

Pantheon Report

Generated at 2018-05-30 23:34:05 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

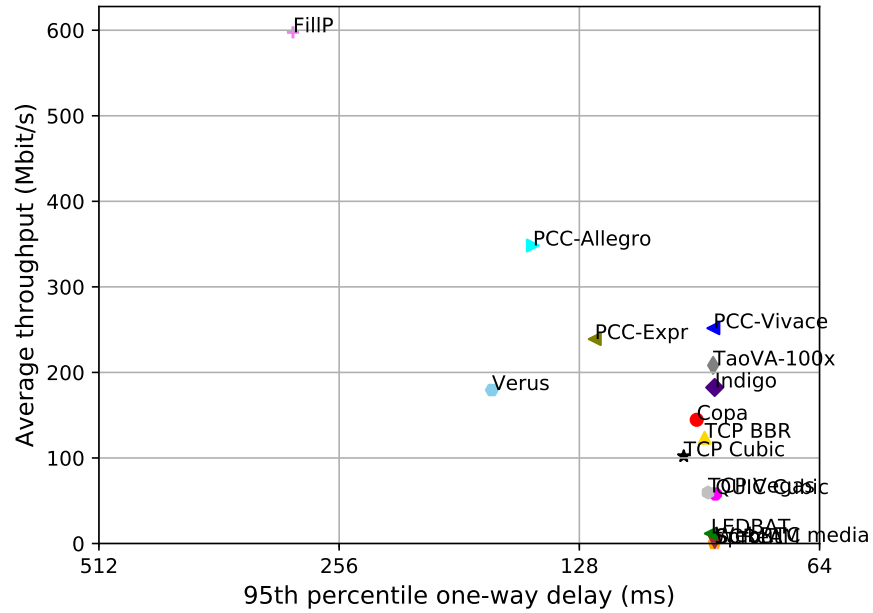
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

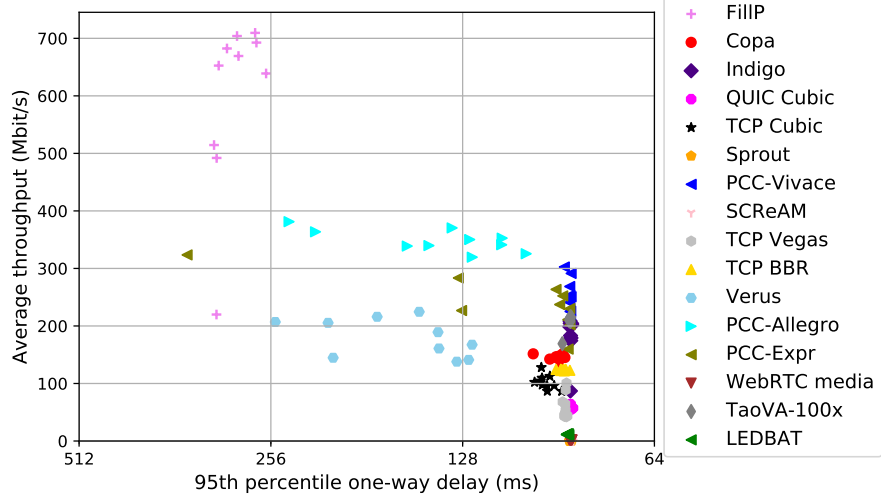
Git summary:

```
branch: master @ 227fdf9a3757f17b88537cceed5743a33037a3d2
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
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	123.62	89.17	0.62
Copa	10	144.62	91.23	0.58
TCP Cubic	10	102.04	94.71	0.47
FillP	10	597.57	292.48	2.21
Indigo	9	182.41	86.62	0.61
LEDBAT	10	11.67	87.59	1.17
PCC-Allegro	10	348.32	146.36	0.99
PCC-Expr	10	238.98	122.44	2.54
QUIC Cubic	9	57.92	86.43	0.82
SCReAM	10	0.22	86.38	0.56
Sprout	10	0.27	86.68	0.55
TaoVA-100x	10	208.21	87.01	0.63
TCP Vegas	10	59.63	88.31	0.61
Verus	10	179.42	164.76	0.95
PCC-Vivace	10	251.67	86.96	0.69
WebRTC media	10	1.86	86.59	0.73

Run 1: Statistics of TCP BBR

Start at: 2018-05-30 18:57:11

End at: 2018-05-30 18:57:41

Local clock offset: 6.364 ms

Remote clock offset: 0.037 ms

Below is generated by plot.py at 2018-05-30 22:24:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 123.49 Mbit/s

95th percentile per-packet one-way delay: 89.566 ms

Loss rate: 0.60%

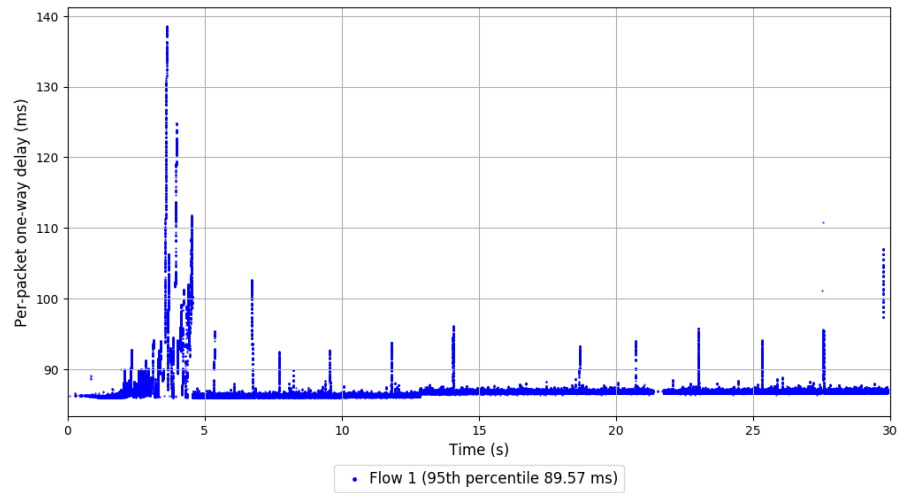
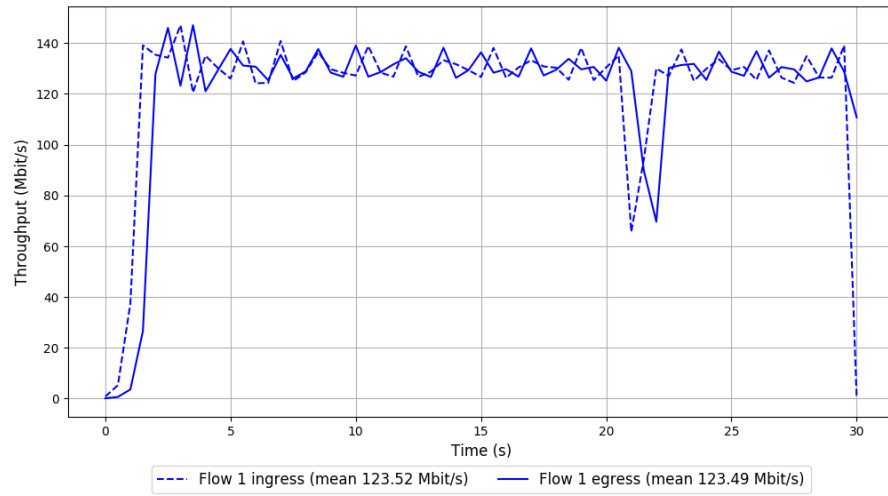
-- Flow 1:

Average throughput: 123.49 Mbit/s

95th percentile per-packet one-way delay: 89.566 ms

Loss rate: 0.60%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-05-30 19:17:16

End at: 2018-05-30 19:17:46

Local clock offset: 5.469 ms

Remote clock offset: 0.082 ms

Below is generated by plot.py at 2018-05-30 22:24:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 124.02 Mbit/s

95th percentile per-packet one-way delay: 88.753 ms

Loss rate: 0.60%

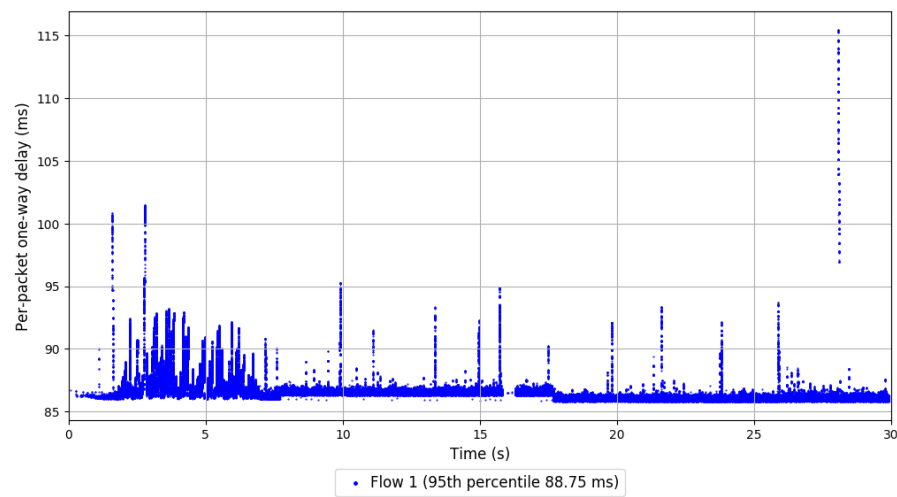
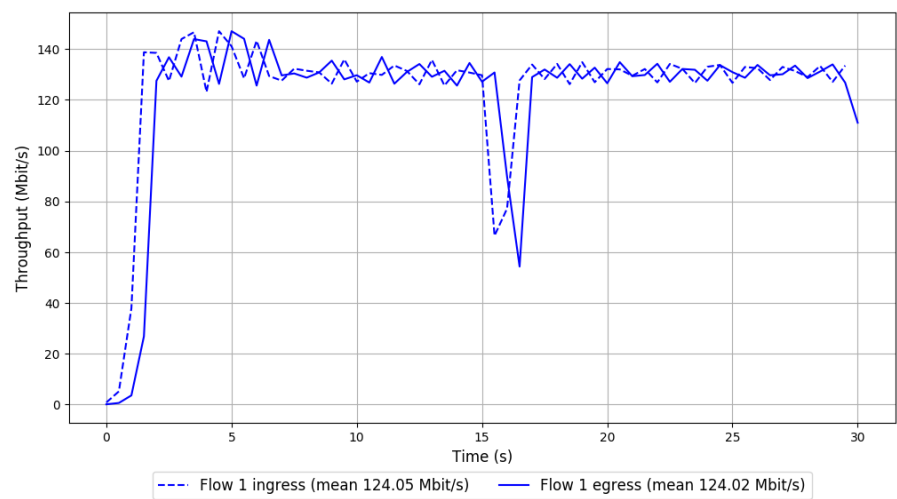
-- Flow 1:

Average throughput: 124.02 Mbit/s

95th percentile per-packet one-way delay: 88.753 ms

Loss rate: 0.60%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-05-30 19:37:39

End at: 2018-05-30 19:38:09

Local clock offset: 2.545 ms

Remote clock offset: 0.12 ms

Below is generated by plot.py at 2018-05-30 22:24:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 124.86 Mbit/s

95th percentile per-packet one-way delay: 89.756 ms

Loss rate: 0.60%

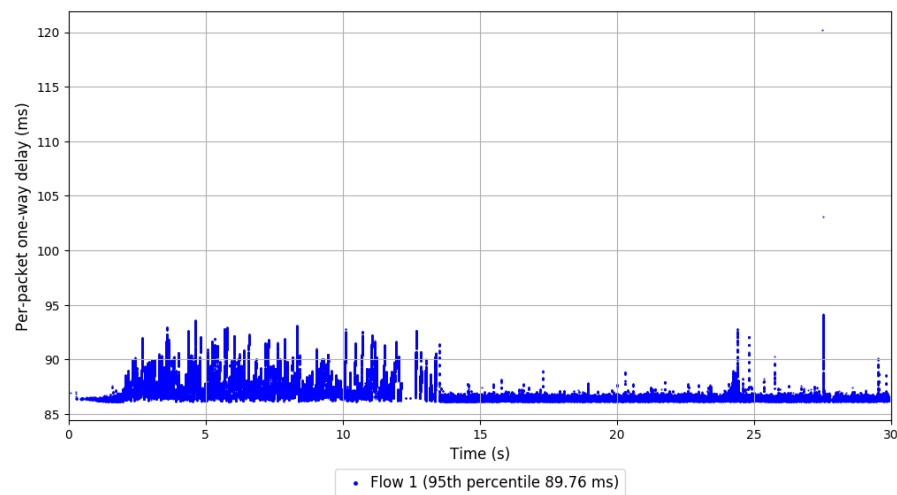
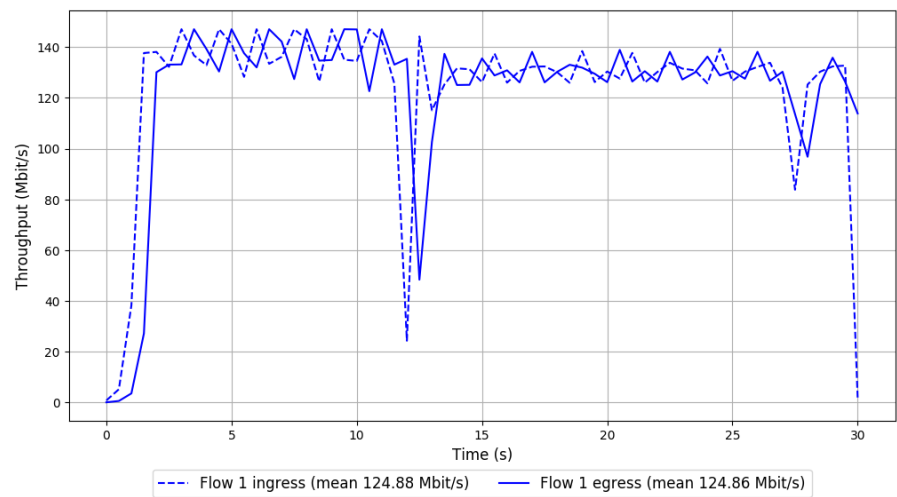
-- Flow 1:

Average throughput: 124.86 Mbit/s

95th percentile per-packet one-way delay: 89.756 ms

Loss rate: 0.60%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-05-30 19:58:13

End at: 2018-05-30 19:58:43

Local clock offset: 2.915 ms

Remote clock offset: 0.12 ms

Below is generated by plot.py at 2018-05-30 22:24:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 124.46 Mbit/s

95th percentile per-packet one-way delay: 91.314 ms

Loss rate: 0.67%

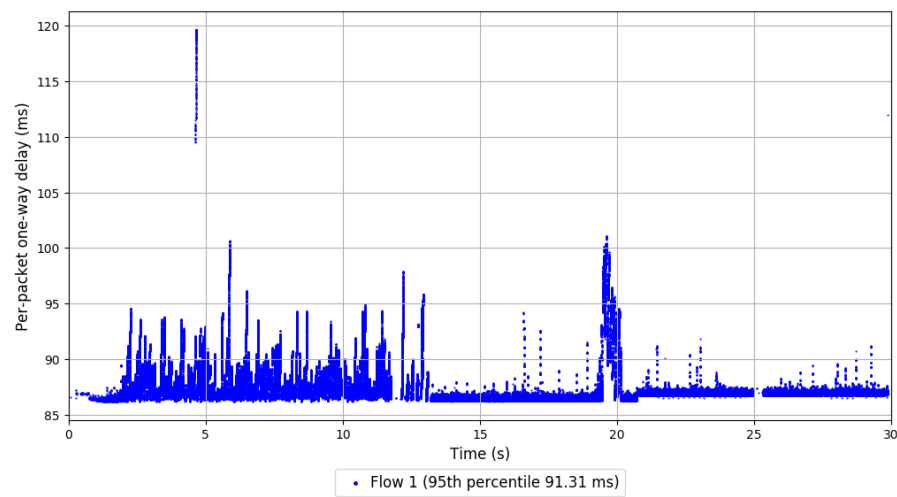
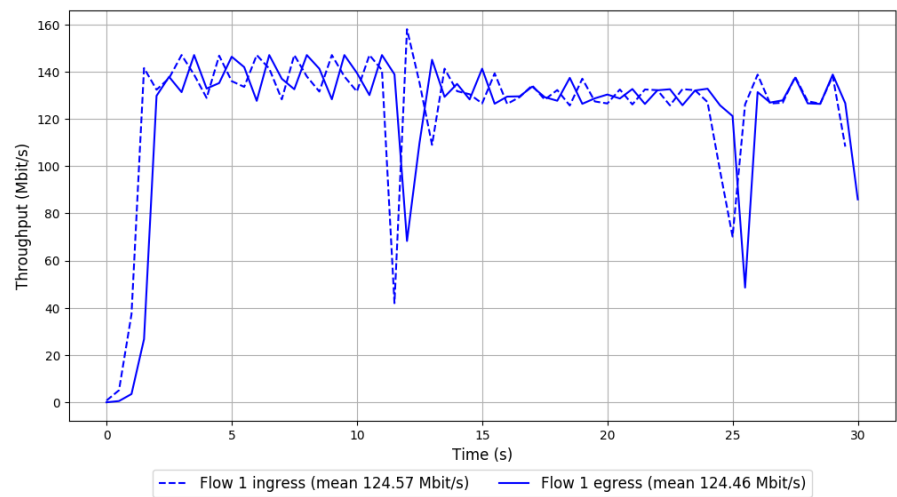
-- Flow 1:

Average throughput: 124.46 Mbit/s

95th percentile per-packet one-way delay: 91.314 ms

Loss rate: 0.67%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-05-30 20:18:46

End at: 2018-05-30 20:19:16

Local clock offset: 0.841 ms

Remote clock offset: 0.134 ms

Below is generated by plot.py at 2018-05-30 22:24:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 124.63 Mbit/s

95th percentile per-packet one-way delay: 88.176 ms

Loss rate: 0.66%

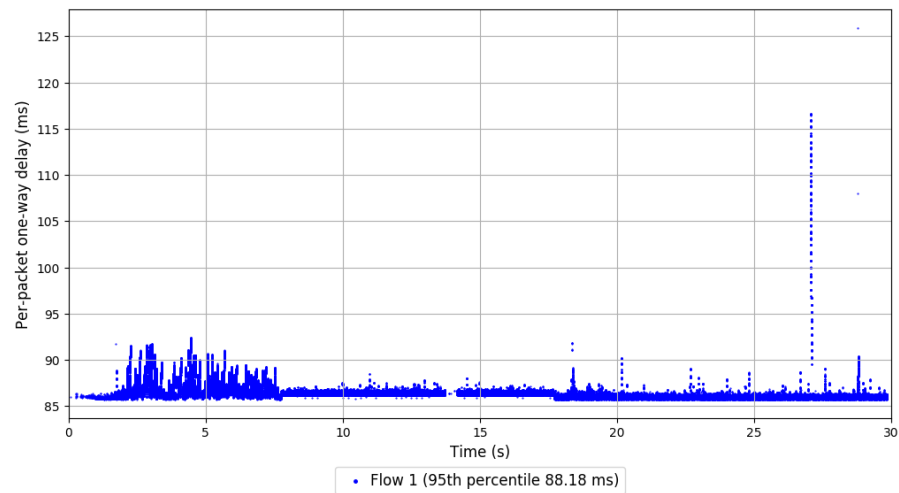
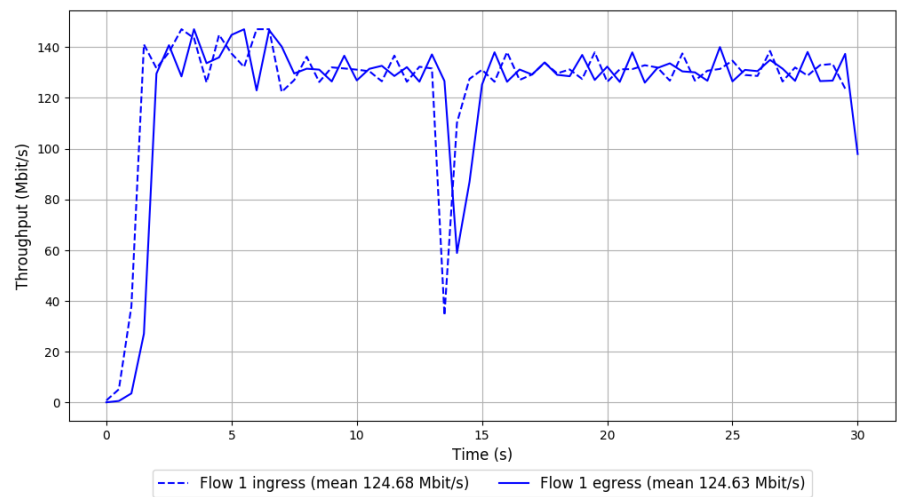
-- Flow 1:

Average throughput: 124.63 Mbit/s

95th percentile per-packet one-way delay: 88.176 ms

Loss rate: 0.66%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-05-30 20:39:17

End at: 2018-05-30 20:39:47

Local clock offset: 0.768 ms

Remote clock offset: 0.154 ms

Below is generated by plot.py at 2018-05-30 22:24:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 122.68 Mbit/s

95th percentile per-packet one-way delay: 89.819 ms

Loss rate: 0.67%

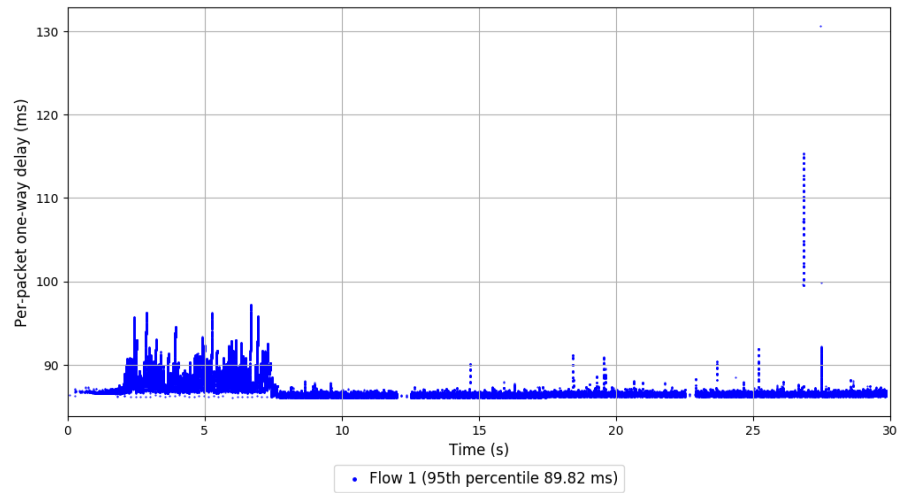
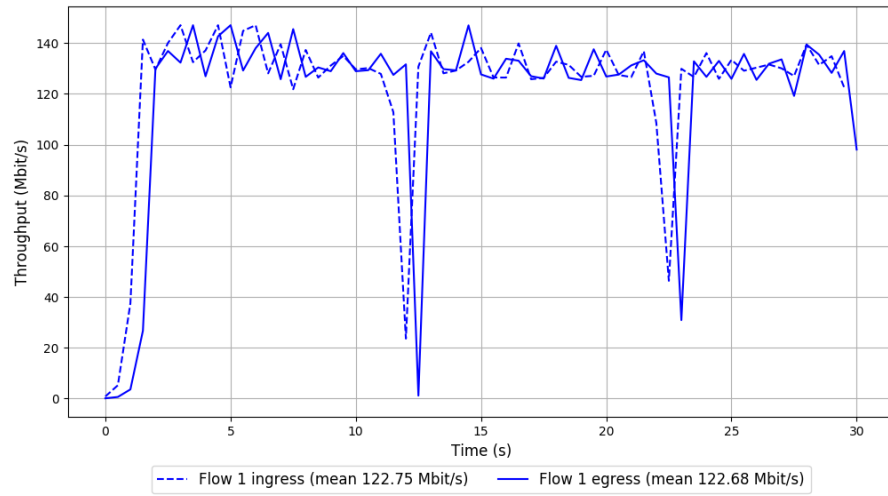
-- Flow 1:

Average throughput: 122.68 Mbit/s

95th percentile per-packet one-way delay: 89.819 ms

Loss rate: 0.67%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-05-30 20:59:35

End at: 2018-05-30 21:00:05

Local clock offset: 0.755 ms

Remote clock offset: 0.244 ms

Below is generated by plot.py at 2018-05-30 22:24:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 122.69 Mbit/s

95th percentile per-packet one-way delay: 89.836 ms

Loss rate: 0.60%

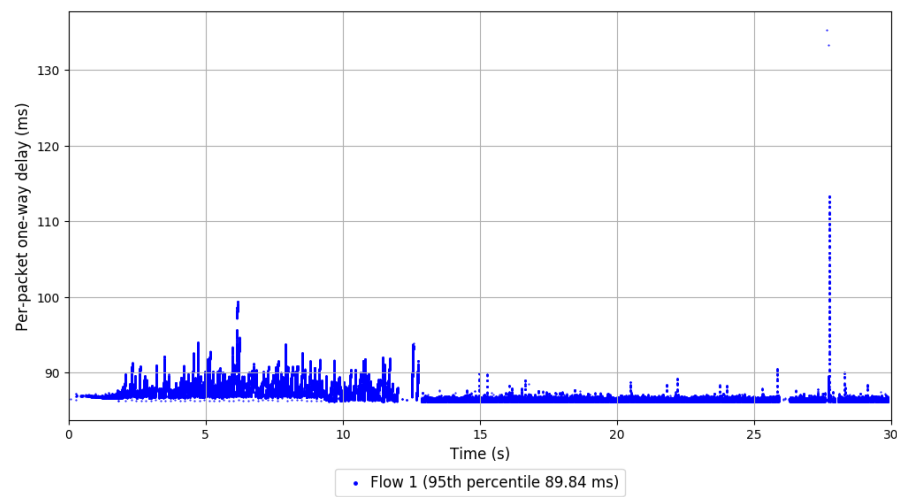
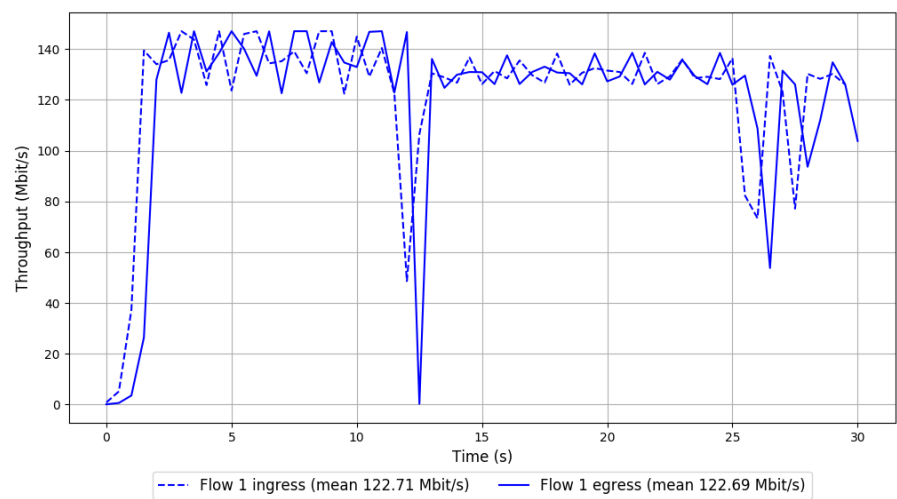
-- Flow 1:

Average throughput: 122.69 Mbit/s

95th percentile per-packet one-way delay: 89.836 ms

Loss rate: 0.60%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-05-30 21:20:05

End at: 2018-05-30 21:20:35

Local clock offset: 0.835 ms

Remote clock offset: 0.253 ms

Below is generated by plot.py at 2018-05-30 22:24:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 124.54 Mbit/s

95th percentile per-packet one-way delay: 88.952 ms

Loss rate: 0.59%

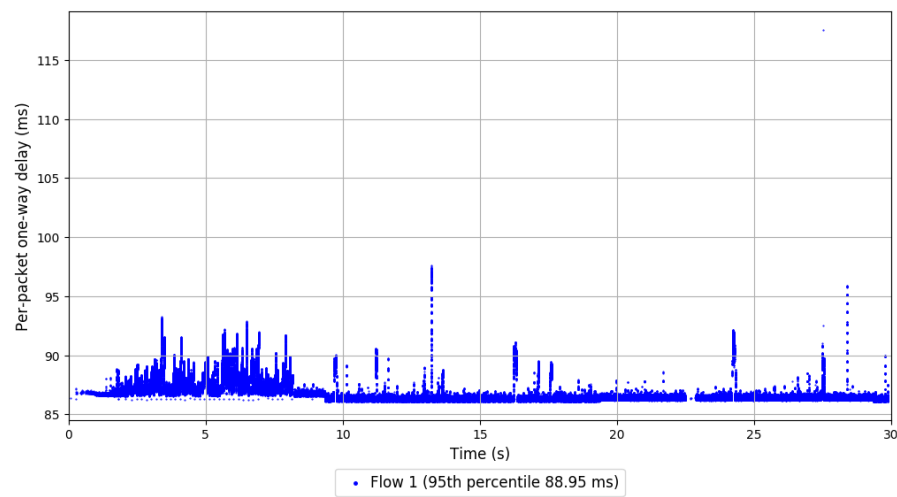
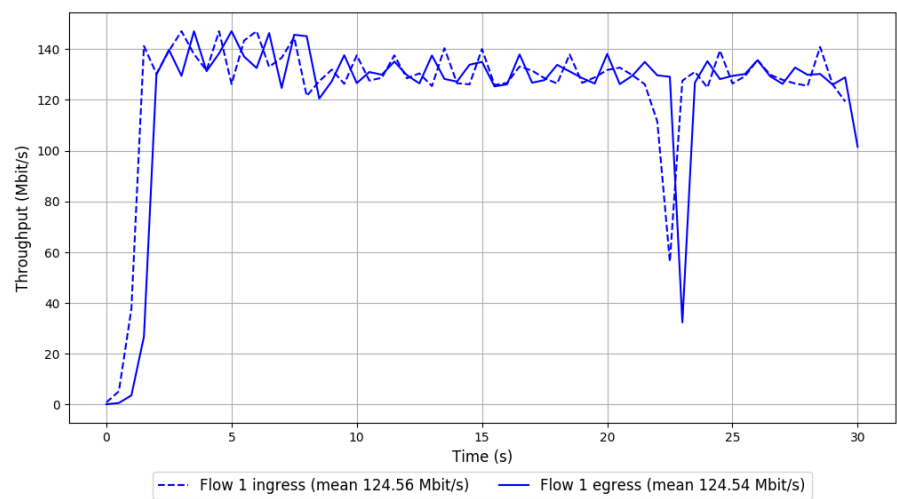
-- Flow 1:

Average throughput: 124.54 Mbit/s

95th percentile per-packet one-way delay: 88.952 ms

Loss rate: 0.59%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-05-30 21:40:34

End at: 2018-05-30 21:41:04

Local clock offset: 0.769 ms

Remote clock offset: 0.242 ms

Below is generated by plot.py at 2018-05-30 22:26:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 121.93 Mbit/s

95th percentile per-packet one-way delay: 88.636 ms

Loss rate: 0.60%

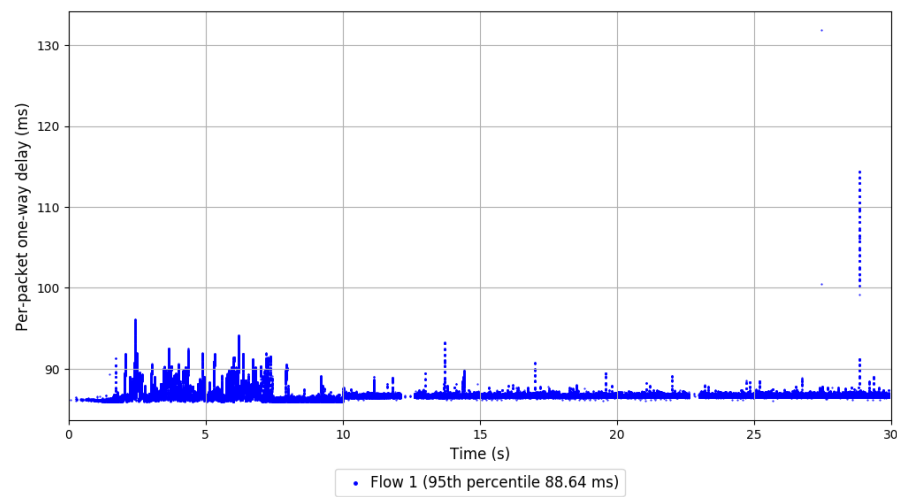
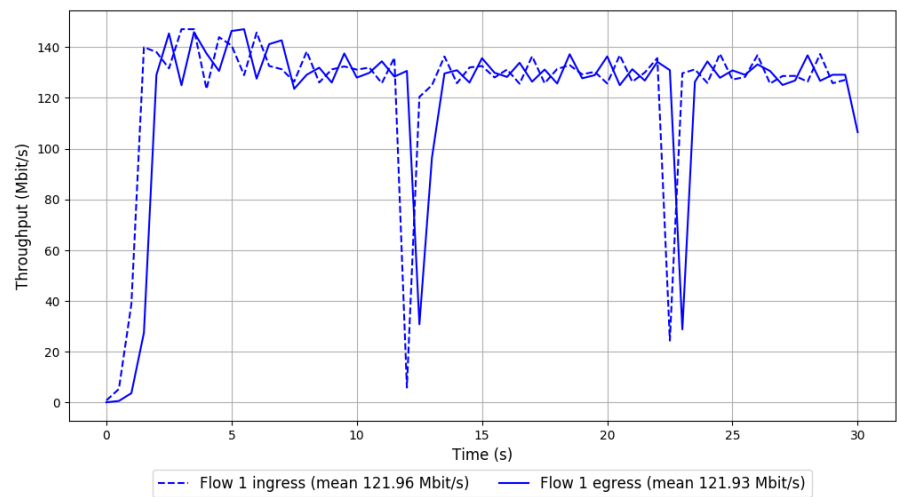
-- Flow 1:

Average throughput: 121.93 Mbit/s

95th percentile per-packet one-way delay: 88.636 ms

Loss rate: 0.60%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-05-30 22:00:59

End at: 2018-05-30 22:01:29

Local clock offset: -0.195 ms

Remote clock offset: 0.275 ms

Below is generated by plot.py at 2018-05-30 22:26:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 122.94 Mbit/s

95th percentile per-packet one-way delay: 86.882 ms

Loss rate: 0.60%

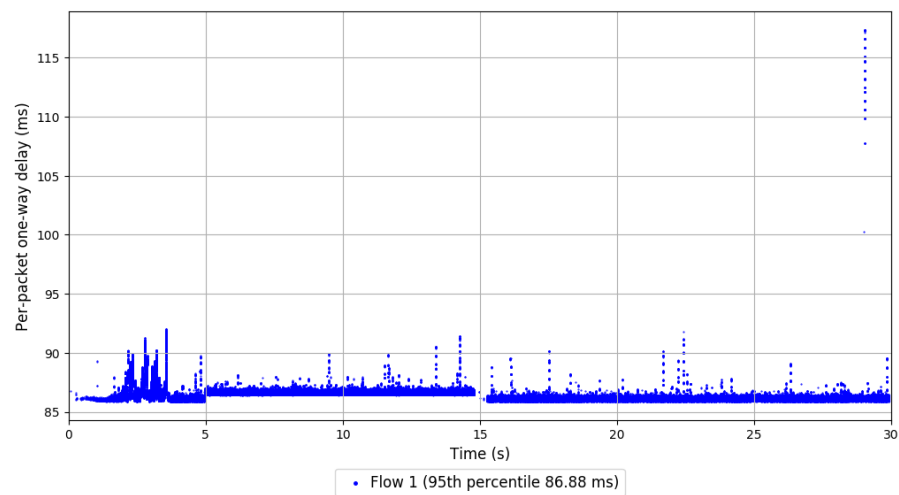
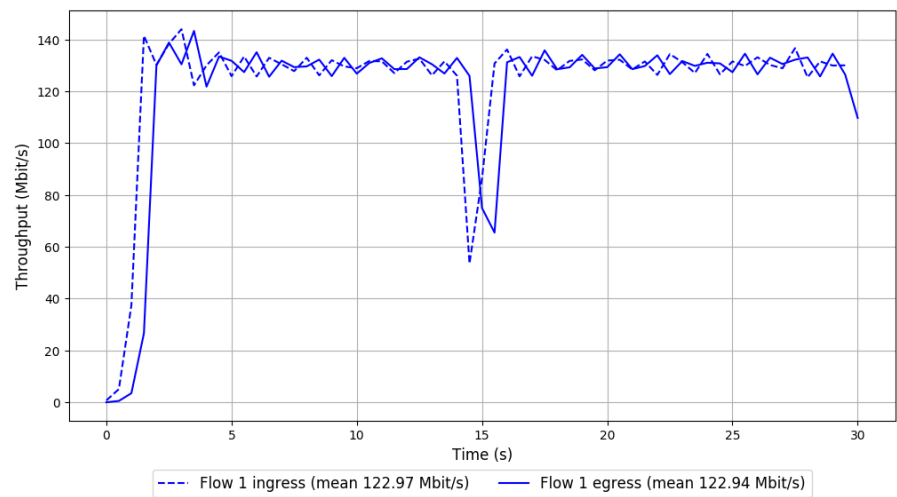
-- Flow 1:

Average throughput: 122.94 Mbit/s

95th percentile per-packet one-way delay: 86.882 ms

Loss rate: 0.60%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-05-30 19:03:28

End at: 2018-05-30 19:03:58

Local clock offset: 5.027 ms

Remote clock offset: 0.055 ms

Below is generated by plot.py at 2018-05-30 22:29:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 147.32 Mbit/s

95th percentile per-packet one-way delay: 90.530 ms

Loss rate: 0.37%

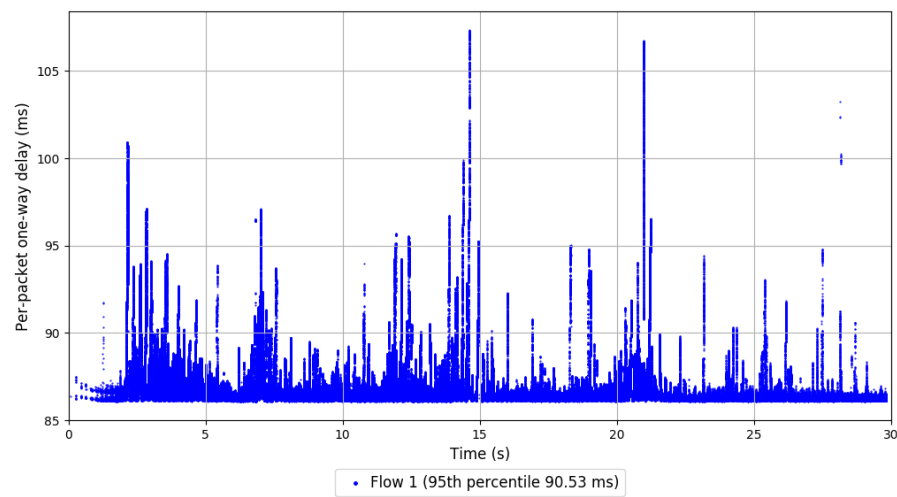
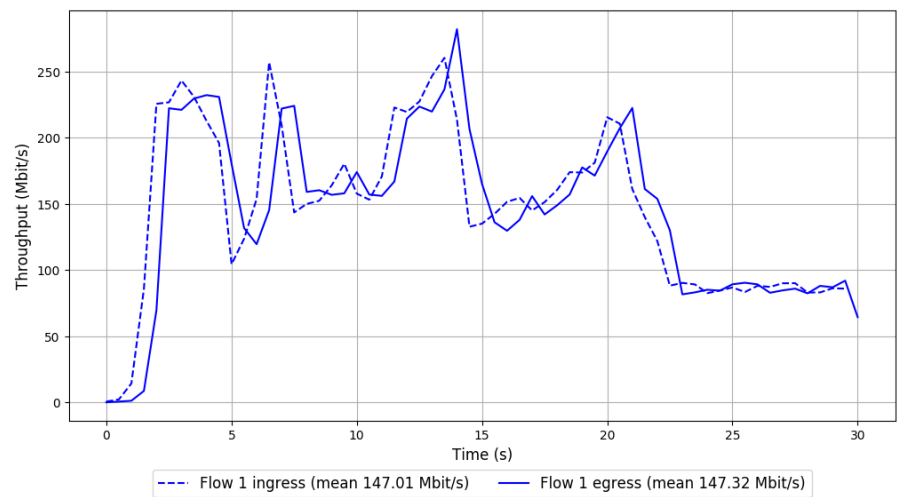
-- Flow 1:

Average throughput: 147.32 Mbit/s

95th percentile per-packet one-way delay: 90.530 ms

Loss rate: 0.37%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-05-30 19:23:32

End at: 2018-05-30 19:24:02

Local clock offset: 6.238 ms

Remote clock offset: 0.065 ms

Below is generated by plot.py at 2018-05-30 22:29:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.38 Mbit/s

95th percentile per-packet one-way delay: 89.181 ms

Loss rate: 0.47%

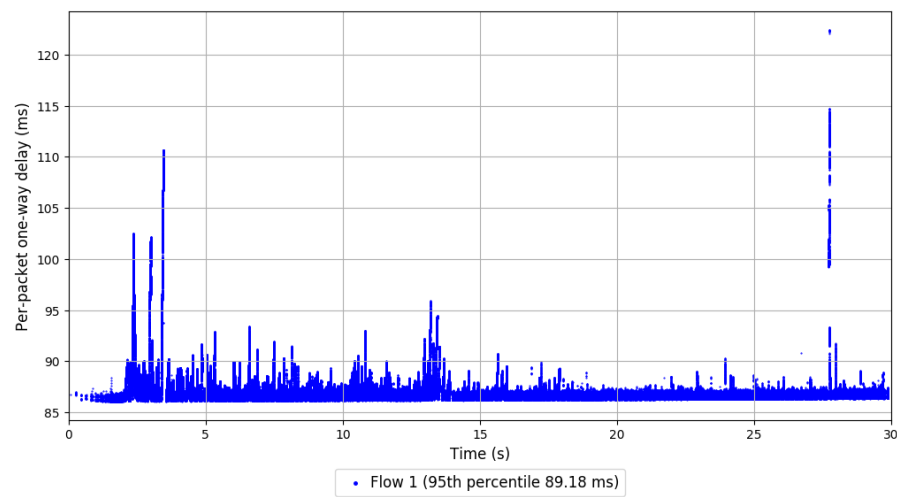
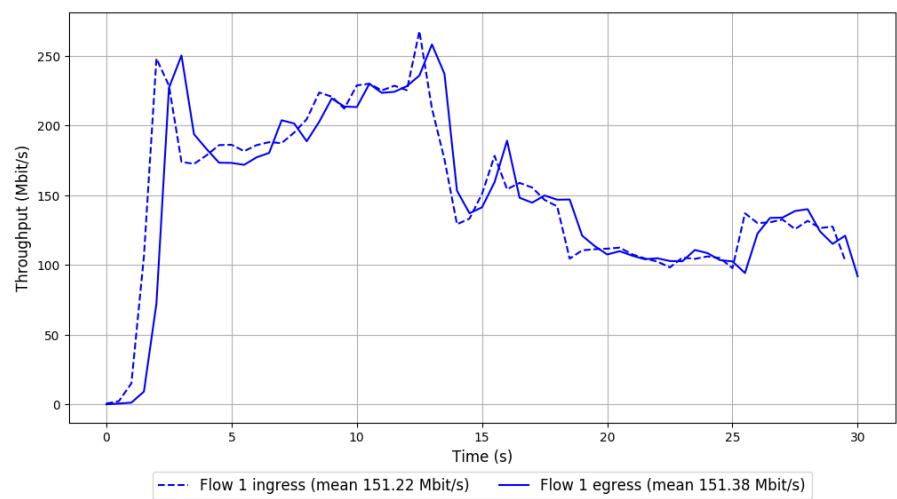
-- Flow 1:

Average throughput: 151.38 Mbit/s

95th percentile per-packet one-way delay: 89.181 ms

Loss rate: 0.47%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-05-30 19:43:58

End at: 2018-05-30 19:44:28

Local clock offset: 1.936 ms

Remote clock offset: 0.102 ms

Below is generated by plot.py at 2018-05-30 22:29:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.42 Mbit/s

95th percentile per-packet one-way delay: 89.142 ms

Loss rate: 1.12%

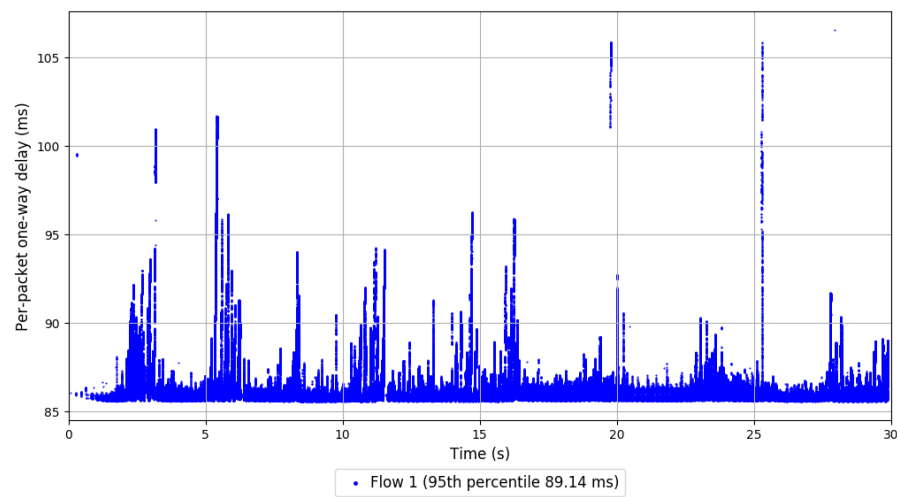
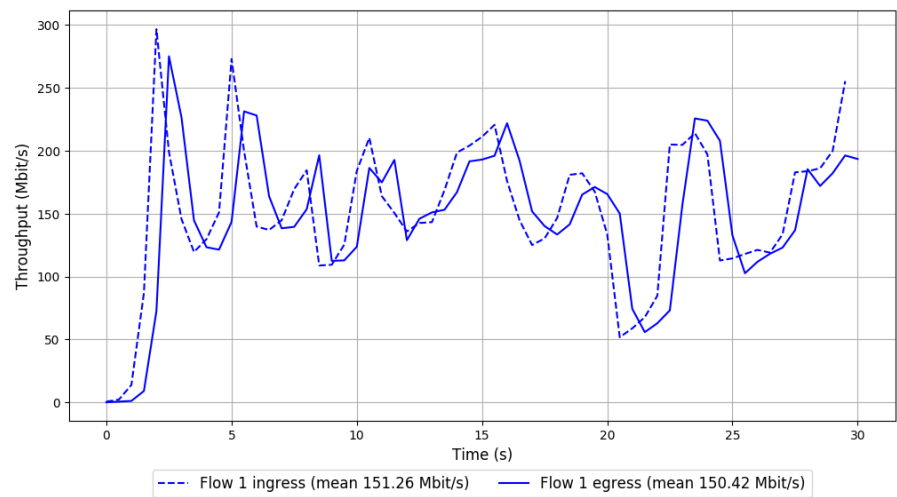
-- Flow 1:

Average throughput: 150.42 Mbit/s

95th percentile per-packet one-way delay: 89.142 ms

Loss rate: 1.12%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-05-30 20:04:32

End at: 2018-05-30 20:05:02

Local clock offset: 1.544 ms

Remote clock offset: 0.093 ms

Below is generated by plot.py at 2018-05-30 22:29:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 145.20 Mbit/s

95th percentile per-packet one-way delay: 88.451 ms

Loss rate: 0.58%

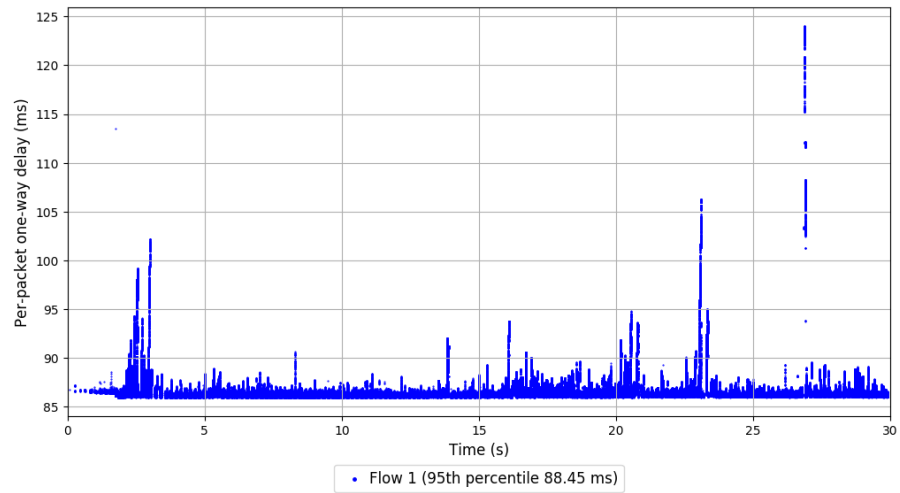
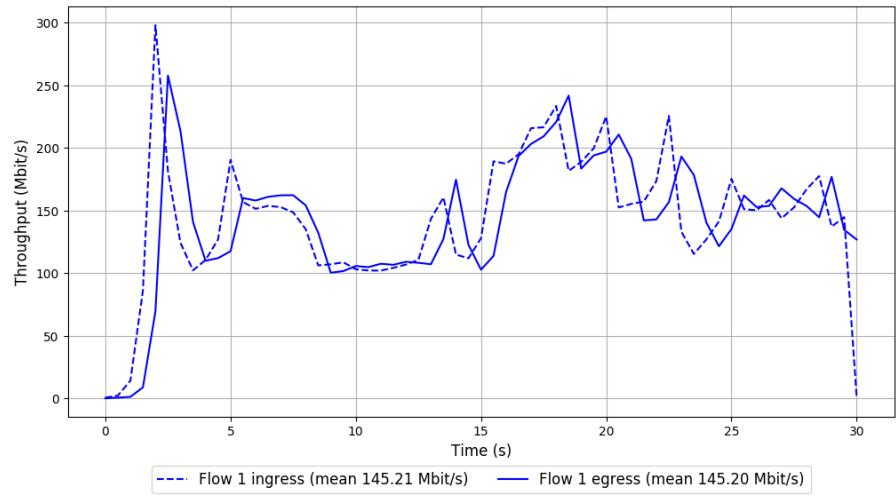
-- Flow 1:

Average throughput: 145.20 Mbit/s

95th percentile per-packet one-way delay: 88.451 ms

Loss rate: 0.58%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-05-30 20:25:03

End at: 2018-05-30 20:25:33

Local clock offset: 1.128 ms

Remote clock offset: 0.181 ms

Below is generated by plot.py at 2018-05-30 22:29:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 141.61 Mbit/s

95th percentile per-packet one-way delay: 90.115 ms

Loss rate: 0.61%

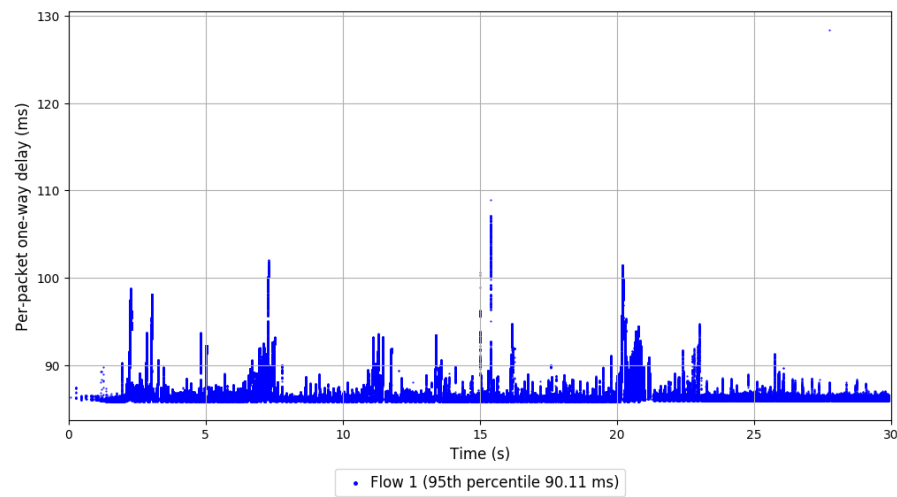
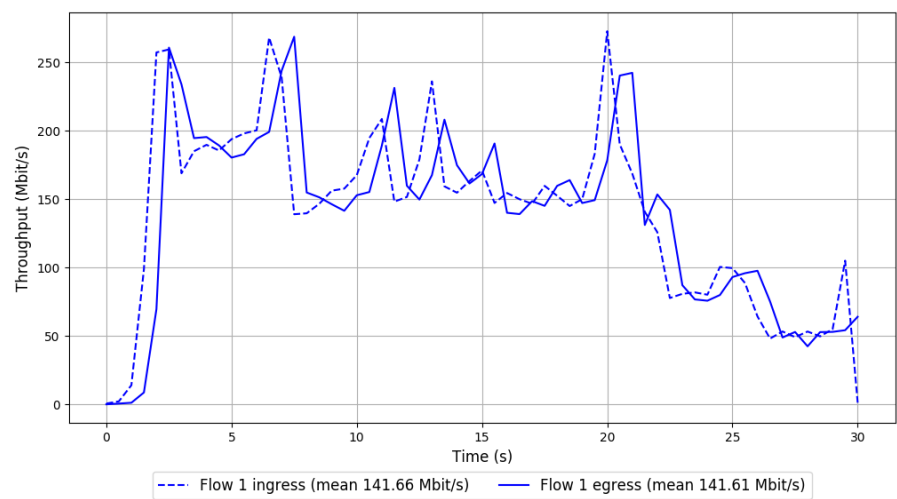
-- Flow 1:

Average throughput: 141.61 Mbit/s

95th percentile per-packet one-way delay: 90.115 ms

Loss rate: 0.61%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-05-30 20:45:38

End at: 2018-05-30 20:46:08

Local clock offset: 0.598 ms

Remote clock offset: 0.135 ms

Below is generated by plot.py at 2018-05-30 22:29:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.56 Mbit/s

95th percentile per-packet one-way delay: 99.186 ms

Loss rate: 0.67%

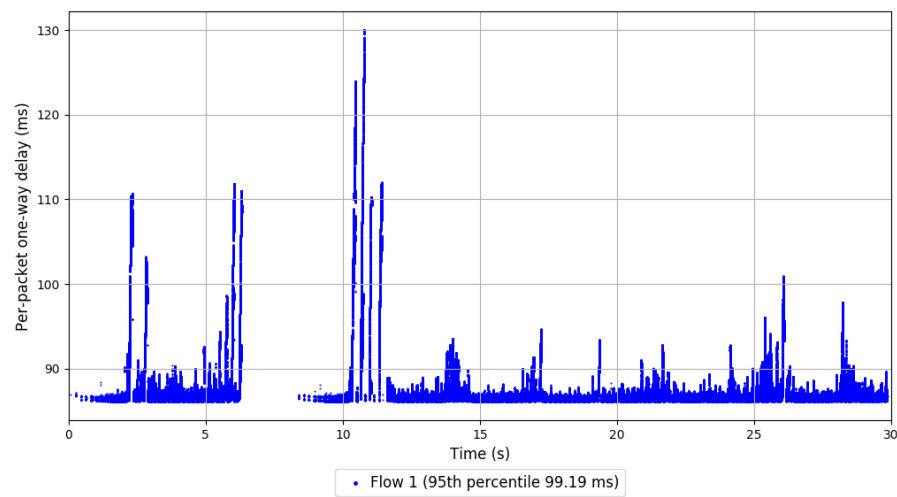
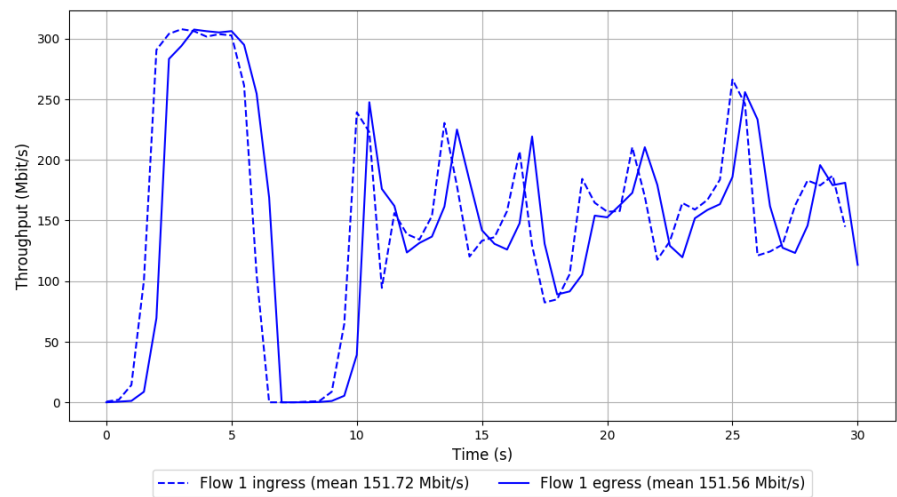
-- Flow 1:

Average throughput: 151.56 Mbit/s

95th percentile per-packet one-way delay: 99.186 ms

Loss rate: 0.67%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-05-30 21:05:54

End at: 2018-05-30 21:06:24

Local clock offset: 0.445 ms

Remote clock offset: 0.159 ms

Below is generated by plot.py at 2018-05-30 22:31:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 144.38 Mbit/s

95th percentile per-packet one-way delay: 90.973 ms

Loss rate: 0.48%

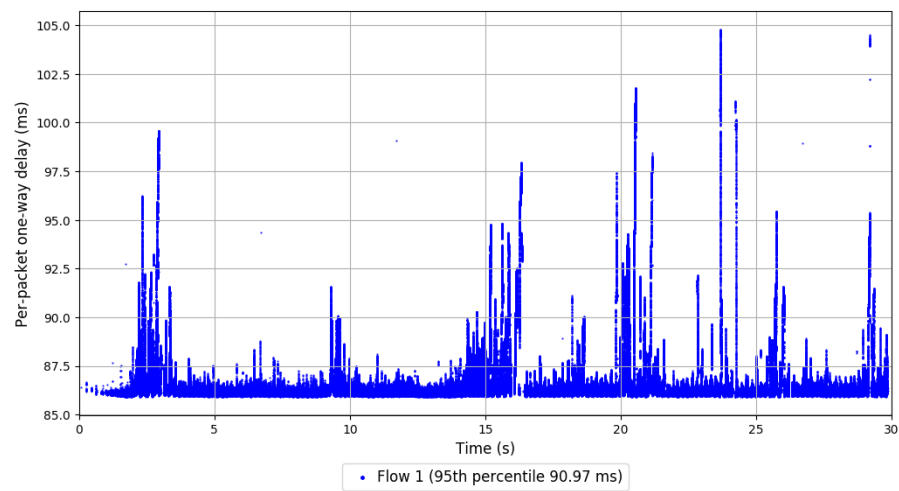
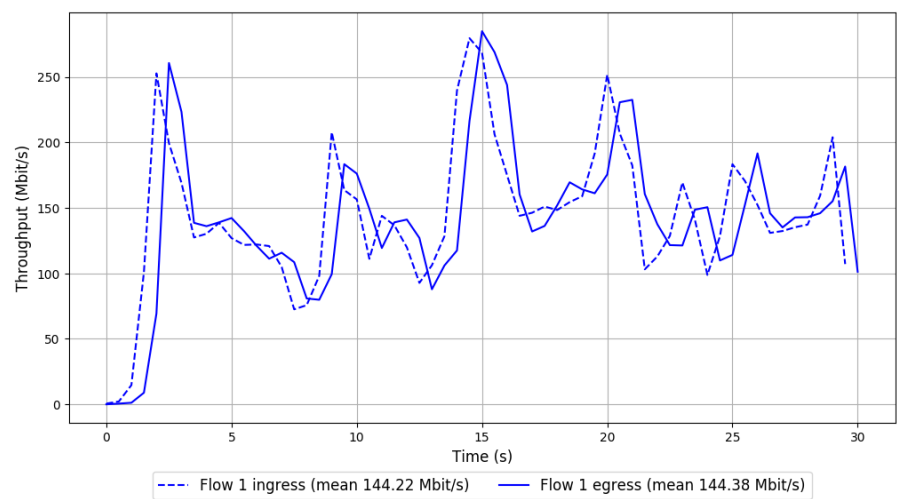
-- Flow 1:

Average throughput: 144.38 Mbit/s

95th percentile per-packet one-way delay: 90.973 ms

Loss rate: 0.48%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-05-30 21:26:22

End at: 2018-05-30 21:26:52

Local clock offset: 0.628 ms

Remote clock offset: 0.223 ms

Below is generated by plot.py at 2018-05-30 22:31:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.41 Mbit/s

95th percentile per-packet one-way delay: 91.358 ms

Loss rate: 0.38%

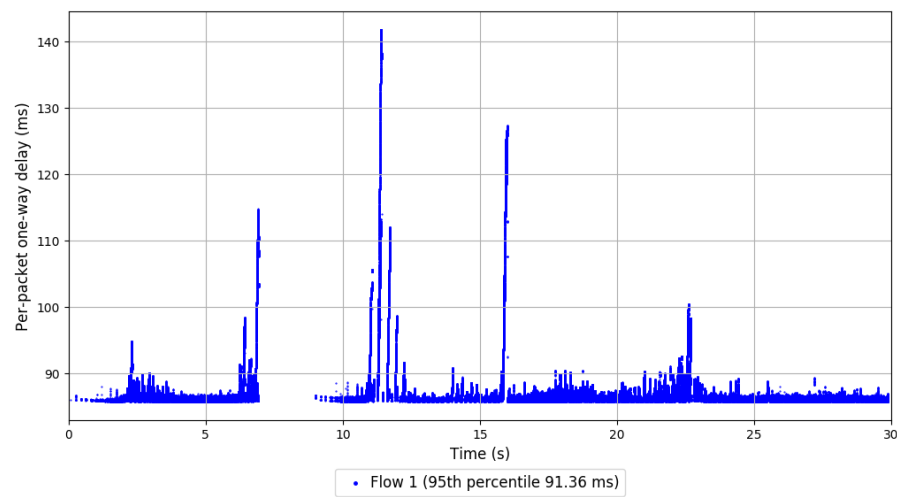
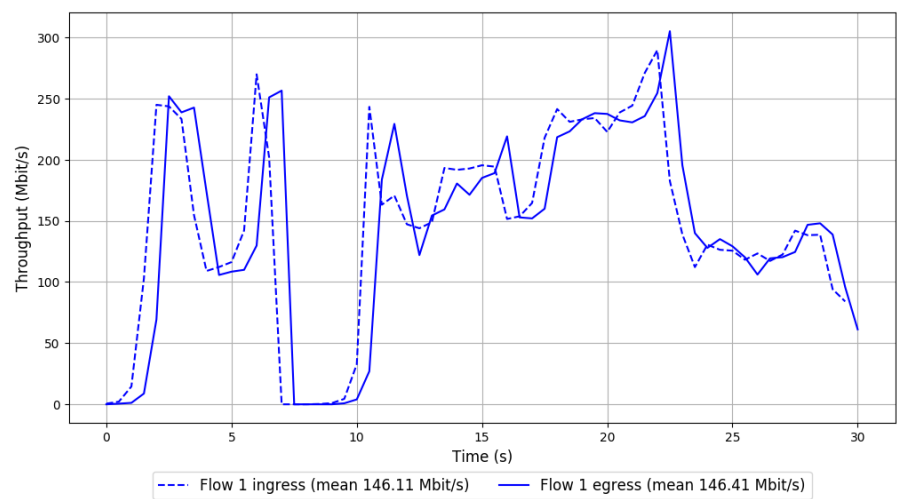
-- Flow 1:

Average throughput: 146.41 Mbit/s

95th percentile per-packet one-way delay: 91.358 ms

Loss rate: 0.38%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-05-30 21:46:54

End at: 2018-05-30 21:47:24

Local clock offset: 0.256 ms

Remote clock offset: 0.242 ms

Below is generated by plot.py at 2018-05-30 22:33:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 125.53 Mbit/s

95th percentile per-packet one-way delay: 89.956 ms

Loss rate: 0.53%

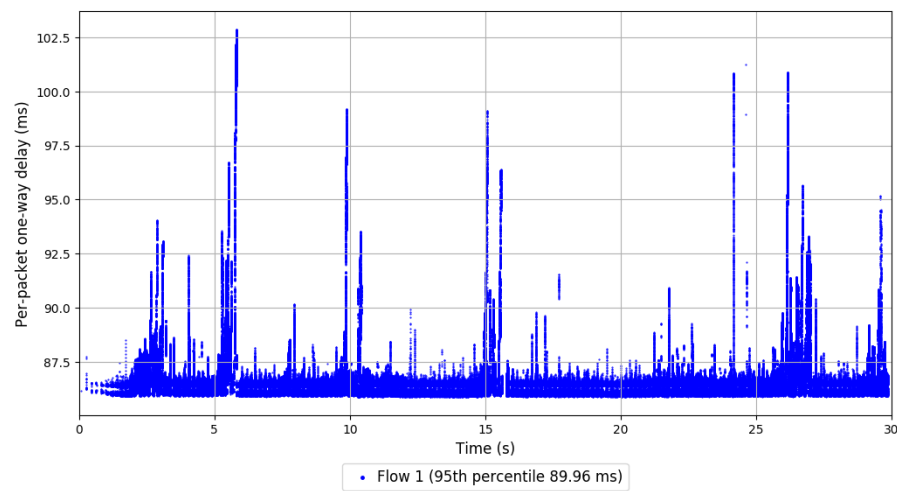
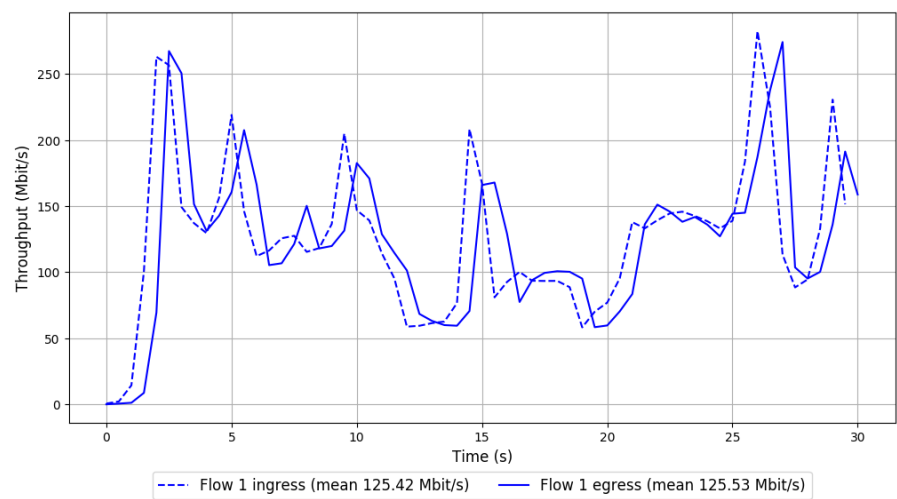
-- Flow 1:

Average throughput: 125.53 Mbit/s

95th percentile per-packet one-way delay: 89.956 ms

Loss rate: 0.53%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-05-30 22:07:20

End at: 2018-05-30 22:07:50

Local clock offset: -0.471 ms

Remote clock offset: 0.269 ms

Below is generated by plot.py at 2018-05-30 22:33:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 142.41 Mbit/s

95th percentile per-packet one-way delay: 93.428 ms

Loss rate: 0.55%

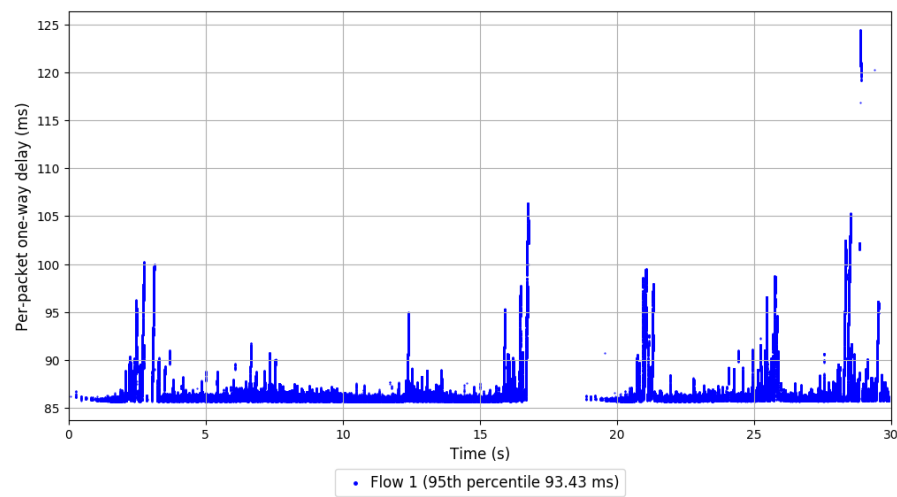
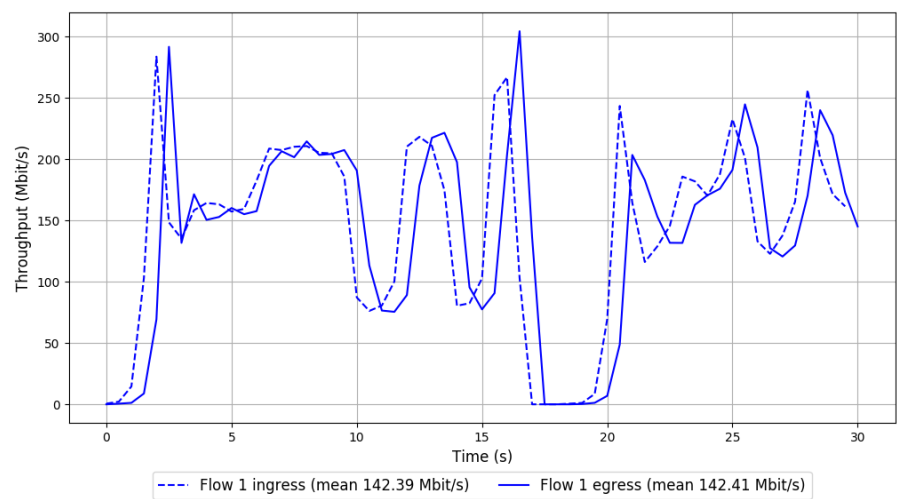
-- Flow 1:

Average throughput: 142.41 Mbit/s

95th percentile per-packet one-way delay: 93.428 ms

Loss rate: 0.55%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-05-30 19:00:57

End at: 2018-05-30 19:01:27

Local clock offset: 5.426 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2018-05-30 22:33:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.51 Mbit/s

95th percentile per-packet one-way delay: 89.475 ms

Loss rate: 0.60%

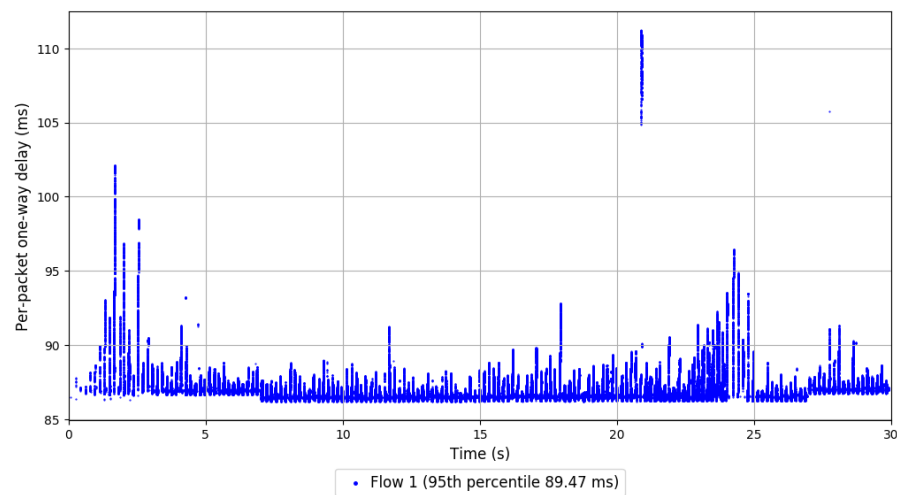
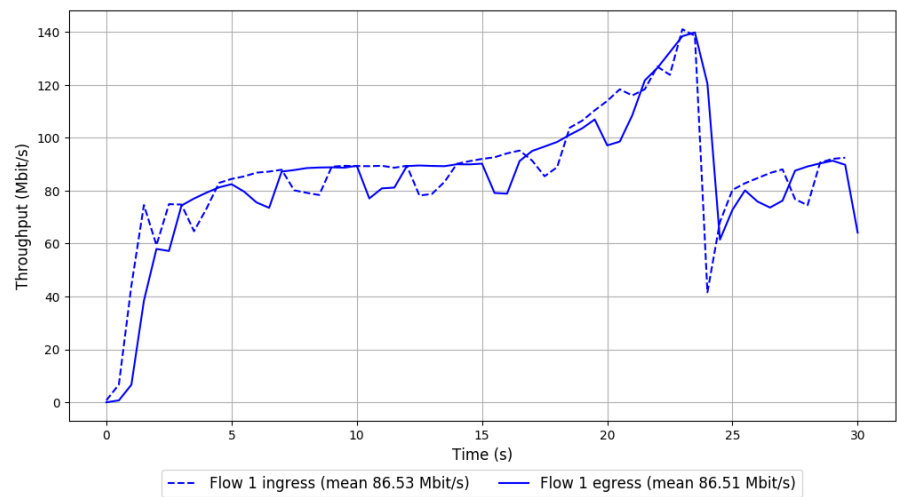
-- Flow 1:

Average throughput: 86.51 Mbit/s

95th percentile per-packet one-way delay: 89.475 ms

Loss rate: 0.60%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-05-30 19:21:01

End at: 2018-05-30 19:21:31

Local clock offset: 5.851 ms

Remote clock offset: 0.075 ms

Below is generated by plot.py at 2018-05-30 22:33:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.43 Mbit/s

95th percentile per-packet one-way delay: 91.946 ms

Loss rate: 0.55%

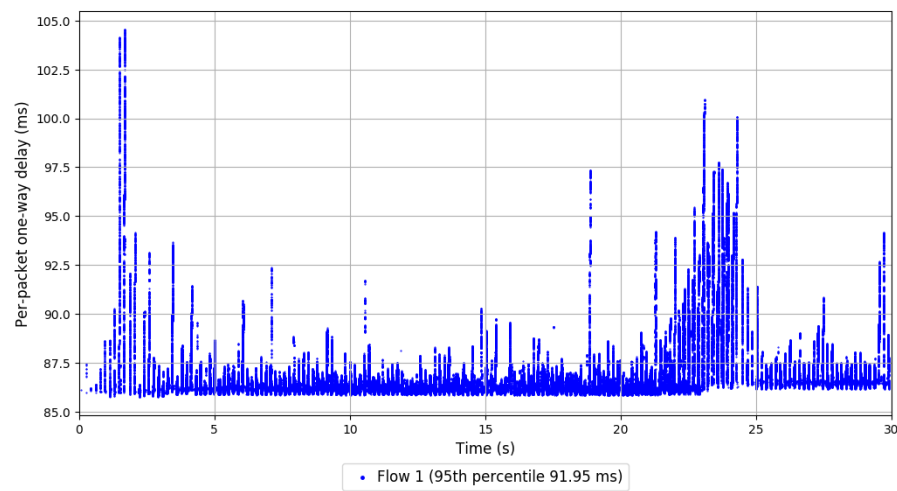
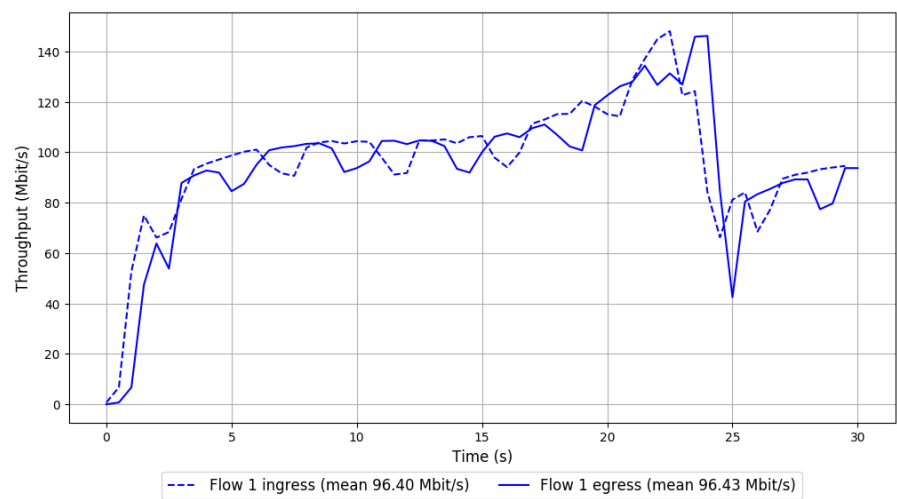
-- Flow 1:

Average throughput: 96.43 Mbit/s

95th percentile per-packet one-way delay: 91.946 ms

Loss rate: 0.55%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-05-30 19:41:25

End at: 2018-05-30 19:41:55

Local clock offset: 2.125 ms

Remote clock offset: 0.107 ms

Below is generated by plot.py at 2018-05-30 22:33:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.65 Mbit/s

95th percentile per-packet one-way delay: 95.993 ms

Loss rate: 0.45%

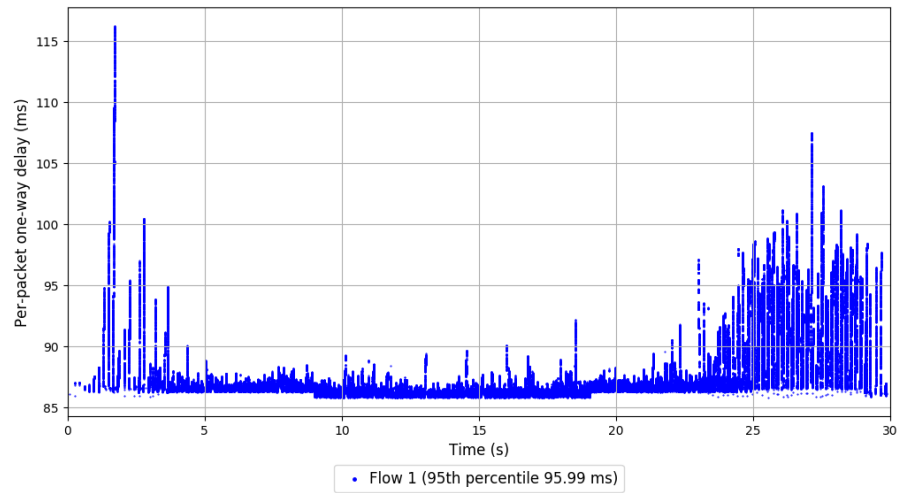
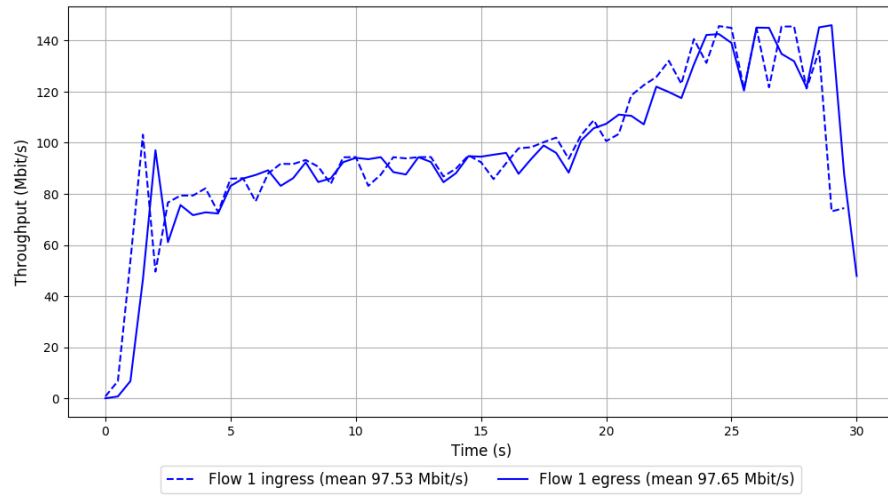
-- Flow 1:

Average throughput: 97.65 Mbit/s

95th percentile per-packet one-way delay: 95.993 ms

Loss rate: 0.45%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-05-30 20:01:59

End at: 2018-05-30 20:02:29

Local clock offset: 1.687 ms

Remote clock offset: 0.128 ms

Below is generated by plot.py at 2018-05-30 22:33:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 112.70 Mbit/s

95th percentile per-packet one-way delay: 93.397 ms

Loss rate: 0.47%

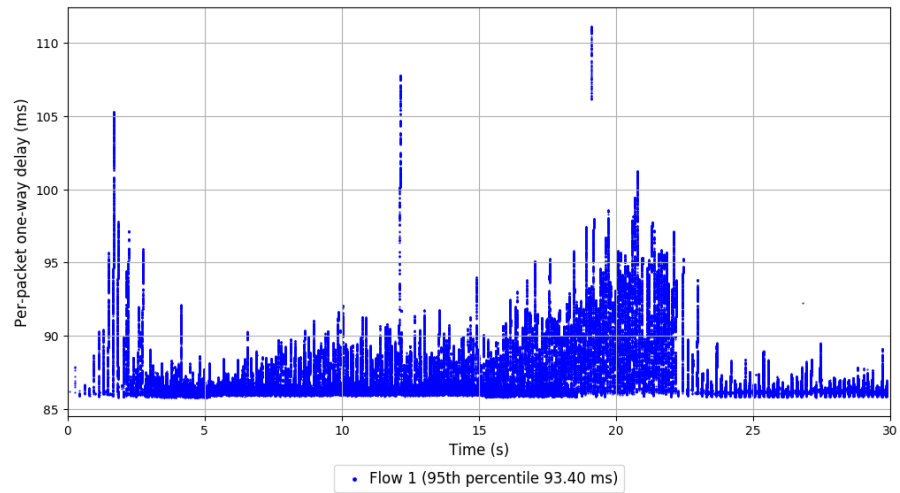
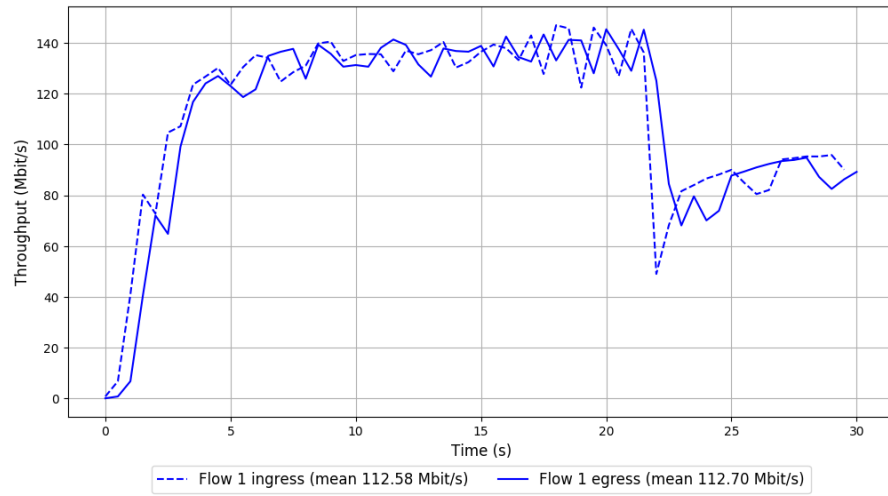
-- Flow 1:

Average throughput: 112.70 Mbit/s

95th percentile per-packet one-way delay: 93.397 ms

Loss rate: 0.47%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-05-30 20:22:30

End at: 2018-05-30 20:23:00

Local clock offset: 1.222 ms

Remote clock offset: 0.208 ms

Below is generated by plot.py at 2018-05-30 22:33:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.06 Mbit/s

95th percentile per-packet one-way delay: 94.344 ms

Loss rate: 0.48%

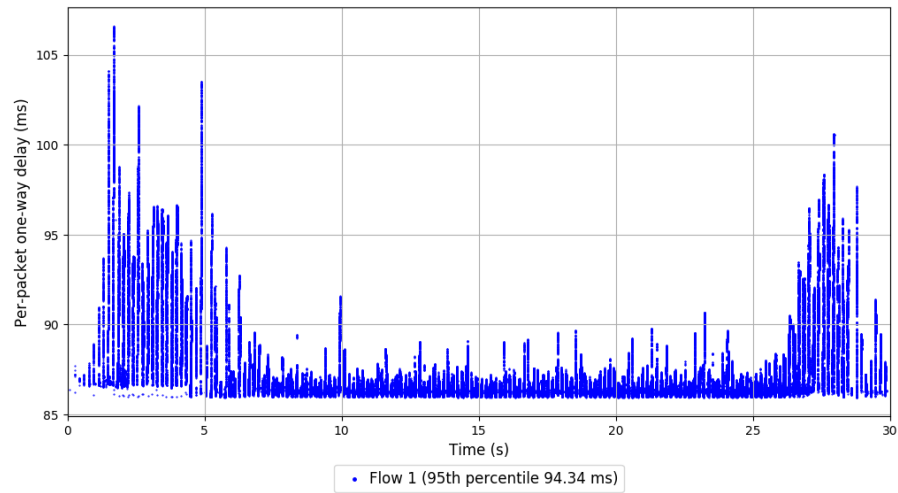
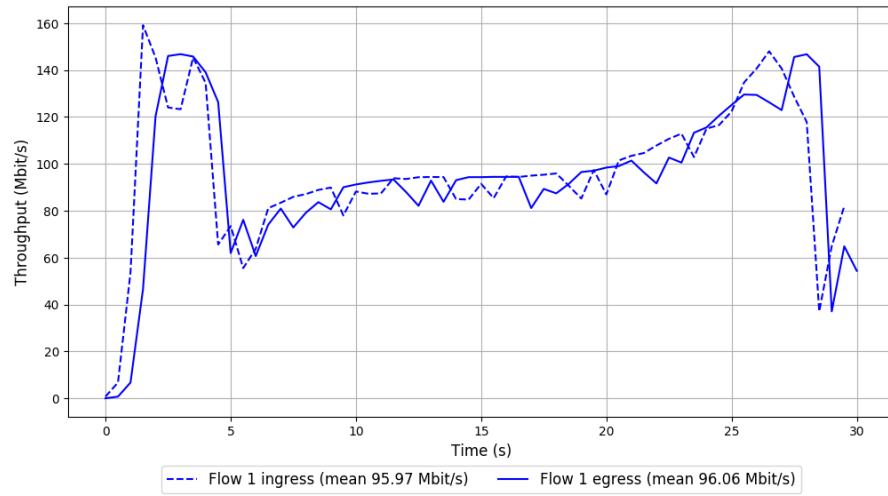
-- Flow 1:

Average throughput: 96.06 Mbit/s

95th percentile per-packet one-way delay: 94.344 ms

Loss rate: 0.48%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-05-30 20:43:05

End at: 2018-05-30 20:43:35

Local clock offset: 0.498 ms

Remote clock offset: 0.185 ms

Below is generated by plot.py at 2018-05-30 22:33:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 109.56 Mbit/s

95th percentile per-packet one-way delay: 96.076 ms

Loss rate: 0.48%

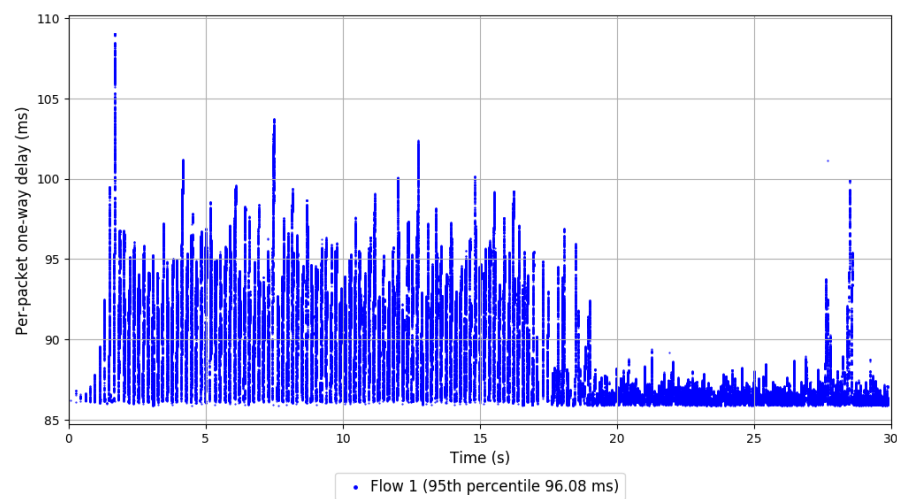
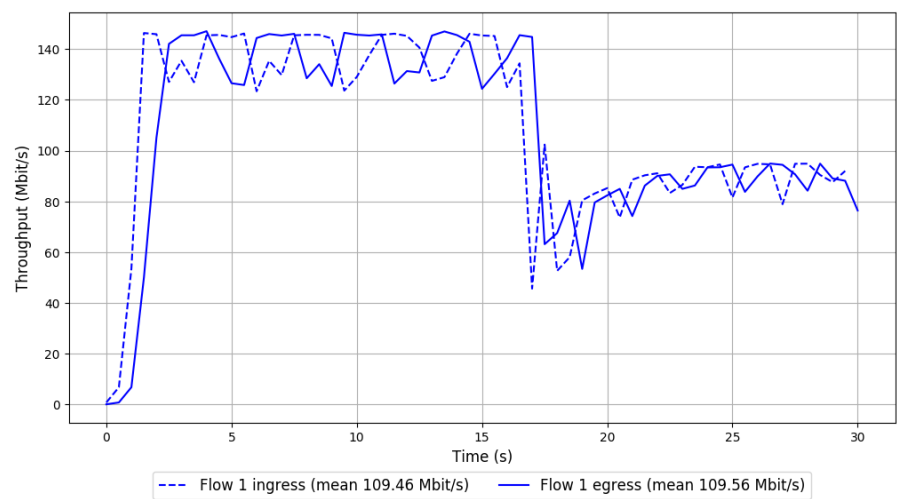
-- Flow 1:

Average throughput: 109.56 Mbit/s

95th percentile per-packet one-way delay: 96.076 ms

Loss rate: 0.48%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-05-30 21:03:21

End at: 2018-05-30 21:03:51

Local clock offset: 0.286 ms

Remote clock offset: 0.209 ms

Below is generated by plot.py at 2018-05-30 22:33:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 127.94 Mbit/s

95th percentile per-packet one-way delay: 96.307 ms

Loss rate: 0.35%

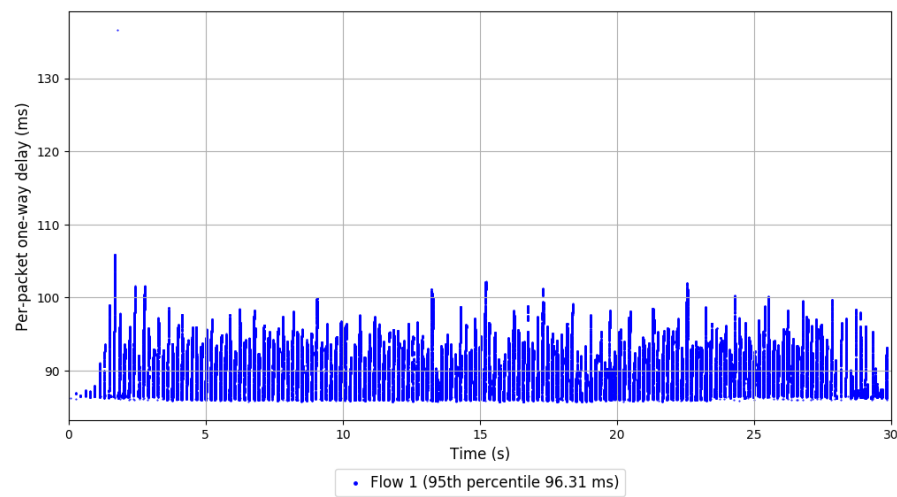
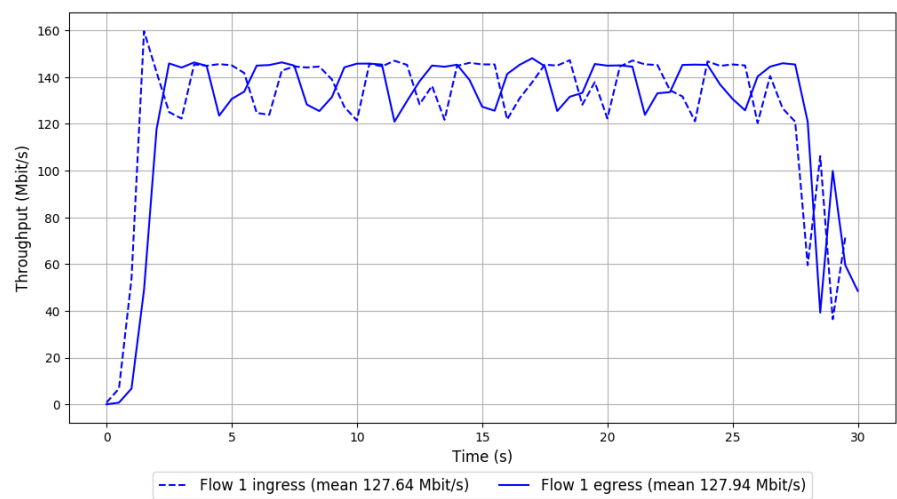
-- Flow 1:

Average throughput: 127.94 Mbit/s

95th percentile per-packet one-way delay: 96.307 ms

Loss rate: 0.35%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-05-30 21:23:49

End at: 2018-05-30 21:24:19

Local clock offset: 1.013 ms

Remote clock offset: 0.232 ms

Below is generated by plot.py at 2018-05-30 22:33:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.49 Mbit/s

95th percentile per-packet one-way delay: 96.620 ms

Loss rate: 0.36%

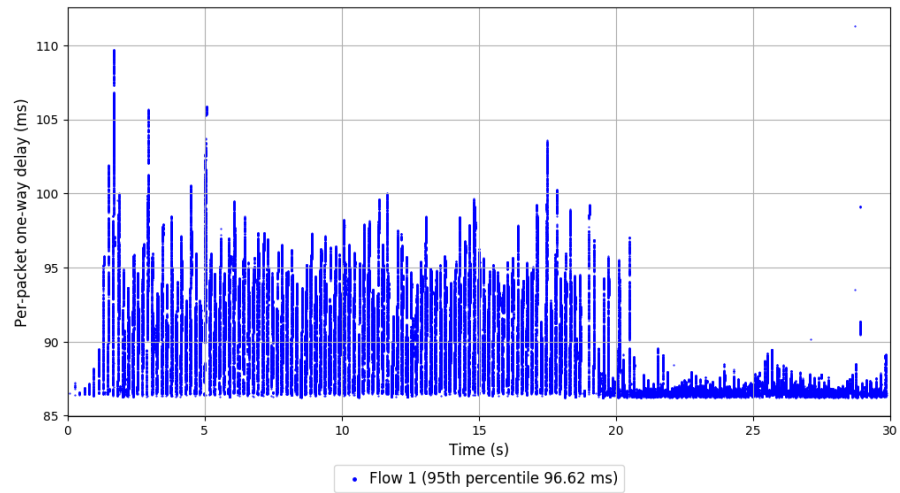
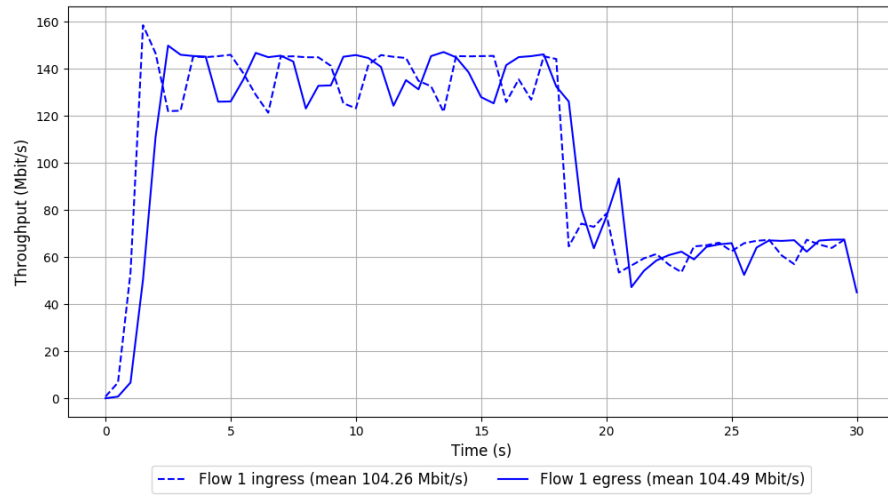
-- Flow 1:

Average throughput: 104.49 Mbit/s

95th percentile per-packet one-way delay: 96.620 ms

Loss rate: 0.36%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-05-30 21:44:21

End at: 2018-05-30 21:44:52

Local clock offset: 0.719 ms

Remote clock offset: 0.251 ms

Below is generated by plot.py at 2018-05-30 22:33:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.75 Mbit/s

95th percentile per-packet one-way delay: 94.254 ms

Loss rate: 0.56%

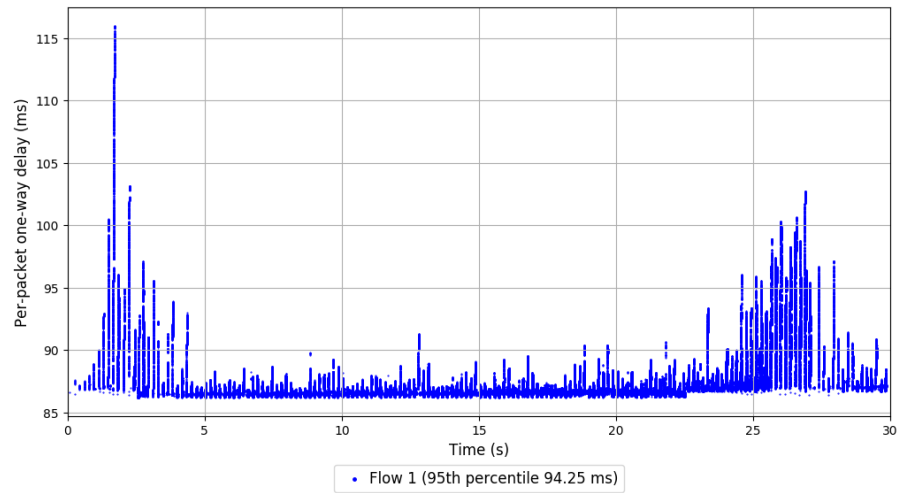
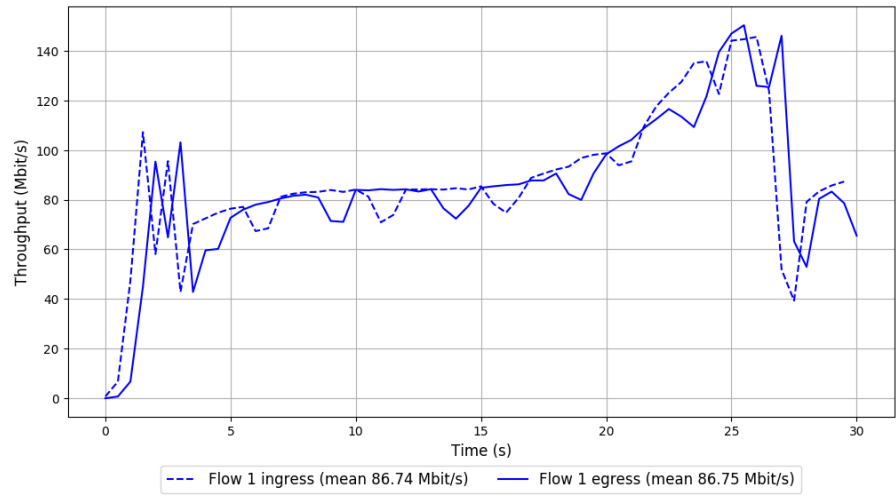
-- Flow 1:

Average throughput: 86.75 Mbit/s

95th percentile per-packet one-way delay: 94.254 ms

Loss rate: 0.56%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-05-30 22:04:48

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

Local clock offset: -0.241 ms

Remote clock offset: 0.29 ms

Below is generated by plot.py at 2018-05-30 22:33:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.27 Mbit/s

95th percentile per-packet one-way delay: 98.699 ms

Loss rate: 0.41%

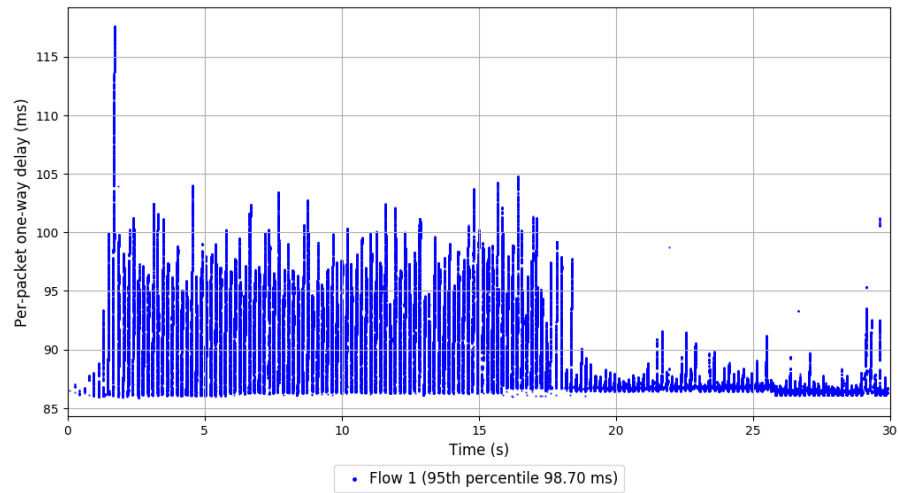
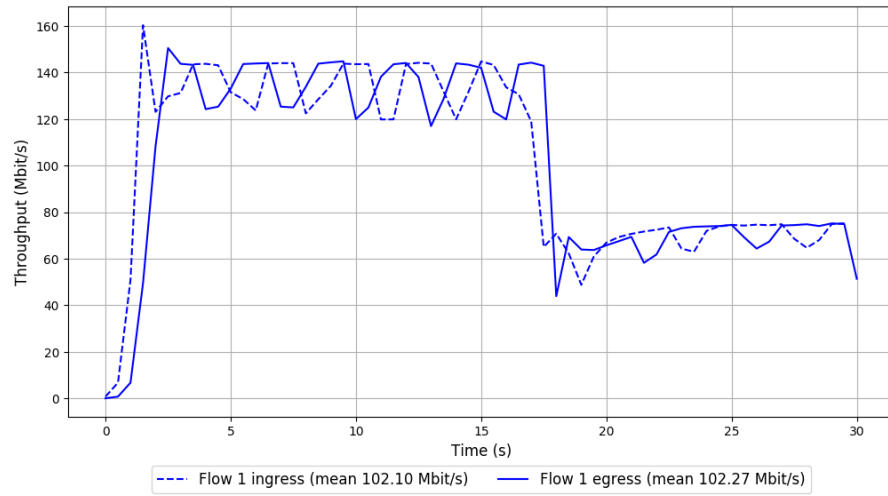
-- Flow 1:

Average throughput: 102.27 Mbit/s

95th percentile per-packet one-way delay: 98.699 ms

Loss rate: 0.41%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-05-30 18:55:34

End at: 2018-05-30 18:56:04

Local clock offset: 7.088 ms

Remote clock offset: 0.038 ms

Below is generated by plot.py at 2018-05-30 22:46:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 682.38 Mbit/s

95th percentile per-packet one-way delay: 300.015 ms

Loss rate: 2.40%

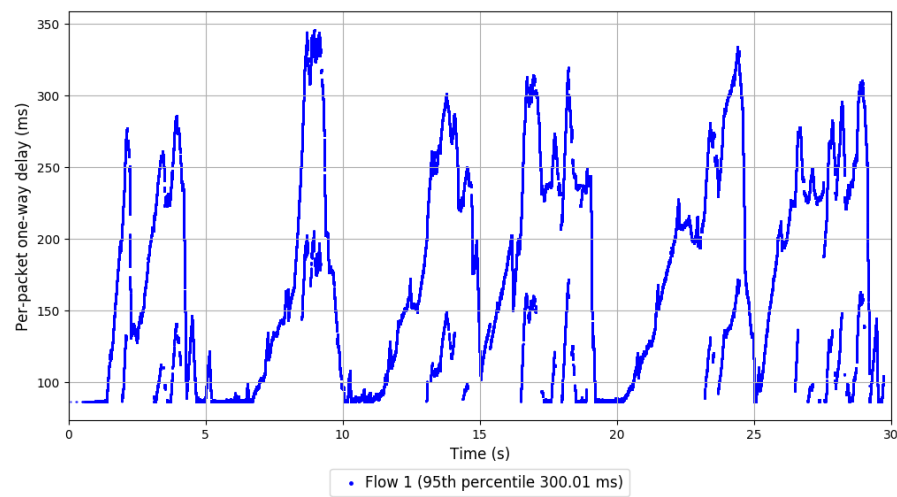
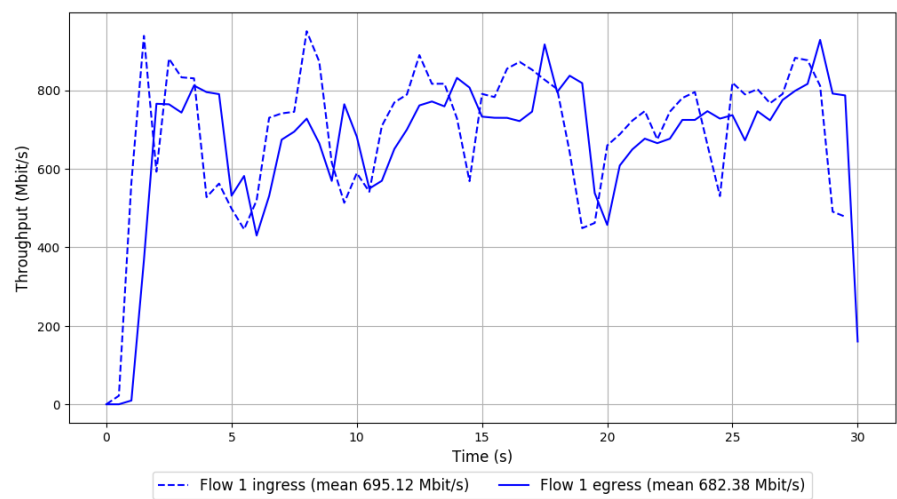
-- Flow 1:

Average throughput: 682.38 Mbit/s

95th percentile per-packet one-way delay: 300.015 ms

Loss rate: 2.40%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-05-30 19:15:46

End at: 2018-05-30 19:16:16

Local clock offset: 5.054 ms

Remote clock offset: 0.047 ms

Below is generated by plot.py at 2018-05-30 22:46:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 514.50 Mbit/s

95th percentile per-packet one-way delay: 314.366 ms

Loss rate: 2.44%

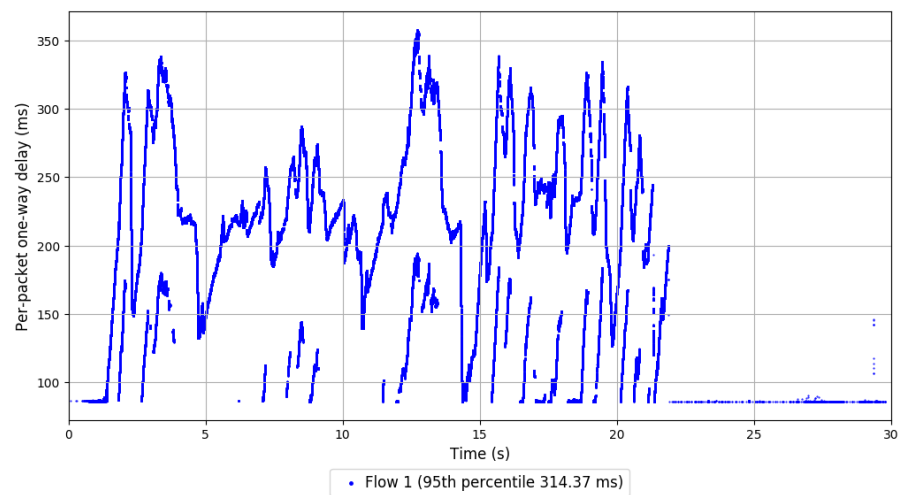
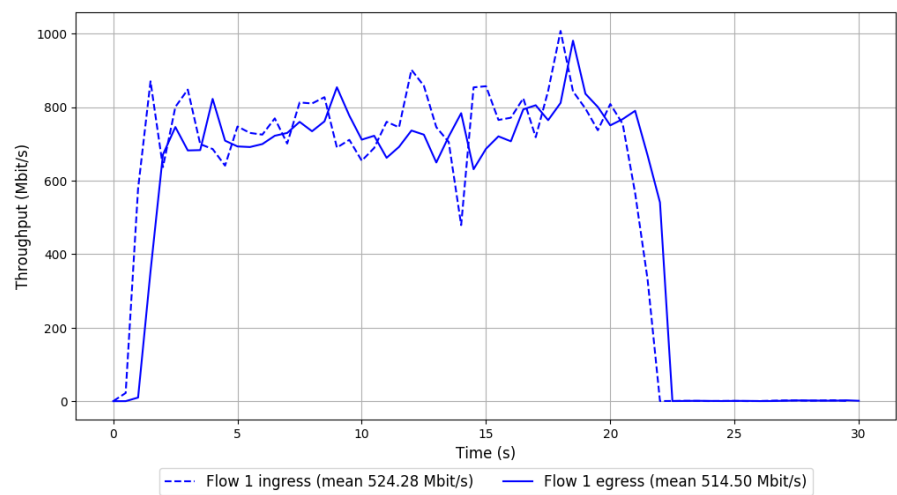
-- Flow 1:

Average throughput: 514.50 Mbit/s

95th percentile per-packet one-way delay: 314.366 ms

Loss rate: 2.44%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-05-30 19:36:03

End at: 2018-05-30 19:36:33

Local clock offset: 2.427 ms

Remote clock offset: 0.055 ms

Below is generated by plot.py at 2018-05-30 22:46:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 652.61 Mbit/s

95th percentile per-packet one-way delay: 309.135 ms

Loss rate: 3.16%

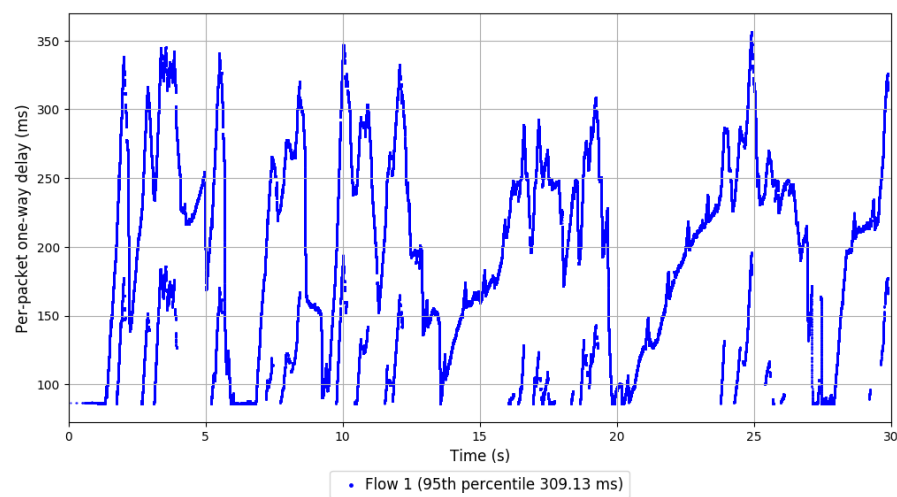
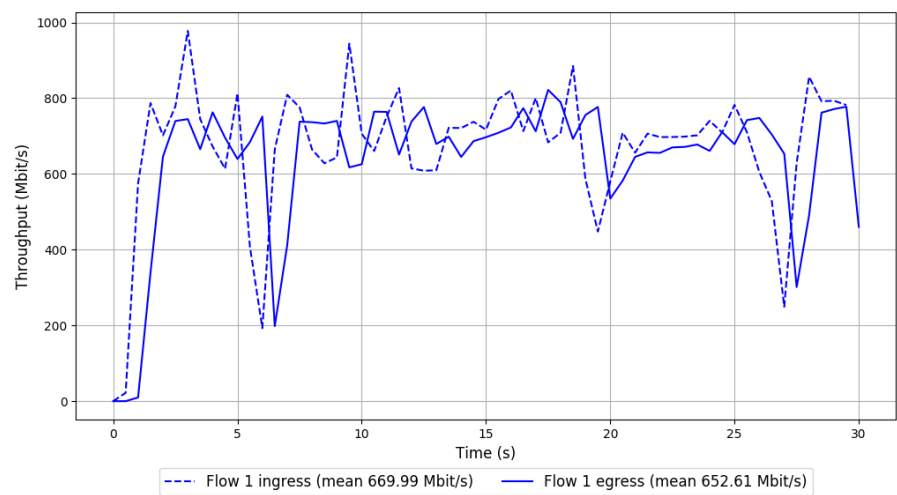
-- Flow 1:

Average throughput: 652.61 Mbit/s

95th percentile per-packet one-way delay: 309.135 ms

Loss rate: 3.16%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-05-30 19:56:38

End at: 2018-05-30 19:57:08

Local clock offset: 3.184 ms

Remote clock offset: 0.131 ms

Below is generated by plot.py at 2018-05-30 22:47:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 669.29 Mbit/s

95th percentile per-packet one-way delay: 287.774 ms

Loss rate: 1.41%

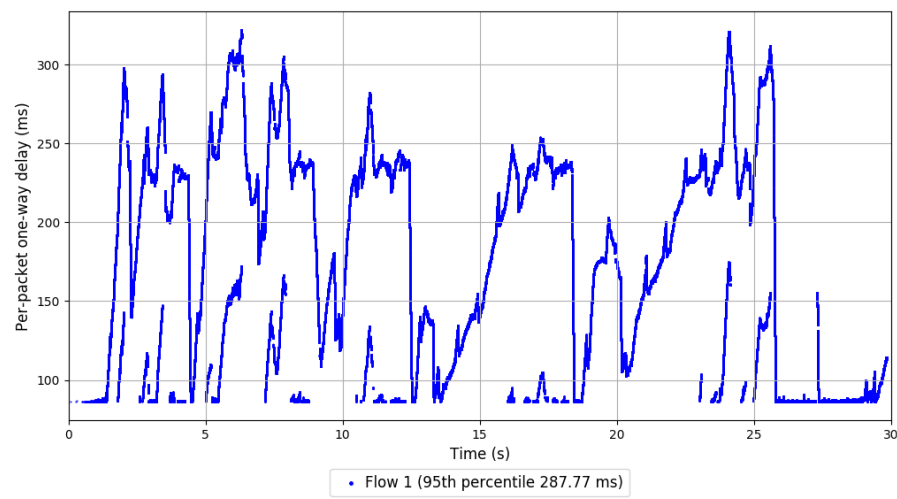
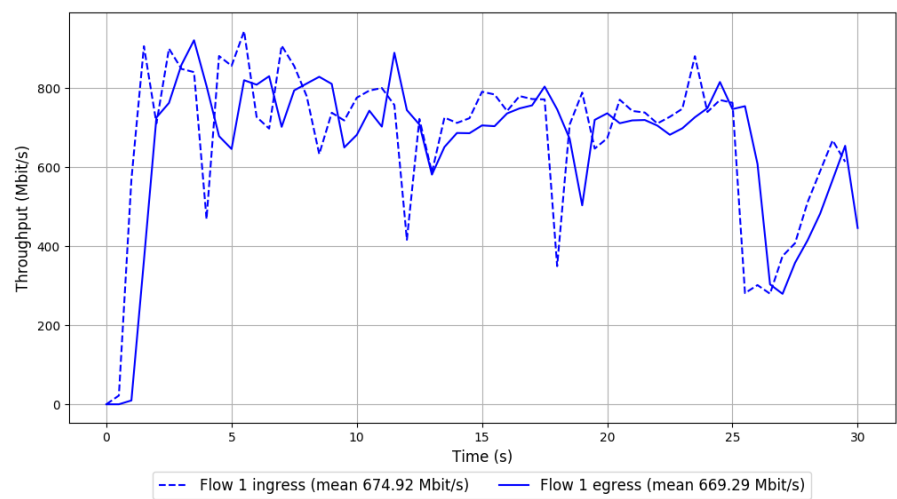
-- Flow 1:

Average throughput: 669.29 Mbit/s

95th percentile per-packet one-way delay: 287.774 ms

Loss rate: 1.41%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-05-30 20:17:12

End at: 2018-05-30 20:17:42

Local clock offset: 1.073 ms

Remote clock offset: 0.134 ms

Below is generated by plot.py at 2018-05-30 22:47:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 638.93 Mbit/s

95th percentile per-packet one-way delay: 260.454 ms

Loss rate: 1.45%

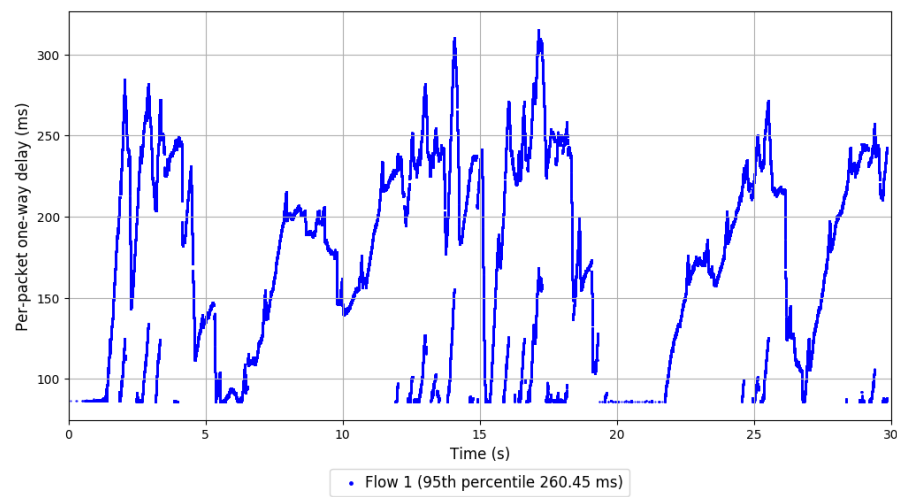
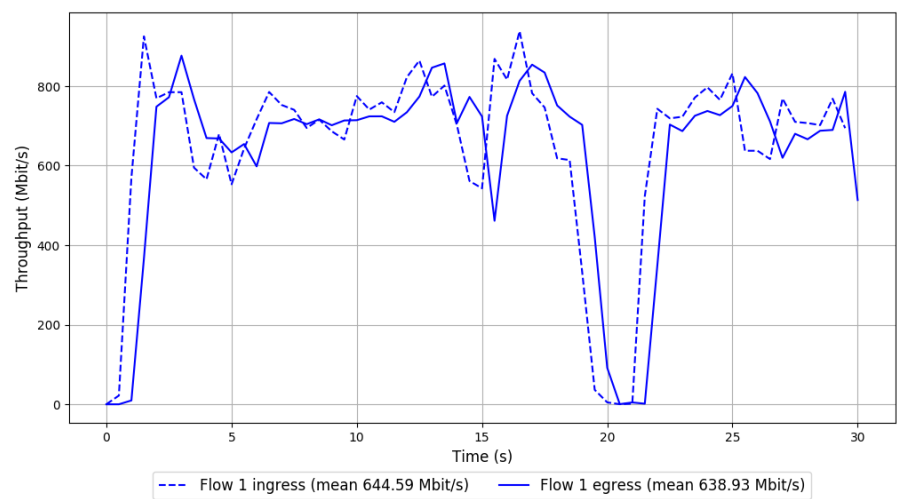
-- Flow 1:

Average throughput: 638.93 Mbit/s

95th percentile per-packet one-way delay: 260.454 ms

Loss rate: 1.45%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-05-30 20:37:39

End at: 2018-05-30 20:38:09

Local clock offset: 0.611 ms

Remote clock offset: 0.239 ms

Below is generated by plot.py at 2018-05-30 22:47:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 703.99 Mbit/s

95th percentile per-packet one-way delay: 289.303 ms

Loss rate: 1.77%

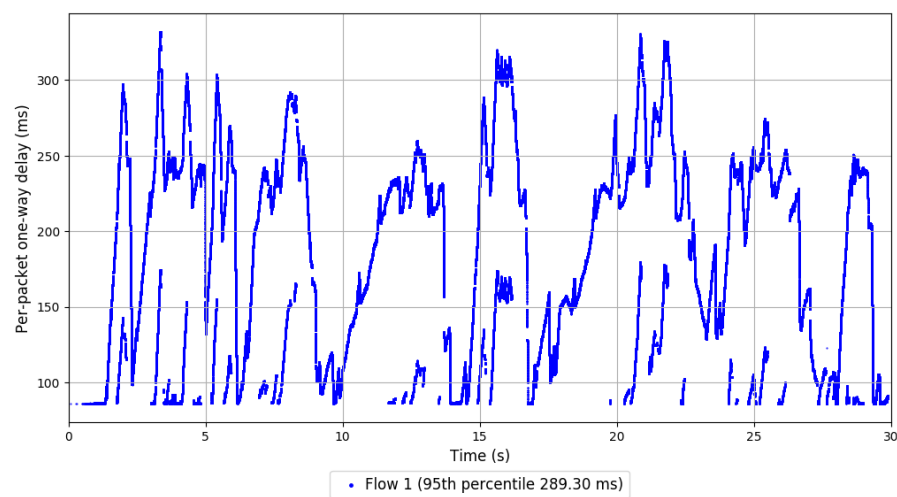
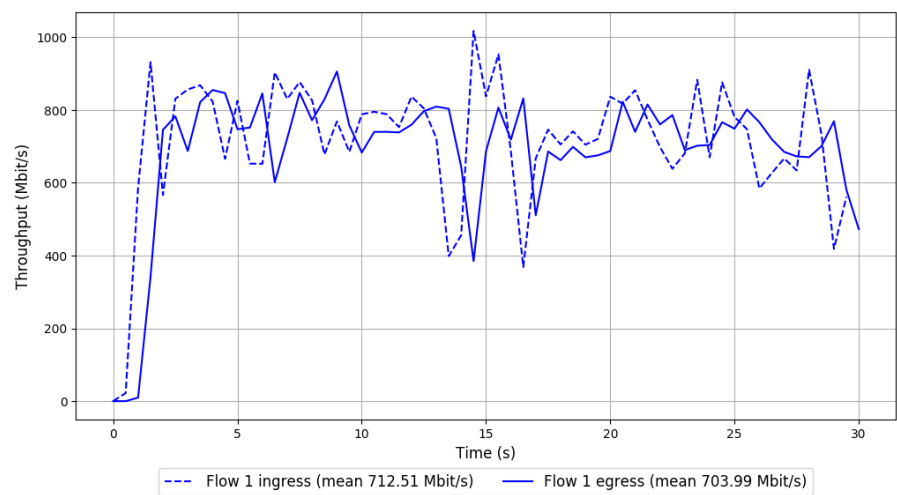
-- Flow 1:

Average throughput: 703.99 Mbit/s

95th percentile per-packet one-way delay: 289.303 ms

Loss rate: 1.77%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-05-30 20:58:18

End at: 2018-05-30 20:58:48

Local clock offset: 0.489 ms

Remote clock offset: 0.204 ms

Below is generated by plot.py at 2018-05-30 22:47:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.89 Mbit/s

95th percentile per-packet one-way delay: 311.602 ms

Loss rate: 3.42%

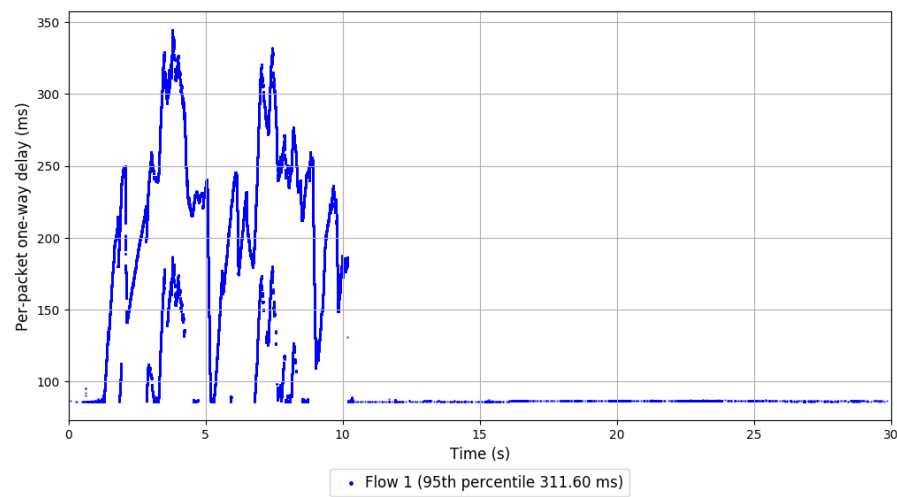
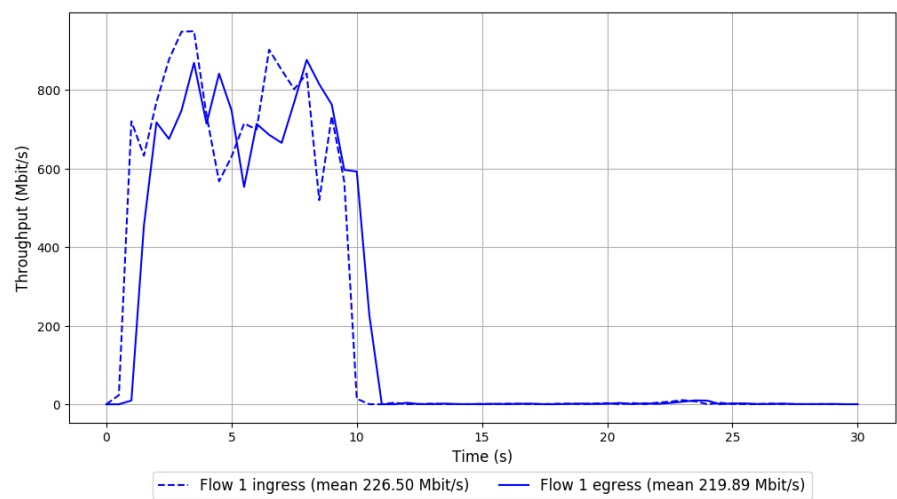
-- Flow 1:

Average throughput: 219.89 Mbit/s

95th percentile per-packet one-way delay: 311.602 ms

Loss rate: 3.42%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-05-30 21:18:26

End at: 2018-05-30 21:18:56

Local clock offset: 0.635 ms

Remote clock offset: 0.188 ms

Below is generated by plot.py at 2018-05-30 22:49:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 709.47 Mbit/s

95th percentile per-packet one-way delay: 270.987 ms

Loss rate: 1.88%

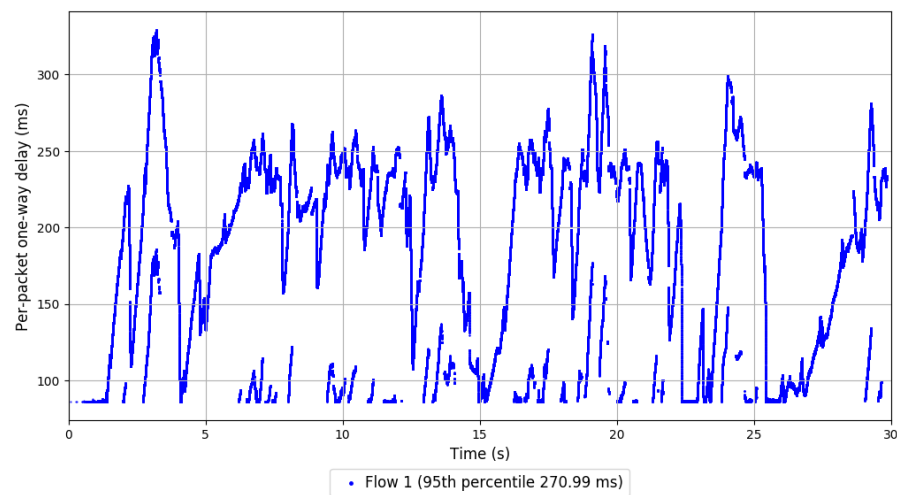
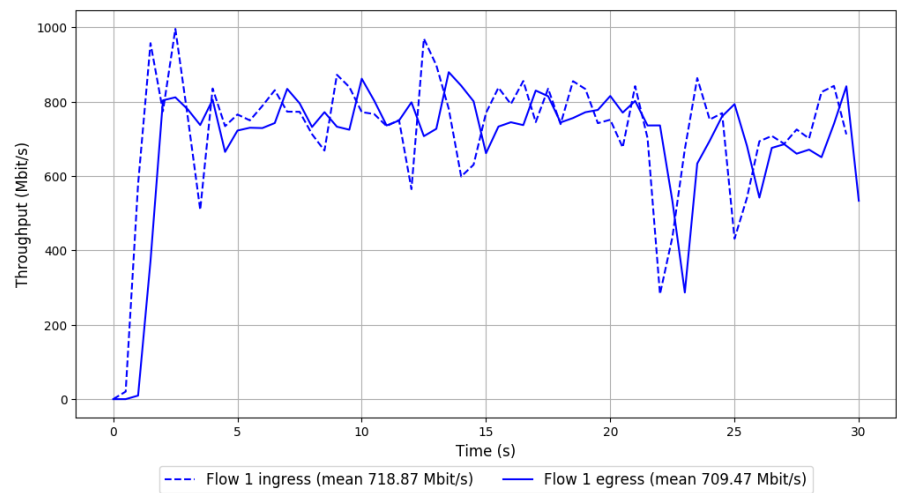
-- Flow 1:

Average throughput: 709.47 Mbit/s

95th percentile per-packet one-way delay: 270.987 ms

Loss rate: 1.88%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-05-30 21:38:56

End at: 2018-05-30 21:39:26

Local clock offset: 0.87 ms

Remote clock offset: 0.249 ms

Below is generated by plot.py at 2018-05-30 22:53:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 692.60 Mbit/s

95th percentile per-packet one-way delay: 269.714 ms

Loss rate: 1.64%

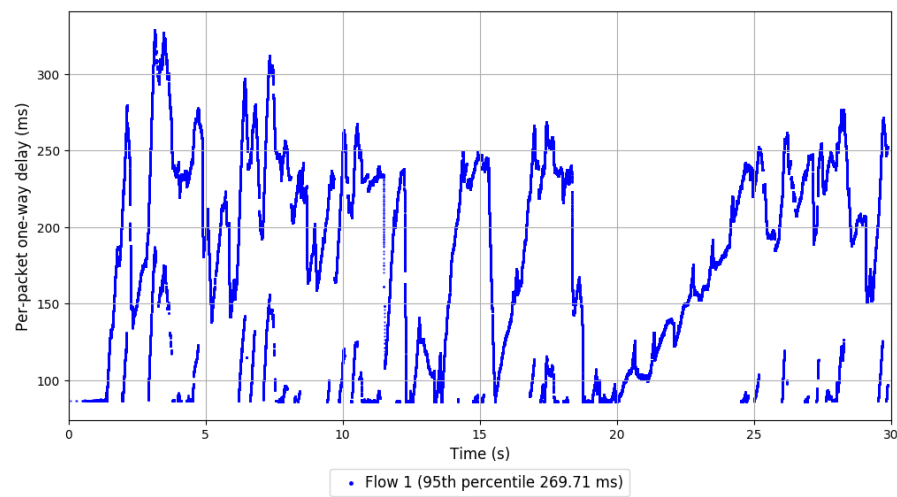
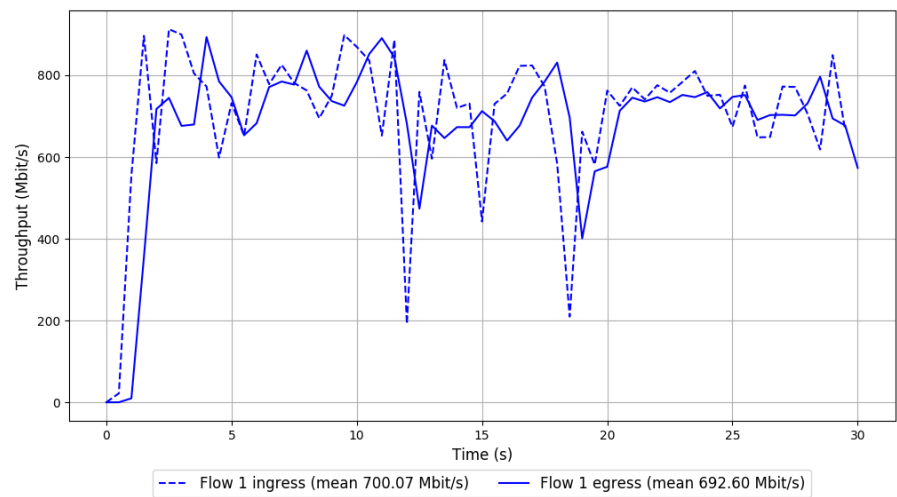
-- Flow 1:

Average throughput: 692.60 Mbit/s

95th percentile per-packet one-way delay: 269.714 ms

Loss rate: 1.64%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-05-30 21:59:31

End at: 2018-05-30 22:00:01

Local clock offset: -0.211 ms

Remote clock offset: 0.258 ms

Below is generated by plot.py at 2018-05-30 22:55:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 492.06 Mbit/s

95th percentile per-packet one-way delay: 311.413 ms

Loss rate: 2.51%

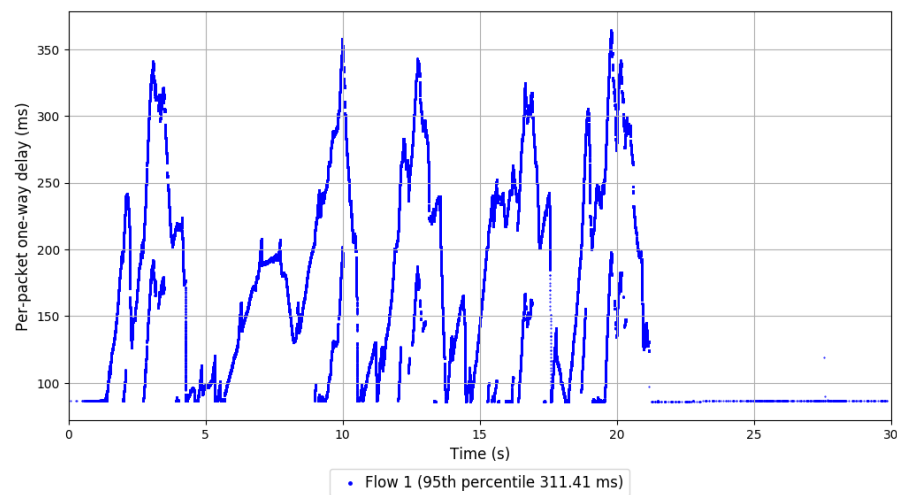
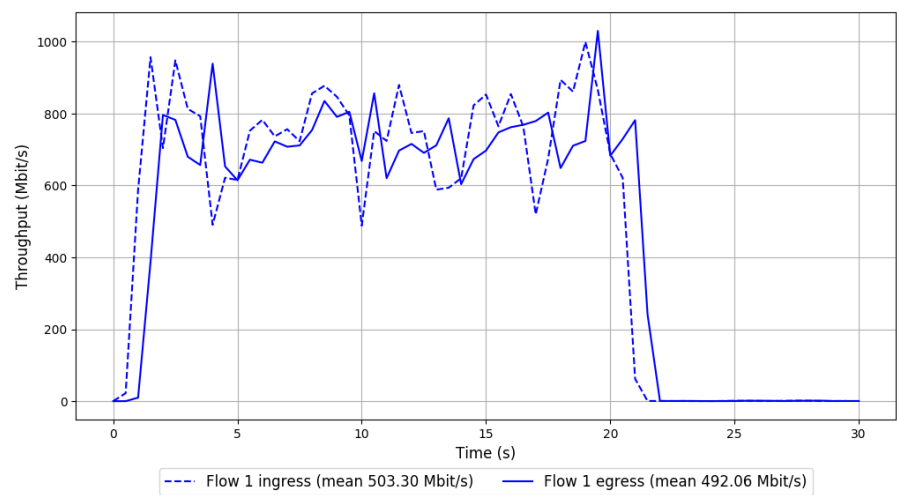
-- Flow 1:

Average throughput: 492.06 Mbit/s

95th percentile per-packet one-way delay: 311.413 ms

Loss rate: 2.51%

Run 10: Report of FillP — Data Link



Run 1: Statistics of Indigo

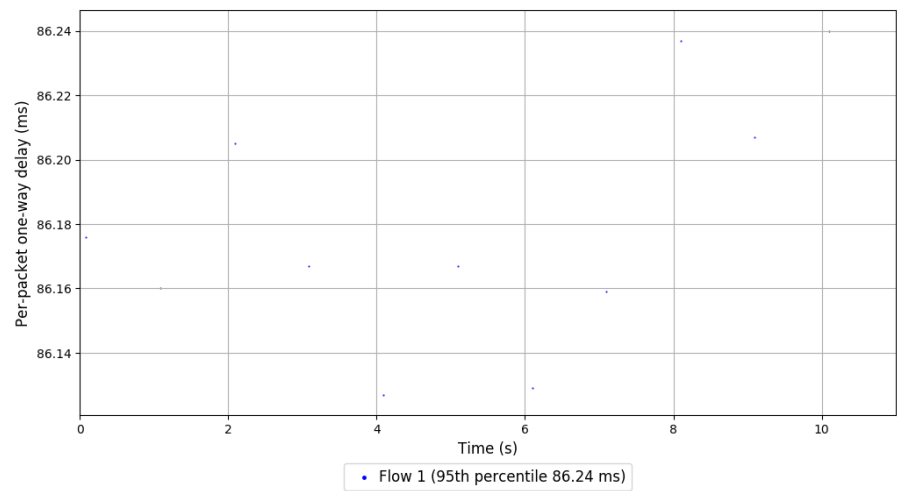
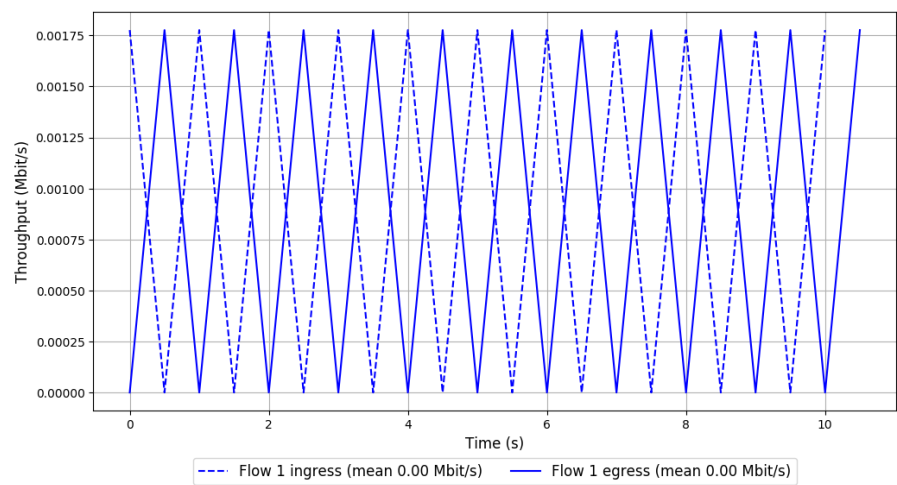
Start at: 2018-05-30 19:07:05

End at: 2018-05-30 19:07:35

Local clock offset: 4.816 ms

Remote clock offset: 0.11 ms

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-05-30 19:27:09

End at: 2018-05-30 19:27:39

Local clock offset: 4.106 ms

Remote clock offset: 0.054 ms

Below is generated by plot.py at 2018-05-30 22:55:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.99 Mbit/s

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

Loss rate: 0.60%

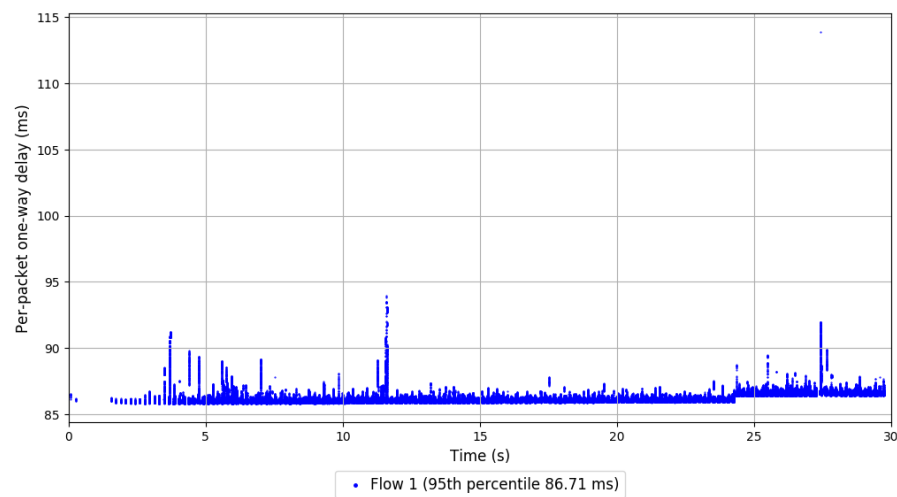
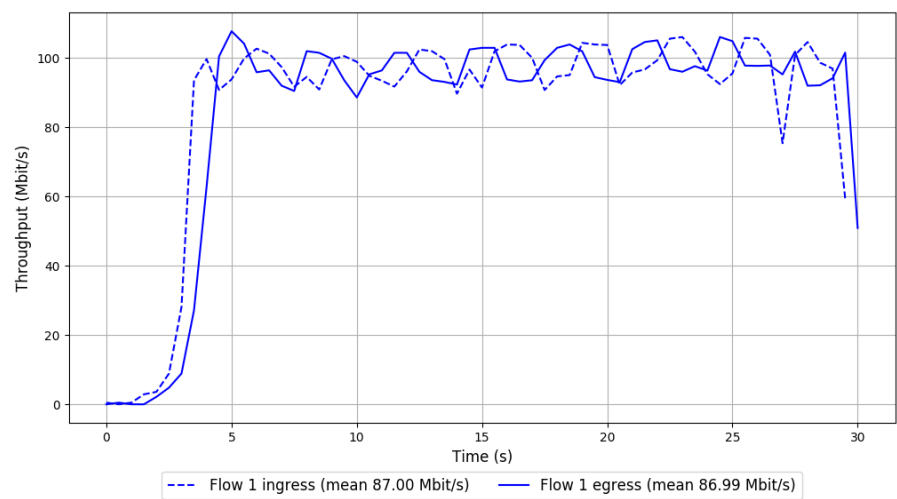
-- Flow 1:

Average throughput: 86.99 Mbit/s

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

Loss rate: 0.60%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-05-30 19:47:38

End at: 2018-05-30 19:48:08

Local clock offset: 1.8 ms

Remote clock offset: 0.137 ms

Below is generated by plot.py at 2018-05-30 22:55:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.41 Mbit/s

95th percentile per-packet one-way delay: 86.329 ms

Loss rate: 0.64%

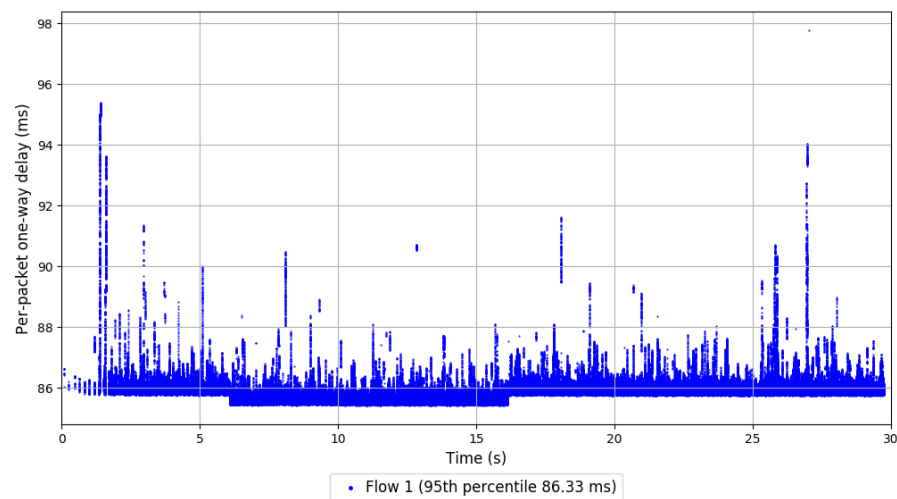
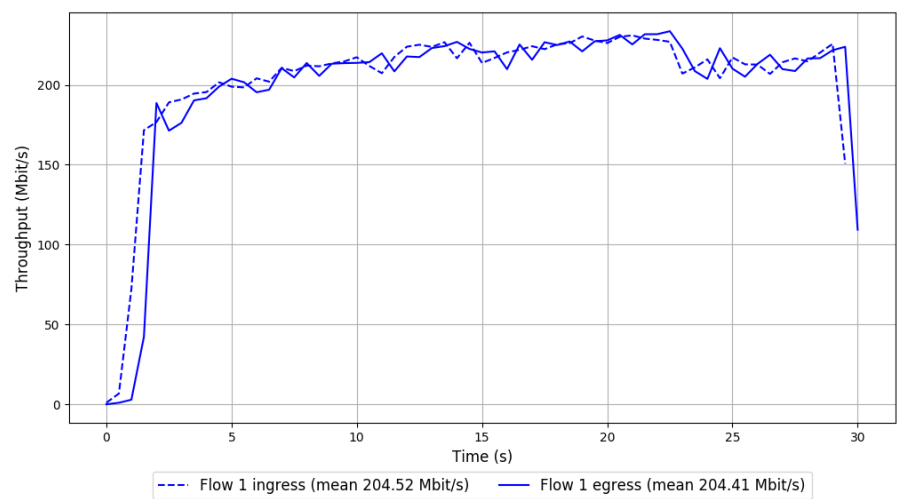
-- Flow 1:

Average throughput: 204.41 Mbit/s

95th percentile per-packet one-way delay: 86.329 ms

Loss rate: 0.64%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-05-30 20:08:10

End at: 2018-05-30 20:08:40

Local clock offset: 1.283 ms

Remote clock offset: 0.157 ms

Below is generated by plot.py at 2018-05-30 22:55:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.62 Mbit/s

95th percentile per-packet one-way delay: 86.813 ms

Loss rate: 0.62%

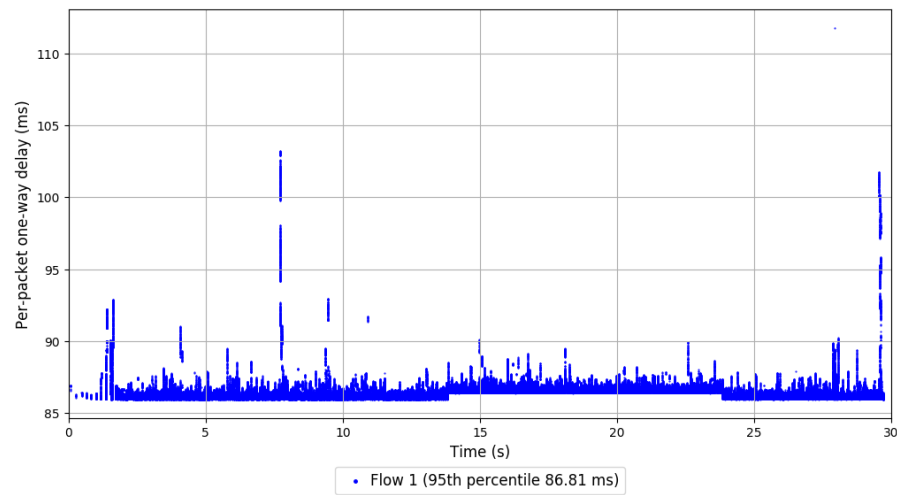
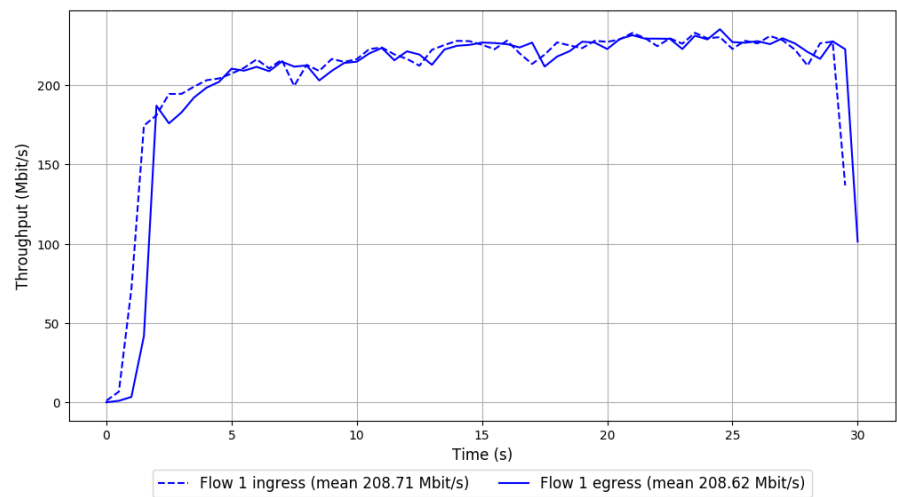
-- Flow 1:

Average throughput: 208.62 Mbit/s

95th percentile per-packet one-way delay: 86.813 ms

Loss rate: 0.62%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-05-30 20:28:40

End at: 2018-05-30 20:29:10

Local clock offset: 1.324 ms

Remote clock offset: 0.168 ms

Below is generated by plot.py at 2018-05-30 22:55:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.57 Mbit/s

95th percentile per-packet one-way delay: 86.762 ms

Loss rate: 0.63%

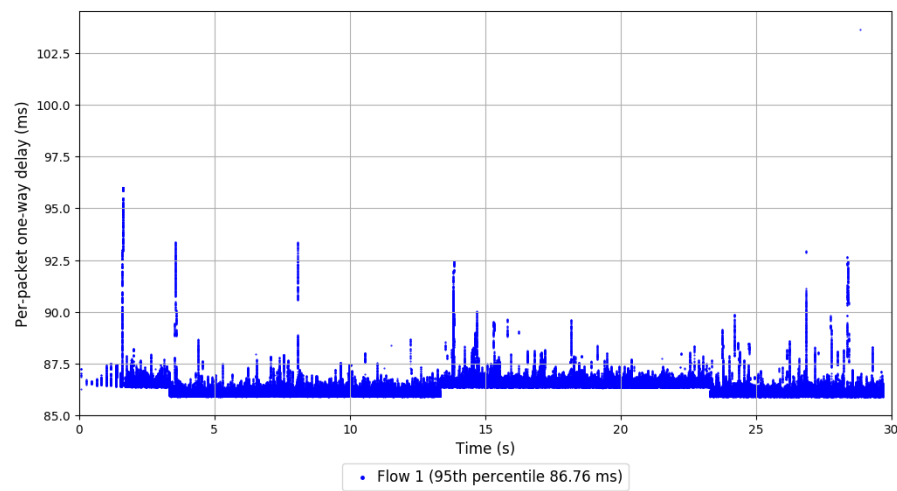
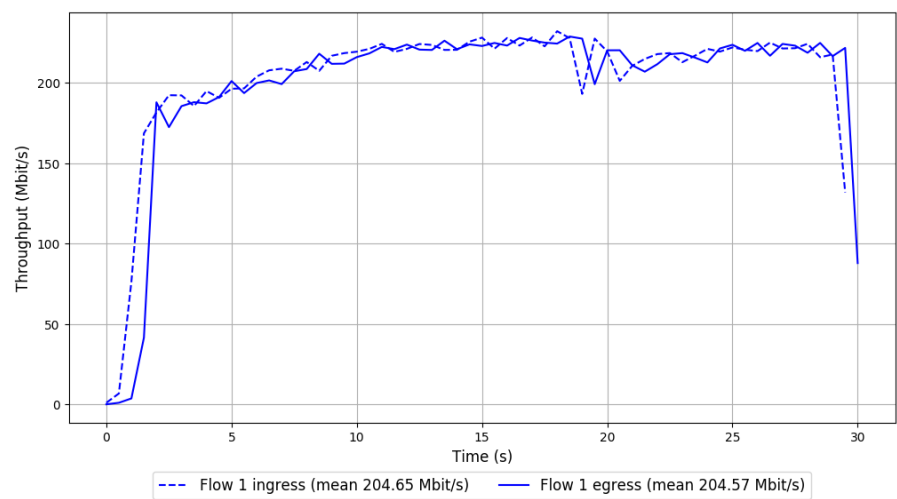
-- Flow 1:

Average throughput: 204.57 Mbit/s

95th percentile per-packet one-way delay: 86.762 ms

Loss rate: 0.63%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-05-30 20:49:15

End at: 2018-05-30 20:49:45

Local clock offset: 0.669 ms

Remote clock offset: 0.206 ms

Below is generated by plot.py at 2018-05-30 22:55:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.15 Mbit/s

95th percentile per-packet one-way delay: 86.663 ms

Loss rate: 0.63%

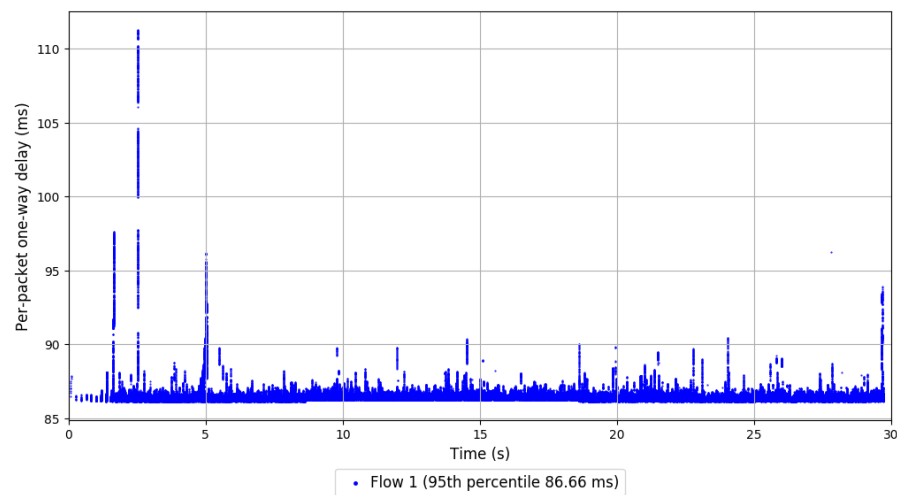
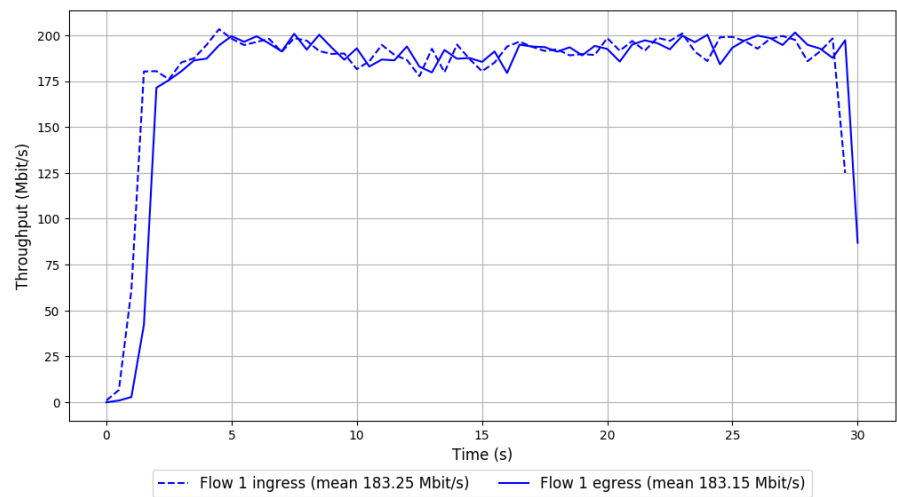
-- Flow 1:

Average throughput: 183.15 Mbit/s

95th percentile per-packet one-way delay: 86.663 ms

Loss rate: 0.63%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-05-30 21:09:31

End at: 2018-05-30 21:10:01

Local clock offset: 0.498 ms

Remote clock offset: 0.203 ms

Below is generated by plot.py at 2018-05-30 22:55:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.47 Mbit/s

95th percentile per-packet one-way delay: 86.605 ms

Loss rate: 0.62%

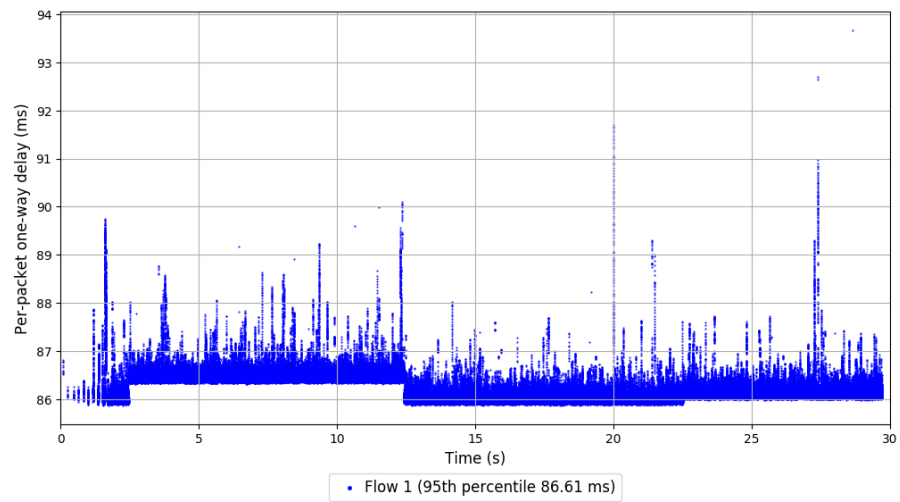
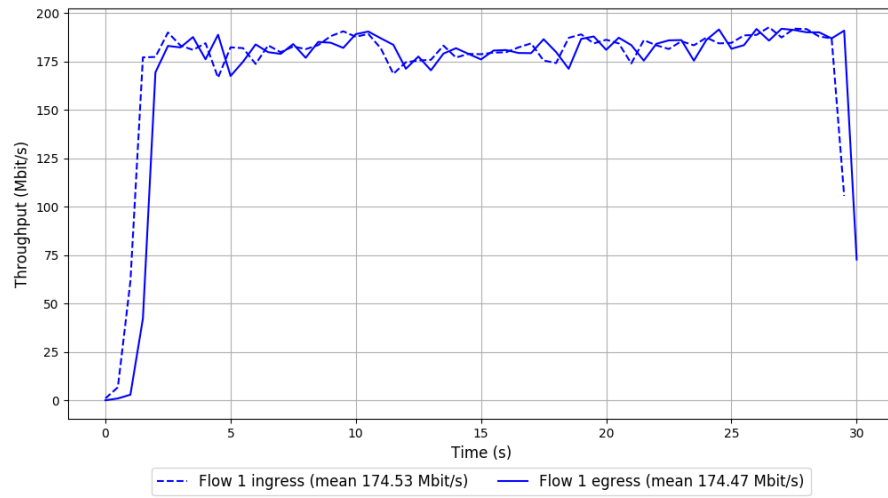
-- Flow 1:

Average throughput: 174.47 Mbit/s

95th percentile per-packet one-way delay: 86.605 ms

Loss rate: 0.62%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-05-30 21:29:58

End at: 2018-05-30 21:30:28

Local clock offset: 0.721 ms

Remote clock offset: 0.285 ms

Below is generated by plot.py at 2018-05-30 22:55:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.15 Mbit/s

95th percentile per-packet one-way delay: 86.529 ms

Loss rate: 0.48%

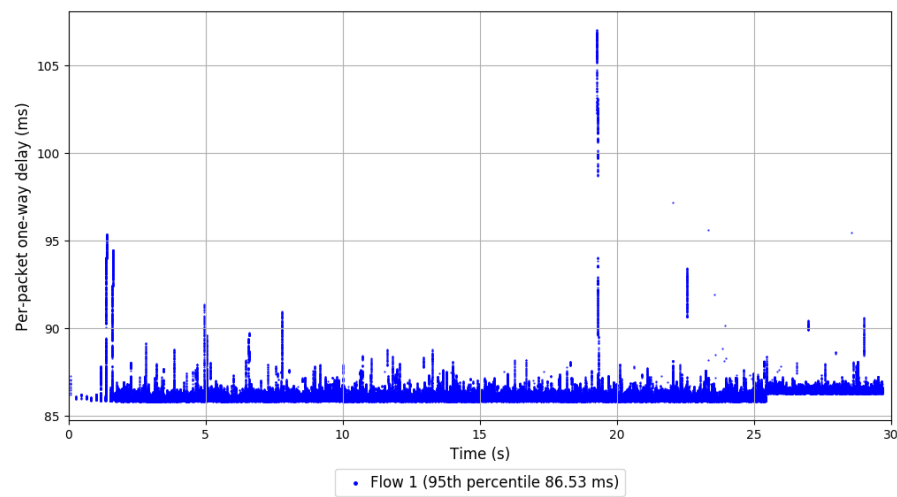
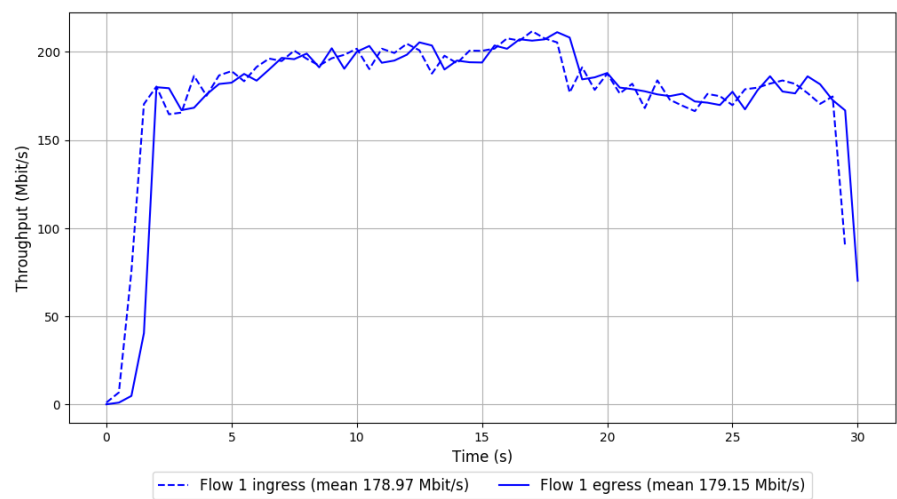
-- Flow 1:

Average throughput: 179.15 Mbit/s

95th percentile per-packet one-way delay: 86.529 ms

Loss rate: 0.48%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-05-30 21:50:30

End at: 2018-05-30 21:51:00

Local clock offset: 0.162 ms

Remote clock offset: 0.276 ms

Below is generated by plot.py at 2018-05-30 22:55:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.77 Mbit/s

95th percentile per-packet one-way delay: 86.906 ms

Loss rate: 0.62%

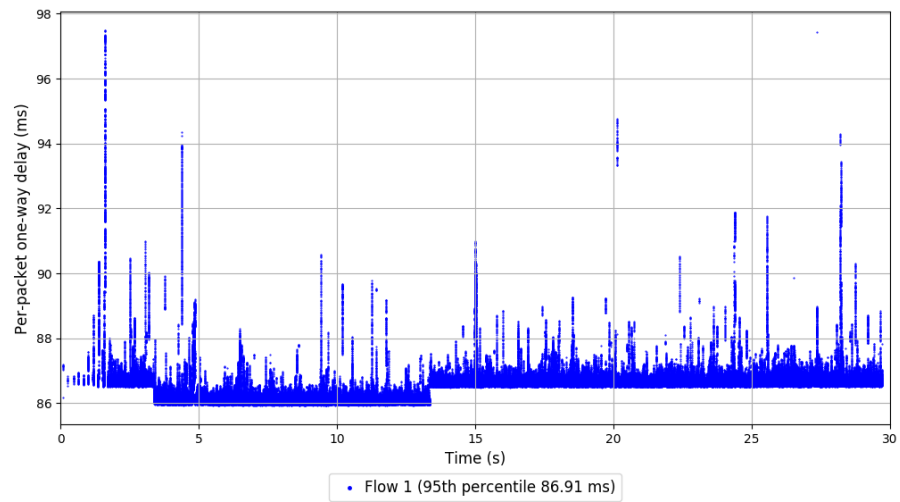
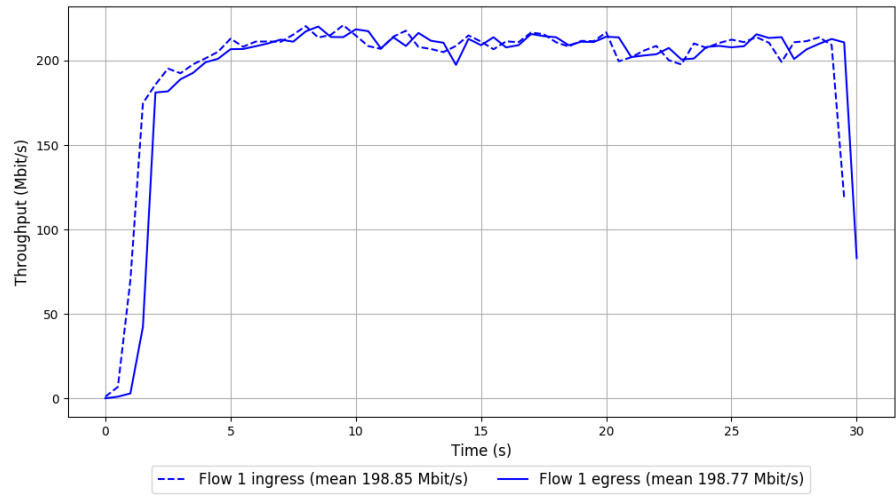
-- Flow 1:

Average throughput: 198.77 Mbit/s

95th percentile per-packet one-way delay: 86.906 ms

Loss rate: 0.62%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-05-30 22:10:57

End at: 2018-05-30 22:11:27

Local clock offset: -0.73 ms

Remote clock offset: 0.307 ms

Below is generated by plot.py at 2018-05-30 22:55:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.54 Mbit/s

95th percentile per-packet one-way delay: 86.276 ms

Loss rate: 0.63%

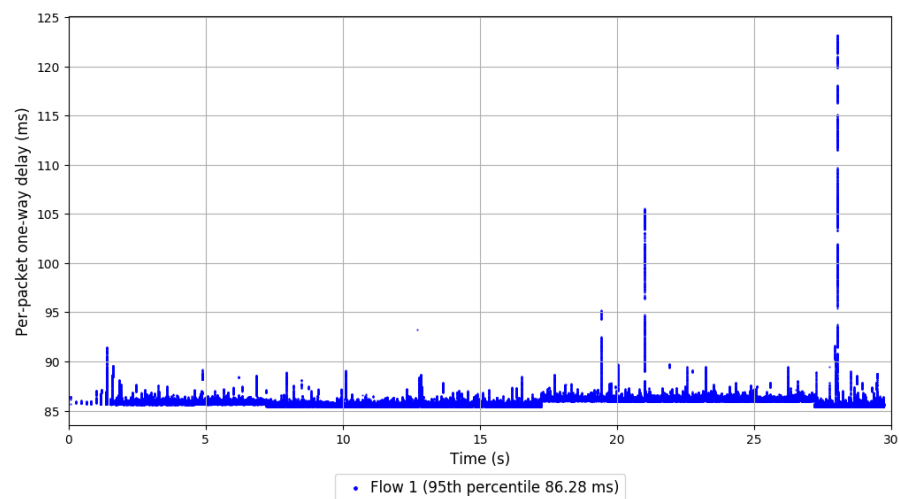
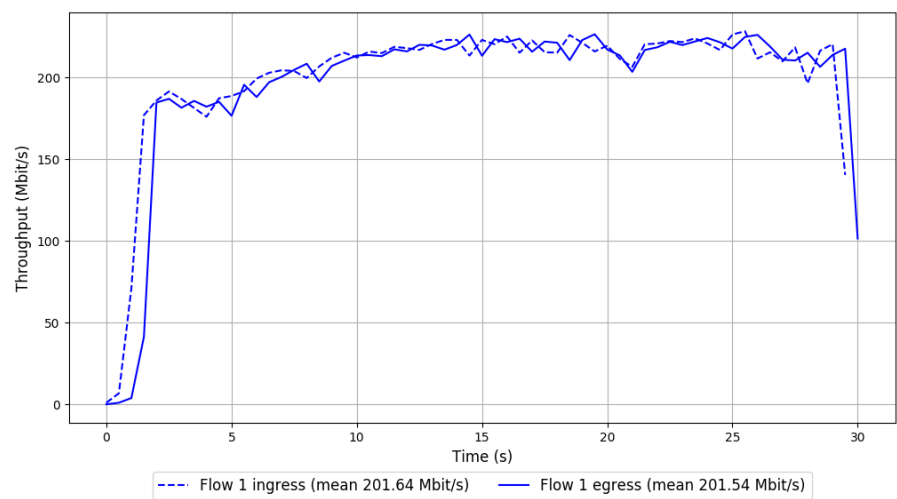
-- Flow 1:

Average throughput: 201.54 Mbit/s

95th percentile per-packet one-way delay: 86.276 ms

Loss rate: 0.63%

Run 10: Report of Indigo — Data Link

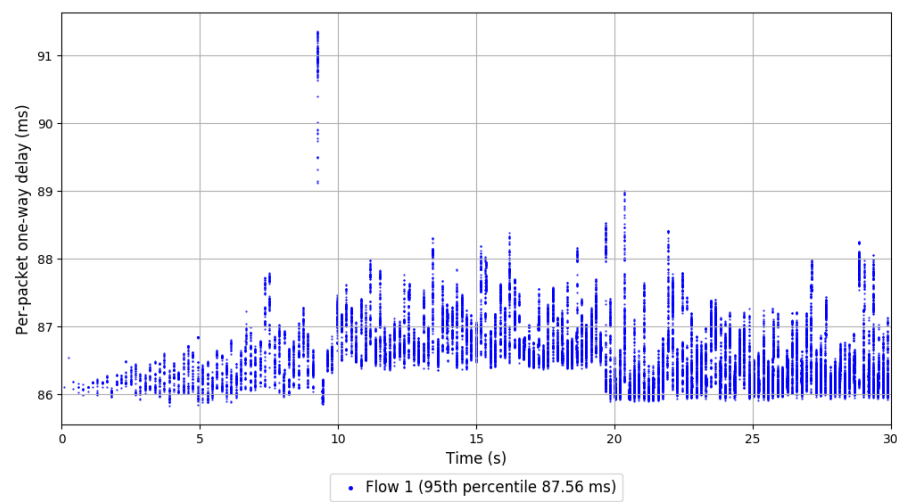
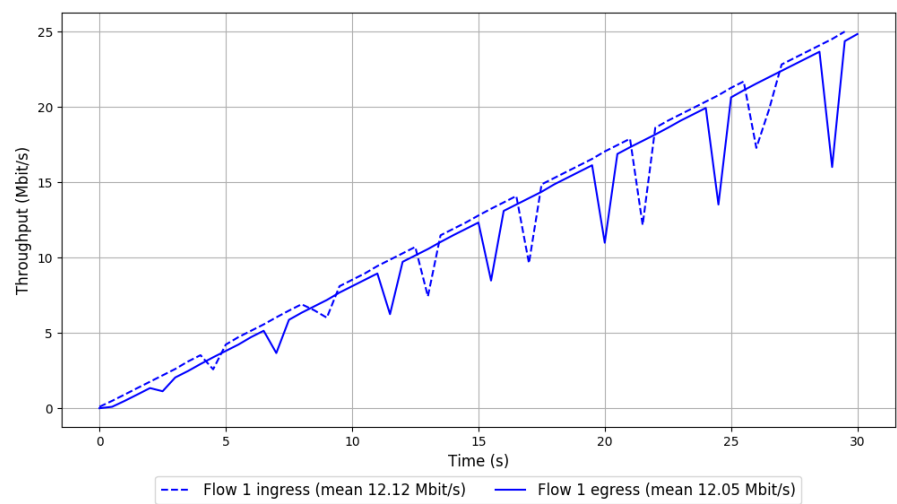


```
Run 1: Statistics of LEDBAT

Start at: 2018-05-30 18:58:24
End at: 2018-05-30 18:58:54
Local clock offset: 5.727 ms
Remote clock offset: 0.034 ms

# Below is generated by plot.py at 2018-05-30 22:55:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.05 Mbit/s
95th percentile per-packet one-way delay: 87.556 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 12.05 Mbit/s
95th percentile per-packet one-way delay: 87.556 ms
Loss rate: 1.15%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-05-30 19:18:30

End at: 2018-05-30 19:19:00

Local clock offset: 5.609 ms

Remote clock offset: 0.107 ms

Below is generated by plot.py at 2018-05-30 22:55:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.83 Mbit/s

95th percentile per-packet one-way delay: 87.249 ms

Loss rate: 1.27%

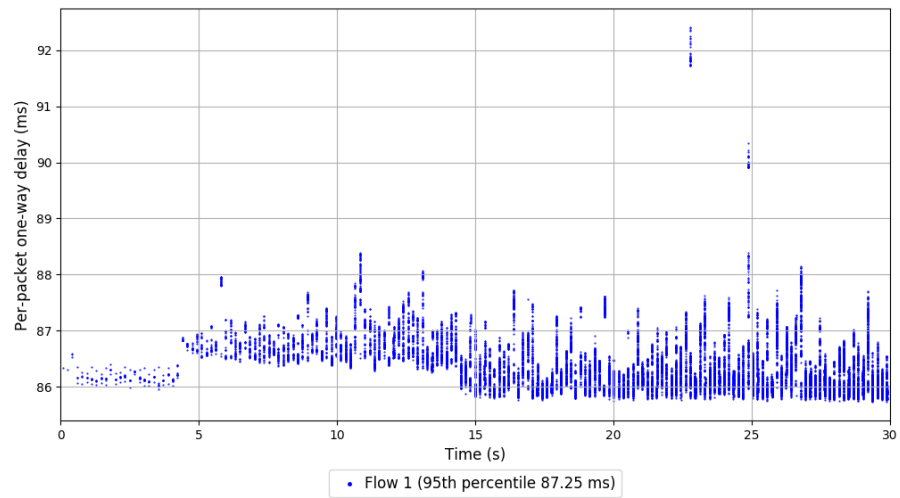
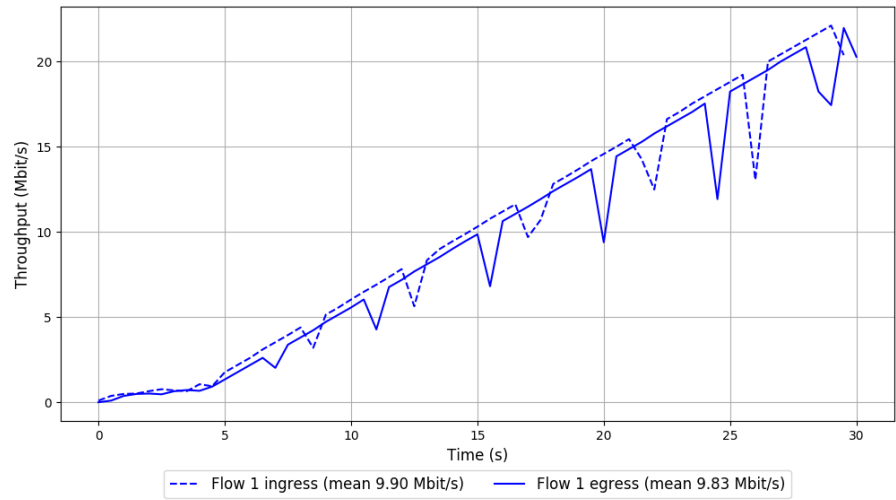
-- Flow 1:

Average throughput: 9.83 Mbit/s

95th percentile per-packet one-way delay: 87.249 ms

Loss rate: 1.27%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-05-30 19:38:52

End at: 2018-05-30 19:39:22

Local clock offset: 2.161 ms

Remote clock offset: 0.104 ms

Below is generated by plot.py at 2018-05-30 22:55:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.08 Mbit/s

95th percentile per-packet one-way delay: 87.730 ms

Loss rate: 1.15%

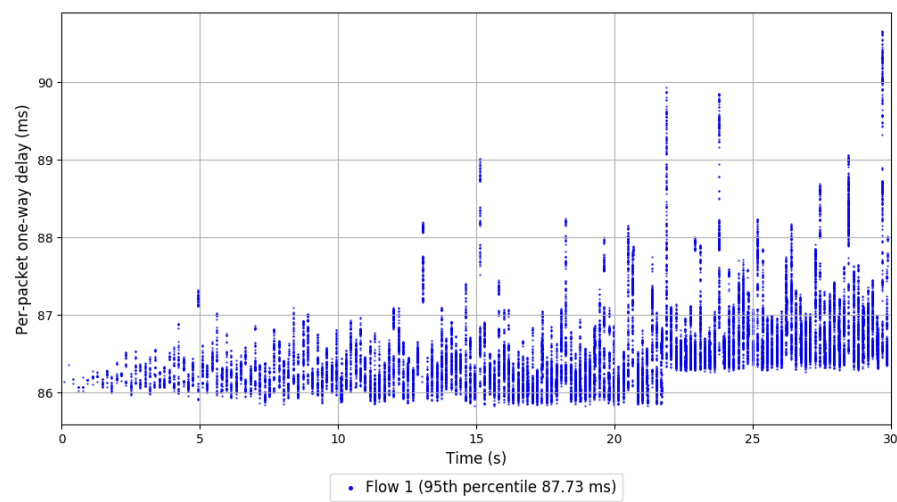
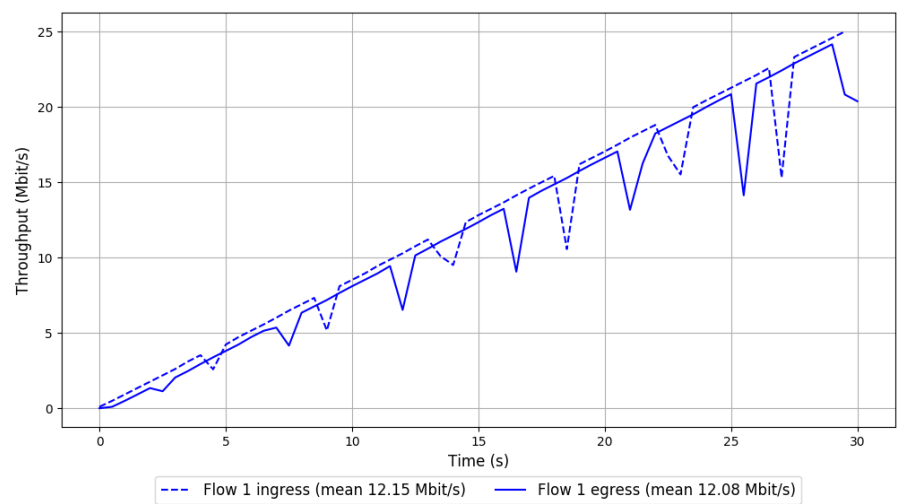
-- Flow 1:

Average throughput: 12.08 Mbit/s

95th percentile per-packet one-way delay: 87.730 ms

Loss rate: 1.15%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-05-30 19:59:27

End at: 2018-05-30 19:59:57

Local clock offset: 2.428 ms

Remote clock offset: 0.149 ms

Below is generated by plot.py at 2018-05-30 22:55:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.04 Mbit/s

95th percentile per-packet one-way delay: 87.881 ms

Loss rate: 1.14%

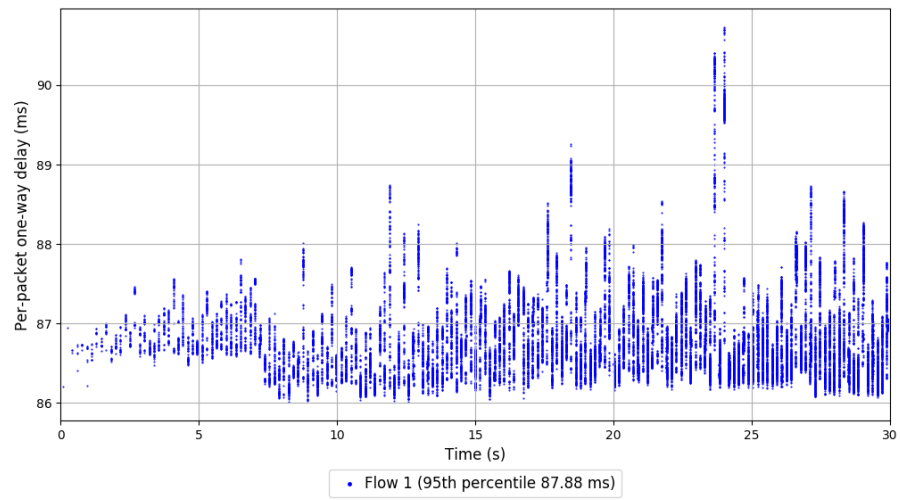
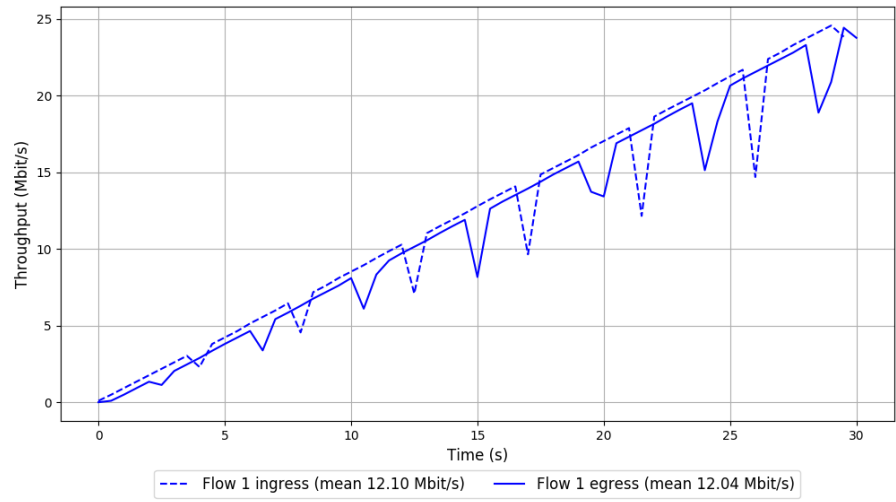
-- Flow 1:

Average throughput: 12.04 Mbit/s

95th percentile per-packet one-way delay: 87.881 ms

Loss rate: 1.14%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-05-30 20:19:59

End at: 2018-05-30 20:20:29

Local clock offset: 1.339 ms

Remote clock offset: 0.154 ms

Below is generated by plot.py at 2018-05-30 22:55:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.98 Mbit/s

95th percentile per-packet one-way delay: 87.888 ms

Loss rate: 1.16%

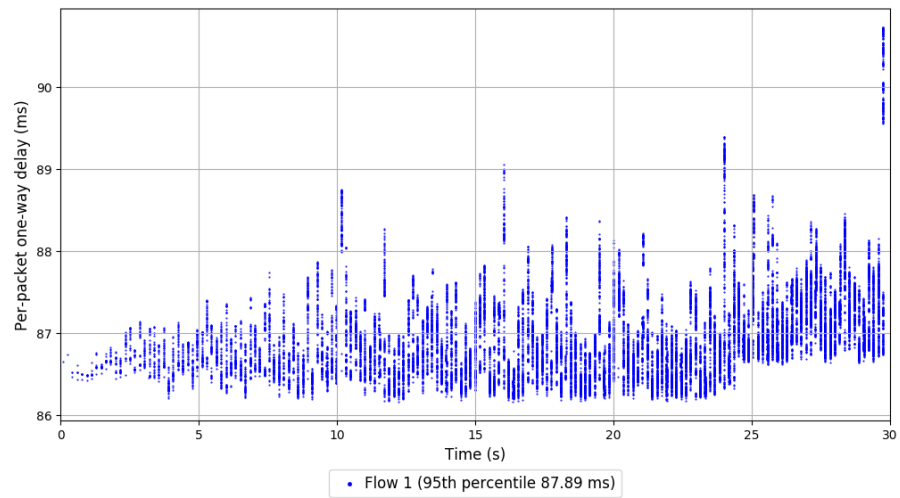
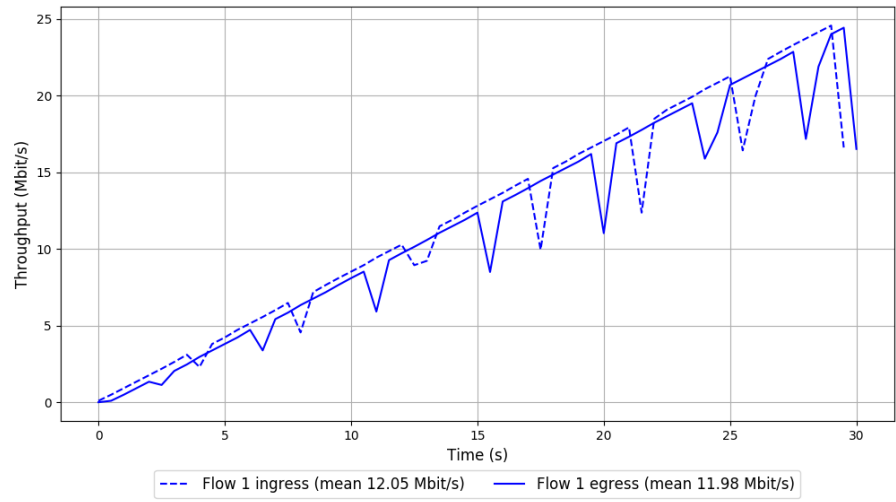
-- Flow 1:

Average throughput: 11.98 Mbit/s

95th percentile per-packet one-way delay: 87.888 ms

Loss rate: 1.16%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-05-30 20:40:30

End at: 2018-05-30 20:41:00

Local clock offset: 0.378 ms

Remote clock offset: 0.229 ms

Below is generated by plot.py at 2018-05-30 22:55:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.09 Mbit/s

95th percentile per-packet one-way delay: 87.365 ms

Loss rate: 1.15%

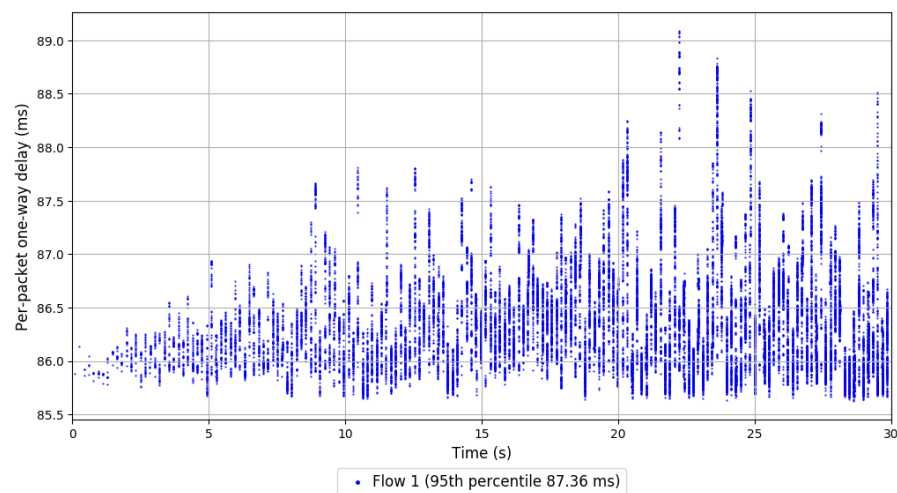
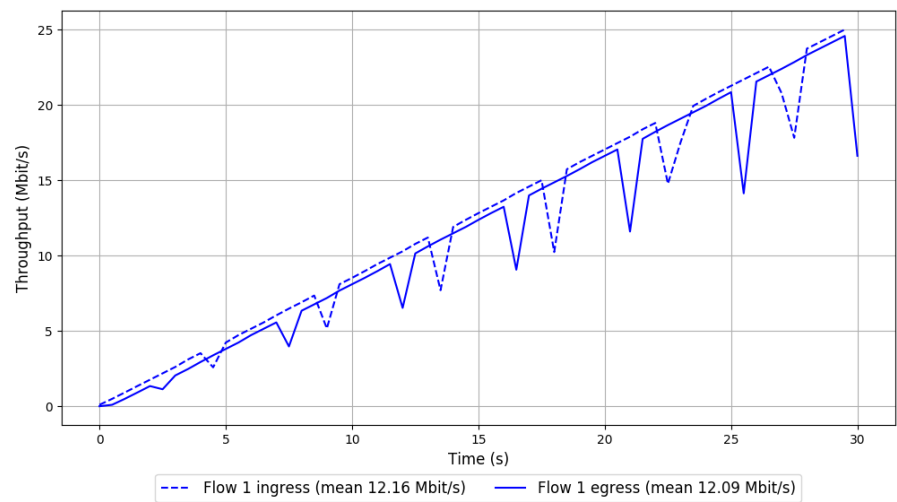
-- Flow 1:

Average throughput: 12.09 Mbit/s

95th percentile per-packet one-way delay: 87.365 ms

Loss rate: 1.15%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-05-30 21:00:48

End at: 2018-05-30 21:01:18

Local clock offset: 0.343 ms

Remote clock offset: 0.233 ms

Below is generated by plot.py at 2018-05-30 22:55:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.97 Mbit/s

95th percentile per-packet one-way delay: 87.636 ms

Loss rate: 1.16%

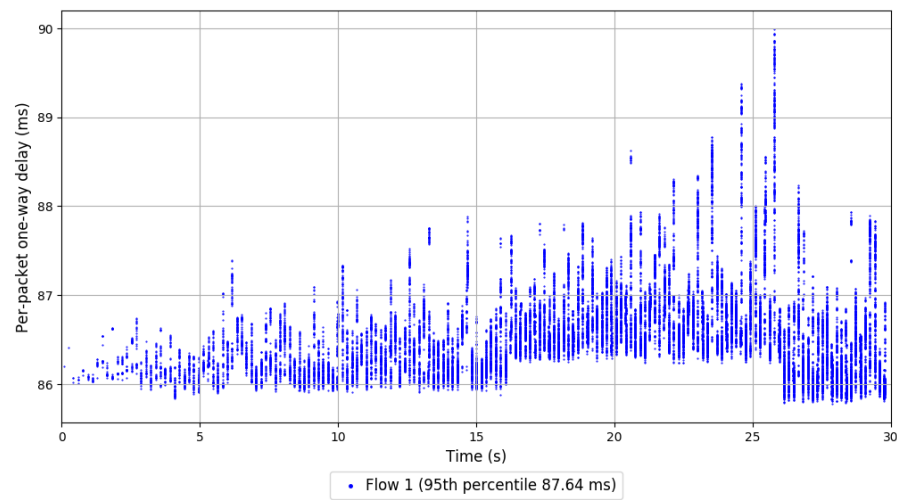
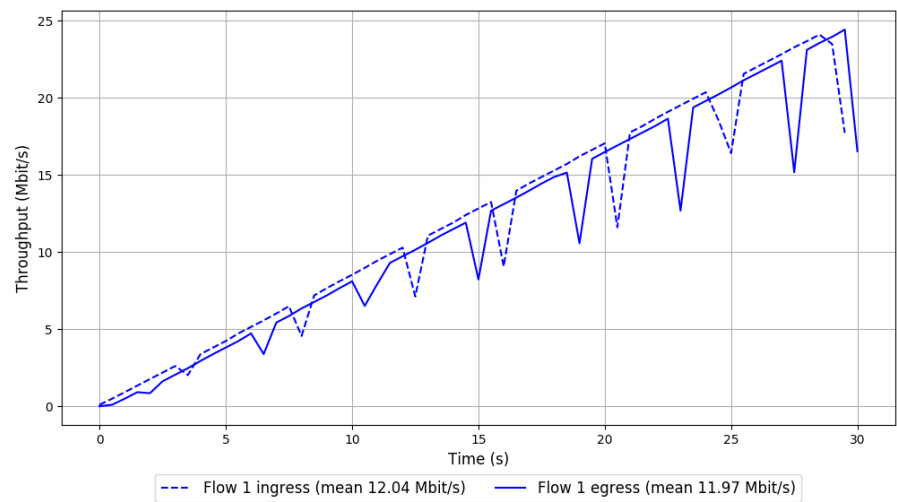
-- Flow 1:

Average throughput: 11.97 Mbit/s

95th percentile per-packet one-way delay: 87.636 ms

Loss rate: 1.16%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-05-30 21:21:18

End at: 2018-05-30 21:21:48

Local clock offset: 0.405 ms

Remote clock offset: 0.246 ms

Below is generated by plot.py at 2018-05-30 22:55:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.06 Mbit/s

95th percentile per-packet one-way delay: 87.307 ms

Loss rate: 1.15%

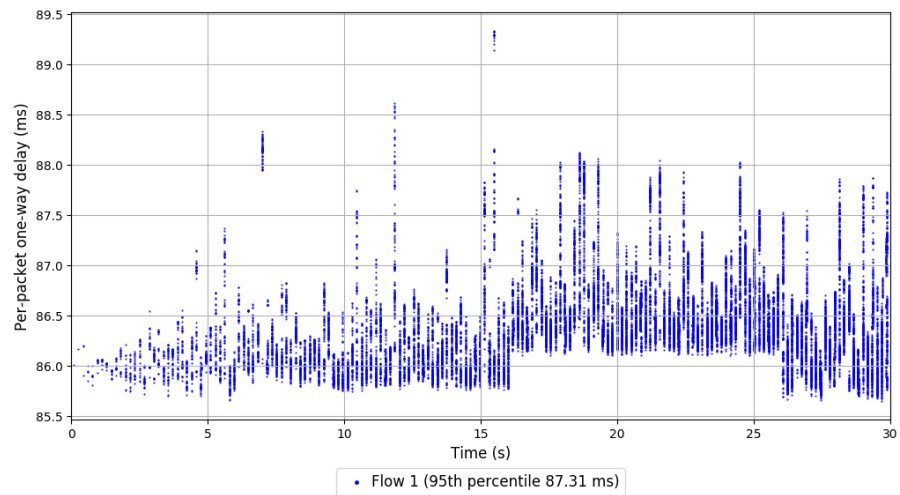
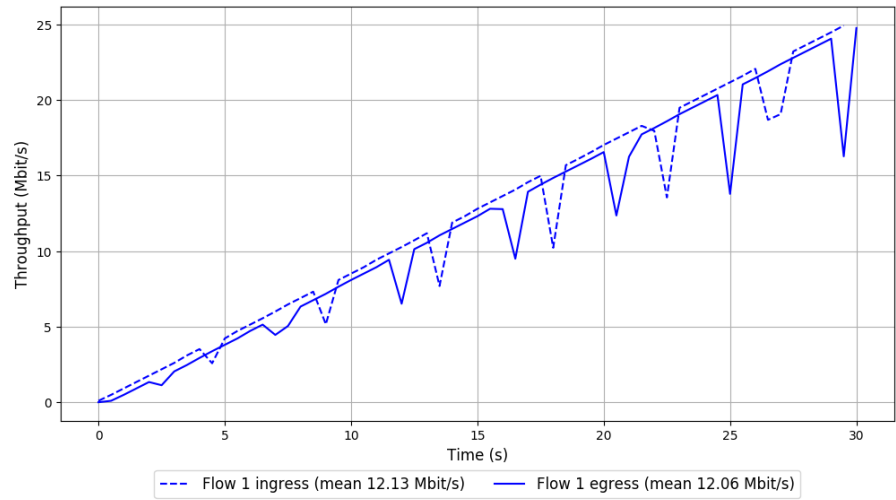
-- Flow 1:

Average throughput: 12.06 Mbit/s

95th percentile per-packet one-way delay: 87.307 ms

Loss rate: 1.15%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-05-30 21:41:47

End at: 2018-05-30 21:42:17

Local clock offset: 0.823 ms

Remote clock offset: 0.259 ms

Below is generated by plot.py at 2018-05-30 22:55:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.59 Mbit/s

95th percentile per-packet one-way delay: 87.285 ms

Loss rate: 1.17%

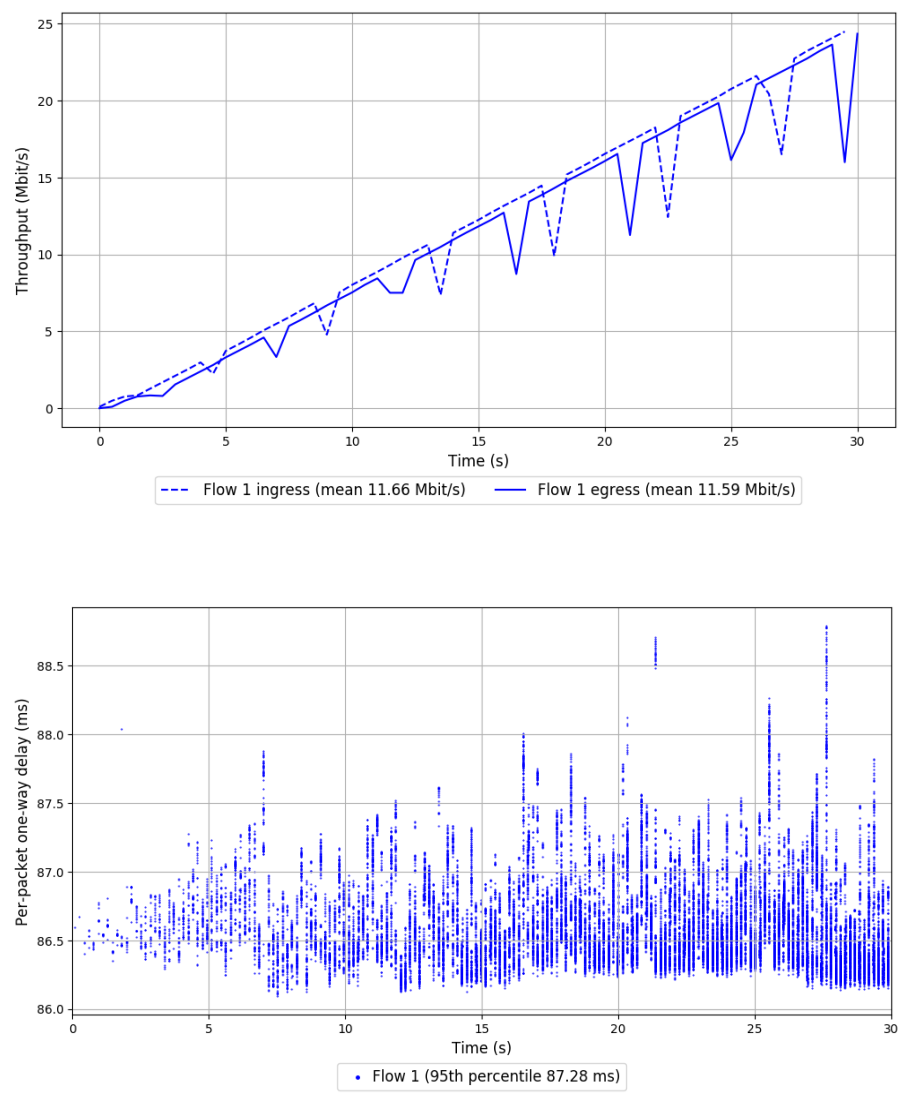
-- Flow 1:

Average throughput: 11.59 Mbit/s

95th percentile per-packet one-way delay: 87.285 ms

Loss rate: 1.17%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-05-30 22:02:12

End at: 2018-05-30 22:02:42

Local clock offset: -0.26 ms

Remote clock offset: 0.299 ms

Below is generated by plot.py at 2018-05-30 22:55:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.03 Mbit/s

95th percentile per-packet one-way delay: 88.037 ms

Loss rate: 1.20%

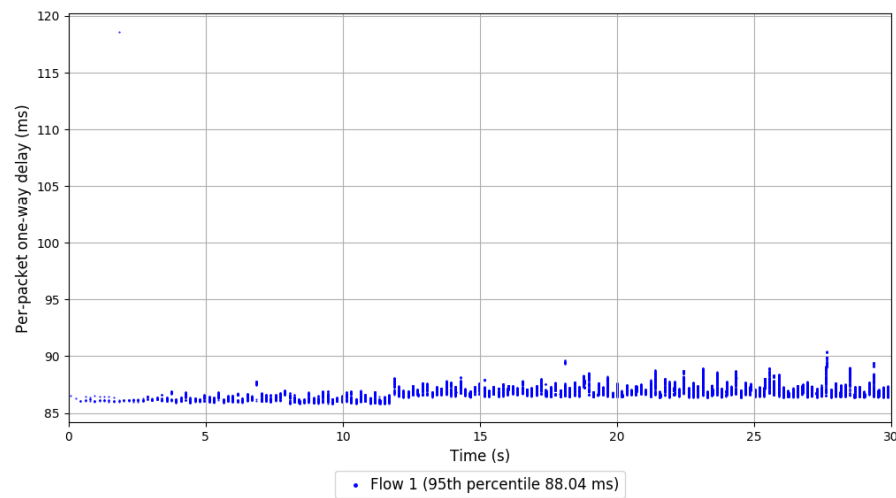
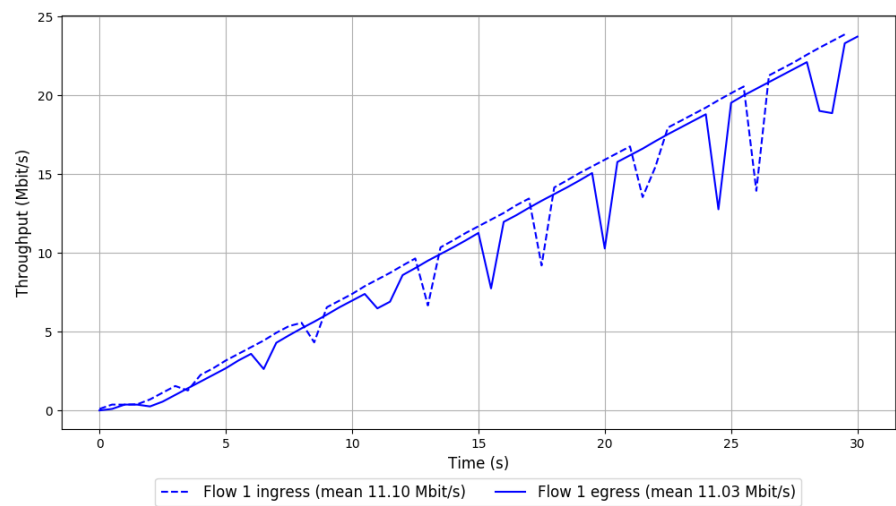
-- Flow 1:

Average throughput: 11.03 Mbit/s

95th percentile per-packet one-way delay: 88.037 ms

Loss rate: 1.20%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-05-30 19:02:09

End at: 2018-05-30 19:02:39

Local clock offset: 5.373 ms

Remote clock offset: 0.114 ms

Below is generated by plot.py at 2018-05-30 22:57:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 325.58 Mbit/s

95th percentile per-packet one-way delay: 101.723 ms

Loss rate: 0.98%

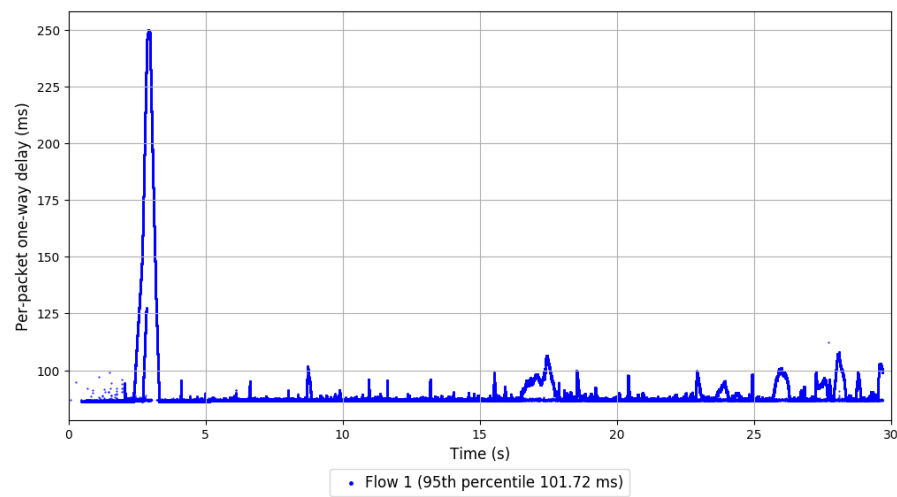
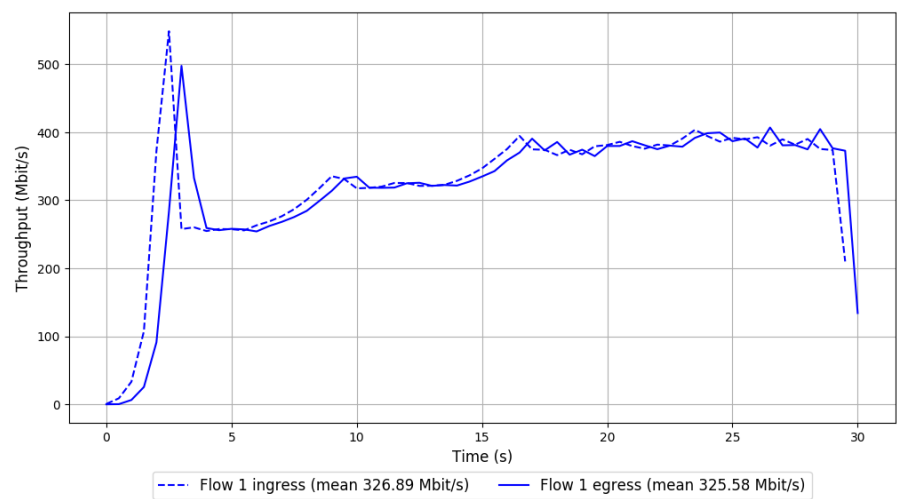
-- Flow 1:

Average throughput: 325.58 Mbit/s

95th percentile per-packet one-way delay: 101.723 ms

Loss rate: 0.98%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-05-30 19:22:13

End at: 2018-05-30 19:22:43

Local clock offset: 5.912 ms

Remote clock offset: 0.11 ms

Below is generated by plot.py at 2018-05-30 22:57:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 319.55 Mbit/s

95th percentile per-packet one-way delay: 123.617 ms

Loss rate: 1.08%

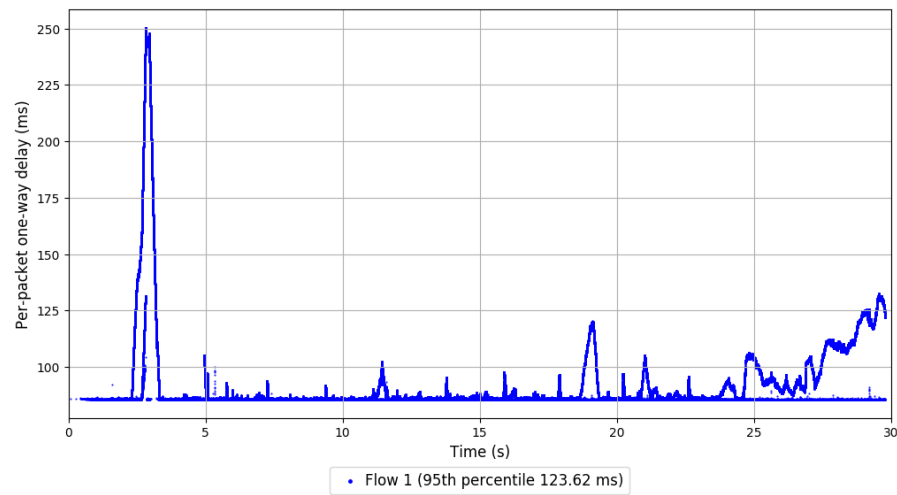
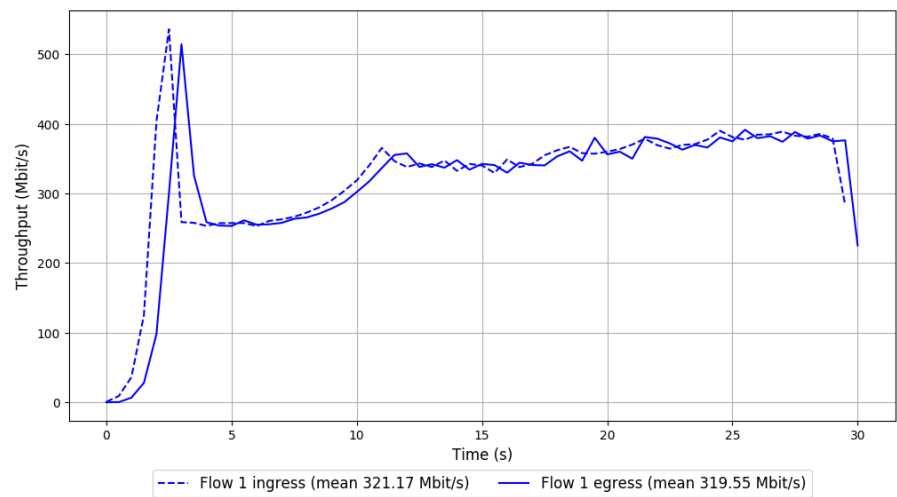
-- Flow 1:

Average throughput: 319.55 Mbit/s

95th percentile per-packet one-way delay: 123.617 ms

Loss rate: 1.08%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-05-30 19:42:37

End at: 2018-05-30 19:43:07

Local clock offset: 2.171 ms

Remote clock offset: 0.116 ms

Below is generated by plot.py at 2018-05-30 22:59:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 363.66 Mbit/s

95th percentile per-packet one-way delay: 217.836 ms

Loss rate: 0.86%

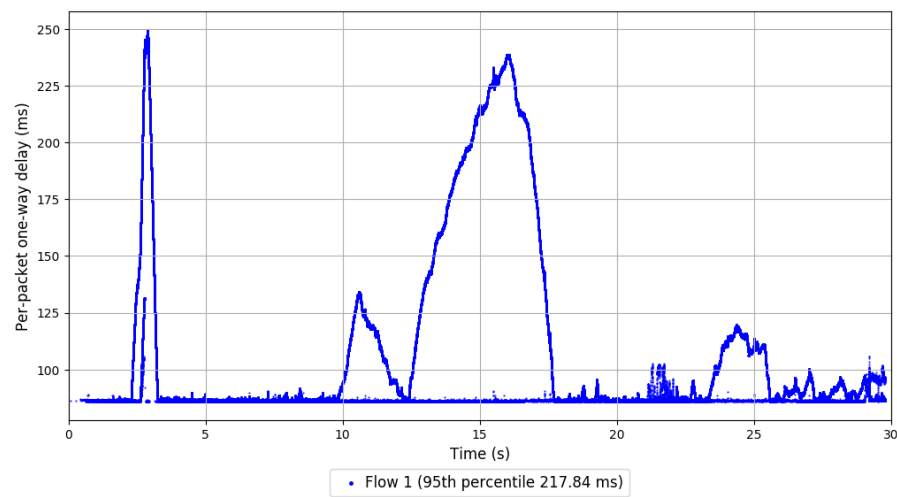
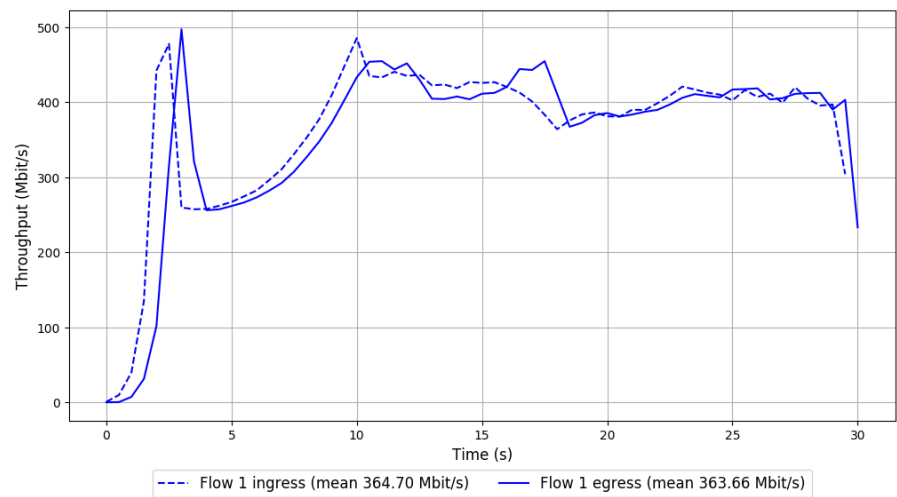
-- Flow 1:

Average throughput: 363.66 Mbit/s

95th percentile per-packet one-way delay: 217.836 ms

Loss rate: 0.86%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-05-30 20:03:11

End at: 2018-05-30 20:03:41

Local clock offset: 1.534 ms

Remote clock offset: 0.132 ms

Below is generated by plot.py at 2018-05-30 22:59:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 350.24 Mbit/s

95th percentile per-packet one-way delay: 124.758 ms

Loss rate: 0.88%

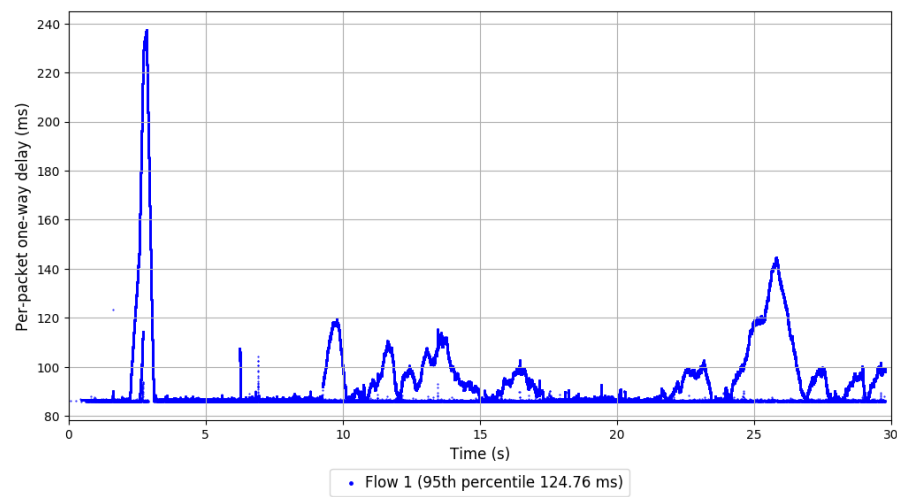
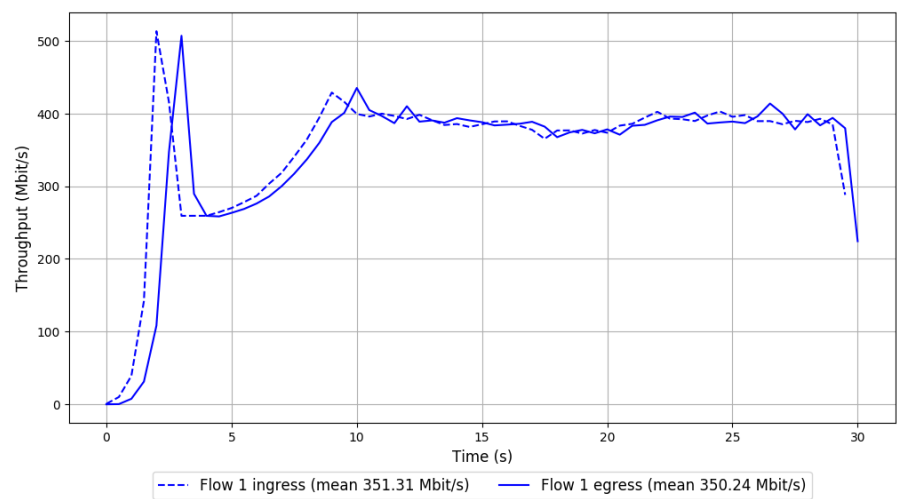
-- Flow 1:

Average throughput: 350.24 Mbit/s

95th percentile per-packet one-way delay: 124.758 ms

Loss rate: 0.88%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-05-30 20:23:42

End at: 2018-05-30 20:24:12

Local clock offset: 0.871 ms

Remote clock offset: 0.101 ms

Below is generated by plot.py at 2018-05-30 23:00:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 381.31 Mbit/s

95th percentile per-packet one-way delay: 239.691 ms

Loss rate: 1.29%

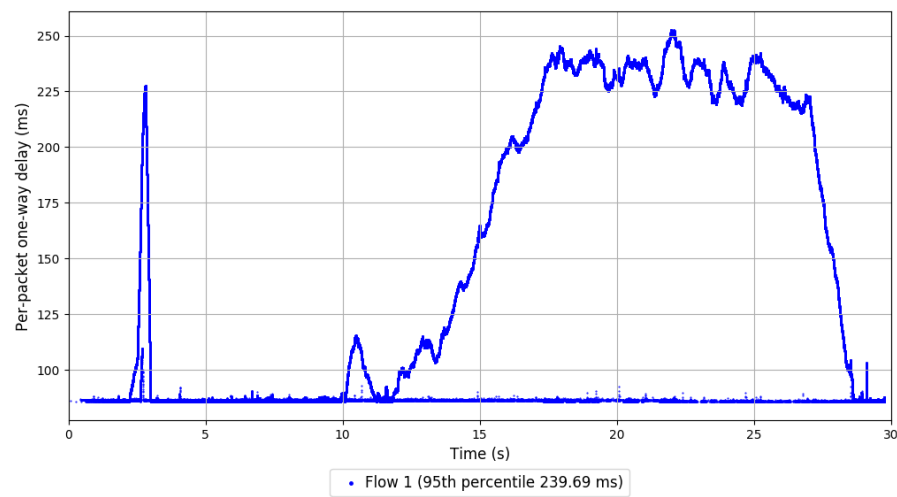
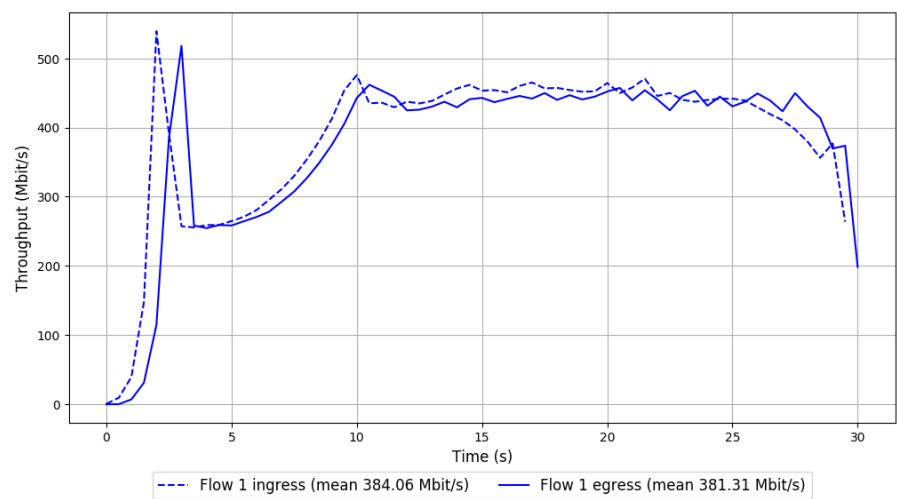
-- Flow 1:

Average throughput: 381.31 Mbit/s

95th percentile per-packet one-way delay: 239.691 ms

Loss rate: 1.29%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-05-30 20:44:18

End at: 2018-05-30 20:44:48

Local clock offset: 0.457 ms

Remote clock offset: 0.124 ms

Below is generated by plot.py at 2018-05-30 23:00:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 352.67 Mbit/s

95th percentile per-packet one-way delay: 110.950 ms

Loss rate: 0.97%

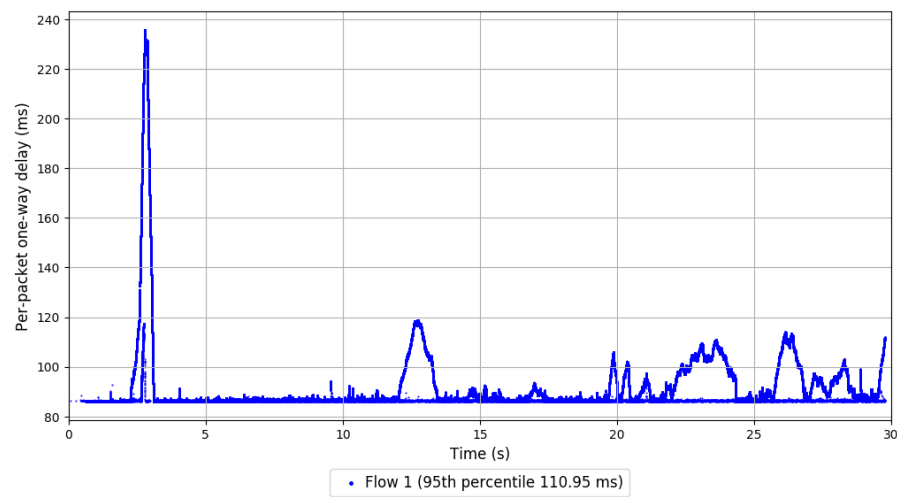
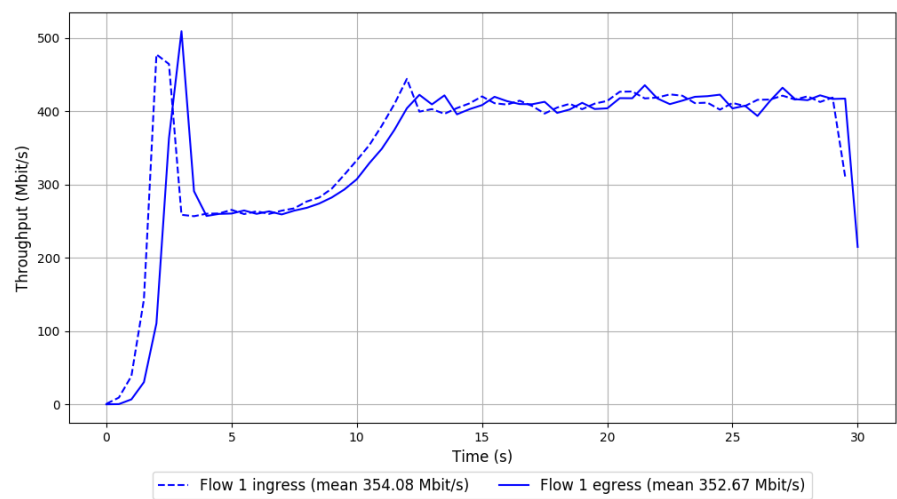
-- Flow 1:

Average throughput: 352.67 Mbit/s

95th percentile per-packet one-way delay: 110.950 ms

Loss rate: 0.97%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-05-30 21:04:34

End at: 2018-05-30 21:05:04

Local clock offset: 0.477 ms

Remote clock offset: 0.218 ms

Below is generated by plot.py at 2018-05-30 23:00:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 341.17 Mbit/s

95th percentile per-packet one-way delay: 111.141 ms

Loss rate: 0.77%

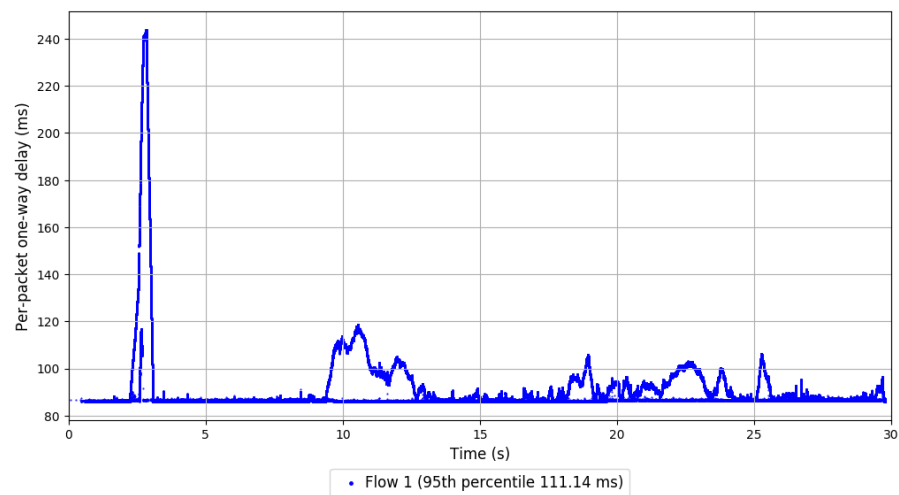
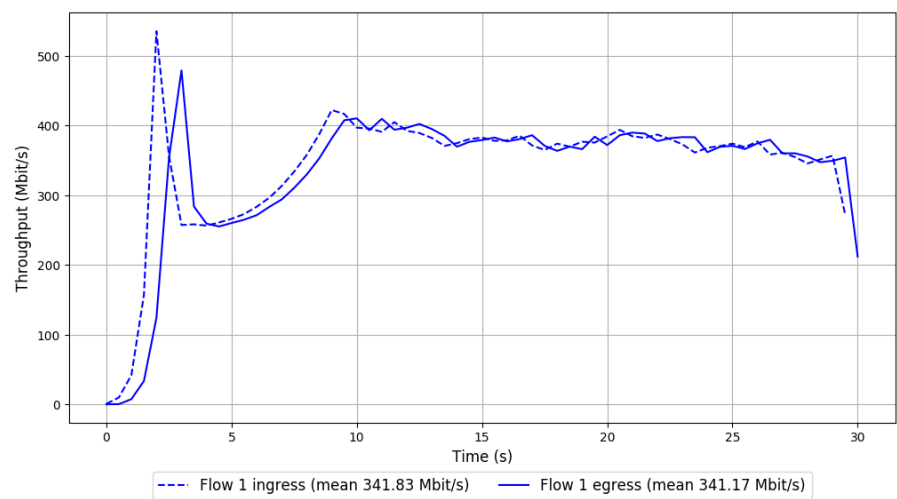
-- Flow 1:

Average throughput: 341.17 Mbit/s

95th percentile per-packet one-way delay: 111.141 ms

Loss rate: 0.77%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-05-30 21:25:01

End at: 2018-05-30 21:25:31

Local clock offset: 0.417 ms

Remote clock offset: 0.212 ms

Below is generated by plot.py at 2018-05-30 23:01:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 339.74 Mbit/s

95th percentile per-packet one-way delay: 144.565 ms

Loss rate: 1.17%

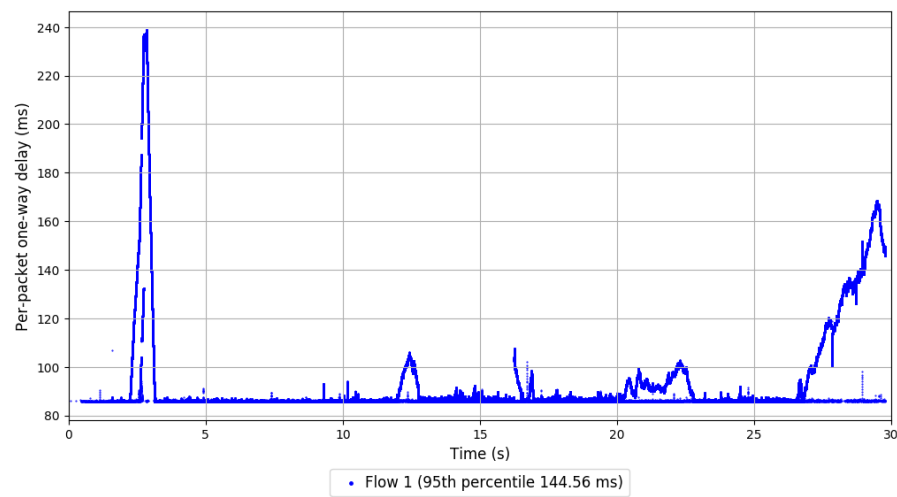
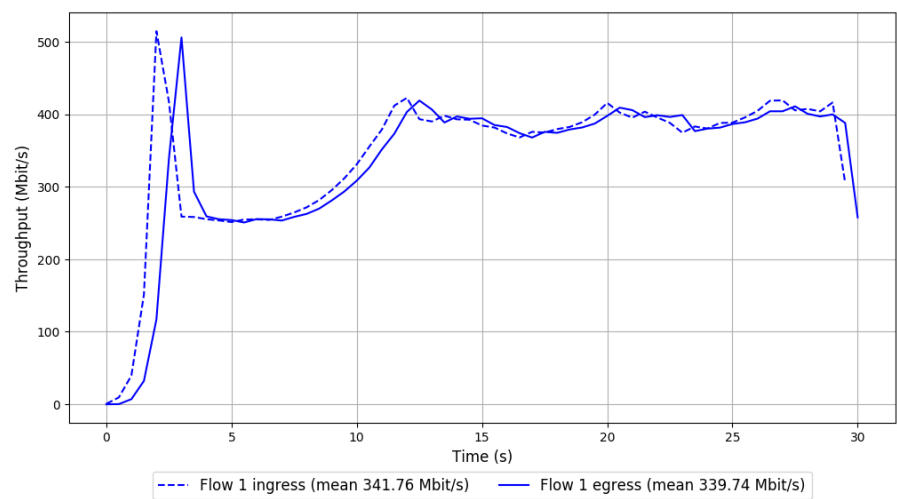
-- Flow 1:

Average throughput: 339.74 Mbit/s

95th percentile per-packet one-way delay: 144.565 ms

Loss rate: 1.17%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-05-30 21:45:33

End at: 2018-05-30 21:46:03

Local clock offset: 0.321 ms

Remote clock offset: 0.332 ms

Below is generated by plot.py at 2018-05-30 23:04:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 370.44 Mbit/s

95th percentile per-packet one-way delay: 132.942 ms

Loss rate: 0.89%

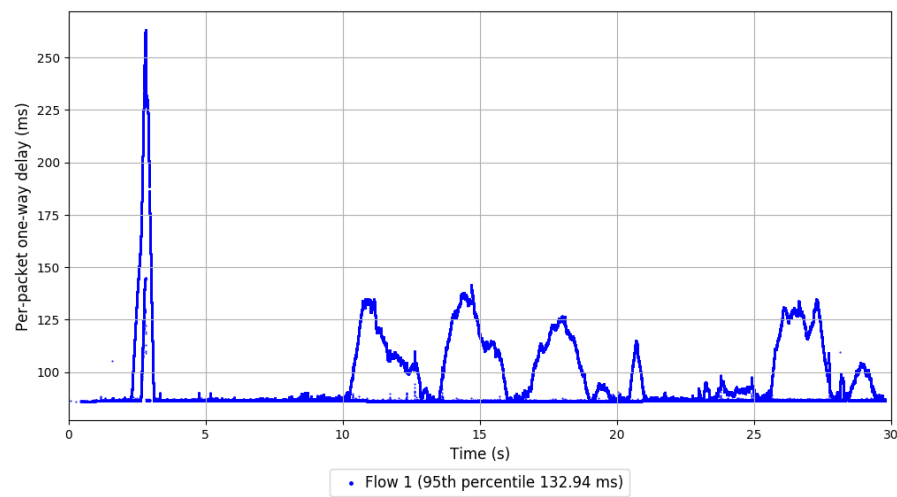
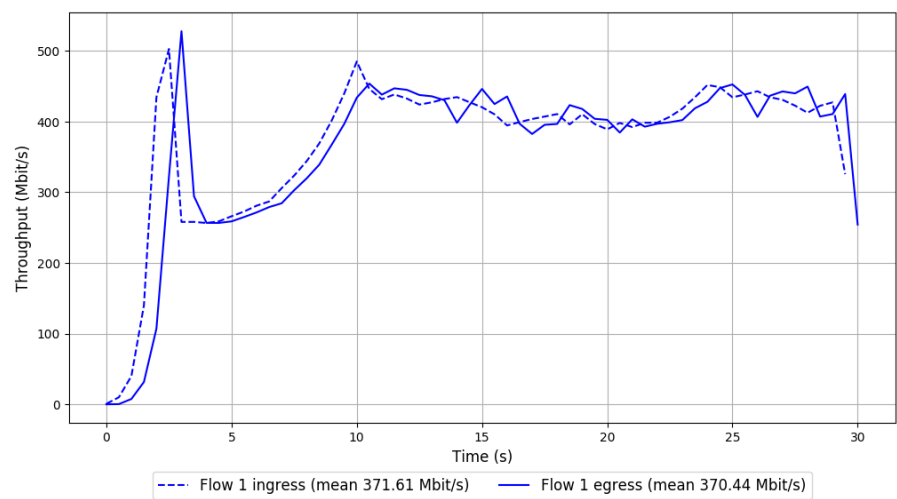
-- Flow 1:

Average throughput: 370.44 Mbit/s

95th percentile per-packet one-way delay: 132.942 ms

Loss rate: 0.89%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-05-30 22:06:01

End at: 2018-05-30 22:06:31

Local clock offset: -0.249 ms

Remote clock offset: 0.313 ms

Below is generated by plot.py at 2018-05-30 23:04:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 338.89 Mbit/s

95th percentile per-packet one-way delay: 156.350 ms

Loss rate: 1.06%

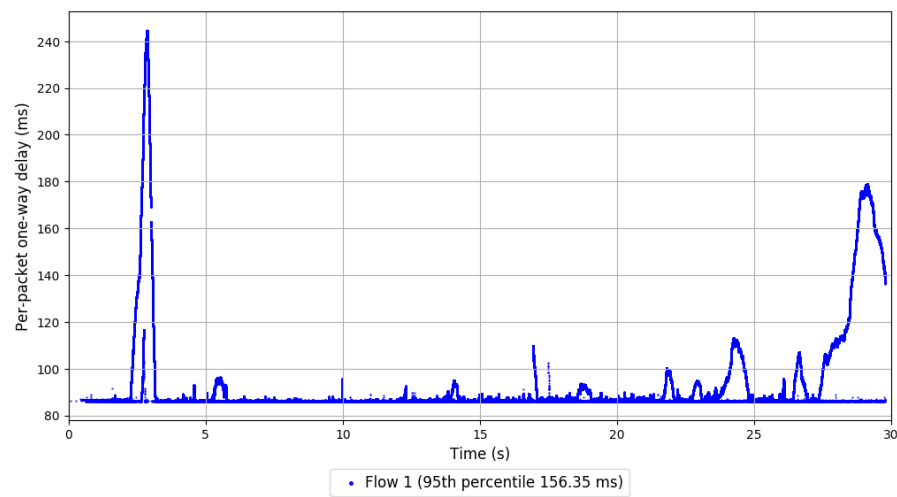
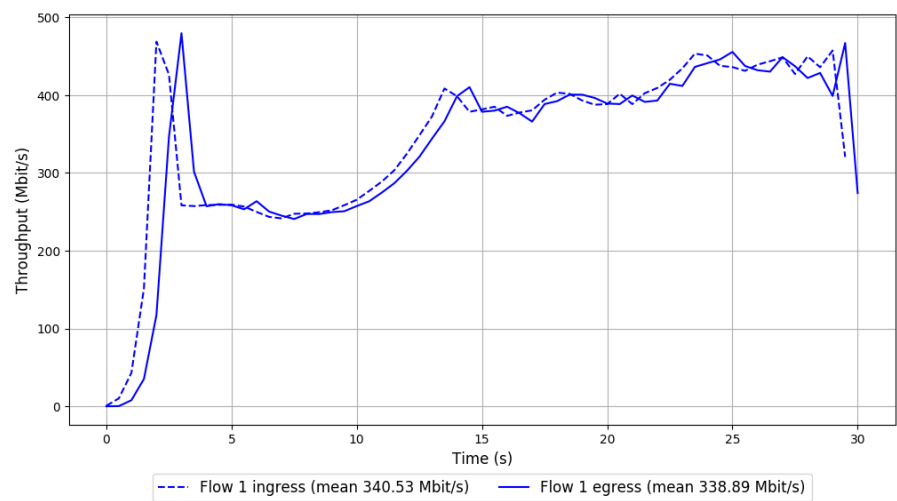
-- Flow 1:

Average throughput: 338.89 Mbit/s

95th percentile per-packet one-way delay: 156.350 ms

Loss rate: 1.06%

Run 10: Report of PCC-Allegro — Data Link

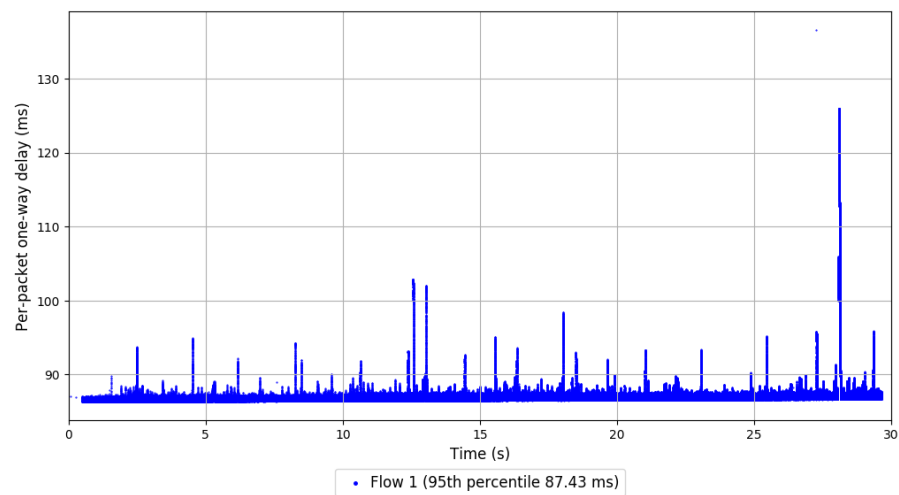
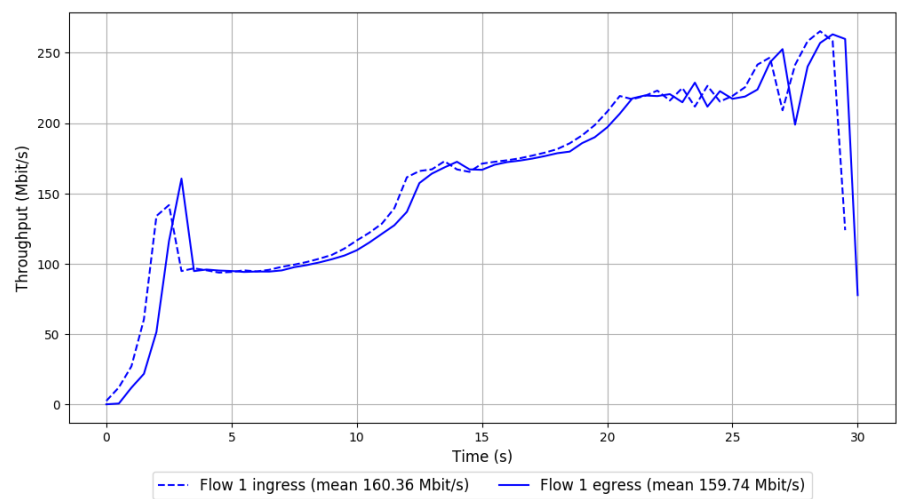


```
Run 1: Statistics of PCC-Expr

Start at: 2018-05-30 18:53:05
End at: 2018-05-30 18:53:35
Local clock offset: 8.955 ms
Remote clock offset: 0.051 ms

# Below is generated by plot.py at 2018-05-30 23:04:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 159.74 Mbit/s
95th percentile per-packet one-way delay: 87.431 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 159.74 Mbit/s
95th percentile per-packet one-way delay: 87.431 ms
Loss rate: 0.97%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-05-30 19:13:14

End at: 2018-05-30 19:13:44

Local clock offset: 4.689 ms

Remote clock offset: 0.08 ms

Below is generated by plot.py at 2018-05-30 23:05:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.09 Mbit/s

95th percentile per-packet one-way delay: 86.824 ms

Loss rate: 0.87%

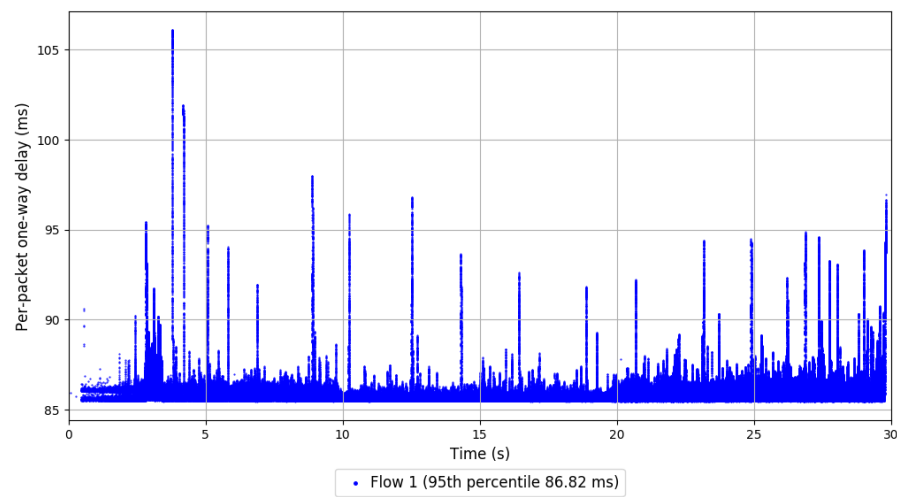
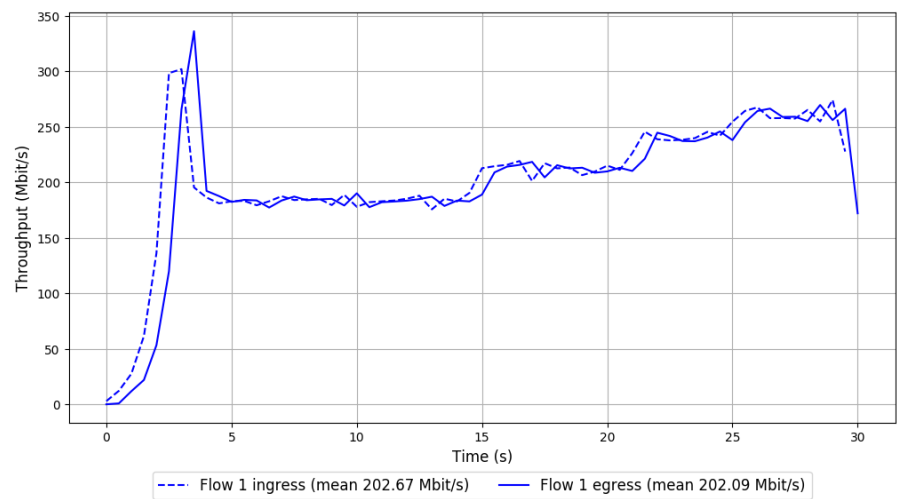
-- Flow 1:

Average throughput: 202.09 Mbit/s

95th percentile per-packet one-way delay: 86.824 ms

Loss rate: 0.87%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-05-30 19:33:27

End at: 2018-05-30 19:33:57

Local clock offset: 2.499 ms

Remote clock offset: 0.138 ms

Below is generated by plot.py at 2018-05-30 23:08:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 230.17 Mbit/s

95th percentile per-packet one-way delay: 86.886 ms

Loss rate: 0.69%

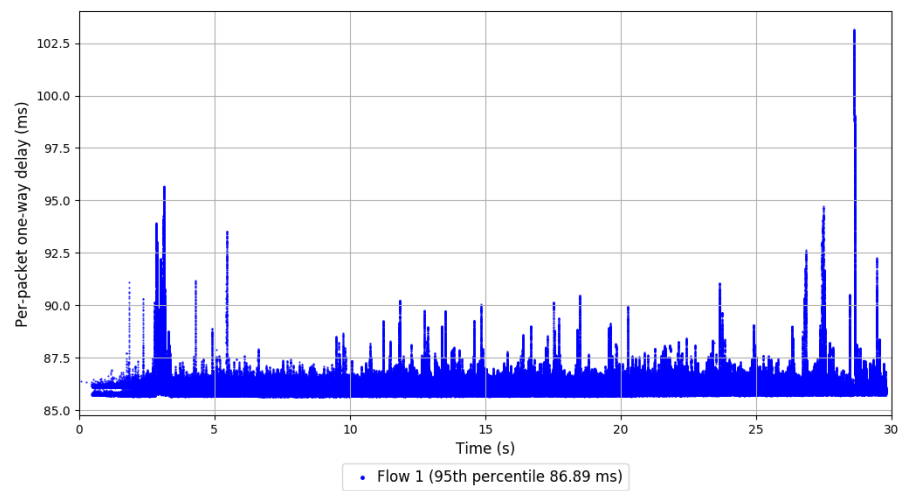
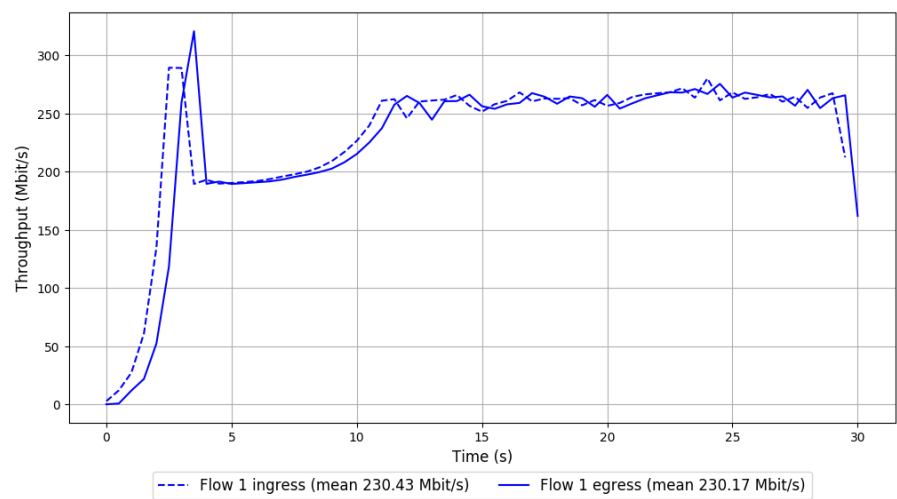
-- Flow 1:

Average throughput: 230.17 Mbit/s

95th percentile per-packet one-way delay: 86.886 ms

Loss rate: 0.69%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-05-30 19:53:58

End at: 2018-05-30 19:54:28

Local clock offset: 2.914 ms

Remote clock offset: 0.131 ms

Below is generated by plot.py at 2018-05-30 23:13:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 323.52 Mbit/s

95th percentile per-packet one-way delay: 346.589 ms

Loss rate: 18.25%

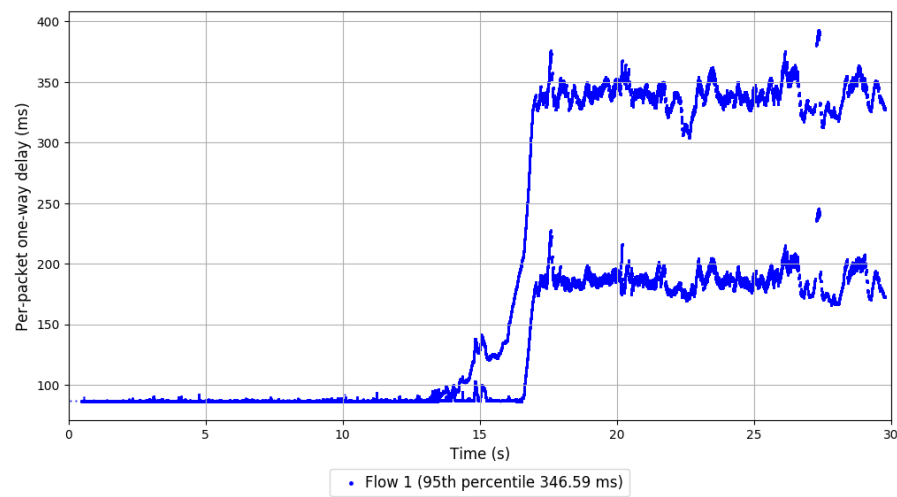
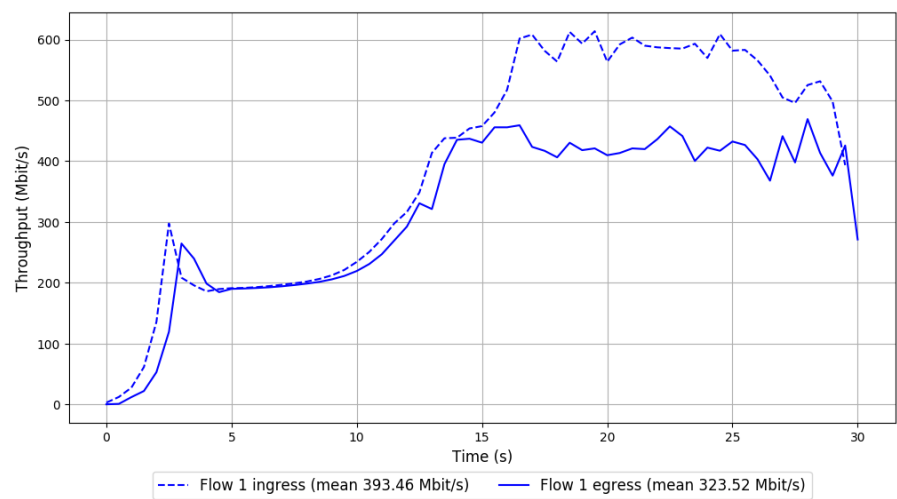
-- Flow 1:

Average throughput: 323.52 Mbit/s

95th percentile per-packet one-way delay: 346.589 ms

Loss rate: 18.25%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-05-30 20:14:37

End at: 2018-05-30 20:15:07

Local clock offset: 1.18 ms

Remote clock offset: 0.144 ms

Below is generated by plot.py at 2018-05-30 23:13:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 237.26 Mbit/s

95th percentile per-packet one-way delay: 90.162 ms

Loss rate: 0.76%

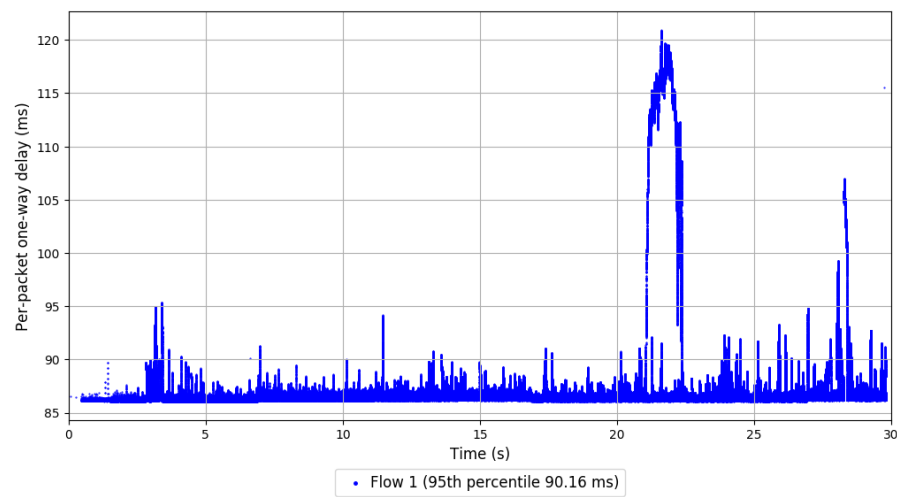
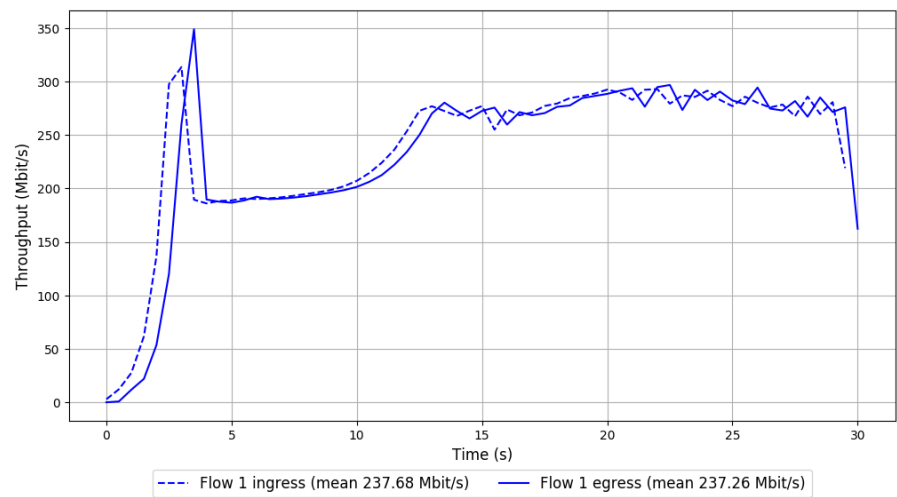
-- Flow 1:

Average throughput: 237.26 Mbit/s

95th percentile per-packet one-way delay: 90.162 ms

Loss rate: 0.76%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-05-30 20:35:02

End at: 2018-05-30 20:35:32

Local clock offset: 0.891 ms

Remote clock offset: 0.173 ms

Below is generated by plot.py at 2018-05-30 23:13:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 252.24 Mbit/s

95th percentile per-packet one-way delay: 89.155 ms

Loss rate: 0.67%

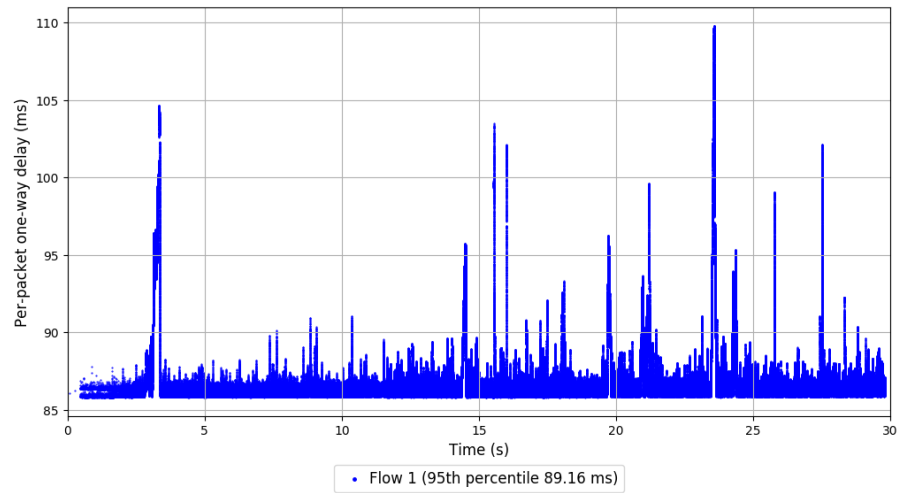
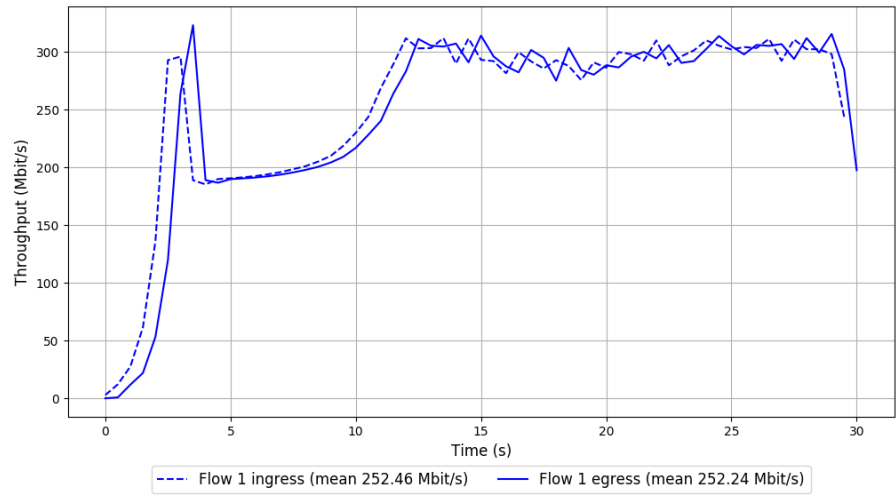
-- Flow 1:

Average throughput: 252.24 Mbit/s

95th percentile per-packet one-way delay: 89.155 ms

Loss rate: 0.67%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-05-30 20:55:39

End at: 2018-05-30 20:56:09

Local clock offset: 0.605 ms

Remote clock offset: 0.216 ms

Below is generated by plot.py at 2018-05-30 23:13:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 263.51 Mbit/s

95th percentile per-packet one-way delay: 91.351 ms

Loss rate: 0.70%

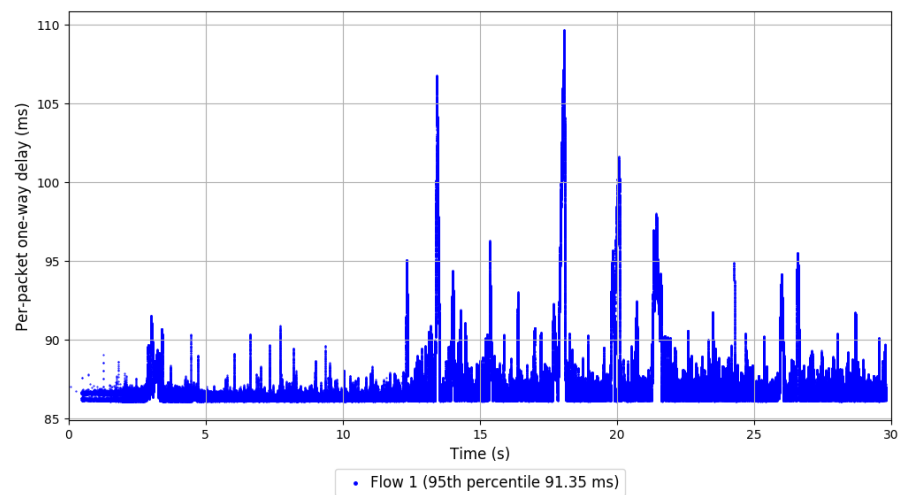
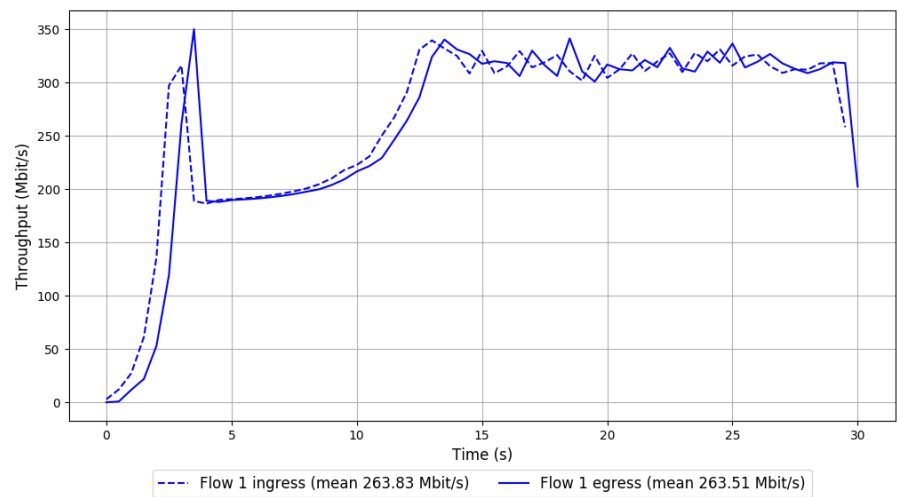
-- Flow 1:

Average throughput: 263.51 Mbit/s

95th percentile per-packet one-way delay: 91.351 ms

Loss rate: 0.70%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-05-30 21:15:50

End at: 2018-05-30 21:16:20

Local clock offset: 0.375 ms

Remote clock offset: 0.195 ms

Below is generated by plot.py at 2018-05-30 23:13:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.82 Mbit/s

95th percentile per-packet one-way delay: 128.499 ms

Loss rate: 0.65%

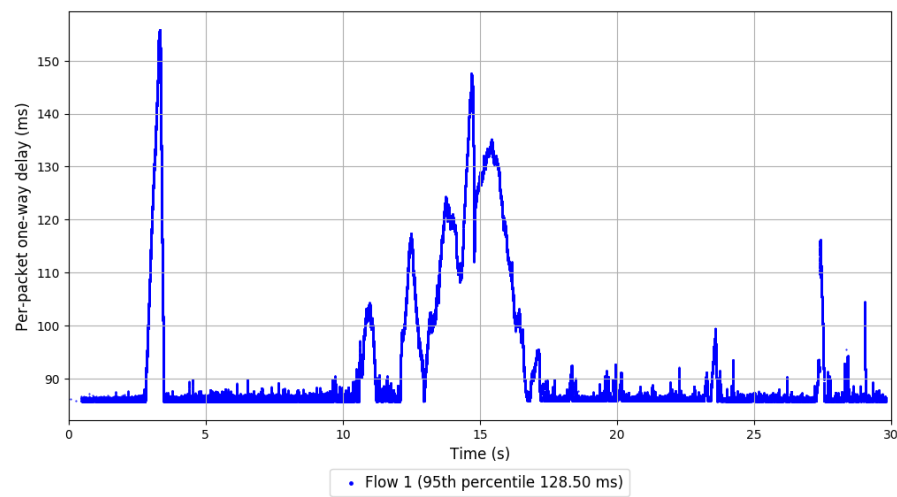
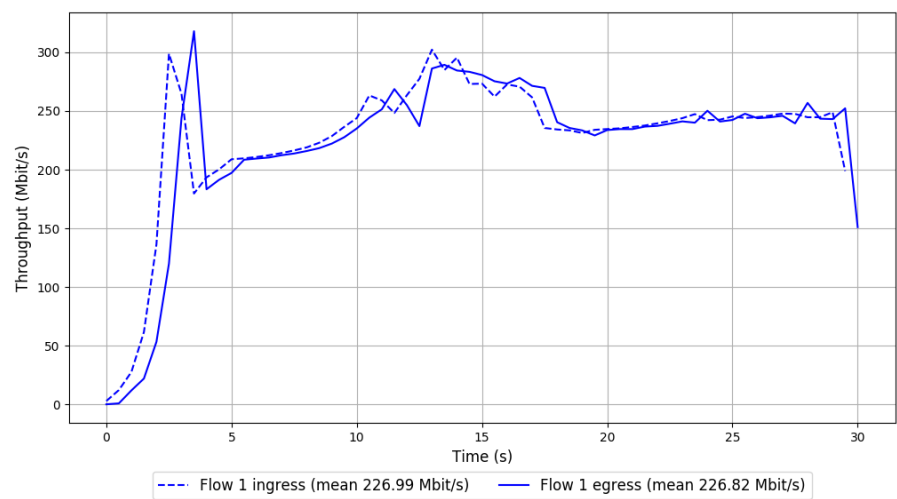
-- Flow 1:

Average throughput: 226.82 Mbit/s

95th percentile per-packet one-way delay: 128.499 ms

Loss rate: 0.65%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-05-30 21:36:23

End at: 2018-05-30 21:36:53

Local clock offset: 0.937 ms

Remote clock offset: 0.243 ms

Below is generated by plot.py at 2018-05-30 23:13:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.98 Mbit/s

95th percentile per-packet one-way delay: 87.532 ms

Loss rate: 0.79%

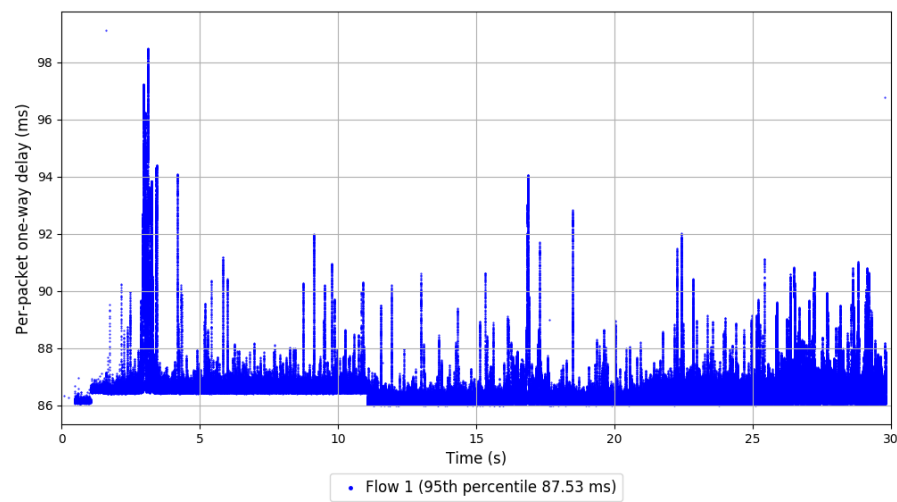
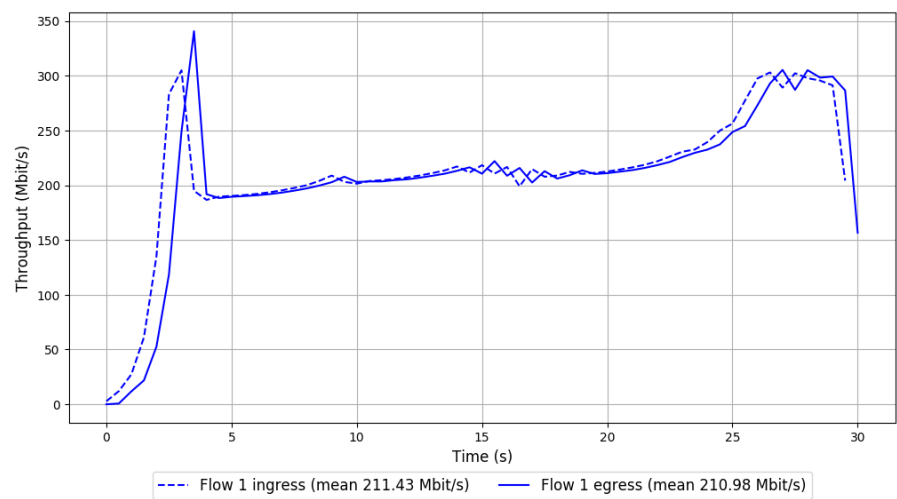
-- Flow 1:

Average throughput: 210.98 Mbit/s

95th percentile per-packet one-way delay: 87.532 ms

Loss rate: 0.79%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-05-30 21:56:52

End at: 2018-05-30 21:57:22

Local clock offset: -0.361 ms

Remote clock offset: 0.261 ms

Below is generated by plot.py at 2018-05-30 23:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 283.44 Mbit/s

95th percentile per-packet one-way delay: 130.006 ms

Loss rate: 1.02%

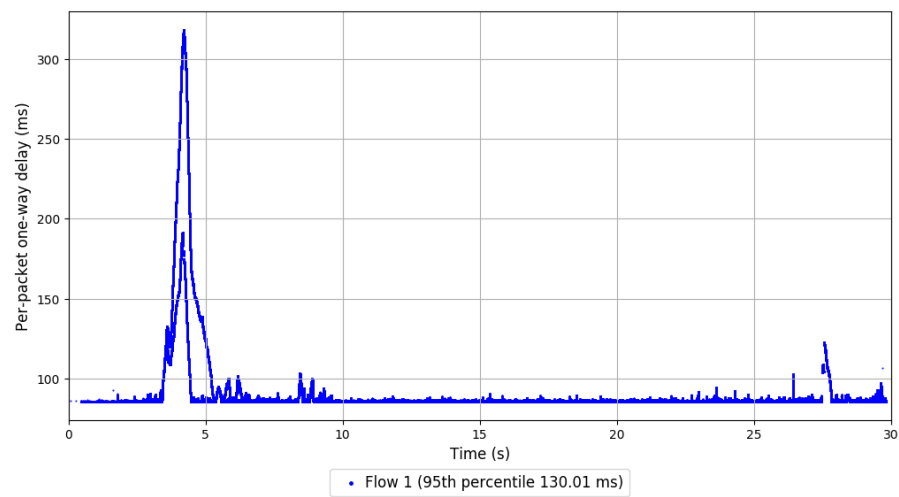
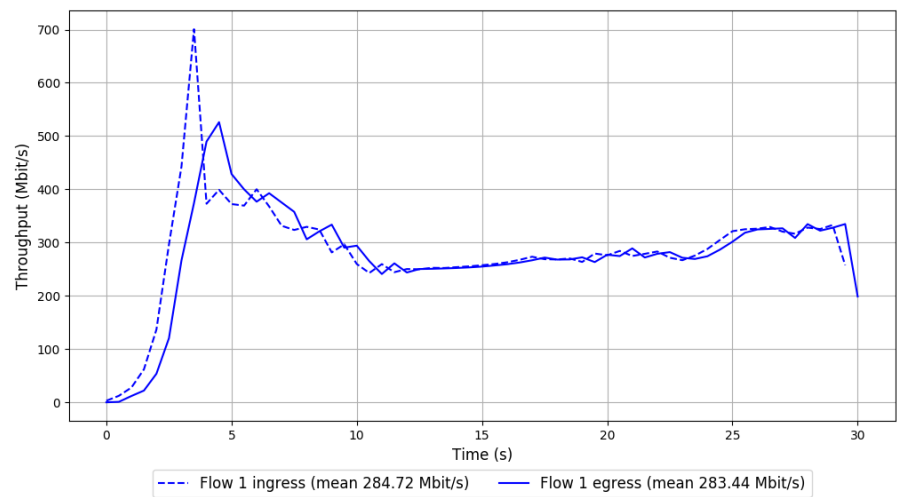
-- Flow 1:

Average throughput: 283.44 Mbit/s

95th percentile per-packet one-way delay: 130.006 ms

Loss rate: 1.02%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

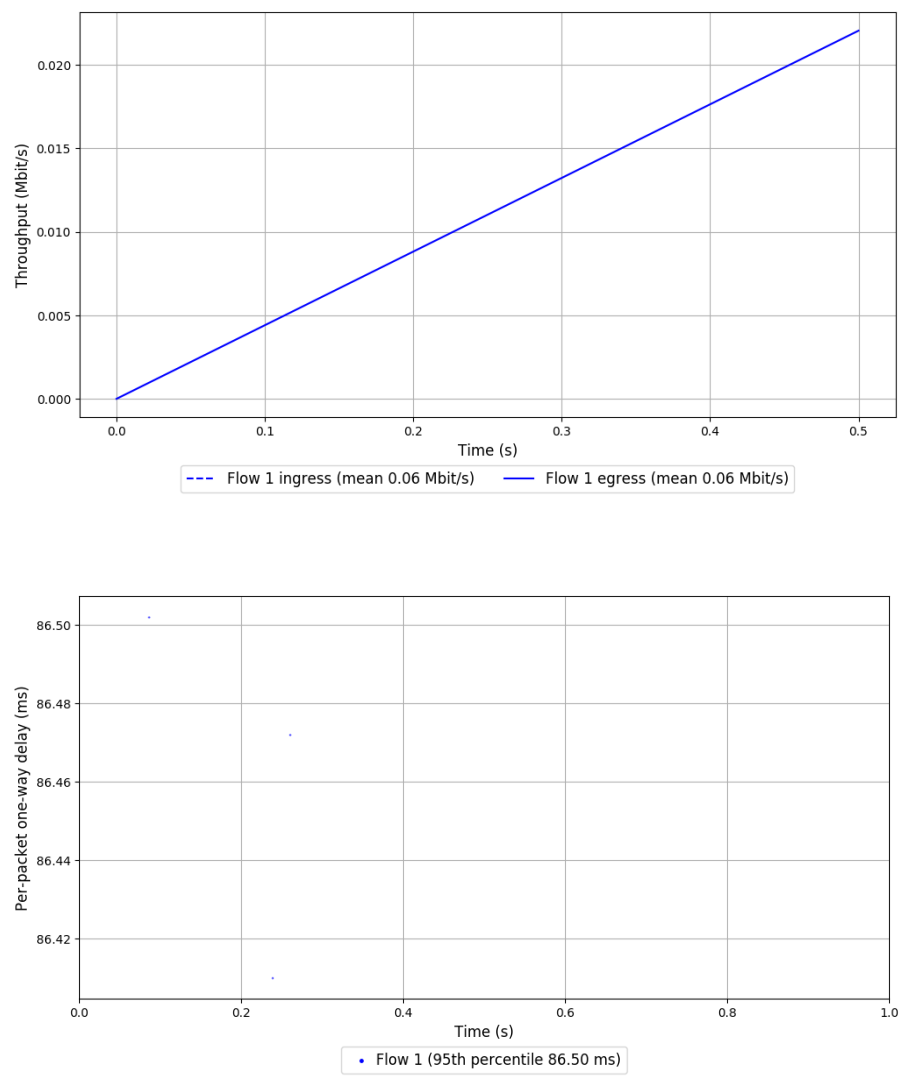
Start at: 2018-05-30 18:50:42

End at: 2018-05-30 18:51:12

Local clock offset: 10.968 ms

Remote clock offset: 0.067 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-05-30 19:10:45

End at: 2018-05-30 19:11:15

Local clock offset: 4.68 ms

Remote clock offset: 0.1 ms

Below is generated by plot.py at 2018-05-30 23:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.70 Mbit/s

95th percentile per-packet one-way delay: 86.287 ms

Loss rate: 0.86%

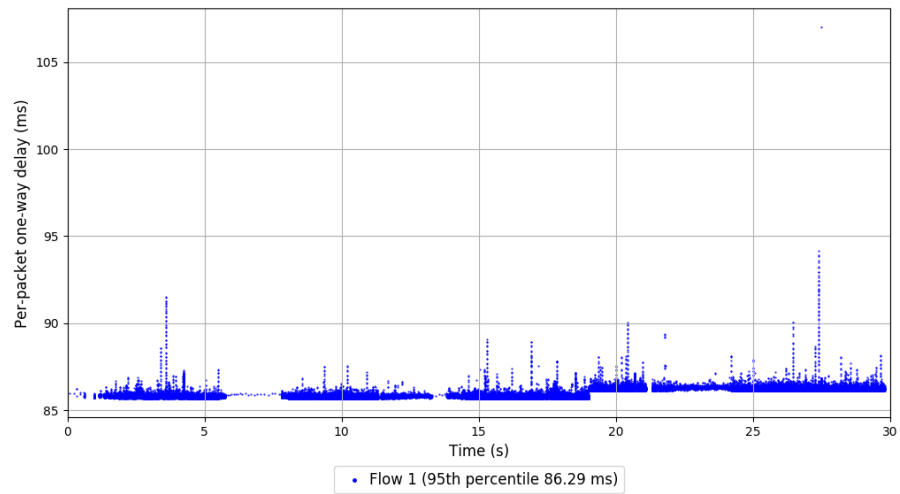
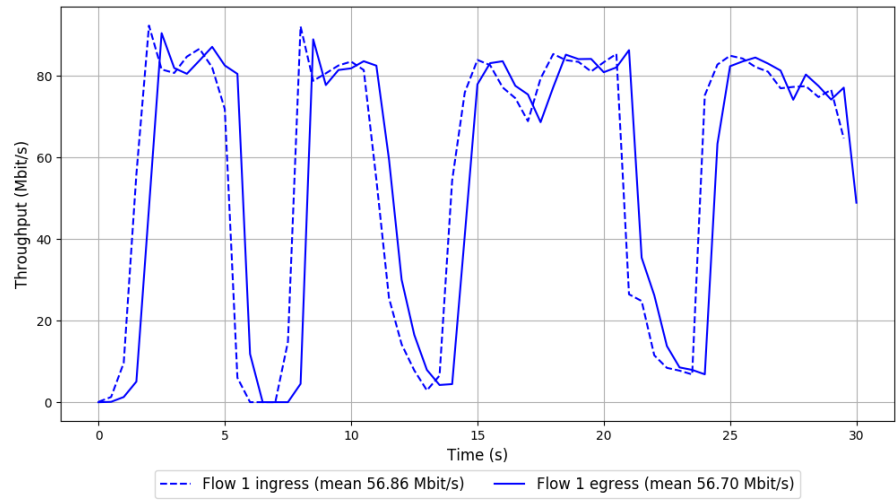
-- Flow 1:

Average throughput: 56.70 Mbit/s

95th percentile per-packet one-way delay: 86.287 ms

Loss rate: 0.86%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-05-30 19:30:55

End at: 2018-05-30 19:31:25

Local clock offset: 3.115 ms

Remote clock offset: 0.077 ms

Below is generated by plot.py at 2018-05-30 23:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.75 Mbit/s

95th percentile per-packet one-way delay: 86.618 ms

Loss rate: 0.78%

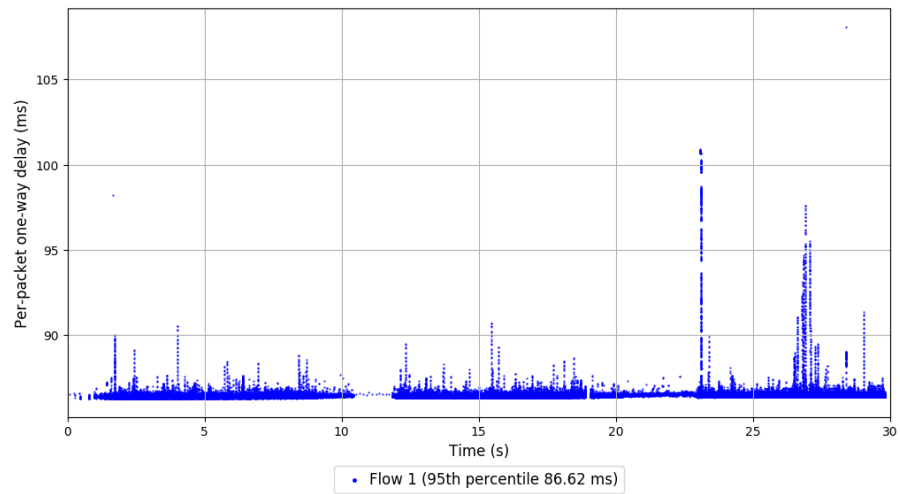
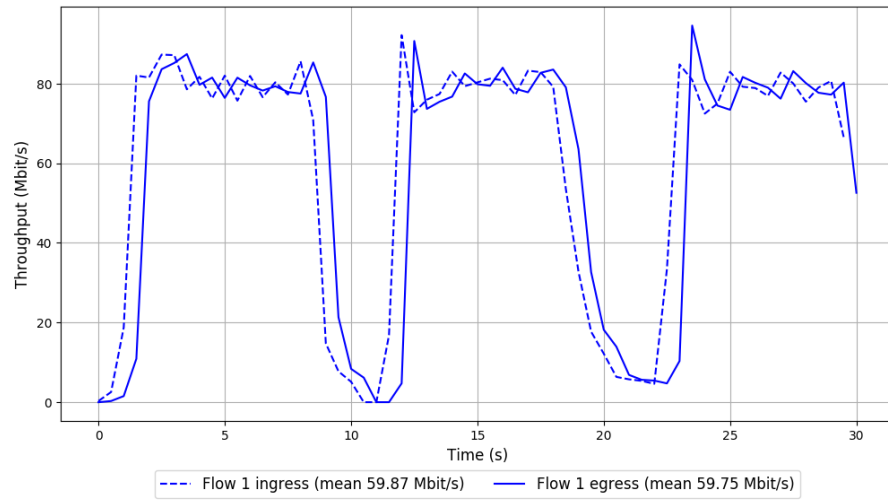
-- Flow 1:

Average throughput: 59.75 Mbit/s

95th percentile per-packet one-way delay: 86.618 ms

Loss rate: 0.78%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-05-30 19:51:27

End at: 2018-05-30 19:51:57

Local clock offset: 2.765 ms

Remote clock offset: 0.074 ms

Below is generated by plot.py at 2018-05-30 23:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.33 Mbit/s

95th percentile per-packet one-way delay: 86.784 ms

Loss rate: 0.82%

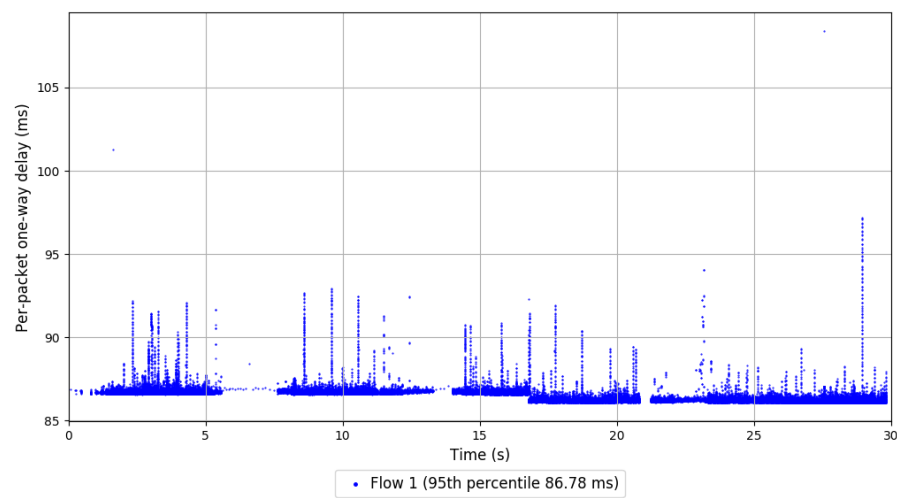
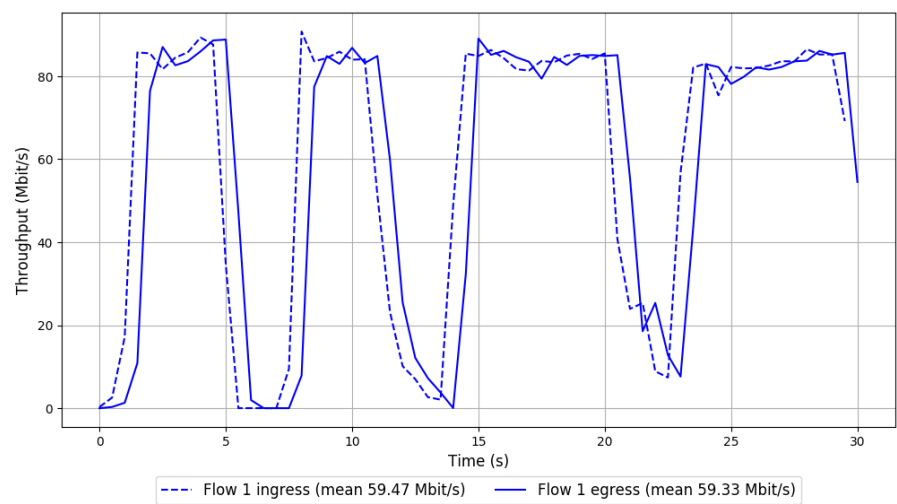
-- Flow 1:

Average throughput: 59.33 Mbit/s

95th percentile per-packet one-way delay: 86.784 ms

Loss rate: 0.82%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-05-30 20:12:05

End at: 2018-05-30 20:12:35

Local clock offset: 1.277 ms

Remote clock offset: 0.122 ms

Below is generated by plot.py at 2018-05-30 23:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.83 Mbit/s

95th percentile per-packet one-way delay: 86.536 ms

Loss rate: 0.78%

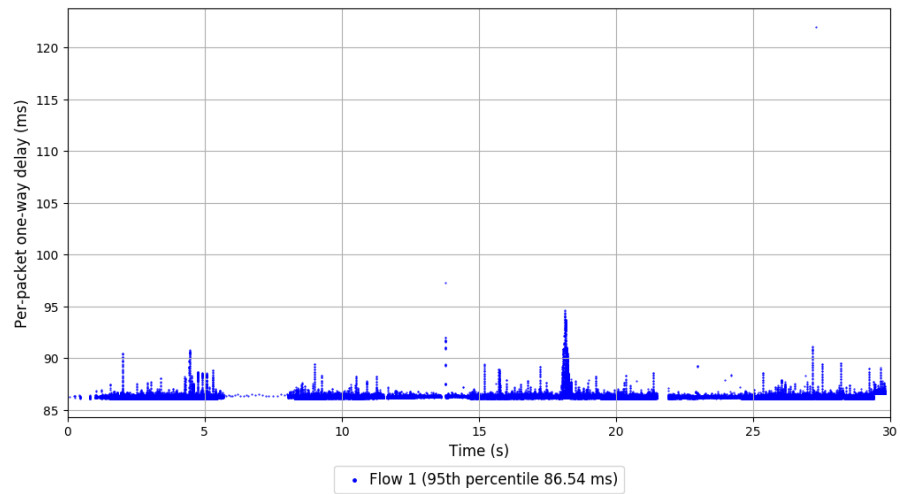
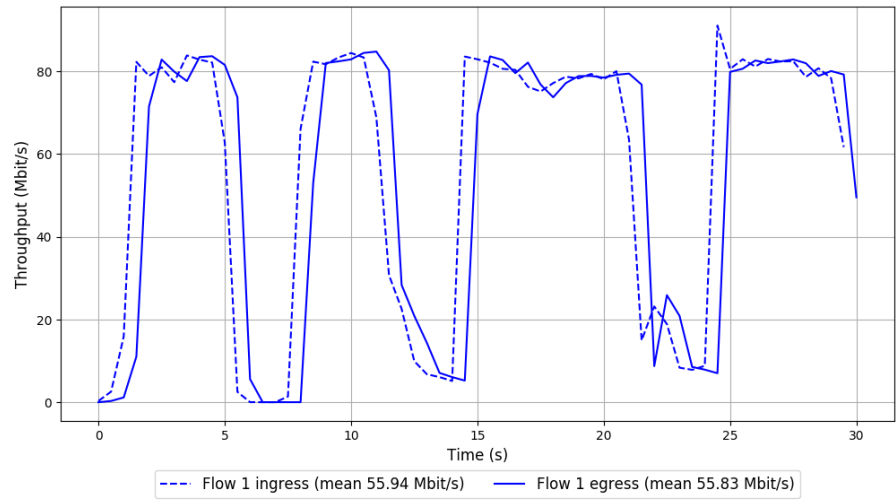
-- Flow 1:

Average throughput: 55.83 Mbit/s

95th percentile per-packet one-way delay: 86.536 ms

Loss rate: 0.78%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-05-30 20:32:35

End at: 2018-05-30 20:33:05

Local clock offset: 1.374 ms

Remote clock offset: 0.191 ms

Below is generated by plot.py at 2018-05-30 23:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.08 Mbit/s

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

Loss rate: 0.67%

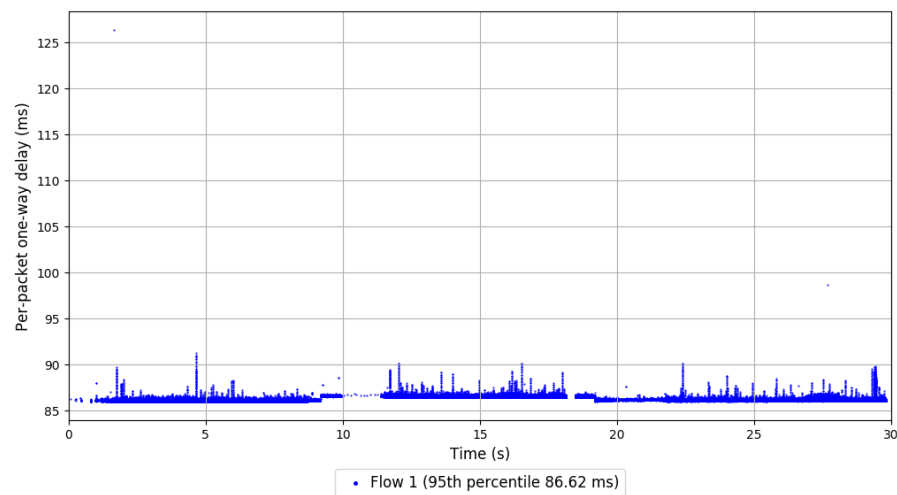
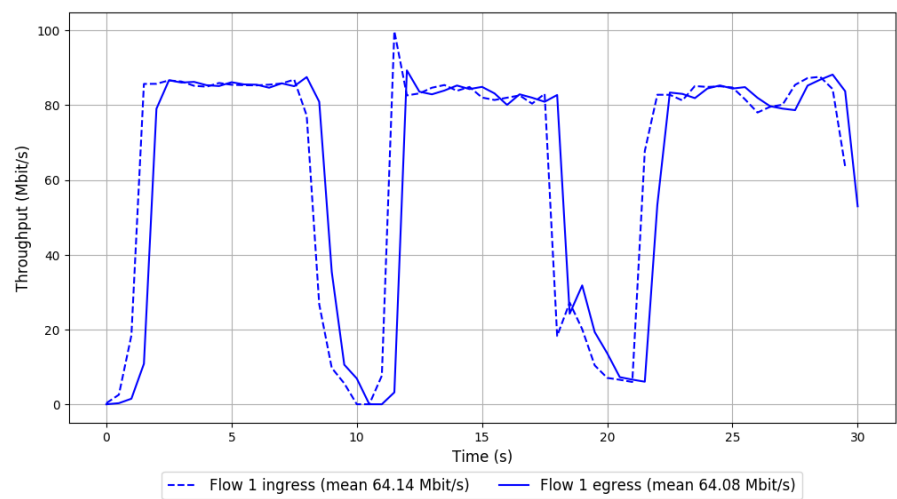
-- Flow 1:

Average throughput: 64.08 Mbit/s

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

Loss rate: 0.67%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-05-30 20:53:08

End at: 2018-05-30 20:53:38

Local clock offset: 0.203 ms

Remote clock offset: 0.171 ms

Below is generated by plot.py at 2018-05-30 23:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.21 Mbit/s

95th percentile per-packet one-way delay: 86.018 ms

Loss rate: 0.85%

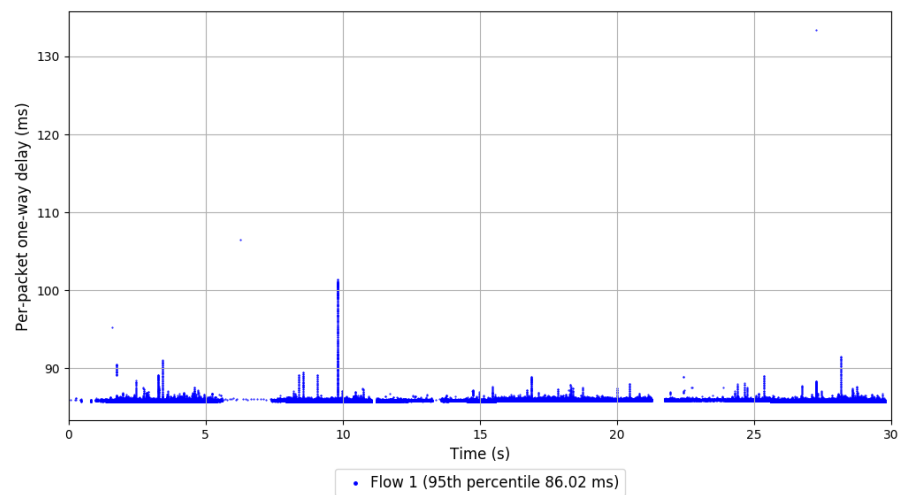
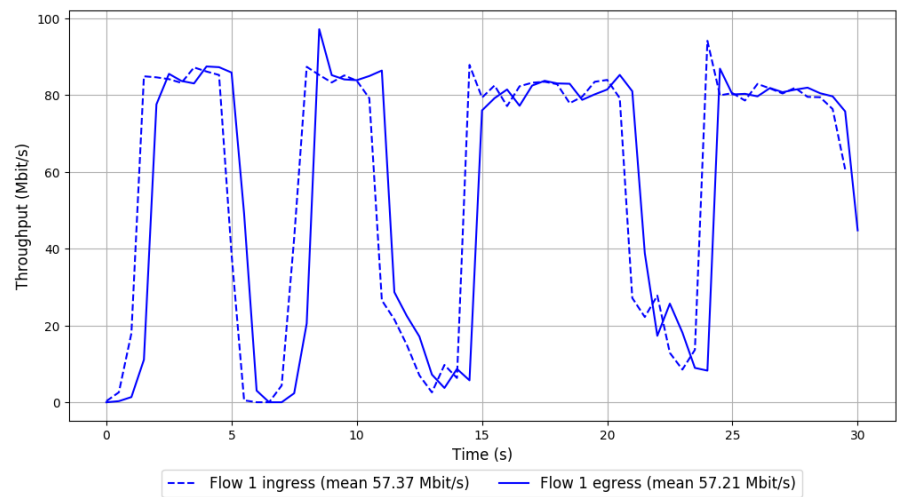
-- Flow 1:

Average throughput: 57.21 Mbit/s

95th percentile per-packet one-way delay: 86.018 ms

Loss rate: 0.85%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-05-30 21:13:23

End at: 2018-05-30 21:13:54

Local clock offset: 0.586 ms

Remote clock offset: 0.178 ms

Below is generated by plot.py at 2018-05-30 23:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.10 Mbit/s

95th percentile per-packet one-way delay: 86.563 ms

Loss rate: 0.84%

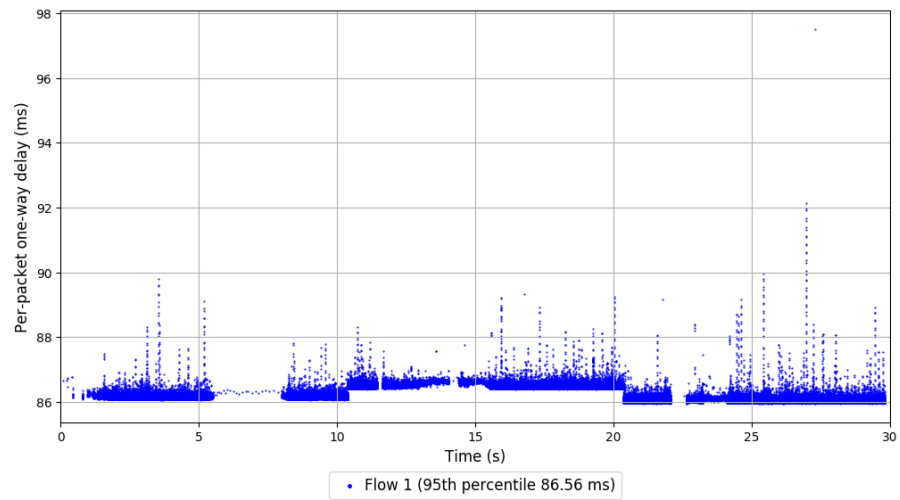
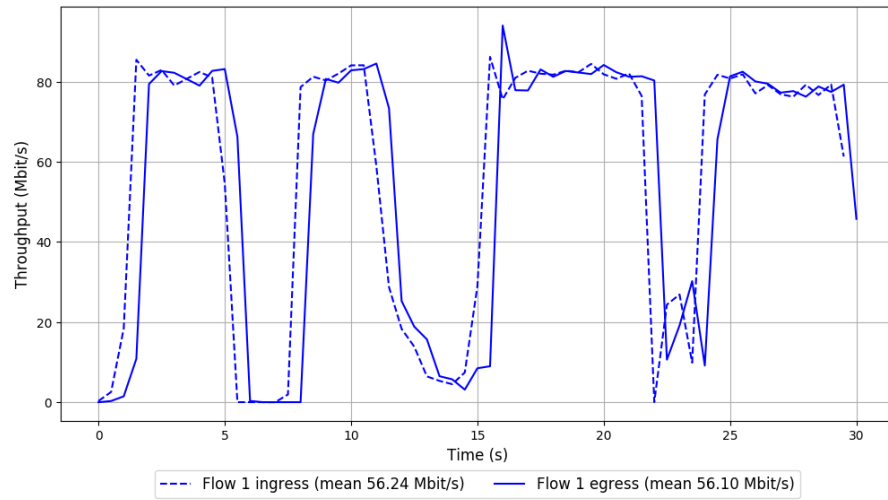
-- Flow 1:

Average throughput: 56.10 Mbit/s

95th percentile per-packet one-way delay: 86.563 ms

Loss rate: 0.84%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-05-30 21:33:51

End at: 2018-05-30 21:34:21

Local clock offset: 0.543 ms

Remote clock offset: 0.225 ms

Below is generated by plot.py at 2018-05-30 23:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.32 Mbit/s

95th percentile per-packet one-way delay: 85.894 ms

Loss rate: 0.84%

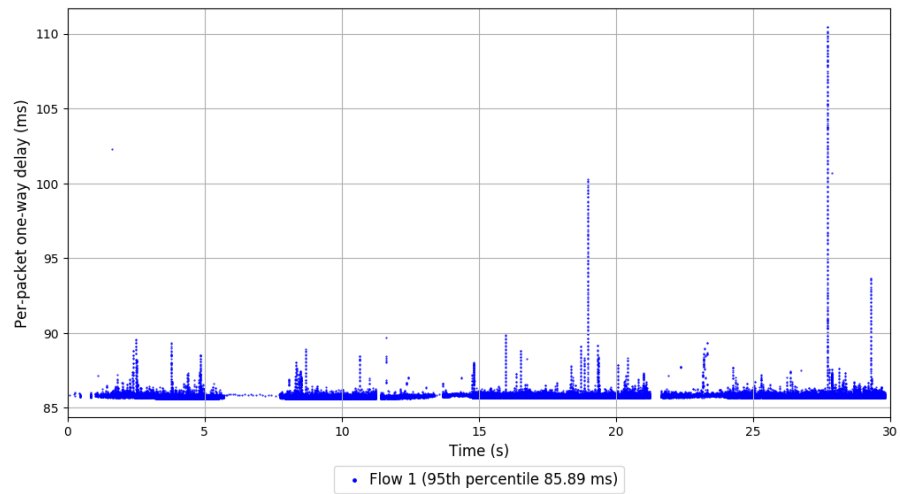
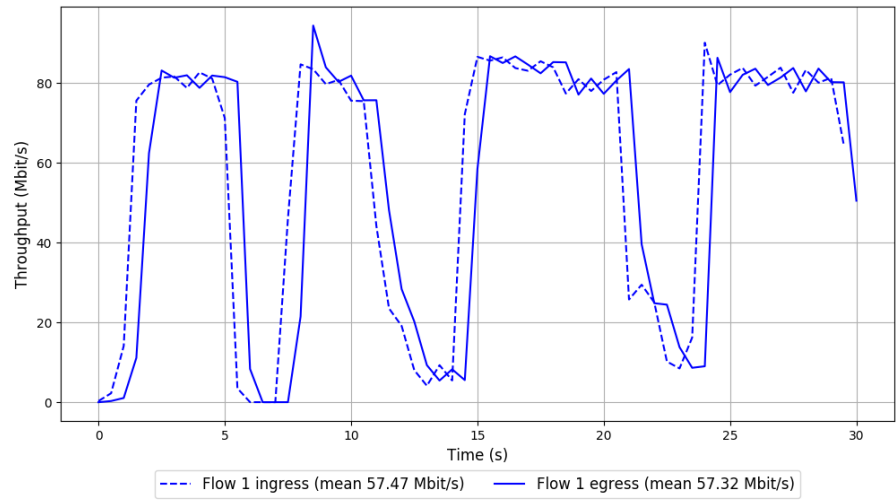
-- Flow 1:

Average throughput: 57.32 Mbit/s

95th percentile per-packet one-way delay: 85.894 ms

Loss rate: 0.84%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-05-30 21:54:24

End at: 2018-05-30 21:54:54

Local clock offset: -0.048 ms

Remote clock offset: 0.284 ms

Below is generated by plot.py at 2018-05-30 23:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.99 Mbit/s

95th percentile per-packet one-way delay: 86.519 ms

Loss rate: 0.92%

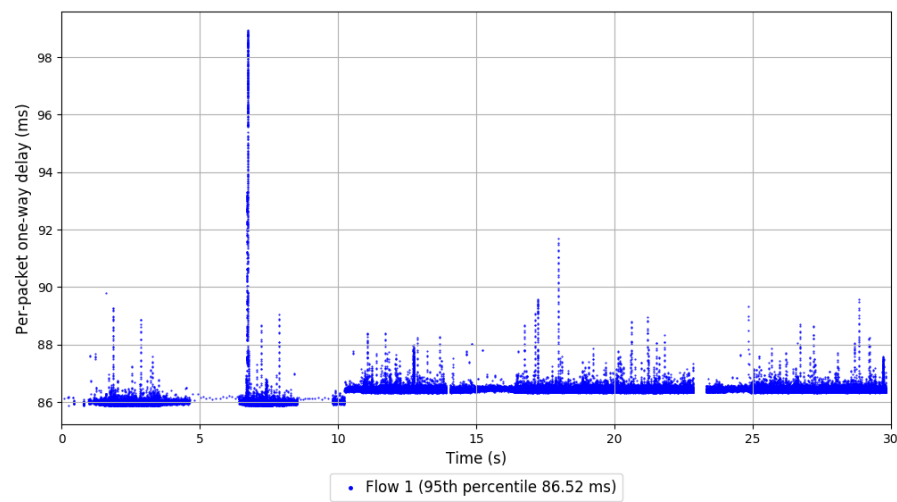
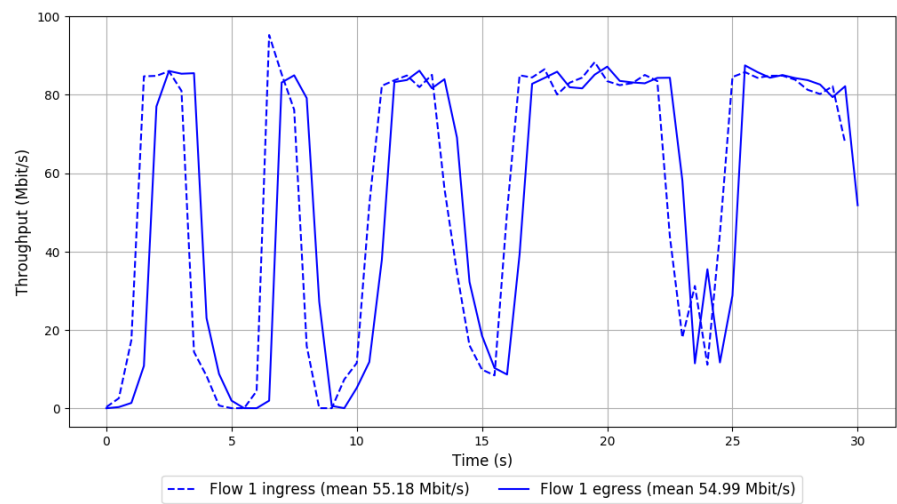
-- Flow 1:

Average throughput: 54.99 Mbit/s

95th percentile per-packet one-way delay: 86.519 ms

Loss rate: 0.92%

Run 10: Report of QUIC Cubic — Data Link

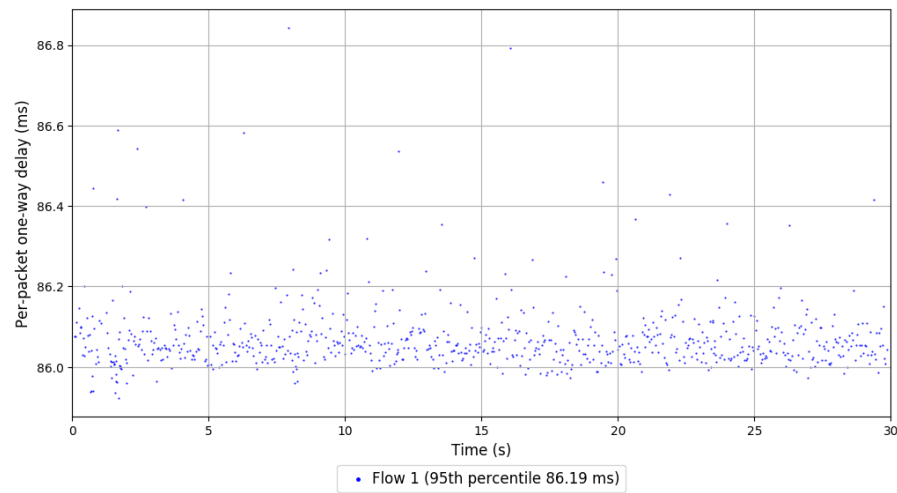
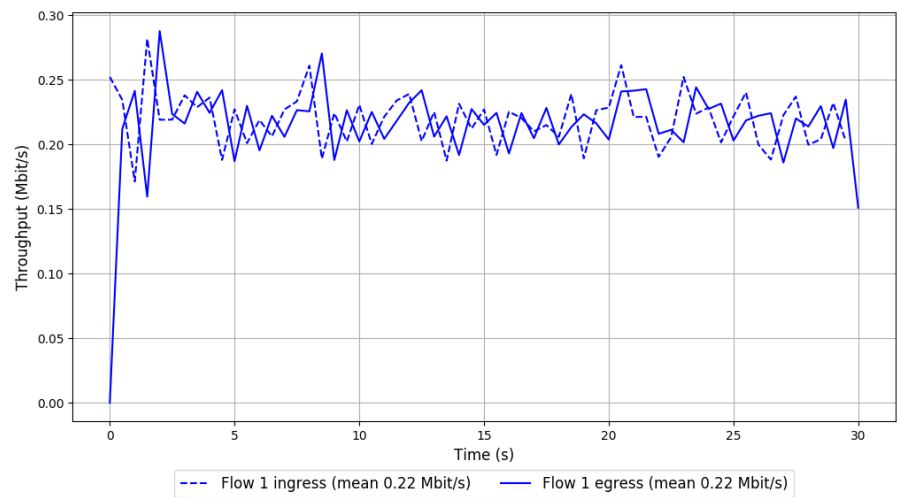


```
Run 1: Statistics of SCReAM

Start at: 2018-05-30 19:08:11
End at: 2018-05-30 19:08:41
Local clock offset: 4.634 ms
Remote clock offset: 0.056 ms

# Below is generated by plot.py at 2018-05-30 23:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.192 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.192 ms
Loss rate: 0.64%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-05-30 19:28:22

End at: 2018-05-30 19:28:52

Local clock offset: 4.123 ms

Remote clock offset: 0.117 ms

Below is generated by plot.py at 2018-05-30 23:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.596 ms

Loss rate: 0.64%

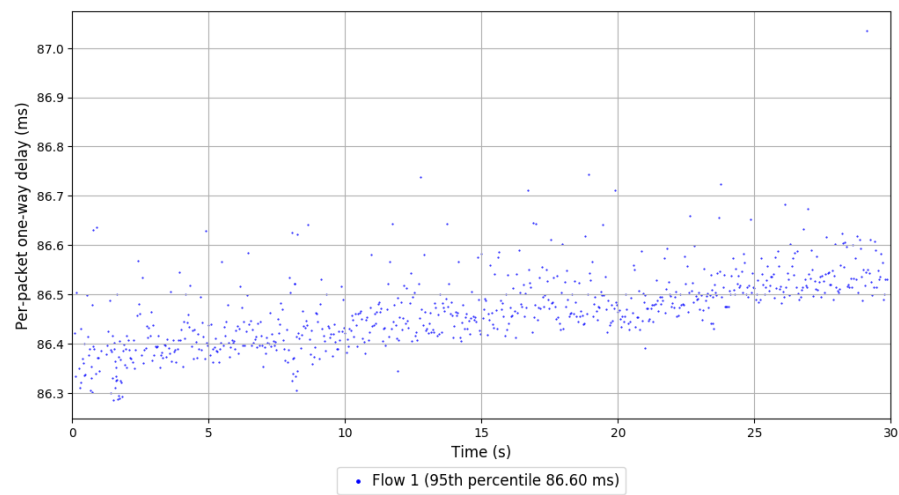
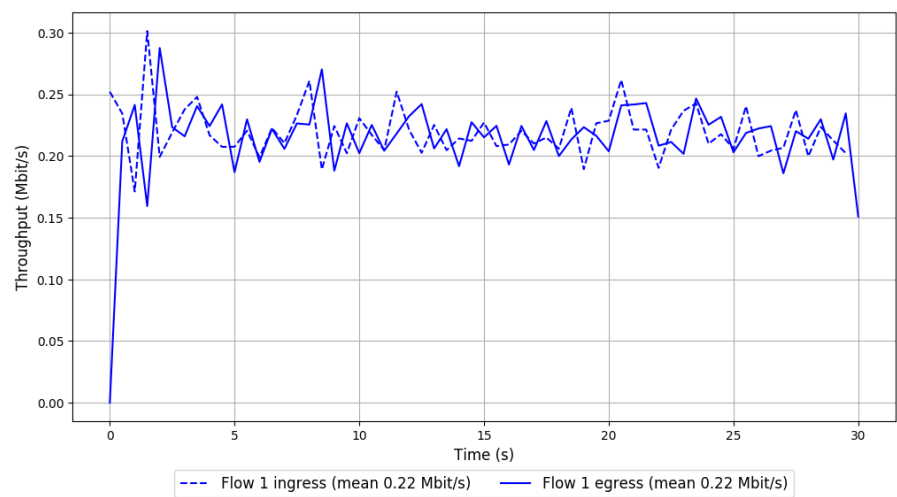
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.596 ms

Loss rate: 0.64%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-05-30 19:48:58

End at: 2018-05-30 19:49:28

Local clock offset: 2.163 ms

Remote clock offset: 0.141 ms

Below is generated by plot.py at 2018-05-30 23:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.028 ms

Loss rate: 0.51%

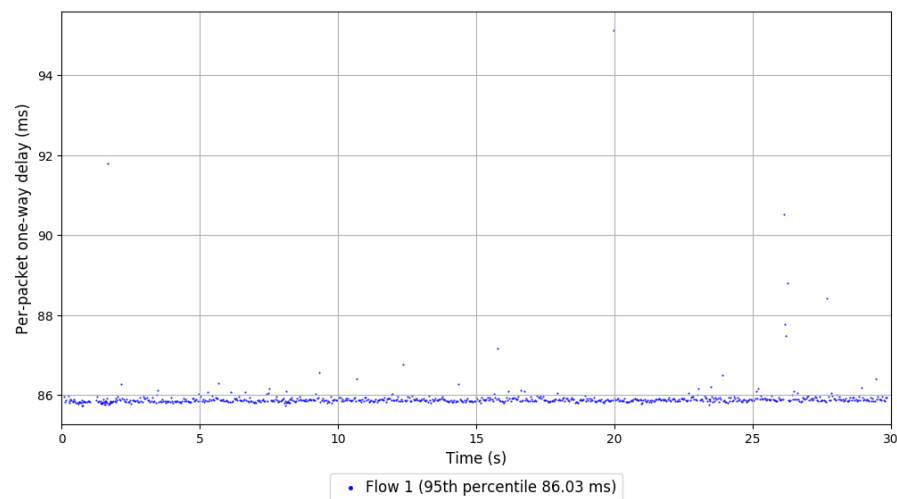
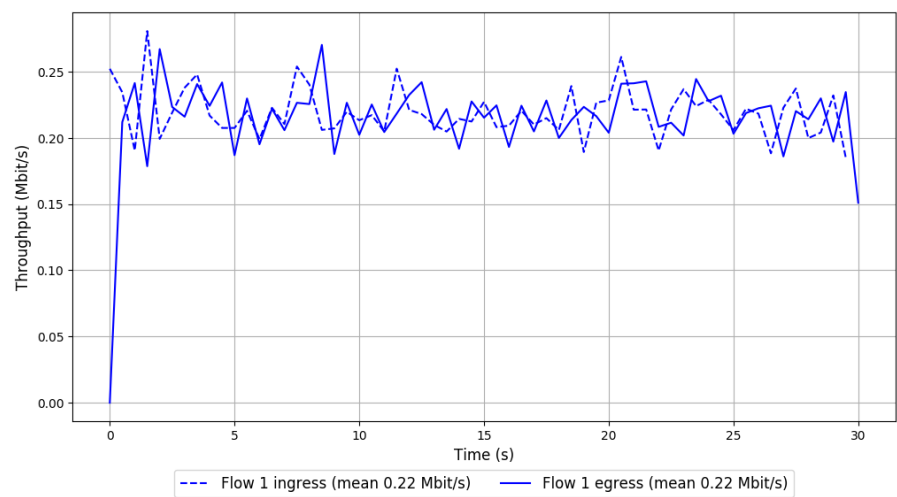
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.028 ms

Loss rate: 0.51%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-05-30 20:09:31

End at: 2018-05-30 20:10:01

Local clock offset: 1.265 ms

Remote clock offset: 0.155 ms

Below is generated by plot.py at 2018-05-30 23:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.411 ms

Loss rate: 0.51%

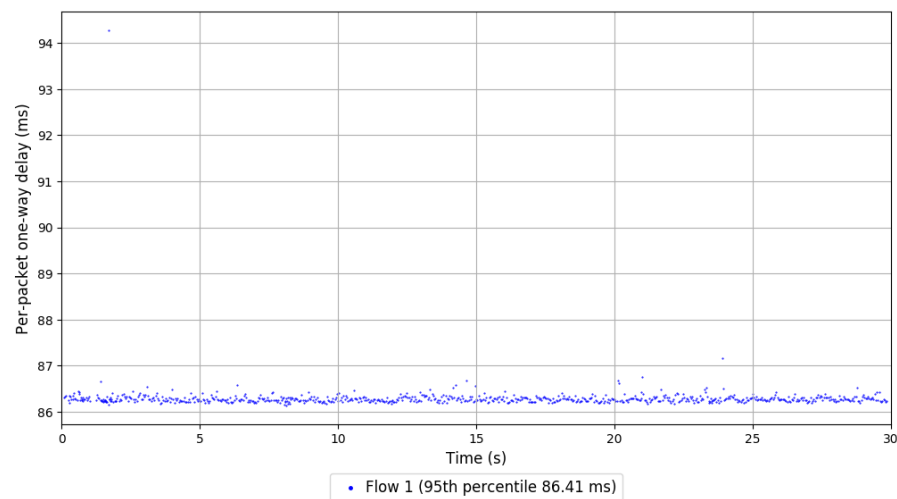
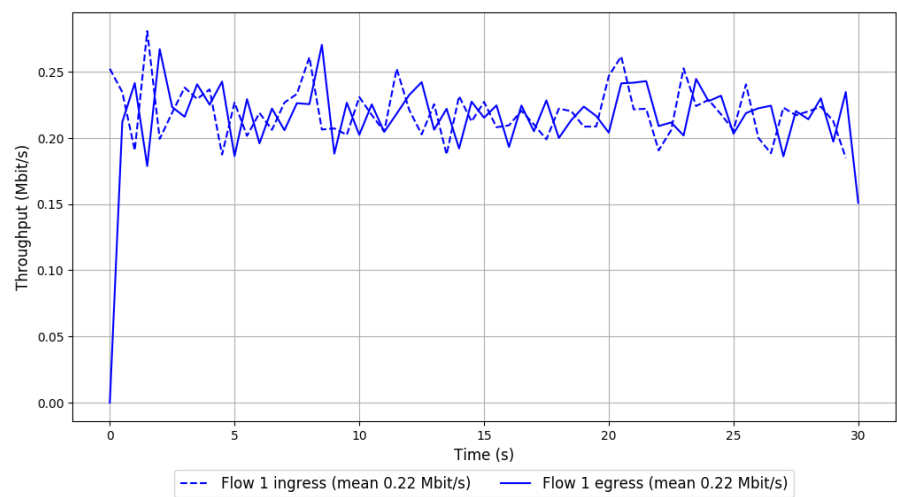
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.411 ms

Loss rate: 0.51%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-05-30 20:30:01

End at: 2018-05-30 20:30:31

Local clock offset: 1.392 ms

Remote clock offset: 0.158 ms

Below is generated by plot.py at 2018-05-30 23:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.708 ms

Loss rate: 0.51%

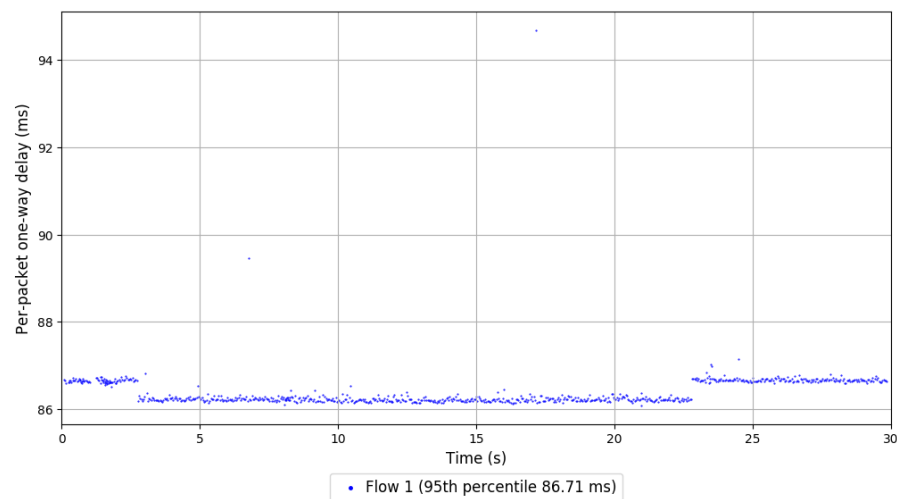
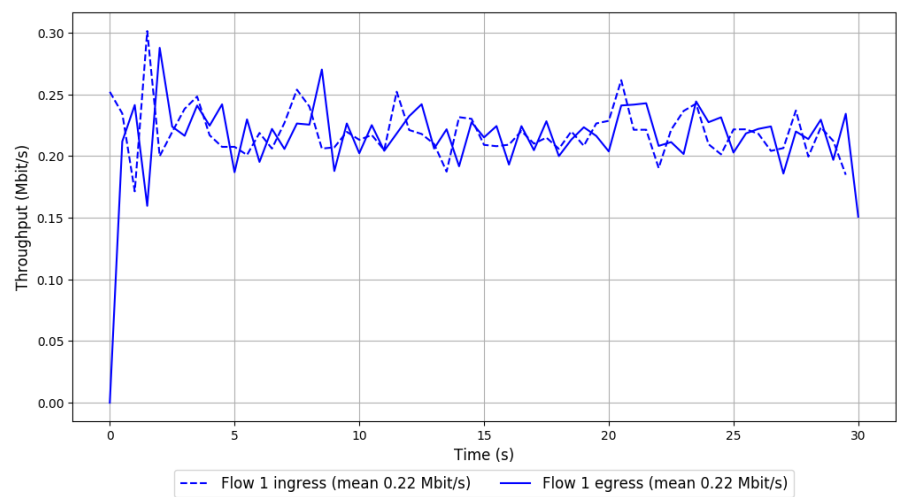
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.708 ms

Loss rate: 0.51%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-05-30 20:50:34

End at: 2018-05-30 20:51:04

Local clock offset: 0.794 ms

Remote clock offset: 0.211 ms

Below is generated by plot.py at 2018-05-30 23:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.626 ms

Loss rate: 0.51%

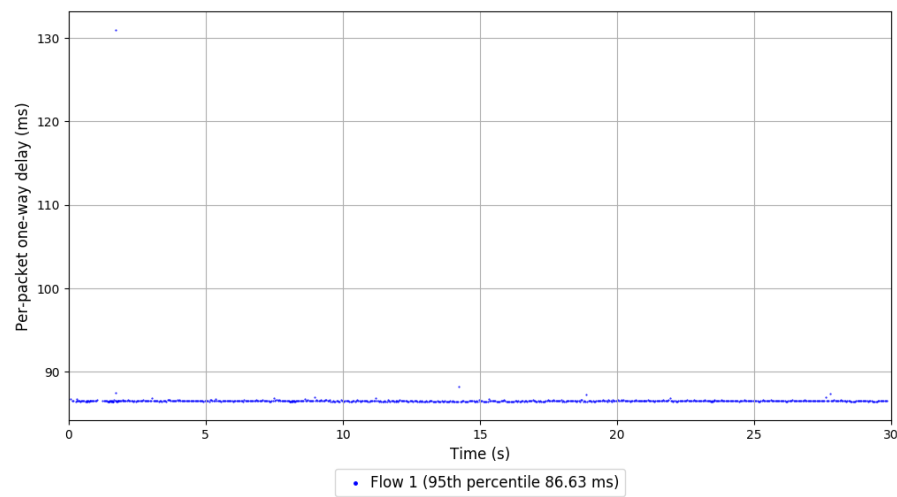
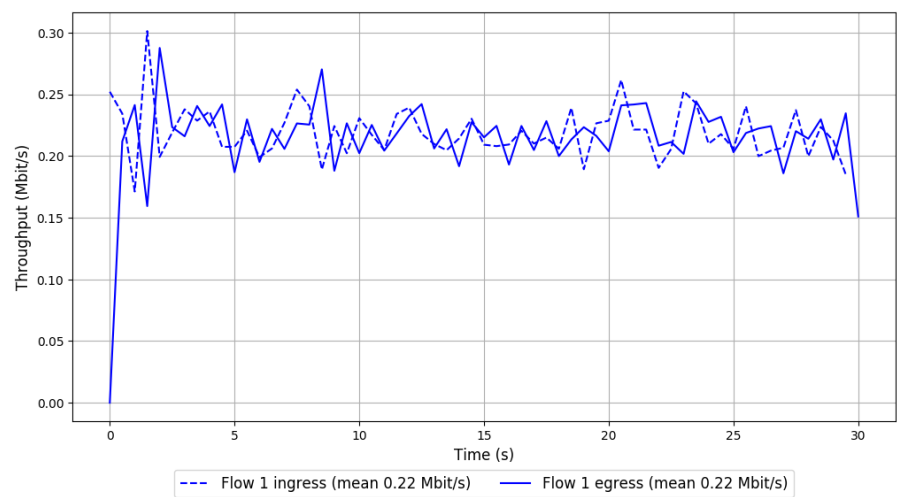
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.626 ms

Loss rate: 0.51%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-05-30 21:10:50

End at: 2018-05-30 21:11:20

Local clock offset: 0.597 ms

Remote clock offset: 0.213 ms

Below is generated by plot.py at 2018-05-30 23:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.359 ms

Loss rate: 0.51%

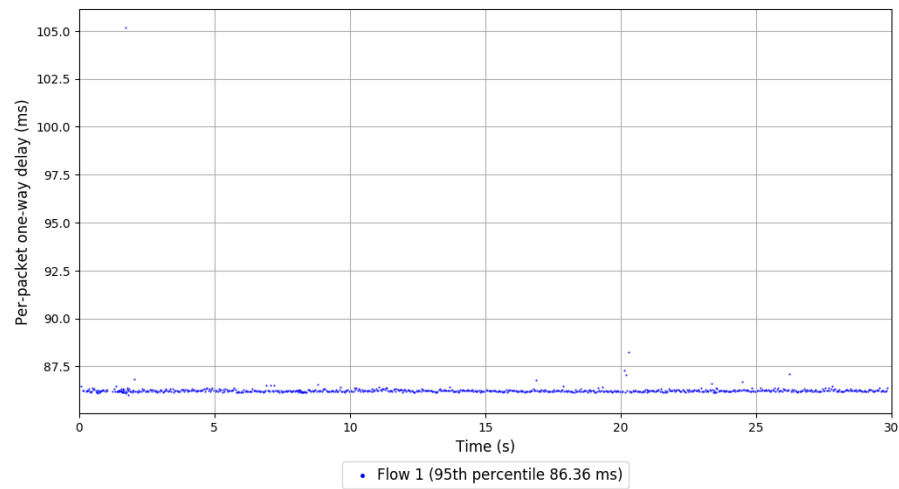
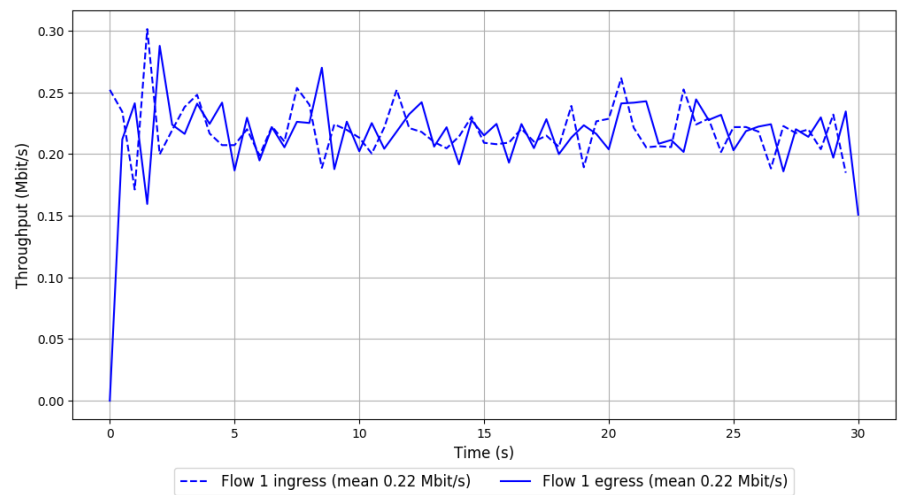
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.359 ms

Loss rate: 0.51%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-05-30 21:31:17

End at: 2018-05-30 21:31:47

Local clock offset: 0.787 ms

Remote clock offset: 0.23 ms

Below is generated by plot.py at 2018-05-30 23:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.424 ms

Loss rate: 0.64%

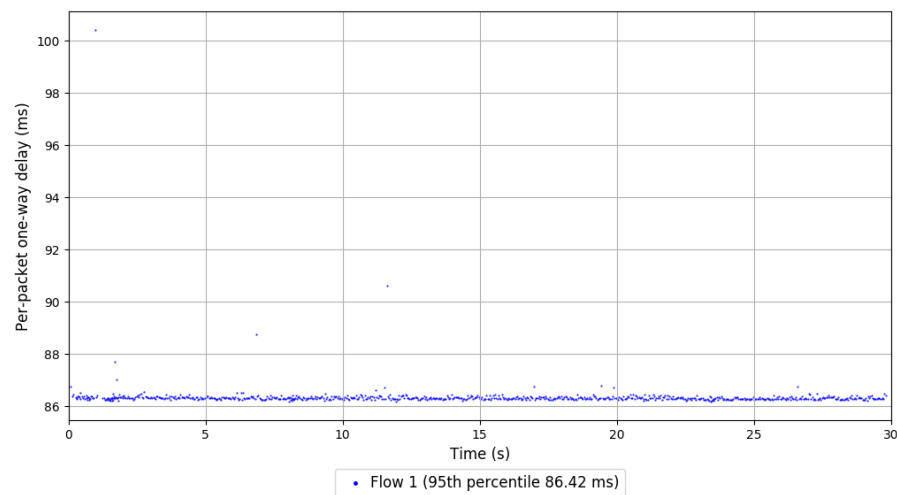
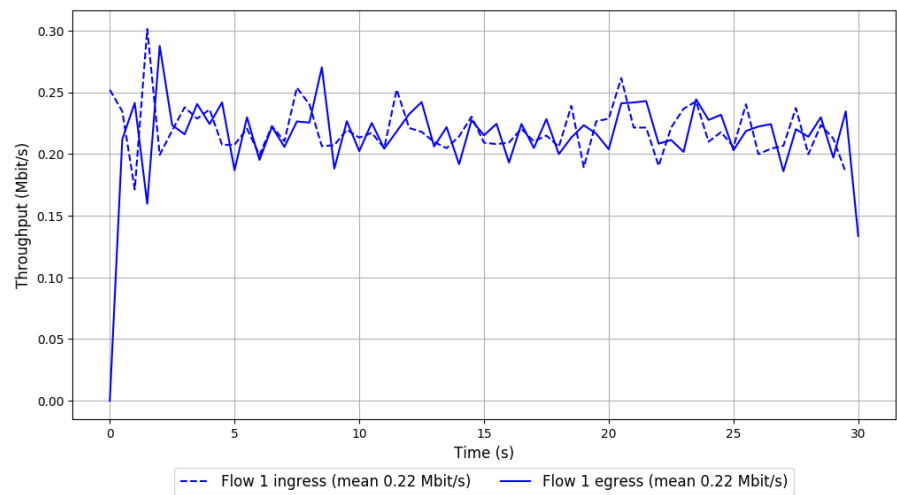
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.424 ms

Loss rate: 0.64%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-05-30 21:51:50

End at: 2018-05-30 21:52:21

Local clock offset: 0.153 ms

Remote clock offset: 0.292 ms

Below is generated by plot.py at 2018-05-30 23:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.628 ms

Loss rate: 0.51%

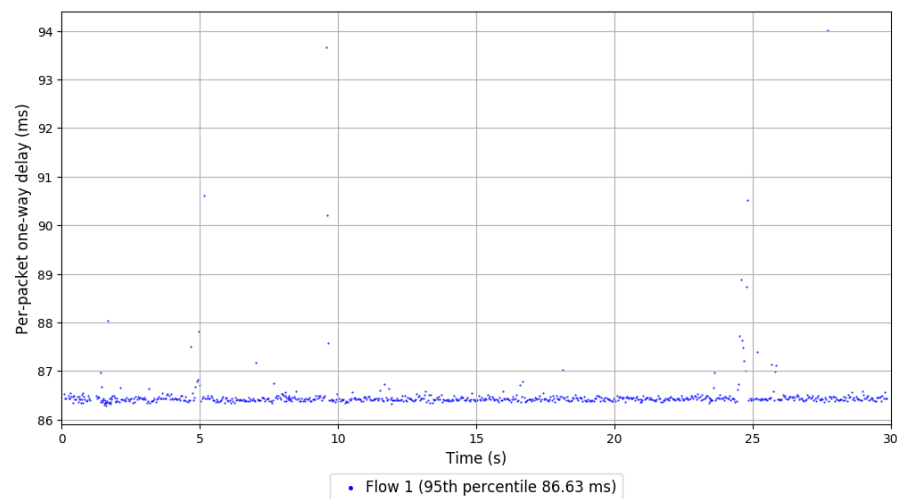
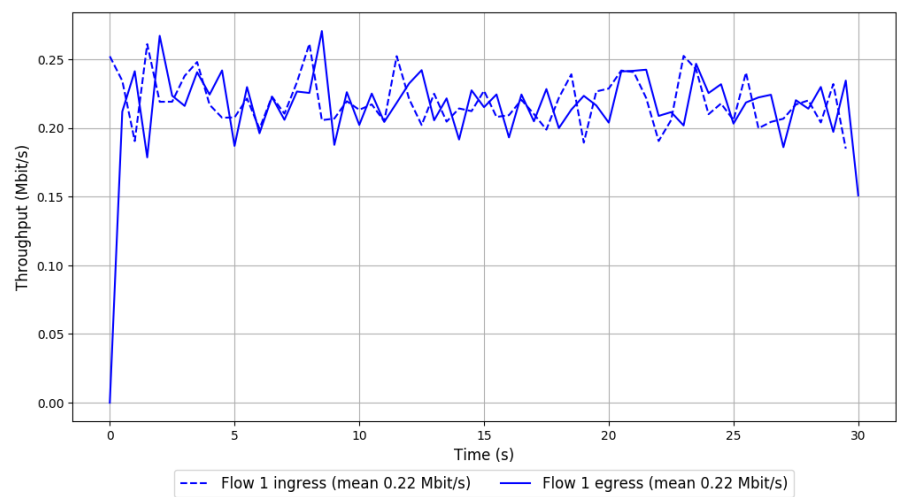
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.628 ms

Loss rate: 0.51%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-05-30 22:12:17

End at: 2018-05-30 22:12:47

Local clock offset: -0.698 ms

Remote clock offset: 0.344 ms

Below is generated by plot.py at 2018-05-30 23:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.847 ms

Loss rate: 0.64%

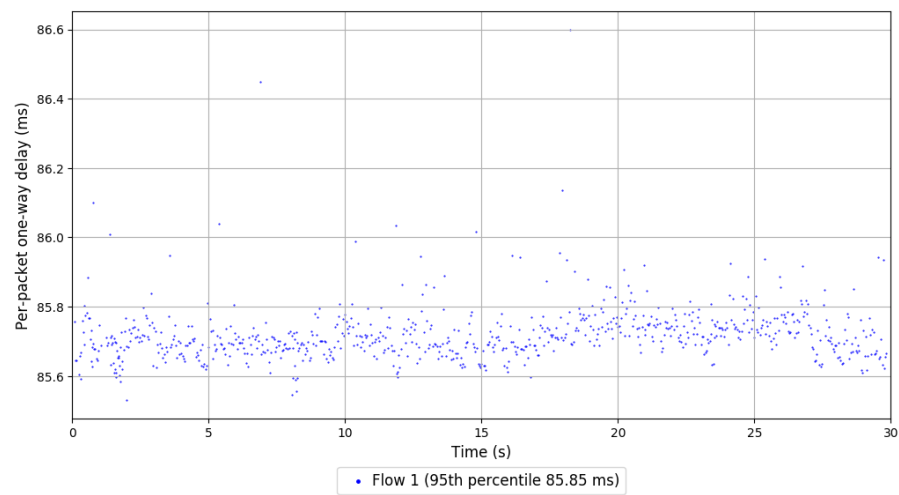
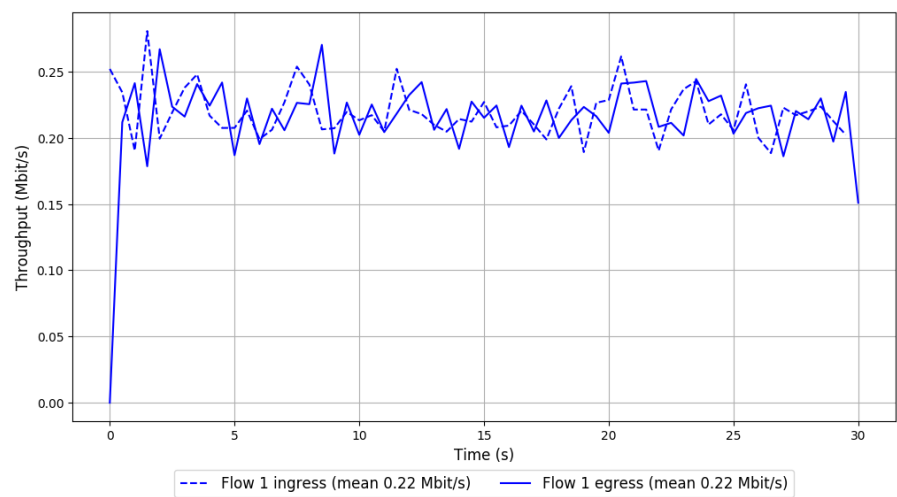
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.847 ms

Loss rate: 0.64%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-05-30 18:54:27

End at: 2018-05-30 18:54:57

Local clock offset: 8.007 ms

Remote clock offset: 0.072 ms

Below is generated by plot.py at 2018-05-30 23:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 86.880 ms

Loss rate: 0.46%

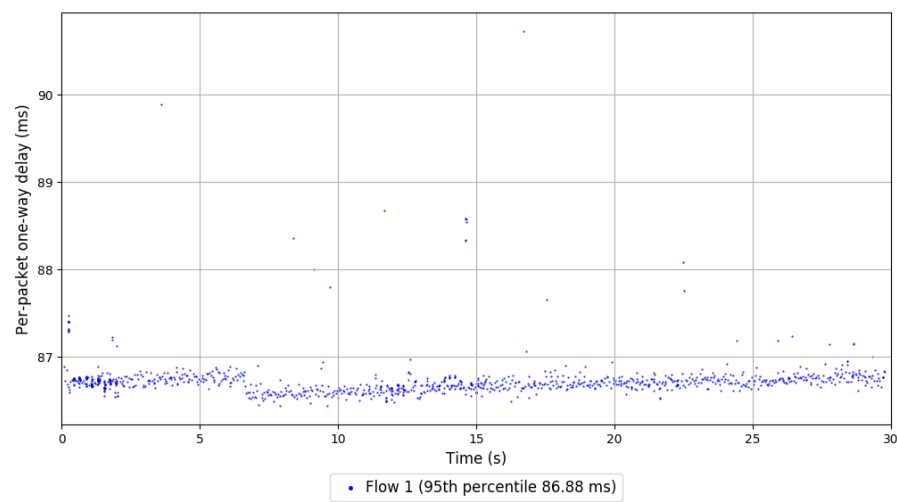
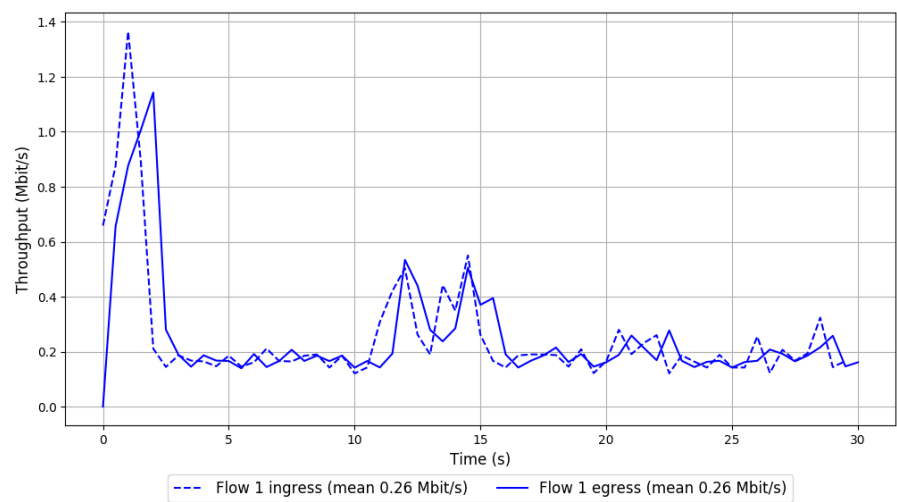
-- Flow 1:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 86.880 ms

Loss rate: 0.46%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-05-30 19:14:40

End at: 2018-05-30 19:15:10

Local clock offset: 5.093 ms

Remote clock offset: 0.086 ms

Below is generated by plot.py at 2018-05-30 23:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 86.283 ms

Loss rate: 0.82%

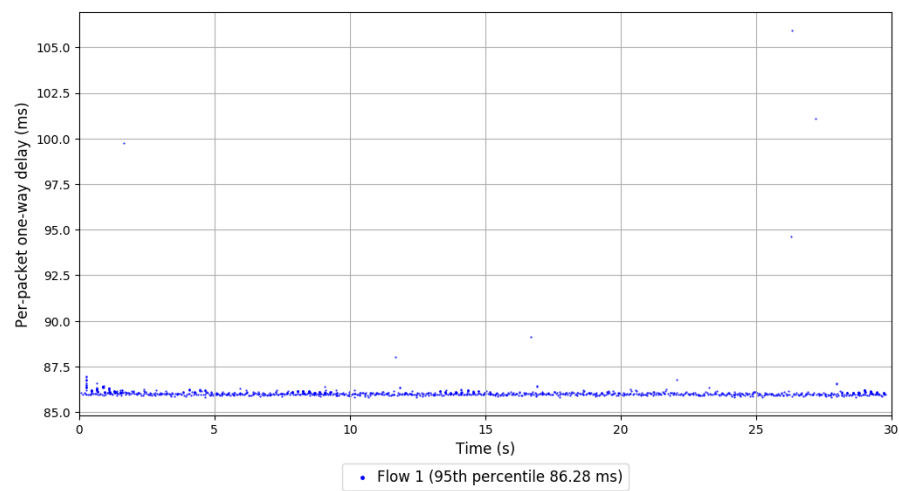
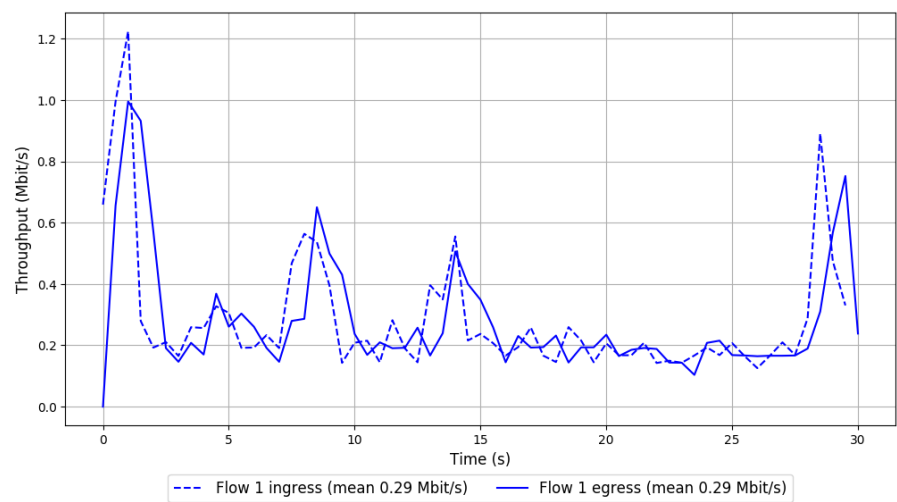
-- Flow 1:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 86.283 ms

Loss rate: 0.82%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-05-30 19:34:56

End at: 2018-05-30 19:35:26

Local clock offset: 2.354 ms

Remote clock offset: 0.064 ms

Below is generated by plot.py at 2018-05-30 23:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 86.670 ms

Loss rate: 0.55%

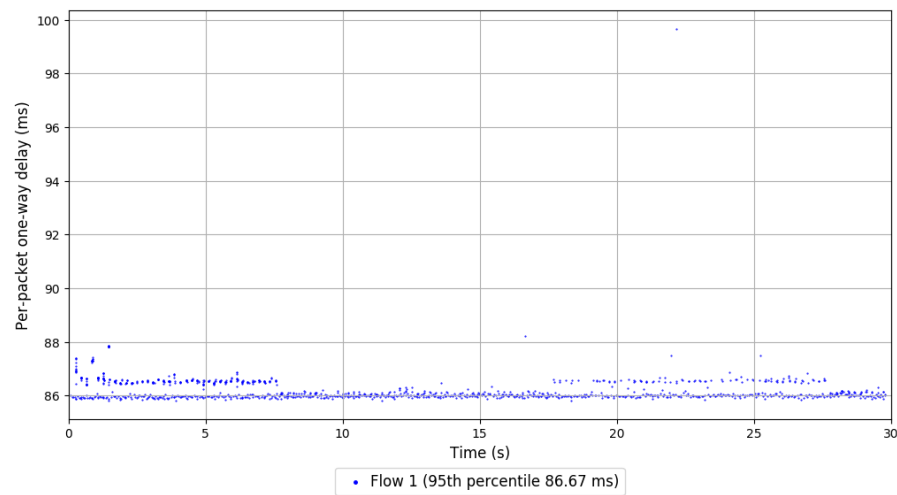
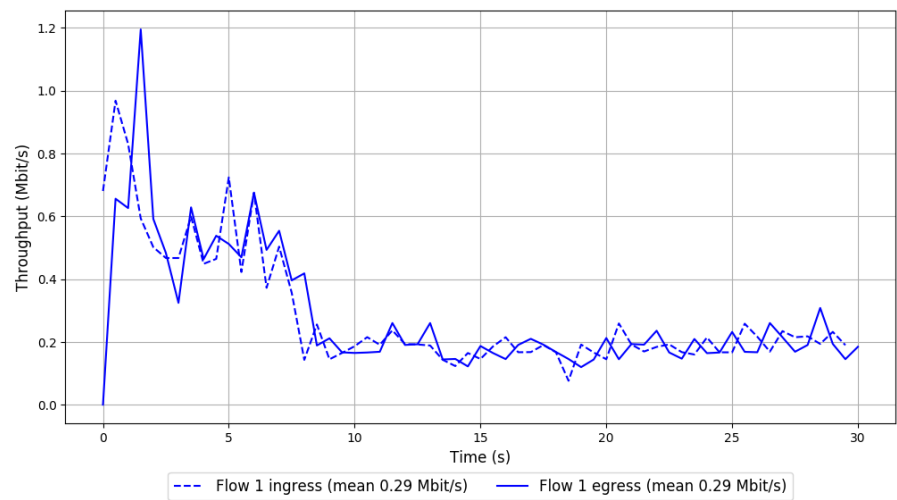
-- Flow 1:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 86.670 ms

Loss rate: 0.55%

Run 3: Report of Sprout — Data Link

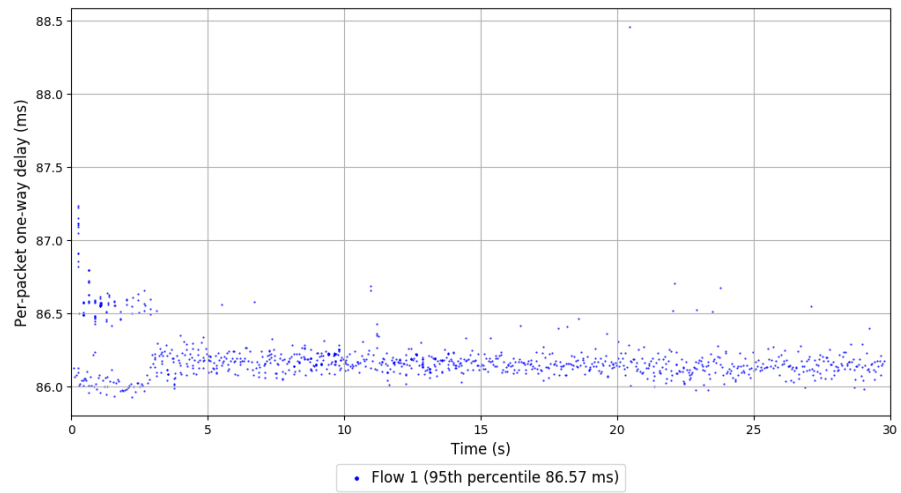
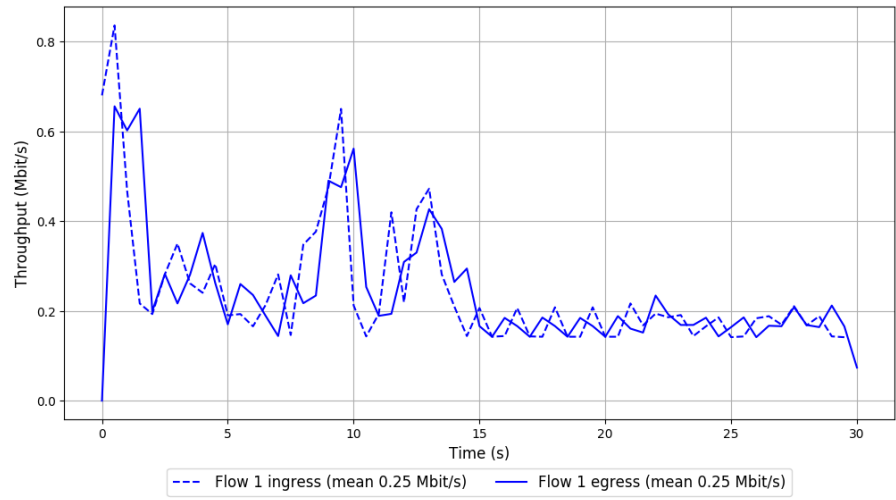


Run 4: Statistics of Sprout

Start at: 2018-05-30 19:55:31
End at: 2018-05-30 19:56:01
Local clock offset: 2.763 ms
Remote clock offset: 0.123 ms

Below is generated by plot.py at 2018-05-30 23:16:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 86.573 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 86.573 ms
Loss rate: 0.48%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-05-30 20:16:05

End at: 2018-05-30 20:16:35

Local clock offset: 0.952 ms

Remote clock offset: 0.14 ms

Below is generated by plot.py at 2018-05-30 23:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 86.641 ms

Loss rate: 0.91%

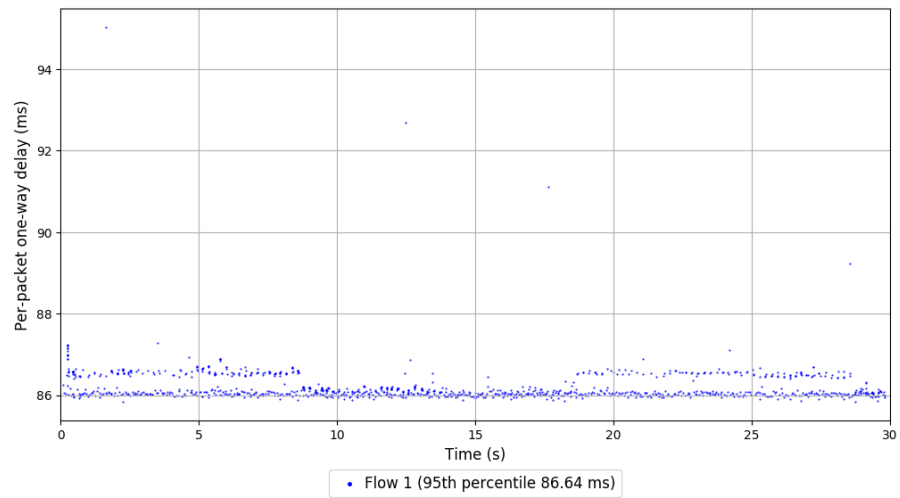
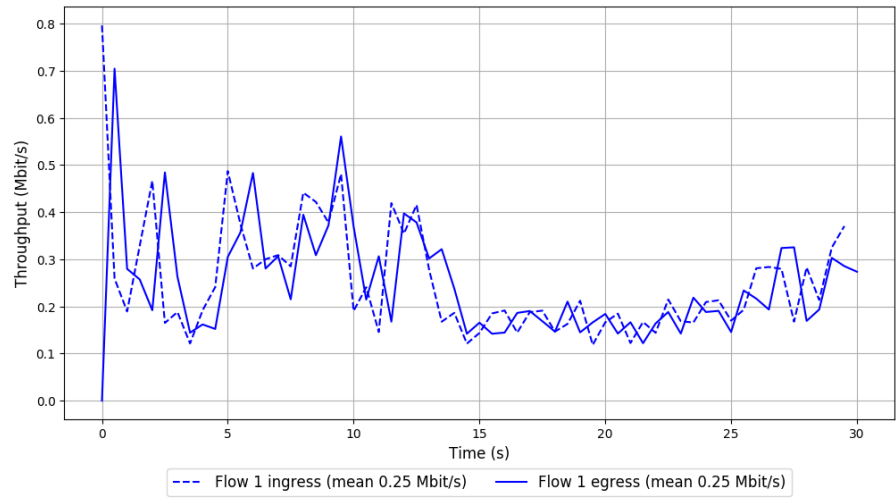
-- Flow 1:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 86.641 ms

Loss rate: 0.91%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-05-30 20:36:32

End at: 2018-05-30 20:37:02

Local clock offset: 0.663 ms

Remote clock offset: 0.137 ms

Below is generated by plot.py at 2018-05-30 23:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.27 Mbit/s

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

Loss rate: 0.43%

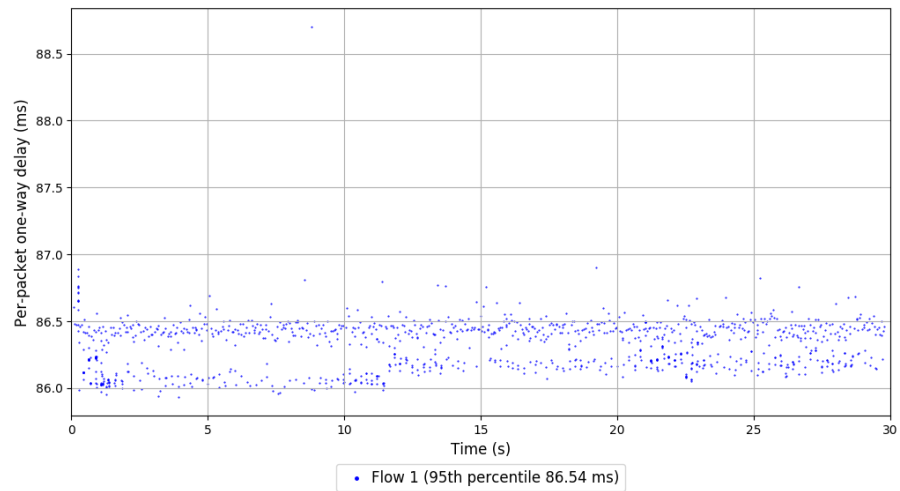
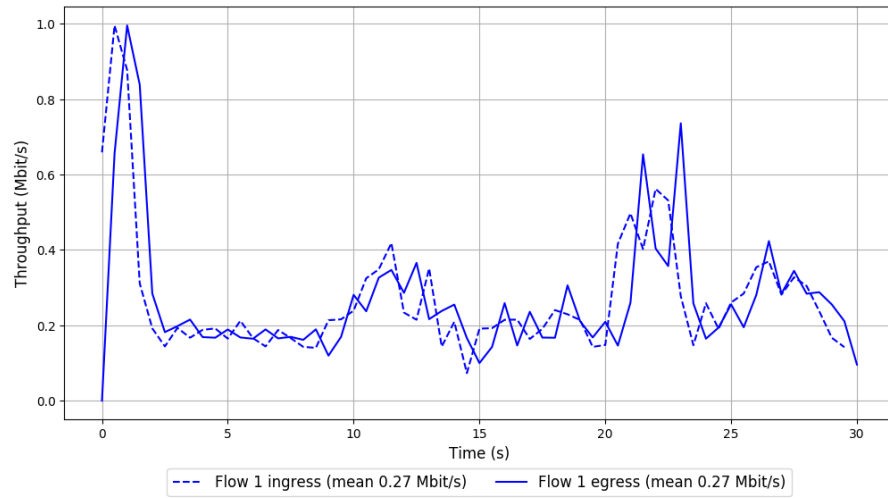
-- Flow 1:

Average throughput: 0.27 Mbit/s

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

Loss rate: 0.43%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-05-30 20:57:11

End at: 2018-05-30 20:57:41

Local clock offset: 0.617 ms

Remote clock offset: 0.201 ms

Below is generated by plot.py at 2018-05-30 23:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.31 Mbit/s

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

Loss rate: 0.49%

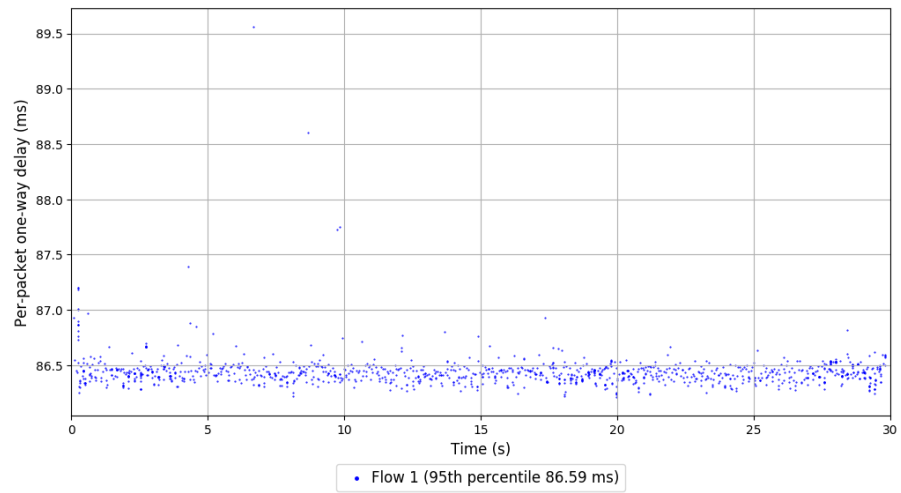
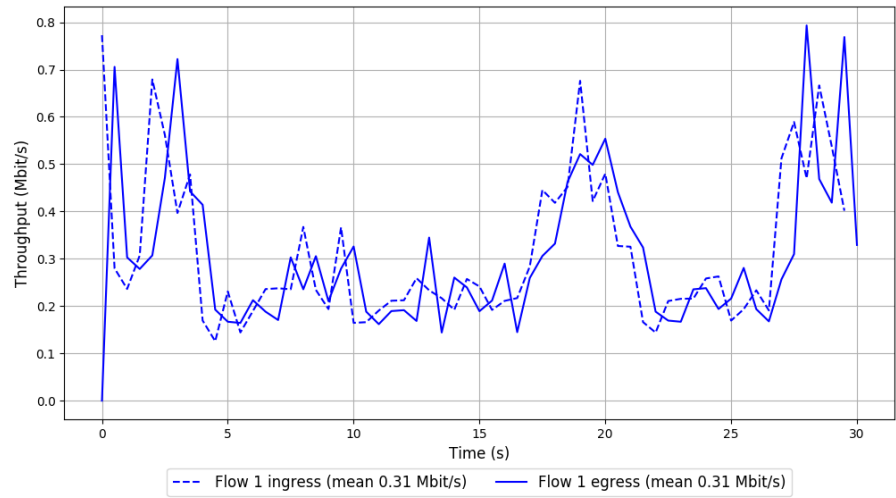
-- Flow 1:

Average throughput: 0.31 Mbit/s

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

Loss rate: 0.49%

Run 7: Report of Sprout — Data Link

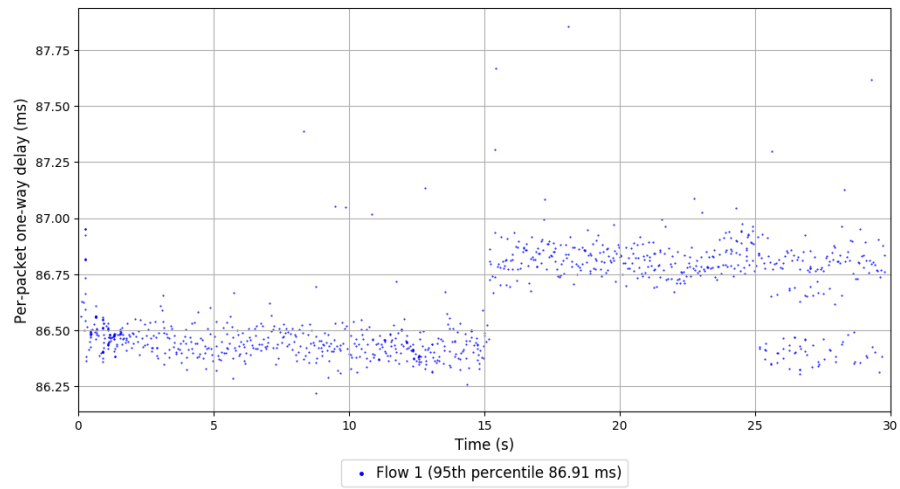
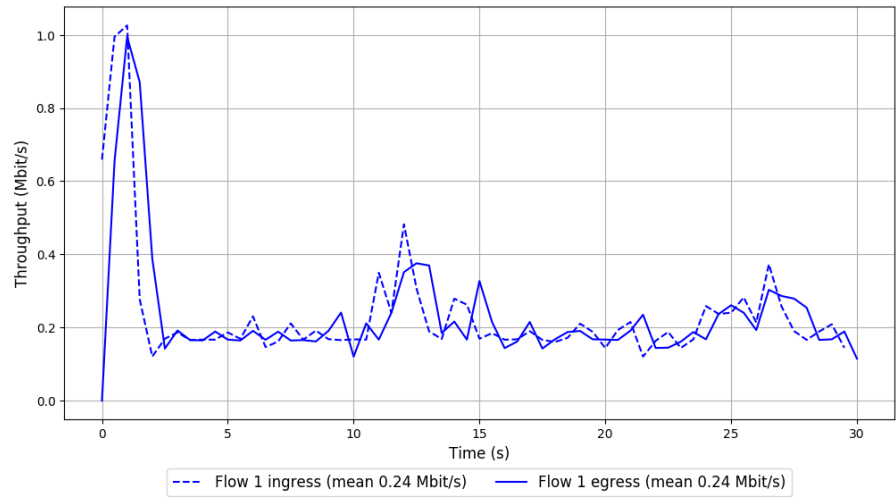


Run 8: Statistics of Sprout

Start at: 2018-05-30 21:17:19
End at: 2018-05-30 21:17:49
Local clock offset: 0.792 ms
Remote clock offset: 0.192 ms

Below is generated by plot.py at 2018-05-30 23:16:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 86.905 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 86.905 ms
Loss rate: 0.52%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-05-30 21:37:50

End at: 2018-05-30 21:38:20

Local clock offset: 0.809 ms

Remote clock offset: 0.257 ms

Below is generated by plot.py at 2018-05-30 23:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 86.611 ms

Loss rate: 0.50%

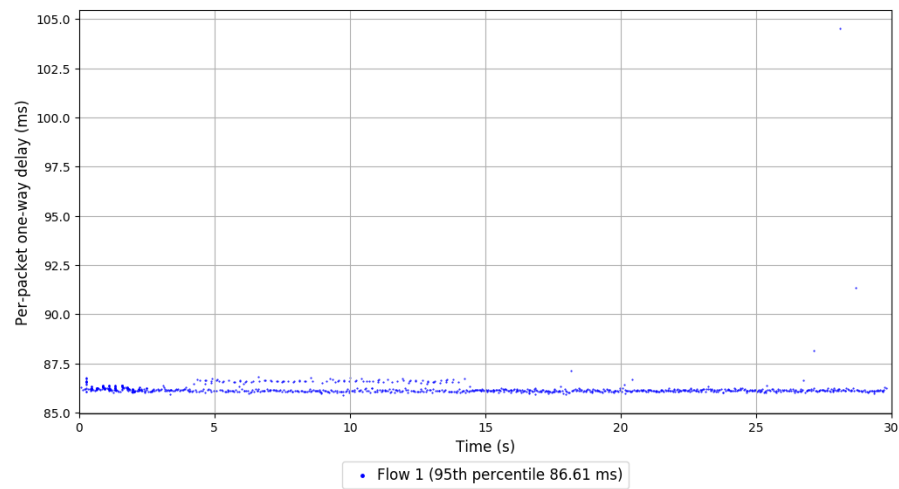
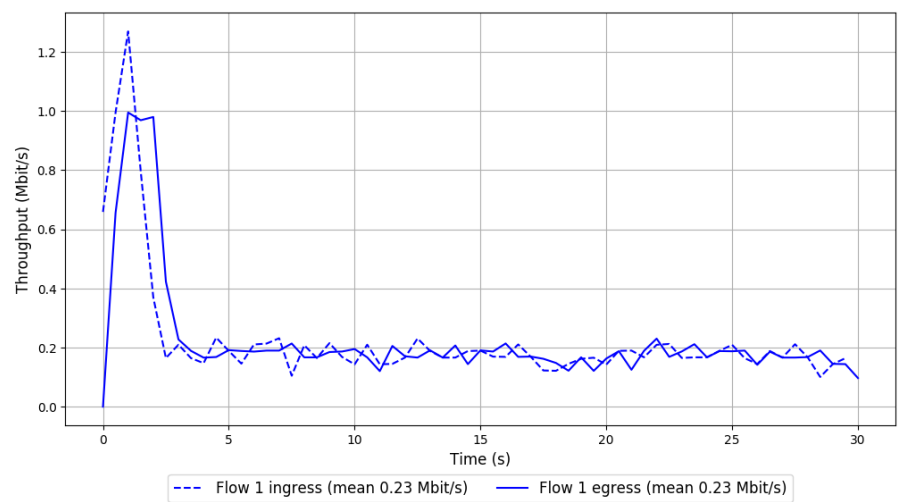
-- Flow 1:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 86.611 ms

Loss rate: 0.50%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-05-30 21:58:24

End at: 2018-05-30 21:58:54

Local clock offset: 0.149 ms

Remote clock offset: 0.302 ms

Below is generated by plot.py at 2018-05-30 23:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 87.061 ms

Loss rate: 0.39%

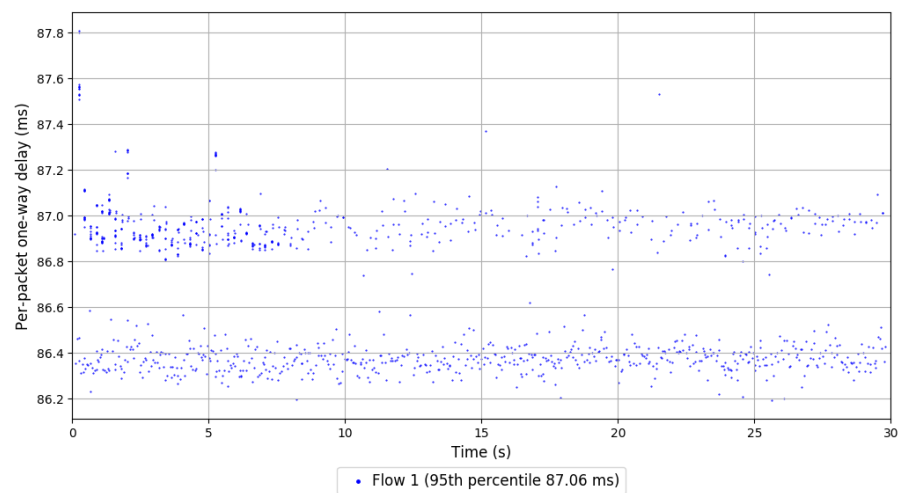
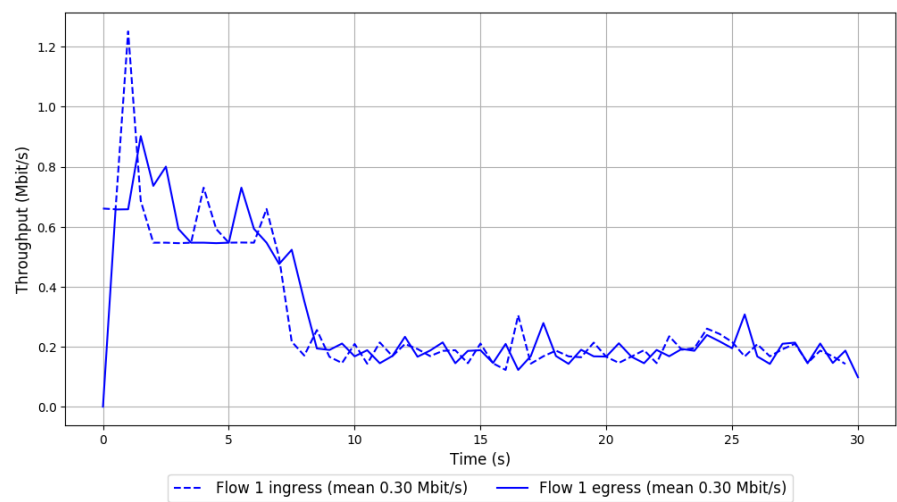
-- Flow 1:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 87.061 ms

Loss rate: 0.39%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-05-30 19:09:18

End at: 2018-05-30 19:09:48

Local clock offset: 4.281 ms

Remote clock offset: 0.046 ms

Below is generated by plot.py at 2018-05-30 23:19:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.41 Mbit/s

95th percentile per-packet one-way delay: 86.430 ms

Loss rate: 0.54%

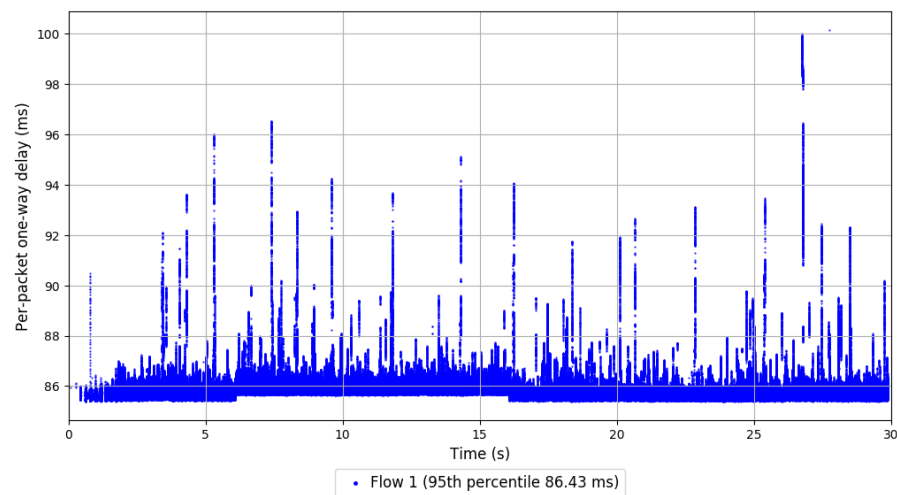
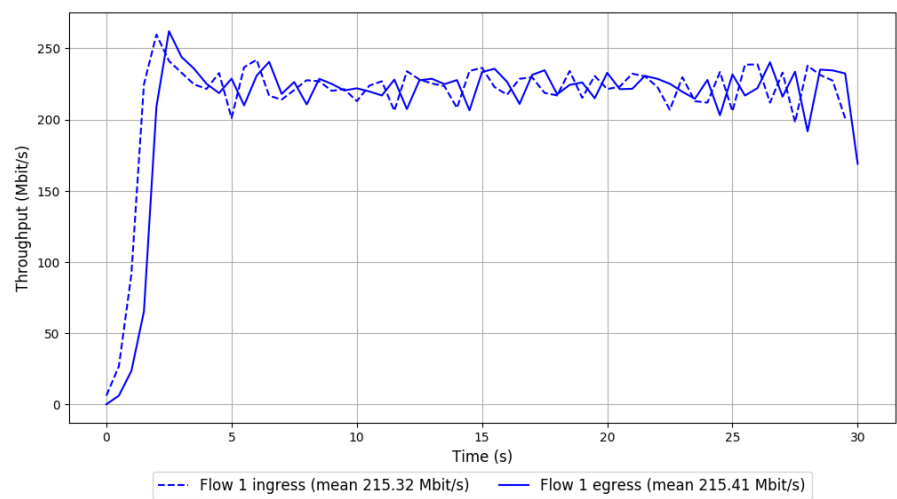
-- Flow 1:

Average throughput: 215.41 Mbit/s

95th percentile per-packet one-way delay: 86.430 ms

Loss rate: 0.54%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-05-30 19:29:29

End at: 2018-05-30 19:29:59

Local clock offset: 3.706 ms

Remote clock offset: 0.033 ms

Below is generated by plot.py at 2018-05-30 23:19:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.29 Mbit/s

95th percentile per-packet one-way delay: 87.124 ms

Loss rate: 0.54%

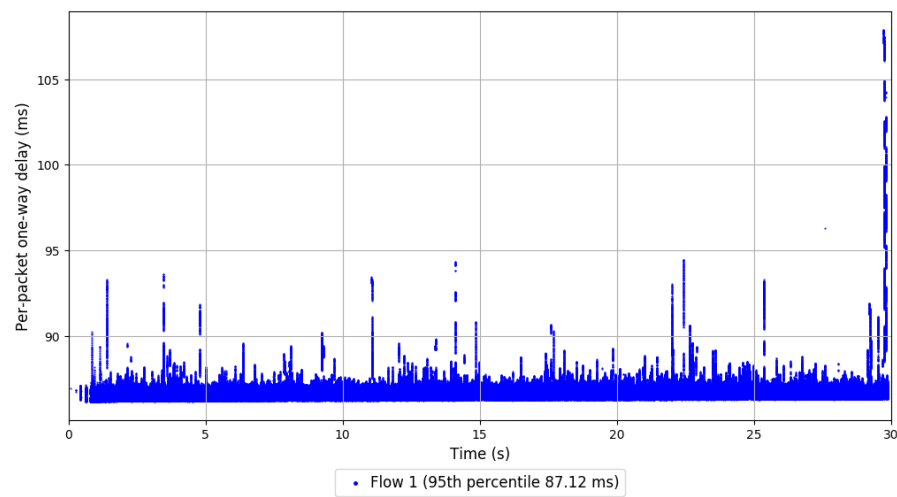
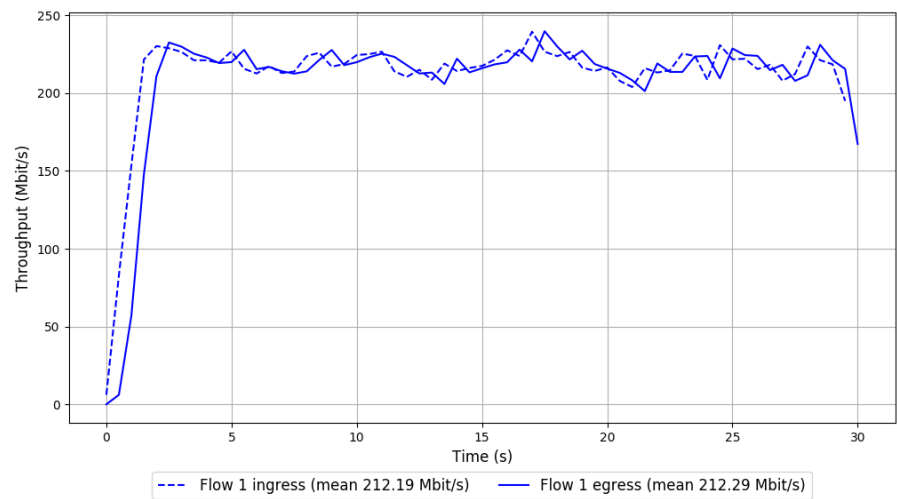
-- Flow 1:

Average throughput: 212.29 Mbit/s

95th percentile per-packet one-way delay: 87.124 ms

Loss rate: 0.54%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-05-30 19:50:05

End at: 2018-05-30 19:50:35

Local clock offset: 2.361 ms

Remote clock offset: 0.133 ms

Below is generated by plot.py at 2018-05-30 23:19:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.20 Mbit/s

95th percentile per-packet one-way delay: 89.282 ms

Loss rate: 0.81%

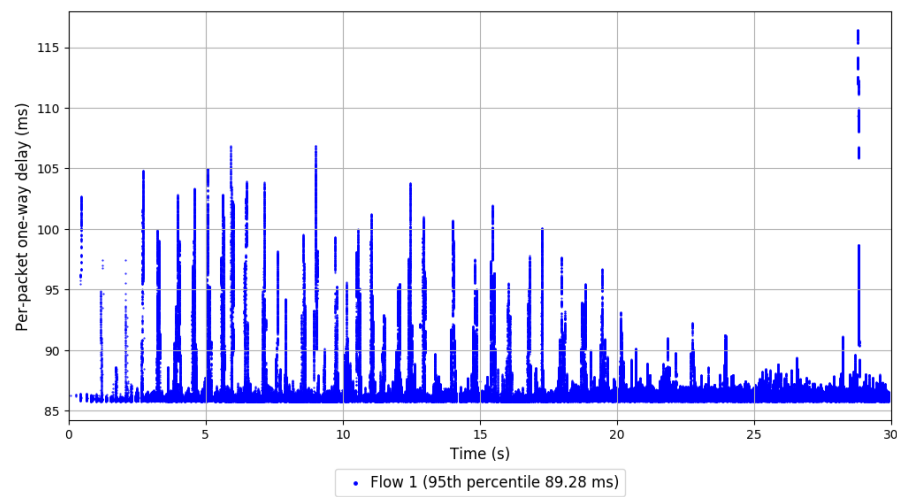
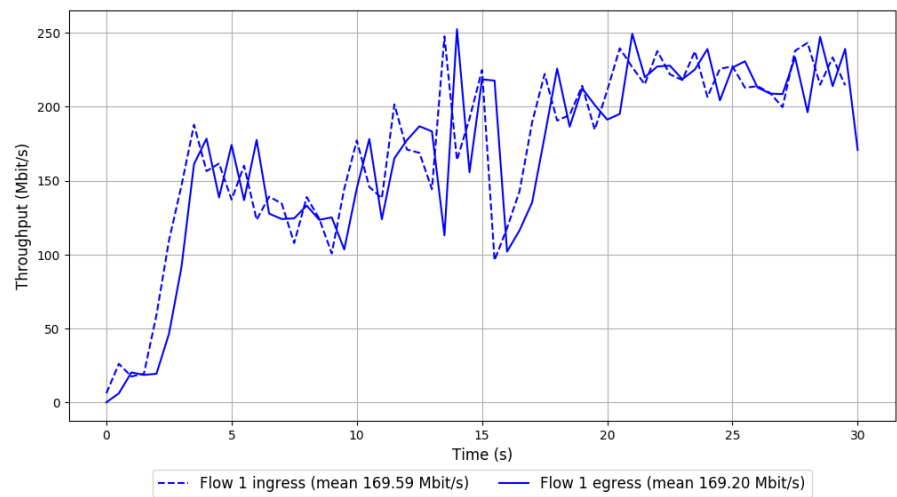
-- Flow 1:

Average throughput: 169.20 Mbit/s

95th percentile per-packet one-way delay: 89.282 ms

Loss rate: 0.81%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-05-30 20:10:38

End at: 2018-05-30 20:11:08

Local clock offset: 1.031 ms

Remote clock offset: 0.157 ms

Below is generated by plot.py at 2018-05-30 23:20:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.12 Mbit/s

95th percentile per-packet one-way delay: 86.635 ms

Loss rate: 0.59%

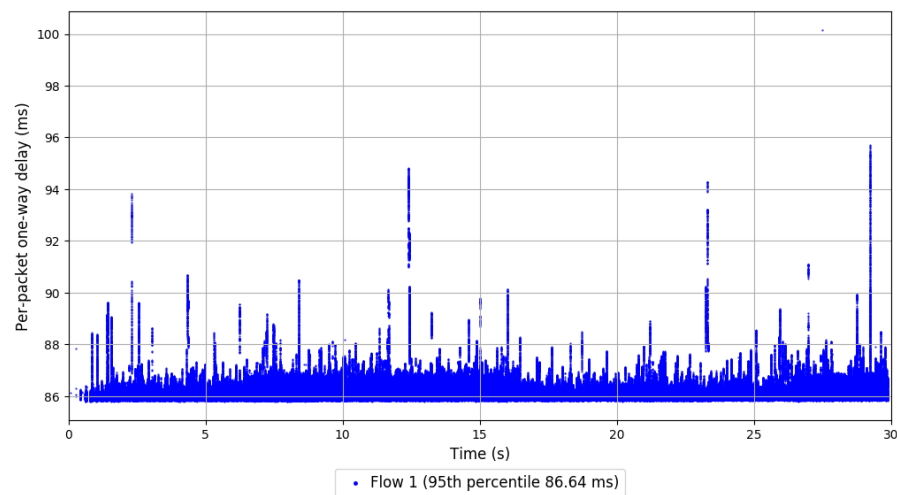
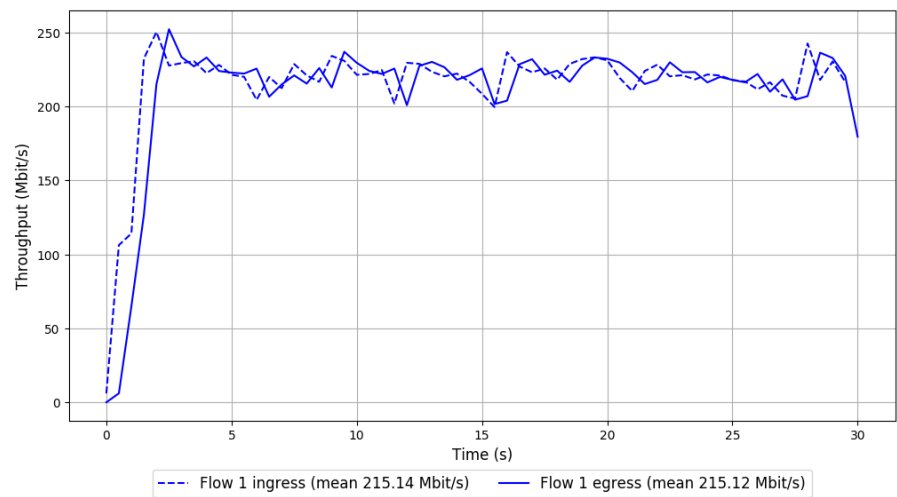
-- Flow 1:

Average throughput: 215.12 Mbit/s

95th percentile per-packet one-way delay: 86.635 ms

Loss rate: 0.59%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-05-30 20:31:08

End at: 2018-05-30 20:31:38

Local clock offset: 1.272 ms

Remote clock offset: 0.135 ms

Below is generated by plot.py at 2018-05-30 23:20:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.74 Mbit/s

95th percentile per-packet one-way delay: 86.742 ms

Loss rate: 0.63%

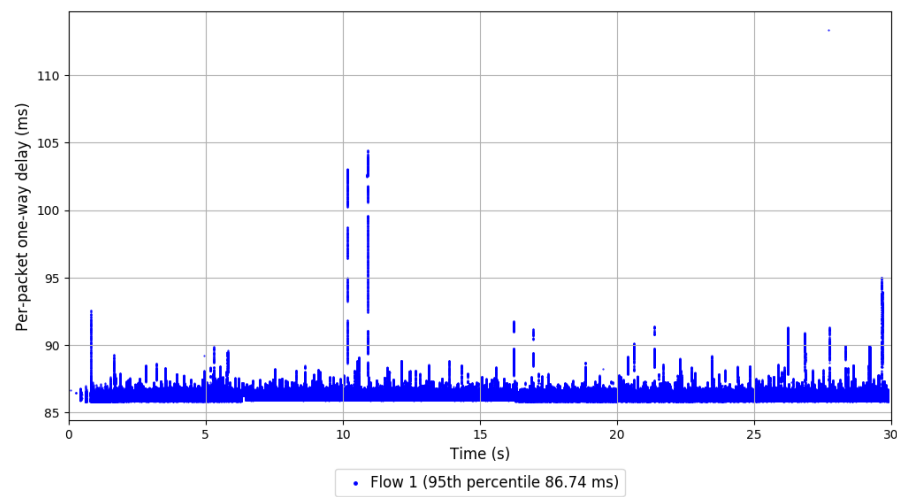
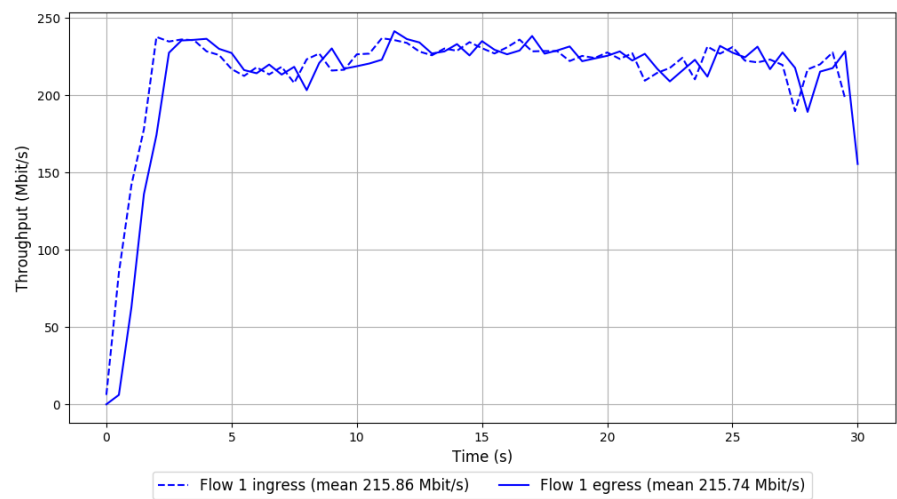
-- Flow 1:

Average throughput: 215.74 Mbit/s

95th percentile per-packet one-way delay: 86.742 ms

Loss rate: 0.63%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-05-30 20:51:41

End at: 2018-05-30 20:52:11

Local clock offset: 0.315 ms

Remote clock offset: 0.224 ms

Below is generated by plot.py at 2018-05-30 23:20:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.14 Mbit/s

95th percentile per-packet one-way delay: 86.618 ms

Loss rate: 0.64%

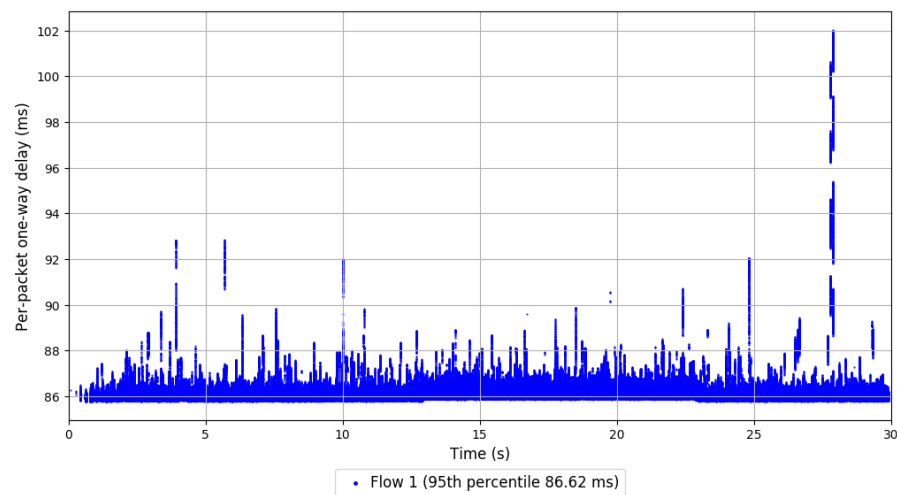
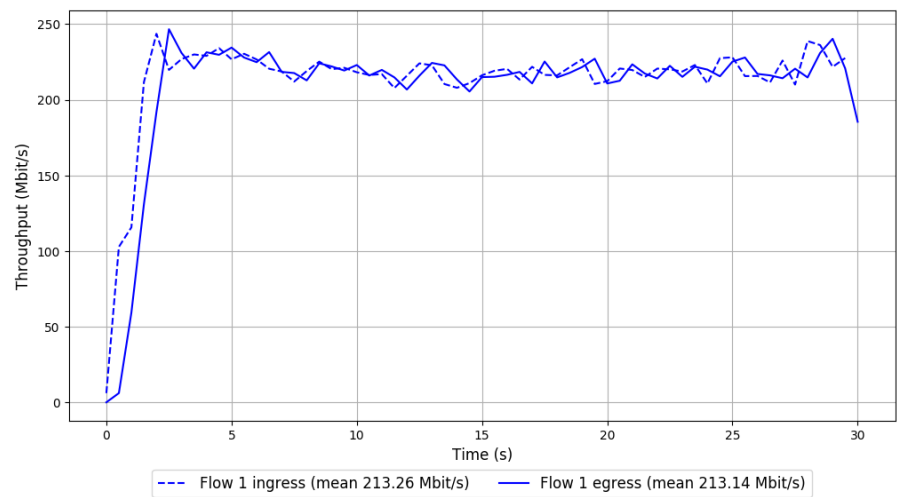
-- Flow 1:

Average throughput: 213.14 Mbit/s

95th percentile per-packet one-way delay: 86.618 ms

Loss rate: 0.64%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-05-30 21:11:57

End at: 2018-05-30 21:12:27

Local clock offset: 0.286 ms

Remote clock offset: 0.207 ms

Below is generated by plot.py at 2018-05-30 23:20:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.89 Mbit/s

95th percentile per-packet one-way delay: 86.705 ms

Loss rate: 0.63%

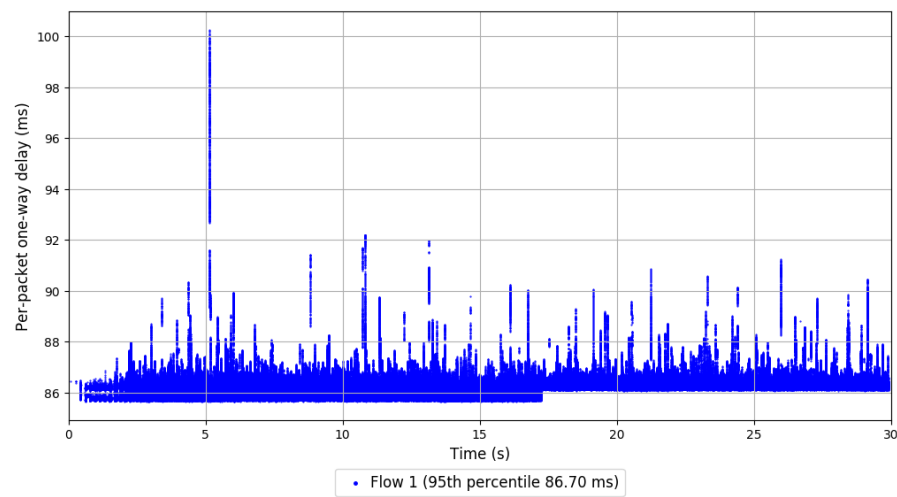
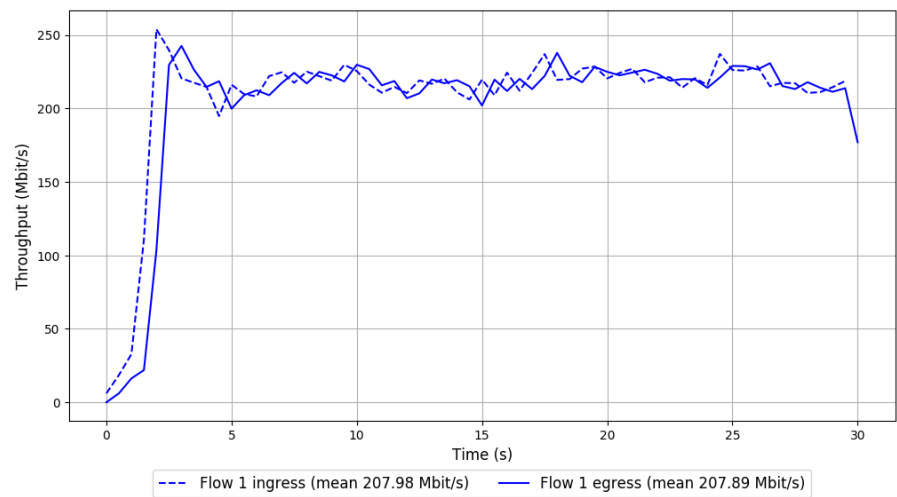
-- Flow 1:

Average throughput: 207.89 Mbit/s

95th percentile per-packet one-way delay: 86.705 ms

Loss rate: 0.63%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-05-30 21:32:24

End at: 2018-05-30 21:32:54

Local clock offset: 0.783 ms

Remote clock offset: 0.233 ms

Below is generated by plot.py at 2018-05-30 23:24:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.17 Mbit/s

95th percentile per-packet one-way delay: 86.780 ms

Loss rate: 0.66%

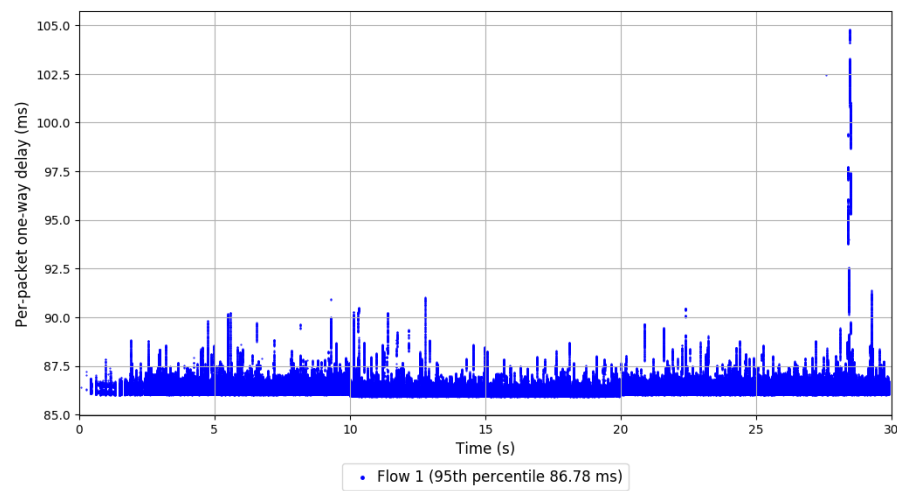
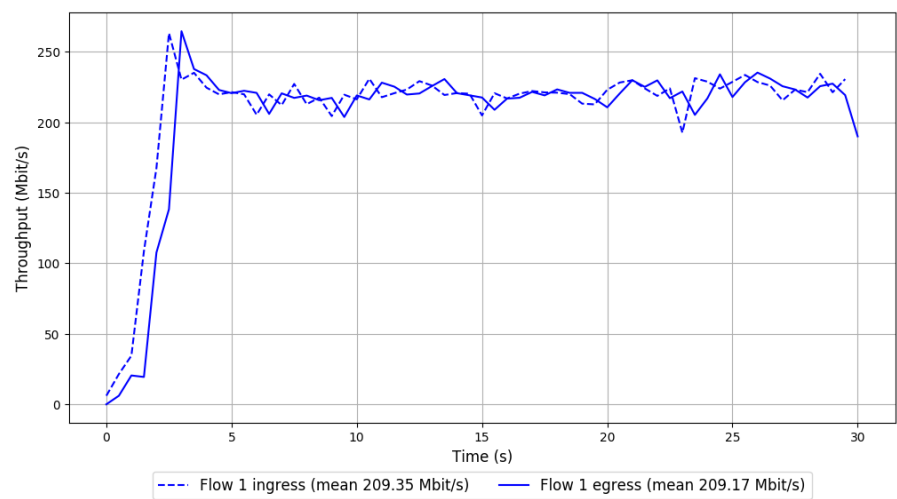
-- Flow 1:

Average throughput: 209.17 Mbit/s

95th percentile per-packet one-way delay: 86.780 ms

Loss rate: 0.66%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-05-30 21:52:57

End at: 2018-05-30 21:53:27

Local clock offset: -0.17 ms

Remote clock offset: 0.268 ms

Below is generated by plot.py at 2018-05-30 23:25:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.16 Mbit/s

95th percentile per-packet one-way delay: 86.689 ms

Loss rate: 0.66%

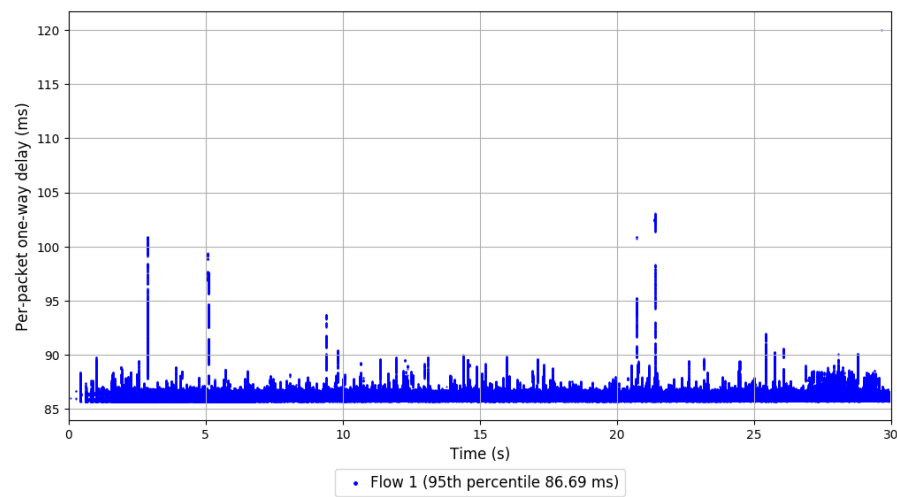
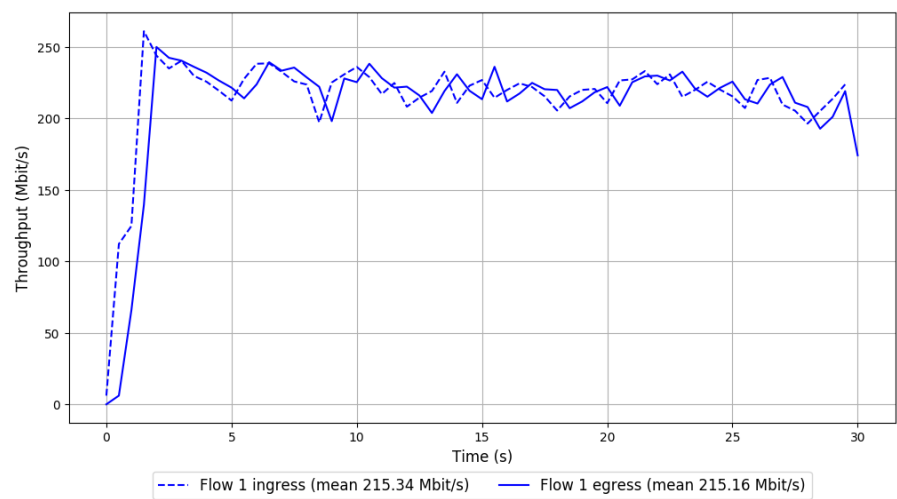
-- Flow 1:

Average throughput: 215.16 Mbit/s

95th percentile per-packet one-way delay: 86.689 ms

Loss rate: 0.66%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-05-30 22:13:24

End at: 2018-05-30 22:13:54

Local clock offset: -0.16 ms

Remote clock offset: 0.303 ms

Below is generated by plot.py at 2018-05-30 23:26:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.01 Mbit/s

95th percentile per-packet one-way delay: 87.060 ms

Loss rate: 0.64%

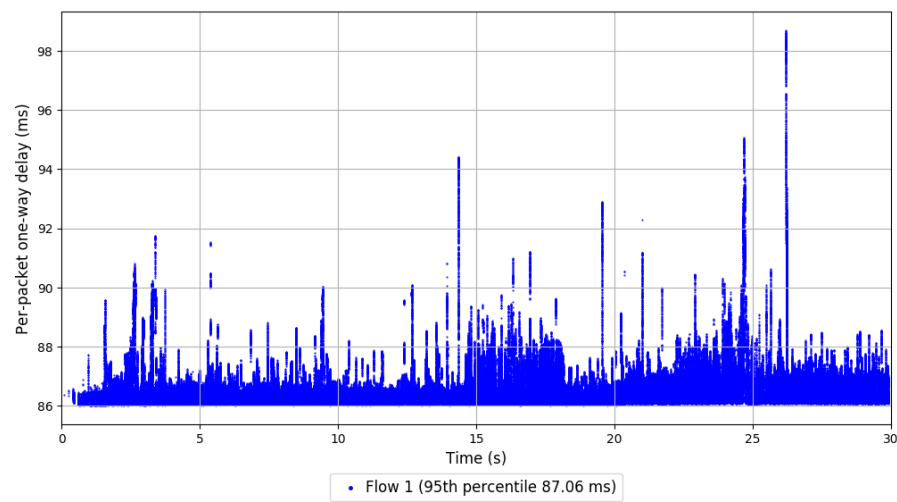
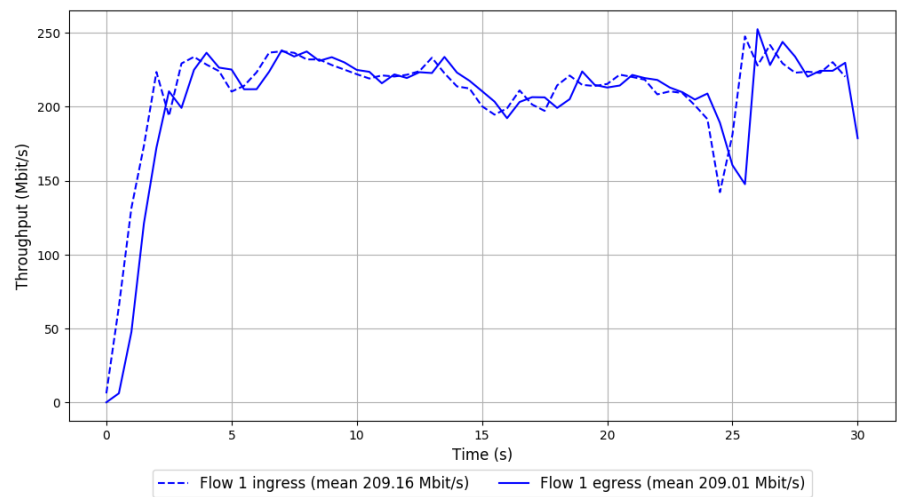
-- Flow 1:

Average throughput: 209.01 Mbit/s

95th percentile per-packet one-way delay: 87.060 ms

Loss rate: 0.64%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-05-30 19:05:55

End at: 2018-05-30 19:06:25

Local clock offset: 4.355 ms

Remote clock offset: 0.08 ms

Below is generated by plot.py at 2018-05-30 23:26:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.21 Mbit/s

95th percentile per-packet one-way delay: 87.962 ms

Loss rate: 0.55%

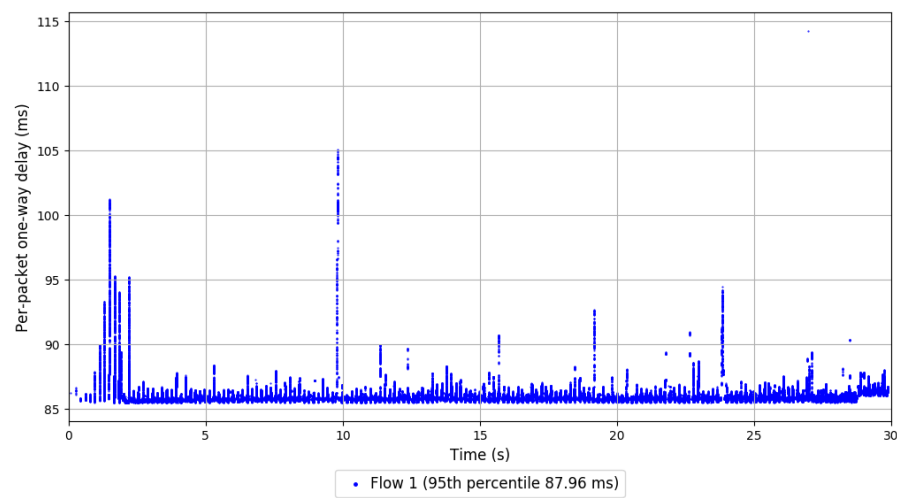
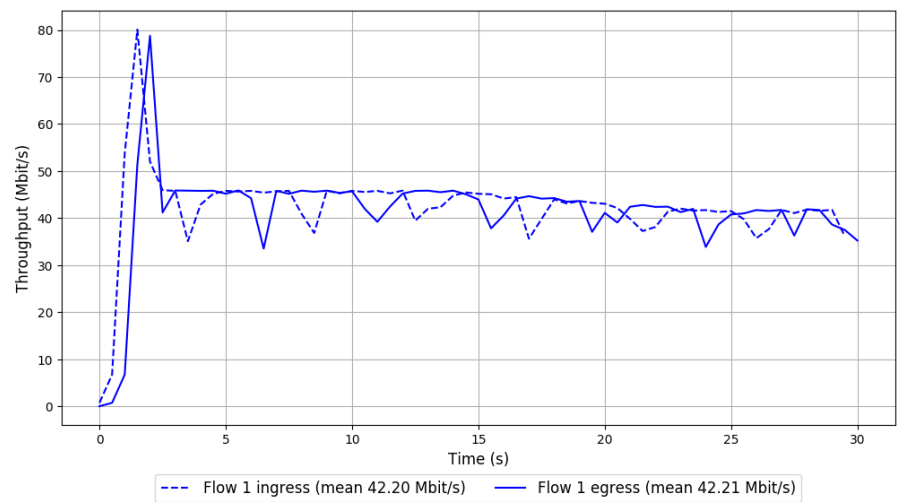
-- Flow 1:

Average throughput: 42.21 Mbit/s

95th percentile per-packet one-way delay: 87.962 ms

Loss rate: 0.55%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-05-30 19:25:59

End at: 2018-05-30 19:26:30

Local clock offset: 4.959 ms

Remote clock offset: 0.078 ms

Below is generated by plot.py at 2018-05-30 23:26:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.29 Mbit/s

95th percentile per-packet one-way delay: 88.240 ms

Loss rate: 0.61%

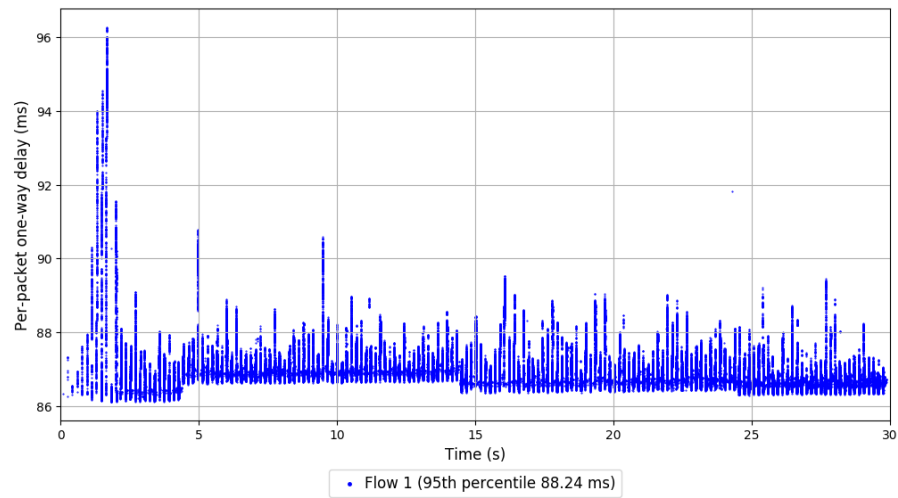
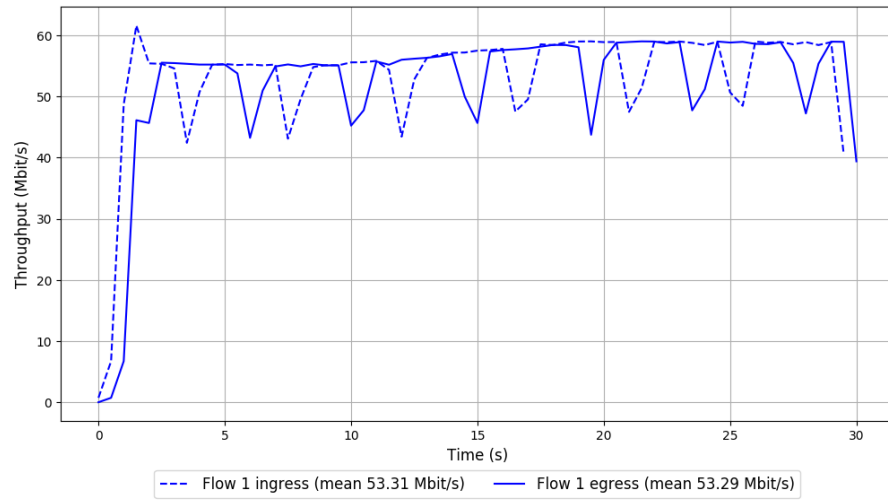
-- Flow 1:

Average throughput: 53.29 Mbit/s

95th percentile per-packet one-way delay: 88.240 ms

Loss rate: 0.61%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-05-30 19:46:26

End at: 2018-05-30 19:46:56

Local clock offset: 2.151 ms

Remote clock offset: 0.114 ms

Below is generated by plot.py at 2018-05-30 23:26:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.78 Mbit/s

95th percentile per-packet one-way delay: 87.940 ms

Loss rate: 0.59%

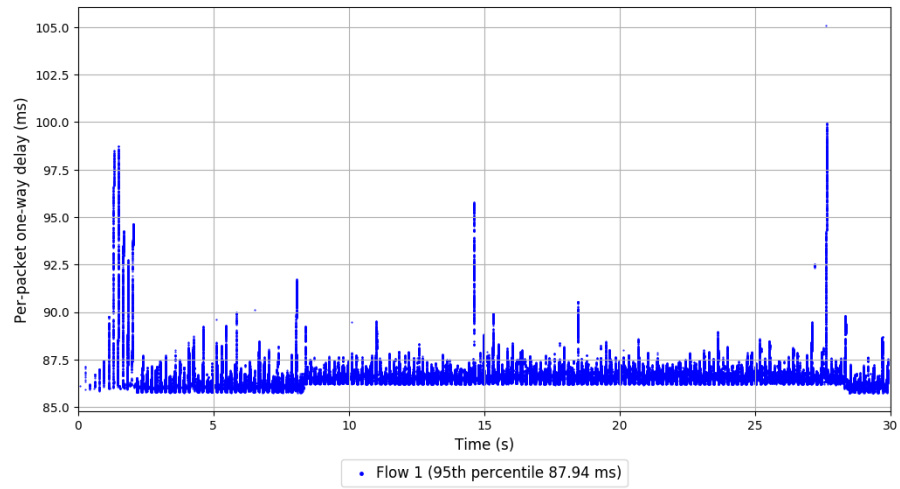
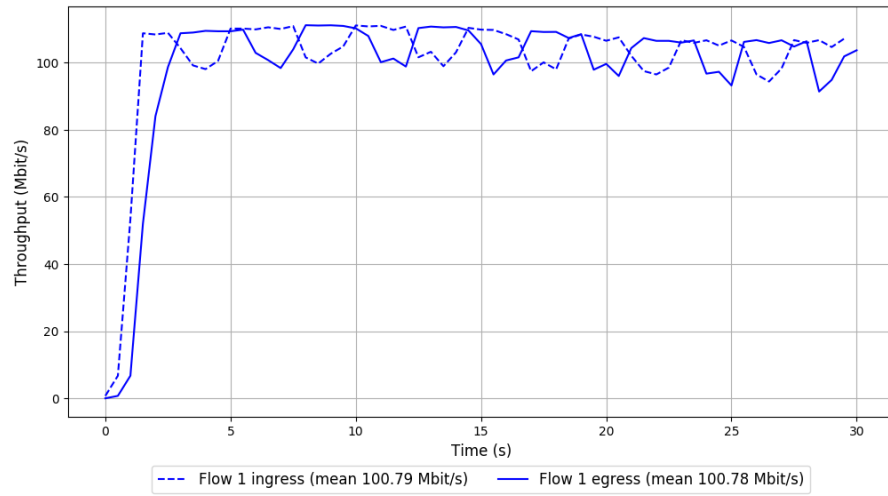
-- Flow 1:

Average throughput: 100.78 Mbit/s

95th percentile per-packet one-way delay: 87.940 ms

Loss rate: 0.59%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-05-30 20:06:59

End at: 2018-05-30 20:07:29

Local clock offset: 1.624 ms

Remote clock offset: 0.155 ms

Below is generated by plot.py at 2018-05-30 23:26:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.02 Mbit/s

95th percentile per-packet one-way delay: 89.169 ms

Loss rate: 0.64%

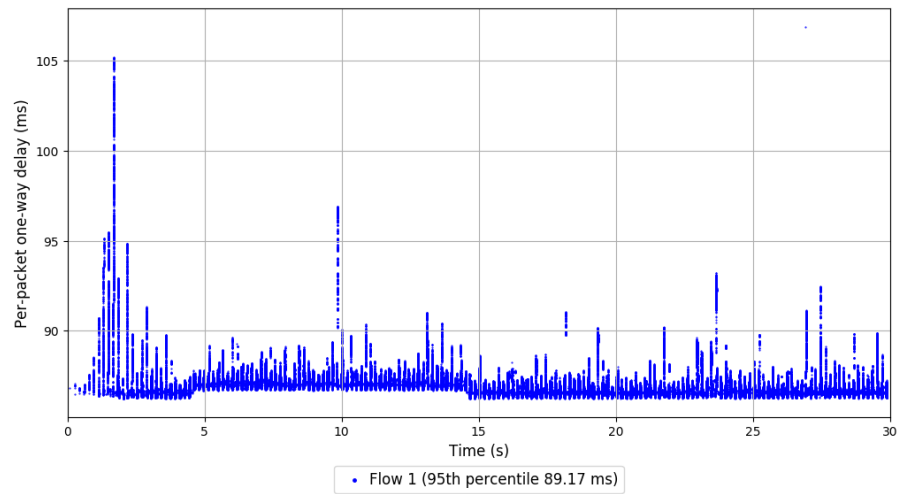
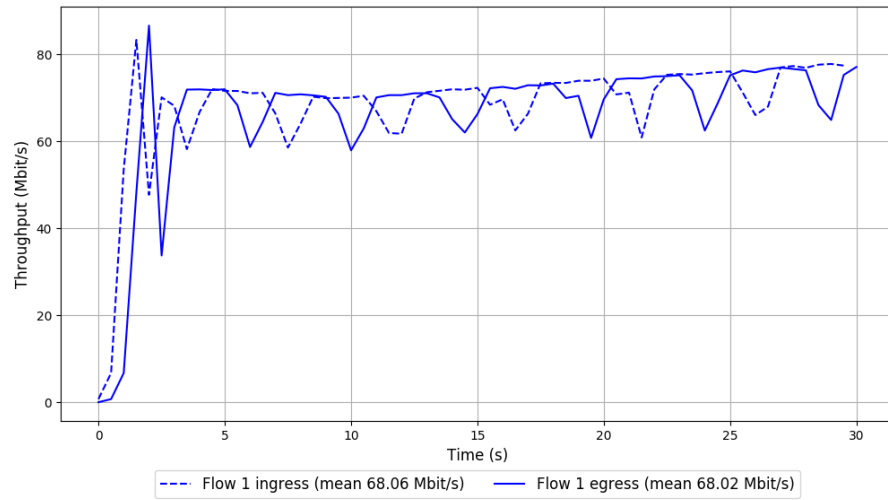
-- Flow 1:

Average throughput: 68.02 Mbit/s

95th percentile per-packet one-way delay: 89.169 ms

Loss rate: 0.64%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-05-30 20:27:30

End at: 2018-05-30 20:28:00

Local clock offset: 1.1 ms

Remote clock offset: 0.159 ms

Below is generated by plot.py at 2018-05-30 23:26:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.47 Mbit/s

95th percentile per-packet one-way delay: 88.337 ms

Loss rate: 0.62%

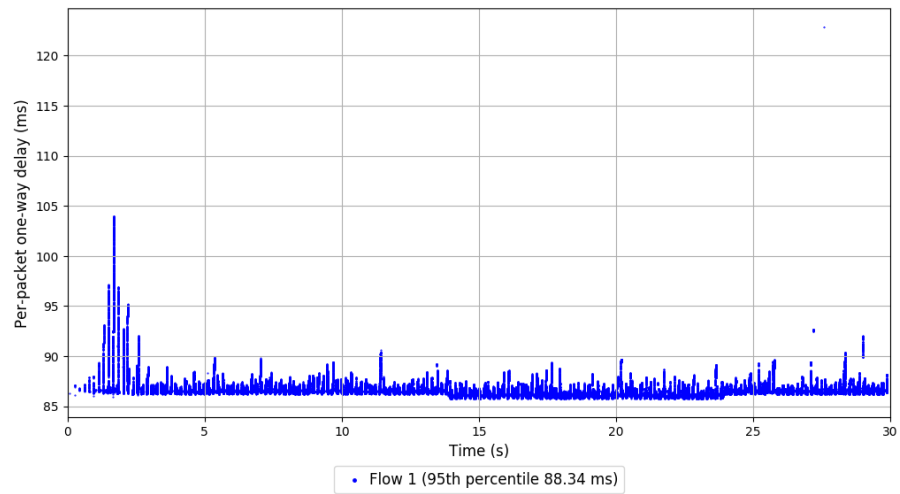
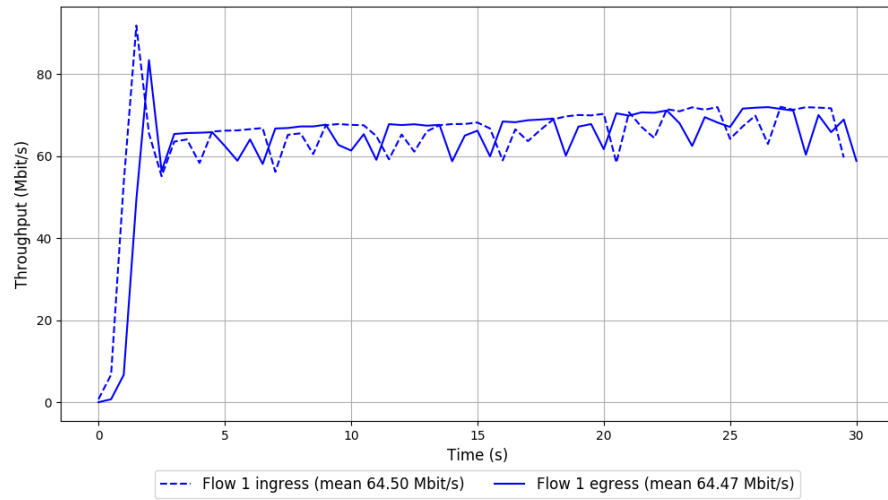
-- Flow 1:

Average throughput: 64.47 Mbit/s

95th percentile per-packet one-way delay: 88.337 ms

Loss rate: 0.62%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-05-30 20:48:06

End at: 2018-05-30 20:48:36

Local clock offset: 0.593 ms

Remote clock offset: 0.213 ms

Below is generated by plot.py at 2018-05-30 23:26:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.73 Mbit/s

95th percentile per-packet one-way delay: 88.395 ms

Loss rate: 0.61%

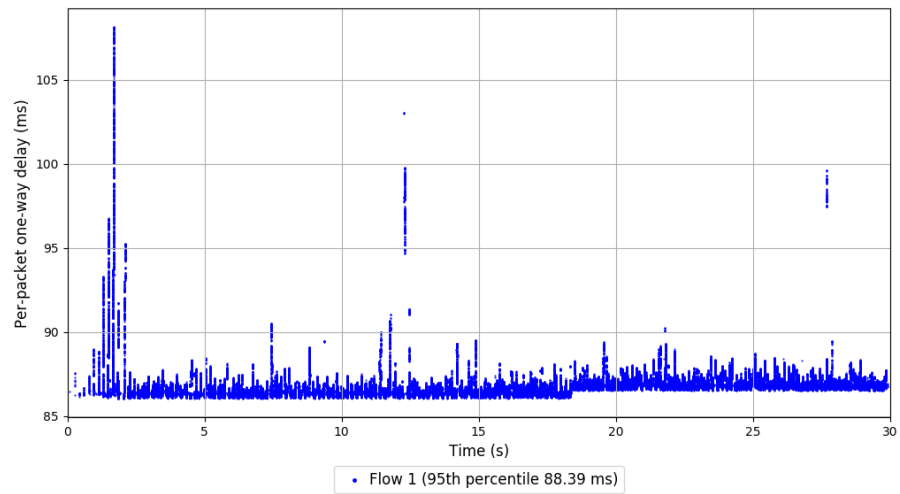
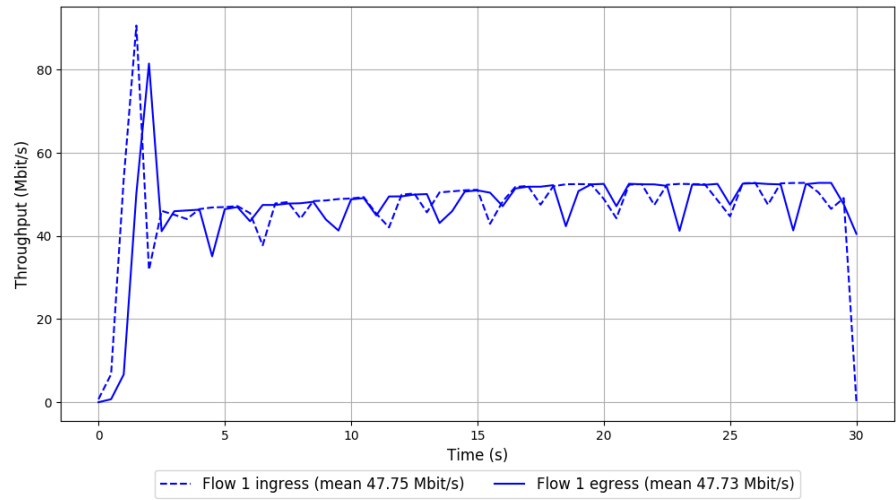
-- Flow 1:

Average throughput: 47.73 Mbit/s

95th percentile per-packet one-way delay: 88.395 ms

Loss rate: 0.61%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-05-30 21:08:22

End at: 2018-05-30 21:08:52

Local clock offset: 0.692 ms

Remote clock offset: 0.205 ms

Below is generated by plot.py at 2018-05-30 23:26:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.48 Mbit/s

95th percentile per-packet one-way delay: 88.657 ms

Loss rate: 0.65%

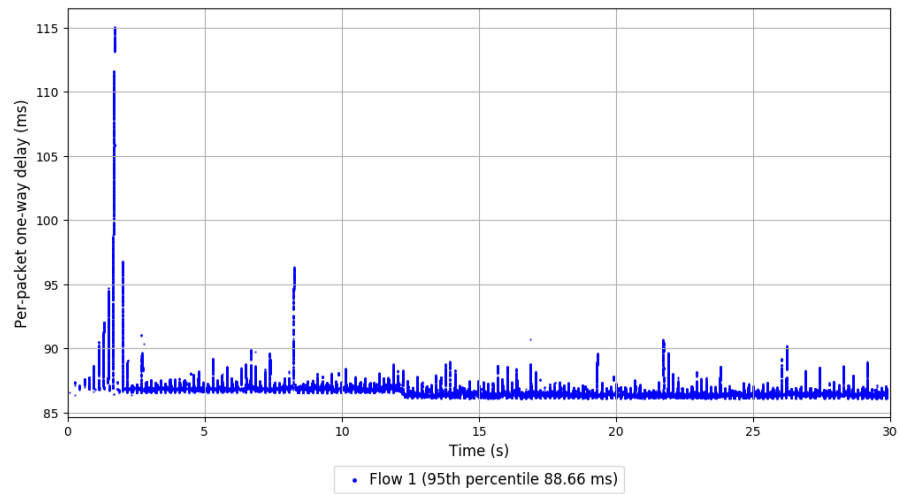
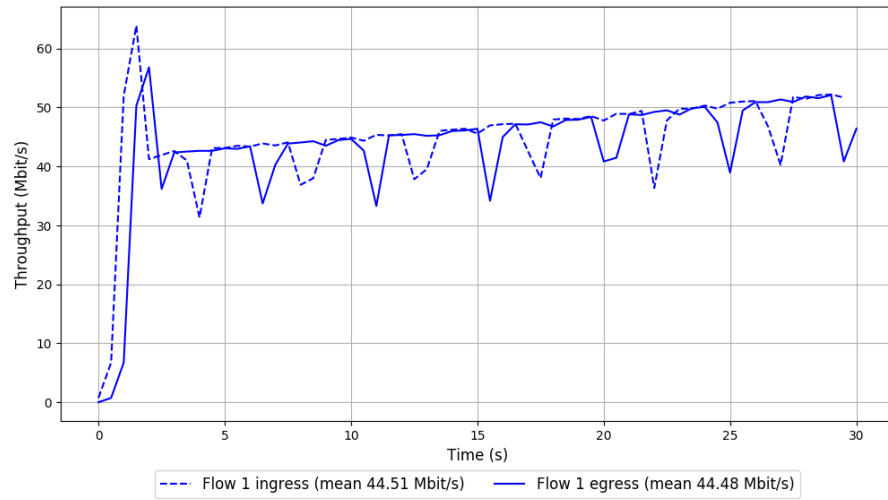
-- Flow 1:

Average throughput: 44.48 Mbit/s

95th percentile per-packet one-way delay: 88.657 ms

Loss rate: 0.65%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-05-30 21:28:49

End at: 2018-05-30 21:29:19

Local clock offset: 0.473 ms

Remote clock offset: 0.235 ms

Below is generated by plot.py at 2018-05-30 23:26:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.03 Mbit/s

95th percentile per-packet one-way delay: 87.666 ms

Loss rate: 0.63%

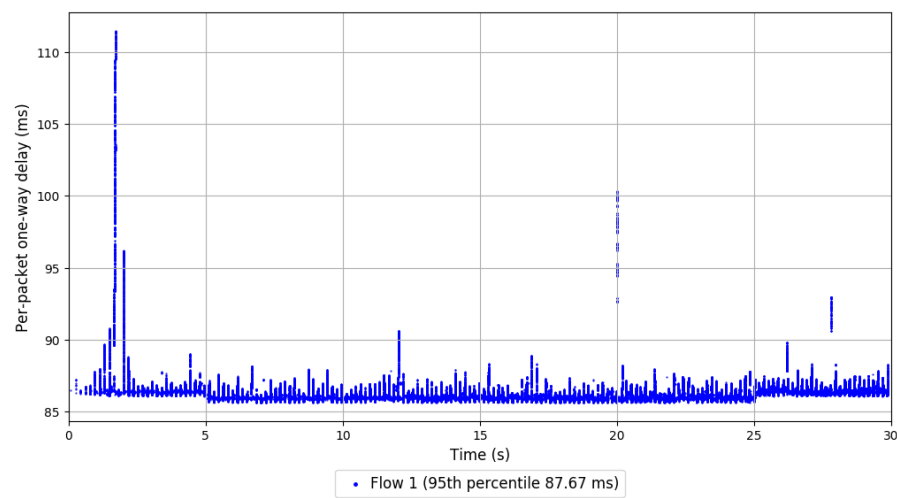
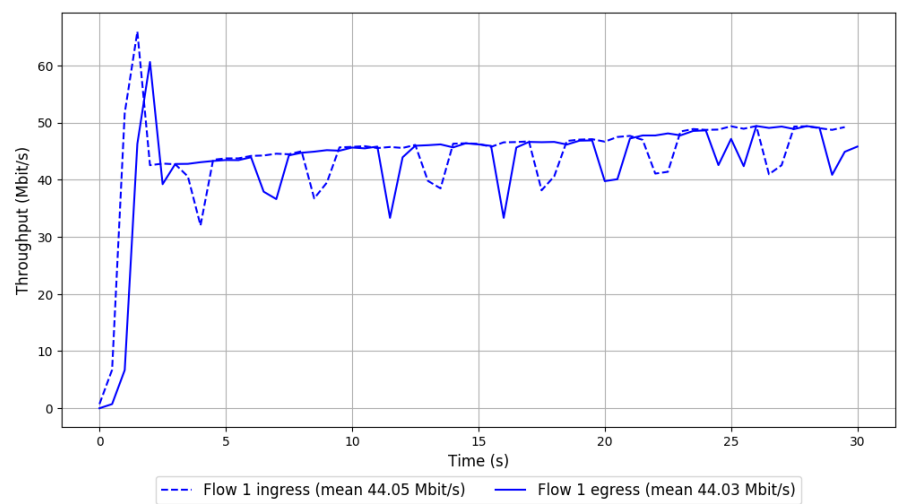
-- Flow 1:

Average throughput: 44.03 Mbit/s

95th percentile per-packet one-way delay: 87.666 ms

Loss rate: 0.63%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-05-30 21:49:19

End at: 2018-05-30 21:49:49

Local clock offset: -0.054 ms

Remote clock offset: 0.265 ms

Below is generated by plot.py at 2018-05-30 23:26:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.61 Mbit/s

95th percentile per-packet one-way delay: 88.200 ms

Loss rate: 0.60%

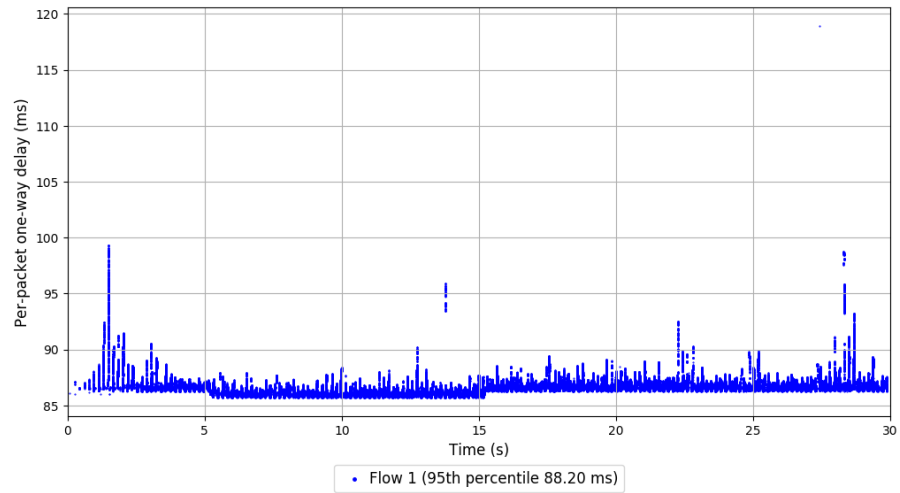
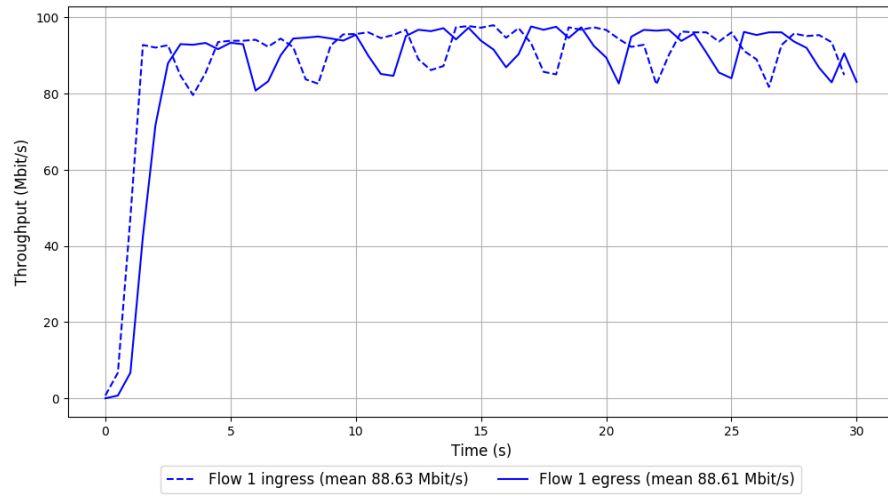
-- Flow 1:

Average throughput: 88.61 Mbit/s

95th percentile per-packet one-way delay: 88.200 ms

Loss rate: 0.60%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-05-30 22:09:47

End at: 2018-05-30 22:10:17

Local clock offset: -0.306 ms

Remote clock offset: 0.303 ms

Below is generated by plot.py at 2018-05-30 23:26:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.68 Mbit/s

95th percentile per-packet one-way delay: 88.533 ms

Loss rate: 0.65%

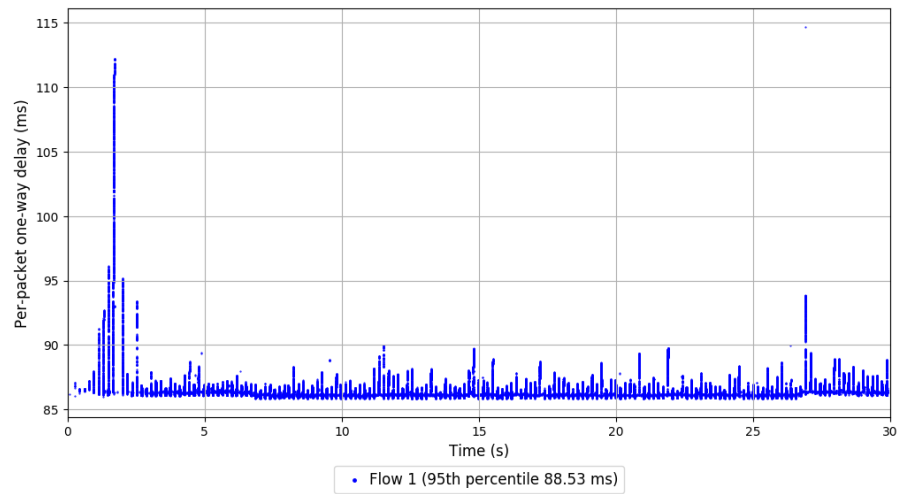
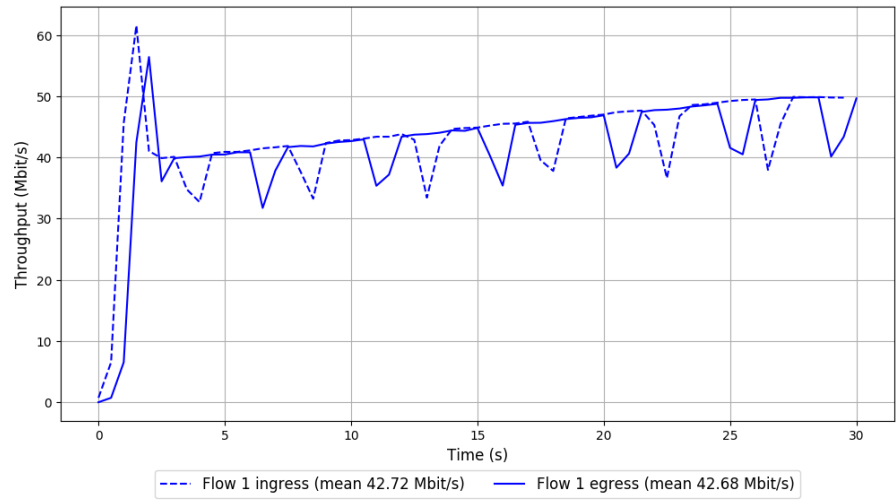
-- Flow 1:

Average throughput: 42.68 Mbit/s

95th percentile per-packet one-way delay: 88.533 ms

Loss rate: 0.65%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-05-30 18:51:48

End at: 2018-05-30 18:52:18

Local clock offset: 10.065 ms

Remote clock offset: 0.096 ms

Below is generated by plot.py at 2018-05-30 23:26:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 137.93 Mbit/s

95th percentile per-packet one-way delay: 130.726 ms

Loss rate: 1.96%

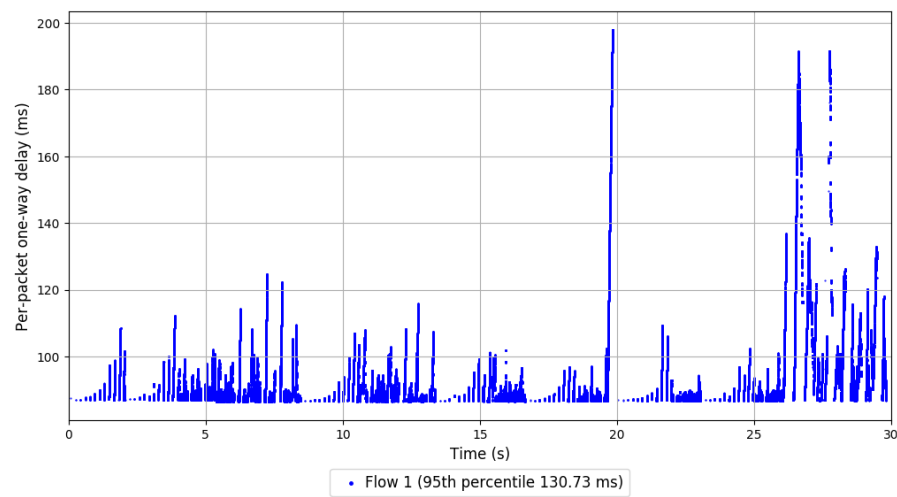
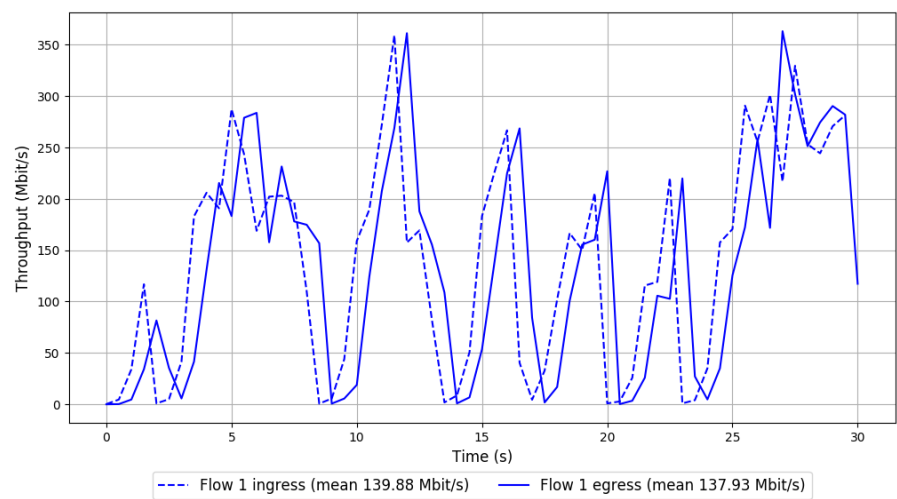
-- Flow 1:

Average throughput: 137.93 Mbit/s

95th percentile per-packet one-way delay: 130.726 ms

Loss rate: 1.96%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-05-30 19:11:55

End at: 2018-05-30 19:12:25

Local clock offset: 4.801 ms

Remote clock offset: 0.091 ms

Below is generated by plot.py at 2018-05-30 23:26:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.42 Mbit/s

95th percentile per-packet one-way delay: 123.701 ms

Loss rate: 0.00%

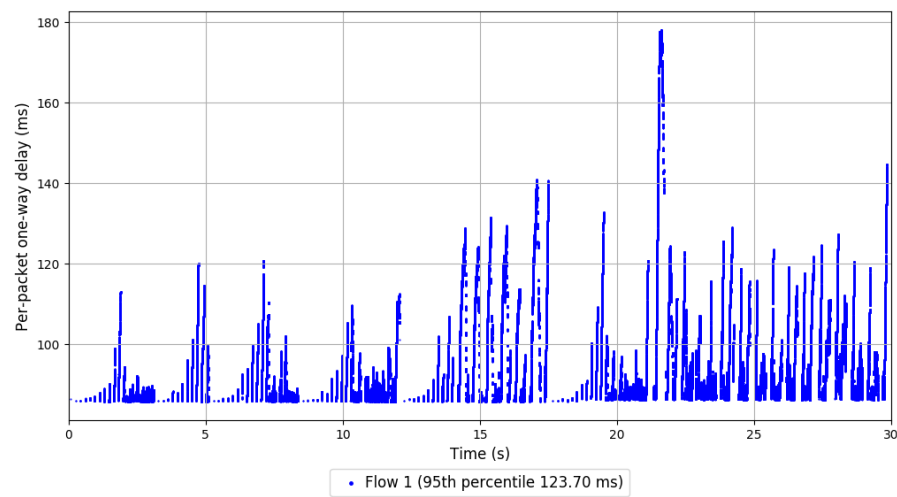
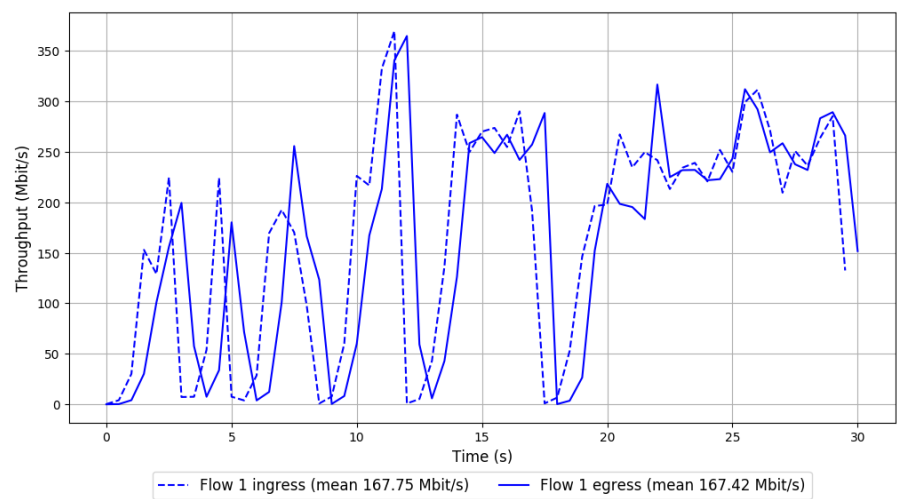
-- Flow 1:

Average throughput: 167.42 Mbit/s

95th percentile per-packet one-way delay: 123.701 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-05-30 19:32:06

End at: 2018-05-30 19:32:36

Local clock offset: 2.774 ms

Remote clock offset: 0.067 ms

Below is generated by plot.py at 2018-05-30 23:26:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.92 Mbit/s

95th percentile per-packet one-way delay: 251.935 ms

Loss rate: 1.92%

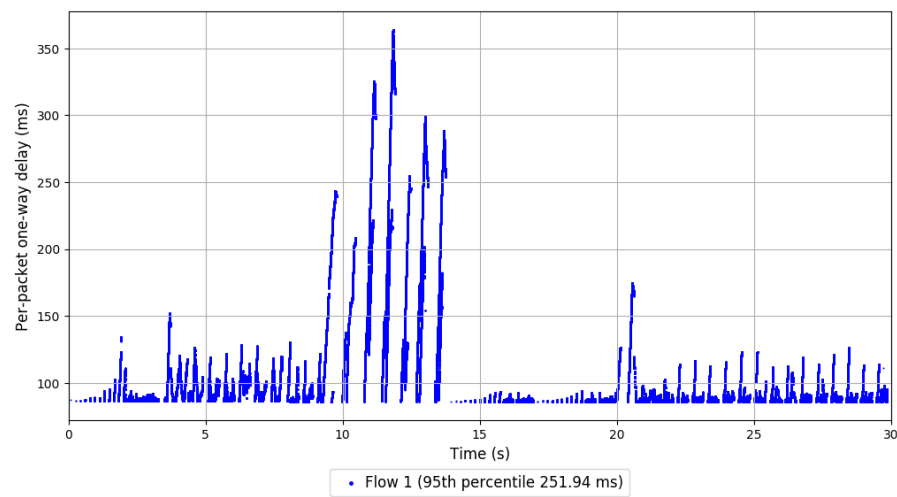
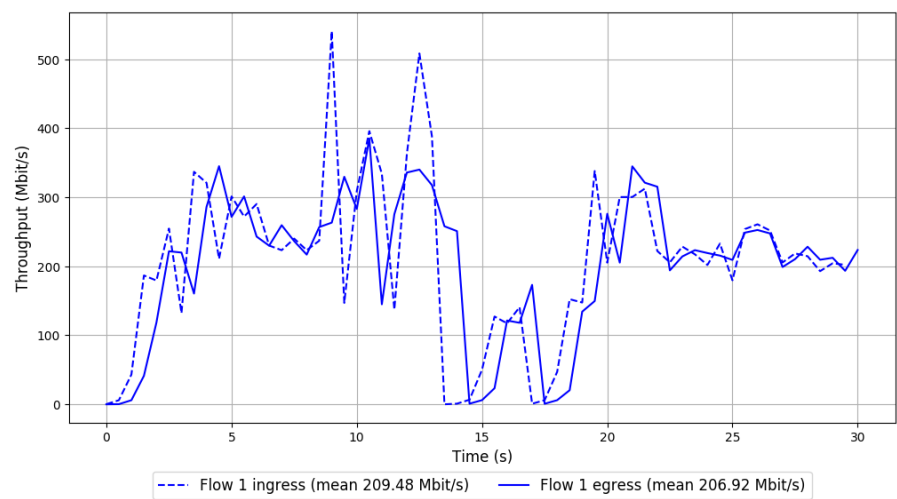
-- Flow 1:

Average throughput: 206.92 Mbit/s

95th percentile per-packet one-way delay: 251.935 ms

Loss rate: 1.92%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-05-30 19:52:38

End at: 2018-05-30 19:53:08

Local clock offset: 2.832 ms

Remote clock offset: 0.101 ms

Below is generated by plot.py at 2018-05-30 23:26:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.21 Mbit/s

95th percentile per-packet one-way delay: 139.910 ms

Loss rate: 0.94%

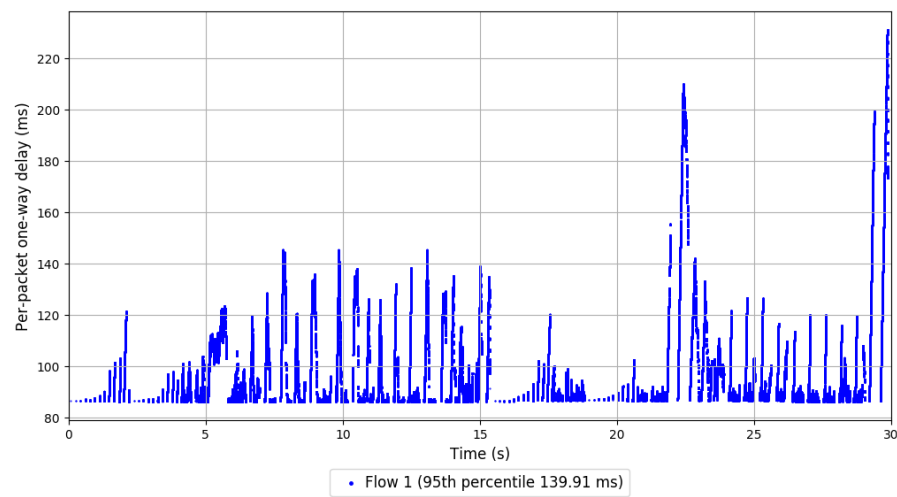
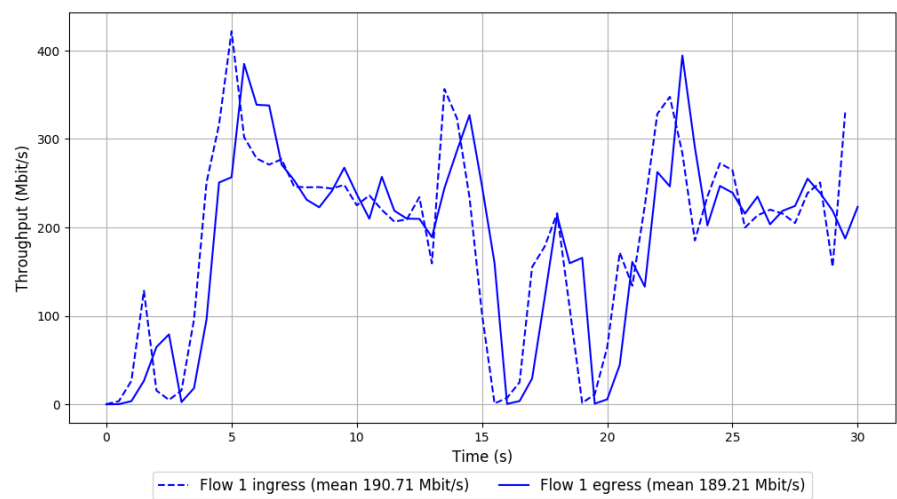
-- Flow 1:

Average throughput: 189.21 Mbit/s

95th percentile per-packet one-way delay: 139.910 ms

Loss rate: 0.94%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-05-30 20:13:15

End at: 2018-05-30 20:13:45

Local clock offset: 1.411 ms

Remote clock offset: 0.125 ms

Below is generated by plot.py at 2018-05-30 23:27:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.63 Mbit/s

95th percentile per-packet one-way delay: 149.750 ms

Loss rate: 0.75%

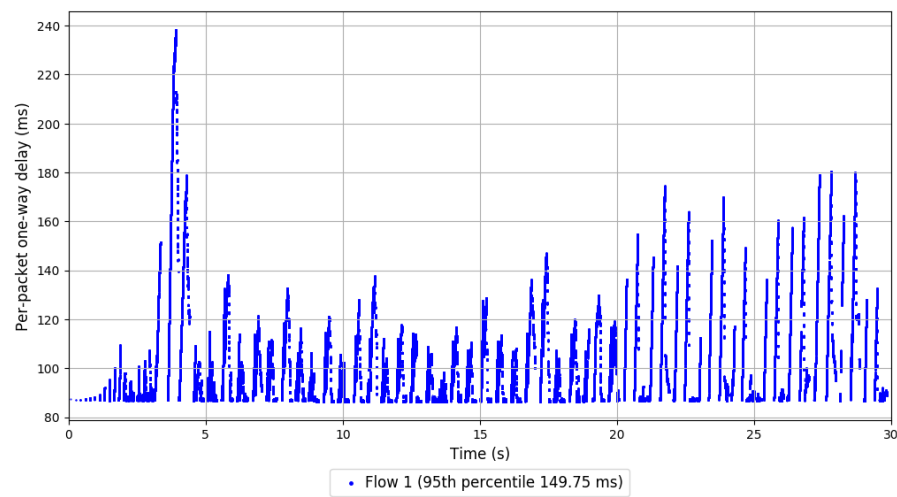
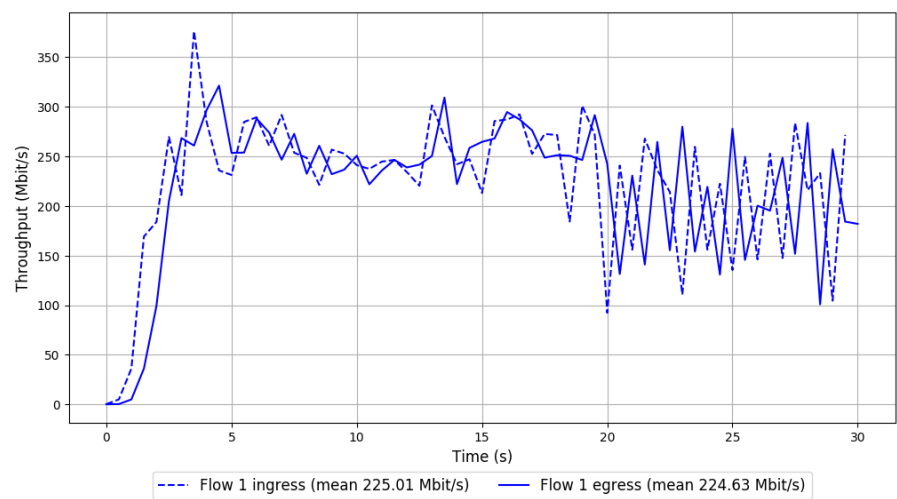
-- Flow 1:

Average throughput: 224.63 Mbit/s

95th percentile per-packet one-way delay: 149.750 ms

Loss rate: 0.75%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-05-30 20:33:45

End at: 2018-05-30 20:34:15

Local clock offset: 1.409 ms

Remote clock offset: 0.167 ms

Below is generated by plot.py at 2018-05-30 23:27:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 144.74 Mbit/s

95th percentile per-packet one-way delay: 204.395 ms

Loss rate: 1.74%

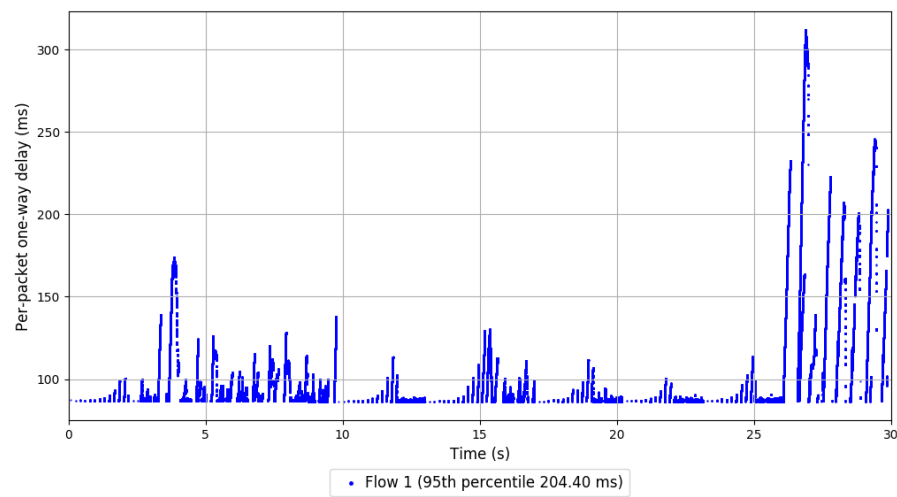
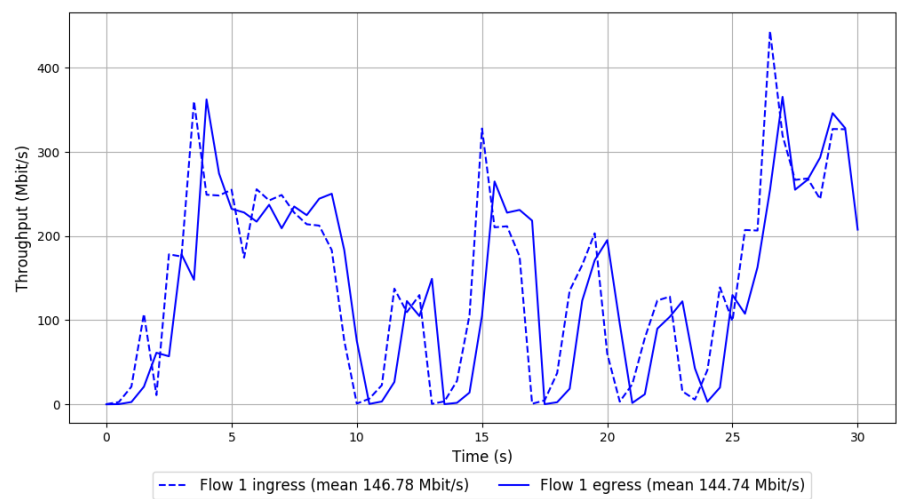
-- Flow 1:

Average throughput: 144.74 Mbit/s

95th percentile per-packet one-way delay: 204.395 ms

Loss rate: 1.74%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-05-30 20:54:19

End at: 2018-05-30 20:54:49

Local clock offset: 0.304 ms

Remote clock offset: 0.214 ms

Below is generated by plot.py at 2018-05-30 23:28:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.44 Mbit/s

95th percentile per-packet one-way delay: 208.182 ms

Loss rate: 0.14%

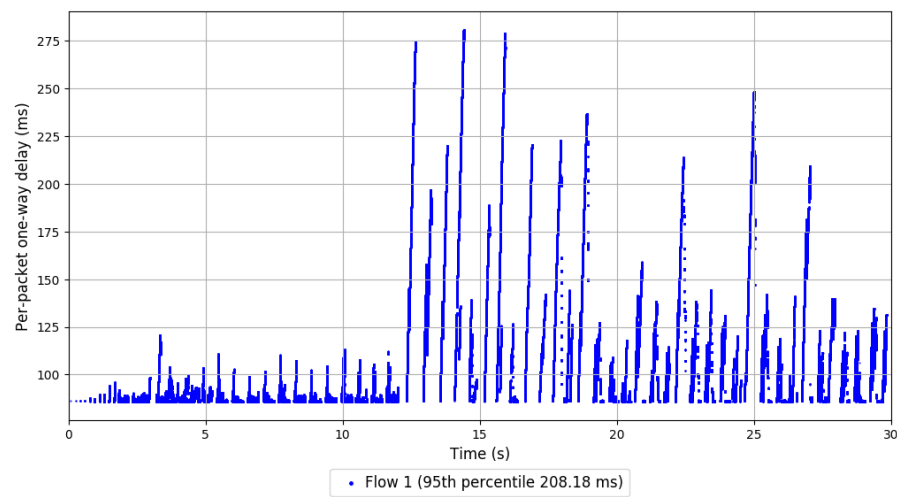
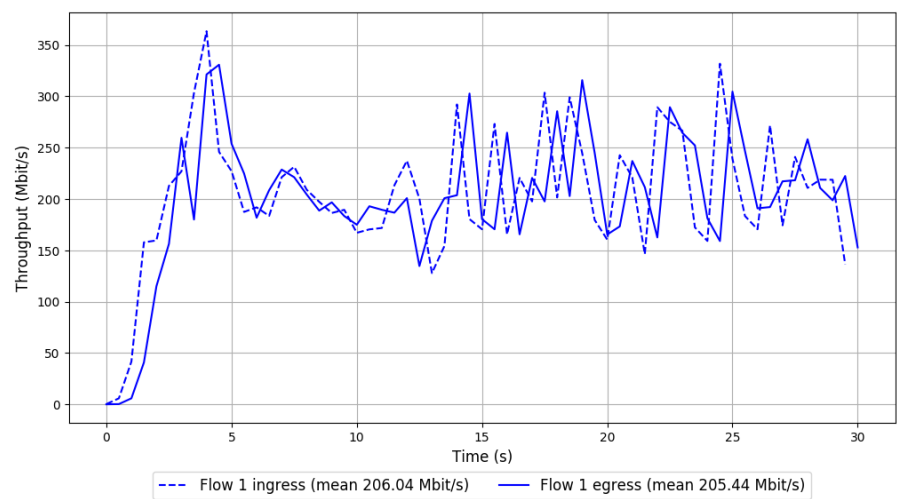
-- Flow 1:

Average throughput: 205.44 Mbit/s

95th percentile per-packet one-way delay: 208.182 ms

Loss rate: 0.14%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-05-30 21:14:34

End at: 2018-05-30 21:15:04

Local clock offset: 0.431 ms

Remote clock offset: 0.237 ms

Below is generated by plot.py at 2018-05-30 23:28:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 141.05 Mbit/s

95th percentile per-packet one-way delay: 125.239 ms

Loss rate: 0.40%

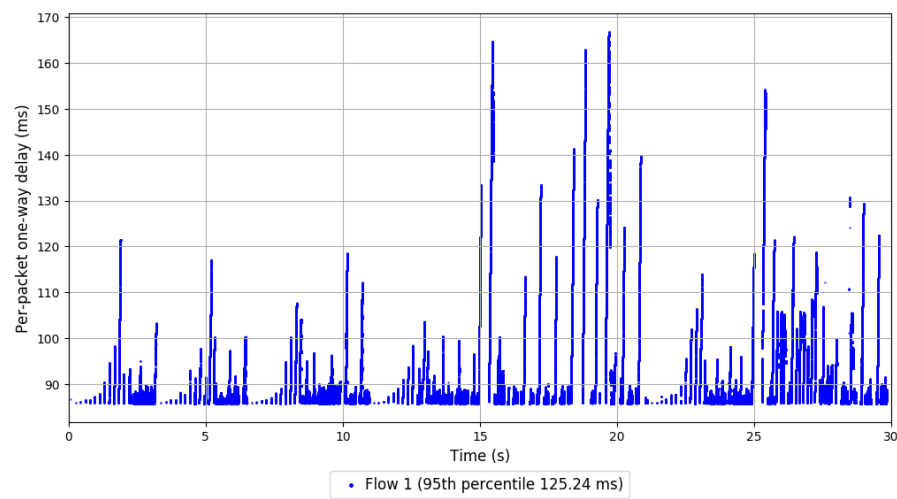
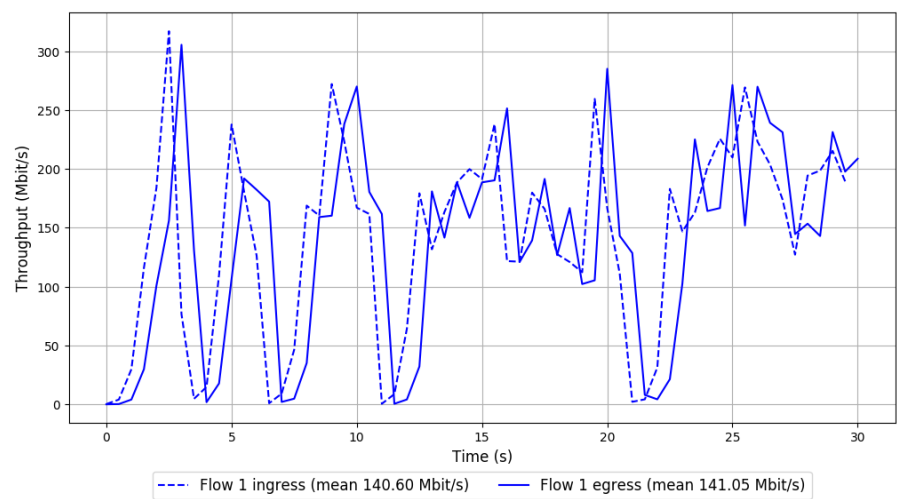
-- Flow 1:

Average throughput: 141.05 Mbit/s

95th percentile per-packet one-way delay: 125.239 ms

Loss rate: 0.40%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-05-30 21:35:01

End at: 2018-05-30 21:35:31

Local clock offset: 0.905 ms

Remote clock offset: 0.262 ms

Below is generated by plot.py at 2018-05-30 23:30:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.95 Mbit/s

95th percentile per-packet one-way delay: 174.337 ms

Loss rate: 0.22%

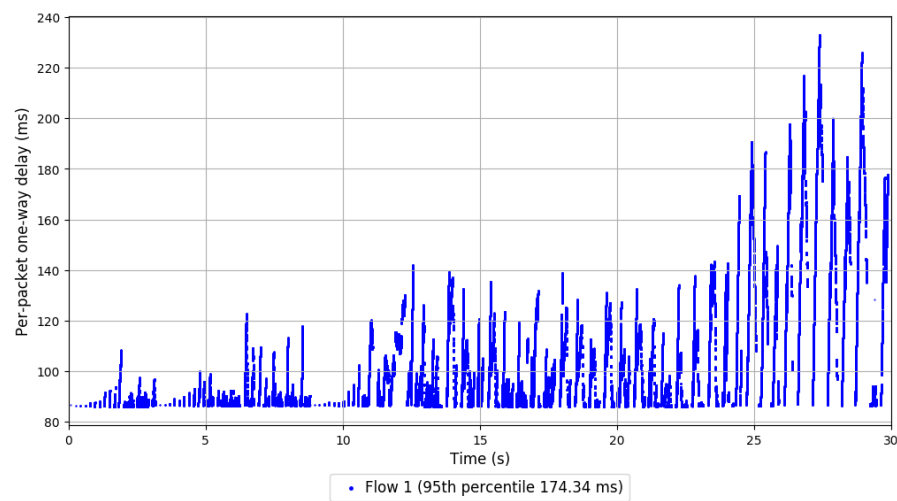
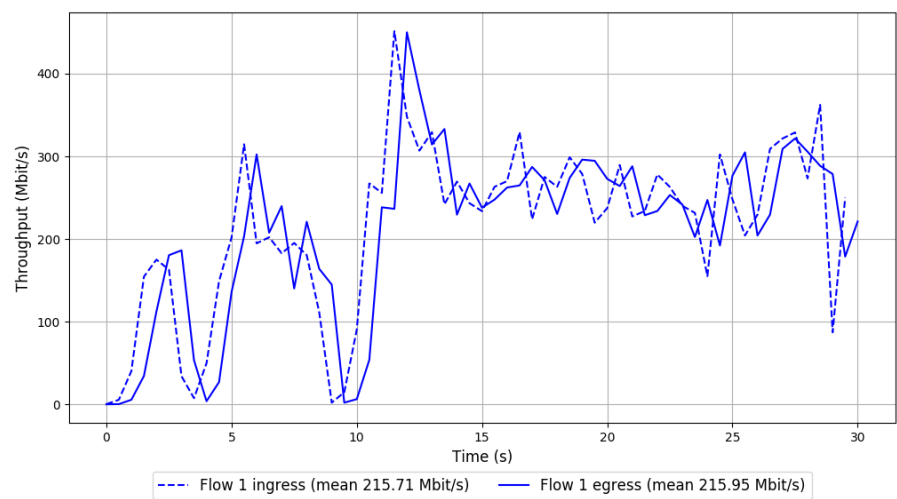
-- Flow 1:

Average throughput: 215.95 Mbit/s

95th percentile per-packet one-way delay: 174.337 ms

Loss rate: 0.22%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-05-30 21:55:34

End at: 2018-05-30 21:56:04

Local clock offset: -0.152 ms

Remote clock offset: 0.266 ms

Below is generated by plot.py at 2018-05-30 23:30:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.86 Mbit/s

95th percentile per-packet one-way delay: 139.432 ms

Loss rate: 1.40%

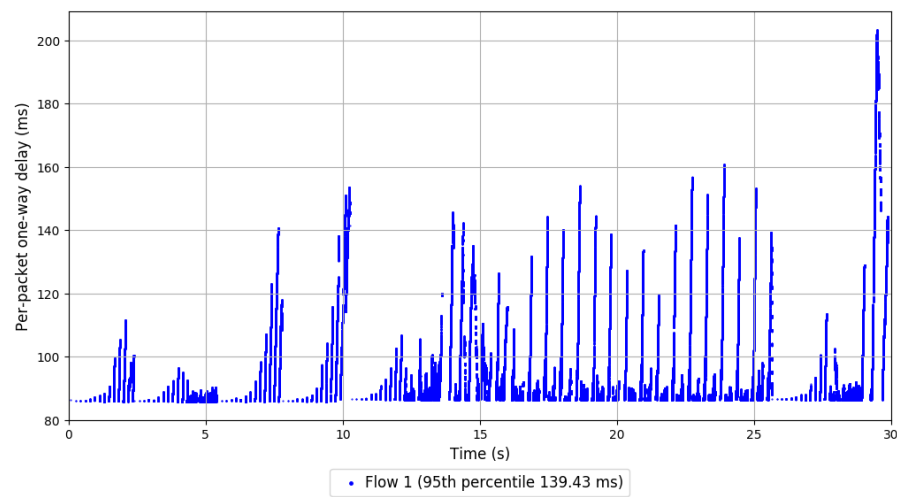
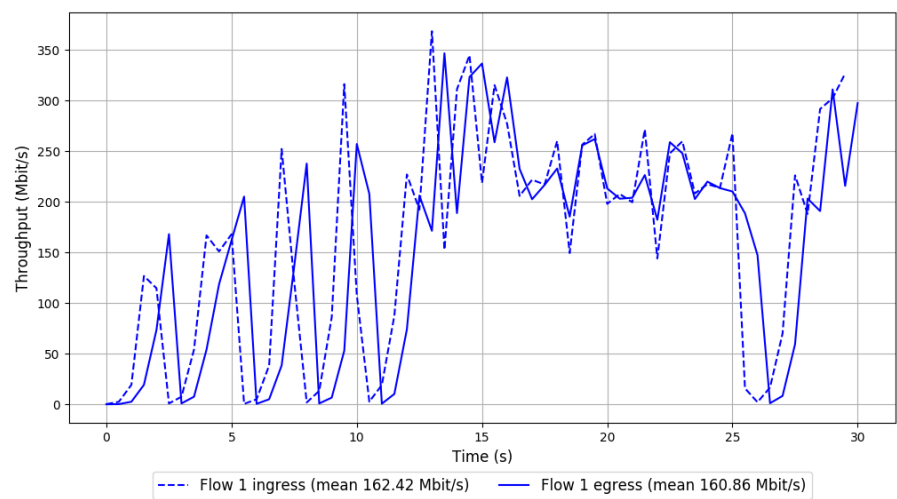
-- Flow 1:

Average throughput: 160.86 Mbit/s

95th percentile per-packet one-way delay: 139.432 ms

Loss rate: 1.40%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-05-30 18:59:32

End at: 2018-05-30 19:00:02

Local clock offset: 5.838 ms

Remote clock offset: 0.059 ms

Below is generated by plot.py at 2018-05-30 23:31:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.27 Mbit/s

95th percentile per-packet one-way delay: 86.883 ms

Loss rate: 0.55%

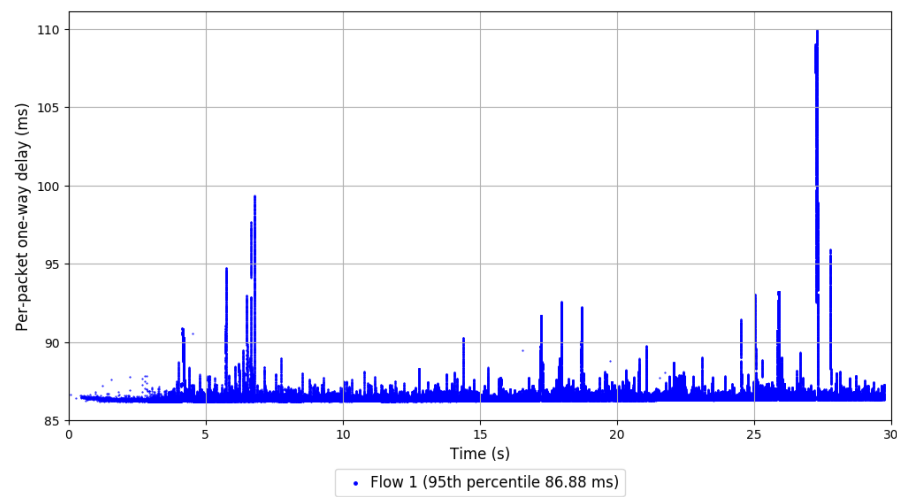
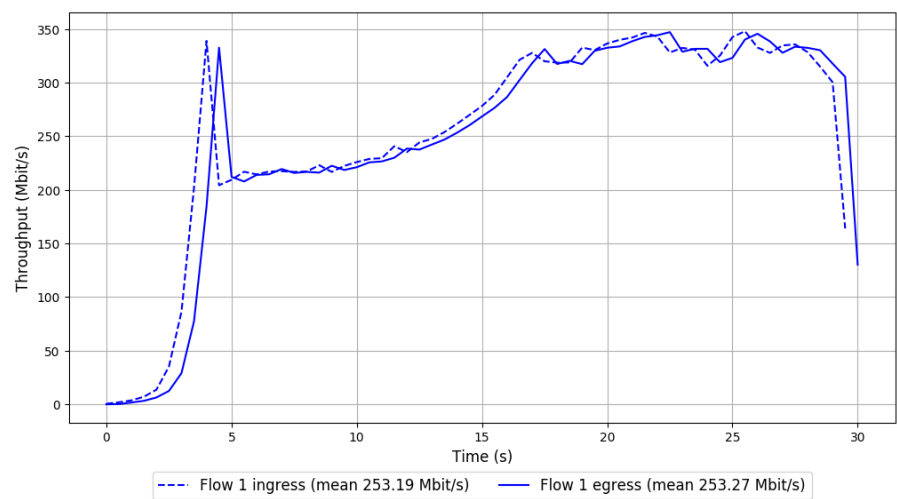
-- Flow 1:

Average throughput: 253.27 Mbit/s

95th percentile per-packet one-way delay: 86.883 ms

Loss rate: 0.55%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-05-30 19:19:37

End at: 2018-05-30 19:20:07

Local clock offset: 5.71 ms

Remote clock offset: 0.13 ms

Below is generated by plot.py at 2018-05-30 23:31:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.69 Mbit/s

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

Loss rate: 0.68%

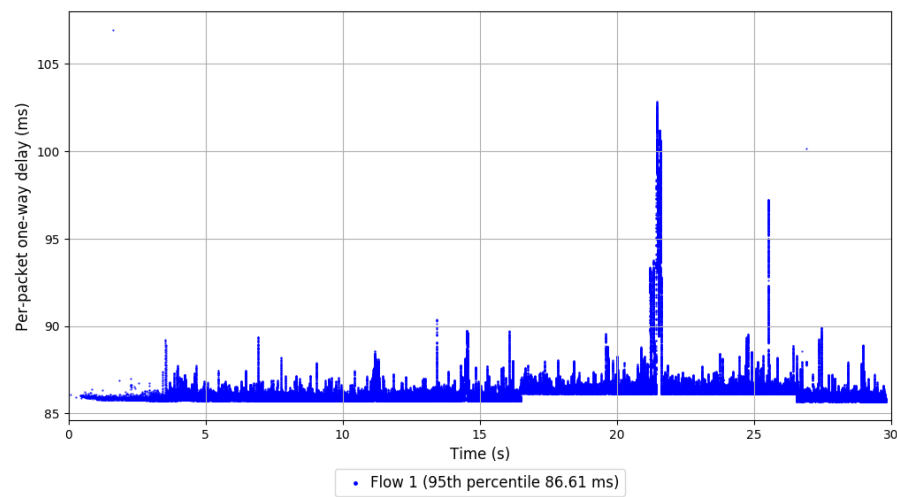
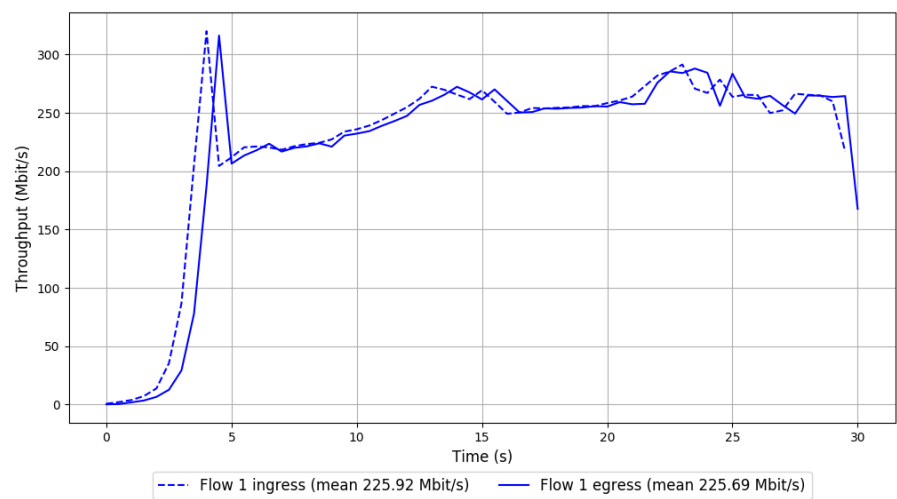
-- Flow 1:

Average throughput: 225.69 Mbit/s

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

Loss rate: 0.68%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-05-30 19:40:00

End at: 2018-05-30 19:40:30

Local clock offset: 2.277 ms

Remote clock offset: 0.12 ms

Below is generated by plot.py at 2018-05-30 23:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 250.78 Mbit/s

95th percentile per-packet one-way delay: 86.502 ms

Loss rate: 0.79%

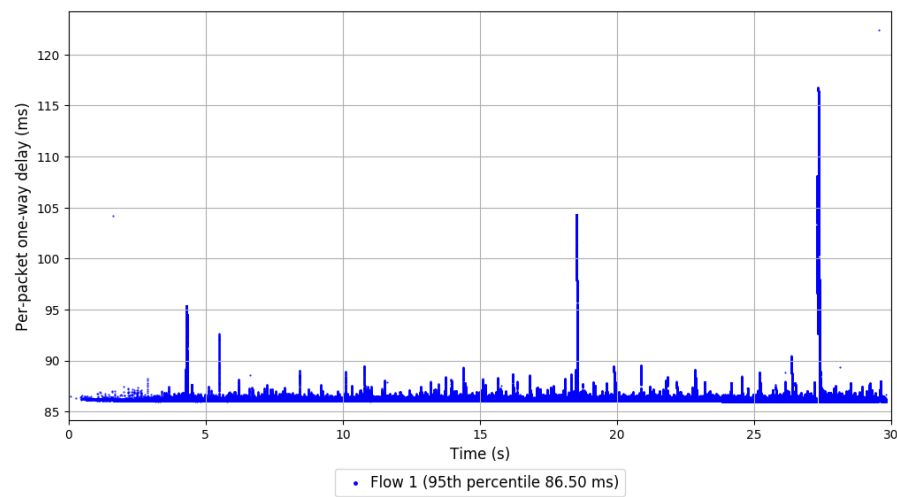
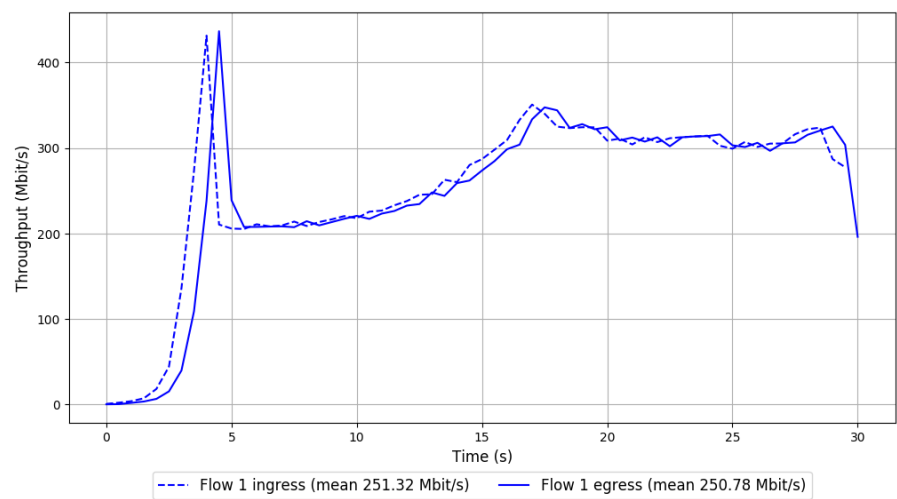
-- Flow 1:

Average throughput: 250.78 Mbit/s

95th percentile per-packet one-way delay: 86.502 ms

Loss rate: 0.79%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-05-30 20:00:35

End at: 2018-05-30 20:01:05

Local clock offset: 1.943 ms

Remote clock offset: 0.081 ms

Below is generated by plot.py at 2018-05-30 23:32:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 240.95 Mbit/s

95th percentile per-packet one-way delay: 86.913 ms

Loss rate: 0.73%

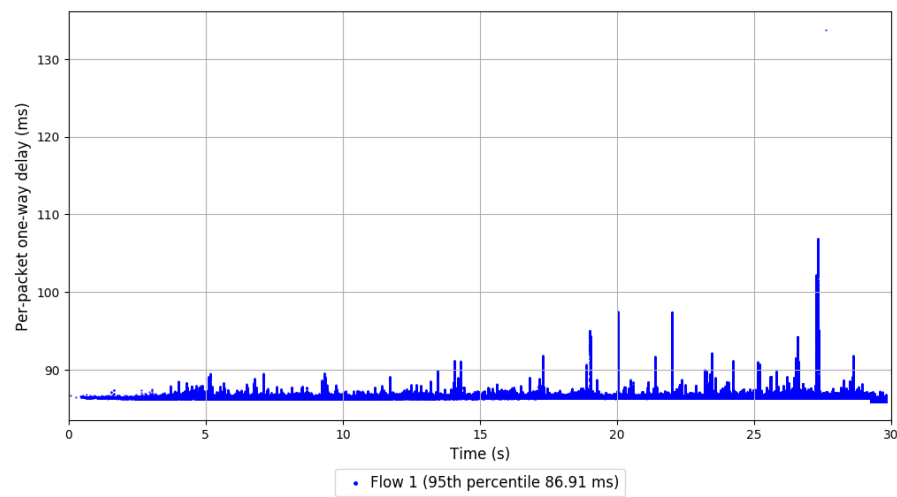
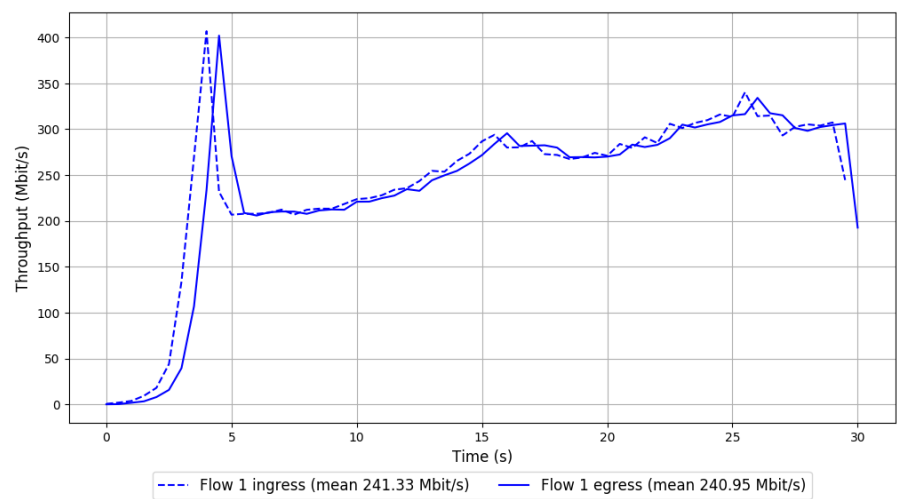
-- Flow 1:

Average throughput: 240.95 Mbit/s

95th percentile per-packet one-way delay: 86.913 ms

Loss rate: 0.73%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-05-30 20:21:07

End at: 2018-05-30 20:21:37

Local clock offset: 1.428 ms

Remote clock offset: 0.156 ms

Below is generated by plot.py at 2018-05-30 23:32:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.36 Mbit/s

95th percentile per-packet one-way delay: 86.676 ms

Loss rate: 0.79%

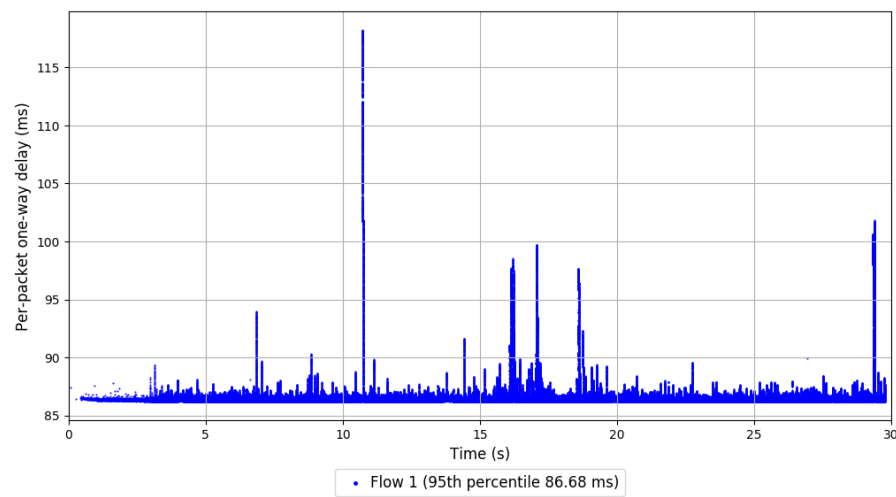
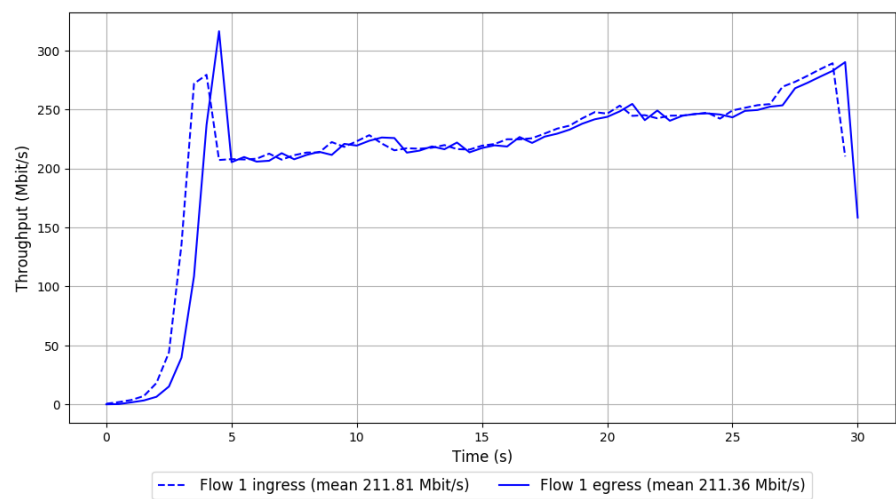
-- Flow 1:

Average throughput: 211.36 Mbit/s

95th percentile per-packet one-way delay: 86.676 ms

Loss rate: 0.79%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-05-30 20:41:38

End at: 2018-05-30 20:42:08

Local clock offset: 0.578 ms

Remote clock offset: 0.193 ms

Below is generated by plot.py at 2018-05-30 23:33:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 291.36 Mbit/s

95th percentile per-packet one-way delay: 86.498 ms

Loss rate: 0.57%

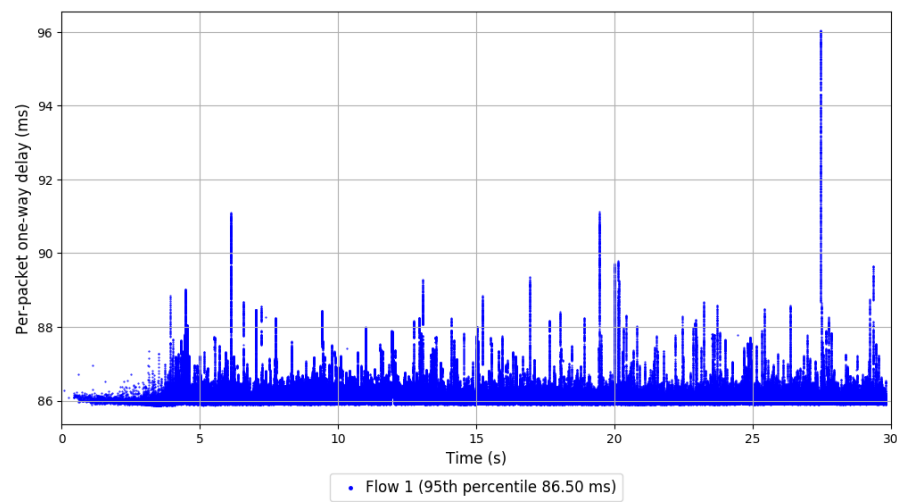
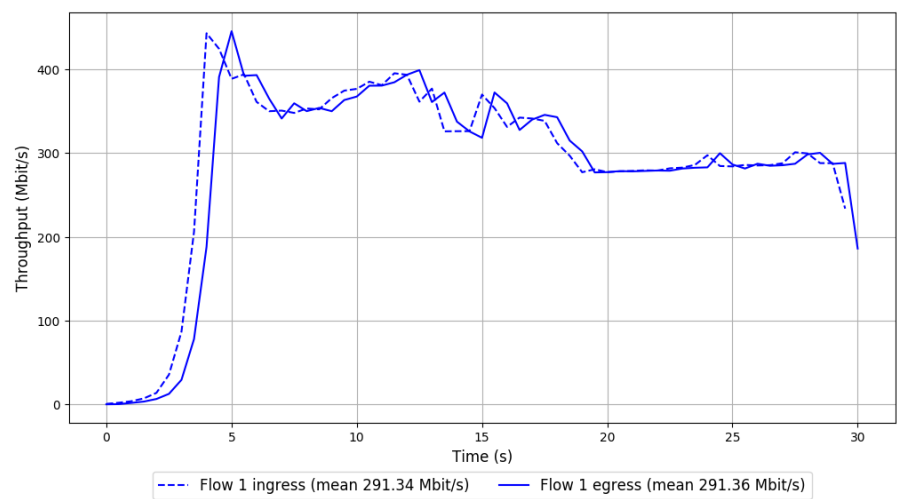
-- Flow 1:

Average throughput: 291.36 Mbit/s

95th percentile per-packet one-way delay: 86.498 ms

Loss rate: 0.57%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-05-30 21:01:56

End at: 2018-05-30 21:02:26

Local clock offset: 0.476 ms

Remote clock offset: 0.181 ms

Below is generated by plot.py at 2018-05-30 23:33:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 247.00 Mbit/s

95th percentile per-packet one-way delay: 87.073 ms

Loss rate: 0.78%

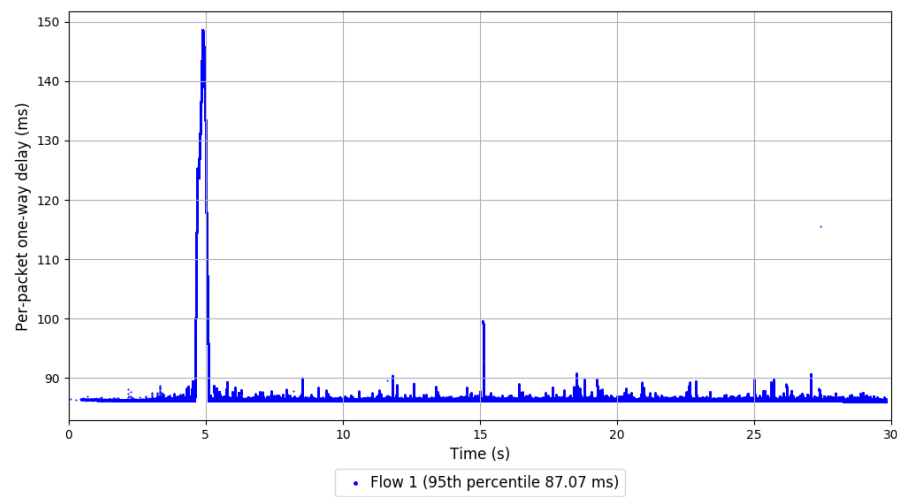
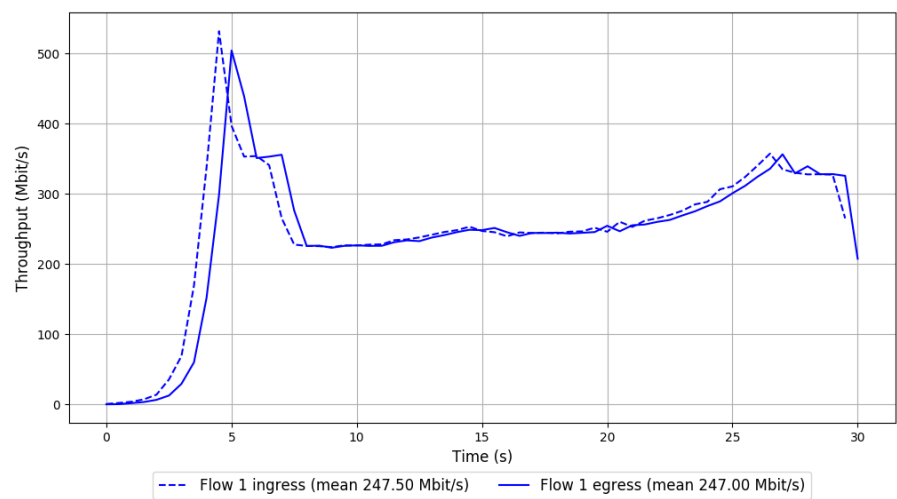
-- Flow 1:

Average throughput: 247.00 Mbit/s

95th percentile per-packet one-way delay: 87.073 ms

Loss rate: 0.78%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-05-30 21:22:26

End at: 2018-05-30 21:22:56

Local clock offset: 0.518 ms

Remote clock offset: 0.237 ms

Below is generated by plot.py at 2018-05-30 23:33:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.22 Mbit/s

95th percentile per-packet one-way delay: 86.848 ms

Loss rate: 0.61%

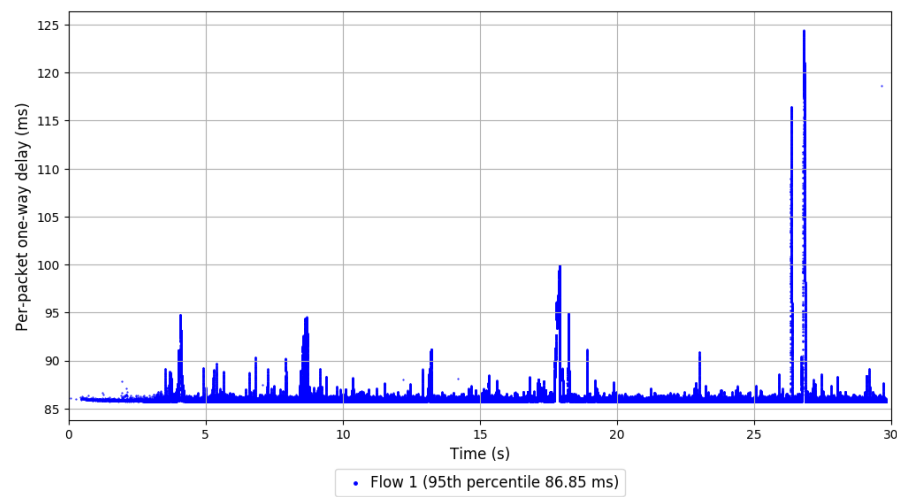
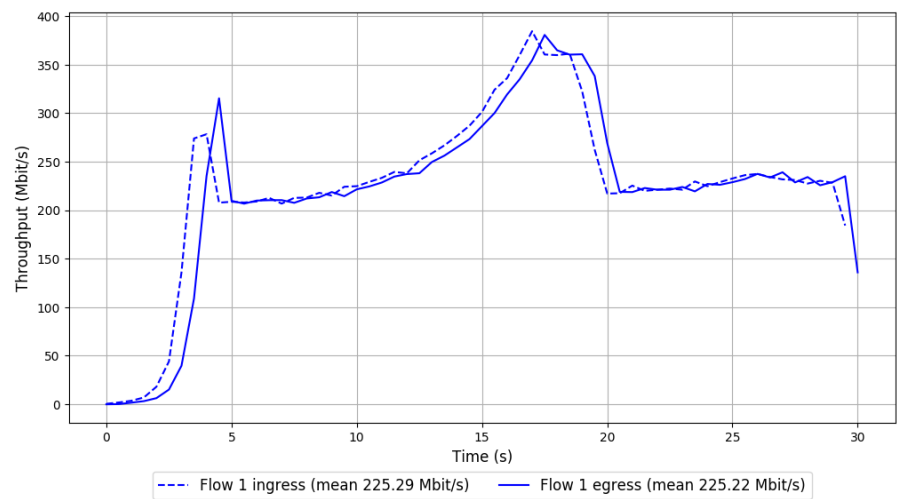
-- Flow 1:

Average throughput: 225.22 Mbit/s

95th percentile per-packet one-way delay: 86.848 ms

Loss rate: 0.61%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-05-30 21:42:55

End at: 2018-05-30 21:43:25

Local clock offset: 0.447 ms

Remote clock offset: 0.224 ms

Below is generated by plot.py at 2018-05-30 23:34:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 268.62 Mbit/s

95th percentile per-packet one-way delay: 86.929 ms

Loss rate: 0.66%

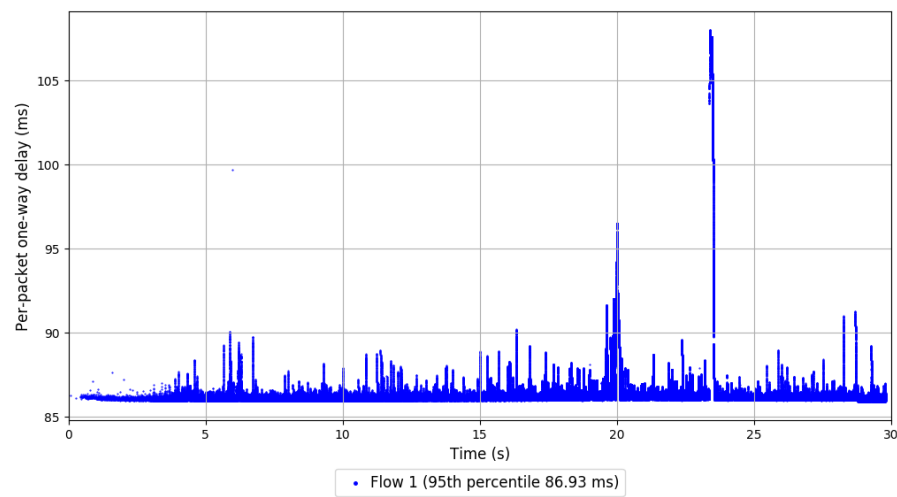
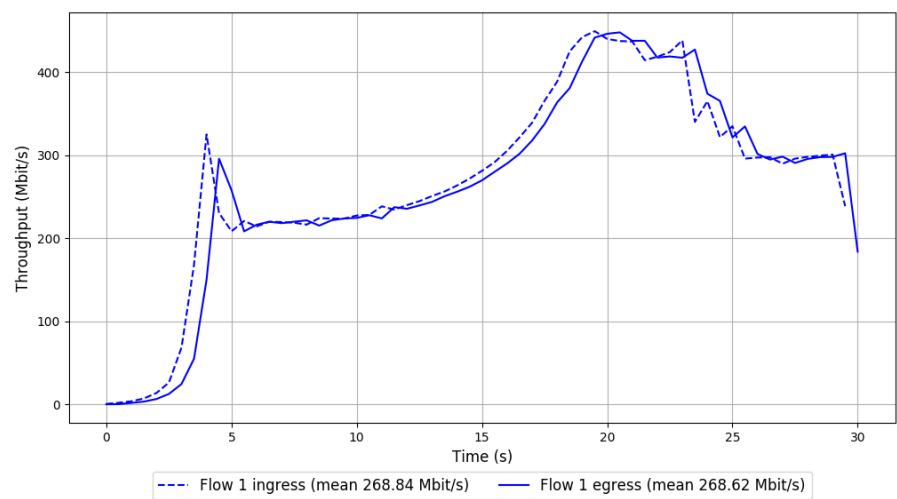
-- Flow 1:

Average throughput: 268.62 Mbit/s

95th percentile per-packet one-way delay: 86.929 ms

Loss rate: 0.66%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-05-30 22:03:20

End at: 2018-05-30 22:03:50

Local clock offset: -0.479 ms

Remote clock offset: 0.32 ms

Below is generated by plot.py at 2018-05-30 23:34:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 302.49 Mbit/s

95th percentile per-packet one-way delay: 88.647 ms

Loss rate: 0.75%

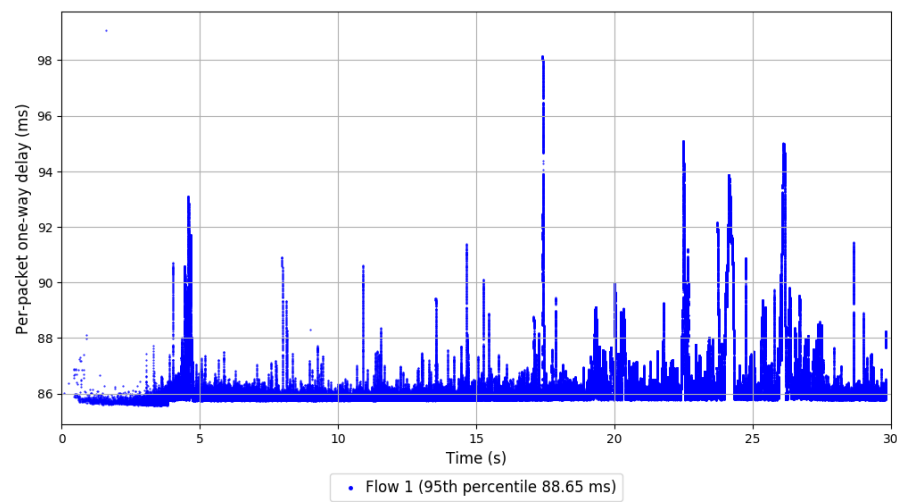
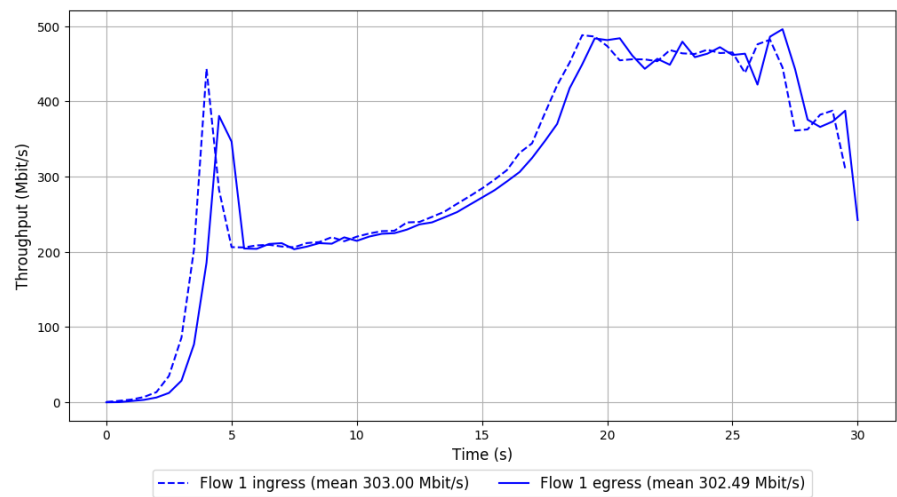
-- Flow 1:

Average throughput: 302.49 Mbit/s

95th percentile per-packet one-way delay: 88.647 ms

Loss rate: 0.75%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-05-30 19:04:48

End at: 2018-05-30 19:05:18

Local clock offset: 4.728 ms

Remote clock offset: 0.093 ms

Below is generated by plot.py at 2018-05-30 23:34:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.55 Mbit/s

95th percentile per-packet one-way delay: 86.725 ms

Loss rate: 0.84%

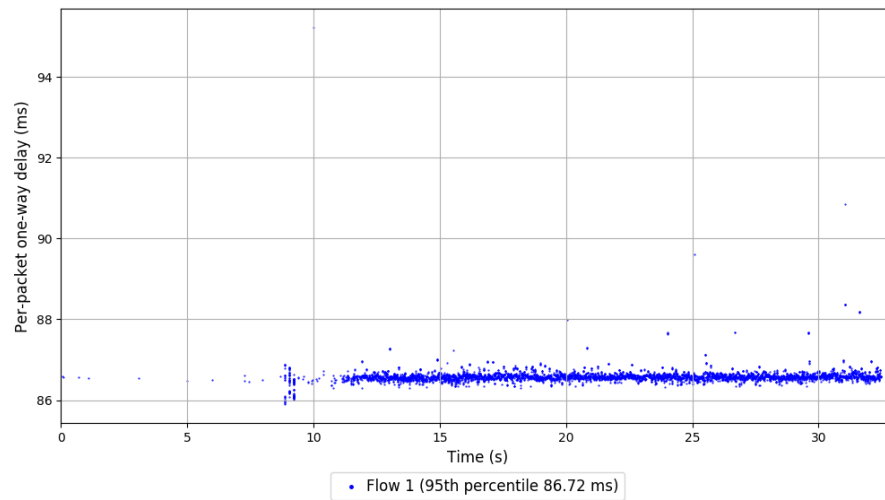
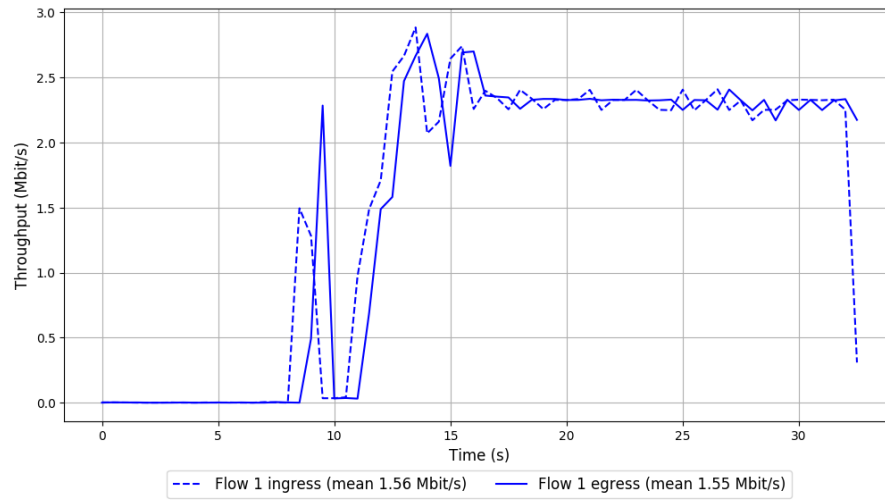
-- Flow 1:

Average throughput: 1.55 Mbit/s

95th percentile per-packet one-way delay: 86.725 ms

Loss rate: 0.84%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-05-30 19:24:52

End at: 2018-05-30 19:25:22

Local clock offset: 5.705 ms

Remote clock offset: 0.078 ms

Below is generated by plot.py at 2018-05-30 23:34:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.89 Mbit/s

95th percentile per-packet one-way delay: 87.014 ms

Loss rate: 0.62%

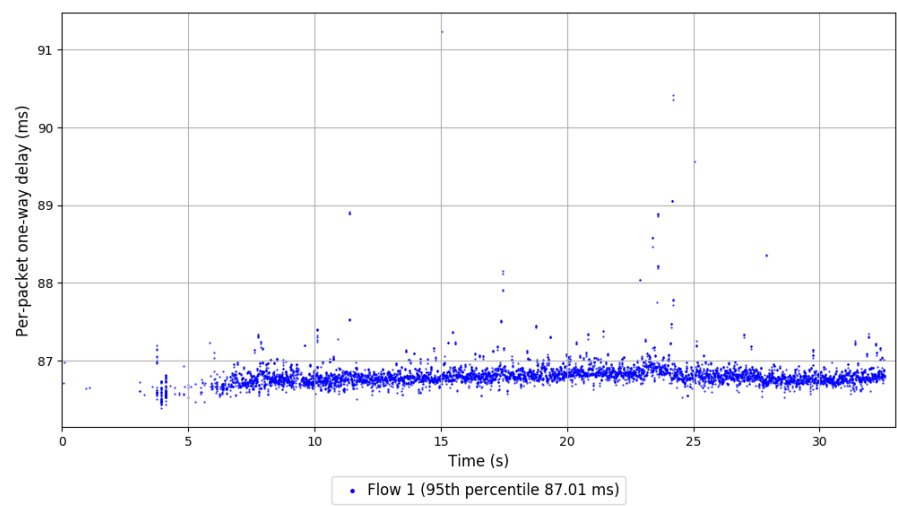
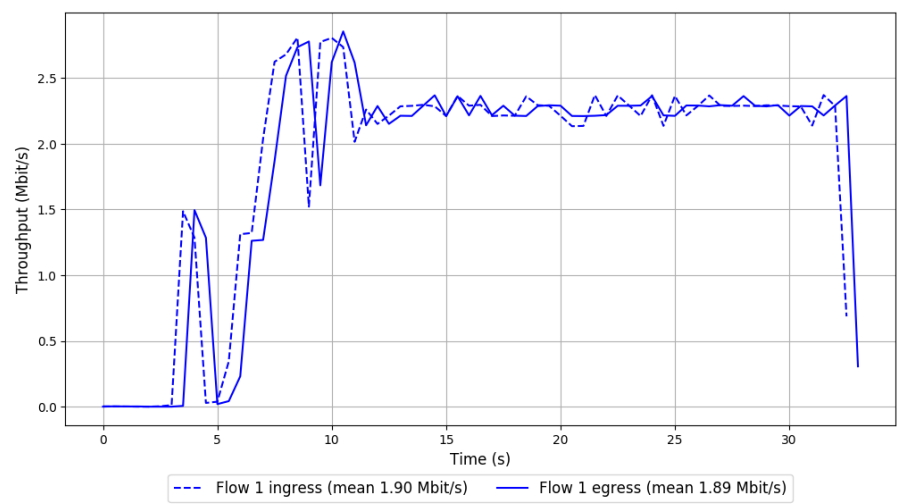
-- Flow 1:

Average throughput: 1.89 Mbit/s

95th percentile per-packet one-way delay: 87.014 ms

Loss rate: 0.62%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-05-30 19:45:19

End at: 2018-05-30 19:45:49

Local clock offset: 2.209 ms

Remote clock offset: 0.148 ms

Below is generated by plot.py at 2018-05-30 23:34:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 86.640 ms

Loss rate: 0.68%

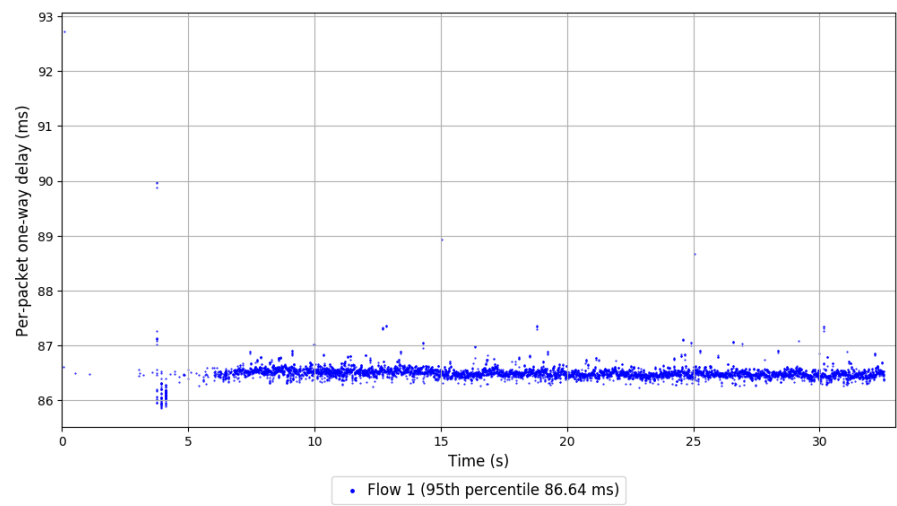
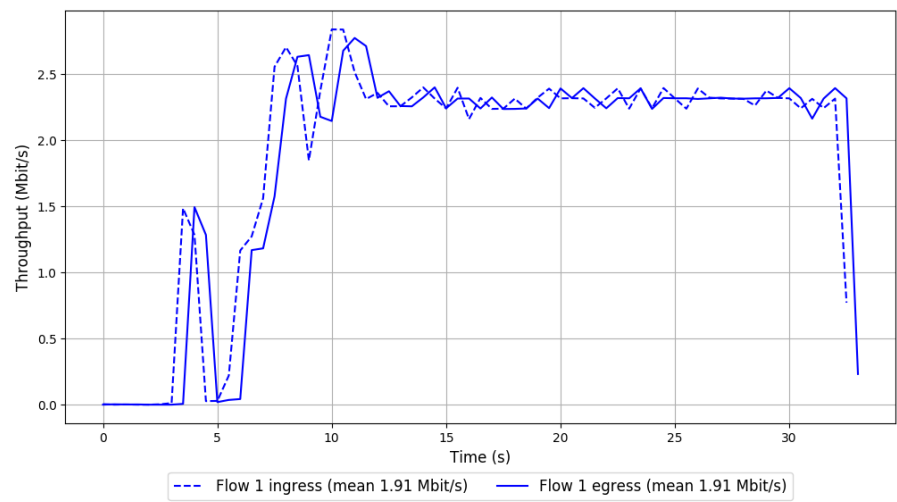
-- Flow 1:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 86.640 ms

Loss rate: 0.68%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-05-30 20:05:52

End at: 2018-05-30 20:06:22

Local clock offset: 1.138 ms

Remote clock offset: 0.116 ms

Below is generated by plot.py at 2018-05-30 23:34:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 86.278 ms

Loss rate: 0.72%

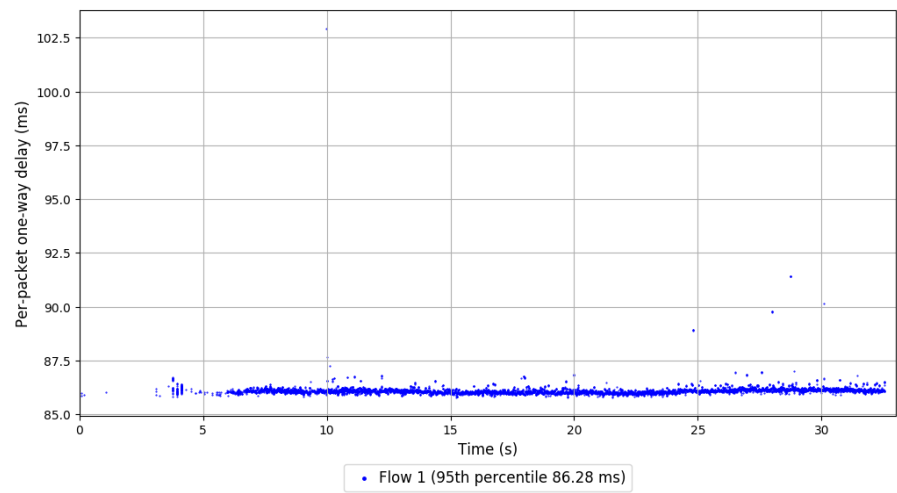
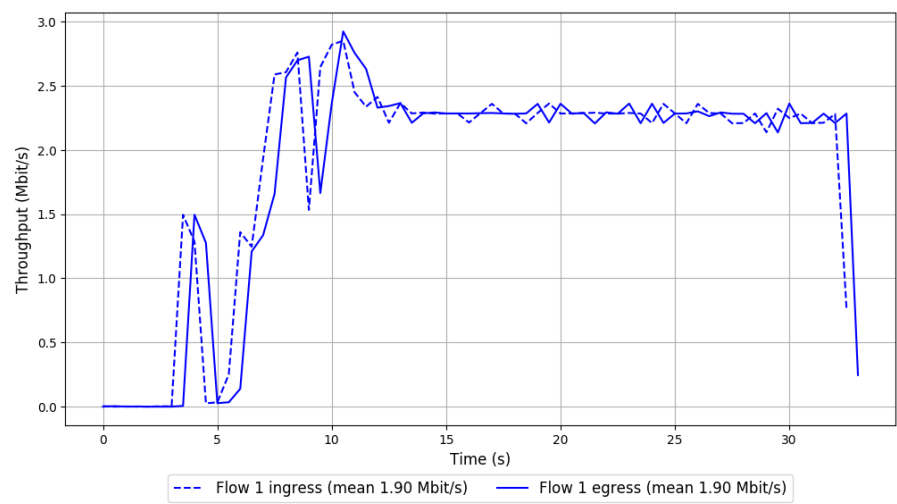
-- Flow 1:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 86.278 ms

Loss rate: 0.72%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-05-30 20:26:23

End at: 2018-05-30 20:26:53

Local clock offset: 1.241 ms

Remote clock offset: 0.215 ms

Below is generated by plot.py at 2018-05-30 23:34:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 86.276 ms

Loss rate: 0.61%

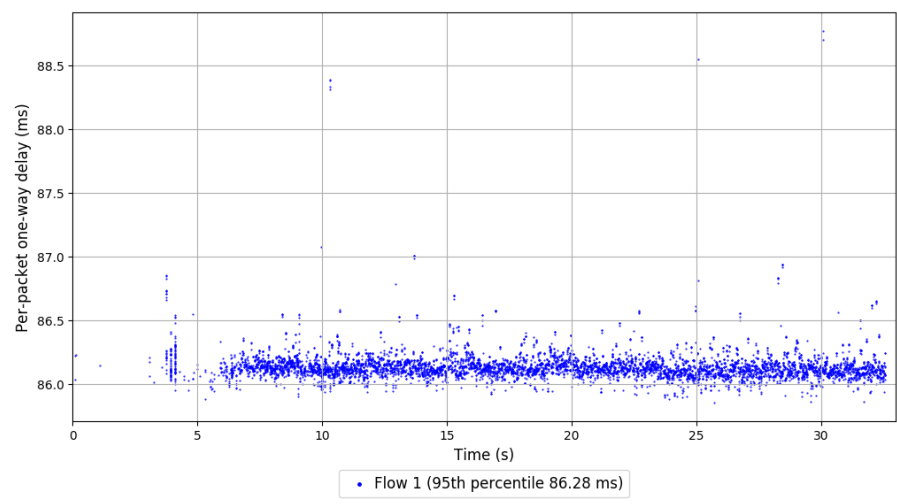
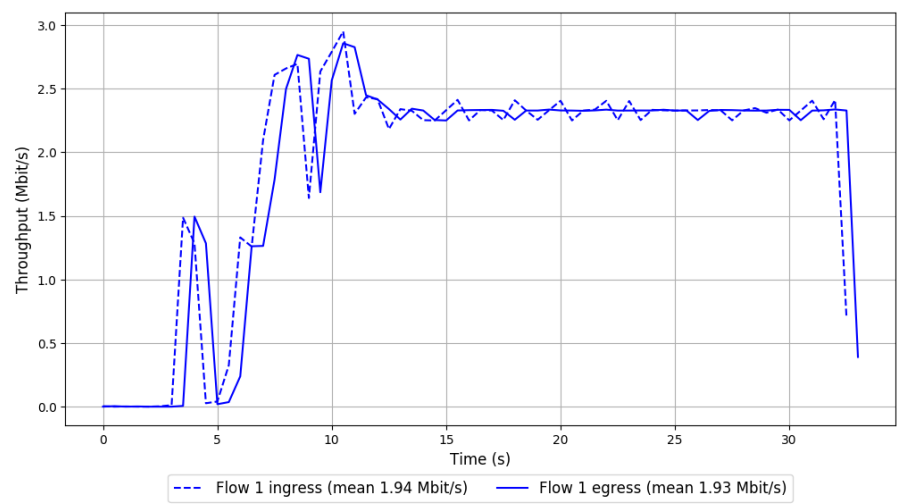
-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 86.276 ms

Loss rate: 0.61%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-05-30 20:46:58

End at: 2018-05-30 20:47:28

Local clock offset: 0.686 ms

Remote clock offset: 0.21 ms

Below is generated by plot.py at 2018-05-30 23:34:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 86.627 ms

Loss rate: 0.89%

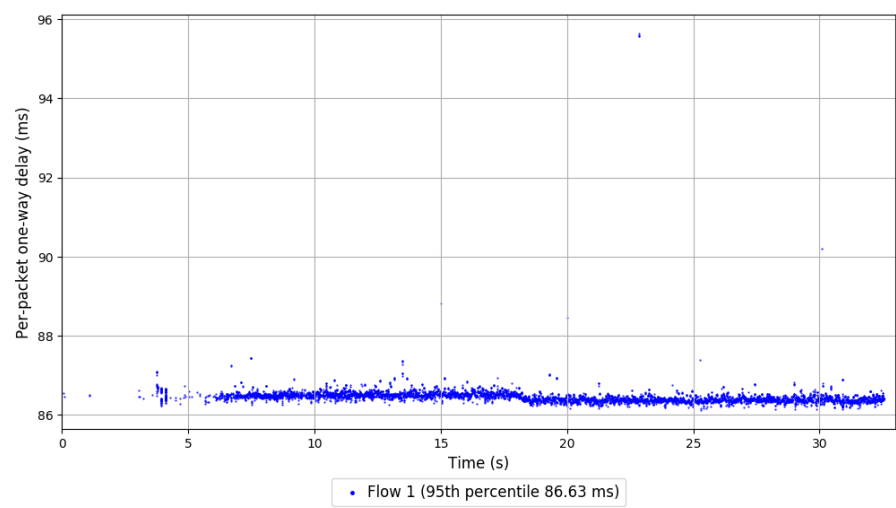
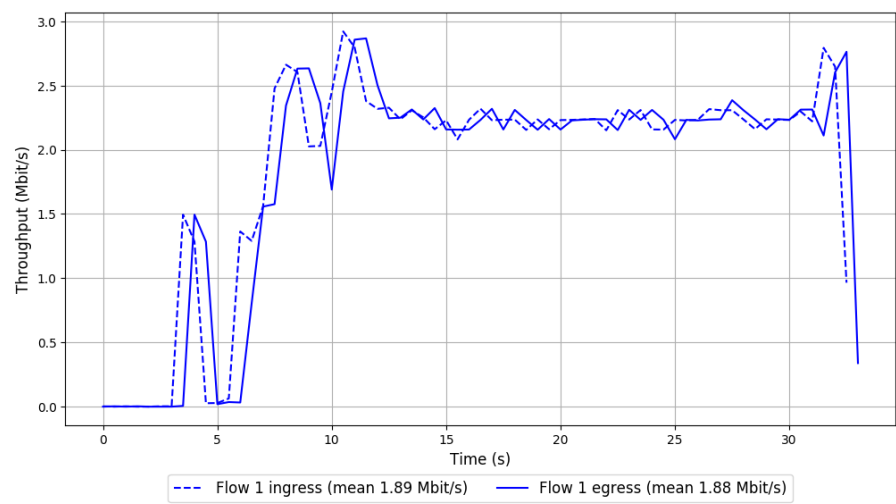
-- Flow 1:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 86.627 ms

Loss rate: 0.89%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-05-30 21:07:14

End at: 2018-05-30 21:07:45

Local clock offset: 0.529 ms

Remote clock offset: 0.185 ms

Below is generated by plot.py at 2018-05-30 23:34:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 86.823 ms

Loss rate: 1.02%

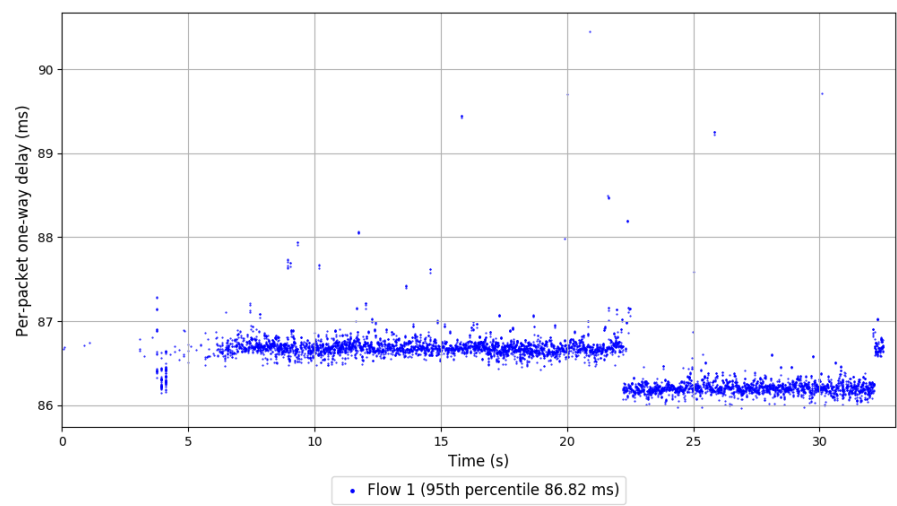
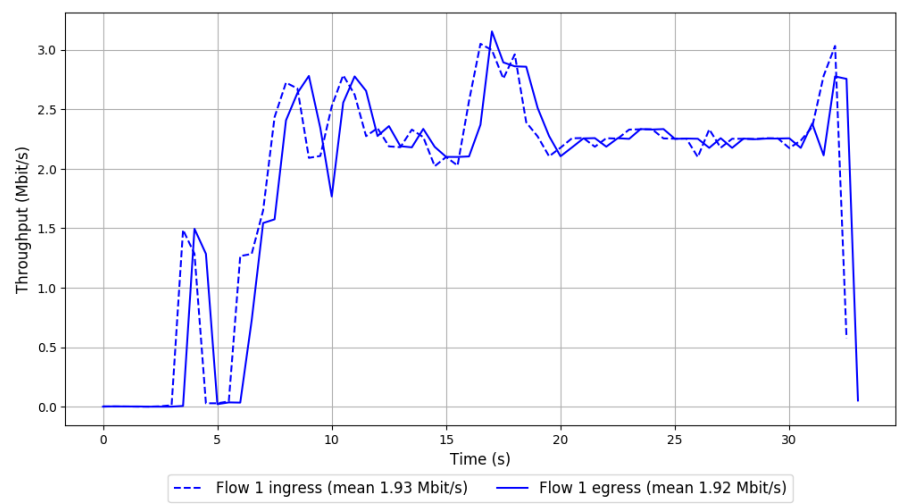
-- Flow 1:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 86.823 ms

Loss rate: 1.02%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-05-30 21:27:42

End at: 2018-05-30 21:28:12

Local clock offset: 0.759 ms

Remote clock offset: 0.26 ms

Below is generated by plot.py at 2018-05-30 23:34:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 86.418 ms

Loss rate: 0.62%

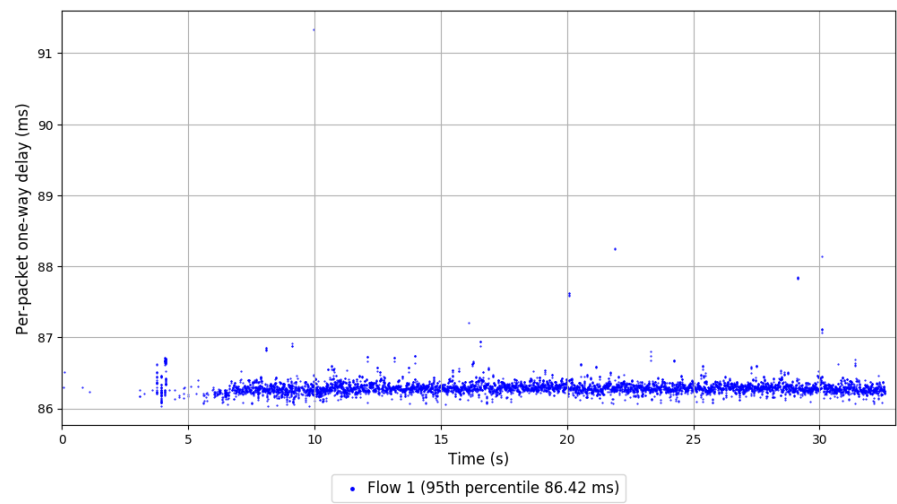
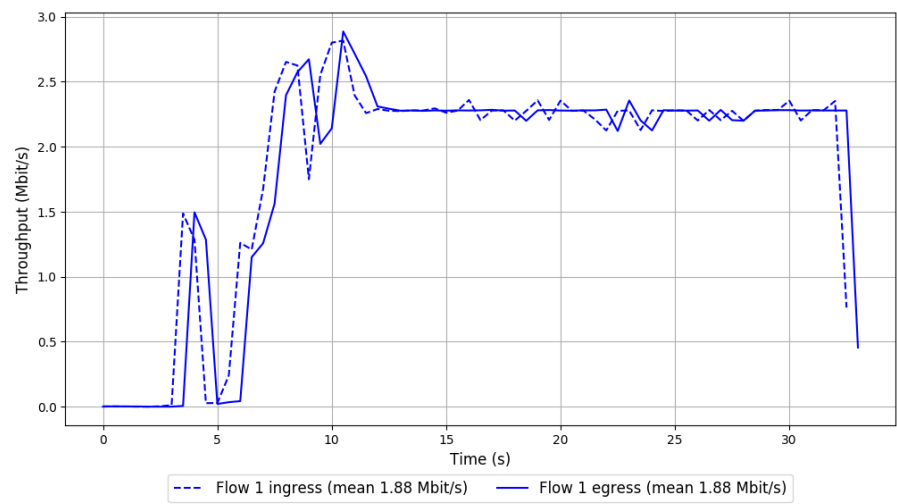
-- Flow 1:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 86.418 ms

Loss rate: 0.62%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-05-30 21:48:12

End at: 2018-05-30 21:48:42

Local clock offset: 0.239 ms

Remote clock offset: 0.231 ms

Below is generated by plot.py at 2018-05-30 23:34:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.89 Mbit/s

95th percentile per-packet one-way delay: 86.836 ms

Loss rate: 0.68%

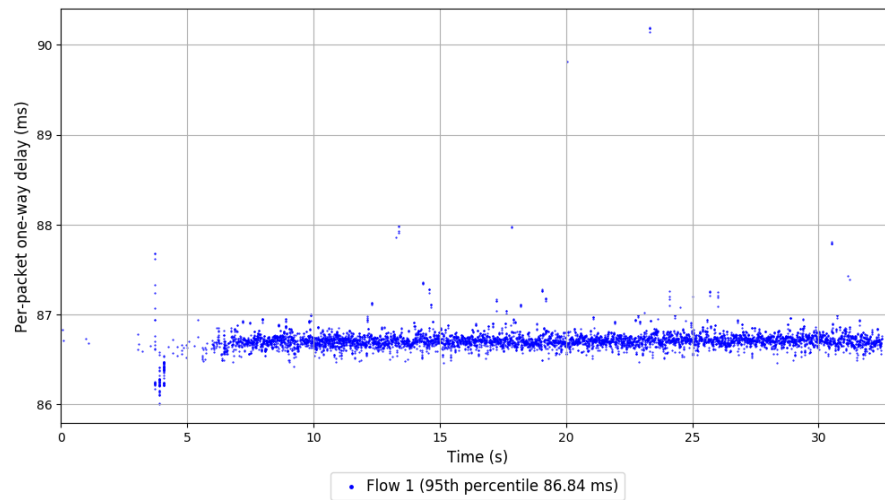
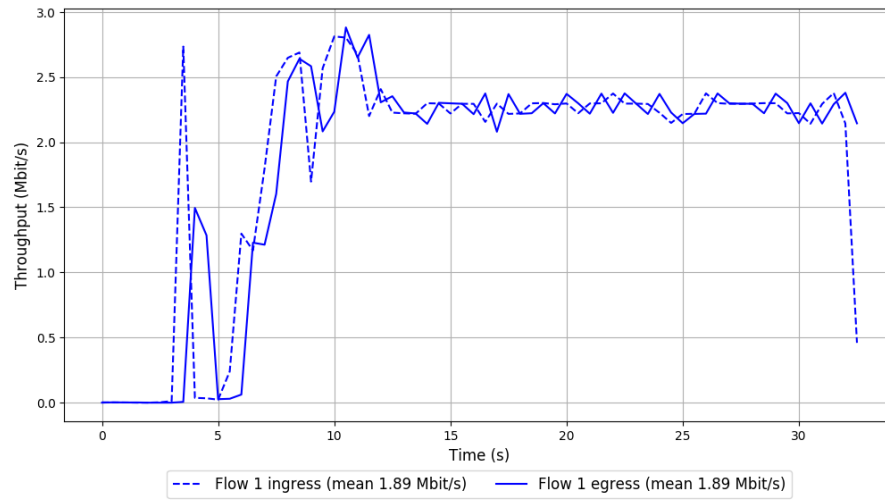
-- Flow 1:

Average throughput: 1.89 Mbit/s

95th percentile per-packet one-way delay: 86.836 ms

Loss rate: 0.68%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-30 22:08:40

End at: 2018-05-30 22:09:10

Local clock offset: -0.422 ms

Remote clock offset: 0.272 ms

Below is generated by plot.py at 2018-05-30 23:34:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 86.243 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 86.243 ms

Loss rate: 0.62%

Run 10: Report of WebRTC media — Data Link

