

Pantheon Report

Generated at 2018-06-30 15:52:20 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

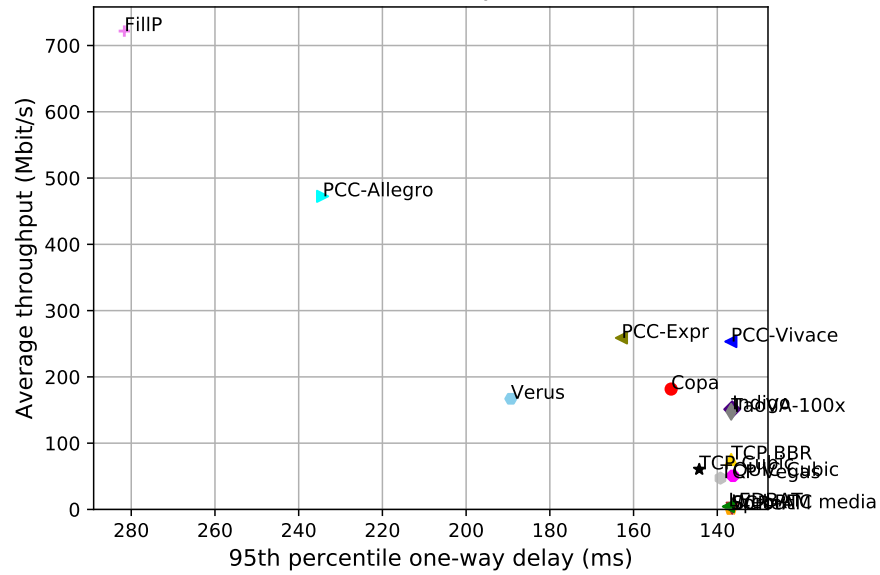
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

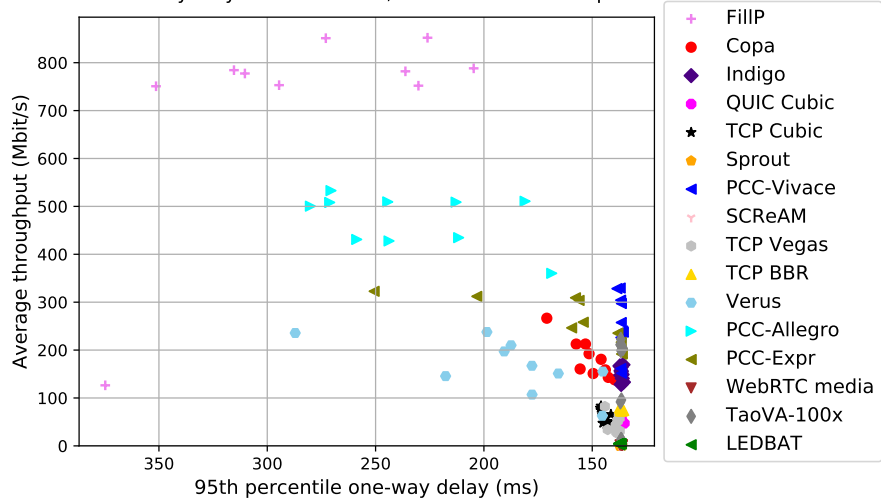
Git summary:

```
branch: master @ 715dc5f09d172e419699f6f17f1cb4c45064f212
third_party/llp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/llp-sheep @ 30060ab034deb3424347f5cc3db86198eac35d2a
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webRTC @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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



test from GCE Sydney to GCE London, 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	75.41	136.68	0.00
Copa	10	181.61	151.03	0.00
TCP Cubic	10	60.42	144.31	0.00
FillP	10	721.77	281.65	1.89
FillP-Sheep	0	N/A	N/A	N/A
Indigo	10	151.13	136.44	0.00
LEDBAT	10	4.39	137.36	0.00
PCC-Allegro	10	472.44	234.28	1.00
PCC-Expr	10	258.78	162.90	0.09
QUIC Cubic	6	50.67	136.26	0.00
SCReAM	10	0.22	136.43	0.00
Sprout	10	0.17	136.76	0.00
TaoVA-100x	10	147.30	136.68	0.00
TCP Vegas	10	47.27	139.24	0.00
Verus	10	166.96	189.32	0.22
PCC-Vivace	10	253.31	136.76	0.00
WebRTC media	10	1.86	136.45	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-06-30 11:09:28

End at: 2018-06-30 11:09:58

Local clock offset: 0.245 ms

Remote clock offset: 0.061 ms

Below is generated by plot.py at 2018-06-30 14:41:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.35 Mbit/s

95th percentile per-packet one-way delay: 136.947 ms

Loss rate: 0.04%

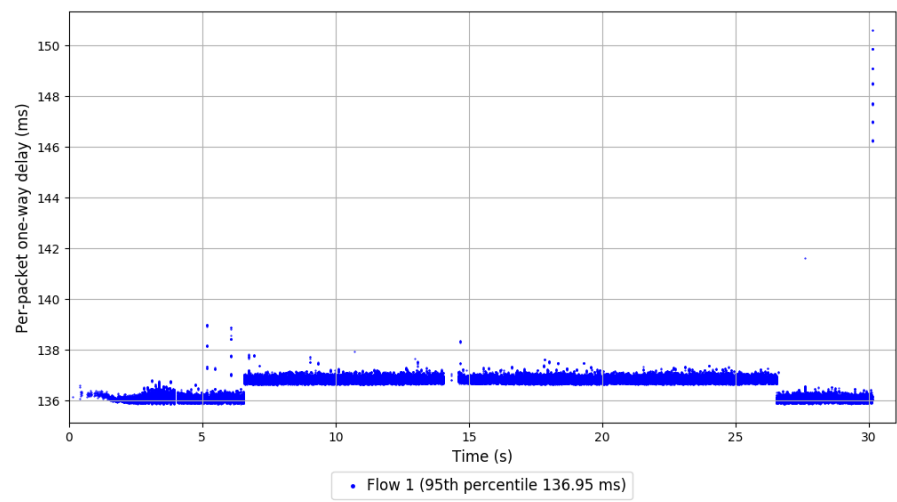
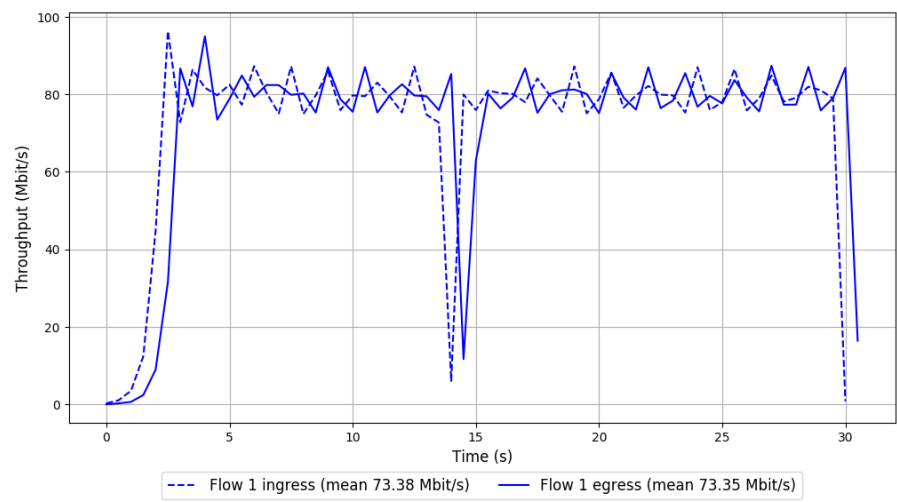
-- Flow 1:

Average throughput: 73.35 Mbit/s

95th percentile per-packet one-way delay: 136.947 ms

Loss rate: 0.04%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-06-30 11:31:58

End at: 2018-06-30 11:32:28

Local clock offset: 0.164 ms

Remote clock offset: -0.288 ms

Below is generated by plot.py at 2018-06-30 14:41:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.00 Mbit/s

95th percentile per-packet one-way delay: 136.808 ms

Loss rate: 0.00%

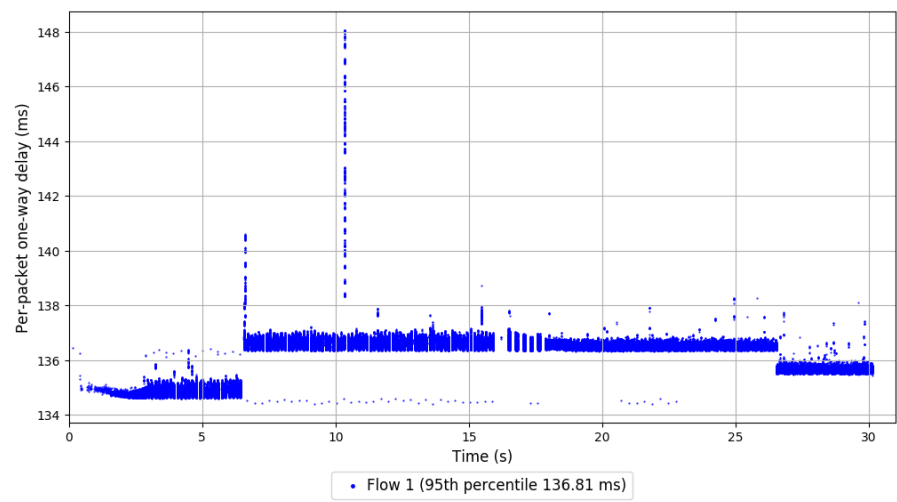
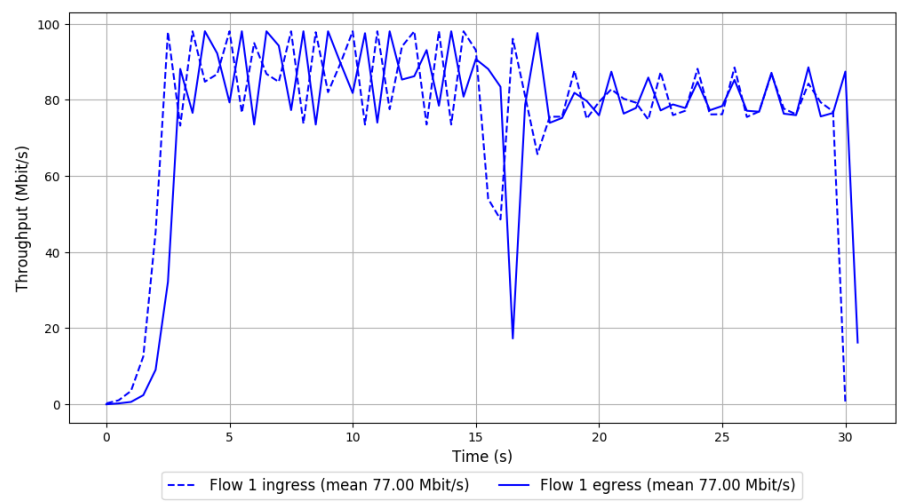
-- Flow 1:

Average throughput: 77.00 Mbit/s

95th percentile per-packet one-way delay: 136.808 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link

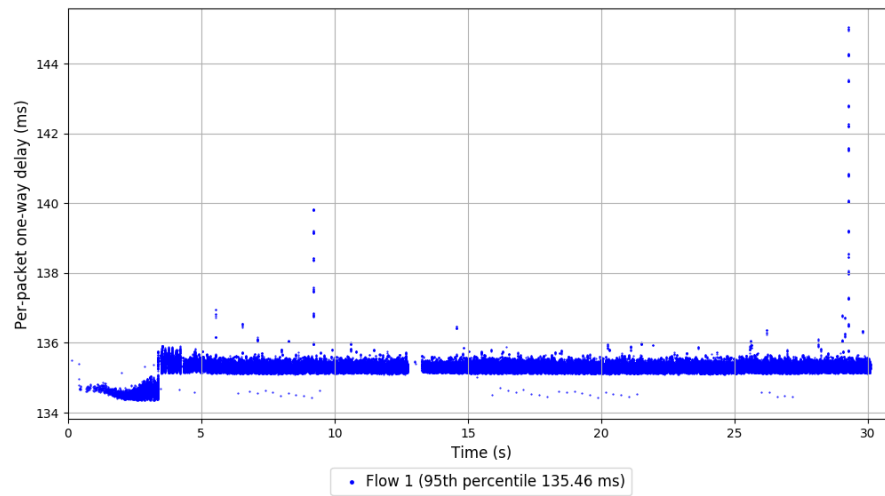
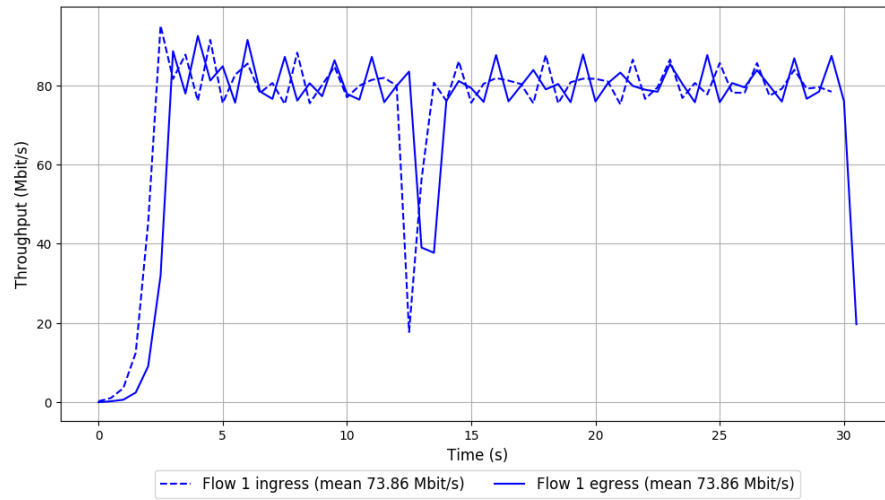


Run 3: Statistics of TCP BBR

Start at: 2018-06-30 11:54:31
End at: 2018-06-30 11:55:01
Local clock offset: 0.14 ms
Remote clock offset: -0.322 ms

Below is generated by plot.py at 2018-06-30 14:41:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 73.86 Mbit/s
95th percentile per-packet one-way delay: 135.461 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 73.86 Mbit/s
95th percentile per-packet one-way delay: 135.461 ms
Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-06-30 12:17:24

End at: 2018-06-30 12:17:54

Local clock offset: 0.023 ms

Remote clock offset: 0.088 ms

Below is generated by plot.py at 2018-06-30 14:41:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.74 Mbit/s

95th percentile per-packet one-way delay: 136.119 ms

Loss rate: 0.00%

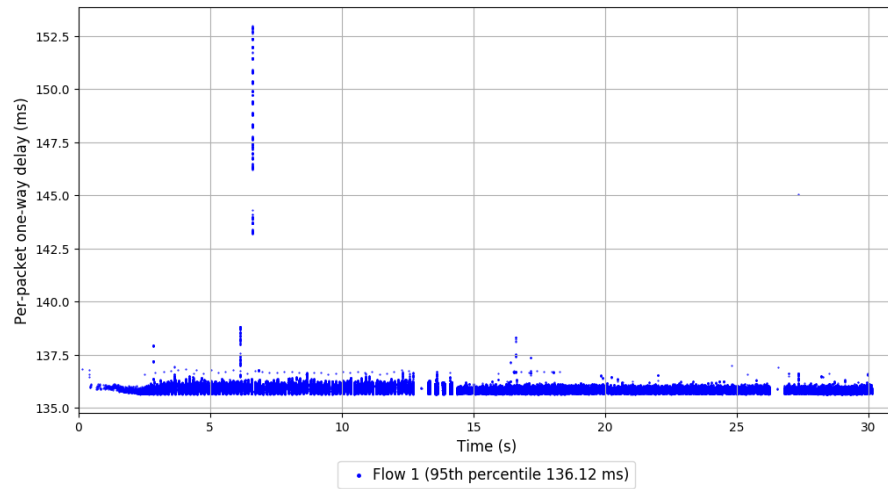
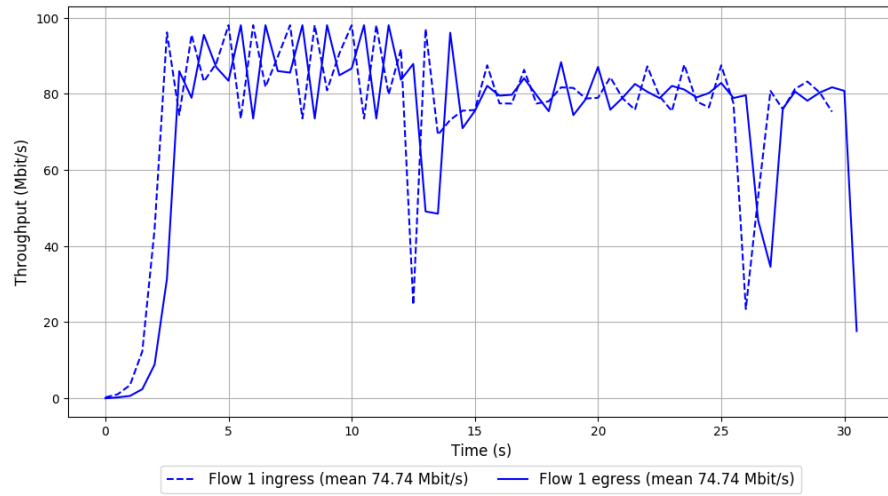
-- Flow 1:

Average throughput: 74.74 Mbit/s

95th percentile per-packet one-way delay: 136.119 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-06-30 12:39:43

End at: 2018-06-30 12:40:13

Local clock offset: -0.026 ms

Remote clock offset: 0.015 ms

Below is generated by plot.py at 2018-06-30 14:41:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.87 Mbit/s

95th percentile per-packet one-way delay: 137.038 ms

Loss rate: 0.00%

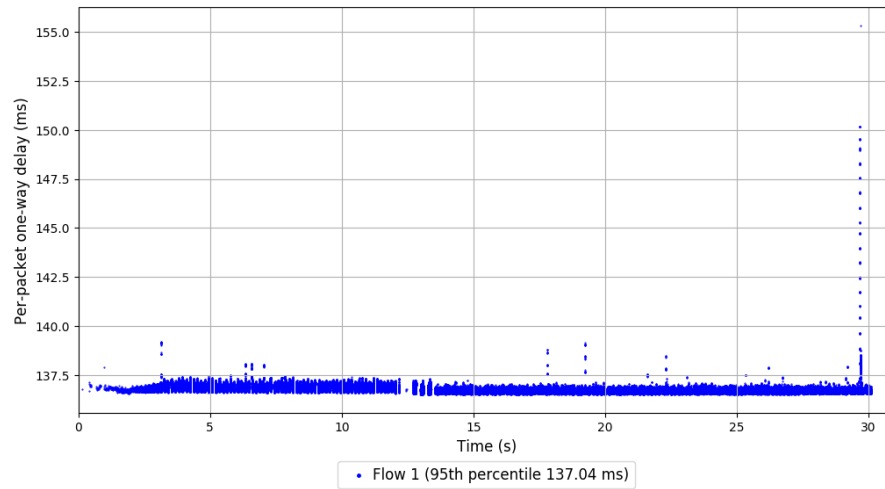
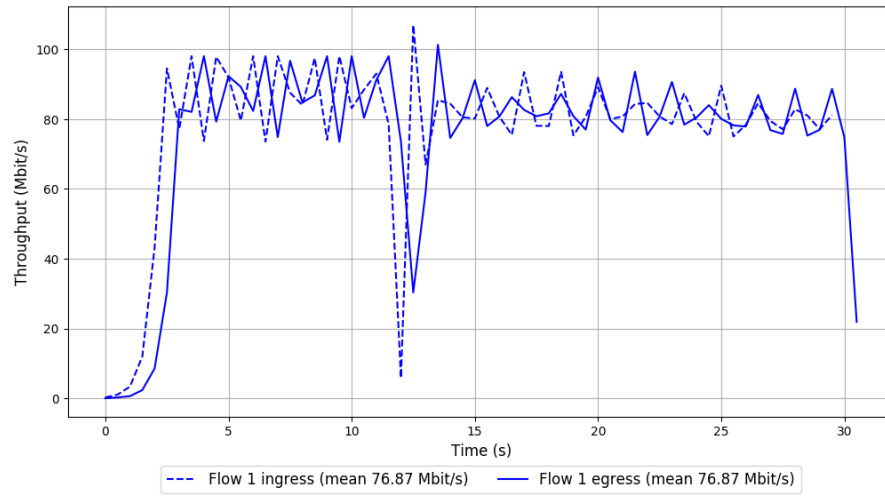
-- Flow 1:

Average throughput: 76.87 Mbit/s

95th percentile per-packet one-way delay: 137.038 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-06-30 13:02:14

End at: 2018-06-30 13:02:44

Local clock offset: 0.146 ms

Remote clock offset: -0.013 ms

Below is generated by plot.py at 2018-06-30 14:41:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.03 Mbit/s

95th percentile per-packet one-way delay: 136.713 ms

Loss rate: 0.00%

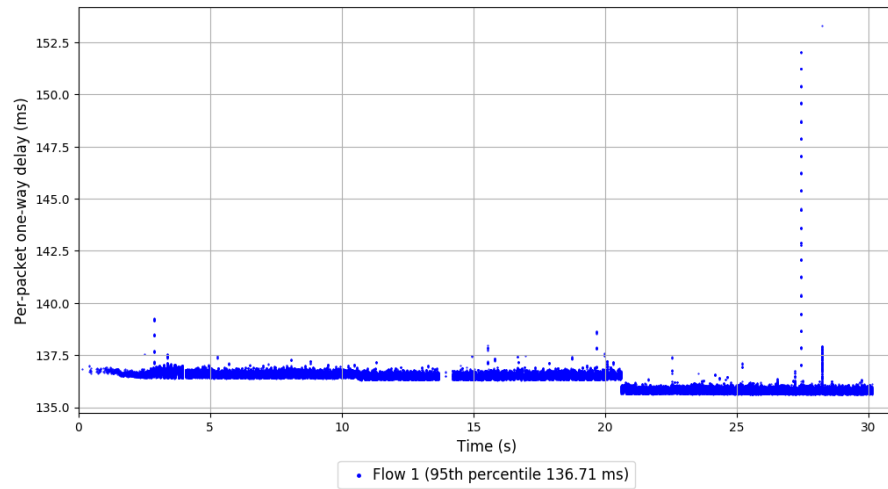
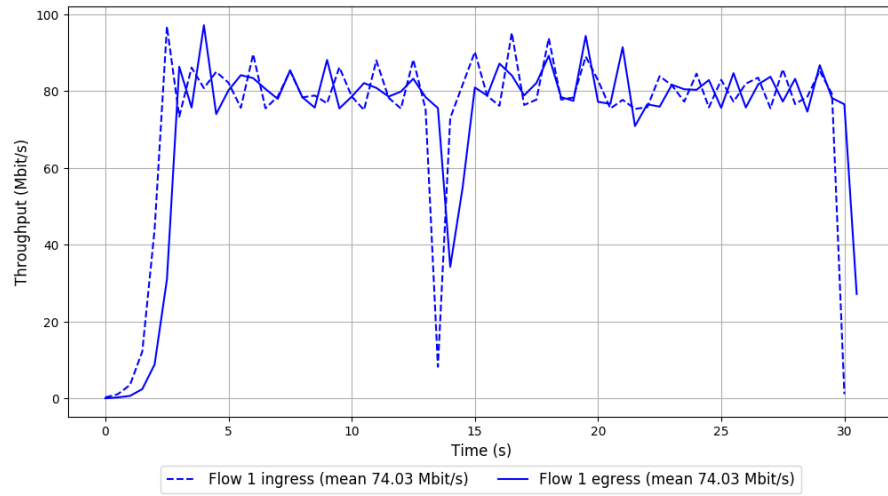
-- Flow 1:

Average throughput: 74.03 Mbit/s

95th percentile per-packet one-way delay: 136.713 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-06-30 13:24:32

End at: 2018-06-30 13:25:02

Local clock offset: -0.314 ms

Remote clock offset: 0.081 ms

Below is generated by plot.py at 2018-06-30 14:41:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.48 Mbit/s

95th percentile per-packet one-way delay: 137.111 ms

Loss rate: 0.00%

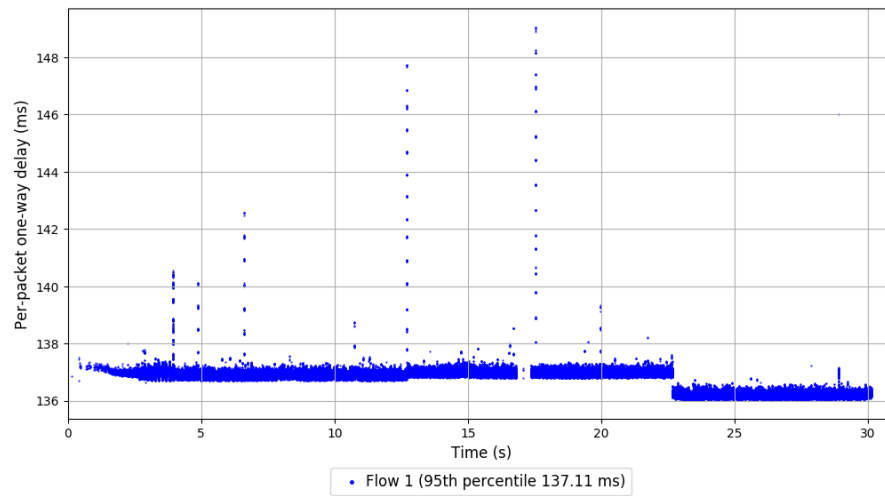
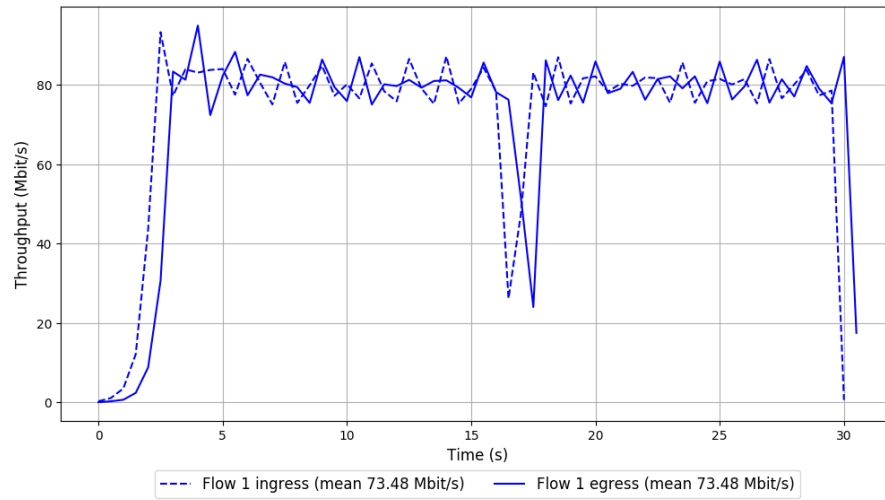
-- Flow 1:

Average throughput: 73.48 Mbit/s

95th percentile per-packet one-way delay: 137.111 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-06-30 13:46:36

End at: 2018-06-30 13:47:06

Local clock offset: -0.232 ms

Remote clock offset: 0.538 ms

Below is generated by plot.py at 2018-06-30 14:41:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.10 Mbit/s

95th percentile per-packet one-way delay: 137.429 ms

Loss rate: 0.00%

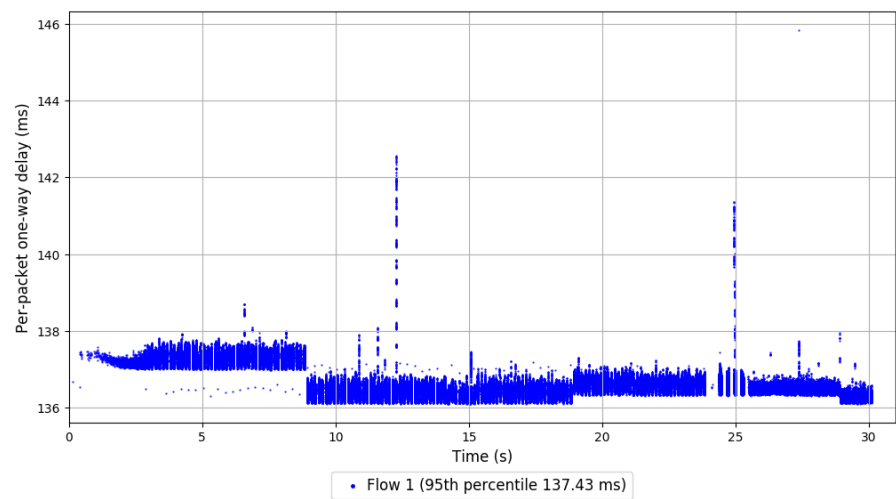
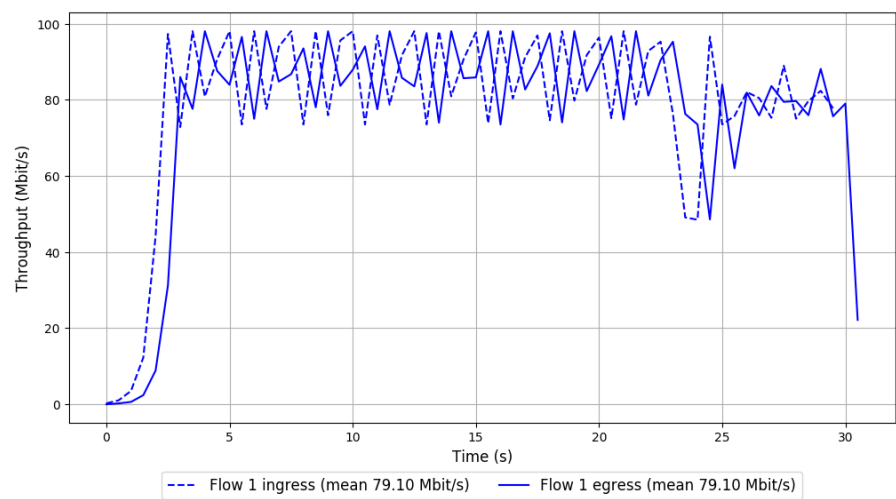
-- Flow 1:

Average throughput: 79.10 Mbit/s

95th percentile per-packet one-way delay: 137.429 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link

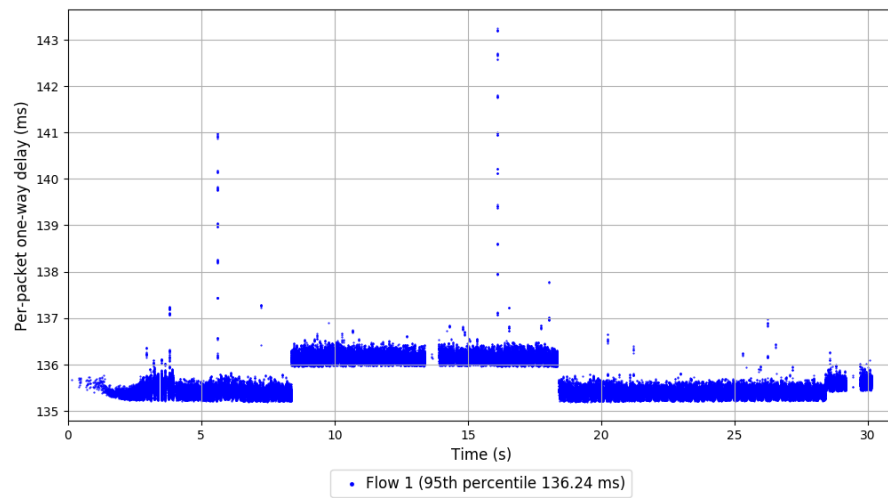
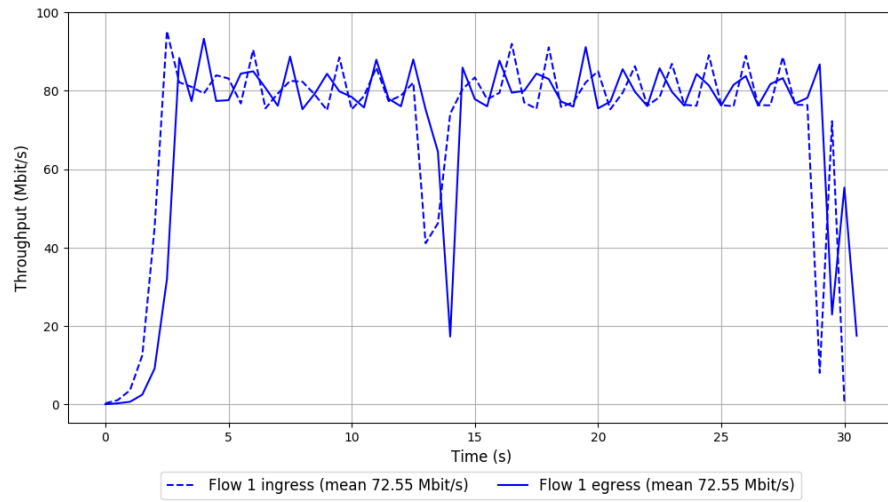


Run 9: Statistics of TCP BBR

Start at: 2018-06-30 14:09:06
End at: 2018-06-30 14:09:36
Local clock offset: -0.137 ms
Remote clock offset: -0.316 ms

Below is generated by plot.py at 2018-06-30 14:42:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 72.55 Mbit/s
95th percentile per-packet one-way delay: 136.242 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 72.55 Mbit/s
95th percentile per-packet one-way delay: 136.242 ms
Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-06-30 14:31:43

End at: 2018-06-30 14:32:13

Local clock offset: -0.307 ms

Remote clock offset: 0.11 ms

Below is generated by plot.py at 2018-06-30 14:42:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.12 Mbit/s

95th percentile per-packet one-way delay: 136.949 ms

Loss rate: 0.00%

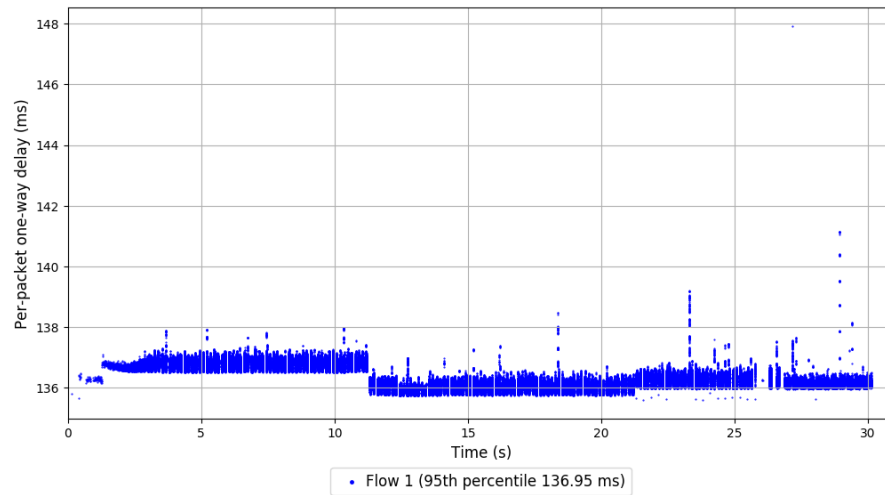
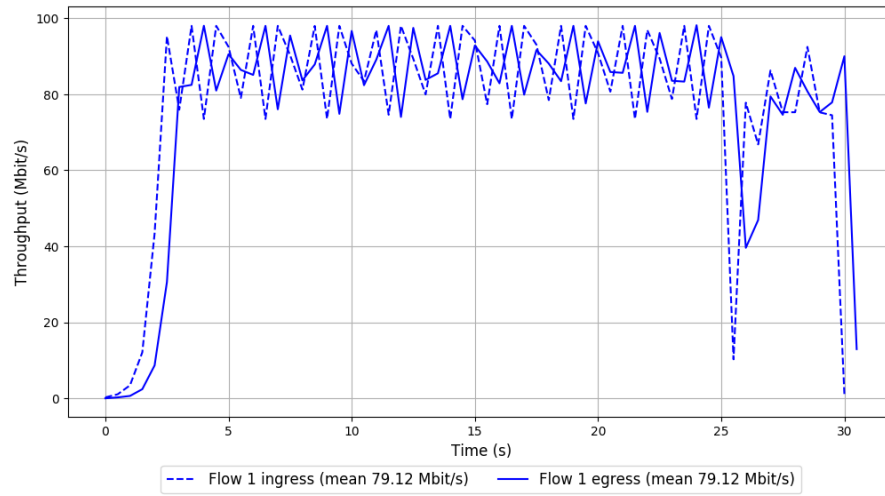
-- Flow 1:

Average throughput: 79.12 Mbit/s

95th percentile per-packet one-way delay: 136.949 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link

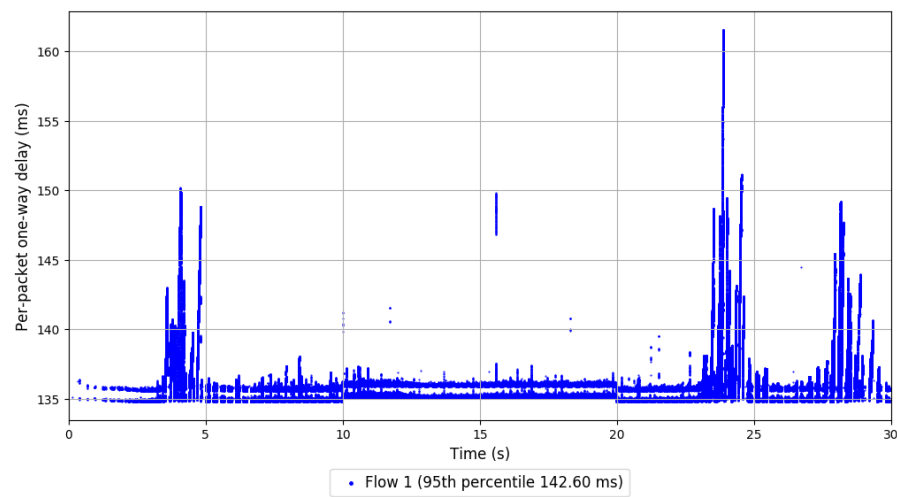
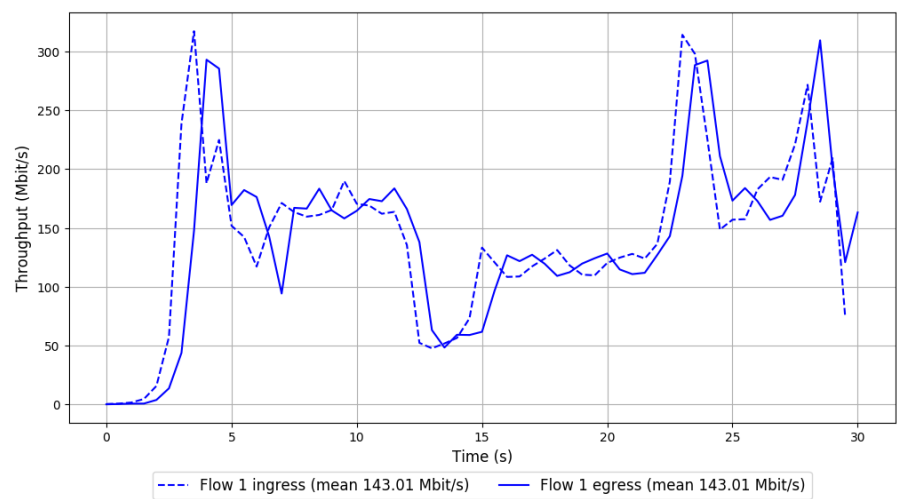


Run 1: Statistics of Copa

Start at: 2018-06-30 11:01:35
End at: 2018-06-30 11:02:05
Local clock offset: 0.483 ms
Remote clock offset: -0.338 ms

Below is generated by plot.py at 2018-06-30 14:45:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 143.01 Mbit/s
95th percentile per-packet one-way delay: 142.603 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 143.01 Mbit/s
95th percentile per-packet one-way delay: 142.603 ms
Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-06-30 11:23:57

End at: 2018-06-30 11:24:27

Local clock offset: 0.405 ms

Remote clock offset: 0.112 ms

Below is generated by plot.py at 2018-06-30 14:45:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 137.98 Mbit/s

95th percentile per-packet one-way delay: 139.641 ms

Loss rate: 0.00%

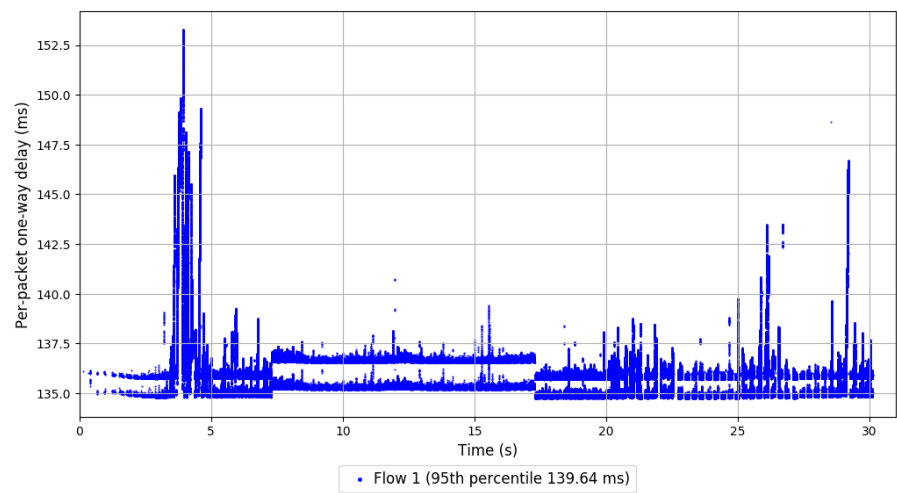
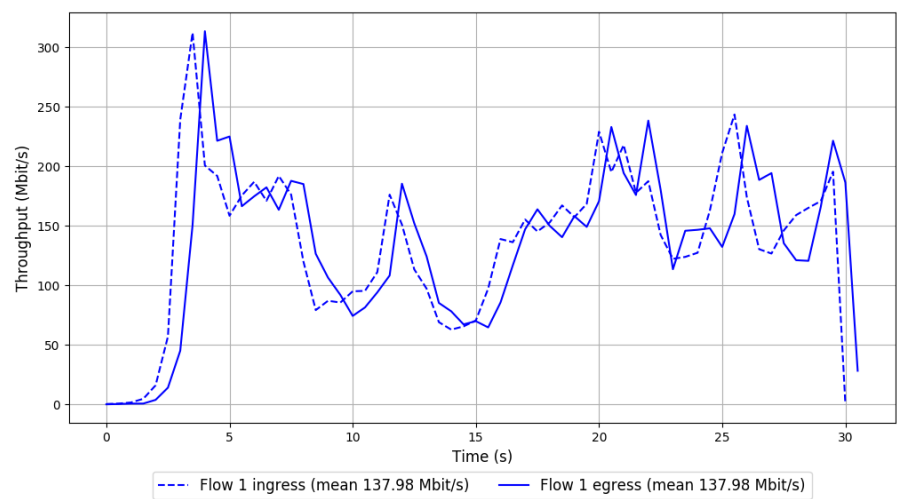
-- Flow 1:

Average throughput: 137.98 Mbit/s

95th percentile per-packet one-way delay: 139.641 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-06-30 11:46:26

End at: 2018-06-30 11:46:56

Local clock offset: 0.155 ms

Remote clock offset: 0.076 ms

Below is generated by plot.py at 2018-06-30 14:45:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.05 Mbit/s

95th percentile per-packet one-way delay: 149.582 ms

Loss rate: 0.00%

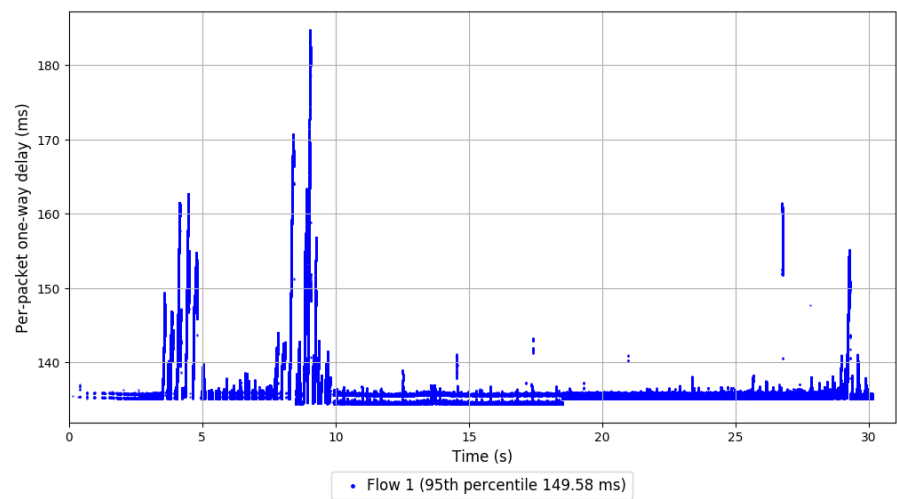
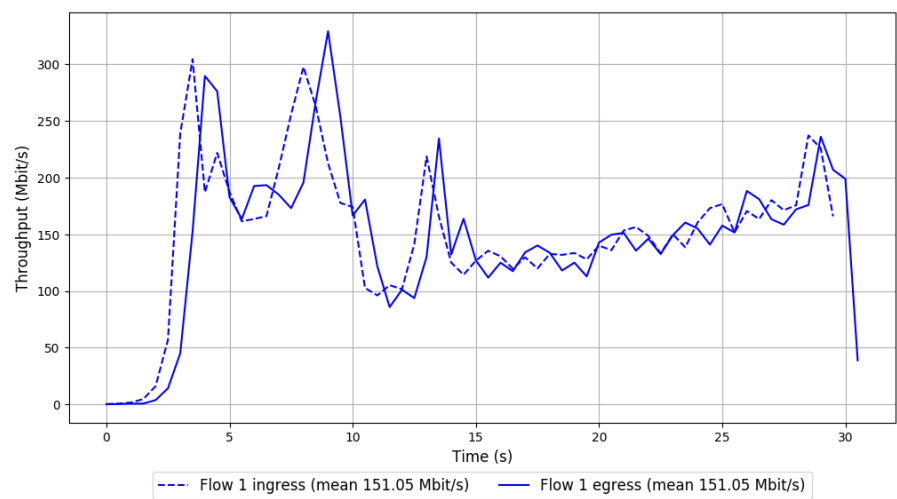
-- Flow 1:

Average throughput: 151.05 Mbit/s

95th percentile per-packet one-way delay: 149.582 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-06-30 12:09:15

End at: 2018-06-30 12:09:45

Local clock offset: 0.091 ms

Remote clock offset: 0.042 ms

Below is generated by plot.py at 2018-06-30 14:46:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.74 Mbit/s

95th percentile per-packet one-way delay: 145.915 ms

Loss rate: 0.00%

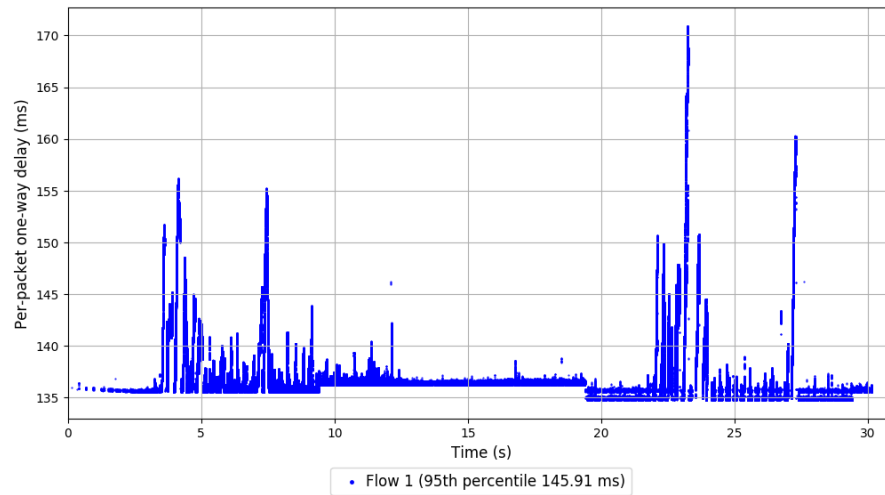
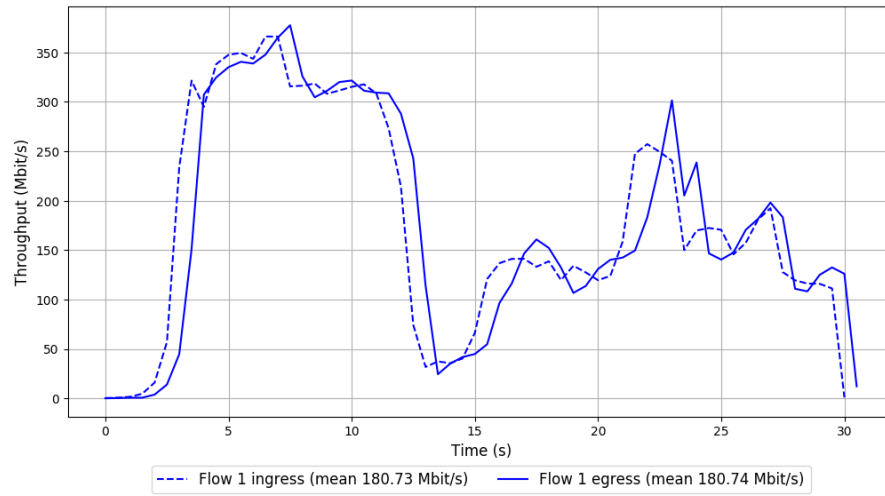
-- Flow 1:

Average throughput: 180.74 Mbit/s

95th percentile per-packet one-way delay: 145.915 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-06-30 12:31:53

End at: 2018-06-30 12:32:23

Local clock offset: 0.0 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-06-30 14:48:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.57 Mbit/s

95th percentile per-packet one-way delay: 157.402 ms

Loss rate: 0.00%

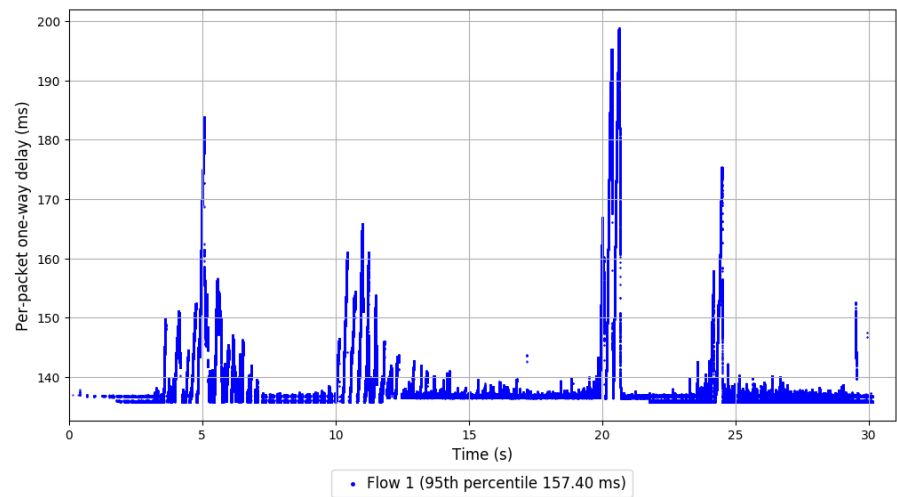
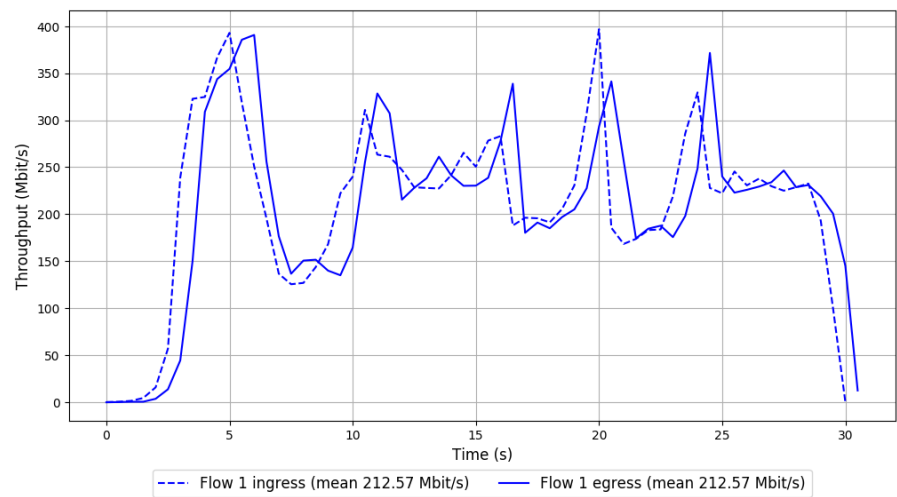
-- Flow 1:

Average throughput: 212.57 Mbit/s

95th percentile per-packet one-way delay: 157.402 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-06-30 12:54:19

End at: 2018-06-30 12:54:49

Local clock offset: 0.226 ms

Remote clock offset: 0.394 ms

Below is generated by plot.py at 2018-06-30 14:48:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.66 Mbit/s

95th percentile per-packet one-way delay: 143.948 ms

Loss rate: 0.00%

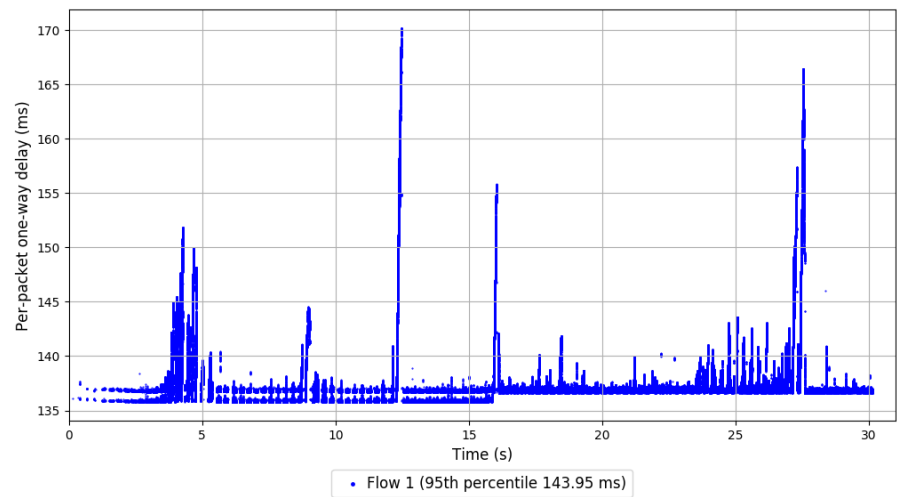
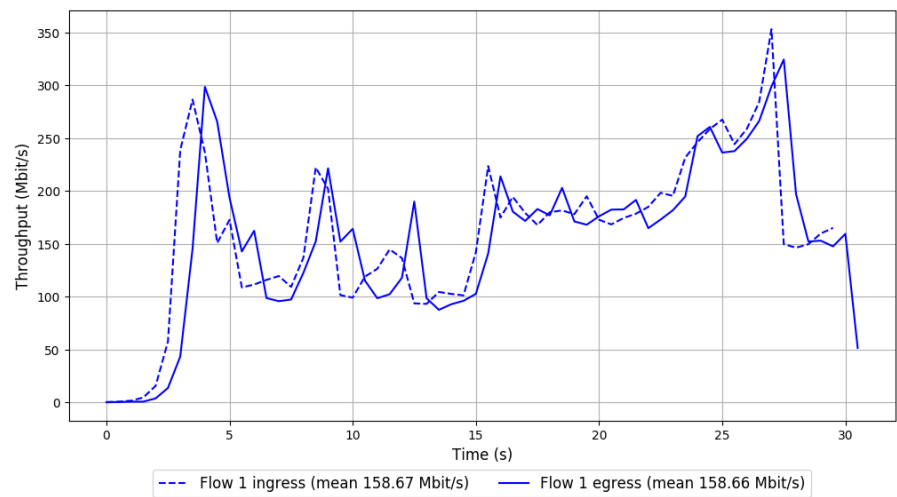
-- Flow 1:

Average throughput: 158.66 Mbit/s

95th percentile per-packet one-way delay: 143.948 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-06-30 13:16:20

End at: 2018-06-30 13:16:50

Local clock offset: 0.089 ms

Remote clock offset: 0.025 ms

Below is generated by plot.py at 2018-06-30 14:49:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.63 Mbit/s

95th percentile per-packet one-way delay: 153.127 ms

Loss rate: 0.00%

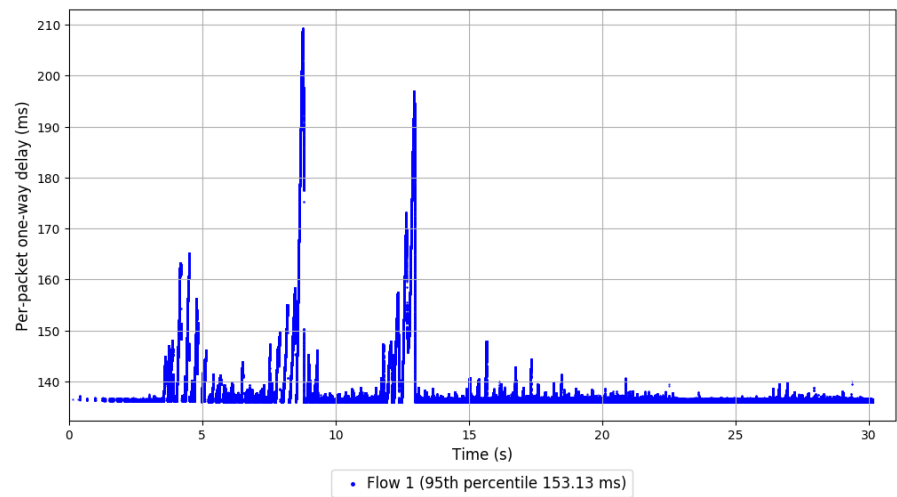
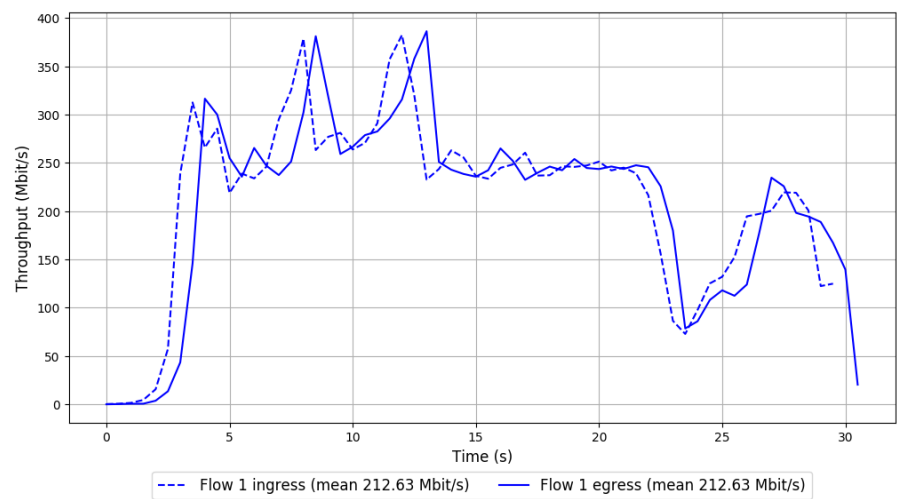
-- Flow 1:

Average throughput: 212.63 Mbit/s

95th percentile per-packet one-way delay: 153.127 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link

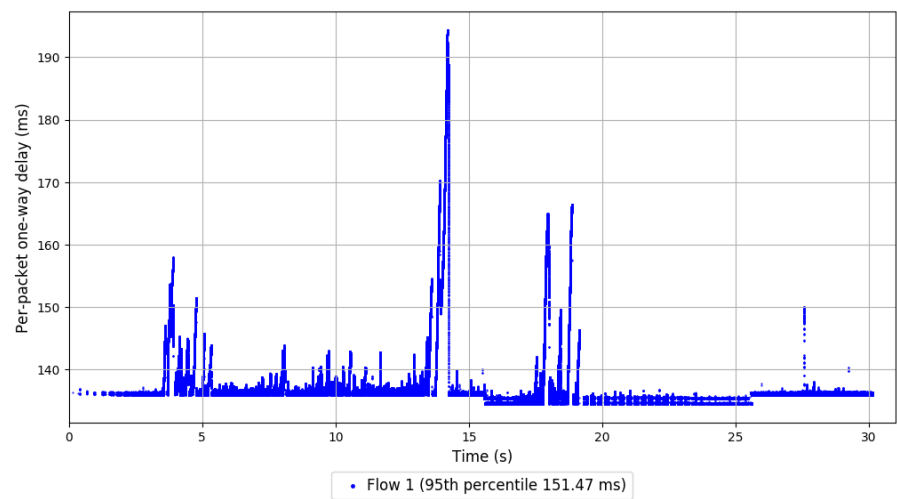
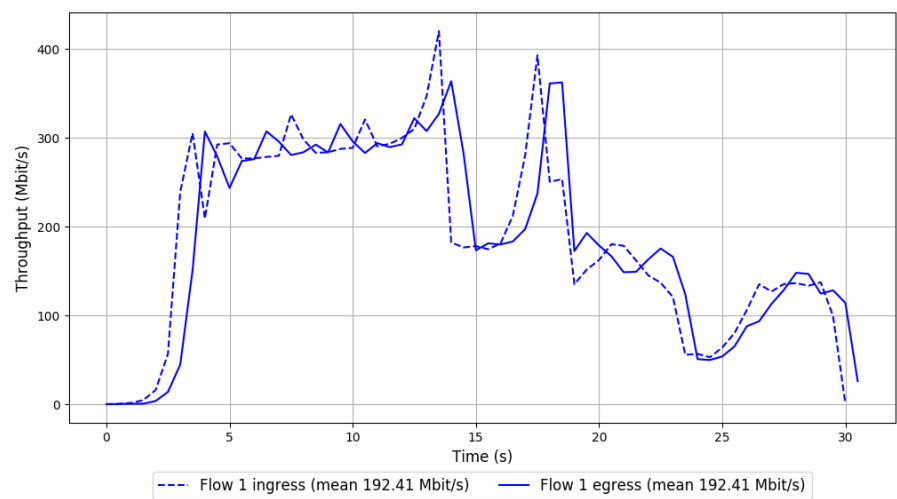


Run 8: Statistics of Copa

Start at: 2018-06-30 13:38:49
End at: 2018-06-30 13:39:19
Local clock offset: -0.211 ms
Remote clock offset: -0.234 ms

Below is generated by plot.py at 2018-06-30 14:49:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 192.41 Mbit/s
95th percentile per-packet one-way delay: 151.466 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 192.41 Mbit/s
95th percentile per-packet one-way delay: 151.466 ms
Loss rate: 0.00%

Run 8: Report of Copa — Data Link

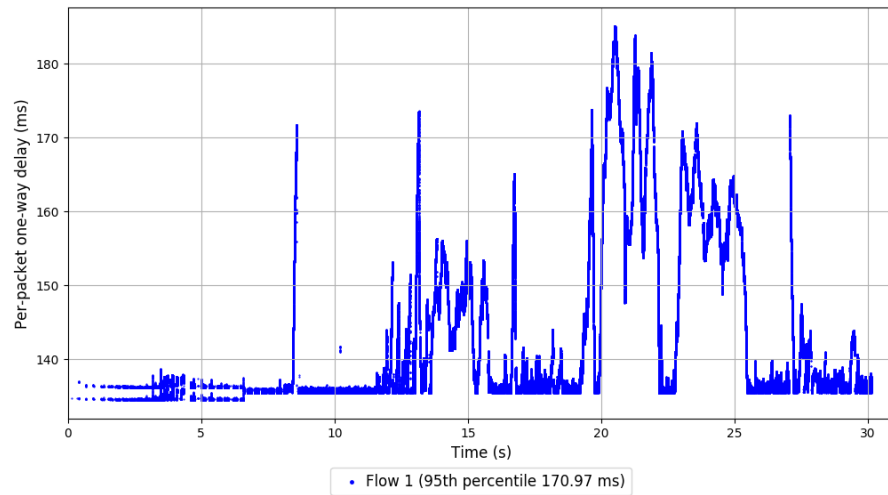
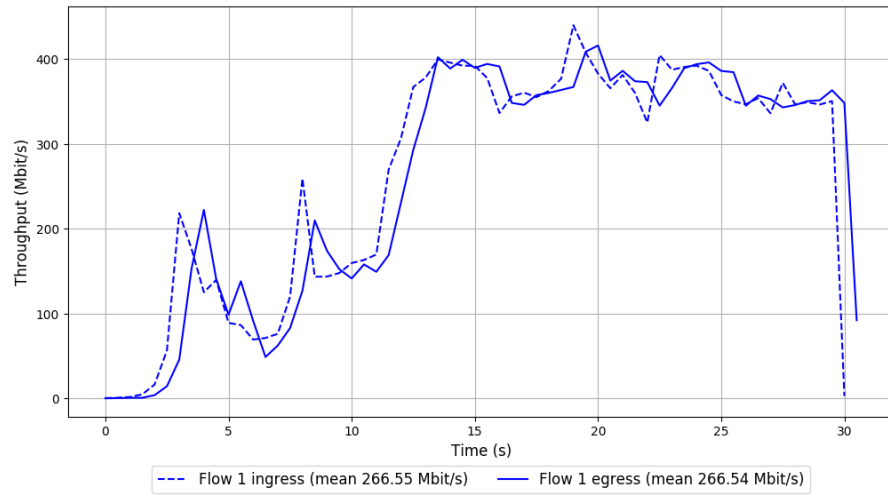


Run 9: Statistics of Copa

Start at: 2018-06-30 14:01:18
End at: 2018-06-30 14:01:48
Local clock offset: -0.21 ms
Remote clock offset: -0.343 ms

Below is generated by plot.py at 2018-06-30 14:53:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 266.54 Mbit/s
95th percentile per-packet one-way delay: 170.975 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 266.54 Mbit/s
95th percentile per-packet one-way delay: 170.975 ms
Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-06-30 14:23:38

End at: 2018-06-30 14:24:08

Local clock offset: -0.162 ms

Remote clock offset: 0.037 ms

Below is generated by plot.py at 2018-06-30 14:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.55 Mbit/s

95th percentile per-packet one-way delay: 155.594 ms

Loss rate: 0.00%

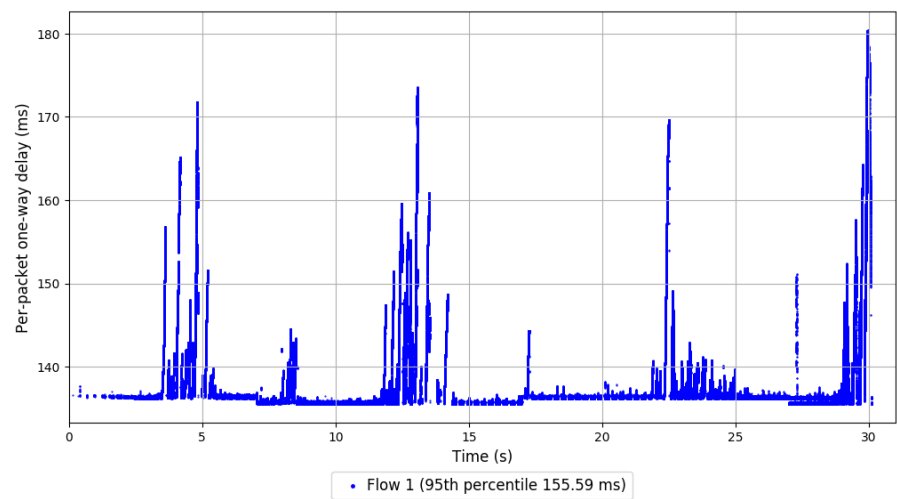
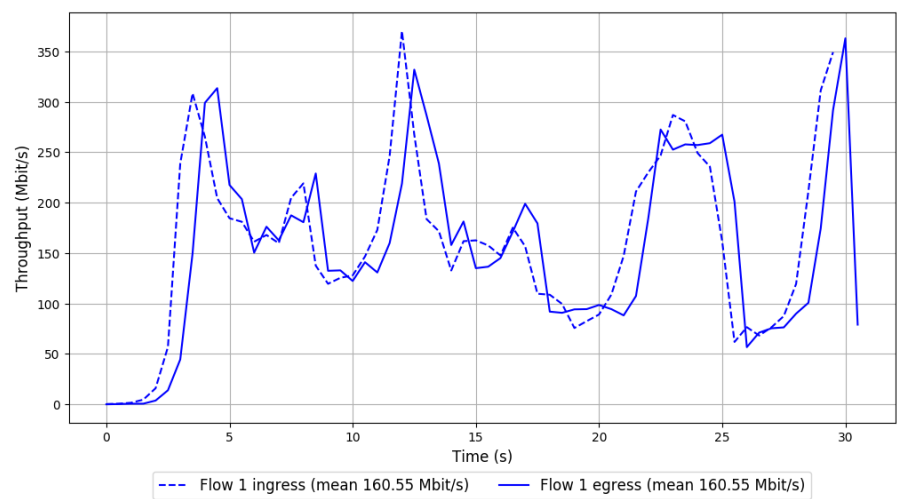
-- Flow 1:

Average throughput: 160.55 Mbit/s

95th percentile per-packet one-way delay: 155.594 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-06-30 11:04:10

End at: 2018-06-30 11:04:40

Local clock offset: 0.145 ms

Remote clock offset: 0.087 ms

Below is generated by plot.py at 2018-06-30 14:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.25 Mbit/s

95th percentile per-packet one-way delay: 143.206 ms

Loss rate: 0.00%

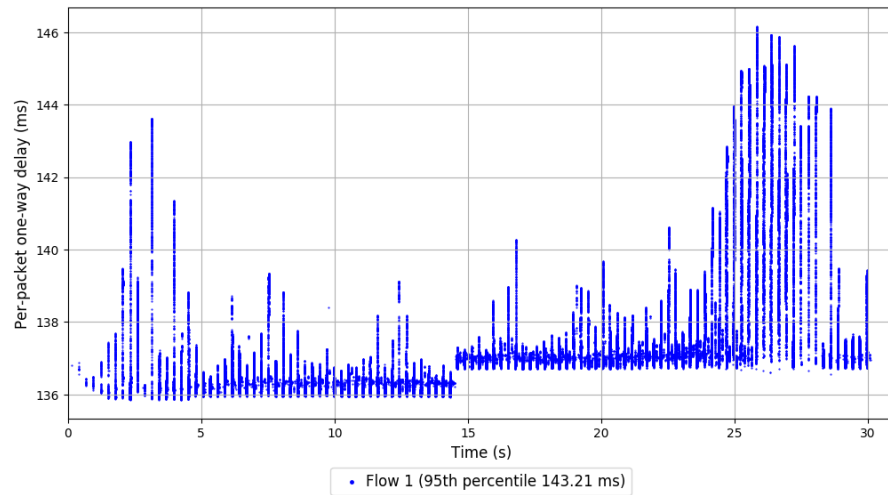
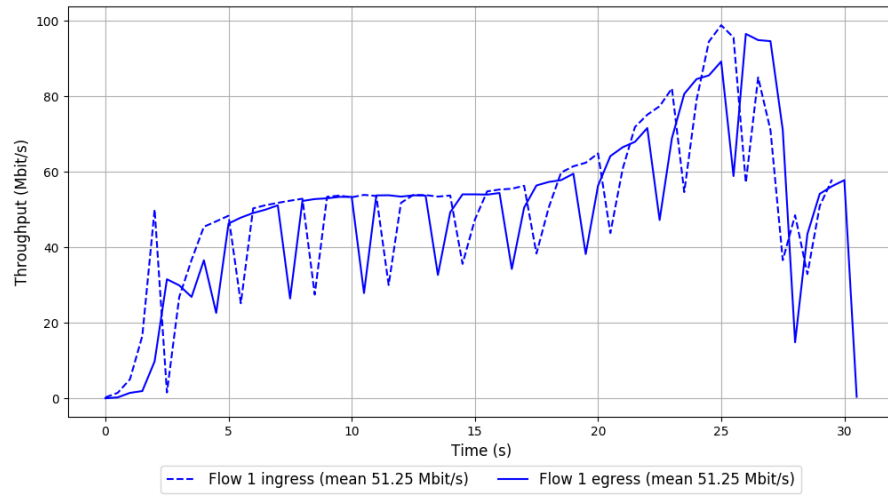
-- Flow 1:

Average throughput: 51.25 Mbit/s

95th percentile per-packet one-way delay: 143.206 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-06-30 11:26:31

End at: 2018-06-30 11:27:01

Local clock offset: 0.32 ms

Remote clock offset: 0.082 ms

Below is generated by plot.py at 2018-06-30 14:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.99 Mbit/s

95th percentile per-packet one-way delay: 142.907 ms

Loss rate: 0.00%

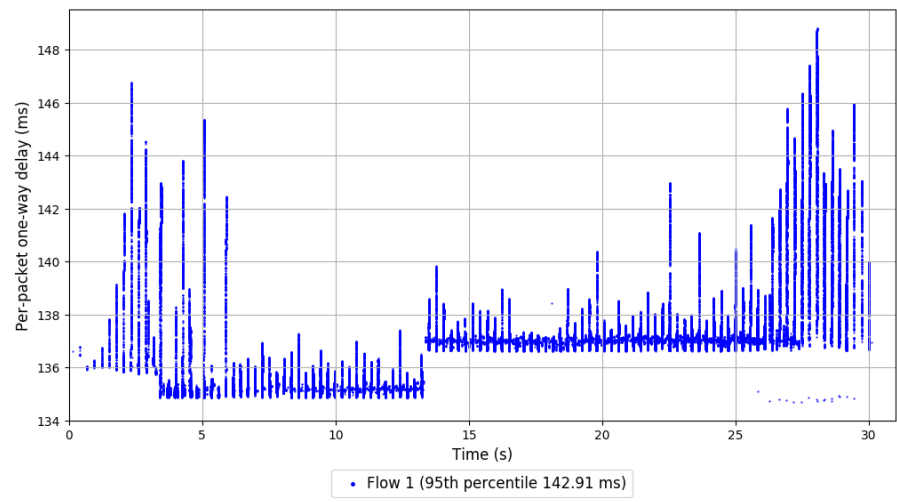
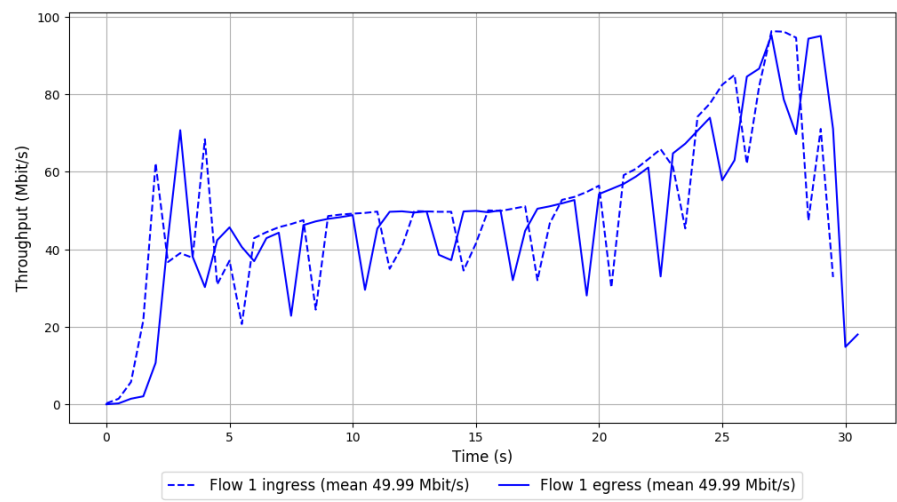
-- Flow 1:

Average throughput: 49.99 Mbit/s

95th percentile per-packet one-way delay: 142.907 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-06-30 11:49:02

End at: 2018-06-30 11:49:32

Local clock offset: 0.14 ms

Remote clock offset: 0.088 ms

Below is generated by plot.py at 2018-06-30 14:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.11 Mbit/s

95th percentile per-packet one-way delay: 143.582 ms

Loss rate: 0.00%

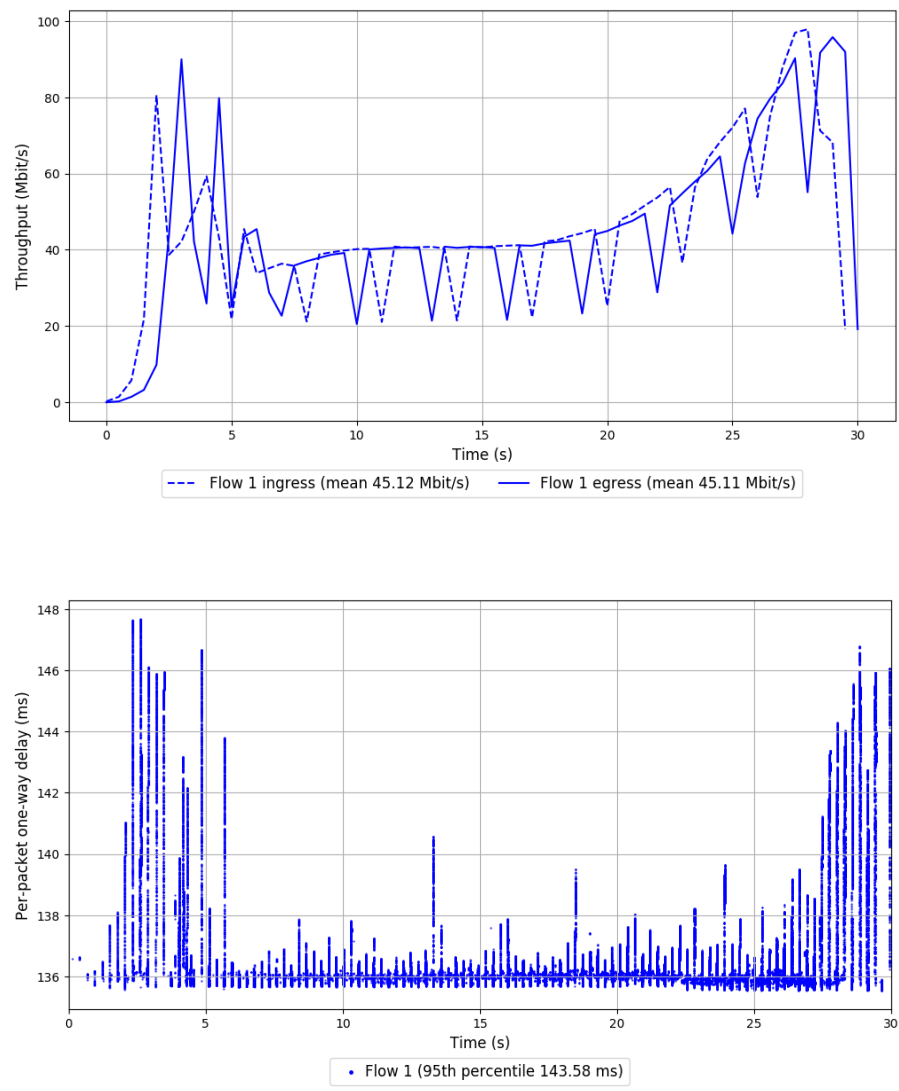
-- Flow 1:

Average throughput: 45.11 Mbit/s

95th percentile per-packet one-way delay: 143.582 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-06-30 12:12:04

End at: 2018-06-30 12:12:34

Local clock offset: 0.035 ms

Remote clock offset: 0.454 ms

Below is generated by plot.py at 2018-06-30 14:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.81 Mbit/s

95th percentile per-packet one-way delay: 144.208 ms

Loss rate: 0.00%

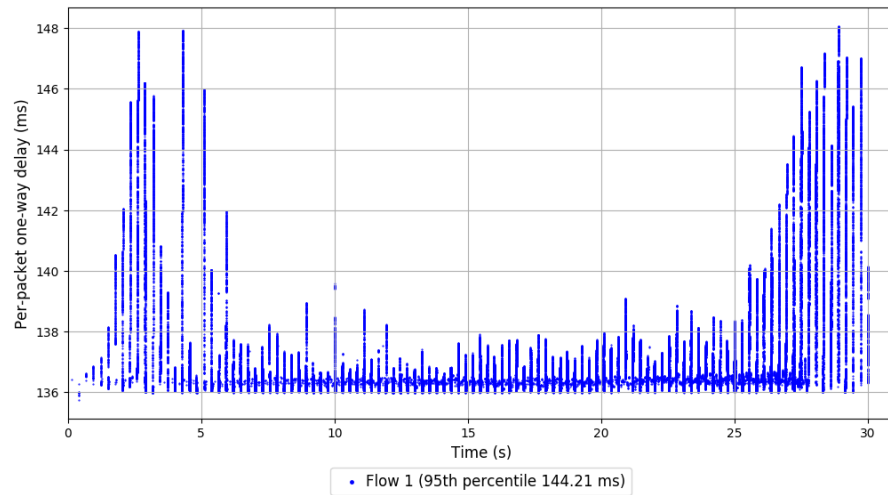
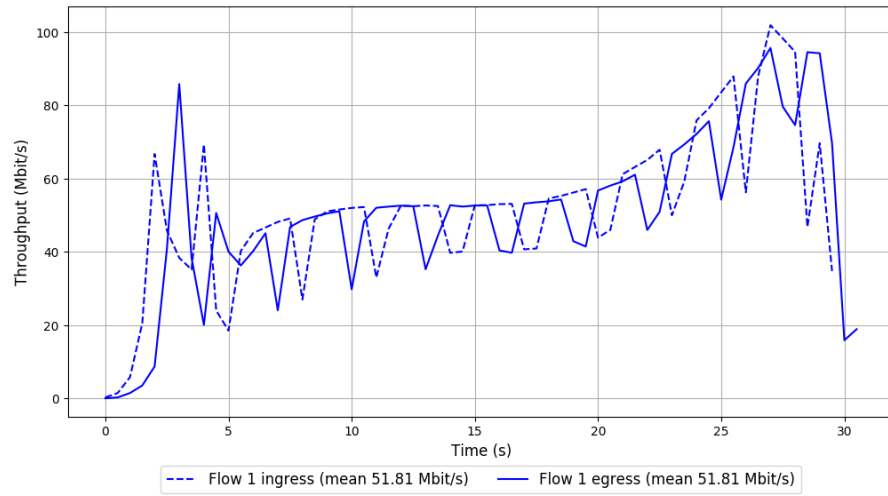
-- Flow 1:

Average throughput: 51.81 Mbit/s

95th percentile per-packet one-way delay: 144.208 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-06-30 12:34:35

End at: 2018-06-30 12:35:05

Local clock offset: 0.151 ms

Remote clock offset: 0.064 ms

Below is generated by plot.py at 2018-06-30 14:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.69 Mbit/s

95th percentile per-packet one-way delay: 144.503 ms

Loss rate: 0.00%

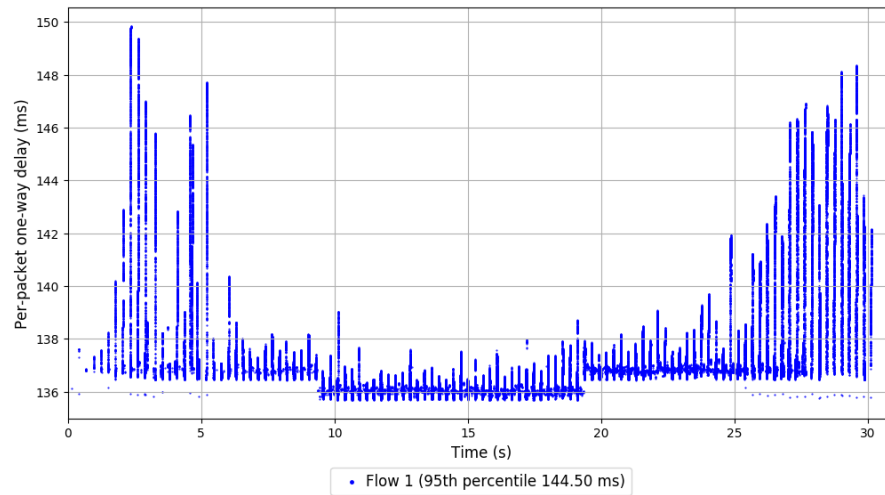
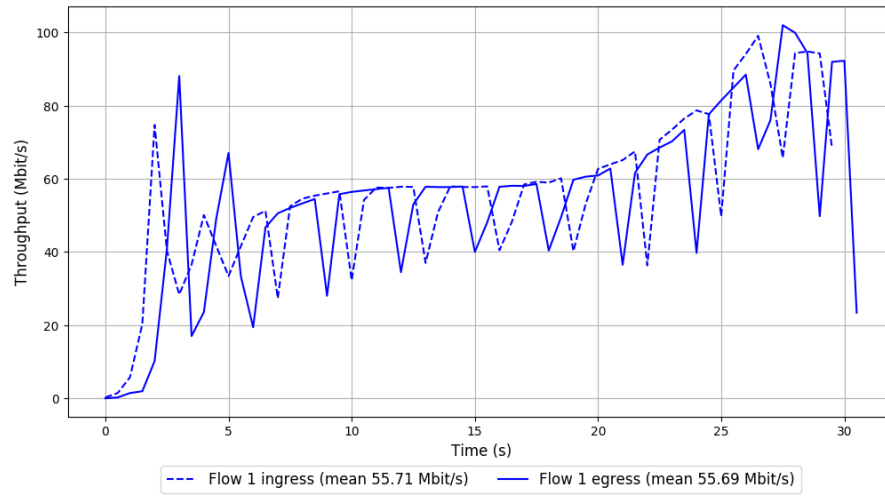
-- Flow 1:

Average throughput: 55.69 Mbit/s

95th percentile per-packet one-way delay: 144.503 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-06-30 12:56:56

End at: 2018-06-30 12:57:26

Local clock offset: 0.141 ms

Remote clock offset: 0.397 ms

Below is generated by plot.py at 2018-06-30 14:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.09 Mbit/s

95th percentile per-packet one-way delay: 146.286 ms

Loss rate: 0.00%

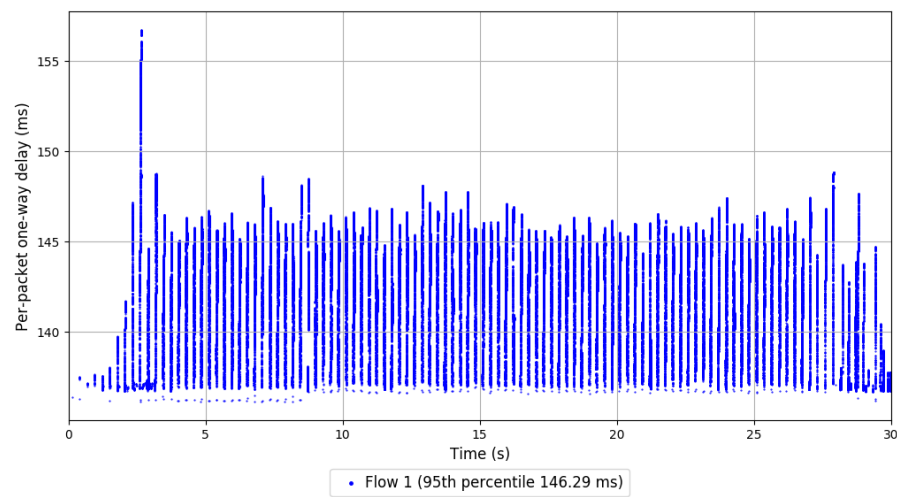
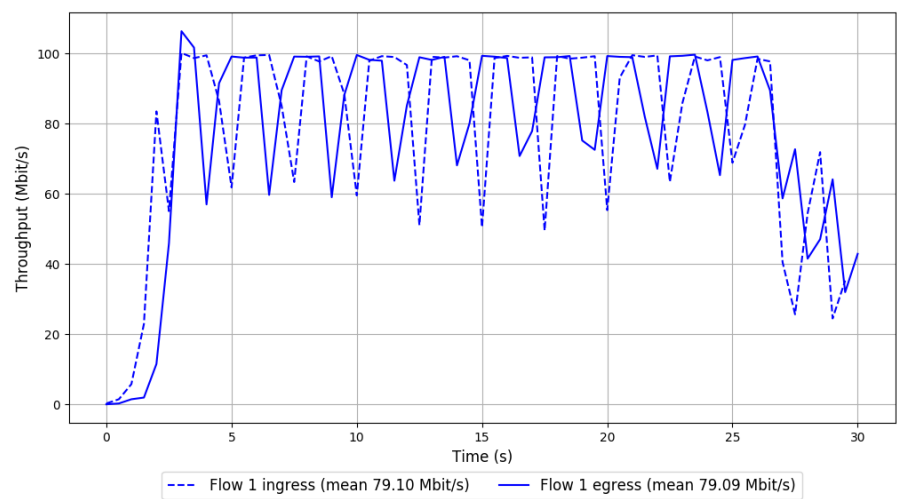
-- Flow 1:

Average throughput: 79.09 Mbit/s

95th percentile per-packet one-way delay: 146.286 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-06-30 13:19:03

End at: 2018-06-30 13:19:33

Local clock offset: -0.095 ms

Remote clock offset: 0.074 ms

Below is generated by plot.py at 2018-06-30 14:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.71 Mbit/s

95th percentile per-packet one-way delay: 141.381 ms

Loss rate: 0.00%

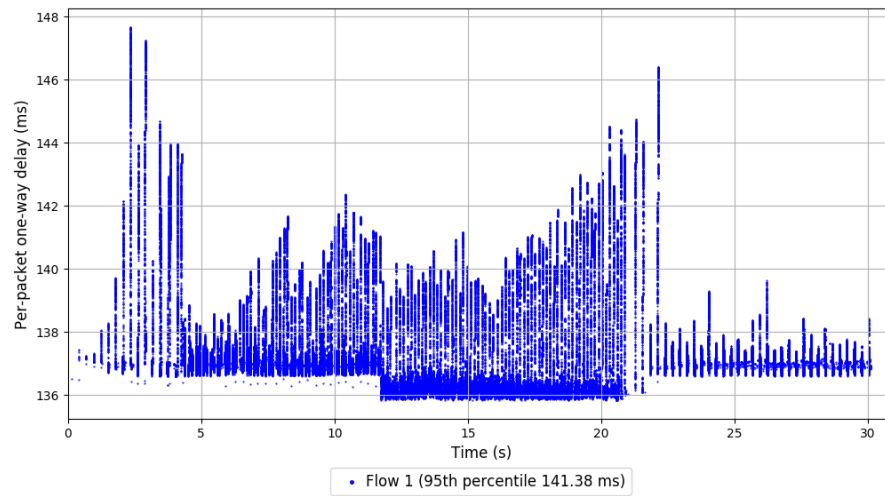
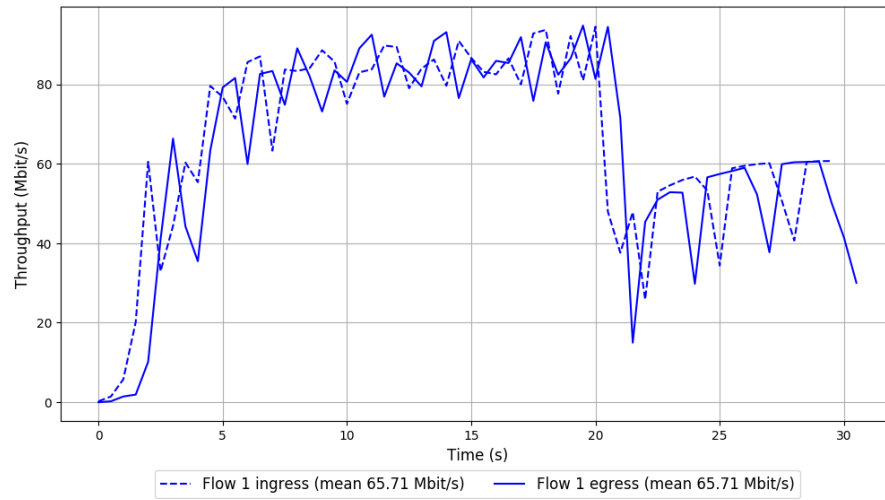
-- Flow 1:

Average throughput: 65.71 Mbit/s

95th percentile per-packet one-way delay: 141.381 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

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

End at: 2018-06-30 13:42:00

Local clock offset: -0.135 ms

Remote clock offset: 0.179 ms

Below is generated by plot.py at 2018-06-30 14:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.69 Mbit/s

95th percentile per-packet one-way delay: 145.109 ms

Loss rate: 0.00%

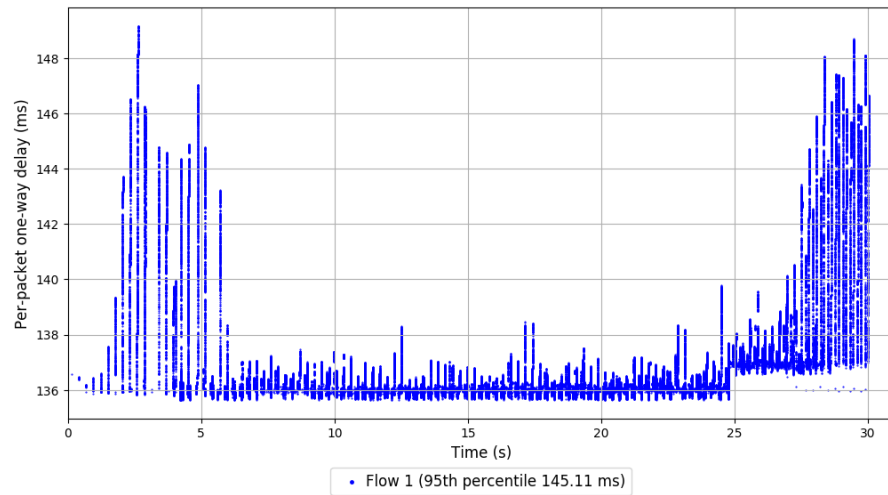
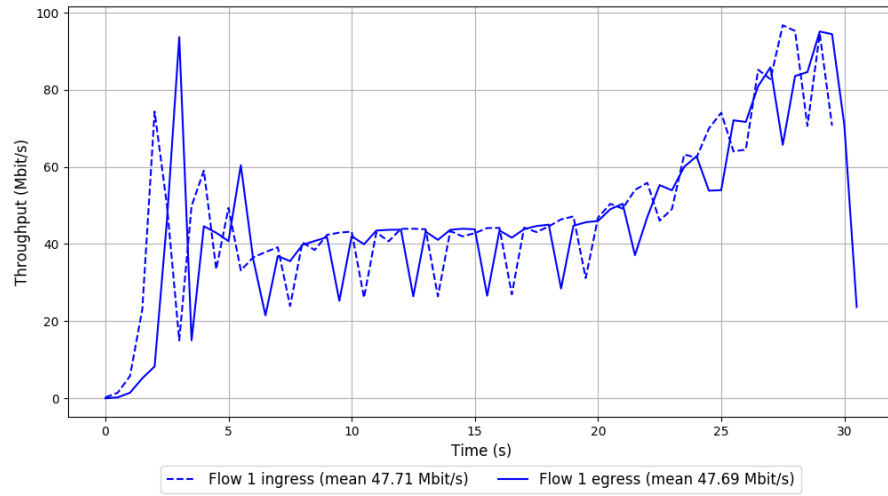
-- Flow 1:

Average throughput: 47.69 Mbit/s

95th percentile per-packet one-way delay: 145.109 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-06-30 14:04:07

End at: 2018-06-30 14:04:37

Local clock offset: -0.361 ms

Remote clock offset: 0.056 ms

Below is generated by plot.py at 2018-06-30 14:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.41 Mbit/s

95th percentile per-packet one-way delay: 145.935 ms

Loss rate: 0.00%

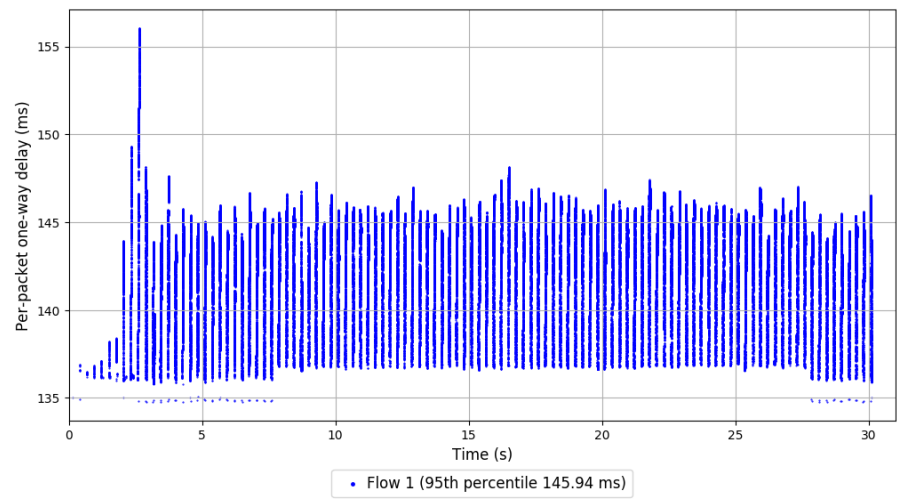
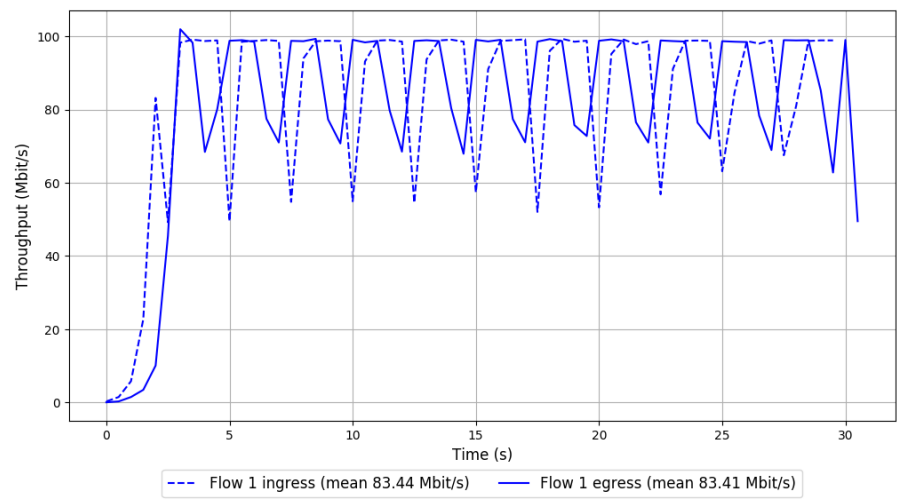
-- Flow 1:

Average throughput: 83.41 Mbit/s

95th percentile per-packet one-way delay: 145.935 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-06-30 14:26:16

End at: 2018-06-30 14:26:46

Local clock offset: -0.161 ms

Remote clock offset: 0.032 ms

Below is generated by plot.py at 2018-06-30 14:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.49 Mbit/s

95th percentile per-packet one-way delay: 146.025 ms

Loss rate: 0.00%

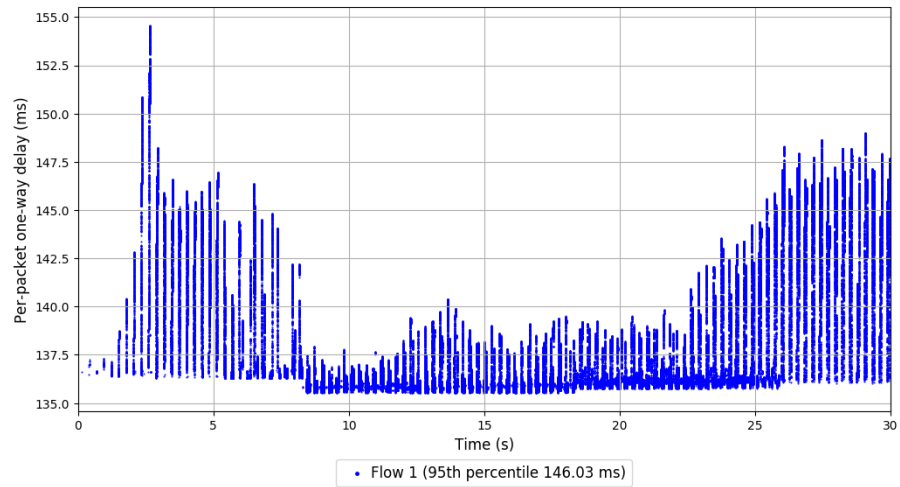
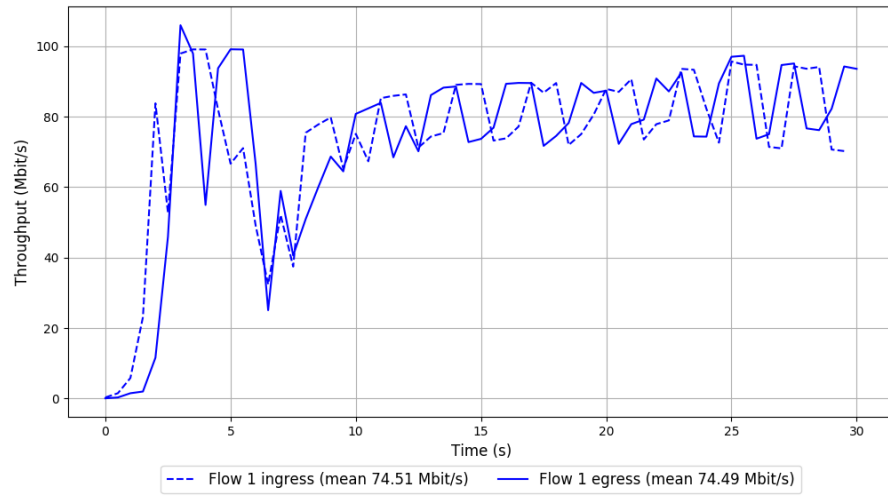
-- Flow 1:

Average throughput: 74.49 Mbit/s

95th percentile per-packet one-way delay: 146.025 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-06-30 10:48:24

End at: 2018-06-30 10:48:54

Local clock offset: 0.082 ms

Remote clock offset: 0.038 ms

Below is generated by plot.py at 2018-06-30 15:04:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 750.84 Mbit/s

95th percentile per-packet one-way delay: 351.336 ms

Loss rate: 3.56%

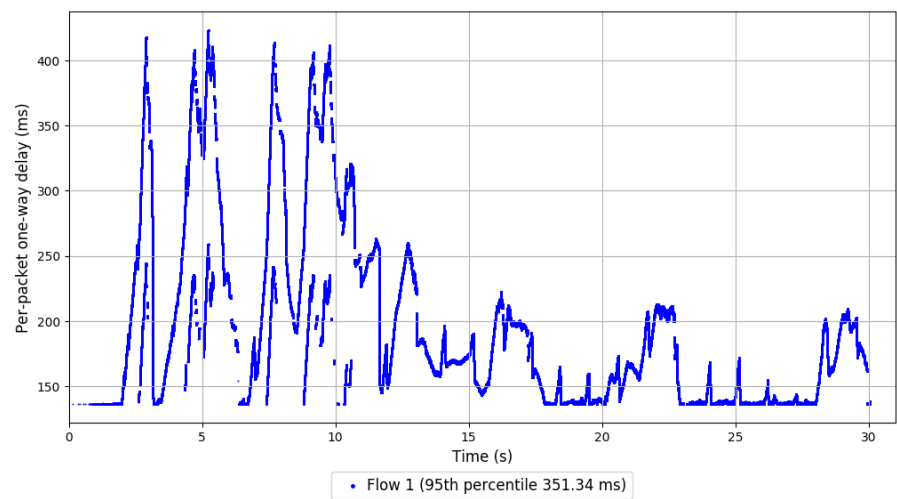
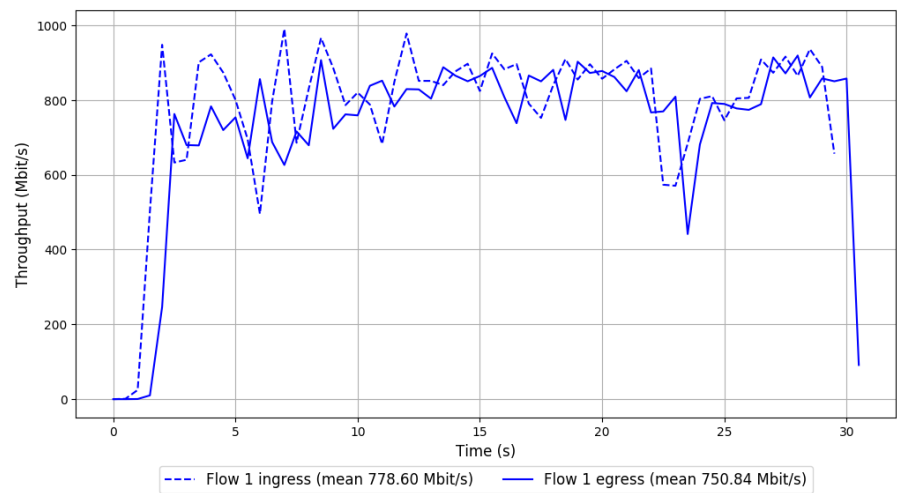
-- Flow 1:

Average throughput: 750.84 Mbit/s

95th percentile per-packet one-way delay: 351.336 ms

Loss rate: 3.56%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-06-30 11:10:42

End at: 2018-06-30 11:11:12

Local clock offset: 0.357 ms

Remote clock offset: 0.077 ms

Below is generated by plot.py at 2018-06-30 15:04:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 781.99 Mbit/s

95th percentile per-packet one-way delay: 236.236 ms

Loss rate: 2.11%

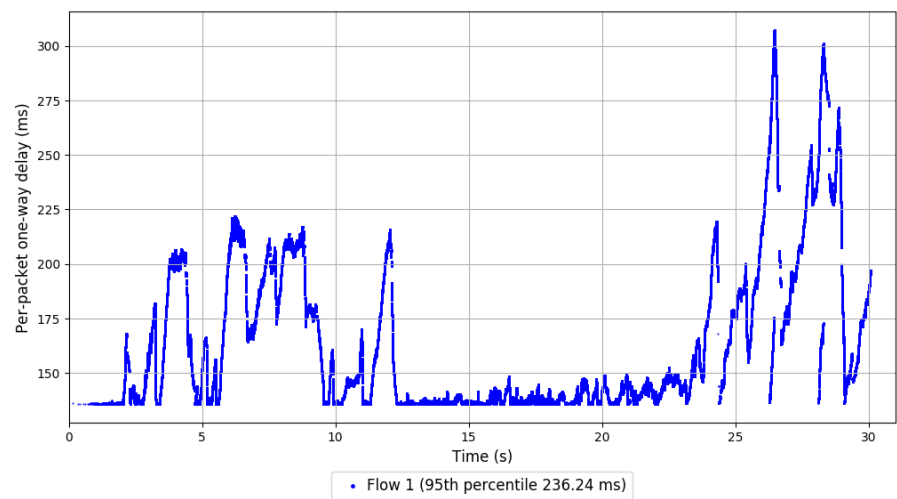
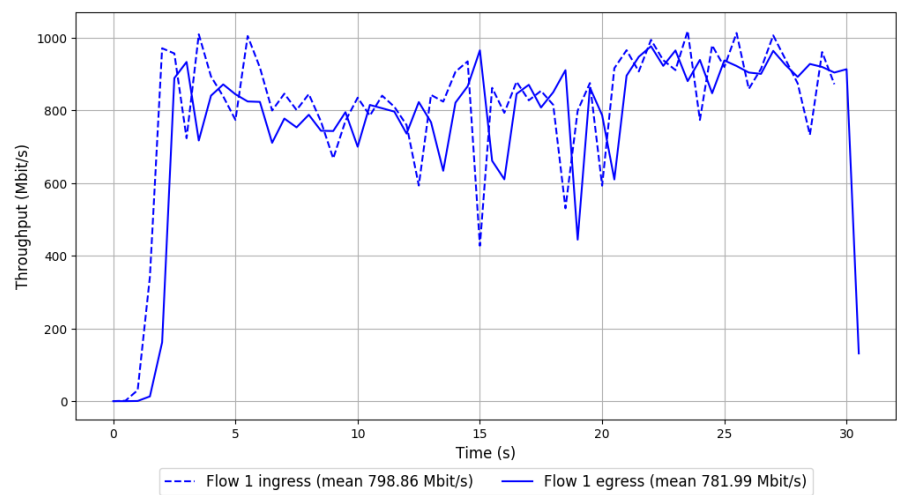
-- Flow 1:

Average throughput: 781.99 Mbit/s

95th percentile per-packet one-way delay: 236.236 ms

Loss rate: 2.11%

Run 2: Report of FillP — Data Link

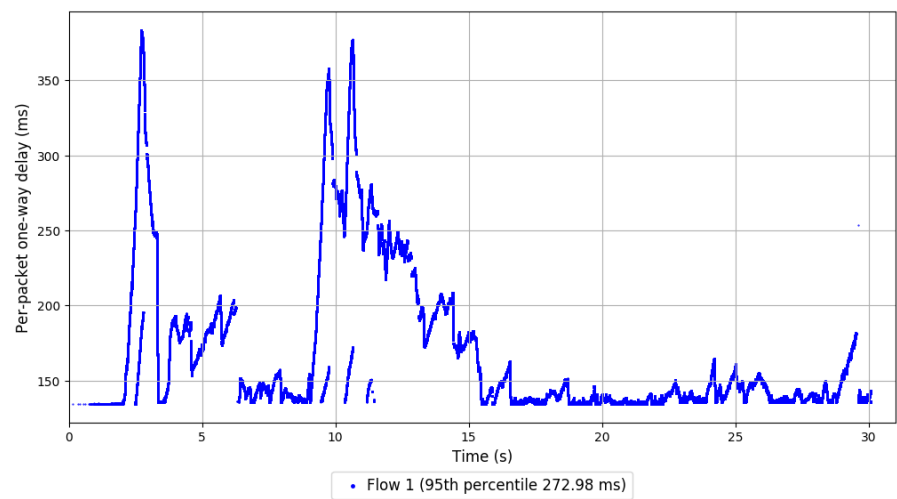
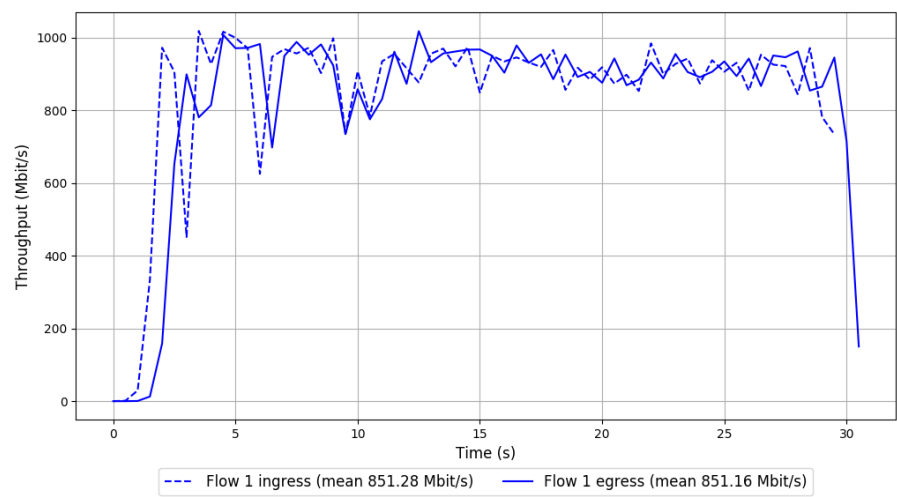


Run 3: Statistics of FillP

Start at: 2018-06-30 11:33:12
End at: 2018-06-30 11:33:42
Local clock offset: 0.272 ms
Remote clock offset: -0.292 ms

Below is generated by plot.py at 2018-06-30 15:06:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 851.16 Mbit/s
95th percentile per-packet one-way delay: 272.975 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 851.16 Mbit/s
95th percentile per-packet one-way delay: 272.975 ms
Loss rate: 0.01%

Run 3: Report of FillP — Data Link

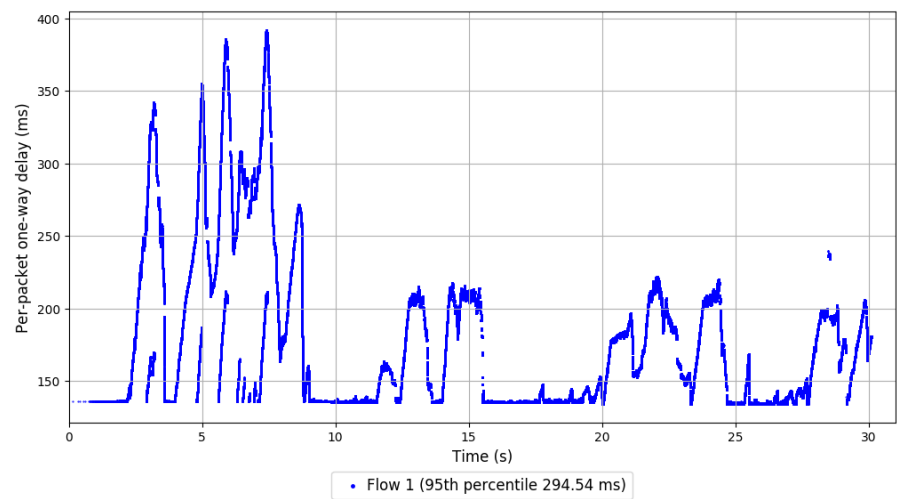
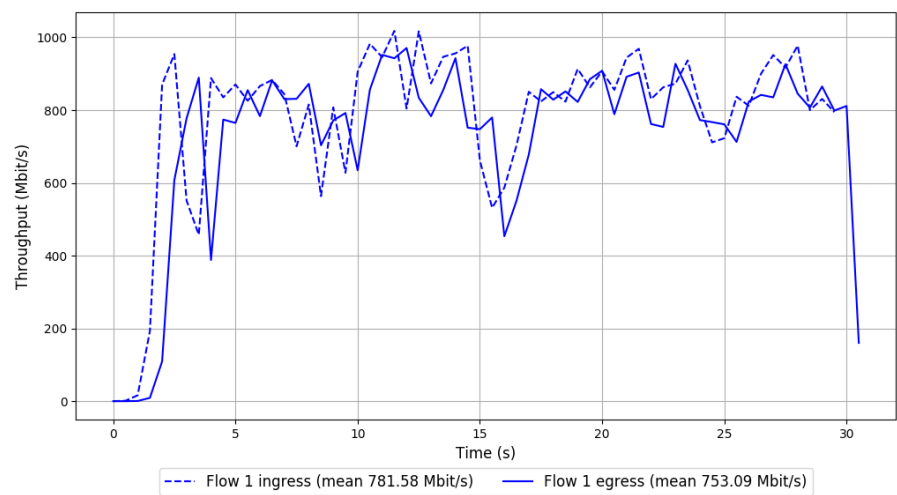


Run 4: Statistics of FillP

Start at: 2018-06-30 11:55:45
End at: 2018-06-30 11:56:15
Local clock offset: 0.171 ms
Remote clock offset: -0.259 ms

Below is generated by plot.py at 2018-06-30 15:06:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 753.09 Mbit/s
95th percentile per-packet one-way delay: 294.537 ms
Loss rate: 3.64%
-- Flow 1:
Average throughput: 753.09 Mbit/s
95th percentile per-packet one-way delay: 294.537 ms
Loss rate: 3.64%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-06-30 12:18:38

End at: 2018-06-30 12:19:08

Local clock offset: 0.036 ms

Remote clock offset: 0.056 ms

Below is generated by plot.py at 2018-06-30 15:06:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 788.22 Mbit/s

95th percentile per-packet one-way delay: 204.722 ms

Loss rate: 2.59%

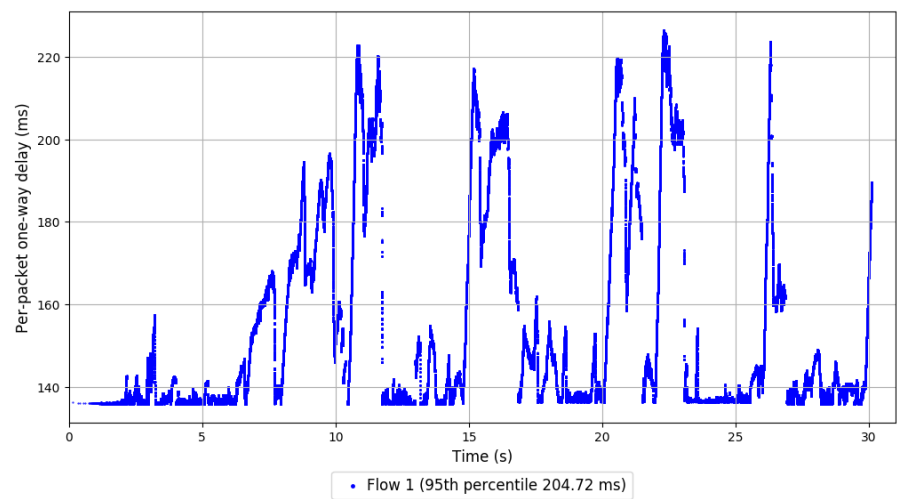
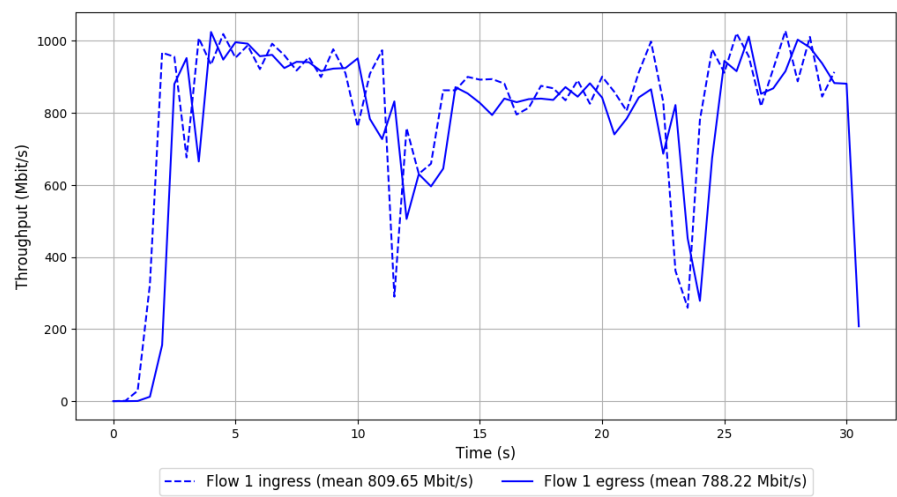
-- Flow 1:

Average throughput: 788.22 Mbit/s

95th percentile per-packet one-way delay: 204.722 ms

Loss rate: 2.59%

Run 5: Report of FillP — Data Link

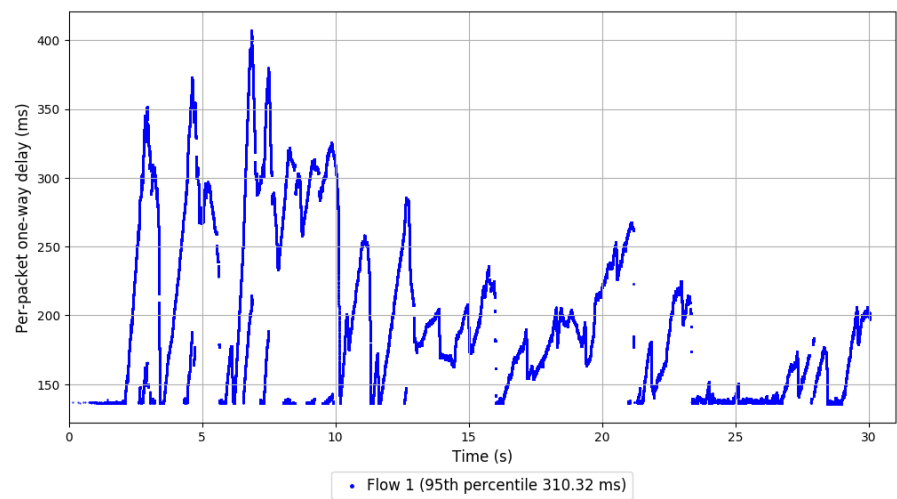
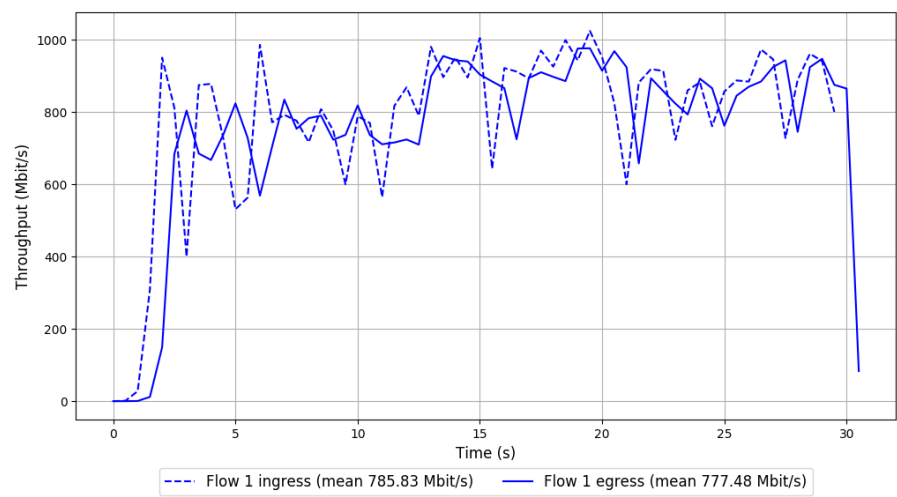


Run 6: Statistics of FillP

Start at: 2018-06-30 12:40:56
End at: 2018-06-30 12:41:26
Local clock offset: 0.003 ms
Remote clock offset: -0.297 ms

Below is generated by plot.py at 2018-06-30 15:06:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 777.48 Mbit/s
95th percentile per-packet one-way delay: 310.320 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 777.48 Mbit/s
95th percentile per-packet one-way delay: 310.320 ms
Loss rate: 1.06%

Run 6: Report of FillP — Data Link

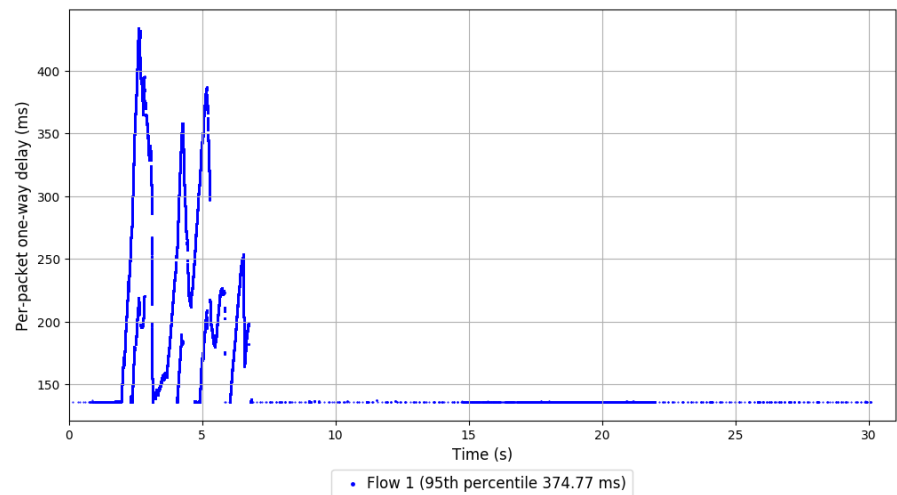
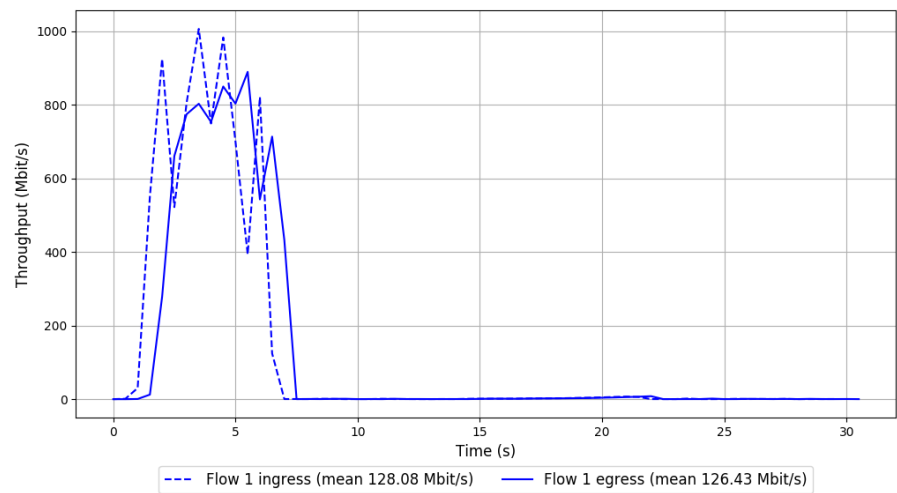


Run 7: Statistics of FillP

Start at: 2018-06-30 13:03:27
End at: 2018-06-30 13:03:57
Local clock offset: 0.09 ms
Remote clock offset: -0.044 ms

Below is generated by plot.py at 2018-06-30 15:06:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 126.43 Mbit/s
95th percentile per-packet one-way delay: 374.773 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 126.43 Mbit/s
95th percentile per-packet one-way delay: 374.773 ms
Loss rate: 1.29%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-06-30 13:25:45

End at: 2018-06-30 13:26:15

Local clock offset: -0.085 ms

Remote clock offset: 0.1 ms

Below is generated by plot.py at 2018-06-30 15:12:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 852.07 Mbit/s

95th percentile per-packet one-way delay: 226.030 ms

Loss rate: 0.00%

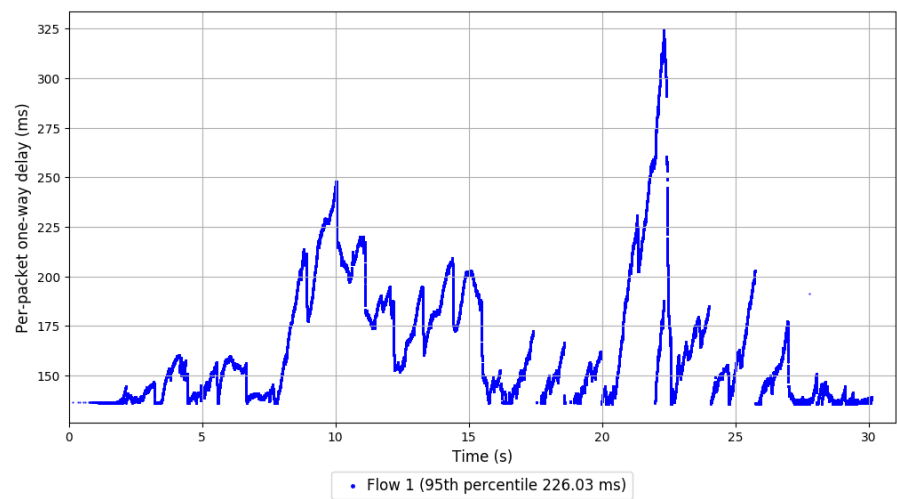
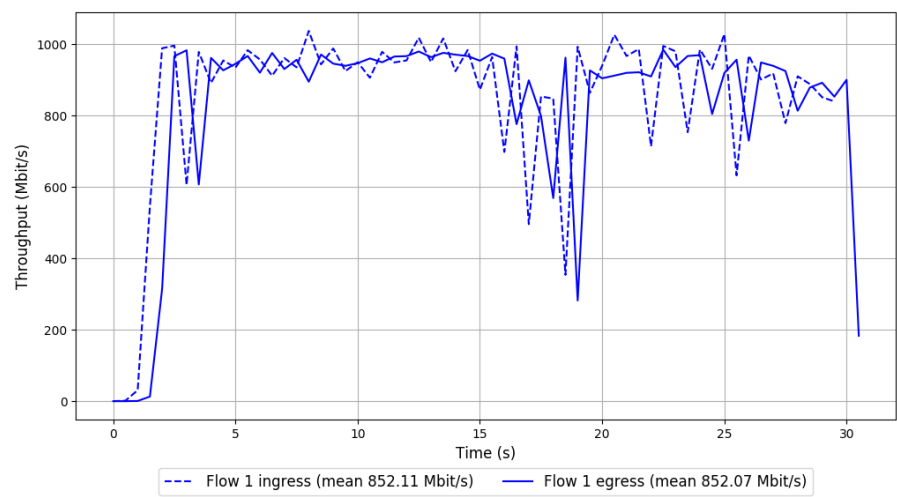
-- Flow 1:

Average throughput: 852.07 Mbit/s

95th percentile per-packet one-way delay: 226.030 ms

Loss rate: 0.00%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-06-30 13:47:49

End at: 2018-06-30 13:48:19

Local clock offset: -0.015 ms

Remote clock offset: 0.137 ms

Below is generated by plot.py at 2018-06-30 15:12:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 751.99 Mbit/s

95th percentile per-packet one-way delay: 230.223 ms

Loss rate: 3.47%

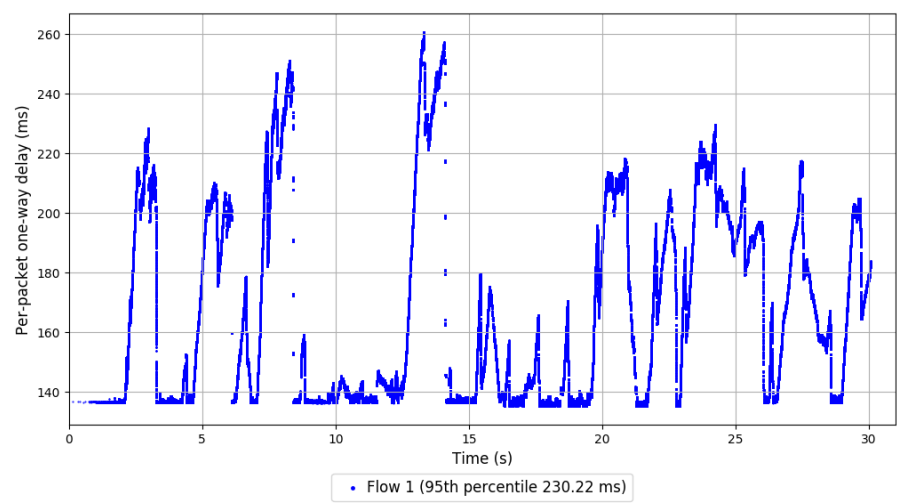
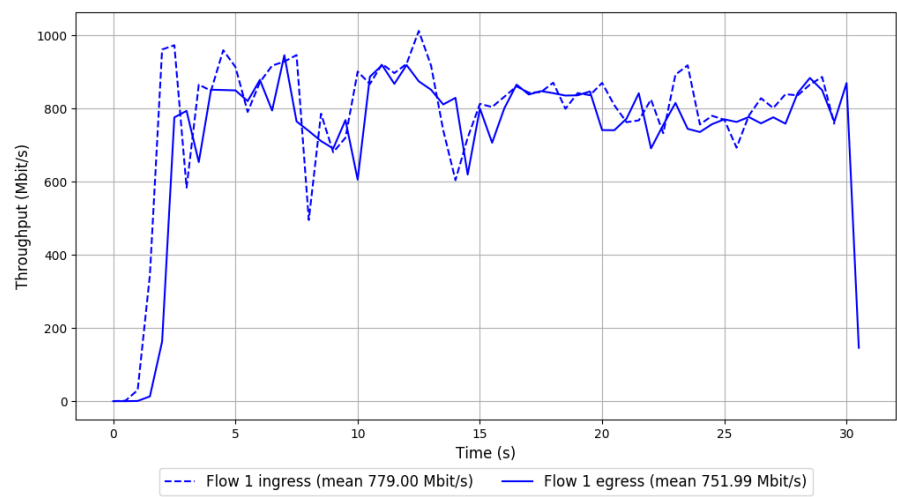
-- Flow 1:

Average throughput: 751.99 Mbit/s

95th percentile per-packet one-way delay: 230.223 ms

Loss rate: 3.47%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-06-30 14:10:19

End at: 2018-06-30 14:10:49

Local clock offset: -0.279 ms

Remote clock offset: 0.414 ms

Below is generated by plot.py at 2018-06-30 15:21:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 784.43 Mbit/s

95th percentile per-packet one-way delay: 315.365 ms

Loss rate: 1.18%

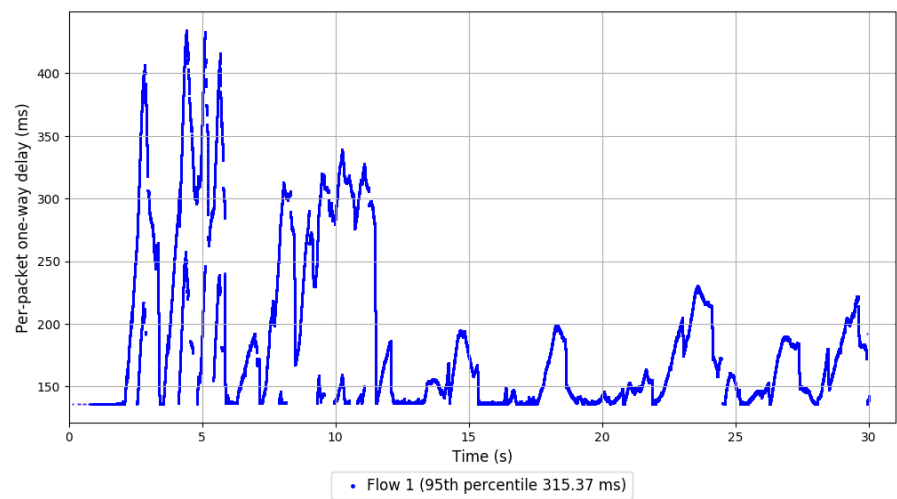
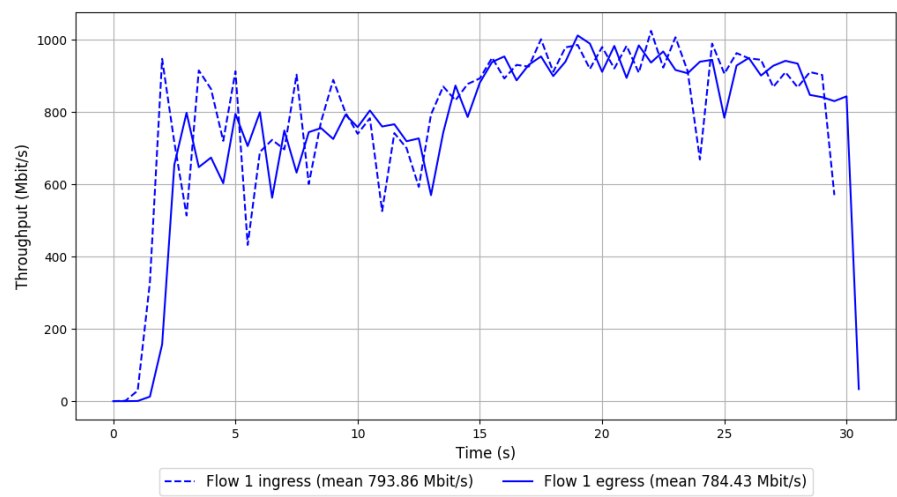
-- Flow 1:

Average throughput: 784.43 Mbit/s

95th percentile per-packet one-way delay: 315.365 ms

Loss rate: 1.18%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

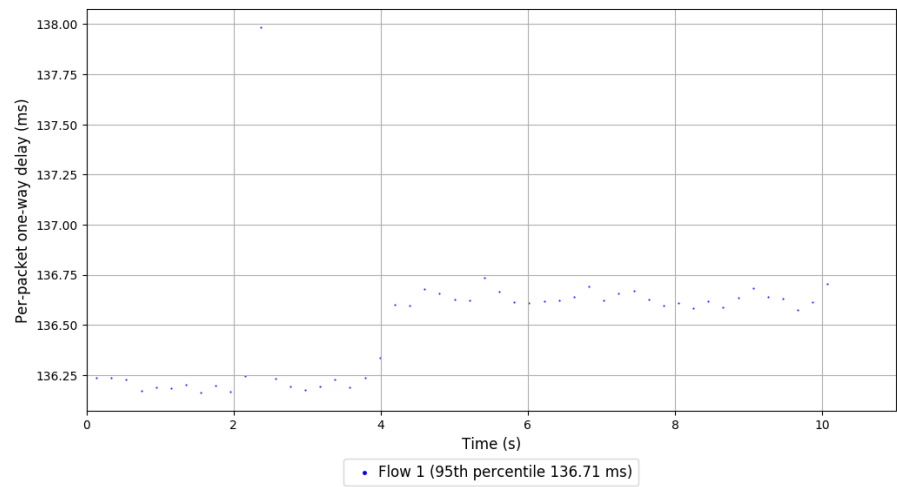
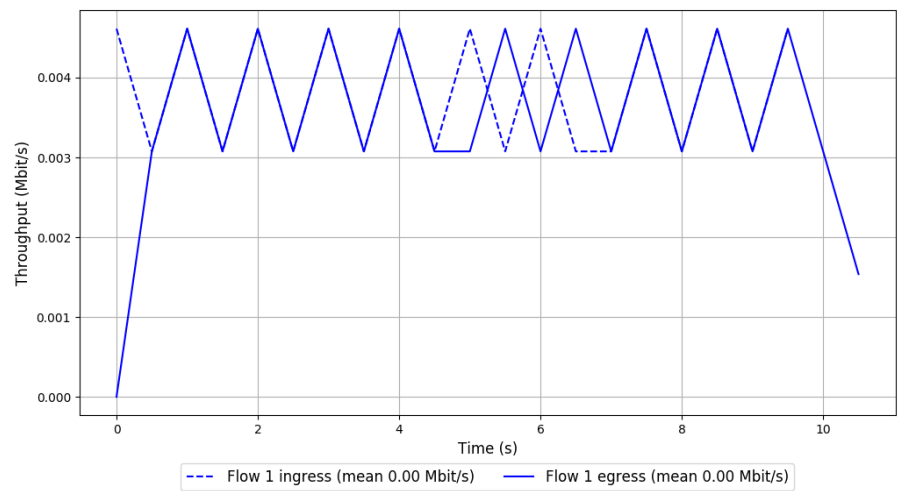
Start at: 2018-06-30 10:53:10

End at: 2018-06-30 10:53:40

Local clock offset: -0.067 ms

Remote clock offset: 0.043 ms

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

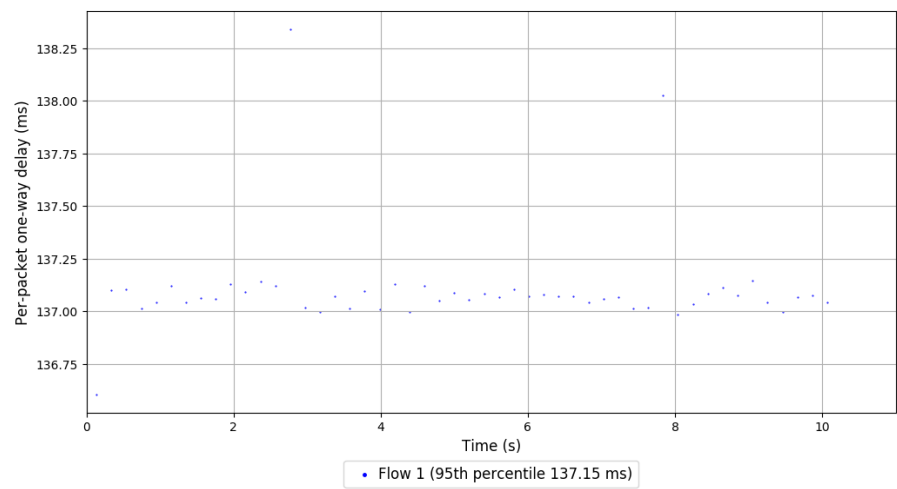
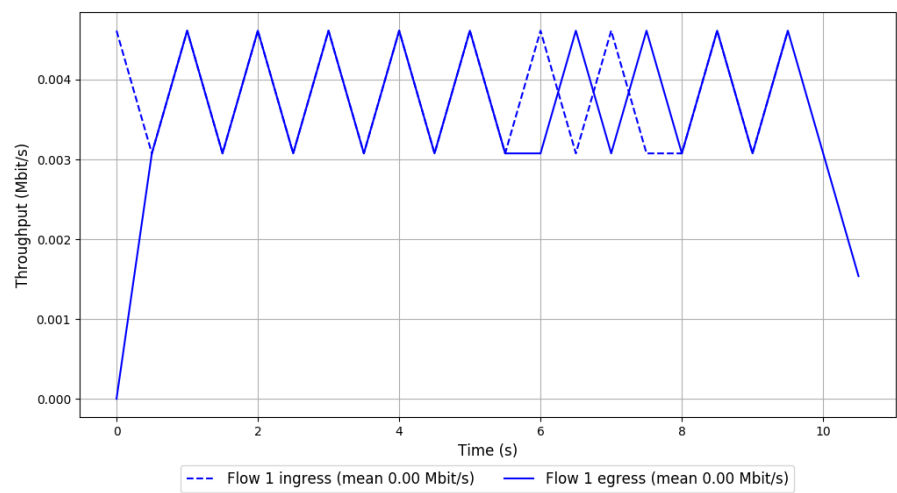
Start at: 2018-06-30 11:15:24

End at: 2018-06-30 11:15:54

Local clock offset: 0.455 ms

Remote clock offset: 0.503 ms

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

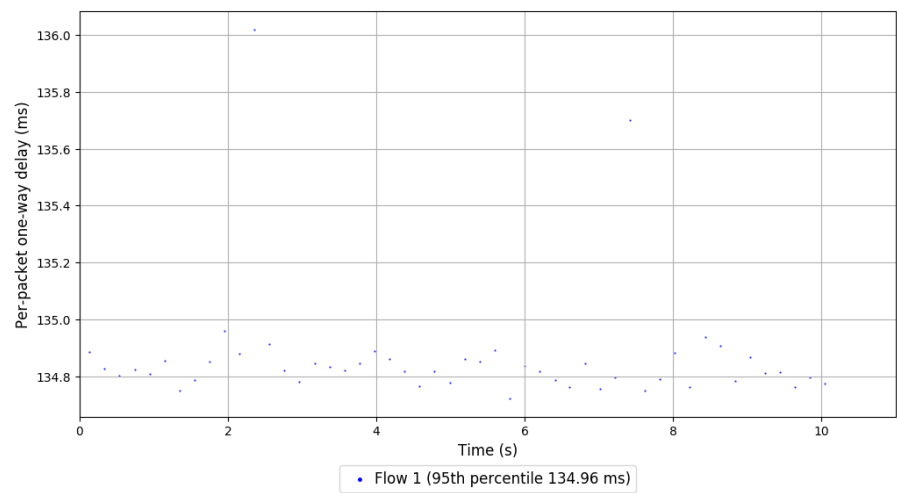
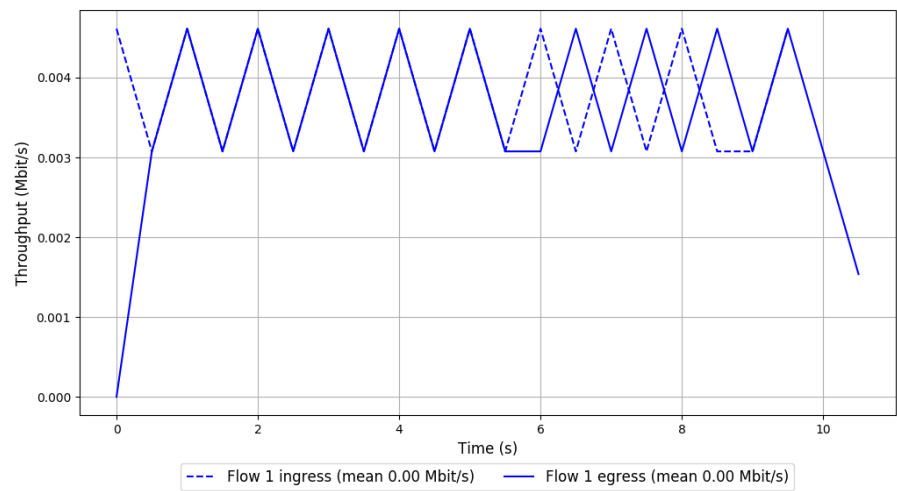
Start at: 2018-06-30 11:37:53

End at: 2018-06-30 11:38:23

Local clock offset: 0.154 ms

Remote clock offset: 0.124 ms

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

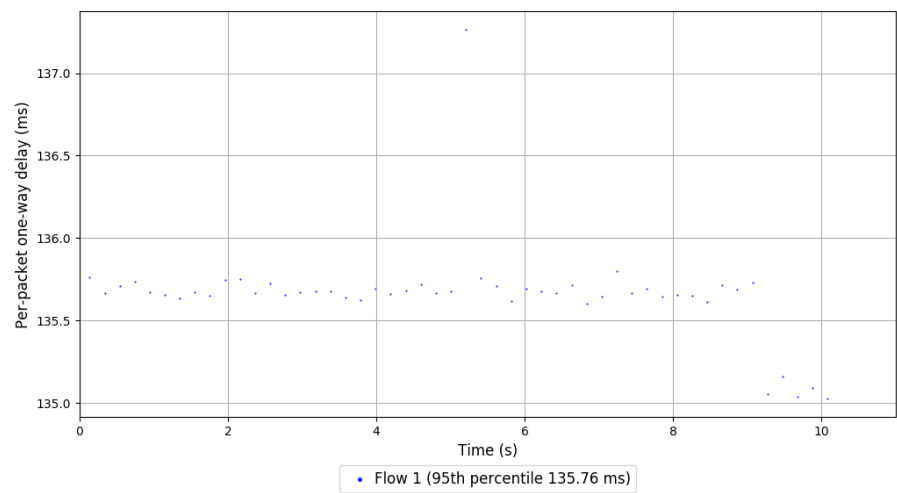
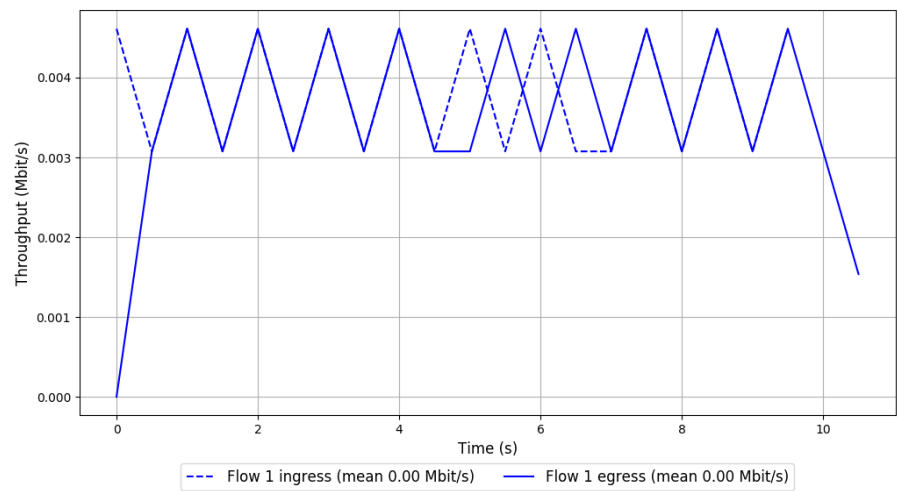
Start at: 2018-06-30 12:00:35

End at: 2018-06-30 12:01:05

Local clock offset: 0.157 ms

Remote clock offset: -0.237 ms

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

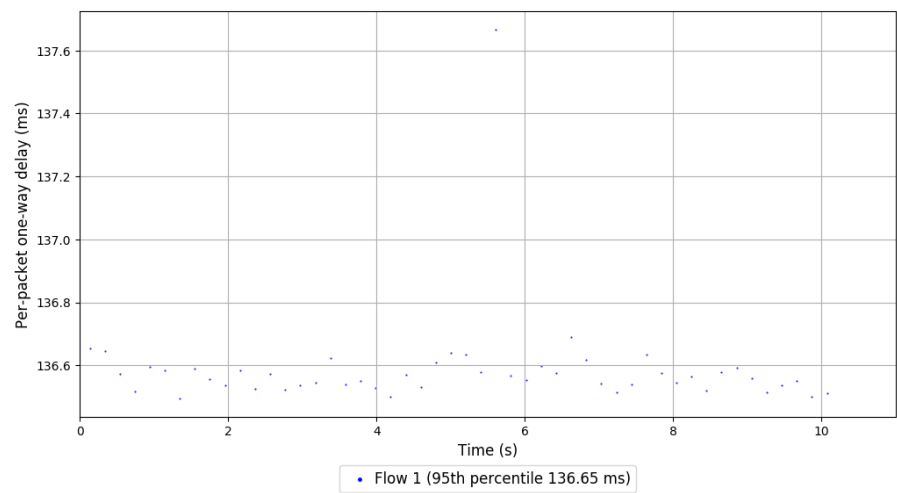
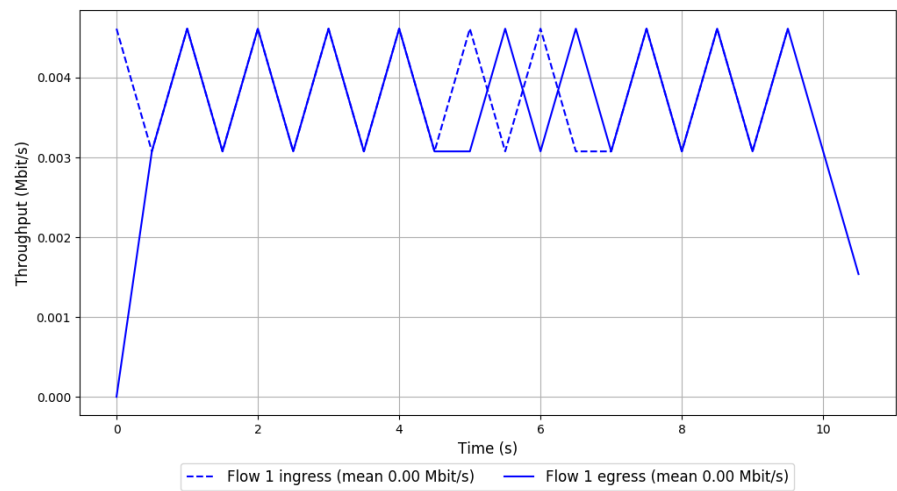
Start at: 2018-06-30 12:23:21

End at: 2018-06-30 12:23:51

Local clock offset: -0.08 ms

Remote clock offset: 0.034 ms

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

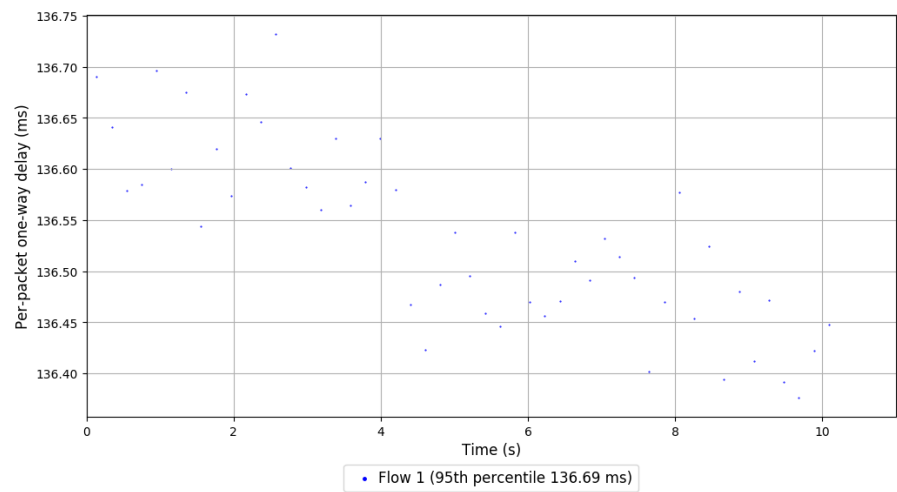
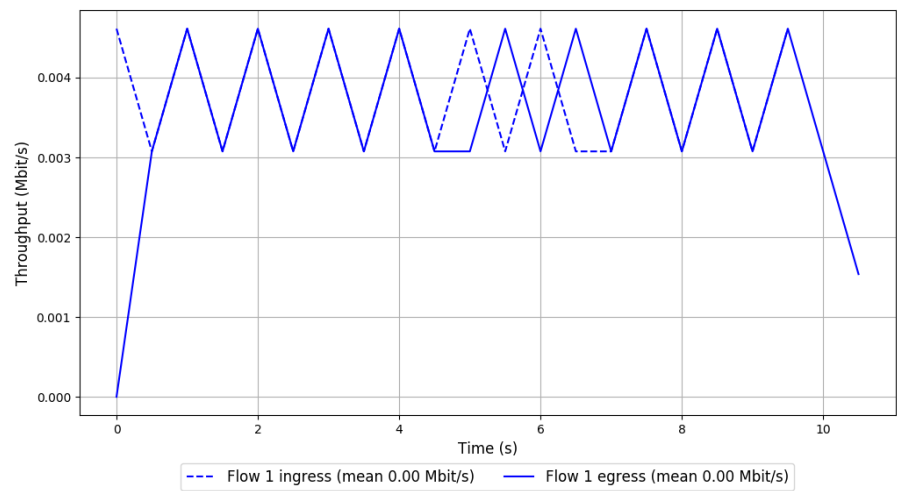
Start at: 2018-06-30 12:45:40

End at: 2018-06-30 12:46:10

Local clock offset: 0.088 ms

Remote clock offset: 0.001 ms

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

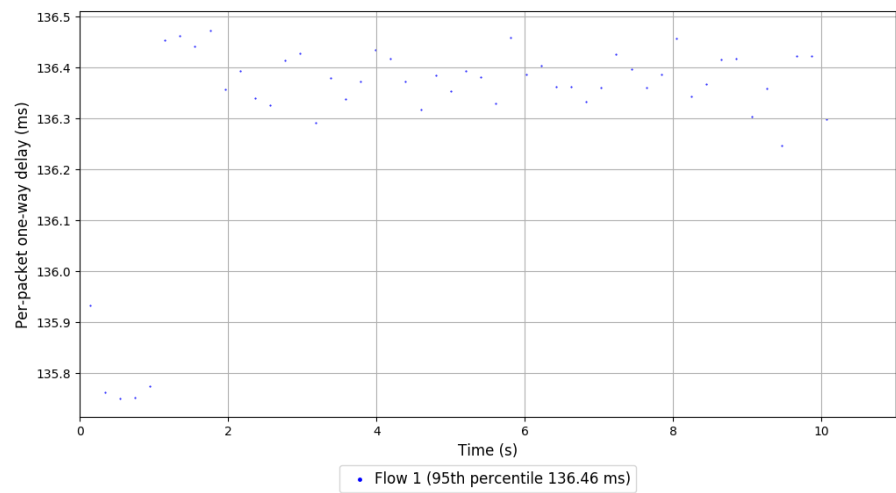
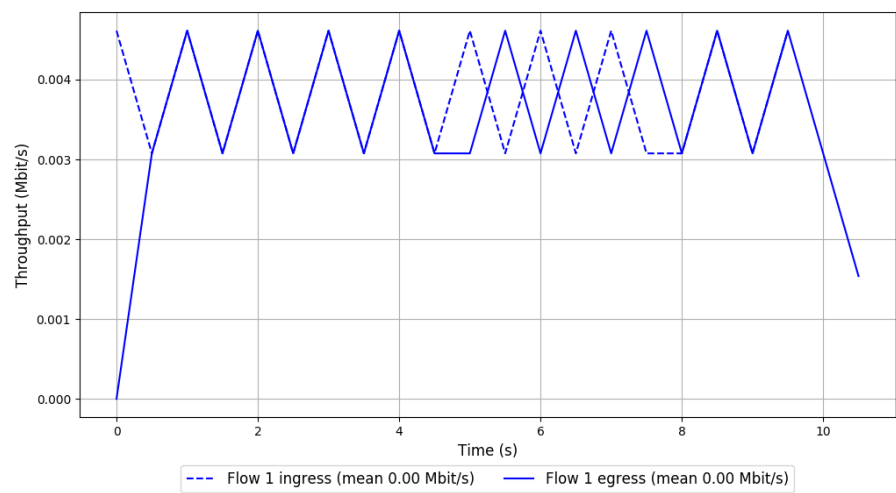
Start at: 2018-06-30 13:07:44

End at: 2018-06-30 13:08:14

Local clock offset: 0.152 ms

Remote clock offset: -0.049 ms

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

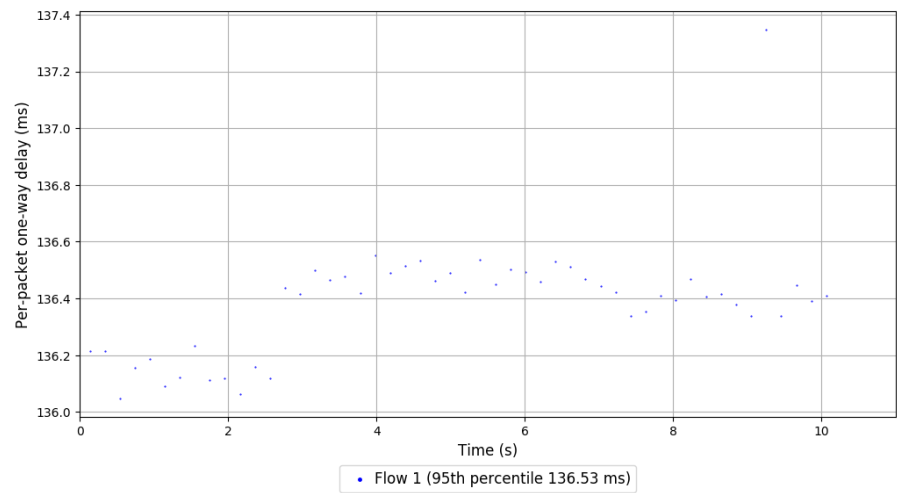
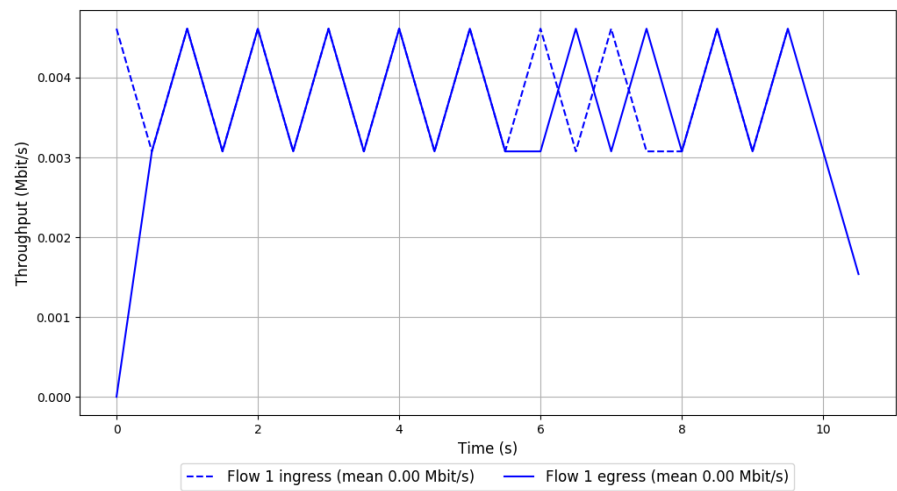
Start at: 2018-06-30 13:30:22

End at: 2018-06-30 13:30:52

Local clock offset: -0.083 ms

Remote clock offset: -0.275 ms

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

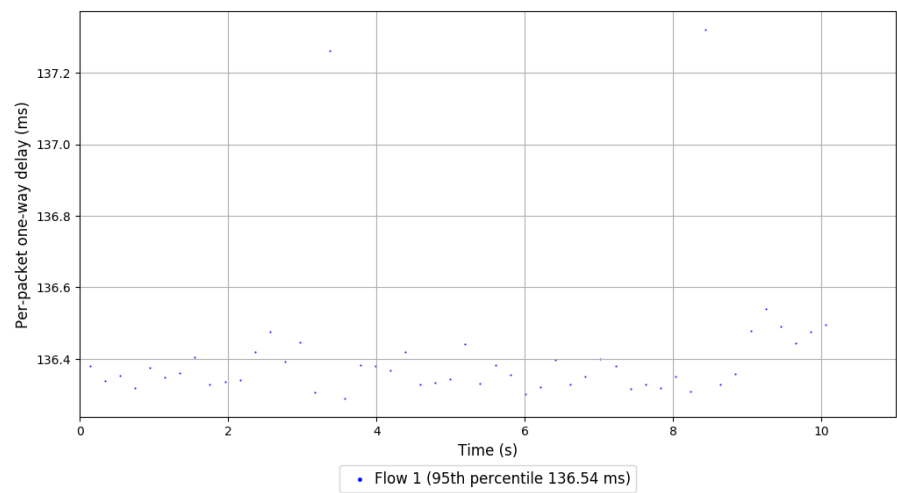
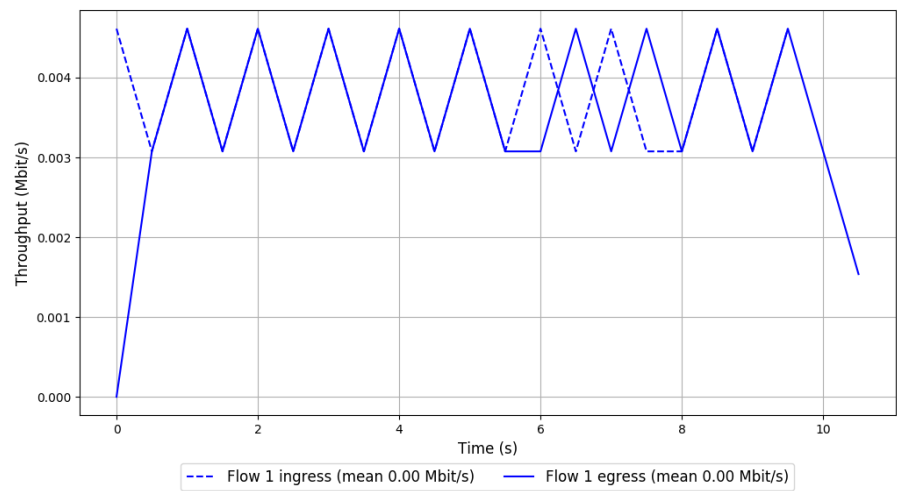
Start at: 2018-06-30 13:52:36

End at: 2018-06-30 13:53:06

Local clock offset: -0.046 ms

Remote clock offset: 0.078 ms

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

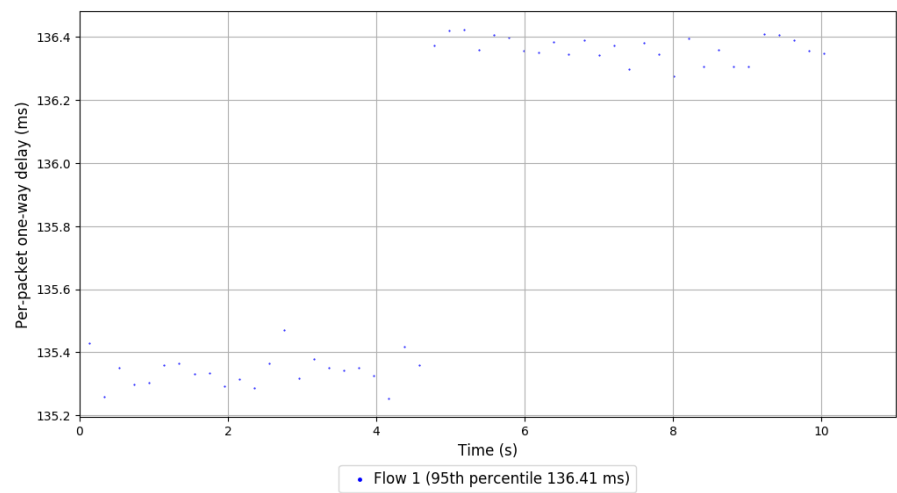
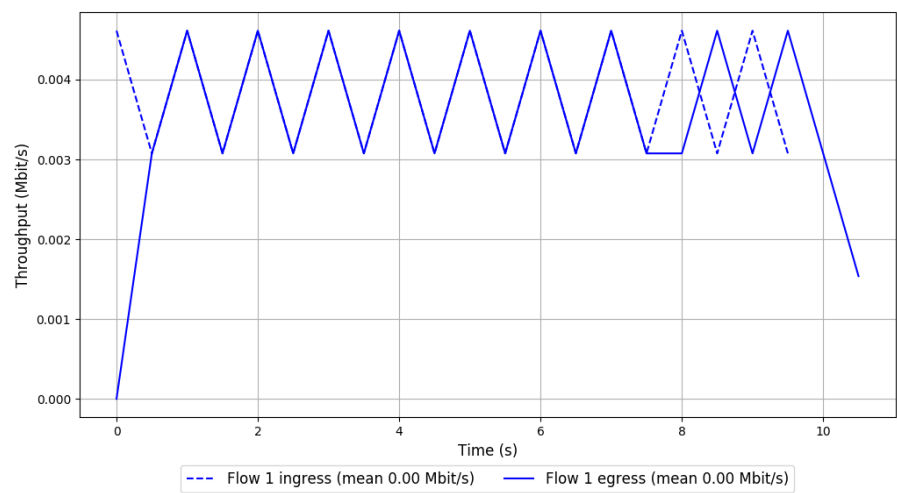
Start at: 2018-06-30 14:15:00

End at: 2018-06-30 14:15:30

Local clock offset: -0.388 ms

Remote clock offset: 0.39 ms

Run 10: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2018-06-30 10:50:09

End at: 2018-06-30 10:50:39

Local clock offset: 0.119 ms

Remote clock offset: 0.093 ms

Below is generated by plot.py at 2018-06-30 15:21:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 157.17 Mbit/s

95th percentile per-packet one-way delay: 136.690 ms

Loss rate: 0.00%

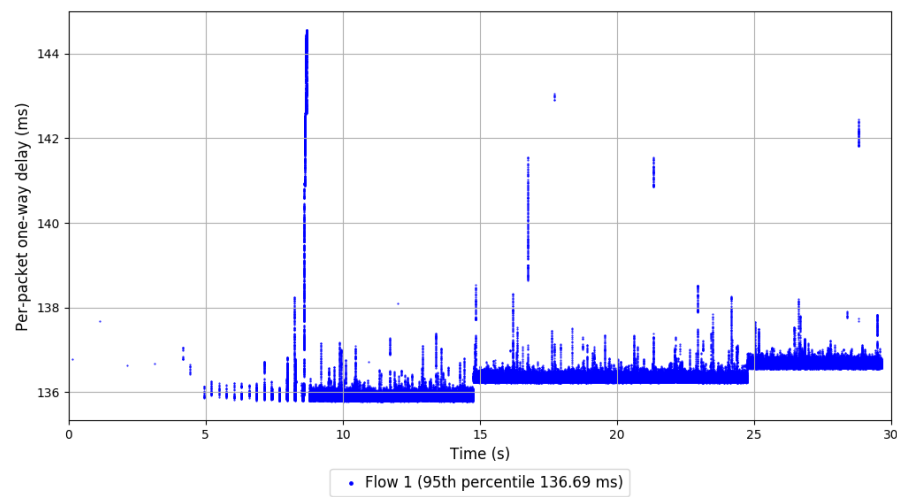
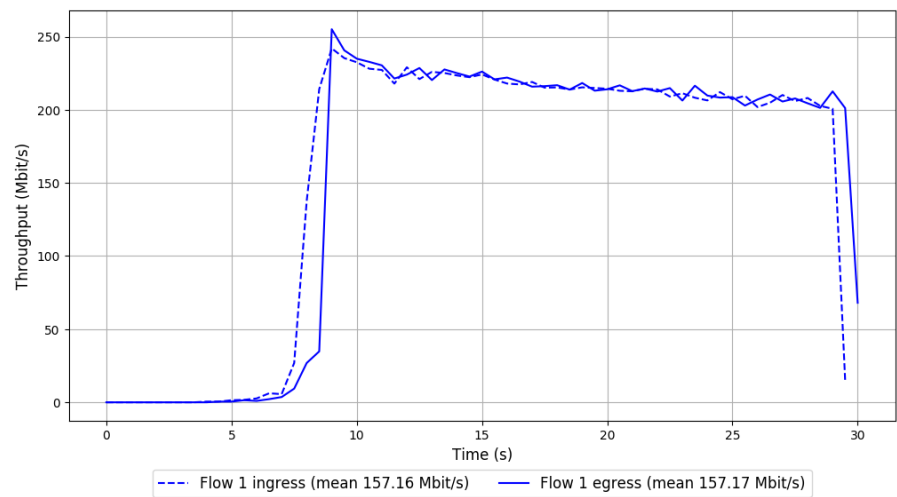
-- Flow 1:

Average throughput: 157.17 Mbit/s

95th percentile per-packet one-way delay: 136.690 ms

Loss rate: 0.00%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-06-30 11:12:29

End at: 2018-06-30 11:12:59

Local clock offset: 0.427 ms

Remote clock offset: 0.08 ms

Below is generated by plot.py at 2018-06-30 15:21:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.89 Mbit/s

95th percentile per-packet one-way delay: 136.576 ms

Loss rate: 0.00%

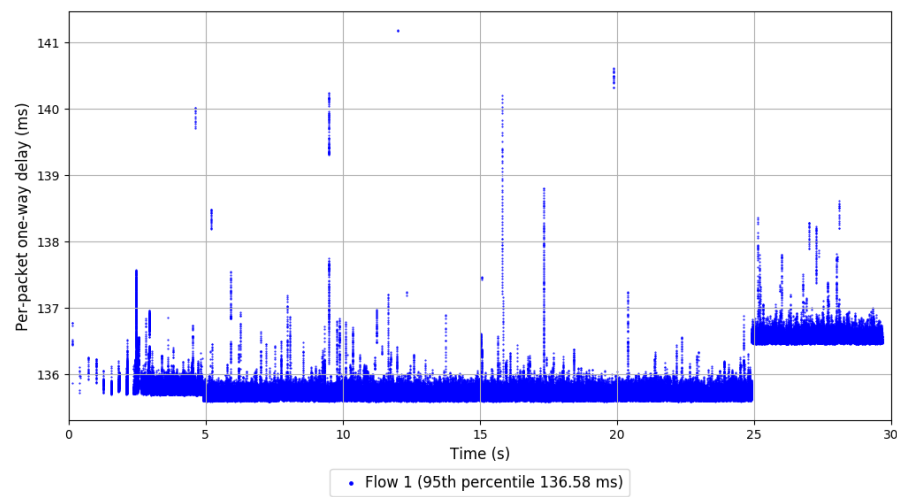
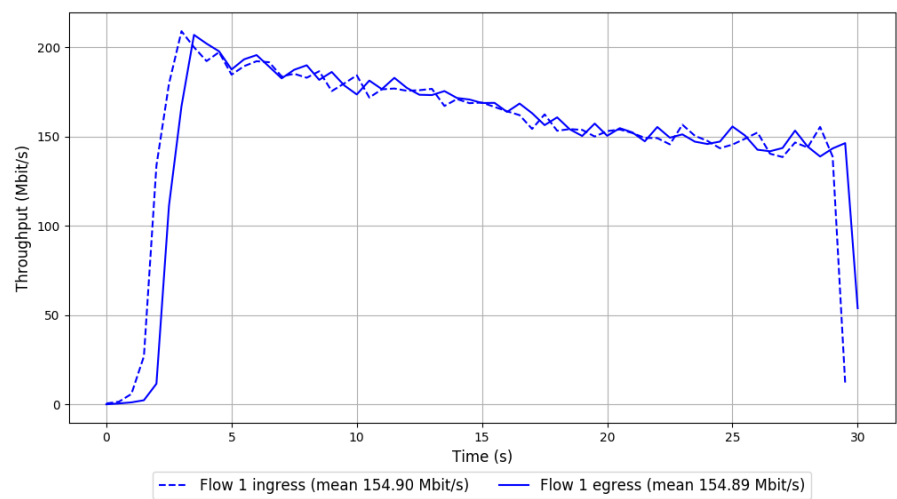
-- Flow 1:

Average throughput: 154.89 Mbit/s

95th percentile per-packet one-way delay: 136.576 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-06-30 11:35:04

End at: 2018-06-30 11:35:34

Local clock offset: 0.437 ms

Remote clock offset: 0.027 ms

Below is generated by plot.py at 2018-06-30 15:21:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 133.07 Mbit/s

95th percentile per-packet one-way delay: 135.595 ms

Loss rate: 0.00%

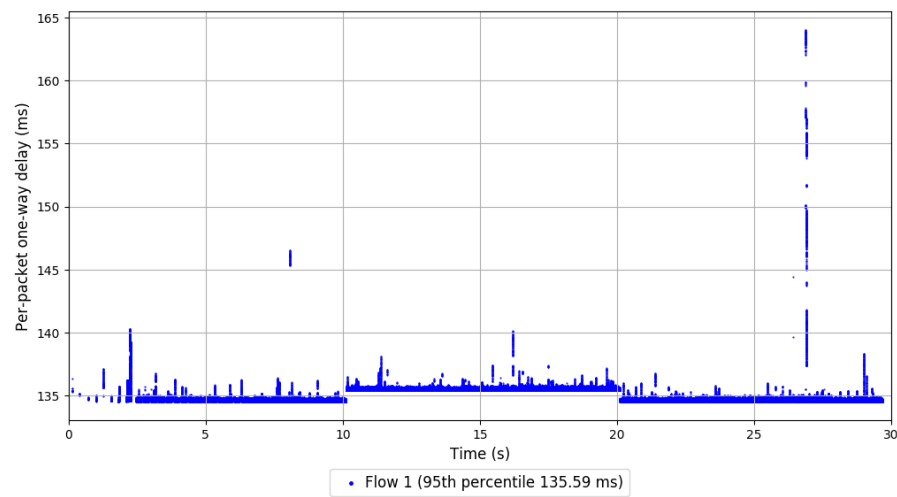
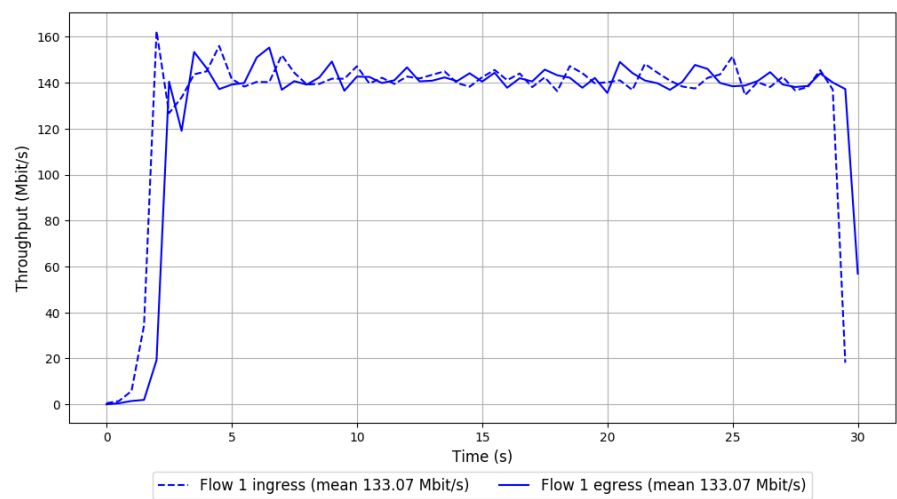
-- Flow 1:

Average throughput: 133.07 Mbit/s

95th percentile per-packet one-way delay: 135.595 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-06-30 11:57:32

End at: 2018-06-30 11:58:02

Local clock offset: 0.064 ms

Remote clock offset: 0.429 ms

Below is generated by plot.py at 2018-06-30 15:21:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 148.95 Mbit/s

95th percentile per-packet one-way delay: 136.203 ms

Loss rate: 0.00%

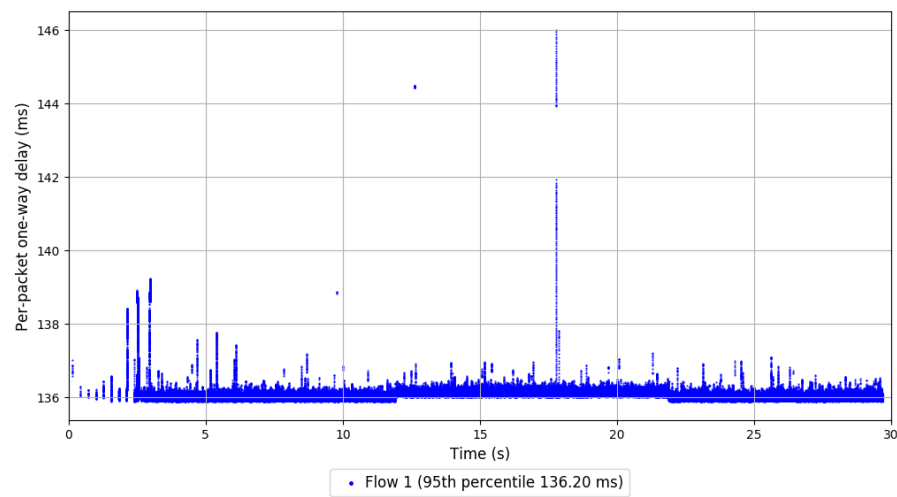
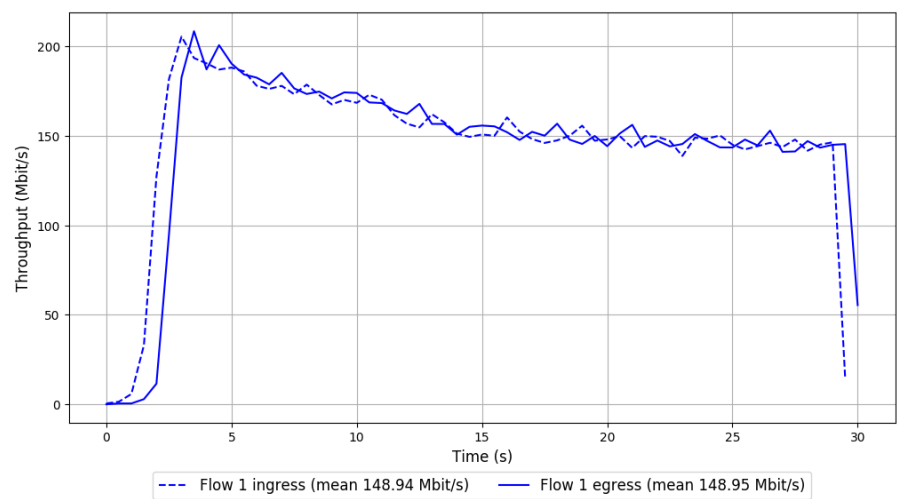
-- Flow 1:

Average throughput: 148.95 Mbit/s

95th percentile per-packet one-way delay: 136.203 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-06-30 12:20:28

End at: 2018-06-30 12:20:58

Local clock offset: 0.098 ms

Remote clock offset: -0.332 ms

Below is generated by plot.py at 2018-06-30 15:21:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 140.78 Mbit/s

95th percentile per-packet one-way delay: 136.142 ms

Loss rate: 0.00%

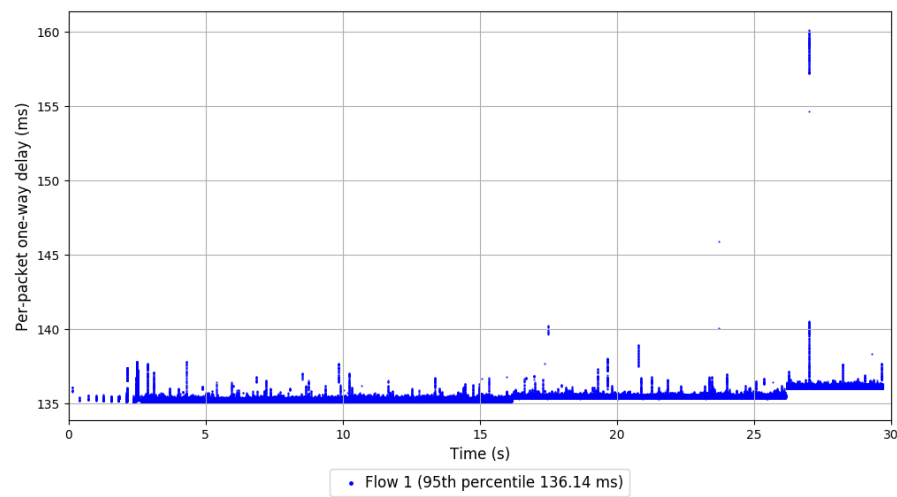
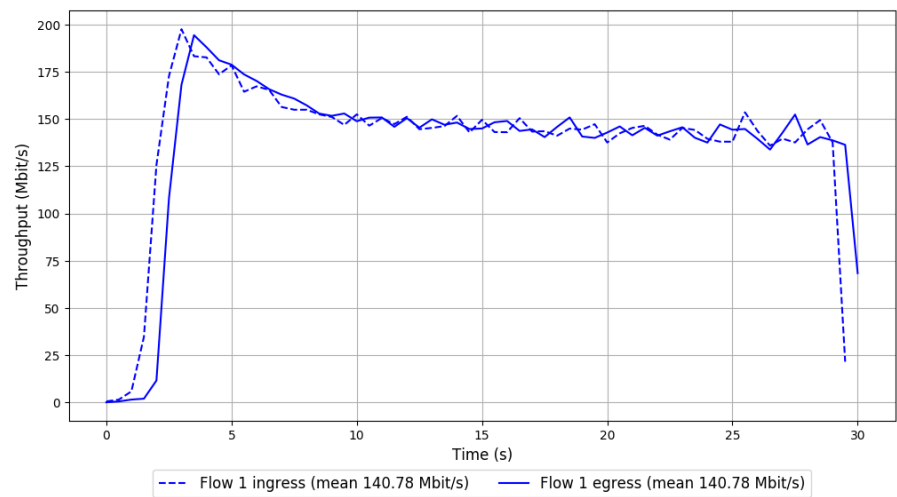
-- Flow 1:

Average throughput: 140.78 Mbit/s

95th percentile per-packet one-way delay: 136.142 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-06-30 12:42:44

End at: 2018-06-30 12:43:14

Local clock offset: 0.04 ms

Remote clock offset: -0.01 ms

Below is generated by plot.py at 2018-06-30 15:21:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 128.21 Mbit/s

95th percentile per-packet one-way delay: 136.661 ms

Loss rate: 0.00%

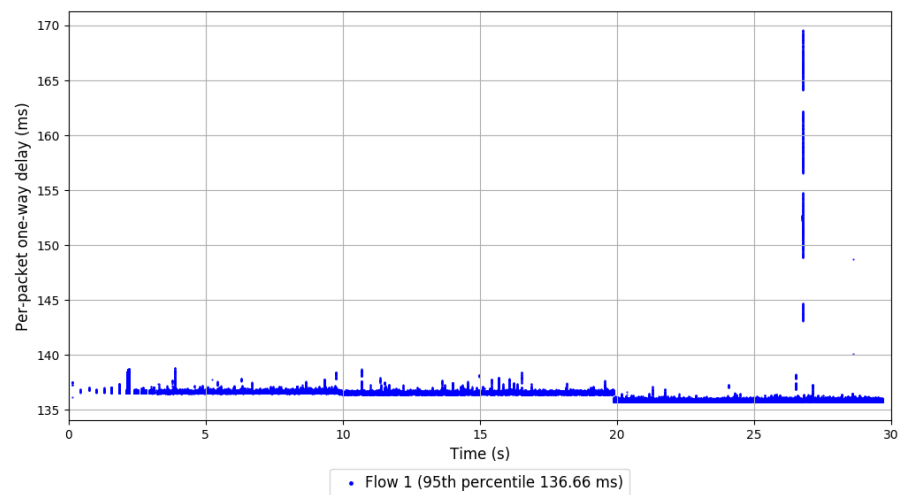
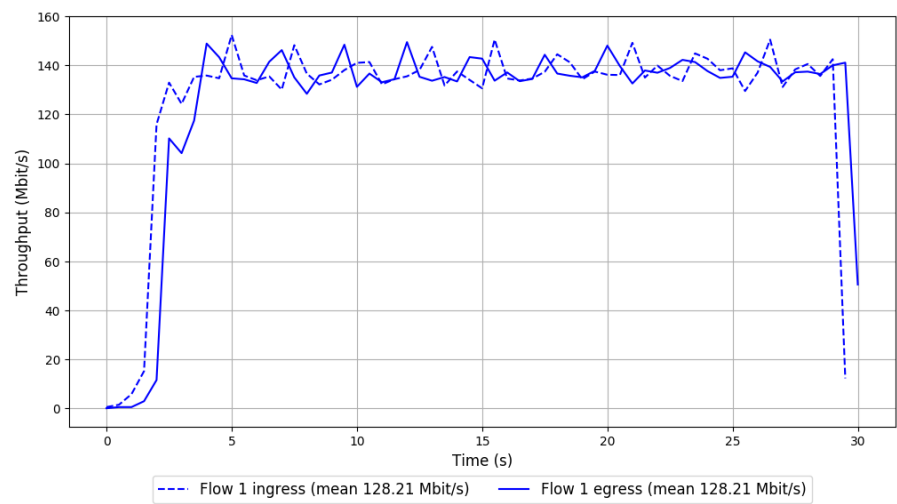
-- Flow 1:

Average throughput: 128.21 Mbit/s

95th percentile per-packet one-way delay: 136.661 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link

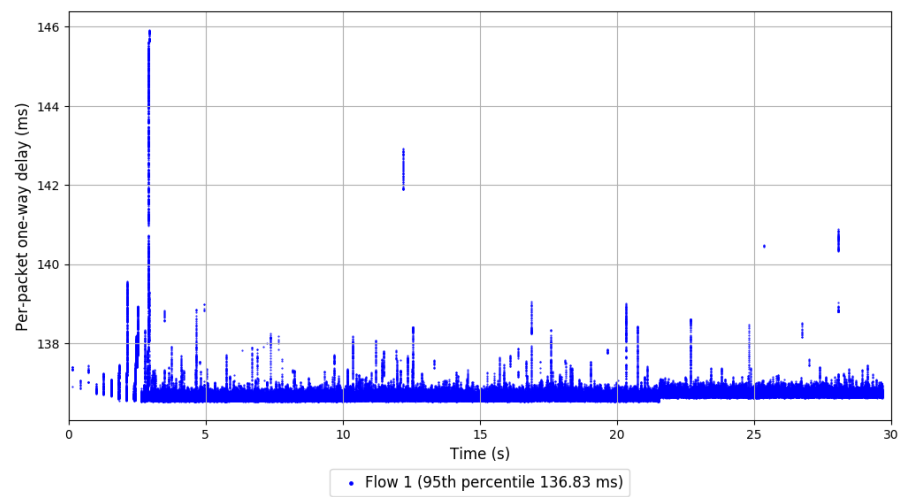
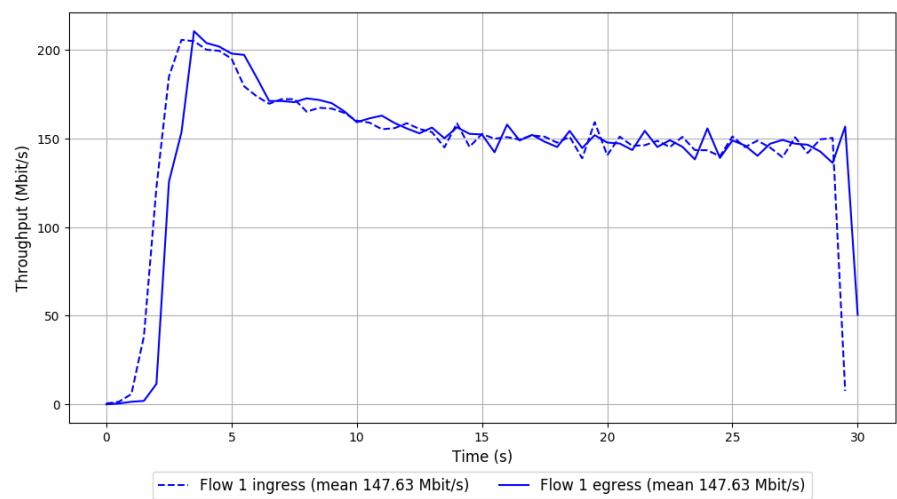


Run 7: Statistics of Indigo

Start at: 2018-06-30 13:04:43
End at: 2018-06-30 13:05:13
Local clock offset: -0.116 ms
Remote clock offset: -0.024 ms

Below is generated by plot.py at 2018-06-30 15:21:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 147.63 Mbit/s
95th percentile per-packet one-way delay: 136.832 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 147.63 Mbit/s
95th percentile per-packet one-way delay: 136.832 ms
Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-06-30 13:27:34

End at: 2018-06-30 13:28:04

Local clock offset: -0.228 ms

Remote clock offset: 0.467 ms

Below is generated by plot.py at 2018-06-30 15:21:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 166.94 Mbit/s

95th percentile per-packet one-way delay: 137.218 ms

Loss rate: 0.00%

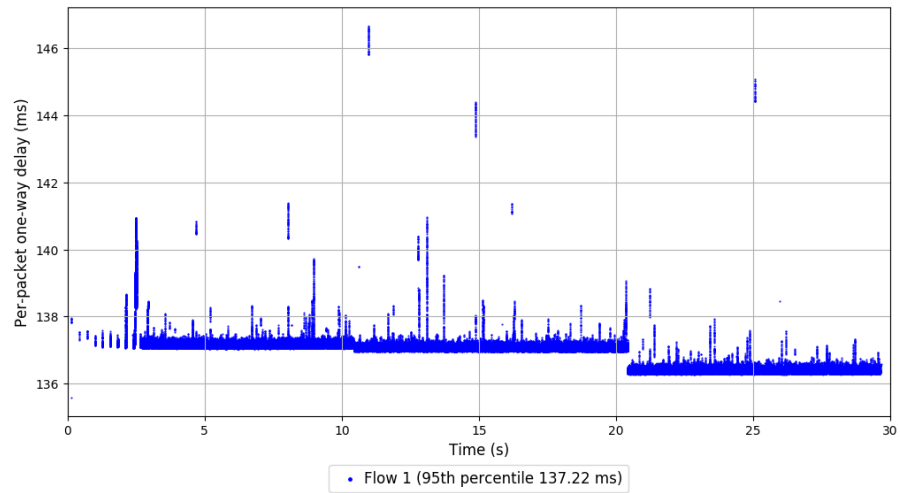
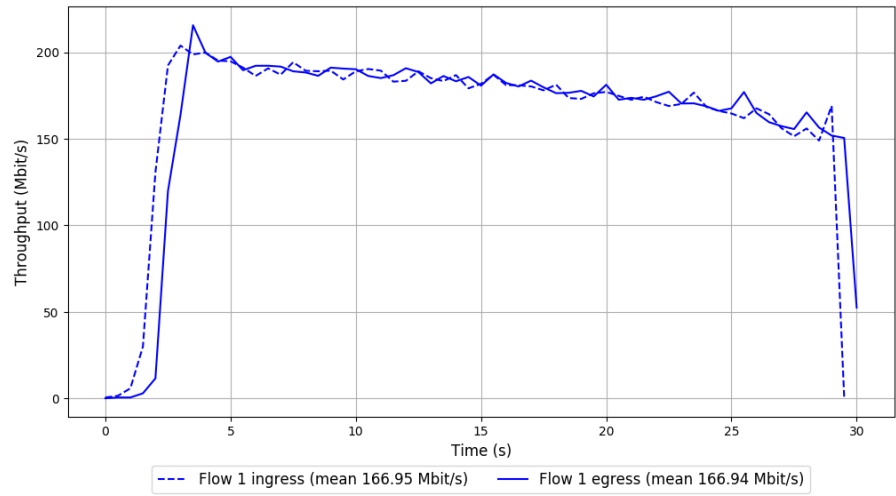
-- Flow 1:

Average throughput: 166.94 Mbit/s

95th percentile per-packet one-way delay: 137.218 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-06-30 13:49:32

End at: 2018-06-30 13:50:02

Local clock offset: -0.148 ms

Remote clock offset: 0.131 ms

Below is generated by plot.py at 2018-06-30 15:21:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 164.27 Mbit/s

95th percentile per-packet one-way delay: 136.663 ms

Loss rate: 0.00%

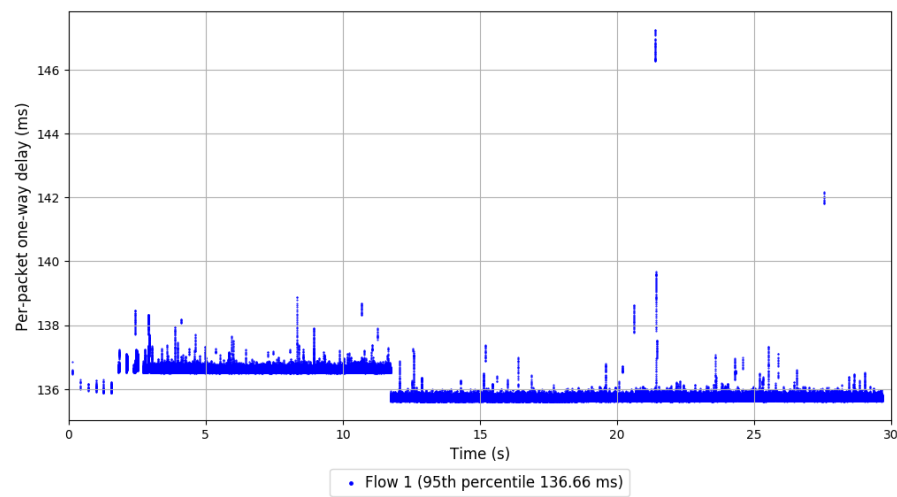
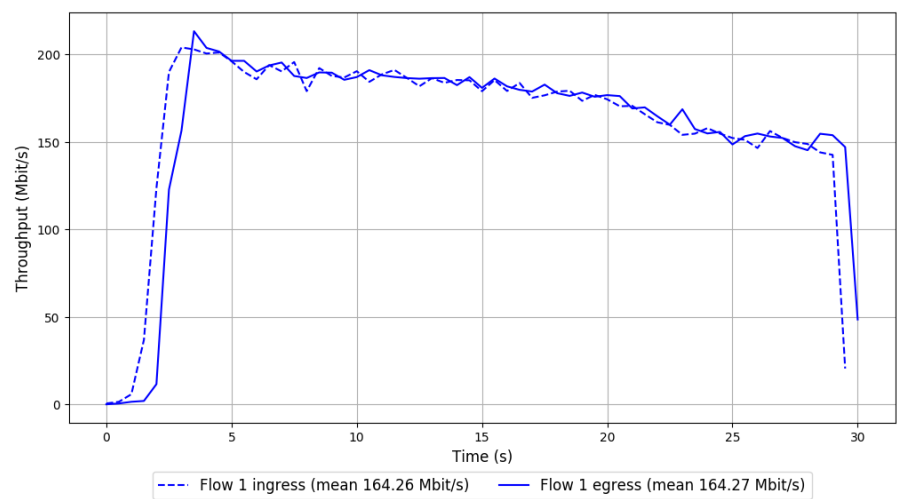
-- Flow 1:

Average throughput: 164.27 Mbit/s

95th percentile per-packet one-way delay: 136.663 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-06-30 14:12:05

End at: 2018-06-30 14:12:35

Local clock offset: -0.043 ms

Remote clock offset: 0.03 ms

Below is generated by plot.py at 2018-06-30 15:21:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.42 Mbit/s

95th percentile per-packet one-way delay: 135.809 ms

Loss rate: 0.00%

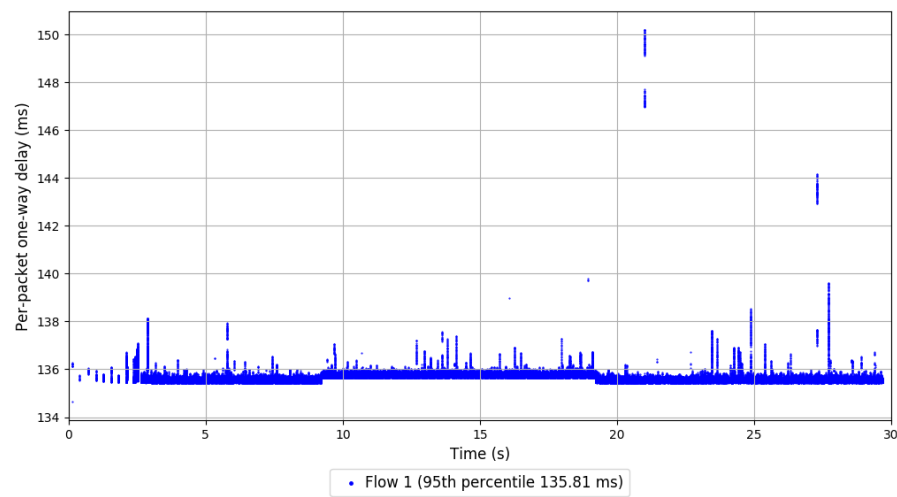
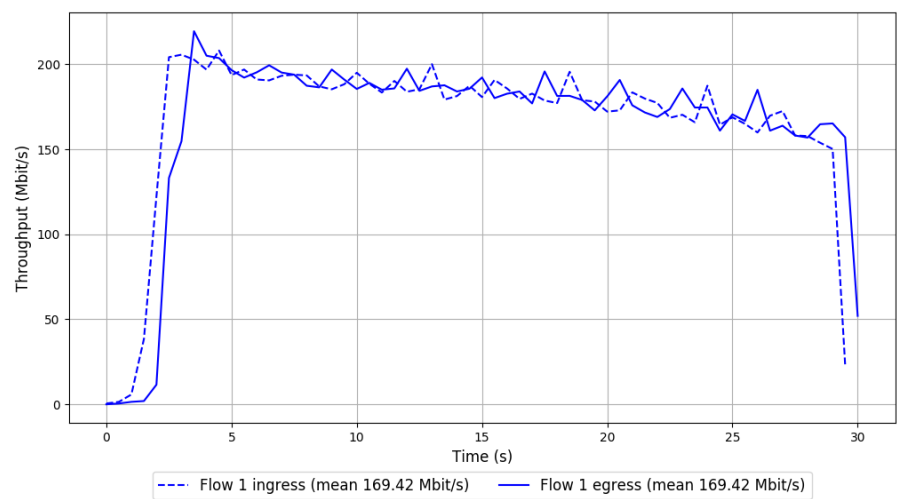
-- Flow 1:

Average throughput: 169.42 Mbit/s

95th percentile per-packet one-way delay: 135.809 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

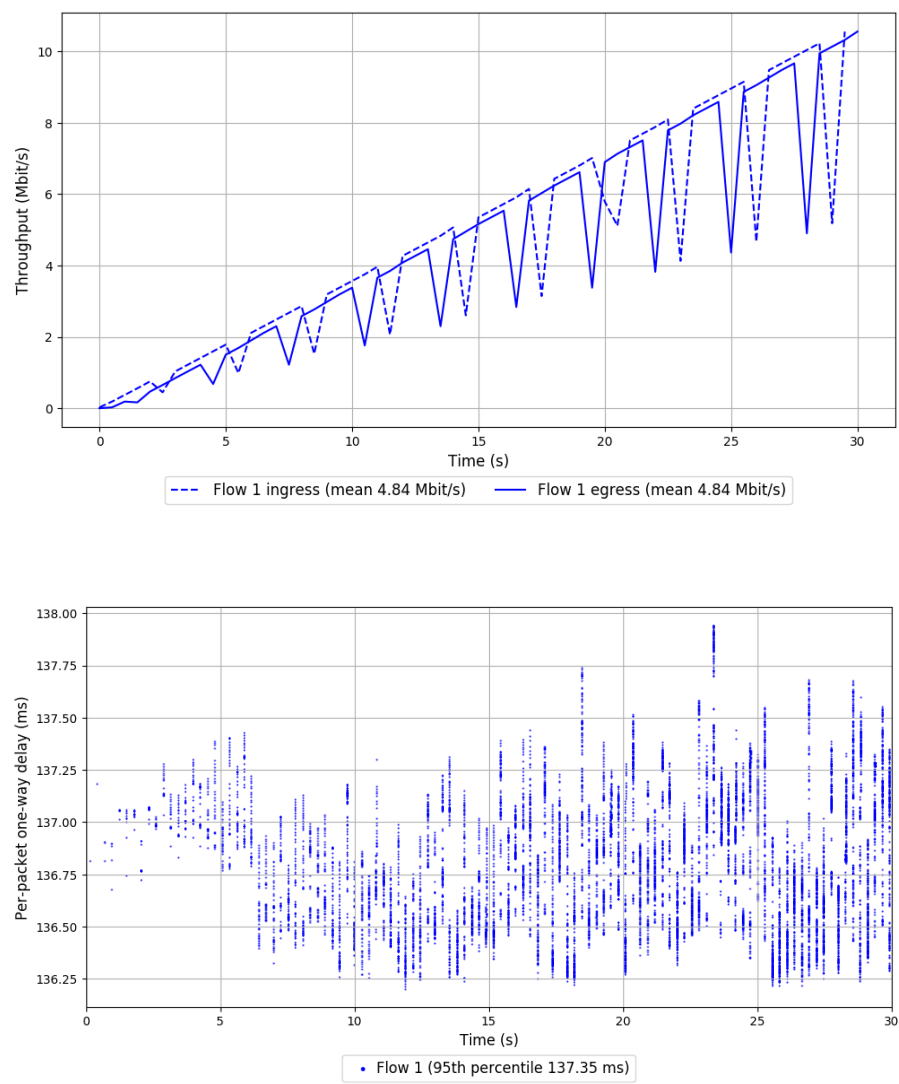


```
Run 1: Statistics of LEDBAT

Start at: 2018-06-30 10:58:08
End at: 2018-06-30 10:58:38
Local clock offset: 0.207 ms
Remote clock offset: 0.034 ms

# Below is generated by plot.py at 2018-06-30 15:21:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.84 Mbit/s
95th percentile per-packet one-way delay: 137.346 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.84 Mbit/s
95th percentile per-packet one-way delay: 137.346 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

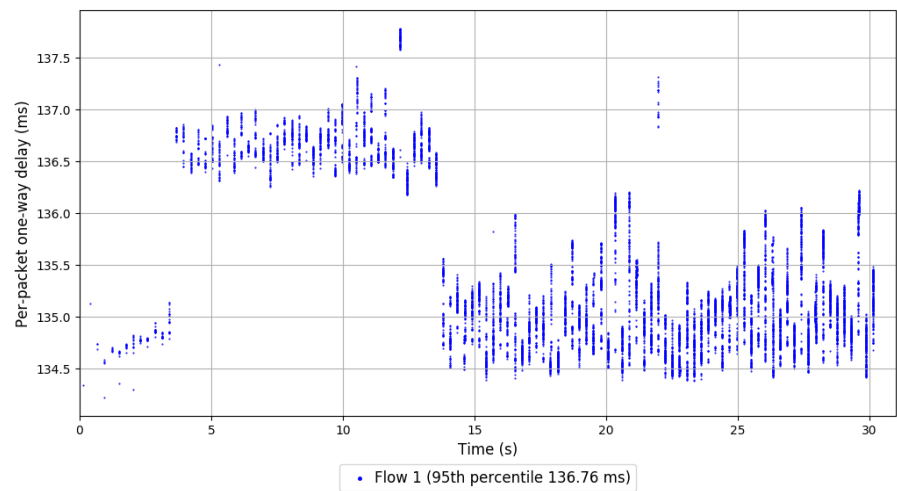
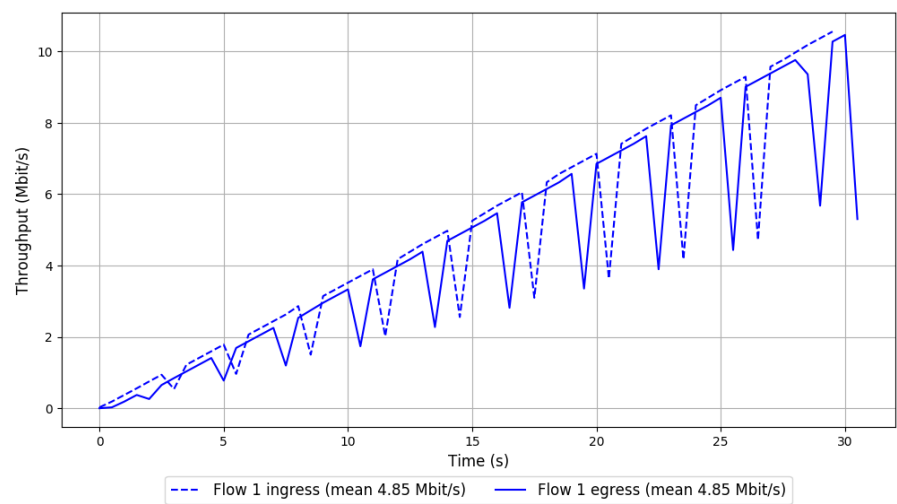


Run 2: Statistics of LEDBAT

Start at: 2018-06-30 11:20:31
End at: 2018-06-30 11:21:01
Local clock offset: 0.469 ms
Remote clock offset: -0.249 ms

Below is generated by plot.py at 2018-06-30 15:21:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.85 Mbit/s
95th percentile per-packet one-way delay: 136.764 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.85 Mbit/s
95th percentile per-packet one-way delay: 136.764 ms
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

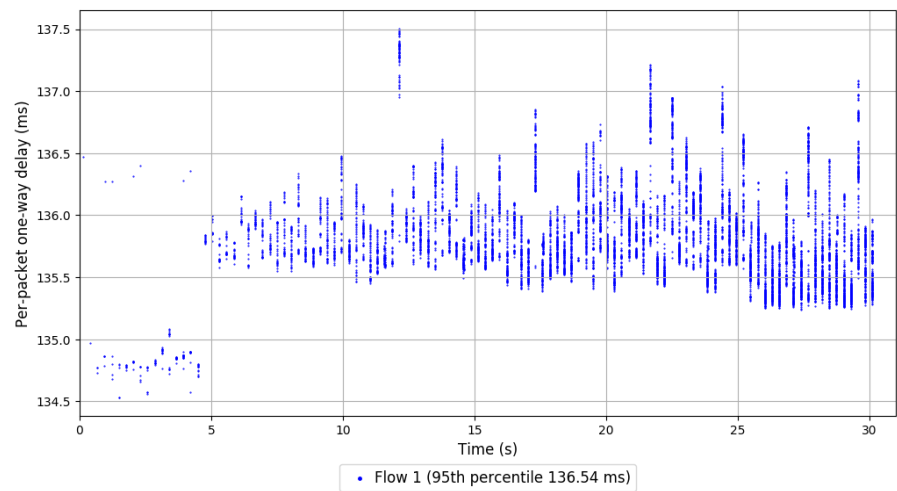
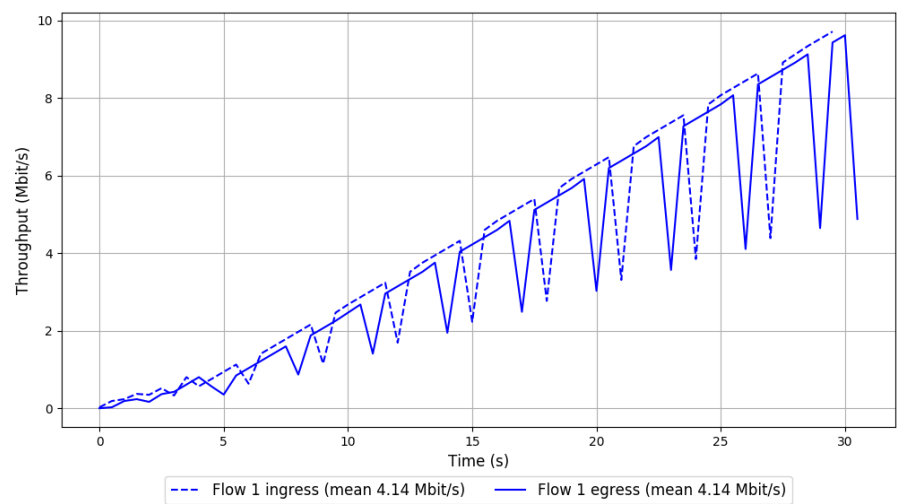


Run 3: Statistics of LEDBAT

Start at: 2018-06-30 11:43:00
End at: 2018-06-30 11:43:30
Local clock offset: 0.118 ms
Remote clock offset: -0.275 ms

Below is generated by plot.py at 2018-06-30 15:21:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.14 Mbit/s
95th percentile per-packet one-way delay: 136.536 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.14 Mbit/s
95th percentile per-packet one-way delay: 136.536 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-06-30 12:05:49

End at: 2018-06-30 12:06:19

Local clock offset: 0.043 ms

Remote clock offset: 0.057 ms

Below is generated by plot.py at 2018-06-30 15:21:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.83 Mbit/s

95th percentile per-packet one-way delay: 137.465 ms

Loss rate: 0.00%

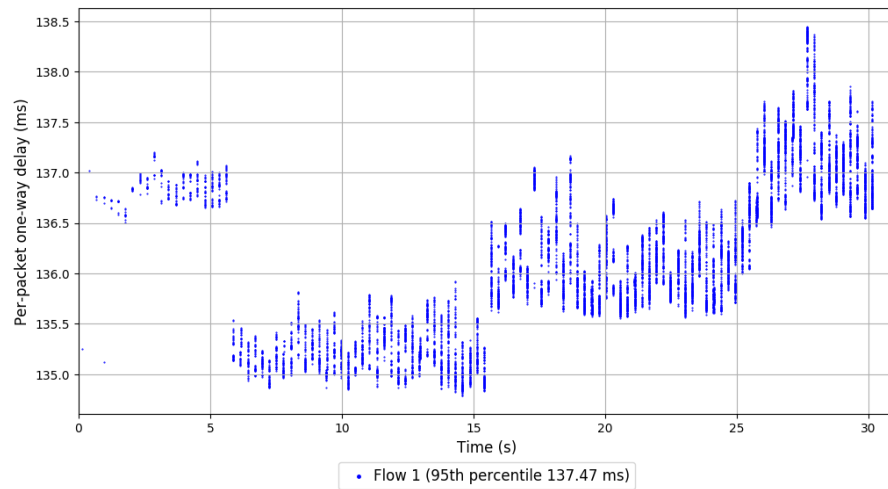
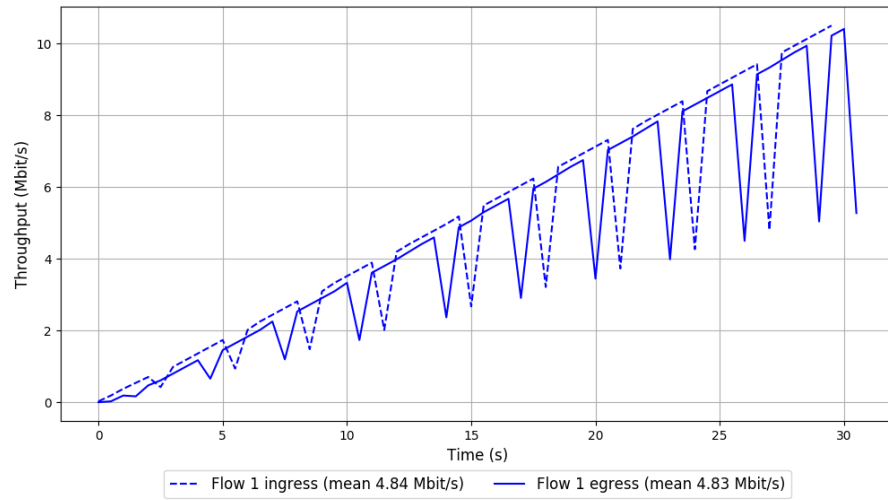
-- Flow 1:

Average throughput: 4.83 Mbit/s

95th percentile per-packet one-way delay: 137.465 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-06-30 12:28:27

End at: 2018-06-30 12:28:57

Local clock offset: -0.094 ms

Remote clock offset: 0.058 ms

Below is generated by plot.py at 2018-06-30 15:21:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.88 Mbit/s

95th percentile per-packet one-way delay: 137.550 ms

Loss rate: 0.00%

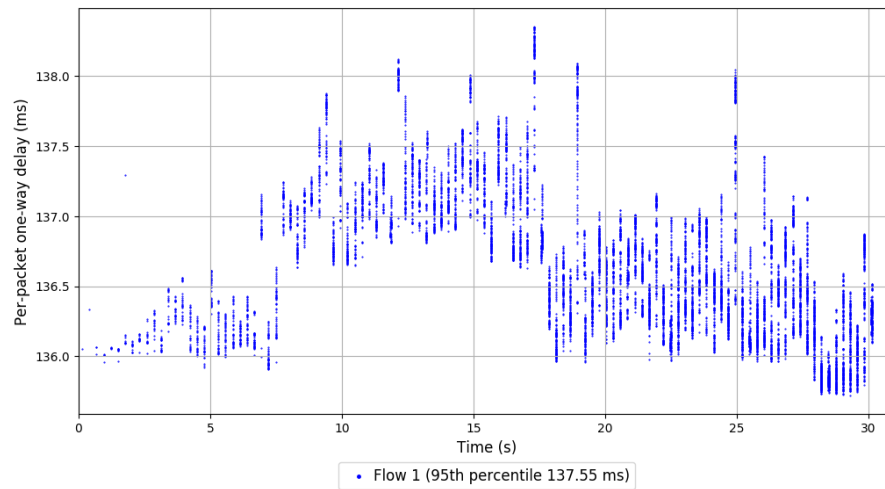
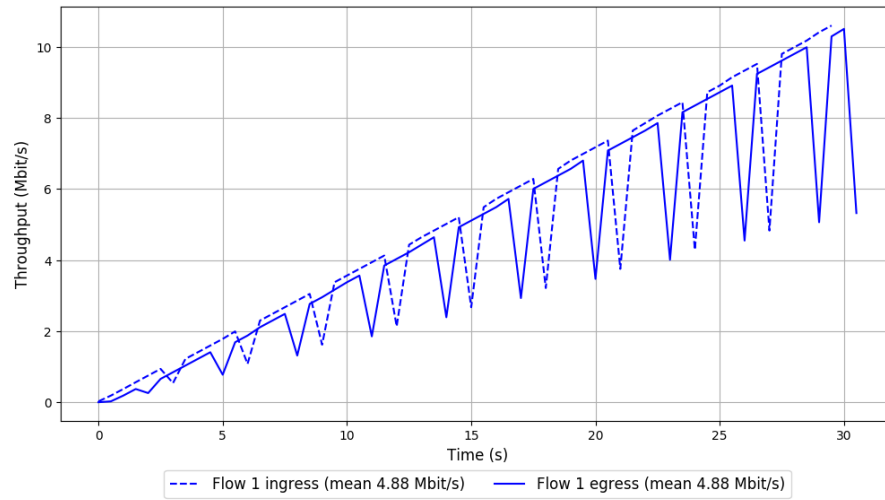
-- Flow 1:

Average throughput: 4.88 Mbit/s

95th percentile per-packet one-way delay: 137.550 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-06-30 12:50:53

End at: 2018-06-30 12:51:23

Local clock offset: -0.177 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2018-06-30 15:21:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.82 Mbit/s

95th percentile per-packet one-way delay: 137.811 ms

Loss rate: 0.00%

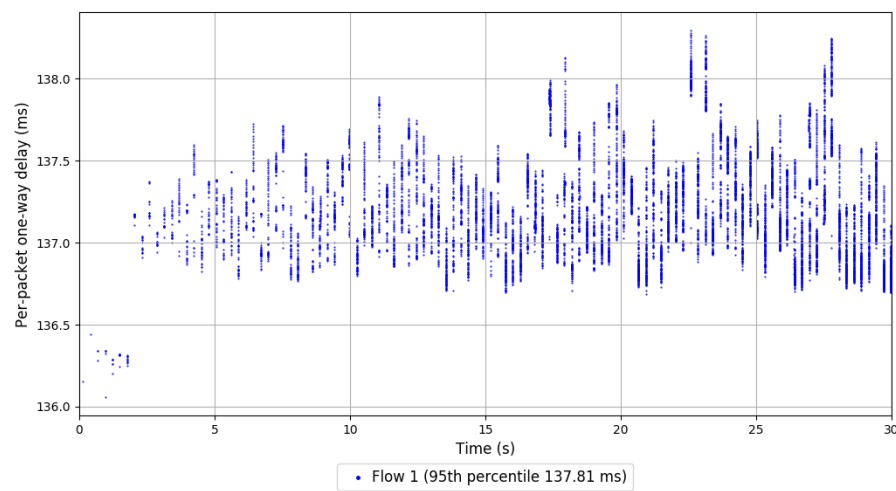
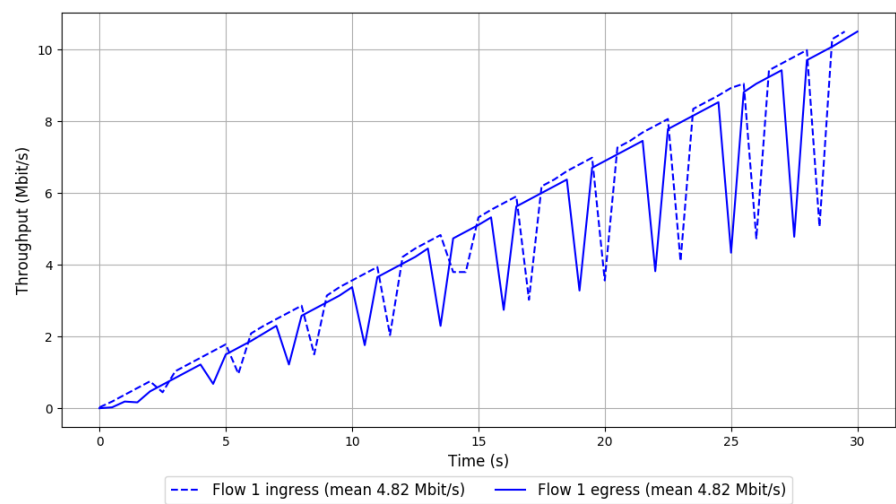
-- Flow 1:

Average throughput: 4.82 Mbit/s

95th percentile per-packet one-way delay: 137.811 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-06-30 13:12:54

End at: 2018-06-30 13:13:24

Local clock offset: -0.06 ms

Remote clock offset: 0.035 ms

Below is generated by plot.py at 2018-06-30 15:21:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.82 Mbit/s

95th percentile per-packet one-way delay: 137.838 ms

Loss rate: 0.00%

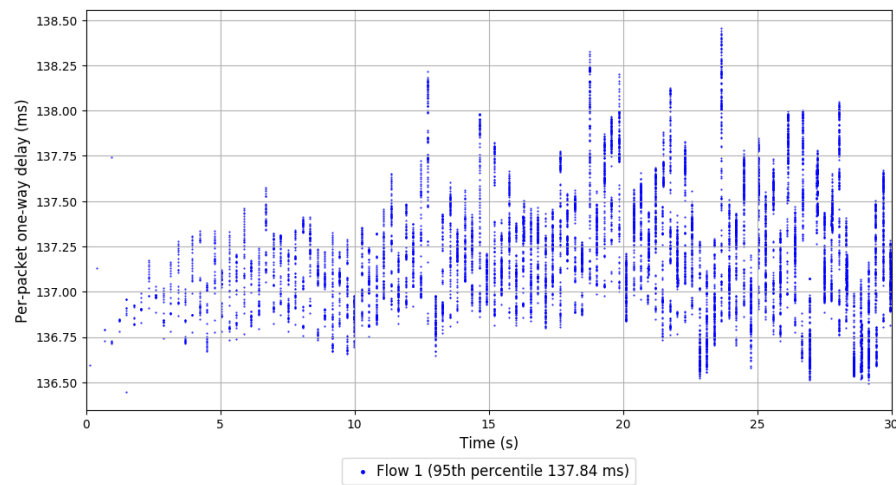
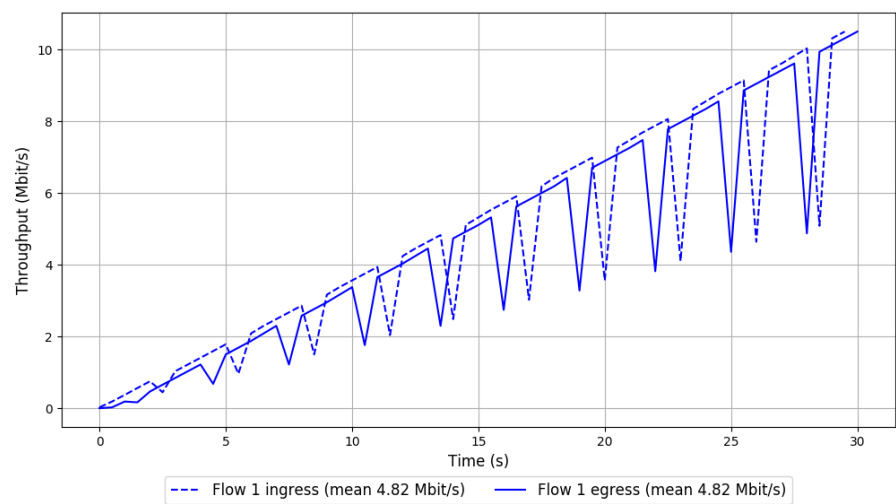
-- Flow 1:

Average throughput: 4.82 Mbit/s

95th percentile per-packet one-way delay: 137.838 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-06-30 13:35:24

End at: 2018-06-30 13:35:54

Local clock offset: -0.064 ms

Remote clock offset: 0.153 ms

Below is generated by plot.py at 2018-06-30 15:21:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 137.254 ms

Loss rate: 0.00%

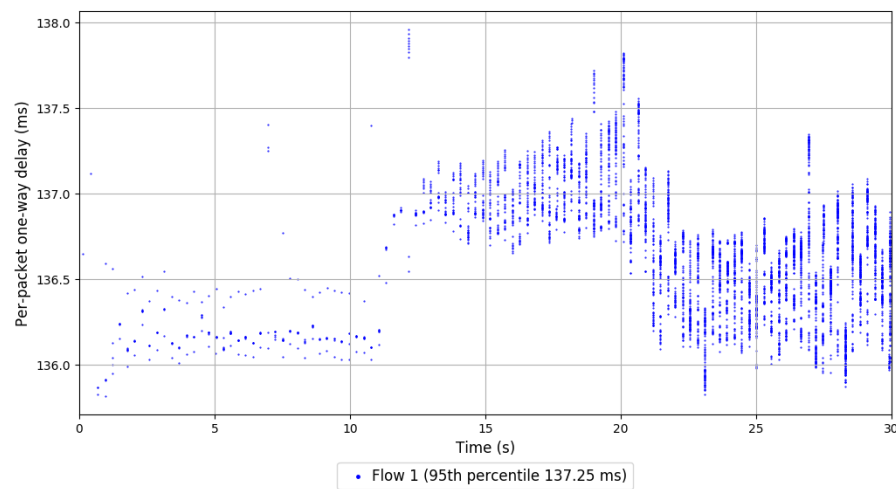
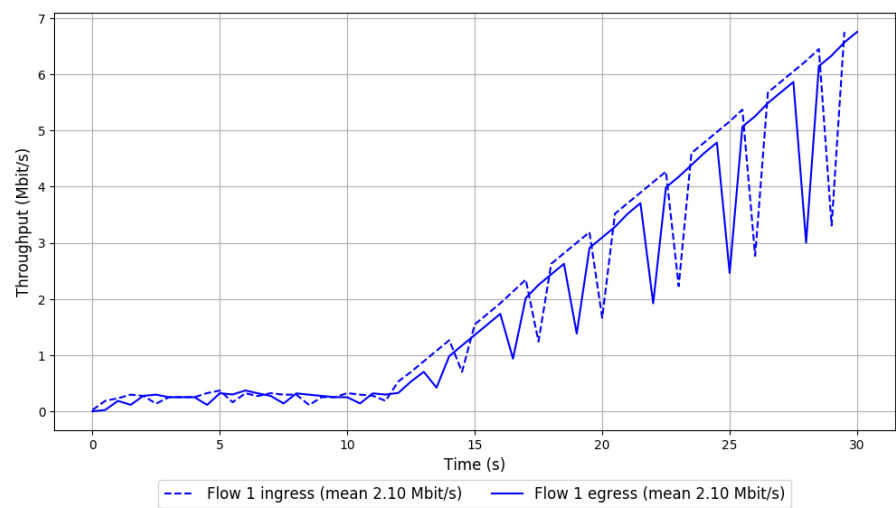
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 137.254 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-06-30 13:57:52

End at: 2018-06-30 13:58:22

Local clock offset: -0.069 ms

Remote clock offset: 0.426 ms

Below is generated by plot.py at 2018-06-30 15:21:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.84 Mbit/s

95th percentile per-packet one-way delay: 137.170 ms

Loss rate: 0.00%

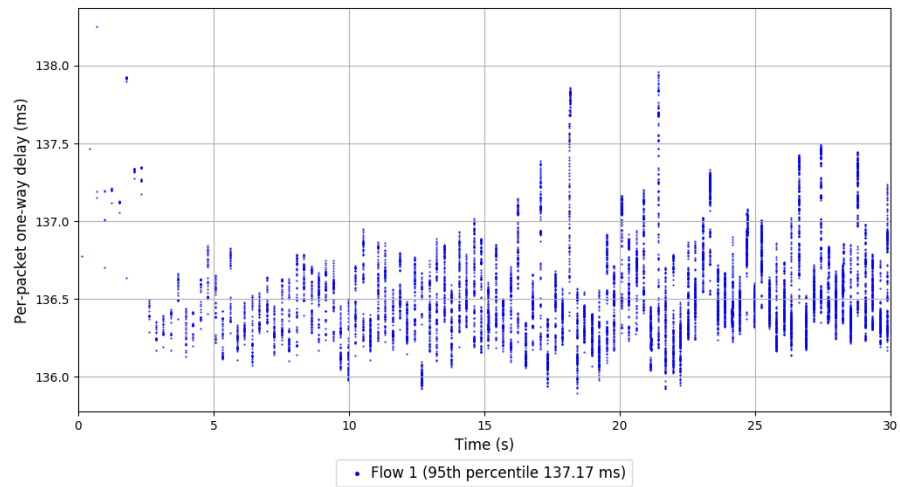
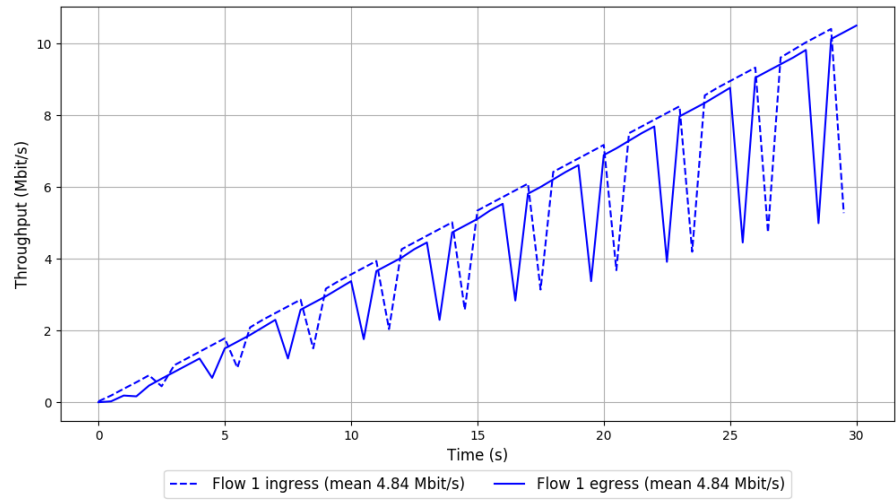
-- Flow 1:

Average throughput: 4.84 Mbit/s

95th percentile per-packet one-way delay: 137.170 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-06-30 14:20:12

End at: 2018-06-30 14:20:42

Local clock offset: -0.198 ms

Remote clock offset: 0.377 ms

Below is generated by plot.py at 2018-06-30 15:21:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.75 Mbit/s

95th percentile per-packet one-way delay: 137.833 ms

Loss rate: 0.00%

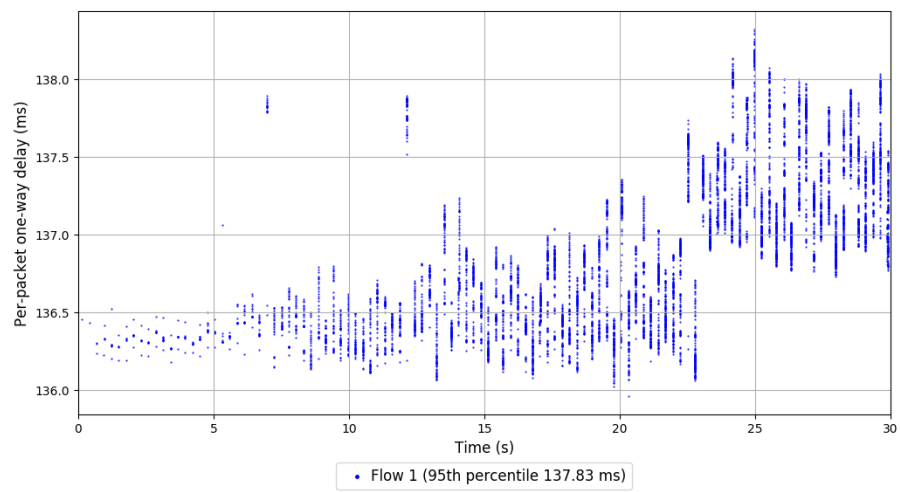
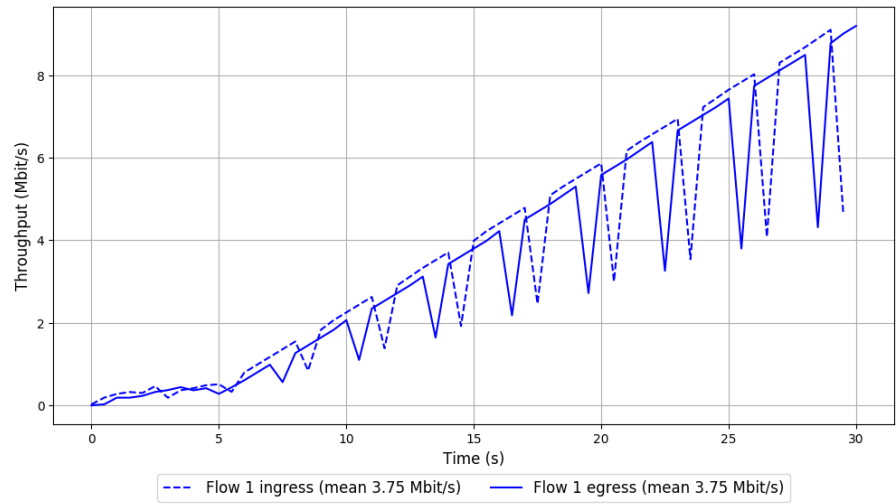
-- Flow 1:

Average throughput: 3.75 Mbit/s

95th percentile per-packet one-way delay: 137.833 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

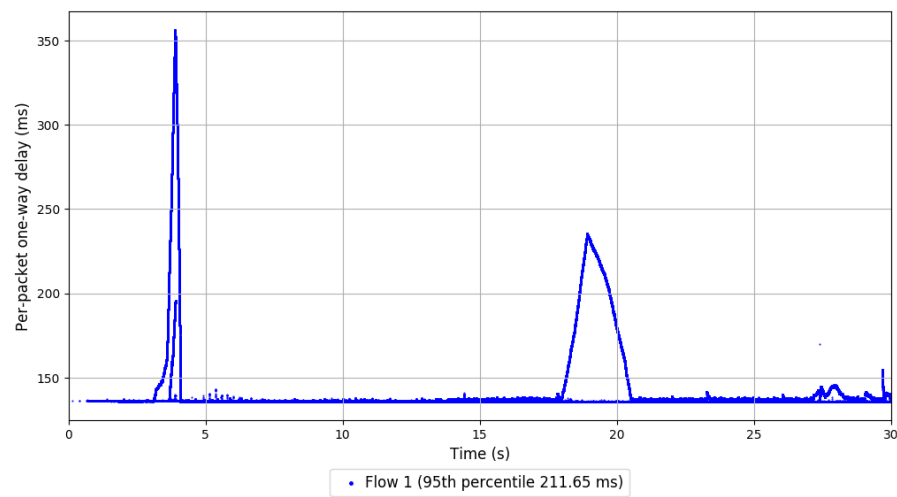
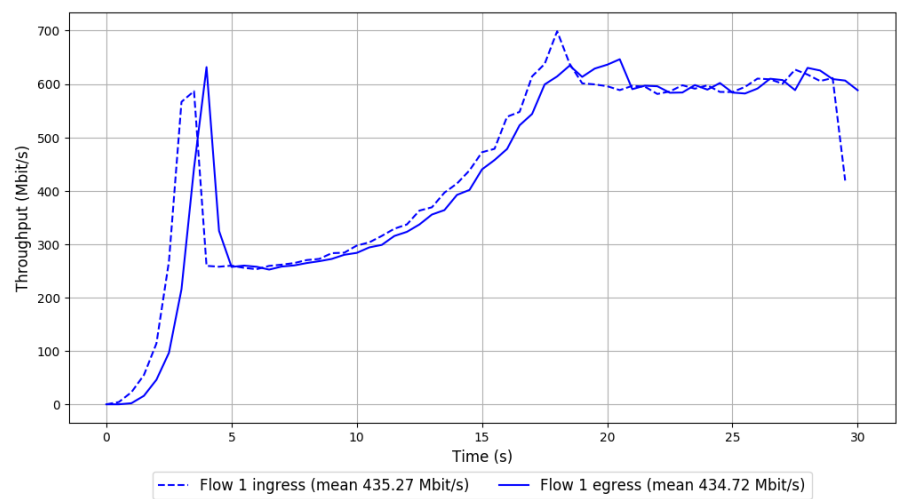


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-06-30 11:08:01
End at: 2018-06-30 11:08:31
Local clock offset: 0.551 ms
Remote clock offset: 0.437 ms

# Below is generated by plot.py at 2018-06-30 15:21:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 434.72 Mbit/s
95th percentile per-packet one-way delay: 211.649 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 434.72 Mbit/s
95th percentile per-packet one-way delay: 211.649 ms
Loss rate: 0.12%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-06-30 11:30:27

End at: 2018-06-30 11:30:57

Local clock offset: 0.364 ms

Remote clock offset: 0.078 ms

Below is generated by plot.py at 2018-06-30 15:21:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 508.84 Mbit/s

95th percentile per-packet one-way delay: 212.836 ms

Loss rate: 0.43%

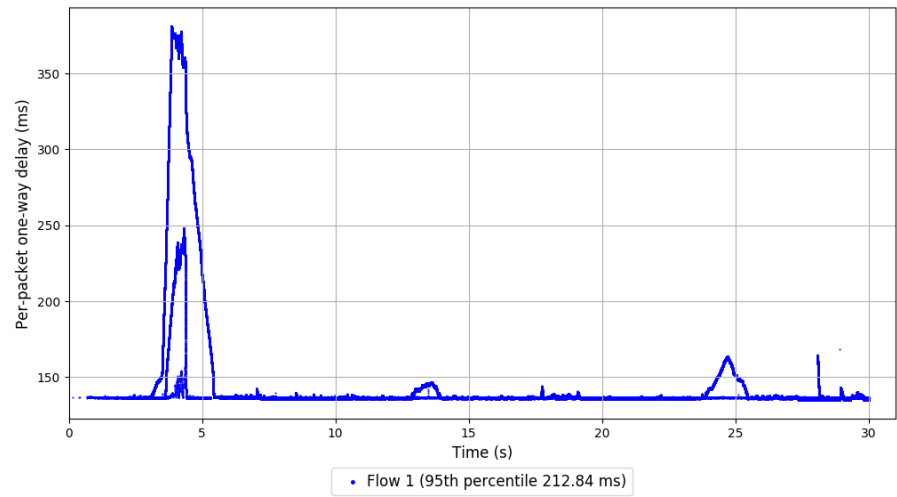
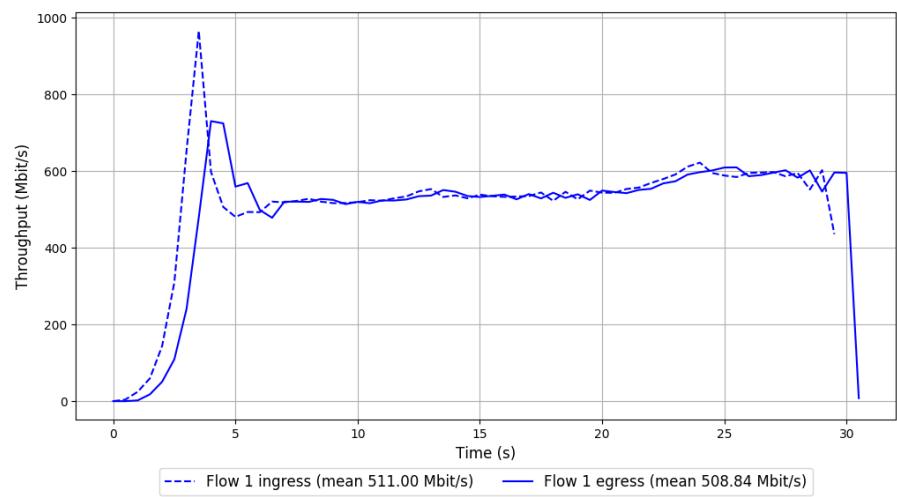
-- Flow 1:

Average throughput: 508.84 Mbit/s

95th percentile per-packet one-way delay: 212.836 ms

Loss rate: 0.43%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-06-30 11:52:58

End at: 2018-06-30 11:53:28

Local clock offset: 0.153 ms

Remote clock offset: 0.086 ms

Below is generated by plot.py at 2018-06-30 15:21:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 532.96 Mbit/s

95th percentile per-packet one-way delay: 270.568 ms

Loss rate: 1.88%

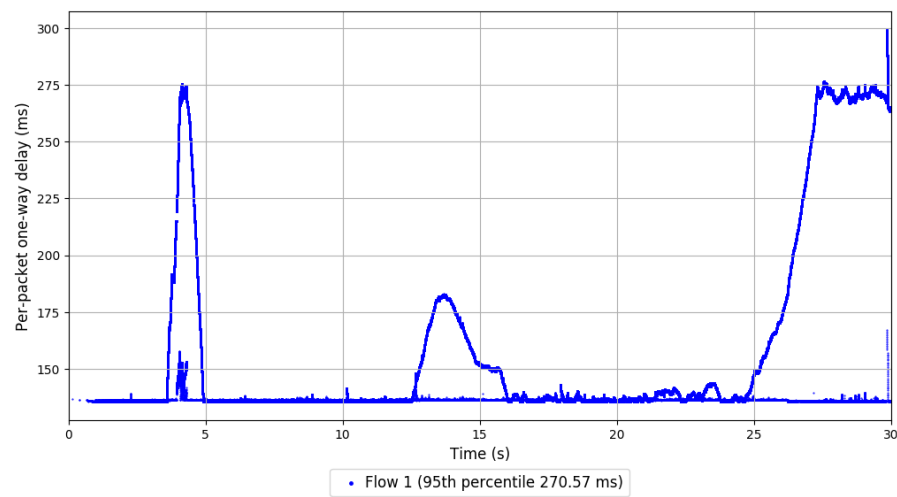
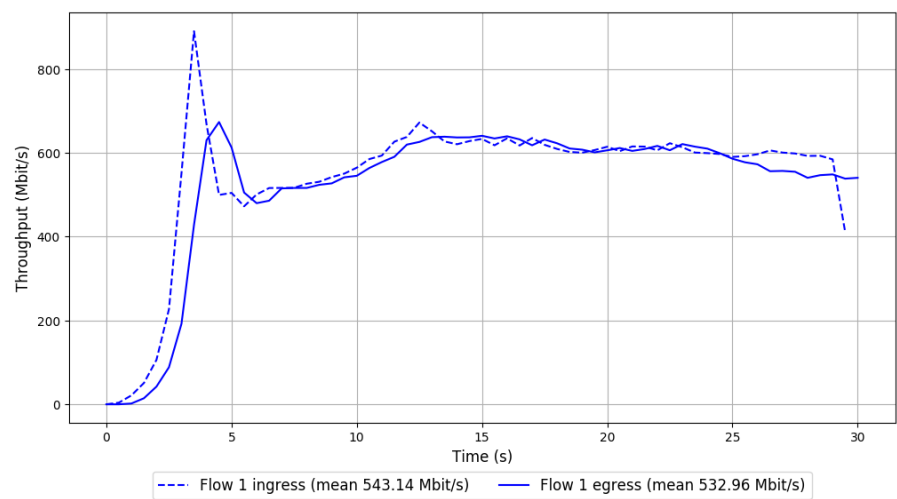
-- Flow 1:

Average throughput: 532.96 Mbit/s

95th percentile per-packet one-way delay: 270.568 ms

Loss rate: 1.88%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-06-30 12:15:53

End at: 2018-06-30 12:16:23

Local clock offset: 0.012 ms

Remote clock offset: 0.052 ms

Below is generated by plot.py at 2018-06-30 15:21:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 509.41 Mbit/s

95th percentile per-packet one-way delay: 244.366 ms

Loss rate: 1.17%

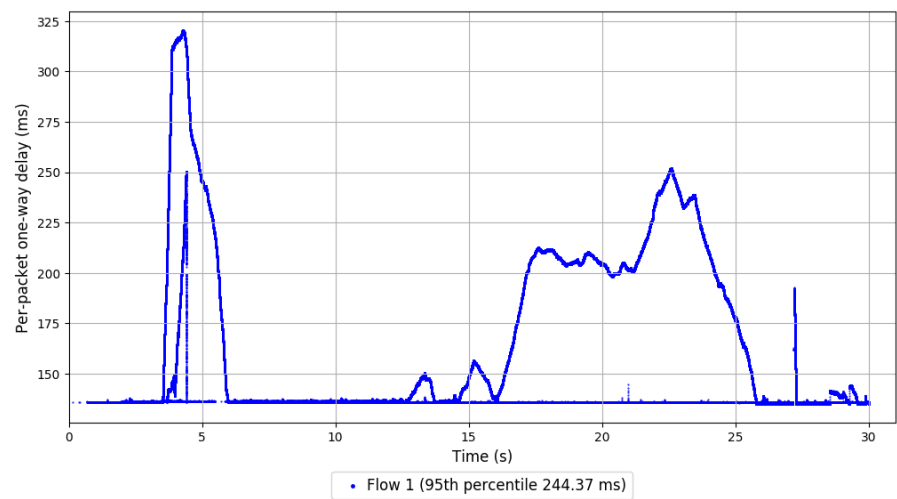
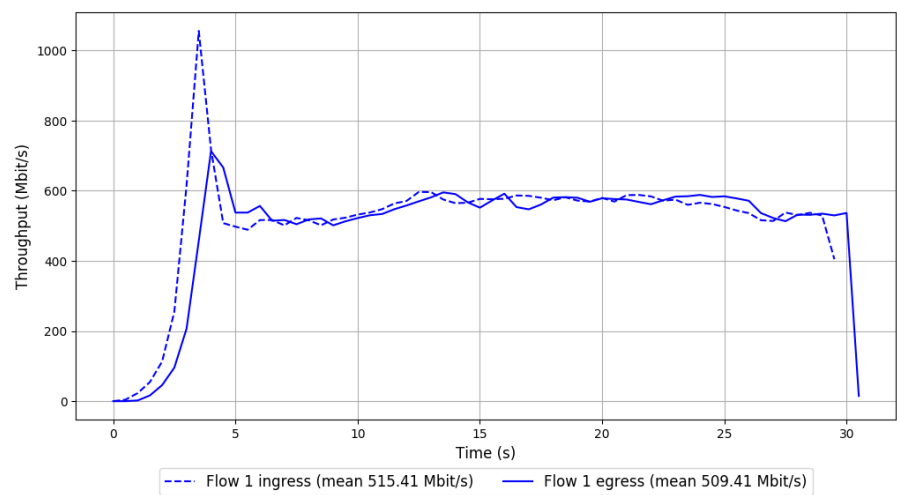
-- Flow 1:

Average throughput: 509.41 Mbit/s

95th percentile per-packet one-way delay: 244.366 ms

Loss rate: 1.17%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-06-30 12:38:11

End at: 2018-06-30 12:38:41

Local clock offset: 0.138 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2018-06-30 15:21:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 508.21 Mbit/s

95th percentile per-packet one-way delay: 271.161 ms

Loss rate: 0.72%

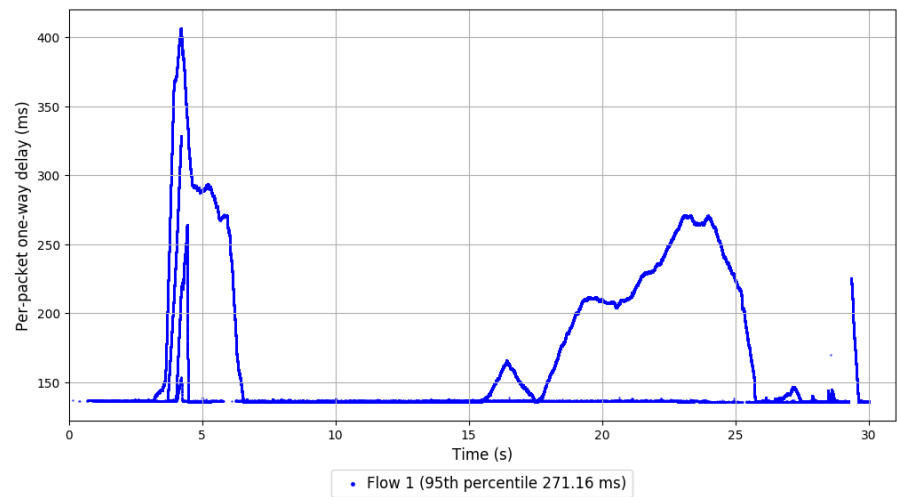
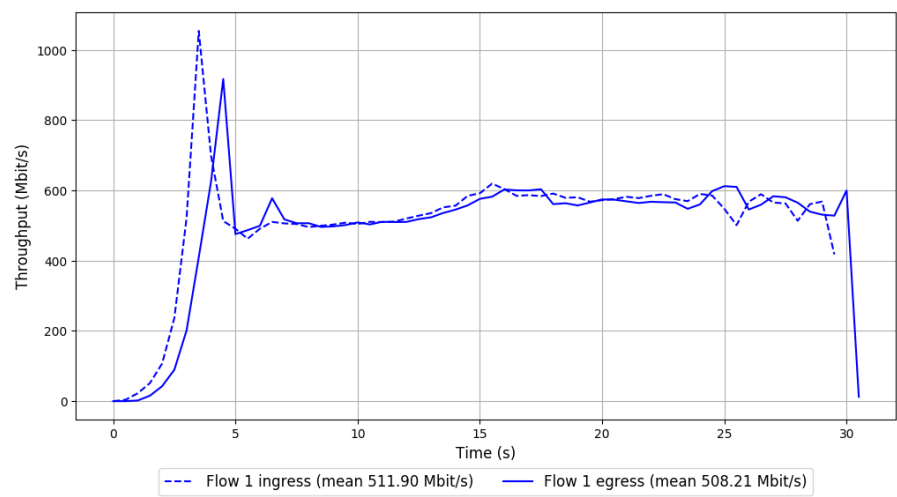
-- Flow 1:

Average throughput: 508.21 Mbit/s

95th percentile per-packet one-way delay: 271.161 ms

Loss rate: 0.72%

Run 5: Report of PCC-Allegro — Data Link

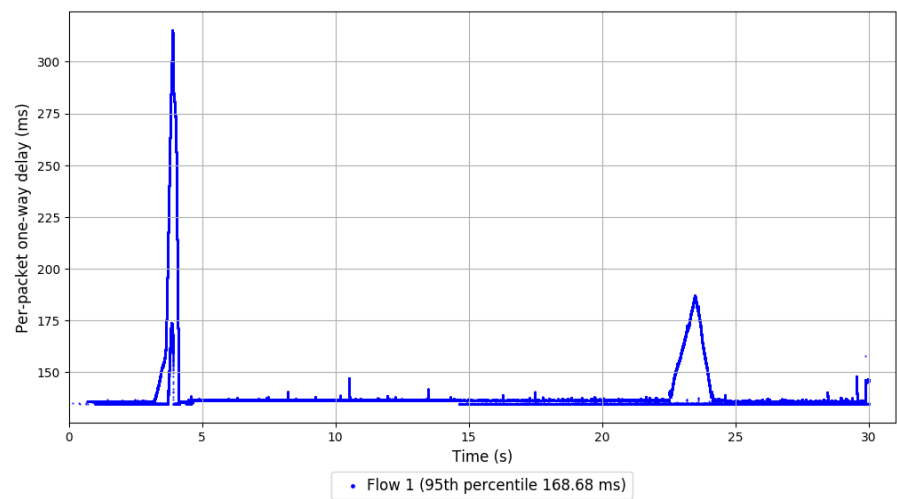
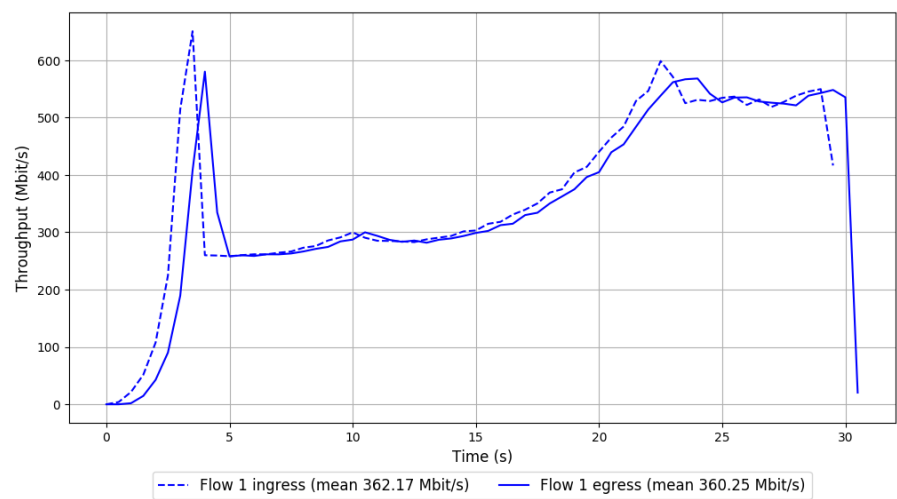


Run 6: Statistics of PCC-Allegro

Start at: 2018-06-30 13:00:50
End at: 2018-06-30 13:01:20
Local clock offset: -0.192 ms
Remote clock offset: -0.362 ms

Below is generated by plot.py at 2018-06-30 15:21:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 360.25 Mbit/s
95th percentile per-packet one-way delay: 168.681 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 360.25 Mbit/s
95th percentile per-packet one-way delay: 168.681 ms
Loss rate: 0.53%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-06-30 13:23:02

End at: 2018-06-30 13:23:32

Local clock offset: -0.108 ms

Remote clock offset: 0.114 ms

Below is generated by plot.py at 2018-06-30 15:22:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 500.46 Mbit/s

95th percentile per-packet one-way delay: 280.083 ms

Loss rate: 2.48%

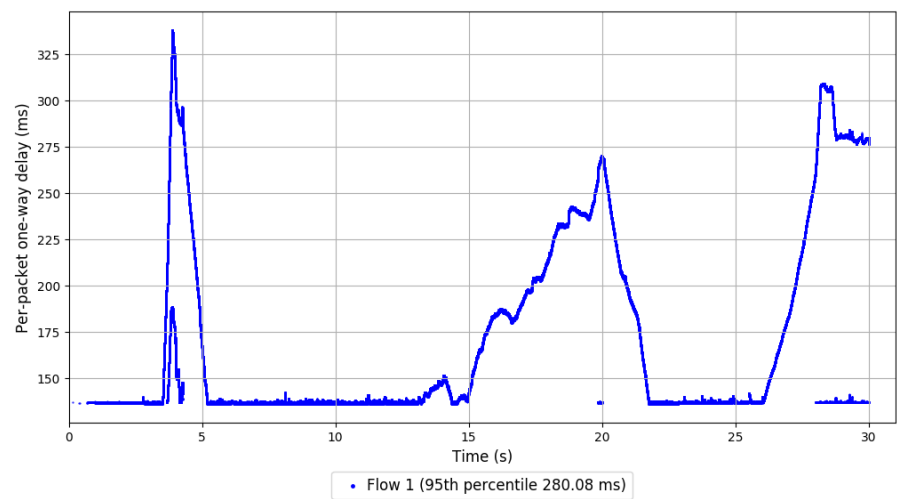
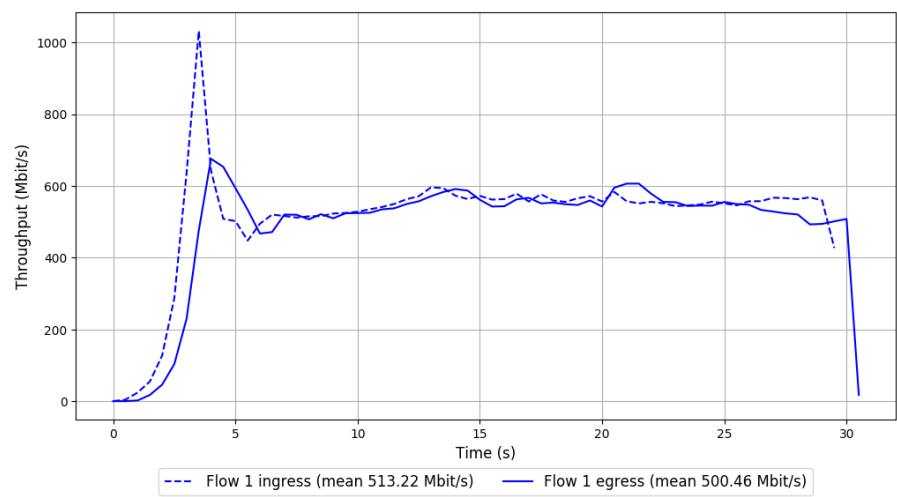
-- Flow 1:

Average throughput: 500.46 Mbit/s

95th percentile per-packet one-way delay: 280.083 ms

Loss rate: 2.48%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-06-30 13:45:08

End at: 2018-06-30 13:45:38

Local clock offset: -0.022 ms

Remote clock offset: 0.503 ms

Below is generated by plot.py at 2018-06-30 15:26:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 427.84 Mbit/s

95th percentile per-packet one-way delay: 243.785 ms

Loss rate: 0.90%

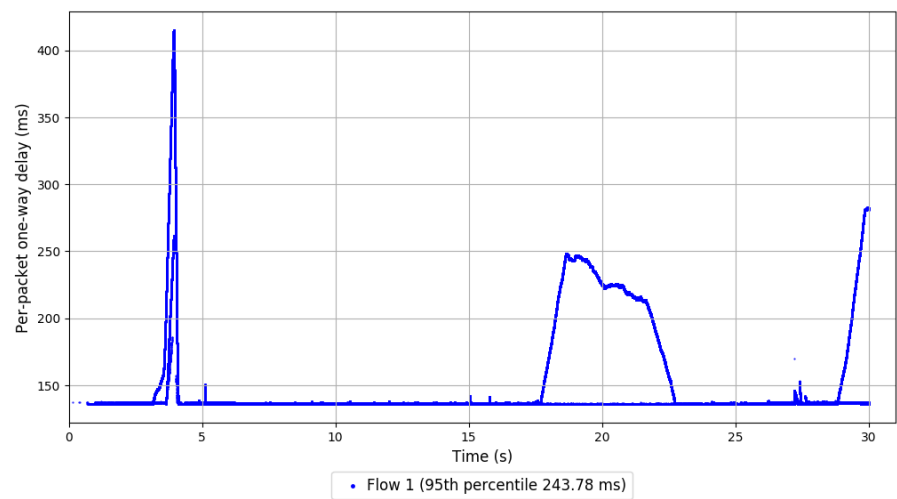
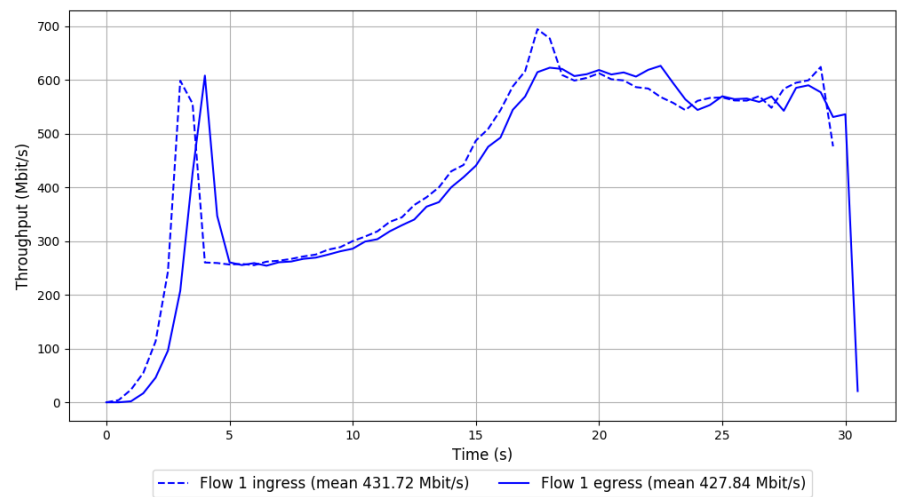
-- Flow 1:

Average throughput: 427.84 Mbit/s

95th percentile per-packet one-way delay: 243.785 ms

Loss rate: 0.90%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-06-30 14:07:40

End at: 2018-06-30 14:08:10

Local clock offset: -0.176 ms

Remote clock offset: 0.05 ms

Below is generated by plot.py at 2018-06-30 15:26:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 430.99 Mbit/s

95th percentile per-packet one-way delay: 258.691 ms

Loss rate: 0.56%

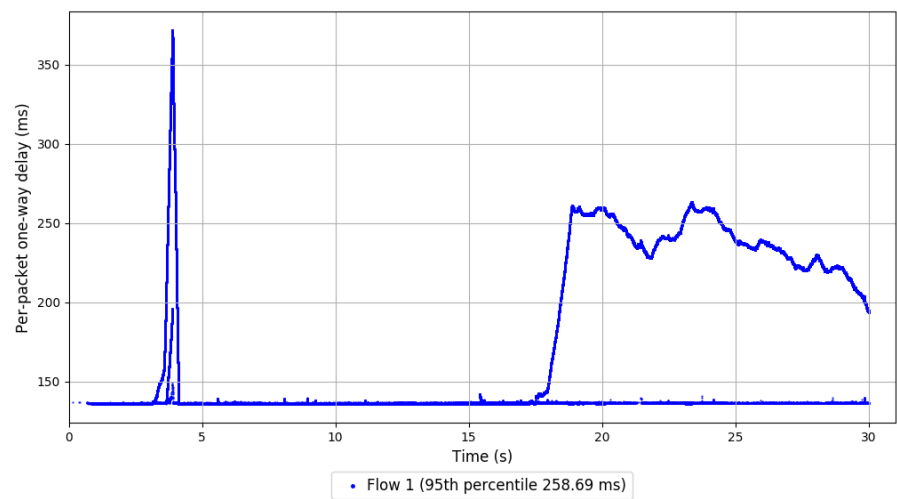
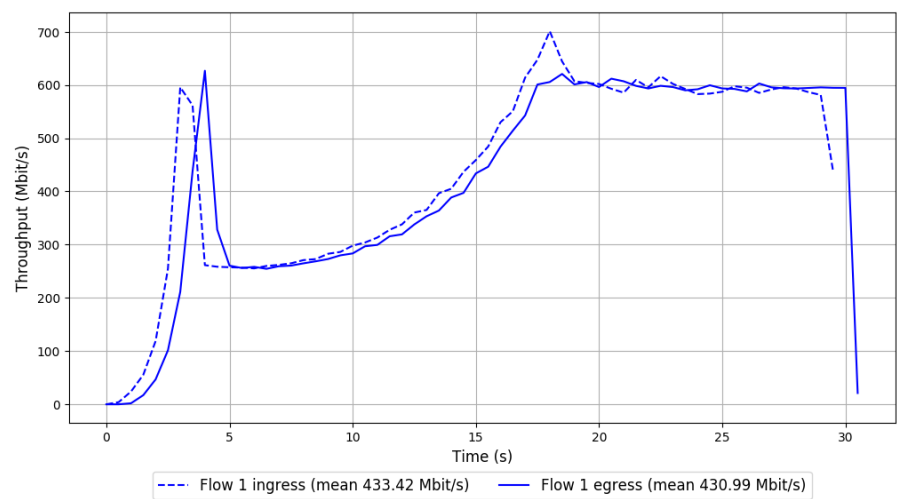
-- Flow 1:

Average throughput: 430.99 Mbit/s

95th percentile per-packet one-way delay: 258.691 ms

Loss rate: 0.56%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-06-30 14:30:13

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

Local clock offset: -0.04 ms

Remote clock offset: 0.052 ms

Below is generated by plot.py at 2018-06-30 15:29:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 510.69 Mbit/s

95th percentile per-packet one-way delay: 180.986 ms

Loss rate: 1.22%

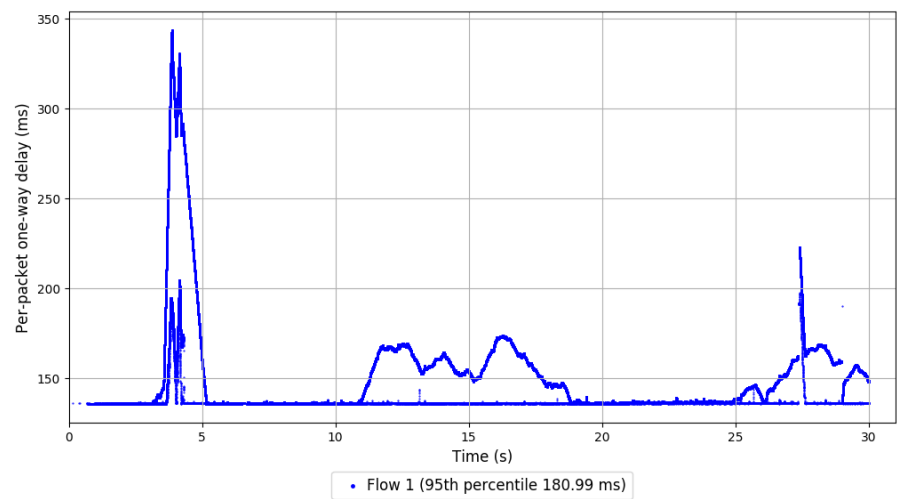
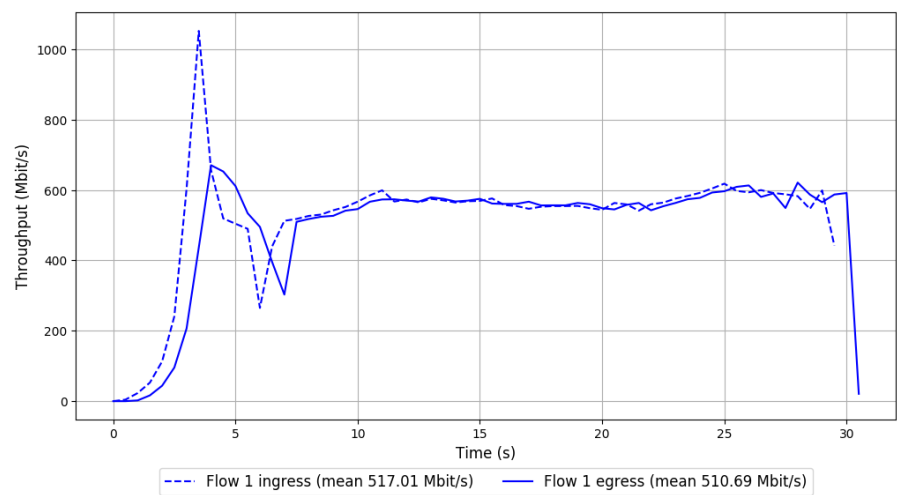
-- Flow 1:

Average throughput: 510.69 Mbit/s

95th percentile per-packet one-way delay: 180.986 ms

Loss rate: 1.22%

Run 10: Report of PCC-Allegro — Data Link

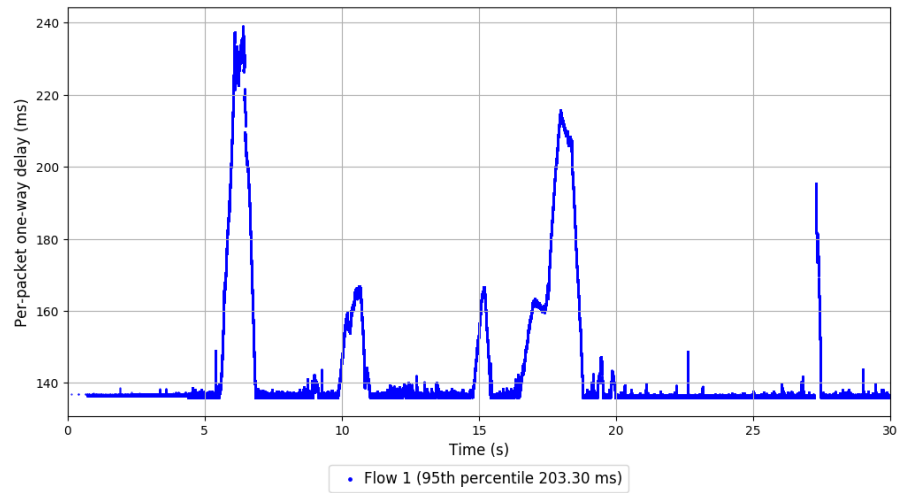
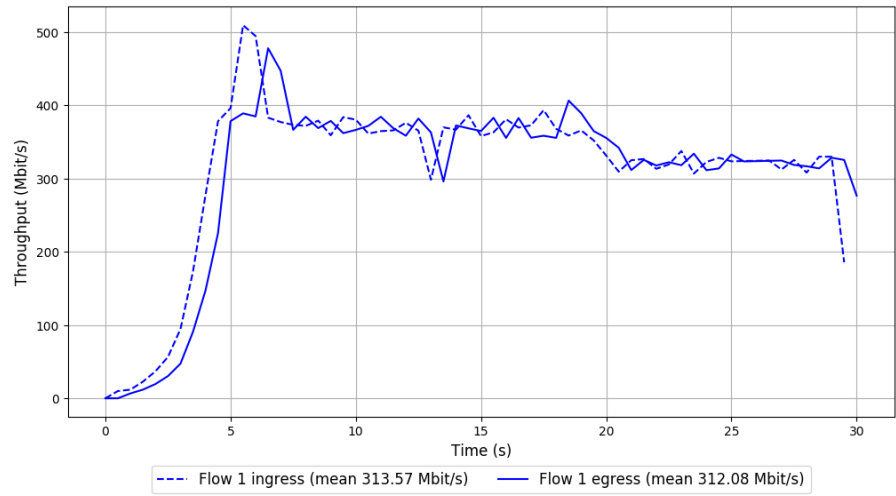


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-30 10:51:30
End at: 2018-06-30 10:52:00
Local clock offset: 0.248 ms
Remote clock offset: 0.401 ms

# Below is generated by plot.py at 2018-06-30 15:30:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 312.08 Mbit/s
95th percentile per-packet one-way delay: 203.298 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 312.08 Mbit/s
95th percentile per-packet one-way delay: 203.298 ms
Loss rate: 0.48%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-06-30 11:13:50

End at: 2018-06-30 11:14:20

Local clock offset: 0.442 ms

Remote clock offset: 0.13 ms

Below is generated by plot.py at 2018-06-30 15:30:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 235.36 Mbit/s

95th percentile per-packet one-way delay: 138.175 ms

Loss rate: 0.01%

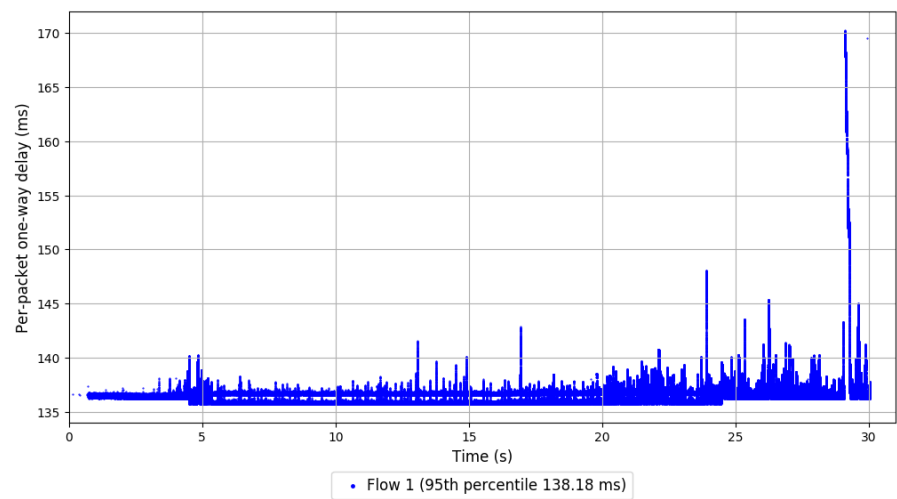
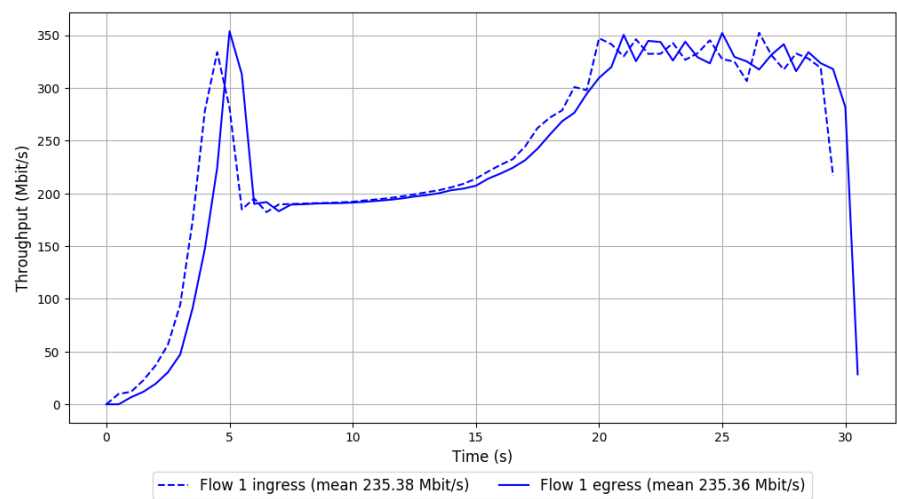
-- Flow 1:

Average throughput: 235.36 Mbit/s

95th percentile per-packet one-way delay: 138.175 ms

Loss rate: 0.01%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-06-30 11:36:23

End at: 2018-06-30 11:36:53

Local clock offset: 0.478 ms

Remote clock offset: 0.075 ms

Below is generated by plot.py at 2018-06-30 15:30:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.26 Mbit/s

95th percentile per-packet one-way delay: 136.145 ms

Loss rate: 0.00%

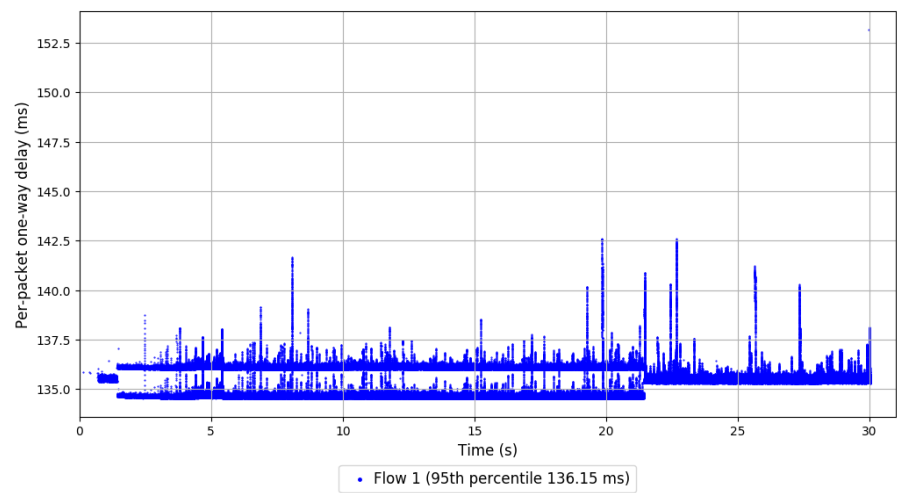
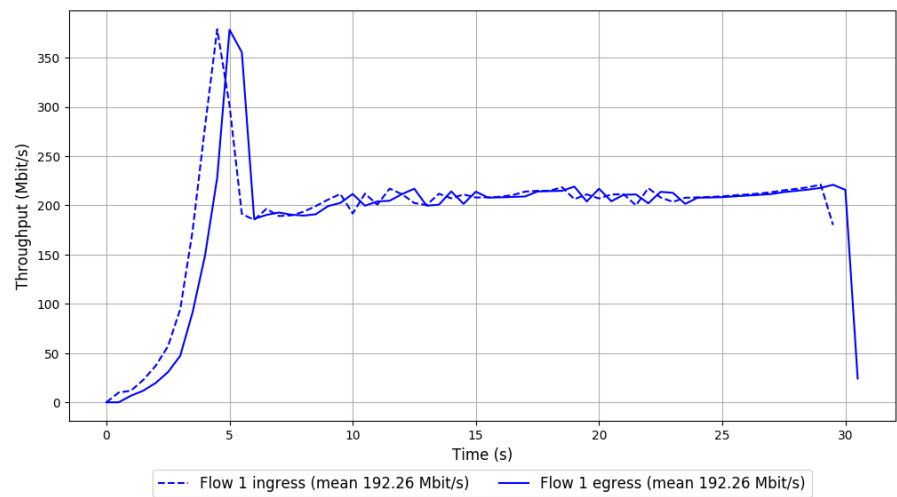
-- Flow 1:

Average throughput: 192.26 Mbit/s

95th percentile per-packet one-way delay: 136.145 ms

Loss rate: 0.00%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-06-30 11:58:53

End at: 2018-06-30 11:59:23

Local clock offset: 0.138 ms

Remote clock offset: 0.097 ms

Below is generated by plot.py at 2018-06-30 15:31:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 303.70 Mbit/s

95th percentile per-packet one-way delay: 156.081 ms

Loss rate: 0.00%

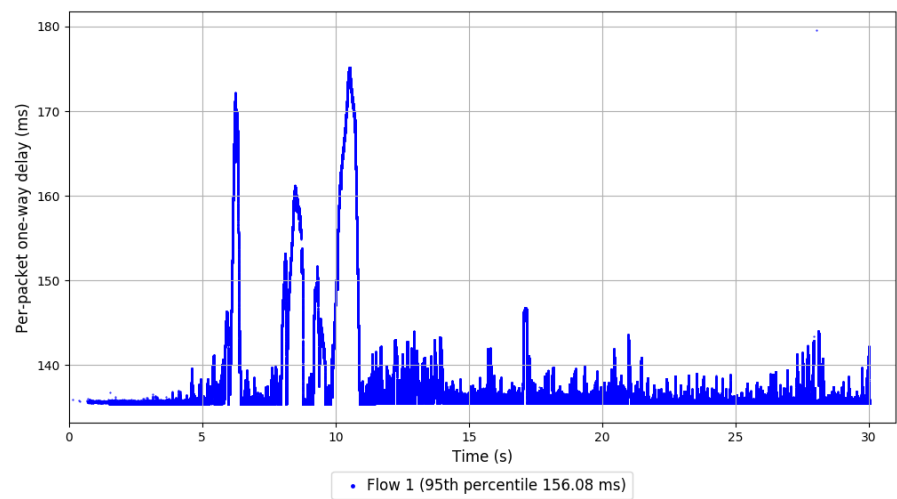
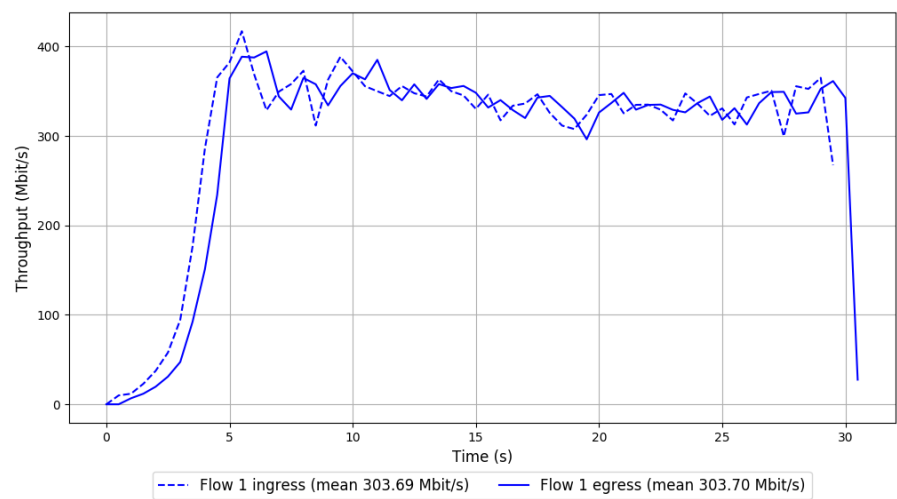
-- Flow 1:

Average throughput: 303.70 Mbit/s

95th percentile per-packet one-way delay: 156.081 ms

Loss rate: 0.00%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-06-30 12:21:48

End at: 2018-06-30 12:22:18

Local clock offset: 0.089 ms

Remote clock offset: 0.084 ms

Below is generated by plot.py at 2018-06-30 15:31:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.22 Mbit/s

95th percentile per-packet one-way delay: 136.654 ms

Loss rate: 0.00%

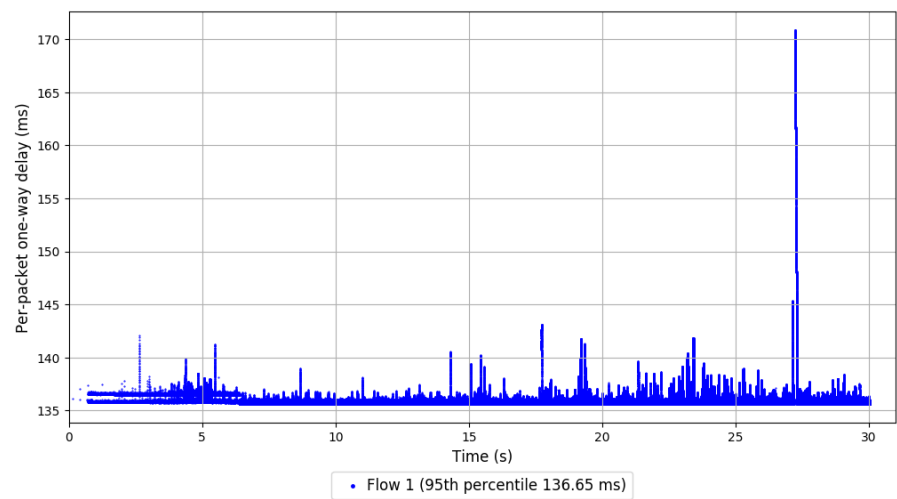
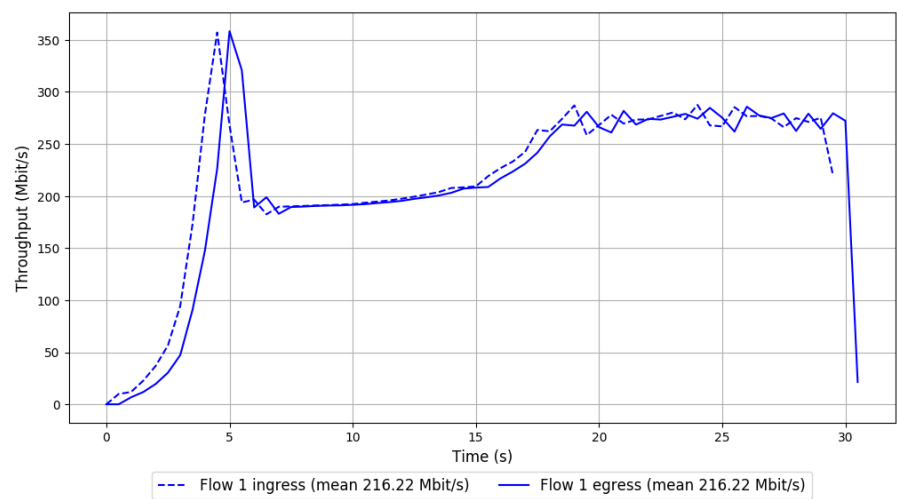
-- Flow 1:

Average throughput: 216.22 Mbit/s

95th percentile per-packet one-way delay: 136.654 ms

Loss rate: 0.00%

Run 5: Report of PCC-Expr — Data Link

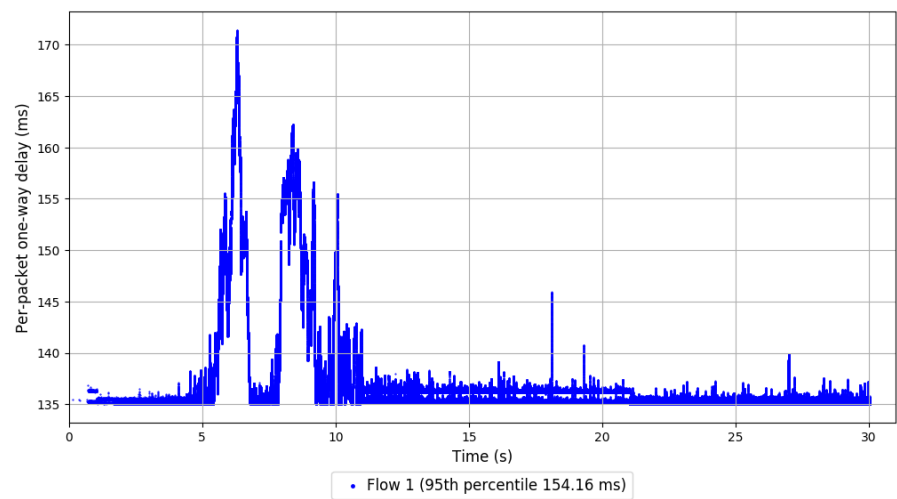
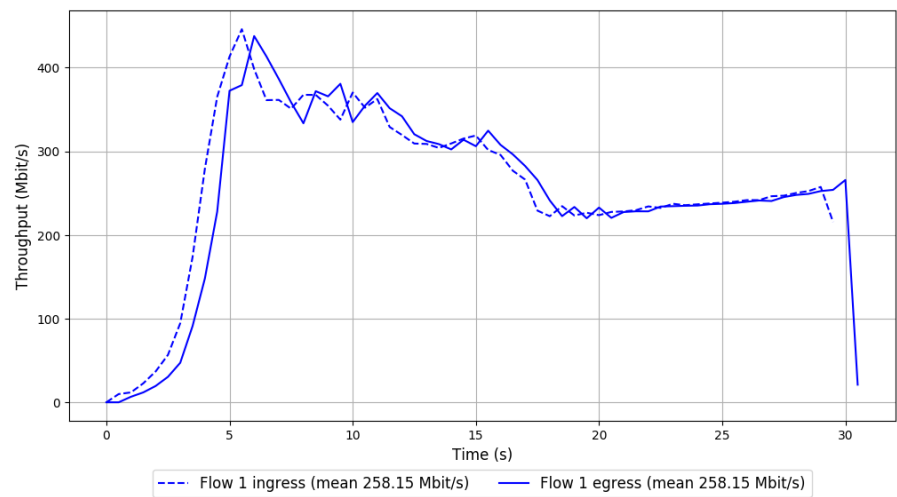


Run 6: Statistics of PCC-Expr

Start at: 2018-06-30 12:44:03
End at: 2018-06-30 12:44:34
Local clock offset: 0.024 ms
Remote clock offset: -0.387 ms

Below is generated by plot.py at 2018-06-30 15:35:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 258.15 Mbit/s
95th percentile per-packet one-way delay: 154.165 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 258.15 Mbit/s
95th percentile per-packet one-way delay: 154.165 ms
Loss rate: 0.00%

Run 6: Report of PCC-Expr — Data Link

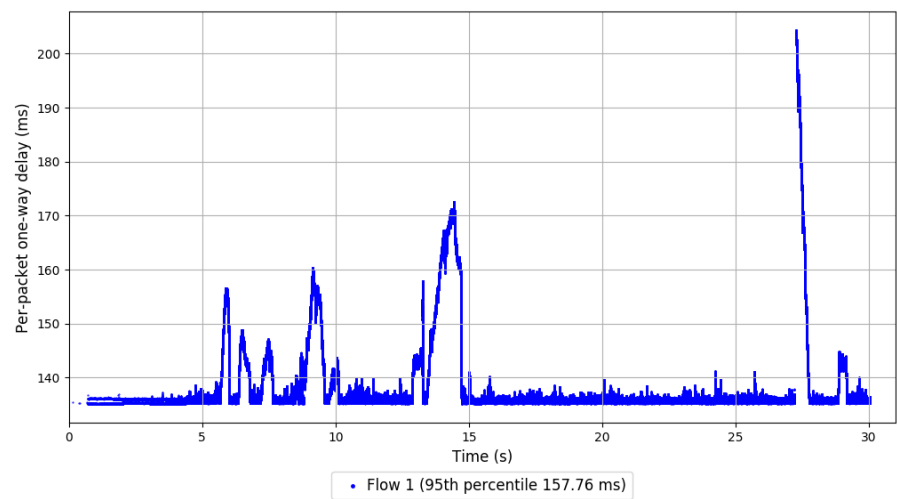
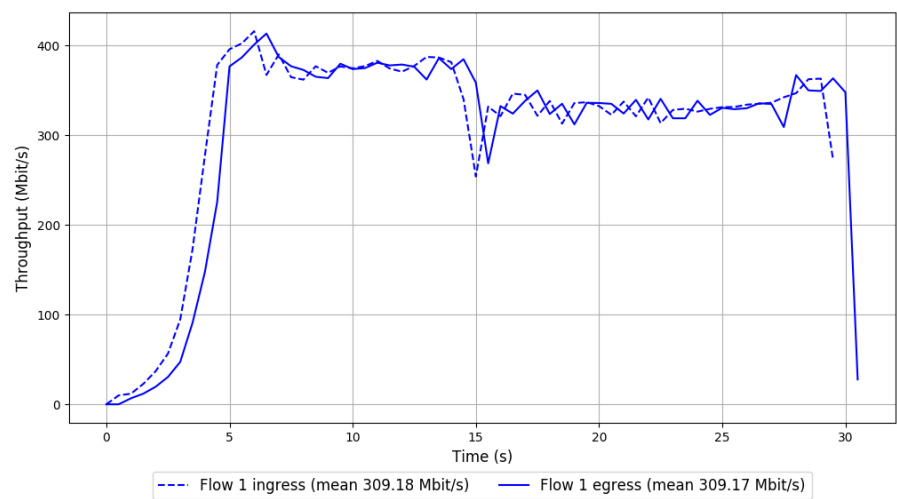


Run 7: Statistics of PCC-Expr

Start at: 2018-06-30 13:06:03
End at: 2018-06-30 13:06:33
Local clock offset: 0.181 ms
Remote clock offset: -0.404 ms

Below is generated by plot.py at 2018-06-30 15:37:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 309.17 Mbit/s
95th percentile per-packet one-way delay: 157.758 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 309.17 Mbit/s
95th percentile per-packet one-way delay: 157.758 ms
Loss rate: 0.00%

Run 7: Report of PCC-Expr — Data Link

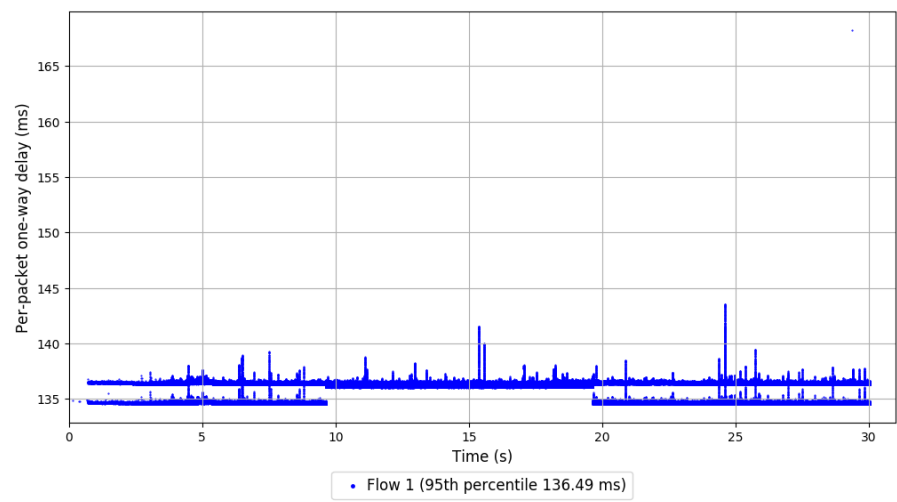
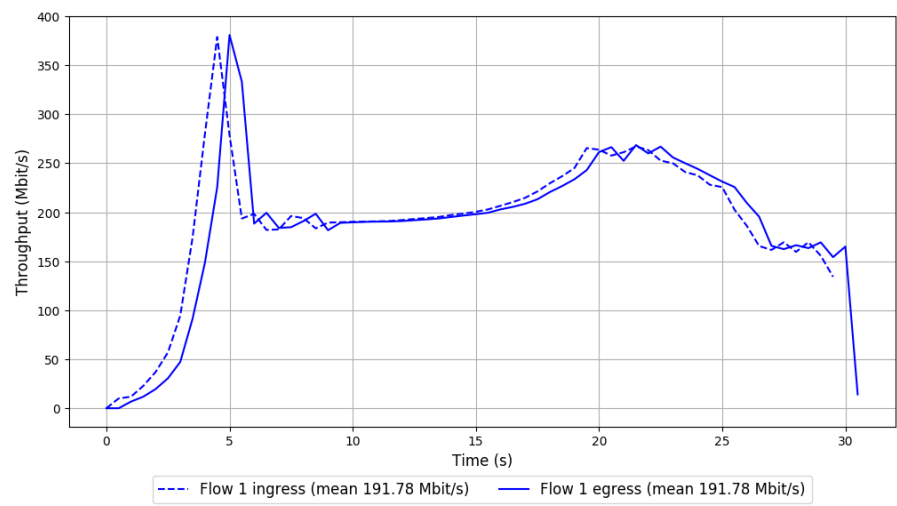


Run 8: Statistics of PCC-Expr

Start at: 2018-06-30 13:28:55
End at: 2018-06-30 13:29:25
Local clock offset: -0.198 ms
Remote clock offset: -0.221 ms

Below is generated by plot.py at 2018-06-30 15:37:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 191.78 Mbit/s
95th percentile per-packet one-way delay: 136.486 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 191.78 Mbit/s
95th percentile per-packet one-way delay: 136.486 ms
Loss rate: 0.00%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-06-30 13:50:53

End at: 2018-06-30 13:51:23

Local clock offset: -0.165 ms

Remote clock offset: 0.052 ms

Below is generated by plot.py at 2018-06-30 15:39:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 322.73 Mbit/s

95th percentile per-packet one-way delay: 250.687 ms

Loss rate: 0.44%

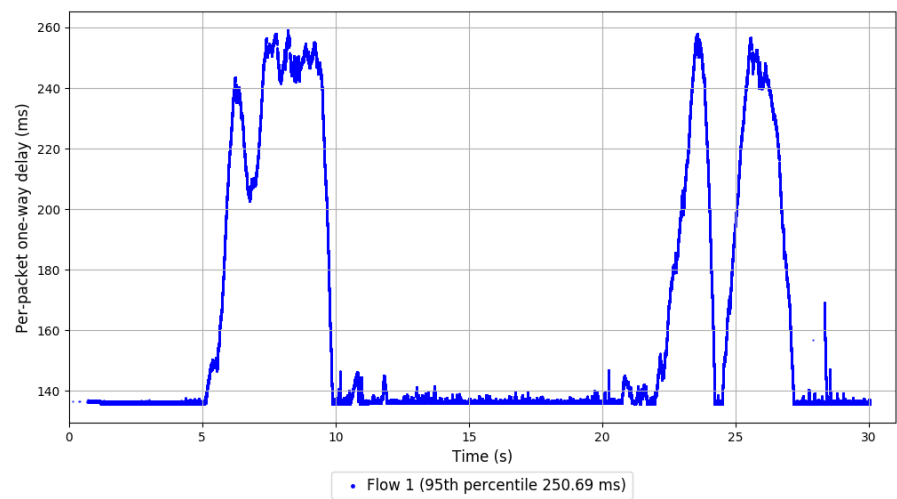
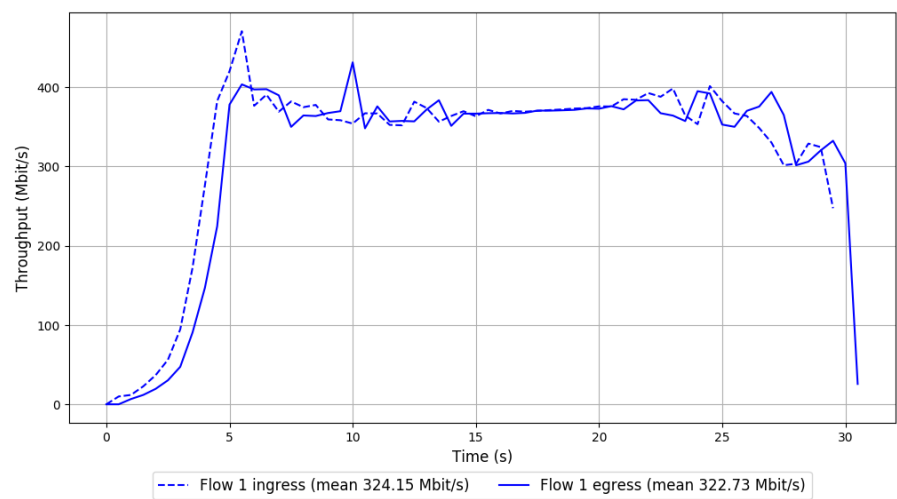
-- Flow 1:

Average throughput: 322.73 Mbit/s

95th percentile per-packet one-way delay: 250.687 ms

Loss rate: 0.44%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-06-30 14:13:26

End at: 2018-06-30 14:13:56

Local clock offset: -0.347 ms

Remote clock offset: 0.049 ms

Below is generated by plot.py at 2018-06-30 15:39:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 246.33 Mbit/s

95th percentile per-packet one-way delay: 159.531 ms

Loss rate: 0.00%

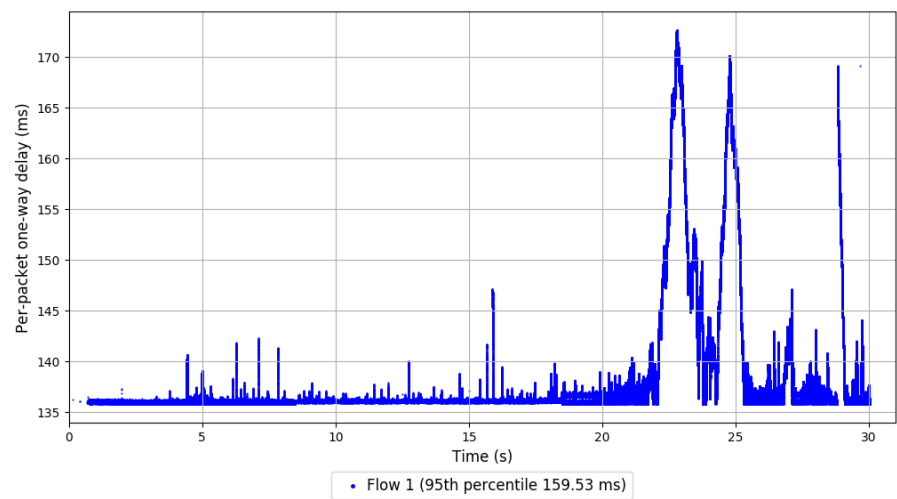
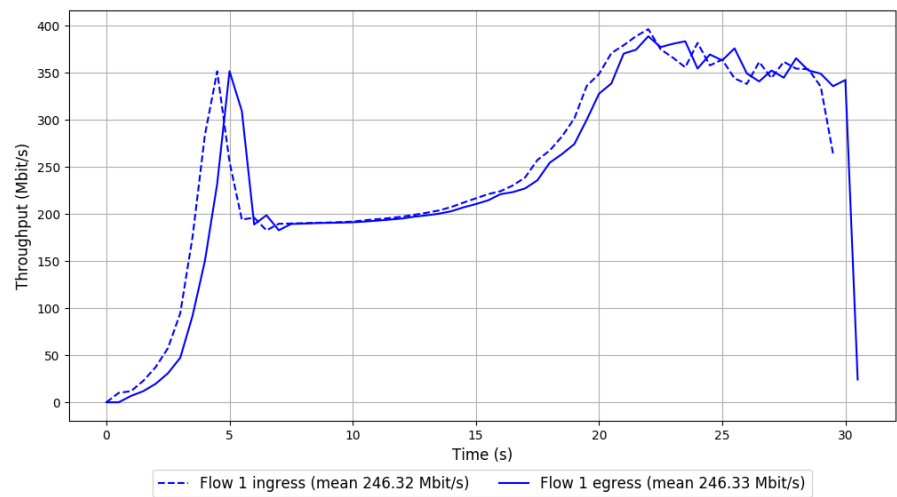
-- Flow 1:

Average throughput: 246.33 Mbit/s

95th percentile per-packet one-way delay: 159.531 ms

Loss rate: 0.00%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

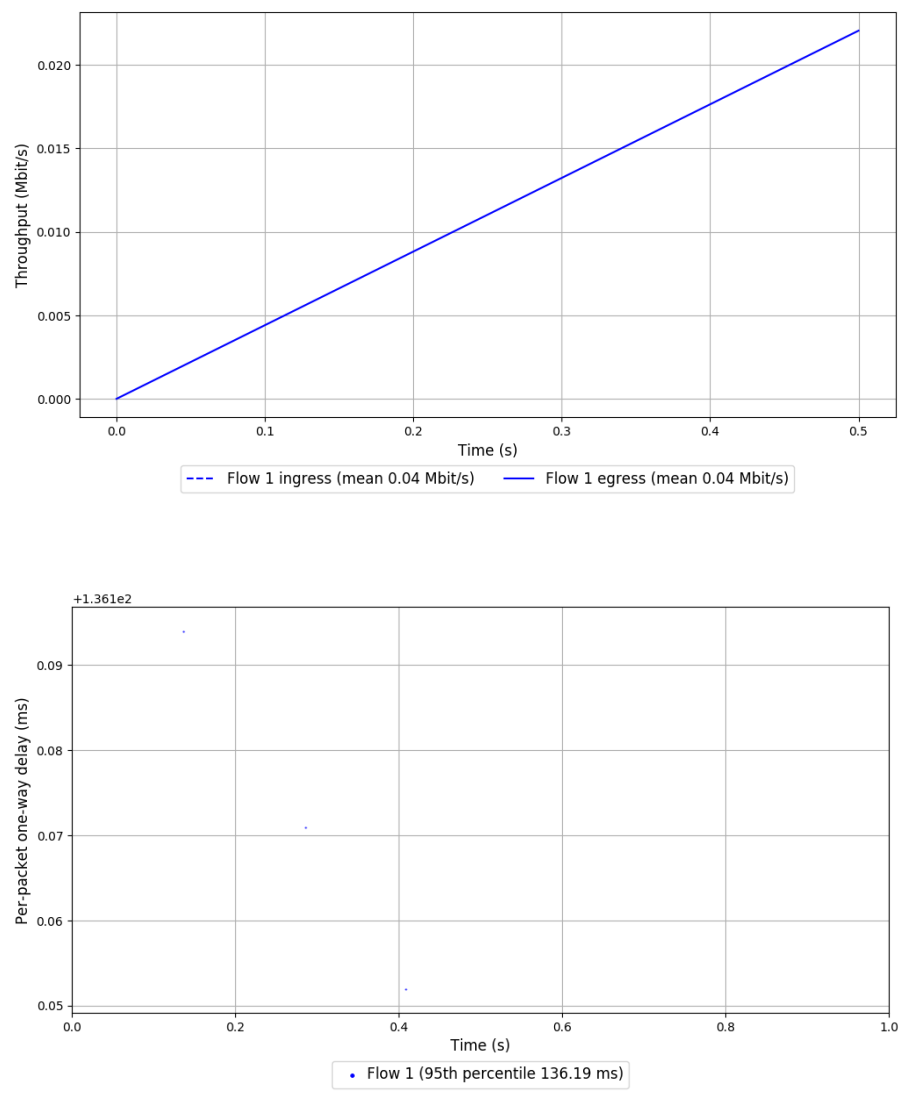
Start at: 2018-06-30 11:05:22

End at: 2018-06-30 11:05:52

Local clock offset: 0.418 ms

Remote clock offset: 0.435 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-06-30 11:27:44

End at: 2018-06-30 11:28:14

Local clock offset: 0.345 ms

Remote clock offset: 0.133 ms

Below is generated by plot.py at 2018-06-30 15:39:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.60 Mbit/s

95th percentile per-packet one-way delay: 136.620 ms

Loss rate: 0.00%

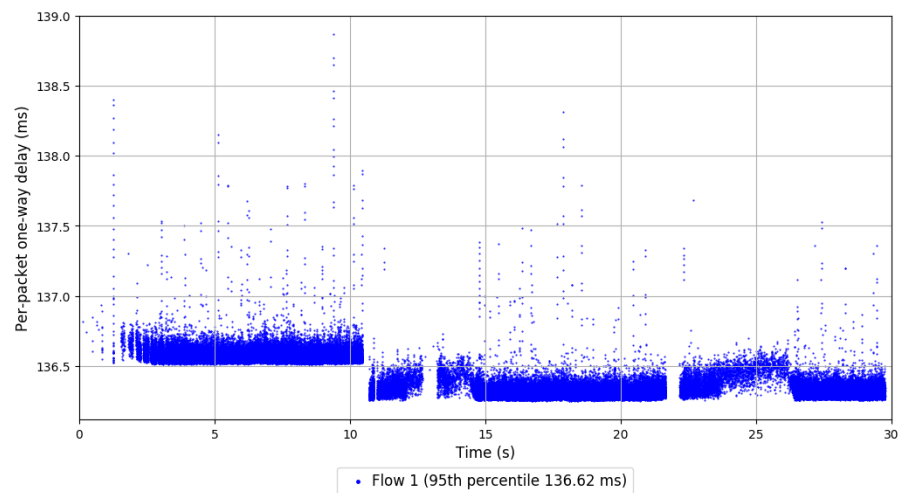
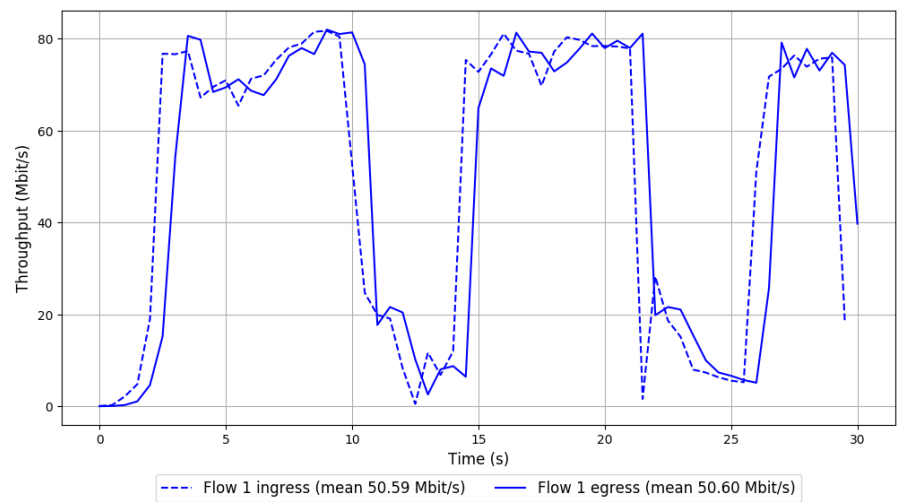
-- Flow 1:

Average throughput: 50.60 Mbit/s

95th percentile per-packet one-way delay: 136.620 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-06-30 11:50:14

End at: 2018-06-30 11:50:45

Local clock offset: 0.258 ms

Remote clock offset: -0.293 ms

Below is generated by plot.py at 2018-06-30 15:39:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.17 Mbit/s

95th percentile per-packet one-way delay: 135.144 ms

Loss rate: 0.00%

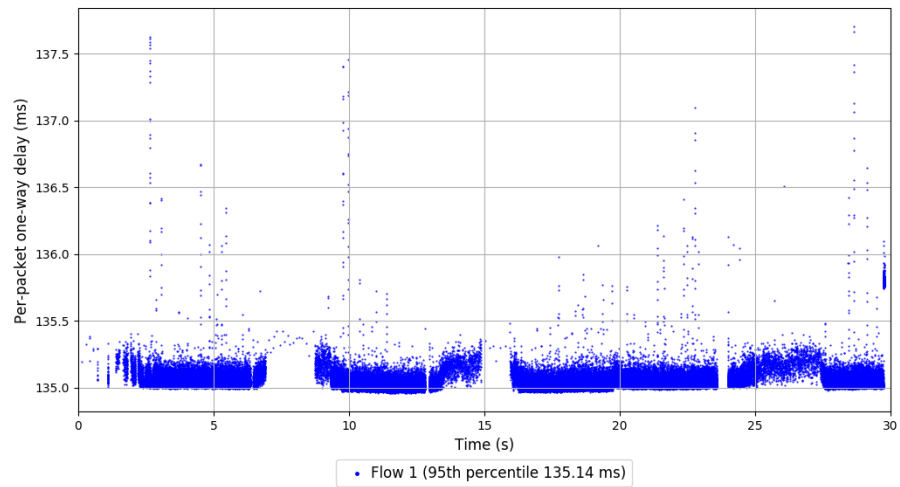
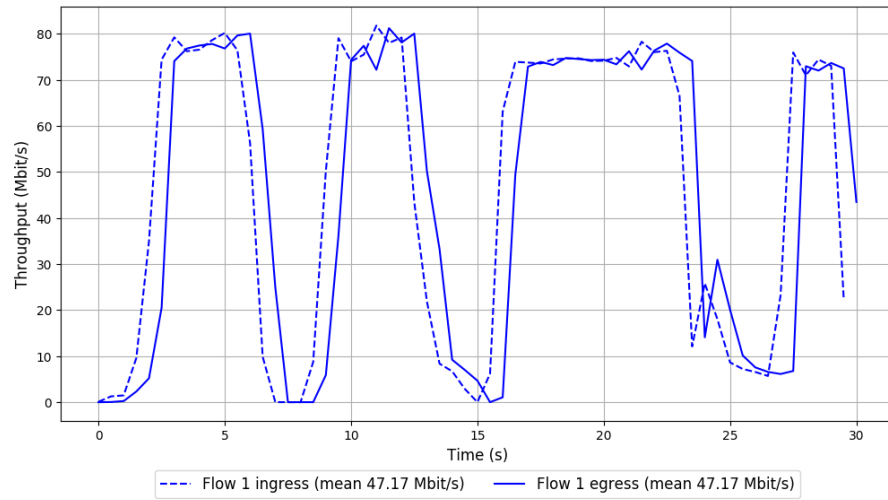
-- Flow 1:

Average throughput: 47.17 Mbit/s

95th percentile per-packet one-way delay: 135.144 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-06-30 12:13:18

End at: 2018-06-30 12:13:48

Local clock offset: -0.127 ms

Remote clock offset: 0.039 ms

Below is generated by plot.py at 2018-06-30 15:39:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.94 Mbit/s

95th percentile per-packet one-way delay: 136.573 ms

Loss rate: 0.00%

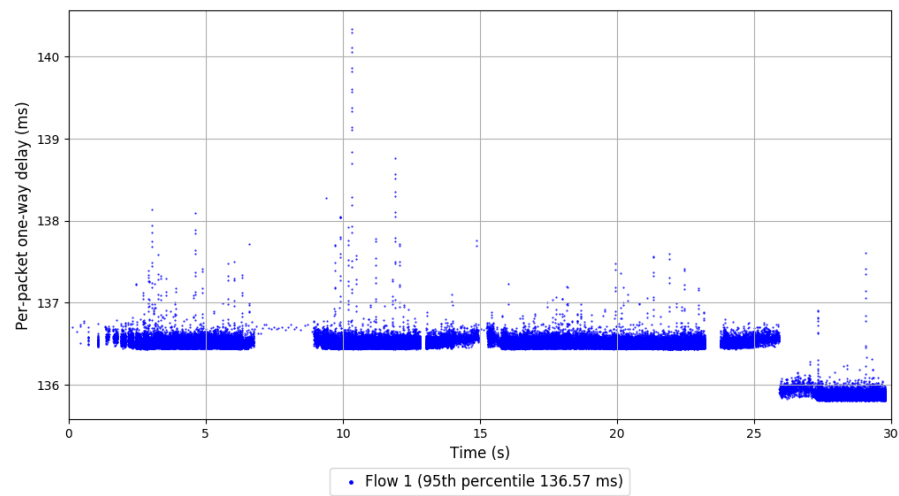
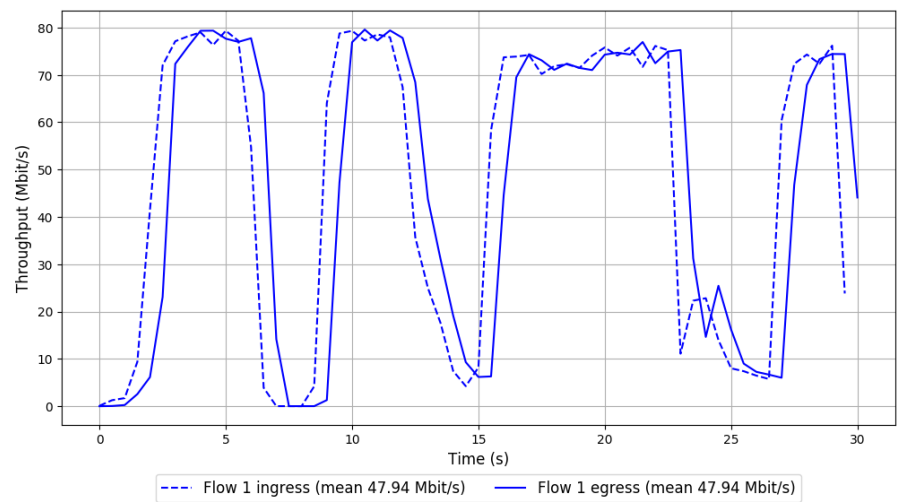
-- Flow 1:

Average throughput: 47.94 Mbit/s

95th percentile per-packet one-way delay: 136.573 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-06-30 12:35:48

End at: 2018-06-30 12:36:18

Local clock offset: -0.068 ms

Remote clock offset: 0.397 ms

Below is generated by plot.py at 2018-06-30 15:39:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.22 Mbit/s

95th percentile per-packet one-way delay: 136.329 ms

Loss rate: 0.00%

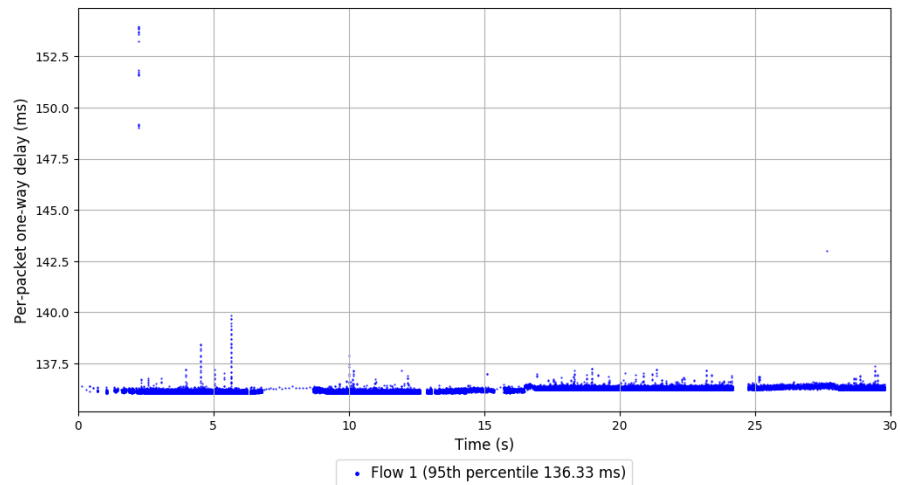
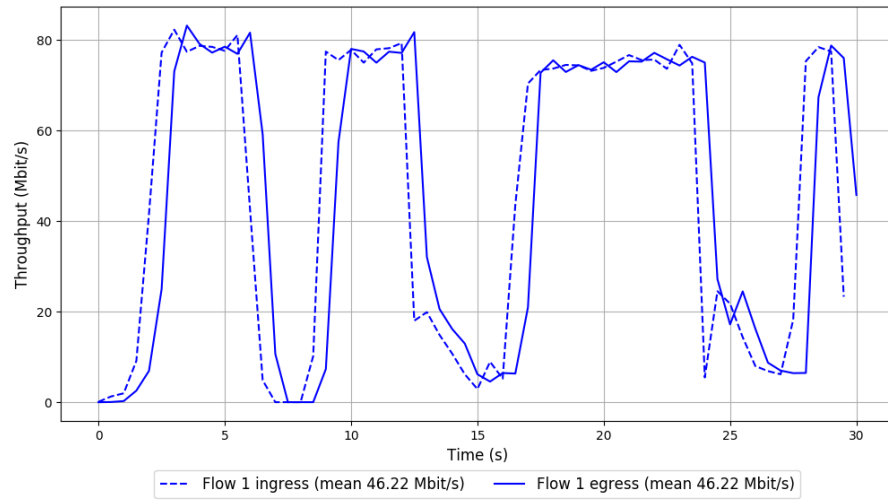
-- Flow 1:

Average throughput: 46.22 Mbit/s

95th percentile per-packet one-way delay: 136.329 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

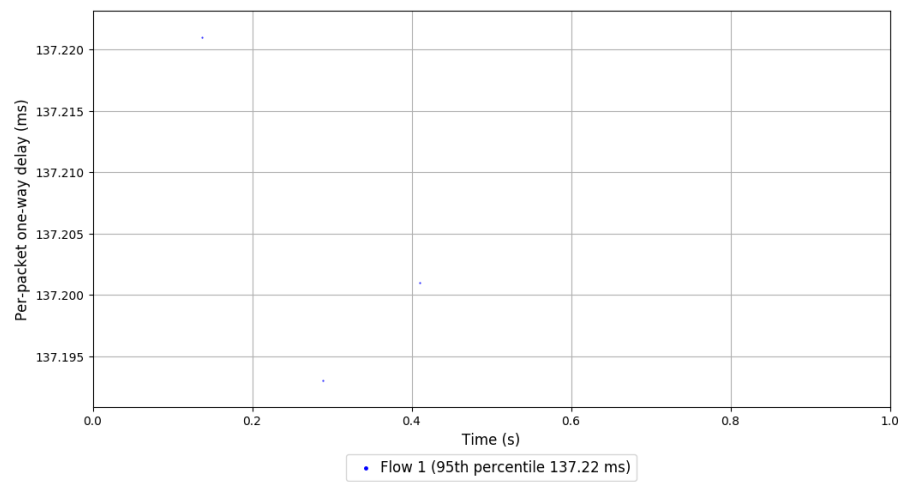
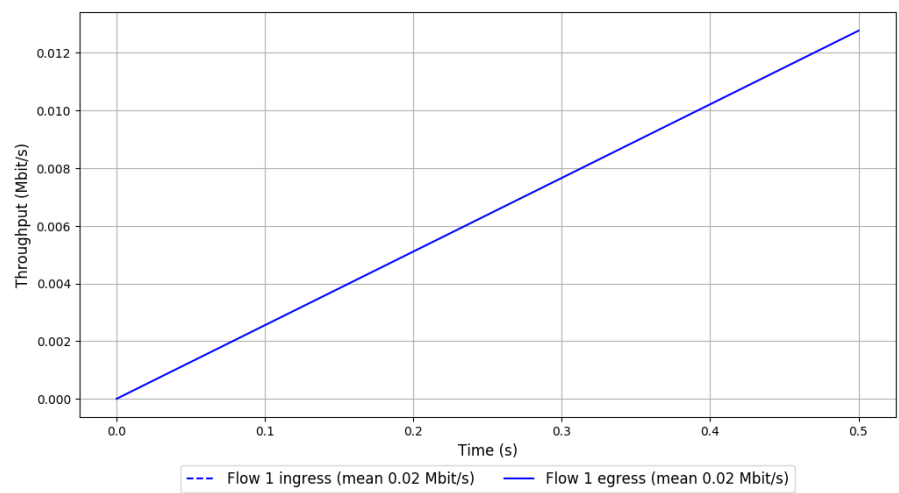
Start at: 2018-06-30 12:58:10

End at: 2018-06-30 12:58:40

Local clock offset: -0.11 ms

Remote clock offset: 0.416 ms

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-06-30 13:20:16

End at: 2018-06-30 13:20:46

Local clock offset: -0.078 ms

Remote clock offset: 0.062 ms

Below is generated by plot.py at 2018-06-30 15:39:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.68 Mbit/s

95th percentile per-packet one-way delay: 136.381 ms

Loss rate: 0.00%

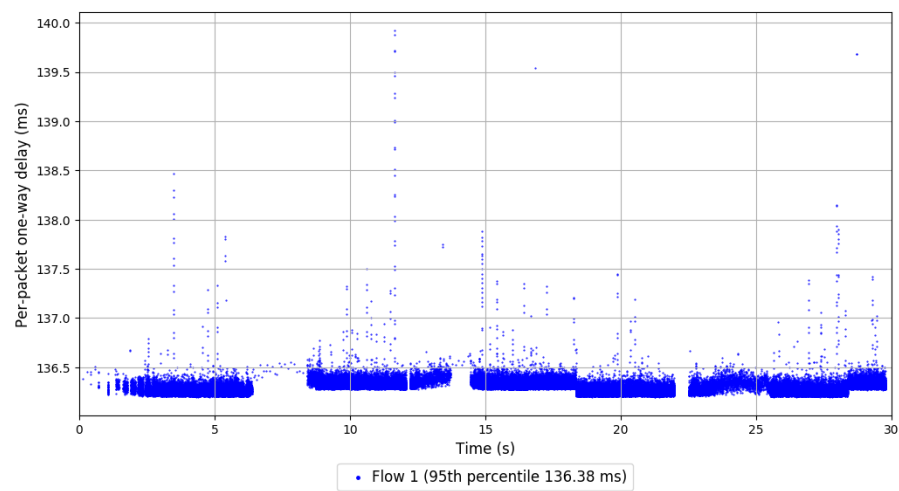
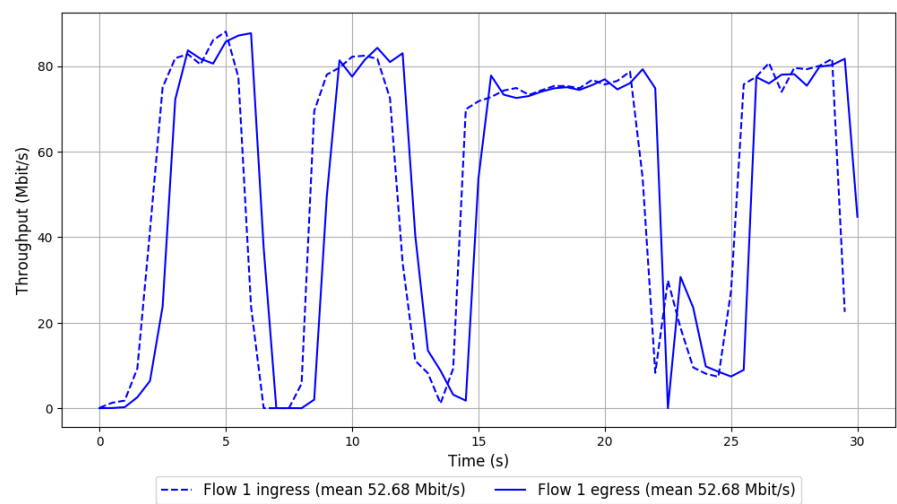
-- Flow 1:

Average throughput: 52.68 Mbit/s

95th percentile per-packet one-way delay: 136.381 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

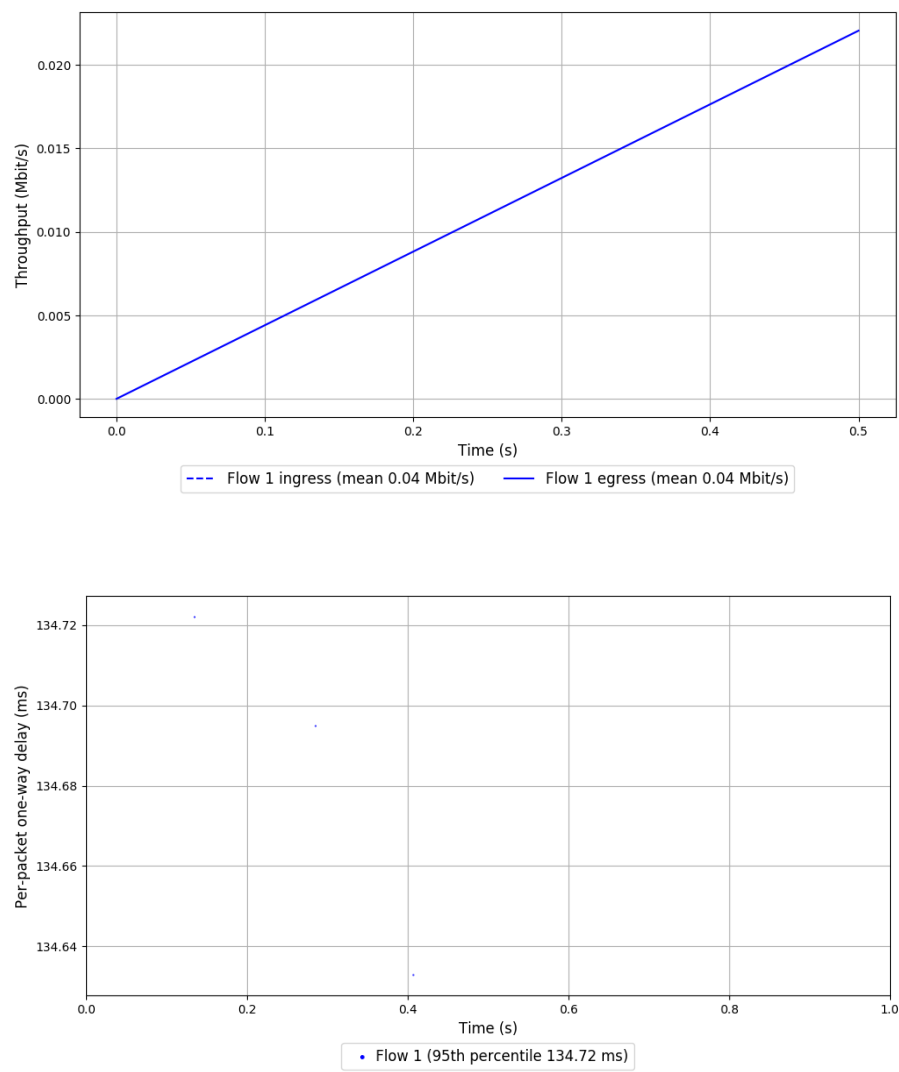
Start at: 2018-06-30 13:42:42

End at: 2018-06-30 13:43:12

Local clock offset: -0.05 ms

Remote clock offset: 0.116 ms

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

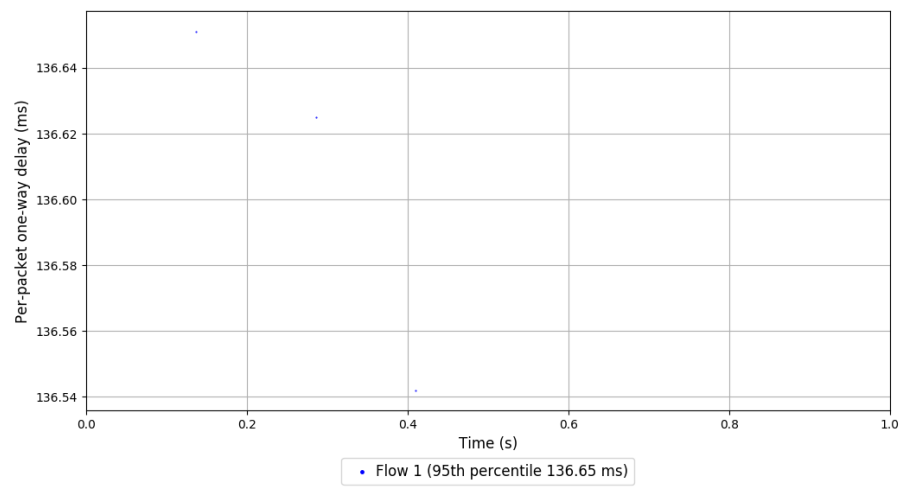
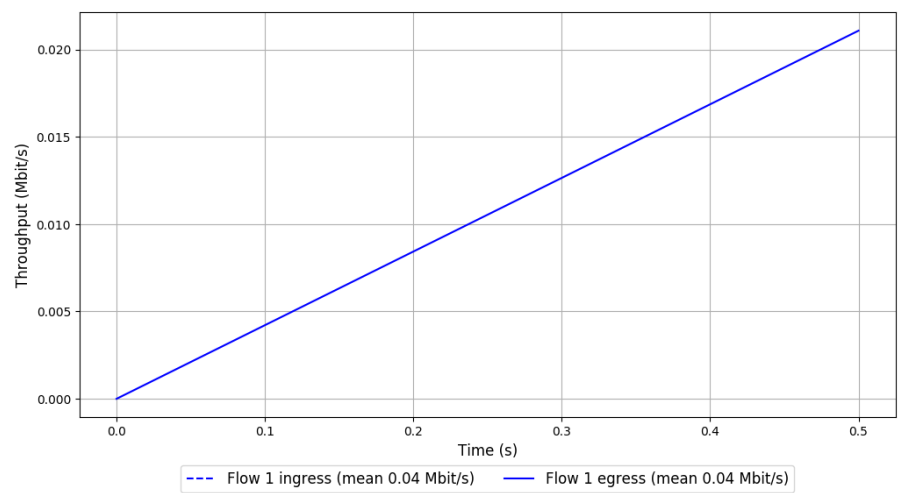
Start at: 2018-06-30 14:05:21

End at: 2018-06-30 14:05:51

Local clock offset: -0.38 ms

Remote clock offset: 0.047 ms

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-06-30 14:27:30

End at: 2018-06-30 14:28:00

Local clock offset: -0.097 ms

Remote clock offset: 0.38 ms

Below is generated by plot.py at 2018-06-30 15:39:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.41 Mbit/s

95th percentile per-packet one-way delay: 136.486 ms

Loss rate: 0.00%

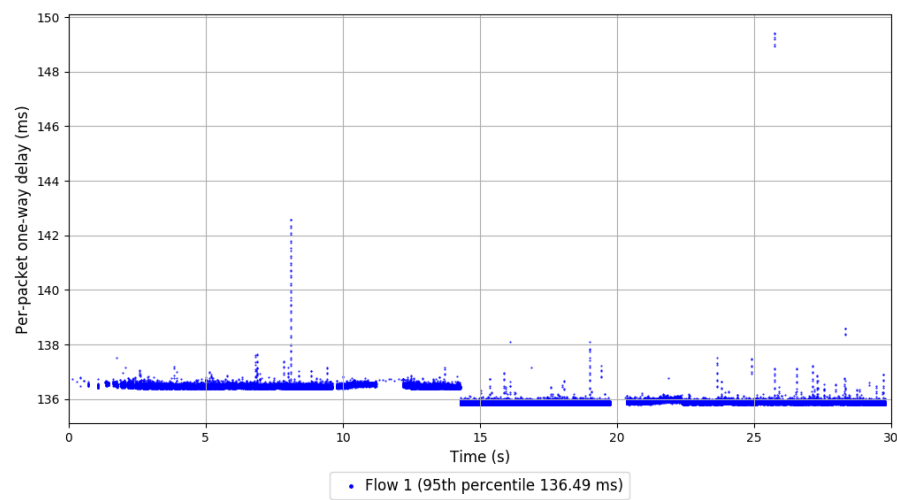
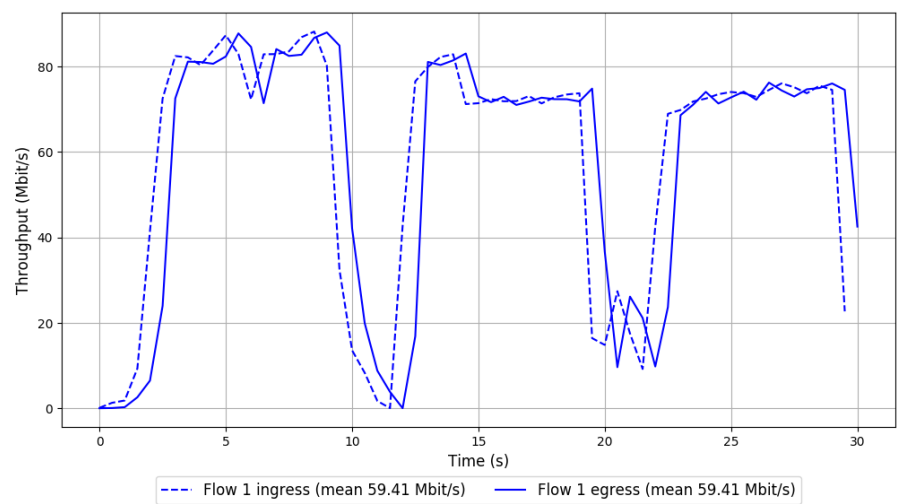
-- Flow 1:

Average throughput: 59.41 Mbit/s

95th percentile per-packet one-way delay: 136.486 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

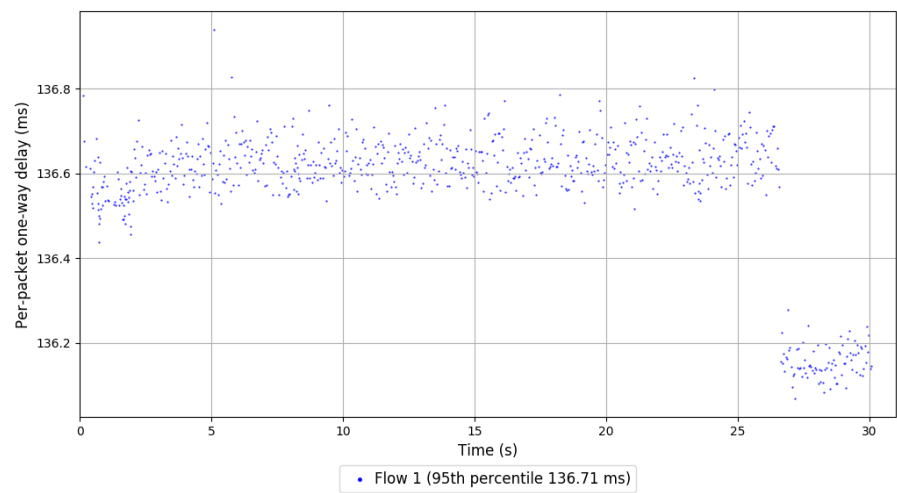
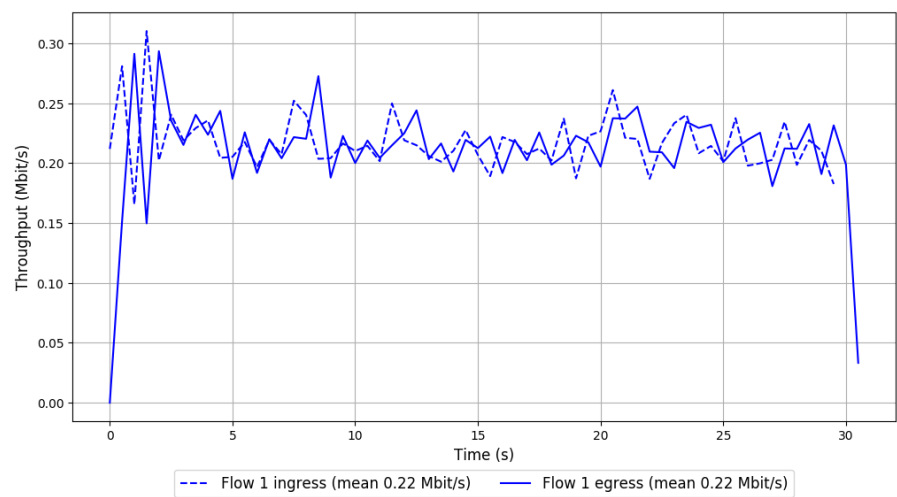


```
Run 1: Statistics of SCReAM

Start at: 2018-06-30 10:59:18
End at: 2018-06-30 10:59:48
Local clock offset: 0.172 ms
Remote clock offset: 0.124 ms

# Below is generated by plot.py at 2018-06-30 15:39:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.713 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.713 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

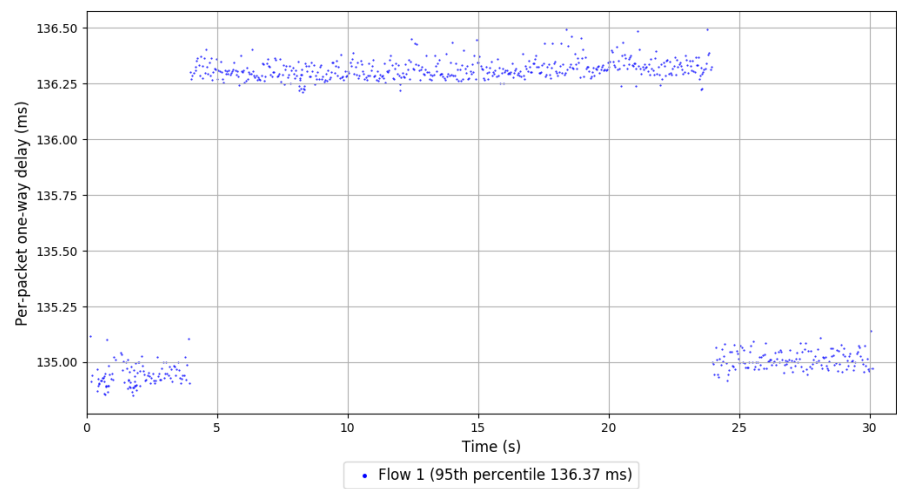
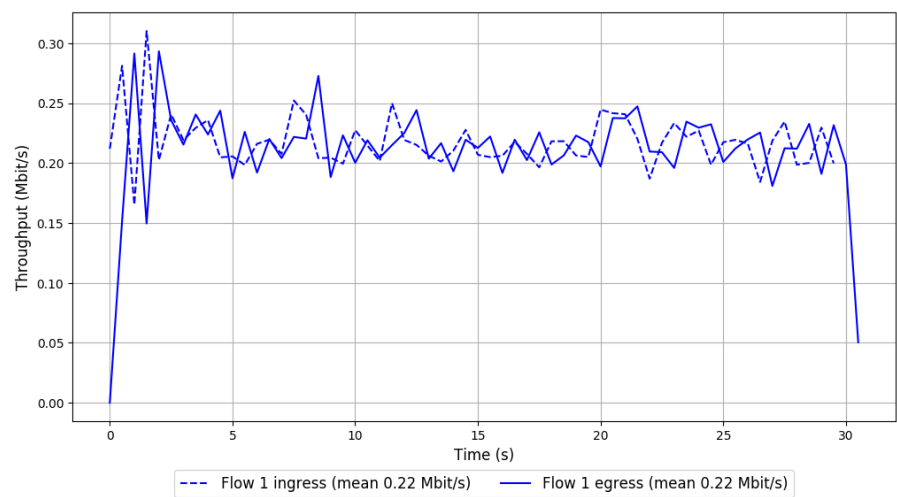


```
Run 2: Statistics of SCReAM

Start at: 2018-06-30 11:21:41
End at: 2018-06-30 11:22:11
Local clock offset: 0.534 ms
Remote clock offset: 0.131 ms

# Below is generated by plot.py at 2018-06-30 15:39:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.374 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.374 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-06-30 11:44:09

End at: 2018-06-30 11:44:39

Local clock offset: 0.1 ms

Remote clock offset: 0.095 ms

Below is generated by plot.py at 2018-06-30 15:39:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.653 ms

Loss rate: 0.00%

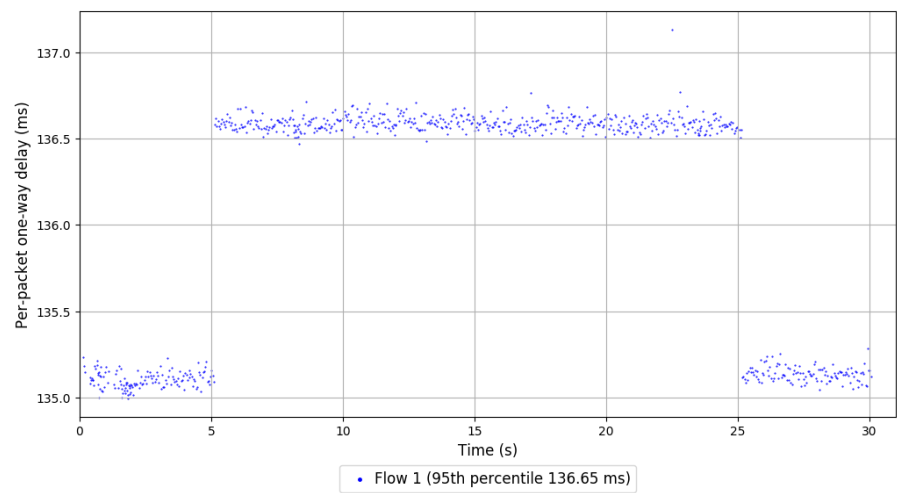
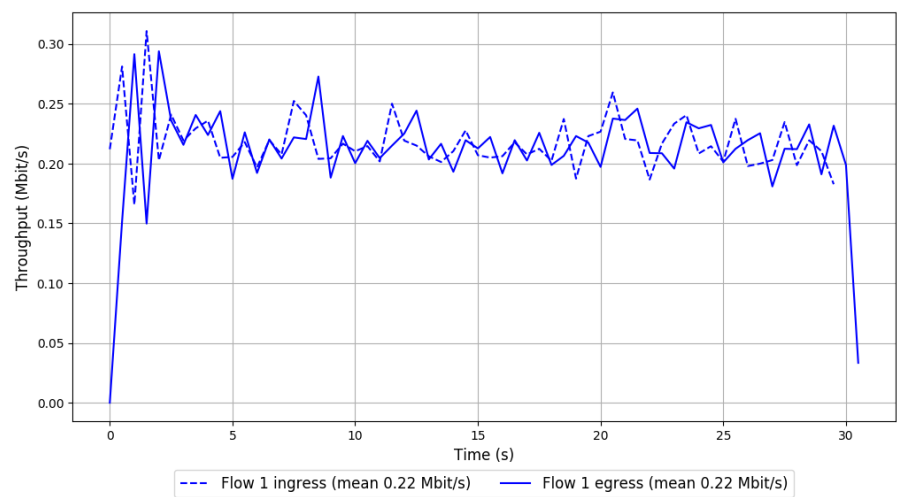
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.653 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-06-30 12:06:59

End at: 2018-06-30 12:07:29

Local clock offset: 0.115 ms

Remote clock offset: 0.076 ms

Below is generated by plot.py at 2018-06-30 15:39:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.622 ms

Loss rate: 0.00%

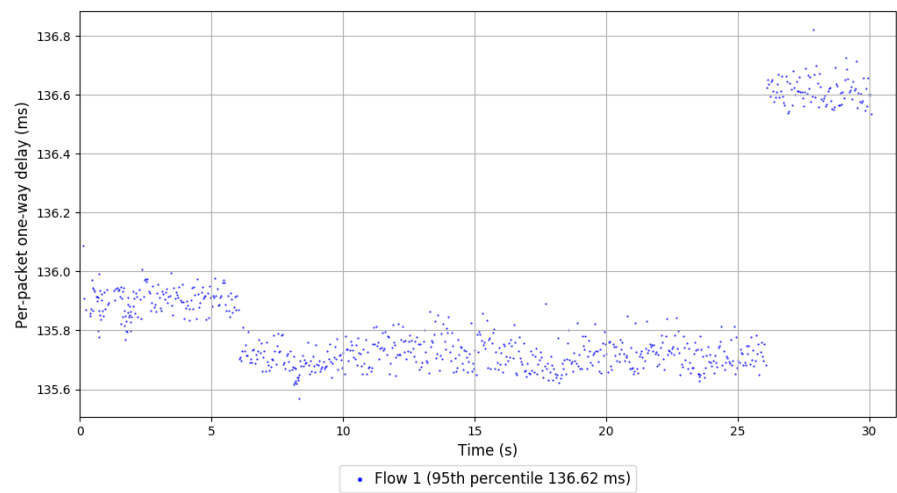
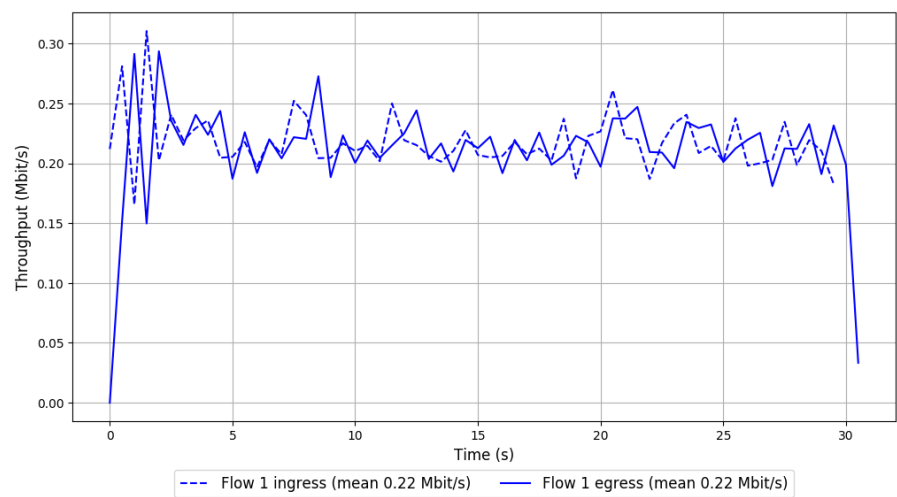
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.622 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

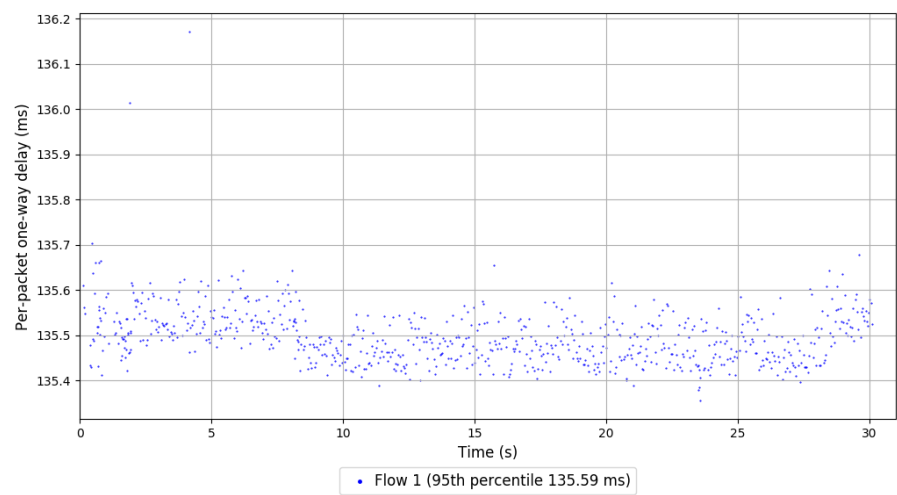
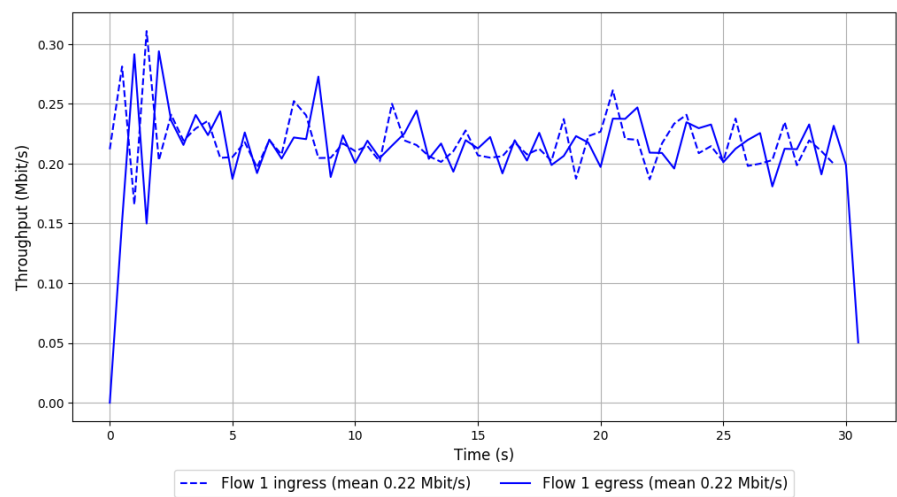


Run 5: Statistics of SCReAM

Start at: 2018-06-30 12:29:36
End at: 2018-06-30 12:30:06
Local clock offset: 0.082 ms
Remote clock offset: -0.323 ms

Below is generated by plot.py at 2018-06-30 15:39:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.593 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.593 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-06-30 12:52:02

End at: 2018-06-30 12:52:32

Local clock offset: -0.135 ms

Remote clock offset: 0.389 ms

Below is generated by plot.py at 2018-06-30 15:39:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.295 ms

Loss rate: 0.00%

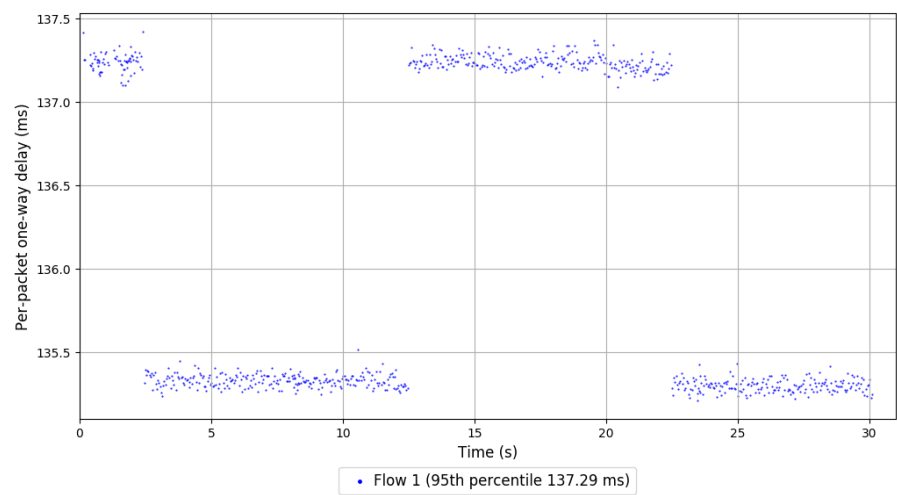
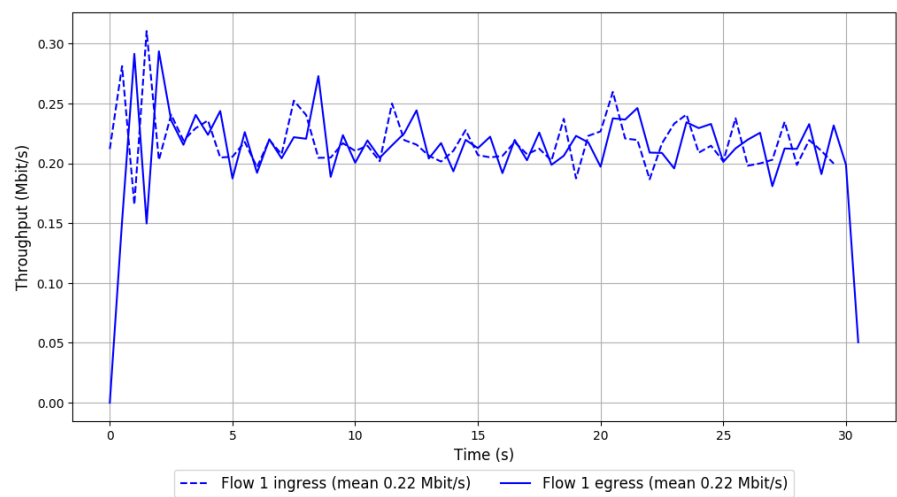
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.295 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-06-30 13:14:03

End at: 2018-06-30 13:14:33

Local clock offset: -0.041 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2018-06-30 15:39:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.005 ms

Loss rate: 0.00%

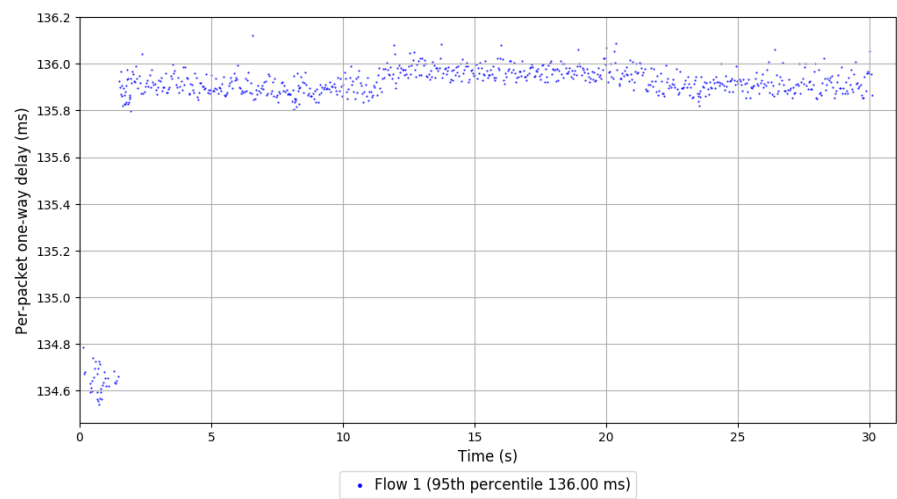
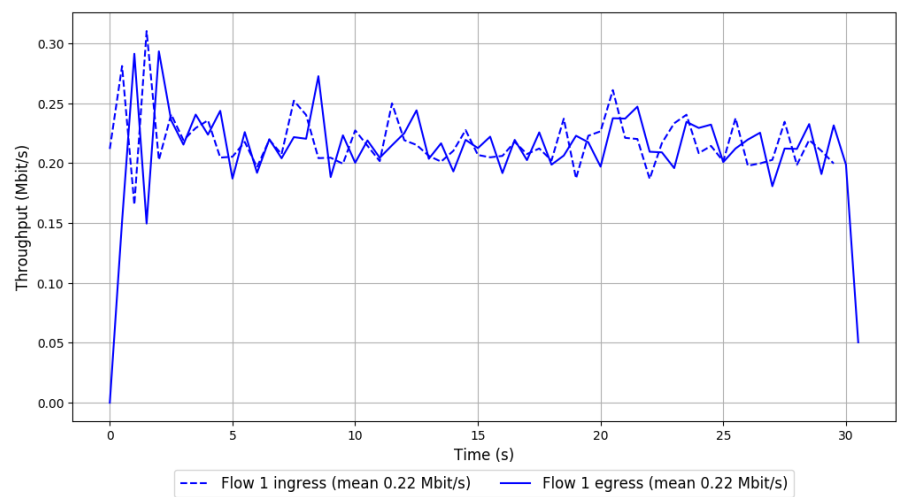
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.005 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-06-30 13:36:32

End at: 2018-06-30 13:37:02

Local clock offset: 0.071 ms

Remote clock offset: 0.147 ms

Below is generated by plot.py at 2018-06-30 15:39:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.453 ms

Loss rate: 0.00%

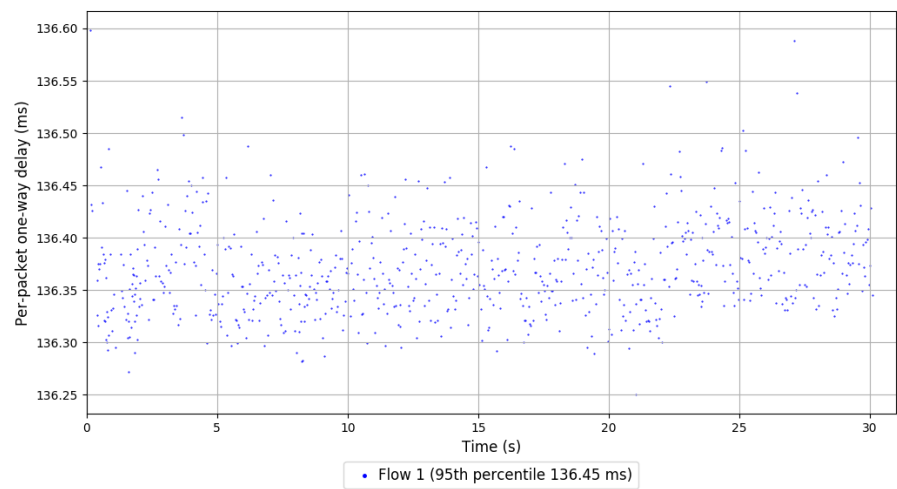
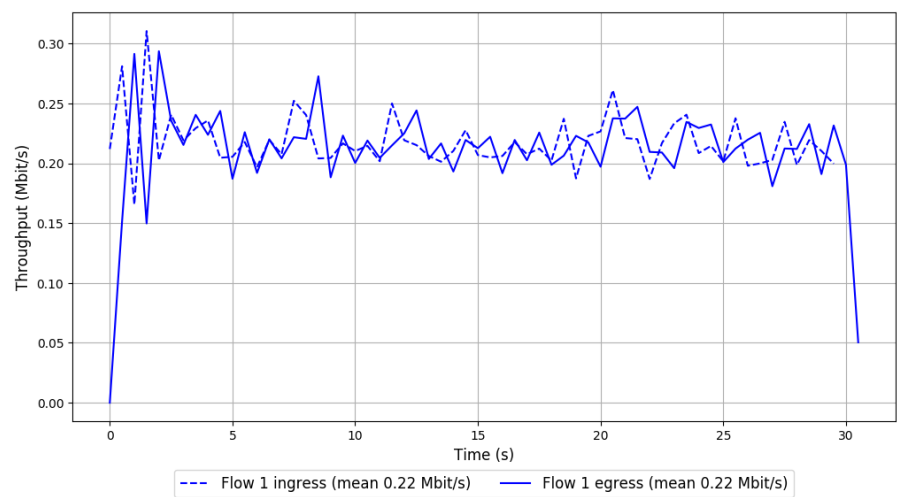
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.453 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-06-30 13:59:01

End at: 2018-06-30 13:59:31

Local clock offset: -0.109 ms

Remote clock offset: 0.006 ms

Below is generated by plot.py at 2018-06-30 15:39:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.889 ms

Loss rate: 0.00%

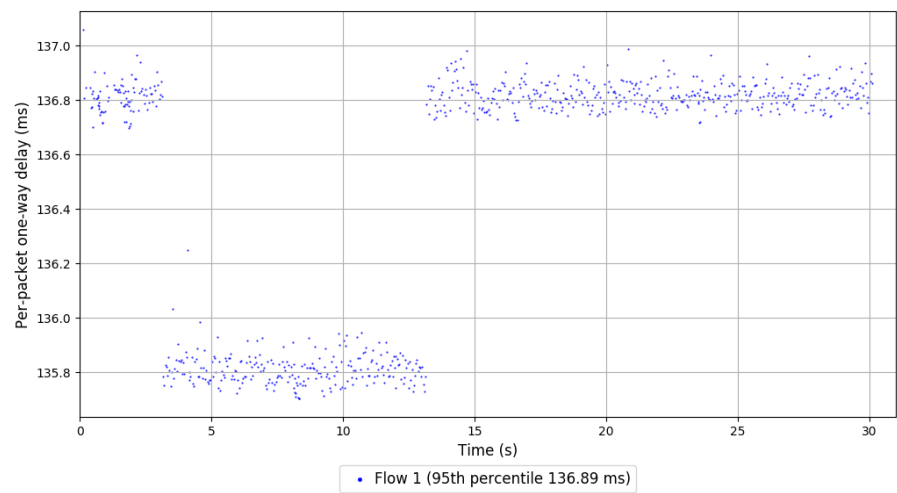
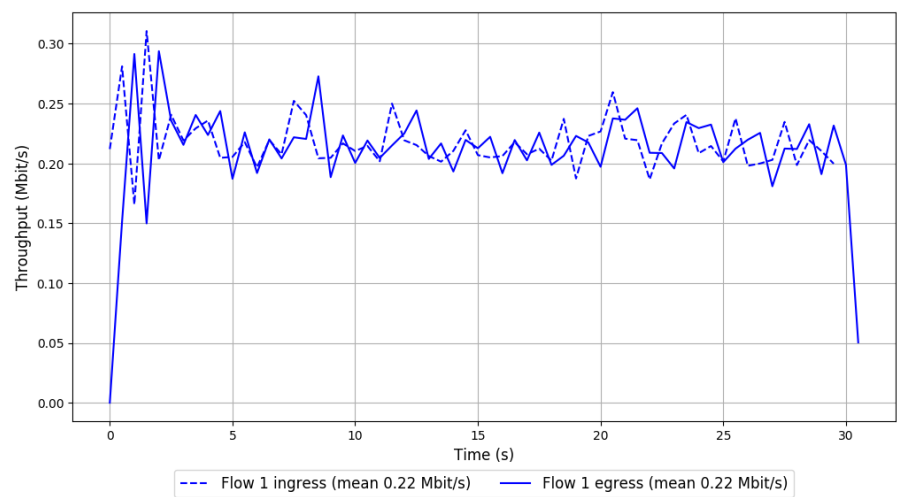
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.889 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

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

End at: 2018-06-30 14:21:51

Local clock offset: -0.131 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2018-06-30 15:39:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.712 ms

Loss rate: 0.00%

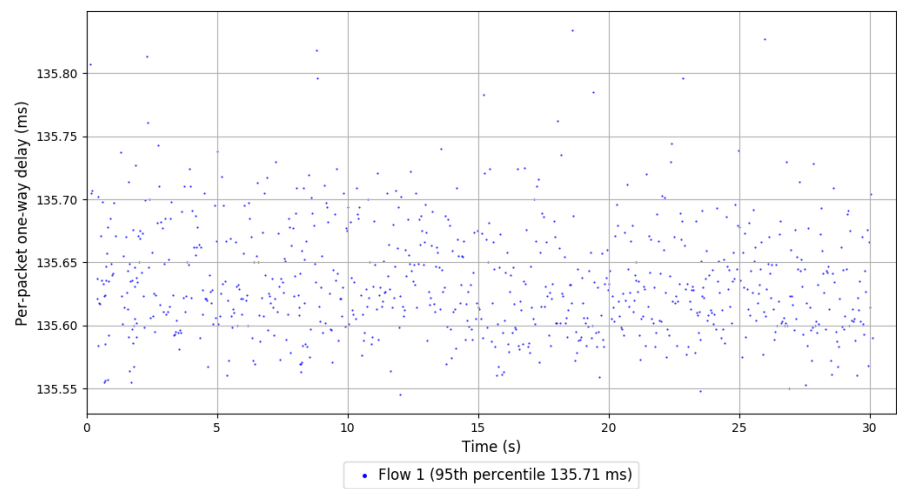
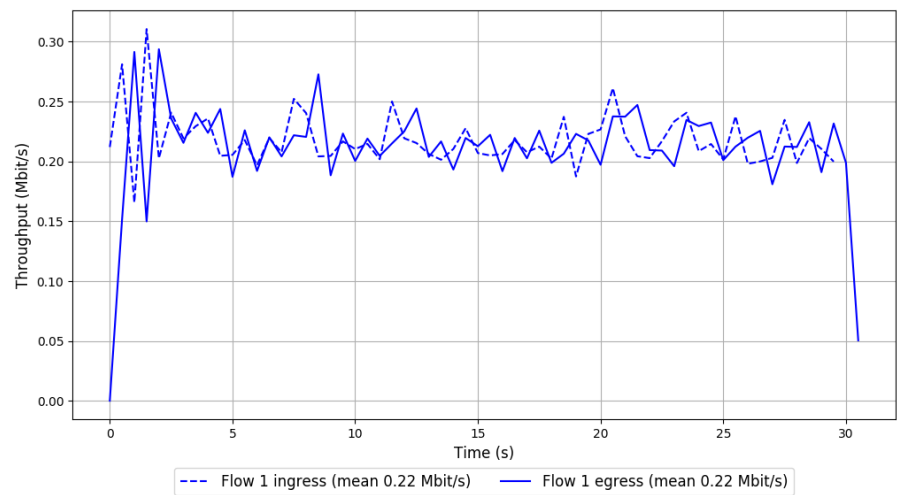
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.712 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-06-30 11:00:26

End at: 2018-06-30 11:00:56

Local clock offset: 0.243 ms

Remote clock offset: 0.058 ms

Below is generated by plot.py at 2018-06-30 15:39:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 136.911 ms

Loss rate: 0.00%

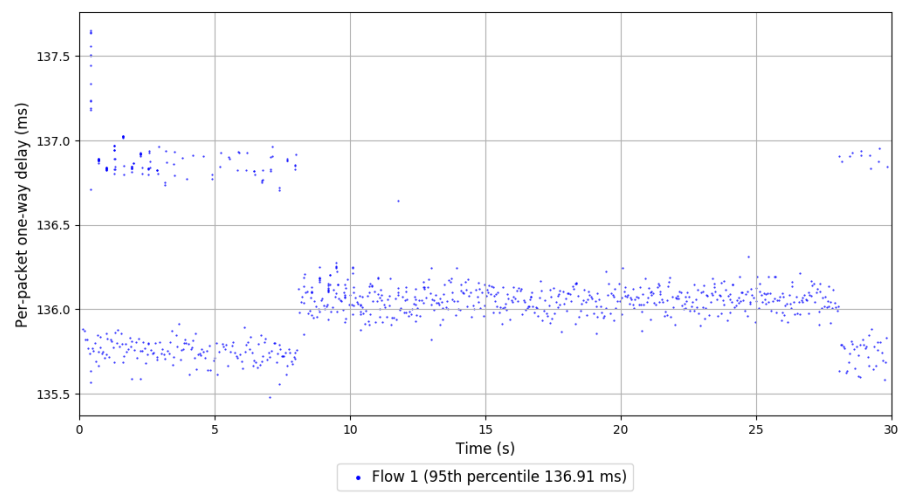
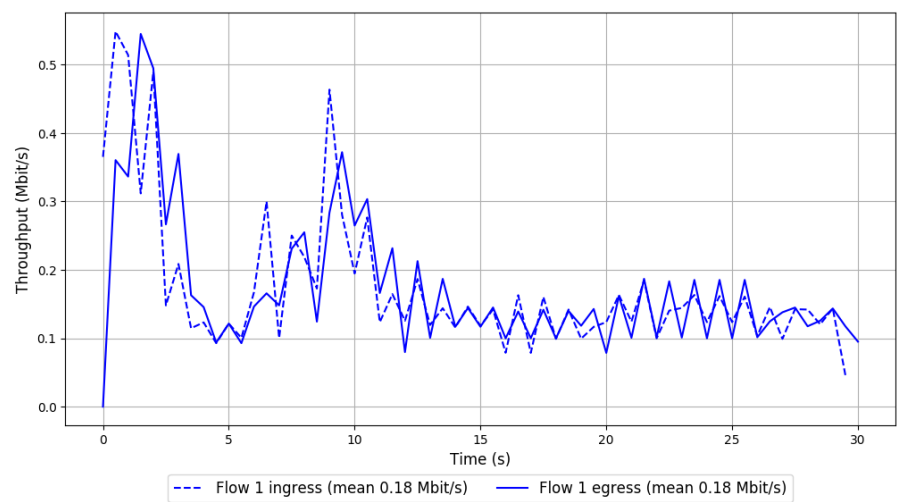
-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 136.911 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-06-30 11:22:49

End at: 2018-06-30 11:23:19

Local clock offset: 0.406 ms

Remote clock offset: 0.129 ms

Below is generated by plot.py at 2018-06-30 15:39:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 136.060 ms

Loss rate: 0.00%

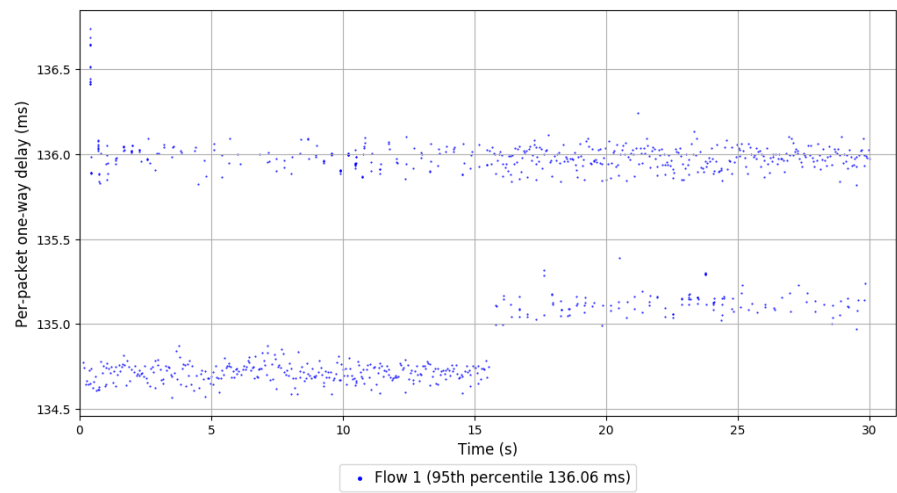
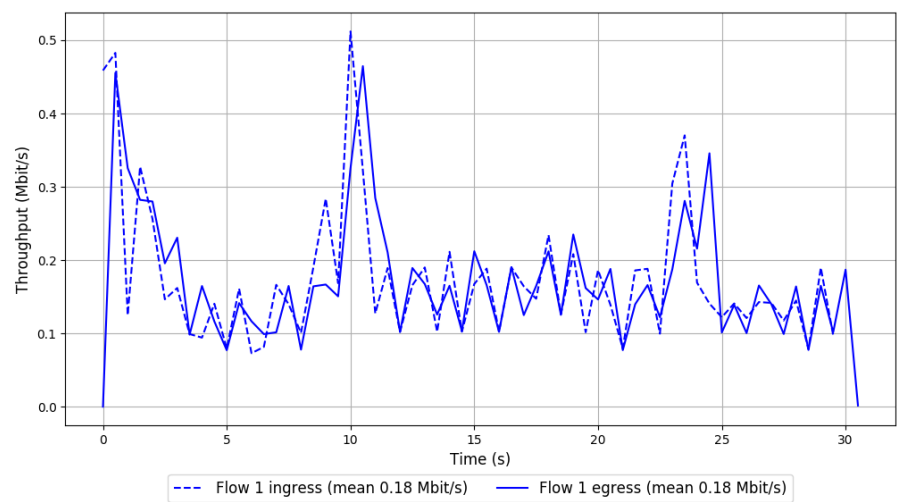
-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 136.060 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

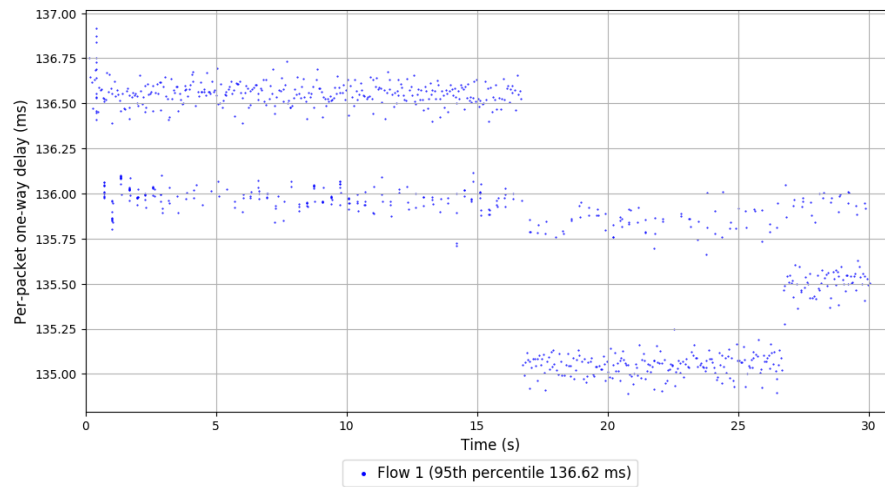
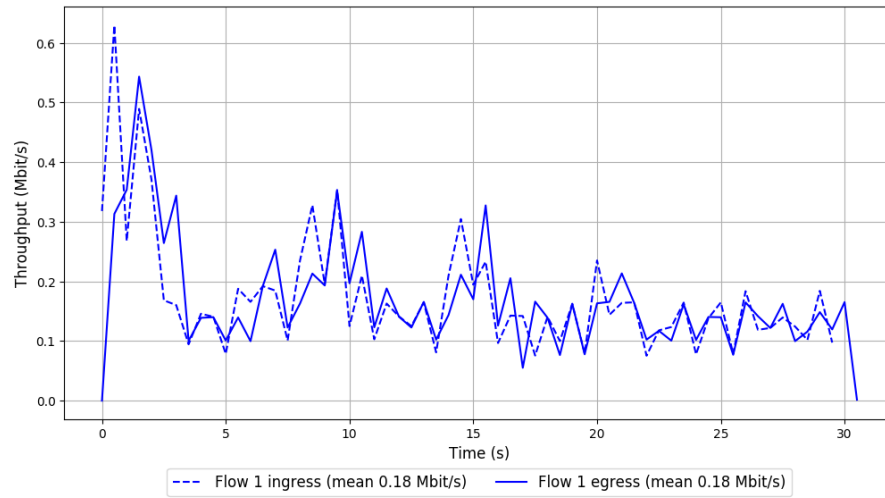


Run 3: Statistics of Sprout

Start at: 2018-06-30 11:45:18
End at: 2018-06-30 11:45:48
Local clock offset: 0.138 ms
Remote clock offset: 0.071 ms

Below is generated by plot.py at 2018-06-30 15:39:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 136.624 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 136.624 ms
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-06-30 12:08:07

End at: 2018-06-30 12:08:37

Local clock offset: 0.006 ms

Remote clock offset: 0.492 ms

Below is generated by plot.py at 2018-06-30 15:39:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 137.177 ms

Loss rate: 0.00%

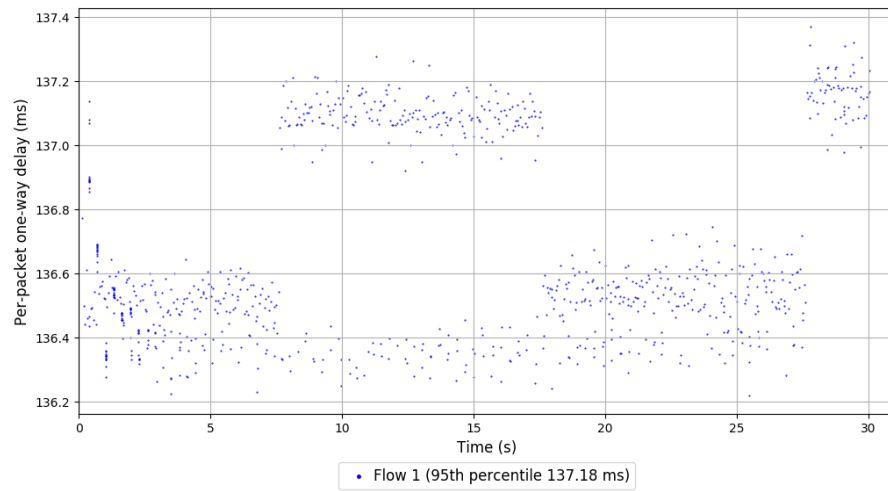
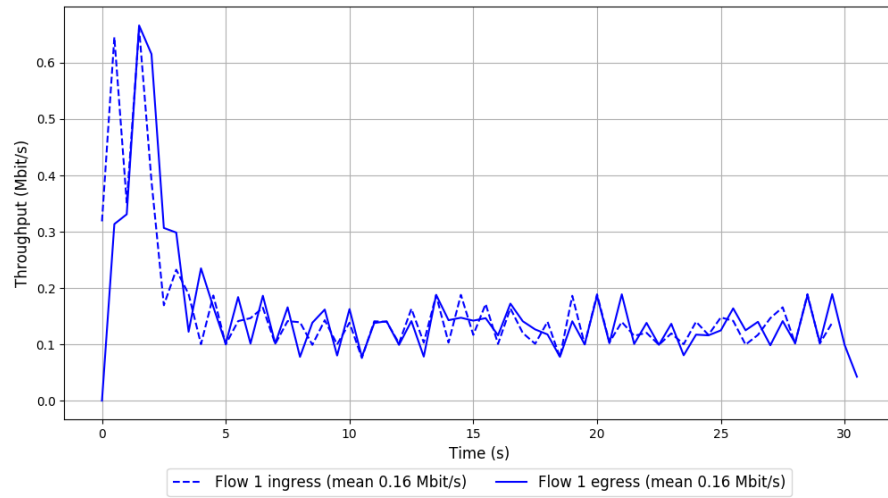
-- Flow 1:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 137.177 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-06-30 12:30:45

End at: 2018-06-30 12:31:15

Local clock offset: -0.179 ms

Remote clock offset: 0.403 ms

Below is generated by plot.py at 2018-06-30 15:39:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 137.375 ms

Loss rate: 0.00%

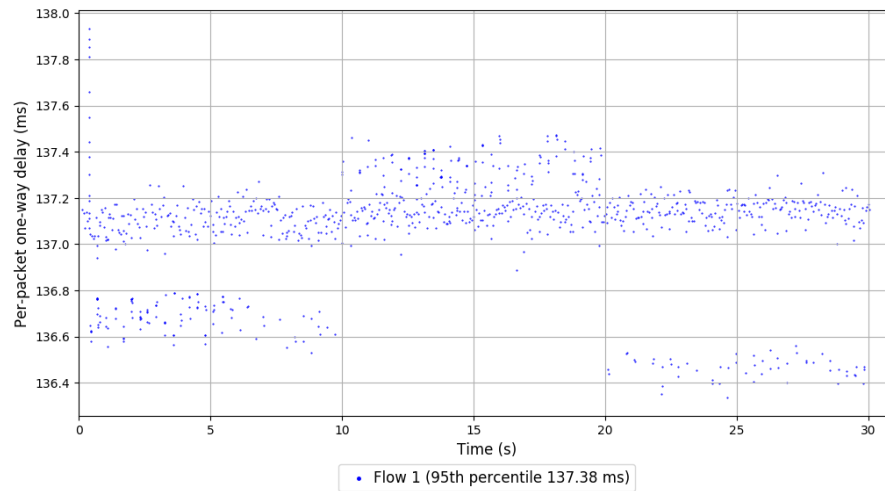
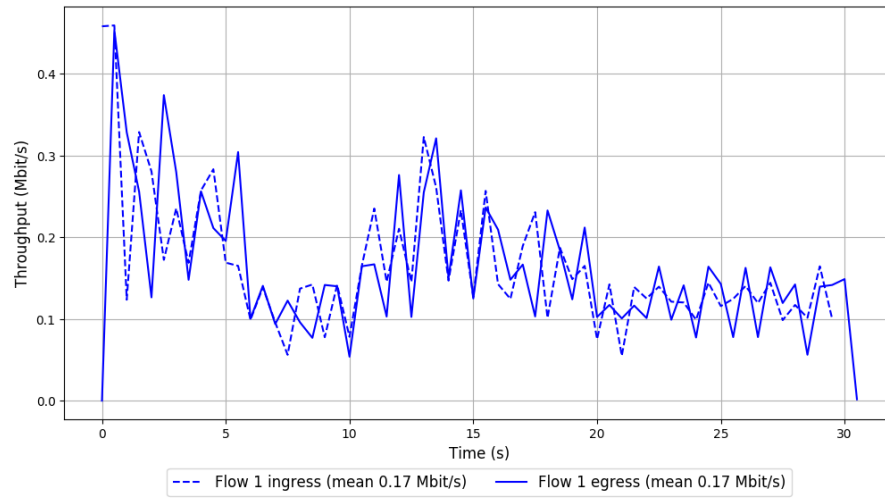
-- Flow 1:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 137.375 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

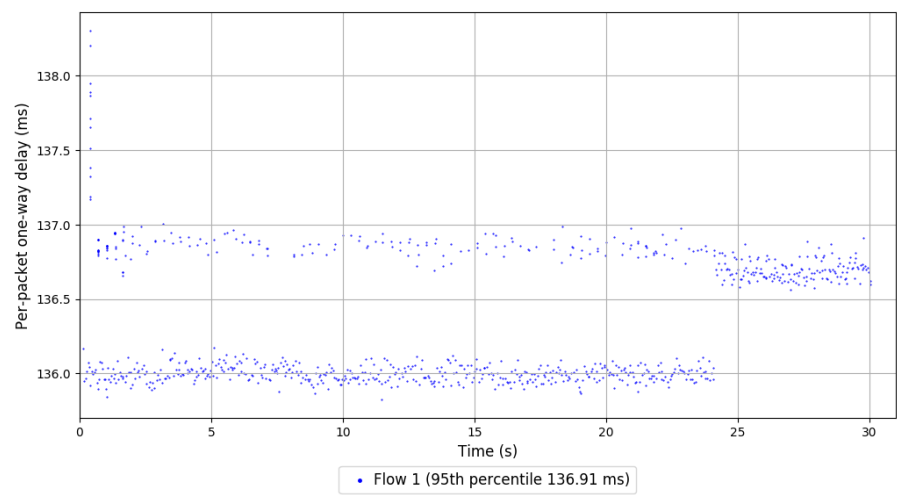
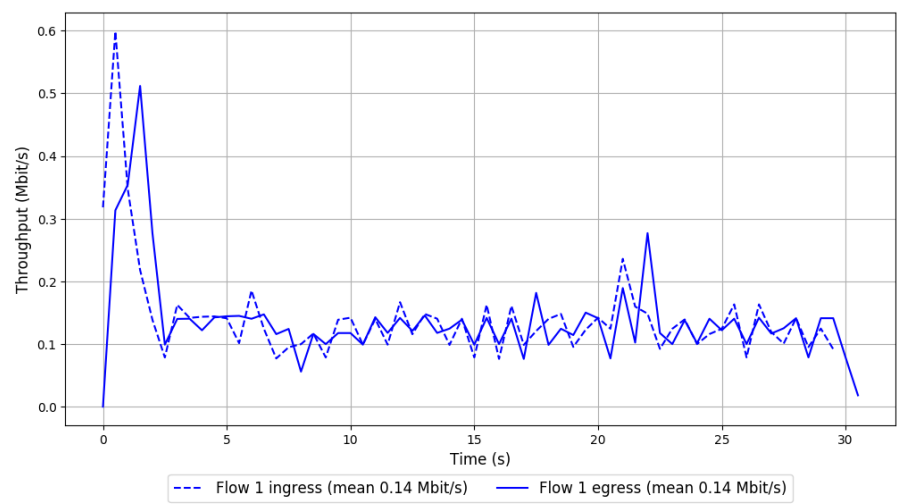


Run 6: Statistics of Sprout

Start at: 2018-06-30 12:53:10
End at: 2018-06-30 12:53:40
Local clock offset: -0.031 ms
Remote clock offset: -0.031 ms

Below is generated by plot.py at 2018-06-30 15:39:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 136.915 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 136.915 ms
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

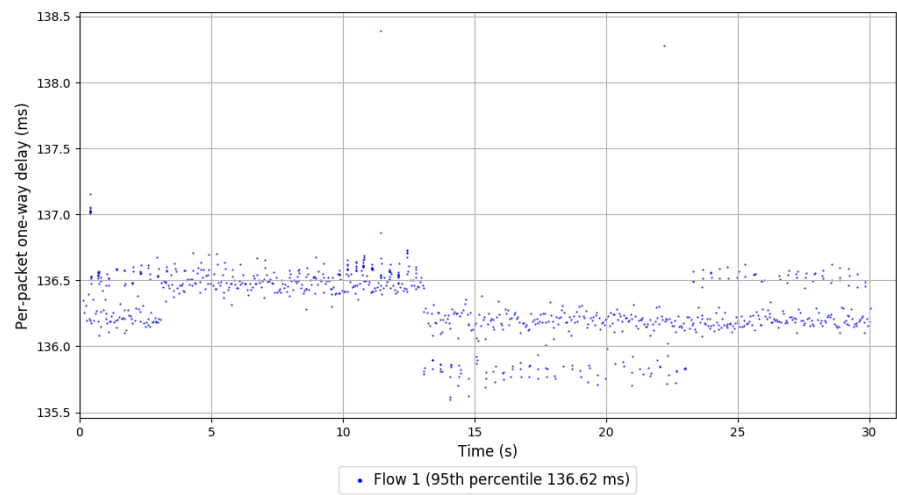
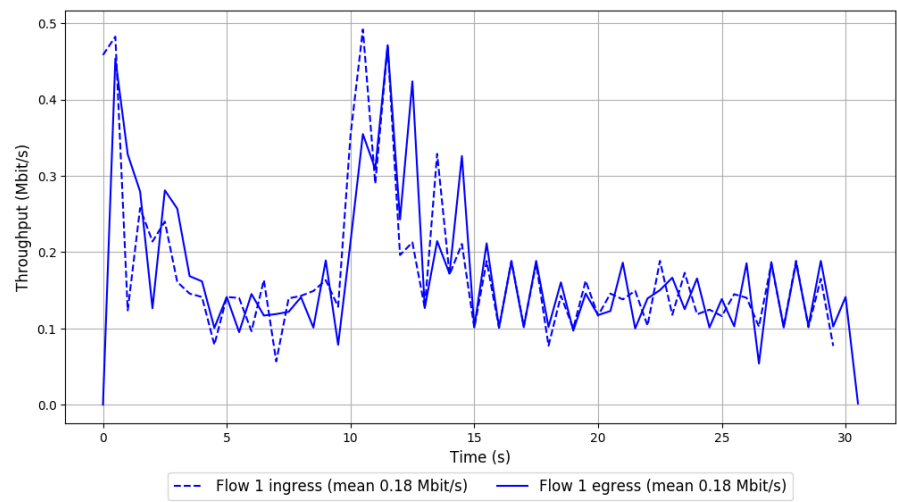


Run 7: Statistics of Sprout

Start at: 2018-06-30 13:15:11
End at: 2018-06-30 13:15:41
Local clock offset: -0.11 ms
Remote clock offset: -0.316 ms

Below is generated by plot.py at 2018-06-30 15:39:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 136.619 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 136.619 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

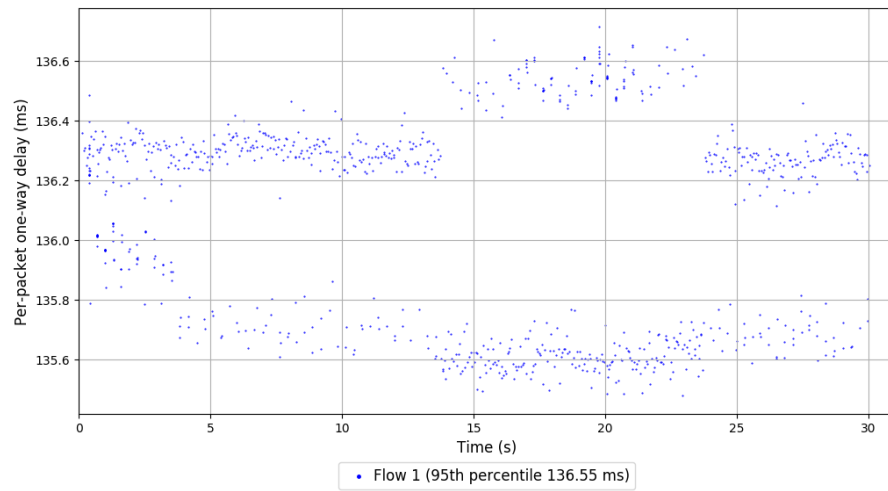
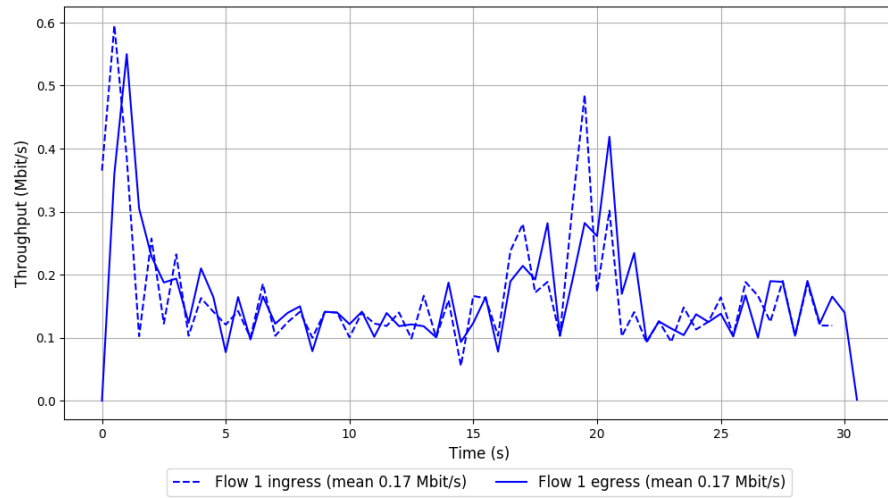


Run 8: Statistics of Sprout

Start at: 2018-06-30 13:37:41
End at: 2018-06-30 13:38:11
Local clock offset: -0.286 ms
Remote clock offset: -0.223 ms

Below is generated by plot.py at 2018-06-30 15:39:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 136.552 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 136.552 ms
Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

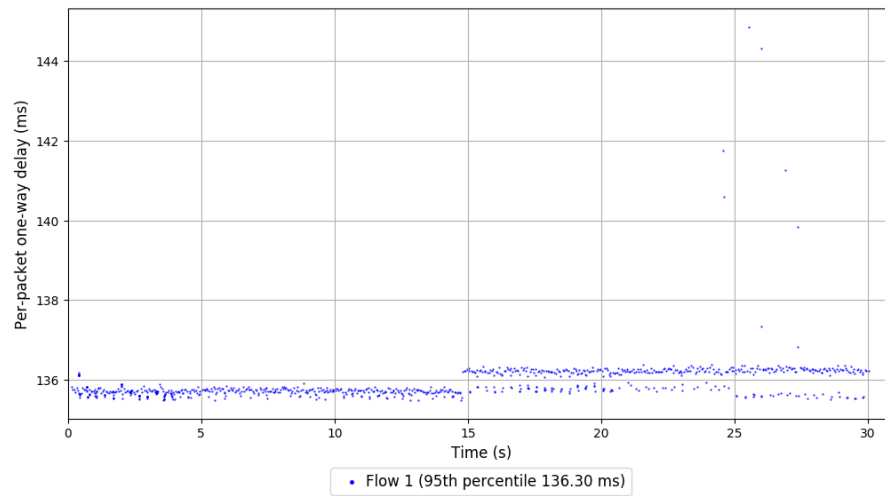
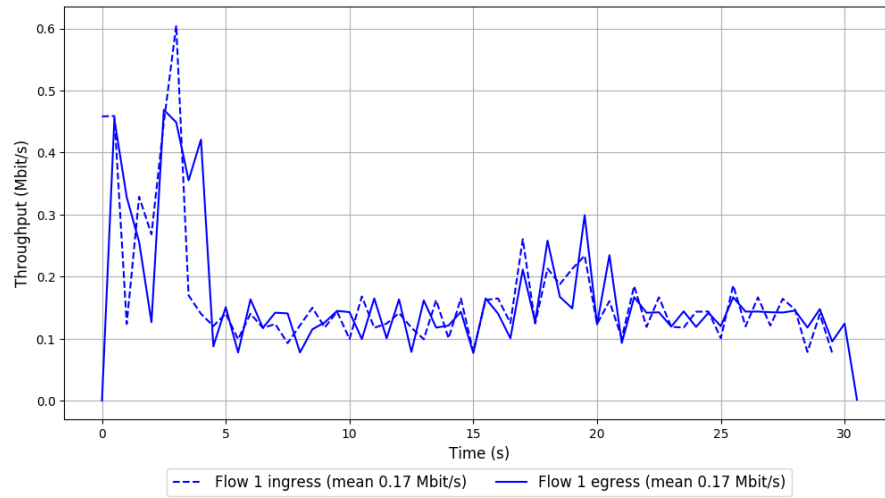


Run 9: Statistics of Sprout

Start at: 2018-06-30 14:00:10
End at: 2018-06-30 14:00:40
Local clock offset: -0.202 ms
Remote clock offset: -0.288 ms

Below is generated by plot.py at 2018-06-30 15:39:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 136.296 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 136.296 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-06-30 14:22:29

End at: 2018-06-30 14:22:59

Local clock offset: -0.197 ms

Remote clock offset: 0.399 ms

Below is generated by plot.py at 2018-06-30 15:39:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 137.096 ms

Loss rate: 0.00%

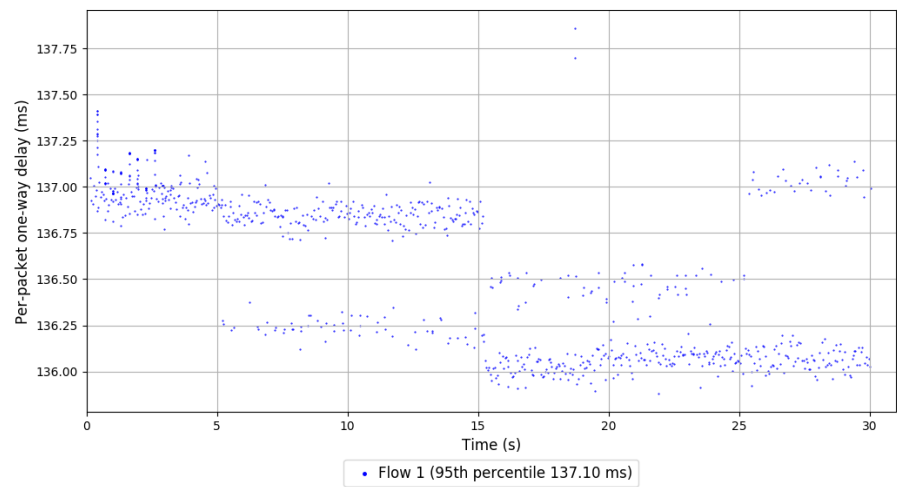
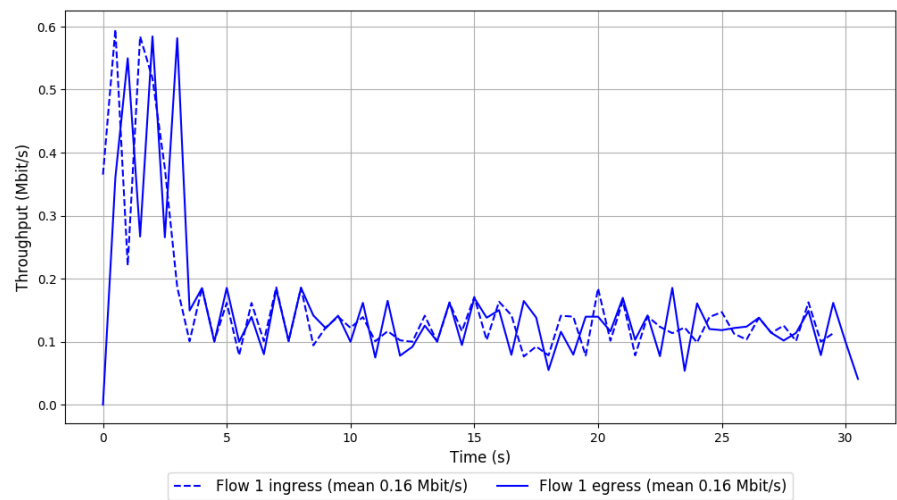
-- Flow 1:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 137.096 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

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

End at: 2018-06-30 11:07:01

Local clock offset: 0.241 ms

Remote clock offset: 0.094 ms

Below is generated by plot.py at 2018-06-30 15:39:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.13 Mbit/s

95th percentile per-packet one-way delay: 136.756 ms

Loss rate: 0.00%

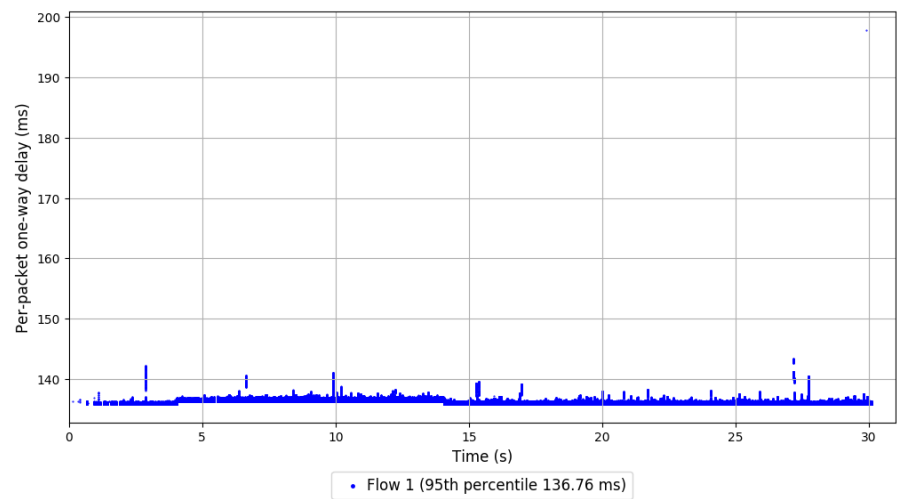
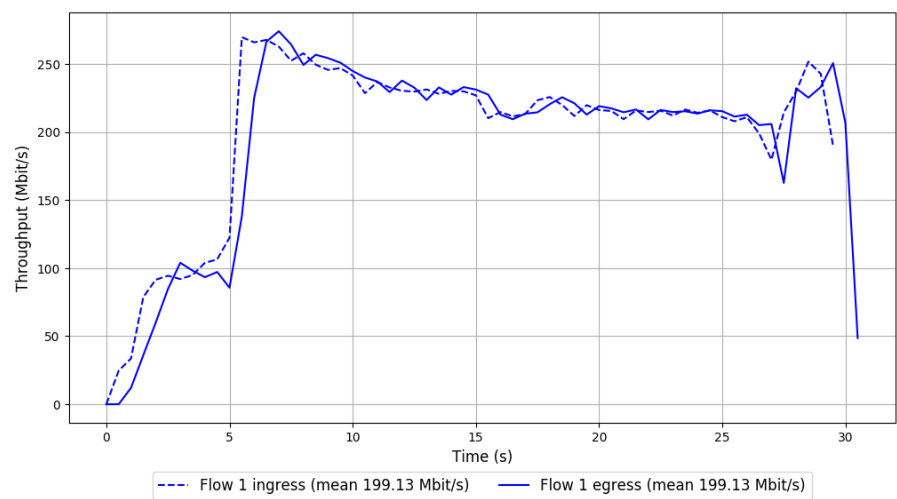
-- Flow 1:

Average throughput: 199.13 Mbit/s

95th percentile per-packet one-way delay: 136.756 ms

Loss rate: 0.00%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-06-30 11:28:56

End at: 2018-06-30 11:29:26

Local clock offset: 0.557 ms

Remote clock offset: 0.079 ms

Below is generated by plot.py at 2018-06-30 15:40:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.01 Mbit/s

95th percentile per-packet one-way delay: 136.593 ms

Loss rate: 0.00%

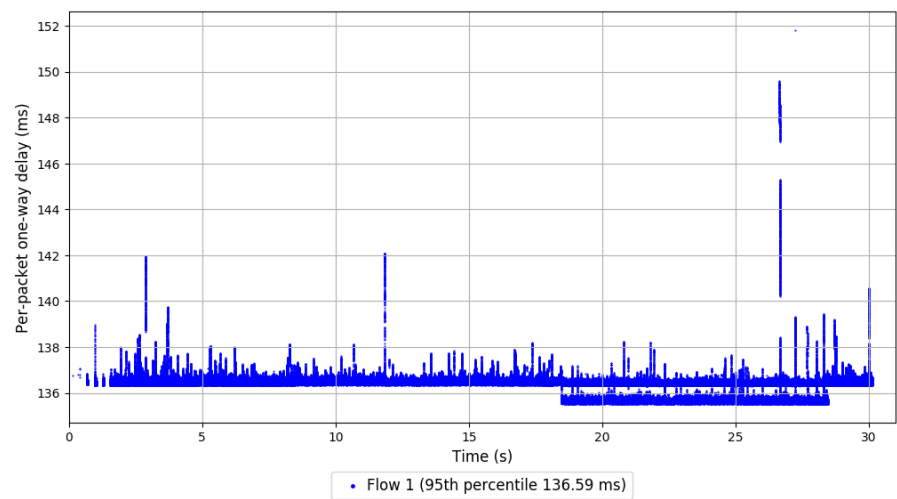
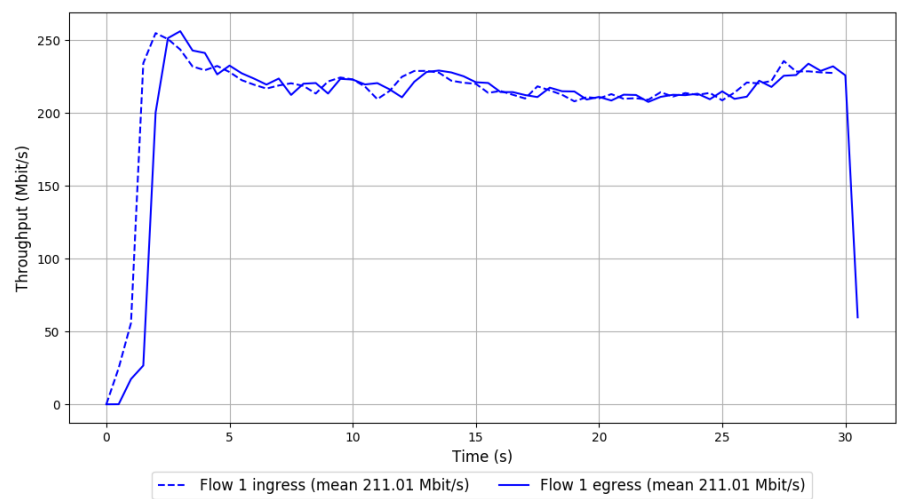
-- Flow 1:

Average throughput: 211.01 Mbit/s

95th percentile per-packet one-way delay: 136.593 ms

Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-06-30 11:51:27

End at: 2018-06-30 11:51:57

Local clock offset: 0.153 ms

Remote clock offset: 0.059 ms

Below is generated by plot.py at 2018-06-30 15:40:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.40 Mbit/s

95th percentile per-packet one-way delay: 135.737 ms

Loss rate: 0.00%

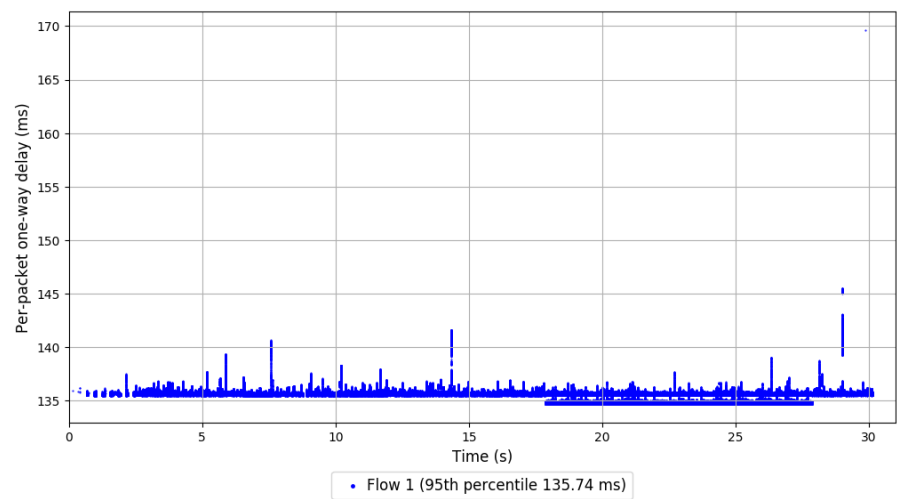
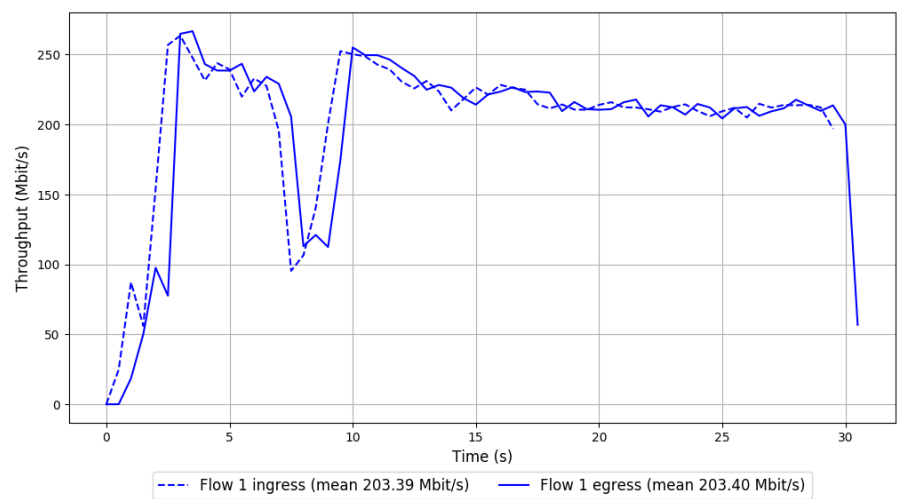
-- Flow 1:

Average throughput: 203.40 Mbit/s

95th percentile per-packet one-way delay: 135.737 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-06-30 12:14:32

End at: 2018-06-30 12:15:02

Local clock offset: 0.037 ms

Remote clock offset: 0.044 ms

Below is generated by plot.py at 2018-06-30 15:40:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.98 Mbit/s

95th percentile per-packet one-way delay: 136.527 ms

Loss rate: 0.00%

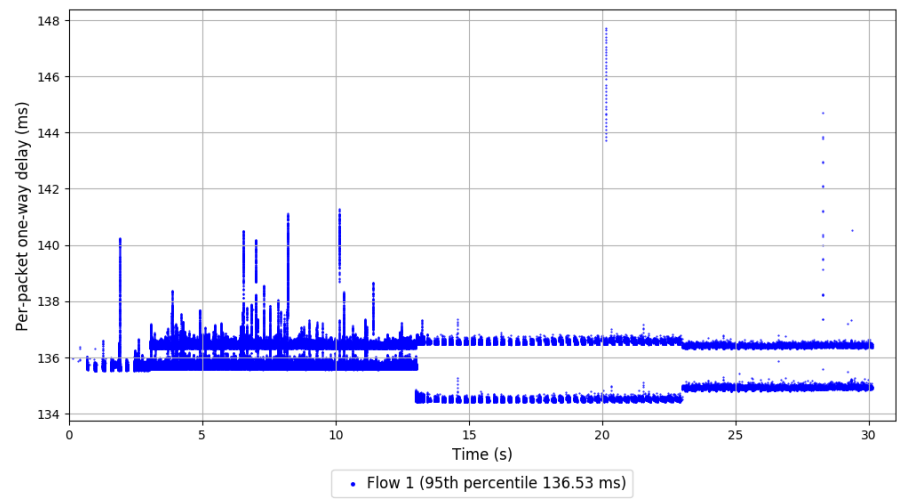
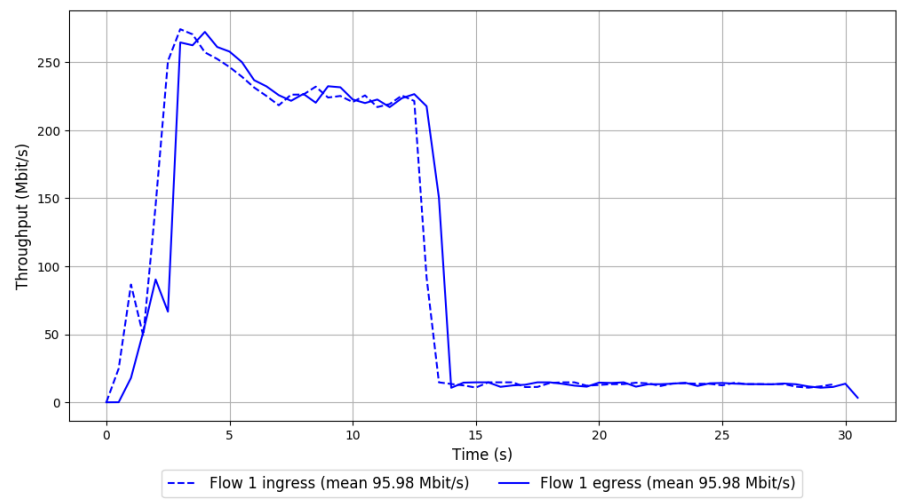
-- Flow 1:

Average throughput: 95.98 Mbit/s

95th percentile per-packet one-way delay: 136.527 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

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

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

Local clock offset: 0.093 ms

Remote clock offset: 0.019 ms

Below is generated by plot.py at 2018-06-30 15:40:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.41 Mbit/s

95th percentile per-packet one-way delay: 136.624 ms

Loss rate: 0.00%

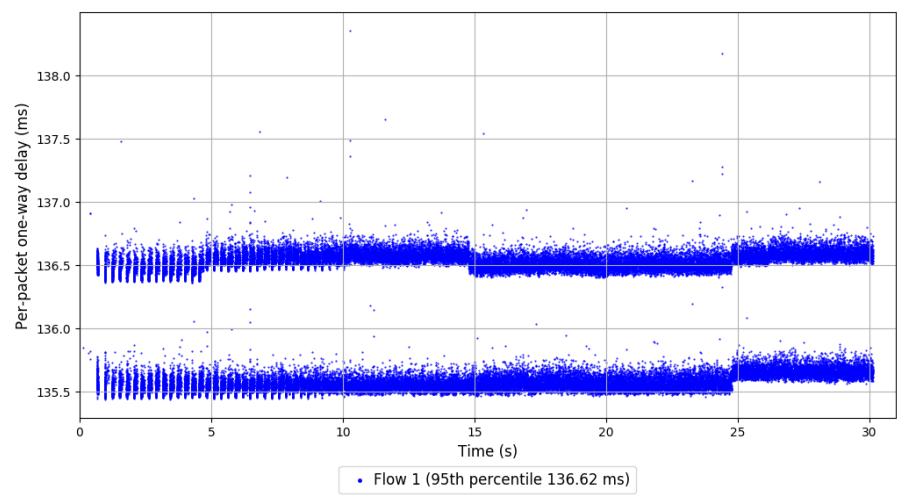
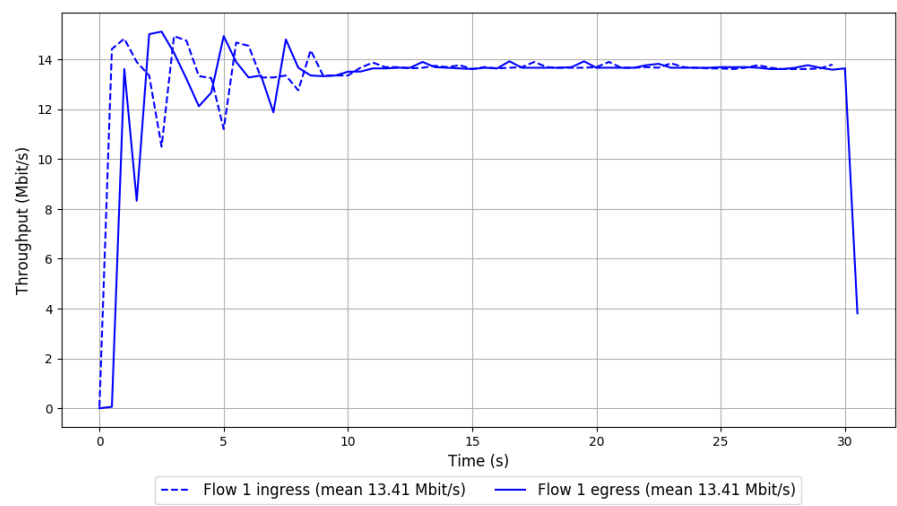
-- Flow 1:

Average throughput: 13.41 Mbit/s

95th percentile per-packet one-way delay: 136.624 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-06-30 12:59:18

End at: 2018-06-30 12:59:48

Local clock offset: -0.082 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2018-06-30 15:43:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.45 Mbit/s

95th percentile per-packet one-way delay: 136.820 ms

Loss rate: 0.00%

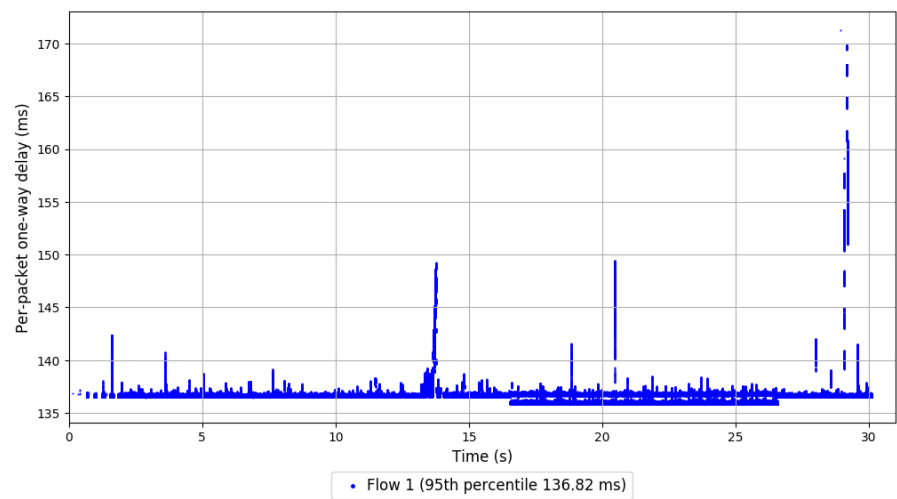
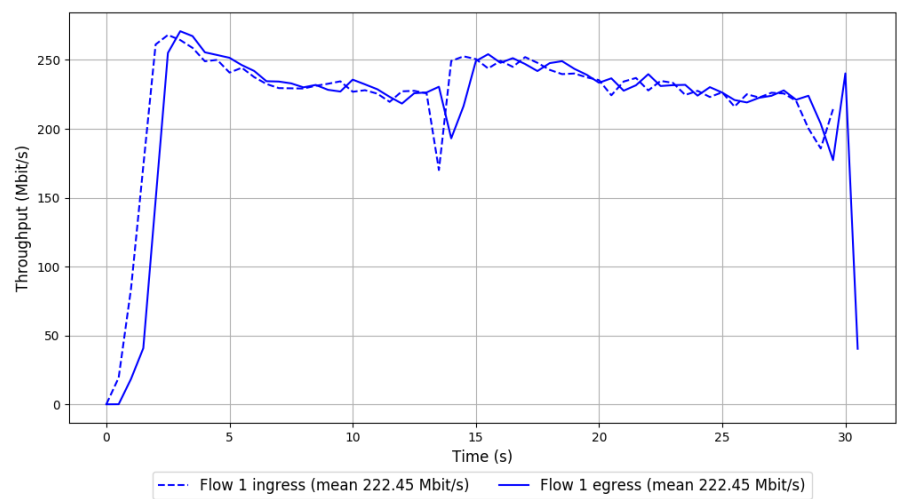
-- Flow 1:

Average throughput: 222.45 Mbit/s

95th percentile per-packet one-way delay: 136.820 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-06-30 13:21:29

End at: 2018-06-30 13:21:59

Local clock offset: -0.097 ms

Remote clock offset: 0.455 ms

Below is generated by plot.py at 2018-06-30 15:44:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.41 Mbit/s

95th percentile per-packet one-way delay: 137.109 ms

Loss rate: 0.00%

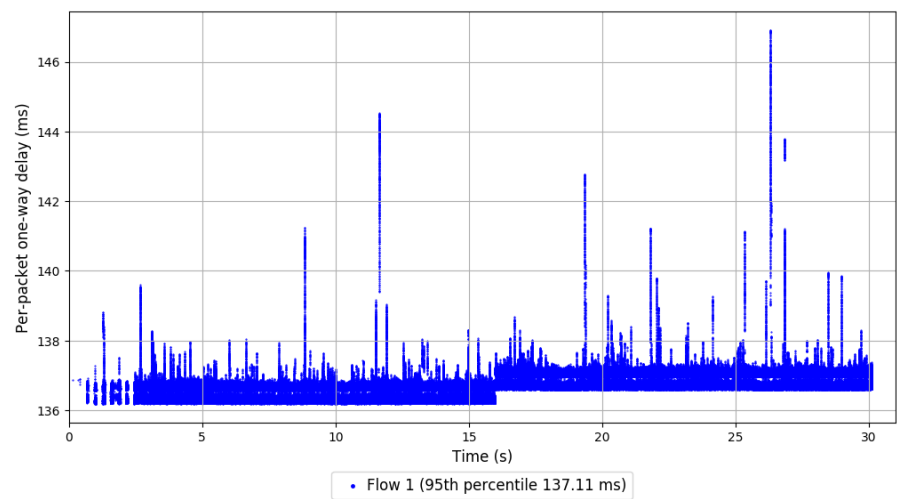
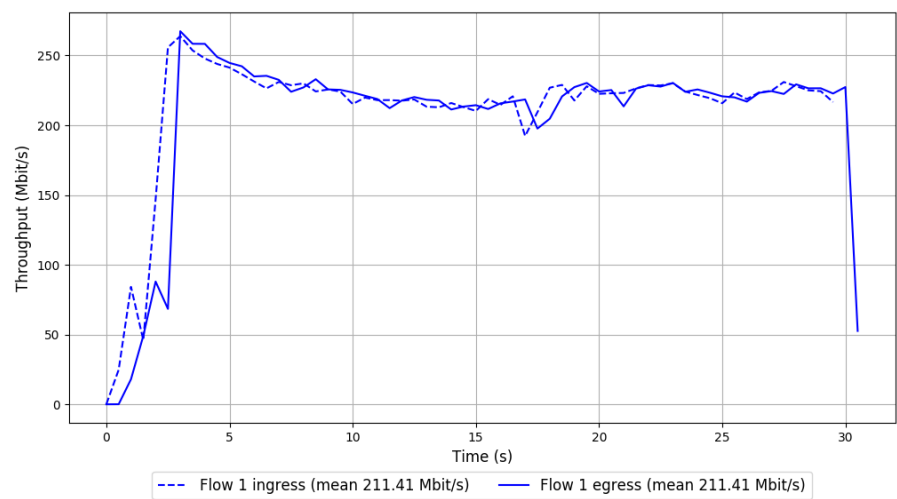
-- Flow 1:

Average throughput: 211.41 Mbit/s

95th percentile per-packet one-way delay: 137.109 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-06-30 13:43:50

End at: 2018-06-30 13:44:20

Local clock offset: -0.146 ms

Remote clock offset: 0.596 ms

Below is generated by plot.py at 2018-06-30 15:44:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.77 Mbit/s

95th percentile per-packet one-way delay: 136.983 ms

Loss rate: 0.00%

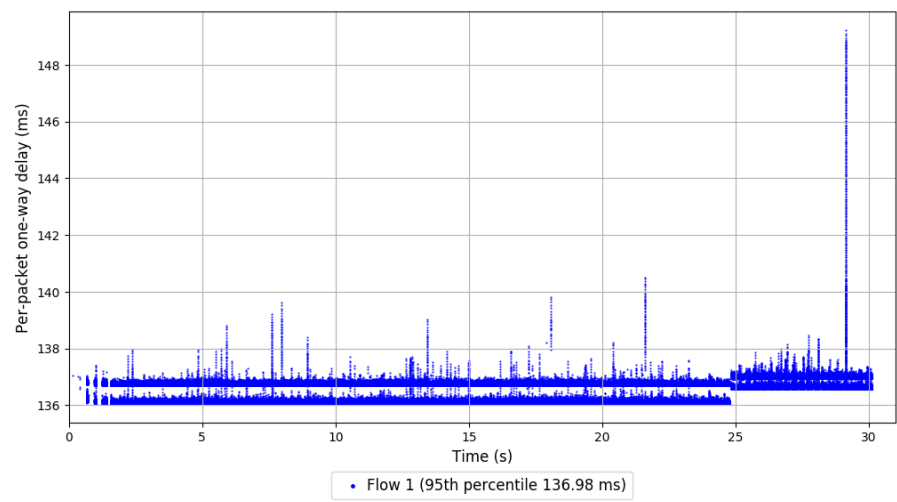
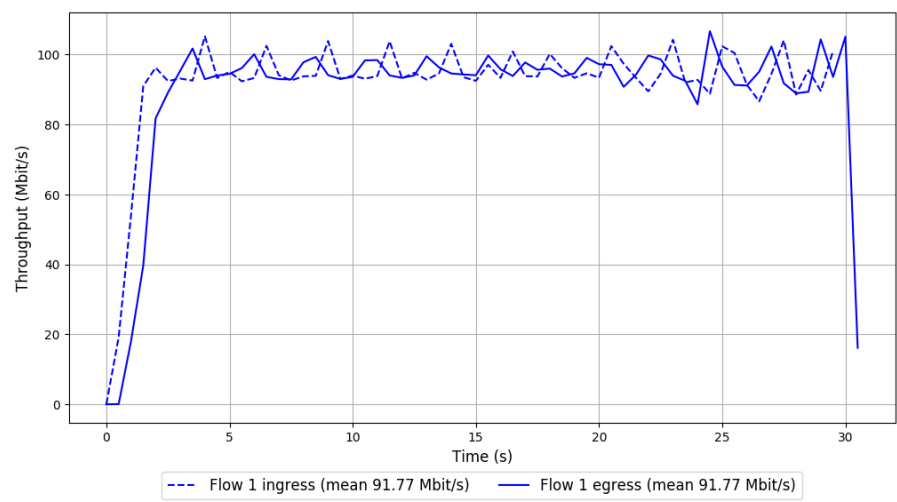
-- Flow 1:

Average throughput: 91.77 Mbit/s

95th percentile per-packet one-way delay: 136.983 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

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

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

Local clock offset: -0.102 ms

Remote clock offset: 0.084 ms

Below is generated by plot.py at 2018-06-30 15:44:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.40 Mbit/s

95th percentile per-packet one-way delay: 136.654 ms

Loss rate: 0.00%

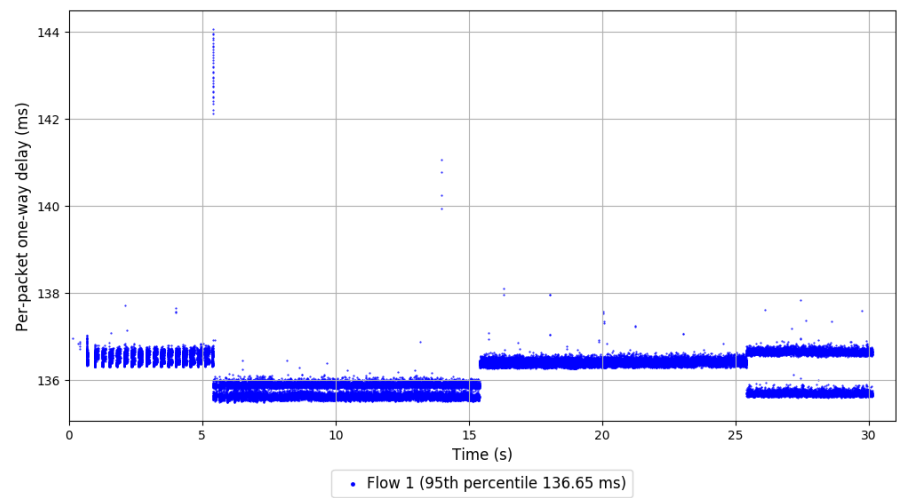
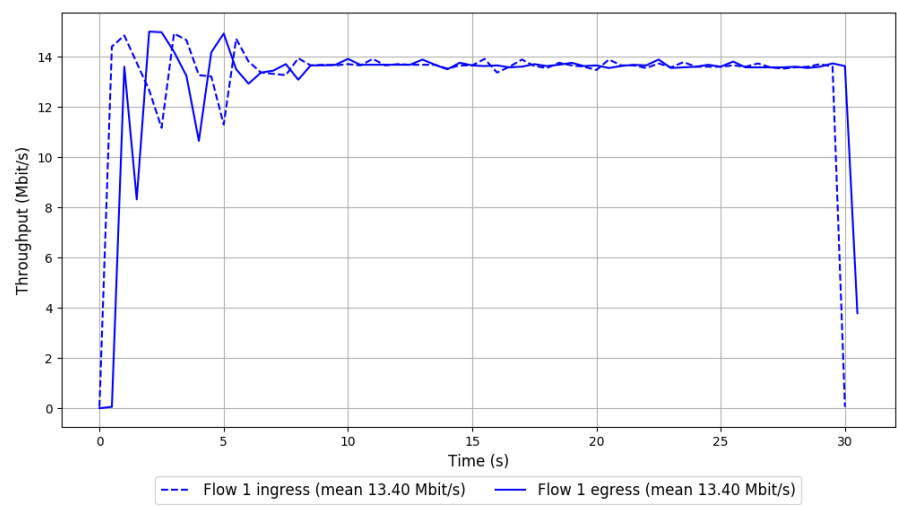
-- Flow 1:

Average throughput: 13.40 Mbit/s

95th percentile per-packet one-way delay: 136.654 ms

Loss rate: 0.00%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-06-30 14:28:43

End at: 2018-06-30 14:29:13

Local clock offset: -0.252 ms

Remote clock offset: 0.427 ms

Below is generated by plot.py at 2018-06-30 15:45:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.06 Mbit/s

95th percentile per-packet one-way delay: 136.969 ms

Loss rate: 0.00%

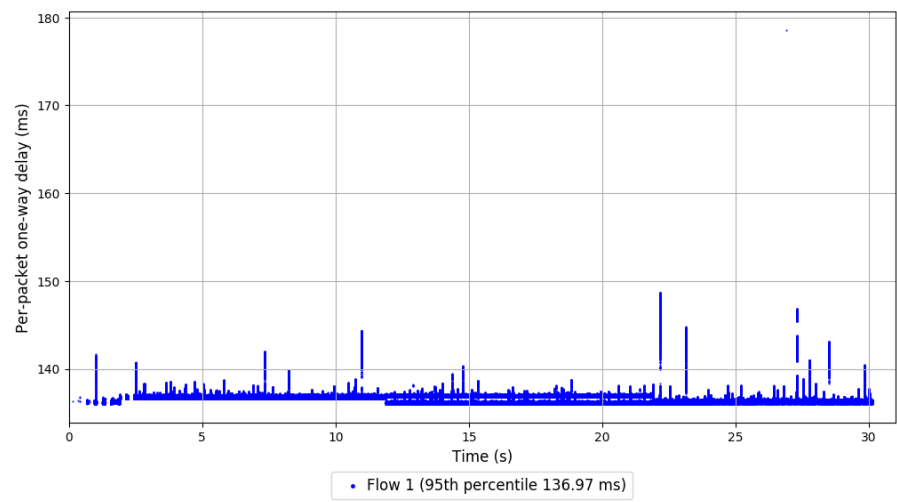
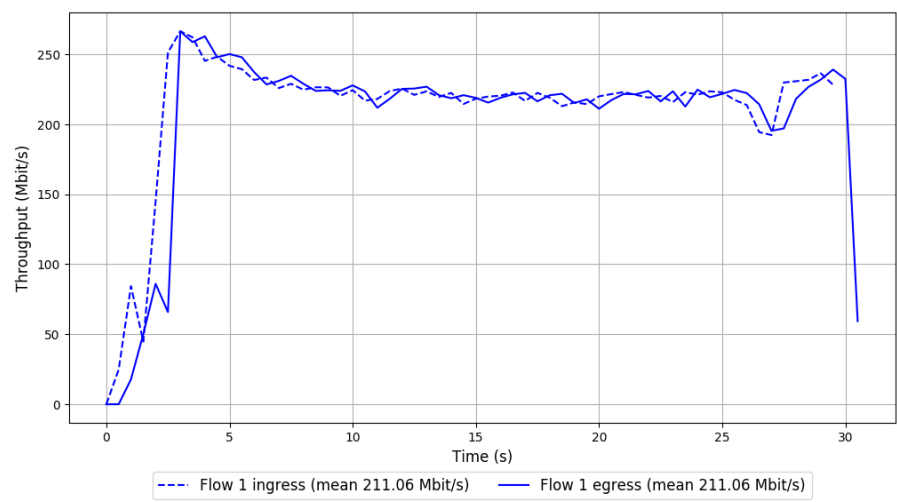
-- Flow 1:

Average throughput: 211.06 Mbit/s

95th percentile per-packet one-way delay: 136.969 ms

Loss rate: 0.00%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-06-30 11:02:58

End at: 2018-06-30 11:03:28

Local clock offset: 0.215 ms

Remote clock offset: 0.063 ms

Below is generated by plot.py at 2018-06-30 15:45:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.32 Mbit/s

95th percentile per-packet one-way delay: 138.315 ms

Loss rate: 0.00%

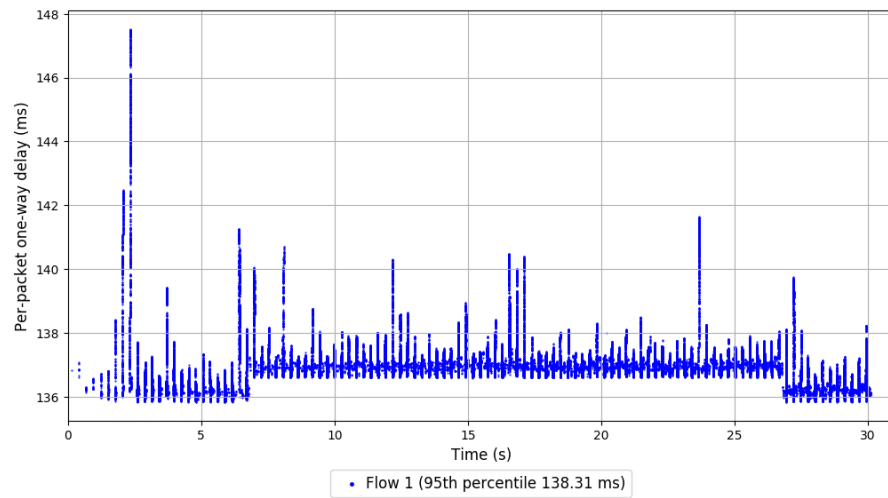
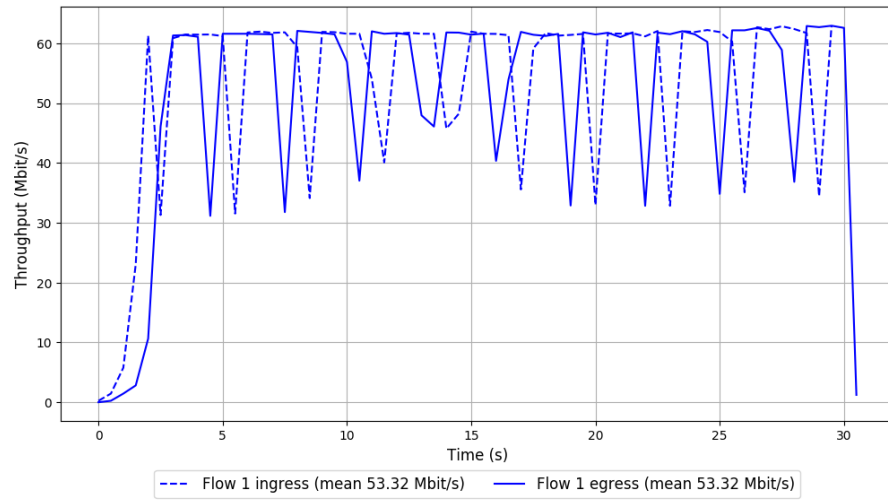
-- Flow 1:

Average throughput: 53.32 Mbit/s

95th percentile per-packet one-way delay: 138.315 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link

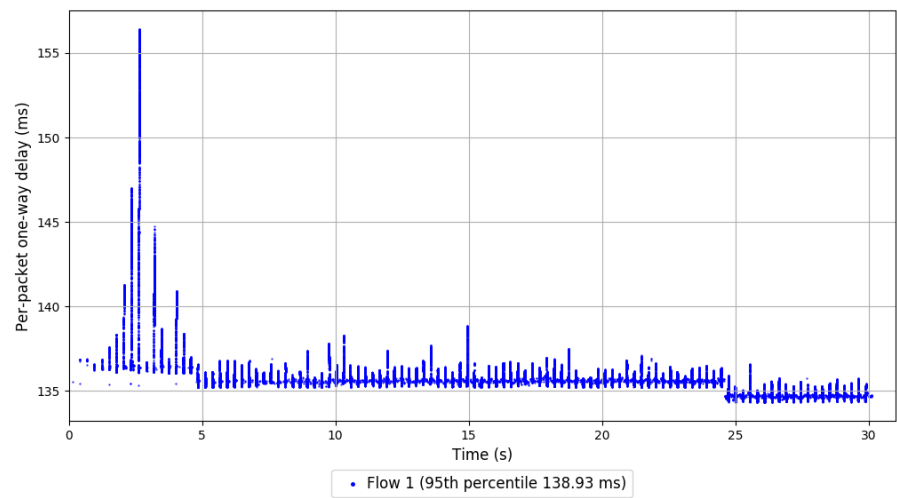
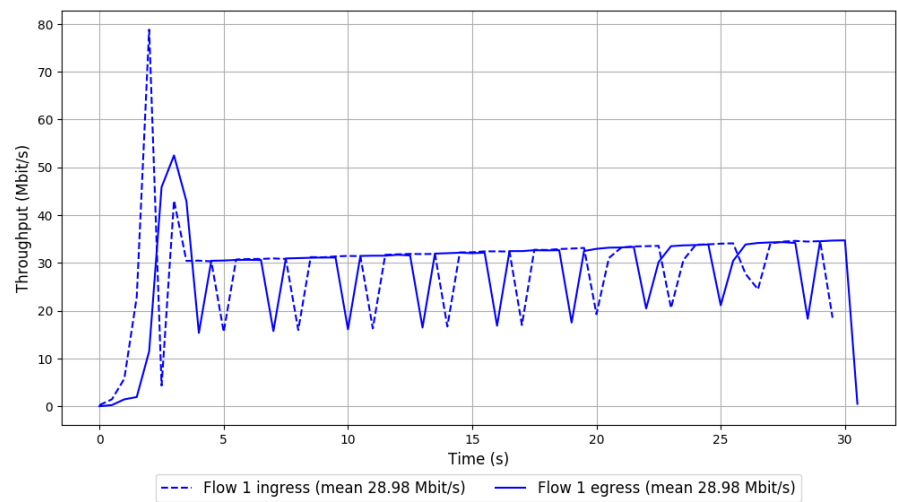


Run 2: Statistics of TCP Vegas

Start at: 2018-06-30 11:25:20
End at: 2018-06-30 11:25:50
Local clock offset: 0.522 ms
Remote clock offset: -0.249 ms

Below is generated by plot.py at 2018-06-30 15:45:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 28.98 Mbit/s
95th percentile per-packet one-way delay: 138.930 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 28.98 Mbit/s
95th percentile per-packet one-way delay: 138.930 ms
Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-06-30 11:47:51

End at: 2018-06-30 11:48:21

Local clock offset: 0.335 ms

Remote clock offset: 0.096 ms

Below is generated by plot.py at 2018-06-30 15:45:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.44 Mbit/s

95th percentile per-packet one-way delay: 137.273 ms

Loss rate: 0.00%

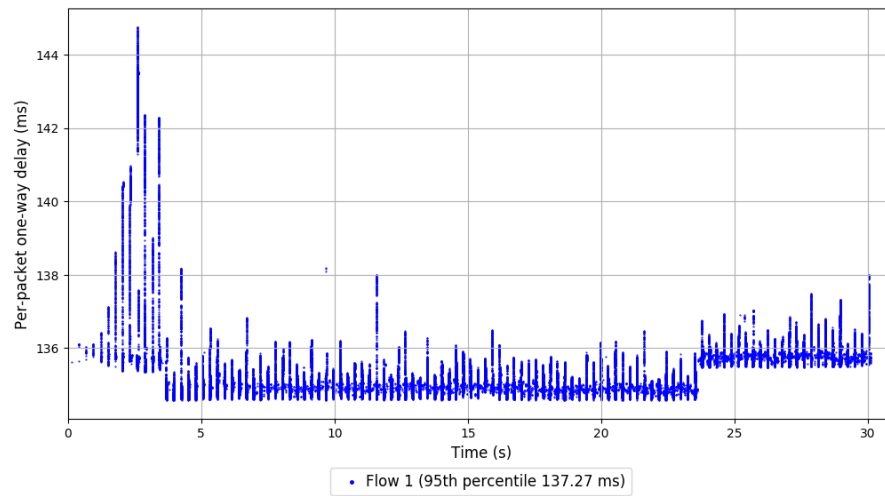
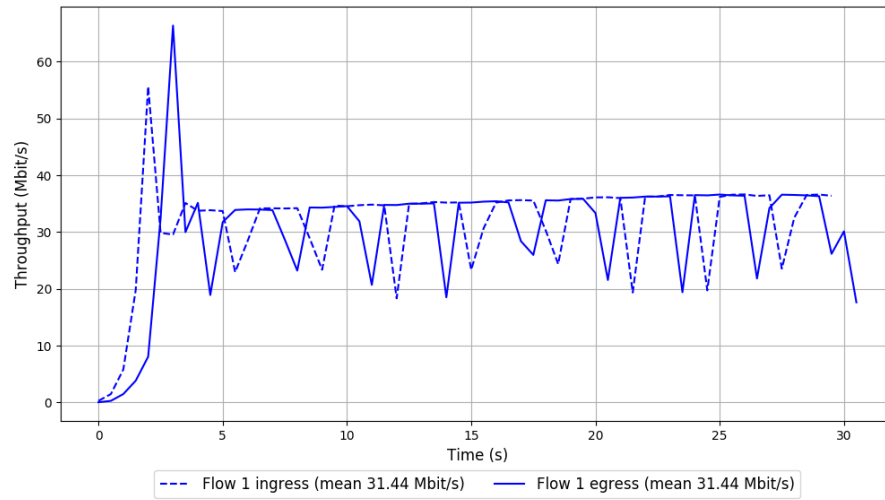
-- Flow 1:

Average throughput: 31.44 Mbit/s

95th percentile per-packet one-way delay: 137.273 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-06-30 12:10:48

End at: 2018-06-30 12:11:18

Local clock offset: 0.073 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2018-06-30 15:45:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.65 Mbit/s

95th percentile per-packet one-way delay: 137.741 ms

Loss rate: 0.00%

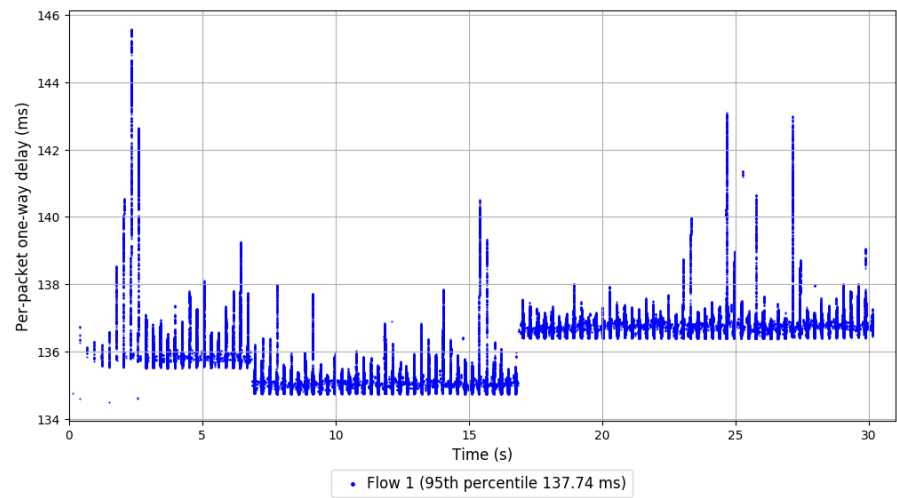
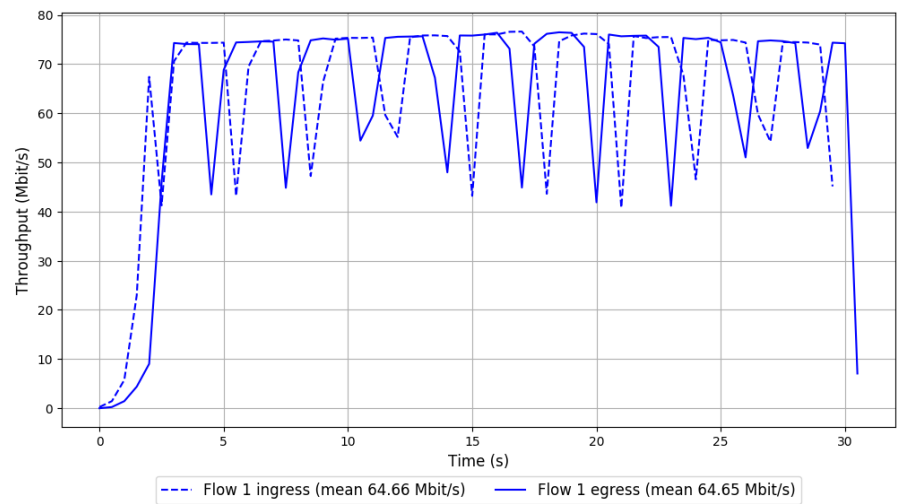
-- Flow 1:

Average throughput: 64.65 Mbit/s

95th percentile per-packet one-way delay: 137.741 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-06-30 12:33:24

End at: 2018-06-30 12:33:54

Local clock offset: 0.223 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2018-06-30 15:45:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.98 Mbit/s

95th percentile per-packet one-way delay: 138.290 ms

Loss rate: 0.00%

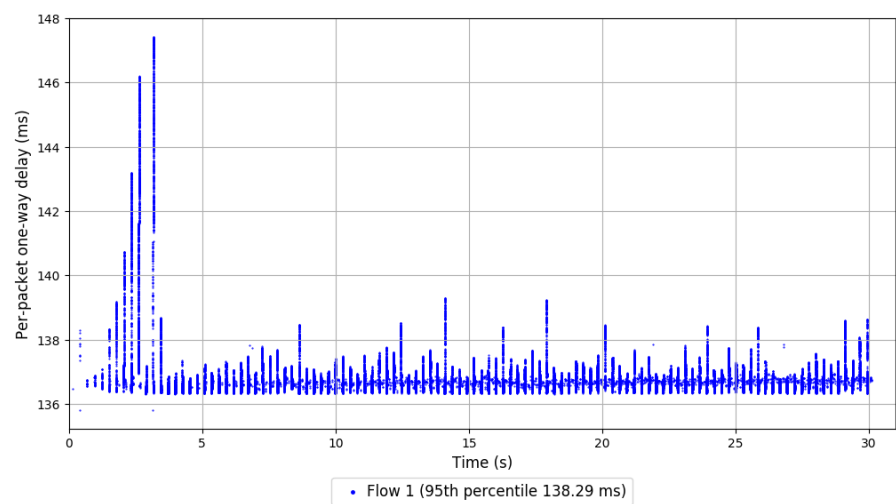
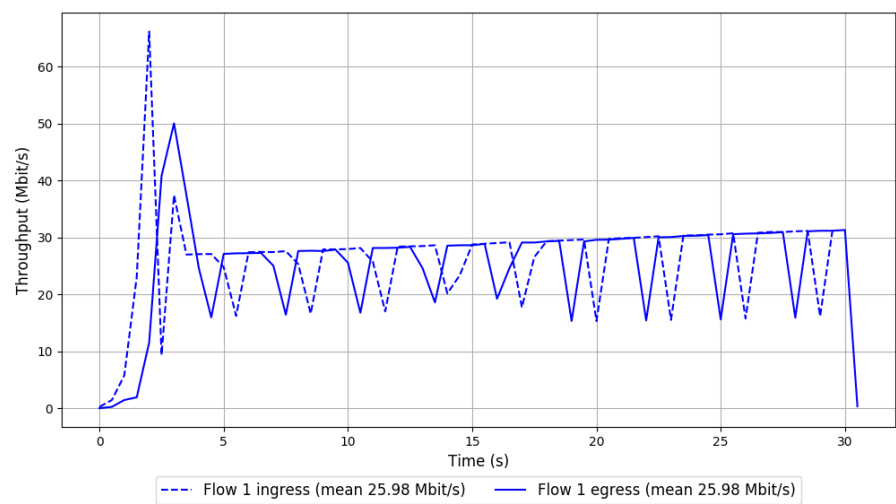
-- Flow 1:

Average throughput: 25.98 Mbit/s

95th percentile per-packet one-way delay: 138.290 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link

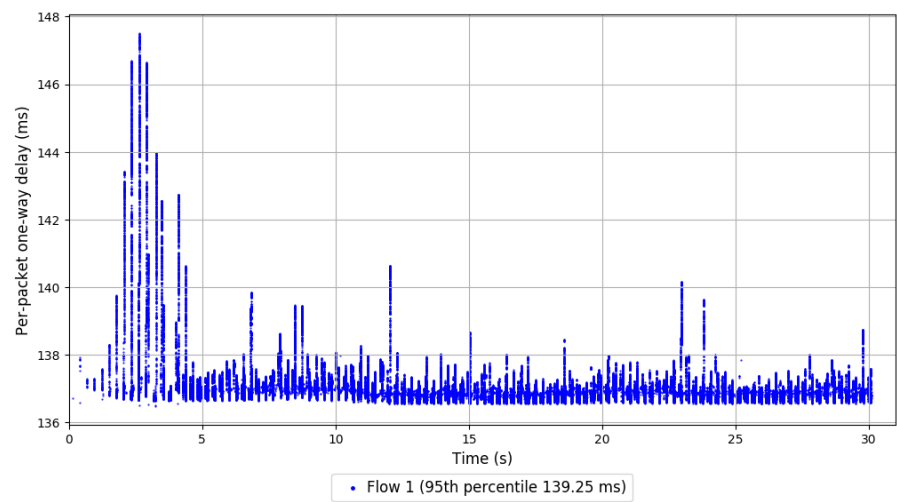
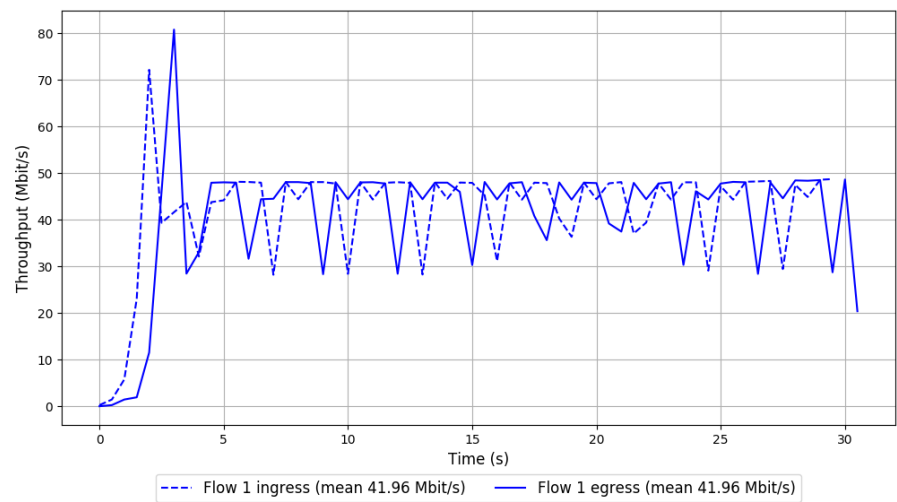


Run 6: Statistics of TCP Vegas

Start at: 2018-06-30 12:55:44
End at: 2018-06-30 12:56:14
Local clock offset: -0.109 ms
Remote clock offset: -0.006 ms

Below is generated by plot.py at 2018-06-30 15:45:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 41.96 Mbit/s
95th percentile per-packet one-way delay: 139.247 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.96 Mbit/s
95th percentile per-packet one-way delay: 139.247 ms
Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-06-30 13:17:51

End at: 2018-06-30 13:18:21

Local clock offset: -0.118 ms

Remote clock offset: 0.07 ms

Below is generated by plot.py at 2018-06-30 15:45:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.69 Mbit/s

95th percentile per-packet one-way delay: 138.225 ms

Loss rate: 0.00%

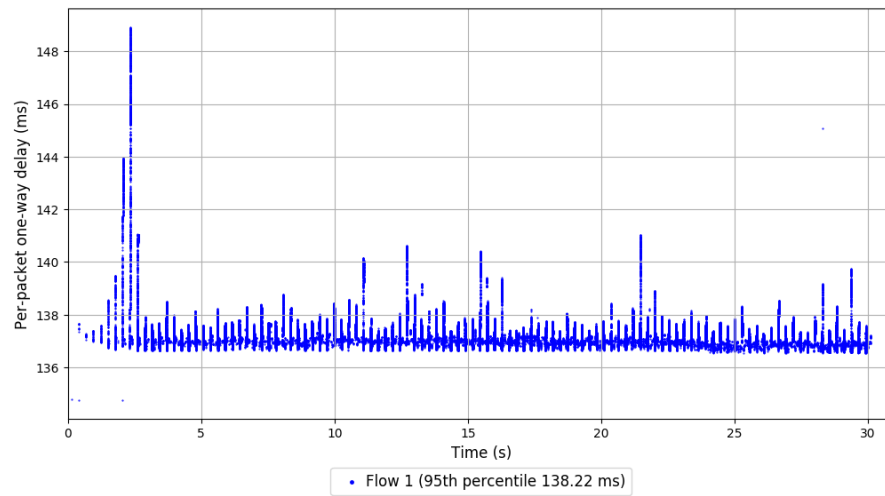
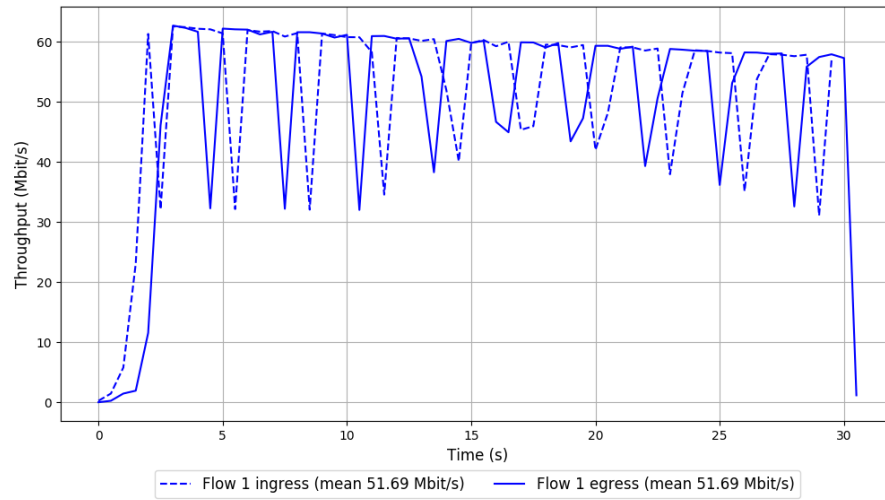
-- Flow 1:

Average throughput: 51.69 Mbit/s

95th percentile per-packet one-way delay: 138.225 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-06-30 13:40:18

End at: 2018-06-30 13:40:48

Local clock offset: -0.153 ms

Remote clock offset: 0.117 ms

Below is generated by plot.py at 2018-06-30 15:45:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.02 Mbit/s

95th percentile per-packet one-way delay: 142.867 ms

Loss rate: 0.00%

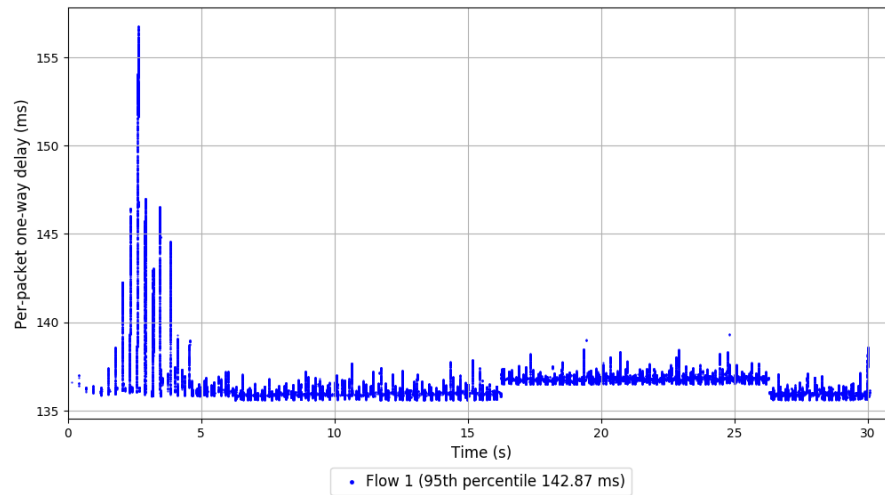
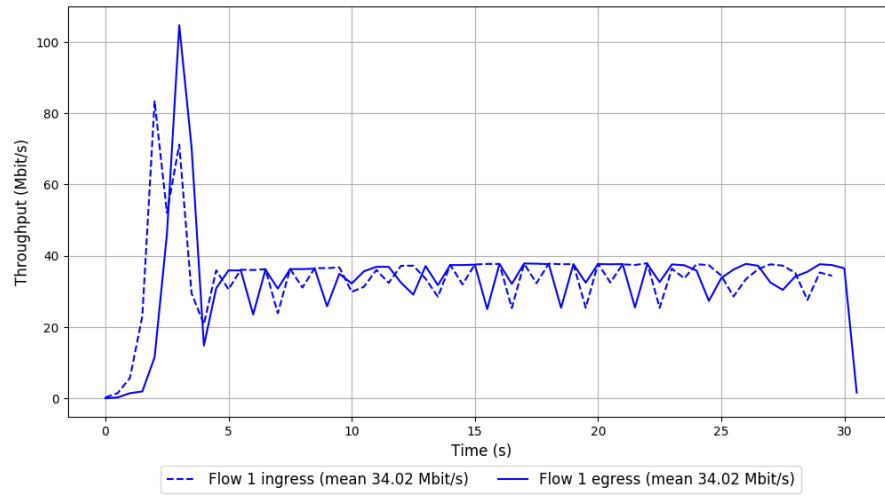
-- Flow 1:

Average throughput: 34.02 Mbit/s

95th percentile per-packet one-way delay: 142.867 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-06-30 14:02:54

End at: 2018-06-30 14:03:24

Local clock offset: 0.051 ms

Remote clock offset: 0.048 ms

Below is generated by plot.py at 2018-06-30 15:45:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.32 Mbit/s

95th percentile per-packet one-way delay: 137.325 ms

Loss rate: 0.00%

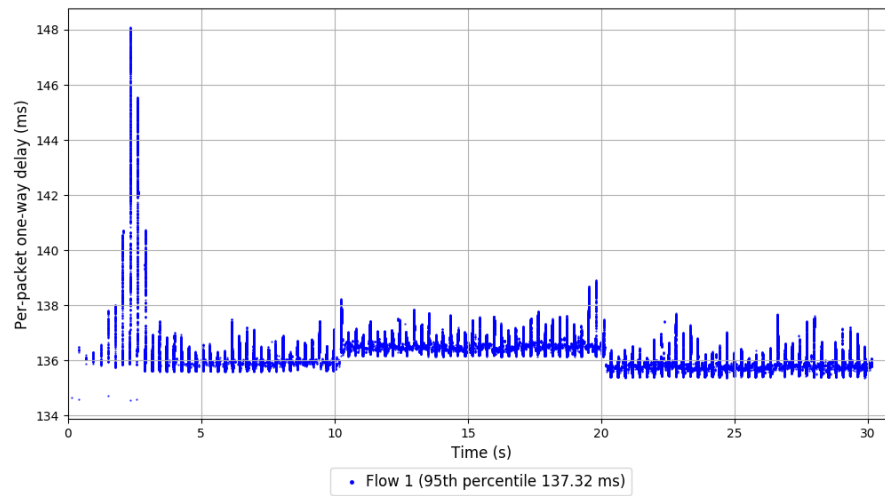
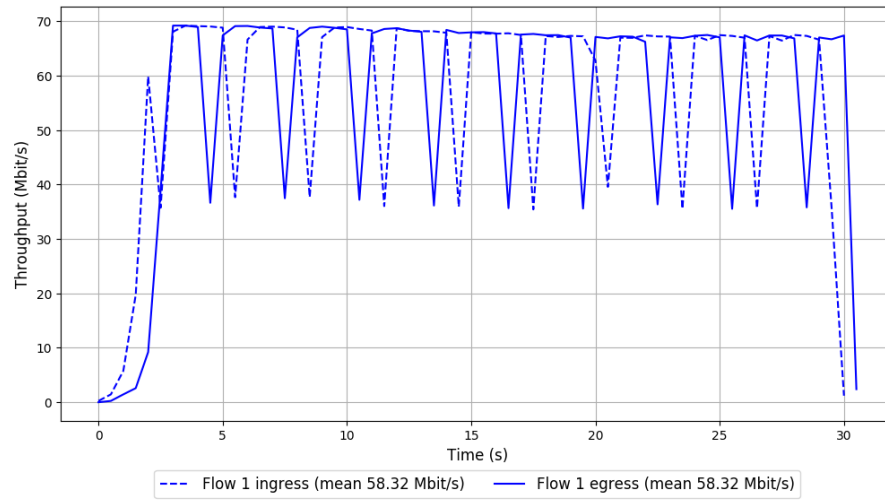
-- Flow 1:

Average throughput: 58.32 Mbit/s

95th percentile per-packet one-way delay: 137.325 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-06-30 14:25:02

End at: 2018-06-30 14:25:32

Local clock offset: -0.17 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2018-06-30 15:45:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.29 Mbit/s

95th percentile per-packet one-way delay: 144.169 ms

Loss rate: 0.00%

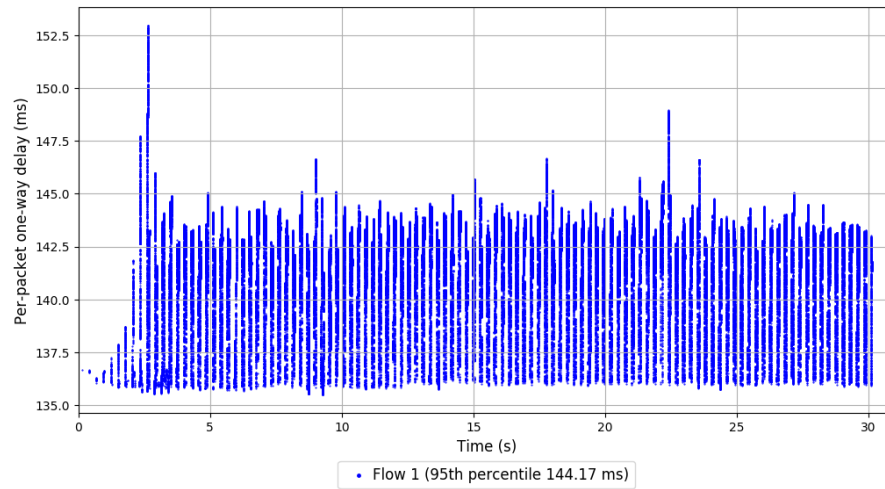
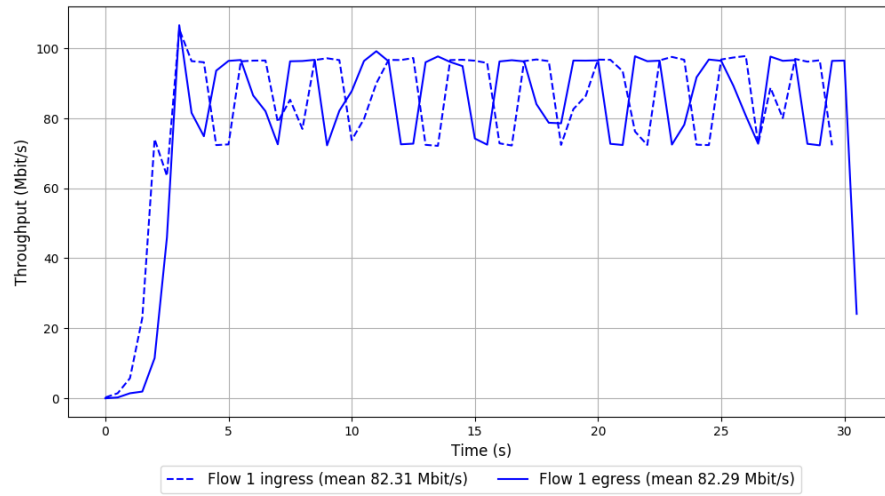
-- Flow 1:

Average throughput: 82.29 Mbit/s

95th percentile per-packet one-way delay: 144.169 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-06-30 10:55:28

End at: 2018-06-30 10:55:58

Local clock offset: 0.165 ms

Remote clock offset: 0.085 ms

Below is generated by plot.py at 2018-06-30 15:45:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.77 Mbit/s

95th percentile per-packet one-way delay: 145.340 ms

Loss rate: 0.00%

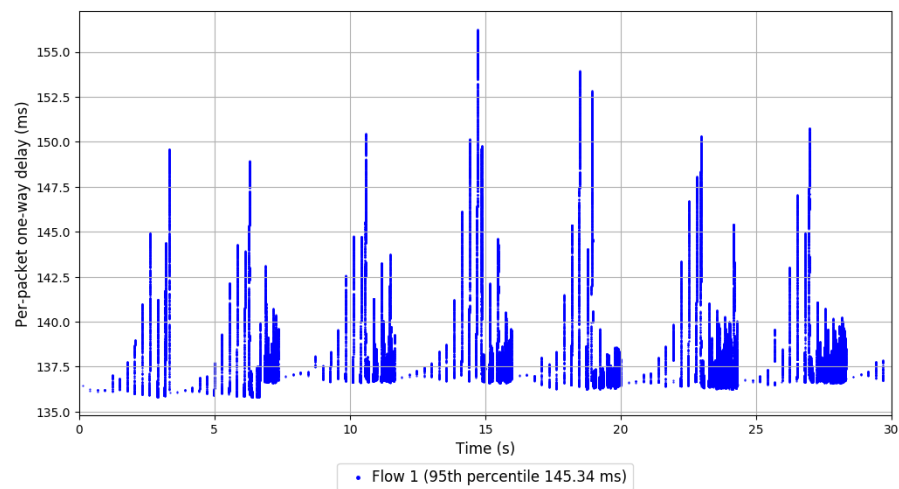
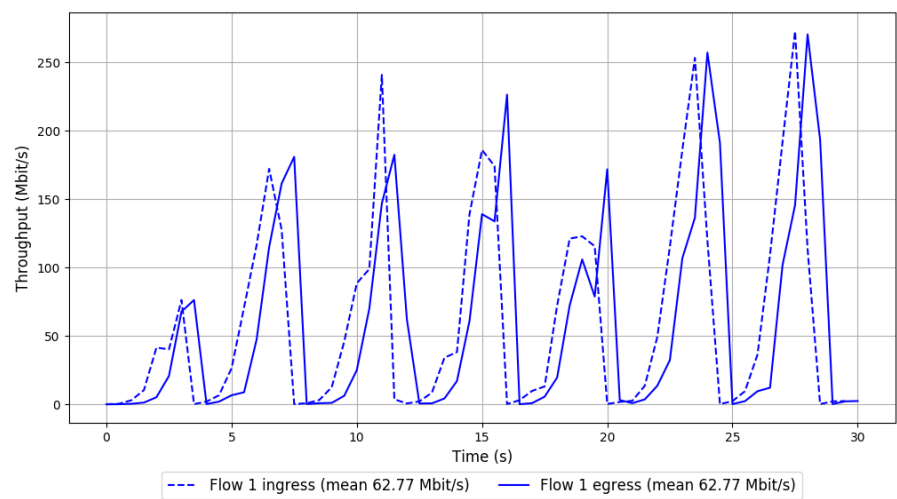
-- Flow 1:

Average throughput: 62.77 Mbit/s

95th percentile per-packet one-way delay: 145.340 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-06-30 11:17:42

End at: 2018-06-30 11:18:12

Local clock offset: 0.239 ms

Remote clock offset: 0.127 ms

Below is generated by plot.py at 2018-06-30 15:45:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 237.76 Mbit/s

95th percentile per-packet one-way delay: 198.618 ms

Loss rate: 0.84%

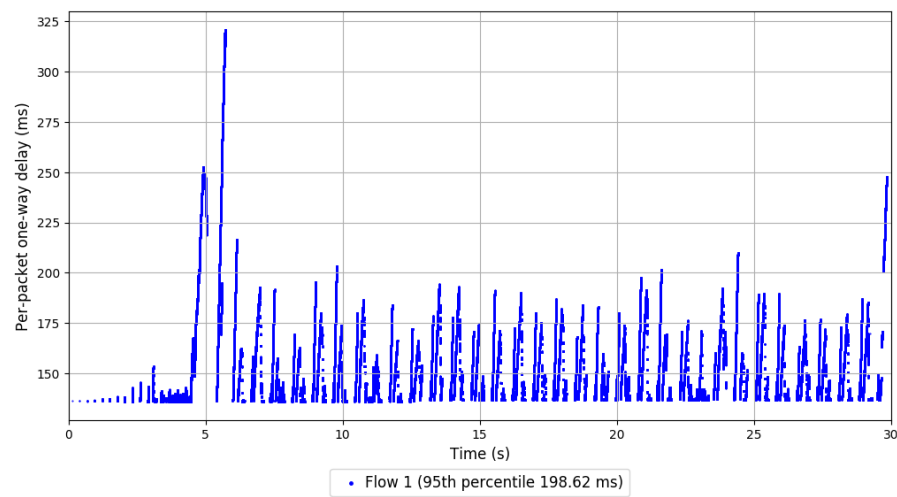
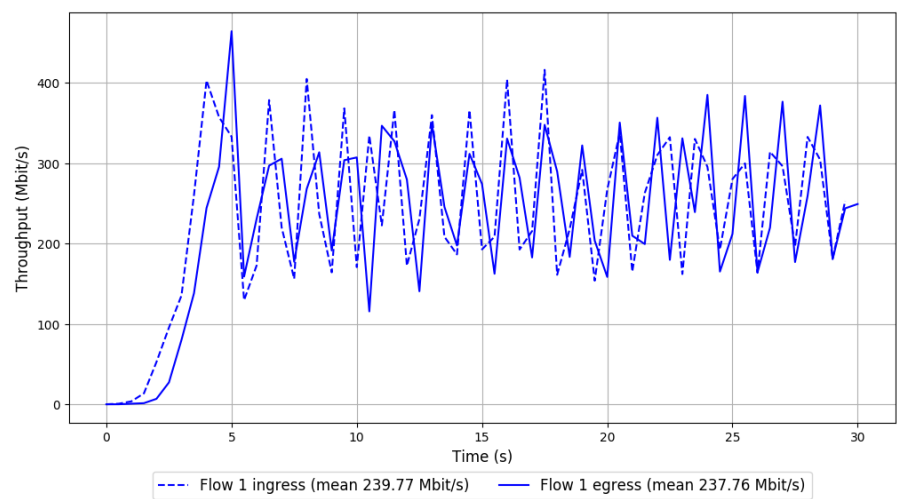
-- Flow 1:

Average throughput: 237.76 Mbit/s

95th percentile per-packet one-way delay: 198.618 ms

Loss rate: 0.84%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-06-30 11:40:10

End at: 2018-06-30 11:40:40

Local clock offset: 0.061 ms

Remote clock offset: 0.436 ms

Below is generated by plot.py at 2018-06-30 15:45:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 145.64 Mbit/s

95th percentile per-packet one-way delay: 217.680 ms

Loss rate: 0.01%

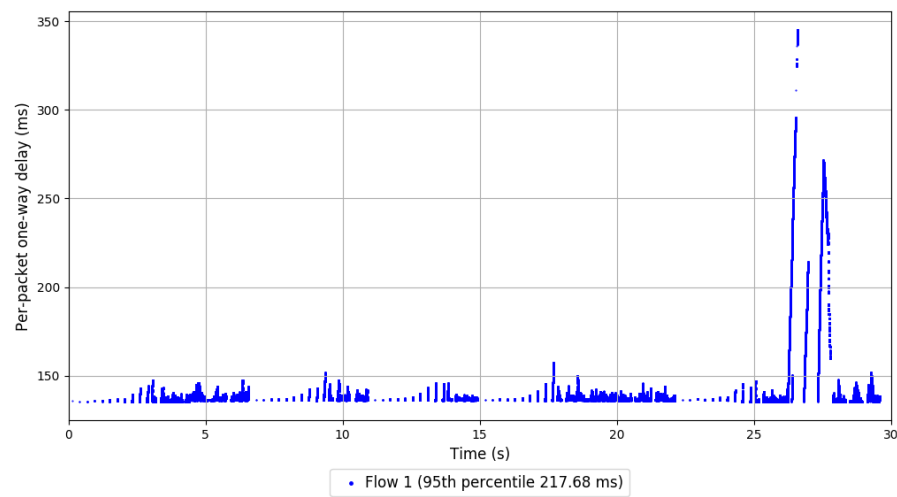
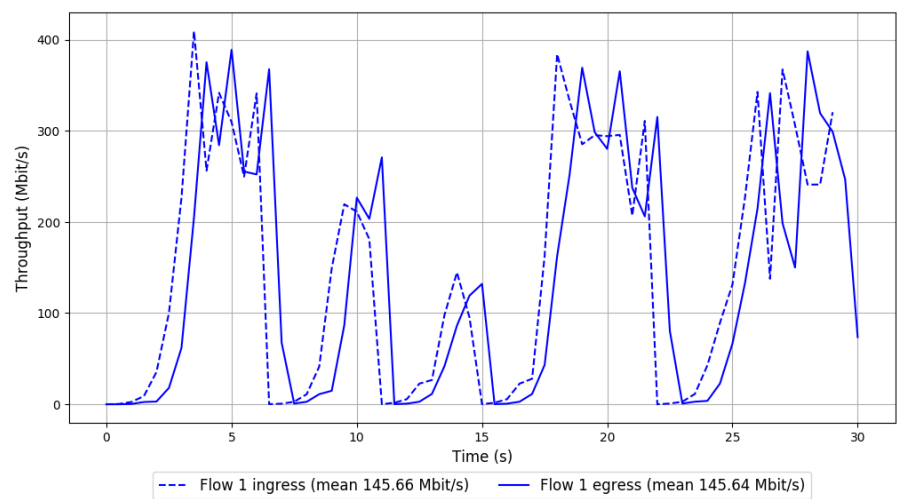
-- Flow 1:

Average throughput: 145.64 Mbit/s

95th percentile per-packet one-way delay: 217.680 ms

Loss rate: 0.01%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-06-30 12:02:53

End at: 2018-06-30 12:03:23

Local clock offset: -0.02 ms

Remote clock offset: 0.065 ms

Below is generated by plot.py at 2018-06-30 15:46:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 235.68 Mbit/s

95th percentile per-packet one-way delay: 287.092 ms

Loss rate: 1.14%

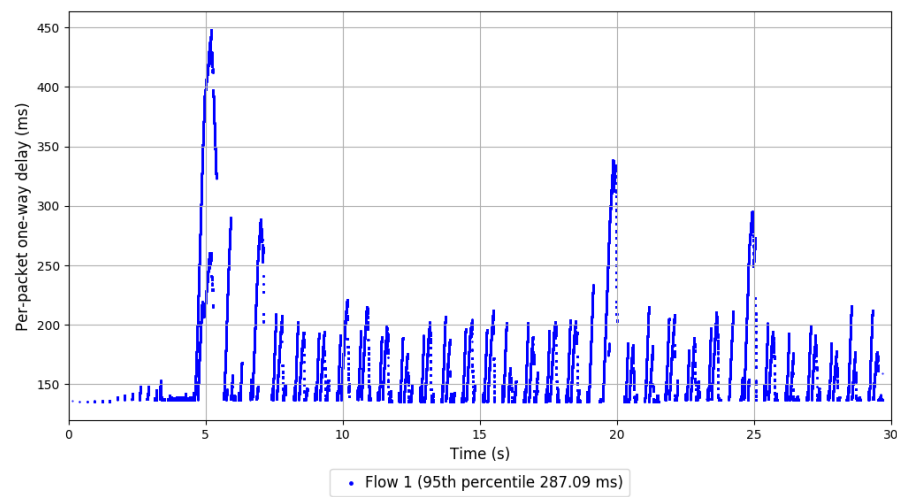
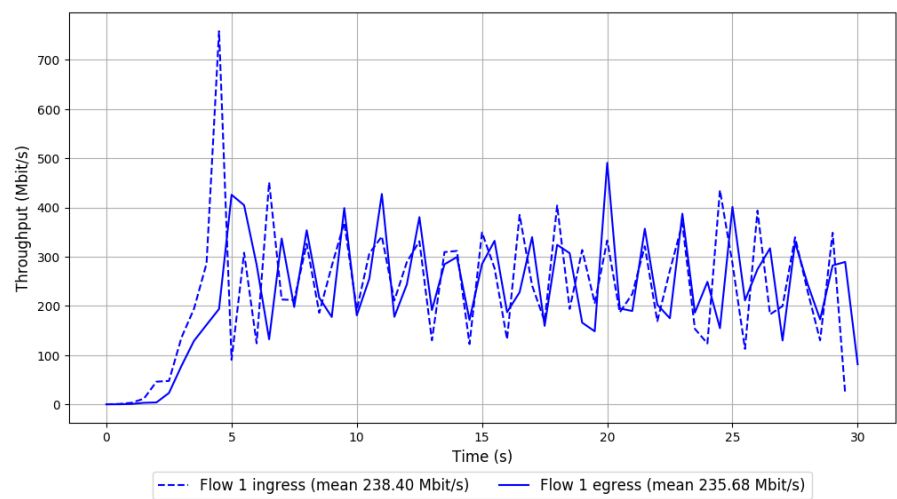
-- Flow 1:

Average throughput: 235.68 Mbit/s

95th percentile per-packet one-way delay: 287.092 ms

Loss rate: 1.14%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-06-30 12:25:38

End at: 2018-06-30 12:26:08

Local clock offset: -0.144 ms

Remote clock offset: 0.022 ms

Below is generated by plot.py at 2018-06-30 15:46:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 107.06 Mbit/s

95th percentile per-packet one-way delay: 177.767 ms

Loss rate: 0.00%

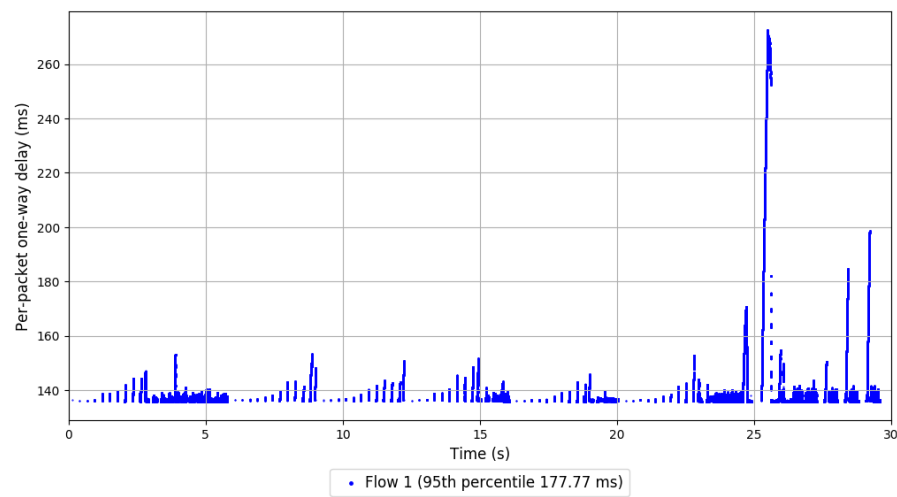
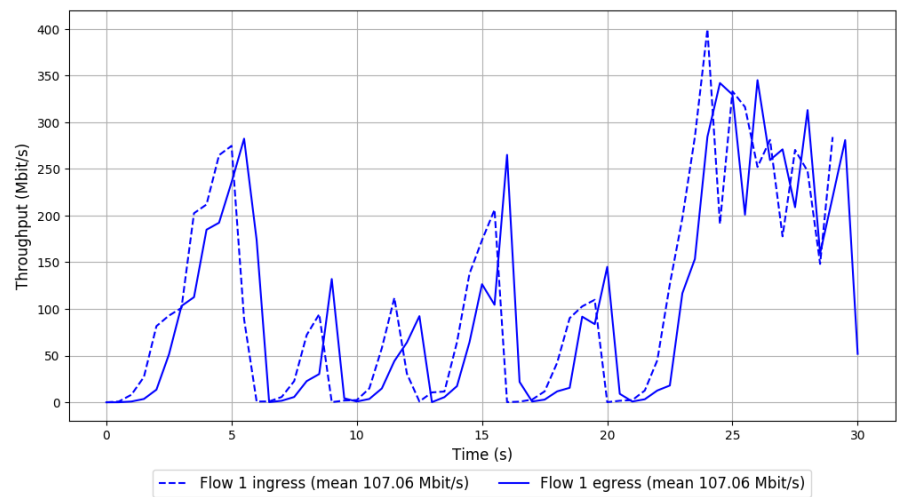
-- Flow 1:

Average throughput: 107.06 Mbit/s

95th percentile per-packet one-way delay: 177.767 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link

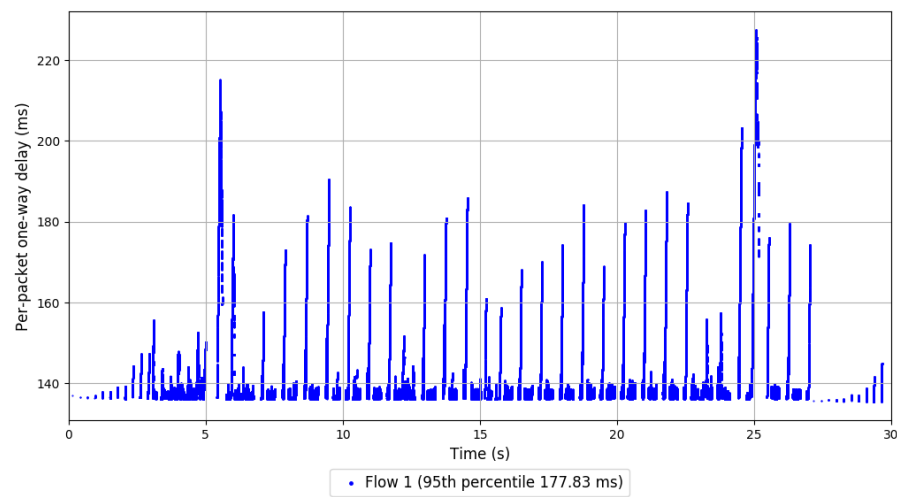
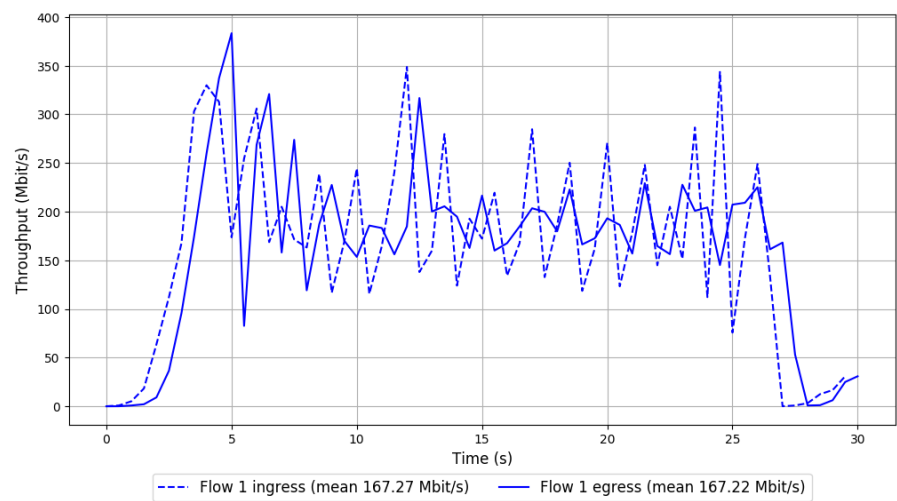


Run 6: Statistics of Verus

Start at: 2018-06-30 12:47:57
End at: 2018-06-30 12:48:27
Local clock offset: 0.084 ms
Remote clock offset: -0.311 ms

Below is generated by plot.py at 2018-06-30 15:46:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 167.22 Mbit/s
95th percentile per-packet one-way delay: 177.826 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 167.22 Mbit/s
95th percentile per-packet one-way delay: 177.826 ms
Loss rate: 0.00%

Run 6: Report of Verus — Data Link

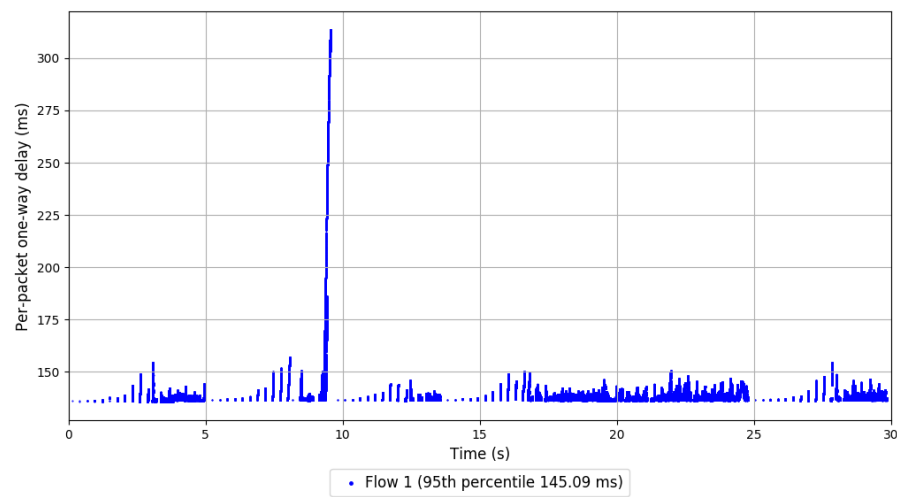
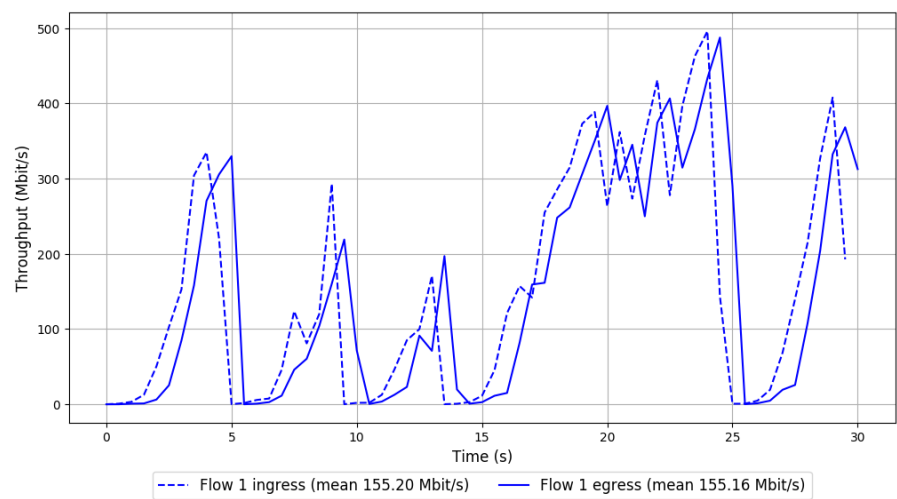


Run 7: Statistics of Verus

Start at: 2018-06-30 13:10:01
End at: 2018-06-30 13:10:31
Local clock offset: -0.152 ms
Remote clock offset: -0.415 ms

Below is generated by plot.py at 2018-06-30 15:46:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 155.16 Mbit/s
95th percentile per-packet one-way delay: 145.088 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 155.16 Mbit/s
95th percentile per-packet one-way delay: 145.088 ms
Loss rate: 0.03%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-06-30 13:32:39

End at: 2018-06-30 13:33:09

Local clock offset: -0.248 ms

Remote clock offset: 0.093 ms

Below is generated by plot.py at 2018-06-30 15:47:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.21 Mbit/s

95th percentile per-packet one-way delay: 190.639 ms

Loss rate: 0.00%

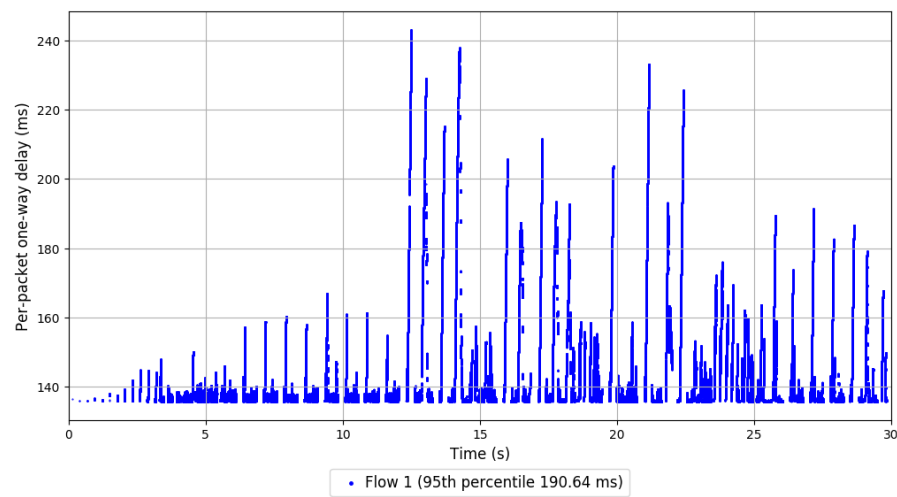
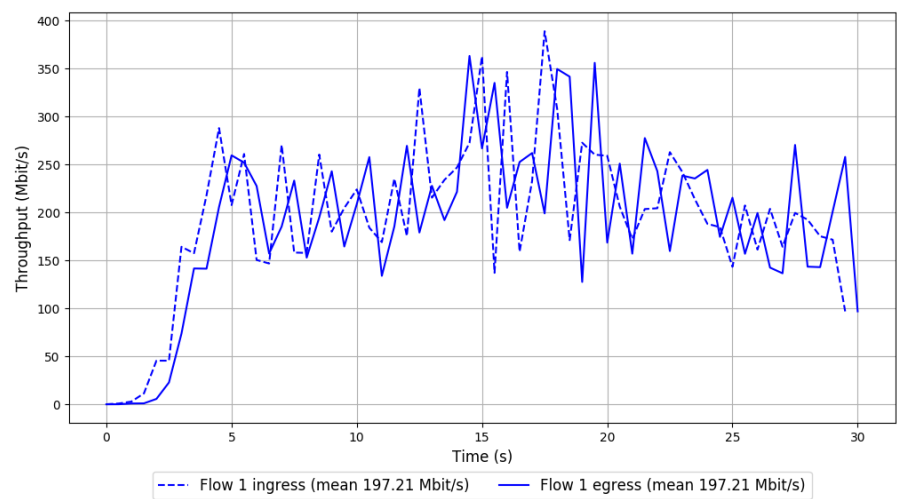
-- Flow 1:

Average throughput: 197.21 Mbit/s

95th percentile per-packet one-way delay: 190.639 ms

Loss rate: 0.00%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-06-30 13:54:53

End at: 2018-06-30 13:55:23

Local clock offset: -0.201 ms

Remote clock offset: 0.446 ms

Below is generated by plot.py at 2018-06-30 15:48:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.04 Mbit/s

95th percentile per-packet one-way delay: 187.469 ms

Loss rate: 0.18%

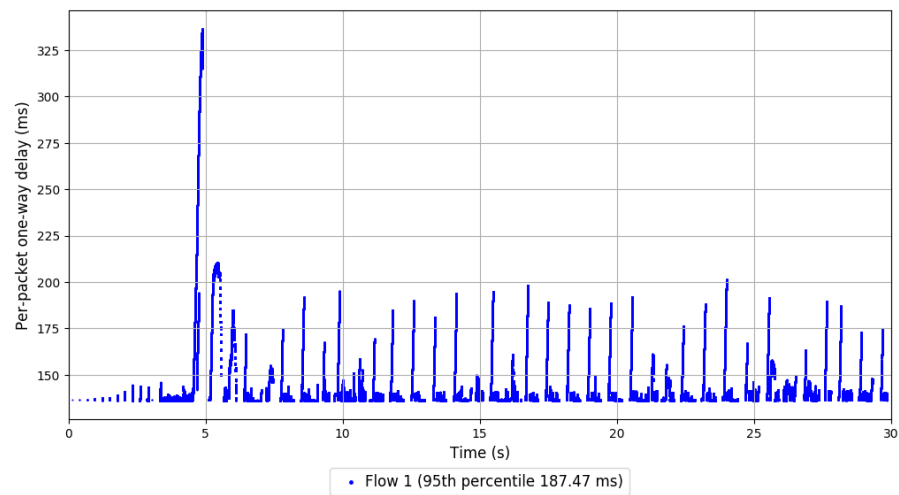
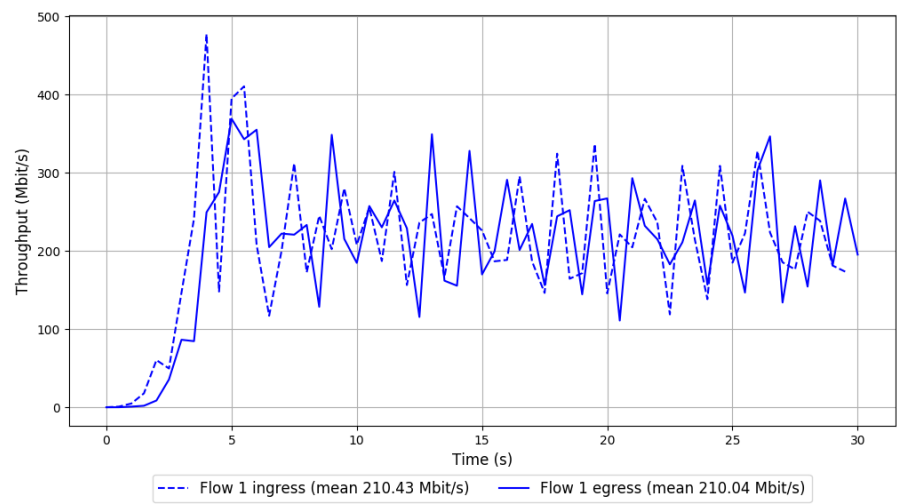
-- Flow 1:

Average throughput: 210.04 Mbit/s

95th percentile per-packet one-way delay: 187.469 ms

Loss rate: 0.18%

Run 9: Report of Verus — Data Link

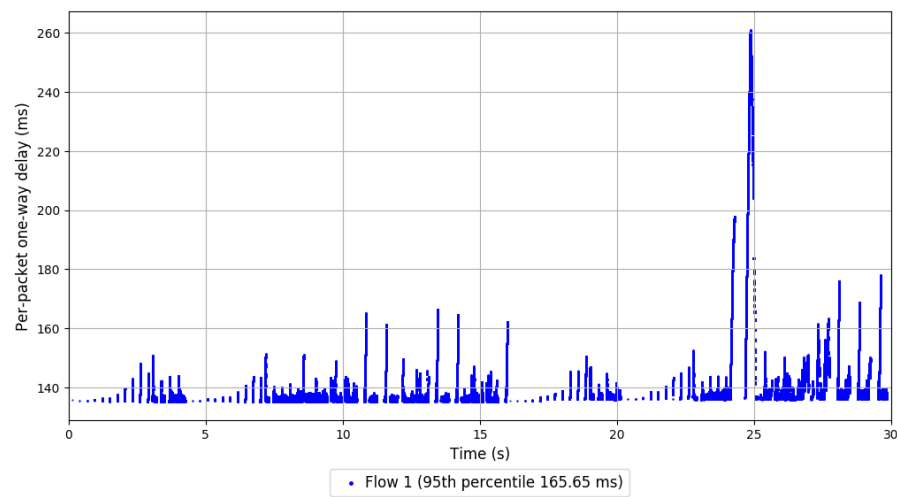
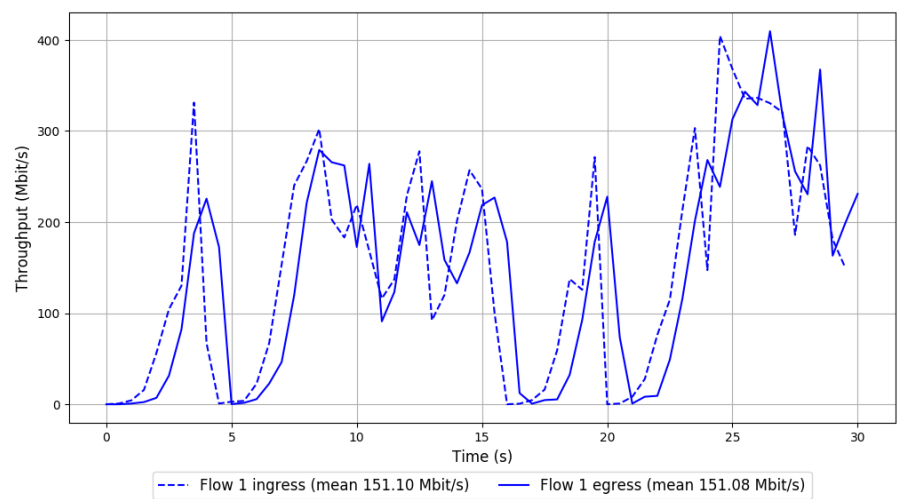


Run 10: Statistics of Verus

Start at: 2018-06-30 14:17:17
End at: 2018-06-30 14:17:47
Local clock offset: -0.128 ms
Remote clock offset: -0.359 ms

Below is generated by plot.py at 2018-06-30 15:48:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 151.08 Mbit/s
95th percentile per-packet one-way delay: 165.649 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 151.08 Mbit/s
95th percentile per-packet one-way delay: 165.649 ms
Loss rate: 0.01%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-06-30 10:56:42

End at: 2018-06-30 10:57:12

Local clock offset: 0.135 ms

Remote clock offset: 0.078 ms

Below is generated by plot.py at 2018-06-30 15:49:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.17 Mbit/s

95th percentile per-packet one-way delay: 136.817 ms

Loss rate: 0.00%

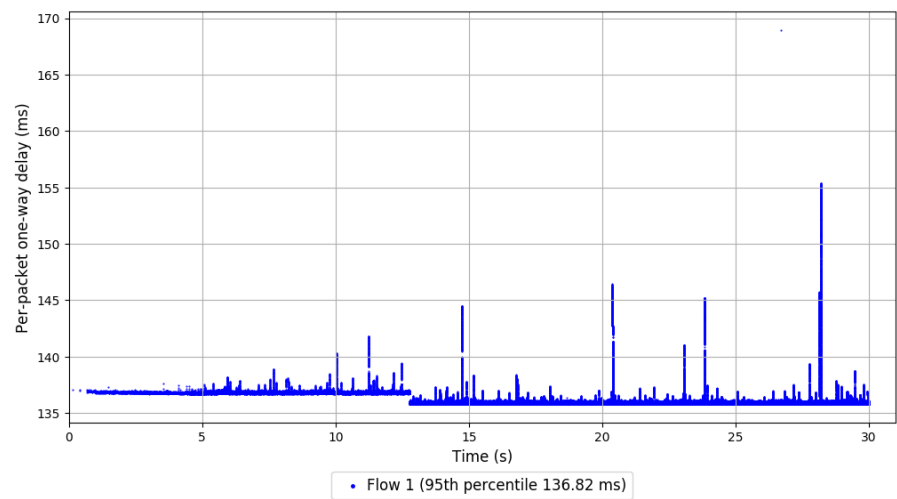
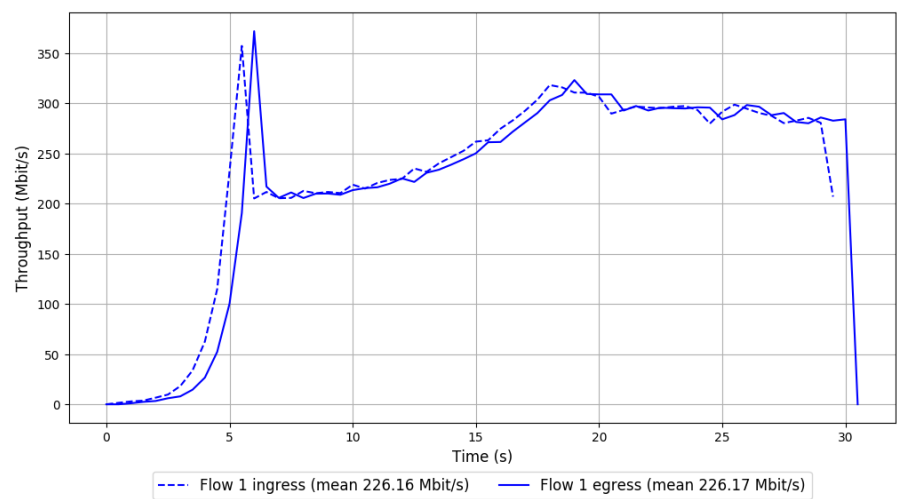
-- Flow 1:

Average throughput: 226.17 Mbit/s

95th percentile per-packet one-way delay: 136.817 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-06-30 11:19:09

End at: 2018-06-30 11:19:39

Local clock offset: 0.134 ms

Remote clock offset: 0.089 ms

Below is generated by plot.py at 2018-06-30 15:49:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.60 Mbit/s

95th percentile per-packet one-way delay: 136.453 ms

Loss rate: 0.00%

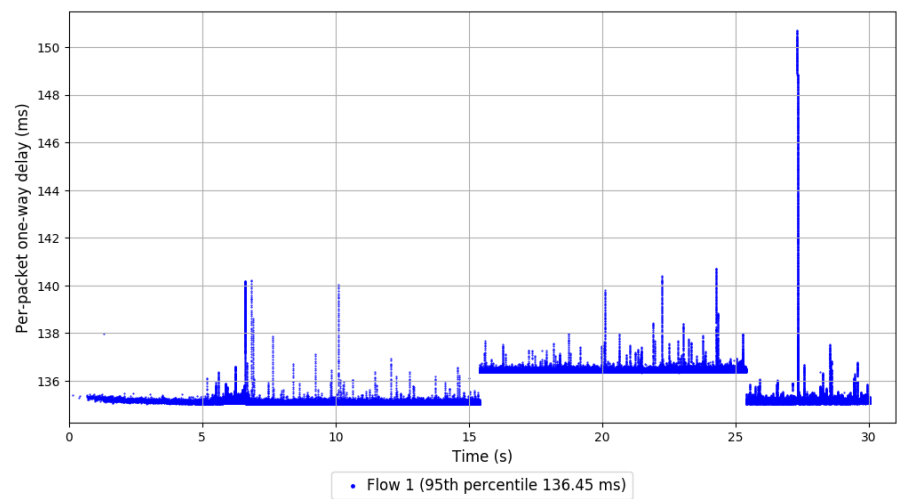
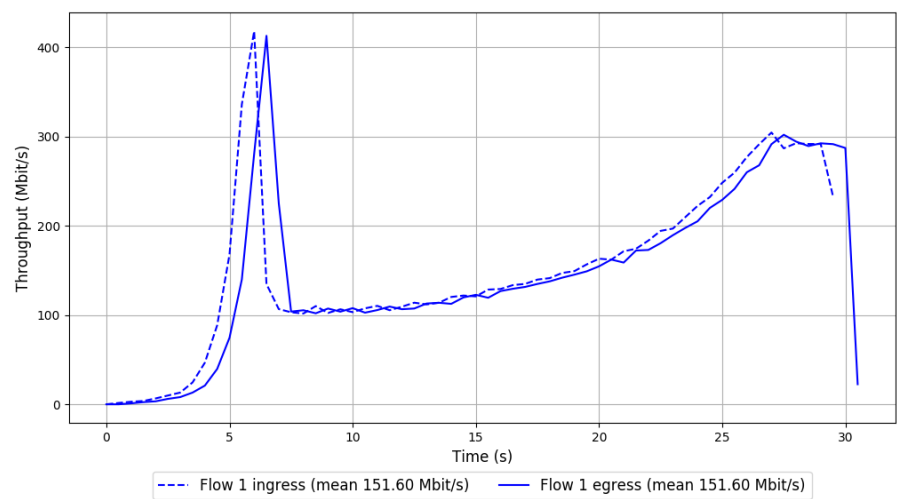
-- Flow 1:

Average throughput: 151.60 Mbit/s

95th percentile per-packet one-way delay: 136.453 ms

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-06-30 11:41:31

End at: 2018-06-30 11:42:01

Local clock offset: -0.06 ms

Remote clock offset: -0.31 ms

Below is generated by plot.py at 2018-06-30 15:50:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 237.37 Mbit/s

95th percentile per-packet one-way delay: 135.691 ms

Loss rate: 0.00%

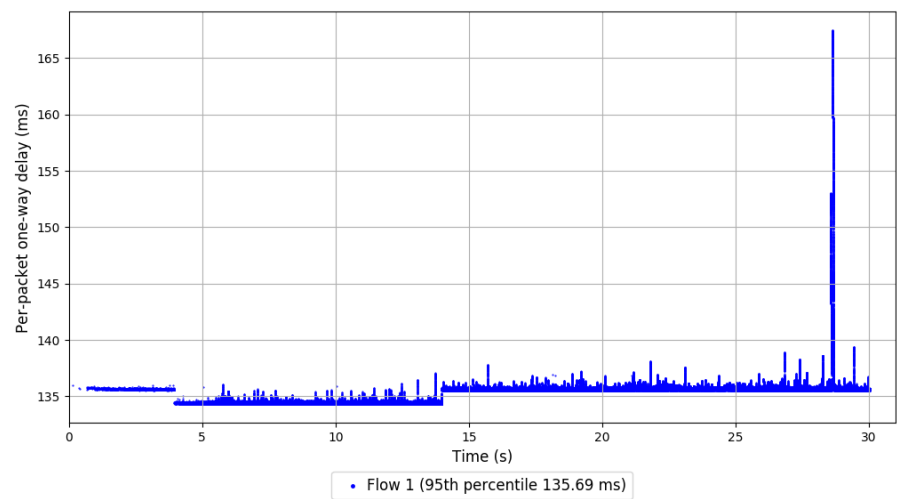
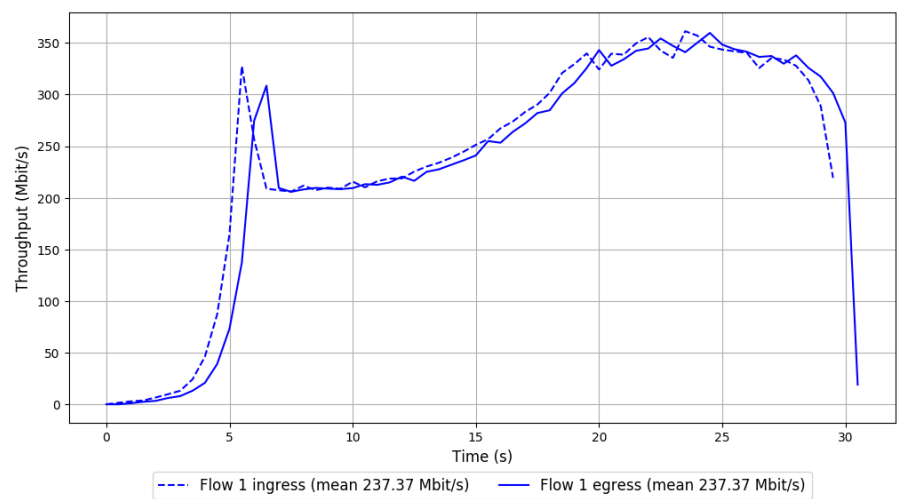
-- Flow 1:

Average throughput: 237.37 Mbit/s

95th percentile per-packet one-way delay: 135.691 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-06-30 12:04:20

End at: 2018-06-30 12:04:50

Local clock offset: -0.134 ms

Remote clock offset: 0.089 ms

Below is generated by plot.py at 2018-06-30 15:50:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 239.79 Mbit/s

95th percentile per-packet one-way delay: 135.975 ms

Loss rate: 0.00%

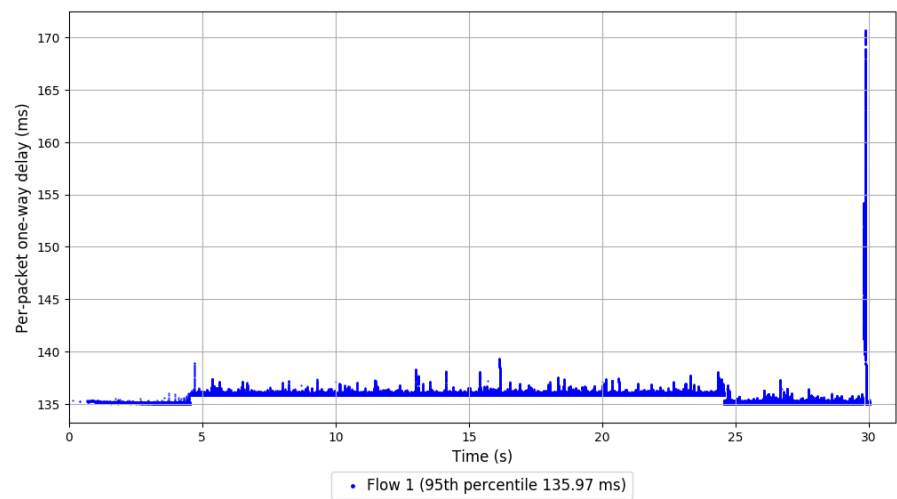
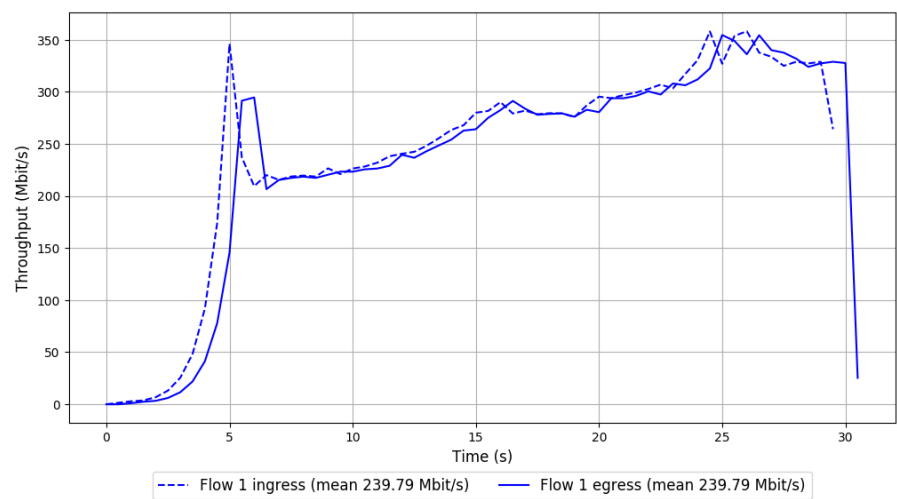
-- Flow 1:

Average throughput: 239.79 Mbit/s

95th percentile per-packet one-way delay: 135.975 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-06-30 12:26:56

End at: 2018-06-30 12:27:26

Local clock offset: 0.007 ms

Remote clock offset: 0.048 ms

Below is generated by plot.py at 2018-06-30 15:50:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 257.53 Mbit/s

95th percentile per-packet one-way delay: 136.625 ms

Loss rate: 0.00%

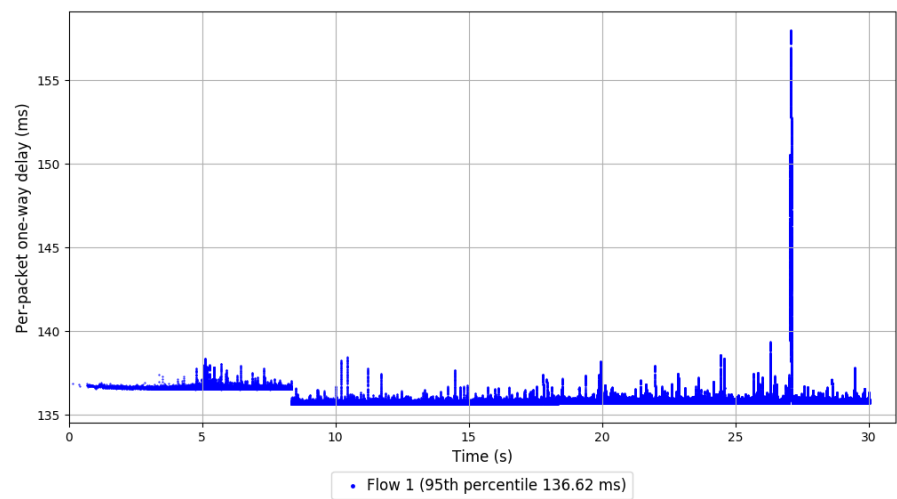
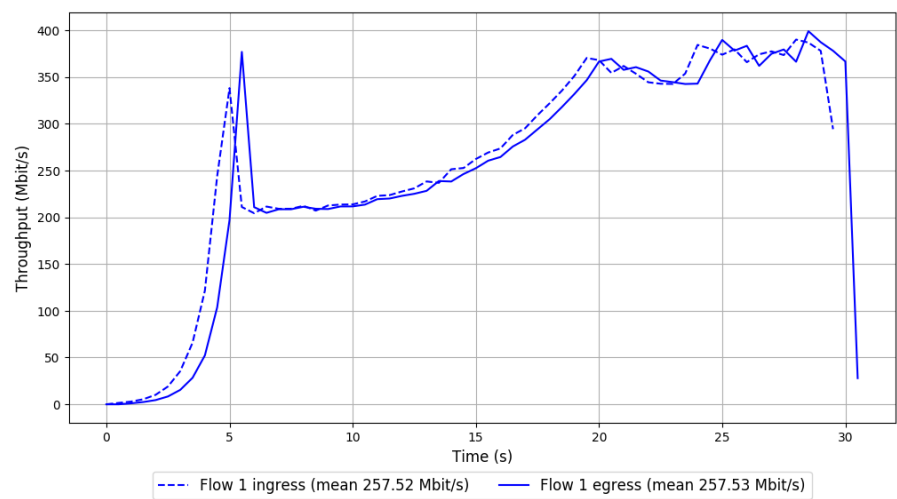
-- Flow 1:

Average throughput: 257.53 Mbit/s

95th percentile per-packet one-way delay: 136.625 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link

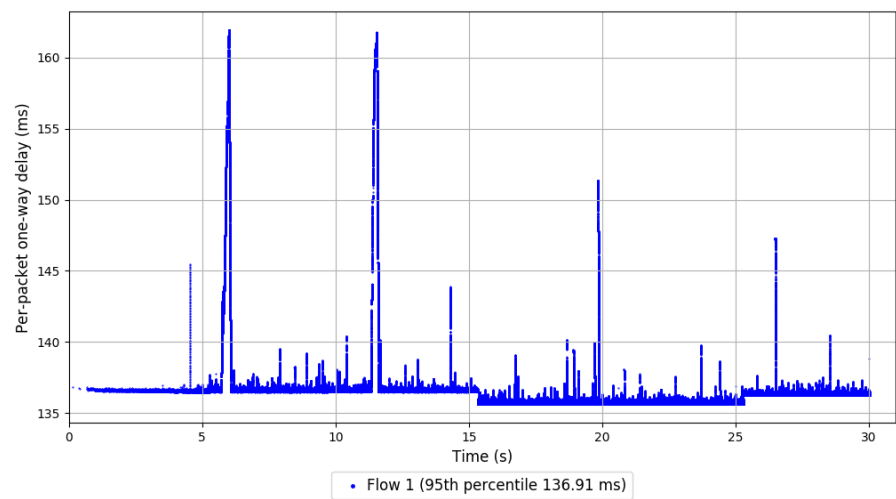
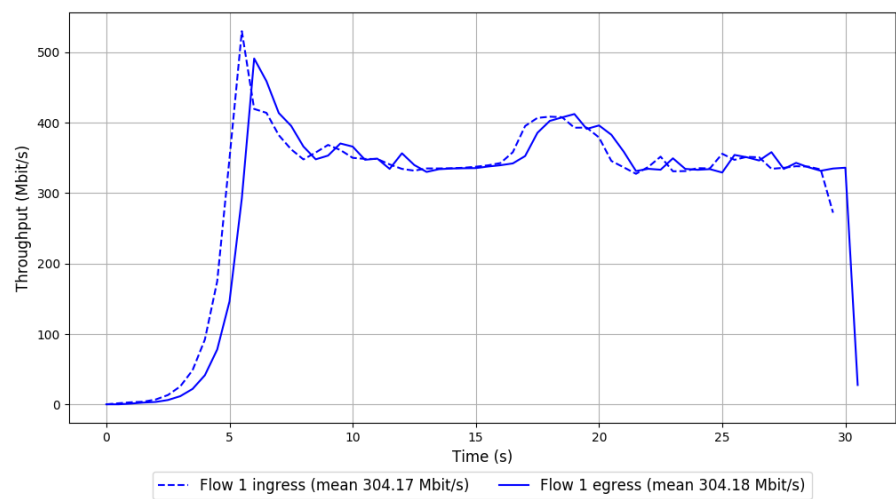


Run 6: Statistics of PCC-Vivace

Start at: 2018-06-30 12:49:19
End at: 2018-06-30 12:49:49
Local clock offset: -0.03 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2018-06-30 15:51:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 304.18 Mbit/s
95th percentile per-packet one-way delay: 136.909 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 304.18 Mbit/s
95th percentile per-packet one-way delay: 136.909 ms
Loss rate: 0.00%

Run 6: Report of PCC-Vivace — Data Link

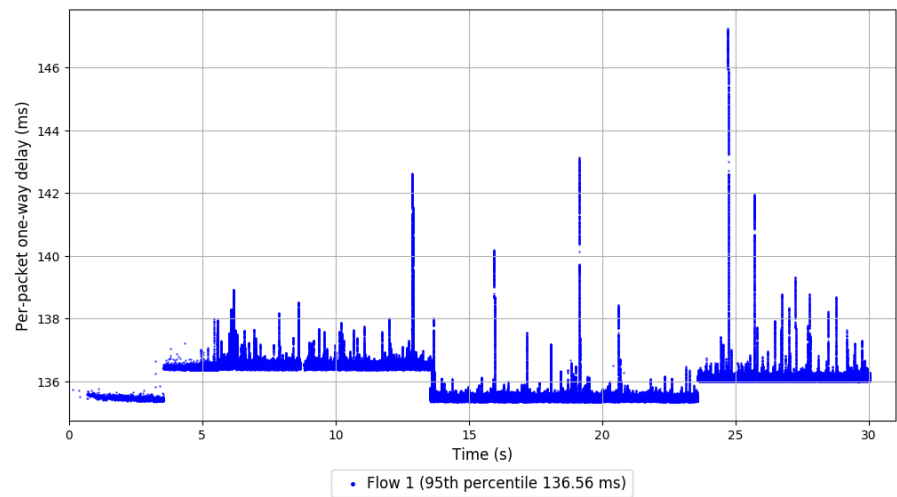
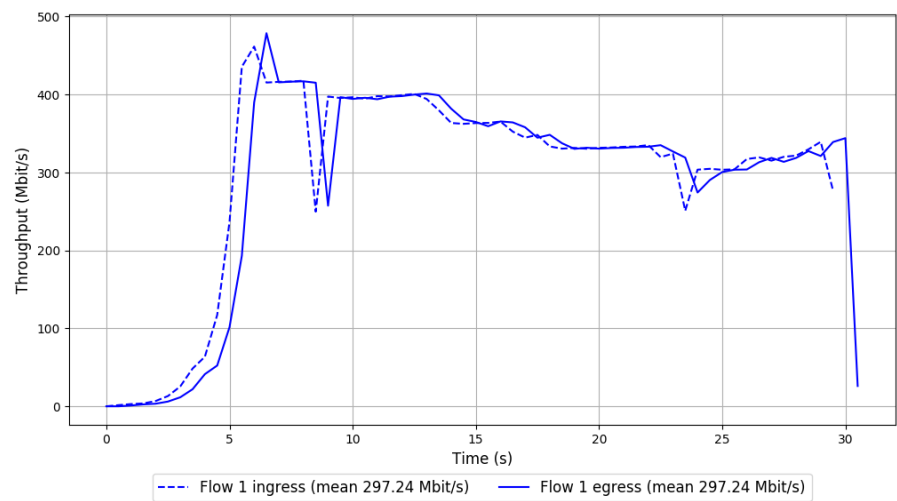


Run 7: Statistics of PCC-Vivace

Start at: 2018-06-30 13:11:21
End at: 2018-06-30 13:11:51
Local clock offset: -0.119 ms
Remote clock offset: -0.355 ms

Below is generated by plot.py at 2018-06-30 15:51:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 297.24 Mbit/s
95th percentile per-packet one-way delay: 136.565 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 297.24 Mbit/s
95th percentile per-packet one-way delay: 136.565 ms
Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-06-30 13:34:02

End at: 2018-06-30 13:34:32

Local clock offset: -0.098 ms

Remote clock offset: 0.106 ms

Below is generated by plot.py at 2018-06-30 15:51:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 161.42 Mbit/s

95th percentile per-packet one-way delay: 136.808 ms

Loss rate: 0.00%

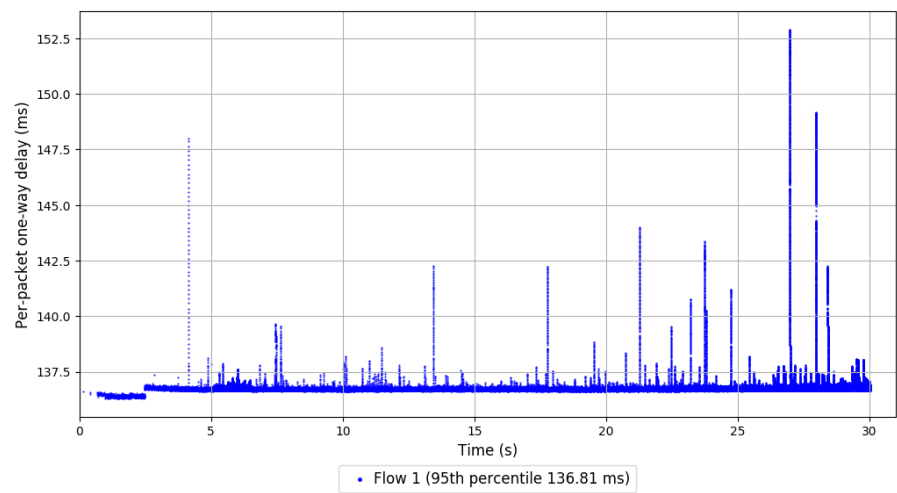
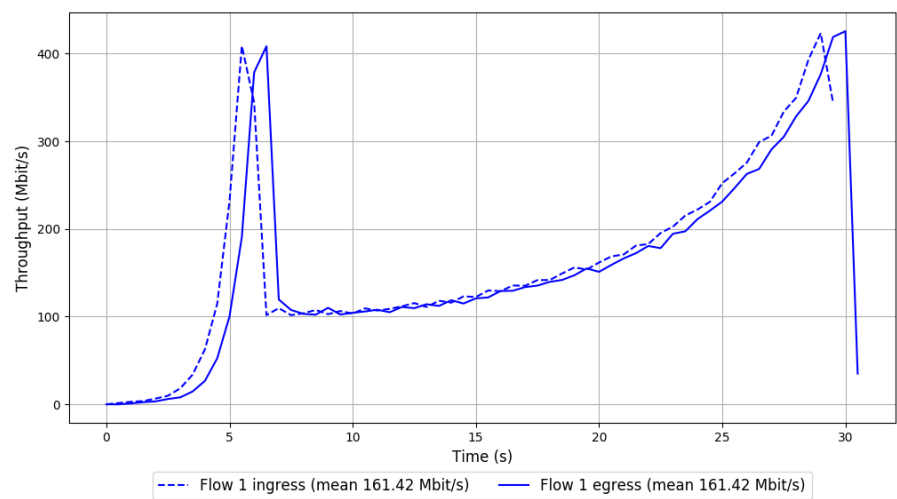
-- Flow 1:

Average throughput: 161.42 Mbit/s

95th percentile per-packet one-way delay: 136.808 ms

Loss rate: 0.00%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-06-30 13:56:17

End at: 2018-06-30 13:56:47

Local clock offset: -0.119 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-06-30 15:52:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 328.31 Mbit/s

95th percentile per-packet one-way delay: 138.640 ms

Loss rate: 0.00%

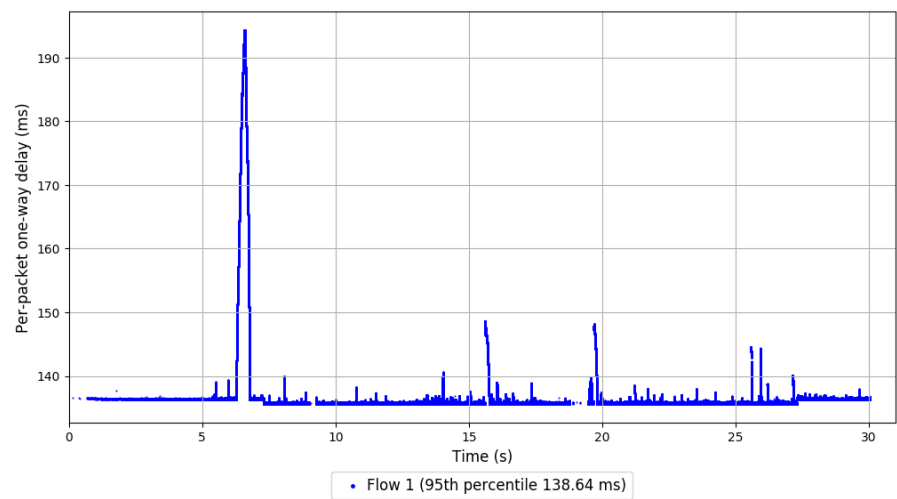
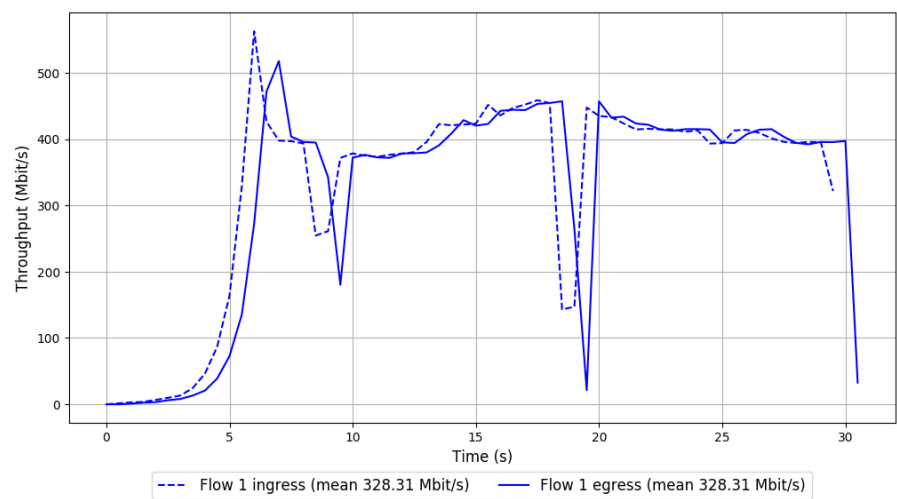
-- Flow 1:

Average throughput: 328.31 Mbit/s

95th percentile per-packet one-way delay: 138.640 ms

Loss rate: 0.00%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-06-30 14:18:37

End at: 2018-06-30 14:19:07

Local clock offset: -0.17 ms

Remote clock offset: 0.05 ms

Below is generated by plot.py at 2018-06-30 15:52:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 329.51 Mbit/s

95th percentile per-packet one-way delay: 137.111 ms

Loss rate: 0.00%

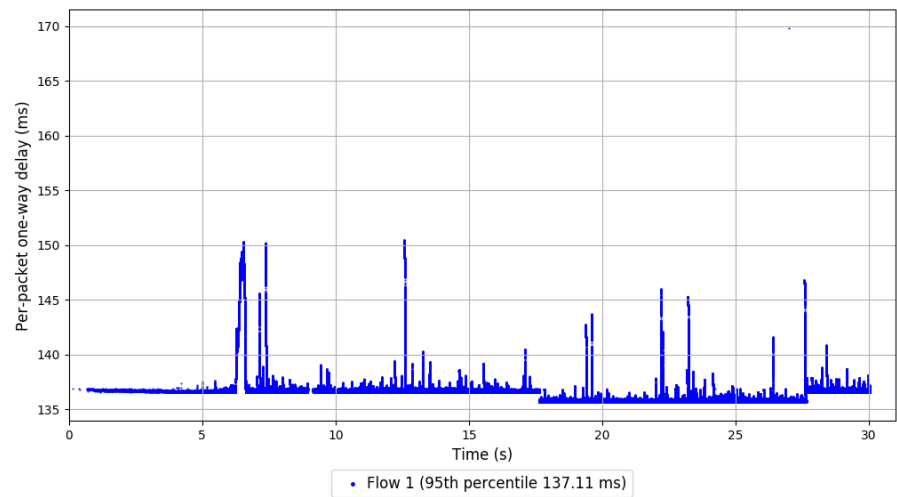
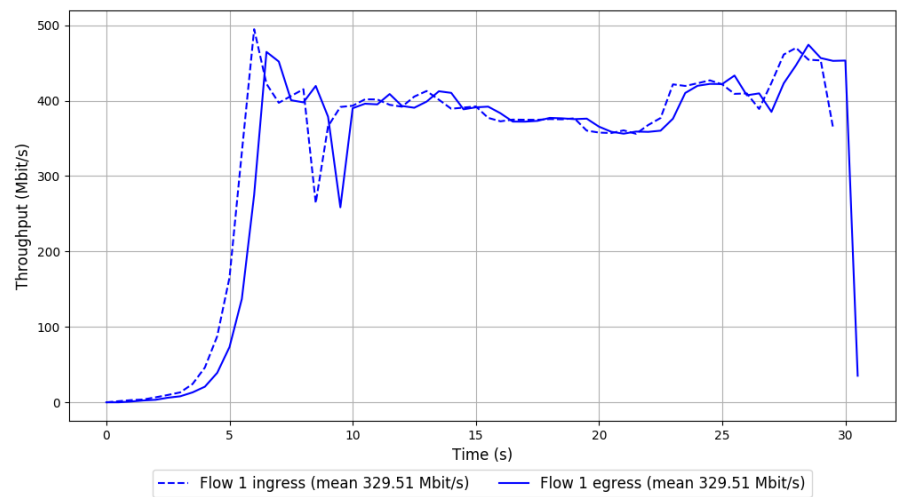
-- Flow 1:

Average throughput: 329.51 Mbit/s

95th percentile per-packet one-way delay: 137.111 ms

Loss rate: 0.00%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-06-30 10:54:19

End at: 2018-06-30 10:54:49

Local clock offset: 0.077 ms

Remote clock offset: 0.402 ms

Below is generated by plot.py at 2018-06-30 15:52:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 136.540 ms

Loss rate: 0.00%

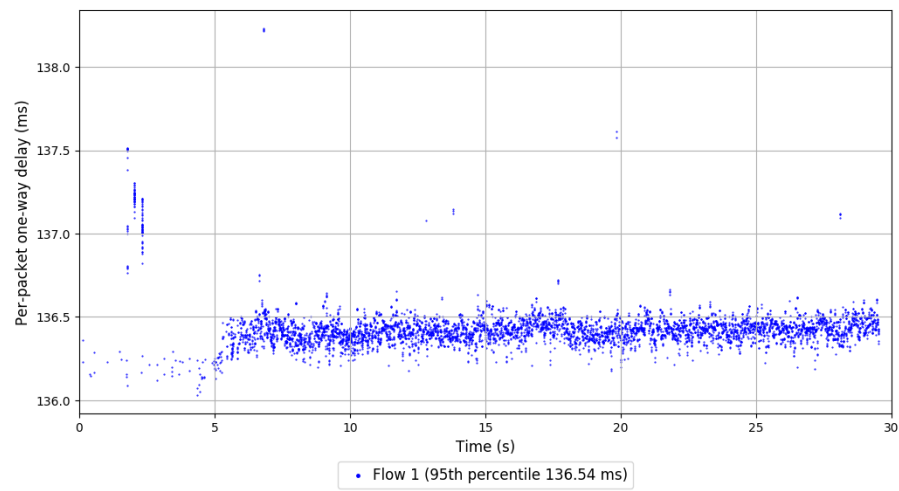
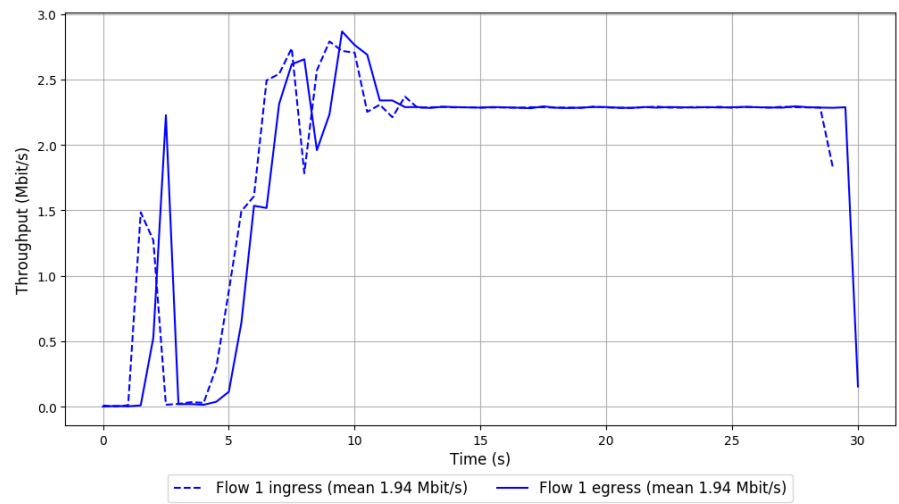
-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 136.540 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-06-30 11:16:33

End at: 2018-06-30 11:17:03

Local clock offset: 0.36 ms

Remote clock offset: 0.09 ms

Below is generated by plot.py at 2018-06-30 15:52:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 136.684 ms

Loss rate: 0.00%

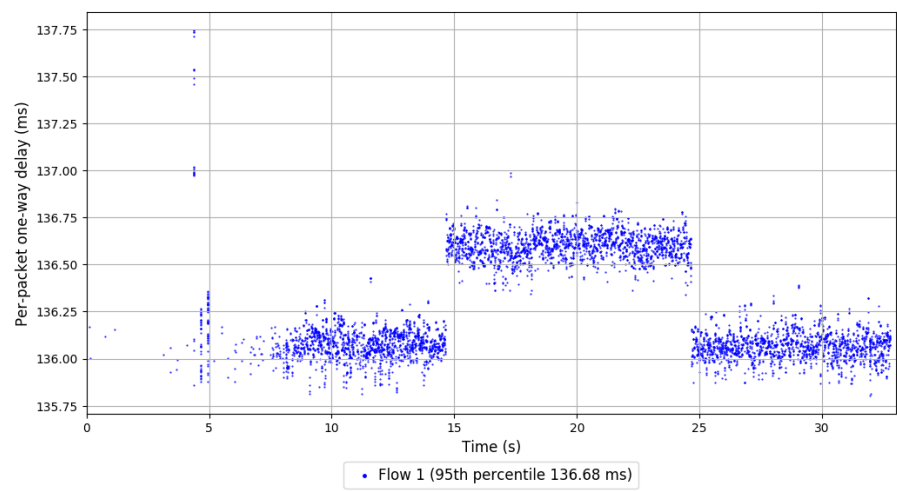
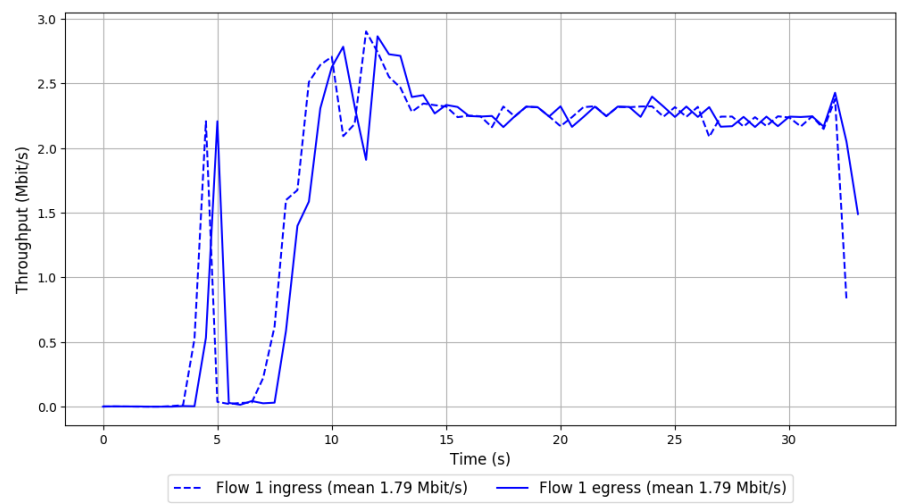
-- Flow 1:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 136.684 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-06-30 11:39:01

End at: 2018-06-30 11:39:31

Local clock offset: 0.019 ms

Remote clock offset: 0.102 ms

Below is generated by plot.py at 2018-06-30 15:52:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 136.832 ms

Loss rate: 0.00%

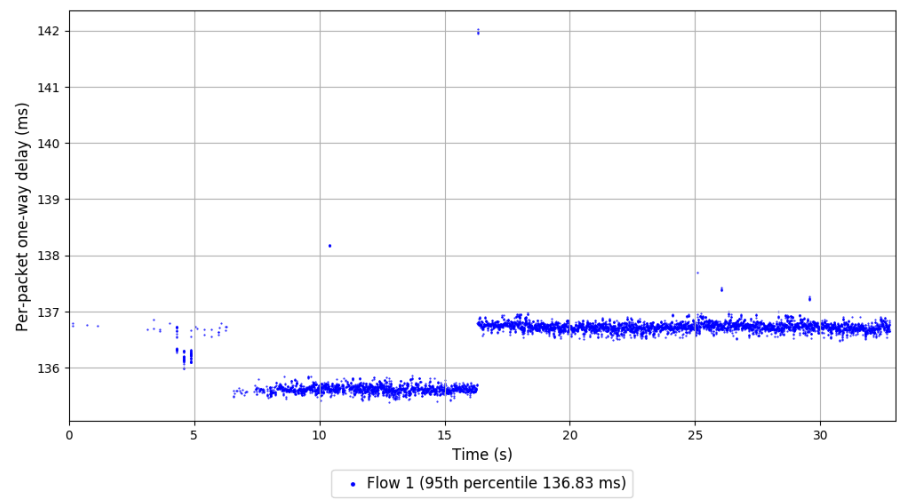
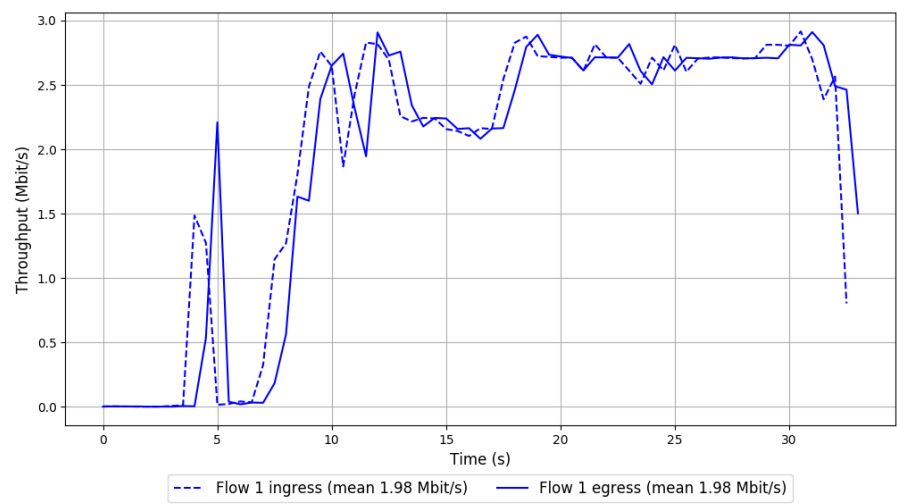
-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 136.832 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-06-30 12:01:44

End at: 2018-06-30 12:02:14

Local clock offset: -0.072 ms

Remote clock offset: 0.083 ms

Below is generated by plot.py at 2018-06-30 15:52:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 136.162 ms

Loss rate: 0.00%

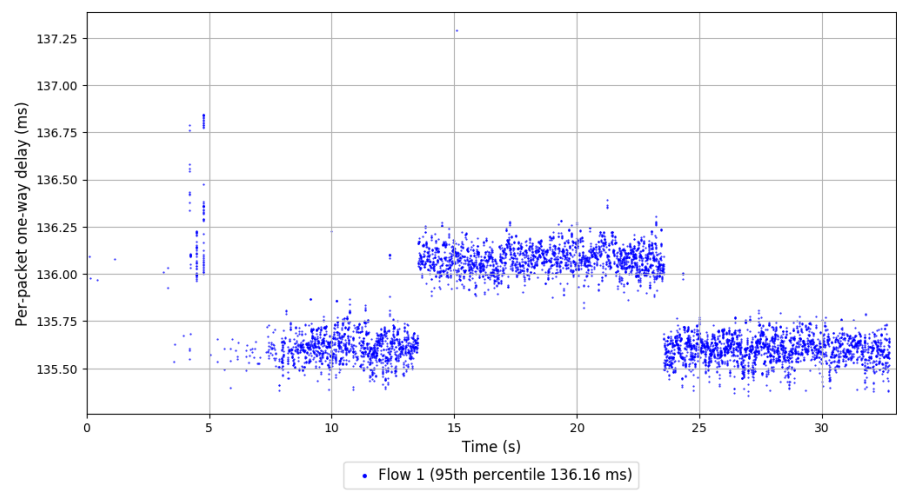
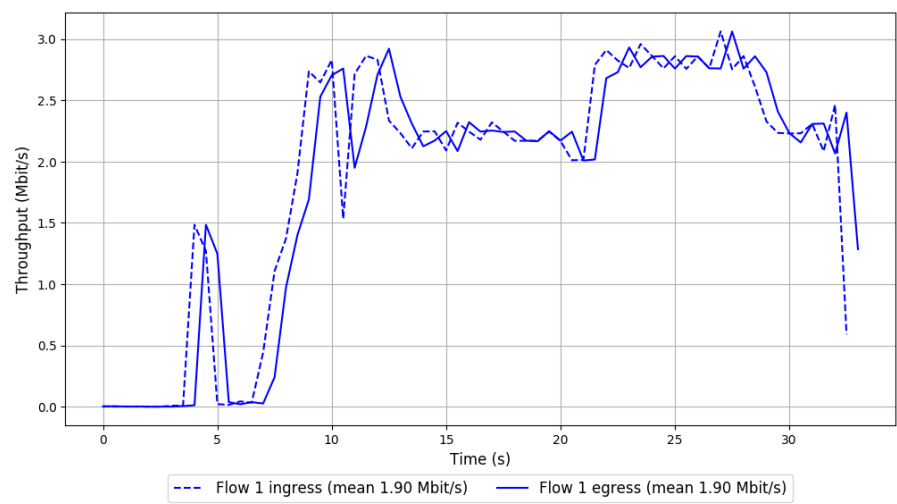
-- Flow 1:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 136.162 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-06-30 12:24:30

End at: 2018-06-30 12:25:00

Local clock offset: 0.011 ms

Remote clock offset: 0.069 ms

Below is generated by plot.py at 2018-06-30 15:52:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.77 Mbit/s

95th percentile per-packet one-way delay: 136.146 ms

Loss rate: 0.00%

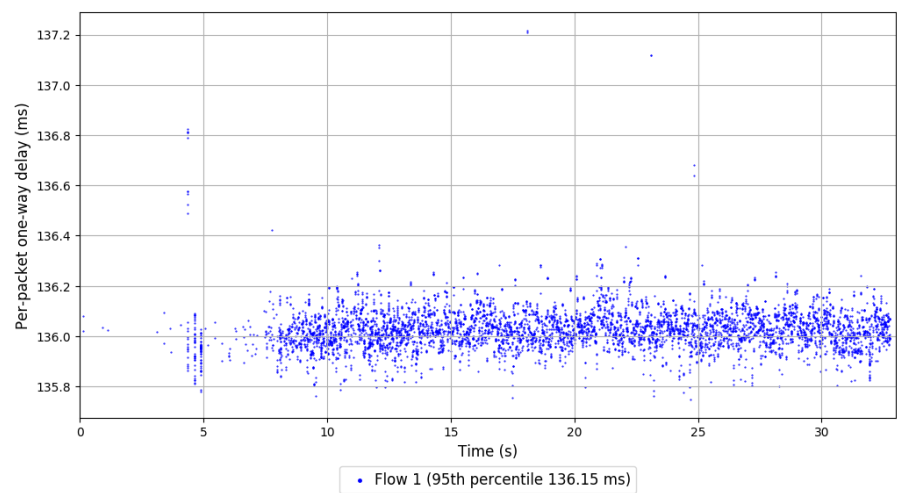
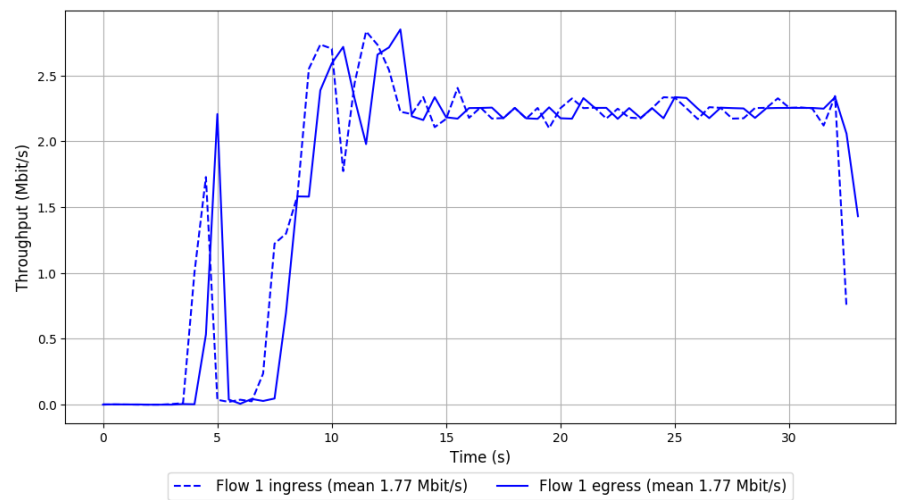
-- Flow 1:

Average throughput: 1.77 Mbit/s

95th percentile per-packet one-way delay: 136.146 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

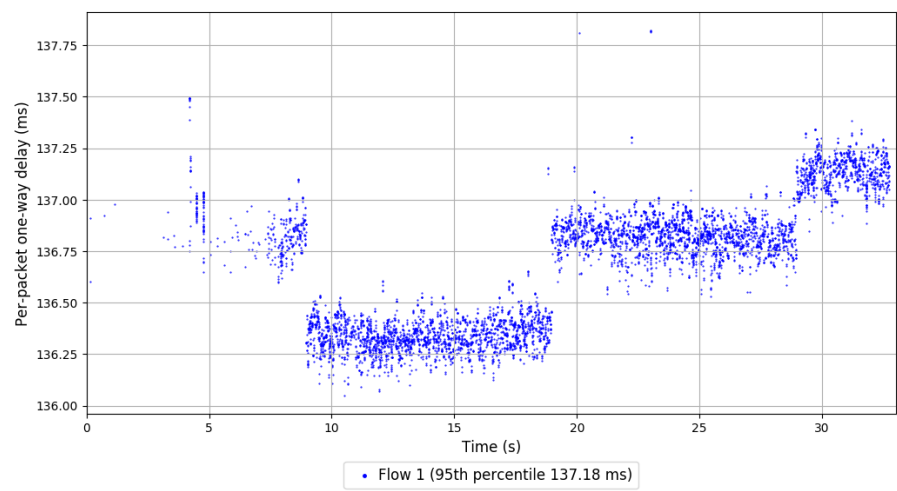
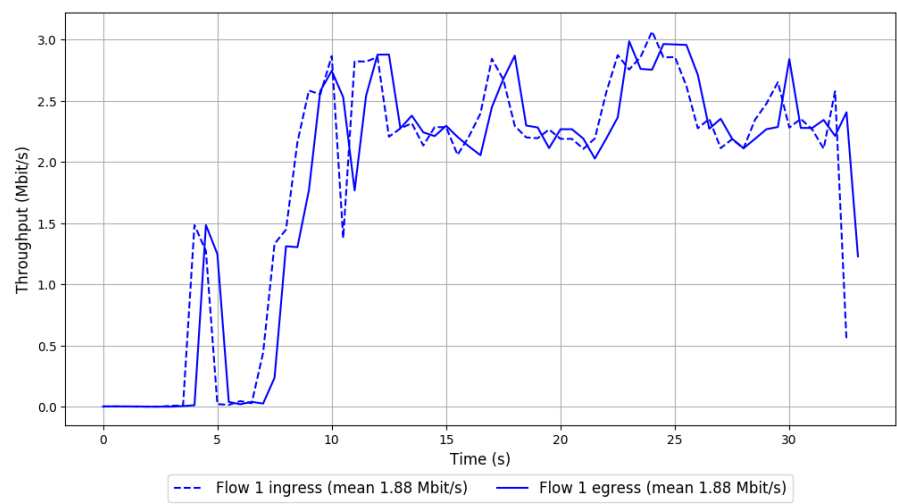


Run 6: Statistics of WebRTC media

Start at: 2018-06-30 12:46:48
End at: 2018-06-30 12:47:18
Local clock offset: -0.192 ms
Remote clock offset: -0.035 ms

Below is generated by plot.py at 2018-06-30 15:52:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.88 Mbit/s
95th percentile per-packet one-way delay: 137.175 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.88 Mbit/s
95th percentile per-packet one-way delay: 137.175 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

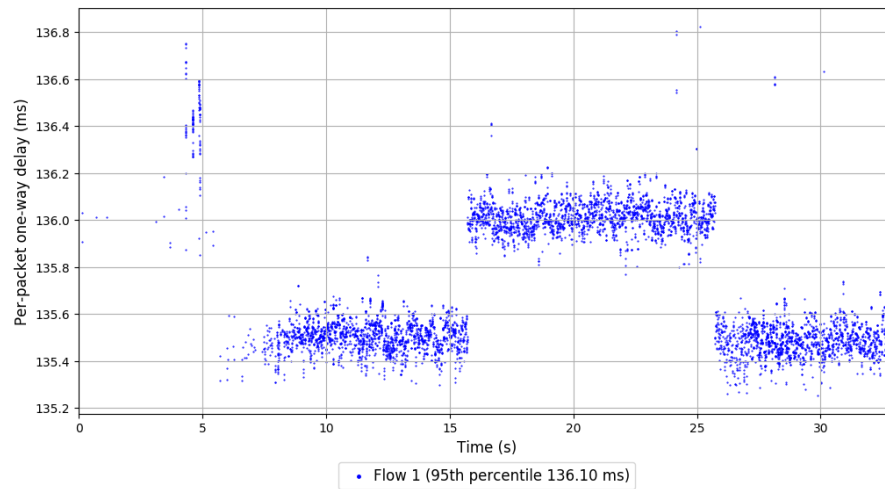
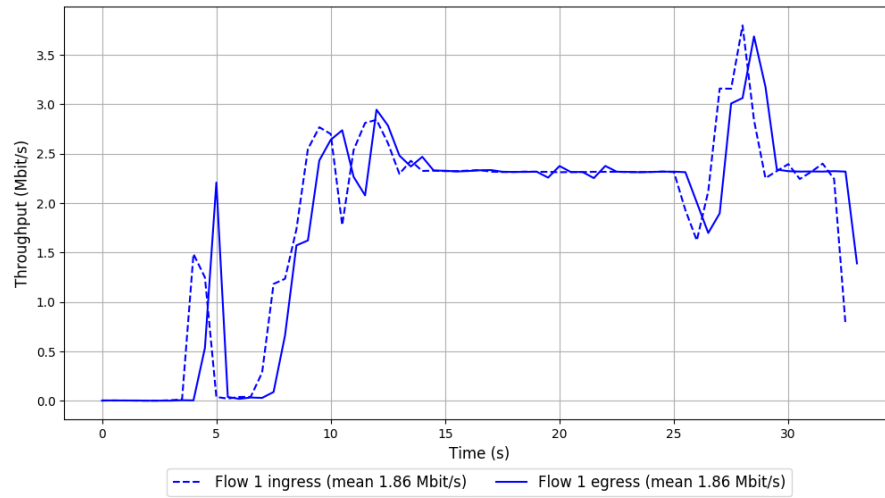


Run 7: Statistics of WebRTC media

Start at: 2018-06-30 13:08:52
End at: 2018-06-30 13:09:22
Local clock offset: 0.109 ms
Remote clock offset: -0.372 ms

Below is generated by plot.py at 2018-06-30 15:52:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.86 Mbit/s
95th percentile per-packet one-way delay: 136.097 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.86 Mbit/s
95th percentile per-packet one-way delay: 136.097 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-06-30 13:31:30

End at: 2018-06-30 13:32:00

Local clock offset: -0.223 ms

Remote clock offset: 0.114 ms

Below is generated by plot.py at 2018-06-30 15:52:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.81 Mbit/s

95th percentile per-packet one-way delay: 136.084 ms

Loss rate: 0.00%

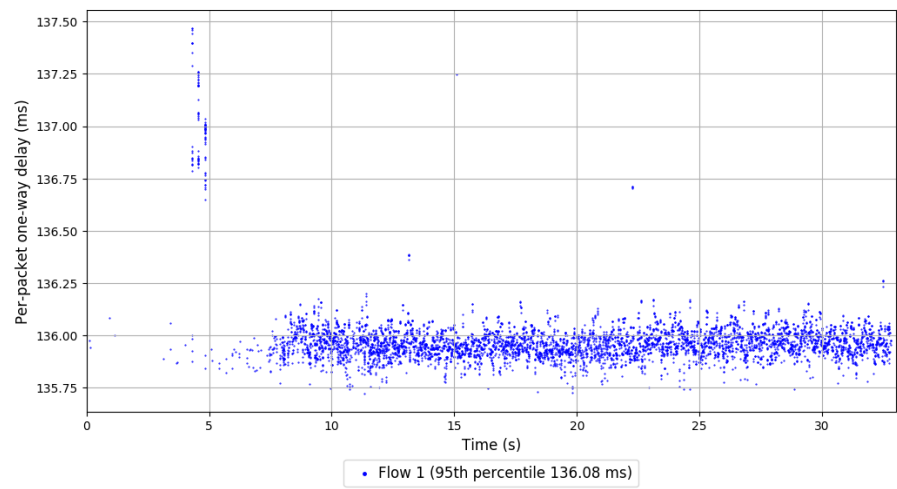
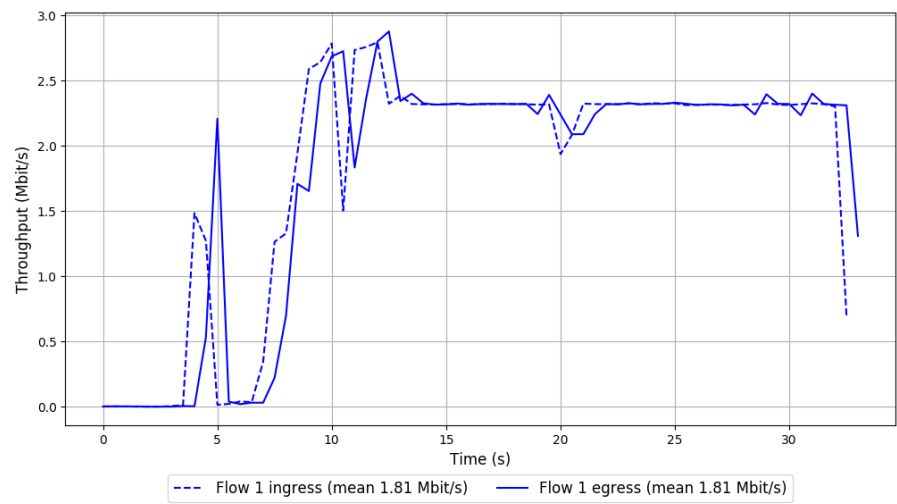
-- Flow 1:

Average throughput: 1.81 Mbit/s

95th percentile per-packet one-way delay: 136.084 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-06-30 13:53:44

End at: 2018-06-30 13:54:14

Local clock offset: 0.07 ms

Remote clock offset: 0.074 ms

Below is generated by plot.py at 2018-06-30 15:52:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 136.350 ms

Loss rate: 0.00%

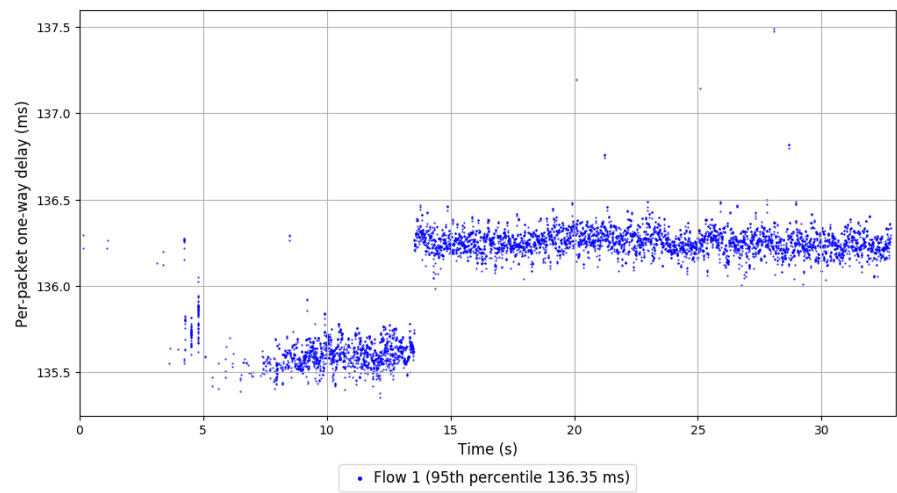
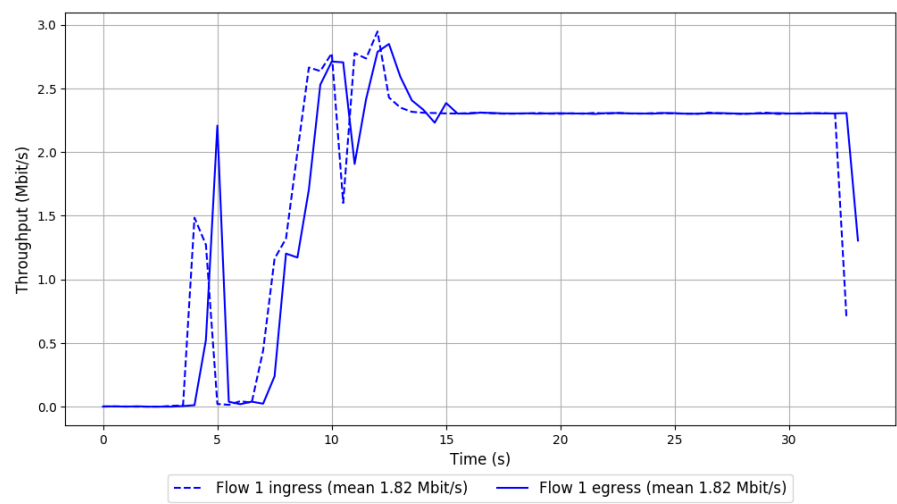
-- Flow 1:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 136.350 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-30 14:16:08

End at: 2018-06-30 14:16:38

Local clock offset: -0.228 ms

Remote clock offset: 0.395 ms

Below is generated by plot.py at 2018-06-30 15:52:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.81 Mbit/s

95th percentile per-packet one-way delay: 136.414 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.81 Mbit/s

95th percentile per-packet one-way delay: 136.414 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

