

Pantheon Report

Generated at 2018-06-20 21:47:34 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

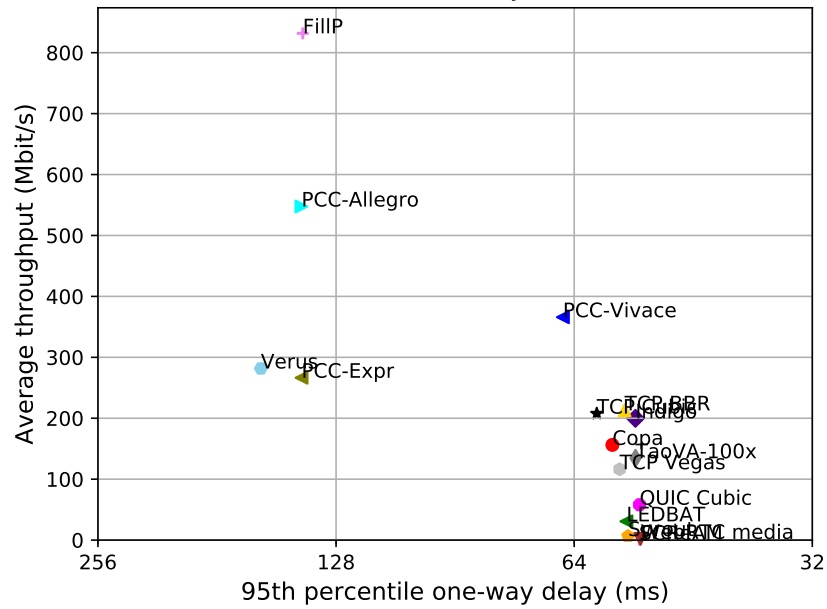
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

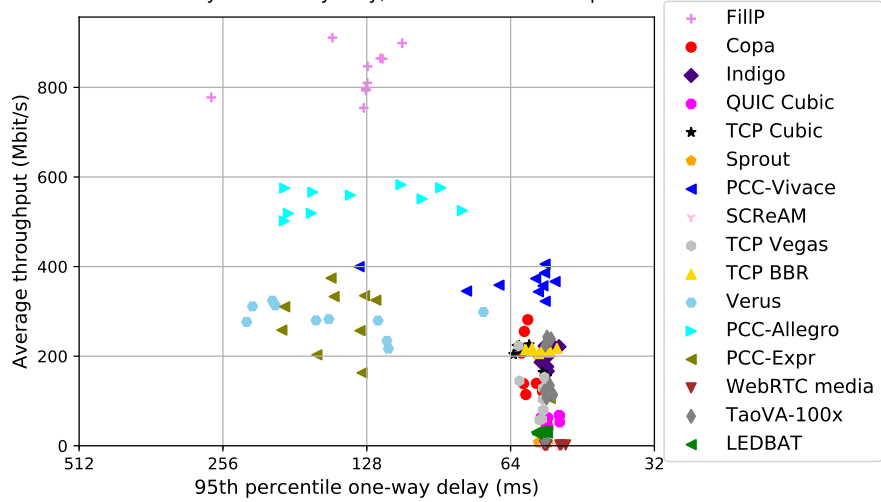
Git summary:

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

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



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



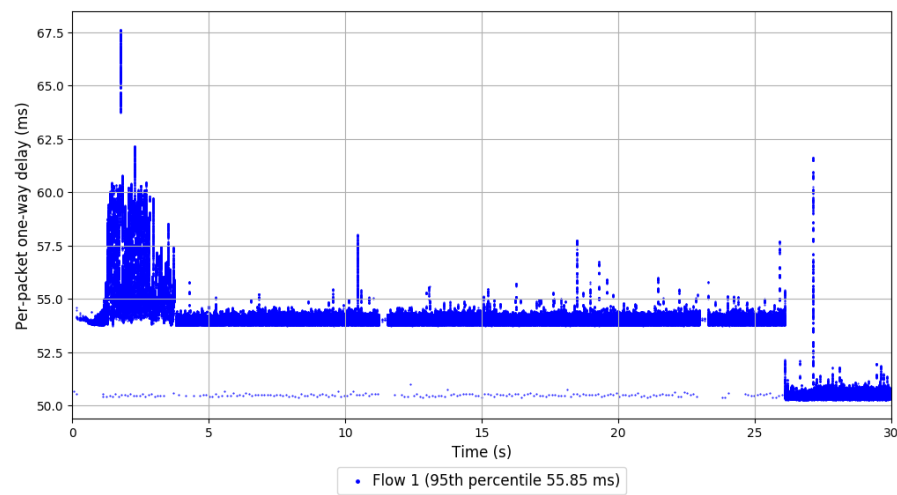
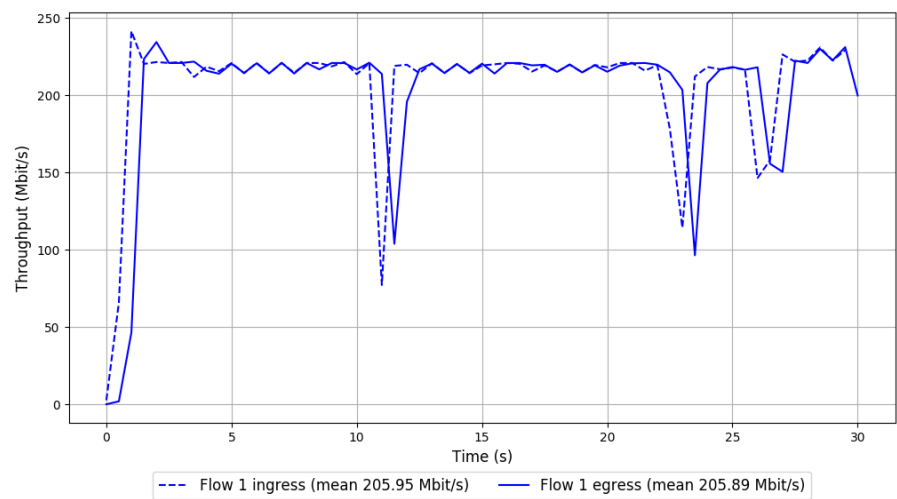
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	212.93	55.27	0.37
Copa	10	156.25	57.27	0.43
TCP Cubic	10	207.53	59.93	0.34
FillP	10	831.76	141.03	3.21
Indigo	10	199.84	53.55	0.38
LEDBAT	10	30.77	54.98	0.66
PCC-Allegro	10	547.50	141.57	1.37
PCC-Expr	10	266.43	141.55	1.74
QUIC Cubic	10	58.04	52.91	0.51
SCReAM	10	0.21	53.00	0.36
Sprout	10	6.65	54.72	0.29
TaoVA-100x	9	134.35	53.54	0.34
TCP Vegas	10	116.31	56.07	0.32
Verus	10	281.66	159.35	0.49
PCC-Vivace	10	365.84	66.15	0.38
WebRTC media	10	1.91	52.78	0.40

Run 1: Statistics of TCP BBR

Start at: 2018-06-20 16:54:46
End at: 2018-06-20 16:55:16
Local clock offset: -0.174 ms
Remote clock offset: -0.301 ms

Below is generated by plot.py at 2018-06-20 20:20:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 205.89 Mbit/s
95th percentile per-packet one-way delay: 55.852 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 205.89 Mbit/s
95th percentile per-packet one-way delay: 55.852 ms
Loss rate: 0.38%

Run 1: Report of TCP BBR — Data Link

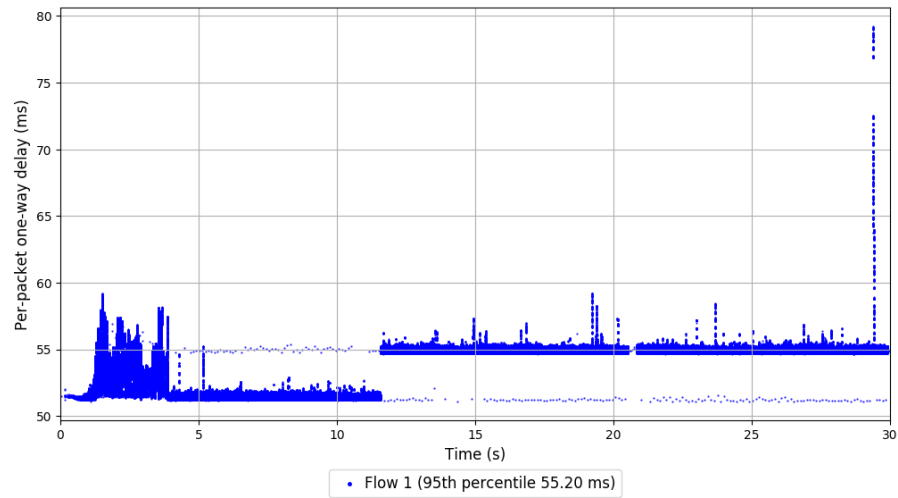
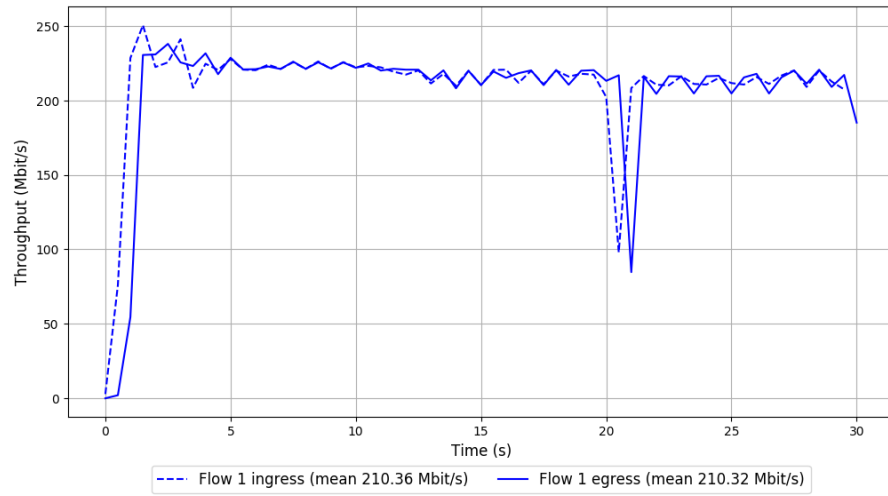


Run 2: Statistics of TCP BBR

Start at: 2018-06-20 17:15:11
End at: 2018-06-20 17:15:41
Local clock offset: -0.27 ms
Remote clock offset: -1.383 ms

Below is generated by plot.py at 2018-06-20 20:20:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 210.32 Mbit/s
95th percentile per-packet one-way delay: 55.201 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 210.32 Mbit/s
95th percentile per-packet one-way delay: 55.201 ms
Loss rate: 0.37%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-06-20 17:36:03

End at: 2018-06-20 17:36:33

Local clock offset: 0.083 ms

Remote clock offset: 0.008 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.20 Mbit/s

95th percentile per-packet one-way delay: 54.305 ms

Loss rate: 0.39%

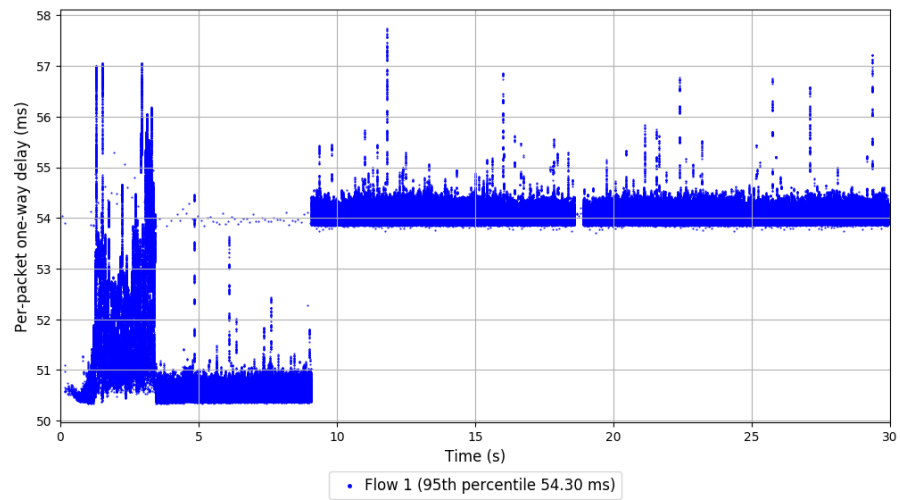
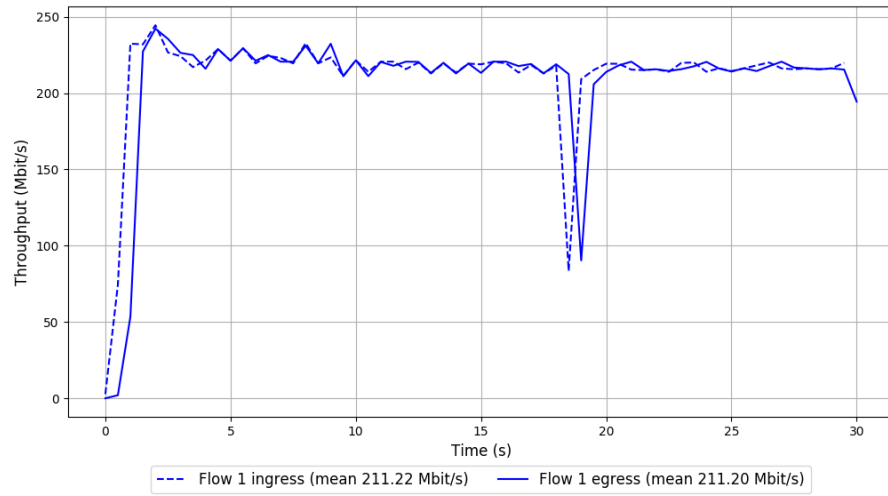
-- Flow 1:

Average throughput: 211.20 Mbit/s

95th percentile per-packet one-way delay: 54.305 ms

Loss rate: 0.39%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-06-20 17:56:33

End at: 2018-06-20 17:57:03

Local clock offset: -0.149 ms

Remote clock offset: 1.237 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.44 Mbit/s

95th percentile per-packet one-way delay: 52.809 ms

Loss rate: 0.36%

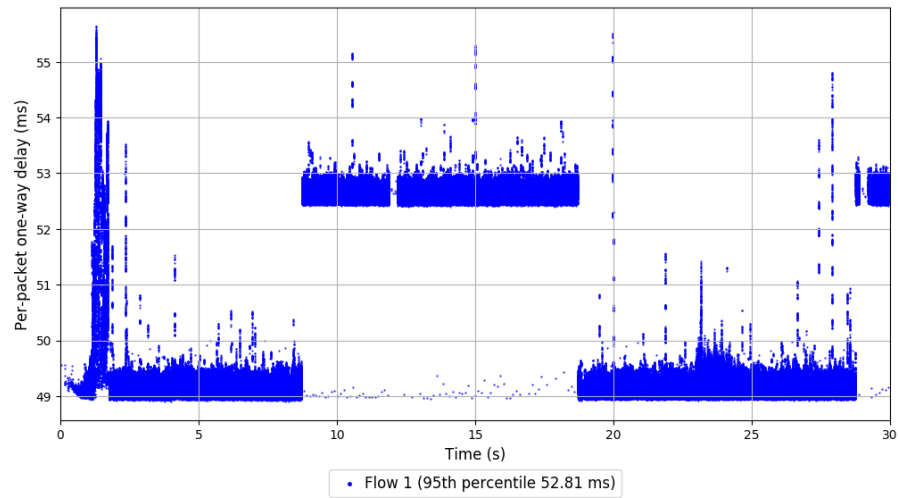
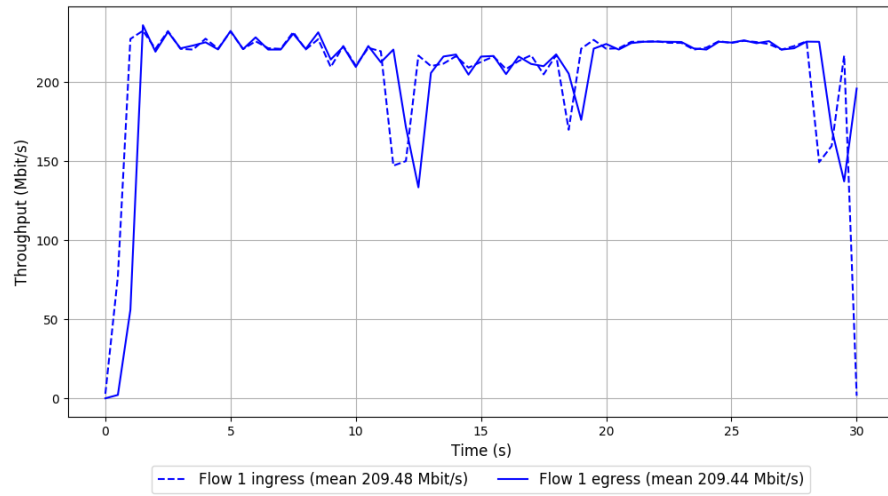
-- Flow 1:

Average throughput: 209.44 Mbit/s

95th percentile per-packet one-way delay: 52.809 ms

Loss rate: 0.36%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-06-20 18:16:54

End at: 2018-06-20 18:17:24

Local clock offset: 0.076 ms

Remote clock offset: -1.312 ms

Below is generated by plot.py at 2018-06-20 20:20:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.73 Mbit/s

95th percentile per-packet one-way delay: 59.490 ms

Loss rate: 0.36%

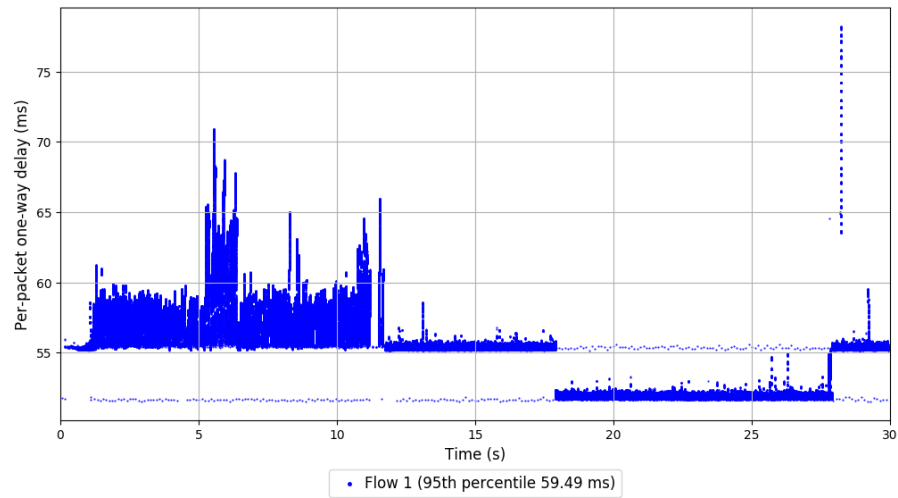
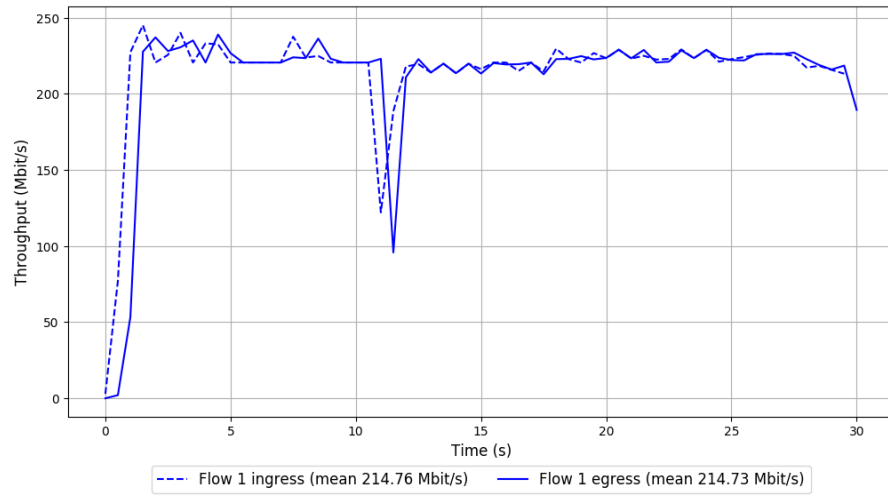
-- Flow 1:

Average throughput: 214.73 Mbit/s

95th percentile per-packet one-way delay: 59.490 ms

Loss rate: 0.36%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-06-20 18:37:40

End at: 2018-06-20 18:38:10

Local clock offset: 0.011 ms

Remote clock offset: -0.065 ms

Below is generated by plot.py at 2018-06-20 20:20:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.48 Mbit/s

95th percentile per-packet one-way delay: 57.686 ms

Loss rate: 0.36%

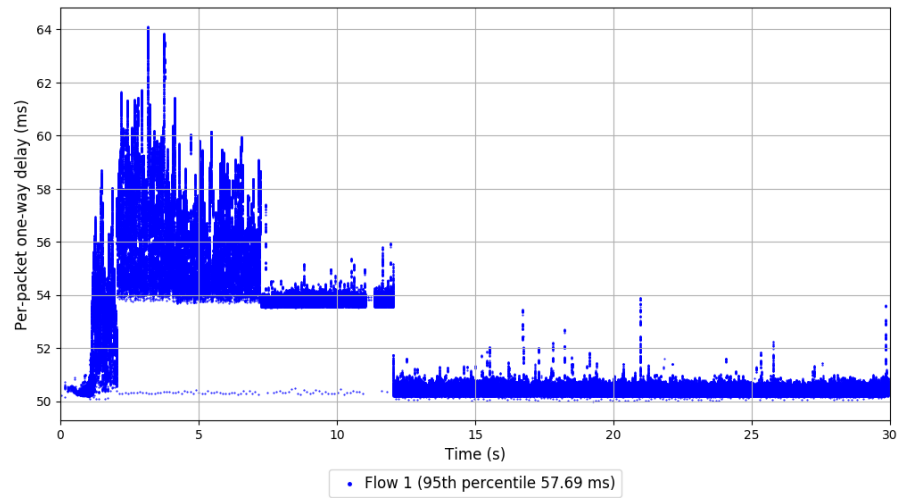
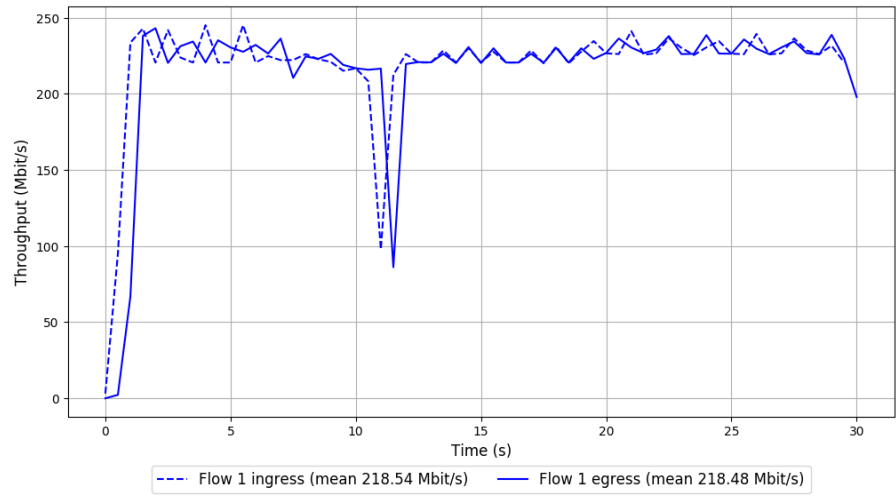
-- Flow 1:

Average throughput: 218.48 Mbit/s

95th percentile per-packet one-way delay: 57.686 ms

Loss rate: 0.36%

Run 6: Report of TCP BBR — Data Link

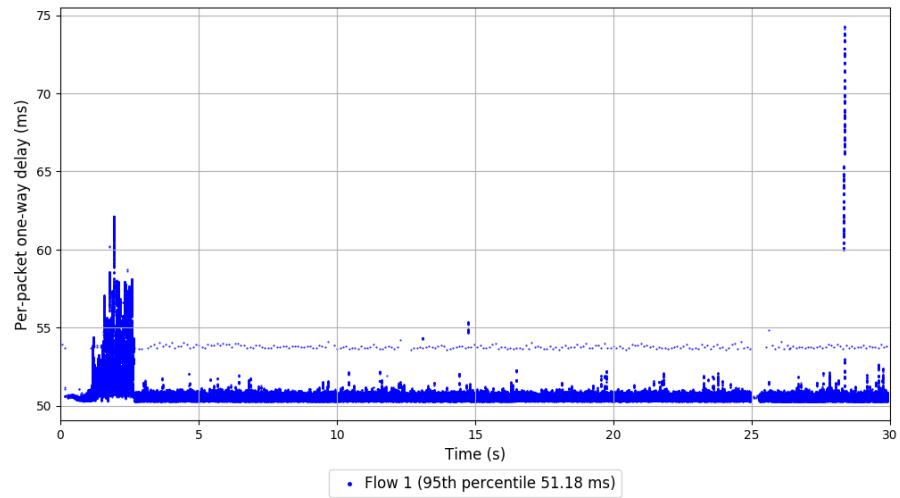
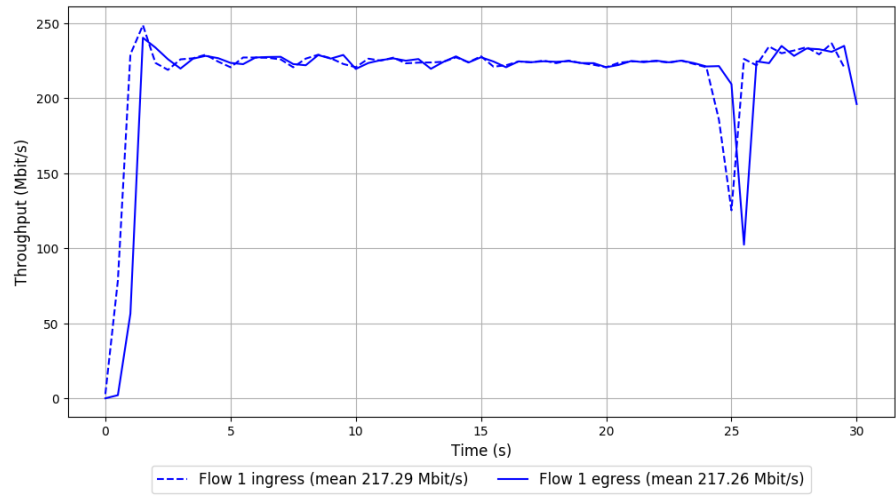


Run 7: Statistics of TCP BBR

Start at: 2018-06-20 18:57:53
End at: 2018-06-20 18:58:23
Local clock offset: -0.052 ms
Remote clock offset: -0.361 ms

Below is generated by plot.py at 2018-06-20 20:20:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 217.26 Mbit/s
95th percentile per-packet one-way delay: 51.181 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 217.26 Mbit/s
95th percentile per-packet one-way delay: 51.181 ms
Loss rate: 0.38%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-06-20 19:18:42

End at: 2018-06-20 19:19:12

Local clock offset: 0.061 ms

Remote clock offset: 0.068 ms

Below is generated by plot.py at 2018-06-20 20:20:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.03 Mbit/s

95th percentile per-packet one-way delay: 54.583 ms

Loss rate: 0.37%

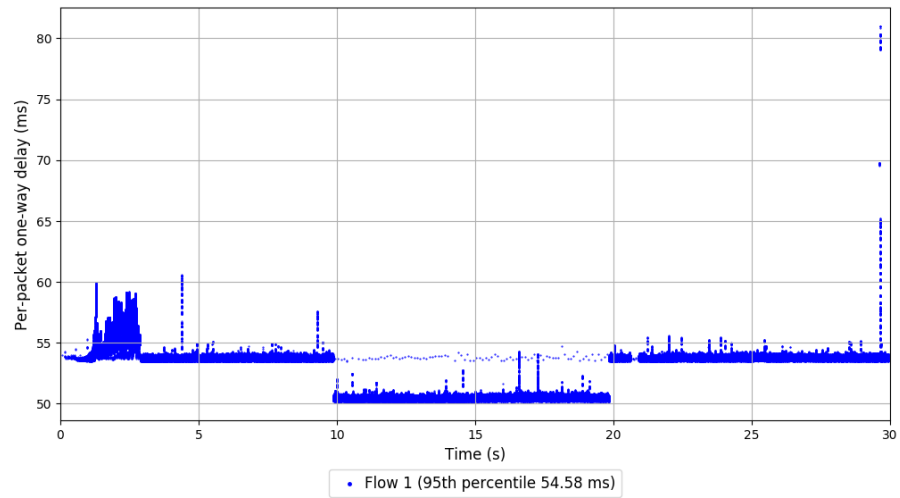
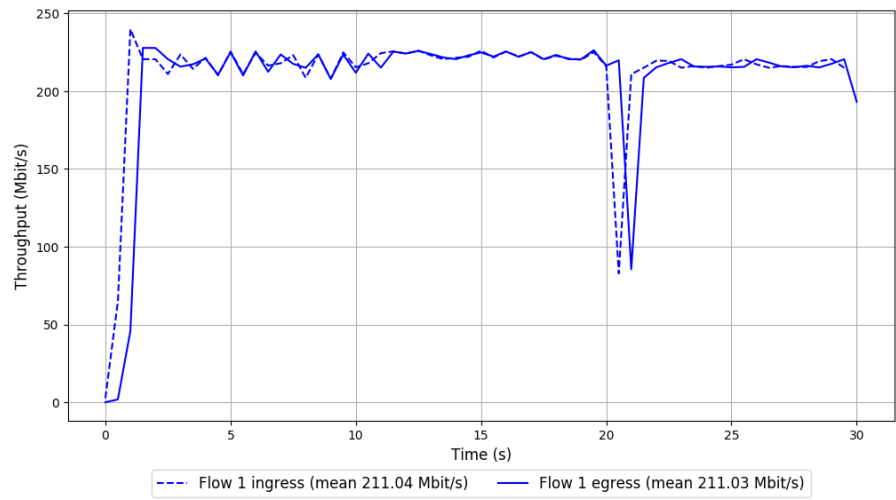
-- Flow 1:

Average throughput: 211.03 Mbit/s

95th percentile per-packet one-way delay: 54.583 ms

Loss rate: 0.37%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-06-20 19:39:33

End at: 2018-06-20 19:40:03

Local clock offset: 0.18 ms

Remote clock offset: -0.046 ms

Below is generated by plot.py at 2018-06-20 20:23:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.18 Mbit/s

95th percentile per-packet one-way delay: 57.420 ms

Loss rate: 0.36%

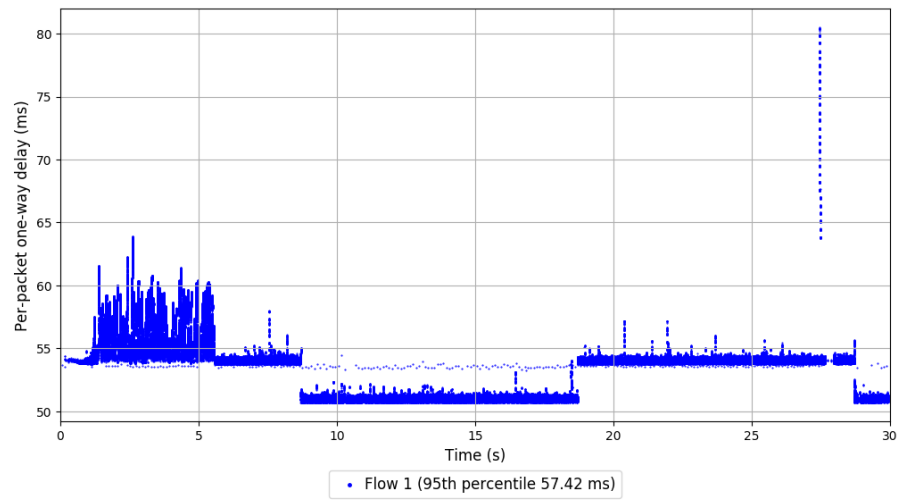
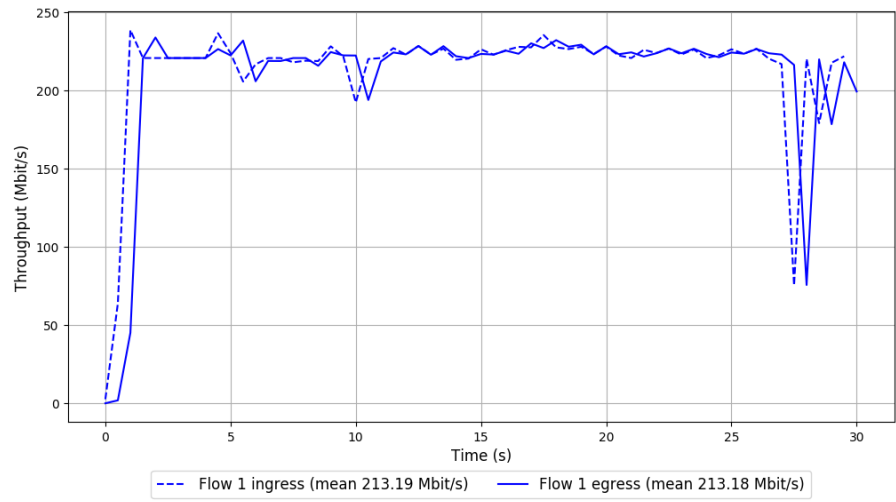
-- Flow 1:

Average throughput: 213.18 Mbit/s

95th percentile per-packet one-way delay: 57.420 ms

Loss rate: 0.36%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-06-20 20:00:05

End at: 2018-06-20 20:00:35

Local clock offset: -0.103 ms

Remote clock offset: 0.285 ms

Below is generated by plot.py at 2018-06-20 20:24:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.76 Mbit/s

95th percentile per-packet one-way delay: 54.171 ms

Loss rate: 0.37%

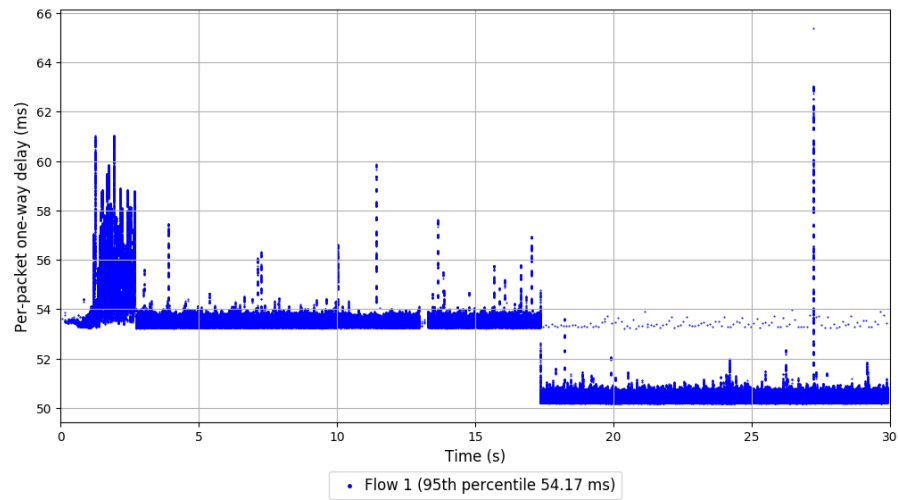
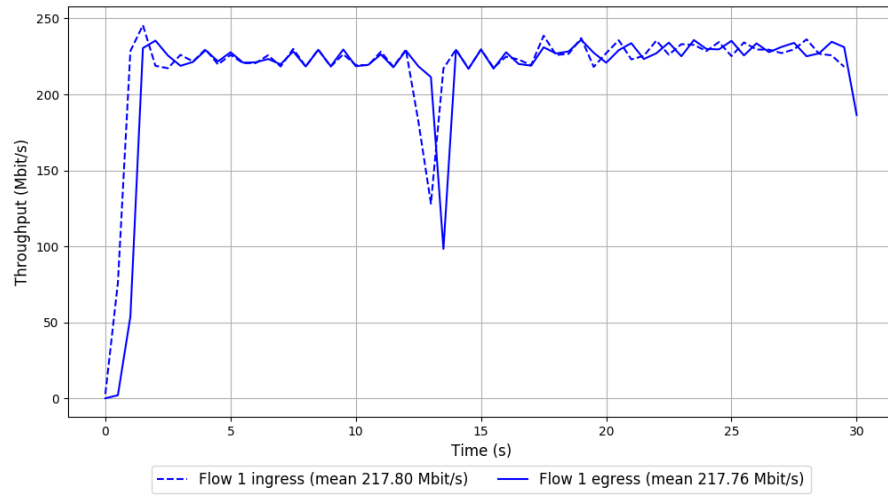
-- Flow 1:

Average throughput: 217.76 Mbit/s

95th percentile per-packet one-way delay: 54.171 ms

Loss rate: 0.37%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-06-20 17:00:03

End at: 2018-06-20 17:00:33

Local clock offset: -0.098 ms

Remote clock offset: 0.011 ms

Below is generated by plot.py at 2018-06-20 20:24:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.82 Mbit/s

95th percentile per-packet one-way delay: 53.700 ms

Loss rate: 0.45%

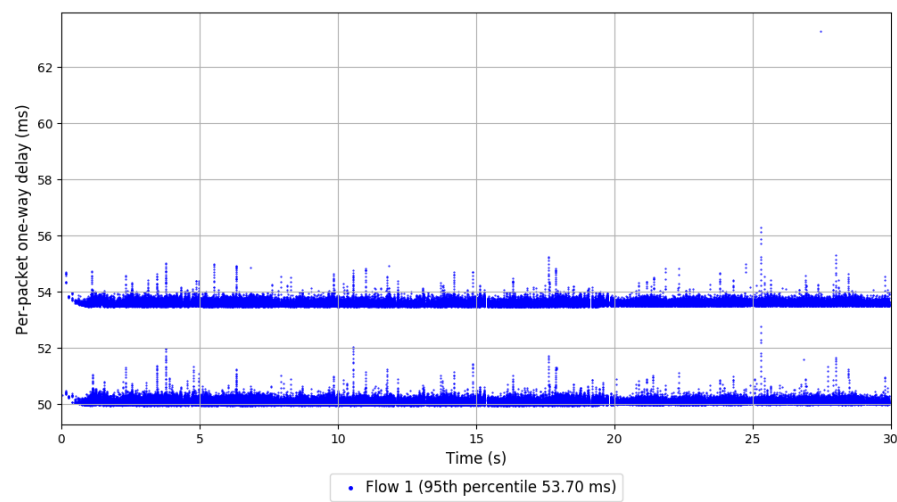
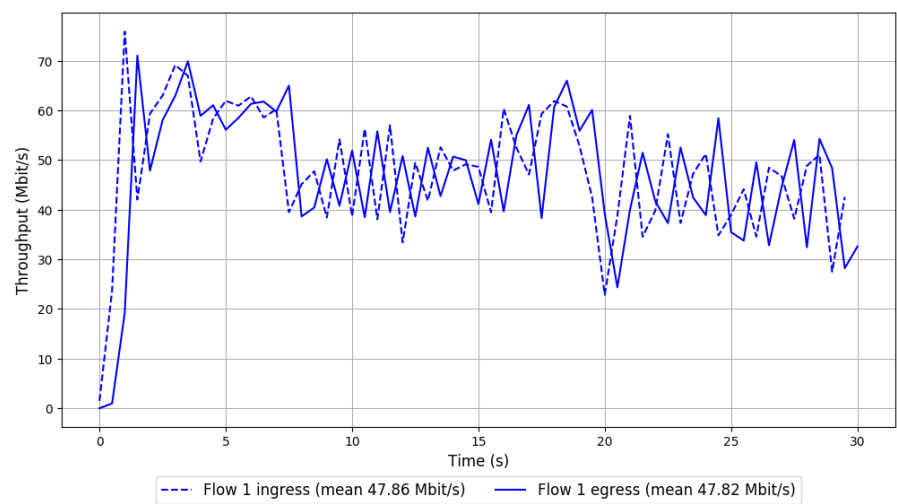
-- Flow 1:

Average throughput: 47.82 Mbit/s

95th percentile per-packet one-way delay: 53.700 ms

Loss rate: 0.45%

Run 1: Report of Copa — Data Link

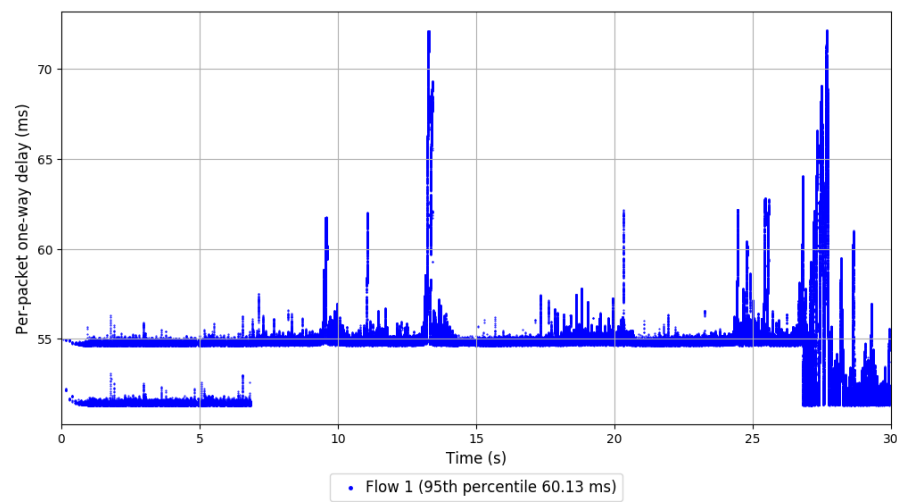
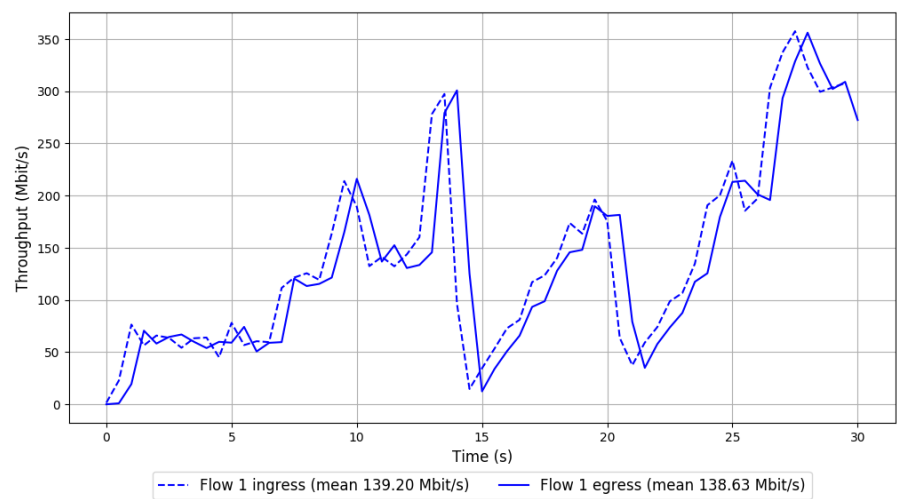


Run 2: Statistics of Copa

Start at: 2018-06-20 17:20:35
End at: 2018-06-20 17:21:05
Local clock offset: -0.059 ms
Remote clock offset: -1.253 ms

Below is generated by plot.py at 2018-06-20 20:24:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 138.63 Mbit/s
95th percentile per-packet one-way delay: 60.129 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 138.63 Mbit/s
95th percentile per-packet one-way delay: 60.129 ms
Loss rate: 0.77%

Run 2: Report of Copa — Data Link

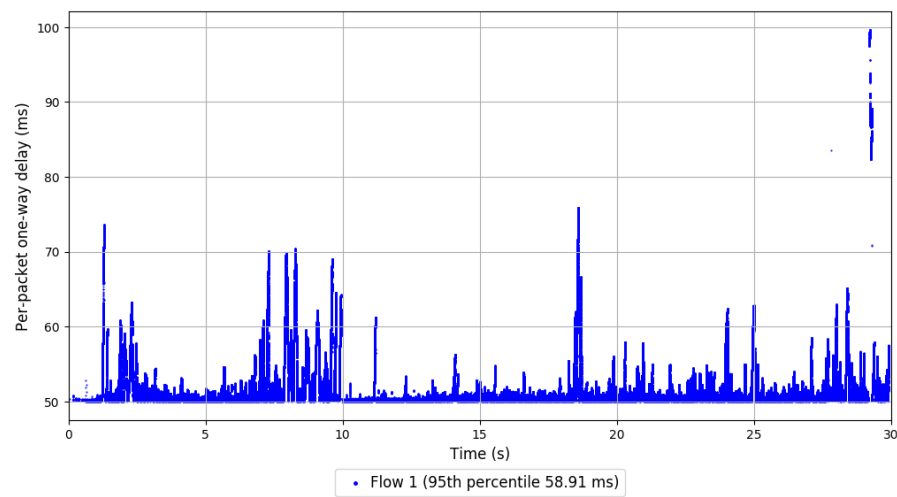
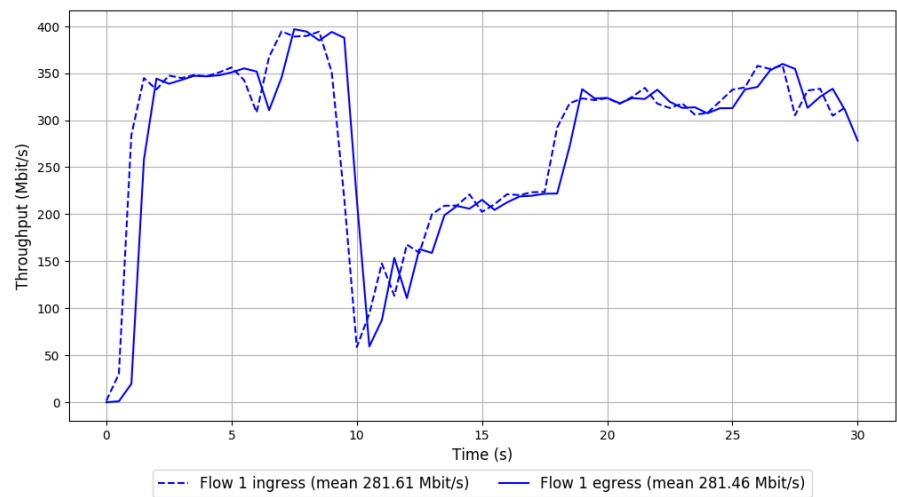


Run 3: Statistics of Copa

Start at: 2018-06-20 17:41:14
End at: 2018-06-20 17:41:44
Local clock offset: -0.079 ms
Remote clock offset: 0.17 ms

Below is generated by plot.py at 2018-06-20 20:29:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 281.46 Mbit/s
95th percentile per-packet one-way delay: 58.912 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 281.46 Mbit/s
95th percentile per-packet one-way delay: 58.912 ms
Loss rate: 0.40%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-06-20 18:01:42

End at: 2018-06-20 18:02:13

Local clock offset: -0.041 ms

Remote clock offset: 0.33 ms

Below is generated by plot.py at 2018-06-20 20:29:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 139.46 Mbit/s

95th percentile per-packet one-way delay: 56.529 ms

Loss rate: 0.73%

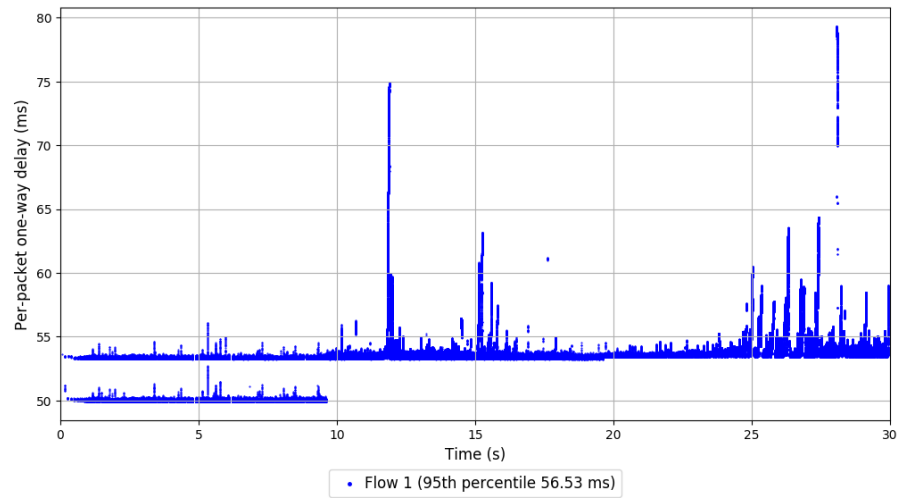
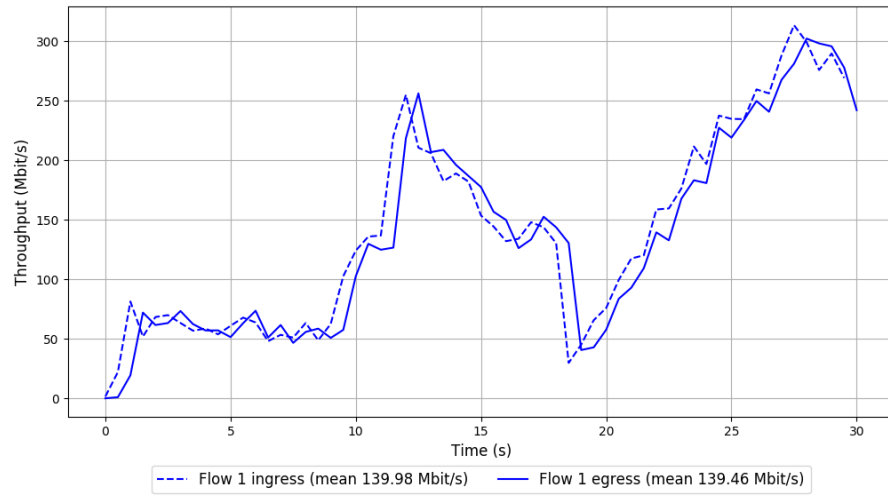
-- Flow 1:

Average throughput: 139.46 Mbit/s

95th percentile per-packet one-way delay: 56.529 ms

Loss rate: 0.73%

Run 4: Report of Copa — Data Link

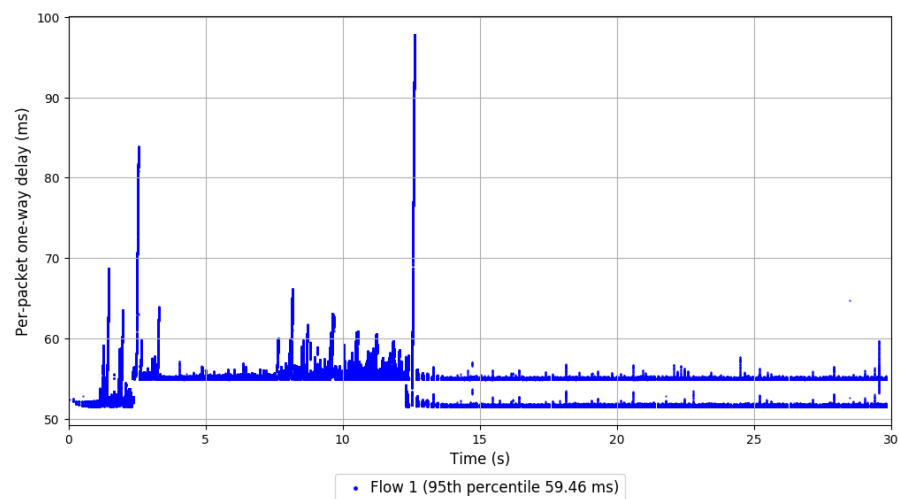
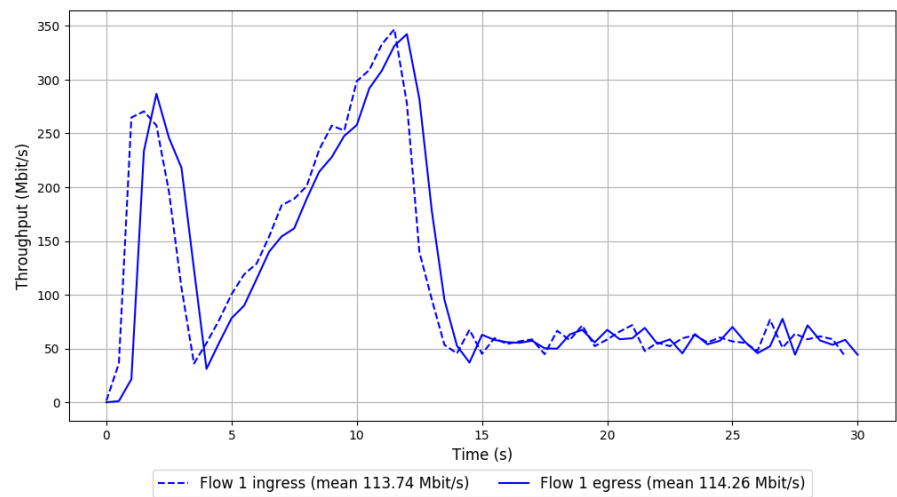


Run 5: Statistics of Copa

Start at: 2018-06-20 18:22:20
End at: 2018-06-20 18:22:50
Local clock offset: -0.016 ms
Remote clock offset: -1.248 ms

Below is generated by plot.py at 2018-06-20 20:29:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 114.26 Mbit/s
95th percentile per-packet one-way delay: 59.459 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 114.26 Mbit/s
95th percentile per-packet one-way delay: 59.459 ms
Loss rate: 0.17%

Run 5: Report of Copa — Data Link

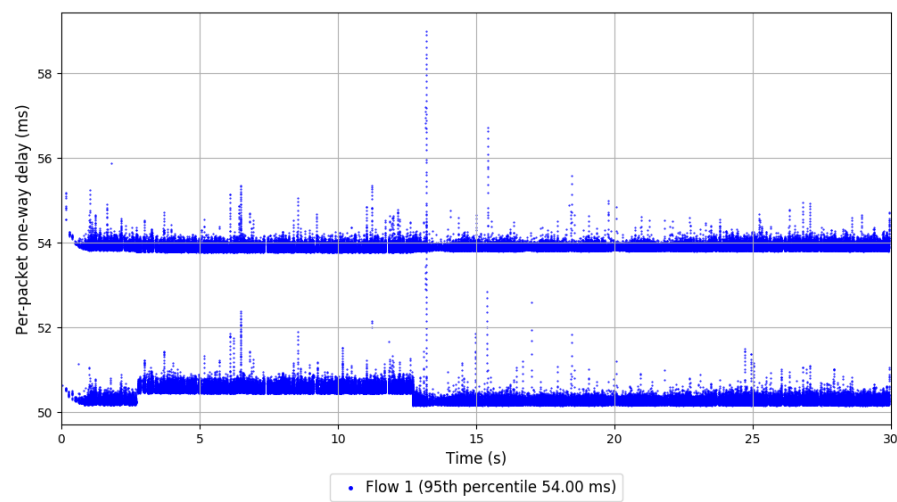
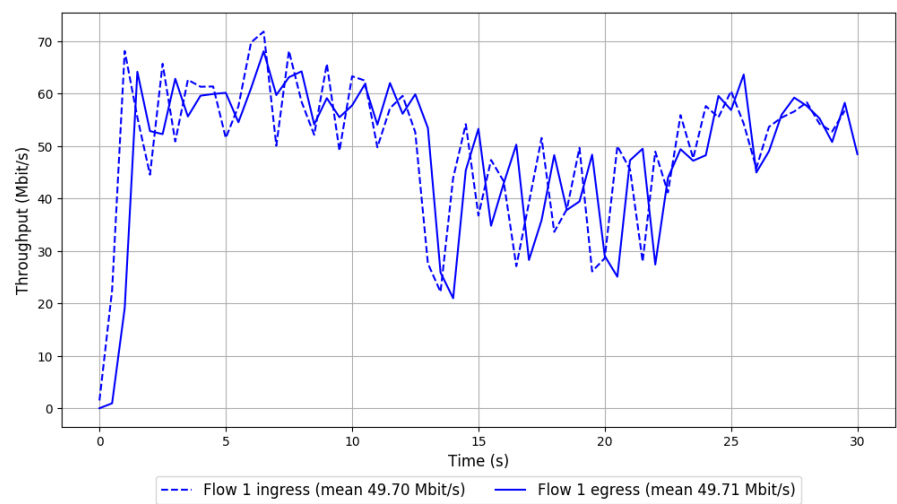


Run 6: Statistics of Copa

Start at: 2018-06-20 18:42:59
End at: 2018-06-20 18:43:29
Local clock offset: 0.089 ms
Remote clock offset: -0.337 ms

Below is generated by plot.py at 2018-06-20 20:29:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 49.71 Mbit/s
95th percentile per-packet one-way delay: 54.002 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 49.71 Mbit/s
95th percentile per-packet one-way delay: 54.002 ms
Loss rate: 0.35%

Run 6: Report of Copa — Data Link

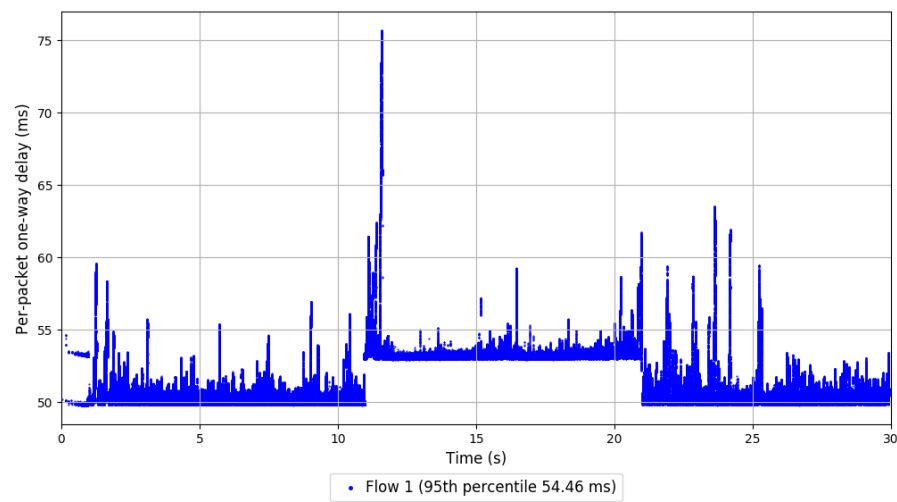
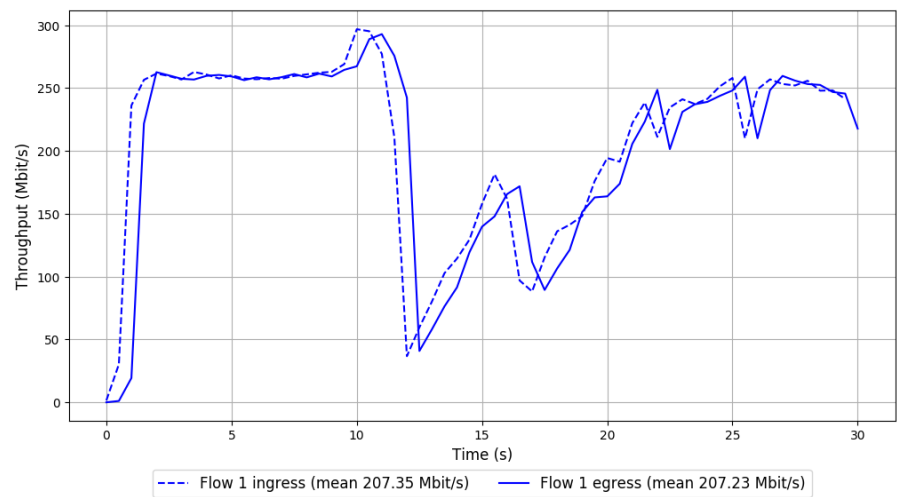


Run 7: Statistics of Copa

Start at: 2018-06-20 19:03:21
End at: 2018-06-20 19:03:51
Local clock offset: -0.338 ms
Remote clock offset: -0.213 ms

Below is generated by plot.py at 2018-06-20 20:29:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 207.23 Mbit/s
95th percentile per-packet one-way delay: 54.460 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 207.23 Mbit/s
95th percentile per-packet one-way delay: 54.460 ms
Loss rate: 0.41%

Run 7: Report of Copa — Data Link

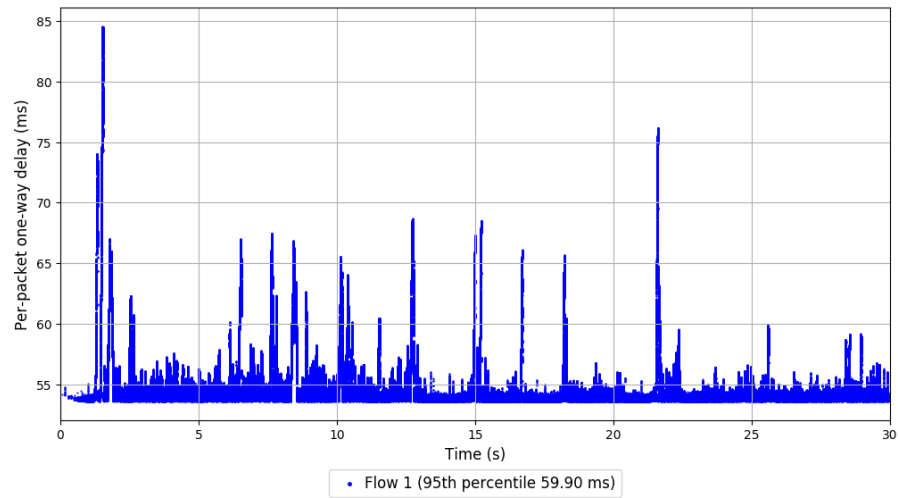
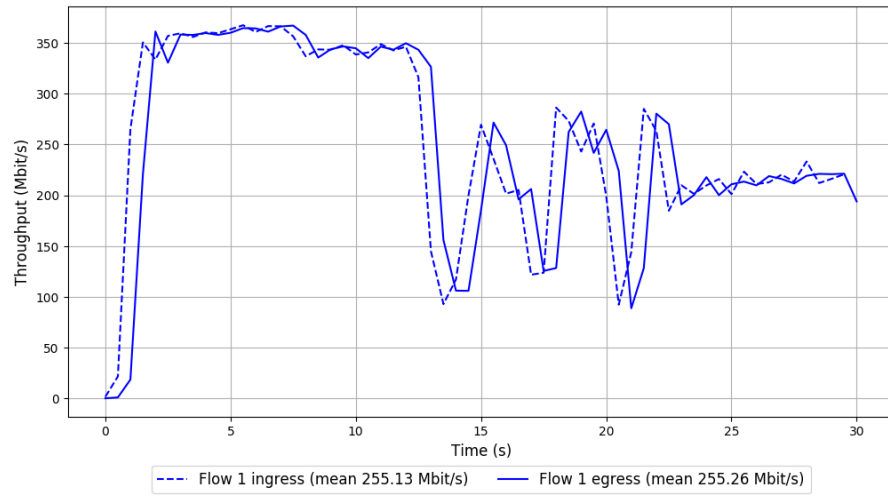


Run 8: Statistics of Copa

Start at: 2018-06-20 19:24:07
End at: 2018-06-20 19:24:37
Local clock offset: 0.047 ms
Remote clock offset: -0.086 ms

Below is generated by plot.py at 2018-06-20 20:30:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 255.26 Mbit/s
95th percentile per-packet one-way delay: 59.903 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 255.26 Mbit/s
95th percentile per-packet one-way delay: 59.903 ms
Loss rate: 0.30%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-06-20 19:44:58

End at: 2018-06-20 19:45:28

Local clock offset: 0.017 ms

Remote clock offset: 1.308 ms

Below is generated by plot.py at 2018-06-20 20:30:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 121.72 Mbit/s

95th percentile per-packet one-way delay: 54.878 ms

Loss rate: 0.13%

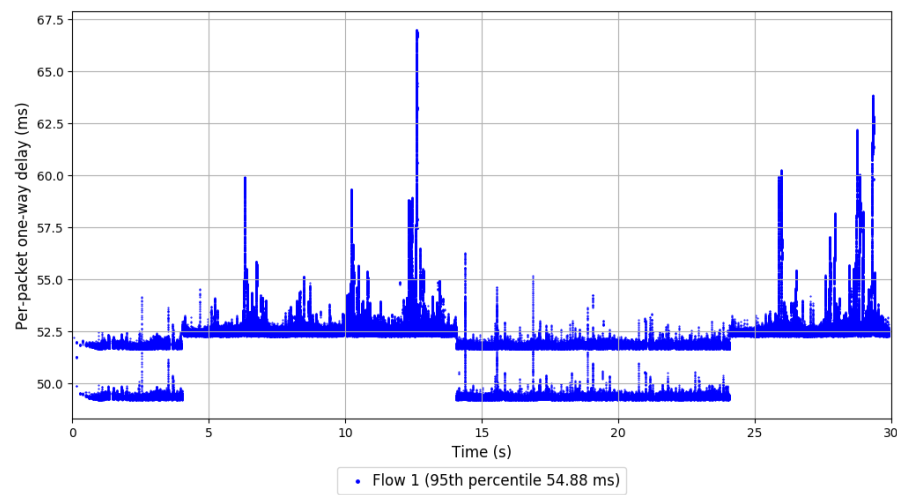
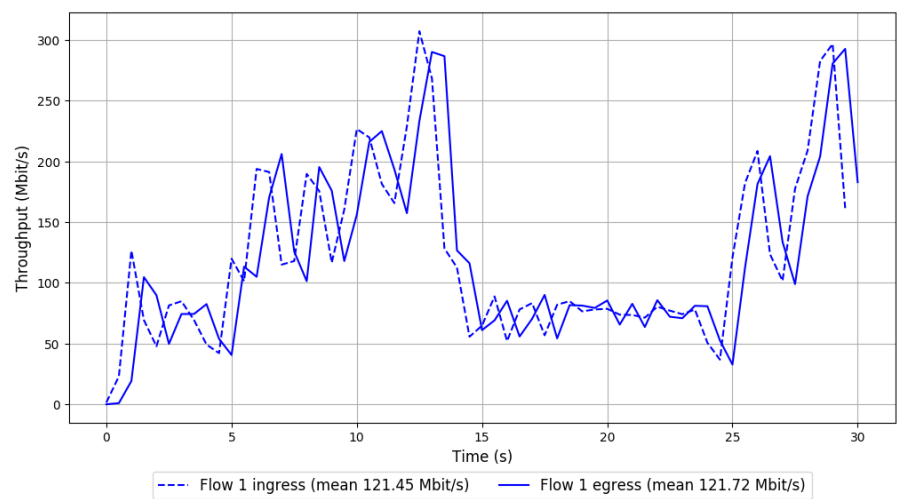
-- Flow 1:

Average throughput: 121.72 Mbit/s

95th percentile per-packet one-way delay: 54.878 ms

Loss rate: 0.13%

Run 9: Report of Copa — Data Link

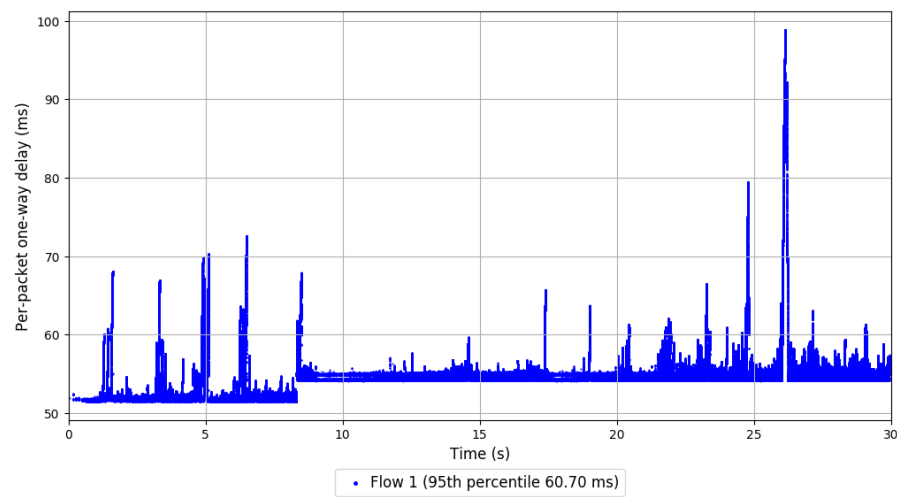
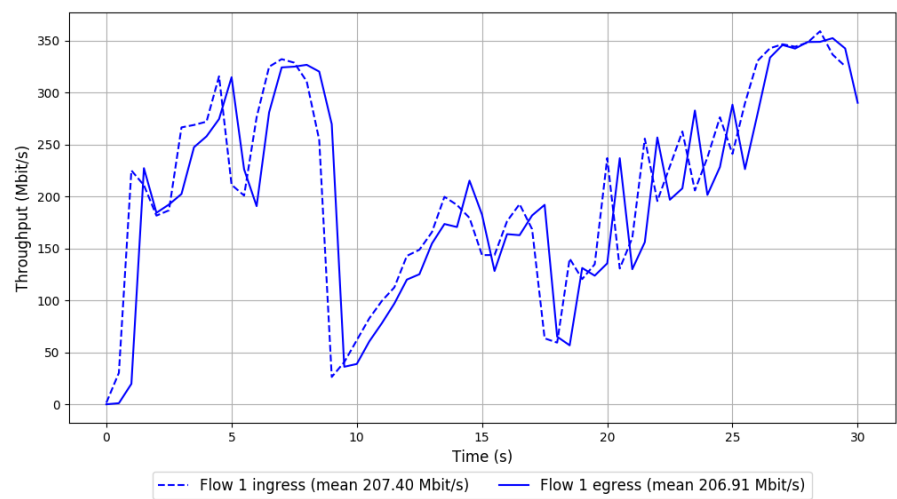


Run 10: Statistics of Copa

Start at: 2018-06-20 20:05:14
End at: 2018-06-20 20:05:44
Local clock offset: -0.127 ms
Remote clock offset: -1.195 ms

Below is generated by plot.py at 2018-06-20 20:31:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 206.91 Mbit/s
95th percentile per-packet one-way delay: 60.697 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 206.91 Mbit/s
95th percentile per-packet one-way delay: 60.697 ms
Loss rate: 0.59%

Run 10: Report of Copa — Data Link

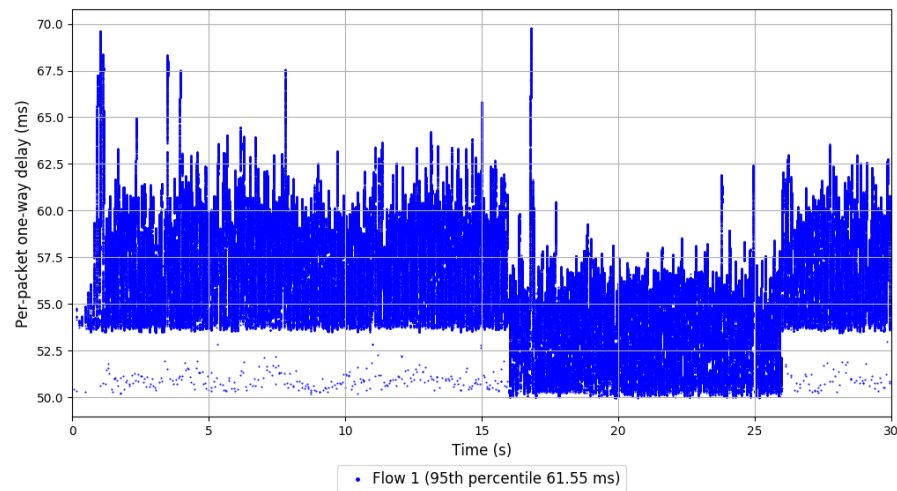
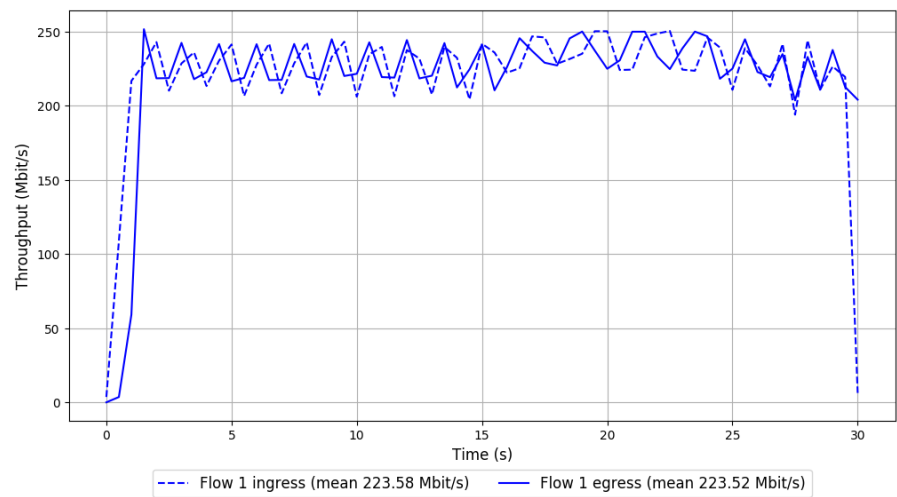


Run 1: Statistics of TCP Cubic

Start at: 2018-06-20 16:45:56
End at: 2018-06-20 16:46:26
Local clock offset: -0.324 ms
Remote clock offset: -0.041 ms

Below is generated by plot.py at 2018-06-20 20:31:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 223.52 Mbit/s
95th percentile per-packet one-way delay: 61.551 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 223.52 Mbit/s
95th percentile per-packet one-way delay: 61.551 ms
Loss rate: 0.38%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-06-20 17:06:26

End at: 2018-06-20 17:06:56

Local clock offset: 0.006 ms

Remote clock offset: -0.2 ms

Below is generated by plot.py at 2018-06-20 20:31:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.85 Mbit/s

95th percentile per-packet one-way delay: 63.108 ms

Loss rate: 0.16%

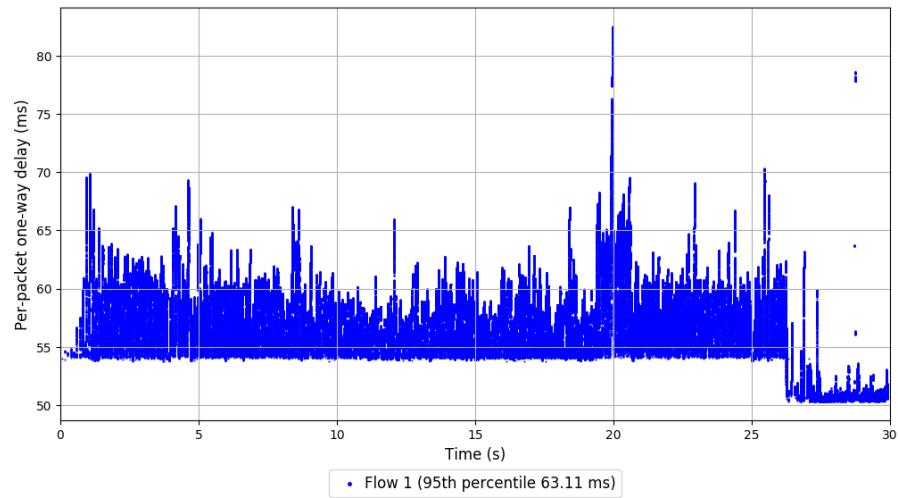
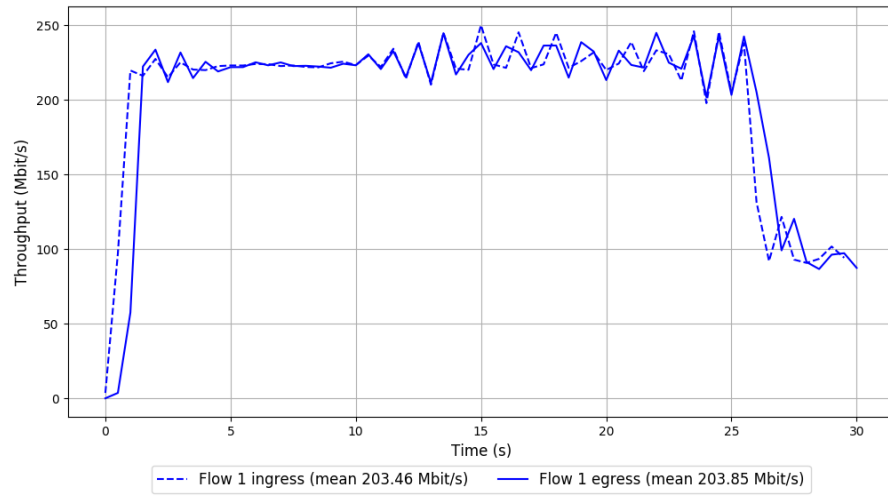
-- Flow 1:

Average throughput: 203.85 Mbit/s

95th percentile per-packet one-way delay: 63.108 ms

Loss rate: 0.16%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-06-20 17:27:11

End at: 2018-06-20 17:27:41

Local clock offset: -0.106 ms

Remote clock offset: 0.167 ms

Below is generated by plot.py at 2018-06-20 20:31:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.23 Mbit/s

95th percentile per-packet one-way delay: 61.442 ms

Loss rate: 0.37%

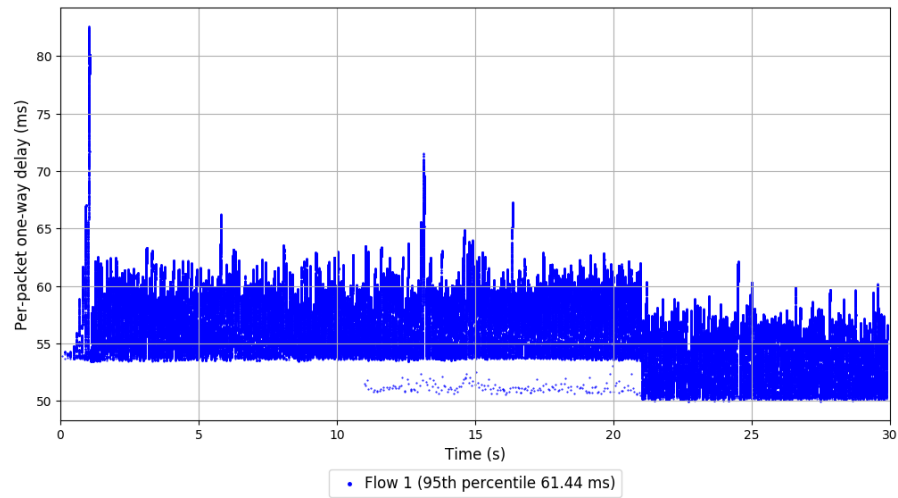
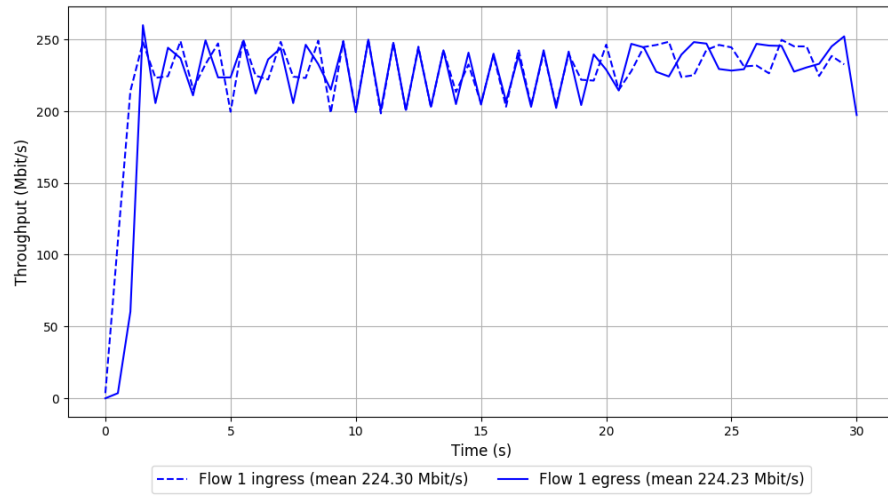
-- Flow 1:

Average throughput: 224.23 Mbit/s

95th percentile per-packet one-way delay: 61.442 ms

Loss rate: 0.37%

Run 3: Report of TCP Cubic — Data Link

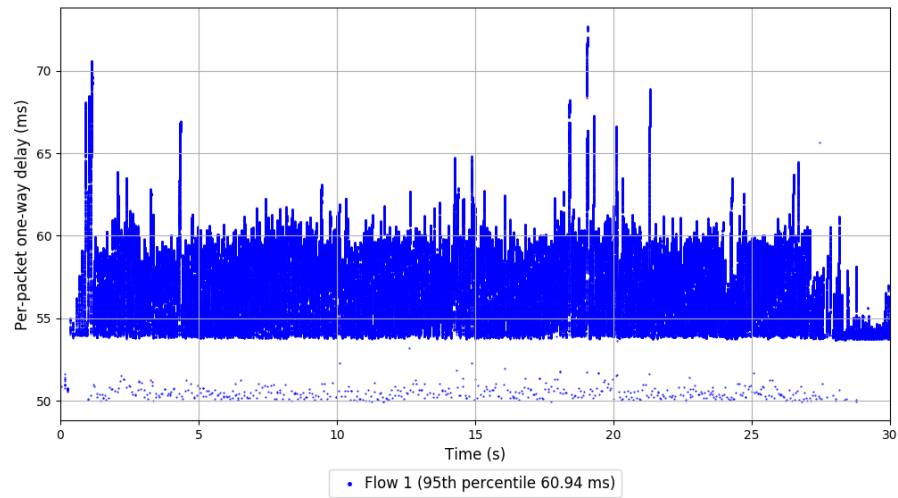
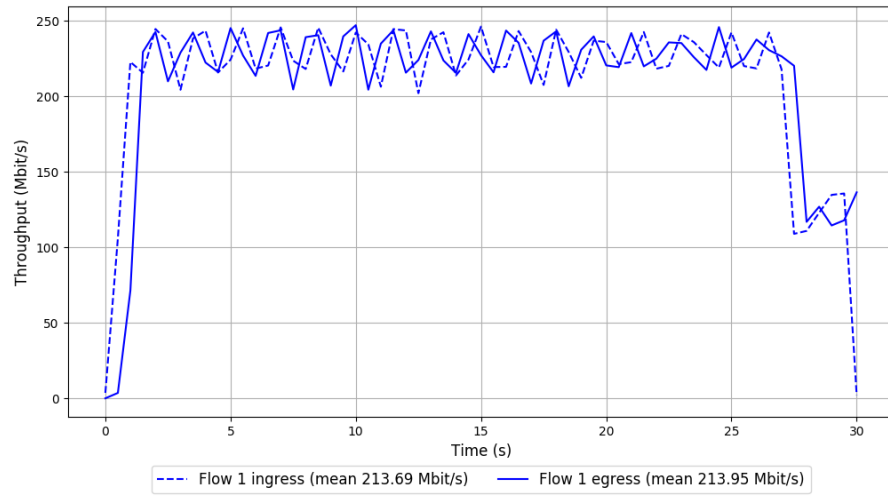


Run 4: Statistics of TCP Cubic

Start at: 2018-06-20 17:47:42
End at: 2018-06-20 17:48:12
Local clock offset: -0.183 ms
Remote clock offset: -0.074 ms

Below is generated by plot.py at 2018-06-20 20:32:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 213.95 Mbit/s
95th percentile per-packet one-way delay: 60.935 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 213.95 Mbit/s
95th percentile per-packet one-way delay: 60.935 ms
Loss rate: 0.22%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-06-20 18:08:12

End at: 2018-06-20 18:08:42

Local clock offset: 0.01 ms

Remote clock offset: 1.413 ms

Below is generated by plot.py at 2018-06-20 20:32:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.66 Mbit/s

95th percentile per-packet one-way delay: 53.768 ms

Loss rate: 0.27%

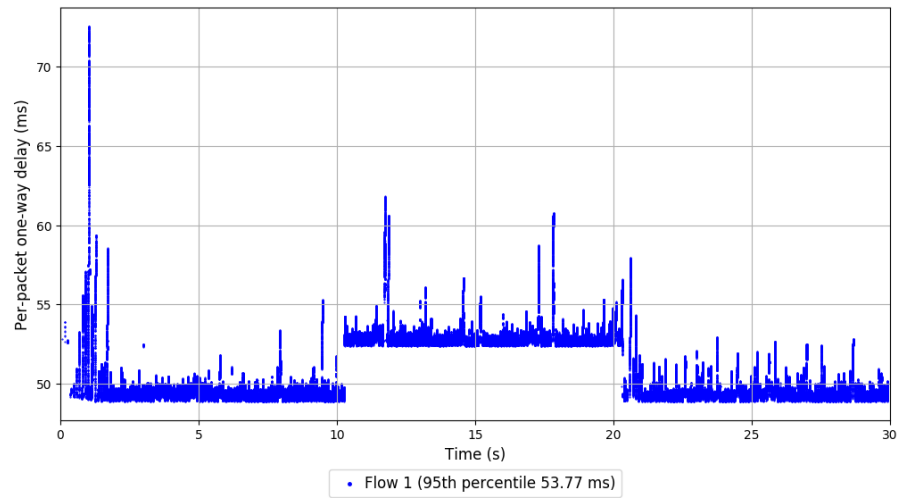
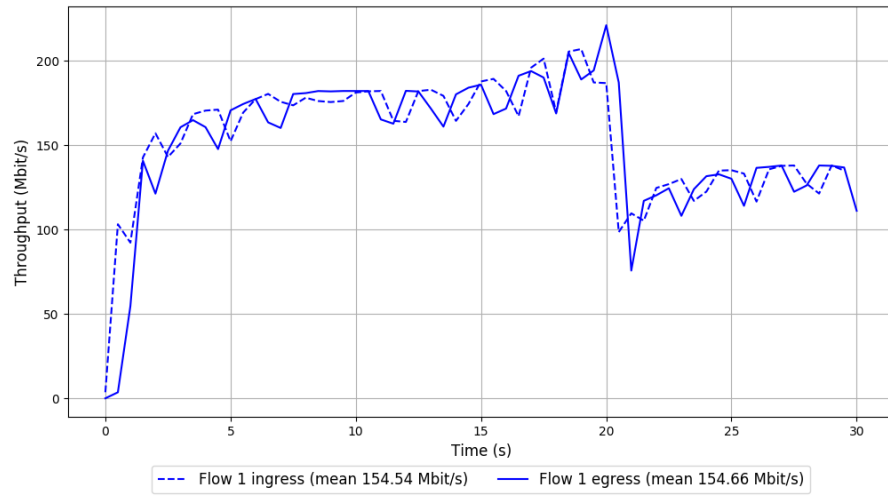
-- Flow 1:

Average throughput: 154.66 Mbit/s

95th percentile per-packet one-way delay: 53.768 ms

Loss rate: 0.27%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-06-20 18:28:54

End at: 2018-06-20 18:29:24

Local clock offset: 0.017 ms

Remote clock offset: 0.05 ms

Below is generated by plot.py at 2018-06-20 20:32:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.42 Mbit/s

95th percentile per-packet one-way delay: 61.511 ms

Loss rate: 0.38%

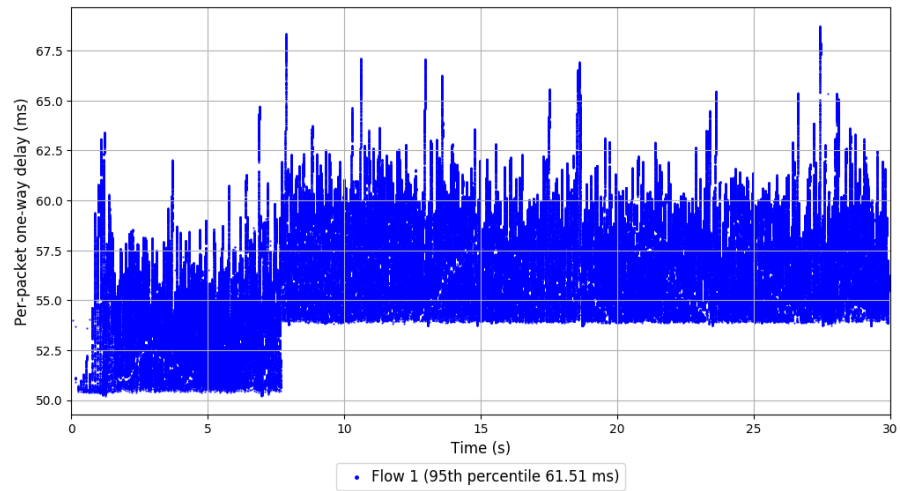
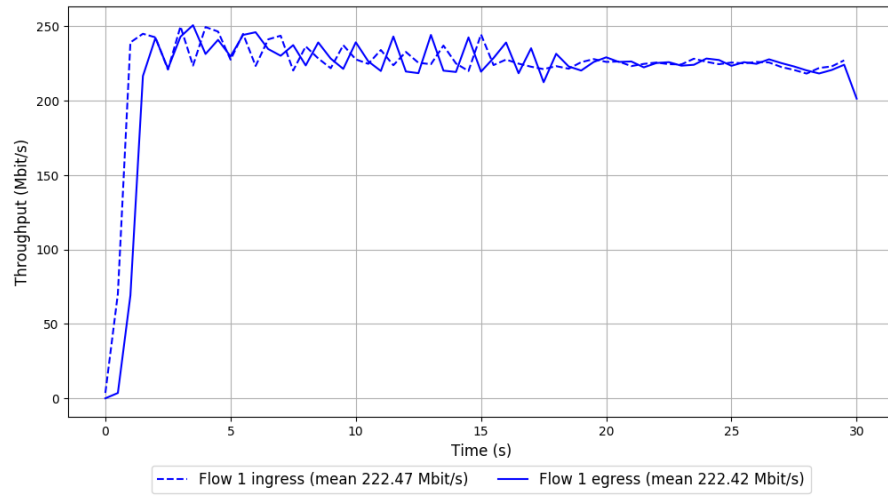
-- Flow 1:

Average throughput: 222.42 Mbit/s

95th percentile per-packet one-way delay: 61.511 ms

Loss rate: 0.38%

Run 6: Report of TCP Cubic — Data Link

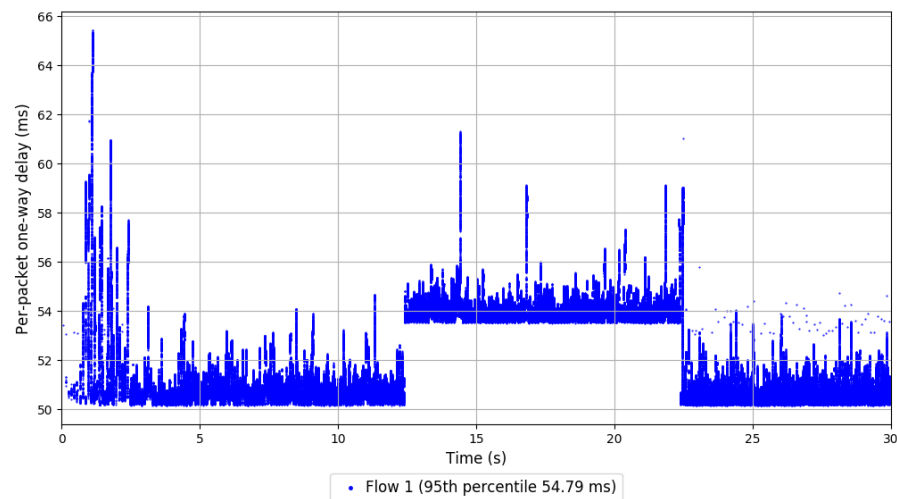
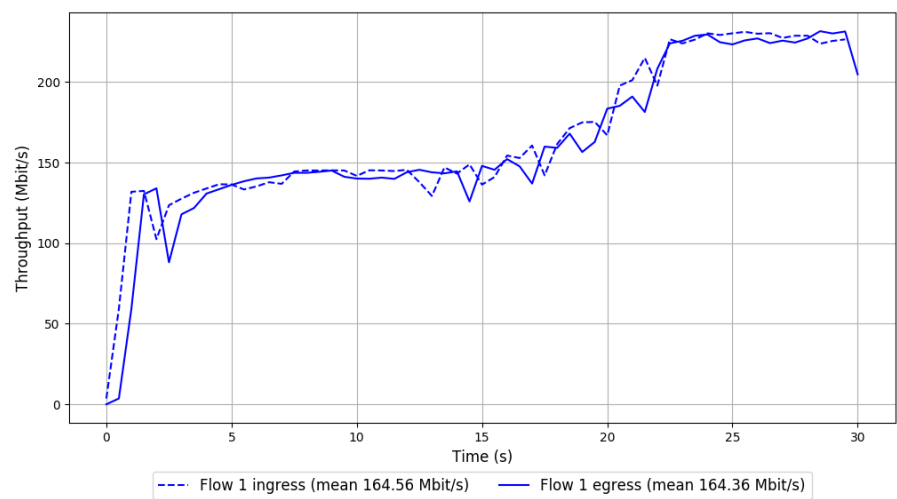


Run 7: Statistics of TCP Cubic

Start at: 2018-06-20 18:49:10
End at: 2018-06-20 18:49:40
Local clock offset: 0.0 ms
Remote clock offset: -0.152 ms

Below is generated by plot.py at 2018-06-20 20:32:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 164.36 Mbit/s
95th percentile per-packet one-way delay: 54.786 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 164.36 Mbit/s
95th percentile per-packet one-way delay: 54.786 ms
Loss rate: 0.47%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-06-20 19:09:55

End at: 2018-06-20 19:10:25

Local clock offset: 0.105 ms

Remote clock offset: 0.173 ms

Below is generated by plot.py at 2018-06-20 20:33:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.63 Mbit/s

95th percentile per-packet one-way delay: 58.511 ms

Loss rate: 0.37%

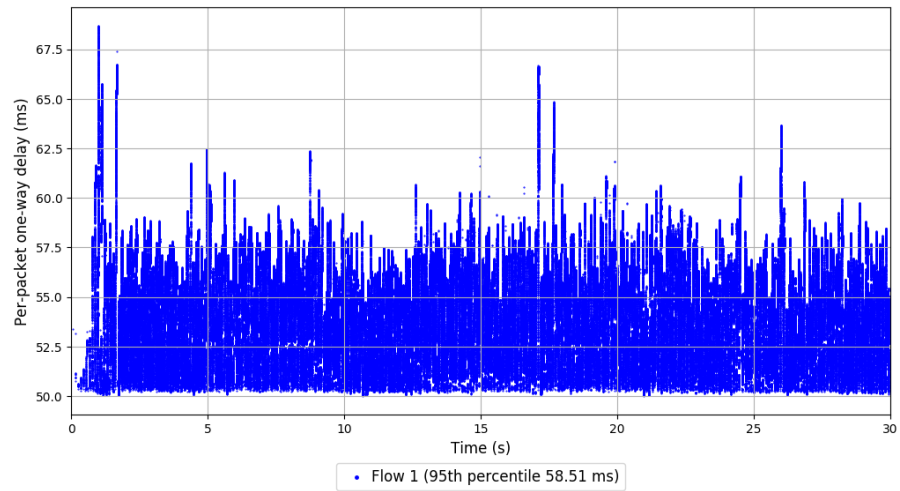
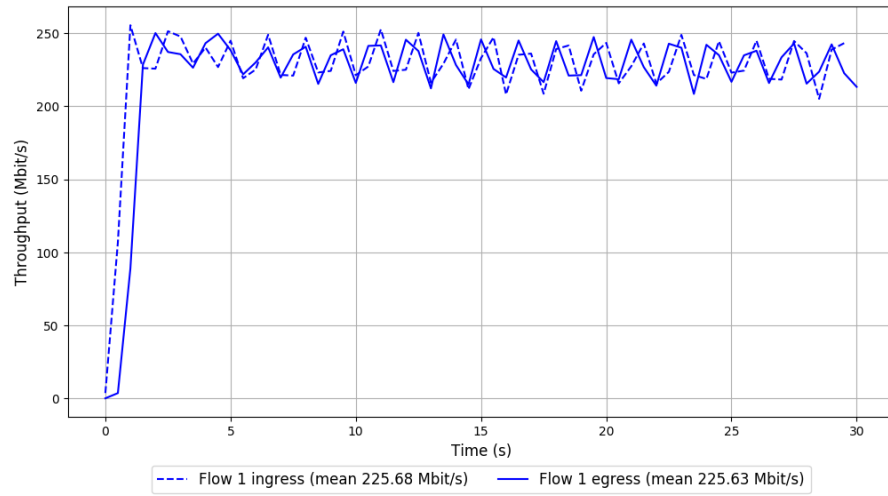
-- Flow 1:

Average throughput: 225.63 Mbit/s

95th percentile per-packet one-way delay: 58.511 ms

Loss rate: 0.37%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-06-20 19:30:43

End at: 2018-06-20 19:31:13

Local clock offset: 0.005 ms

Remote clock offset: 0.071 ms

Below is generated by plot.py at 2018-06-20 20:33:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.48 Mbit/s

95th percentile per-packet one-way delay: 61.609 ms

Loss rate: 0.38%

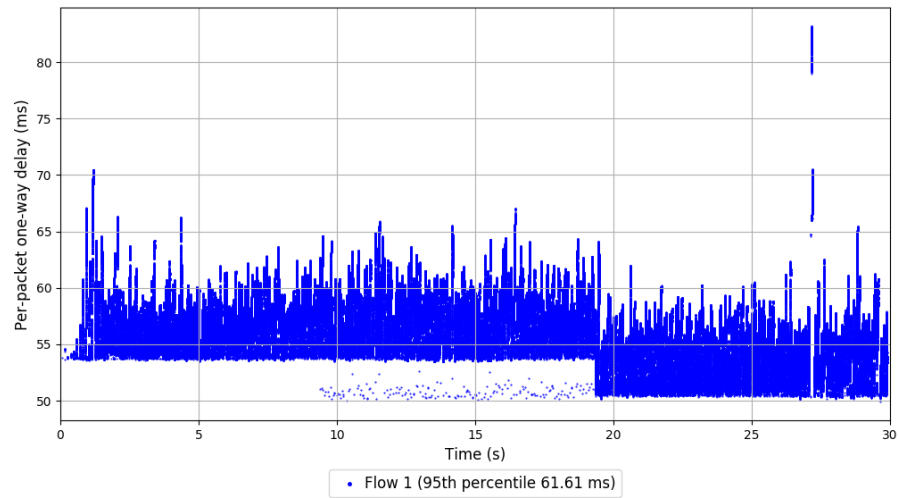
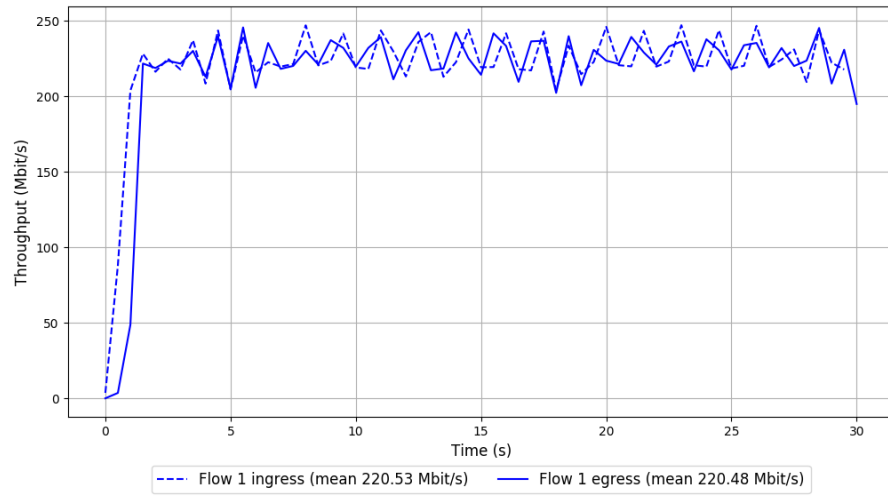
-- Flow 1:

Average throughput: 220.48 Mbit/s

95th percentile per-packet one-way delay: 61.609 ms

Loss rate: 0.38%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-06-20 19:51:15

End at: 2018-06-20 19:51:45

Local clock offset: 0.074 ms

Remote clock offset: -0.152 ms

Below is generated by plot.py at 2018-06-20 20:34:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.17 Mbit/s

95th percentile per-packet one-way delay: 62.063 ms

Loss rate: 0.40%

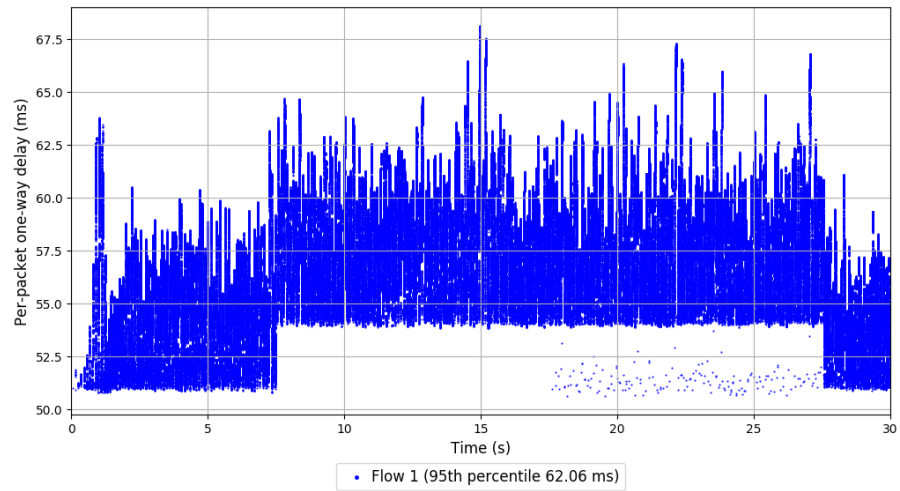
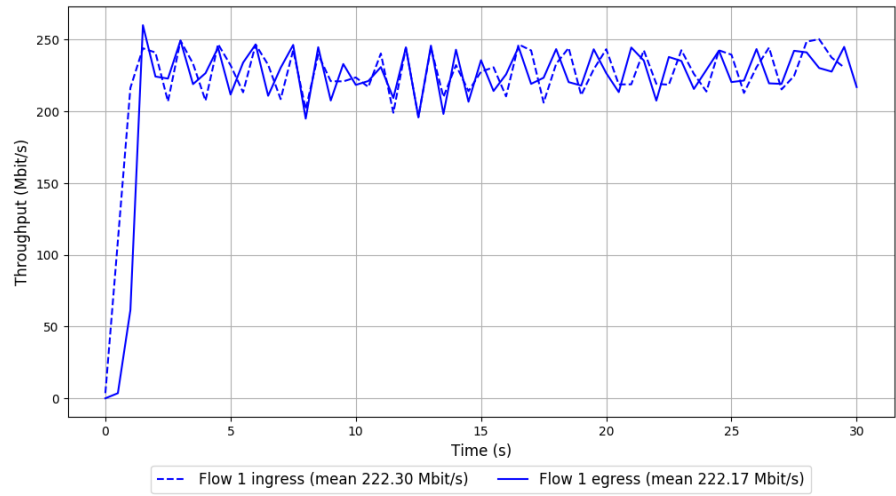
-- Flow 1:

Average throughput: 222.17 Mbit/s

95th percentile per-packet one-way delay: 62.063 ms

Loss rate: 0.40%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-06-20 16:42:52

End at: 2018-06-20 16:43:22

Local clock offset: -0.159 ms

Remote clock offset: 0.217 ms

Below is generated by plot.py at 2018-06-20 20:48:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 754.29 Mbit/s

95th percentile per-packet one-way delay: 129.888 ms

Loss rate: 4.63%

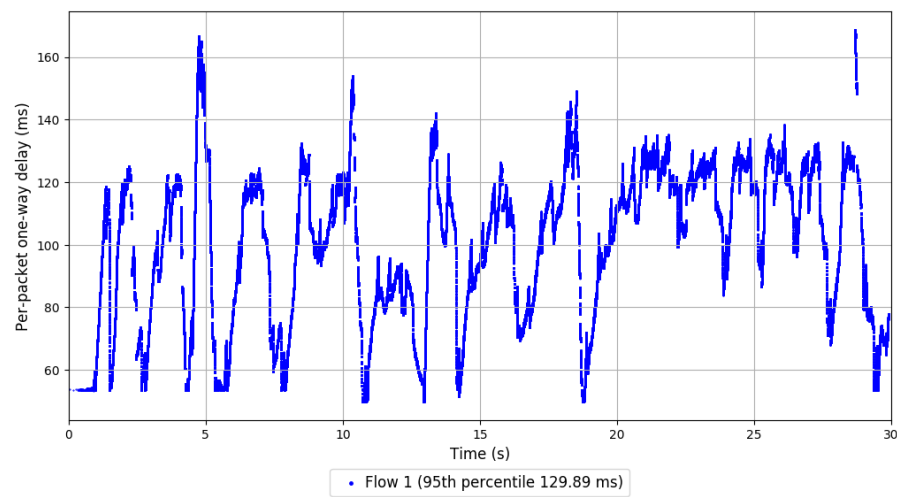
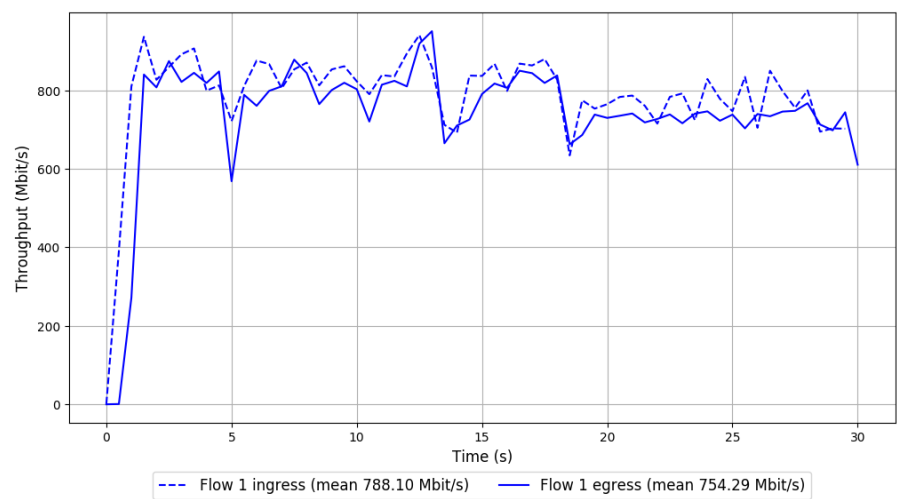
-- Flow 1:

Average throughput: 754.29 Mbit/s

95th percentile per-packet one-way delay: 129.888 ms

Loss rate: 4.63%

Run 1: Report of FillP — Data Link

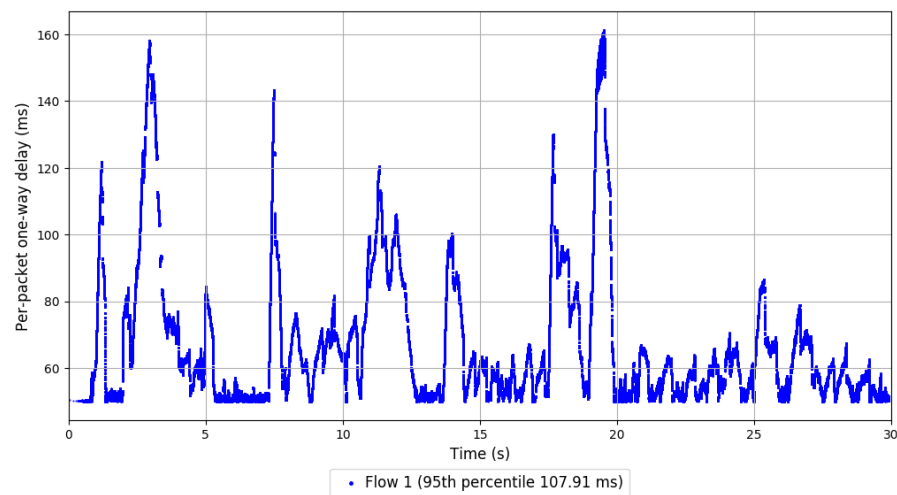
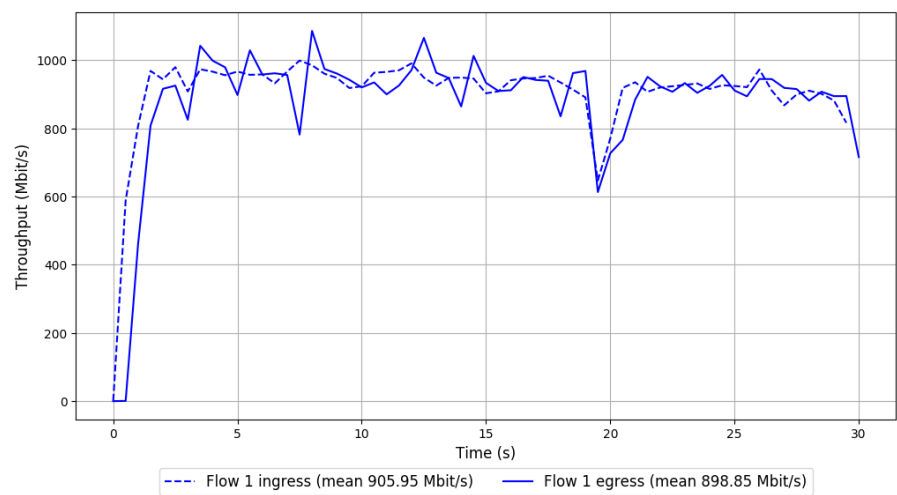


Run 2: Statistics of FillP

Start at: 2018-06-20 17:03:27
End at: 2018-06-20 17:03:57
Local clock offset: -0.208 ms
Remote clock offset: -0.122 ms

Below is generated by plot.py at 2018-06-20 20:50:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 898.85 Mbit/s
95th percentile per-packet one-way delay: 107.907 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 898.85 Mbit/s
95th percentile per-packet one-way delay: 107.907 ms
Loss rate: 1.12%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-06-20 17:24:07

End at: 2018-06-20 17:24:37

Local clock offset: 0.017 ms

Remote clock offset: 0.149 ms

Below is generated by plot.py at 2018-06-20 20:50:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 796.95 Mbit/s

95th percentile per-packet one-way delay: 128.513 ms

Loss rate: 4.10%

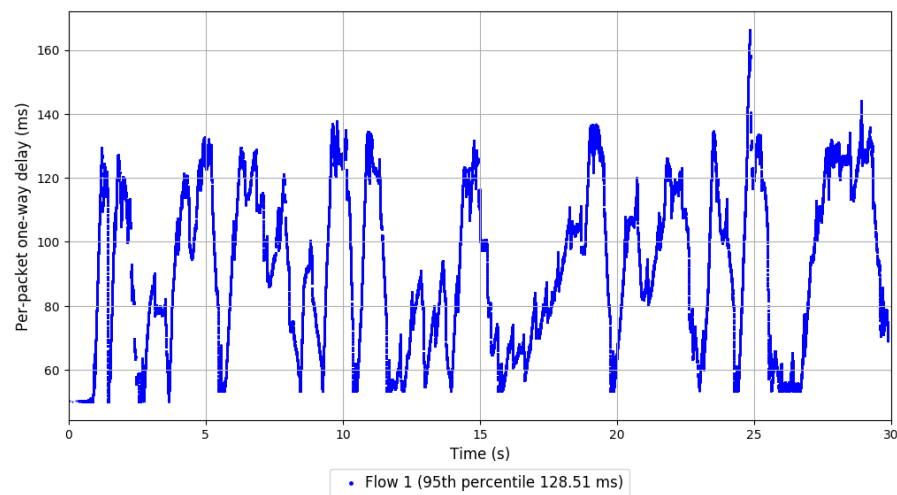
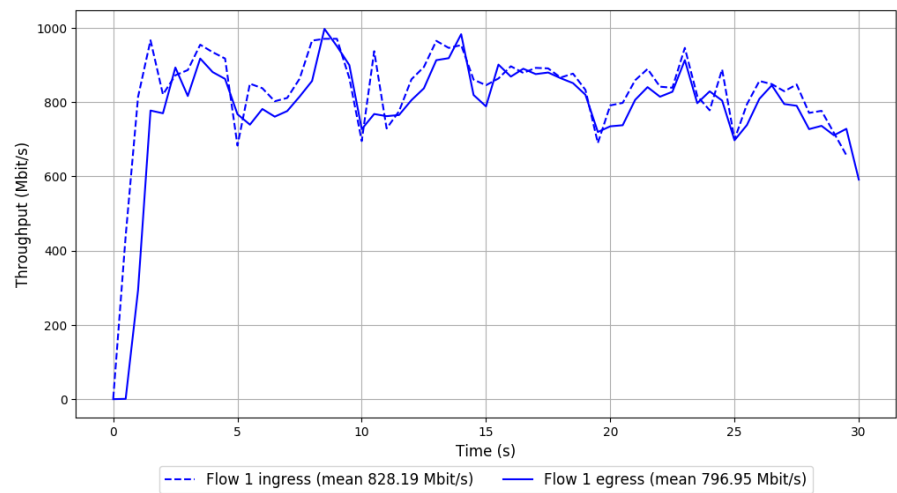
-- Flow 1:

Average throughput: 796.95 Mbit/s

95th percentile per-packet one-way delay: 128.513 ms

Loss rate: 4.10%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-06-20 17:44:58

End at: 2018-06-20 17:45:28

Local clock offset: -0.061 ms

Remote clock offset: 0.199 ms

Below is generated by plot.py at 2018-06-20 20:50:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 777.66 Mbit/s

95th percentile per-packet one-way delay: 270.828 ms

Loss rate: 3.88%

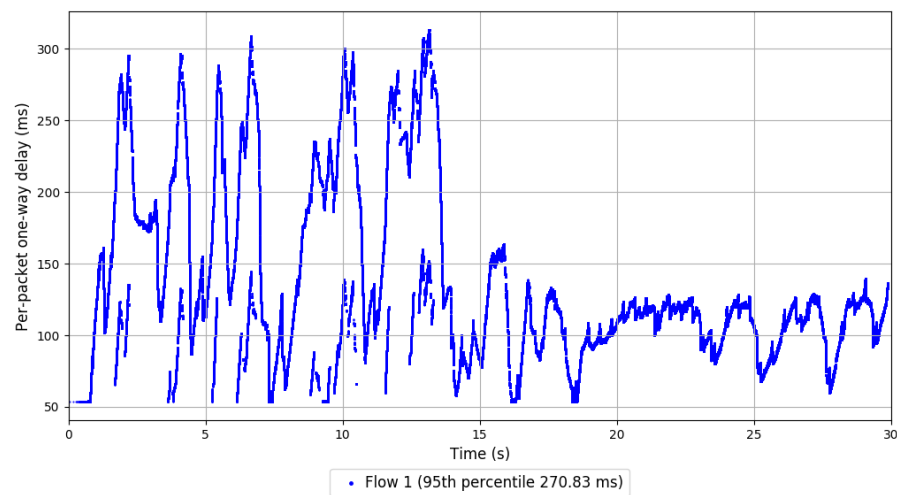
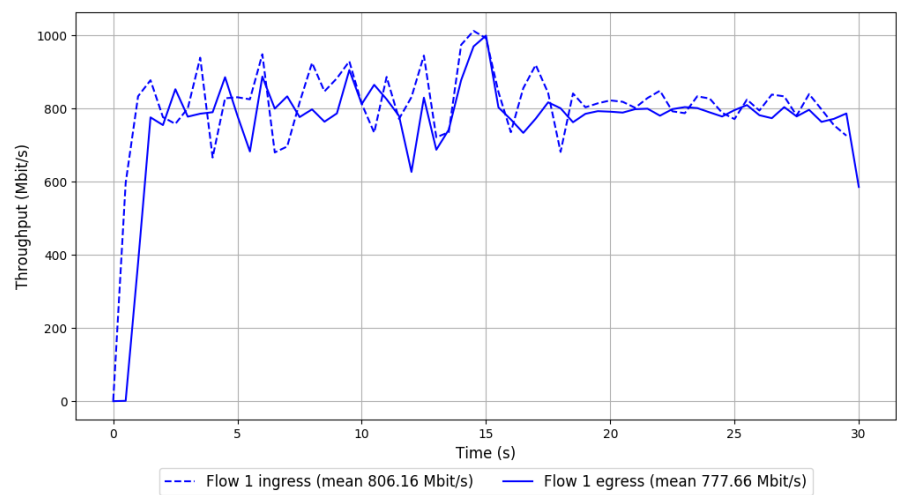
-- Flow 1:

Average throughput: 777.66 Mbit/s

95th percentile per-packet one-way delay: 270.828 ms

Loss rate: 3.88%

Run 4: Report of FillP — Data Link

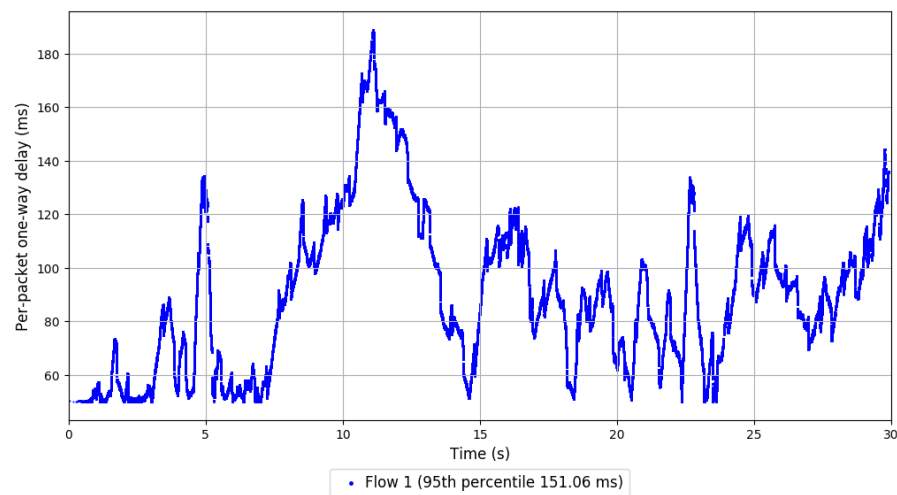
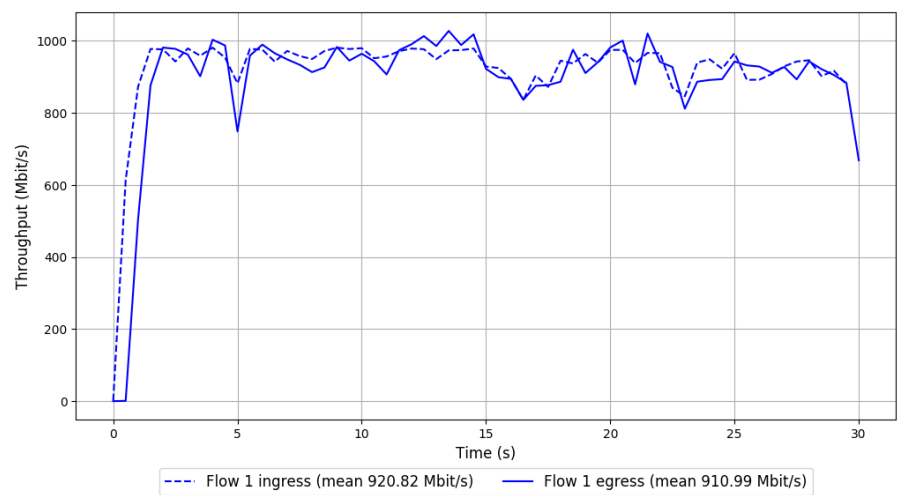


Run 5: Statistics of FillP

Start at: 2018-06-20 18:05:14
End at: 2018-06-20 18:05:44
Local clock offset: -0.056 ms
Remote clock offset: -0.063 ms

Below is generated by plot.py at 2018-06-20 20:52:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 910.99 Mbit/s
95th percentile per-packet one-way delay: 151.062 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 910.99 Mbit/s
95th percentile per-packet one-way delay: 151.062 ms
Loss rate: 1.40%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-06-20 18:25:49

End at: 2018-06-20 18:26:19

Local clock offset: -0.032 ms

Remote clock offset: 0.203 ms

Below is generated by plot.py at 2018-06-20 20:52:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 864.89 Mbit/s

95th percentile per-packet one-way delay: 119.873 ms

Loss rate: 2.81%

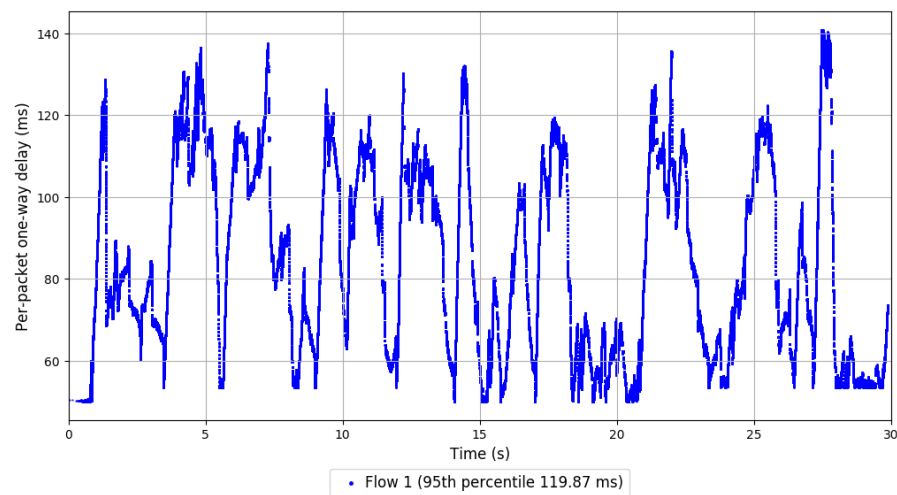
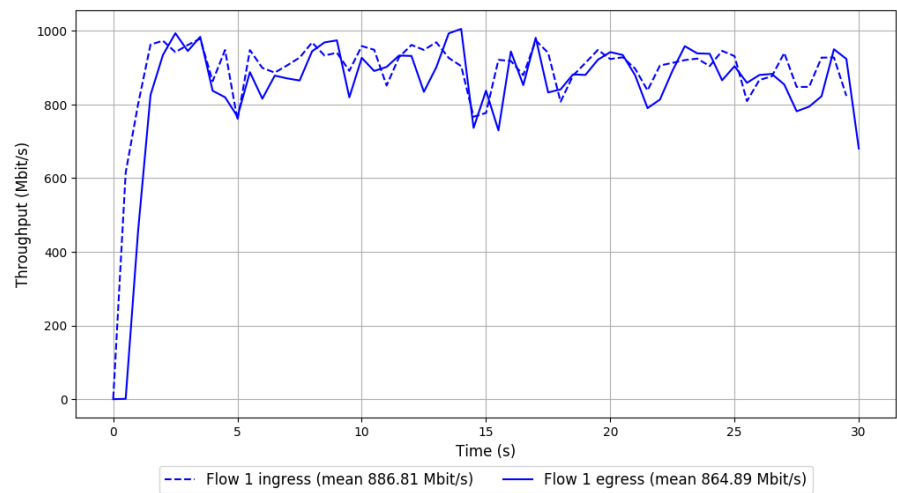
-- Flow 1:

Average throughput: 864.89 Mbit/s

95th percentile per-packet one-way delay: 119.873 ms

Loss rate: 2.81%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-06-20 18:46:23

End at: 2018-06-20 18:46:53

Local clock offset: -0.147 ms

Remote clock offset: 0.013 ms

Below is generated by plot.py at 2018-06-20 20:52:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 810.06 Mbit/s

95th percentile per-packet one-way delay: 127.629 ms

Loss rate: 4.00%

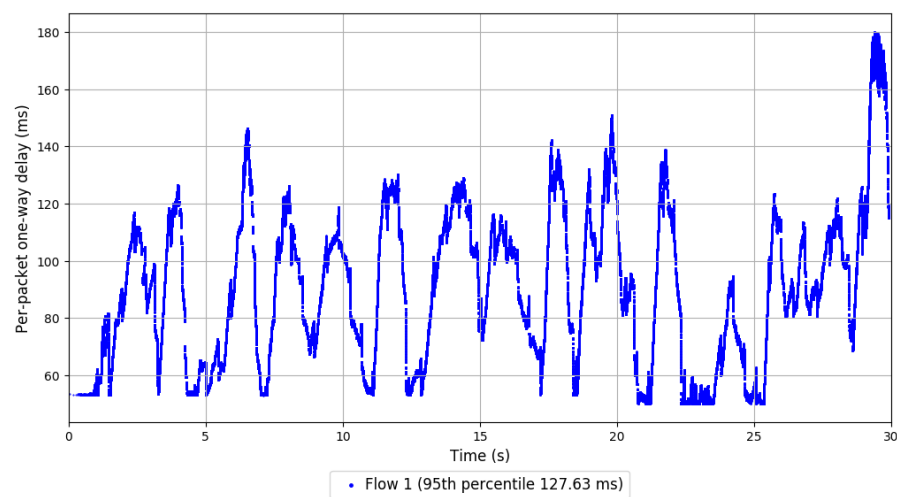
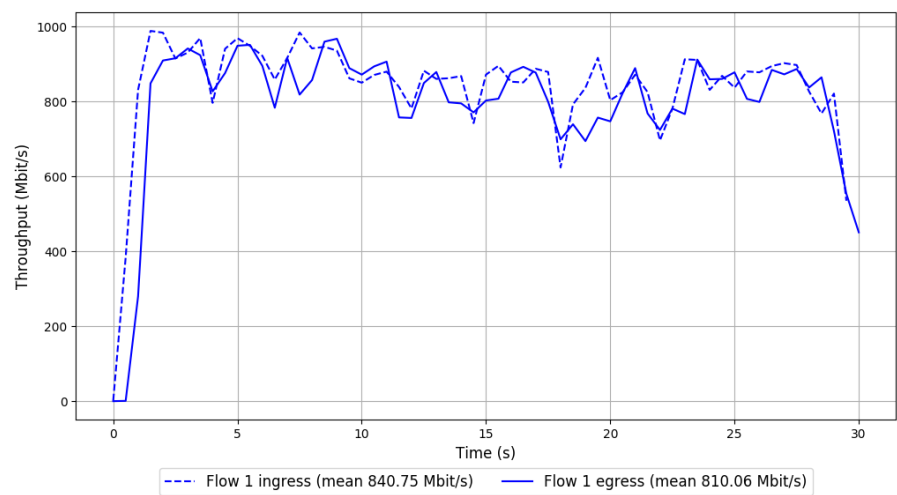
-- Flow 1:

Average throughput: 810.06 Mbit/s

95th percentile per-packet one-way delay: 127.629 ms

Loss rate: 4.00%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-06-20 19:06:59

End at: 2018-06-20 19:07:29

Local clock offset: -0.017 ms

Remote clock offset: 0.05 ms

Below is generated by plot.py at 2018-06-20 20:53:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 846.89 Mbit/s

95th percentile per-packet one-way delay: 127.423 ms

Loss rate: 3.06%

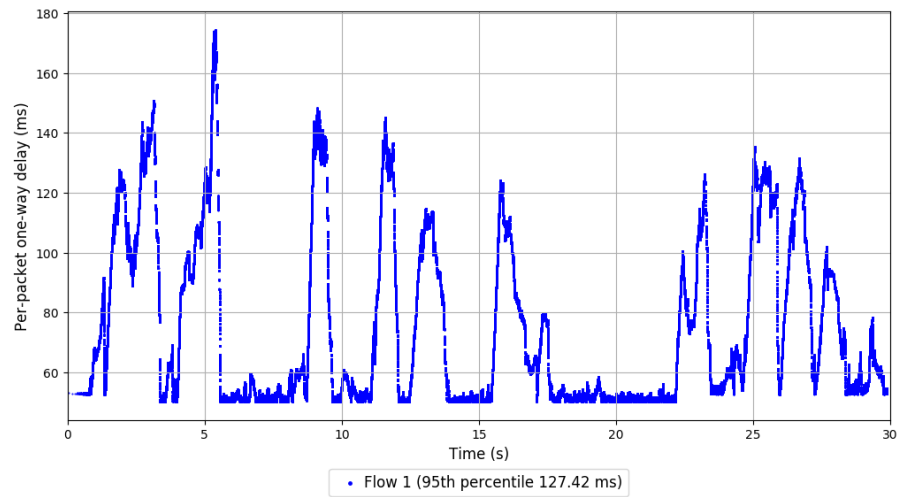
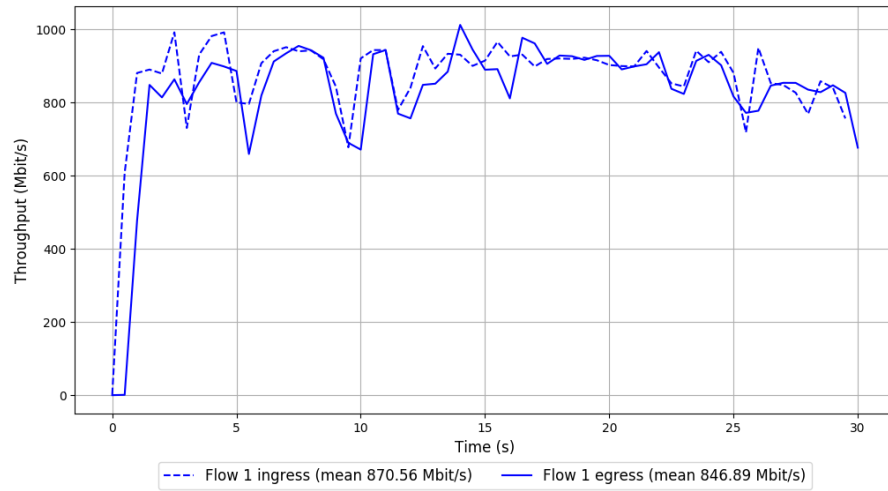
-- Flow 1:

Average throughput: 846.89 Mbit/s

95th percentile per-packet one-way delay: 127.423 ms

Loss rate: 3.06%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-06-20 19:27:50

End at: 2018-06-20 19:28:20

Local clock offset: 0.009 ms

Remote clock offset: 1.241 ms

Below is generated by plot.py at 2018-06-20 21:05:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 793.19 Mbit/s

95th percentile per-packet one-way delay: 128.534 ms

Loss rate: 4.57%

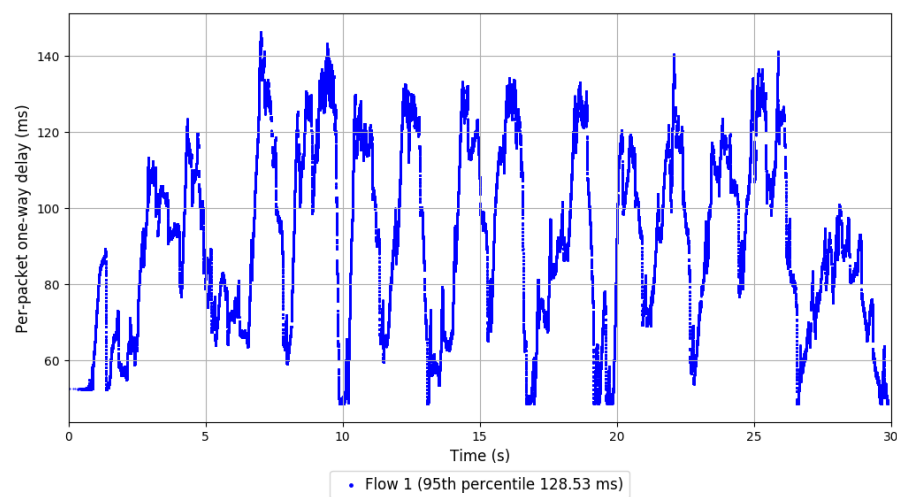
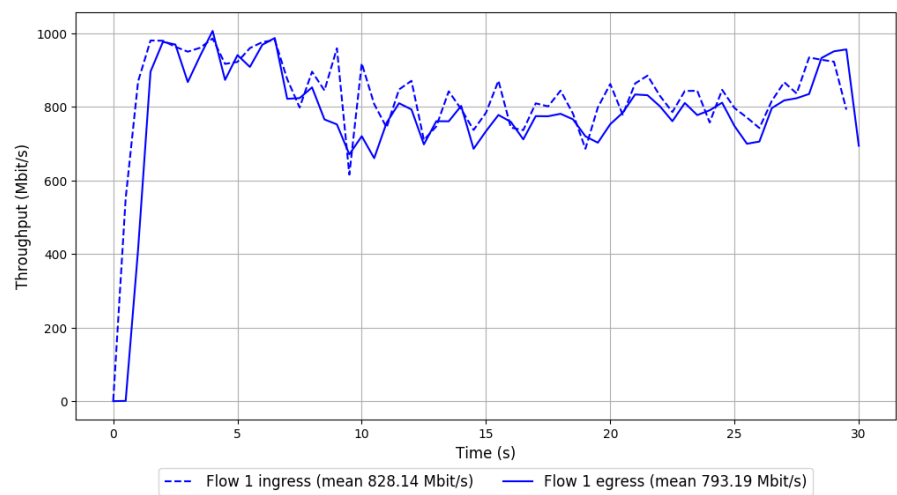
-- Flow 1:

Average throughput: 793.19 Mbit/s

95th percentile per-packet one-way delay: 128.534 ms

Loss rate: 4.57%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-06-20 19:48:27

End at: 2018-06-20 19:48:58

Local clock offset: 0.278 ms

Remote clock offset: 0.114 ms

Below is generated by plot.py at 2018-06-20 21:07:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 863.79 Mbit/s

95th percentile per-packet one-way delay: 118.630 ms

Loss rate: 2.50%

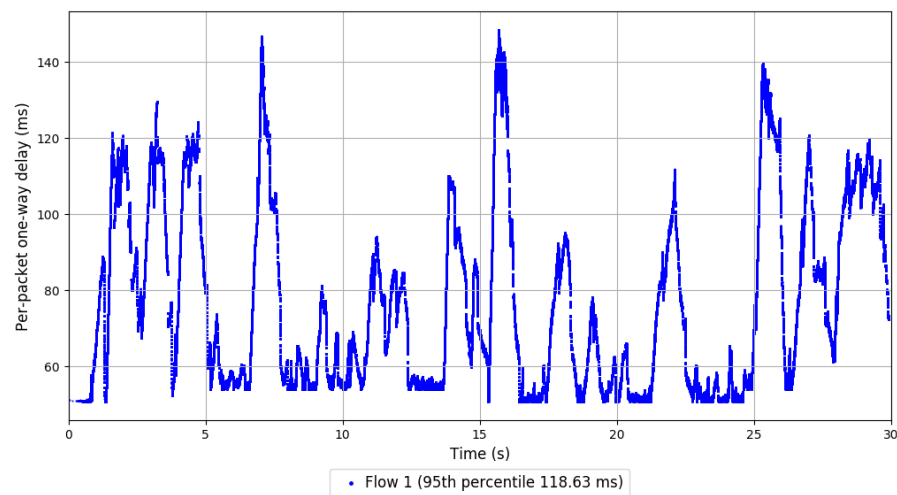
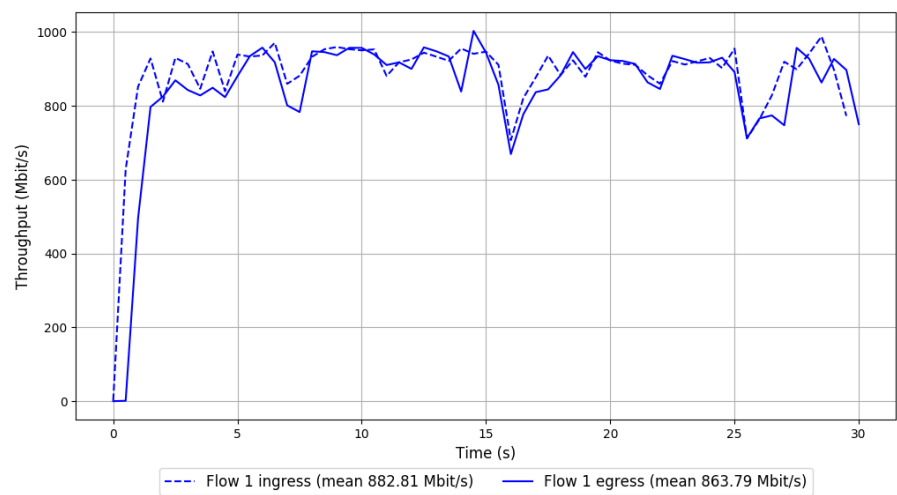
-- Flow 1:

Average throughput: 863.79 Mbit/s

95th percentile per-packet one-way delay: 118.630 ms

Loss rate: 2.50%

Run 10: Report of FillP — Data Link

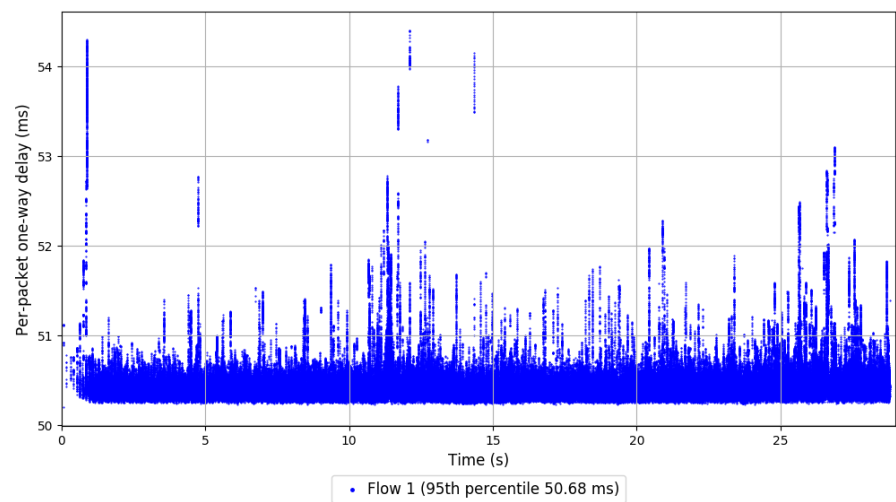
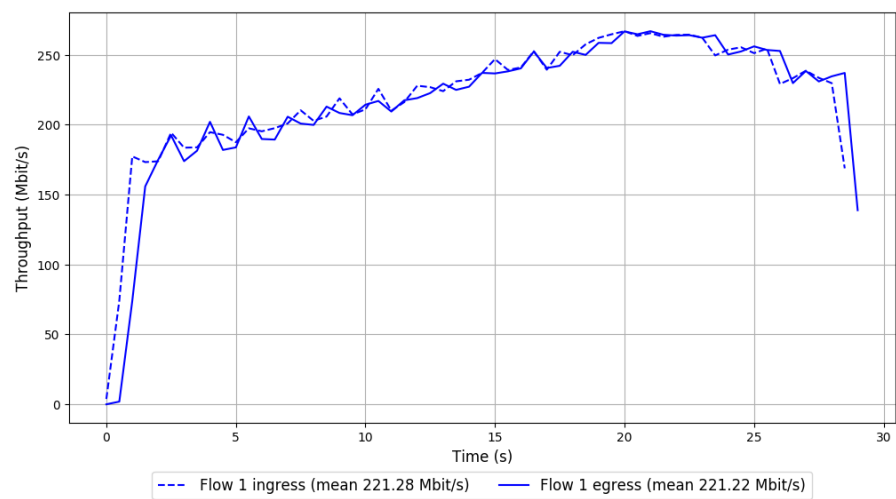


Run 1: Statistics of Indigo

Start at: 2018-06-20 16:49:49
End at: 2018-06-20 16:50:19
Local clock offset: -0.087 ms
Remote clock offset: -0.166 ms

Below is generated by plot.py at 2018-06-20 21:07:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 221.22 Mbit/s
95th percentile per-packet one-way delay: 50.679 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 221.22 Mbit/s
95th percentile per-packet one-way delay: 50.679 ms
Loss rate: 0.38%

Run 1: Report of Indigo — Data Link

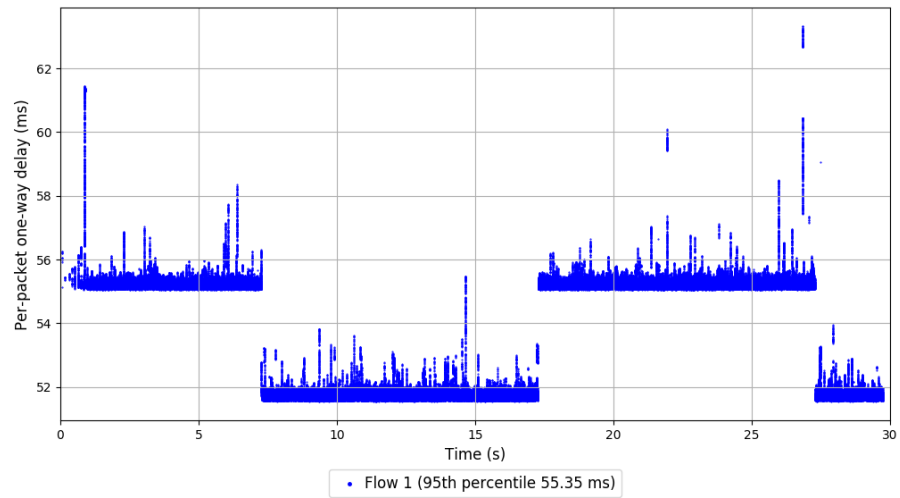
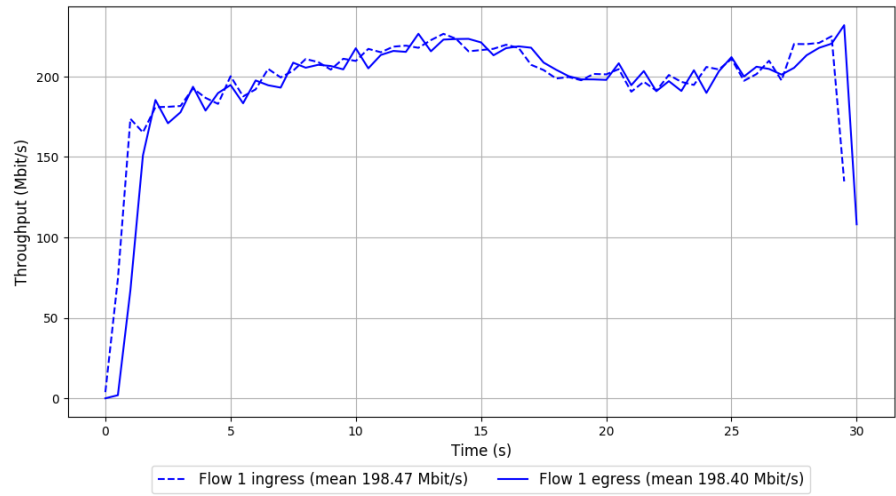


Run 2: Statistics of Indigo

Start at: 2018-06-20 17:10:15
End at: 2018-06-20 17:10:45
Local clock offset: -0.01 ms
Remote clock offset: -1.498 ms

Below is generated by plot.py at 2018-06-20 21:07:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 198.40 Mbit/s
95th percentile per-packet one-way delay: 55.355 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 198.40 Mbit/s
95th percentile per-packet one-way delay: 55.355 ms
Loss rate: 0.40%

Run 2: Report of Indigo — Data Link

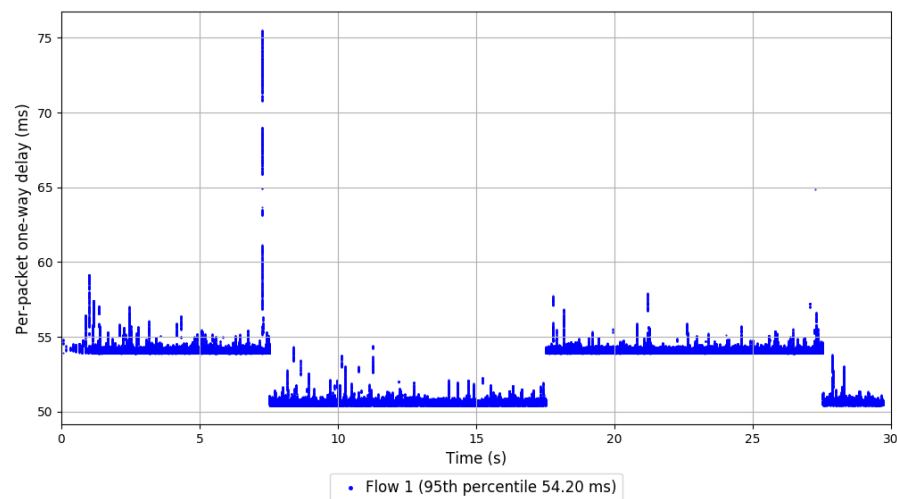
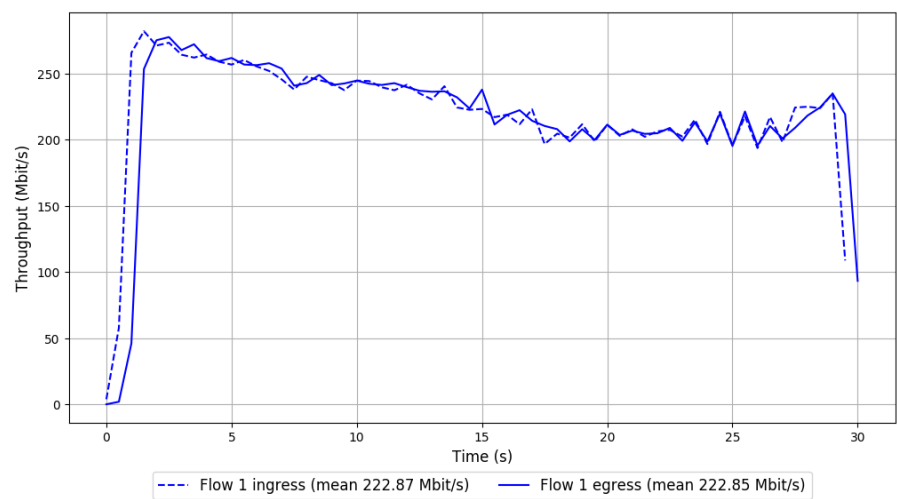


Run 3: Statistics of Indigo

Start at: 2018-06-20 17:31:04
End at: 2018-06-20 17:31:34
Local clock offset: 0.118 ms
Remote clock offset: -0.044 ms

Below is generated by plot.py at 2018-06-20 21:07:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 222.85 Mbit/s
95th percentile per-packet one-way delay: 54.196 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 222.85 Mbit/s
95th percentile per-packet one-way delay: 54.196 ms
Loss rate: 0.36%

Run 3: Report of Indigo — Data Link

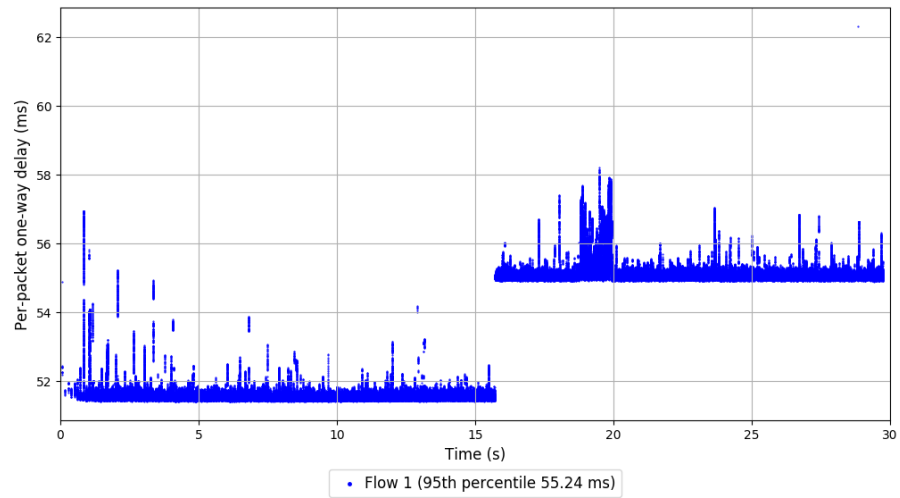
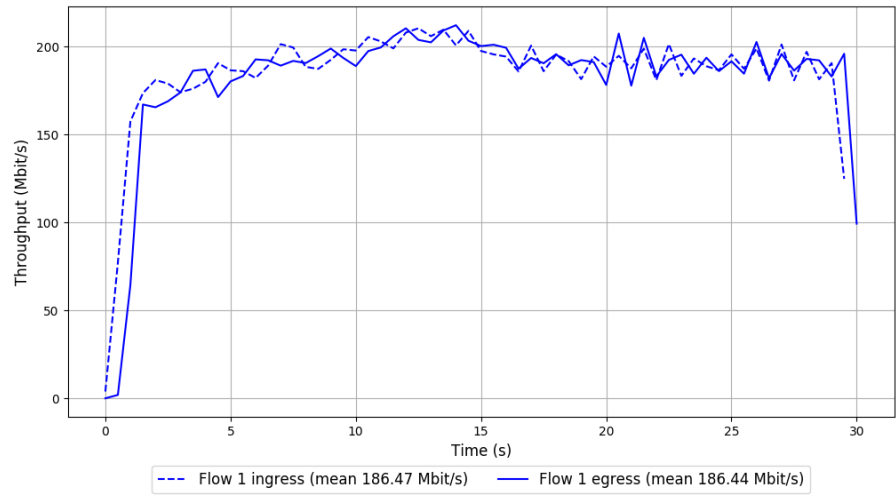


Run 4: Statistics of Indigo

Start at: 2018-06-20 17:51:36
End at: 2018-06-20 17:52:06
Local clock offset: -0.054 ms
Remote clock offset: -1.139 ms

Below is generated by plot.py at 2018-06-20 21:07:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 186.44 Mbit/s
95th percentile per-packet one-way delay: 55.240 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 186.44 Mbit/s
95th percentile per-packet one-way delay: 55.240 ms
Loss rate: 0.37%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-06-20 18:11:59

End at: 2018-06-20 18:12:29

Local clock offset: -0.007 ms

Remote clock offset: 1.361 ms

Below is generated by plot.py at 2018-06-20 21:07:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.29 Mbit/s

95th percentile per-packet one-way delay: 52.688 ms

Loss rate: 0.35%

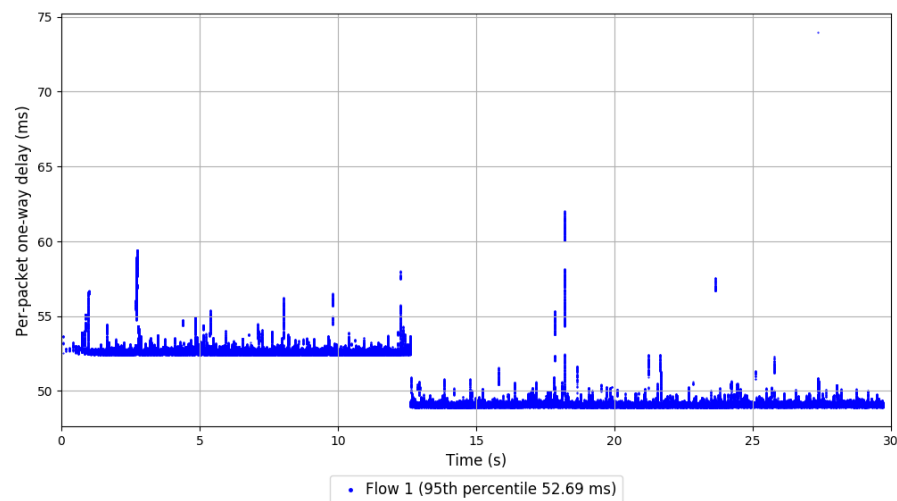
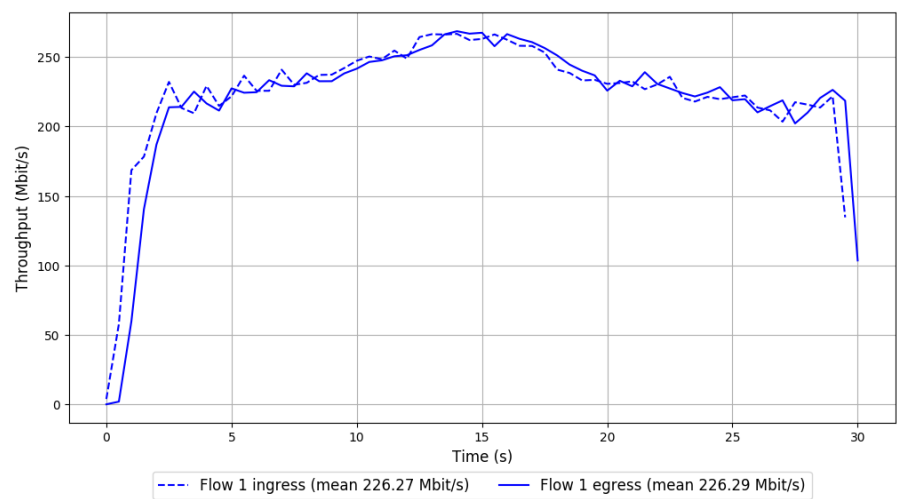
-- Flow 1:

Average throughput: 226.29 Mbit/s

95th percentile per-packet one-way delay: 52.688 ms

Loss rate: 0.35%

Run 5: Report of Indigo — Data Link

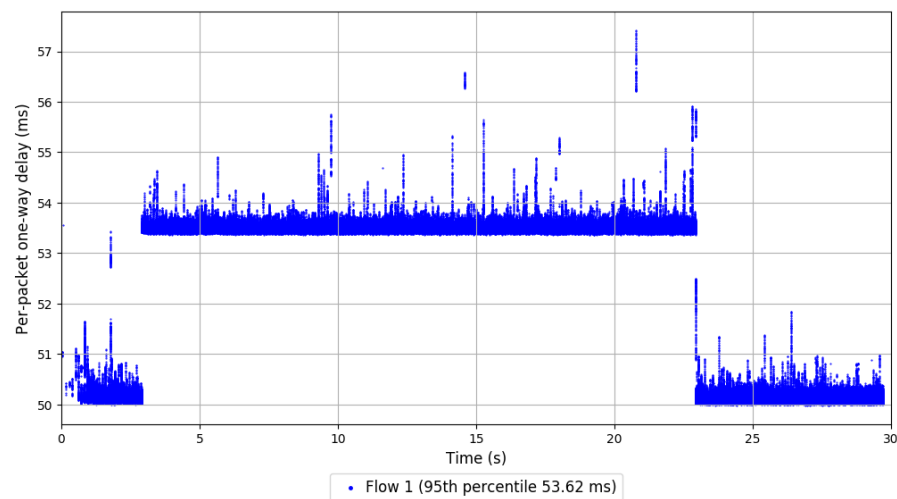
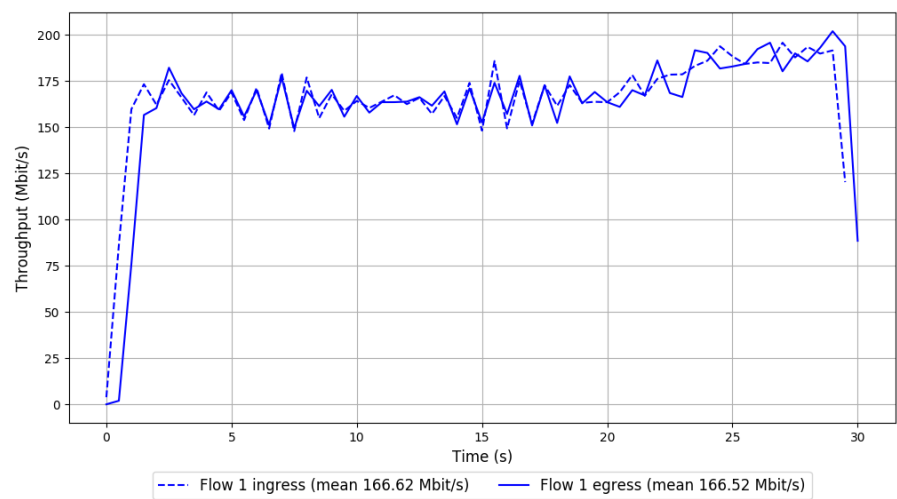


Run 6: Statistics of Indigo

Start at: 2018-06-20 18:32:49
End at: 2018-06-20 18:33:19
Local clock offset: -0.195 ms
Remote clock offset: -0.063 ms

Below is generated by plot.py at 2018-06-20 21:07:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 166.52 Mbit/s
95th percentile per-packet one-way delay: 53.620 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 166.52 Mbit/s
95th percentile per-packet one-way delay: 53.620 ms
Loss rate: 0.41%

Run 6: Report of Indigo — Data Link

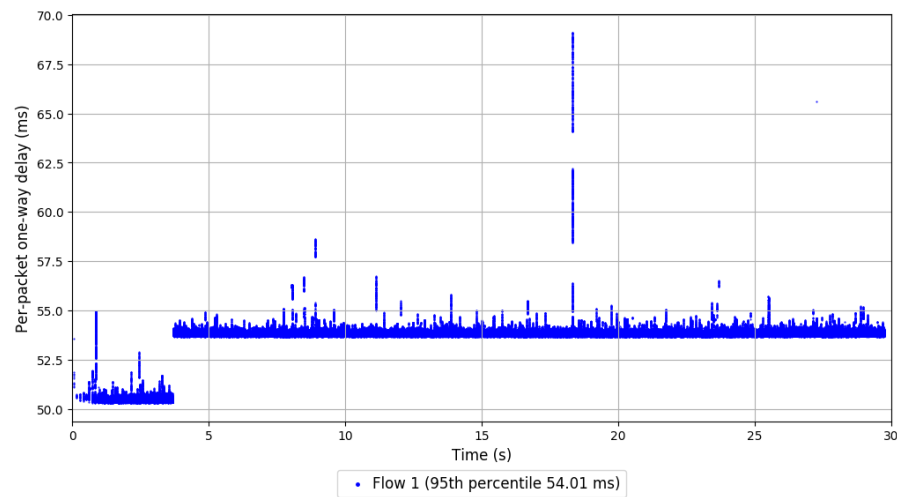
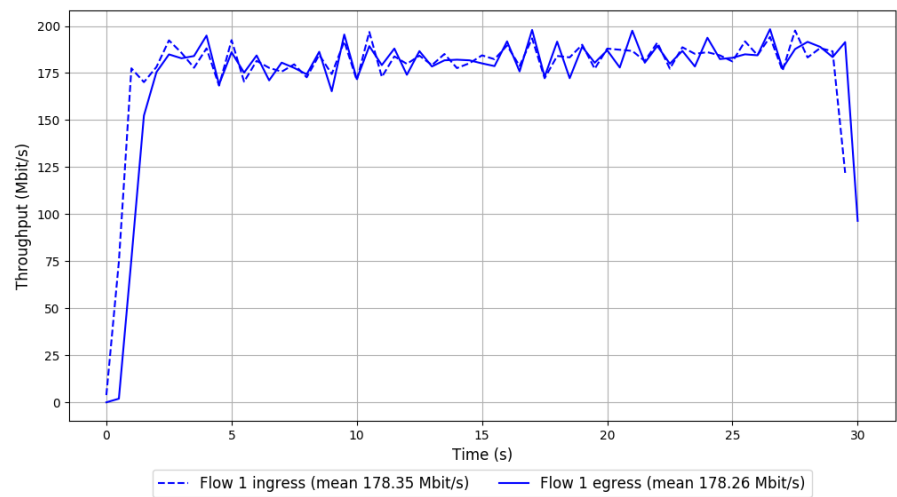


Run 7: Statistics of Indigo

Start at: 2018-06-20 18:52:58
End at: 2018-06-20 18:53:28
Local clock offset: 0.053 ms
Remote clock offset: -0.274 ms

Below is generated by plot.py at 2018-06-20 21:07:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 178.26 Mbit/s
95th percentile per-packet one-way delay: 54.009 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 178.26 Mbit/s
95th percentile per-packet one-way delay: 54.009 ms
Loss rate: 0.40%

Run 7: Report of Indigo — Data Link

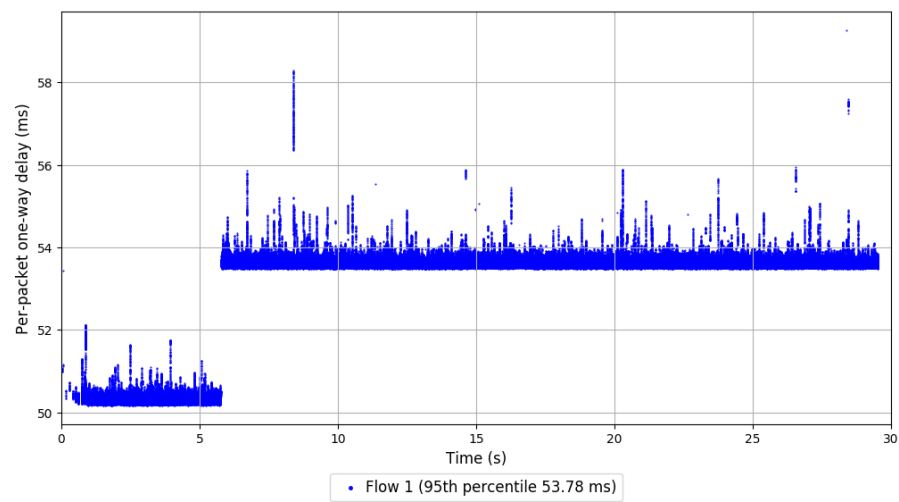
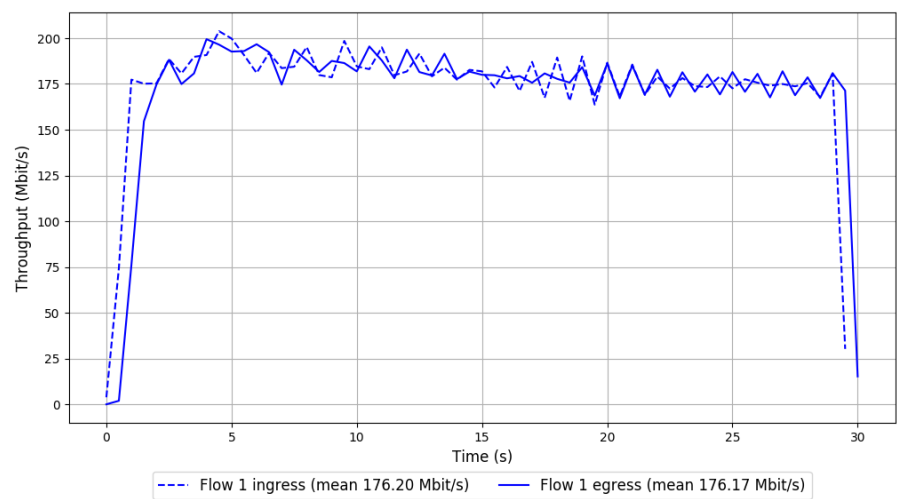


Run 8: Statistics of Indigo

Start at: 2018-06-20 19:13:46
End at: 2018-06-20 19:14:16
Local clock offset: -0.064 ms
Remote clock offset: -0.141 ms

Below is generated by plot.py at 2018-06-20 21:07:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 176.17 Mbit/s
95th percentile per-packet one-way delay: 53.777 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 176.17 Mbit/s
95th percentile per-packet one-way delay: 53.777 ms
Loss rate: 0.36%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-06-20 19:34:35

End at: 2018-06-20 19:35:05

Local clock offset: -0.084 ms

Remote clock offset: 1.267 ms

Below is generated by plot.py at 2018-06-20 21:07:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.36 Mbit/s

95th percentile per-packet one-way delay: 52.309 ms

Loss rate: 0.33%

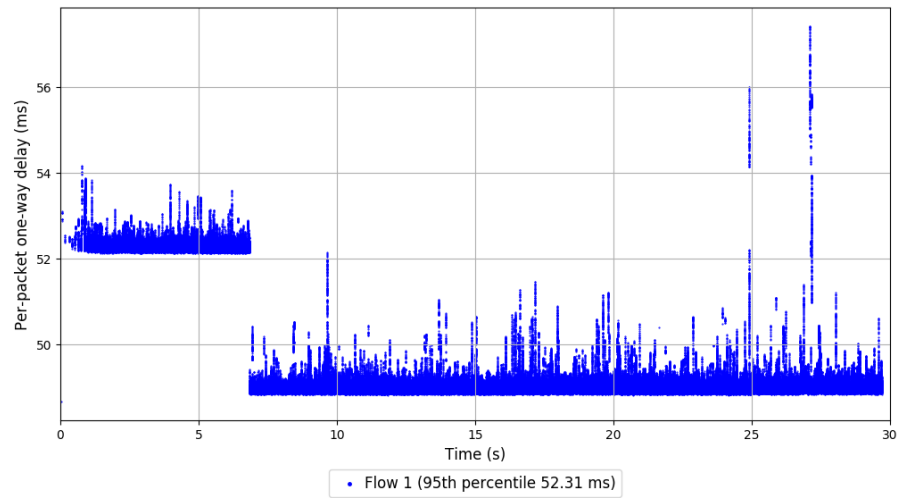
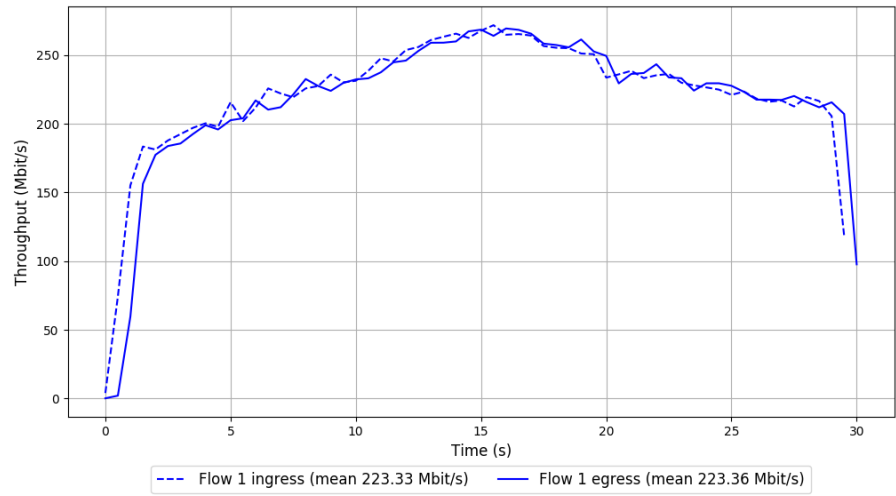
-- Flow 1:

Average throughput: 223.36 Mbit/s

95th percentile per-packet one-way delay: 52.309 ms

Loss rate: 0.33%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-06-20 19:55:07

End at: 2018-06-20 19:55:37

Local clock offset: -0.161 ms

Remote clock offset: 0.099 ms

Below is generated by plot.py at 2018-06-20 21:07:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.90 Mbit/s

95th percentile per-packet one-way delay: 53.640 ms

Loss rate: 0.43%

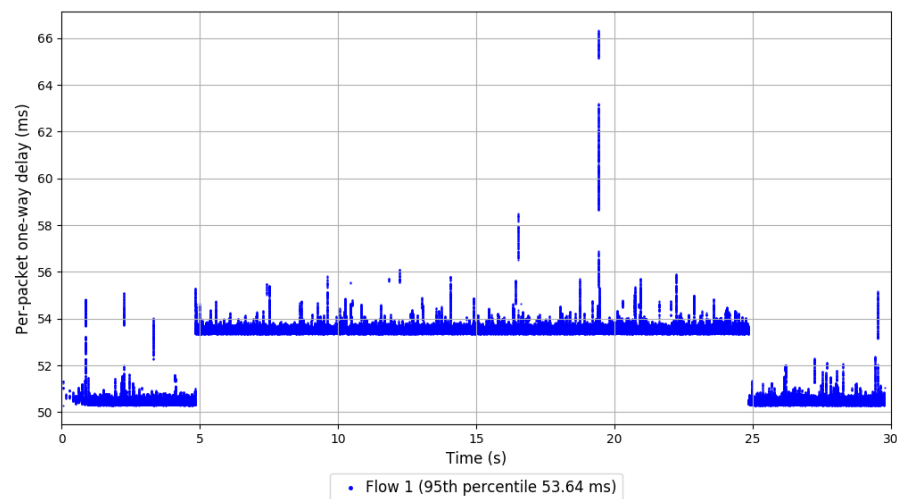
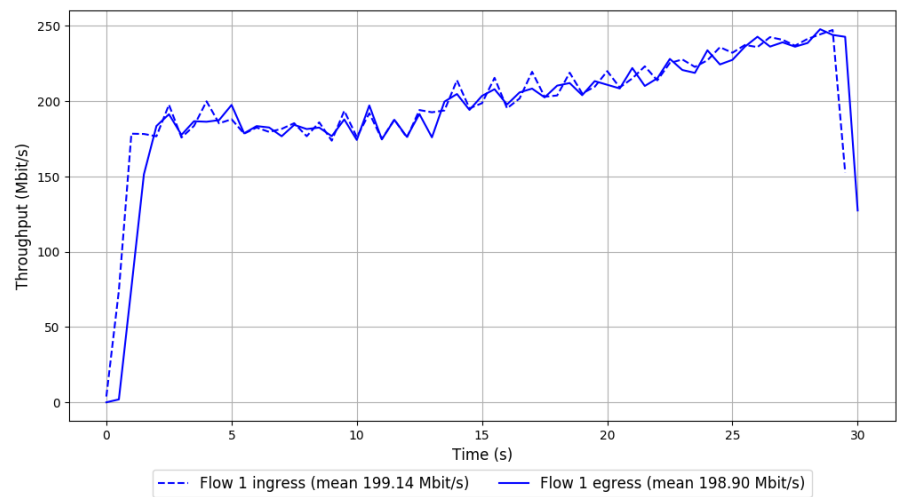
-- Flow 1:

Average throughput: 198.90 Mbit/s

95th percentile per-packet one-way delay: 53.640 ms

Loss rate: 0.43%

Run 10: Report of Indigo — Data Link

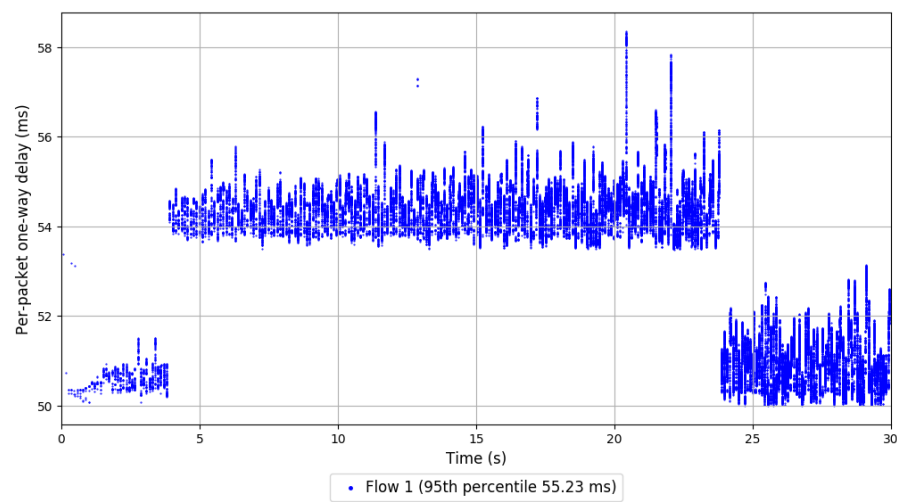
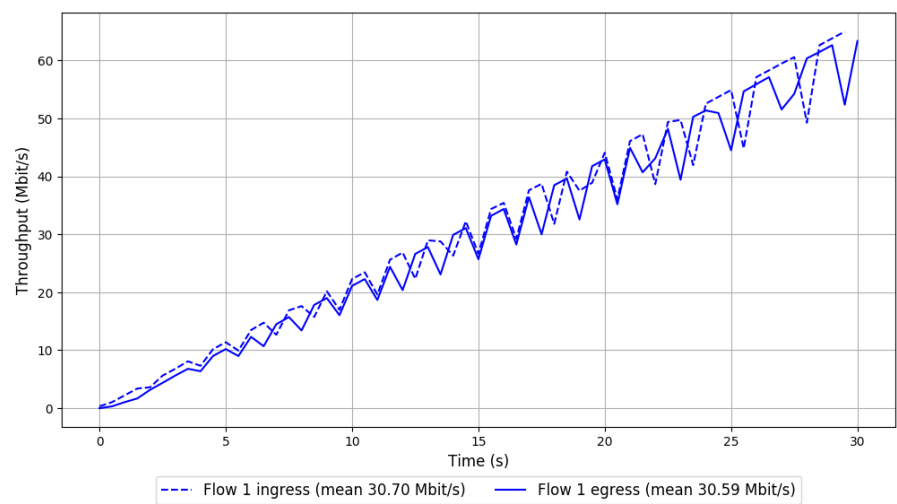


```
Run 1: Statistics of LEDBAT

Start at: 2018-06-20 16:40:38
End at: 2018-06-20 16:41:08
Local clock offset: -0.112 ms
Remote clock offset: 0.152 ms

# Below is generated by plot.py at 2018-06-20 21:07:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 30.59 Mbit/s
95th percentile per-packet one-way delay: 55.228 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 30.59 Mbit/s
95th percentile per-packet one-way delay: 55.228 ms
Loss rate: 0.71%
```

Run 1: Report of LEDBAT — Data Link

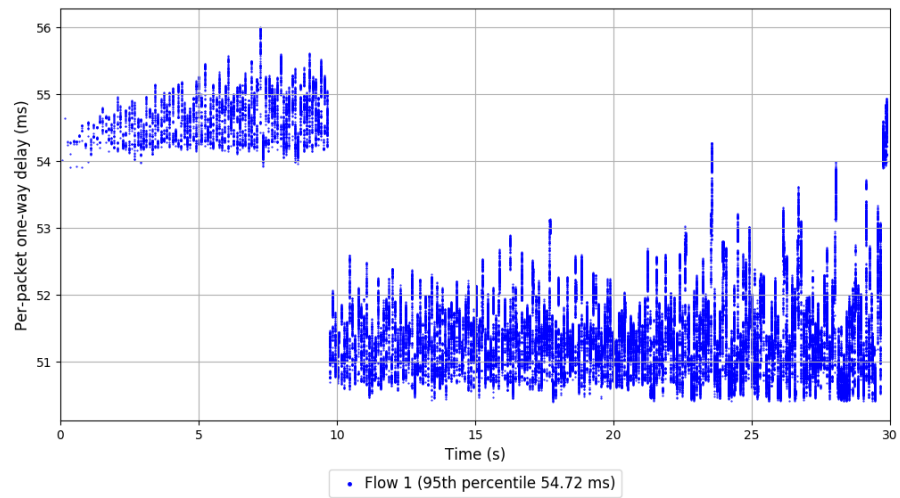
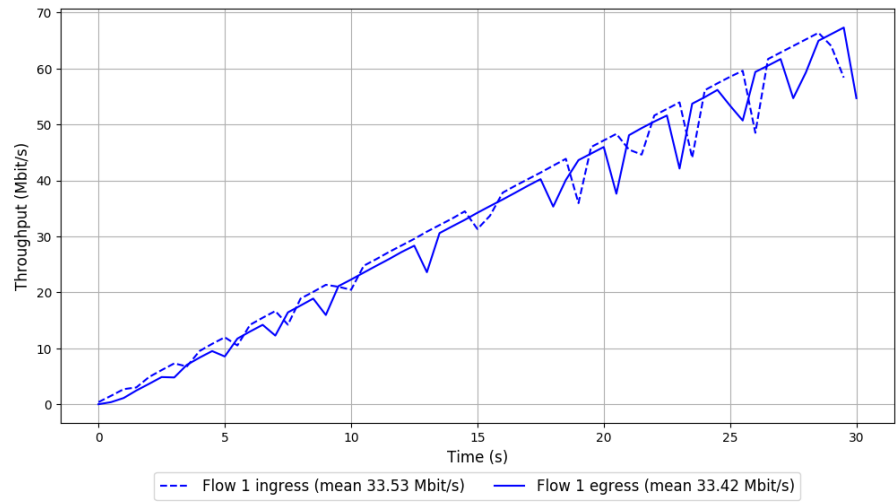


Run 2: Statistics of LEDBAT

Start at: 2018-06-20 17:01:12
End at: 2018-06-20 17:01:42
Local clock offset: 0.171 ms
Remote clock offset: -0.147 ms

Below is generated by plot.py at 2018-06-20 21:07:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 33.42 Mbit/s
95th percentile per-packet one-way delay: 54.721 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 33.42 Mbit/s
95th percentile per-packet one-way delay: 54.721 ms
Loss rate: 0.69%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-06-20 17:21:53

End at: 2018-06-20 17:22:23

Local clock offset: -0.146 ms

Remote clock offset: -0.23 ms

Below is generated by plot.py at 2018-06-20 21:07:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.06 Mbit/s

95th percentile per-packet one-way delay: 55.367 ms

Loss rate: 0.72%

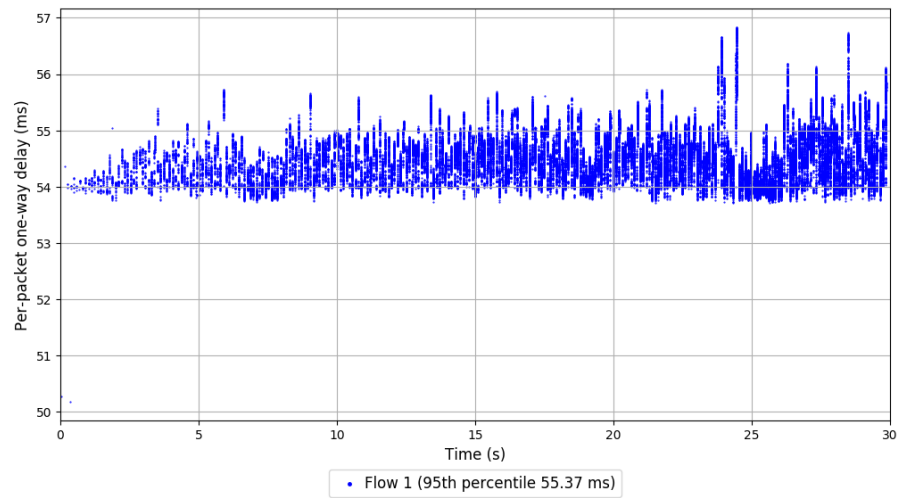
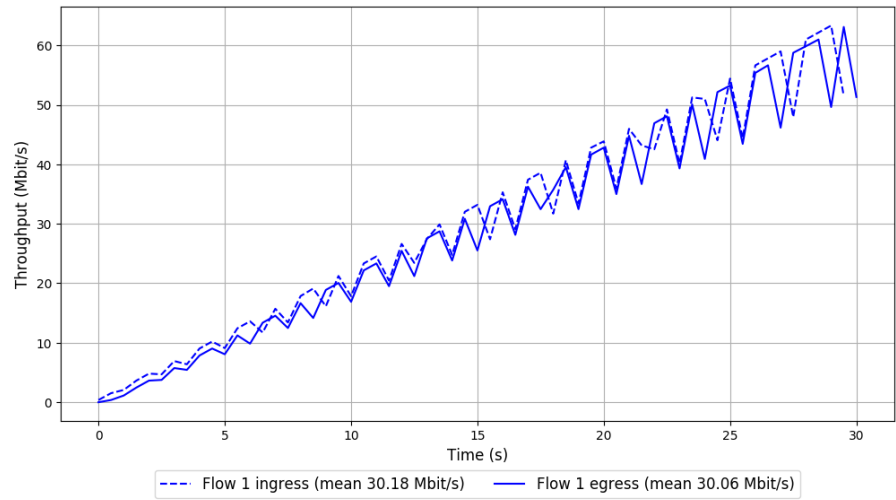
-- Flow 1:

Average throughput: 30.06 Mbit/s

95th percentile per-packet one-way delay: 55.367 ms

Loss rate: 0.72%

Run 3: Report of LEDBAT — Data Link

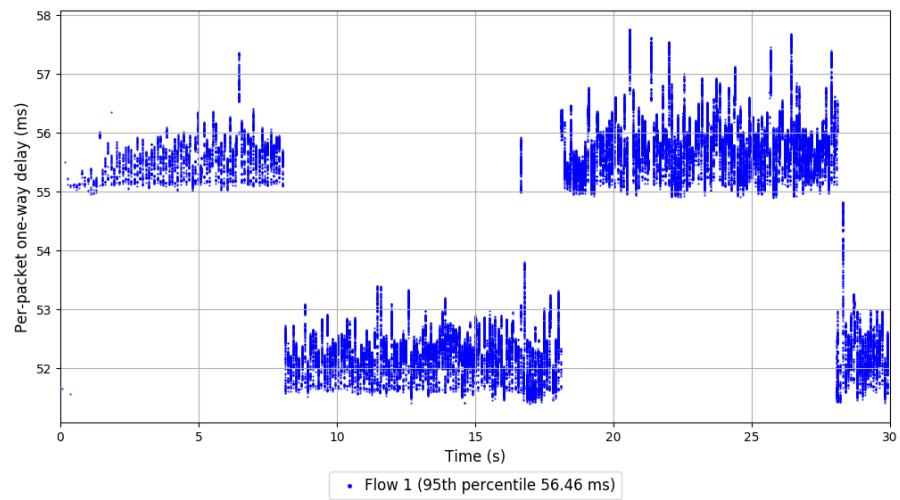
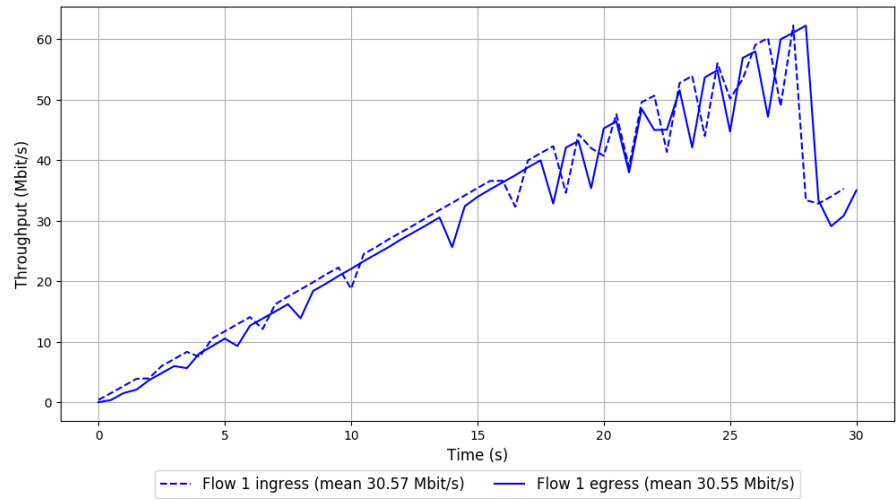


Run 4: Statistics of LEDBAT

Start at: 2018-06-20 17:42:44
End at: 2018-06-20 17:43:14
Local clock offset: -0.03 ms
Remote clock offset: -1.134 ms

Below is generated by plot.py at 2018-06-20 21:07:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 30.55 Mbit/s
95th percentile per-packet one-way delay: 56.460 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 30.55 Mbit/s
95th percentile per-packet one-way delay: 56.460 ms
Loss rate: 0.39%

Run 4: Report of LEDBAT — Data Link

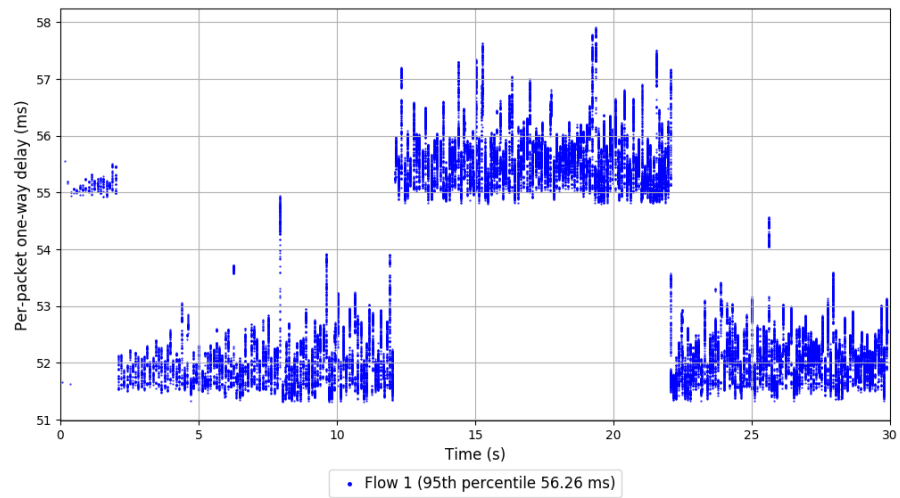
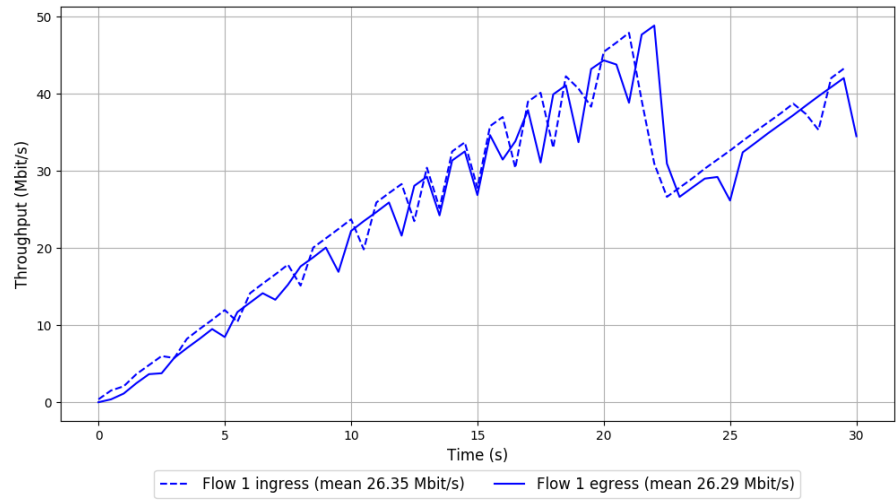


Run 5: Statistics of LEDBAT

Start at: 2018-06-20 18:03:00
End at: 2018-06-20 18:03:30
Local clock offset: 0.086 ms
Remote clock offset: -0.941 ms

Below is generated by plot.py at 2018-06-20 21:07:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 26.29 Mbit/s
95th percentile per-packet one-way delay: 56.259 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 26.29 Mbit/s
95th percentile per-packet one-way delay: 56.259 ms
Loss rate: 0.55%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-06-20 18:23:34

End at: 2018-06-20 18:24:05

Local clock offset: -0.142 ms

Remote clock offset: 1.499 ms

Below is generated by plot.py at 2018-06-20 21:07:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.66 Mbit/s

95th percentile per-packet one-way delay: 53.746 ms

Loss rate: 0.69%

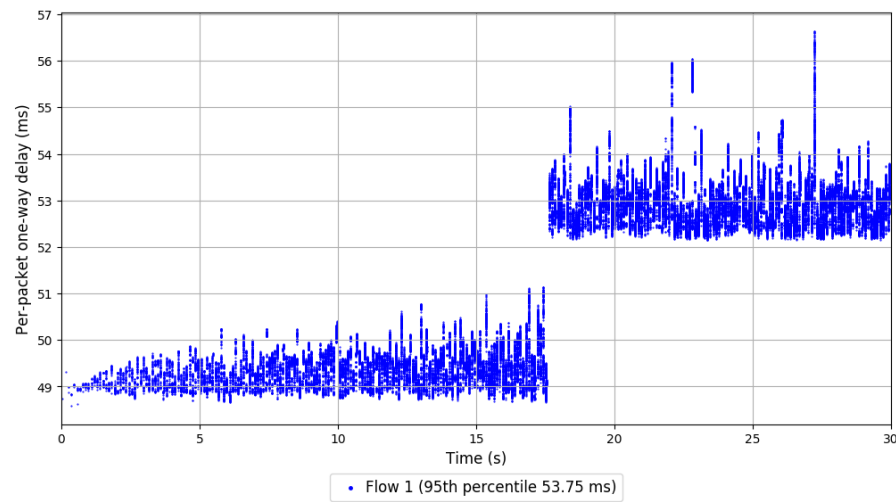
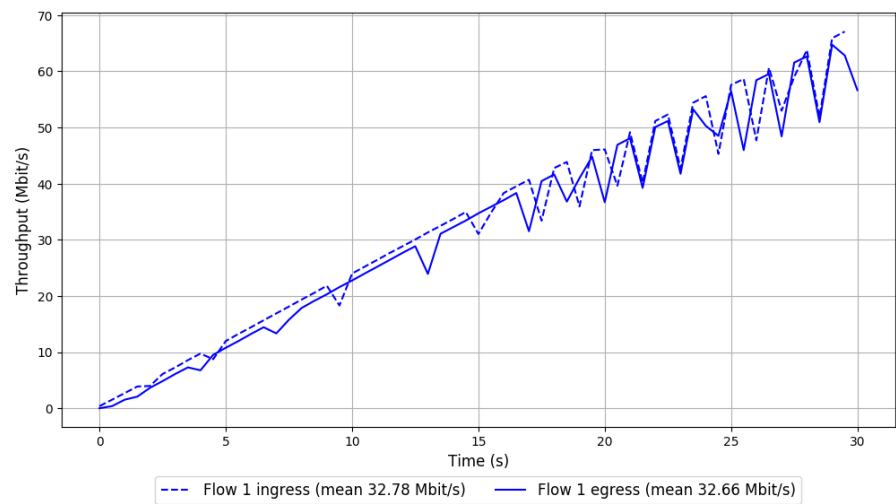
-- Flow 1:

Average throughput: 32.66 Mbit/s

95th percentile per-packet one-way delay: 53.746 ms

Loss rate: 0.69%

Run 6: Report of LEDBAT — Data Link

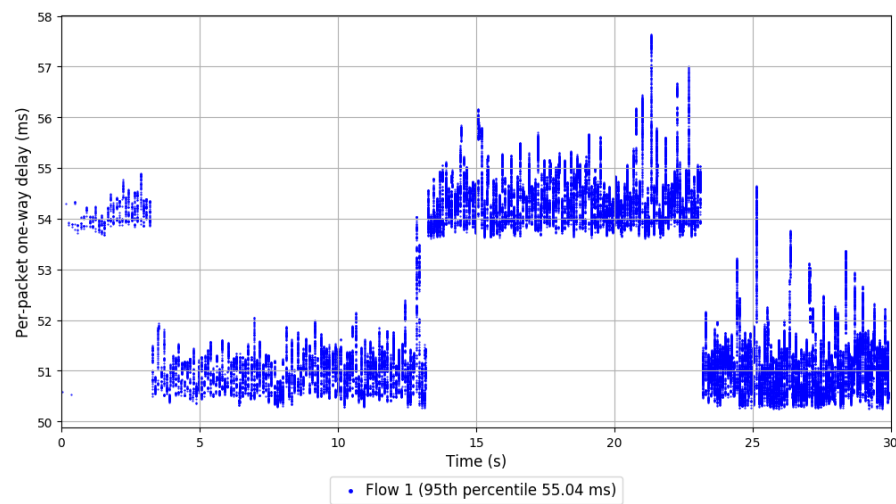
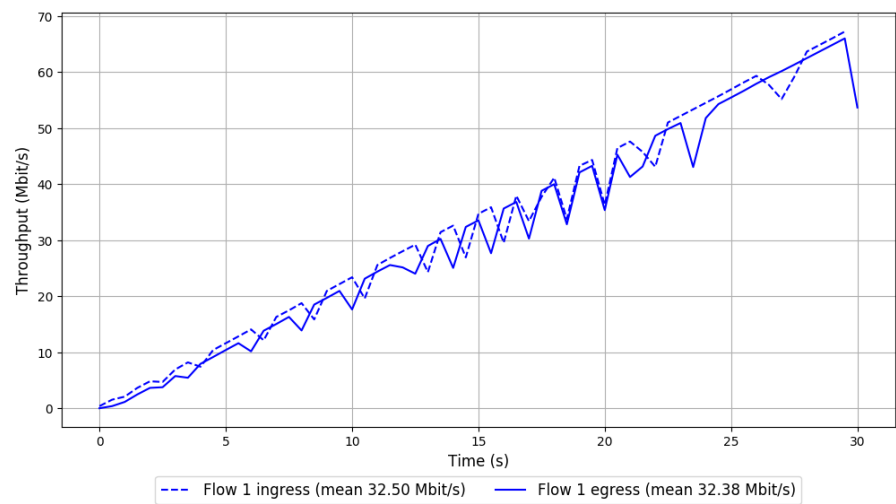


Run 7: Statistics of LEDBAT

Start at: 2018-06-20 18:44:09
End at: 2018-06-20 18:44:39
Local clock offset: -0.119 ms
Remote clock offset: -0.349 ms

Below is generated by plot.py at 2018-06-20 21:07:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 32.38 Mbit/s
95th percentile per-packet one-way delay: 55.043 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 32.38 Mbit/s
95th percentile per-packet one-way delay: 55.043 ms
Loss rate: 0.70%

Run 7: Report of LEDBAT — Data Link

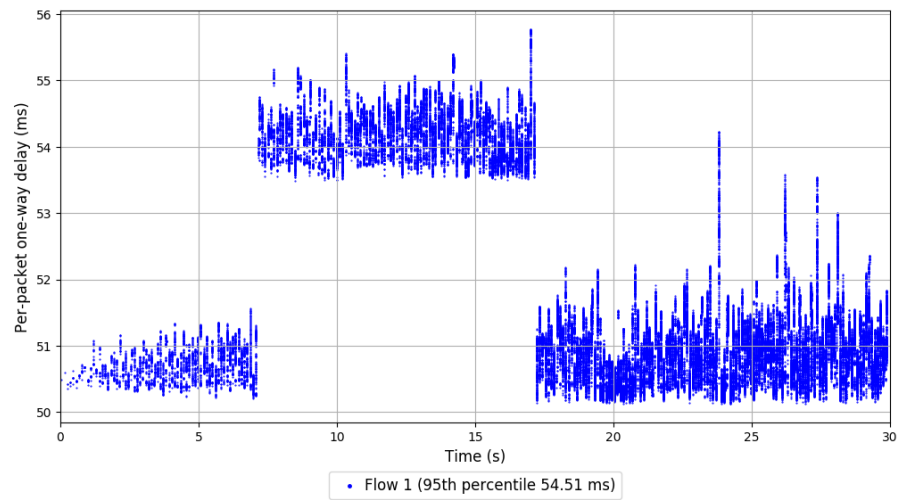
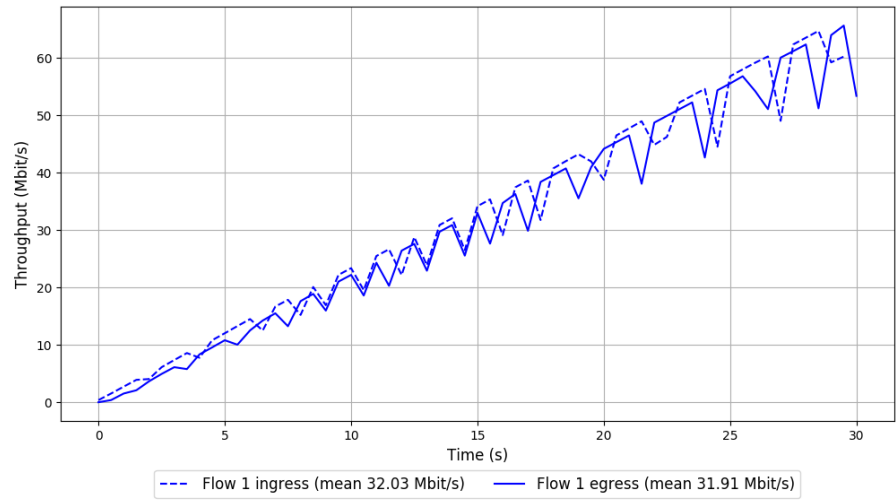


Run 8: Statistics of LEDBAT

Start at: 2018-06-20 19:04:45
End at: 2018-06-20 19:05:15
Local clock offset: -0.164 ms
Remote clock offset: -0.335 ms

Below is generated by plot.py at 2018-06-20 21:07:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 31.91 Mbit/s
95th percentile per-packet one-way delay: 54.514 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 31.91 Mbit/s
95th percentile per-packet one-way delay: 54.514 ms
Loss rate: 0.70%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-06-20 19:25:36

End at: 2018-06-20 19:26:06

Local clock offset: -0.079 ms

Remote clock offset: 1.276 ms

Below is generated by plot.py at 2018-06-20 21:07:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.63 Mbit/s

95th percentile per-packet one-way delay: 53.592 ms

Loss rate: 0.73%

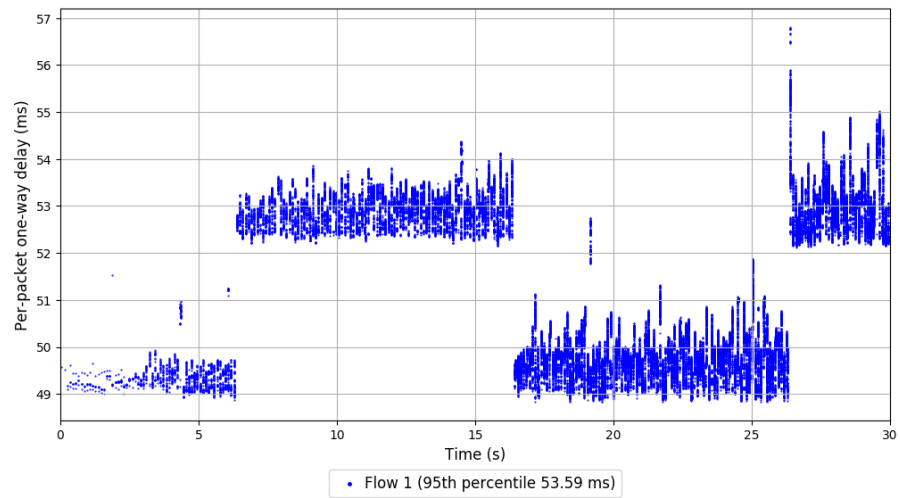
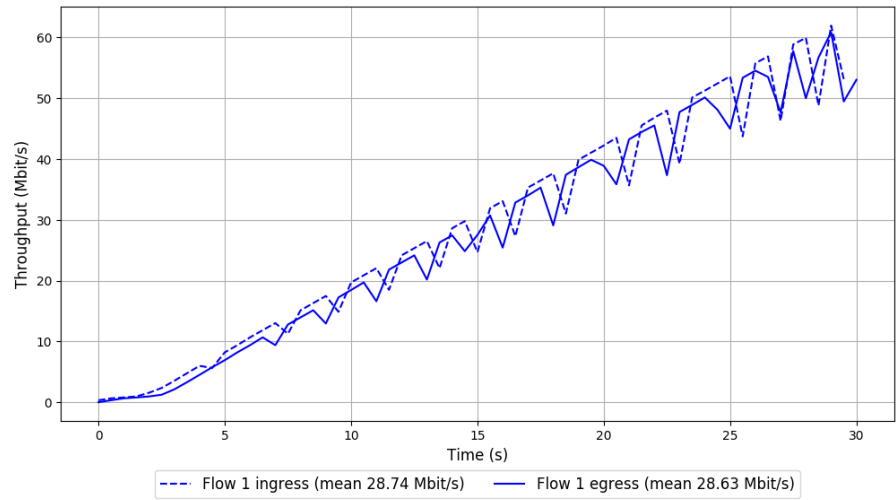
-- Flow 1:

Average throughput: 28.63 Mbit/s

95th percentile per-packet one-way delay: 53.592 ms

Loss rate: 0.73%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-06-20 19:46:14

End at: 2018-06-20 19:46:44

Local clock offset: 0.226 ms

Remote clock offset: 0.15 ms

Below is generated by plot.py at 2018-06-20 21:07:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.22 Mbit/s

95th percentile per-packet one-way delay: 54.882 ms

Loss rate: 0.71%

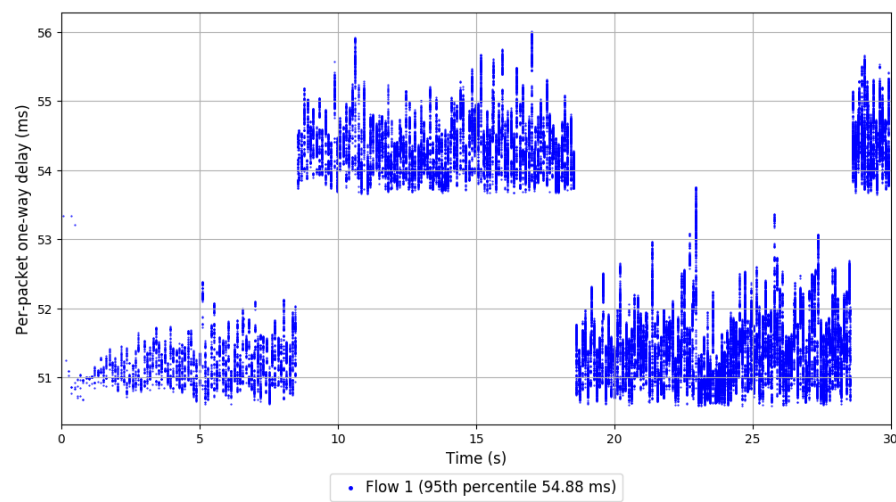
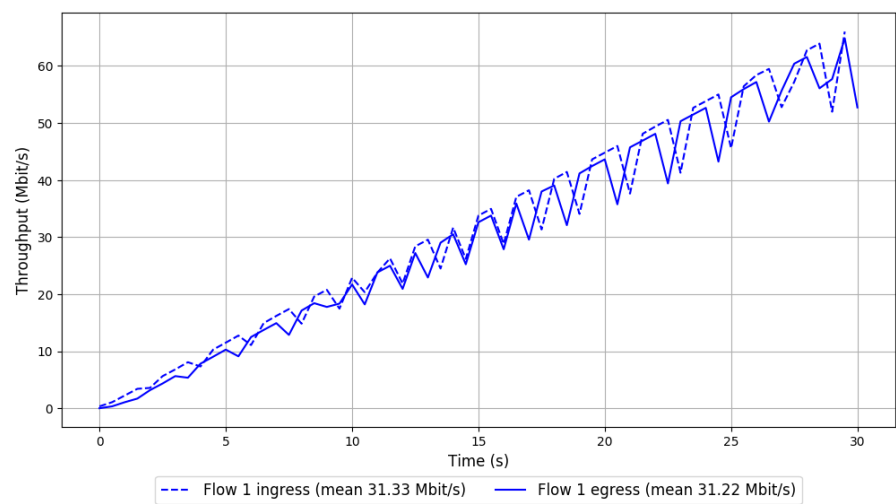
-- Flow 1:

Average throughput: 31.22 Mbit/s

95th percentile per-packet one-way delay: 54.882 ms

Loss rate: 0.71%

Run 10: Report of LEDBAT — Data Link

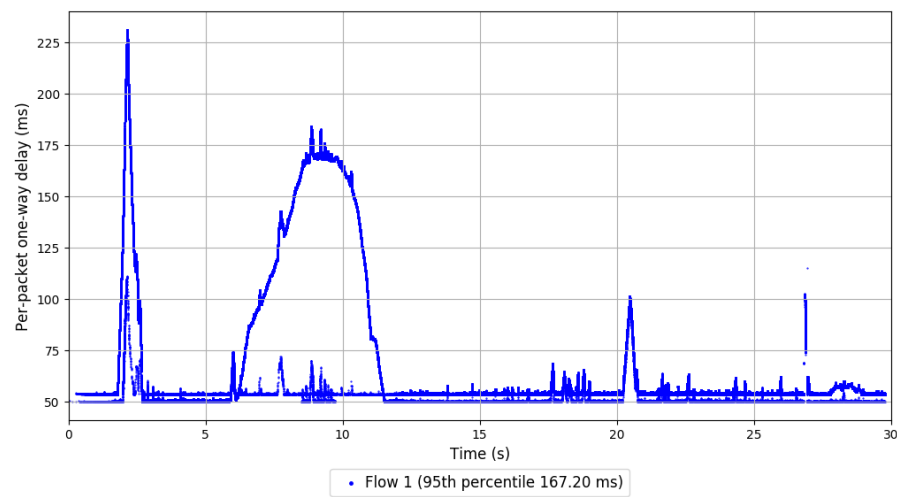
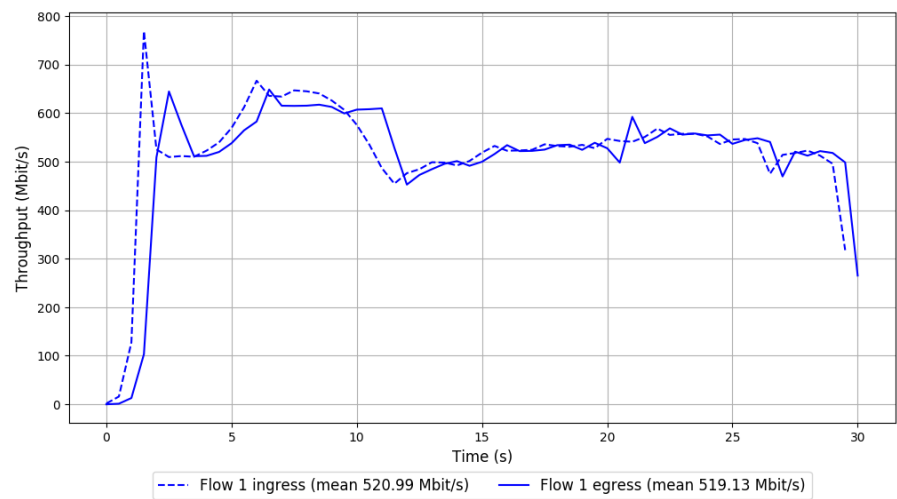


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-06-20 16:57:10
End at: 2018-06-20 16:57:40
Local clock offset: -0.063 ms
Remote clock offset: 0.005 ms

# Below is generated by plot.py at 2018-06-20 21:07:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 519.13 Mbit/s
95th percentile per-packet one-way delay: 167.200 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 519.13 Mbit/s
95th percentile per-packet one-way delay: 167.200 ms
Loss rate: 0.71%
```


Run 1: Report of PCC-Allegro — Data Link

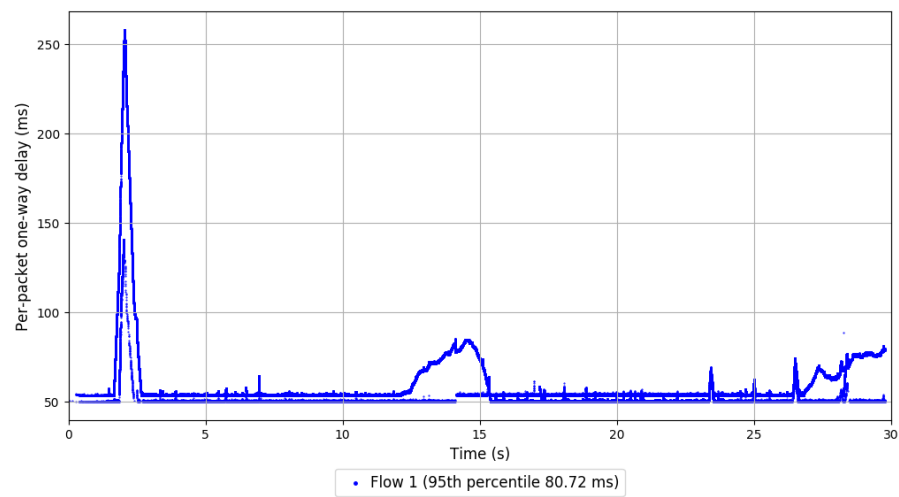
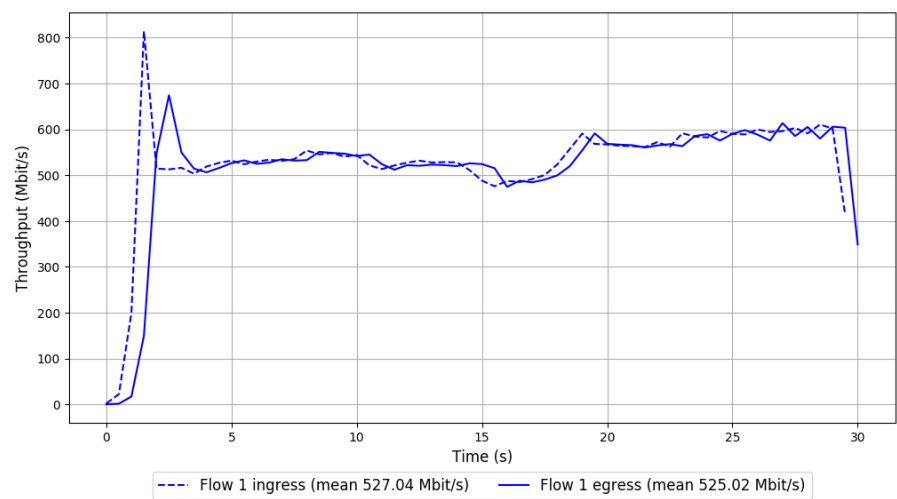


Run 2: Statistics of PCC-Allegro

Start at: 2018-06-20 17:17:38
End at: 2018-06-20 17:18:08
Local clock offset: -0.013 ms
Remote clock offset: -0.129 ms

Below is generated by plot.py at 2018-06-20 21:07:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 525.02 Mbit/s
95th percentile per-packet one-way delay: 80.723 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 525.02 Mbit/s
95th percentile per-packet one-way delay: 80.723 ms
Loss rate: 0.72%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-06-20 17:38:34

End at: 2018-06-20 17:39:04

Local clock offset: -0.019 ms

Remote clock offset: -0.016 ms

Below is generated by plot.py at 2018-06-20 21:08:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 566.22 Mbit/s

95th percentile per-packet one-way delay: 165.951 ms

Loss rate: 1.50%

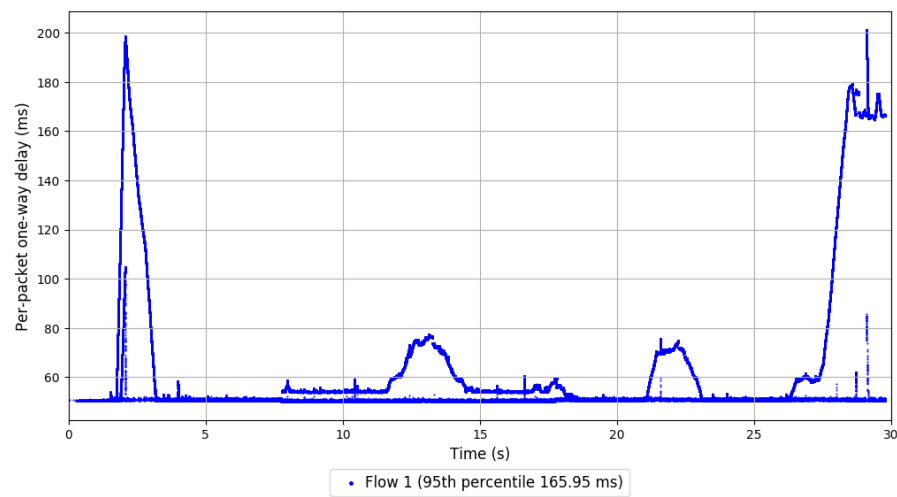
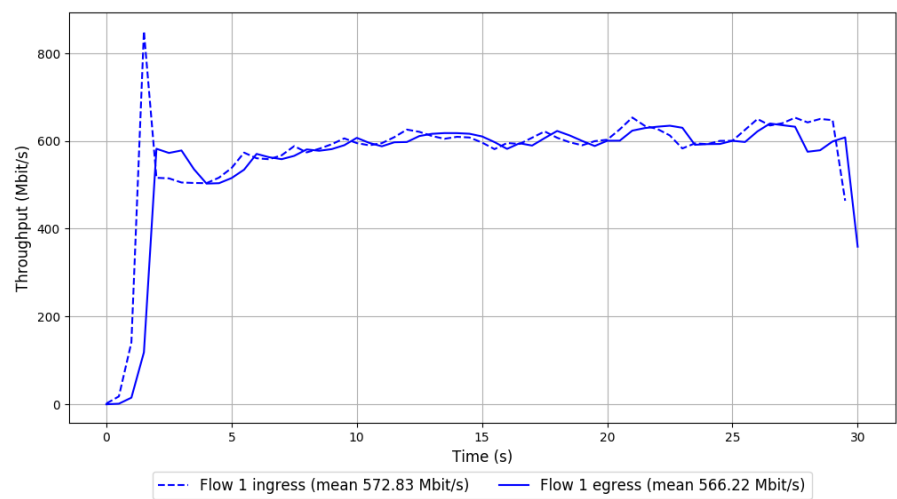
-- Flow 1:

Average throughput: 566.22 Mbit/s

95th percentile per-packet one-way delay: 165.951 ms

Loss rate: 1.50%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-06-20 17:59:00

End at: 2018-06-20 17:59:30

Local clock offset: -0.032 ms

Remote clock offset: 0.217 ms

Below is generated by plot.py at 2018-06-20 21:08:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 501.83 Mbit/s

95th percentile per-packet one-way delay: 190.394 ms

Loss rate: 2.86%

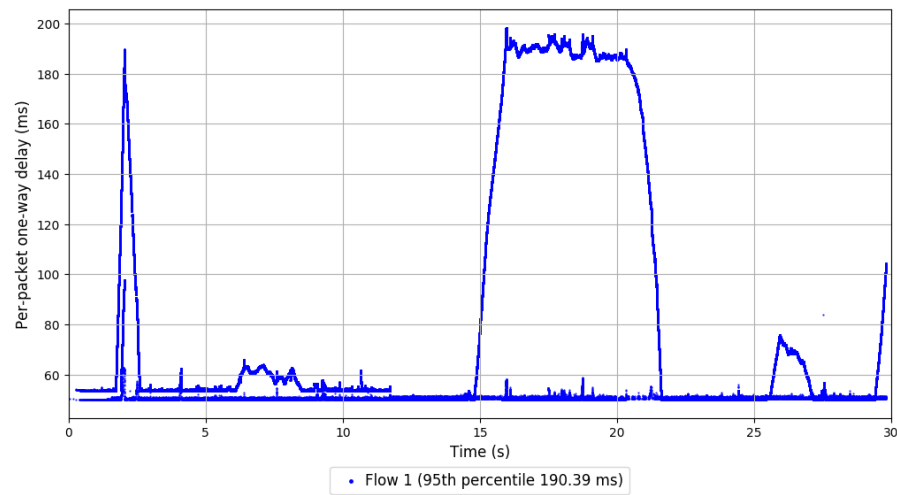
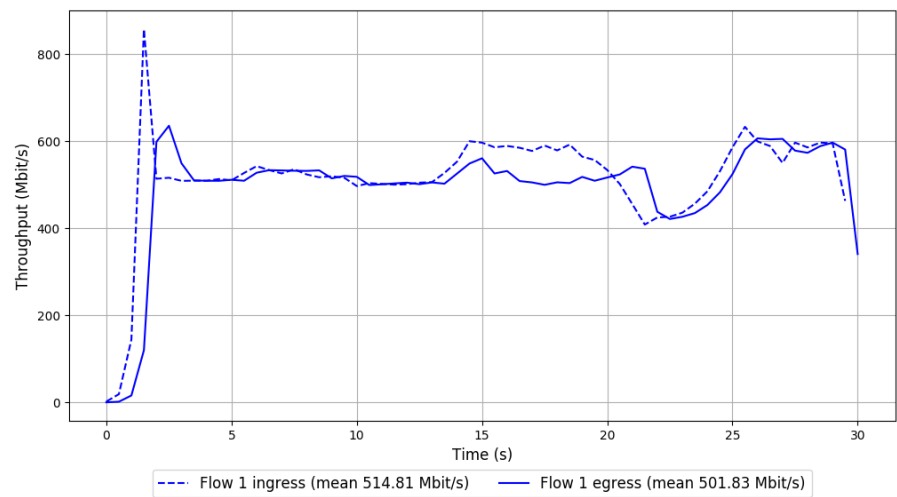
-- Flow 1:

Average throughput: 501.83 Mbit/s

95th percentile per-packet one-way delay: 190.394 ms

Loss rate: 2.86%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-06-20 18:19:22

End at: 2018-06-20 18:19:52

Local clock offset: 0.011 ms

Remote clock offset: 0.441 ms

Below is generated by plot.py at 2018-06-20 21:08:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 575.94 Mbit/s

95th percentile per-packet one-way delay: 89.594 ms

Loss rate: 0.63%

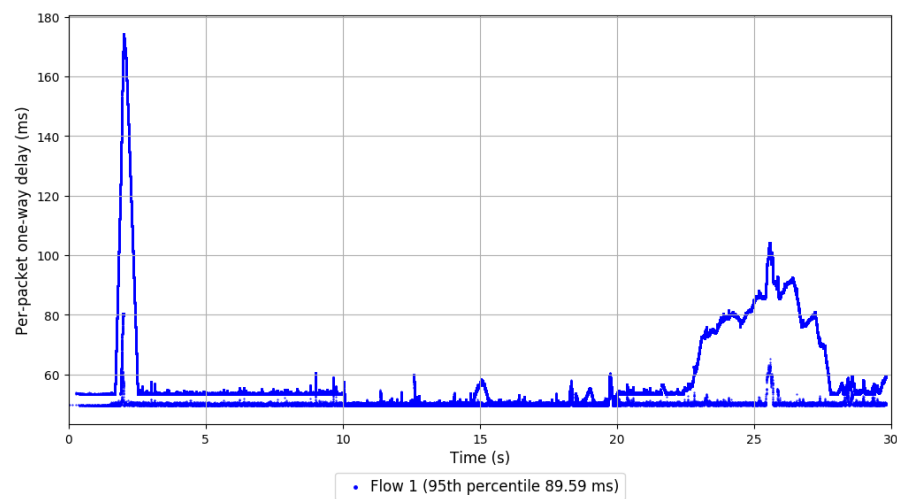
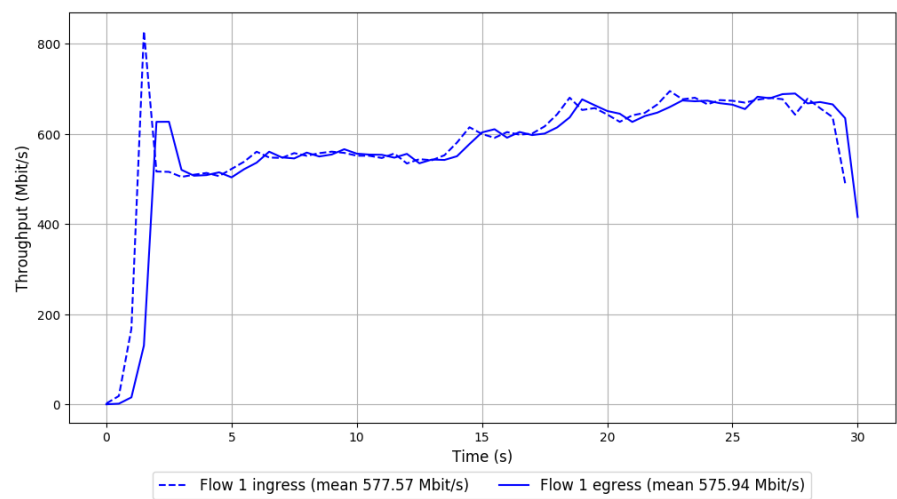
-- Flow 1:

Average throughput: 575.94 Mbit/s

95th percentile per-packet one-way delay: 89.594 ms

Loss rate: 0.63%

Run 5: Report of PCC-Allegro — Data Link

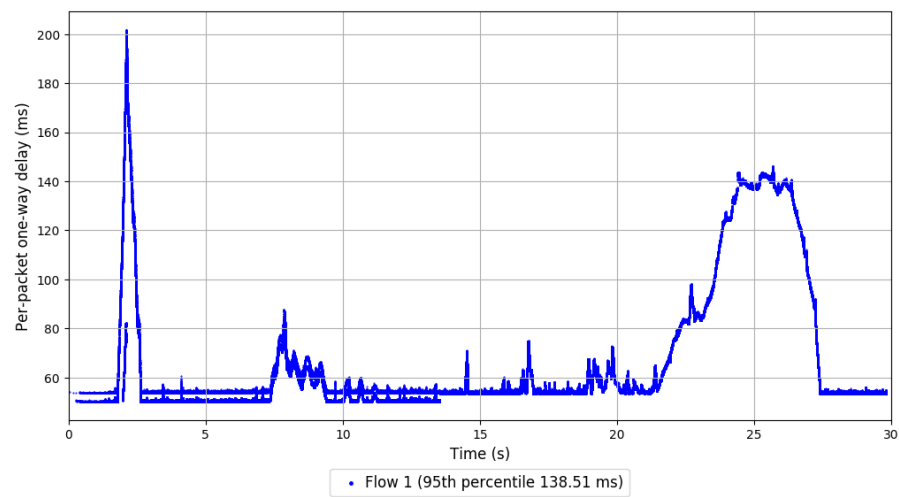
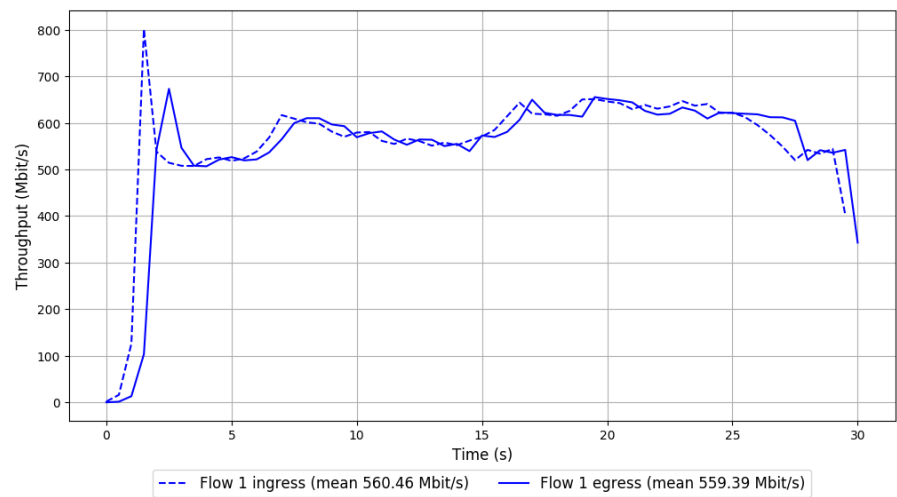


Run 6: Statistics of PCC-Allegro

Start at: 2018-06-20 18:40:08
End at: 2018-06-20 18:40:38
Local clock offset: -0.008 ms
Remote clock offset: -0.068 ms

Below is generated by plot.py at 2018-06-20 21:09:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 559.39 Mbit/s
95th percentile per-packet one-way delay: 138.506 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 559.39 Mbit/s
95th percentile per-packet one-way delay: 138.506 ms
Loss rate: 0.56%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-06-20 19:00:20

End at: 2018-06-20 19:00:50

Local clock offset: -0.067 ms

Remote clock offset: -1.49 ms

Below is generated by plot.py at 2018-06-20 21:16:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 582.76 Mbit/s

95th percentile per-packet one-way delay: 108.555 ms

Loss rate: 0.92%

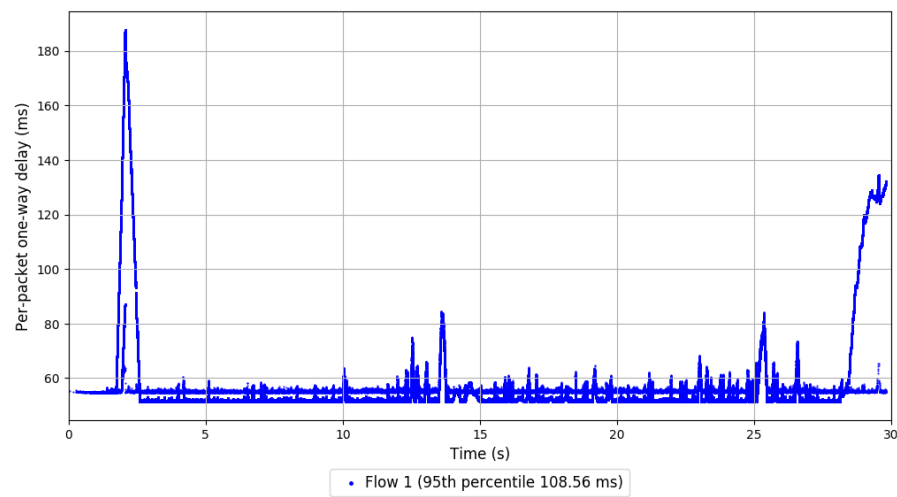
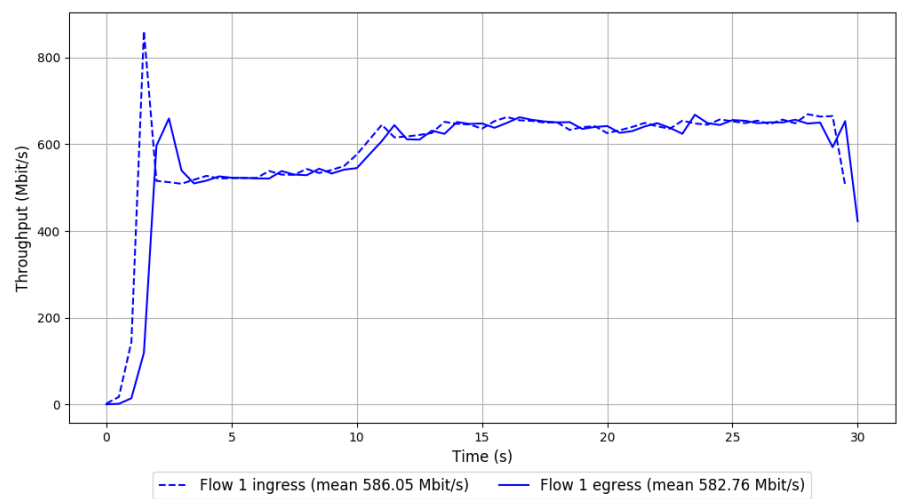
-- Flow 1:

Average throughput: 582.76 Mbit/s

95th percentile per-packet one-way delay: 108.555 ms

Loss rate: 0.92%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-06-20 19:21:06

End at: 2018-06-20 19:21:36

Local clock offset: 0.02 ms

Remote clock offset: 1.327 ms

Below is generated by plot.py at 2018-06-20 21:16:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 575.06 Mbit/s

95th percentile per-packet one-way delay: 190.079 ms

Loss rate: 2.28%

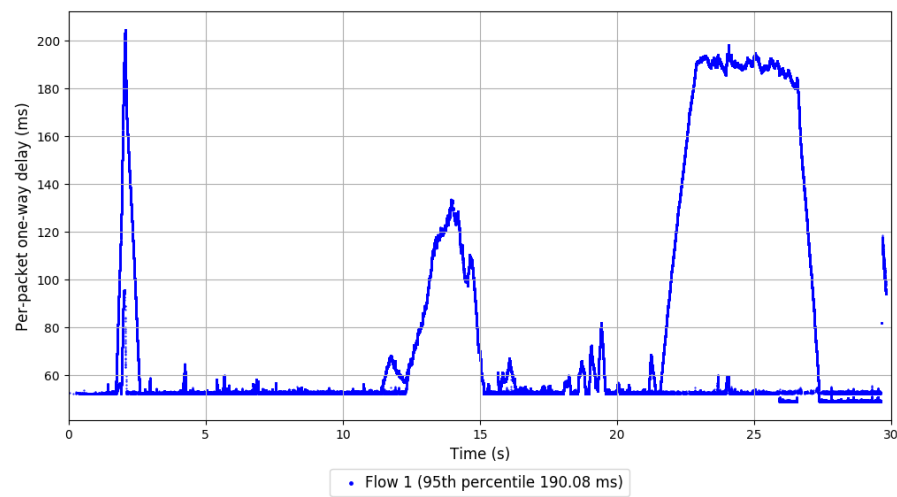
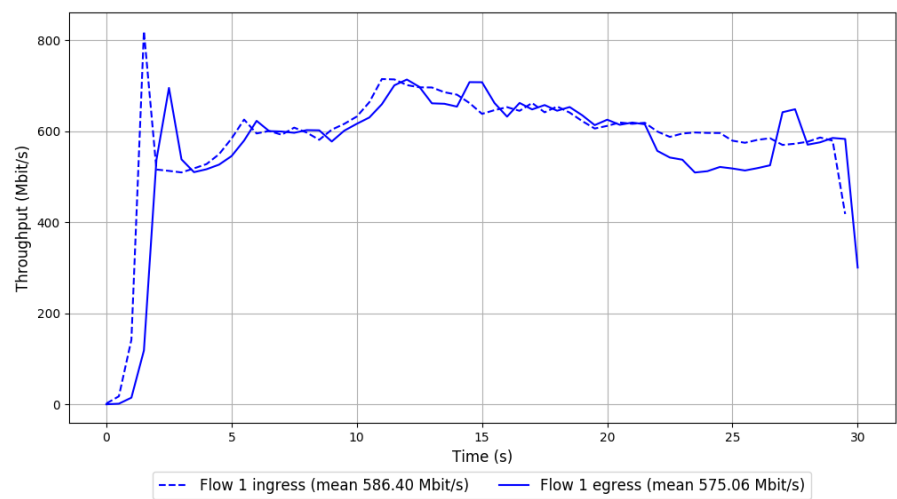
-- Flow 1:

Average throughput: 575.06 Mbit/s

95th percentile per-packet one-way delay: 190.079 ms

Loss rate: 2.28%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-06-20 19:41:58

End at: 2018-06-20 19:42:28

Local clock offset: -0.099 ms

Remote clock offset: 0.289 ms

Below is generated by plot.py at 2018-06-20 21:16:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 551.04 Mbit/s

95th percentile per-packet one-way delay: 98.014 ms

Loss rate: 0.96%

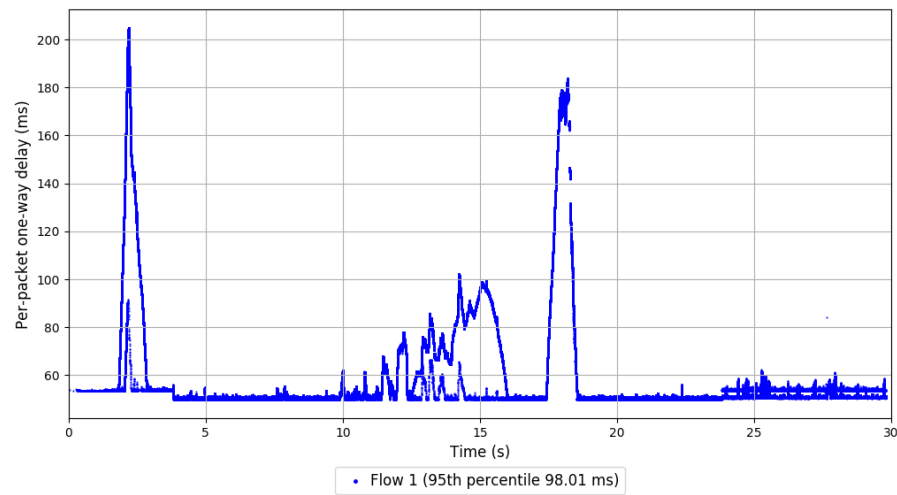
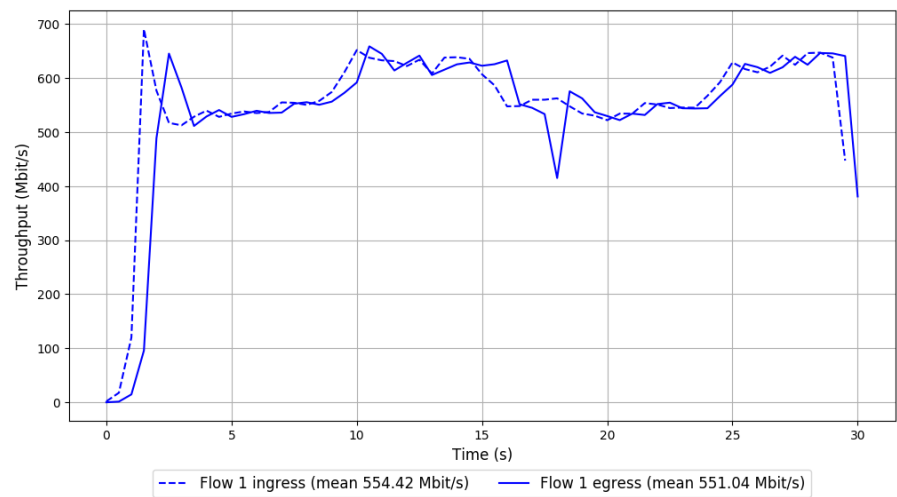
-- Flow 1:

Average throughput: 551.04 Mbit/s

95th percentile per-packet one-way delay: 98.014 ms

Loss rate: 0.96%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

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

End at: 2018-06-20 20:03:00

Local clock offset: -0.079 ms

Remote clock offset: 0.242 ms

Below is generated by plot.py at 2018-06-20 21:16:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 518.65 Mbit/s

95th percentile per-packet one-way delay: 186.721 ms

Loss rate: 2.54%

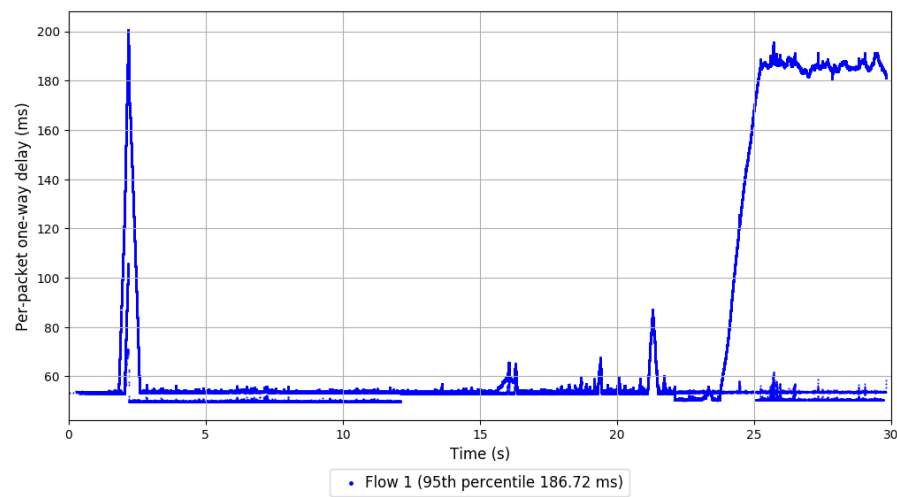
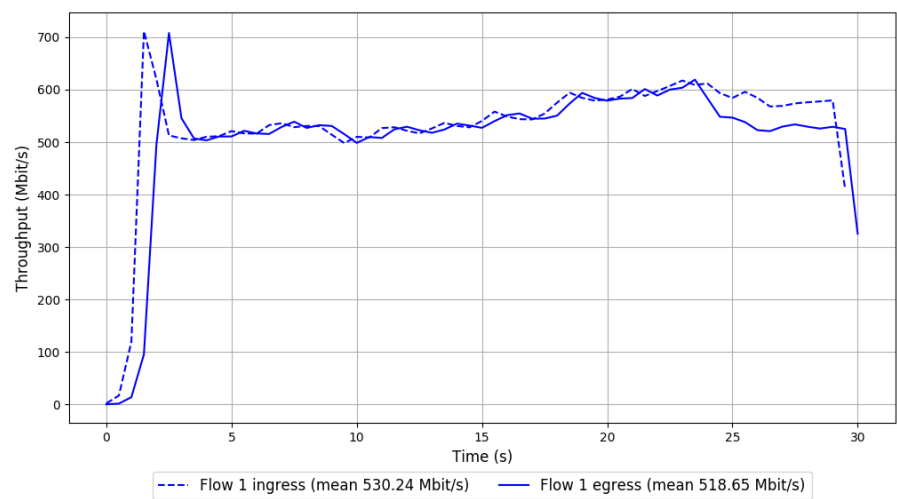
-- Flow 1:

Average throughput: 518.65 Mbit/s

95th percentile per-packet one-way delay: 186.721 ms

Loss rate: 2.54%

Run 10: Report of PCC-Allegro — Data Link

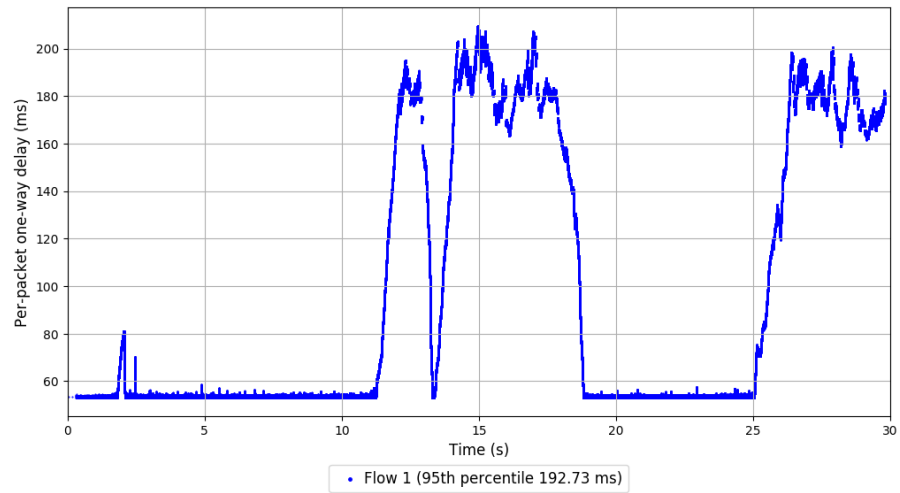
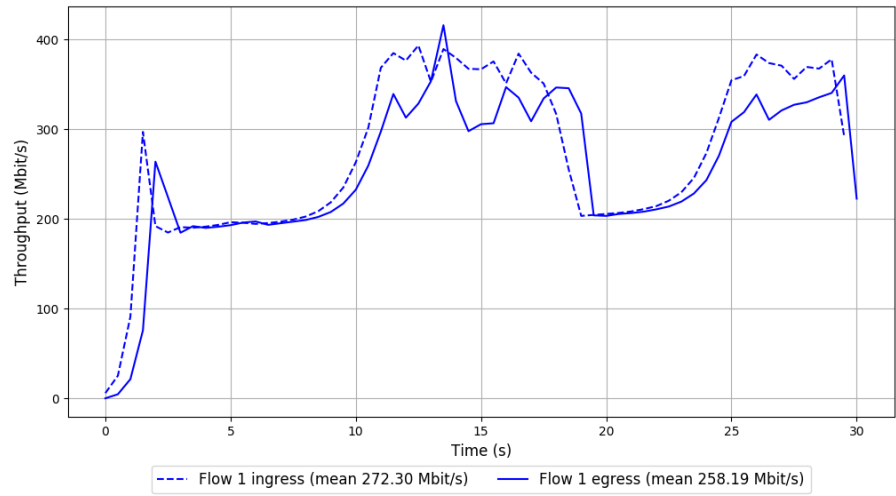


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-20 16:58:34
End at: 2018-06-20 16:59:04
Local clock offset: -0.204 ms
Remote clock offset: -0.349 ms

# Below is generated by plot.py at 2018-06-20 21:16:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 258.19 Mbit/s
95th percentile per-packet one-way delay: 192.734 ms
Loss rate: 5.52%
-- Flow 1:
Average throughput: 258.19 Mbit/s
95th percentile per-packet one-way delay: 192.734 ms
Loss rate: 5.52%
```

Run 1: Report of PCC-Expr — Data Link

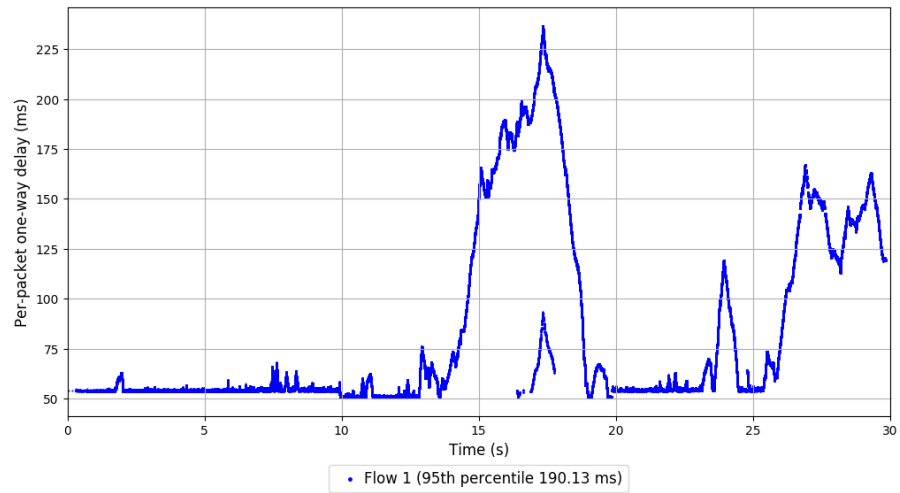
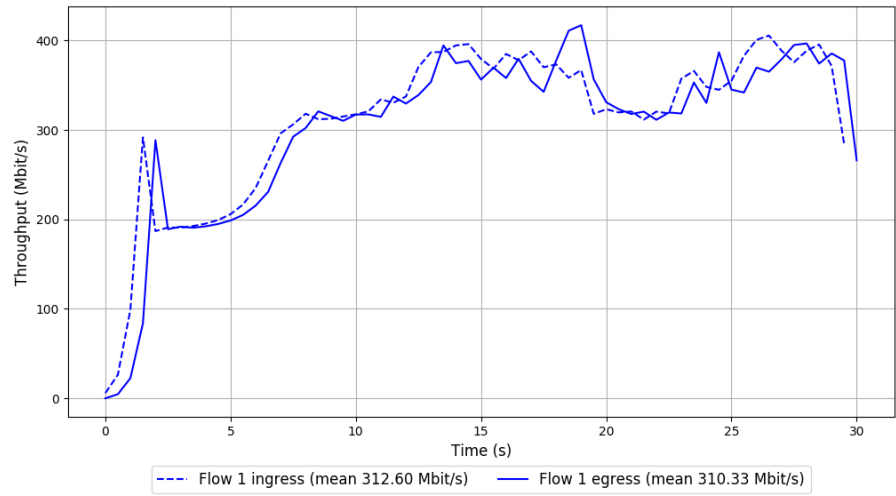


Run 2: Statistics of PCC-Expr

Start at: 2018-06-20 17:19:02
End at: 2018-06-20 17:19:32
Local clock offset: -0.123 ms
Remote clock offset: -0.466 ms

Below is generated by plot.py at 2018-06-20 21:17:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 310.33 Mbit/s
95th percentile per-packet one-way delay: 190.127 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 310.33 Mbit/s
95th percentile per-packet one-way delay: 190.127 ms
Loss rate: 1.08%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-06-20 17:39:59

End at: 2018-06-20 17:40:29

Local clock offset: 0.164 ms

Remote clock offset: 1.166 ms

Below is generated by plot.py at 2018-06-20 21:17:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 105.53 Mbit/s

95th percentile per-packet one-way delay: 52.878 ms

Loss rate: 0.36%

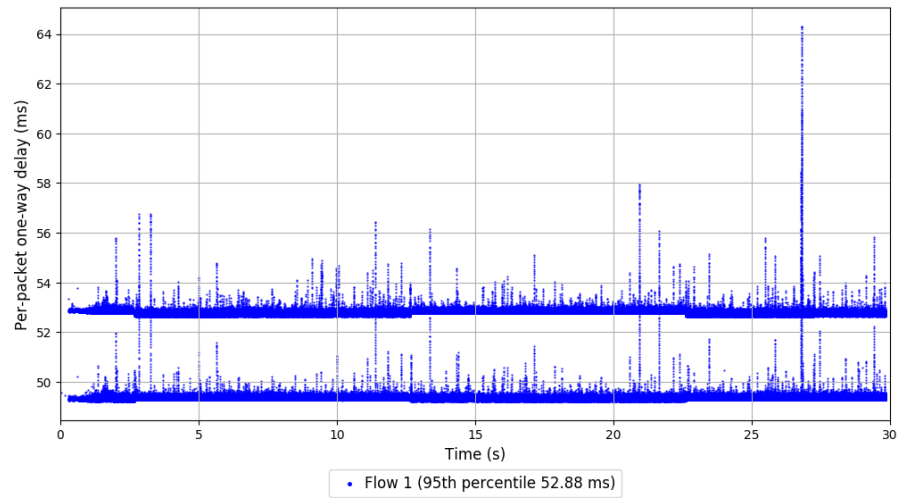
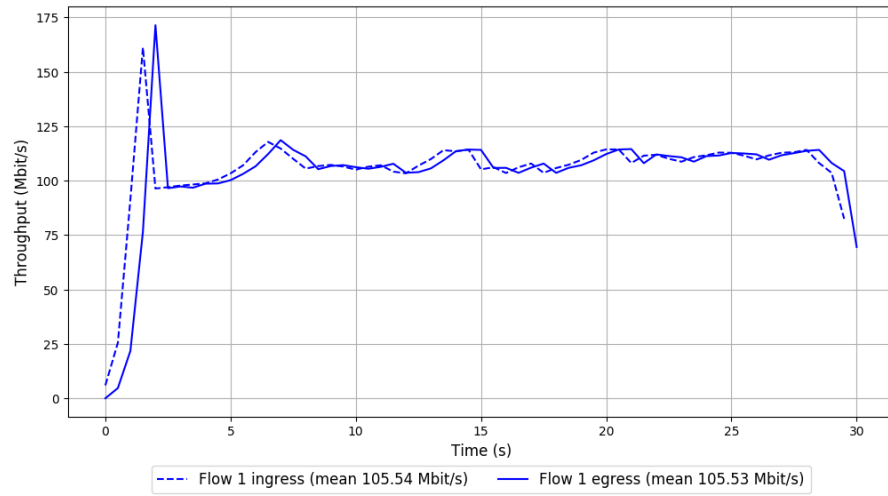
-- Flow 1:

Average throughput: 105.53 Mbit/s

95th percentile per-packet one-way delay: 52.878 ms

Loss rate: 0.36%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-06-20 18:00:23

End at: 2018-06-20 18:00:53

Local clock offset: -0.111 ms

Remote clock offset: 0.315 ms

Below is generated by plot.py at 2018-06-20 21:17:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 162.90 Mbit/s

95th percentile per-packet one-way delay: 130.955 ms

Loss rate: 1.49%

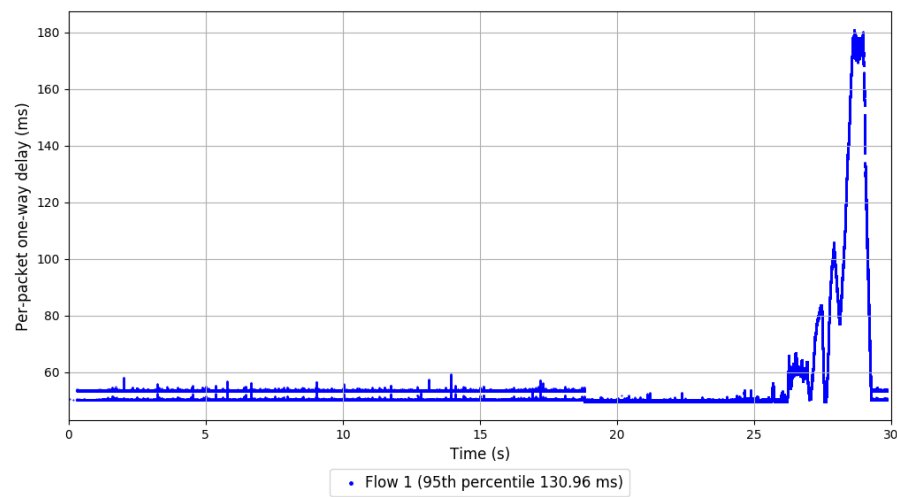
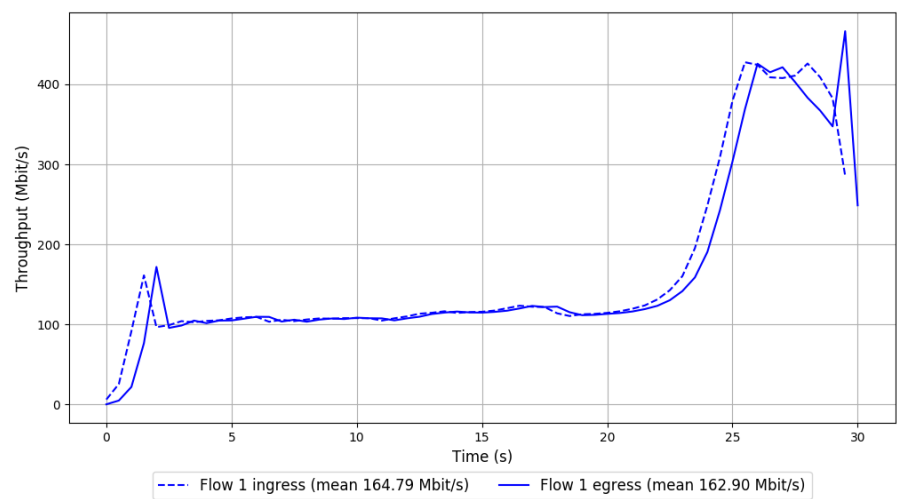
-- Flow 1:

Average throughput: 162.90 Mbit/s

95th percentile per-packet one-way delay: 130.955 ms

Loss rate: 1.49%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

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

End at: 2018-06-20 18:21:17

Local clock offset: 0.051 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2018-06-20 21:24:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 334.98 Mbit/s

95th percentile per-packet one-way delay: 129.397 ms

Loss rate: 2.39%

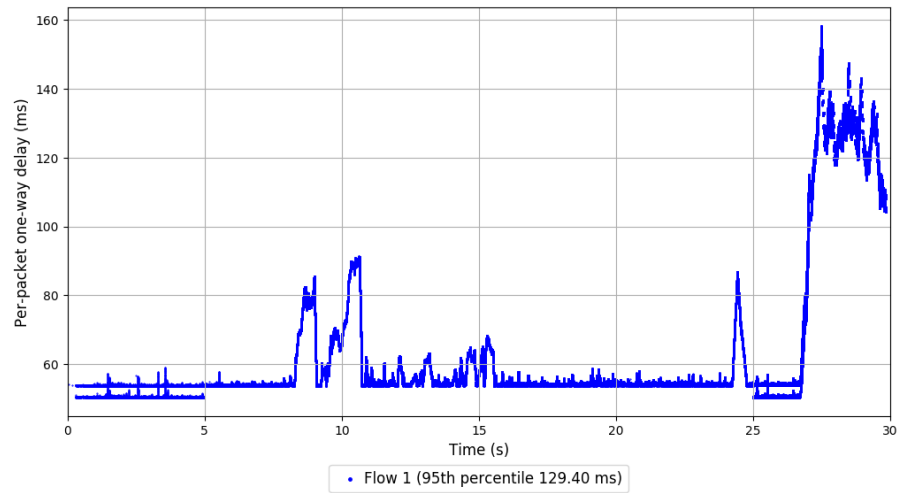
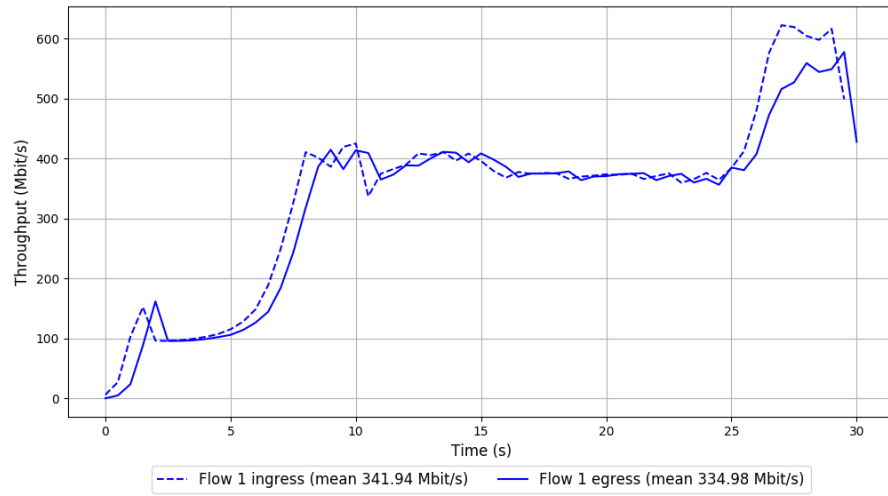
-- Flow 1:

Average throughput: 334.98 Mbit/s

95th percentile per-packet one-way delay: 129.397 ms

Loss rate: 2.39%

Run 5: Report of PCC-Expr — Data Link

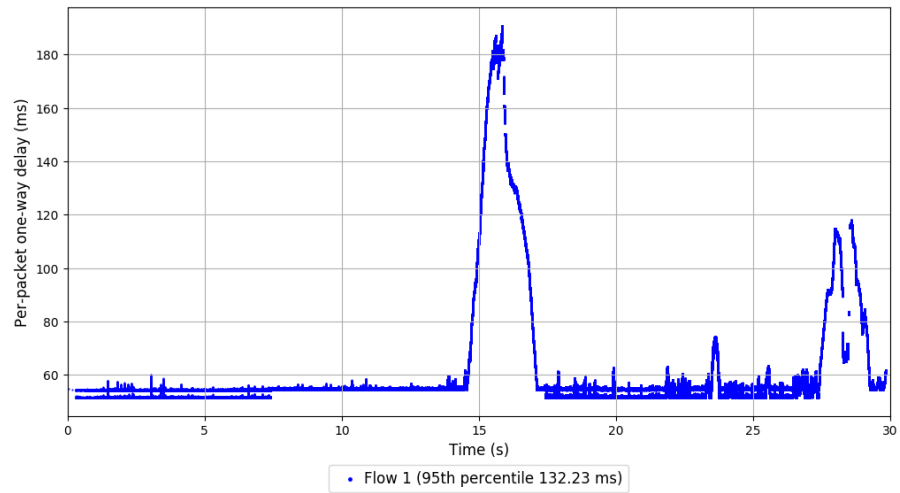
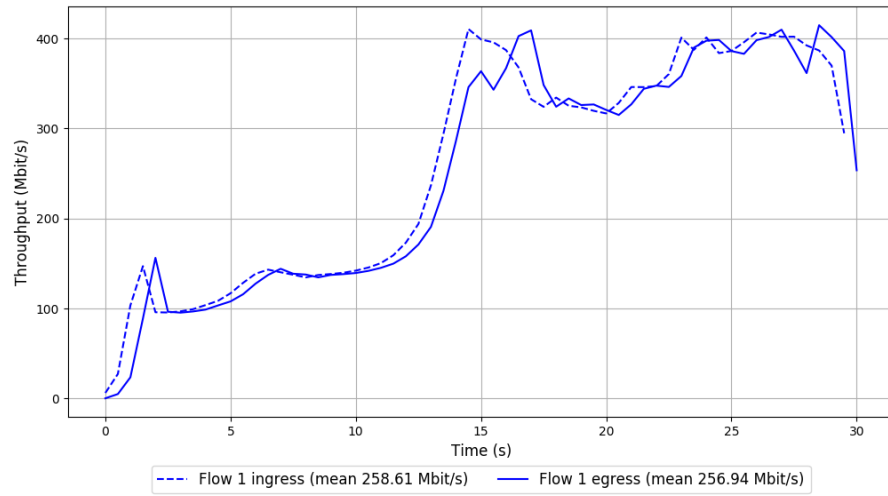


Run 6: Statistics of PCC-Expr

Start at: 2018-06-20 18:41:35
End at: 2018-06-20 18:42:05
Local clock offset: 0.004 ms
Remote clock offset: -1.427 ms

Below is generated by plot.py at 2018-06-20 21:24:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 256.94 Mbit/s
95th percentile per-packet one-way delay: 132.229 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 256.94 Mbit/s
95th percentile per-packet one-way delay: 132.229 ms
Loss rate: 0.99%

Run 6: Report of PCC-Expr — Data Link

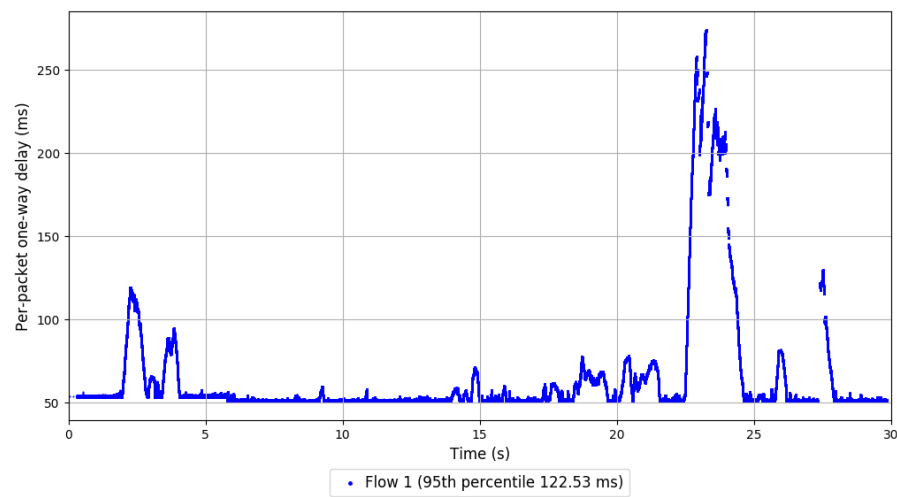
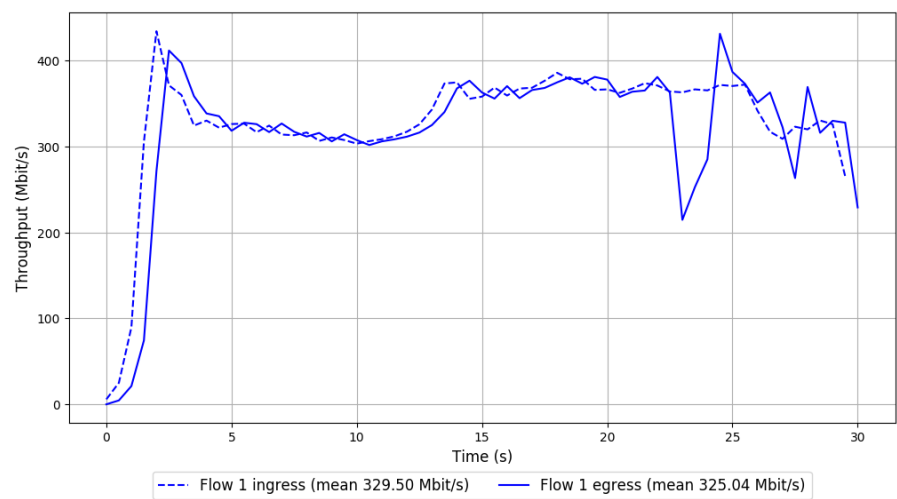


Run 7: Statistics of PCC-Expr

Start at: 2018-06-20 19:01:46
End at: 2018-06-20 19:02:16
Local clock offset: 0.11 ms
Remote clock offset: -0.374 ms

Below is generated by plot.py at 2018-06-20 21:26:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 325.04 Mbit/s
95th percentile per-packet one-way delay: 122.527 ms
Loss rate: 1.71%
-- Flow 1:
Average throughput: 325.04 Mbit/s
95th percentile per-packet one-way delay: 122.527 ms
Loss rate: 1.71%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-06-20 19:22:32

End at: 2018-06-20 19:23:02

Local clock offset: 0.086 ms

Remote clock offset: -0.03 ms

Below is generated by plot.py at 2018-06-20 21:27:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 333.11 Mbit/s

95th percentile per-packet one-way delay: 149.828 ms

Loss rate: 0.55%

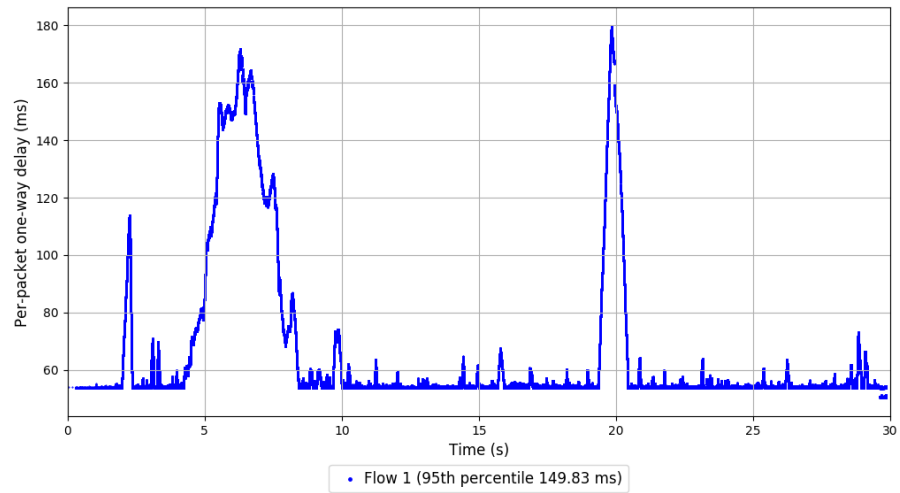
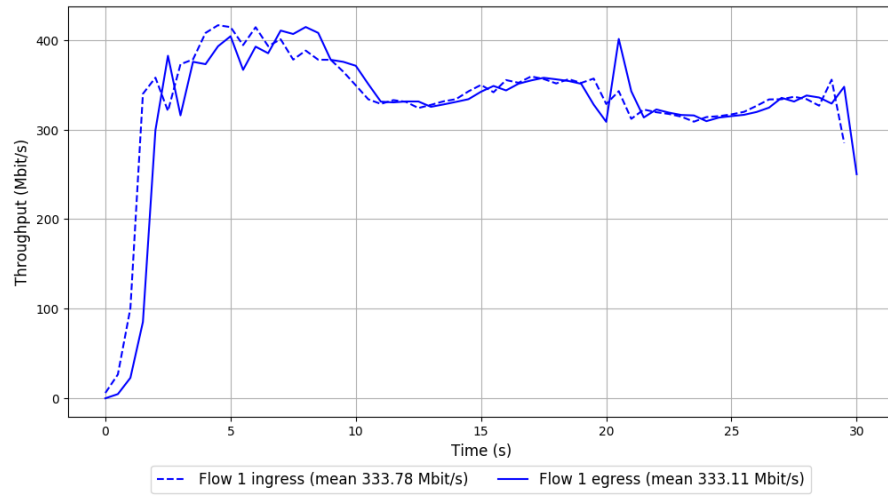
-- Flow 1:

Average throughput: 333.11 Mbit/s

95th percentile per-packet one-way delay: 149.828 ms

Loss rate: 0.55%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-06-20 19:43:23

End at: 2018-06-20 19:43:53

Local clock offset: -0.014 ms

Remote clock offset: 0.123 ms

Below is generated by plot.py at 2018-06-20 21:28:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 374.26 Mbit/s

95th percentile per-packet one-way delay: 152.045 ms

Loss rate: 2.20%

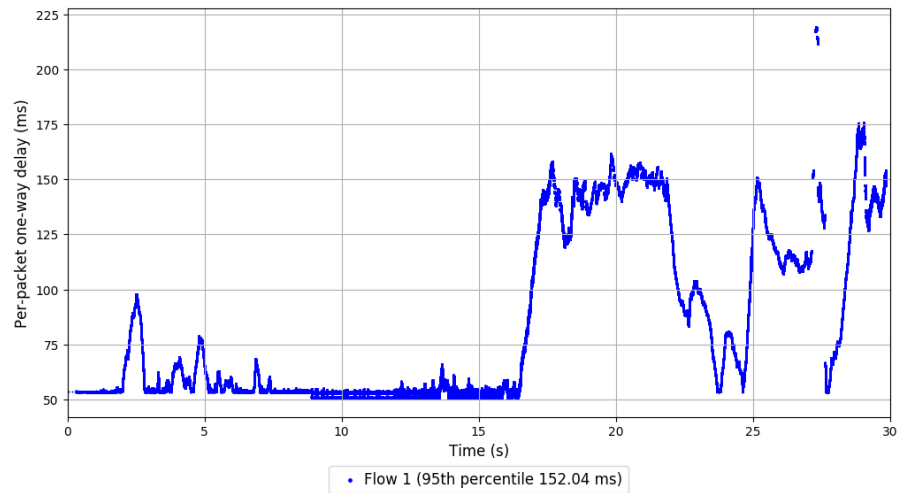
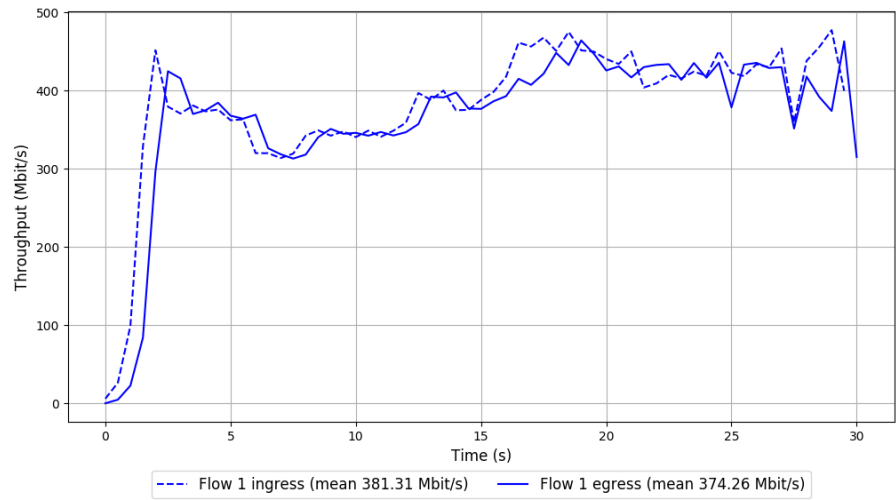
-- Flow 1:

Average throughput: 374.26 Mbit/s

95th percentile per-packet one-way delay: 152.045 ms

Loss rate: 2.20%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-06-20 20:03:53

End at: 2018-06-20 20:04:23

Local clock offset: 0.043 ms

Remote clock offset: -1.308 ms

Below is generated by plot.py at 2018-06-20 21:28:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.05 Mbit/s

95th percentile per-packet one-way delay: 162.786 ms

Loss rate: 1.11%

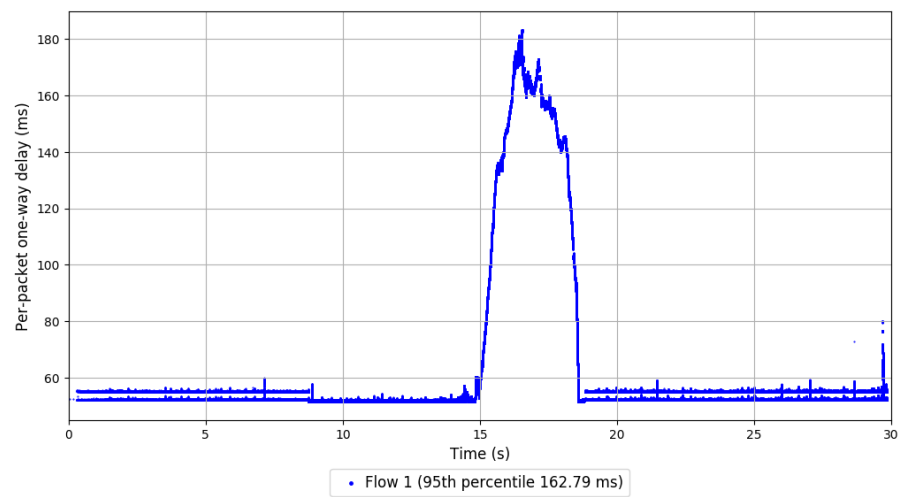
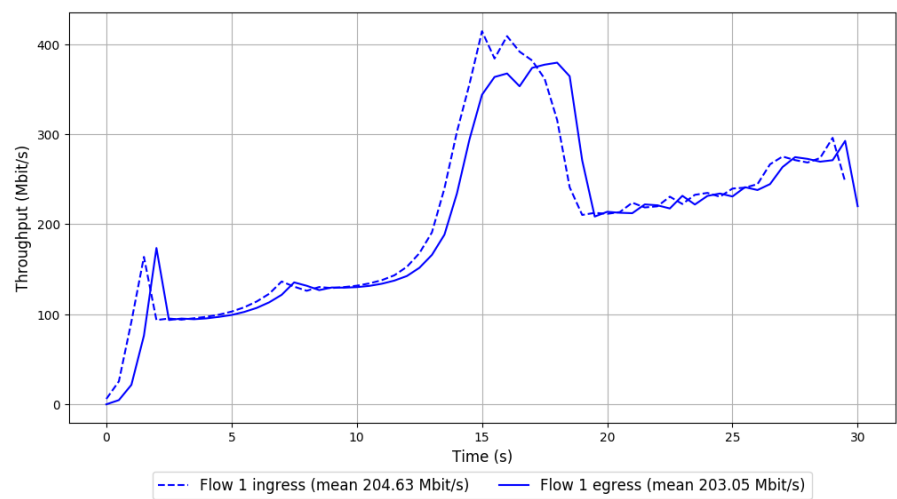
-- Flow 1:

Average throughput: 203.05 Mbit/s

95th percentile per-packet one-way delay: 162.786 ms

Loss rate: 1.11%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-06-20 16:53:37

End at: 2018-06-20 16:54:07

Local clock offset: 0.062 ms

Remote clock offset: -0.061 ms

Below is generated by plot.py at 2018-06-20 21:28:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.62 Mbit/s

95th percentile per-packet one-way delay: 53.951 ms

Loss rate: 0.59%

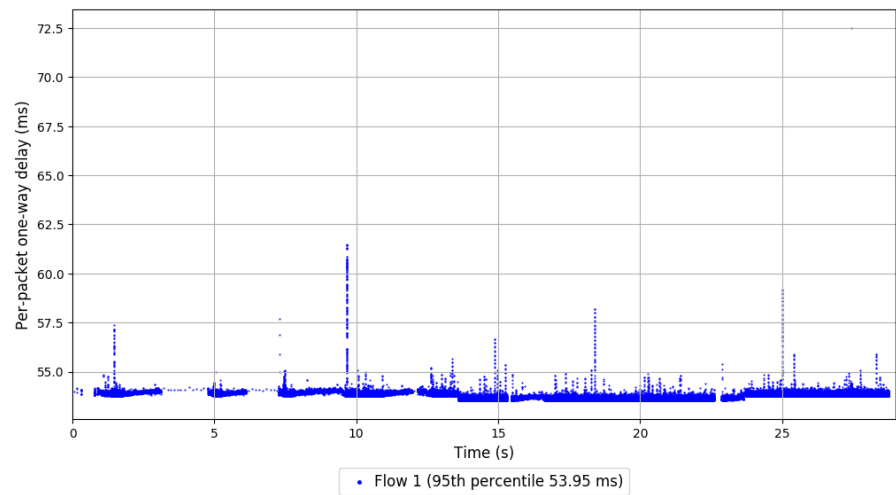
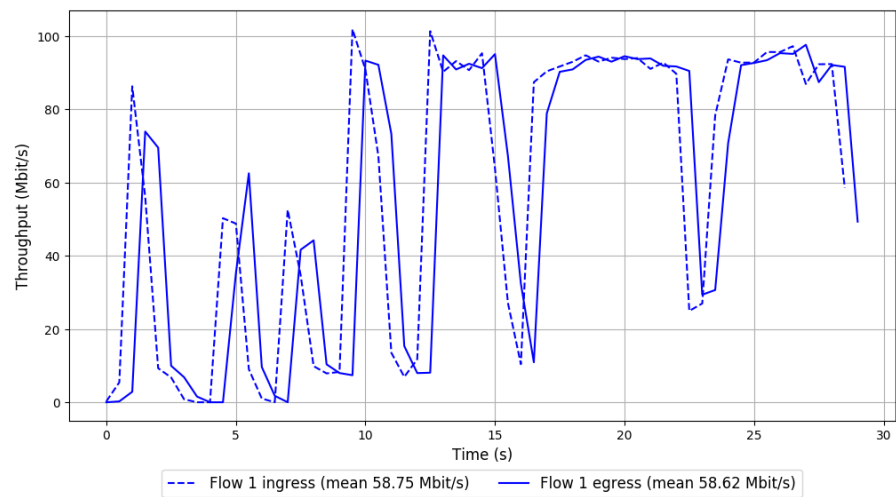
-- Flow 1:

Average throughput: 58.62 Mbit/s

95th percentile per-packet one-way delay: 53.951 ms

Loss rate: 0.59%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-06-20 17:14:03

End at: 2018-06-20 17:14:33

Local clock offset: -0.06 ms

Remote clock offset: 0.134 ms

Below is generated by plot.py at 2018-06-20 21:28:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.49 Mbit/s

95th percentile per-packet one-way delay: 53.367 ms

Loss rate: 0.16%

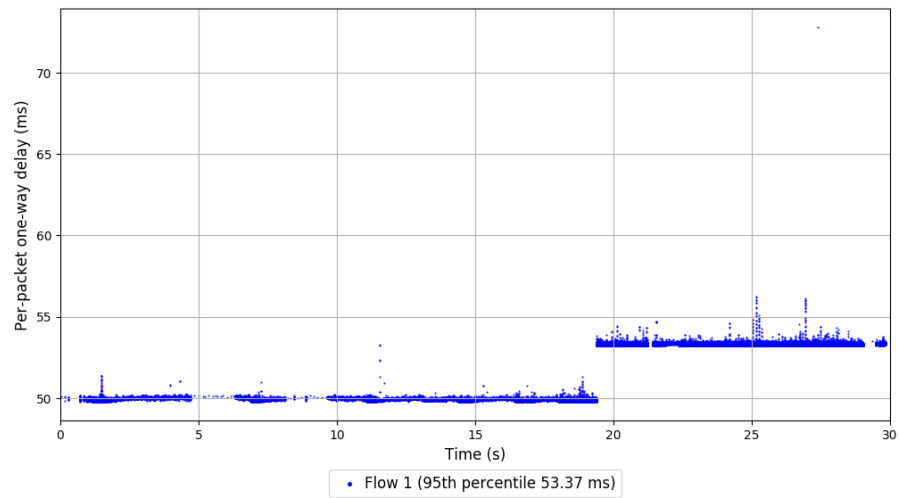
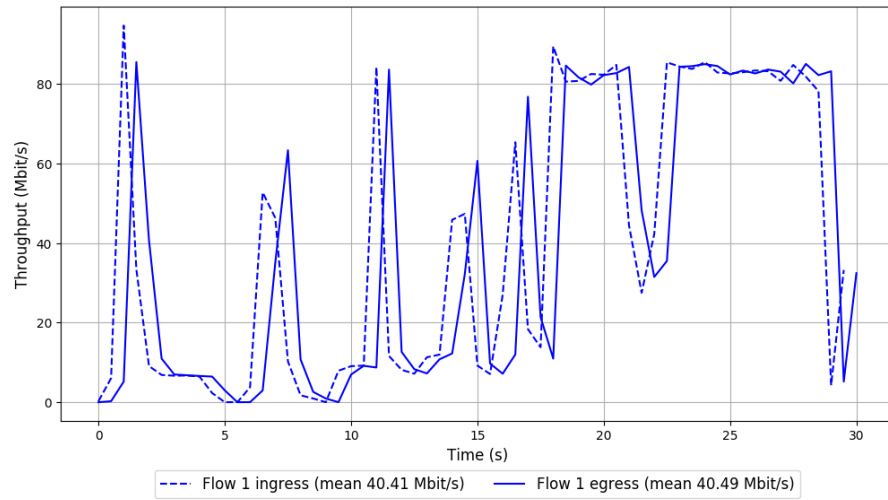
-- Flow 1:

Average throughput: 40.49 Mbit/s

95th percentile per-packet one-way delay: 53.367 ms

Loss rate: 0.16%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-06-20 17:34:54

End at: 2018-06-20 17:35:24

Local clock offset: -0.048 ms

Remote clock offset: -0.15 ms

Below is generated by plot.py at 2018-06-20 21:28:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.41 Mbit/s

95th percentile per-packet one-way delay: 50.492 ms

Loss rate: 0.50%

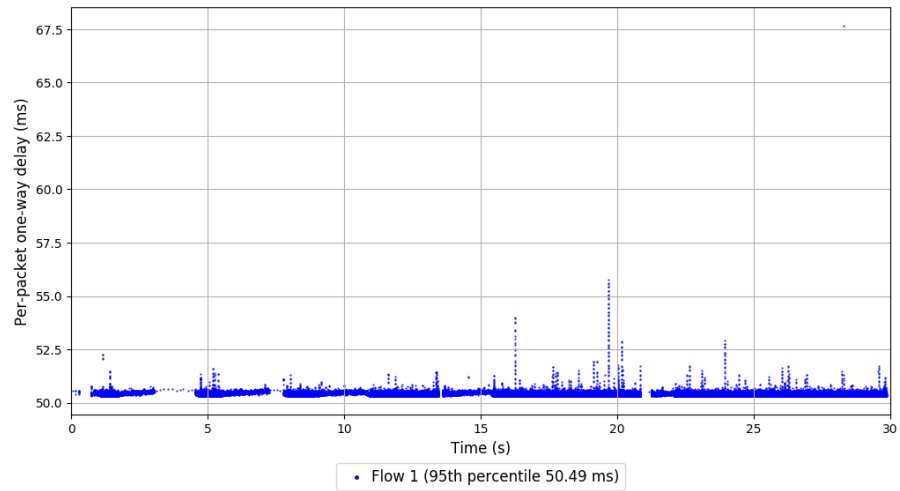
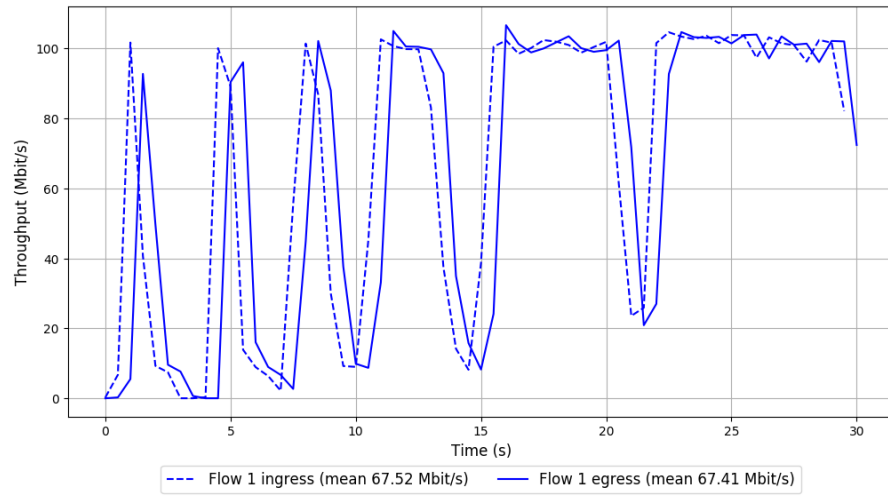
-- Flow 1:

Average throughput: 67.41 Mbit/s

95th percentile per-packet one-way delay: 50.492 ms

Loss rate: 0.50%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-06-20 17:55:25

End at: 2018-06-20 17:55:55

Local clock offset: -0.032 ms

Remote clock offset: 0.119 ms

Below is generated by plot.py at 2018-06-20 21:28:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.74 Mbit/s

95th percentile per-packet one-way delay: 53.814 ms

Loss rate: 0.52%

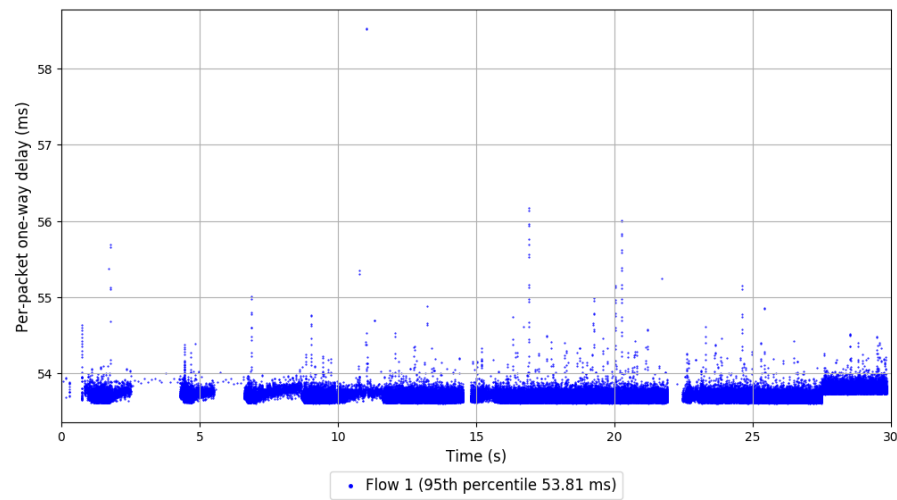
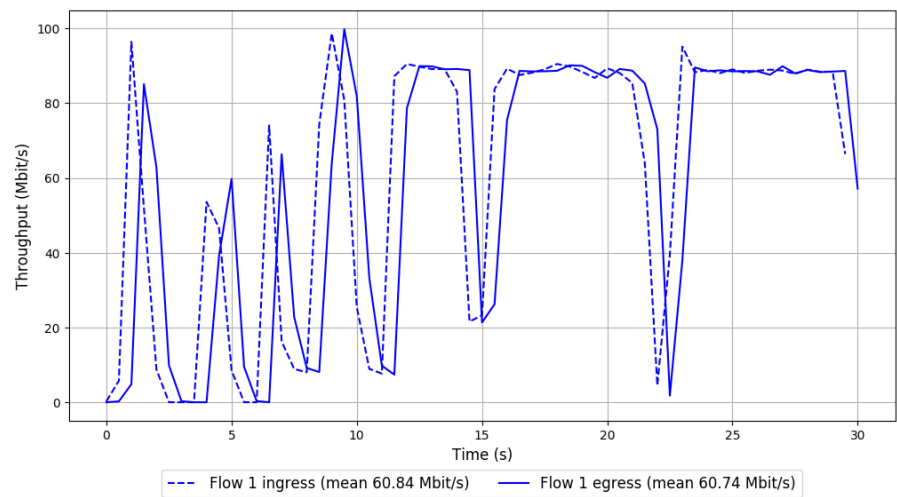
-- Flow 1:

Average throughput: 60.74 Mbit/s

95th percentile per-packet one-way delay: 53.814 ms

Loss rate: 0.52%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-06-20 18:15:45

End at: 2018-06-20 18:16:15

Local clock offset: 0.374 ms

Remote clock offset: 0.178 ms

Below is generated by plot.py at 2018-06-20 21:28:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.35 Mbit/s

95th percentile per-packet one-way delay: 50.672 ms

Loss rate: 0.51%

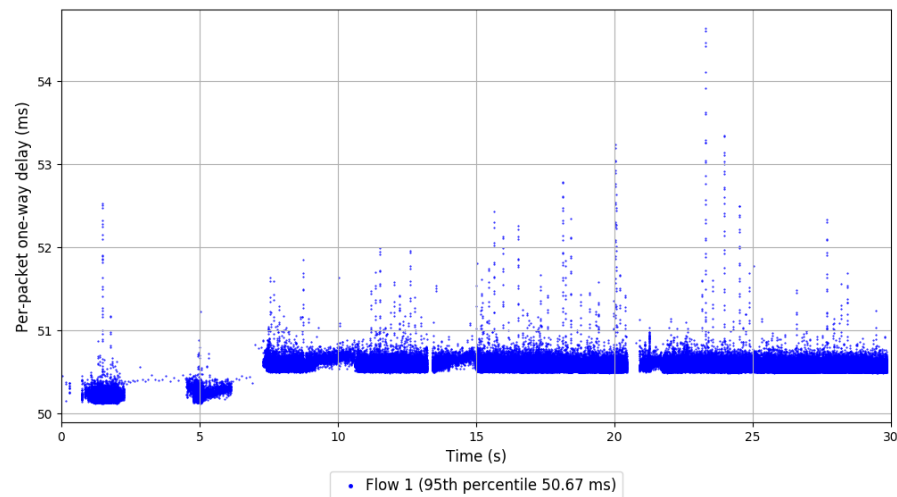
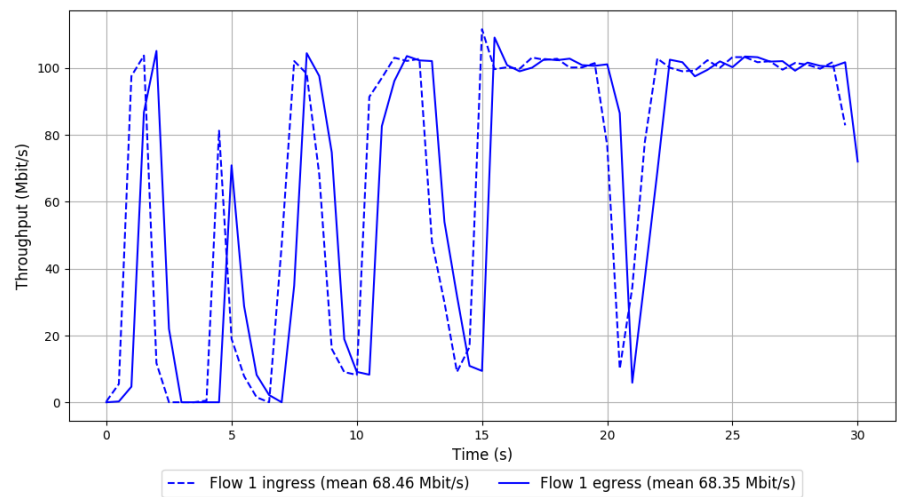
-- Flow 1:

Average throughput: 68.35 Mbit/s

95th percentile per-packet one-way delay: 50.672 ms

Loss rate: 0.51%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-06-20 18:36:31

End at: 2018-06-20 18:37:01

Local clock offset: -0.092 ms

Remote clock offset: 0.106 ms

Below is generated by plot.py at 2018-06-20 21:28:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.90 Mbit/s

95th percentile per-packet one-way delay: 53.419 ms

Loss rate: 0.49%

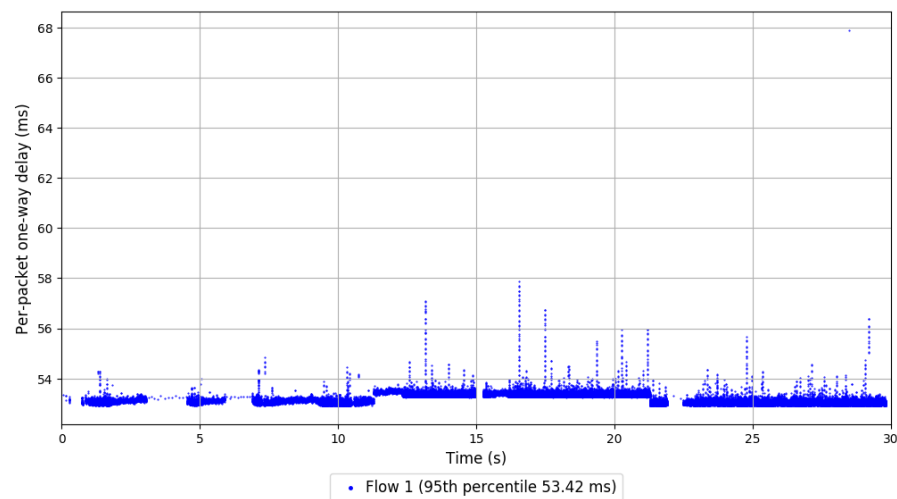
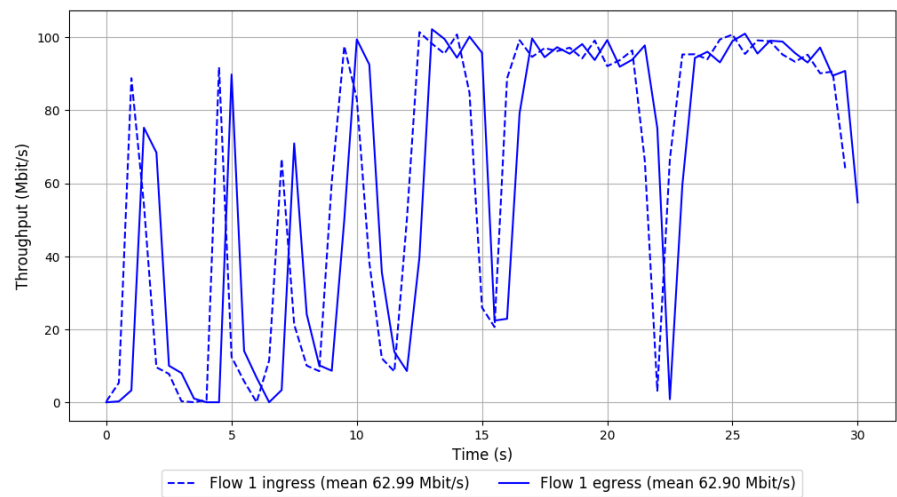
-- Flow 1:

Average throughput: 62.90 Mbit/s

95th percentile per-packet one-way delay: 53.419 ms

Loss rate: 0.49%

Run 6: Report of QUIC Cubic — Data Link

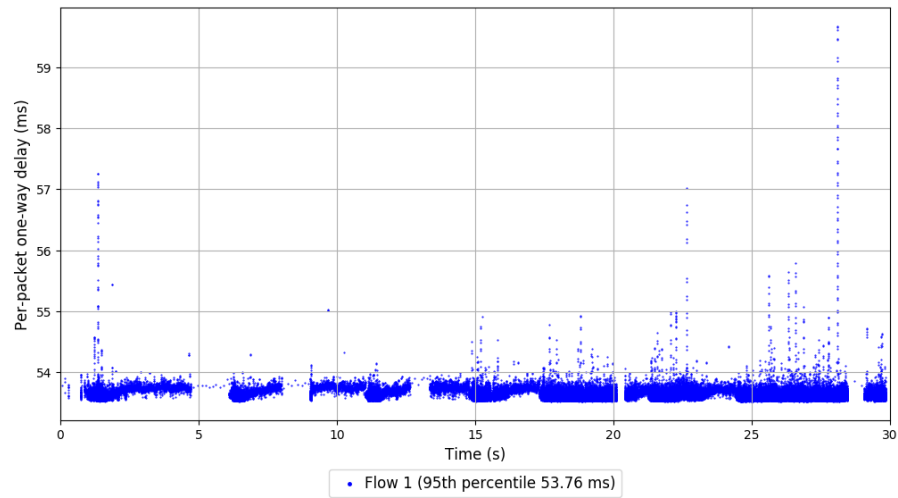
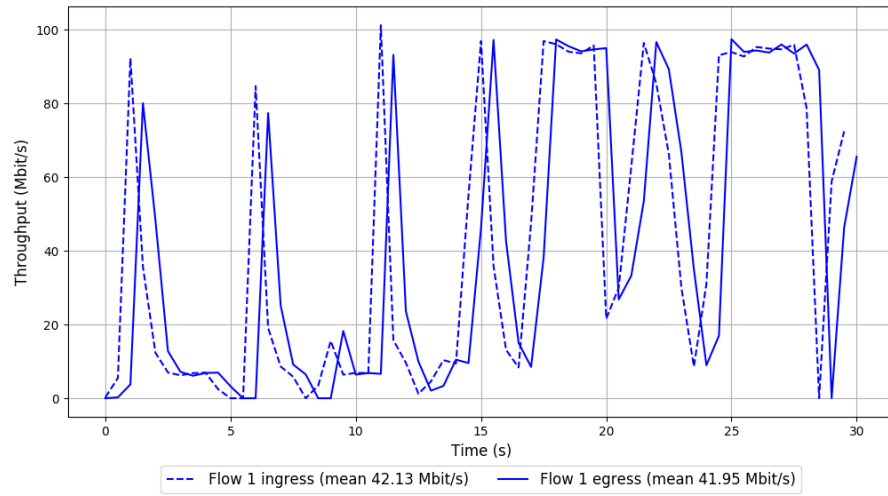


Run 7: Statistics of QUIC Cubic

Start at: 2018-06-20 18:56:45
End at: 2018-06-20 18:57:15
Local clock offset: -0.129 ms
Remote clock offset: -0.291 ms

Below is generated by plot.py at 2018-06-20 21:28:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 41.95 Mbit/s
95th percentile per-packet one-way delay: 53.763 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 41.95 Mbit/s
95th percentile per-packet one-way delay: 53.763 ms
Loss rate: 0.77%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-06-20 19:17:34

End at: 2018-06-20 19:18:04

Local clock offset: 0.02 ms

Remote clock offset: -0.117 ms

Below is generated by plot.py at 2018-06-20 21:28:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.61 Mbit/s

95th percentile per-packet one-way delay: 50.506 ms

Loss rate: 0.52%

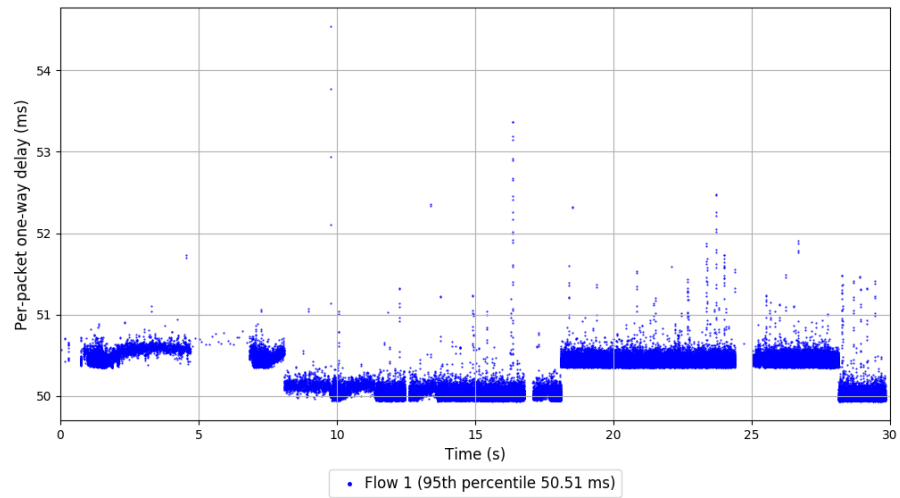
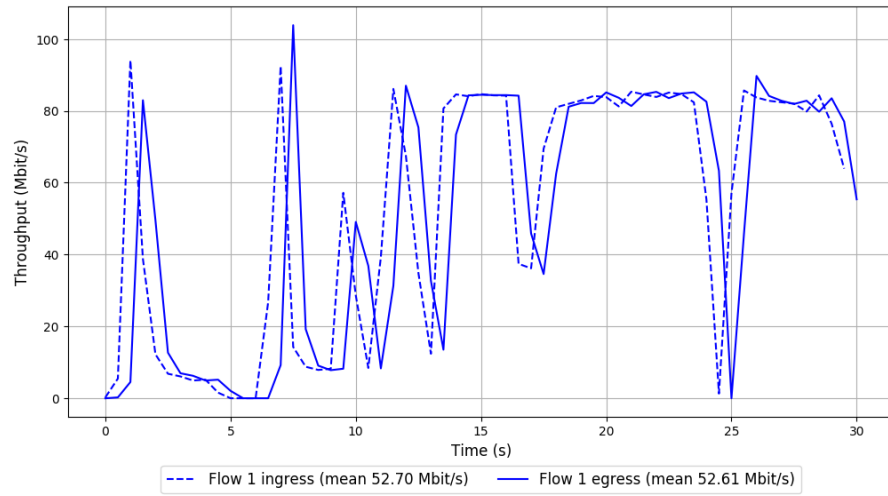
-- Flow 1:

Average throughput: 52.61 Mbit/s

95th percentile per-packet one-way delay: 50.506 ms

Loss rate: 0.52%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-06-20 19:38:24

End at: 2018-06-20 19:38:54

Local clock offset: 0.202 ms

Remote clock offset: -1.309 ms

Below is generated by plot.py at 2018-06-20 21:28:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.54 Mbit/s

95th percentile per-packet one-way delay: 55.294 ms

Loss rate: 0.56%

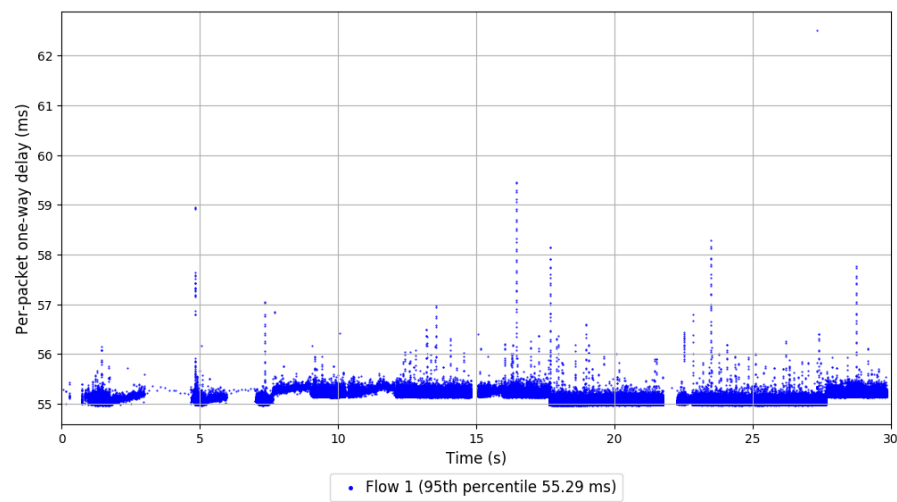
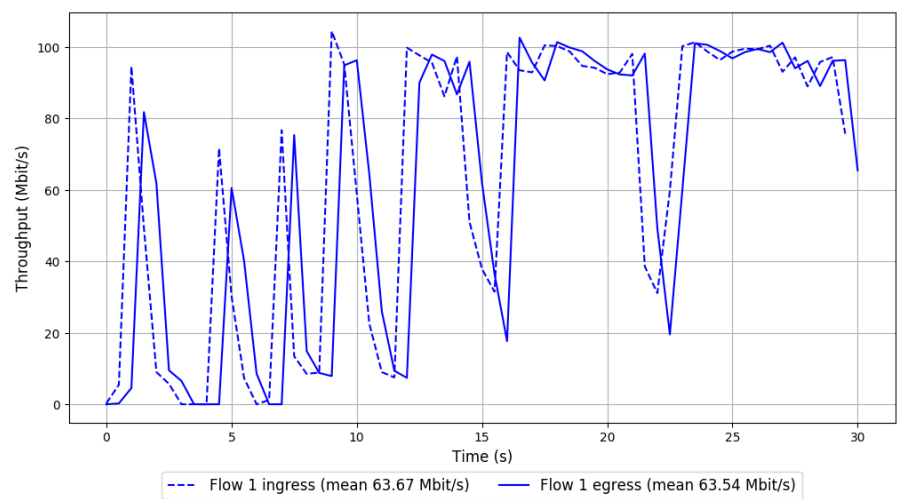
-- Flow 1:

Average throughput: 63.54 Mbit/s

95th percentile per-packet one-way delay: 55.294 ms

Loss rate: 0.56%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-06-20 19:58:56

End at: 2018-06-20 19:59:26

Local clock offset: -0.034 ms

Remote clock offset: 0.101 ms

Below is generated by plot.py at 2018-06-20 21:28:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.75 Mbit/s

95th percentile per-packet one-way delay: 53.828 ms

Loss rate: 0.51%

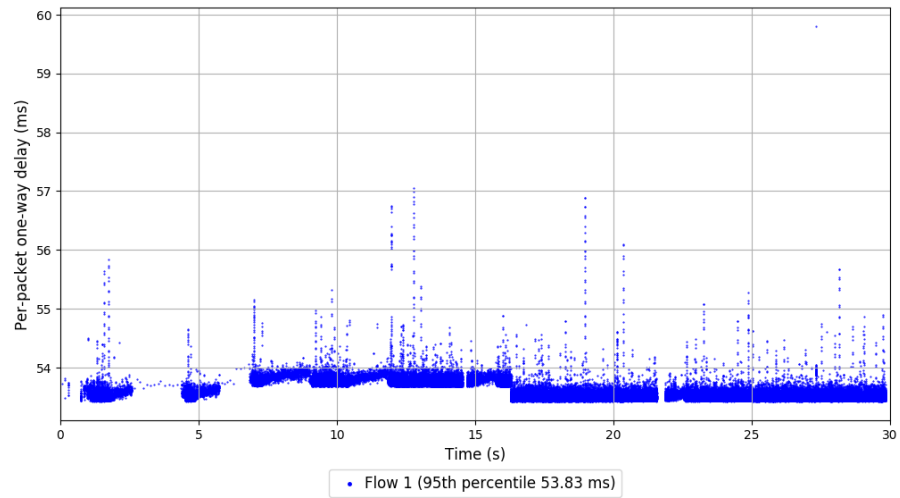
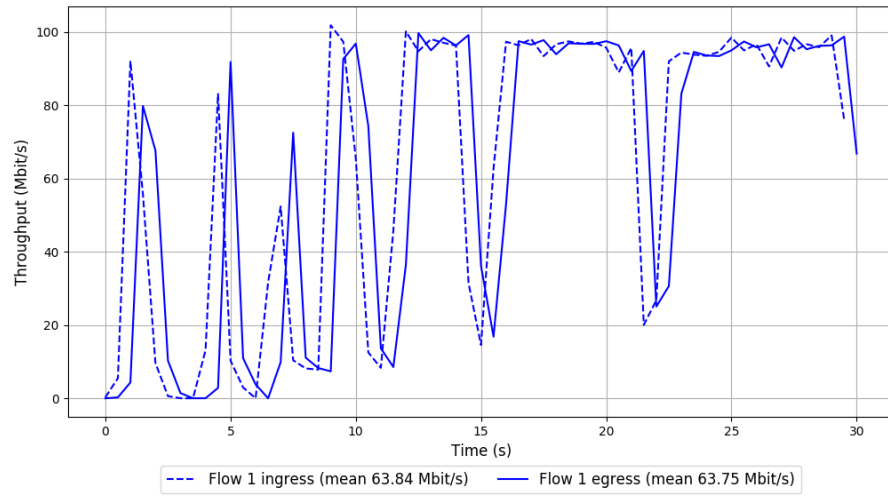
-- Flow 1:

Average throughput: 63.75 Mbit/s

95th percentile per-packet one-way delay: 53.828 ms

Loss rate: 0.51%

Run 10: Report of QUIC Cubic — Data Link

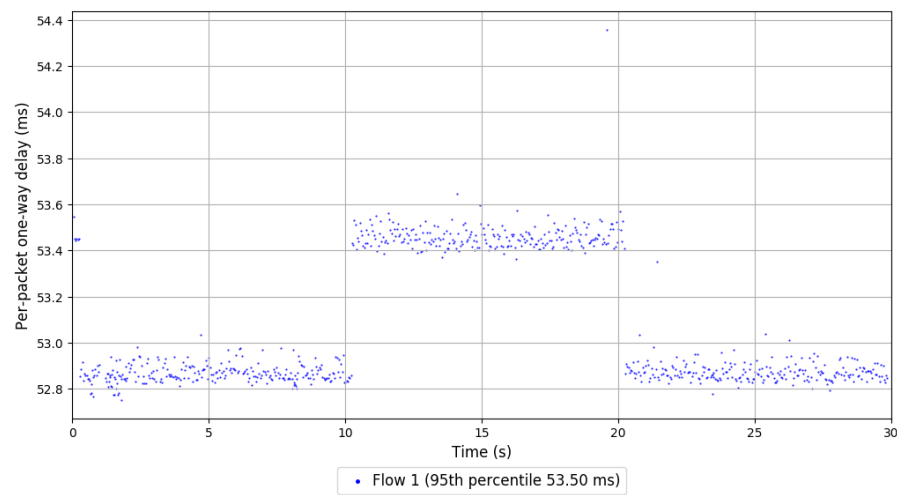
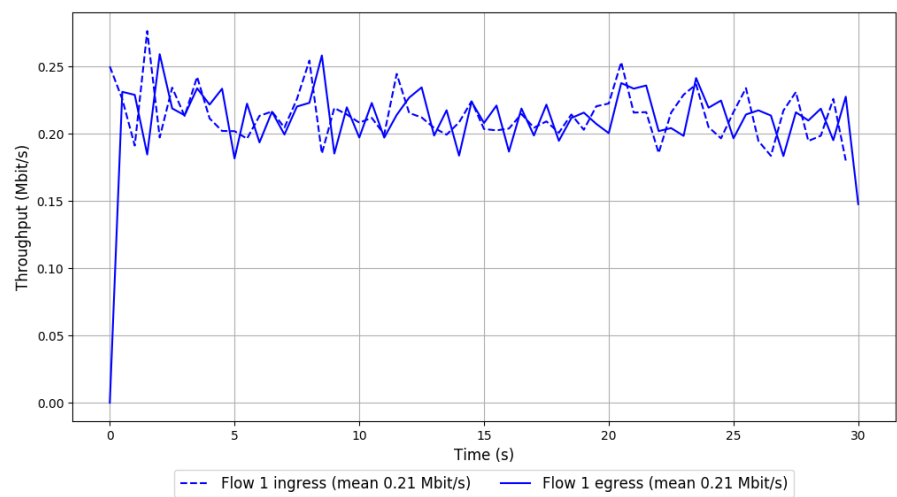


```
Run 1: Statistics of SCReAM

Start at: 2018-06-20 16:52:32
End at: 2018-06-20 16:53:02
Local clock offset: -0.26 ms
Remote clock offset: 0.089 ms

# Below is generated by plot.py at 2018-06-20 21:28:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.504 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.504 ms
Loss rate: 0.38%
```

Run 1: Report of SReAM — Data Link

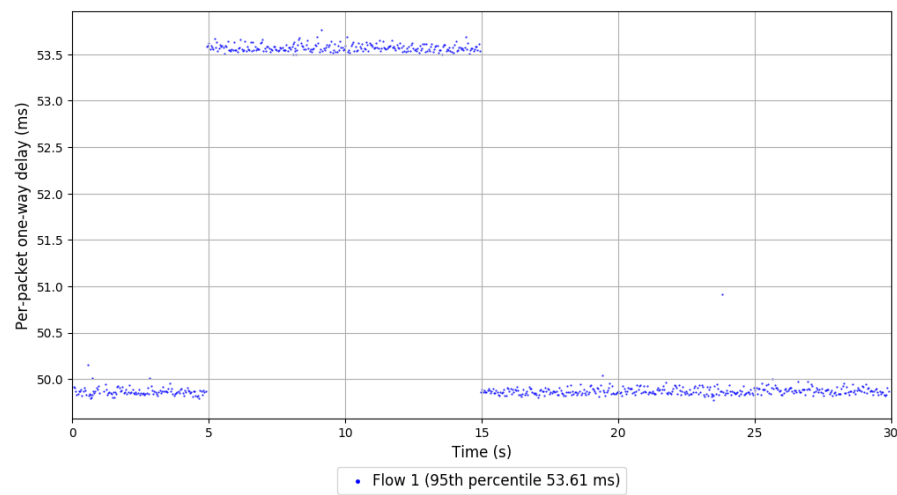
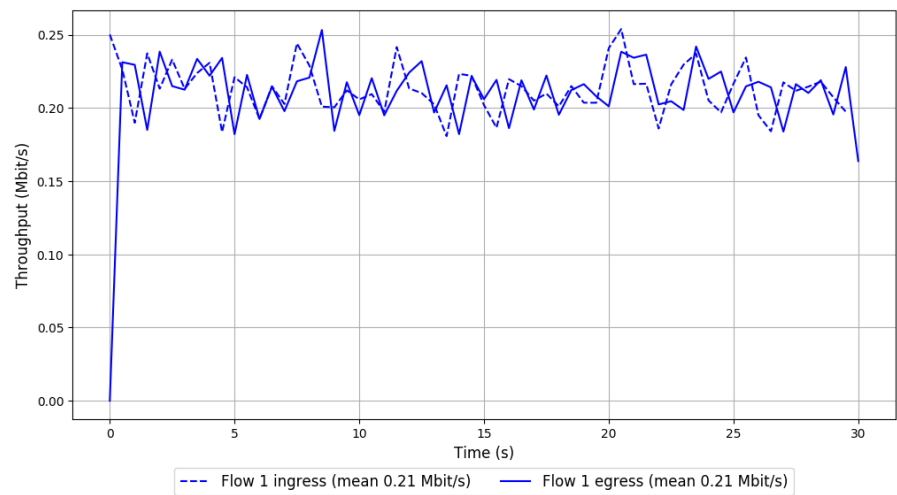


Run 2: Statistics of SReAM

Start at: 2018-06-20 17:12:57
End at: 2018-06-20 17:13:27
Local clock offset: -0.2 ms
Remote clock offset: -0.048 ms

Below is generated by plot.py at 2018-06-20 21:28:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.612 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.612 ms
Loss rate: 0.39%

Run 2: Report of SReAM — Data Link

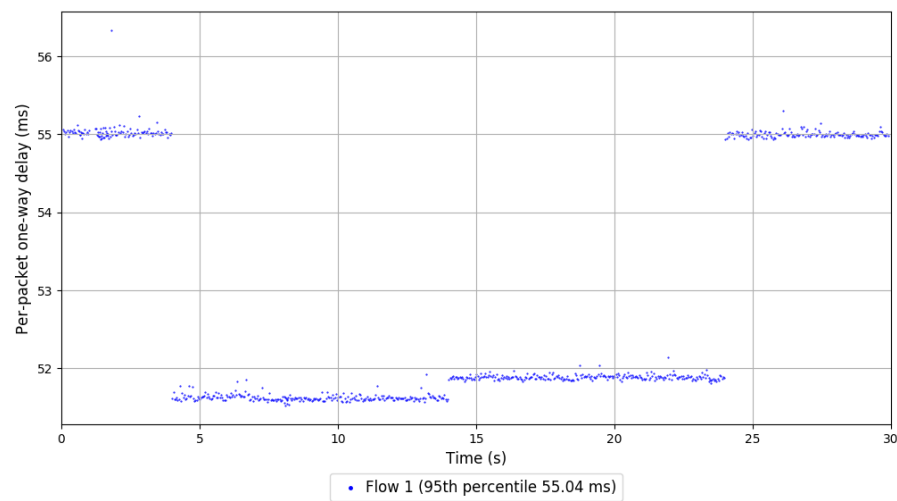
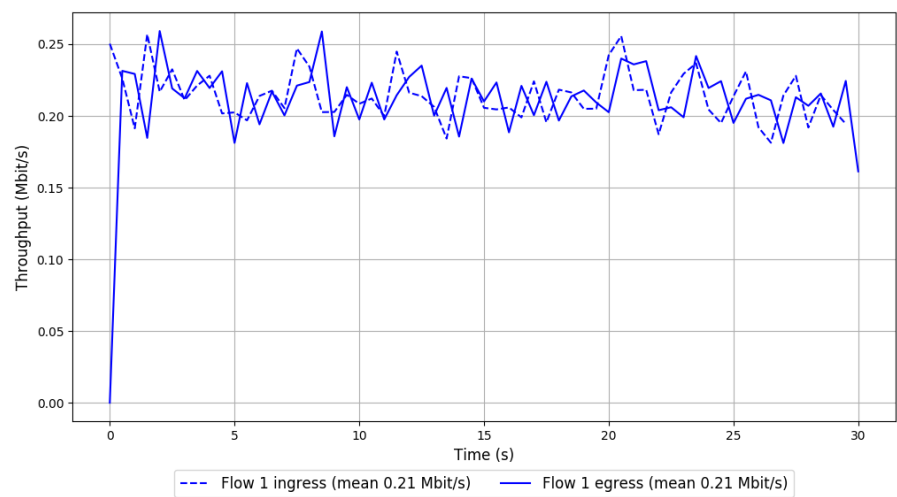


Run 3: Statistics of SCReAM

Start at: 2018-06-20 17:33:48
End at: 2018-06-20 17:34:18
Local clock offset: -0.175 ms
Remote clock offset: -1.311 ms

Below is generated by plot.py at 2018-06-20 21:28:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 55.042 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 55.042 ms
Loss rate: 0.38%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-06-20 17:54:19

End at: 2018-06-20 17:54:49

Local clock offset: -0.055 ms

Remote clock offset: 0.351 ms

Below is generated by plot.py at 2018-06-20 21:28:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.528 ms

Loss rate: 0.39%

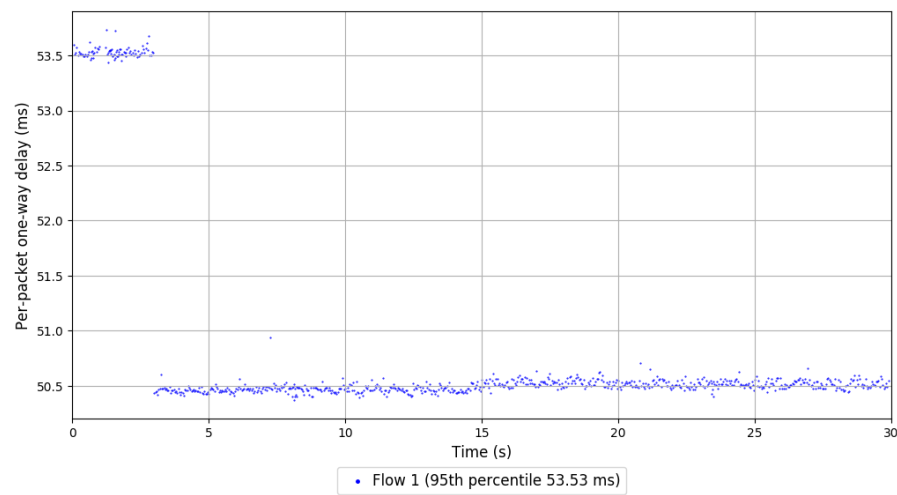
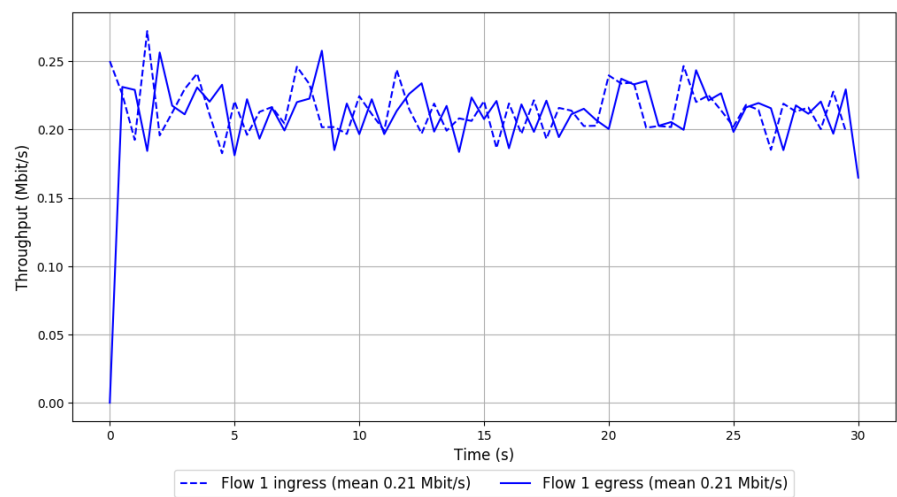
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.528 ms

Loss rate: 0.39%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-06-20 18:14:40

End at: 2018-06-20 18:15:10

Local clock offset: 0.139 ms

Remote clock offset: 0.056 ms

Below is generated by plot.py at 2018-06-20 21:28:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.008 ms

Loss rate: 0.38%

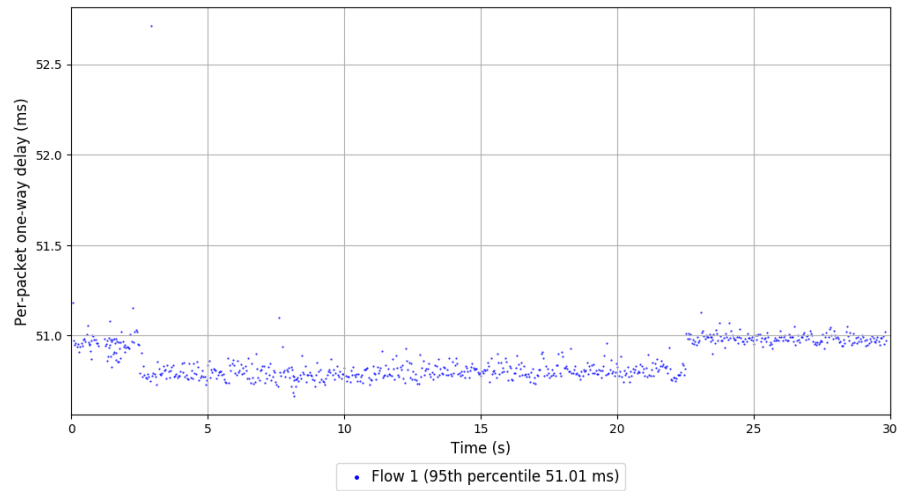
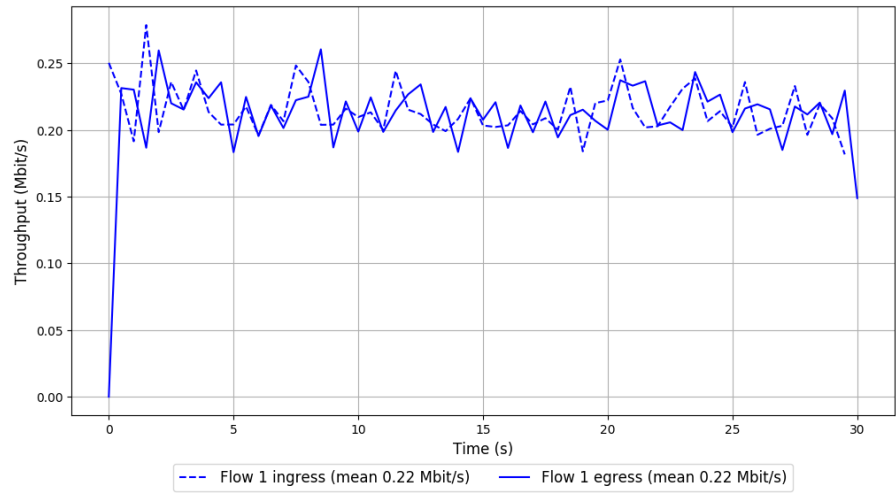
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.008 ms

Loss rate: 0.38%

Run 5: Report of SReAM — Data Link

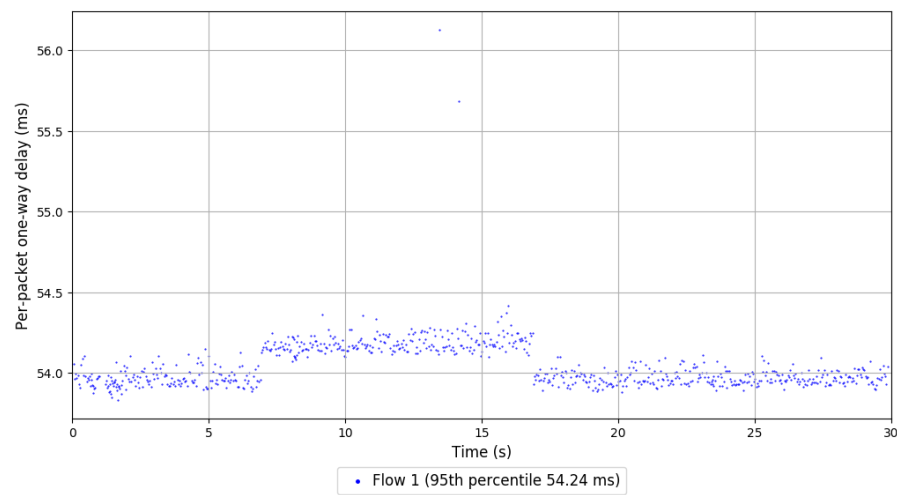
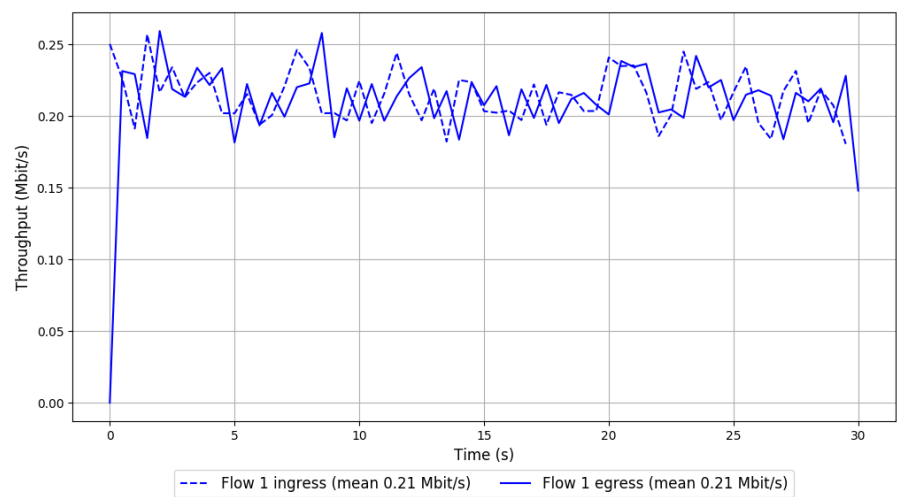


Run 6: Statistics of SCReAM

Start at: 2018-06-20 18:35:25
End at: 2018-06-20 18:35:55
Local clock offset: 0.032 ms
Remote clock offset: -0.229 ms

Below is generated by plot.py at 2018-06-20 21:28:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.244 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.244 ms
Loss rate: 0.38%

Run 6: Report of SReAM — Data Link

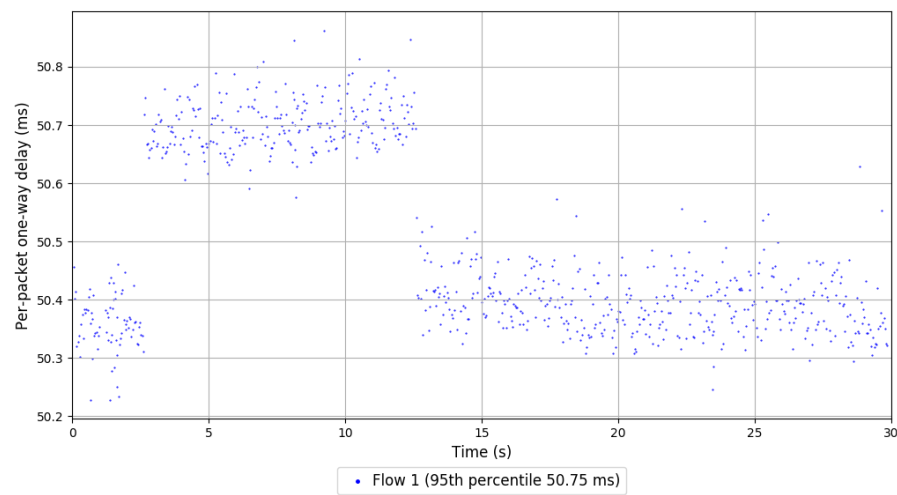
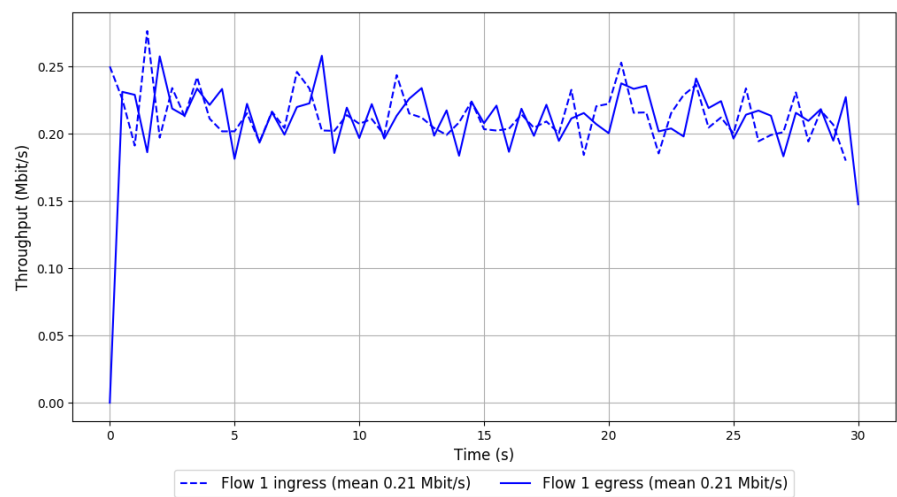


Run 7: Statistics of SCReAM

Start at: 2018-06-20 18:55:39
End at: 2018-06-20 18:56:09
Local clock offset: -0.215 ms
Remote clock offset: -0.347 ms

Below is generated by plot.py at 2018-06-20 21:28:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.748 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.748 ms
Loss rate: 0.38%

Run 7: Report of SReAM — Data Link

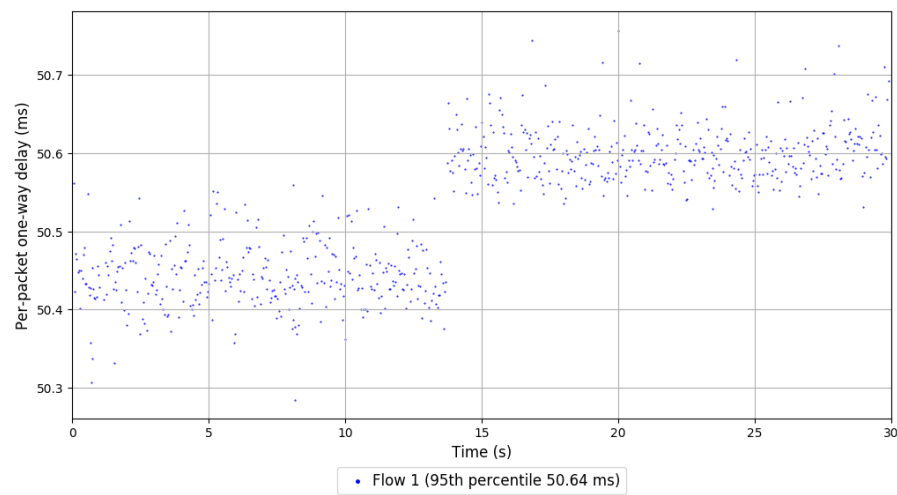
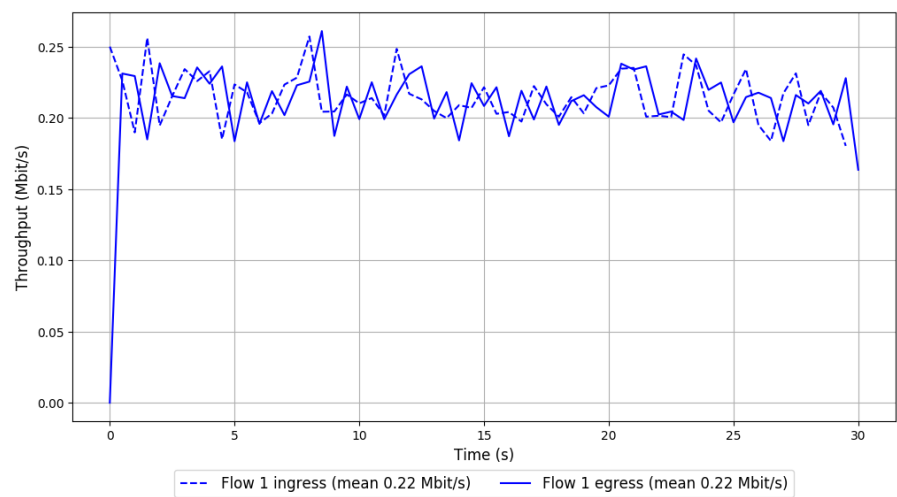


Run 8: Statistics of SCReAM

Start at: 2018-06-20 19:16:28
End at: 2018-06-20 19:16:58
Local clock offset: 0.169 ms
Remote clock offset: -0.124 ms

Below is generated by plot.py at 2018-06-20 21:28:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.642 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.642 ms
Loss rate: 0.26%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-06-20 19:37:19

End at: 2018-06-20 19:37:49

Local clock offset: 0.179 ms

Remote clock offset: 0.297 ms

Below is generated by plot.py at 2018-06-20 21:28:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.704 ms

Loss rate: 0.26%

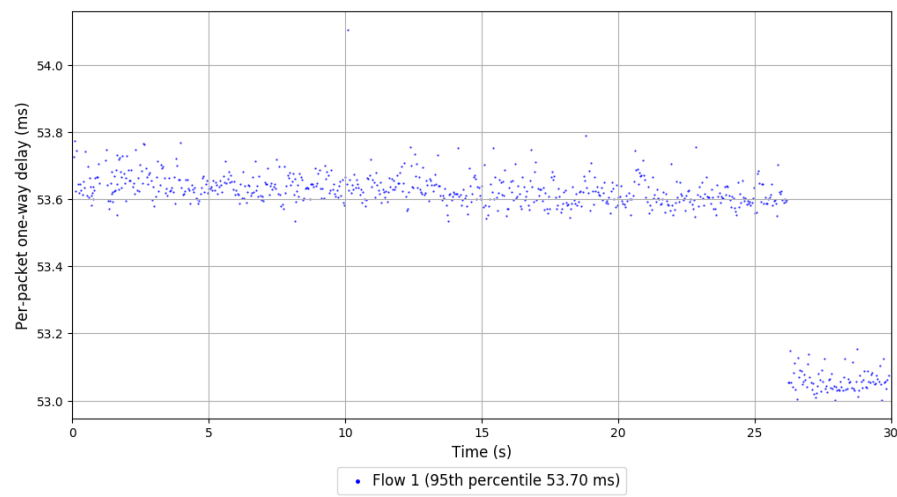
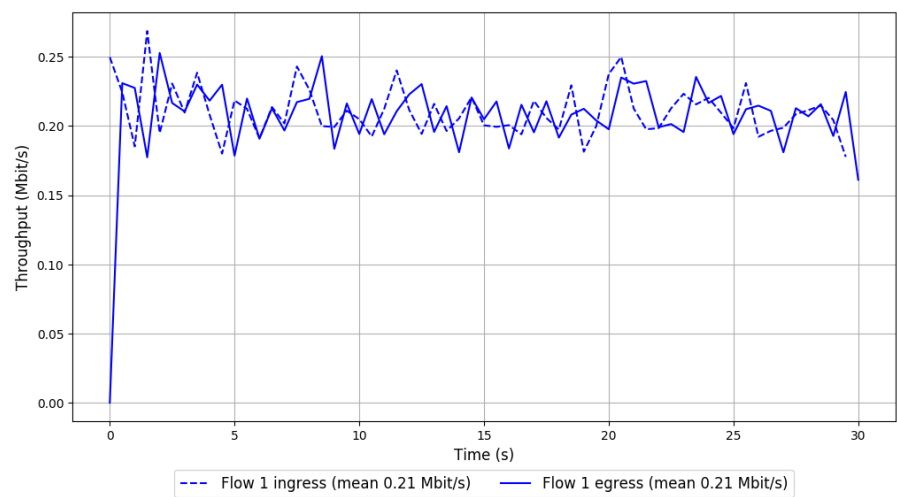
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.704 ms

Loss rate: 0.26%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-06-20 19:57:50

End at: 2018-06-20 19:58:20

Local clock offset: -0.176 ms

Remote clock offset: -0.11 ms

Below is generated by plot.py at 2018-06-20 21:28:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.934 ms

Loss rate: 0.38%

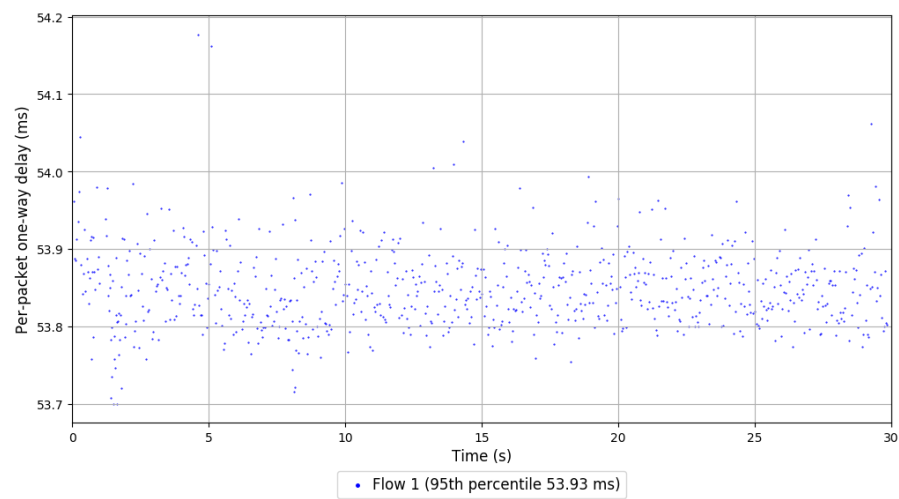
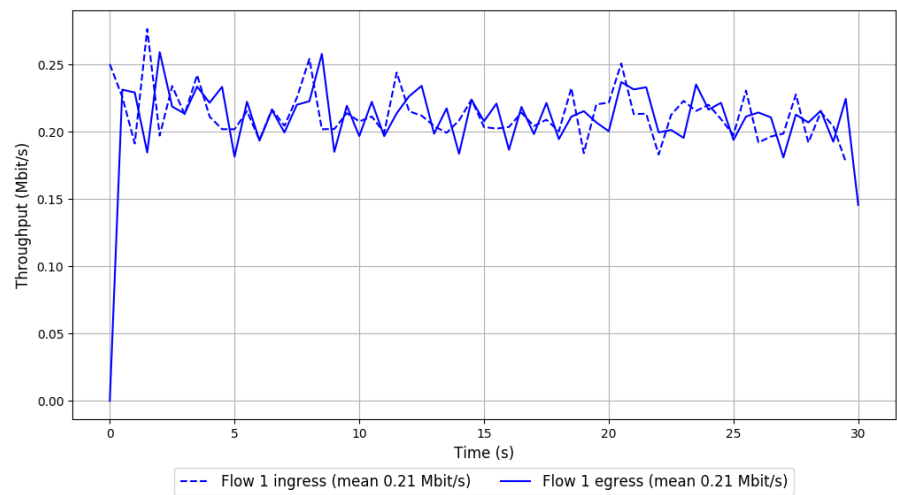
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.934 ms

Loss rate: 0.38%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-06-20 16:41:46

End at: 2018-06-20 16:42:16

Local clock offset: -0.226 ms

Remote clock offset: -1.27 ms

Below is generated by plot.py at 2018-06-20 21:28:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.14 Mbit/s

95th percentile per-packet one-way delay: 55.886 ms

Loss rate: 0.23%

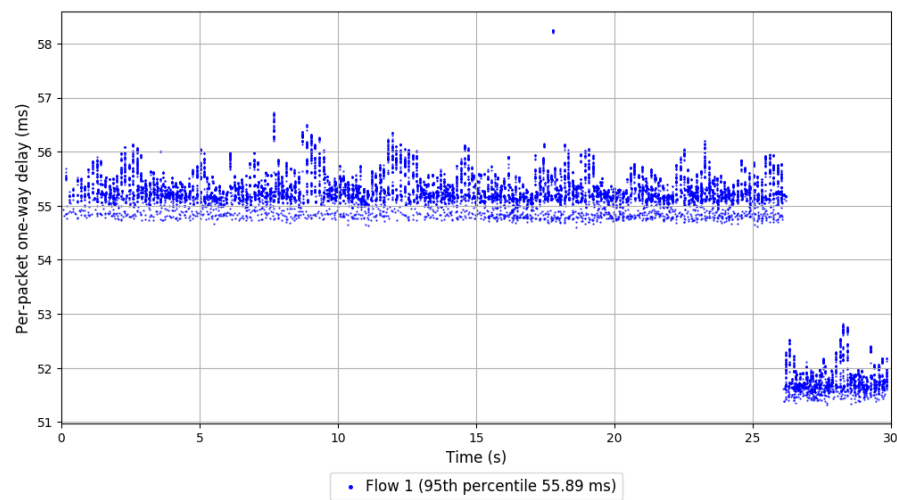
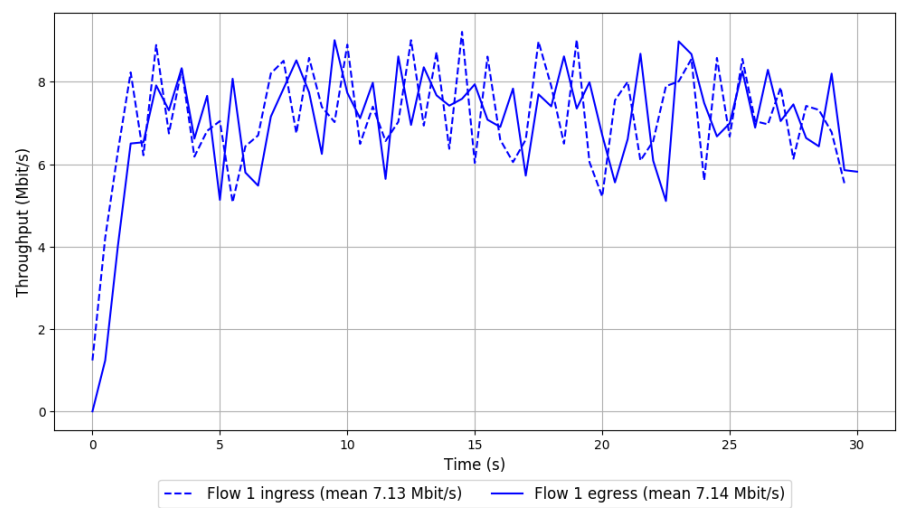
-- Flow 1:

Average throughput: 7.14 Mbit/s

95th percentile per-packet one-way delay: 55.886 ms

Loss rate: 0.23%

Run 1: Report of Sprout — Data Link

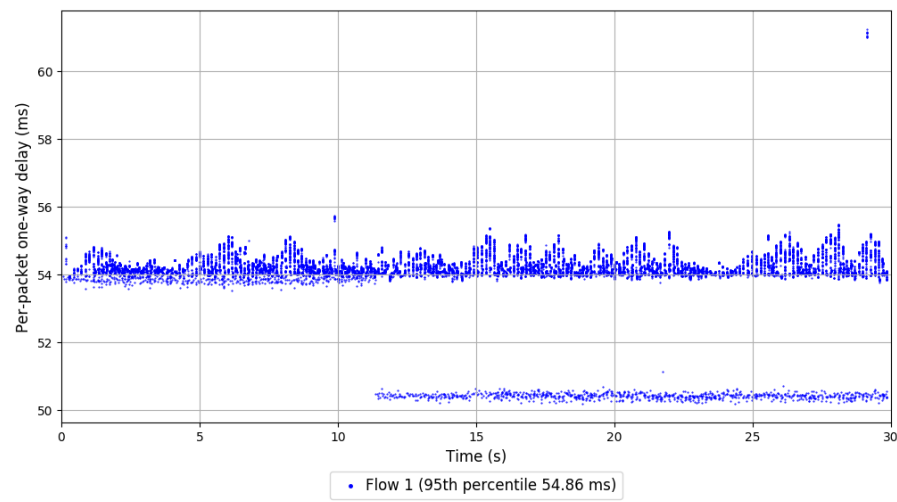
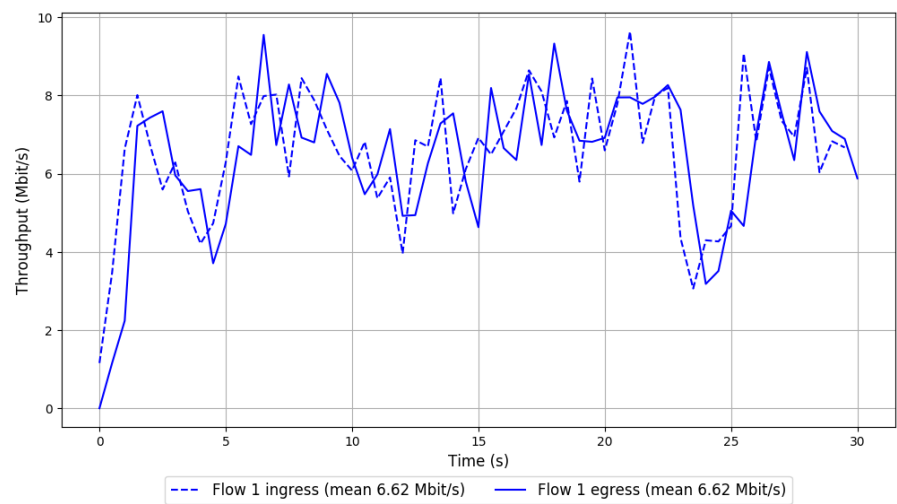


Run 2: Statistics of Sprout

Start at: 2018-06-20 17:02:21
End at: 2018-06-20 17:02:51
Local clock offset: -0.083 ms
Remote clock offset: -0.205 ms

Below is generated by plot.py at 2018-06-20 21:28:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.62 Mbit/s
95th percentile per-packet one-way delay: 54.863 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 6.62 Mbit/s
95th percentile per-packet one-way delay: 54.863 ms
Loss rate: 0.20%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-06-20 17:23:01

End at: 2018-06-20 17:23:31

Local clock offset: 0.212 ms

Remote clock offset: 0.09 ms

Below is generated by plot.py at 2018-06-20 21:28:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.98 Mbit/s

95th percentile per-packet one-way delay: 54.802 ms

Loss rate: 0.10%

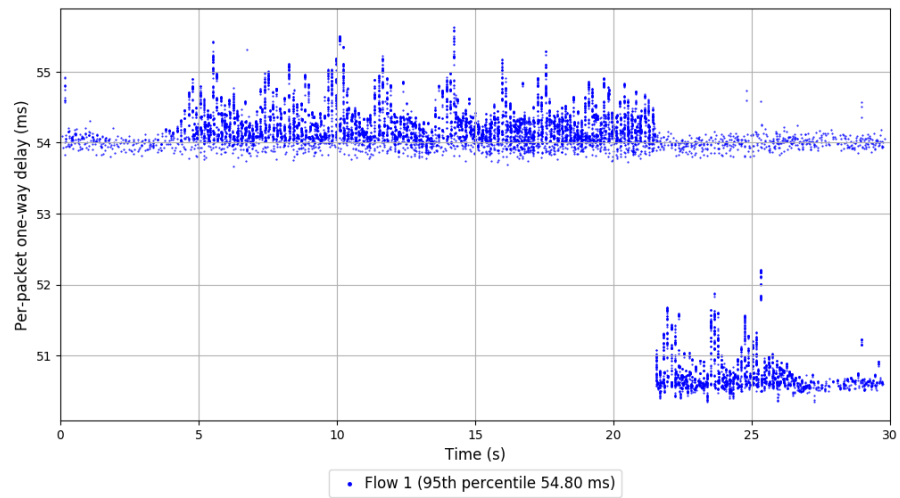
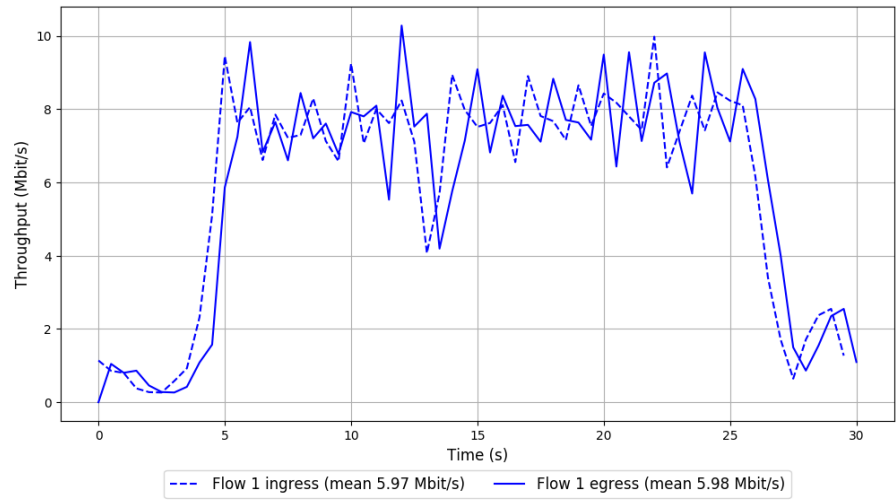
-- Flow 1:

Average throughput: 5.98 Mbit/s

95th percentile per-packet one-way delay: 54.802 ms

Loss rate: 0.10%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-06-20 17:43:52

End at: 2018-06-20 17:44:22

Local clock offset: -0.053 ms

Remote clock offset: 1.219 ms

Below is generated by plot.py at 2018-06-20 21:28:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.13 Mbit/s

95th percentile per-packet one-way delay: 53.415 ms

Loss rate: 0.12%

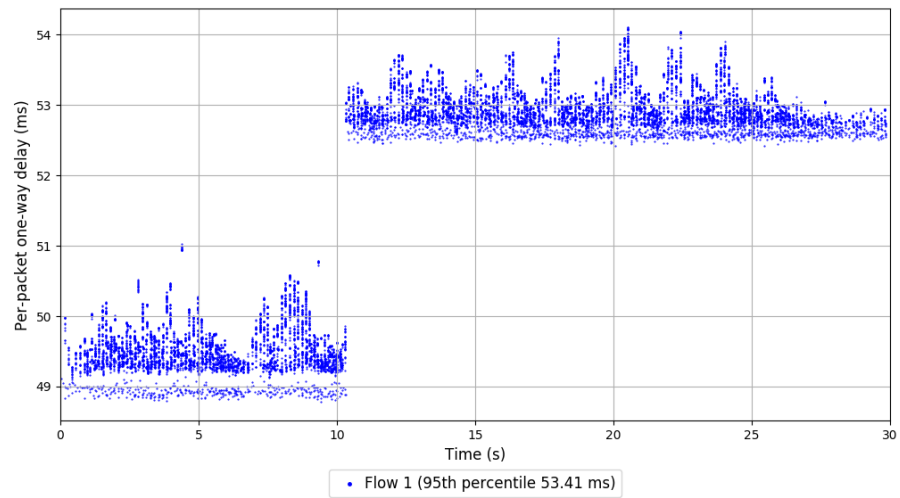
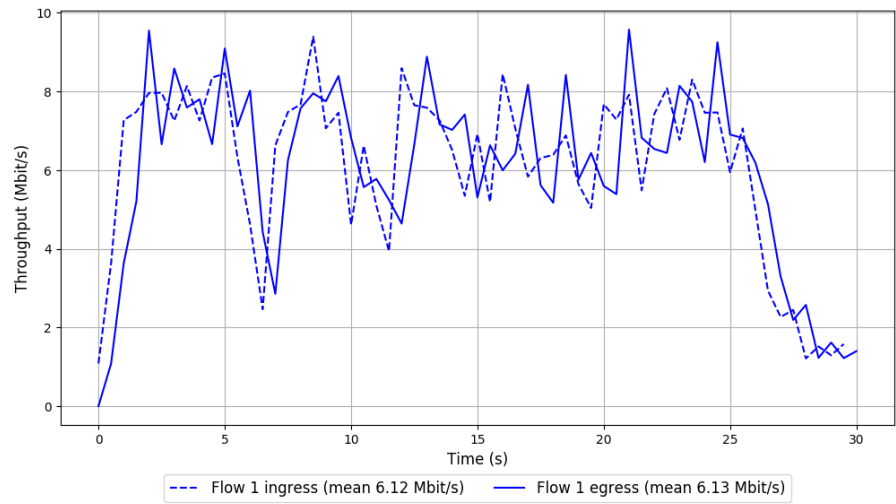
-- Flow 1:

Average throughput: 6.13 Mbit/s

95th percentile per-packet one-way delay: 53.415 ms

Loss rate: 0.12%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-06-20 18:04:07

End at: 2018-06-20 18:04:37

Local clock offset: -0.15 ms

Remote clock offset: 0.063 ms

Below is generated by plot.py at 2018-06-20 21:28:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.63 Mbit/s

95th percentile per-packet one-way delay: 54.592 ms

Loss rate: 0.44%

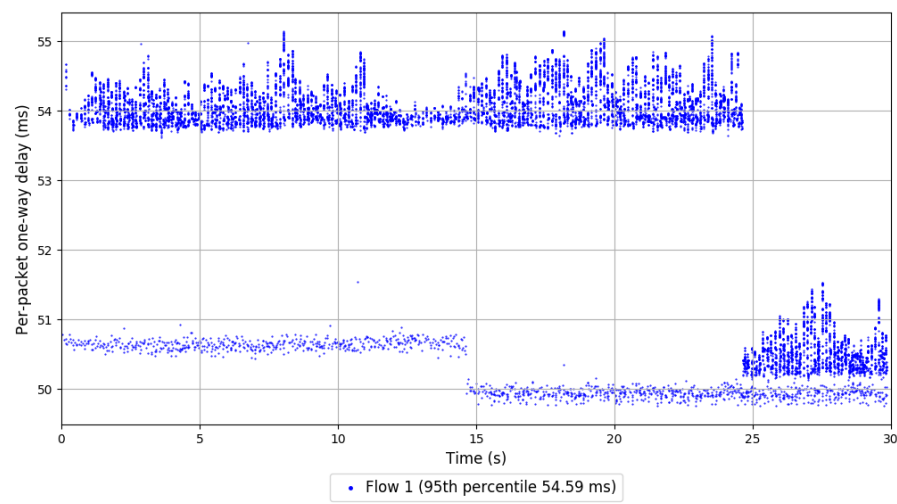
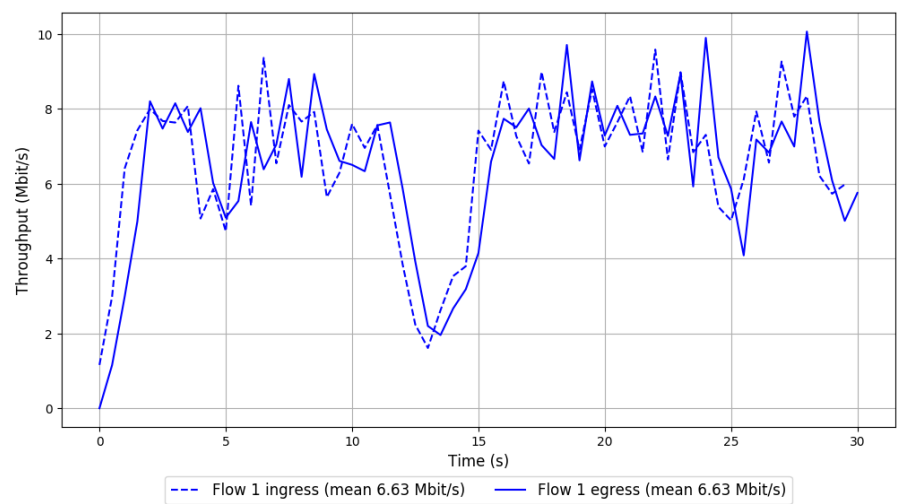
-- Flow 1:

Average throughput: 6.63 Mbit/s

95th percentile per-packet one-way delay: 54.592 ms

Loss rate: 0.44%

Run 5: Report of Sprout — Data Link

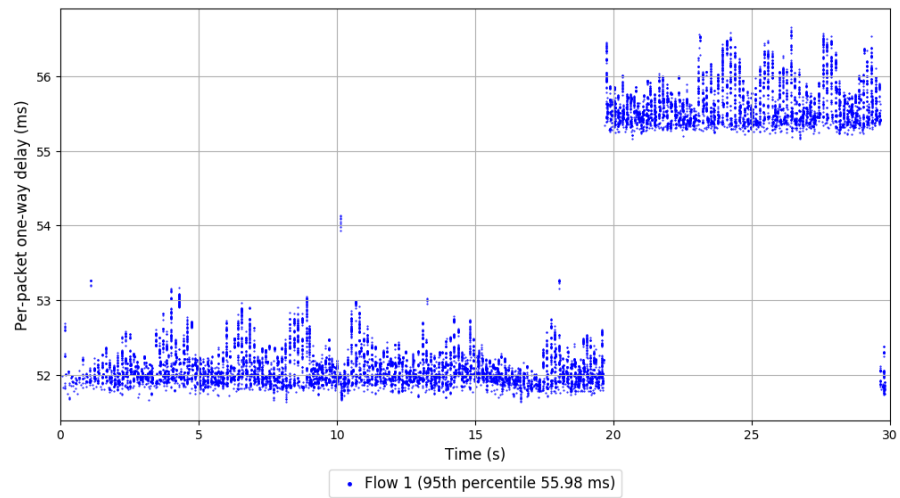
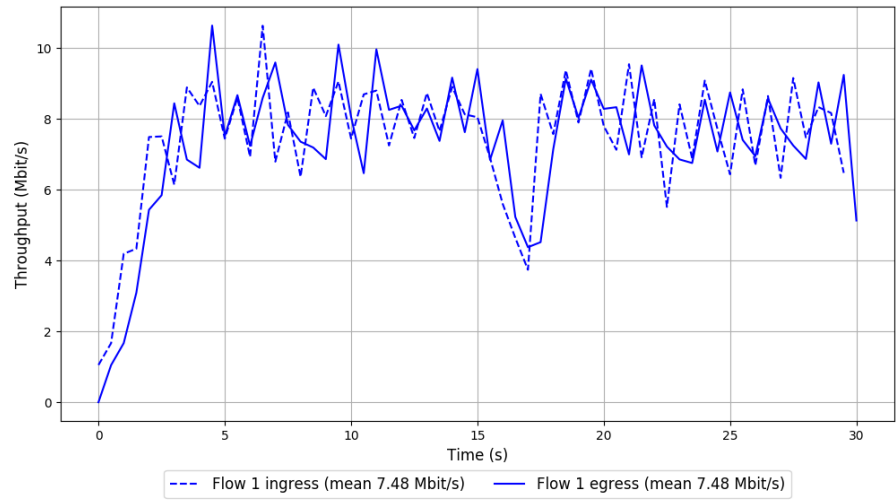


Run 6: Statistics of Sprout

Start at: 2018-06-20 18:24:42
End at: 2018-06-20 18:25:12
Local clock offset: 0.128 ms
Remote clock offset: -1.159 ms

Below is generated by plot.py at 2018-06-20 21:28:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.48 Mbit/s
95th percentile per-packet one-way delay: 55.983 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 7.48 Mbit/s
95th percentile per-packet one-way delay: 55.983 ms
Loss rate: 0.45%

Run 6: Report of Sprout — Data Link

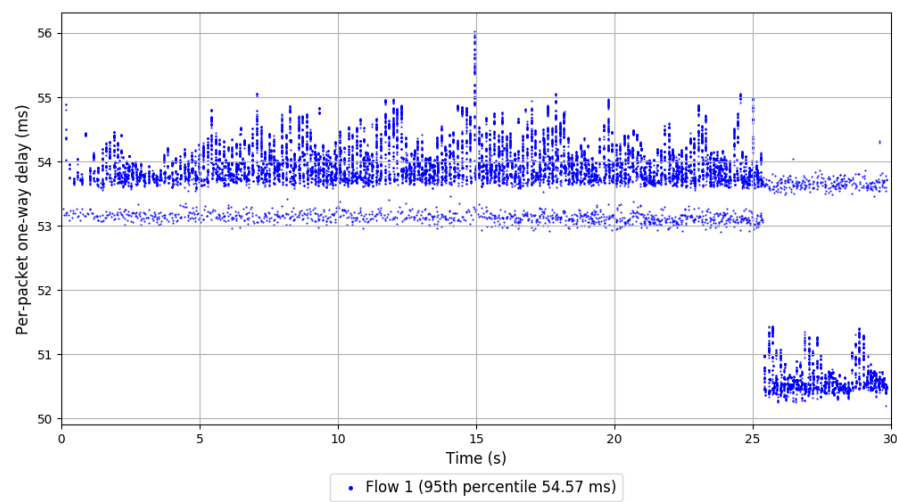
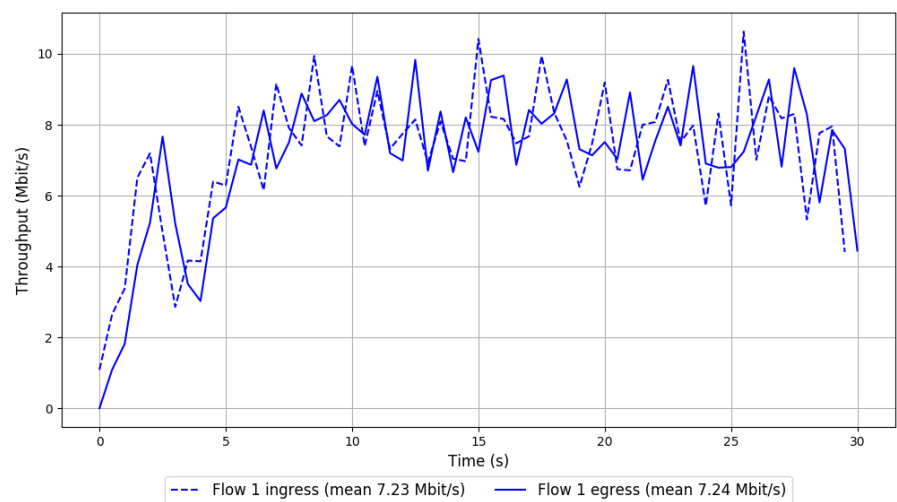


Run 7: Statistics of Sprout

Start at: 2018-06-20 18:45:17
End at: 2018-06-20 18:45:47
Local clock offset: -0.042 ms
Remote clock offset: -0.144 ms

Below is generated by plot.py at 2018-06-20 21:28:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.24 Mbit/s
95th percentile per-packet one-way delay: 54.567 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 7.24 Mbit/s
95th percentile per-packet one-way delay: 54.567 ms
Loss rate: 0.17%

Run 7: Report of Sprout — Data Link

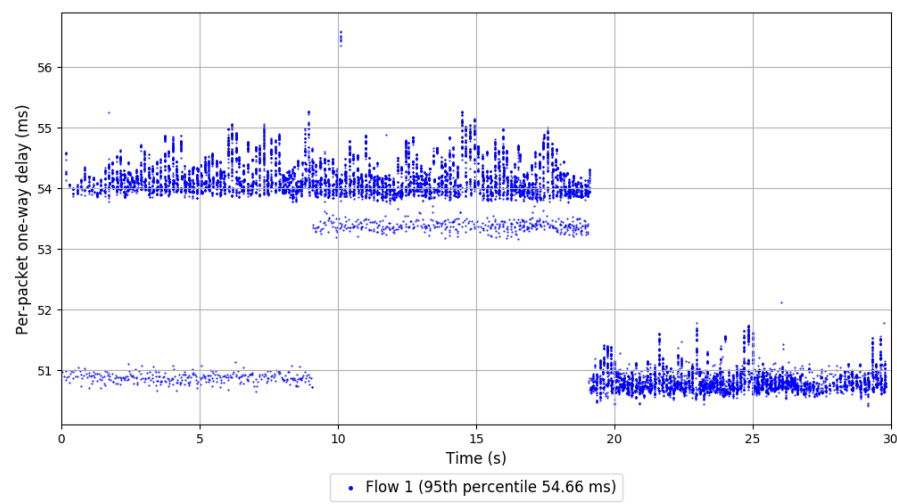
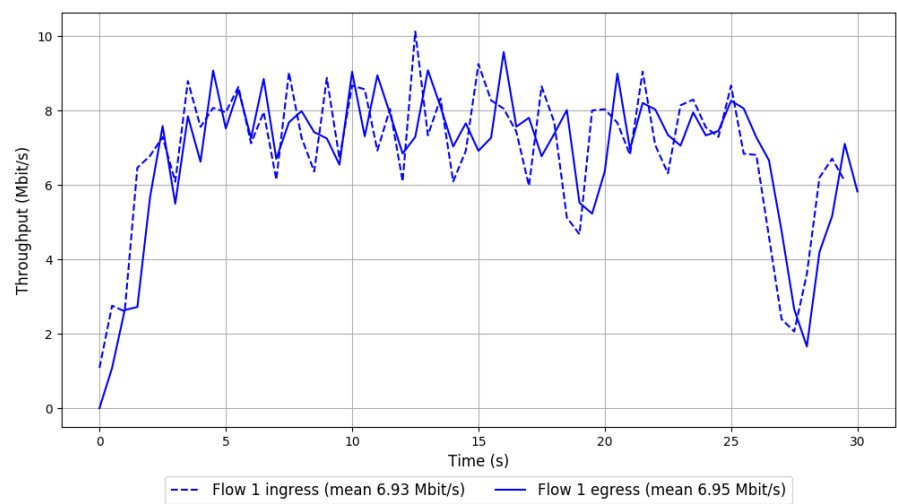


Run 8: Statistics of Sprout

Start at: 2018-06-20 19:05:53
End at: 2018-06-20 19:06:23
Local clock offset: -0.095 ms
Remote clock offset: -0.441 ms

Below is generated by plot.py at 2018-06-20 21:28:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.95 Mbit/s
95th percentile per-packet one-way delay: 54.661 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 6.95 Mbit/s
95th percentile per-packet one-way delay: 54.661 ms
Loss rate: 0.22%

Run 8: Report of Sprout — Data Link

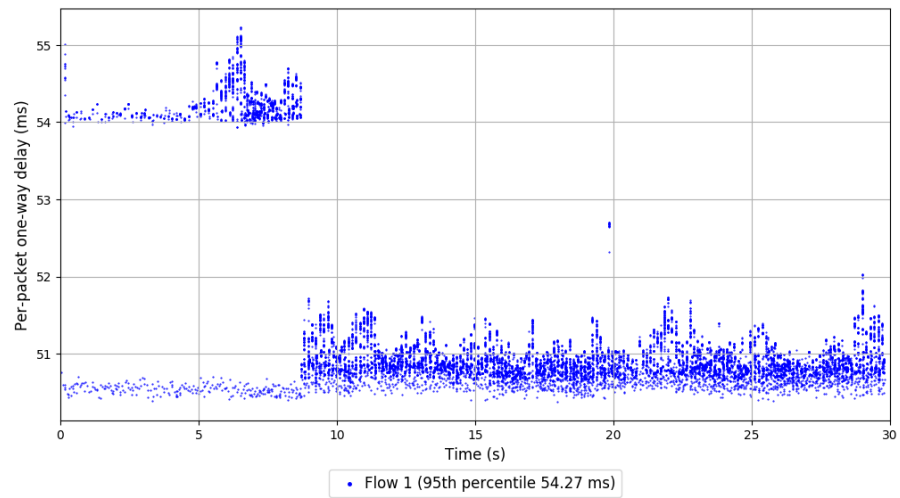
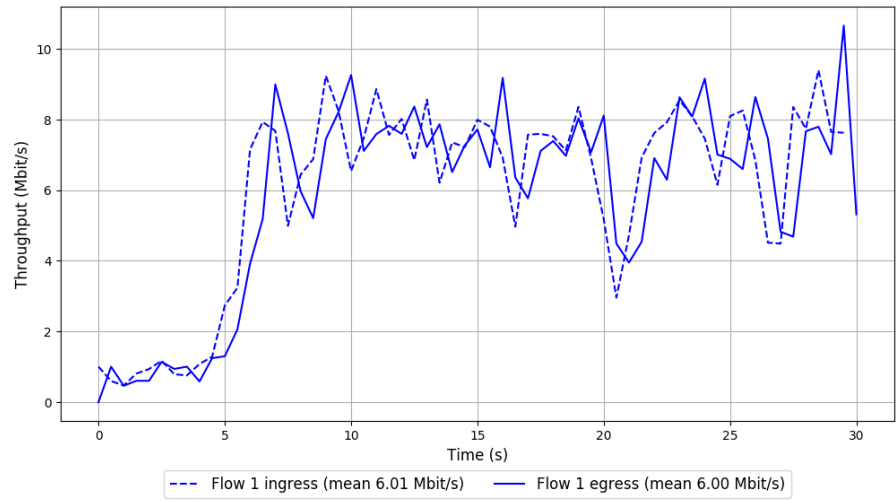


Run 9: Statistics of Sprout

Start at: 2018-06-20 19:26:43
End at: 2018-06-20 19:27:13
Local clock offset: 0.083 ms
Remote clock offset: -0.215 ms

Below is generated by plot.py at 2018-06-20 21:28:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.00 Mbit/s
95th percentile per-packet one-way delay: 54.265 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 6.00 Mbit/s
95th percentile per-packet one-way delay: 54.265 ms
Loss rate: 0.64%

Run 9: Report of Sprout — Data Link

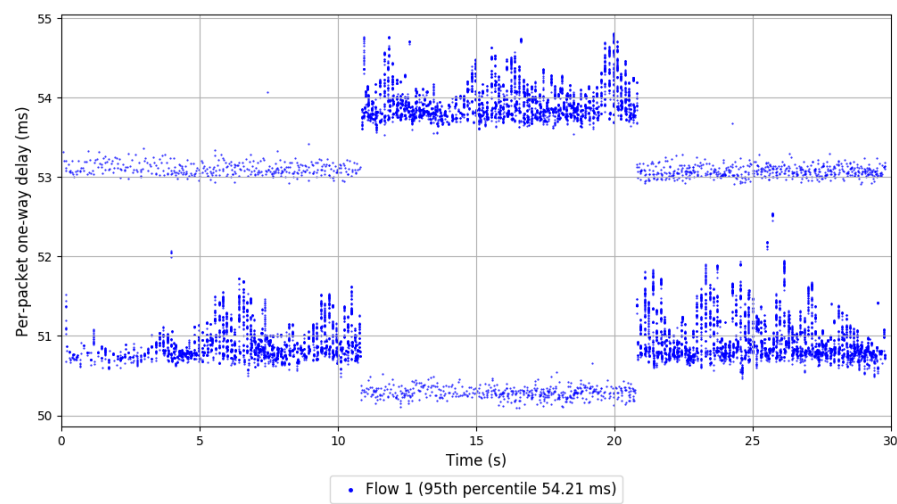
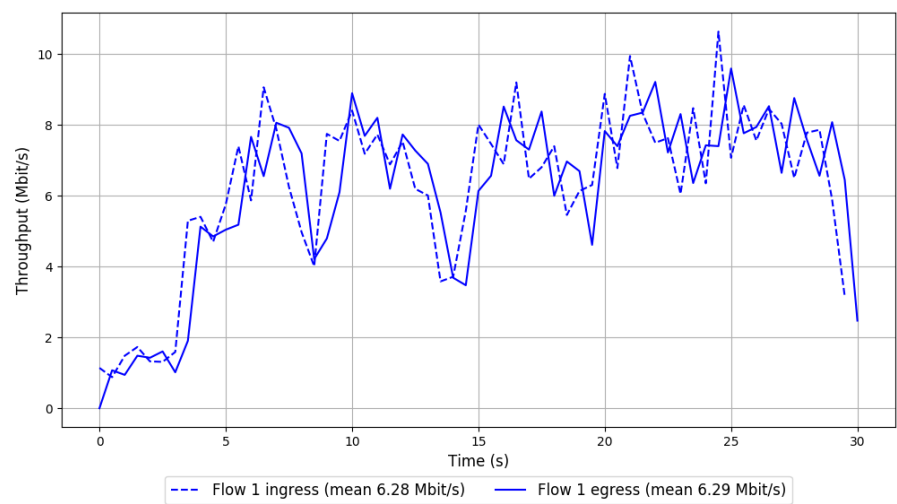


Run 10: Statistics of Sprout

Start at: 2018-06-20 19:47:21
End at: 2018-06-20 19:47:51
Local clock offset: -0.144 ms
Remote clock offset: -0.044 ms

Below is generated by plot.py at 2018-06-20 21:28:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.29 Mbit/s
95th percentile per-packet one-way delay: 54.210 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 6.29 Mbit/s
95th percentile per-packet one-way delay: 54.210 ms
Loss rate: 0.30%

Run 10: Report of Sprout — Data Link

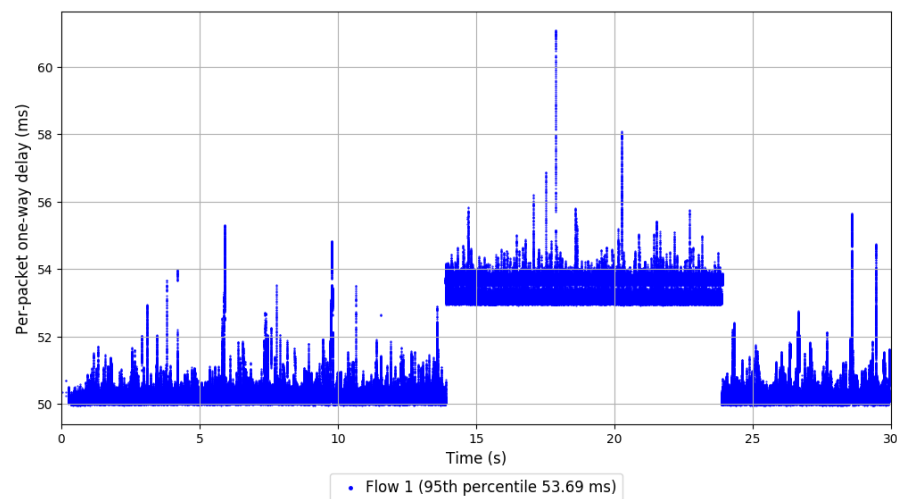
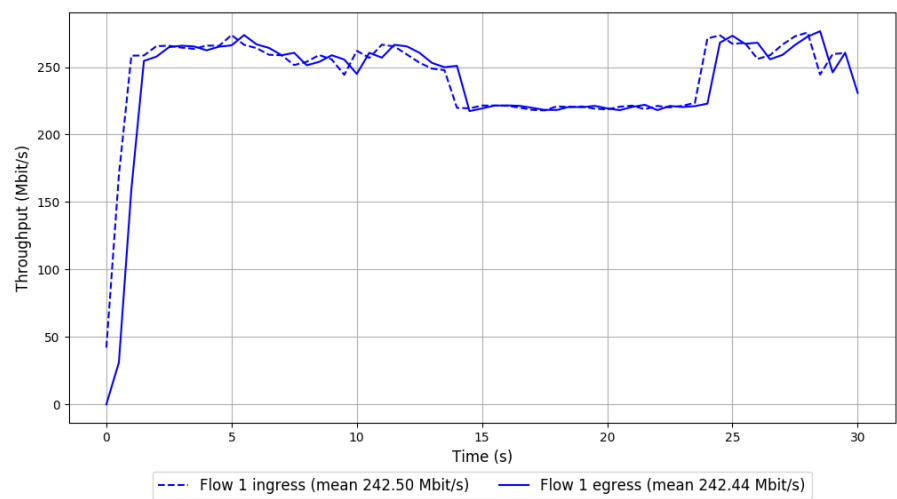


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-20 16:44:28
End at: 2018-06-20 16:44:58
Local clock offset: -0.147 ms
Remote clock offset: 0.067 ms

# Below is generated by plot.py at 2018-06-20 21:31:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 242.44 Mbit/s
95th percentile per-packet one-way delay: 53.685 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 242.44 Mbit/s
95th percentile per-packet one-way delay: 53.685 ms
Loss rate: 0.37%
```

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

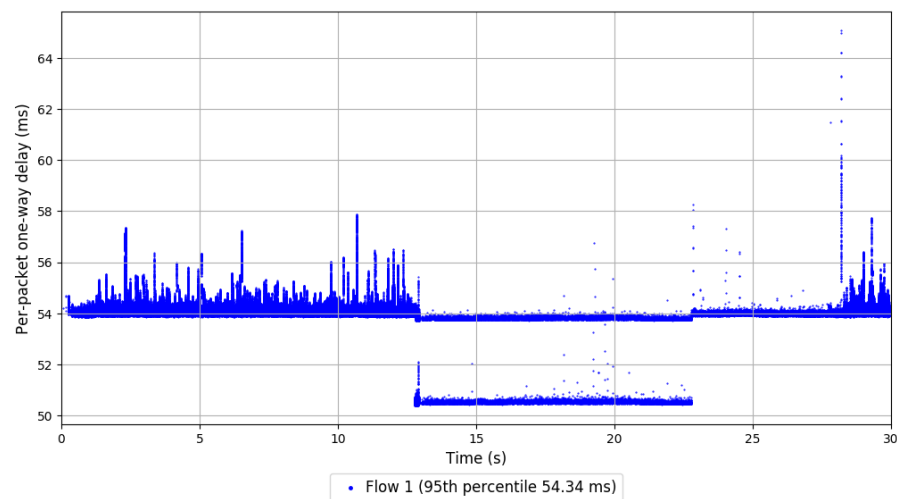
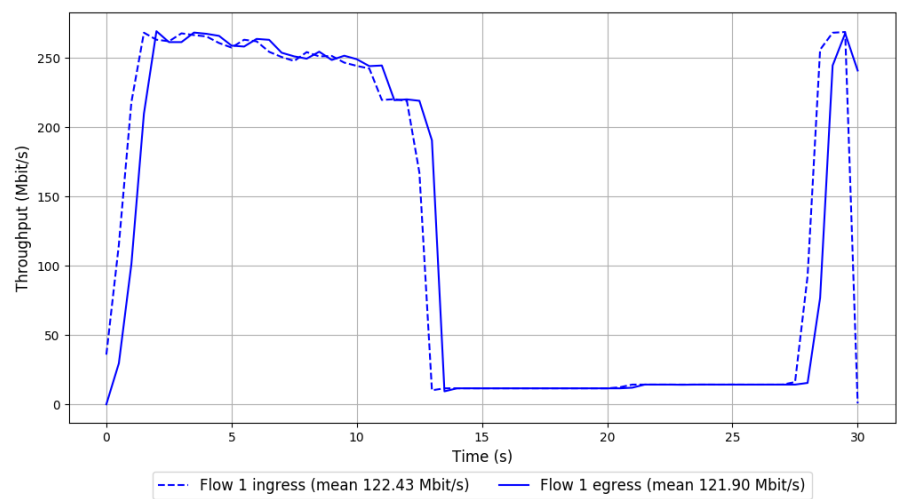


Run 2: Statistics of TaoVA-100x

Start at: 2018-06-20 17:05:09
End at: 2018-06-20 17:05:39
Local clock offset: -0.018 ms
Remote clock offset: -0.335 ms

Below is generated by plot.py at 2018-06-20 21:31:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 121.90 Mbit/s
95th percentile per-packet one-way delay: 54.340 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 121.90 Mbit/s
95th percentile per-packet one-way delay: 54.340 ms
Loss rate: 0.79%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-06-20 17:25:45

End at: 2018-06-20 17:26:15

Local clock offset: -0.074 ms

Remote clock offset: 1.318 ms

Below is generated by plot.py at 2018-06-20 21:31:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 238.57 Mbit/s

95th percentile per-packet one-way delay: 52.665 ms

Loss rate: 0.34%

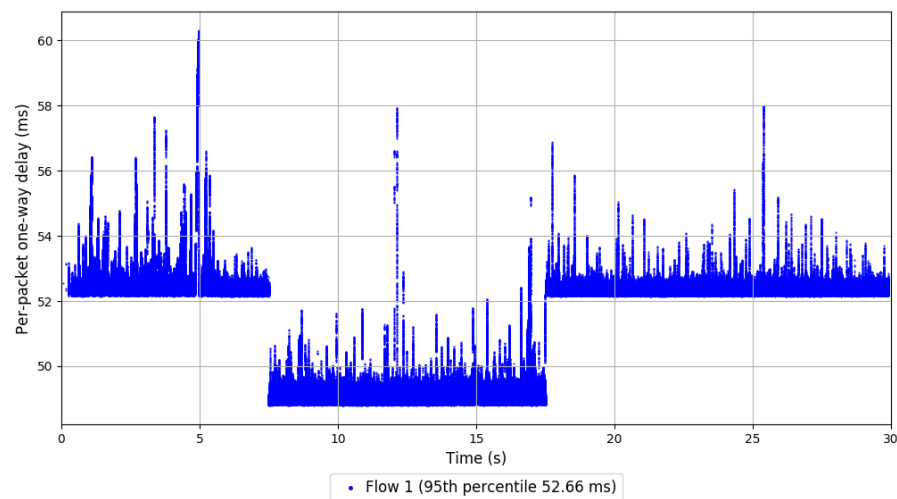
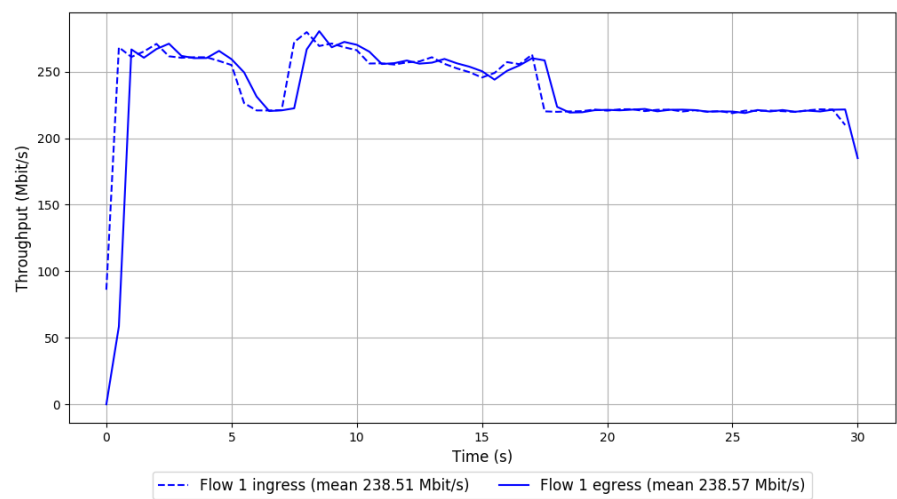
-- Flow 1:

Average throughput: 238.57 Mbit/s

95th percentile per-packet one-way delay: 52.665 ms

Loss rate: 0.34%

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

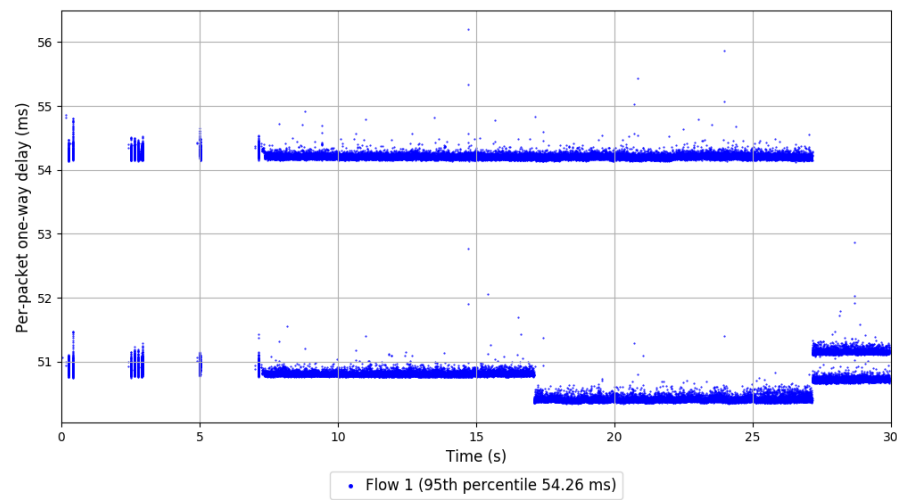
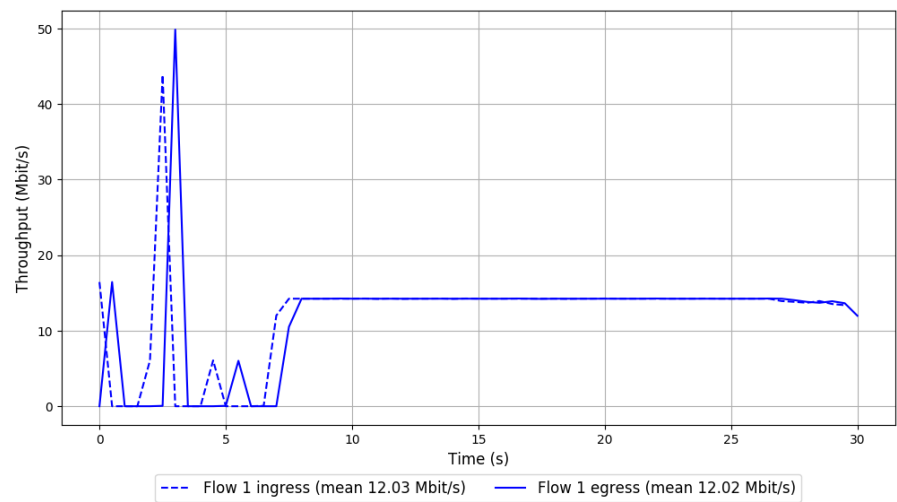


Run 4: Statistics of TaoVA-100x

Start at: 2018-06-20 17:46:35
End at: 2018-06-20 17:47:05
Local clock offset: 0.063 ms
Remote clock offset: -0.242 ms

Below is generated by plot.py at 2018-06-20 21:31:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.02 Mbit/s
95th percentile per-packet one-way delay: 54.262 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 12.02 Mbit/s
95th percentile per-packet one-way delay: 54.262 ms
Loss rate: 0.38%

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



Run 5: Statistics of TaoVA-100x

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

End at: 2018-06-20 18:07:24

Local clock offset: 0.197 ms

Remote clock offset: 1.373 ms

Below is generated by plot.py at 2018-06-20 21:31:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 134.59 Mbit/s

95th percentile per-packet one-way delay: 52.938 ms

Loss rate: 0.19%

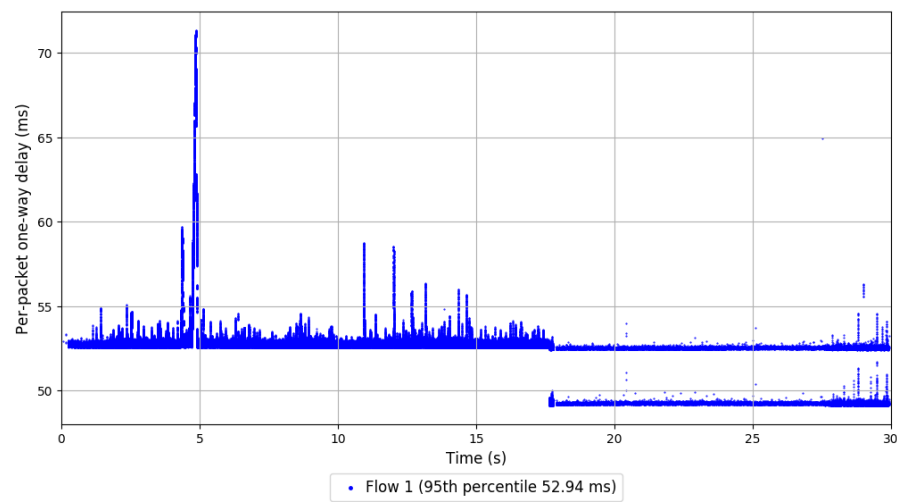
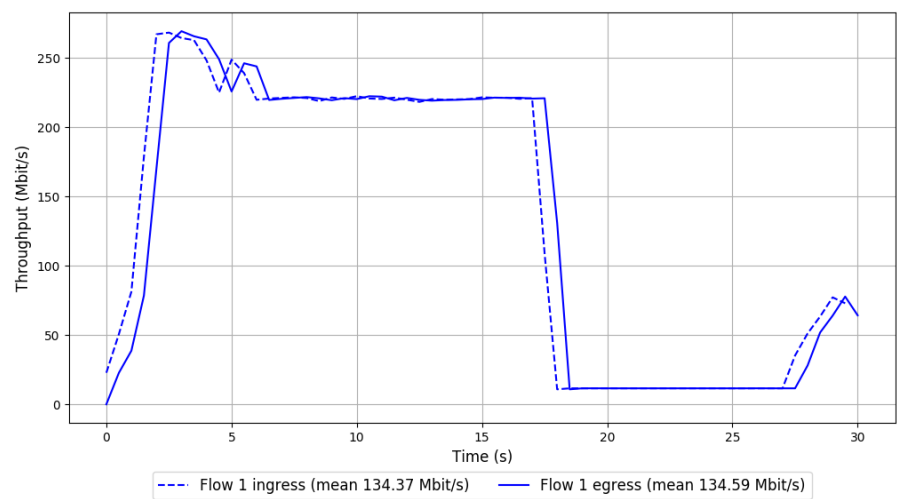
-- Flow 1:

Average throughput: 134.59 Mbit/s

95th percentile per-packet one-way delay: 52.938 ms

Loss rate: 0.19%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-06-20 18:27:30

End at: 2018-06-20 18:28:00

Local clock offset: 0.199 ms

Remote clock offset: 0.127 ms

Below is generated by plot.py at 2018-06-20 21:31:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.01 Mbit/s

95th percentile per-packet one-way delay: 54.140 ms

Loss rate: 0.35%

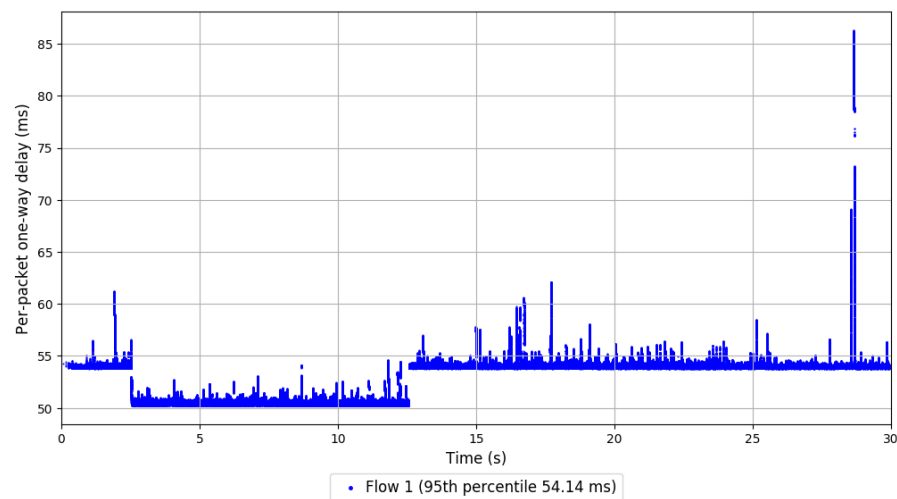
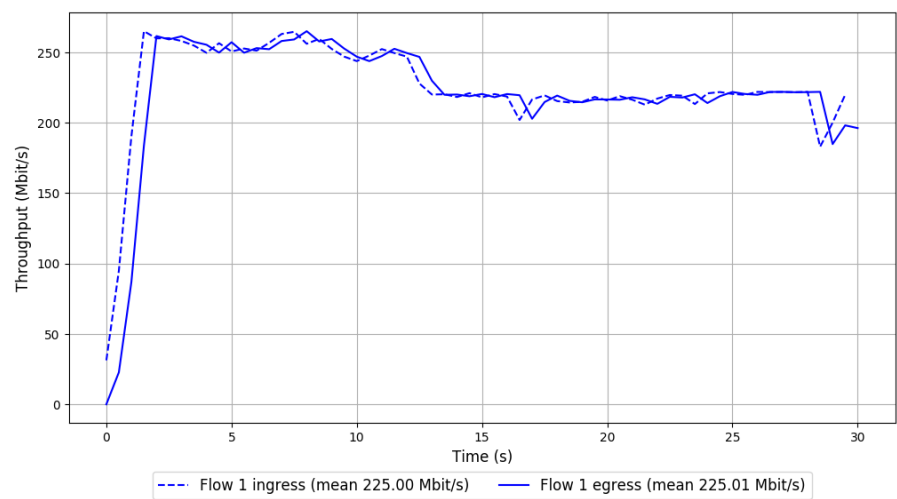
-- Flow 1:

Average throughput: 225.01 Mbit/s

95th percentile per-packet one-way delay: 54.140 ms

Loss rate: 0.35%

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



Run 7: Statistics of TaoVA-100x

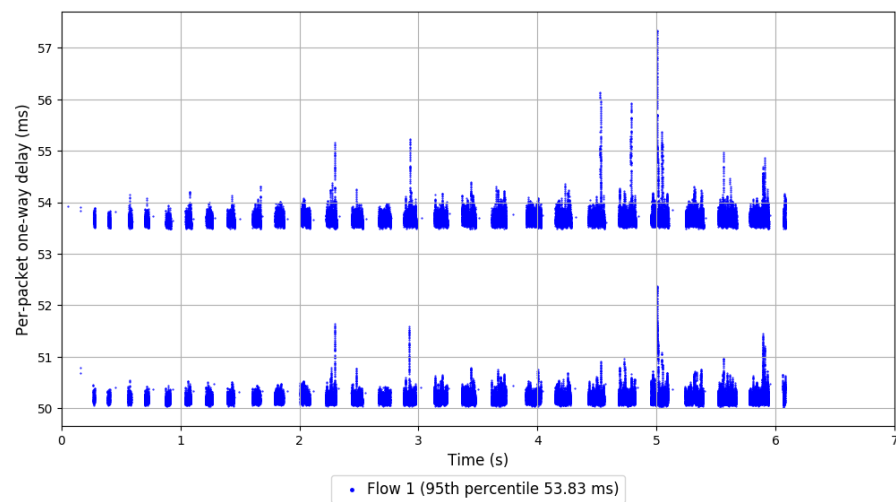
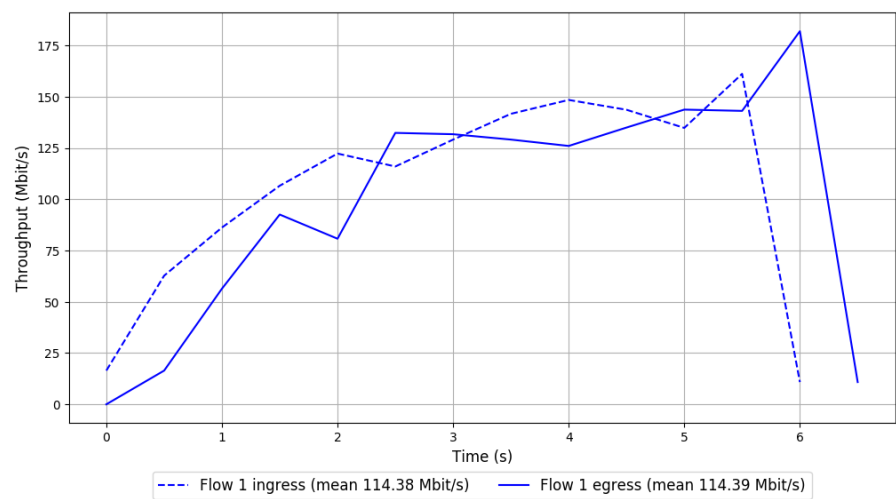
Start at: 2018-06-20 18:48:02

End at: 2018-06-20 18:48:32

Local clock offset: -0.229 ms

Remote clock offset: -0.247 ms

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-06-20 19:08:40

End at: 2018-06-20 19:09:10

Local clock offset: -0.04 ms

Remote clock offset: -0.296 ms

Below is generated by plot.py at 2018-06-20 21:31:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 113.86 Mbit/s

95th percentile per-packet one-way delay: 52.079 ms

Loss rate: 0.02%

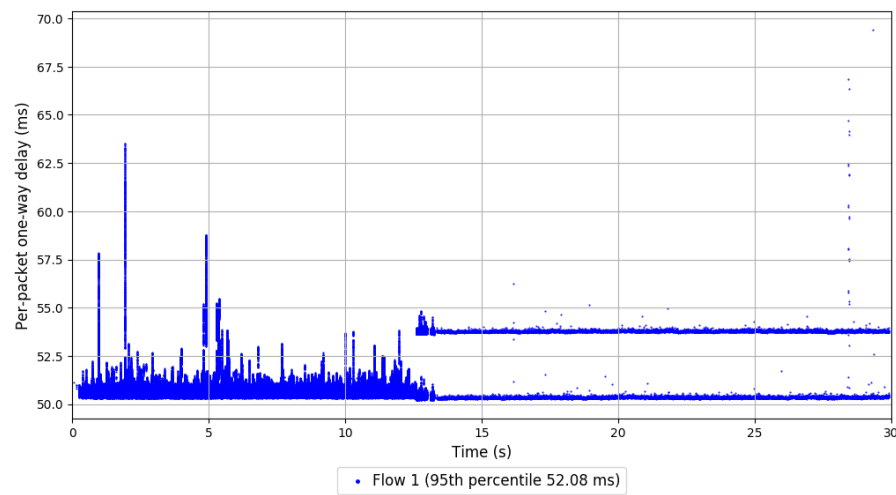
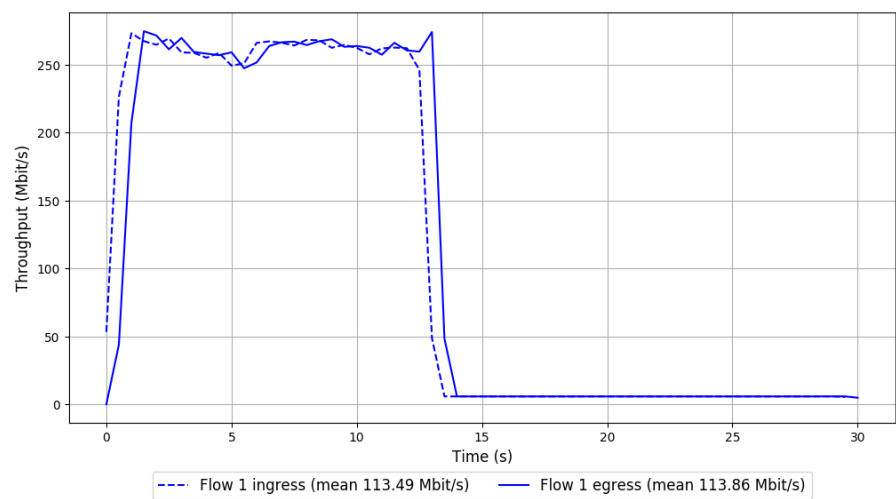
-- Flow 1:

Average throughput: 113.86 Mbit/s

95th percentile per-packet one-way delay: 52.079 ms

Loss rate: 0.02%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-06-20 19:29:28

End at: 2018-06-20 19:29:58

Local clock offset: -0.03 ms

Remote clock offset: -0.224 ms

Below is generated by plot.py at 2018-06-20 21:31:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.65 Mbit/s

95th percentile per-packet one-way delay: 53.793 ms

Loss rate: 0.27%

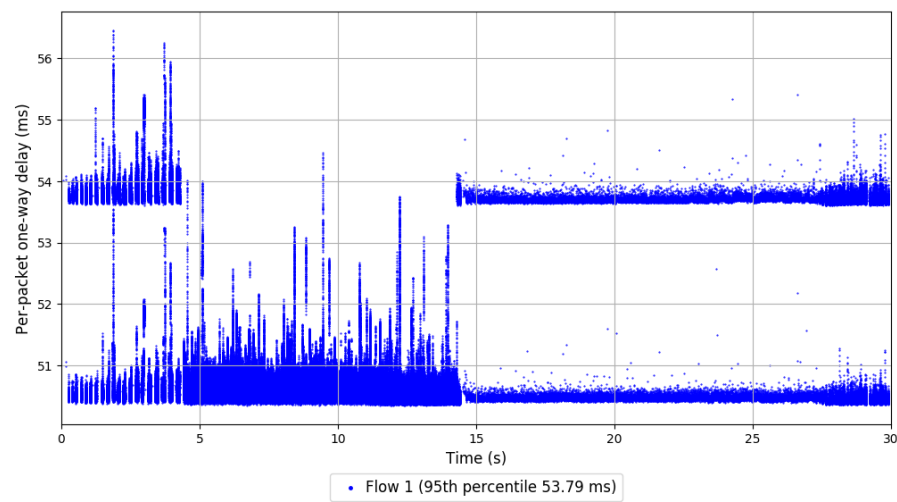
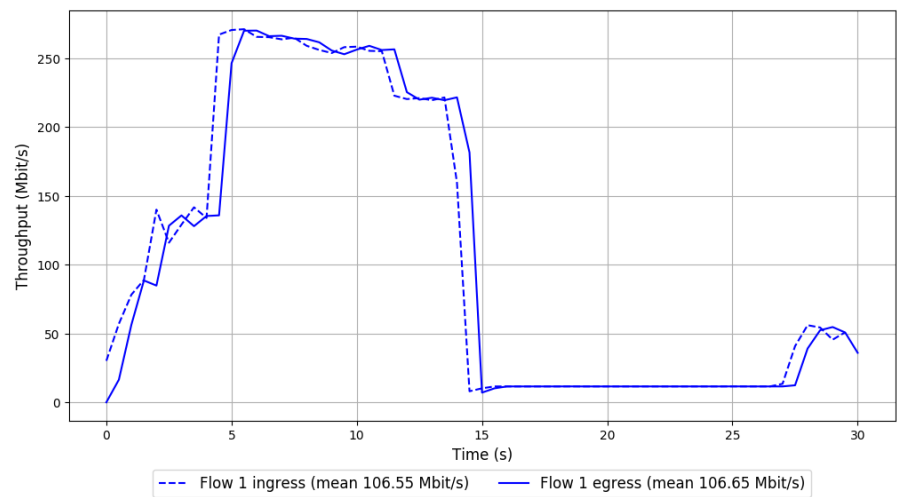
-- Flow 1:

Average throughput: 106.65 Mbit/s

95th percentile per-packet one-way delay: 53.793 ms

Loss rate: 0.27%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-06-20 19:50:08

End at: 2018-06-20 19:50:38

Local clock offset: 0.064 ms

Remote clock offset: -0.049 ms

Below is generated by plot.py at 2018-06-20 21:31:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.11 Mbit/s

95th percentile per-packet one-way delay: 53.916 ms

Loss rate: 0.36%

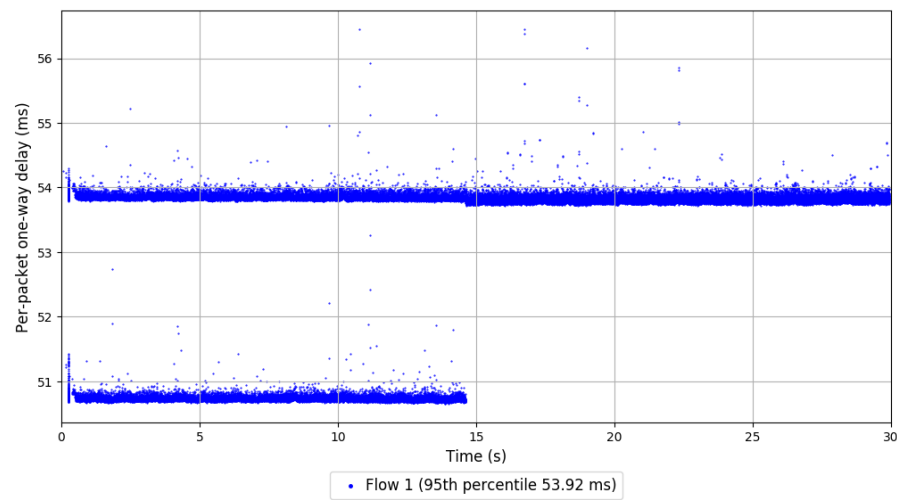
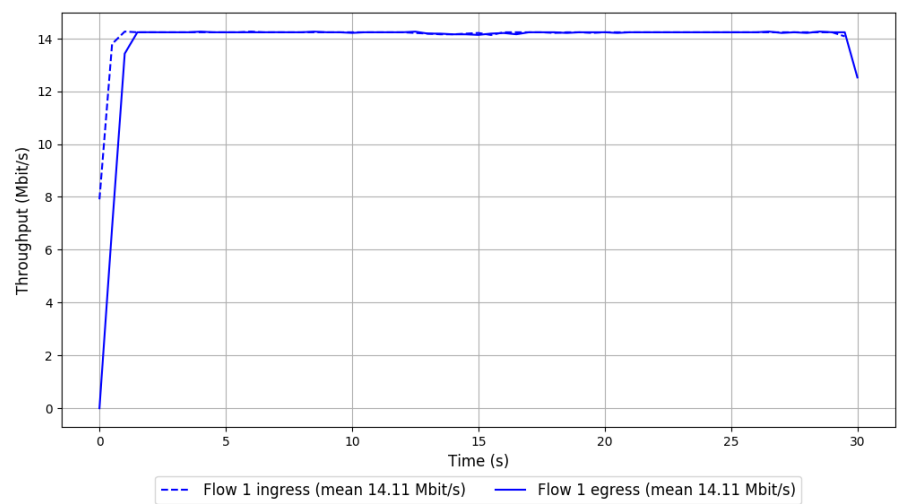
-- Flow 1:

Average throughput: 14.11 Mbit/s

95th percentile per-packet one-way delay: 53.916 ms

Loss rate: 0.36%

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

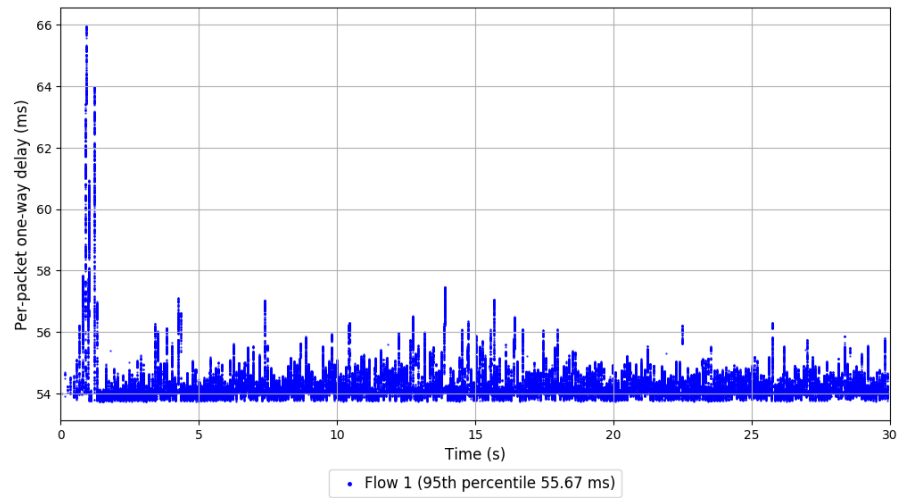
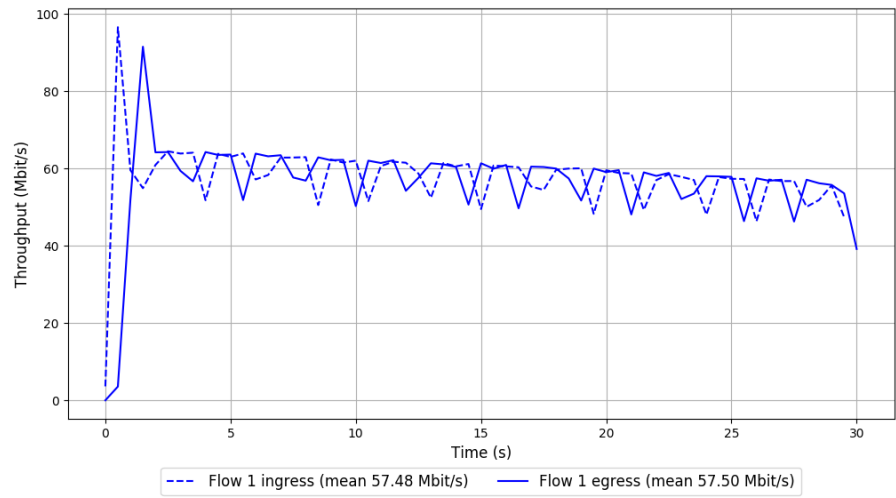


Run 1: Statistics of TCP Vegas

Start at: 2018-06-20 16:56:01
End at: 2018-06-20 16:56:31
Local clock offset: -0.078 ms
Remote clock offset: -0.218 ms

Below is generated by plot.py at 2018-06-20 21:31:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 57.50 Mbit/s
95th percentile per-packet one-way delay: 55.674 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 57.50 Mbit/s
95th percentile per-packet one-way delay: 55.674 ms
Loss rate: 0.32%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-06-20 17:16:26

End at: 2018-06-20 17:16:56

Local clock offset: -0.237 ms

Remote clock offset: 1.123 ms

Below is generated by plot.py at 2018-06-20 21:31:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 134.76 Mbit/s

95th percentile per-packet one-way delay: 53.830 ms

Loss rate: 0.31%

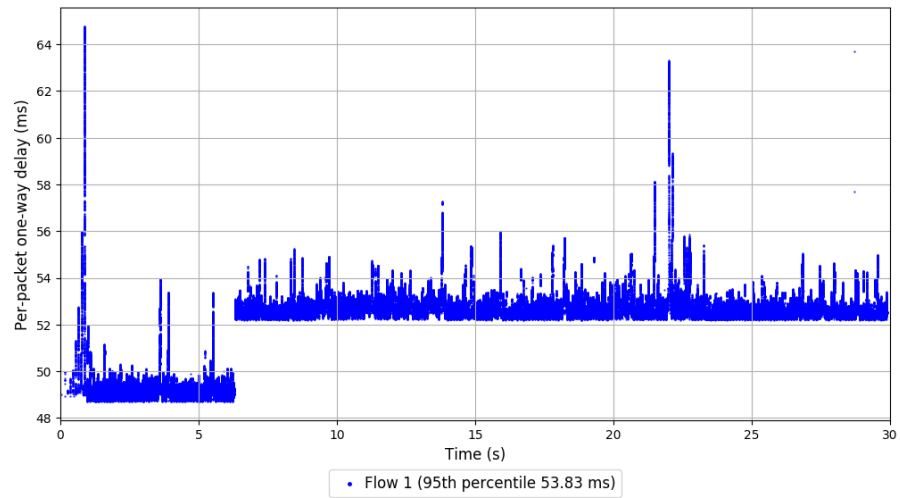
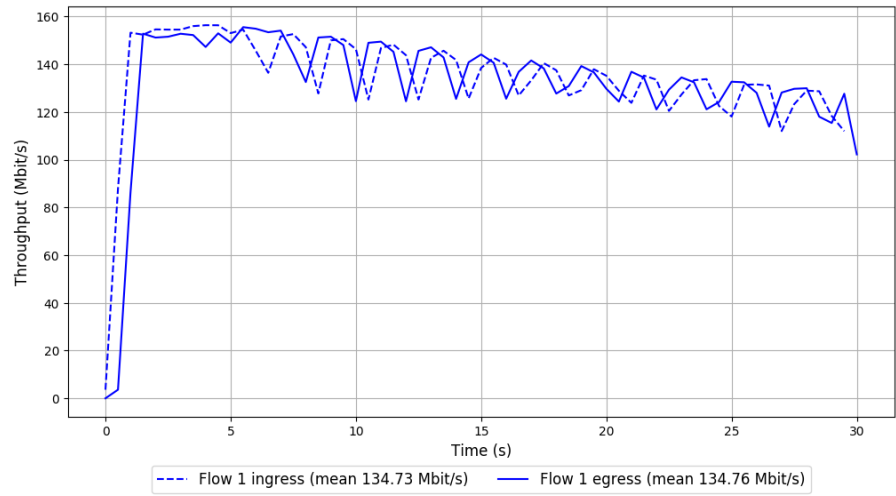
-- Flow 1:

Average throughput: 134.76 Mbit/s

95th percentile per-packet one-way delay: 53.830 ms

Loss rate: 0.31%

Run 2: Report of TCP Vegas — Data Link

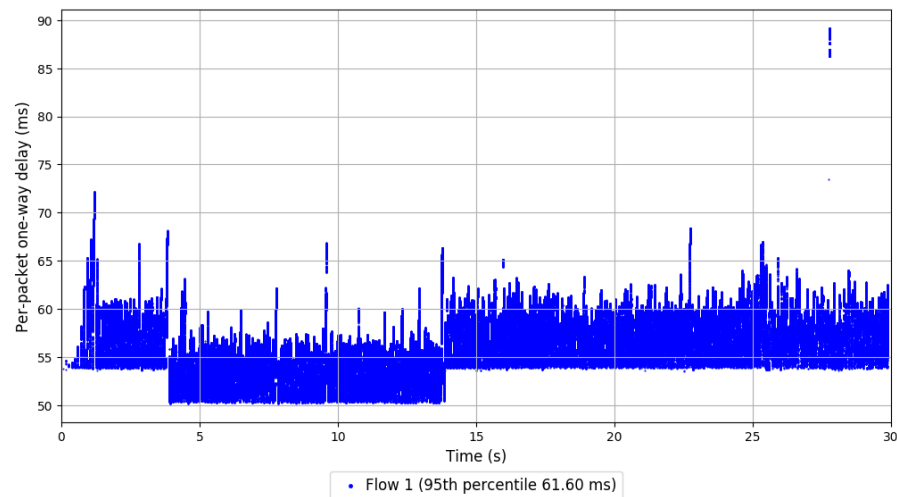
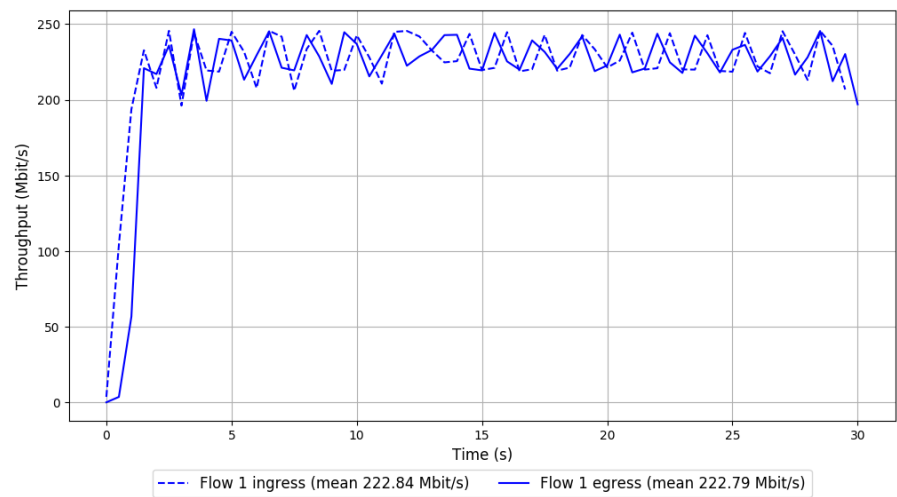


Run 3: Statistics of TCP Vegas

Start at: 2018-06-20 17:37:18
End at: 2018-06-20 17:37:48
Local clock offset: -0.091 ms
Remote clock offset: 0.052 ms

Below is generated by plot.py at 2018-06-20 21:33:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 222.79 Mbit/s
95th percentile per-packet one-way delay: 61.598 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 222.79 Mbit/s
95th percentile per-packet one-way delay: 61.598 ms
Loss rate: 0.36%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-06-20 17:57:49

End at: 2018-06-20 17:58:19

Local clock offset: -0.008 ms

Remote clock offset: 0.176 ms

Below is generated by plot.py at 2018-06-20 21:33:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 128.48 Mbit/s

95th percentile per-packet one-way delay: 54.763 ms

Loss rate: 0.37%

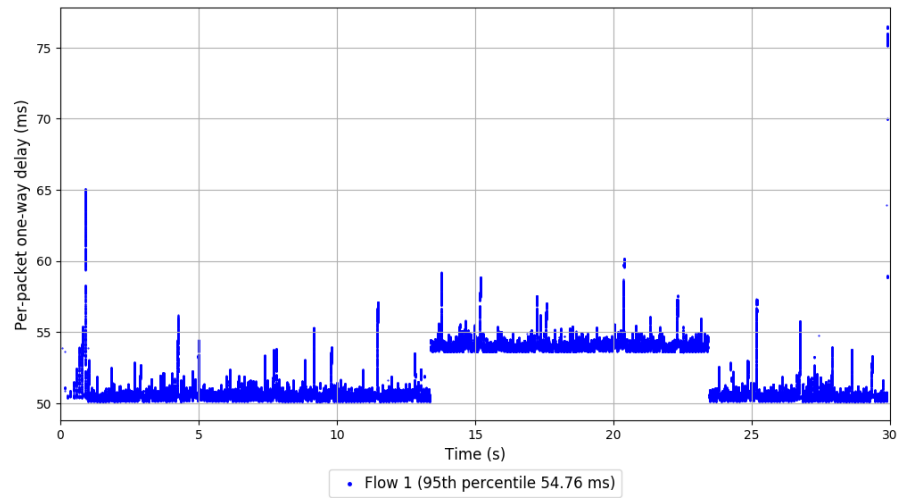
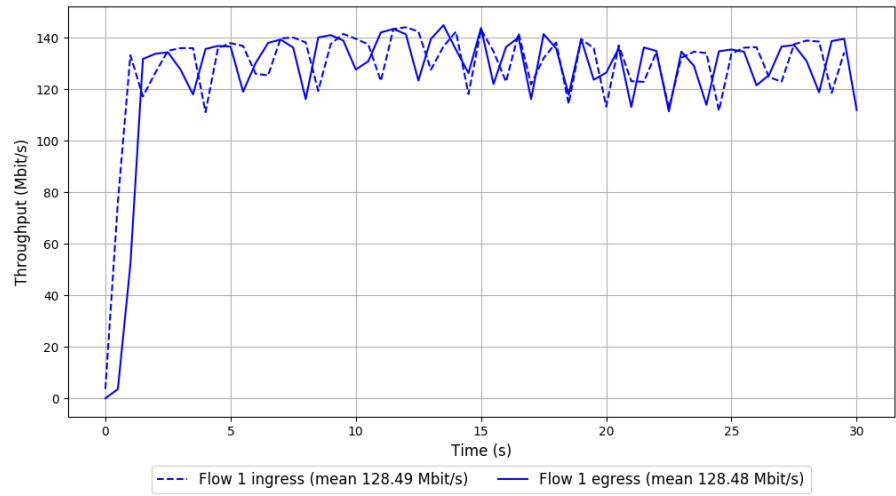
-- Flow 1:

Average throughput: 128.48 Mbit/s

95th percentile per-packet one-way delay: 54.763 ms

Loss rate: 0.37%

Run 4: Report of TCP Vegas — Data Link

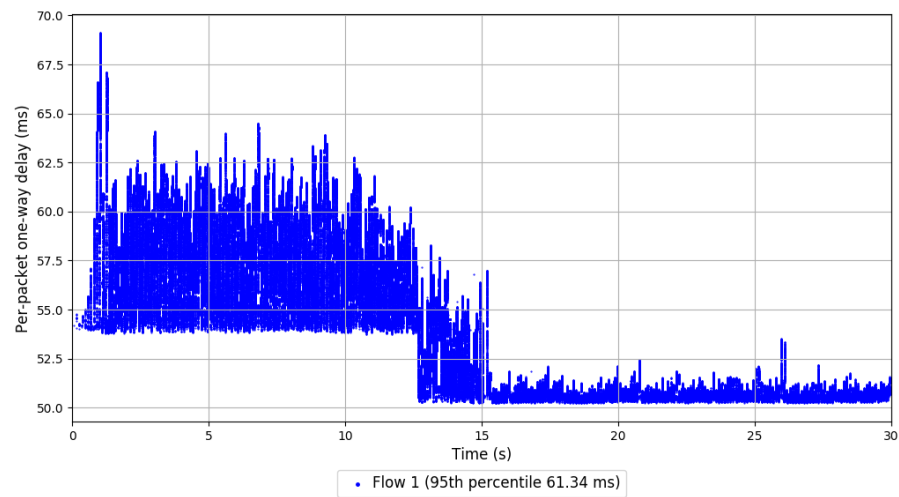
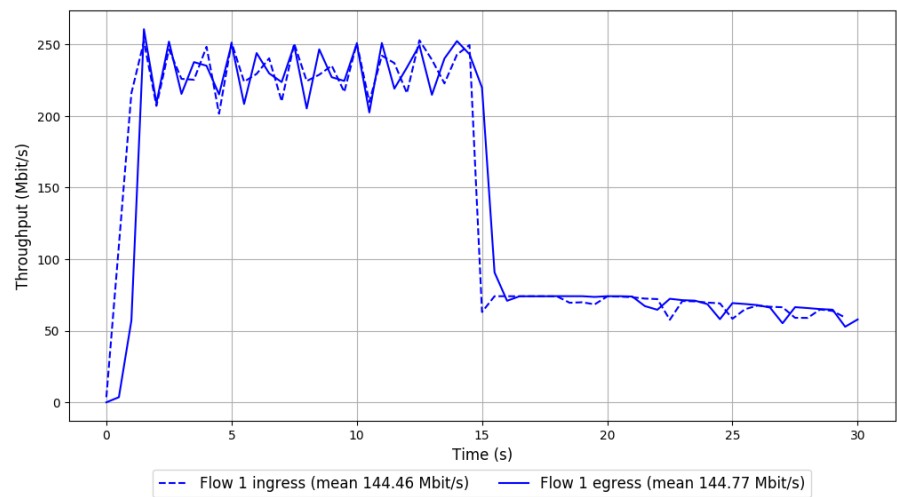


Run 5: Statistics of TCP Vegas

Start at: 2018-06-20 18:18:09
End at: 2018-06-20 18:18:39
Local clock offset: -0.045 ms
Remote clock offset: -0.018 ms

Below is generated by plot.py at 2018-06-20 21:33:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 144.77 Mbit/s
95th percentile per-packet one-way delay: 61.341 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 144.77 Mbit/s
95th percentile per-packet one-way delay: 61.341 ms
Loss rate: 0.15%

Run 5: Report of TCP Vegas — Data Link

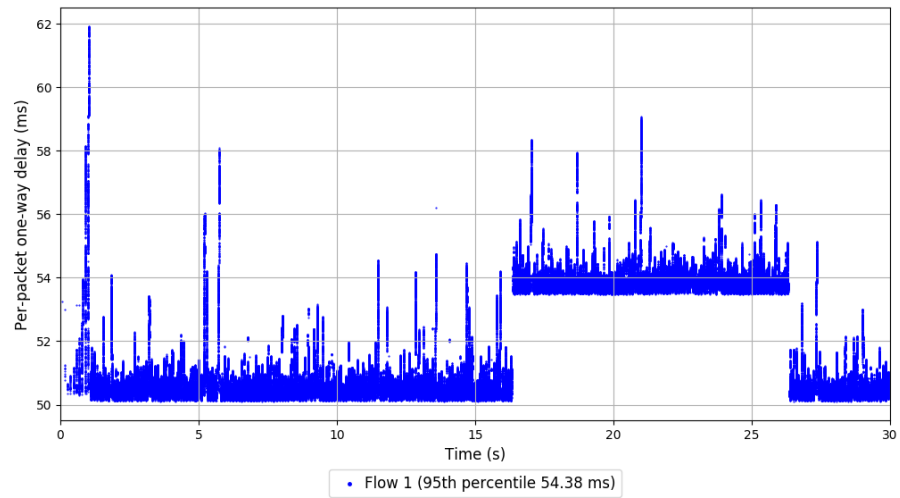
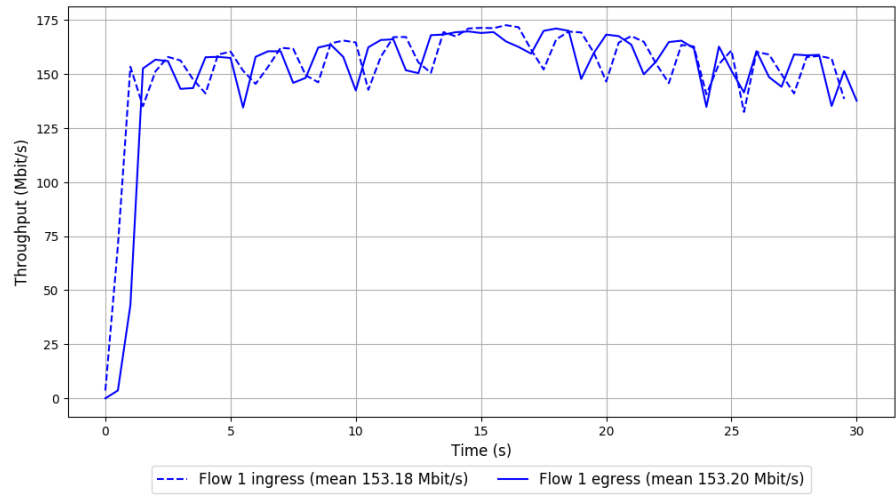


Run 6: Statistics of TCP Vegas

Start at: 2018-06-20 18:38:56
End at: 2018-06-20 18:39:26
Local clock offset: -0.121 ms
Remote clock offset: -0.167 ms

Below is generated by plot.py at 2018-06-20 21:34:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 153.20 Mbit/s
95th percentile per-packet one-way delay: 54.381 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 153.20 Mbit/s
95th percentile per-packet one-way delay: 54.381 ms
Loss rate: 0.34%

Run 6: Report of TCP Vegas — Data Link

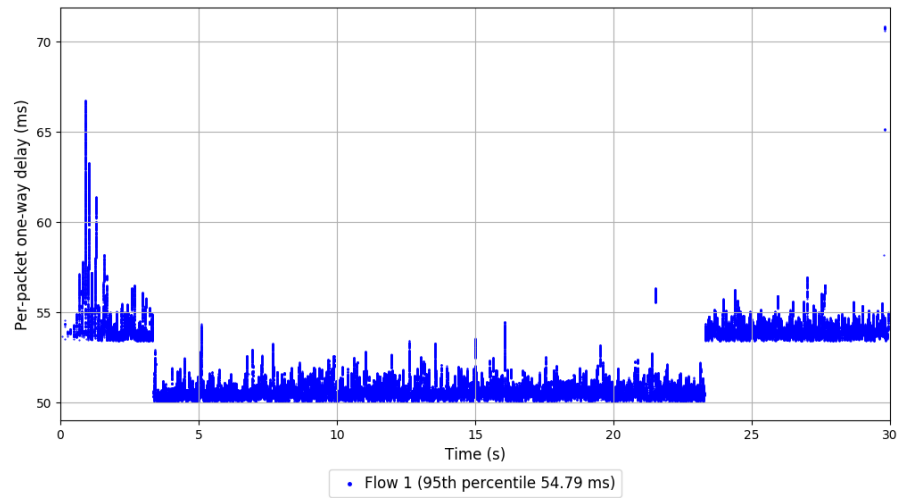
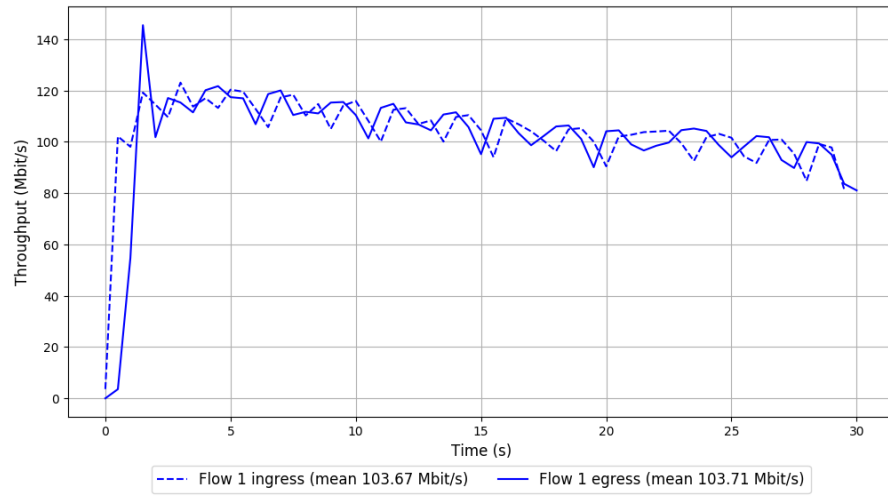


Run 7: Statistics of TCP Vegas

Start at: 2018-06-20 18:59:09
End at: 2018-06-20 18:59:39
Local clock offset: -0.082 ms
Remote clock offset: -0.196 ms

Below is generated by plot.py at 2018-06-20 21:34:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 103.71 Mbit/s
95th percentile per-packet one-way delay: 54.794 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 103.71 Mbit/s
95th percentile per-packet one-way delay: 54.794 ms
Loss rate: 0.31%

Run 7: Report of TCP Vegas — Data Link

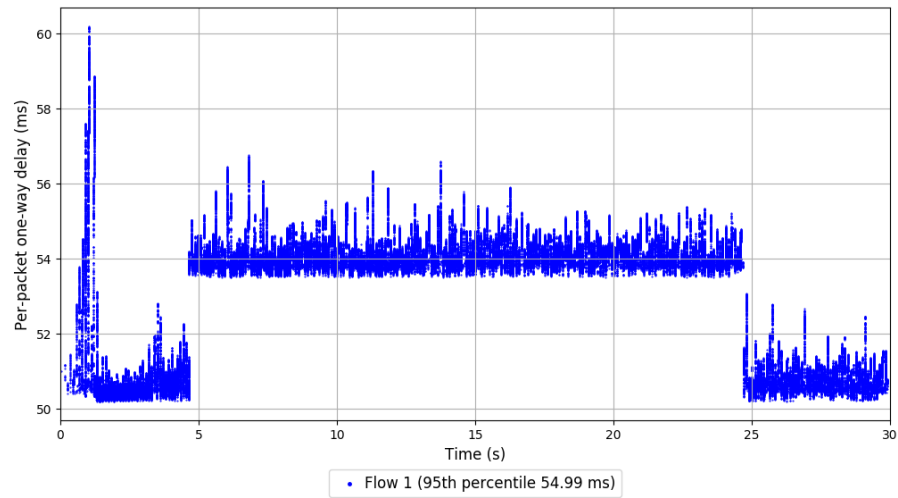
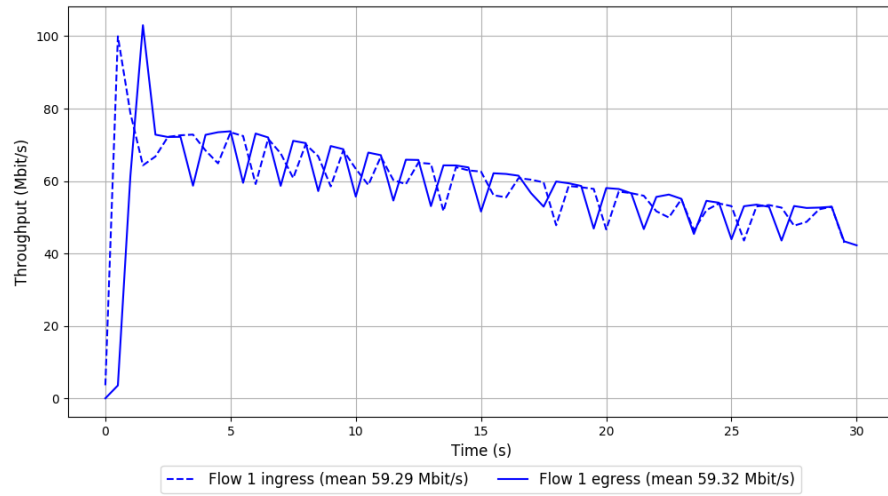


Run 8: Statistics of TCP Vegas

Start at: 2018-06-20 19:19:57
End at: 2018-06-20 19:20:27
Local clock offset: -0.07 ms
Remote clock offset: -0.113 ms

Below is generated by plot.py at 2018-06-20 21:34:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 59.32 Mbit/s
95th percentile per-packet one-way delay: 54.988 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 59.32 Mbit/s
95th percentile per-packet one-way delay: 54.988 ms
Loss rate: 0.30%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-06-20 19:40:49

End at: 2018-06-20 19:41:19

Local clock offset: -0.026 ms

Remote clock offset: 0.358 ms

Below is generated by plot.py at 2018-06-20 21:34:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.47 Mbit/s

95th percentile per-packet one-way delay: 54.570 ms

Loss rate: 0.40%

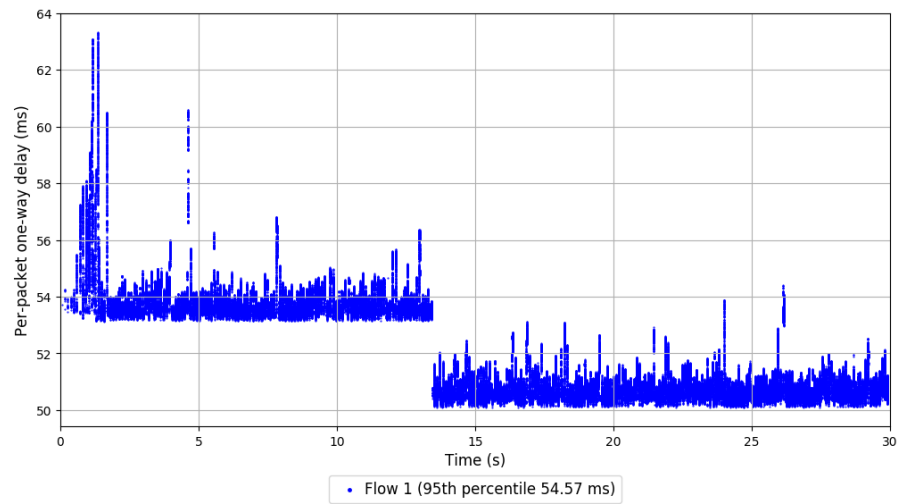
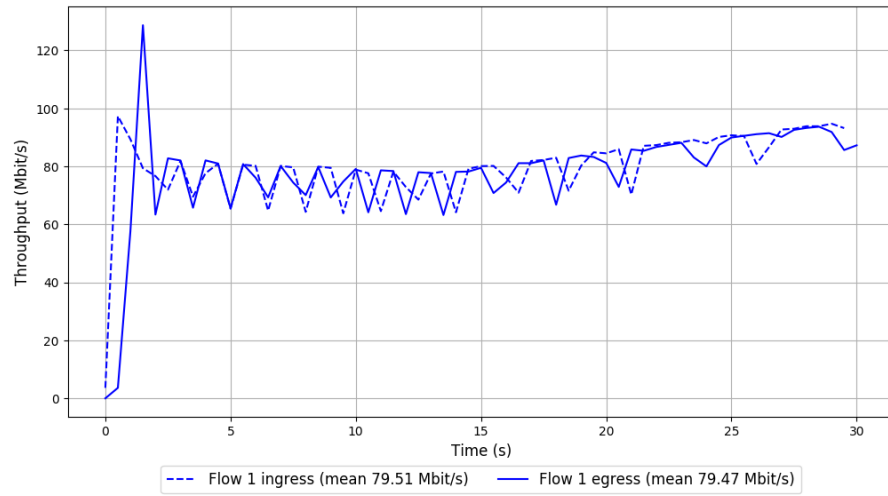
-- Flow 1:

Average throughput: 79.47 Mbit/s

95th percentile per-packet one-way delay: 54.570 ms

Loss rate: 0.40%

Run 9: Report of TCP Vegas — Data Link

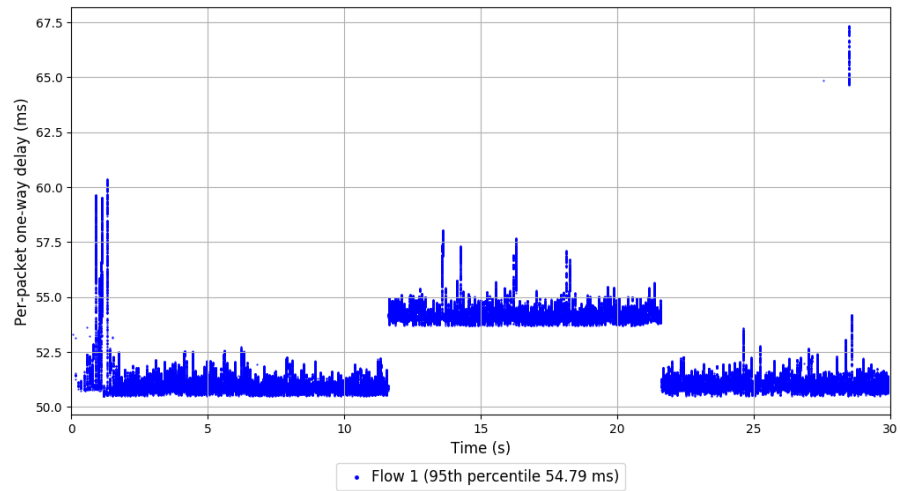
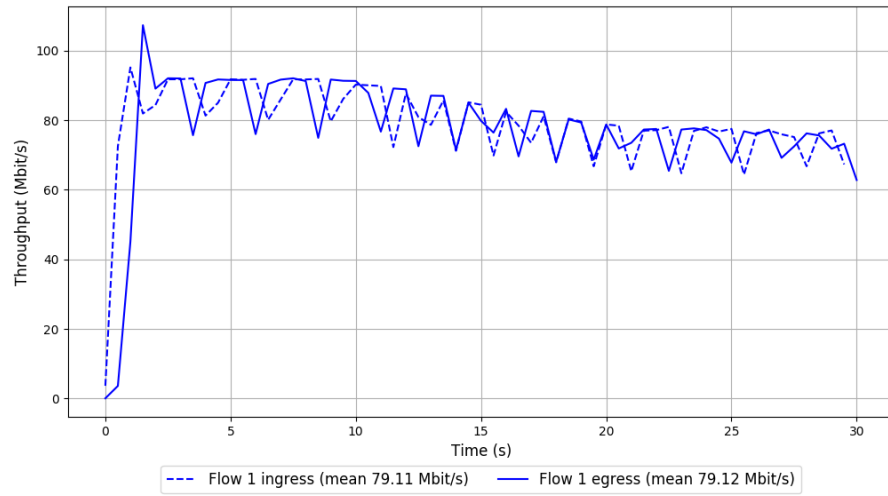


Run 10: Statistics of TCP Vegas

Start at: 2018-06-20 20:01:21
End at: 2018-06-20 20:01:51
Local clock offset: -0.093 ms
Remote clock offset: -0.005 ms

Below is generated by plot.py at 2018-06-20 21:34:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 79.12 Mbit/s
95th percentile per-packet one-way delay: 54.788 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 79.12 Mbit/s
95th percentile per-packet one-way delay: 54.788 ms
Loss rate: 0.33%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-06-20 16:51:08

End at: 2018-06-20 16:51:38

Local clock offset: -0.026 ms

Remote clock offset: 1.157 ms

Below is generated by plot.py at 2018-06-20 21:36:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 282.59 Mbit/s

95th percentile per-packet one-way delay: 153.634 ms

Loss rate: 0.17%

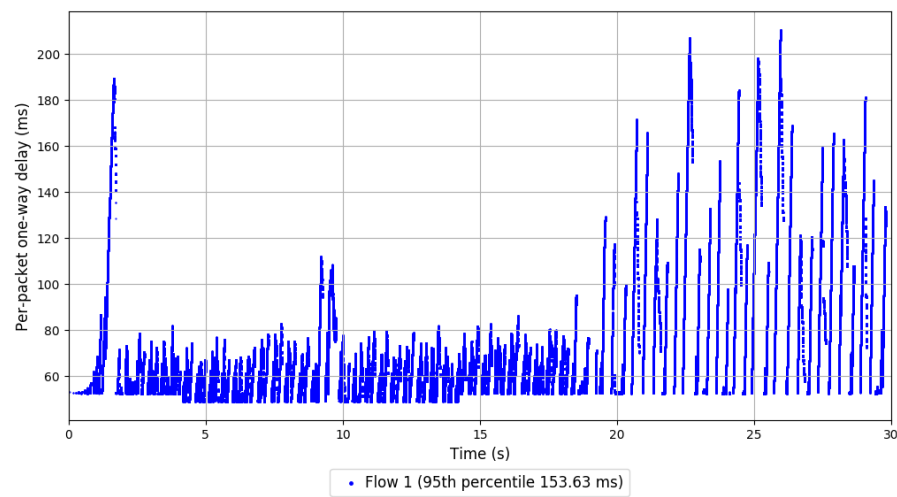
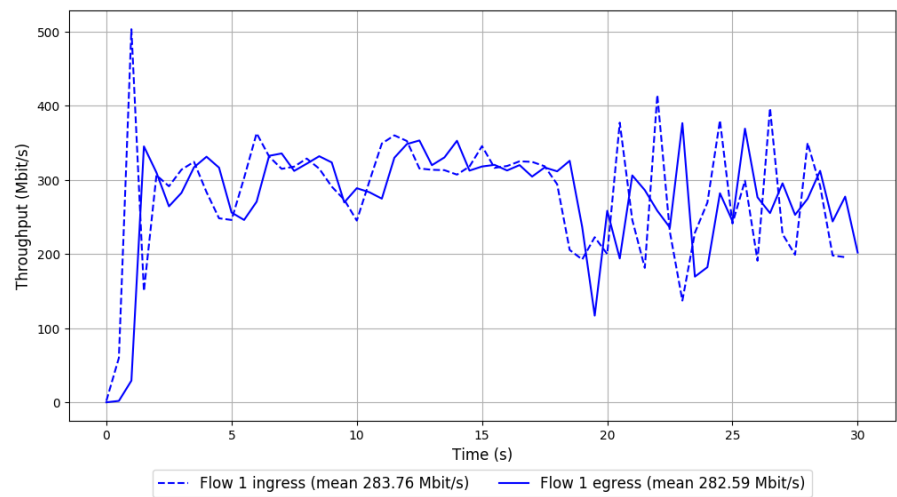
-- Flow 1:

Average throughput: 282.59 Mbit/s

95th percentile per-packet one-way delay: 153.634 ms

Loss rate: 0.17%

Run 1: Report of Verus — Data Link

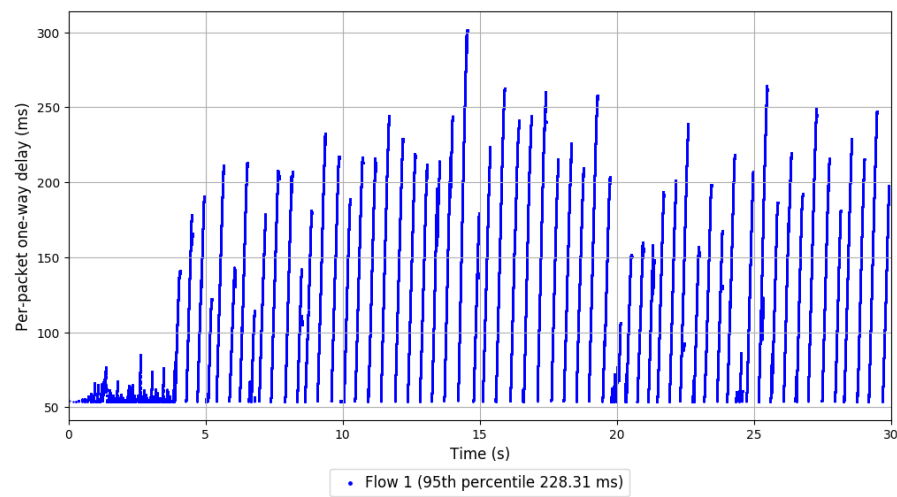
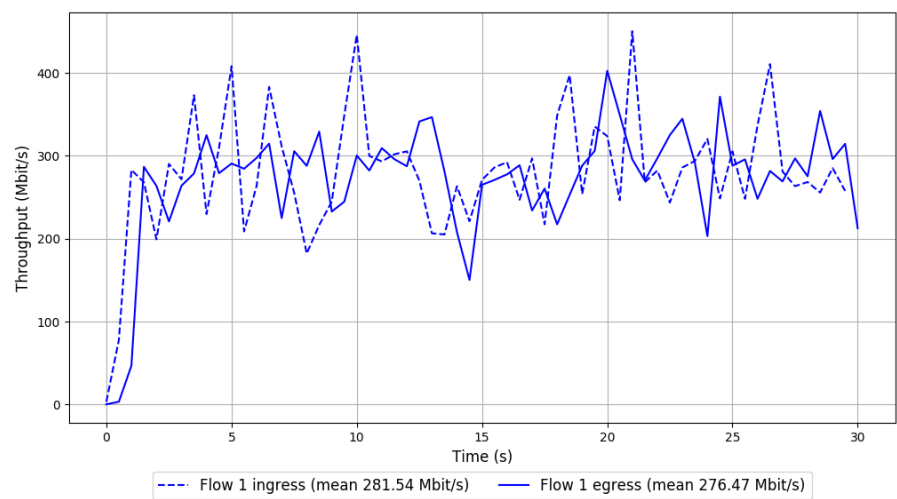


Run 2: Statistics of Verus

Start at: 2018-06-20 17:11:33
End at: 2018-06-20 17:12:03
Local clock offset: -0.034 ms
Remote clock offset: -0.188 ms

Below is generated by plot.py at 2018-06-20 21:37:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 276.47 Mbit/s
95th percentile per-packet one-way delay: 228.309 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 276.47 Mbit/s
95th percentile per-packet one-way delay: 228.309 ms
Loss rate: 1.40%

Run 2: Report of Verus — Data Link

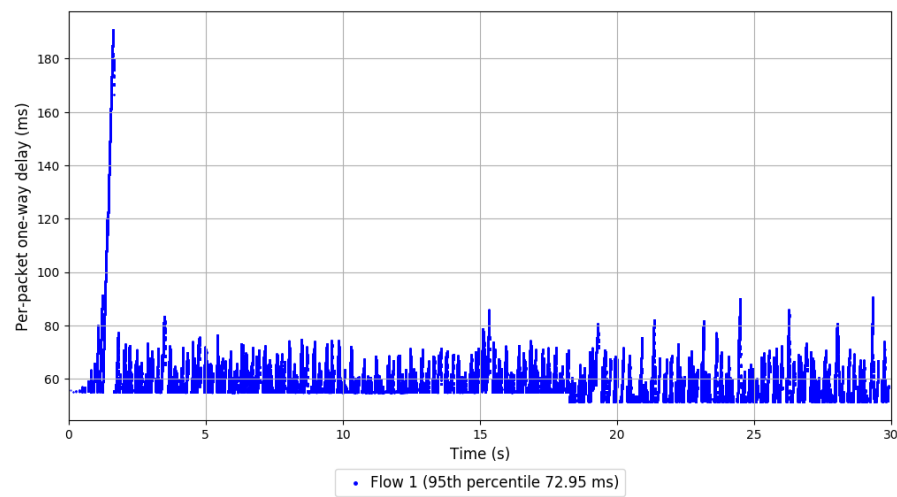
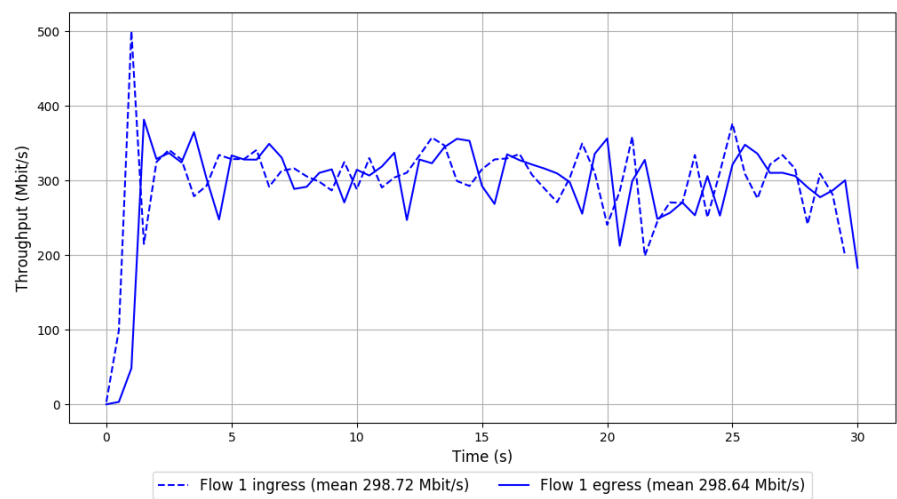


Run 3: Statistics of Verus

Start at: 2018-06-20 17:32:24
End at: 2018-06-20 17:32:54
Local clock offset: -0.066 ms
Remote clock offset: -1.195 ms

Below is generated by plot.py at 2018-06-20 21:38:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 298.64 Mbit/s
95th percentile per-packet one-way delay: 72.949 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 298.64 Mbit/s
95th percentile per-packet one-way delay: 72.949 ms
Loss rate: 0.26%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-06-20 17:52:53

End at: 2018-06-20 17:53:23

Local clock offset: -0.21 ms

Remote clock offset: 0.184 ms

Below is generated by plot.py at 2018-06-20 21:38:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 323.95 Mbit/s

95th percentile per-packet one-way delay: 201.620 ms

Loss rate: 0.78%

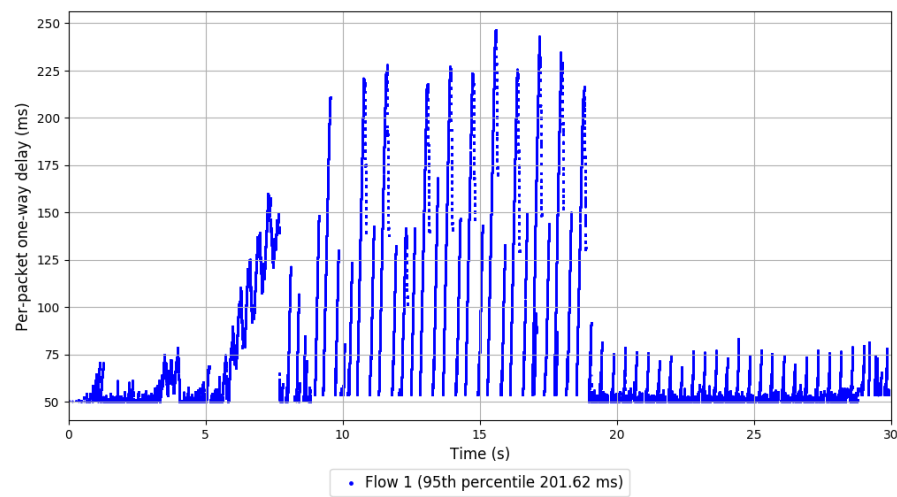
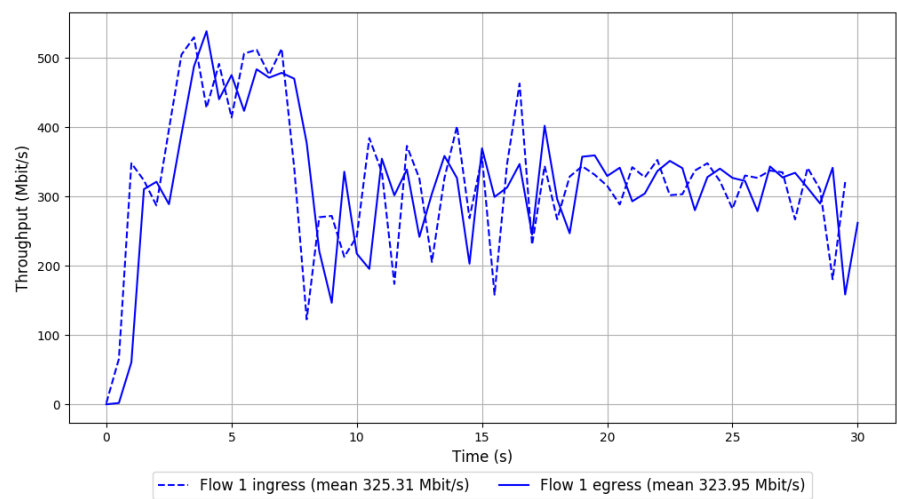
-- Flow 1:

Average throughput: 323.95 Mbit/s

95th percentile per-packet one-way delay: 201.620 ms

Loss rate: 0.78%

Run 4: Report of Verus — Data Link

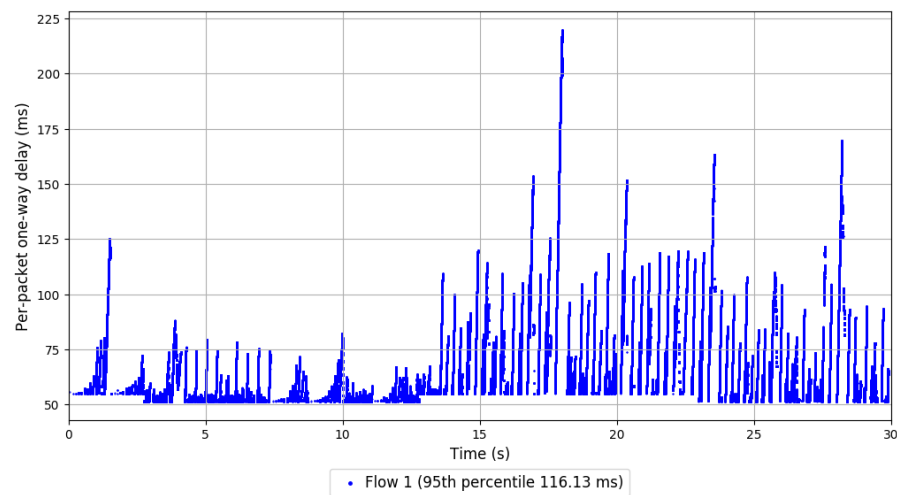
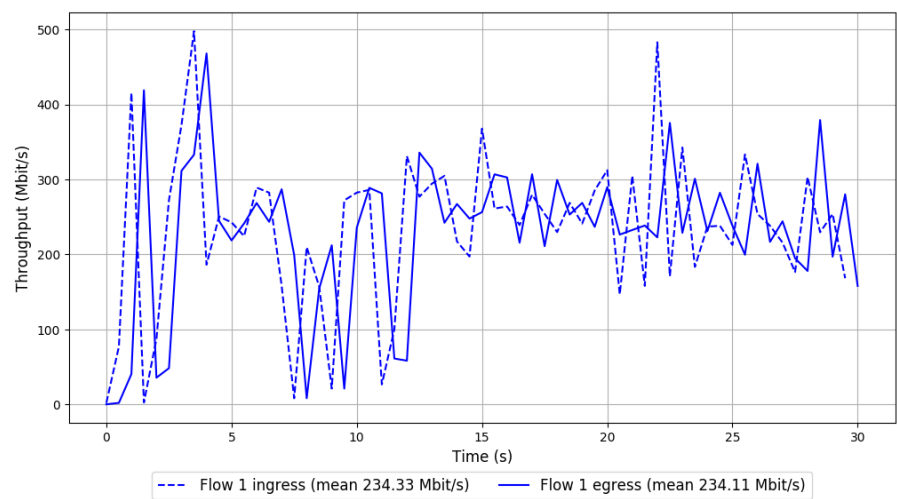


Run 5: Statistics of Verus

Start at: 2018-06-20 18:13:19
End at: 2018-06-20 18:13:49
Local clock offset: -0.039 ms
Remote clock offset: -1.122 ms

Below is generated by plot.py at 2018-06-20 21:38:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 234.11 Mbit/s
95th percentile per-packet one-way delay: 116.133 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 234.11 Mbit/s
95th percentile per-packet one-way delay: 116.133 ms
Loss rate: 0.12%

Run 5: Report of Verus — Data Link

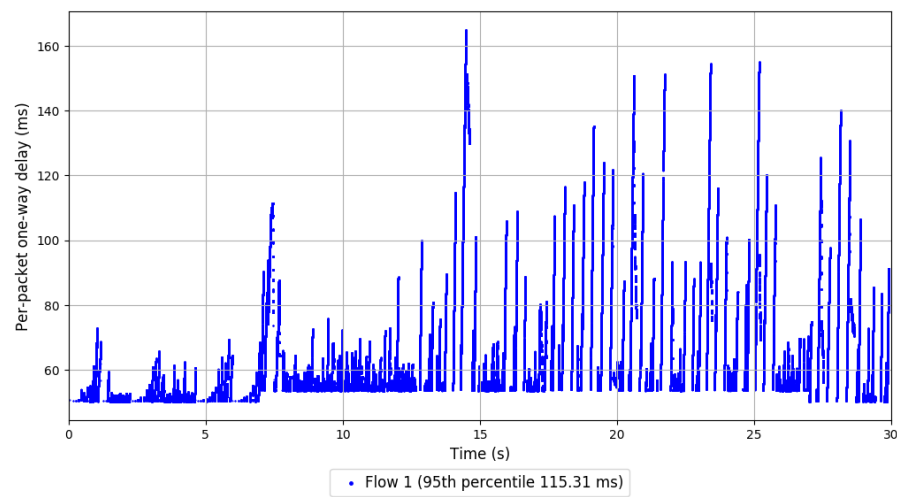
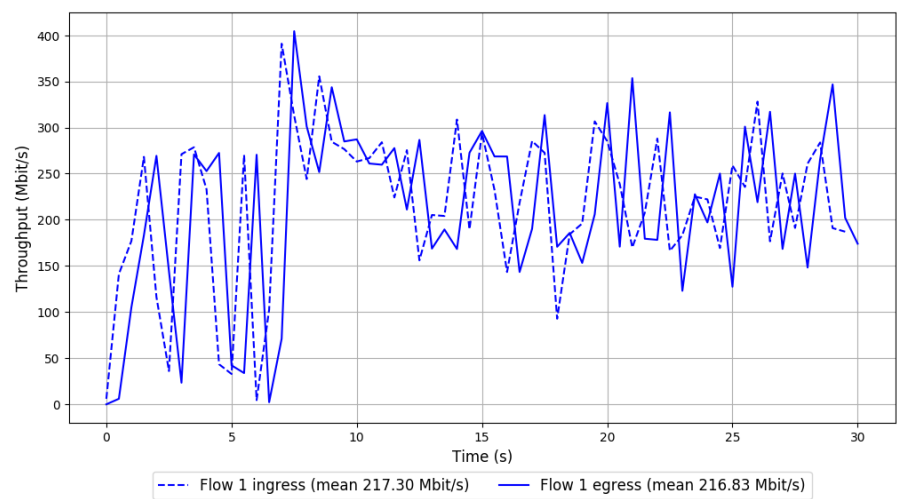


Run 6: Statistics of Verus

Start at: 2018-06-20 18:34:05
End at: 2018-06-20 18:34:35
Local clock offset: 0.004 ms
Remote clock offset: -0.041 ms

Below is generated by plot.py at 2018-06-20 21:38:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 216.83 Mbit/s
95th percentile per-packet one-way delay: 115.310 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 216.83 Mbit/s
95th percentile per-packet one-way delay: 115.310 ms
Loss rate: 0.10%

Run 6: Report of Verus — Data Link

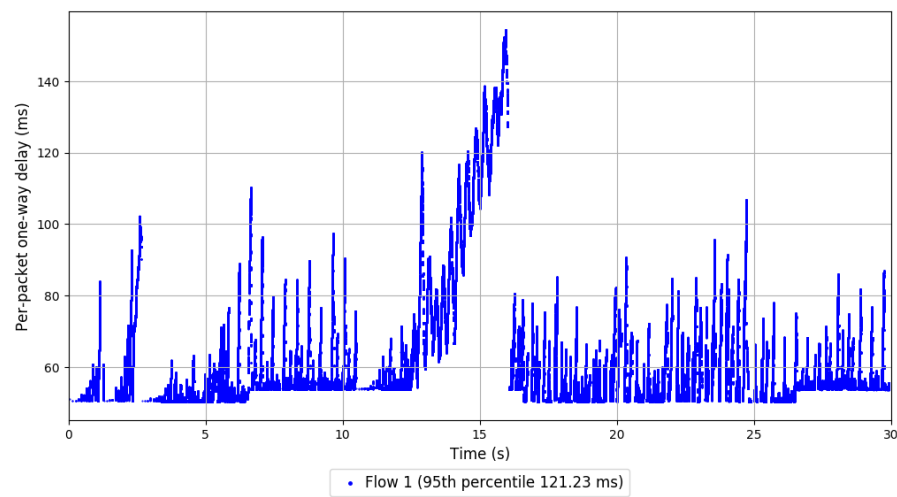
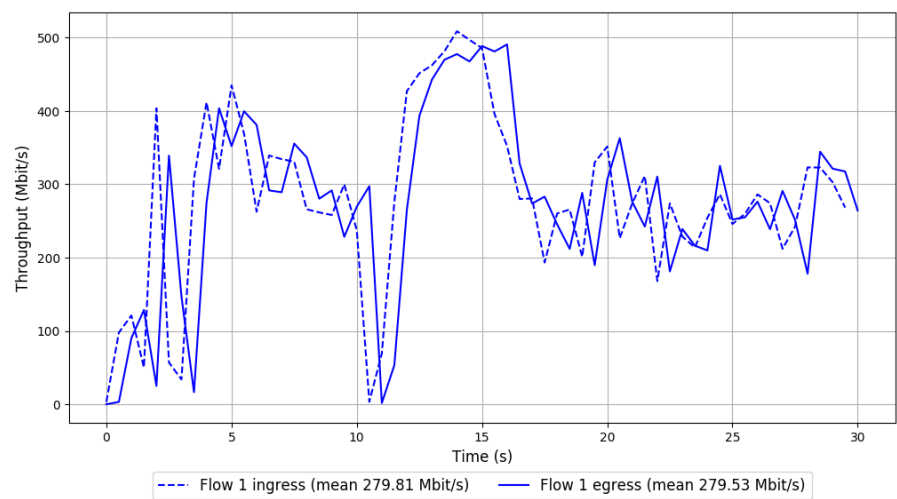


Run 7: Statistics of Verus

Start at: 2018-06-20 18:54:16
End at: 2018-06-20 18:54:46
Local clock offset: -0.109 ms
Remote clock offset: -0.419 ms

Below is generated by plot.py at 2018-06-20 21:38:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 279.53 Mbit/s
95th percentile per-packet one-way delay: 121.231 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 279.53 Mbit/s
95th percentile per-packet one-way delay: 121.231 ms
Loss rate: 0.21%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-06-20 19:15:02

End at: 2018-06-20 19:15:32

Local clock offset: -0.081 ms

Remote clock offset: 1.145 ms

Below is generated by plot.py at 2018-06-20 21:39:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 311.19 Mbit/s

95th percentile per-packet one-way delay: 221.939 ms

Loss rate: 0.60%

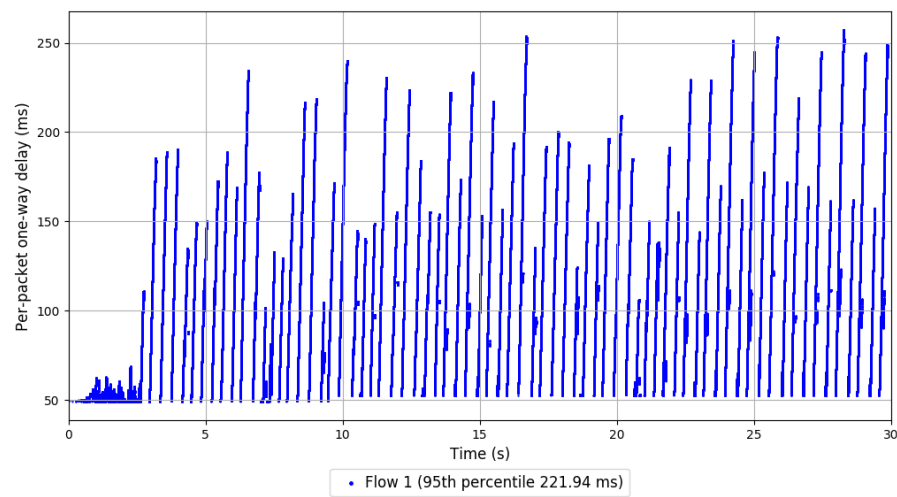
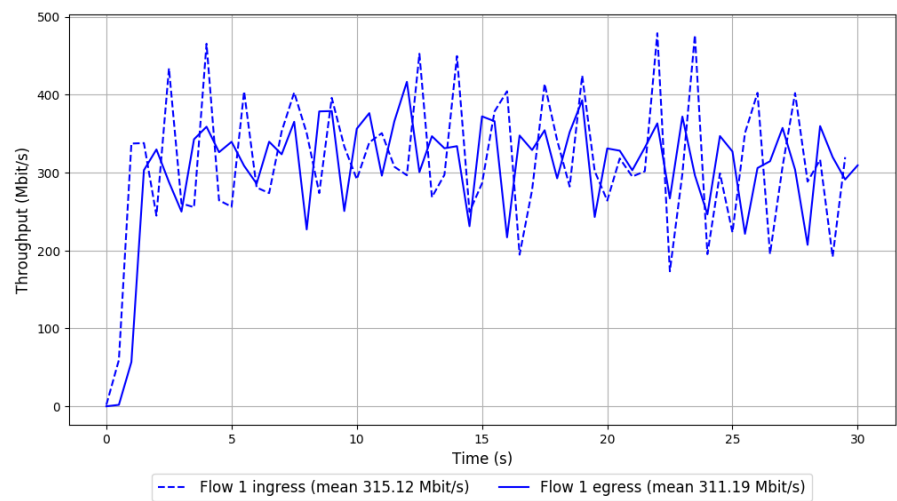
-- Flow 1:

Average throughput: 311.19 Mbit/s

95th percentile per-packet one-way delay: 221.939 ms

Loss rate: 0.60%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-06-20 19:35:55

End at: 2018-06-20 19:36:25

Local clock offset: 0.057 ms

Remote clock offset: 0.171 ms

Below is generated by plot.py at 2018-06-20 21:41:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 279.93 Mbit/s

95th percentile per-packet one-way delay: 163.456 ms

Loss rate: 0.95%

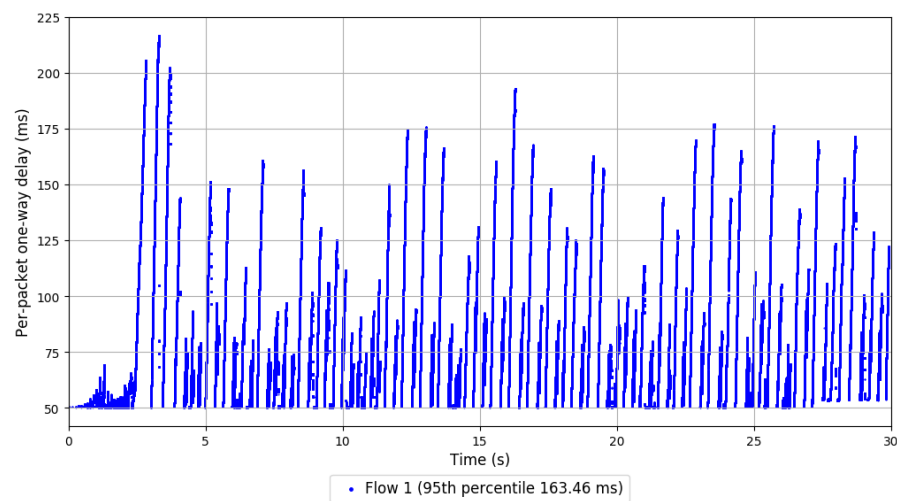
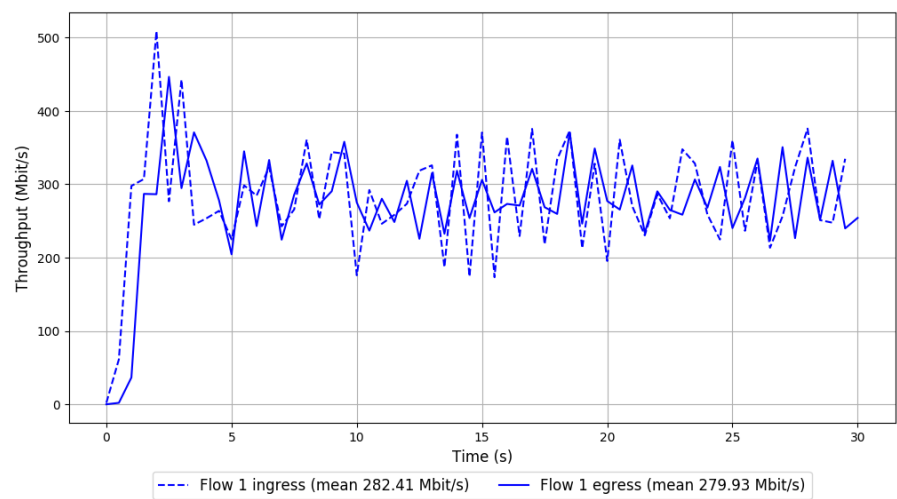
-- Flow 1:

Average throughput: 279.93 Mbit/s

95th percentile per-packet one-way delay: 163.456 ms

Loss rate: 0.95%

Run 9: Report of Verus — Data Link

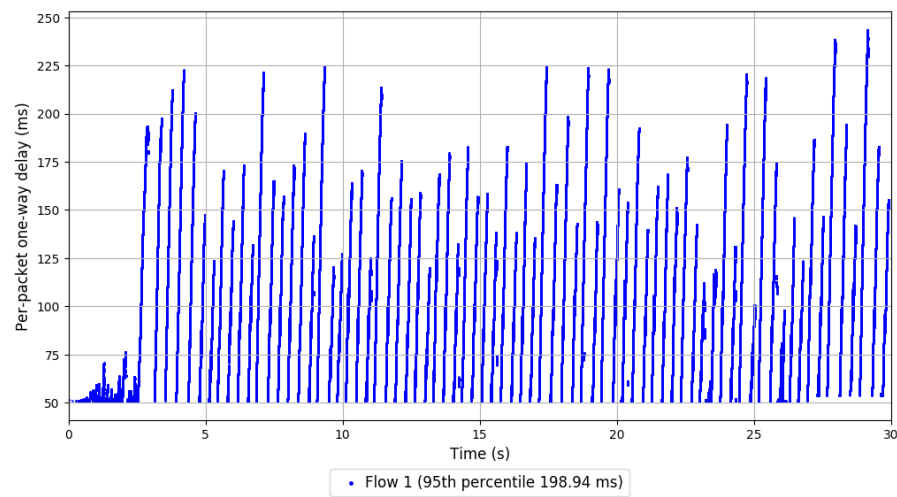
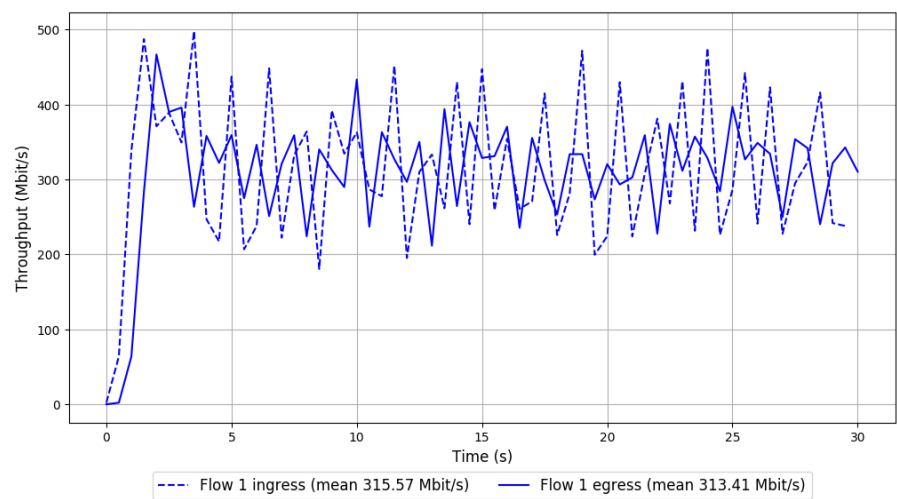


Run 10: Statistics of Verus

Start at: 2018-06-20 19:56:25
End at: 2018-06-20 19:56:55
Local clock offset: -0.124 ms
Remote clock offset: -0.059 ms

Below is generated by plot.py at 2018-06-20 21:42:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 313.41 Mbit/s
95th percentile per-packet one-way delay: 198.945 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 313.41 Mbit/s
95th percentile per-packet one-way delay: 198.945 ms
Loss rate: 0.35%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-06-20 16:48:19

End at: 2018-06-20 16:48:49

Local clock offset: -0.12 ms

Remote clock offset: 1.262 ms

Below is generated by plot.py at 2018-06-20 21:43:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 357.10 Mbit/s

95th percentile per-packet one-way delay: 54.766 ms

Loss rate: 0.34%

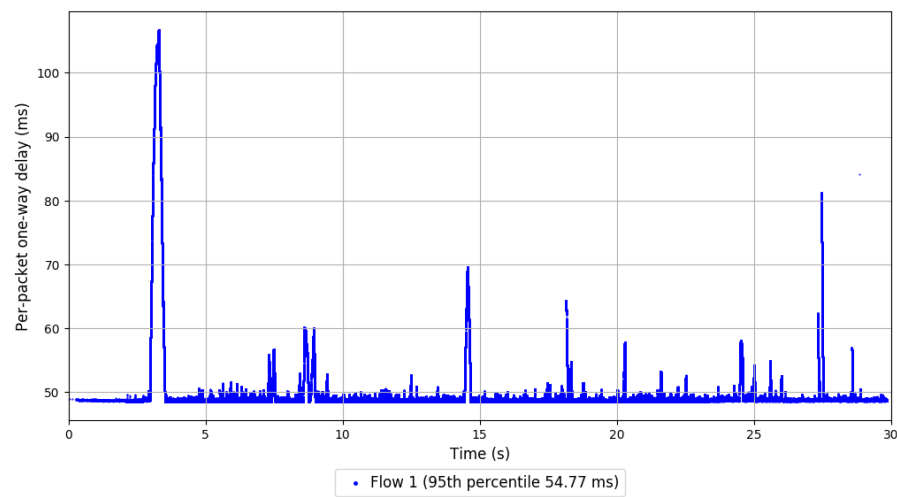
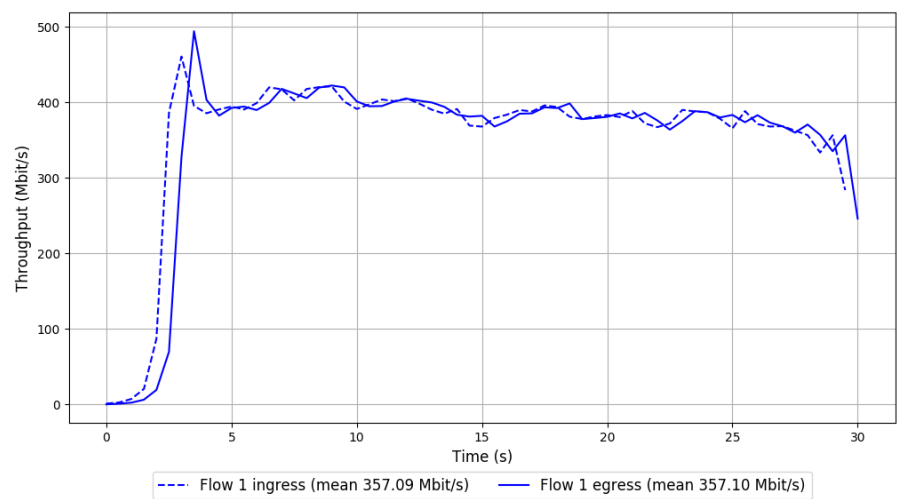
-- Flow 1:

Average throughput: 357.10 Mbit/s

95th percentile per-packet one-way delay: 54.766 ms

Loss rate: 0.34%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-06-20 17:08:47

End at: 2018-06-20 17:09:17

Local clock offset: -0.032 ms

Remote clock offset: 1.054 ms

Below is generated by plot.py at 2018-06-20 21:43:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 322.57 Mbit/s

95th percentile per-packet one-way delay: 54.177 ms

Loss rate: 0.41%

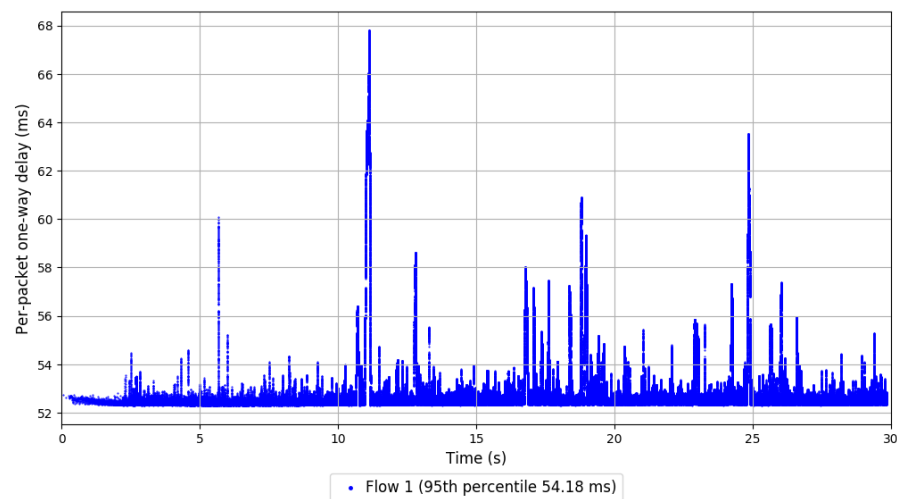
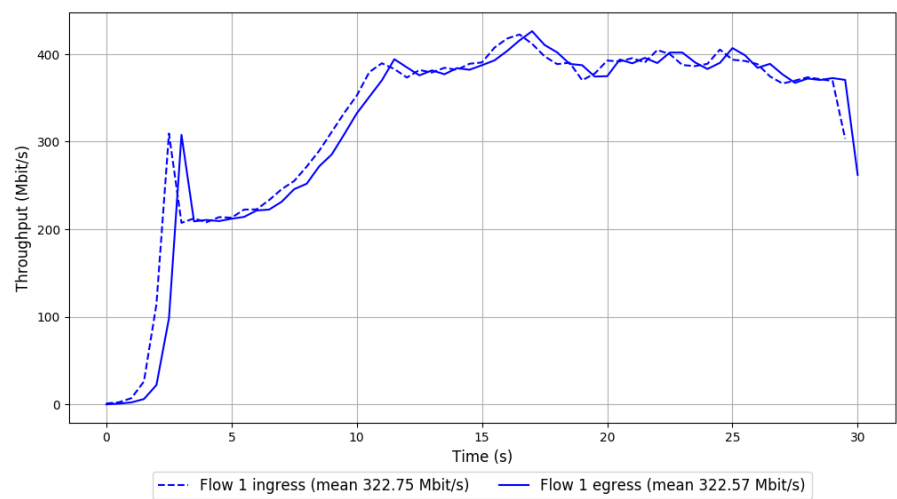
-- Flow 1:

Average throughput: 322.57 Mbit/s

95th percentile per-packet one-way delay: 54.177 ms

Loss rate: 0.41%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-06-20 17:29:34

End at: 2018-06-20 17:30:04

Local clock offset: 0.11 ms

Remote clock offset: 0.181 ms

Below is generated by plot.py at 2018-06-20 21:45:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 385.88 Mbit/s

95th percentile per-packet one-way delay: 54.326 ms

Loss rate: 0.33%

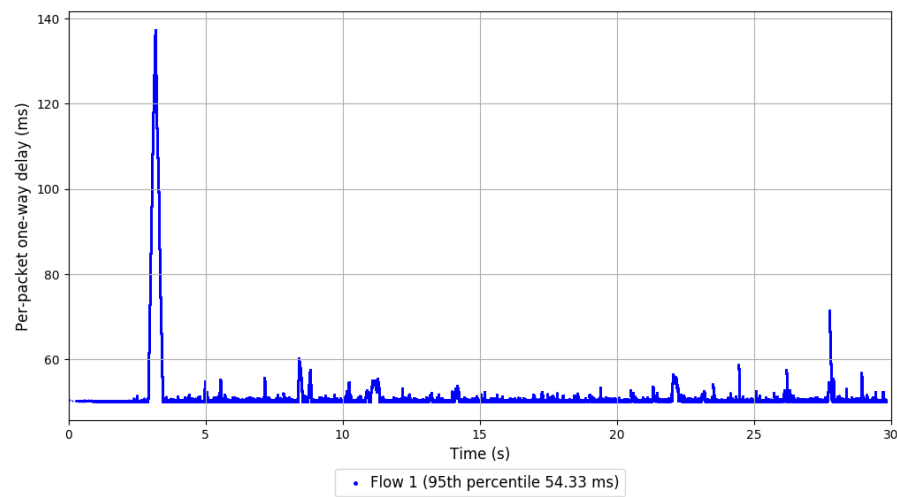
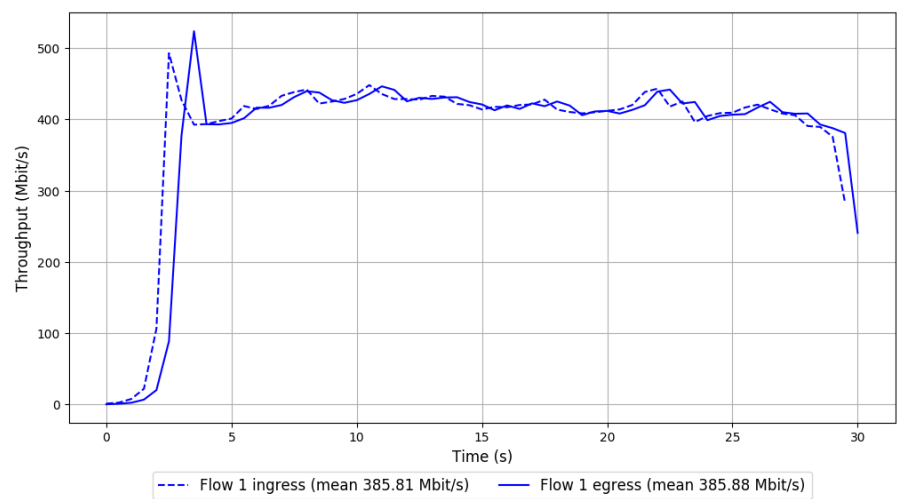
-- Flow 1:

Average throughput: 385.88 Mbit/s

95th percentile per-packet one-way delay: 54.326 ms

Loss rate: 0.33%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-06-20 17:50:03

End at: 2018-06-20 17:50:34

Local clock offset: 0.125 ms

Remote clock offset: -1.049 ms

Below is generated by plot.py at 2018-06-20 21:45:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 405.57 Mbit/s

95th percentile per-packet one-way delay: 54.206 ms

Loss rate: 0.38%

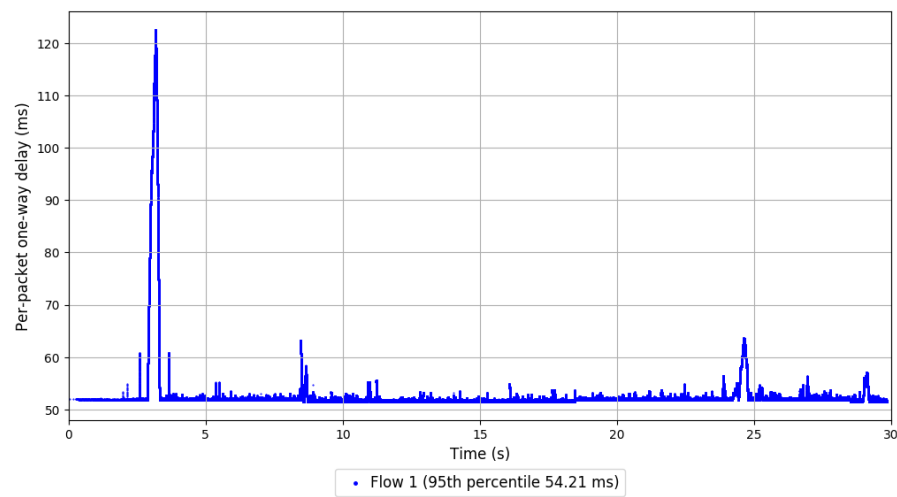
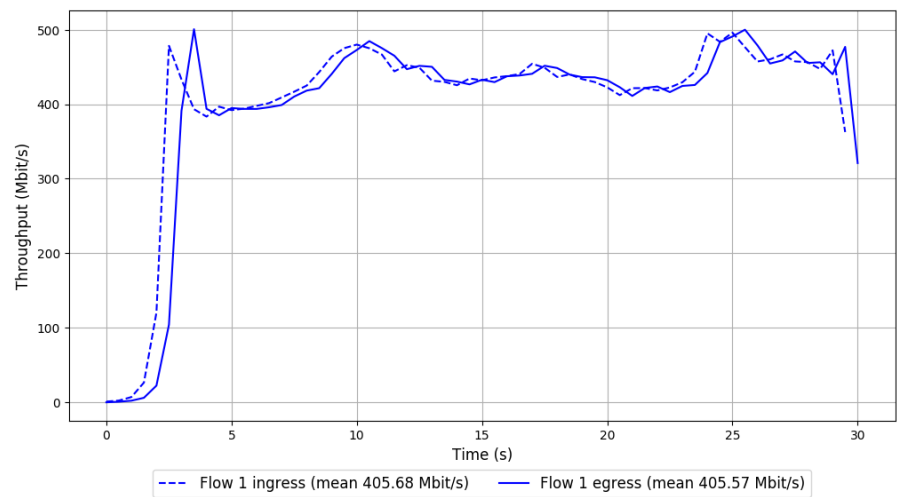
-- Flow 1:

Average throughput: 405.57 Mbit/s

95th percentile per-packet one-way delay: 54.206 ms

Loss rate: 0.38%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-06-20 18:10:30

End at: 2018-06-20 18:11:00

Local clock offset: -0.072 ms

Remote clock offset: 0.278 ms

Below is generated by plot.py at 2018-06-20 21:45:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 366.59 Mbit/s

95th percentile per-packet one-way delay: 51.656 ms

Loss rate: 0.37%

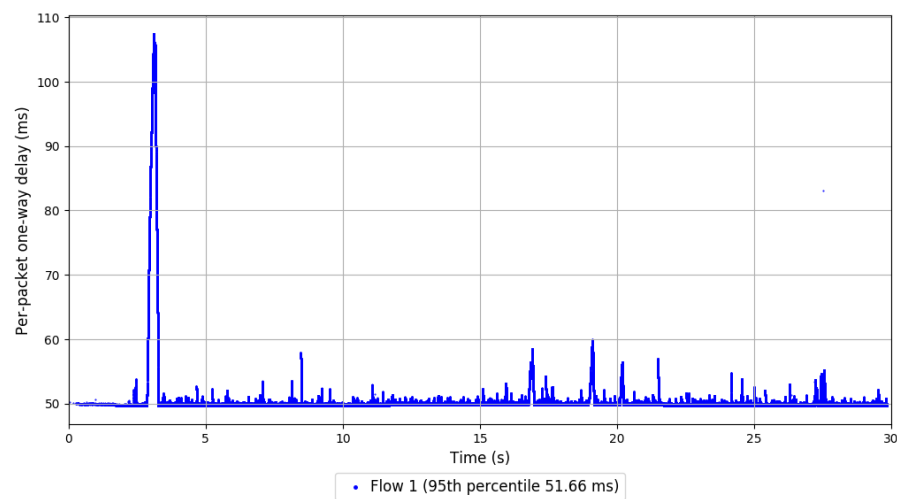
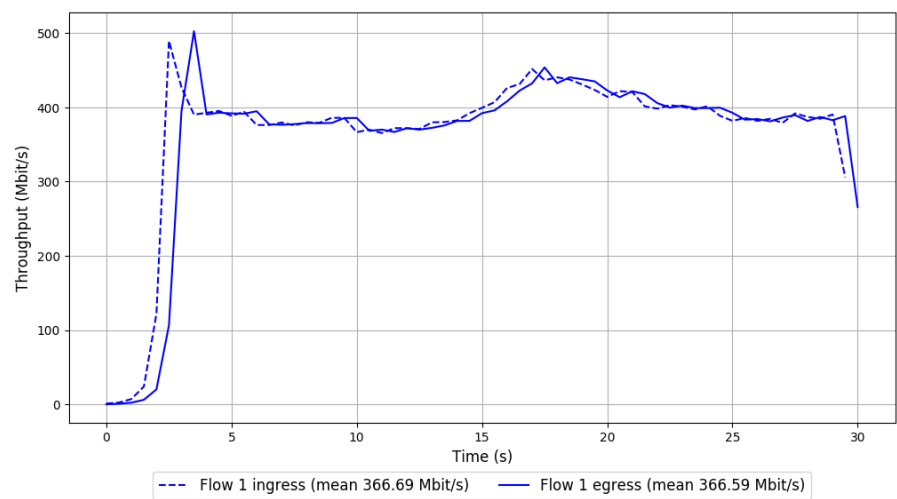
-- Flow 1:

Average throughput: 366.59 Mbit/s

95th percentile per-packet one-way delay: 51.656 ms

Loss rate: 0.37%

Run 5: Report of PCC-Vivace — Data Link

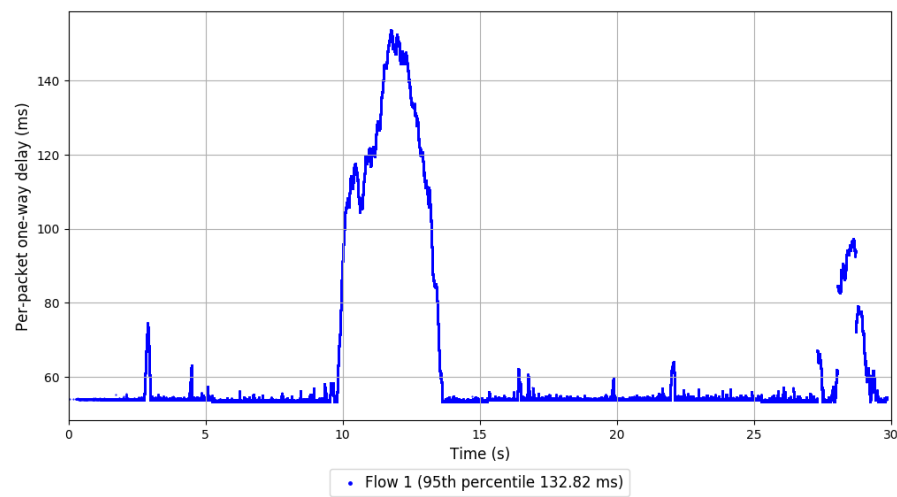
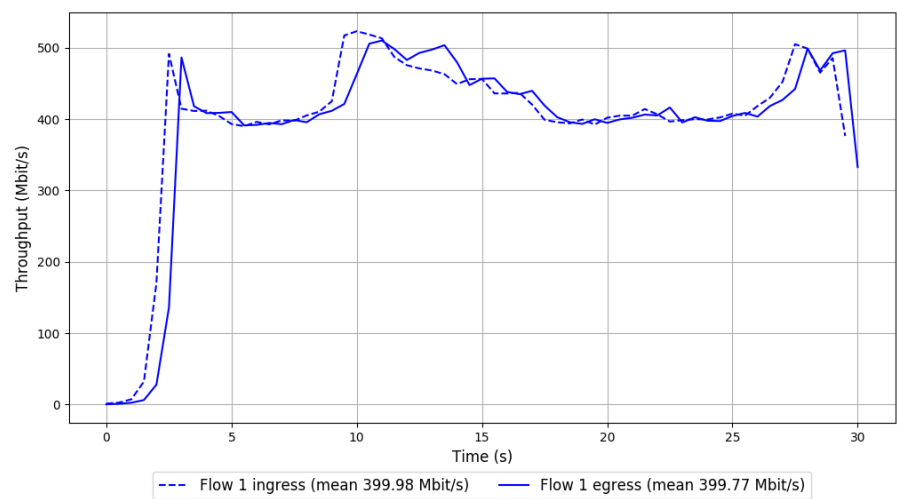


Run 6: Statistics of PCC-Vivace

Start at: 2018-06-20 18:31:17
End at: 2018-06-20 18:31:47
Local clock offset: 0.006 ms
Remote clock offset: -0.165 ms

Below is generated by plot.py at 2018-06-20 21:46:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 399.77 Mbit/s
95th percentile per-packet one-way delay: 132.824 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 399.77 Mbit/s
95th percentile per-packet one-way delay: 132.824 ms
Loss rate: 0.41%

Run 6: Report of PCC-Vivace — Data Link

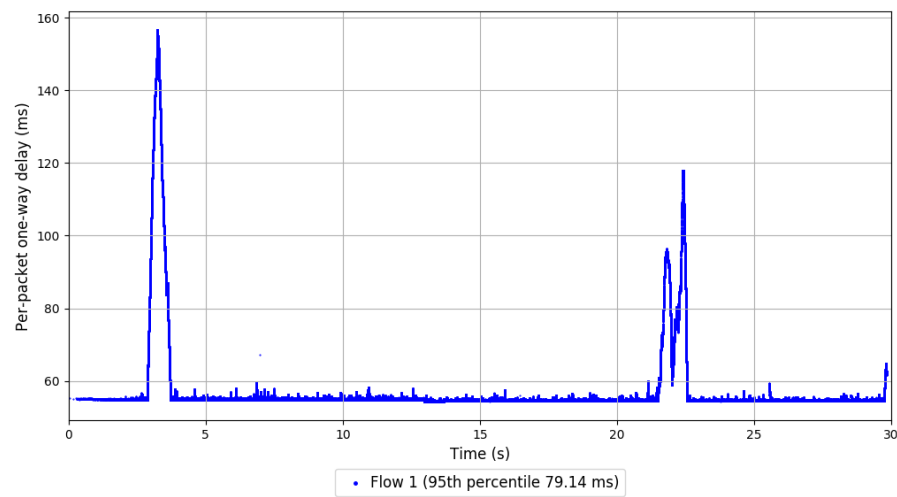
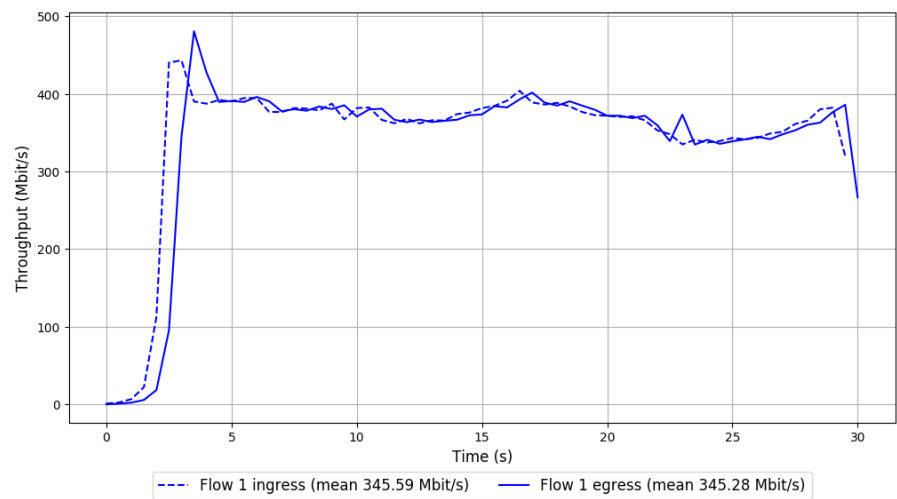


Run 7: Statistics of PCC-Vivace

Start at: 2018-06-20 18:51:29
End at: 2018-06-20 18:51:59
Local clock offset: -0.212 ms
Remote clock offset: -1.504 ms

Below is generated by plot.py at 2018-06-20 21:46:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 345.28 Mbit/s
95th percentile per-packet one-way delay: 79.142 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 345.28 Mbit/s
95th percentile per-packet one-way delay: 79.142 ms
Loss rate: 0.45%

Run 7: Report of PCC-Vivace — Data Link

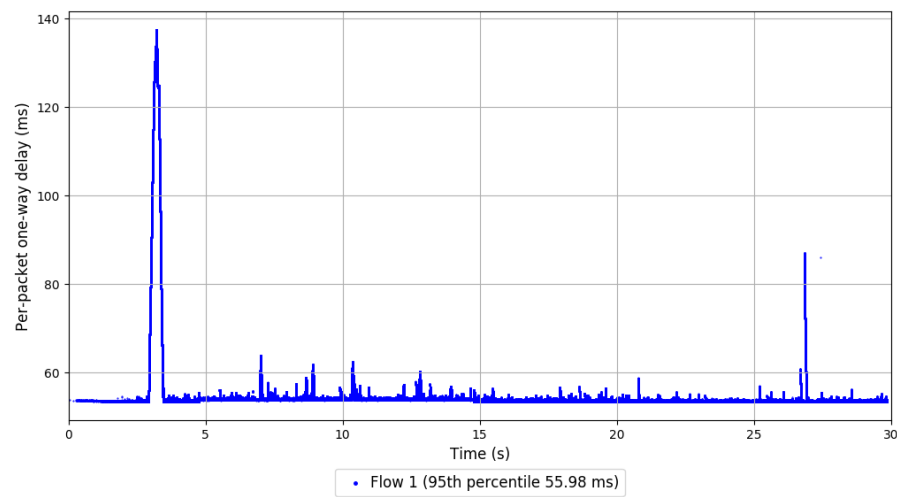
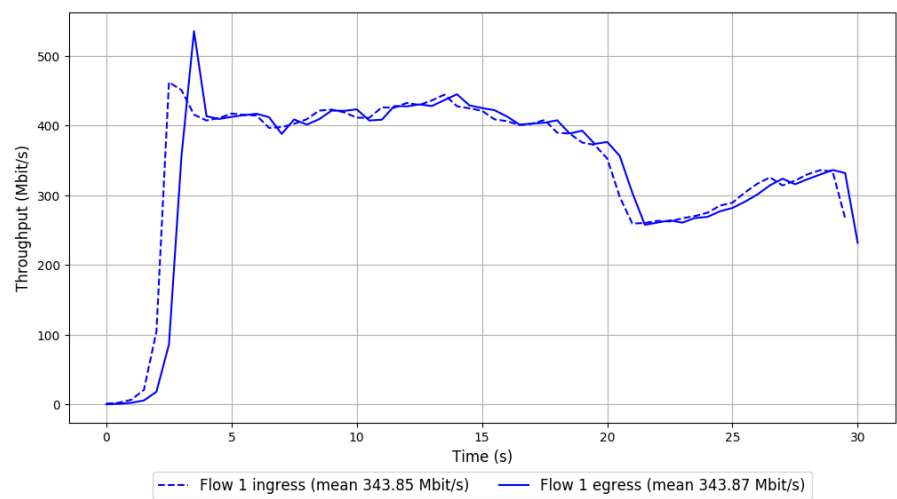


Run 8: Statistics of PCC-Vivace

Start at: 2018-06-20 19:12:17
End at: 2018-06-20 19:12:47
Local clock offset: -0.071 ms
Remote clock offset: -0.196 ms

Below is generated by plot.py at 2018-06-20 21:47:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 343.87 Mbit/s
95th percentile per-packet one-way delay: 55.984 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 343.87 Mbit/s
95th percentile per-packet one-way delay: 55.984 ms
Loss rate: 0.35%

Run 8: Report of PCC-Vivace — Data Link

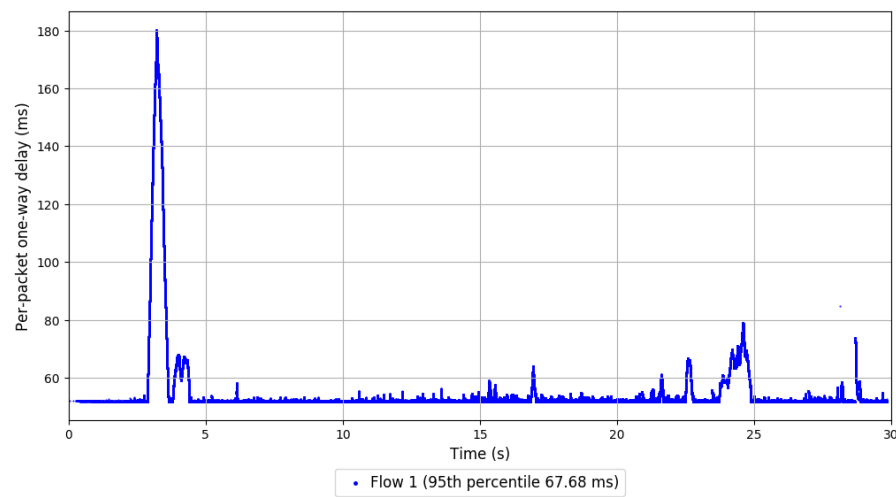
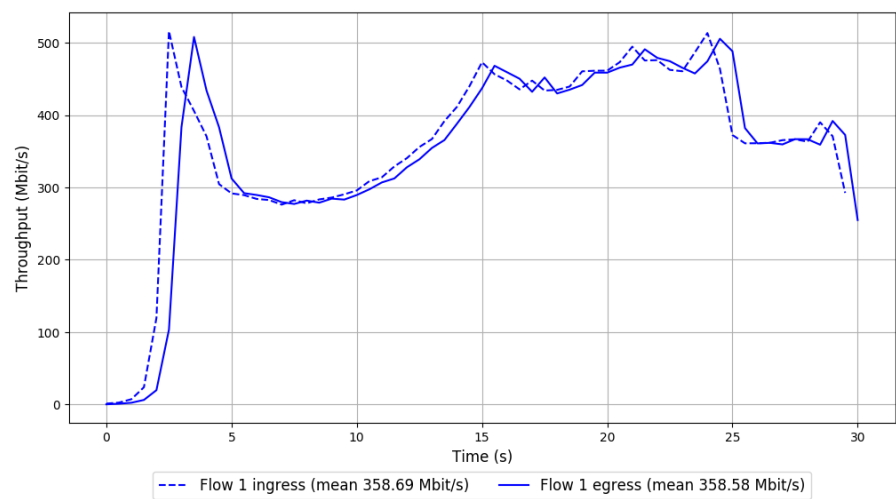


Run 9: Statistics of PCC-Vivace

Start at: 2018-06-20 19:33:05
End at: 2018-06-20 19:33:35
Local clock offset: -0.013 ms
Remote clock offset: -1.329 ms

Below is generated by plot.py at 2018-06-20 21:47:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 358.58 Mbit/s
95th percentile per-packet one-way delay: 67.678 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 358.58 Mbit/s
95th percentile per-packet one-way delay: 67.678 ms
Loss rate: 0.38%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-06-20 19:53:37

End at: 2018-06-20 19:54:07

Local clock offset: 0.087 ms

Remote clock offset: 0.282 ms

Below is generated by plot.py at 2018-06-20 21:47:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 373.20 Mbit/s

95th percentile per-packet one-way delay: 56.724 ms

Loss rate: 0.39%

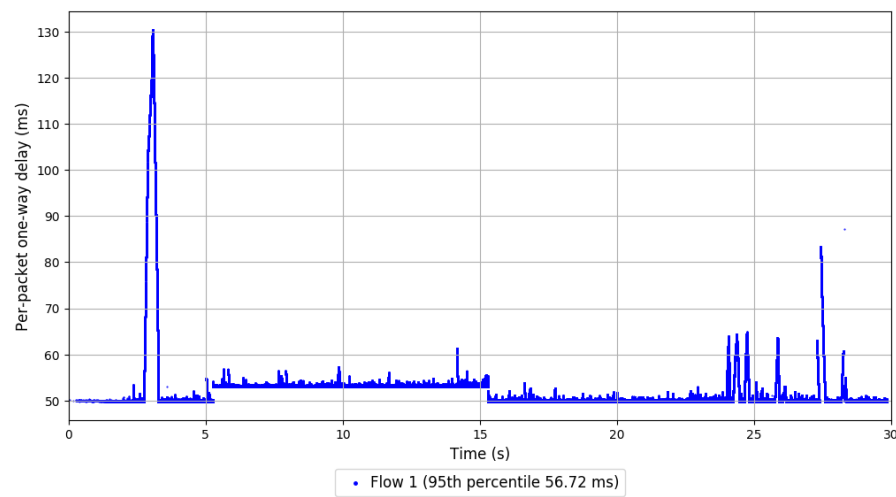
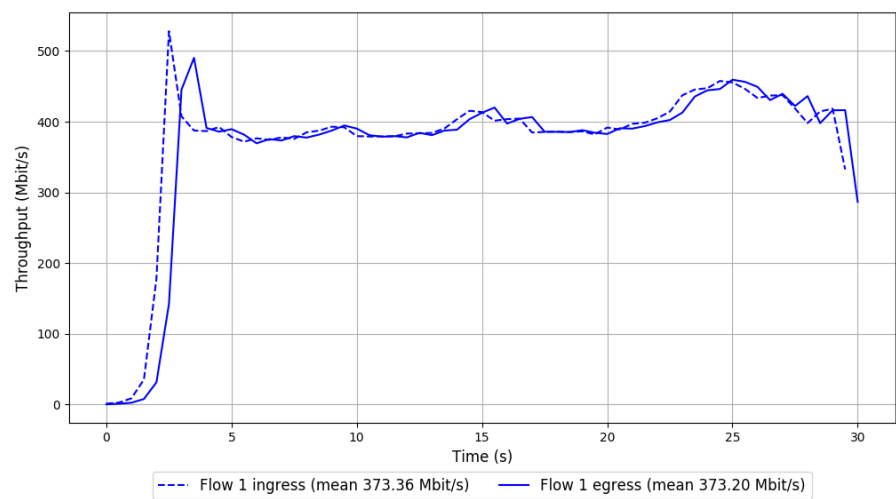
-- Flow 1:

Average throughput: 373.20 Mbit/s

95th percentile per-packet one-way delay: 56.724 ms

Loss rate: 0.39%

Run 10: Report of PCC-Vivace — Data Link

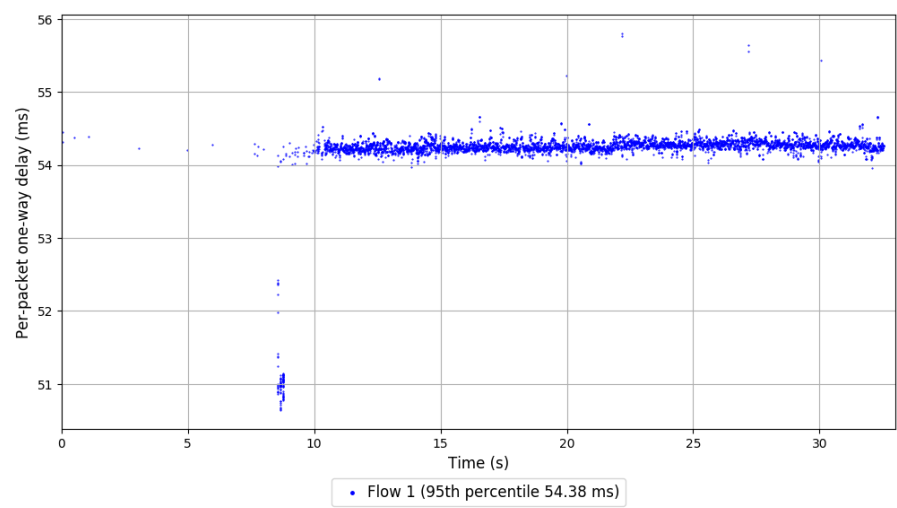
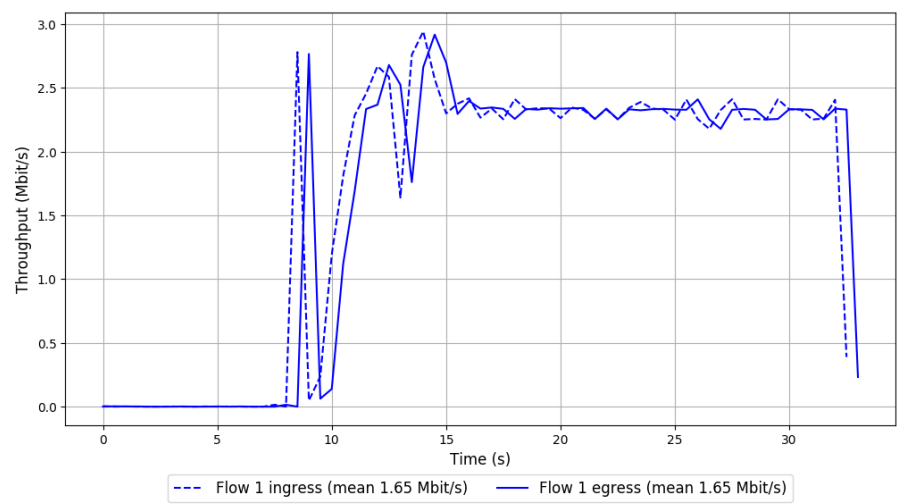


Run 1: Statistics of WebRTC media

Start at: 2018-06-20 16:47:13
End at: 2018-06-20 16:47:43
Local clock offset: 0.119 ms
Remote clock offset: -0.284 ms

Below is generated by plot.py at 2018-06-20 21:47:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.65 Mbit/s
95th percentile per-packet one-way delay: 54.383 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 1.65 Mbit/s
95th percentile per-packet one-way delay: 54.383 ms
Loss rate: 0.43%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-06-20 17:07:42

End at: 2018-06-20 17:08:12

Local clock offset: 0.0 ms

Remote clock offset: 0.06 ms

Below is generated by plot.py at 2018-06-20 21:47:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 50.475 ms

Loss rate: 0.43%

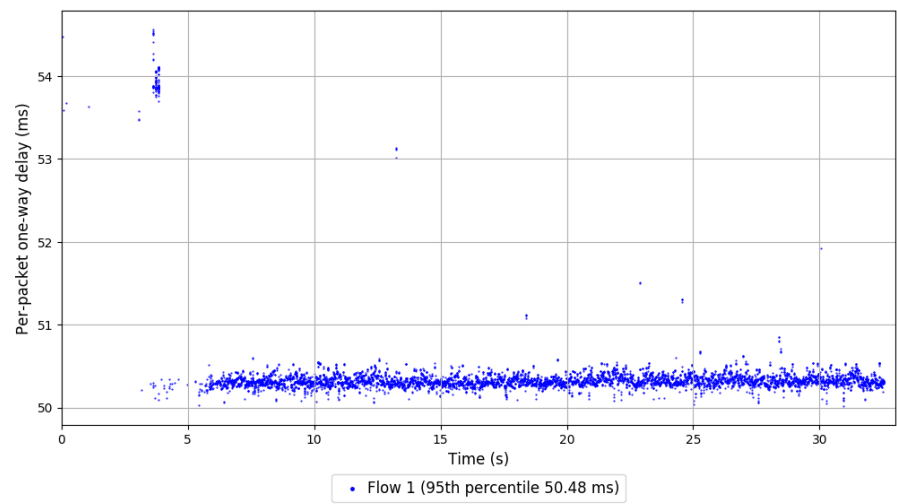
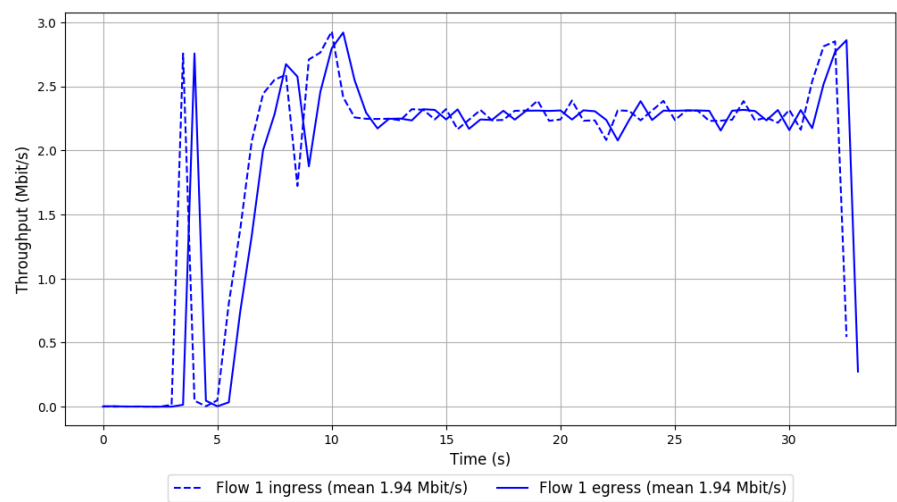
-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 50.475 ms

Loss rate: 0.43%

Run 2: Report of WebRTC media — Data Link

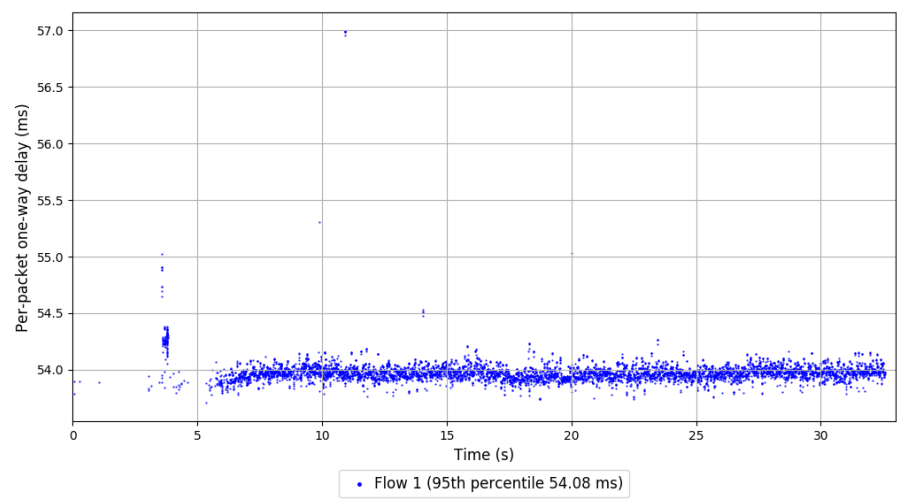
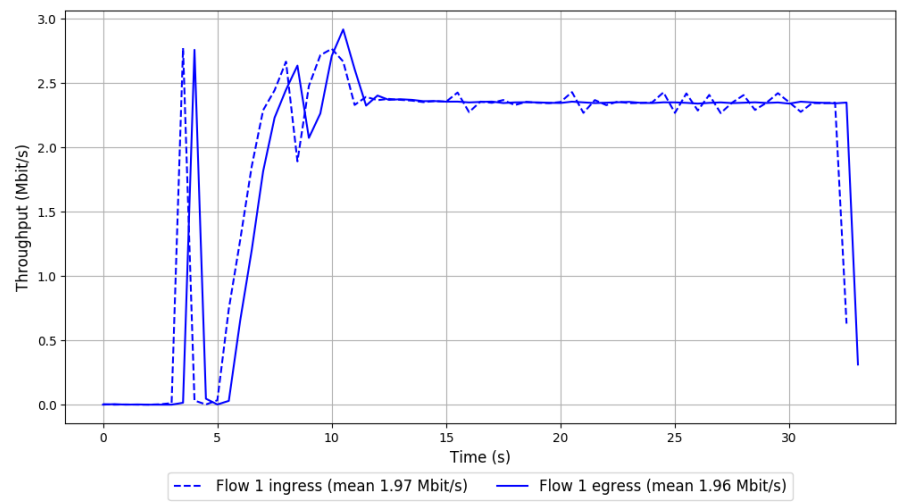


Run 3: Statistics of WebRTC media

Start at: 2018-06-20 17:28:28
End at: 2018-06-20 17:28:58
Local clock offset: -0.03 ms
Remote clock offset: -0.168 ms

Below is generated by plot.py at 2018-06-20 21:47:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 54.081 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 54.081 ms
Loss rate: 0.43%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-06-20 17:48:58

End at: 2018-06-20 17:49:28

Local clock offset: -0.014 ms

Remote clock offset: 0.073 ms

Below is generated by plot.py at 2018-06-20 21:47:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 53.916 ms

Loss rate: 0.36%

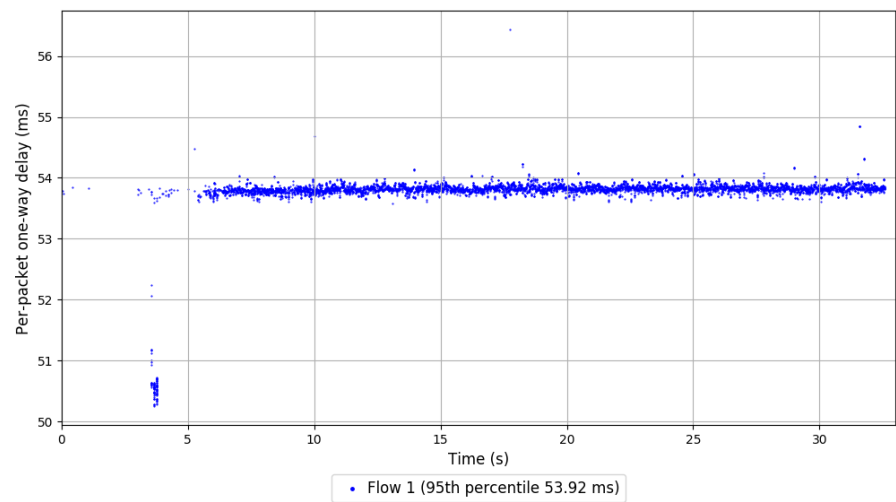
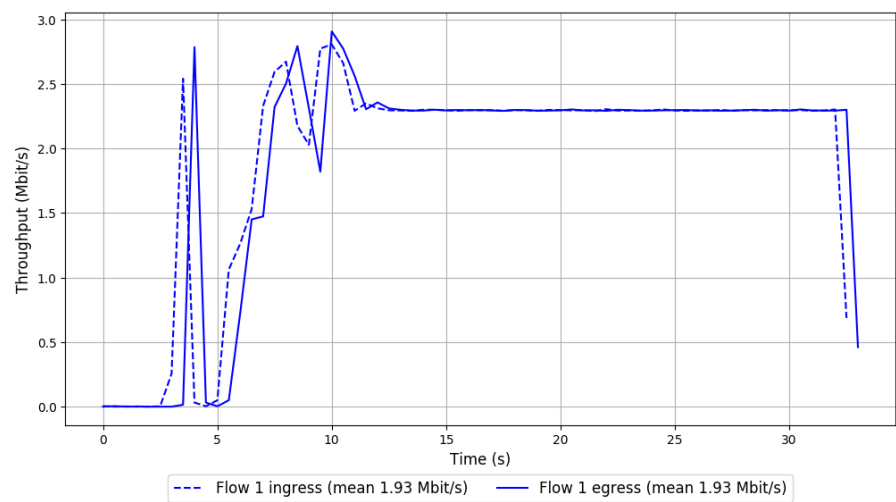
-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 53.916 ms

Loss rate: 0.36%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-06-20 18:09:25

End at: 2018-06-20 18:09:55

Local clock offset: -0.112 ms

Remote clock offset: 0.134 ms

Below is generated by plot.py at 2018-06-20 21:47:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 53.757 ms

Loss rate: 0.37%

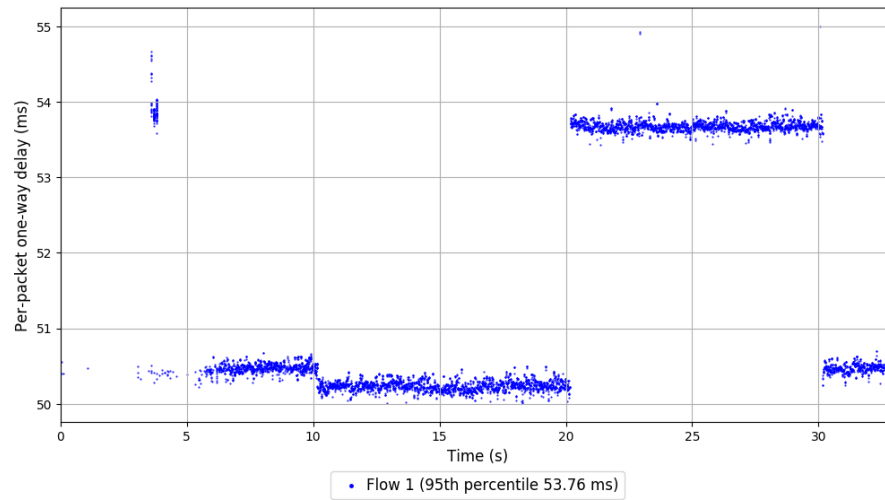
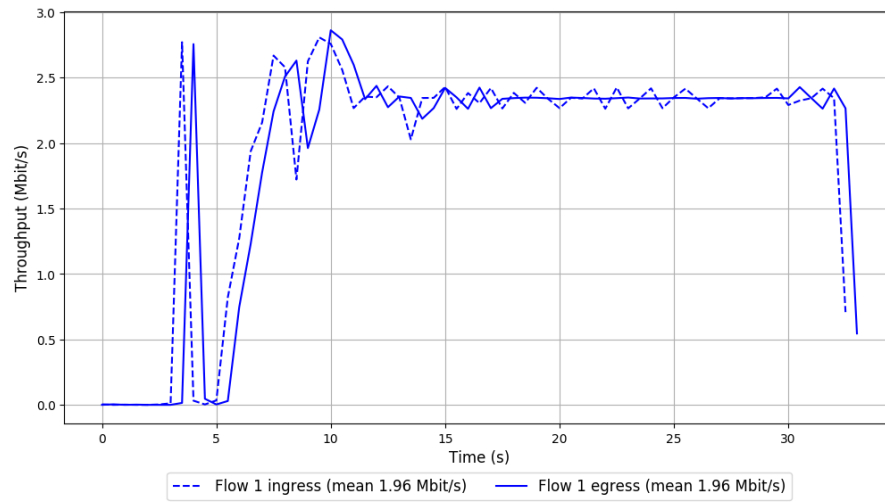
-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 53.757 ms

Loss rate: 0.37%

Run 5: Report of WebRTC media — Data Link

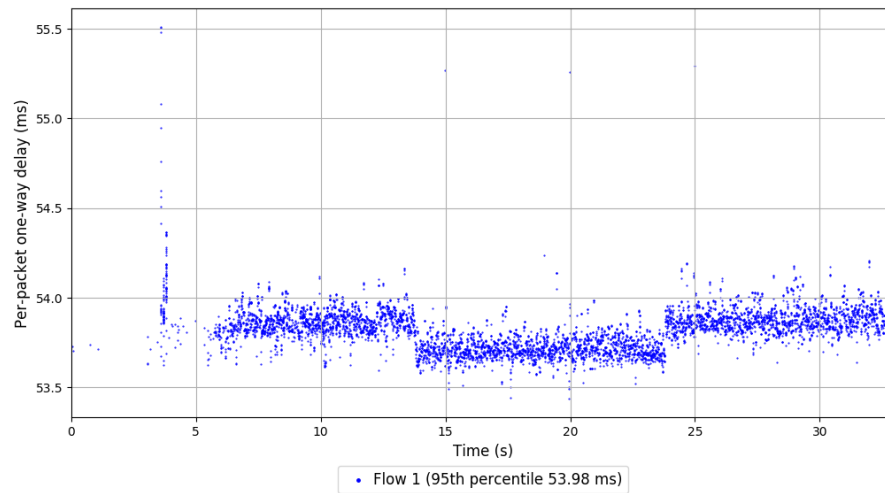
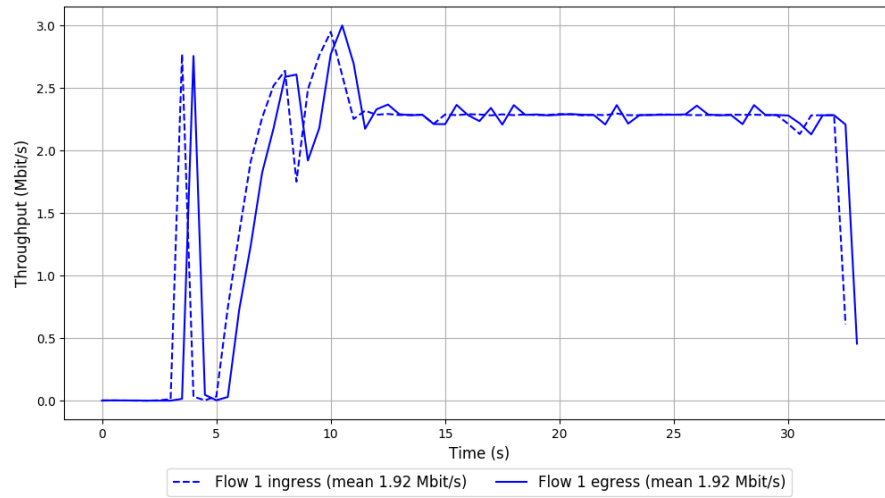


Run 6: Statistics of WebRTC media

Start at: 2018-06-20 18:30:11
End at: 2018-06-20 18:30:41
Local clock offset: -0.011 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2018-06-20 21:47:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.92 Mbit/s
95th percentile per-packet one-way delay: 53.984 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 1.92 Mbit/s
95th percentile per-packet one-way delay: 53.984 ms
Loss rate: 0.37%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-06-20 18:50:23

End at: 2018-06-20 18:50:53

Local clock offset: 0.075 ms

Remote clock offset: 1.177 ms

Below is generated by plot.py at 2018-06-20 21:47:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 49.080 ms

Loss rate: 0.40%

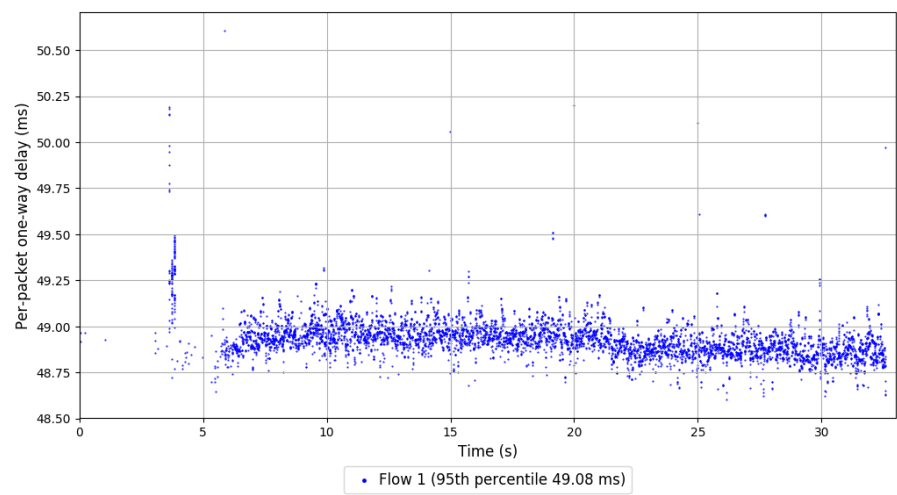
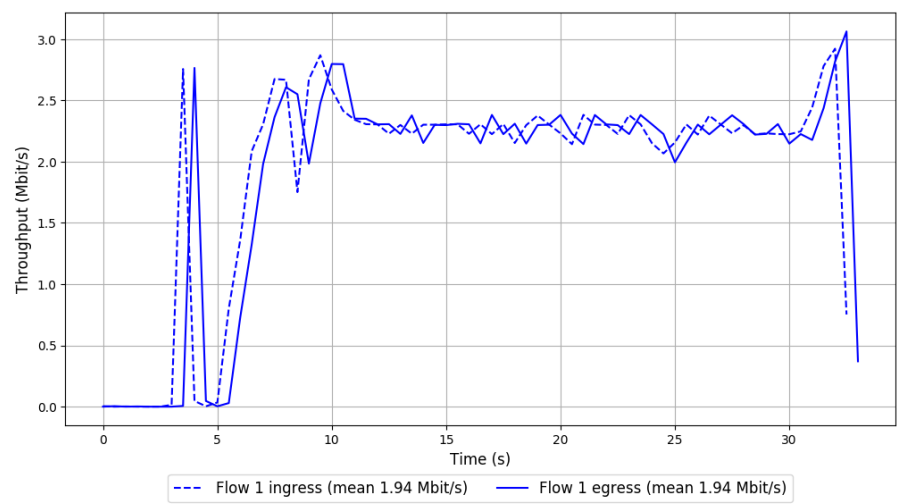
-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 49.080 ms

Loss rate: 0.40%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-06-20 19:11:11

End at: 2018-06-20 19:11:41

Local clock offset: 0.048 ms

Remote clock offset: 0.262 ms

Below is generated by plot.py at 2018-06-20 21:47:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 50.125 ms

Loss rate: 0.37%

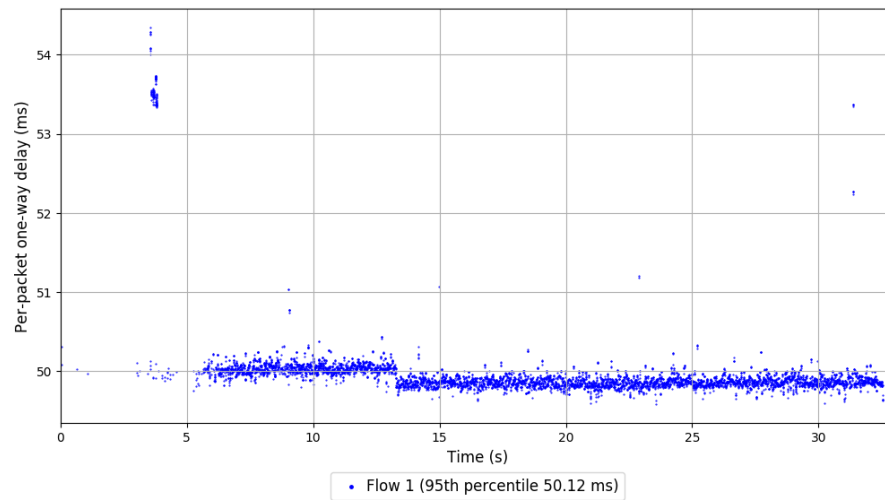
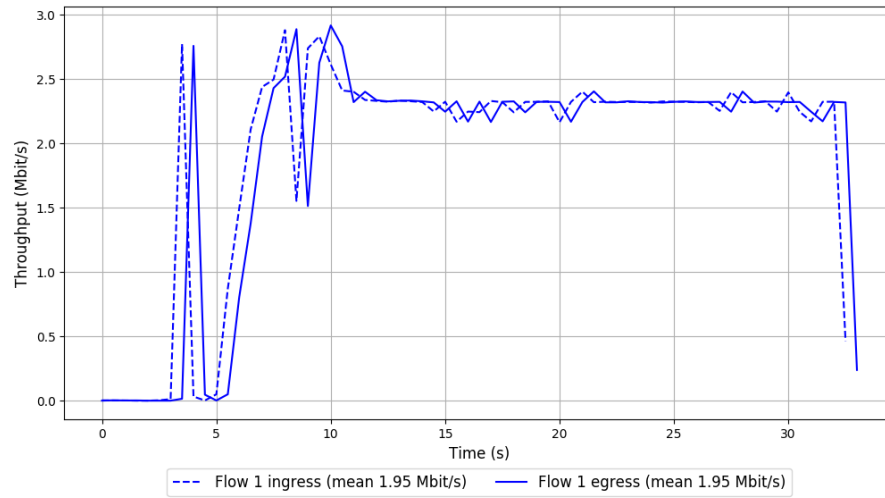
-- Flow 1:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 50.125 ms

Loss rate: 0.37%

Run 8: Report of WebRTC media — Data Link

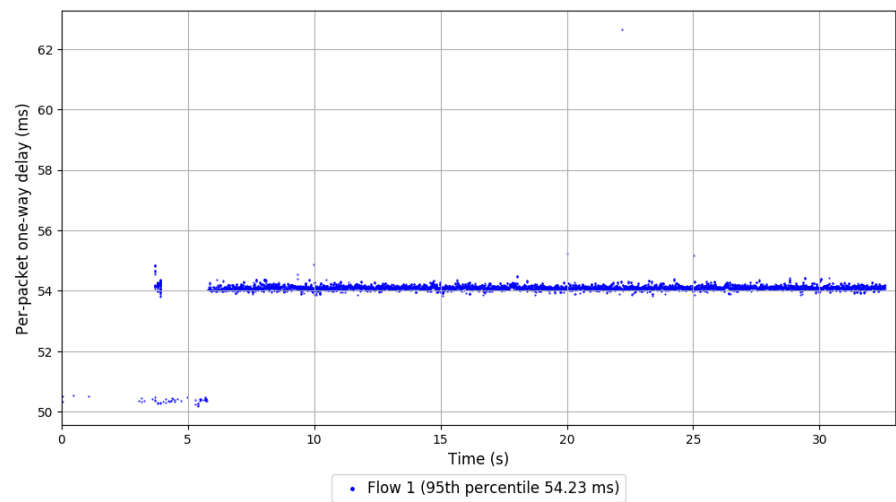
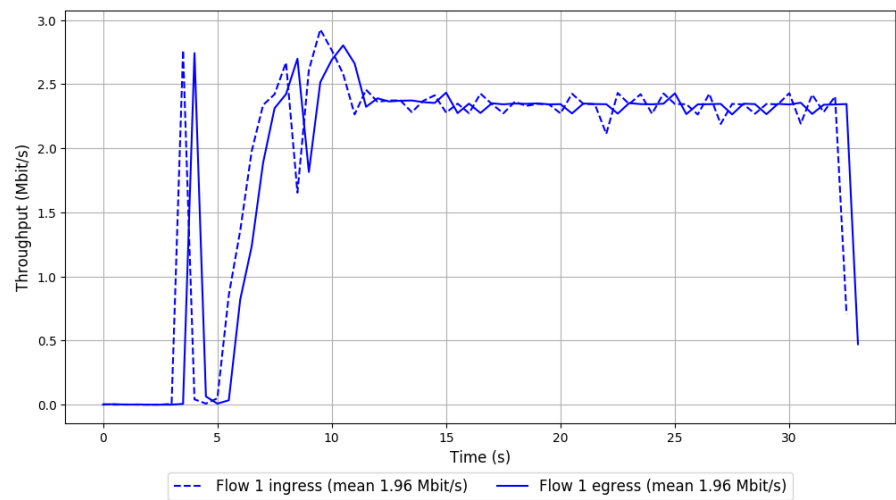


Run 9: Statistics of WebRTC media

Start at: 2018-06-20 19:31:59
End at: 2018-06-20 19:32:29
Local clock offset: 0.062 ms
Remote clock offset: -0.221 ms

Below is generated by plot.py at 2018-06-20 21:47:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 54.229 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 54.229 ms
Loss rate: 0.43%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-20 19:52:31

End at: 2018-06-20 19:53:01

Local clock offset: -0.094 ms

Remote clock offset: 0.262 ms

Below is generated by plot.py at 2018-06-20 21:47:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 53.737 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 53.737 ms

Loss rate: 0.37%

Run 10: Report of WebRTC media — Data Link

