

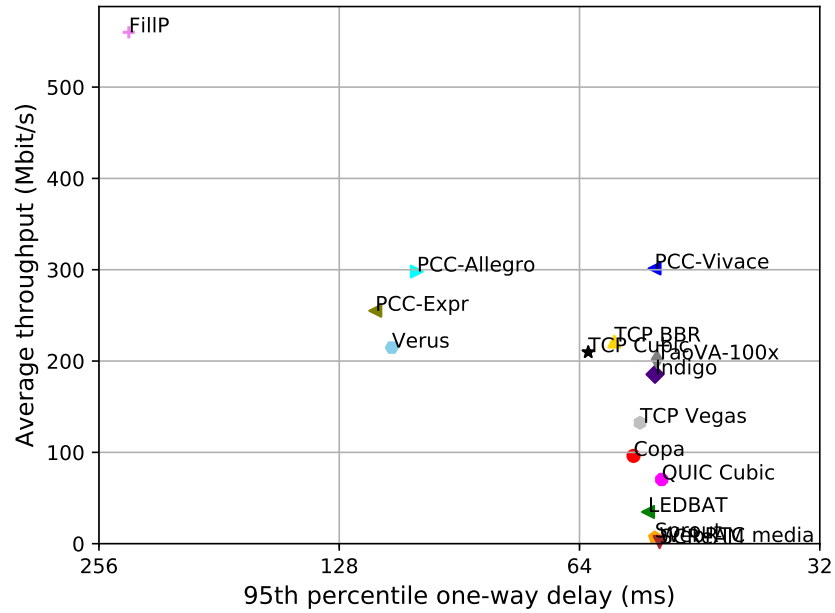
Pantheon Report

Generated at 2018-07-02 03:50:58 (UTC).
Data path: GCE Iowa Ethernet (*remote*) → GCE London Ethernet (*local*).
Repeated the test of 17 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
NTP offsets were measured against `time.google.com` and have been applied to correct the timestamps in logs.

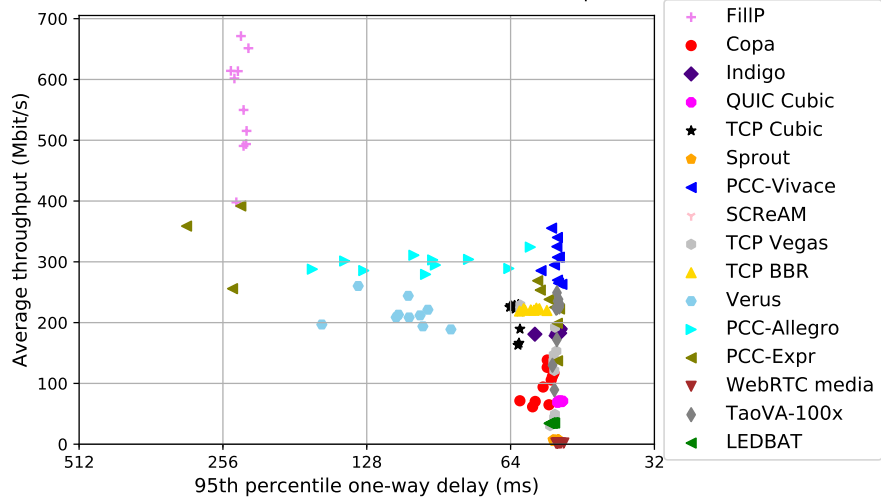
Git summary:

```
branch: master @ 715dc5f09d172e419699f6f17f1cb4c45064f212
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ 30060ab034deb3424347f5cc3db86198eac35d2a
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf5e58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quirk @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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



test from GCE Iowa to GCE London, 10 runs of 30s each per scheme



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	221.37	57.89	0.35
Copa	10	96.14	54.77	0.45
TCP Cubic	10	209.71	62.41	0.26
FillP	10	559.97	234.86	1.09
FillP-Sheep	0	N/A	N/A	N/A
Indigo	9	185.39	51.48	0.36
LEDBAT	10	34.75	52.52	0.67
PCC-Allegro	10	298.02	102.32	0.50
PCC-Expr	10	255.05	115.36	2.18
QUIC Cubic	9	70.30	50.49	0.38
SCReAM	10	0.22	50.76	0.33
Sprout	10	6.87	51.50	0.36
TaoVA-100x	10	201.81	51.20	0.42
TCP Vegas	10	132.38	53.75	0.32
Verus	10	214.75	109.98	0.55
PCC-Vivace	10	301.36	51.55	0.38
WebRTC media	10	1.90	50.81	0.39

Run 1: Statistics of TCP BBR

Start at: 2018-07-01 23:05:28

End at: 2018-07-01 23:05:58

Local clock offset: 0.017 ms

Remote clock offset: -0.006 ms

Below is generated by plot.py at 2018-07-02 02:42:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.99 Mbit/s

95th percentile per-packet one-way delay: 53.731 ms

Loss rate: 0.35%

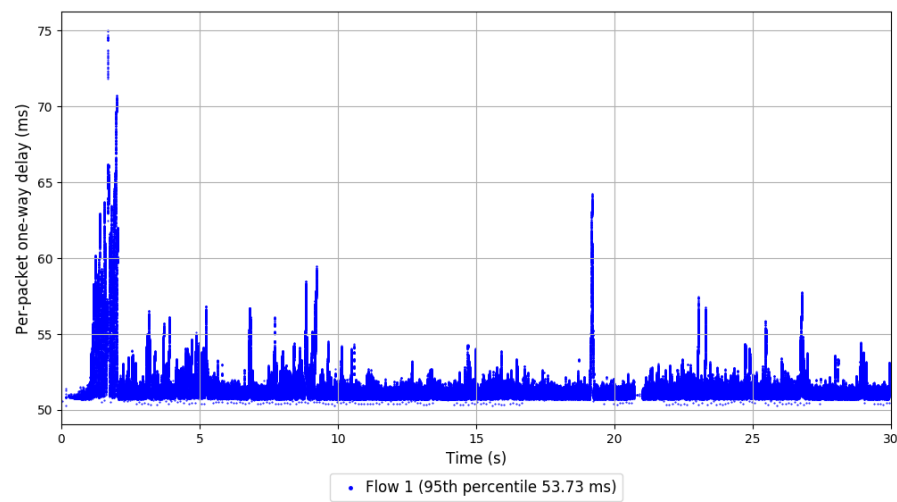
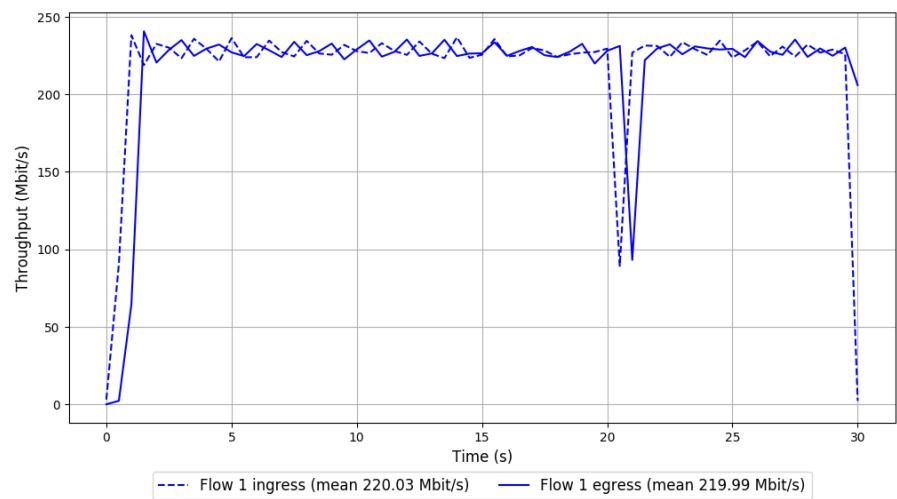
-- Flow 1:

Average throughput: 219.99 Mbit/s

95th percentile per-packet one-way delay: 53.731 ms

Loss rate: 0.35%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-07-01 23:26:17

End at: 2018-07-01 23:26:47

Local clock offset: 0.046 ms

Remote clock offset: 0.058 ms

Below is generated by plot.py at 2018-07-02 02:42:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.11 Mbit/s

95th percentile per-packet one-way delay: 61.300 ms

Loss rate: 0.36%

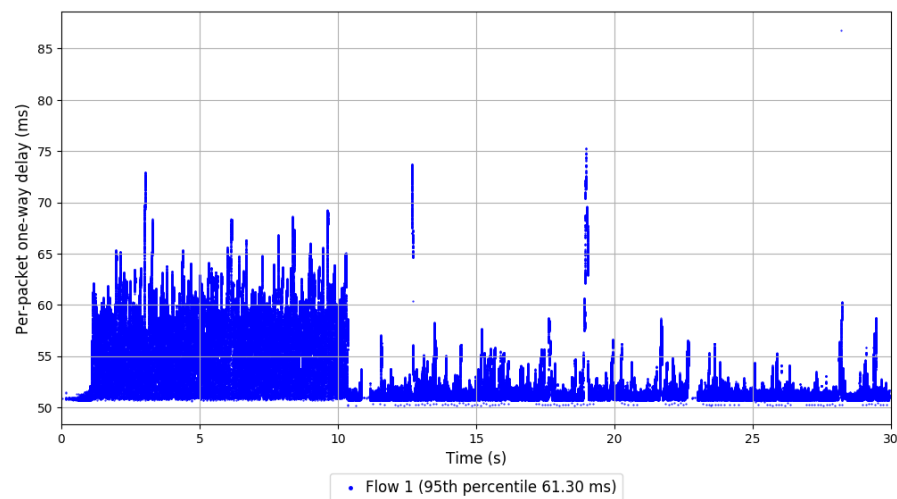
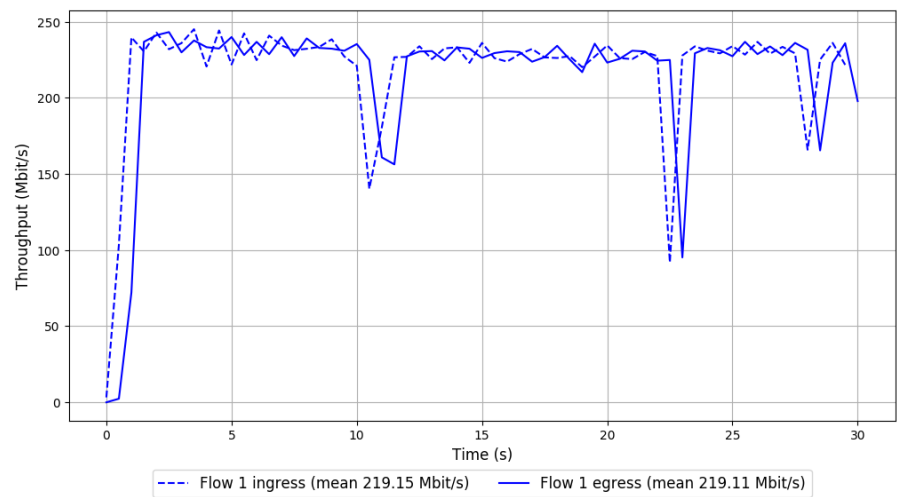
-- Flow 1:

Average throughput: 219.11 Mbit/s

95th percentile per-packet one-way delay: 61.300 ms

Loss rate: 0.36%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-07-01 23:47:18

End at: 2018-07-01 23:47:48

Local clock offset: -0.3 ms

Remote clock offset: 0.084 ms

Below is generated by plot.py at 2018-07-02 02:42:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.21 Mbit/s

95th percentile per-packet one-way delay: 56.562 ms

Loss rate: 0.35%

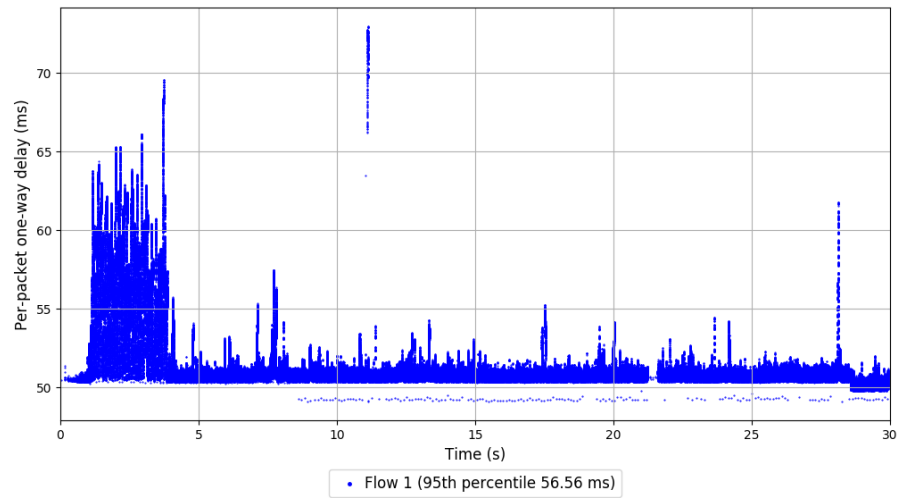
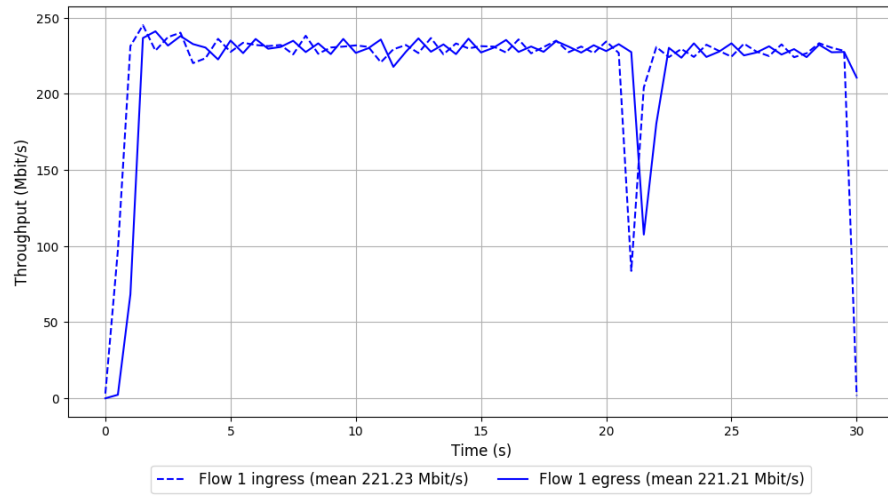
-- Flow 1:

Average throughput: 221.21 Mbit/s

95th percentile per-packet one-way delay: 56.562 ms

Loss rate: 0.35%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-07-02 00:08:29

End at: 2018-07-02 00:08:59

Local clock offset: 0.049 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2018-07-02 02:42:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.86 Mbit/s

95th percentile per-packet one-way delay: 58.068 ms

Loss rate: 0.35%

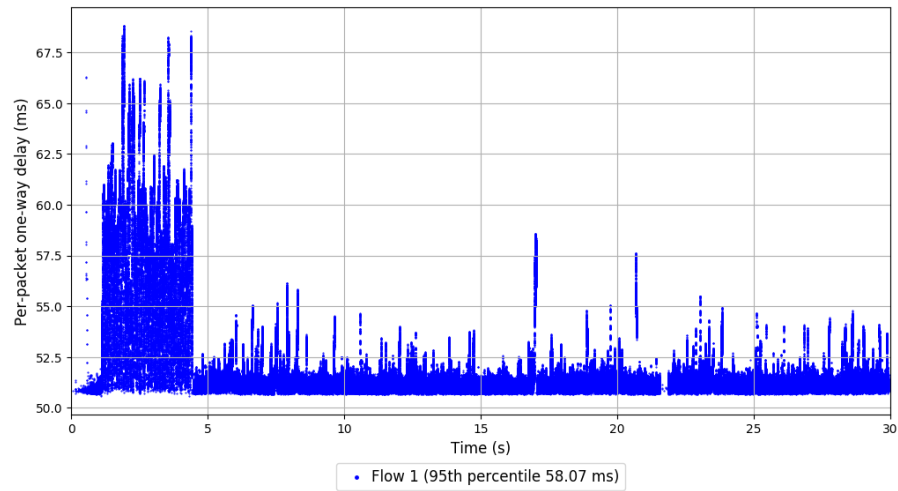
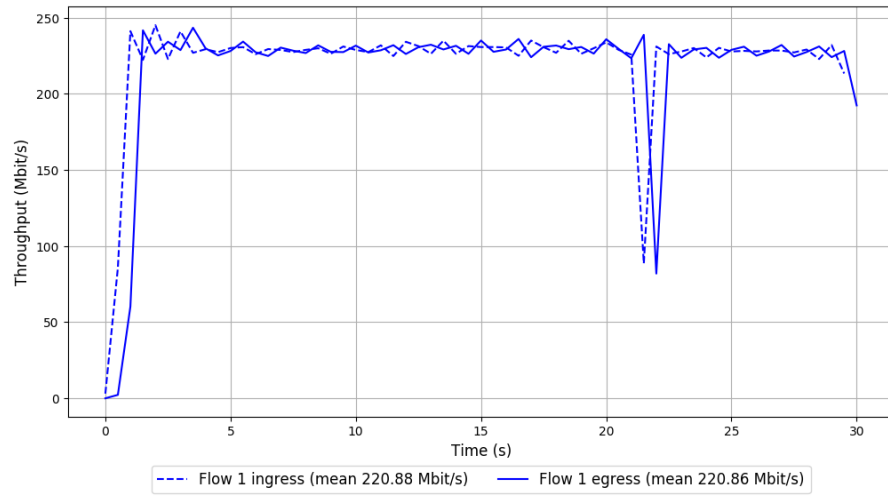
-- Flow 1:

Average throughput: 220.86 Mbit/s

95th percentile per-packet one-way delay: 58.068 ms

Loss rate: 0.35%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-07-02 00:29:28

End at: 2018-07-02 00:29:58

Local clock offset: 0.046 ms

Remote clock offset: -0.123 ms

Below is generated by plot.py at 2018-07-02 02:42:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.93 Mbit/s

95th percentile per-packet one-way delay: 60.070 ms

Loss rate: 0.37%

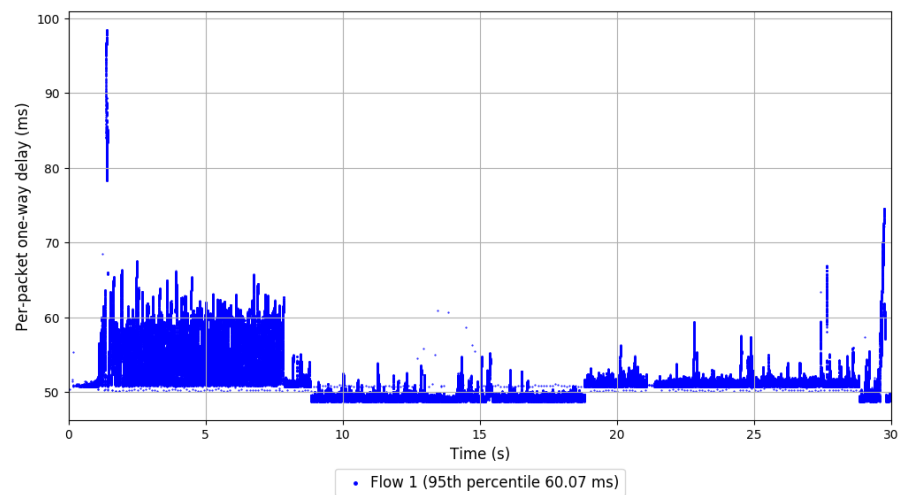
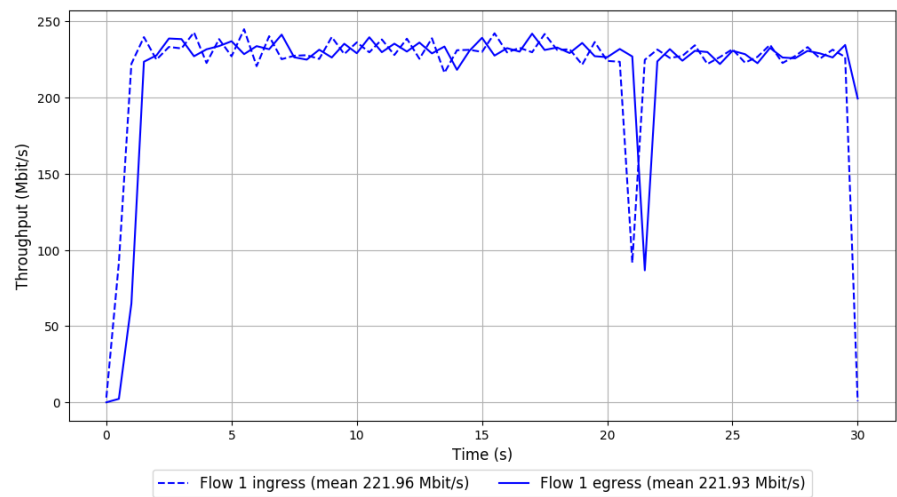
-- Flow 1:

Average throughput: 221.93 Mbit/s

95th percentile per-packet one-way delay: 60.070 ms

Loss rate: 0.37%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-07-02 00:50:08

End at: 2018-07-02 00:50:38

Local clock offset: -0.277 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-07-02 02:42:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.80 Mbit/s

95th percentile per-packet one-way delay: 56.514 ms

Loss rate: 0.37%

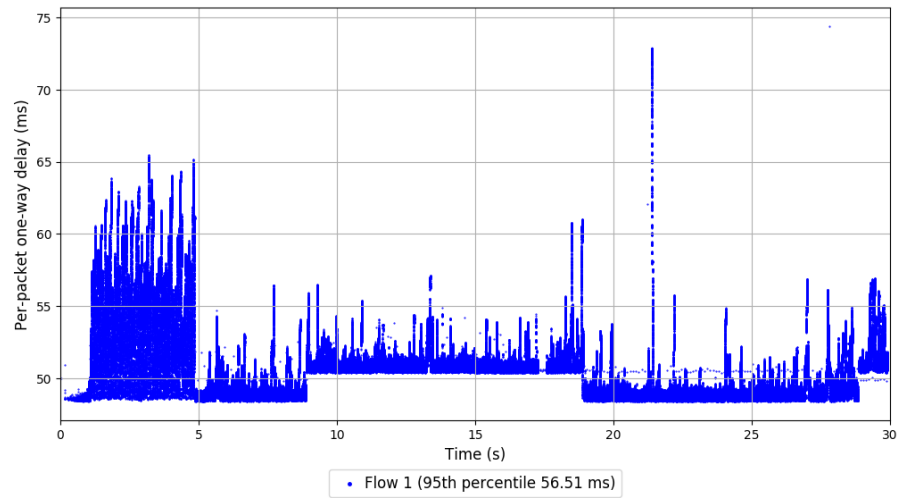
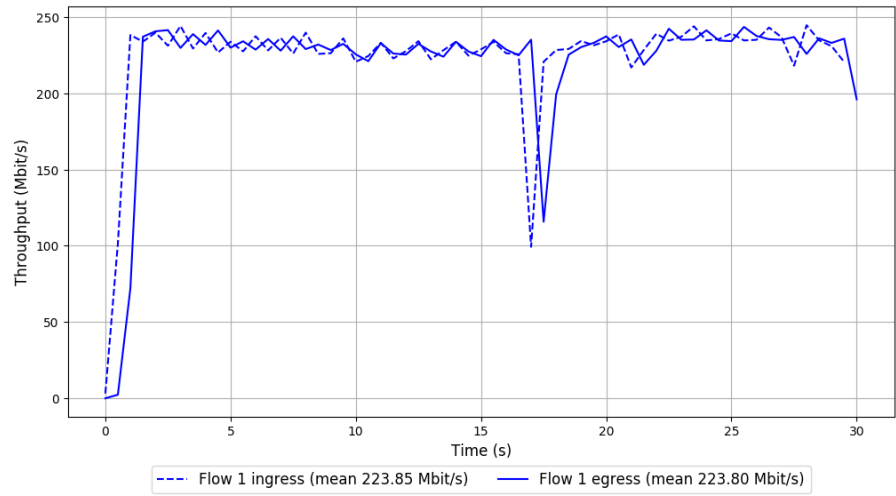
-- Flow 1:

Average throughput: 223.80 Mbit/s

95th percentile per-packet one-way delay: 56.514 ms

Loss rate: 0.37%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-07-02 01:11:08

End at: 2018-07-02 01:11:38

Local clock offset: -0.267 ms

Remote clock offset: 0.15 ms

Below is generated by plot.py at 2018-07-02 02:42:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.42 Mbit/s

95th percentile per-packet one-way delay: 59.656 ms

Loss rate: 0.35%

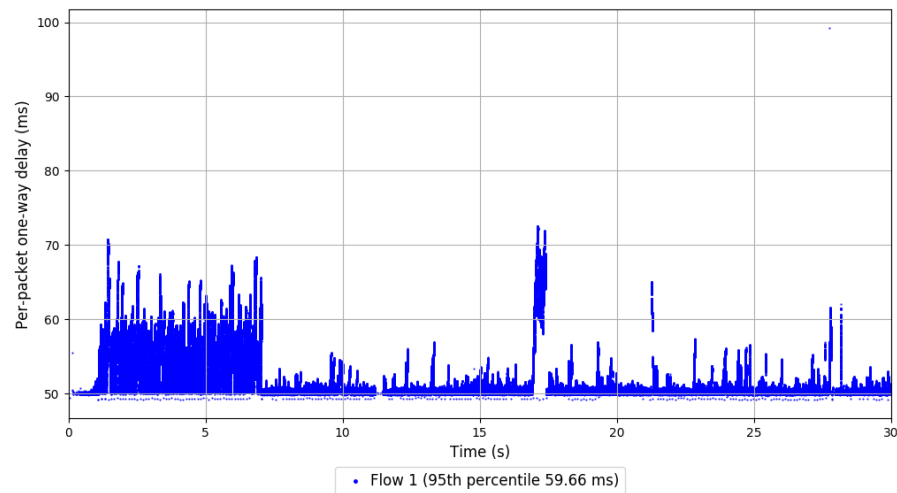
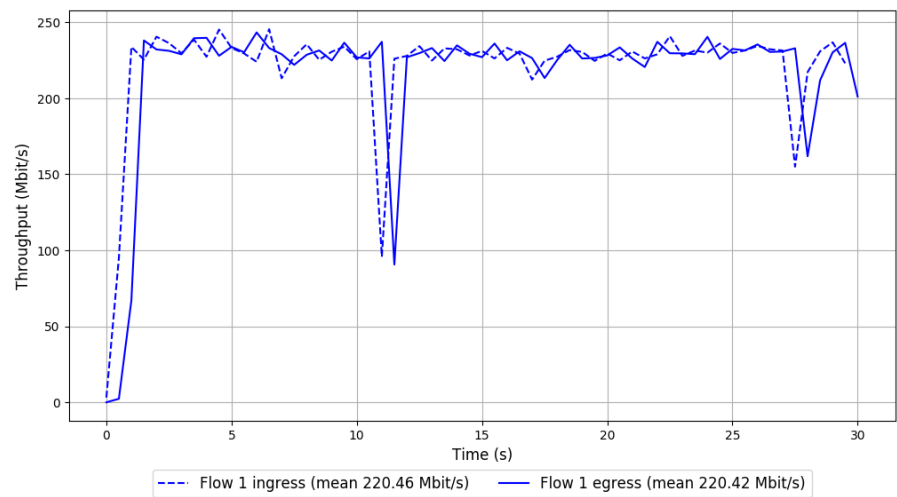
-- Flow 1:

Average throughput: 220.42 Mbit/s

95th percentile per-packet one-way delay: 59.656 ms

Loss rate: 0.35%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-07-02 01:32:10

End at: 2018-07-02 01:32:40

Local clock offset: 0.073 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2018-07-02 02:42:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.94 Mbit/s

95th percentile per-packet one-way delay: 60.090 ms

Loss rate: 0.34%

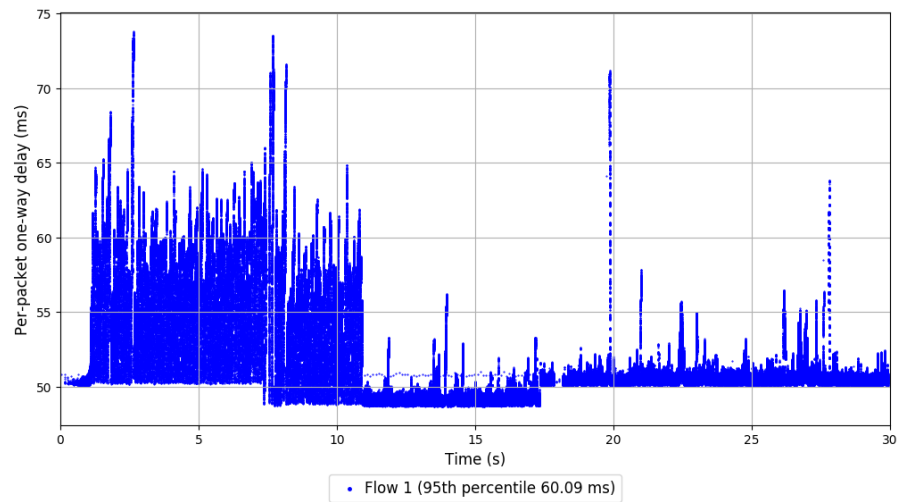
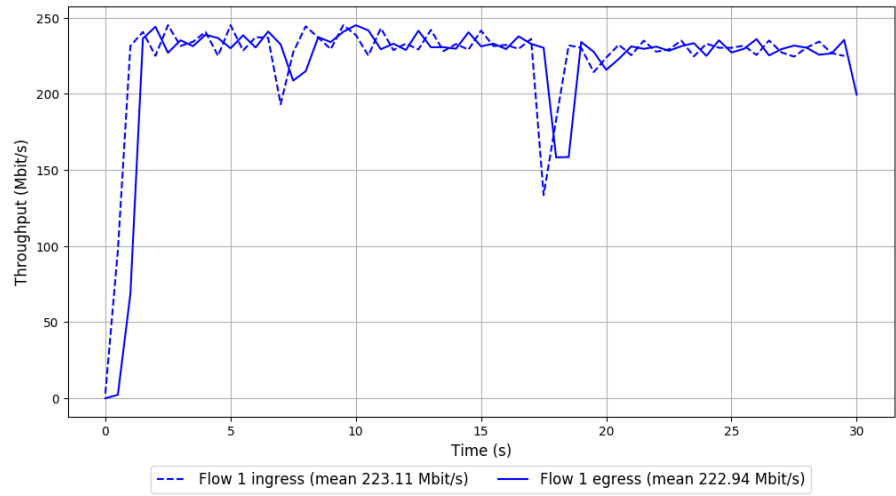
-- Flow 1:

Average throughput: 222.94 Mbit/s

95th percentile per-packet one-way delay: 60.090 ms

Loss rate: 0.34%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-07-02 01:53:26

End at: 2018-07-02 01:53:56

Local clock offset: 0.073 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2018-07-02 02:46:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.98 Mbit/s

95th percentile per-packet one-way delay: 55.707 ms

Loss rate: 0.34%

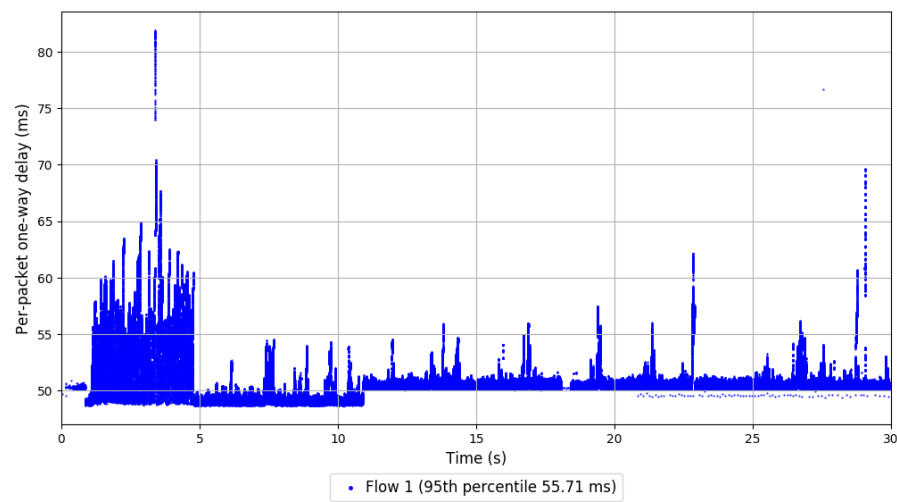
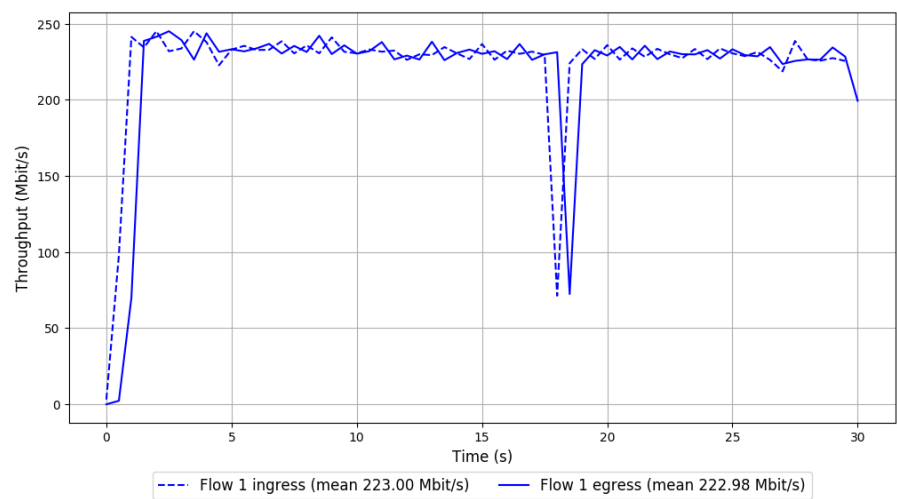
-- Flow 1:

Average throughput: 222.98 Mbit/s

95th percentile per-packet one-way delay: 55.707 ms

Loss rate: 0.34%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-07-02 02:14:26

End at: 2018-07-02 02:14:56

Local clock offset: 0.061 ms

Remote clock offset: 0.026 ms

Below is generated by plot.py at 2018-07-02 02:46:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.41 Mbit/s

95th percentile per-packet one-way delay: 57.182 ms

Loss rate: 0.34%

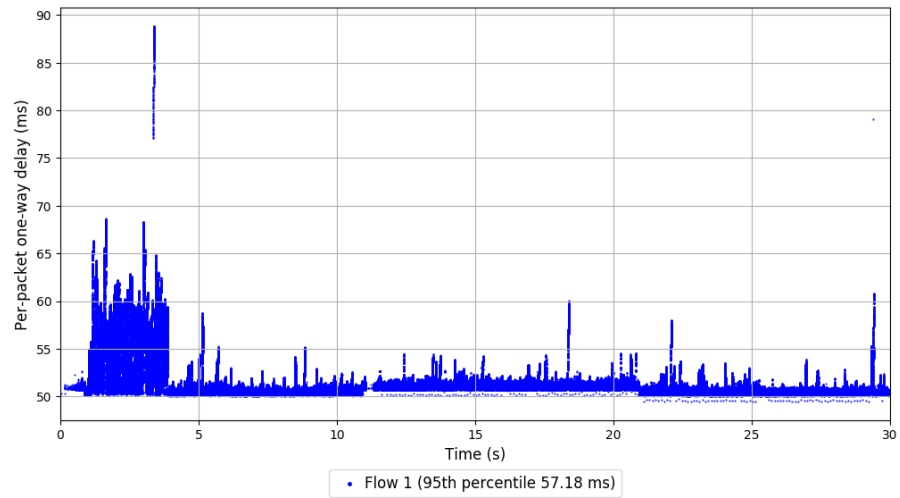
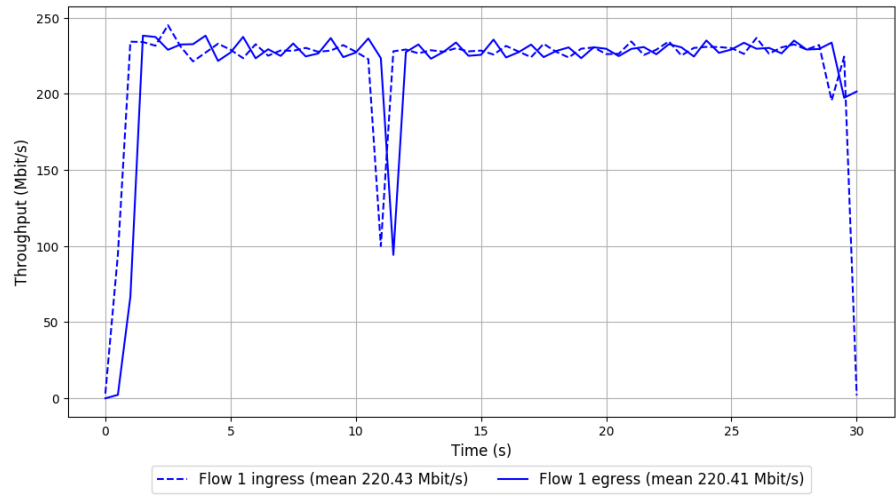
-- Flow 1:

Average throughput: 220.41 Mbit/s

95th percentile per-packet one-way delay: 57.182 ms

Loss rate: 0.34%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-07-01 23:10:08

End at: 2018-07-01 23:10:38

Local clock offset: 0.034 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2018-07-02 02:46:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 126.43 Mbit/s

95th percentile per-packet one-way delay: 53.645 ms

Loss rate: 0.29%

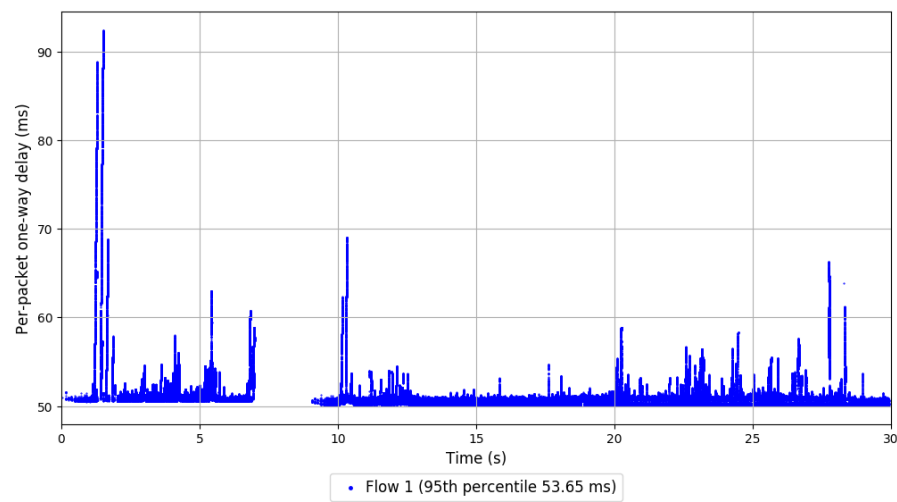
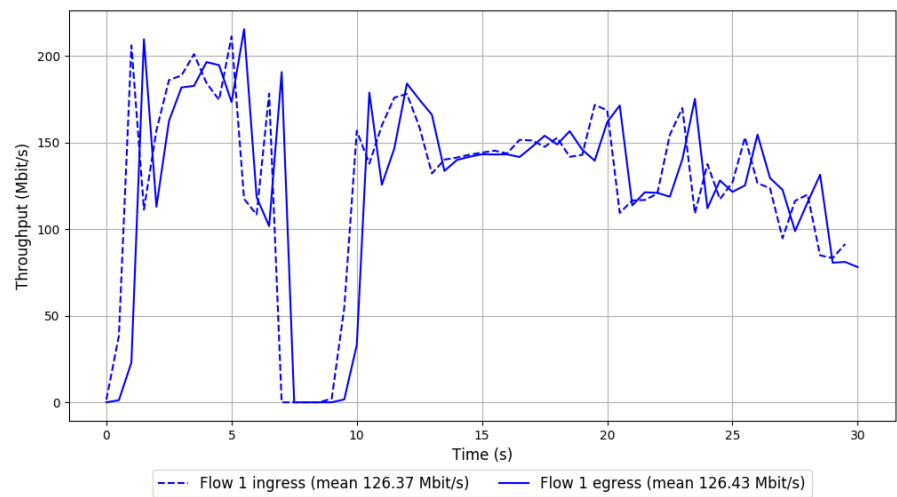
-- Flow 1:

Average throughput: 126.43 Mbit/s

95th percentile per-packet one-way delay: 53.645 ms

Loss rate: 0.29%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-07-01 23:30:55

End at: 2018-07-01 23:31:25

Local clock offset: 0.079 ms

Remote clock offset: 0.024 ms

Below is generated by plot.py at 2018-07-02 02:46:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.45 Mbit/s

95th percentile per-packet one-way delay: 61.201 ms

Loss rate: 0.57%

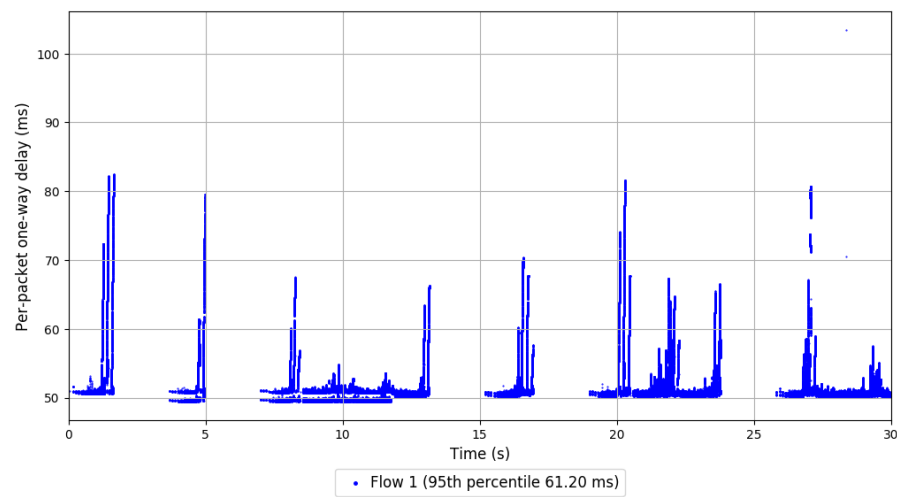
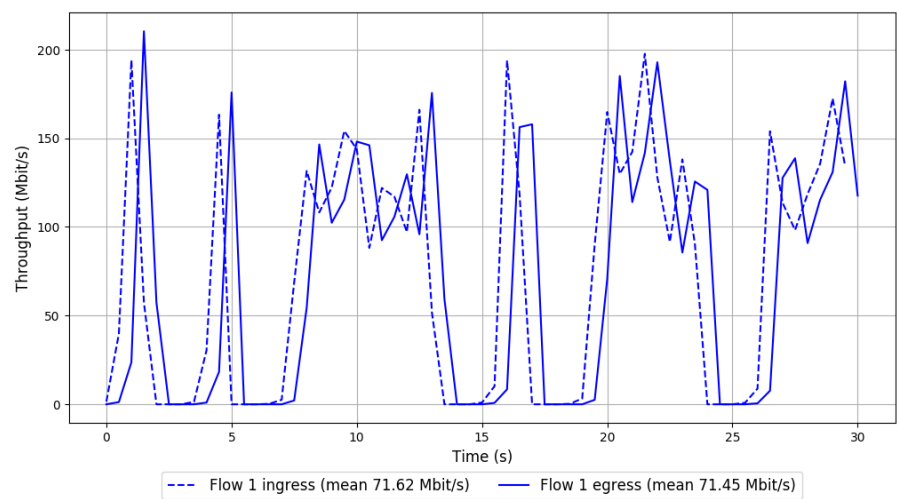
-- Flow 1:

Average throughput: 71.45 Mbit/s

95th percentile per-packet one-way delay: 61.201 ms

Loss rate: 0.57%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-07-01 23:51:57

End at: 2018-07-01 23:52:27

Local clock offset: 0.147 ms

Remote clock offset: 0.046 ms

Below is generated by plot.py at 2018-07-02 02:46:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 138.47 Mbit/s

95th percentile per-packet one-way delay: 53.629 ms

Loss rate: 0.43%

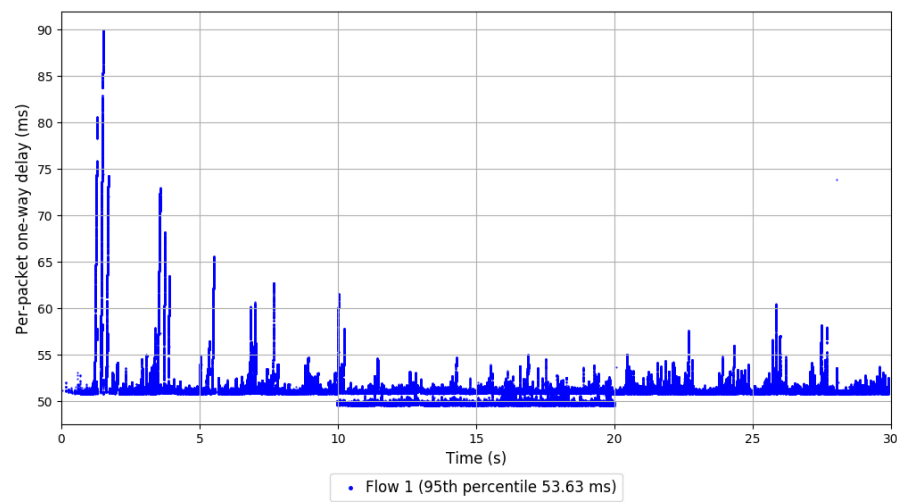
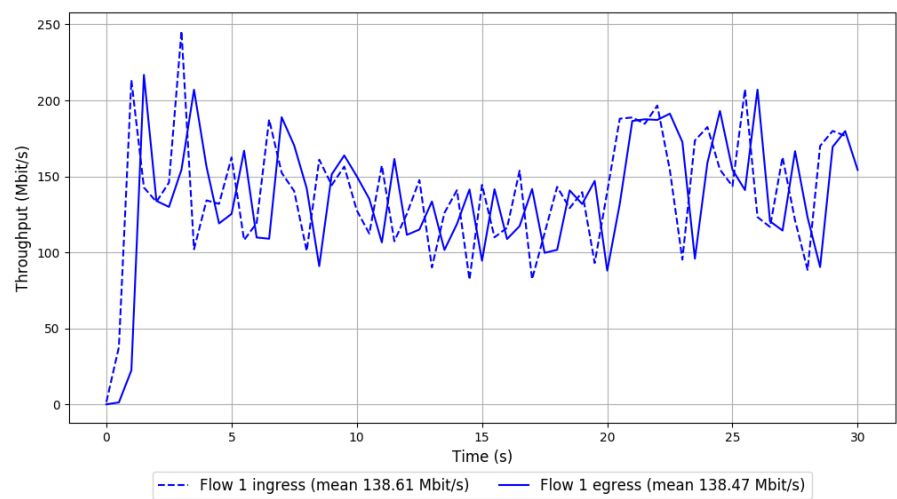
-- Flow 1:

Average throughput: 138.47 Mbit/s

95th percentile per-packet one-way delay: 53.629 ms

Loss rate: 0.43%

Run 3: Report of Copa — Data Link

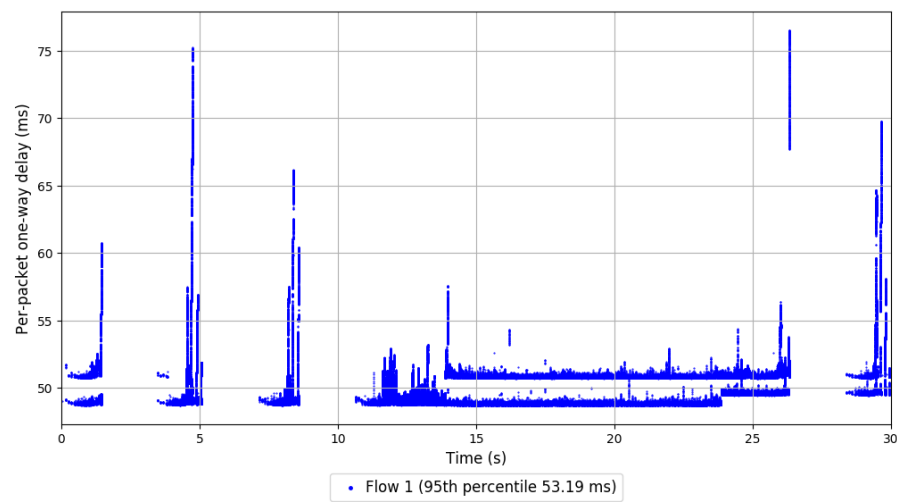
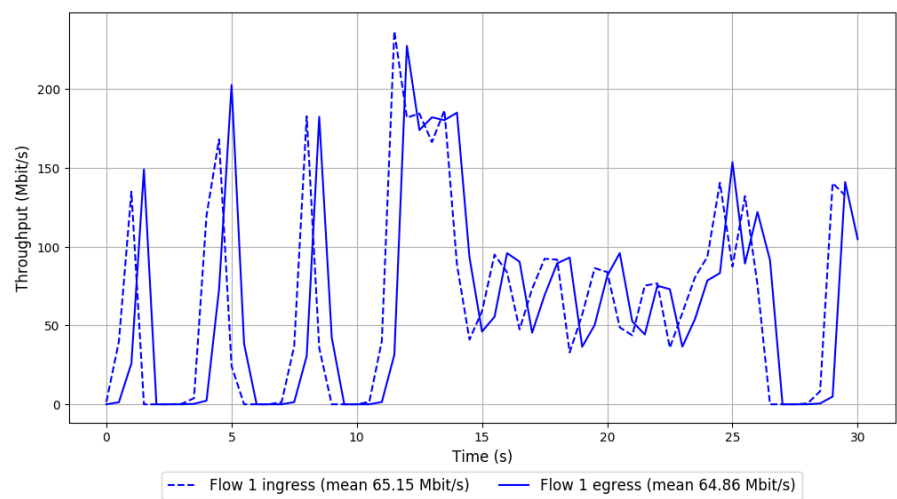


Run 4: Statistics of Copa

Start at: 2018-07-02 00:13:03
End at: 2018-07-02 00:13:33
Local clock offset: 0.073 ms
Remote clock offset: -0.078 ms

Below is generated by plot.py at 2018-07-02 02:46:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 64.86 Mbit/s
95th percentile per-packet one-way delay: 53.186 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 64.86 Mbit/s
95th percentile per-packet one-way delay: 53.186 ms
Loss rate: 0.78%

Run 4: Report of Copa — Data Link

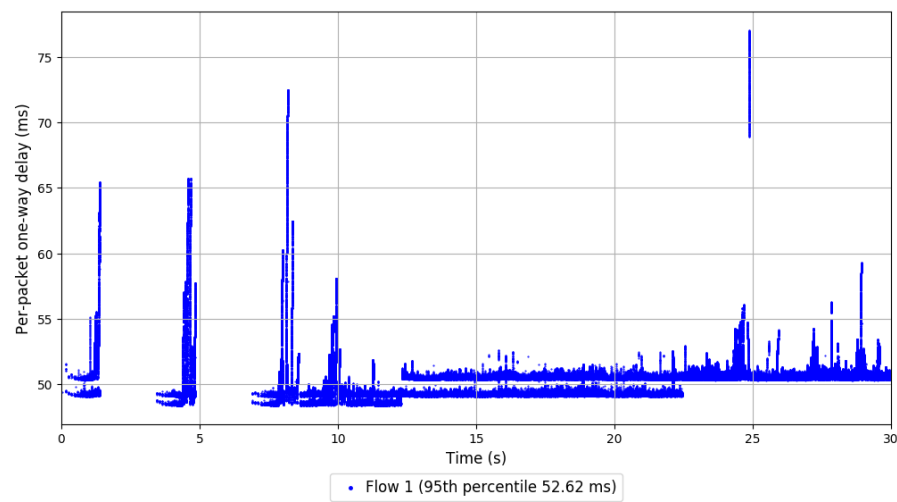
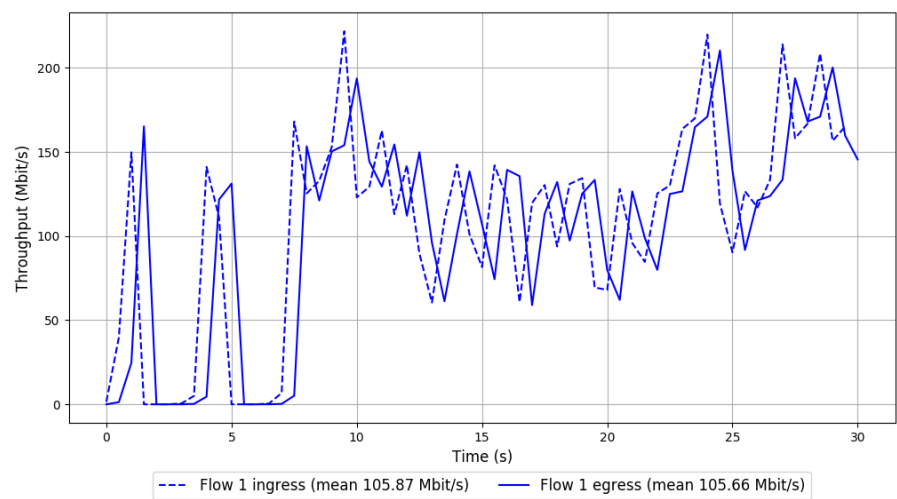


Run 5: Statistics of Copa

Start at: 2018-07-02 00:34:05
End at: 2018-07-02 00:34:35
Local clock offset: -0.246 ms
Remote clock offset: -0.111 ms

Below is generated by plot.py at 2018-07-02 02:46:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 105.66 Mbit/s
95th percentile per-packet one-way delay: 52.618 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 105.66 Mbit/s
95th percentile per-packet one-way delay: 52.618 ms
Loss rate: 0.54%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-07-02 00:54:42

End at: 2018-07-02 00:55:12

Local clock offset: 0.068 ms

Remote clock offset: 0.165 ms

Below is generated by plot.py at 2018-07-02 02:46:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 116.91 Mbit/s

95th percentile per-packet one-way delay: 51.938 ms

Loss rate: 0.54%

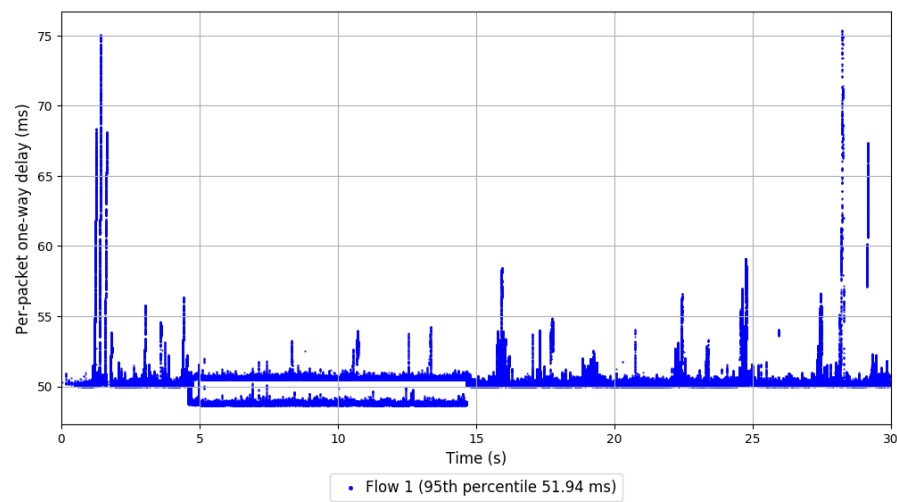
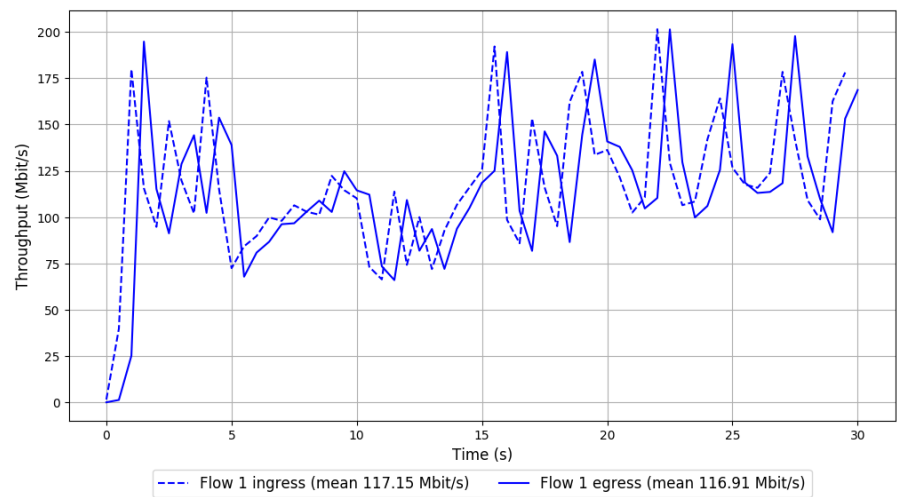
-- Flow 1:

Average throughput: 116.91 Mbit/s

95th percentile per-packet one-way delay: 51.938 ms

Loss rate: 0.54%

Run 6: Report of Copa — Data Link

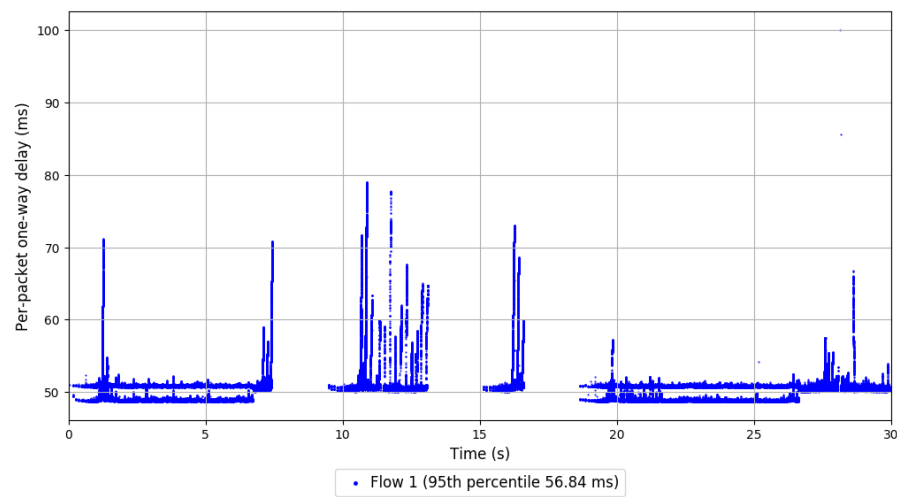
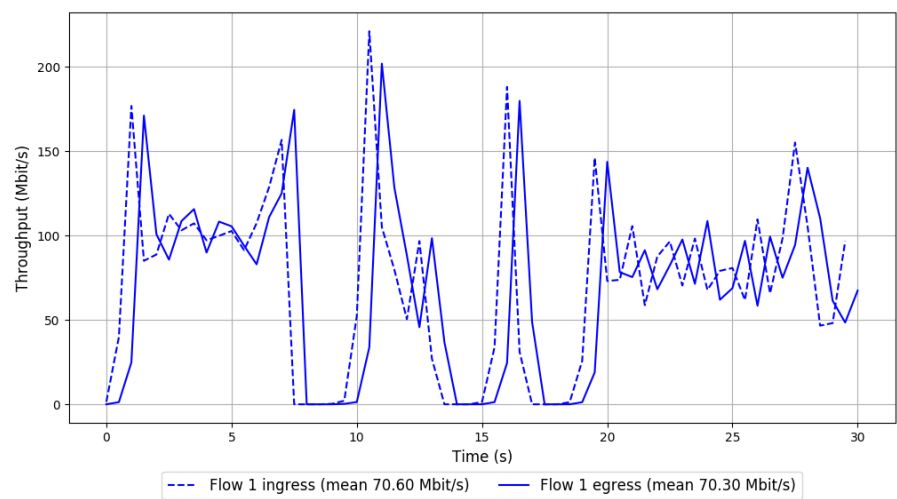


Run 7: Statistics of Copa

Start at: 2018-07-02 01:15:50
End at: 2018-07-02 01:16:20
Local clock offset: 0.092 ms
Remote clock offset: 0.13 ms

Below is generated by plot.py at 2018-07-02 02:46:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 70.30 Mbit/s
95th percentile per-packet one-way delay: 56.843 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 70.30 Mbit/s
95th percentile per-packet one-way delay: 56.843 ms
Loss rate: 0.76%

Run 7: Report of Copa — Data Link

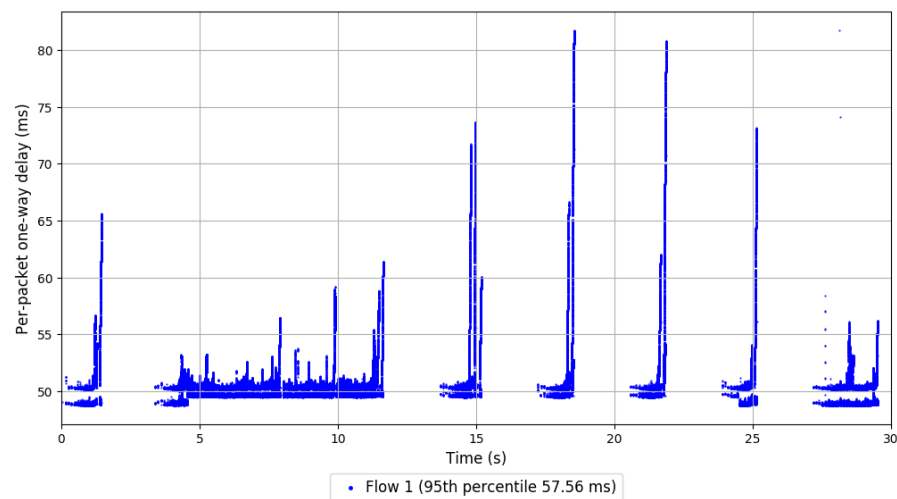
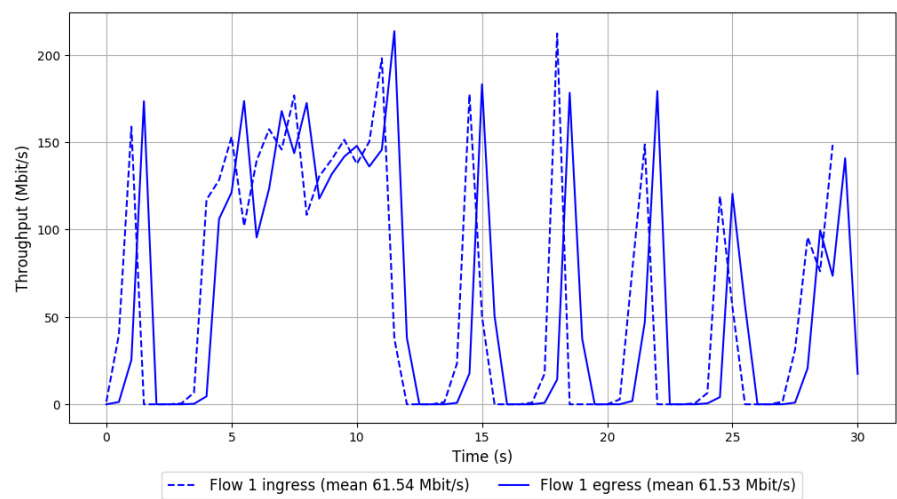


Run 8: Statistics of Copa

Start at: 2018-07-02 01:36:52
End at: 2018-07-02 01:37:22
Local clock offset: 0.109 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2018-07-02 02:46:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 61.53 Mbit/s
95th percentile per-packet one-way delay: 57.557 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.53 Mbit/s
95th percentile per-packet one-way delay: 57.557 ms
Loss rate: 0.00%

Run 8: Report of Copa — Data Link

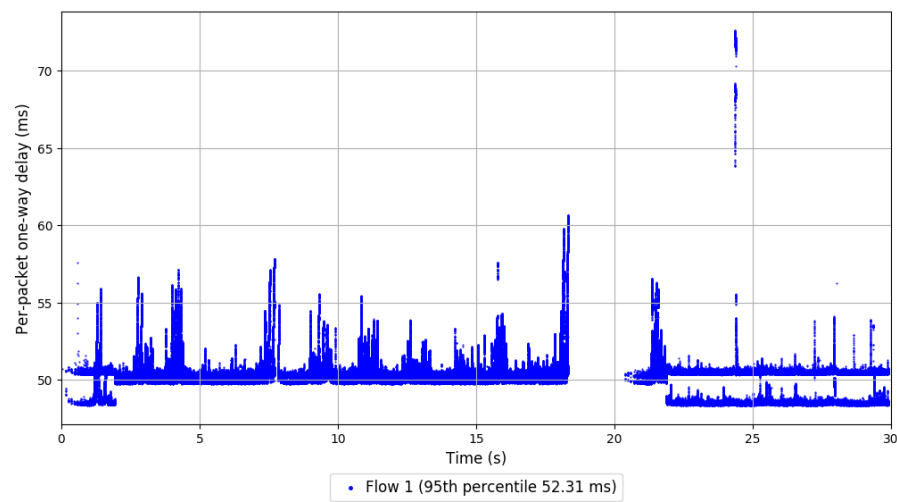
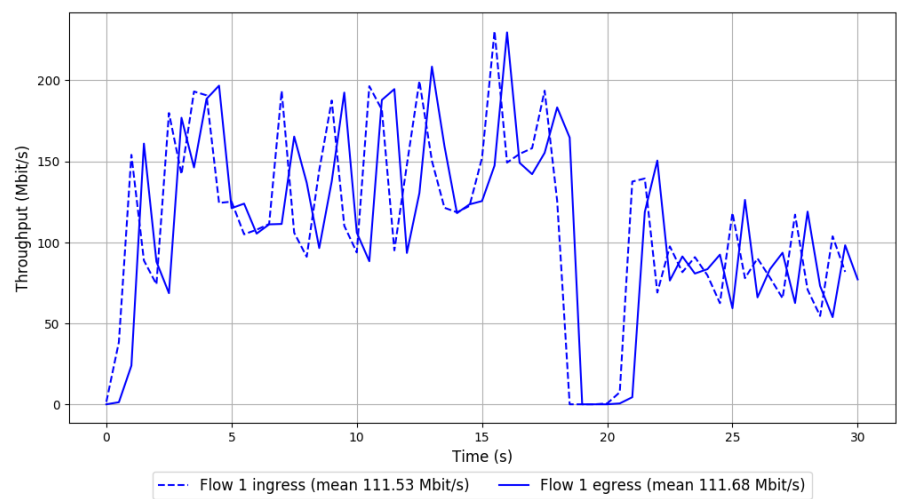


Run 9: Statistics of Copa

Start at: 2018-07-02 01:58:05
End at: 2018-07-02 01:58:35
Local clock offset: -0.275 ms
Remote clock offset: -0.014 ms

Below is generated by plot.py at 2018-07-02 02:49:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 111.68 Mbit/s
95th percentile per-packet one-way delay: 52.309 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 111.68 Mbit/s
95th percentile per-packet one-way delay: 52.309 ms
Loss rate: 0.19%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-07-02 02:19:03

End at: 2018-07-02 02:19:33

Local clock offset: 0.118 ms

Remote clock offset: 0.022 ms

Below is generated by plot.py at 2018-07-02 02:49:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.09 Mbit/s

95th percentile per-packet one-way delay: 54.724 ms

Loss rate: 0.43%

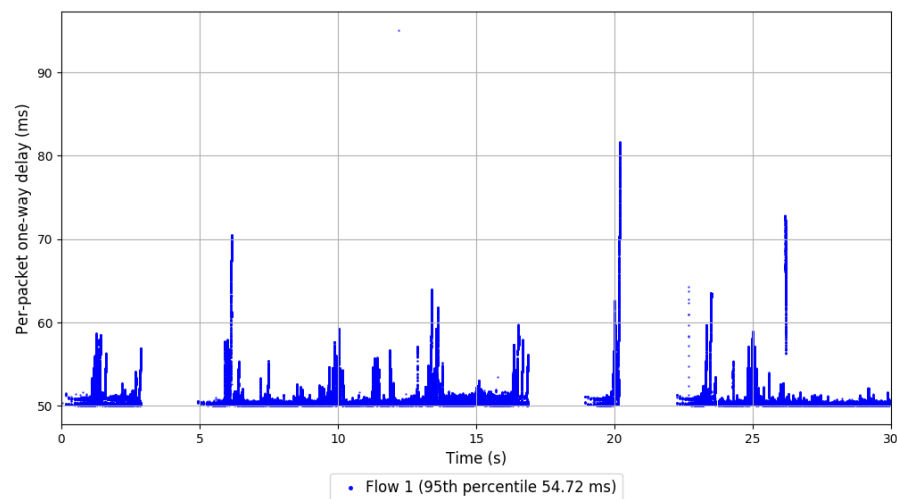
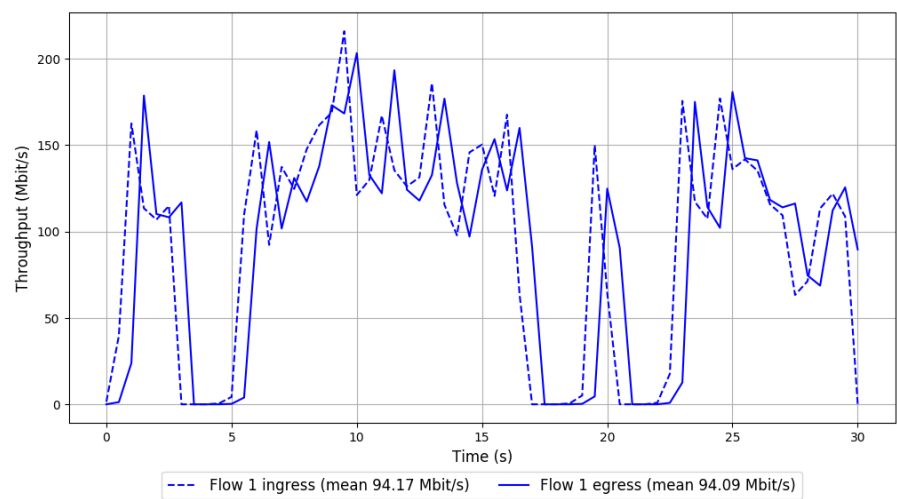
-- Flow 1:

Average throughput: 94.09 Mbit/s

95th percentile per-packet one-way delay: 54.724 ms

Loss rate: 0.43%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-07-01 23:18:45

End at: 2018-07-01 23:19:15

Local clock offset: 0.089 ms

Remote clock offset: 0.025 ms

Below is generated by plot.py at 2018-07-02 02:49:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.46 Mbit/s

95th percentile per-packet one-way delay: 64.263 ms

Loss rate: 0.25%

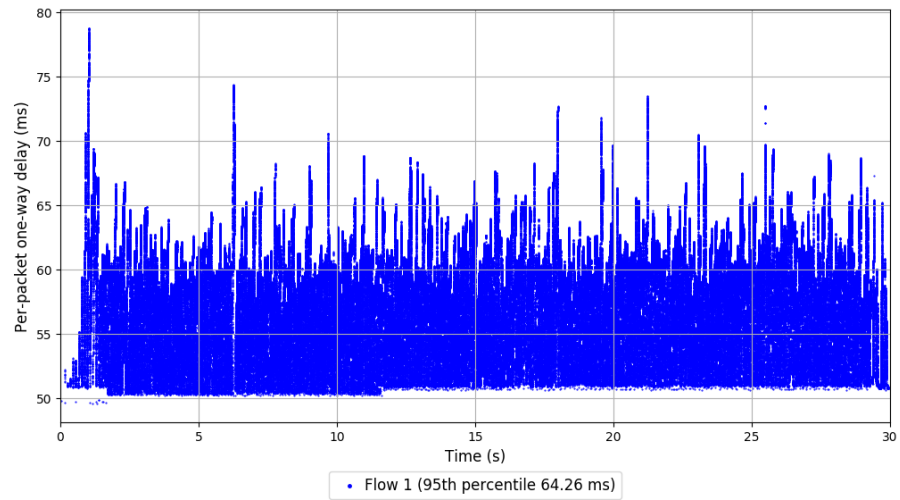
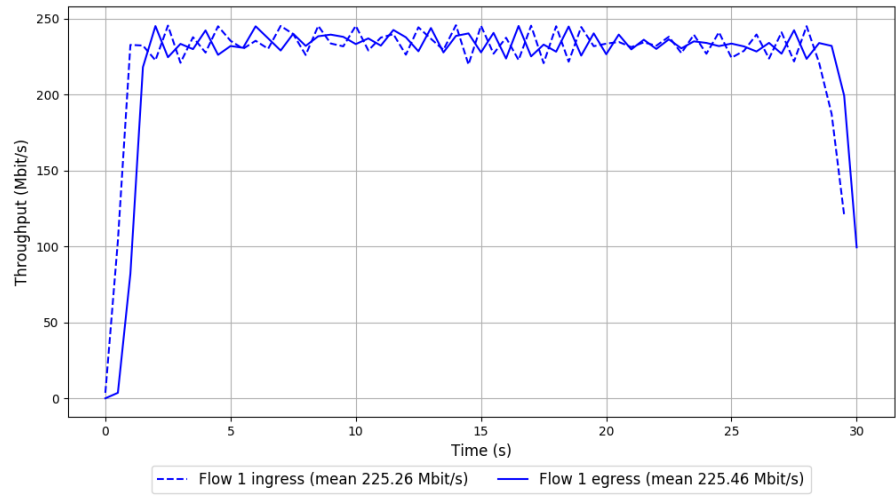
-- Flow 1:

Average throughput: 225.46 Mbit/s

95th percentile per-packet one-way delay: 64.263 ms

Loss rate: 0.25%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-07-01 23:39:42

End at: 2018-07-01 23:40:12

Local clock offset: 0.101 ms

Remote clock offset: 0.052 ms

Below is generated by plot.py at 2018-07-02 02:49:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.54 Mbit/s

95th percentile per-packet one-way delay: 61.172 ms

Loss rate: 0.23%

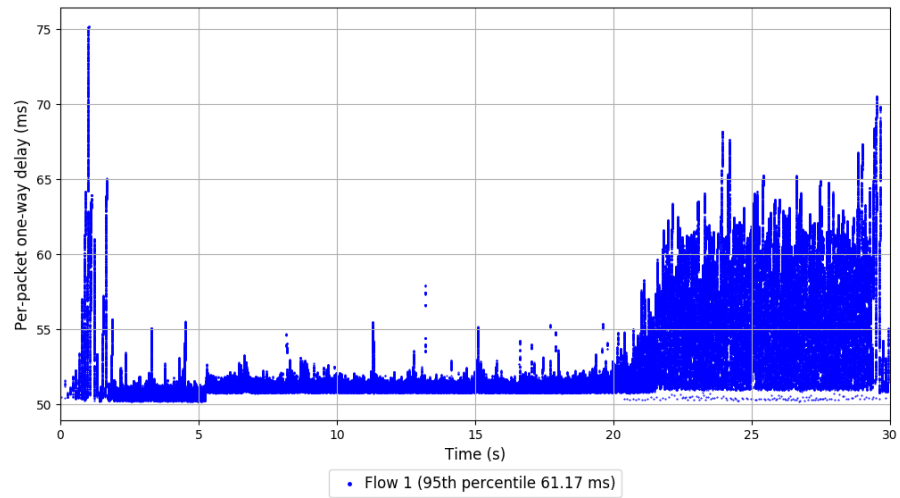
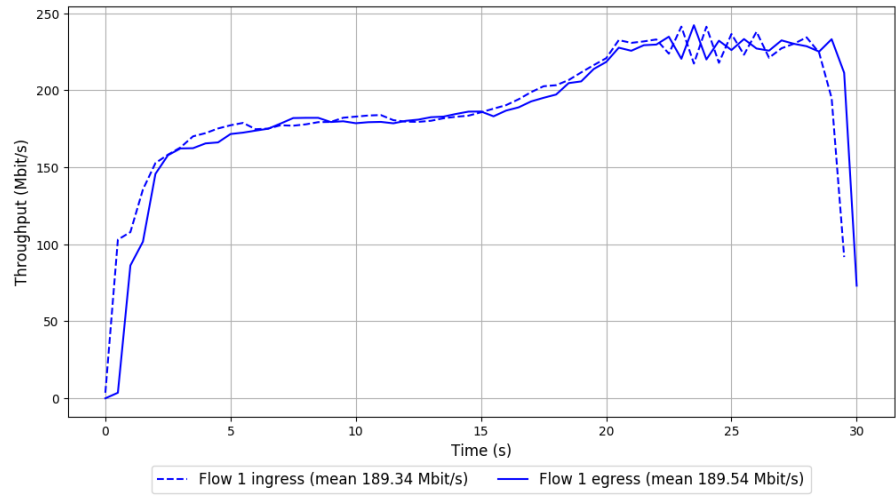
-- Flow 1:

Average throughput: 189.54 Mbit/s

95th percentile per-packet one-way delay: 61.172 ms

Loss rate: 0.23%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-07-02 00:00:47

End at: 2018-07-02 00:01:17

Local clock offset: 0.099 ms

Remote clock offset: 0.142 ms

Below is generated by plot.py at 2018-07-02 02:50:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.22 Mbit/s

95th percentile per-packet one-way delay: 62.784 ms

Loss rate: 0.18%

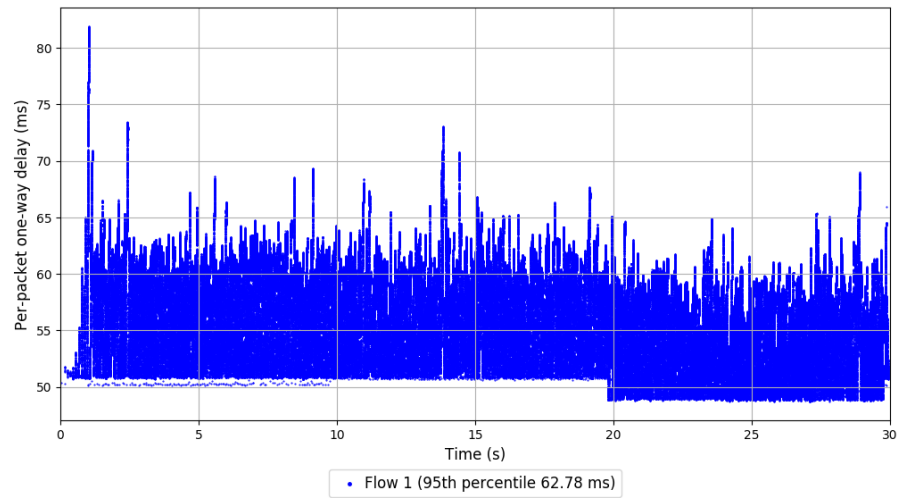
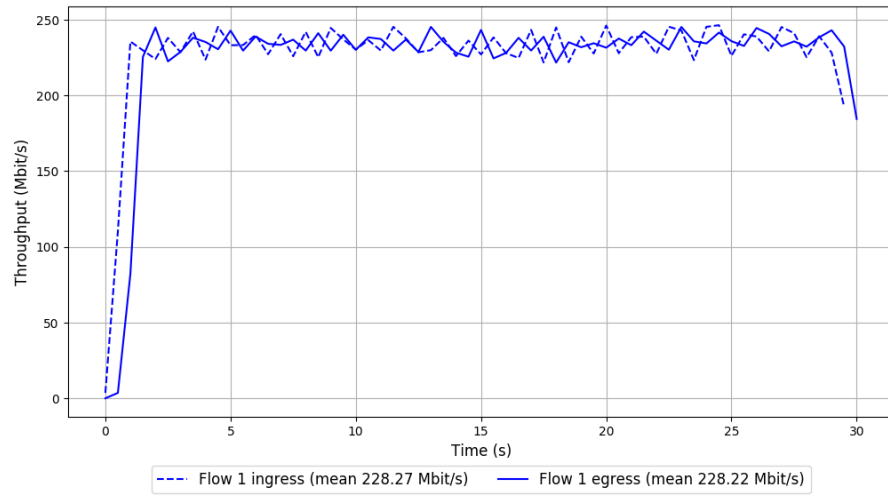
-- Flow 1:

Average throughput: 228.22 Mbit/s

95th percentile per-packet one-way delay: 62.784 ms

Loss rate: 0.18%

Run 3: Report of TCP Cubic — Data Link

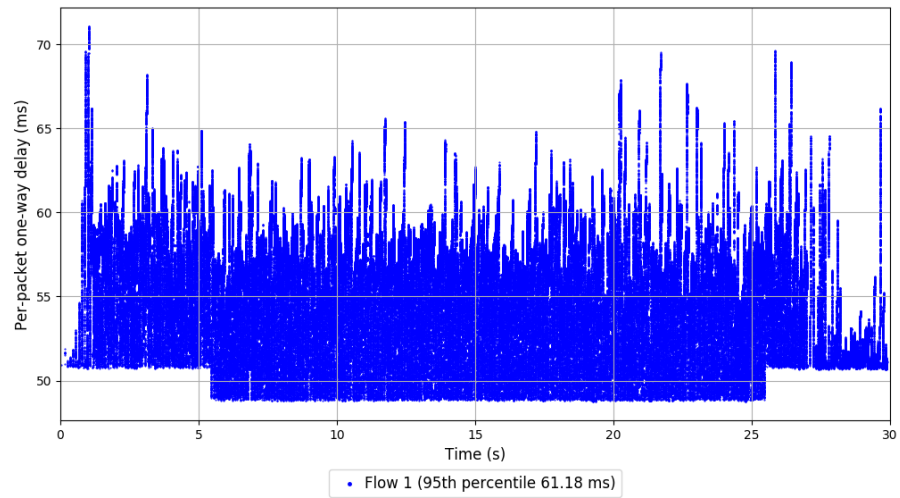
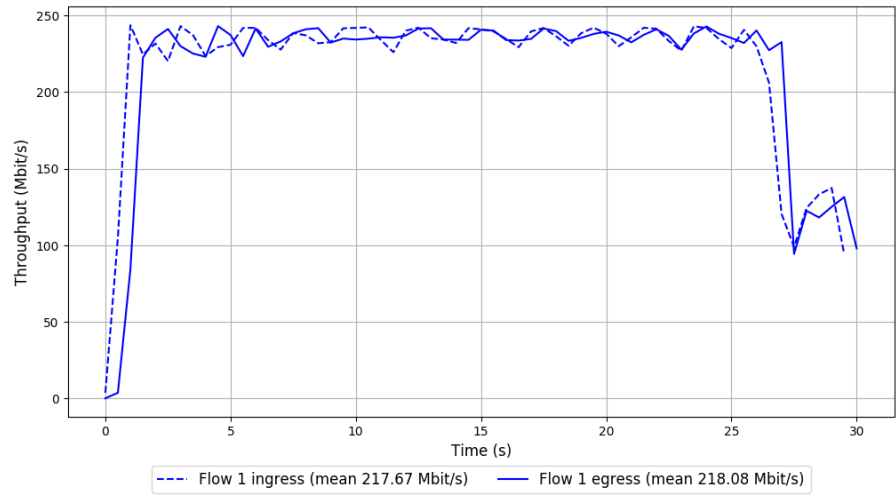


Run 4: Statistics of TCP Cubic

Start at: 2018-07-02 00:21:52
End at: 2018-07-02 00:22:22
Local clock offset: 0.059 ms
Remote clock offset: -0.092 ms

Below is generated by plot.py at 2018-07-02 02:50:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 218.08 Mbit/s
95th percentile per-packet one-way delay: 61.176 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 218.08 Mbit/s
95th percentile per-packet one-way delay: 61.176 ms
Loss rate: 0.15%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-07-02 00:42:45

End at: 2018-07-02 00:43:15

Local clock offset: 0.112 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2018-07-02 02:50:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 163.03 Mbit/s

95th percentile per-packet one-way delay: 61.784 ms

Loss rate: 0.27%

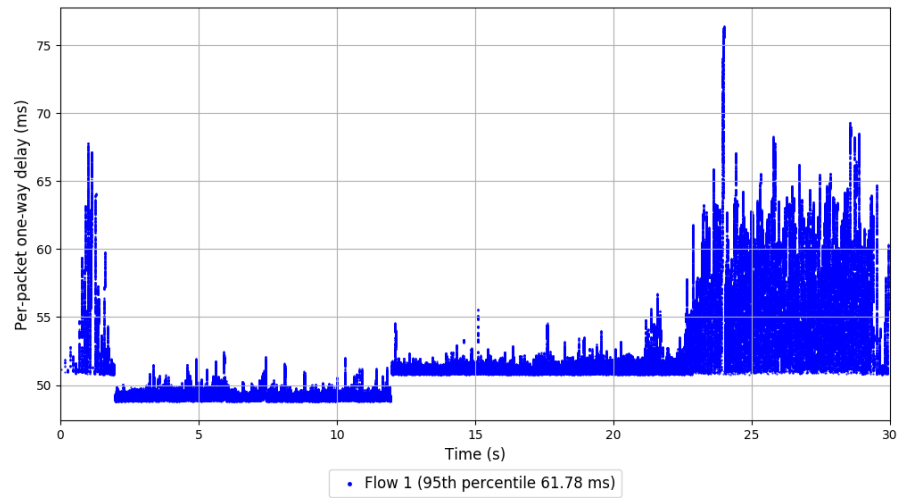
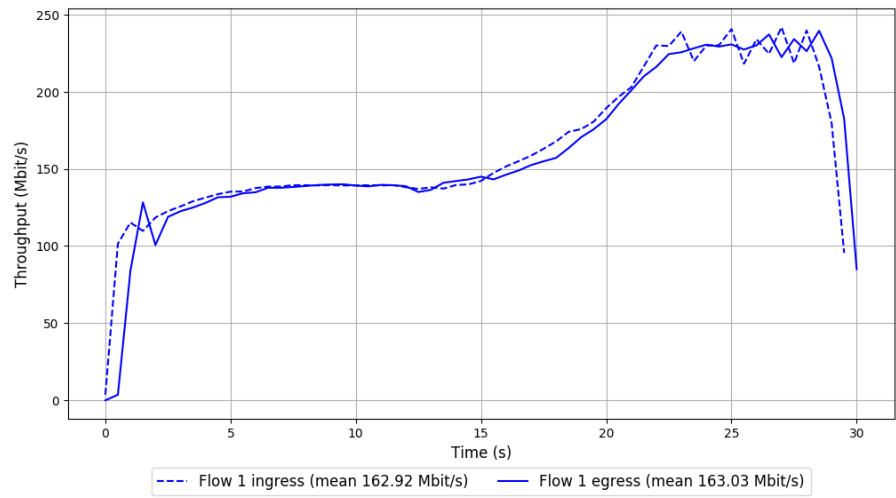
-- Flow 1:

Average throughput: 163.03 Mbit/s

95th percentile per-packet one-way delay: 61.784 ms

Loss rate: 0.27%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-07-02 01:03:35

End at: 2018-07-02 01:04:05

Local clock offset: 0.105 ms

Remote clock offset: 0.155 ms

Below is generated by plot.py at 2018-07-02 02:50:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 166.32 Mbit/s

95th percentile per-packet one-way delay: 61.456 ms

Loss rate: 0.26%

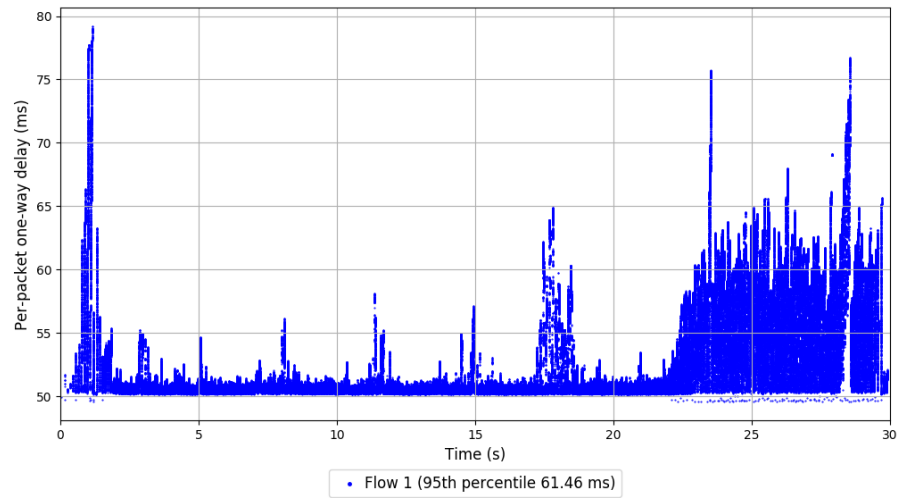
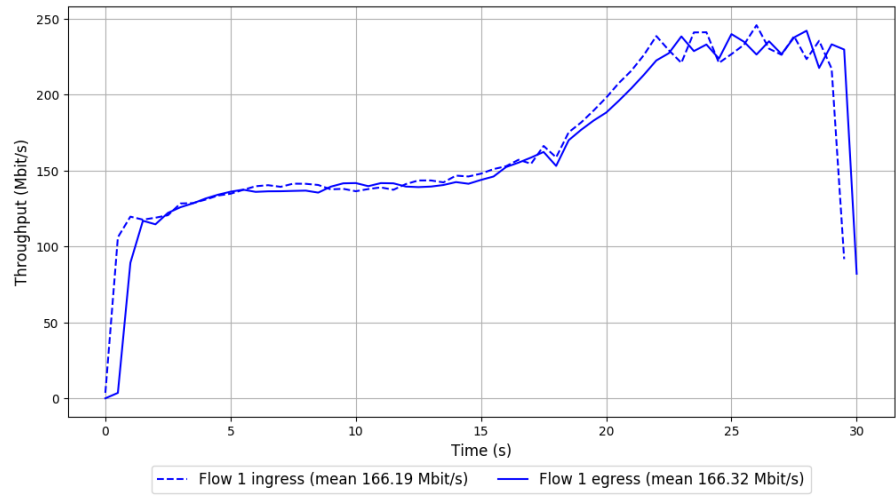
-- Flow 1:

Average throughput: 166.32 Mbit/s

95th percentile per-packet one-way delay: 61.456 ms

Loss rate: 0.26%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-07-02 01:24:33

End at: 2018-07-02 01:25:03

Local clock offset: 0.107 ms

Remote clock offset: 0.058 ms

Below is generated by plot.py at 2018-07-02 02:52:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 229.75 Mbit/s

95th percentile per-packet one-way delay: 61.643 ms

Loss rate: 0.36%

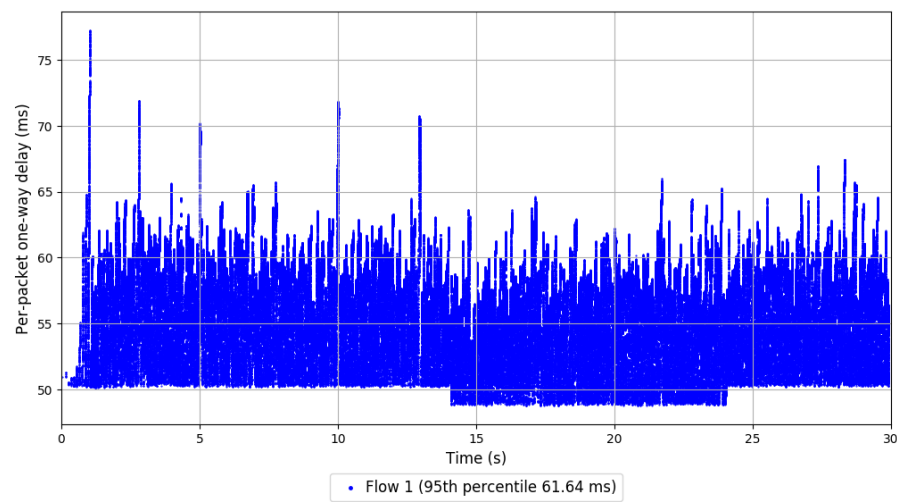
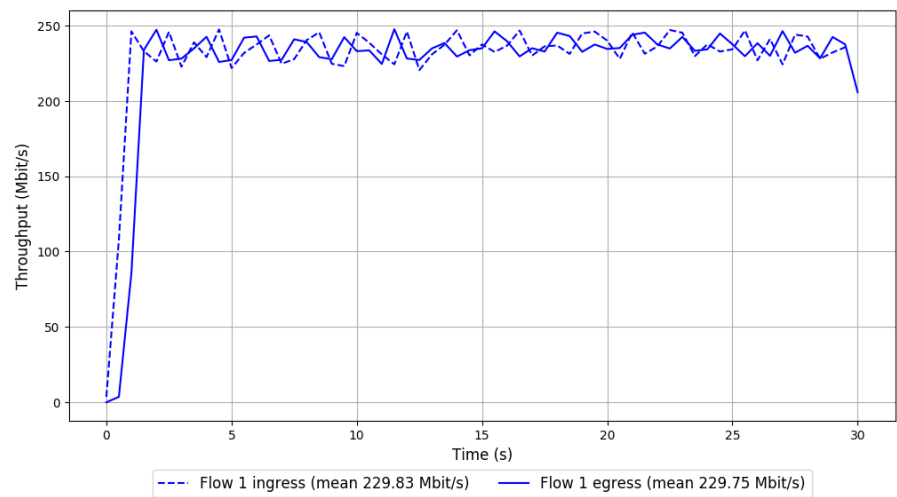
-- Flow 1:

Average throughput: 229.75 Mbit/s

95th percentile per-packet one-way delay: 61.643 ms

Loss rate: 0.36%

Run 7: Report of TCP Cubic — Data Link

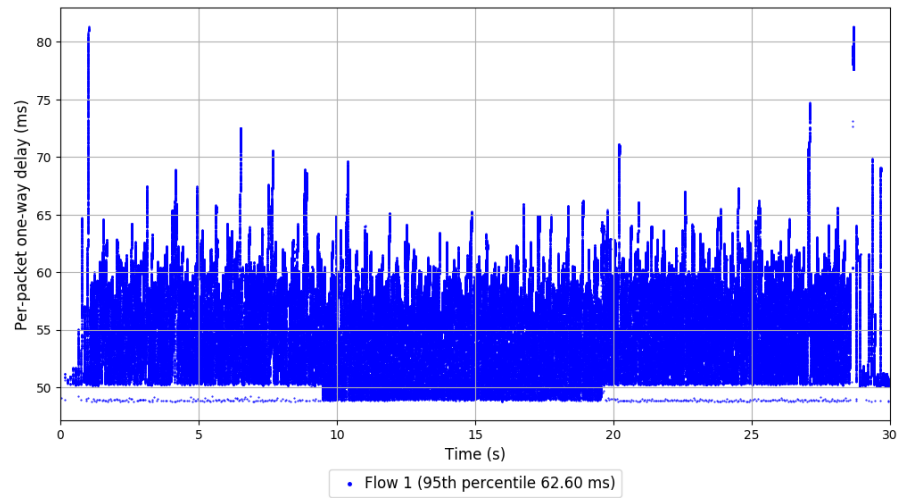
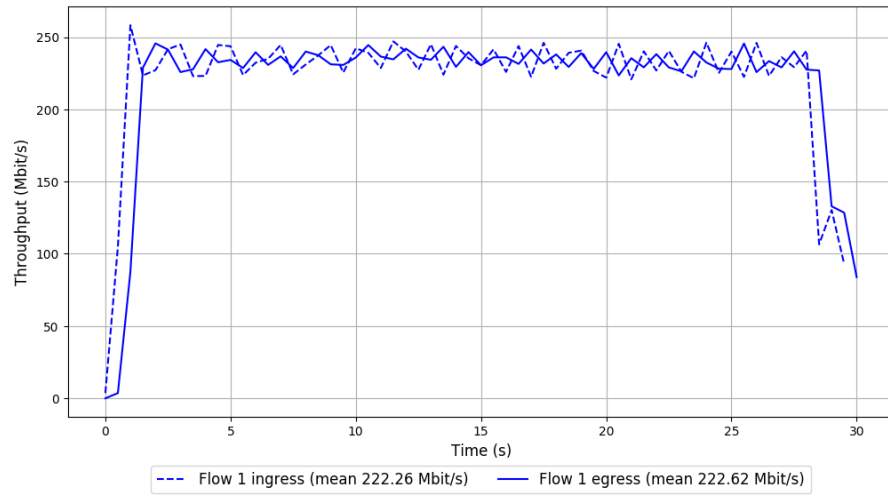


Run 8: Statistics of TCP Cubic

Start at: 2018-07-02 01:45:48
End at: 2018-07-02 01:46:18
Local clock offset: 0.091 ms
Remote clock offset: -0.035 ms

Below is generated by plot.py at 2018-07-02 02:52:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 222.62 Mbit/s
95th percentile per-packet one-way delay: 62.602 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 222.62 Mbit/s
95th percentile per-packet one-way delay: 62.602 ms
Loss rate: 0.17%

Run 8: Report of TCP Cubic — Data Link

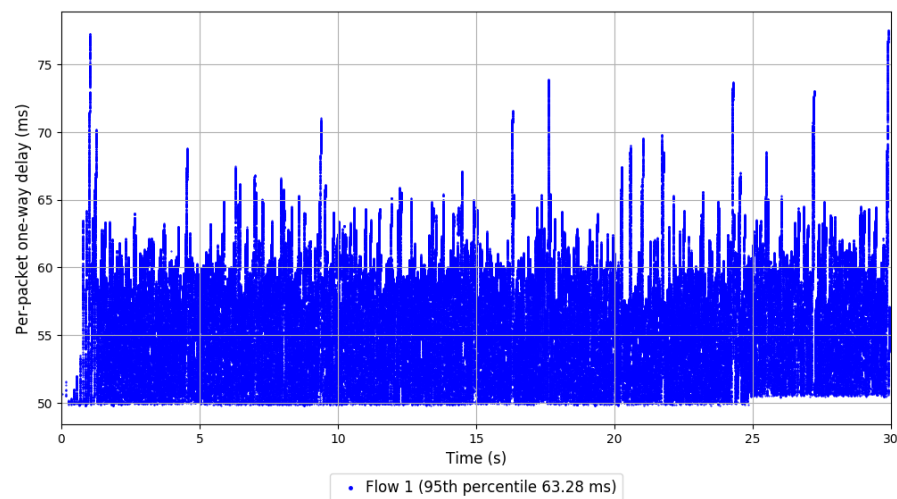
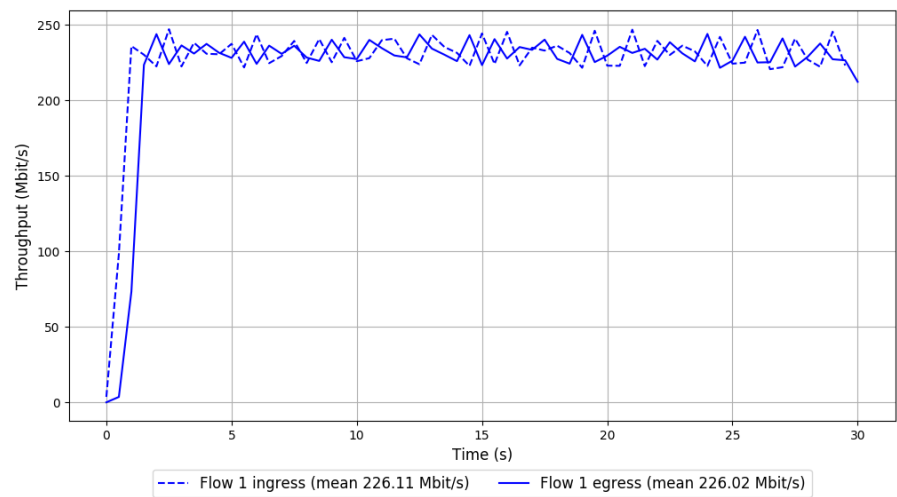


Run 9: Statistics of TCP Cubic

Start at: 2018-07-02 02:06:52
End at: 2018-07-02 02:07:22
Local clock offset: -0.234 ms
Remote clock offset: -0.009 ms

Below is generated by plot.py at 2018-07-02 02:52:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 226.02 Mbit/s
95th percentile per-packet one-way delay: 63.282 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 226.02 Mbit/s
95th percentile per-packet one-way delay: 63.282 ms
Loss rate: 0.36%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-07-02 02:27:45

End at: 2018-07-02 02:28:15

Local clock offset: 0.076 ms

Remote clock offset: -0.052 ms

Below is generated by plot.py at 2018-07-02 02:52:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.06 Mbit/s

95th percentile per-packet one-way delay: 63.962 ms

Loss rate: 0.36%

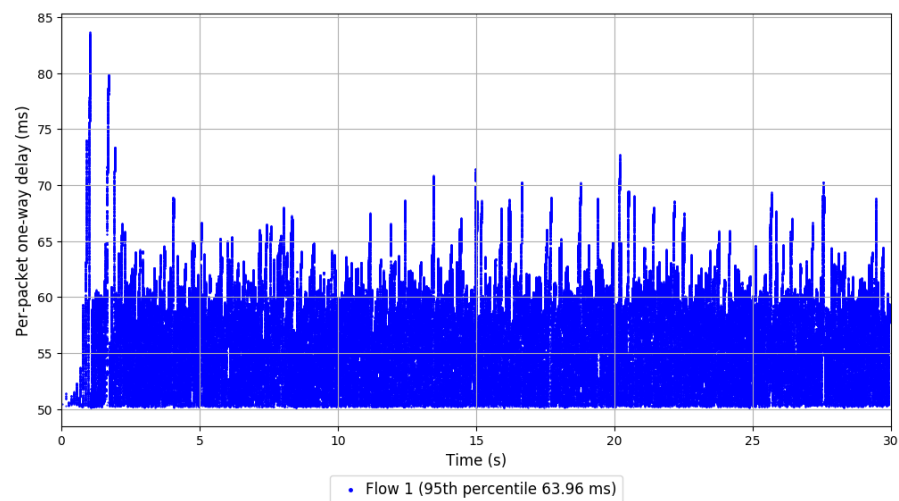
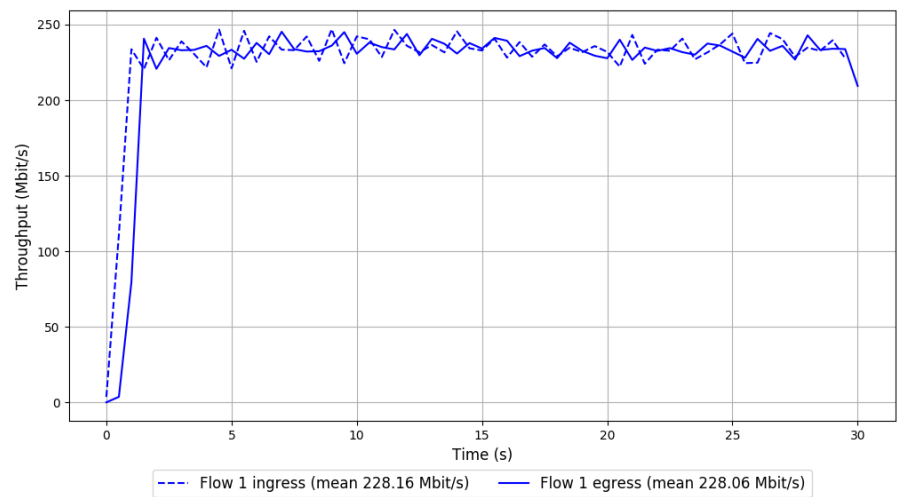
-- Flow 1:

Average throughput: 228.06 Mbit/s

95th percentile per-packet one-way delay: 63.962 ms

Loss rate: 0.36%

Run 10: Report of TCP Cubic — Data Link

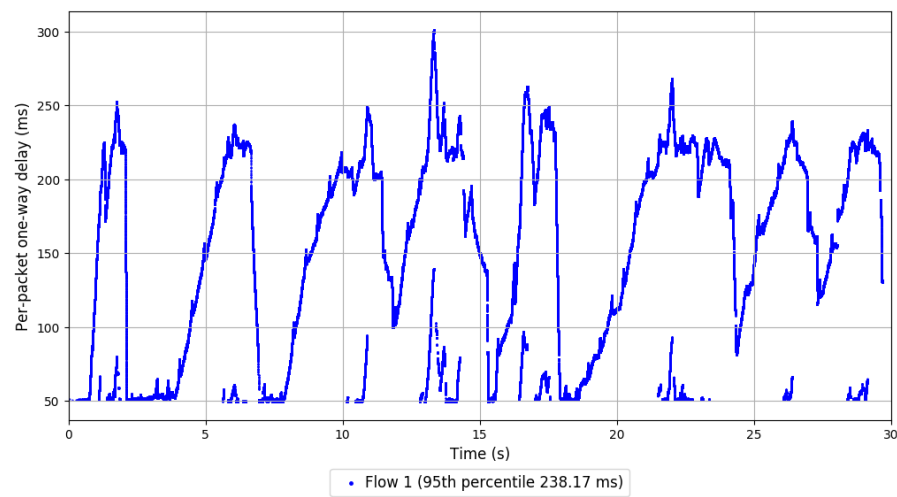
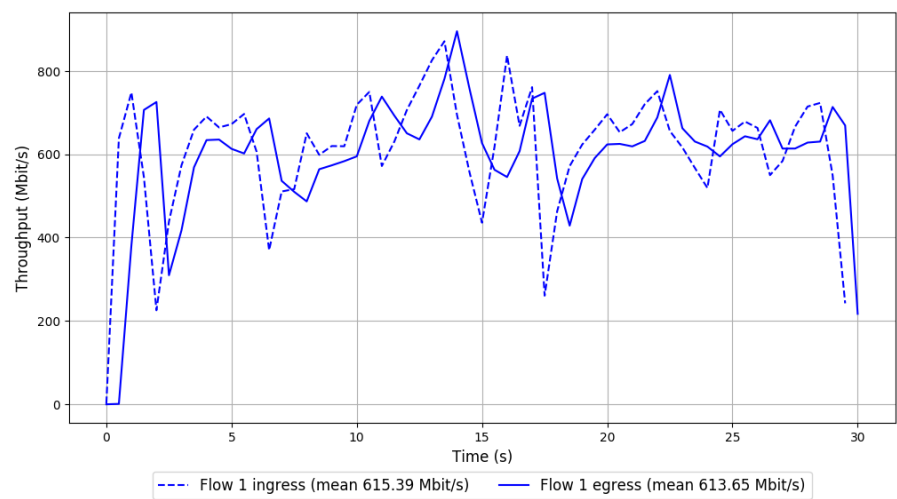


```
Run 1: Statistics of FillP

Start at: 2018-07-01 23:20:01
End at: 2018-07-01 23:20:31
Local clock offset: 0.048 ms
Remote clock offset: 0.003 ms

# Below is generated by plot.py at 2018-07-02 03:02:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 613.65 Mbit/s
95th percentile per-packet one-way delay: 238.173 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 613.65 Mbit/s
95th percentile per-packet one-way delay: 238.173 ms
Loss rate: 0.63%
```

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-07-01 23:40:56

End at: 2018-07-01 23:41:26

Local clock offset: 0.097 ms

Remote clock offset: 0.046 ms

Below is generated by plot.py at 2018-07-02 03:02:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 601.57 Mbit/s

95th percentile per-packet one-way delay: 242.214 ms

Loss rate: 0.85%

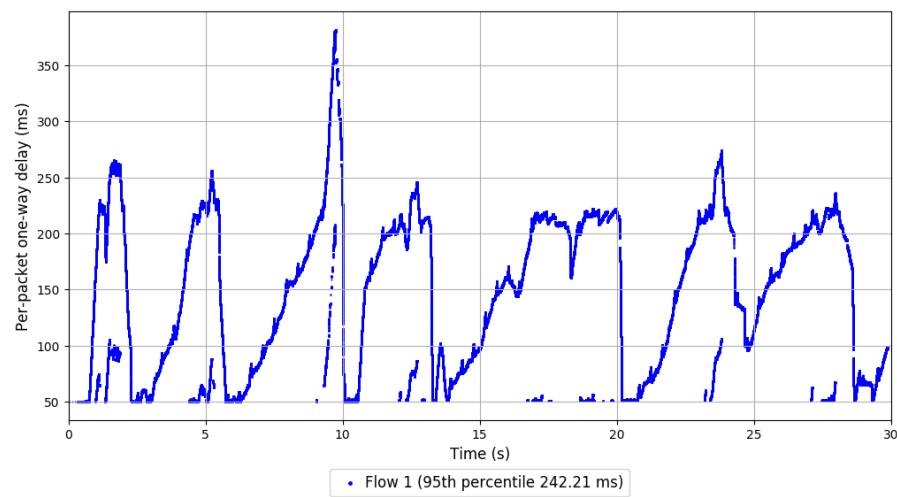
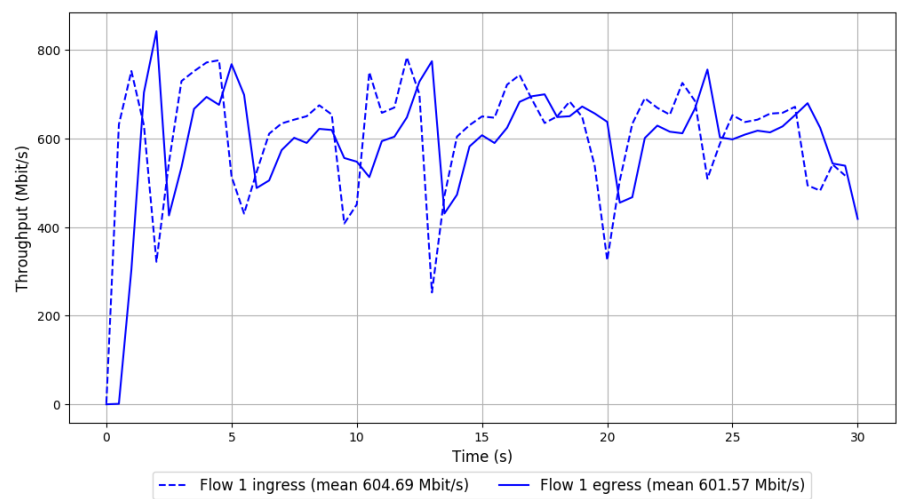
-- Flow 1:

Average throughput: 601.57 Mbit/s

95th percentile per-packet one-way delay: 242.214 ms

Loss rate: 0.85%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-07-02 00:02:03

End at: 2018-07-02 00:02:33

Local clock offset: 0.072 ms

Remote clock offset: 0.09 ms

Below is generated by plot.py at 2018-07-02 03:03:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 651.40 Mbit/s

95th percentile per-packet one-way delay: 226.390 ms

Loss rate: 0.65%

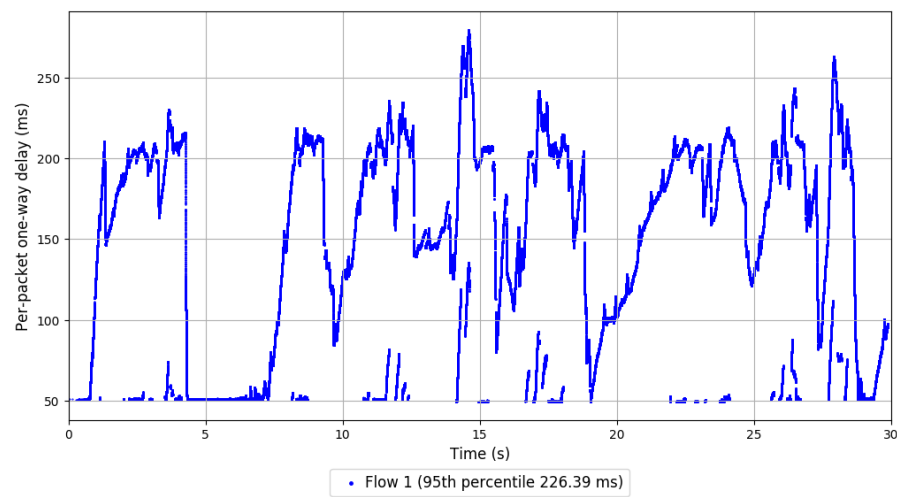
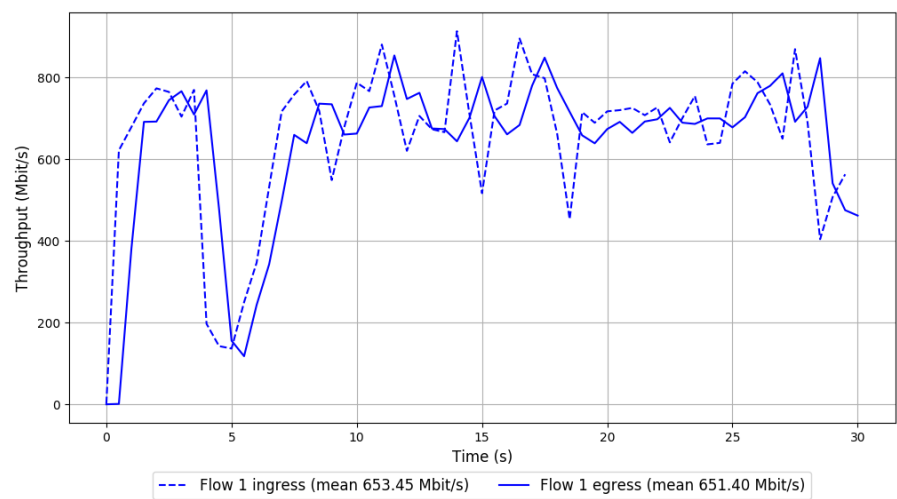
-- Flow 1:

Average throughput: 651.40 Mbit/s

95th percentile per-packet one-way delay: 226.390 ms

Loss rate: 0.65%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-07-02 00:23:07

End at: 2018-07-02 00:23:37

Local clock offset: -0.283 ms

Remote clock offset: -0.1 ms

Below is generated by plot.py at 2018-07-02 03:03:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 671.36 Mbit/s

95th percentile per-packet one-way delay: 234.679 ms

Loss rate: 0.28%

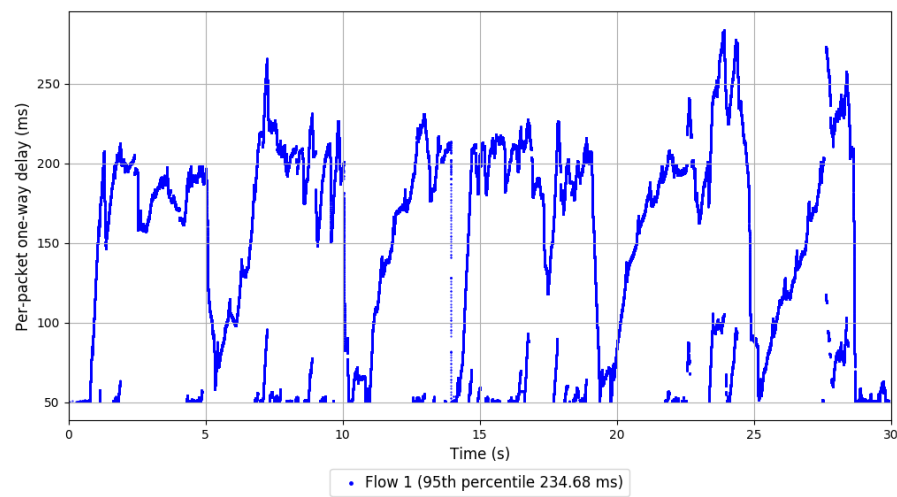
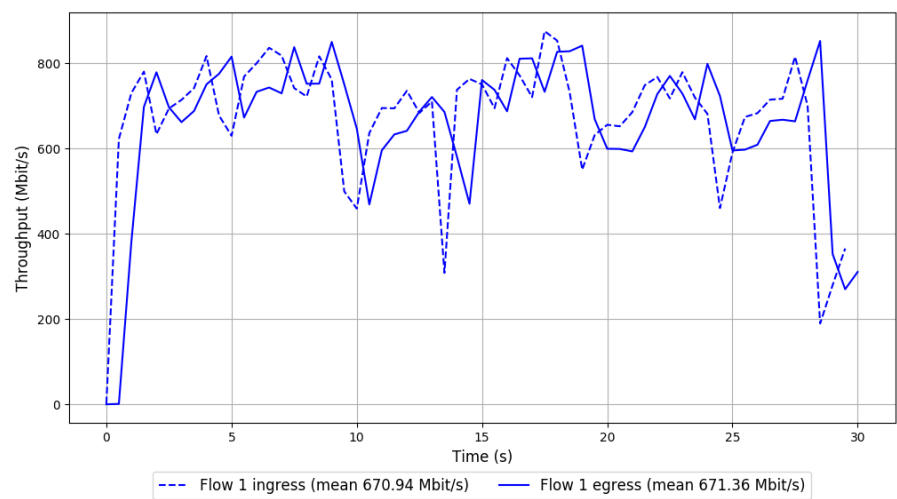
-- Flow 1:

Average throughput: 671.36 Mbit/s

95th percentile per-packet one-way delay: 234.679 ms

Loss rate: 0.28%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-07-02 00:43:58

End at: 2018-07-02 00:44:28

Local clock offset: 0.068 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2018-07-02 03:03:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 490.65 Mbit/s

95th percentile per-packet one-way delay: 231.760 ms

Loss rate: 0.85%

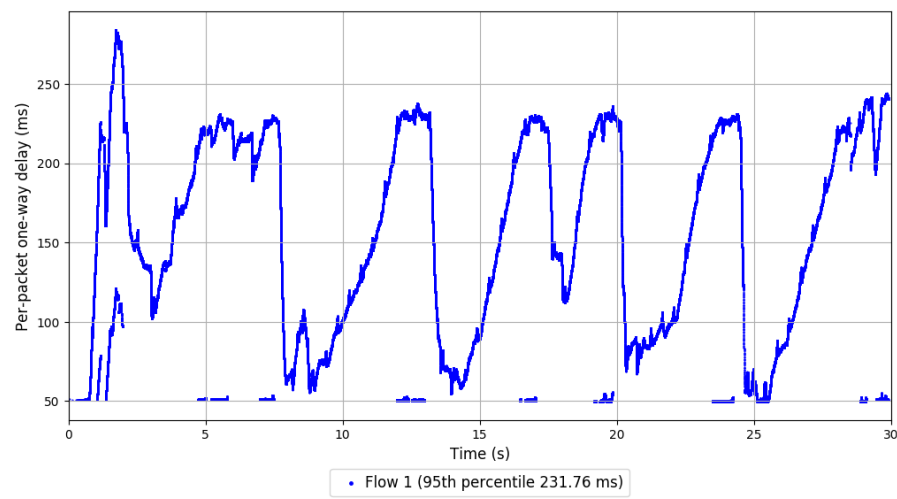
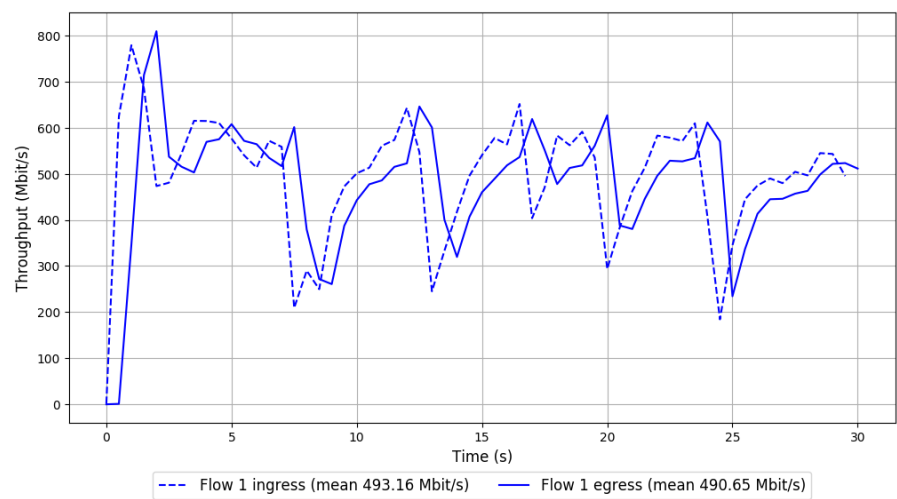
-- Flow 1:

Average throughput: 490.65 Mbit/s

95th percentile per-packet one-way delay: 231.760 ms

Loss rate: 0.85%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-07-02 01:04:48

End at: 2018-07-02 01:05:18

Local clock offset: 0.095 ms

Remote clock offset: 0.139 ms

Below is generated by plot.py at 2018-07-02 03:03:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 515.37 Mbit/s

95th percentile per-packet one-way delay: 228.416 ms

Loss rate: 0.66%

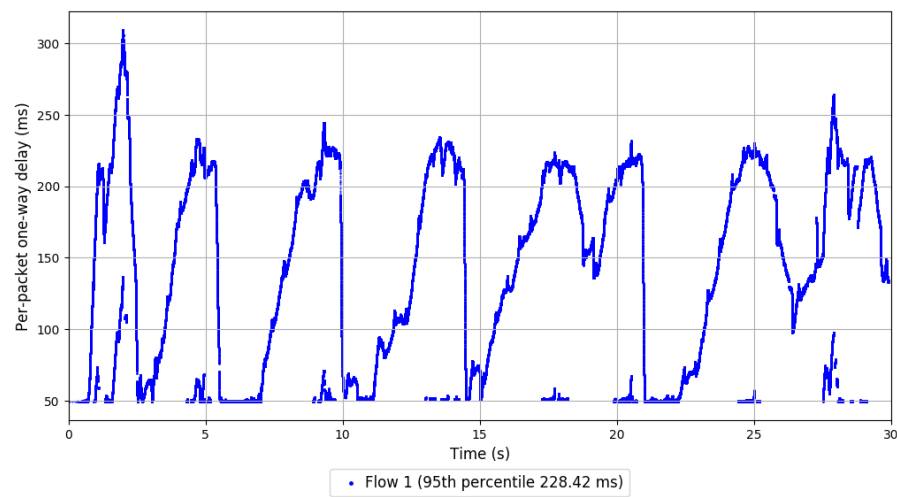
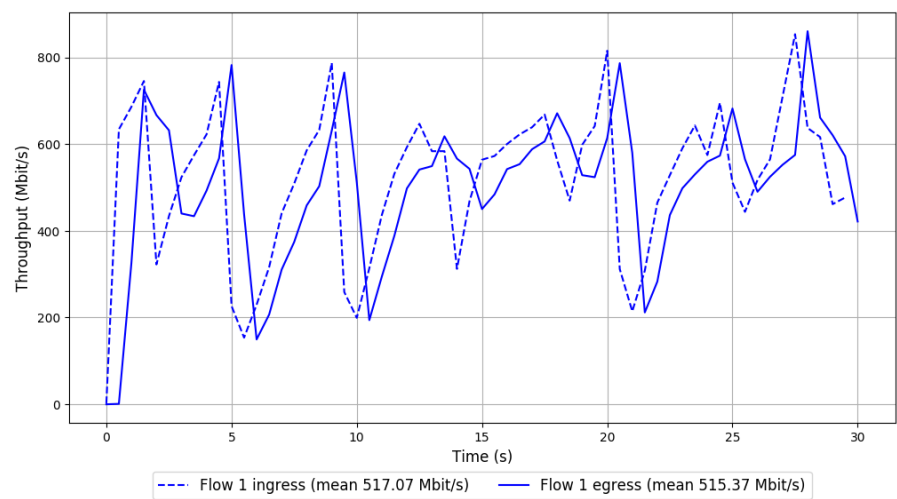
-- Flow 1:

Average throughput: 515.37 Mbit/s

95th percentile per-packet one-way delay: 228.416 ms

Loss rate: 0.66%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-07-02 01:25:49

End at: 2018-07-02 01:26:19

Local clock offset: -0.308 ms

Remote clock offset: 0.034 ms

Below is generated by plot.py at 2018-07-02 03:03:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 493.73 Mbit/s

95th percentile per-packet one-way delay: 228.894 ms

Loss rate: 1.20%

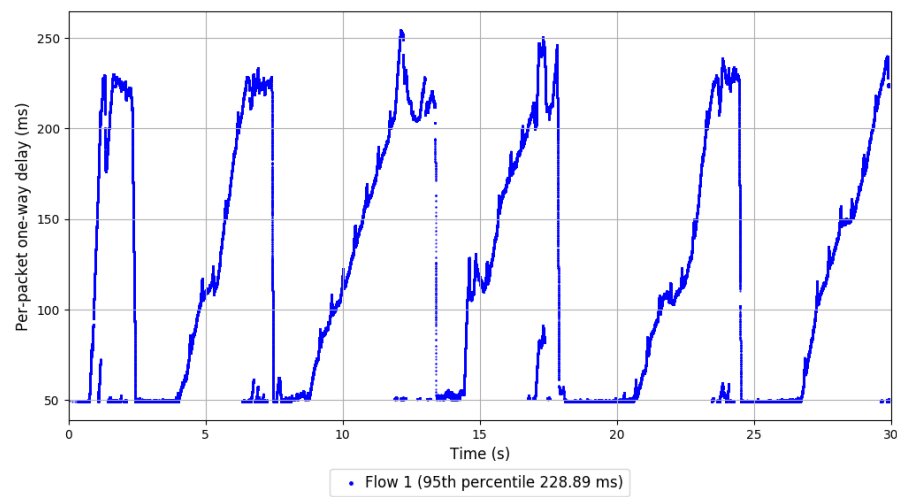
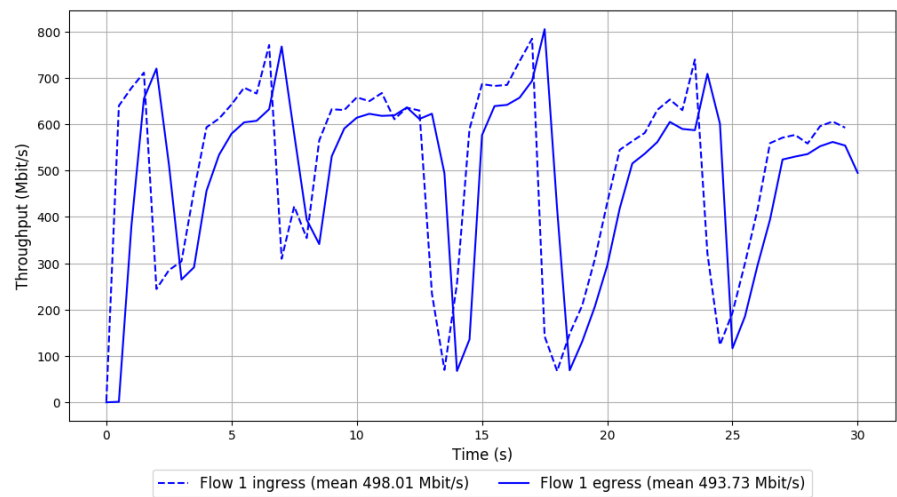
-- Flow 1:

Average throughput: 493.73 Mbit/s

95th percentile per-packet one-way delay: 228.894 ms

Loss rate: 1.20%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-07-02 01:47:03

End at: 2018-07-02 01:47:33

Local clock offset: 0.09 ms

Remote clock offset: -0.03 ms

Below is generated by plot.py at 2018-07-02 03:04:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 549.82 Mbit/s

95th percentile per-packet one-way delay: 231.735 ms

Loss rate: 1.00%

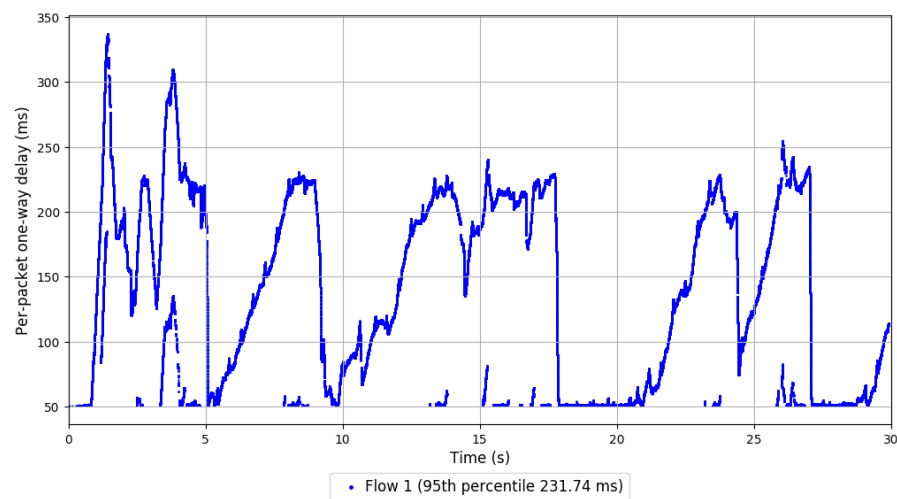
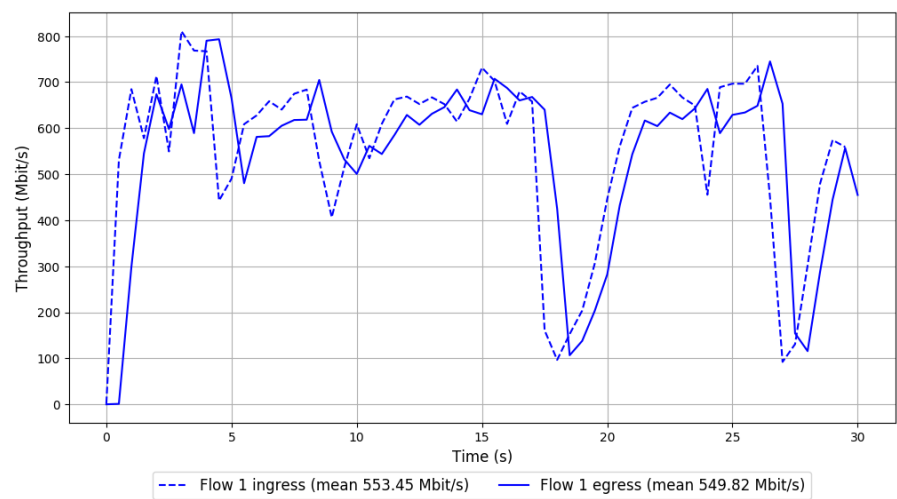
-- Flow 1:

Average throughput: 549.82 Mbit/s

95th percentile per-packet one-way delay: 231.735 ms

Loss rate: 1.00%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-07-02 02:08:08

End at: 2018-07-02 02:08:38

Local clock offset: 0.114 ms

Remote clock offset: 0.152 ms

Below is generated by plot.py at 2018-07-02 03:10:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 397.96 Mbit/s

95th percentile per-packet one-way delay: 239.986 ms

Loss rate: 3.71%

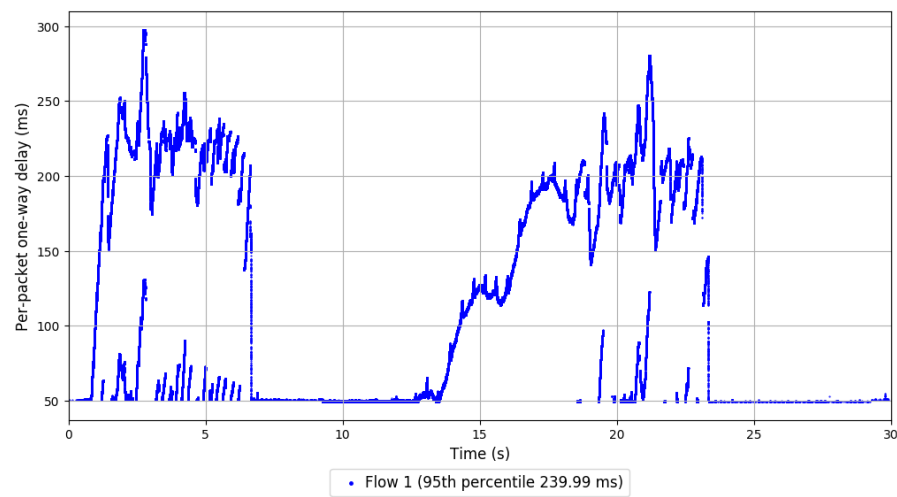
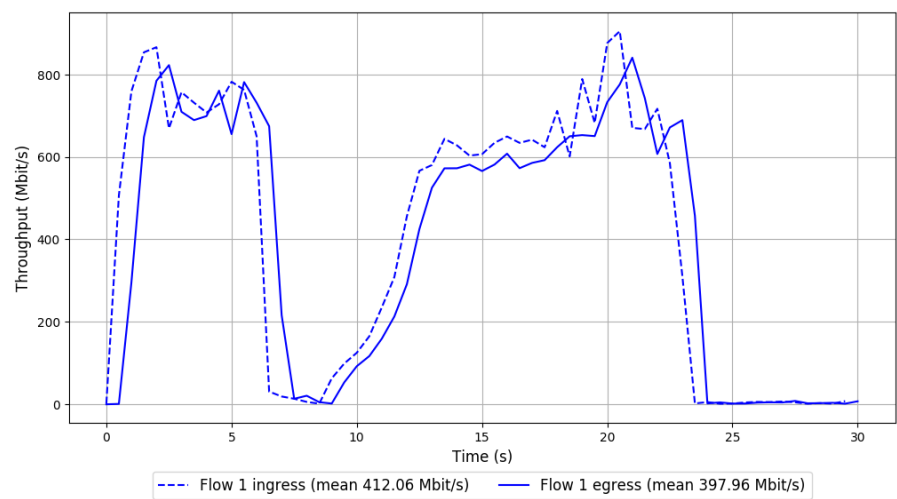
-- Flow 1:

Average throughput: 397.96 Mbit/s

95th percentile per-packet one-way delay: 239.986 ms

Loss rate: 3.71%

Run 9: Report of FillP — Data Link

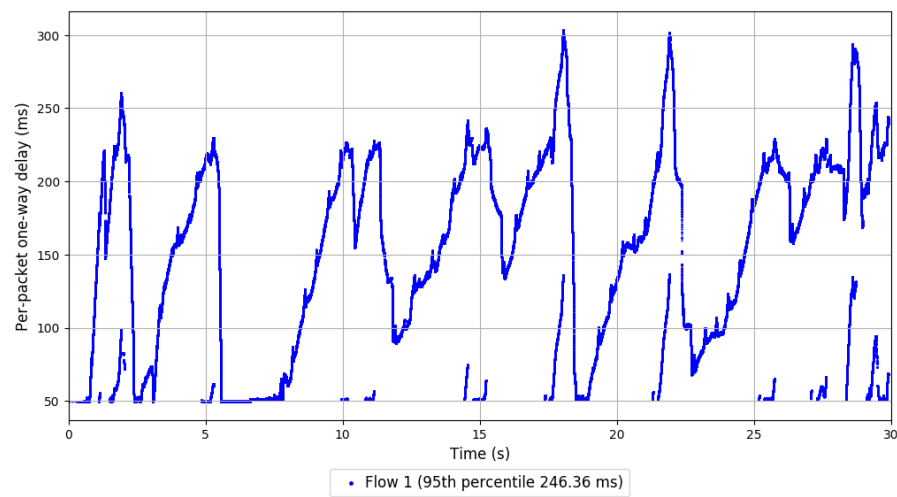
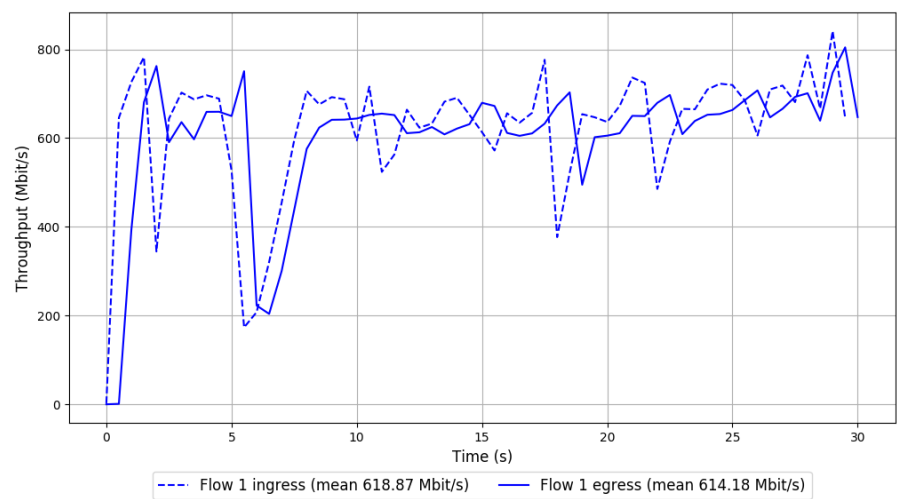


Run 10: Statistics of FillP

Start at: 2018-07-02 02:29:01
End at: 2018-07-02 02:29:31
Local clock offset: 0.093 ms
Remote clock offset: -0.077 ms

Below is generated by plot.py at 2018-07-02 03:15:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 614.18 Mbit/s
95th percentile per-packet one-way delay: 246.363 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 614.18 Mbit/s
95th percentile per-packet one-way delay: 246.363 ms
Loss rate: 1.09%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

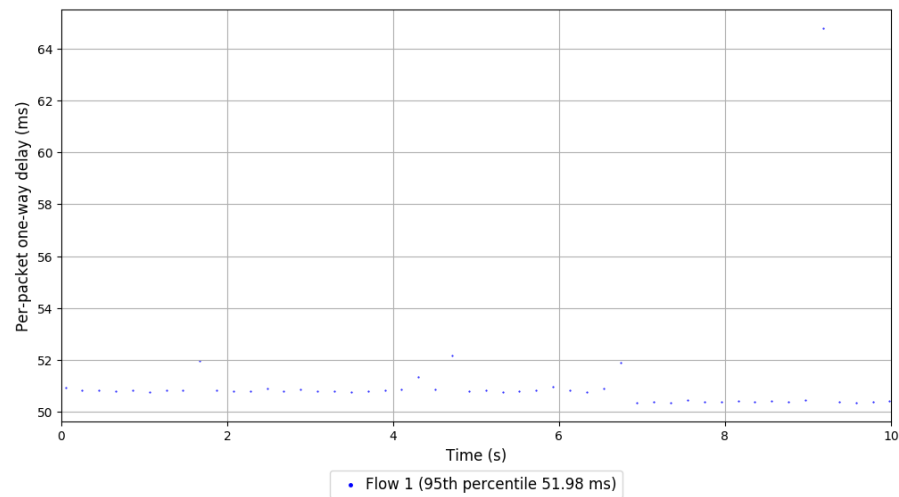
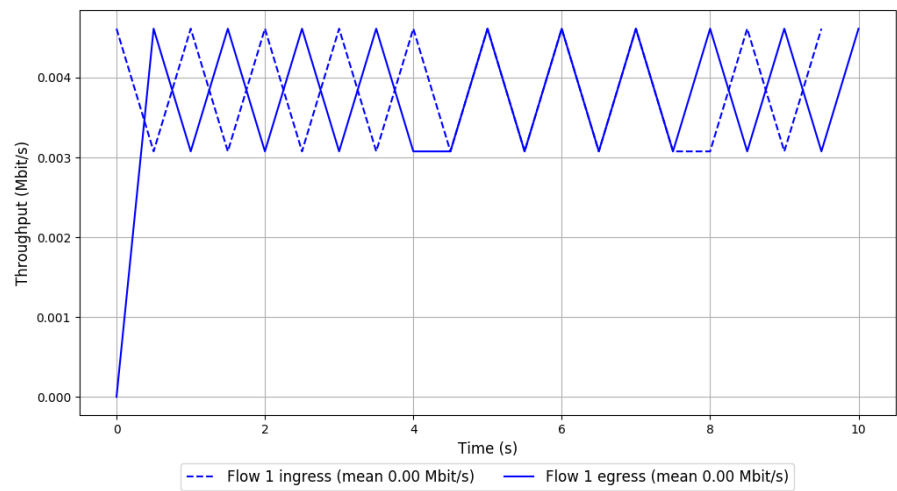
Start at: 2018-07-01 23:15:20

End at: 2018-07-01 23:15:50

Local clock offset: 0.044 ms

Remote clock offset: -0.028 ms

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

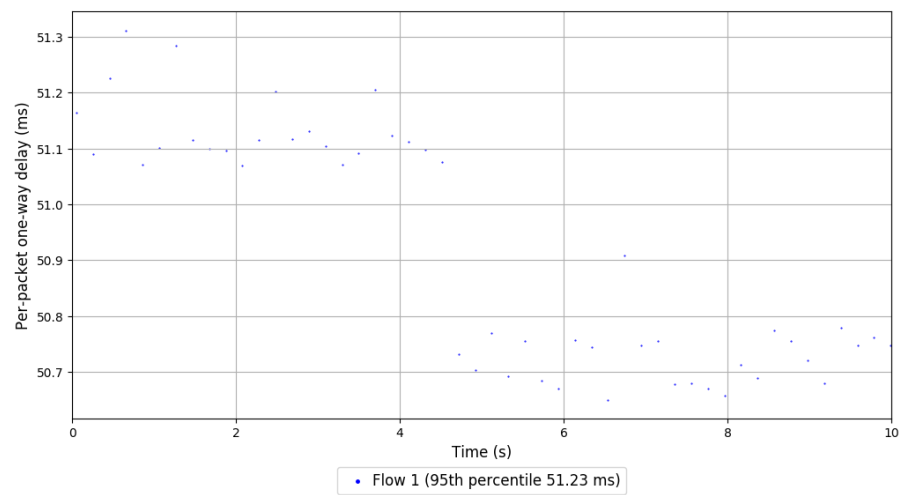
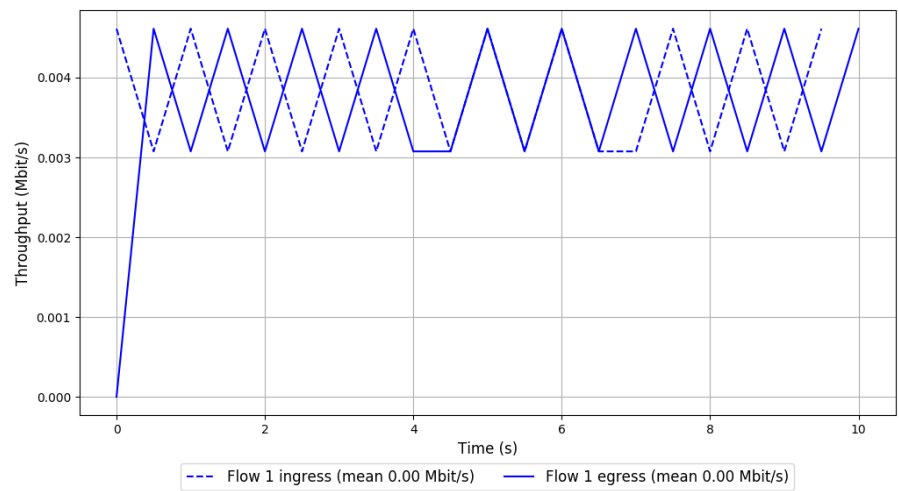
Start at: 2018-07-01 23:36:12

End at: 2018-07-01 23:36:42

Local clock offset: 0.444 ms

Remote clock offset: 0.067 ms

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

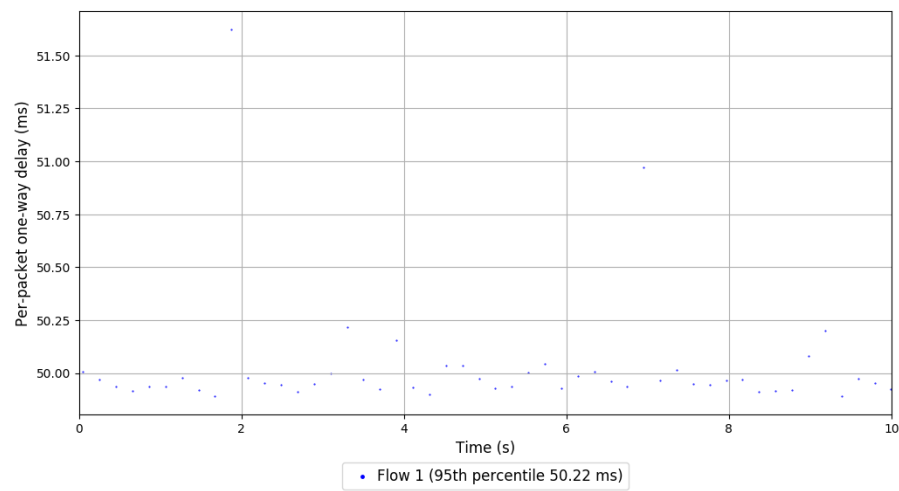
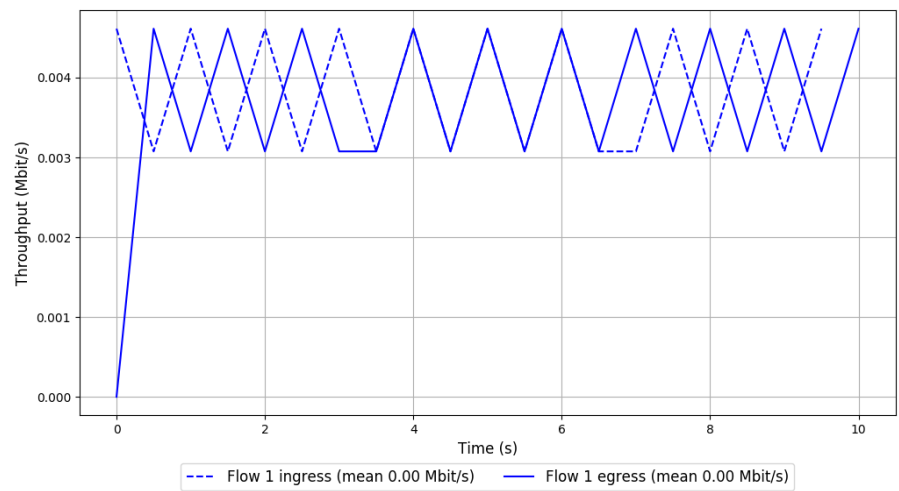
Start at: 2018-07-01 23:57:18

End at: 2018-07-01 23:57:48

Local clock offset: -0.267 ms

Remote clock offset: 0.118 ms

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

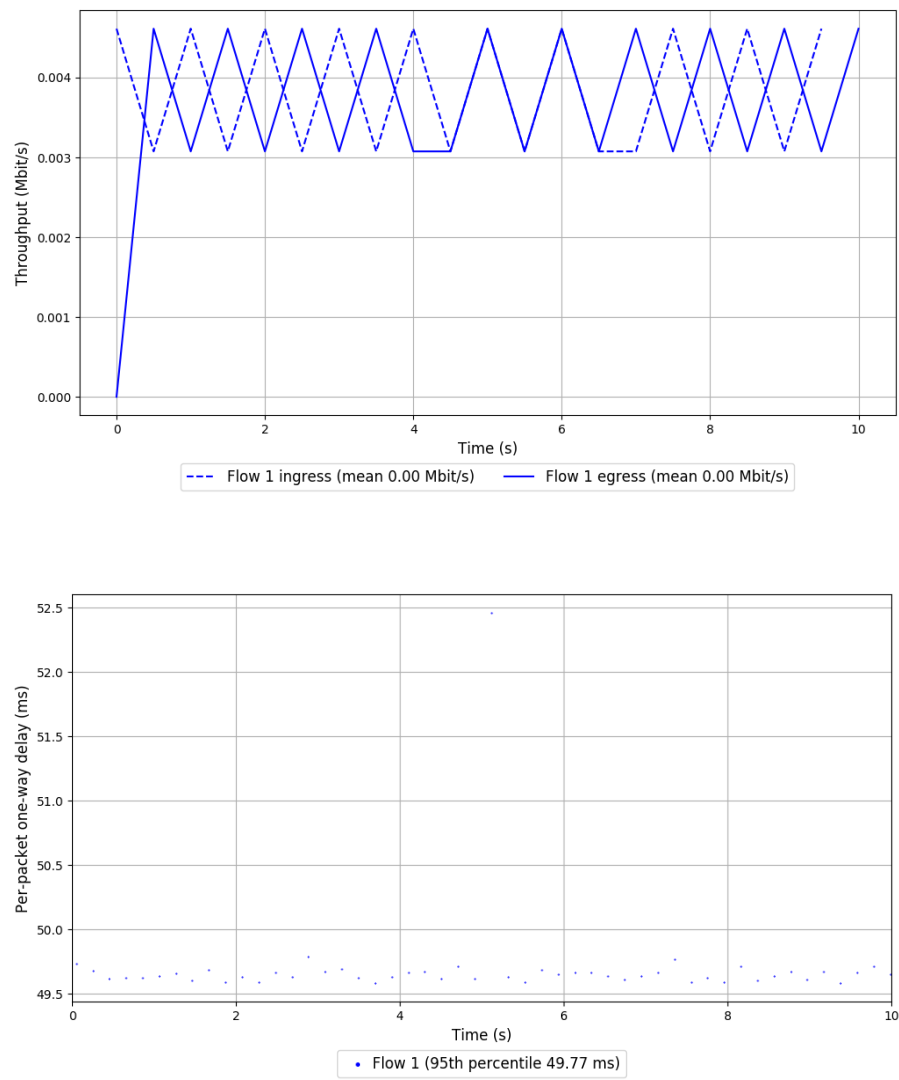
Start at: 2018-07-02 00:18:21

End at: 2018-07-02 00:18:51

Local clock offset: 0.049 ms

Remote clock offset: -0.094 ms

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

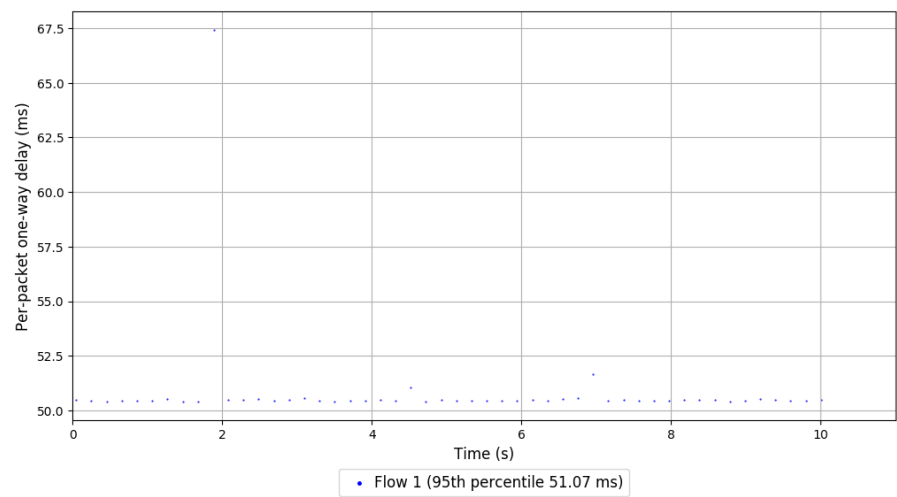
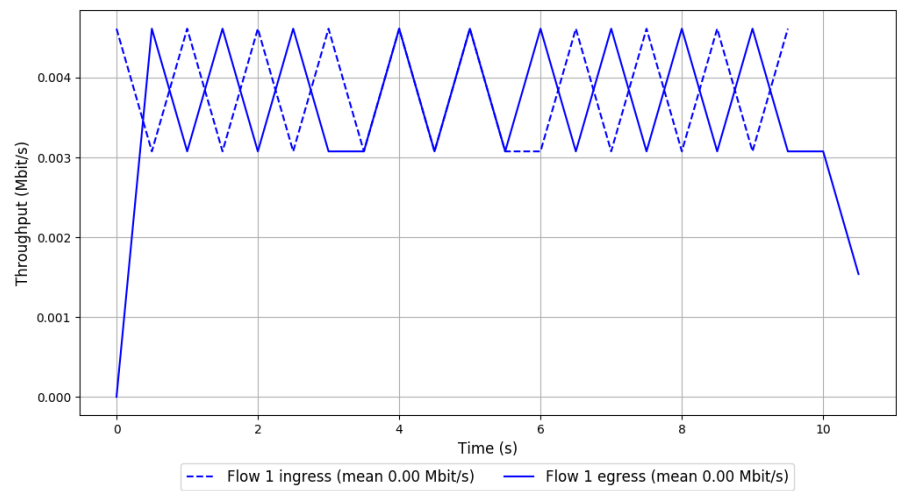
Start at: 2018-07-02 00:39:16

End at: 2018-07-02 00:39:46

Local clock offset: -0.307 ms

Remote clock offset: -0.079 ms

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

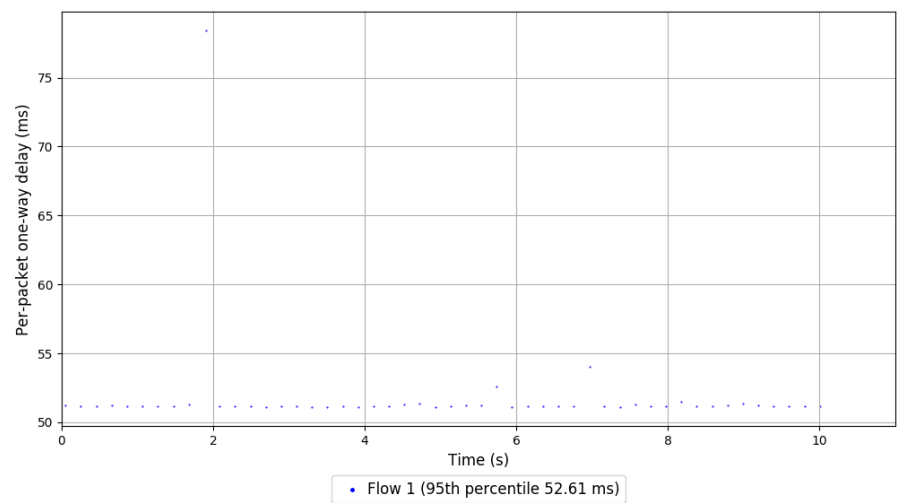
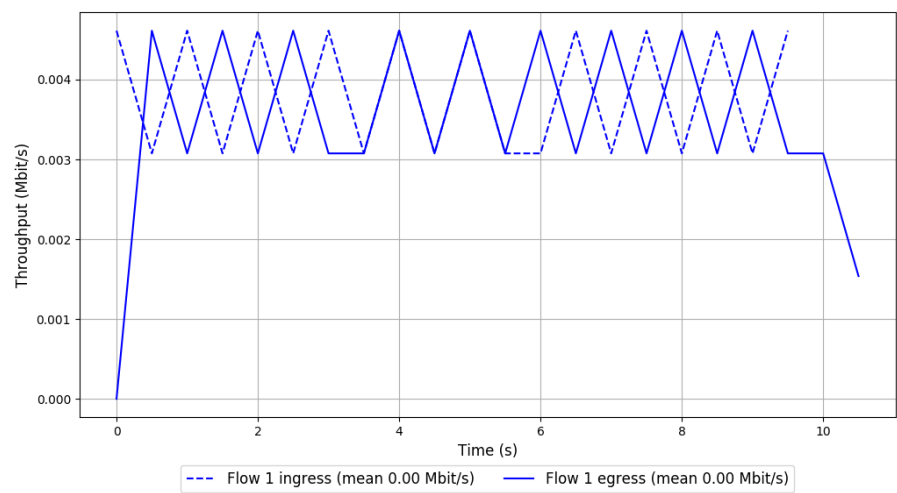
Start at: 2018-07-02 01:00:06

End at: 2018-07-02 01:00:36

Local clock offset: 0.473 ms

Remote clock offset: 0.16 ms

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

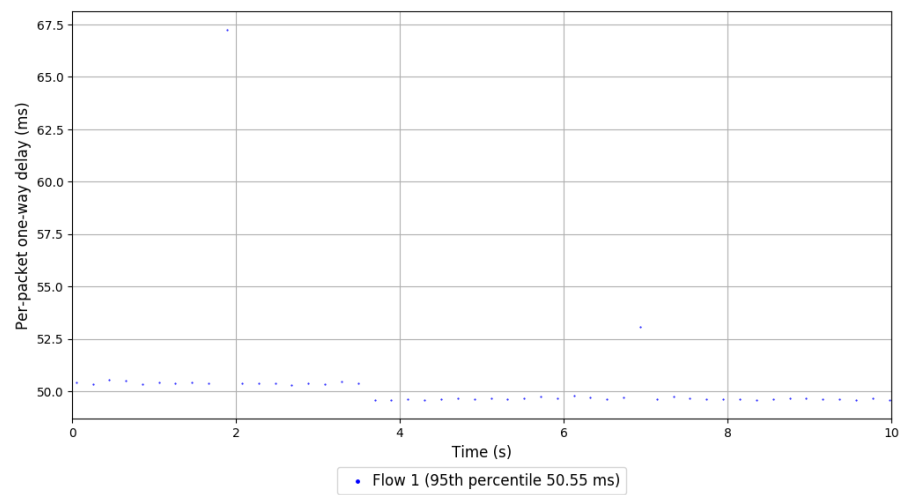
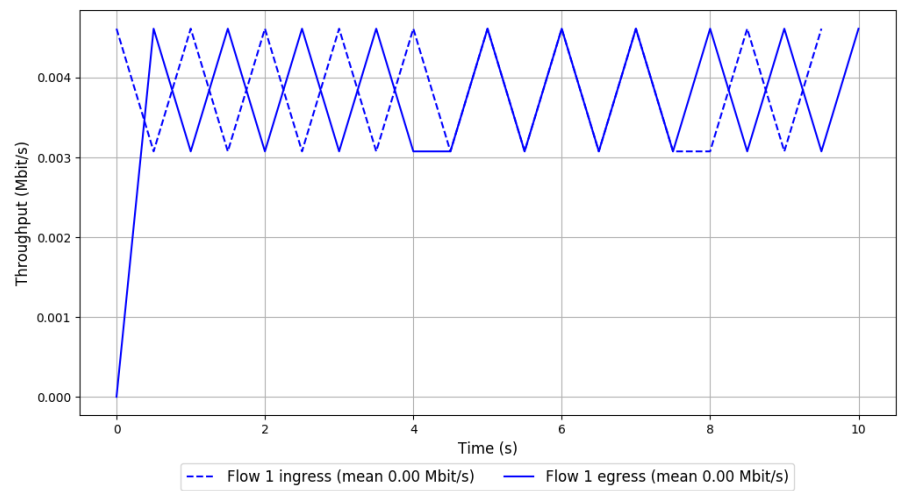
Start at: 2018-07-02 01:21:03

End at: 2018-07-02 01:21:33

Local clock offset: 0.076 ms

Remote clock offset: 0.038 ms

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

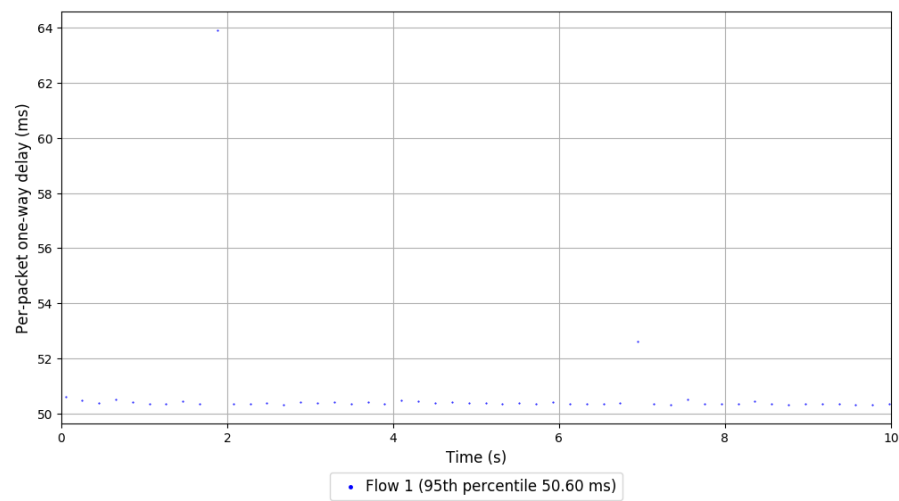
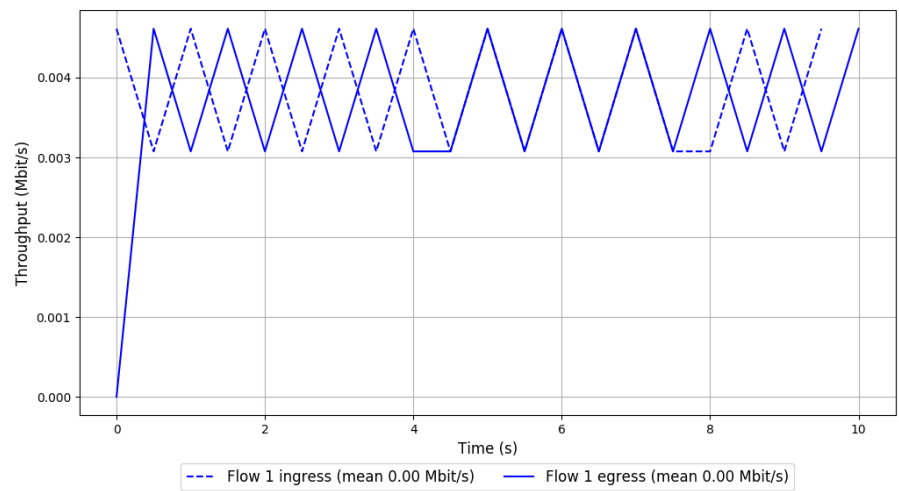
Start at: 2018-07-02 01:42:18

End at: 2018-07-02 01:42:48

Local clock offset: 0.098 ms

Remote clock offset: -0.058 ms

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

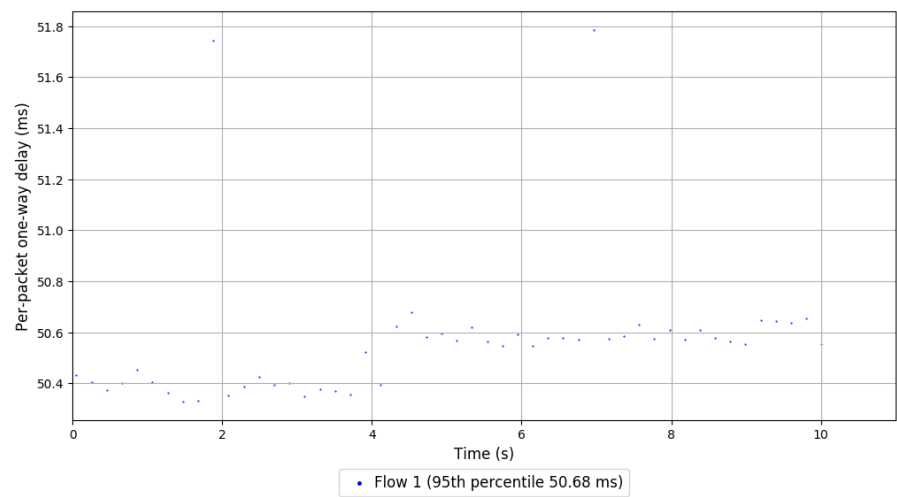
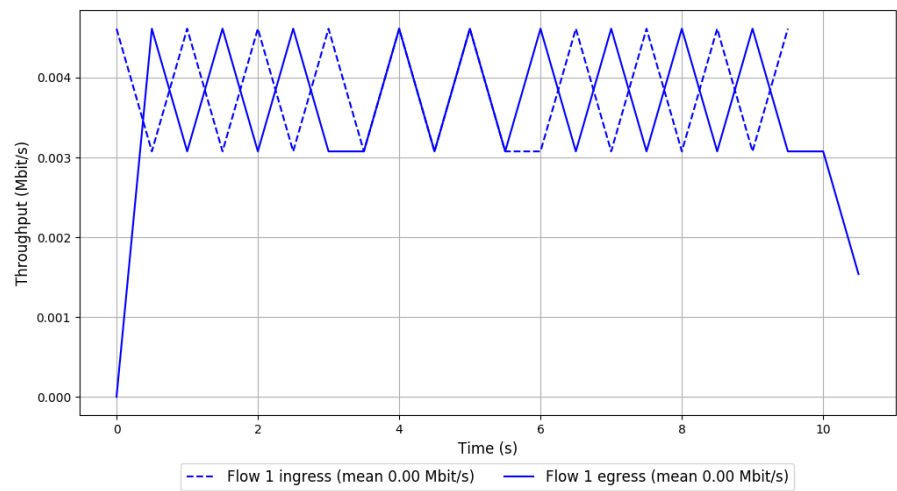
Start at: 2018-07-02 02:03:23

End at: 2018-07-02 02:03:53

Local clock offset: -0.275 ms

Remote clock offset: -0.016 ms

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

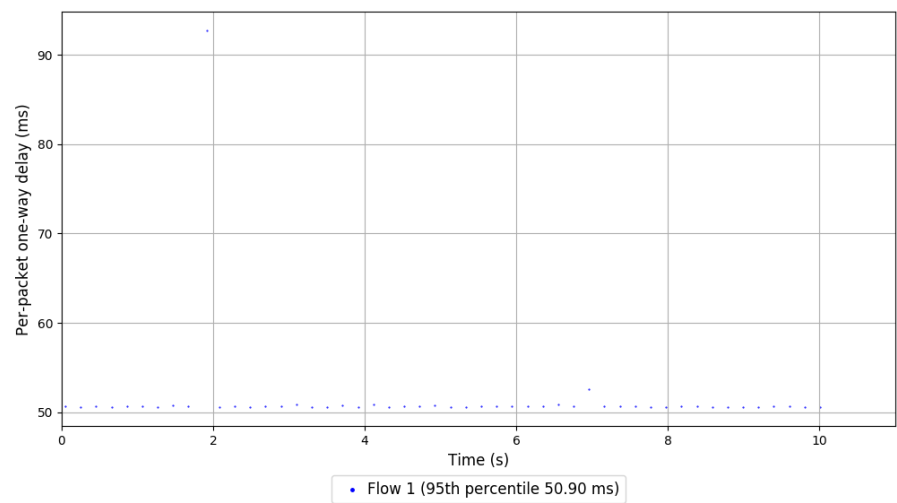
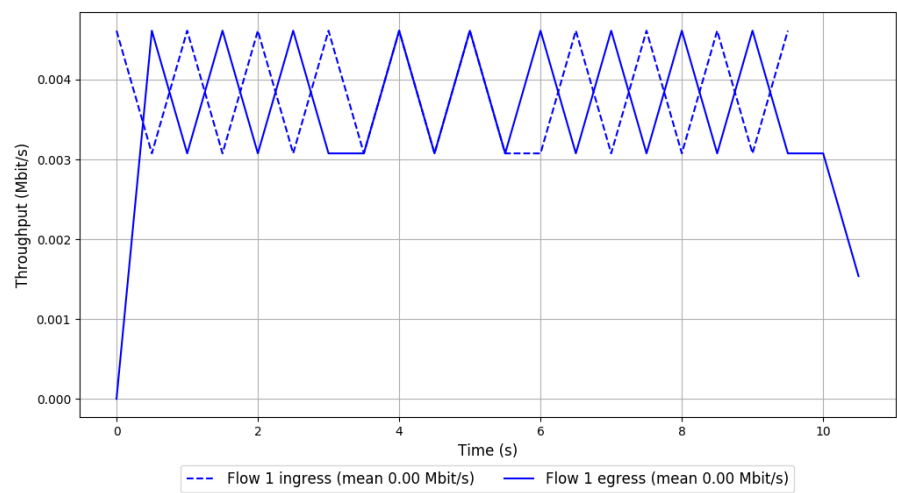
Start at: 2018-07-02 02:24:16

End at: 2018-07-02 02:24:46

Local clock offset: 0.072 ms

Remote clock offset: -0.022 ms

Run 10: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

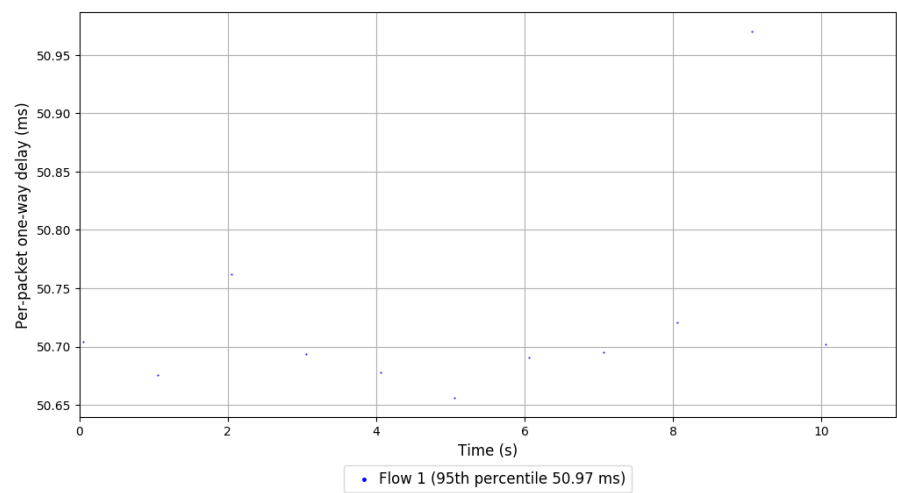
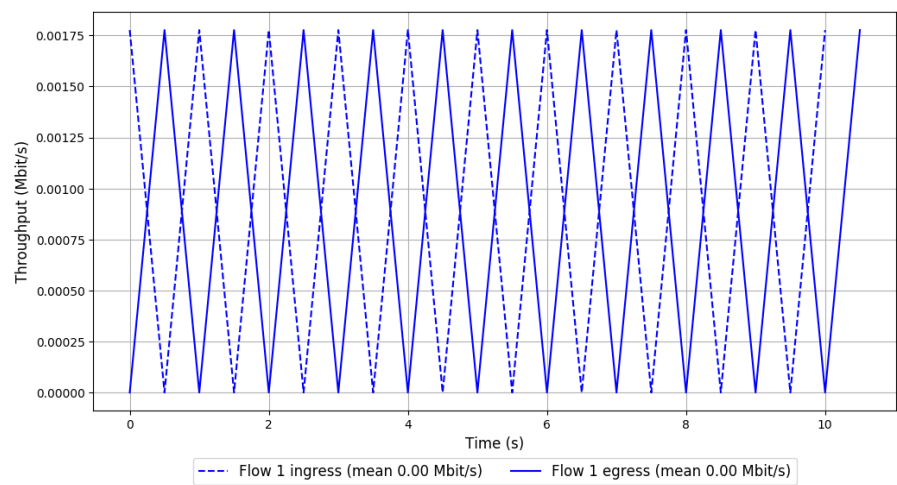
Start at: 2018-07-01 23:14:15

End at: 2018-07-01 23:14:45

Local clock offset: 0.431 ms

Remote clock offset: 0.016 ms

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-07-01 23:34:56

End at: 2018-07-01 23:35:26

Local clock offset: 0.426 ms

Remote clock offset: 0.059 ms

Below is generated by plot.py at 2018-07-02 03:15:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.58 Mbit/s

95th percentile per-packet one-way delay: 51.396 ms

Loss rate: 0.33%

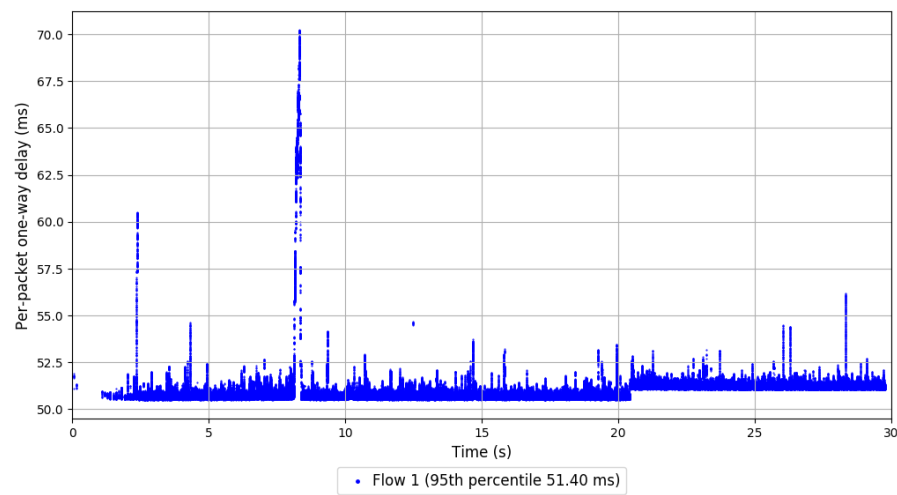
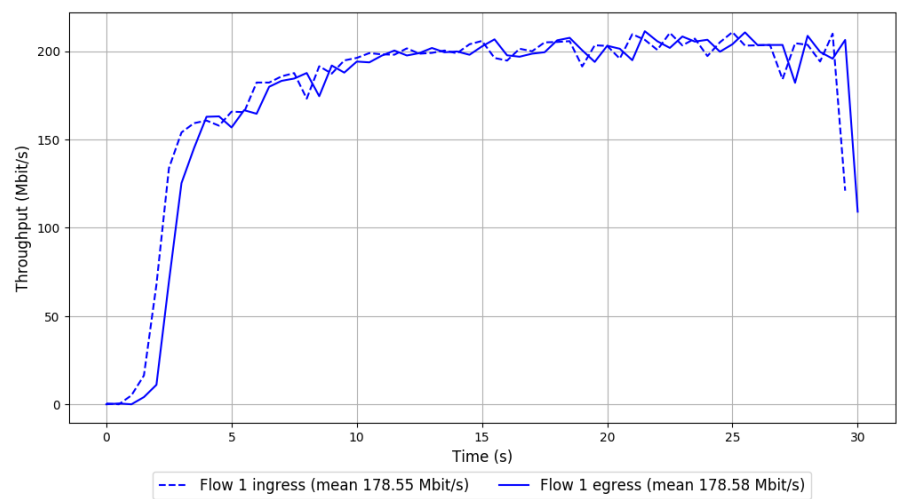
-- Flow 1:

Average throughput: 178.58 Mbit/s

95th percentile per-packet one-way delay: 51.396 ms

Loss rate: 0.33%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-07-01 23:56:02

End at: 2018-07-01 23:56:32

Local clock offset: -0.256 ms

Remote clock offset: 0.091 ms

Below is generated by plot.py at 2018-07-02 03:15:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.03 Mbit/s

95th percentile per-packet one-way delay: 50.772 ms

Loss rate: 0.34%

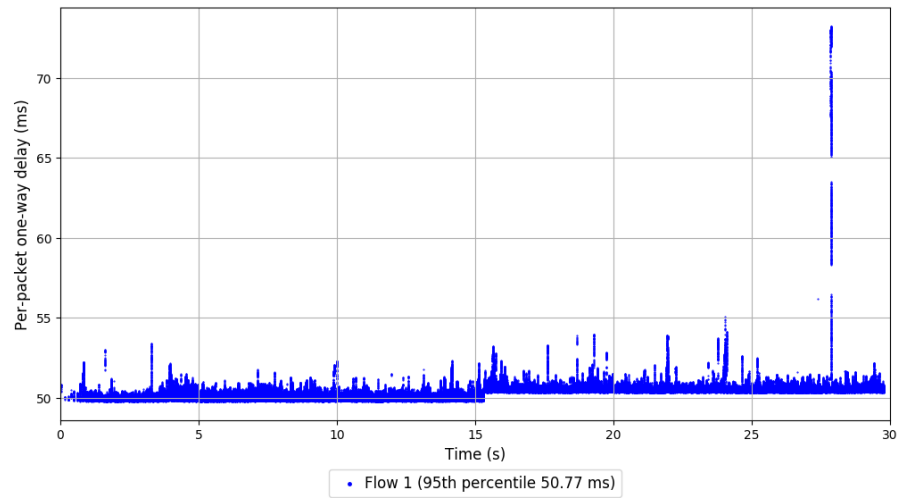
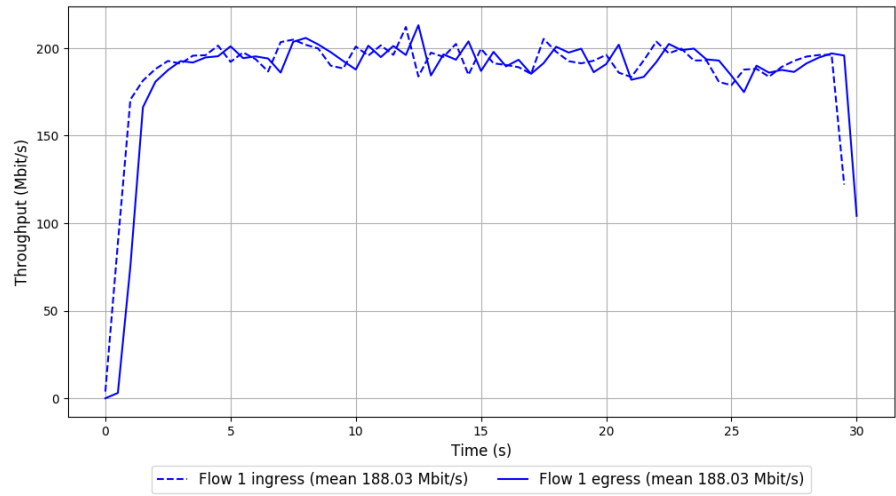
-- Flow 1:

Average throughput: 188.03 Mbit/s

95th percentile per-packet one-way delay: 50.772 ms

Loss rate: 0.34%

Run 3: Report of Indigo — Data Link

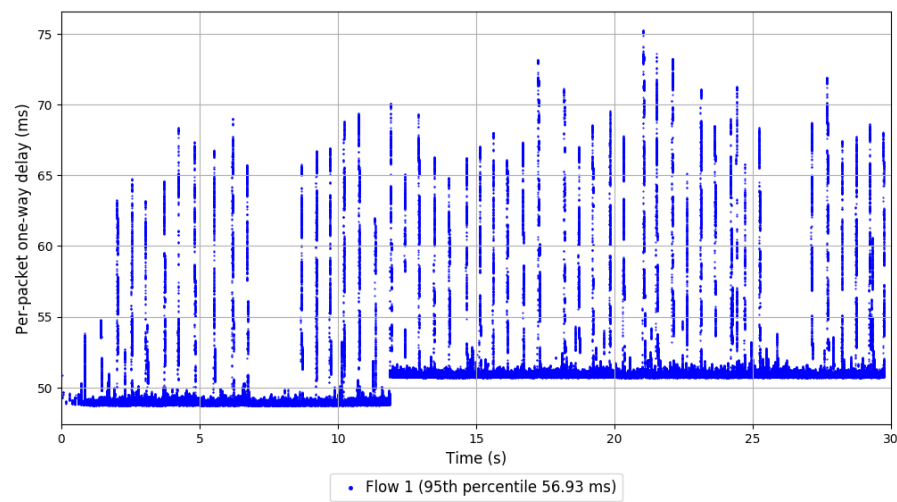
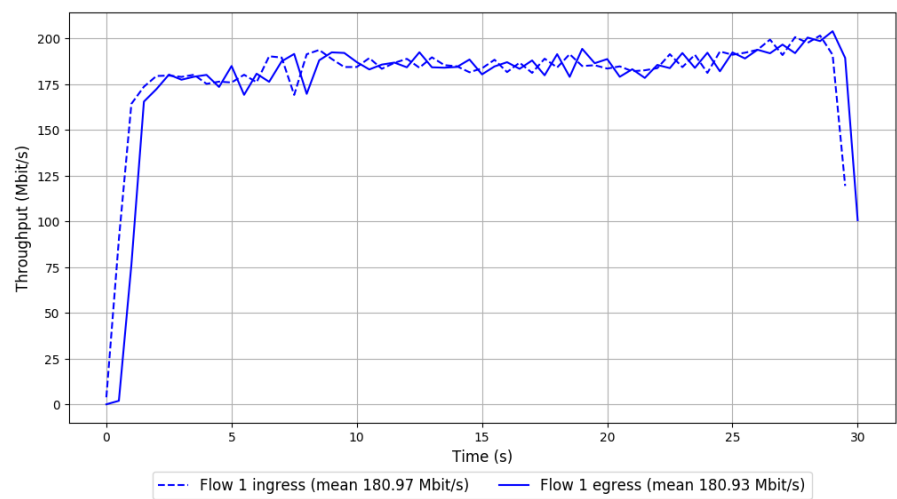


Run 4: Statistics of Indigo

Start at: 2018-07-02 00:17:05
End at: 2018-07-02 00:17:35
Local clock offset: 0.109 ms
Remote clock offset: -0.048 ms

Below is generated by plot.py at 2018-07-02 03:15:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 180.93 Mbit/s
95th percentile per-packet one-way delay: 56.929 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 180.93 Mbit/s
95th percentile per-packet one-way delay: 56.929 ms
Loss rate: 0.36%

Run 4: Report of Indigo — Data Link

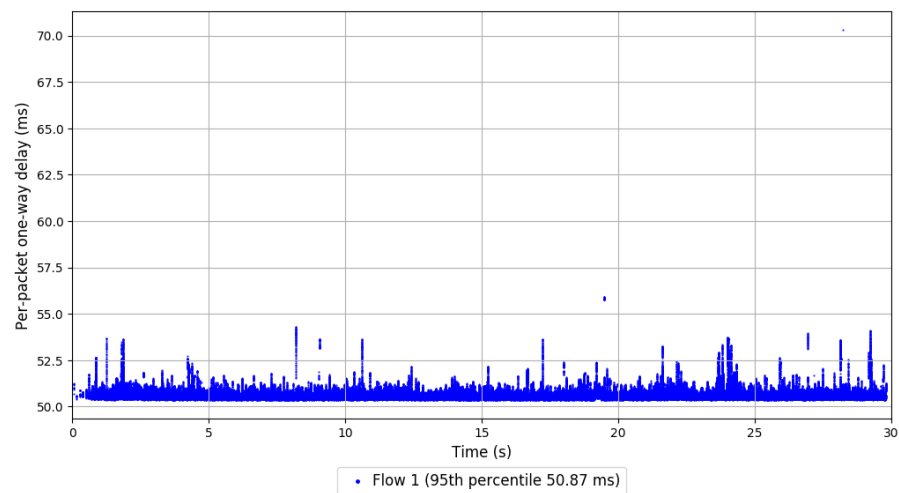
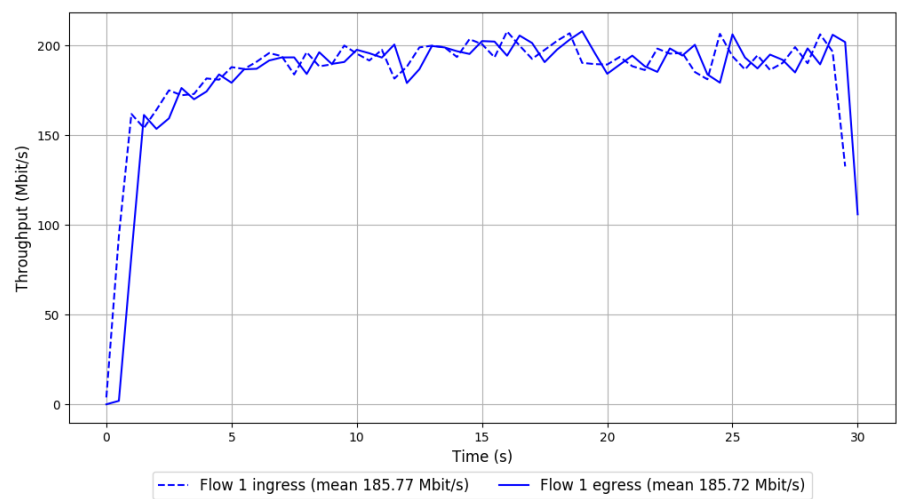


Run 5: Statistics of Indigo

Start at: 2018-07-02 00:37:59
End at: 2018-07-02 00:38:29
Local clock offset: -0.328 ms
Remote clock offset: -0.187 ms

Below is generated by plot.py at 2018-07-02 03:15:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 185.72 Mbit/s
95th percentile per-packet one-way delay: 50.874 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 185.72 Mbit/s
95th percentile per-packet one-way delay: 50.874 ms
Loss rate: 0.38%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-07-02 00:58:49

End at: 2018-07-02 00:59:19

Local clock offset: 0.158 ms

Remote clock offset: 0.117 ms

Below is generated by plot.py at 2018-07-02 03:15:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.40 Mbit/s

95th percentile per-packet one-way delay: 50.490 ms

Loss rate: 0.36%

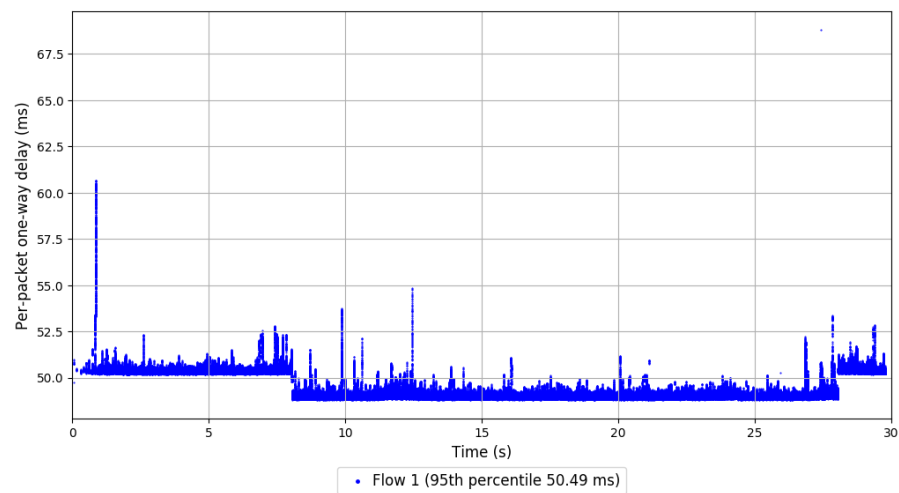
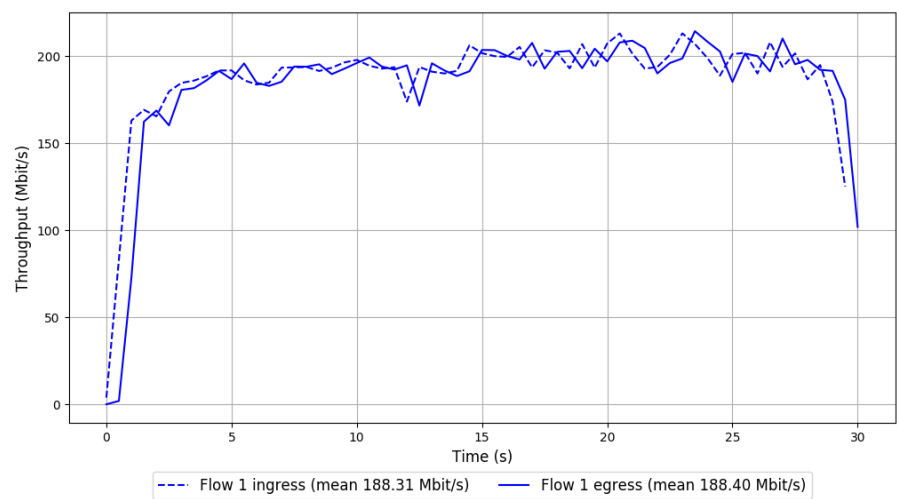
-- Flow 1:

Average throughput: 188.40 Mbit/s

95th percentile per-packet one-way delay: 50.490 ms

Loss rate: 0.36%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-07-02 01:19:47

End at: 2018-07-02 01:20:17

Local clock offset: 0.089 ms

Remote clock offset: 0.05 ms

Below is generated by plot.py at 2018-07-02 03:15:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.69 Mbit/s

95th percentile per-packet one-way delay: 50.523 ms

Loss rate: 0.36%

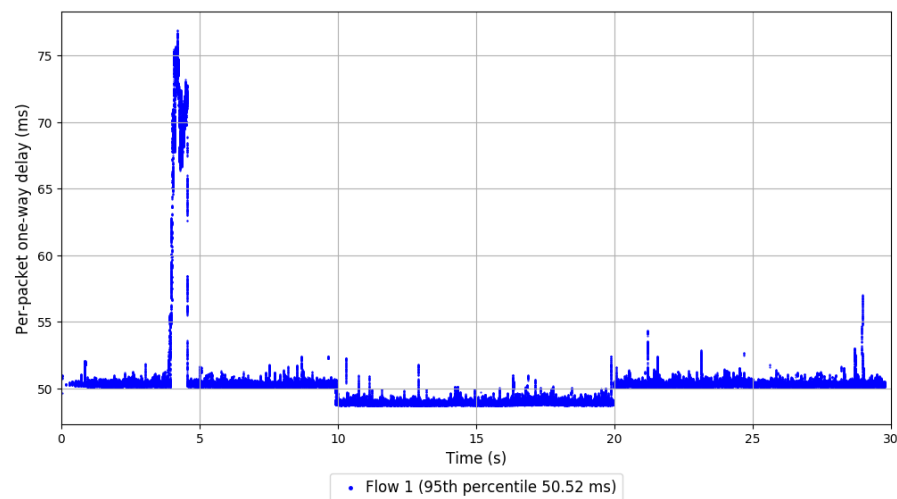
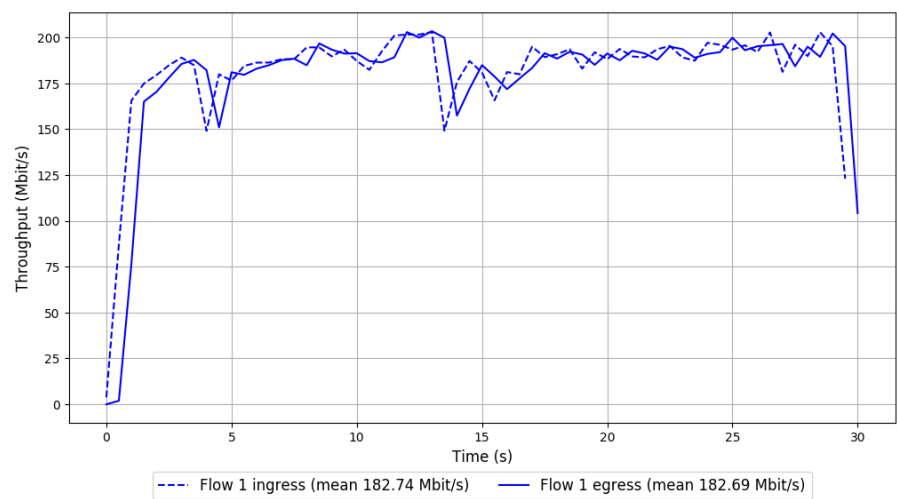
-- Flow 1:

Average throughput: 182.69 Mbit/s

95th percentile per-packet one-way delay: 50.523 ms

Loss rate: 0.36%

Run 7: Report of Indigo — Data Link

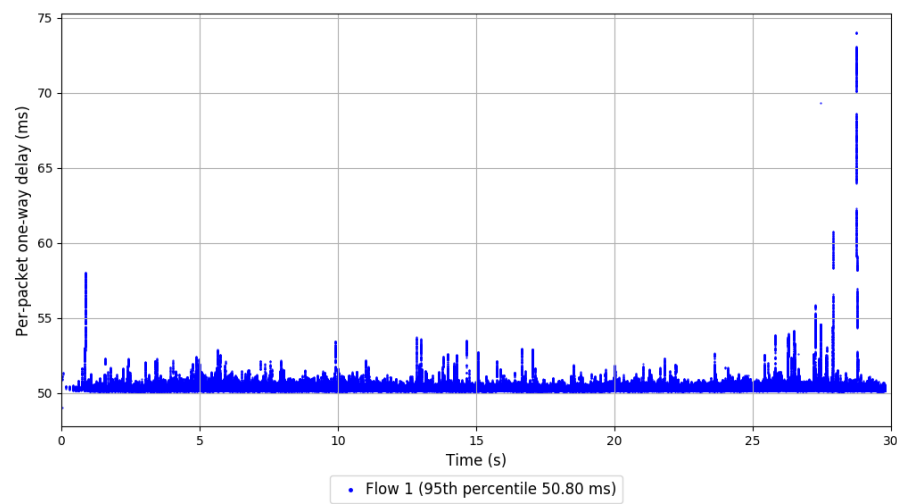
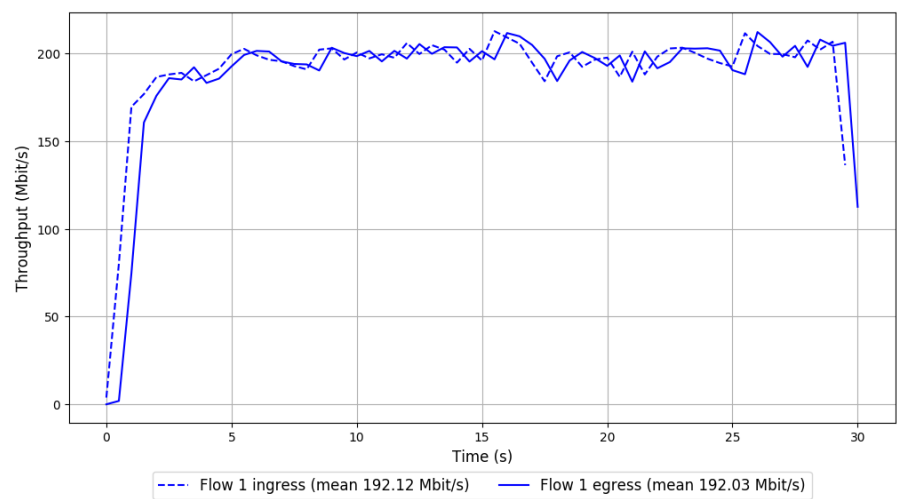


Run 8: Statistics of Indigo

Start at: 2018-07-02 01:41:01
End at: 2018-07-02 01:41:31
Local clock offset: 0.076 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-07-02 03:15:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 192.03 Mbit/s
95th percentile per-packet one-way delay: 50.804 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 192.03 Mbit/s
95th percentile per-packet one-way delay: 50.804 ms
Loss rate: 0.38%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

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

End at: 2018-07-02 02:02:36

Local clock offset: 0.102 ms

Remote clock offset: -0.034 ms

Below is generated by plot.py at 2018-07-02 03:15:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.19 Mbit/s

95th percentile per-packet one-way delay: 51.123 ms

Loss rate: 0.36%

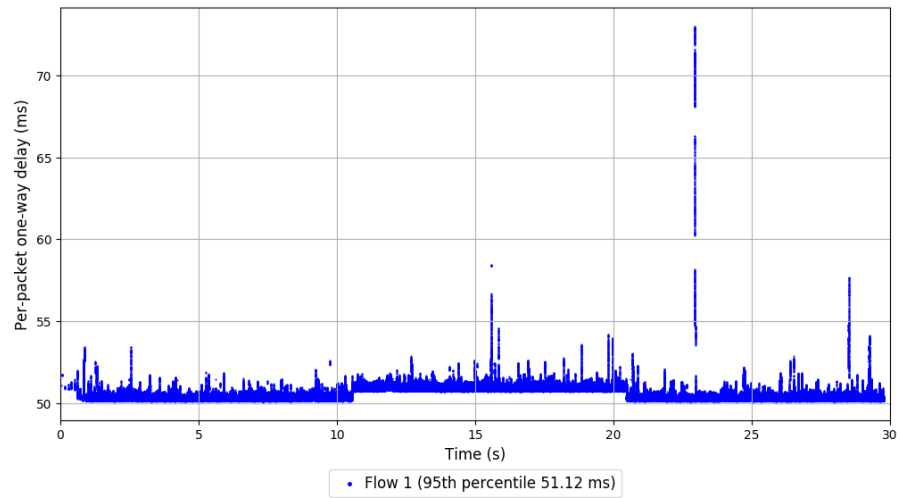
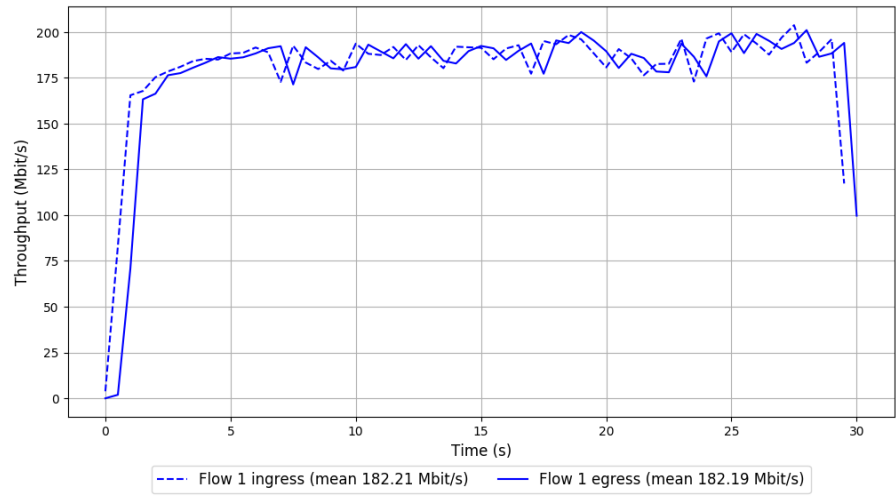
-- Flow 1:

Average throughput: 182.19 Mbit/s

95th percentile per-packet one-way delay: 51.123 ms

Loss rate: 0.36%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-07-02 02:22:59

End at: 2018-07-02 02:23:29

Local clock offset: -0.278 ms

Remote clock offset: -0.007 ms

Below is generated by plot.py at 2018-07-02 03:15:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.97 Mbit/s

95th percentile per-packet one-way delay: 50.406 ms

Loss rate: 0.37%

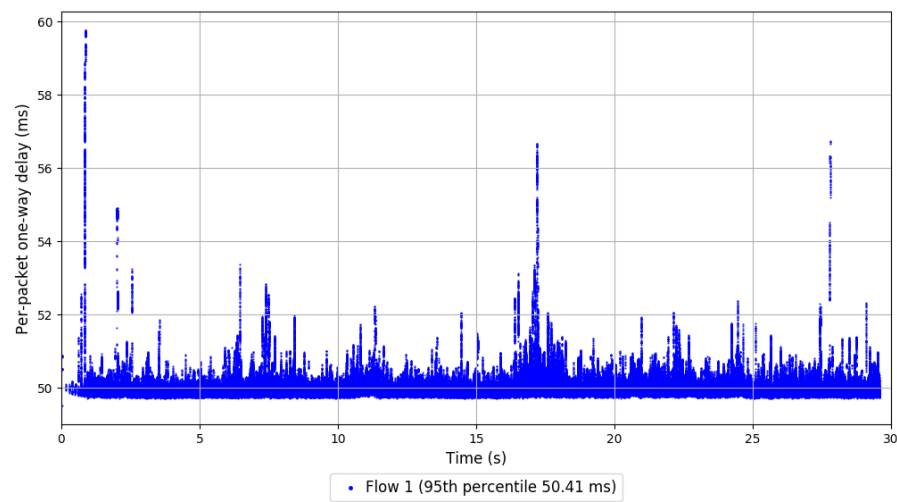
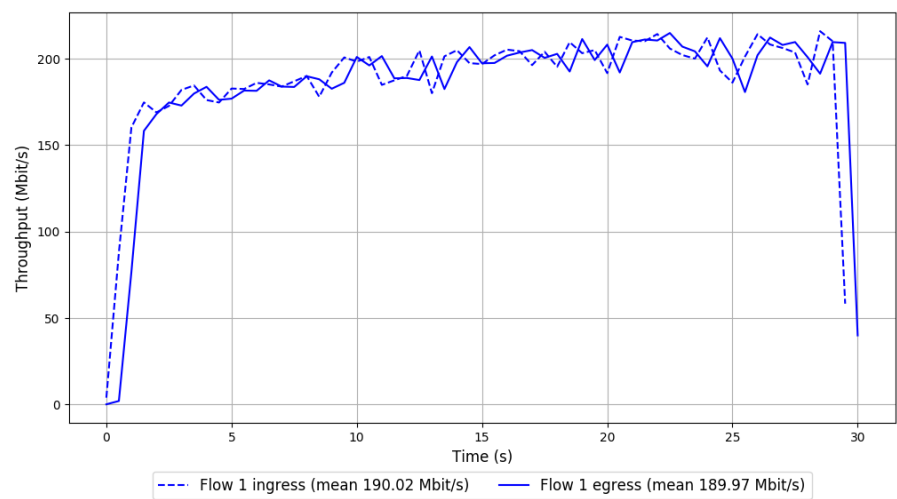
-- Flow 1:

Average throughput: 189.97 Mbit/s

95th percentile per-packet one-way delay: 50.406 ms

Loss rate: 0.37%

Run 10: Report of Indigo — Data Link

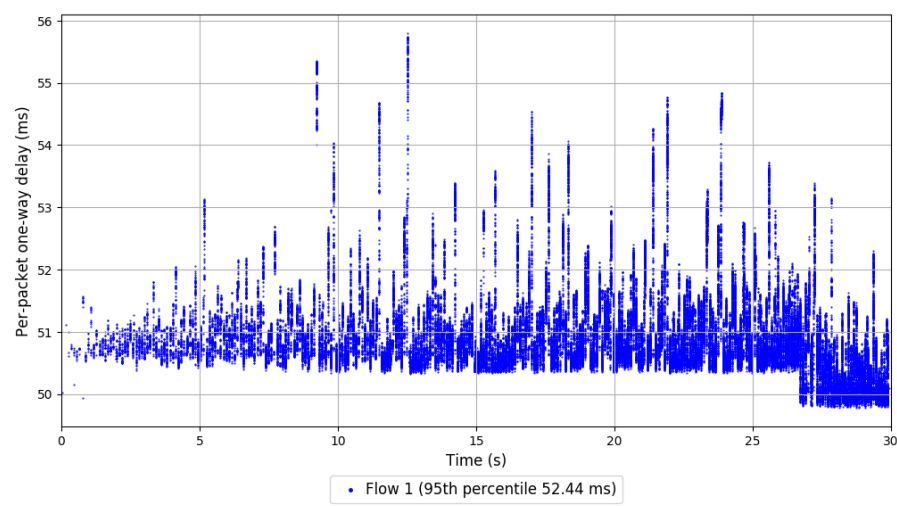
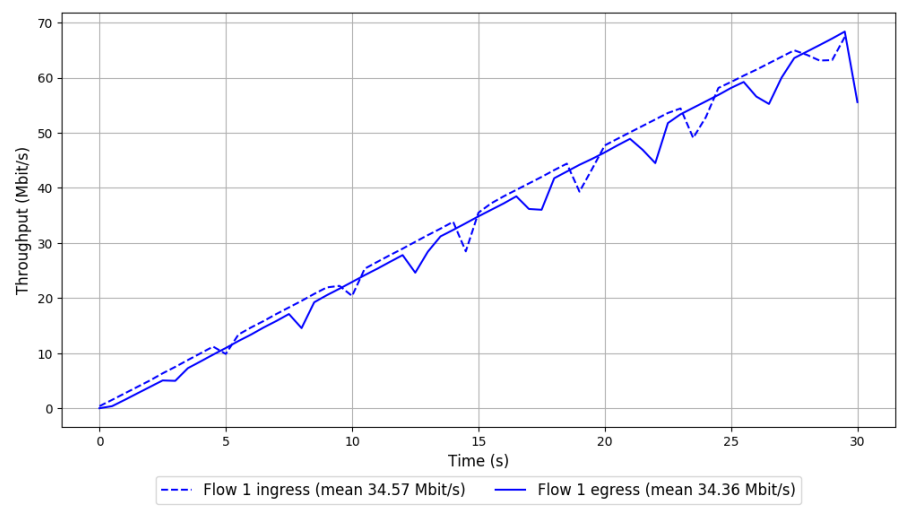


Run 1: Statistics of LEDBAT

Start at: 2018-07-01 23:04:20
End at: 2018-07-01 23:04:50
Local clock offset: -0.309 ms
Remote clock offset: -0.004 ms

Below is generated by plot.py at 2018-07-02 03:15:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 34.36 Mbit/s
95th percentile per-packet one-way delay: 52.439 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 34.36 Mbit/s
95th percentile per-packet one-way delay: 52.439 ms
Loss rate: 0.68%

Run 1: Report of LEDBAT — Data Link

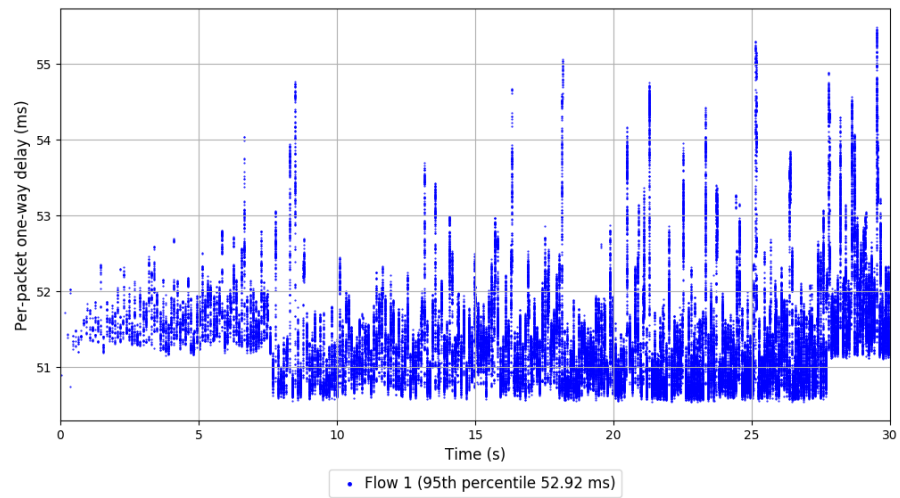
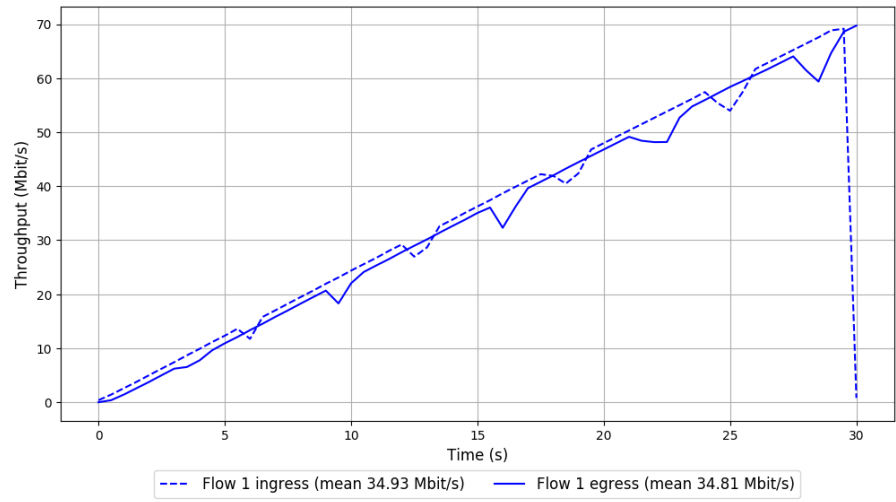


Run 2: Statistics of LEDBAT

Start at: 2018-07-01 23:25:09
End at: 2018-07-01 23:25:39
Local clock offset: 0.424 ms
Remote clock offset: -0.013 ms

Below is generated by plot.py at 2018-07-02 03:15:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 34.81 Mbit/s
95th percentile per-packet one-way delay: 52.922 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 34.81 Mbit/s
95th percentile per-packet one-way delay: 52.922 ms
Loss rate: 0.67%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-07-01 23:46:11

End at: 2018-07-01 23:46:41

Local clock offset: -0.264 ms

Remote clock offset: 0.091 ms

Below is generated by plot.py at 2018-07-02 03:15:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.95 Mbit/s

95th percentile per-packet one-way delay: 52.599 ms

Loss rate: 0.67%

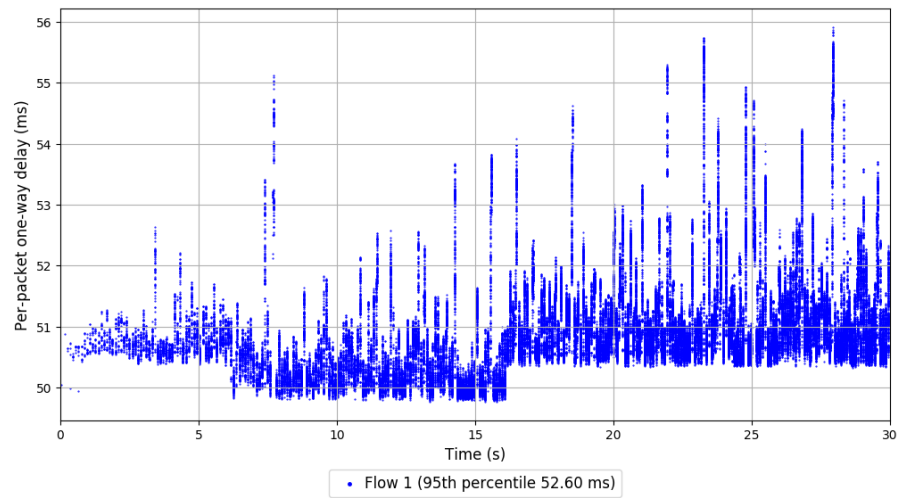
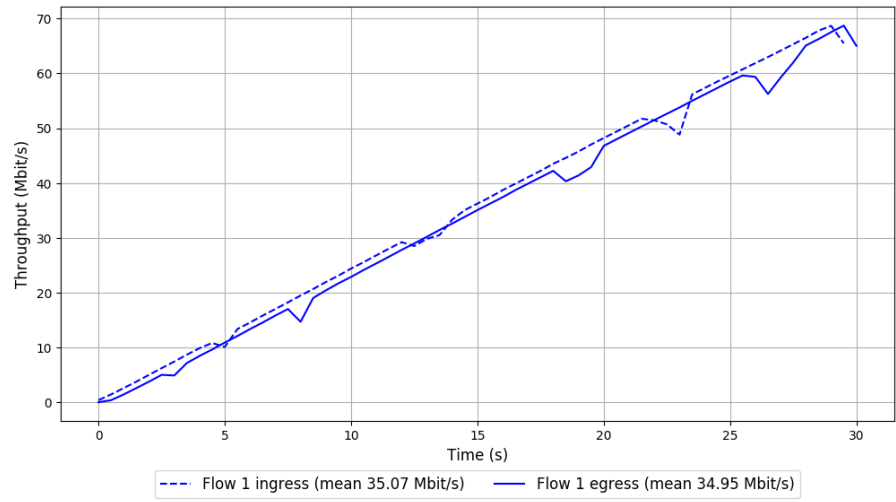
-- Flow 1:

Average throughput: 34.95 Mbit/s

95th percentile per-packet one-way delay: 52.599 ms

Loss rate: 0.67%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-07-02 00:07:21

End at: 2018-07-02 00:07:52

Local clock offset: 0.064 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2018-07-02 03:15:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.16 Mbit/s

95th percentile per-packet one-way delay: 53.164 ms

Loss rate: 0.68%

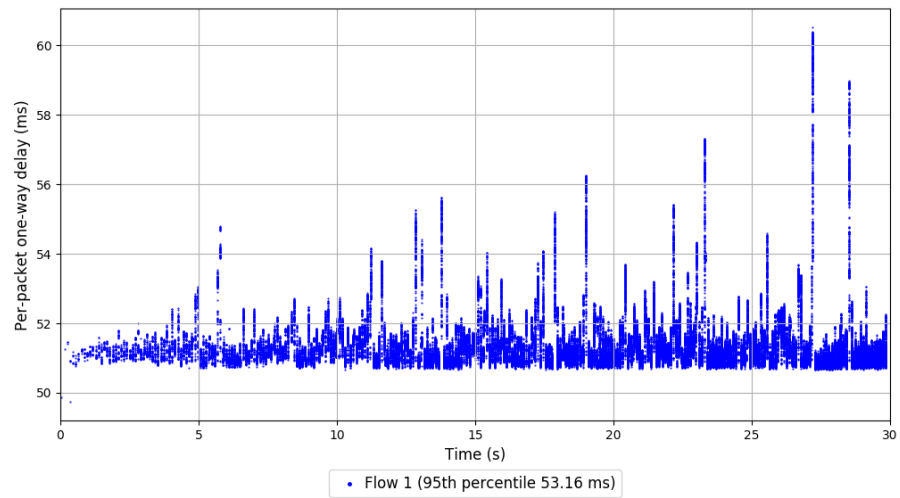
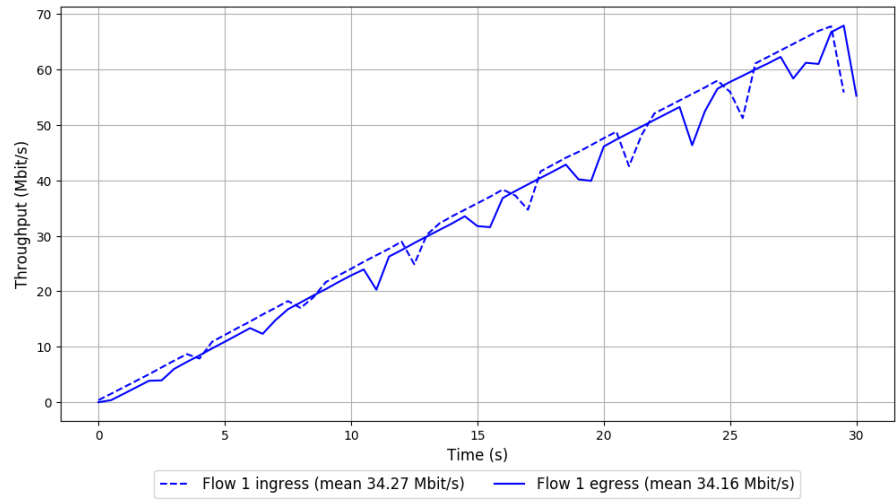
-- Flow 1:

Average throughput: 34.16 Mbit/s

95th percentile per-packet one-way delay: 53.164 ms

Loss rate: 0.68%

Run 4: Report of LEDBAT — Data Link

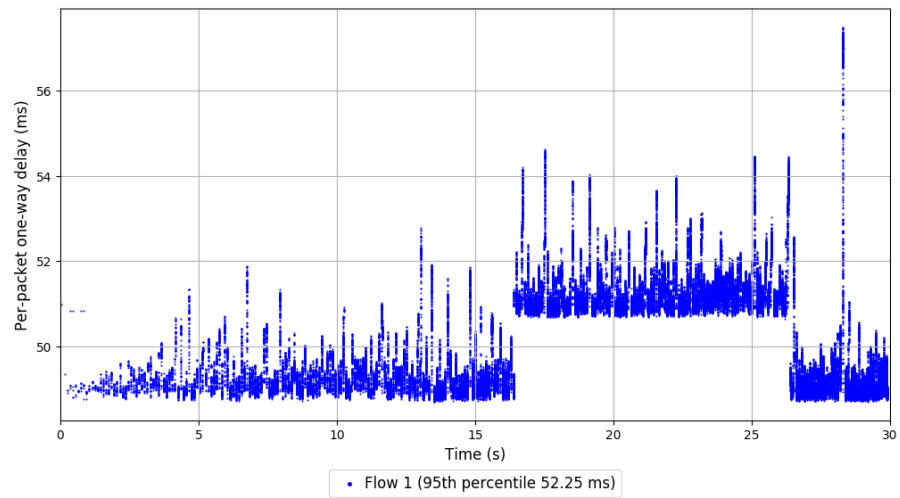
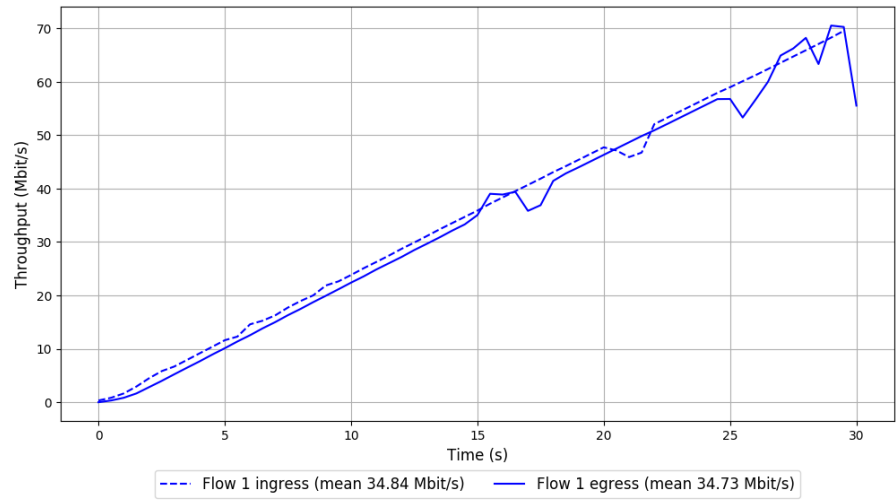


Run 5: Statistics of LEDBAT

Start at: 2018-07-02 00:28:21
End at: 2018-07-02 00:28:51
Local clock offset: 0.077 ms
Remote clock offset: -0.108 ms

Below is generated by plot.py at 2018-07-02 03:15:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 34.73 Mbit/s
95th percentile per-packet one-way delay: 52.250 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 34.73 Mbit/s
95th percentile per-packet one-way delay: 52.250 ms
Loss rate: 0.67%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-07-02 00:49:01

End at: 2018-07-02 00:49:31

Local clock offset: 0.095 ms

Remote clock offset: 0.089 ms

Below is generated by plot.py at 2018-07-02 03:15:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.36 Mbit/s

95th percentile per-packet one-way delay: 52.886 ms

Loss rate: 0.68%

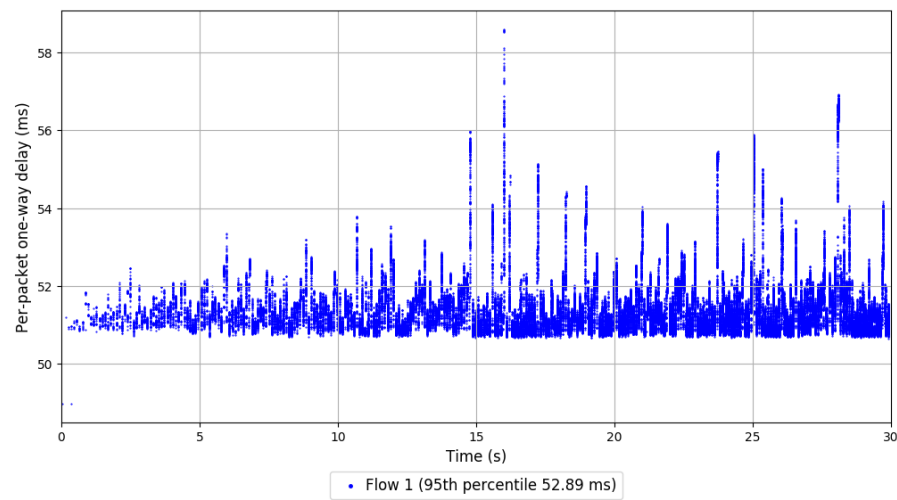
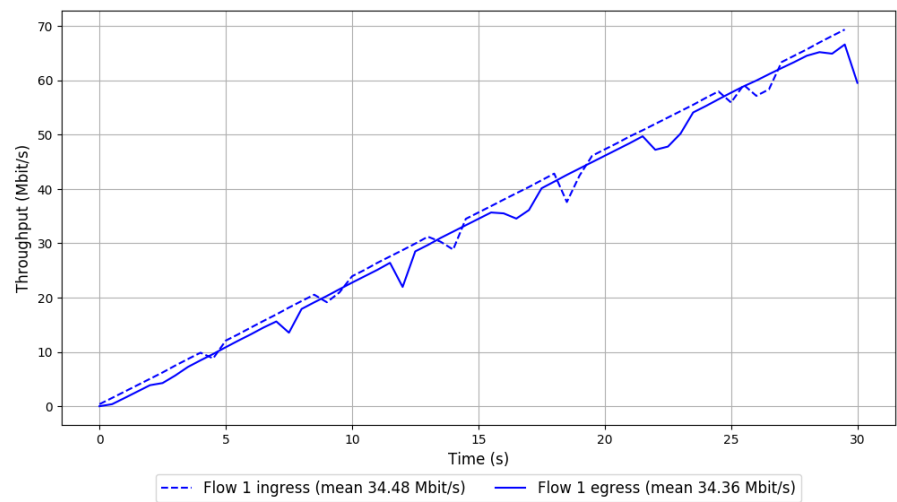
-- Flow 1:

Average throughput: 34.36 Mbit/s

95th percentile per-packet one-way delay: 52.886 ms

Loss rate: 0.68%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-07-02 01:10:01

End at: 2018-07-02 01:10:31

Local clock offset: 0.104 ms

Remote clock offset: 0.197 ms

Below is generated by plot.py at 2018-07-02 03:15:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.24 Mbit/s

95th percentile per-packet one-way delay: 52.166 ms

Loss rate: 0.67%

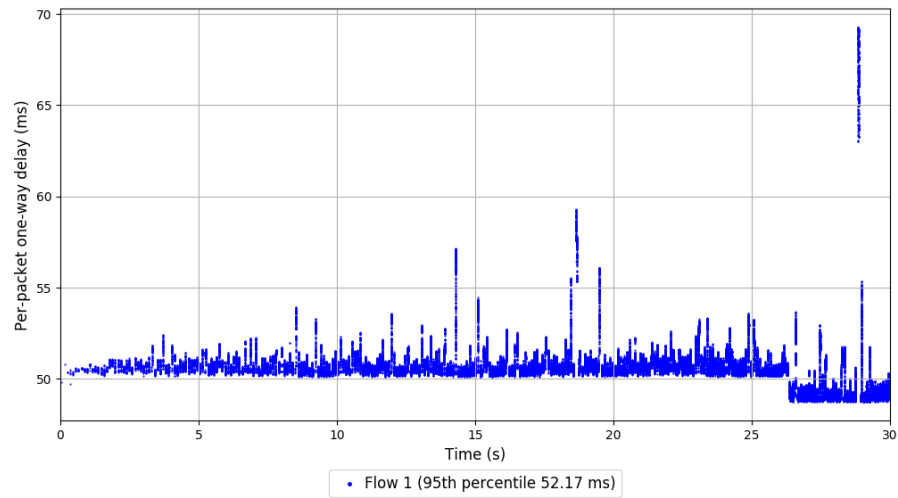
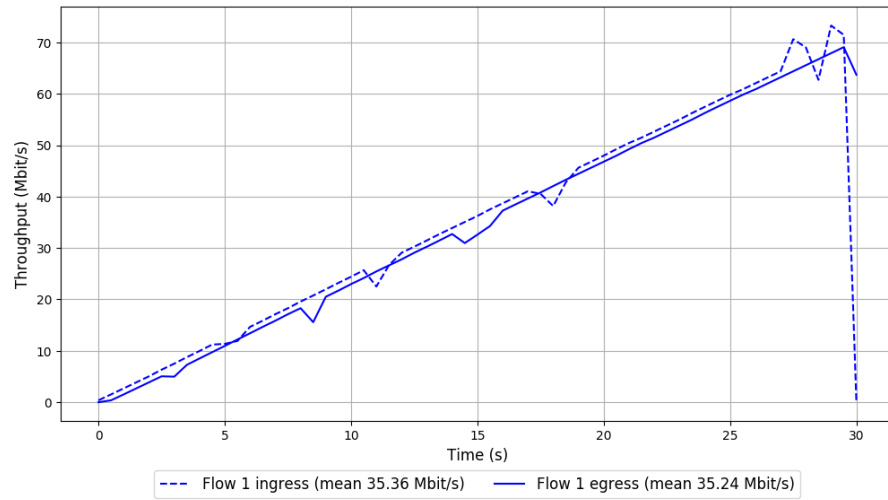
-- Flow 1:

Average throughput: 35.24 Mbit/s

95th percentile per-packet one-way delay: 52.166 ms

Loss rate: 0.67%

Run 7: Report of LEDBAT — Data Link

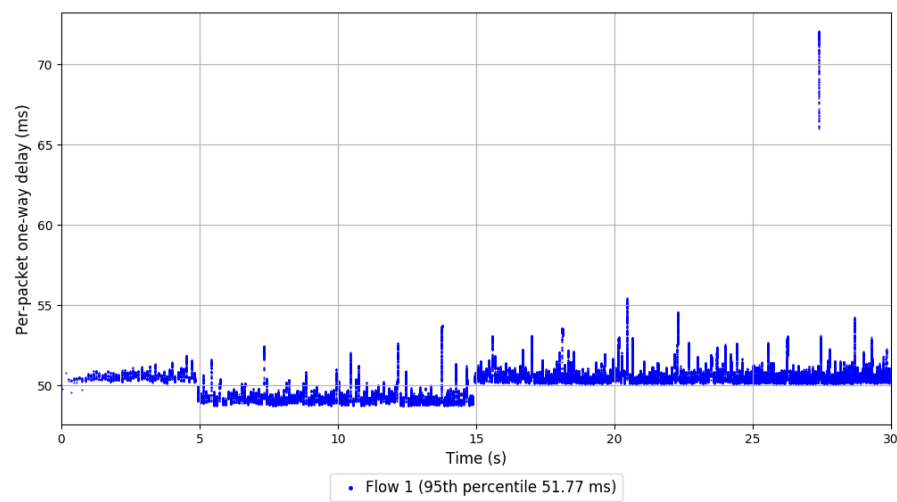
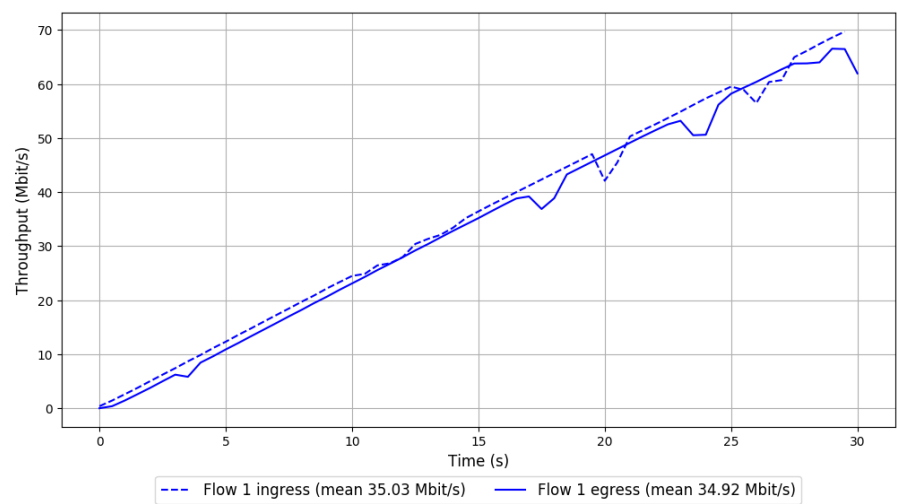


Run 8: Statistics of LEDBAT

Start at: 2018-07-02 01:31:02
End at: 2018-07-02 01:31:32
Local clock offset: 0.087 ms
Remote clock offset: -0.004 ms

Below is generated by plot.py at 2018-07-02 03:15:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 34.92 Mbit/s
95th percentile per-packet one-way delay: 51.765 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 34.92 Mbit/s
95th percentile per-packet one-way delay: 51.765 ms
Loss rate: 0.67%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-07-02 01:52:19

End at: 2018-07-02 01:52:49

Local clock offset: 0.115 ms

Remote clock offset: 0.011 ms

Below is generated by plot.py at 2018-07-02 03:15:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.11 Mbit/s

95th percentile per-packet one-way delay: 52.096 ms

Loss rate: 0.66%

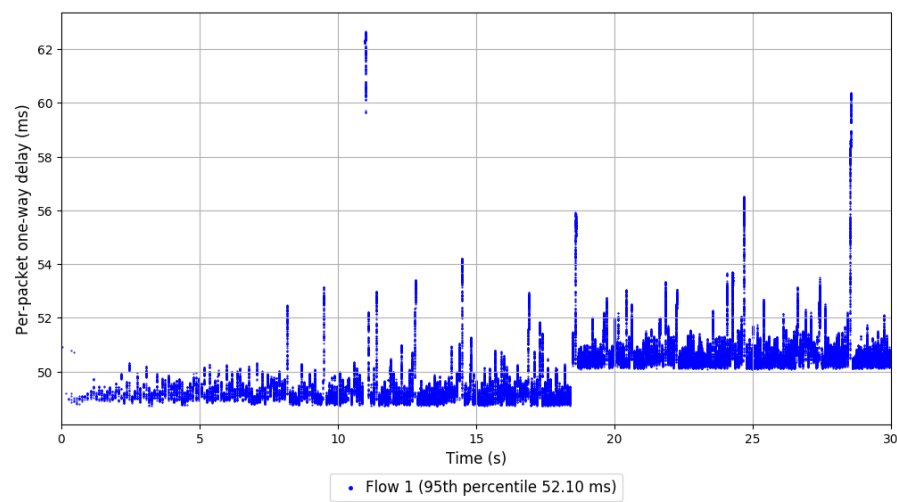
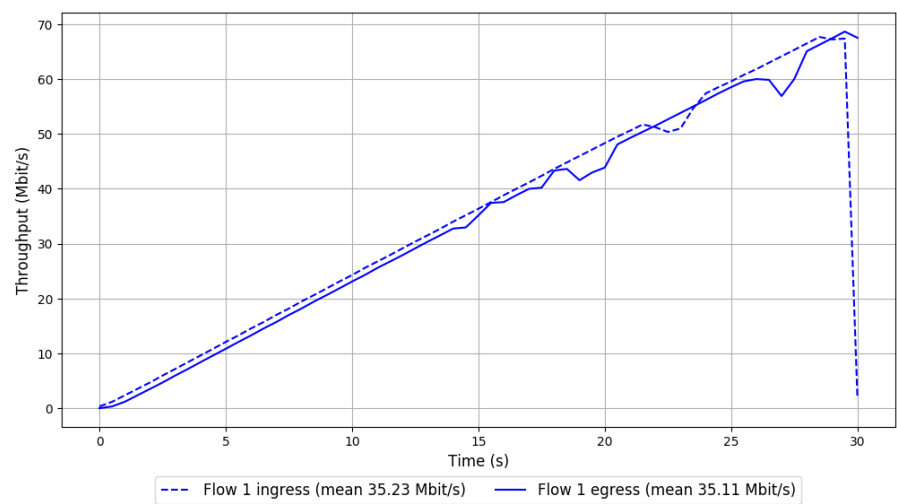
-- Flow 1:

Average throughput: 35.11 Mbit/s

95th percentile per-packet one-way delay: 52.096 ms

Loss rate: 0.66%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-07-02 02:13:19

End at: 2018-07-02 02:13:49

Local clock offset: 0.124 ms

Remote clock offset: 0.038 ms

Below is generated by plot.py at 2018-07-02 03:15:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.90 Mbit/s

95th percentile per-packet one-way delay: 52.950 ms

Loss rate: 0.67%

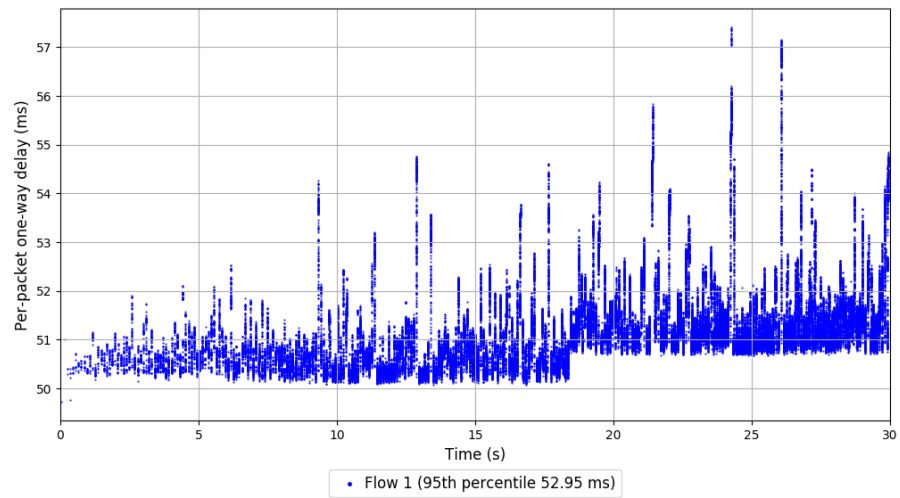
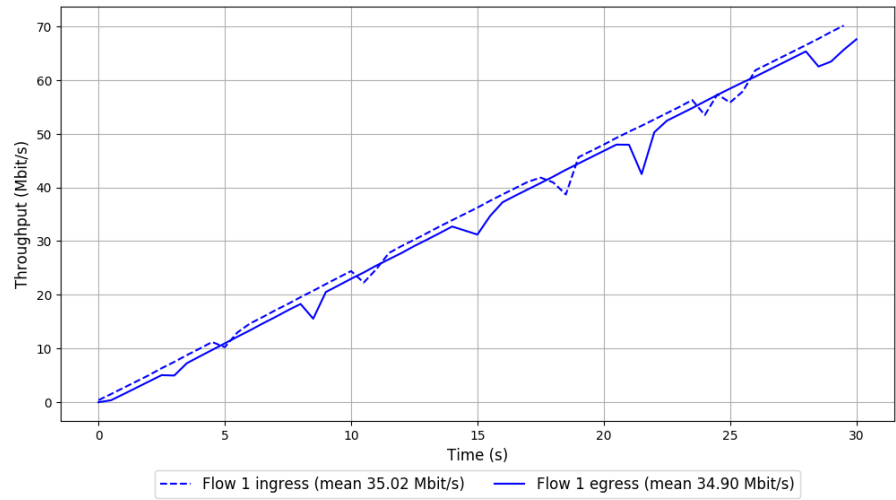
-- Flow 1:

Average throughput: 34.90 Mbit/s

95th percentile per-packet one-way delay: 52.950 ms

Loss rate: 0.67%

Run 10: Report of LEDBAT — Data Link

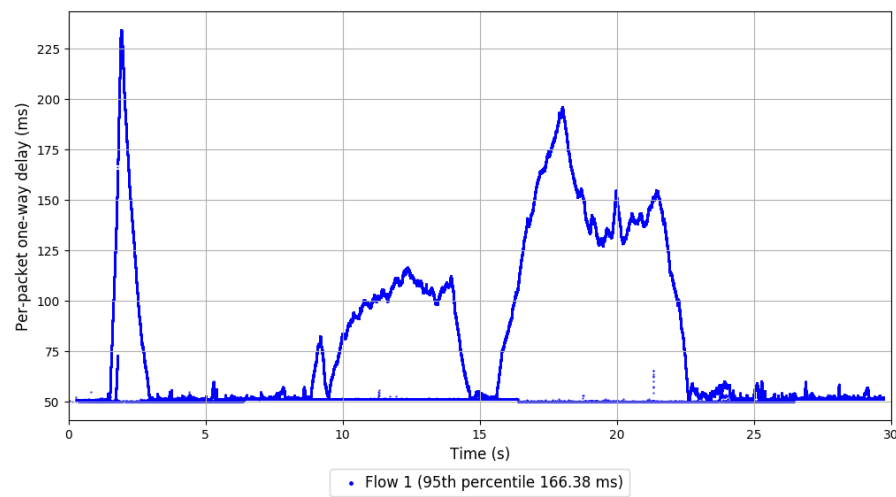
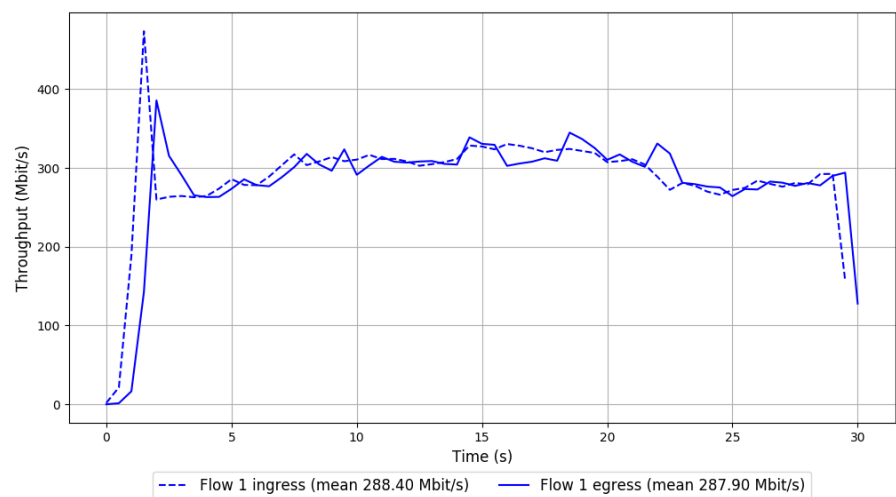


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-07-01 23:17:30
End at: 2018-07-01 23:18:00
Local clock offset: 0.403 ms
Remote clock offset: 0.029 ms

# Below is generated by plot.py at 2018-07-02 03:15:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 287.90 Mbit/s
95th percentile per-packet one-way delay: 166.375 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 287.90 Mbit/s
95th percentile per-packet one-way delay: 166.375 ms
Loss rate: 0.51%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-07-01 23:38:26

End at: 2018-07-01 23:38:56

Local clock offset: 0.101 ms

Remote clock offset: 0.084 ms

Below is generated by plot.py at 2018-07-02 03:15:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 304.00 Mbit/s

95th percentile per-packet one-way delay: 78.366 ms

Loss rate: 0.38%

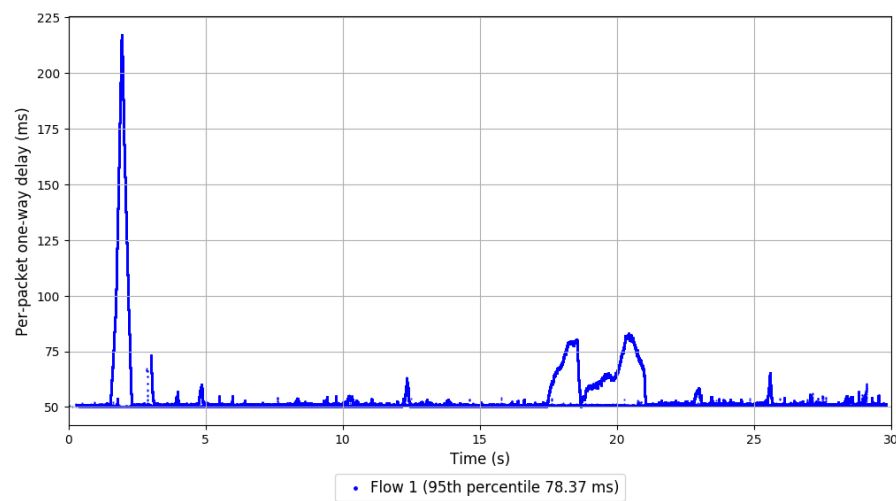
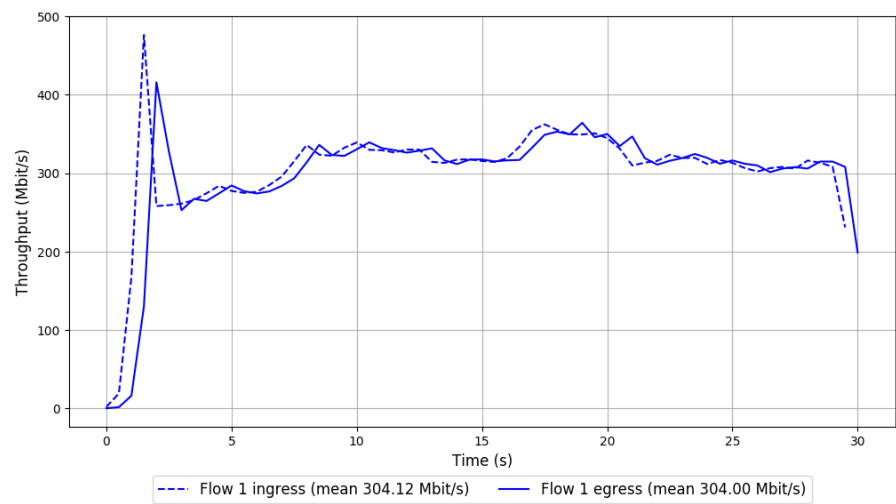
-- Flow 1:

Average throughput: 304.00 Mbit/s

95th percentile per-packet one-way delay: 78.366 ms

Loss rate: 0.38%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-07-01 23:59:32

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

Local clock offset: 0.142 ms

Remote clock offset: 0.103 ms

Below is generated by plot.py at 2018-07-02 03:15:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 279.36 Mbit/s

95th percentile per-packet one-way delay: 96.403 ms

Loss rate: 0.51%

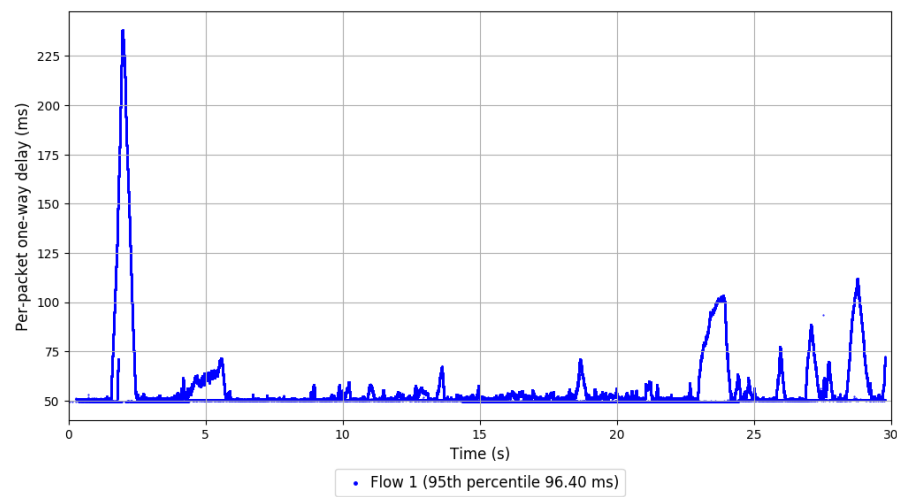
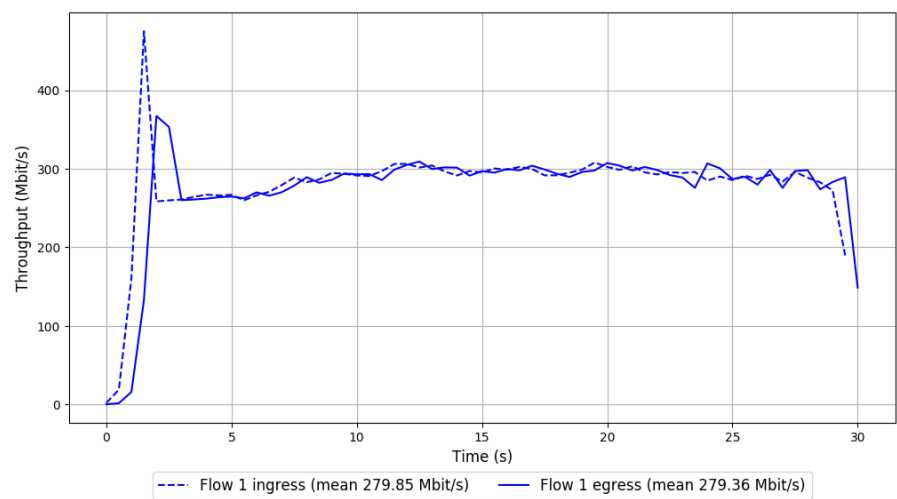
-- Flow 1:

Average throughput: 279.36 Mbit/s

95th percentile per-packet one-way delay: 96.403 ms

Loss rate: 0.51%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-07-02 00:20:36

End at: 2018-07-02 00:21:06

Local clock offset: 0.044 ms

Remote clock offset: -0.102 ms

Below is generated by plot.py at 2018-07-02 03:15:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 324.23 Mbit/s

95th percentile per-packet one-way delay: 58.194 ms

Loss rate: 0.36%

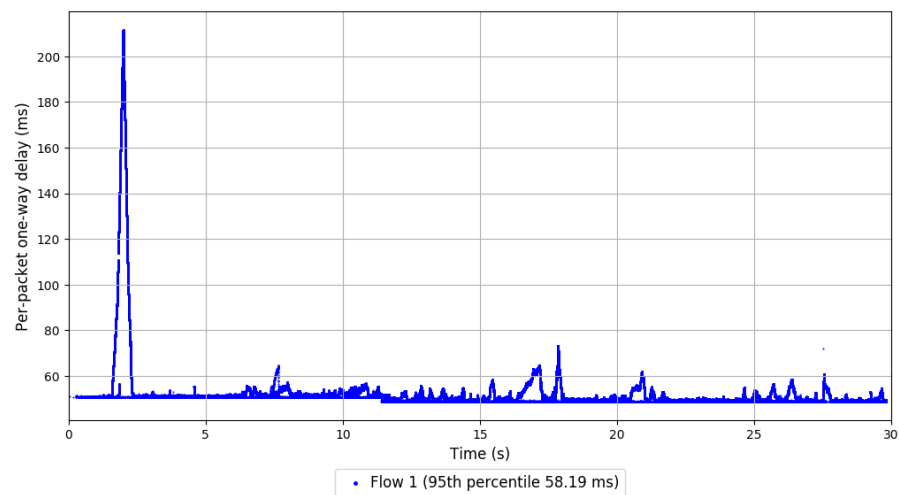
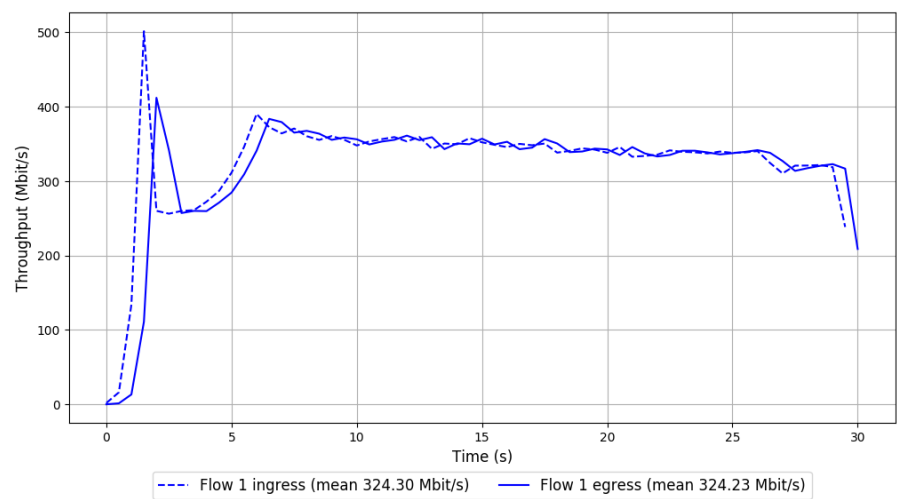
-- Flow 1:

Average throughput: 324.23 Mbit/s

95th percentile per-packet one-way delay: 58.194 ms

Loss rate: 0.36%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-07-02 00:41:30

End at: 2018-07-02 00:42:00

Local clock offset: 0.04 ms

Remote clock offset: -0.075 ms

Below is generated by plot.py at 2018-07-02 03:15:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 289.04 Mbit/s

95th percentile per-packet one-way delay: 64.538 ms

Loss rate: 0.52%

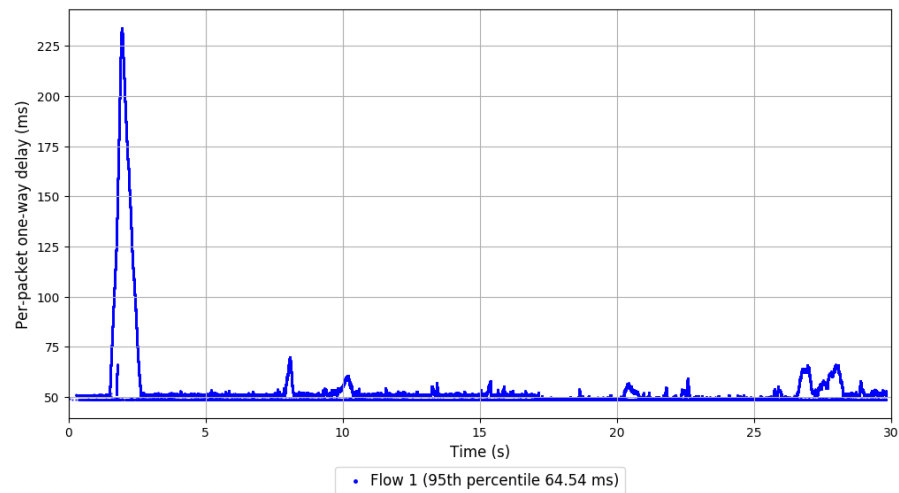
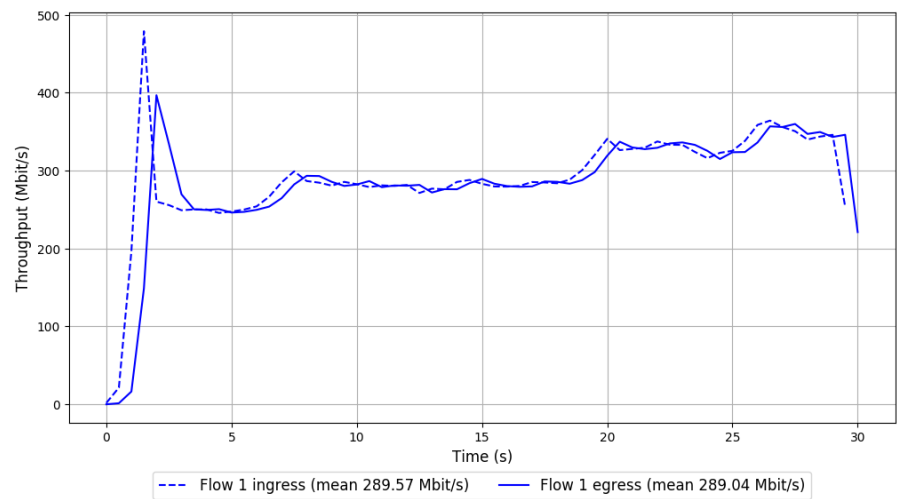
-- Flow 1:

Average throughput: 289.04 Mbit/s

95th percentile per-packet one-way delay: 64.538 ms

Loss rate: 0.52%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-07-02 01:02:20

End at: 2018-07-02 01:02:50

Local clock offset: -0.337 ms

Remote clock offset: 0.168 ms

Below is generated by plot.py at 2018-07-02 03:15:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 294.75 Mbit/s

95th percentile per-packet one-way delay: 91.947 ms

Loss rate: 0.64%

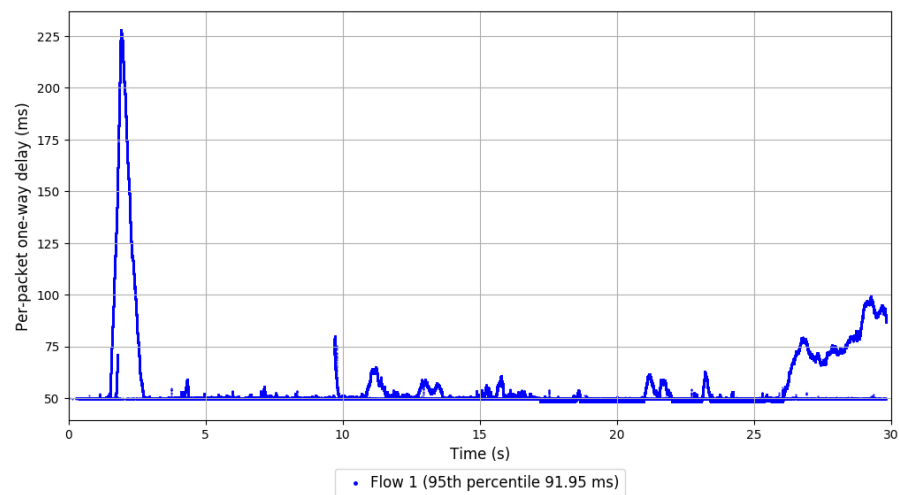
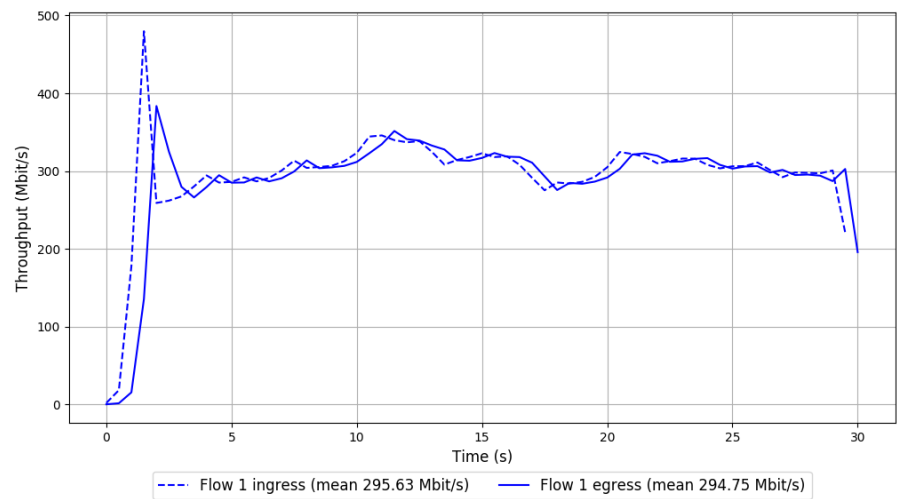
-- Flow 1:

Average throughput: 294.75 Mbit/s

95th percentile per-packet one-way delay: 91.947 ms

Loss rate: 0.64%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-07-02 01:23:18

End at: 2018-07-02 01:23:48

Local clock offset: 0.076 ms

Remote clock offset: 0.036 ms

Below is generated by plot.py at 2018-07-02 03:15:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 303.10 Mbit/s

95th percentile per-packet one-way delay: 93.157 ms

Loss rate: 0.55%

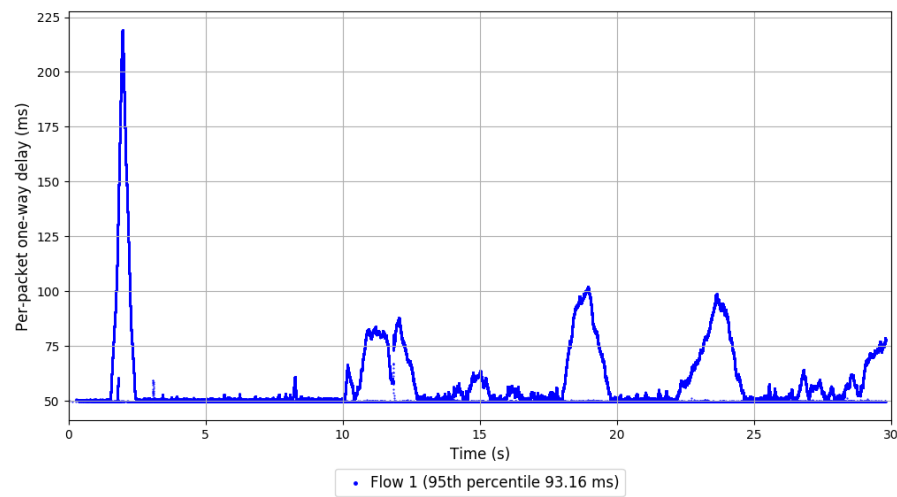
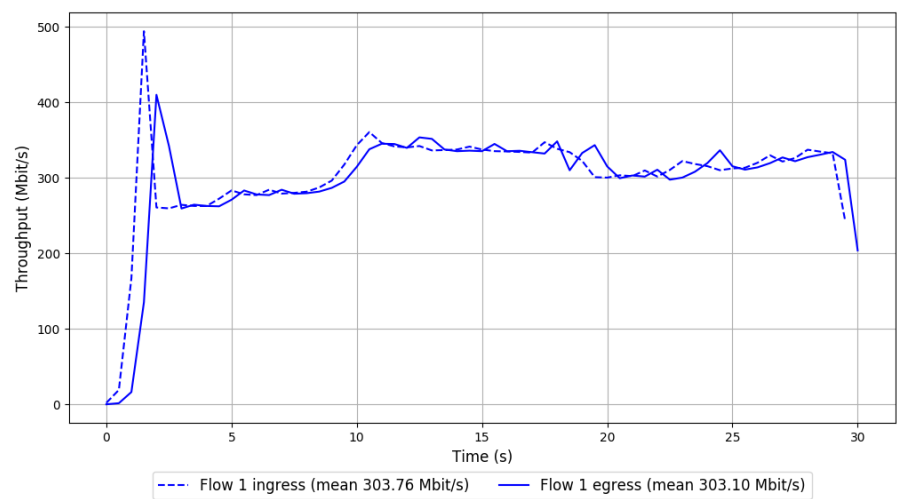
-- Flow 1:

Average throughput: 303.10 Mbit/s

95th percentile per-packet one-way delay: 93.157 ms

Loss rate: 0.55%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-07-02 01:44:32

End at: 2018-07-02 01:45:02

Local clock offset: 0.096 ms

Remote clock offset: -0.014 ms

Below is generated by plot.py at 2018-07-02 03:18:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 310.84 Mbit/s

95th percentile per-packet one-way delay: 101.988 ms

Loss rate: 0.48%

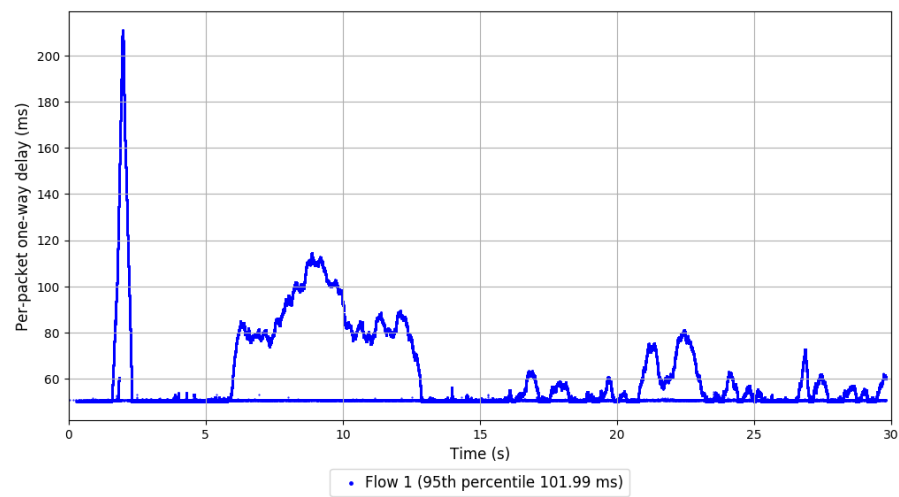
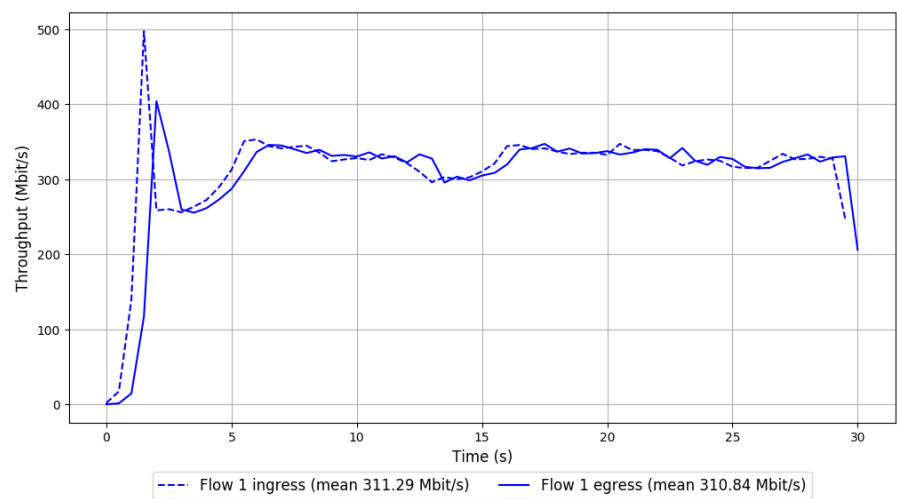
-- Flow 1:

Average throughput: 310.84 Mbit/s

95th percentile per-packet one-way delay: 101.988 ms

Loss rate: 0.48%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-07-02 02:05:37

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

Local clock offset: -0.284 ms

Remote clock offset: 0.006 ms

Below is generated by plot.py at 2018-07-02 03:18:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 301.33 Mbit/s

95th percentile per-packet one-way delay: 142.355 ms

Loss rate: 0.44%

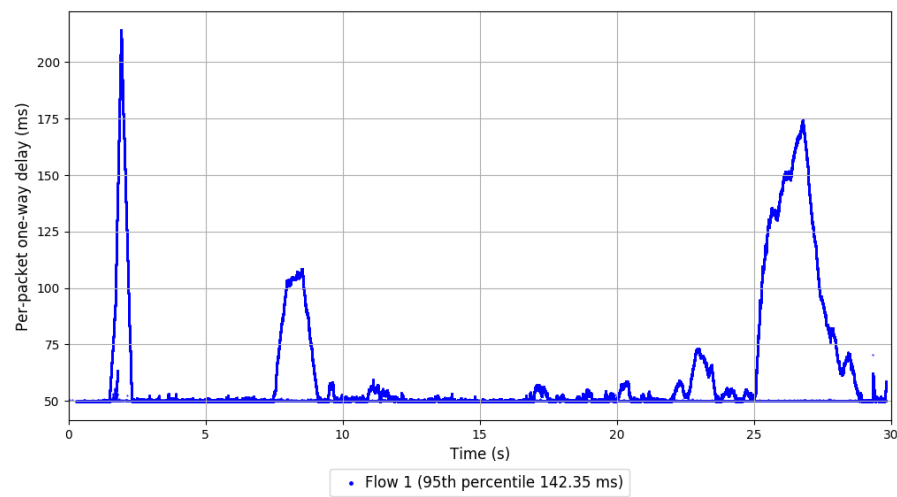
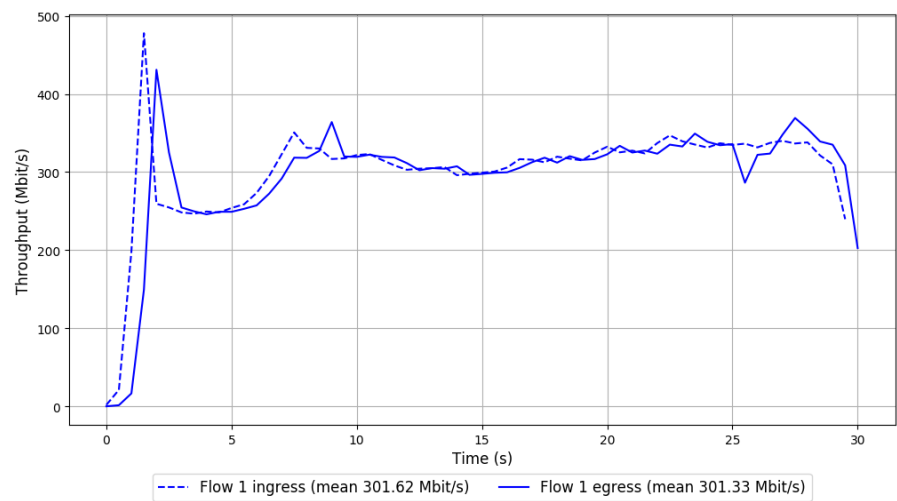
-- Flow 1:

Average throughput: 301.33 Mbit/s

95th percentile per-packet one-way delay: 142.355 ms

Loss rate: 0.44%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-07-02 02:26:30

End at: 2018-07-02 02:27:00

Local clock offset: 0.096 ms

Remote clock offset: -0.042 ms

Below is generated by plot.py at 2018-07-02 03:18:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 285.61 Mbit/s

95th percentile per-packet one-way delay: 129.840 ms

Loss rate: 0.59%

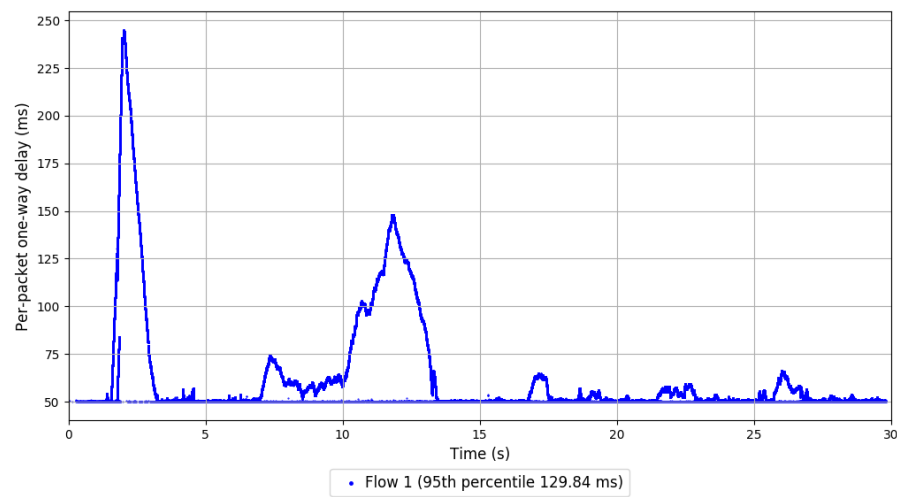
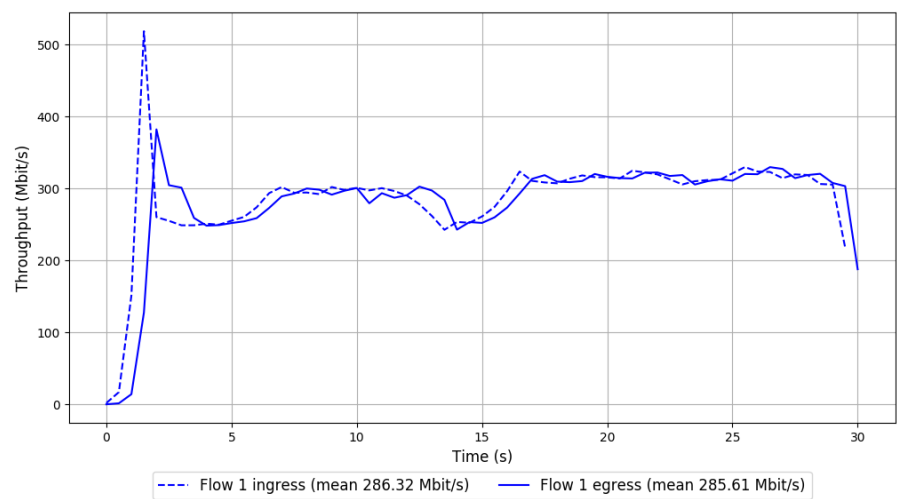
-- Flow 1:

Average throughput: 285.61 Mbit/s

95th percentile per-packet one-way delay: 129.840 ms

Loss rate: 0.59%

Run 10: Report of PCC-Allegro — Data Link

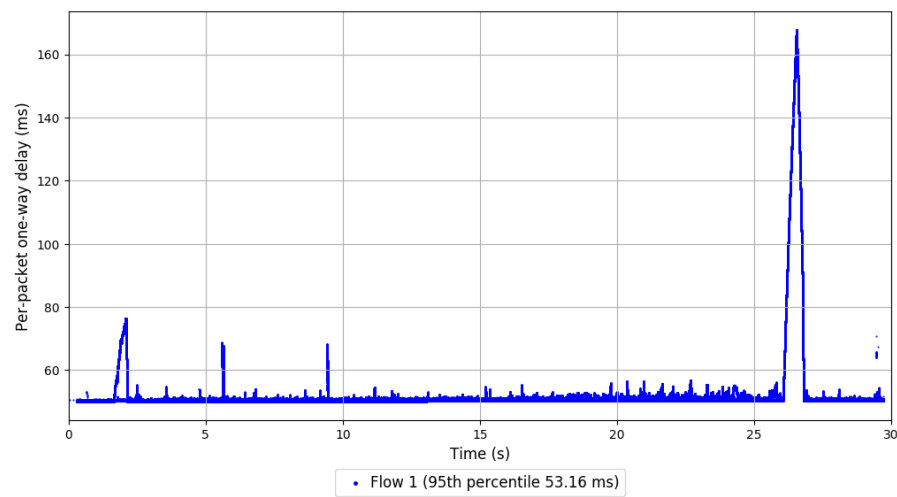
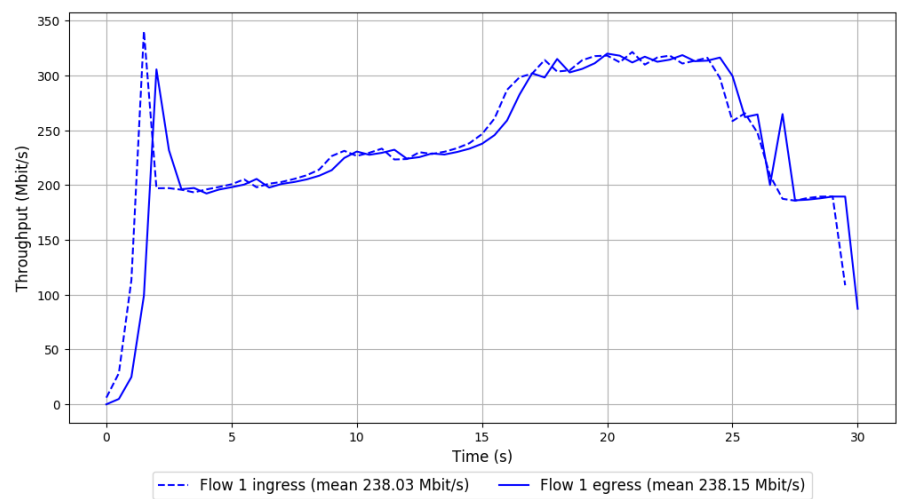


```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-01 23:11:24
End at: 2018-07-01 23:11:54
Local clock offset: -0.005 ms
Remote clock offset: 0.058 ms

# Below is generated by plot.py at 2018-07-02 03:21:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 238.15 Mbit/s
95th percentile per-packet one-way delay: 53.159 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 238.15 Mbit/s
95th percentile per-packet one-way delay: 53.159 ms
Loss rate: 0.29%
```

Run 1: Report of PCC-Expr — Data Link

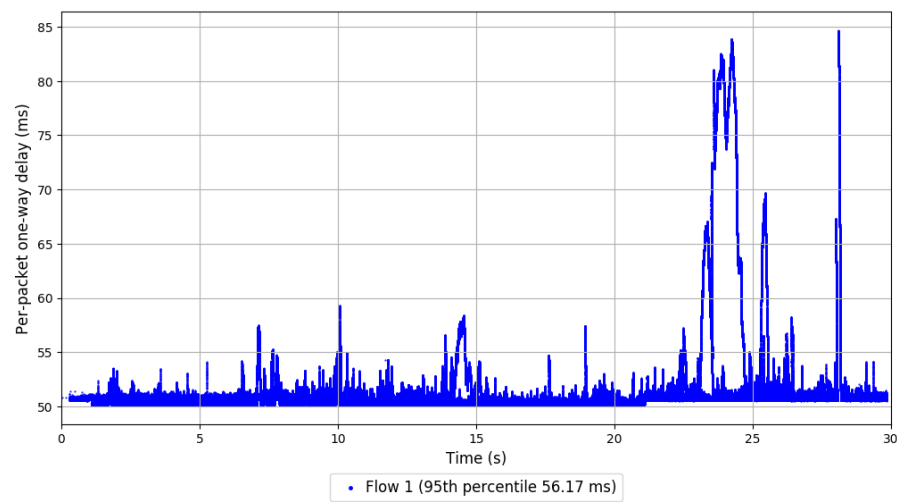
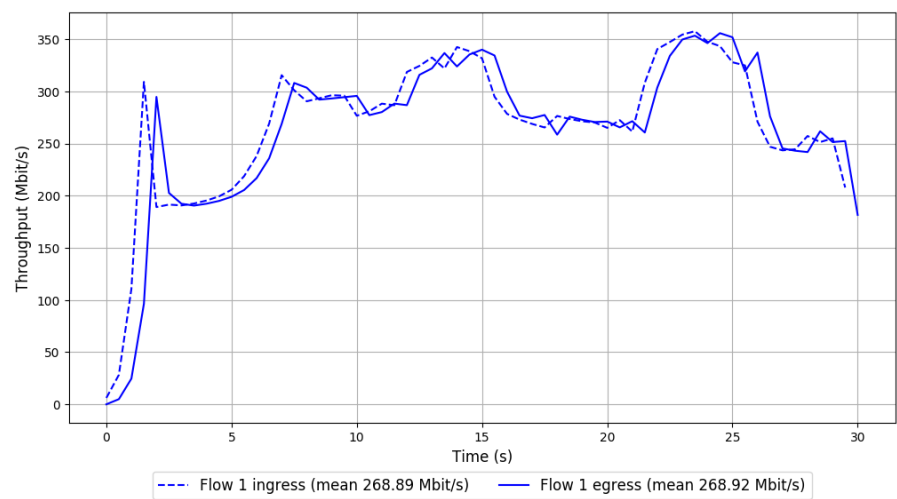


```
Run 2: Statistics of PCC-Expr

Start at: 2018-07-01 23:32:06
End at: 2018-07-01 23:32:36
Local clock offset: 0.069 ms
Remote clock offset: 0.063 ms

# Below is generated by plot.py at 2018-07-02 03:22:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 268.92 Mbit/s
95th percentile per-packet one-way delay: 56.174 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 268.92 Mbit/s
95th percentile per-packet one-way delay: 56.174 ms
Loss rate: 0.33%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-07-01 23:53:13

End at: 2018-07-01 23:53:43

Local clock offset: 0.118 ms

Remote clock offset: 0.102 ms

Below is generated by plot.py at 2018-07-02 03:22:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.02 Mbit/s

95th percentile per-packet one-way delay: 51.741 ms

Loss rate: 0.38%

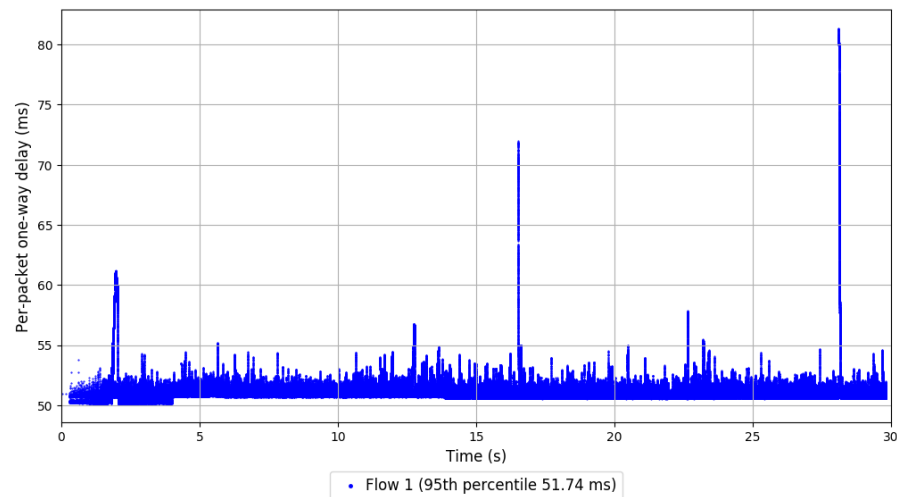
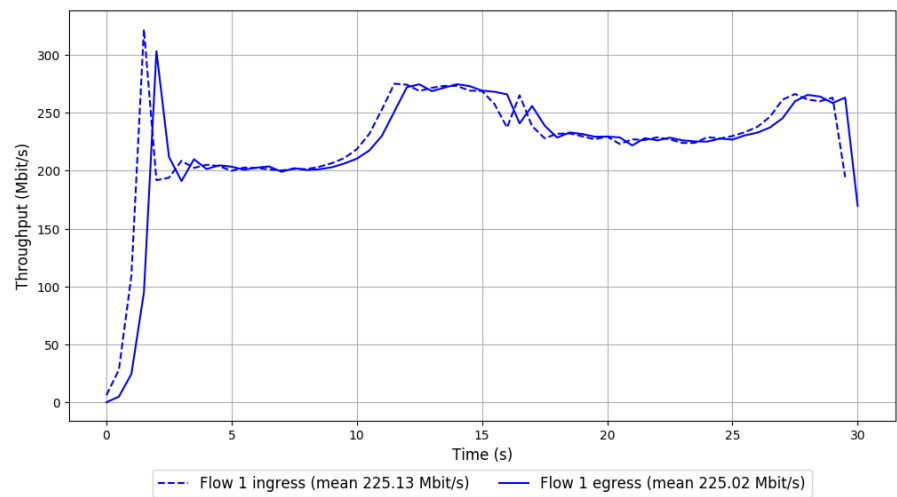
-- Flow 1:

Average throughput: 225.02 Mbit/s

95th percentile per-packet one-way delay: 51.741 ms

Loss rate: 0.38%

Run 3: Report of PCC-Expr — Data Link

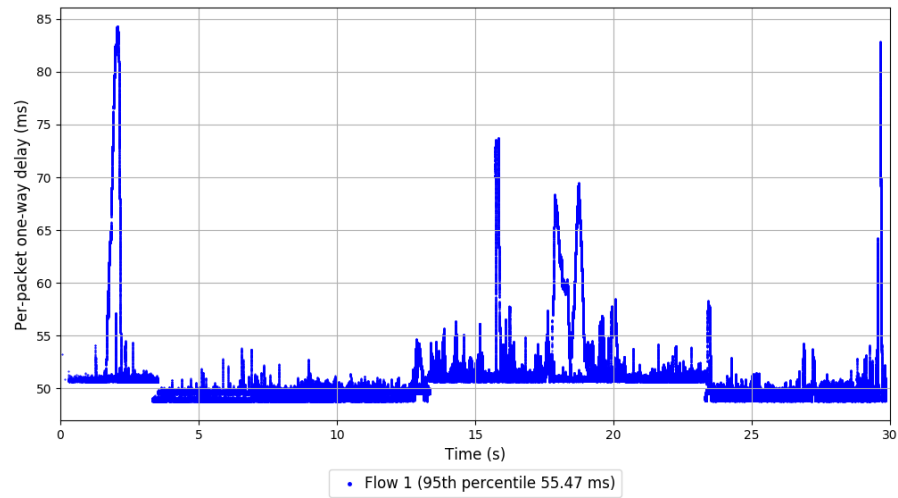
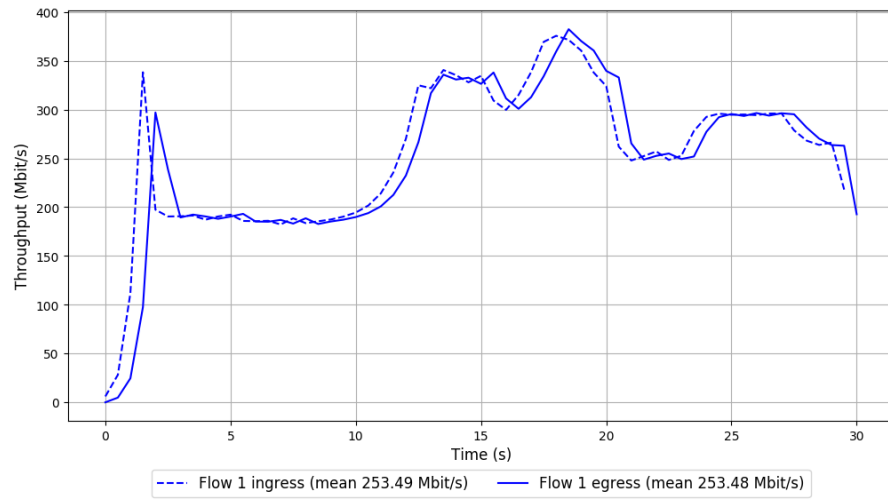


Run 4: Statistics of PCC-Expr

Start at: 2018-07-02 00:14:14
End at: 2018-07-02 00:14:44
Local clock offset: 0.102 ms
Remote clock offset: -0.015 ms

Below is generated by plot.py at 2018-07-02 03:22:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 253.48 Mbit/s
95th percentile per-packet one-way delay: 55.473 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 253.48 Mbit/s
95th percentile per-packet one-way delay: 55.473 ms
Loss rate: 0.35%

Run 4: Report of PCC-Expr — Data Link

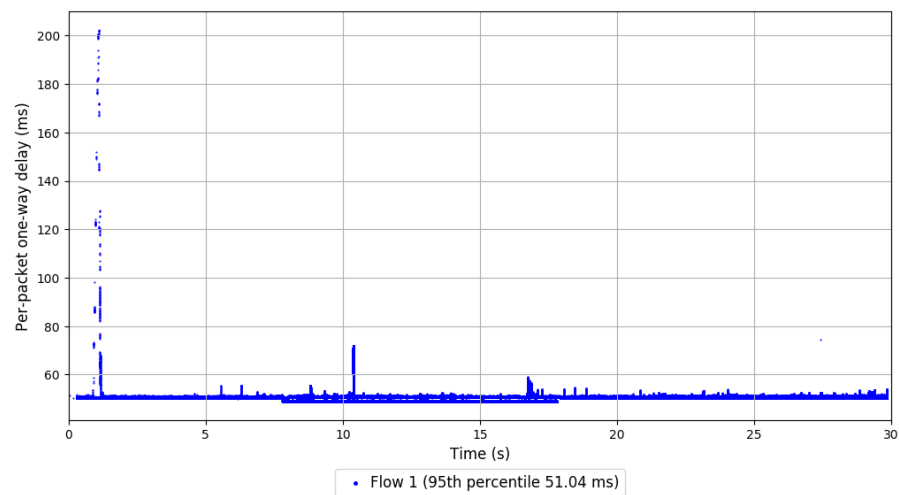
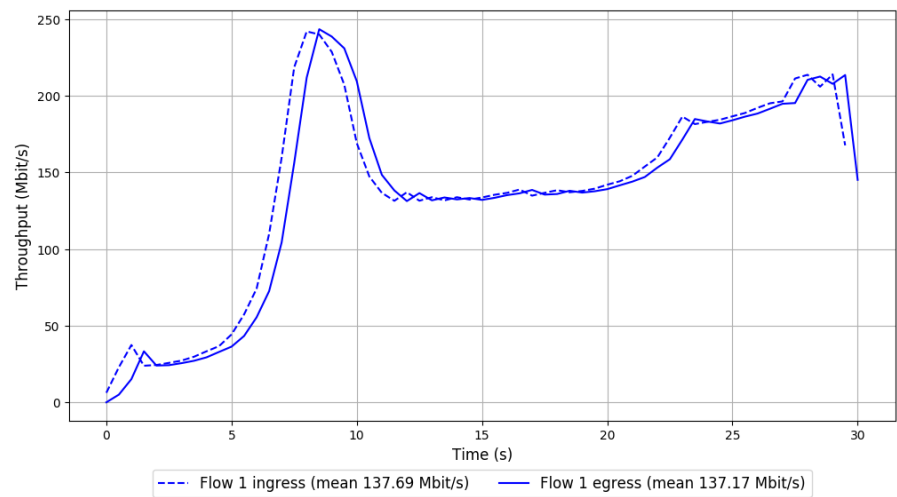


Run 5: Statistics of PCC-Expr

Start at: 2018-07-02 00:35:19
End at: 2018-07-02 00:35:49
Local clock offset: 0.104 ms
Remote clock offset: -0.165 ms

Below is generated by plot.py at 2018-07-02 03:22:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 137.17 Mbit/s
95th percentile per-packet one-way delay: 51.044 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 137.17 Mbit/s
95th percentile per-packet one-way delay: 51.044 ms
Loss rate: 0.72%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-07-02 00:55:57

End at: 2018-07-02 00:56:27

Local clock offset: 0.096 ms

Remote clock offset: 0.1 ms

Below is generated by plot.py at 2018-07-02 03:32:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 391.89 Mbit/s

95th percentile per-packet one-way delay: 234.898 ms

Loss rate: 4.90%

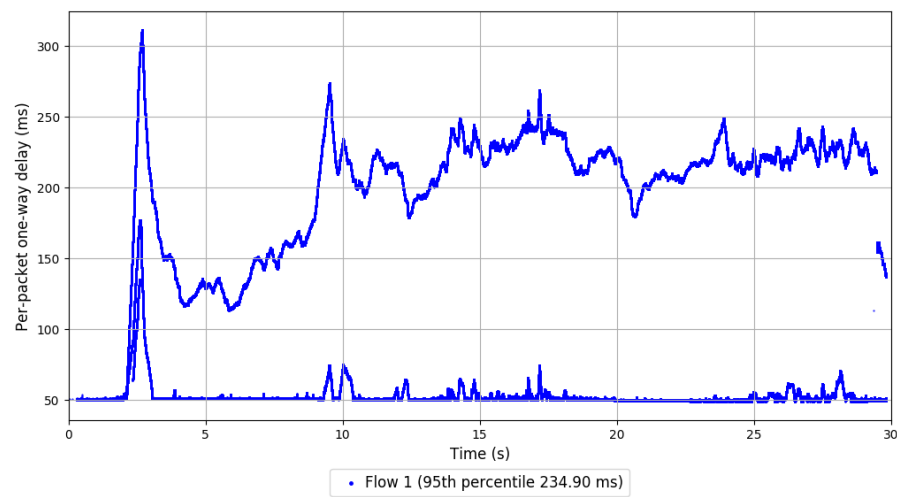
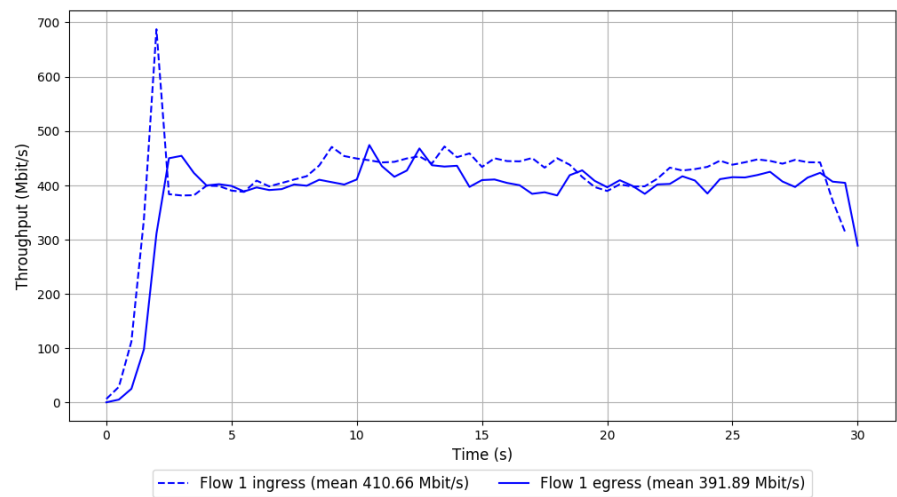
-- Flow 1:

Average throughput: 391.89 Mbit/s

95th percentile per-packet one-way delay: 234.898 ms

Loss rate: 4.90%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-07-02 01:17:01

End at: 2018-07-02 01:17:31

Local clock offset: 0.094 ms

Remote clock offset: 0.1 ms

Below is generated by plot.py at 2018-07-02 03:32:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.40 Mbit/s

95th percentile per-packet one-way delay: 50.562 ms

Loss rate: 0.37%

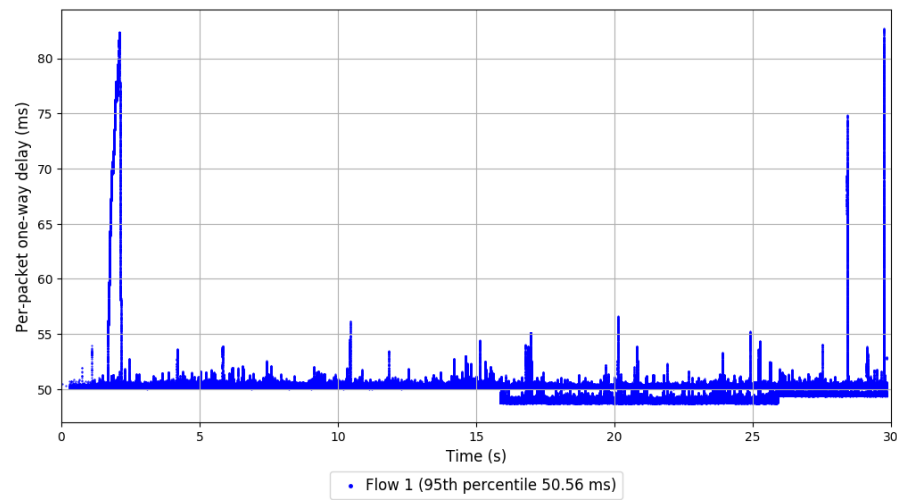
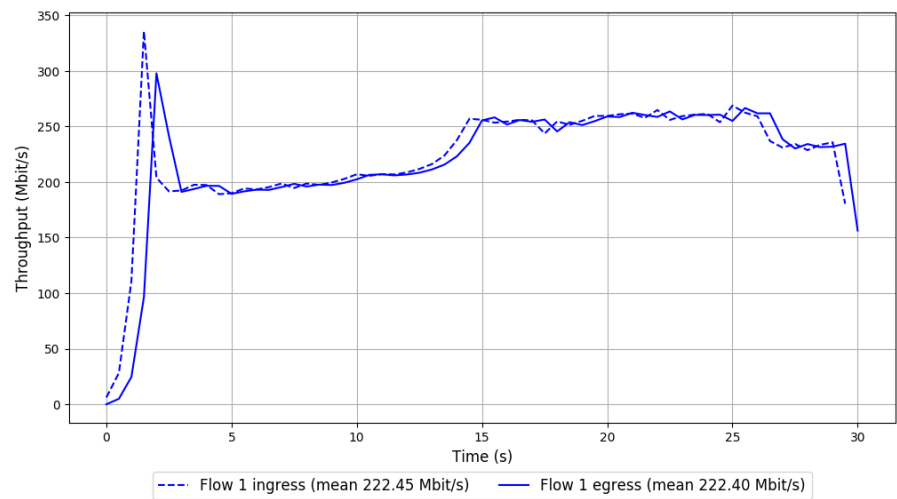
-- Flow 1:

Average throughput: 222.40 Mbit/s

95th percentile per-packet one-way delay: 50.562 ms

Loss rate: 0.37%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-07-02 01:38:02

End at: 2018-07-02 01:38:32

Local clock offset: -0.301 ms

Remote clock offset: 0.011 ms

Below is generated by plot.py at 2018-07-02 03:32:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 358.77 Mbit/s

95th percentile per-packet one-way delay: 305.068 ms

Loss rate: 11.34%

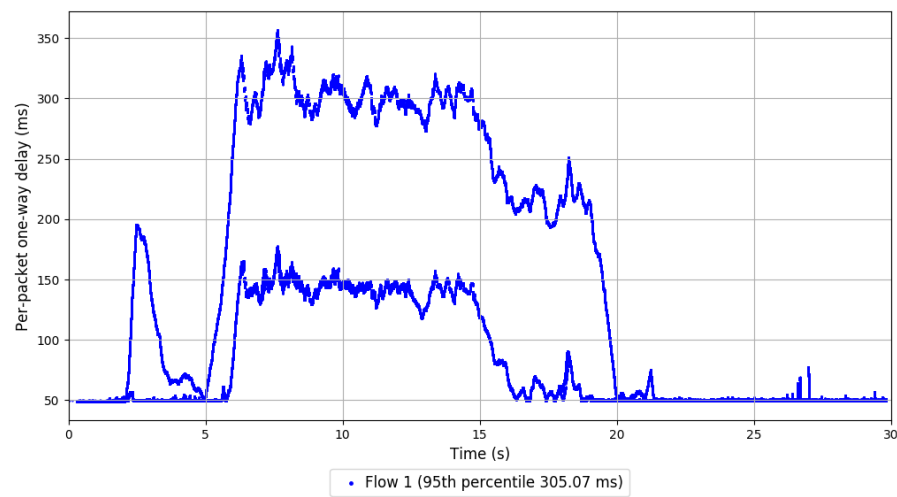
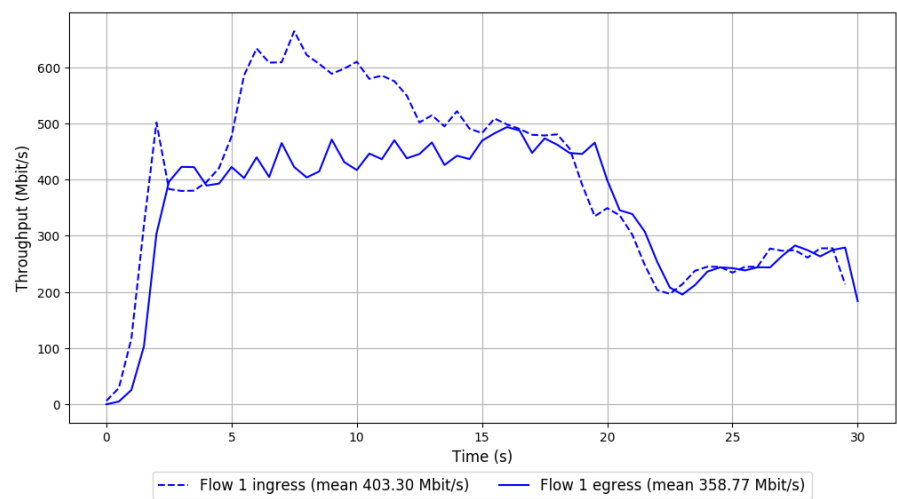
-- Flow 1:

Average throughput: 358.77 Mbit/s

95th percentile per-packet one-way delay: 305.068 ms

Loss rate: 11.34%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-07-02 01:59:19

End at: 2018-07-02 01:59:49

Local clock offset: 0.091 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2018-07-02 03:32:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.88 Mbit/s

95th percentile per-packet one-way delay: 51.091 ms

Loss rate: 0.42%

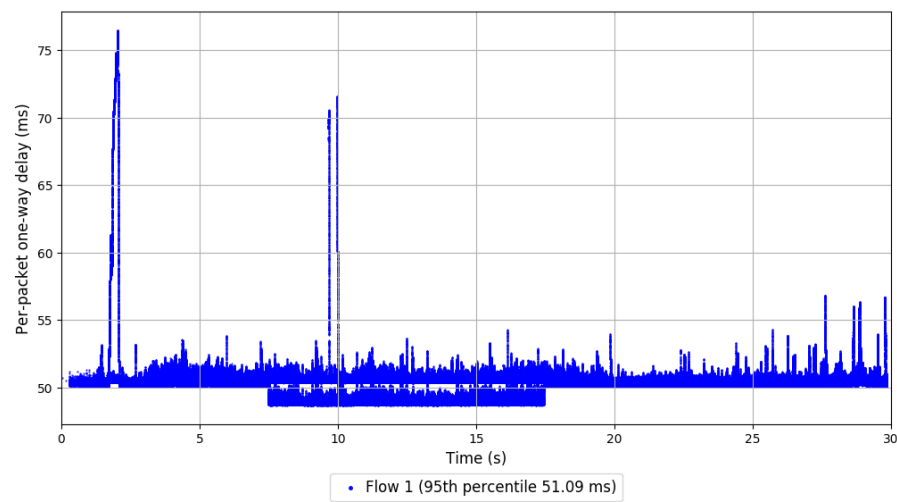
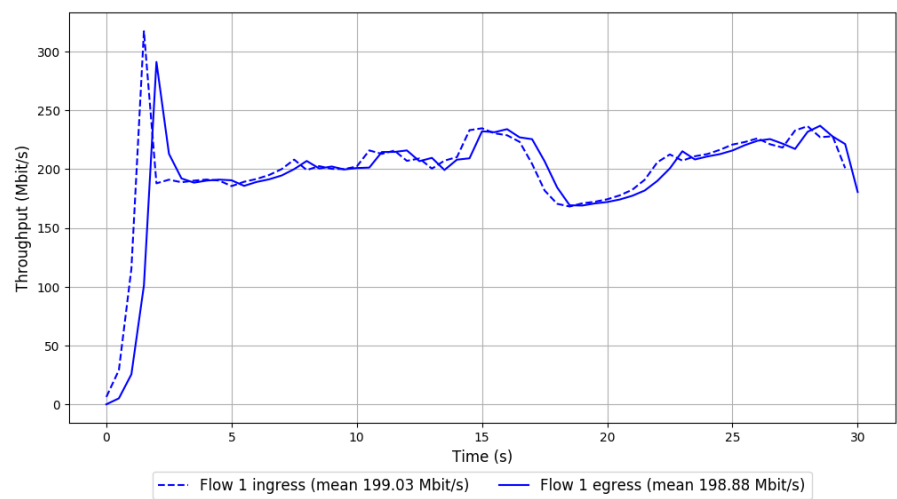
-- Flow 1:

Average throughput: 198.88 Mbit/s

95th percentile per-packet one-way delay: 51.091 ms

Loss rate: 0.42%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-07-02 02:20:16

End at: 2018-07-02 02:20:46

Local clock offset: 0.131 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2018-07-02 03:32:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 255.86 Mbit/s

95th percentile per-packet one-way delay: 244.433 ms

Loss rate: 2.68%

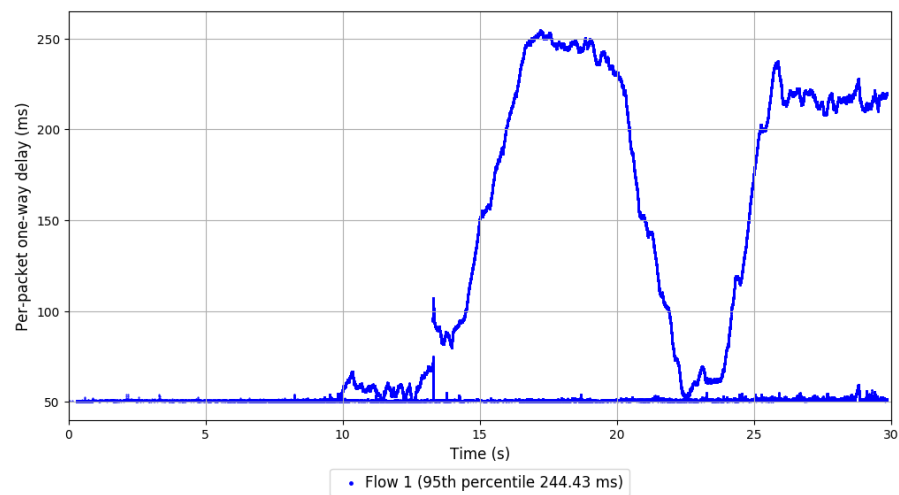
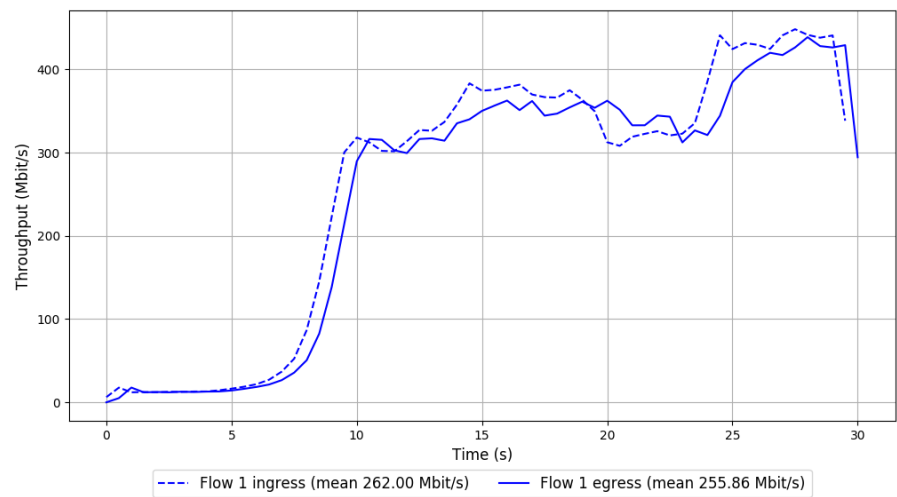
-- Flow 1:

Average throughput: 255.86 Mbit/s

95th percentile per-packet one-way delay: 244.433 ms

Loss rate: 2.68%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

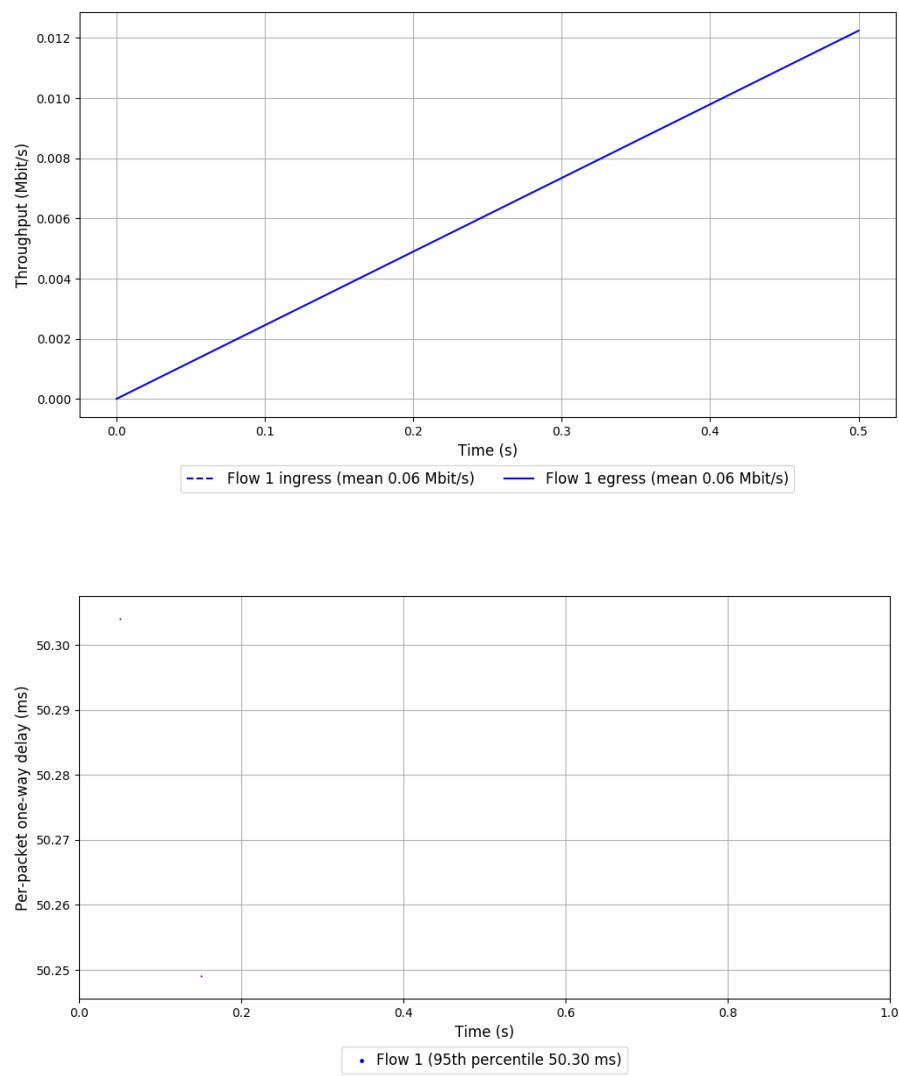
Start at: 2018-07-01 23:16:25

End at: 2018-07-01 23:16:55

Local clock offset: -0.013 ms

Remote clock offset: 0.002 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-07-01 23:37:17

End at: 2018-07-01 23:37:47

Local clock offset: 0.036 ms

Remote clock offset: 0.076 ms

Below is generated by plot.py at 2018-07-02 03:32:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.64 Mbit/s

95th percentile per-packet one-way delay: 50.640 ms

Loss rate: 0.39%

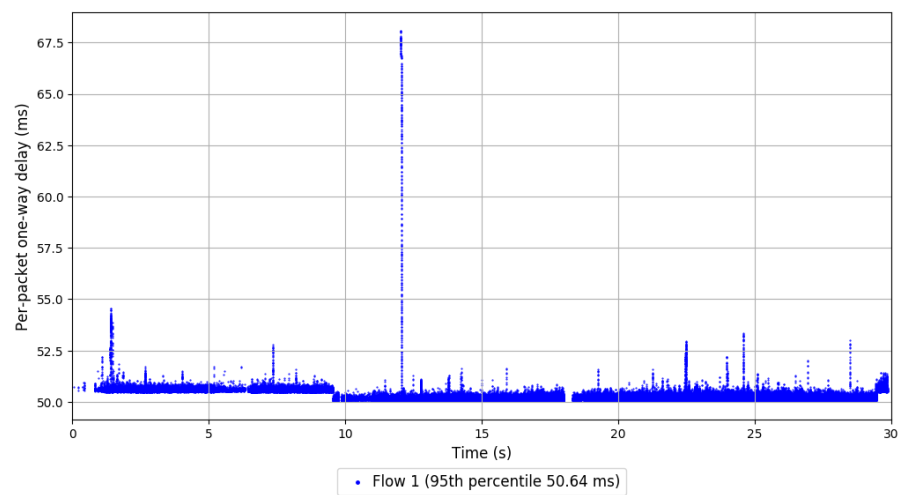
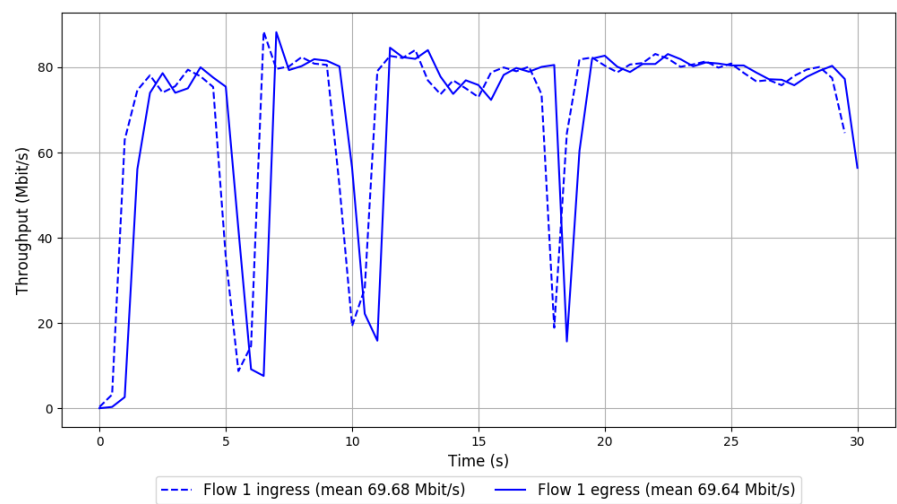
-- Flow 1:

Average throughput: 69.64 Mbit/s

95th percentile per-packet one-way delay: 50.640 ms

Loss rate: 0.39%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-07-01 23:58:23

End at: 2018-07-01 23:58:53

Local clock offset: 0.049 ms

Remote clock offset: 0.05 ms

Below is generated by plot.py at 2018-07-02 03:32:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.86 Mbit/s

95th percentile per-packet one-way delay: 50.300 ms

Loss rate: 0.36%

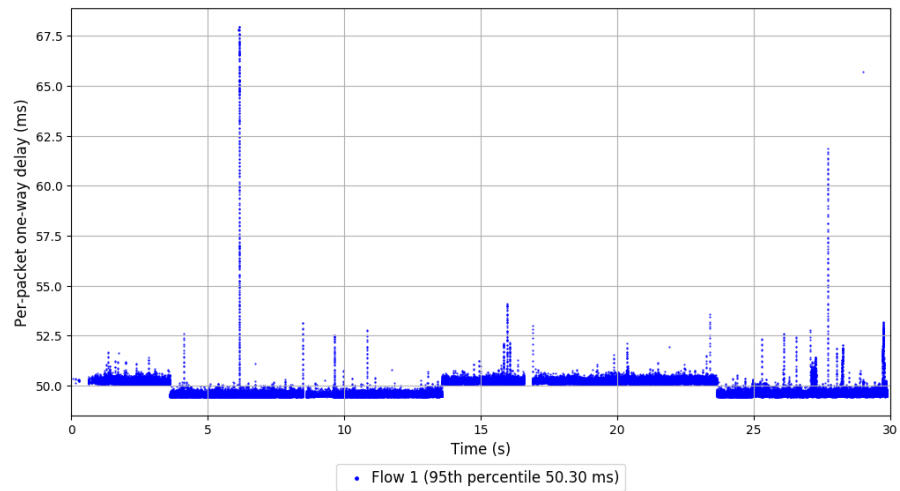
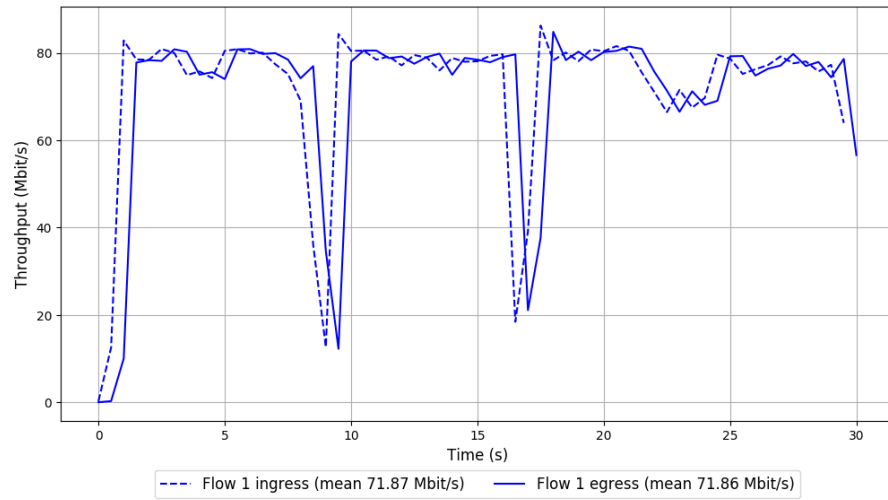
-- Flow 1:

Average throughput: 71.86 Mbit/s

95th percentile per-packet one-way delay: 50.300 ms

Loss rate: 0.36%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-07-02 00:19:26

End at: 2018-07-02 00:19:56

Local clock offset: 0.095 ms

Remote clock offset: -0.076 ms

Below is generated by plot.py at 2018-07-02 03:32:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.56 Mbit/s

95th percentile per-packet one-way delay: 50.994 ms

Loss rate: 0.41%

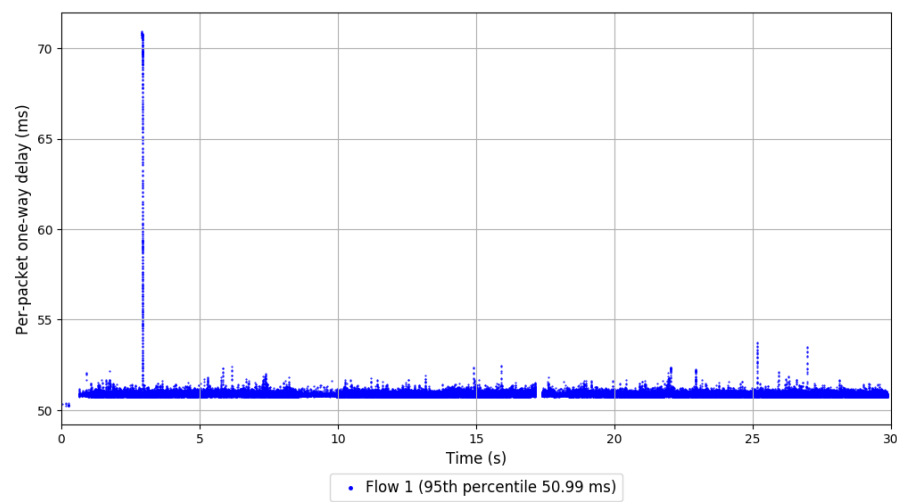
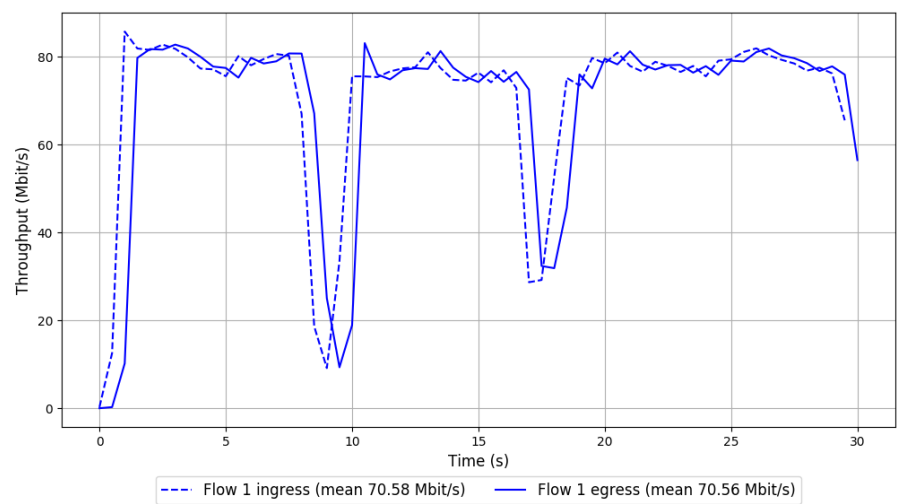
-- Flow 1:

Average throughput: 70.56 Mbit/s

95th percentile per-packet one-way delay: 50.994 ms

Loss rate: 0.41%

Run 4: Report of QUIC Cubic — Data Link

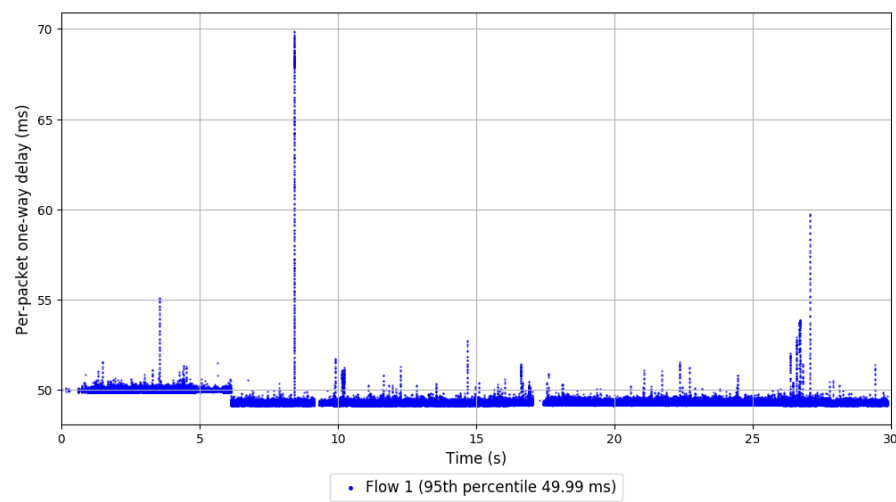
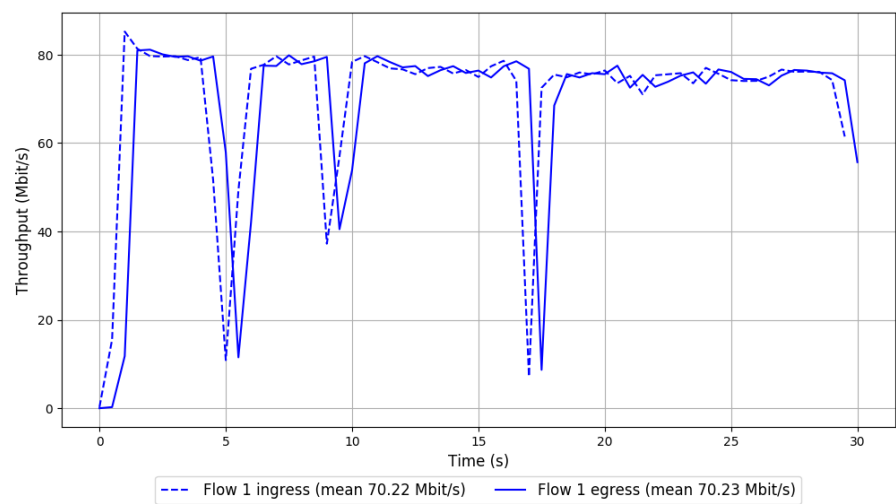


Run 5: Statistics of QUIC Cubic

Start at: 2018-07-02 00:40:21
End at: 2018-07-02 00:40:51
Local clock offset: 0.471 ms
Remote clock offset: -0.098 ms

Below is generated by plot.py at 2018-07-02 03:32:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 70.23 Mbit/s
95th percentile per-packet one-way delay: 49.995 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 70.23 Mbit/s
95th percentile per-packet one-way delay: 49.995 ms
Loss rate: 0.32%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-07-02 01:01:11

End at: 2018-07-02 01:01:41

Local clock offset: 0.126 ms

Remote clock offset: 0.109 ms

Below is generated by plot.py at 2018-07-02 03:32:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.44 Mbit/s

95th percentile per-packet one-way delay: 51.056 ms

Loss rate: 0.39%

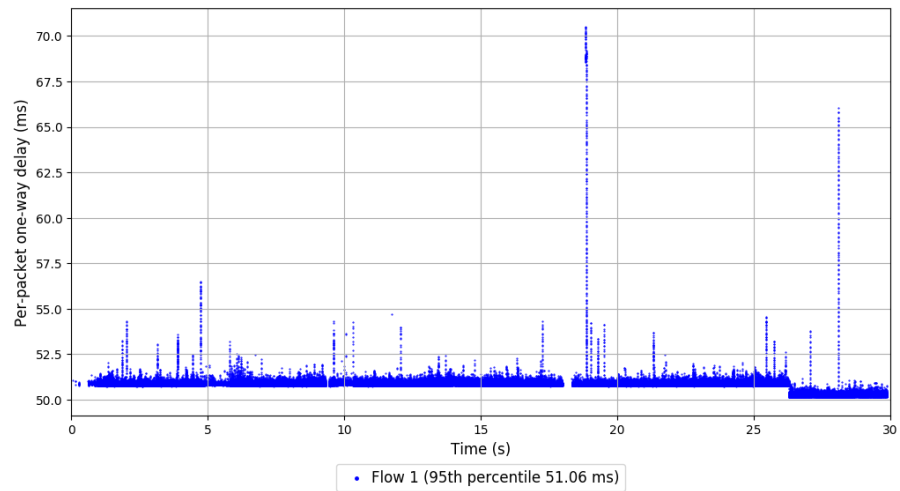
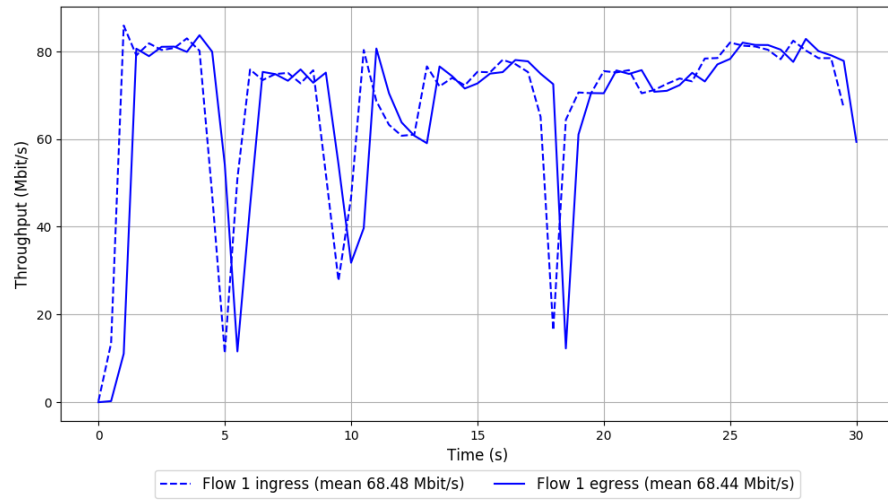
-- Flow 1:

Average throughput: 68.44 Mbit/s

95th percentile per-packet one-way delay: 51.056 ms

Loss rate: 0.39%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-07-02 01:22:09

End at: 2018-07-02 01:22:39

Local clock offset: 0.081 ms

Remote clock offset: 0.052 ms

Below is generated by plot.py at 2018-07-02 03:32:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.50 Mbit/s

95th percentile per-packet one-way delay: 50.736 ms

Loss rate: 0.34%

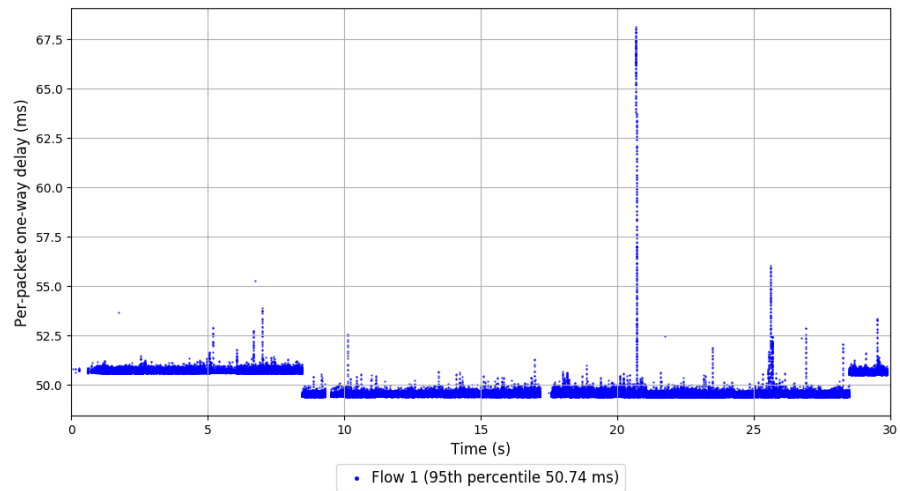
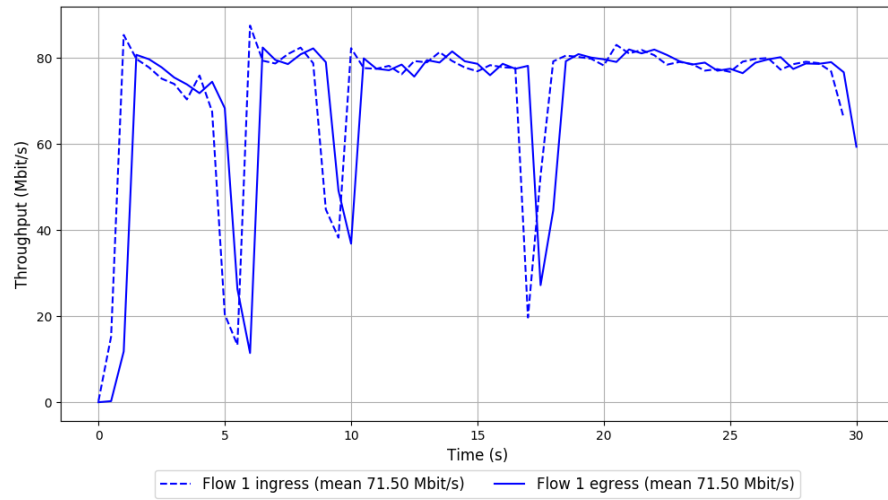
-- Flow 1:

Average throughput: 71.50 Mbit/s

95th percentile per-packet one-way delay: 50.736 ms

Loss rate: 0.34%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-07-02 01:43:23

End at: 2018-07-02 01:43:53

Local clock offset: 0.074 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2018-07-02 03:32:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.70 Mbit/s

95th percentile per-packet one-way delay: 50.963 ms

Loss rate: 0.40%

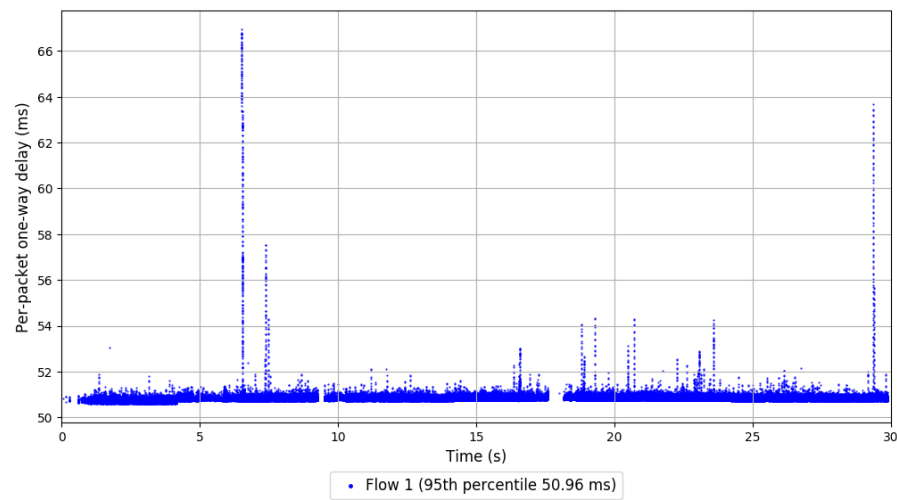
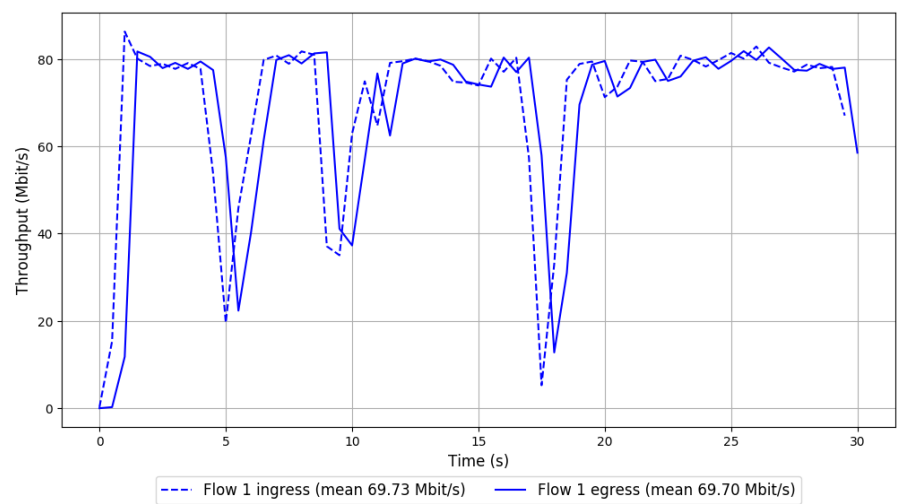
-- Flow 1:

Average throughput: 69.70 Mbit/s

95th percentile per-packet one-way delay: 50.963 ms

Loss rate: 0.40%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-07-02 02:04:28

End at: 2018-07-02 02:04:58

Local clock offset: 0.144 ms

Remote clock offset: 0.023 ms

Below is generated by plot.py at 2018-07-02 03:32:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.11 Mbit/s

95th percentile per-packet one-way delay: 49.725 ms

Loss rate: 0.39%

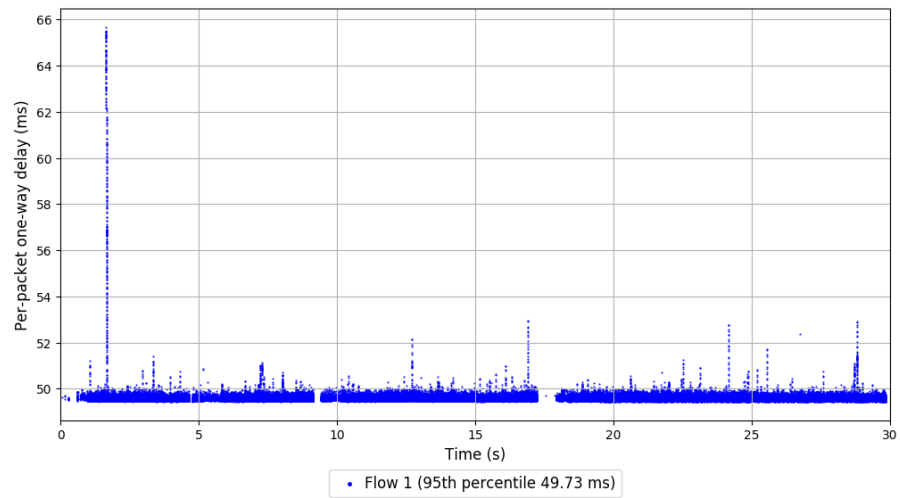
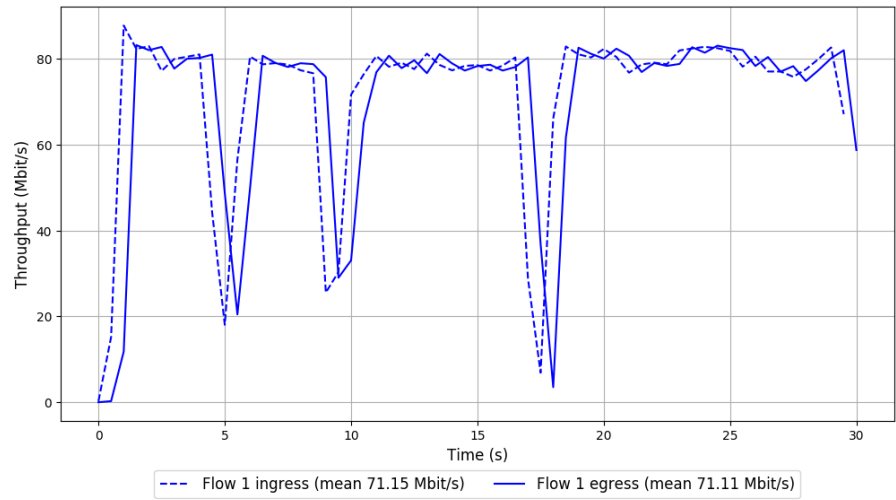
-- Flow 1:

Average throughput: 71.11 Mbit/s

95th percentile per-packet one-way delay: 49.725 ms

Loss rate: 0.39%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-07-02 02:25:21

End at: 2018-07-02 02:25:51

Local clock offset: -0.279 ms

Remote clock offset: -0.049 ms

Below is generated by plot.py at 2018-07-02 03:32:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.64 Mbit/s

95th percentile per-packet one-way delay: 50.017 ms

Loss rate: 0.38%

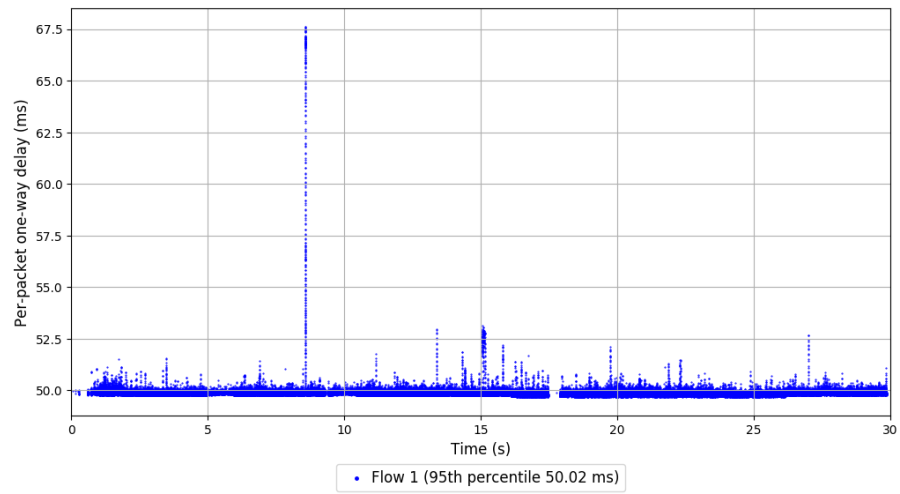
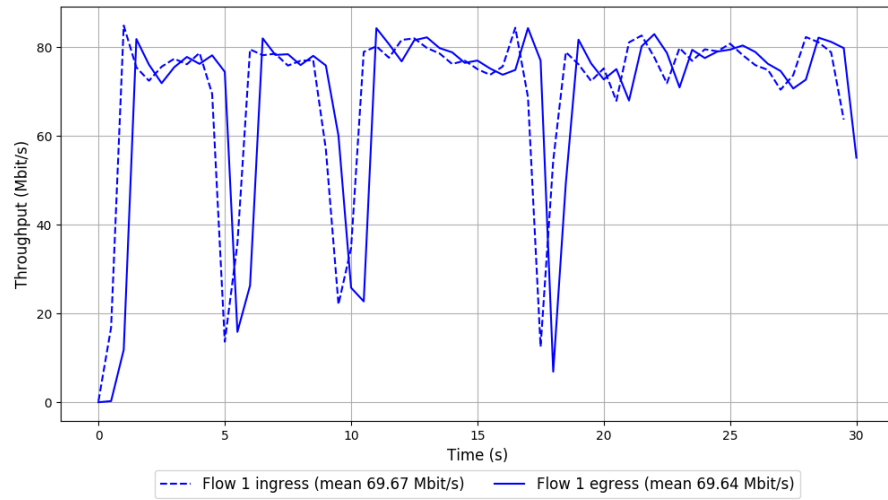
-- Flow 1:

Average throughput: 69.64 Mbit/s

95th percentile per-packet one-way delay: 50.017 ms

Loss rate: 0.38%

Run 10: Report of QUIC Cubic — Data Link

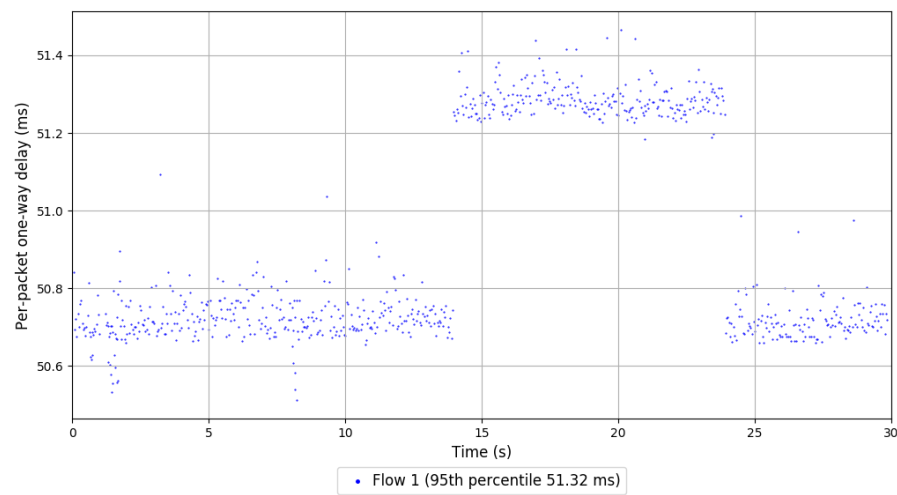
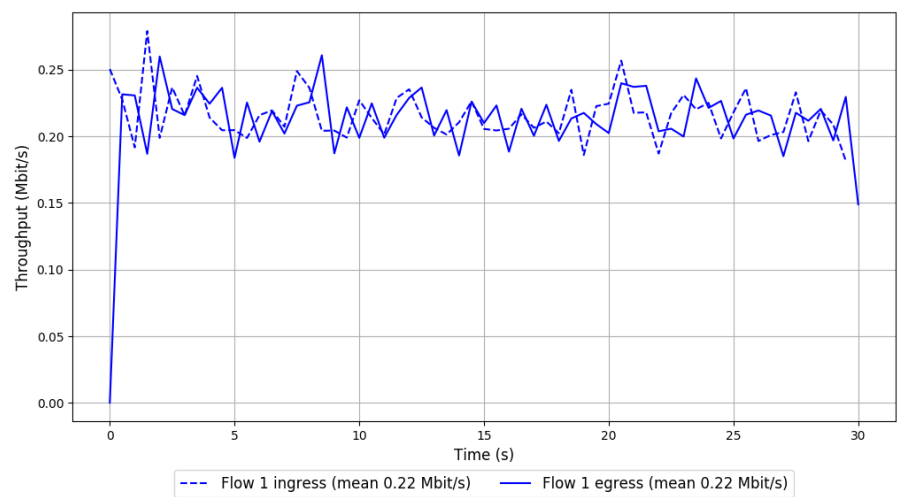


```
Run 1: Statistics of SCReAM

Start at: 2018-07-01 23:06:43
End at: 2018-07-01 23:07:13
Local clock offset: 0.426 ms
Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2018-07-02 03:32:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.322 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.322 ms
Loss rate: 0.38%
```

Run 1: Report of SReAM — Data Link

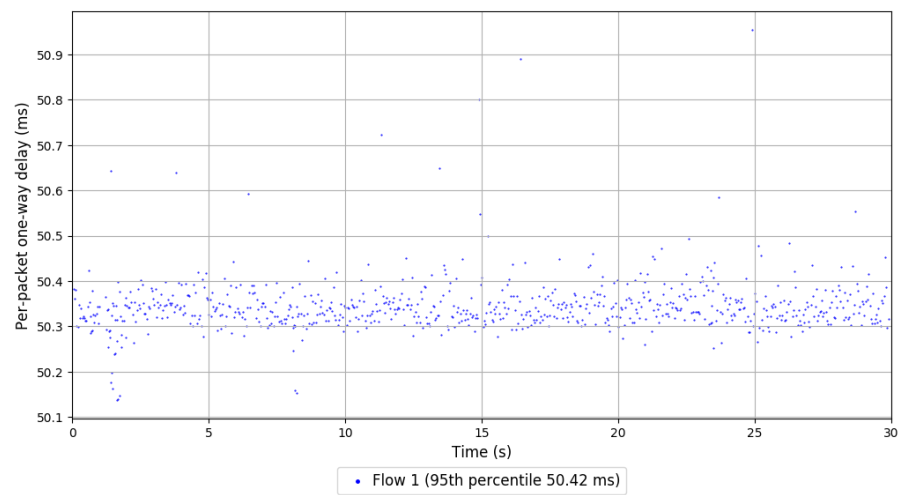
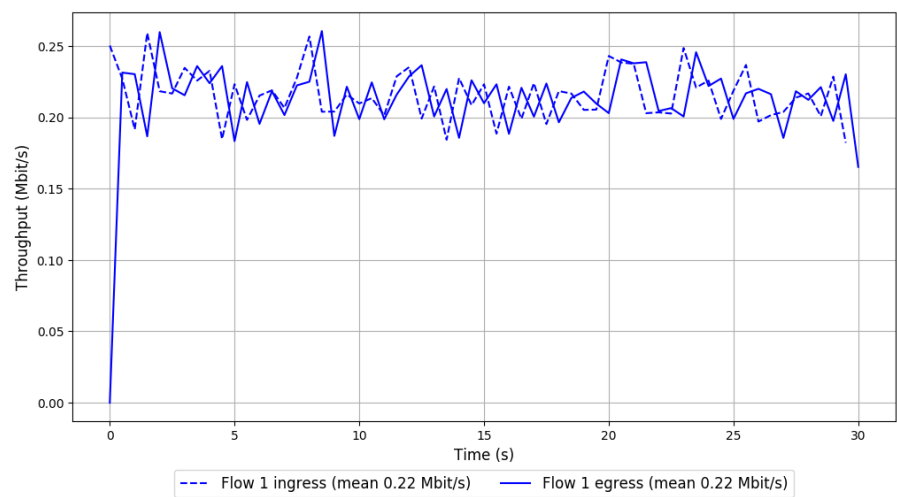


```
Run 2: Statistics of SCReAM

Start at: 2018-07-01 23:27:32
End at: 2018-07-01 23:28:02
Local clock offset: 0.06 ms
Remote clock offset: 0.056 ms

# Below is generated by plot.py at 2018-07-02 03:32:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.423 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.423 ms
Loss rate: 0.26%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-07-01 23:48:34

End at: 2018-07-01 23:49:04

Local clock offset: 0.082 ms

Remote clock offset: 0.123 ms

Below is generated by plot.py at 2018-07-02 03:32:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.894 ms

Loss rate: 0.38%

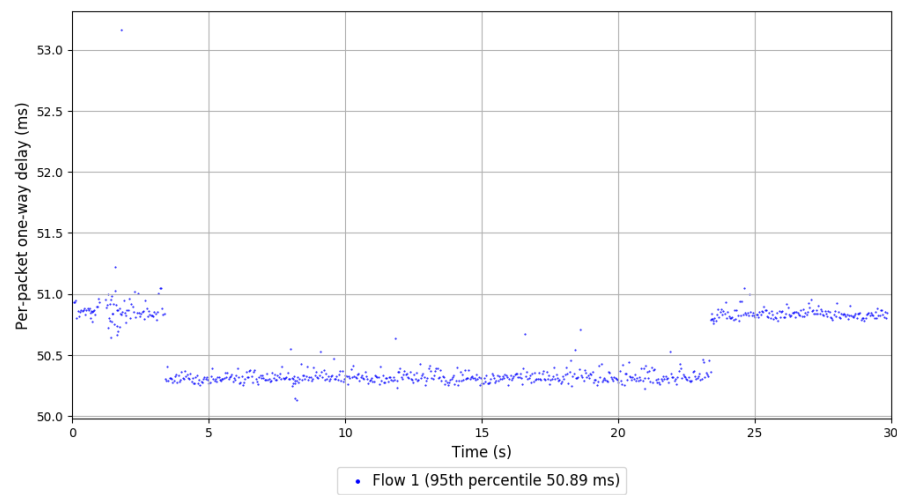
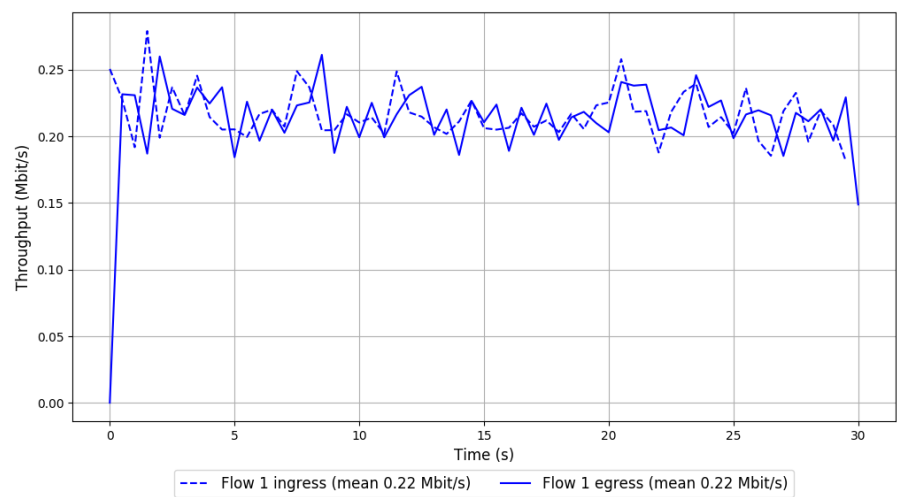
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.894 ms

Loss rate: 0.38%

Run 3: Report of SReAM — Data Link

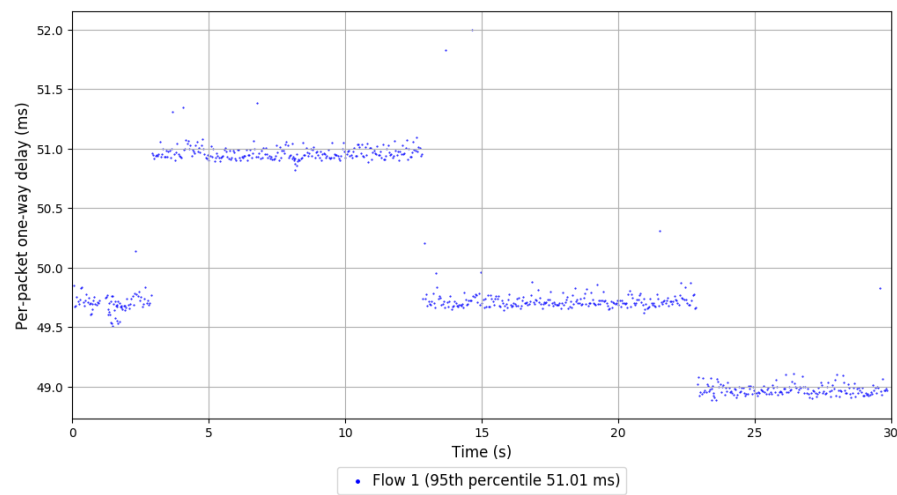
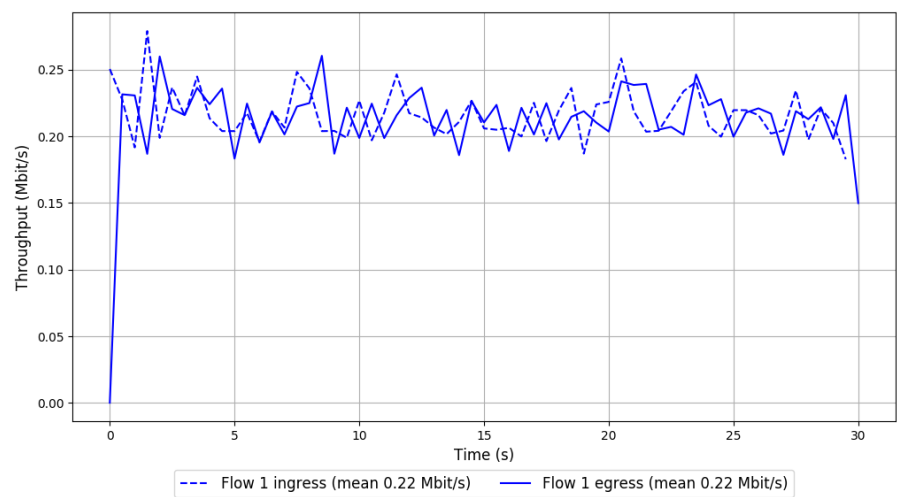


Run 4: Statistics of SCReAM

Start at: 2018-07-02 00:09:44
End at: 2018-07-02 00:10:14
Local clock offset: 0.088 ms
Remote clock offset: -0.024 ms

Below is generated by plot.py at 2018-07-02 03:32:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.013 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.013 ms
Loss rate: 0.38%

Run 4: Report of SReAM — Data Link

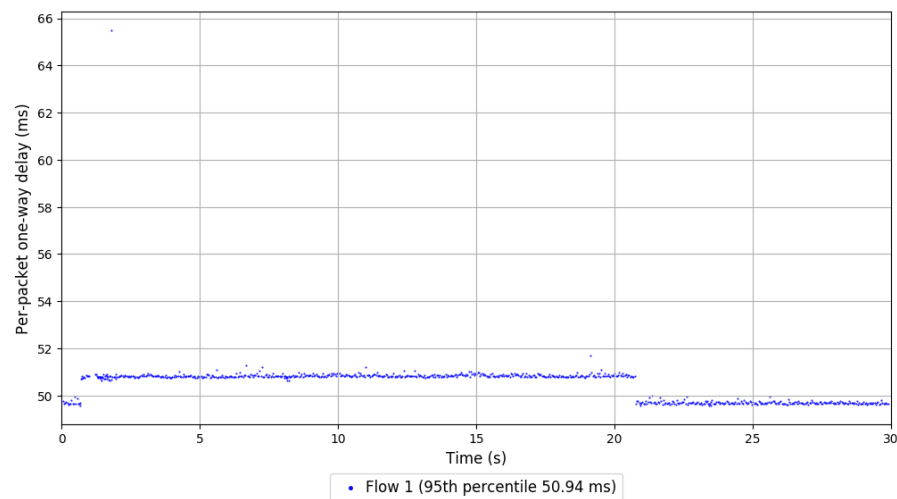
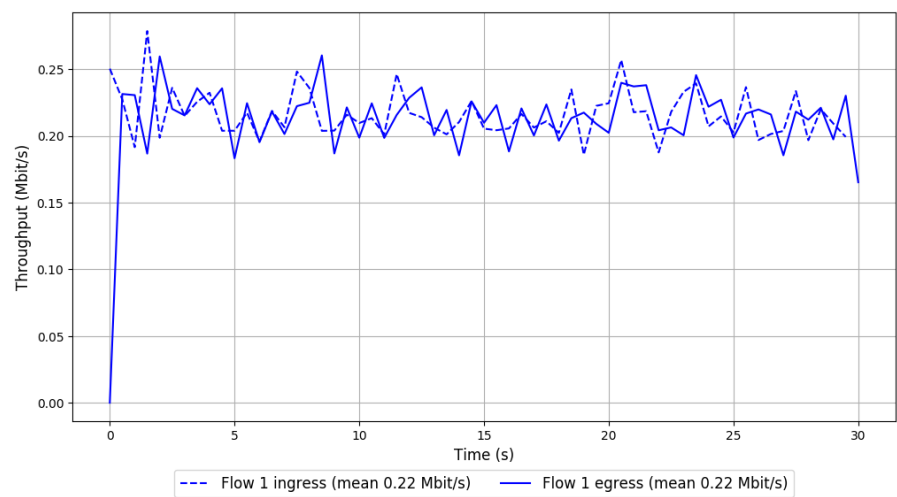


Run 5: Statistics of SCReAM

Start at: 2018-07-02 00:30:46
End at: 2018-07-02 00:31:16
Local clock offset: 0.099 ms
Remote clock offset: -0.107 ms

Below is generated by plot.py at 2018-07-02 03:32:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.939 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.939 ms
Loss rate: 0.39%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-07-02 00:51:24

End at: 2018-07-02 00:51:54

Local clock offset: 0.117 ms

Remote clock offset: 0.09 ms

Below is generated by plot.py at 2018-07-02 03:32:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.004 ms

Loss rate: 0.39%

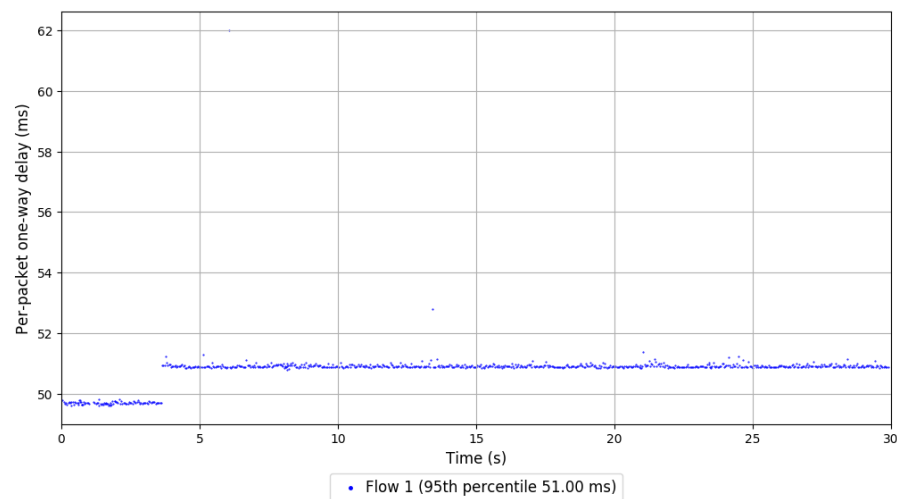
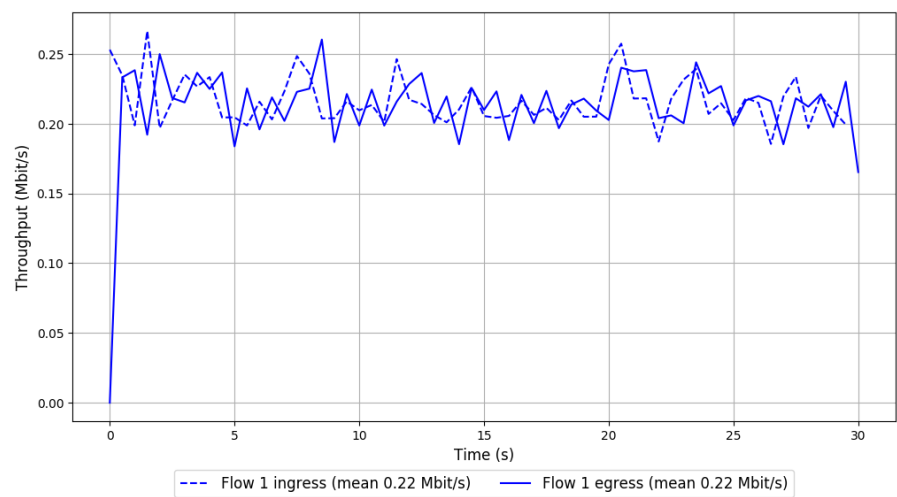
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.004 ms

Loss rate: 0.39%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-07-02 01:12:23

End at: 2018-07-02 01:12:53

Local clock offset: 0.097 ms

Remote clock offset: 0.218 ms

Below is generated by plot.py at 2018-07-02 03:32:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.762 ms

Loss rate: 0.39%

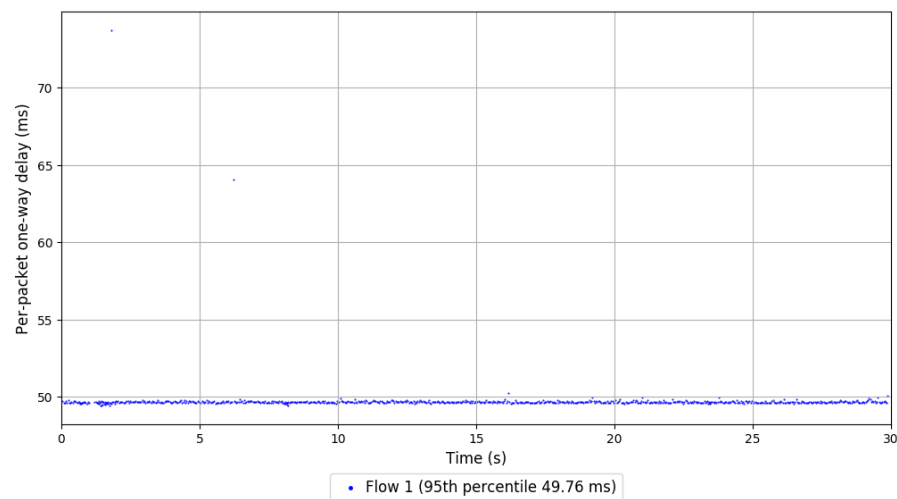
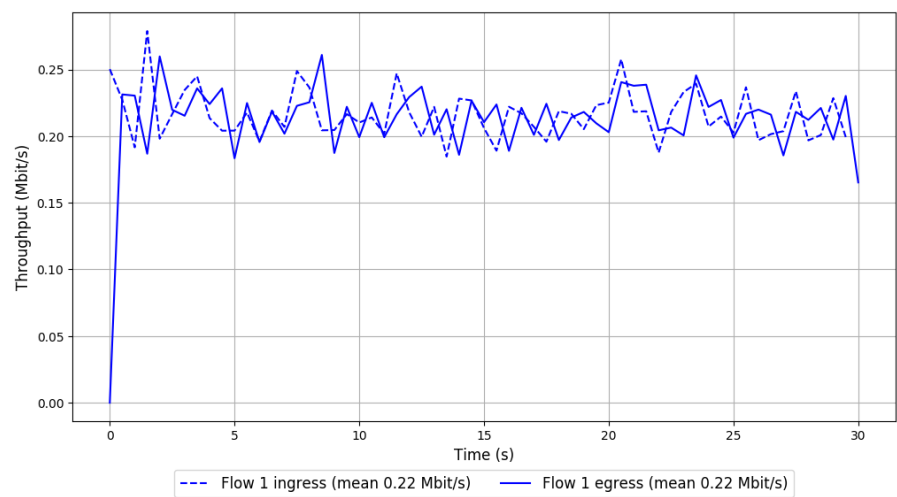
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.762 ms

Loss rate: 0.39%

Run 7: Report of SReAM — Data Link

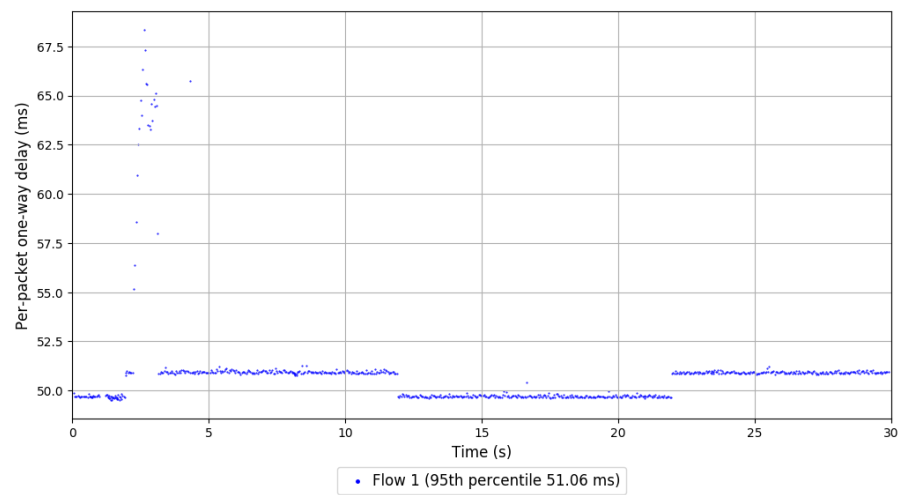
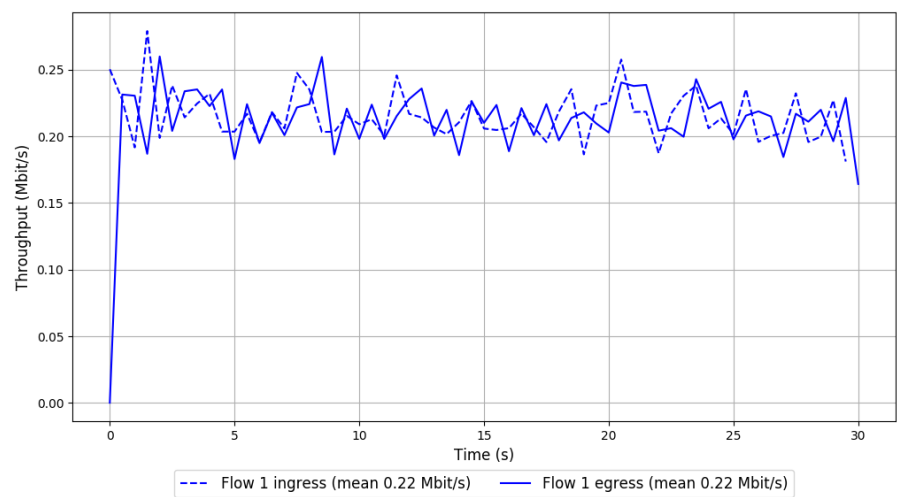


Run 8: Statistics of SCReAM

Start at: 2018-07-02 01:33:25
End at: 2018-07-02 01:33:55
Local clock offset: 0.103 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2018-07-02 03:32:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.059 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.059 ms
Loss rate: 0.26%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-07-02 01:54:41

End at: 2018-07-02 01:55:11

Local clock offset: -0.246 ms

Remote clock offset: 0.029 ms

Below is generated by plot.py at 2018-07-02 03:32:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.680 ms

Loss rate: 0.26%

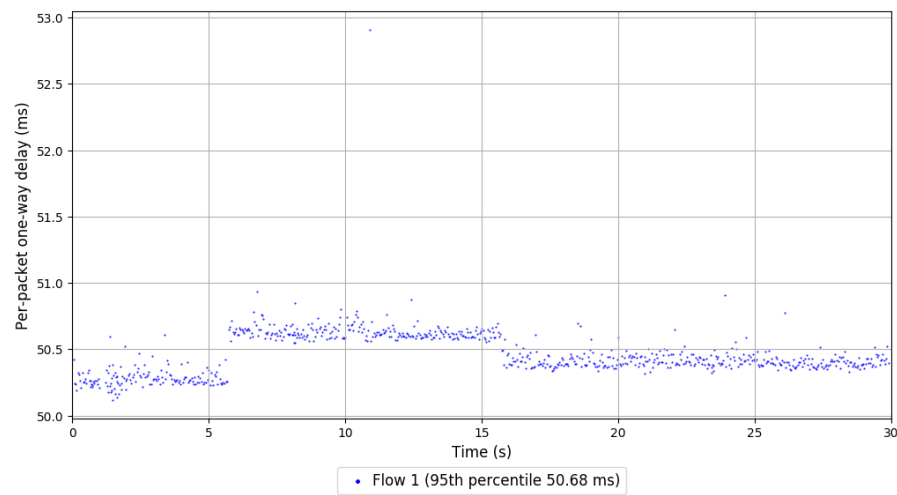
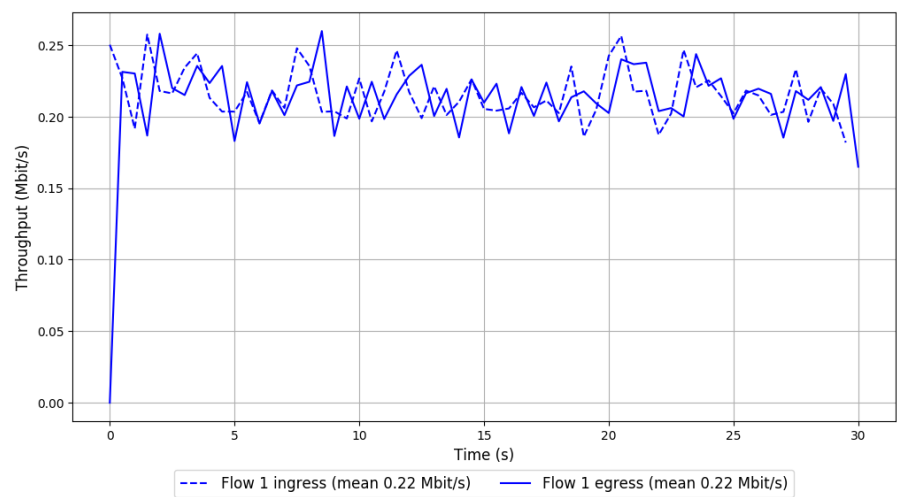
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.680 ms

Loss rate: 0.26%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-07-02 02:15:41

End at: 2018-07-02 02:16:11

Local clock offset: 0.172 ms

Remote clock offset: 0.002 ms

Below is generated by plot.py at 2018-07-02 03:32:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.494 ms

Loss rate: 0.26%

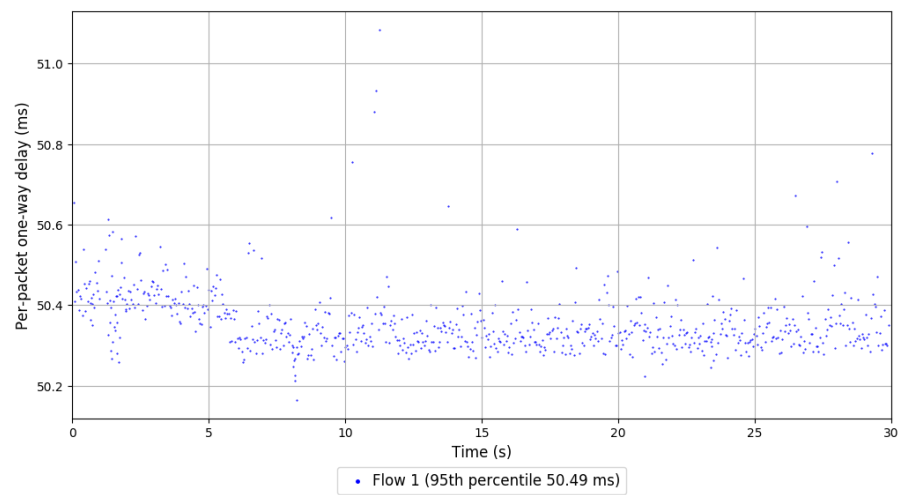
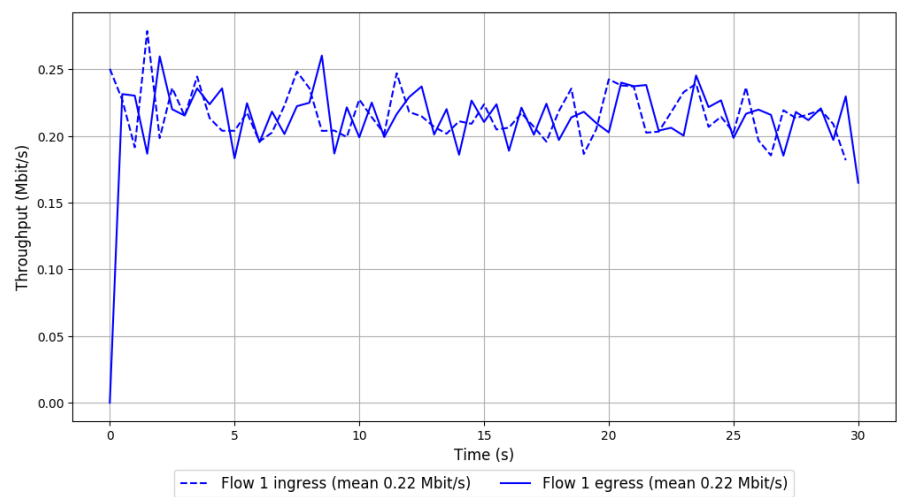
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.494 ms

Loss rate: 0.26%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-07-01 23:09:02

End at: 2018-07-01 23:09:32

Local clock offset: 0.426 ms

Remote clock offset: -0.005 ms

Below is generated by plot.py at 2018-07-02 03:32:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.85 Mbit/s

95th percentile per-packet one-way delay: 52.072 ms

Loss rate: 0.16%

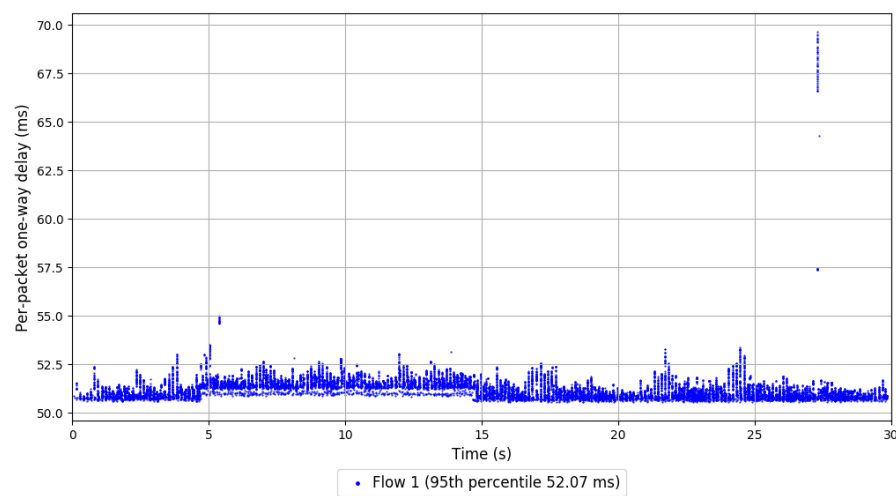
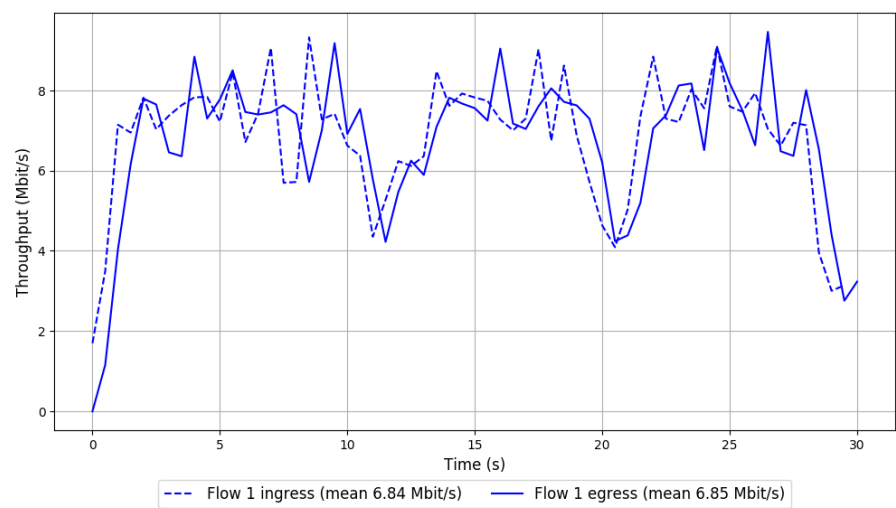
-- Flow 1:

Average throughput: 6.85 Mbit/s

95th percentile per-packet one-way delay: 52.072 ms

Loss rate: 0.16%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-07-01 23:29:49

End at: 2018-07-01 23:30:19

Local clock offset: 0.08 ms

Remote clock offset: 0.032 ms

Below is generated by plot.py at 2018-07-02 03:32:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.74 Mbit/s

95th percentile per-packet one-way delay: 51.939 ms

Loss rate: 0.20%

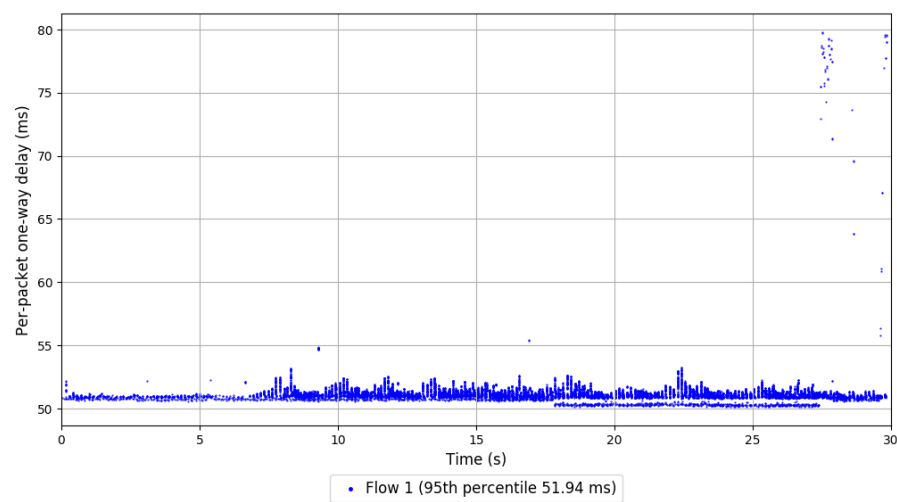
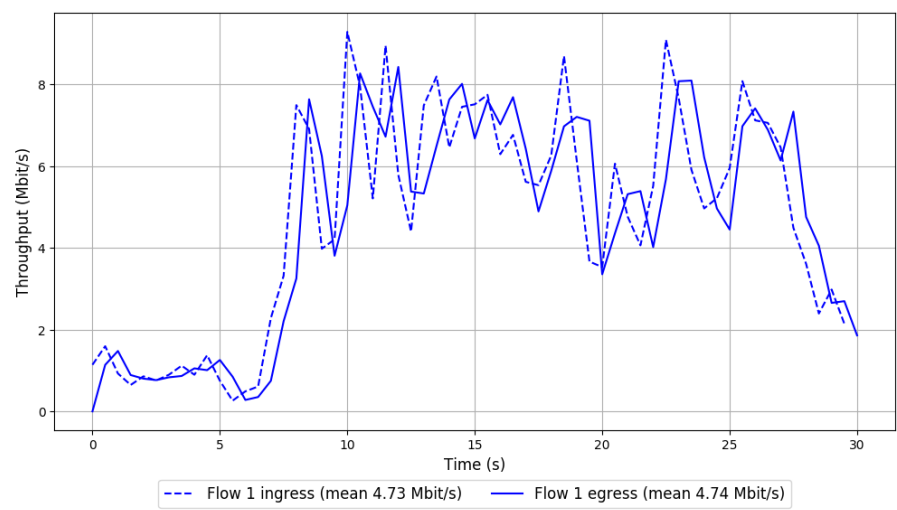
-- Flow 1:

Average throughput: 4.74 Mbit/s

95th percentile per-packet one-way delay: 51.939 ms

Loss rate: 0.20%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-07-01 23:50:51

End at: 2018-07-01 23:51:21

Local clock offset: 0.448 ms

Remote clock offset: 0.081 ms

Below is generated by plot.py at 2018-07-02 03:32:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.31 Mbit/s

95th percentile per-packet one-way delay: 52.200 ms

Loss rate: 0.25%

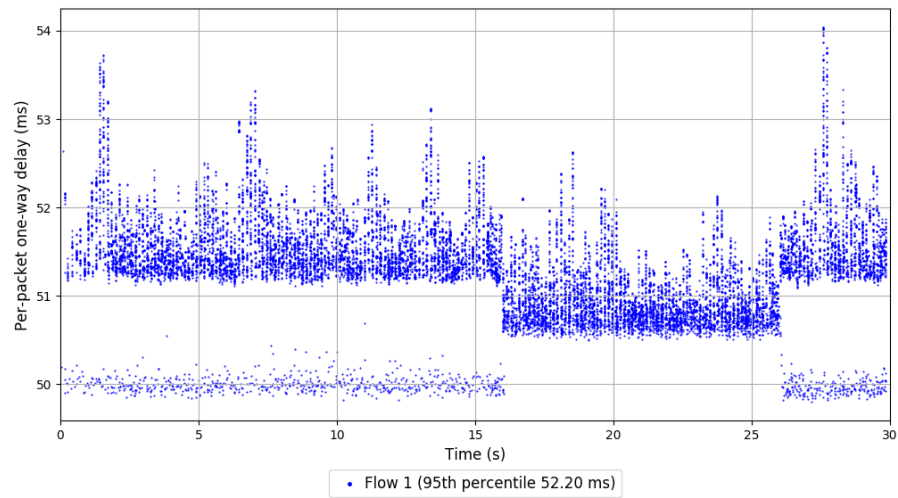
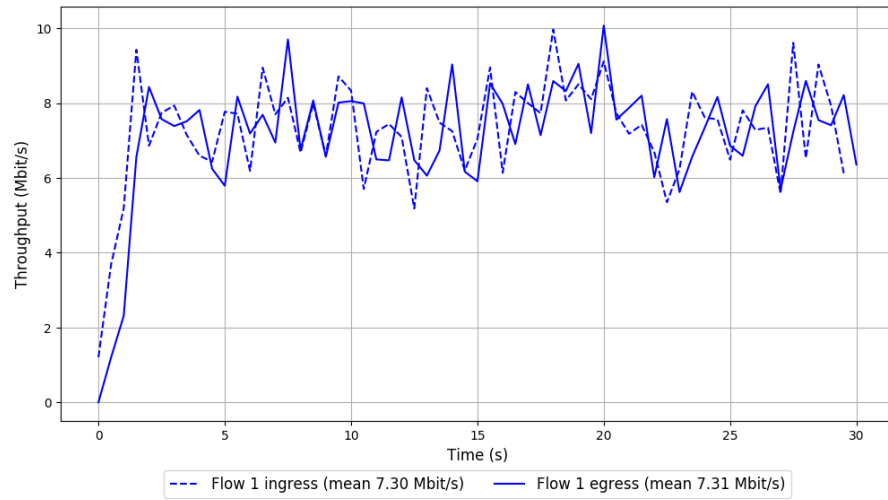
-- Flow 1:

Average throughput: 7.31 Mbit/s

95th percentile per-packet one-way delay: 52.200 ms

Loss rate: 0.25%

Run 3: Report of Sprout — Data Link

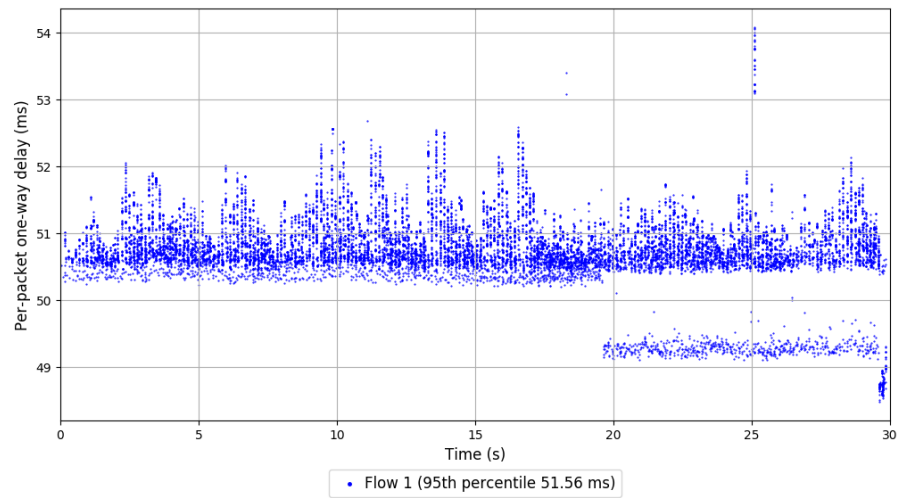
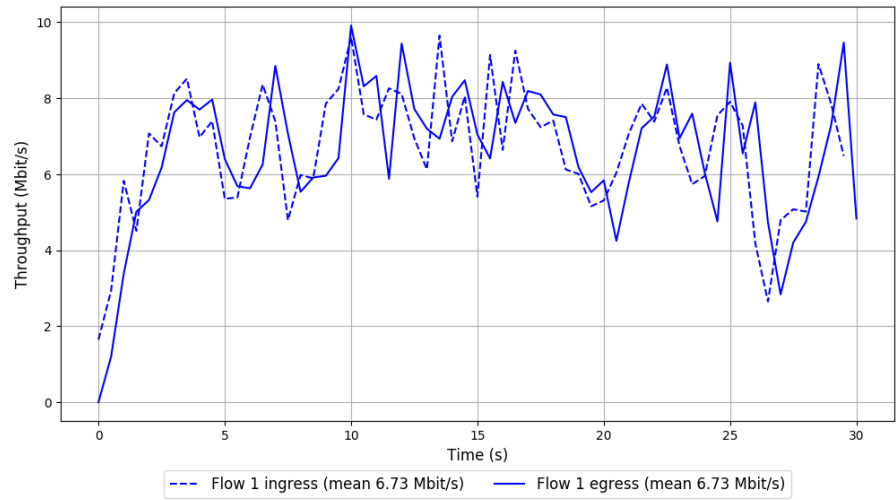


Run 4: Statistics of Sprout

Start at: 2018-07-02 00:11:57
End at: 2018-07-02 00:12:27
Local clock offset: -0.33 ms
Remote clock offset: -0.064 ms

Below is generated by plot.py at 2018-07-02 03:32:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.73 Mbit/s
95th percentile per-packet one-way delay: 51.561 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 6.73 Mbit/s
95th percentile per-packet one-way delay: 51.561 ms
Loss rate: 0.41%

Run 4: Report of Sprout — Data Link

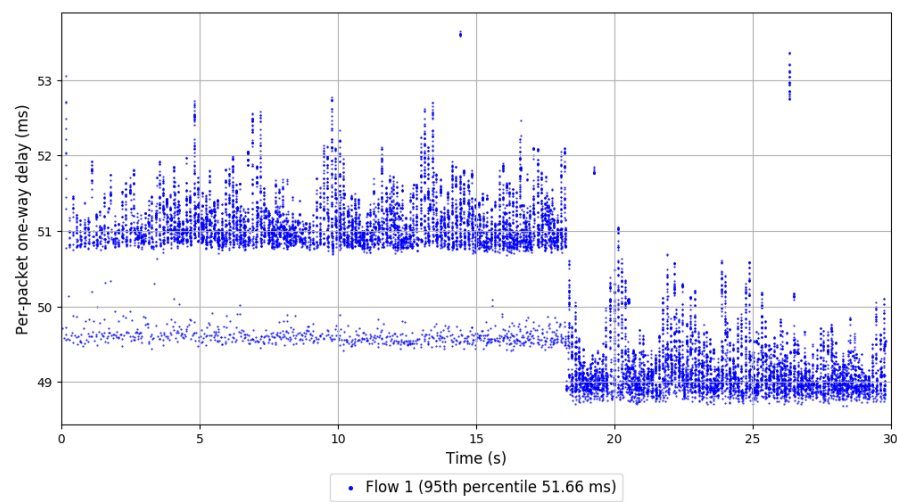
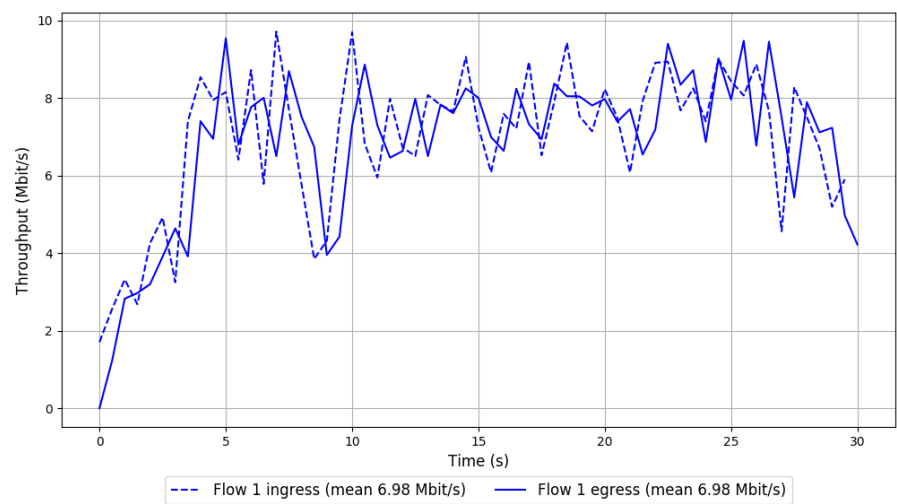


Run 5: Statistics of Sprout

Start at: 2018-07-02 00:32:59
End at: 2018-07-02 00:33:29
Local clock offset: 0.04 ms
Remote clock offset: -0.118 ms

Below is generated by plot.py at 2018-07-02 03:32:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.98 Mbit/s
95th percentile per-packet one-way delay: 51.662 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 6.98 Mbit/s
95th percentile per-packet one-way delay: 51.662 ms
Loss rate: 0.52%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-07-02 00:53:36

End at: 2018-07-02 00:54:06

Local clock offset: 0.108 ms

Remote clock offset: 0.11 ms

Below is generated by plot.py at 2018-07-02 03:32:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.36 Mbit/s

95th percentile per-packet one-way delay: 50.783 ms

Loss rate: 0.51%

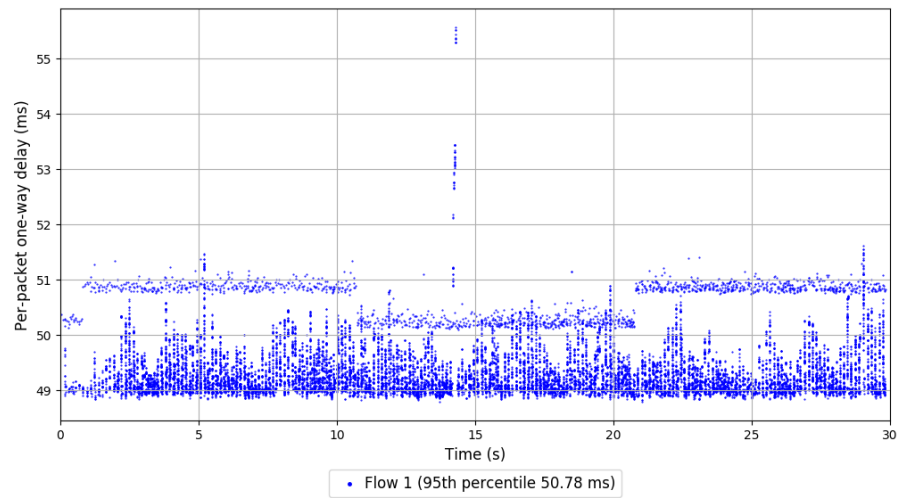
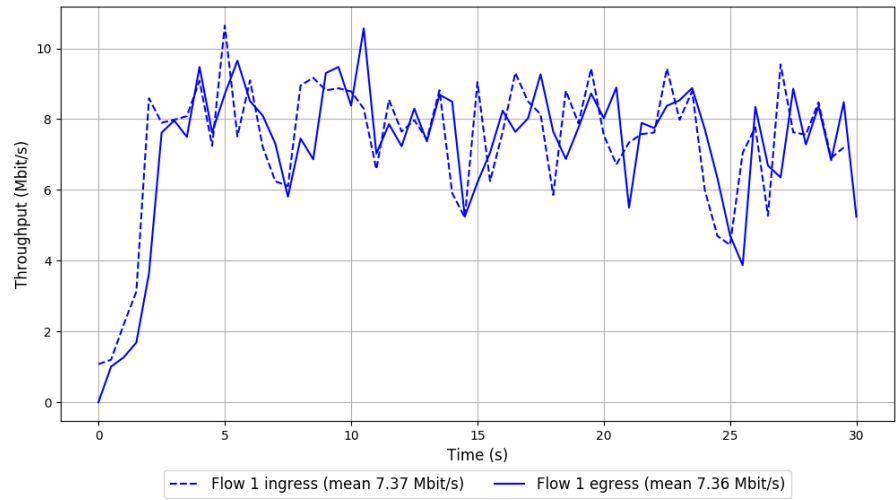
-- Flow 1:

Average throughput: 7.36 Mbit/s

95th percentile per-packet one-way delay: 50.783 ms

Loss rate: 0.51%

Run 6: Report of Sprout — Data Link

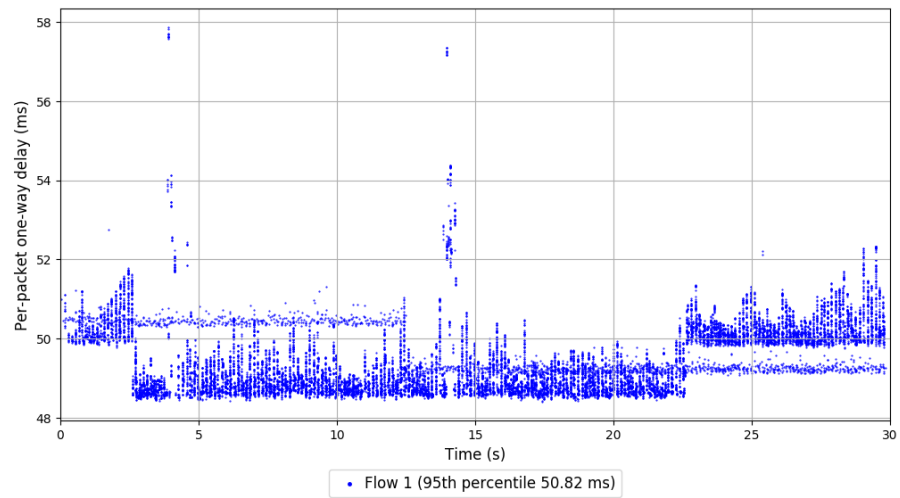
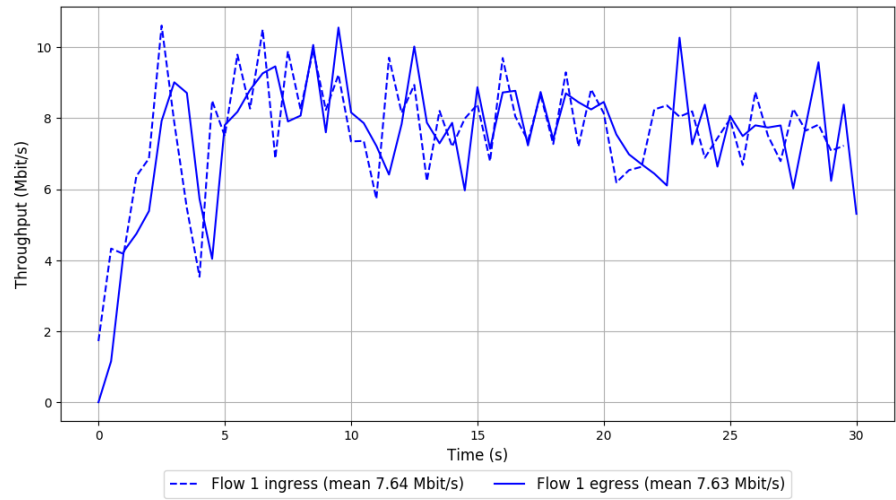


Run 7: Statistics of Sprout

Start at: 2018-07-02 01:14:44
End at: 2018-07-02 01:15:14
Local clock offset: -0.275 ms
Remote clock offset: 0.123 ms

Below is generated by plot.py at 2018-07-02 03:32:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.63 Mbit/s
95th percentile per-packet one-way delay: 50.821 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 7.63 Mbit/s
95th percentile per-packet one-way delay: 50.821 ms
Loss rate: 0.48%

Run 7: Report of Sprout — Data Link

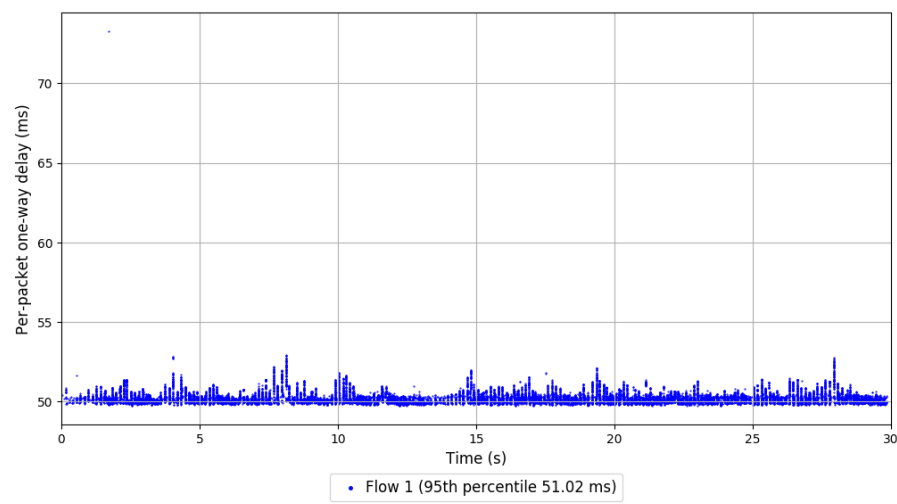
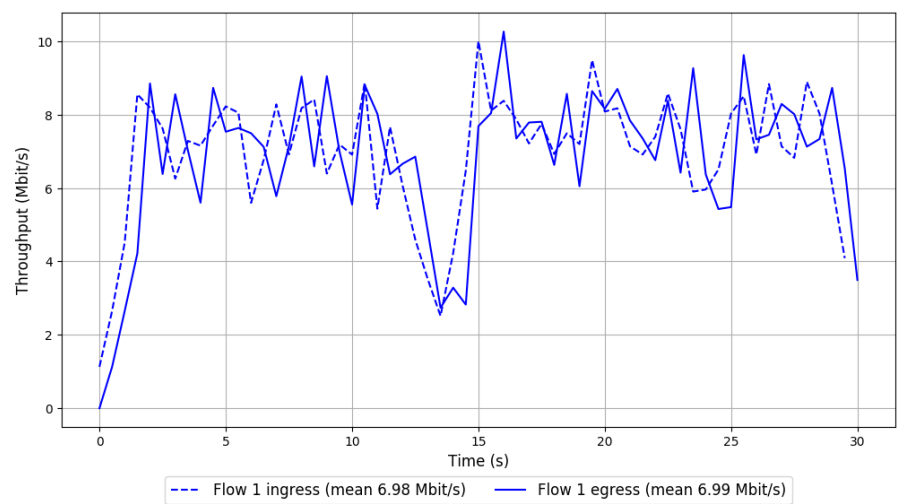


Run 8: Statistics of Sprout

Start at: 2018-07-02 01:35:46
End at: 2018-07-02 01:36:16
Local clock offset: -0.33 ms
Remote clock offset: -0.005 ms

Below is generated by plot.py at 2018-07-02 03:32:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.99 Mbit/s
95th percentile per-packet one-way delay: 51.023 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 6.99 Mbit/s
95th percentile per-packet one-way delay: 51.023 ms
Loss rate: 0.24%

Run 8: Report of Sprout — Data Link

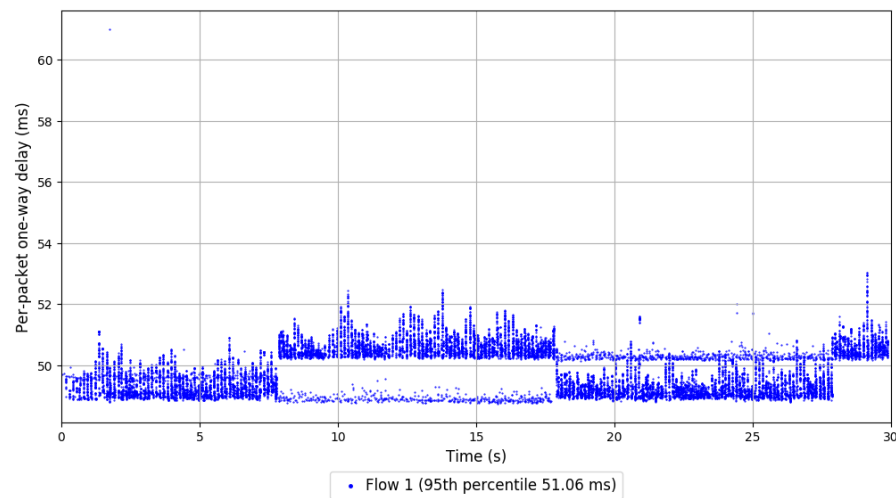
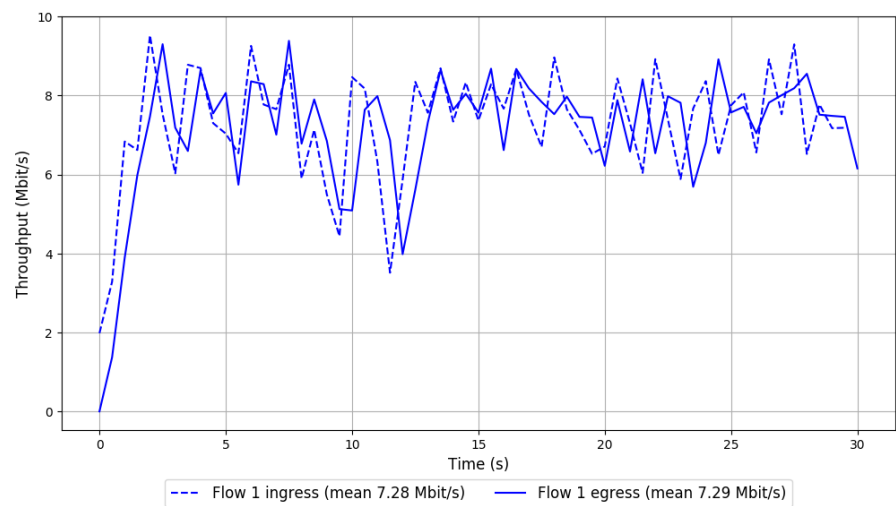


Run 9: Statistics of Sprout

Start at: 2018-07-02 01:56:59
End at: 2018-07-02 01:57:29
Local clock offset: 0.102 ms
Remote clock offset: -0.019 ms

Below is generated by plot.py at 2018-07-02 03:32:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.29 Mbit/s
95th percentile per-packet one-way delay: 51.065 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 7.29 Mbit/s
95th percentile per-packet one-way delay: 51.065 ms
Loss rate: 0.24%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-07-02 02:17:57

End at: 2018-07-02 02:18:27

Local clock offset: 0.119 ms

Remote clock offset: 0.079 ms

Below is generated by plot.py at 2018-07-02 03:32:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.80 Mbit/s

95th percentile per-packet one-way delay: 51.894 ms

Loss rate: 0.58%

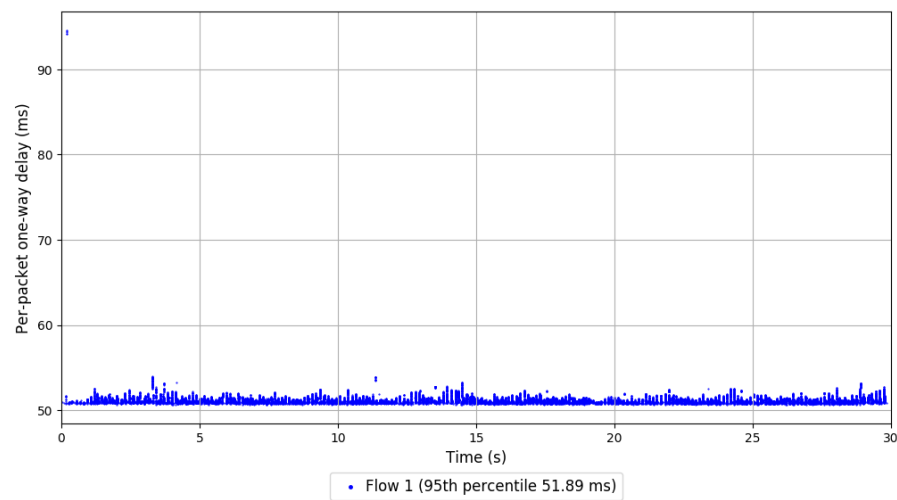
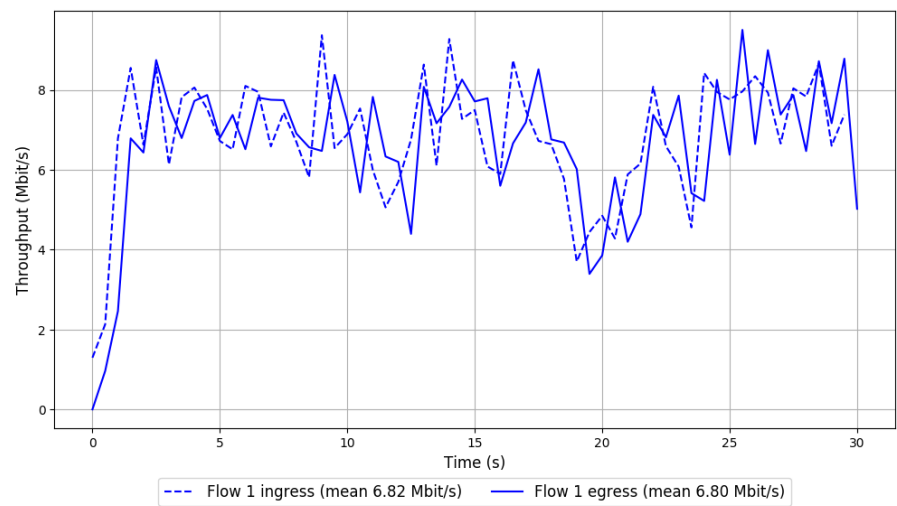
-- Flow 1:

Average throughput: 6.80 Mbit/s

95th percentile per-packet one-way delay: 51.894 ms

Loss rate: 0.58%

Run 10: Report of Sprout — Data Link

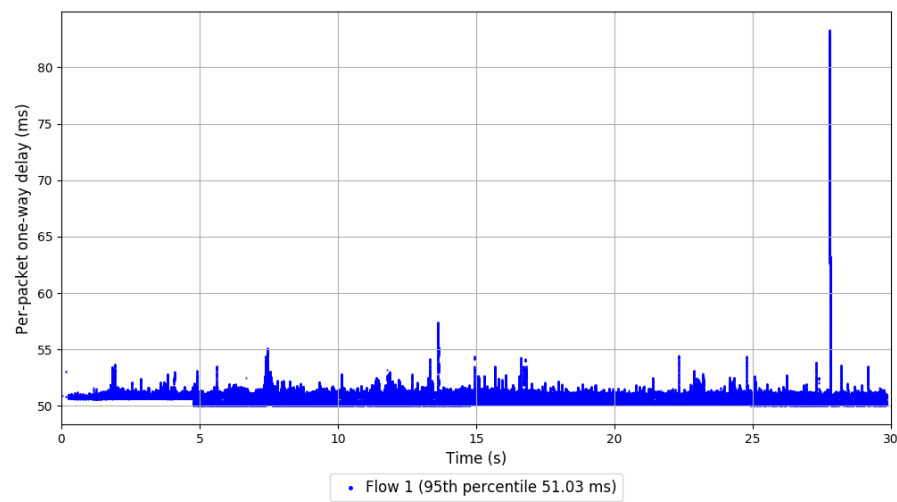
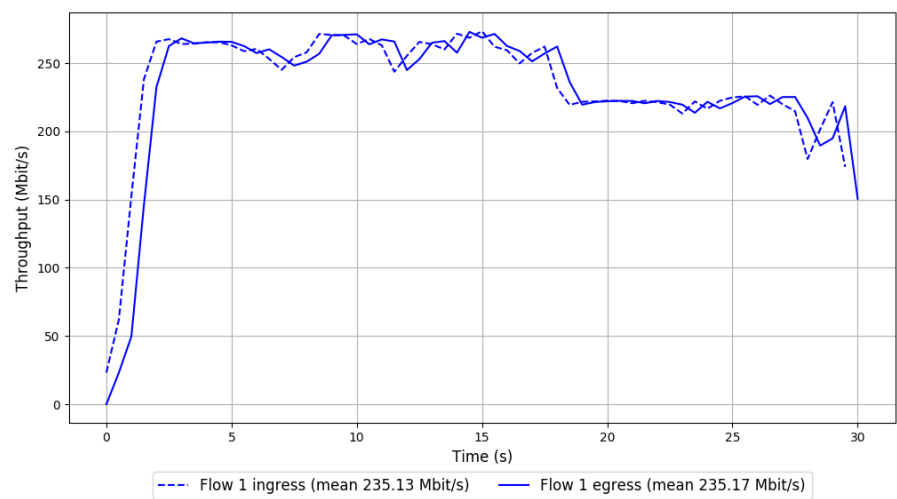


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-07-01 23:00:32
End at: 2018-07-01 23:01:02
Local clock offset: -0.018 ms
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2018-07-02 03:34:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 235.17 Mbit/s
95th percentile per-packet one-way delay: 51.031 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 235.17 Mbit/s
95th percentile per-packet one-way delay: 51.031 ms
Loss rate: 0.33%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-07-01 23:21:30

End at: 2018-07-01 23:22:00

Local clock offset: 0.014 ms

Remote clock offset: 0.025 ms

Below is generated by plot.py at 2018-07-02 03:34:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.53 Mbit/s

95th percentile per-packet one-way delay: 51.818 ms

Loss rate: 1.04%

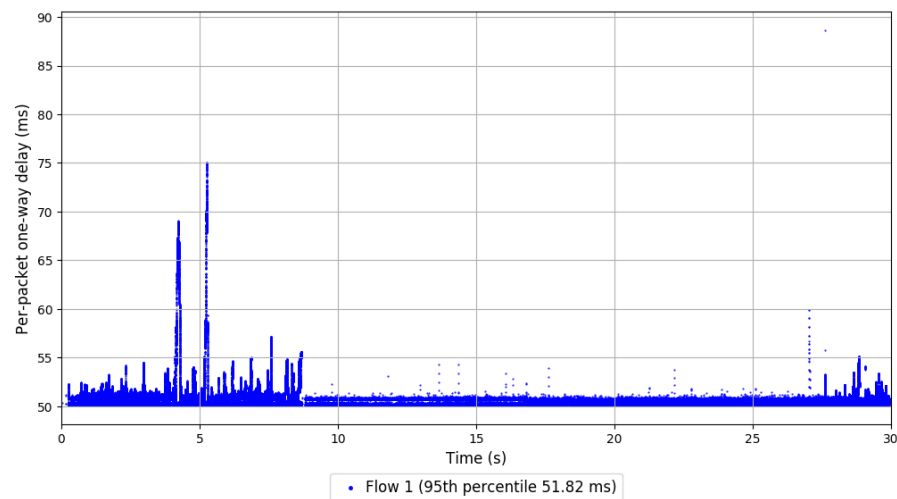
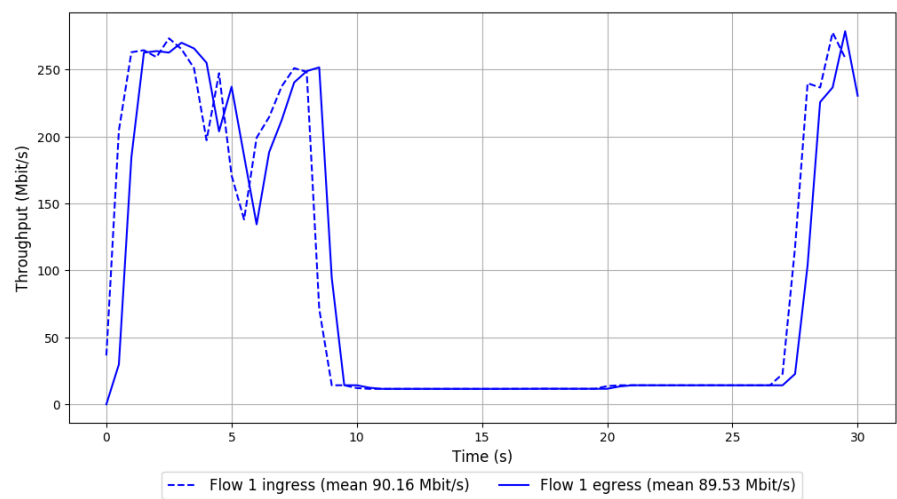
-- Flow 1:

Average throughput: 89.53 Mbit/s

95th percentile per-packet one-way delay: 51.818 ms

Loss rate: 1.04%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-07-01 23:42:24

End at: 2018-07-01 23:42:54

Local clock offset: 0.13 ms

Remote clock offset: 0.068 ms

Below is generated by plot.py at 2018-07-02 03:34:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.71 Mbit/s

95th percentile per-packet one-way delay: 51.383 ms

Loss rate: 0.40%

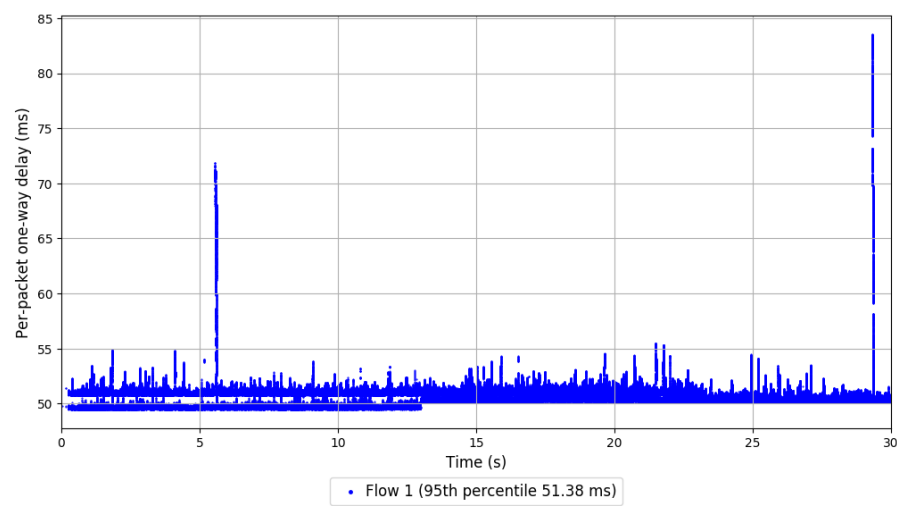
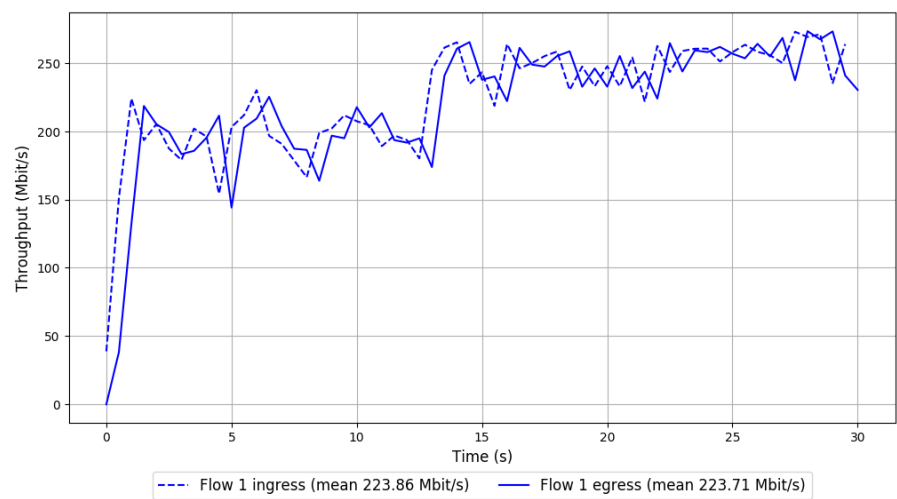
-- Flow 1:

Average throughput: 223.71 Mbit/s

95th percentile per-packet one-way delay: 51.383 ms

Loss rate: 0.40%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-07-02 00:03:33

End at: 2018-07-02 00:04:03

Local clock offset: 0.095 ms

Remote clock offset: 0.083 ms

Below is generated by plot.py at 2018-07-02 03:34:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 249.12 Mbit/s

95th percentile per-packet one-way delay: 51.180 ms

Loss rate: 0.36%

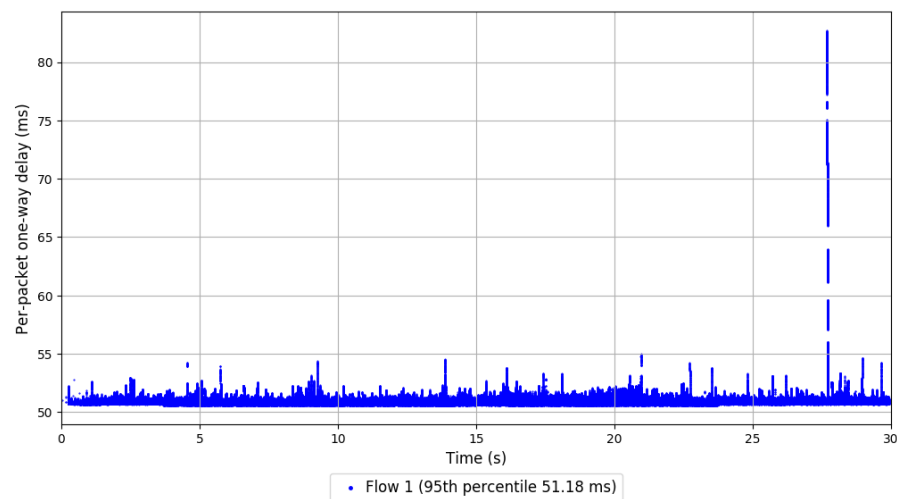
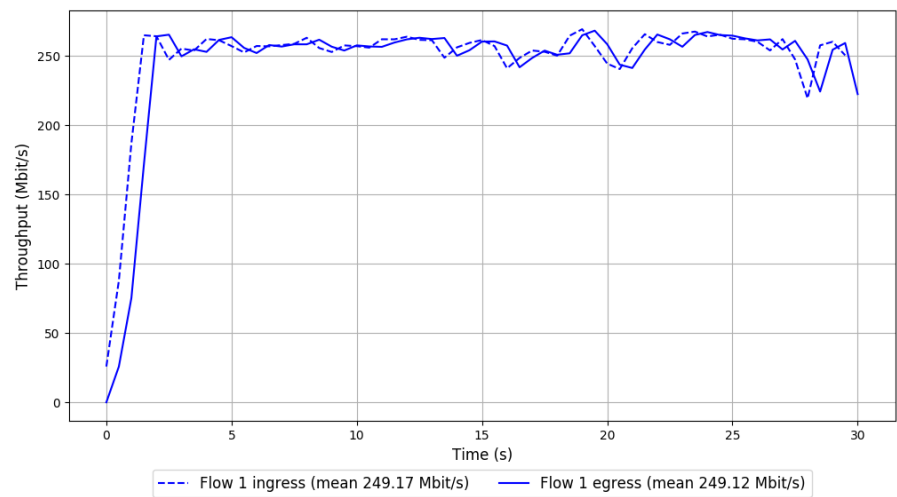
-- Flow 1:

Average throughput: 249.12 Mbit/s

95th percentile per-packet one-way delay: 51.180 ms

Loss rate: 0.36%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-07-02 00:24:38

End at: 2018-07-02 00:25:08

Local clock offset: 0.095 ms

Remote clock offset: -0.116 ms

Below is generated by plot.py at 2018-07-02 03:34:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.01 Mbit/s

95th percentile per-packet one-way delay: 51.205 ms

Loss rate: 0.18%

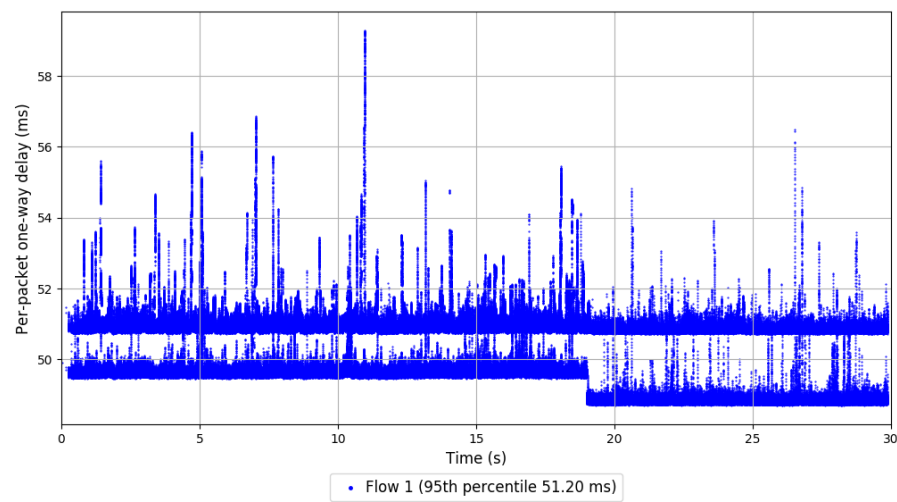
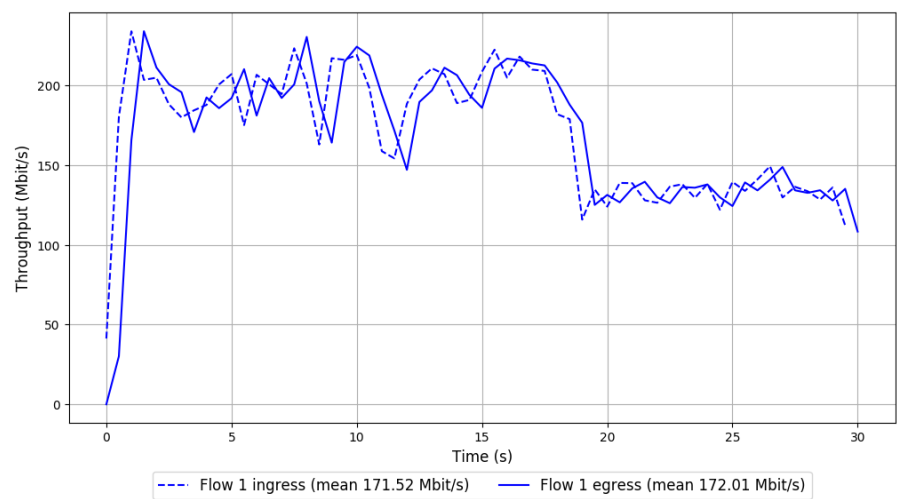
-- Flow 1:

Average throughput: 172.01 Mbit/s

95th percentile per-packet one-way delay: 51.205 ms

Loss rate: 0.18%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-07-02 00:45:22

End at: 2018-07-02 00:45:52

Local clock offset: -0.305 ms

Remote clock offset: 0.007 ms

Below is generated by plot.py at 2018-07-02 03:34:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 129.78 Mbit/s

95th percentile per-packet one-way delay: 52.306 ms

Loss rate: 0.68%

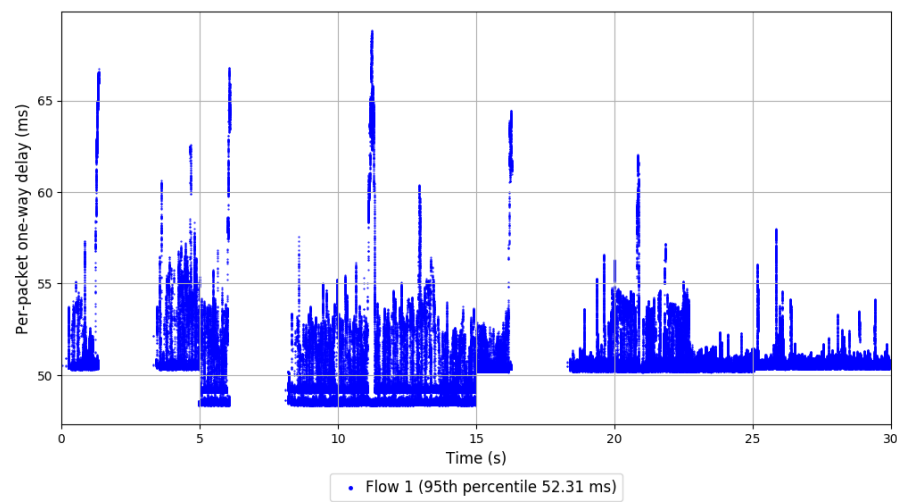
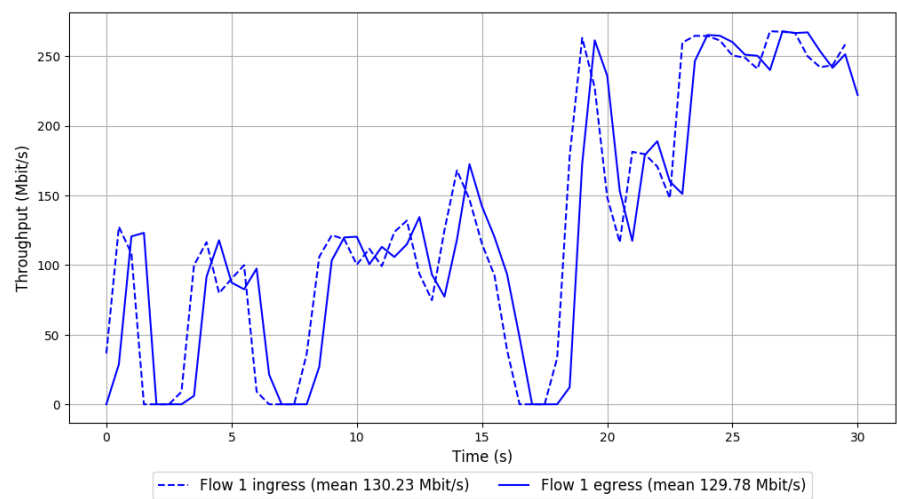
-- Flow 1:

Average throughput: 129.78 Mbit/s

95th percentile per-packet one-way delay: 52.306 ms

Loss rate: 0.68%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-07-02 01:06:13

End at: 2018-07-02 01:06:43

Local clock offset: 0.082 ms

Remote clock offset: 0.156 ms

Below is generated by plot.py at 2018-07-02 03:37:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.75 Mbit/s

95th percentile per-packet one-way delay: 50.584 ms

Loss rate: 0.33%

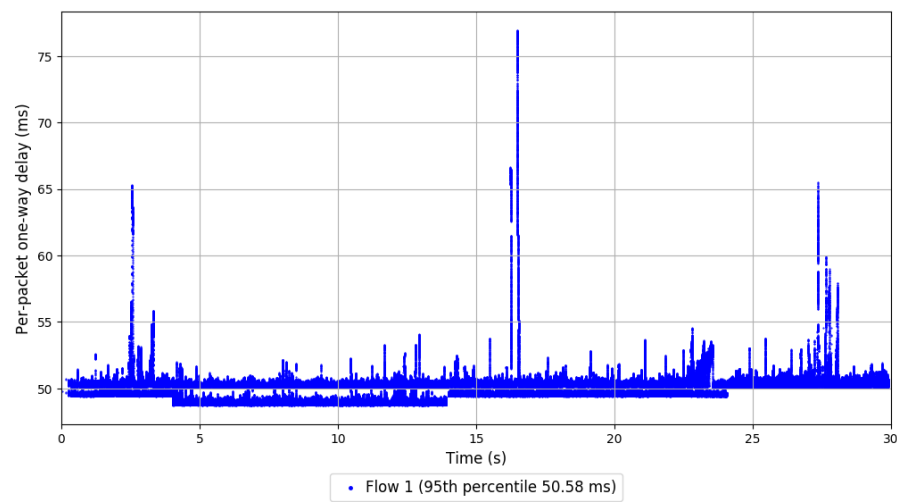
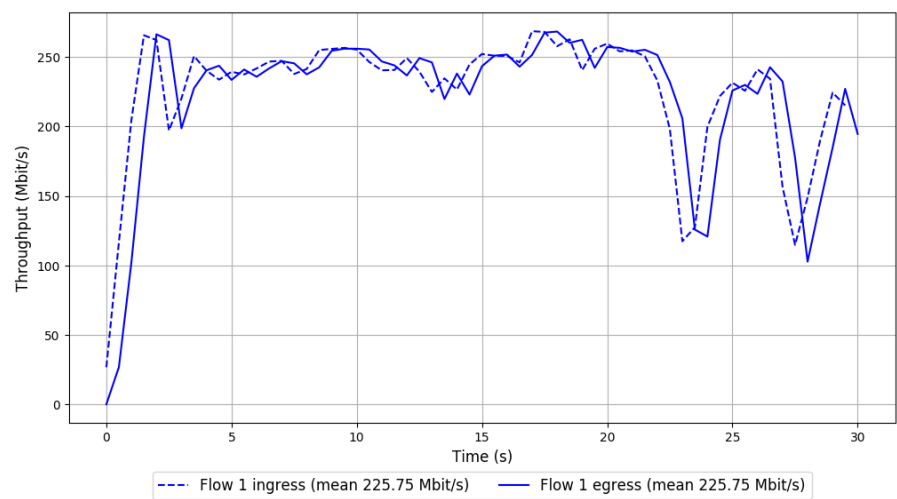
-- Flow 1:

Average throughput: 225.75 Mbit/s

95th percentile per-packet one-way delay: 50.584 ms

Loss rate: 0.33%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-07-02 01:27:13

End at: 2018-07-02 01:27:43

Local clock offset: 0.14 ms

Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-07-02 03:38:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.55 Mbit/s

95th percentile per-packet one-way delay: 51.148 ms

Loss rate: 0.26%

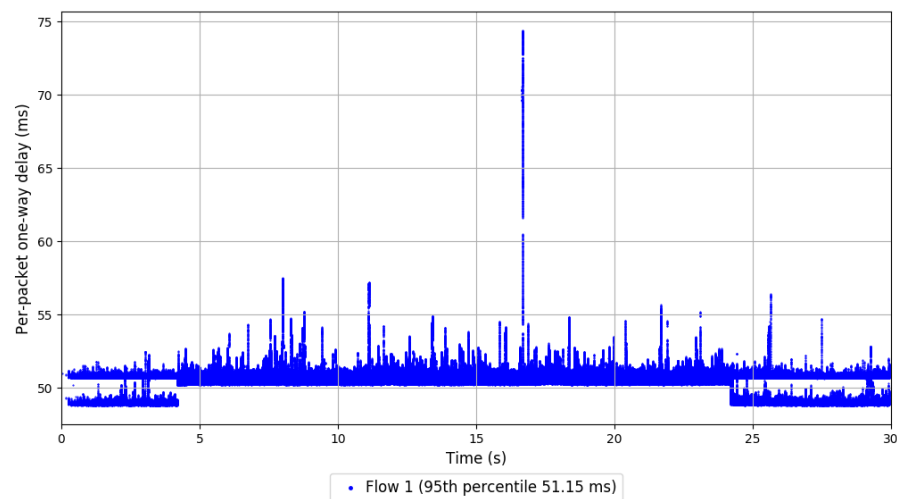
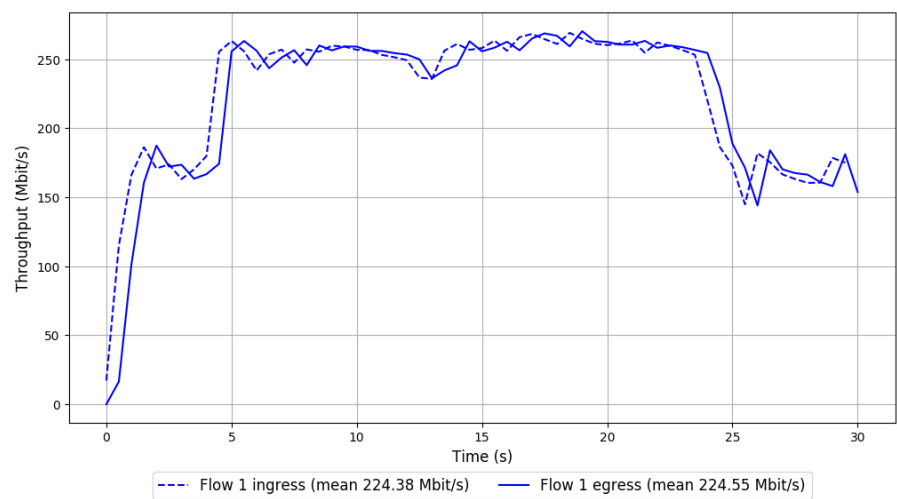
-- Flow 1:

Average throughput: 224.55 Mbit/s

95th percentile per-packet one-way delay: 51.148 ms

Loss rate: 0.26%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-07-02 01:48:30

End at: 2018-07-02 01:49:00

Local clock offset: 0.106 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-07-02 03:39:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 230.14 Mbit/s

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

Loss rate: 0.32%

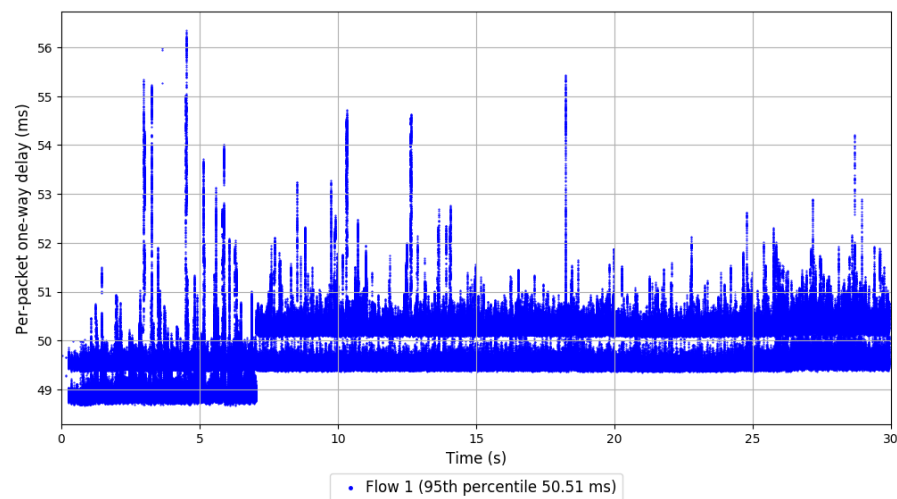
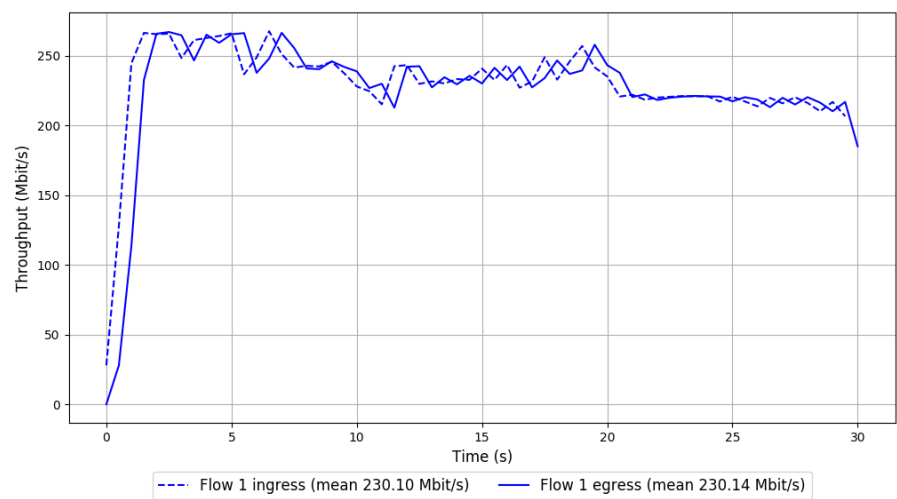
-- Flow 1:

Average throughput: 230.14 Mbit/s

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

Loss rate: 0.32%

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

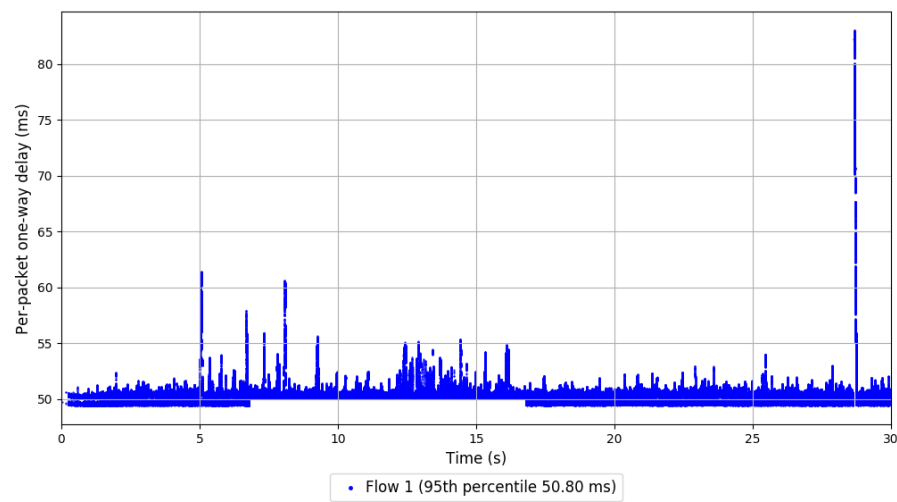
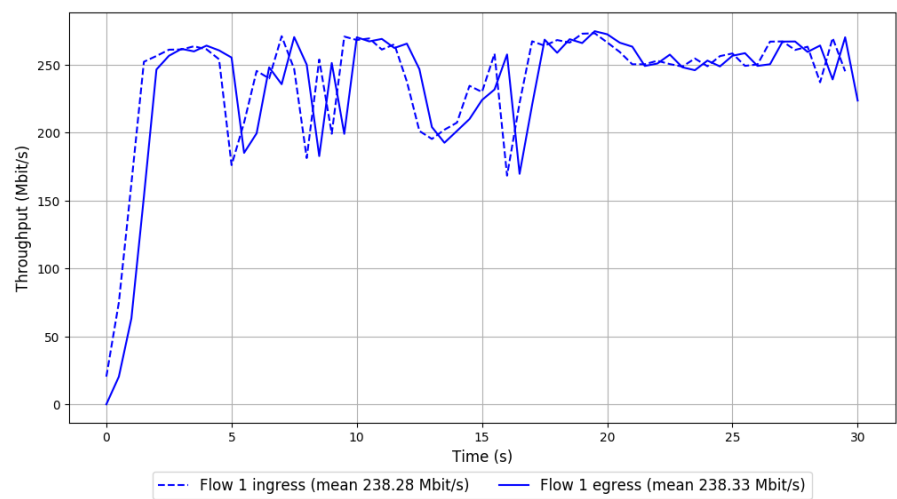


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-07-02 02:09:30
End at: 2018-07-02 02:10:01
Local clock offset: 0.112 ms
Remote clock offset: 0.021 ms

# Below is generated by plot.py at 2018-07-02 03:40:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 238.33 Mbit/s
95th percentile per-packet one-way delay: 50.798 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 238.33 Mbit/s
95th percentile per-packet one-way delay: 50.798 ms
Loss rate: 0.32%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-07-01 23:07:48

End at: 2018-07-01 23:08:18

Local clock offset: 0.073 ms

Remote clock offset: 0.026 ms

Below is generated by plot.py at 2018-07-02 03:40:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.41 Mbit/s

95th percentile per-packet one-way delay: 51.675 ms

Loss rate: 0.37%

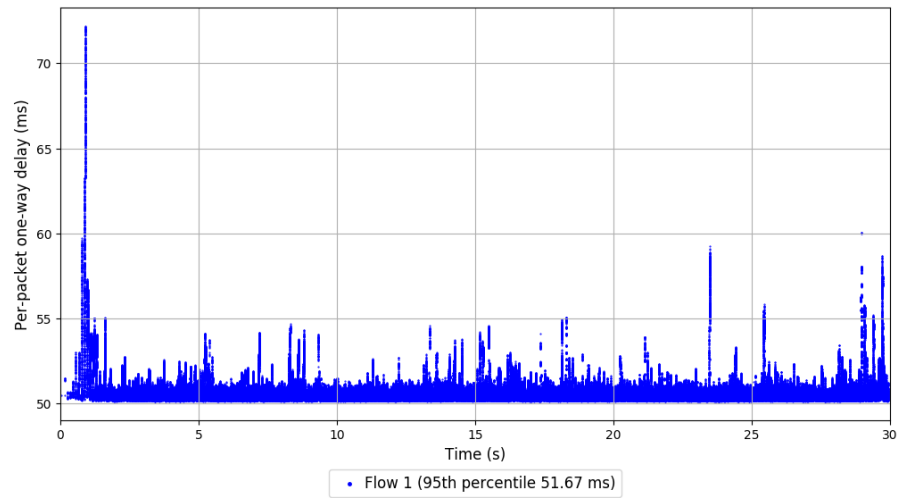
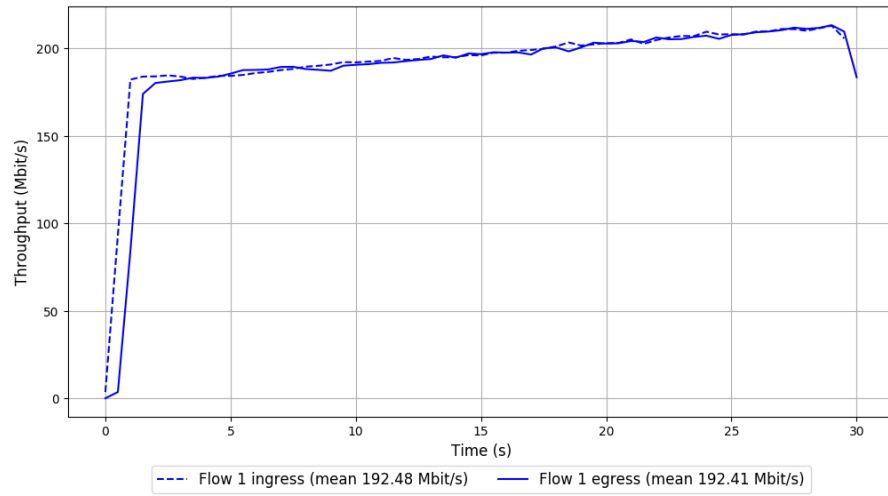
-- Flow 1:

Average throughput: 192.41 Mbit/s

95th percentile per-packet one-way delay: 51.675 ms

Loss rate: 0.37%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-07-01 23:28:38

End at: 2018-07-01 23:29:08

Local clock offset: -0.309 ms

Remote clock offset: 0.02 ms

Below is generated by plot.py at 2018-07-02 03:40:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 136.45 Mbit/s

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

Loss rate: 0.31%

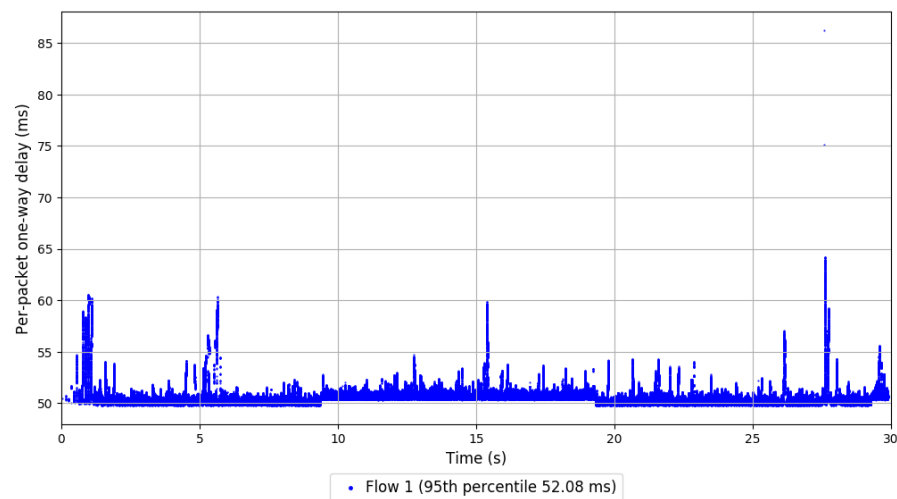
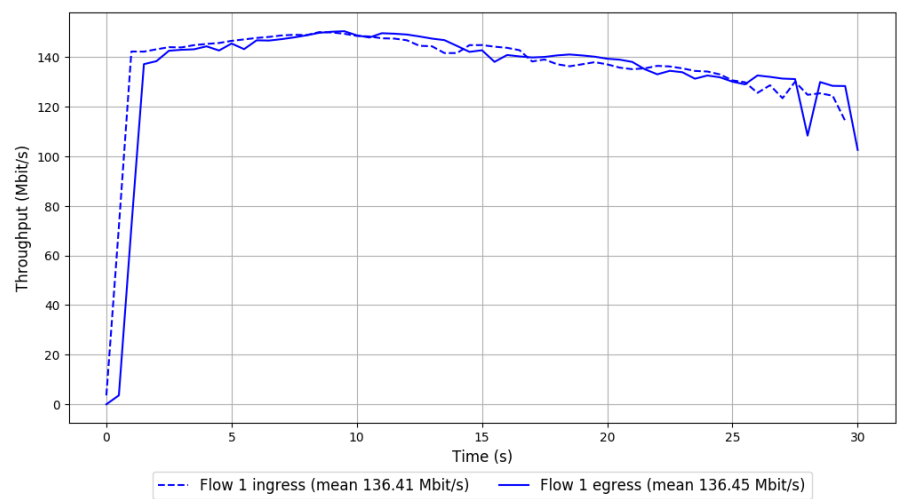
-- Flow 1:

Average throughput: 136.45 Mbit/s

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

Loss rate: 0.31%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-07-01 23:49:39

End at: 2018-07-01 23:50:09

Local clock offset: 0.084 ms

Remote clock offset: 0.089 ms

Below is generated by plot.py at 2018-07-02 03:40:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.97 Mbit/s

95th percentile per-packet one-way delay: 51.977 ms

Loss rate: 0.33%

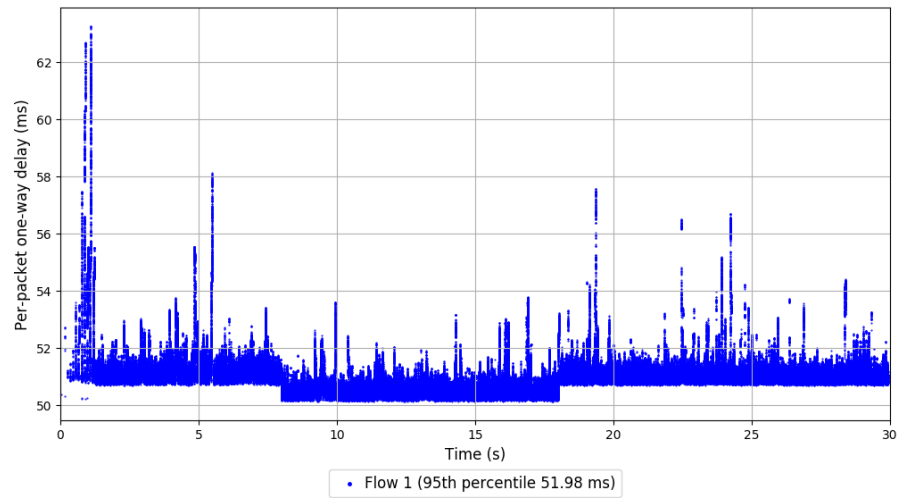
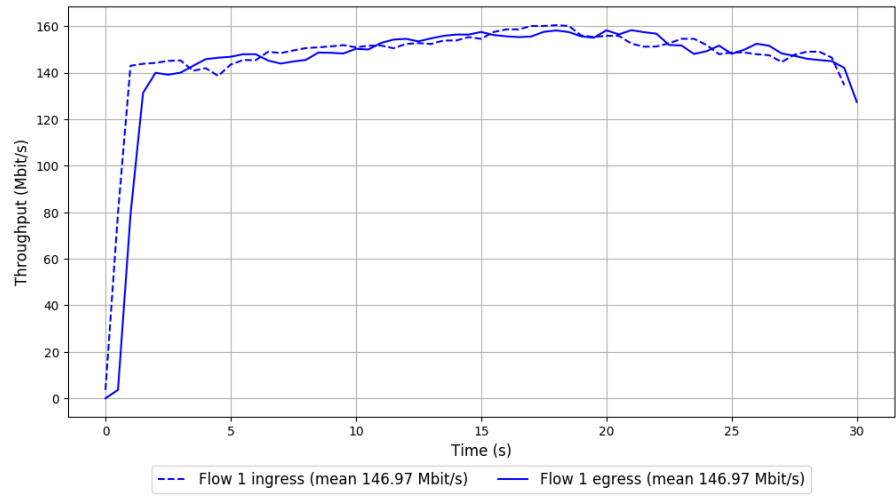
-- Flow 1:

Average throughput: 146.97 Mbit/s

95th percentile per-packet one-way delay: 51.977 ms

Loss rate: 0.33%

Run 3: Report of TCP Vegas — Data Link

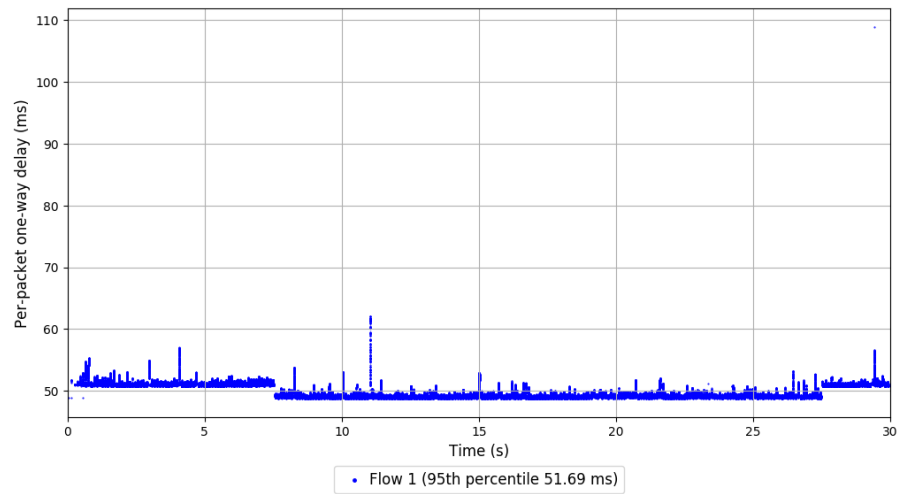
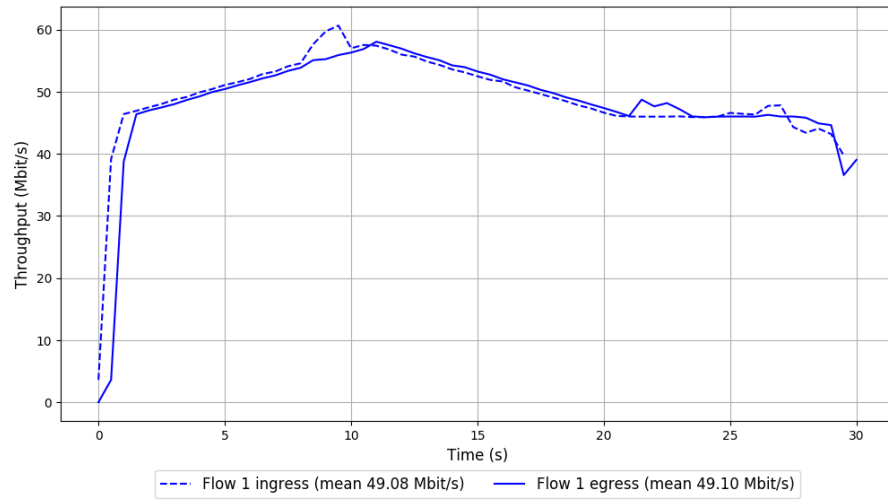


Run 4: Statistics of TCP Vegas

Start at: 2018-07-02 00:10:49
End at: 2018-07-02 00:11:19
Local clock offset: 0.056 ms
Remote clock offset: -0.047 ms

Below is generated by plot.py at 2018-07-02 03:40:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 49.10 Mbit/s
95th percentile per-packet one-way delay: 51.686 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 49.10 Mbit/s
95th percentile per-packet one-way delay: 51.686 ms
Loss rate: 0.29%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-07-02 00:31:52

End at: 2018-07-02 00:32:22

Local clock offset: 0.058 ms

Remote clock offset: -0.119 ms

Below is generated by plot.py at 2018-07-02 03:40:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.59 Mbit/s

95th percentile per-packet one-way delay: 52.910 ms

Loss rate: 0.32%

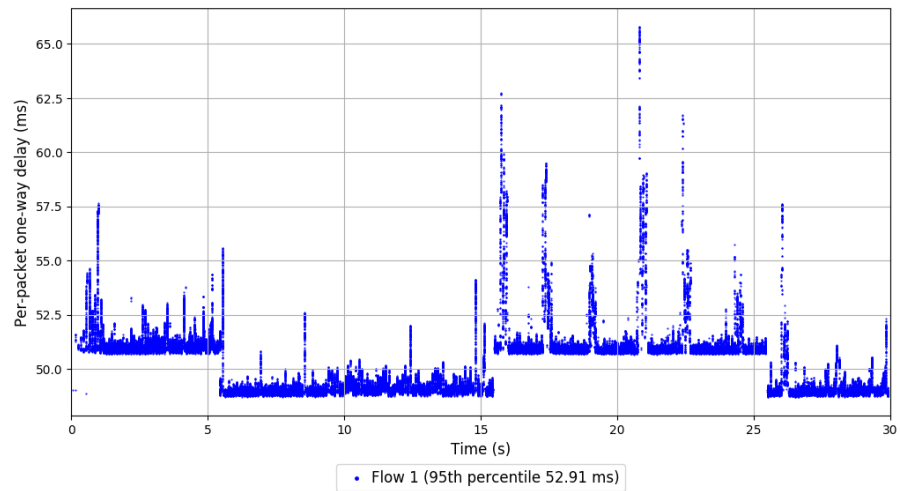
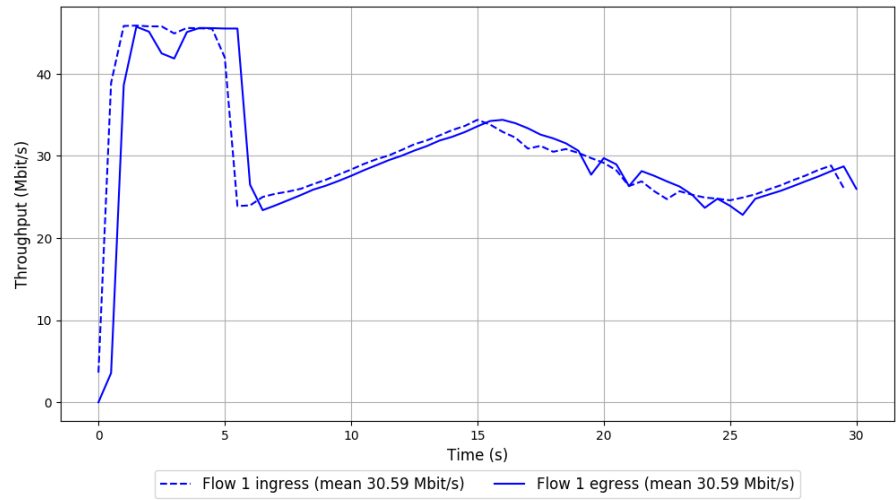
-- Flow 1:

Average throughput: 30.59 Mbit/s

95th percentile per-packet one-way delay: 52.910 ms

Loss rate: 0.32%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-07-02 00:52:29

End at: 2018-07-02 00:52:59

Local clock offset: 0.089 ms

Remote clock offset: 0.083 ms

Below is generated by plot.py at 2018-07-02 03:40:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.51 Mbit/s

95th percentile per-packet one-way delay: 51.878 ms

Loss rate: 0.32%

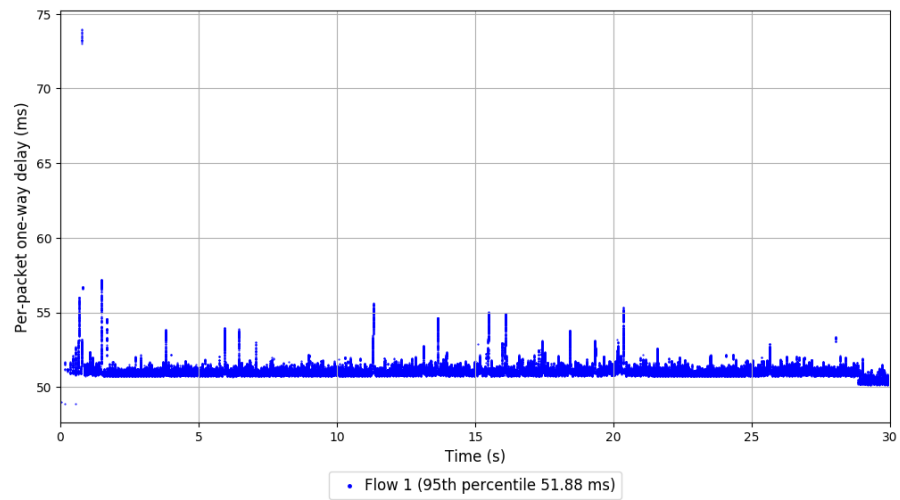
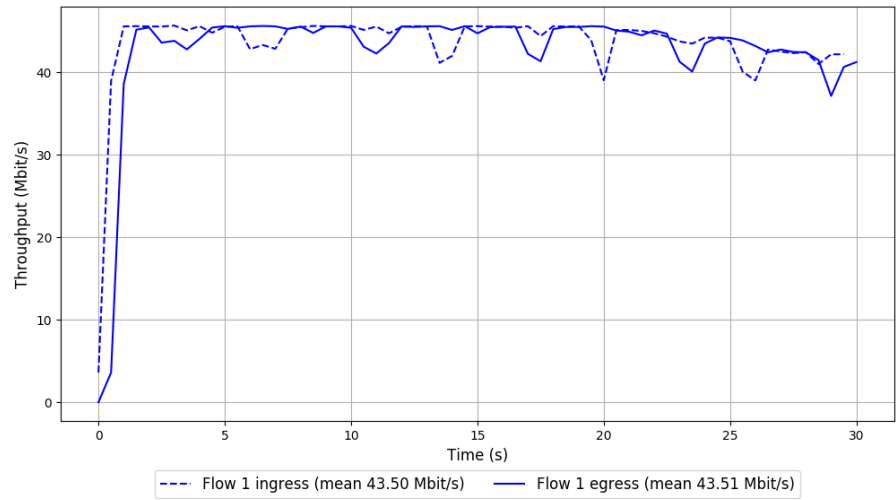
-- Flow 1:

Average throughput: 43.51 Mbit/s

95th percentile per-packet one-way delay: 51.878 ms

Loss rate: 0.32%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-07-02 01:13:29

End at: 2018-07-02 01:13:59

Local clock offset: -0.314 ms

Remote clock offset: 0.182 ms

Below is generated by plot.py at 2018-07-02 03:40:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.60 Mbit/s

95th percentile per-packet one-way delay: 61.091 ms

Loss rate: 0.26%

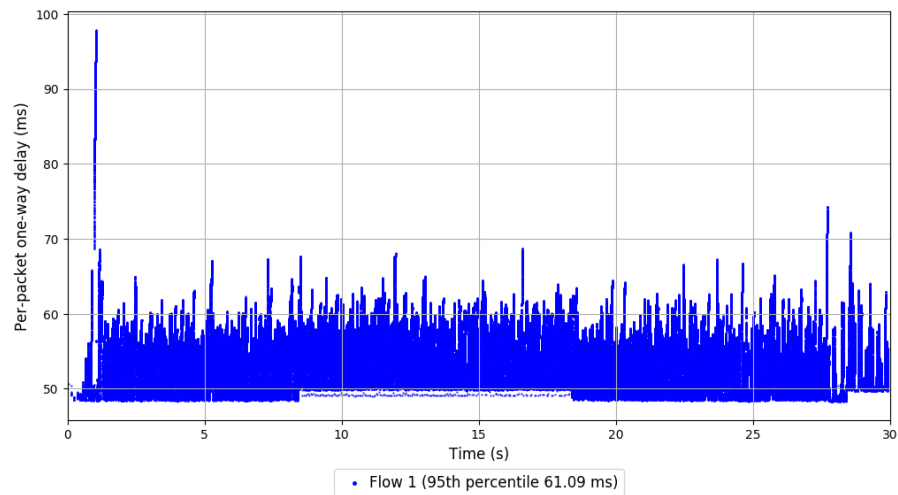
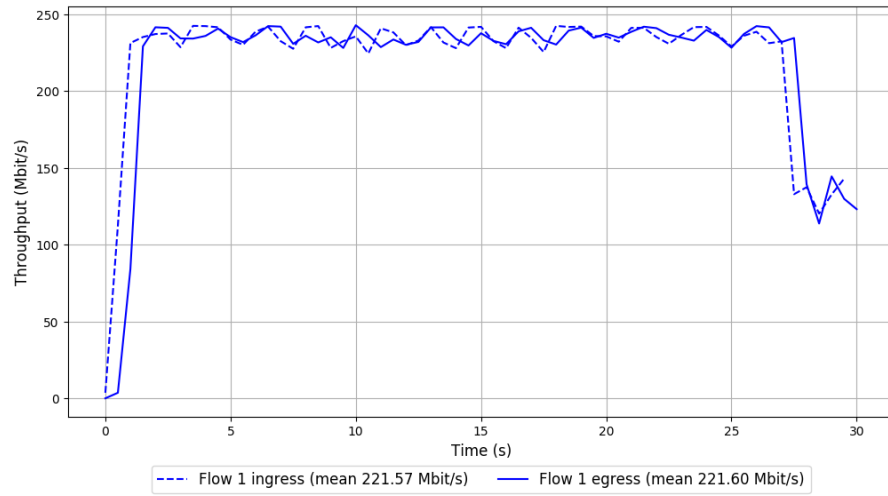
-- Flow 1:

Average throughput: 221.60 Mbit/s

95th percentile per-packet one-way delay: 61.091 ms

Loss rate: 0.26%

Run 7: Report of TCP Vegas — Data Link

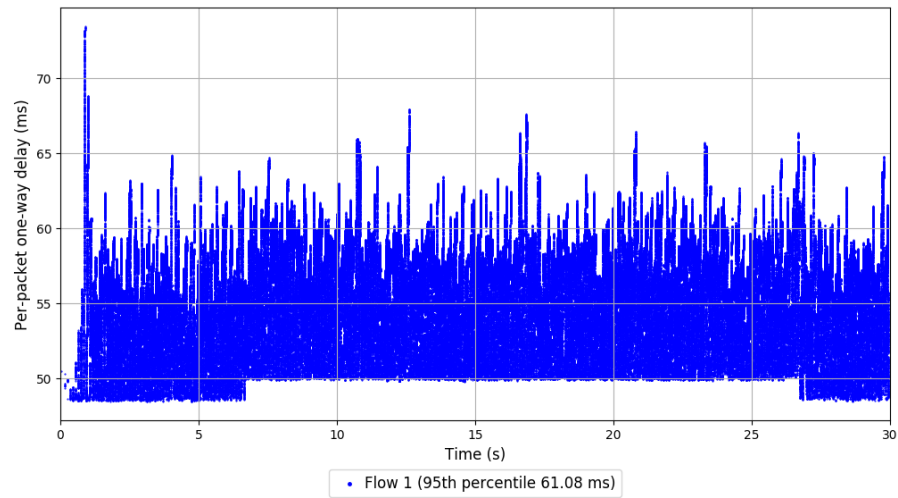
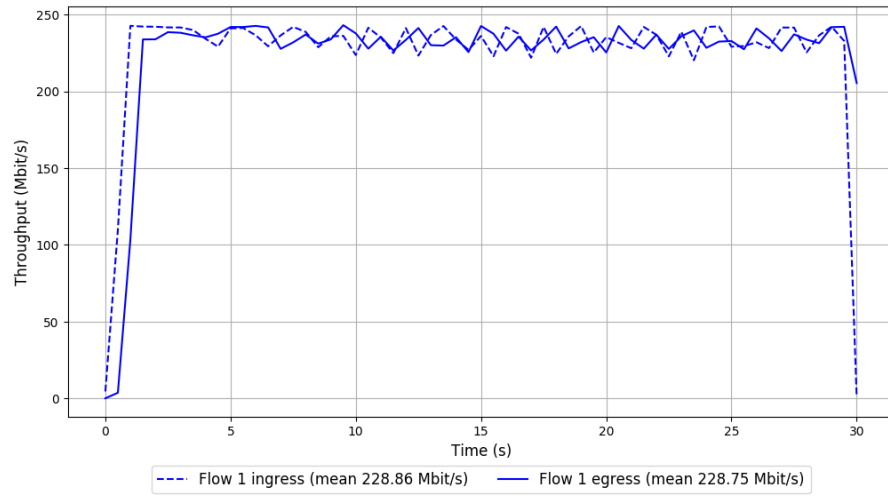


Run 8: Statistics of TCP Vegas

Start at: 2018-07-02 01:34:30
End at: 2018-07-02 01:35:00
Local clock offset: -0.307 ms
Remote clock offset: -0.032 ms

Below is generated by plot.py at 2018-07-02 03:40:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 228.75 Mbit/s
95th percentile per-packet one-way delay: 61.077 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 228.75 Mbit/s
95th percentile per-packet one-way delay: 61.077 ms
Loss rate: 0.38%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-07-02 01:55:47

End at: 2018-07-02 01:56:17

Local clock offset: 0.074 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2018-07-02 03:40:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.21 Mbit/s

95th percentile per-packet one-way delay: 51.334 ms

Loss rate: 0.32%

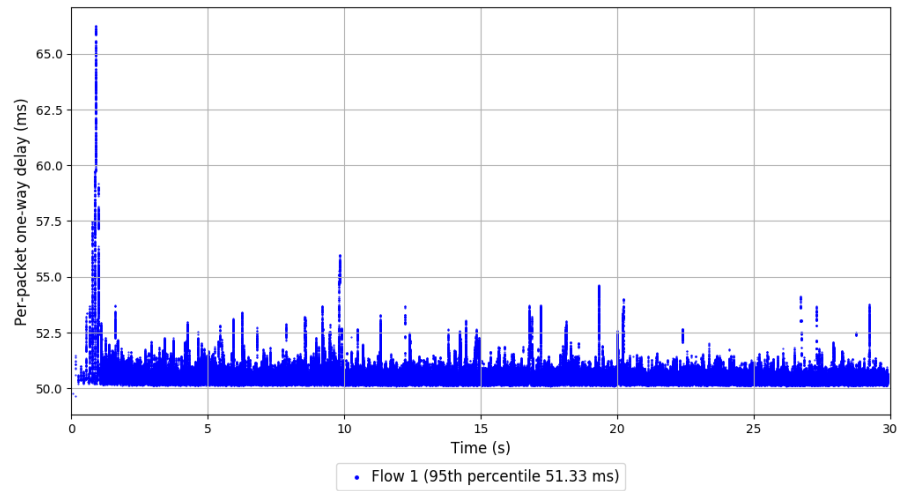
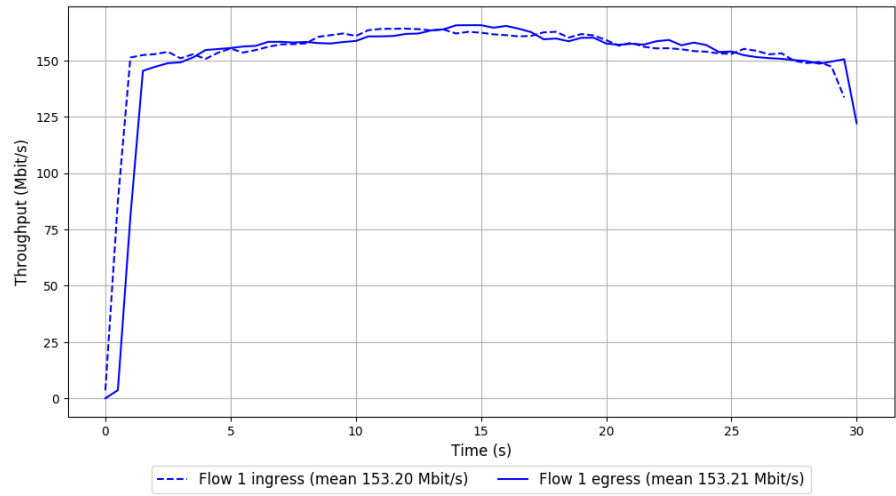
-- Flow 1:

Average throughput: 153.21 Mbit/s

95th percentile per-packet one-way delay: 51.334 ms

Loss rate: 0.32%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-07-02 02:16:47

End at: 2018-07-02 02:17:17

Local clock offset: 0.134 ms

Remote clock offset: 0.011 ms

Below is generated by plot.py at 2018-07-02 03:40:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 121.19 Mbit/s

95th percentile per-packet one-way delay: 51.842 ms

Loss rate: 0.32%

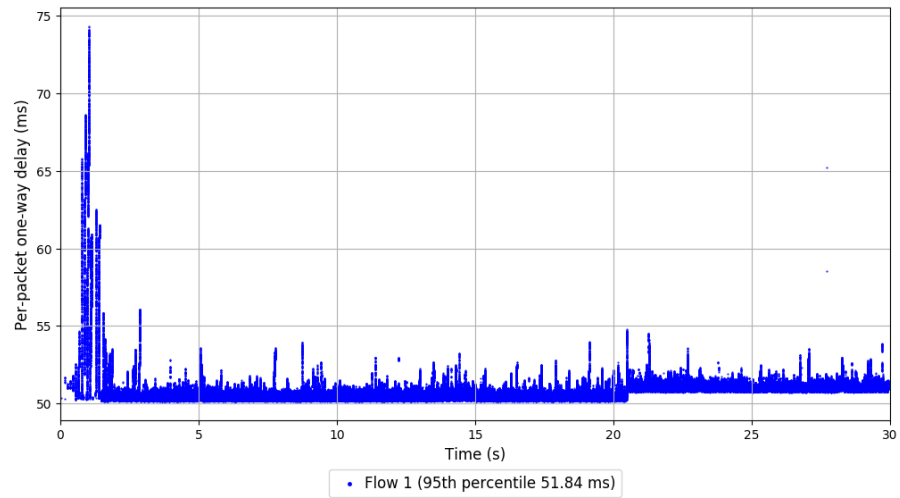
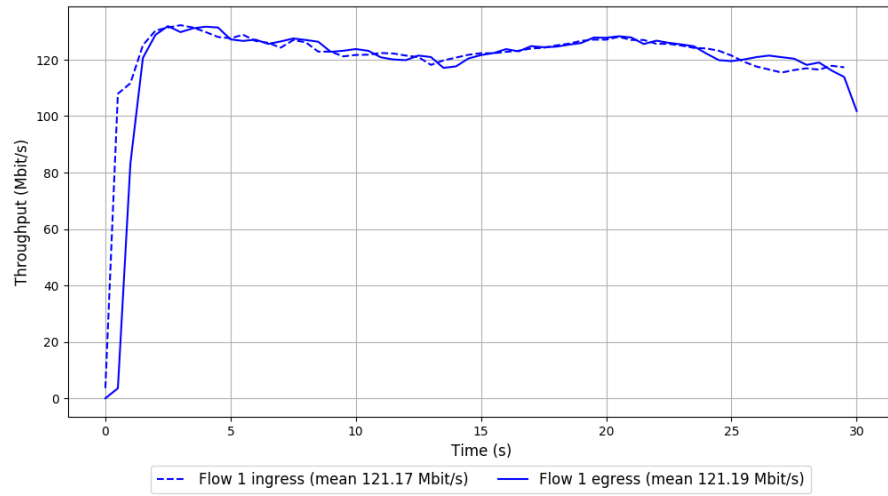
-- Flow 1:

Average throughput: 121.19 Mbit/s

95th percentile per-packet one-way delay: 51.842 ms

Loss rate: 0.32%

Run 10: Report of TCP Vegas — Data Link

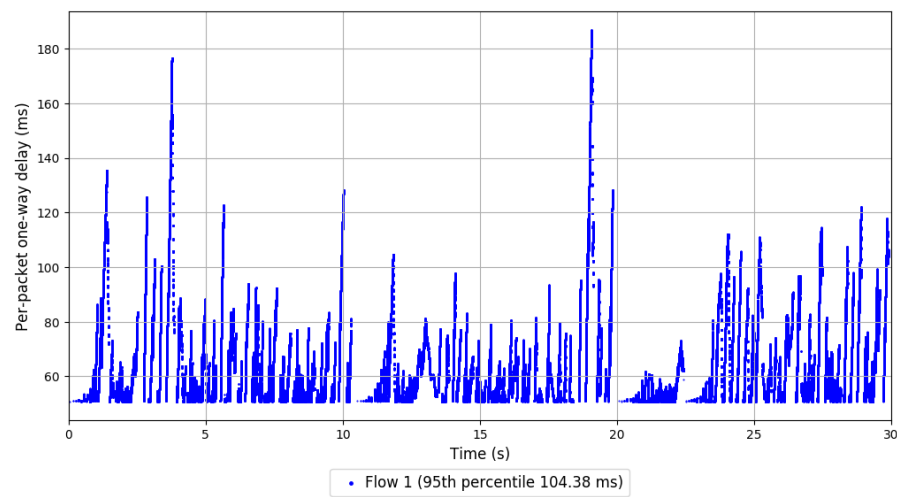
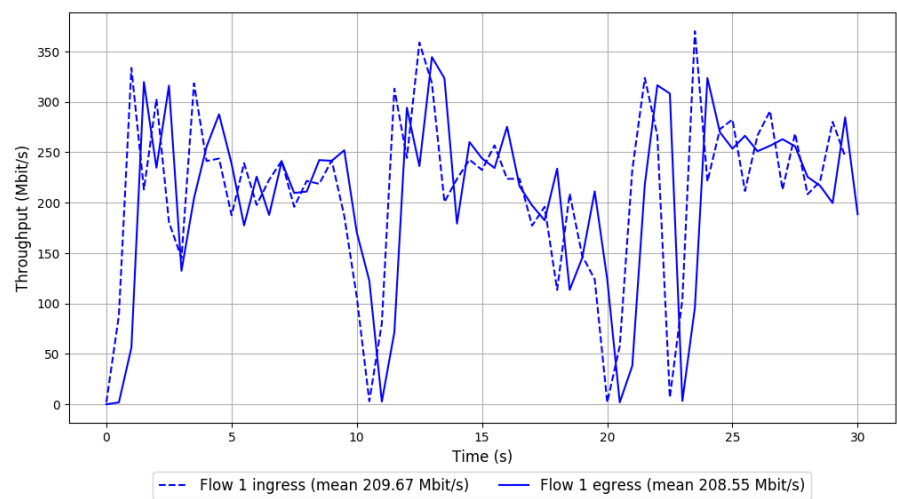


Run 1: Statistics of Verus

Start at: 2018-07-01 23:01:57
End at: 2018-07-01 23:02:27
Local clock offset: 0.049 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-07-02 03:41:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 208.55 Mbit/s
95th percentile per-packet one-way delay: 104.378 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 208.55 Mbit/s
95th percentile per-packet one-way delay: 104.378 ms
Loss rate: 0.87%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-07-01 23:22:43

End at: 2018-07-01 23:23:13

Local clock offset: 0.452 ms

Remote clock offset: 0.017 ms

Below is generated by plot.py at 2018-07-02 03:43:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 260.24 Mbit/s

95th percentile per-packet one-way delay: 133.390 ms

Loss rate: 0.12%

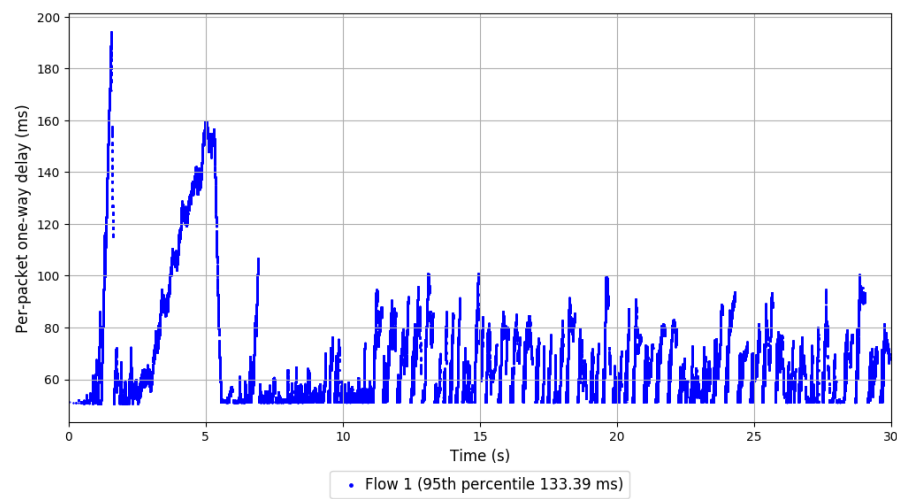
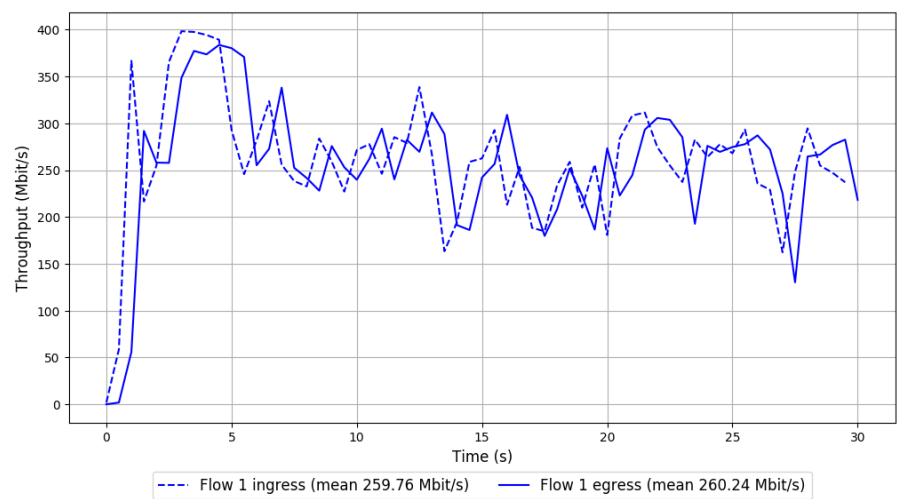
-- Flow 1:

Average throughput: 260.24 Mbit/s

95th percentile per-packet one-way delay: 133.390 ms

Loss rate: 0.12%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-07-01 23:43:47

End at: 2018-07-01 23:44:17

Local clock offset: -0.294 ms

Remote clock offset: 0.104 ms

Below is generated by plot.py at 2018-07-02 03:43:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.78 Mbit/s

95th percentile per-packet one-way delay: 111.076 ms

Loss rate: 0.08%

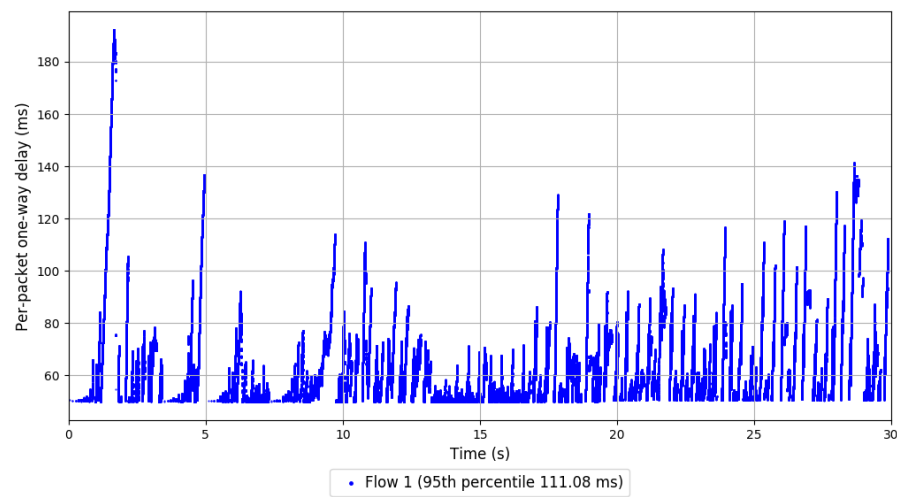
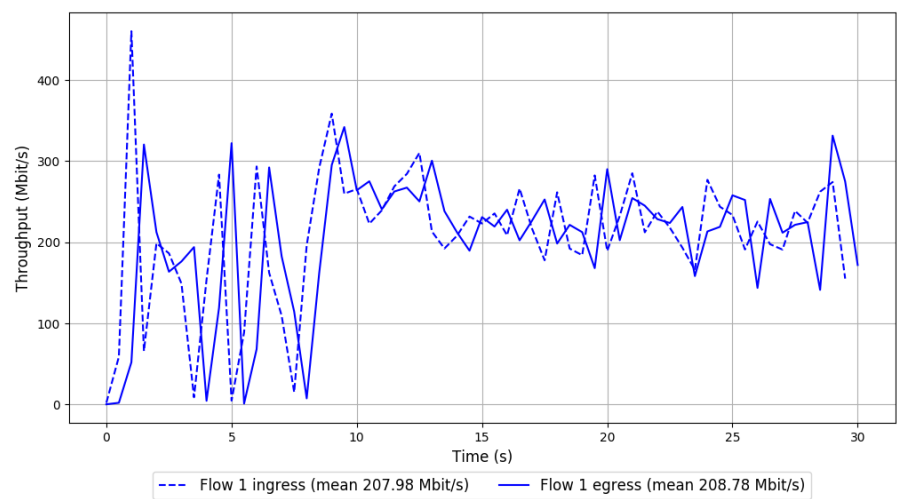
-- Flow 1:

Average throughput: 208.78 Mbit/s

95th percentile per-packet one-way delay: 111.076 ms

Loss rate: 0.08%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-07-02 00:04:59

End at: 2018-07-02 00:05:29

Local clock offset: 0.061 ms

Remote clock offset: 0.013 ms

Below is generated by plot.py at 2018-07-02 03:43:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.85 Mbit/s

95th percentile per-packet one-way delay: 85.329 ms

Loss rate: 0.56%

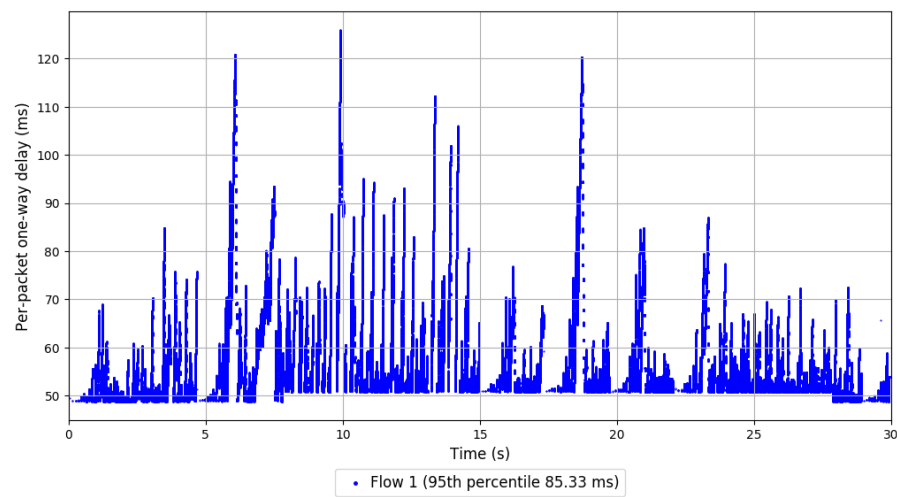
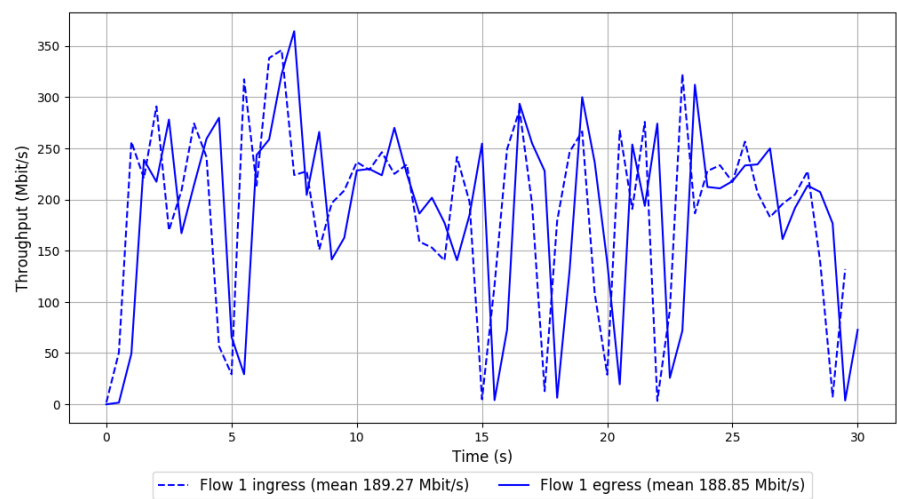
-- Flow 1:

Average throughput: 188.85 Mbit/s

95th percentile per-packet one-way delay: 85.329 ms

Loss rate: 0.56%

Run 4: Report of Verus — Data Link

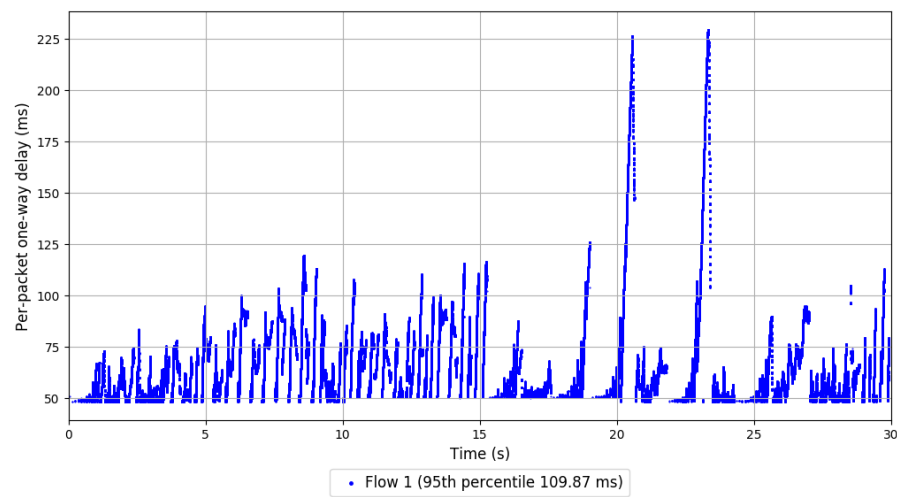
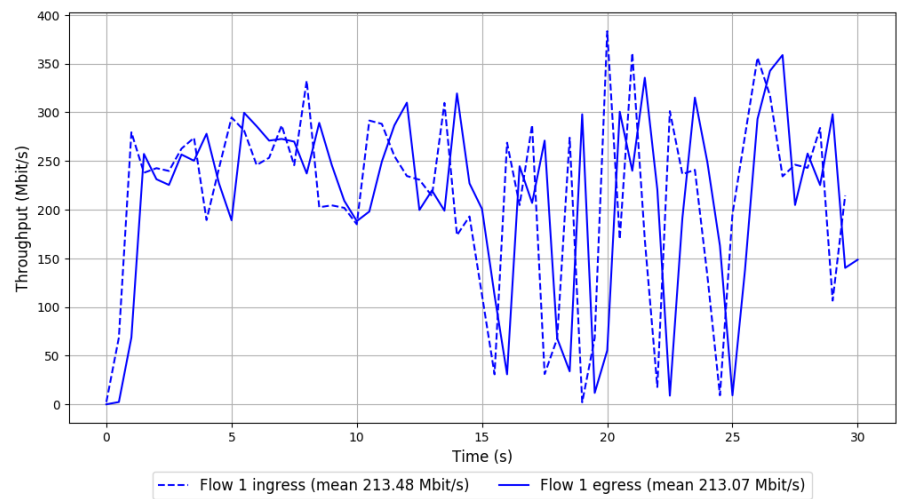


Run 5: Statistics of Verus

Start at: 2018-07-02 00:25:57
End at: 2018-07-02 00:26:27
Local clock offset: -0.334 ms
Remote clock offset: -0.127 ms

Below is generated by plot.py at 2018-07-02 03:43:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 213.07 Mbit/s
95th percentile per-packet one-way delay: 109.874 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 213.07 Mbit/s
95th percentile per-packet one-way delay: 109.874 ms
Loss rate: 0.53%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-07-02 00:46:38

End at: 2018-07-02 00:47:08

Local clock offset: 0.078 ms

Remote clock offset: 0.047 ms

Below is generated by plot.py at 2018-07-02 03:43:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.87 Mbit/s

95th percentile per-packet one-way delay: 97.670 ms

Loss rate: 0.23%

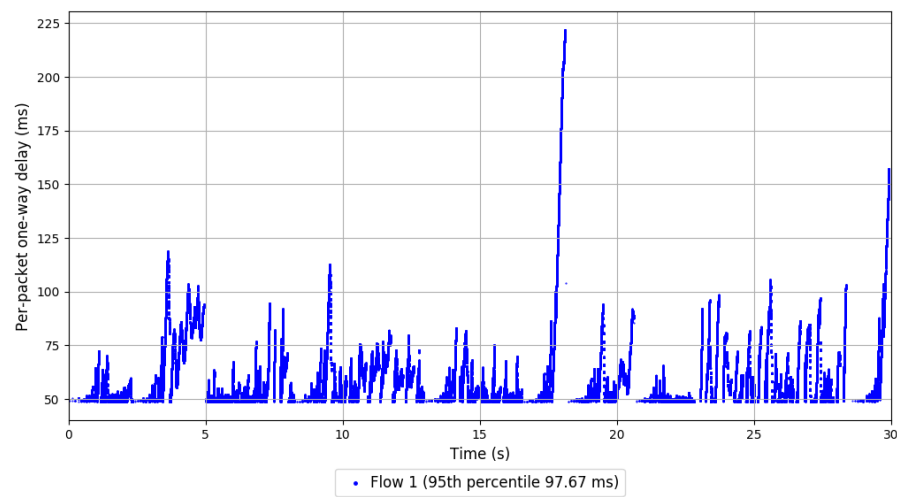
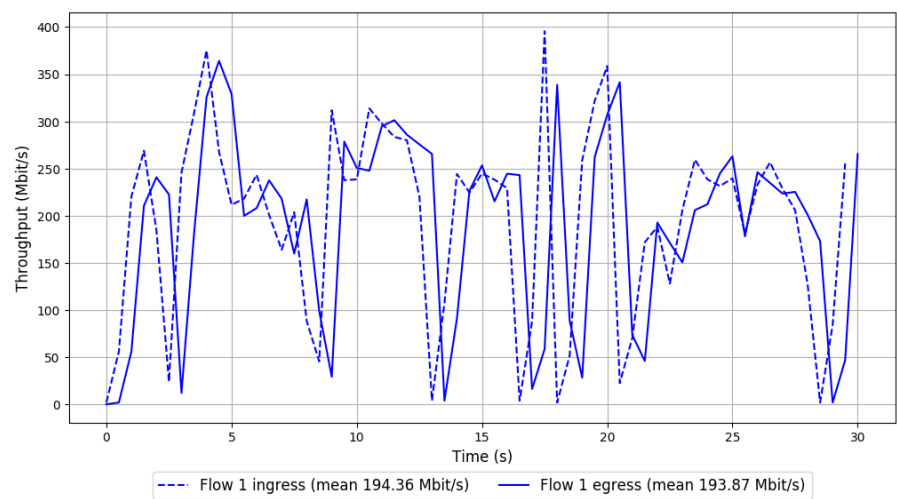
-- Flow 1:

Average throughput: 193.87 Mbit/s

95th percentile per-packet one-way delay: 97.670 ms

Loss rate: 0.23%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-07-02 01:07:37

End at: 2018-07-02 01:08:07

Local clock offset: -0.261 ms

Remote clock offset: 0.173 ms

Below is generated by plot.py at 2018-07-02 03:44:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.94 Mbit/s

95th percentile per-packet one-way delay: 98.989 ms

Loss rate: 0.81%

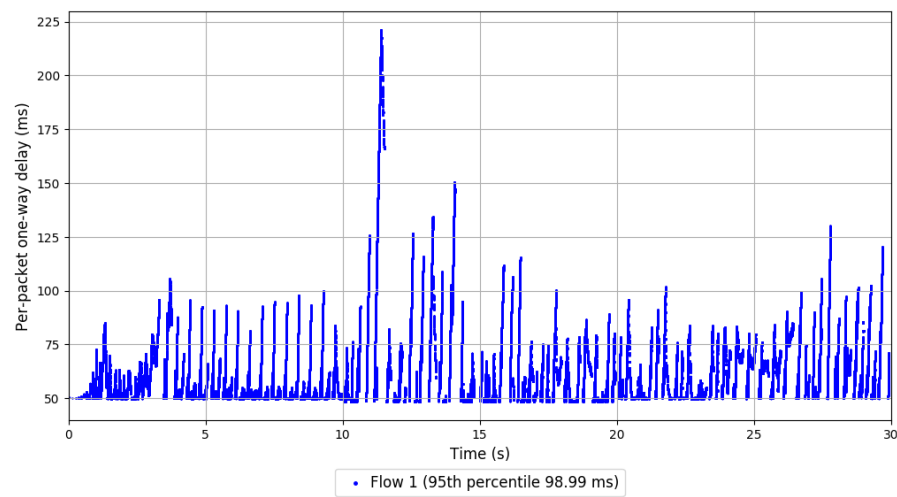
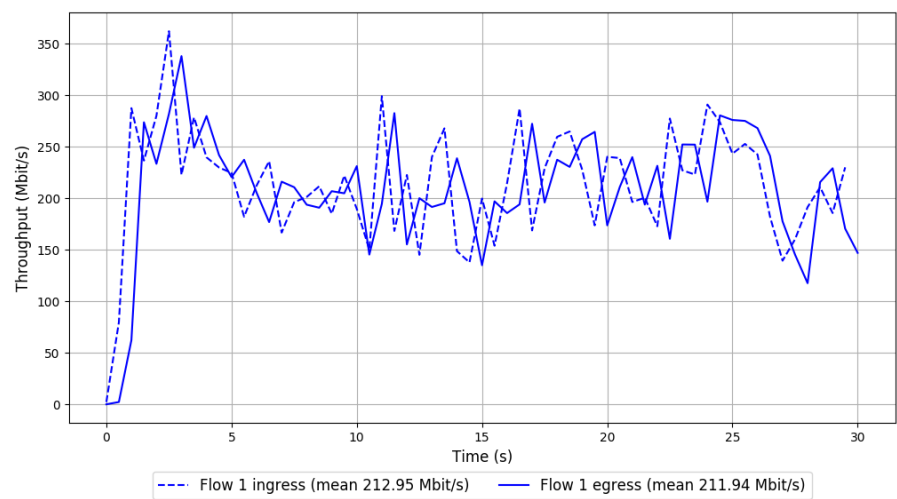
-- Flow 1:

Average throughput: 211.94 Mbit/s

95th percentile per-packet one-way delay: 98.989 ms

Loss rate: 0.81%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-07-02 01:28:36

End at: 2018-07-02 01:29:07

Local clock offset: 0.043 ms

Remote clock offset: 0.011 ms

Below is generated by plot.py at 2018-07-02 03:44:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 244.06 Mbit/s

95th percentile per-packet one-way delay: 104.802 ms

Loss rate: 0.48%

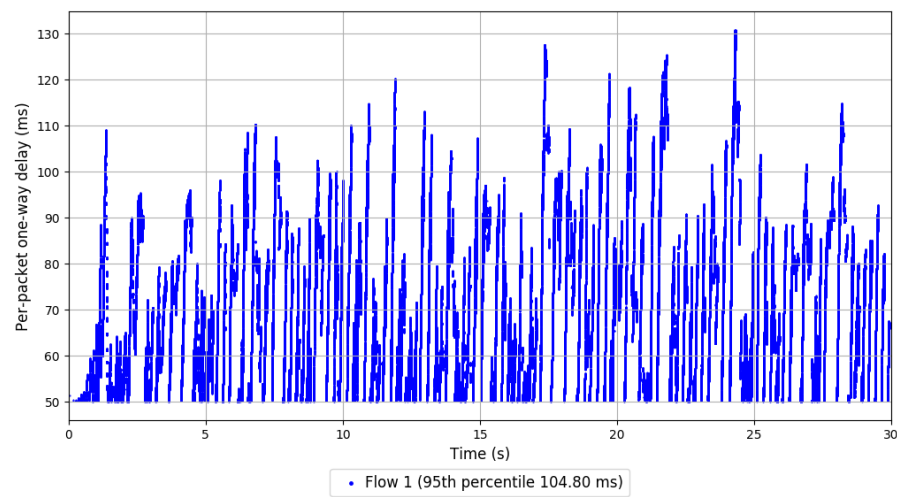
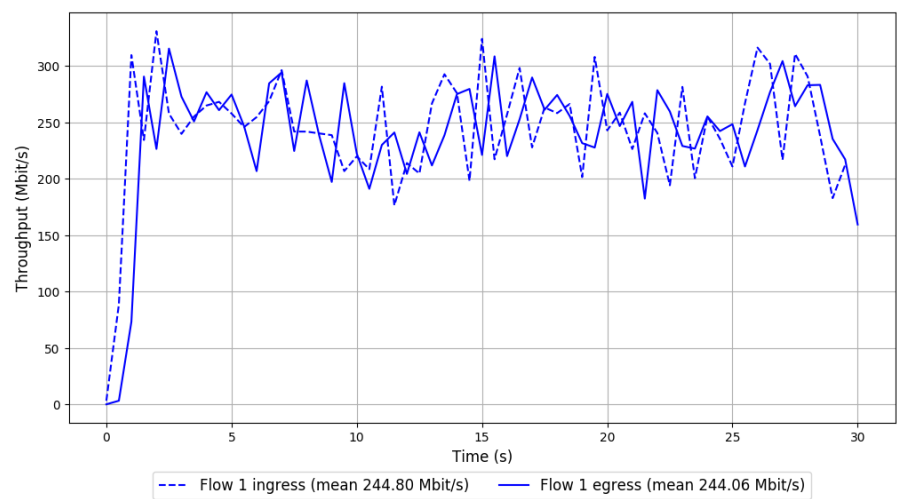
-- Flow 1:

Average throughput: 244.06 Mbit/s

95th percentile per-packet one-way delay: 104.802 ms

Loss rate: 0.48%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-07-02 01:49:54

End at: 2018-07-02 01:50:24

Local clock offset: 0.495 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2018-07-02 03:45:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.22 Mbit/s

95th percentile per-packet one-way delay: 95.335 ms

Loss rate: 0.64%

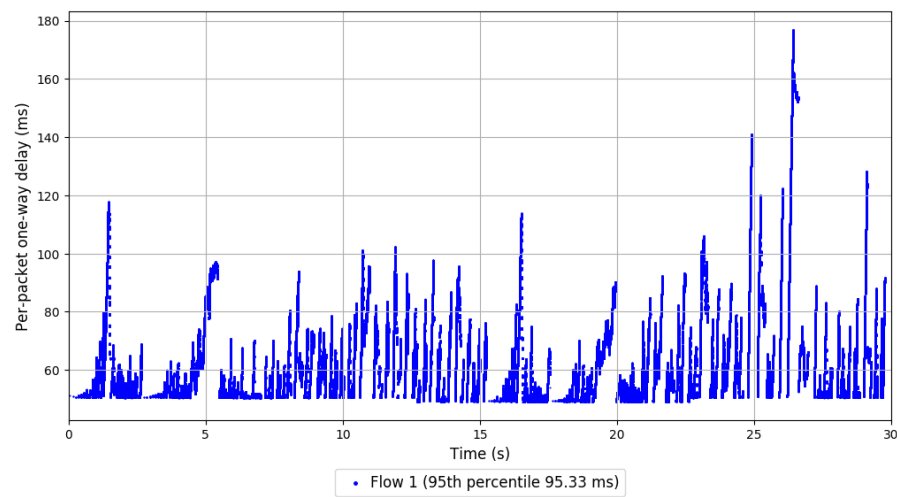
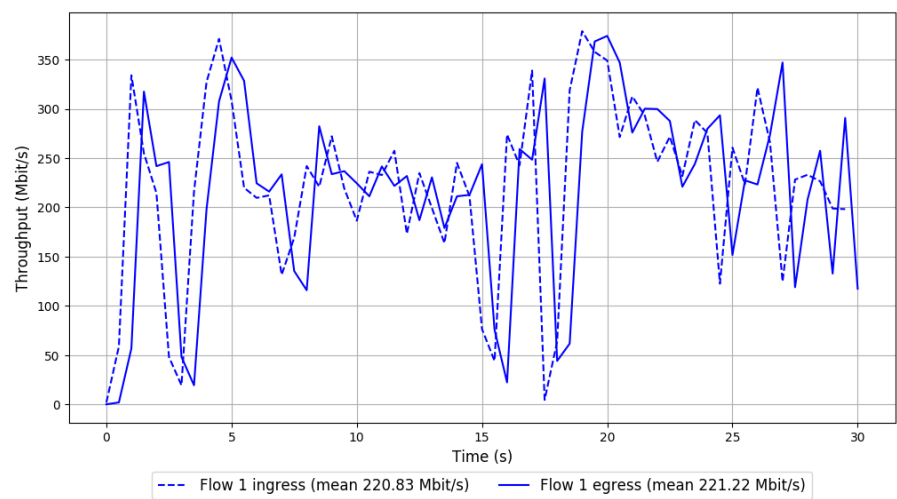
-- Flow 1:

Average throughput: 221.22 Mbit/s

95th percentile per-packet one-way delay: 95.335 ms

Loss rate: 0.64%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-07-02 02:10:56

End at: 2018-07-02 02:11:26

Local clock offset: 0.116 ms

Remote clock offset: 0.047 ms

Below is generated by plot.py at 2018-07-02 03:45:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.92 Mbit/s

95th percentile per-packet one-way delay: 158.954 ms

Loss rate: 1.21%

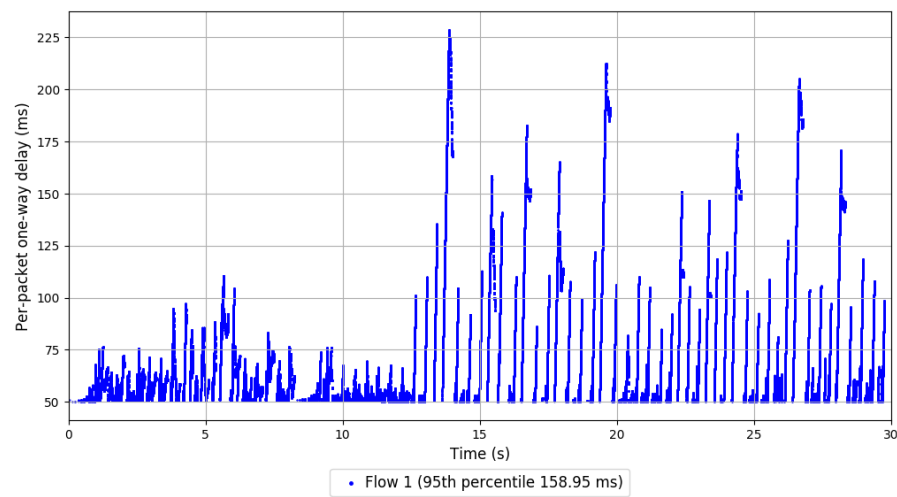
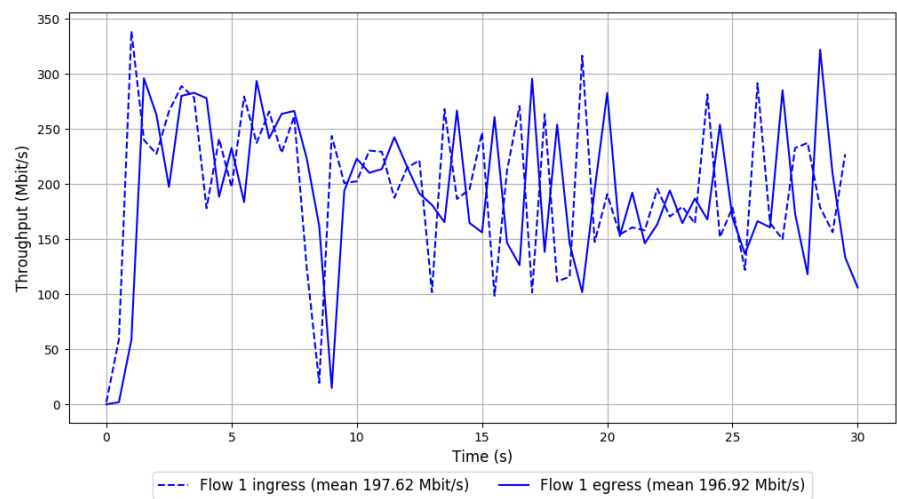
-- Flow 1:

Average throughput: 196.92 Mbit/s

95th percentile per-packet one-way delay: 158.954 ms

Loss rate: 1.21%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-07-01 23:12:48

End at: 2018-07-01 23:13:18

Local clock offset: 0.048 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2018-07-02 03:49:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 340.09 Mbit/s

95th percentile per-packet one-way delay: 51.083 ms

Loss rate: 0.42%

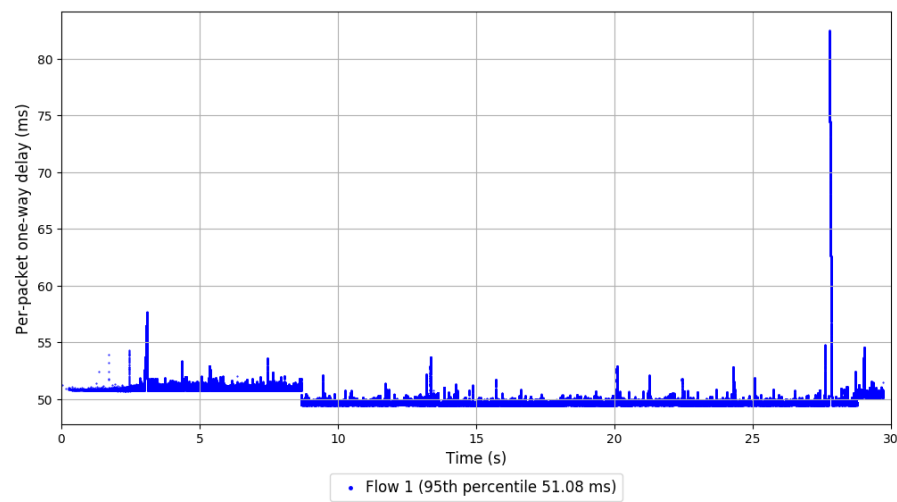
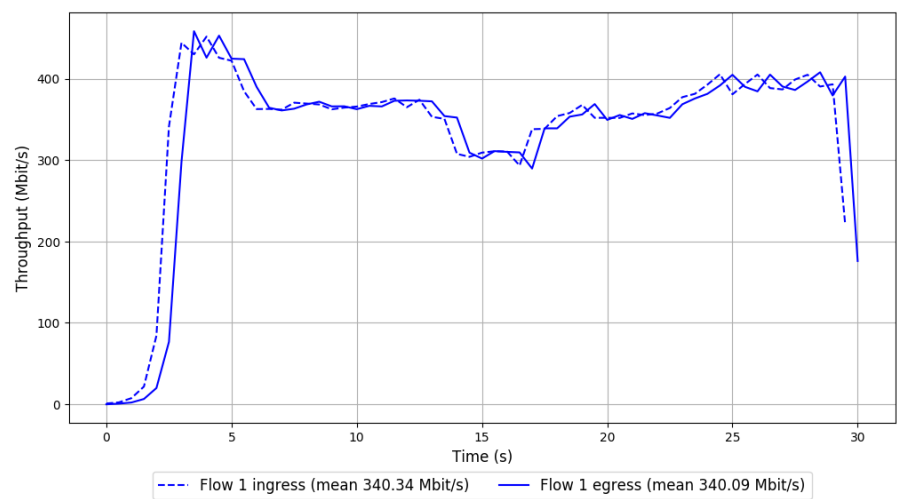
-- Flow 1:

Average throughput: 340.09 Mbit/s

95th percentile per-packet one-way delay: 51.083 ms

Loss rate: 0.42%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-07-01 23:33:32

End at: 2018-07-01 23:34:02

Local clock offset: 0.428 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2018-07-02 03:49:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 294.84 Mbit/s

95th percentile per-packet one-way delay: 51.812 ms

Loss rate: 0.38%

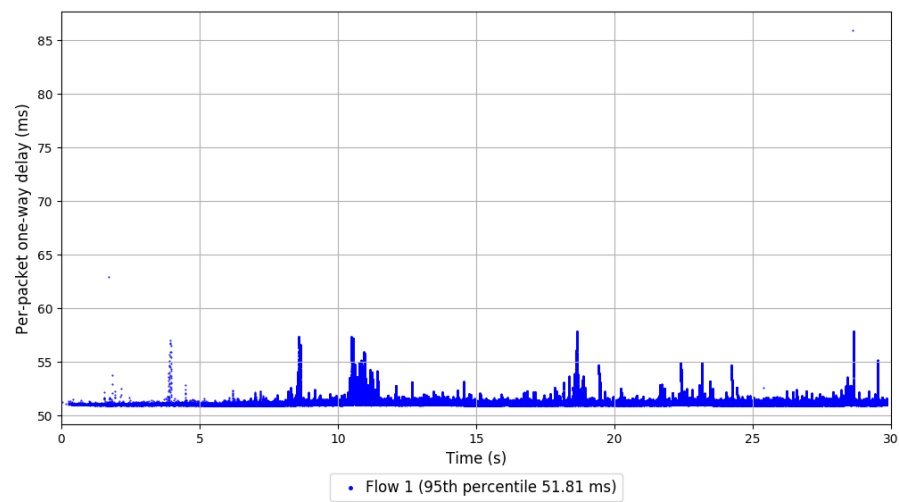
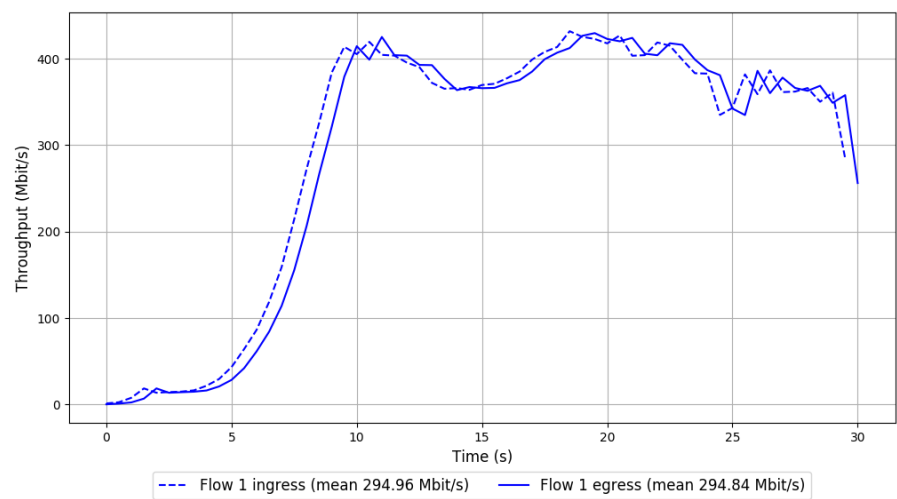
-- Flow 1:

Average throughput: 294.84 Mbit/s

95th percentile per-packet one-way delay: 51.812 ms

Loss rate: 0.38%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-07-01 23:54:37

End at: 2018-07-01 23:55:07

Local clock offset: 0.076 ms

Remote clock offset: 0.076 ms

Below is generated by plot.py at 2018-07-02 03:49:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 307.43 Mbit/s

95th percentile per-packet one-way delay: 51.073 ms

Loss rate: 0.32%

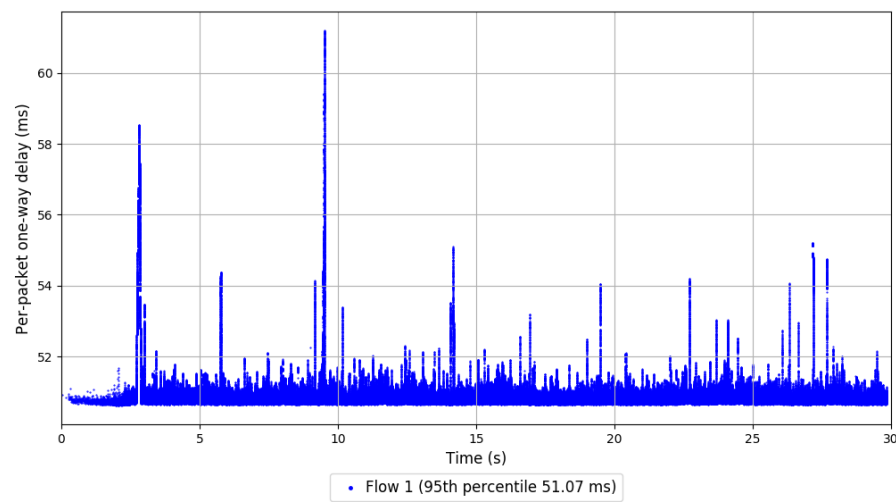
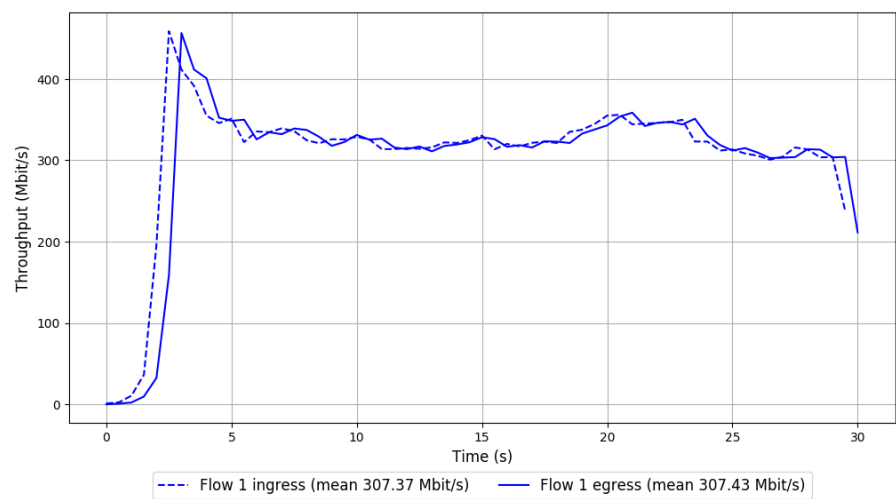
-- Flow 1:

Average throughput: 307.43 Mbit/s

95th percentile per-packet one-way delay: 51.073 ms

Loss rate: 0.32%

Run 3: Report of PCC-Vivace — Data Link

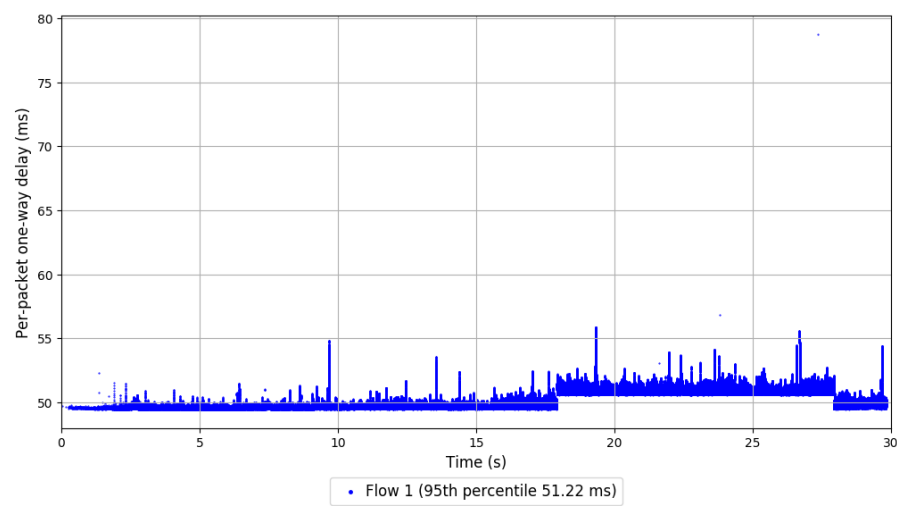
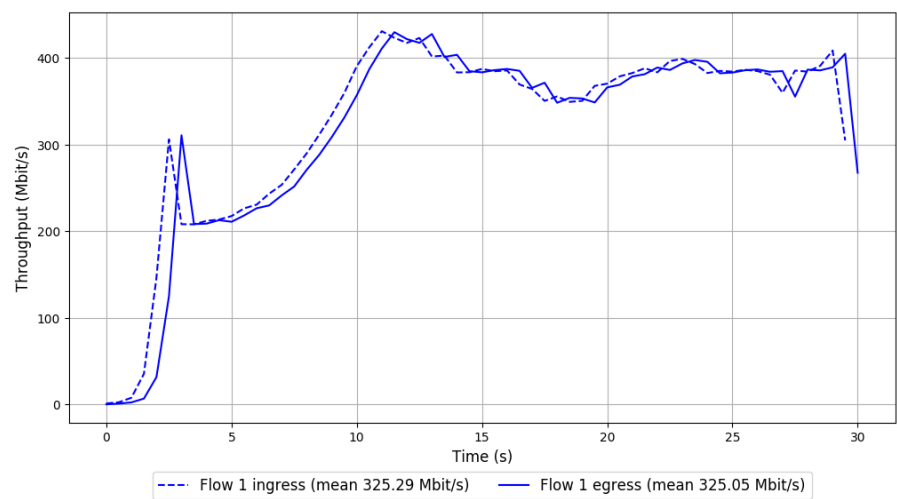


Run 4: Statistics of PCC-Vivace

Start at: 2018-07-02 00:15:39
End at: 2018-07-02 00:16:09
Local clock offset: 0.095 ms
Remote clock offset: -0.057 ms

Below is generated by plot.py at 2018-07-02 03:49:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 325.05 Mbit/s
95th percentile per-packet one-way delay: 51.220 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 325.05 Mbit/s
95th percentile per-packet one-way delay: 51.220 ms
Loss rate: 0.41%

Run 4: Report of PCC-Vivace — Data Link

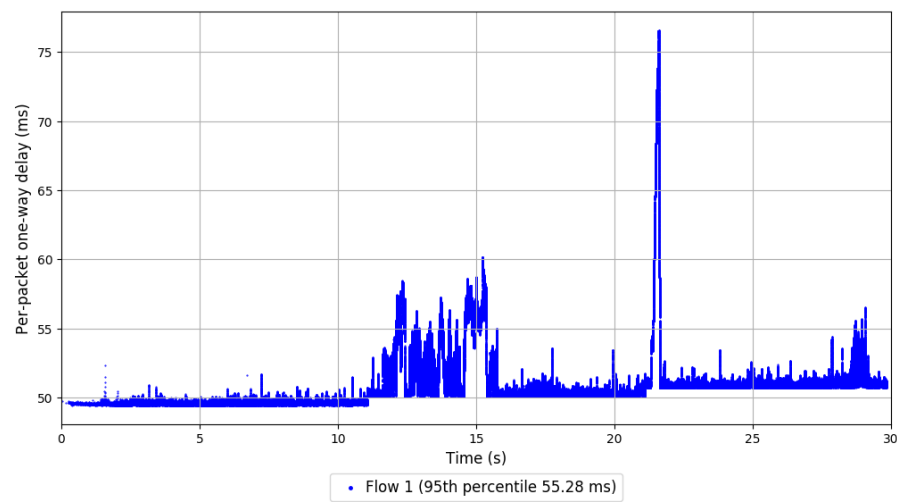
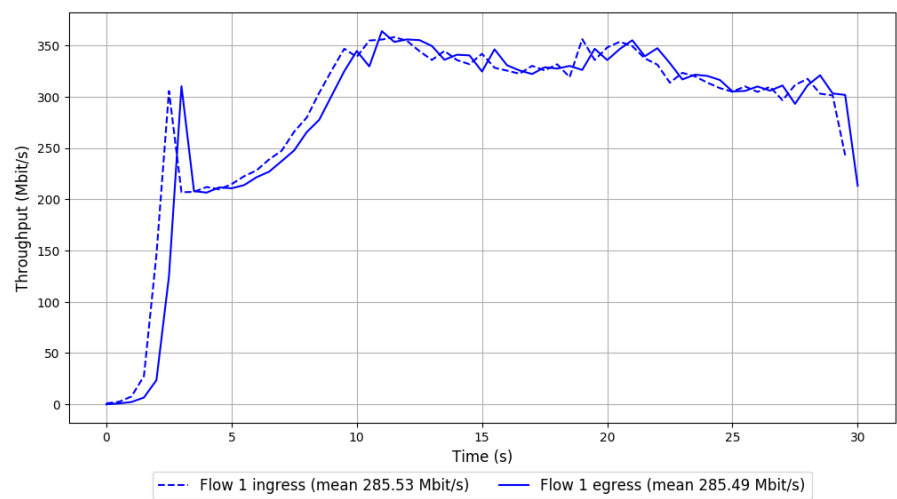


Run 5: Statistics of PCC-Vivace

Start at: 2018-07-02 00:36:36
End at: 2018-07-02 00:37:06
Local clock offset: 0.068 ms
Remote clock offset: -0.144 ms

Below is generated by plot.py at 2018-07-02 03:49:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 285.49 Mbit/s
95th percentile per-packet one-way delay: 55.279 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 285.49 Mbit/s
95th percentile per-packet one-way delay: 55.279 ms
Loss rate: 0.35%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-07-02 00:57:26

End at: 2018-07-02 00:57:56

Local clock offset: 0.097 ms

Remote clock offset: 0.068 ms

Below is generated by plot.py at 2018-07-02 03:49:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 269.80 Mbit/s

95th percentile per-packet one-way delay: 51.060 ms

Loss rate: 0.49%

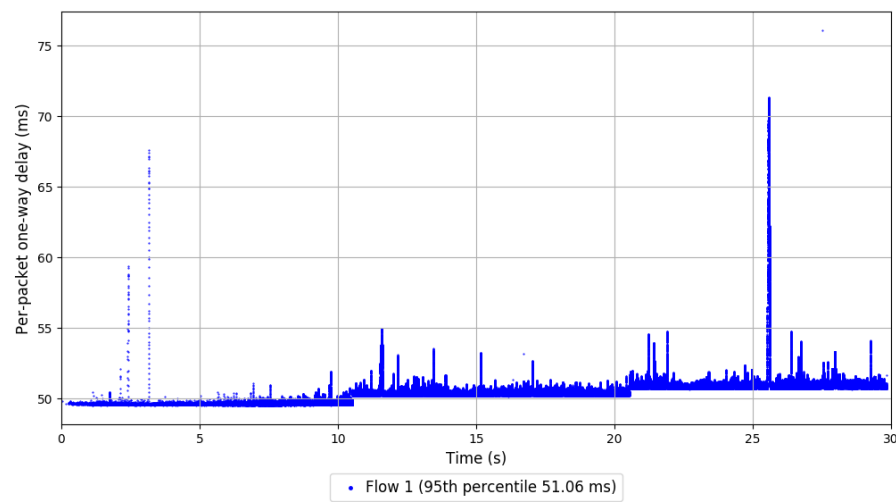
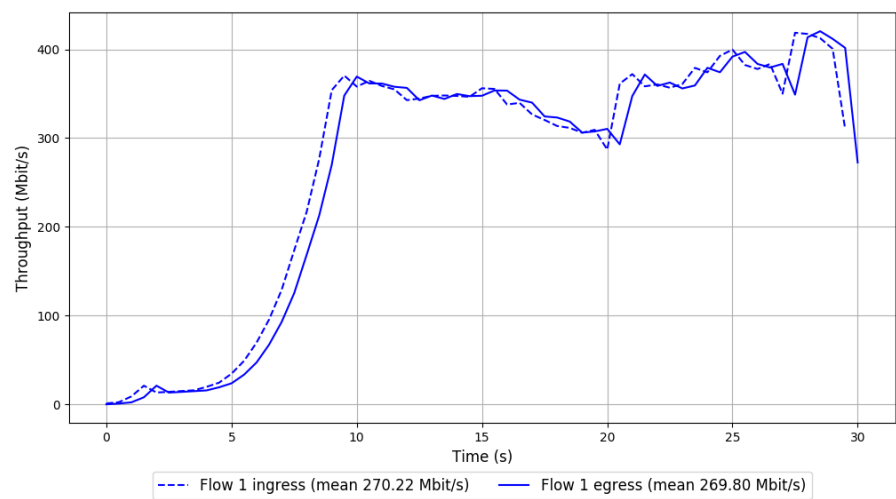
-- Flow 1:

Average throughput: 269.80 Mbit/s

95th percentile per-packet one-way delay: 51.060 ms

Loss rate: 0.49%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-07-02 01:18:25

End at: 2018-07-02 01:18:55

Local clock offset: 0.103 ms

Remote clock offset: 0.105 ms

Below is generated by plot.py at 2018-07-02 03:49:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 264.87 Mbit/s

95th percentile per-packet one-way delay: 50.810 ms

Loss rate: 0.40%

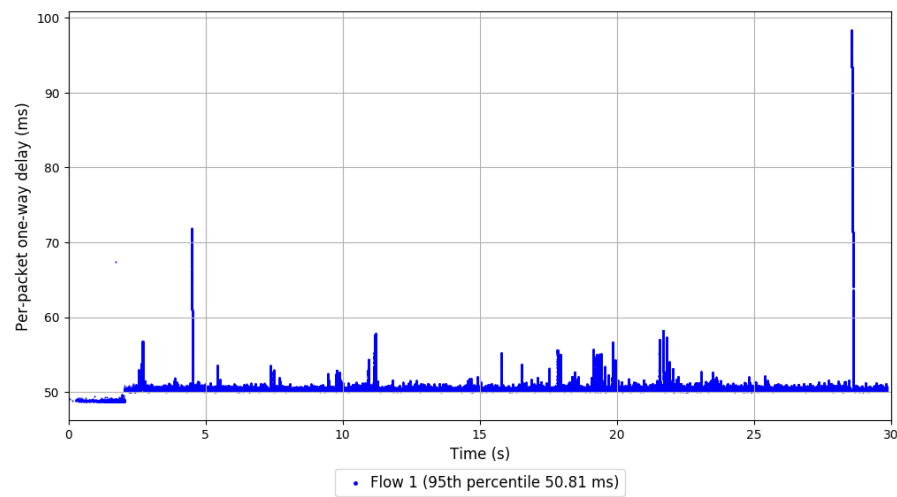
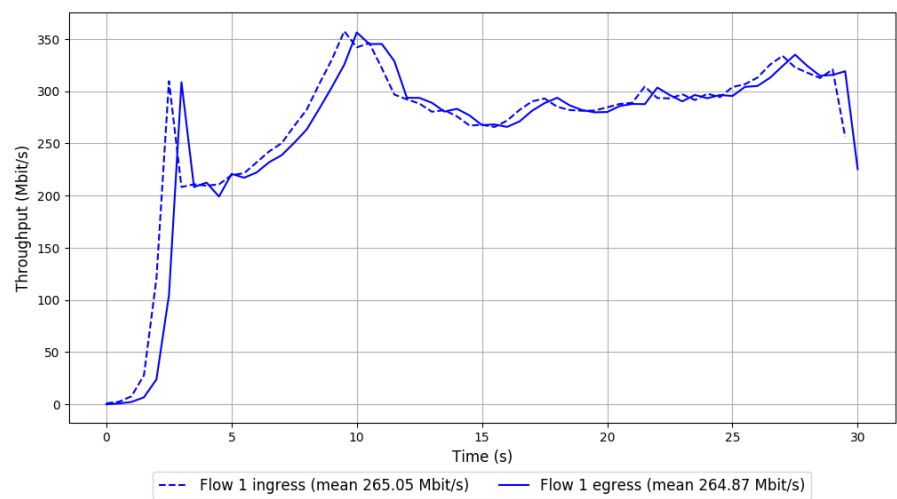
-- Flow 1:

Average throughput: 264.87 Mbit/s

95th percentile per-packet one-way delay: 50.810 ms

Loss rate: 0.40%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-07-02 01:39:33

End at: 2018-07-02 01:40:03

Local clock offset: 0.064 ms

Remote clock offset: -0.011 ms

Below is generated by plot.py at 2018-07-02 03:50:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 355.39 Mbit/s

95th percentile per-packet one-way delay: 52.534 ms

Loss rate: 0.35%

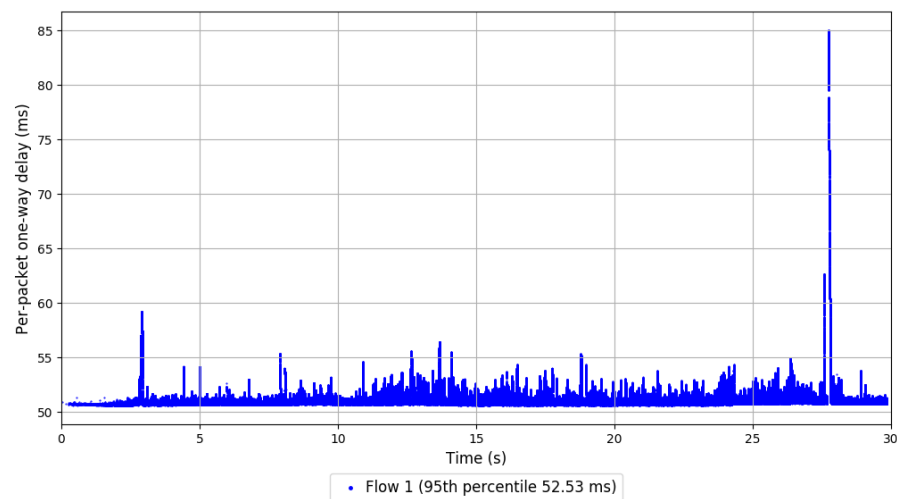
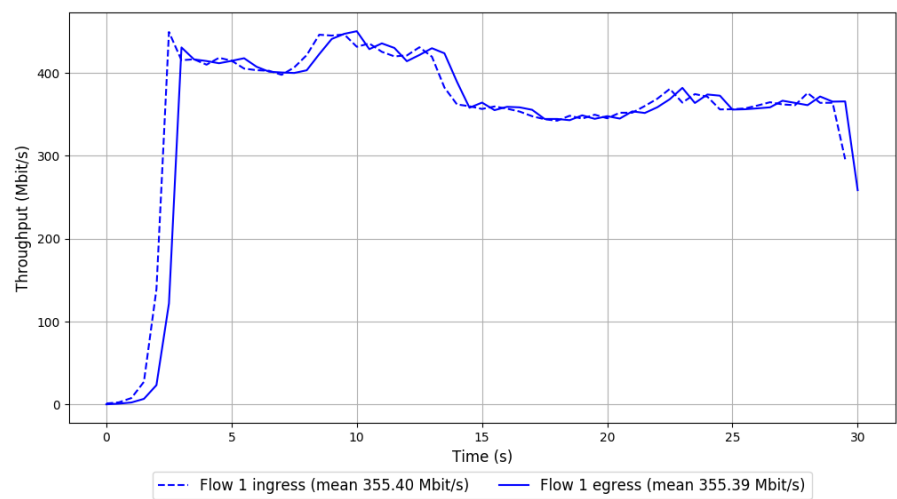
-- Flow 1:

Average throughput: 355.39 Mbit/s

95th percentile per-packet one-way delay: 52.534 ms

Loss rate: 0.35%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-07-02 02:00:42

End at: 2018-07-02 02:01:12

Local clock offset: 0.108 ms

Remote clock offset: 0.033 ms

Below is generated by plot.py at 2018-07-02 03:50:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 307.62 Mbit/s

95th percentile per-packet one-way delay: 50.605 ms

Loss rate: 0.36%

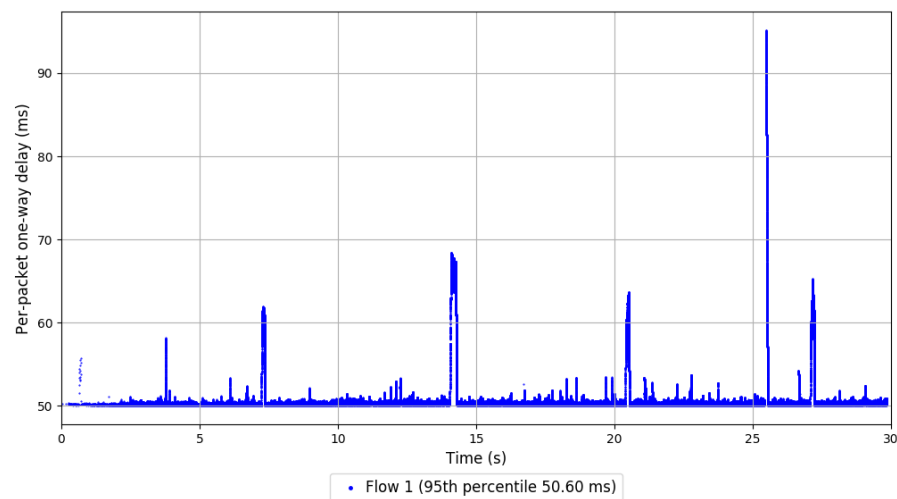
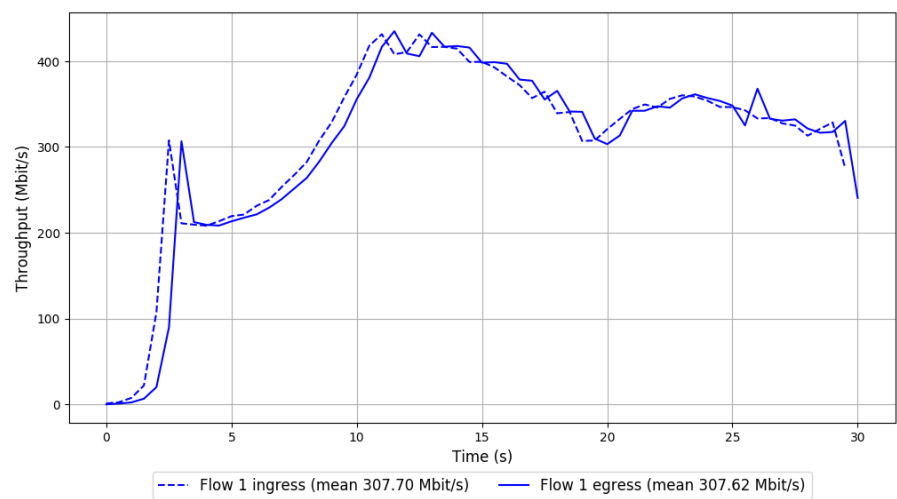
-- Flow 1:

Average throughput: 307.62 Mbit/s

95th percentile per-packet one-way delay: 50.605 ms

Loss rate: 0.36%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-07-02 02:21:37

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

Local clock offset: 0.122 ms

Remote clock offset: -0.021 ms

Below is generated by plot.py at 2018-07-02 03:50:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 263.00 Mbit/s

95th percentile per-packet one-way delay: 49.985 ms

Loss rate: 0.33%

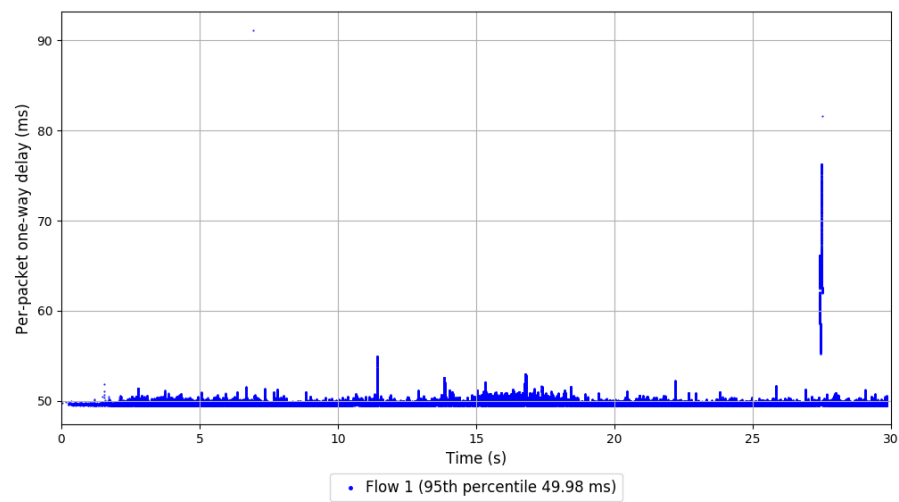
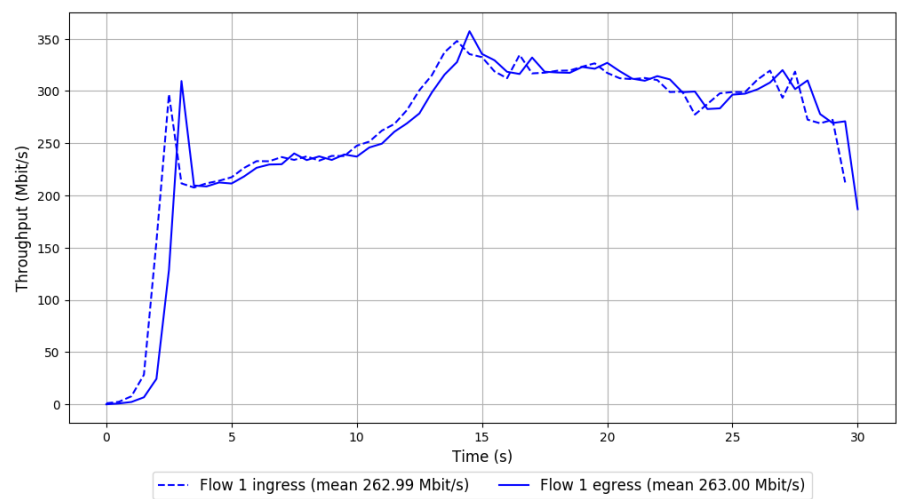
-- Flow 1:

Average throughput: 263.00 Mbit/s

95th percentile per-packet one-way delay: 49.985 ms

Loss rate: 0.33%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-07-01 23:03:15

End at: 2018-07-01 23:03:45

Local clock offset: 0.084 ms

Remote clock offset: 0.015 ms

Below is generated by plot.py at 2018-07-02 03:50:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.65 Mbit/s

95th percentile per-packet one-way delay: 51.030 ms

Loss rate: 0.36%

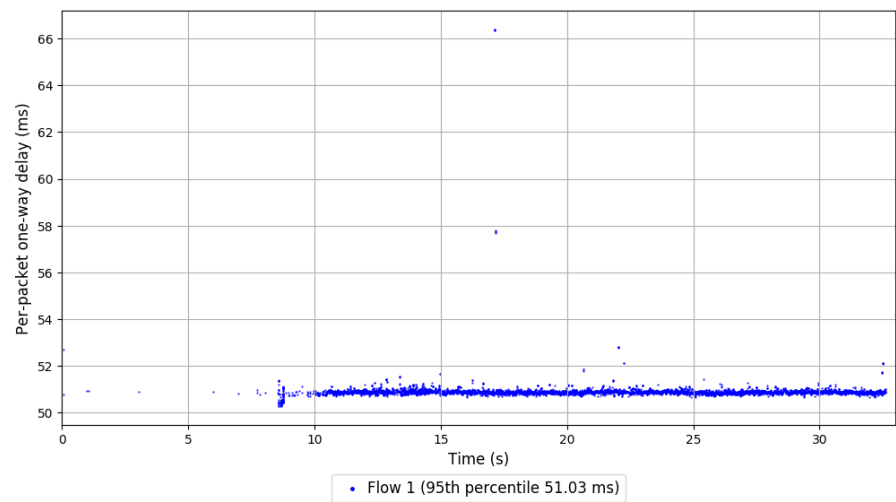
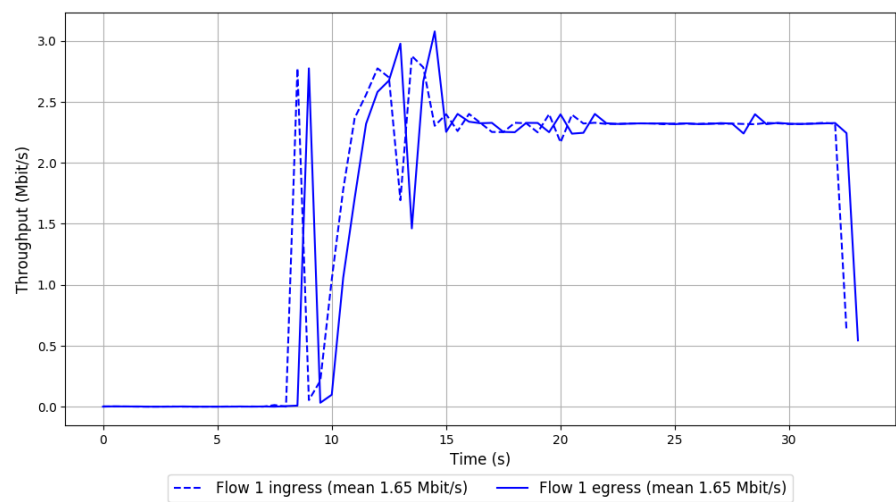
-- Flow 1:

Average throughput: 1.65 Mbit/s

95th percentile per-packet one-way delay: 51.030 ms

Loss rate: 0.36%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-07-01 23:24:04

End at: 2018-07-01 23:24:34

Local clock offset: 0.452 ms

Remote clock offset: -0.012 ms

Below is generated by plot.py at 2018-07-02 03:50:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 51.210 ms

Loss rate: 0.37%

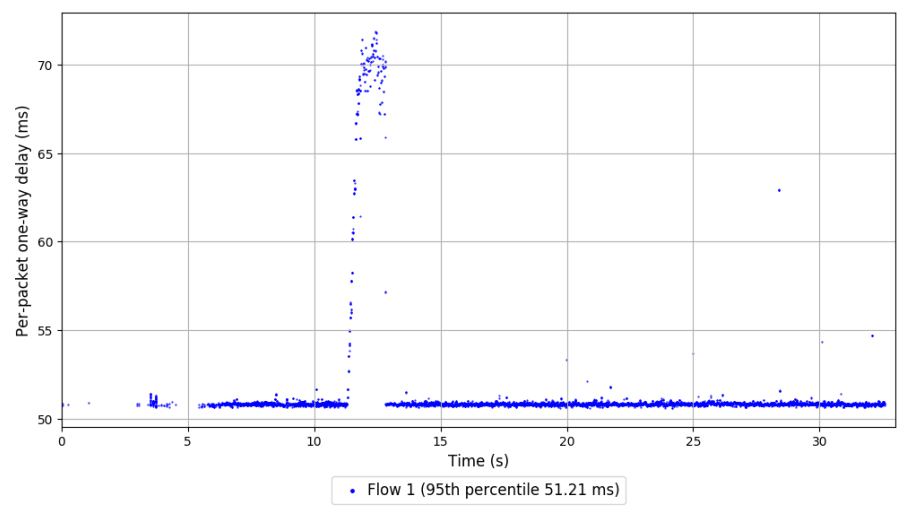
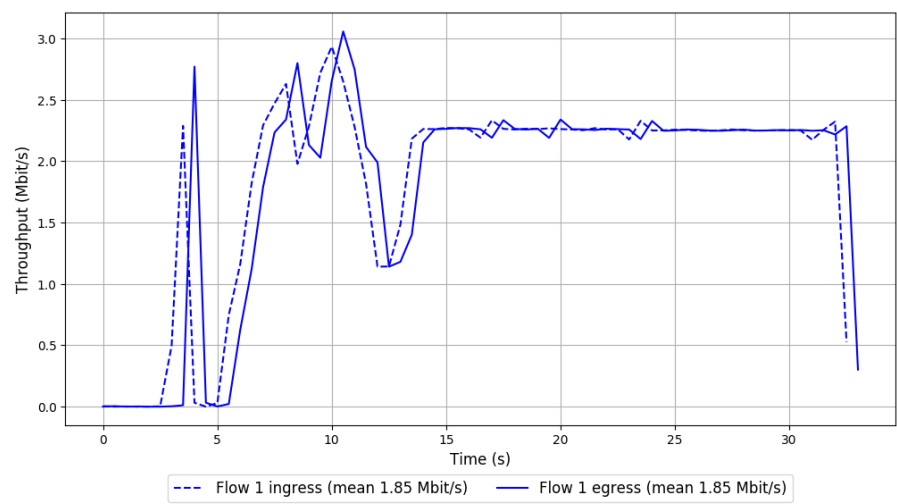
-- Flow 1:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 51.210 ms

Loss rate: 0.37%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-07-01 23:45:05

End at: 2018-07-01 23:45:35

Local clock offset: -0.279 ms

Remote clock offset: 0.09 ms

Below is generated by plot.py at 2018-07-02 03:50:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 49.515 ms

Loss rate: 0.43%

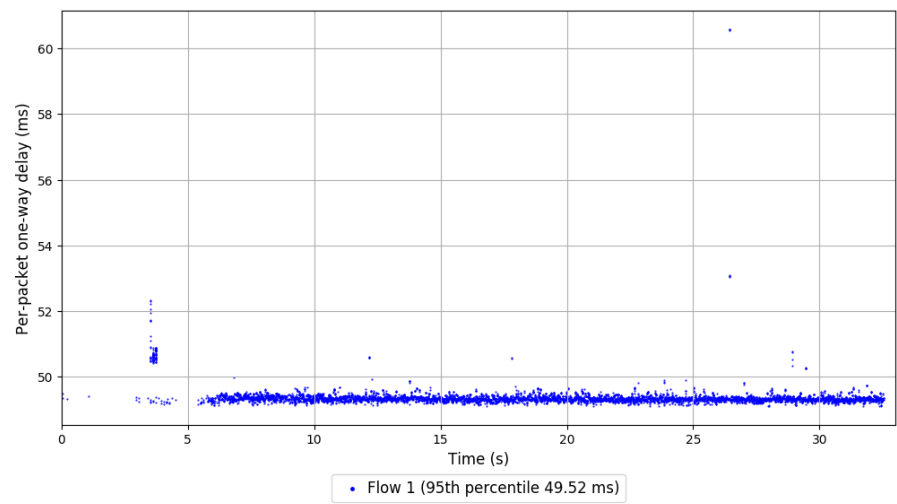
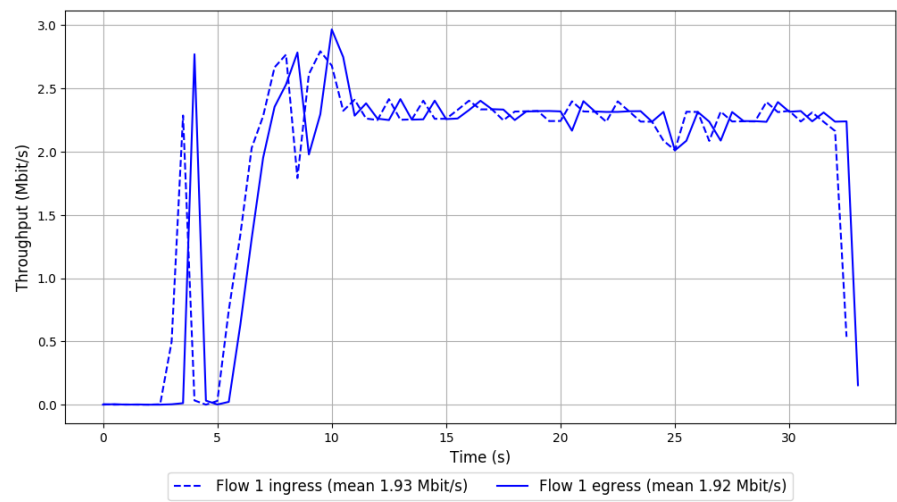
-- Flow 1:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 49.515 ms

Loss rate: 0.43%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-07-02 00:06:16

End at: 2018-07-02 00:06:46

Local clock offset: 0.078 ms

Remote clock offset: 0.066 ms

Below is generated by plot.py at 2018-07-02 03:50:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 51.085 ms

Loss rate: 0.37%

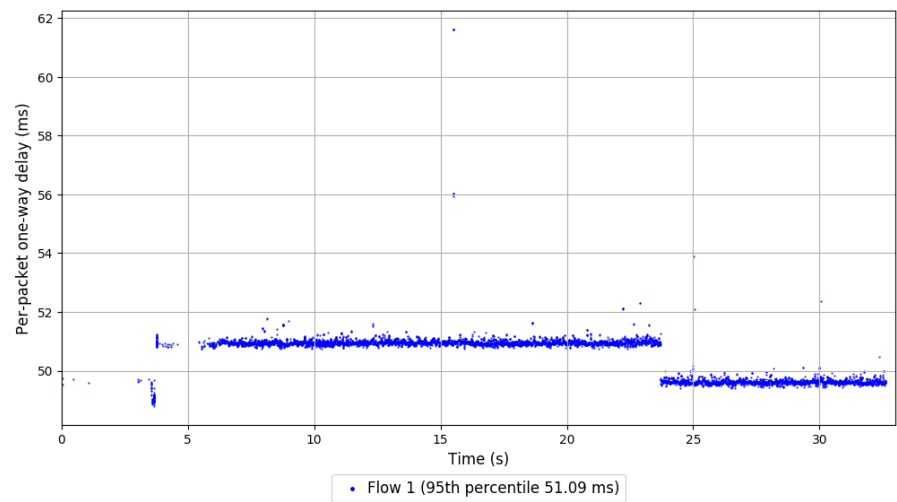
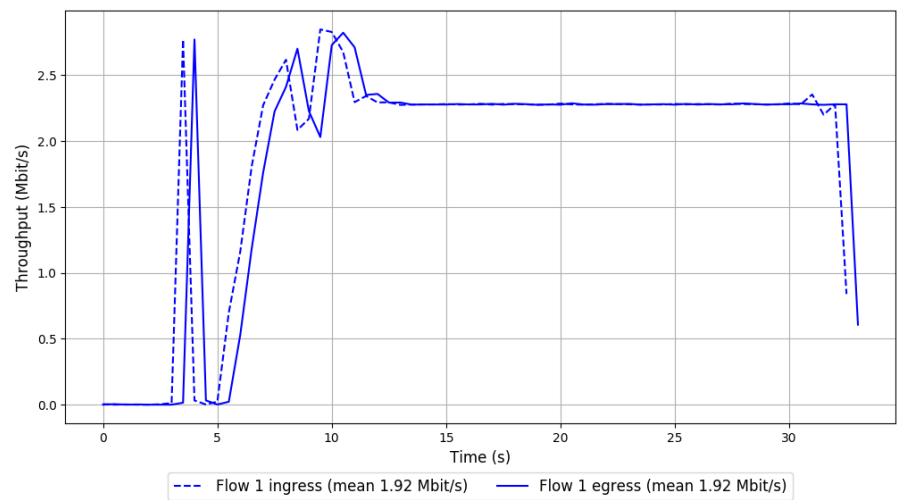
-- Flow 1:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 51.085 ms

Loss rate: 0.37%

Run 4: Report of WebRTC media — Data Link

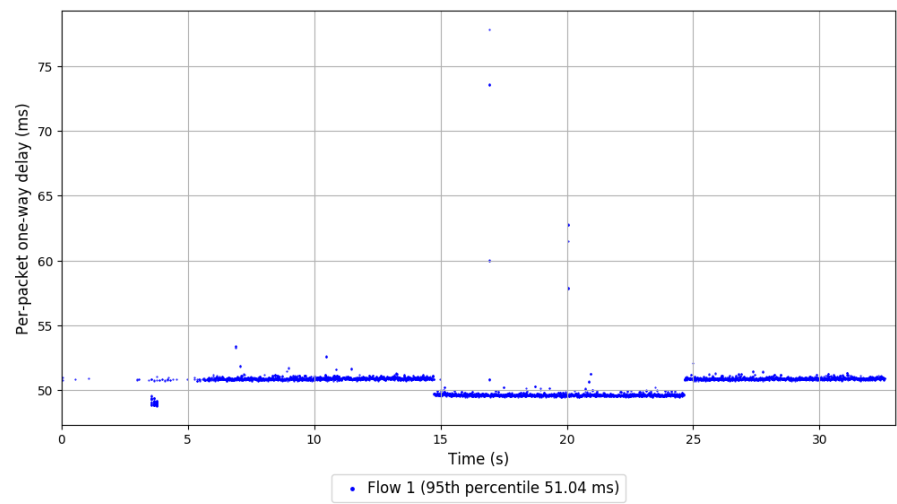
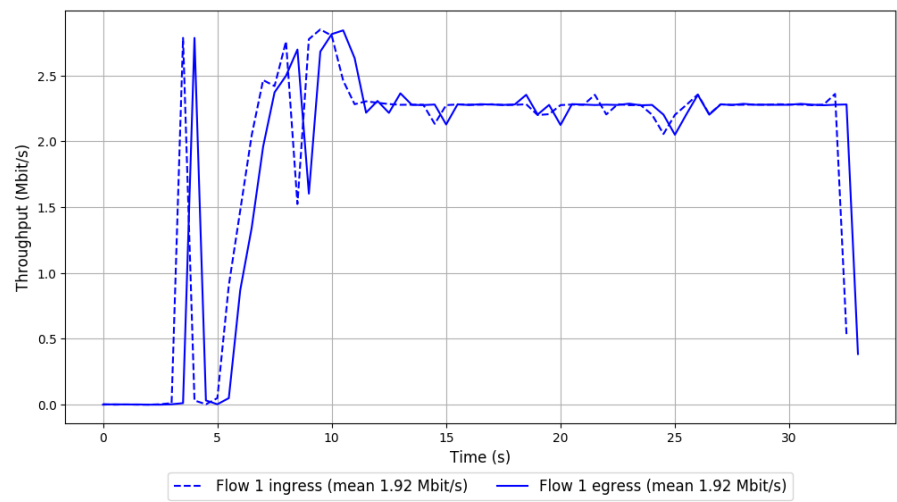


Run 5: Statistics of WebRTC media

Start at: 2018-07-02 00:27:15
End at: 2018-07-02 00:27:45
Local clock offset: 0.041 ms
Remote clock offset: -0.127 ms

Below is generated by plot.py at 2018-07-02 03:50:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.92 Mbit/s
95th percentile per-packet one-way delay: 51.042 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 1.92 Mbit/s
95th percentile per-packet one-way delay: 51.042 ms
Loss rate: 0.36%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-07-02 00:47:55

End at: 2018-07-02 00:48:25

Local clock offset: 0.075 ms

Remote clock offset: 0.053 ms

Below is generated by plot.py at 2018-07-02 03:50:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 51.099 ms

Loss rate: 0.37%

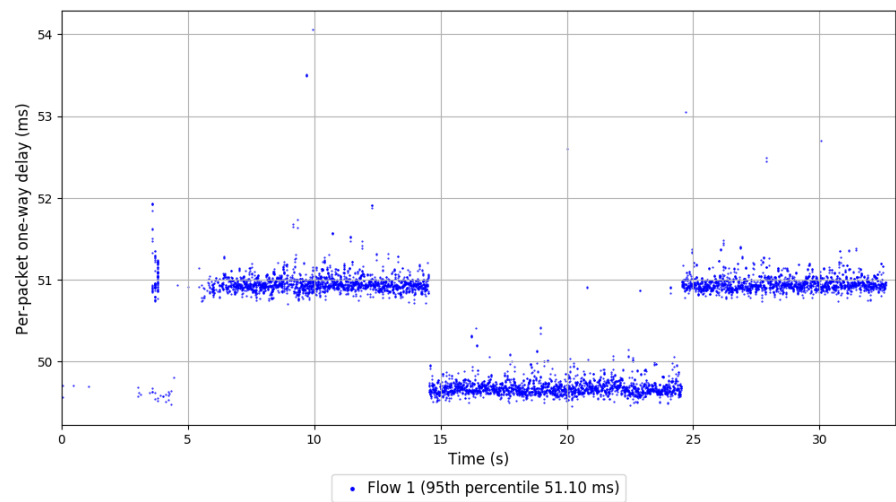
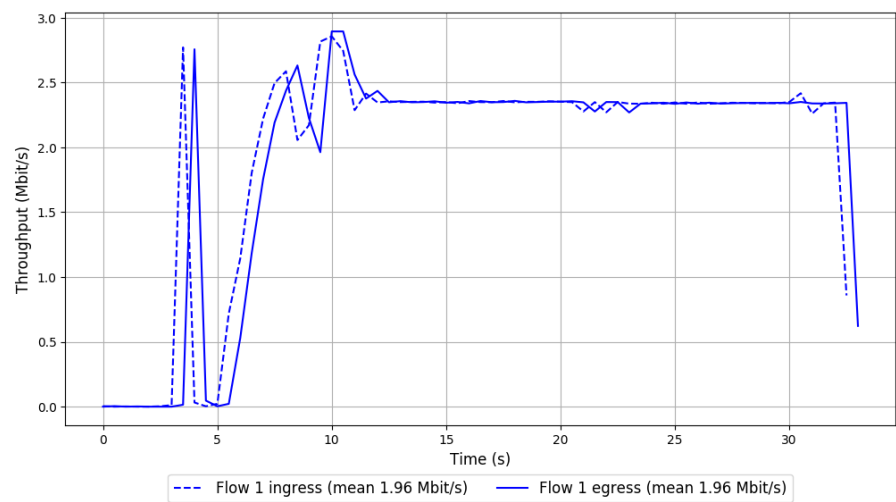
-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 51.099 ms

Loss rate: 0.37%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-07-02 01:08:55

End at: 2018-07-02 01:09:25

Local clock offset: -0.265 ms

Remote clock offset: 0.166 ms

Below is generated by plot.py at 2018-07-02 03:50:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 50.195 ms

Loss rate: 0.44%

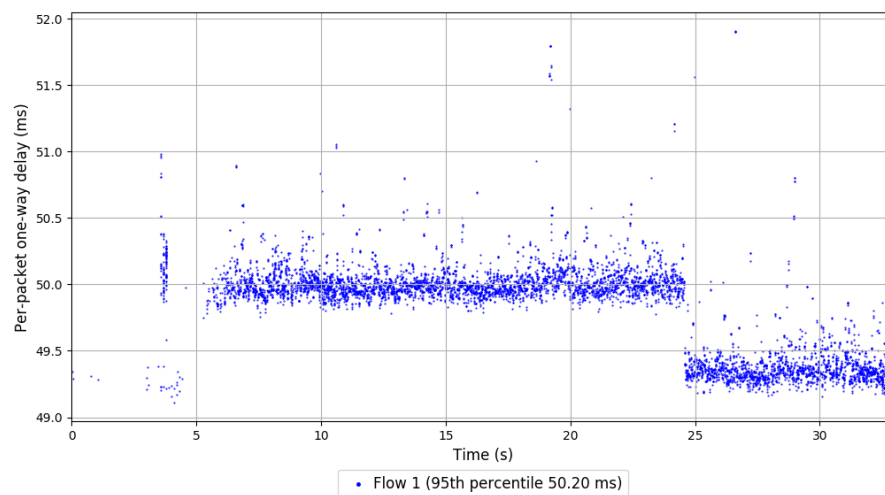
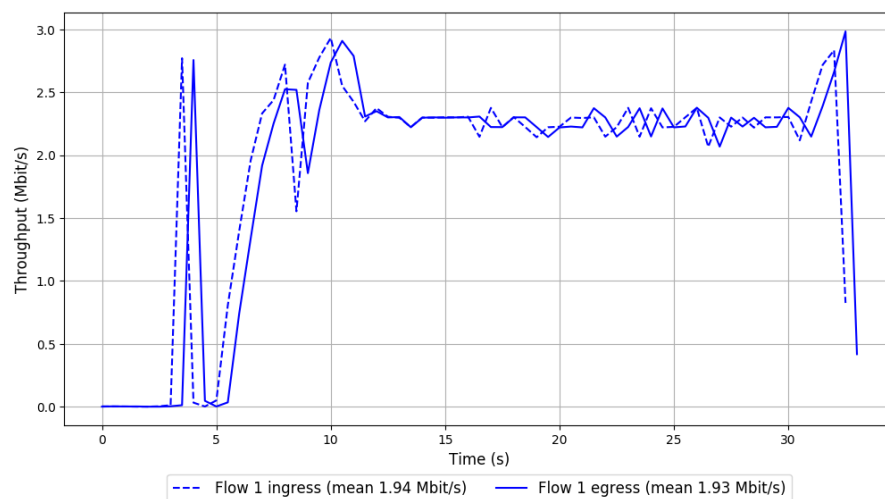
-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 50.195 ms

Loss rate: 0.44%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-07-02 01:29:57

End at: 2018-07-02 01:30:27

Local clock offset: 0.081 ms

Remote clock offset: -0.01 ms

Below is generated by plot.py at 2018-07-02 03:50:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 50.540 ms

Loss rate: 0.43%

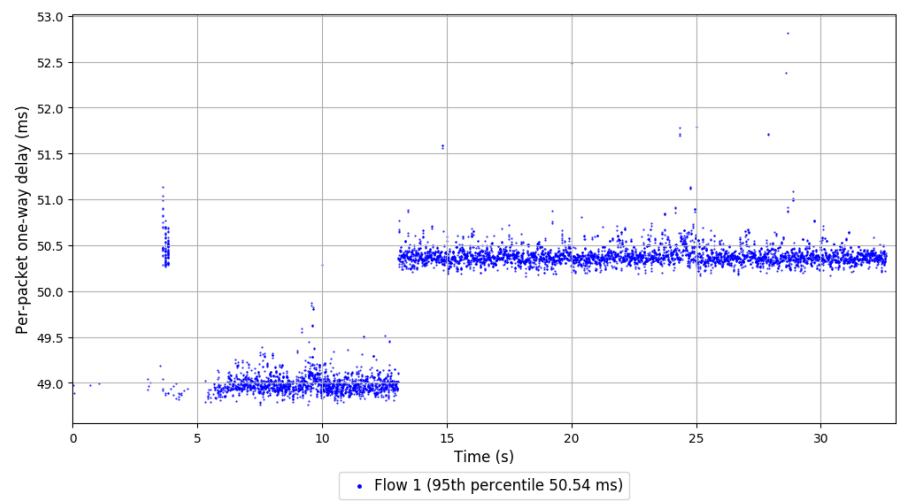
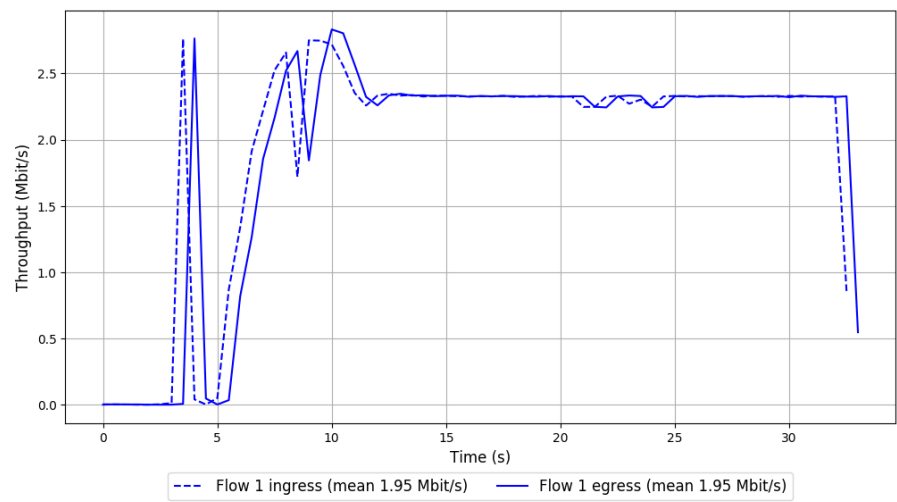
-- Flow 1:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 50.540 ms

Loss rate: 0.43%

Run 8: Report of WebRTC media — Data Link

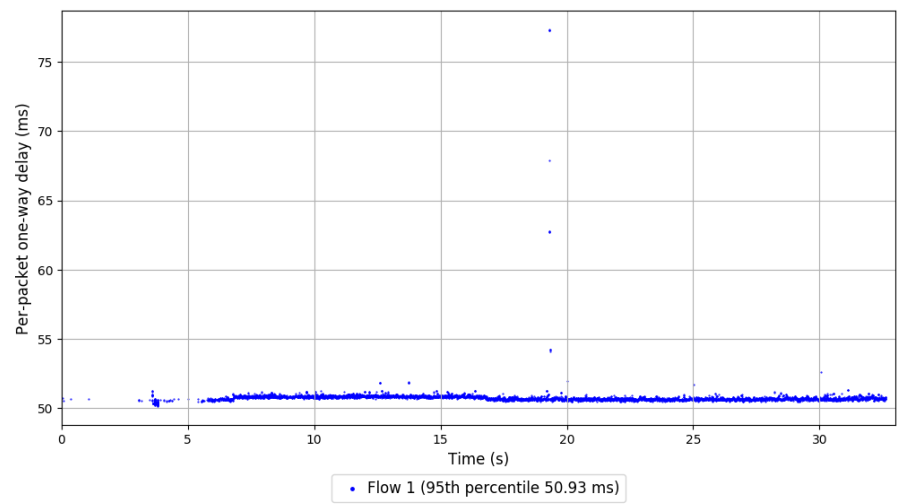
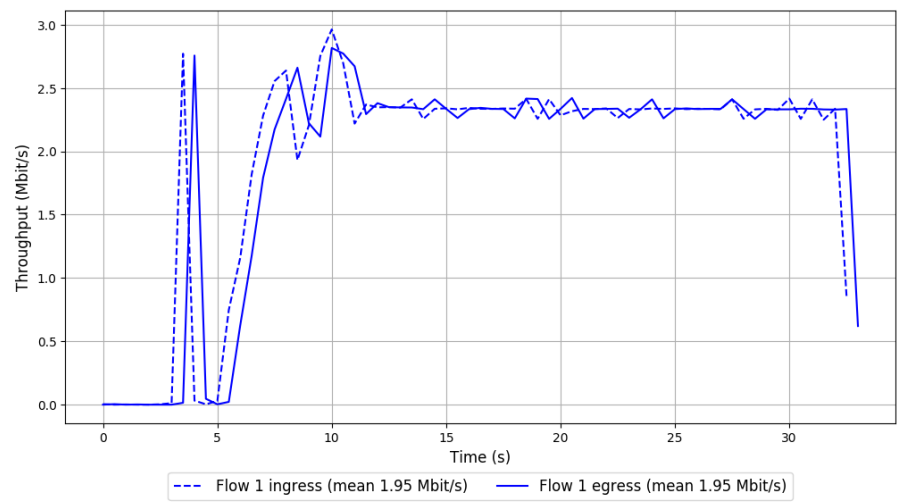


Run 9: Statistics of WebRTC media

Start at: 2018-07-02 01:51:13
End at: 2018-07-02 01:51:43
Local clock offset: 0.08 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-07-02 03:50:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 50.927 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 50.927 ms
Loss rate: 0.37%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-02 02:12:13

End at: 2018-07-02 02:12:43

Local clock offset: 0.474 ms

Remote clock offset: -0.059 ms

Below is generated by plot.py at 2018-07-02 03:50:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 51.432 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 51.432 ms

Loss rate: 0.42%

Run 10: Report of WebRTC media — Data Link

