

Pantheon Report

Generated at 2018-08-28 00:36:13 (UTC).

Data path: AWS California 2 ens5 (*local*) → Mexico em1 (*remote*).

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

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

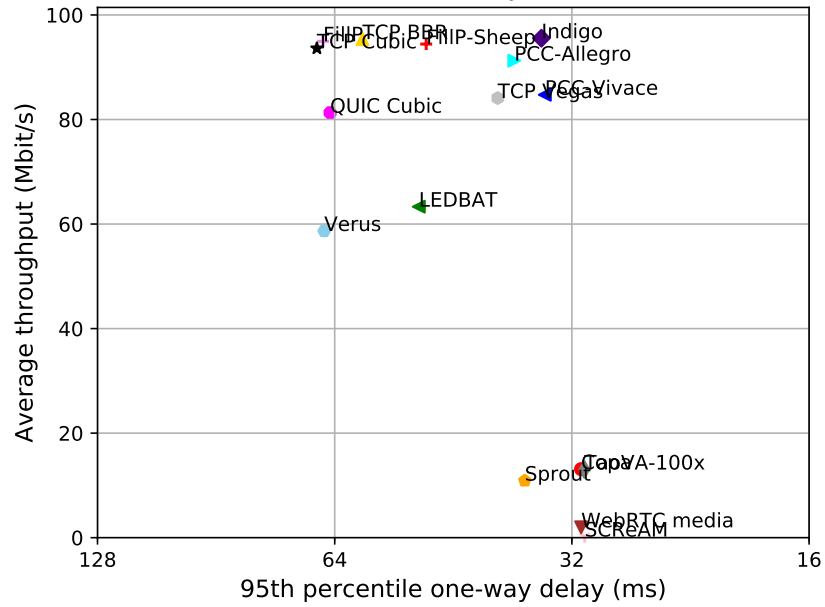
System info:

```
Linux 4.15.0-1019-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

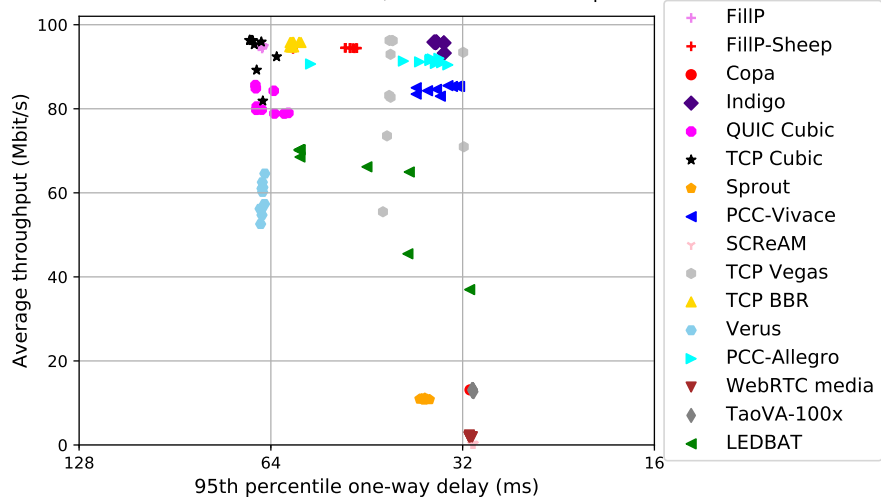
Git summary:

```
branch: master @ 8f31687904b612ba36b45467ab20eda73108da68
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfef58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 5386469677b75a7fdc5fe25d8daccce7950d8a69
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from AWS California 2 to Mexico, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from AWS California 2 to Mexico, 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	95.37	59.01	0.98
Copa	1	13.11	31.16	71.00
TCP Cubic	10	93.61	67.42	0.56
FillP	10	94.96	66.20	9.40
FillP-Sheep	10	94.43	48.98	0.93
Indigo	10	95.55	34.98	0.01
LEDBAT	10	63.32	50.05	0.02
PCC-Allegro	10	91.24	37.86	0.72
PCC-Expr	0	N/A	N/A	N/A
QUIC Cubic	9	81.29	64.87	1.50
SCReAM	10	0.21	30.82	0.00
Sprout	9	10.91	36.72	0.02
TaoVA-100x	10	13.04	30.86	73.10
TCP Vegas	10	84.10	39.75	0.36
Verus	10	58.67	66.00	23.69
PCC-Vivace	10	84.73	34.64	0.00
WebRTC media	10	1.98	31.15	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-08-27 20:56:57

End at: 2018-08-27 20:57:27

Local clock offset: 1.563 ms

Remote clock offset: 4.158 ms

Below is generated by plot.py at 2018-08-28 00:21:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.77 Mbit/s

95th percentile per-packet one-way delay: 59.702 ms

Loss rate: 1.04%

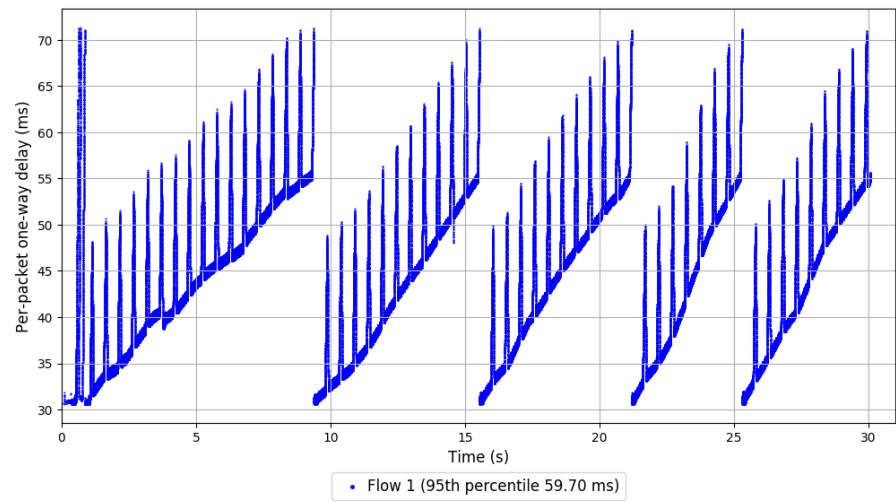
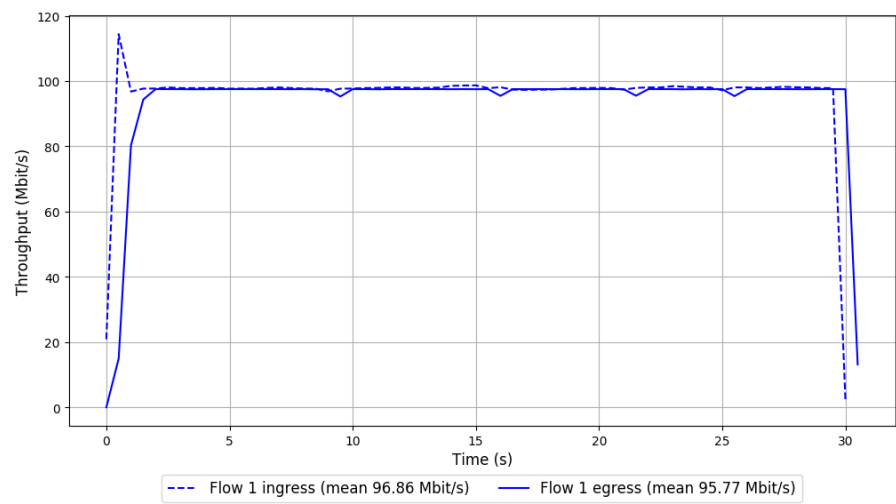
-- Flow 1:

Average throughput: 95.77 Mbit/s

95th percentile per-packet one-way delay: 59.702 ms

Loss rate: 1.04%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-08-27 21:19:00

End at: 2018-08-27 21:19:30

Local clock offset: 1.288 ms

Remote clock offset: 5.106 ms

Below is generated by plot.py at 2018-08-28 00:21:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.76 Mbit/s

95th percentile per-packet one-way delay: 59.780 ms

Loss rate: 0.87%

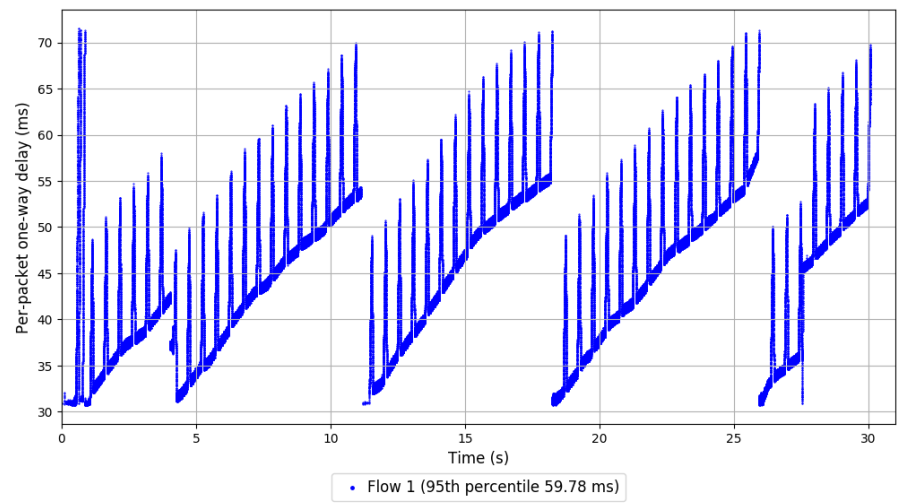
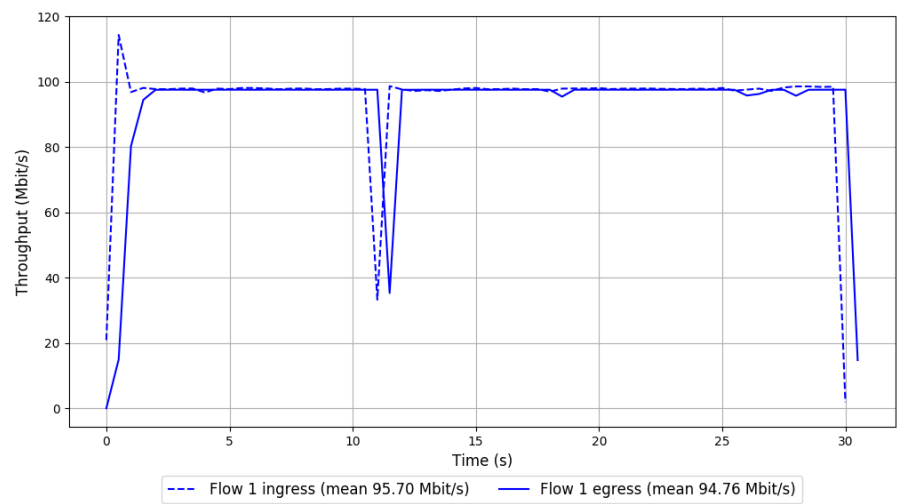
-- Flow 1:

Average throughput: 94.76 Mbit/s

95th percentile per-packet one-way delay: 59.780 ms

Loss rate: 0.87%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-08-27 21:41:03

End at: 2018-08-27 21:41:33

Local clock offset: 1.126 ms

Remote clock offset: 6.126 ms

Below is generated by plot.py at 2018-08-28 00:21:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.75 Mbit/s

95th percentile per-packet one-way delay: 59.357 ms

Loss rate: 0.94%

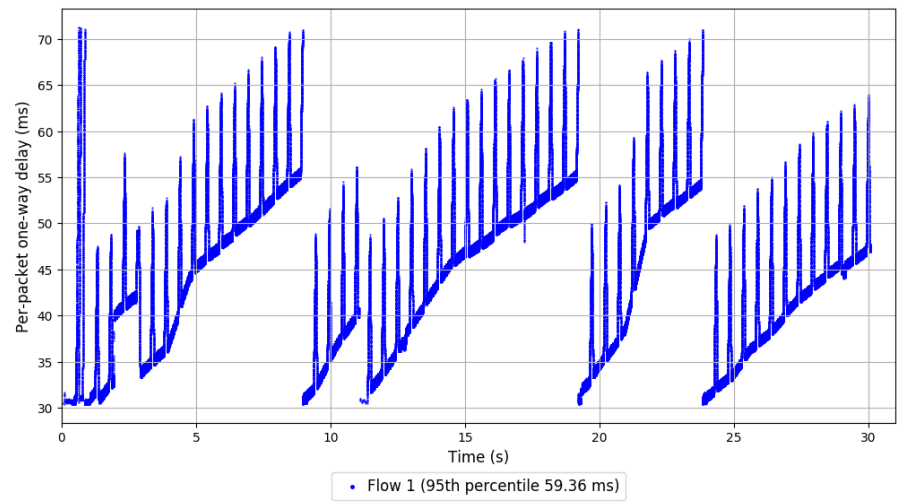
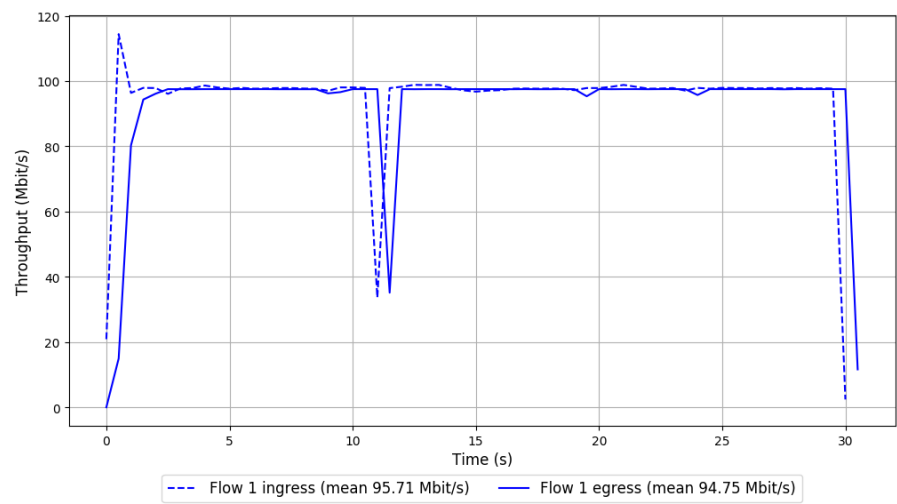
-- Flow 1:

Average throughput: 94.75 Mbit/s

95th percentile per-packet one-way delay: 59.357 ms

Loss rate: 0.94%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-08-27 22:03:01

End at: 2018-08-27 22:03:31

Local clock offset: 1.055 ms

Remote clock offset: 6.729 ms

Below is generated by plot.py at 2018-08-28 00:21:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.81 Mbit/s

95th percentile per-packet one-way delay: 58.971 ms

Loss rate: 0.94%

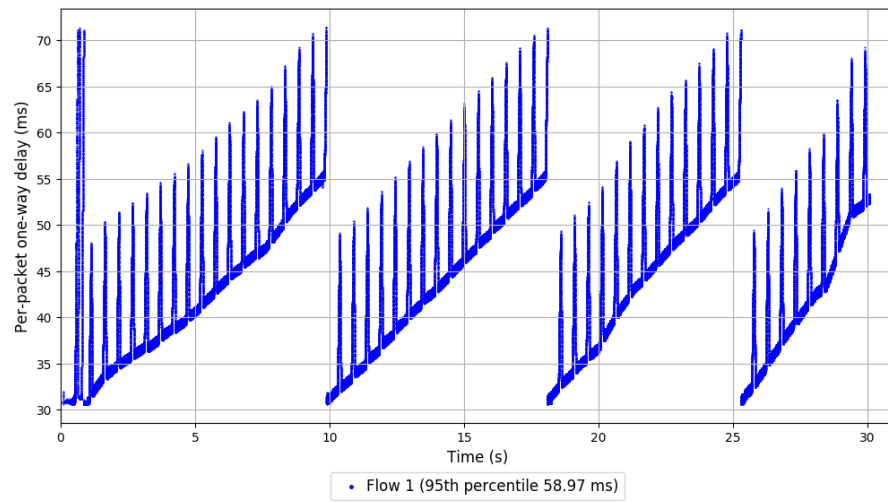
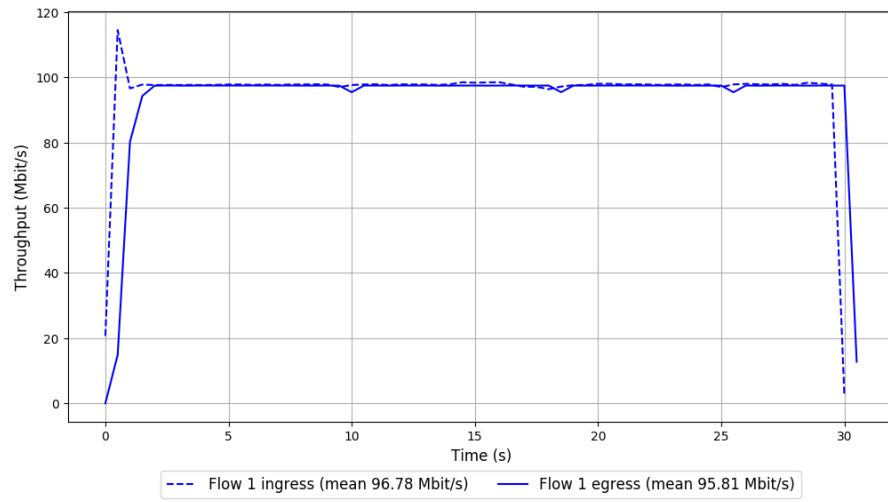
-- Flow 1:

Average throughput: 95.81 Mbit/s

95th percentile per-packet one-way delay: 58.971 ms

Loss rate: 0.94%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-08-27 22:24:59

End at: 2018-08-27 22:25:29

Local clock offset: 1.033 ms

Remote clock offset: 8.481 ms

Below is generated by plot.py at 2018-08-28 00:21:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.78 Mbit/s

95th percentile per-packet one-way delay: 57.399 ms

Loss rate: 1.03%

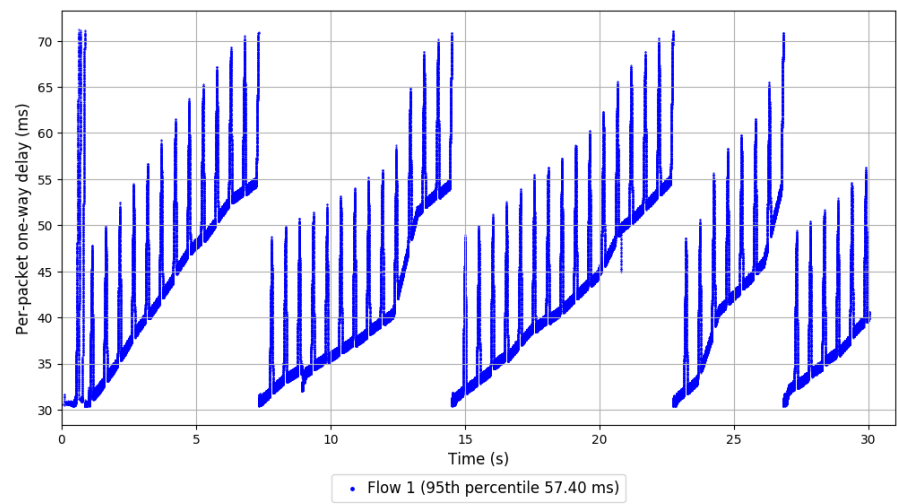
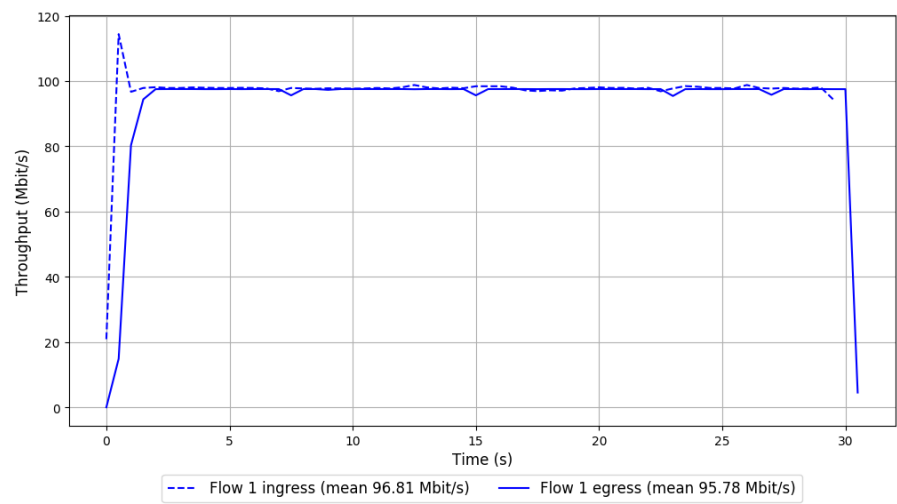
-- Flow 1:

Average throughput: 95.78 Mbit/s

95th percentile per-packet one-way delay: 57.399 ms

Loss rate: 1.03%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-08-27 22:46:56

End at: 2018-08-27 22:47:26

Local clock offset: 0.99 ms

Remote clock offset: 8.631 ms

Below is generated by plot.py at 2018-08-28 00:21:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.74 Mbit/s

95th percentile per-packet one-way delay: 58.942 ms

Loss rate: 1.05%

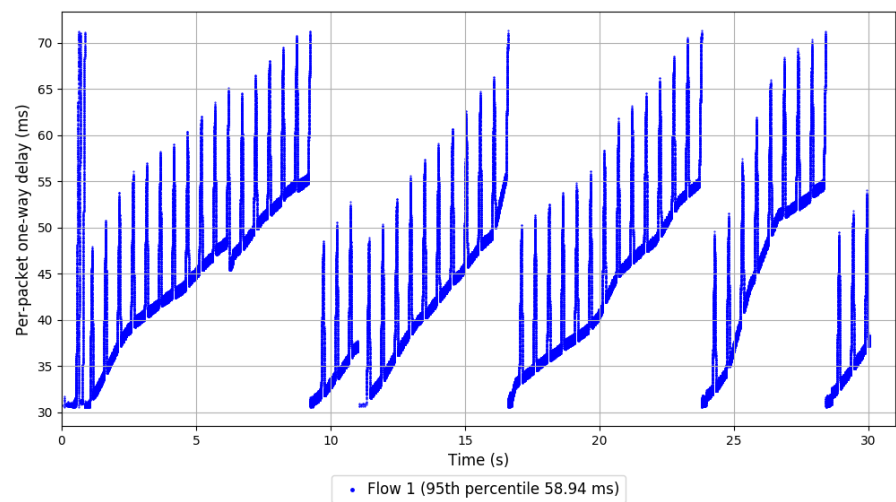
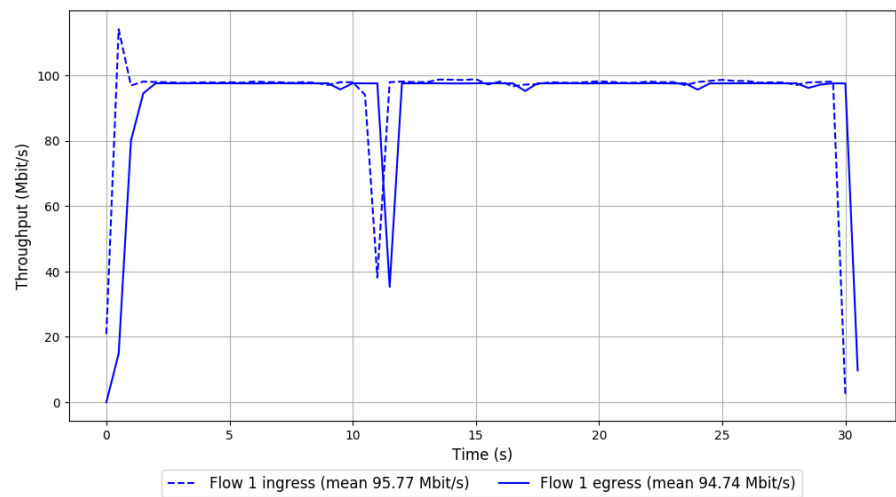
-- Flow 1:

Average throughput: 94.74 Mbit/s

95th percentile per-packet one-way delay: 58.942 ms

Loss rate: 1.05%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-08-27 23:08:58

End at: 2018-08-27 23:09:28

Local clock offset: 0.907 ms

Remote clock offset: 7.823 ms

Below is generated by plot.py at 2018-08-28 00:21:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.76 Mbit/s

95th percentile per-packet one-way delay: 59.491 ms

Loss rate: 1.07%

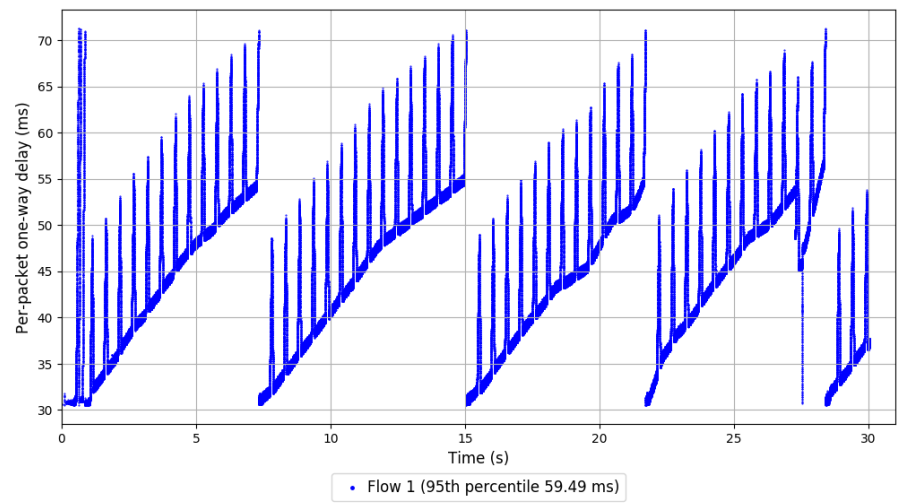
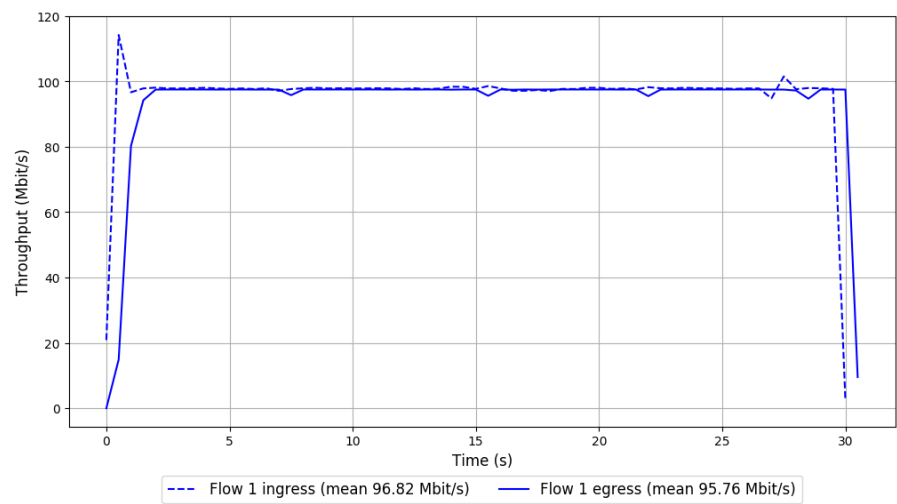
-- Flow 1:

Average throughput: 95.76 Mbit/s

95th percentile per-packet one-way delay: 59.491 ms

Loss rate: 1.07%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-08-27 23:30:54

End at: 2018-08-27 23:31:24

Local clock offset: 0.984 ms

Remote clock offset: 6.693 ms

Below is generated by plot.py at 2018-08-28 00:21:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.81 Mbit/s

95th percentile per-packet one-way delay: 57.796 ms

Loss rate: 0.93%

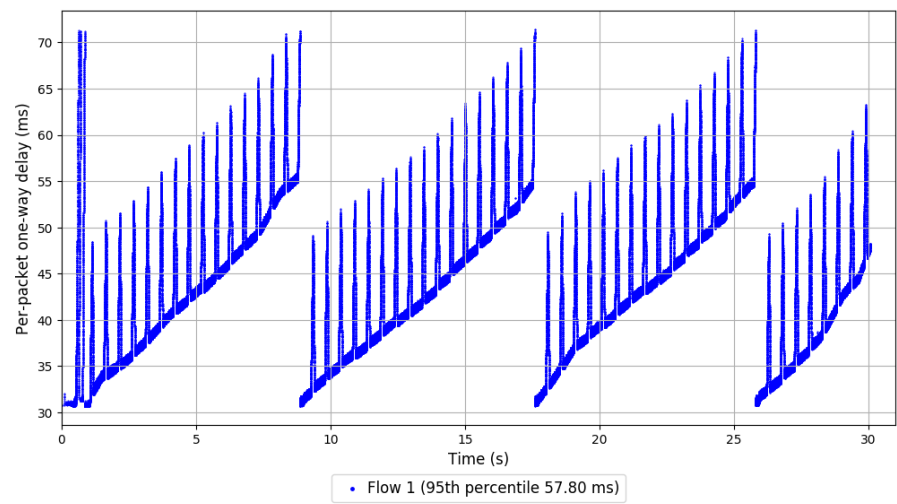
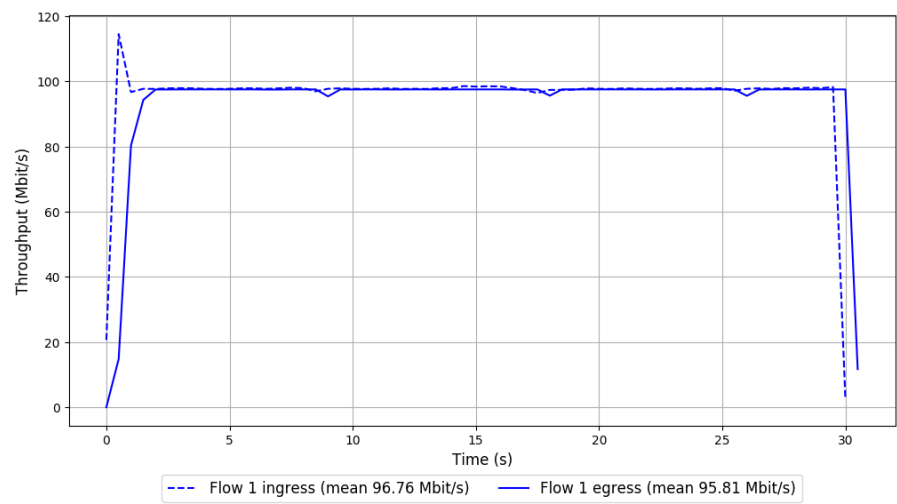
-- Flow 1:

Average throughput: 95.81 Mbit/s

95th percentile per-packet one-way delay: 57.796 ms

Loss rate: 0.93%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-08-27 23:52:50

End at: 2018-08-27 23:53:20

Local clock offset: 0.782 ms

Remote clock offset: 4.291 ms

Below is generated by plot.py at 2018-08-28 00:22:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.74 Mbit/s

95th percentile per-packet one-way delay: 59.427 ms

Loss rate: 1.00%

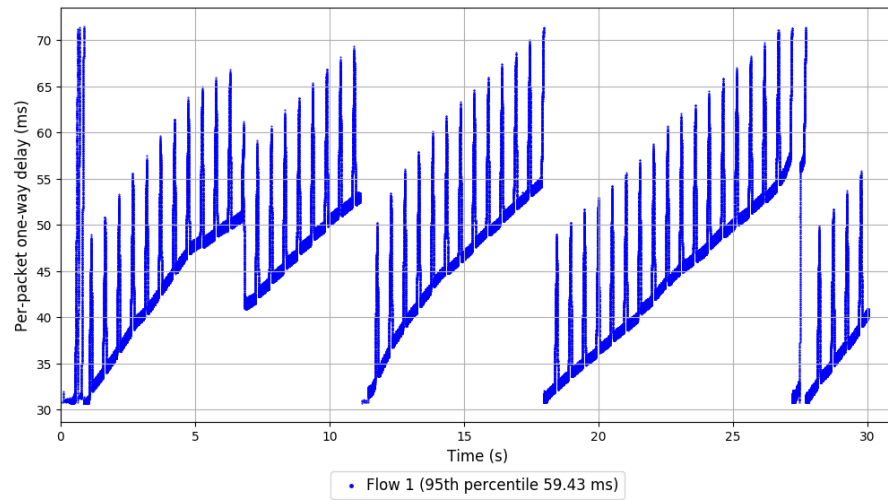
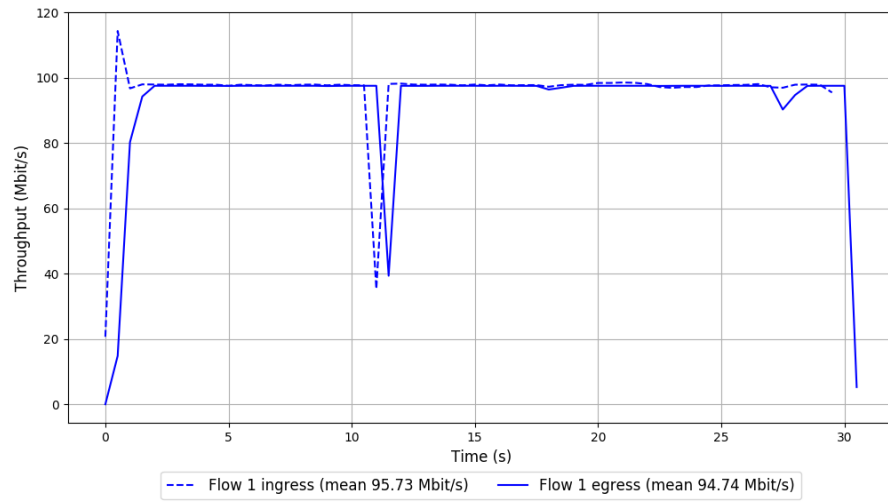
-- Flow 1:

Average throughput: 94.74 Mbit/s

95th percentile per-packet one-way delay: 59.427 ms

Loss rate: 1.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-08-28 00:14:44

End at: 2018-08-28 00:15:14

Local clock offset: 0.539 ms

Remote clock offset: 2.877 ms

Below is generated by plot.py at 2018-08-28 00:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.80 Mbit/s

95th percentile per-packet one-way delay: 59.214 ms

Loss rate: 0.95%

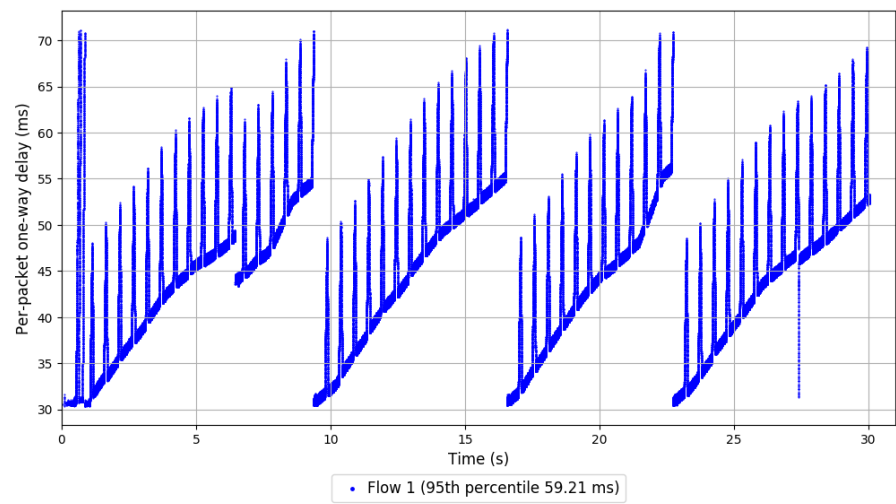
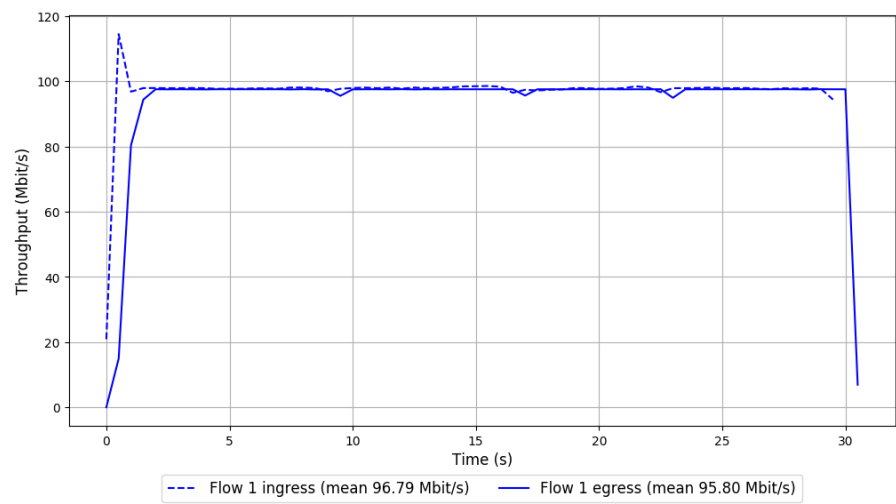
-- Flow 1:

Average throughput: 95.80 Mbit/s

95th percentile per-packet one-way delay: 59.214 ms

Loss rate: 0.95%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-08-27 20:47:50

End at: 2018-08-27 20:48:20

Local clock offset: 1.392 ms

Remote clock offset: 3.881 ms

Below is generated by plot.py at 2018-08-28 00:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.11 Mbit/s

95th percentile per-packet one-way delay: 31.158 ms

Loss rate: 71.00%

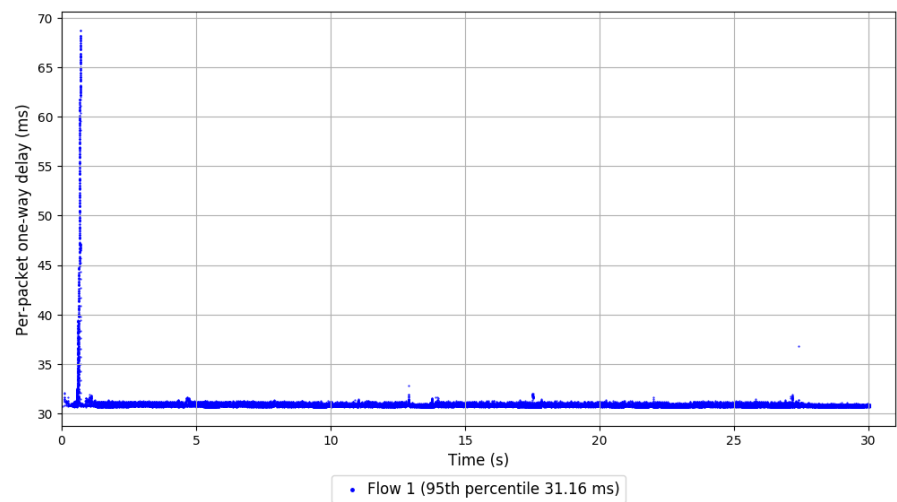
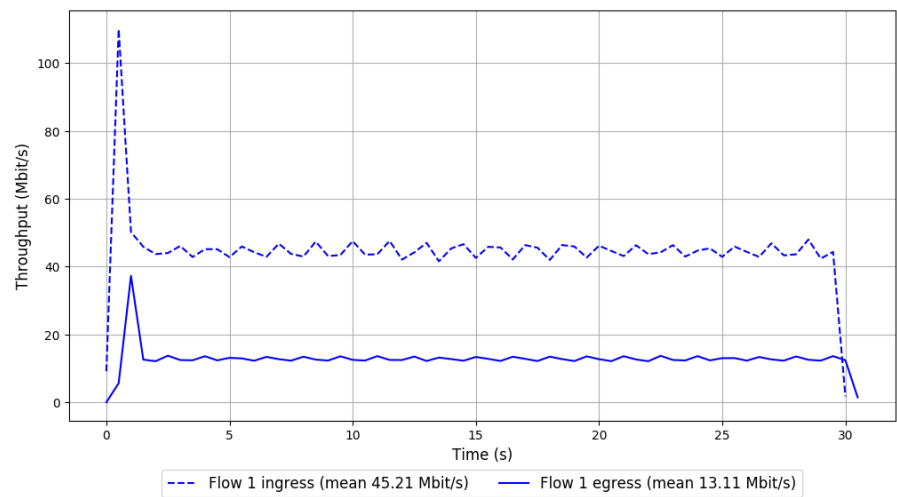
-- Flow 1:

Average throughput: 13.11 Mbit/s

95th percentile per-packet one-way delay: 31.158 ms

Loss rate: 71.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

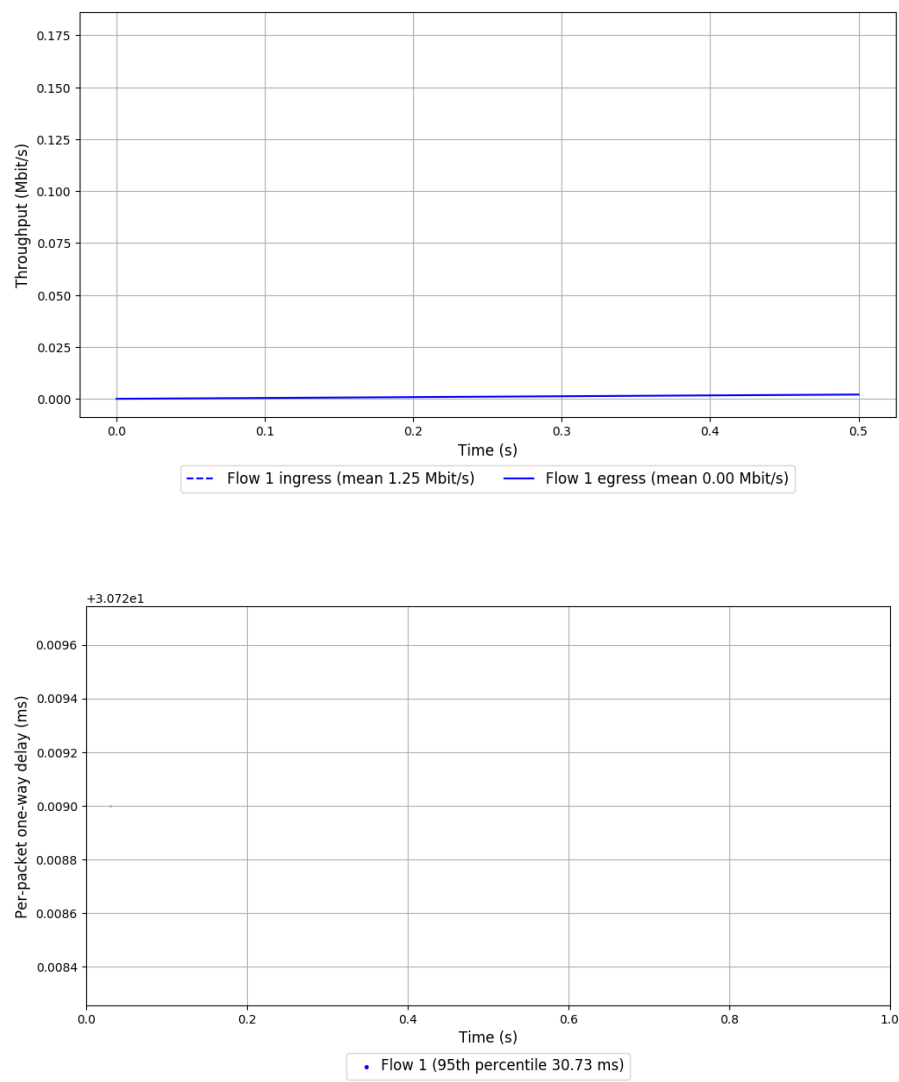
Start at: 2018-08-27 21:09:52

End at: 2018-08-27 21:10:22

Local clock offset: 1.338 ms

Remote clock offset: 4.839 ms

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

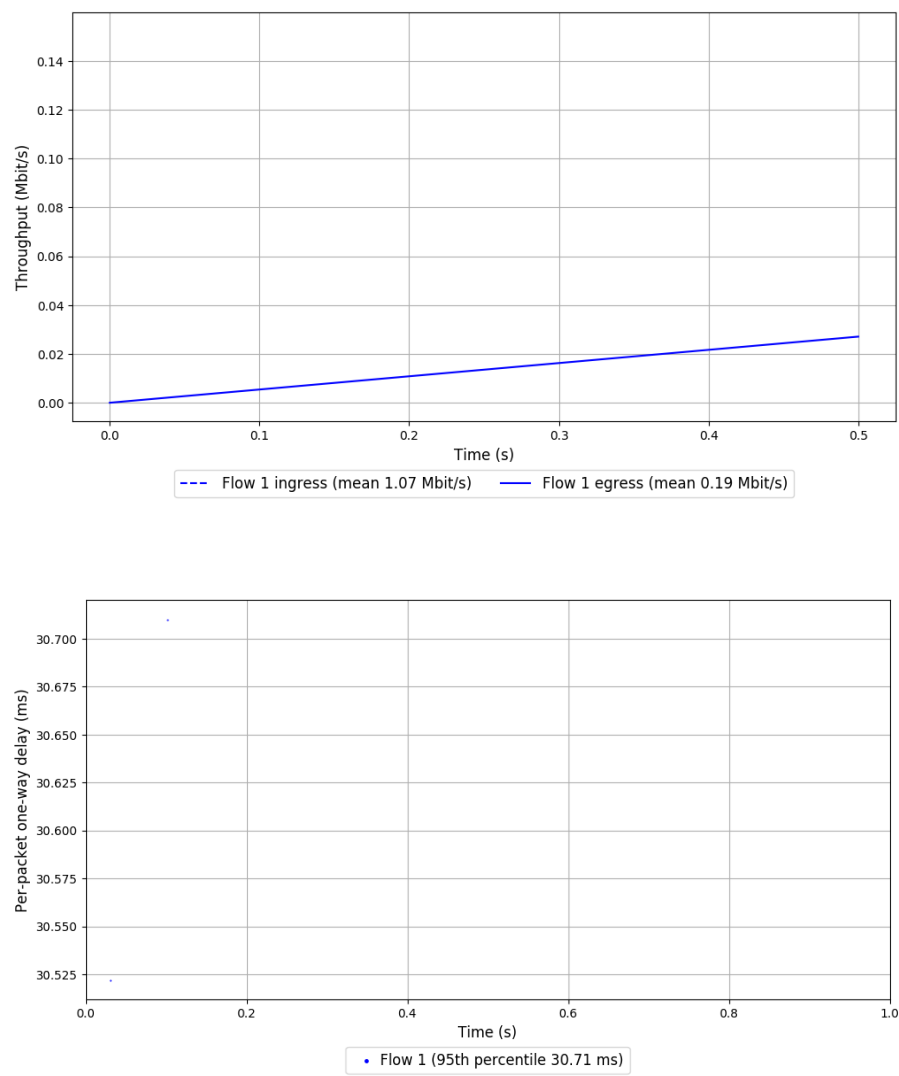
Start at: 2018-08-27 21:31:59

End at: 2018-08-27 21:32:29

Local clock offset: 1.496 ms

Remote clock offset: 5.655 ms

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

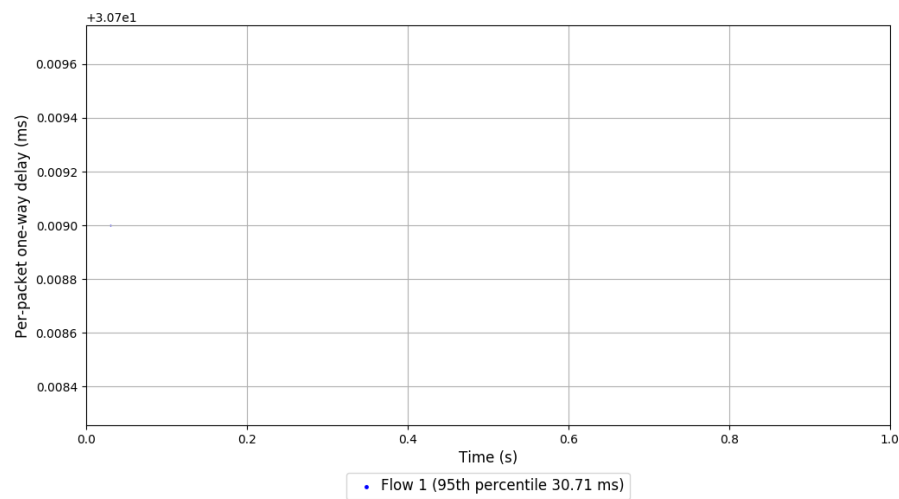
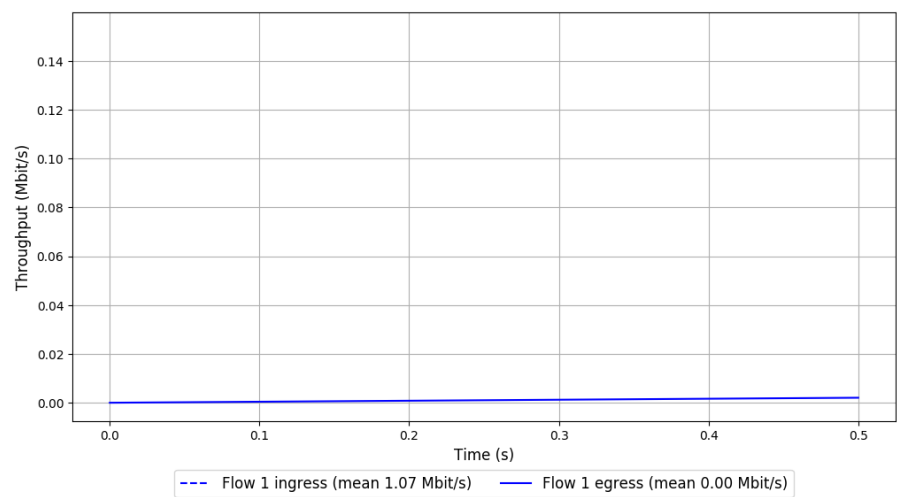
Start at: 2018-08-27 21:53:54

End at: 2018-08-27 21:54:24

Local clock offset: 0.99 ms

Remote clock offset: 6.157 ms

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

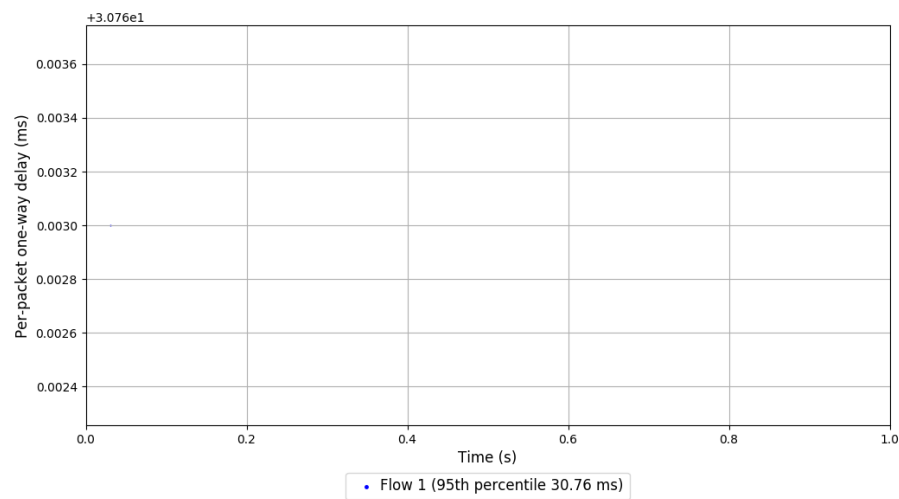
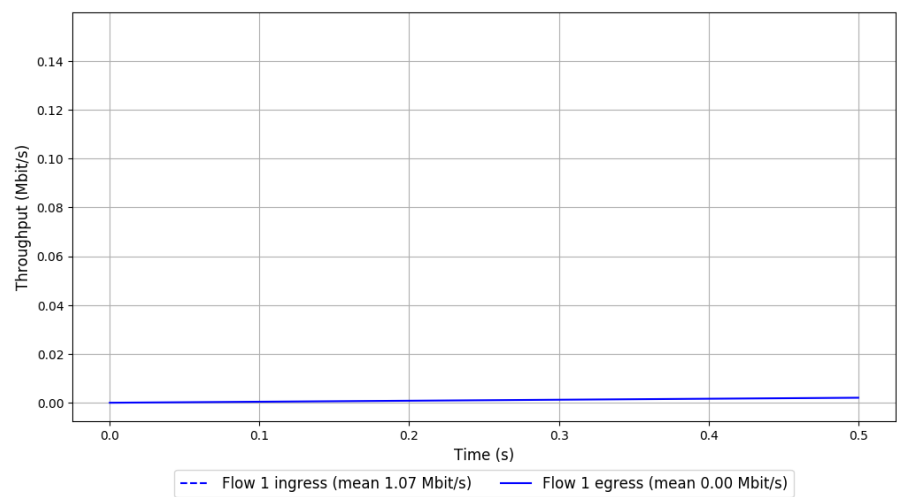
Start at: 2018-08-27 22:15:53

End at: 2018-08-27 22:16:23

Local clock offset: 1.034 ms

Remote clock offset: 7.885 ms

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

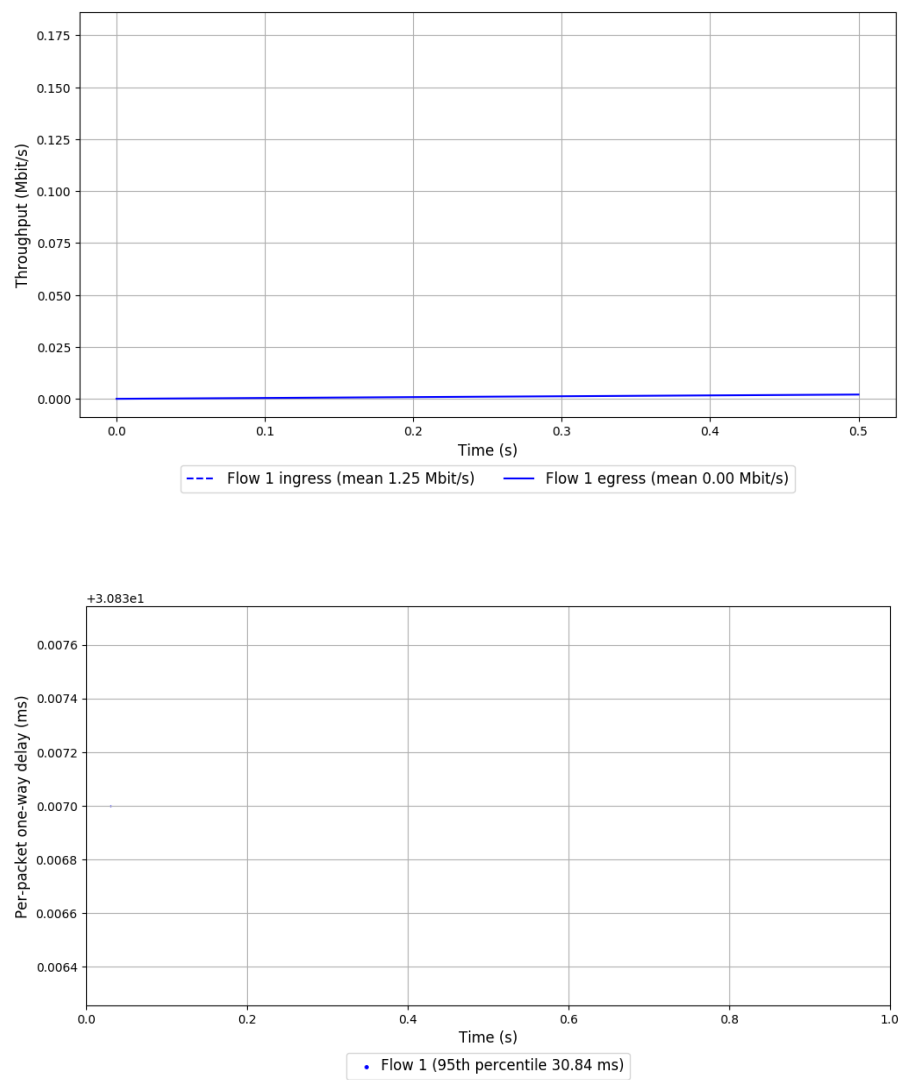
Start at: 2018-08-27 22:37:50

End at: 2018-08-27 22:38:20

Local clock offset: 0.942 ms

Remote clock offset: 8.741 ms

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

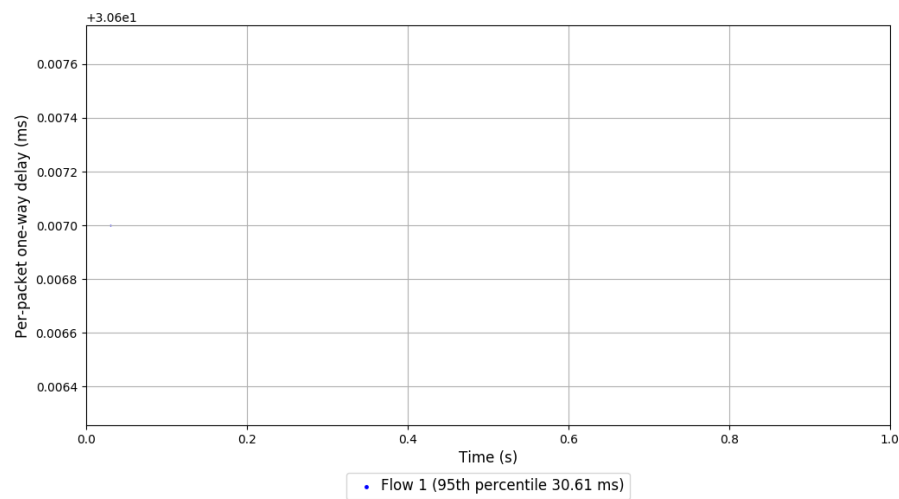
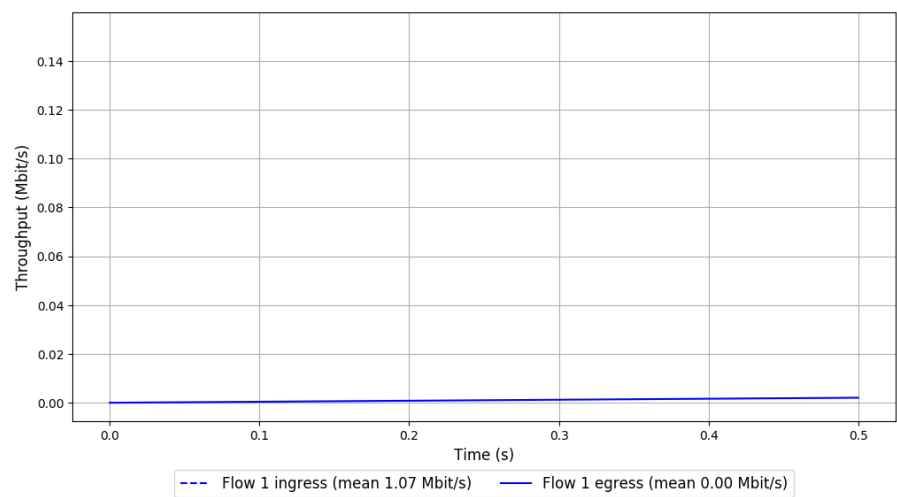
Start at: 2018-08-27 22:59:51

End at: 2018-08-27 23:00:21

Local clock offset: 0.964 ms

Remote clock offset: 7.955 ms

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

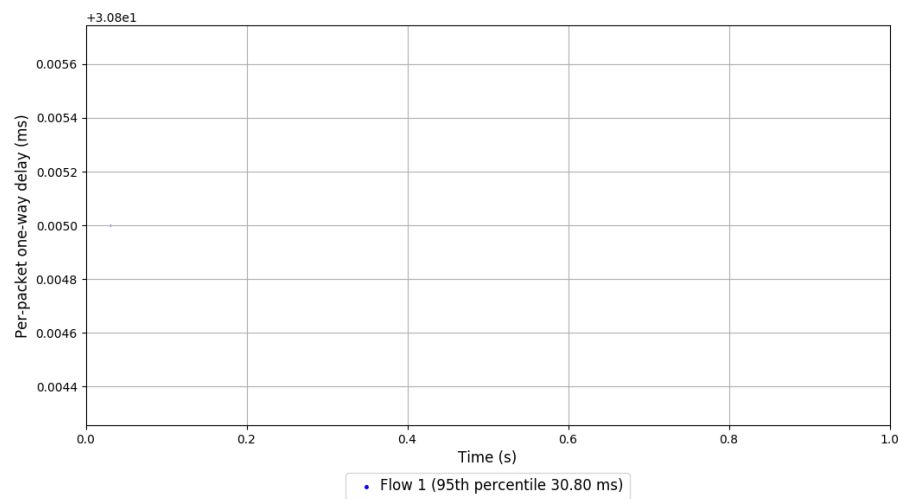
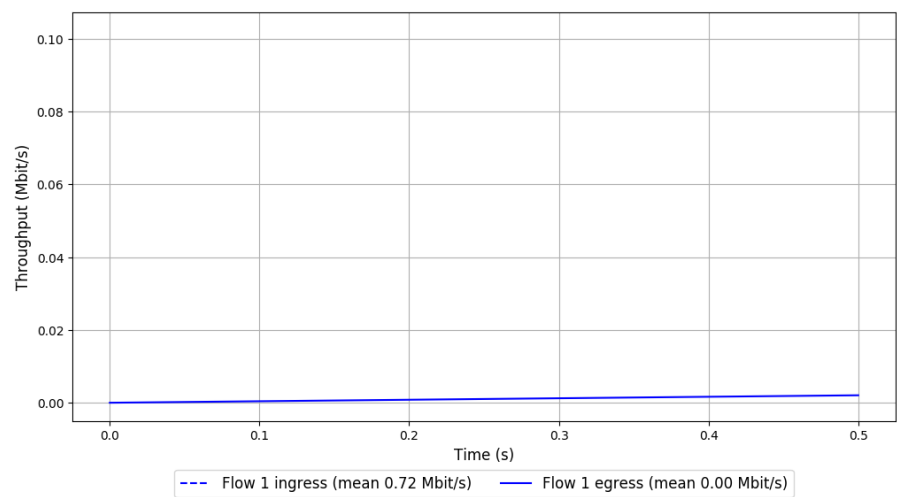
Start at: 2018-08-27 23:21:50

End at: 2018-08-27 23:22:20

Local clock offset: 1.026 ms

Remote clock offset: 7.742 ms

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

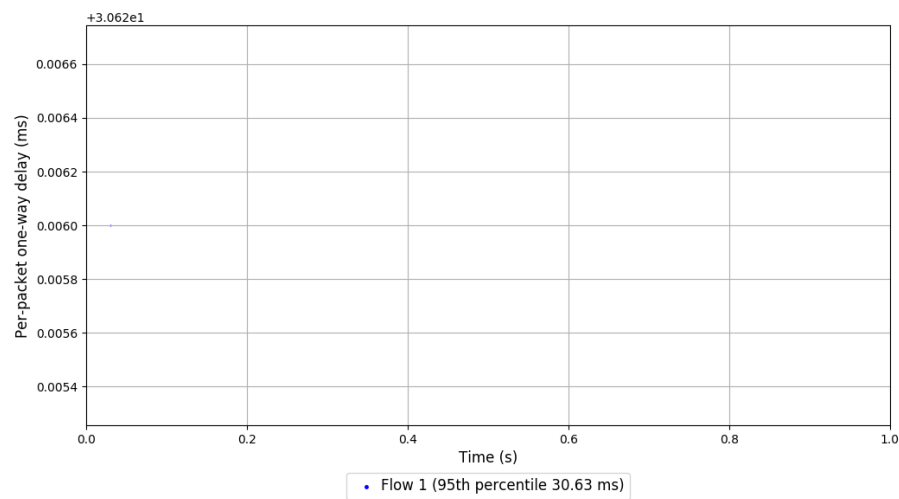
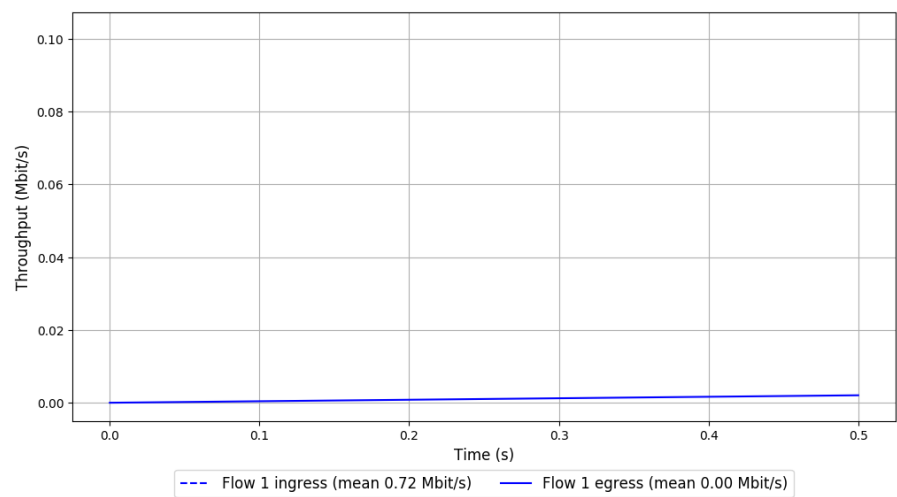
Start at: 2018-08-27 23:43:45

End at: 2018-08-27 23:44:15

Local clock offset: 0.903 ms

Remote clock offset: 5.166 ms

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

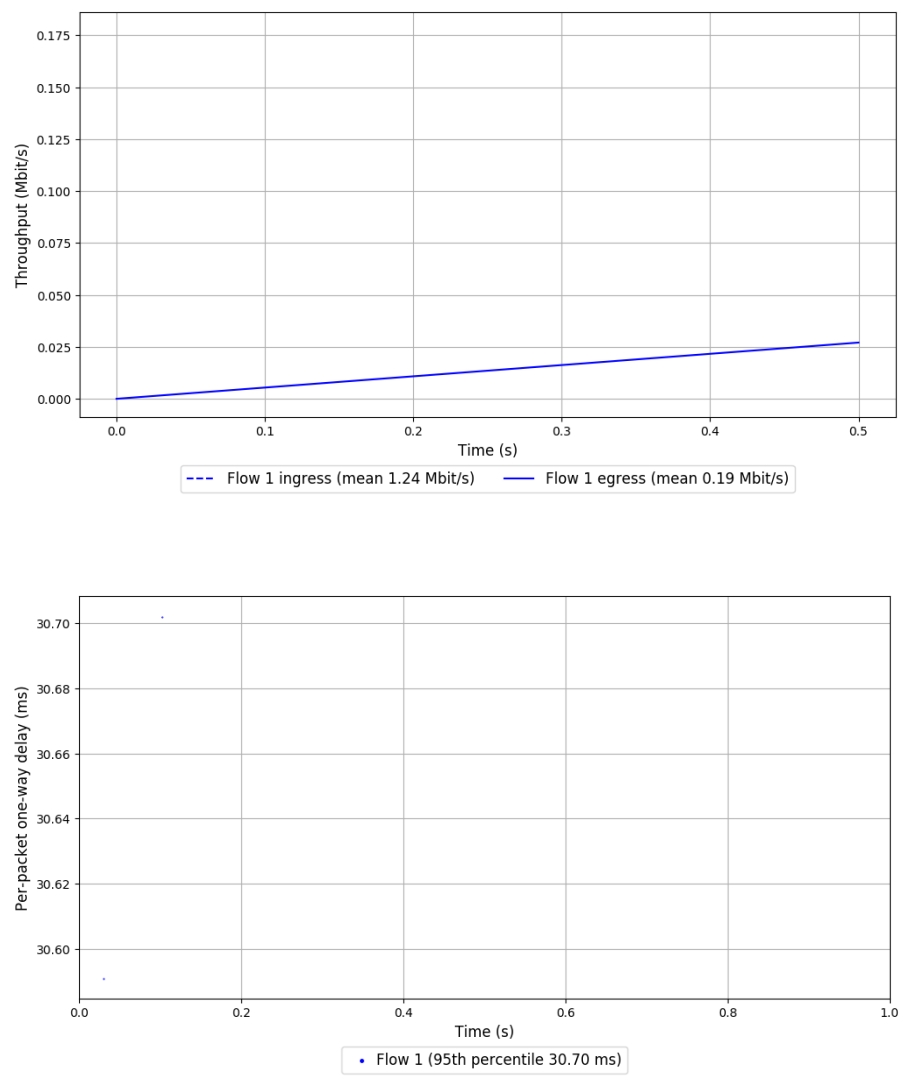
Start at: 2018-08-28 00:05:41

End at: 2018-08-28 00:06:11

Local clock offset: 0.726 ms

Remote clock offset: 3.36 ms

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-08-27 20:51:43

End at: 2018-08-27 20:52:13

Local clock offset: 1.341 ms

Remote clock offset: 4.078 ms

Below is generated by plot.py at 2018-08-28 00:22:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.29 Mbit/s

95th percentile per-packet one-way delay: 67.959 ms

Loss rate: 0.73%

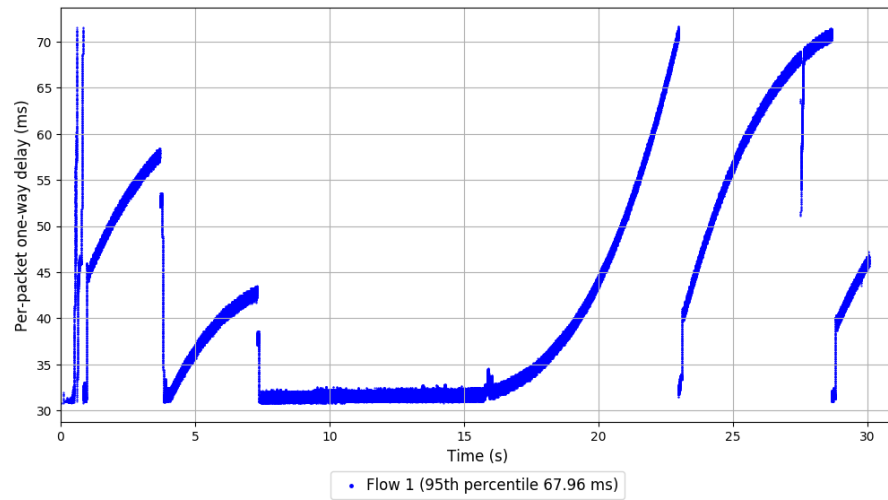
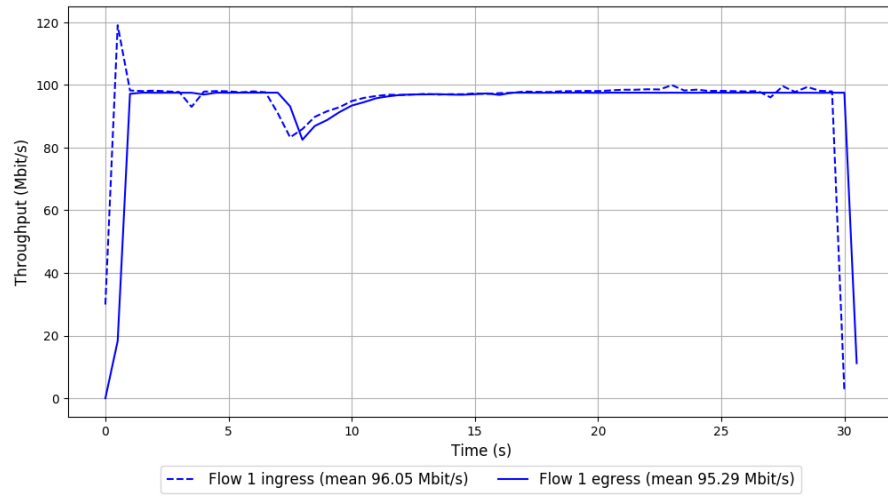
-- Flow 1:

Average throughput: 95.29 Mbit/s

95th percentile per-packet one-way delay: 67.959 ms

Loss rate: 0.73%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-08-27 21:13:45

End at: 2018-08-27 21:14:15

Local clock offset: 1.285 ms

Remote clock offset: 4.938 ms

Below is generated by plot.py at 2018-08-28 00:22:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.87 Mbit/s

95th percentile per-packet one-way delay: 65.890 ms

Loss rate: 0.58%

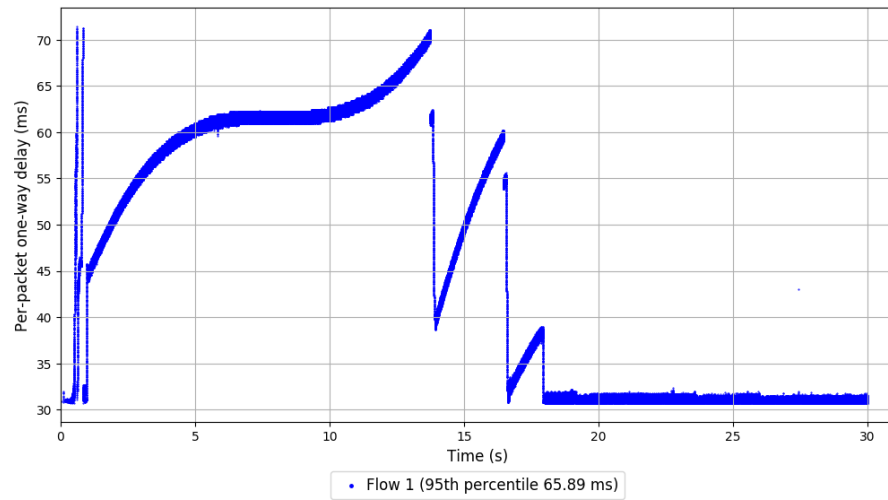
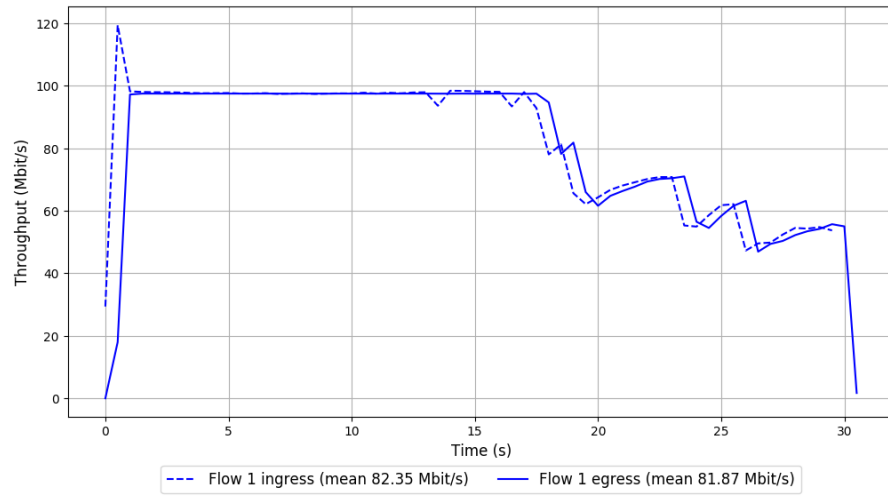
-- Flow 1:

Average throughput: 81.87 Mbit/s

95th percentile per-packet one-way delay: 65.890 ms

Loss rate: 0.58%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-08-27 21:35:49

End at: 2018-08-27 21:36:20

Local clock offset: 1.293 ms

Remote clock offset: 6.139 ms

Below is generated by plot.py at 2018-08-28 00:22:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.30 Mbit/s

95th percentile per-packet one-way delay: 69.033 ms

Loss rate: 0.44%

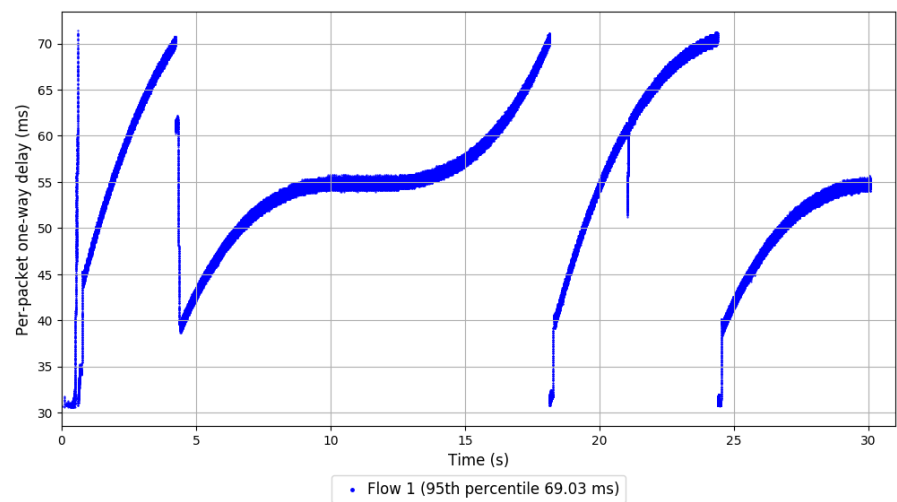
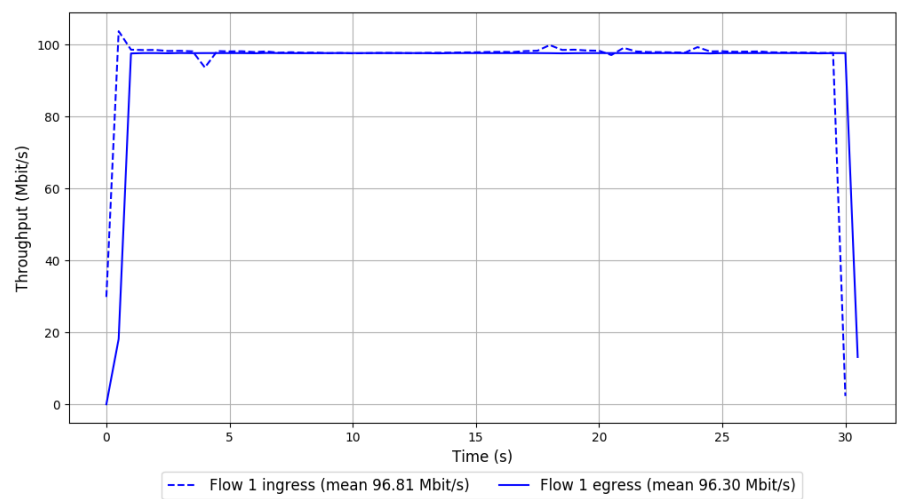
-- Flow 1:

Average throughput: 96.30 Mbit/s

95th percentile per-packet one-way delay: 69.033 ms

Loss rate: 0.44%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-08-27 21:57:46

End at: 2018-08-27 21:58:16

Local clock offset: 1.029 ms

Remote clock offset: 6.492 ms

Below is generated by plot.py at 2018-08-28 00:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 68.564 ms

Loss rate: 0.72%

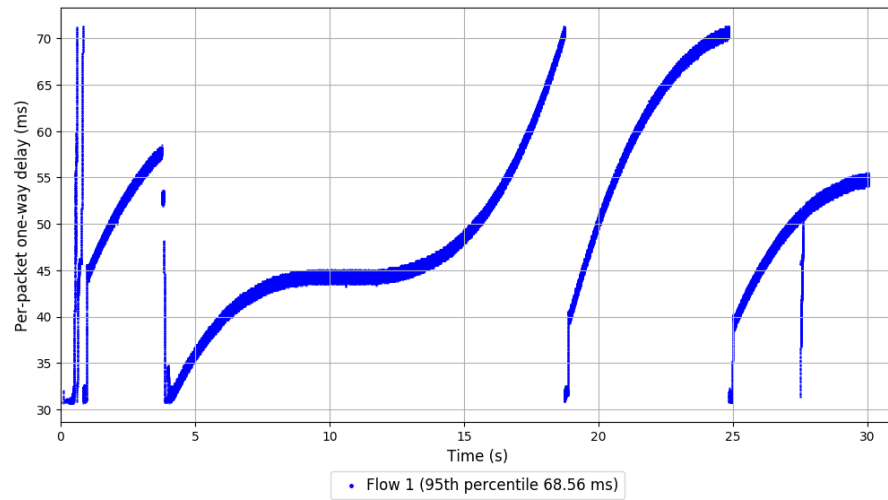
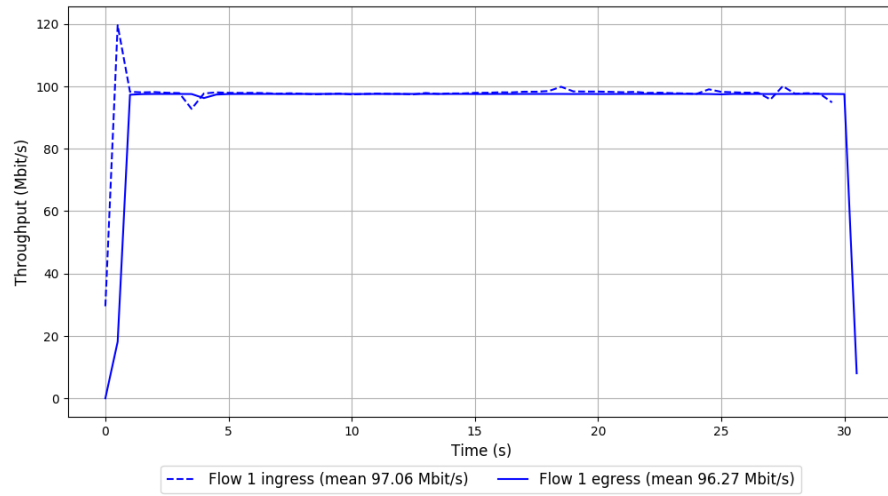
-- Flow 1:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 68.564 ms

Loss rate: 0.72%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-08-27 22:19:45

End at: 2018-08-27 22:20:15

Local clock offset: 0.953 ms

Remote clock offset: 7.972 ms

Below is generated by plot.py at 2018-08-28 00:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.30 Mbit/s

95th percentile per-packet one-way delay: 69.126 ms

Loss rate: 0.42%

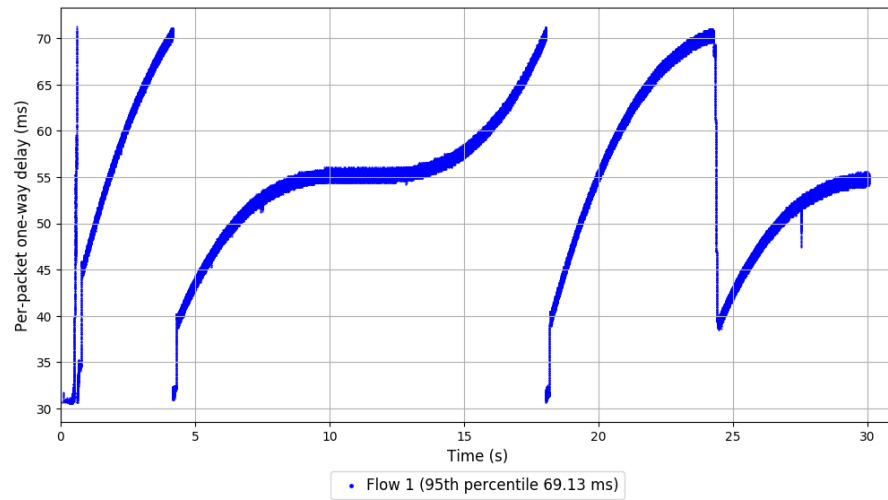
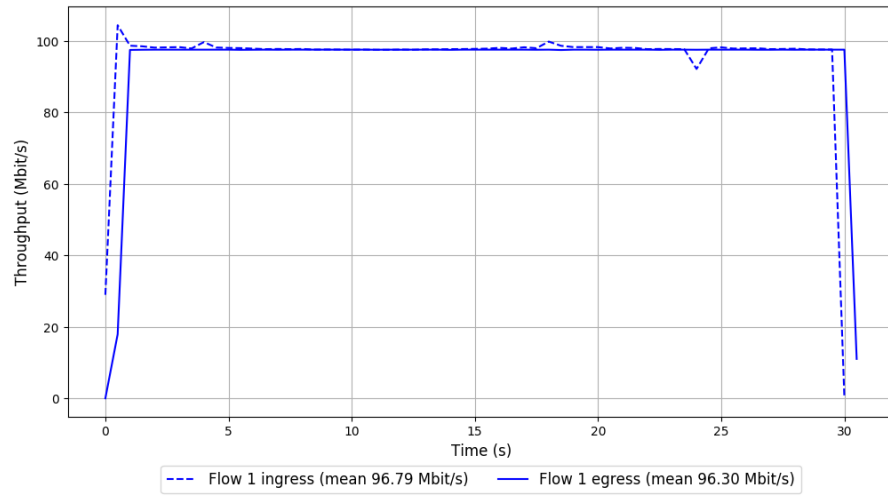
-- Flow 1:

Average throughput: 96.30 Mbit/s

95th percentile per-packet one-way delay: 69.126 ms

Loss rate: 0.42%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-08-27 22:41:42

End at: 2018-08-27 22:42:12

Local clock offset: 0.987 ms

Remote clock offset: 8.621 ms

Below is generated by plot.py at 2018-08-28 00:22:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.40 Mbit/s

95th percentile per-packet one-way delay: 62.675 ms

Loss rate: 0.58%

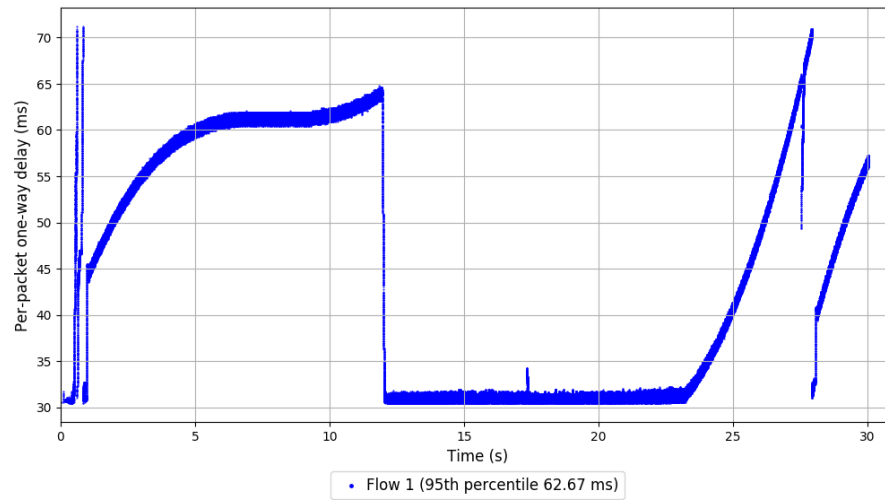
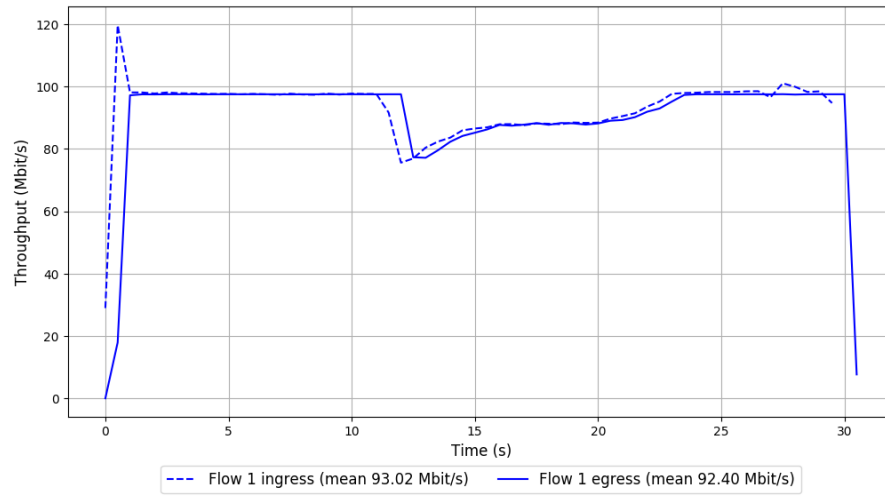
-- Flow 1:

Average throughput: 92.40 Mbit/s

95th percentile per-packet one-way delay: 62.675 ms

Loss rate: 0.58%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-08-27 23:03:43

End at: 2018-08-27 23:04:13

Local clock offset: 1.036 ms

Remote clock offset: 8.14 ms

Below is generated by plot.py at 2018-08-28 00:23:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.29 Mbit/s

95th percentile per-packet one-way delay: 69.025 ms

Loss rate: 0.71%

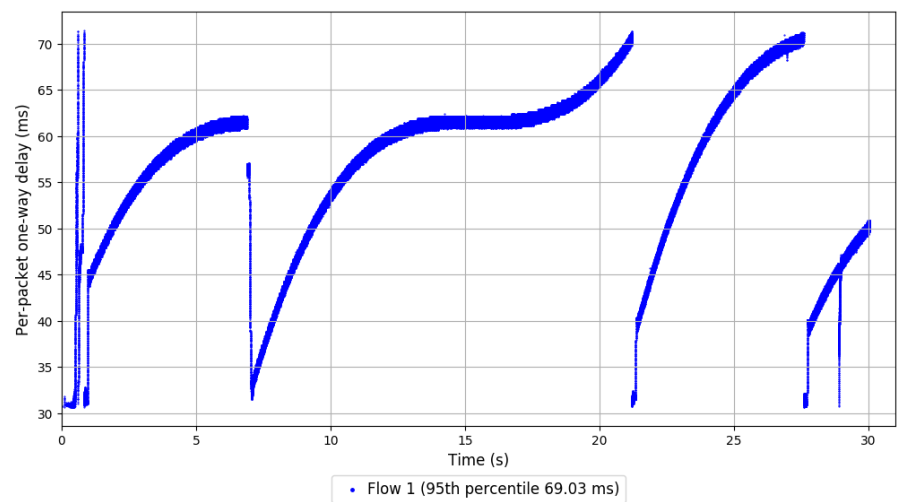
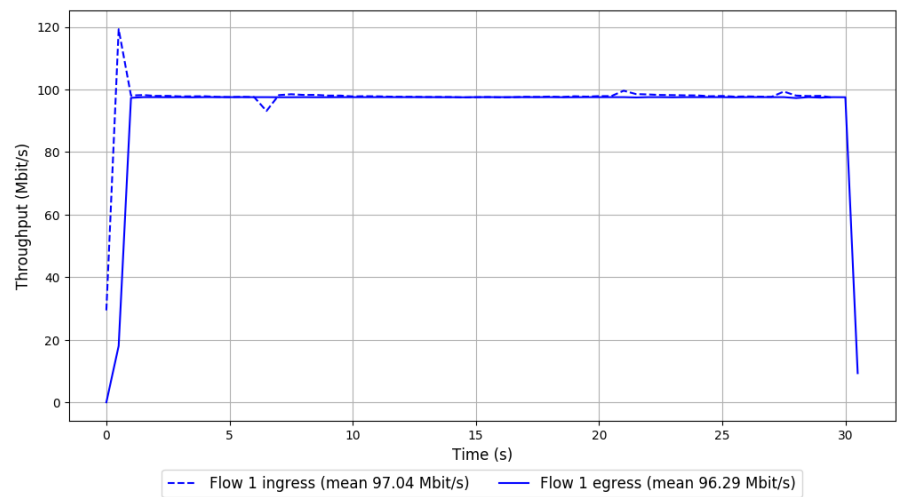
-- Flow 1:

Average throughput: 96.29 Mbit/s

95th percentile per-packet one-way delay: 69.025 ms

Loss rate: 0.71%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-08-27 23:25:41

End at: 2018-08-27 23:26:11

Local clock offset: 1.075 ms

Remote clock offset: 7.329 ms

Below is generated by plot.py at 2018-08-28 00:23:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.22 Mbit/s

95th percentile per-packet one-way delay: 67.382 ms

Loss rate: 0.48%

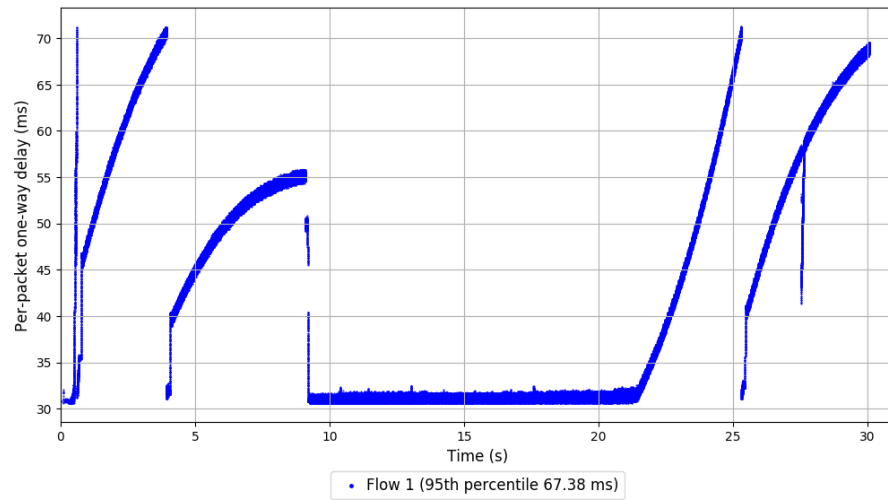
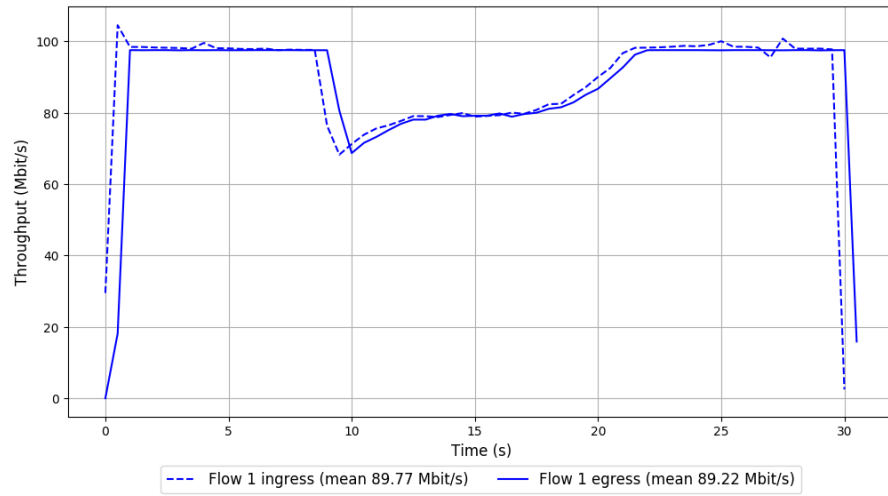
-- Flow 1:

Average throughput: 89.22 Mbit/s

95th percentile per-packet one-way delay: 67.382 ms

Loss rate: 0.48%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-08-27 23:47:37

End at: 2018-08-27 23:48:07

Local clock offset: 0.8 ms

Remote clock offset: 4.859 ms

Below is generated by plot.py at 2018-08-28 00:23:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 68.344 ms

Loss rate: 0.32%

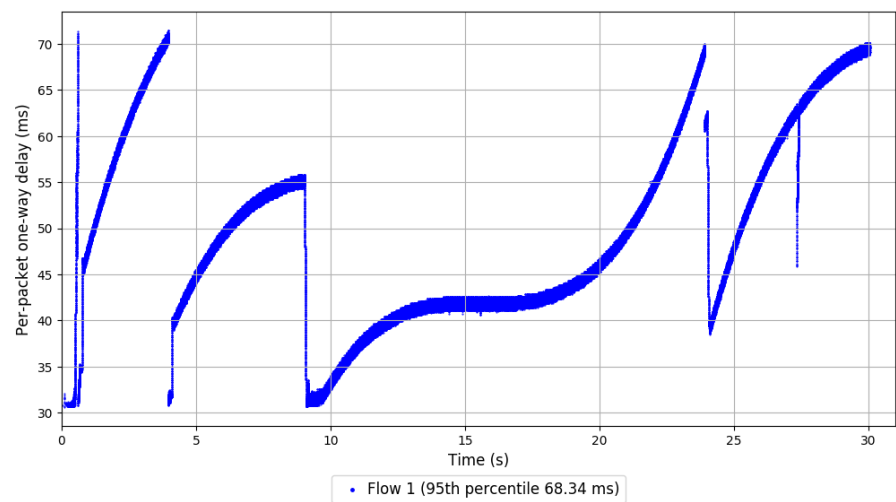
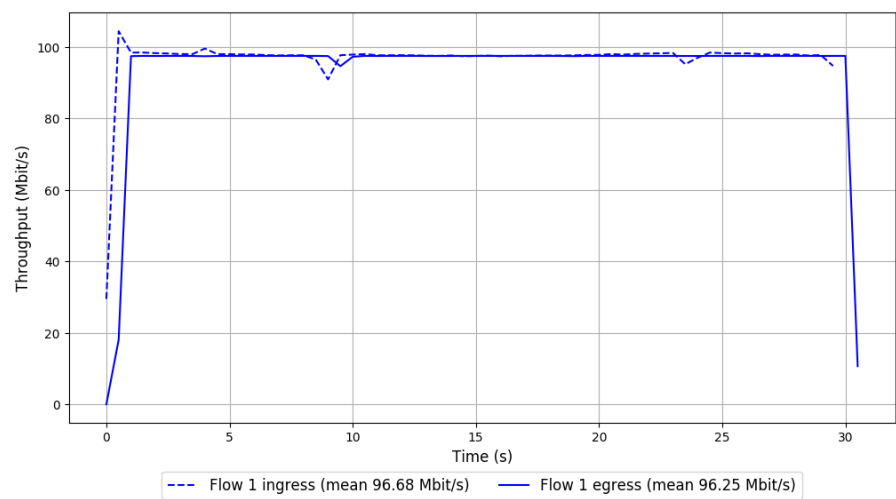
-- Flow 1:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 68.344 ms

Loss rate: 0.32%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-08-28 00:09:31

End at: 2018-08-28 00:10:01

Local clock offset: 0.535 ms

Remote clock offset: 3.174 ms

Below is generated by plot.py at 2018-08-28 00:23:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.92 Mbit/s

95th percentile per-packet one-way delay: 66.239 ms

Loss rate: 0.58%

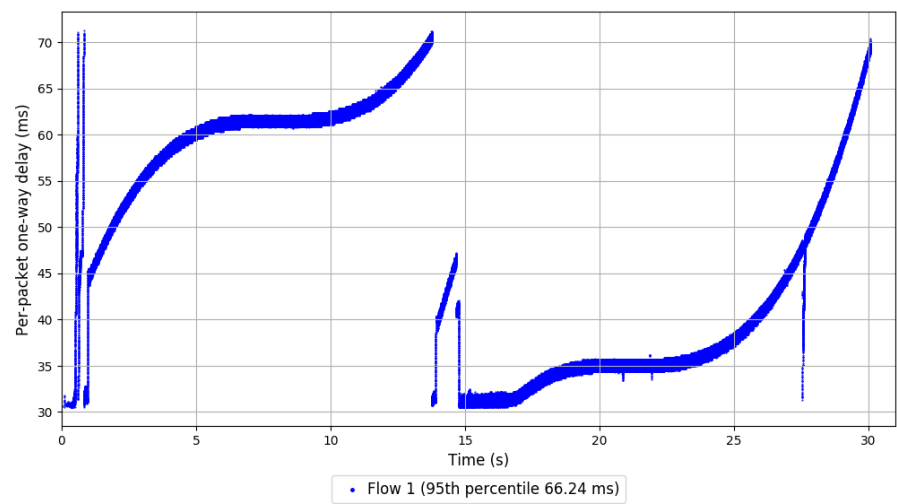
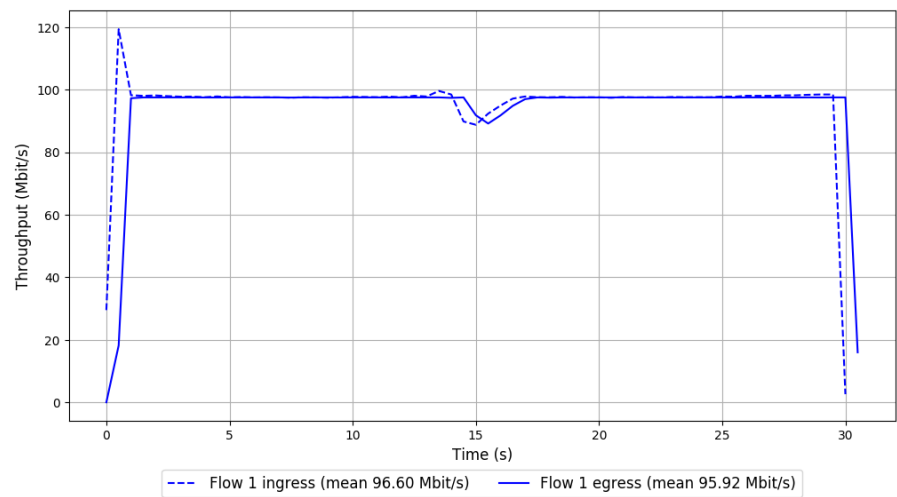
-- Flow 1:

Average throughput: 95.92 Mbit/s

95th percentile per-packet one-way delay: 66.239 ms

Loss rate: 0.58%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-08-27 20:54:20

End at: 2018-08-27 20:54:50

Local clock offset: 1.42 ms

Remote clock offset: 4.016 ms

Below is generated by plot.py at 2018-08-28 00:23:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.28 Mbit/s

95th percentile per-packet one-way delay: 66.130 ms

Loss rate: 9.15%

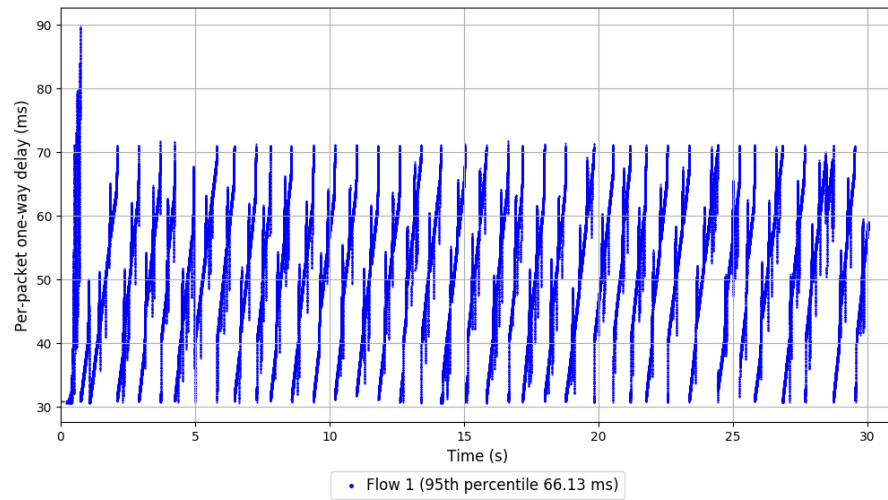
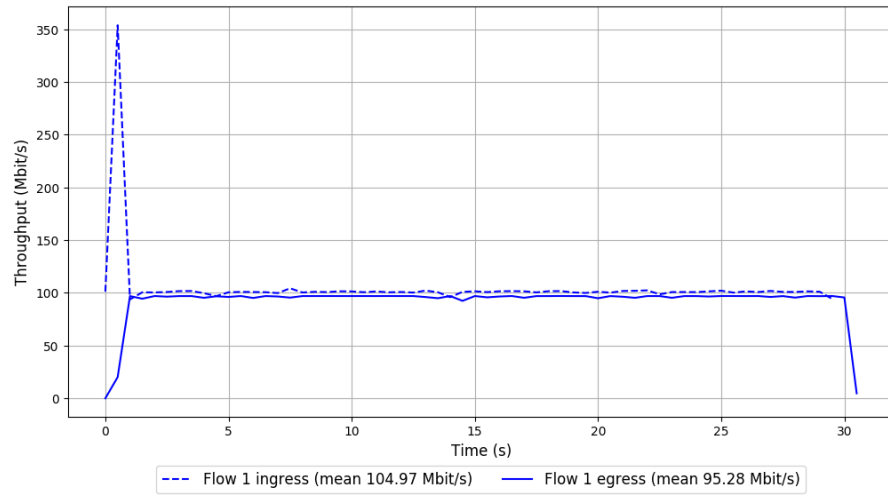
-- Flow 1:

Average throughput: 95.28 Mbit/s

95th percentile per-packet one-way delay: 66.130 ms

Loss rate: 9.15%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-08-27 21:16:22

End at: 2018-08-27 21:16:52

Local clock offset: 1.293 ms

Remote clock offset: 4.681 ms

Below is generated by plot.py at 2018-08-28 00:23:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.32 Mbit/s

95th percentile per-packet one-way delay: 66.013 ms

Loss rate: 9.33%

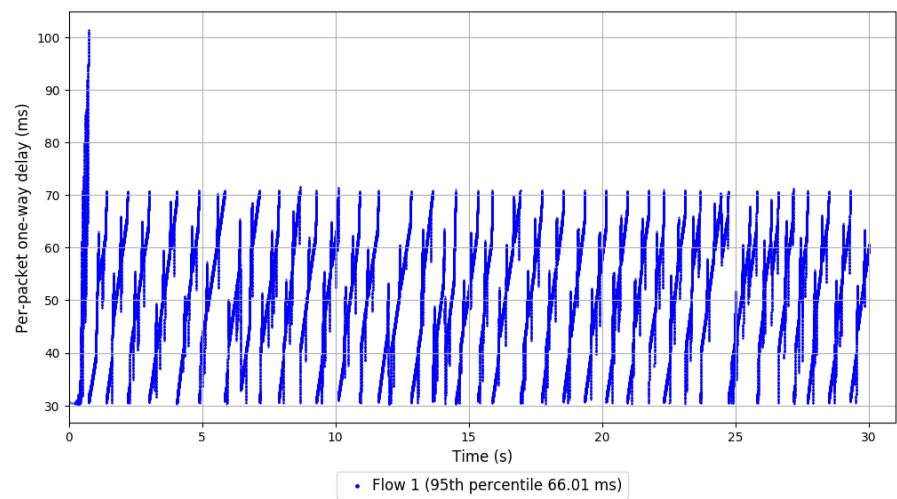
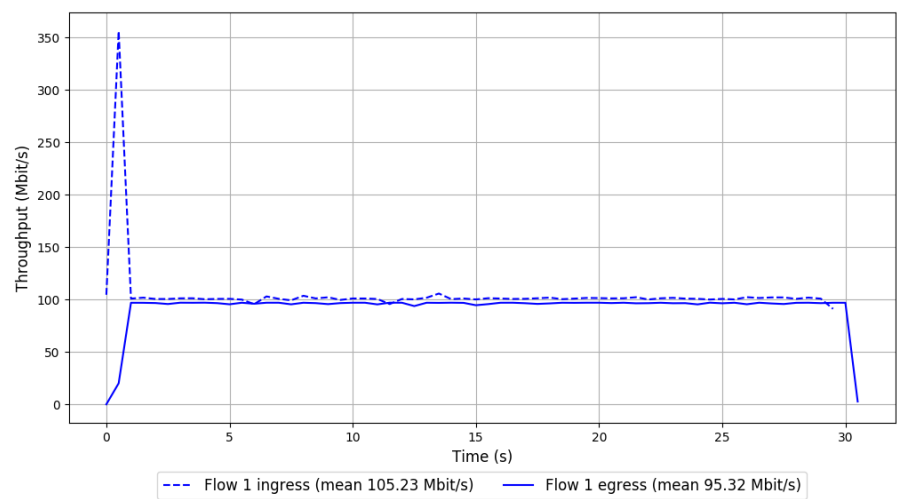
-- Flow 1:

Average throughput: 95.32 Mbit/s

95th percentile per-packet one-way delay: 66.013 ms

Loss rate: 9.33%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-08-27 21:38:27

End at: 2018-08-27 21:38:57

Local clock offset: 1.094 ms

Remote clock offset: 5.983 ms

Below is generated by plot.py at 2018-08-28 00:23:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.14 Mbit/s

95th percentile per-packet one-way delay: 65.650 ms

Loss rate: 9.27%

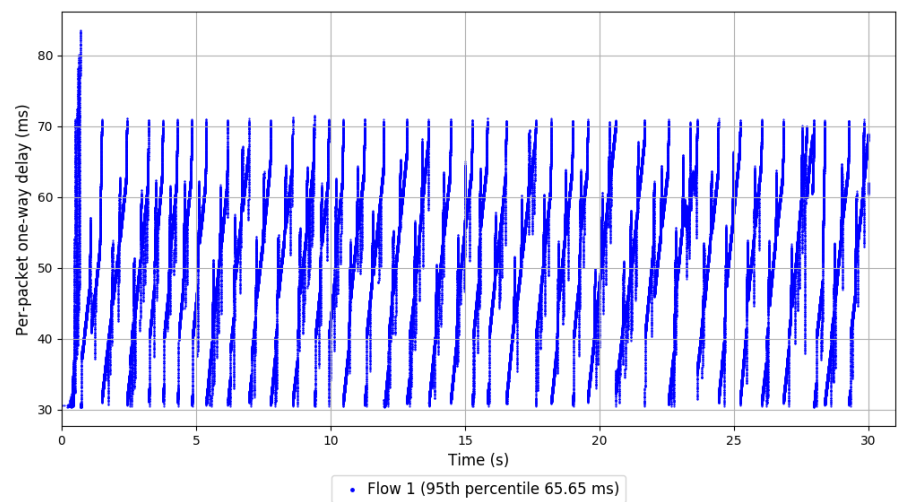
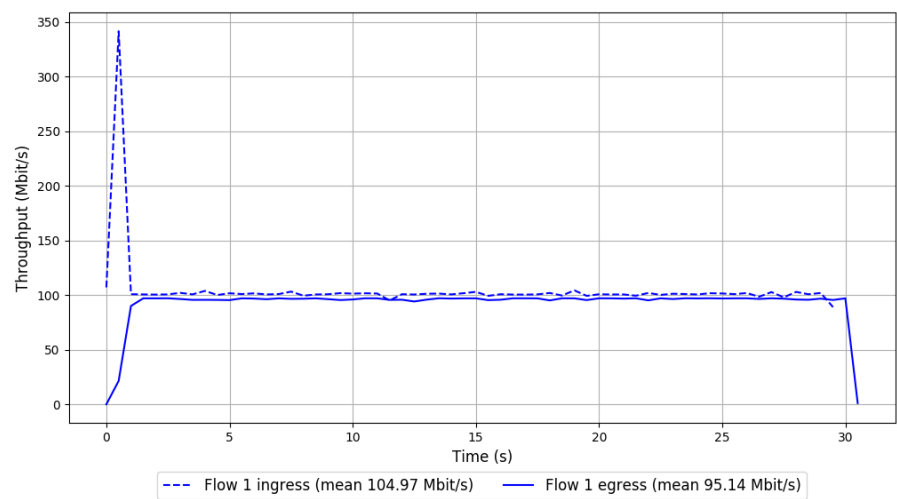
-- Flow 1:

Average throughput: 95.14 Mbit/s

95th percentile per-packet one-way delay: 65.650 ms

Loss rate: 9.27%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-08-27 22:00:24

End at: 2018-08-27 22:00:54

Local clock offset: 1.048 ms

Remote clock offset: 6.652 ms

Below is generated by plot.py at 2018-08-28 00:23:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.92 Mbit/s

95th percentile per-packet one-way delay: 65.910 ms

Loss rate: 9.33%

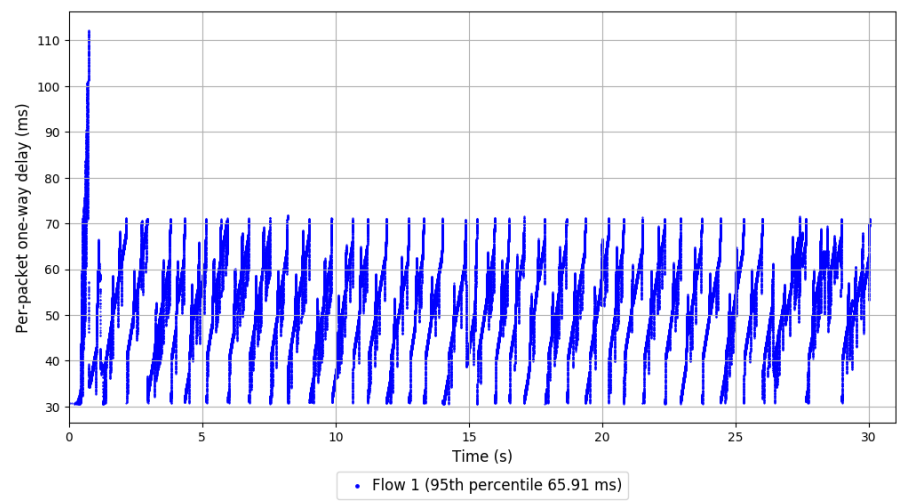
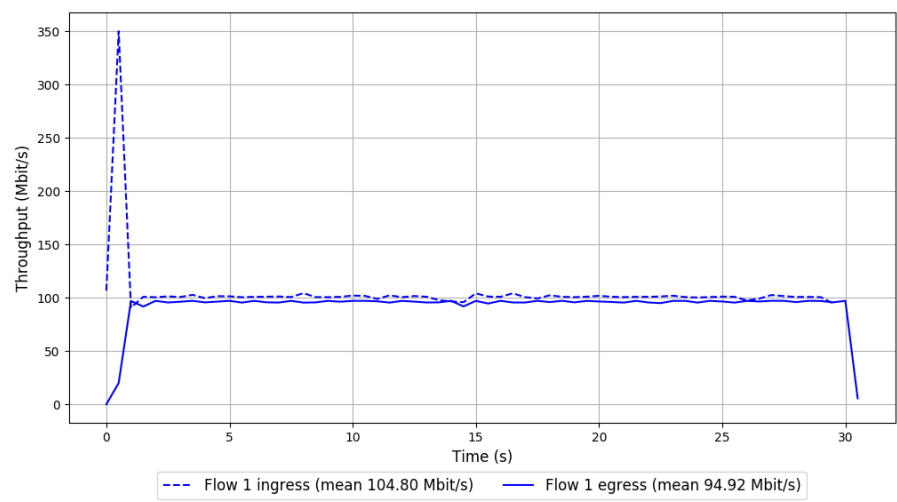
-- Flow 1:

Average throughput: 94.92 Mbit/s

95th percentile per-packet one-way delay: 65.910 ms

Loss rate: 9.33%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-08-27 22:22:22

End at: 2018-08-27 22:22:52

Local clock offset: 0.995 ms

Remote clock offset: 8.272 ms

Below is generated by plot.py at 2018-08-28 00:24:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.90 Mbit/s

95th percentile per-packet one-way delay: 66.447 ms

Loss rate: 9.56%

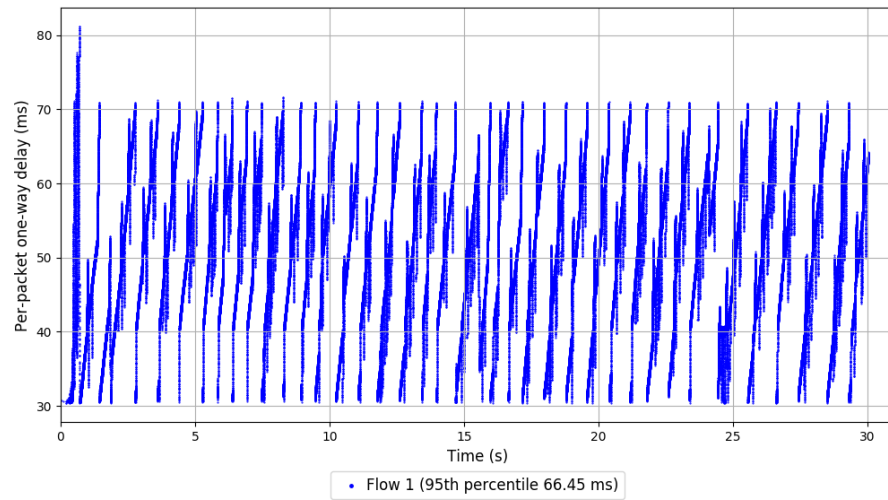
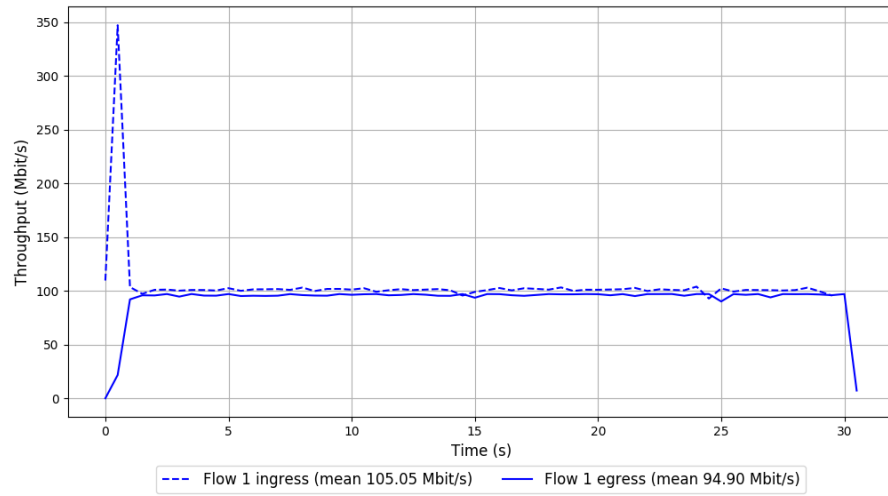
-- Flow 1:

Average throughput: 94.90 Mbit/s

95th percentile per-packet one-way delay: 66.447 ms

Loss rate: 9.56%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-08-27 22:44:19

End at: 2018-08-27 22:44:49

Local clock offset: 0.989 ms

Remote clock offset: 8.575 ms

Below is generated by plot.py at 2018-08-28 00:24:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.64 Mbit/s

95th percentile per-packet one-way delay: 65.914 ms

Loss rate: 9.82%

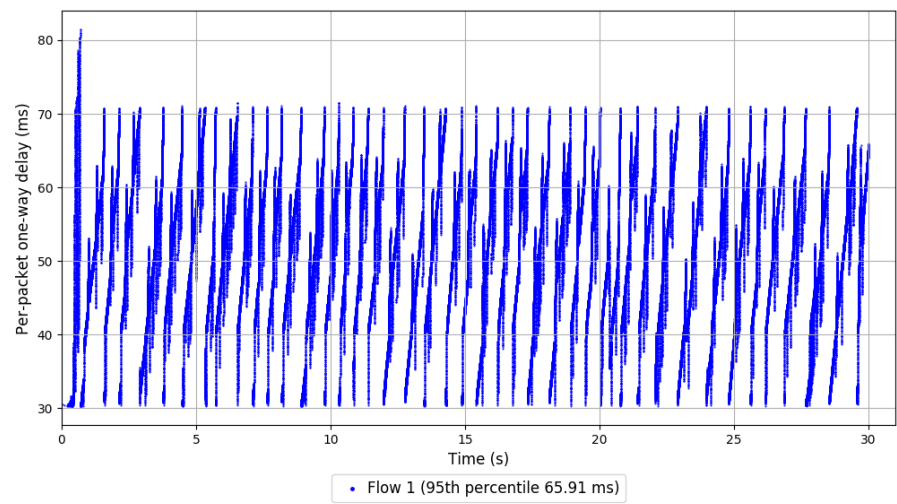
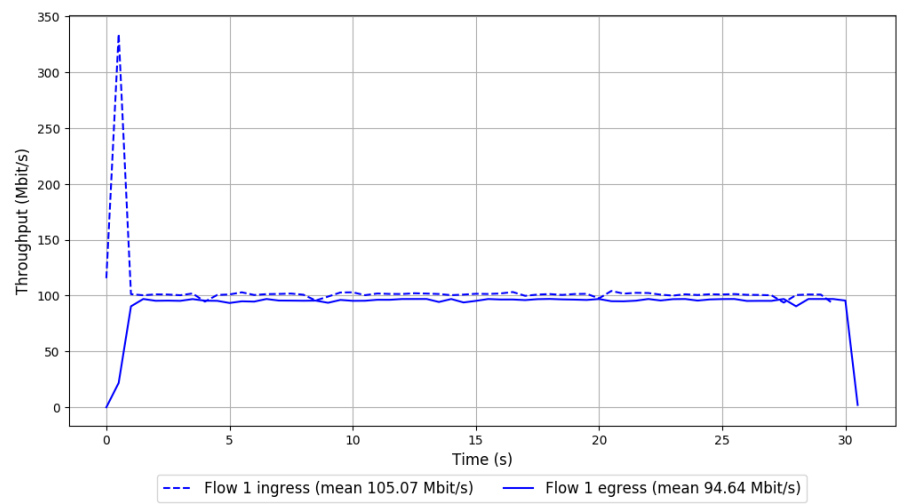
-- Flow 1:

Average throughput: 94.64 Mbit/s

95th percentile per-packet one-way delay: 65.914 ms

Loss rate: 9.82%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-08-27 23:06:21

End at: 2018-08-27 23:06:51

Local clock offset: 1.023 ms

Remote clock offset: 8.149 ms

Below is generated by plot.py at 2018-08-28 00:24:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.95 Mbit/s

95th percentile per-packet one-way delay: 66.402 ms

Loss rate: 9.43%

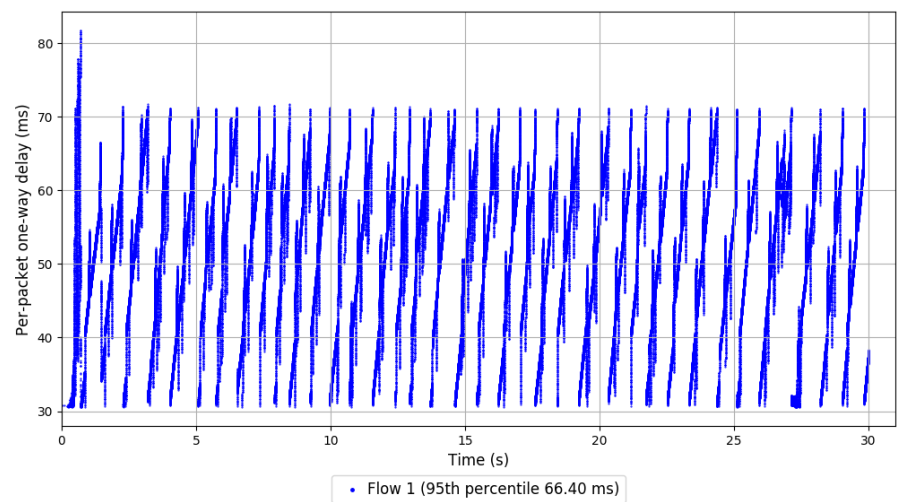
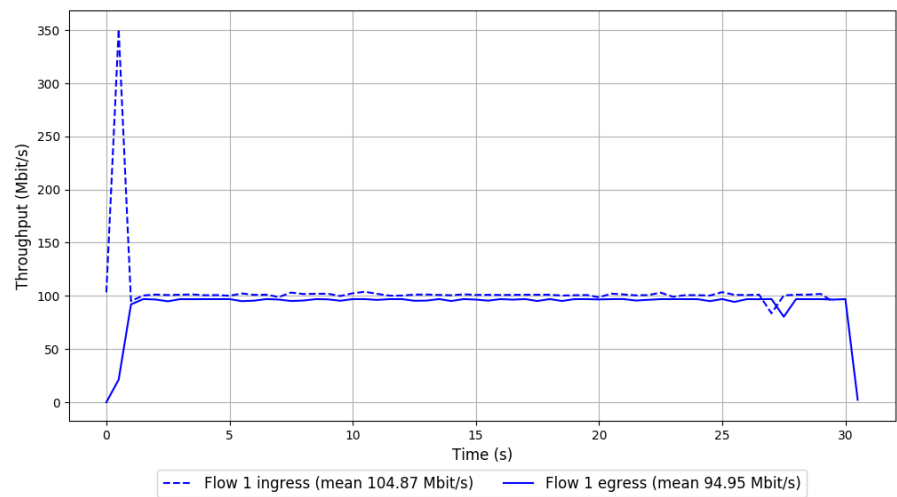
-- Flow 1:

Average throughput: 94.95 Mbit/s

95th percentile per-packet one-way delay: 66.402 ms

Loss rate: 9.43%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-08-27 23:28:18

End at: 2018-08-27 23:28:48

Local clock offset: 1.058 ms

Remote clock offset: 7.005 ms

Below is generated by plot.py at 2018-08-28 00:24:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.20 Mbit/s

95th percentile per-packet one-way delay: 66.662 ms

Loss rate: 9.38%

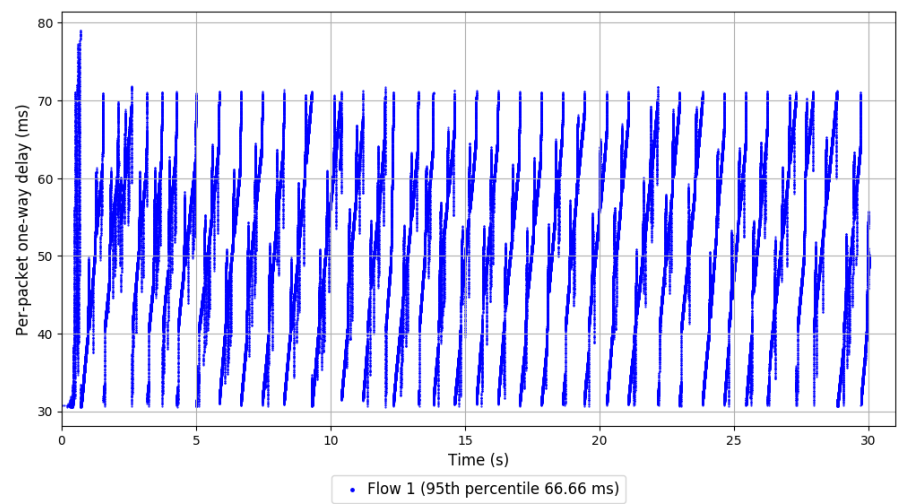
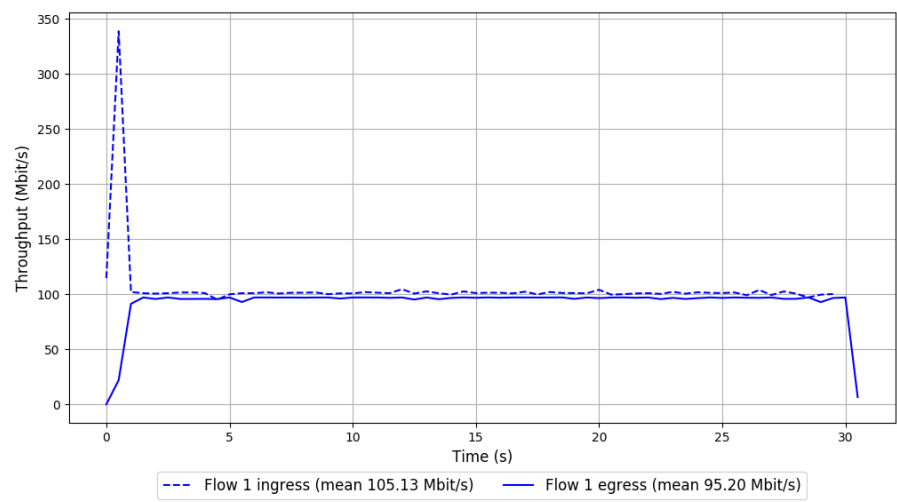
-- Flow 1:

Average throughput: 95.20 Mbit/s

95th percentile per-packet one-way delay: 66.662 ms

Loss rate: 9.38%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-08-27 23:50:14

End at: 2018-08-27 23:50:44

Local clock offset: 0.885 ms

Remote clock offset: 4.724 ms

Below is generated by plot.py at 2018-08-28 00:25:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.87 Mbit/s

95th percentile per-packet one-way delay: 66.862 ms

Loss rate: 9.38%

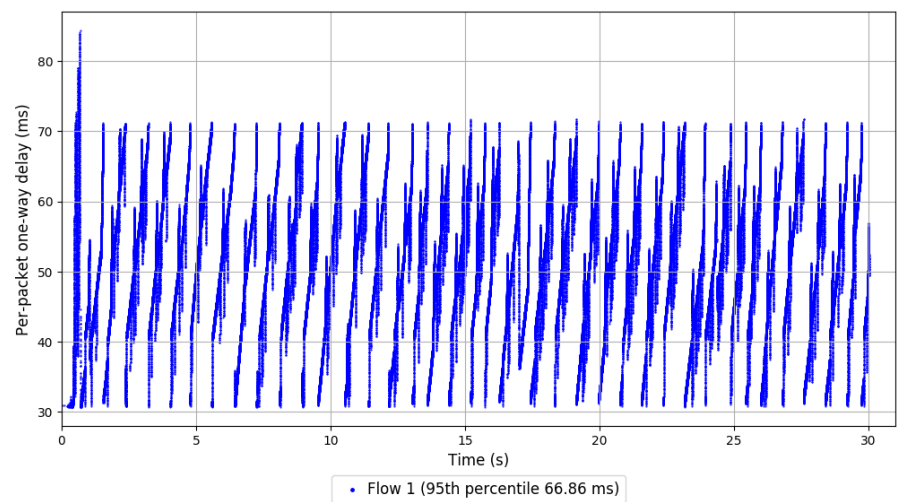
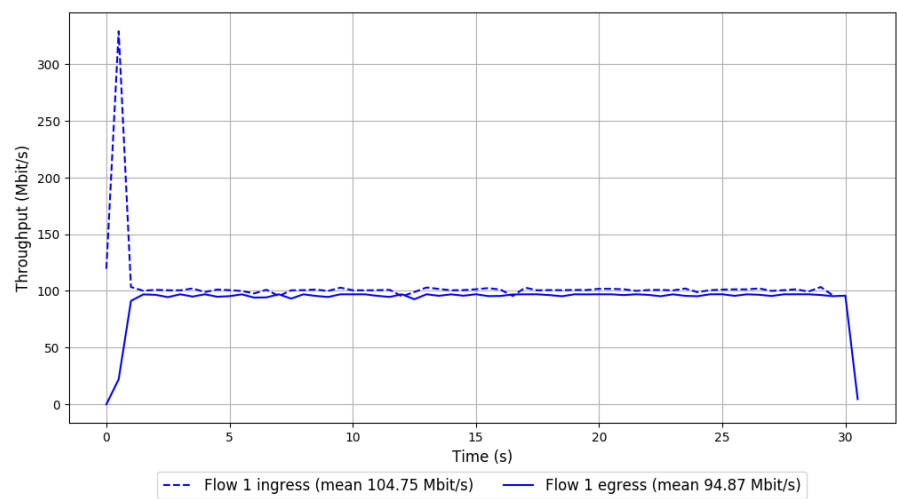
-- Flow 1:

Average throughput: 94.87 Mbit/s

95th percentile per-packet one-way delay: 66.862 ms

Loss rate: 9.38%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-08-28 00:12:08

End at: 2018-08-28 00:12:38

Local clock offset: 0.485 ms

Remote clock offset: 2.999 ms

Below is generated by plot.py at 2018-08-28 00:25:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.36 Mbit/s

95th percentile per-packet one-way delay: 66.054 ms

Loss rate: 9.32%

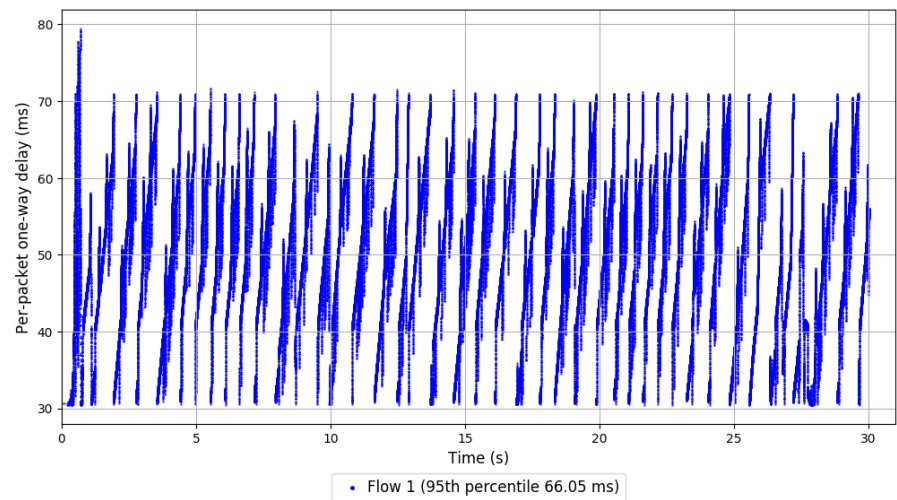
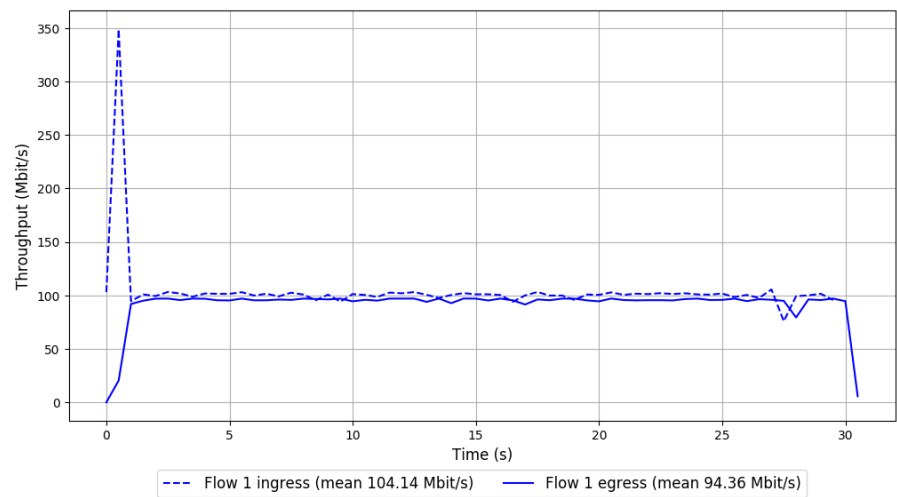
-- Flow 1:

Average throughput: 94.36 Mbit/s

95th percentile per-packet one-way delay: 66.054 ms

Loss rate: 9.32%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-08-27 20:55:39

End at: 2018-08-27 20:56:09

Local clock offset: 1.506 ms

Remote clock offset: 4.073 ms

Below is generated by plot.py at 2018-08-28 00:25:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.47 Mbit/s

95th percentile per-packet one-way delay: 46.993 ms

Loss rate: 0.93%

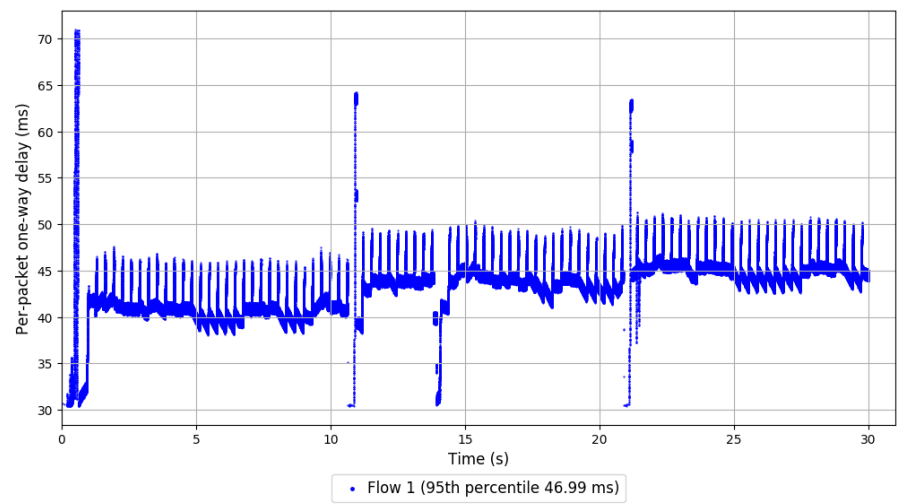
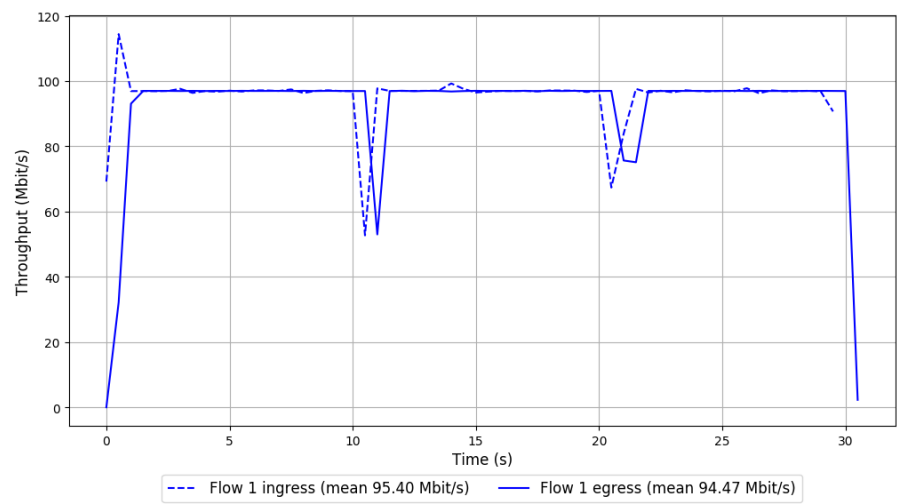
-- Flow 1:

Average throughput: 94.47 Mbit/s

95th percentile per-packet one-way delay: 46.993 ms

Loss rate: 0.93%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-08-27 21:17:41

End at: 2018-08-27 21:18:11

Local clock offset: 1.268 ms

Remote clock offset: 4.938 ms

Below is generated by plot.py at 2018-08-28 00:25:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.46 Mbit/s

95th percentile per-packet one-way delay: 48.127 ms

Loss rate: 0.81%

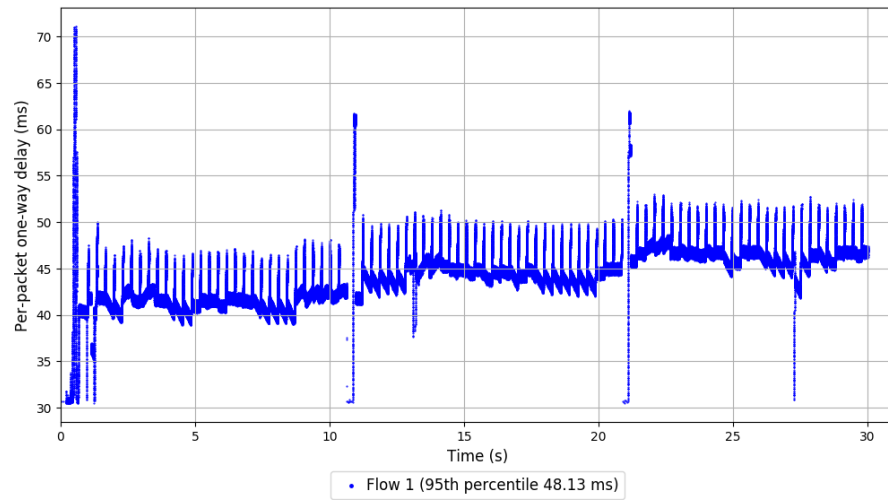
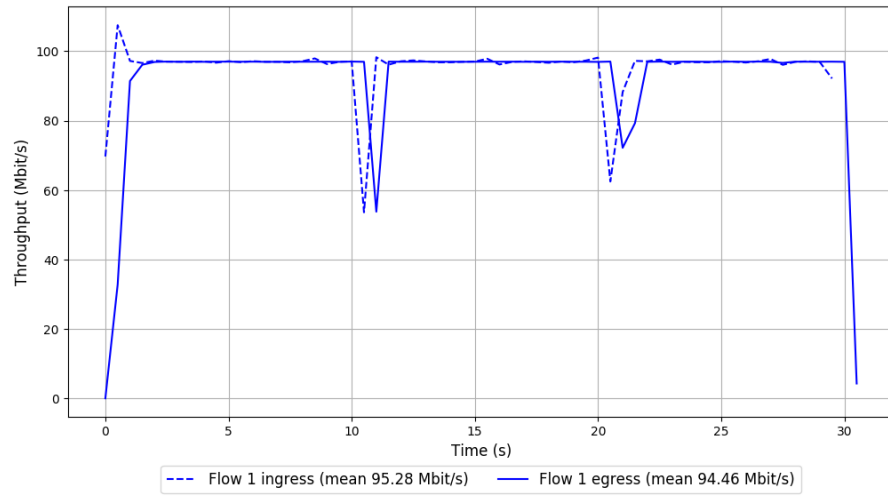
-- Flow 1:

Average throughput: 94.46 Mbit/s

95th percentile per-packet one-way delay: 48.127 ms

Loss rate: 0.81%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-08-27 21:39:45

End at: 2018-08-27 21:40:15

Local clock offset: 1.146 ms

Remote clock offset: 6.237 ms

Below is generated by plot.py at 2018-08-28 00:26:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.42 Mbit/s

95th percentile per-packet one-way delay: 46.884 ms

Loss rate: 0.95%

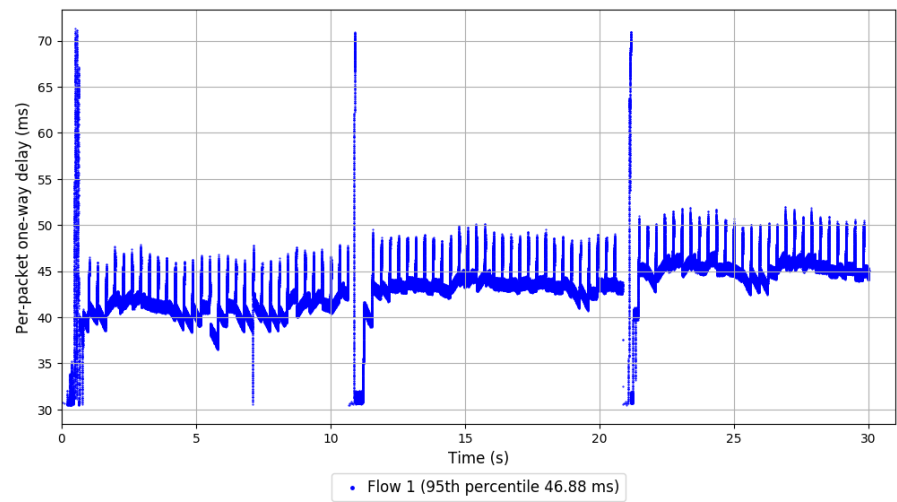
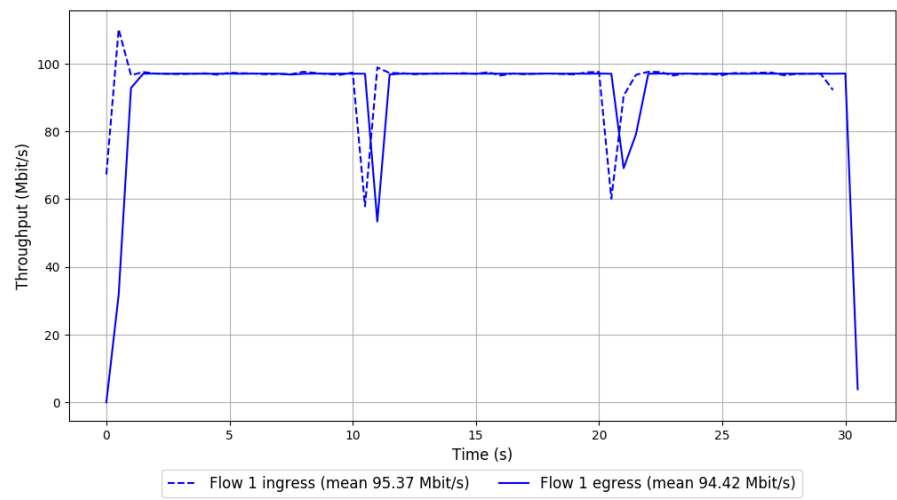
-- Flow 1:

Average throughput: 94.42 Mbit/s

95th percentile per-packet one-way delay: 46.884 ms

Loss rate: 0.95%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-08-27 22:01:43

End at: 2018-08-27 22:02:13

Local clock offset: 1.072 ms

Remote clock offset: 6.763 ms

Below is generated by plot.py at 2018-08-28 00:26:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.43 Mbit/s

95th percentile per-packet one-way delay: 47.588 ms

Loss rate: 0.82%

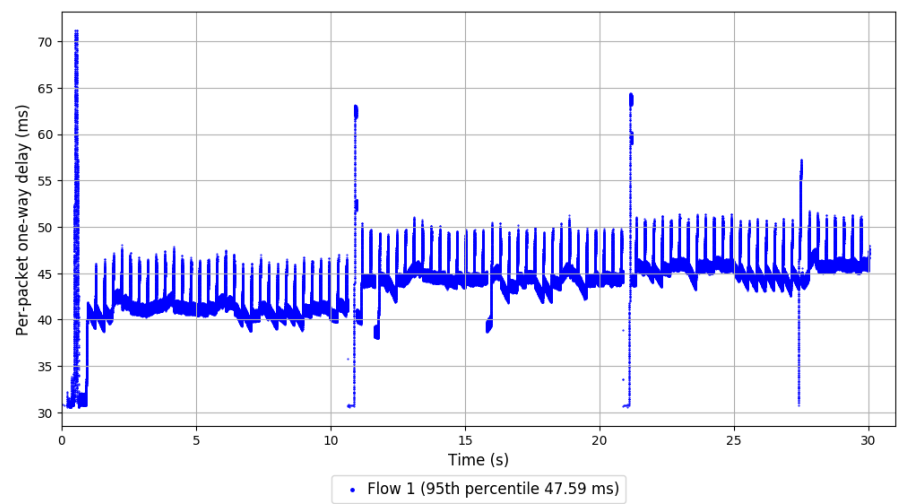
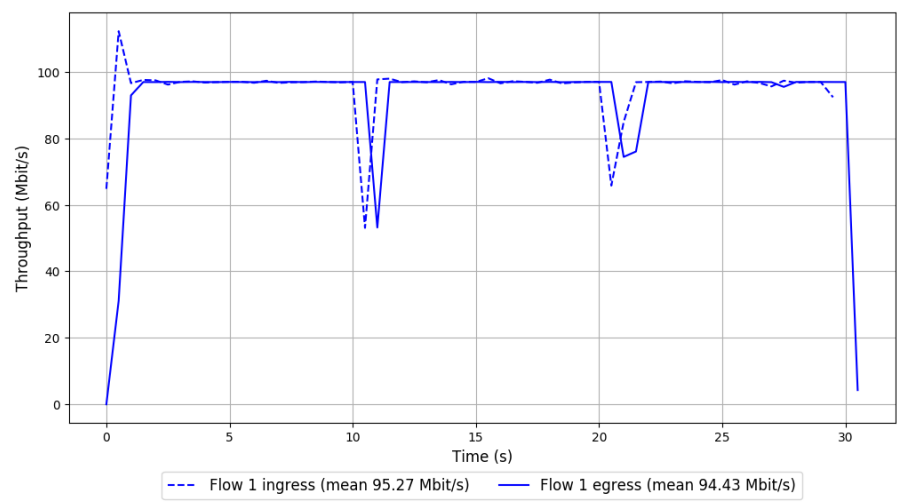
-- Flow 1:

Average throughput: 94.43 Mbit/s

95th percentile per-packet one-way delay: 47.588 ms

Loss rate: 0.82%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-08-27 22:23:41

End at: 2018-08-27 22:24:11

Local clock offset: 1.092 ms

Remote clock offset: 8.575 ms

Below is generated by plot.py at 2018-08-28 00:26:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.47 Mbit/s

95th percentile per-packet one-way delay: 48.008 ms

Loss rate: 1.05%

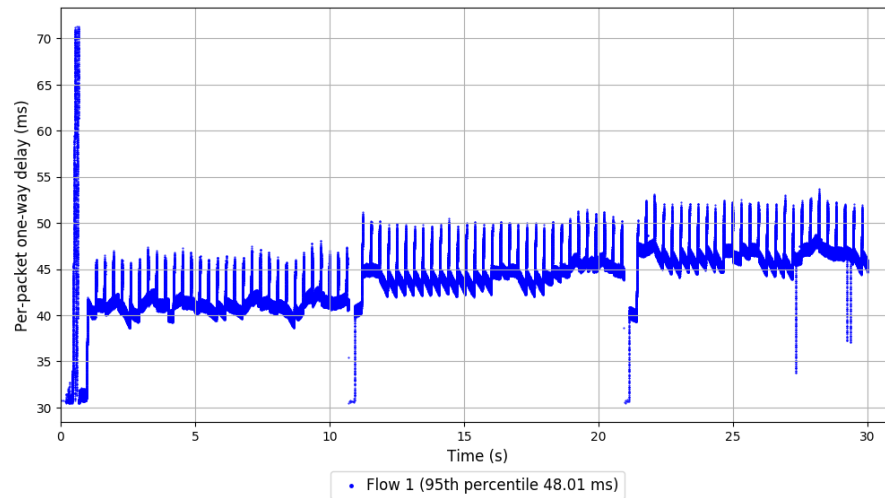
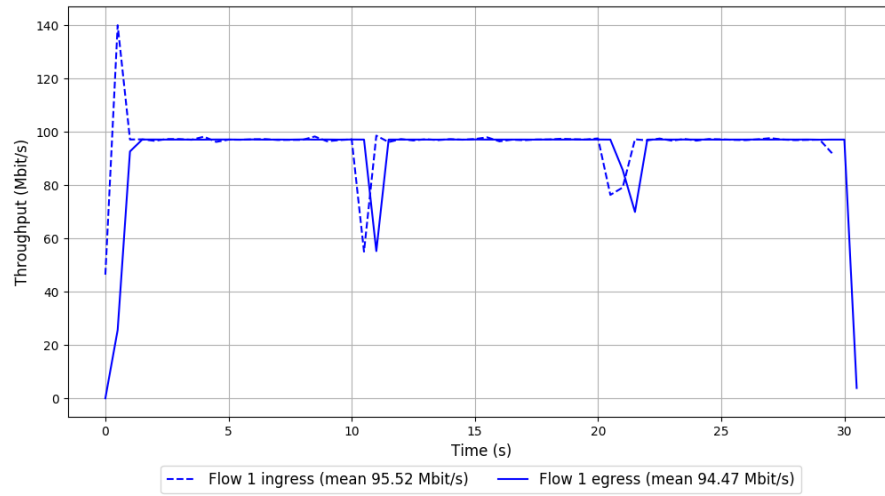
-- Flow 1:

Average throughput: 94.47 Mbit/s

95th percentile per-packet one-way delay: 48.008 ms

Loss rate: 1.05%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-08-27 22:45:38

End at: 2018-08-27 22:46:08

Local clock offset: 0.994 ms

Remote clock offset: 8.73 ms

Below is generated by plot.py at 2018-08-28 00:26:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.50 Mbit/s

95th percentile per-packet one-way delay: 48.829 ms

Loss rate: 0.79%

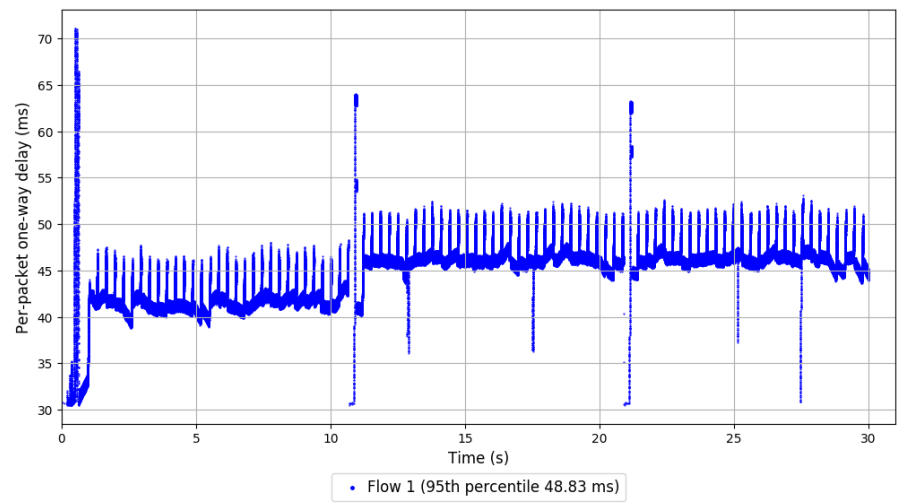
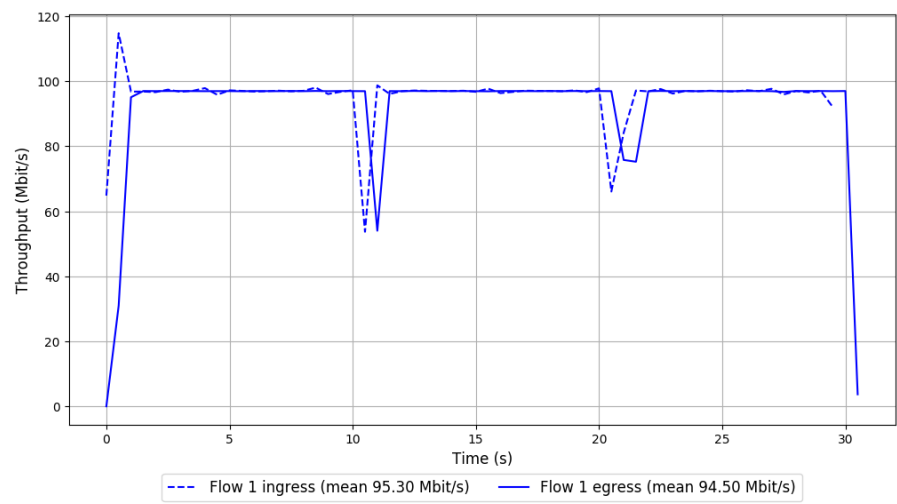
-- Flow 1:

Average throughput: 94.50 Mbit/s

95th percentile per-packet one-way delay: 48.829 ms

Loss rate: 0.79%

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

Start at: 2018-08-27 23:07:39

End at: 2018-08-27 23:08:09

Local clock offset: 1.03 ms

Remote clock offset: 8.084 ms

Below is generated by plot.py at 2018-08-28 00:26:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.39 Mbit/s

95th percentile per-packet one-way delay: 47.310 ms

Loss rate: 0.90%

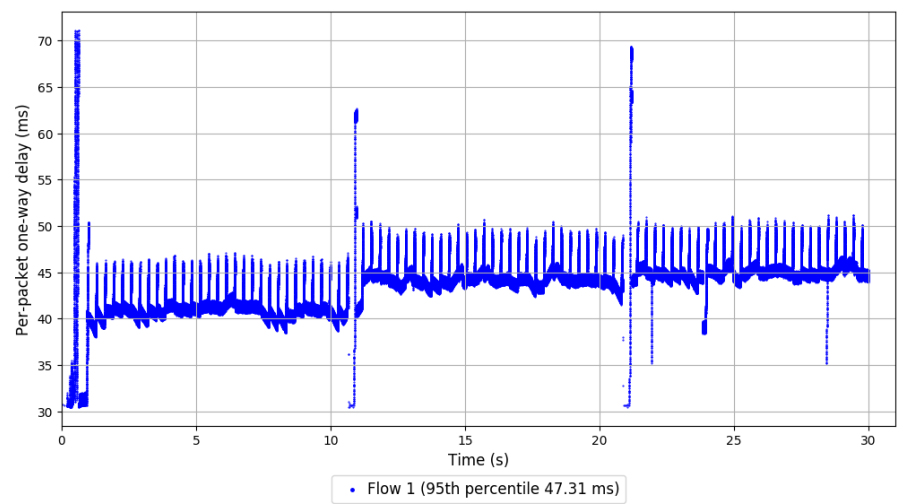
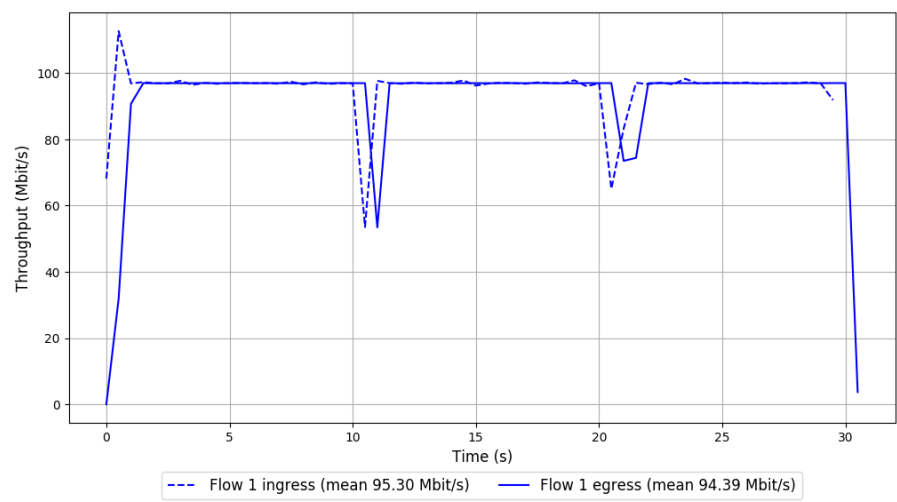
-- Flow 1:

Average throughput: 94.39 Mbit/s

95th percentile per-packet one-way delay: 47.310 ms

Loss rate: 0.90%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-08-27 23:29:36

End at: 2018-08-27 23:30:06

Local clock offset: 1.065 ms

Remote clock offset: 6.91 ms

Below is generated by plot.py at 2018-08-28 00:26:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.50 Mbit/s

95th percentile per-packet one-way delay: 48.973 ms

Loss rate: 0.88%

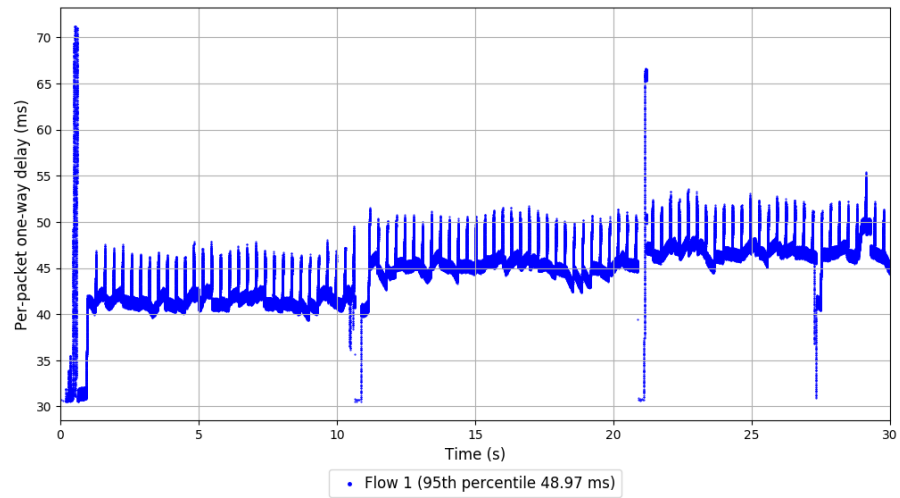
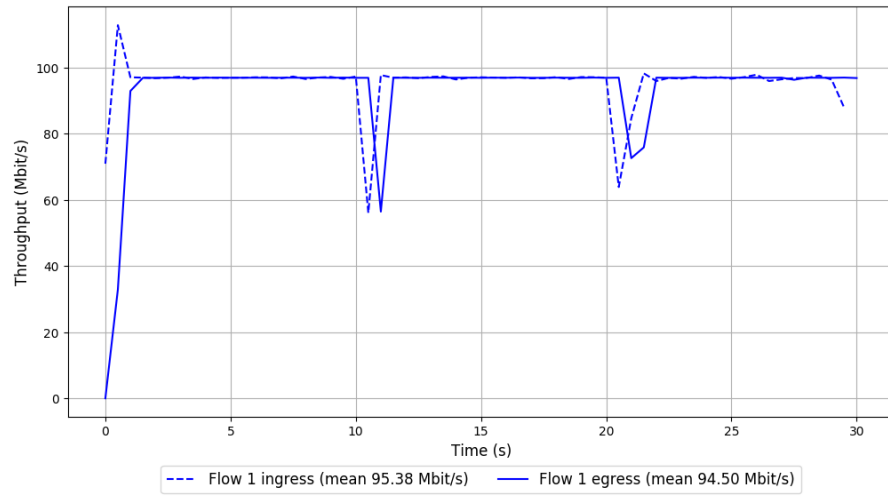
-- Flow 1:

Average throughput: 94.50 Mbit/s

95th percentile per-packet one-way delay: 48.973 ms

Loss rate: 0.88%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-08-27 23:51:32

End at: 2018-08-27 23:52:02

Local clock offset: 0.796 ms

Remote clock offset: 4.435 ms

Below is generated by plot.py at 2018-08-28 00:26:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.25 Mbit/s

95th percentile per-packet one-way delay: 59.074 ms

Loss rate: 1.23%

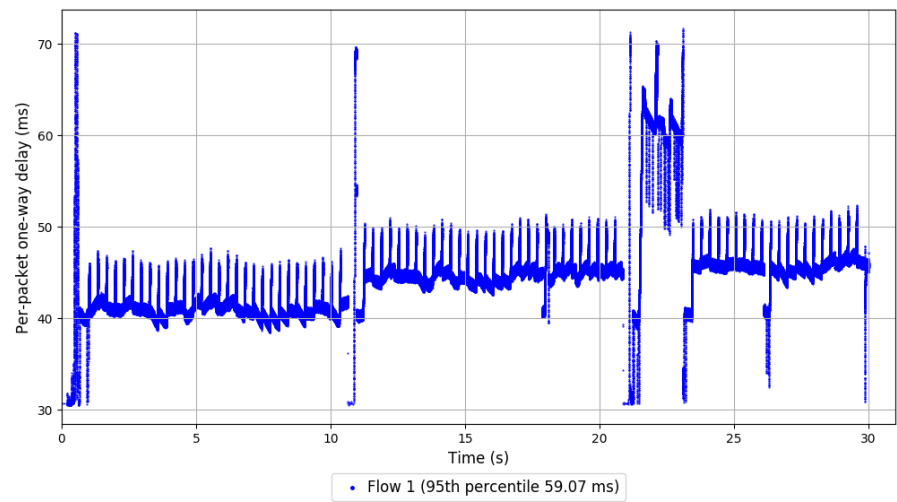
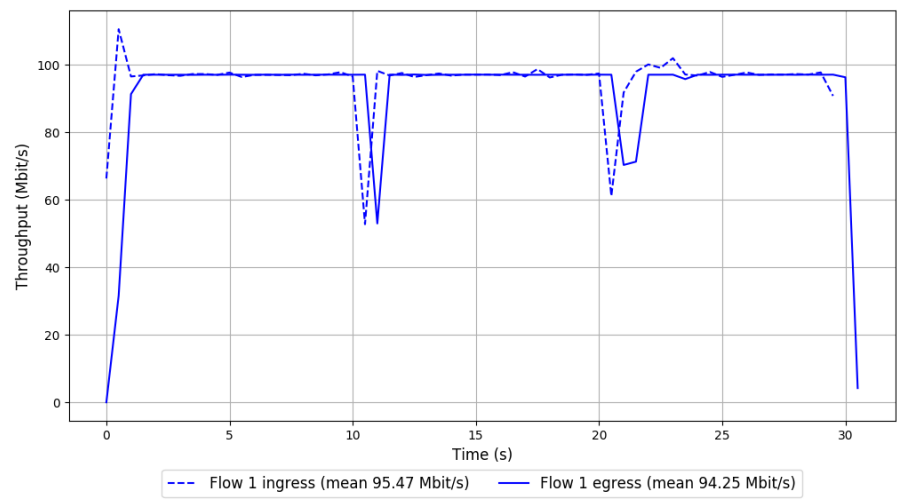
-- Flow 1:

Average throughput: 94.25 Mbit/s

95th percentile per-packet one-way delay: 59.074 ms

Loss rate: 1.23%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-08-28 00:13:26

End at: 2018-08-28 00:13:56

Local clock offset: 0.48 ms

Remote clock offset: 3.138 ms

Below is generated by plot.py at 2018-08-28 00:26:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.40 Mbit/s

95th percentile per-packet one-way delay: 48.051 ms

Loss rate: 0.96%

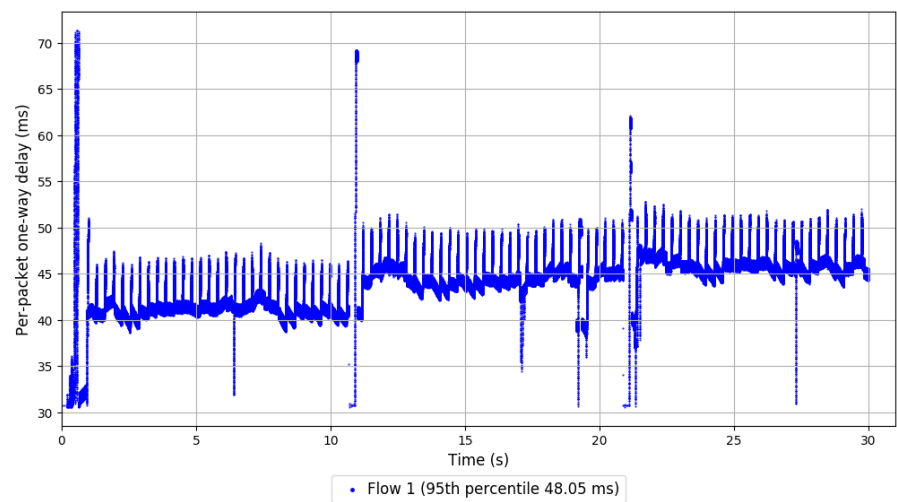
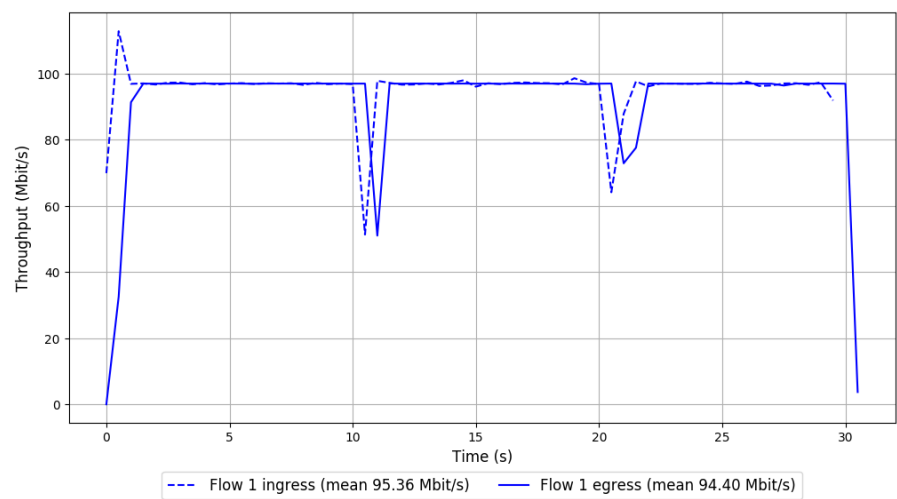
-- Flow 1:

Average throughput: 94.40 Mbit/s

95th percentile per-packet one-way delay: 48.051 ms

Loss rate: 0.96%

Run 10: Report of FillP-Sheep — Data Link

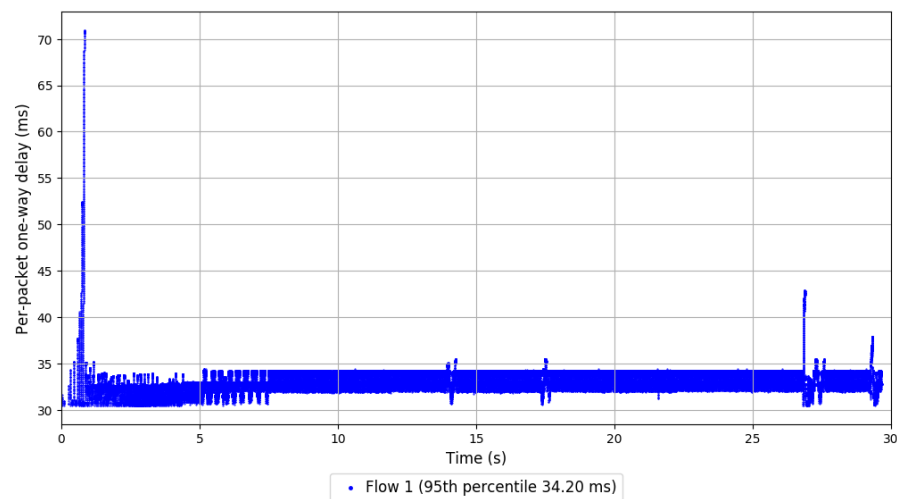
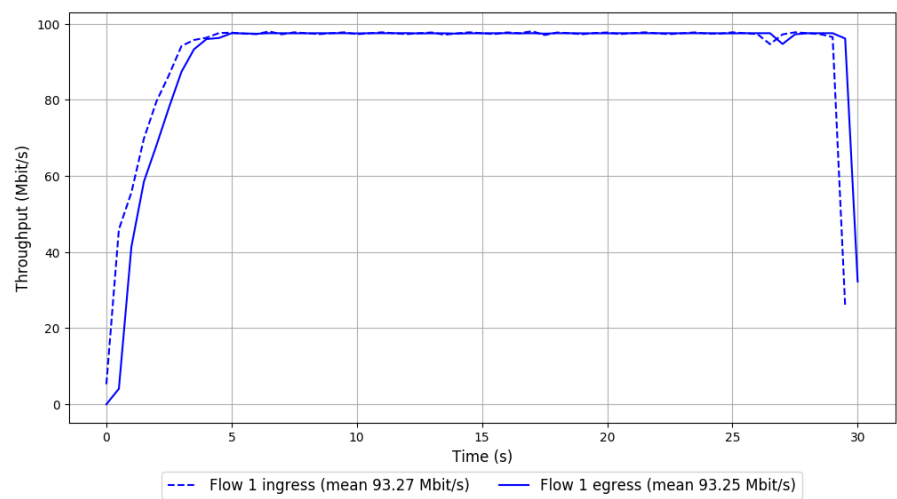


```
Run 1: Statistics of Indigo

Start at: 2018-08-27 20:40:05
End at: 2018-08-27 20:40:35
Local clock offset: 1.514 ms
Remote clock offset: 3.749 ms

# Below is generated by plot.py at 2018-08-28 00:27:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.25 Mbit/s
95th percentile per-packet one-way delay: 34.197 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 93.25 Mbit/s
95th percentile per-packet one-way delay: 34.197 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-08-27 21:02:02

End at: 2018-08-27 21:02:32

Local clock offset: 1.726 ms

Remote clock offset: 4.274 ms

Below is generated by plot.py at 2018-08-28 00:27:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.86 Mbit/s

95th percentile per-packet one-way delay: 35.249 ms

Loss rate: 0.00%

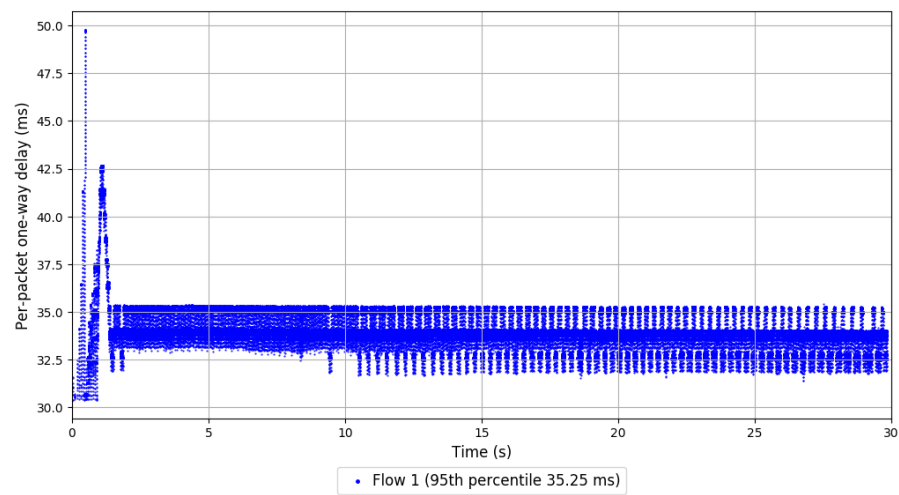
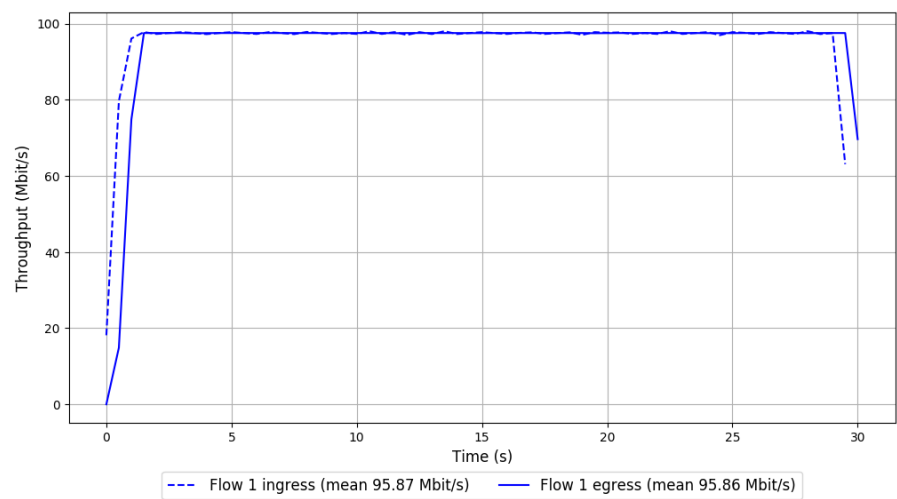
-- Flow 1:

Average throughput: 95.86 Mbit/s

95th percentile per-packet one-way delay: 35.249 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-08-27 21:24:06

End at: 2018-08-27 21:24:36

Local clock offset: 1.346 ms

Remote clock offset: 5.013 ms

Below is generated by plot.py at 2018-08-28 00:27:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.86 Mbit/s

95th percentile per-packet one-way delay: 35.159 ms

Loss rate: 0.02%

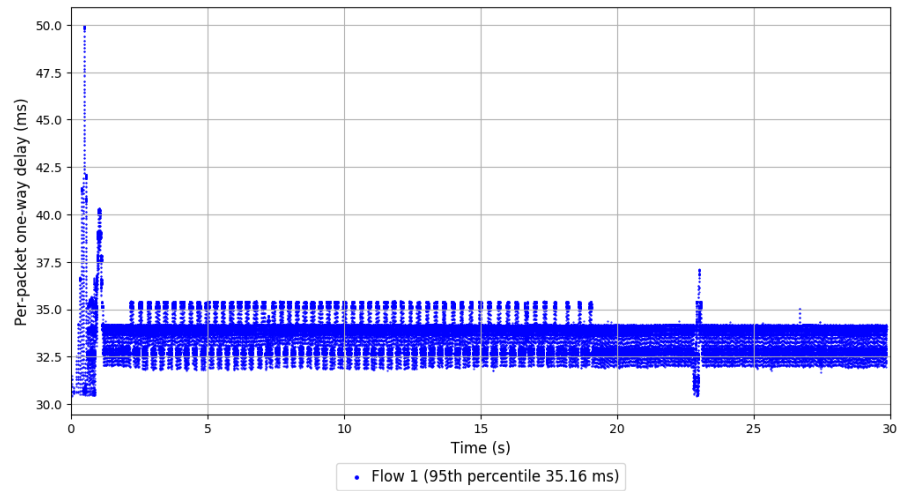
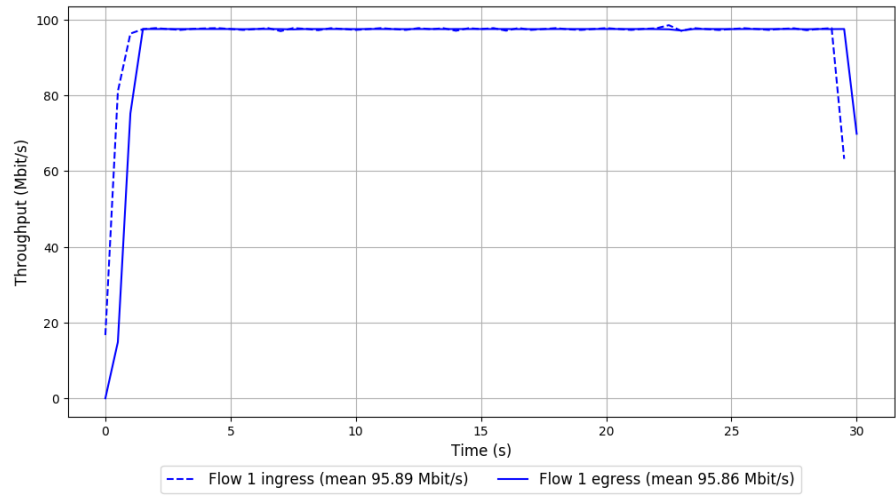
-- Flow 1:

Average throughput: 95.86 Mbit/s

95th percentile per-packet one-way delay: 35.159 ms

Loss rate: 0.02%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-08-27 21:46:07

End at: 2018-08-27 21:46:37

Local clock offset: 1.056 ms

Remote clock offset: 6.221 ms

Below is generated by plot.py at 2018-08-28 00:27:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.87 Mbit/s

95th percentile per-packet one-way delay: 35.366 ms

Loss rate: 0.00%

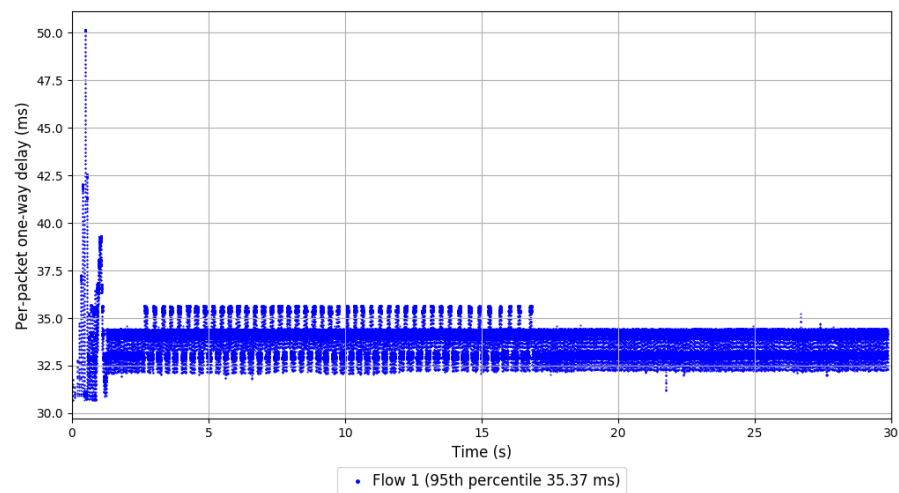
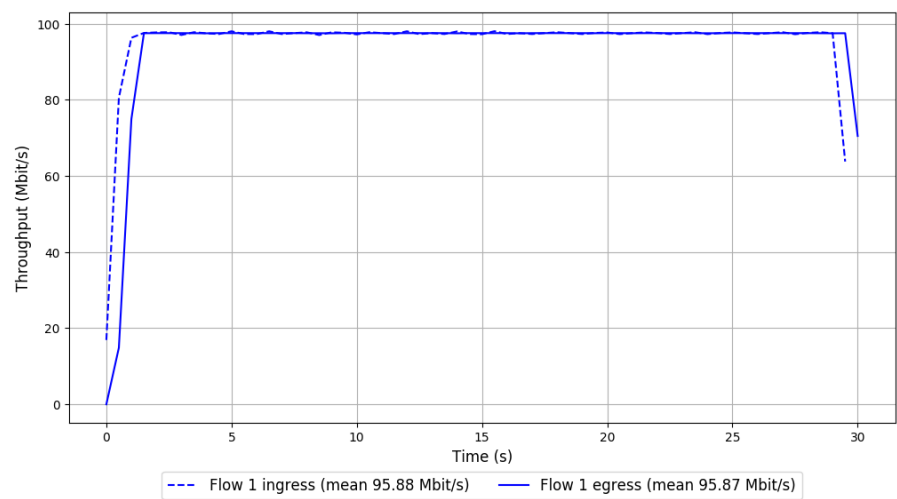
-- Flow 1:

Average throughput: 95.87 Mbit/s

95th percentile per-packet one-way delay: 35.366 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-08-27 22:08:05

End at: 2018-08-27 22:08:35

Local clock offset: 1.057 ms

Remote clock offset: 7.006 ms

Below is generated by plot.py at 2018-08-28 00:27:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.89 Mbit/s

95th percentile per-packet one-way delay: 35.171 ms

Loss rate: 0.01%

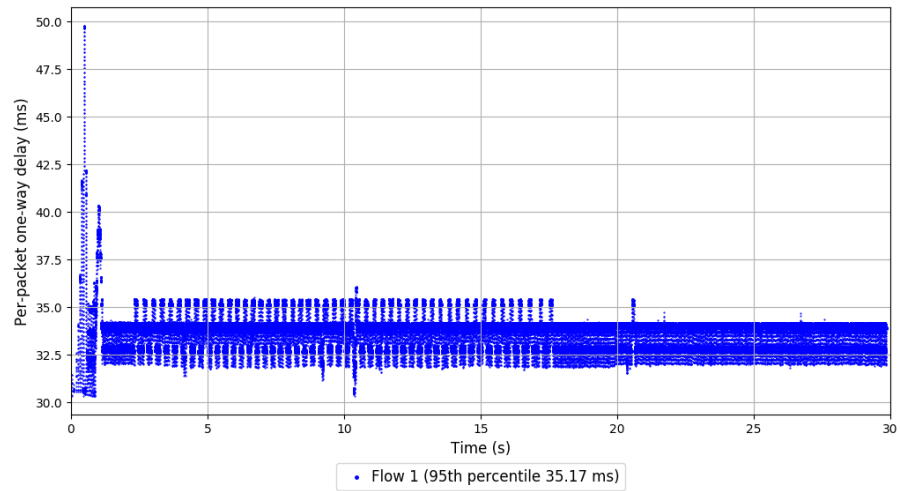
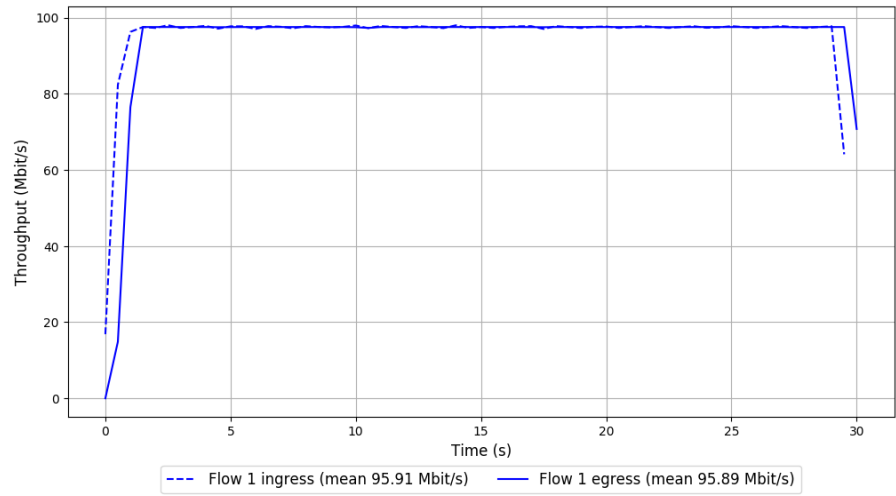
-- Flow 1:

Average throughput: 95.89 Mbit/s

95th percentile per-packet one-way delay: 35.171 ms

Loss rate: 0.01%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-08-27 22:30:03

End at: 2018-08-27 22:30:33

Local clock offset: 1.164 ms

Remote clock offset: 8.73 ms

Below is generated by plot.py at 2018-08-28 00:27:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.71 Mbit/s

95th percentile per-packet one-way delay: 35.298 ms

Loss rate: 0.03%

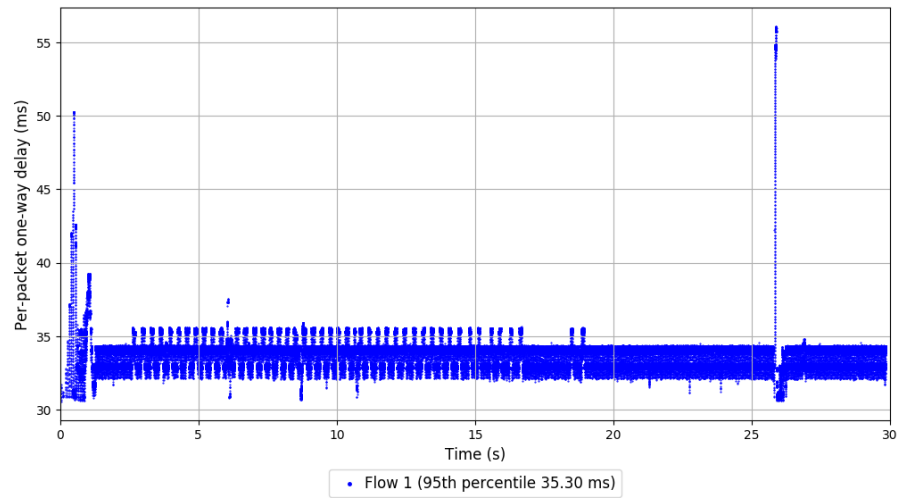
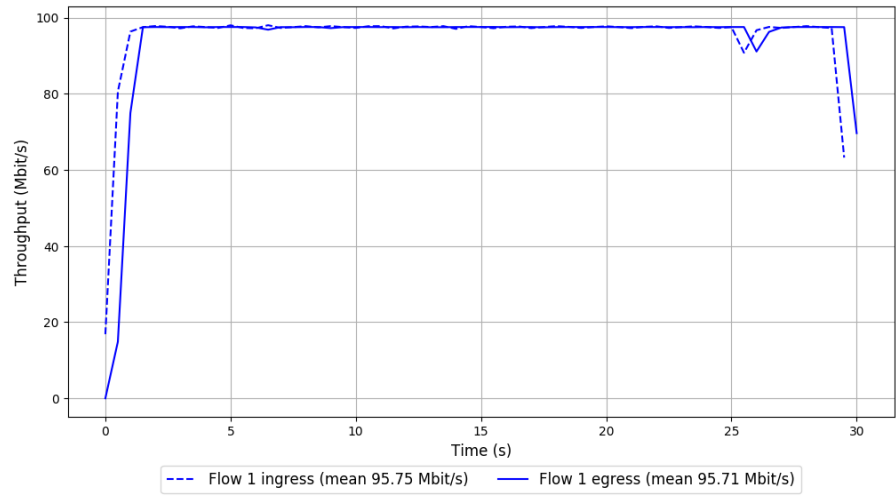
-- Flow 1:

Average throughput: 95.71 Mbit/s

95th percentile per-packet one-way delay: 35.298 ms

Loss rate: 0.03%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-08-27 22:52:01

End at: 2018-08-27 22:52:31

Local clock offset: 0.905 ms

Remote clock offset: 8.18 ms

Below is generated by plot.py at 2018-08-28 00:27:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.66 Mbit/s

95th percentile per-packet one-way delay: 34.263 ms

Loss rate: 0.02%

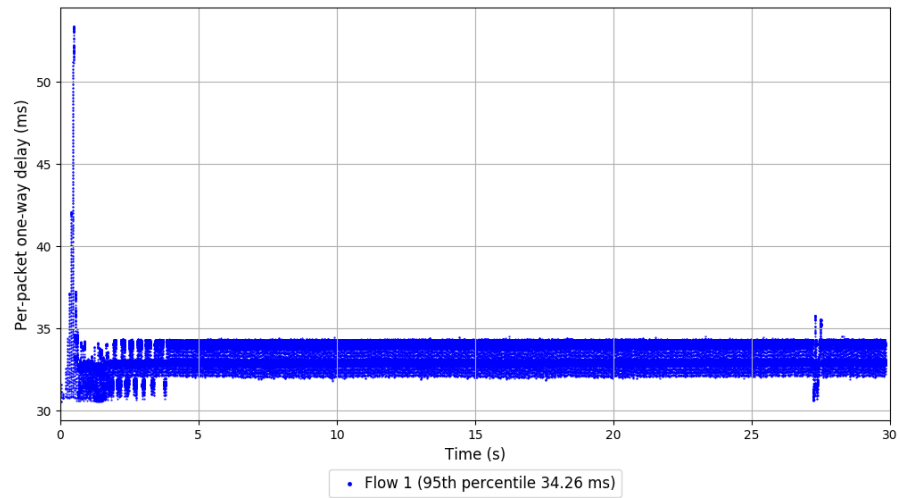
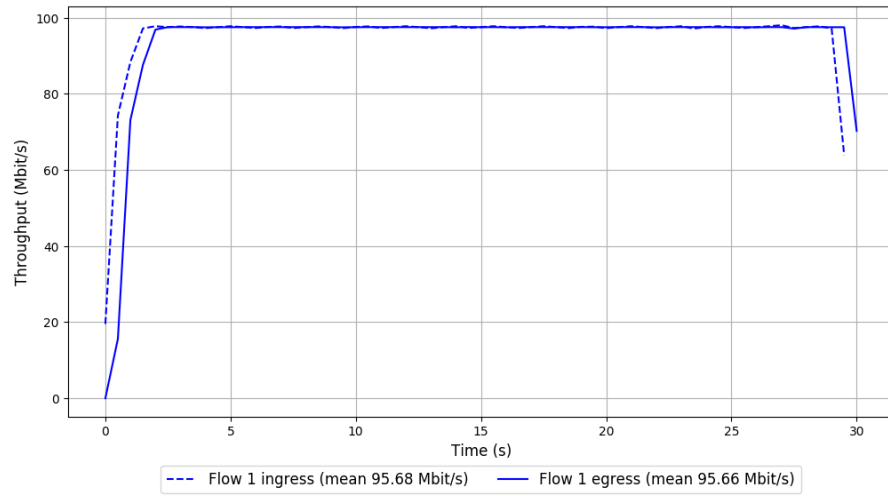
-- Flow 1:

Average throughput: 95.66 Mbit/s

95th percentile per-packet one-way delay: 34.263 ms

Loss rate: 0.02%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-08-27 23:14:02

End at: 2018-08-27 23:14:32

Local clock offset: 0.915 ms

Remote clock offset: 8.048 ms

Below is generated by plot.py at 2018-08-28 00:27:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.86 Mbit/s

95th percentile per-packet one-way delay: 35.500 ms

Loss rate: 0.00%

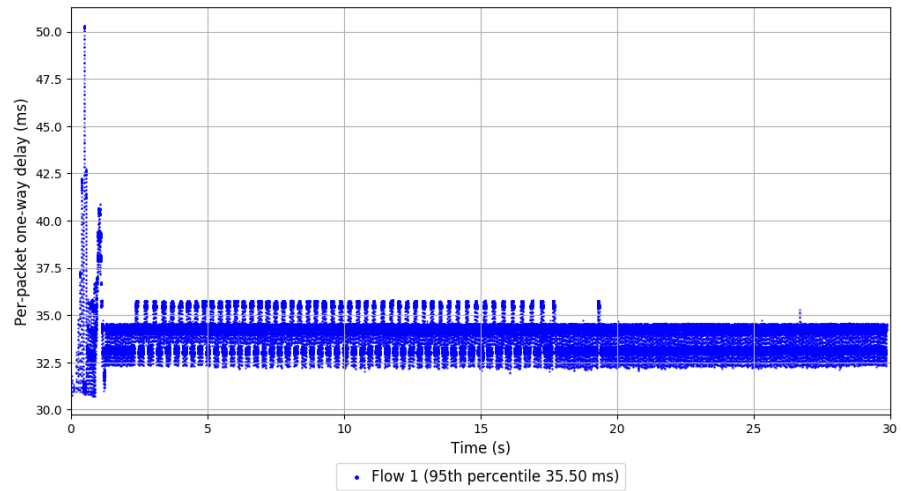
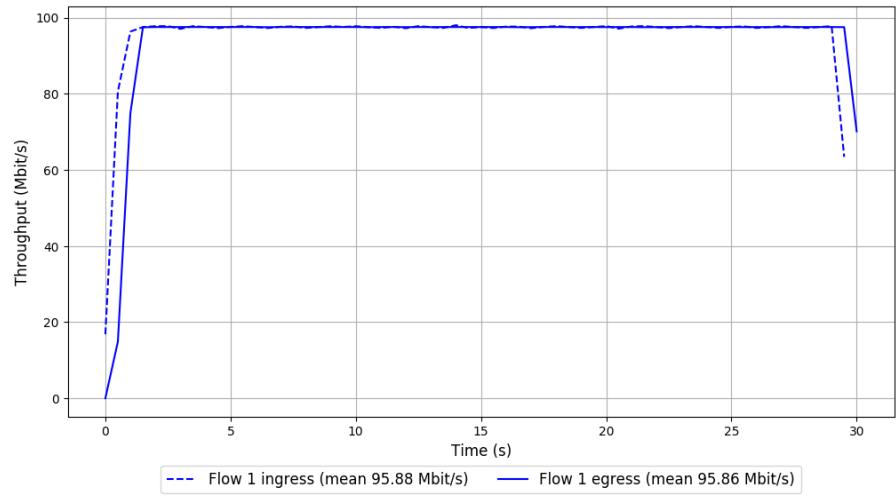
-- Flow 1:

Average throughput: 95.86 Mbit/s

95th percentile per-packet one-way delay: 35.500 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-08-27 23:35:57

End at: 2018-08-27 23:36:27

Local clock offset: 0.895 ms

Remote clock offset: 6.025 ms

Below is generated by plot.py at 2018-08-28 00:28:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.68 Mbit/s

95th percentile per-packet one-way delay: 34.240 ms

Loss rate: 0.00%

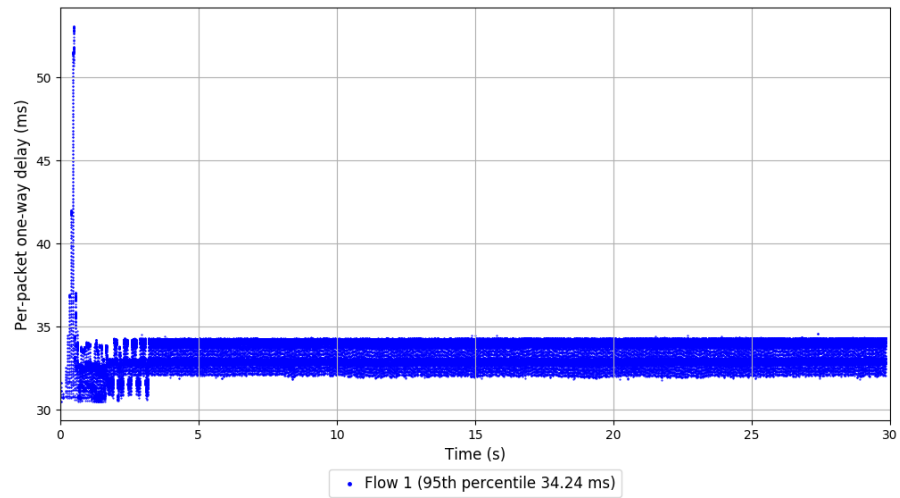
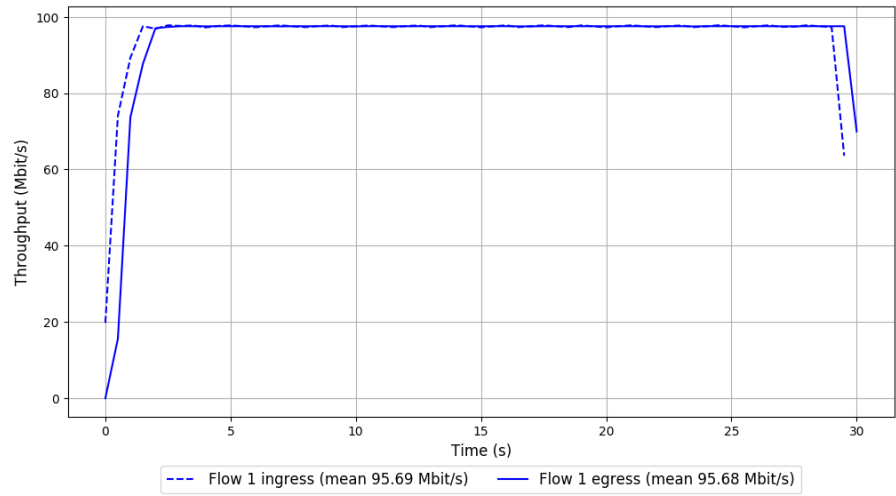
-- Flow 1:

Average throughput: 95.68 Mbit/s

95th percentile per-packet one-way delay: 34.240 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-08-27 23:57:54

End at: 2018-08-27 23:58:24

Local clock offset: 0.763 ms

Remote clock offset: 3.937 ms

Below is generated by plot.py at 2018-08-28 00:28:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.85 Mbit/s

95th percentile per-packet one-way delay: 35.399 ms

Loss rate: 0.03%

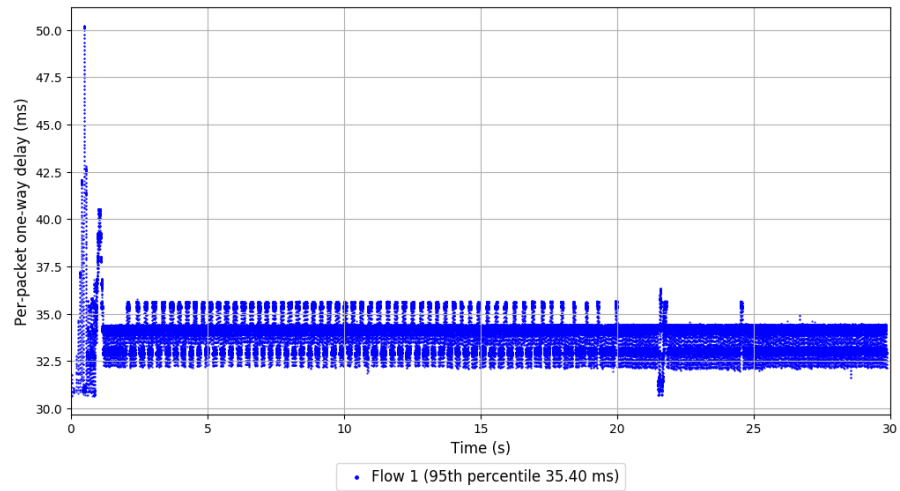
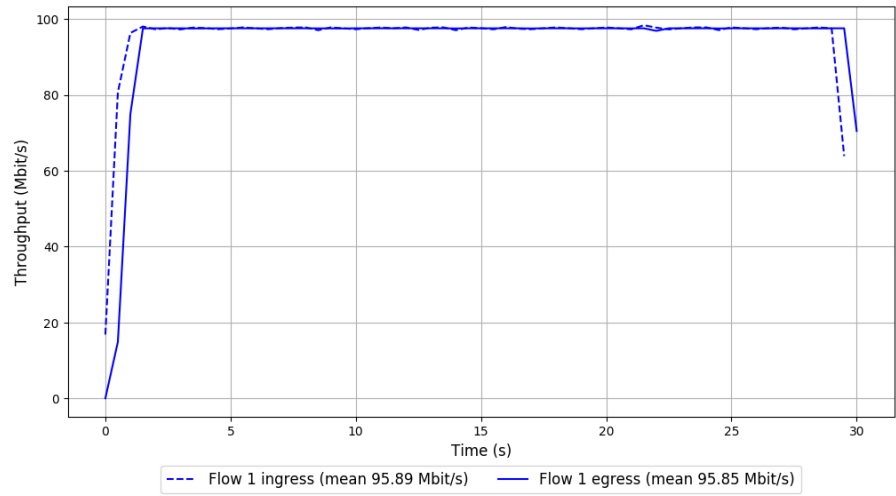
-- Flow 1:

Average throughput: 95.85 Mbit/s

95th percentile per-packet one-way delay: 35.399 ms

Loss rate: 0.03%

Run 10: Report of Indigo — Data Link

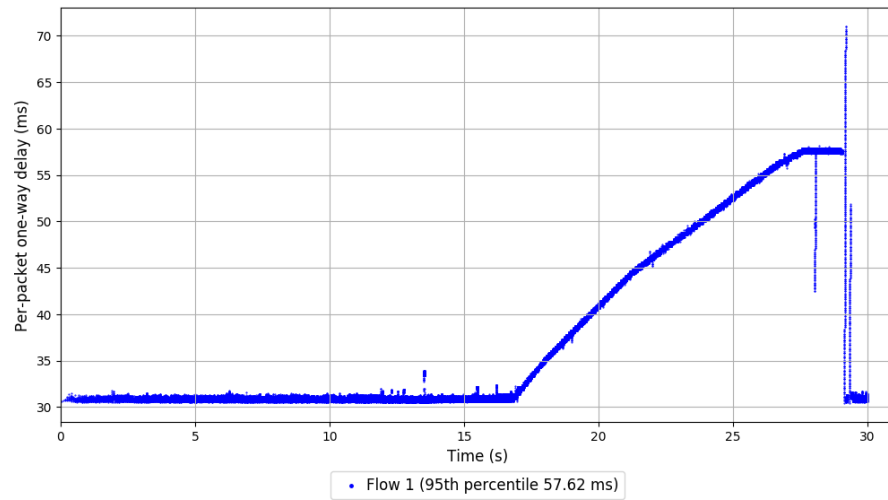
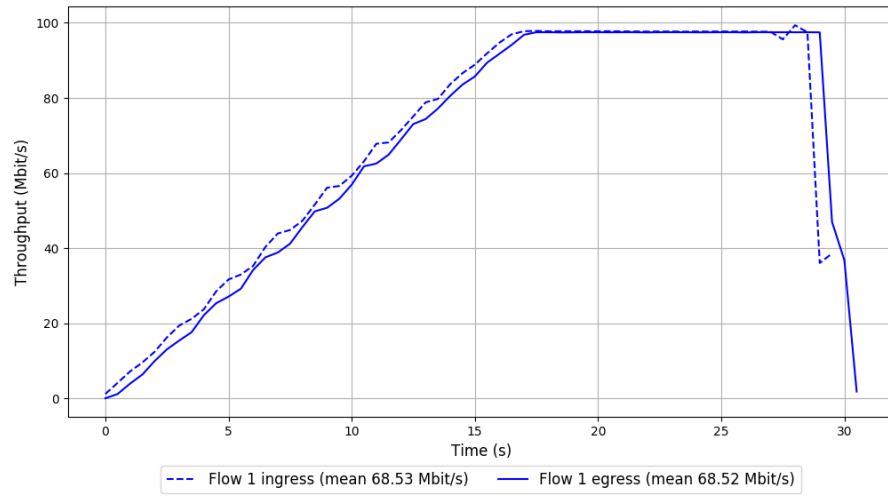


```
Run 1: Statistics of LEDBAT

Start at: 2018-08-27 20:49:06
End at: 2018-08-27 20:49:36
Local clock offset: 1.409 ms
Remote clock offset: 3.838 ms

# Below is generated by plot.py at 2018-08-28 00:28:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.52 Mbit/s
95th percentile per-packet one-way delay: 57.615 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 68.52 Mbit/s
95th percentile per-packet one-way delay: 57.615 ms
Loss rate: 0.01%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-08-27 21:11:07

End at: 2018-08-27 21:11:37

Local clock offset: 1.312 ms

Remote clock offset: 4.584 ms

Below is generated by plot.py at 2018-08-28 00:28:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.96 Mbit/s

95th percentile per-packet one-way delay: 38.812 ms

Loss rate: 0.01%

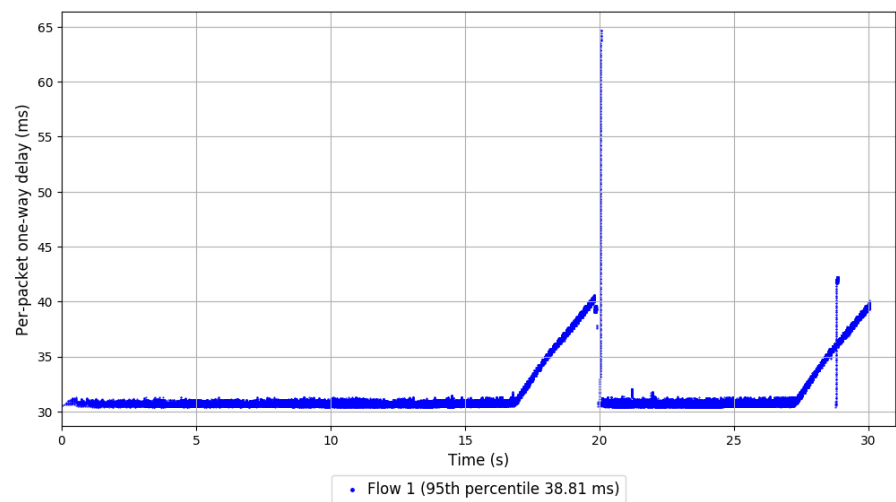
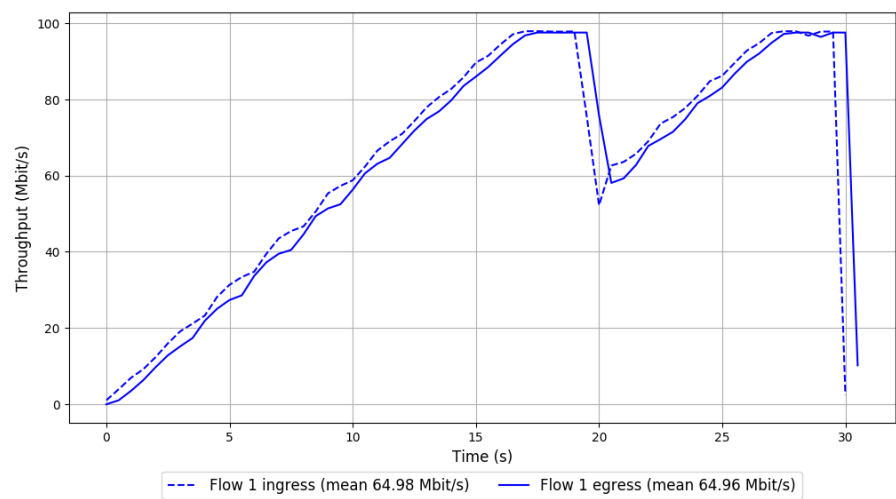
-- Flow 1:

Average throughput: 64.96 Mbit/s

95th percentile per-packet one-way delay: 38.812 ms

Loss rate: 0.01%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-08-27 21:33:14

End at: 2018-08-27 21:33:44

Local clock offset: 1.352 ms

Remote clock offset: 5.765 ms

Below is generated by plot.py at 2018-08-28 00:28:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.97 Mbit/s

95th percentile per-packet one-way delay: 31.199 ms

Loss rate: 0.17%

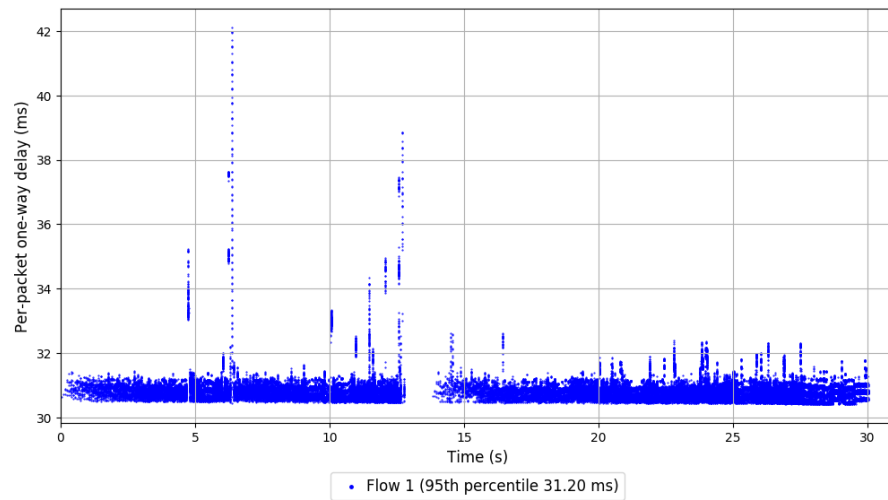
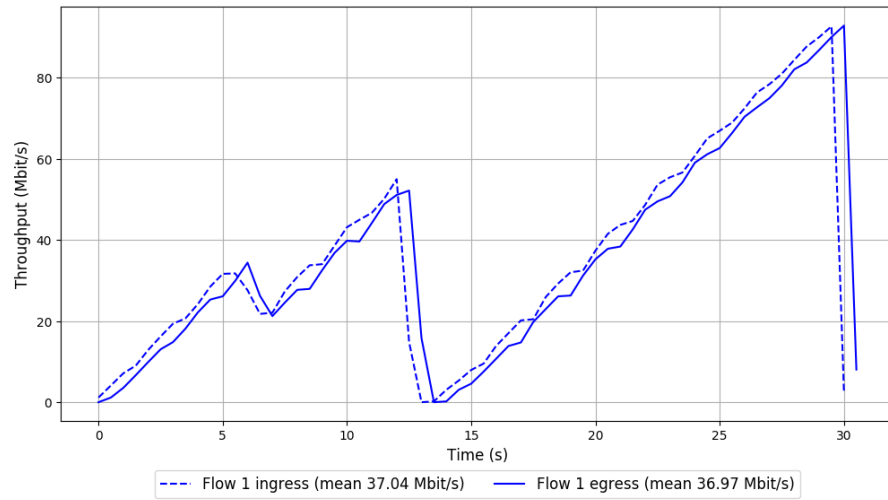
-- Flow 1:

Average throughput: 36.97 Mbit/s

95th percentile per-packet one-way delay: 31.199 ms

Loss rate: 0.17%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-08-27 21:55:09

End at: 2018-08-27 21:55:39

Local clock offset: 1.078 ms

Remote clock offset: 6.368 ms

Below is generated by plot.py at 2018-08-28 00:28:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.22 Mbit/s

95th percentile per-packet one-way delay: 57.734 ms

Loss rate: 0.00%

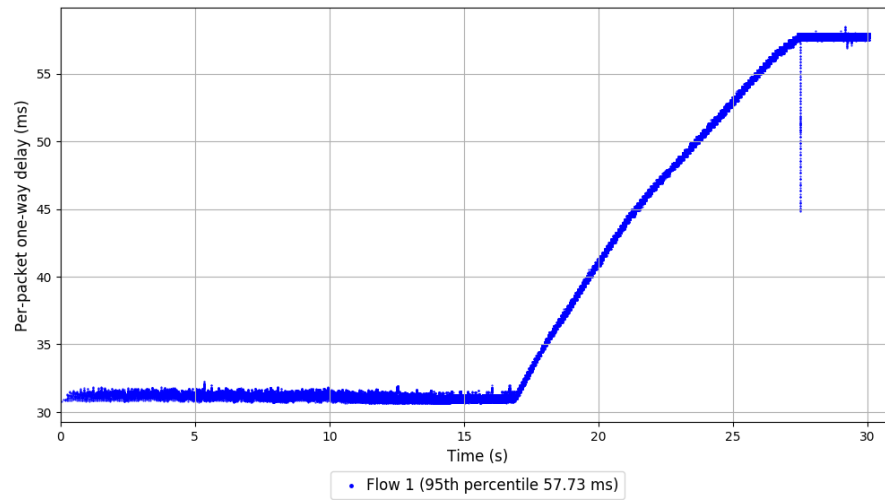
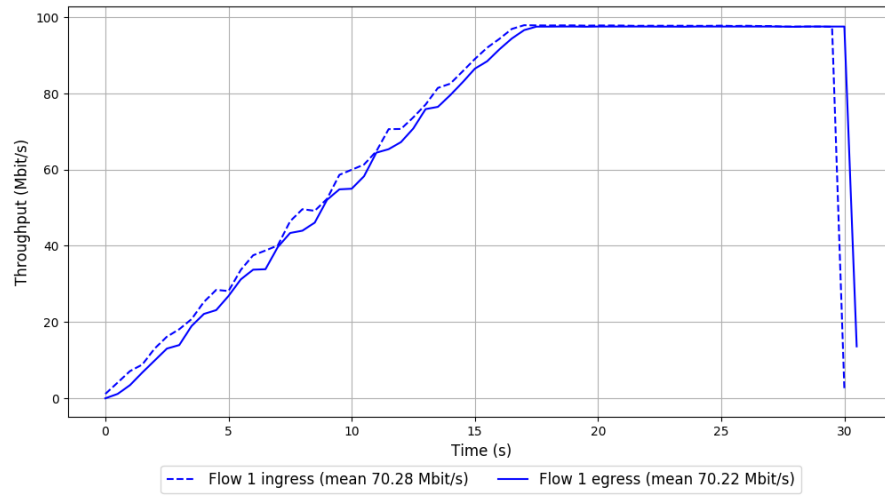
-- Flow 1:

Average throughput: 70.22 Mbit/s

95th percentile per-packet one-way delay: 57.734 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-08-27 22:17:08

End at: 2018-08-27 22:17:38

Local clock offset: 0.96 ms

Remote clock offset: 7.931 ms

Below is generated by plot.py at 2018-08-28 00:28:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.29 Mbit/s

95th percentile per-packet one-way delay: 57.766 ms

Loss rate: 0.00%

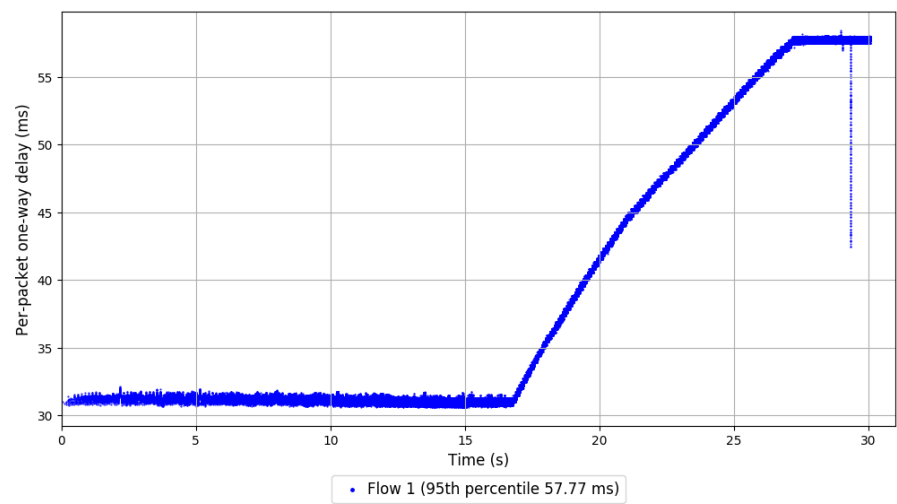
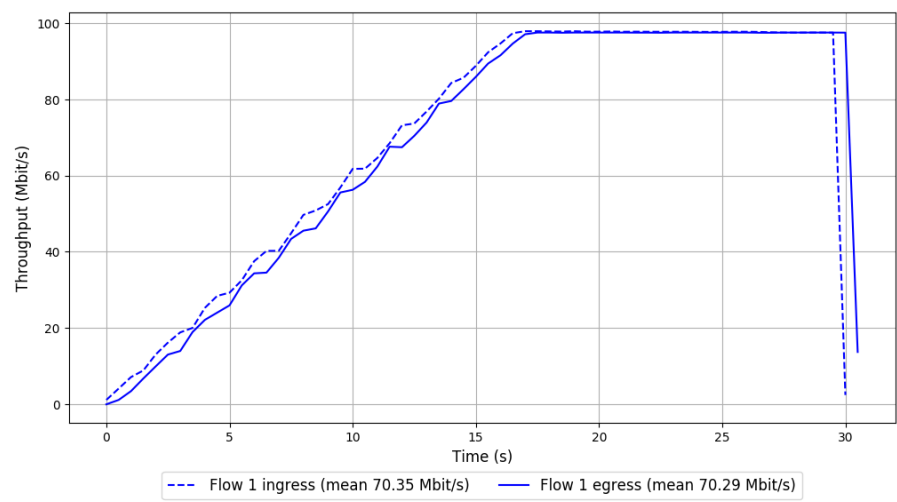
-- Flow 1:

Average throughput: 70.29 Mbit/s

95th percentile per-packet one-way delay: 57.766 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-08-27 22:39:05

End at: 2018-08-27 22:39:35

Local clock offset: 1.03 ms

Remote clock offset: 8.906 ms

Below is generated by plot.py at 2018-08-28 00:28:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.10 Mbit/s

95th percentile per-packet one-way delay: 57.777 ms

Loss rate: 0.00%

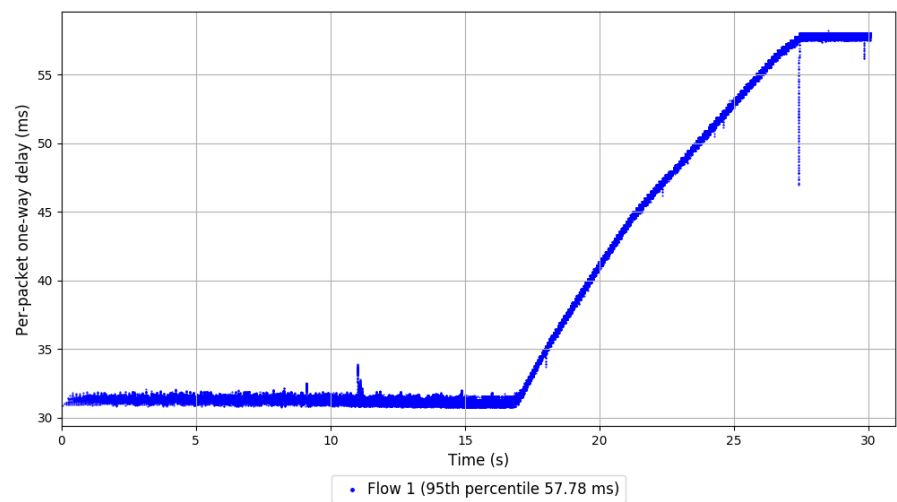
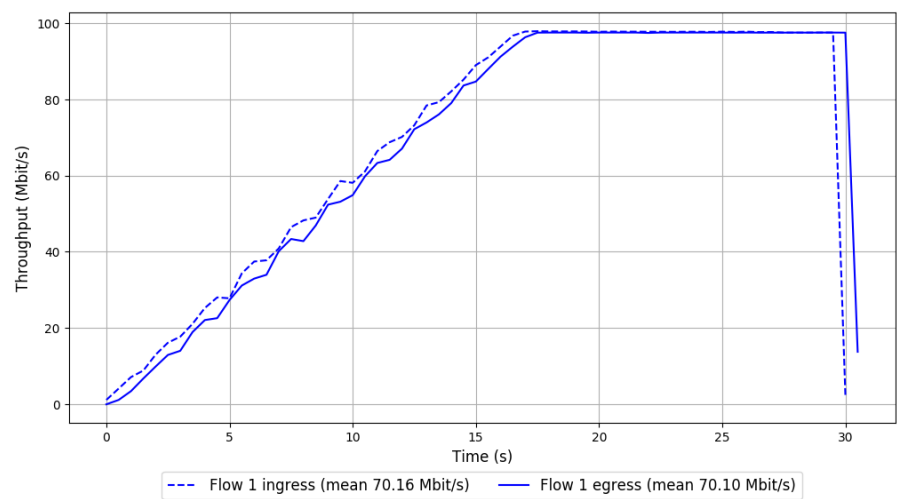
-- Flow 1:

Average throughput: 70.10 Mbit/s

95th percentile per-packet one-way delay: 57.777 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-08-27 23:01:06

End at: 2018-08-27 23:01:36

Local clock offset: 0.974 ms

Remote clock offset: 8.156 ms

Below is generated by plot.py at 2018-08-28 00:29:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.22 Mbit/s

95th percentile per-packet one-way delay: 57.805 ms

Loss rate: 0.00%

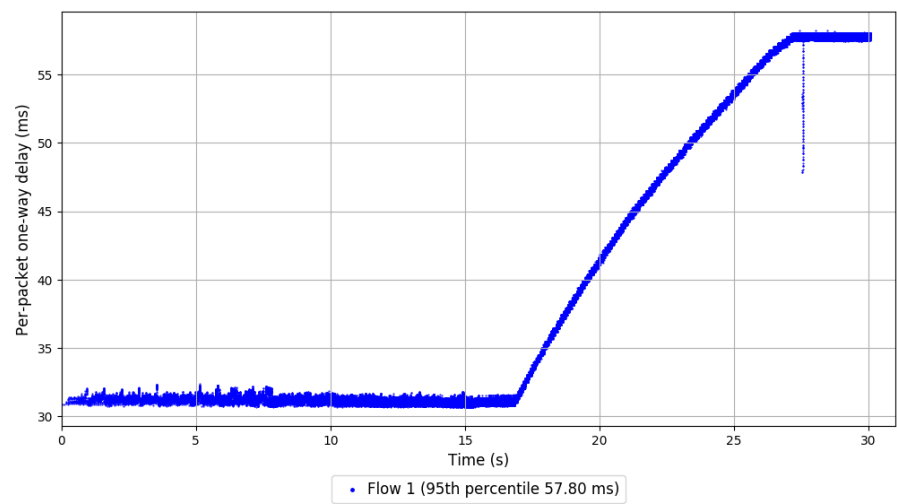
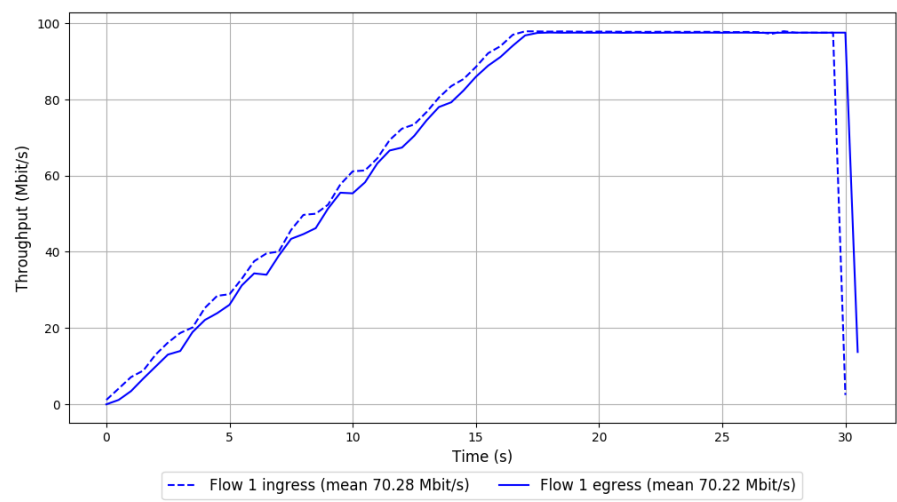
-- Flow 1:

Average throughput: 70.22 Mbit/s

95th percentile per-packet one-way delay: 57.805 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-08-27 23:23:05

End at: 2018-08-27 23:23:35

Local clock offset: 1.048 ms

Remote clock offset: 7.672 ms

Below is generated by plot.py at 2018-08-28 00:29:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.19 Mbit/s

95th percentile per-packet one-way delay: 45.231 ms

Loss rate: 0.00%

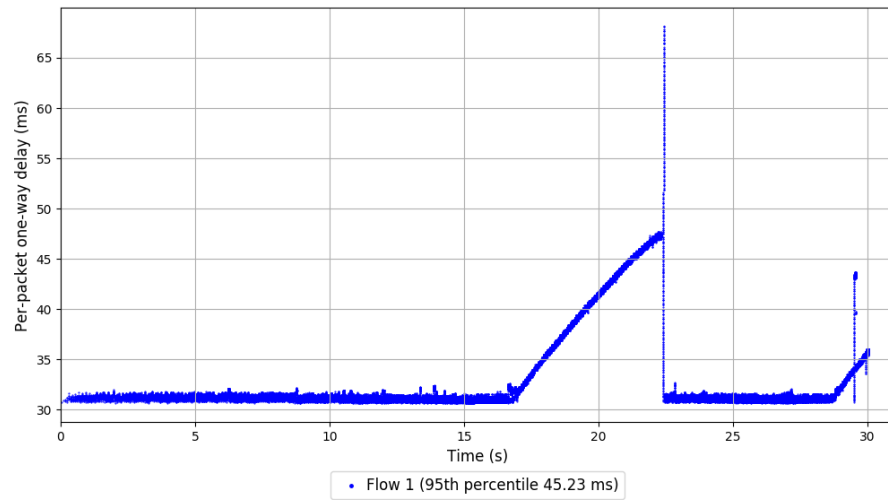
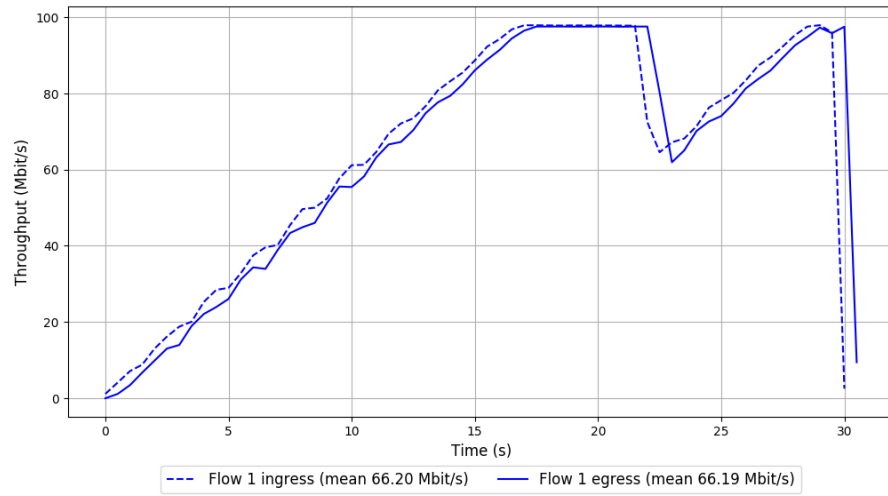
-- Flow 1:

Average throughput: 66.19 Mbit/s

95th percentile per-packet one-way delay: 45.231 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-08-27 23:45:00

End at: 2018-08-27 23:45:30

Local clock offset: 0.894 ms

Remote clock offset: 4.966 ms

Below is generated by plot.py at 2018-08-28 00:29:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.25 Mbit/s

95th percentile per-packet one-way delay: 57.570 ms

Loss rate: 0.00%

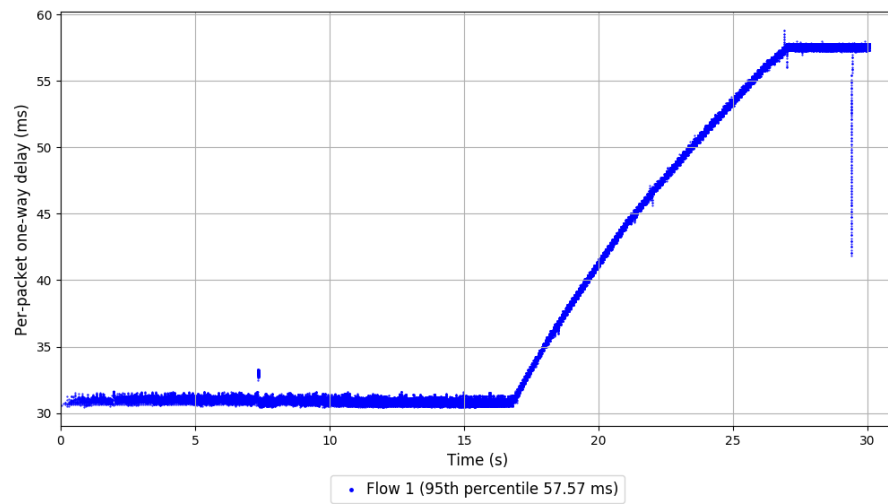
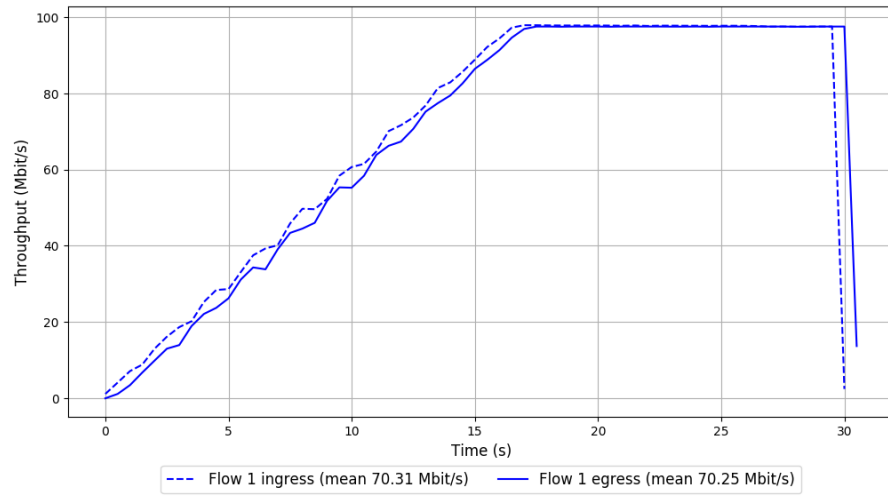
-- Flow 1:

Average throughput: 70.25 Mbit/s

95th percentile per-packet one-way delay: 57.570 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-08-28 00:06:55

End at: 2018-08-28 00:07:25

Local clock offset: 0.696 ms

Remote clock offset: 3.47 ms

Below is generated by plot.py at 2018-08-28 00:29:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.49 Mbit/s

95th percentile per-packet one-way delay: 39.006 ms

Loss rate: 0.04%

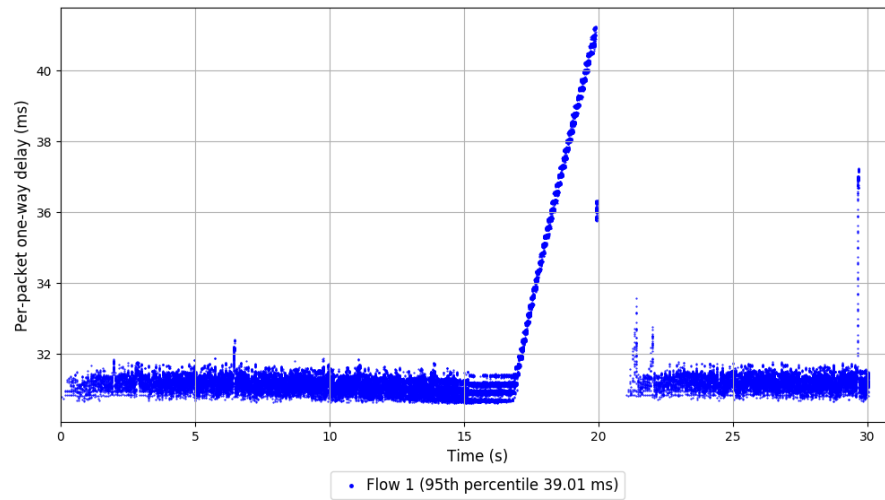
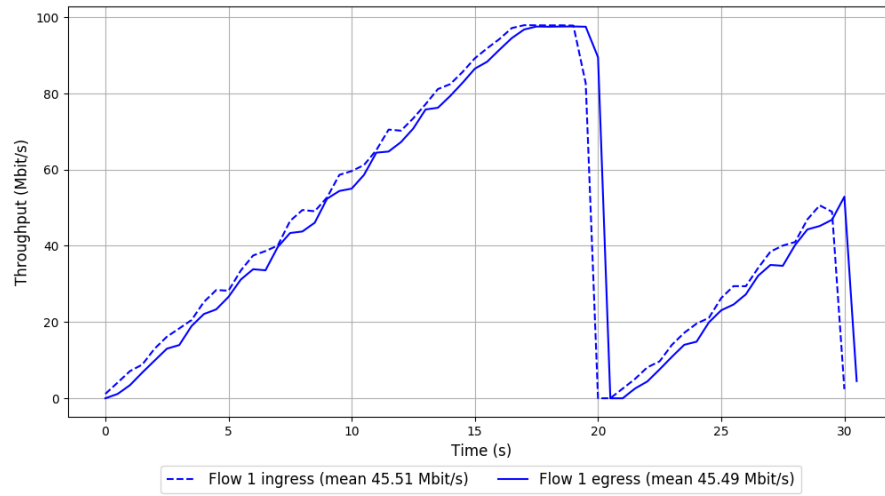
-- Flow 1:

Average throughput: 45.49 Mbit/s

95th percentile per-packet one-way delay: 39.006 ms

Loss rate: 0.04%

Run 10: Report of LEDBAT — Data Link

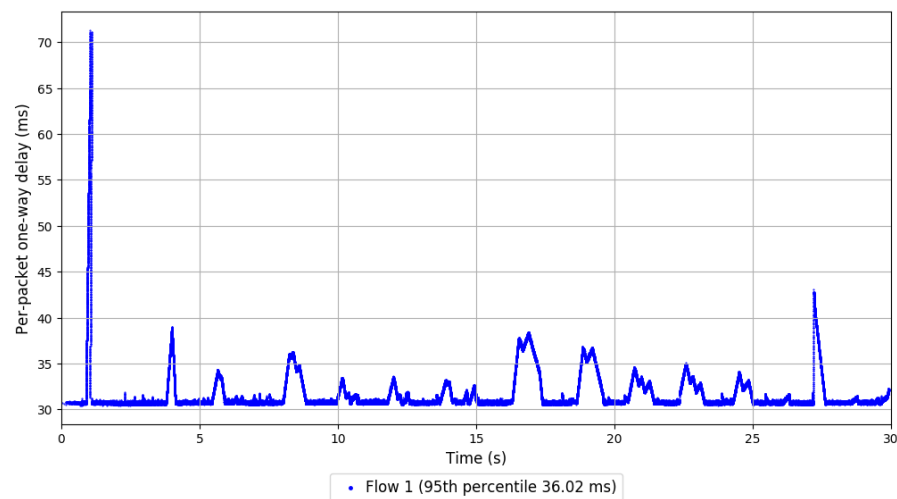
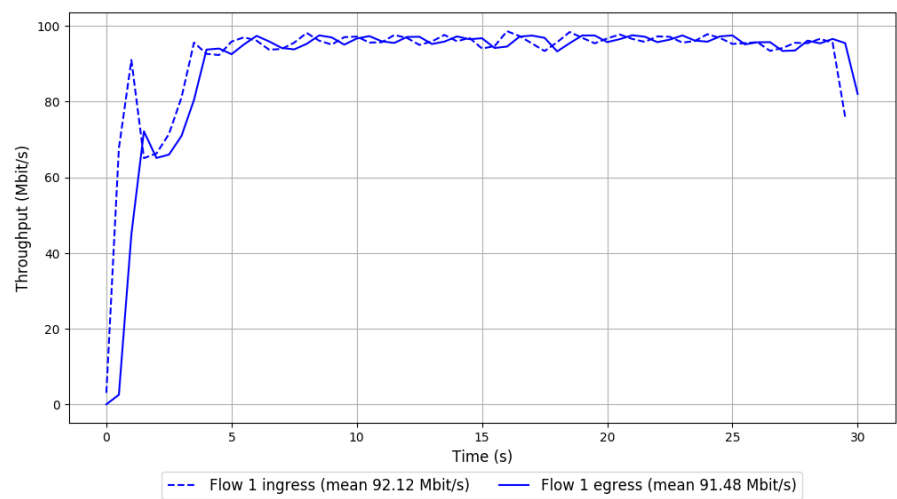


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-08-27 20:46:32
End at: 2018-08-27 20:47:02
Local clock offset: 1.392 ms
Remote clock offset: 3.853 ms

# Below is generated by plot.py at 2018-08-28 00:29:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.48 Mbit/s
95th percentile per-packet one-way delay: 36.024 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 91.48 Mbit/s
95th percentile per-packet one-way delay: 36.024 ms
Loss rate: 0.69%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-08-27 21:08:34

End at: 2018-08-27 21:09:04

Local clock offset: 1.272 ms

Remote clock offset: 4.881 ms

Below is generated by plot.py at 2018-08-28 00:29:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.75 Mbit/s

95th percentile per-packet one-way delay: 35.964 ms

Loss rate: 0.75%

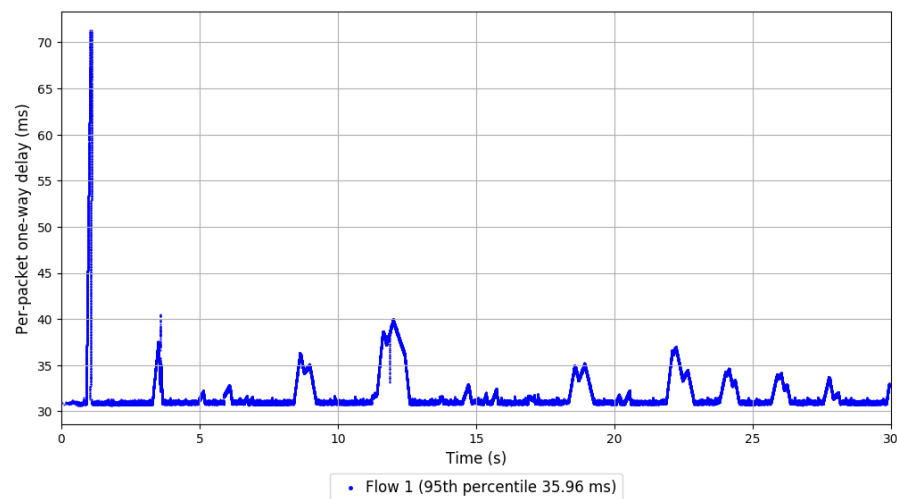
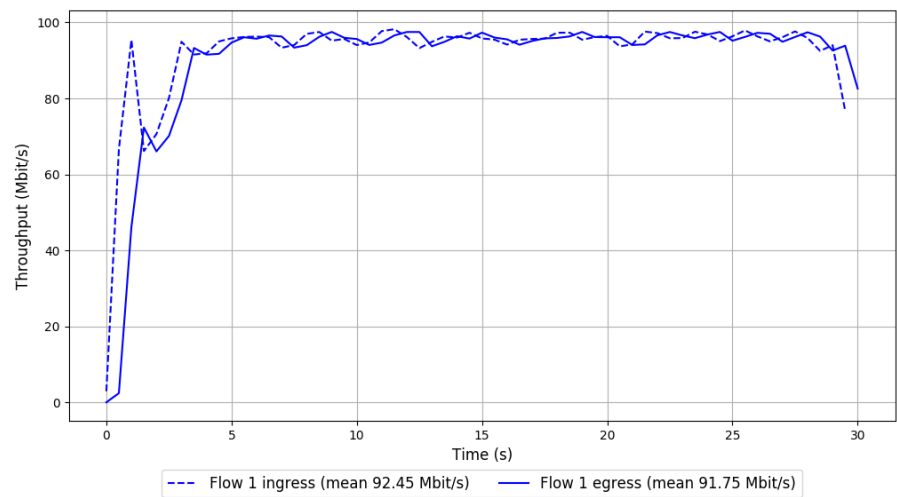
-- Flow 1:

Average throughput: 91.75 Mbit/s

95th percentile per-packet one-way delay: 35.964 ms

Loss rate: 0.75%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-08-27 21:30:40

End at: 2018-08-27 21:31:10

Local clock offset: 1.473 ms

Remote clock offset: 5.734 ms

Below is generated by plot.py at 2018-08-28 00:29:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.96 Mbit/s

95th percentile per-packet one-way delay: 34.521 ms

Loss rate: 0.71%

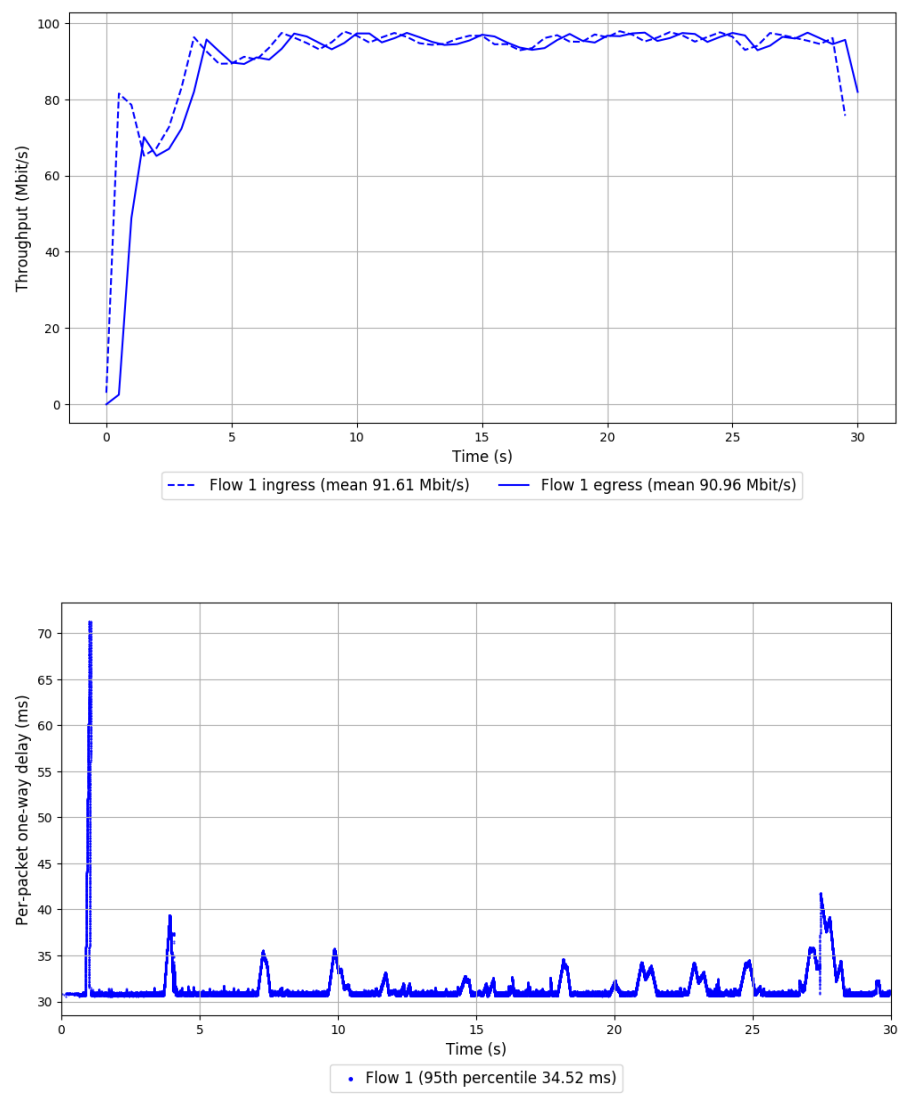
-- Flow 1:

Average throughput: 90.96 Mbit/s

95th percentile per-packet one-way delay: 34.521 ms

Loss rate: 0.71%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-08-27 21:52:37

End at: 2018-08-27 21:53:07

Local clock offset: 1.073 ms

Remote clock offset: 6.162 ms

Below is generated by plot.py at 2018-08-28 00:30:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.66 Mbit/s

95th percentile per-packet one-way delay: 55.443 ms

Loss rate: 0.75%

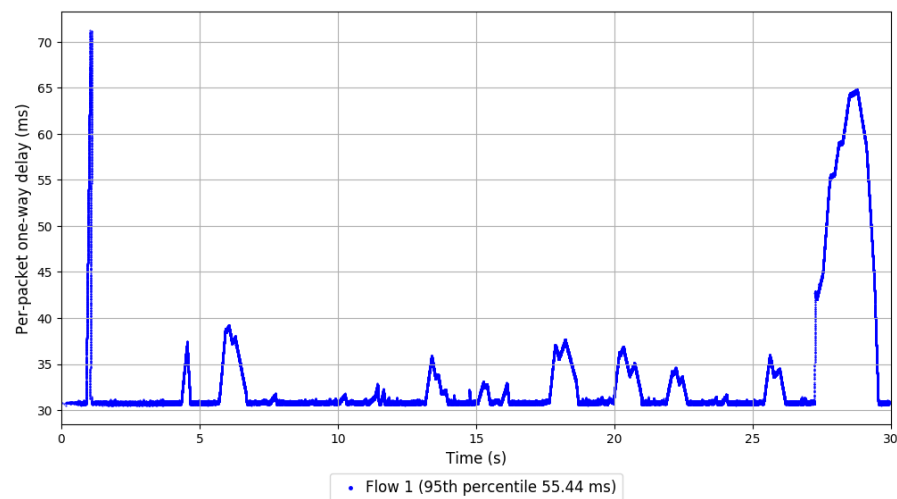
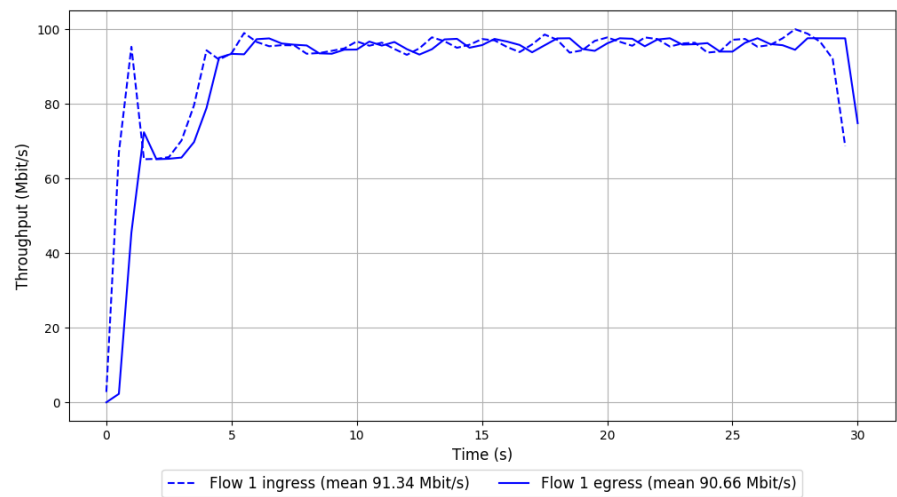
-- Flow 1:

Average throughput: 90.66 Mbit/s

95th percentile per-packet one-way delay: 55.443 ms

Loss rate: 0.75%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-08-27 22:14:35

End at: 2018-08-27 22:15:05

Local clock offset: 1.044 ms

Remote clock offset: 7.716 ms

Below is generated by plot.py at 2018-08-28 00:30:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.35 Mbit/s

95th percentile per-packet one-way delay: 39.643 ms

Loss rate: 0.73%

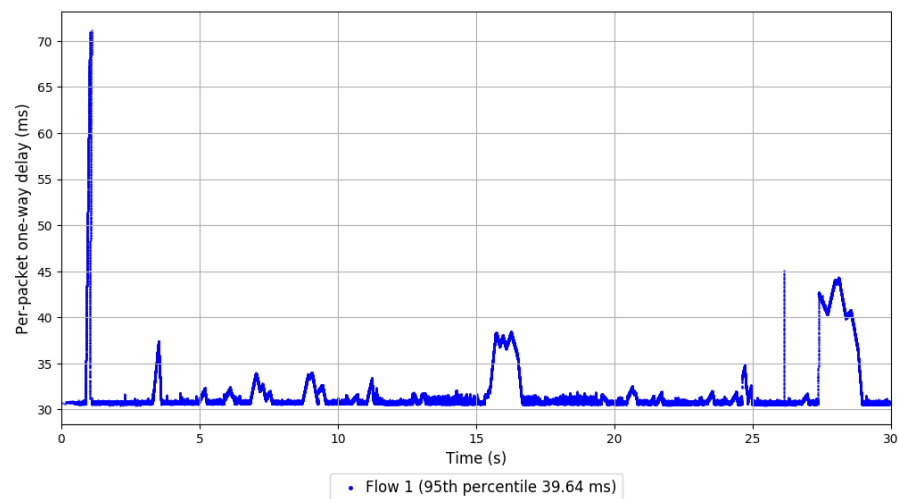
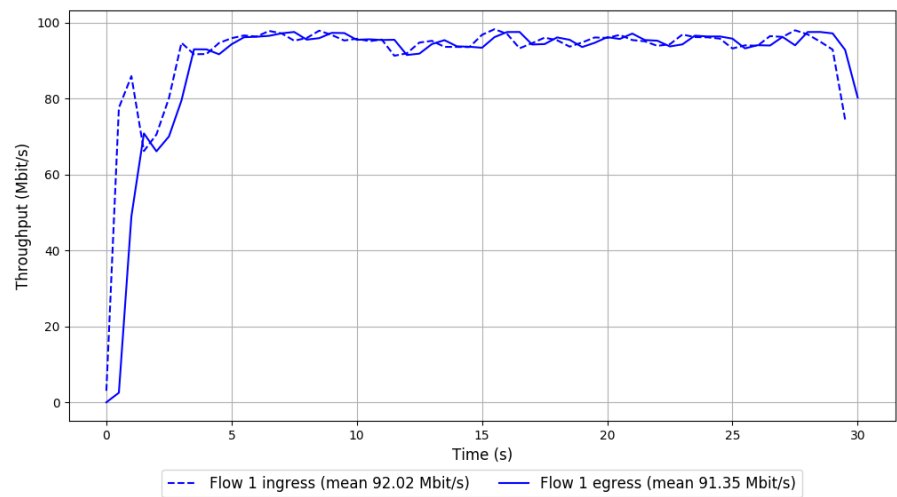
-- Flow 1:

Average throughput: 91.35 Mbit/s

95th percentile per-packet one-way delay: 39.643 ms

Loss rate: 0.73%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-08-27 22:36:32

End at: 2018-08-27 22:37:02

Local clock offset: 0.971 ms

Remote clock offset: 8.755 ms

Below is generated by plot.py at 2018-08-28 00:30:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.85 Mbit/s

95th percentile per-packet one-way delay: 35.719 ms

Loss rate: 0.73%

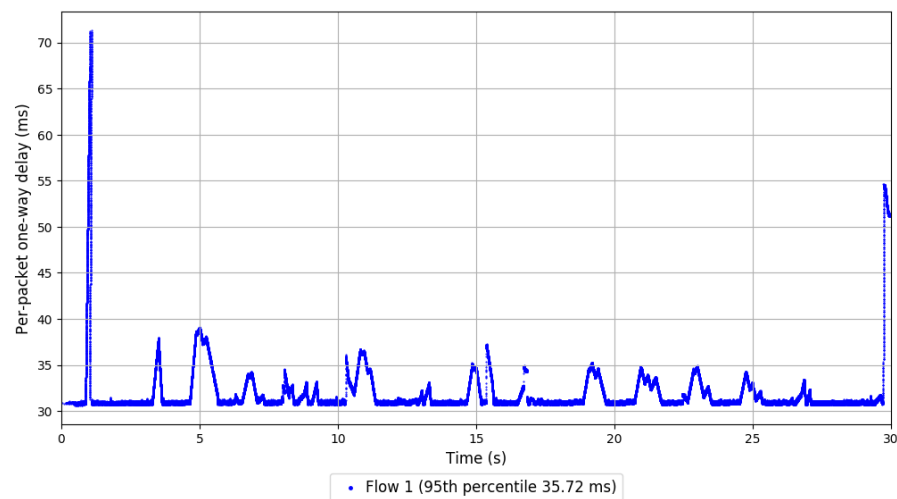
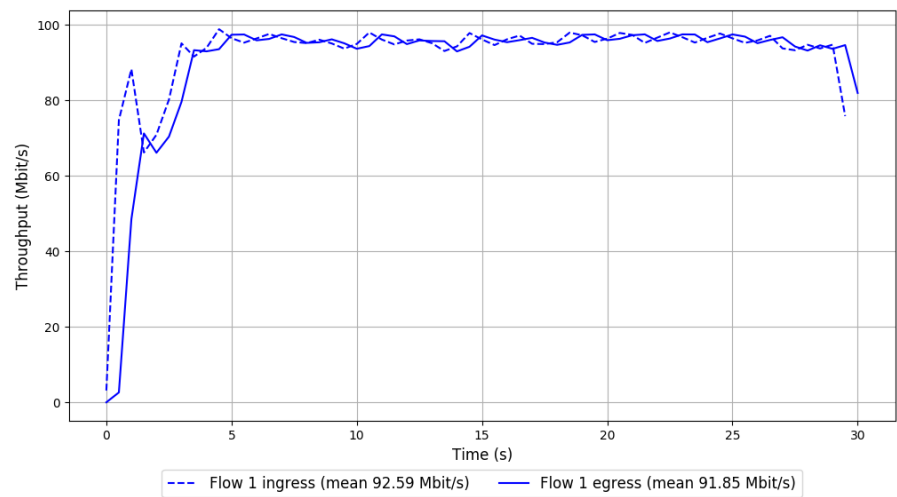
-- Flow 1:

Average throughput: 91.85 Mbit/s

95th percentile per-packet one-way delay: 35.719 ms

Loss rate: 0.73%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-08-27 22:58:33

End at: 2018-08-27 22:59:03

Local clock offset: 1.028 ms

Remote clock offset: 8.0 ms

Below is generated by plot.py at 2018-08-28 00:30:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.16 Mbit/s

95th percentile per-packet one-way delay: 37.387 ms

Loss rate: 0.69%

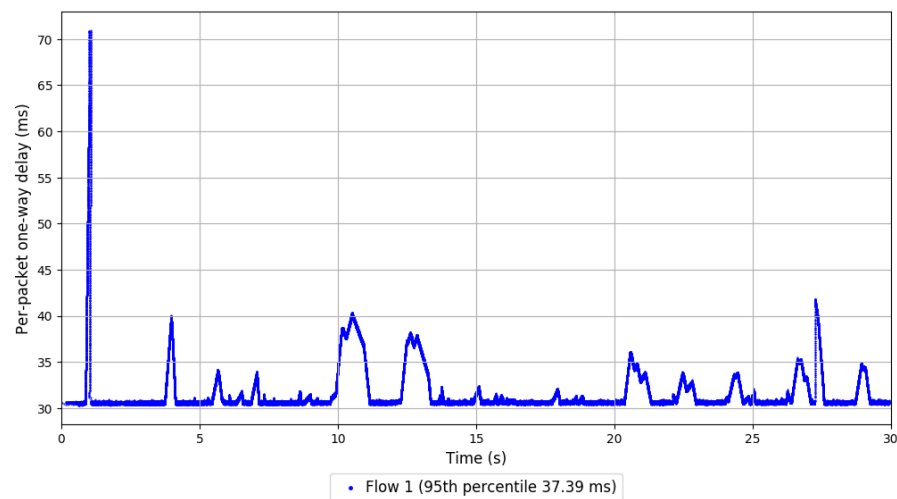
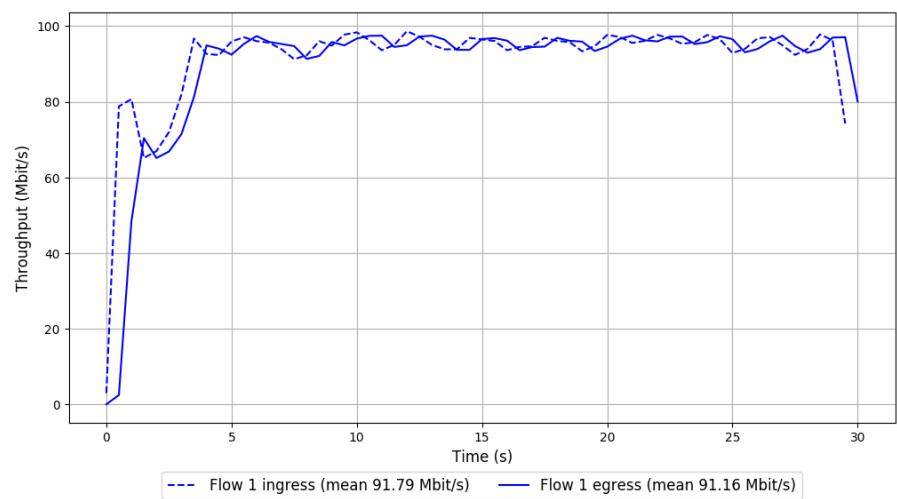
-- Flow 1:

Average throughput: 91.16 Mbit/s

95th percentile per-packet one-way delay: 37.387 ms

Loss rate: 0.69%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-08-27 23:20:32

End at: 2018-08-27 23:21:02

Local clock offset: 0.941 ms

Remote clock offset: 7.952 ms

Below is generated by plot.py at 2018-08-28 00:30:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.79 Mbit/s

95th percentile per-packet one-way delay: 35.314 ms

Loss rate: 0.67%

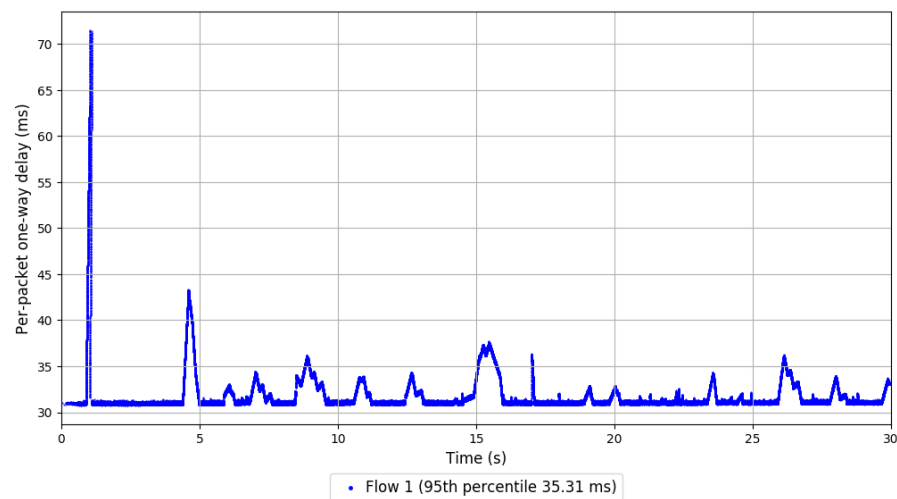
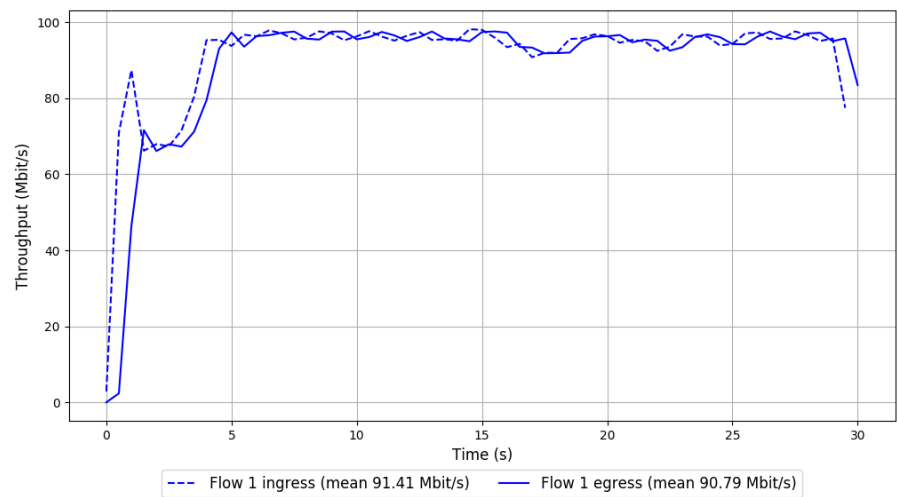
-- Flow 1:

Average throughput: 90.79 Mbit/s

95th percentile per-packet one-way delay: 35.314 ms

Loss rate: 0.67%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-08-27 23:42:27

End at: 2018-08-27 23:42:57

Local clock offset: 0.919 ms

Remote clock offset: 5.426 ms

Below is generated by plot.py at 2018-08-28 00:30:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.44 Mbit/s

95th percentile per-packet one-way delay: 33.757 ms

Loss rate: 0.74%

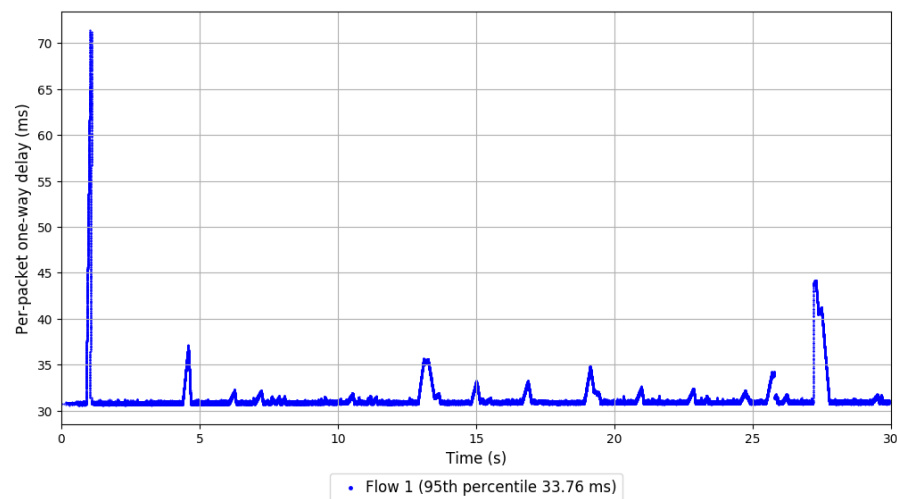
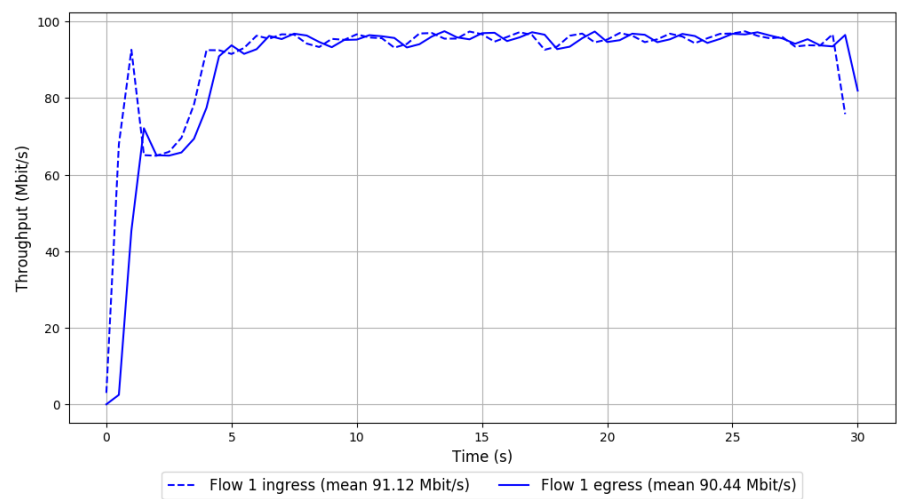
-- Flow 1:

Average throughput: 90.44 Mbit/s

95th percentile per-packet one-way delay: 33.757 ms

Loss rate: 0.74%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-08-28 00:04:23

End at: 2018-08-28 00:04:53

Local clock offset: 0.667 ms

Remote clock offset: 3.553 ms

Below is generated by plot.py at 2018-08-28 00:31:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.00 Mbit/s

95th percentile per-packet one-way delay: 34.866 ms

Loss rate: 0.69%

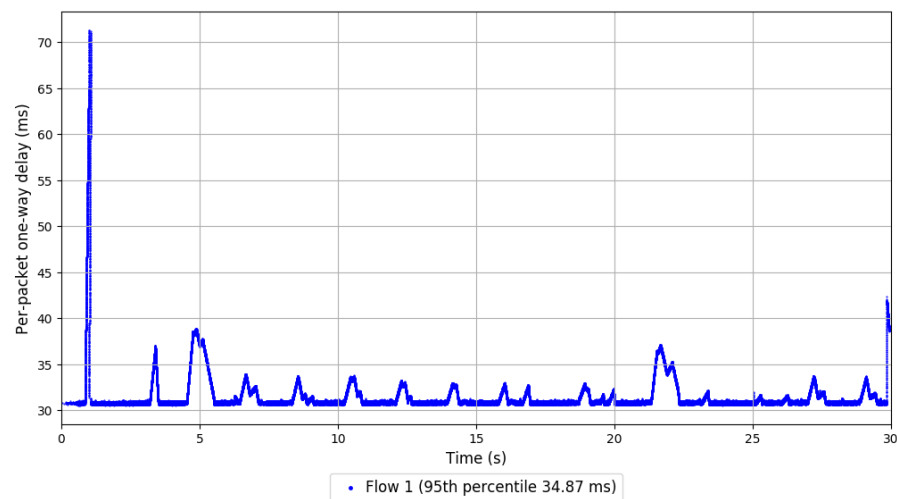
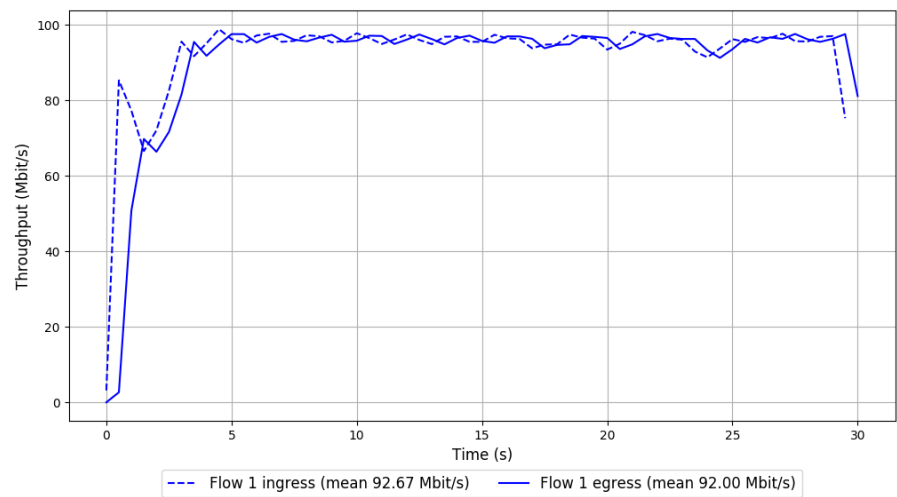
-- Flow 1:

Average throughput: 92.00 Mbit/s

95th percentile per-packet one-way delay: 34.866 ms

Loss rate: 0.69%

Run 10: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

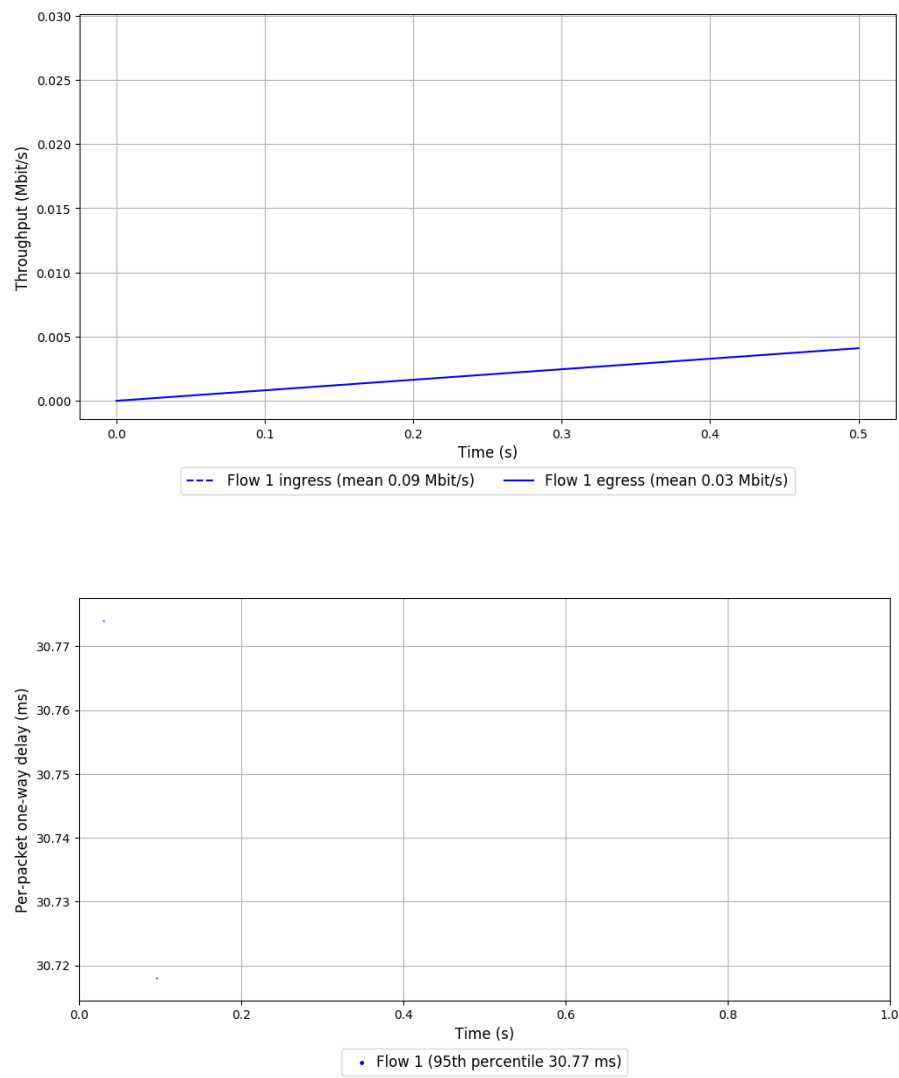
Start at: 2018-08-27 20:59:31

End at: 2018-08-27 21:00:01

Local clock offset: 1.645 ms

Remote clock offset: 4.328 ms

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

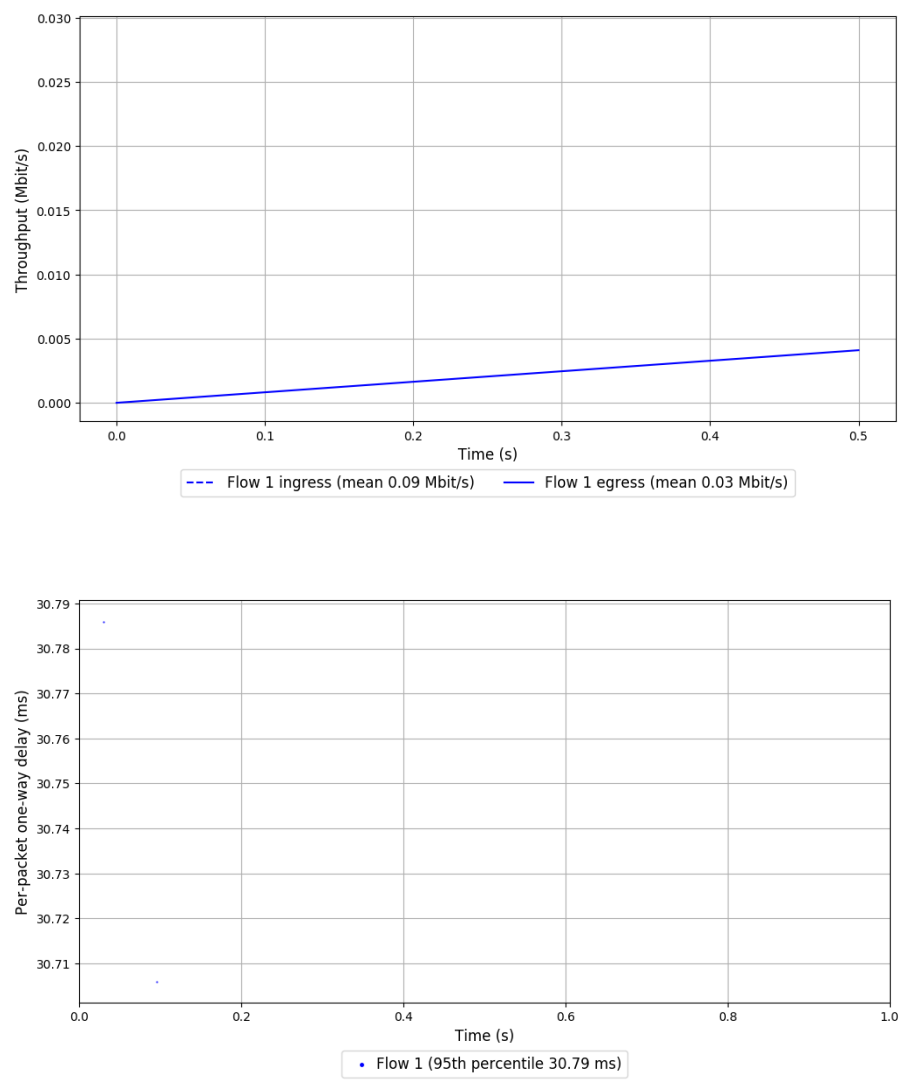
Start at: 2018-08-27 21:21:35

End at: 2018-08-27 21:22:05

Local clock offset: 1.325 ms

Remote clock offset: 5.13 ms

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

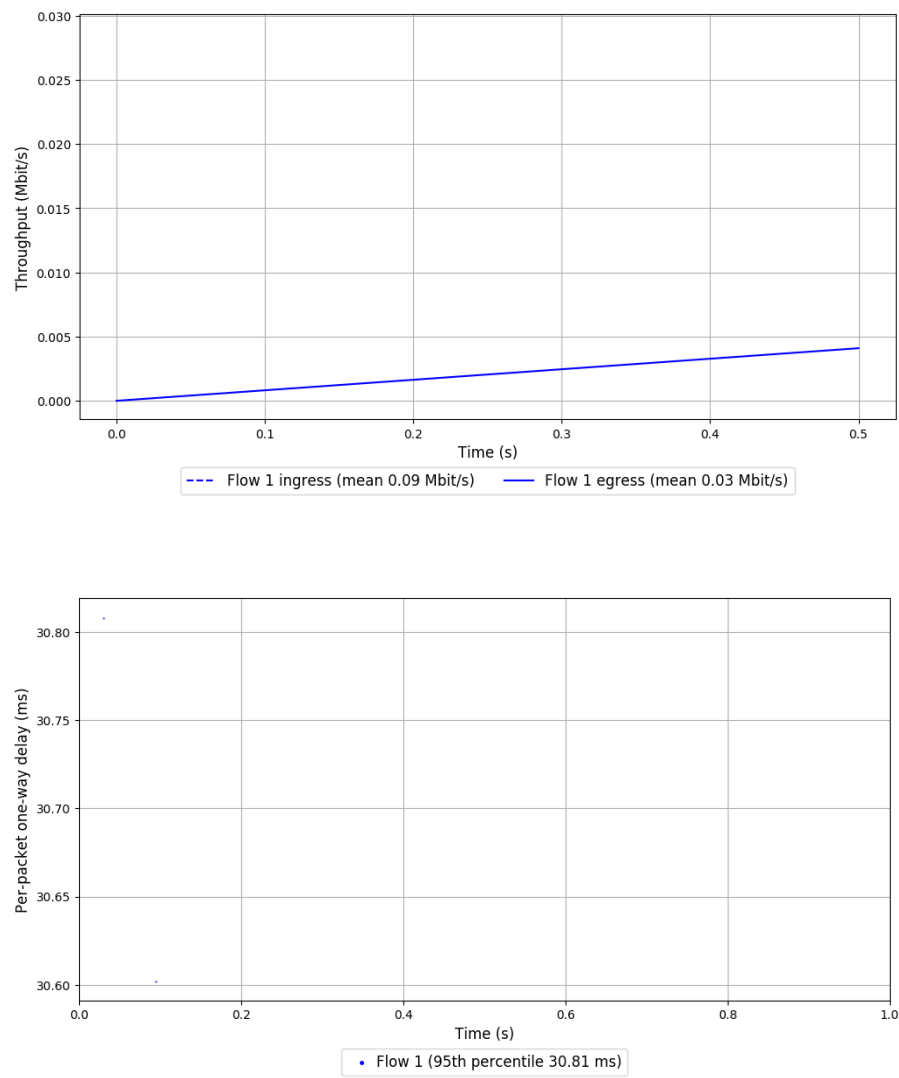
Start at: 2018-08-27 21:43:37

End at: 2018-08-27 21:44:07

Local clock offset: 0.993 ms

Remote clock offset: 6.262 ms

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

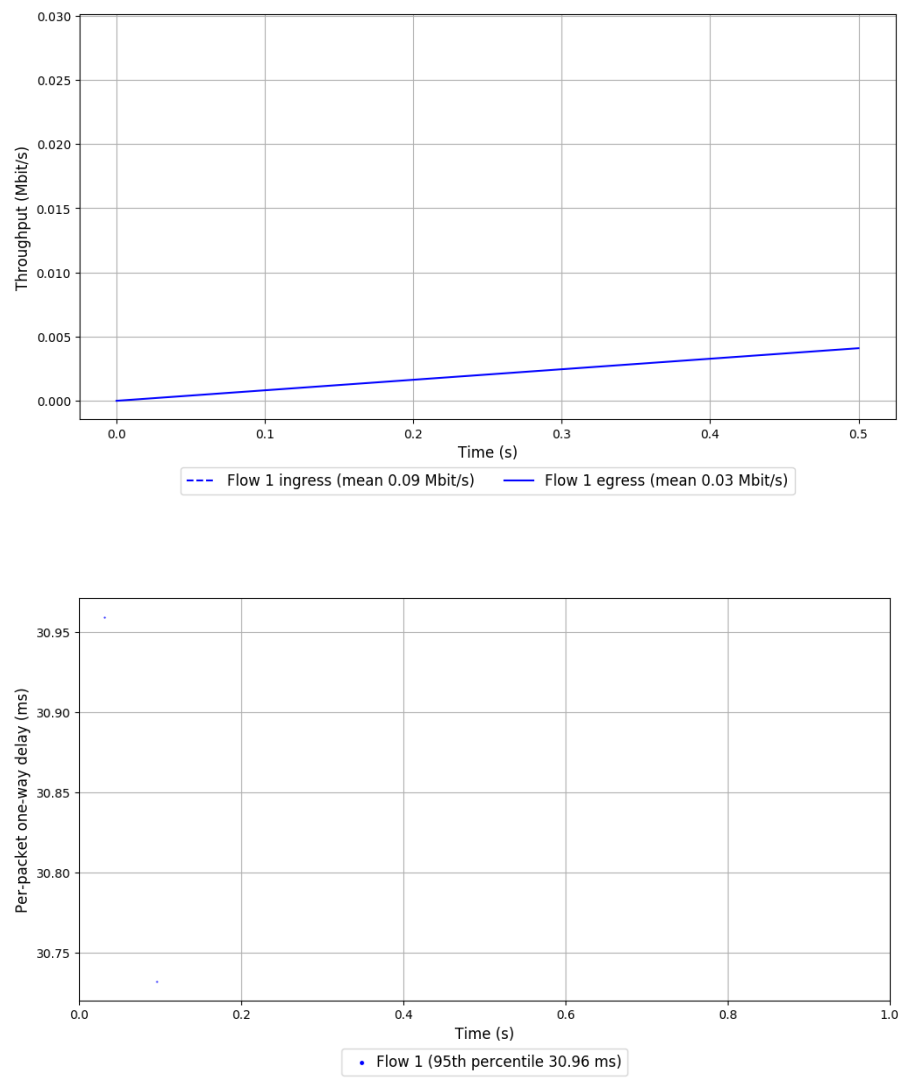
Start at: 2018-08-27 22:05:35

End at: 2018-08-27 22:06:05

Local clock offset: 1.088 ms

Remote clock offset: 7.123 ms

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

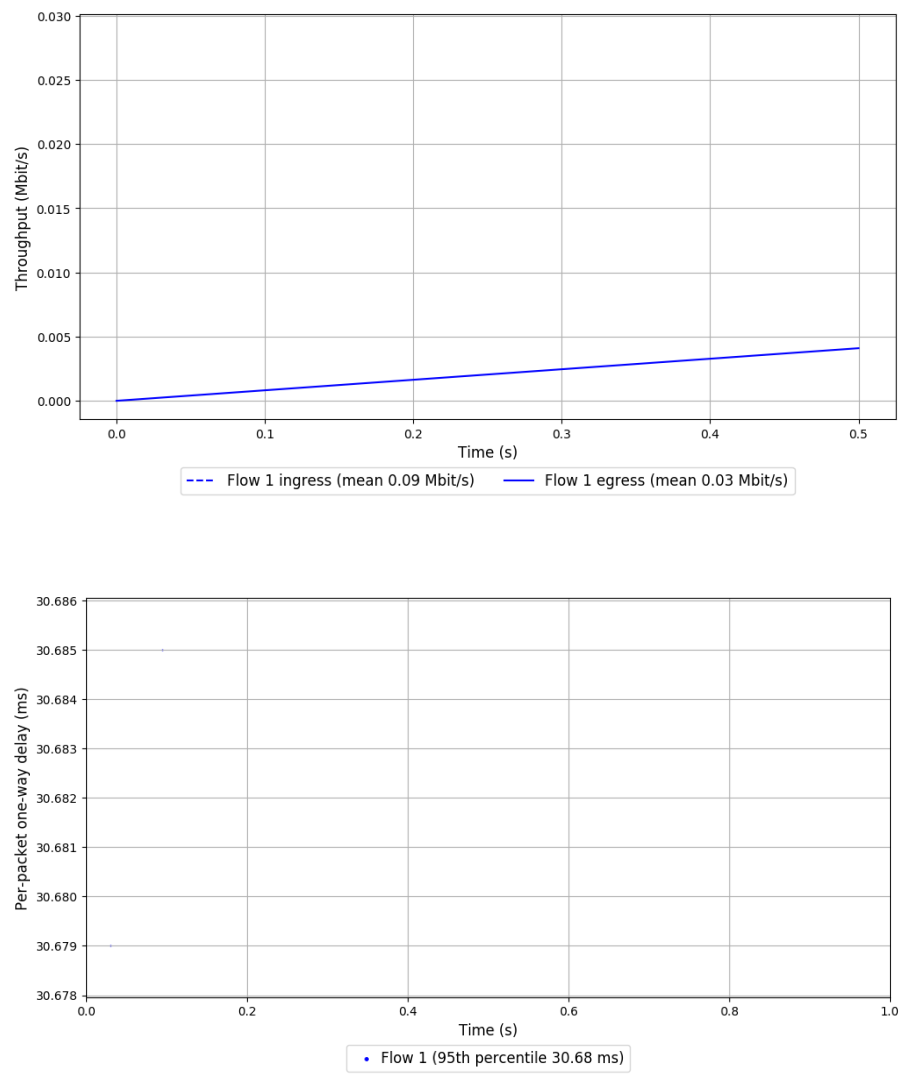
Start at: 2018-08-27 22:27:33

End at: 2018-08-27 22:28:03

Local clock offset: 1.138 ms

Remote clock offset: 8.798 ms

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

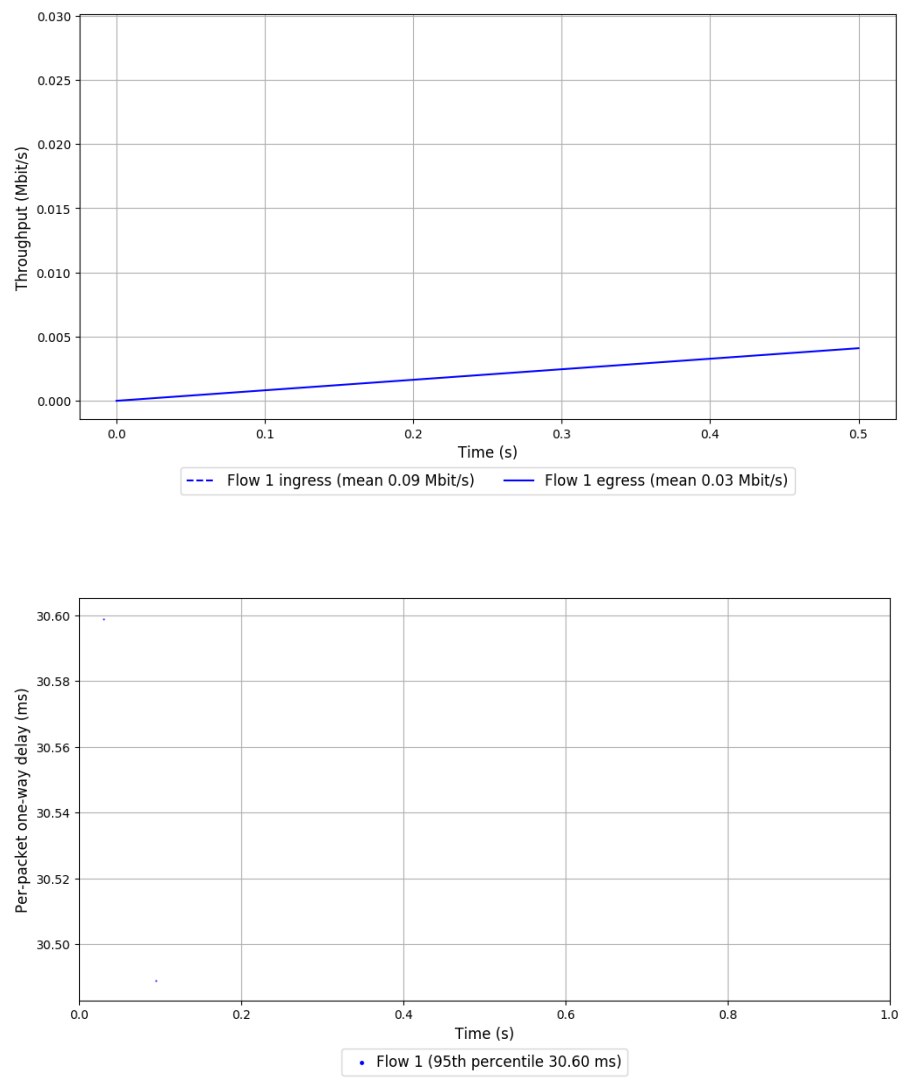
Start at: 2018-08-27 22:49:31

End at: 2018-08-27 22:50:01

Local clock offset: 0.981 ms

Remote clock offset: 8.362 ms

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

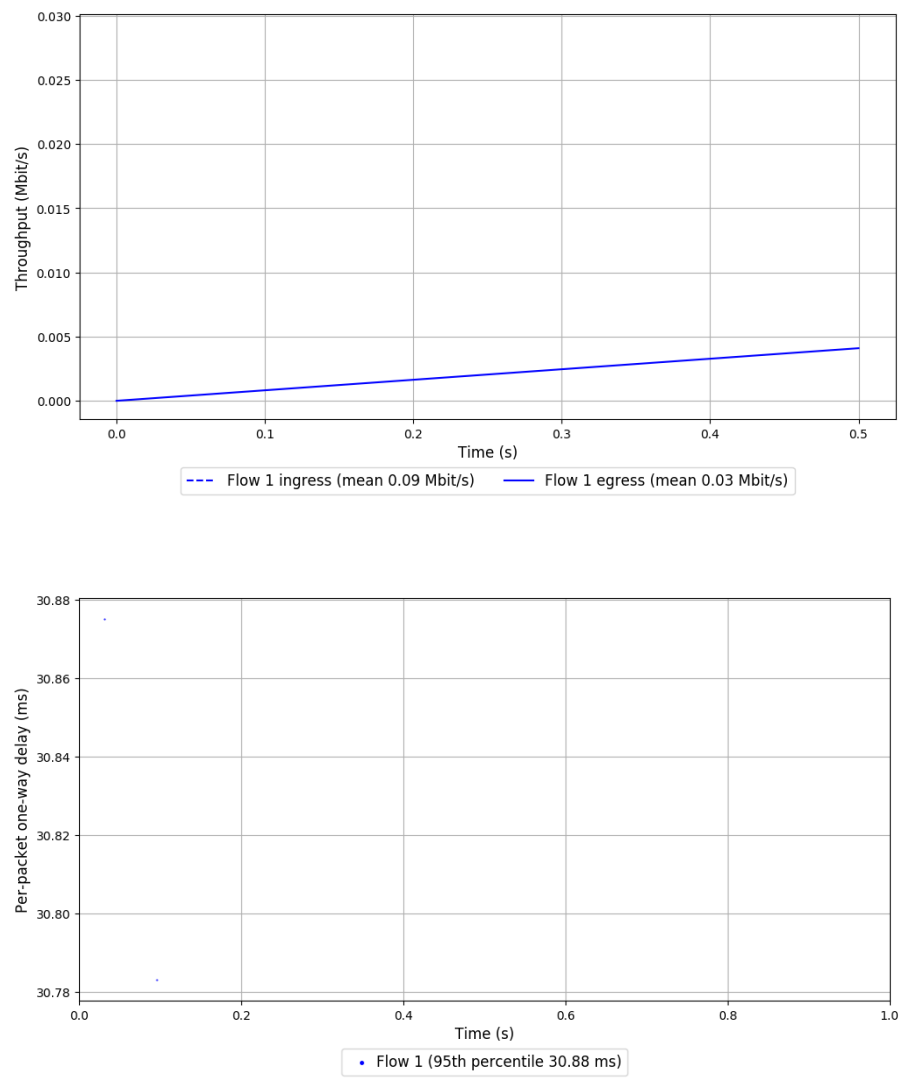
Start at: 2018-08-27 23:11:32

End at: 2018-08-27 23:12:02

Local clock offset: 0.907 ms

Remote clock offset: 8.049 ms

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

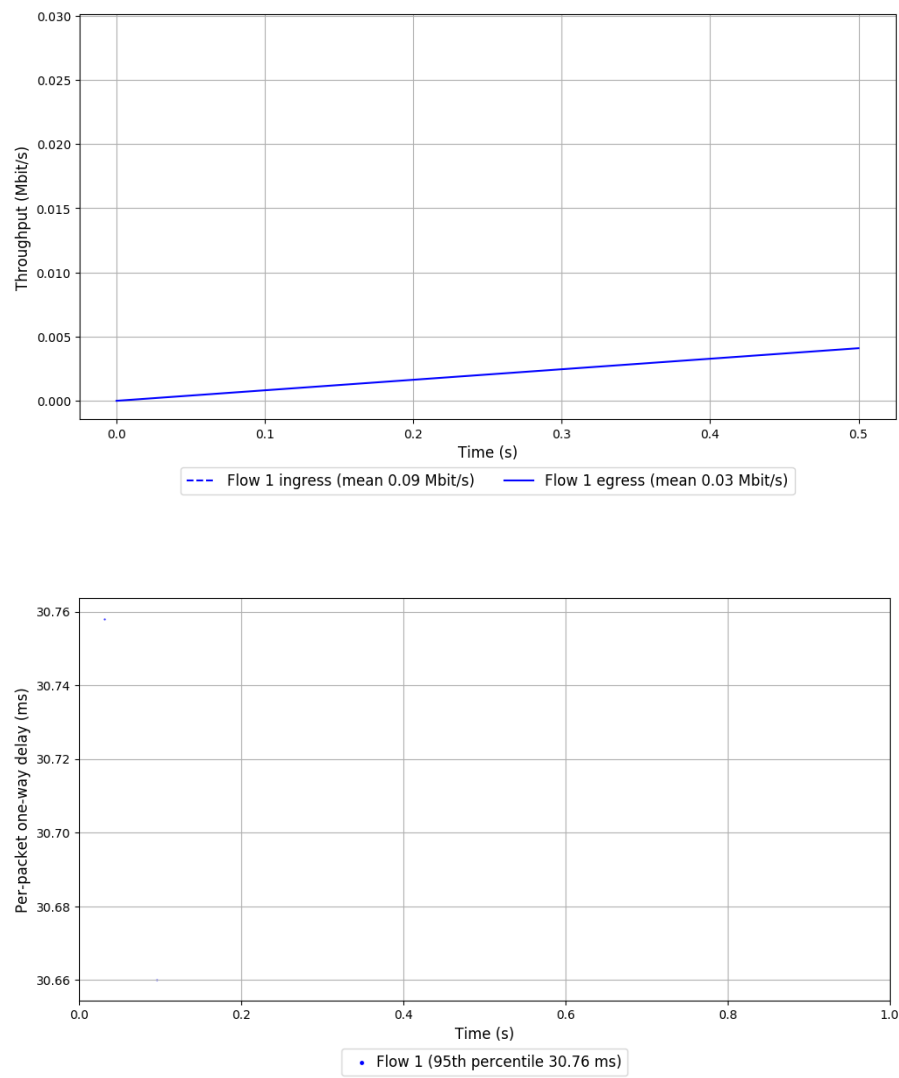
Start at: 2018-08-27 23:33:28

End at: 2018-08-27 23:33:58

Local clock offset: 1.058 ms

Remote clock offset: 6.5 ms

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

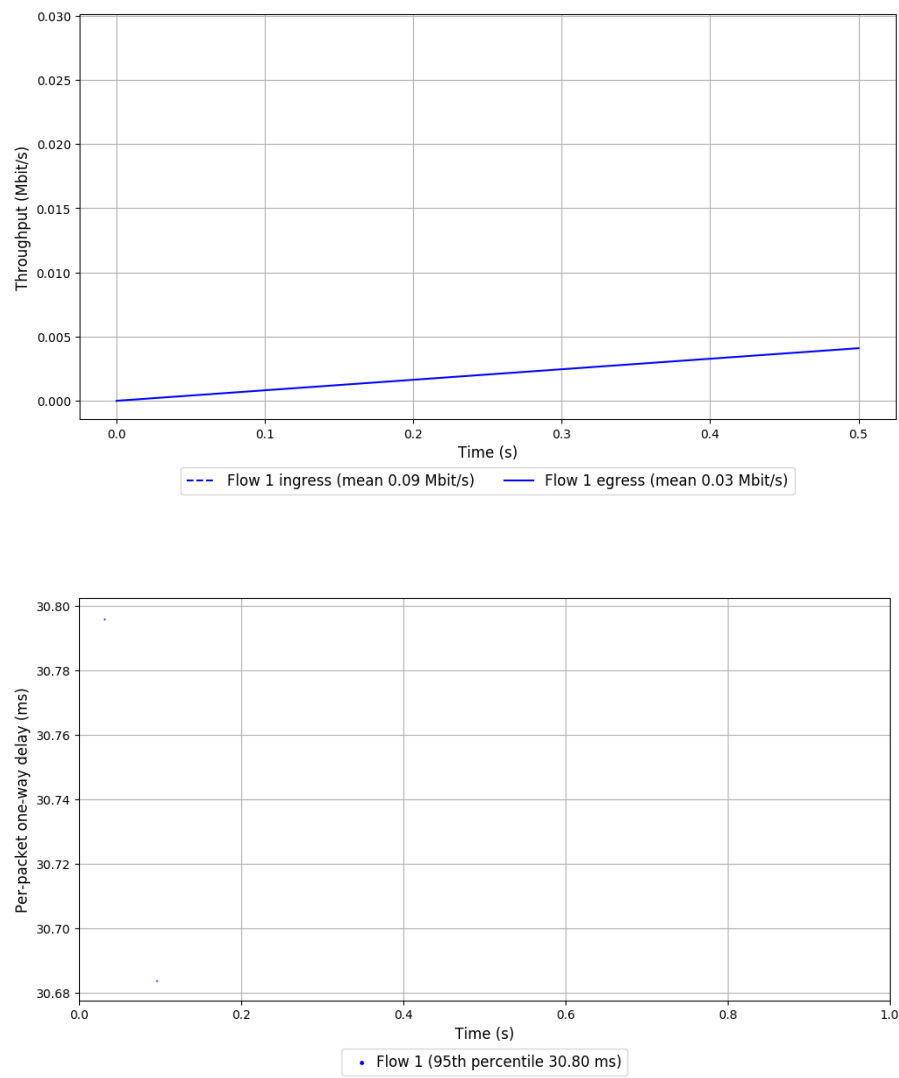
Start at: 2018-08-27 23:55:24

End at: 2018-08-27 23:55:54

Local clock offset: 0.863 ms

Remote clock offset: 4.142 ms

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

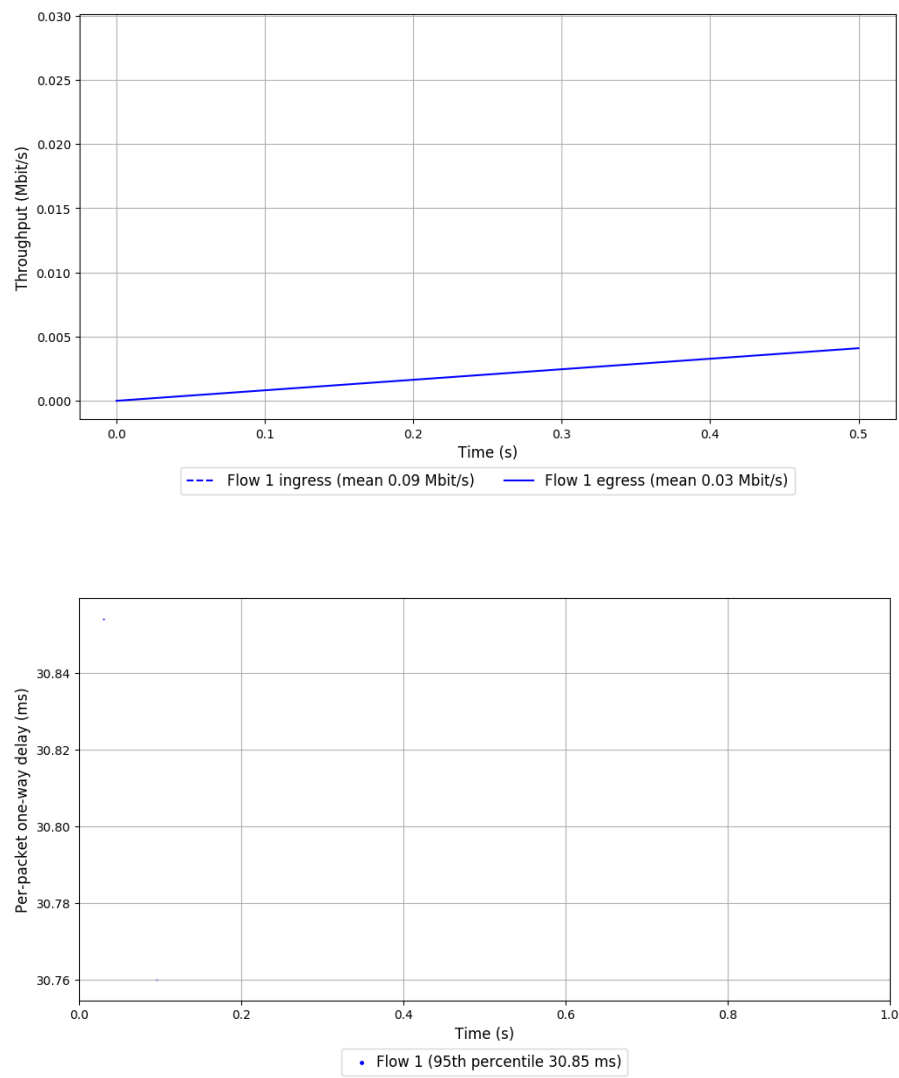
Start at: 2018-08-28 00:17:18

End at: 2018-08-28 00:17:48

Local clock offset: 0.403 ms

Remote clock offset: 2.957 ms

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

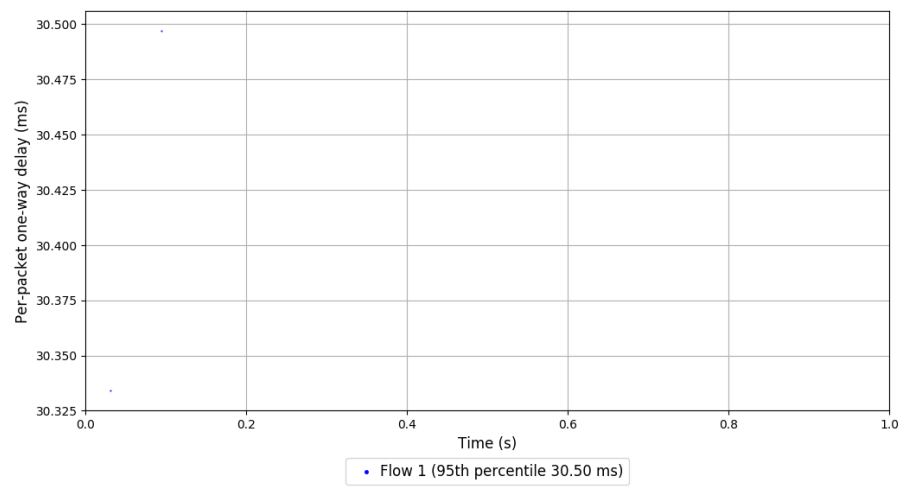
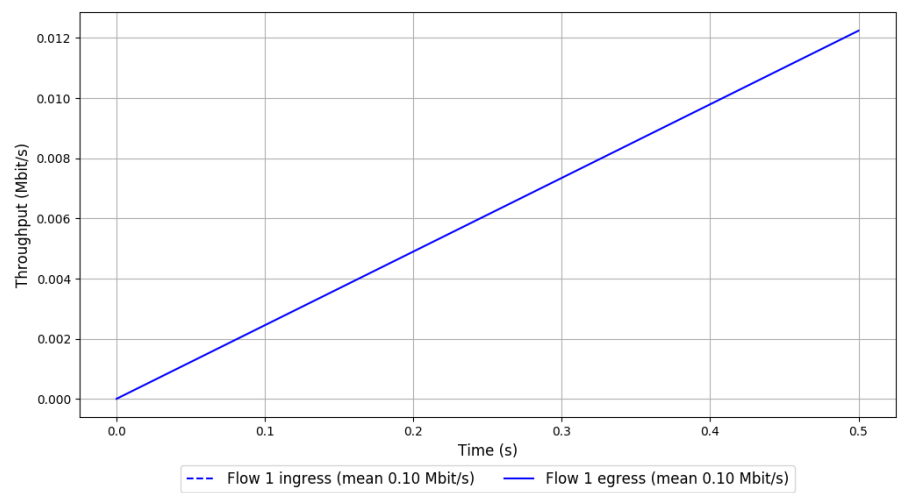
Start at: 2018-08-27 20:41:25

End at: 2018-08-27 20:41:55

Local clock offset: 1.468 ms

Remote clock offset: 3.635 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-08-27 21:03:22

End at: 2018-08-27 21:03:52

Local clock offset: 1.544 ms

Remote clock offset: 4.597 ms

Below is generated by plot.py at 2018-08-28 00:31:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.28 Mbit/s

95th percentile per-packet one-way delay: 63.342 ms

Loss rate: 1.07%

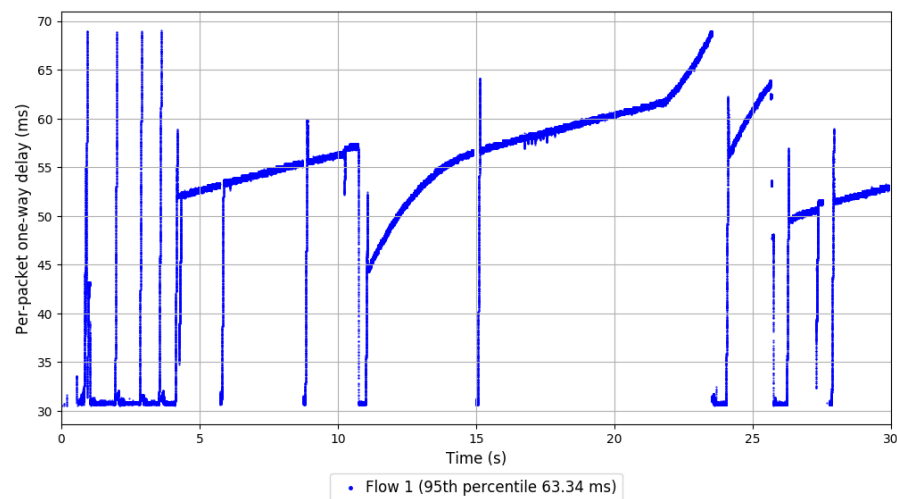
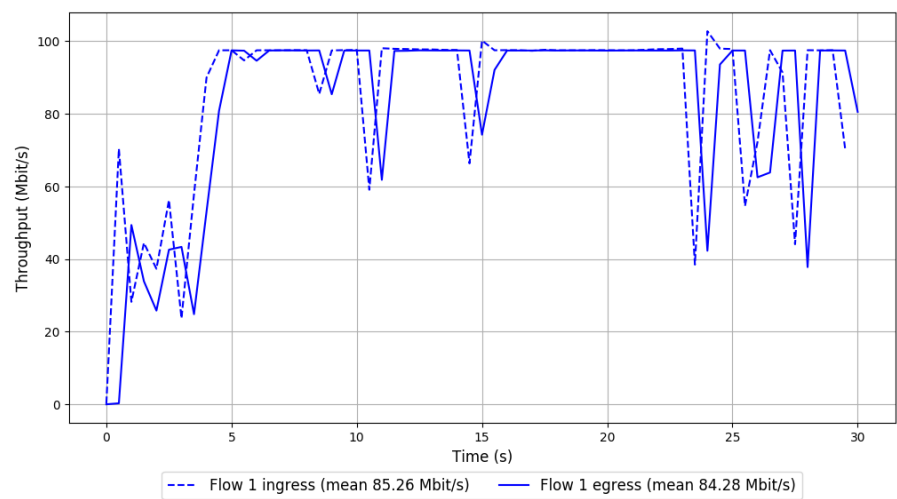
-- Flow 1:

Average throughput: 84.28 Mbit/s

95th percentile per-packet one-way delay: 63.342 ms

Loss rate: 1.07%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-08-27 21:25:27

End at: 2018-08-27 21:25:57

Local clock offset: 1.282 ms

Remote clock offset: 5.155 ms

Below is generated by plot.py at 2018-08-28 00:31:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.85 Mbit/s

95th percentile per-packet one-way delay: 60.975 ms

Loss rate: 1.79%

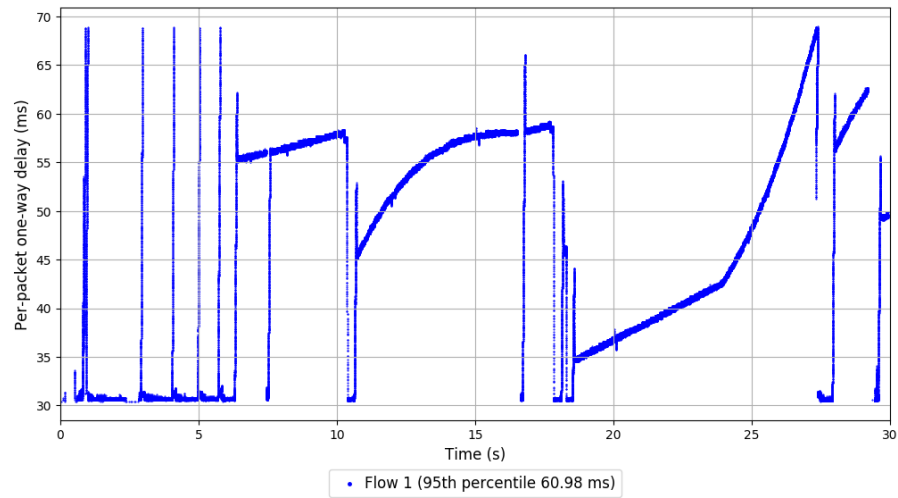
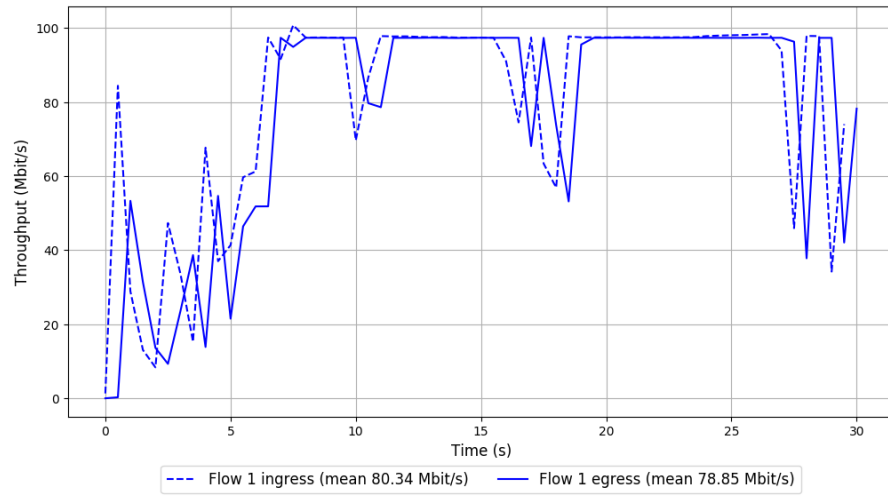
-- Flow 1:

Average throughput: 78.85 Mbit/s

95th percentile per-packet one-way delay: 60.975 ms

Loss rate: 1.79%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-08-27 21:47:27

End at: 2018-08-27 21:47:57

Local clock offset: 1.08 ms

Remote clock offset: 6.124 ms

Below is generated by plot.py at 2018-08-28 00:31:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.87 Mbit/s

95th percentile per-packet one-way delay: 63.179 ms

Loss rate: 1.70%

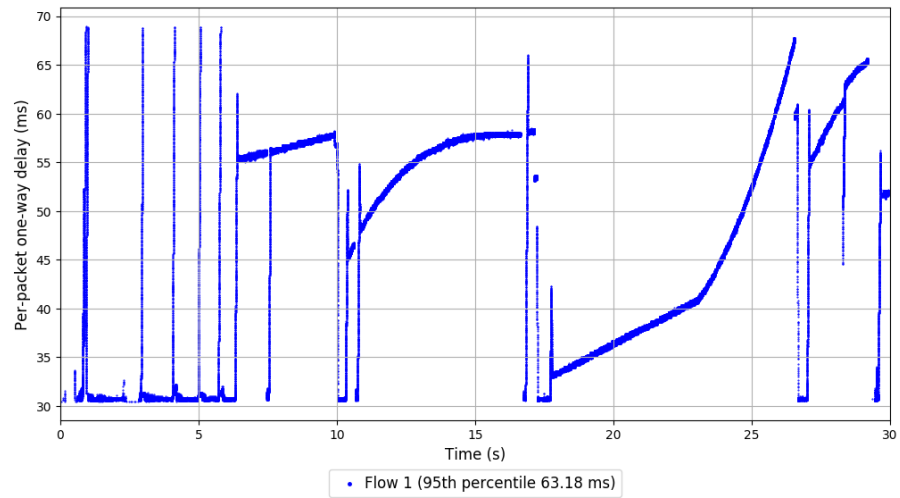
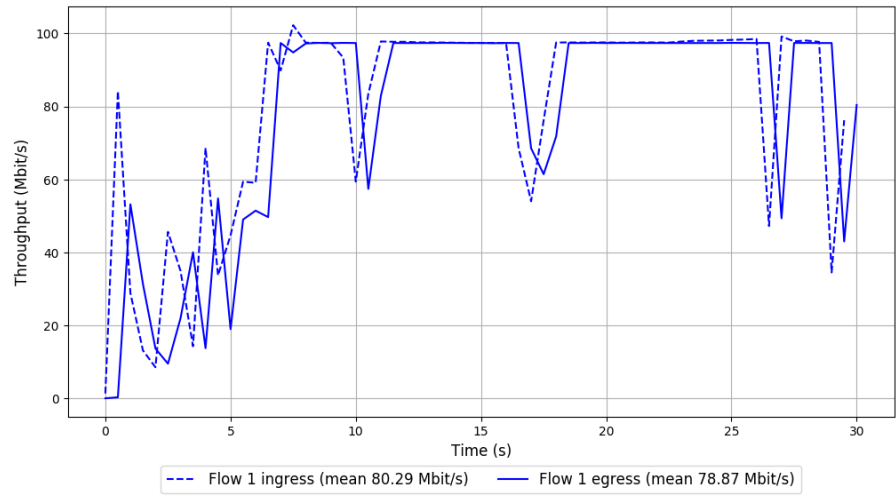
-- Flow 1:

Average throughput: 78.87 Mbit/s

95th percentile per-packet one-way delay: 63.179 ms

Loss rate: 1.70%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-08-27 22:09:25

End at: 2018-08-27 22:09:55

Local clock offset: 0.966 ms

Remote clock offset: 7.309 ms

Below is generated by plot.py at 2018-08-28 00:31:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.76 Mbit/s

95th percentile per-packet one-way delay: 67.446 ms

Loss rate: 1.78%

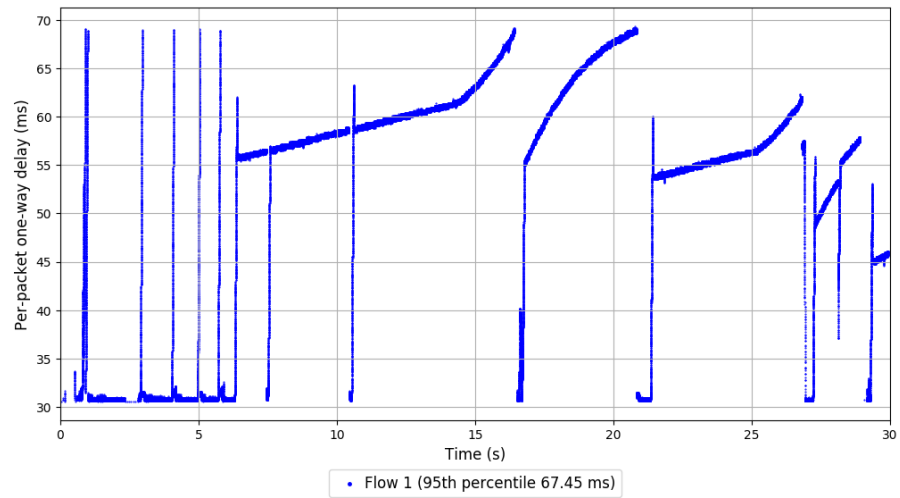
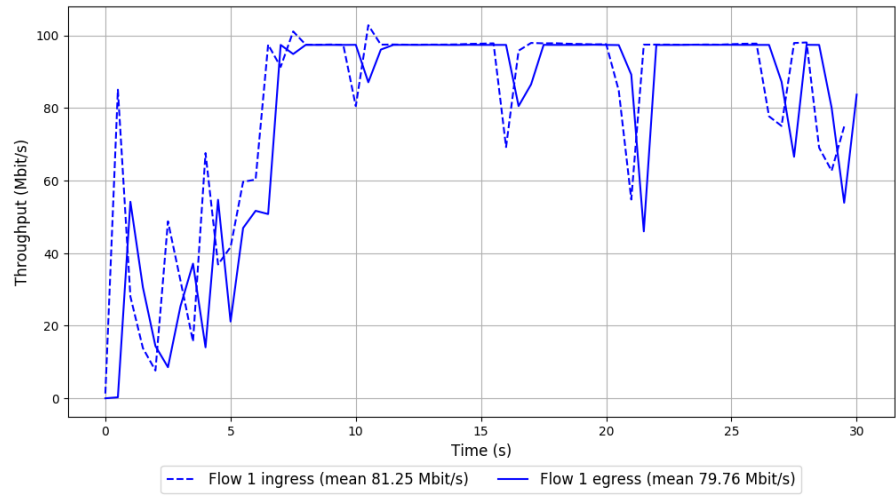
-- Flow 1:

Average throughput: 79.76 Mbit/s

95th percentile per-packet one-way delay: 67.446 ms

Loss rate: 1.78%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-08-27 22:31:23

End at: 2018-08-27 22:31:53

Local clock offset: 1.194 ms

Remote clock offset: 8.725 ms

Below is generated by plot.py at 2018-08-28 00:31:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.02 Mbit/s

95th percentile per-packet one-way delay: 60.074 ms

Loss rate: 1.65%

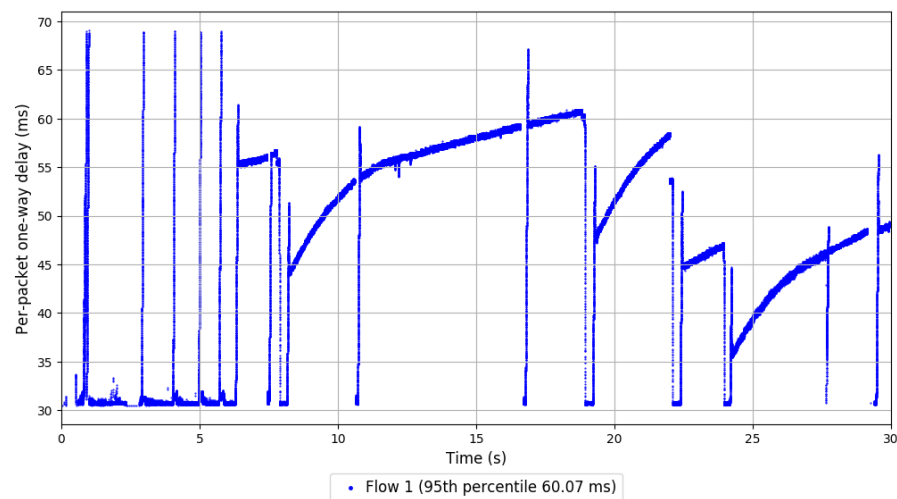
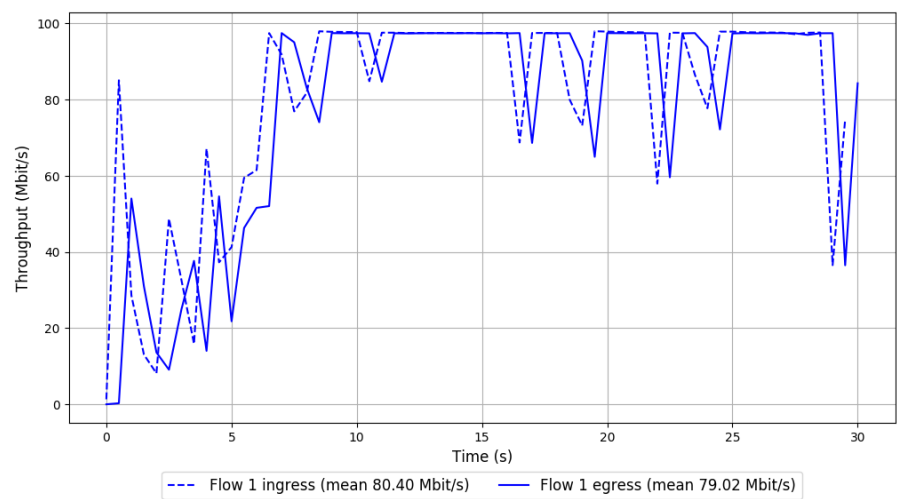
-- Flow 1:

Average throughput: 79.02 Mbit/s

95th percentile per-packet one-way delay: 60.074 ms

Loss rate: 1.65%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-08-27 22:53:21

End at: 2018-08-27 22:53:51

Local clock offset: 0.991 ms

Remote clock offset: 8.105 ms

Below is generated by plot.py at 2018-08-28 00:31:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.63 Mbit/s

95th percentile per-packet one-way delay: 67.679 ms

Loss rate: 1.10%

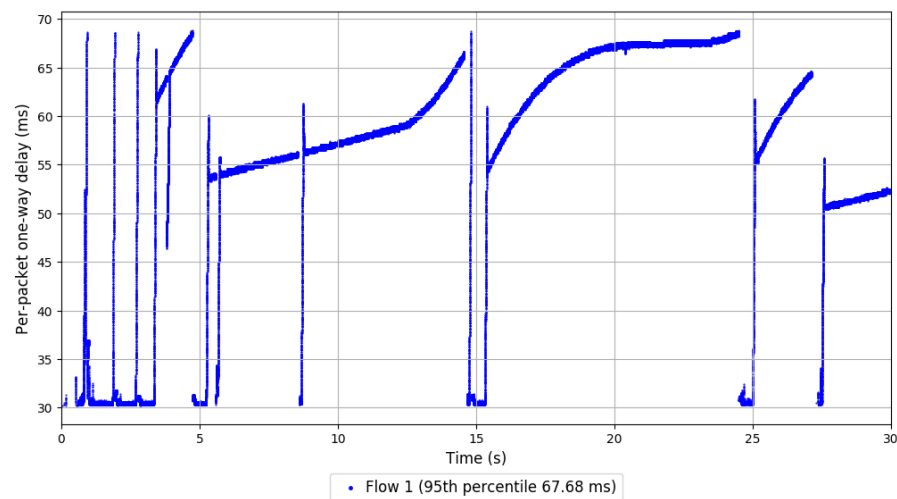
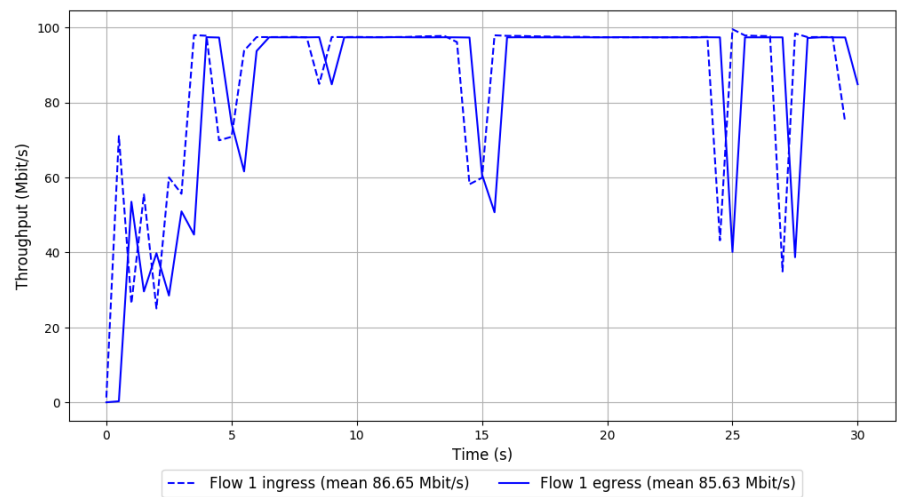
-- Flow 1:

Average throughput: 85.63 Mbit/s

95th percentile per-packet one-way delay: 67.679 ms

Loss rate: 1.10%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-08-27 23:15:22

End at: 2018-08-27 23:15:52

Local clock offset: 0.914 ms

Remote clock offset: 7.837 ms

Below is generated by plot.py at 2018-08-28 00:32:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.53 Mbit/s

95th percentile per-packet one-way delay: 67.360 ms

Loss rate: 1.74%

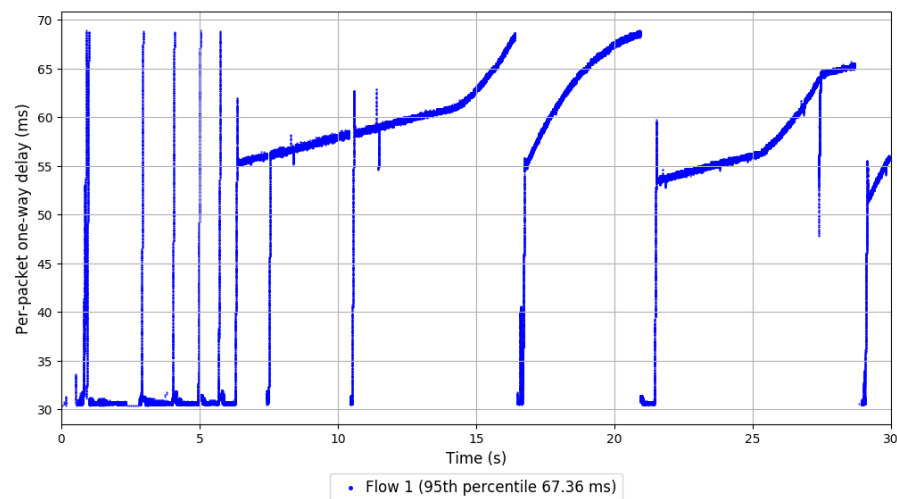
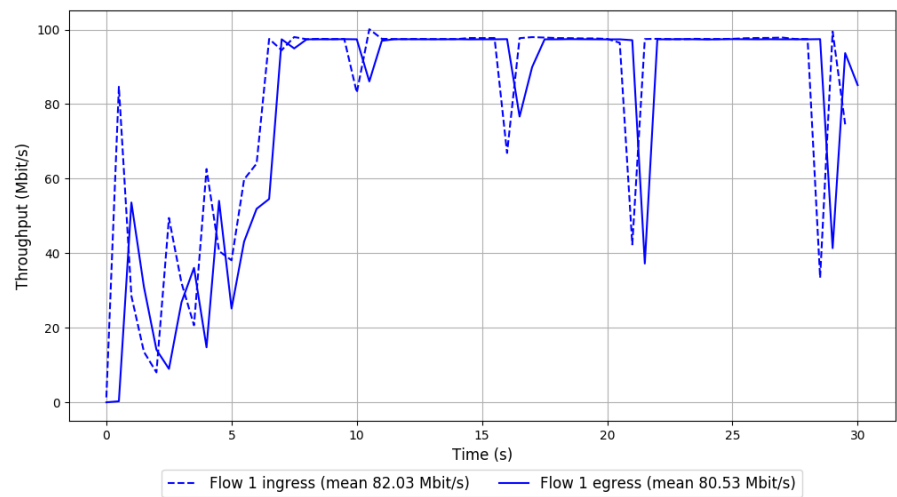
-- Flow 1:

Average throughput: 80.53 Mbit/s

95th percentile per-packet one-way delay: 67.360 ms

Loss rate: 1.74%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-08-27 23:37:17

End at: 2018-08-27 23:37:47

Local clock offset: 0.971 ms

Remote clock offset: 6.101 ms

Below is generated by plot.py at 2018-08-28 00:32:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.88 Mbit/s

95th percentile per-packet one-way delay: 67.573 ms

Loss rate: 1.06%

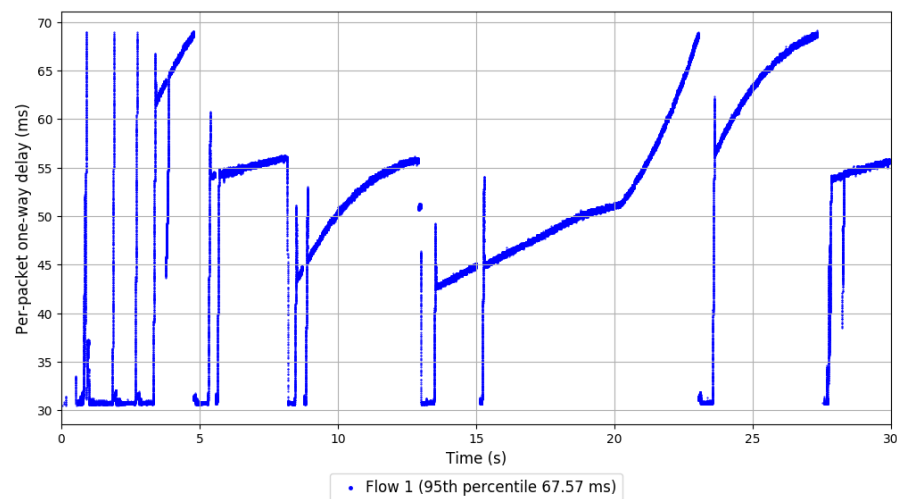
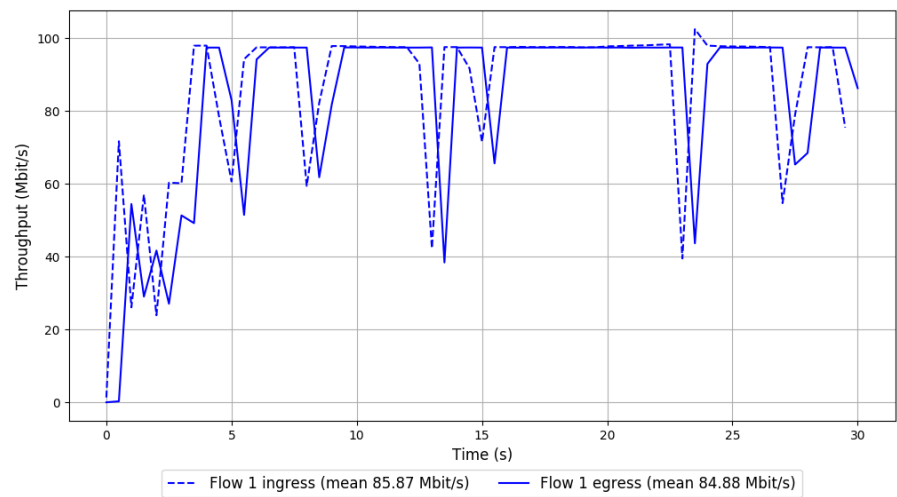
-- Flow 1:

Average throughput: 84.88 Mbit/s

95th percentile per-packet one-way delay: 67.573 ms

Loss rate: 1.06%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-08-27 23:59:14

End at: 2018-08-27 23:59:44

Local clock offset: 0.848 ms

Remote clock offset: 3.9 ms

Below is generated by plot.py at 2018-08-28 00:32:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.79 Mbit/s

95th percentile per-packet one-way delay: 66.162 ms

Loss rate: 1.64%

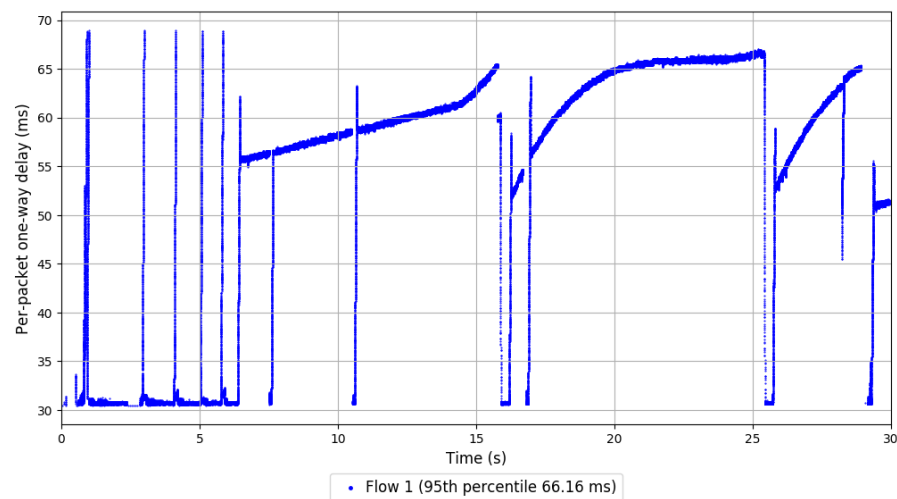
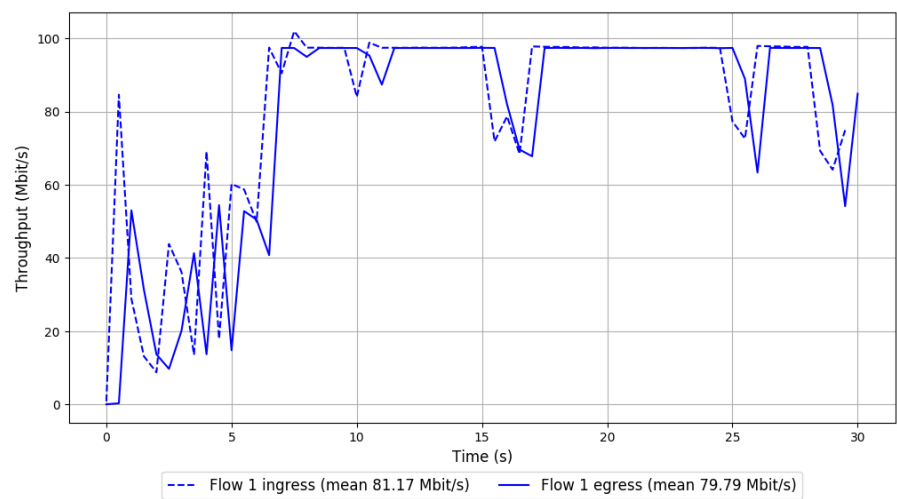
-- Flow 1:

Average throughput: 79.79 Mbit/s

95th percentile per-packet one-way delay: 66.162 ms

Loss rate: 1.64%

Run 10: Report of QUIC Cubic — Data Link

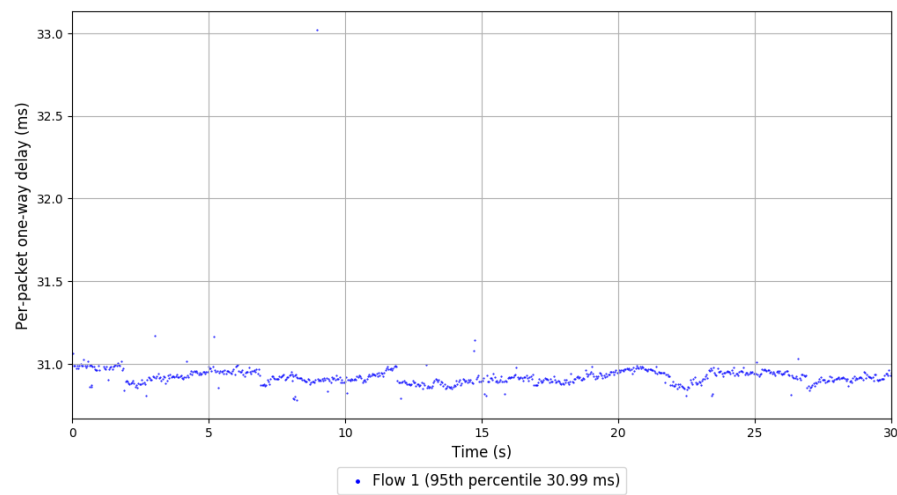
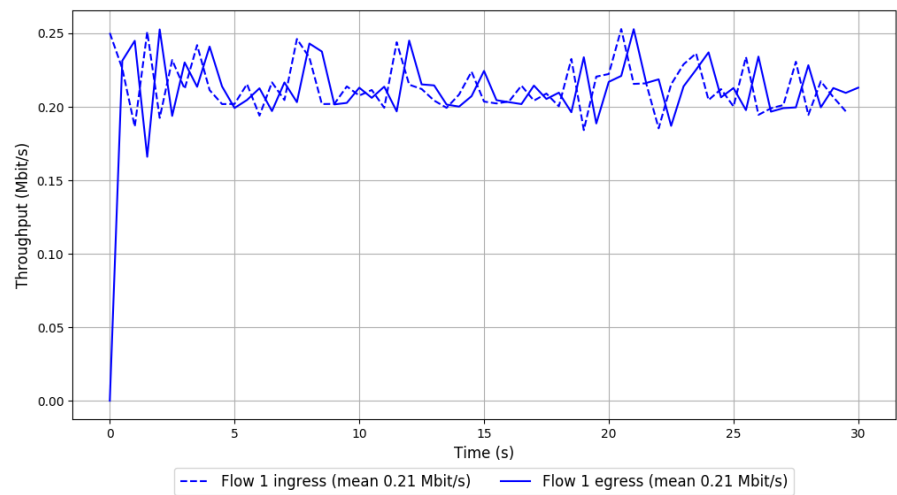


```
Run 1: Statistics of SCReAM

Start at: 2018-08-27 20:58:16
End at: 2018-08-27 20:58:46
Local clock offset: 1.518 ms
Remote clock offset: 4.327 ms

# Below is generated by plot.py at 2018-08-28 00:32:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.987 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.987 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

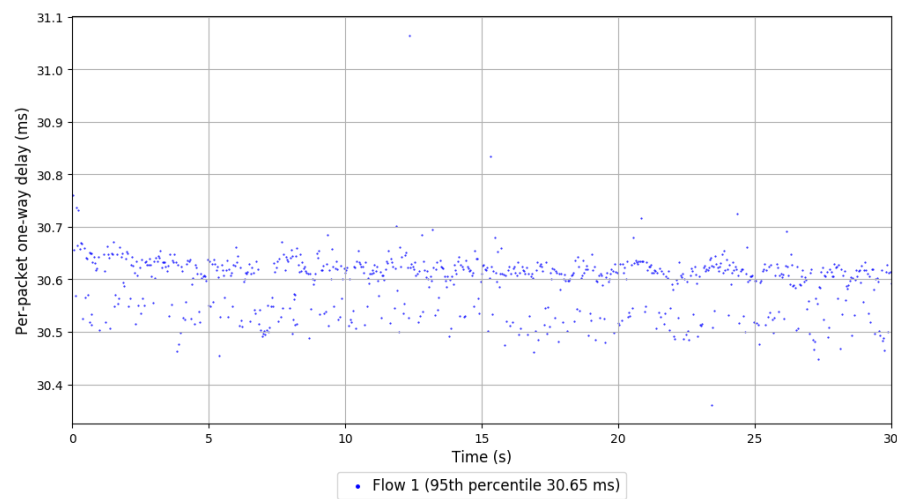
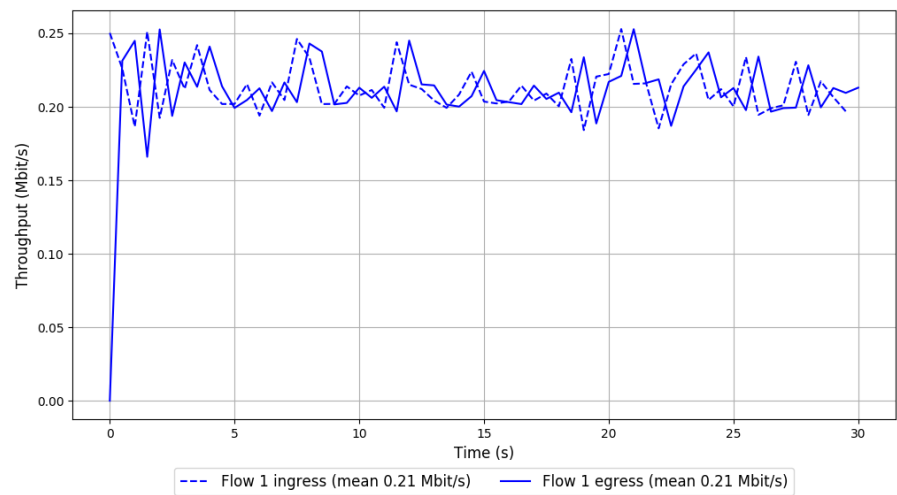


```
Run 2: Statistics of SCReAM

Start at: 2018-08-27 21:20:20
End at: 2018-08-27 21:20:50
Local clock offset: 1.229 ms
Remote clock offset: 4.83 ms

# Below is generated by plot.py at 2018-08-28 00:32:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.652 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.652 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-08-27 21:42:22

End at: 2018-08-27 21:42:52

Local clock offset: 1.015 ms

Remote clock offset: 6.289 ms

Below is generated by plot.py at 2018-08-28 00:32:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.832 ms

Loss rate: 0.00%

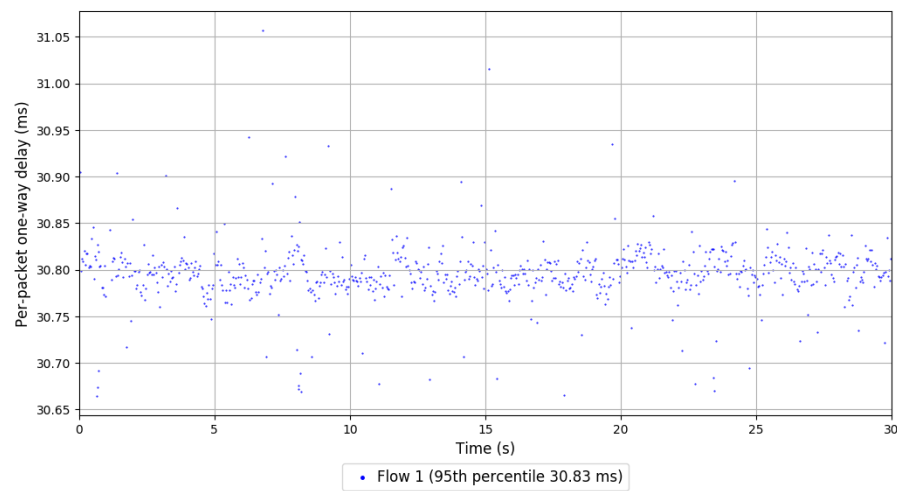
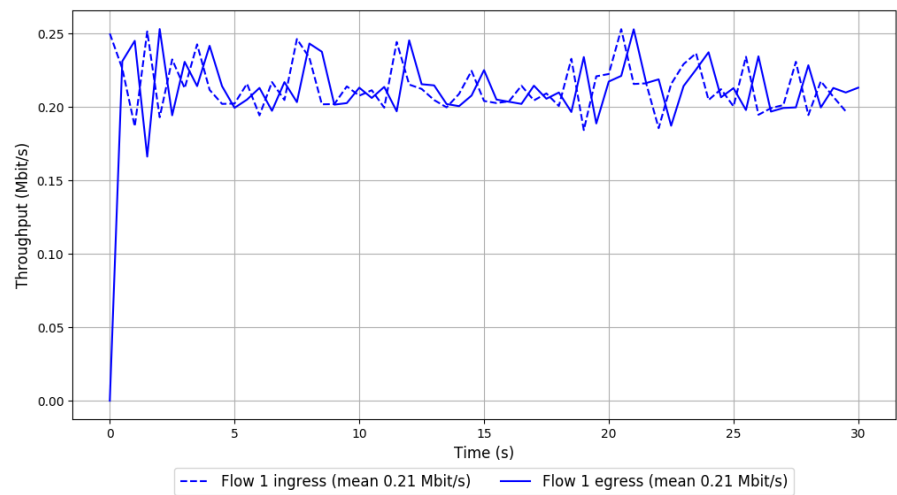
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.832 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-08-27 22:04:20

End at: 2018-08-27 22:04:50

Local clock offset: 1.123 ms

Remote clock offset: 6.9 ms

Below is generated by plot.py at 2018-08-28 00:32:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.808 ms

Loss rate: 0.00%

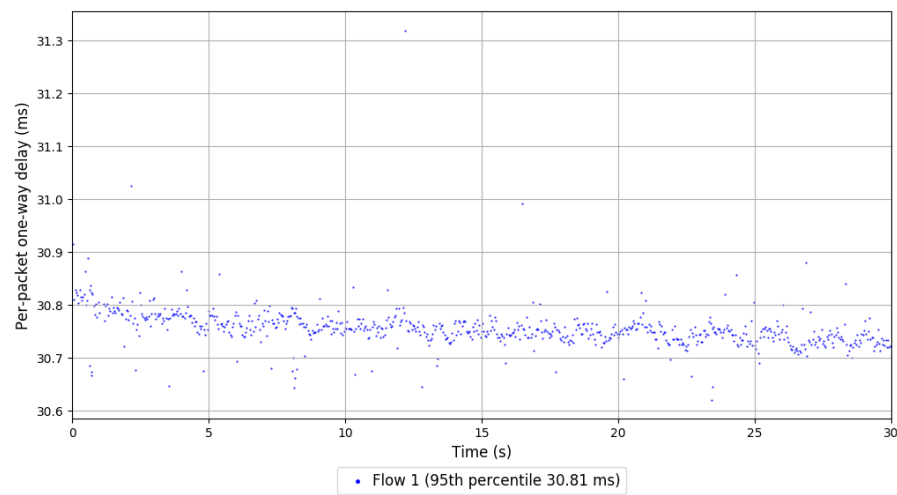
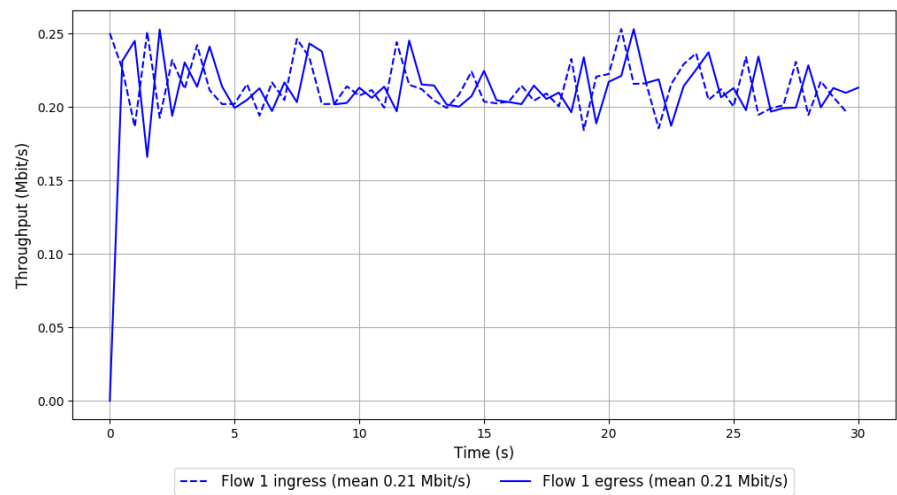
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.808 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-08-27 22:26:18

End at: 2018-08-27 22:26:48

Local clock offset: 1.04 ms

Remote clock offset: 8.847 ms

Below is generated by plot.py at 2018-08-28 00:32:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.952 ms

Loss rate: 0.00%

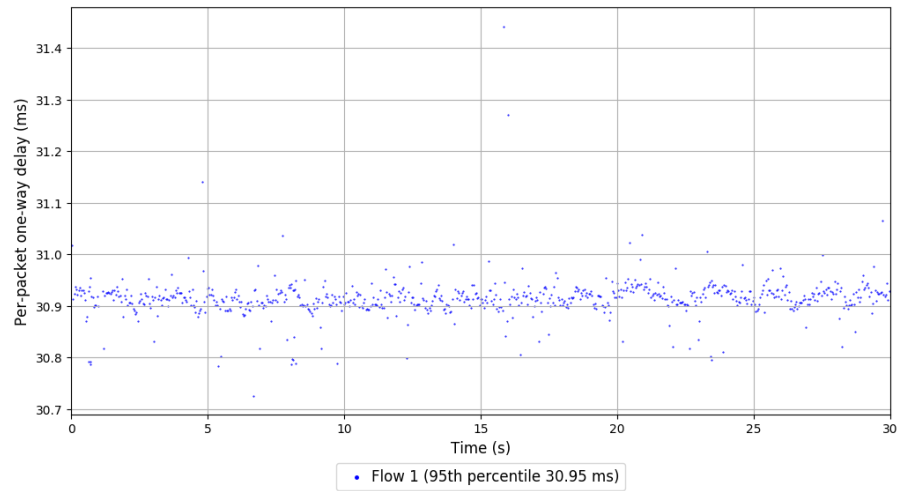
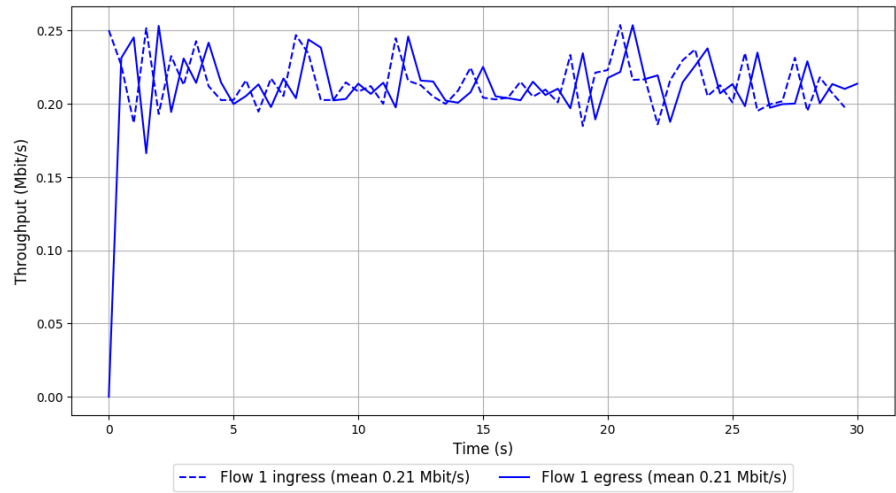
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.952 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-08-27 22:48:15

End at: 2018-08-27 22:48:45

Local clock offset: 0.896 ms

Remote clock offset: 8.552 ms

Below is generated by plot.py at 2018-08-28 00:32:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.869 ms

Loss rate: 0.00%

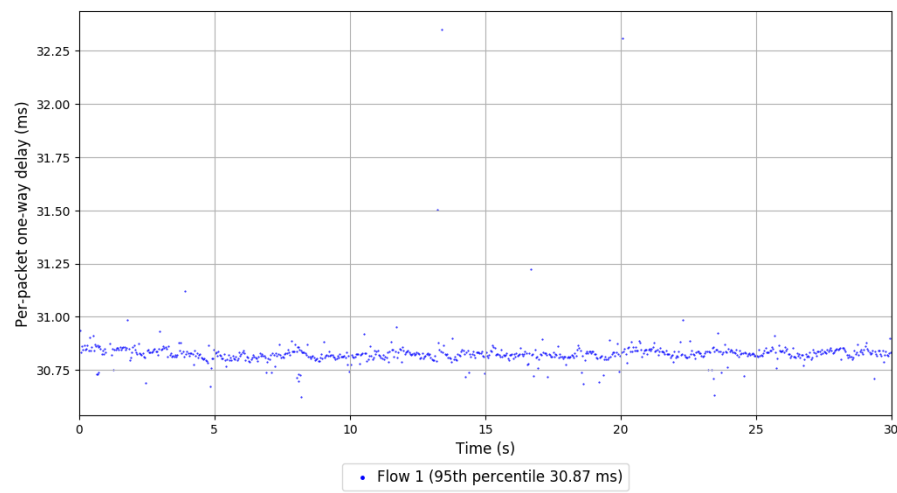
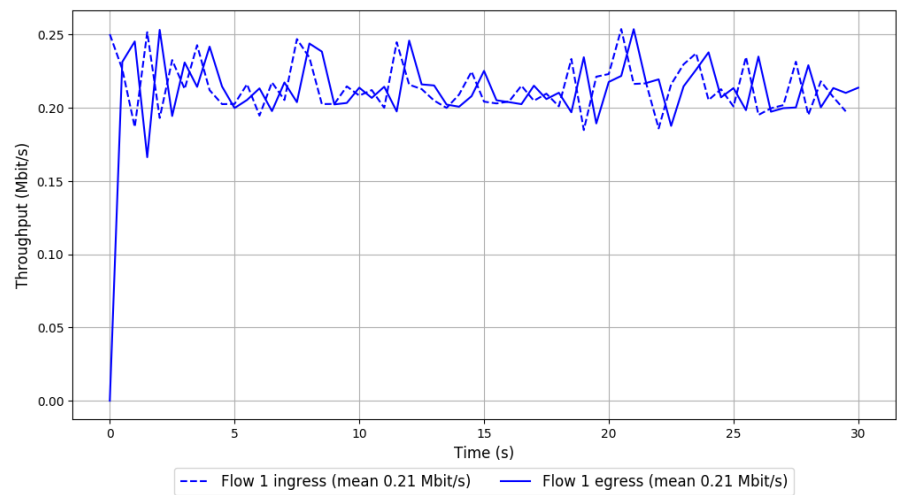
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.869 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2018-08-27 23:10:17

End at: 2018-08-27 23:10:47

Local clock offset: 1.005 ms

Remote clock offset: 8.023 ms

Below is generated by plot.py at 2018-08-28 00:32:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.758 ms

Loss rate: 0.00%

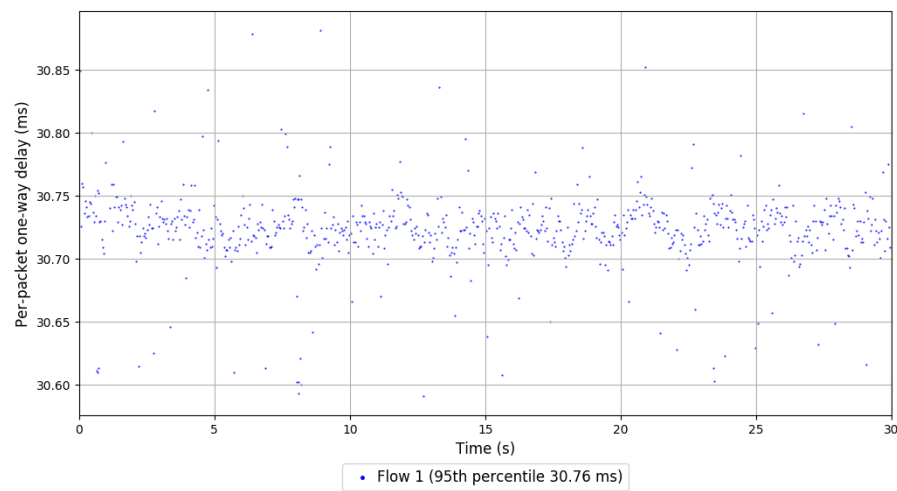
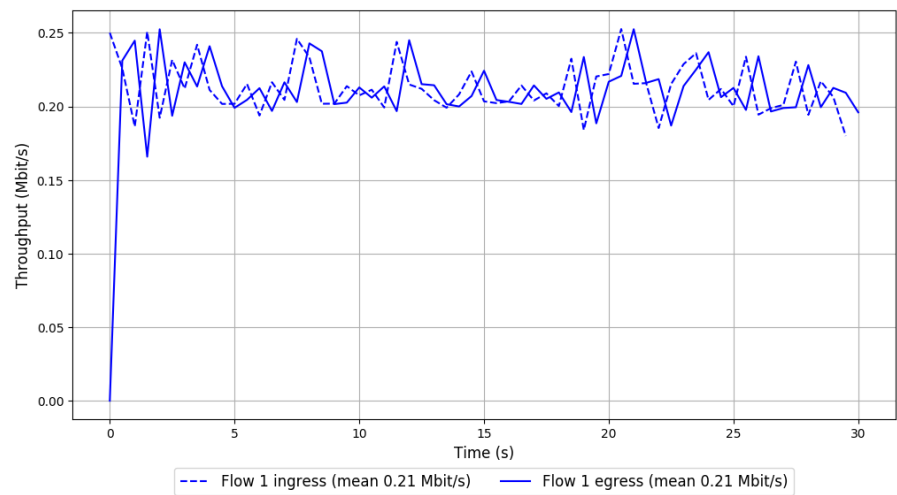
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.758 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-08-27 23:32:13

End at: 2018-08-27 23:32:43

Local clock offset: 0.985 ms

Remote clock offset: 6.459 ms

Below is generated by plot.py at 2018-08-28 00:32:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.733 ms

Loss rate: 0.00%

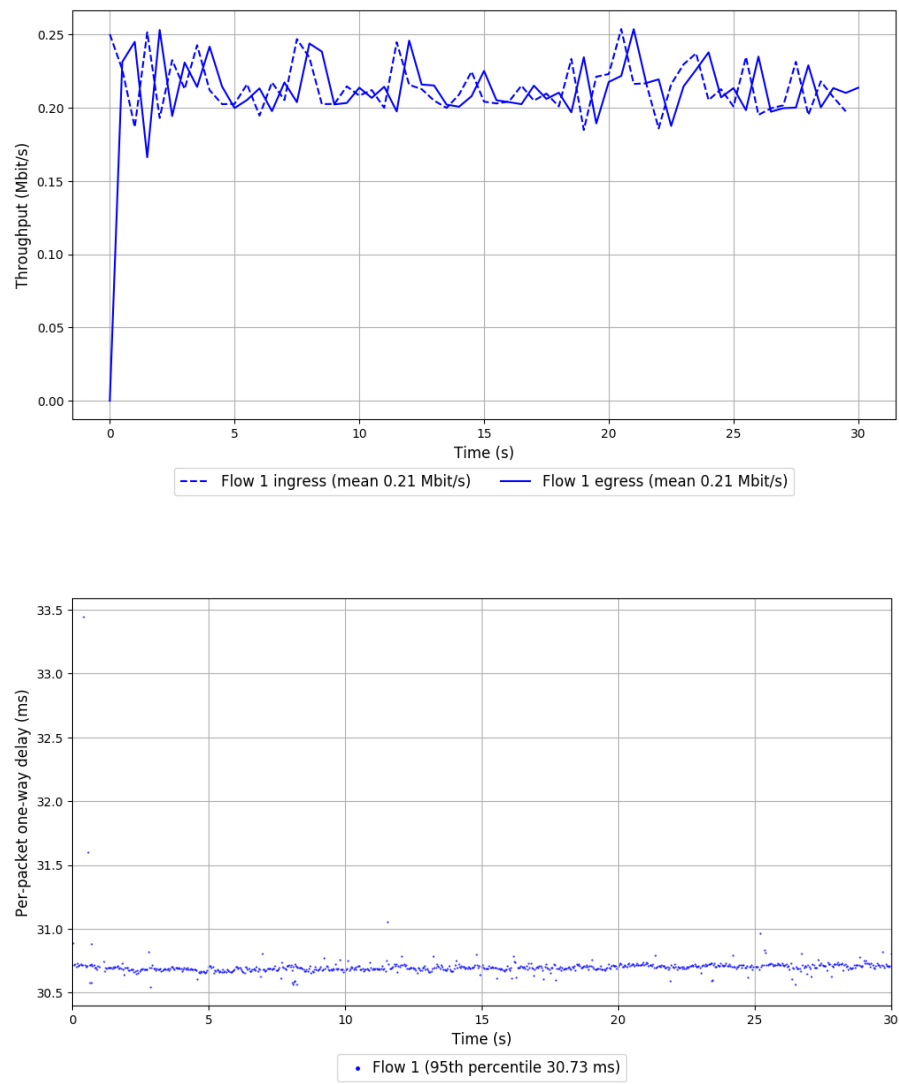
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.733 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-08-27 23:54:09

End at: 2018-08-27 23:54:39

Local clock offset: 0.871 ms

Remote clock offset: 4.208 ms

Below is generated by plot.py at 2018-08-28 00:32:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.865 ms

Loss rate: 0.00%

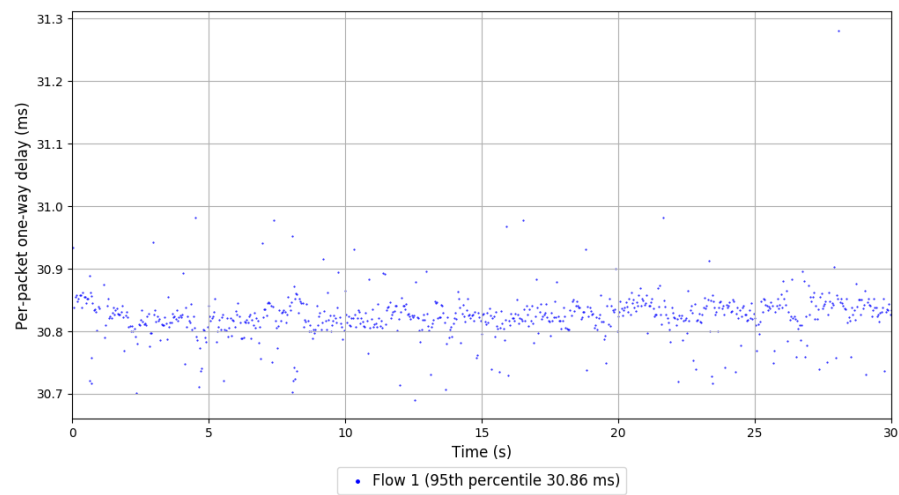
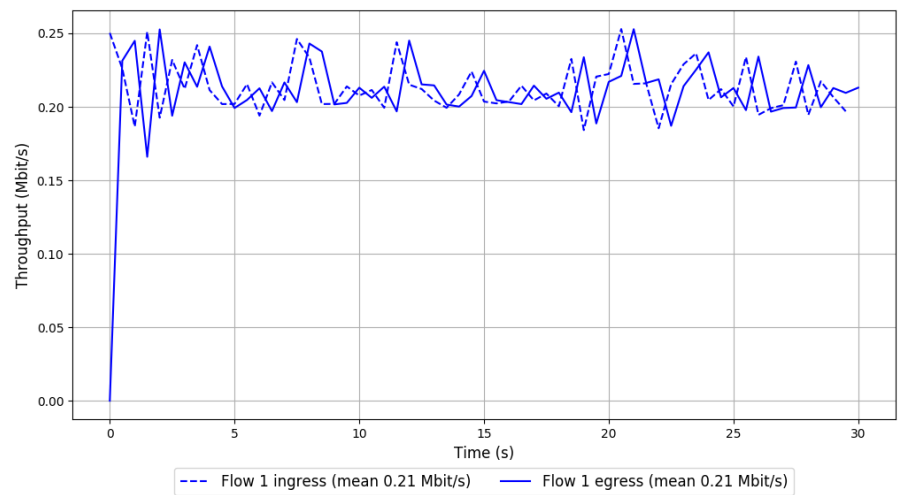
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.865 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-08-28 00:16:03

End at: 2018-08-28 00:16:33

Local clock offset: 0.511 ms

Remote clock offset: 2.98 ms

Below is generated by plot.py at 2018-08-28 00:32:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.791 ms

Loss rate: 0.00%

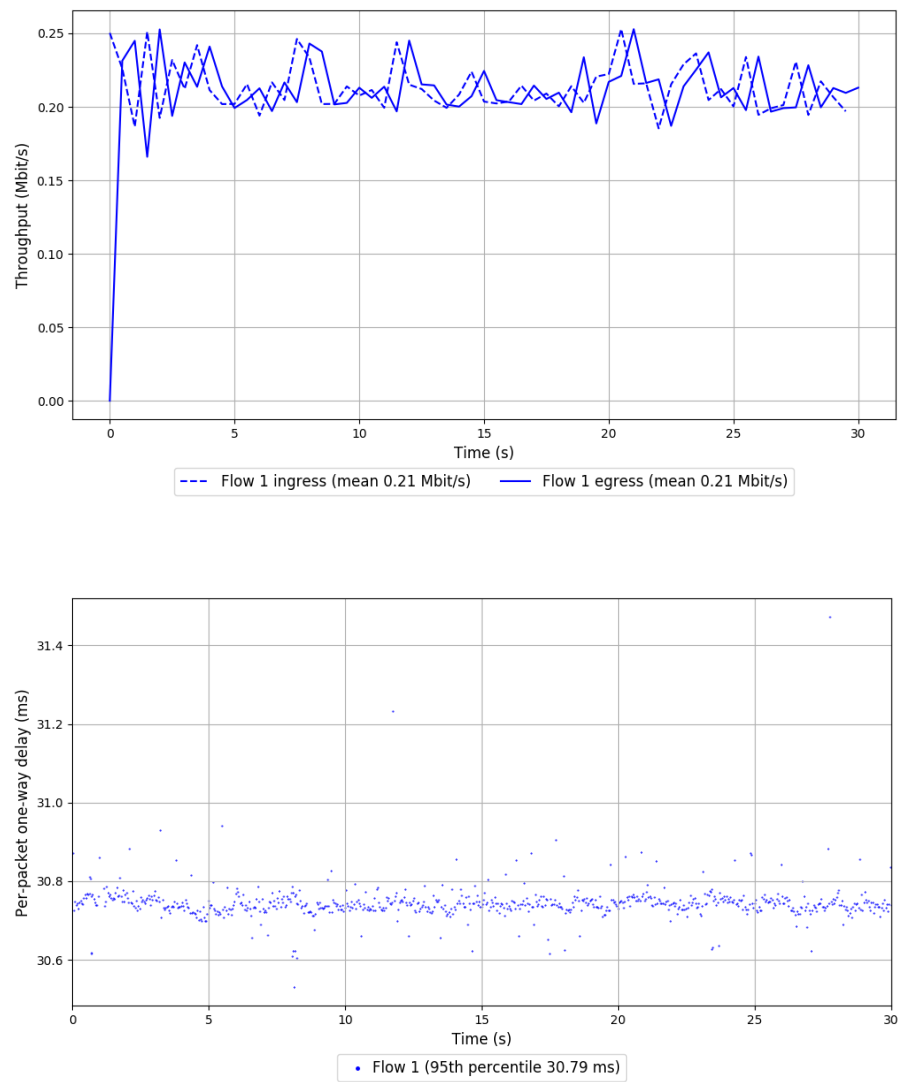
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.791 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

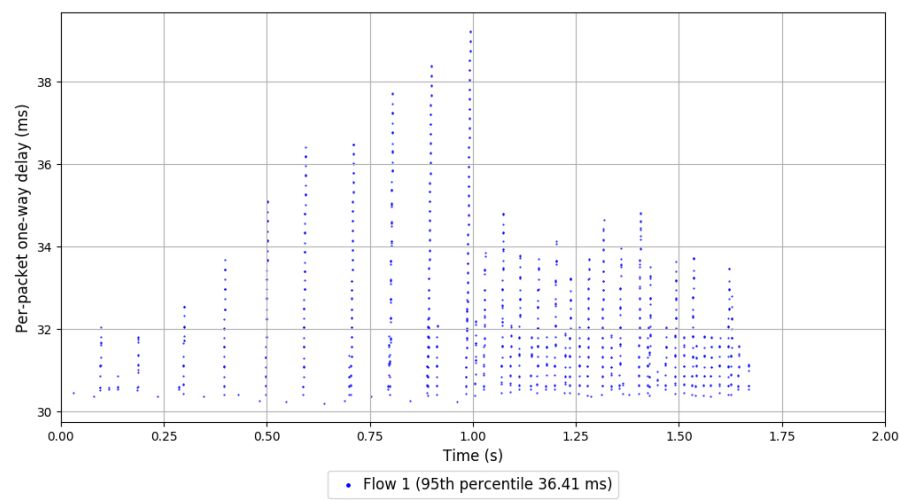
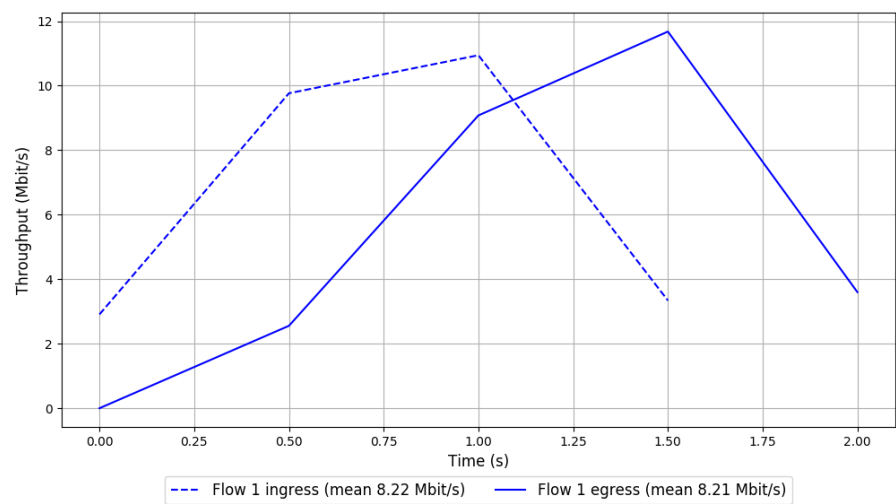
Start at: 2018-08-27 20:42:39

End at: 2018-08-27 20:43:09

Local clock offset: 1.442 ms

Remote clock offset: 3.614 ms

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-08-27 21:04:41

End at: 2018-08-27 21:05:11

Local clock offset: 1.546 ms

Remote clock offset: 4.669 ms

Below is generated by plot.py at 2018-08-28 00:32:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.16 Mbit/s

95th percentile per-packet one-way delay: 36.694 ms

Loss rate: 0.00%

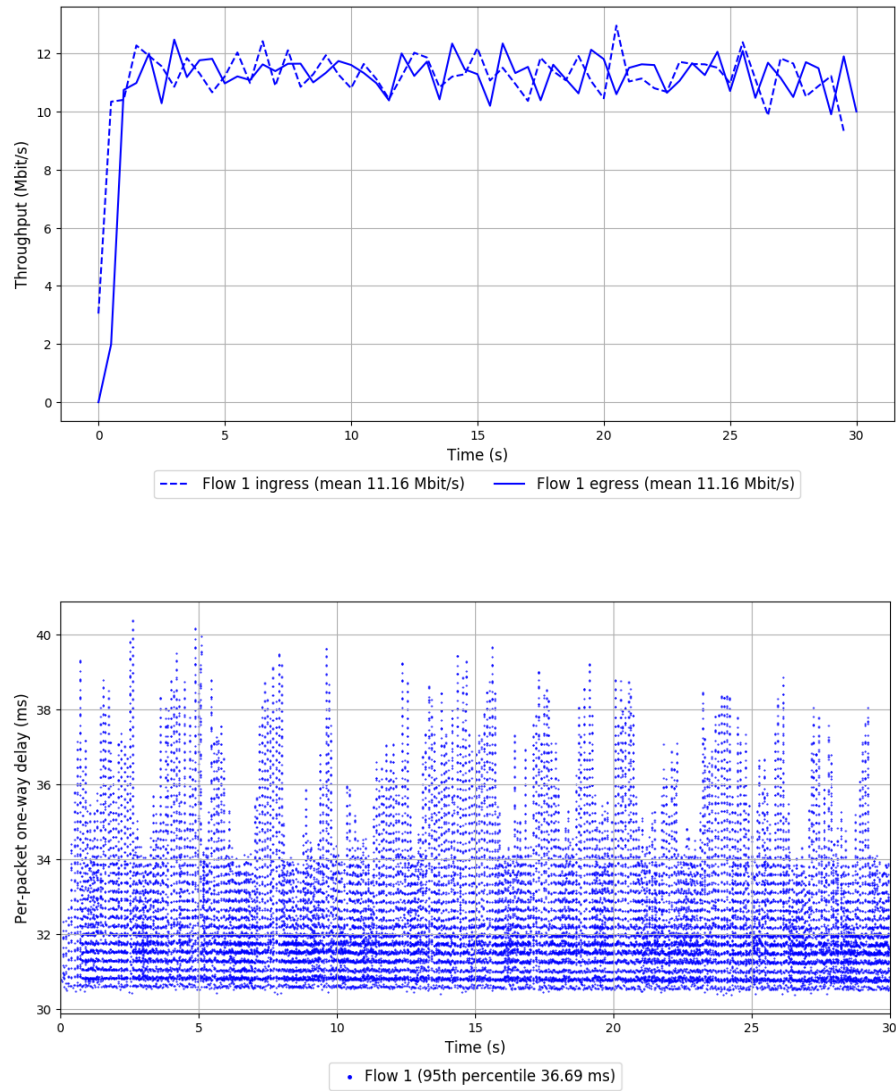
-- Flow 1:

Average throughput: 11.16 Mbit/s

95th percentile per-packet one-way delay: 36.694 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-08-27 21:26:47

End at: 2018-08-27 21:27:17

Local clock offset: 1.385 ms

Remote clock offset: 5.393 ms

Below is generated by plot.py at 2018-08-28 00:32:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.94 Mbit/s

95th percentile per-packet one-way delay: 37.376 ms

Loss rate: 0.09%

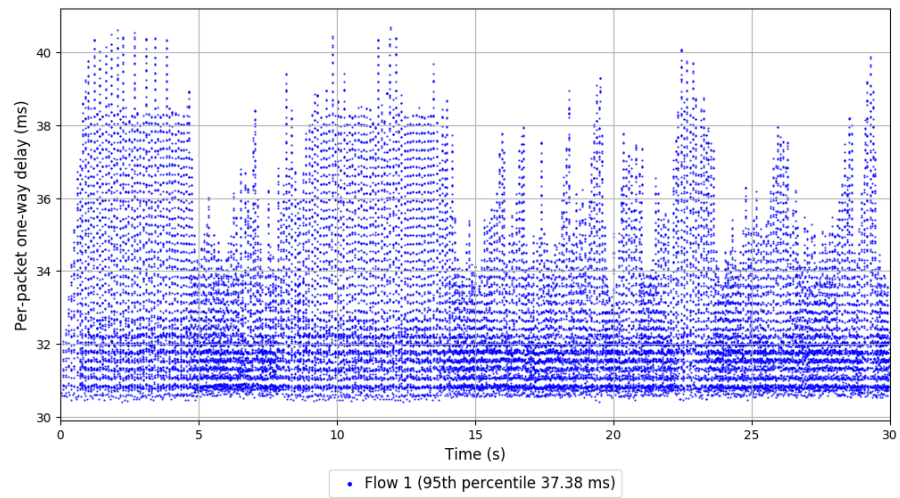
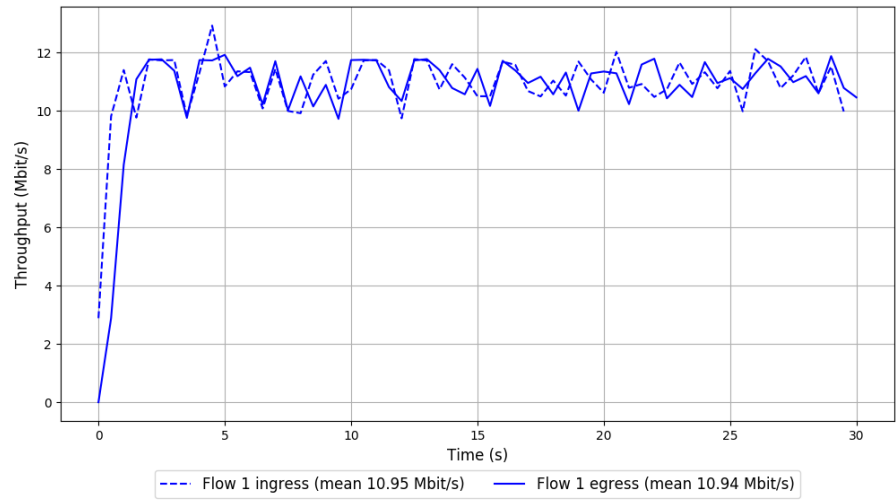
-- Flow 1:

Average throughput: 10.94 Mbit/s

95th percentile per-packet one-way delay: 37.376 ms

Loss rate: 0.09%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-08-27 21:48:45

End at: 2018-08-27 21:49:15

Local clock offset: 1.068 ms

Remote clock offset: 5.891 ms

Below is generated by plot.py at 2018-08-28 00:32:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.83 Mbit/s

95th percentile per-packet one-way delay: 36.722 ms

Loss rate: 0.00%

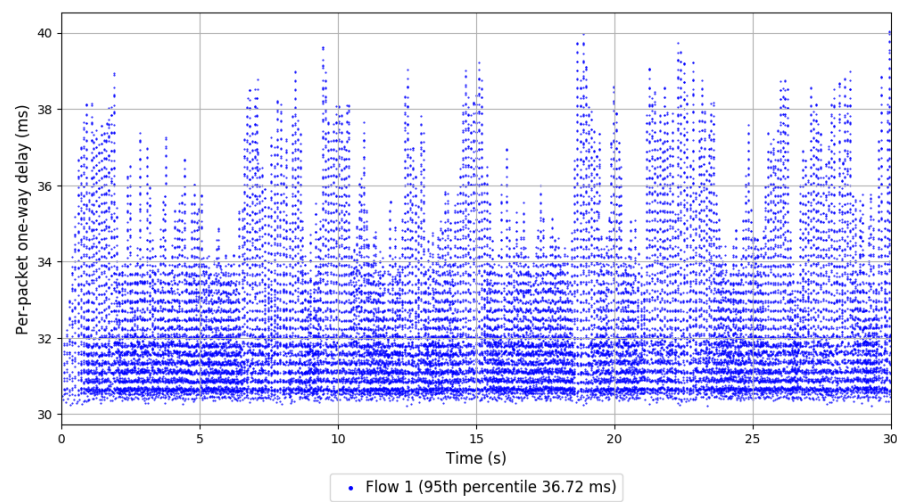
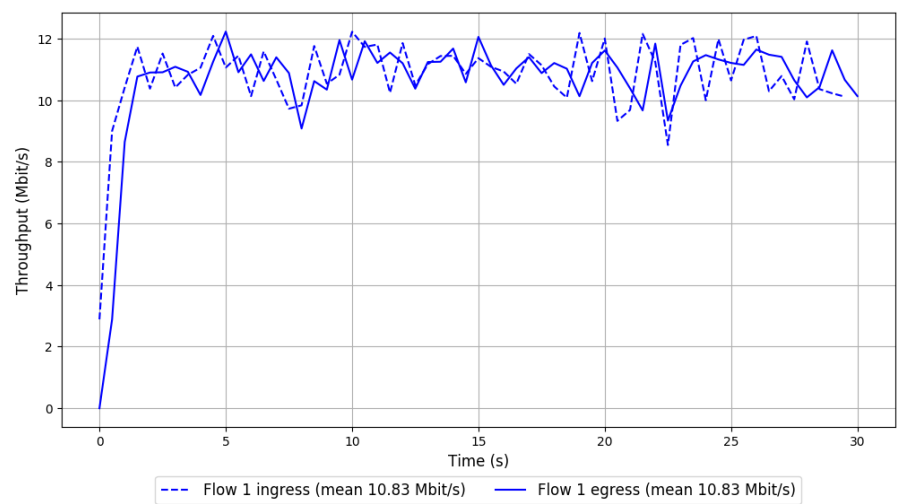
-- Flow 1:

Average throughput: 10.83 Mbit/s

95th percentile per-packet one-way delay: 36.722 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-08-27 22:10:44

End at: 2018-08-27 22:11:14

Local clock offset: 0.946 ms

Remote clock offset: 7.348 ms

Below is generated by plot.py at 2018-08-28 00:32:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.82 Mbit/s

95th percentile per-packet one-way delay: 36.765 ms

Loss rate: 0.08%

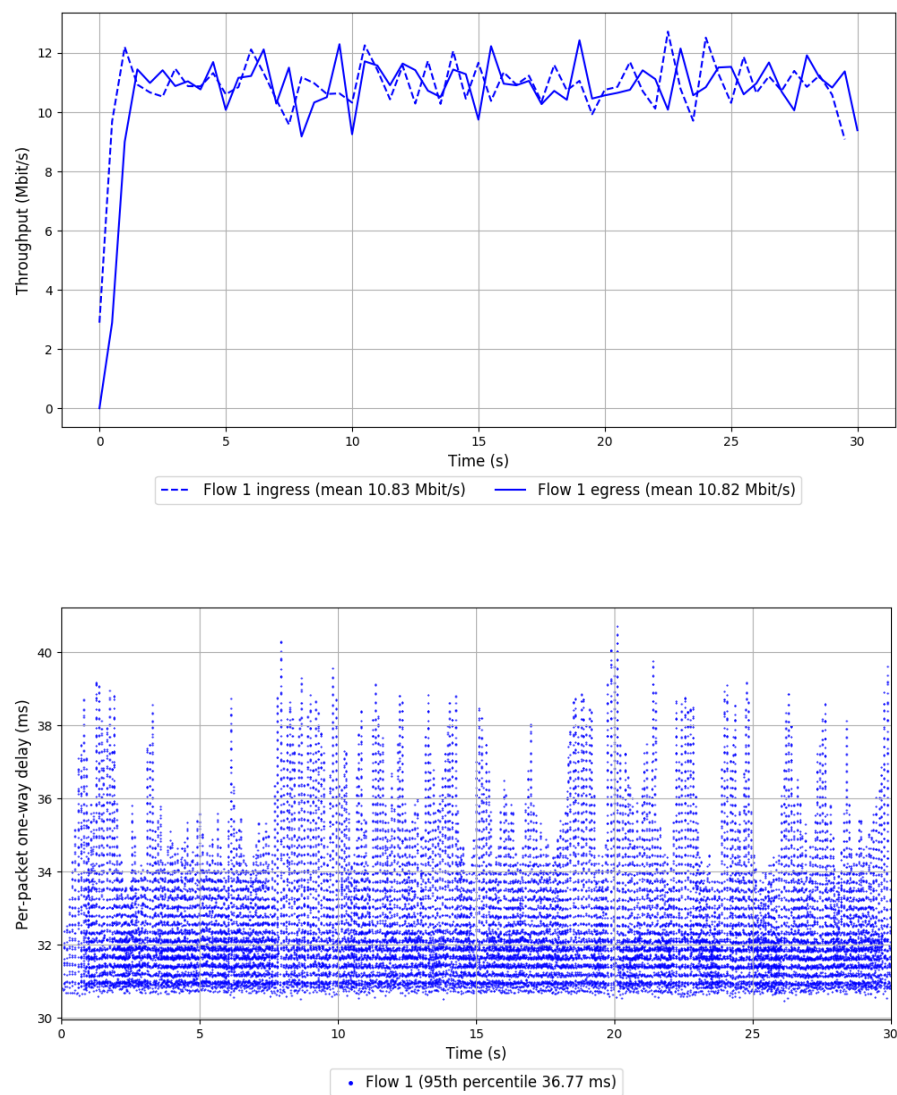
-- Flow 1:

Average throughput: 10.82 Mbit/s

95th percentile per-packet one-way delay: 36.765 ms

Loss rate: 0.08%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-08-27 22:32:41

End at: 2018-08-27 22:33:11

Local clock offset: 1.167 ms

Remote clock offset: 8.746 ms

Below is generated by plot.py at 2018-08-28 00:32:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.88 Mbit/s

95th percentile per-packet one-way delay: 36.607 ms

Loss rate: 0.00%

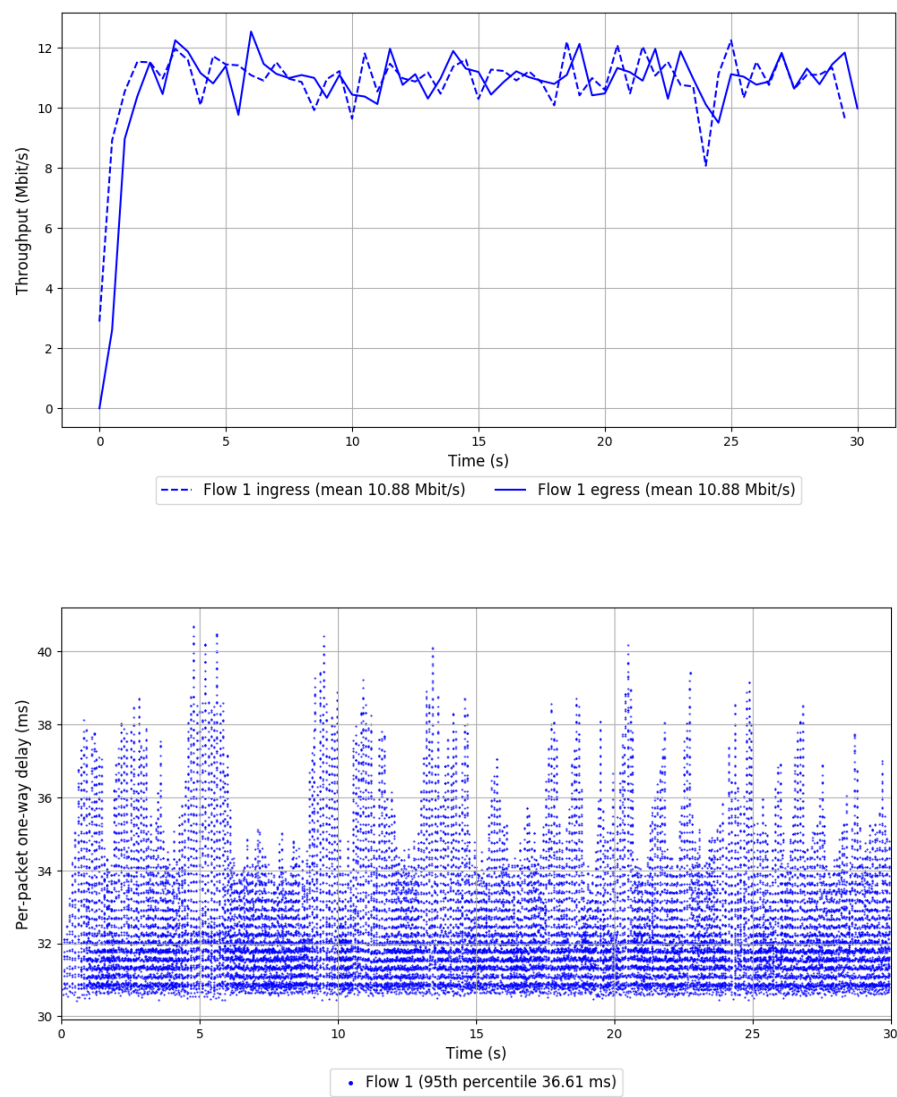
-- Flow 1:

Average throughput: 10.88 Mbit/s

95th percentile per-packet one-way delay: 36.607 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-08-27 22:54:40

End at: 2018-08-27 22:55:10

Local clock offset: 1.009 ms

Remote clock offset: 8.084 ms

Below is generated by plot.py at 2018-08-28 00:32:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.77 Mbit/s

95th percentile per-packet one-way delay: 36.781 ms

Loss rate: 0.00%

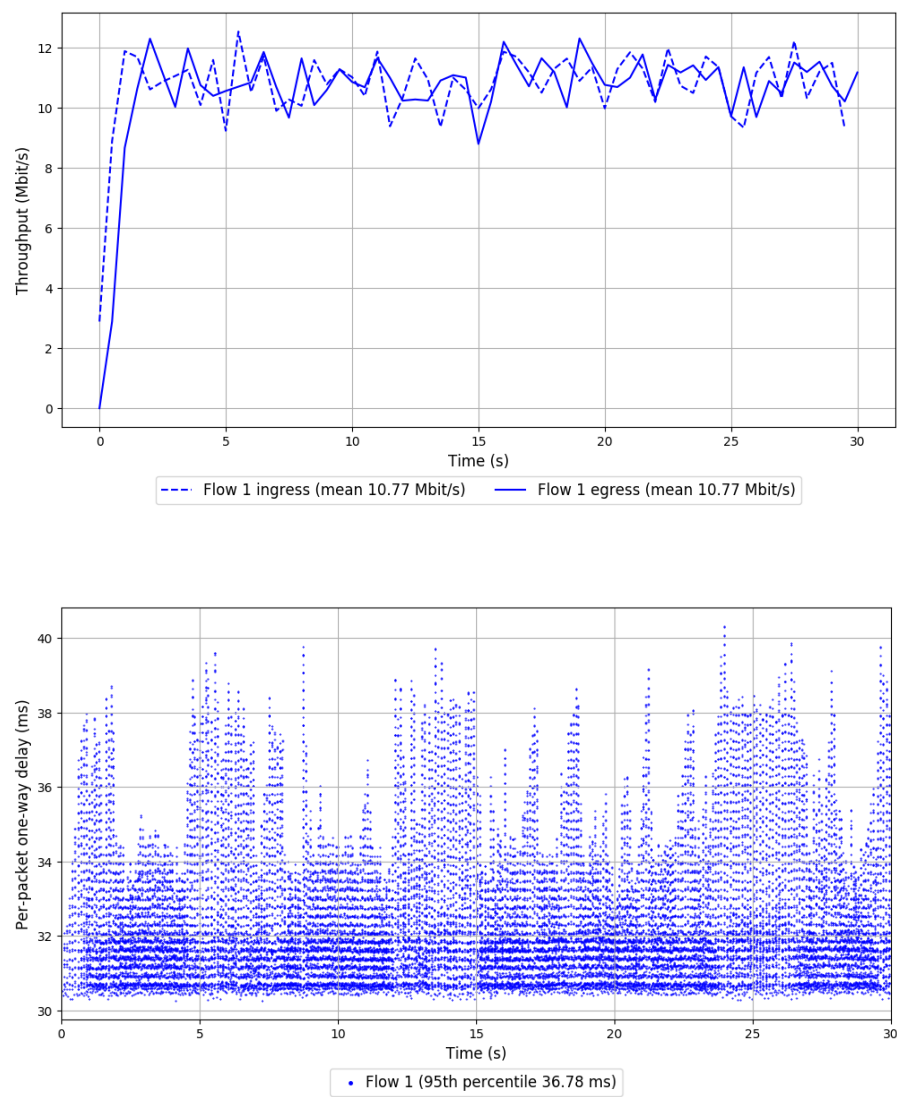
-- Flow 1:

Average throughput: 10.77 Mbit/s

95th percentile per-packet one-way delay: 36.781 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-08-27 23:16:41

End at: 2018-08-27 23:17:11

Local clock offset: 1.011 ms

Remote clock offset: 8.012 ms

Below is generated by plot.py at 2018-08-28 00:32:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.82 Mbit/s

95th percentile per-packet one-way delay: 36.065 ms

Loss rate: 0.00%

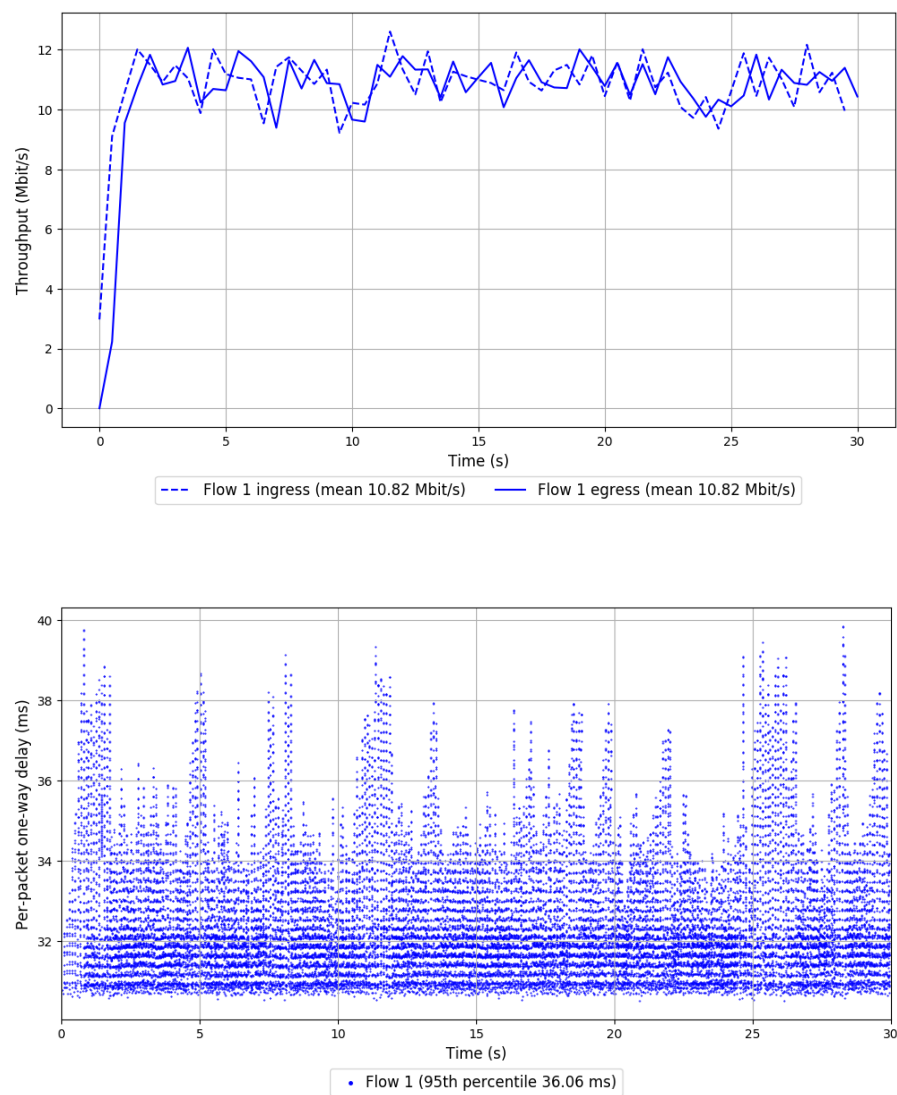
-- Flow 1:

Average throughput: 10.82 Mbit/s

95th percentile per-packet one-way delay: 36.065 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-08-27 23:38:36

End at: 2018-08-27 23:39:06

Local clock offset: 0.968 ms

Remote clock offset: 6.026 ms

Below is generated by plot.py at 2018-08-28 00:32:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.91 Mbit/s

95th percentile per-packet one-way delay: 36.401 ms

Loss rate: 0.00%

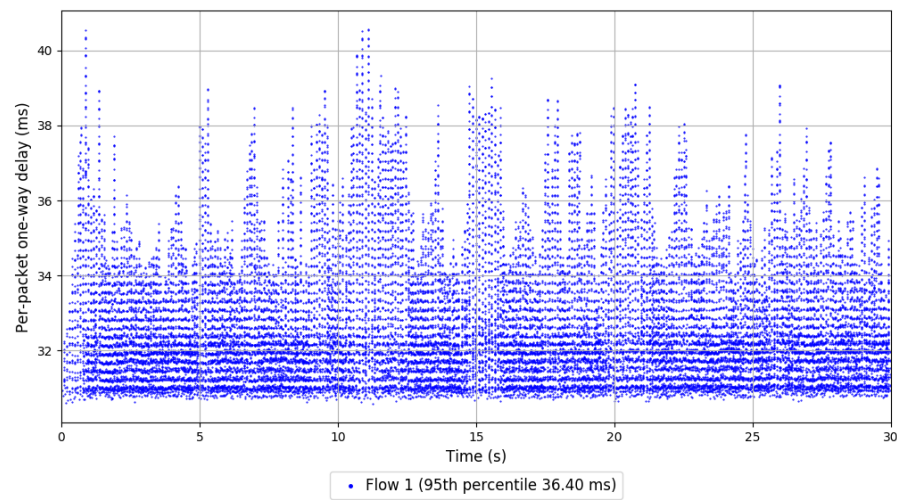
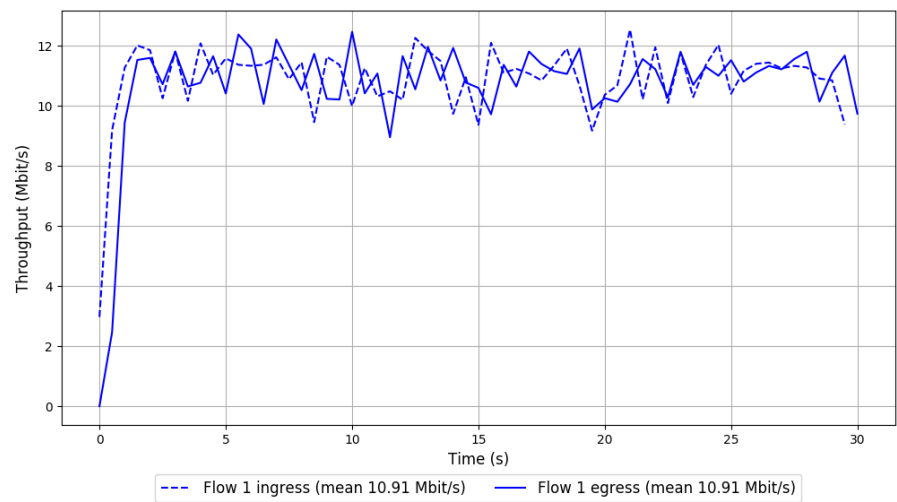
-- Flow 1:

Average throughput: 10.91 Mbit/s

95th percentile per-packet one-way delay: 36.401 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-08-28 00:00:32

End at: 2018-08-28 00:01:02

Local clock offset: 0.763 ms

Remote clock offset: 3.86 ms

Below is generated by plot.py at 2018-08-28 00:32:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.02 Mbit/s

95th percentile per-packet one-way delay: 37.103 ms

Loss rate: 0.00%

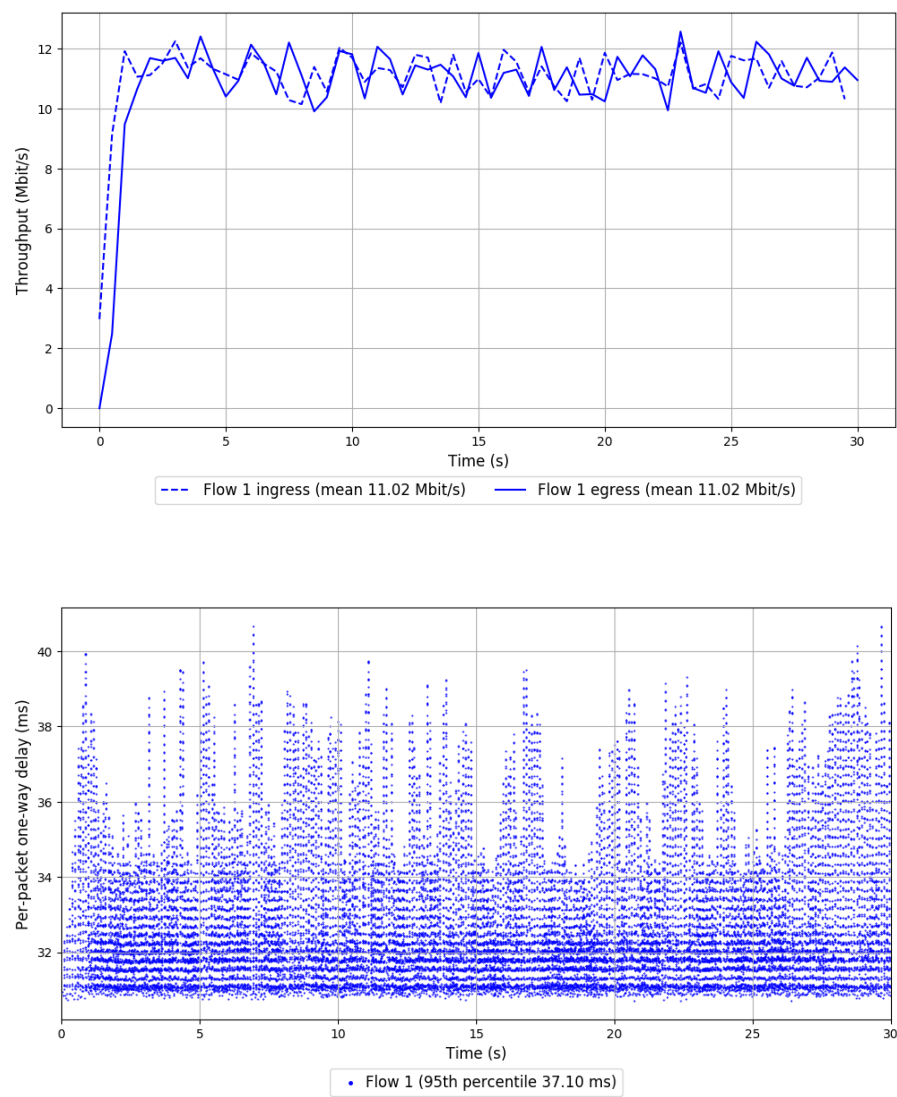
-- Flow 1:

Average throughput: 11.02 Mbit/s

95th percentile per-packet one-way delay: 37.103 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

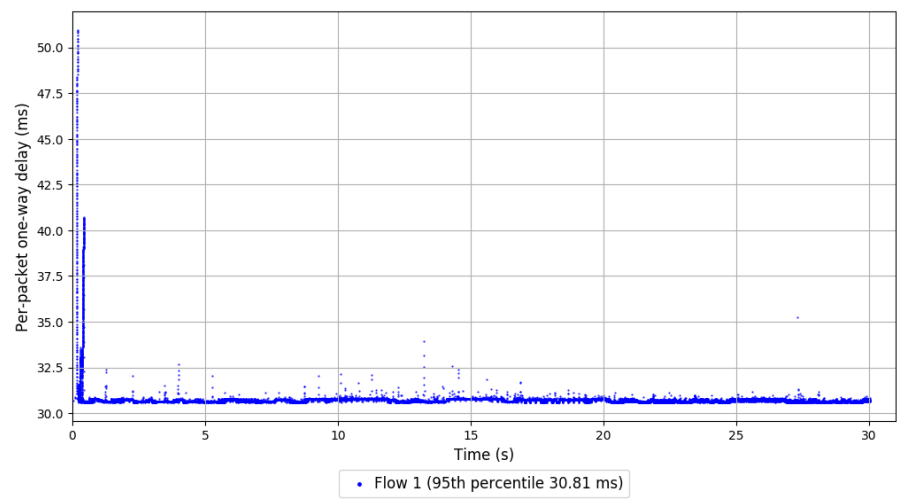
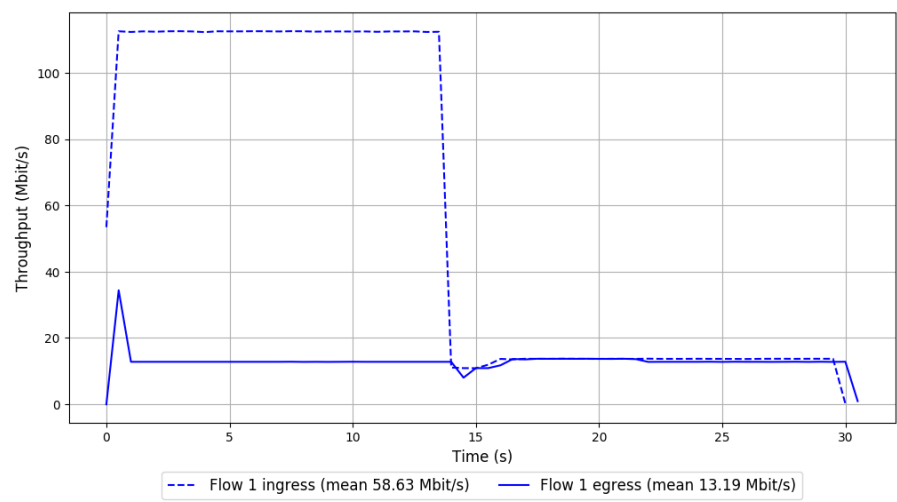


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-08-27 20:43:55
End at: 2018-08-27 20:44:25
Local clock offset: 1.404 ms
Remote clock offset: 3.825 ms

# Below is generated by plot.py at 2018-08-28 00:32:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.19 Mbit/s
95th percentile per-packet one-way delay: 30.809 ms
Loss rate: 77.51%
-- Flow 1:
Average throughput: 13.19 Mbit/s
95th percentile per-packet one-way delay: 30.809 ms
Loss rate: 77.51%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-08-27 21:05:58

End at: 2018-08-27 21:06:28

Local clock offset: 1.467 ms

Remote clock offset: 4.76 ms

Below is generated by plot.py at 2018-08-28 00:32:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.69 Mbit/s

95th percentile per-packet one-way delay: 30.750 ms

Loss rate: 78.07%

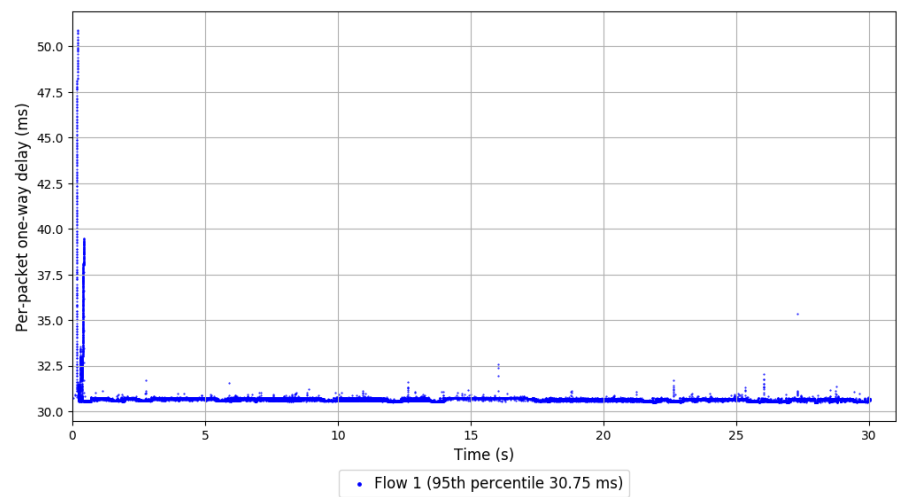
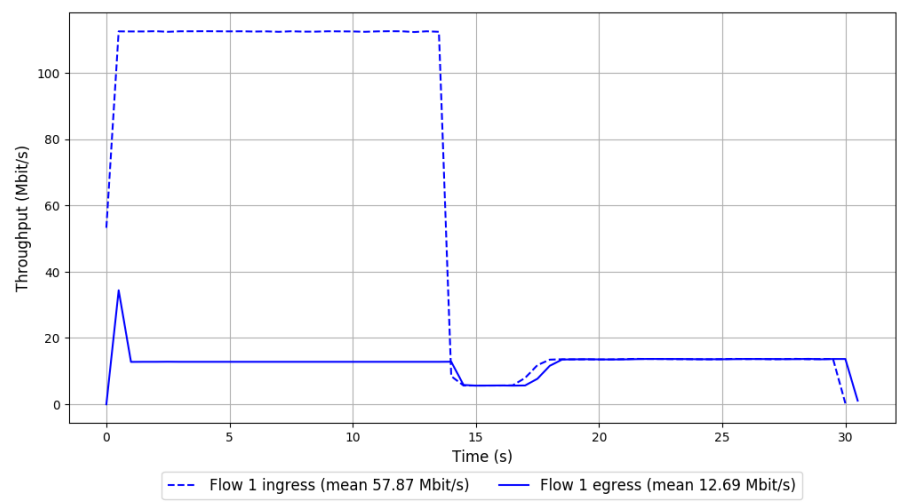
-- Flow 1:

Average throughput: 12.69 Mbit/s

95th percentile per-packet one-way delay: 30.750 ms

Loss rate: 78.07%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-08-27 21:28:03

End at: 2018-08-27 21:28:33

Local clock offset: 1.404 ms

Remote clock offset: 5.506 ms

Below is generated by plot.py at 2018-08-28 00:32:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.19 Mbit/s

95th percentile per-packet one-way delay: 30.859 ms

Loss rate: 63.21%

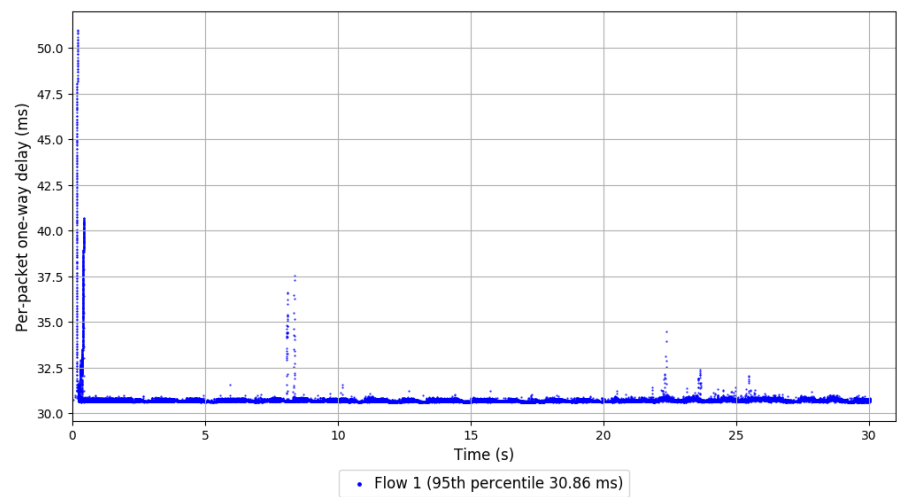
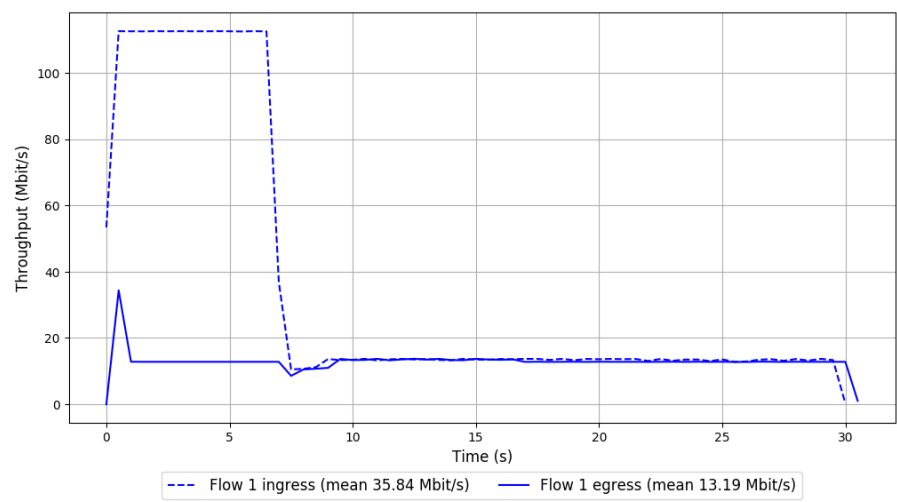
-- Flow 1:

Average throughput: 13.19 Mbit/s

95th percentile per-packet one-way delay: 30.859 ms

Loss rate: 63.21%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-08-27 21:50:01

End at: 2018-08-27 21:50:31

Local clock offset: 1.055 ms

Remote clock offset: 6.088 ms

Below is generated by plot.py at 2018-08-28 00:32:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.78 Mbit/s

95th percentile per-packet one-way delay: 30.863 ms

Loss rate: 77.95%

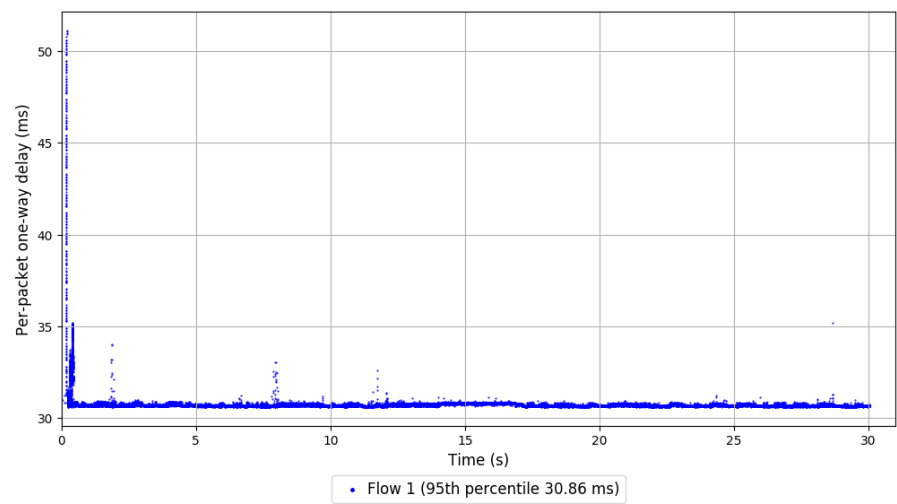
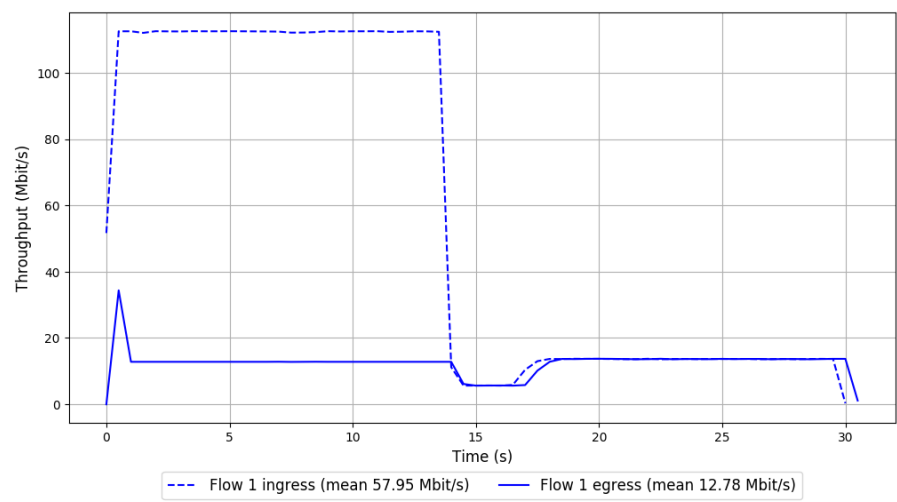
-- Flow 1:

Average throughput: 12.78 Mbit/s

95th percentile per-packet one-way delay: 30.863 ms

Loss rate: 77.95%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-08-27 22:11:59

End at: 2018-08-27 22:12:29

Local clock offset: 1.03 ms

Remote clock offset: 7.489 ms

Below is generated by plot.py at 2018-08-28 00:32:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.85 Mbit/s

95th percentile per-packet one-way delay: 30.887 ms

Loss rate: 78.07%

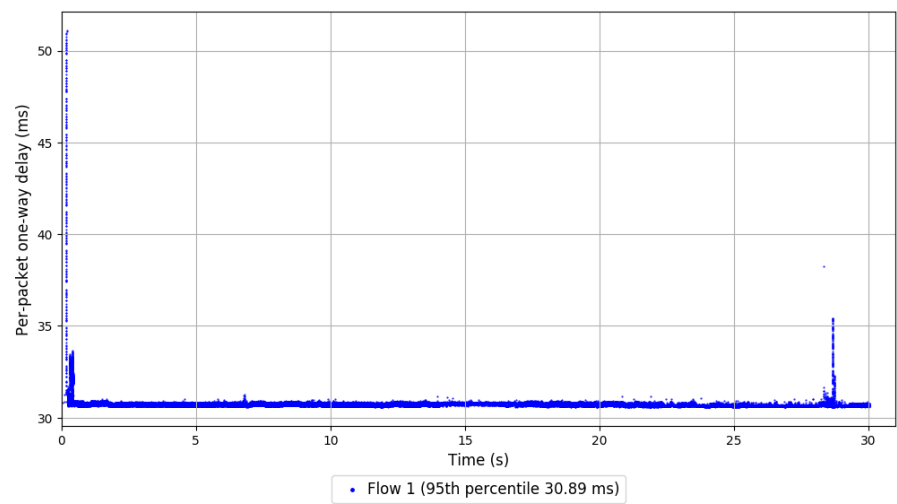
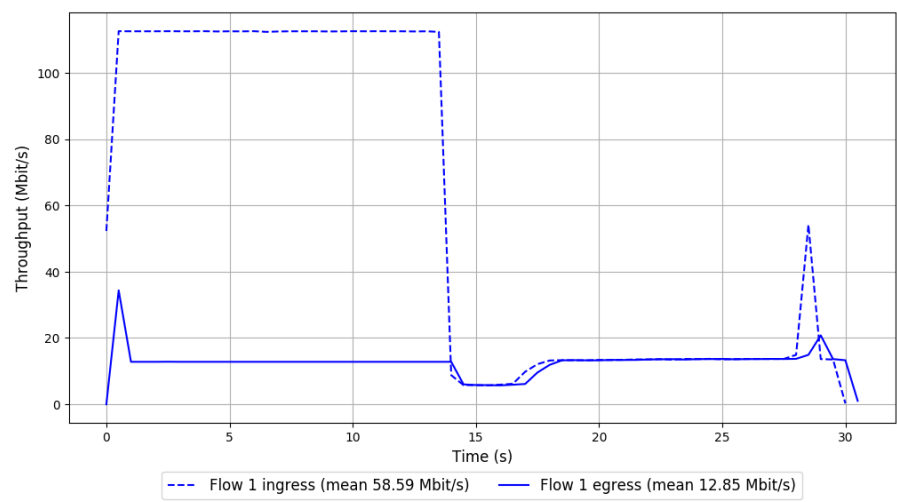
-- Flow 1:

Average throughput: 12.85 Mbit/s

95th percentile per-packet one-way delay: 30.887 ms

Loss rate: 78.07%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-08-27 22:33:57

End at: 2018-08-27 22:34:27

Local clock offset: 1.134 ms

Remote clock offset: 8.785 ms

Below is generated by plot.py at 2018-08-28 00:32:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.09 Mbit/s

95th percentile per-packet one-way delay: 30.879 ms

Loss rate: 77.53%

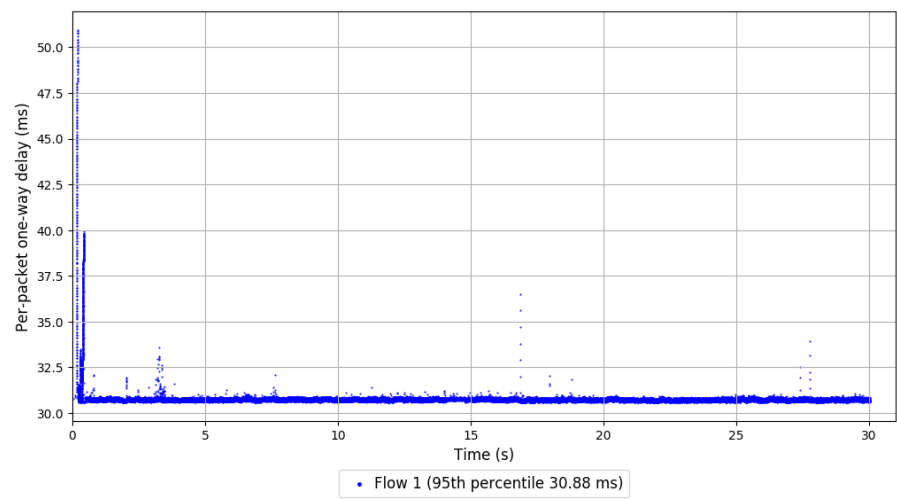
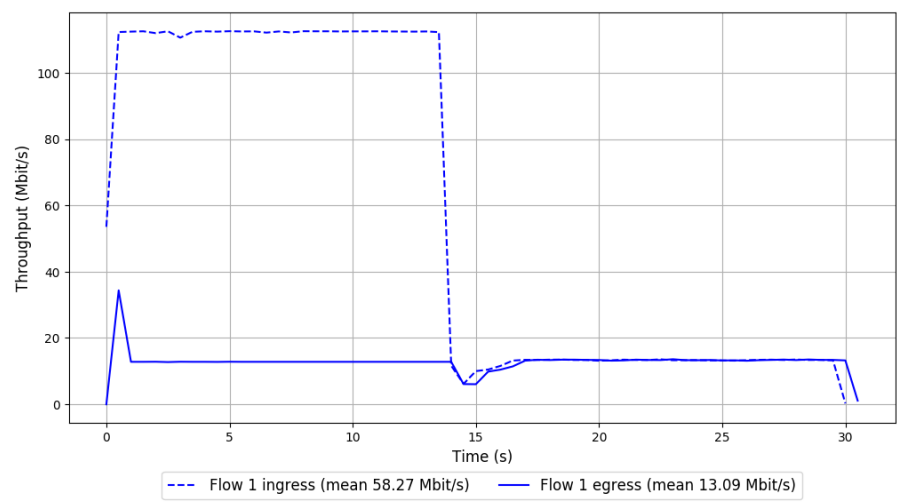
-- Flow 1:

Average throughput: 13.09 Mbit/s

95th percentile per-packet one-way delay: 30.879 ms

Loss rate: 77.53%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-08-27 22:55:56

End at: 2018-08-27 22:56:26

Local clock offset: 1.027 ms

Remote clock offset: 8.21 ms

Below is generated by plot.py at 2018-08-28 00:32:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.19 Mbit/s

95th percentile per-packet one-way delay: 30.837 ms

Loss rate: 60.49%

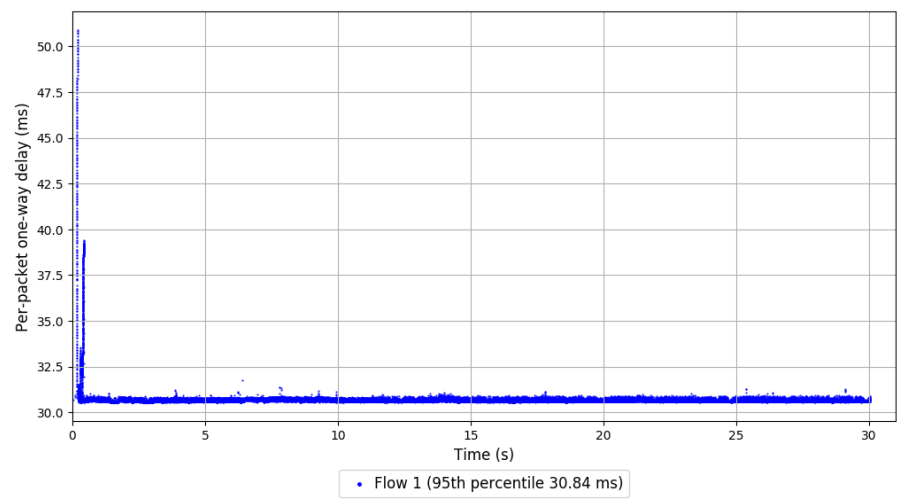
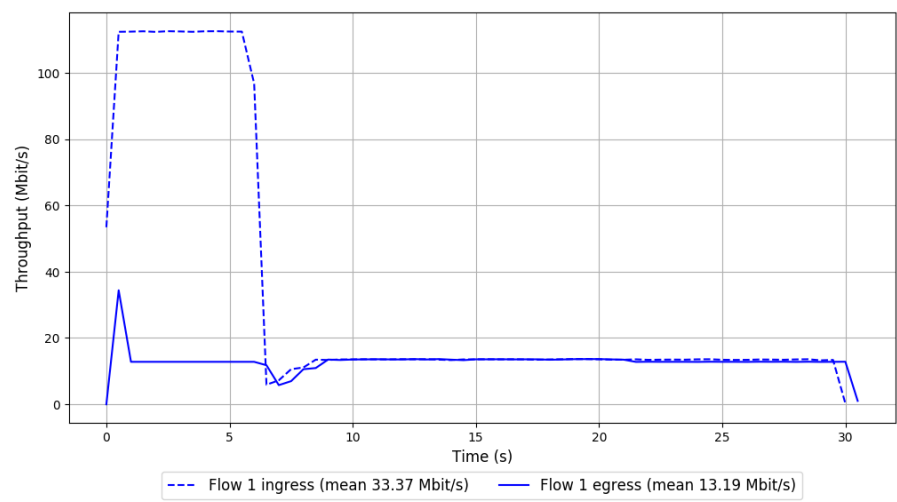
-- Flow 1:

Average throughput: 13.19 Mbit/s

95th percentile per-packet one-way delay: 30.837 ms

Loss rate: 60.49%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-08-27 23:17:56

End at: 2018-08-27 23:18:26

Local clock offset: 1.024 ms

Remote clock offset: 7.989 ms

Below is generated by plot.py at 2018-08-28 00:32:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.02 Mbit/s

95th percentile per-packet one-way delay: 30.887 ms

Loss rate: 77.63%

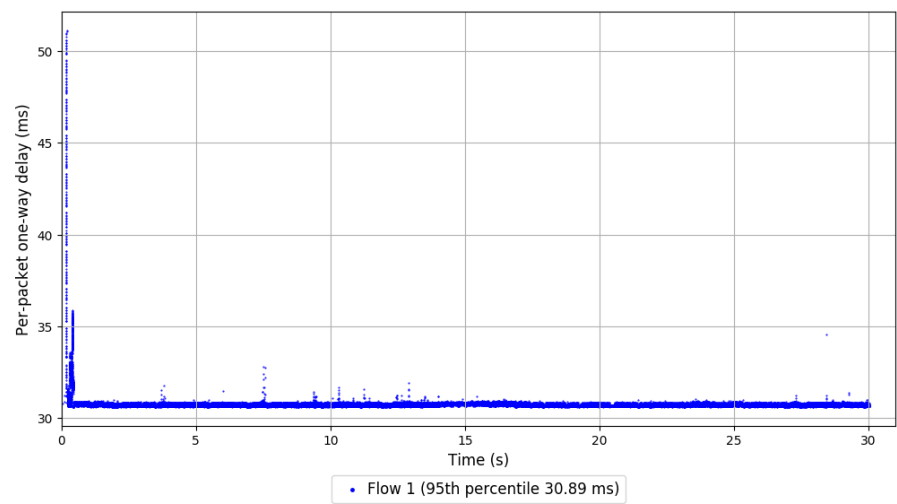
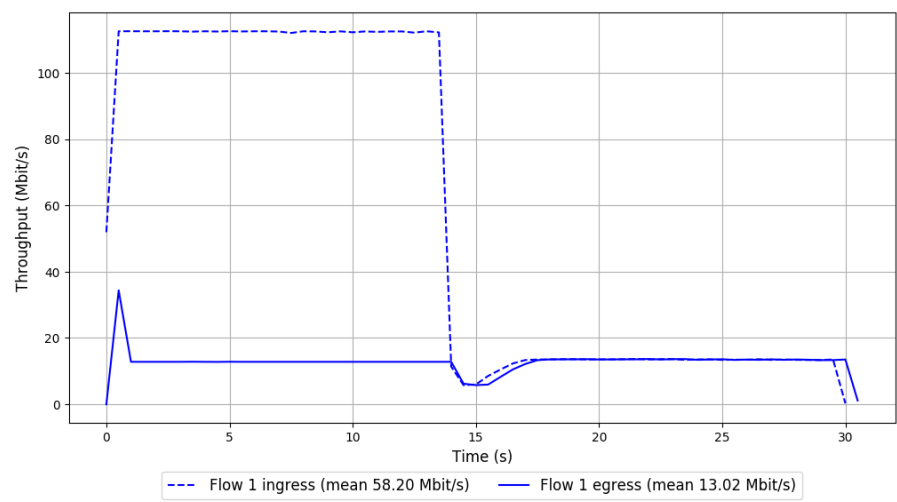
-- Flow 1:

Average throughput: 13.02 Mbit/s

95th percentile per-packet one-way delay: 30.887 ms

Loss rate: 77.63%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-08-27 23:39:52

End at: 2018-08-27 23:40:22

Local clock offset: 0.948 ms

Remote clock offset: 5.781 ms

Below is generated by plot.py at 2018-08-28 00:32:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.19 Mbit/s

95th percentile per-packet one-way delay: 30.935 ms

Loss rate: 77.42%

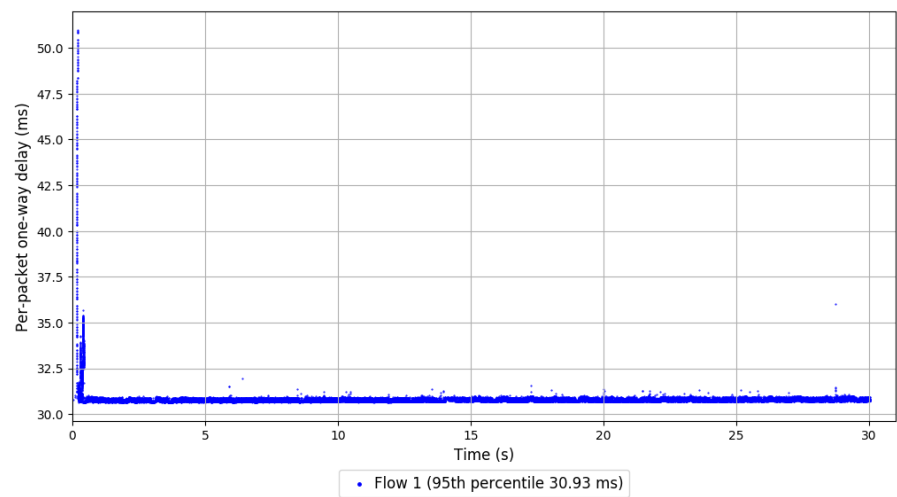
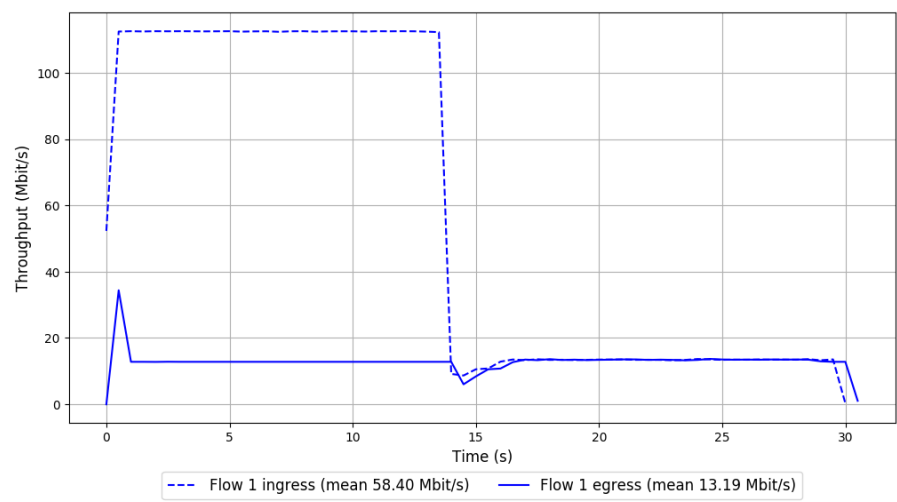
-- Flow 1:

Average throughput: 13.19 Mbit/s

95th percentile per-packet one-way delay: 30.935 ms

Loss rate: 77.42%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-08-28 00:01:48

End at: 2018-08-28 00:02:18

Local clock offset: 0.83 ms

Remote clock offset: 3.711 ms

Below is generated by plot.py at 2018-08-28 00:32:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.19 Mbit/s

95th percentile per-packet one-way delay: 30.847 ms

Loss rate: 63.15%

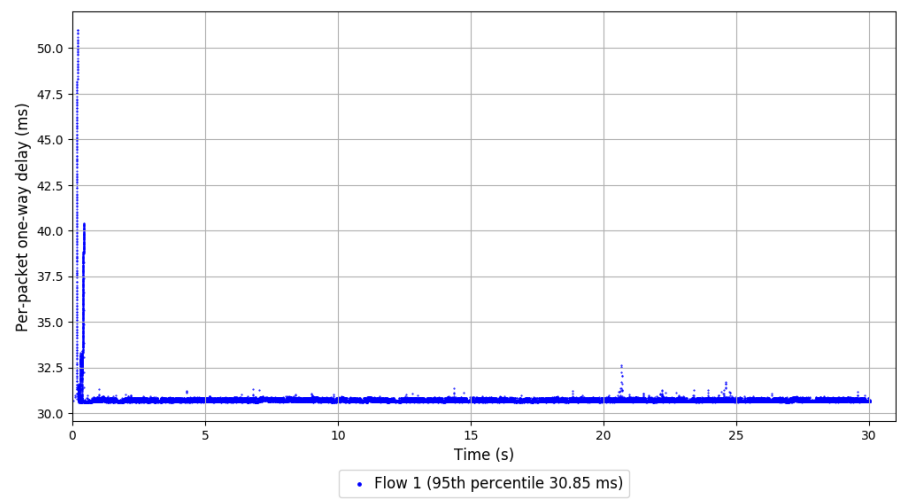
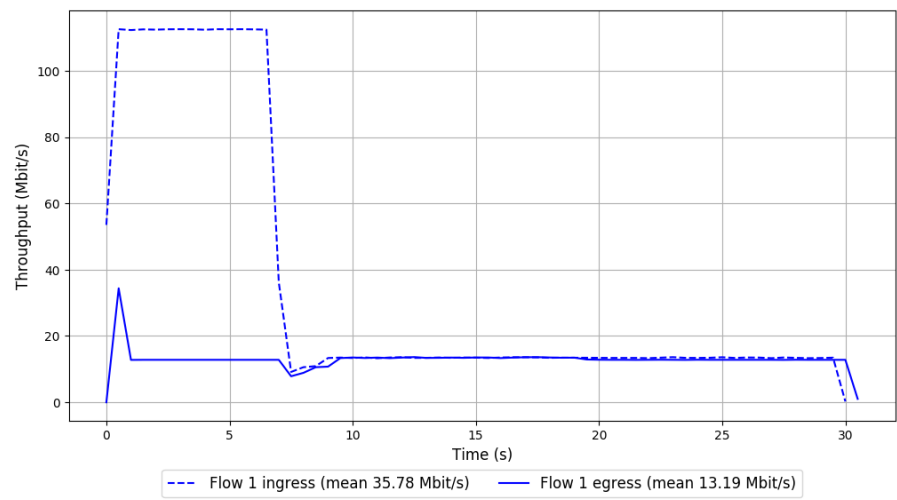
-- Flow 1:

Average throughput: 13.19 Mbit/s

95th percentile per-packet one-way delay: 30.847 ms

Loss rate: 63.15%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-08-27 20:53:03

End at: 2018-08-27 20:53:33

Local clock offset: 1.373 ms

Remote clock offset: 4.128 ms

Below is generated by plot.py at 2018-08-28 00:32:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.49 Mbit/s

95th percentile per-packet one-way delay: 42.682 ms

Loss rate: 0.47%

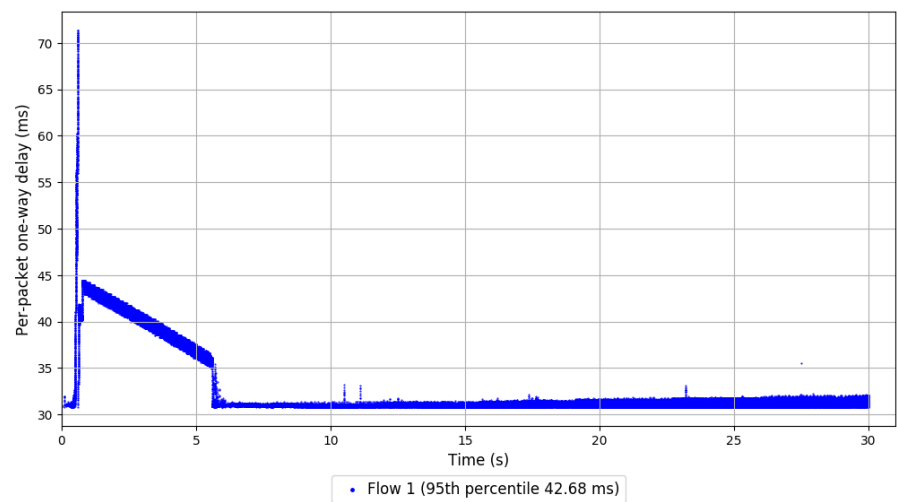
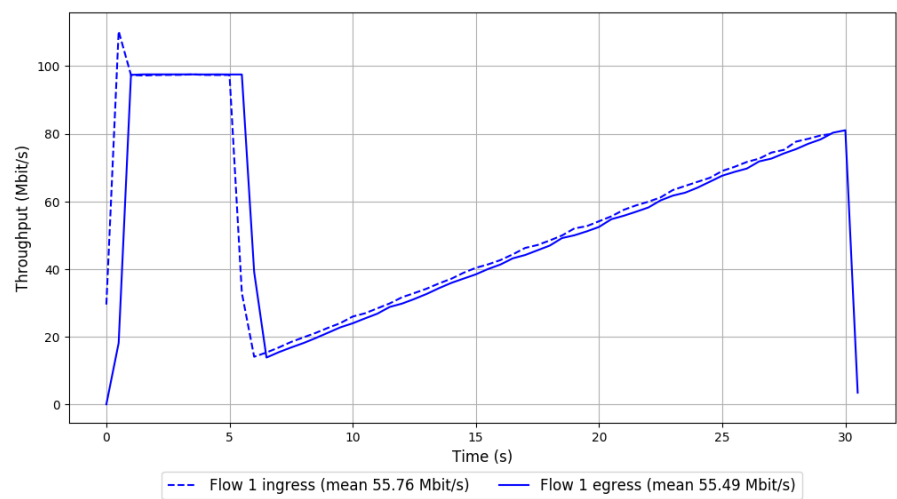
-- Flow 1:

Average throughput: 55.49 Mbit/s

95th percentile per-packet one-way delay: 42.682 ms

Loss rate: 0.47%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-08-27 21:15:03

End at: 2018-08-27 21:15:33

Local clock offset: 1.285 ms

Remote clock offset: 4.612 ms

Below is generated by plot.py at 2018-08-28 00:33:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.43 Mbit/s

95th percentile per-packet one-way delay: 31.936 ms

Loss rate: 0.62%

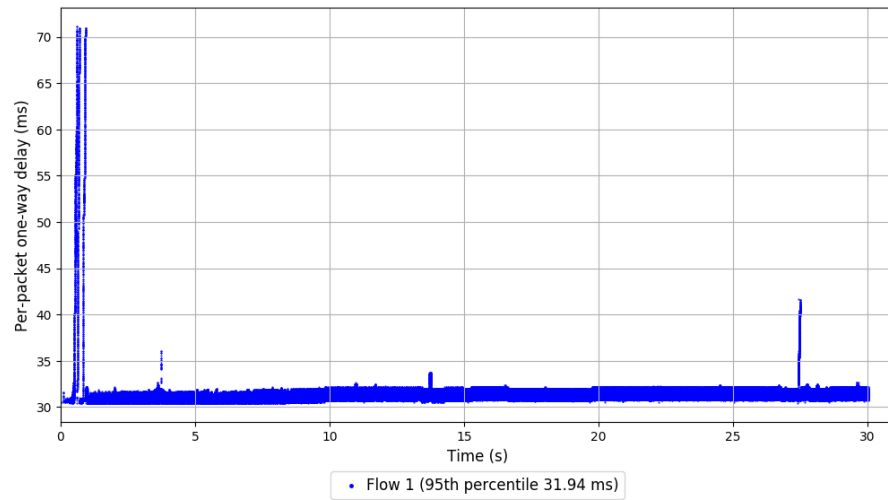
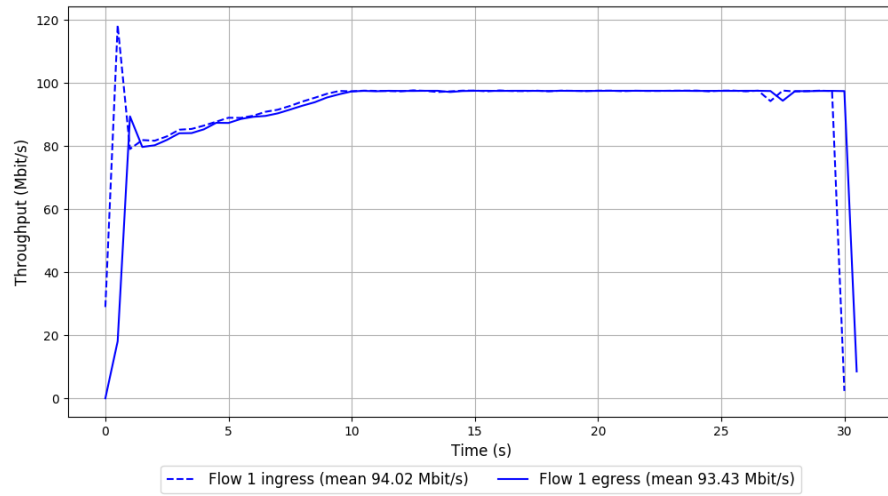
-- Flow 1:

Average throughput: 93.43 Mbit/s

95th percentile per-packet one-way delay: 31.936 ms

Loss rate: 0.62%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-08-27 21:37:09

End at: 2018-08-27 21:37:39

Local clock offset: 1.165 ms

Remote clock offset: 6.111 ms

Below is generated by plot.py at 2018-08-28 00:33:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.55 Mbit/s

95th percentile per-packet one-way delay: 42.063 ms

Loss rate: 0.38%

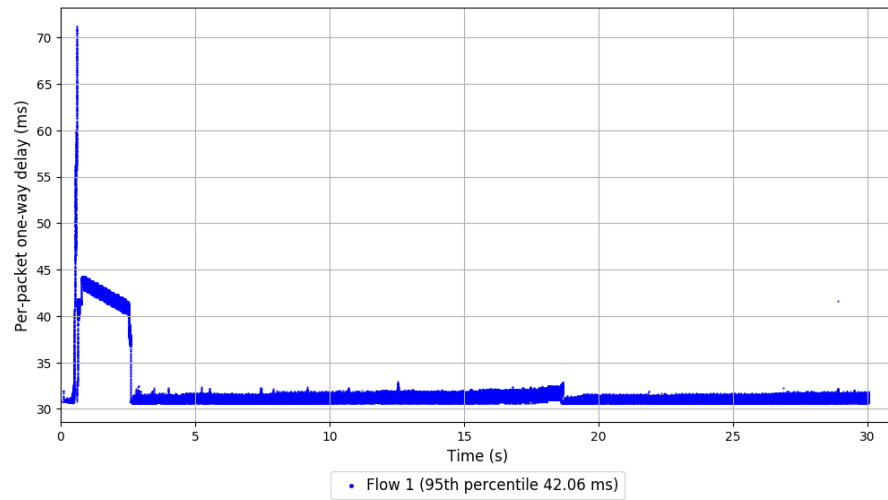
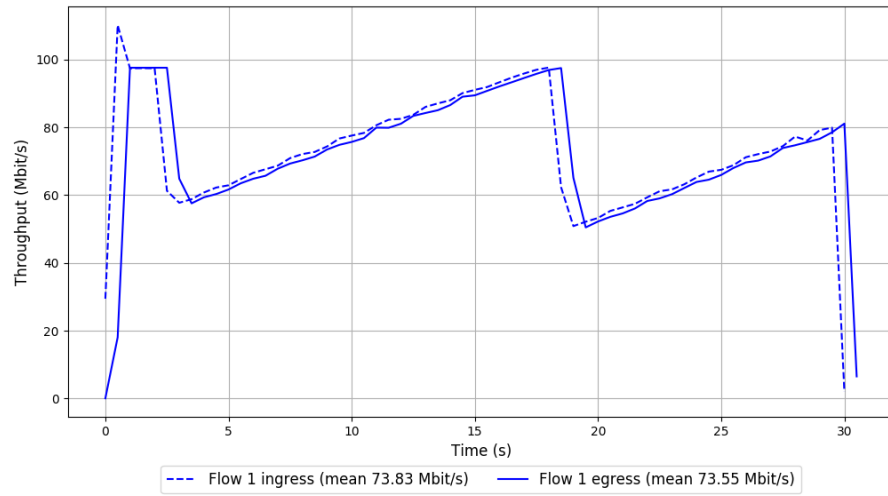
-- Flow 1:

Average throughput: 73.55 Mbit/s

95th percentile per-packet one-way delay: 42.063 ms

Loss rate: 0.38%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-08-27 21:59:05

End at: 2018-08-27 21:59:35

Local clock offset: 1.031 ms

Remote clock offset: 6.419 ms

Below is generated by plot.py at 2018-08-28 00:33:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.20 Mbit/s

95th percentile per-packet one-way delay: 41.202 ms

Loss rate: 0.27%

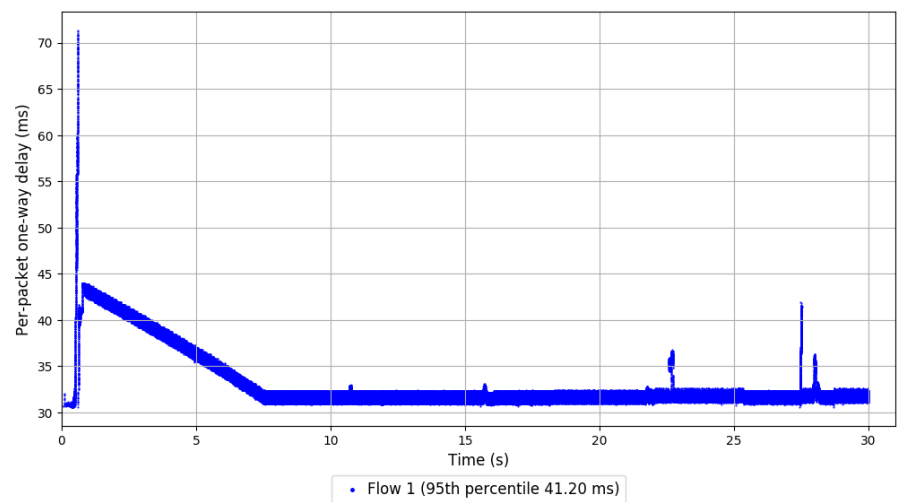
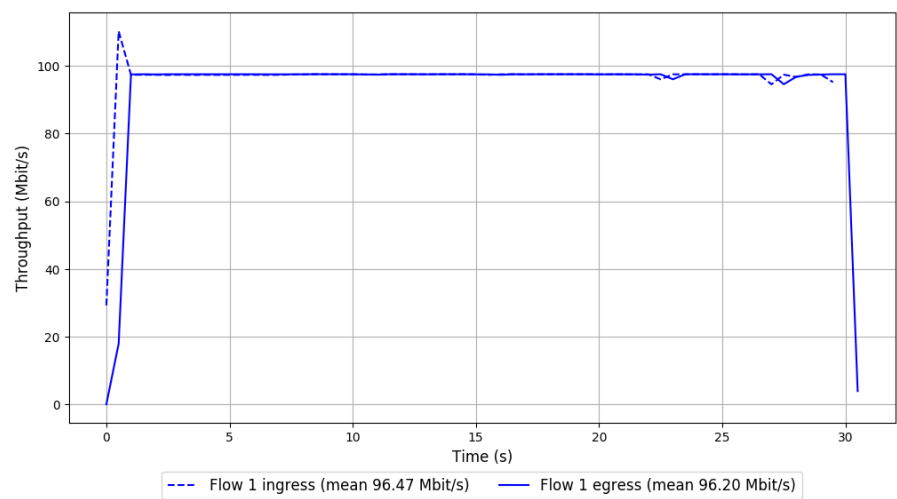
-- Flow 1:

Average throughput: 96.20 Mbit/s

95th percentile per-packet one-way delay: 41.202 ms

Loss rate: 0.27%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-08-27 22:21:04

End at: 2018-08-27 22:21:34

Local clock offset: 0.98 ms

Remote clock offset: 8.313 ms

Below is generated by plot.py at 2018-08-28 00:33:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.96 Mbit/s

95th percentile per-packet one-way delay: 41.525 ms

Loss rate: 0.28%

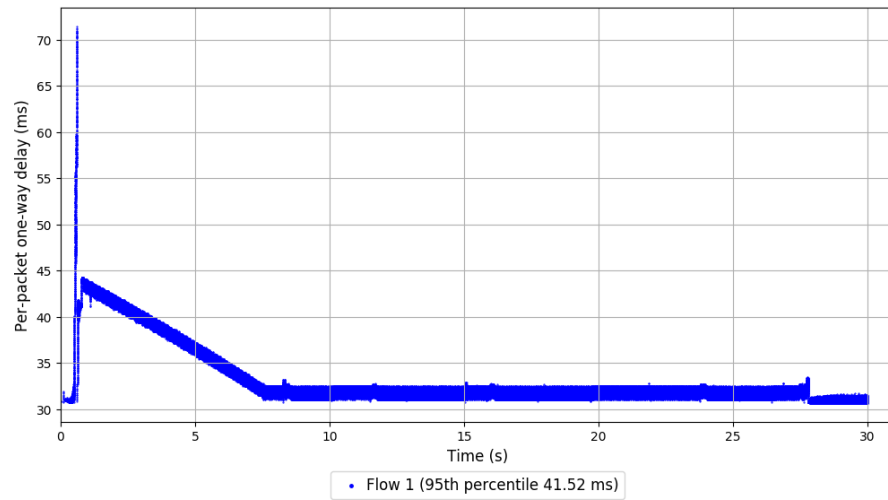
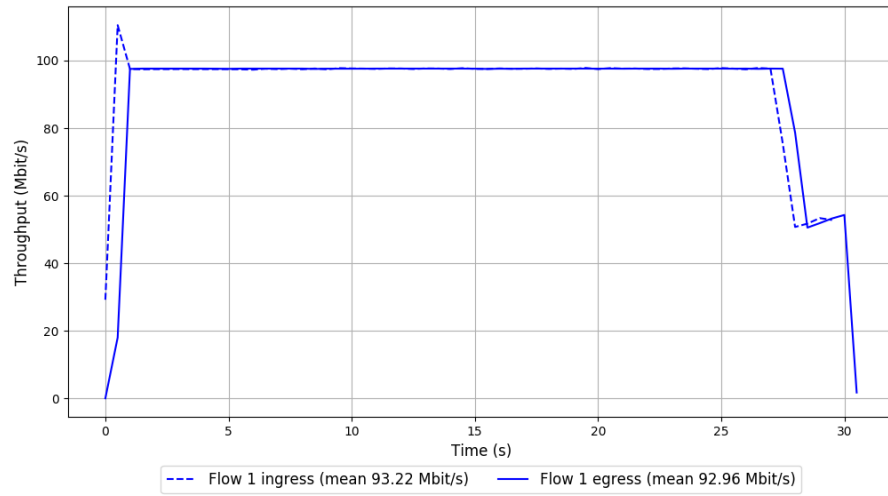
-- Flow 1:

Average throughput: 92.96 Mbit/s

95th percentile per-packet one-way delay: 41.525 ms

Loss rate: 0.28%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-08-27 22:43:01

End at: 2018-08-27 22:43:31

Local clock offset: 0.894 ms

Remote clock offset: 8.734 ms

Below is generated by plot.py at 2018-08-28 00:33:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.96 Mbit/s

95th percentile per-packet one-way delay: 31.870 ms

Loss rate: 0.39%

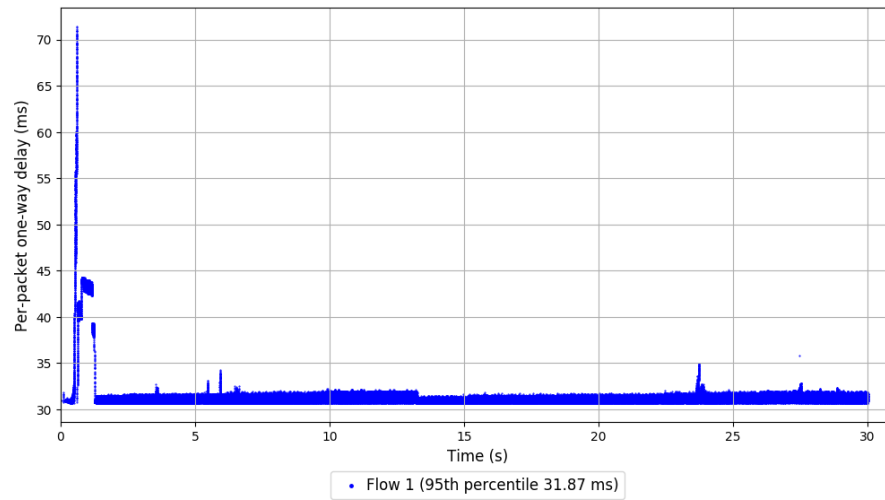
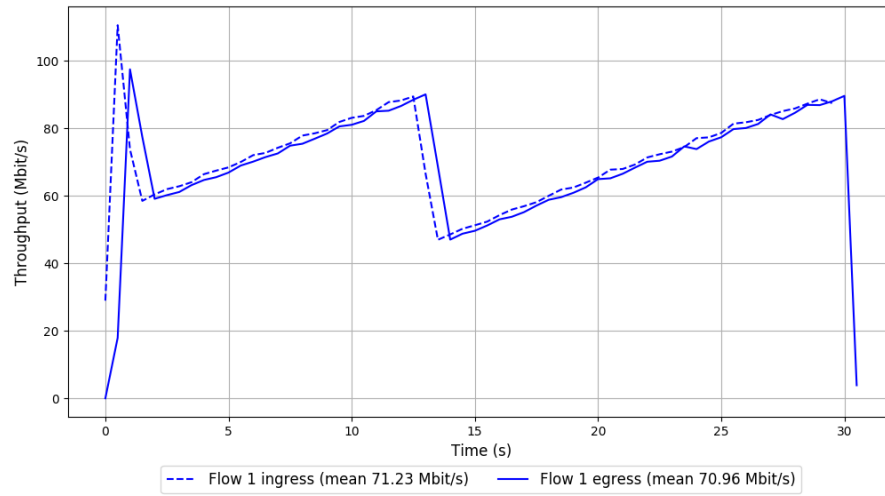
-- Flow 1:

Average throughput: 70.96 Mbit/s

95th percentile per-packet one-way delay: 31.870 ms

Loss rate: 0.39%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-08-27 23:05:02

End at: 2018-08-27 23:05:32

Local clock offset: 1.036 ms

Remote clock offset: 8.107 ms

Below is generated by plot.py at 2018-08-28 00:33:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.73 Mbit/s

95th percentile per-packet one-way delay: 41.519 ms

Loss rate: 0.32%

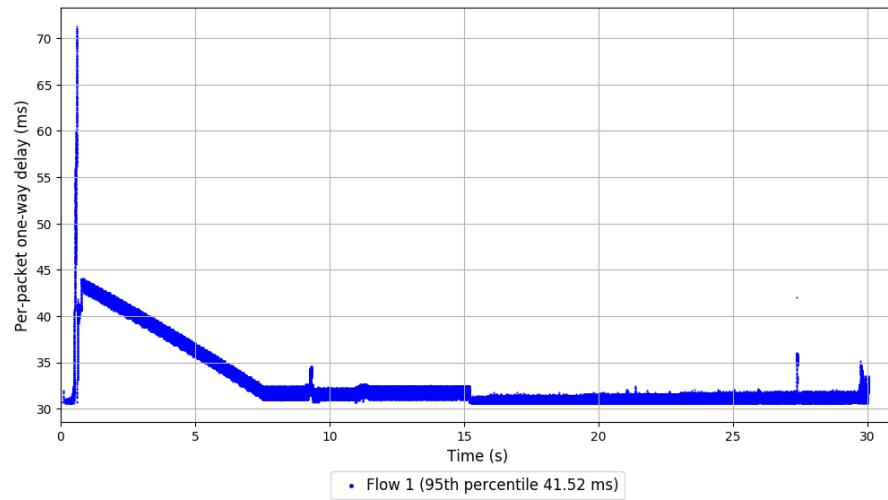
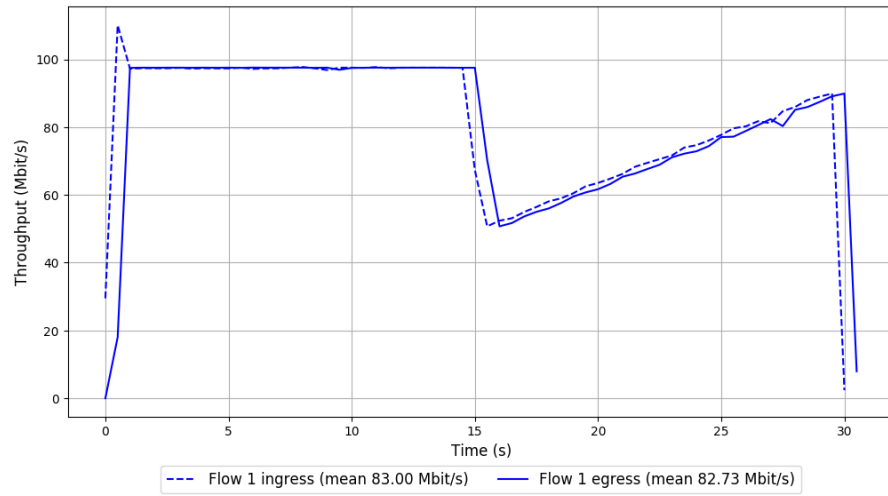
-- Flow 1:

Average throughput: 82.73 Mbit/s

95th percentile per-packet one-way delay: 41.519 ms

Loss rate: 0.32%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-08-27 23:26:59

End at: 2018-08-27 23:27:29

Local clock offset: 1.052 ms

Remote clock offset: 7.135 ms

Below is generated by plot.py at 2018-08-28 00:33:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 41.681 ms

Loss rate: 0.27%

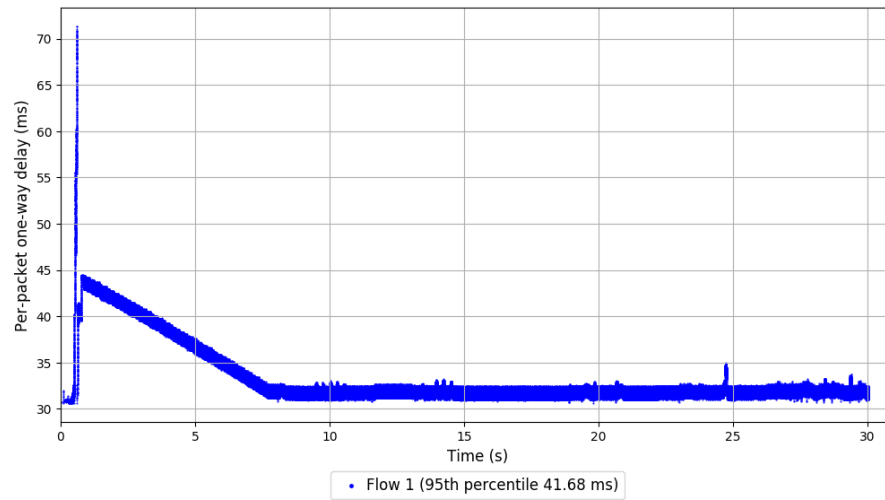
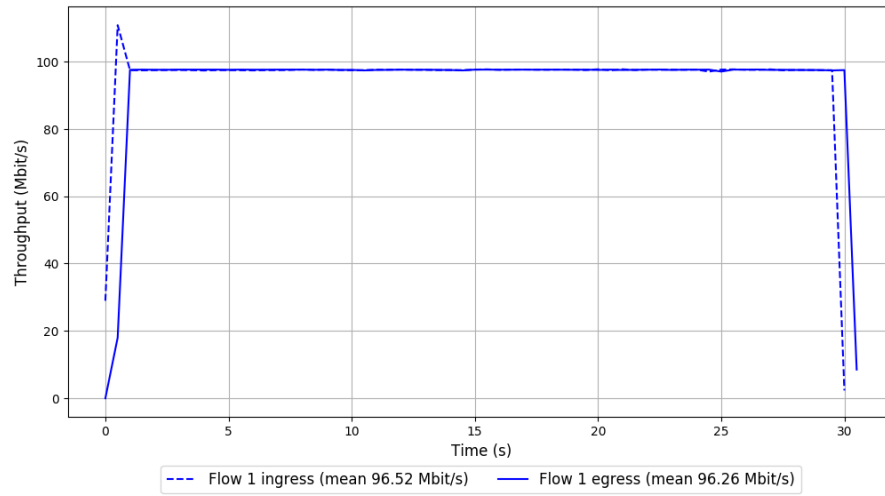
-- Flow 1:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 41.681 ms

Loss rate: 0.27%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-08-27 23:48:56

End at: 2018-08-27 23:49:26

Local clock offset: 0.788 ms

Remote clock offset: 4.58 ms

Below is generated by plot.py at 2018-08-28 00:33:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.17 Mbit/s

95th percentile per-packet one-way delay: 41.731 ms

Loss rate: 0.31%

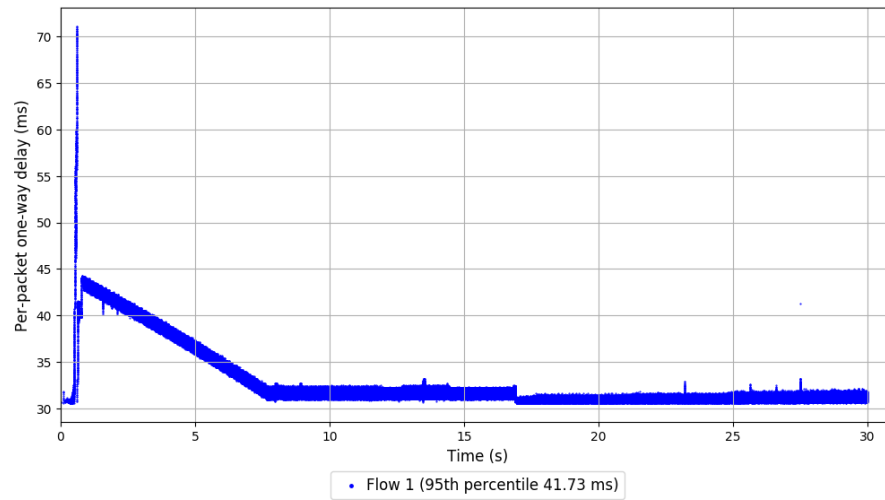
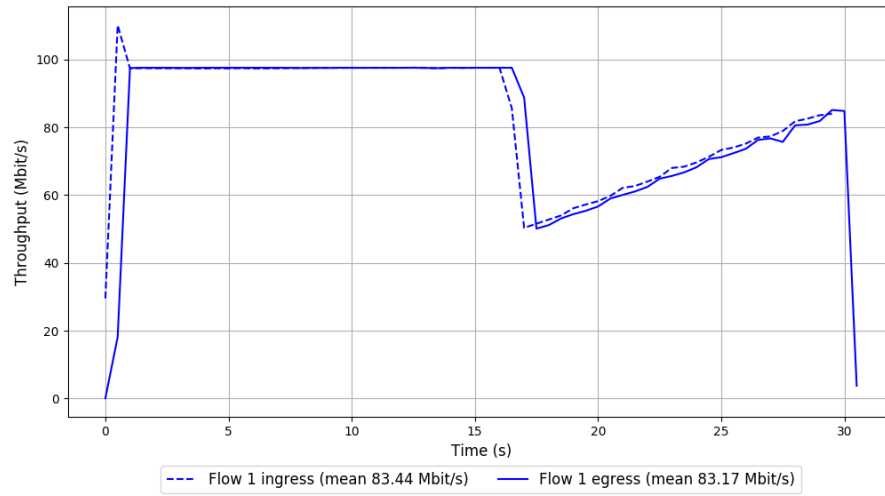
-- Flow 1:

Average throughput: 83.17 Mbit/s

95th percentile per-packet one-way delay: 41.731 ms

Loss rate: 0.31%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-08-28 00:10:49

End at: 2018-08-28 00:11:19

Local clock offset: 0.611 ms

Remote clock offset: 3.243 ms

Below is generated by plot.py at 2018-08-28 00:34:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 41.298 ms

Loss rate: 0.27%

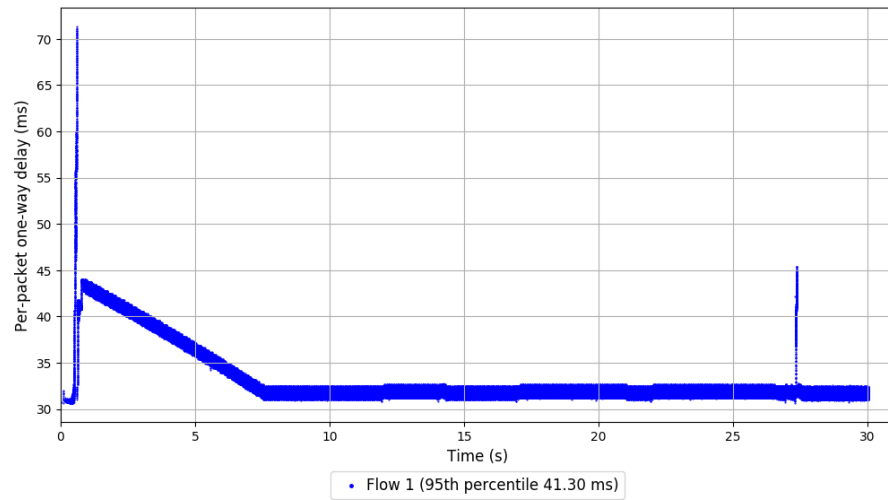
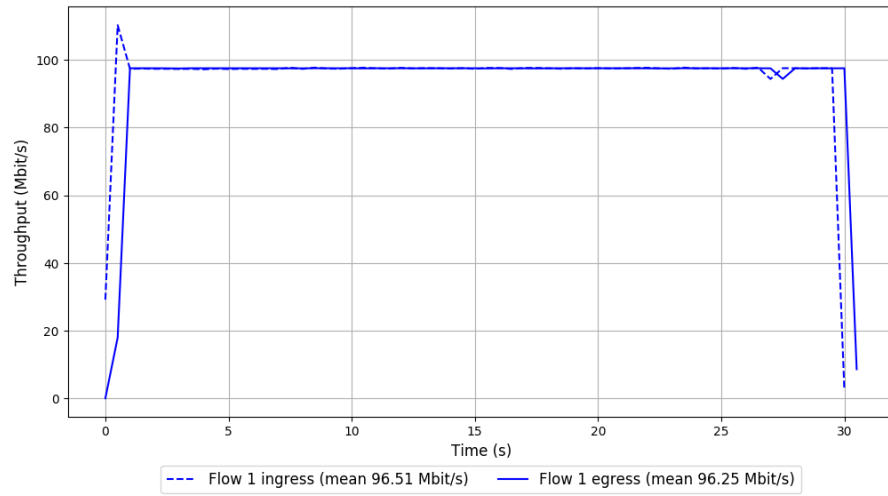
-- Flow 1:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 41.298 ms

Loss rate: 0.27%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-08-27 20:50:25

End at: 2018-08-27 20:50:55

Local clock offset: 1.419 ms

Remote clock offset: 3.909 ms

Below is generated by plot.py at 2018-08-28 00:34:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.35 Mbit/s

95th percentile per-packet one-way delay: 65.485 ms

Loss rate: 19.27%

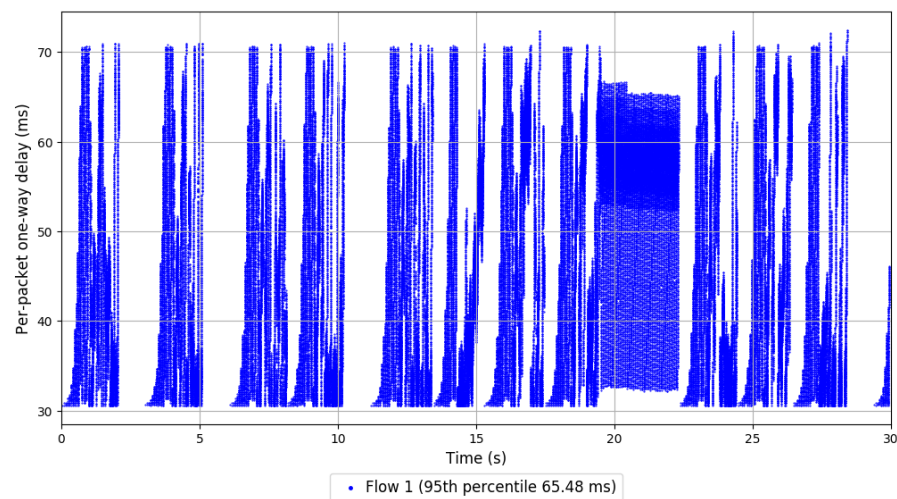
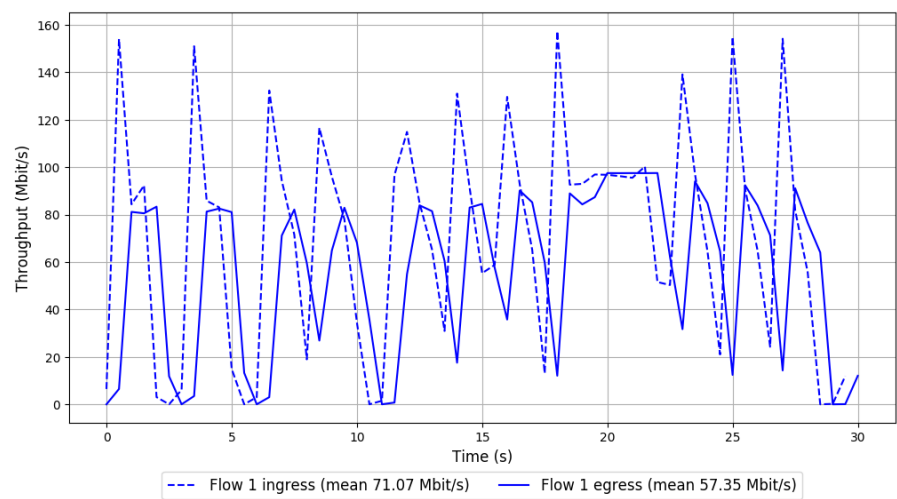
-- Flow 1:

Average throughput: 57.35 Mbit/s

95th percentile per-packet one-way delay: 65.485 ms

Loss rate: 19.27%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-08-27 21:12:26

End at: 2018-08-27 21:12:56

Local clock offset: 1.307 ms

Remote clock offset: 4.644 ms

Below is generated by plot.py at 2018-08-28 00:34:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.52 Mbit/s

95th percentile per-packet one-way delay: 66.005 ms

Loss rate: 22.72%

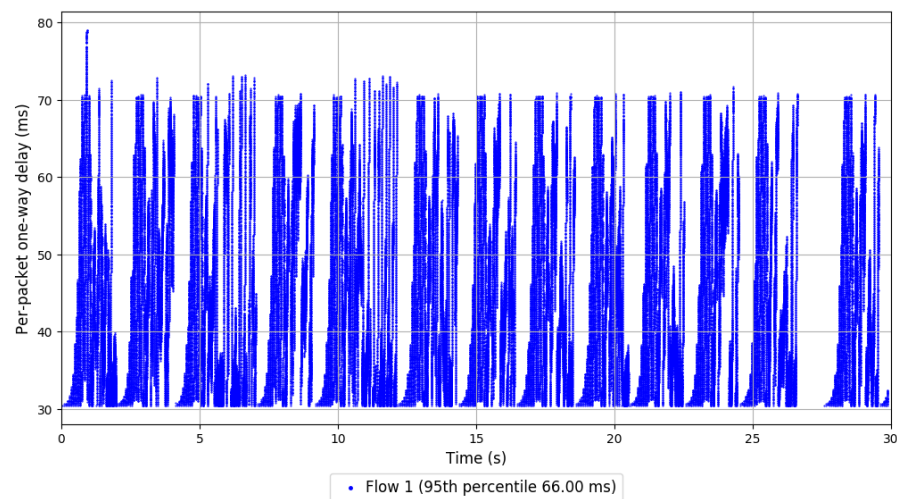
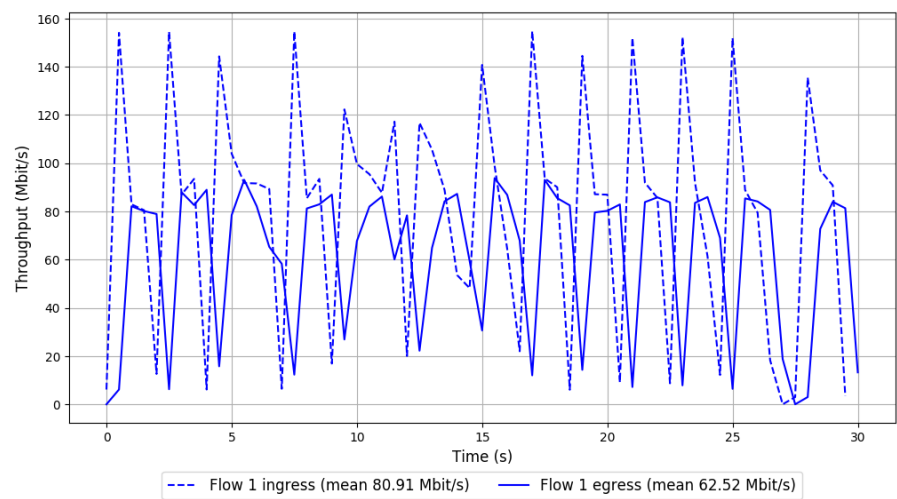
-- Flow 1:

Average throughput: 62.52 Mbit/s

95th percentile per-packet one-way delay: 66.005 ms

Loss rate: 22.72%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-08-27 21:34:31

End at: 2018-08-27 21:35:01

Local clock offset: 1.338 ms

Remote clock offset: 5.824 ms

Below is generated by plot.py at 2018-08-28 00:34:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.20 Mbit/s

95th percentile per-packet one-way delay: 66.145 ms

Loss rate: 28.63%

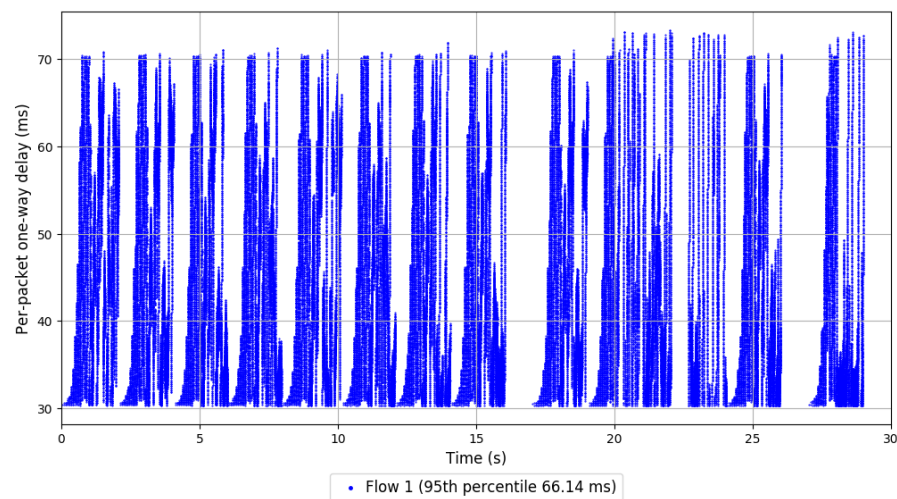
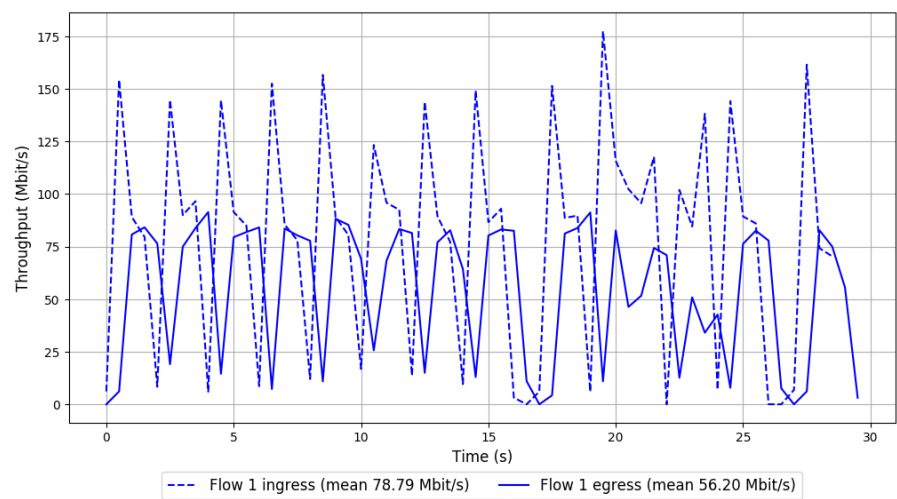
-- Flow 1:

Average throughput: 56.20 Mbit/s

95th percentile per-packet one-way delay: 66.145 ms

Loss rate: 28.63%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-08-27 21:56:28

End at: 2018-08-27 21:56:58

Local clock offset: 1.09 ms

Remote clock offset: 6.364 ms

Below is generated by plot.py at 2018-08-28 00:34:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.20 Mbit/s

95th percentile per-packet one-way delay: 66.544 ms

Loss rate: 26.18%

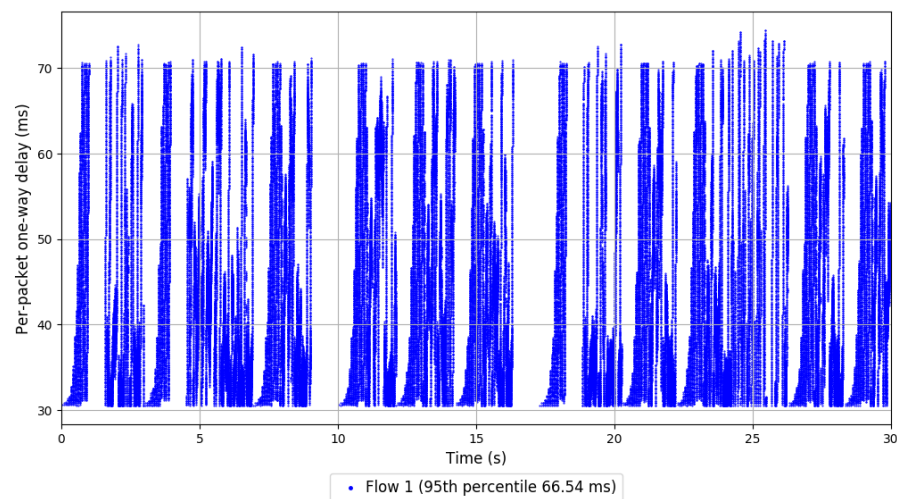
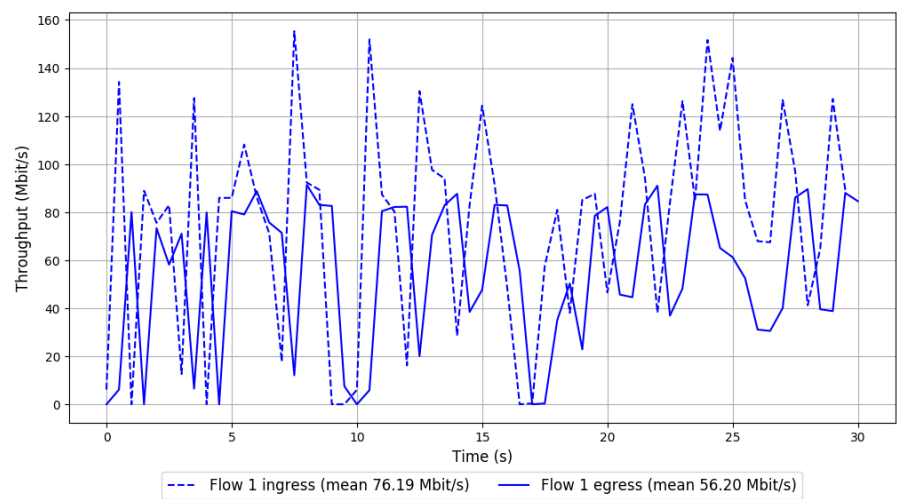
-- Flow 1:

Average throughput: 56.20 Mbit/s

95th percentile per-packet one-way delay: 66.544 ms

Loss rate: 26.18%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-08-27 22:18:26

End at: 2018-08-27 22:18:56

Local clock offset: 1.05 ms

Remote clock offset: 8.015 ms

Below is generated by plot.py at 2018-08-28 00:34:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.59 Mbit/s

95th percentile per-packet one-way delay: 65.416 ms

Loss rate: 21.49%

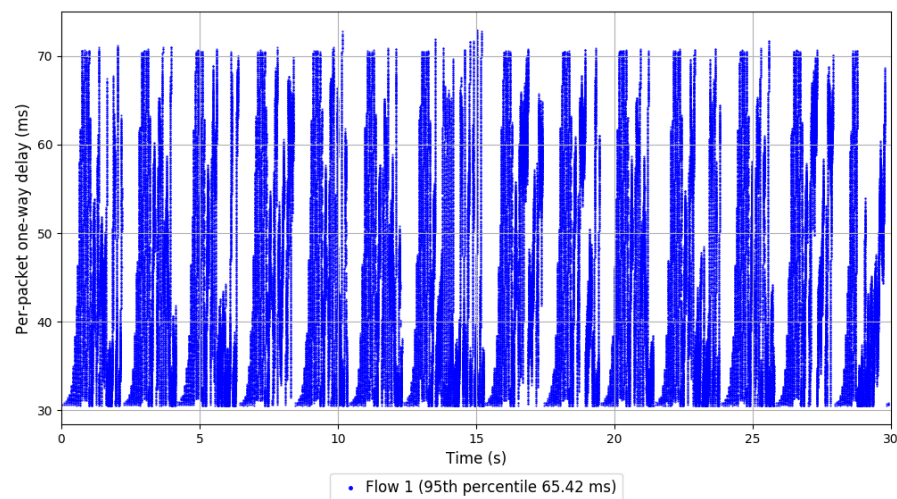
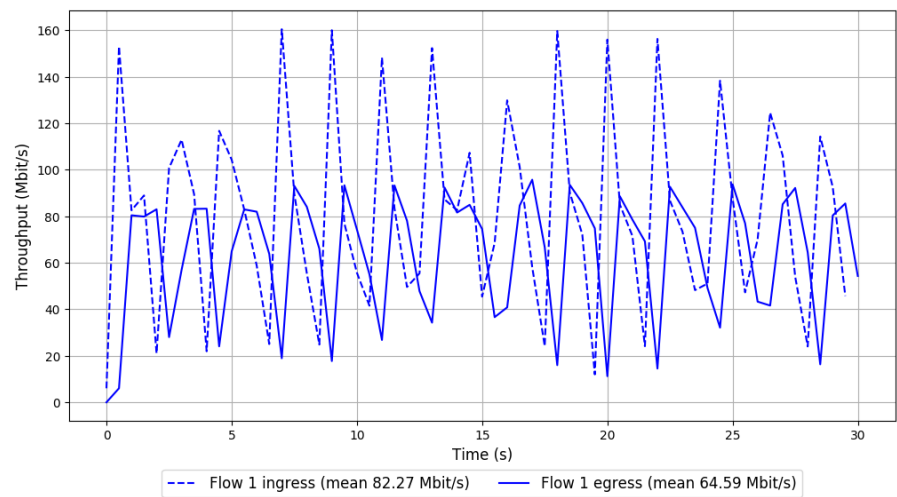
-- Flow 1:

Average throughput: 64.59 Mbit/s

95th percentile per-packet one-way delay: 65.416 ms

Loss rate: 21.49%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-08-27 22:40:23

End at: 2018-08-27 22:40:53

Local clock offset: 0.988 ms

Remote clock offset: 8.83 ms

Below is generated by plot.py at 2018-08-28 00:34:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.03 Mbit/s

95th percentile per-packet one-way delay: 66.089 ms

Loss rate: 26.78%

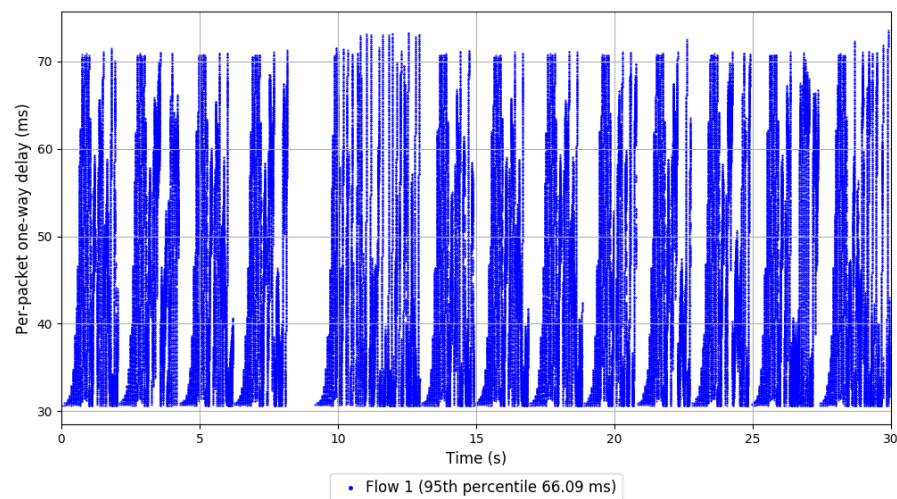
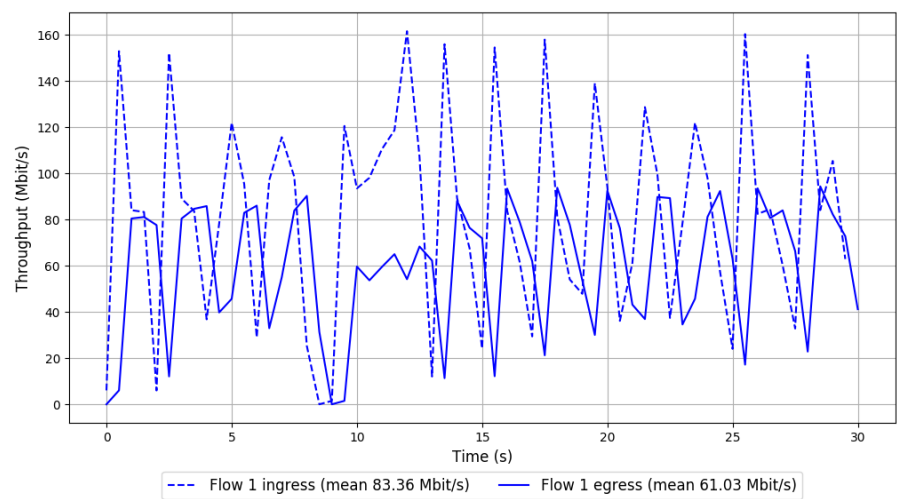
-- Flow 1:

Average throughput: 61.03 Mbit/s

95th percentile per-packet one-way delay: 66.089 ms

Loss rate: 26.78%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-08-27 23:02:24

End at: 2018-08-27 23:02:54

Local clock offset: 1.06 ms

Remote clock offset: 8.075 ms

Below is generated by plot.py at 2018-08-28 00:34:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.22 Mbit/s

95th percentile per-packet one-way delay: 65.937 ms

Loss rate: 23.85%

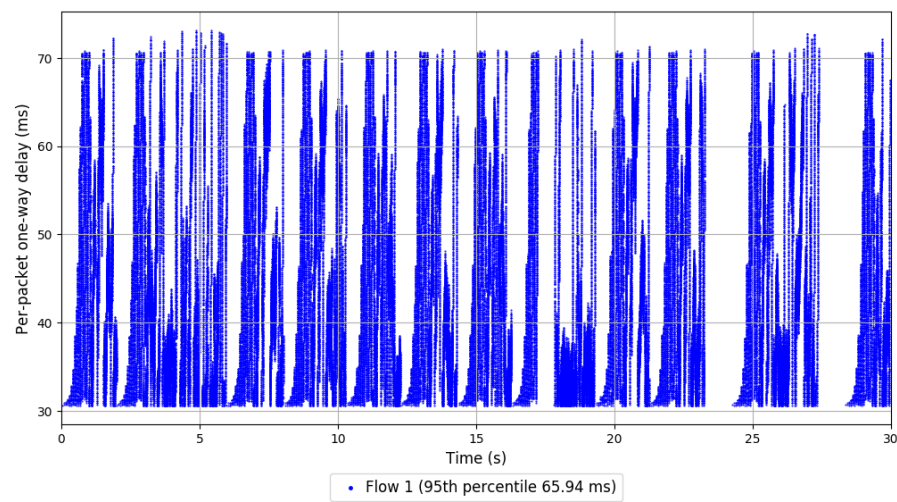
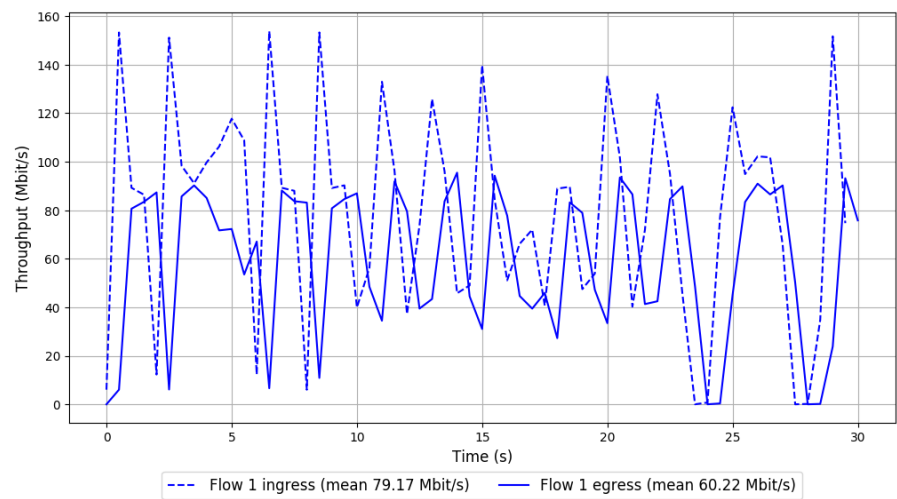
-- Flow 1:

Average throughput: 60.22 Mbit/s

95th percentile per-packet one-way delay: 65.937 ms

Loss rate: 23.85%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-08-27 23:24:23

End at: 2018-08-27 23:24:53

Local clock offset: 0.947 ms

Remote clock offset: 7.472 ms

Below is generated by plot.py at 2018-08-28 00:34:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.72 Mbit/s

95th percentile per-packet one-way delay: 66.089 ms

Loss rate: 21.90%

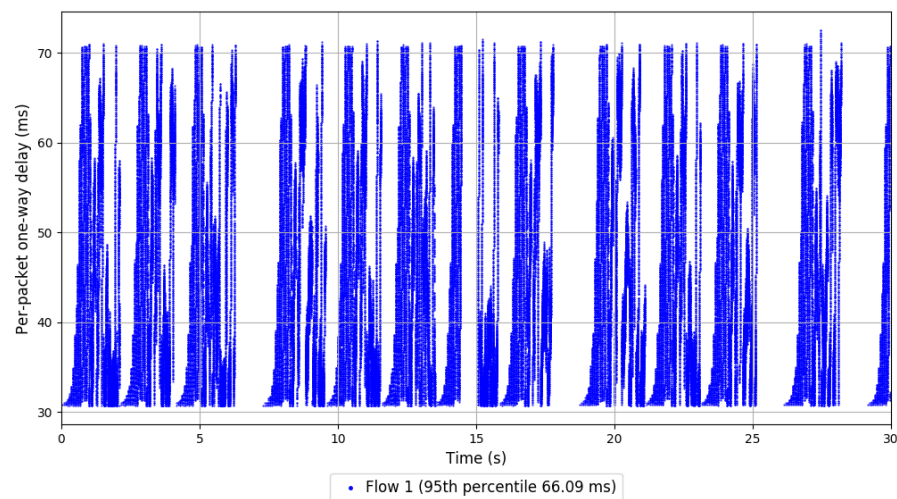
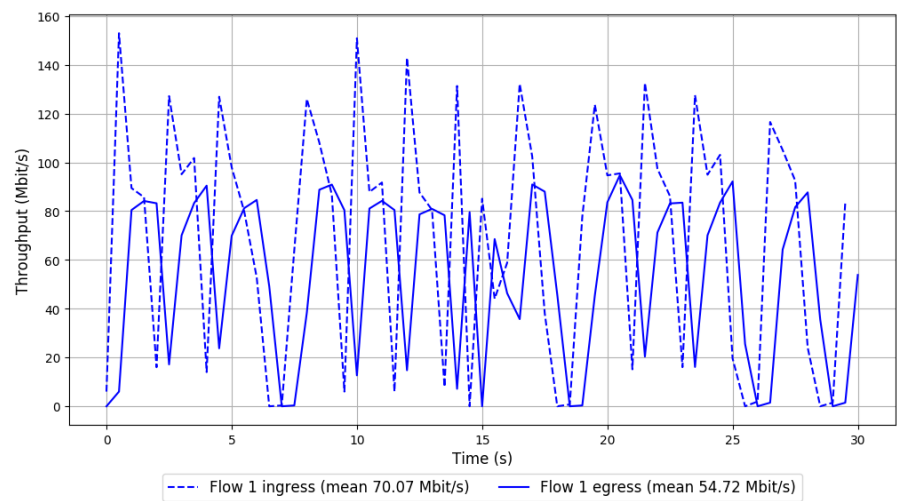
-- Flow 1:

Average throughput: 54.72 Mbit/s

95th percentile per-packet one-way delay: 66.089 ms

Loss rate: 21.90%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-08-27 23:46:18

End at: 2018-08-27 23:46:48

Local clock offset: 0.901 ms

Remote clock offset: 5.134 ms

Below is generated by plot.py at 2018-08-28 00:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.58 Mbit/s

95th percentile per-packet one-way delay: 66.411 ms

Loss rate: 24.22%

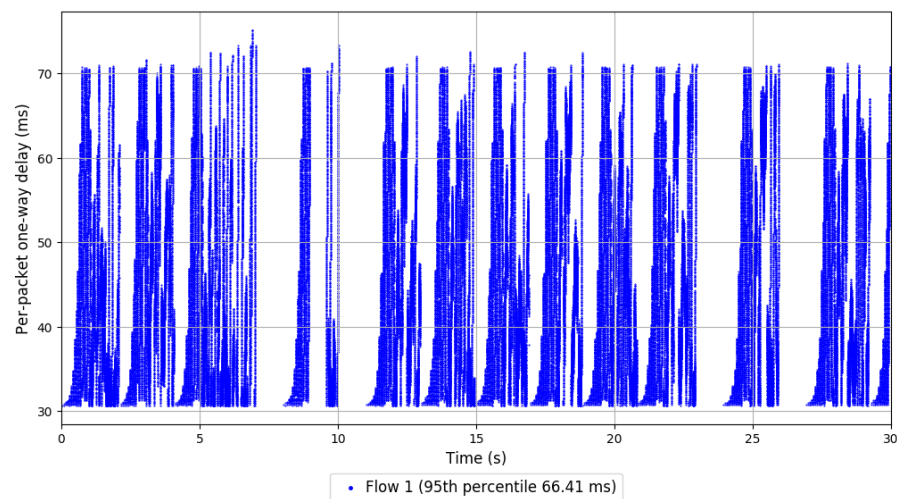
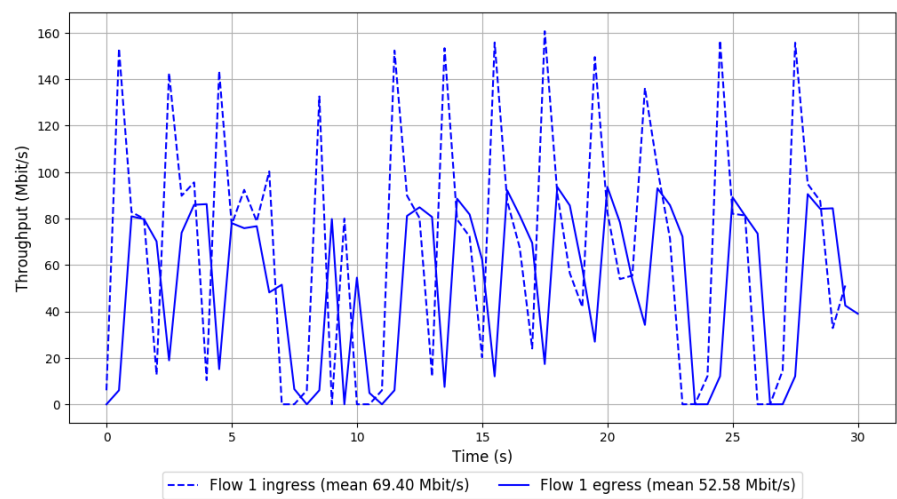
-- Flow 1:

Average throughput: 52.58 Mbit/s

95th percentile per-packet one-way delay: 66.411 ms

Loss rate: 24.22%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-08-28 00:08:12

End at: 2018-08-28 00:08:42

Local clock offset: 0.66 ms

Remote clock offset: 3.239 ms

Below is generated by plot.py at 2018-08-28 00:35:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.31 Mbit/s

95th percentile per-packet one-way delay: 65.877 ms

Loss rate: 21.83%

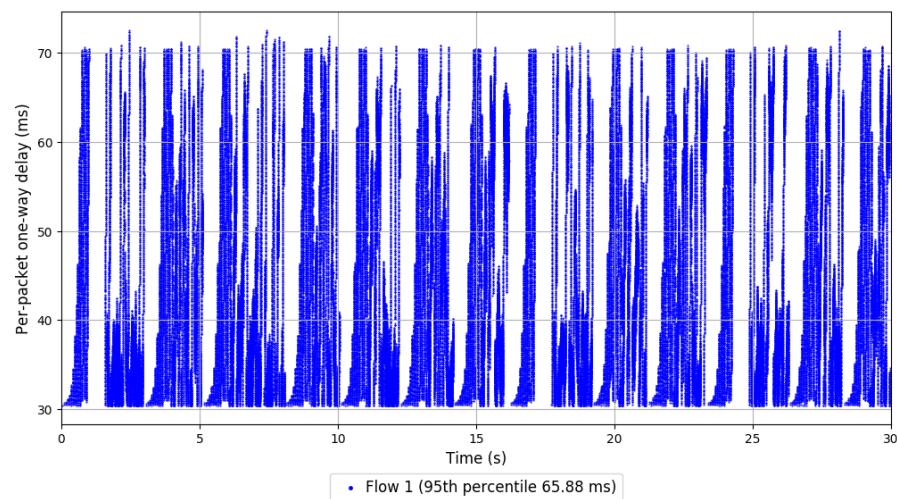
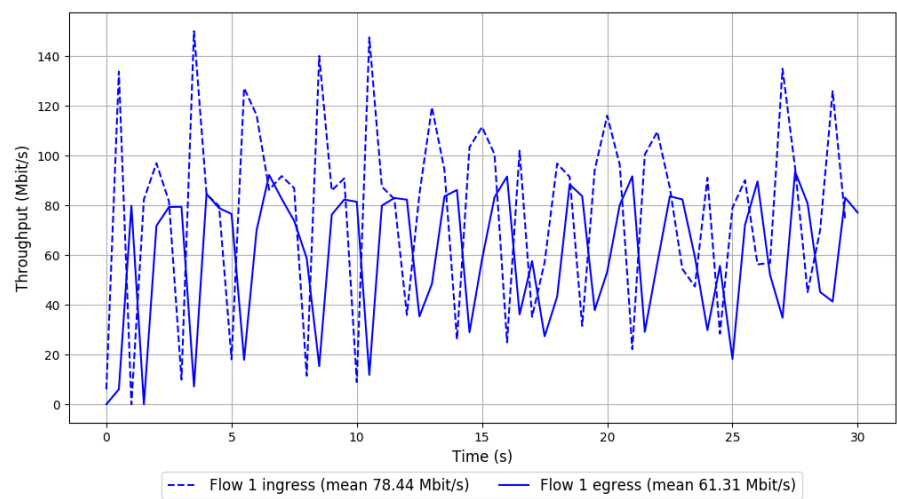
-- Flow 1:

Average throughput: 61.31 Mbit/s

95th percentile per-packet one-way delay: 65.877 ms

Loss rate: 21.83%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-08-27 20:45:12

End at: 2018-08-27 20:45:42

Local clock offset: 1.289 ms

Remote clock offset: 3.797 ms

Below is generated by plot.py at 2018-08-28 00:35:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.31 Mbit/s

95th percentile per-packet one-way delay: 32.360 ms

Loss rate: 0.00%

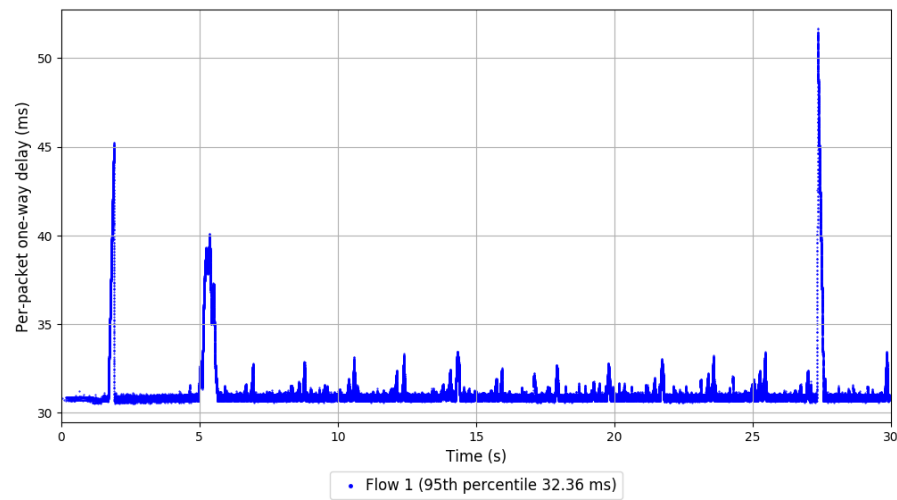
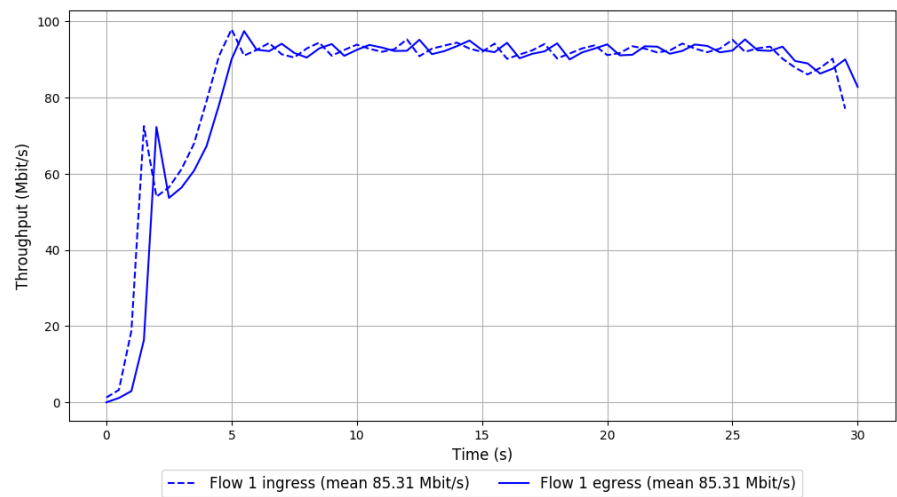
-- Flow 1:

Average throughput: 85.31 Mbit/s

95th percentile per-packet one-way delay: 32.360 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-08-27 21:07:14

End at: 2018-08-27 21:07:44

Local clock offset: 1.425 ms

Remote clock offset: 4.838 ms

Below is generated by plot.py at 2018-08-28 00:35:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.99 Mbit/s

95th percentile per-packet one-way delay: 34.689 ms

Loss rate: 0.00%

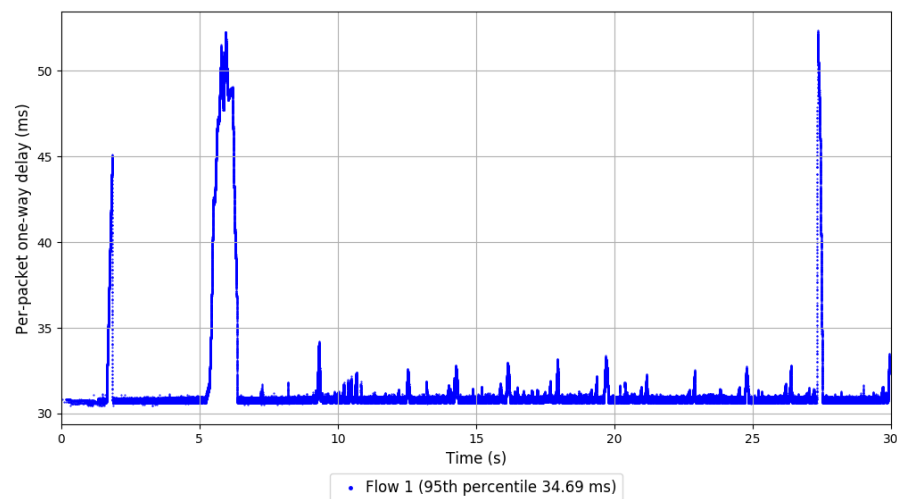
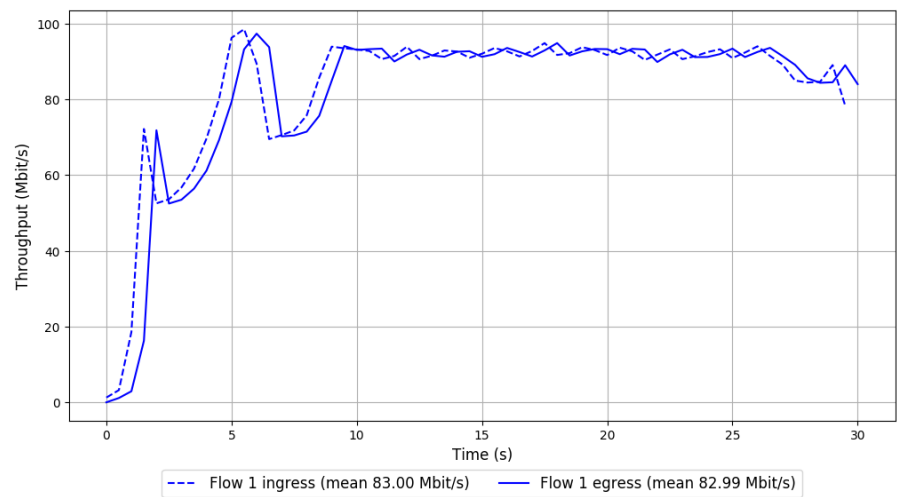
-- Flow 1:

Average throughput: 82.99 Mbit/s

95th percentile per-packet one-way delay: 34.689 ms

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-08-27 21:29:20

End at: 2018-08-27 21:29:50

Local clock offset: 1.449 ms

Remote clock offset: 5.568 ms

Below is generated by plot.py at 2018-08-28 00:35:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.36 Mbit/s

95th percentile per-packet one-way delay: 32.625 ms

Loss rate: 0.00%

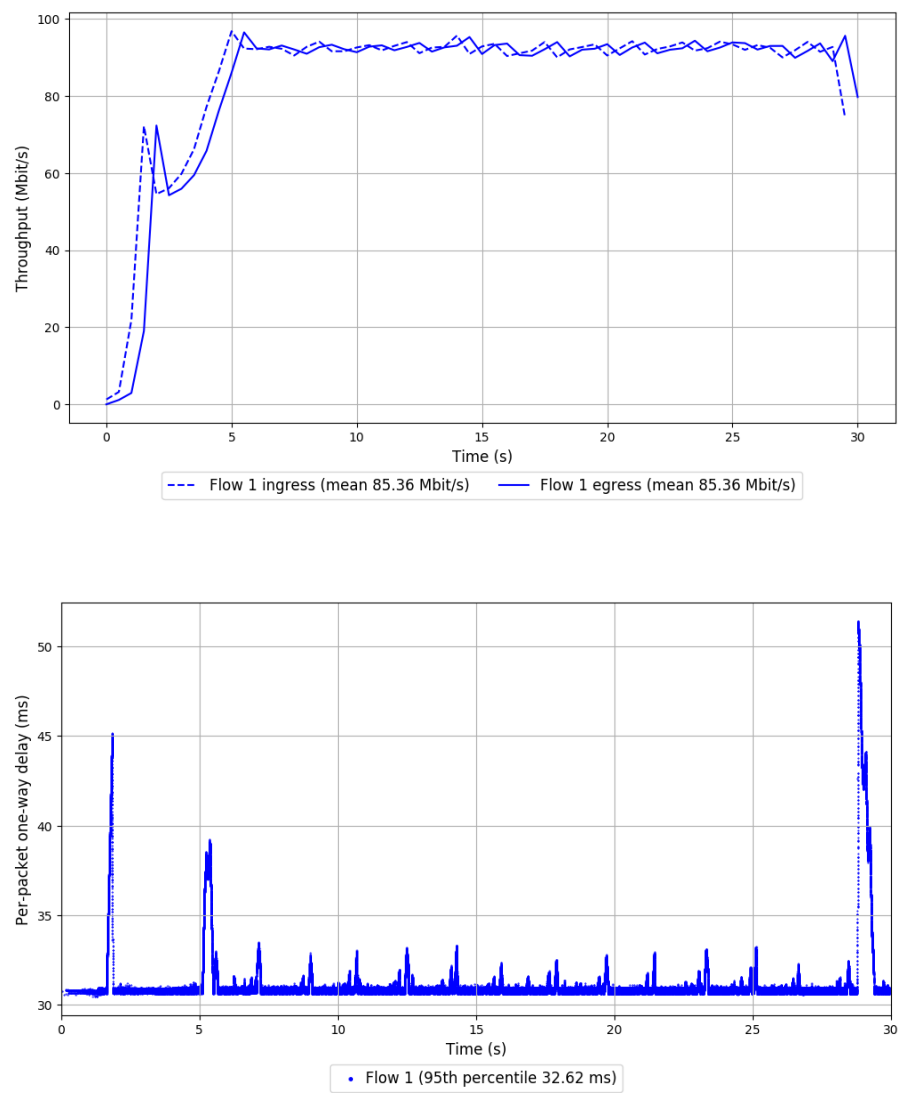
-- Flow 1:

Average throughput: 85.36 Mbit/s

95th percentile per-packet one-way delay: 32.625 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-08-27 21:51:17

End at: 2018-08-27 21:51:47

Local clock offset: 1.052 ms

Remote clock offset: 6.136 ms

Below is generated by plot.py at 2018-08-28 00:35:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.62 Mbit/s

95th percentile per-packet one-way delay: 35.174 ms

Loss rate: 0.00%

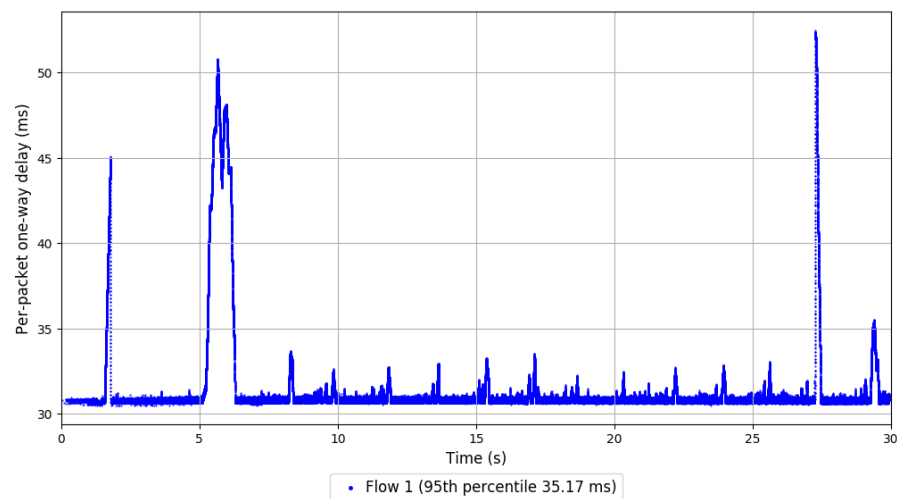
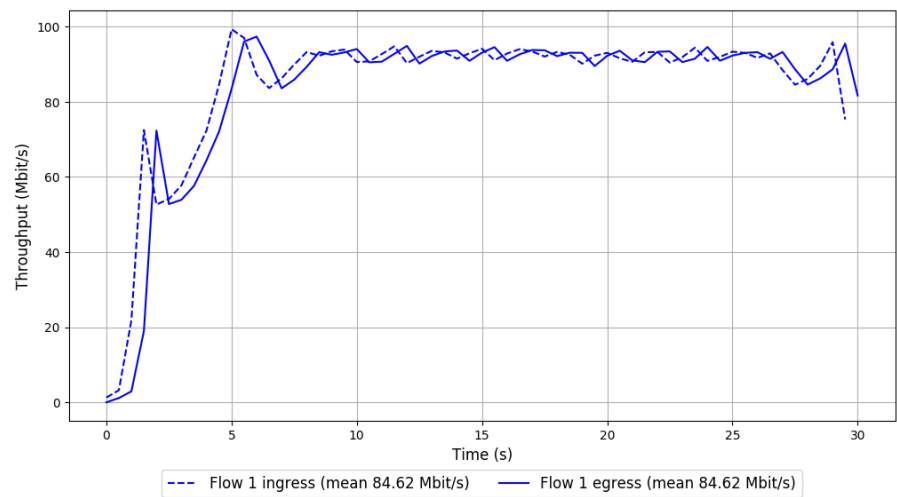
-- Flow 1:

Average throughput: 84.62 Mbit/s

95th percentile per-packet one-way delay: 35.174 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-08-27 22:13:15

End at: 2018-08-27 22:13:45

Local clock offset: 0.962 ms

Remote clock offset: 7.441 ms

Below is generated by plot.py at 2018-08-28 00:35:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.40 Mbit/s

95th percentile per-packet one-way delay: 32.536 ms

Loss rate: 0.00%

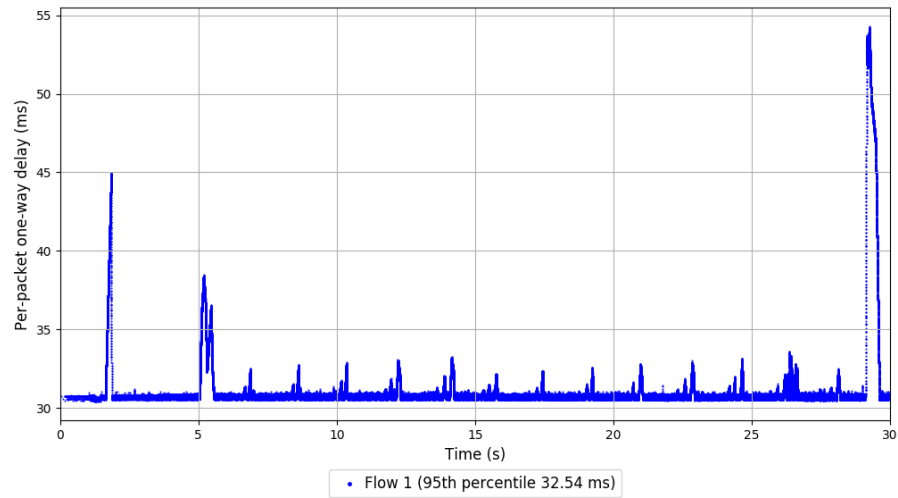
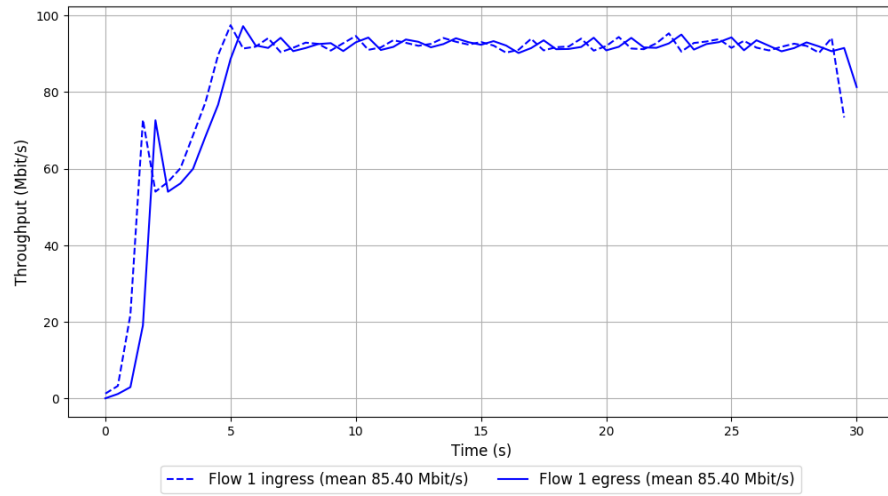
-- Flow 1:

Average throughput: 85.40 Mbit/s

95th percentile per-packet one-way delay: 32.536 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-08-27 22:35:13

End at: 2018-08-27 22:35:43

Local clock offset: 1.084 ms

Remote clock offset: 8.797 ms

Below is generated by plot.py at 2018-08-28 00:36:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.51 Mbit/s

95th percentile per-packet one-way delay: 33.750 ms

Loss rate: 0.00%

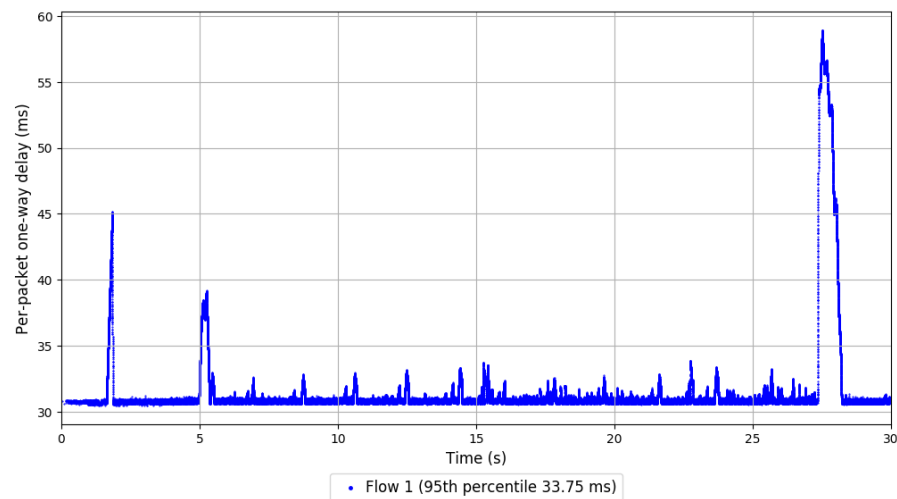
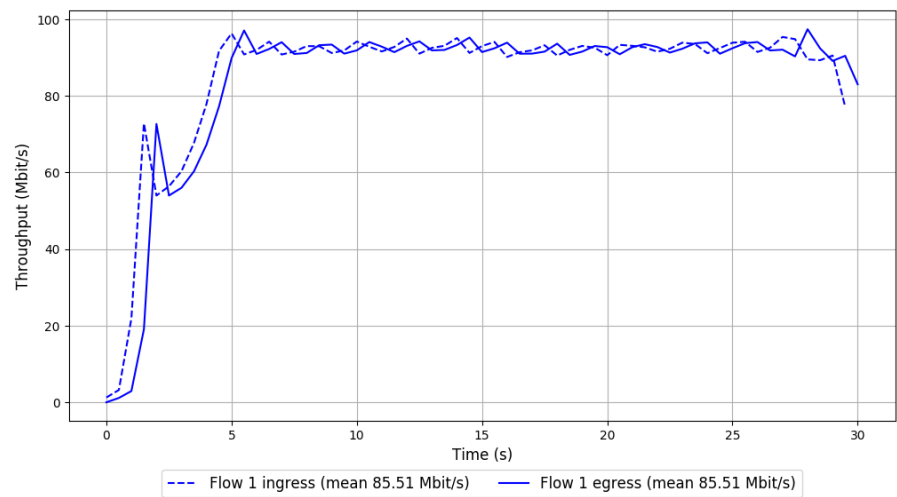
-- Flow 1:

Average throughput: 85.51 Mbit/s

95th percentile per-packet one-way delay: 33.750 ms

Loss rate: 0.00%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-08-27 22:57:12

End at: 2018-08-27 22:57:42

Local clock offset: 1.031 ms

Remote clock offset: 8.211 ms

Below is generated by plot.py at 2018-08-28 00:36:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.32 Mbit/s

95th percentile per-packet one-way delay: 33.198 ms

Loss rate: 0.00%

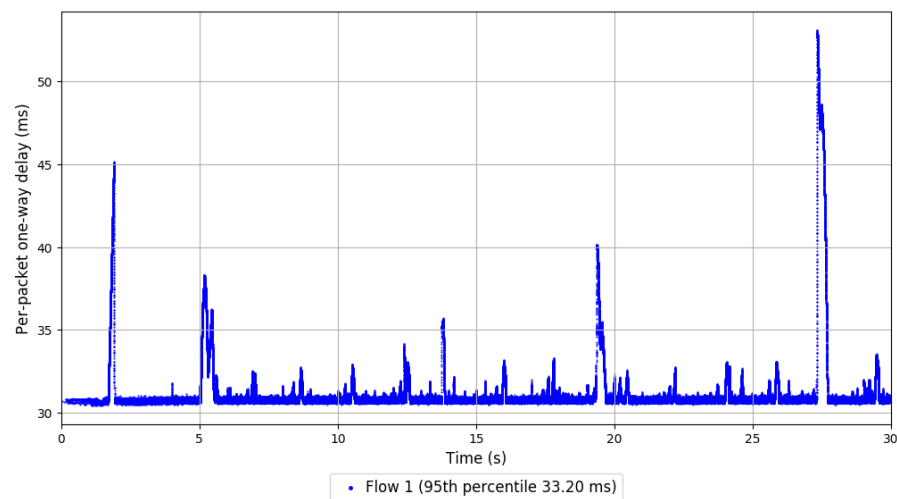
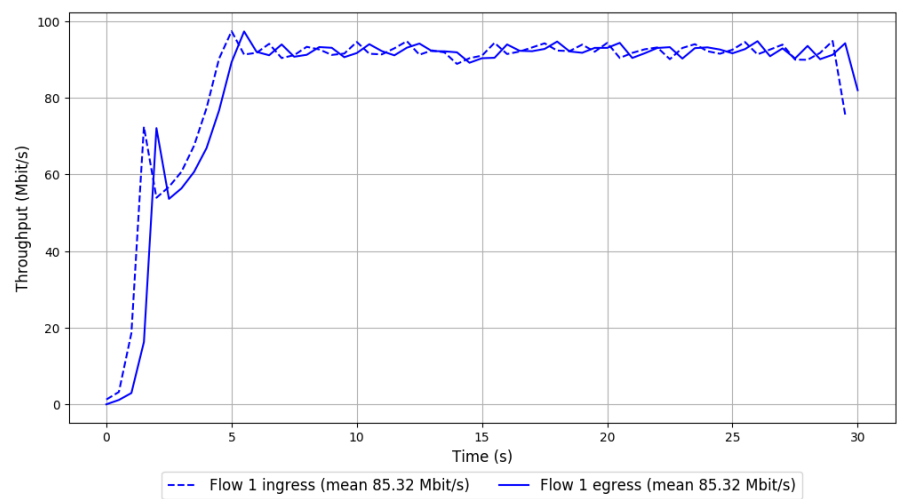
-- Flow 1:

Average throughput: 85.32 Mbit/s

95th percentile per-packet one-way delay: 33.198 ms

Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-08-27 23:19:12

End at: 2018-08-27 23:19:42

Local clock offset: 1.026 ms

Remote clock offset: 8.004 ms

Below is generated by plot.py at 2018-08-28 00:36:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.30 Mbit/s

95th percentile per-packet one-way delay: 36.331 ms

Loss rate: 0.00%

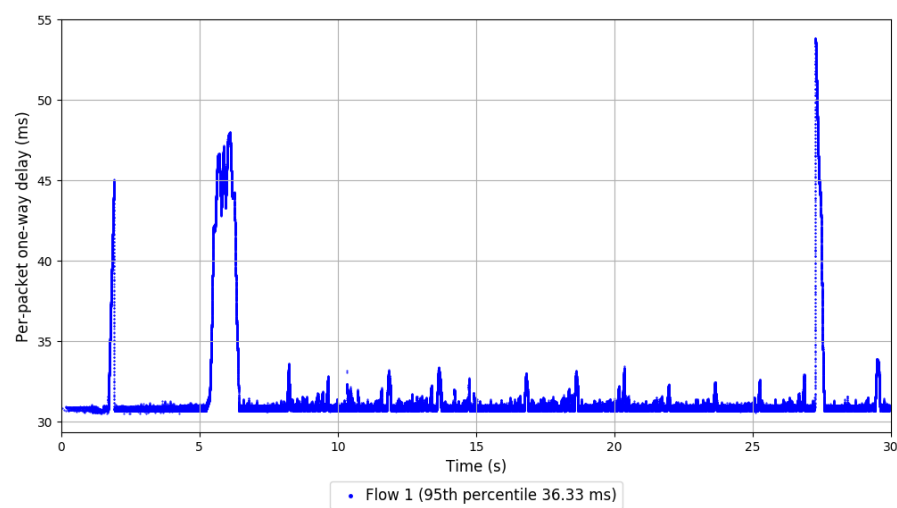
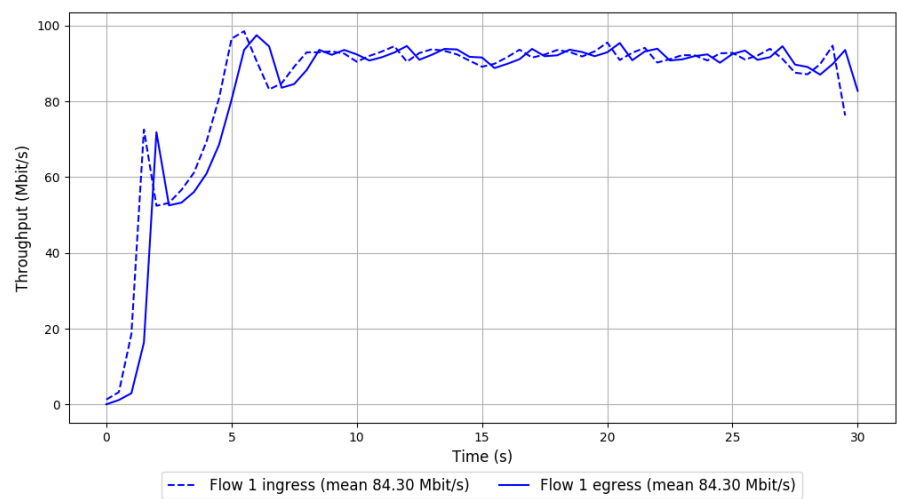
-- Flow 1:

Average throughput: 84.30 Mbit/s

95th percentile per-packet one-way delay: 36.331 ms

Loss rate: 0.00%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-08-27 23:41:08

End at: 2018-08-27 23:41:38

Local clock offset: 0.914 ms

Remote clock offset: 5.641 ms

Below is generated by plot.py at 2018-08-28 00:36:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.01 Mbit/s

95th percentile per-packet one-way delay: 37.848 ms

Loss rate: 0.00%

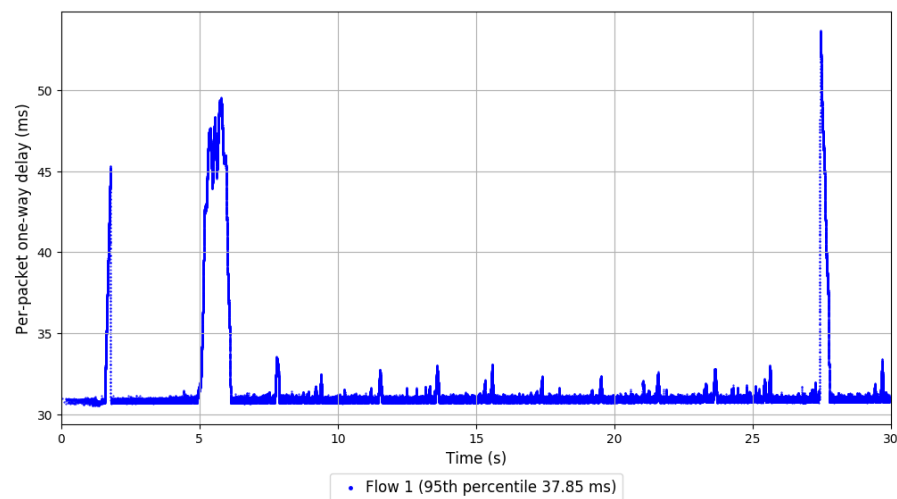
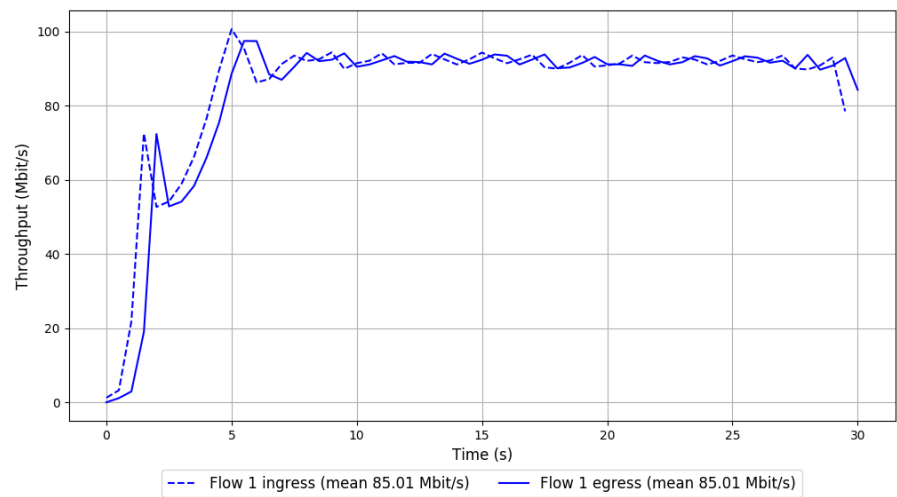
-- Flow 1:

Average throughput: 85.01 Mbit/s

95th percentile per-packet one-way delay: 37.848 ms

Loss rate: 0.00%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-08-28 00:03:04

End at: 2018-08-28 00:03:34

Local clock offset: 0.806 ms

Remote clock offset: 3.648 ms

Below is generated by plot.py at 2018-08-28 00:36:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.50 Mbit/s

95th percentile per-packet one-way delay: 37.857 ms

Loss rate: 0.00%

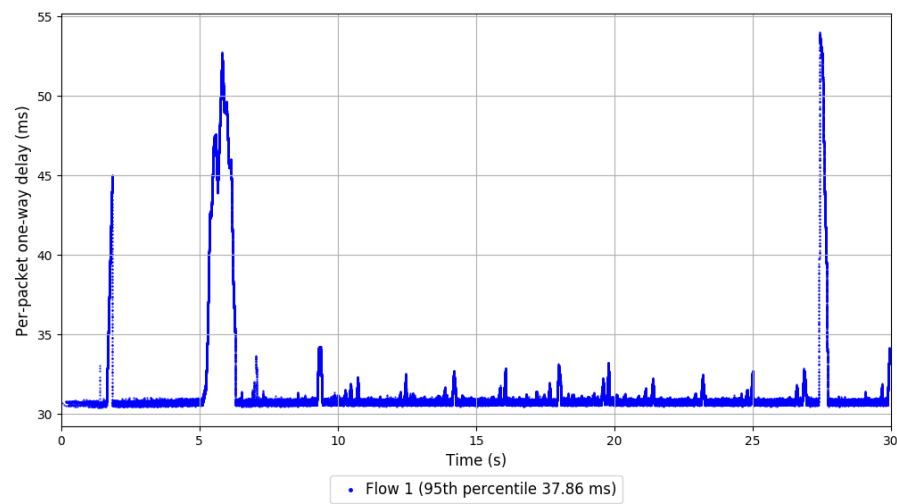
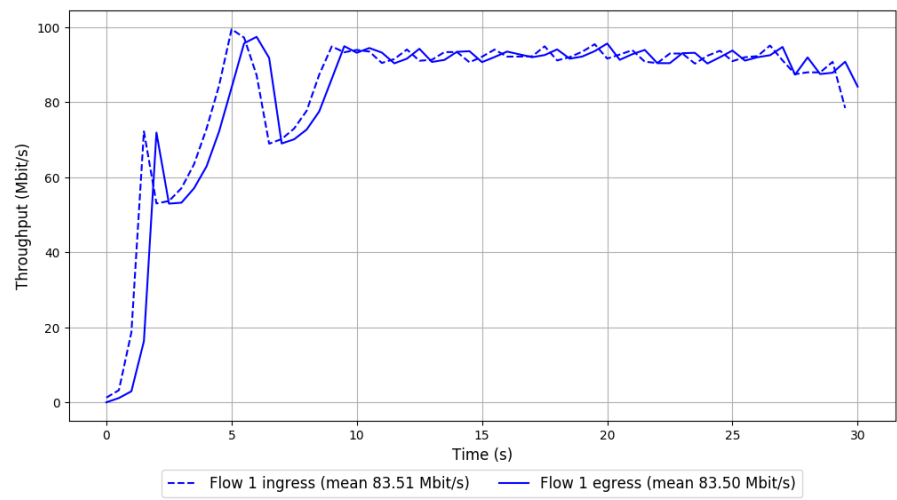
-- Flow 1:

Average throughput: 83.50 Mbit/s

95th percentile per-packet one-way delay: 37.857 ms

Loss rate: 0.00%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-08-27 20:38:49

End at: 2018-08-27 20:39:19

Local clock offset: 1.473 ms

Remote clock offset: 3.991 ms

Below is generated by plot.py at 2018-08-28 00:36:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 31.226 ms

Loss rate: 0.00%

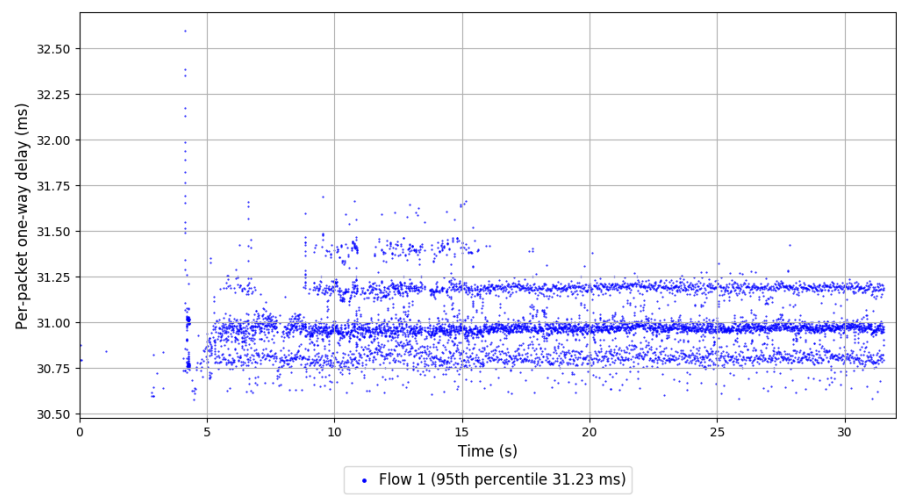
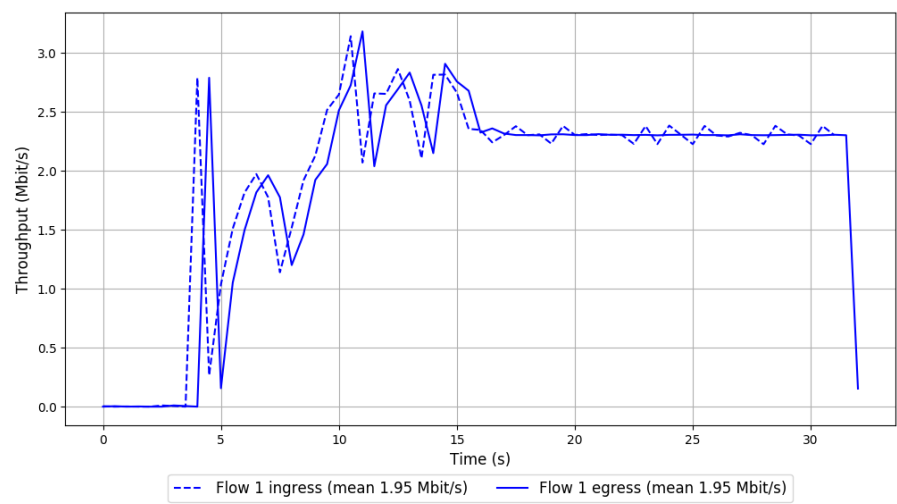
-- Flow 1:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 31.226 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-08-27 21:00:47

End at: 2018-08-27 21:01:17

Local clock offset: 1.675 ms

Remote clock offset: 4.35 ms

Below is generated by plot.py at 2018-08-28 00:36:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 31.224 ms

Loss rate: 0.01%

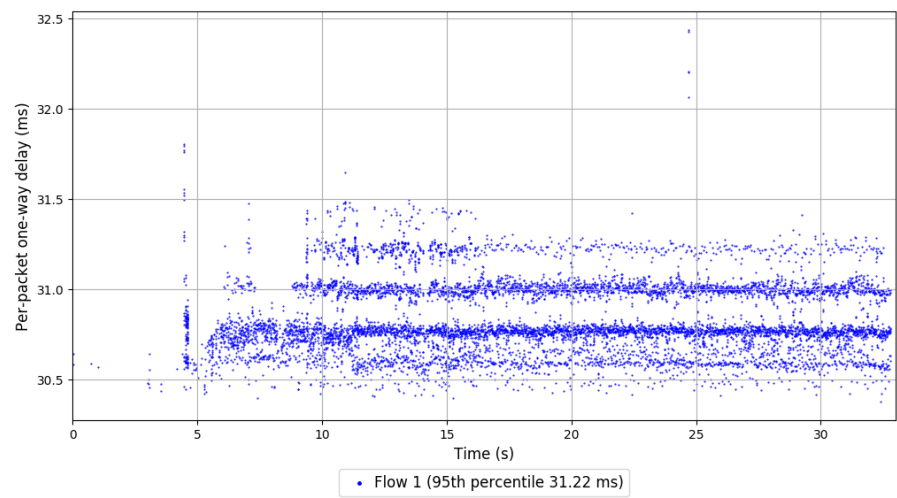
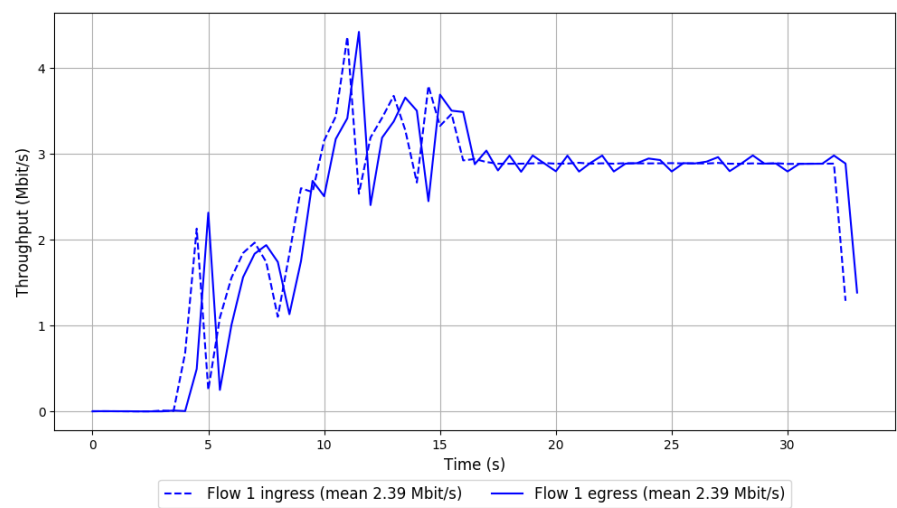
-- Flow 1:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 31.224 ms

Loss rate: 0.01%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-08-27 21:22:50

End at: 2018-08-27 21:23:20

Local clock offset: 1.328 ms

Remote clock offset: 5.009 ms

Below is generated by plot.py at 2018-08-28 00:36:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 30.911 ms

Loss rate: 0.00%

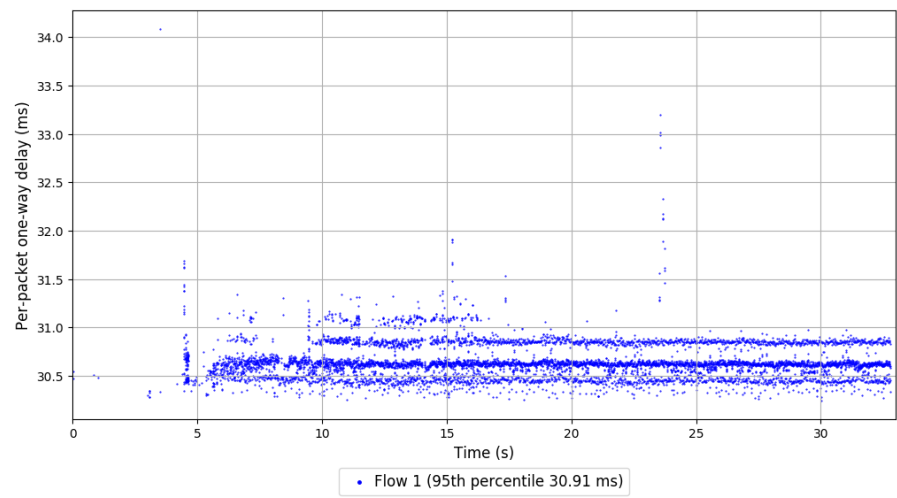
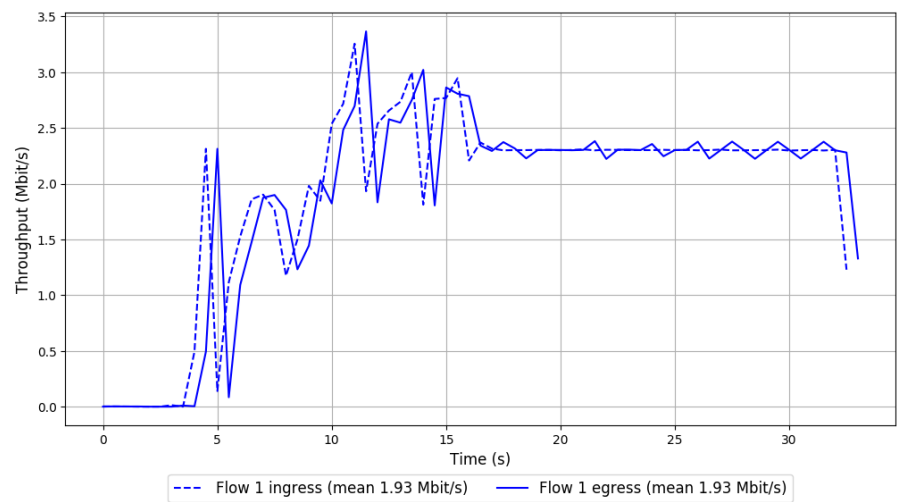
-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 30.911 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-08-27 21:44:52

End at: 2018-08-27 21:45:22

Local clock offset: 1.081 ms

Remote clock offset: 6.215 ms

Below is generated by plot.py at 2018-08-28 00:36:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 31.081 ms

Loss rate: 0.00%

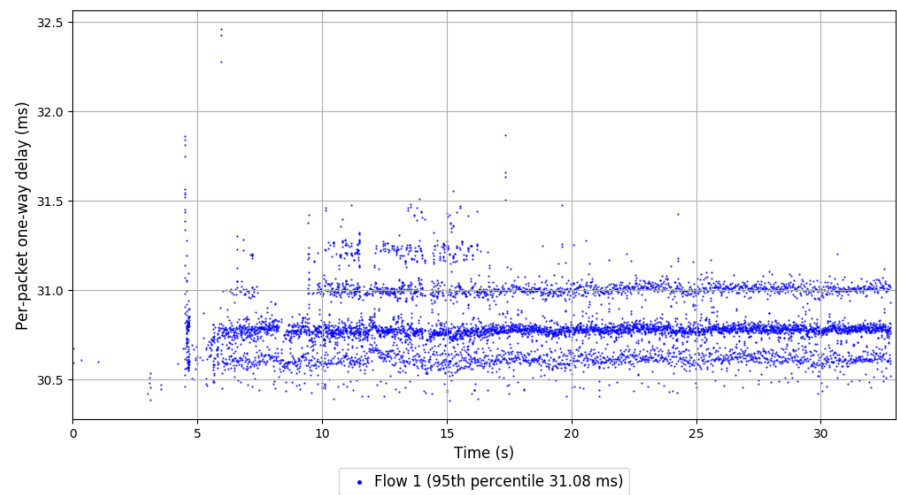
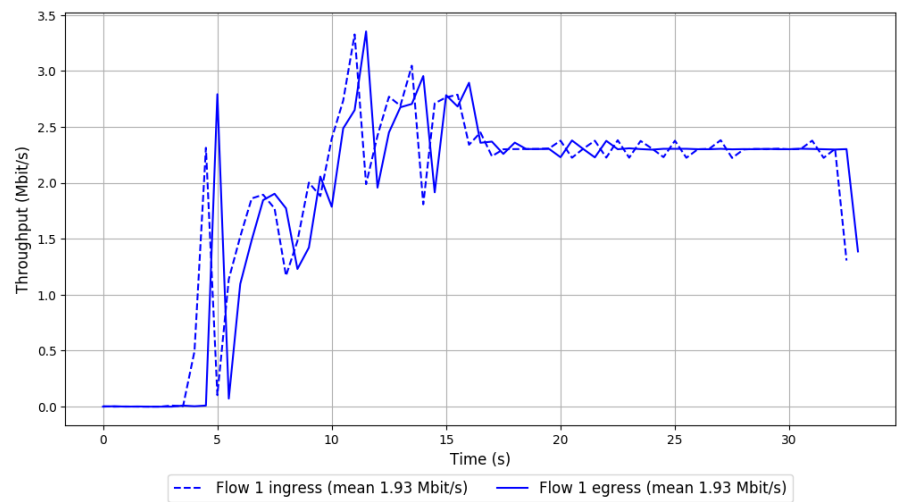
-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 31.081 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-08-27 22:06:50

End at: 2018-08-27 22:07:20

Local clock offset: 1.083 ms

Remote clock offset: 7.071 ms

Below is generated by plot.py at 2018-08-28 00:36:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 31.121 ms

Loss rate: 0.00%

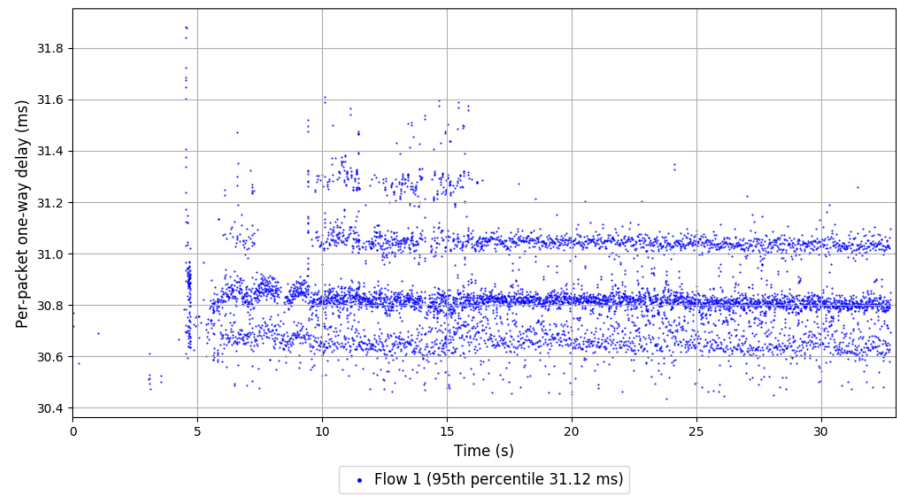
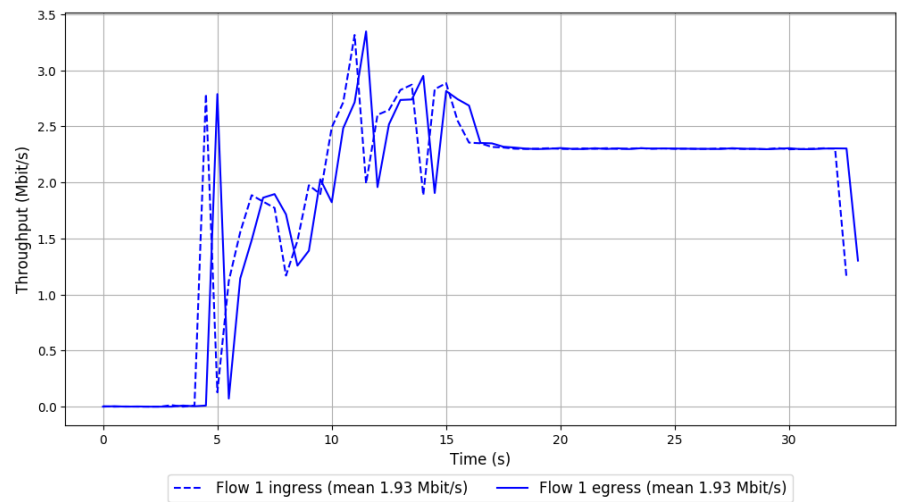
-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 31.121 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-08-27 22:28:47

End at: 2018-08-27 22:29:17

Local clock offset: 1.143 ms

Remote clock offset: 8.537 ms

Below is generated by plot.py at 2018-08-28 00:36:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 30.914 ms

Loss rate: 0.00%

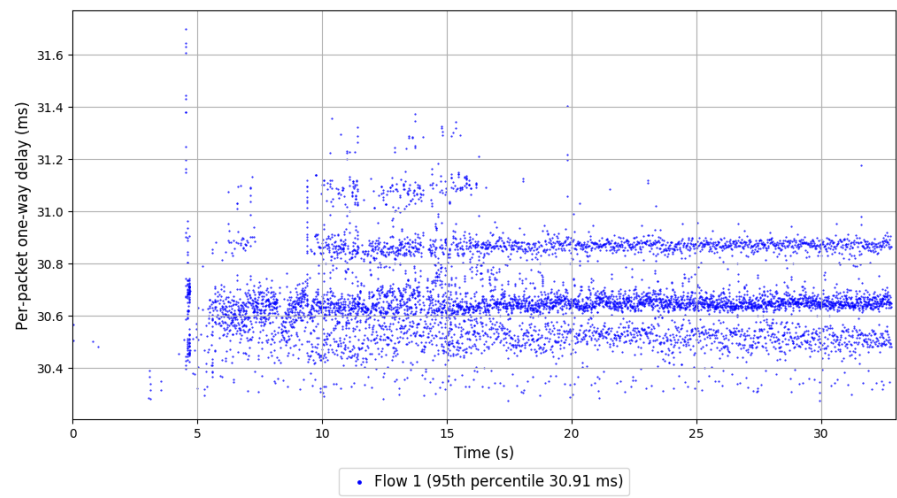
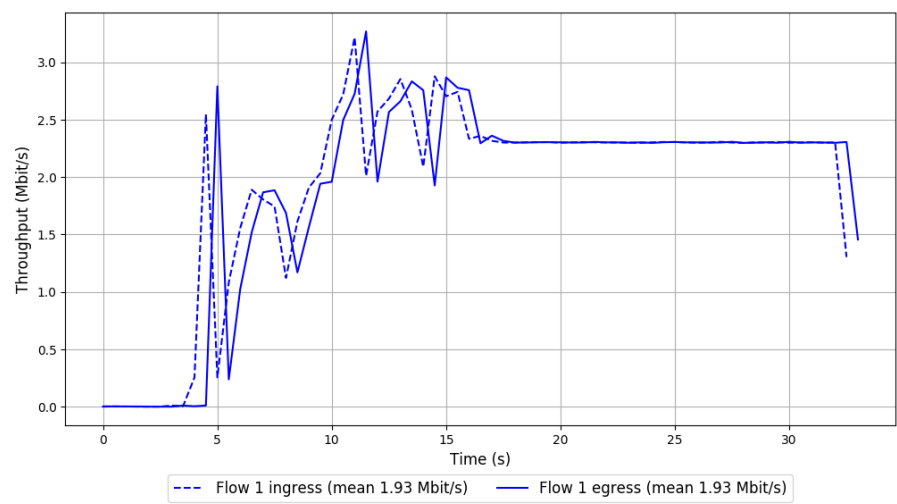
-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 30.914 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-08-27 22:50:46

End at: 2018-08-27 22:51:16

Local clock offset: 0.896 ms

Remote clock offset: 8.456 ms

Below is generated by plot.py at 2018-08-28 00:36:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 31.278 ms

Loss rate: 0.00%

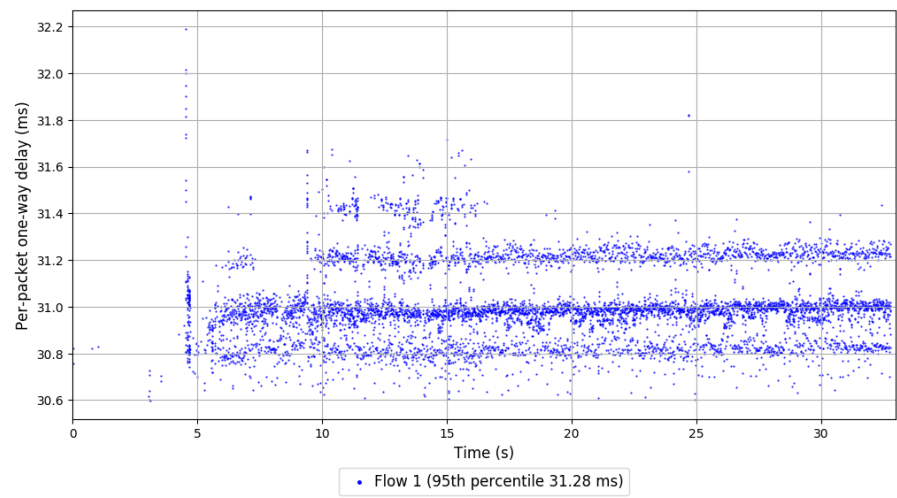
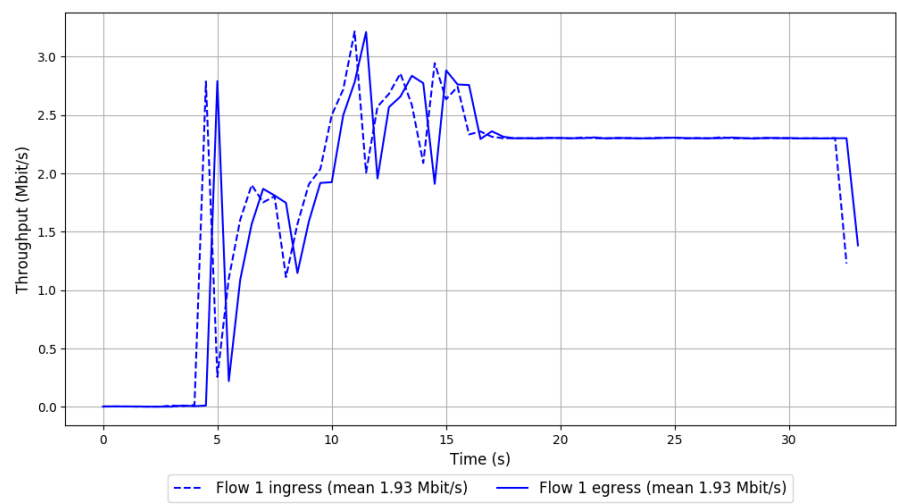
-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 31.278 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-08-27 23:12:47

End at: 2018-08-27 23:13:17

Local clock offset: 0.928 ms

Remote clock offset: 8.038 ms

Below is generated by plot.py at 2018-08-28 00:36:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 31.256 ms

Loss rate: 0.00%

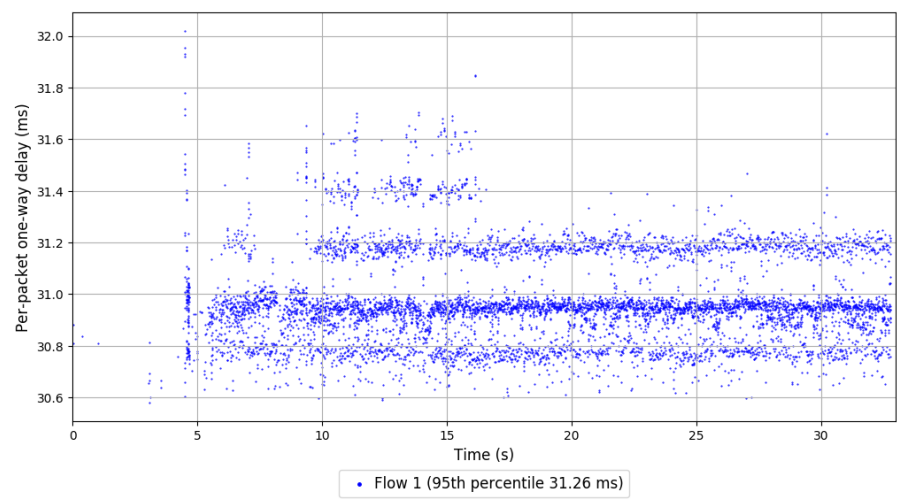
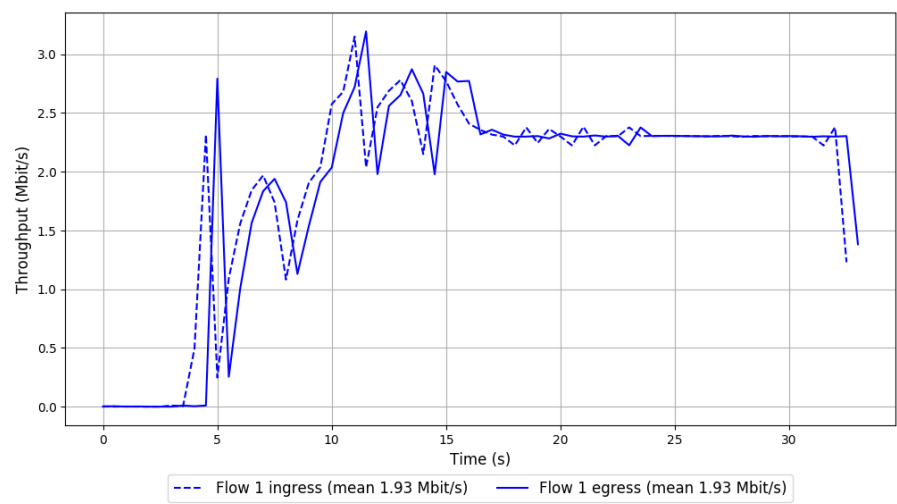
-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 31.256 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-08-27 23:34:42

End at: 2018-08-27 23:35:12

Local clock offset: 0.922 ms

Remote clock offset: 6.335 ms

Below is generated by plot.py at 2018-08-28 00:36:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 31.228 ms

Loss rate: 0.00%

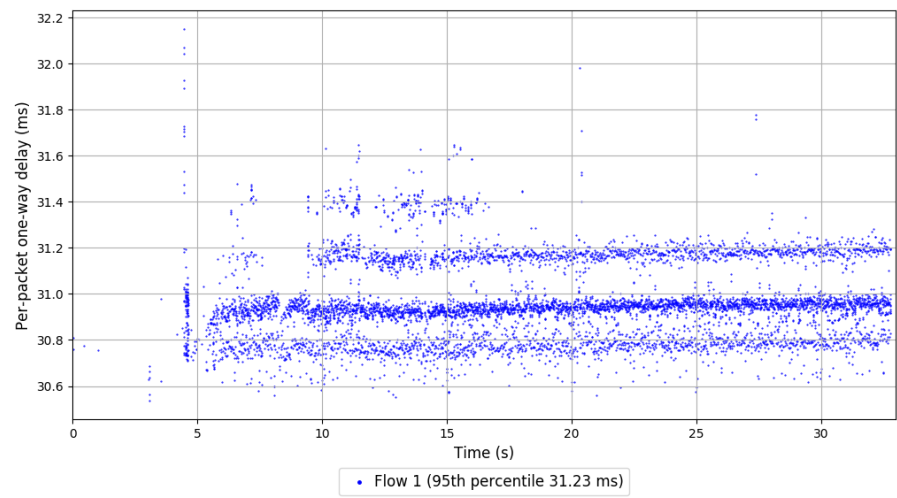
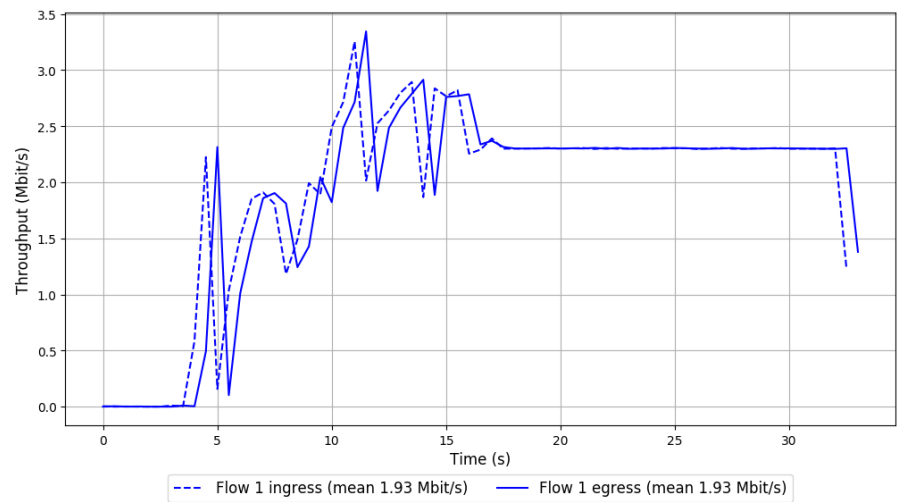
-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 31.228 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-08-27 23:56:39

End at: 2018-08-27 23:57:09

Local clock offset: 0.86 ms

Remote clock offset: 4.09 ms

Below is generated by plot.py at 2018-08-28 00:36:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 31.252 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 31.252 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

