

Pantheon Report

Generated at 2018-03-27 08:23:32 (UTC).

Data path: Colombia Ethernet (*remote*) → AWS Brazil 2 Ethernet (*local*).

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

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

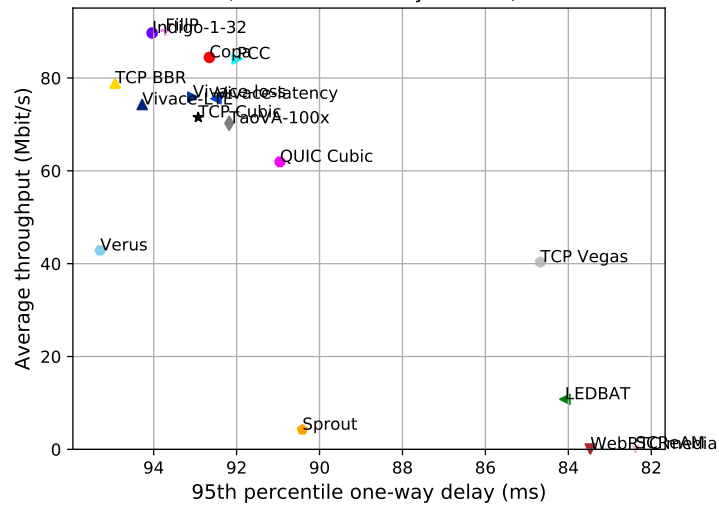
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

NTP offsets were measured against **gps.ntp.br** and have been applied to correct the timestamps in logs.

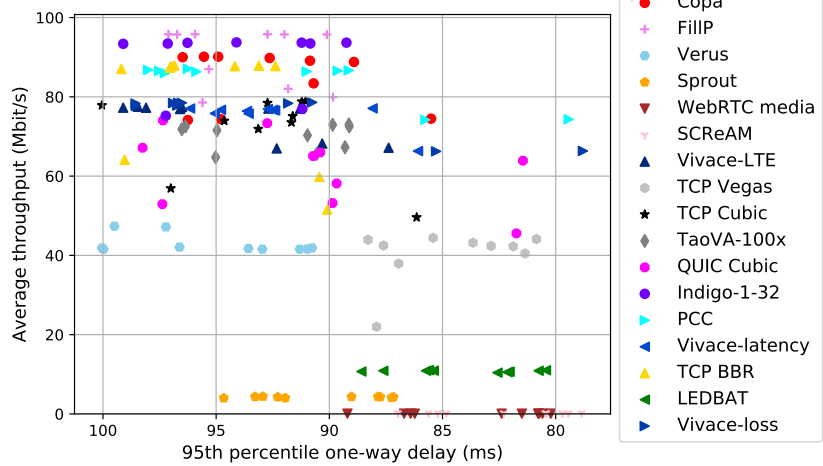
Git summary:

```
branch: master @ 503f51fe03f703a4c0a826a0792a4fead3e7d1b0
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5ce90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
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/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eae30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ f271183af822eee5d0031620f4bebf38aedc5581
```

test from Colombia Ethernet to AWS Brazil 2 Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from Colombia Ethernet to AWS Brazil 2 Ethernet, 10 runs of 30s each



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	78.88	94.93	1.81
TCP Cubic	10	71.51	92.93	0.65
LEDBAT	10	10.80	84.08	1.22
PCC	10	84.09	91.99	0.90
QUIC Cubic	10	61.93	90.95	0.94
SCReAM	10	0.22	82.38	0.63
WebRTC media	10	0.06	83.47	0.03
Sprout	10	4.23	90.41	0.60
TaoVA-100x	10	70.24	92.18	2.11
TCP Vegas	10	40.32	84.67	0.81
Verus	10	42.85	95.29	1.94
Copa	10	84.43	92.66	5.05
FillP	10	90.21	93.72	5.86
Indigo-1-32	9	89.69	94.04	3.18
Vivace-latency	10	75.53	92.50	0.92
Vivace-loss	10	75.88	93.06	1.03
Vivace-LTE	10	74.29	94.28	0.94

Run 1: Statistics of TCP BBR

Start at: 2018-03-27 00:39:41

End at: 2018-03-27 00:40:11

Local clock offset: -0.28 ms

Remote clock offset: 3.32 ms

Below is generated by plot.py at 2018-03-27 08:03:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.71 Mbit/s

95th percentile per-packet one-way delay: 96.972 ms

Loss rate: 0.71%

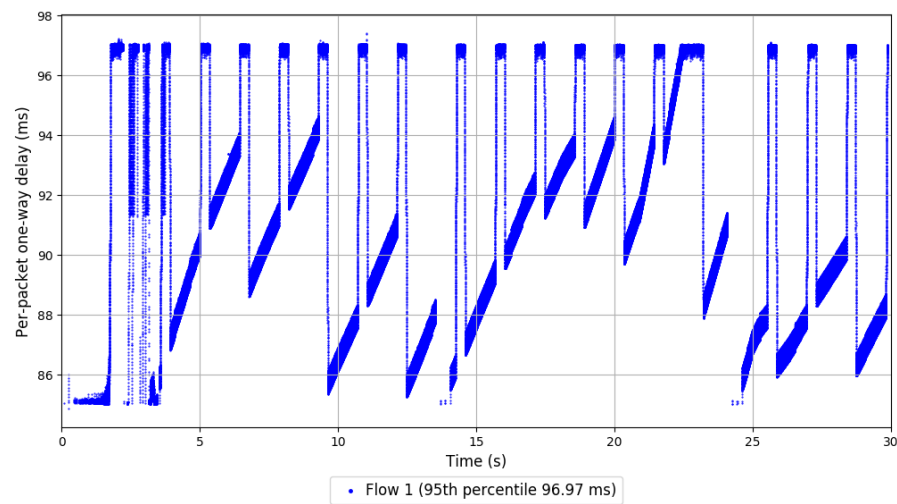
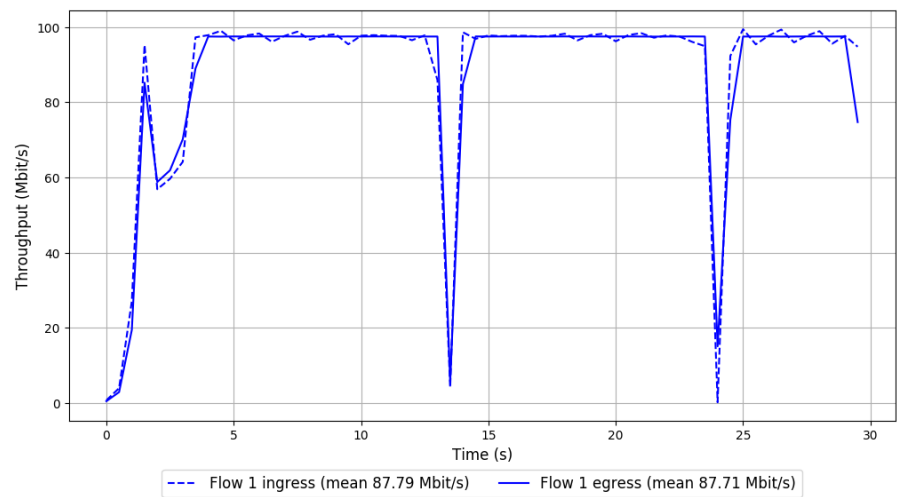
-- Flow 1:

Average throughput: 87.71 Mbit/s

95th percentile per-packet one-way delay: 96.972 ms

Loss rate: 0.71%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-03-27 01:02:01

End at: 2018-03-27 01:02:31

Local clock offset: -1.776 ms

Remote clock offset: 9.374 ms

Below is generated by plot.py at 2018-03-27 08:03:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.80 Mbit/s

95th percentile per-packet one-way delay: 90.440 ms

Loss rate: 6.25%

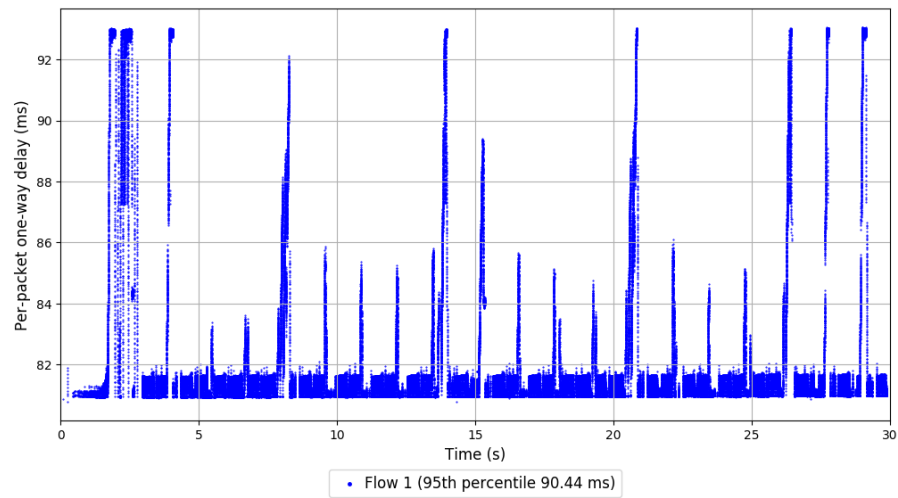
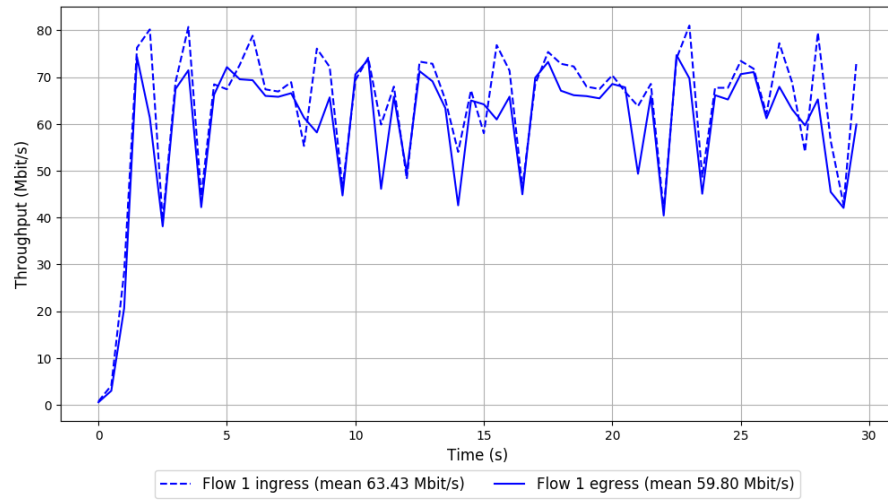
-- Flow 1:

Average throughput: 59.80 Mbit/s

95th percentile per-packet one-way delay: 90.440 ms

Loss rate: 6.25%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-03-27 01:24:14

End at: 2018-03-27 01:24:44

Local clock offset: -4.252 ms

Remote clock offset: 9.186 ms

Below is generated by plot.py at 2018-03-27 08:03:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.56 Mbit/s

95th percentile per-packet one-way delay: 90.090 ms

Loss rate: 6.80%

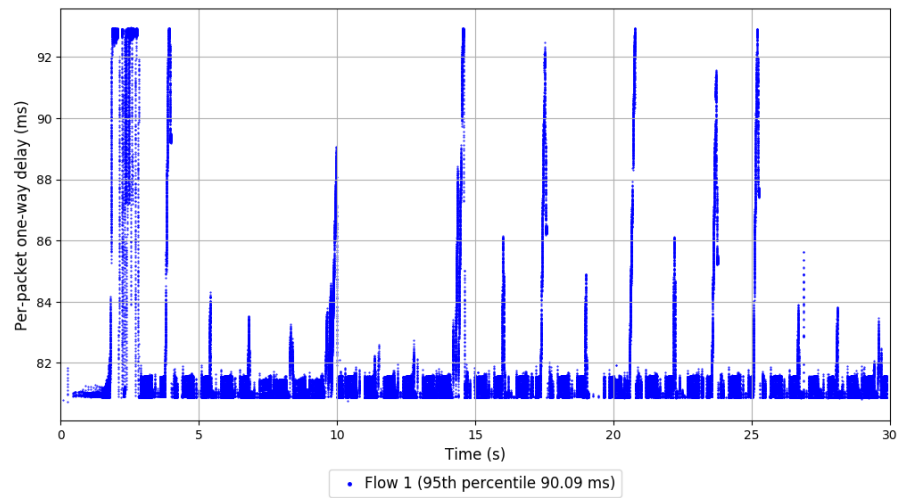
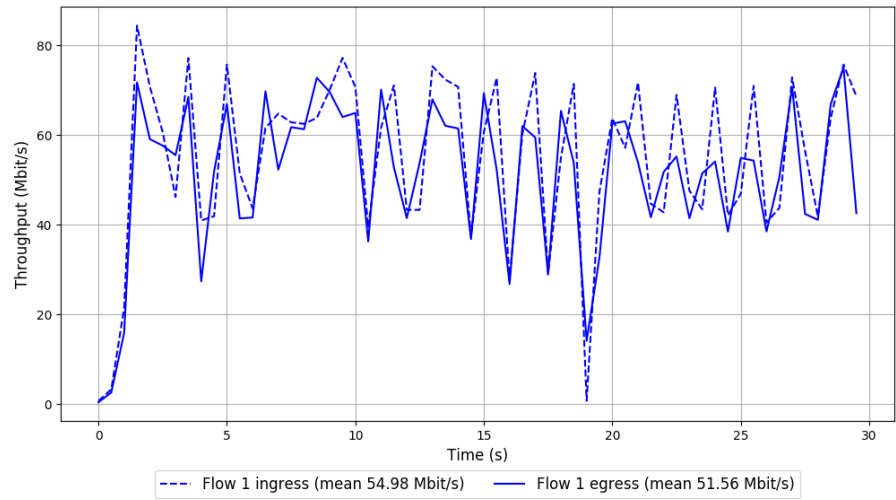
-- Flow 1:

Average throughput: 51.56 Mbit/s

95th percentile per-packet one-way delay: 90.090 ms

Loss rate: 6.80%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-03-27 01:46:30

End at: 2018-03-27 01:47:00

Local clock offset: -4.231 ms

Remote clock offset: 3.16 ms

Below is generated by plot.py at 2018-03-27 08:03:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.35 Mbit/s

95th percentile per-packet one-way delay: 97.041 ms

Loss rate: 0.71%

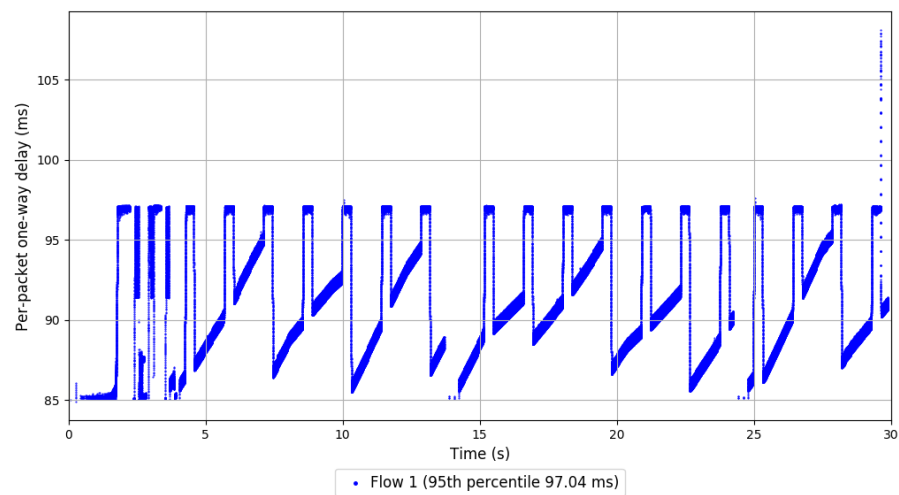
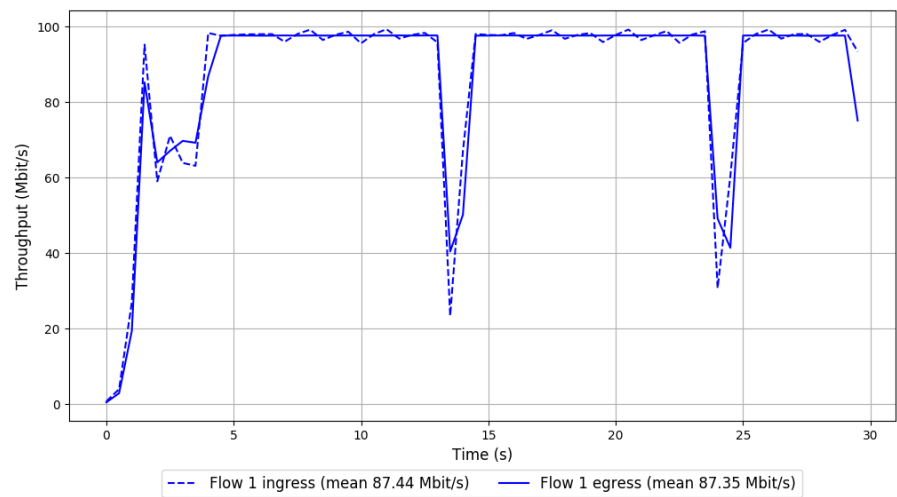
-- Flow 1:

Average throughput: 87.35 Mbit/s

95th percentile per-packet one-way delay: 97.041 ms

Loss rate: 0.71%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-03-27 02:08:43

End at: 2018-03-27 02:09:13

Local clock offset: -4.233 ms

Remote clock offset: 8.68 ms

Below is generated by plot.py at 2018-03-27 08:03:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.85 Mbit/s

95th percentile per-packet one-way delay: 93.113 ms

Loss rate: 0.71%

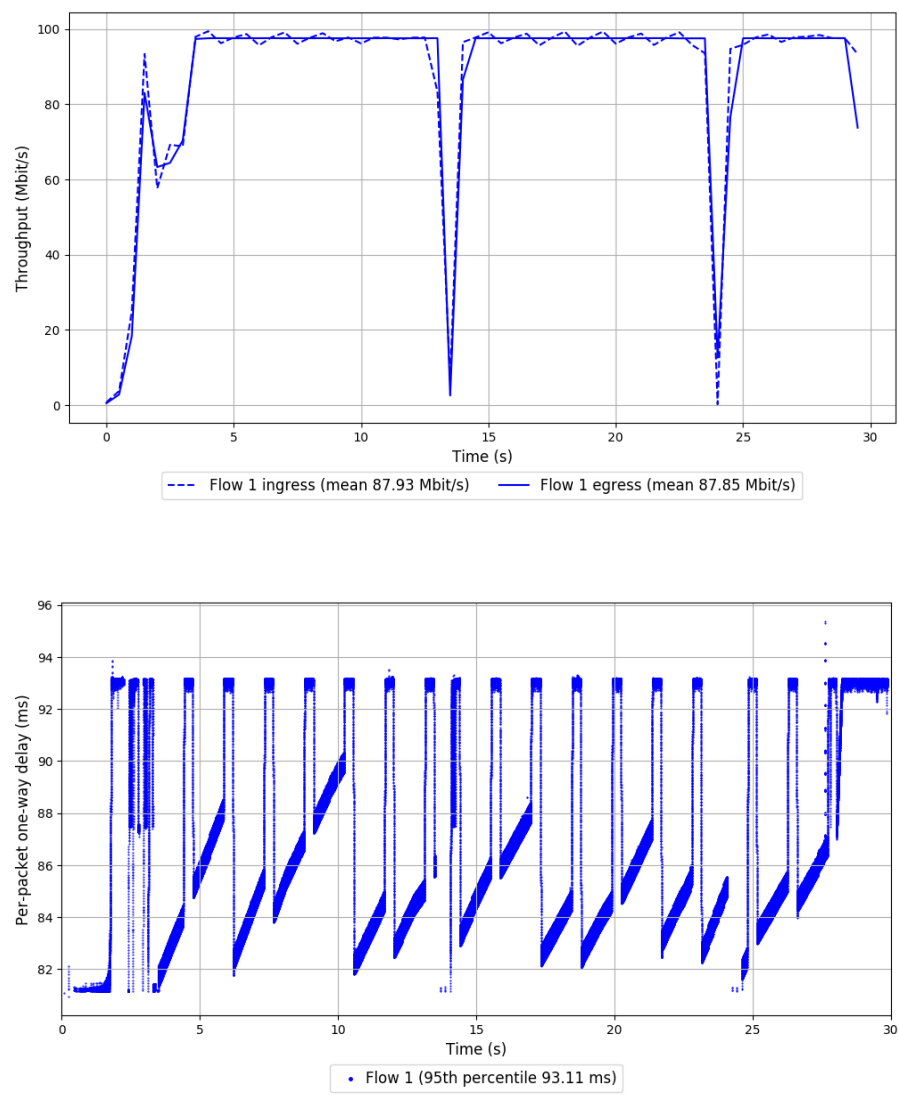
-- Flow 1:

Average throughput: 87.85 Mbit/s

95th percentile per-packet one-way delay: 93.113 ms

Loss rate: 0.71%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-03-27 02:30:58

End at: 2018-03-27 02:31:28

Local clock offset: -4.569 ms

Remote clock offset: 2.7 ms

Below is generated by plot.py at 2018-03-27 08:03:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.90 Mbit/s

95th percentile per-packet one-way delay: 96.846 ms

Loss rate: 0.72%

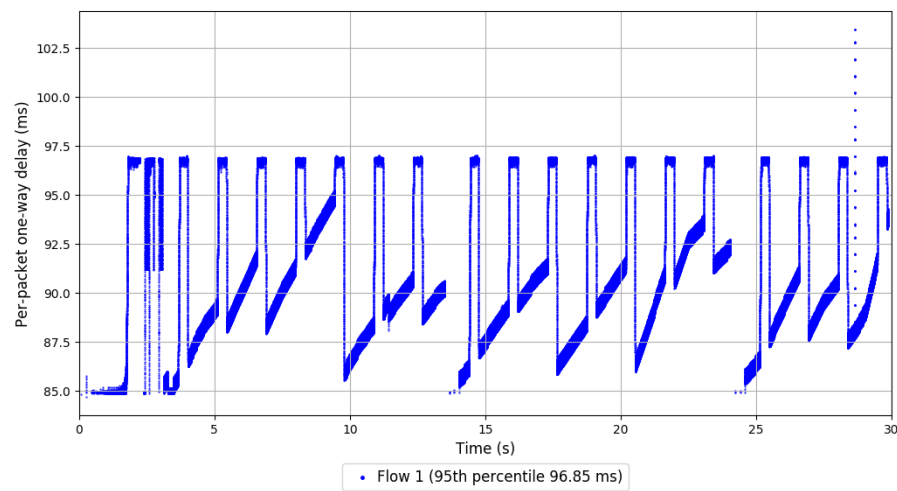
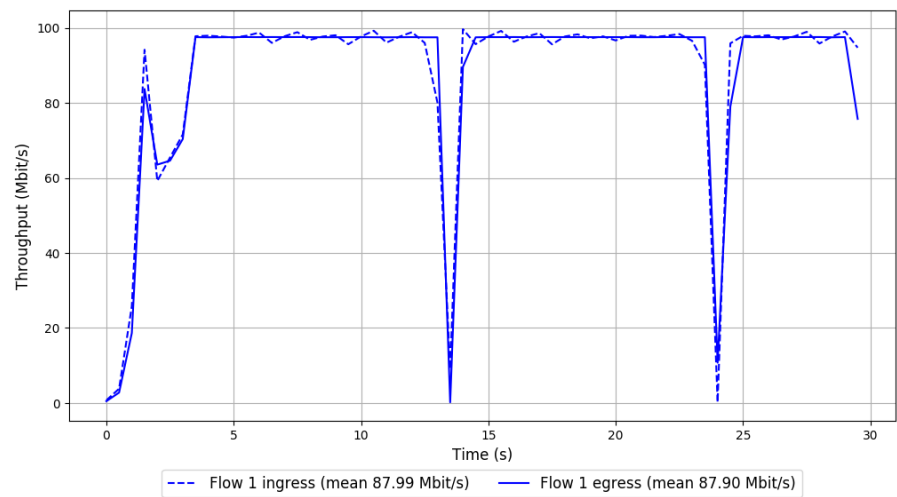
-- Flow 1:

Average throughput: 87.90 Mbit/s

95th percentile per-packet one-way delay: 96.846 ms

Loss rate: 0.72%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-03-27 02:53:11

End at: 2018-03-27 02:53:41

Local clock offset: -5.512 ms

Remote clock offset: 2.63 ms

Below is generated by plot.py at 2018-03-27 08:03:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.12 Mbit/s

95th percentile per-packet one-way delay: 99.045 ms

Loss rate: 0.00%

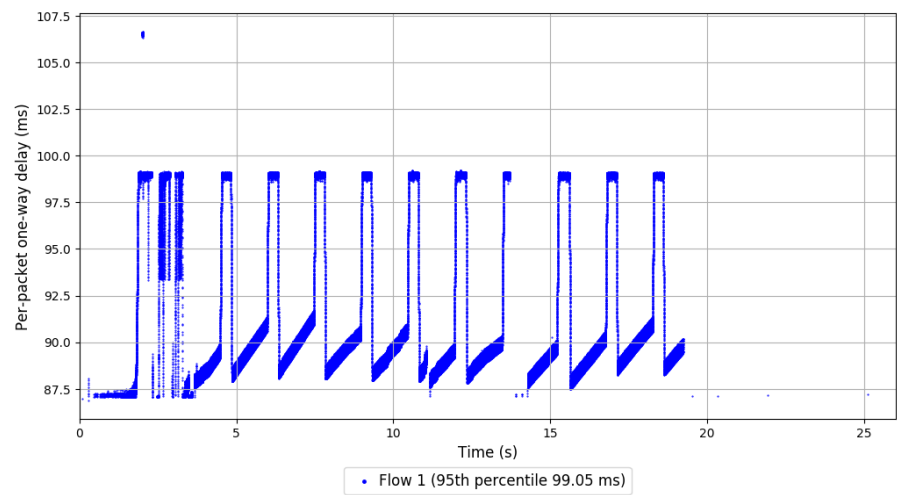
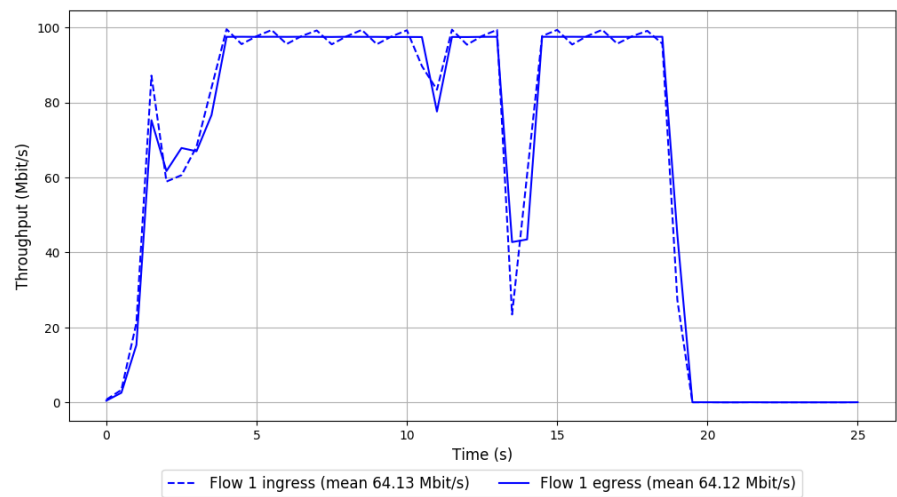
-- Flow 1:

Average throughput: 64.12 Mbit/s

95th percentile per-packet one-way delay: 99.045 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-03-27 03:15:44

End at: 2018-03-27 03:16:14

Local clock offset: -6.065 ms

Remote clock offset: 8.628 ms

Below is generated by plot.py at 2018-03-27 08:03:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.76 Mbit/s

95th percentile per-packet one-way delay: 92.380 ms

Loss rate: 0.72%

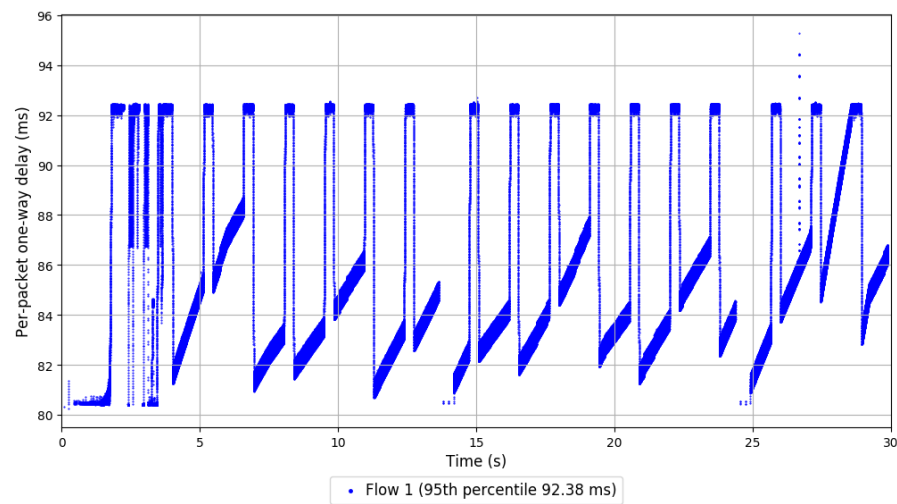
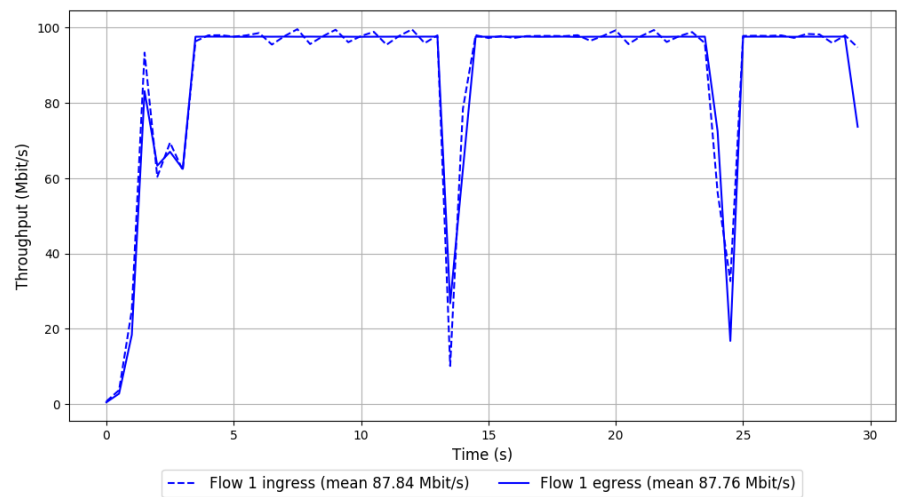
-- Flow 1:

Average throughput: 87.76 Mbit/s

95th percentile per-packet one-way delay: 92.380 ms

Loss rate: 0.72%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-03-27 03:38:05

End at: 2018-03-27 03:38:35

Local clock offset: -6.308 ms

Remote clock offset: 3.347 ms

Below is generated by plot.py at 2018-03-27 08:04:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.04 Mbit/s

95th percentile per-packet one-way delay: 99.188 ms

Loss rate: 0.74%

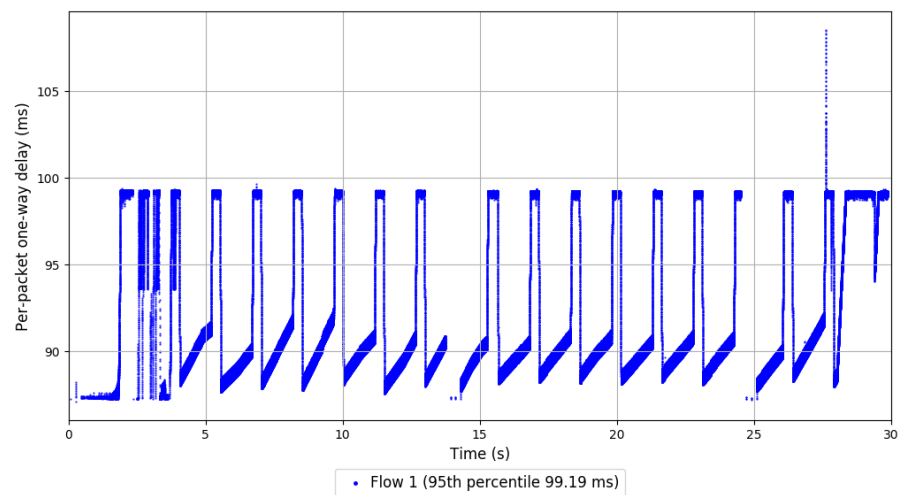
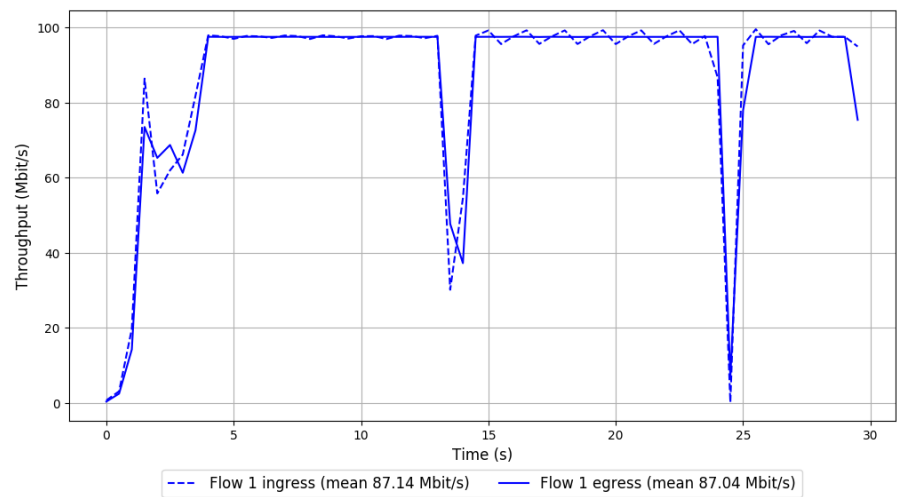
-- Flow 1:

Average throughput: 87.04 Mbit/s

95th percentile per-packet one-way delay: 99.188 ms

Loss rate: 0.74%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-03-27 04:00:18

End at: 2018-03-27 04:00:48

Local clock offset: -4.75 ms

Remote clock offset: 8.705 ms

Below is generated by plot.py at 2018-03-27 08:04:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.73 Mbit/s

95th percentile per-packet one-way delay: 94.175 ms

Loss rate: 0.71%

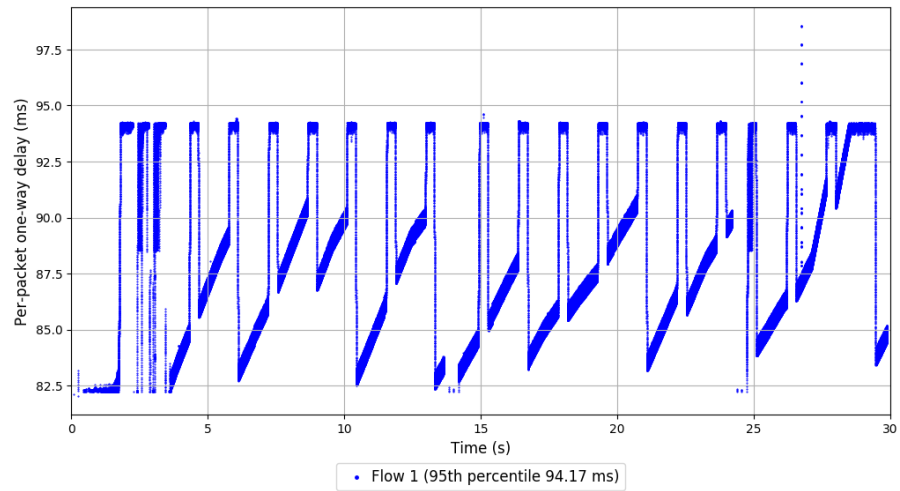
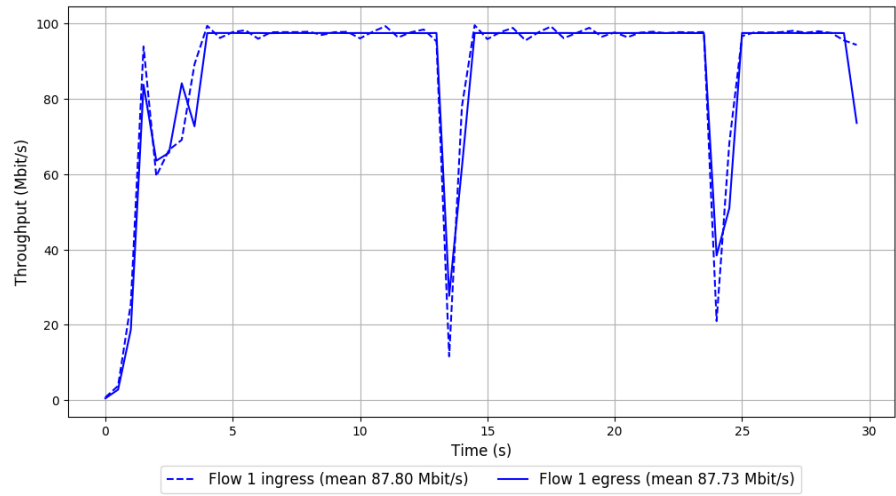
-- Flow 1:

Average throughput: 87.73 Mbit/s

95th percentile per-packet one-way delay: 94.175 ms

Loss rate: 0.71%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-03-27 00:42:12

End at: 2018-03-27 00:42:42

Local clock offset: -0.116 ms

Remote clock offset: 8.823 ms

Below is generated by plot.py at 2018-03-27 08:04:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.55 Mbit/s

95th percentile per-packet one-way delay: 91.674 ms

Loss rate: 0.50%

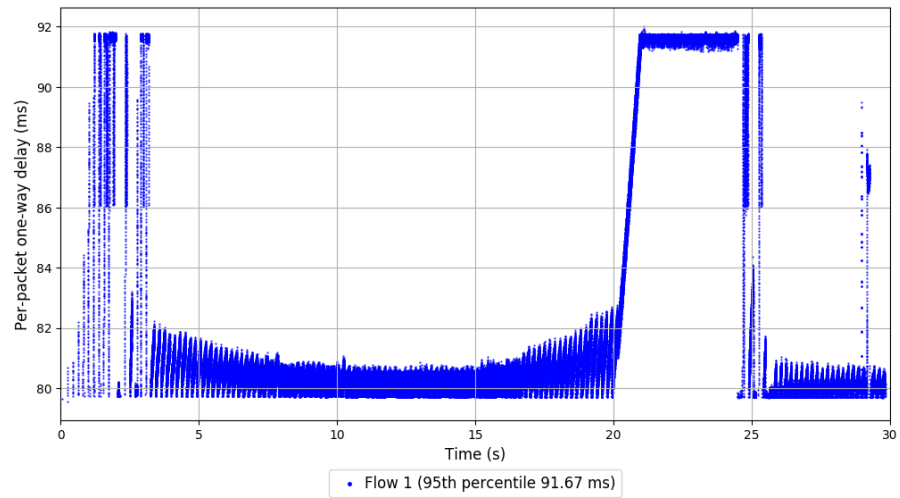
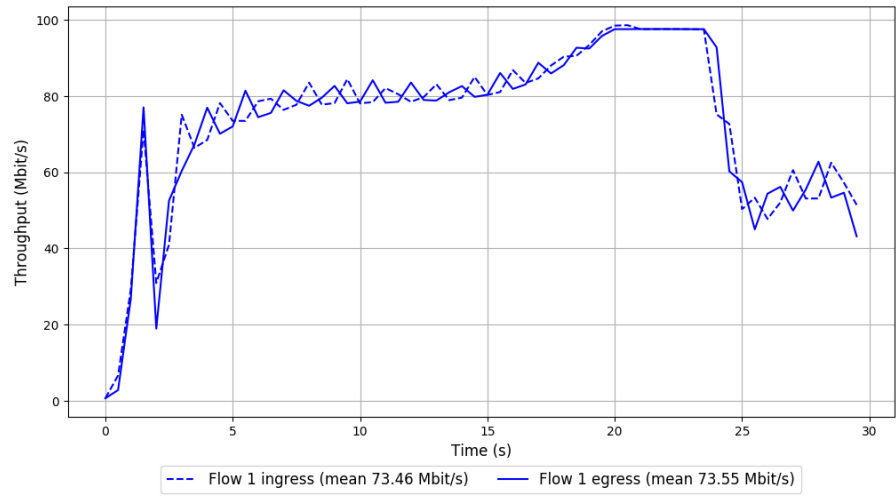
-- Flow 1:

Average throughput: 73.55 Mbit/s

95th percentile per-packet one-way delay: 91.674 ms

Loss rate: 0.50%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-03-27 01:04:32

End at: 2018-03-27 01:05:02

Local clock offset: -3.686 ms

Remote clock offset: 3.446 ms

Below is generated by plot.py at 2018-03-27 08:04:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.60 Mbit/s

95th percentile per-packet one-way delay: 86.142 ms

Loss rate: 0.97%

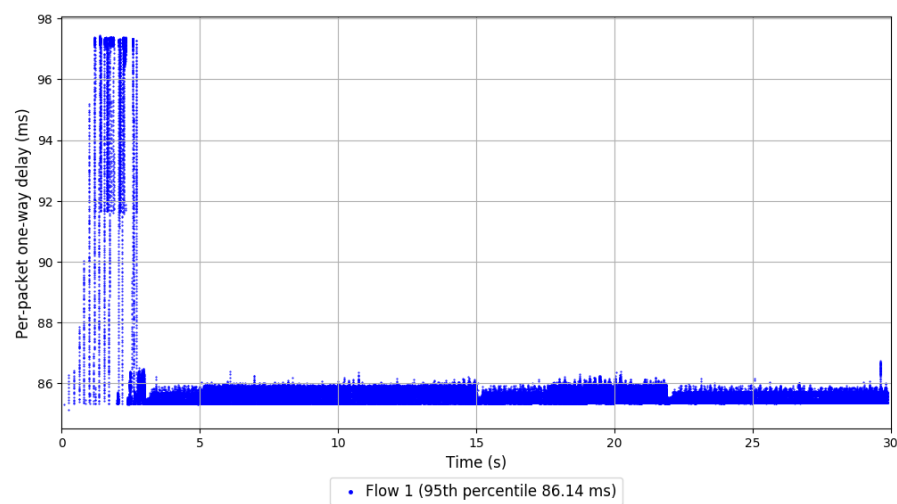
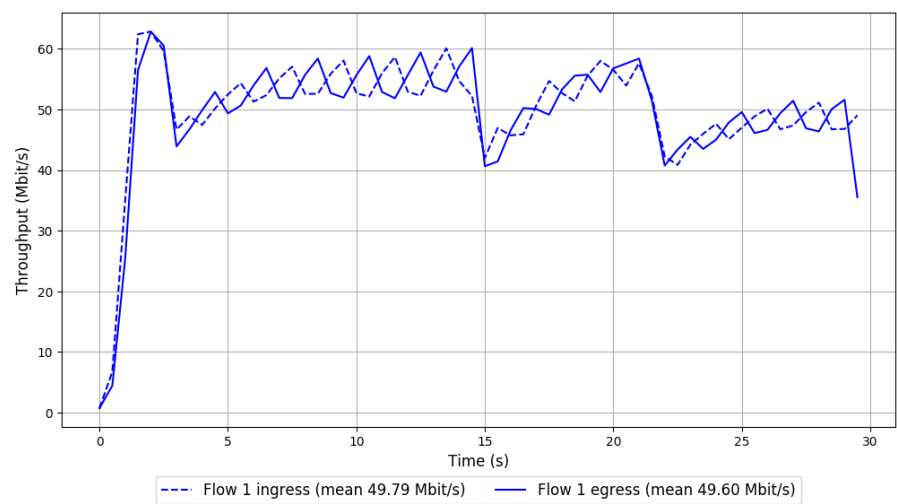
-- Flow 1:

Average throughput: 49.60 Mbit/s

95th percentile per-packet one-way delay: 86.142 ms

Loss rate: 0.97%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-03-27 01:26:45

End at: 2018-03-27 01:27:15

Local clock offset: -4.22 ms

Remote clock offset: 3.229 ms

Below is generated by plot.py at 2018-03-27 08:04:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.90 Mbit/s

95th percentile per-packet one-way delay: 97.003 ms

Loss rate: 1.15%

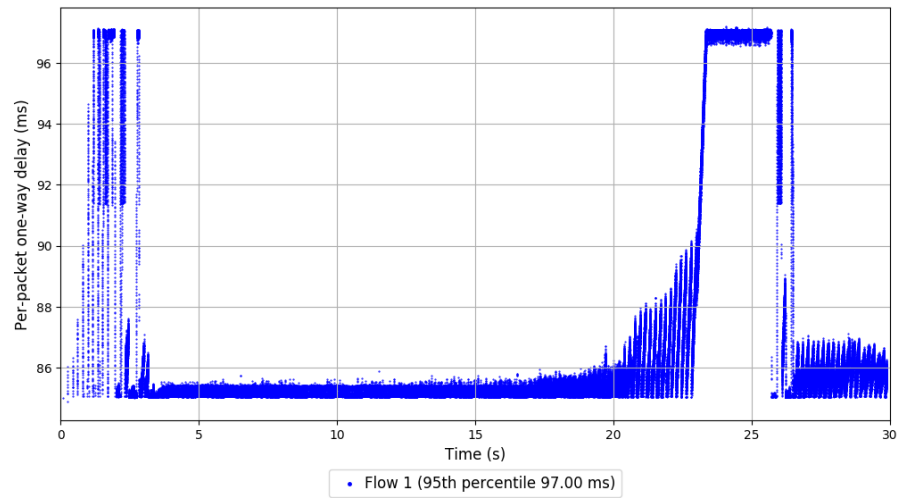
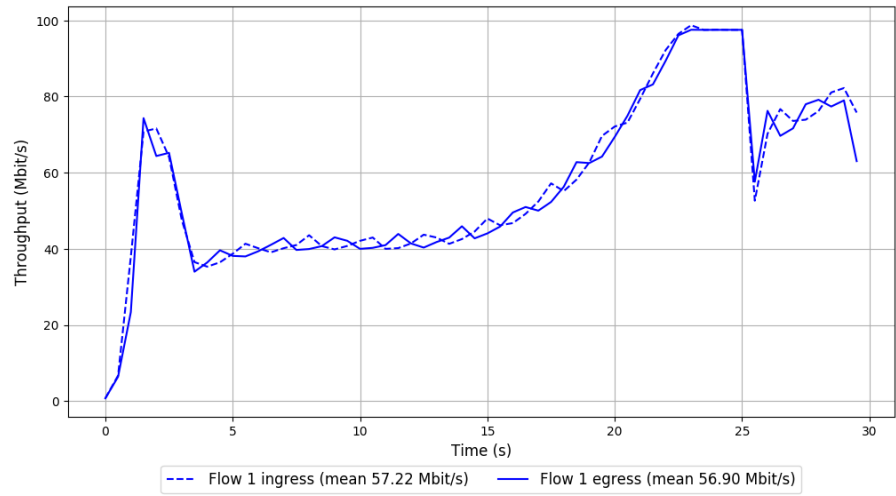
-- Flow 1:

Average throughput: 56.90 Mbit/s

95th percentile per-packet one-way delay: 97.003 ms

Loss rate: 1.15%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-03-27 01:49:01

End at: 2018-03-27 01:49:31

Local clock offset: -4.277 ms

Remote clock offset: 8.853 ms

Below is generated by plot.py at 2018-03-27 08:04:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.81 Mbit/s

95th percentile per-packet one-way delay: 91.217 ms

Loss rate: 0.64%

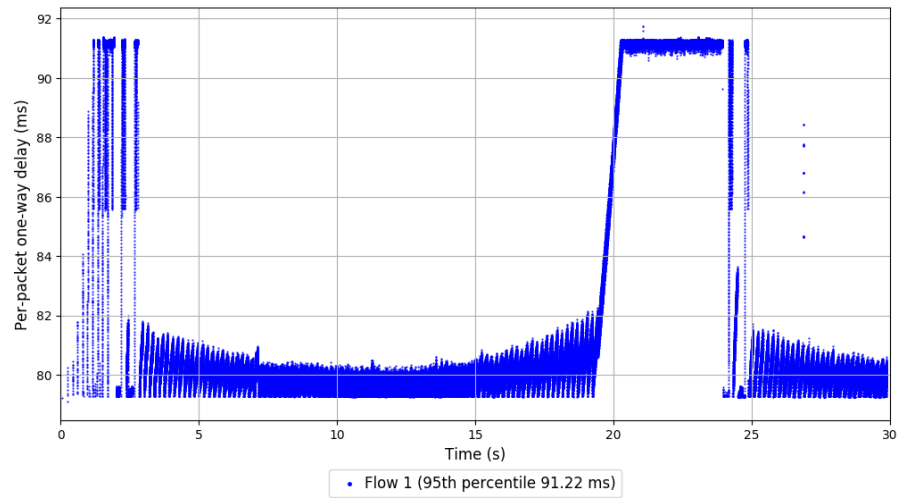
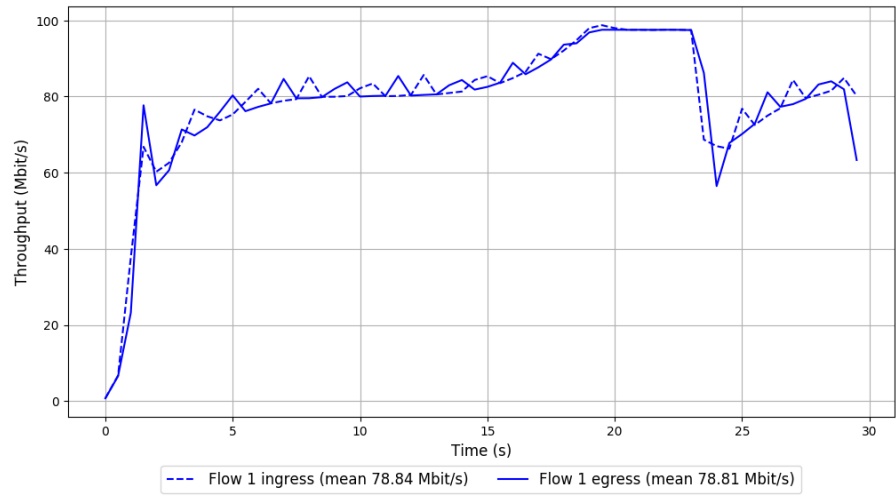
-- Flow 1:

Average throughput: 78.81 Mbit/s

95th percentile per-packet one-way delay: 91.217 ms

Loss rate: 0.64%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-03-27 02:11:14

End at: 2018-03-27 02:11:44

Local clock offset: -4.221 ms

Remote clock offset: 8.633 ms

Below is generated by plot.py at 2018-03-27 08:04:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.91 Mbit/s

95th percentile per-packet one-way delay: 93.136 ms

Loss rate: 0.38%

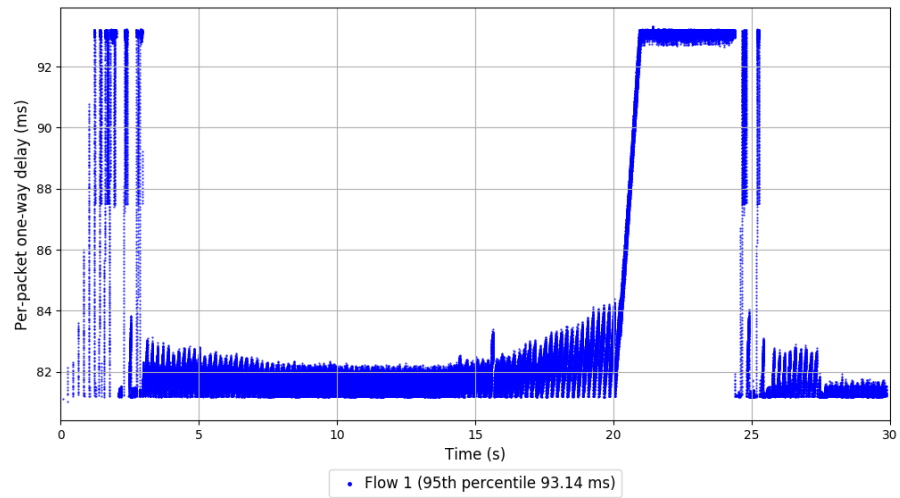
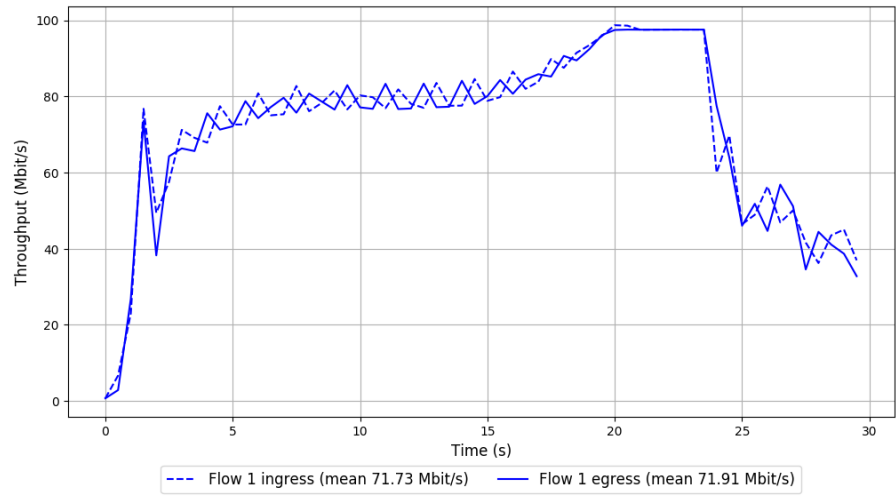
-- Flow 1:

Average throughput: 71.91 Mbit/s

95th percentile per-packet one-way delay: 93.136 ms

Loss rate: 0.38%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-03-27 02:33:29

End at: 2018-03-27 02:33:59

Local clock offset: -4.827 ms

Remote clock offset: 8.646 ms

Below is generated by plot.py at 2018-03-27 08:05:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.91 Mbit/s

95th percentile per-packet one-way delay: 91.052 ms

Loss rate: 0.63%

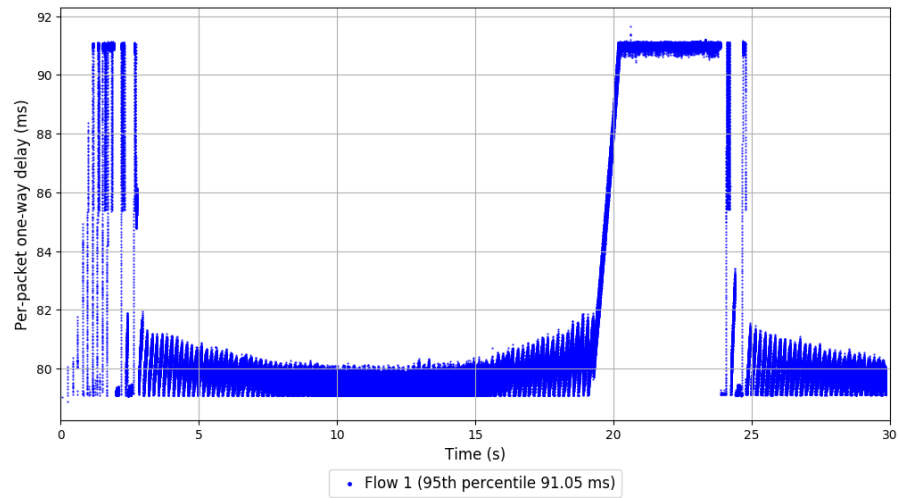
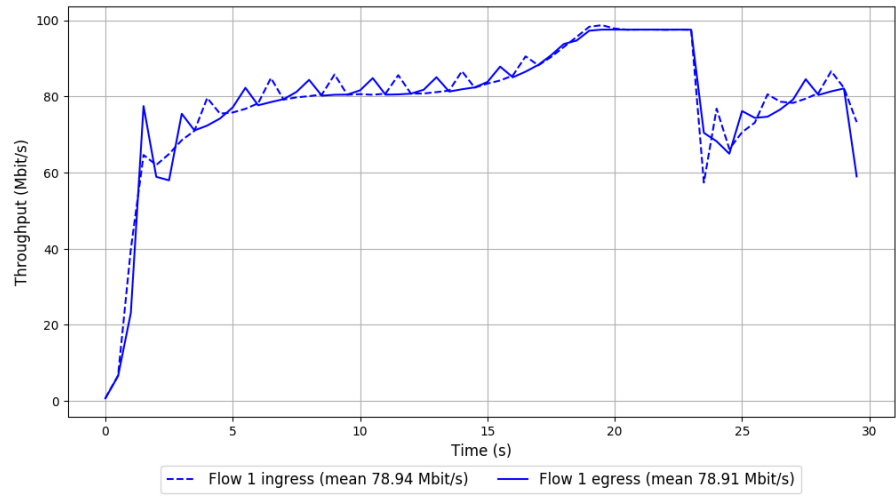
-- Flow 1:

Average throughput: 78.91 Mbit/s

95th percentile per-packet one-way delay: 91.052 ms

Loss rate: 0.63%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-03-27 02:55:59

End at: 2018-03-27 02:56:29

Local clock offset: -5.675 ms

Remote clock offset: 7.933 ms

Below is generated by plot.py at 2018-03-27 08:05:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.46 Mbit/s

95th percentile per-packet one-way delay: 92.730 ms

Loss rate: 0.64%

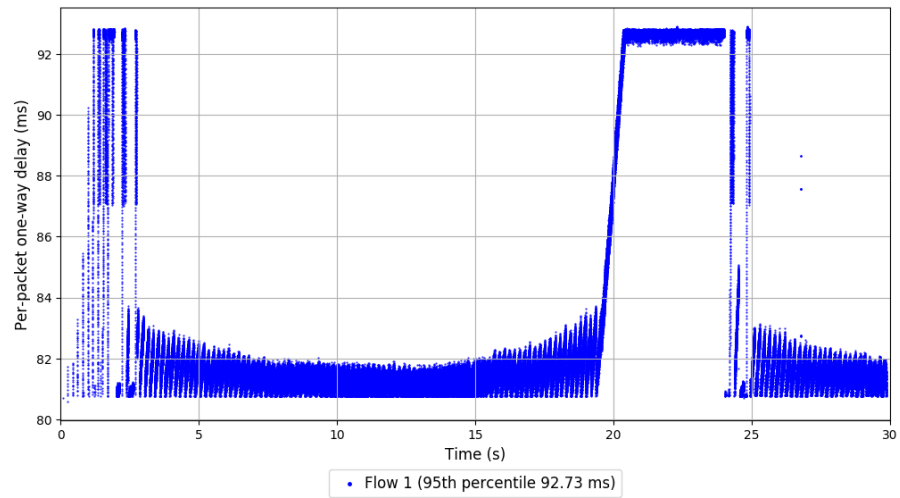
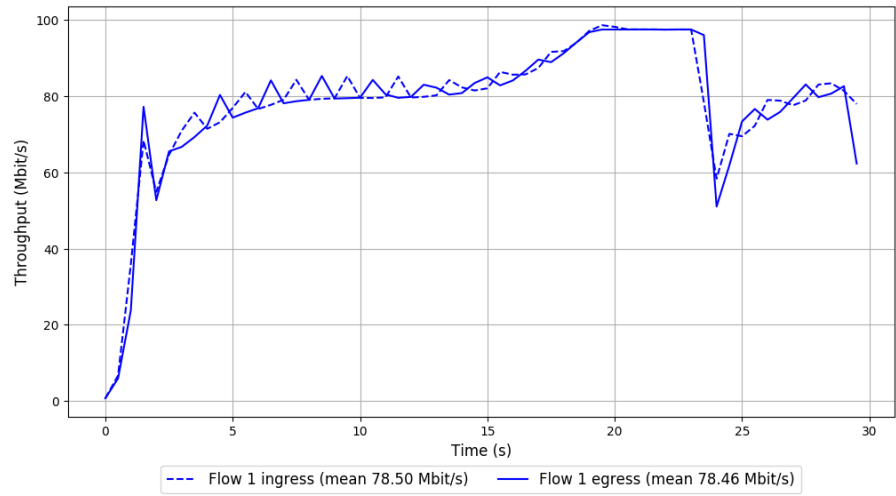
-- Flow 1:

Average throughput: 78.46 Mbit/s

95th percentile per-packet one-way delay: 92.730 ms

Loss rate: 0.64%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-03-27 03:18:15

End at: 2018-03-27 03:18:45

Local clock offset: -6.153 ms

Remote clock offset: 8.075 ms

Below is generated by plot.py at 2018-03-27 08:05:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.12 Mbit/s

95th percentile per-packet one-way delay: 91.617 ms

Loss rate: 0.42%

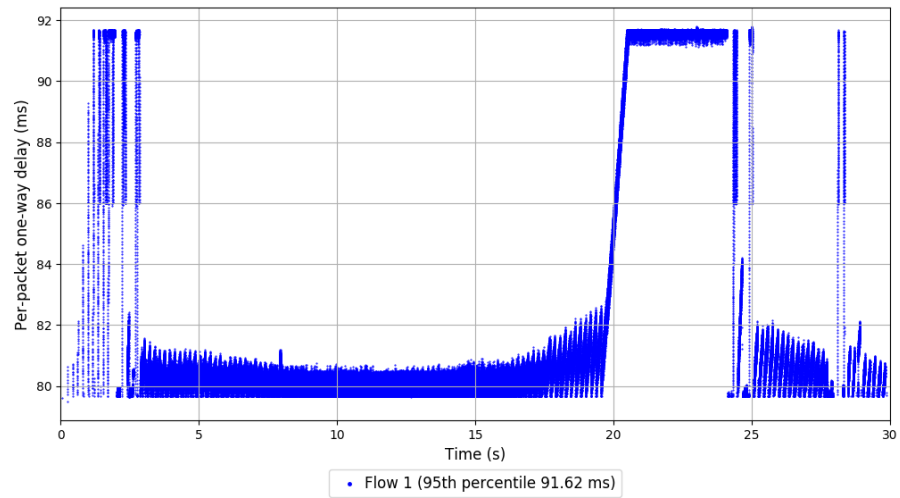
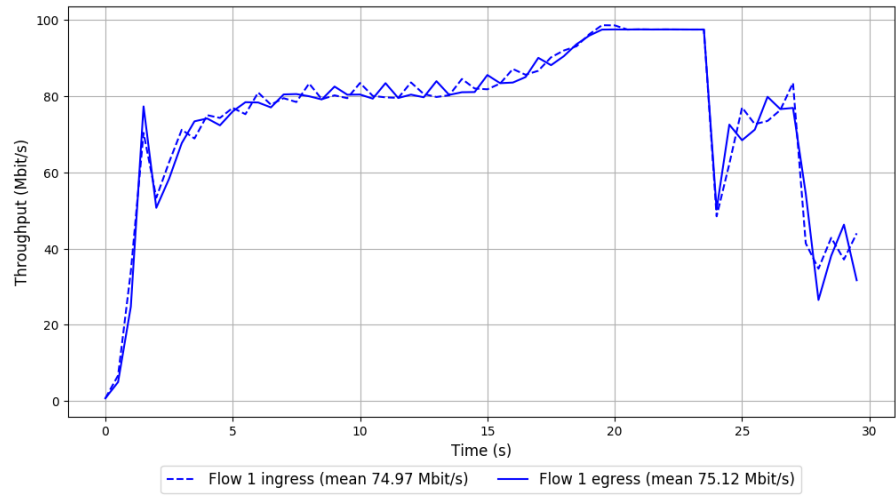
-- Flow 1:

Average throughput: 75.12 Mbit/s

95th percentile per-packet one-way delay: 91.617 ms

Loss rate: 0.42%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-03-27 03:40:36

End at: 2018-03-27 03:41:06

Local clock offset: -5.912 ms

Remote clock offset: 8.122 ms

Below is generated by plot.py at 2018-03-27 08:05:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.95 Mbit/s

95th percentile per-packet one-way delay: 94.641 ms

Loss rate: 0.49%

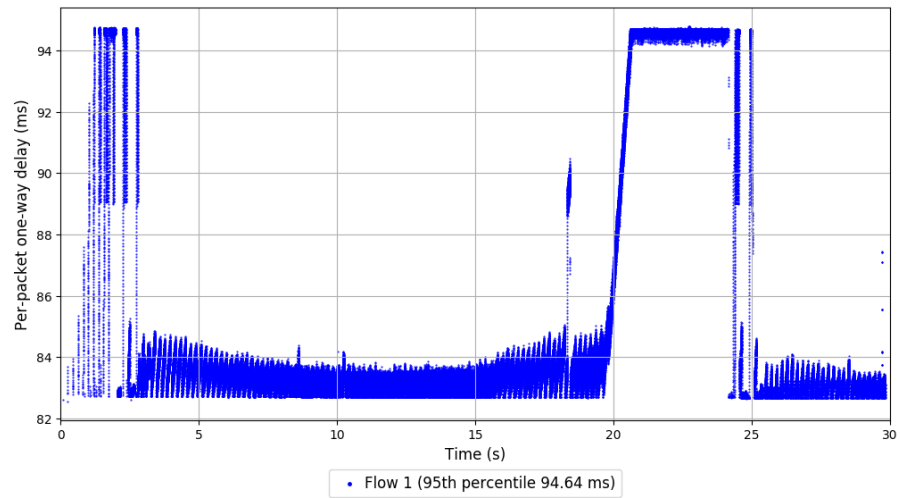
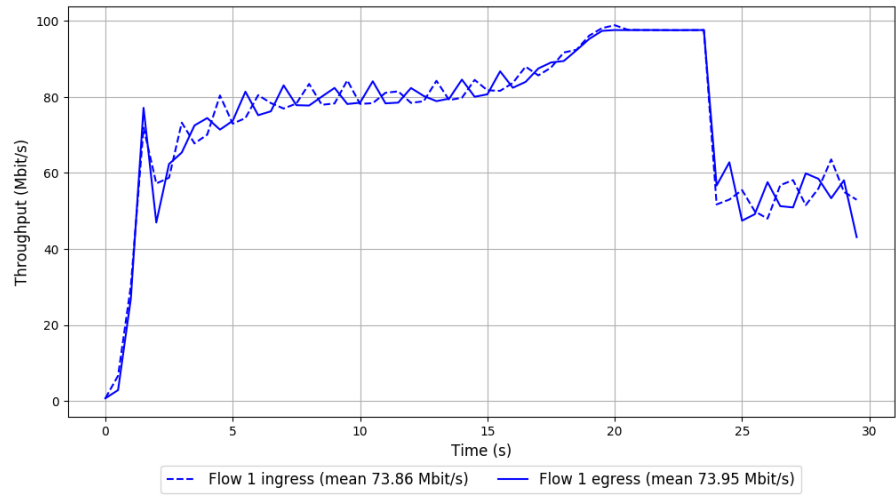
-- Flow 1:

Average throughput: 73.95 Mbit/s

95th percentile per-packet one-way delay: 94.641 ms

Loss rate: 0.49%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-03-27 04:02:49

End at: 2018-03-27 04:03:19

Local clock offset: -4.698 ms

Remote clock offset: 2.529 ms

Below is generated by plot.py at 2018-03-27 08:05:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.87 Mbit/s

95th percentile per-packet one-way delay: 100.045 ms

Loss rate: 0.64%

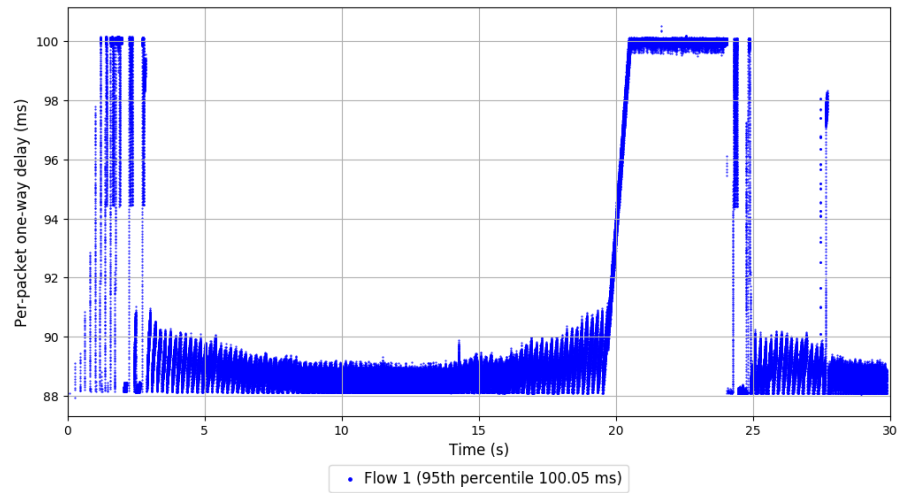
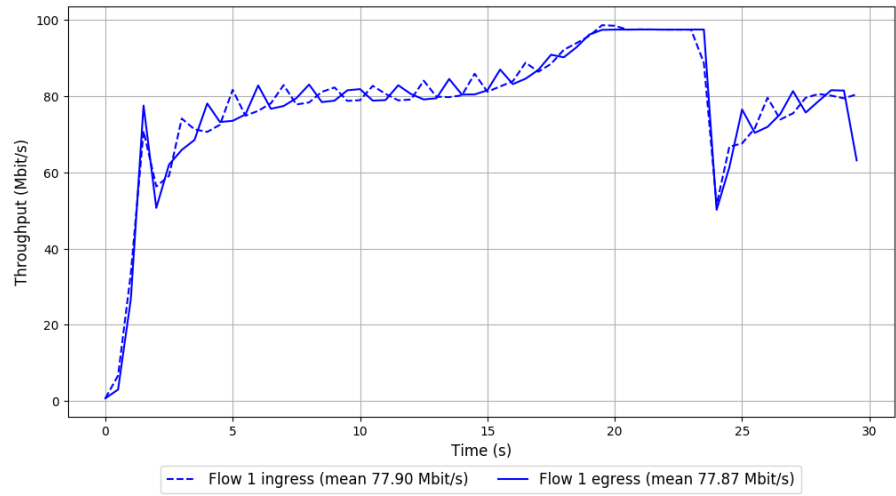
-- Flow 1:

Average throughput: 77.87 Mbit/s

95th percentile per-packet one-way delay: 100.045 ms

Loss rate: 0.64%

Run 10: Report of TCP Cubic — Data Link

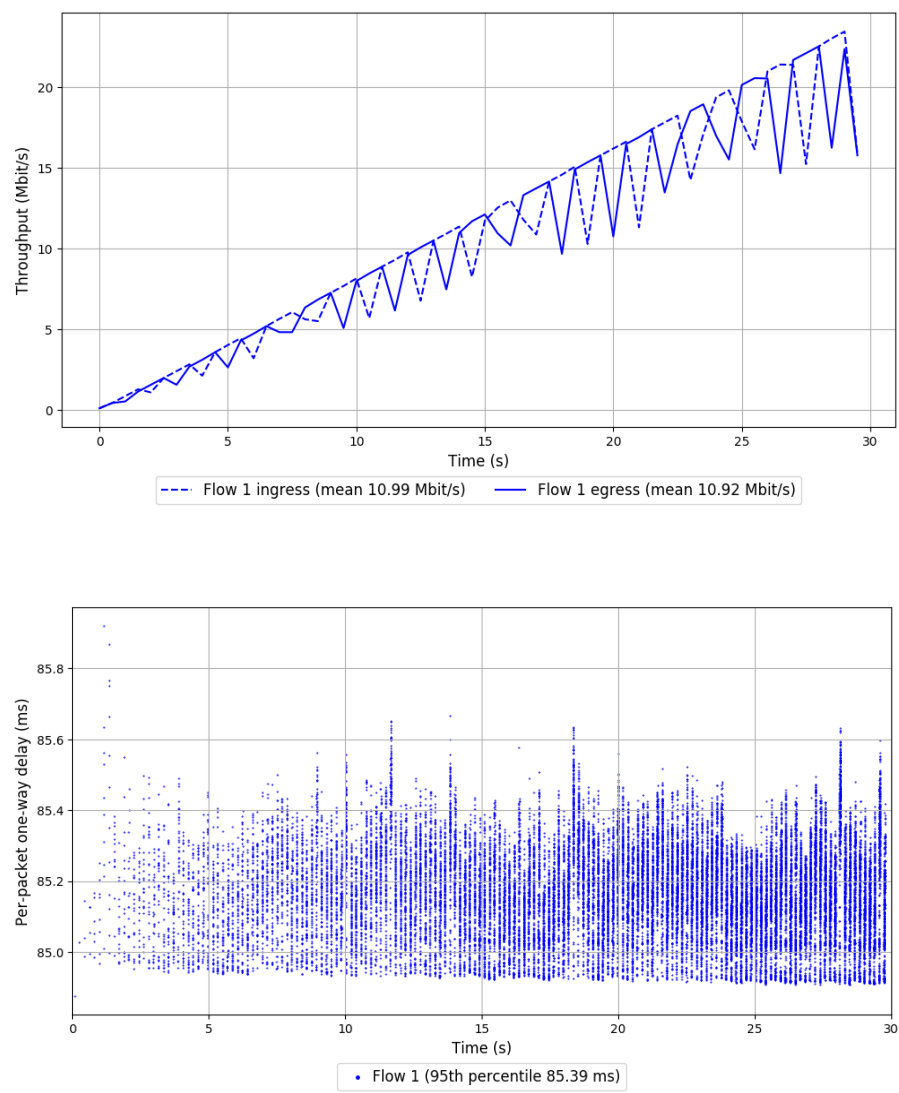


```
Run 1: Statistics of LEDBAT

Start at: 2018-03-27 00:38:29
End at: 2018-03-27 00:38:59
Local clock offset: -0.282 ms
Remote clock offset: 3.294 ms

# Below is generated by plot.py at 2018-03-27 08:05:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.92 Mbit/s
95th percentile per-packet one-way delay: 85.386 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 10.92 Mbit/s
95th percentile per-packet one-way delay: 85.386 ms
Loss rate: 1.21%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-03-27 01:00:49

End at: 2018-03-27 01:01:19

Local clock offset: -3.444 ms

Remote clock offset: 8.724 ms

Below is generated by plot.py at 2018-03-27 08:05:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.02 Mbit/s

95th percentile per-packet one-way delay: 80.430 ms

Loss rate: 1.20%

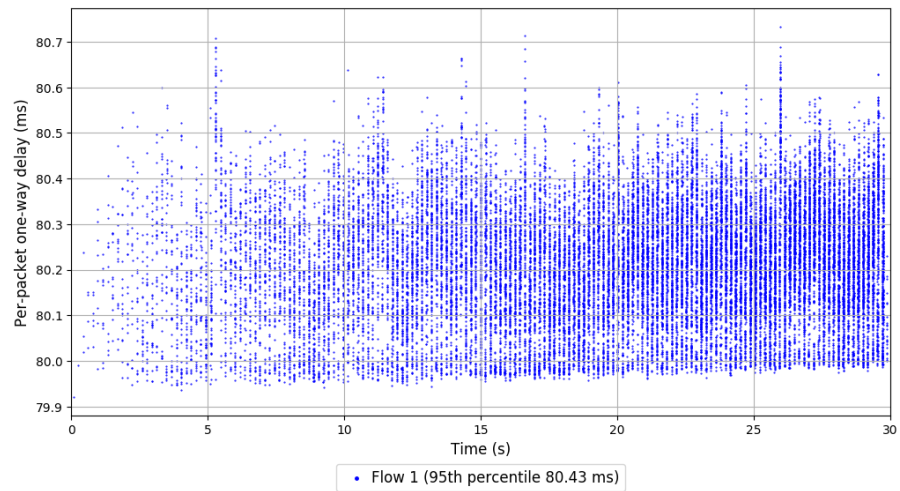
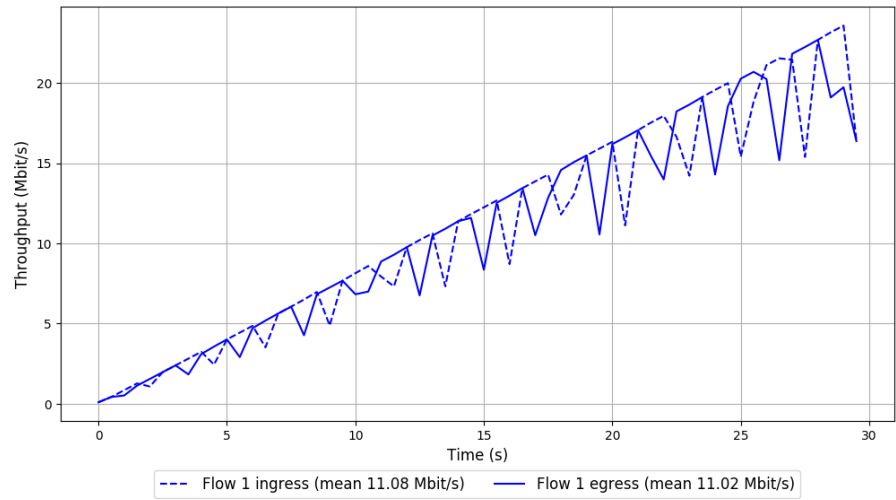
-- Flow 1:

Average throughput: 11.02 Mbit/s

95th percentile per-packet one-way delay: 80.430 ms

Loss rate: 1.20%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-03-27 01:23:03

End at: 2018-03-27 01:23:33

Local clock offset: -4.265 ms

Remote clock offset: 3.233 ms

Below is generated by plot.py at 2018-03-27 08:05:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.89 Mbit/s

95th percentile per-packet one-way delay: 85.726 ms

Loss rate: 1.21%

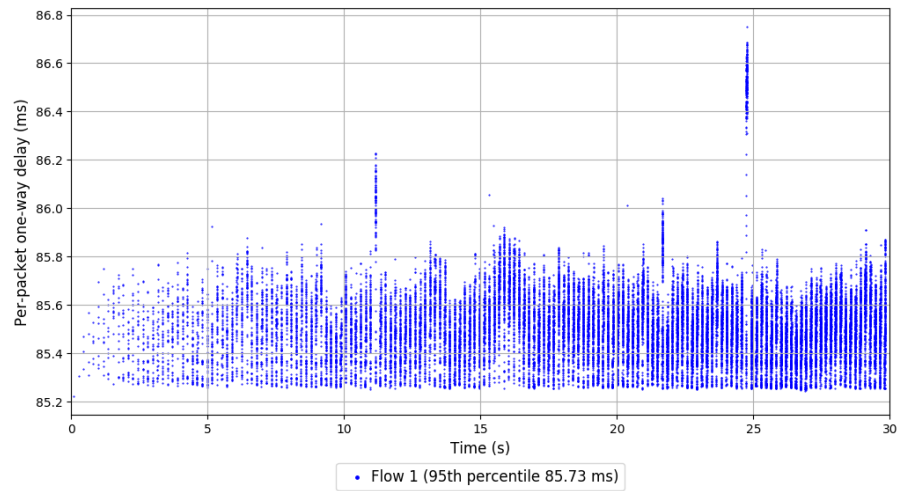
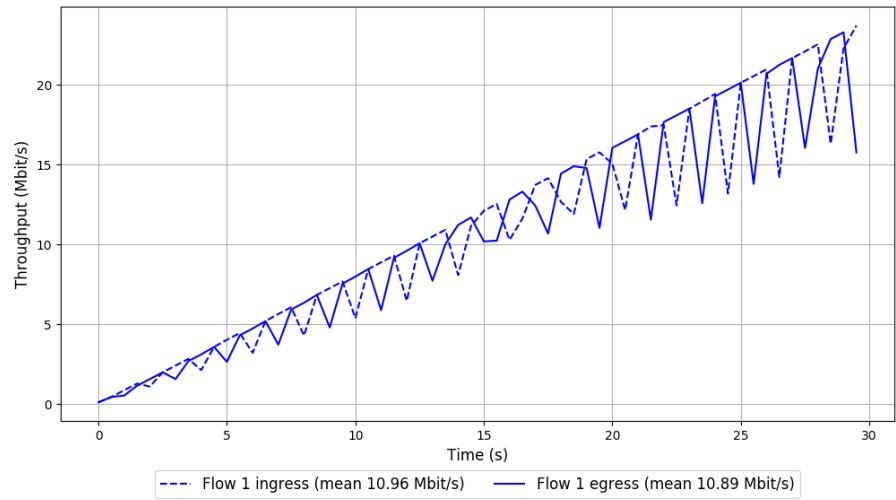
-- Flow 1:

Average throughput: 10.89 Mbit/s

95th percentile per-packet one-way delay: 85.726 ms

Loss rate: 1.21%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-03-27 01:45:18

End at: 2018-03-27 01:45:48

Local clock offset: -4.23 ms

Remote clock offset: 7.989 ms

Below is generated by plot.py at 2018-03-27 08:05:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.89 Mbit/s

95th percentile per-packet one-way delay: 80.756 ms

Loss rate: 1.21%

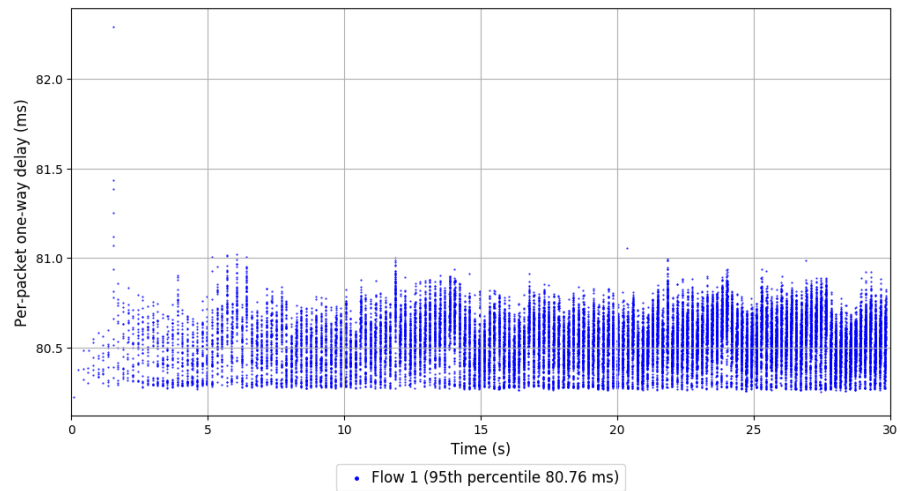
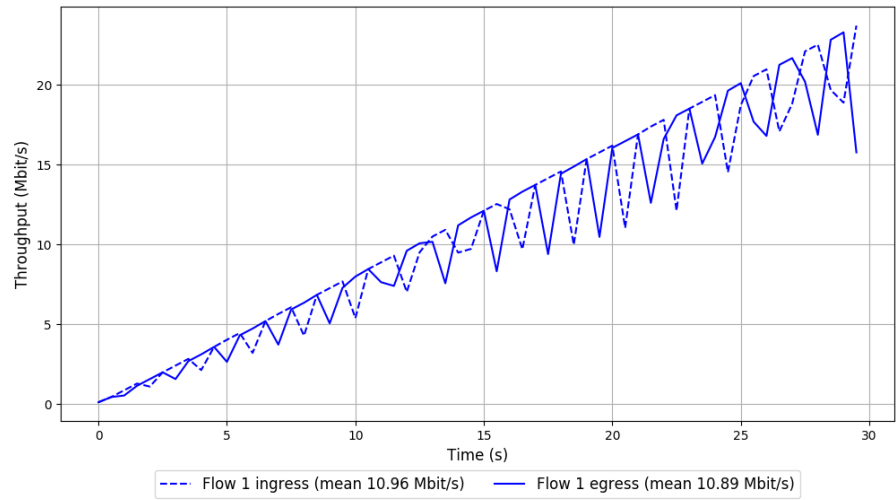
-- Flow 1:

Average throughput: 10.89 Mbit/s

95th percentile per-packet one-way delay: 80.756 ms

Loss rate: 1.21%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-03-27 02:07:31

End at: 2018-03-27 02:08:01

Local clock offset: -4.238 ms

Remote clock offset: 2.758 ms

Below is generated by plot.py at 2018-03-27 08:05:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.05 Mbit/s

95th percentile per-packet one-way delay: 85.597 ms

Loss rate: 1.20%

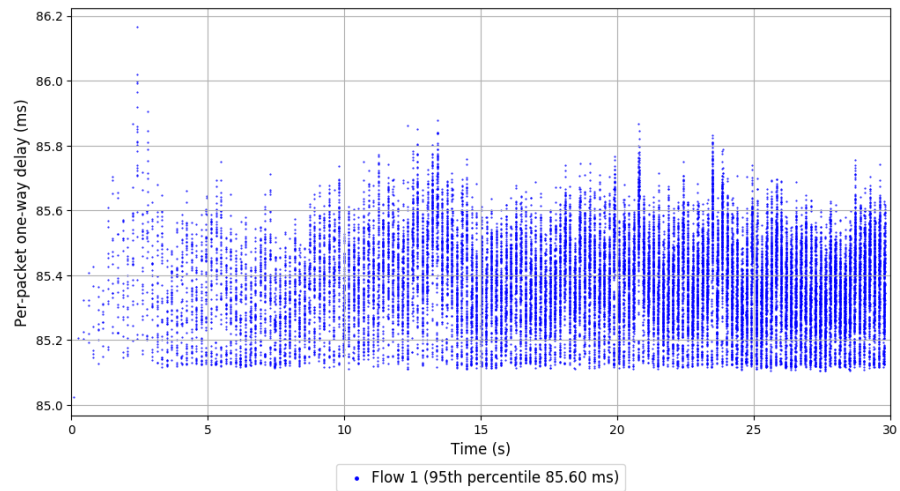
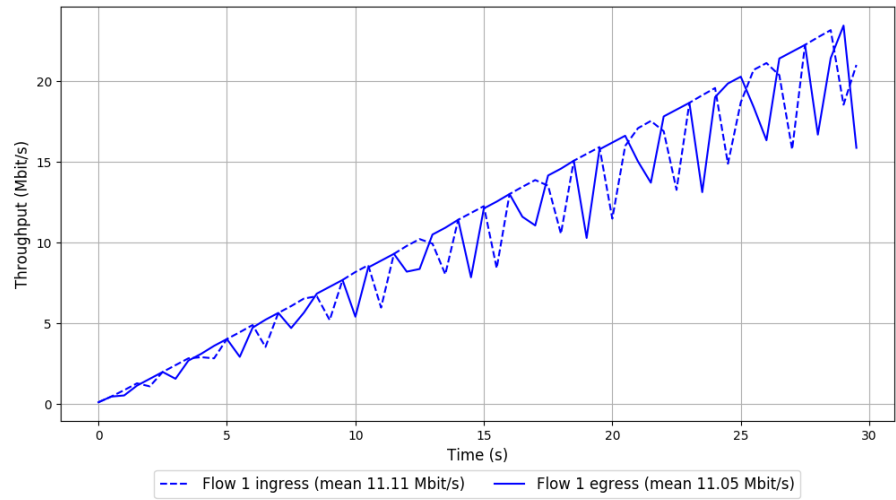
-- Flow 1:

Average throughput: 11.05 Mbit/s

95th percentile per-packet one-way delay: 85.597 ms

Loss rate: 1.20%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-03-27 02:29:46

End at: 2018-03-27 02:30:16

Local clock offset: -4.428 ms

Remote clock offset: 2.68 ms

Below is generated by plot.py at 2018-03-27 08:05:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.89 Mbit/s

95th percentile per-packet one-way delay: 87.615 ms

Loss rate: 1.21%

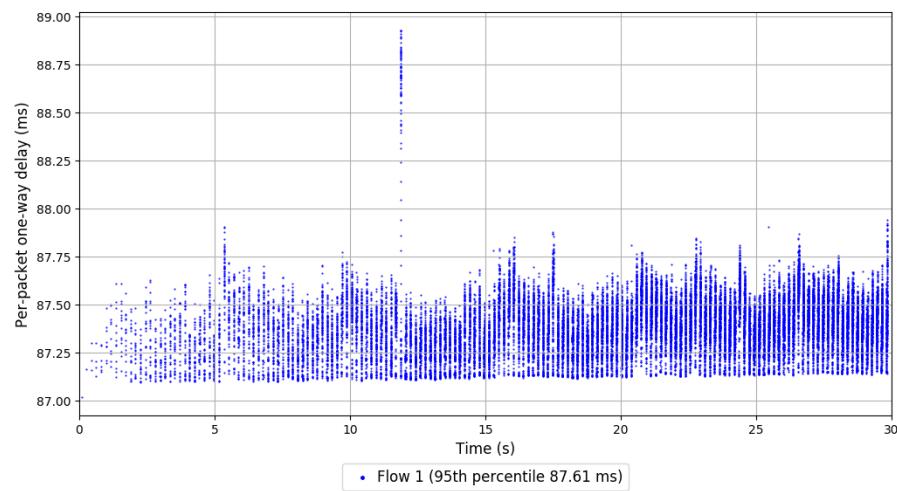
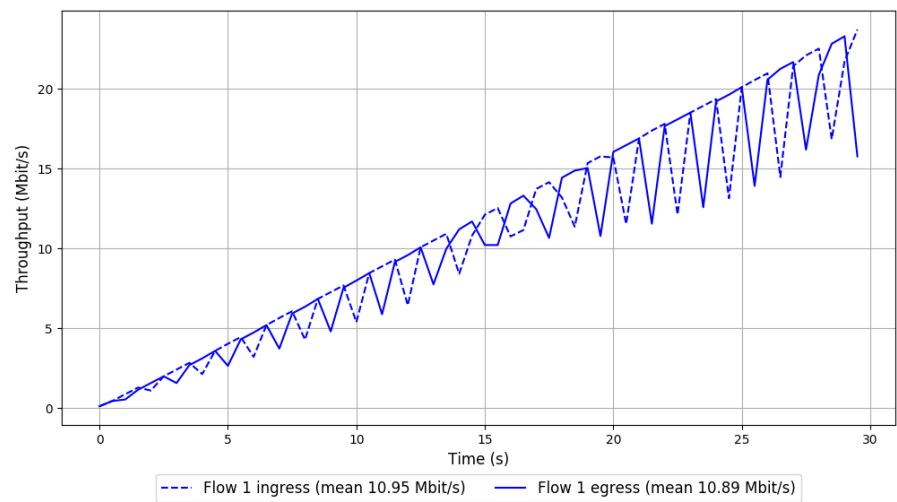
-- Flow 1:

Average throughput: 10.89 Mbit/s

95th percentile per-packet one-way delay: 87.615 ms

Loss rate: 1.21%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-03-27 02:51:59

End at: 2018-03-27 02:52:29

Local clock offset: -5.485 ms

Remote clock offset: 2.635 ms

Below is generated by plot.py at 2018-03-27 08:05:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.70 Mbit/s

95th percentile per-packet one-way delay: 88.585 ms

Loss rate: 1.22%

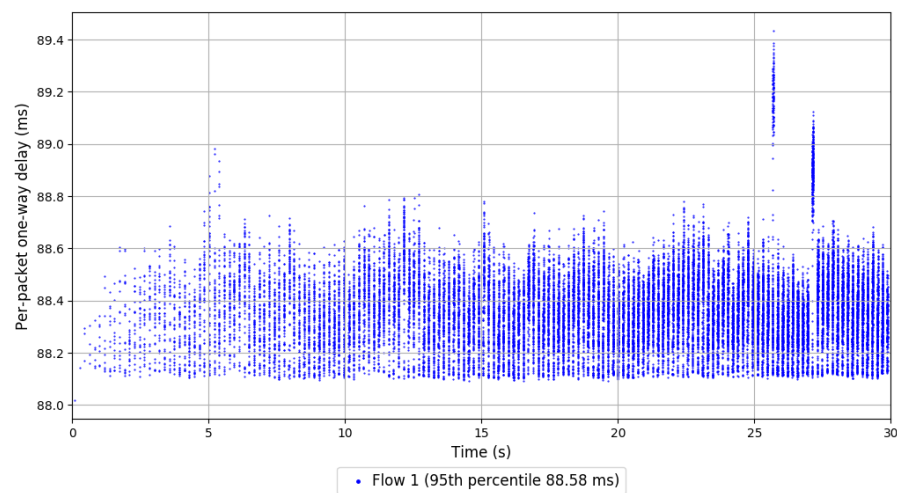
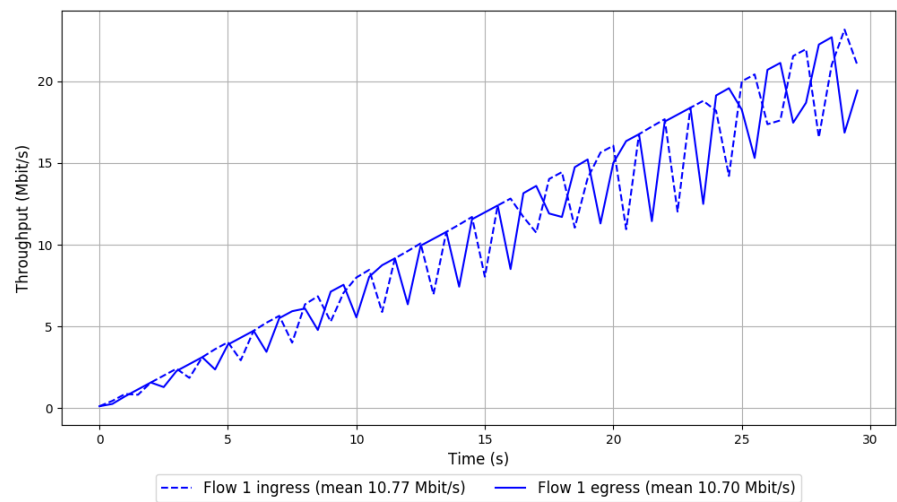
-- Flow 1:

Average throughput: 10.70 Mbit/s

95th percentile per-packet one-way delay: 88.585 ms

Loss rate: 1.22%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-03-27 03:14:32

End at: 2018-03-27 03:15:02

Local clock offset: -6.074 ms

Remote clock offset: 9.104 ms

Below is generated by plot.py at 2018-03-27 08:05:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.53 Mbit/s

95th percentile per-packet one-way delay: 82.128 ms

Loss rate: 1.23%

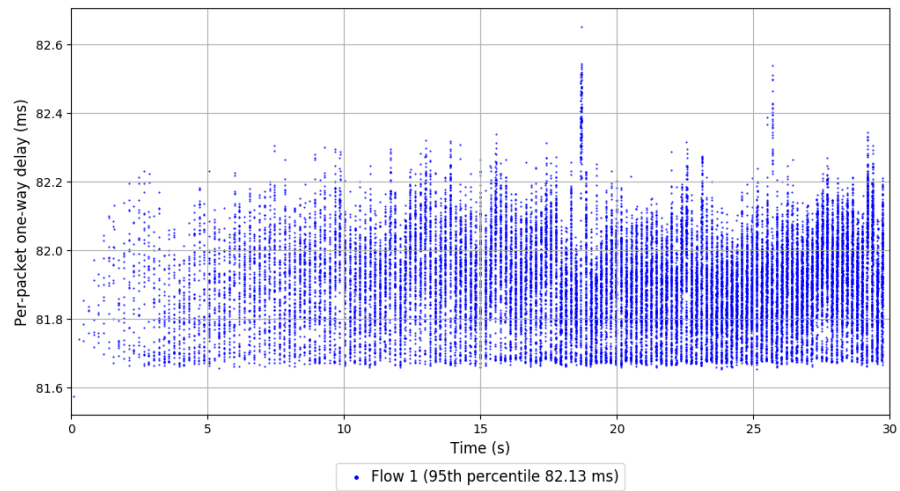
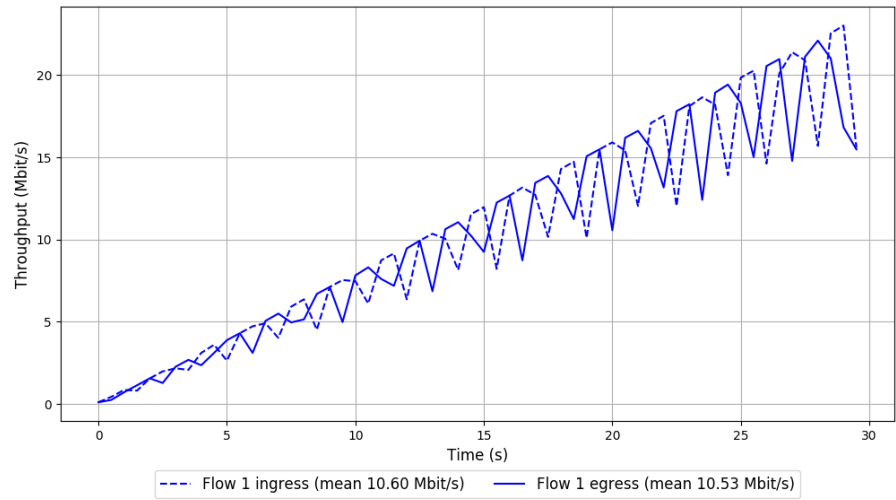
-- Flow 1:

Average throughput: 10.53 Mbit/s

95th percentile per-packet one-way delay: 82.128 ms

Loss rate: 1.23%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-03-27 03:36:53

End at: 2018-03-27 03:37:23

Local clock offset: -6.524 ms

Remote clock offset: 8.766 ms

Below is generated by plot.py at 2018-03-27 08:05:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.66 Mbit/s

95th percentile per-packet one-way delay: 82.038 ms

Loss rate: 1.22%

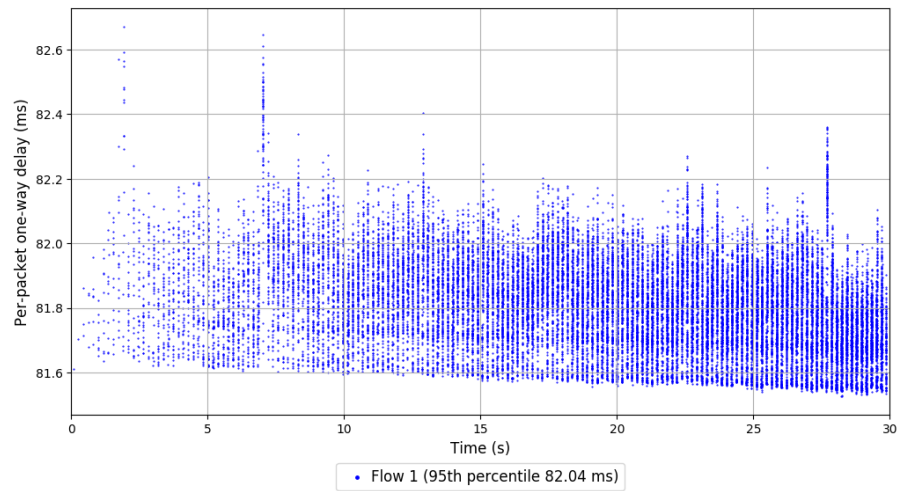
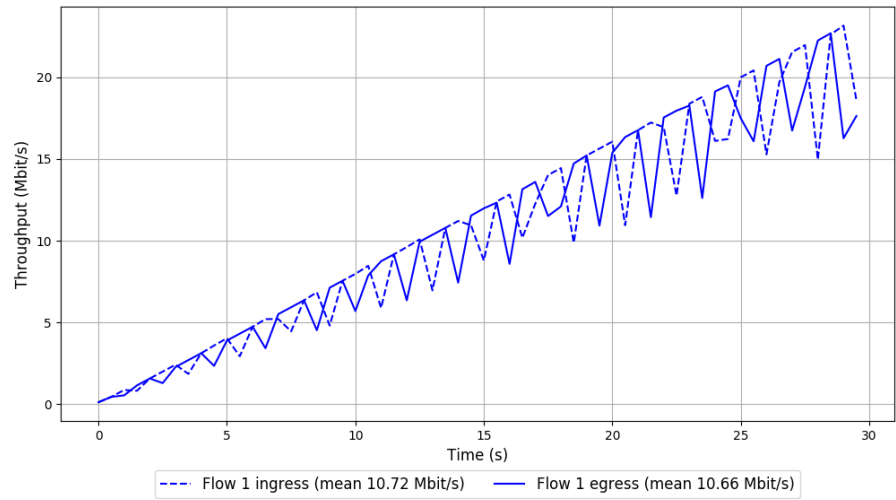
-- Flow 1:

Average throughput: 10.66 Mbit/s

95th percentile per-packet one-way delay: 82.038 ms

Loss rate: 1.22%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-03-27 03:59:07

End at: 2018-03-27 03:59:37

Local clock offset: -4.774 ms

Remote clock offset: 8.794 ms

Below is generated by plot.py at 2018-03-27 08:05:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.41 Mbit/s

95th percentile per-packet one-way delay: 82.572 ms

Loss rate: 1.24%

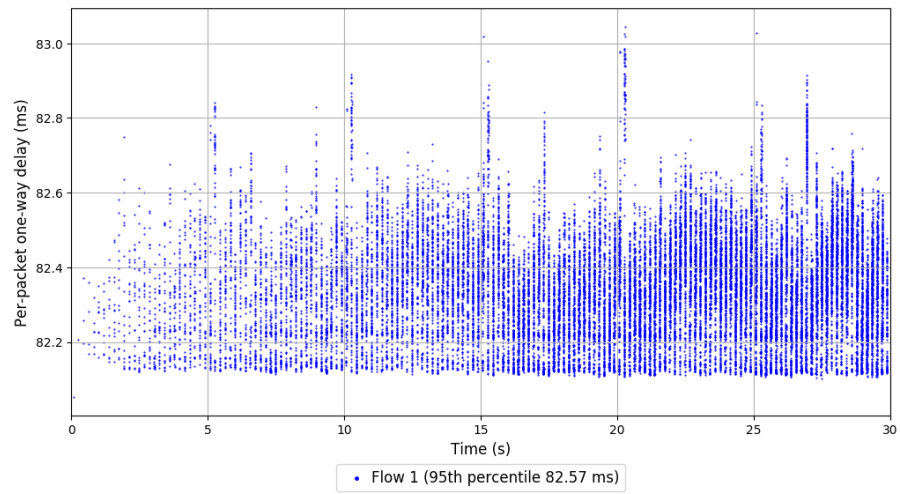
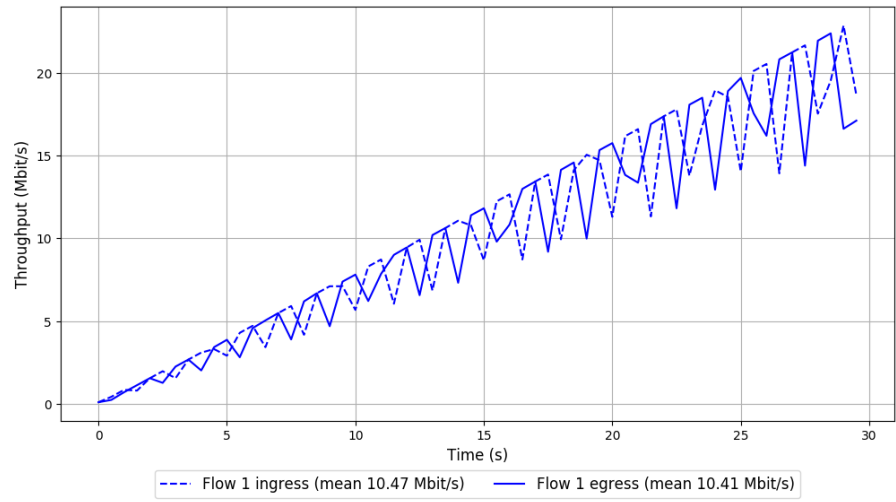
-- Flow 1:

Average throughput: 10.41 Mbit/s

95th percentile per-packet one-way delay: 82.572 ms

Loss rate: 1.24%

Run 10: Report of LEDBAT — Data Link

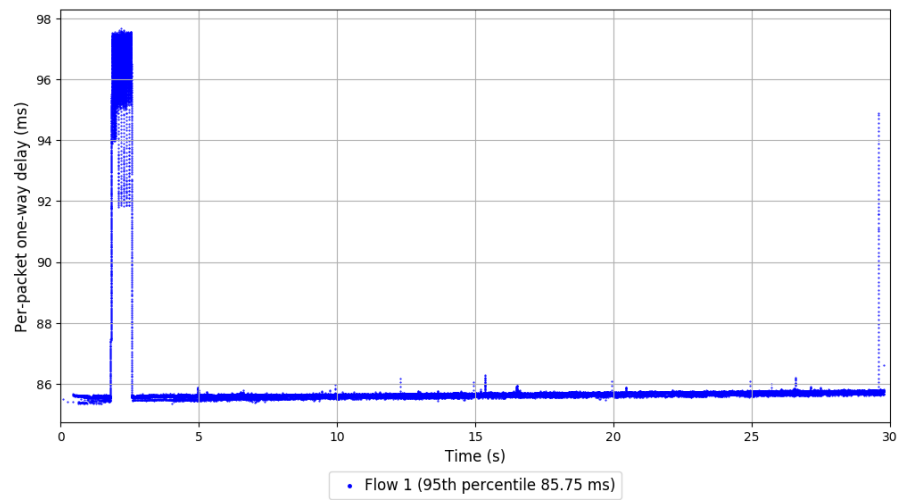
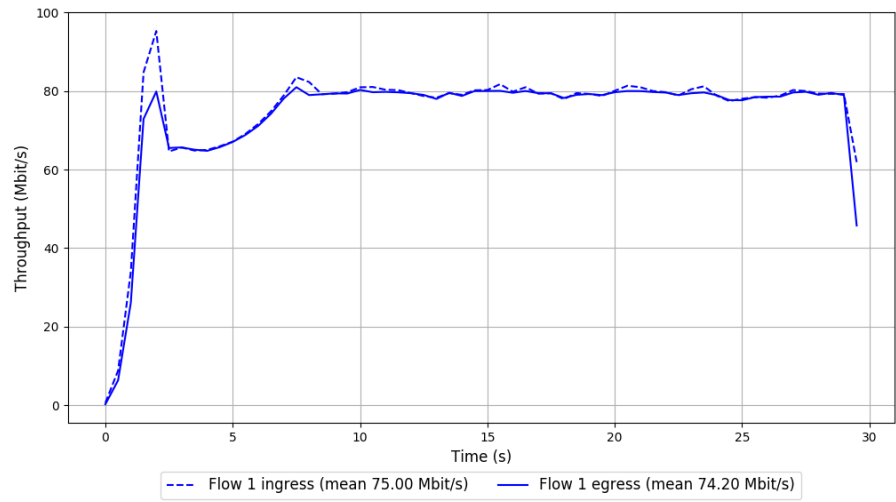


```
Run 1: Statistics of PCC

Start at: 2018-03-27 00:47:06
End at: 2018-03-27 00:47:36
Local clock offset: -0.384 ms
Remote clock offset: 4.886 ms

# Below is generated by plot.py at 2018-03-27 08:06:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.20 Mbit/s
95th percentile per-packet one-way delay: 85.755 ms
Loss rate: 1.68%
-- Flow 1:
Average throughput: 74.20 Mbit/s
95th percentile per-packet one-way delay: 85.755 ms
Loss rate: 1.68%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-03-27 01:09:27

End at: 2018-03-27 01:09:57

Local clock offset: -3.986 ms

Remote clock offset: 3.549 ms

Below is generated by plot.py at 2018-03-27 08:06:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.09 Mbit/s

95th percentile per-packet one-way delay: 96.247 ms

Loss rate: 0.68%

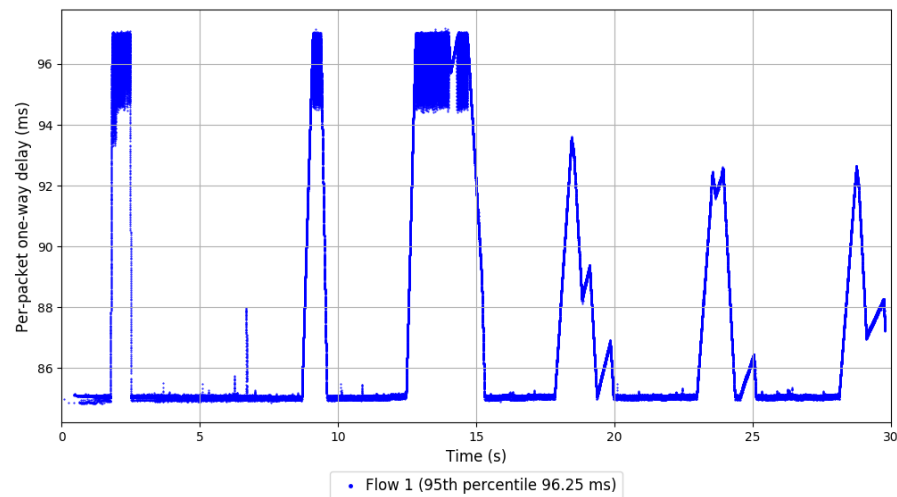
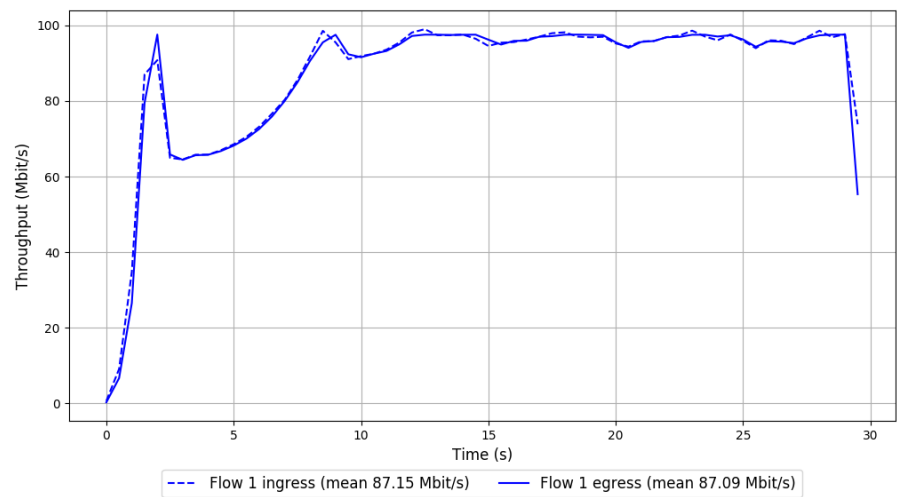
-- Flow 1:

Average throughput: 87.09 Mbit/s

95th percentile per-packet one-way delay: 96.247 ms

Loss rate: 0.68%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-03-27 01:31:39

End at: 2018-03-27 01:32:09

Local clock offset: -4.199 ms

Remote clock offset: 3.221 ms

Below is generated by plot.py at 2018-03-27 08:06:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.00 Mbit/s

95th percentile per-packet one-way delay: 97.264 ms

Loss rate: 0.73%

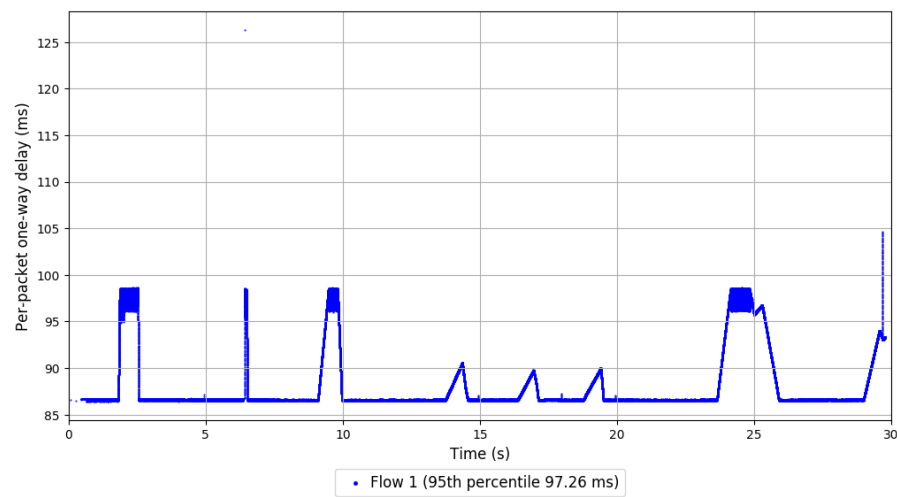
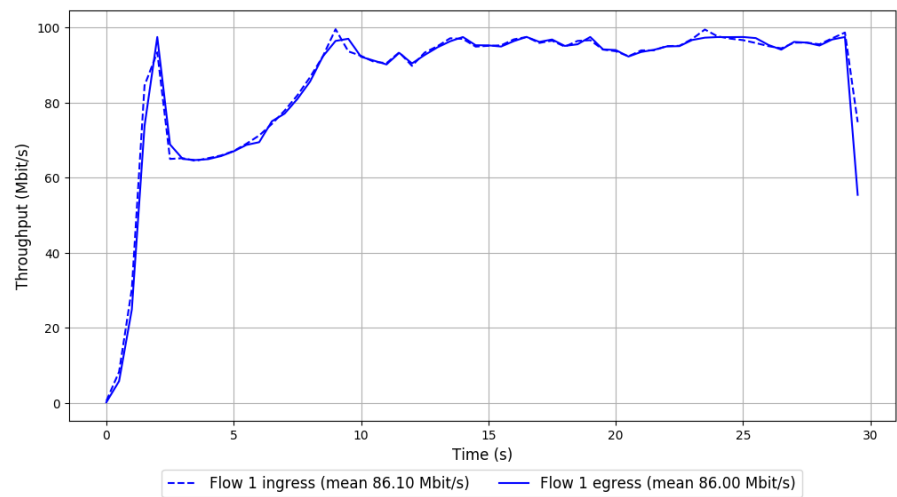
-- Flow 1:

Average throughput: 86.00 Mbit/s

95th percentile per-packet one-way delay: 97.264 ms

Loss rate: 0.73%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-03-27 01:53:56

End at: 2018-03-27 01:54:26

Local clock offset: -4.382 ms

Remote clock offset: 2.925 ms

Below is generated by plot.py at 2018-03-27 08:06:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.79 Mbit/s

95th percentile per-packet one-way delay: 98.005 ms

Loss rate: 0.71%

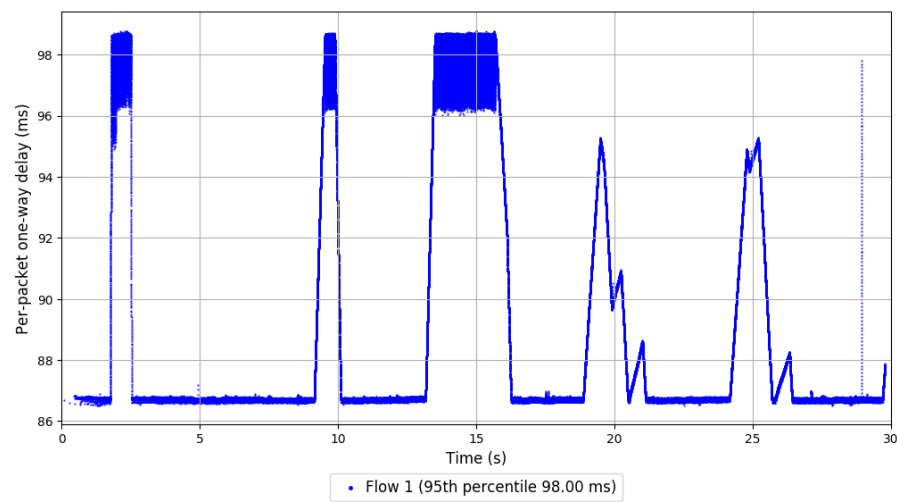
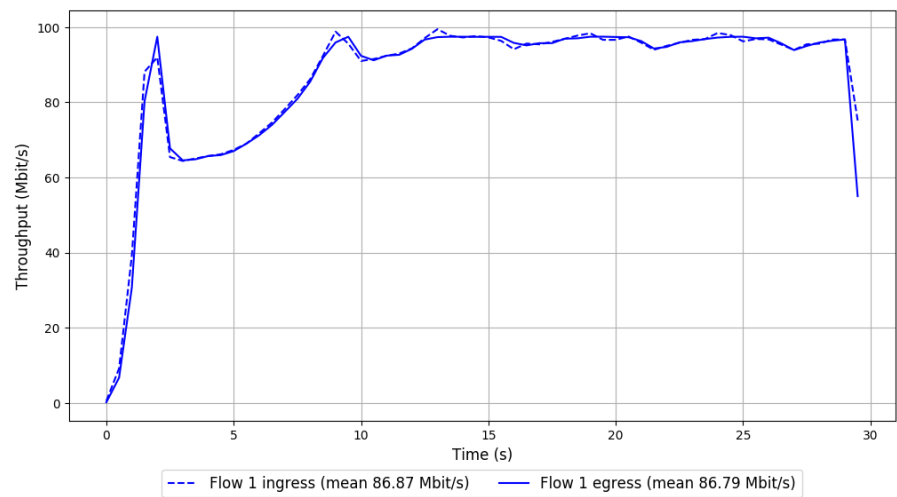
-- Flow 1:

Average throughput: 86.79 Mbit/s

95th percentile per-packet one-way delay: 98.005 ms

Loss rate: 0.71%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-03-27 02:16:09

End at: 2018-03-27 02:16:39

Local clock offset: -4.256 ms

Remote clock offset: 8.59 ms

Below is generated by plot.py at 2018-03-27 08:06:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.34 Mbit/s

95th percentile per-packet one-way delay: 79.422 ms

Loss rate: 1.68%

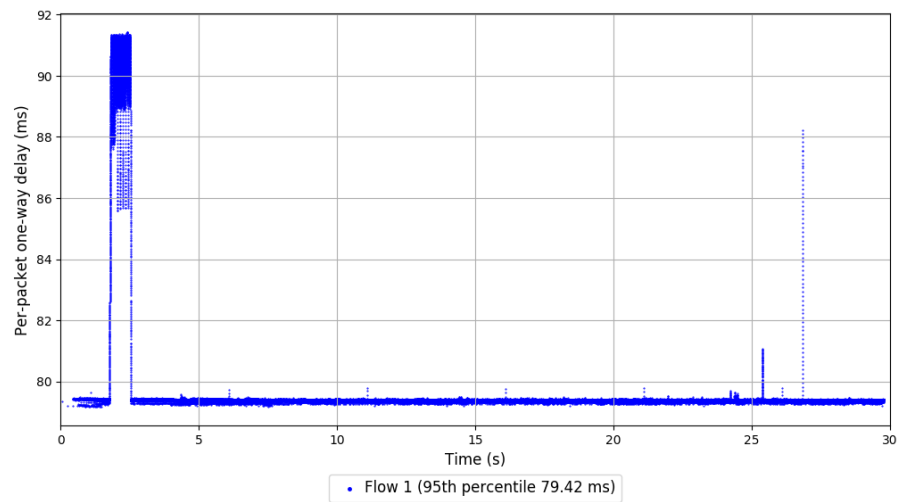
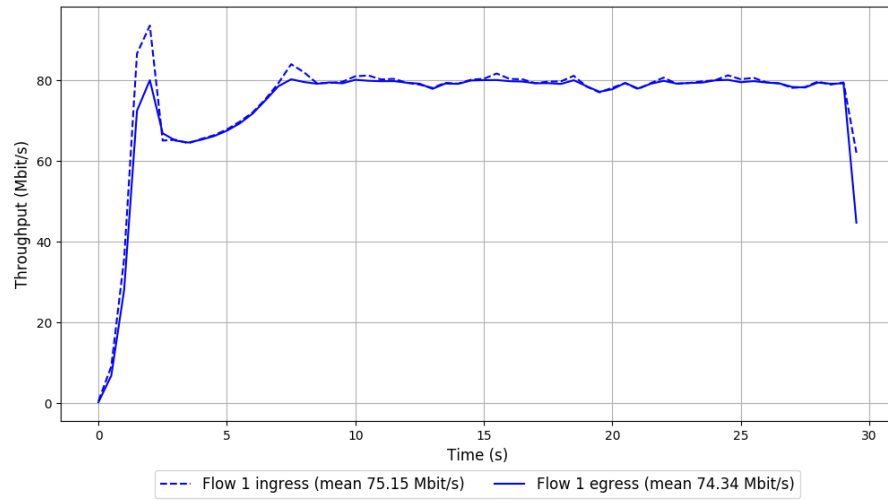
-- Flow 1:

Average throughput: 74.34 Mbit/s

95th percentile per-packet one-way delay: 79.422 ms

Loss rate: 1.68%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-03-27 02:38:24

End at: 2018-03-27 02:38:54

Local clock offset: -5.121 ms

Remote clock offset: 2.671 ms

Below is generated by plot.py at 2018-03-27 08:07:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.34 Mbit/s

95th percentile per-packet one-way delay: 95.871 ms

Loss rate: 0.70%

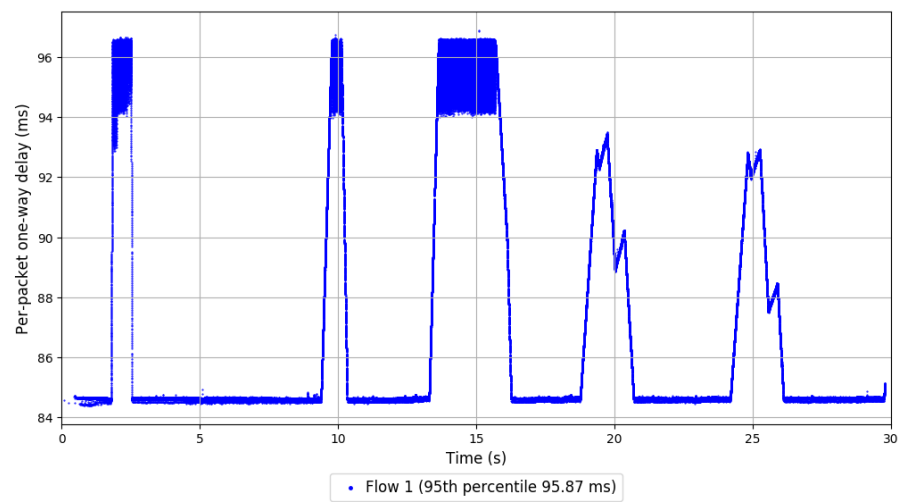
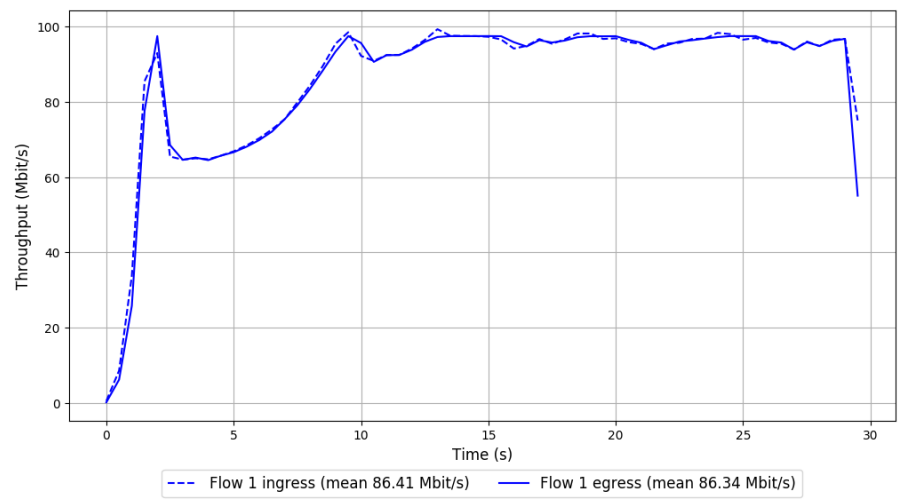
-- Flow 1:

Average throughput: 86.34 Mbit/s

95th percentile per-packet one-way delay: 95.871 ms

Loss rate: 0.70%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-03-27 03:00:55

End at: 2018-03-27 03:01:25

Local clock offset: -5.772 ms

Remote clock offset: 9.092 ms

Below is generated by plot.py at 2018-03-27 08:07:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.39 Mbit/s

95th percentile per-packet one-way delay: 91.000 ms

Loss rate: 0.71%

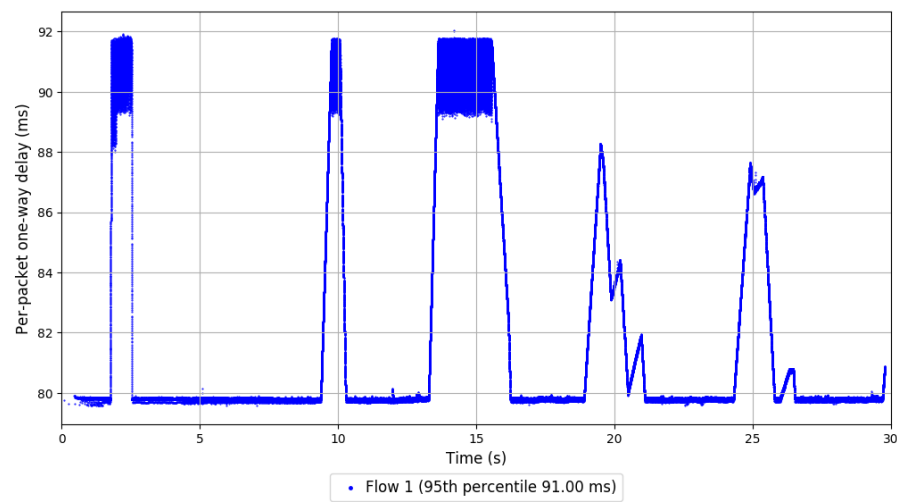
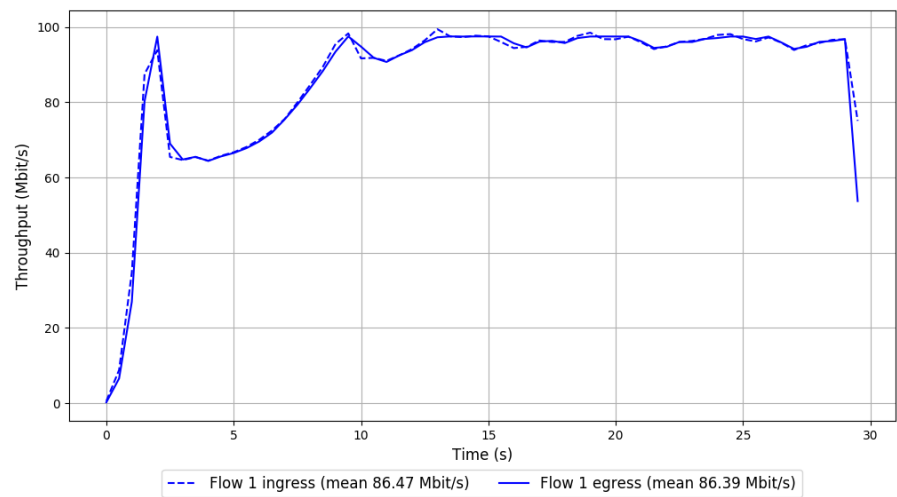
-- Flow 1:

Average throughput: 86.39 Mbit/s

95th percentile per-packet one-way delay: 91.000 ms

Loss rate: 0.71%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-03-27 03:23:13

End at: 2018-03-27 03:23:43

Local clock offset: -6.242 ms

Remote clock offset: 8.603 ms

Below is generated by plot.py at 2018-03-27 08:07:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.57 Mbit/s

95th percentile per-packet one-way delay: 89.629 ms

Loss rate: 0.70%

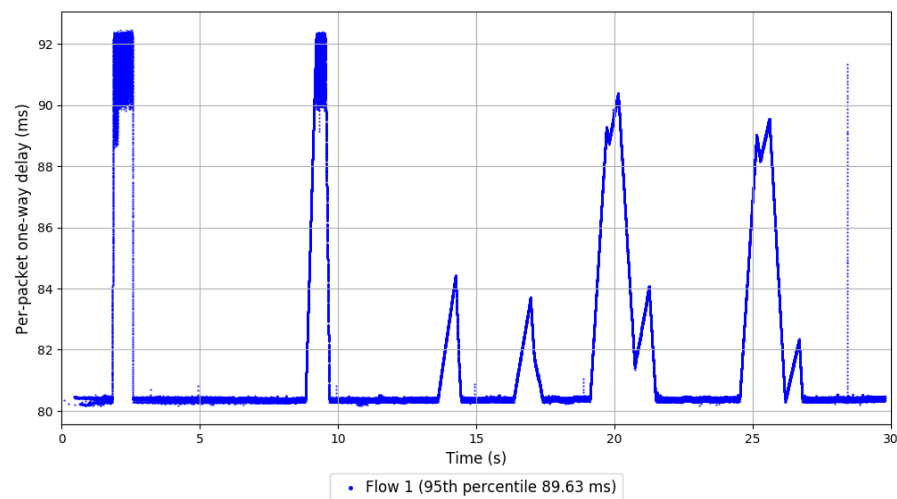
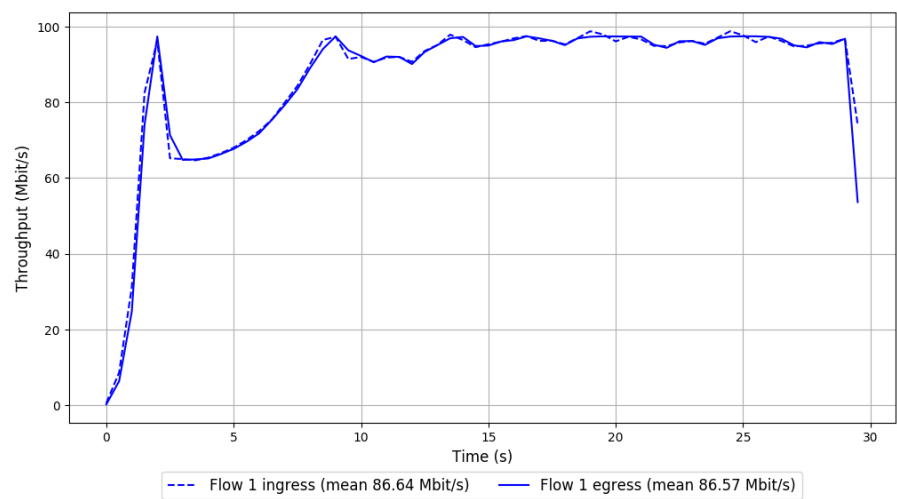
-- Flow 1:

Average throughput: 86.57 Mbit/s

95th percentile per-packet one-way delay: 89.629 ms

Loss rate: 0.70%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-03-27 03:45:31

End at: 2018-03-27 03:46:01

Local clock offset: -5.424 ms

Remote clock offset: 8.124 ms

Below is generated by plot.py at 2018-03-27 08:07:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.68 Mbit/s

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

Loss rate: 0.70%

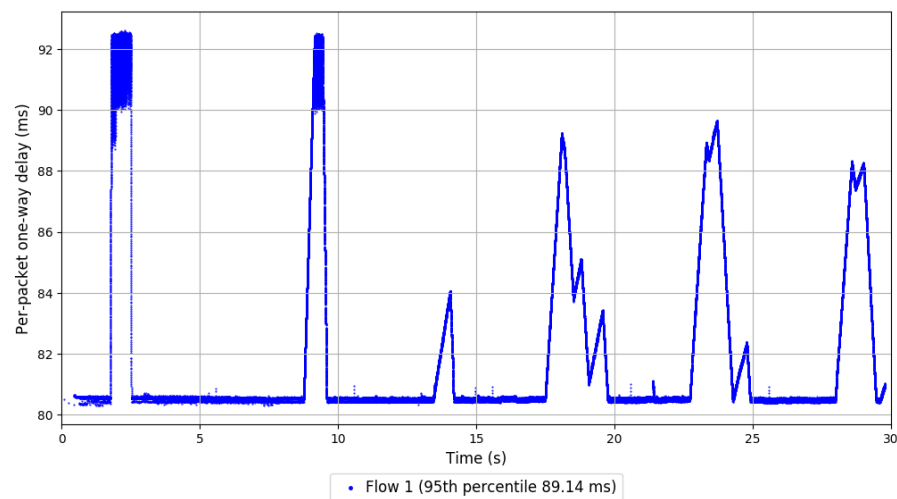
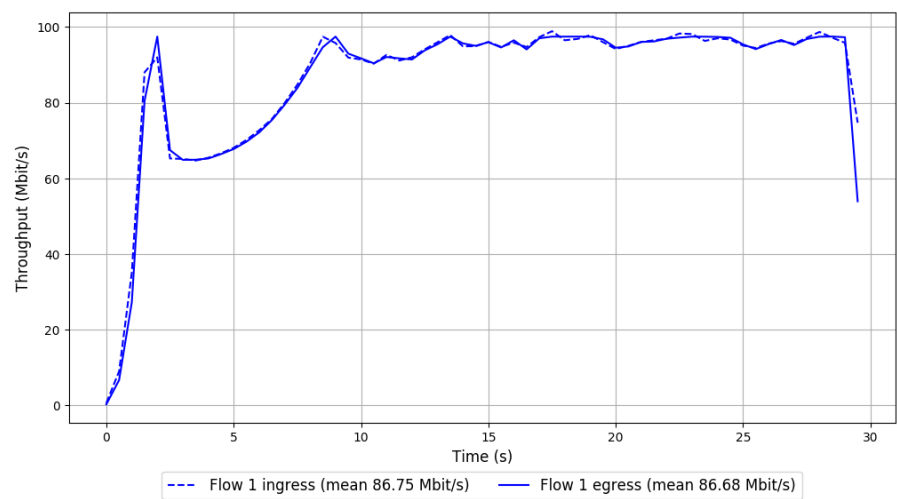
-- Flow 1:

Average throughput: 86.68 Mbit/s

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

Loss rate: 0.70%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-03-27 04:07:44

End at: 2018-03-27 04:08:14

Local clock offset: -4.587 ms

Remote clock offset: 2.174 ms

Below is generated by plot.py at 2018-03-27 08:08:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.55 Mbit/s

95th percentile per-packet one-way delay: 97.521 ms

Loss rate: 0.70%

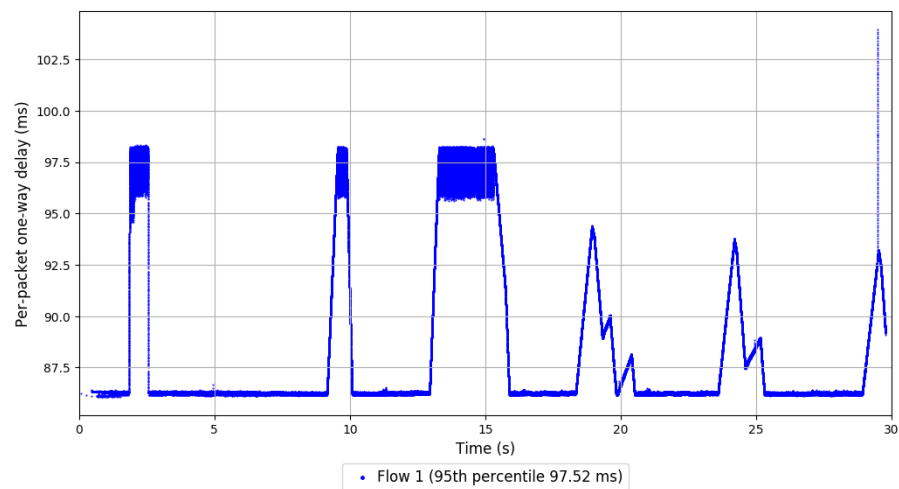
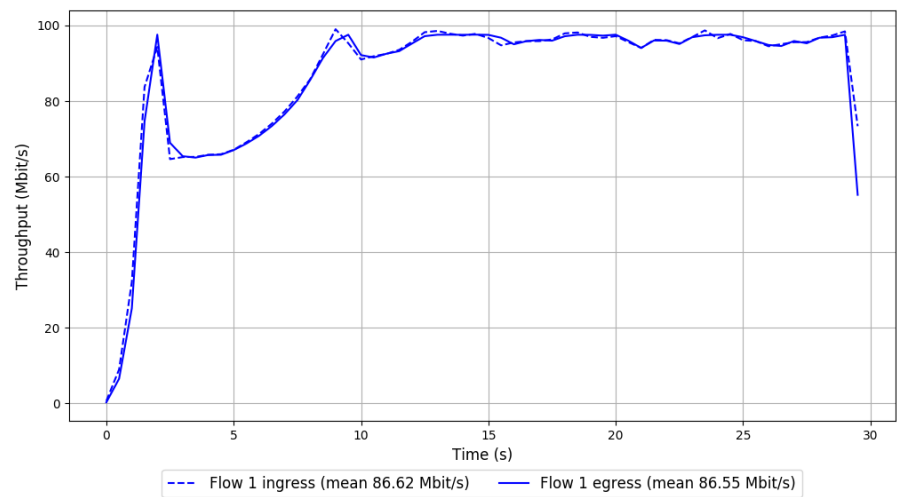
-- Flow 1:

Average throughput: 86.55 Mbit/s

95th percentile per-packet one-way delay: 97.521 ms

Loss rate: 0.70%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-03-27 00:37:15

End at: 2018-03-27 00:37:45

Local clock offset: -0.473 ms

Remote clock offset: 3.38 ms

Below is generated by plot.py at 2018-03-27 08:08:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.16 Mbit/s

95th percentile per-packet one-way delay: 98.249 ms

Loss rate: 0.93%

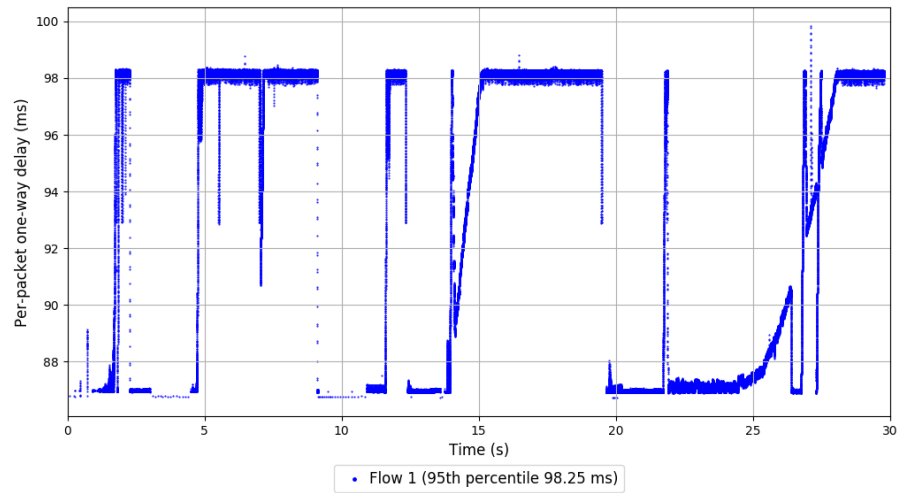
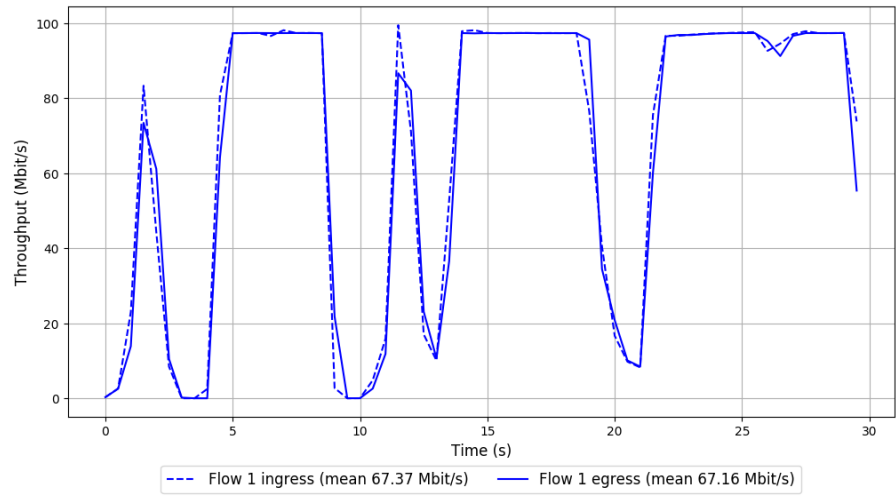
-- Flow 1:

Average throughput: 67.16 Mbit/s

95th percentile per-packet one-way delay: 98.249 ms

Loss rate: 0.93%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-03-27 00:59:35

End at: 2018-03-27 01:00:05

Local clock offset: -3.242 ms

Remote clock offset: 9.364 ms

Below is generated by plot.py at 2018-03-27 08:08:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.06 Mbit/s

95th percentile per-packet one-way delay: 90.717 ms

Loss rate: 0.95%

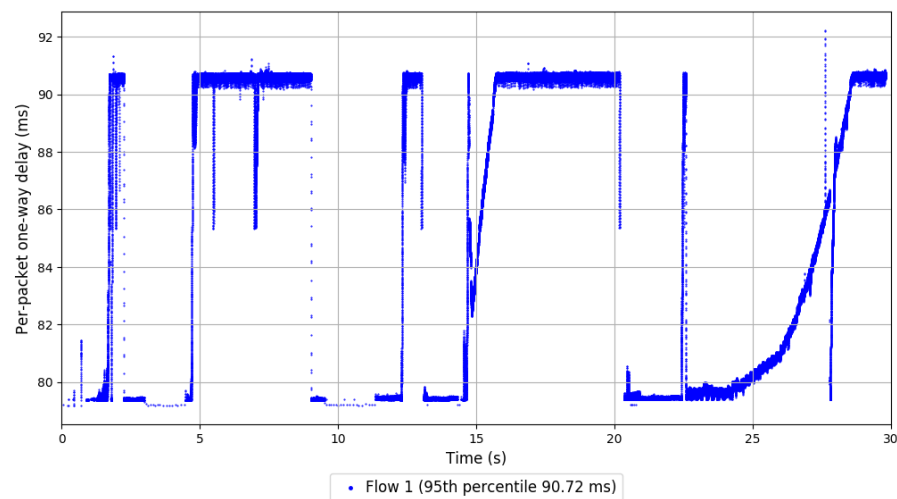
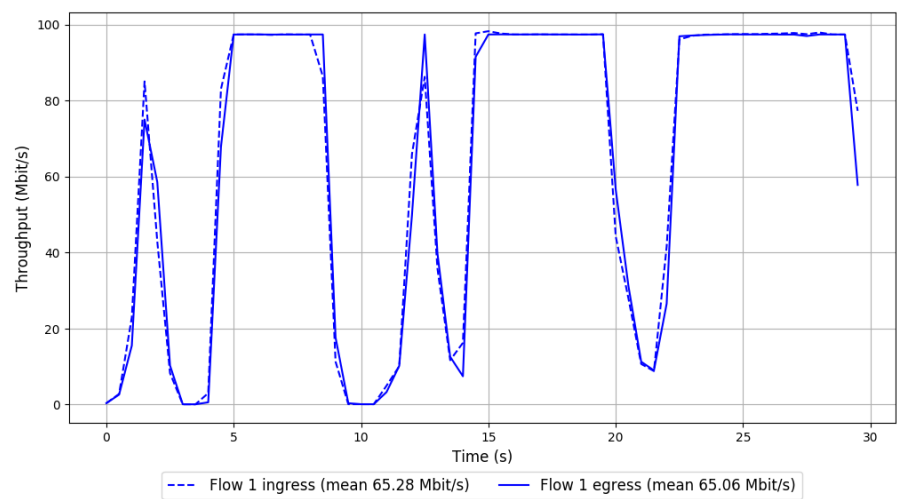
-- Flow 1:

Average throughput: 65.06 Mbit/s

95th percentile per-packet one-way delay: 90.717 ms

Loss rate: 0.95%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-03-27 01:21:49

End at: 2018-03-27 01:22:19

Local clock offset: -4.294 ms

Remote clock offset: 9.126 ms

Below is generated by plot.py at 2018-03-27 08:08:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.56 Mbit/s

95th percentile per-packet one-way delay: 81.735 ms

Loss rate: 1.33%

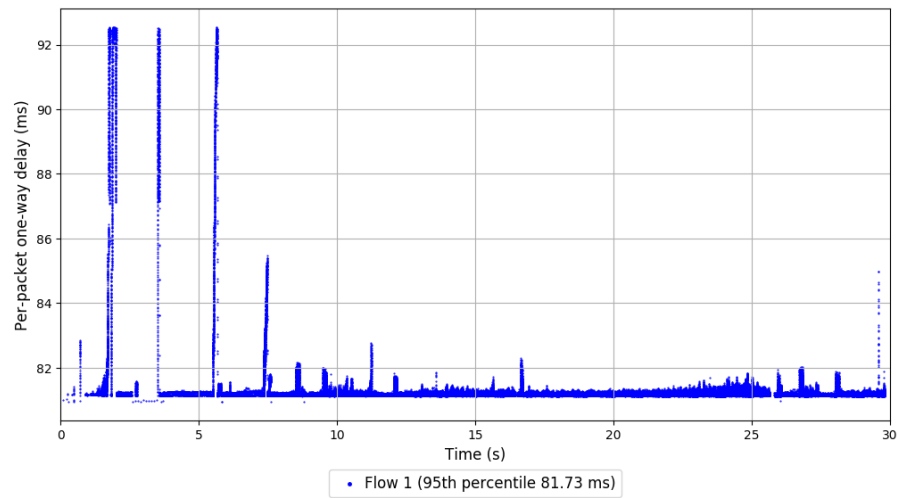
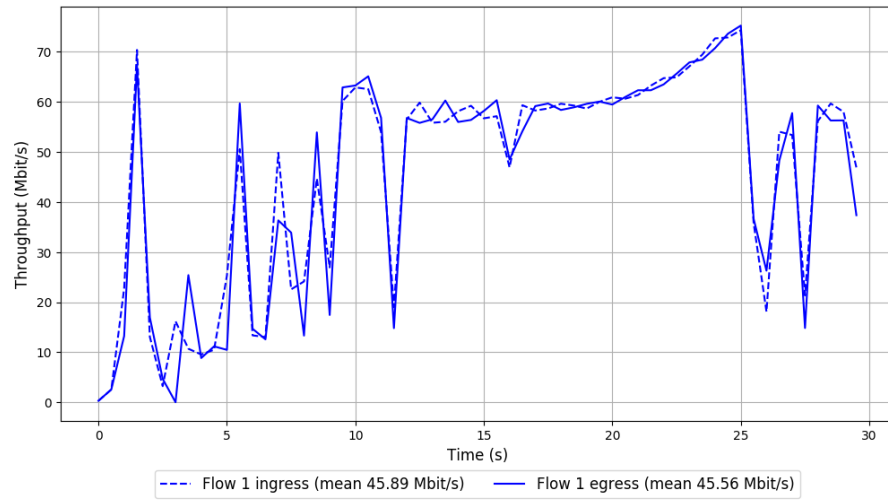
-- Flow 1:

Average throughput: 45.56 Mbit/s

95th percentile per-packet one-way delay: 81.735 ms

Loss rate: 1.33%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-03-27 01:44:03

End at: 2018-03-27 01:44:33

Local clock offset: -4.258 ms

Remote clock offset: 8.861 ms

Below is generated by plot.py at 2018-03-27 08:08:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.36 Mbit/s

95th percentile per-packet one-way delay: 92.742 ms

Loss rate: 0.88%

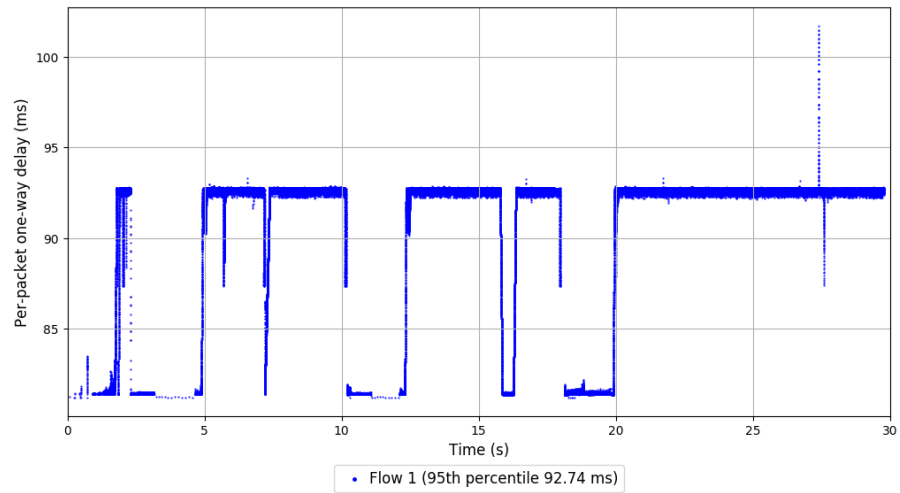
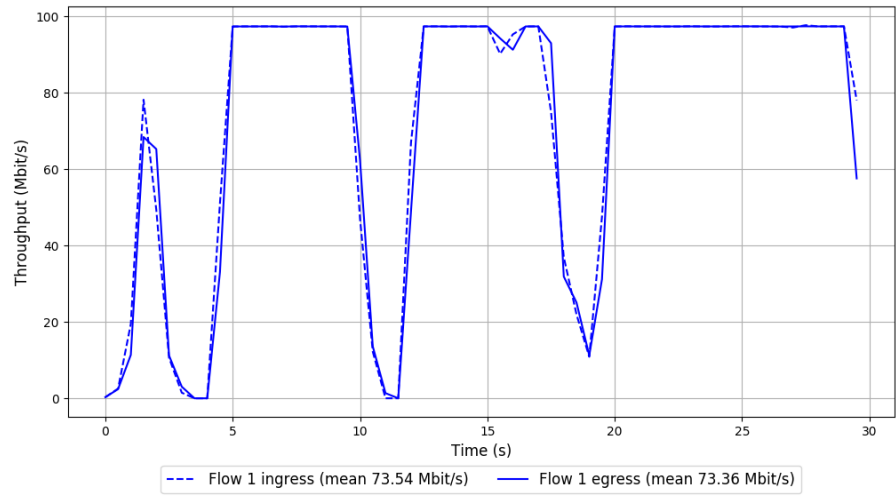
-- Flow 1:

Average throughput: 73.36 Mbit/s

95th percentile per-packet one-way delay: 92.742 ms

Loss rate: 0.88%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-03-27 02:06:17

End at: 2018-03-27 02:06:47

Local clock offset: -4.293 ms

Remote clock offset: 8.8 ms

Below is generated by plot.py at 2018-03-27 08:08:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.98 Mbit/s

95th percentile per-packet one-way delay: 90.397 ms

Loss rate: 0.88%

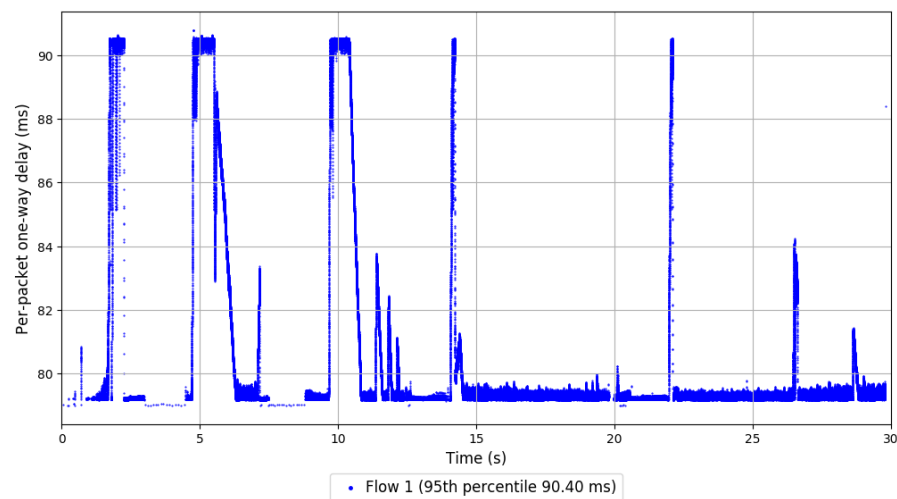
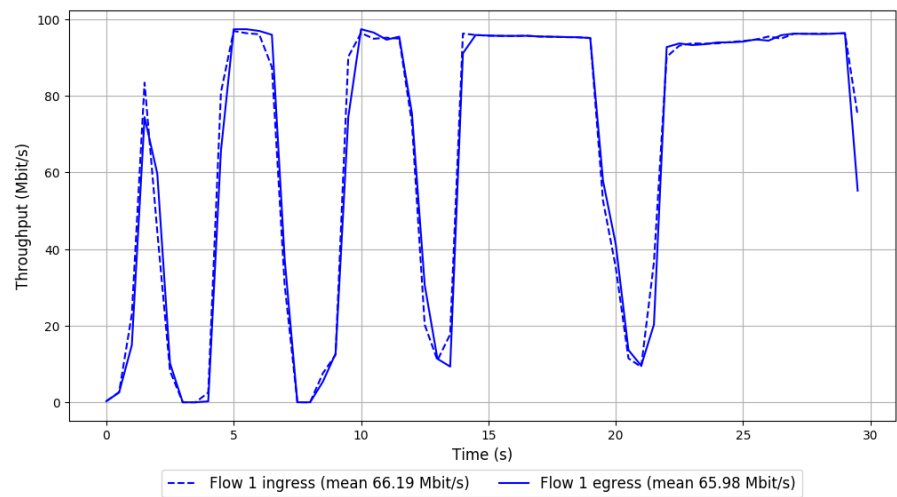
-- Flow 1:

Average throughput: 65.98 Mbit/s

95th percentile per-packet one-way delay: 90.397 ms

Loss rate: 0.88%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-03-27 02:28:33

End at: 2018-03-27 02:29:03

Local clock offset: -4.319 ms

Remote clock offset: 8.494 ms

Below is generated by plot.py at 2018-03-27 08:08:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.21 Mbit/s

95th percentile per-packet one-way delay: 89.857 ms

Loss rate: 0.86%

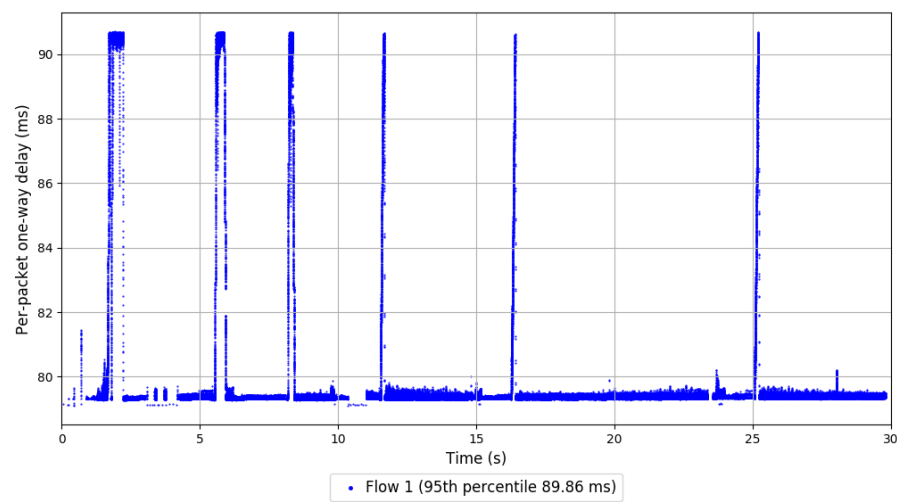
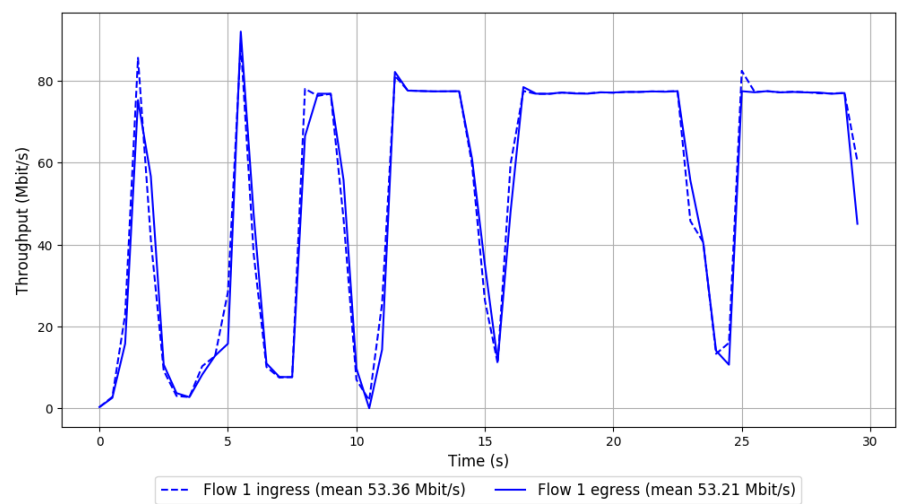
-- Flow 1:

Average throughput: 53.21 Mbit/s

95th percentile per-packet one-way delay: 89.857 ms

Loss rate: 0.86%

Run 6: Report of QUIC Cubic — Data Link

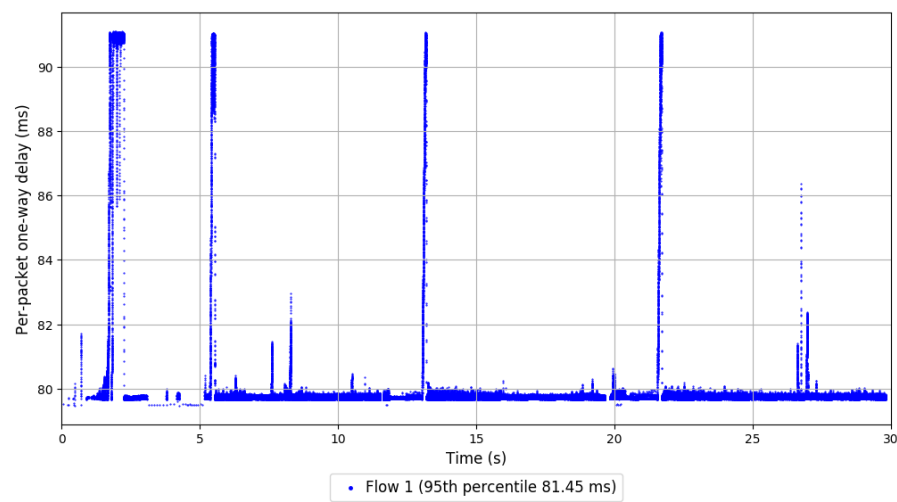
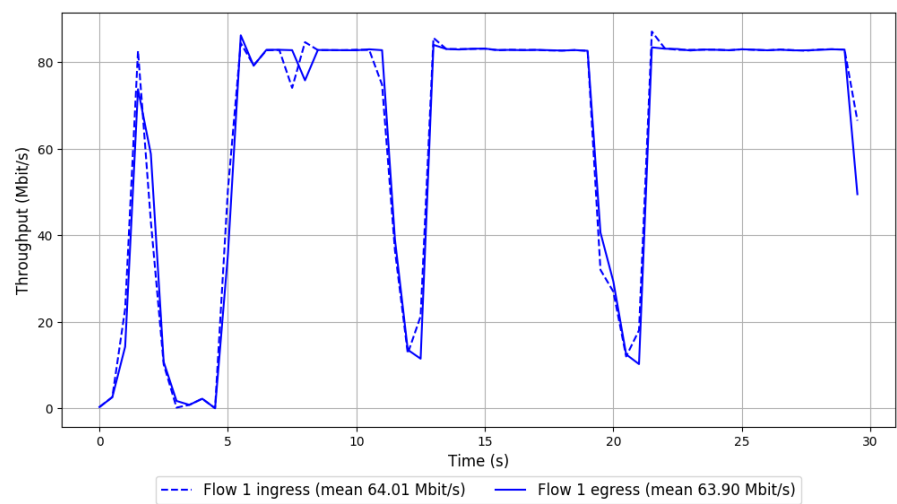


Run 7: Statistics of QUIC Cubic

Start at: 2018-03-27 02:50:45
End at: 2018-03-27 02:51:15
Local clock offset: -5.511 ms
Remote clock offset: 9.082 ms

Below is generated by plot.py at 2018-03-27 08:08:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 63.90 Mbit/s
95th percentile per-packet one-way delay: 81.447 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 63.90 Mbit/s
95th percentile per-packet one-way delay: 81.447 ms
Loss rate: 0.79%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-03-27 03:13:18

End at: 2018-03-27 03:13:48

Local clock offset: -6.084 ms

Remote clock offset: 2.691 ms

Below is generated by plot.py at 2018-03-27 08:08:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.92 Mbit/s

95th percentile per-packet one-way delay: 97.375 ms

Loss rate: 0.99%

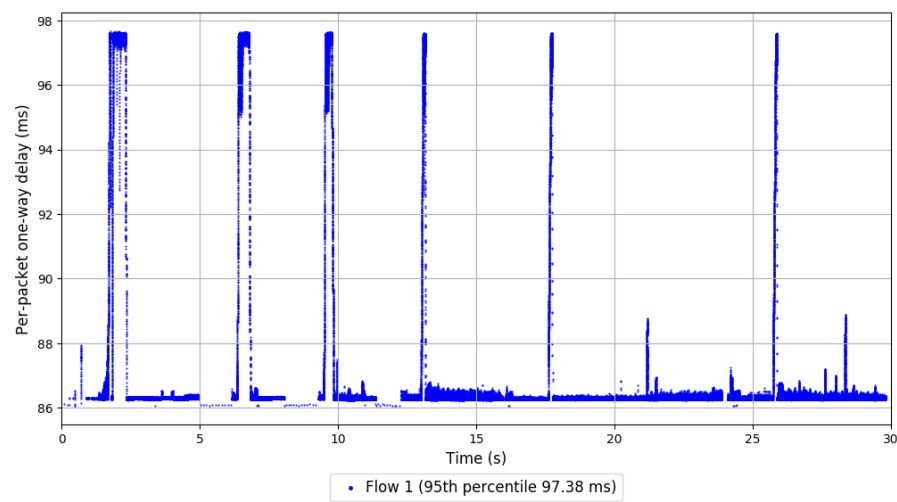
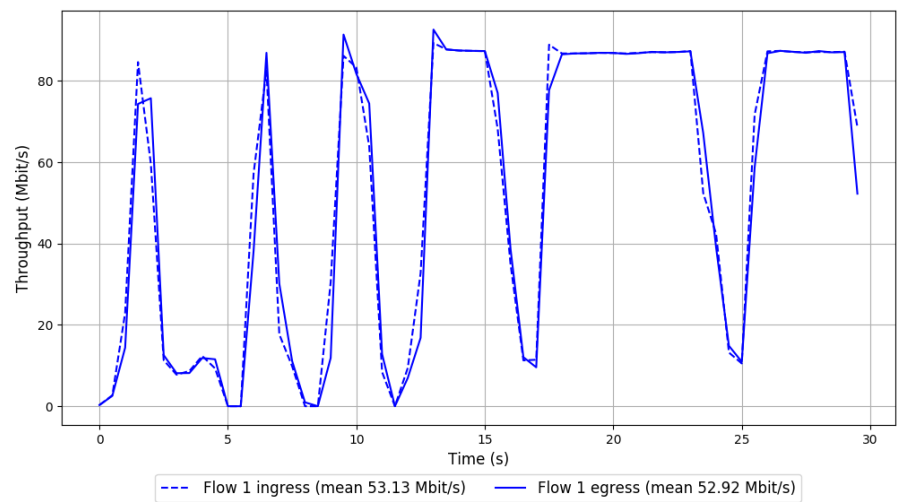
-- Flow 1:

Average throughput: 52.92 Mbit/s

95th percentile per-packet one-way delay: 97.375 ms

Loss rate: 0.99%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-03-27 03:35:39

End at: 2018-03-27 03:36:09

Local clock offset: -6.485 ms

Remote clock offset: 2.718 ms

Below is generated by plot.py at 2018-03-27 08:09:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.05 Mbit/s

95th percentile per-packet one-way delay: 97.349 ms

Loss rate: 0.85%

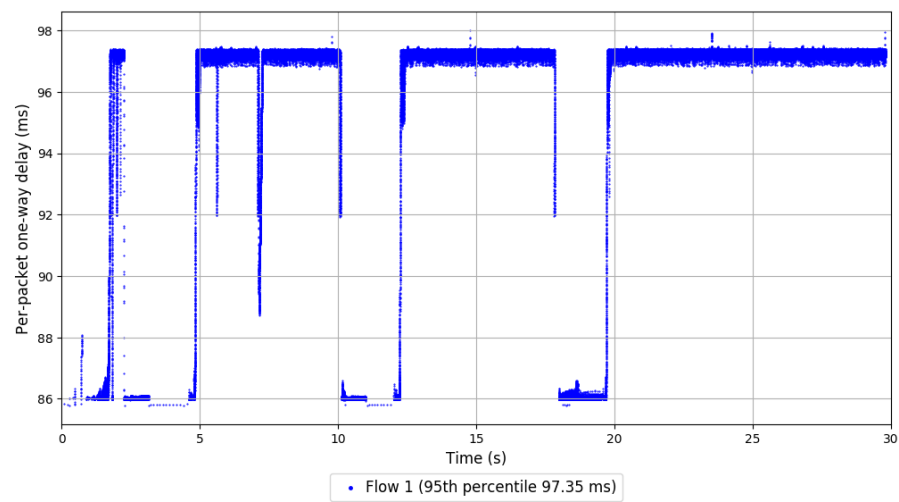
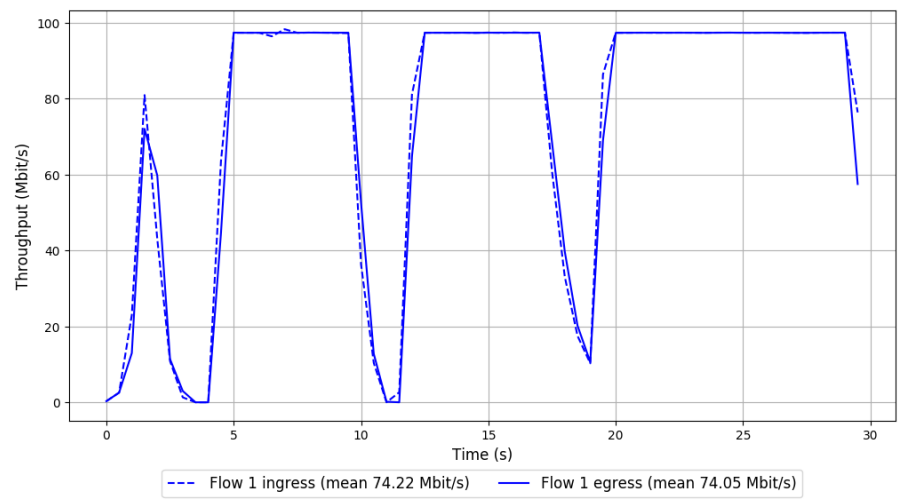
-- Flow 1:

Average throughput: 74.05 Mbit/s

95th percentile per-packet one-way delay: 97.349 ms

Loss rate: 0.85%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-03-27 03:57:53

End at: 2018-03-27 03:58:23

Local clock offset: -4.904 ms

Remote clock offset: 8.688 ms

Below is generated by plot.py at 2018-03-27 08:09:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.15 Mbit/s

95th percentile per-packet one-way delay: 89.676 ms

Loss rate: 0.98%

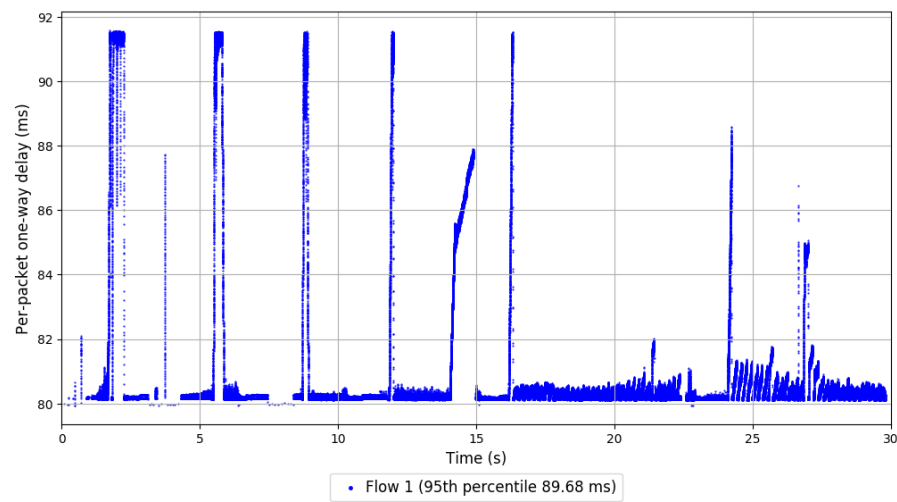
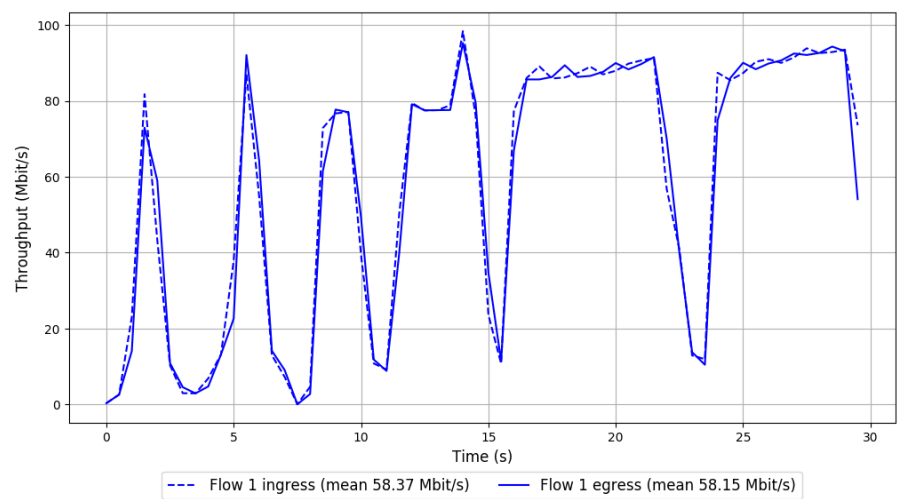
-- Flow 1:

Average throughput: 58.15 Mbit/s

95th percentile per-packet one-way delay: 89.676 ms

Loss rate: 0.98%

Run 10: Report of QUIC Cubic — Data Link

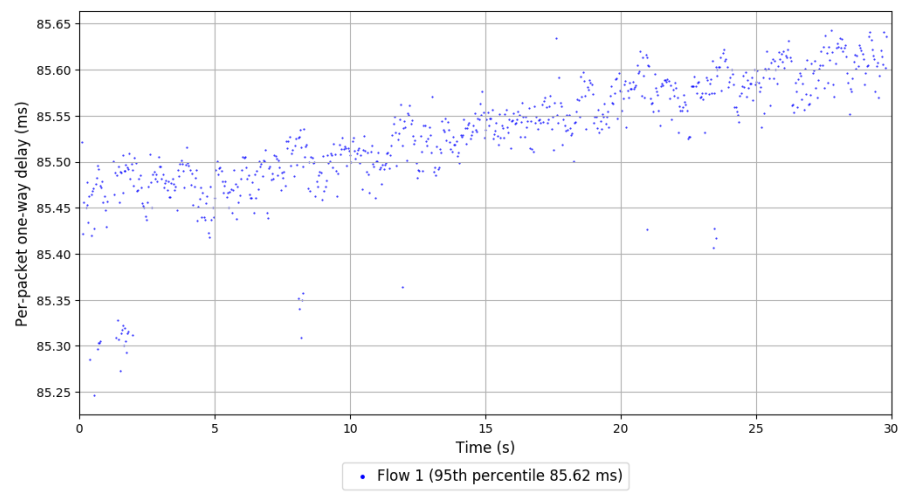
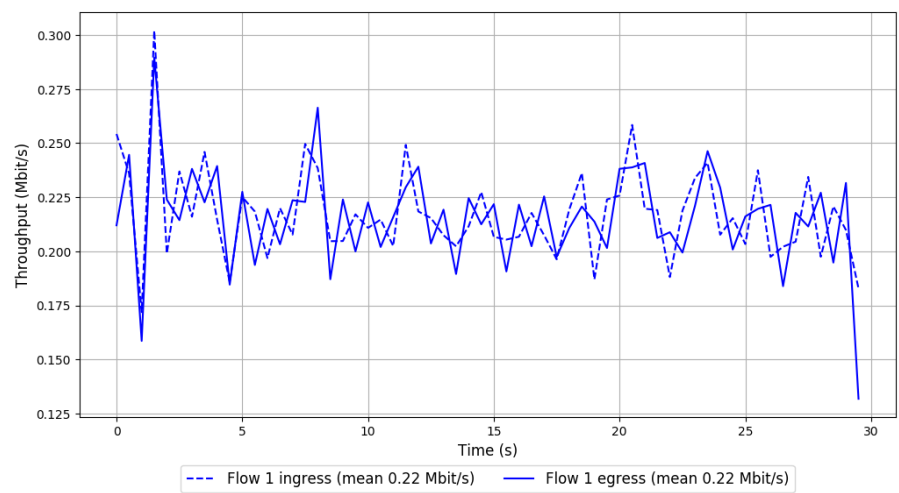


```
Run 1: Statistics of SCReAM

Start at: 2018-03-27 00:48:20
End at: 2018-03-27 00:48:50
Local clock offset: -0.774 ms
Remote clock offset: 3.309 ms

# Below is generated by plot.py at 2018-03-27 08:09:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.616 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.616 ms
Loss rate: 0.64%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-03-27 01:10:41

End at: 2018-03-27 01:11:11

Local clock offset: -4.094 ms

Remote clock offset: 3.525 ms

Below is generated by plot.py at 2018-03-27 08:09:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.828 ms

Loss rate: 0.51%

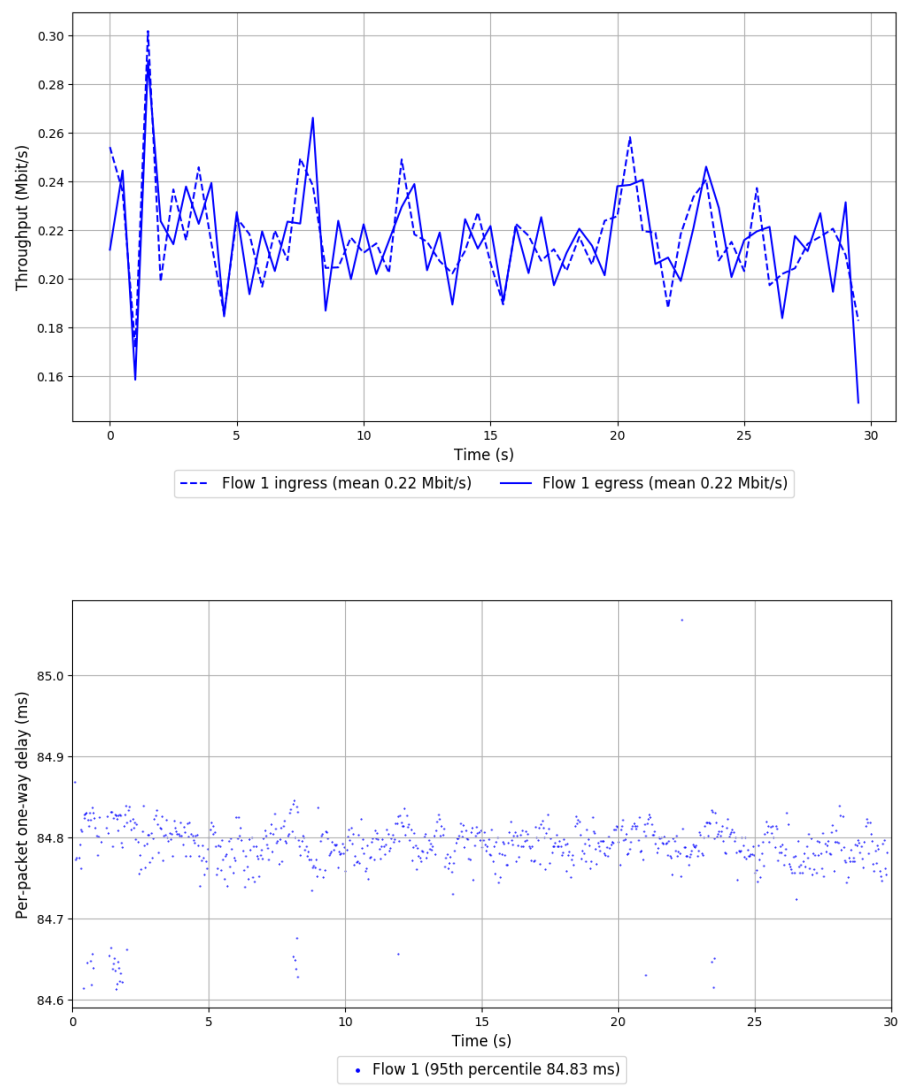
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.828 ms

Loss rate: 0.51%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-03-27 01:32:53

End at: 2018-03-27 01:33:23

Local clock offset: -4.185 ms

Remote clock offset: 3.133 ms

Below is generated by plot.py at 2018-03-27 08:09:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.206 ms

Loss rate: 0.64%

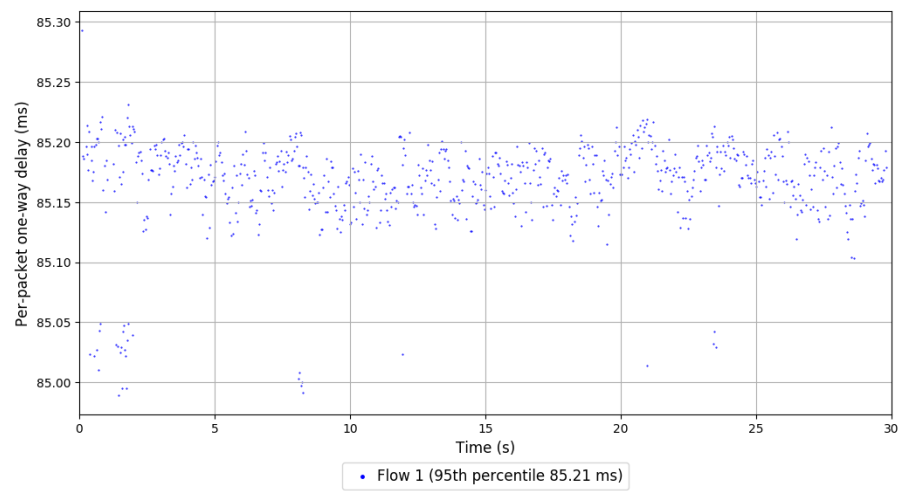
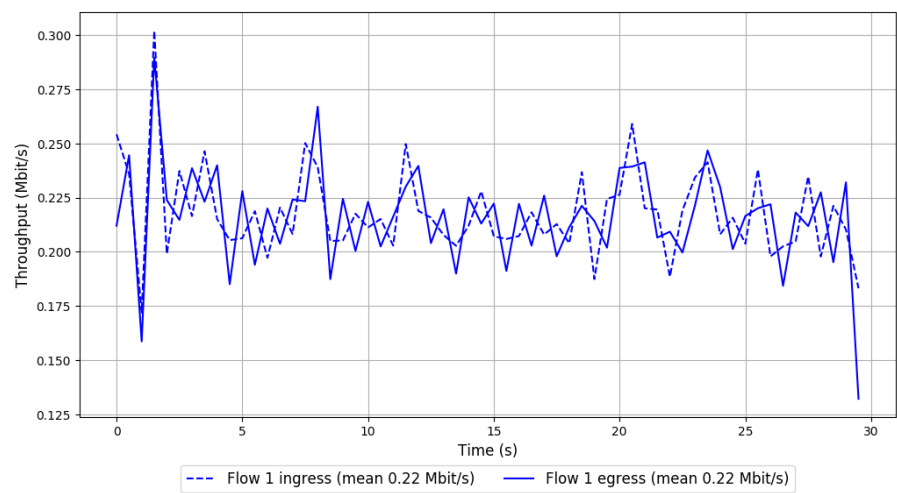
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.206 ms

Loss rate: 0.64%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-03-27 01:55:09

End at: 2018-03-27 01:55:39

Local clock offset: -4.393 ms

Remote clock offset: 8.61 ms

Below is generated by plot.py at 2018-03-27 08:09:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.439 ms

Loss rate: 0.64%

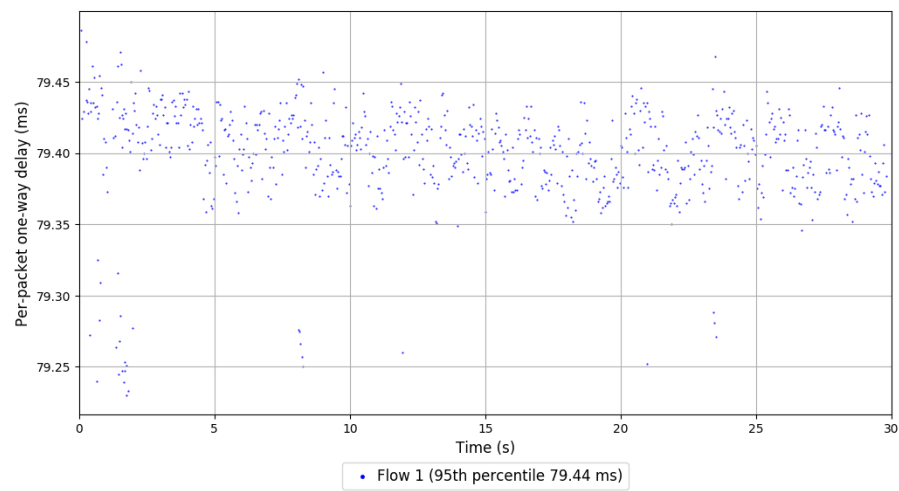
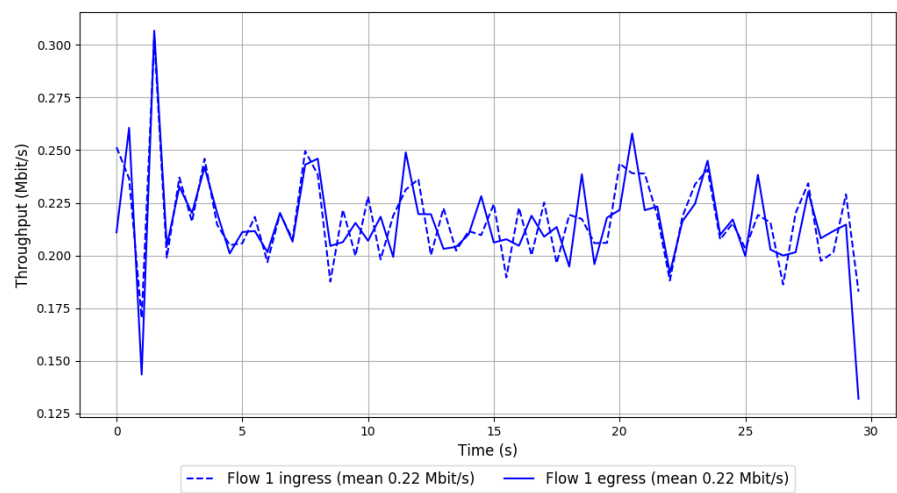
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.439 ms

Loss rate: 0.64%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-03-27 02:17:23

End at: 2018-03-27 02:17:53

Local clock offset: -4.265 ms

Remote clock offset: 8.748 ms

Below is generated by plot.py at 2018-03-27 08:09:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 78.853 ms

Loss rate: 0.64%

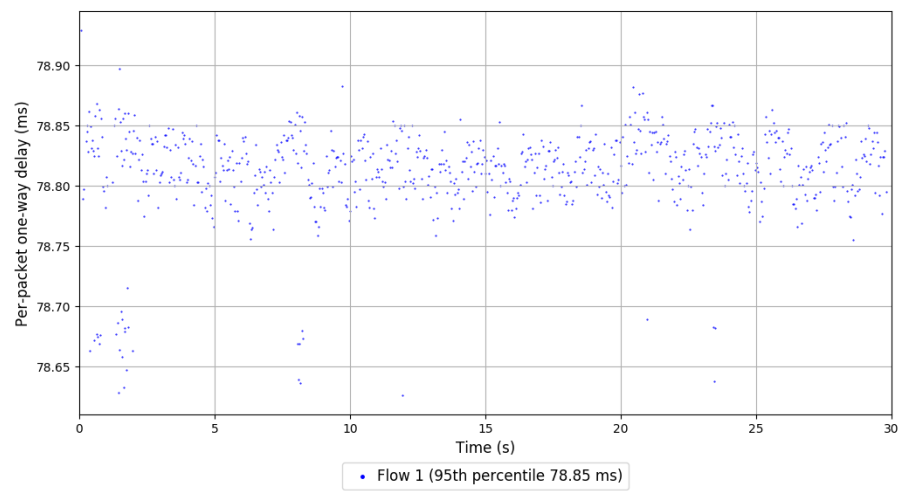
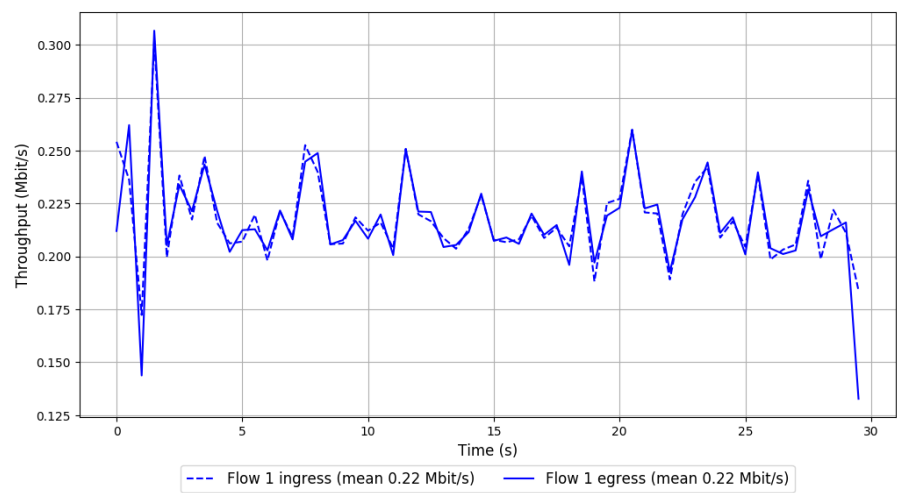
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 78.853 ms

Loss rate: 0.64%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-03-27 02:39:37

End at: 2018-03-27 02:40:07

Local clock offset: -5.107 ms

Remote clock offset: 2.549 ms

Below is generated by plot.py at 2018-03-27 08:09:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.974 ms

Loss rate: 0.64%

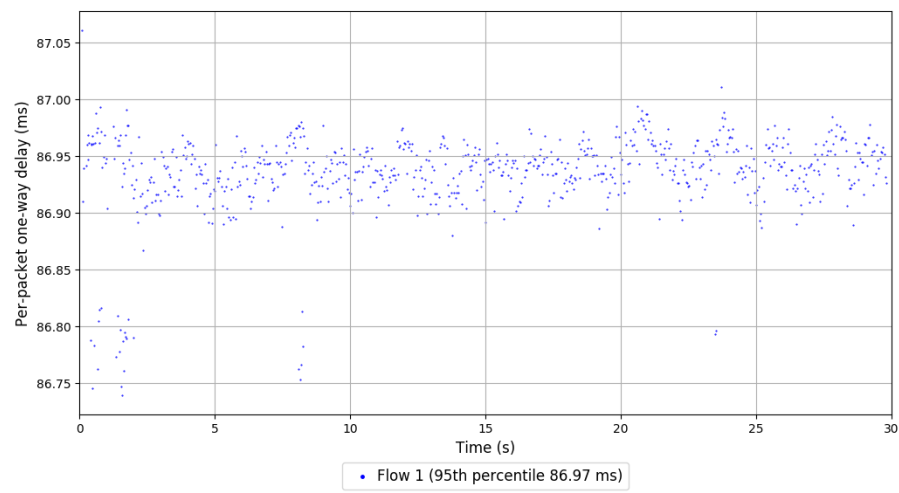
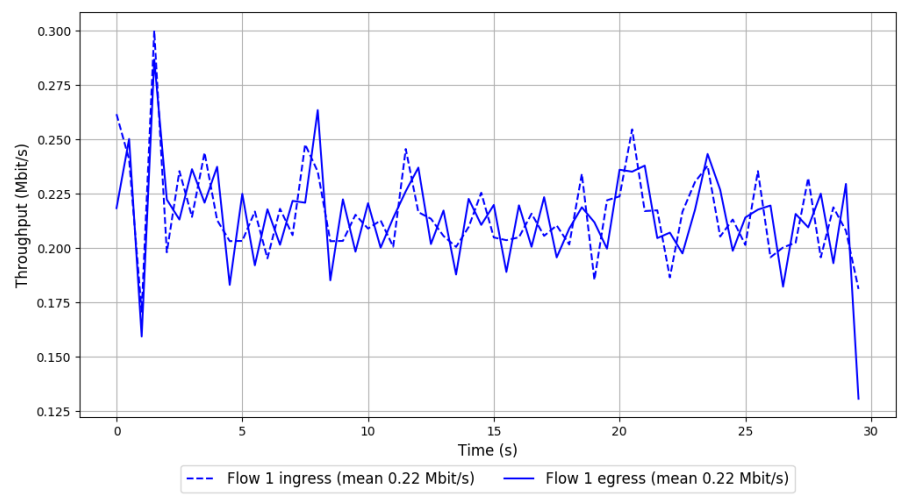
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.974 ms

Loss rate: 0.64%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-03-27 03:02:08

End at: 2018-03-27 03:02:38

Local clock offset: -5.725 ms

Remote clock offset: 8.076 ms

Below is generated by plot.py at 2018-03-27 08:09:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.704 ms

Loss rate: 0.64%

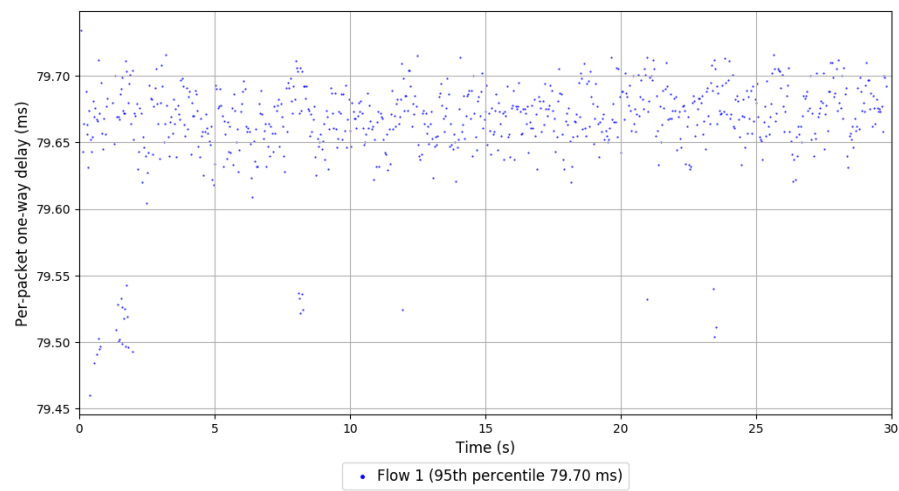
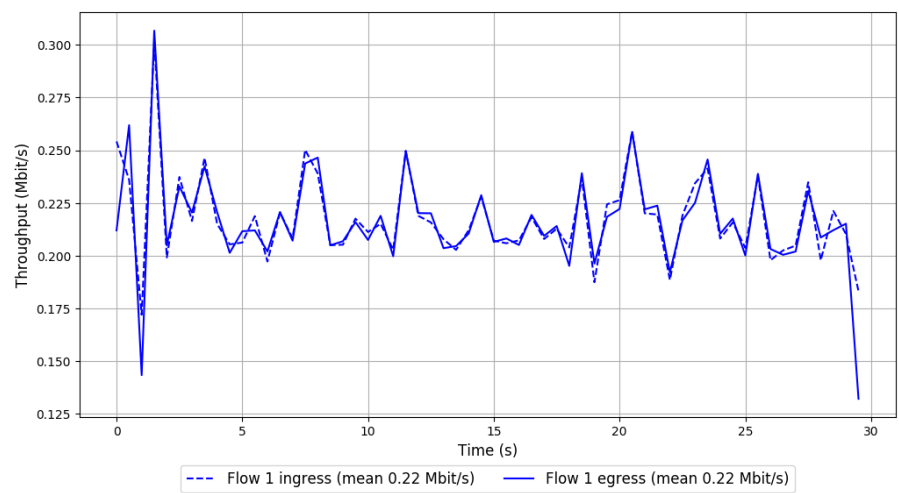
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.704 ms

Loss rate: 0.64%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-03-27 03:24:27

End at: 2018-03-27 03:24:57

Local clock offset: -6.29 ms

Remote clock offset: 9.083 ms

Below is generated by plot.py at 2018-03-27 08:09:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.418 ms

Loss rate: 0.64%

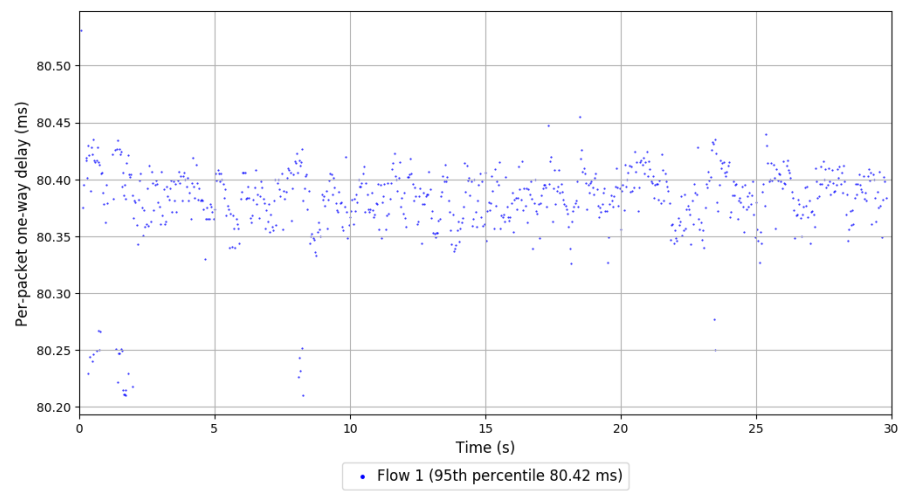
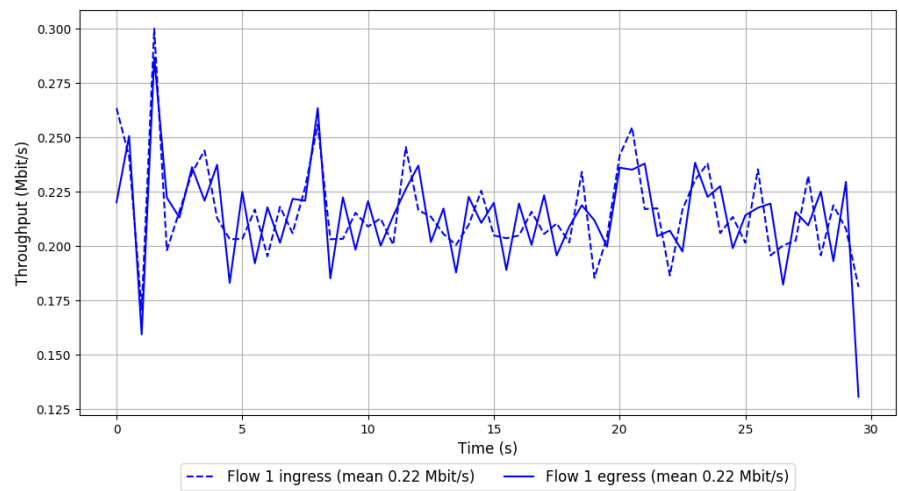
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.418 ms

Loss rate: 0.64%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-03-27 03:46:45

End at: 2018-03-27 03:47:15

Local clock offset: -5.319 ms

Remote clock offset: 8.212 ms

Below is generated by plot.py at 2018-03-27 08:09:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 82.290 ms

Loss rate: 0.64%

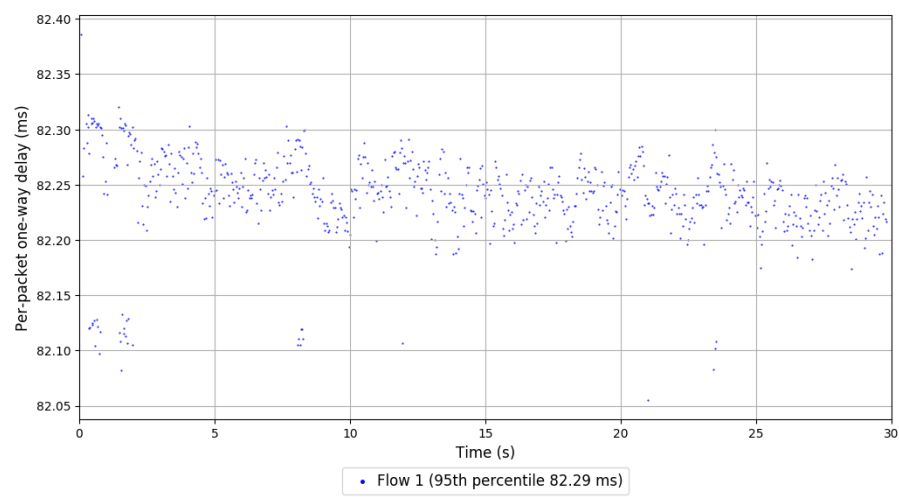
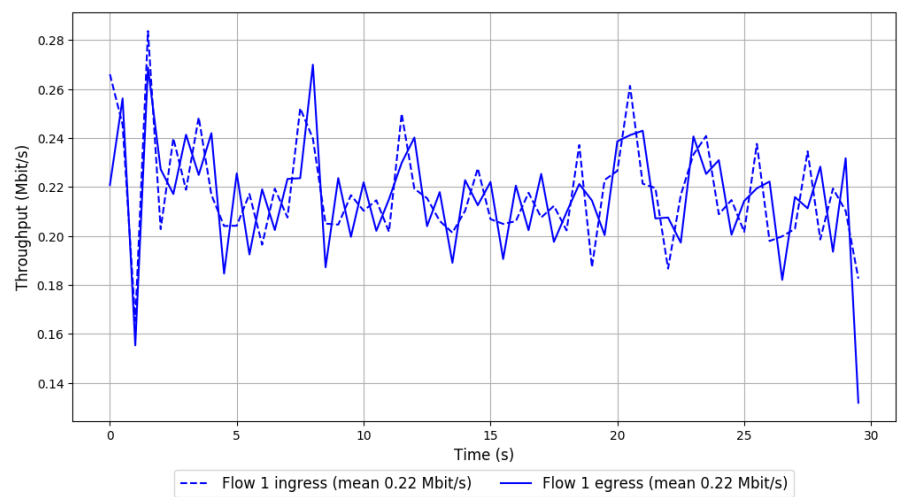
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 82.290 ms

Loss rate: 0.64%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-03-27 04:08:58

End at: 2018-03-27 04:09:28

Local clock offset: -4.619 ms

Remote clock offset: 7.924 ms

Below is generated by plot.py at 2018-03-27 08:09:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 80.455 ms

Loss rate: 0.64%

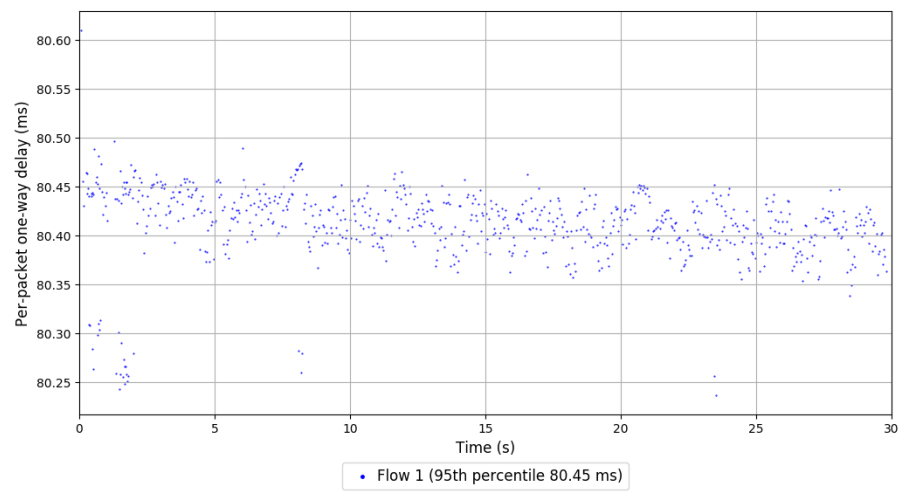
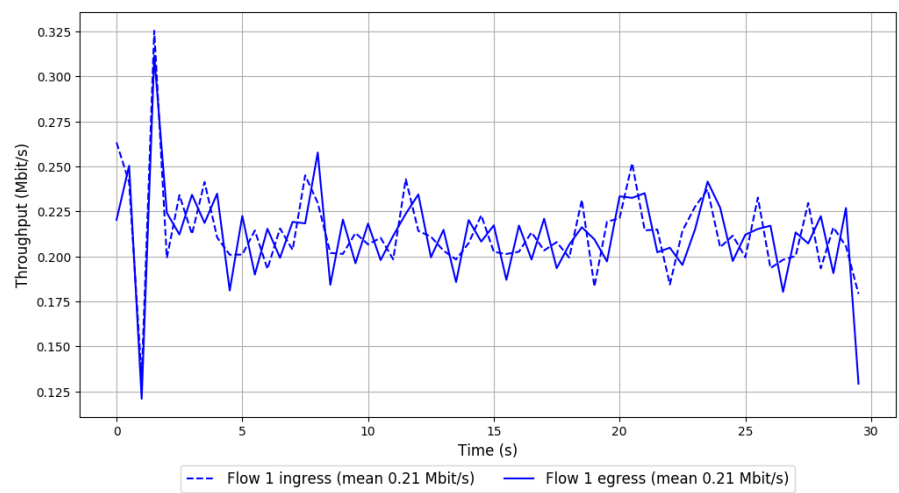
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 80.455 ms

Loss rate: 0.64%

Run 10: Report of SCReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-03-27 00:43:26

End at: 2018-03-27 00:43:56

Local clock offset: 0.165 ms

Remote clock offset: 9.257 ms

Below is generated by plot.py at 2018-03-27 08:09:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 80.584 ms

Loss rate: 0.00%

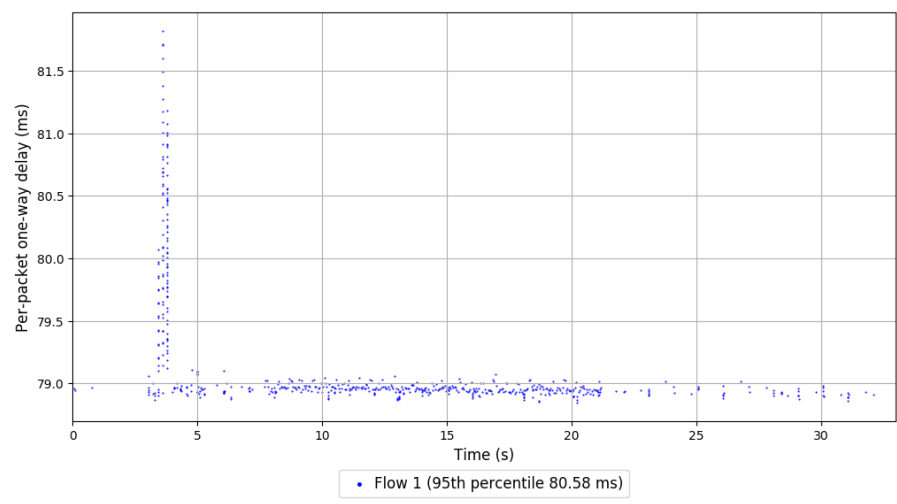
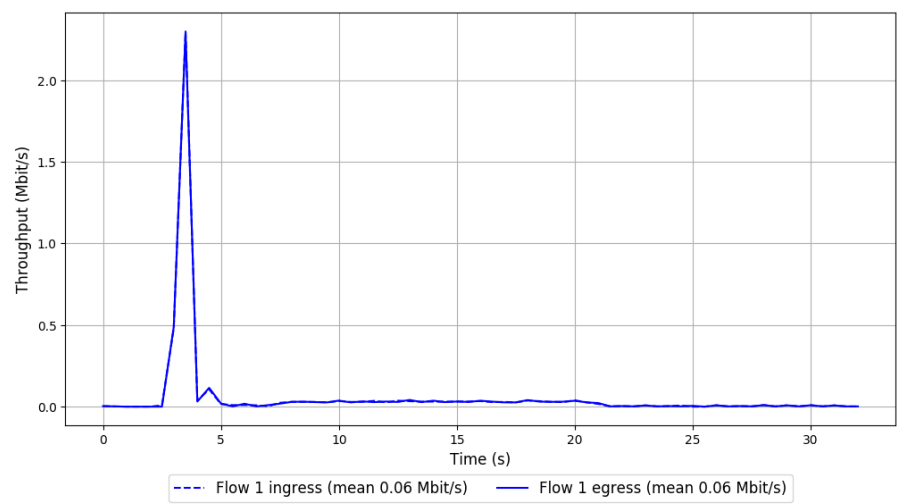
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 80.584 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-03-27 01:05:45

End at: 2018-03-27 01:06:15

Local clock offset: -3.778 ms

Remote clock offset: 3.47 ms

Below is generated by plot.py at 2018-03-27 08:09:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 86.695 ms

Loss rate: 0.00%

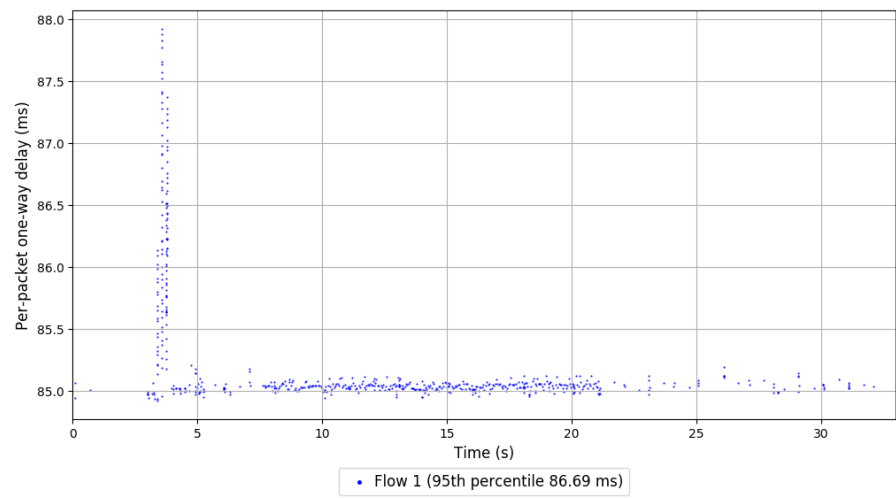
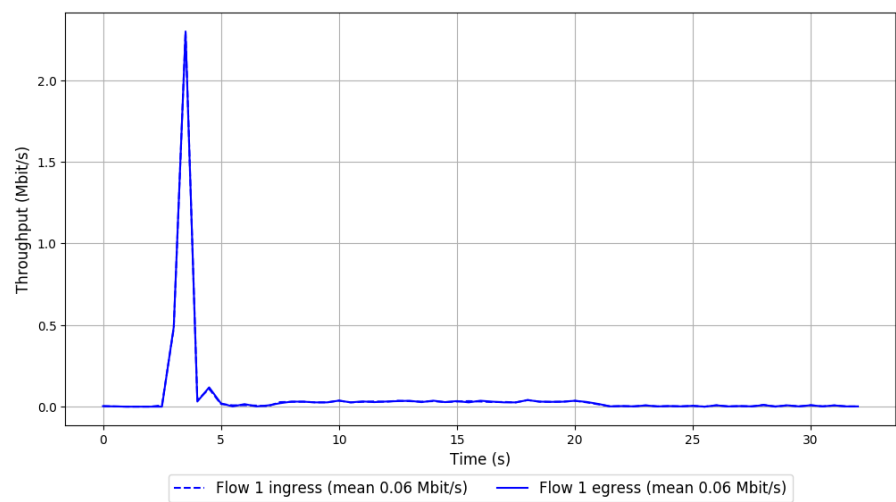
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 86.695 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-03-27 01:27:58

End at: 2018-03-27 01:28:28

Local clock offset: -4.284 ms

Remote clock offset: 9.17 ms

Below is generated by plot.py at 2018-03-27 08:09:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 80.776 ms

Loss rate: 0.00%

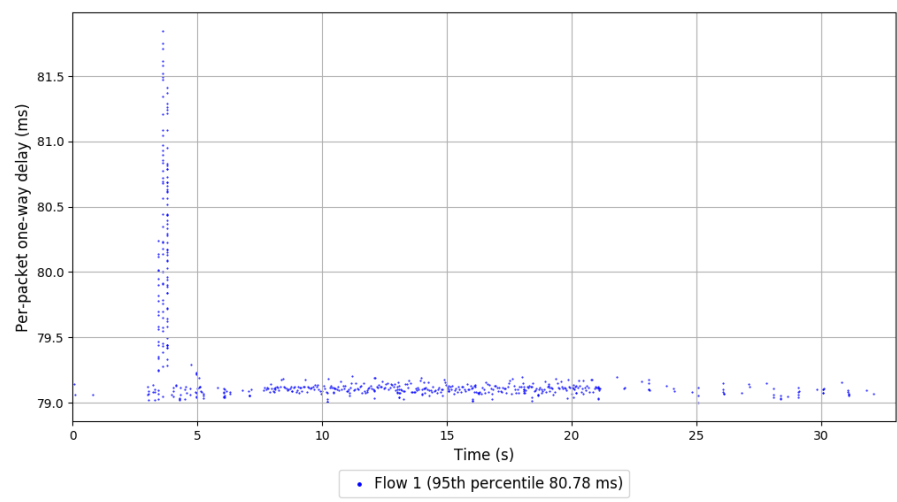
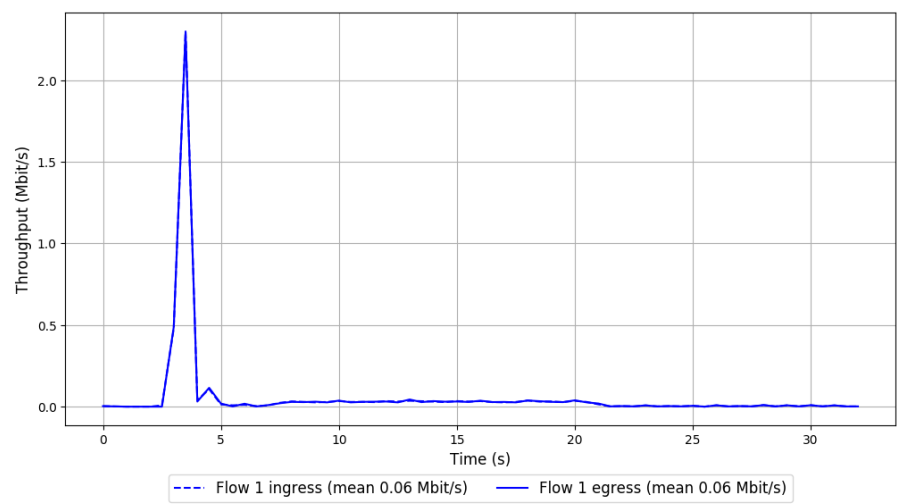
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 80.776 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-03-27 01:50:15

End at: 2018-03-27 01:50:45

Local clock offset: -4.27 ms

Remote clock offset: 3.049 ms

Below is generated by plot.py at 2018-03-27 08:09:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 86.410 ms

Loss rate: 0.23%

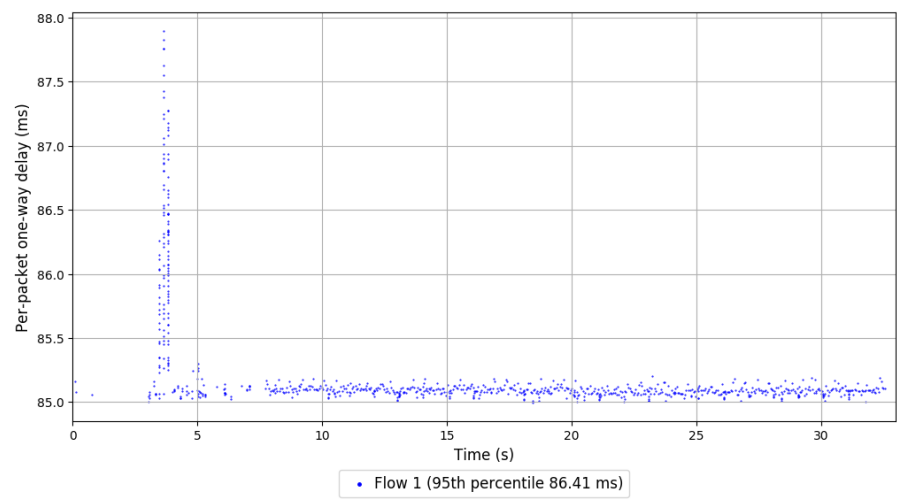
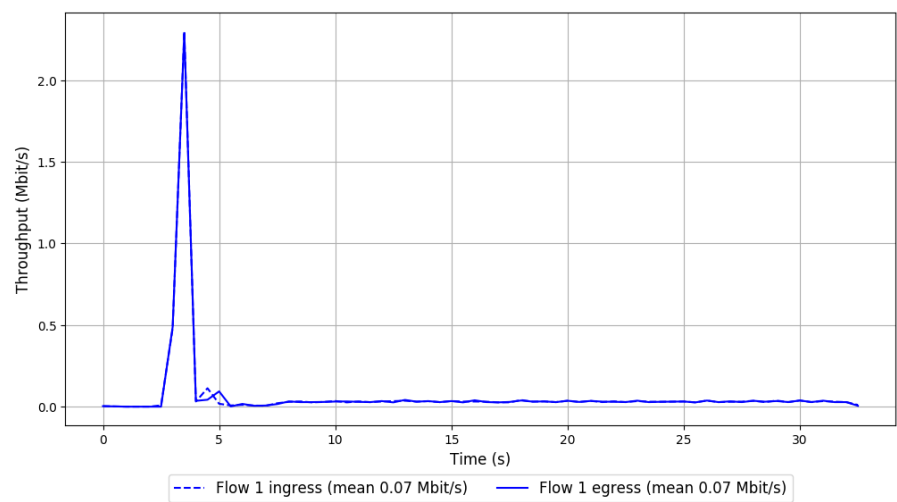
-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 86.410 ms

Loss rate: 0.23%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-03-27 02:12:28

End at: 2018-03-27 02:12:58

Local clock offset: -4.247 ms

Remote clock offset: 8.784 ms

Below is generated by plot.py at 2018-03-27 08:09:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 82.387 ms

Loss rate: 0.00%

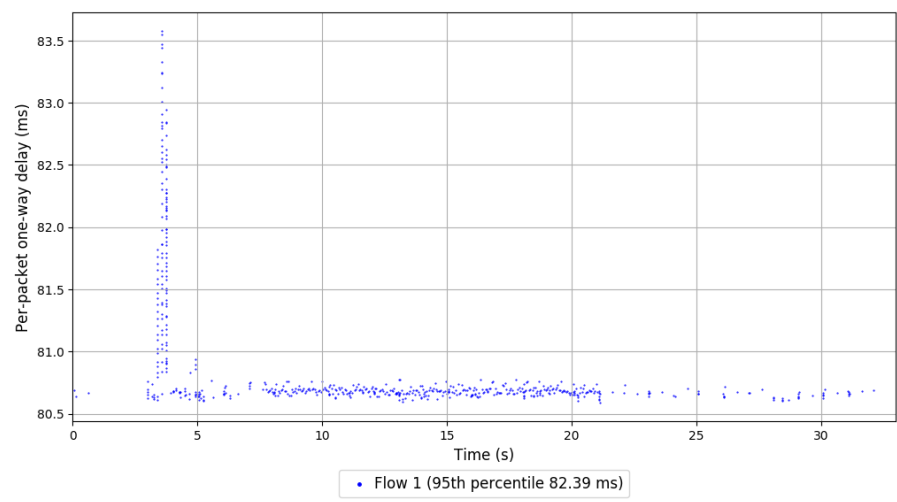
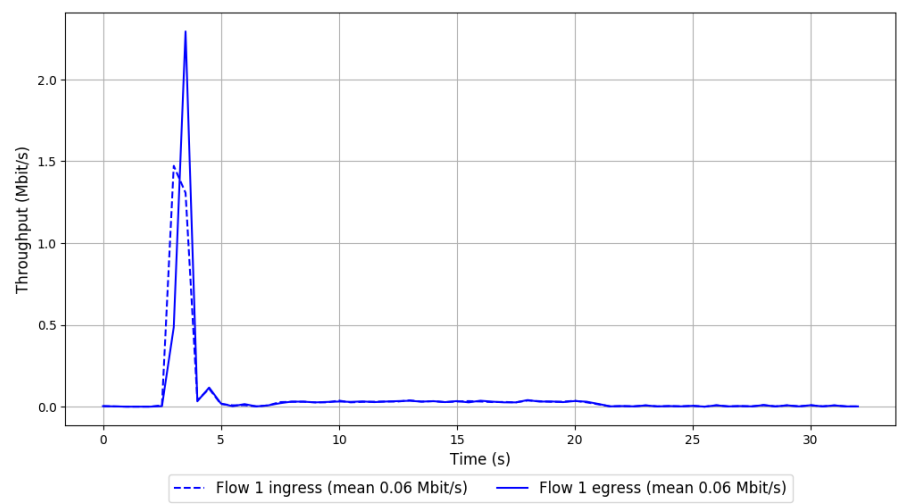
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 82.387 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-03-27 02:34:43

End at: 2018-03-27 02:35:13

Local clock offset: -4.911 ms

Remote clock offset: 8.603 ms

Below is generated by plot.py at 2018-03-27 08:09:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 80.725 ms

Loss rate: 0.00%

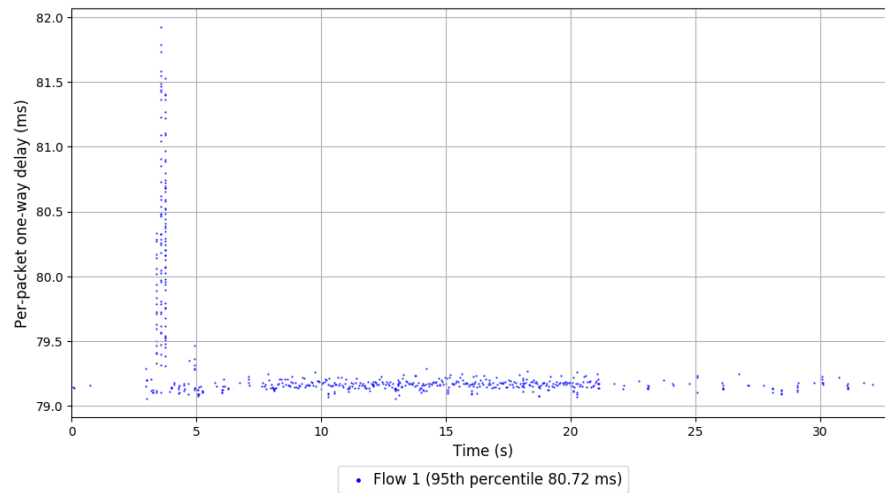
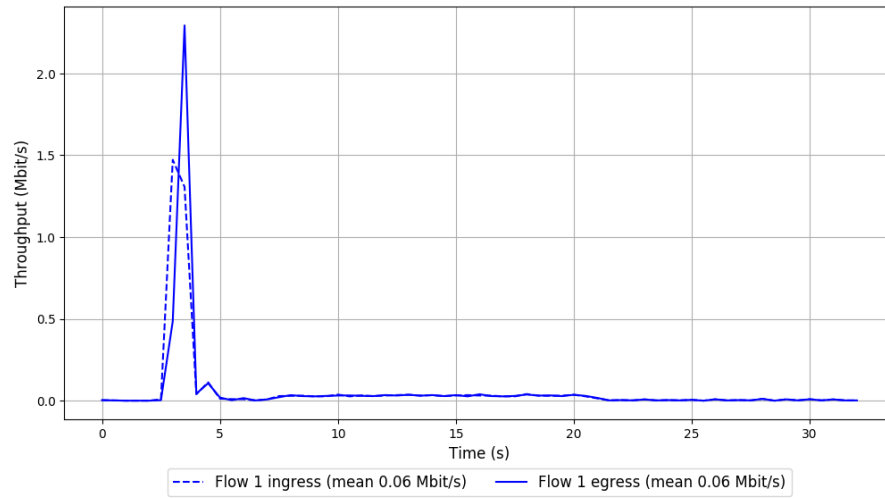
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 80.725 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-03-27 02:57:14

End at: 2018-03-27 02:57:44

Local clock offset: -5.718 ms

Remote clock offset: 9.005 ms

Below is generated by plot.py at 2018-03-27 08:09:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 80.214 ms

Loss rate: 0.04%

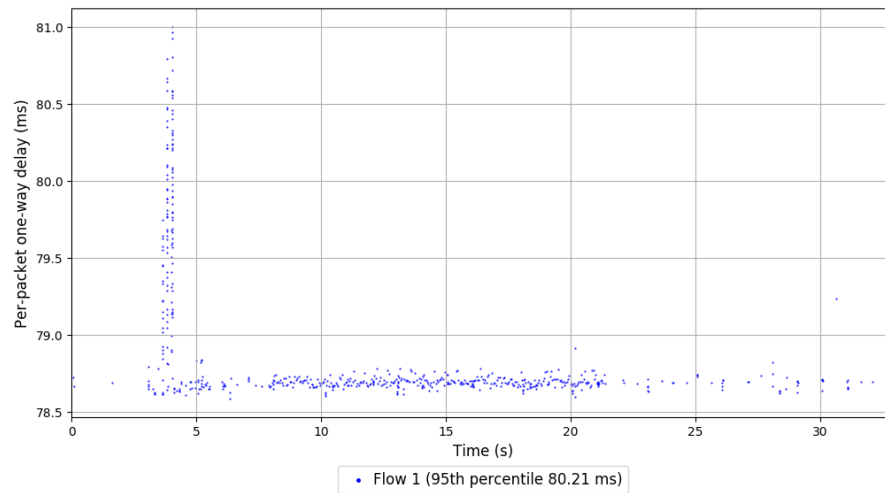
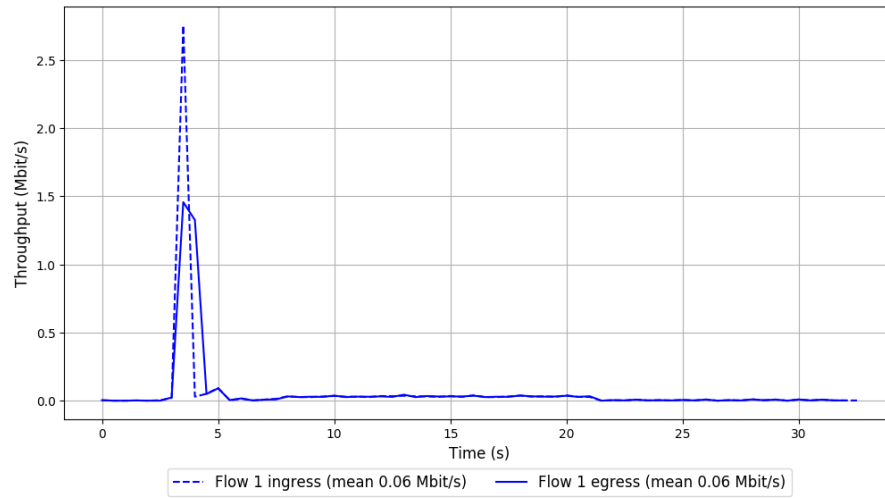
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 80.214 ms

Loss rate: 0.04%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-03-27 03:19:31

End at: 2018-03-27 03:20:01

Local clock offset: -6.186 ms

Remote clock offset: 8.607 ms

Below is generated by plot.py at 2018-03-27 08:09:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 81.494 ms

Loss rate: 0.00%

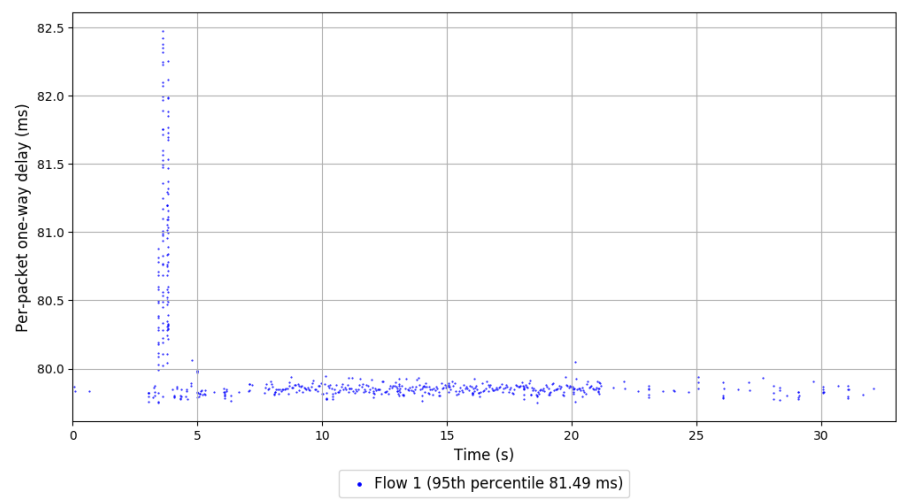
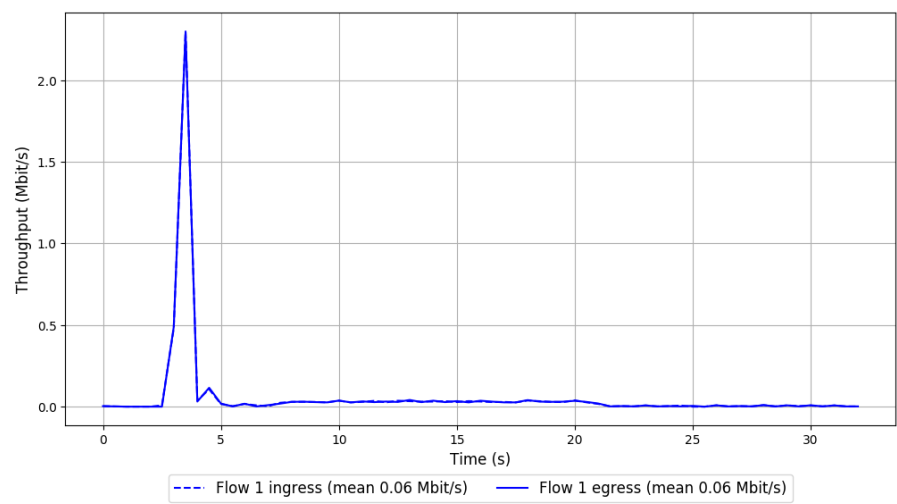
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 81.494 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-03-27 03:41:51

End at: 2018-03-27 03:42:21

Local clock offset: -5.836 ms

Remote clock offset: 3.356 ms

Below is generated by plot.py at 2018-03-27 08:09:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 86.227 ms

Loss rate: 0.00%

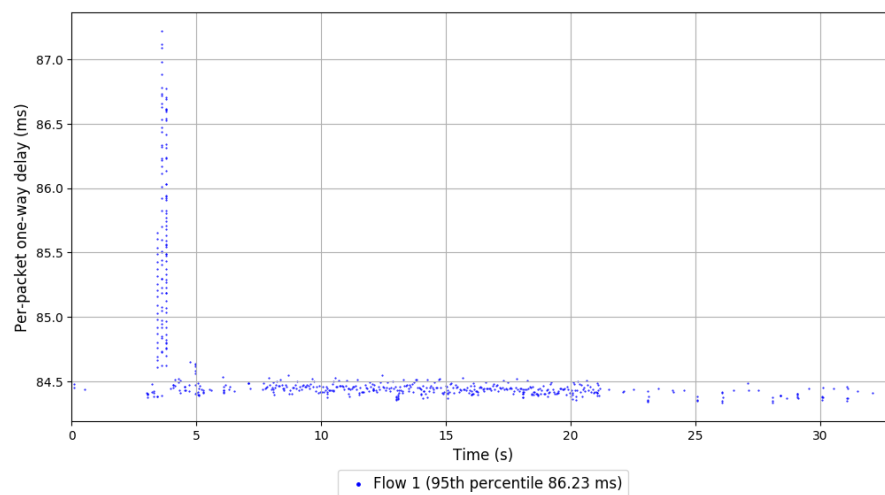
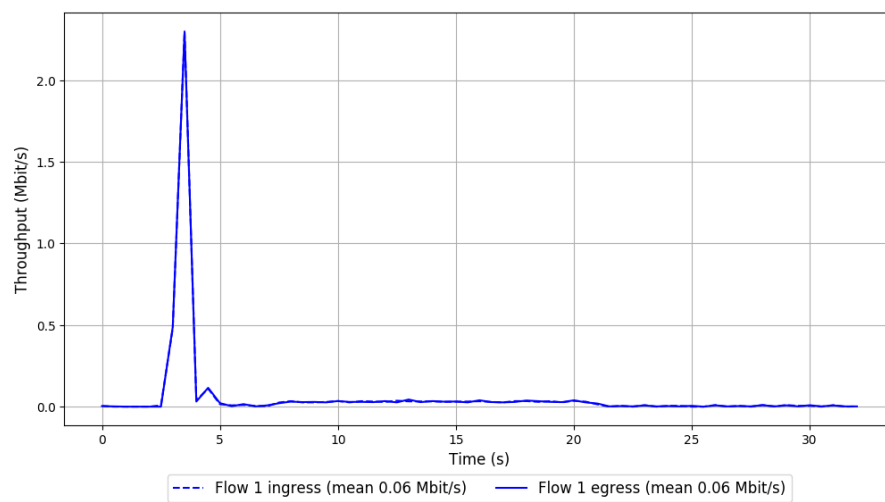
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 86.227 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-03-27 04:04:04

End at: 2018-03-27 04:04:34

Local clock offset: -4.648 ms

Remote clock offset: 2.527 ms

Below is generated by plot.py at 2018-03-27 08:09:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 89.199 ms

Loss rate: 0.00%

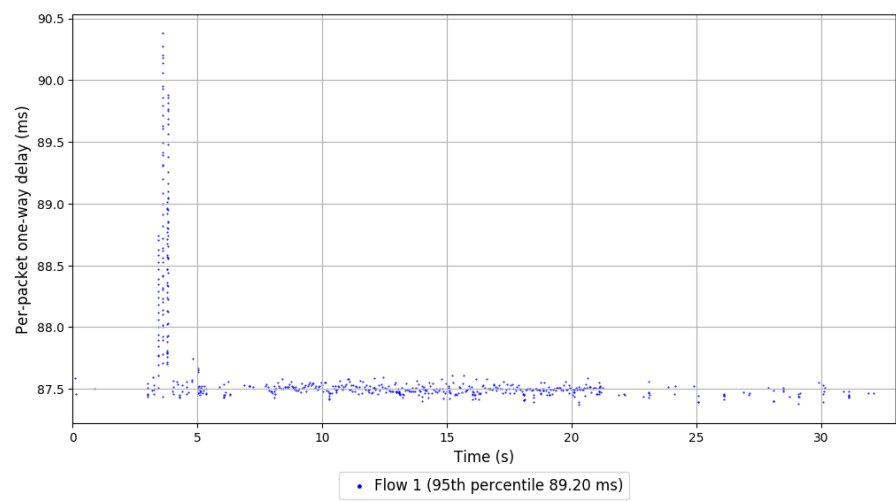
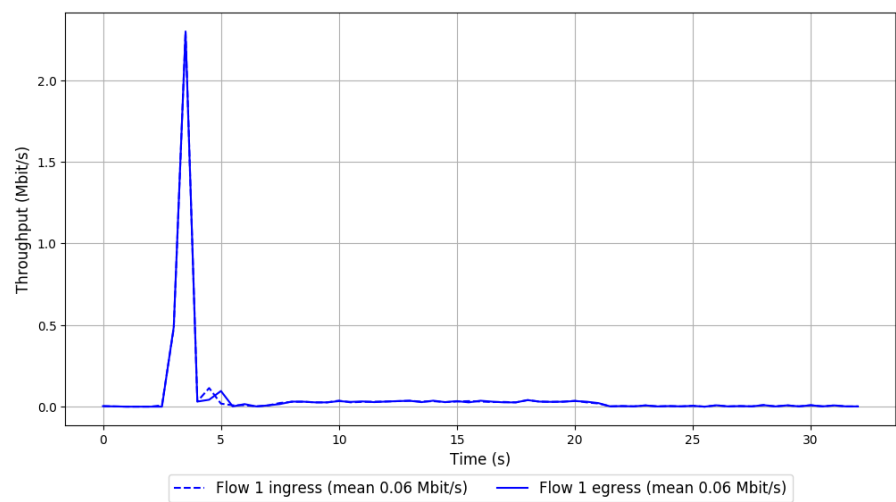
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 89.199 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-03-27 00:33:32

End at: 2018-03-27 00:34:02

Local clock offset: 2.576 ms

Remote clock offset: 9.322 ms

Below is generated by plot.py at 2018-03-27 08:09:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.01 Mbit/s

95th percentile per-packet one-way delay: 91.948 ms

Loss rate: 0.54%

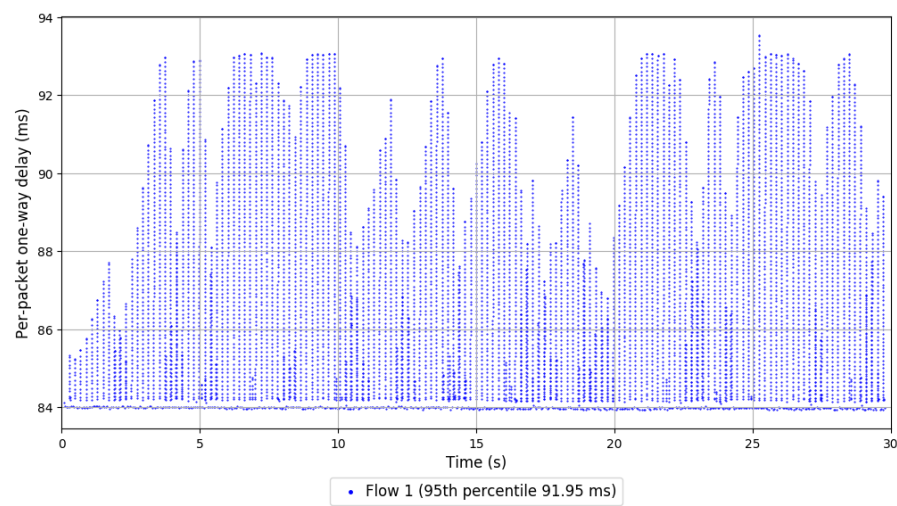
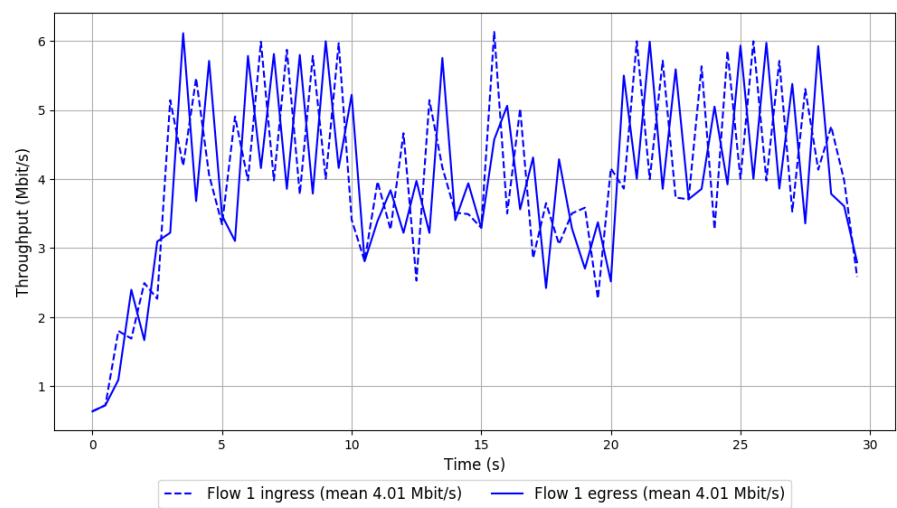
-- Flow 1:

Average throughput: 4.01 Mbit/s

95th percentile per-packet one-way delay: 91.948 ms

Loss rate: 0.54%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-03-27 00:55:47

End at: 2018-03-27 00:56:17

Local clock offset: -2.72 ms

Remote clock offset: 3.355 ms

Below is generated by plot.py at 2018-03-27 08:09:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.00 Mbit/s

95th percentile per-packet one-way delay: 94.663 ms

Loss rate: 0.08%

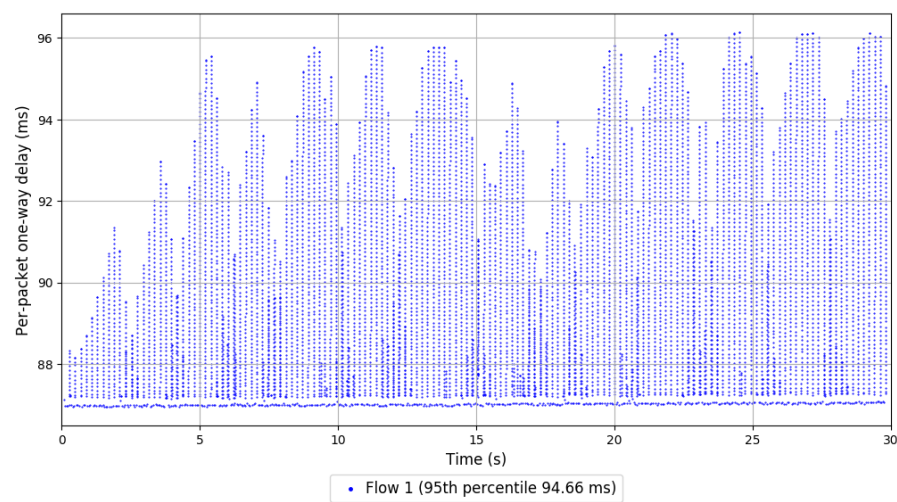
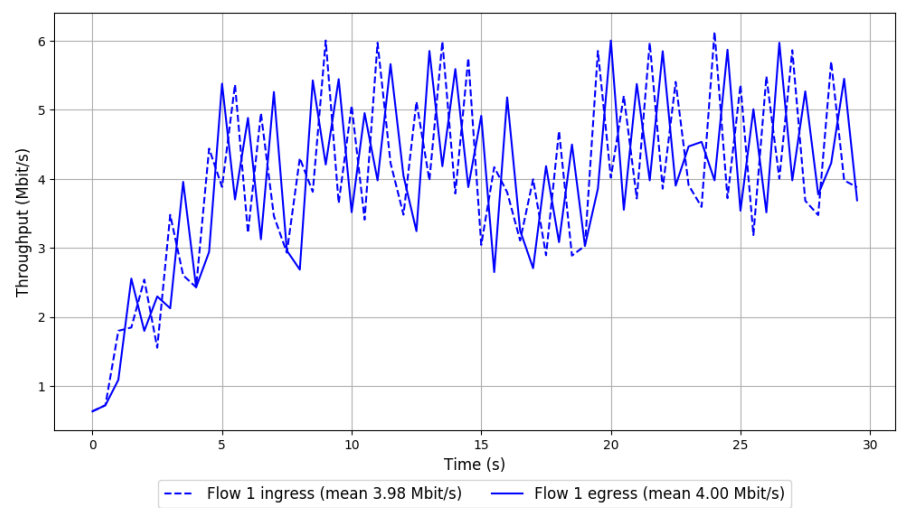
-- Flow 1:

Average throughput: 4.00 Mbit/s

95th percentile per-packet one-way delay: 94.663 ms

Loss rate: 0.08%

Run 2: Report of Sprout — Data Link

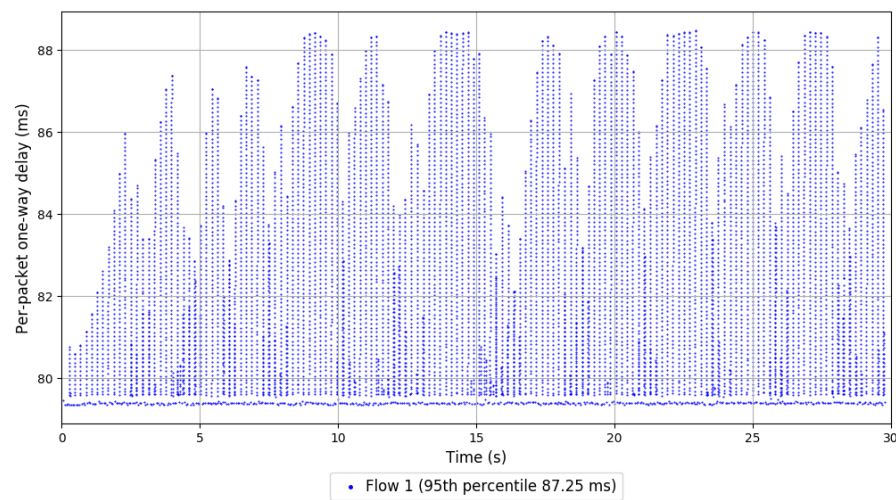
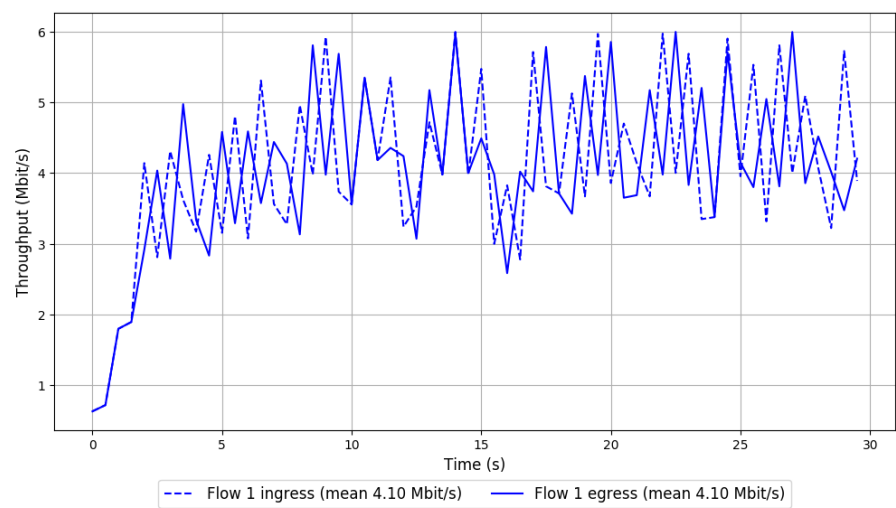


Run 3: Statistics of Sprout

Start at: 2018-03-27 01:18:08
End at: 2018-03-27 01:18:38
Local clock offset: -4.338 ms
Remote clock offset: 8.955 ms

Below is generated by plot.py at 2018-03-27 08:09:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.10 Mbit/s
95th percentile per-packet one-way delay: 87.251 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 4.10 Mbit/s
95th percentile per-packet one-way delay: 87.251 ms
Loss rate: 0.79%

Run 3: Report of Sprout — Data Link

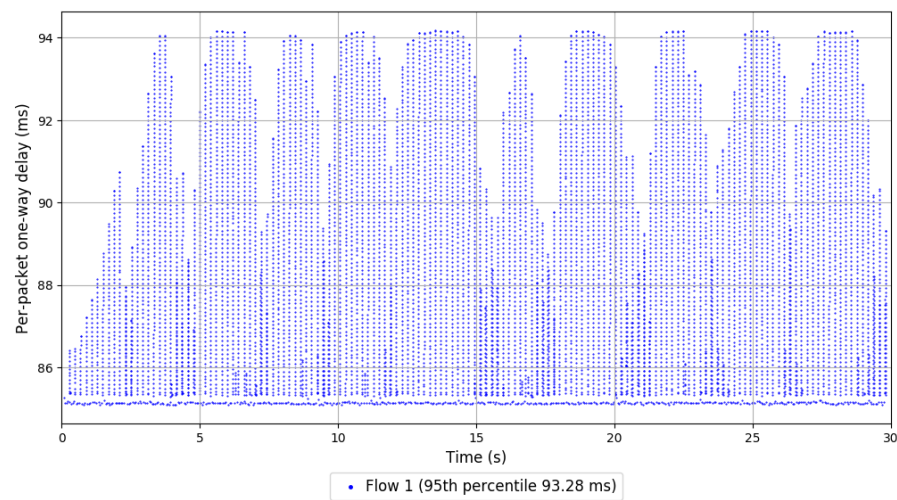
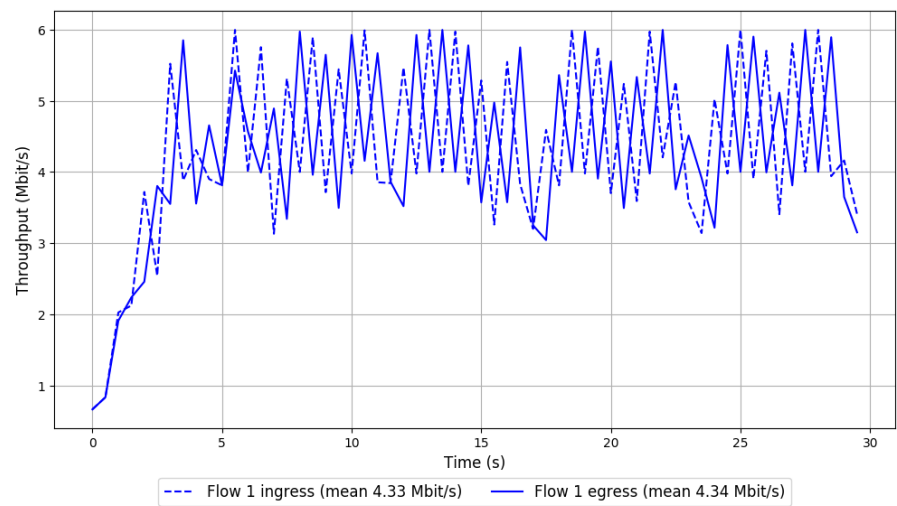


Run 4: Statistics of Sprout

Start at: 2018-03-27 01:40:19
End at: 2018-03-27 01:40:49
Local clock offset: -4.223 ms
Remote clock offset: 3.193 ms

Below is generated by plot.py at 2018-03-27 08:09:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: 93.280 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: 93.280 ms
Loss rate: 0.31%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-03-27 02:02:35

End at: 2018-03-27 02:03:05

Local clock offset: -4.302 ms

Remote clock offset: 8.675 ms

Below is generated by plot.py at 2018-03-27 08:09:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 87.162 ms

Loss rate: 0.82%

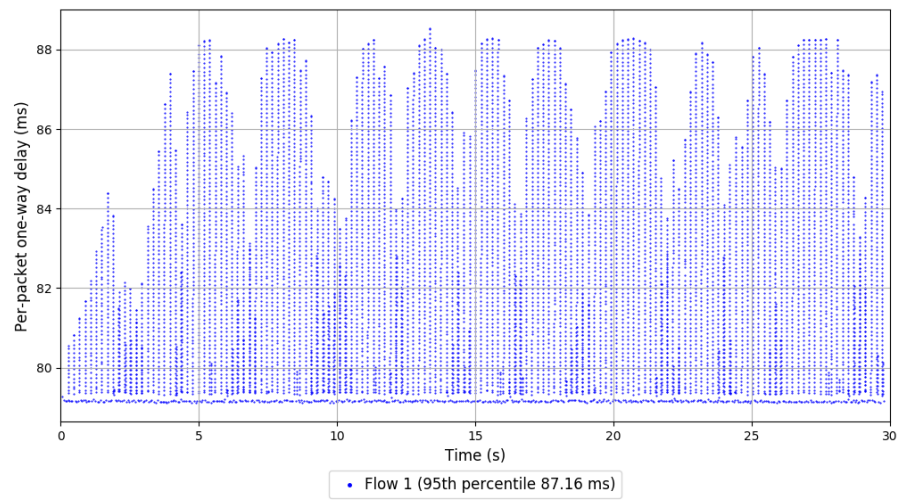
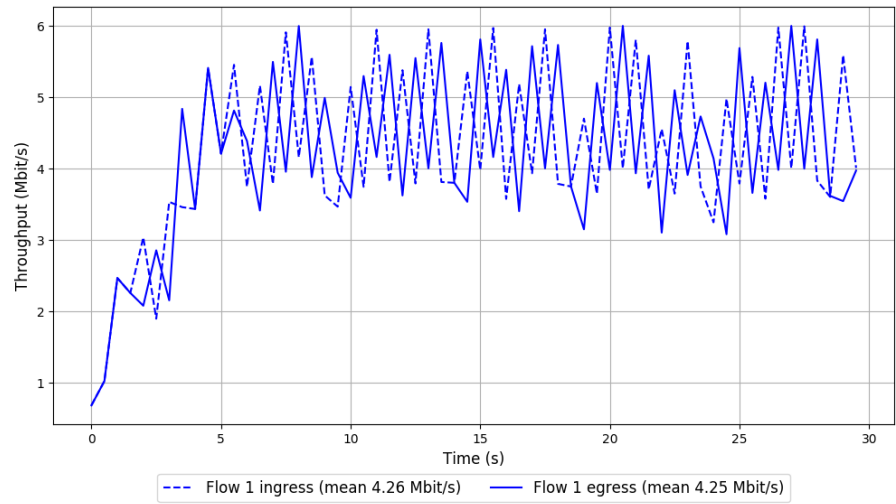
-- Flow 1:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 87.162 ms

Loss rate: 0.82%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-03-27 02:24:50

End at: 2018-03-27 02:25:20

Local clock offset: -4.296 ms

Remote clock offset: 2.631 ms

Below is generated by plot.py at 2018-03-27 08:09:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.40 Mbit/s

95th percentile per-packet one-way delay: 92.934 ms

Loss rate: 0.79%

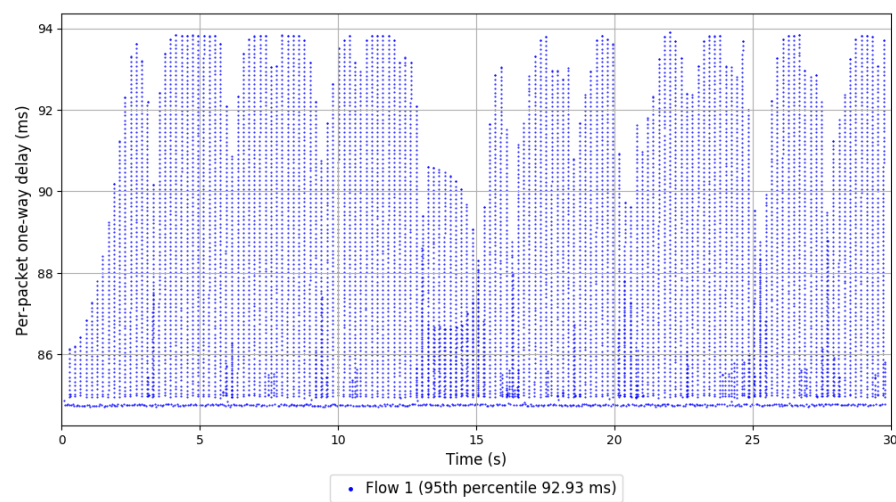
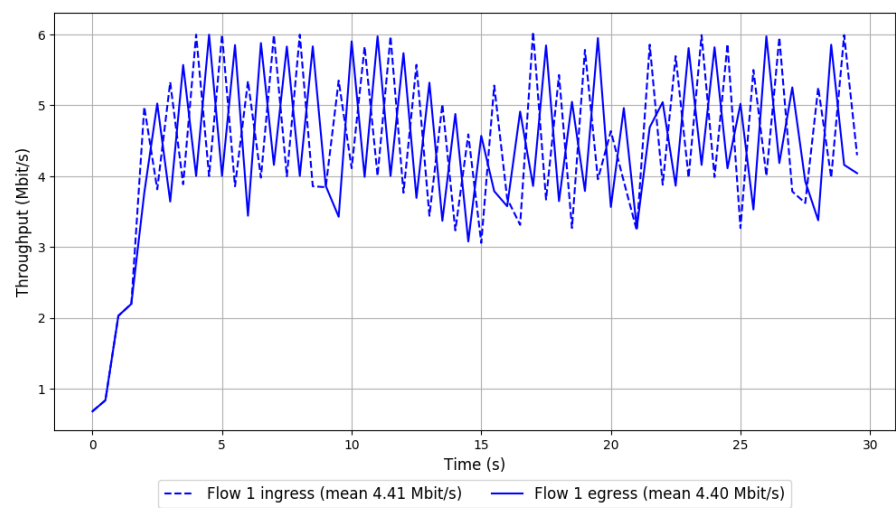
-- Flow 1:

Average throughput: 4.40 Mbit/s

95th percentile per-packet one-way delay: 92.934 ms

Loss rate: 0.79%

Run 6: Report of Sprout — Data Link

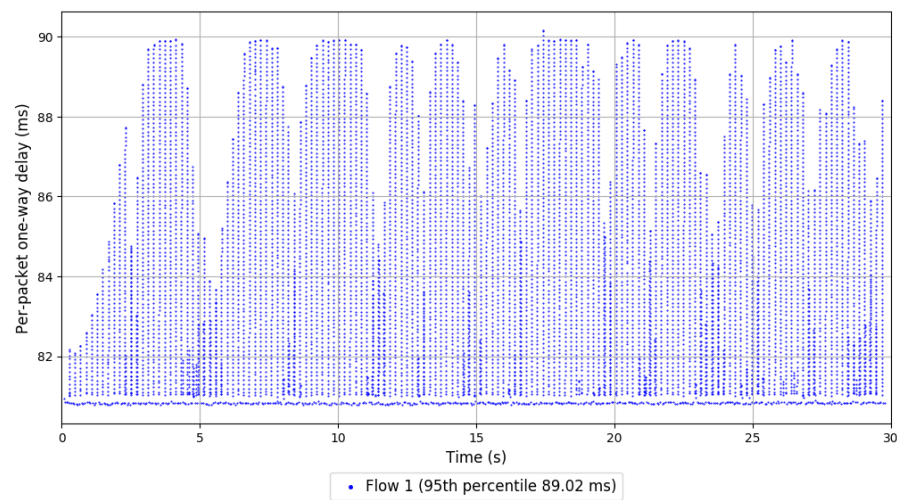
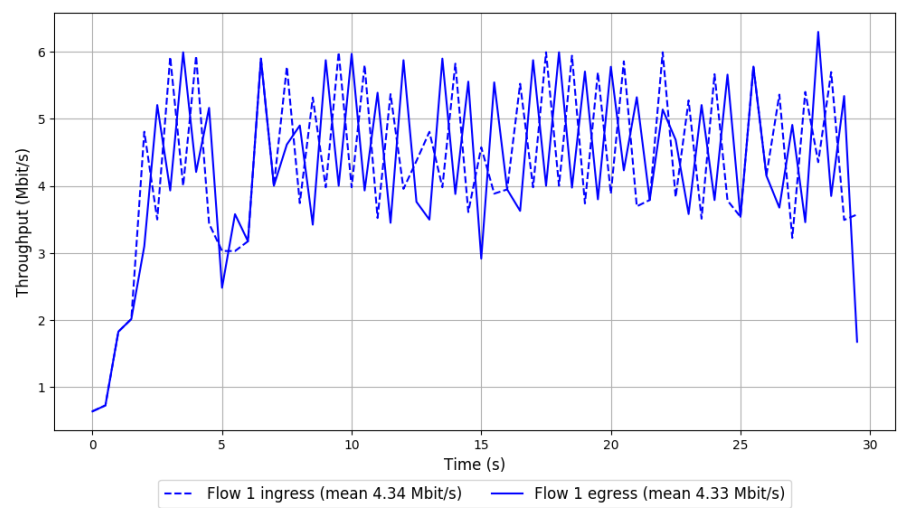


Run 7: Statistics of Sprout

Start at: 2018-03-27 02:47:02
End at: 2018-03-27 02:47:32
Local clock offset: -5.387 ms
Remote clock offset: 8.456 ms

Below is generated by plot.py at 2018-03-27 08:09:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.33 Mbit/s
95th percentile per-packet one-way delay: 89.019 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 4.33 Mbit/s
95th percentile per-packet one-way delay: 89.019 ms
Loss rate: 0.74%

Run 7: Report of Sprout — Data Link

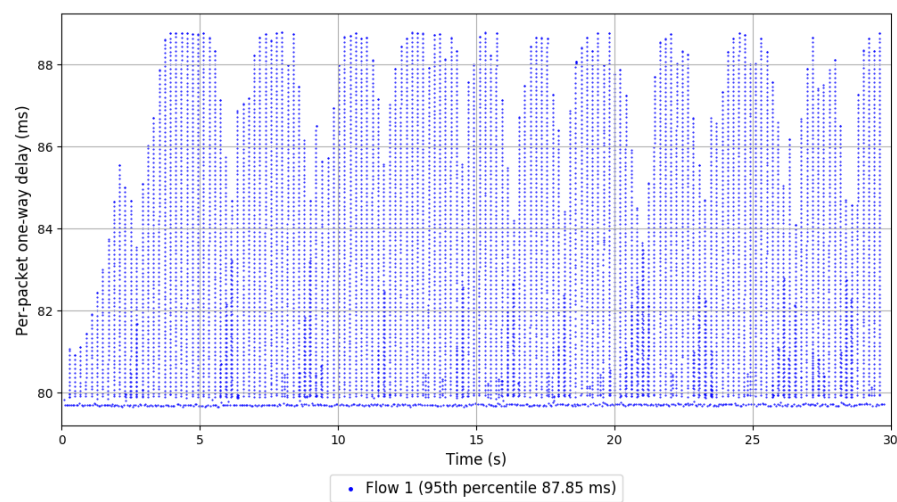
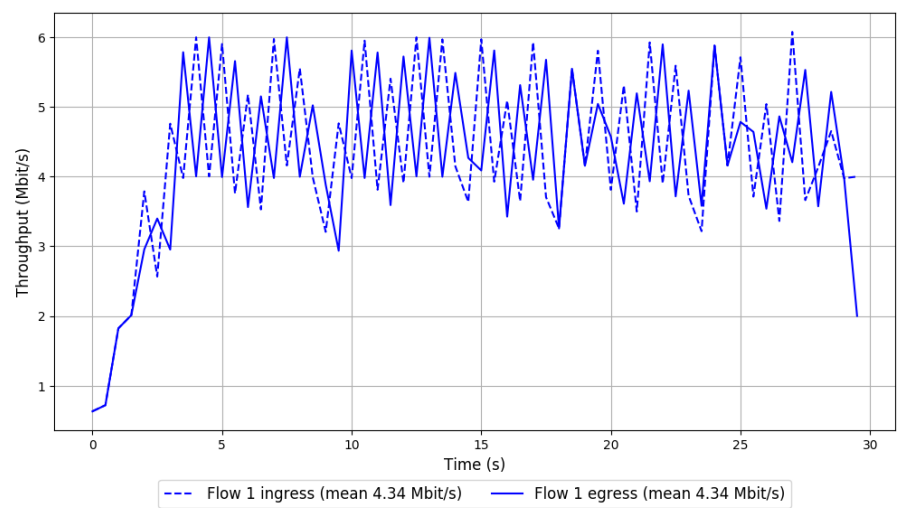


Run 8: Statistics of Sprout

Start at: 2018-03-27 03:09:35
End at: 2018-03-27 03:10:05
Local clock offset: -6.023 ms
Remote clock offset: 7.981 ms

Below is generated by plot.py at 2018-03-27 08:09:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: 87.848 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: 87.848 ms
Loss rate: 0.77%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-03-27 03:31:56

End at: 2018-03-27 03:32:26

Local clock offset: -6.522 ms

Remote clock offset: 3.218 ms

Below is generated by plot.py at 2018-03-27 08:09:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.26 Mbit/s

95th percentile per-packet one-way delay: 92.282 ms

Loss rate: 0.43%

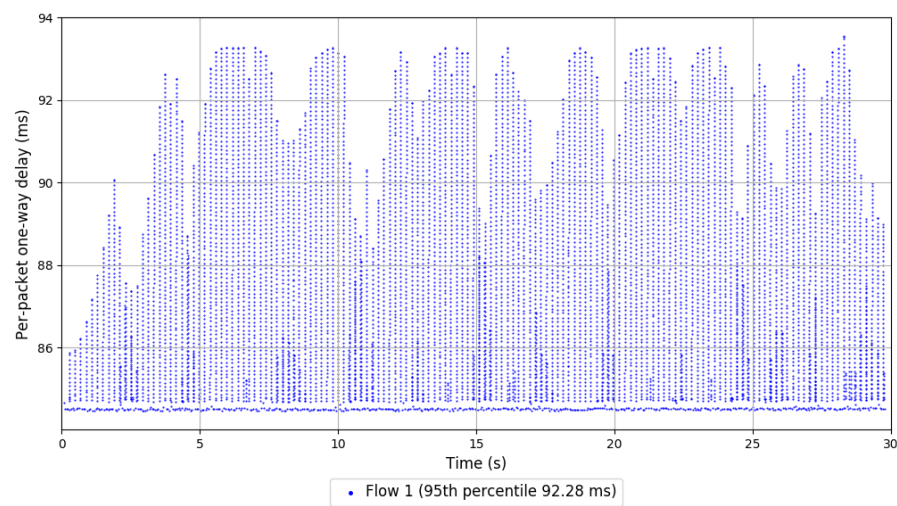
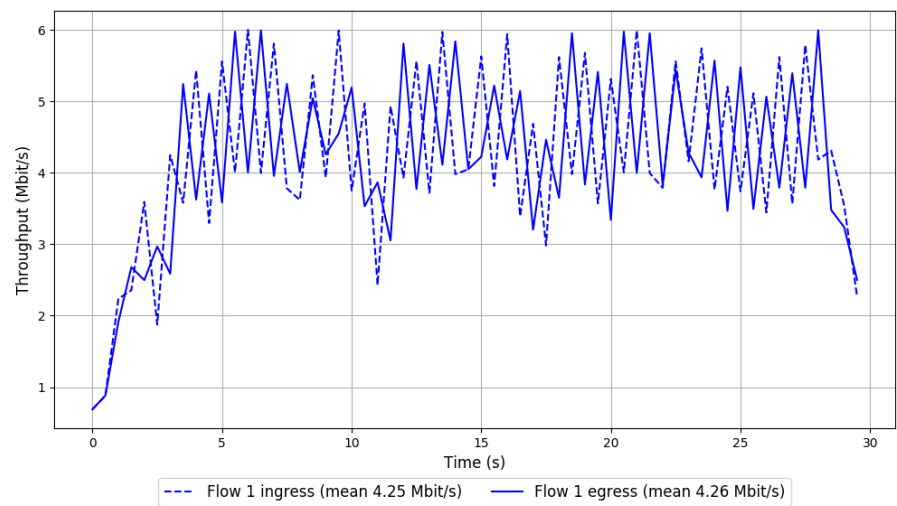
-- Flow 1:

Average throughput: 4.26 Mbit/s

95th percentile per-packet one-way delay: 92.282 ms

Loss rate: 0.43%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-03-27 03:54:11

End at: 2018-03-27 03:54:41

Local clock offset: -4.93 ms

Remote clock offset: 8.731 ms

Below is generated by plot.py at 2018-03-27 08:09:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.27 Mbit/s

95th percentile per-packet one-way delay: 87.755 ms

Loss rate: 0.72%

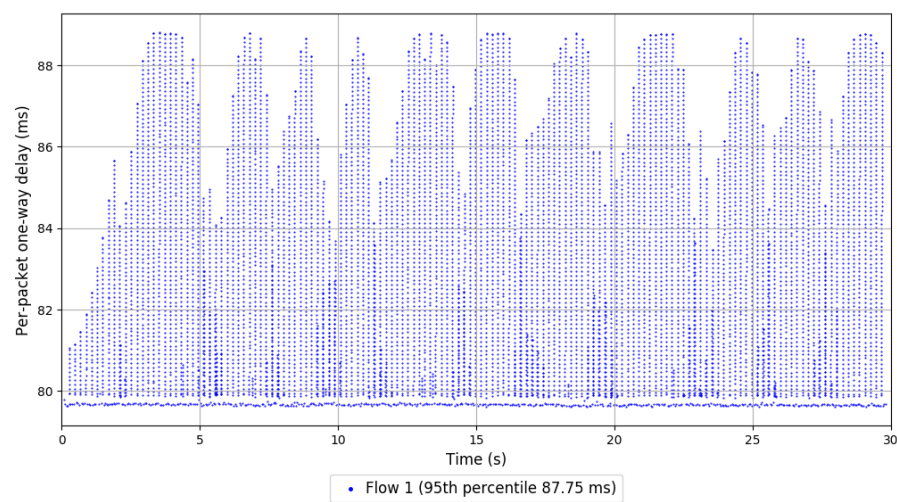
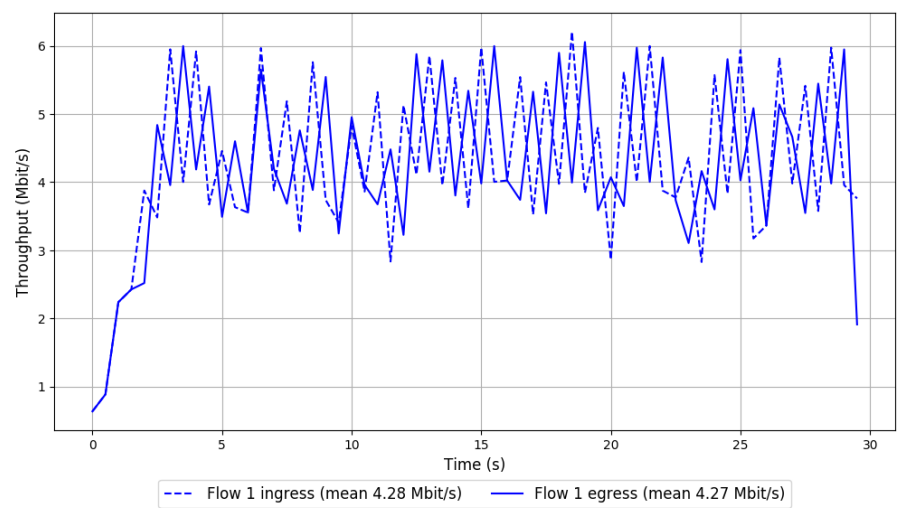
-- Flow 1:

Average throughput: 4.27 Mbit/s

95th percentile per-packet one-way delay: 87.755 ms

Loss rate: 0.72%

Run 10: Report of Sprout — Data Link

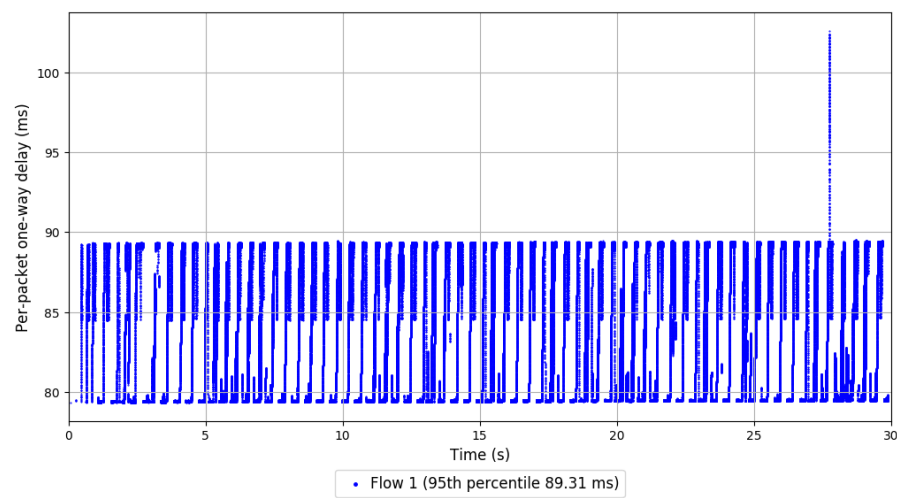
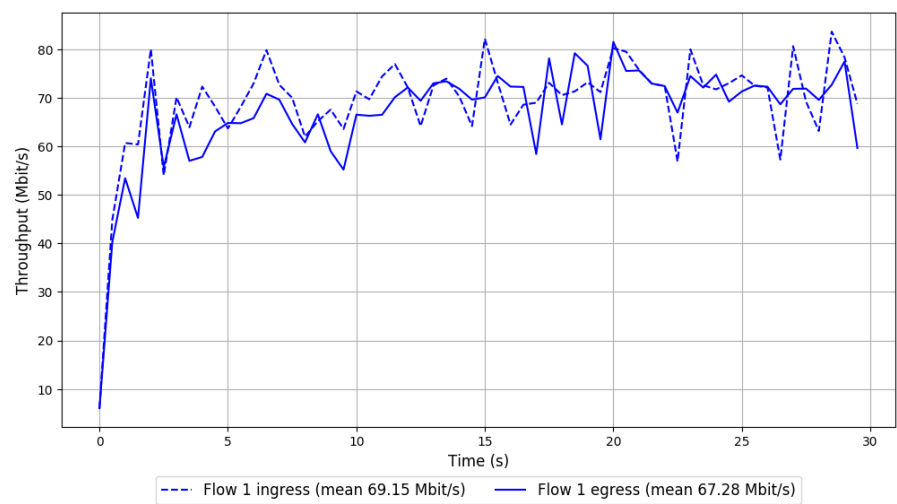


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-03-27 00:52:00
End at: 2018-03-27 00:52:30
Local clock offset: -1.954 ms
Remote clock offset: 9.164 ms

# Below is generated by plot.py at 2018-03-27 08:10:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.28 Mbit/s
95th percentile per-packet one-way delay: 89.306 ms
Loss rate: 3.30%
-- Flow 1:
Average throughput: 67.28 Mbit/s
95th percentile per-packet one-way delay: 89.306 ms
Loss rate: 3.30%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-03-27 01:14:21

End at: 2018-03-27 01:14:51

Local clock offset: -4.135 ms

Remote clock offset: 8.657 ms

Below is generated by plot.py at 2018-03-27 08:10:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.95 Mbit/s

95th percentile per-packet one-way delay: 89.852 ms

Loss rate: 0.83%

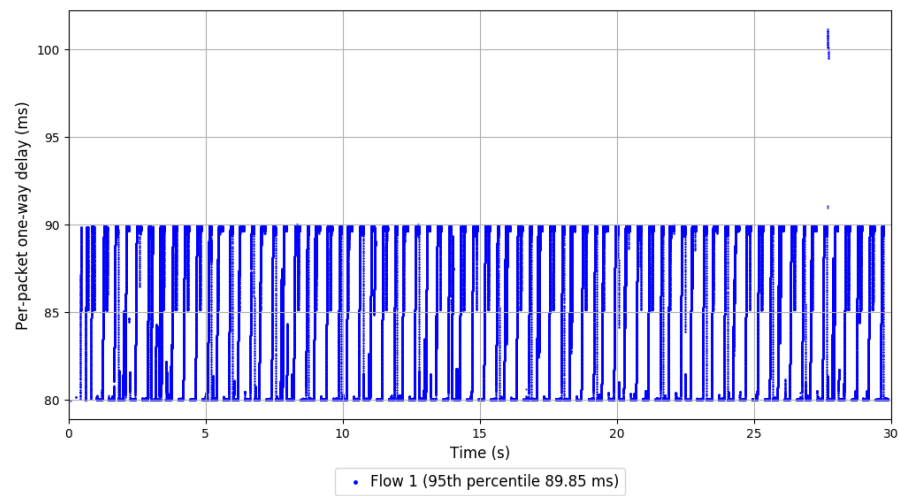
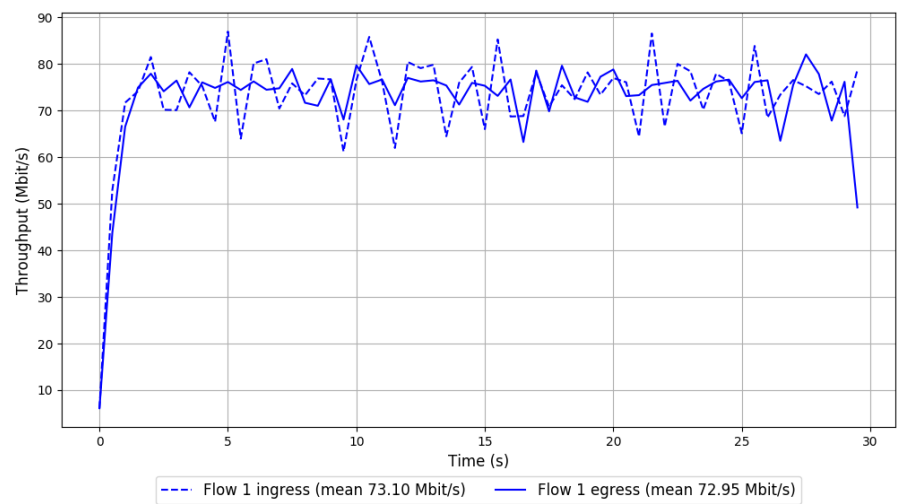
-- Flow 1:

Average throughput: 72.95 Mbit/s

95th percentile per-packet one-way delay: 89.852 ms

Loss rate: 0.83%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-03-27 01:36:32

End at: 2018-03-27 01:37:02

Local clock offset: -4.278 ms

Remote clock offset: 3.194 ms

Below is generated by plot.py at 2018-03-27 08:10:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.75 Mbit/s

95th percentile per-packet one-way delay: 95.022 ms

Loss rate: 8.08%

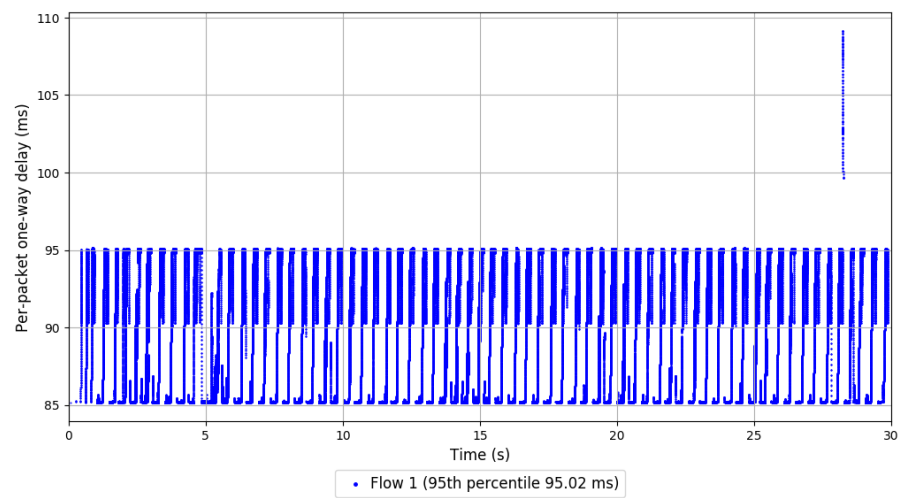
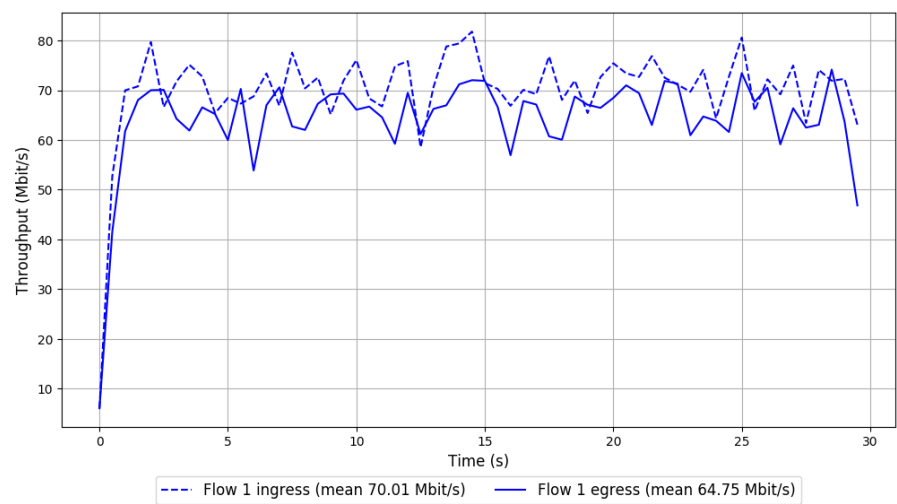
-- Flow 1:

Average throughput: 64.75 Mbit/s

95th percentile per-packet one-way delay: 95.022 ms

Loss rate: 8.08%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-03-27 01:58:49

End at: 2018-03-27 01:59:19

Local clock offset: -4.268 ms

Remote clock offset: 8.735 ms

Below is generated by plot.py at 2018-03-27 08:10:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.30 Mbit/s

95th percentile per-packet one-way delay: 90.963 ms

Loss rate: 0.71%

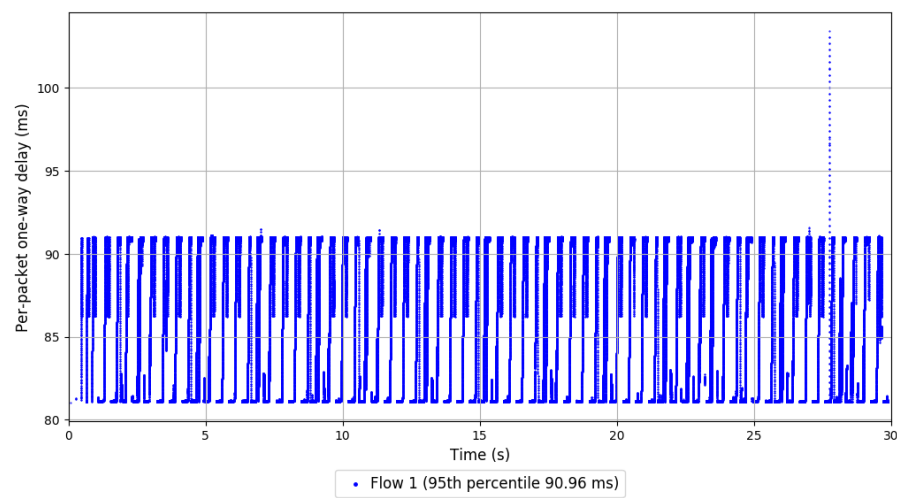
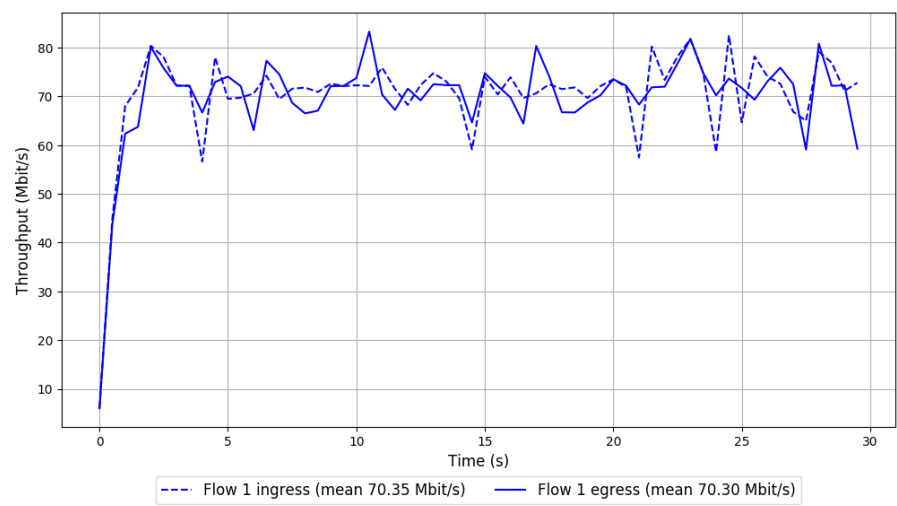
-- Flow 1:

Average throughput: 70.30 Mbit/s

95th percentile per-packet one-way delay: 90.963 ms

Loss rate: 0.71%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-03-27 02:21:03

End at: 2018-03-27 02:21:33

Local clock offset: -4.286 ms

Remote clock offset: 8.668 ms

Below is generated by plot.py at 2018-03-27 08:10:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.03 Mbit/s

95th percentile per-packet one-way delay: 89.136 ms

Loss rate: 0.56%

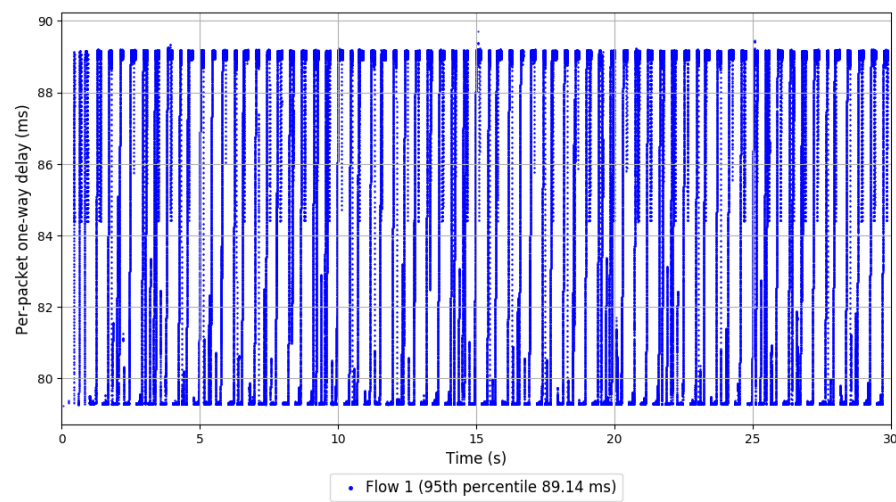
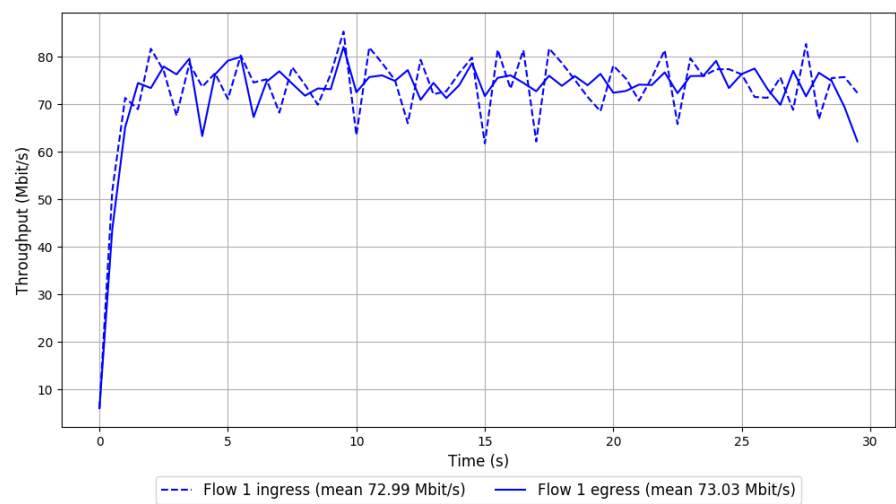
-- Flow 1:

Average throughput: 73.03 Mbit/s

95th percentile per-packet one-way delay: 89.136 ms

Loss rate: 0.56%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-03-27 02:43:16

End at: 2018-03-27 02:43:46

Local clock offset: -5.236 ms

Remote clock offset: 2.636 ms

Below is generated by plot.py at 2018-03-27 08:10:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.85 Mbit/s

95th percentile per-packet one-way delay: 96.515 ms

Loss rate: 0.84%

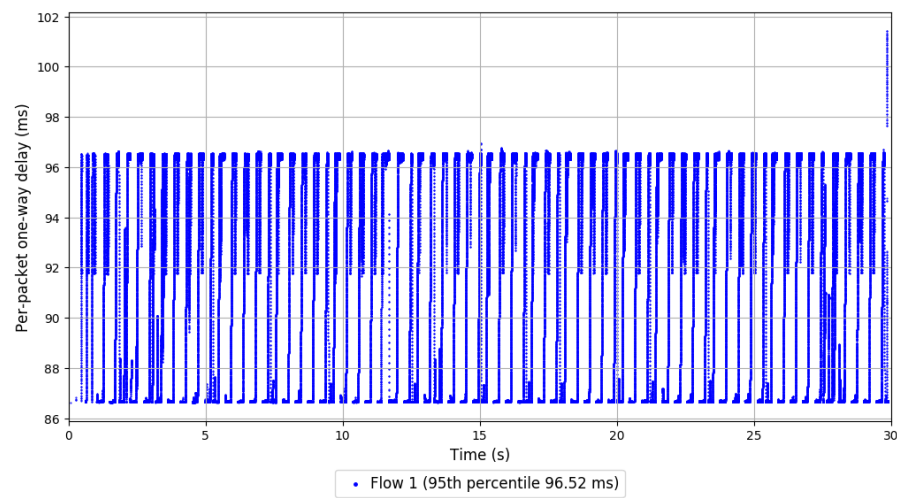
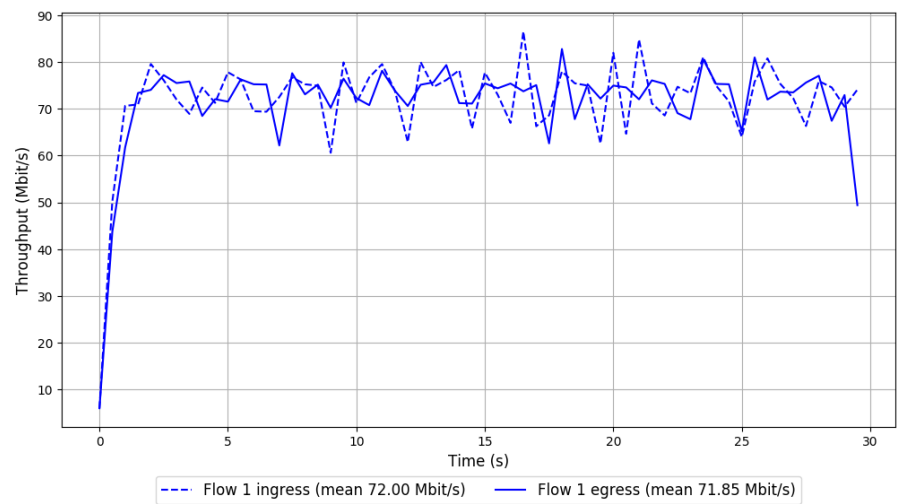
-- Flow 1:

Average throughput: 71.85 Mbit/s

95th percentile per-packet one-way delay: 96.515 ms

Loss rate: 0.84%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-03-27 03:05:48

End at: 2018-03-27 03:06:18

Local clock offset: -5.82 ms

Remote clock offset: 8.59 ms

Below is generated by plot.py at 2018-03-27 08:10:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.61 Mbit/s

95th percentile per-packet one-way delay: 90.558 ms

Loss rate: 4.68%

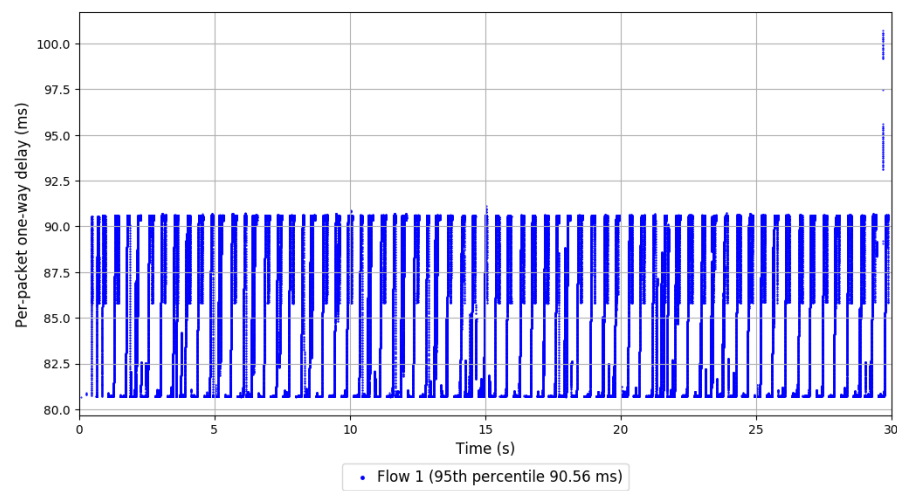
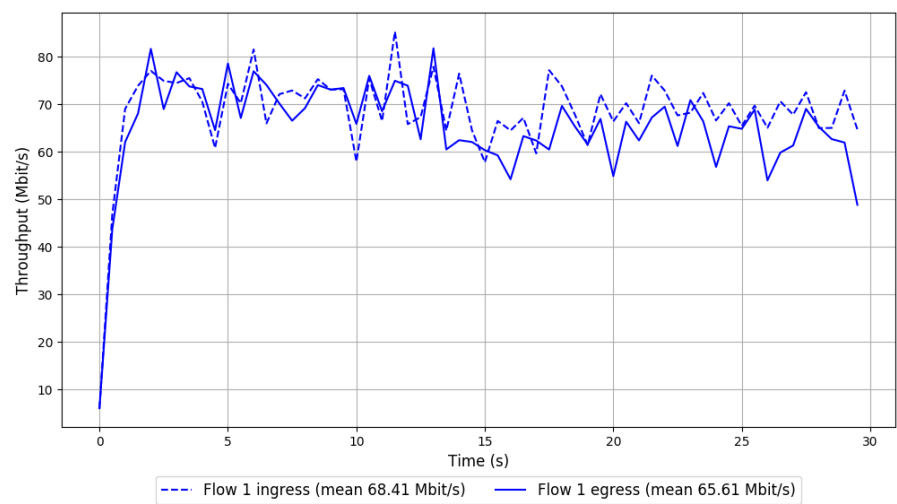
-- Flow 1:

Average throughput: 65.61 Mbit/s

95th percentile per-packet one-way delay: 90.558 ms

Loss rate: 4.68%

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



Run 8: Statistics of TaoVA-100x

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

End at: 2018-03-27 03:28:38

Local clock offset: -6.357 ms

Remote clock offset: 2.666 ms

Below is generated by plot.py at 2018-03-27 08:11:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.57 Mbit/s

95th percentile per-packet one-way delay: 94.964 ms

Loss rate: 0.64%

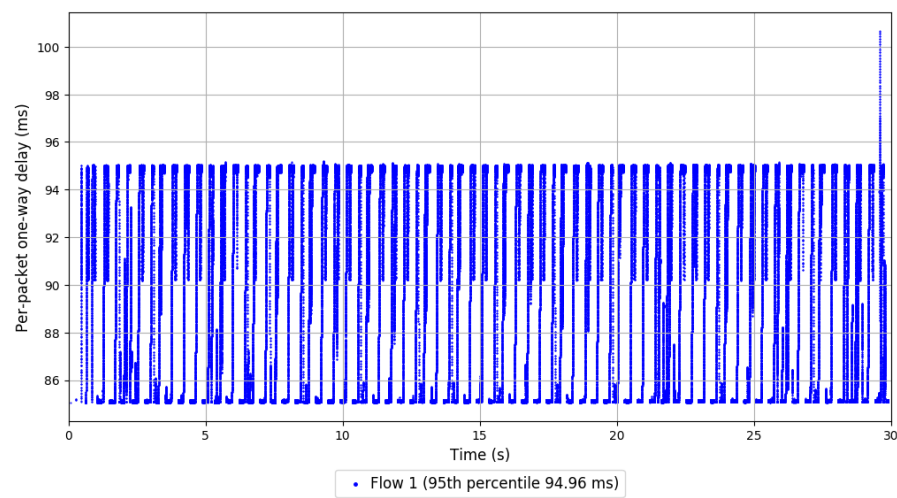
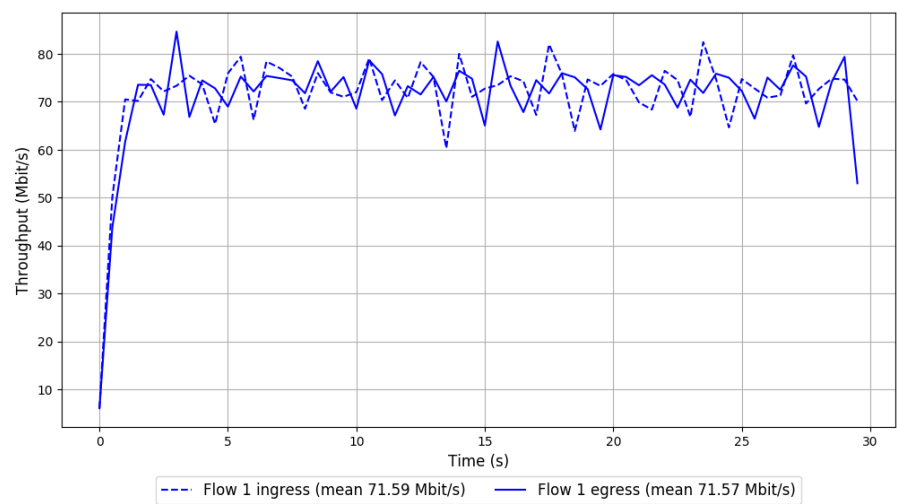
-- Flow 1:

Average throughput: 71.57 Mbit/s

95th percentile per-packet one-way delay: 94.964 ms

Loss rate: 0.64%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-03-27 03:50:25

End at: 2018-03-27 03:50:55

Local clock offset: -5.103 ms

Remote clock offset: 8.222 ms

Below is generated by plot.py at 2018-03-27 08:12:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.51 Mbit/s

95th percentile per-packet one-way delay: 89.118 ms

Loss rate: 0.58%

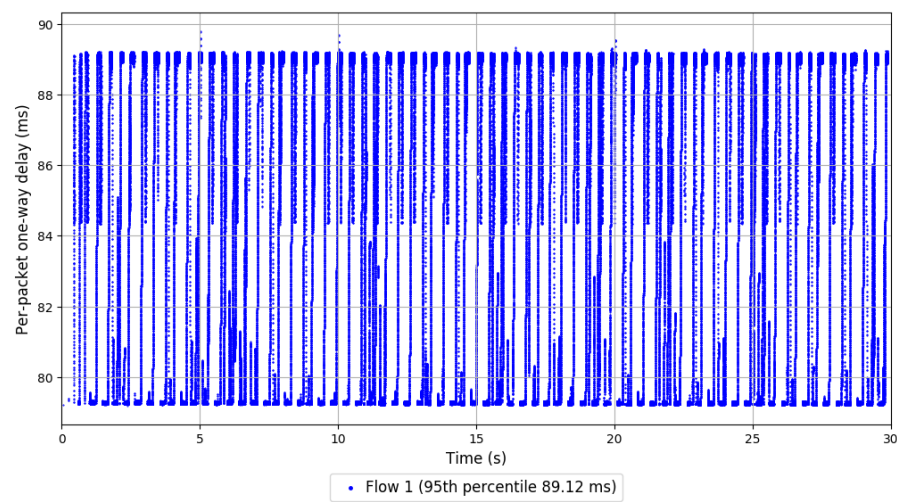
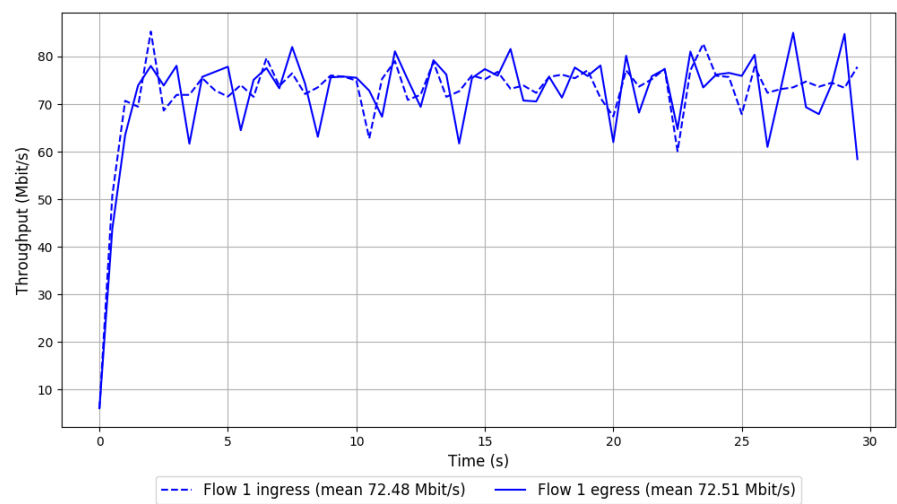
-- Flow 1:

Average throughput: 72.51 Mbit/s

95th percentile per-packet one-way delay: 89.118 ms

Loss rate: 0.58%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-03-27 04:12:37

End at: 2018-03-27 04:13:07

Local clock offset: -4.869 ms

Remote clock offset: 1.876 ms

Below is generated by plot.py at 2018-03-27 08:12:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.54 Mbit/s

95th percentile per-packet one-way delay: 96.354 ms

Loss rate: 0.86%

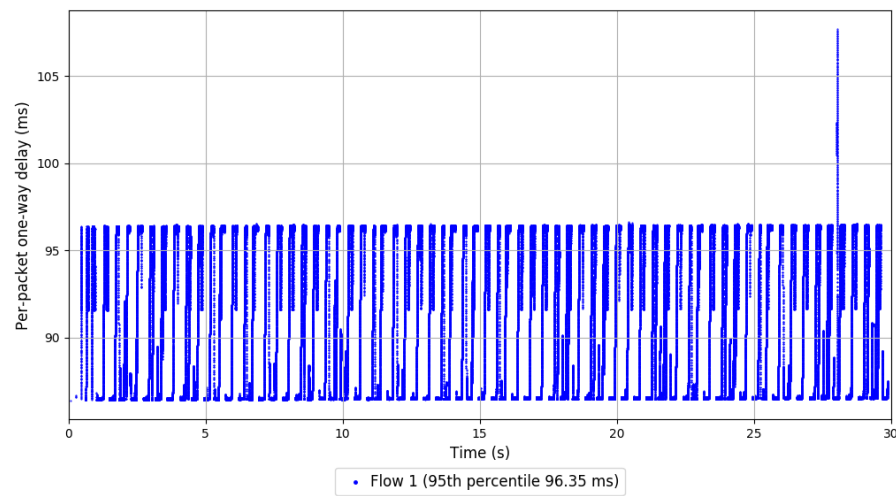
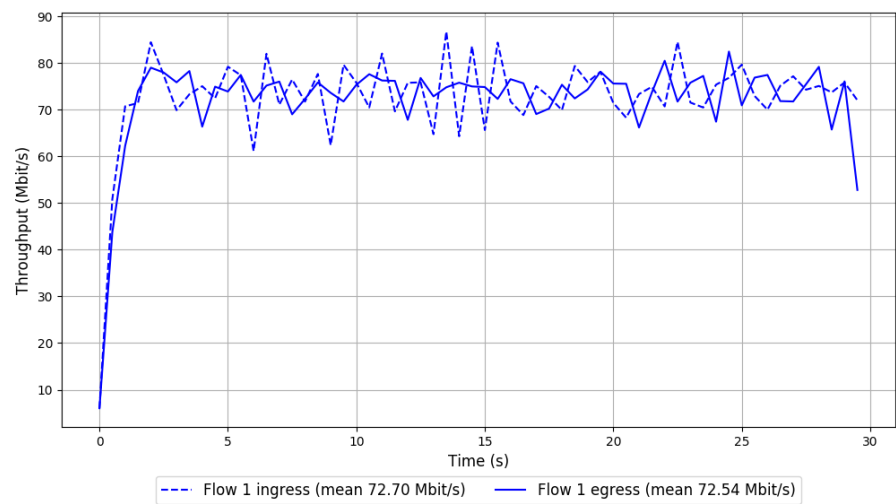
-- Flow 1:

Average throughput: 72.54 Mbit/s

95th percentile per-packet one-way delay: 96.354 ms

Loss rate: 0.86%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-03-27 00:44:35

End at: 2018-03-27 00:45:05

Local clock offset: 0.008 ms

Remote clock offset: 9.259 ms

Below is generated by plot.py at 2018-03-27 08:12:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.01 Mbit/s

95th percentile per-packet one-way delay: 87.915 ms

Loss rate: 1.26%

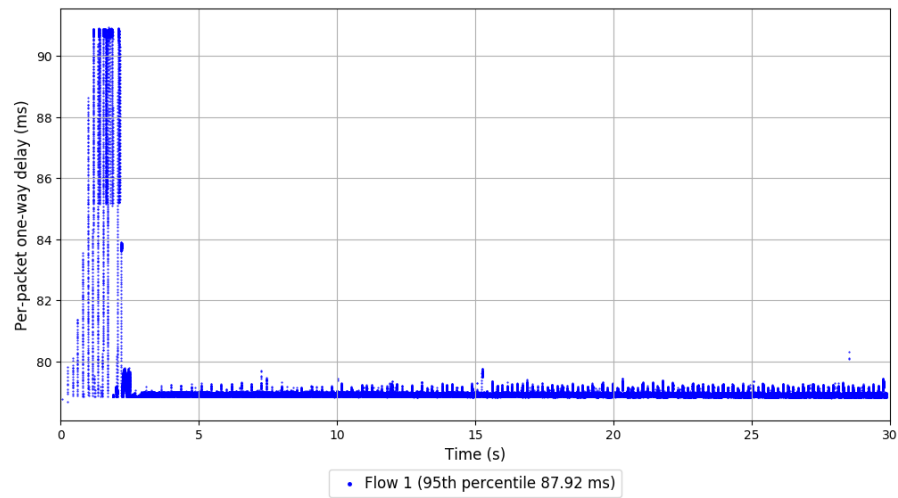
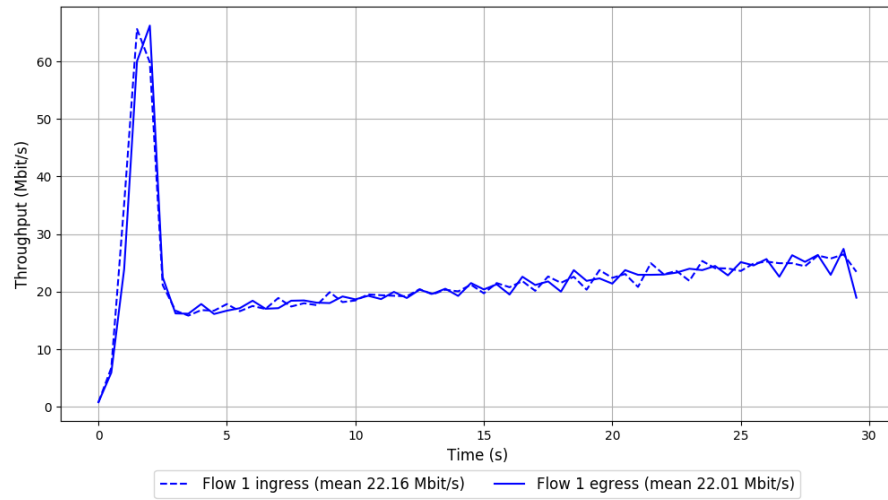
-- Flow 1:

Average throughput: 22.01 Mbit/s

95th percentile per-packet one-way delay: 87.915 ms

Loss rate: 1.26%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-03-27 01:06:54

End at: 2018-03-27 01:07:24

Local clock offset: -3.892 ms

Remote clock offset: 9.406 ms

Below is generated by plot.py at 2018-03-27 08:12:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.93 Mbit/s

95th percentile per-packet one-way delay: 86.937 ms

Loss rate: 1.00%

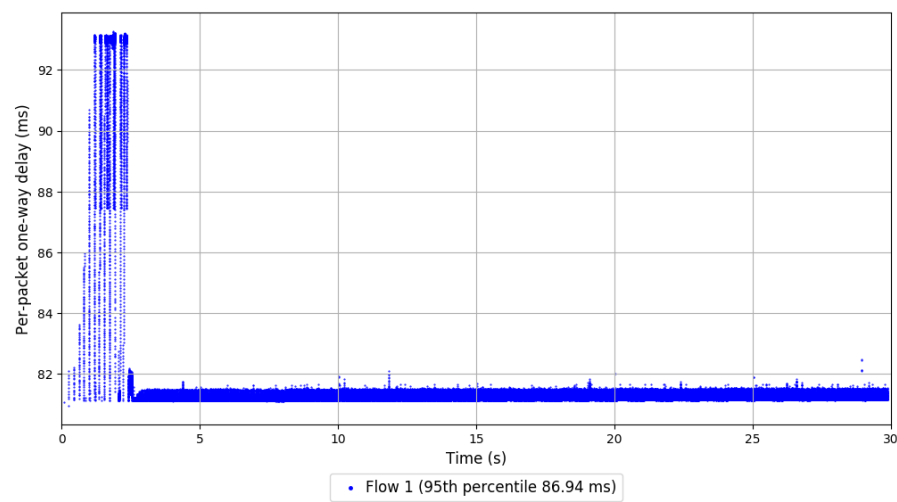
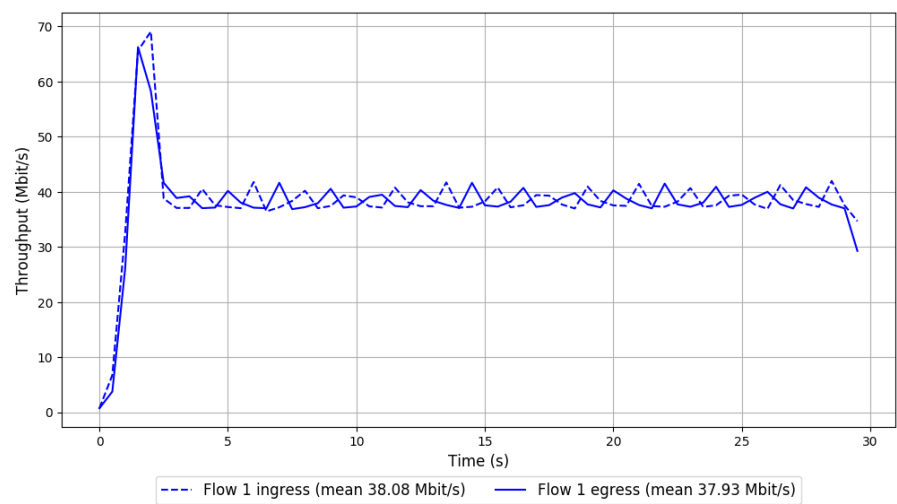
-- Flow 1:

Average throughput: 37.93 Mbit/s

95th percentile per-packet one-way delay: 86.937 ms

Loss rate: 1.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-03-27 01:29:08

End at: 2018-03-27 01:29:38

Local clock offset: -4.205 ms

Remote clock offset: 3.188 ms

Below is generated by plot.py at 2018-03-27 08:12:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.49 Mbit/s

95th percentile per-packet one-way delay: 87.605 ms

Loss rate: 0.65%

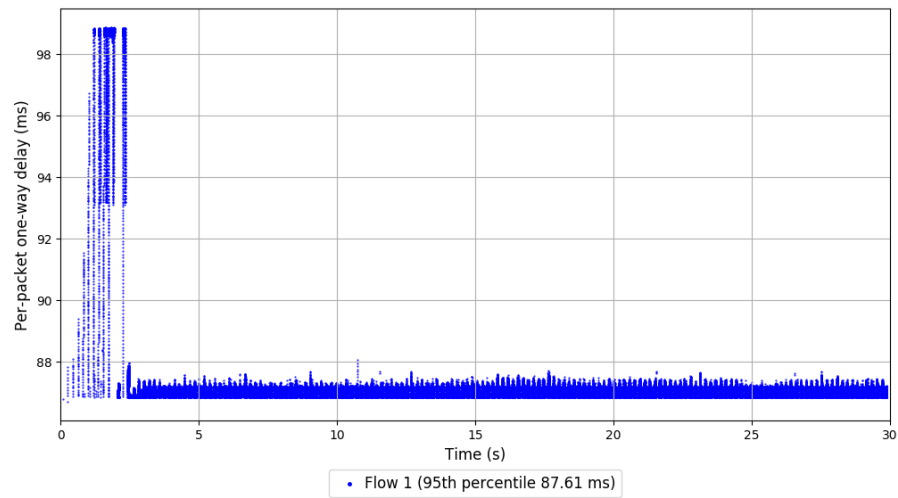
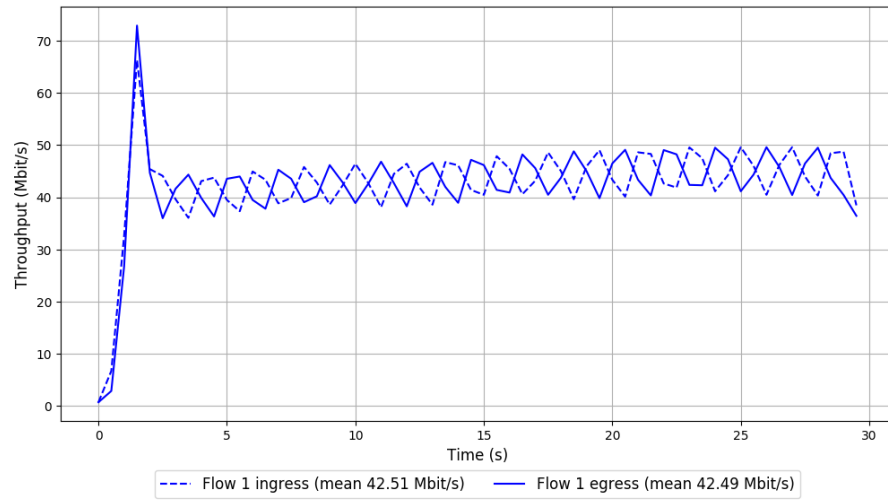
-- Flow 1:

Average throughput: 42.49 Mbit/s

95th percentile per-packet one-way delay: 87.605 ms

Loss rate: 0.65%

Run 3: Report of TCP Vegas — Data Link

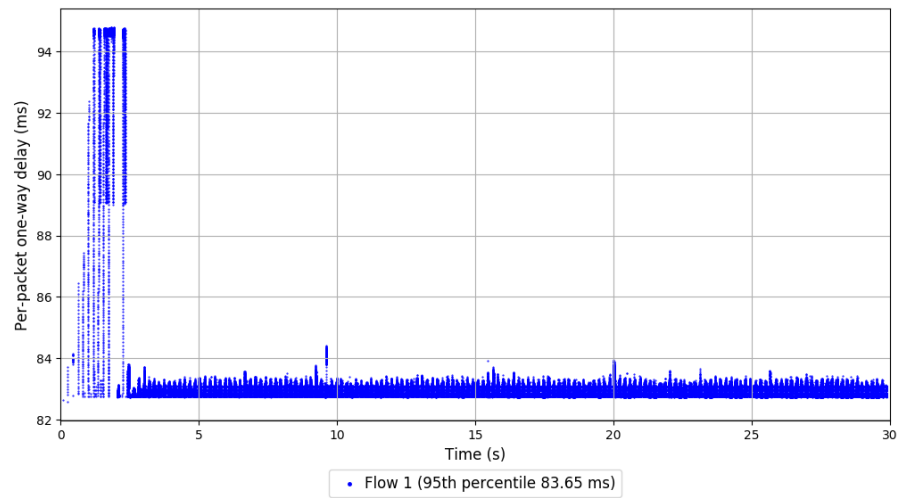
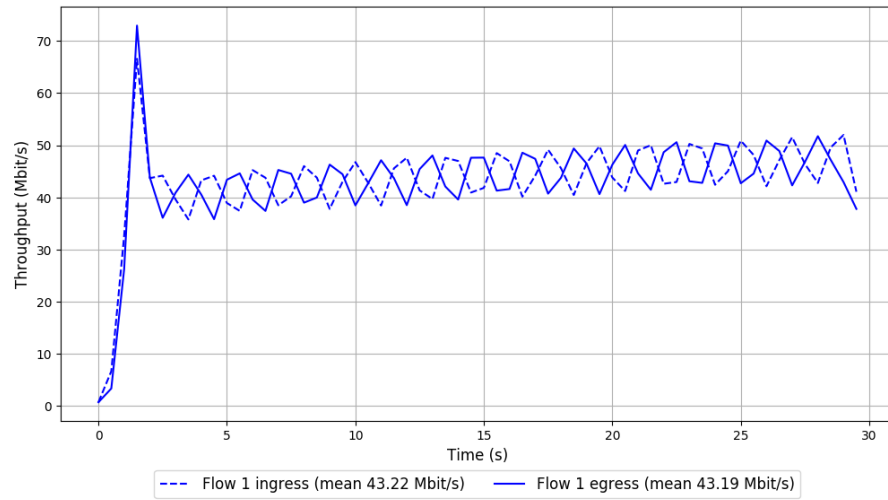


Run 4: Statistics of TCP Vegas

Start at: 2018-03-27 01:51:25
End at: 2018-03-27 01:51:55
Local clock offset: -4.294 ms
Remote clock offset: 7.061 ms

Below is generated by plot.py at 2018-03-27 08:12:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 43.19 Mbit/s
95th percentile per-packet one-way delay: 83.652 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 43.19 Mbit/s
95th percentile per-packet one-way delay: 83.652 ms
Loss rate: 0.67%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-03-27 02:13:38

End at: 2018-03-27 02:14:08

Local clock offset: -4.325 ms

Remote clock offset: 8.613 ms

Below is generated by plot.py at 2018-03-27 08:12:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.38 Mbit/s

95th percentile per-packet one-way delay: 82.853 ms

Loss rate: 0.70%

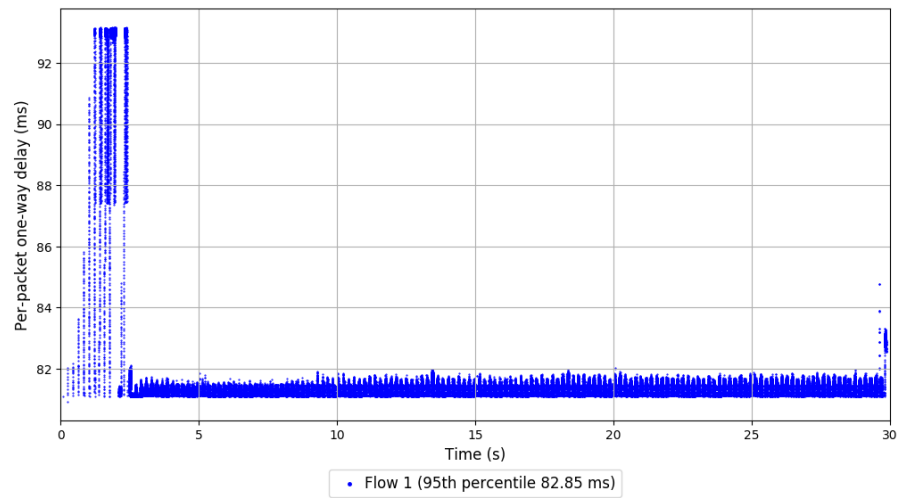
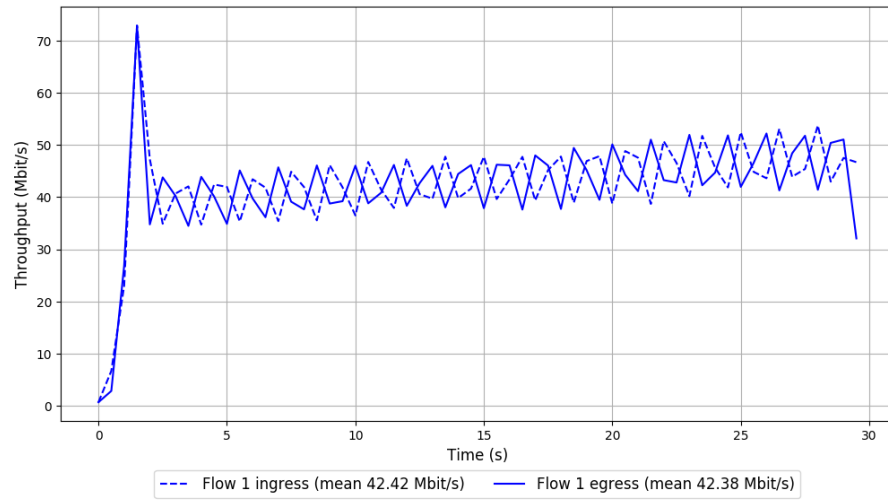
-- Flow 1:

Average throughput: 42.38 Mbit/s

95th percentile per-packet one-way delay: 82.853 ms

Loss rate: 0.70%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-03-27 02:35:53

End at: 2018-03-27 02:36:23

Local clock offset: -4.995 ms

Remote clock offset: 8.532 ms

Below is generated by plot.py at 2018-03-27 08:12:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.11 Mbit/s

95th percentile per-packet one-way delay: 80.851 ms

Loss rate: 0.67%

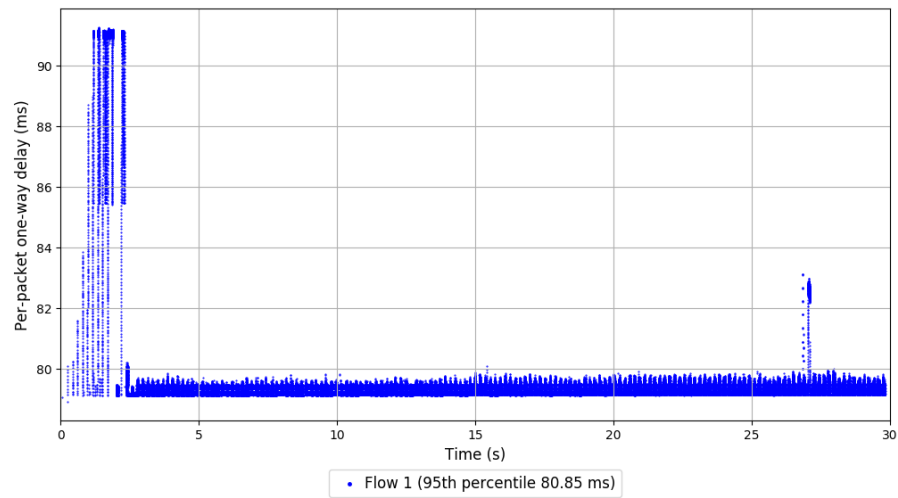
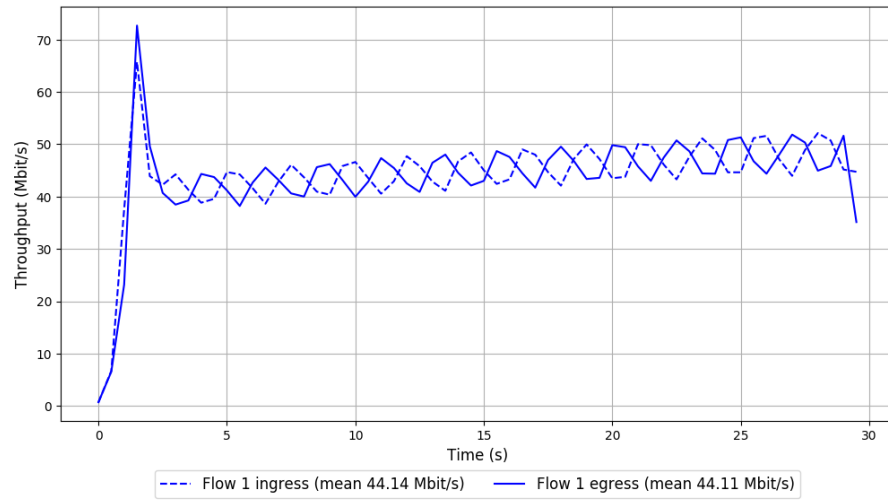
-- Flow 1:

Average throughput: 44.11 Mbit/s

95th percentile per-packet one-way delay: 80.851 ms

Loss rate: 0.67%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-03-27 02:58:23

End at: 2018-03-27 02:58:53

Local clock offset: -5.72 ms

Remote clock offset: 8.552 ms

Below is generated by plot.py at 2018-03-27 08:12:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.28 Mbit/s

95th percentile per-packet one-way delay: 81.876 ms

Loss rate: 0.65%

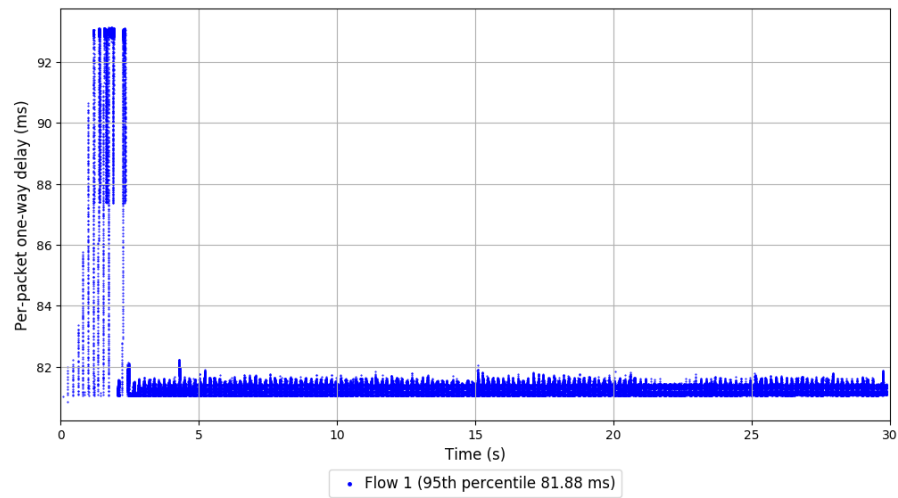
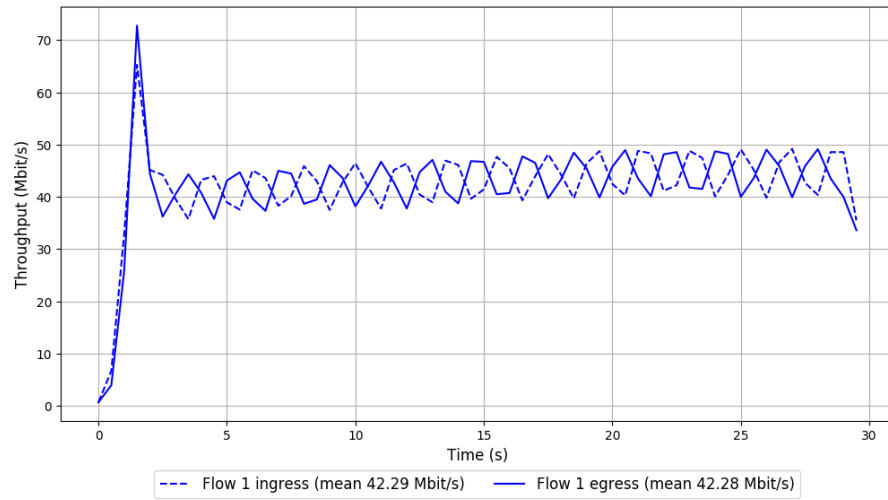
-- Flow 1:

Average throughput: 42.28 Mbit/s

95th percentile per-packet one-way delay: 81.876 ms

Loss rate: 0.65%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-03-27 03:20:41

End at: 2018-03-27 03:21:11

Local clock offset: -6.197 ms

Remote clock offset: 8.501 ms

Below is generated by plot.py at 2018-03-27 08:12:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.48 Mbit/s

95th percentile per-packet one-way delay: 81.354 ms

Loss rate: 1.12%

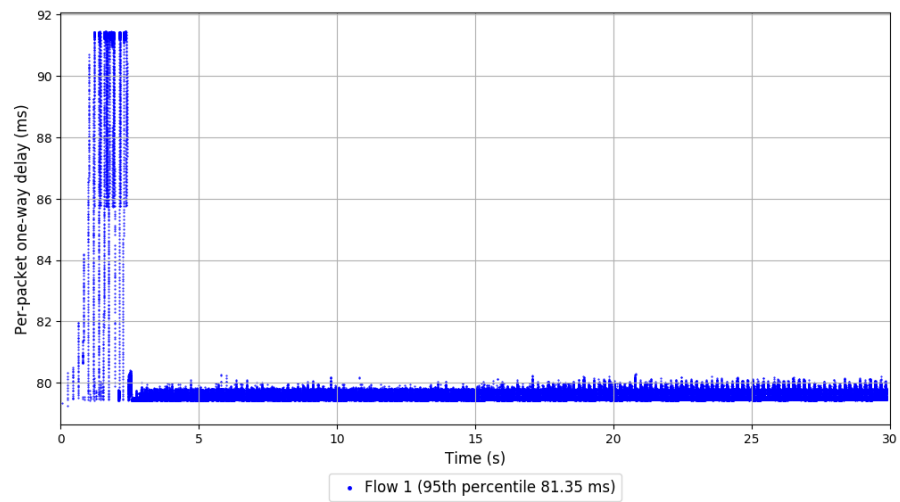
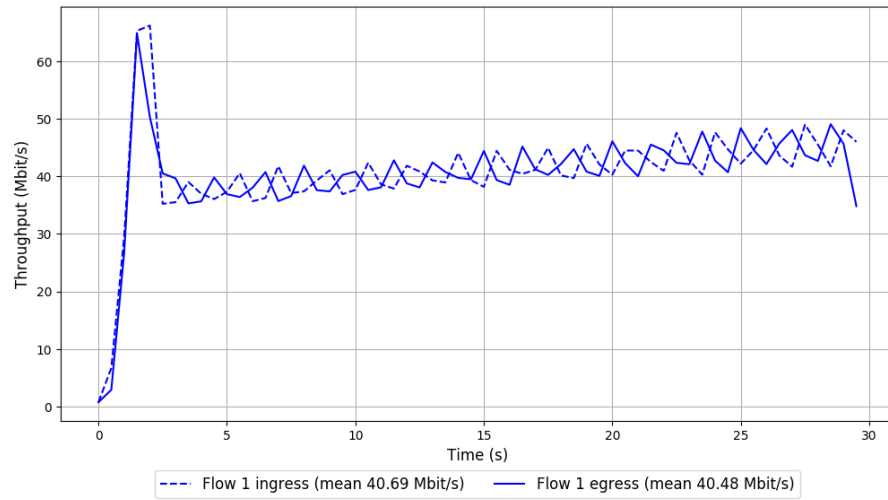
-- Flow 1:

Average throughput: 40.48 Mbit/s

95th percentile per-packet one-way delay: 81.354 ms

Loss rate: 1.12%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-03-27 03:43:00

End at: 2018-03-27 03:43:30

Local clock offset: -5.624 ms

Remote clock offset: 3.341 ms

Below is generated by plot.py at 2018-03-27 08:12:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.42 Mbit/s

95th percentile per-packet one-way delay: 85.416 ms

Loss rate: 0.69%

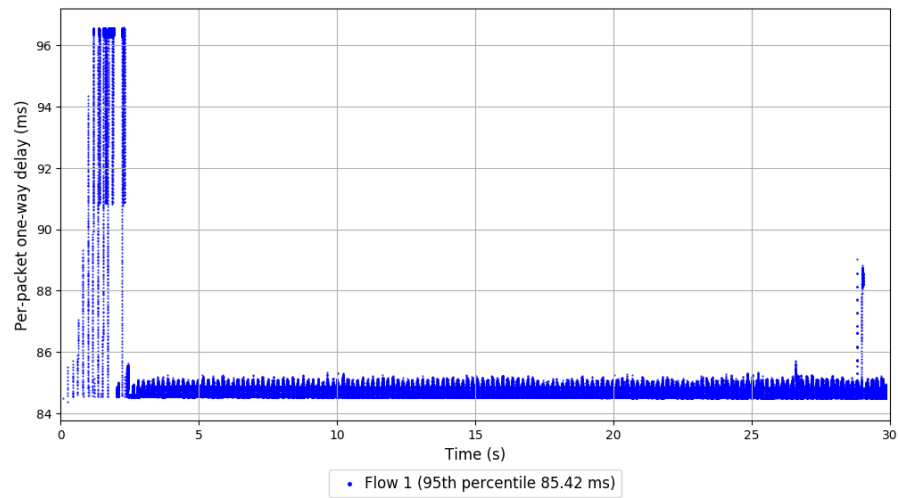
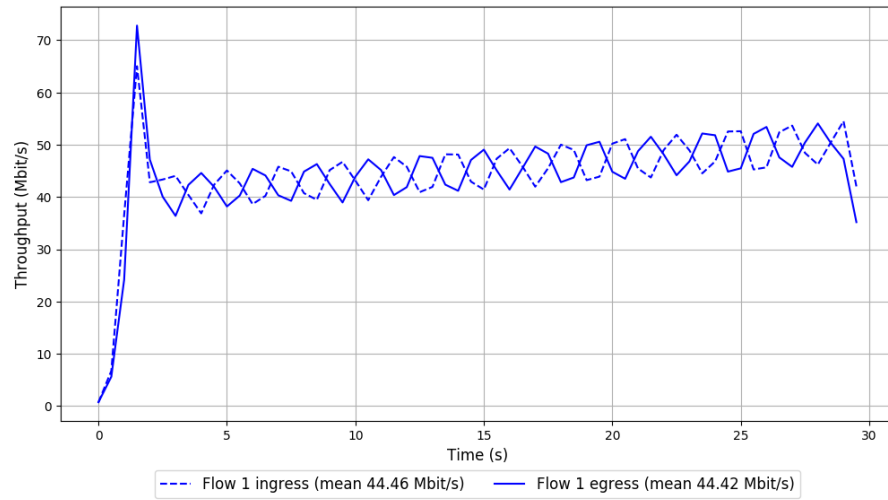
-- Flow 1:

Average throughput: 44.42 Mbit/s

95th percentile per-packet one-way delay: 85.416 ms

Loss rate: 0.69%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-03-27 04:05:13

End at: 2018-03-27 04:05:43

Local clock offset: -4.641 ms

Remote clock offset: 2.868 ms

Below is generated by plot.py at 2018-03-27 08:12:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.92 Mbit/s

95th percentile per-packet one-way delay: 88.291 ms

Loss rate: 0.69%

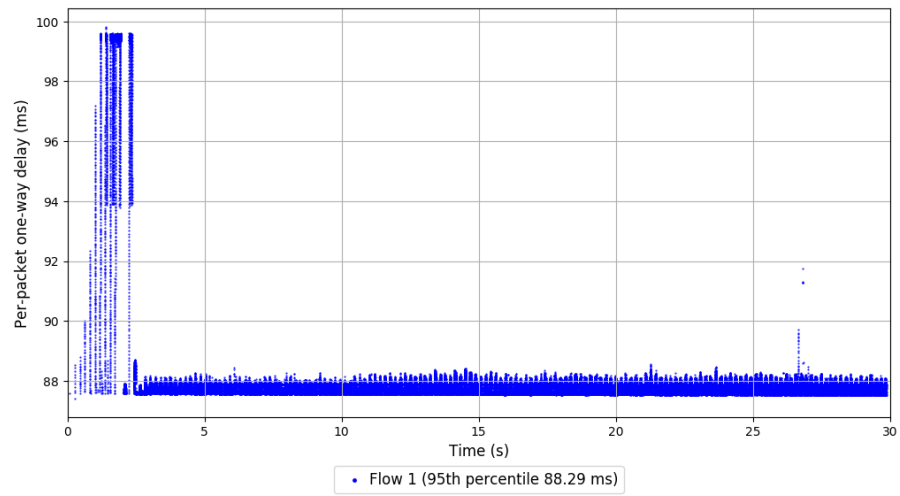
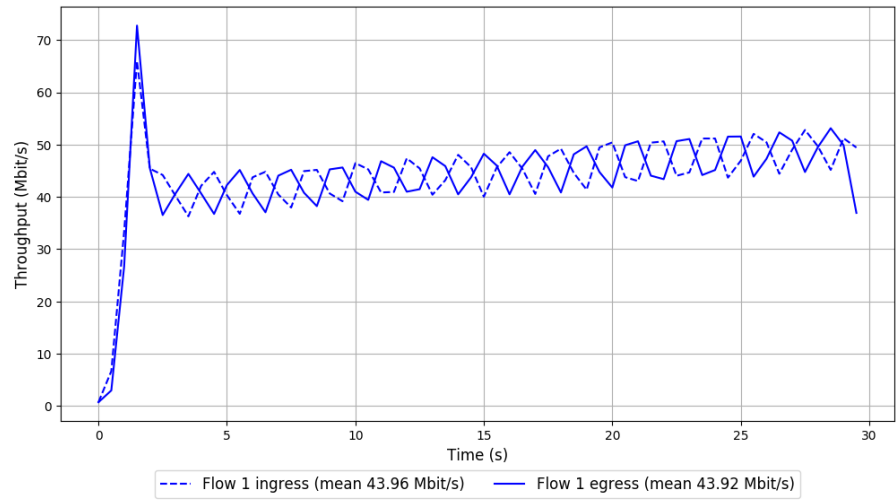
-- Flow 1:

Average throughput: 43.92 Mbit/s

95th percentile per-packet one-way delay: 88.291 ms

Loss rate: 0.69%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-03-27 00:54:33

End at: 2018-03-27 00:55:03

Local clock offset: -2.574 ms

Remote clock offset: 9.232 ms

Below is generated by plot.py at 2018-03-27 08:12:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.58 Mbit/s

95th percentile per-packet one-way delay: 91.304 ms

Loss rate: 0.34%

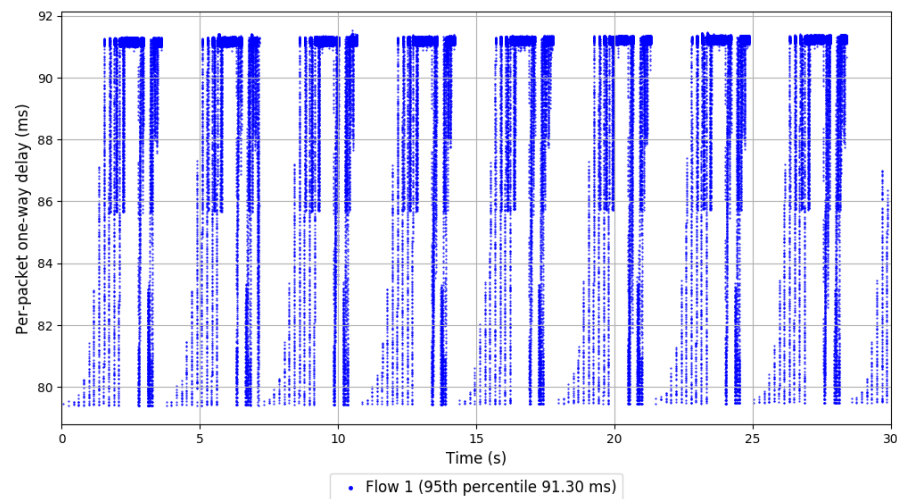
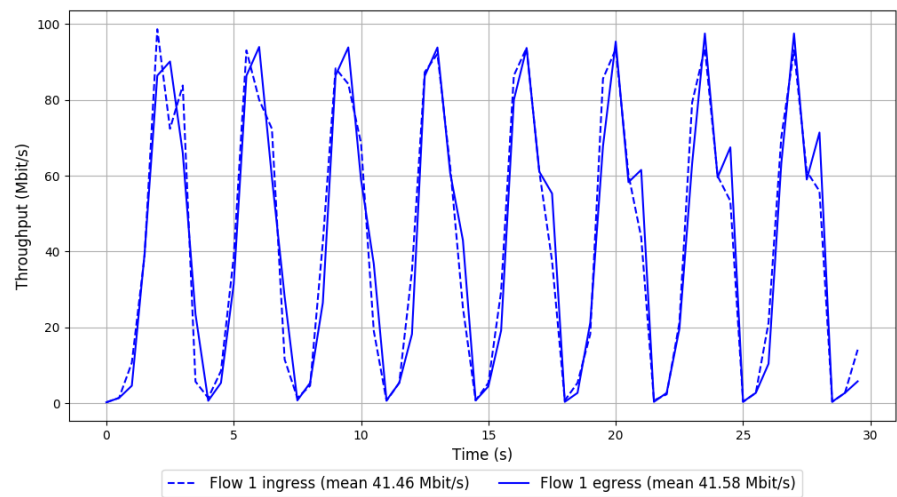
-- Flow 1:

Average throughput: 41.58 Mbit/s

95th percentile per-packet one-way delay: 91.304 ms

Loss rate: 0.34%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-03-27 01:16:54

End at: 2018-03-27 01:17:24

Local clock offset: -4.221 ms

Remote clock offset: 3.218 ms

Below is generated by plot.py at 2018-03-27 08:12:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.19 Mbit/s

95th percentile per-packet one-way delay: 97.218 ms

Loss rate: 1.25%

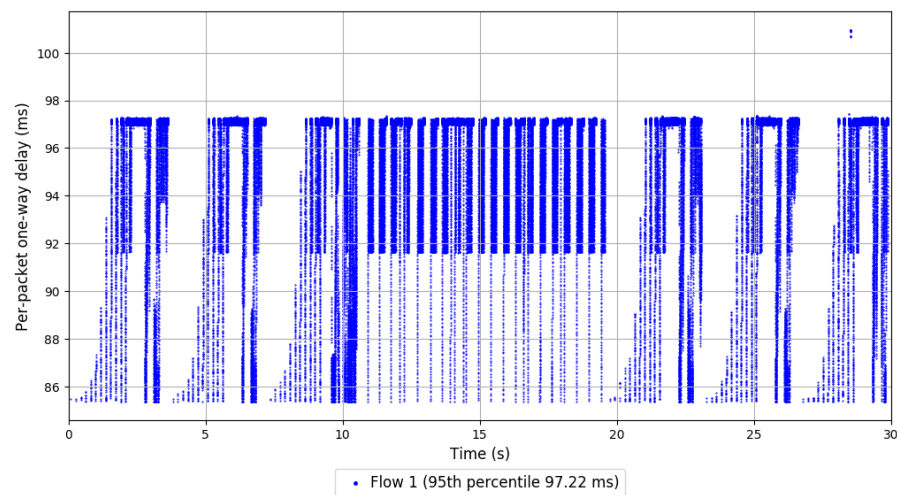
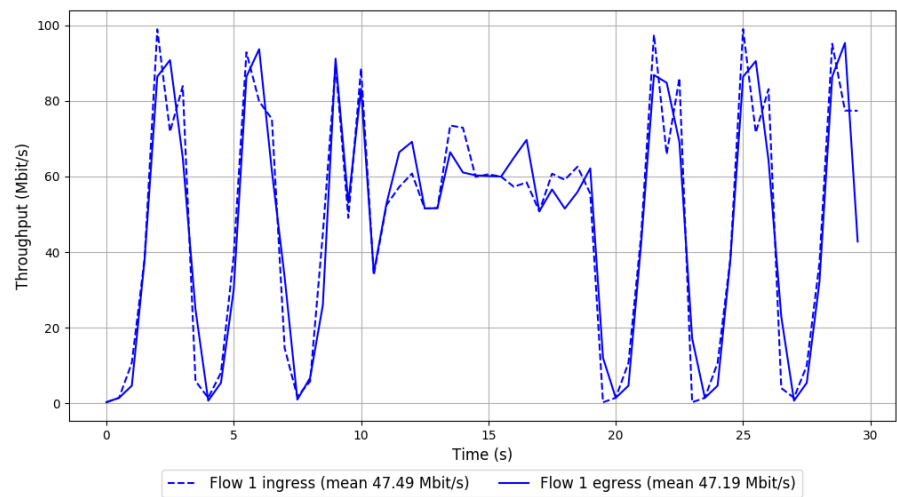
-- Flow 1:

Average throughput: 47.19 Mbit/s

95th percentile per-packet one-way delay: 97.218 ms

Loss rate: 1.25%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-03-27 01:39:06

End at: 2018-03-27 01:39:36

Local clock offset: -4.287 ms

Remote clock offset: 9.481 ms

Below is generated by plot.py at 2018-03-27 08:12:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.88 Mbit/s

95th percentile per-packet one-way delay: 90.762 ms

Loss rate: 0.48%

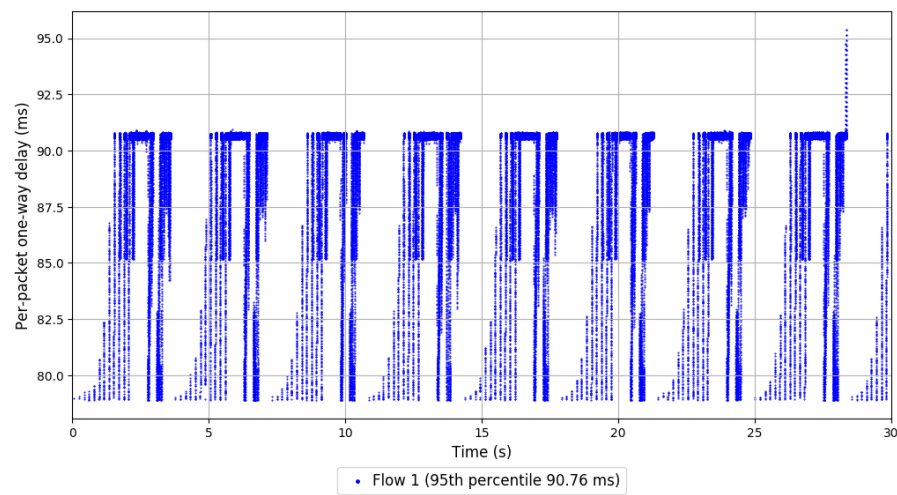
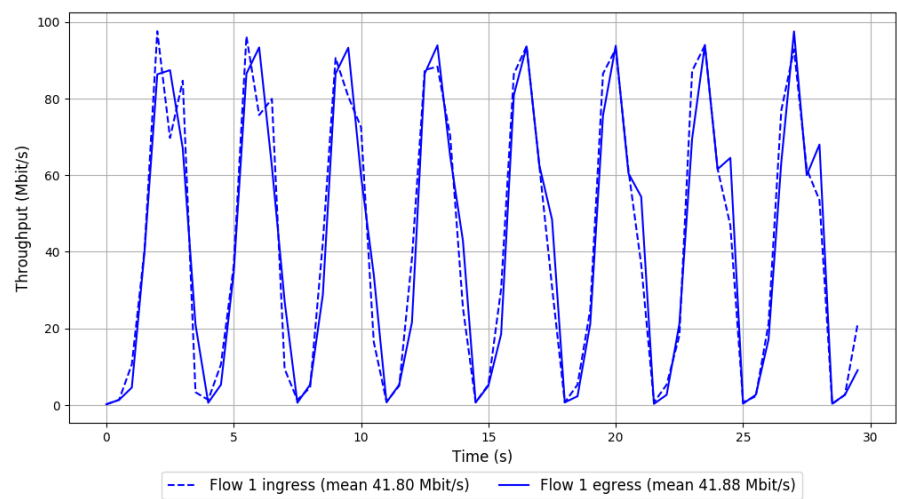
-- Flow 1:

Average throughput: 41.88 Mbit/s

95th percentile per-packet one-way delay: 90.762 ms

Loss rate: 0.48%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-03-27 02:01:21

End at: 2018-03-27 02:01:51

Local clock offset: -4.318 ms

Remote clock offset: 2.804 ms

Below is generated by plot.py at 2018-03-27 08:12:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.09 Mbit/s

95th percentile per-packet one-way delay: 96.617 ms

Loss rate: 6.57%

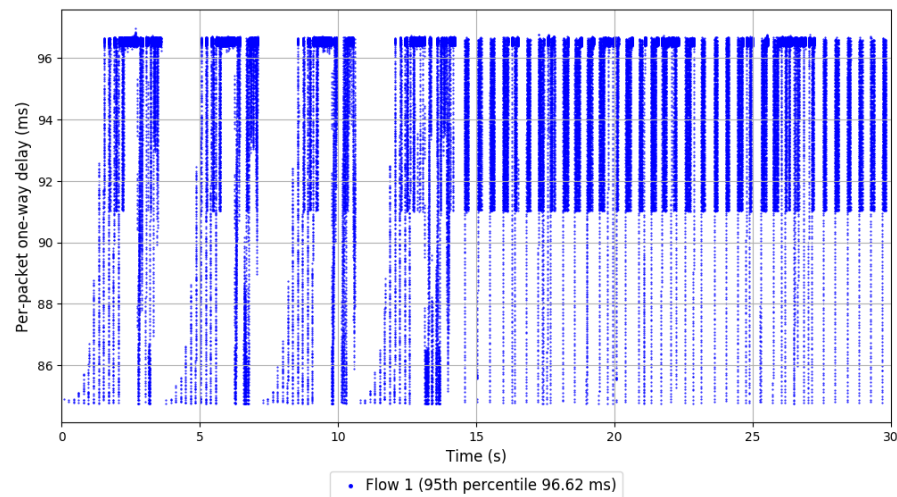
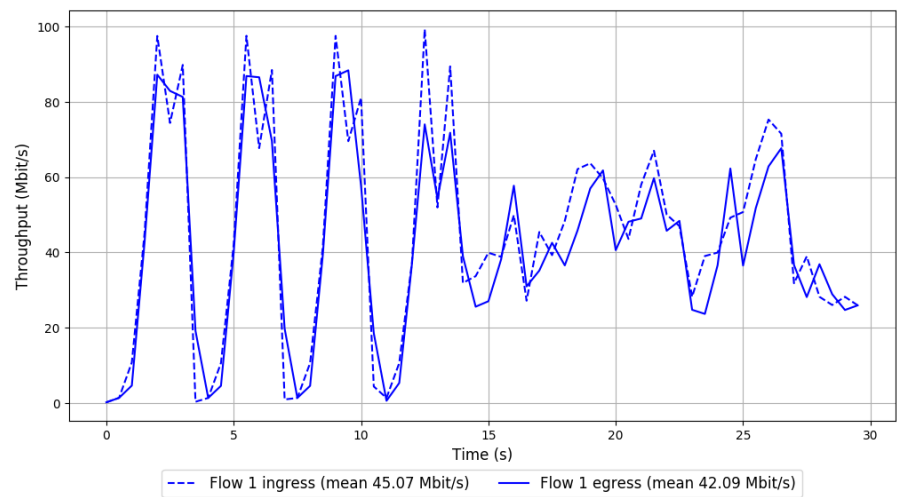
-- Flow 1:

Average throughput: 42.09 Mbit/s

95th percentile per-packet one-way delay: 96.617 ms

Loss rate: 6.57%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-03-27 02:23:36

End at: 2018-03-27 02:24:06

Local clock offset: -4.289 ms

Remote clock offset: 8.624 ms

Below is generated by plot.py at 2018-03-27 08:12:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.63 Mbit/s

95th percentile per-packet one-way delay: 90.969 ms

Loss rate: 0.06%

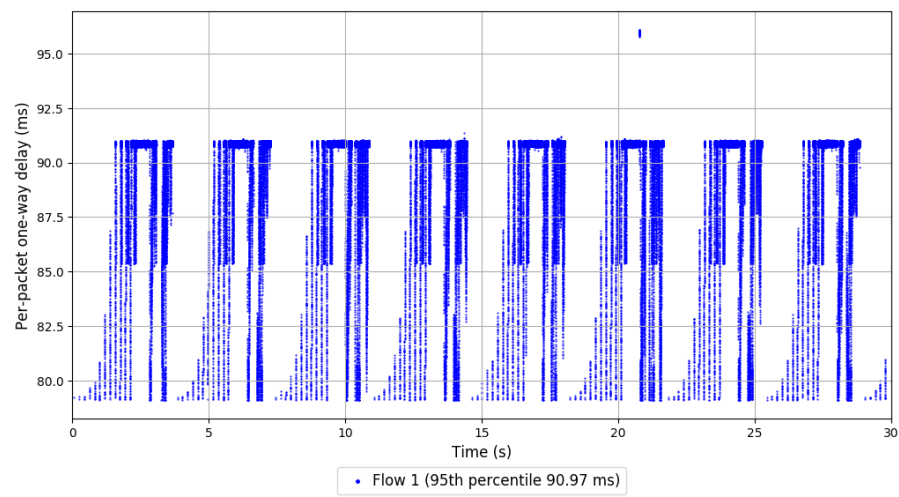
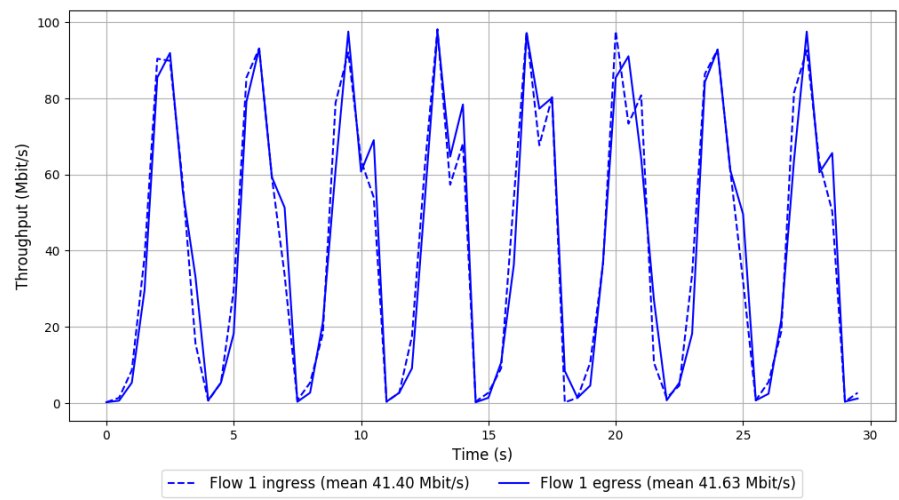
-- Flow 1:

Average throughput: 41.63 Mbit/s

95th percentile per-packet one-way delay: 90.969 ms

Loss rate: 0.06%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-03-27 02:45:48

End at: 2018-03-27 02:46:18

Local clock offset: -5.388 ms

Remote clock offset: 8.539 ms

Below is generated by plot.py at 2018-03-27 08:12:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.72 Mbit/s

95th percentile per-packet one-way delay: 93.574 ms

Loss rate: 0.02%

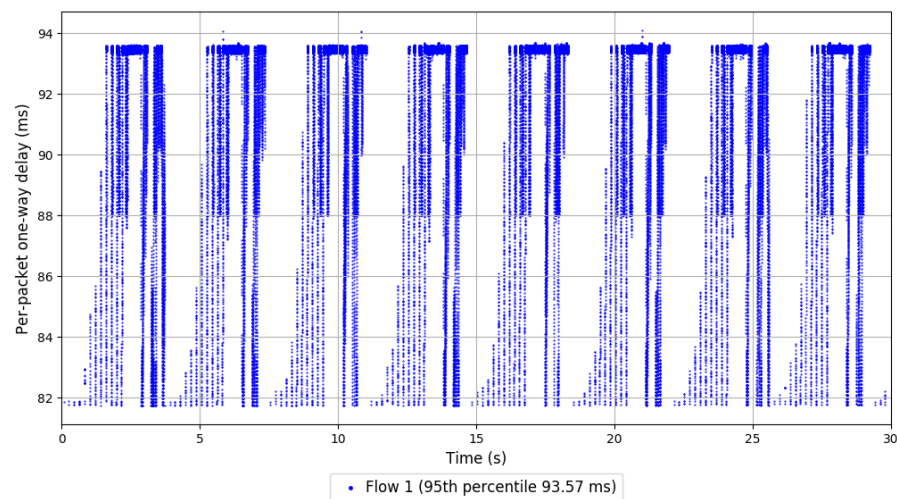
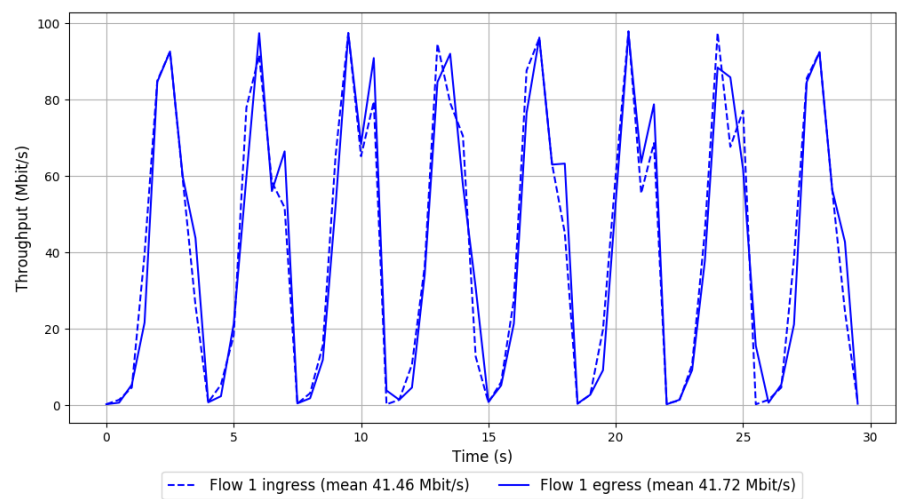
-- Flow 1:

Average throughput: 41.72 Mbit/s

95th percentile per-packet one-way delay: 93.574 ms

Loss rate: 0.02%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

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

End at: 2018-03-27 03:08:51

Local clock offset: -5.882 ms

Remote clock offset: 3.126 ms

Below is generated by plot.py at 2018-03-27 08:12:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.38 Mbit/s

95th percentile per-packet one-way delay: 99.492 ms

Loss rate: 10.32%

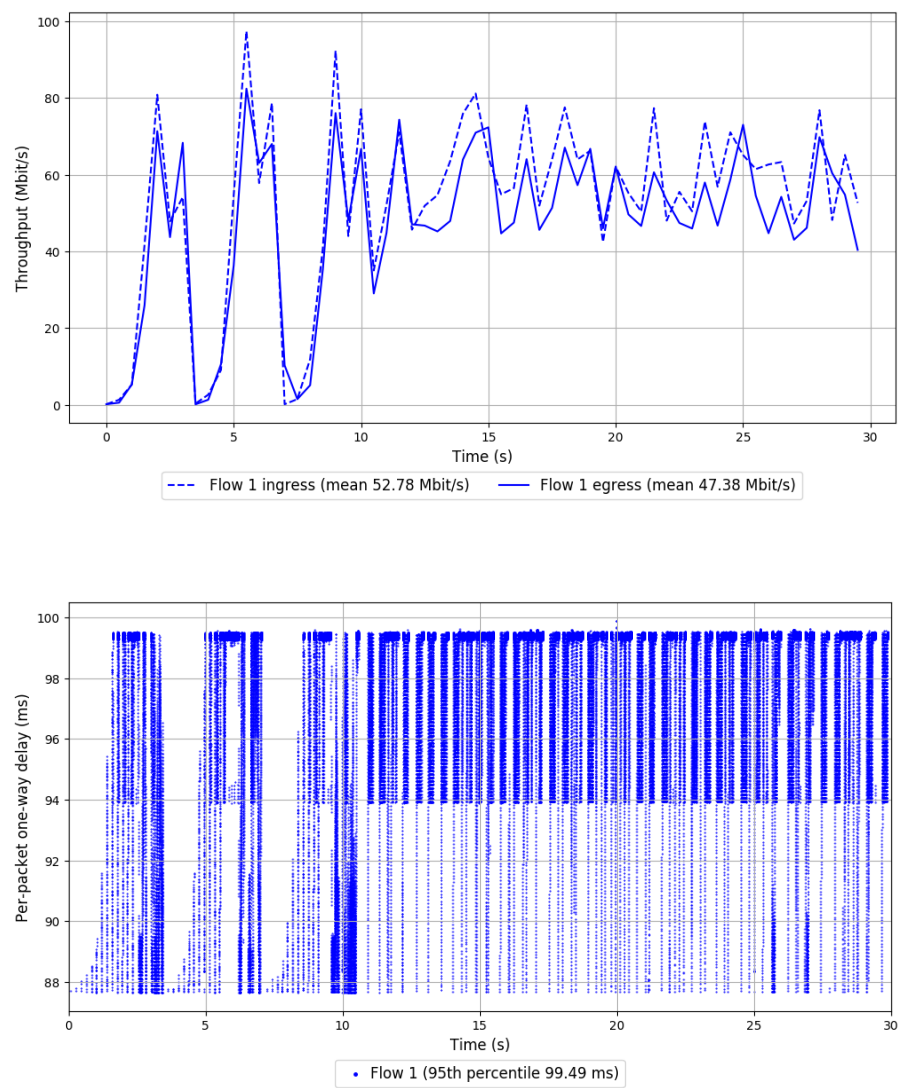
-- Flow 1:

Average throughput: 47.38 Mbit/s

95th percentile per-packet one-way delay: 99.492 ms

Loss rate: 10.32%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-03-27 03:30:42

End at: 2018-03-27 03:31:12

Local clock offset: -6.416 ms

Remote clock offset: 2.585 ms

Below is generated by plot.py at 2018-03-27 08:13:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.87 Mbit/s

95th percentile per-packet one-way delay: 100.044 ms

Loss rate: 0.01%

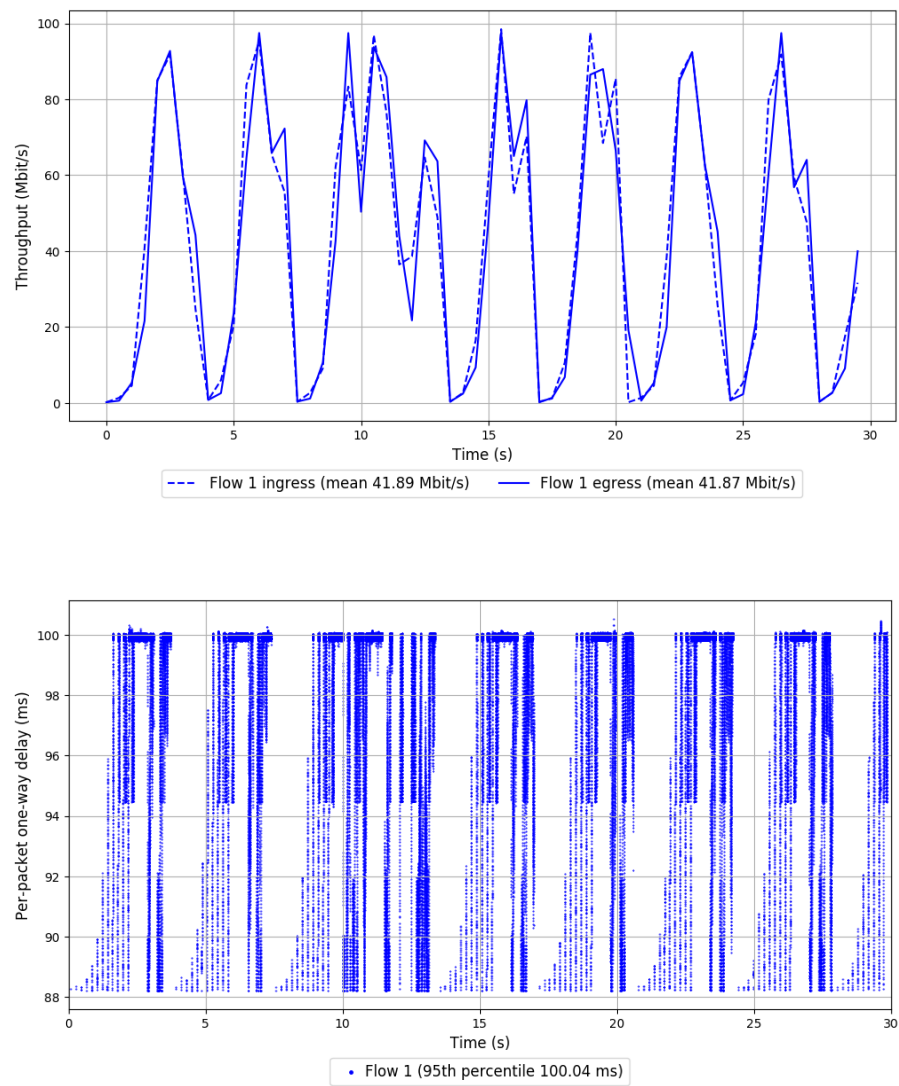
-- Flow 1:

Average throughput: 41.87 Mbit/s

95th percentile per-packet one-way delay: 100.044 ms

Loss rate: 0.01%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-03-27 03:52:57

End at: 2018-03-27 03:53:27

Local clock offset: -4.993 ms

Remote clock offset: 8.672 ms

Below is generated by plot.py at 2018-03-27 08:13:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.57 Mbit/s

95th percentile per-packet one-way delay: 92.957 ms

Loss rate: 0.12%

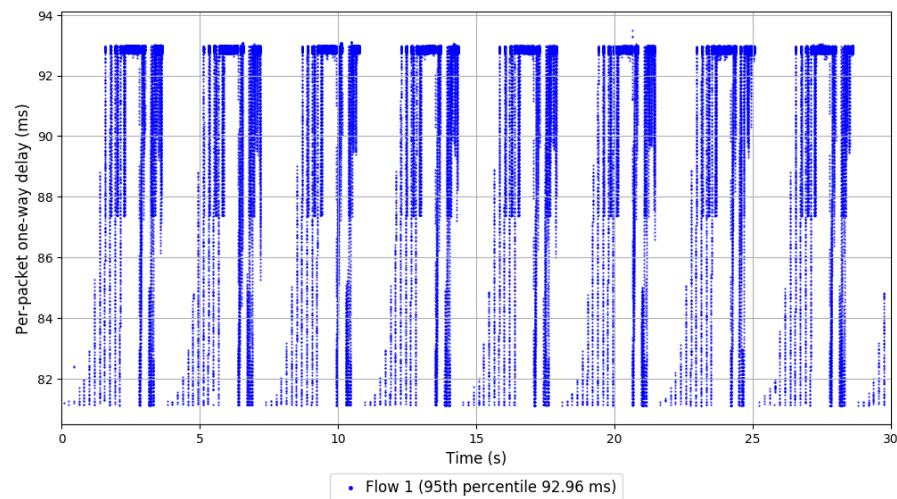
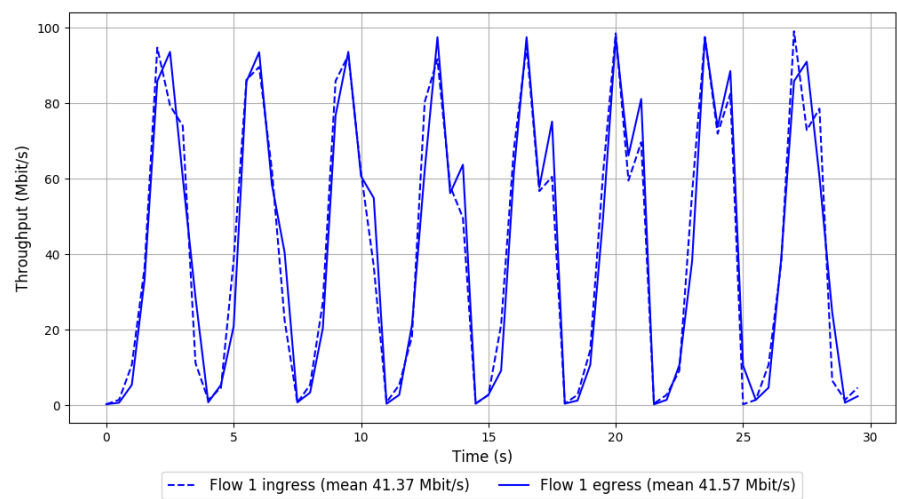
-- Flow 1:

Average throughput: 41.57 Mbit/s

95th percentile per-packet one-way delay: 92.957 ms

Loss rate: 0.12%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-03-27 04:15:09

End at: 2018-03-27 04:15:39

Local clock offset: -5.336 ms

Remote clock offset: 1.831 ms

Below is generated by plot.py at 2018-03-27 08:13:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.58 Mbit/s

95th percentile per-packet one-way delay: 99.976 ms

Loss rate: 0.24%

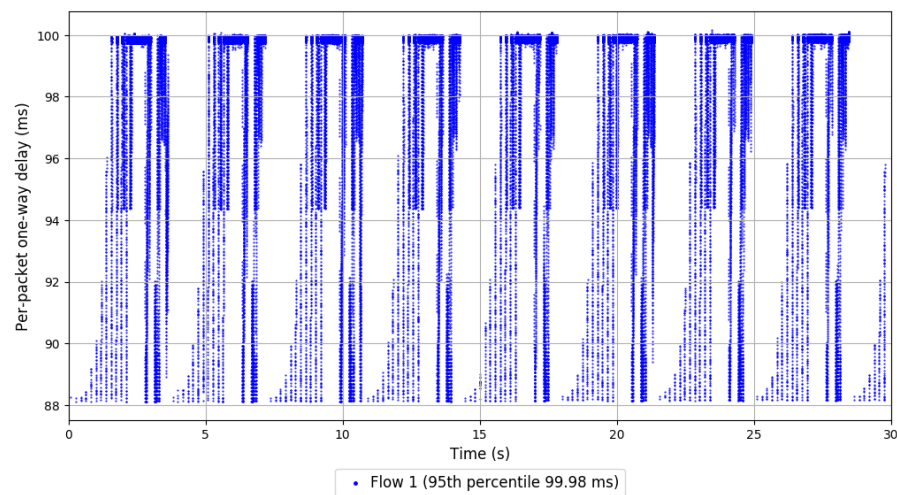
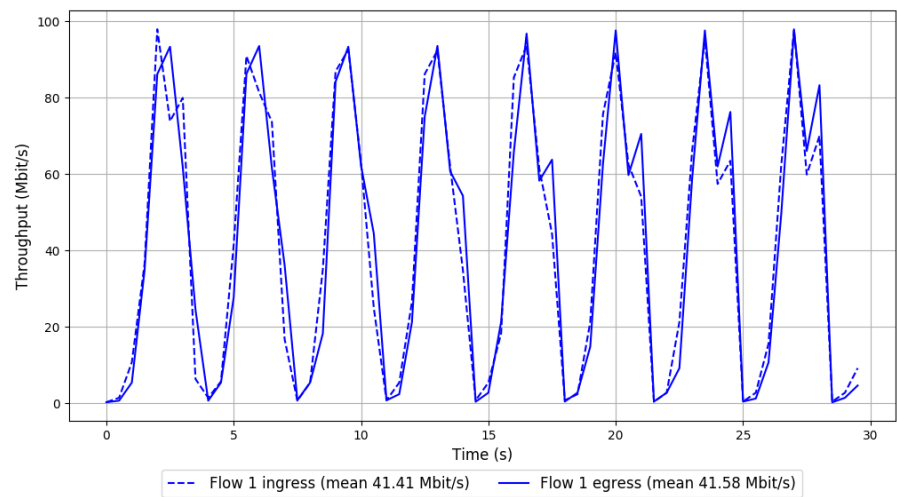
-- Flow 1:

Average throughput: 41.58 Mbit/s

95th percentile per-packet one-way delay: 99.976 ms

Loss rate: 0.24%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-03-27 00:45:47

End at: 2018-03-27 00:46:17

Local clock offset: 0.128 ms

Remote clock offset: 3.34 ms

Below is generated by plot.py at 2018-03-27 08:14:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.50 Mbit/s

95th percentile per-packet one-way delay: 85.505 ms

Loss rate: 9.55%

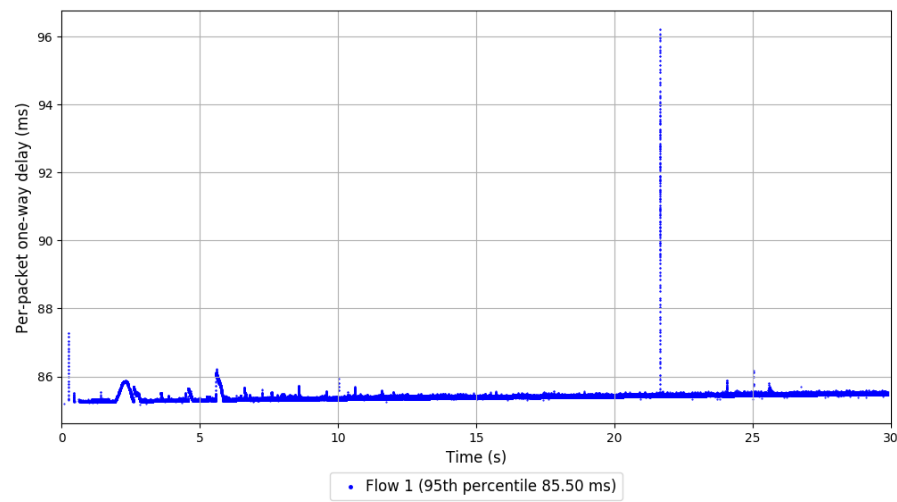
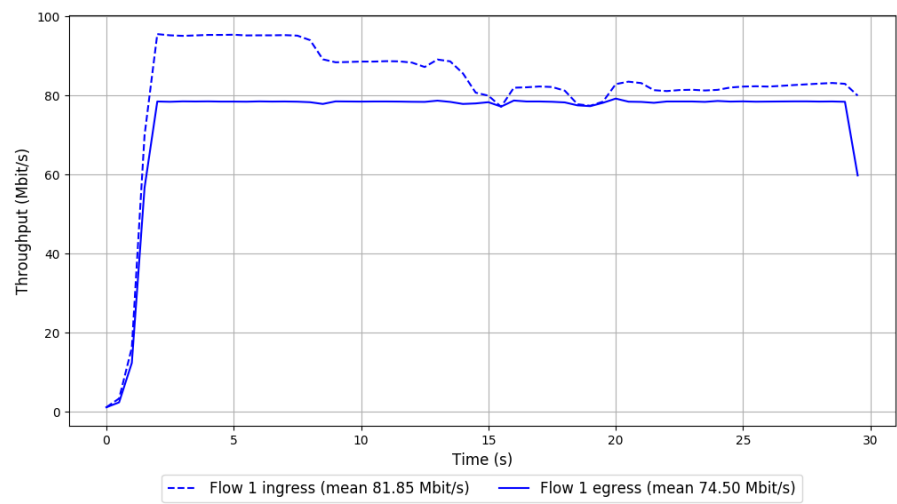
-- Flow 1:

Average throughput: 74.50 Mbit/s

95th percentile per-packet one-way delay: 85.505 ms

Loss rate: 9.55%

Run 1: Report of Copa — Data Link

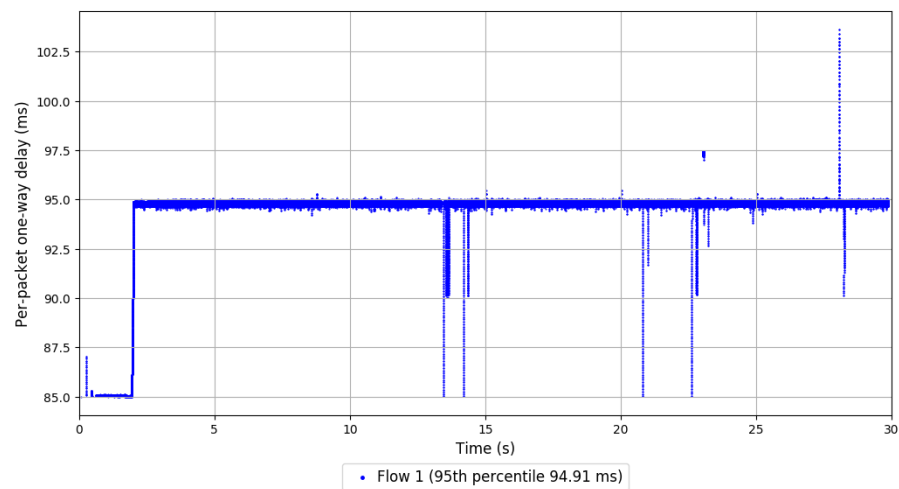
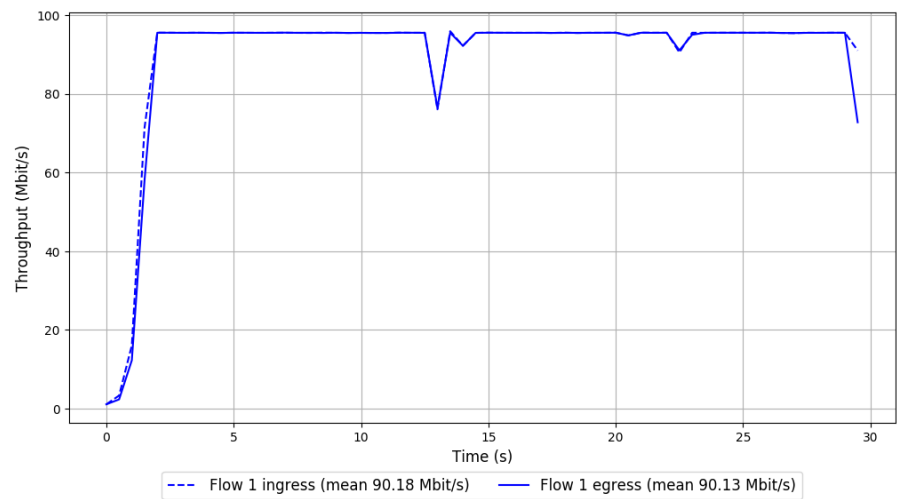


Run 2: Statistics of Copa

Start at: 2018-03-27 01:08:07
End at: 2018-03-27 01:08:37
Local clock offset: -3.968 ms
Remote clock offset: 3.527 ms

Below is generated by plot.py at 2018-03-27 08:15:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.13 Mbit/s
95th percentile per-packet one-way delay: 94.908 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 90.13 Mbit/s
95th percentile per-packet one-way delay: 94.908 ms
Loss rate: 0.67%

Run 2: Report of Copa — Data Link

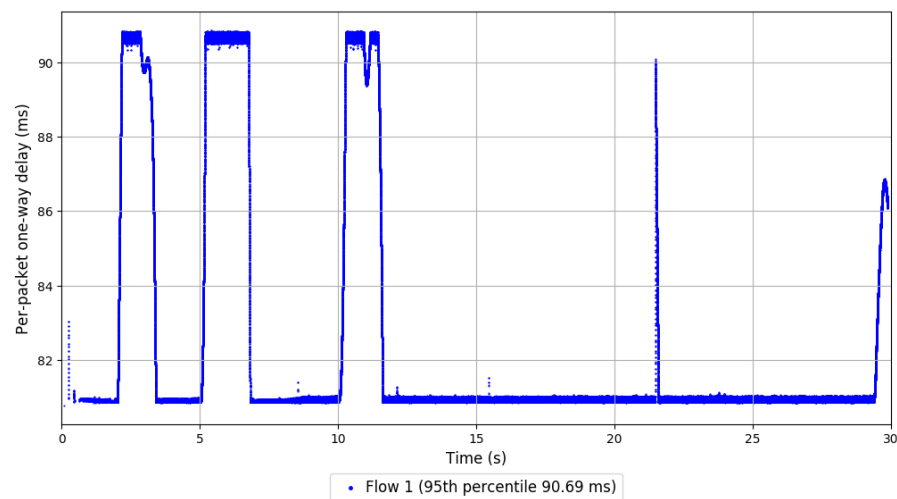
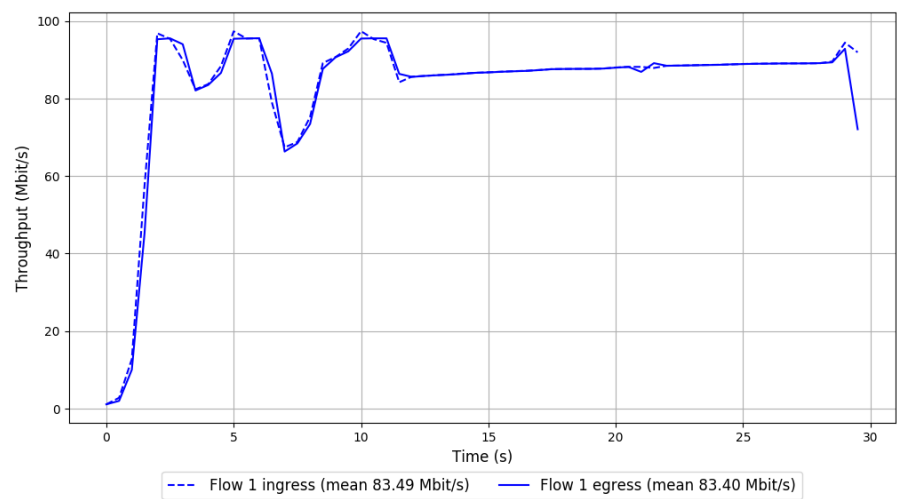


Run 3: Statistics of Copa

Start at: 2018-03-27 01:30:21
End at: 2018-03-27 01:30:51
Local clock offset: -4.245 ms
Remote clock offset: 9.097 ms

Below is generated by plot.py at 2018-03-27 08:15:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 83.40 Mbit/s
95th percentile per-packet one-way delay: 90.694 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 83.40 Mbit/s
95th percentile per-packet one-way delay: 90.694 ms
Loss rate: 0.72%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-03-27 01:52:38

End at: 2018-03-27 01:53:08

Local clock offset: -4.387 ms

Remote clock offset: 2.915 ms

Below is generated by plot.py at 2018-03-27 08:15:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.11 Mbit/s

95th percentile per-packet one-way delay: 90.853 ms

Loss rate: 0.63%

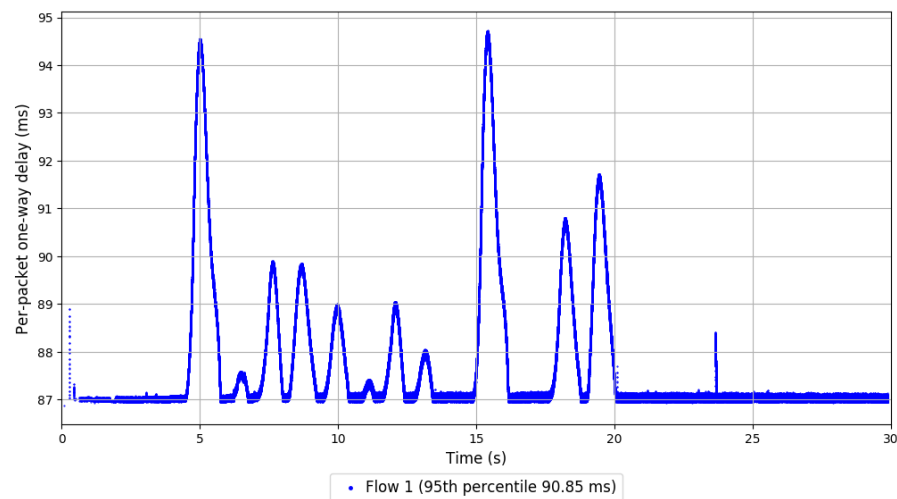
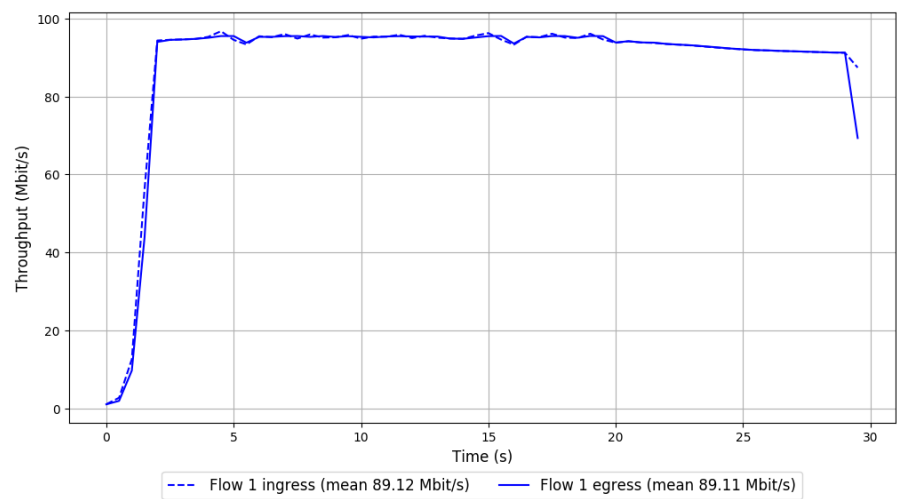
-- Flow 1:

Average throughput: 89.11 Mbit/s

95th percentile per-packet one-way delay: 90.853 ms

Loss rate: 0.63%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-03-27 02:14:50

End at: 2018-03-27 02:15:20

Local clock offset: -4.253 ms

Remote clock offset: 2.735 ms

Below is generated by plot.py at 2018-03-27 08:15:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.34 Mbit/s

95th percentile per-packet one-way delay: 94.781 ms

Loss rate: 18.12%

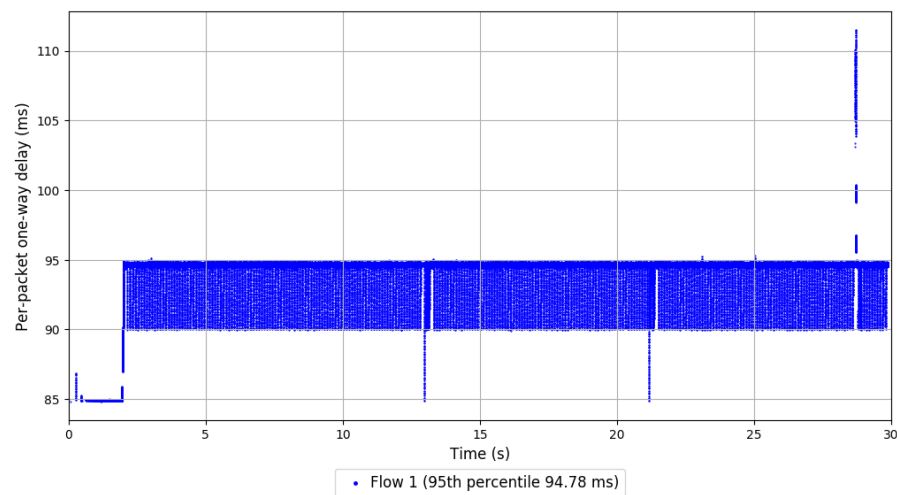
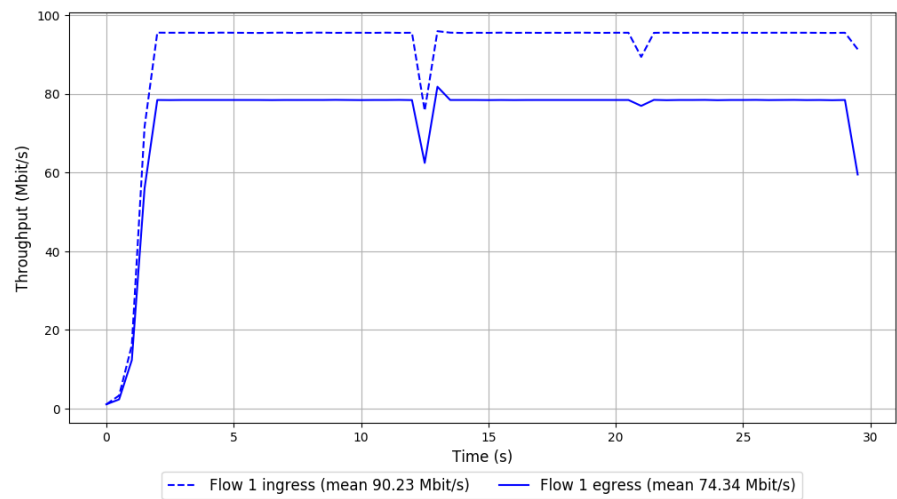
-- Flow 1:

Average throughput: 74.34 Mbit/s

95th percentile per-packet one-way delay: 94.781 ms

Loss rate: 18.12%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-03-27 02:37:06

End at: 2018-03-27 02:37:36

Local clock offset: -5.039 ms

Remote clock offset: 8.566 ms

Below is generated by plot.py at 2018-03-27 08:15:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.80 Mbit/s

95th percentile per-packet one-way delay: 88.913 ms

Loss rate: 0.62%

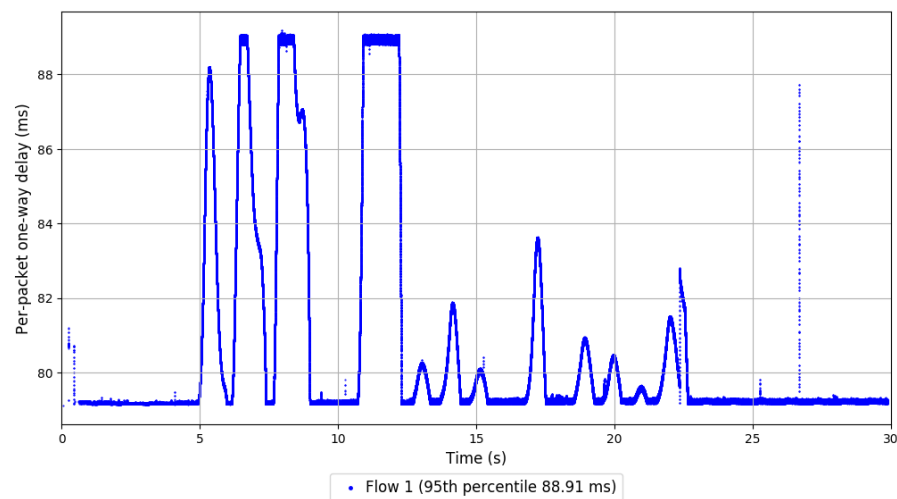
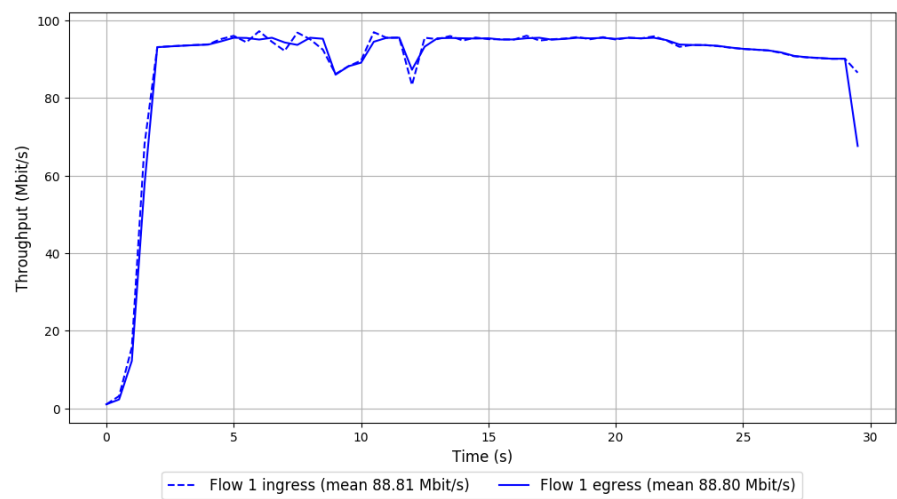
-- Flow 1:

Average throughput: 88.80 Mbit/s

95th percentile per-packet one-way delay: 88.913 ms

Loss rate: 0.62%

Run 6: Report of Copa — Data Link

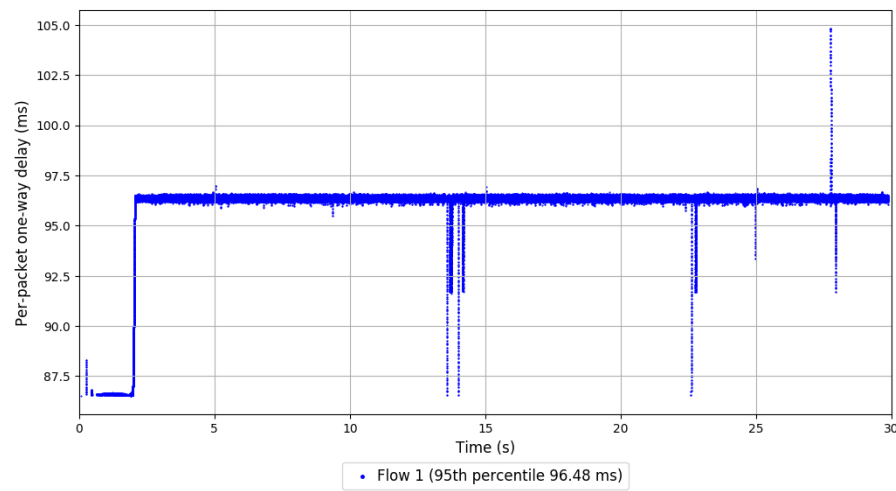
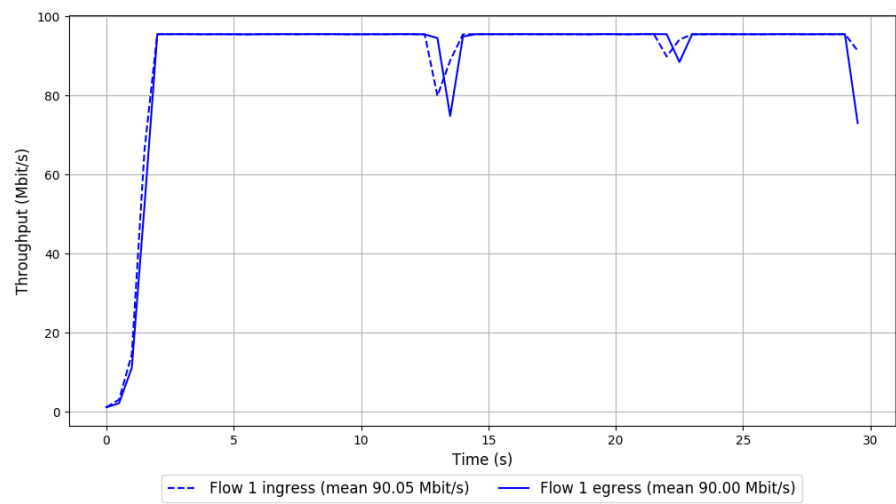


Run 7: Statistics of Copa

Start at: 2018-03-27 02:59:36
End at: 2018-03-27 03:00:06
Local clock offset: -5.682 ms
Remote clock offset: 3.105 ms

Below is generated by plot.py at 2018-03-27 08:15:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.00 Mbit/s
95th percentile per-packet one-way delay: 96.479 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 90.00 Mbit/s
95th percentile per-packet one-way delay: 96.479 ms
Loss rate: 0.68%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-03-27 03:21:53

End at: 2018-03-27 03:22:23

Local clock offset: -6.217 ms

Remote clock offset: 3.123 ms

Below is generated by plot.py at 2018-03-27 08:15:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.15 Mbit/s

95th percentile per-packet one-way delay: 96.249 ms

Loss rate: 18.13%

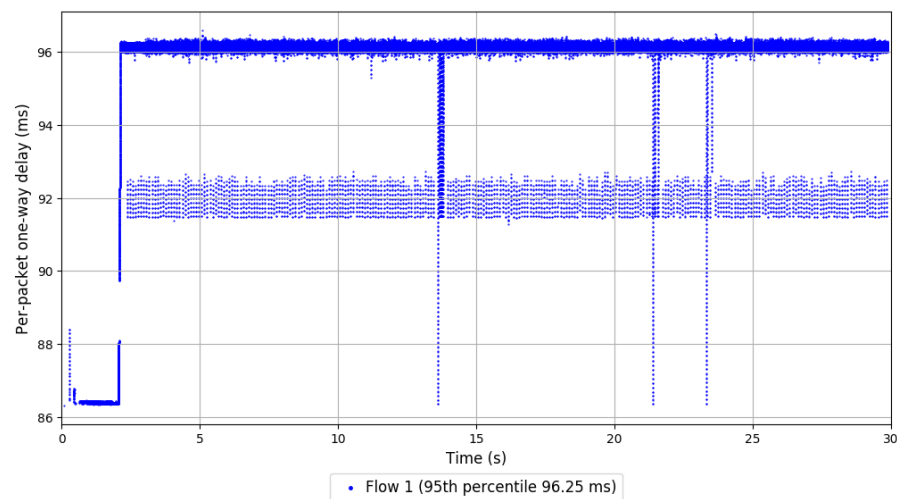
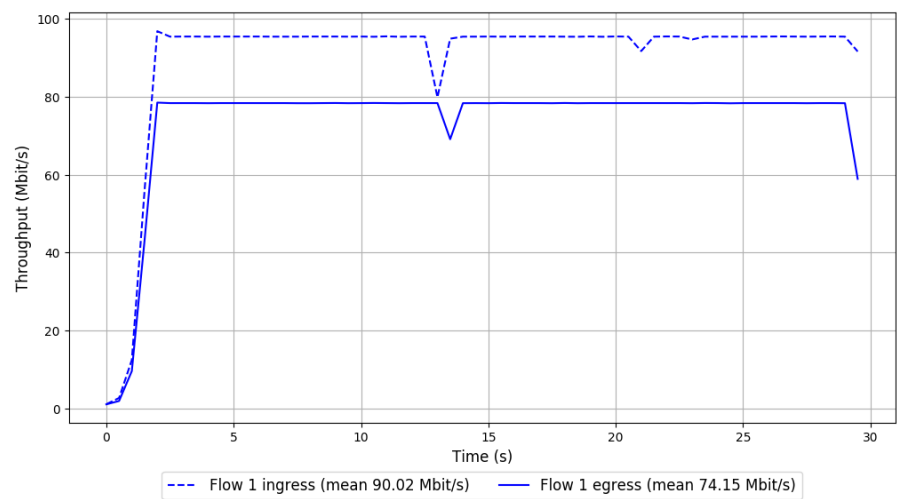
-- Flow 1:

Average throughput: 74.15 Mbit/s

95th percentile per-packet one-way delay: 96.249 ms

Loss rate: 18.13%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-03-27 03:44:13

End at: 2018-03-27 03:44:43

Local clock offset: -5.579 ms

Remote clock offset: 3.373 ms

Below is generated by plot.py at 2018-03-27 08:17:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.12 Mbit/s

95th percentile per-packet one-way delay: 95.539 ms

Loss rate: 0.68%

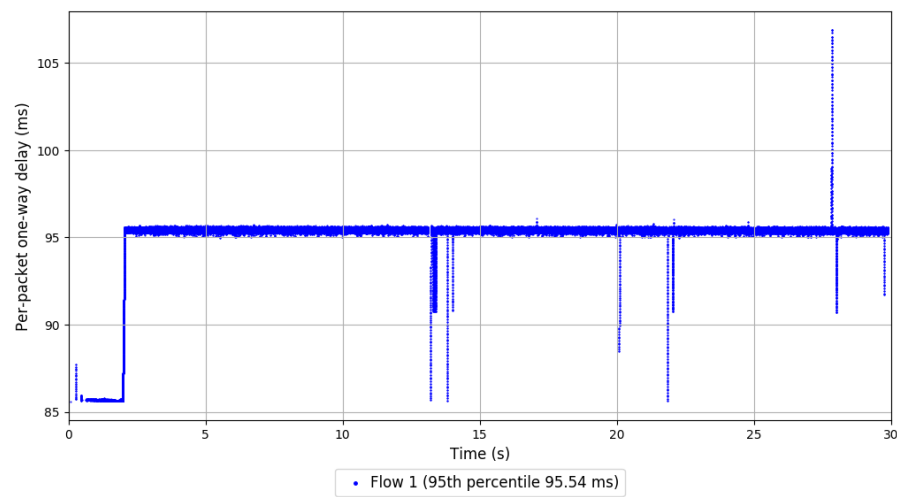
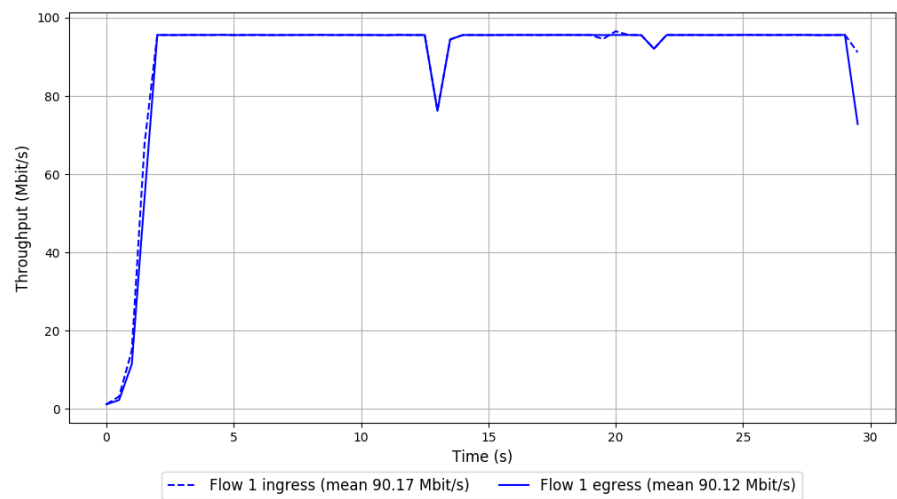
-- Flow 1:

Average throughput: 90.12 Mbit/s

95th percentile per-packet one-way delay: 95.539 ms

Loss rate: 0.68%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-03-27 04:06:26

End at: 2018-03-27 04:06:56

Local clock offset: -4.605 ms

Remote clock offset: 7.628 ms

Below is generated by plot.py at 2018-03-27 08:17:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.80 Mbit/s

95th percentile per-packet one-way delay: 92.635 ms

Loss rate: 0.70%

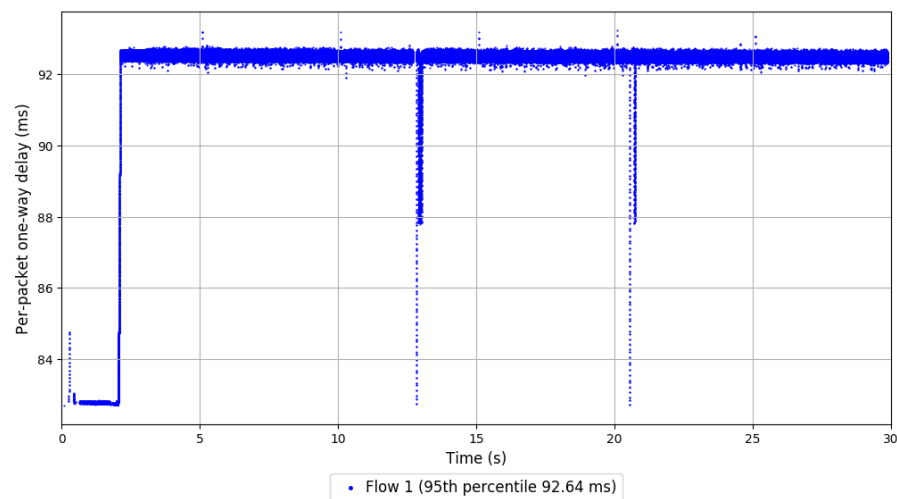
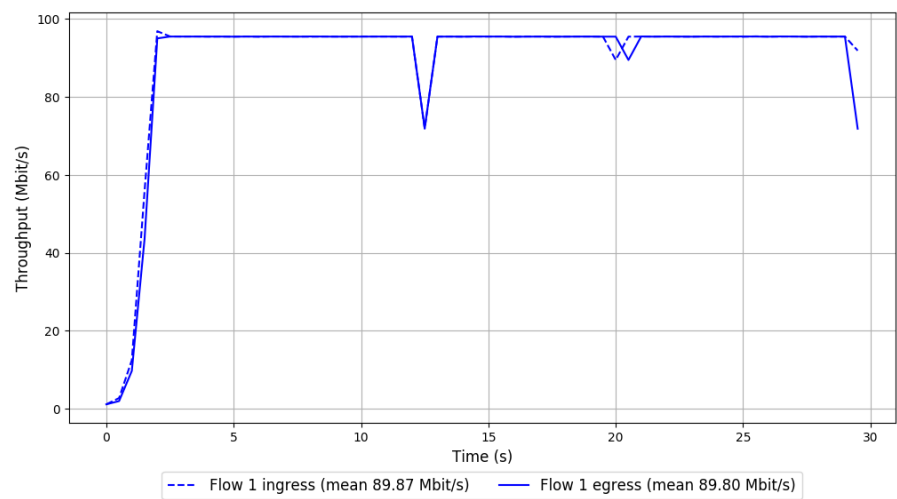
-- Flow 1:

Average throughput: 89.80 Mbit/s

95th percentile per-packet one-way delay: 92.635 ms

Loss rate: 0.70%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-03-27 00:49:30

End at: 2018-03-27 00:50:00

Local clock offset: -1.24 ms

Remote clock offset: 3.336 ms

Below is generated by plot.py at 2018-03-27 08:17:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.57 Mbit/s

95th percentile per-packet one-way delay: 95.603 ms

Loss rate: 16.45%

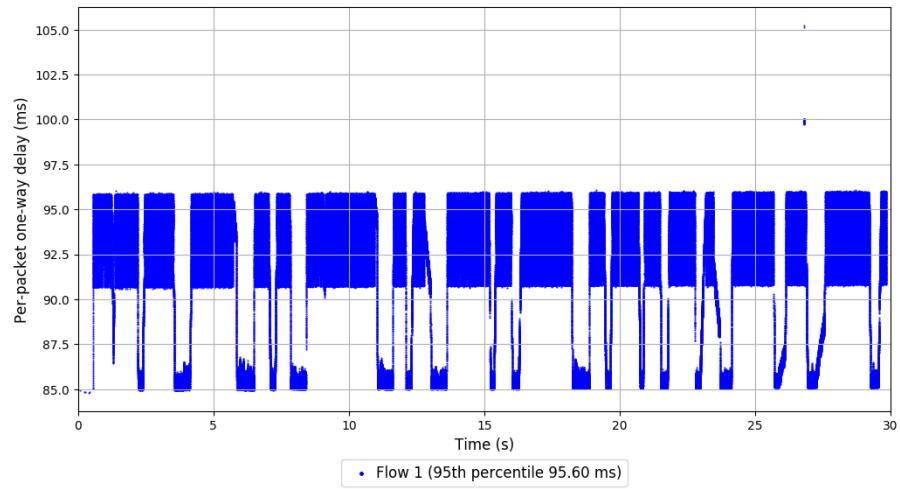
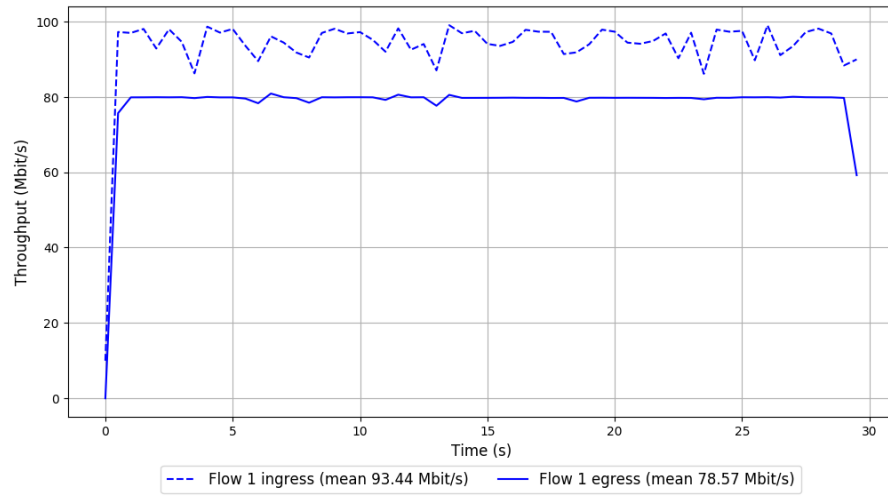
-- Flow 1:

Average throughput: 78.57 Mbit/s

95th percentile per-packet one-way delay: 95.603 ms

Loss rate: 16.45%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-03-27 01:11:50

End at: 2018-03-27 01:12:20

Local clock offset: -4.077 ms

Remote clock offset: 9.293 ms

Below is generated by plot.py at 2018-03-27 08:17:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.74 Mbit/s

95th percentile per-packet one-way delay: 90.109 ms

Loss rate: 0.66%

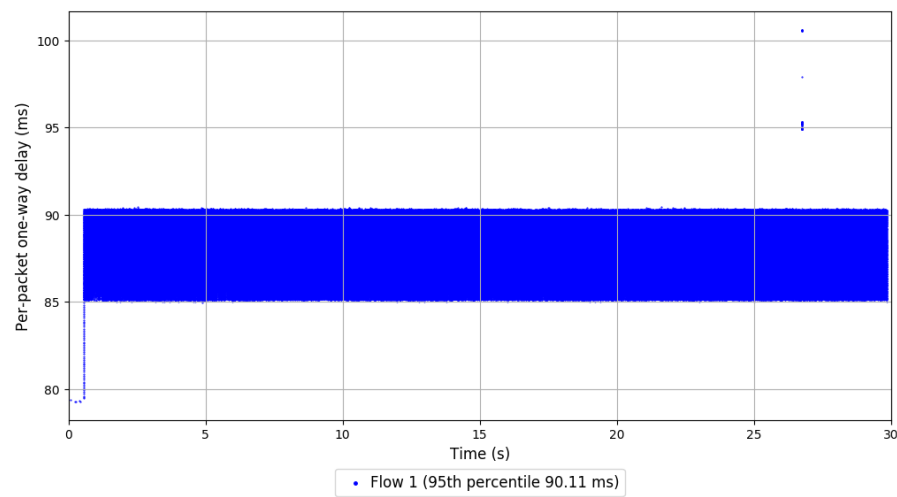
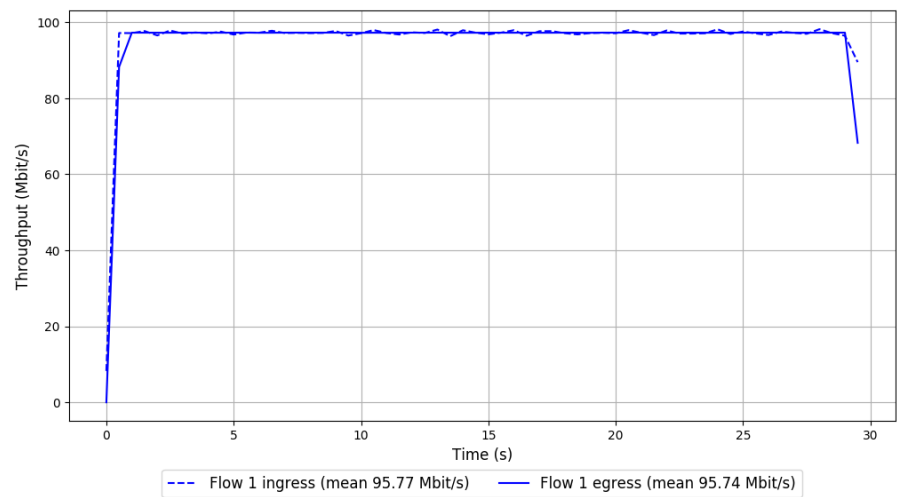
-- Flow 1:

Average throughput: 95.74 Mbit/s

95th percentile per-packet one-way delay: 90.109 ms

Loss rate: 0.66%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-03-27 01:34:03

End at: 2018-03-27 01:34:33

Local clock offset: -4.256 ms

Remote clock offset: 6.33 ms

Below is generated by plot.py at 2018-03-27 08:17:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.79 Mbit/s

95th percentile per-packet one-way delay: 92.731 ms

Loss rate: 0.65%

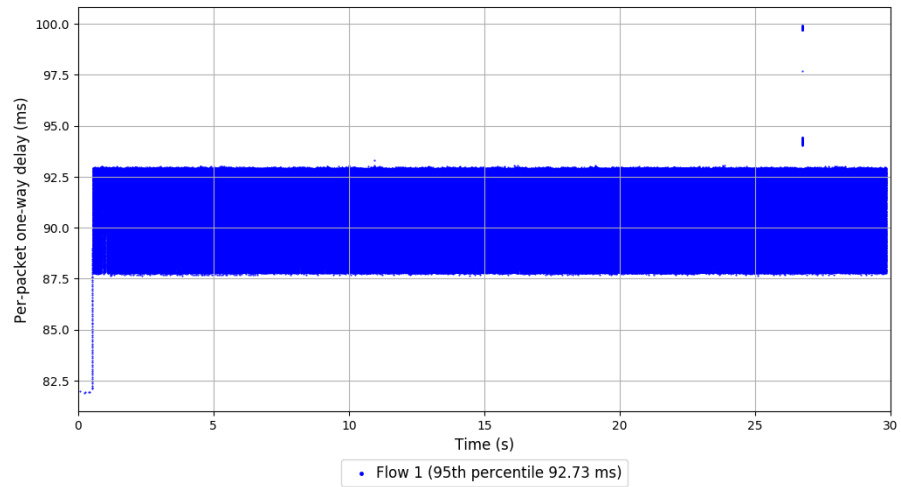
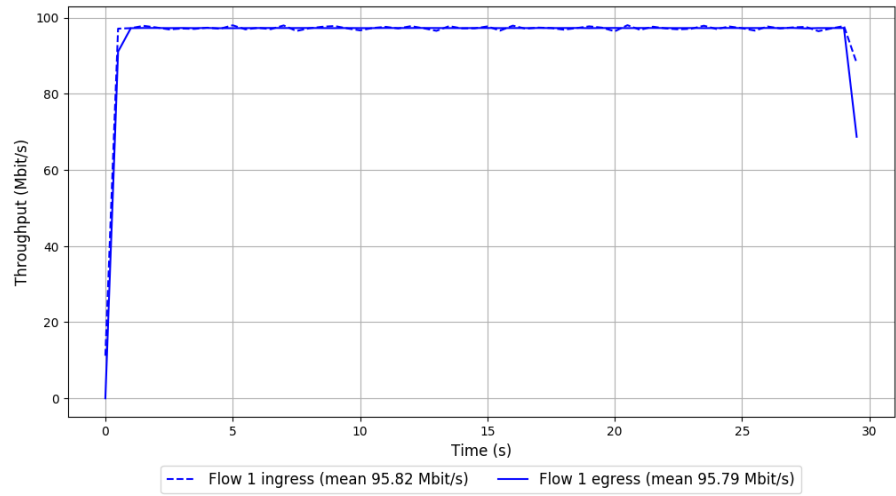
-- Flow 1:

Average throughput: 95.79 Mbit/s

95th percentile per-packet one-way delay: 92.731 ms

Loss rate: 0.65%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-03-27 01:56:19

End at: 2018-03-27 01:56:49

Local clock offset: -4.274 ms

Remote clock offset: 8.702 ms

Below is generated by plot.py at 2018-03-27 08:17:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.03 Mbit/s

95th percentile per-packet one-way delay: 91.819 ms

Loss rate: 13.86%

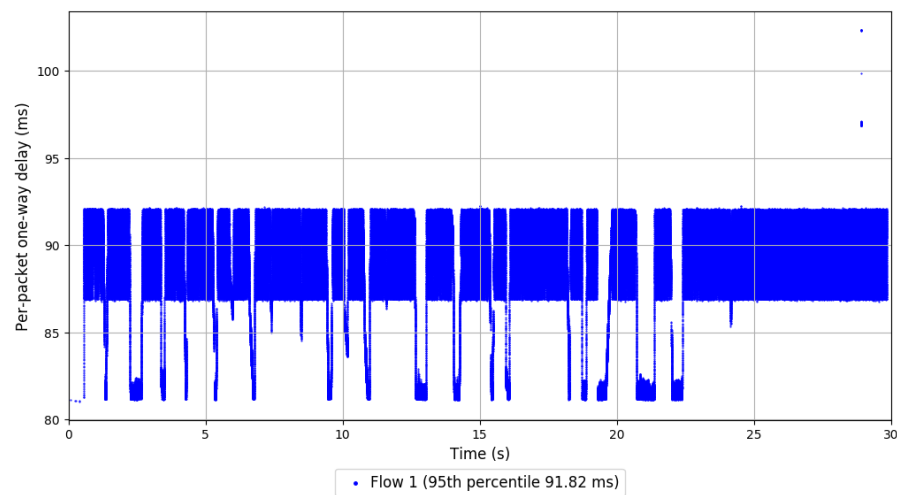
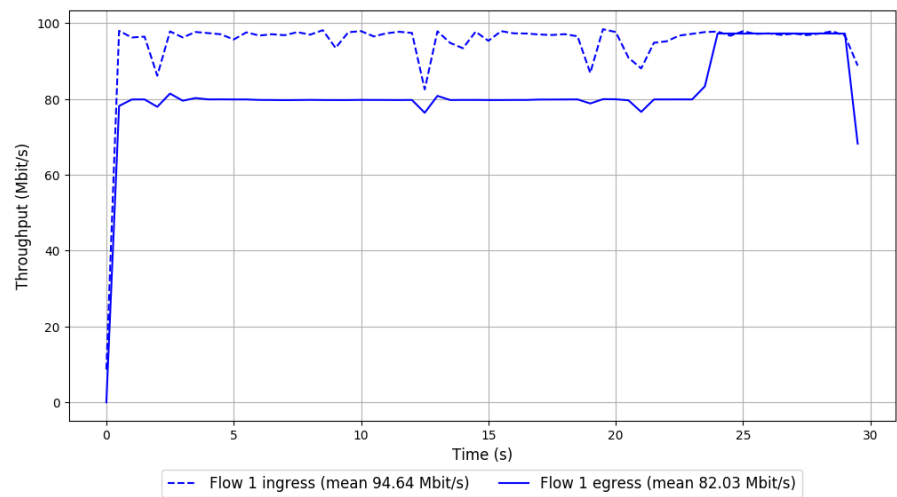
-- Flow 1:

Average throughput: 82.03 Mbit/s

95th percentile per-packet one-way delay: 91.819 ms

Loss rate: 13.86%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-03-27 02:18:32

End at: 2018-03-27 02:19:02

Local clock offset: -4.257 ms

Remote clock offset: 8.562 ms

Below is generated by plot.py at 2018-03-27 08:17:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.93 Mbit/s

95th percentile per-packet one-way delay: 89.842 ms

Loss rate: 15.78%

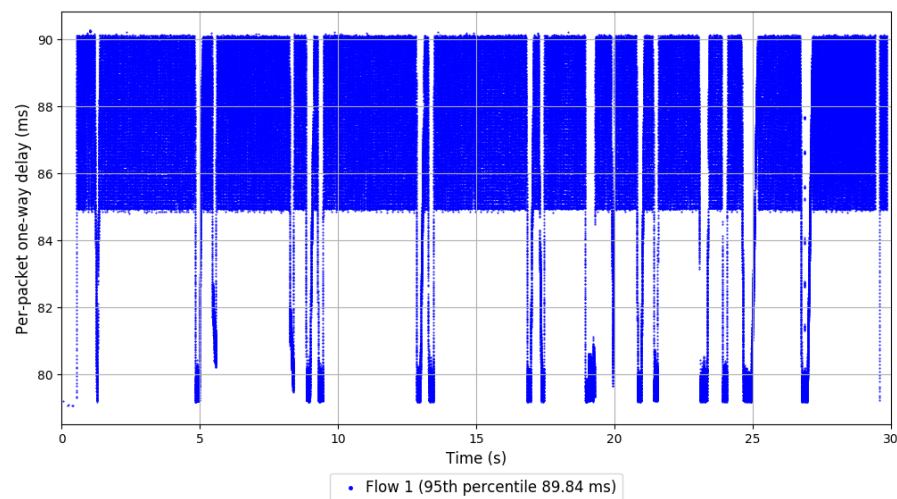
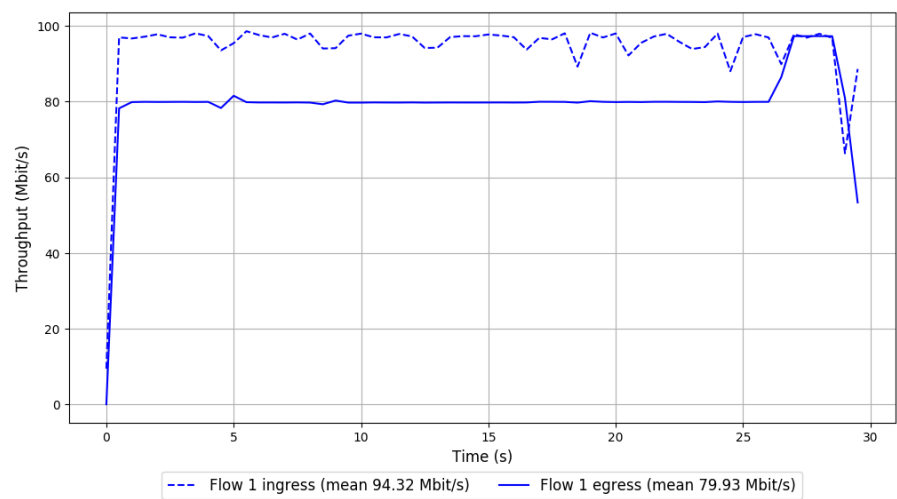
-- Flow 1:

Average throughput: 79.93 Mbit/s

95th percentile per-packet one-way delay: 89.842 ms

Loss rate: 15.78%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-03-27 02:40:47

End at: 2018-03-27 02:41:17

Local clock offset: -5.161 ms

Remote clock offset: 2.644 ms

Below is generated by plot.py at 2018-03-27 08:17:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.79 Mbit/s

95th percentile per-packet one-way delay: 95.930 ms

Loss rate: 0.66%

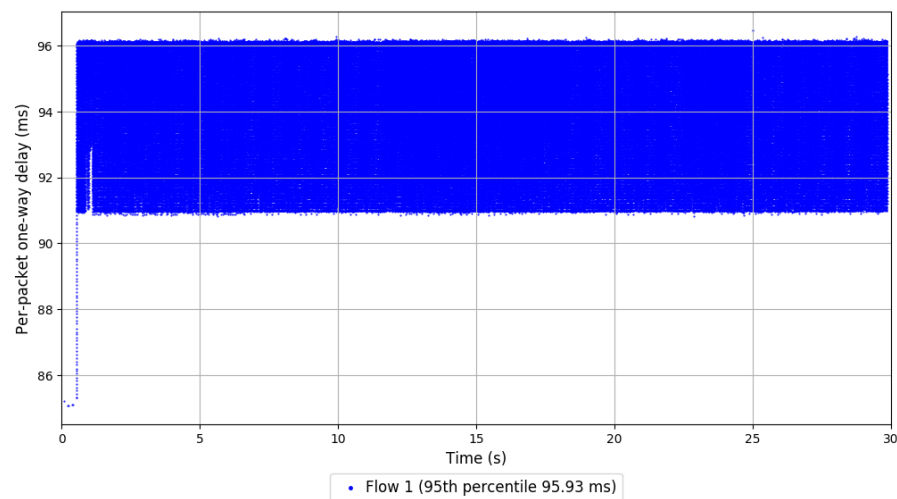
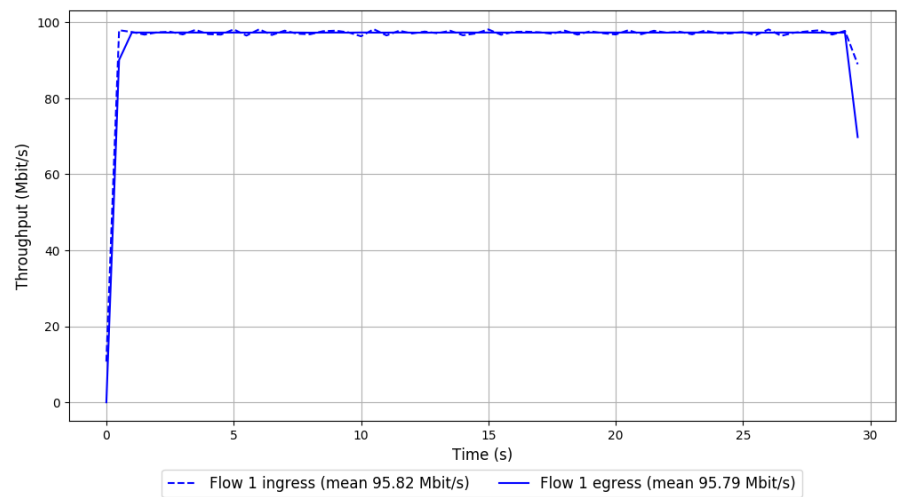
-- Flow 1:

Average throughput: 95.79 Mbit/s

95th percentile per-packet one-way delay: 95.930 ms

Loss rate: 0.66%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-03-27 03:03:18

End at: 2018-03-27 03:03:48

Local clock offset: -5.826 ms

Remote clock offset: 2.668 ms

Below is generated by plot.py at 2018-03-27 08:17:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.73 Mbit/s

95th percentile per-packet one-way delay: 96.727 ms

Loss rate: 0.66%

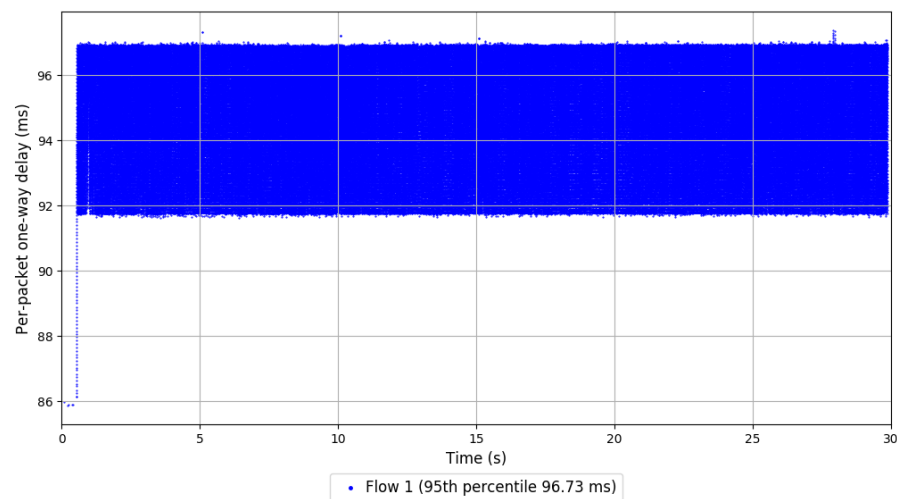
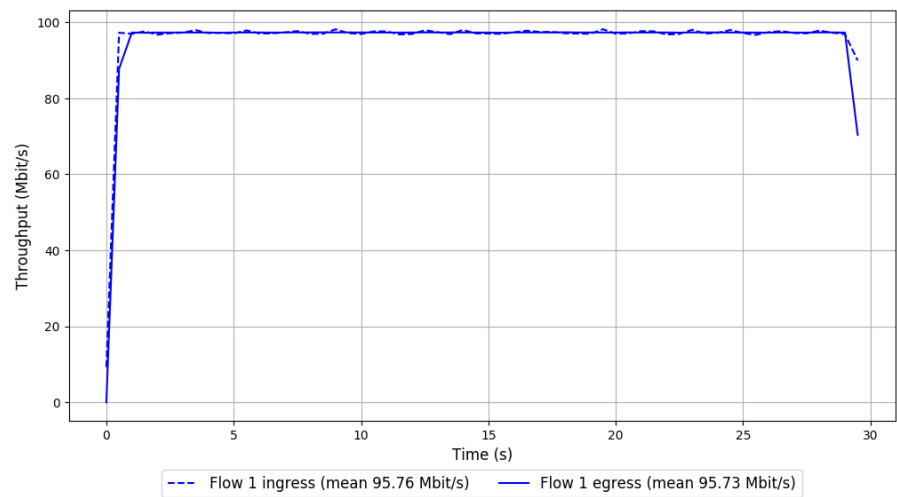
-- Flow 1:

Average throughput: 95.73 Mbit/s

95th percentile per-packet one-way delay: 96.727 ms

Loss rate: 0.66%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-03-27 03:25:37

End at: 2018-03-27 03:26:07

Local clock offset: -6.279 ms

Remote clock offset: 8.0 ms

Below is generated by plot.py at 2018-03-27 08:18:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.75 Mbit/s

95th percentile per-packet one-way delay: 91.986 ms

Loss rate: 0.66%

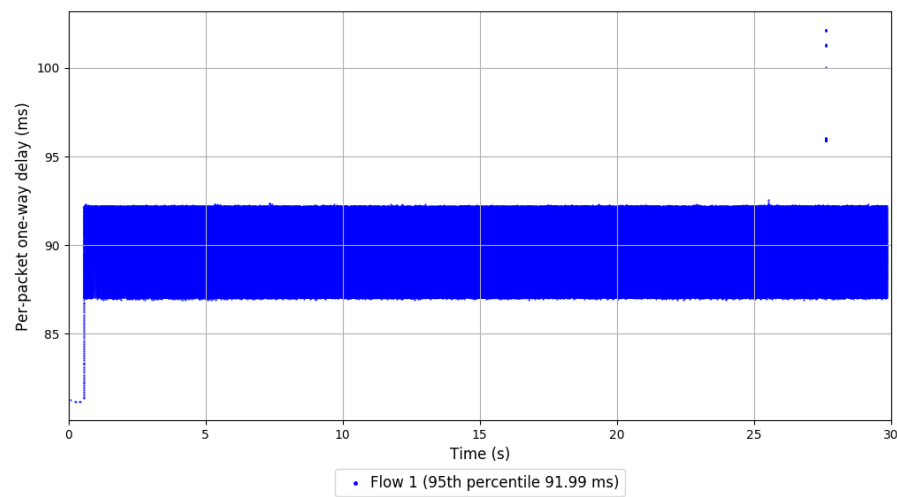
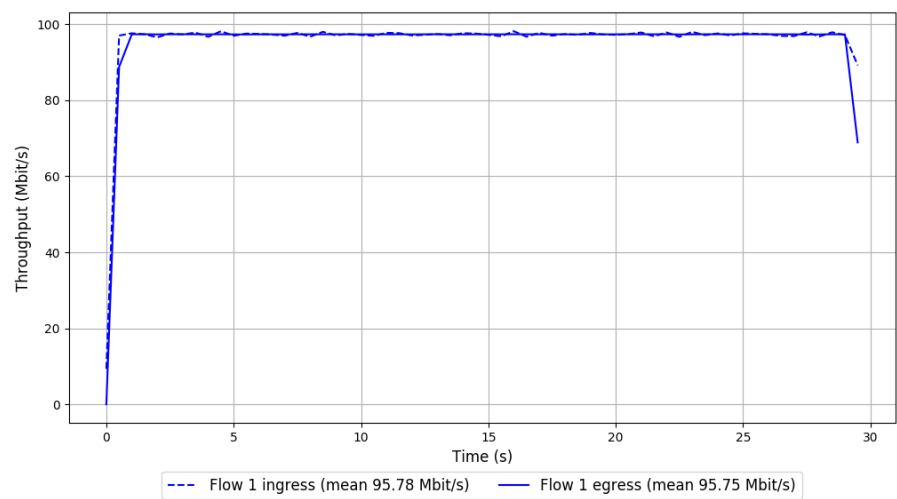
-- Flow 1:

Average throughput: 95.75 Mbit/s

95th percentile per-packet one-way delay: 91.986 ms

Loss rate: 0.66%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-03-27 03:47:55

End at: 2018-03-27 03:48:25

Local clock offset: -5.304 ms

Remote clock offset: 3.292 ms

Below is generated by plot.py at 2018-03-27 08:18:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.78 Mbit/s

95th percentile per-packet one-way delay: 97.106 ms

Loss rate: 0.66%

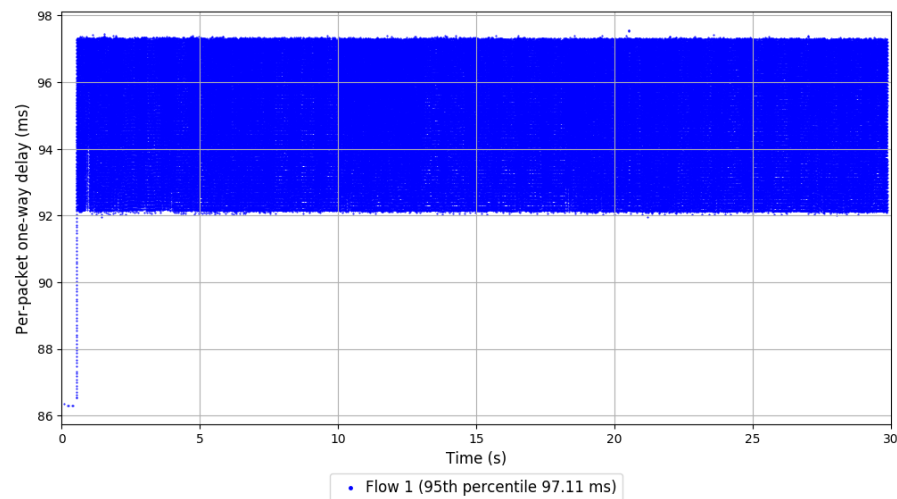
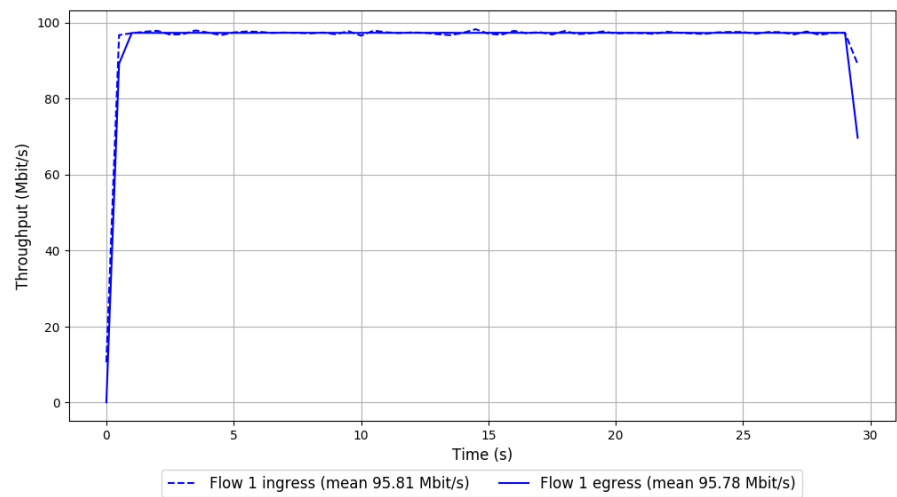
-- Flow 1:

Average throughput: 95.78 Mbit/s

95th percentile per-packet one-way delay: 97.106 ms

Loss rate: 0.66%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-03-27 04:10:08

End at: 2018-03-27 04:10:38

Local clock offset: -4.521 ms

Remote clock offset: 2.599 ms

Below is generated by plot.py at 2018-03-27 08:18:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.97 Mbit/s

95th percentile per-packet one-way delay: 95.323 ms

Loss rate: 8.59%

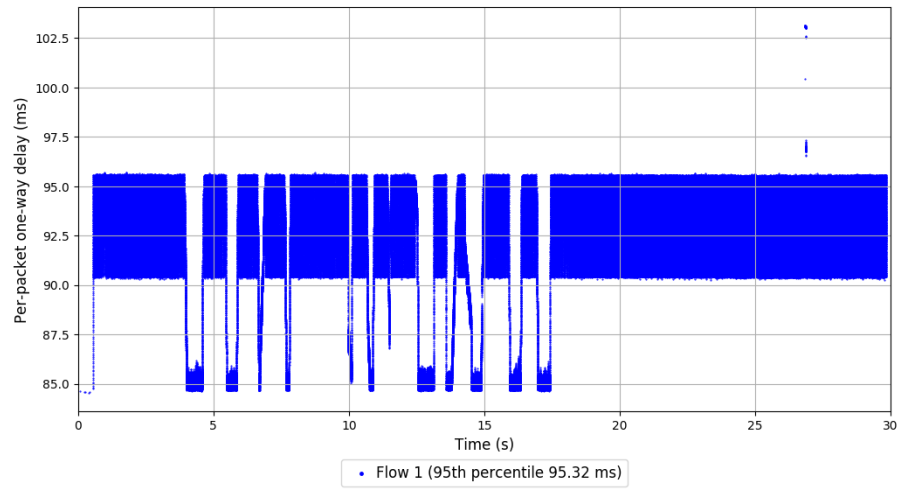
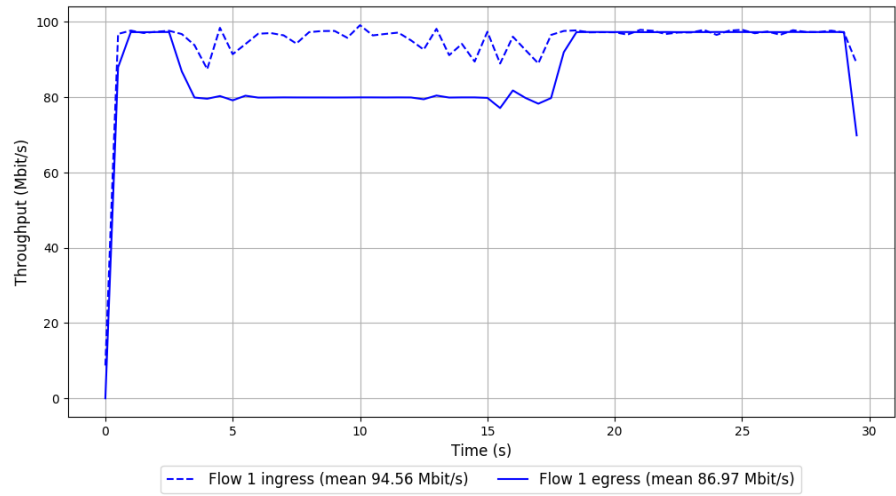
-- Flow 1:

Average throughput: 86.97 Mbit/s

95th percentile per-packet one-way delay: 95.323 ms

Loss rate: 8.59%

Run 10: Report of FillP — Data Link

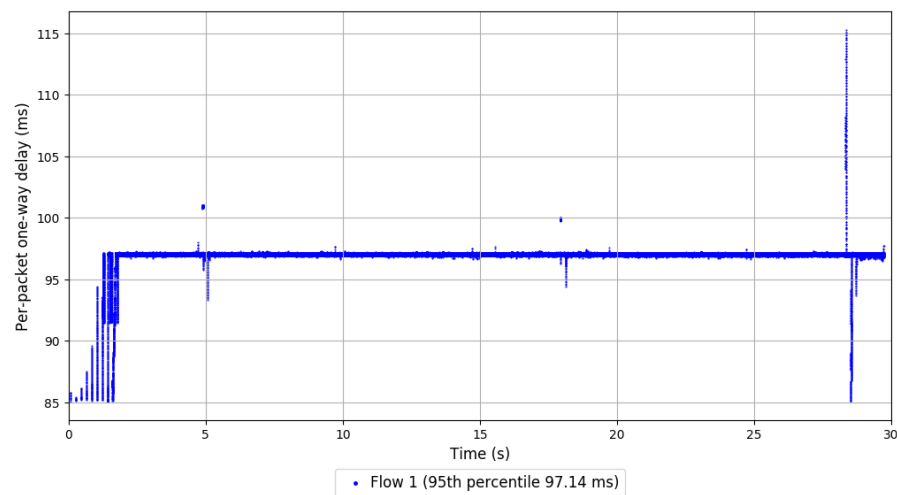
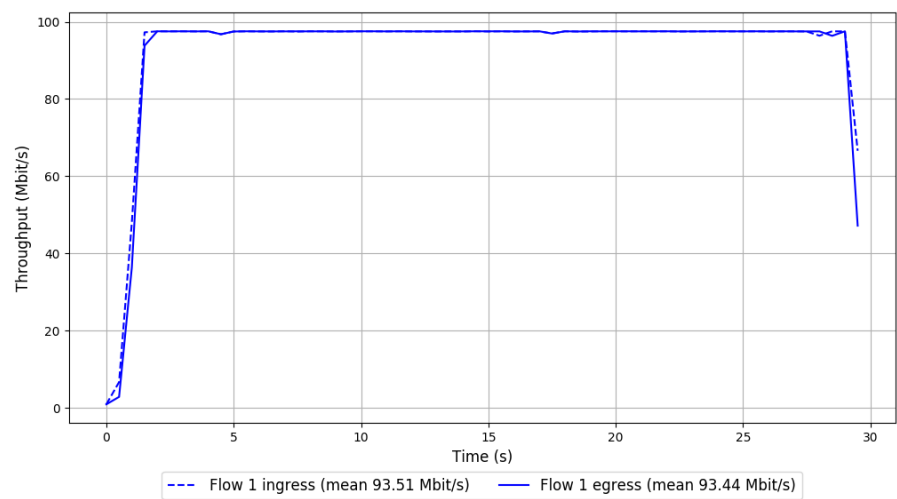


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-03-27 00:40:55
End at: 2018-03-27 00:41:25
Local clock offset: -0.205 ms
Remote clock offset: 3.378 ms

# Below is generated by plot.py at 2018-03-27 08:18:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.44 Mbit/s
95th percentile per-packet one-way delay: 97.139 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 93.44 Mbit/s
95th percentile per-packet one-way delay: 97.139 ms
Loss rate: 0.69%
```

Run 1: Report of Indigo-1-32 — Data Link



Run 2: Statistics of Indigo-1-32

Start at: 2018-03-27 01:03:15

End at: 2018-03-27 01:03:45

Local clock offset: -3.603 ms

Remote clock offset: 9.379 ms

Below is generated by plot.py at 2018-03-27 08:18:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.95 Mbit/s

95th percentile per-packet one-way delay: 91.192 ms

Loss rate: 14.22%

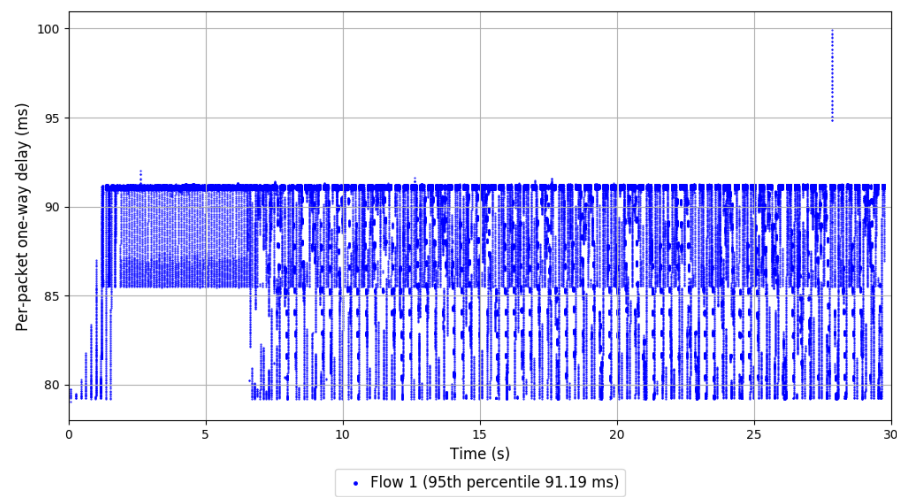
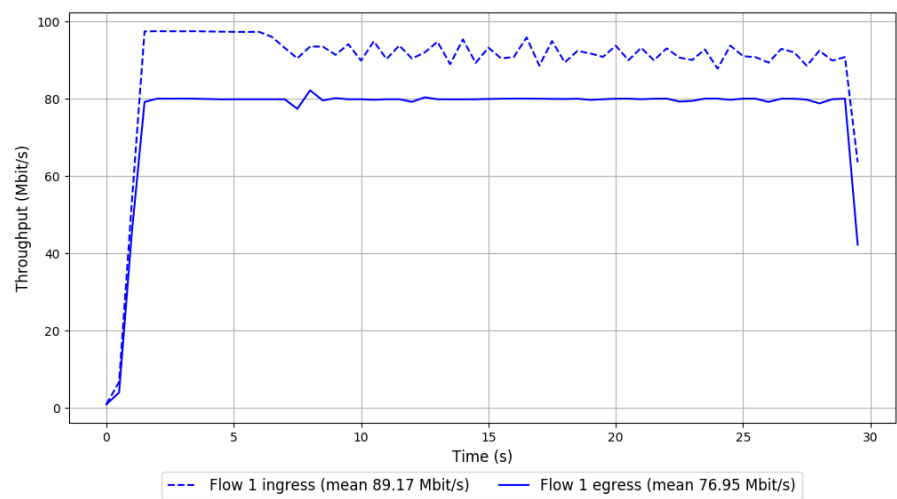
-- Flow 1:

Average throughput: 76.95 Mbit/s

95th percentile per-packet one-way delay: 91.192 ms

Loss rate: 14.22%

Run 2: Report of Indigo-1-32 — Data Link



Run 3: Statistics of Indigo-1-32

Start at: 2018-03-27 01:25:28

End at: 2018-03-27 01:25:59

Local clock offset: -4.236 ms

Remote clock offset: 3.235 ms

Below is generated by plot.py at 2018-03-27 08:18:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.24 Mbit/s

95th percentile per-packet one-way delay: 97.223 ms

Loss rate: 9.67%

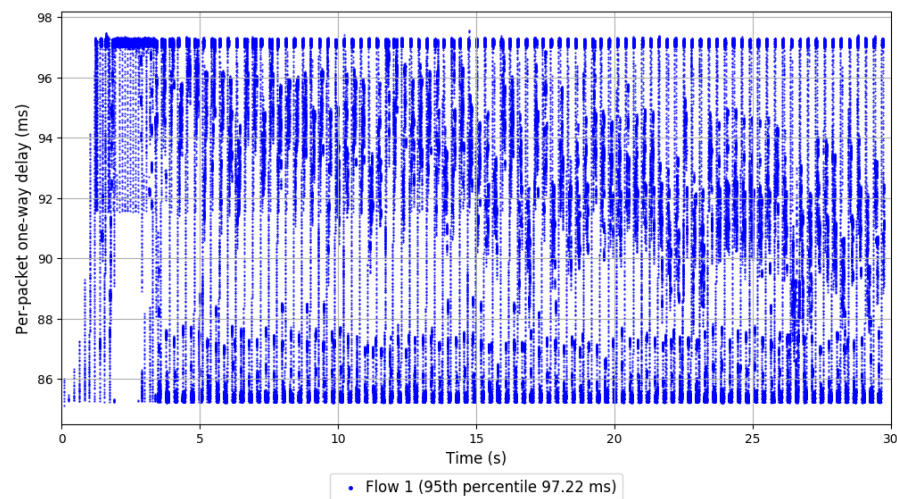
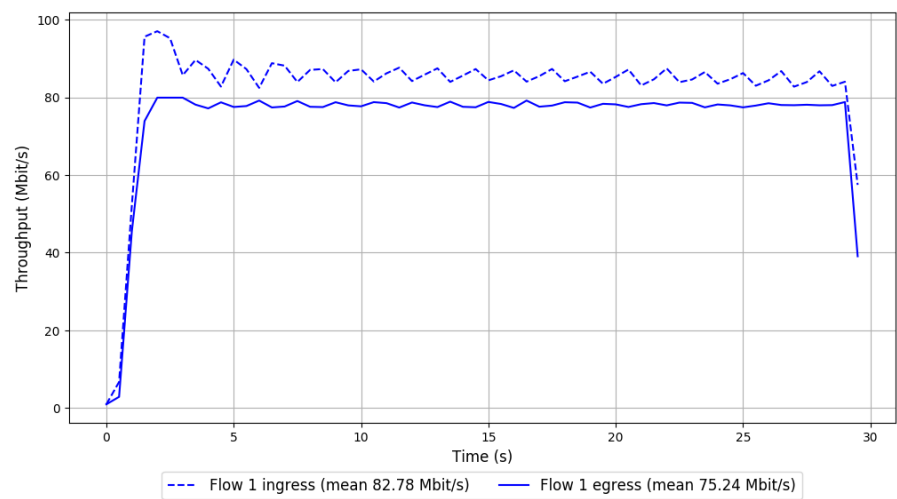
-- Flow 1:

Average throughput: 75.24 Mbit/s

95th percentile per-packet one-way delay: 97.223 ms

Loss rate: 9.67%

Run 3: Report of Indigo-1-32 — Data Link



Run 4: Statistics of Indigo-1-32

Start at: 2018-03-27 01:47:45

End at: 2018-03-27 01:48:15

Local clock offset: -4.26 ms

Remote clock offset: 3.057 ms

Below is generated by plot.py at 2018-03-27 08:18:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.38 Mbit/s

95th percentile per-packet one-way delay: 99.105 ms

Loss rate: 0.69%

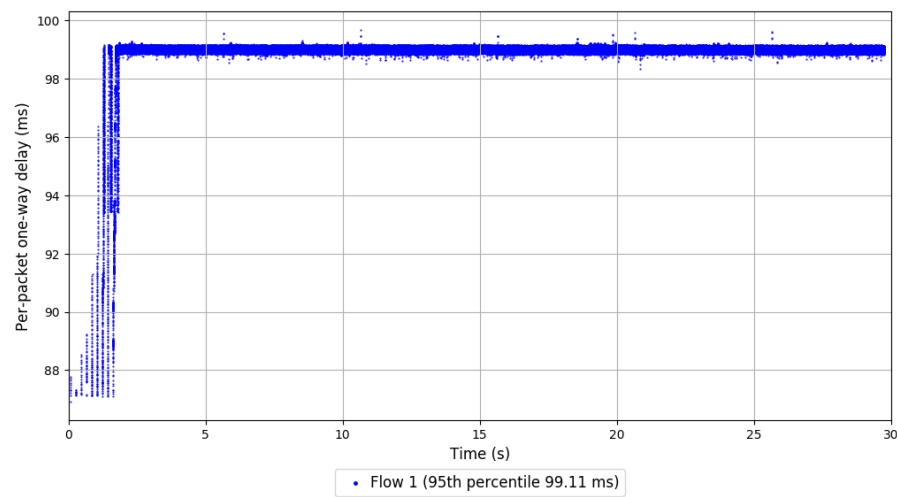
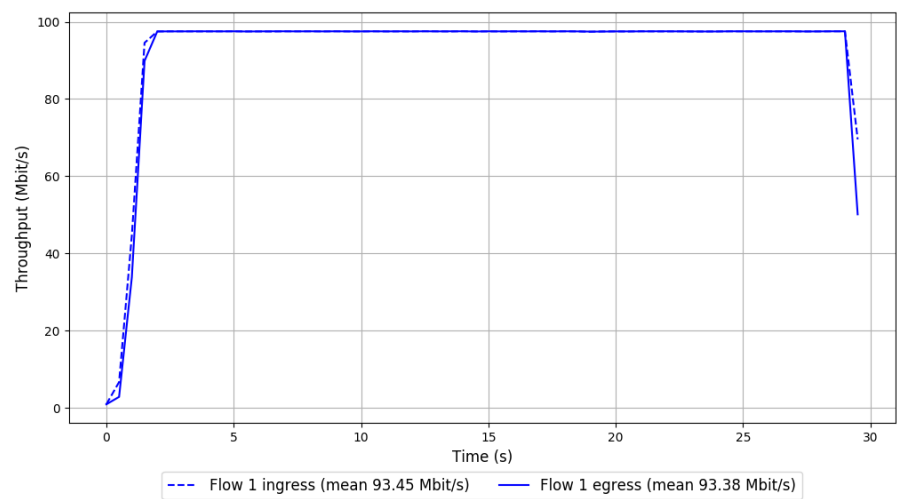
-- Flow 1:

Average throughput: 93.38 Mbit/s

95th percentile per-packet one-way delay: 99.105 ms

Loss rate: 0.69%

Run 4: Report of Indigo-1-32 — Data Link



Run 5: Statistics of Indigo-1-32

Start at: 2018-03-27 02:09:58

End at: 2018-03-27 02:10:28

Local clock offset: -4.321 ms

Remote clock offset: 8.754 ms

Below is generated by plot.py at 2018-03-27 08:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.67 Mbit/s

95th percentile per-packet one-way delay: 91.222 ms

Loss rate: 0.67%

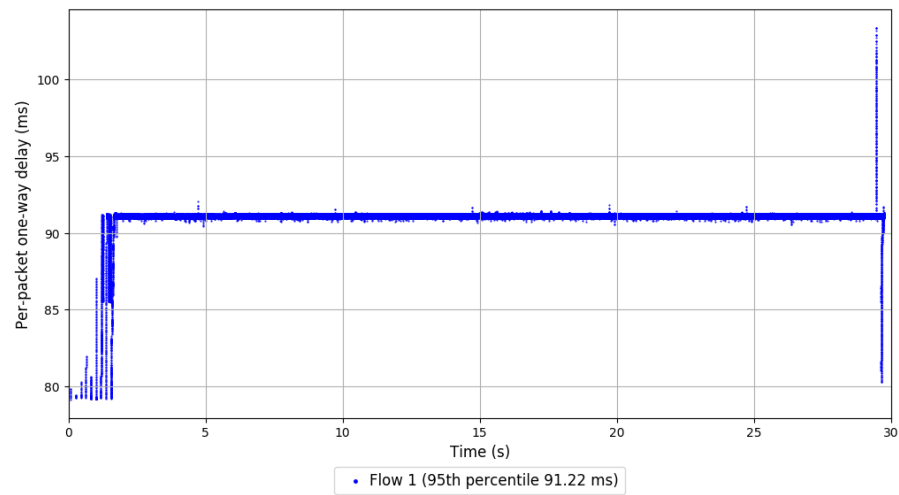
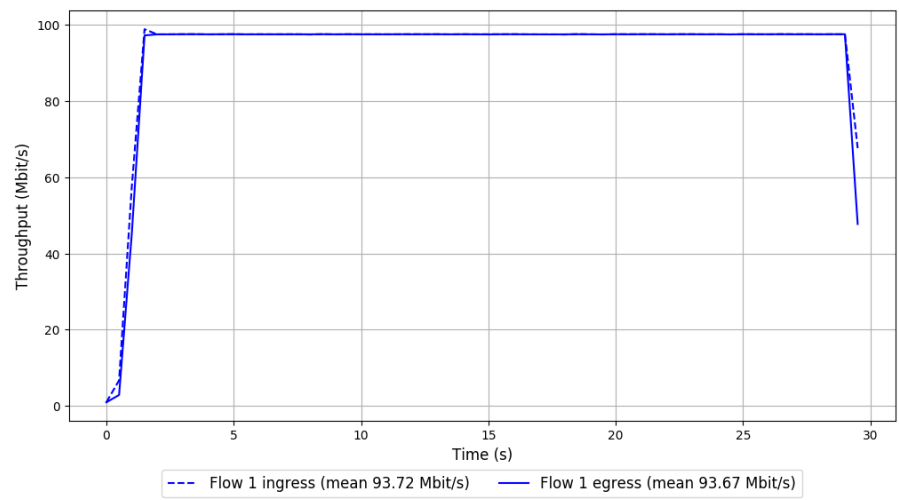
-- Flow 1:

Average throughput: 93.67 Mbit/s

95th percentile per-packet one-way delay: 91.222 ms

Loss rate: 0.67%

Run 5: Report of Indigo-1-32 — Data Link



Run 6: Statistics of Indigo-1-32

Start at: 2018-03-27 02:32:13

End at: 2018-03-27 02:32:43

Local clock offset: -4.662 ms

Remote clock offset: 8.245 ms

Below is generated by plot.py at 2018-03-27 08:19:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.46 Mbit/s

95th percentile per-packet one-way delay: 90.841 ms

Loss rate: 0.68%

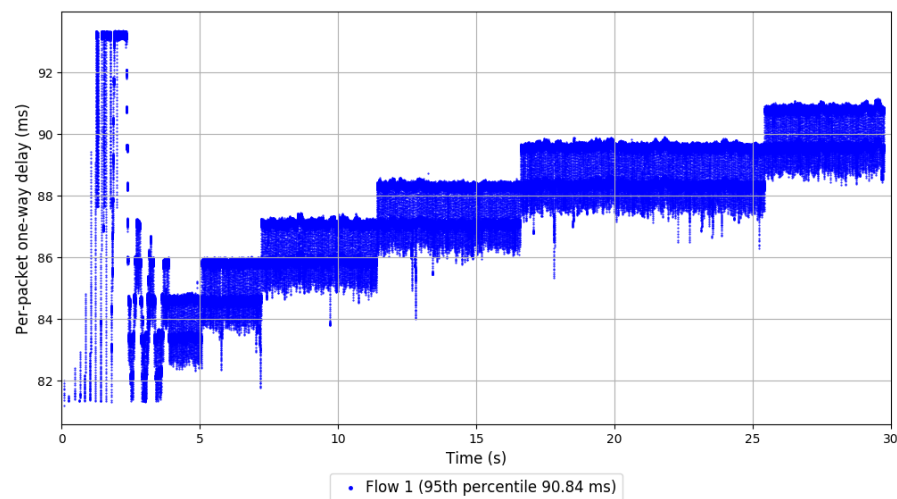
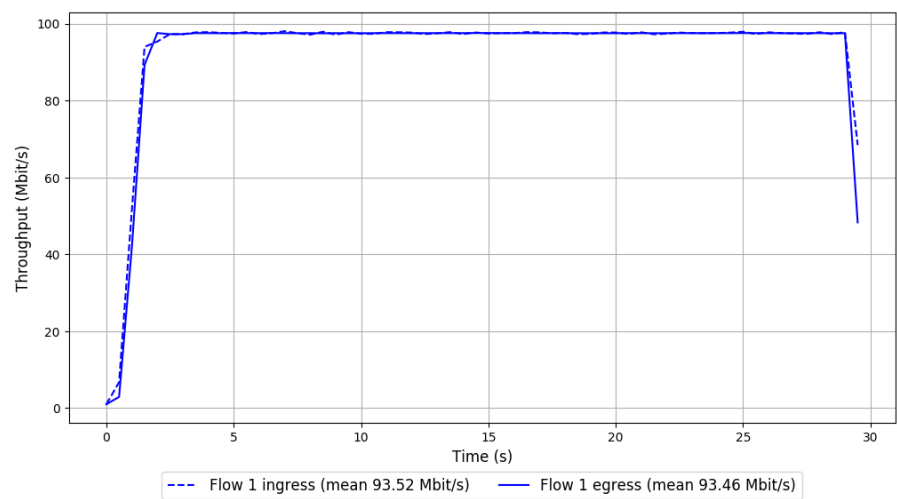
-- Flow 1:

Average throughput: 93.46 Mbit/s

95th percentile per-packet one-way delay: 90.841 ms

Loss rate: 0.68%

Run 6: Report of Indigo-1-32 — Data Link



Run 7: Statistics of Indigo-1-32

/home/ubuntu/pantheon_data/2018-03-27T00-32-Colombia-to-AWS-Brazil-2-10-runs/indigo_1_32_sta

Run 7: Report of Indigo-1-32 — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of Indigo-1-32

Start at: 2018-03-27 03:16:59

End at: 2018-03-27 03:17:29

Local clock offset: -6.114 ms

Remote clock offset: 8.046 ms

Below is generated by plot.py at 2018-03-27 08:19:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.68 Mbit/s

95th percentile per-packet one-way delay: 89.243 ms

Loss rate: 0.66%

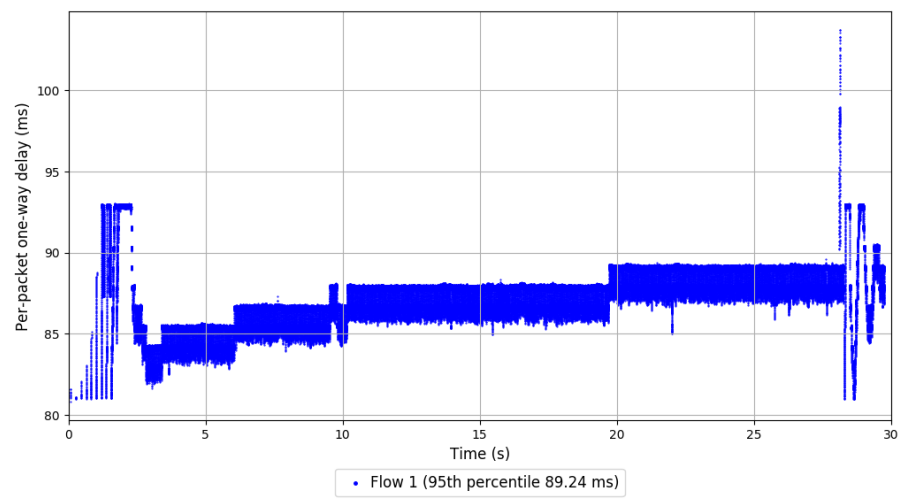
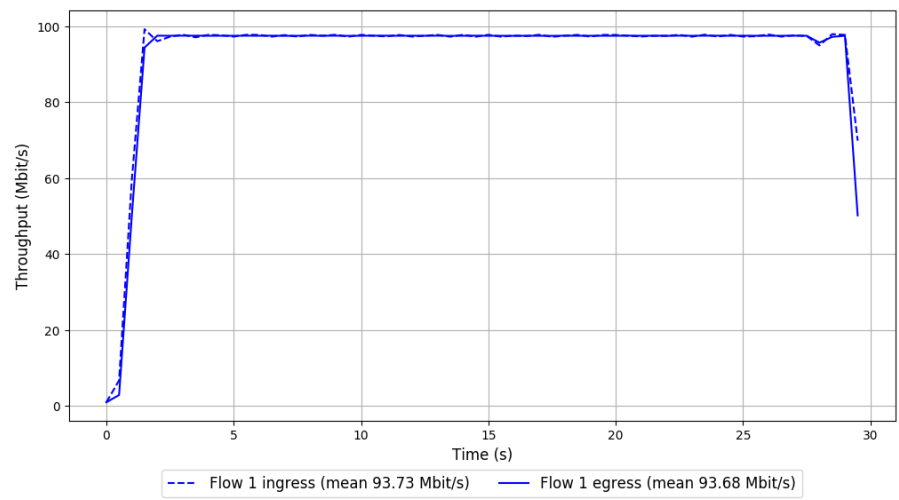
-- Flow 1:

Average throughput: 93.68 Mbit/s

95th percentile per-packet one-way delay: 89.243 ms

Loss rate: 0.66%

Run 8: Report of Indigo-1-32 — Data Link



Run 9: Statistics of Indigo-1-32

Start at: 2018-03-27 03:39:19

End at: 2018-03-27 03:39:49

Local clock offset: -6.084 ms

Remote clock offset: 8.632 ms

Below is generated by plot.py at 2018-03-27 08:19:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.74 Mbit/s

95th percentile per-packet one-way delay: 94.103 ms

Loss rate: 0.66%

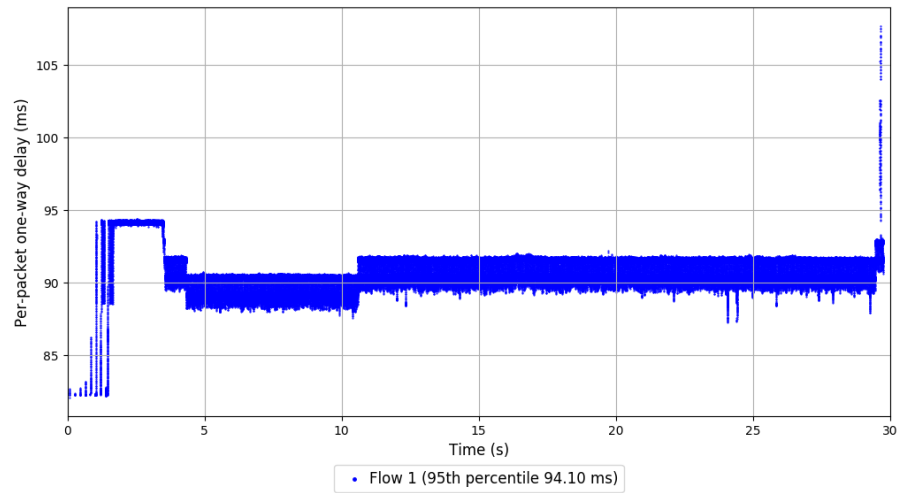
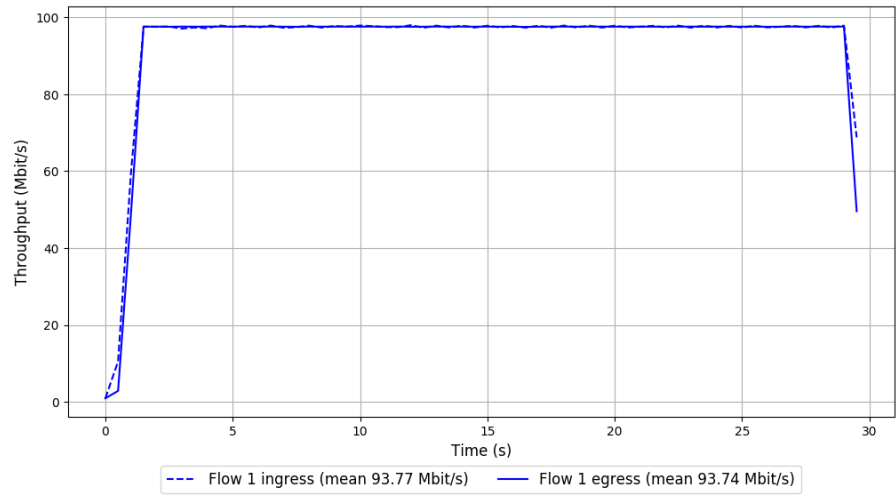
-- Flow 1:

Average throughput: 93.74 Mbit/s

95th percentile per-packet one-way delay: 94.103 ms

Loss rate: 0.66%

Run 9: Report of Indigo-1-32 — Data Link



Run 10: Statistics of Indigo-1-32

Start at: 2018-03-27 04:01:33

End at: 2018-03-27 04:02:03

Local clock offset: -4.729 ms

Remote clock offset: 3.298 ms

Below is generated by plot.py at 2018-03-27 08:19:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.63 Mbit/s

95th percentile per-packet one-way delay: 96.266 ms

Loss rate: 0.65%

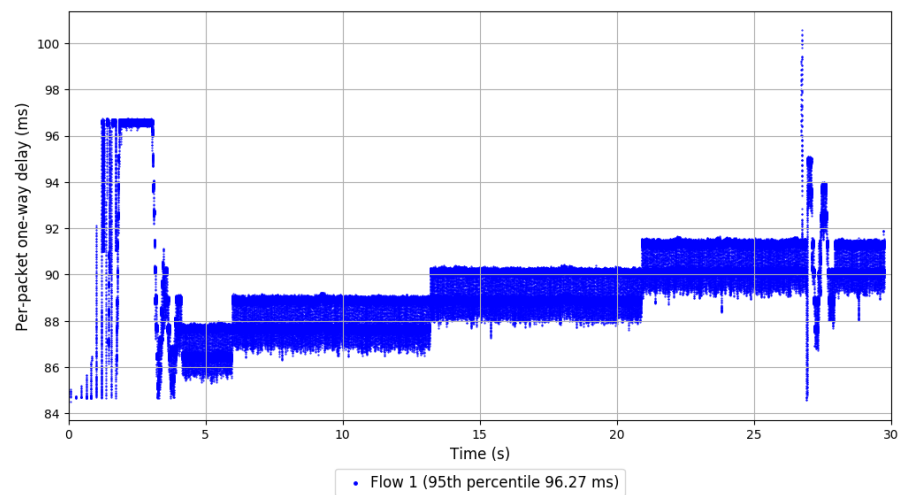
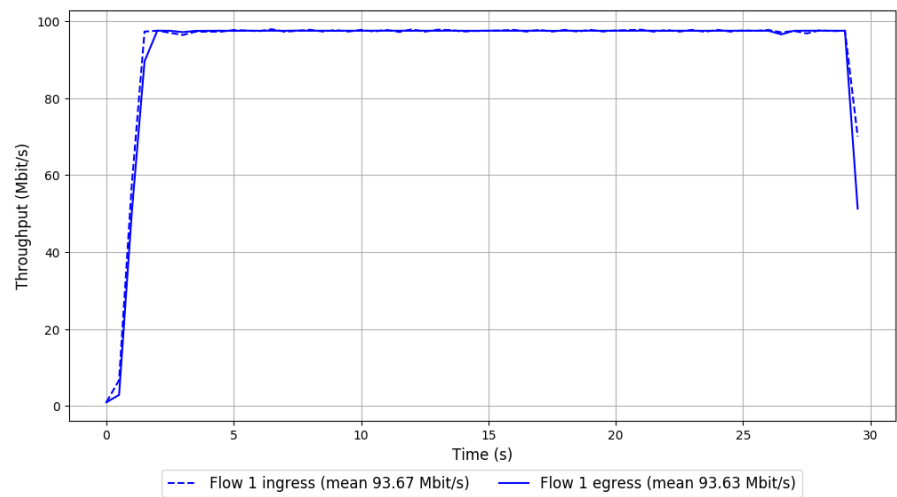
-- Flow 1:

Average throughput: 93.63 Mbit/s

95th percentile per-packet one-way delay: 96.266 ms

Loss rate: 0.65%

Run 10: Report of Indigo-1-32 — Data Link



Run 1: Statistics of Vivace-latency

Start at: 2018-03-27 00:53:17

End at: 2018-03-27 00:53:47

Local clock offset: -2.088 ms

Remote clock offset: 9.224 ms

Below is generated by plot.py at 2018-03-27 08:19:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.90 Mbit/s

95th percentile per-packet one-way delay: 92.716 ms

Loss rate: 0.75%

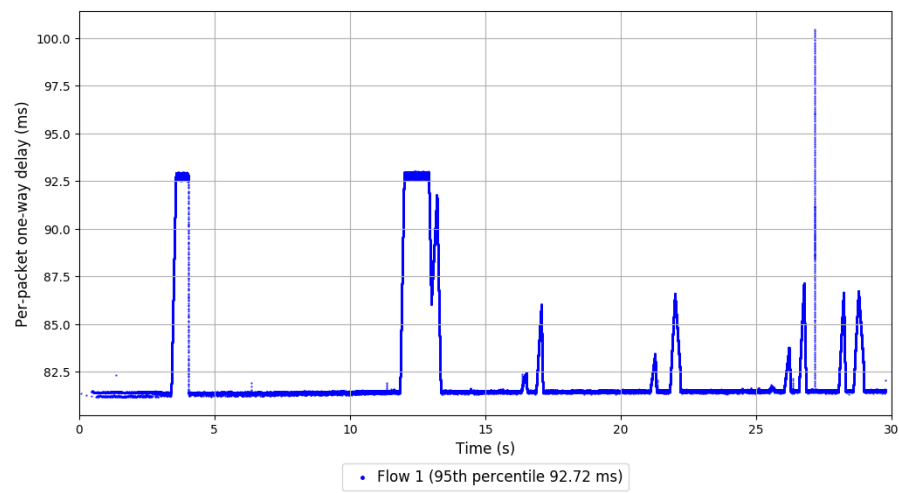
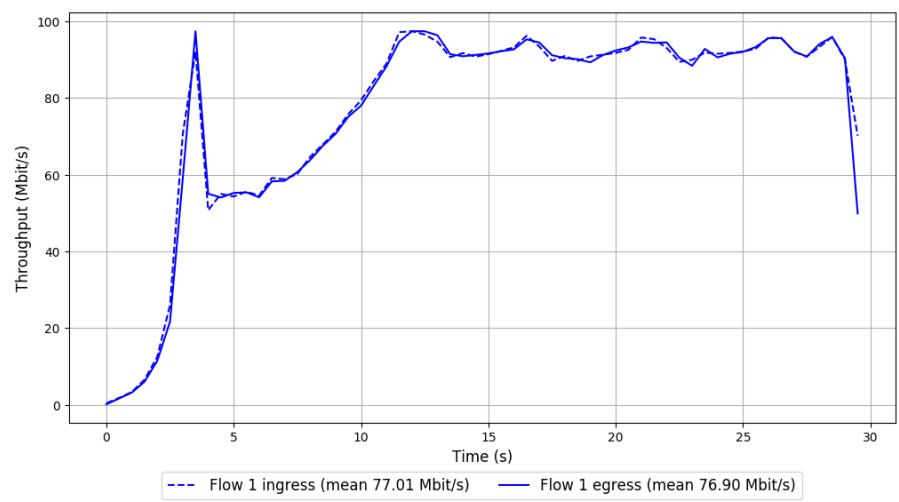
-- Flow 1:

Average throughput: 76.90 Mbit/s

95th percentile per-packet one-way delay: 92.716 ms

Loss rate: 0.75%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-03-27 01:15:38

End at: 2018-03-27 01:16:08

Local clock offset: -4.179 ms

Remote clock offset: 9.115 ms

Below is generated by plot.py at 2018-03-27 08:19:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.70 Mbit/s

95th percentile per-packet one-way delay: 92.489 ms

Loss rate: 0.75%

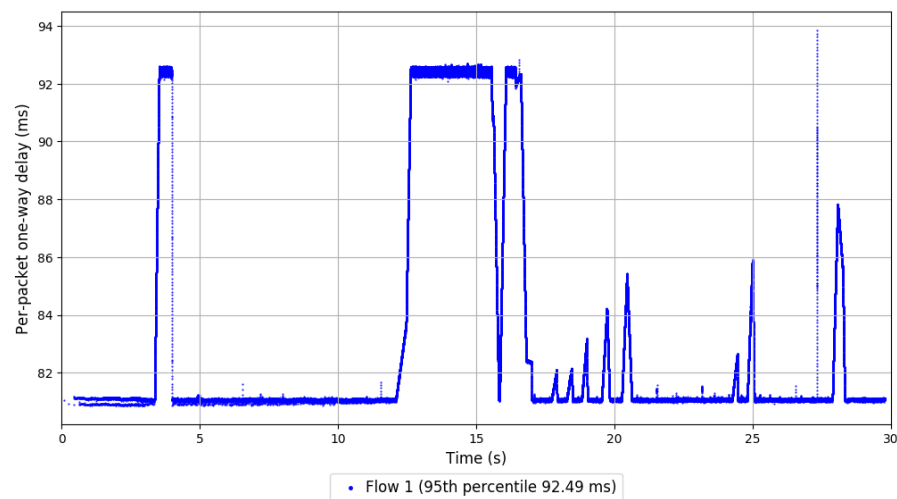
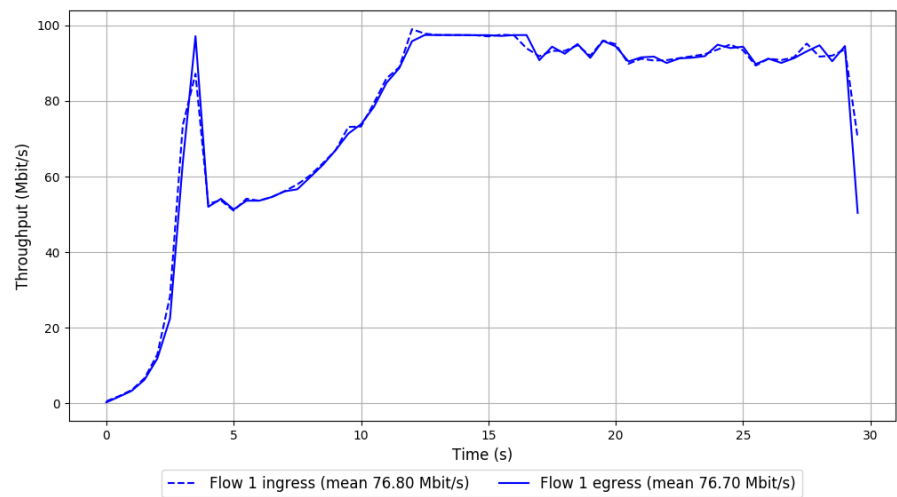
-- Flow 1:

Average throughput: 76.70 Mbit/s

95th percentile per-packet one-way delay: 92.489 ms

Loss rate: 0.75%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-03-27 01:37:49

End at: 2018-03-27 01:38:19

Local clock offset: -4.235 ms

Remote clock offset: 3.097 ms

Below is generated by plot.py at 2018-03-27 08:19:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.81 Mbit/s

95th percentile per-packet one-way delay: 95.061 ms

Loss rate: 1.24%

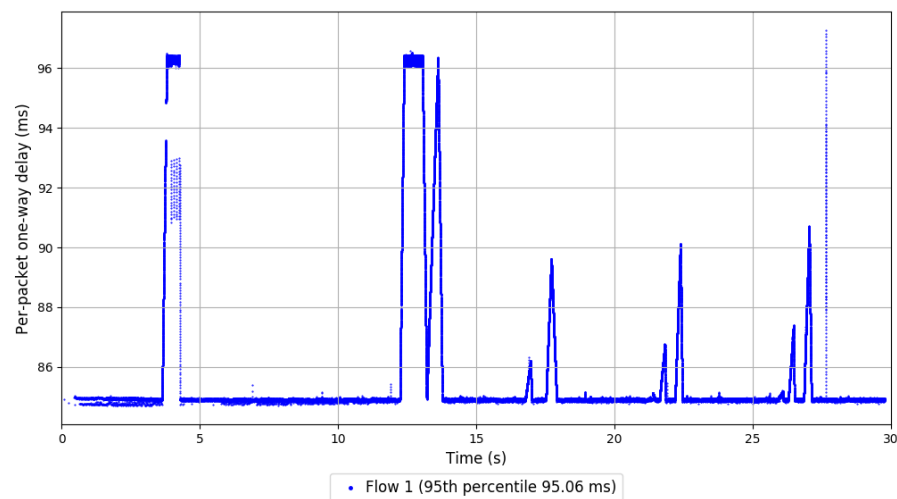
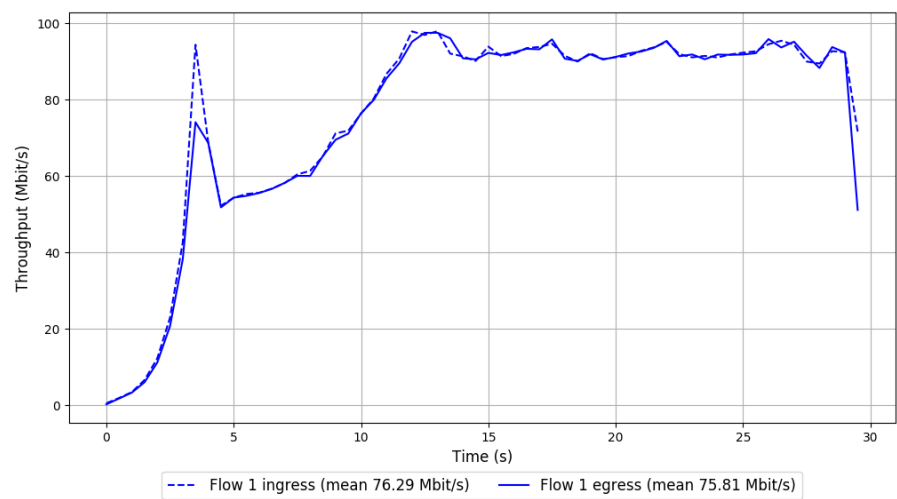
-- Flow 1:

Average throughput: 75.81 Mbit/s

95th percentile per-packet one-way delay: 95.061 ms

Loss rate: 1.24%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-03-27 02:00:05

End at: 2018-03-27 02:00:35

Local clock offset: -4.236 ms

Remote clock offset: 6.359 ms

Below is generated by plot.py at 2018-03-27 08:20:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.73 Mbit/s

95th percentile per-packet one-way delay: 94.786 ms

Loss rate: 0.79%

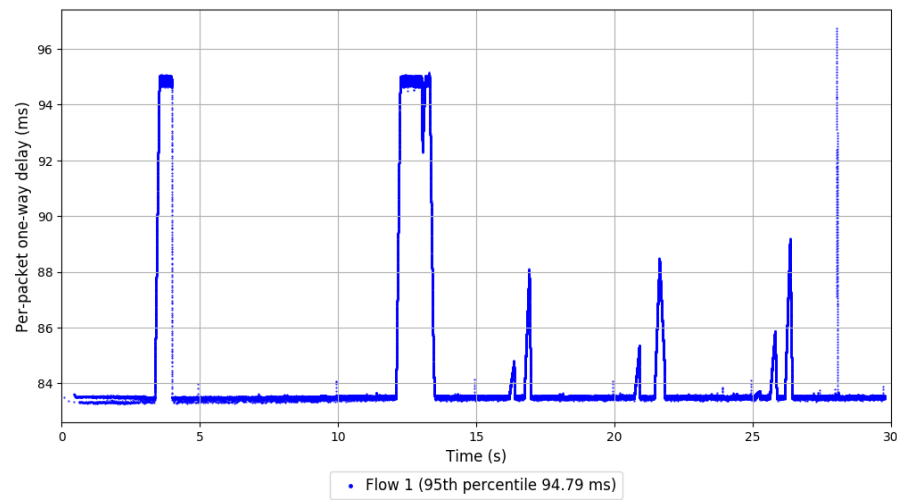
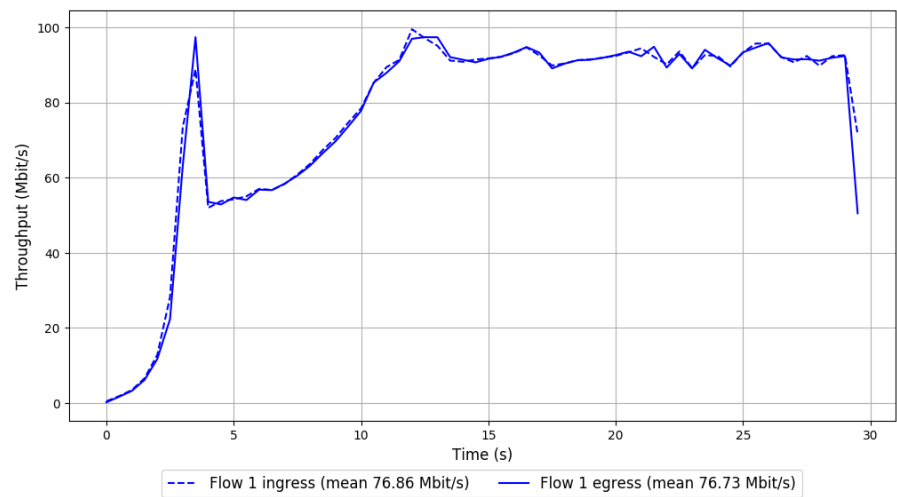
-- Flow 1:

Average throughput: 76.73 Mbit/s

95th percentile per-packet one-way delay: 94.786 ms

Loss rate: 0.79%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-03-27 02:22:20

End at: 2018-03-27 02:22:50

Local clock offset: -4.284 ms

Remote clock offset: 8.577 ms

Below is generated by plot.py at 2018-03-27 08:20:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.09 Mbit/s

95th percentile per-packet one-way delay: 88.089 ms

Loss rate: 0.75%

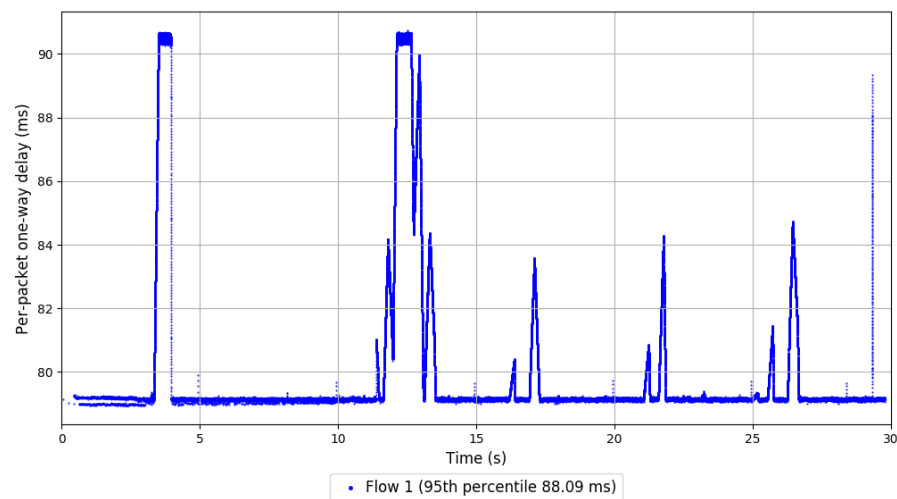
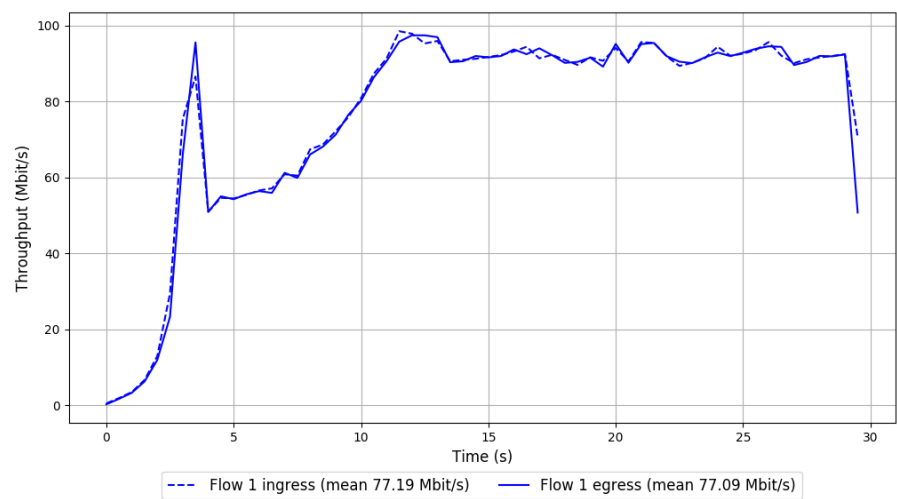
-- Flow 1:

Average throughput: 77.09 Mbit/s

95th percentile per-packet one-way delay: 88.089 ms

Loss rate: 0.75%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-03-27 02:44:33

End at: 2018-03-27 02:45:03

Local clock offset: -5.287 ms

Remote clock offset: 8.559 ms

Below is generated by plot.py at 2018-03-27 08:20:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.57 Mbit/s

95th percentile per-packet one-way delay: 92.394 ms

Loss rate: 0.75%

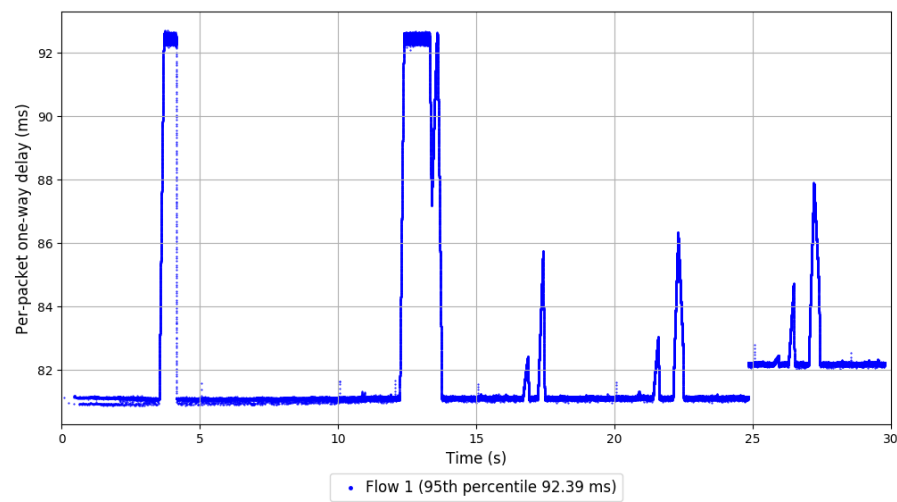
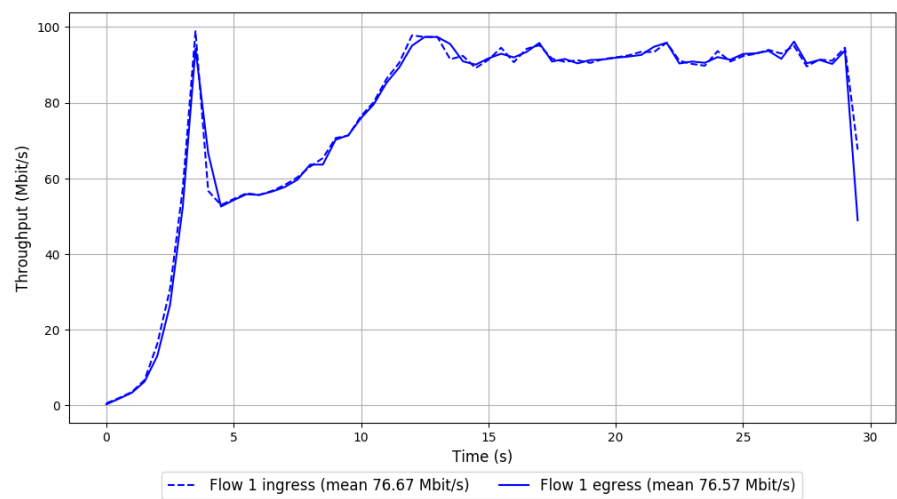
-- Flow 1:

Average throughput: 76.57 Mbit/s

95th percentile per-packet one-way delay: 92.394 ms

Loss rate: 0.75%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-03-27 03:07:05

End at: 2018-03-27 03:07:35

Local clock offset: -5.874 ms

Remote clock offset: 3.215 ms

Below is generated by plot.py at 2018-03-27 08:20:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.32 Mbit/s

95th percentile per-packet one-way delay: 86.083 ms

Loss rate: 1.86%

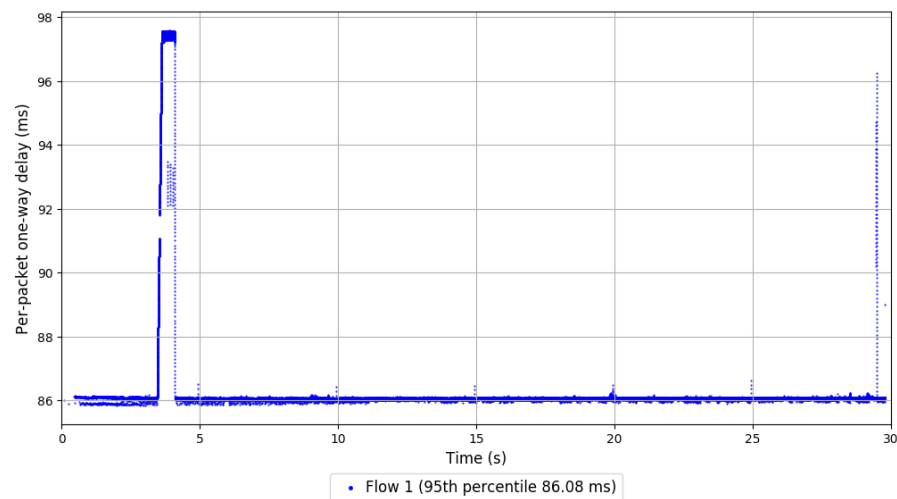
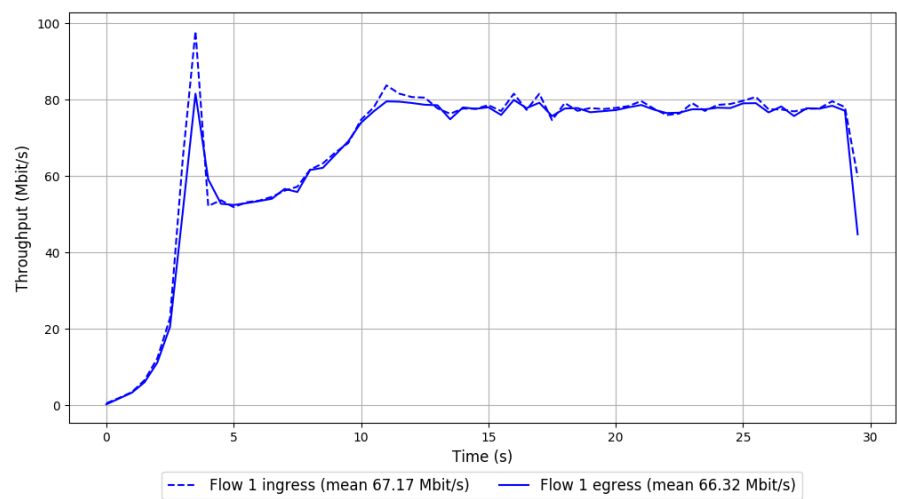
-- Flow 1:

Average throughput: 66.32 Mbit/s

95th percentile per-packet one-way delay: 86.083 ms

Loss rate: 1.86%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-03-27 03:29:26

End at: 2018-03-27 03:29:56

Local clock offset: -6.366 ms

Remote clock offset: 8.625 ms

Below is generated by plot.py at 2018-03-27 08:20:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.75 Mbit/s

95th percentile per-packet one-way delay: 93.565 ms

Loss rate: 0.79%

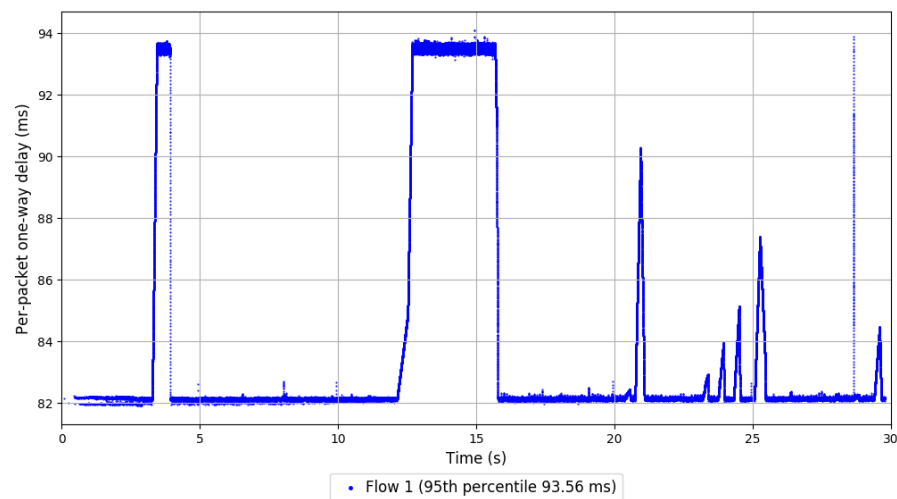
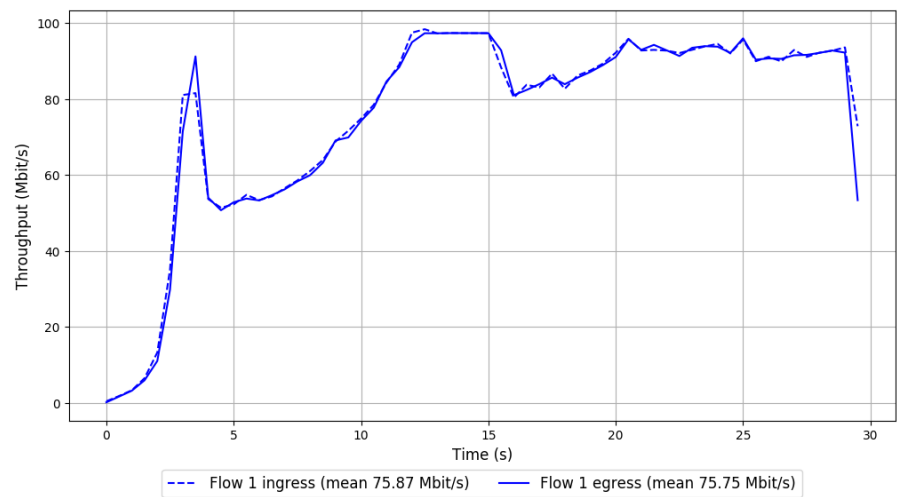
-- Flow 1:

Average throughput: 75.75 Mbit/s

95th percentile per-packet one-way delay: 93.565 ms

Loss rate: 0.79%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-03-27 03:51:41

End at: 2018-03-27 03:52:11

Local clock offset: -5.052 ms

Remote clock offset: 2.848 ms

Below is generated by plot.py at 2018-03-27 08:20:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.06 Mbit/s

95th percentile per-packet one-way delay: 96.151 ms

Loss rate: 0.70%

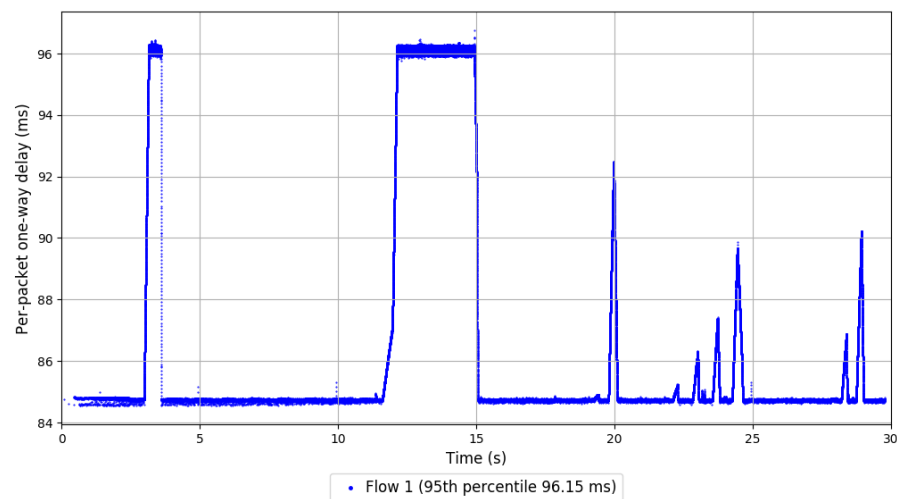
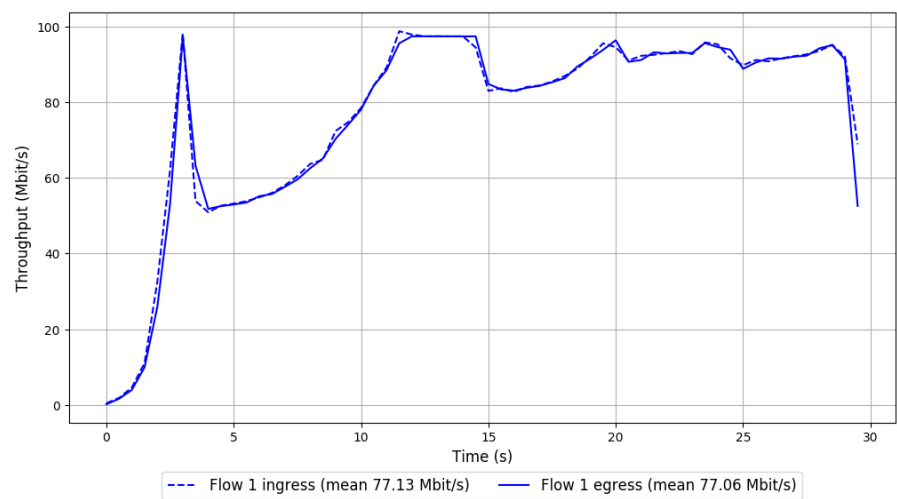
-- Flow 1:

Average throughput: 77.06 Mbit/s

95th percentile per-packet one-way delay: 96.151 ms

Loss rate: 0.70%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-03-27 04:13:54

End at: 2018-03-27 04:14:24

Local clock offset: -5.06 ms

Remote clock offset: 7.81 ms

Below is generated by plot.py at 2018-03-27 08:20:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.42 Mbit/s

95th percentile per-packet one-way delay: 93.638 ms

Loss rate: 0.78%

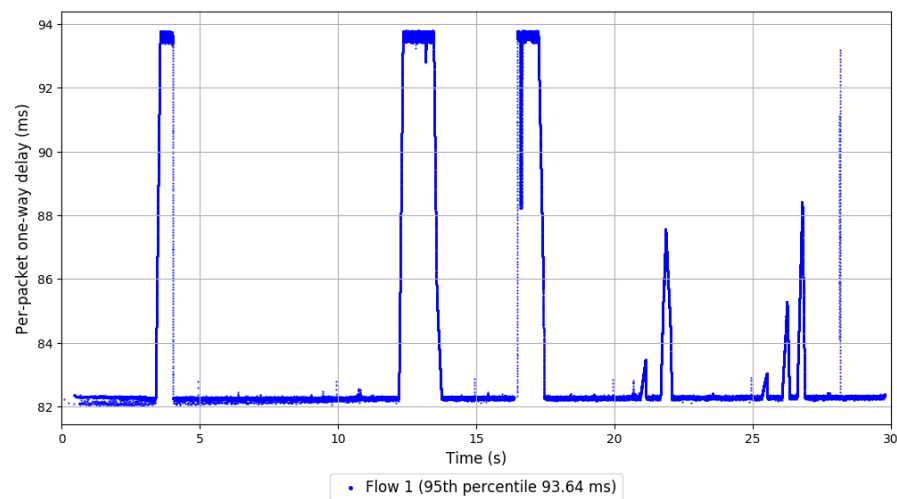
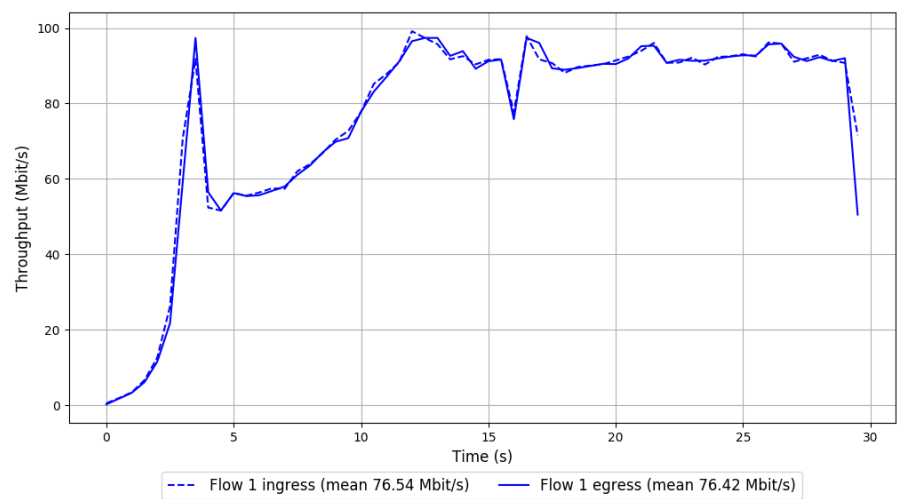
-- Flow 1:

Average throughput: 76.42 Mbit/s

95th percentile per-packet one-way delay: 93.638 ms

Loss rate: 0.78%

Run 10: Report of Vivace-latency — Data Link

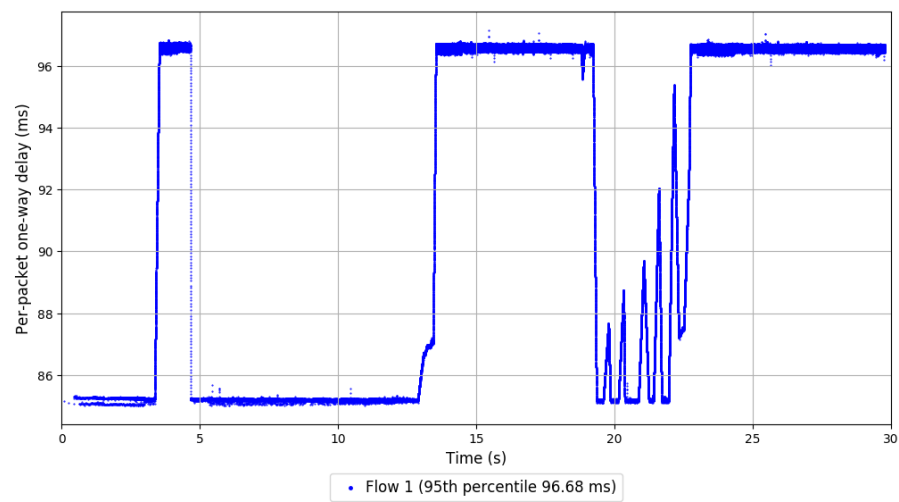
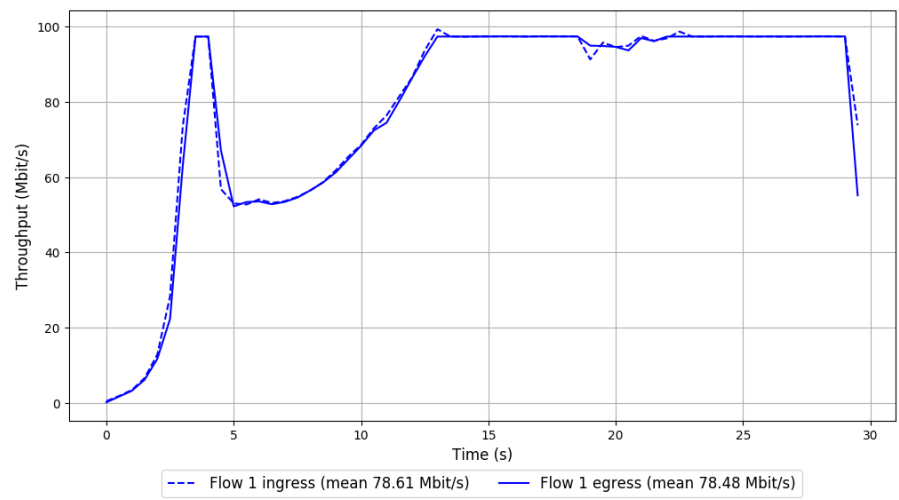


```
Run 1: Statistics of Vivace-loss

Start at: 2018-03-27 00:35:59
End at: 2018-03-27 00:36:29
Local clock offset: -0.543 ms
Remote clock offset: 3.357 ms

# Below is generated by plot.py at 2018-03-27 08:21:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.48 Mbit/s
95th percentile per-packet one-way delay: 96.677 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 78.48 Mbit/s
95th percentile per-packet one-way delay: 96.677 ms
Loss rate: 0.80%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-03-27 00:58:20

End at: 2018-03-27 00:58:50

Local clock offset: -3.093 ms

Remote clock offset: 9.278 ms

Below is generated by plot.py at 2018-03-27 08:21:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.60 Mbit/s

95th percentile per-packet one-way delay: 90.754 ms

Loss rate: 0.79%

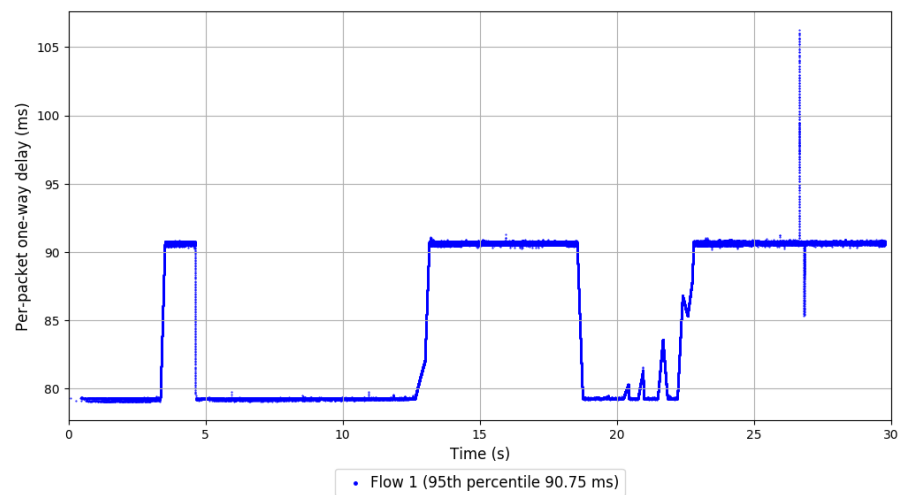
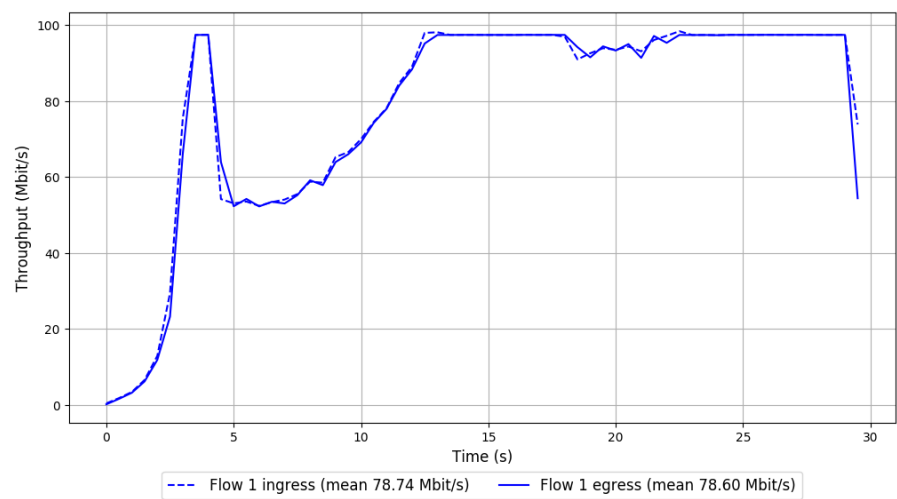
-- Flow 1:

Average throughput: 78.60 Mbit/s

95th percentile per-packet one-way delay: 90.754 ms

Loss rate: 0.79%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-03-27 01:20:34

End at: 2018-03-27 01:21:04

Local clock offset: -4.317 ms

Remote clock offset: 3.223 ms

Below is generated by plot.py at 2018-03-27 08:21:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.25 Mbit/s

95th percentile per-packet one-way delay: 85.282 ms

Loss rate: 1.81%

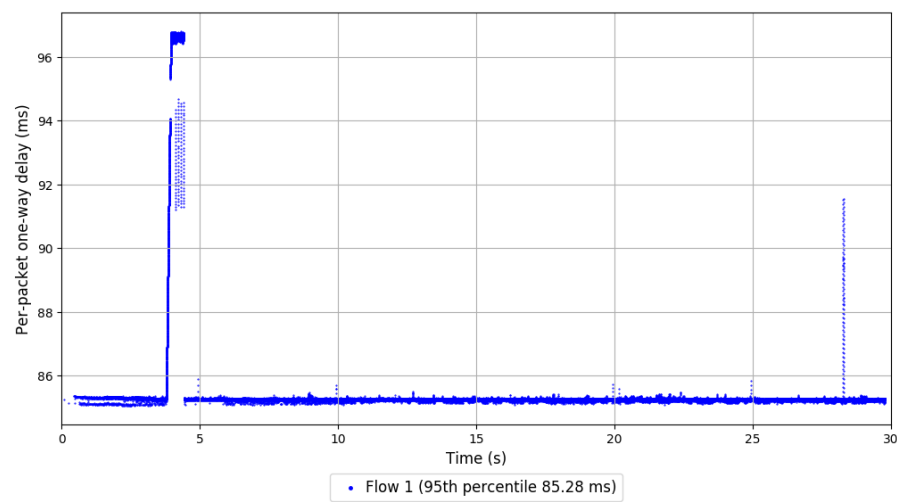
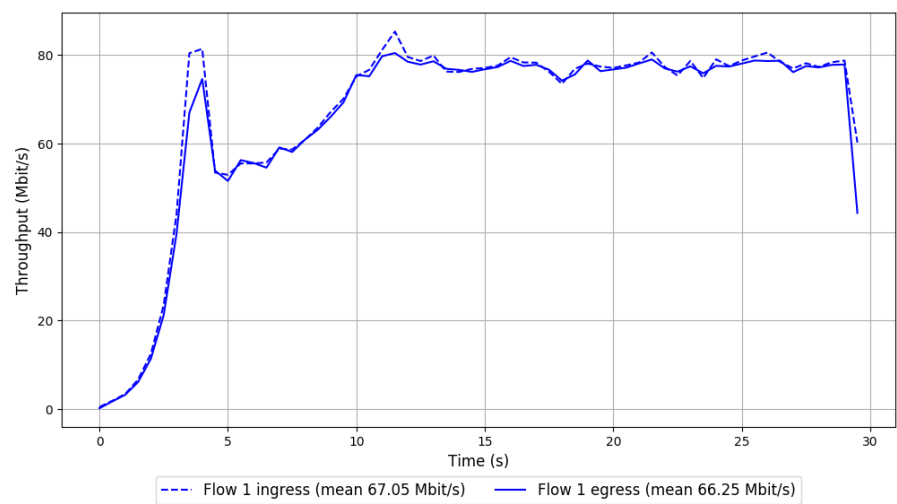
-- Flow 1:

Average throughput: 66.25 Mbit/s

95th percentile per-packet one-way delay: 85.282 ms

Loss rate: 1.81%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-03-27 01:42:47

End at: 2018-03-27 01:43:17

Local clock offset: -4.215 ms

Remote clock offset: 3.326 ms

Below is generated by plot.py at 2018-03-27 08:21:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.49 Mbit/s

95th percentile per-packet one-way delay: 96.513 ms

Loss rate: 0.80%

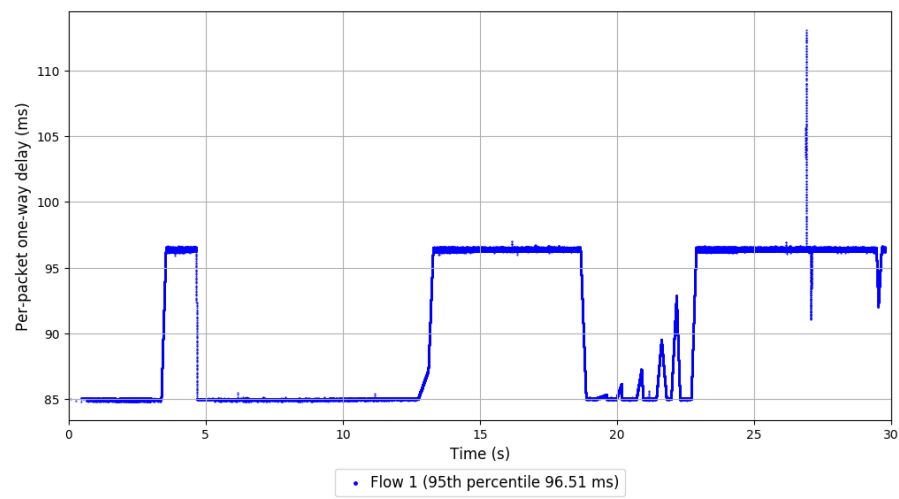
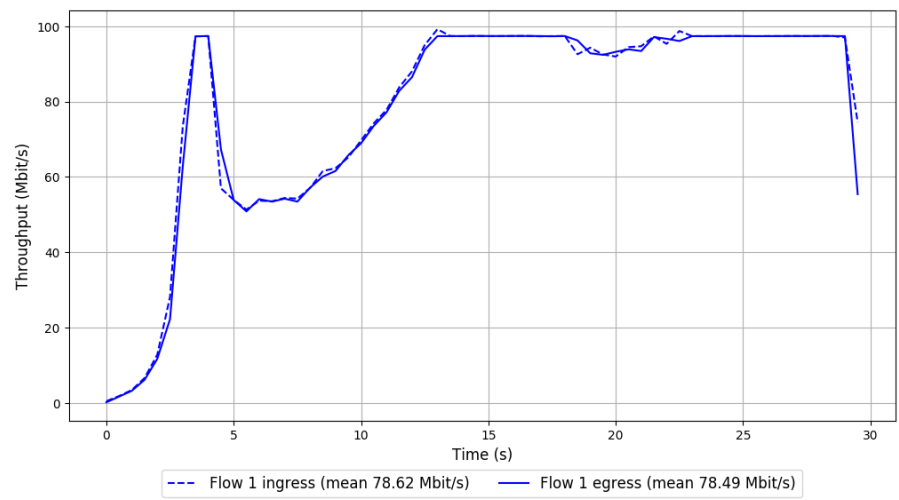
-- Flow 1:

Average throughput: 78.49 Mbit/s

95th percentile per-packet one-way delay: 96.513 ms

Loss rate: 0.80%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-03-27 02:05:02

End at: 2018-03-27 02:05:32

Local clock offset: -4.247 ms

Remote clock offset: 2.769 ms

Below is generated by plot.py at 2018-03-27 08:21:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.80 Mbit/s

95th percentile per-packet one-way delay: 96.716 ms

Loss rate: 0.81%

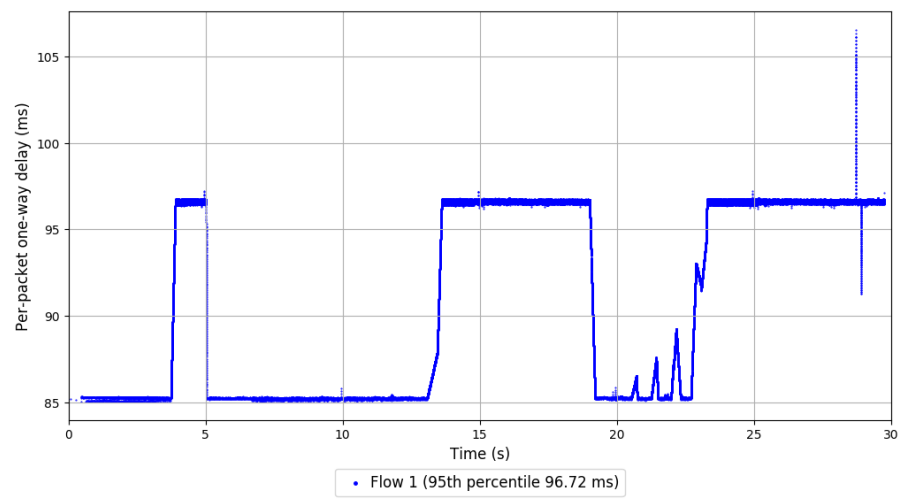
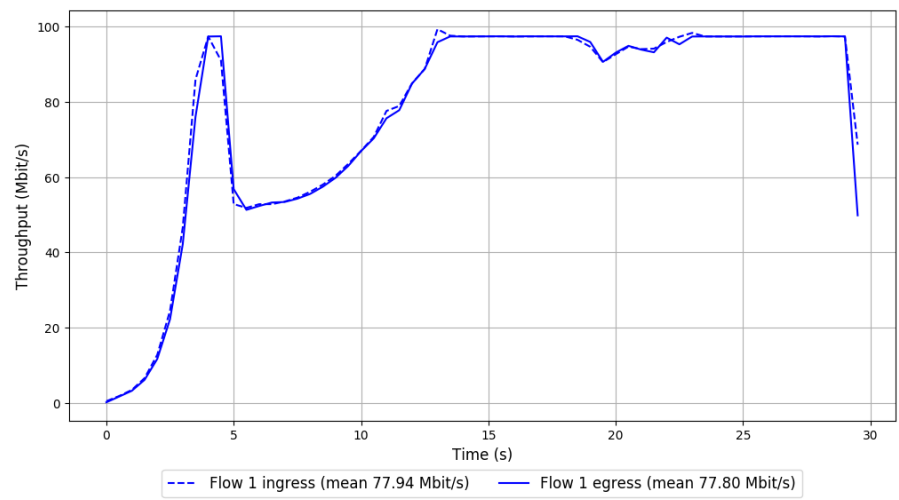
-- Flow 1:

Average throughput: 77.80 Mbit/s

95th percentile per-packet one-way delay: 96.716 ms

Loss rate: 0.81%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-03-27 02:27:17

End at: 2018-03-27 02:27:47

Local clock offset: -4.354 ms

Remote clock offset: 2.573 ms

Below is generated by plot.py at 2018-03-27 08:21:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.32 Mbit/s

95th percentile per-packet one-way delay: 98.559 ms

Loss rate: 0.82%

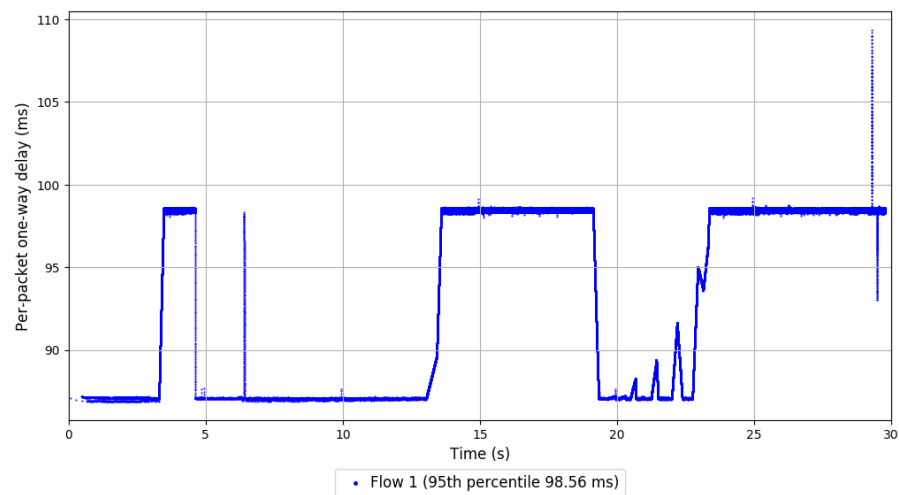
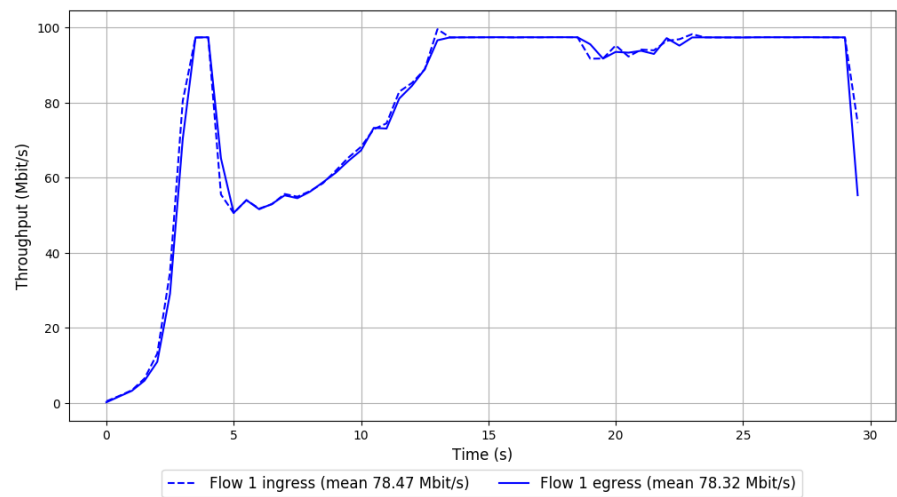
-- Flow 1:

Average throughput: 78.32 Mbit/s

95th percentile per-packet one-way delay: 98.559 ms

Loss rate: 0.82%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-03-27 02:49:29

End at: 2018-03-27 02:49:59

Local clock offset: -5.43 ms

Remote clock offset: 9.102 ms

Below is generated by plot.py at 2018-03-27 08:21:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.35 Mbit/s

95th percentile per-packet one-way delay: 78.796 ms

Loss rate: 2.03%

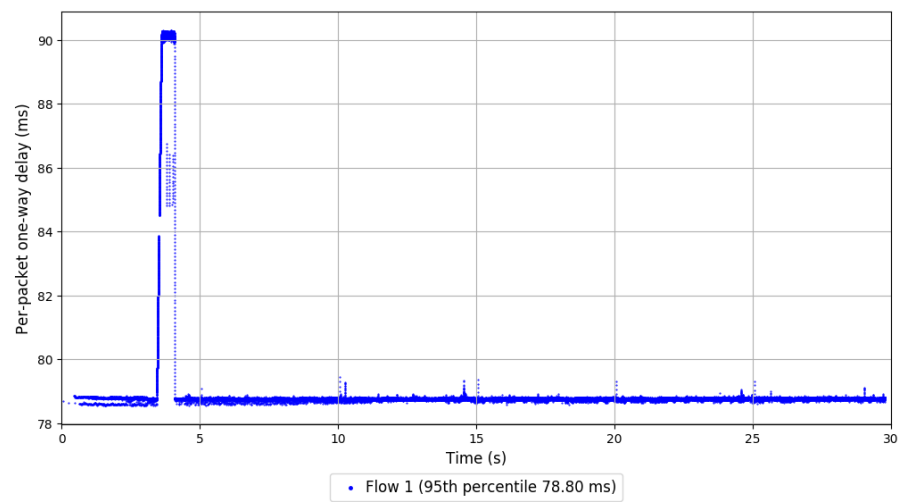
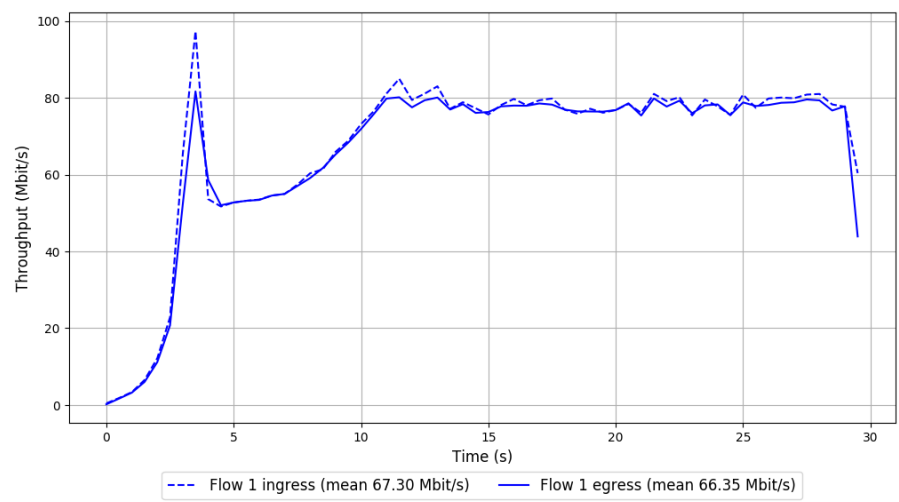
-- Flow 1:

Average throughput: 66.35 Mbit/s

95th percentile per-packet one-way delay: 78.796 ms

Loss rate: 2.03%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-03-27 03:12:02

End at: 2018-03-27 03:12:32

Local clock offset: -6.021 ms

Remote clock offset: 8.623 ms

Below is generated by plot.py at 2018-03-27 08:22:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.36 Mbit/s

95th percentile per-packet one-way delay: 91.816 ms

Loss rate: 0.80%

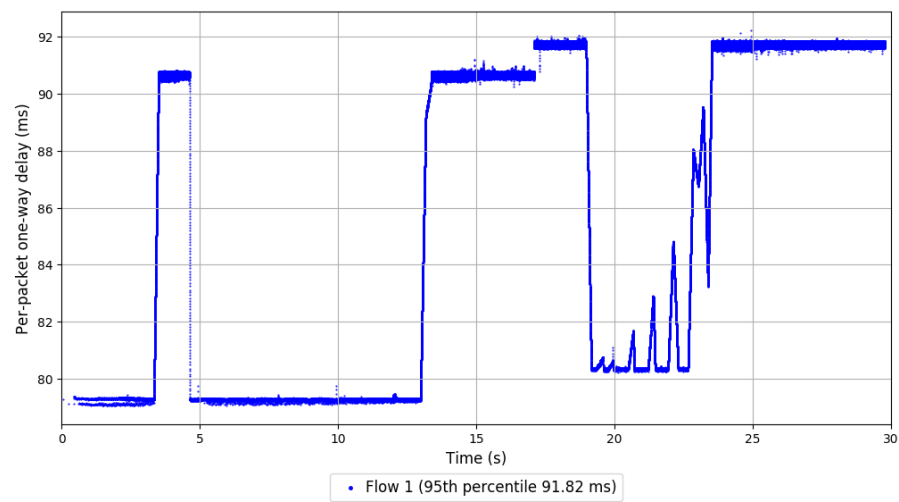
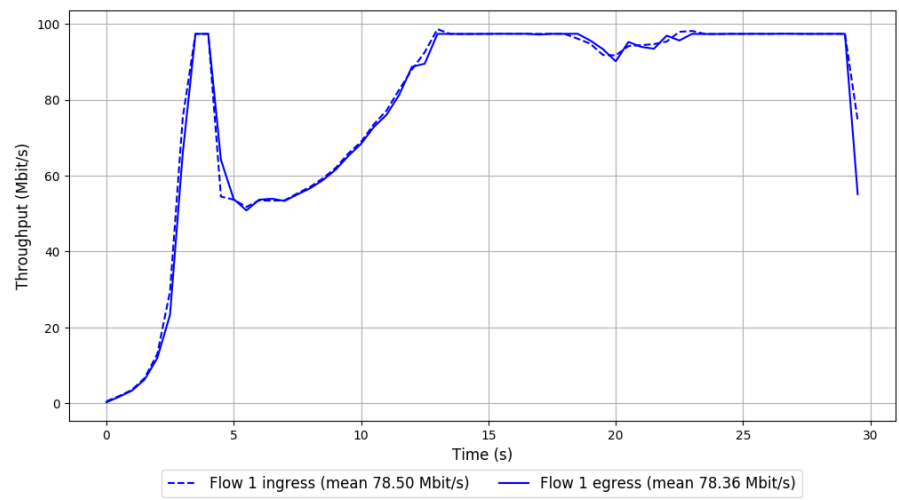
-- Flow 1:

Average throughput: 78.36 Mbit/s

95th percentile per-packet one-way delay: 91.816 ms

Loss rate: 0.80%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-03-27 03:34:23

End at: 2018-03-27 03:34:53

Local clock offset: -6.52 ms

Remote clock offset: 3.249 ms

Below is generated by plot.py at 2018-03-27 08:22:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.43 Mbit/s

95th percentile per-packet one-way delay: 96.902 ms

Loss rate: 0.80%

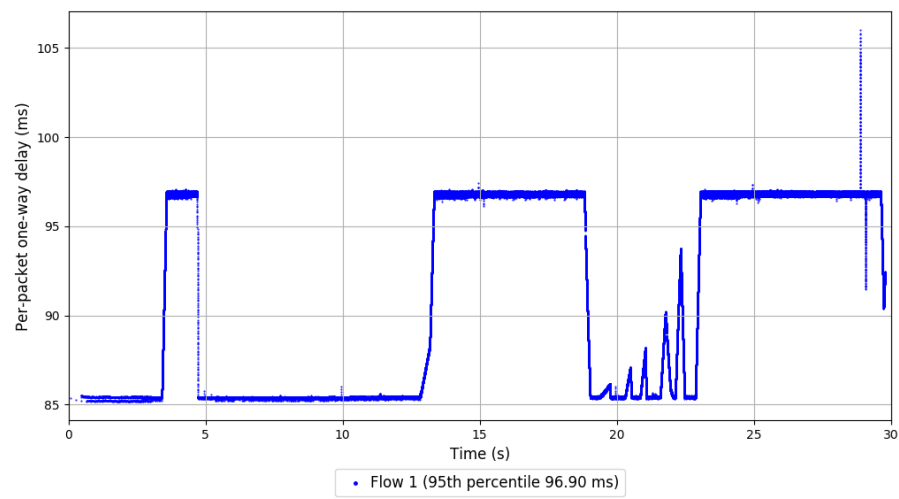
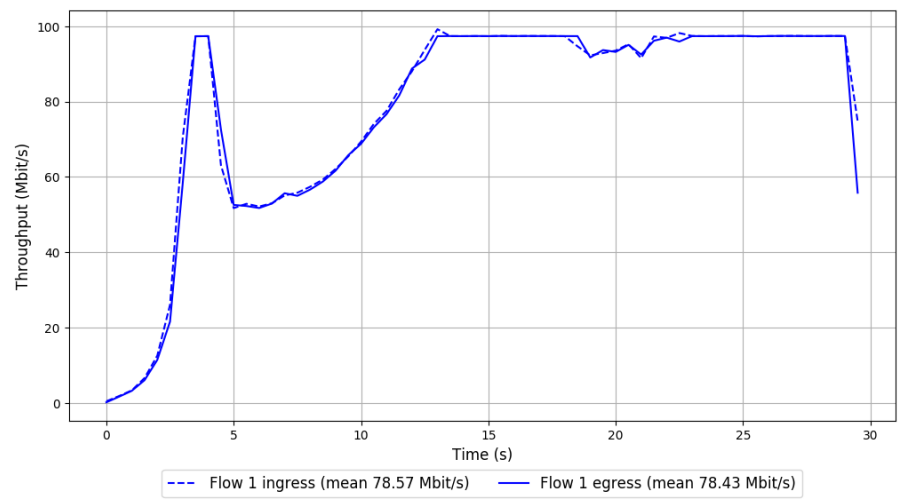
-- Flow 1:

Average throughput: 78.43 Mbit/s

95th percentile per-packet one-way delay: 96.902 ms

Loss rate: 0.80%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-03-27 03:56:38

End at: 2018-03-27 03:57:08

Local clock offset: -4.839 ms

Remote clock offset: 2.786 ms

Below is generated by plot.py at 2018-03-27 08:22:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.71 Mbit/s

95th percentile per-packet one-way delay: 98.548 ms

Loss rate: 0.81%

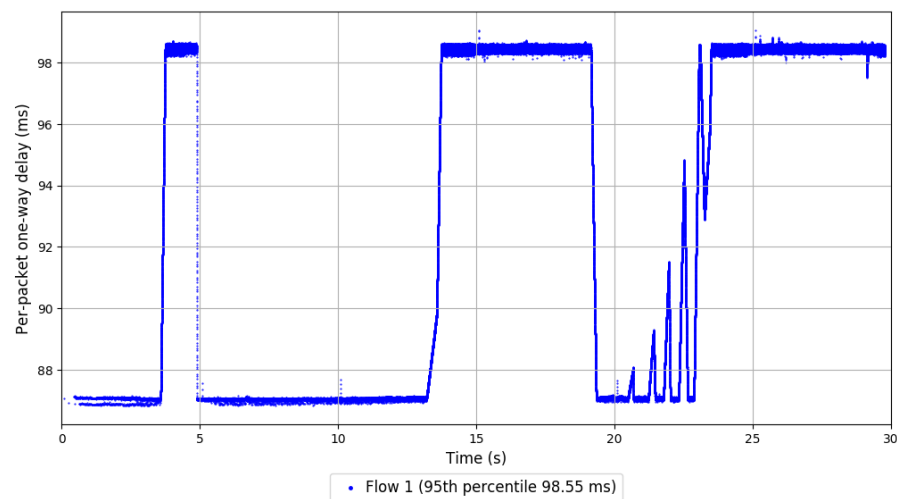
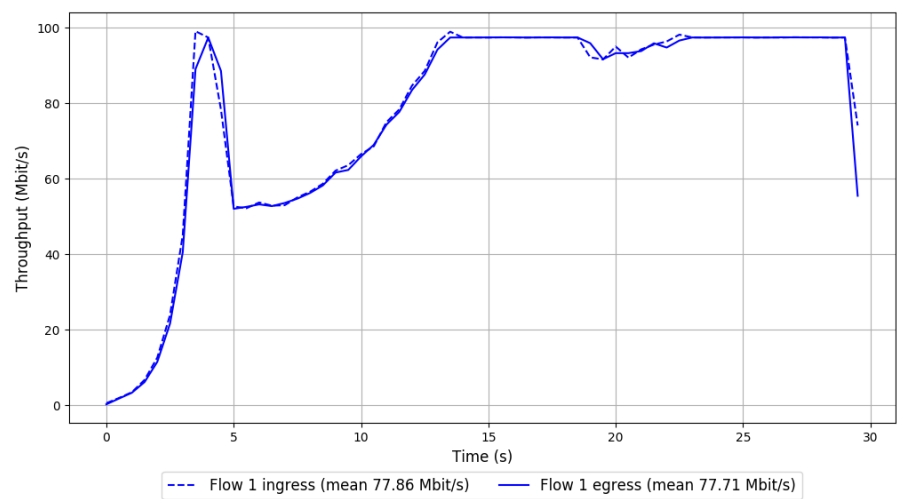
-- Flow 1:

Average throughput: 77.71 Mbit/s

95th percentile per-packet one-way delay: 98.548 ms

Loss rate: 0.81%

Run 10: Report of Vivace-loss — Data Link



Run 1: Statistics of Vivace-LTE

Start at: 2018-03-27 00:50:44

End at: 2018-03-27 00:51:14

Local clock offset: -1.585 ms

Remote clock offset: 3.258 ms

Below is generated by plot.py at 2018-03-27 08:22:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.16 Mbit/s

95th percentile per-packet one-way delay: 87.381 ms

Loss rate: 1.88%

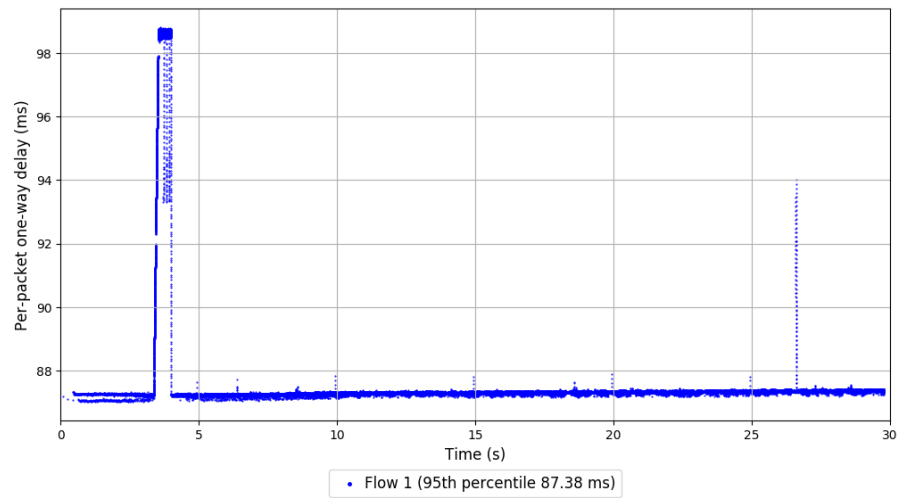
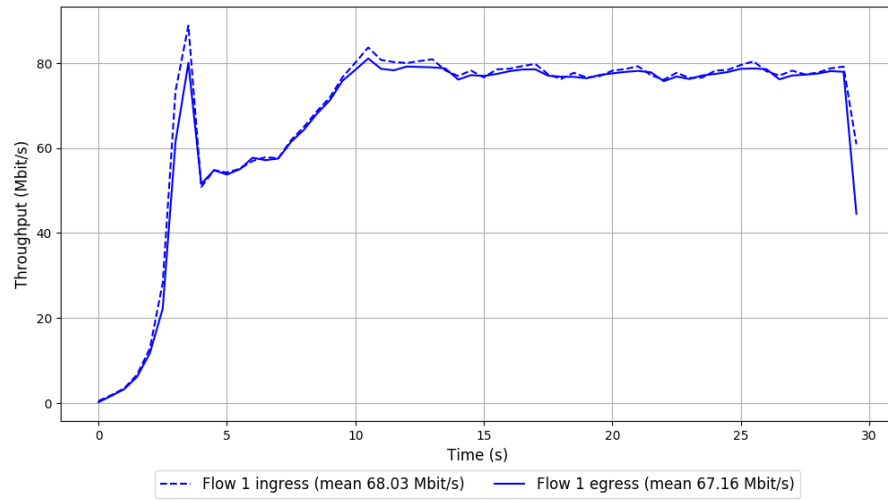
-- Flow 1:

Average throughput: 67.16 Mbit/s

95th percentile per-packet one-way delay: 87.381 ms

Loss rate: 1.88%

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-03-27 01:13:05

End at: 2018-03-27 01:13:35

Local clock offset: -4.108 ms

Remote clock offset: 3.441 ms

Below is generated by plot.py at 2018-03-27 08:23:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.52 Mbit/s

95th percentile per-packet one-way delay: 98.462 ms

Loss rate: 0.75%

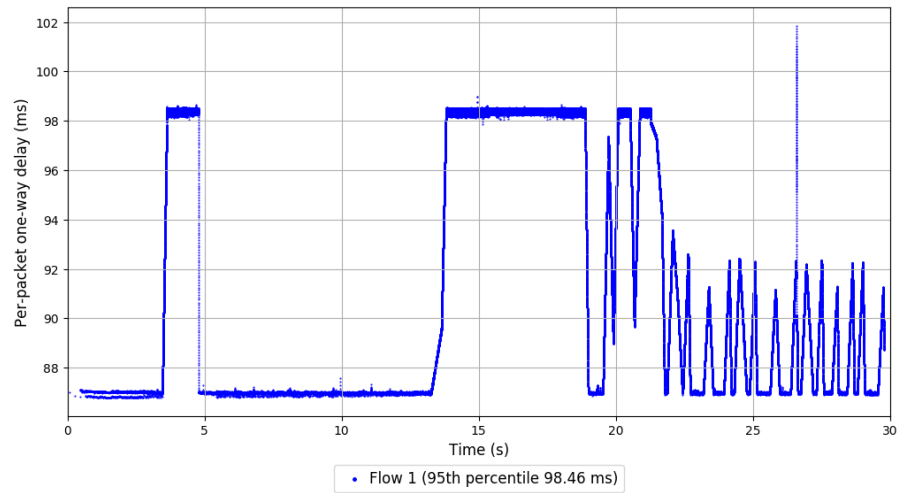
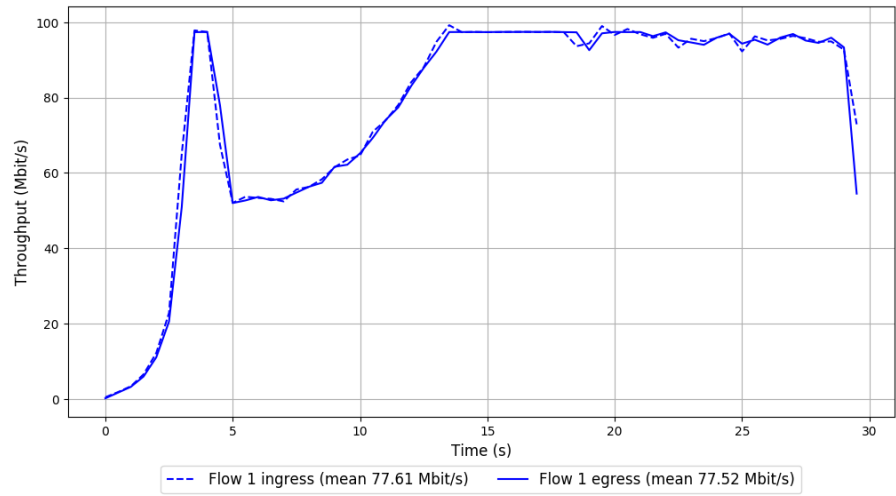
-- Flow 1:

Average throughput: 77.52 Mbit/s

95th percentile per-packet one-way delay: 98.462 ms

Loss rate: 0.75%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-03-27 01:35:17

End at: 2018-03-27 01:35:47

Local clock offset: -4.263 ms

Remote clock offset: 9.118 ms

Below is generated by plot.py at 2018-03-27 08:23:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.00 Mbit/s

95th percentile per-packet one-way delay: 92.324 ms

Loss rate: 1.38%

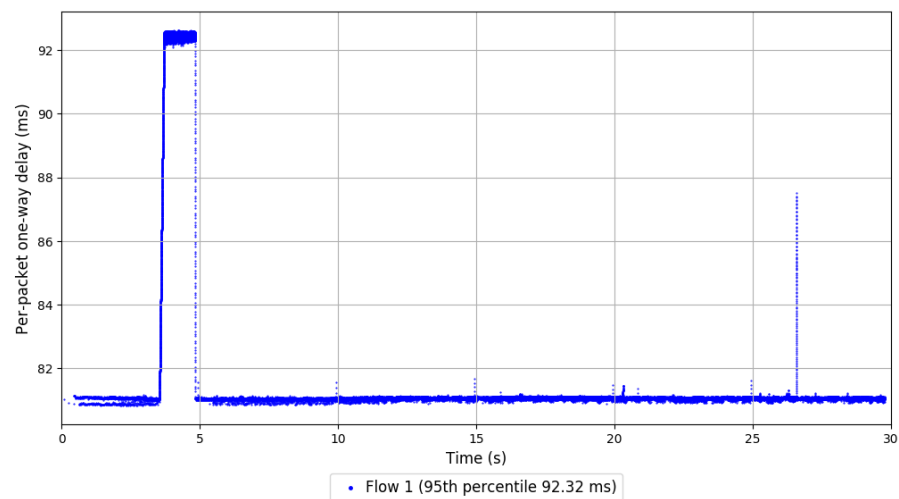
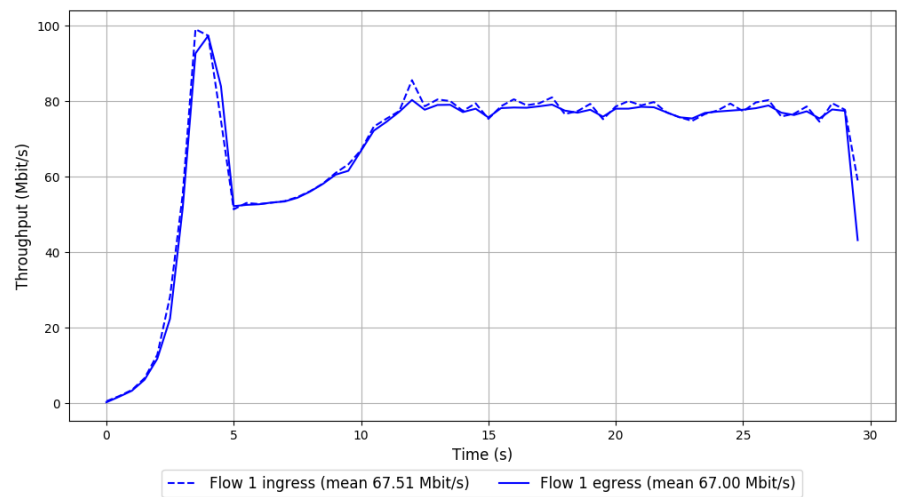
-- Flow 1:

Average throughput: 67.00 Mbit/s

95th percentile per-packet one-way delay: 92.324 ms

Loss rate: 1.38%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-03-27 01:57:33

End at: 2018-03-27 01:58:03

Local clock offset: -4.251 ms

Remote clock offset: 2.836 ms

Below is generated by plot.py at 2018-03-27 08:23:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.43 Mbit/s

95th percentile per-packet one-way delay: 96.507 ms

Loss rate: 0.77%

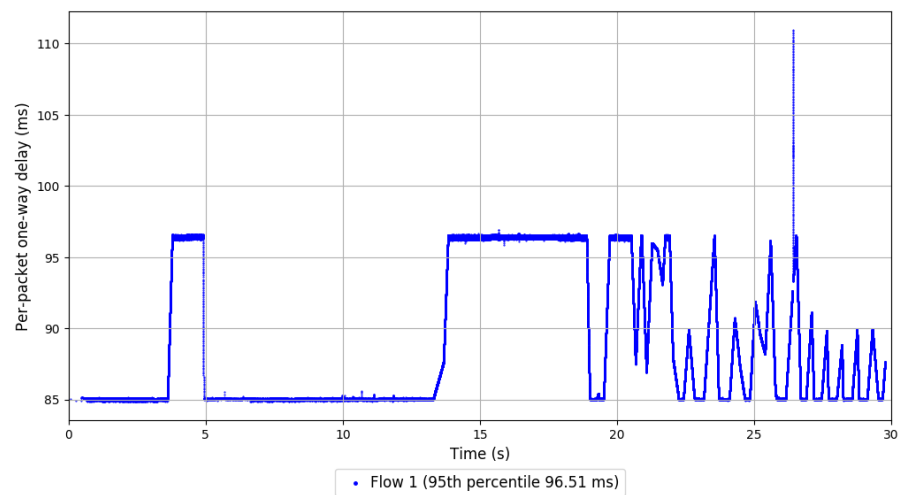
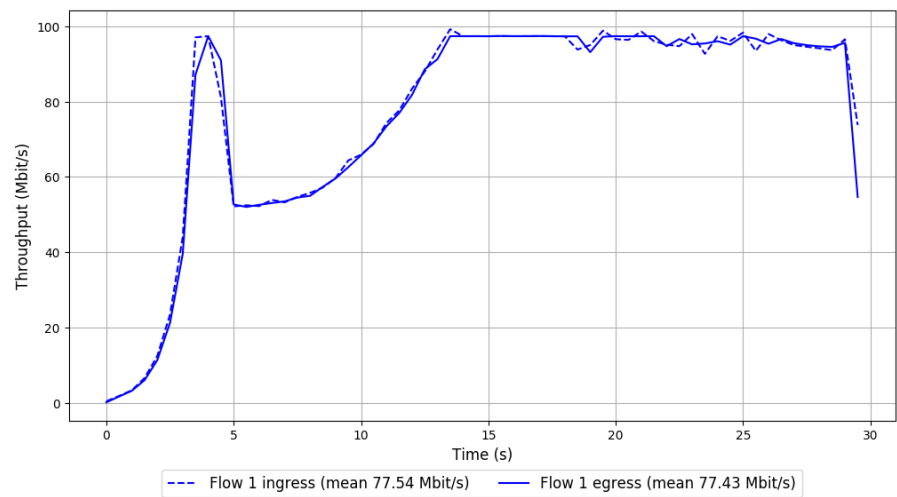
-- Flow 1:

Average throughput: 77.43 Mbit/s

95th percentile per-packet one-way delay: 96.507 ms

Loss rate: 0.77%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-03-27 02:19:47

End at: 2018-03-27 02:20:17

Local clock offset: -4.329 ms

Remote clock offset: 2.725 ms

Below is generated by plot.py at 2018-03-27 08:23:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.94 Mbit/s

95th percentile per-packet one-way delay: 96.594 ms

Loss rate: 0.77%

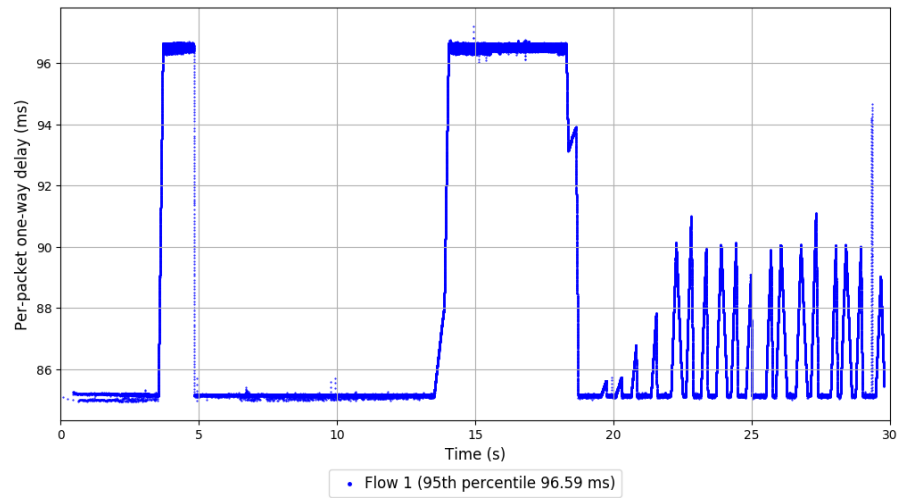
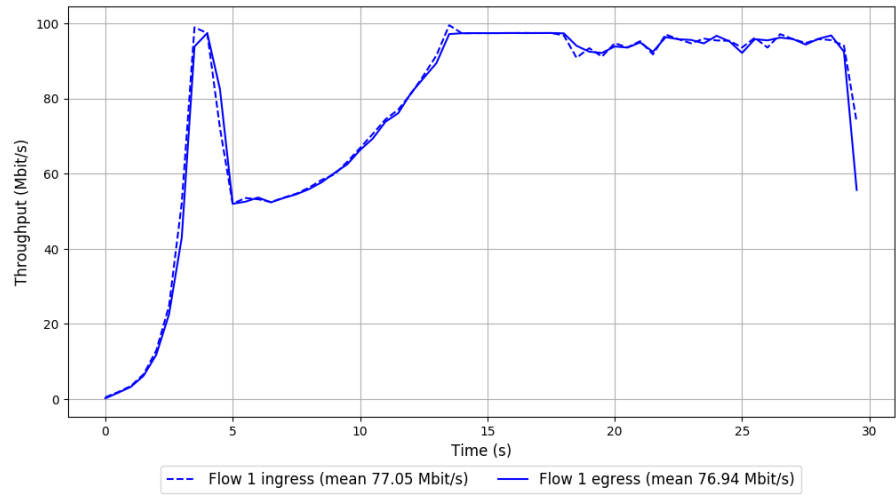
-- Flow 1:

Average throughput: 76.94 Mbit/s

95th percentile per-packet one-way delay: 96.594 ms

Loss rate: 0.77%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-03-27 02:42:01

End at: 2018-03-27 02:42:31

Local clock offset: -5.208 ms

Remote clock offset: 8.614 ms

Below is generated by plot.py at 2018-03-27 08:23:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.22 Mbit/s

95th percentile per-packet one-way delay: 90.315 ms

Loss rate: 0.78%

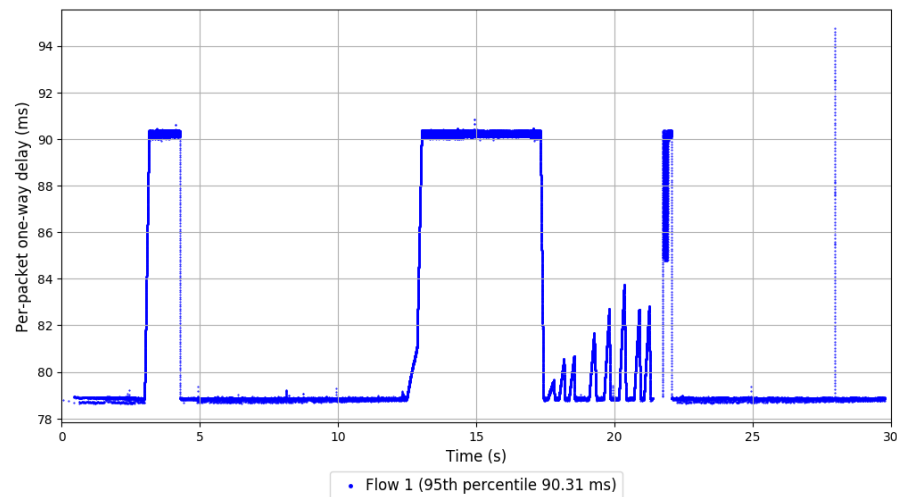
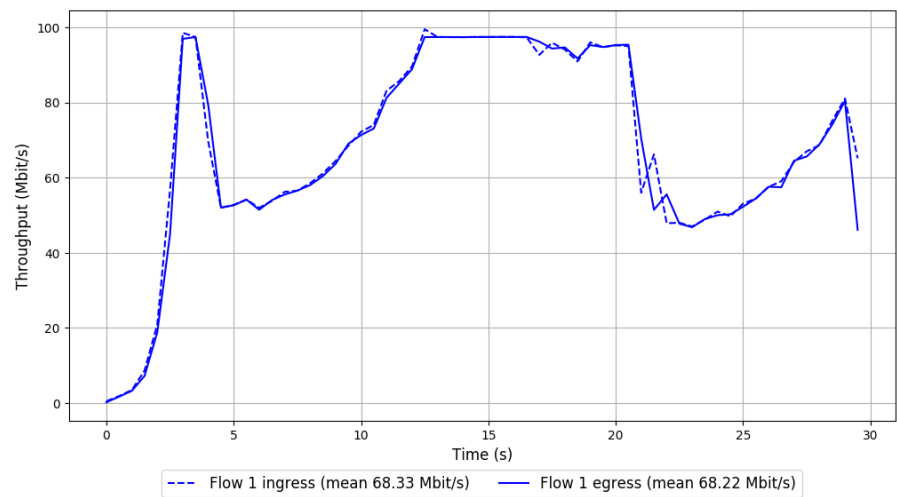
-- Flow 1:

Average throughput: 68.22 Mbit/s

95th percentile per-packet one-way delay: 90.315 ms

Loss rate: 0.78%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-03-27 03:04:32

End at: 2018-03-27 03:05:02

Local clock offset: -5.772 ms

Remote clock offset: 3.068 ms

Below is generated by plot.py at 2018-03-27 08:23:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.25 Mbit/s

95th percentile per-packet one-way delay: 98.097 ms

Loss rate: 0.76%

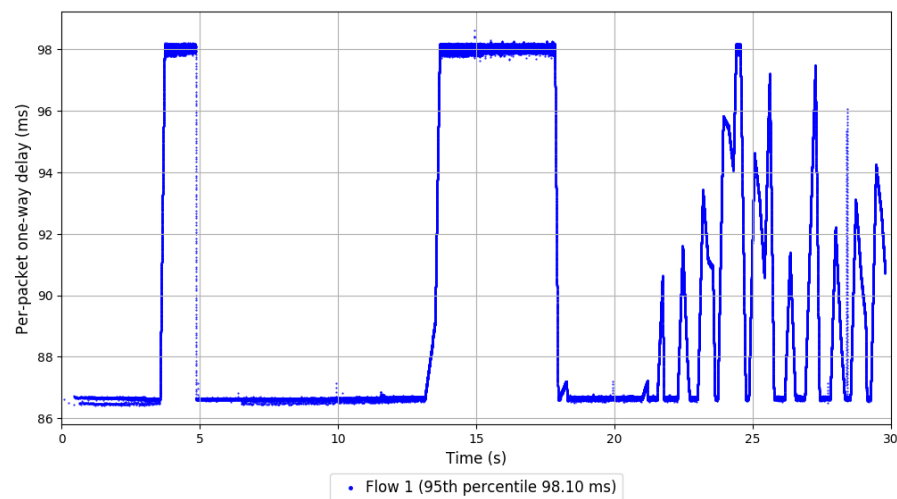
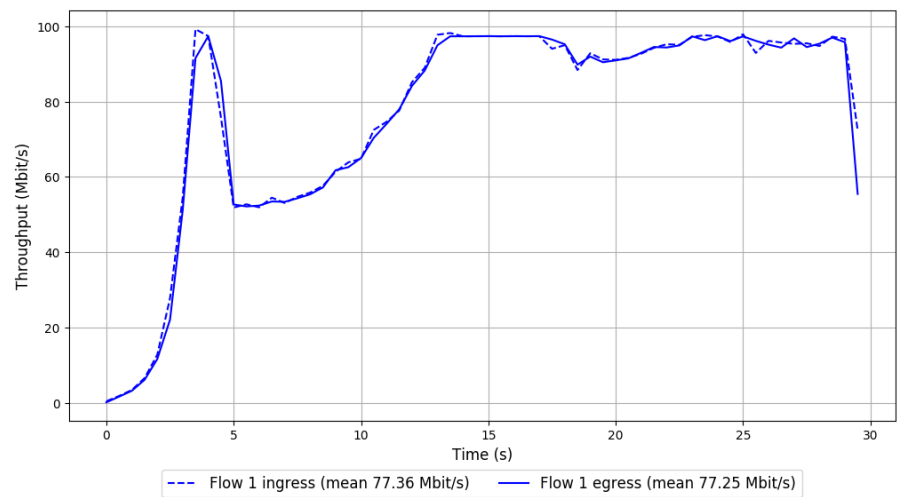
-- Flow 1:

Average throughput: 77.25 Mbit/s

95th percentile per-packet one-way delay: 98.097 ms

Loss rate: 0.76%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-03-27 03:26:52

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

Local clock offset: -6.328 ms

Remote clock offset: 8.445 ms

Below is generated by plot.py at 2018-03-27 08:23:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.04 Mbit/s

95th percentile per-packet one-way delay: 92.691 ms

Loss rate: 0.76%

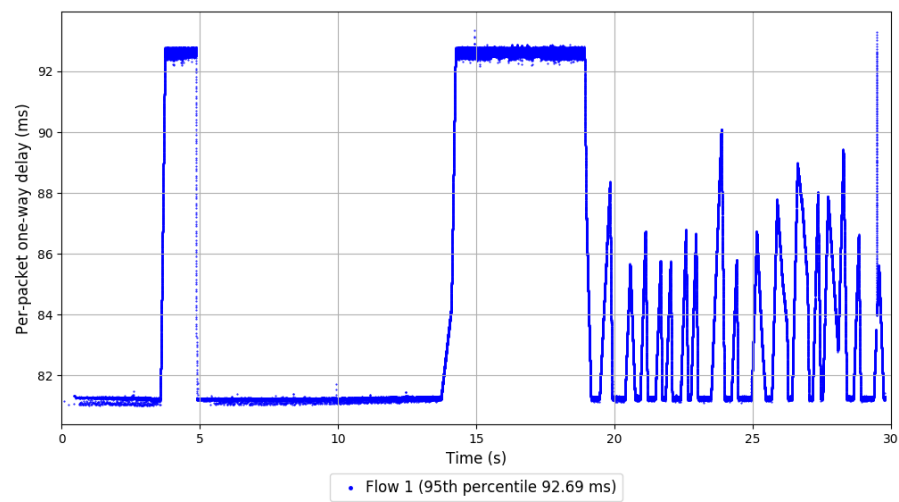
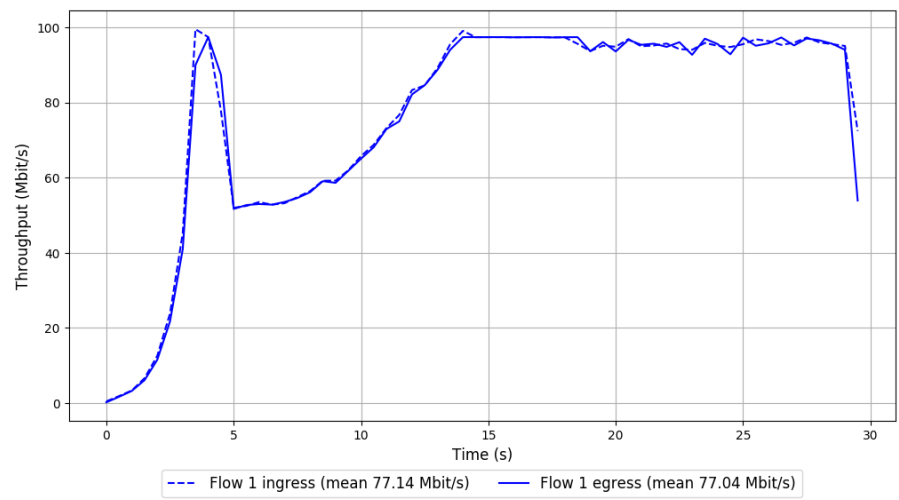
-- Flow 1:

Average throughput: 77.04 Mbit/s

95th percentile per-packet one-way delay: 92.691 ms

Loss rate: 0.76%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-03-27 03:49:09

End at: 2018-03-27 03:49:39

Local clock offset: -5.178 ms

Remote clock offset: 8.145 ms

Below is generated by plot.py at 2018-03-27 08:23:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.03 Mbit/s

95th percentile per-packet one-way delay: 91.293 ms

Loss rate: 0.77%

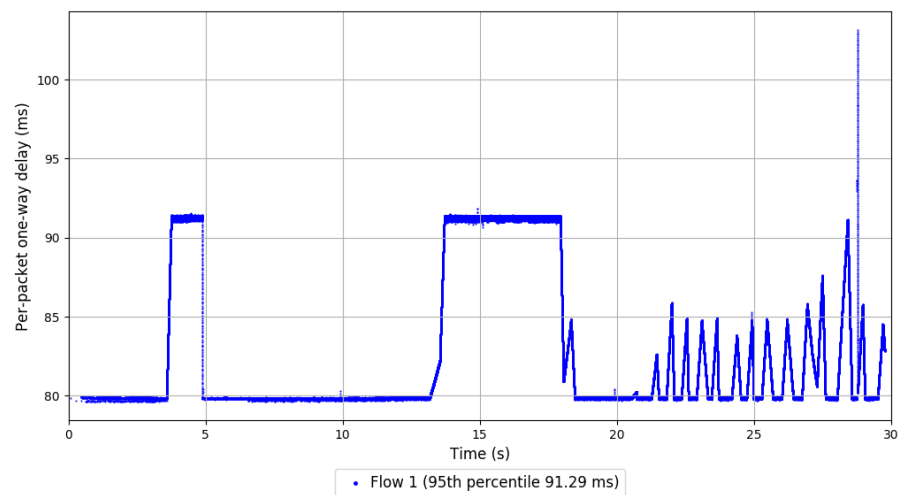
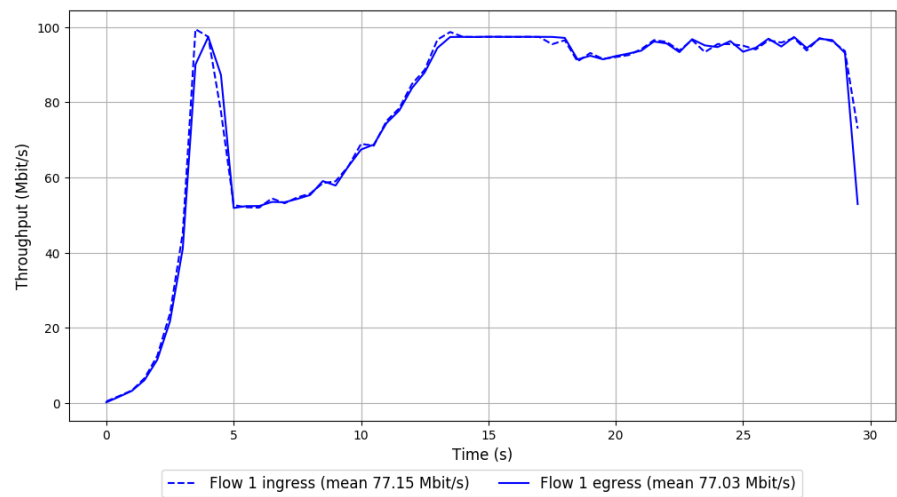
-- Flow 1:

Average throughput: 77.03 Mbit/s

95th percentile per-packet one-way delay: 91.293 ms

Loss rate: 0.77%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-03-27 04:11:22

End at: 2018-03-27 04:11:52

Local clock offset: -4.588 ms

Remote clock offset: 2.483 ms

Below is generated by plot.py at 2018-03-27 08:23:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.27 Mbit/s

95th percentile per-packet one-way delay: 99.105 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 77.27 Mbit/s

95th percentile per-packet one-way delay: 99.105 ms

Loss rate: 0.76%

Run 10: Report of Vivace-LTE — Data Link

