

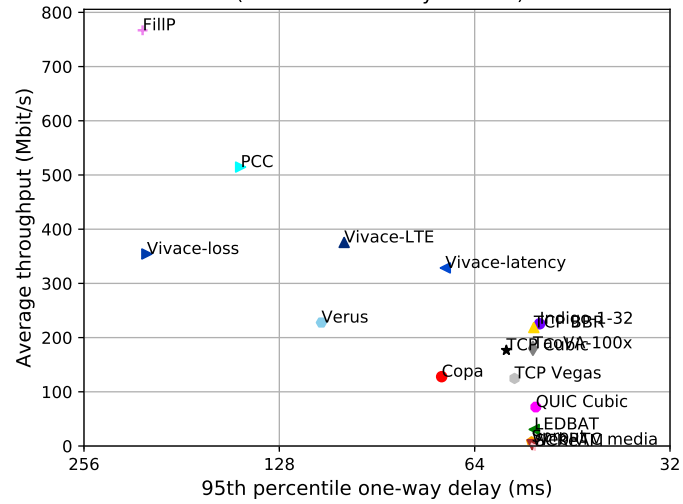
Pantheon Report

Generated at 2018-03-20 19:55:14 (UTC).
Data path: GCE Tokyo Ethernet (*remote*) → GCE Sydney 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**).

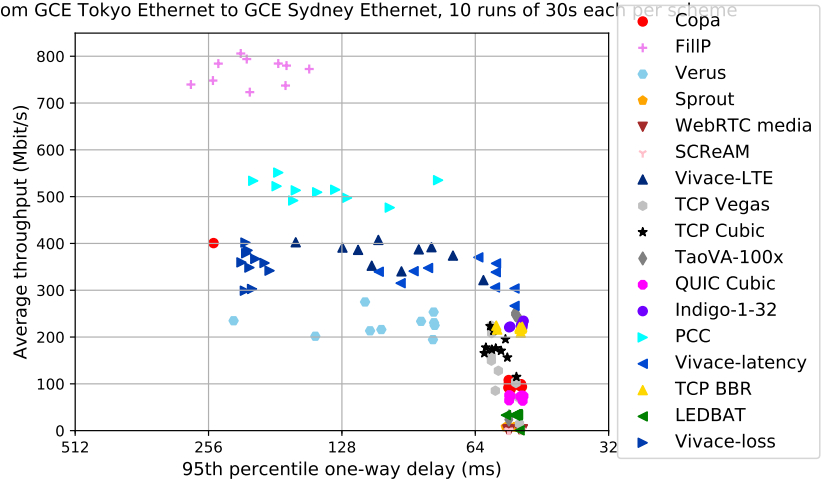
Git summary:

```
branch: master @ f12c42a2c63fdd9a862eefa0468859bf379b6623
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
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 @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	218.57	51.89	0.39
TCP Cubic	10	176.64	57.19	0.38
LEDBAT	10	30.60	51.82	0.64
PCC	10	514.59	146.83	1.29
QUIC Cubic	10	71.91	51.52	0.44
SCReAM	10	0.21	51.71	0.37
WebRTC media	10	2.43	52.19	0.40
Sprout	10	7.88	52.31	0.33
TaoVA-100x	7	180.21	52.05	0.46
TCP Vegas	10	124.70	55.56	0.29
Verus	10	227.78	110.24	0.59
Copa	10	127.91	71.95	3.91
FillP	10	766.94	207.93	11.72
Indigo-1-32	10	225.50	50.83	0.34
Vivace-latency	10	328.53	71.03	0.45
Vivace-loss	10	354.27	204.79	3.46
Vivace-LTE	10	375.58	101.70	0.43

Run 1: Statistics of TCP BBR

Start at: 2018-03-20 13:35:45

End at: 2018-03-20 13:36:15

Below is generated by plot.py at 2018-03-20 18:31:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.03 Mbit/s

95th percentile per-packet one-way delay: 50.846 ms

Loss rate: 0.37%

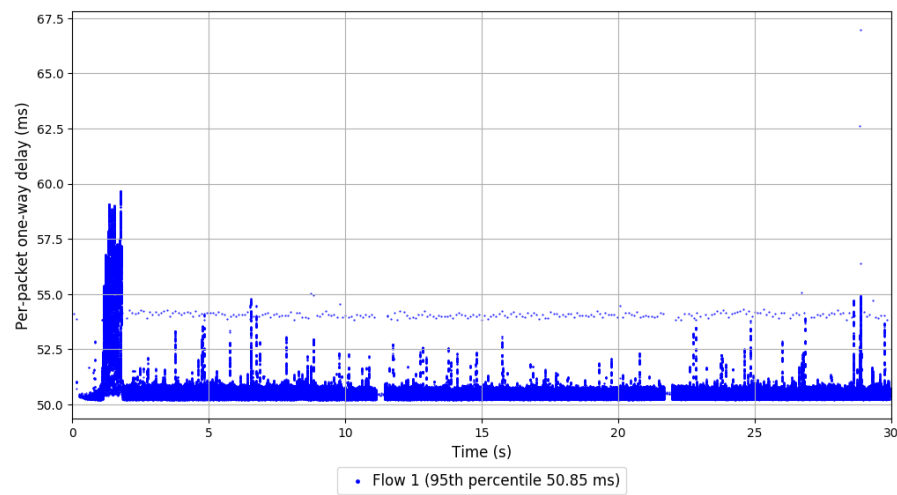
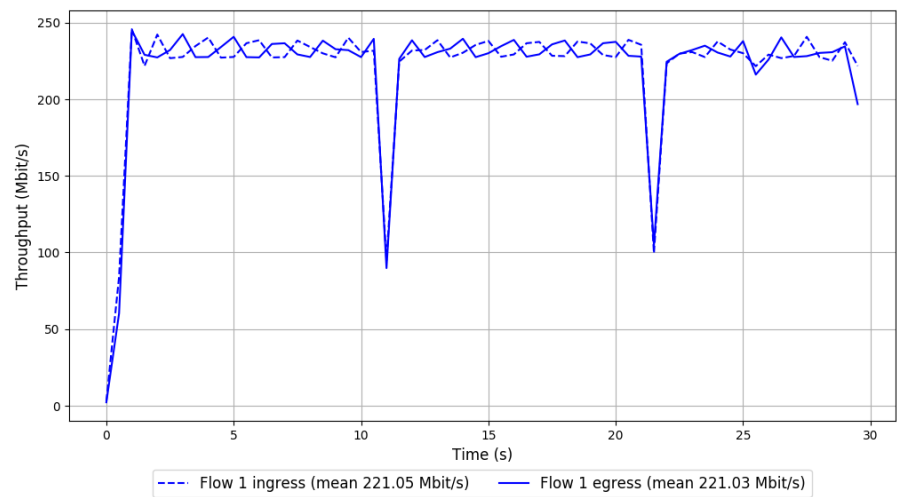
-- Flow 1:

Average throughput: 221.03 Mbit/s

95th percentile per-packet one-way delay: 50.846 ms

Loss rate: 0.37%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-03-20 13:50:08

End at: 2018-03-20 13:50:38

Below is generated by plot.py at 2018-03-20 18:31:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.98 Mbit/s

95th percentile per-packet one-way delay: 50.791 ms

Loss rate: 0.54%

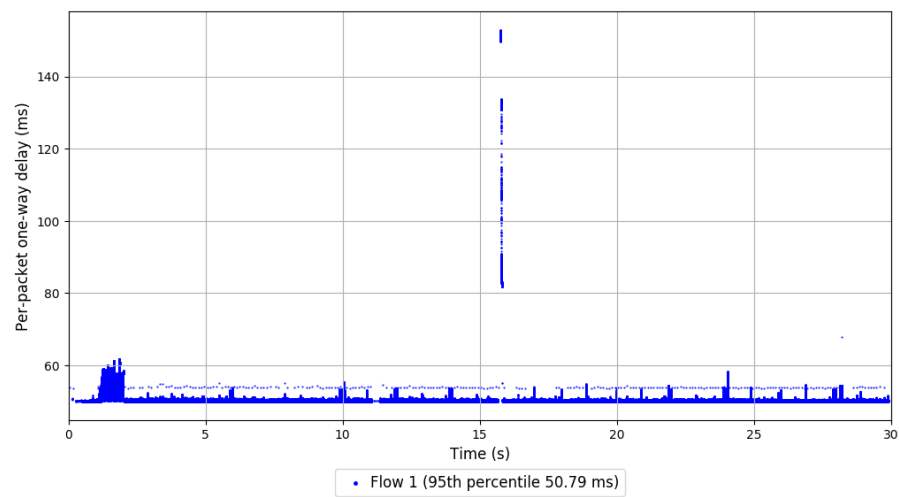
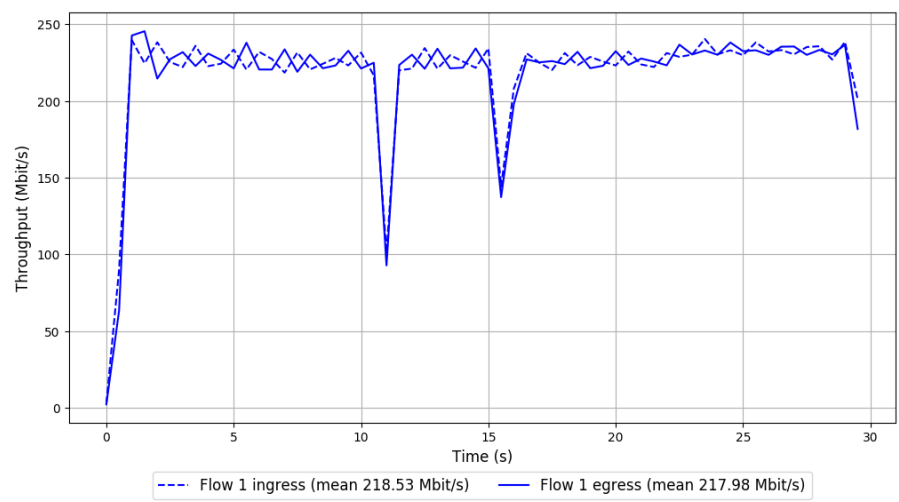
-- Flow 1:

Average throughput: 217.98 Mbit/s

95th percentile per-packet one-way delay: 50.791 ms

Loss rate: 0.54%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-03-20 14:04:45

End at: 2018-03-20 14:05:15

Below is generated by plot.py at 2018-03-20 18:31:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.05 Mbit/s

95th percentile per-packet one-way delay: 50.575 ms

Loss rate: 0.36%

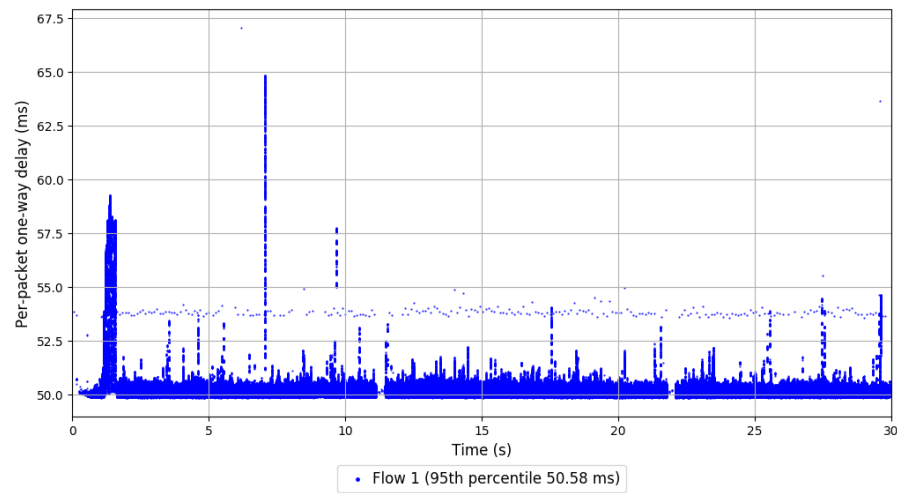
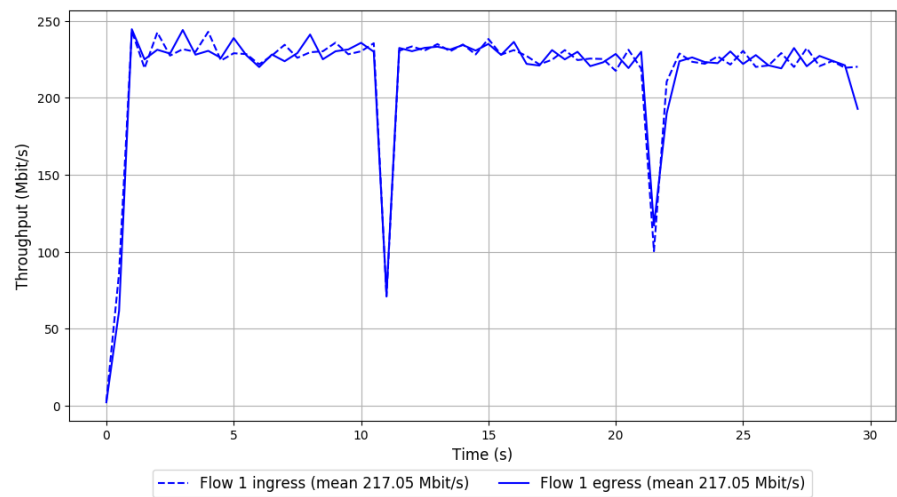
-- Flow 1:

Average throughput: 217.05 Mbit/s

95th percentile per-packet one-way delay: 50.575 ms

Loss rate: 0.36%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-03-20 14:19:09

End at: 2018-03-20 14:19:39

Below is generated by plot.py at 2018-03-20 18:31:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.09 Mbit/s

95th percentile per-packet one-way delay: 57.107 ms

Loss rate: 0.36%

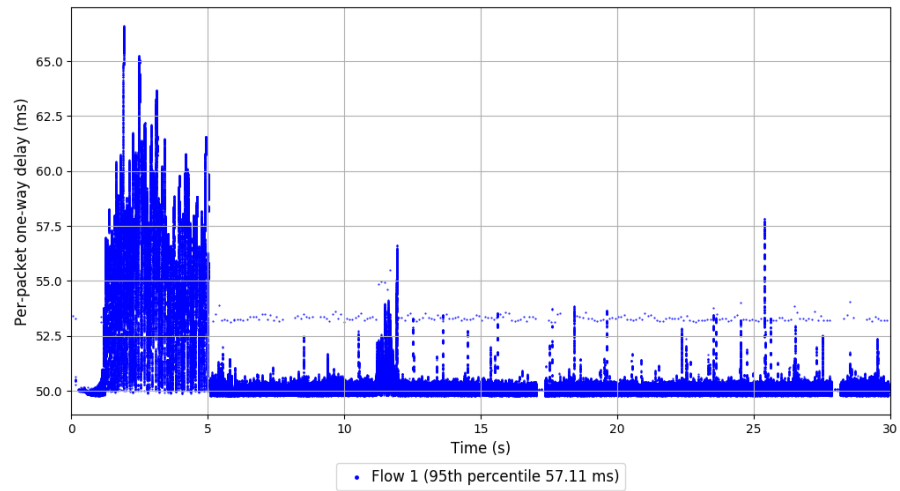
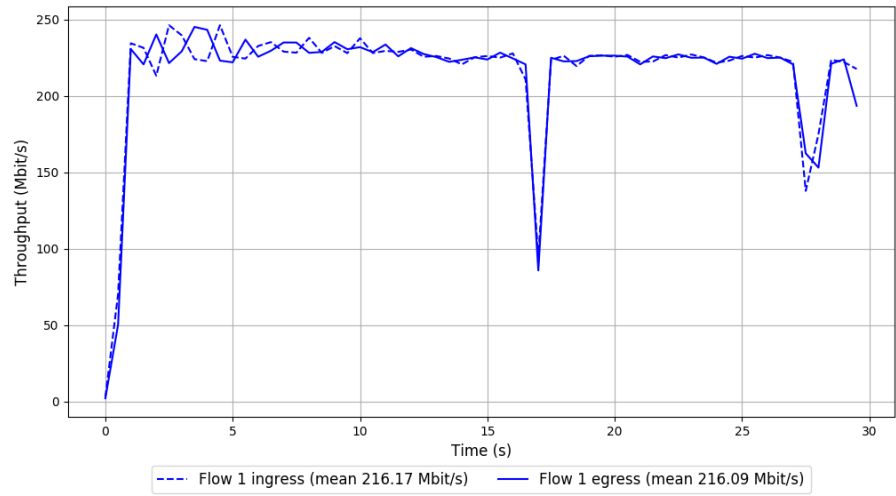
-- Flow 1:

Average throughput: 216.09 Mbit/s

95th percentile per-packet one-way delay: 57.107 ms

Loss rate: 0.36%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-03-20 14:33:39

End at: 2018-03-20 14:34:09

Below is generated by plot.py at 2018-03-20 18:31:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.75 Mbit/s

95th percentile per-packet one-way delay: 50.277 ms

Loss rate: 0.37%

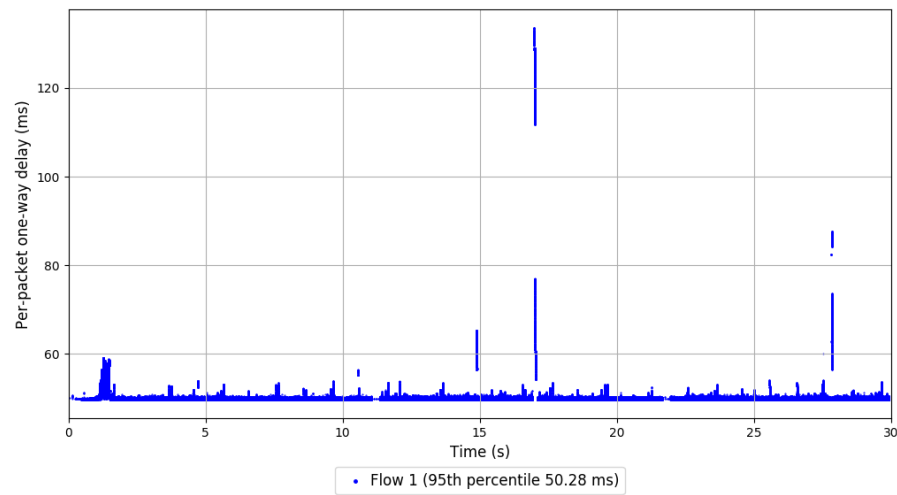
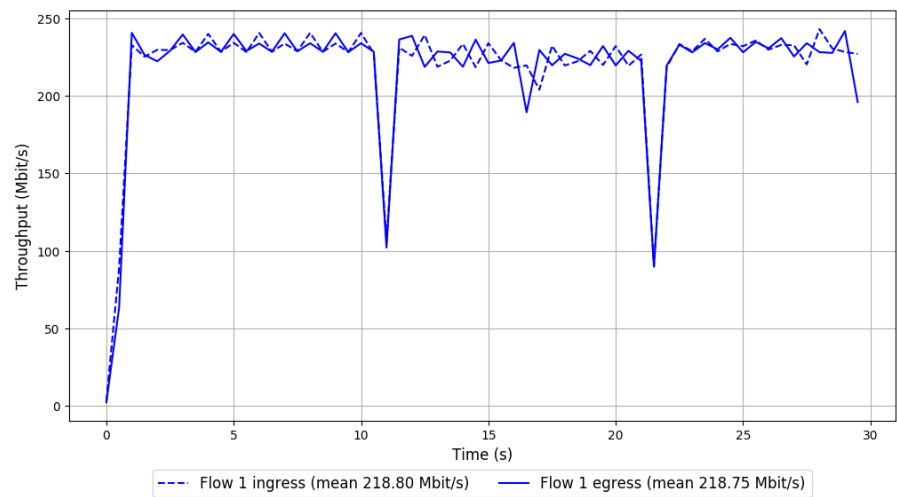
-- Flow 1:

Average throughput: 218.75 Mbit/s

95th percentile per-packet one-way delay: 50.277 ms

Loss rate: 0.37%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-03-20 14:47:57

End at: 2018-03-20 14:48:27

Below is generated by plot.py at 2018-03-20 18:31:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.99 Mbit/s

95th percentile per-packet one-way delay: 50.142 ms

Loss rate: 0.36%

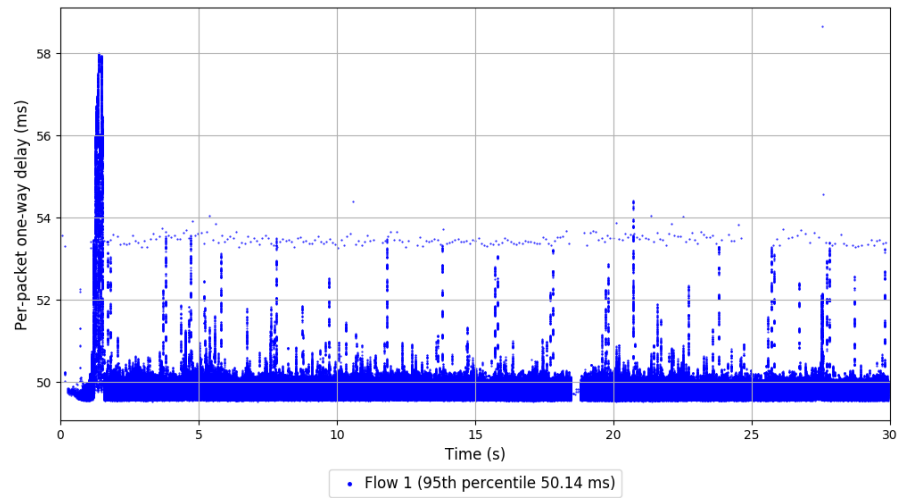
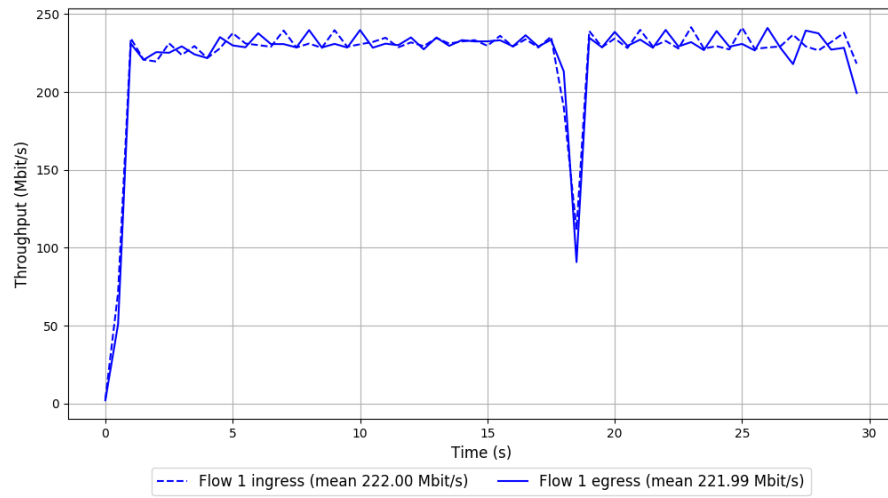
-- Flow 1:

Average throughput: 221.99 Mbit/s

95th percentile per-packet one-way delay: 50.142 ms

Loss rate: 0.36%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-03-20 15:02:35

End at: 2018-03-20 15:03:05

Below is generated by plot.py at 2018-03-20 18:31:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.35 Mbit/s

95th percentile per-packet one-way delay: 50.549 ms

Loss rate: 0.37%

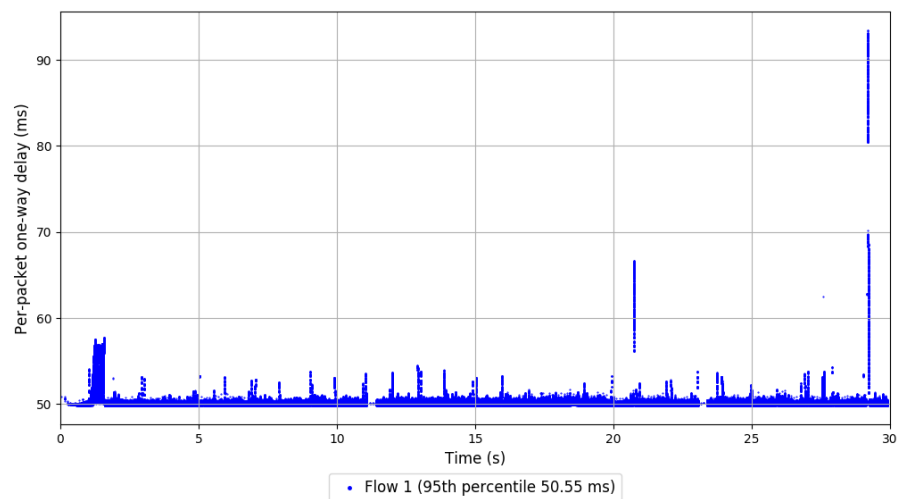
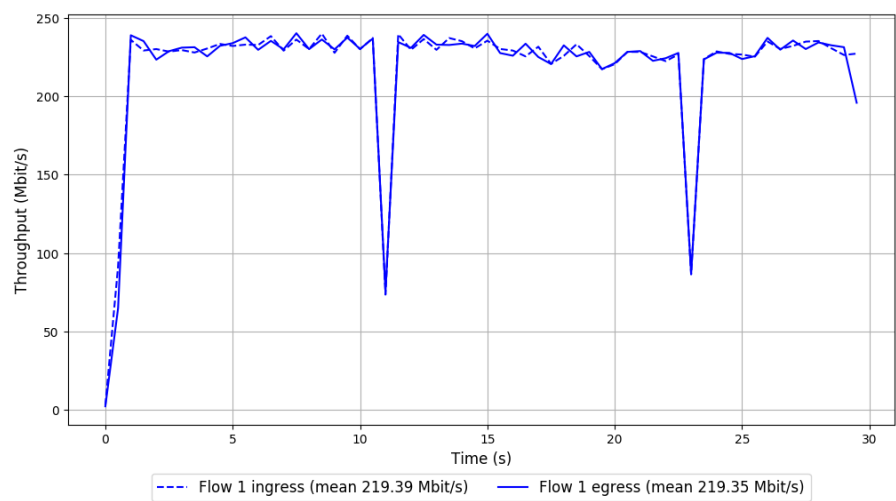
-- Flow 1:

Average throughput: 219.35 Mbit/s

95th percentile per-packet one-way delay: 50.549 ms

Loss rate: 0.37%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-03-20 15:17:10

End at: 2018-03-20 15:17:40

Below is generated by plot.py at 2018-03-20 18:31:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.46 Mbit/s

95th percentile per-packet one-way delay: 50.538 ms

Loss rate: 0.48%

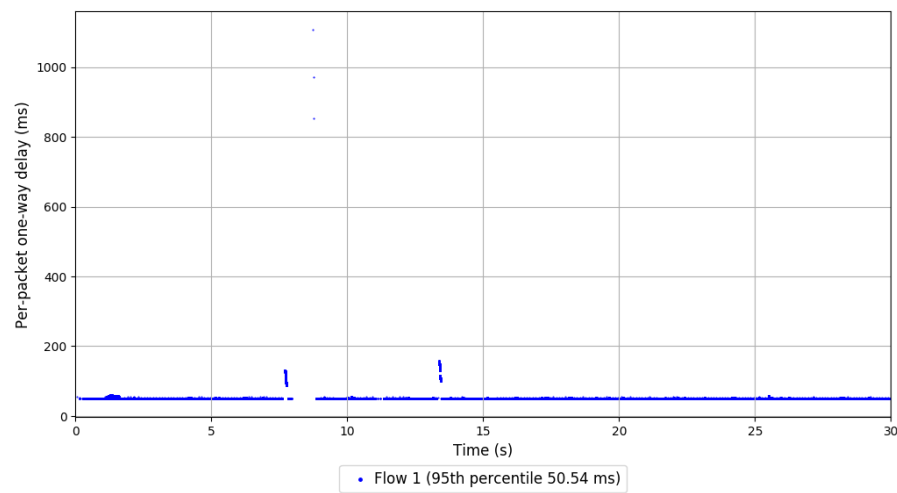
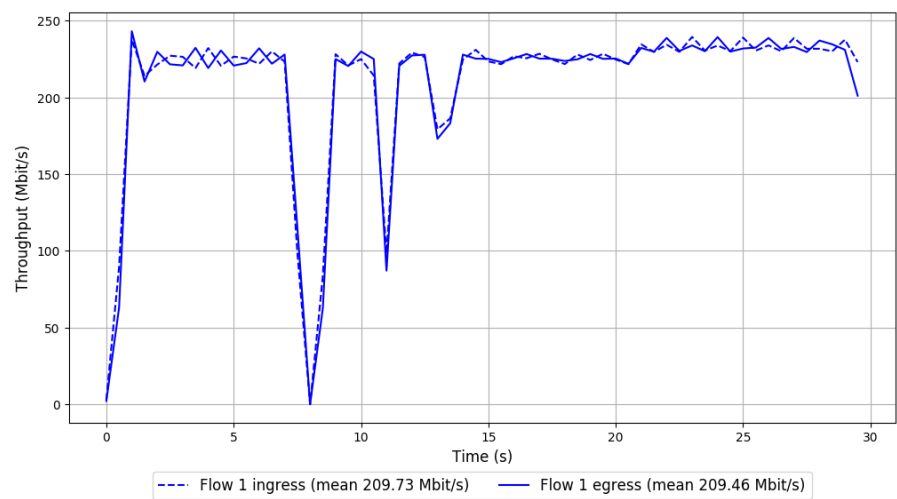
-- Flow 1:

Average throughput: 209.46 Mbit/s

95th percentile per-packet one-way delay: 50.538 ms

Loss rate: 0.48%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-03-20 15:31:40

End at: 2018-03-20 15:32:10

Below is generated by plot.py at 2018-03-20 18:35:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.50 Mbit/s

95th percentile per-packet one-way delay: 50.691 ms

Loss rate: 0.35%

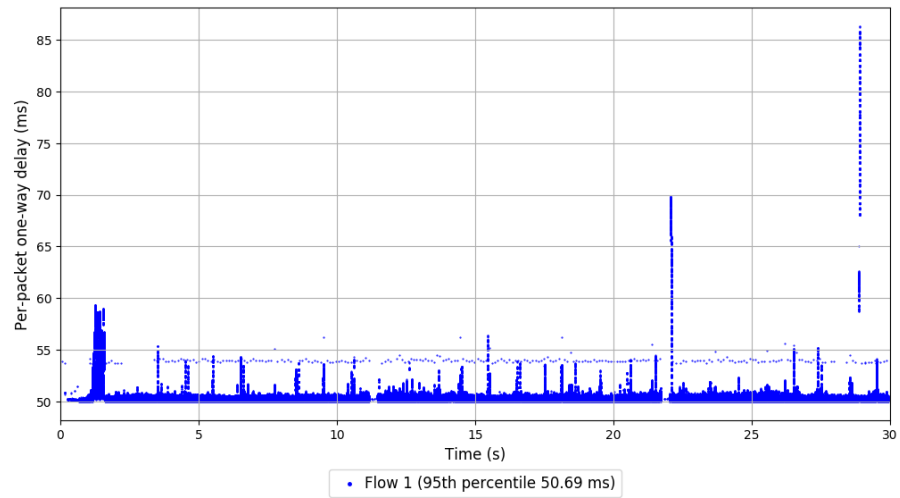
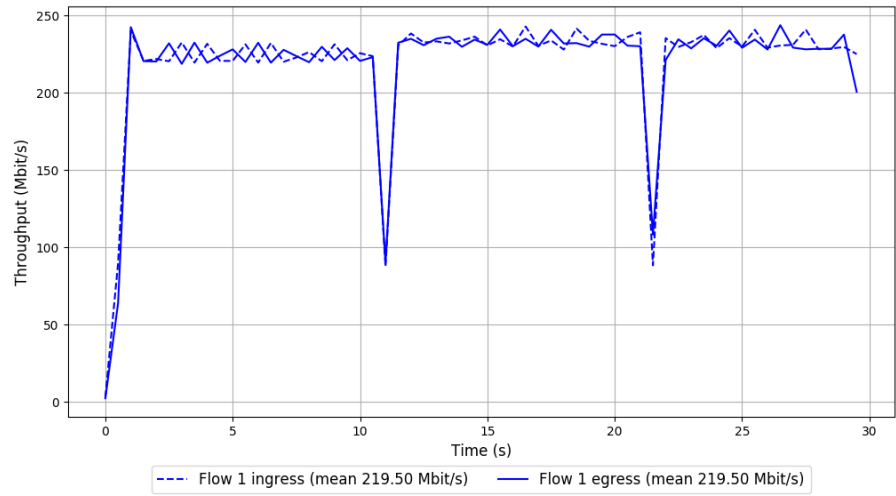
-- Flow 1:

Average throughput: 219.50 Mbit/s

95th percentile per-packet one-way delay: 50.691 ms

Loss rate: 0.35%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-03-20 15:45:58

End at: 2018-03-20 15:46:28

Below is generated by plot.py at 2018-03-20 18:35:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.47 Mbit/s

95th percentile per-packet one-way delay: 57.382 ms

Loss rate: 0.36%

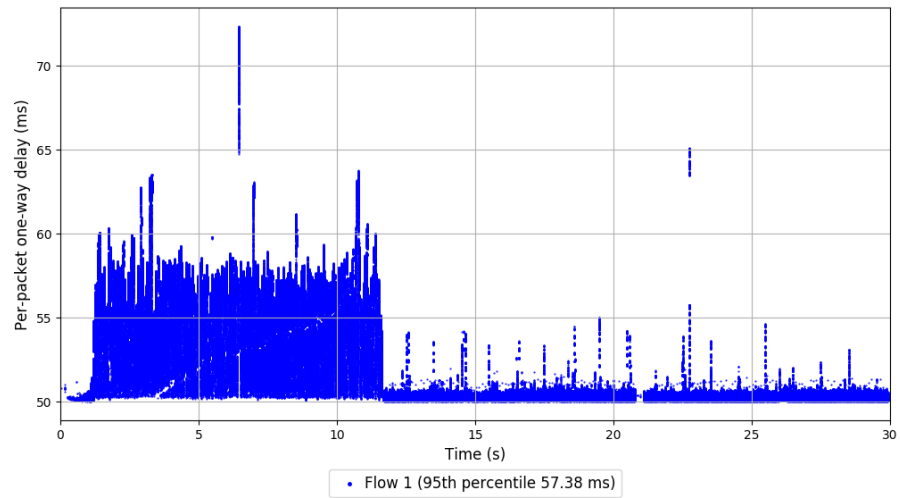
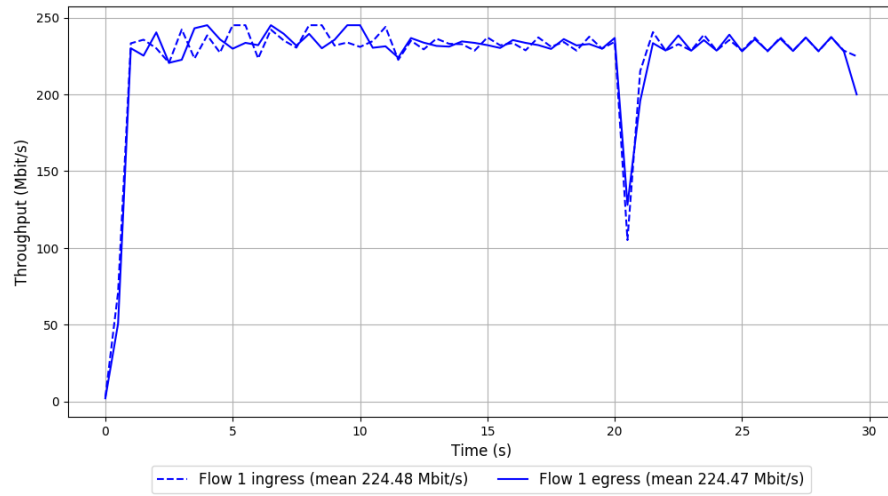
-- Flow 1:

Average throughput: 224.47 Mbit/s

95th percentile per-packet one-way delay: 57.382 ms

Loss rate: 0.36%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-03-20 13:39:45

End at: 2018-03-20 13:40:15

Below is generated by plot.py at 2018-03-20 18:35:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.43 Mbit/s

95th percentile per-packet one-way delay: 59.234 ms

Loss rate: 0.36%

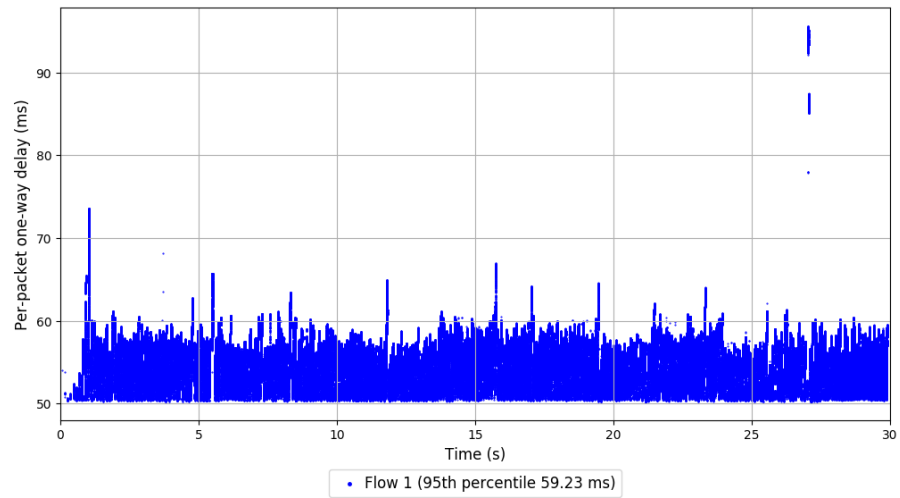
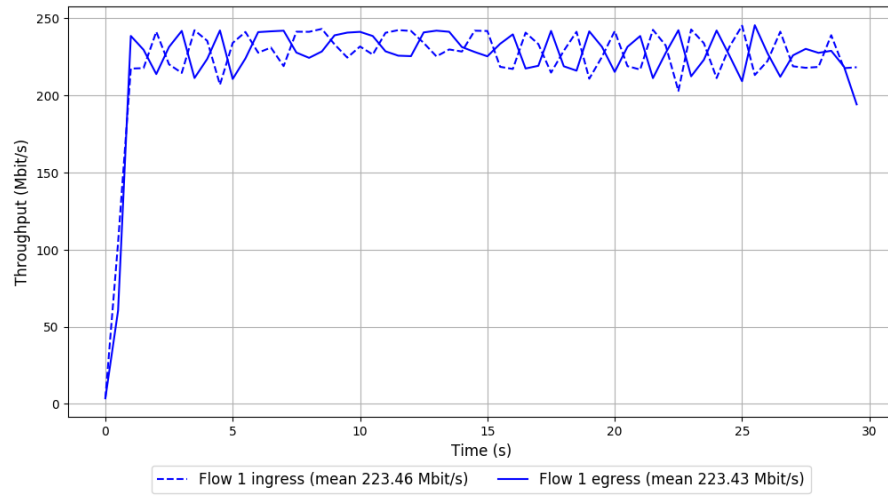
-- Flow 1:

Average throughput: 223.43 Mbit/s

95th percentile per-packet one-way delay: 59.234 ms

Loss rate: 0.36%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-03-20 13:54:08

End at: 2018-03-20 13:54:38

Below is generated by plot.py at 2018-03-20 18:35:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.53 Mbit/s

95th percentile per-packet one-way delay: 58.238 ms

Loss rate: 0.22%

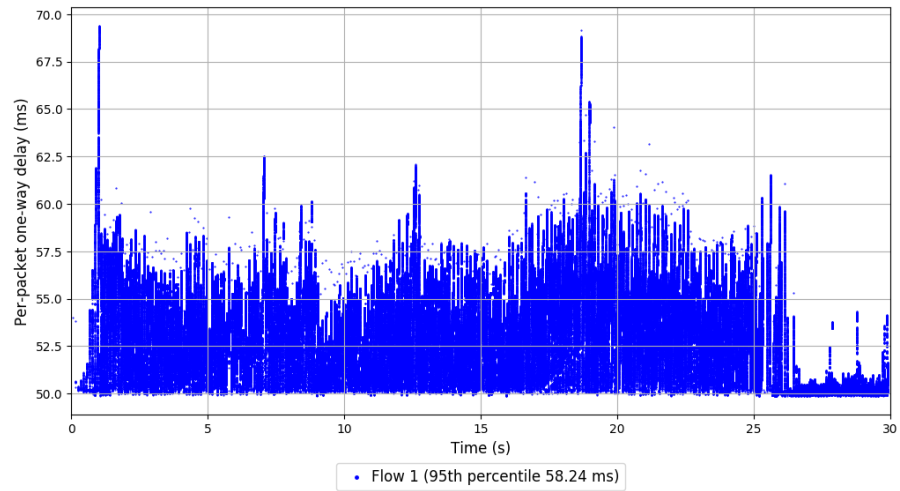
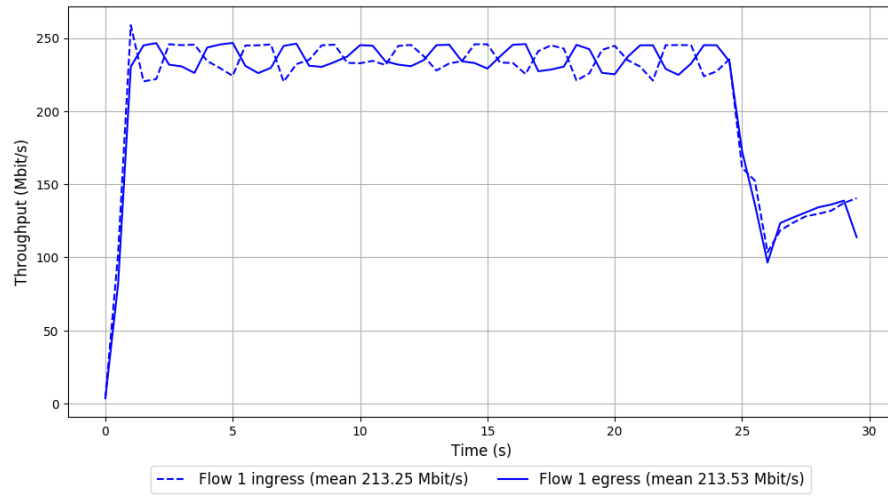
-- Flow 1:

Average throughput: 213.53 Mbit/s

95th percentile per-packet one-way delay: 58.238 ms

Loss rate: 0.22%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-03-20 14:08:41

End at: 2018-03-20 14:09:11

Below is generated by plot.py at 2018-03-20 18:35:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 156.29 Mbit/s

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

Loss rate: 0.50%

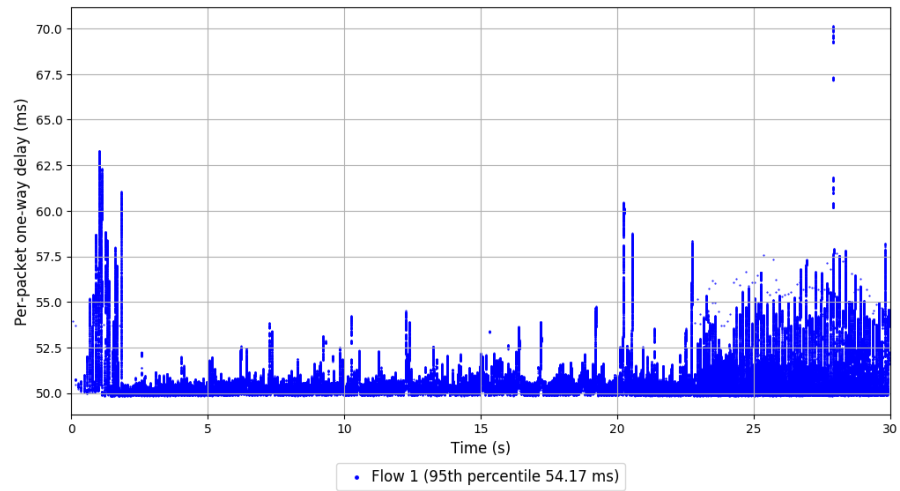
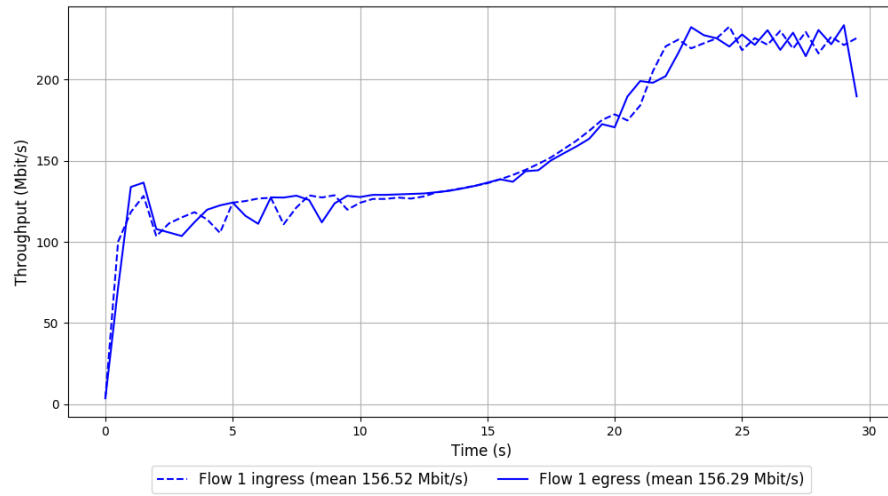
-- Flow 1:

Average throughput: 156.29 Mbit/s

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

Loss rate: 0.50%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-03-20 14:23:06

End at: 2018-03-20 14:23:36

Below is generated by plot.py at 2018-03-20 18:35:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 165.54 Mbit/s

95th percentile per-packet one-way delay: 61.049 ms

Loss rate: 0.46%

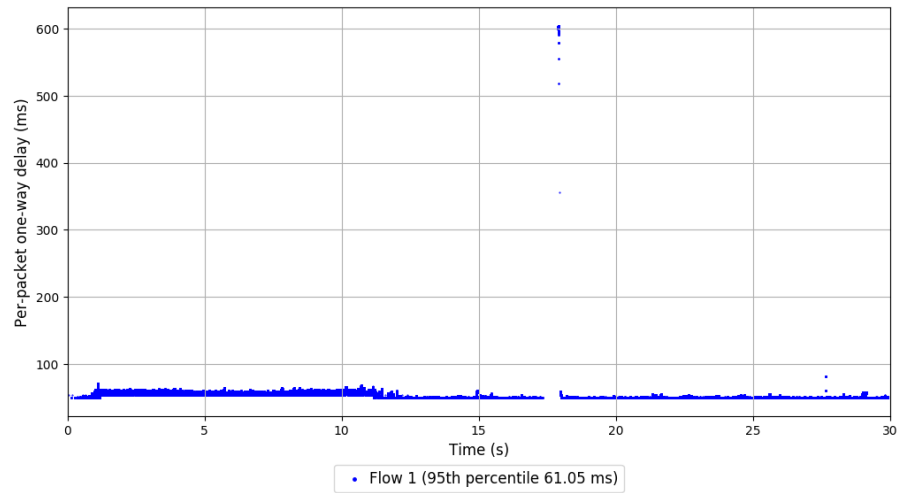
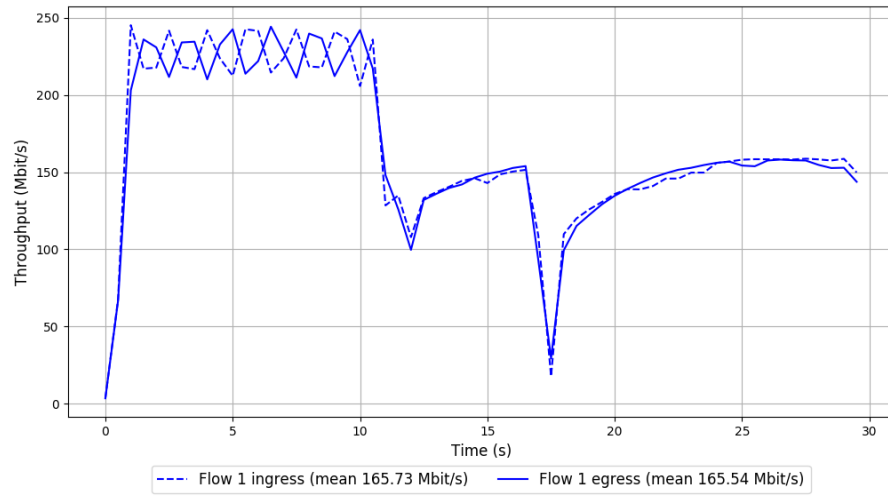
-- Flow 1:

Average throughput: 165.54 Mbit/s

95th percentile per-packet one-way delay: 61.049 ms

Loss rate: 0.46%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-03-20 14:37:37

End at: 2018-03-20 14:38:07

Below is generated by plot.py at 2018-03-20 18:35:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 177.54 Mbit/s

95th percentile per-packet one-way delay: 60.578 ms

Loss rate: 0.31%

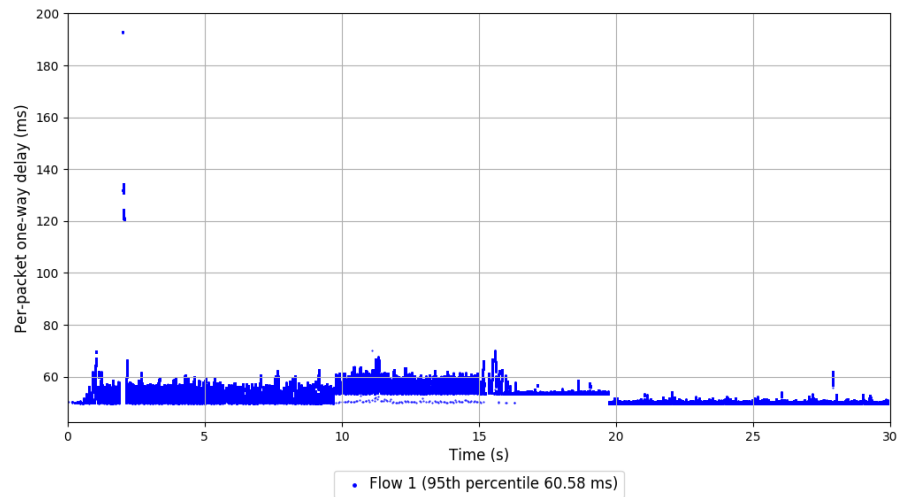
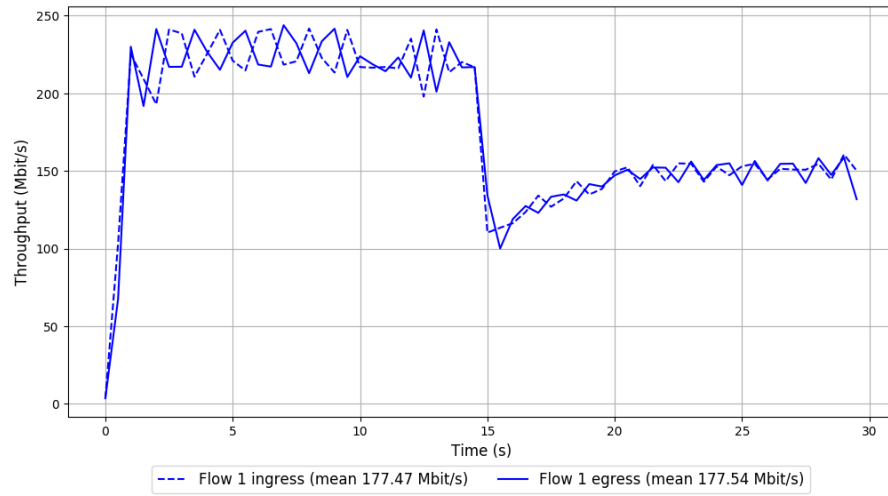
-- Flow 1:

Average throughput: 177.54 Mbit/s

95th percentile per-packet one-way delay: 60.578 ms

Loss rate: 0.31%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-03-20 14:51:57

End at: 2018-03-20 14:52:27

Below is generated by plot.py at 2018-03-20 18:35:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.38 Mbit/s

95th percentile per-packet one-way delay: 54.712 ms

Loss rate: 0.22%

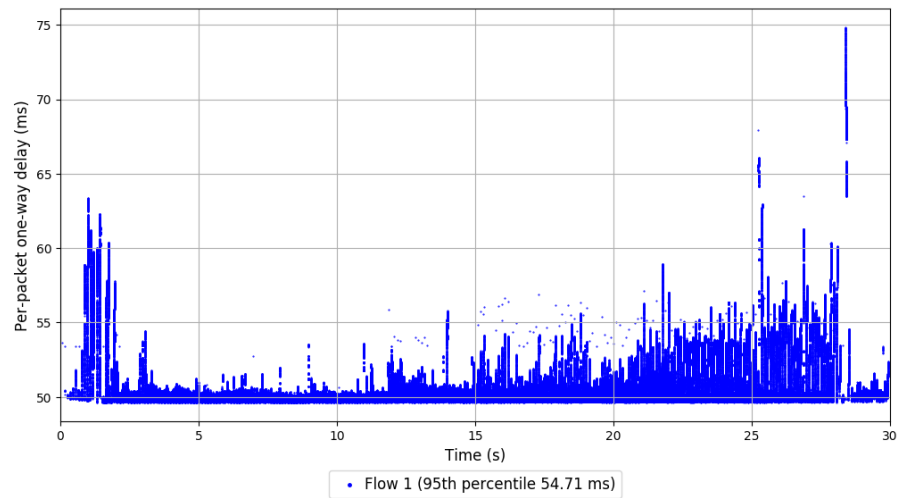
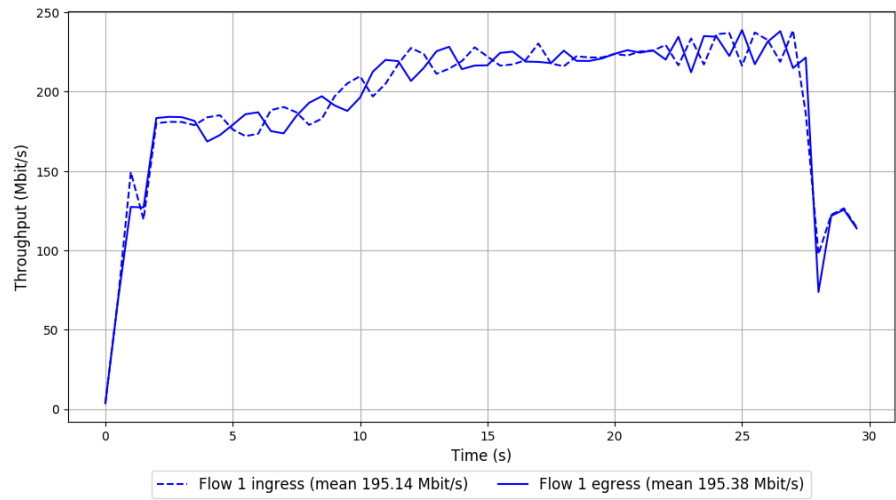
-- Flow 1:

Average throughput: 195.38 Mbit/s

95th percentile per-packet one-way delay: 54.712 ms

Loss rate: 0.22%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-03-20 15:06:38

End at: 2018-03-20 15:07:08

Below is generated by plot.py at 2018-03-20 18:36:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 114.86 Mbit/s

95th percentile per-packet one-way delay: 51.678 ms

Loss rate: 0.42%

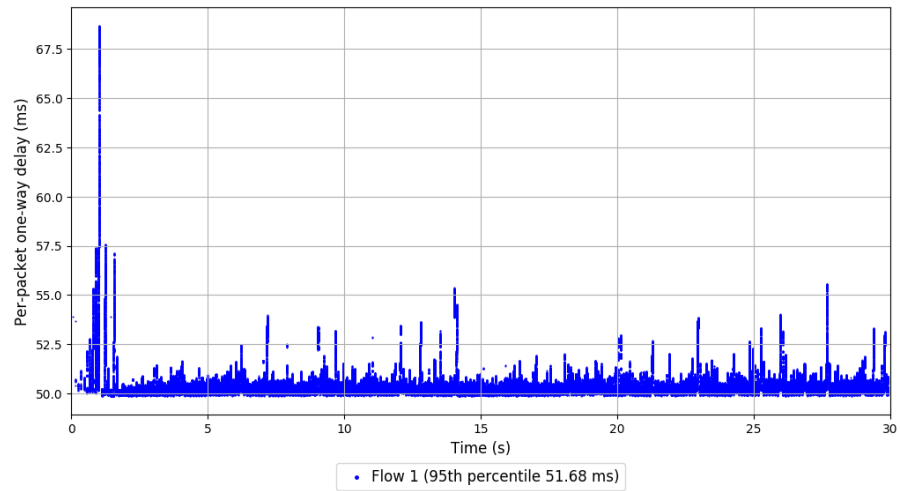
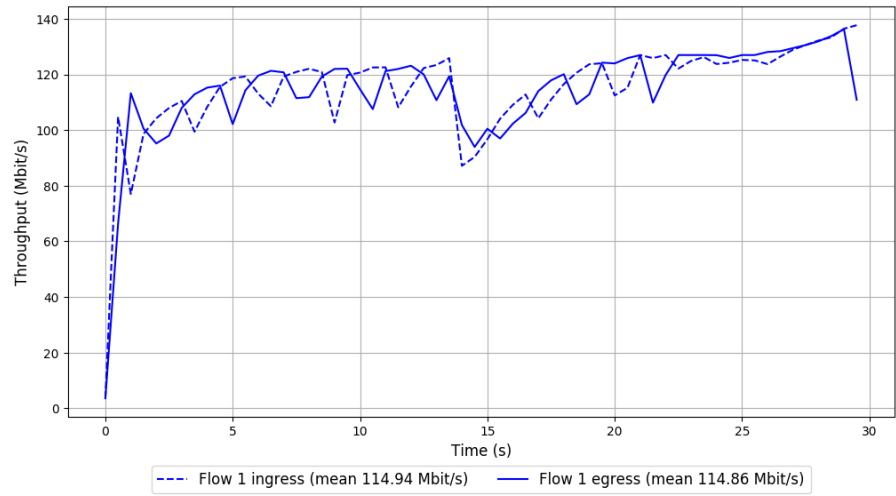
-- Flow 1:

Average throughput: 114.86 Mbit/s

95th percentile per-packet one-way delay: 51.678 ms

Loss rate: 0.42%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-03-20 15:21:08

End at: 2018-03-20 15:21:38

Below is generated by plot.py at 2018-03-20 18:37:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.26 Mbit/s

95th percentile per-packet one-way delay: 58.721 ms

Loss rate: 0.46%

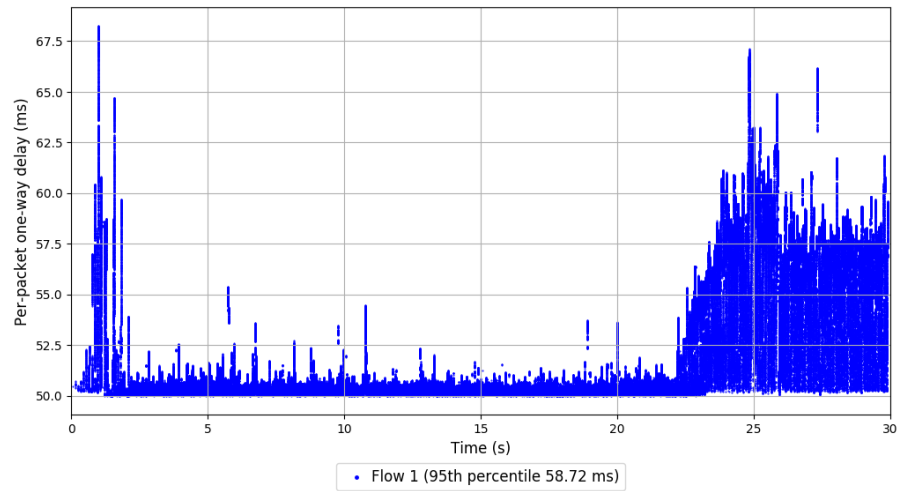
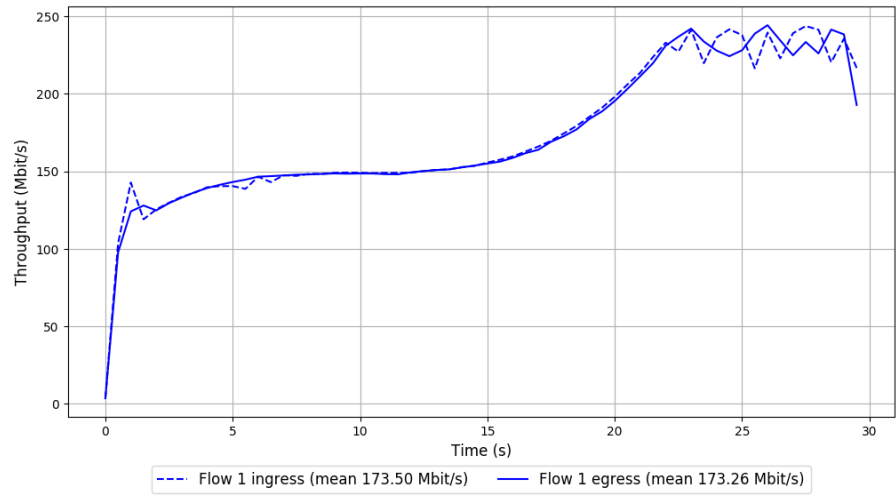
-- Flow 1:

Average throughput: 173.26 Mbit/s

95th percentile per-packet one-way delay: 58.721 ms

Loss rate: 0.46%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-03-20 15:35:39

End at: 2018-03-20 15:36:09

Below is generated by plot.py at 2018-03-20 18:37:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.72 Mbit/s

95th percentile per-packet one-way delay: 55.980 ms

Loss rate: 0.48%

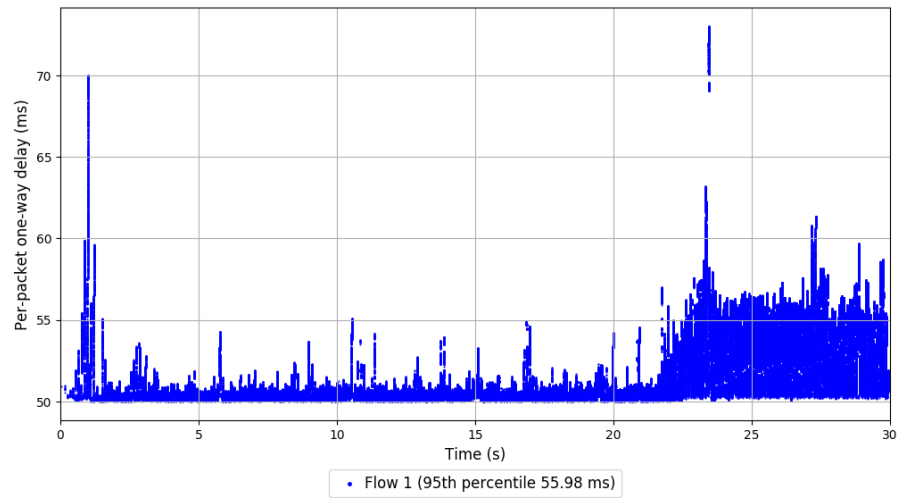
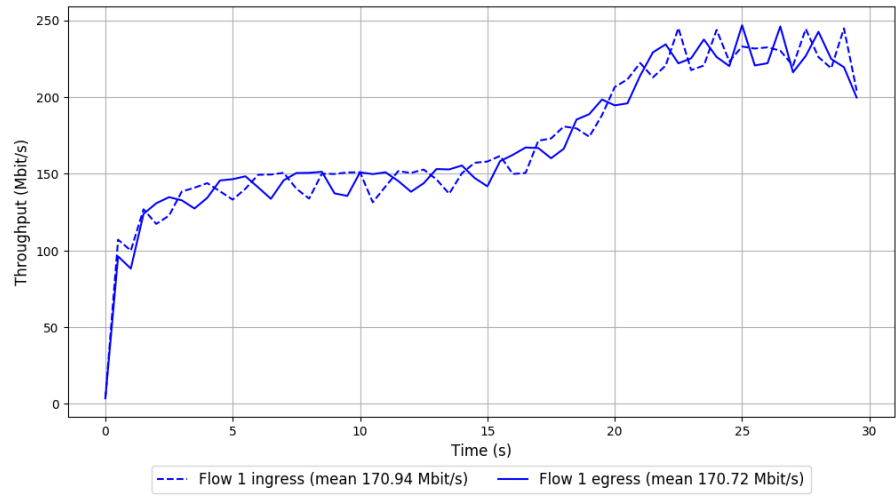
-- Flow 1:

Average throughput: 170.72 Mbit/s

95th percentile per-packet one-way delay: 55.980 ms

Loss rate: 0.48%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-03-20 15:50:04

End at: 2018-03-20 15:50:34

Below is generated by plot.py at 2018-03-20 18:37:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.85 Mbit/s

95th percentile per-packet one-way delay: 57.554 ms

Loss rate: 0.36%

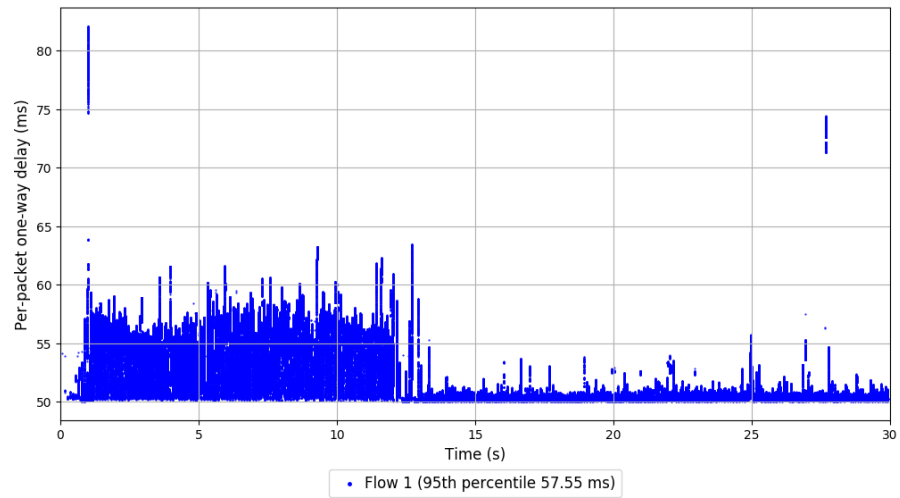
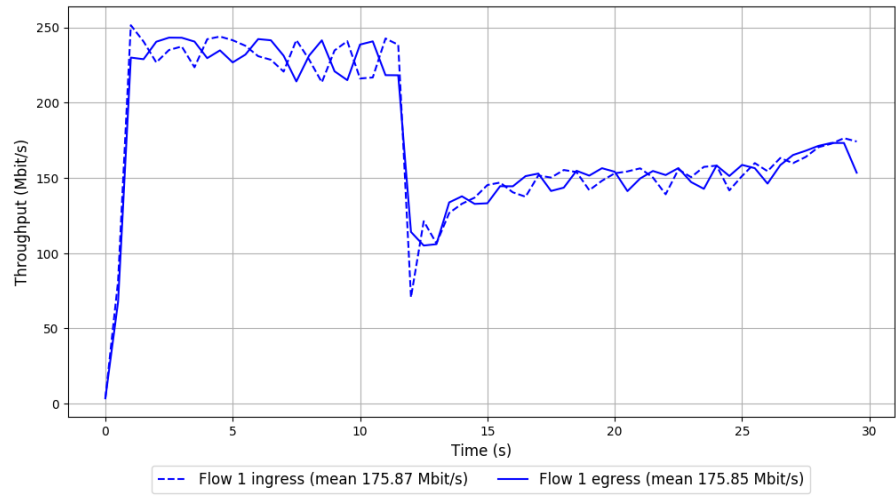
-- Flow 1:

Average throughput: 175.85 Mbit/s

95th percentile per-packet one-way delay: 57.554 ms

Loss rate: 0.36%

Run 10: Report of TCP Cubic — Data Link

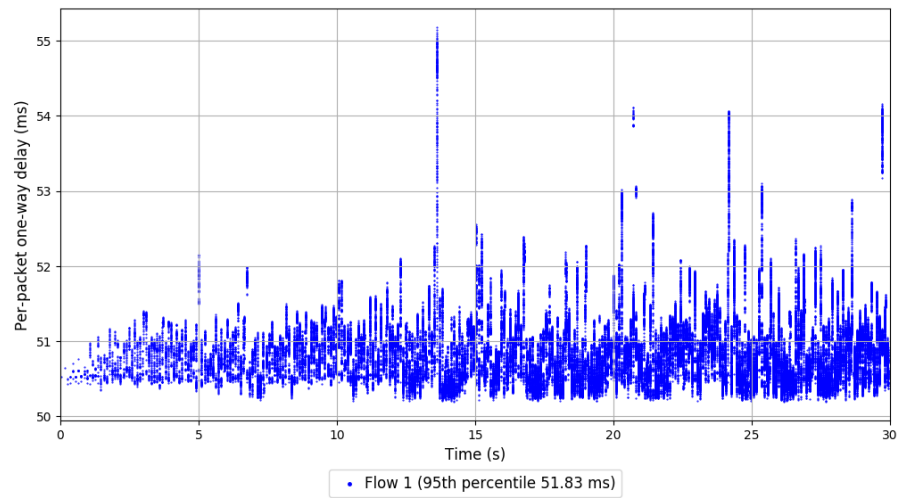
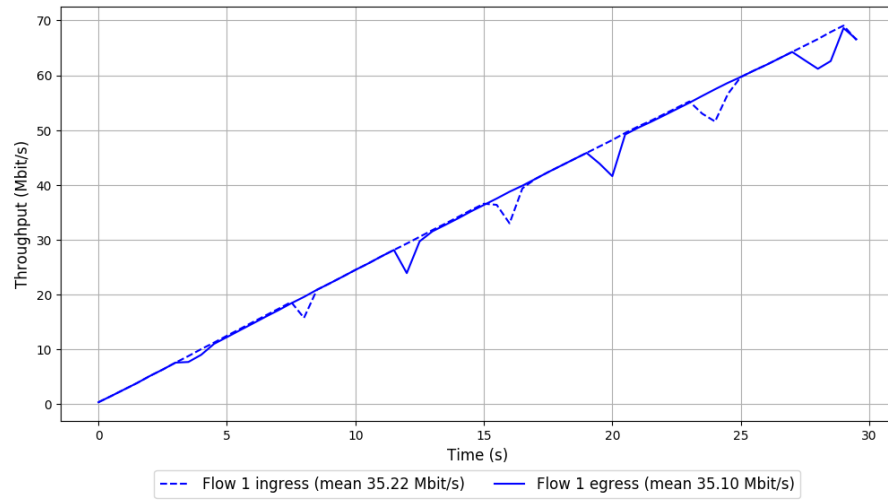


```
Run 1: Statistics of LEDBAT

Start at: 2018-03-20 13:43:01
End at: 2018-03-20 13:43:32

# Below is generated by plot.py at 2018-03-20 18:37:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.10 Mbit/s
95th percentile per-packet one-way delay: 51.832 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 35.10 Mbit/s
95th percentile per-packet one-way delay: 51.832 ms
Loss rate: 0.65%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-03-20 13:57:20

End at: 2018-03-20 13:57:50

Below is generated by plot.py at 2018-03-20 18:37:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.16 Mbit/s

95th percentile per-packet one-way delay: 54.579 ms

Loss rate: 0.69%

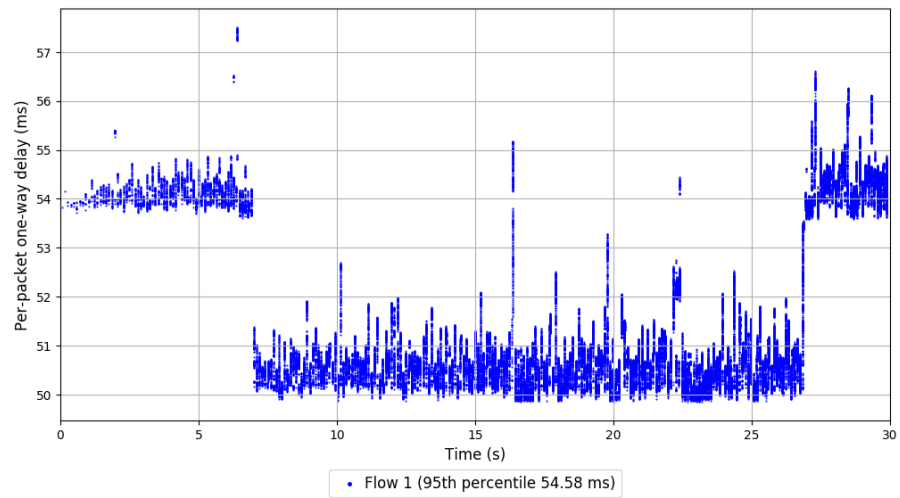
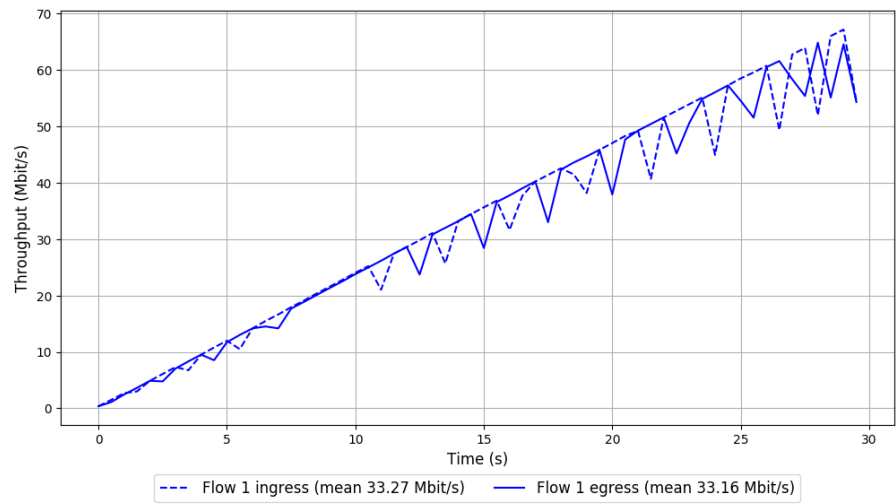
-- Flow 1:

Average throughput: 33.16 Mbit/s

95th percentile per-packet one-way delay: 54.579 ms

Loss rate: 0.69%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-03-20 14:11:48

End at: 2018-03-20 14:12:18

Below is generated by plot.py at 2018-03-20 18:37:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.48 Mbit/s

95th percentile per-packet one-way delay: 51.399 ms

Loss rate: 0.67%

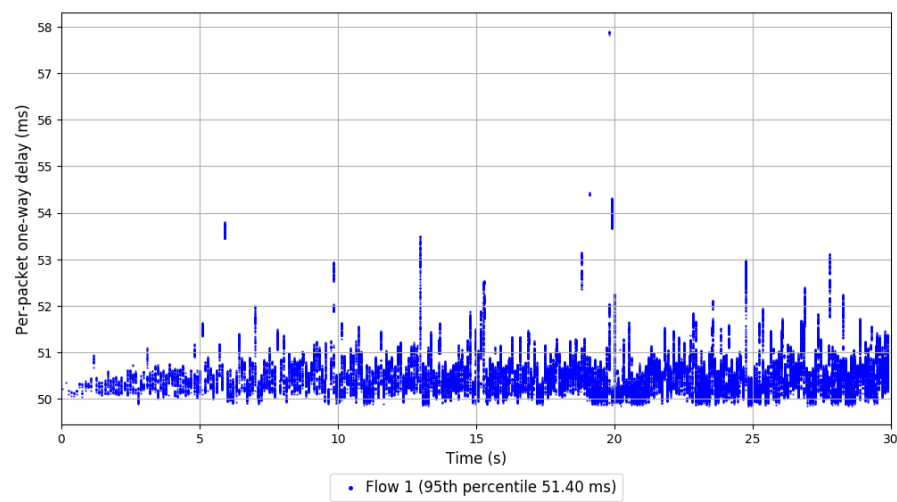
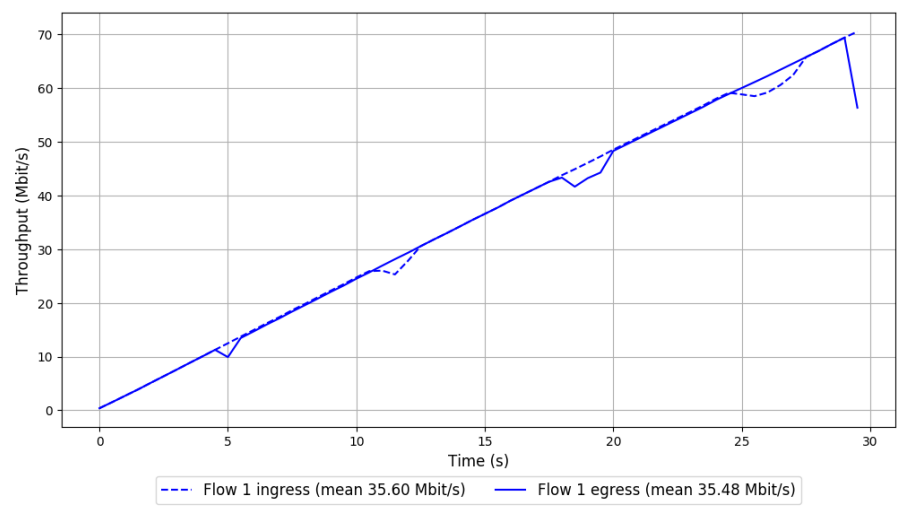
-- Flow 1:

Average throughput: 35.48 Mbit/s

95th percentile per-packet one-way delay: 51.399 ms

Loss rate: 0.67%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-03-20 14:26:33

End at: 2018-03-20 14:27:03

Below is generated by plot.py at 2018-03-20 18:37:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.02 Mbit/s

95th percentile per-packet one-way delay: 51.431 ms

Loss rate: 0.68%

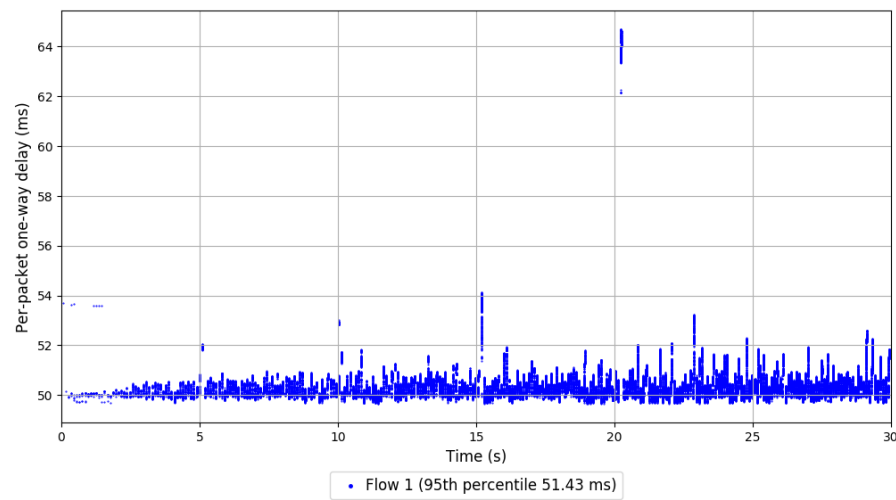
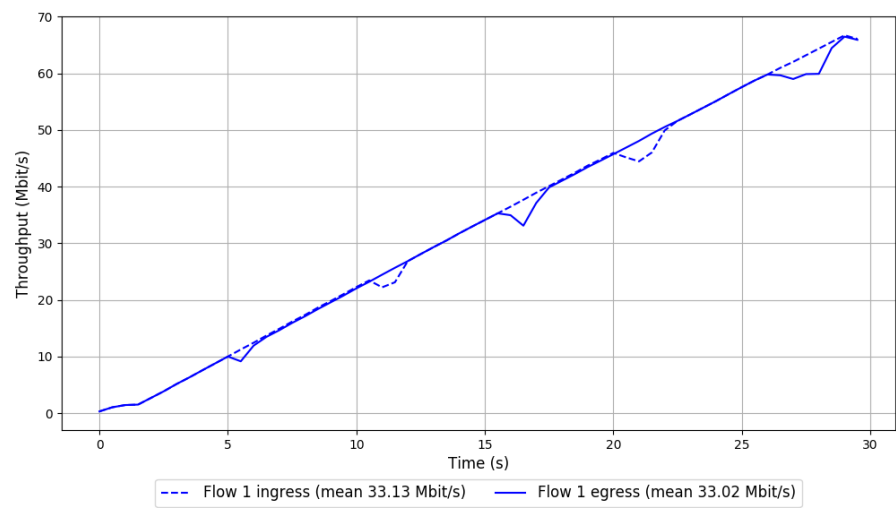
-- Flow 1:

Average throughput: 33.02 Mbit/s

95th percentile per-packet one-way delay: 51.431 ms

Loss rate: 0.68%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-03-20 14:40:45

End at: 2018-03-20 14:41:15

Below is generated by plot.py at 2018-03-20 18:37:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.08 Mbit/s

95th percentile per-packet one-way delay: 51.291 ms

Loss rate: 0.69%

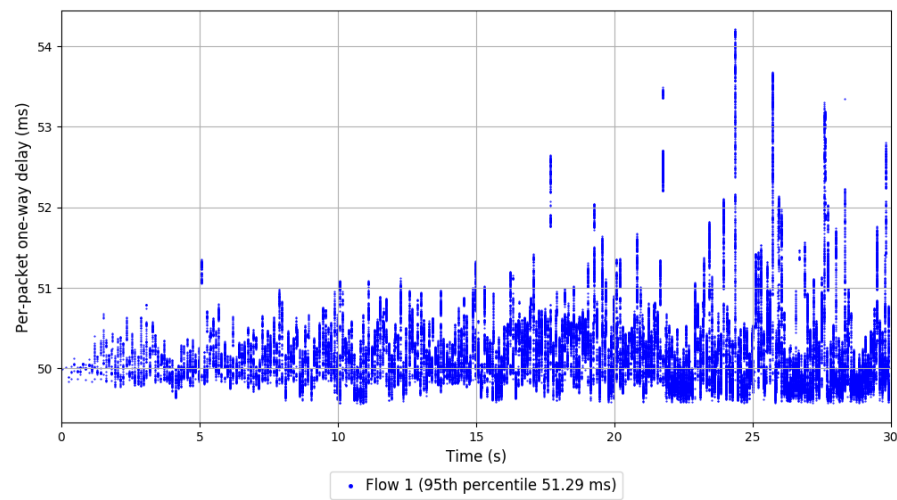
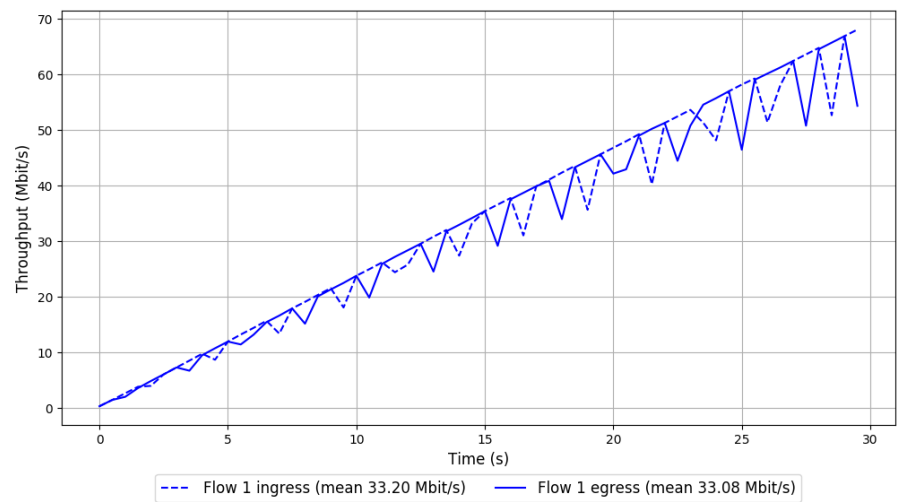
-- Flow 1:

Average throughput: 33.08 Mbit/s

95th percentile per-packet one-way delay: 51.291 ms

Loss rate: 0.69%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-03-20 14:55:09

End at: 2018-03-20 14:55:39

Below is generated by plot.py at 2018-03-20 18:37:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.50 Mbit/s

95th percentile per-packet one-way delay: 51.276 ms

Loss rate: 0.68%

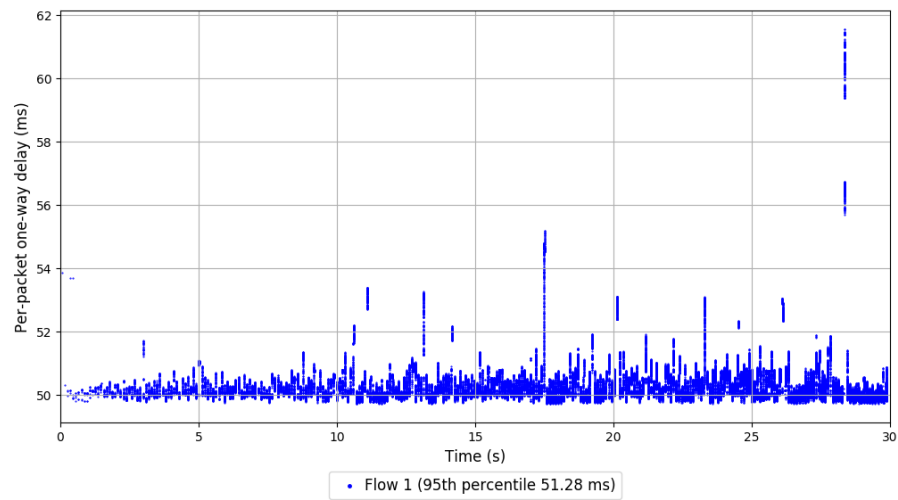
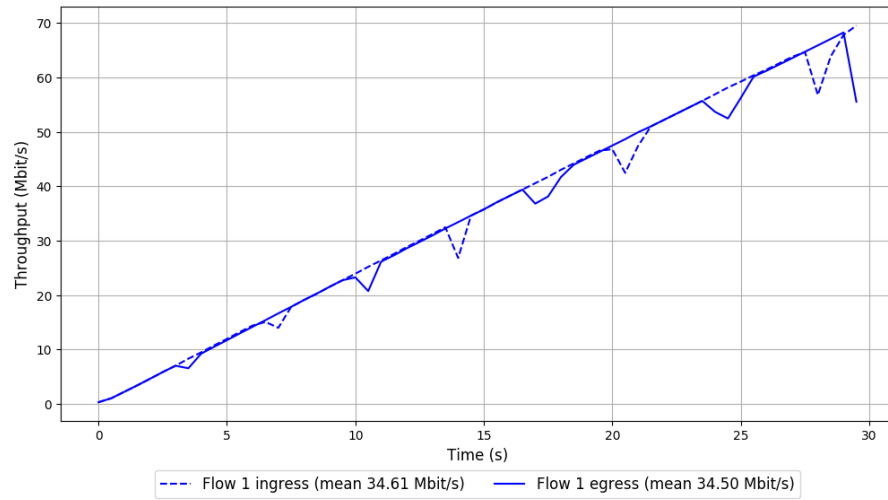
-- Flow 1:

Average throughput: 34.50 Mbit/s

95th percentile per-packet one-way delay: 51.276 ms

Loss rate: 0.68%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-03-20 15:09:48

End at: 2018-03-20 15:10:18

Below is generated by plot.py at 2018-03-20 18:37:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.19 Mbit/s

95th percentile per-packet one-way delay: 51.964 ms

Loss rate: 0.68%

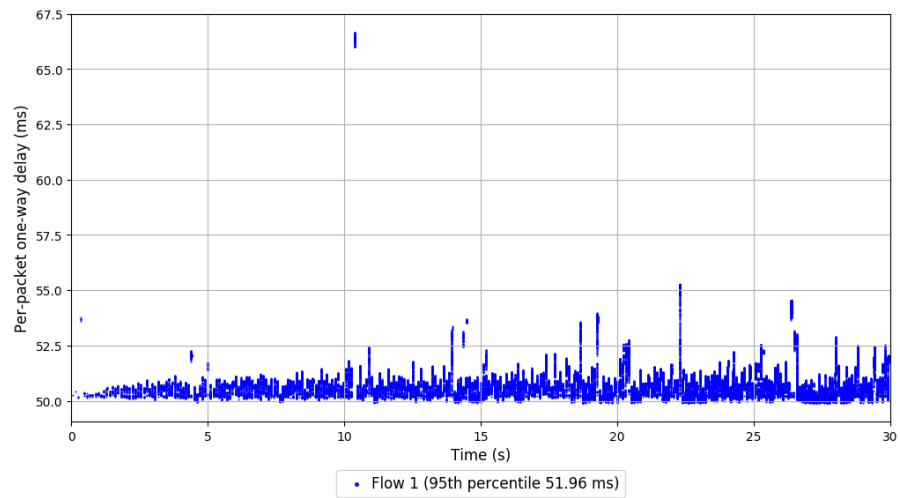
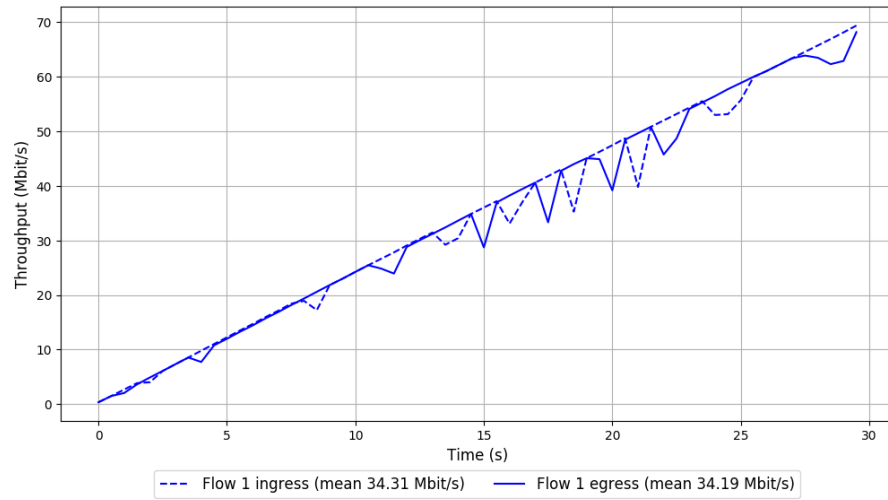
-- Flow 1:

Average throughput: 34.19 Mbit/s

95th percentile per-packet one-way delay: 51.964 ms

Loss rate: 0.68%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-03-20 15:24:20

End at: 2018-03-20 15:24:50

Below is generated by plot.py at 2018-03-20 18:37:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.03 Mbit/s

95th percentile per-packet one-way delay: 51.644 ms

Loss rate: 0.67%

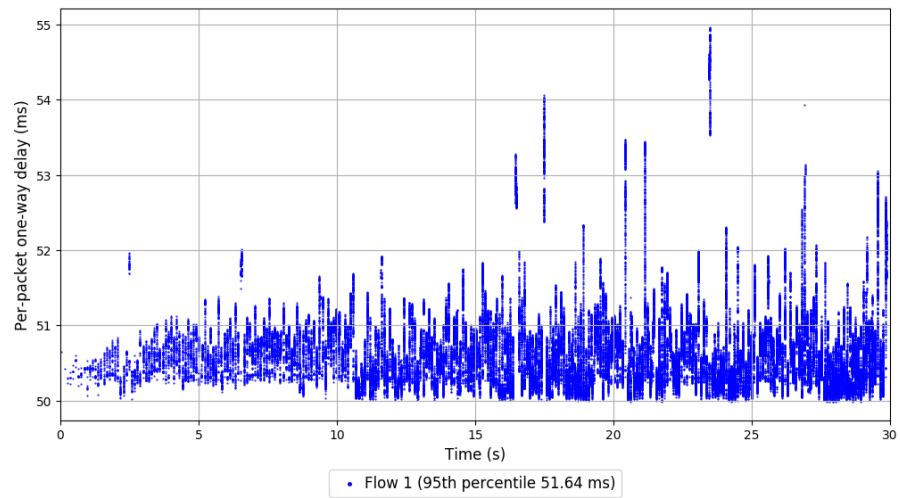
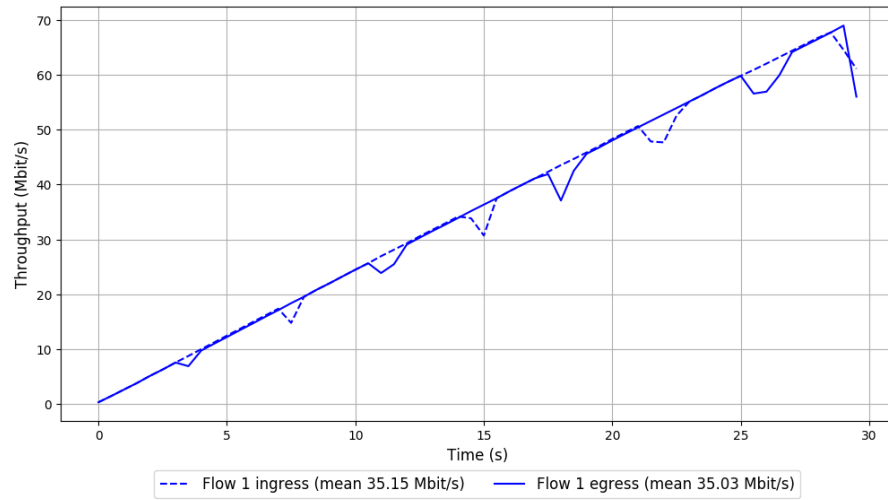
-- Flow 1:

Average throughput: 35.03 Mbit/s

95th percentile per-packet one-way delay: 51.644 ms

Loss rate: 0.67%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-03-20 15:38:51

End at: 2018-03-20 15:39:21

Below is generated by plot.py at 2018-03-20 18:37:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.78 Mbit/s

95th percentile per-packet one-way delay: 51.936 ms

Loss rate: 0.70%

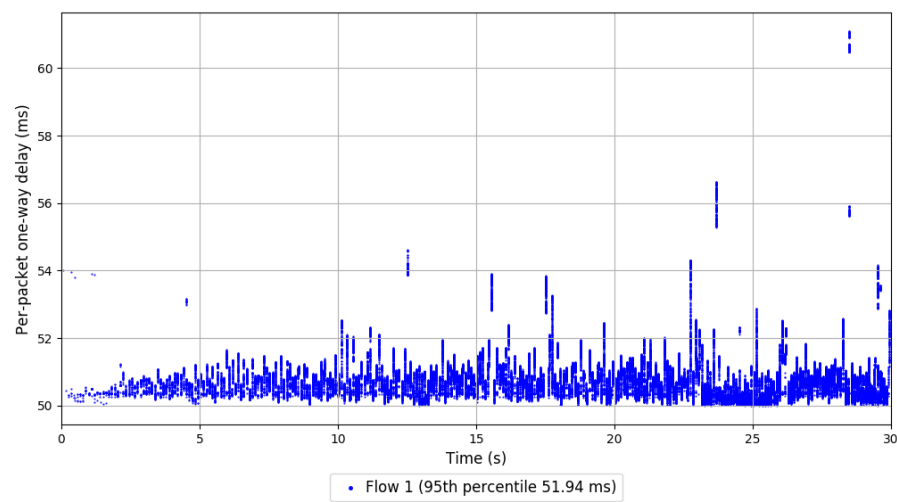
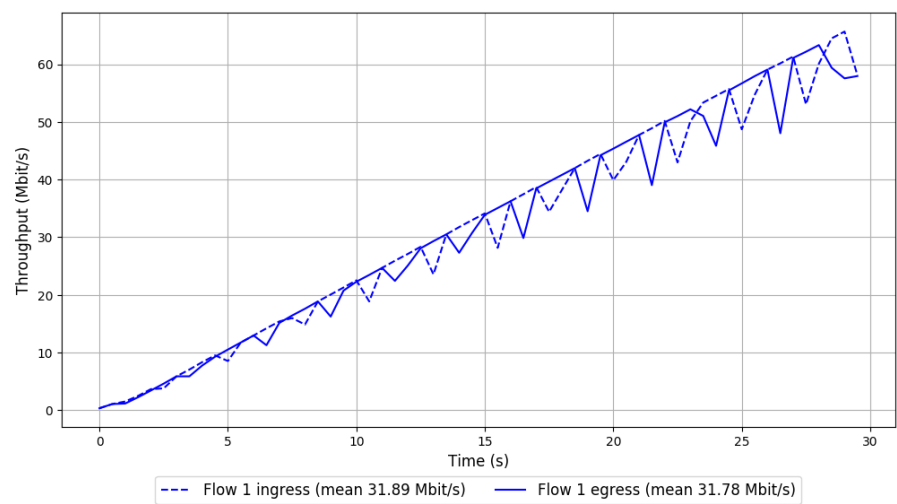
-- Flow 1:

Average throughput: 31.78 Mbit/s

95th percentile per-packet one-way delay: 51.936 ms

Loss rate: 0.70%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-03-20 15:53:17

End at: 2018-03-20 15:53:47

Below is generated by plot.py at 2018-03-20 18:37:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.63 Mbit/s

95th percentile per-packet one-way delay: 50.844 ms

Loss rate: 0.31%

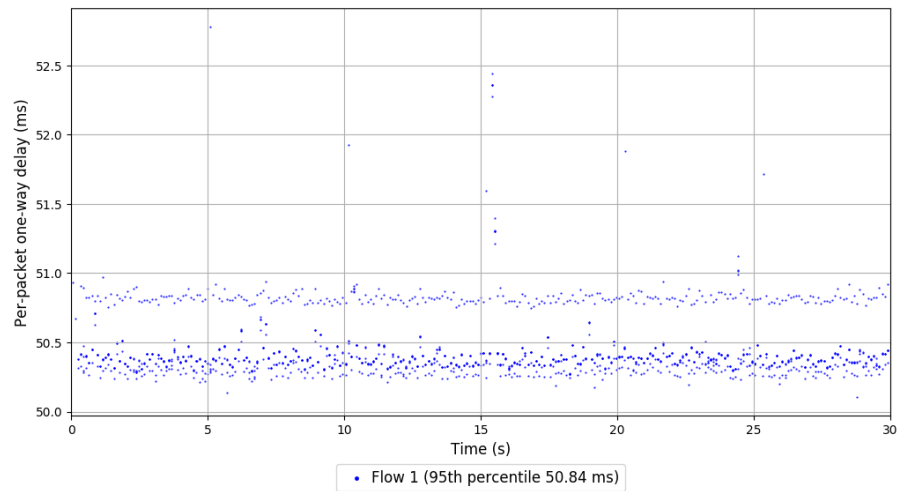
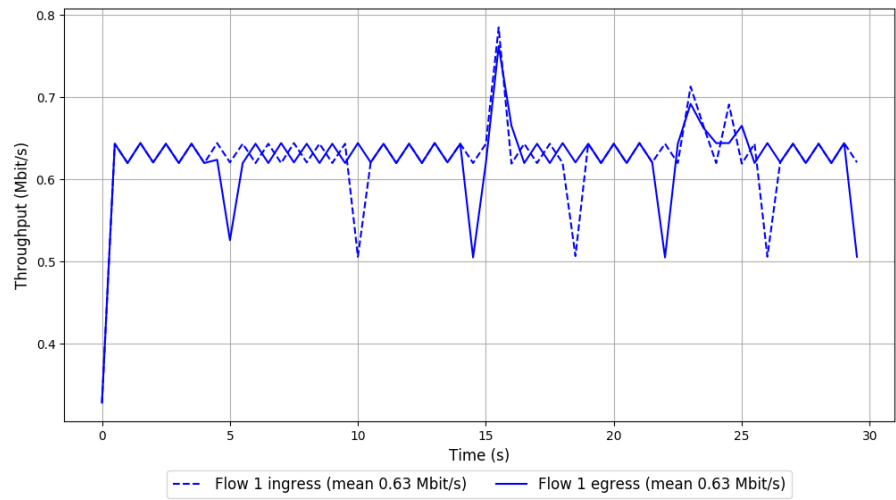
-- Flow 1:

Average throughput: 0.63 Mbit/s

95th percentile per-packet one-way delay: 50.844 ms

Loss rate: 0.31%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: 2018-03-20 13:37:51

End at: 2018-03-20 13:38:21

Below is generated by plot.py at 2018-03-20 18:45:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 551.37 Mbit/s

95th percentile per-packet one-way delay: 178.141 ms

Loss rate: 1.89%

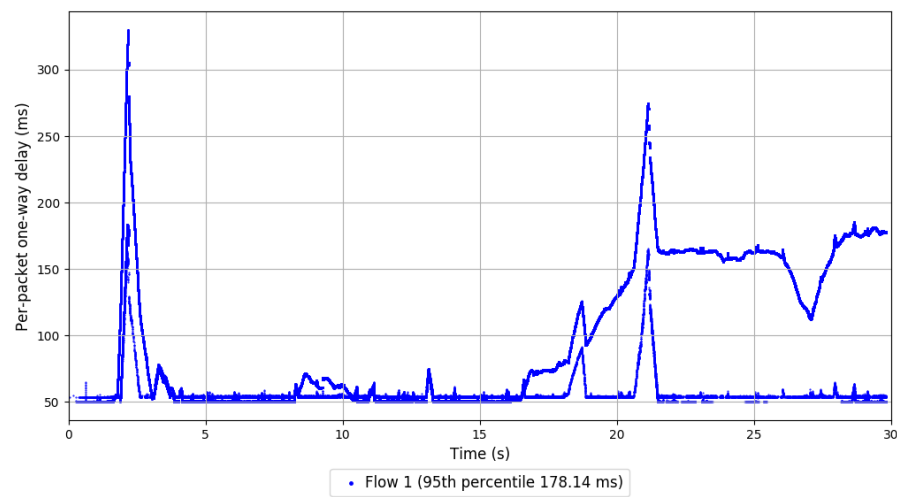
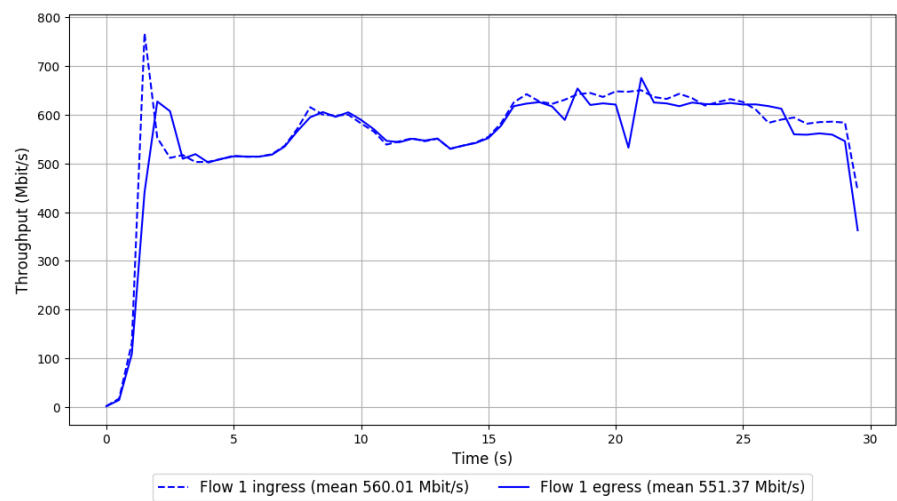
-- Flow 1:

Average throughput: 551.37 Mbit/s

95th percentile per-packet one-way delay: 178.141 ms

Loss rate: 1.89%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-03-20 13:52:15

End at: 2018-03-20 13:52:45

Below is generated by plot.py at 2018-03-20 18:45:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 476.53 Mbit/s

95th percentile per-packet one-way delay: 99.799 ms

Loss rate: 0.42%

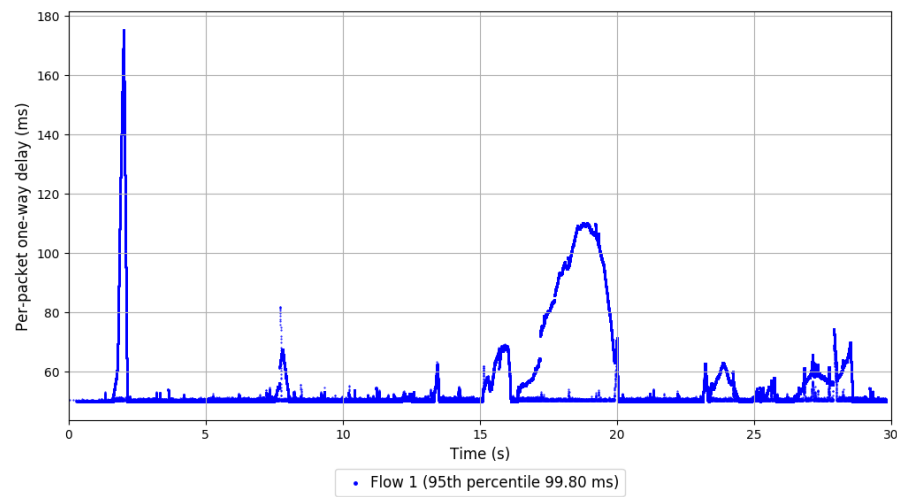
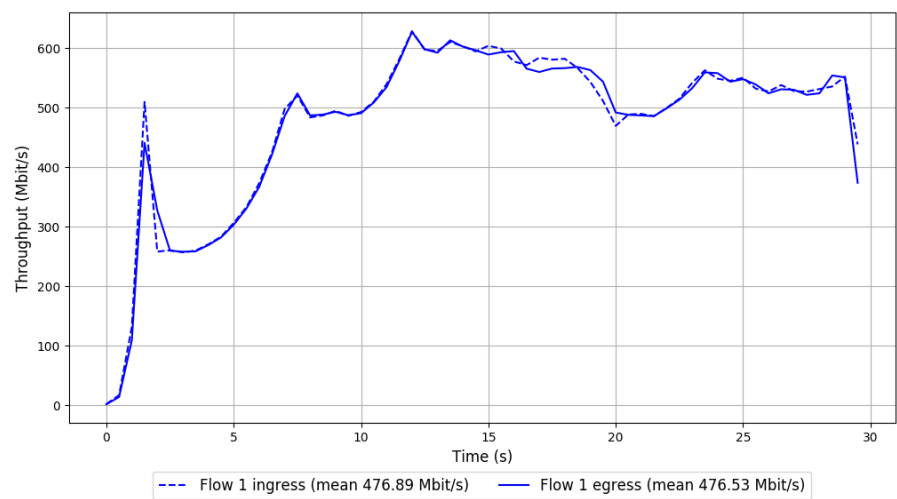
-- Flow 1:

Average throughput: 476.53 Mbit/s

95th percentile per-packet one-way delay: 99.799 ms

Loss rate: 0.42%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-03-20 14:06:53

End at: 2018-03-20 14:07:23

Below is generated by plot.py at 2018-03-20 18:45:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 509.33 Mbit/s

95th percentile per-packet one-way delay: 145.526 ms

Loss rate: 1.57%

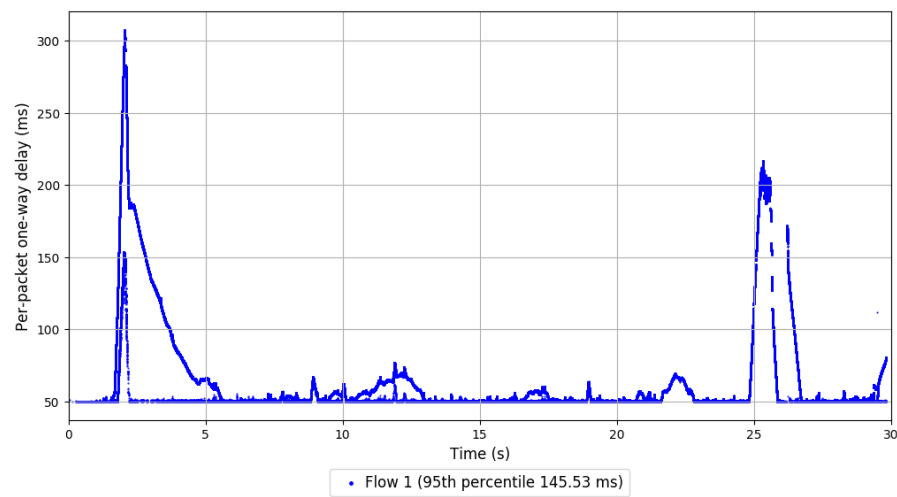
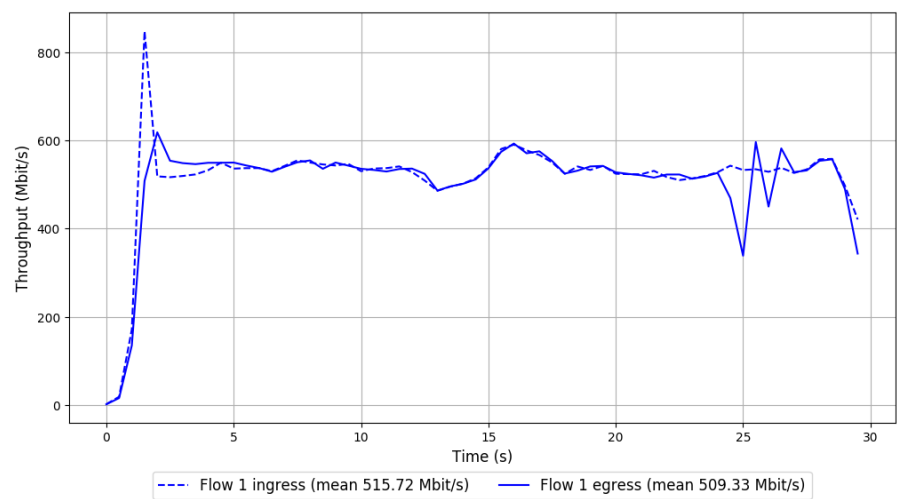
-- Flow 1:

Average throughput: 509.33 Mbit/s

95th percentile per-packet one-way delay: 145.526 ms

Loss rate: 1.57%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-03-20 14:21:13

End at: 2018-03-20 14:21:43

Below is generated by plot.py at 2018-03-20 18:45:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 522.27 Mbit/s

95th percentile per-packet one-way delay: 179.716 ms

Loss rate: 1.20%

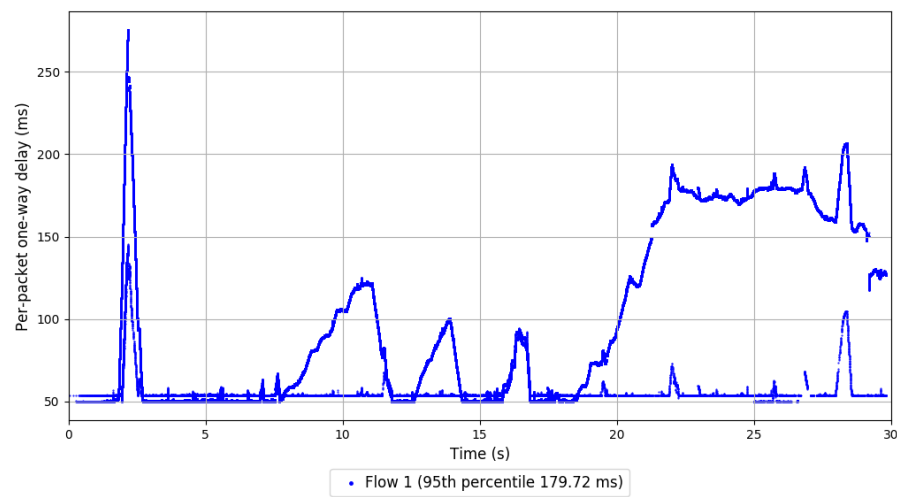
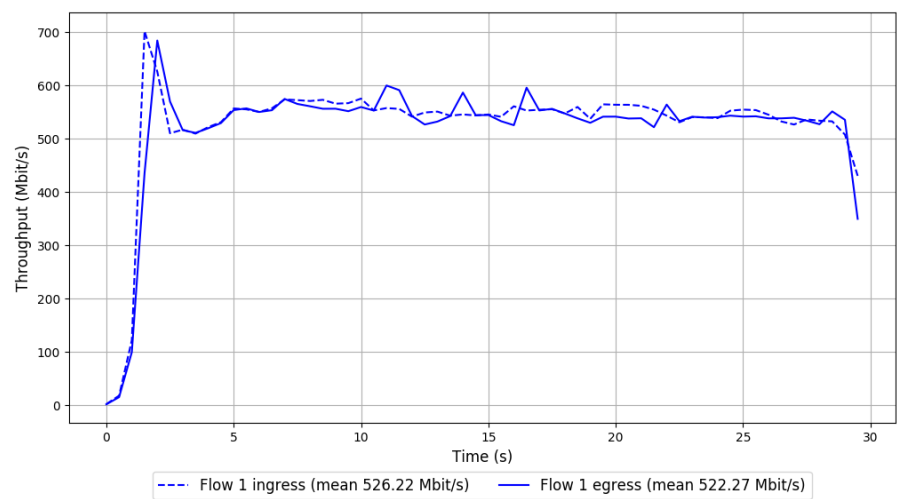
-- Flow 1:

Average throughput: 522.27 Mbit/s

95th percentile per-packet one-way delay: 179.716 ms

Loss rate: 1.20%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-03-20 14:35:43

End at: 2018-03-20 14:36:13

Below is generated by plot.py at 2018-03-20 18:45:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 513.45 Mbit/s

95th percentile per-packet one-way delay: 162.652 ms

Loss rate: 1.46%

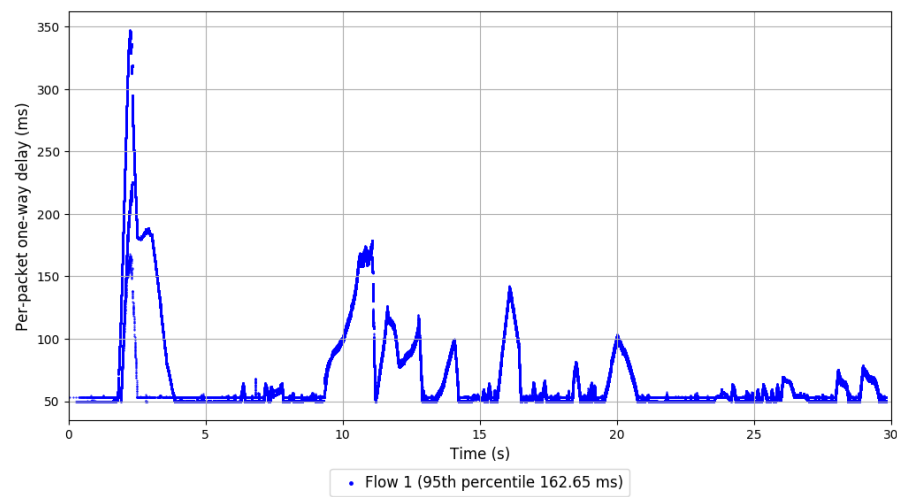
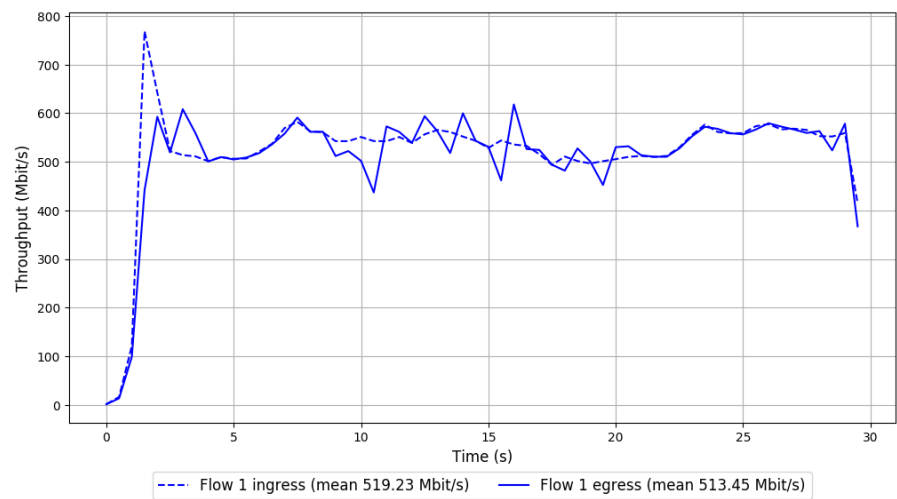
-- Flow 1:

Average throughput: 513.45 Mbit/s

95th percentile per-packet one-way delay: 162.652 ms

Loss rate: 1.46%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-03-20 14:50:07

End at: 2018-03-20 14:50:37

Below is generated by plot.py at 2018-03-20 18:45:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 497.48 Mbit/s

95th percentile per-packet one-way delay: 124.608 ms

Loss rate: 0.77%

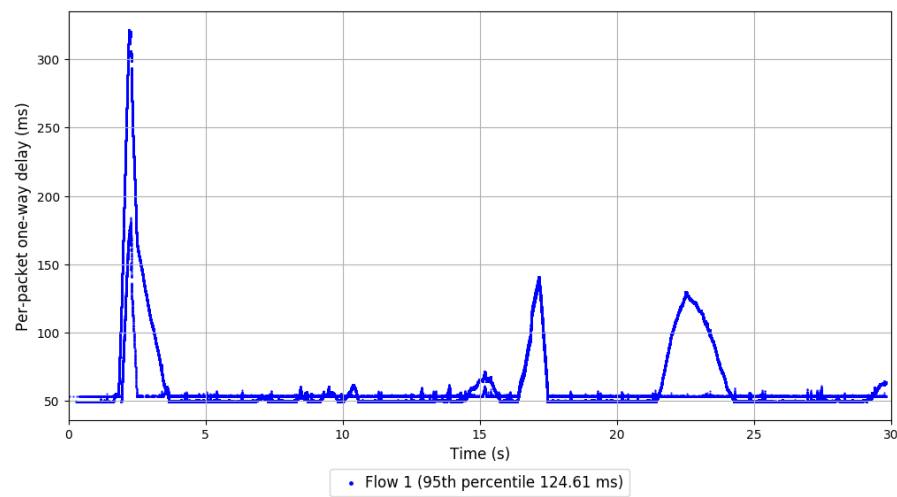
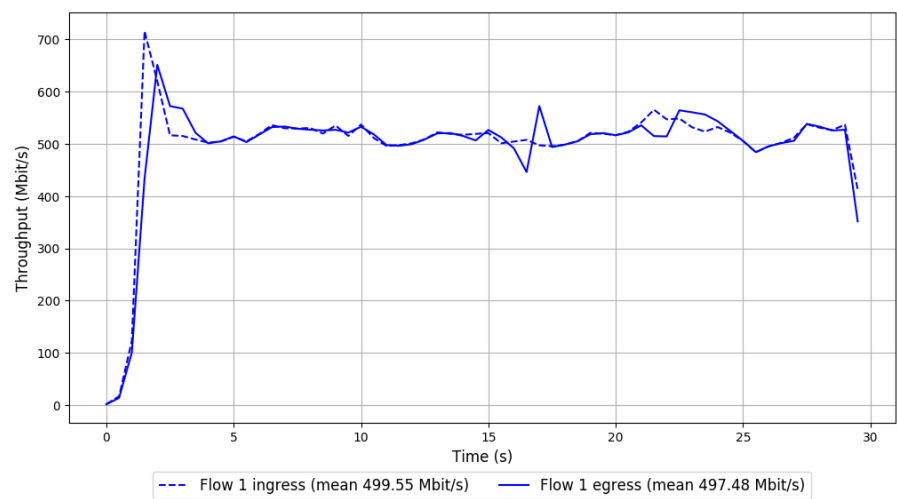
-- Flow 1:

Average throughput: 497.48 Mbit/s

95th percentile per-packet one-way delay: 124.608 ms

Loss rate: 0.77%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-03-20 15:04:46

End at: 2018-03-20 15:05:16

Below is generated by plot.py at 2018-03-20 18:46:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 535.13 Mbit/s

95th percentile per-packet one-way delay: 77.631 ms

Loss rate: 0.60%

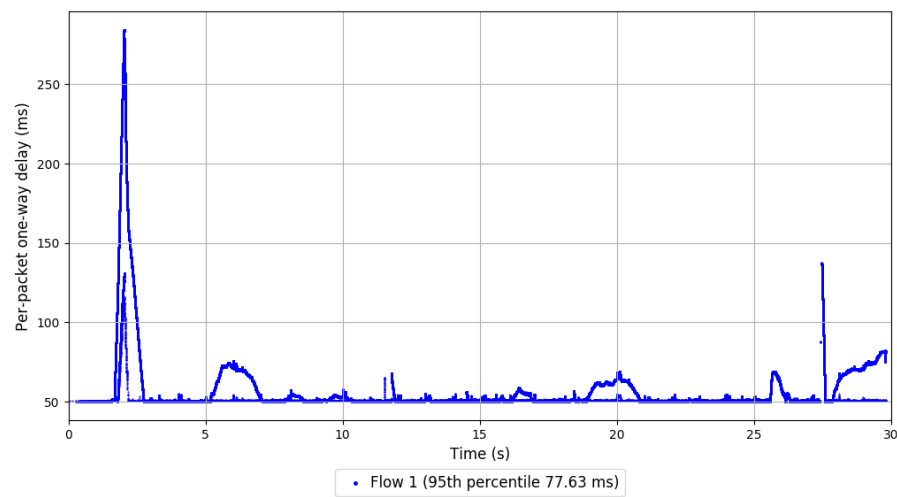
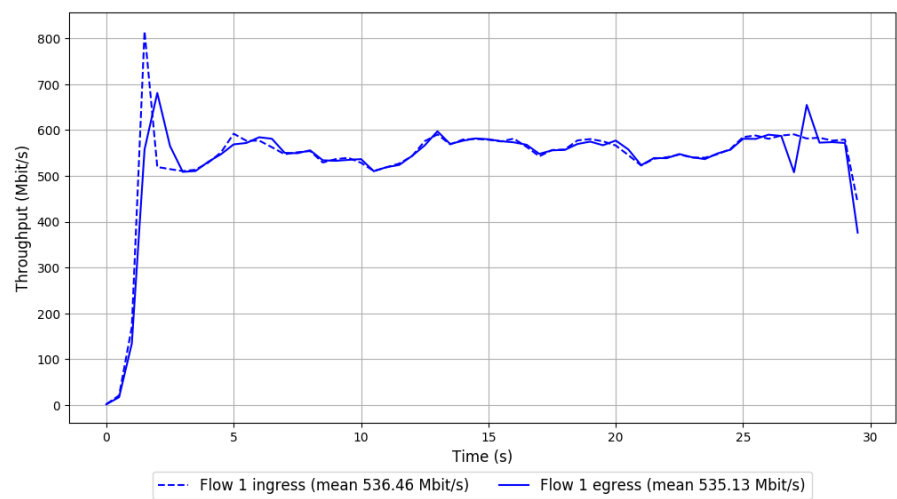
-- Flow 1:

Average throughput: 535.13 Mbit/s

95th percentile per-packet one-way delay: 77.631 ms

Loss rate: 0.60%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-03-20 15:19:15

End at: 2018-03-20 15:19:45

Below is generated by plot.py at 2018-03-20 18:46:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 514.83 Mbit/s

95th percentile per-packet one-way delay: 132.527 ms

Loss rate: 1.14%

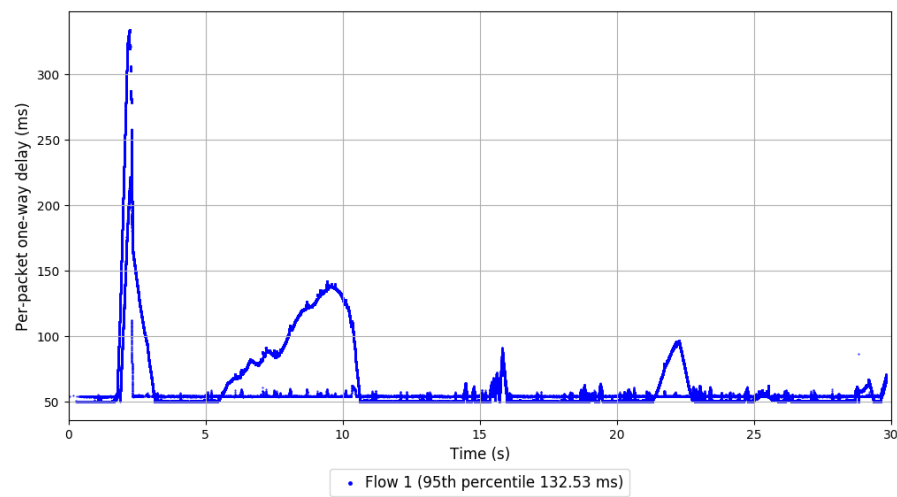
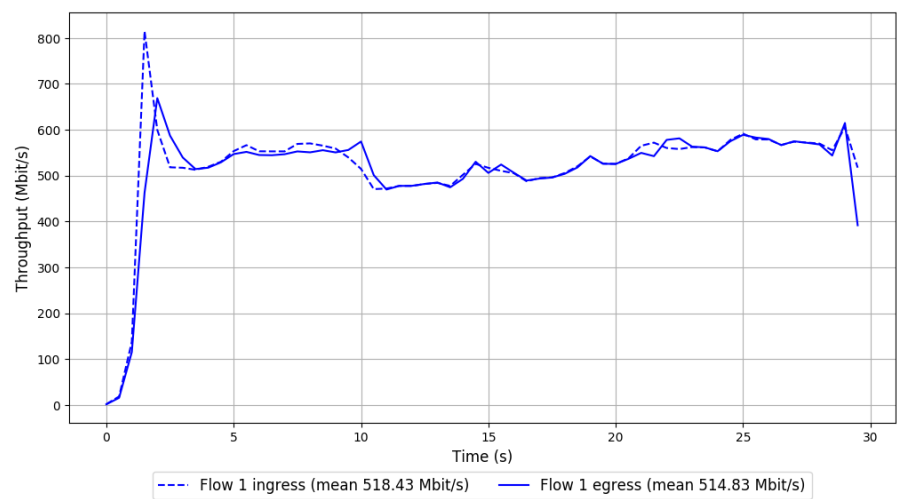
-- Flow 1:

Average throughput: 514.83 Mbit/s

95th percentile per-packet one-way delay: 132.527 ms

Loss rate: 1.14%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-03-20 15:33:47

End at: 2018-03-20 15:34:17

Below is generated by plot.py at 2018-03-20 18:53:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 491.66 Mbit/s

95th percentile per-packet one-way delay: 164.847 ms

Loss rate: 1.01%

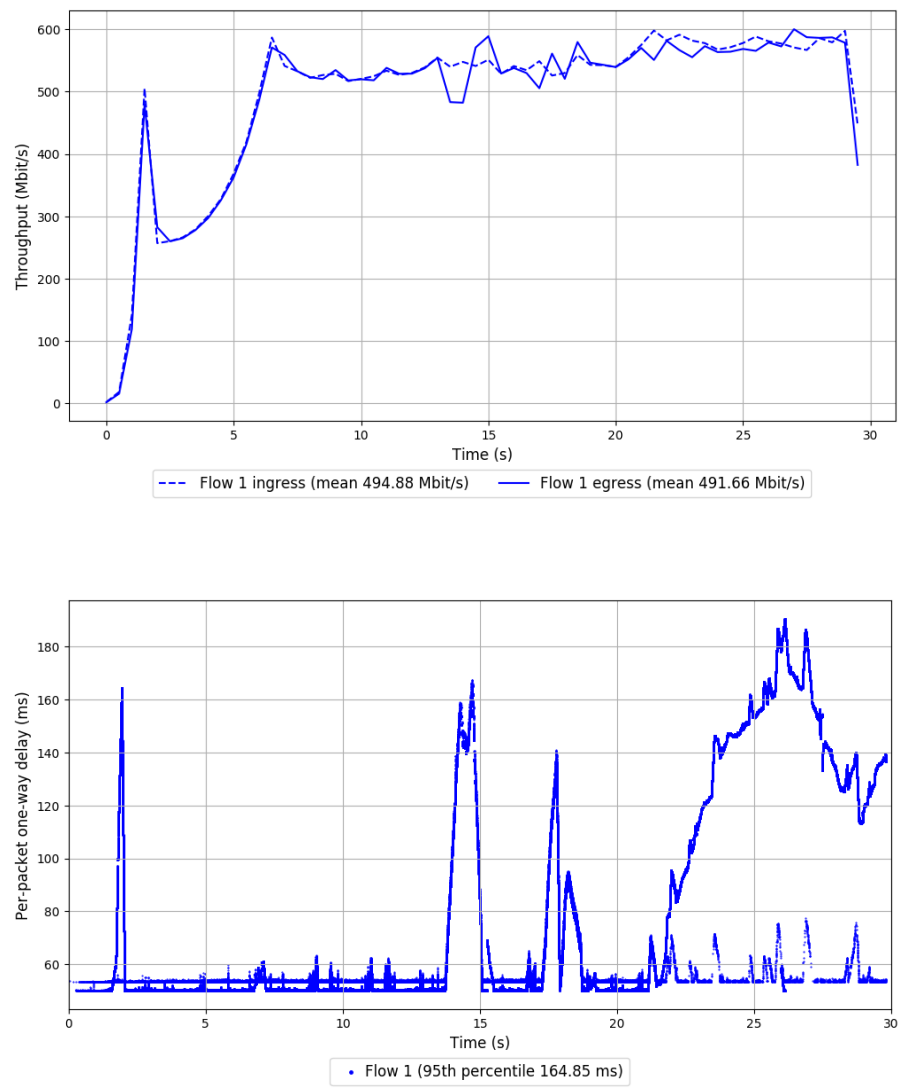
-- Flow 1:

Average throughput: 491.66 Mbit/s

95th percentile per-packet one-way delay: 164.847 ms

Loss rate: 1.01%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-03-20 15:48:04

End at: 2018-03-20 15:48:34

Below is generated by plot.py at 2018-03-20 18:55:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 533.83 Mbit/s

95th percentile per-packet one-way delay: 202.903 ms

Loss rate: 2.88%

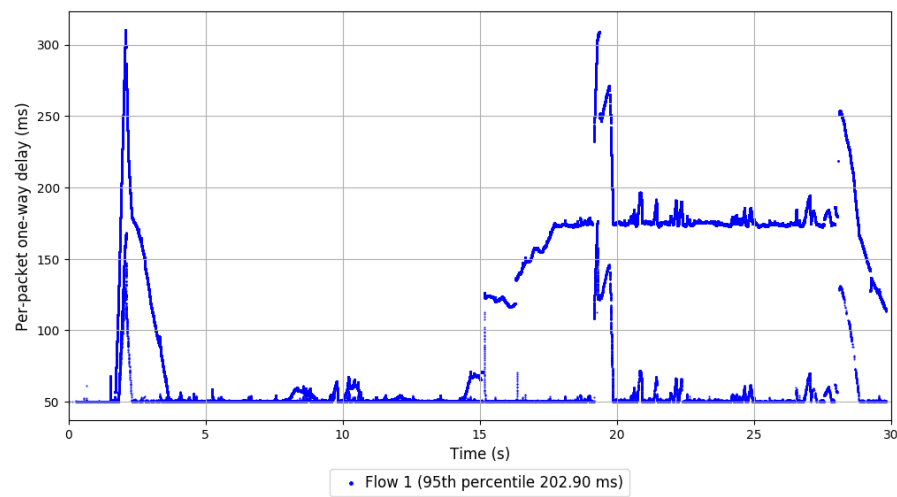
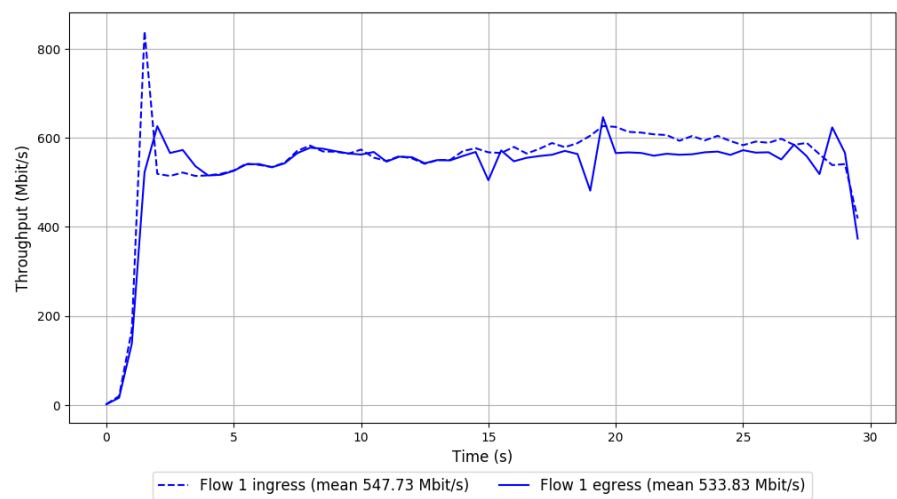
-- Flow 1:

Average throughput: 533.83 Mbit/s

95th percentile per-packet one-way delay: 202.903 ms

Loss rate: 2.88%

Run 10: Report of PCC — Data Link

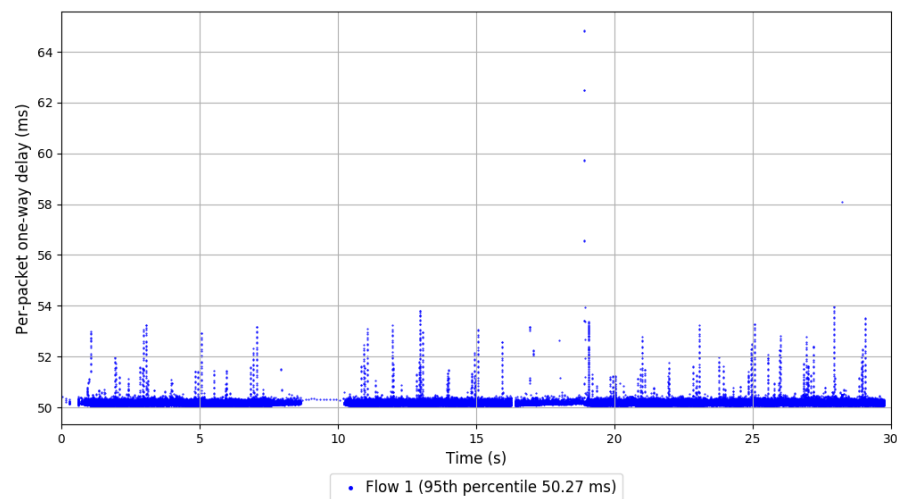
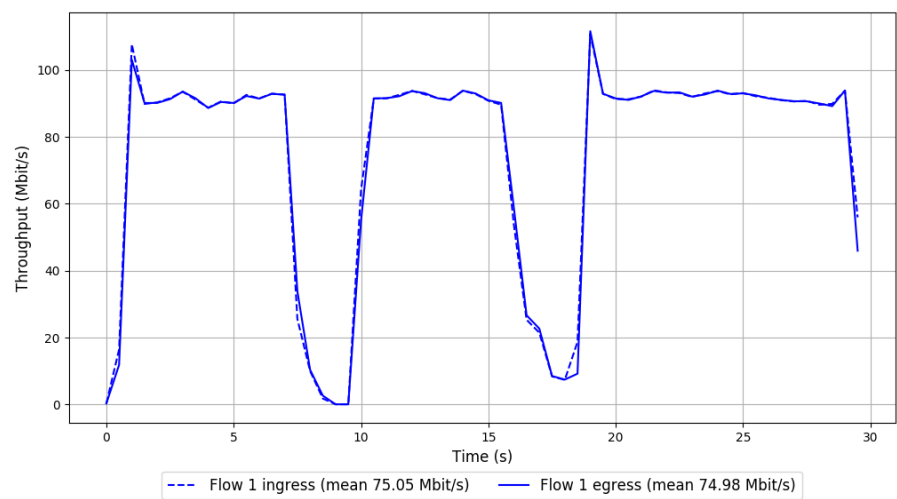


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-03-20 13:40:33
End at: 2018-03-20 13:41:03

# Below is generated by plot.py at 2018-03-20 18:55:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.98 Mbit/s
95th percentile per-packet one-way delay: 50.265 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 74.98 Mbit/s
95th percentile per-packet one-way delay: 50.265 ms
Loss rate: 0.44%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-03-20 13:54:55

End at: 2018-03-20 13:55:25

Below is generated by plot.py at 2018-03-20 18:55:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.61 Mbit/s

95th percentile per-packet one-way delay: 50.019 ms

Loss rate: 0.49%

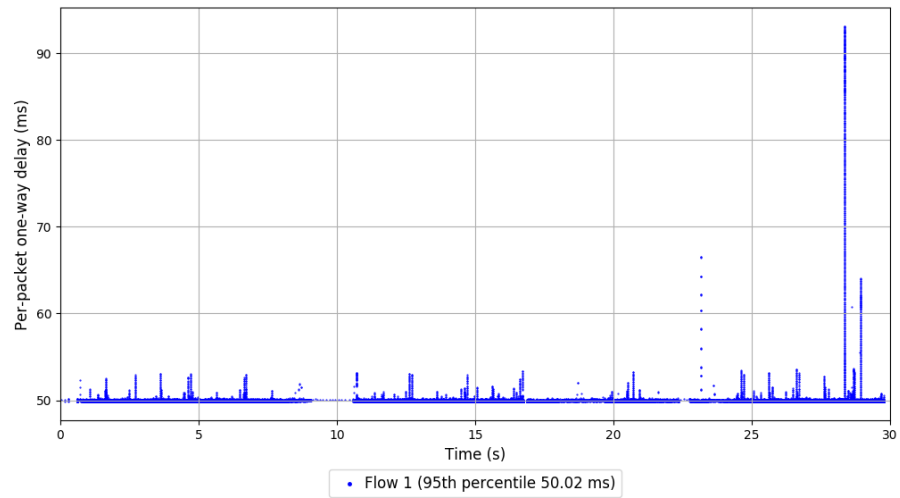
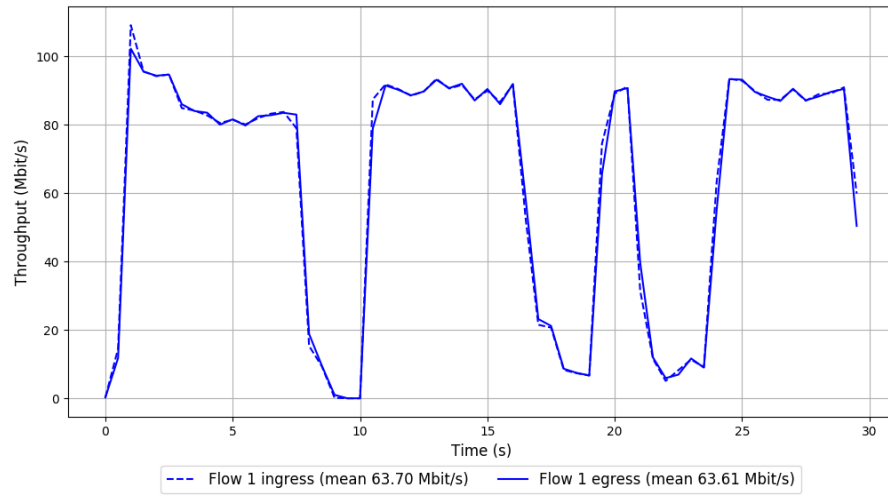
-- Flow 1:

Average throughput: 63.61 Mbit/s

95th percentile per-packet one-way delay: 50.019 ms

Loss rate: 0.49%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-03-20 14:09:25

End at: 2018-03-20 14:09:55

Below is generated by plot.py at 2018-03-20 18:55:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.41 Mbit/s

95th percentile per-packet one-way delay: 53.684 ms

Loss rate: 0.51%

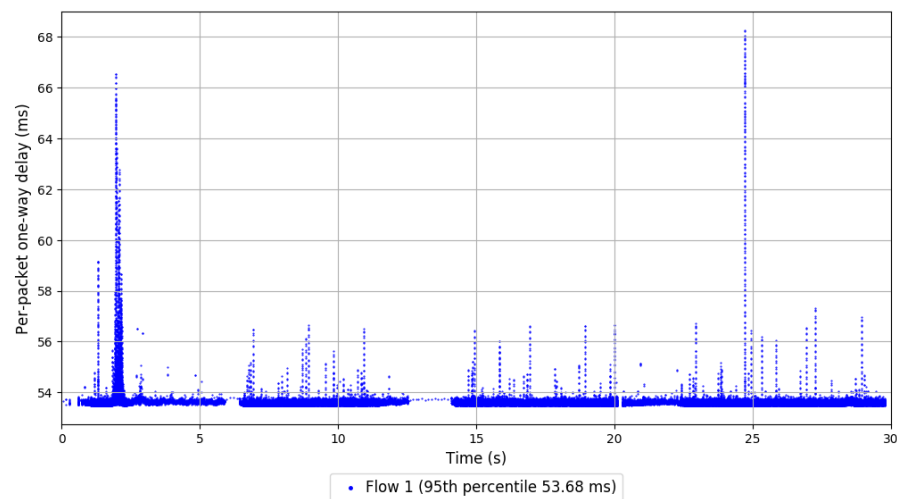
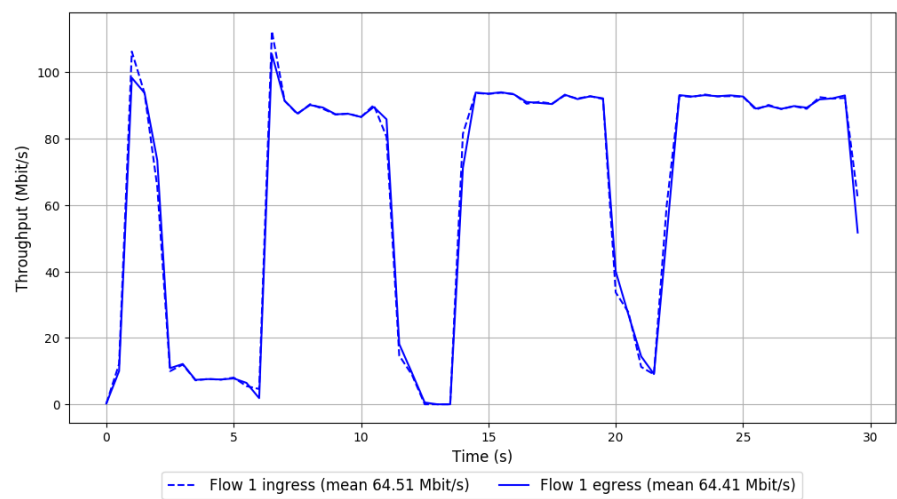
-- Flow 1:

Average throughput: 64.41 Mbit/s

95th percentile per-packet one-way delay: 53.684 ms

Loss rate: 0.51%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-03-20 14:23:50

End at: 2018-03-20 14:24:20

Below is generated by plot.py at 2018-03-20 18:55:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.13 Mbit/s

95th percentile per-packet one-way delay: 50.152 ms

Loss rate: 0.43%

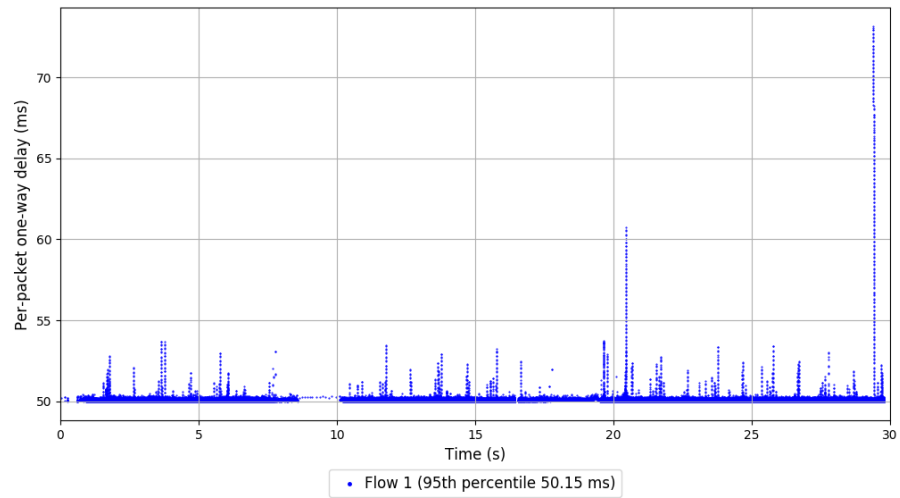
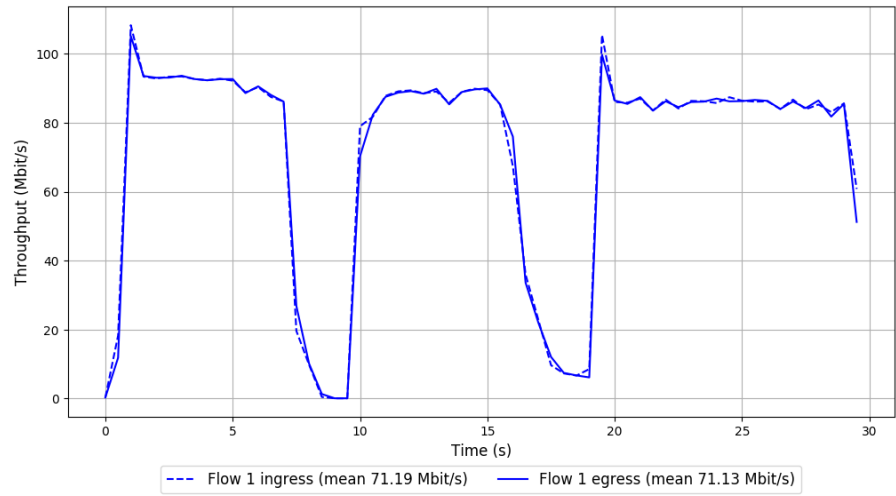
-- Flow 1:

Average throughput: 71.13 Mbit/s

95th percentile per-packet one-way delay: 50.152 ms

Loss rate: 0.43%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-03-20 14:38:22

End at: 2018-03-20 14:38:52

Below is generated by plot.py at 2018-03-20 18:55:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.30 Mbit/s

95th percentile per-packet one-way delay: 53.553 ms

Loss rate: 0.44%

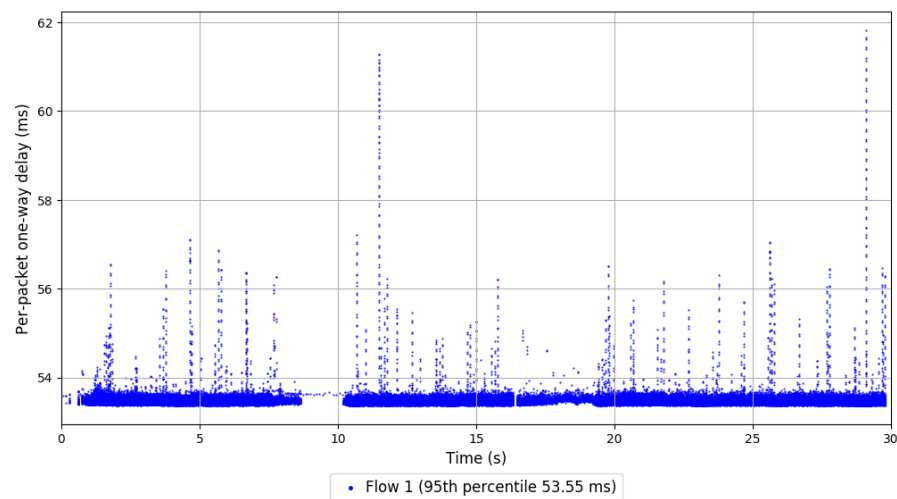
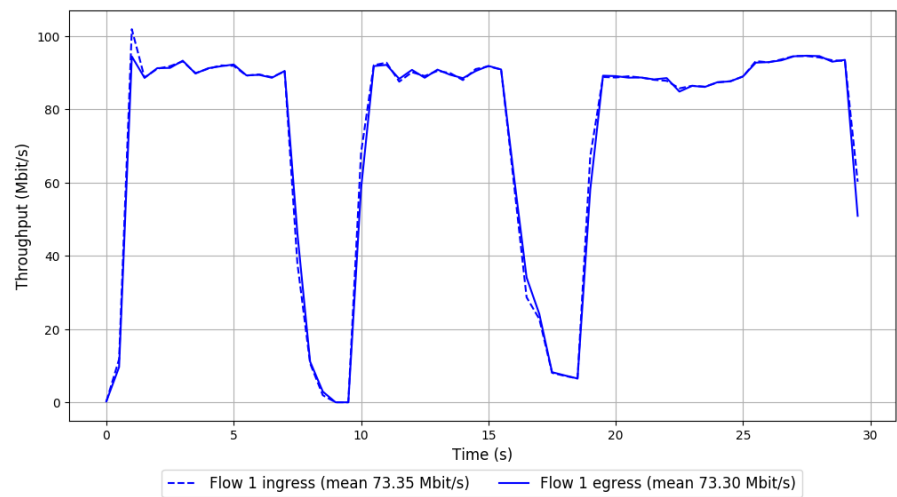
-- Flow 1:

Average throughput: 73.30 Mbit/s

95th percentile per-packet one-way delay: 53.553 ms

Loss rate: 0.44%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-03-20 14:52:43

End at: 2018-03-20 14:53:13

Below is generated by plot.py at 2018-03-20 18:55:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.04 Mbit/s

95th percentile per-packet one-way delay: 49.800 ms

Loss rate: 0.40%

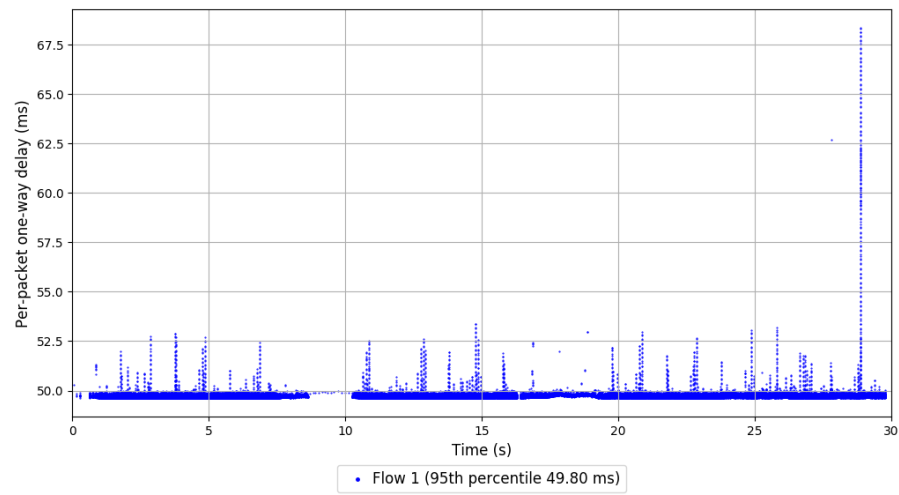
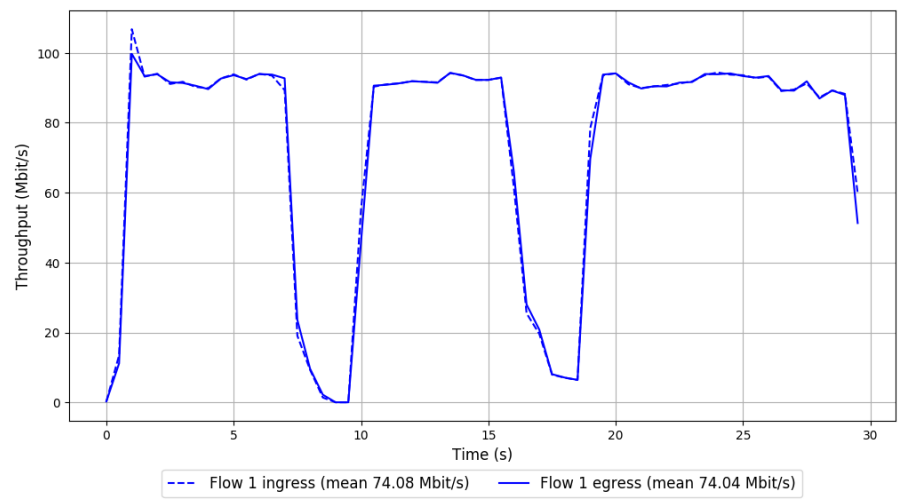
-- Flow 1:

Average throughput: 74.04 Mbit/s

95th percentile per-packet one-way delay: 49.800 ms

Loss rate: 0.40%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-03-20 15:07:20

End at: 2018-03-20 15:07:50

Below is generated by plot.py at 2018-03-20 18:55:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.01 Mbit/s

95th percentile per-packet one-way delay: 53.661 ms

Loss rate: 0.43%

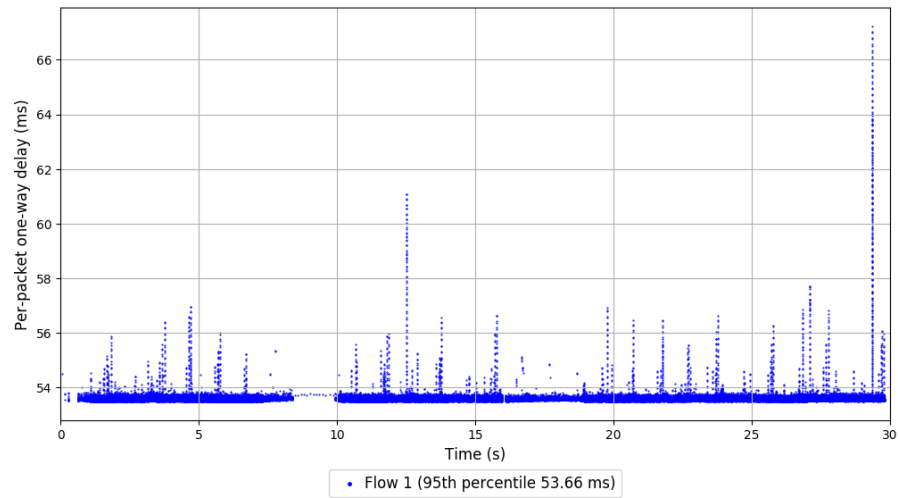
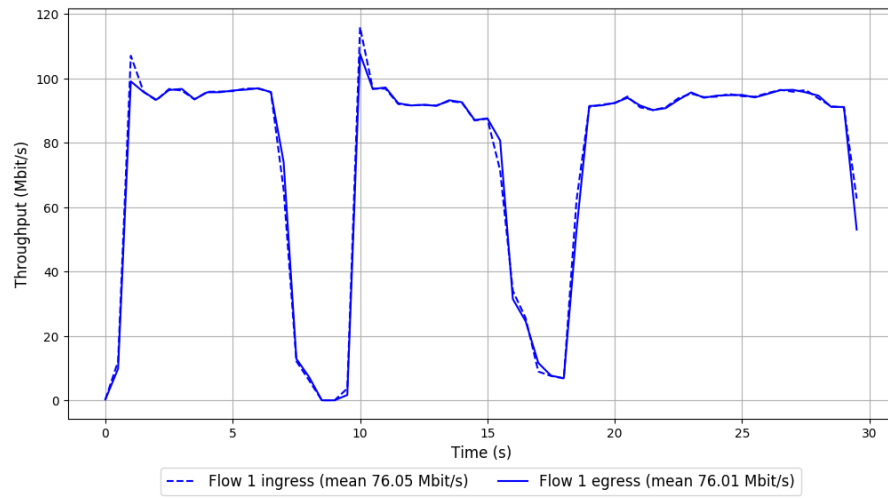
-- Flow 1:

Average throughput: 76.01 Mbit/s

95th percentile per-packet one-way delay: 53.661 ms

Loss rate: 0.43%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-03-20 15:21:53

End at: 2018-03-20 15:22:23

Below is generated by plot.py at 2018-03-20 18:55:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.23 Mbit/s

95th percentile per-packet one-way delay: 53.244 ms

Loss rate: 0.38%

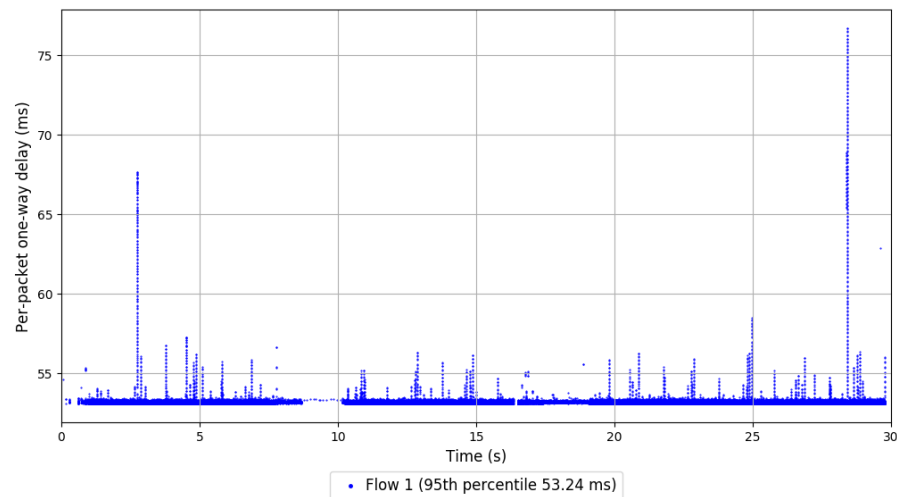
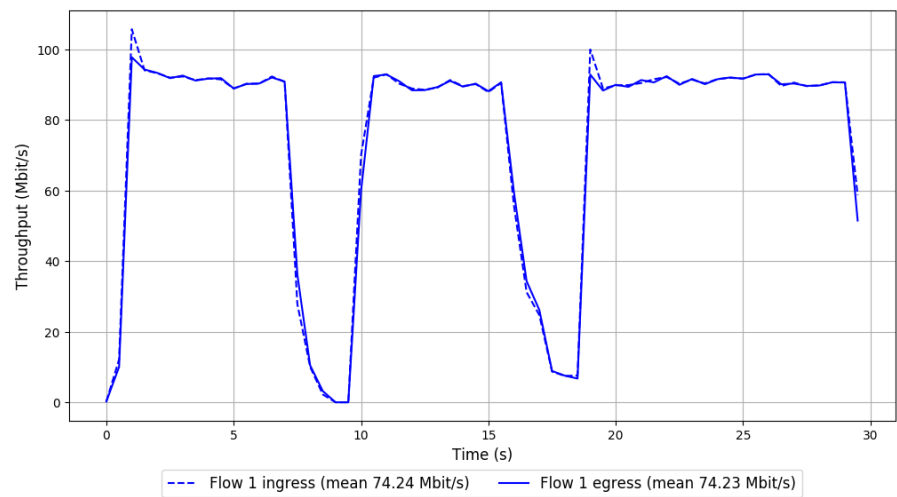
-- Flow 1:

Average throughput: 74.23 Mbit/s

95th percentile per-packet one-way delay: 53.244 ms

Loss rate: 0.38%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-03-20 15:36:24

End at: 2018-03-20 15:36:54

Below is generated by plot.py at 2018-03-20 18:55:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.68 Mbit/s

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

Loss rate: 0.45%

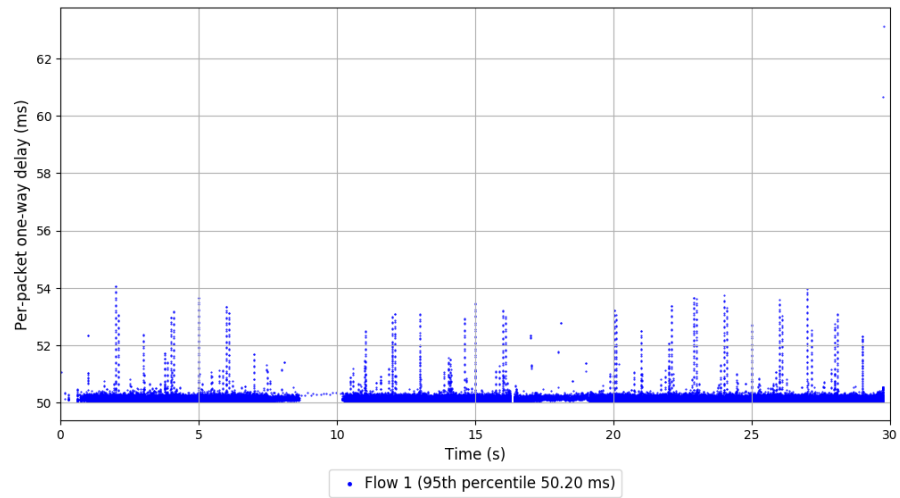
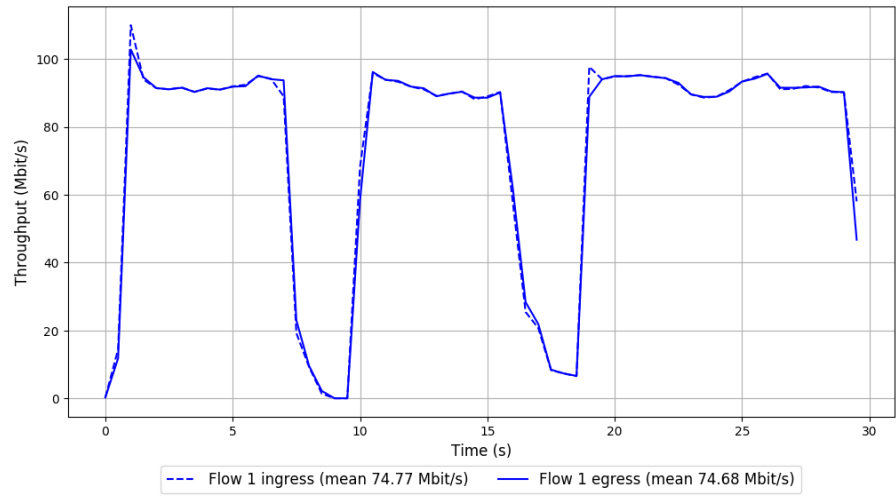
-- Flow 1:

Average throughput: 74.68 Mbit/s

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

Loss rate: 0.45%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-03-20 15:50:49

End at: 2018-03-20 15:51:19

Below is generated by plot.py at 2018-03-20 18:55:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.67 Mbit/s

95th percentile per-packet one-way delay: 50.654 ms

Loss rate: 0.43%

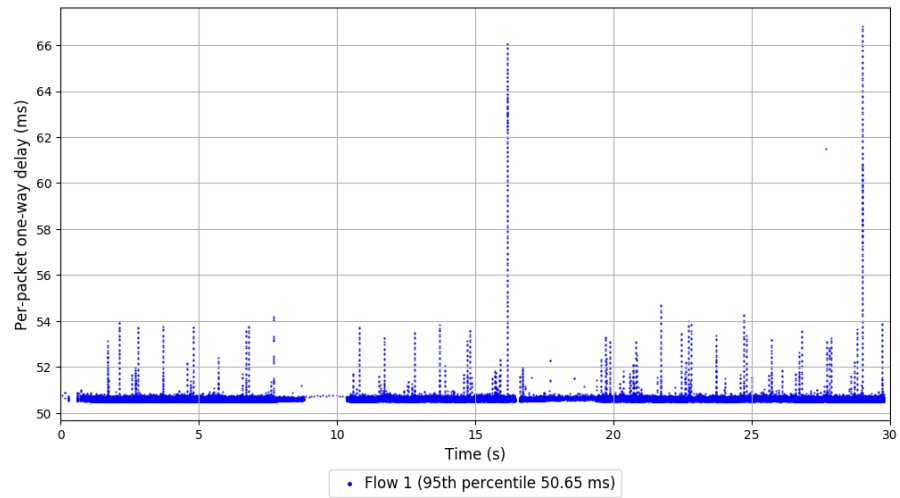
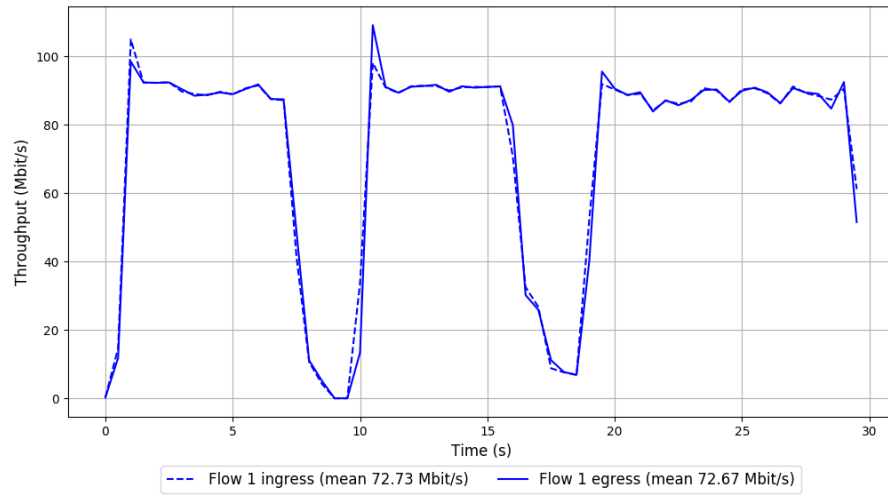
-- Flow 1:

Average throughput: 72.67 Mbit/s

95th percentile per-packet one-way delay: 50.654 ms

Loss rate: 0.43%

Run 10: Report of QUIC Cubic — Data Link

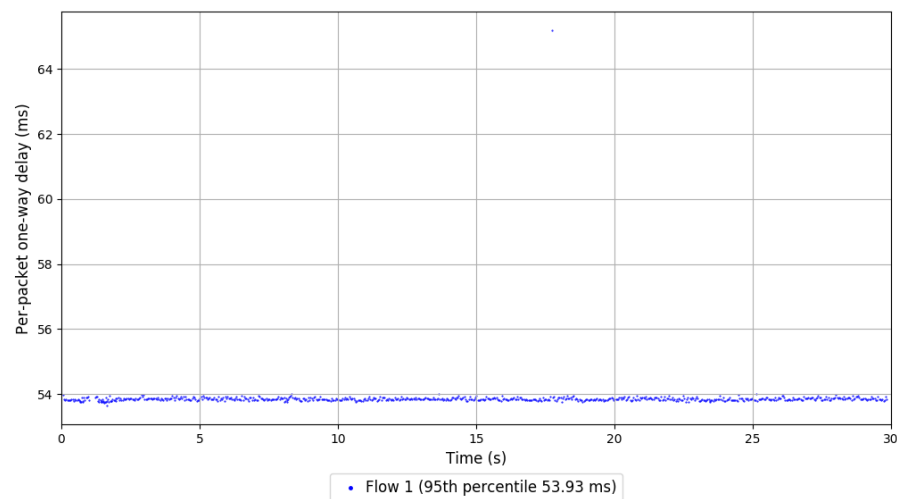
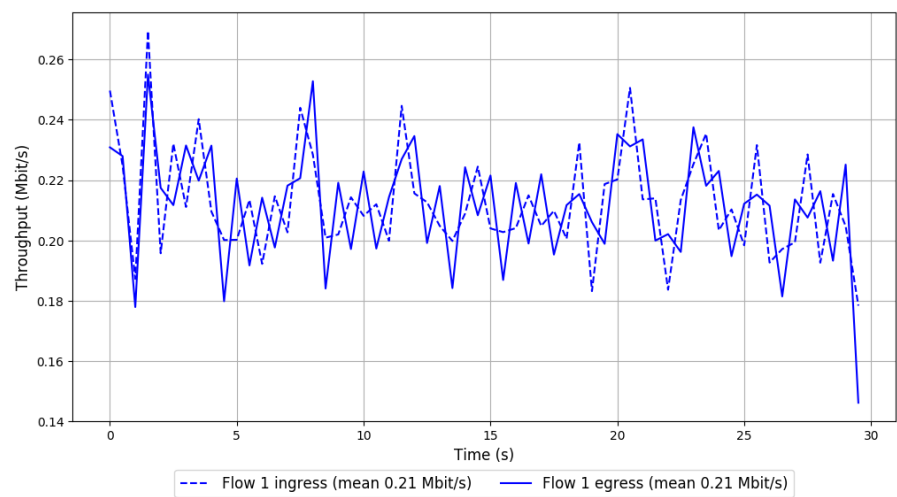


```
Run 1: Statistics of SCReAM

Start at: 2018-03-20 13:36:33
End at: 2018-03-20 13:37:03

# Below is generated by plot.py at 2018-03-20 18:55:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.933 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.933 ms
Loss rate: 0.38%
```

Run 1: Report of SReAM — Data Link

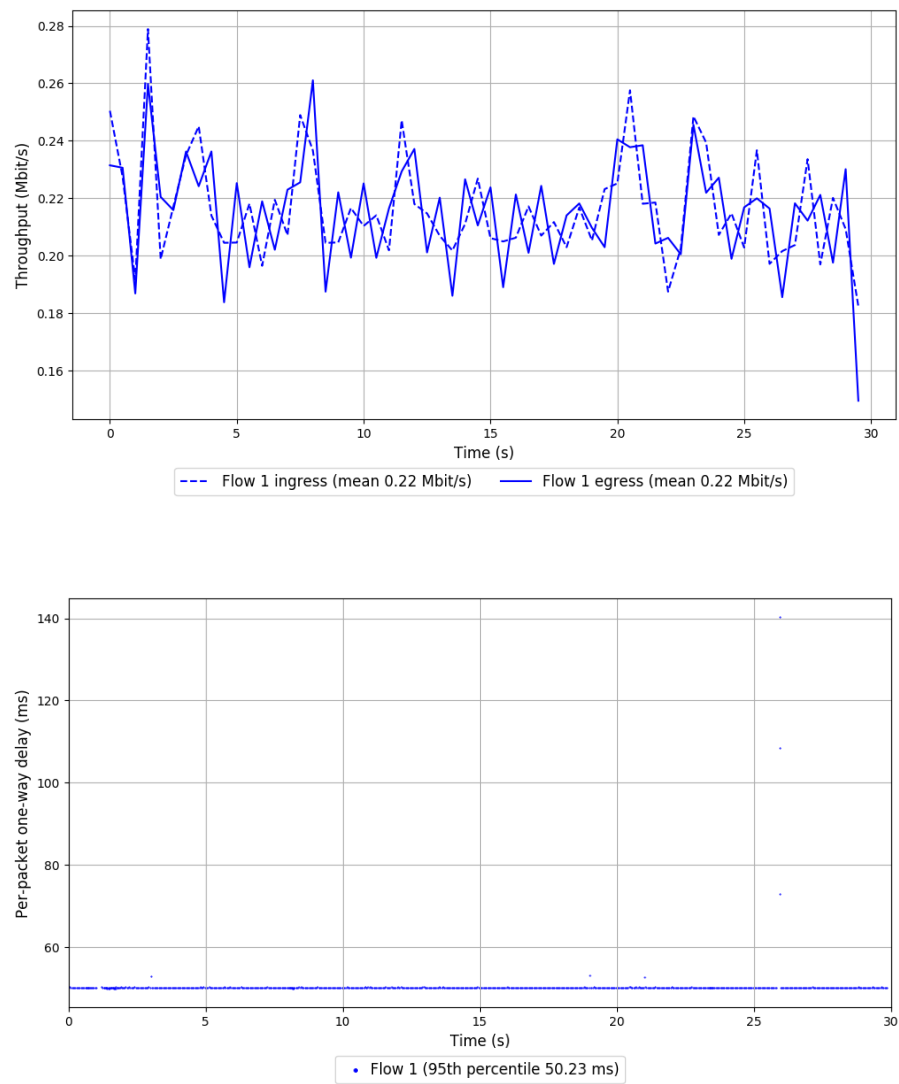


```
Run 2: Statistics of SCReAM

Start at: 2018-03-20 13:50:55
End at: 2018-03-20 13:51:25

# Below is generated by plot.py at 2018-03-20 18:55:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.231 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.231 ms
Loss rate: 0.38%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-03-20 14:05:32

End at: 2018-03-20 14:06:02

Below is generated by plot.py at 2018-03-20 18:55:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.186 ms

Loss rate: 0.38%

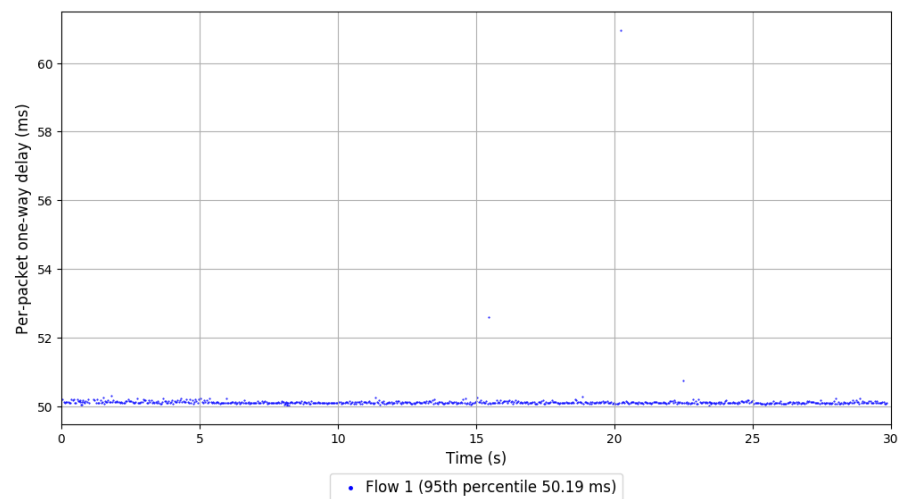
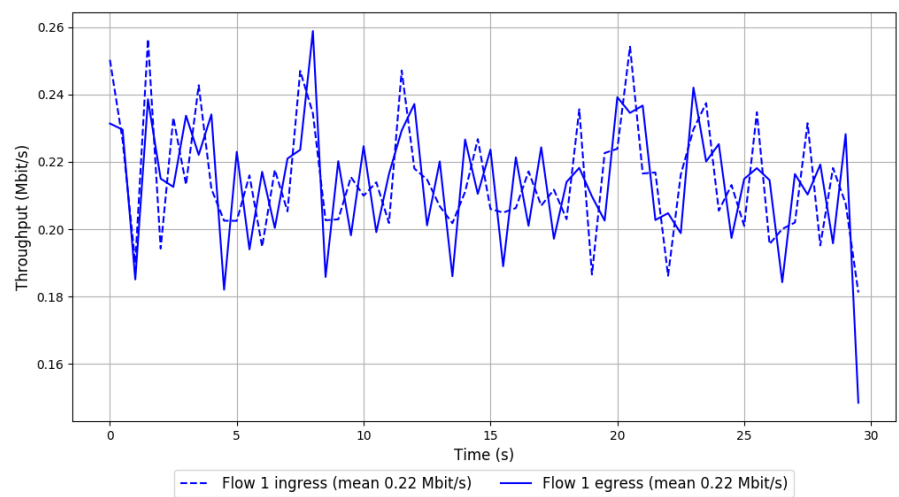
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.186 ms

Loss rate: 0.38%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-03-20 14:19:56

End at: 2018-03-20 14:20:26

Below is generated by plot.py at 2018-03-20 18:55:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.430 ms

Loss rate: 0.38%

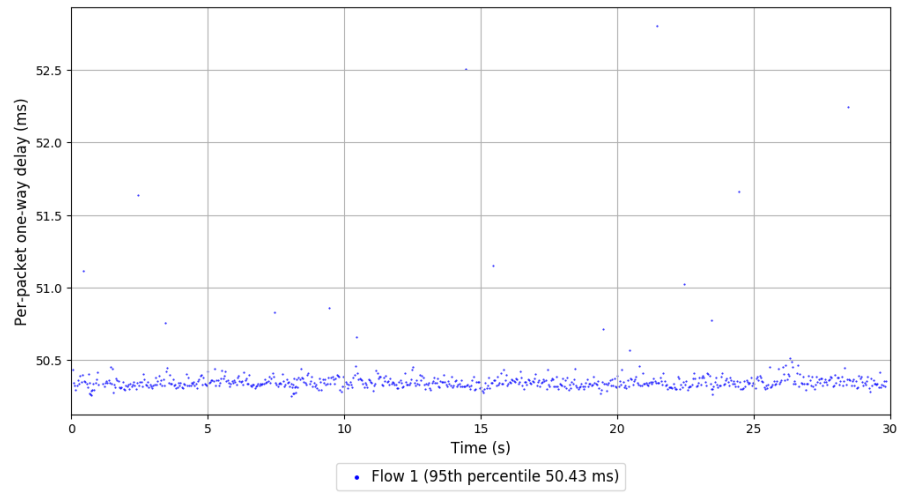
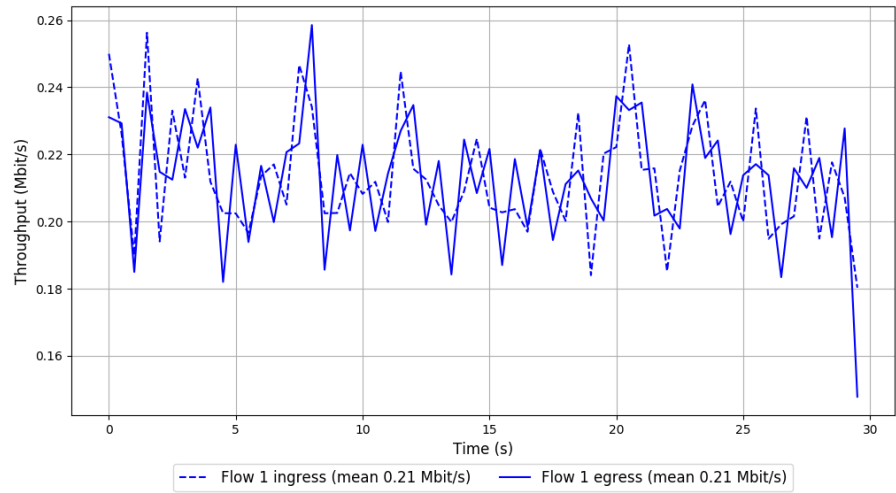
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.430 ms

Loss rate: 0.38%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-03-20 14:34:26

End at: 2018-03-20 14:34:56

Below is generated by plot.py at 2018-03-20 18:55:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.625 ms

Loss rate: 0.38%

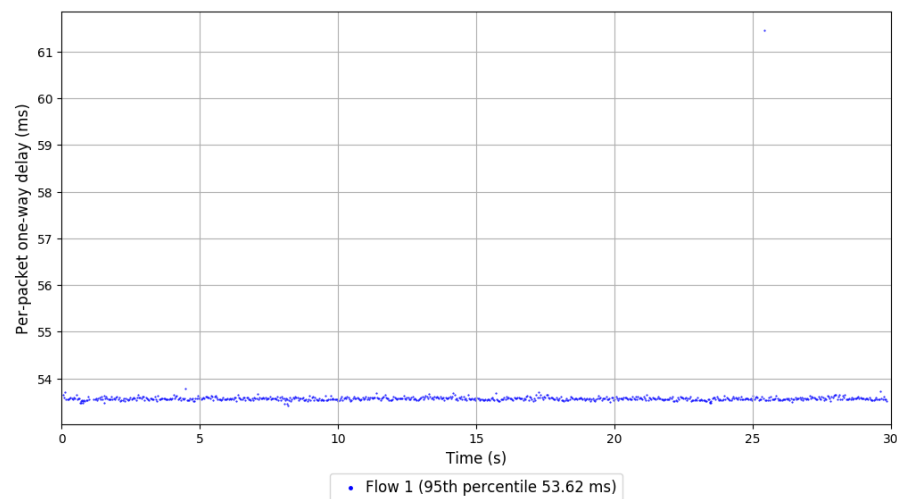
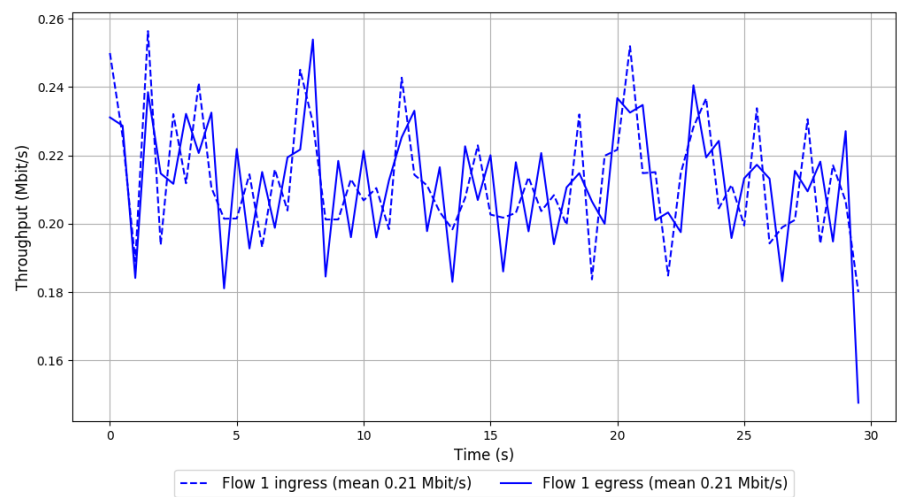
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.625 ms

Loss rate: 0.38%

Run 5: Report of SCSReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-03-20 14:48:44

End at: 2018-03-20 14:49:14

Below is generated by plot.py at 2018-03-20 18:55:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.520 ms

Loss rate: 0.38%

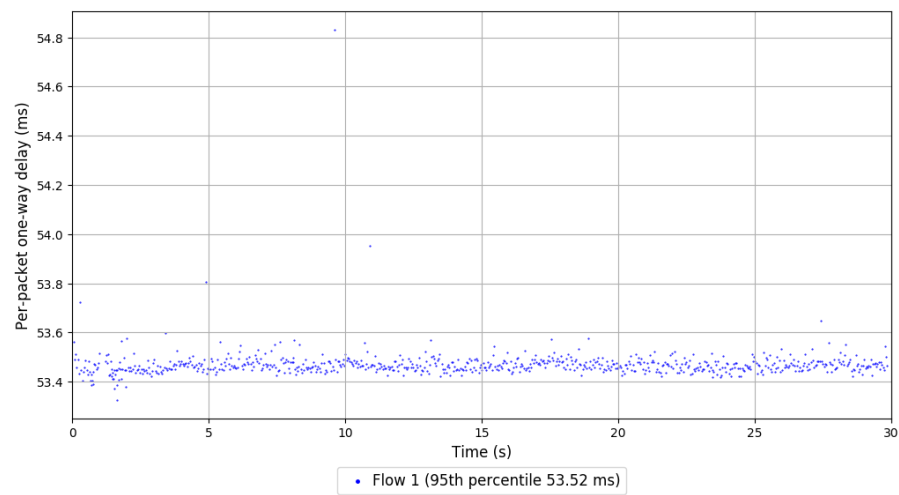
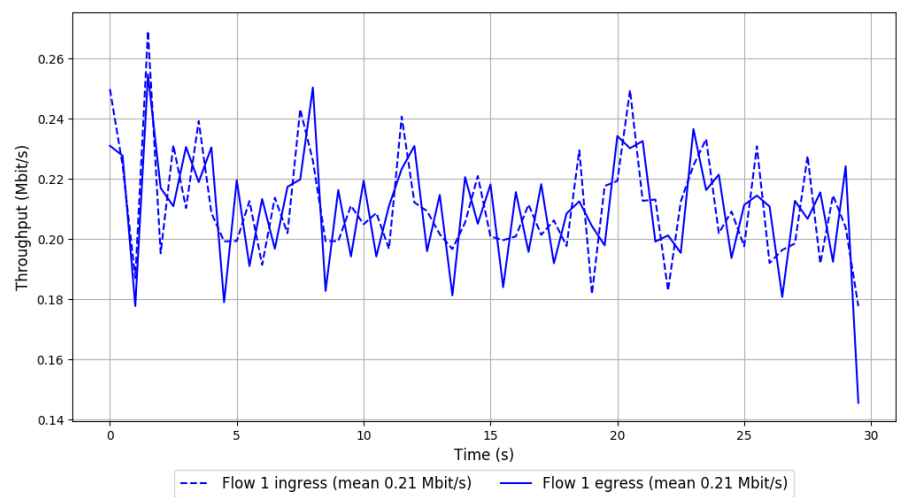
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.520 ms

Loss rate: 0.38%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-03-20 15:03:22

End at: 2018-03-20 15:03:52

Below is generated by plot.py at 2018-03-20 18:55:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.323 ms

Loss rate: 0.38%

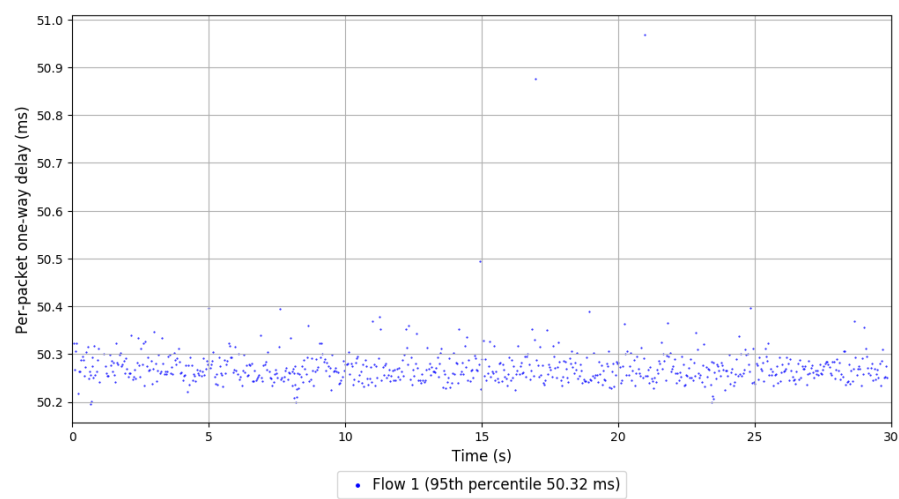
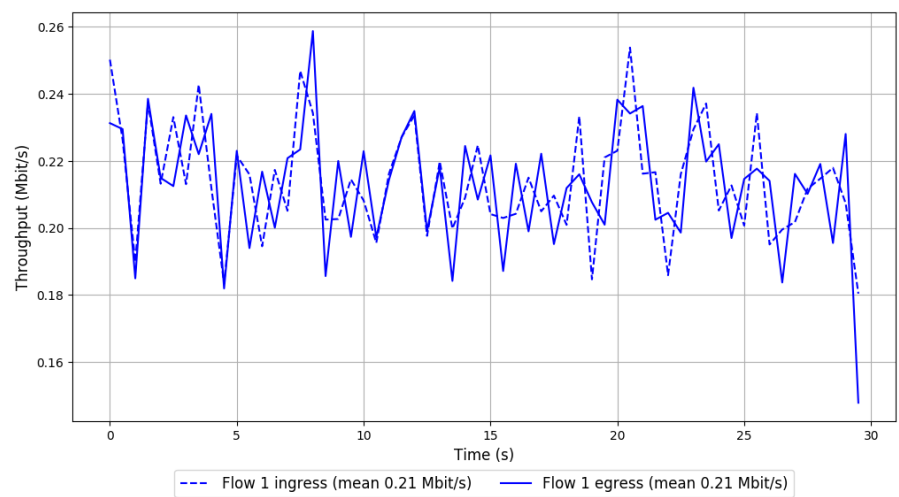
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.323 ms

Loss rate: 0.38%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-03-20 15:17:57

End at: 2018-03-20 15:18:27

Below is generated by plot.py at 2018-03-20 18:55:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.311 ms

Loss rate: 0.26%

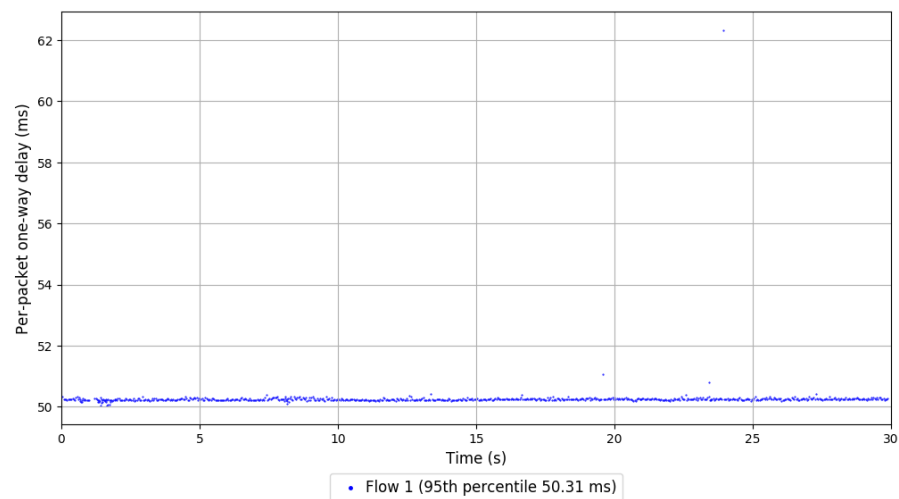
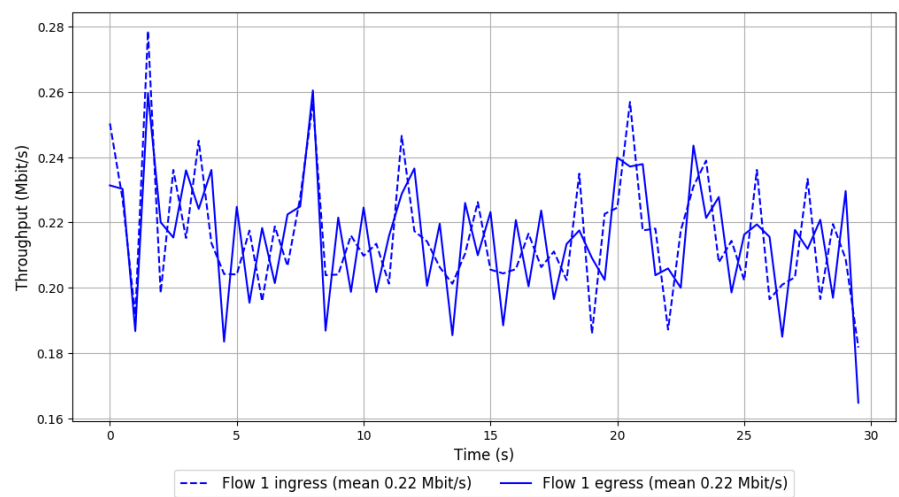
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.311 ms

Loss rate: 0.26%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-03-20 15:32:27

End at: 2018-03-20 15:32:57

Below is generated by plot.py at 2018-03-20 18:55:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.953 ms

Loss rate: 0.38%

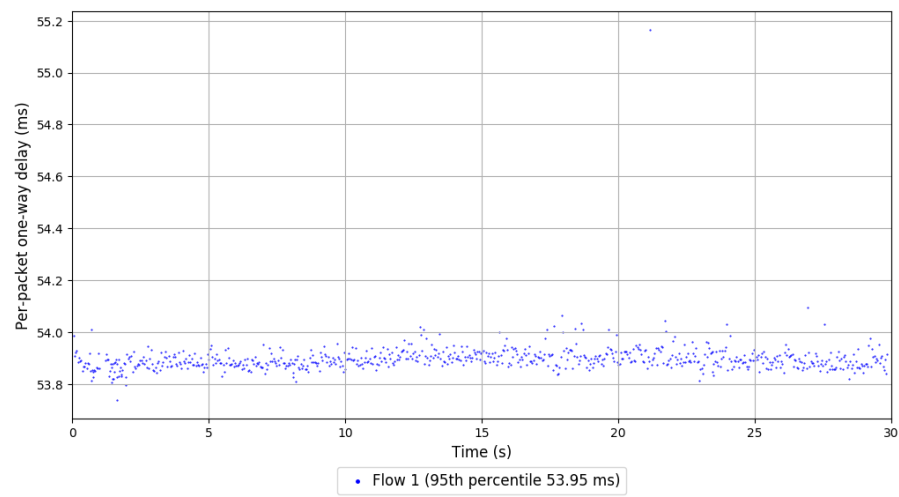
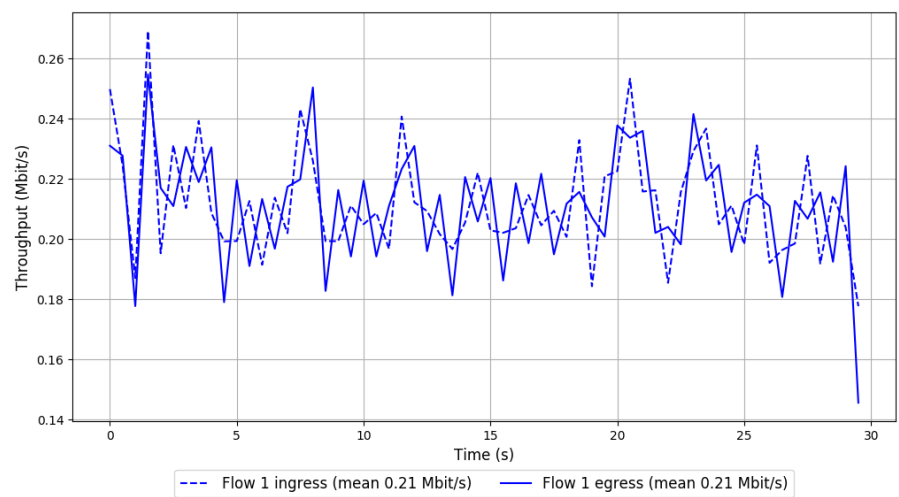
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.953 ms

Loss rate: 0.38%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-03-20 15:46:45

End at: 2018-03-20 15:47:15

Below is generated by plot.py at 2018-03-20 18:55:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.632 ms

Loss rate: 0.38%

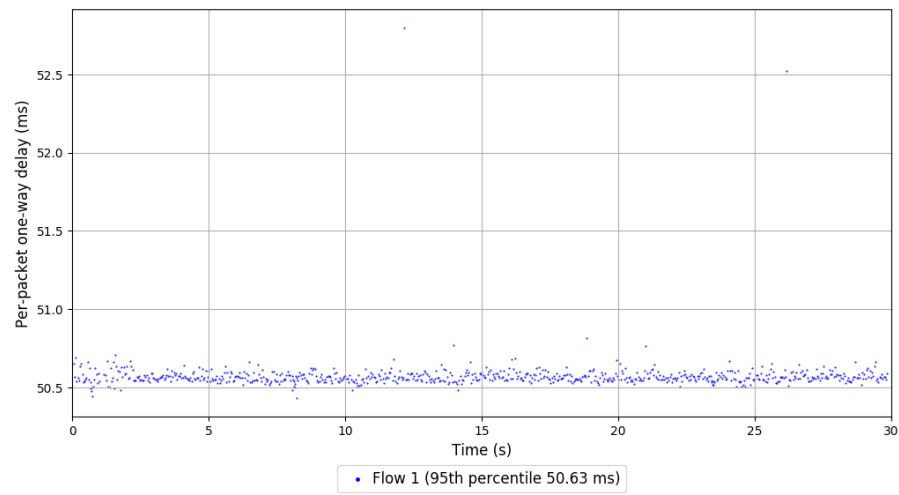
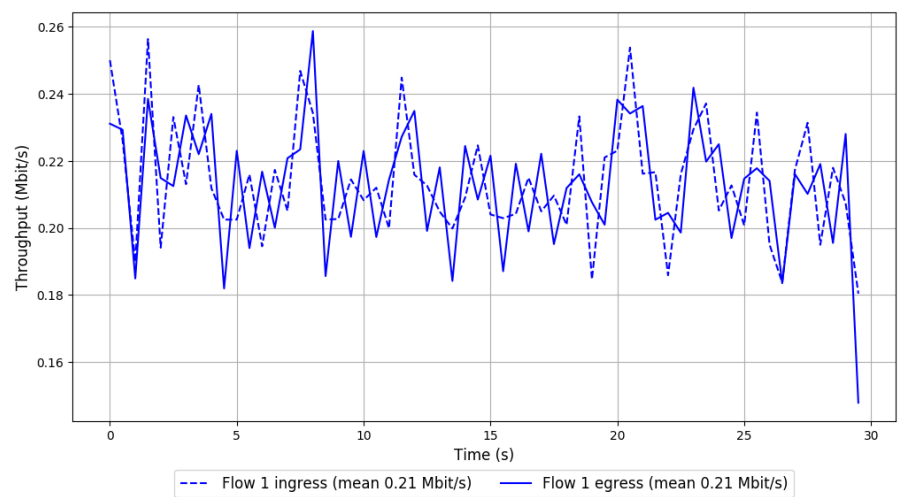
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.632 ms

Loss rate: 0.38%

Run 10: Report of SReAM — Data Link

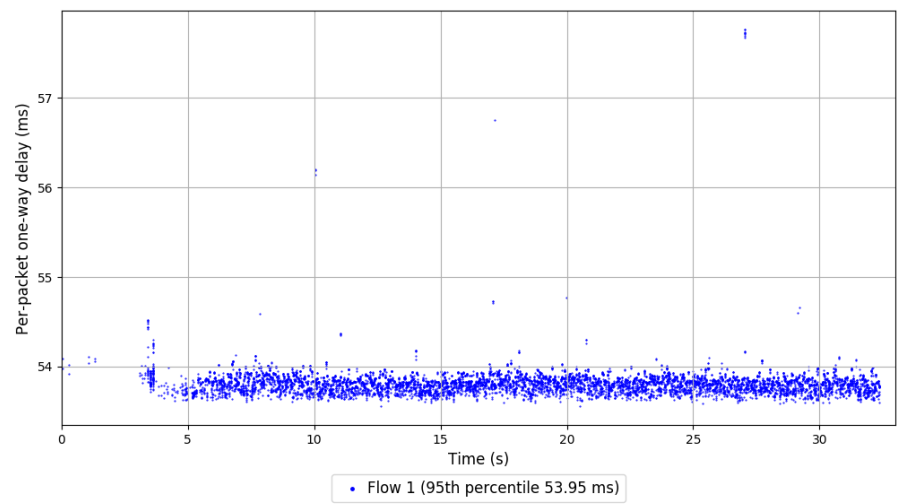
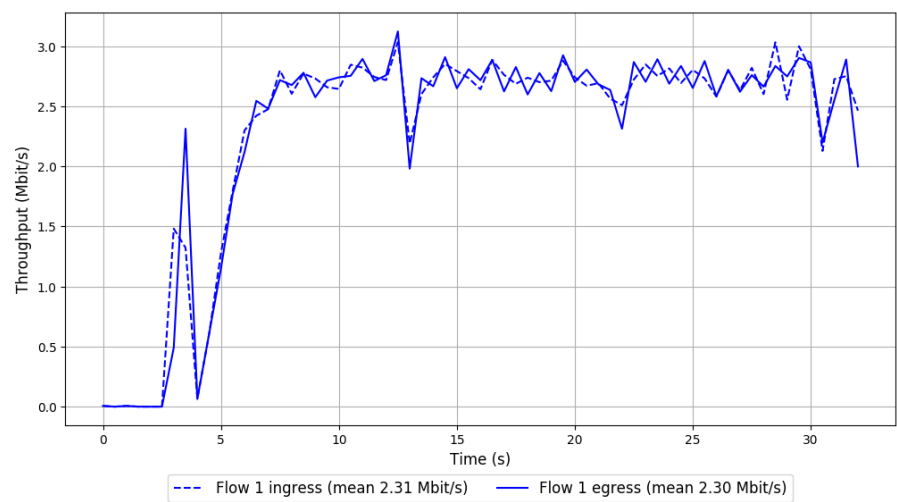


```
Run 1: Statistics of WebRTC media

Start at: 2018-03-20 13:29:56
End at: 2018-03-20 13:30:26

# Below is generated by plot.py at 2018-03-20 18:55:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 53.946 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 53.946 ms
Loss rate: 0.46%
```


Run 1: Report of WebRTC media — Data Link

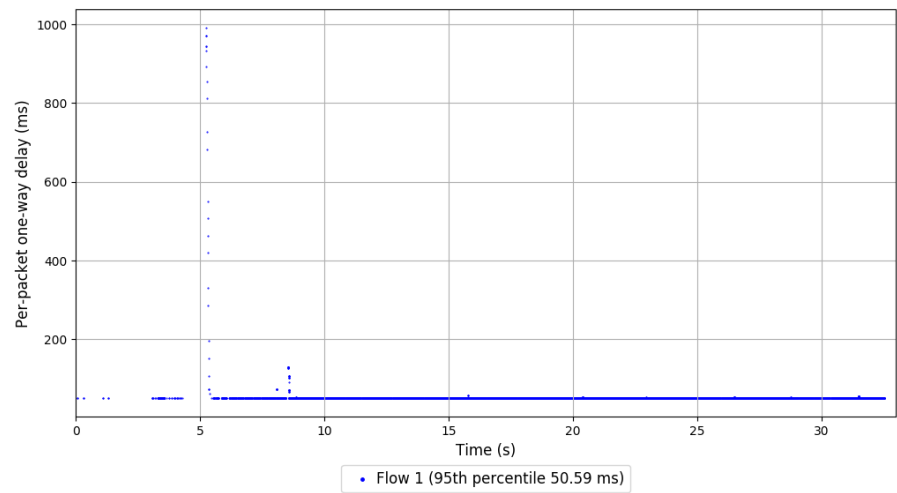
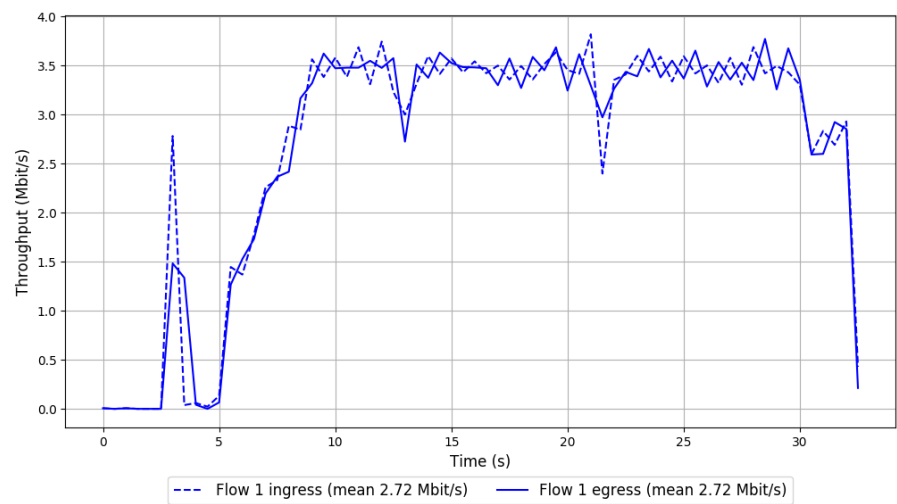


```
Run 2: Statistics of WebRTC media

Start at: 2018-03-20 13:44:18
End at: 2018-03-20 13:44:48

# Below is generated by plot.py at 2018-03-20 18:55:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.72 Mbit/s
95th percentile per-packet one-way delay: 50.587 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 2.72 Mbit/s
95th percentile per-packet one-way delay: 50.587 ms
Loss rate: 0.32%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-03-20 13:58:37

End at: 2018-03-20 13:59:07

Below is generated by plot.py at 2018-03-20 18:55:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 50.895 ms

Loss rate: 0.42%

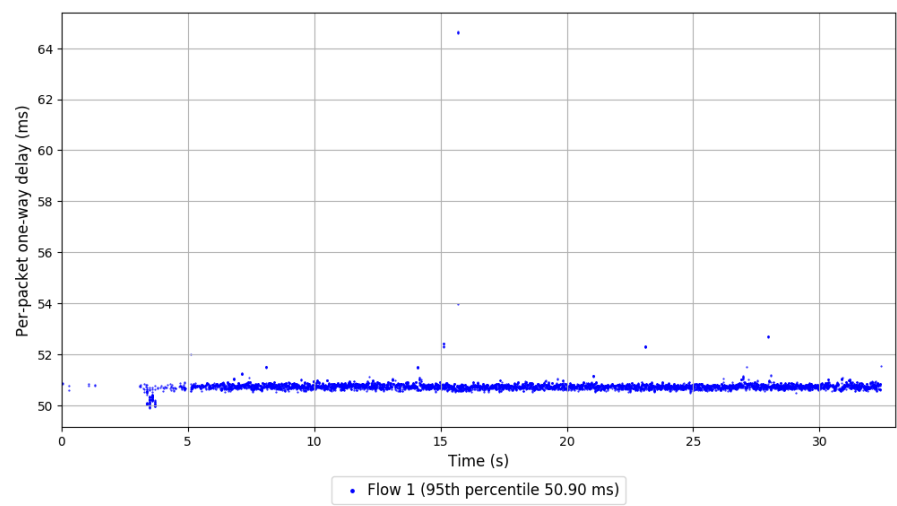
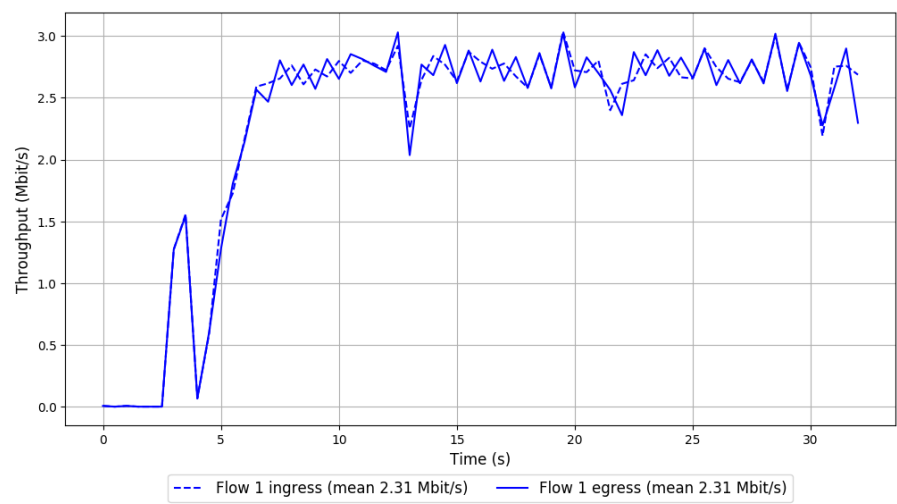
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 50.895 ms

Loss rate: 0.42%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-03-20 14:13:05

End at: 2018-03-20 14:13:35

Below is generated by plot.py at 2018-03-20 18:55:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 50.240 ms

Loss rate: 0.43%

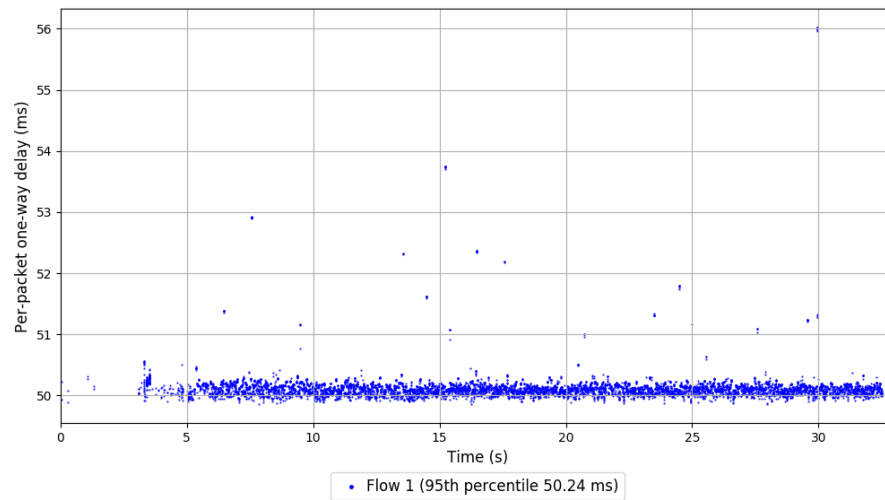
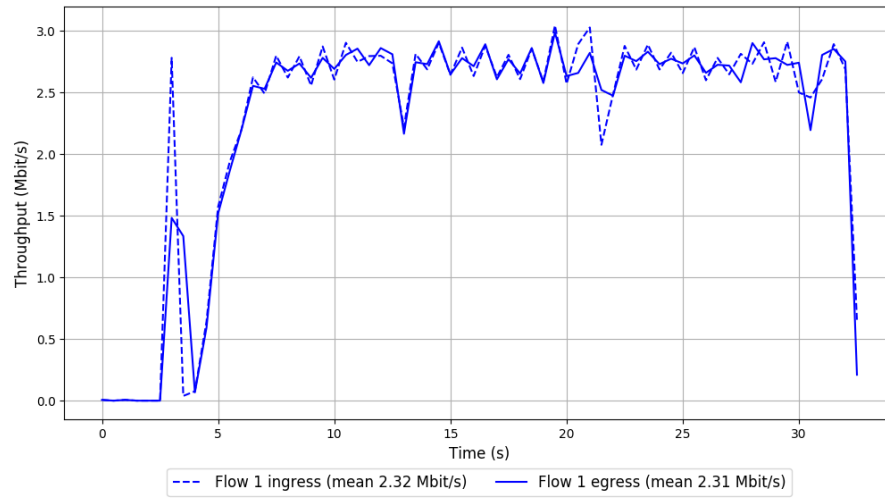
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 50.240 ms

Loss rate: 0.43%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-03-20 14:27:50

End at: 2018-03-20 14:28:20

Below is generated by plot.py at 2018-03-20 18:55:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 53.878 ms

Loss rate: 0.30%

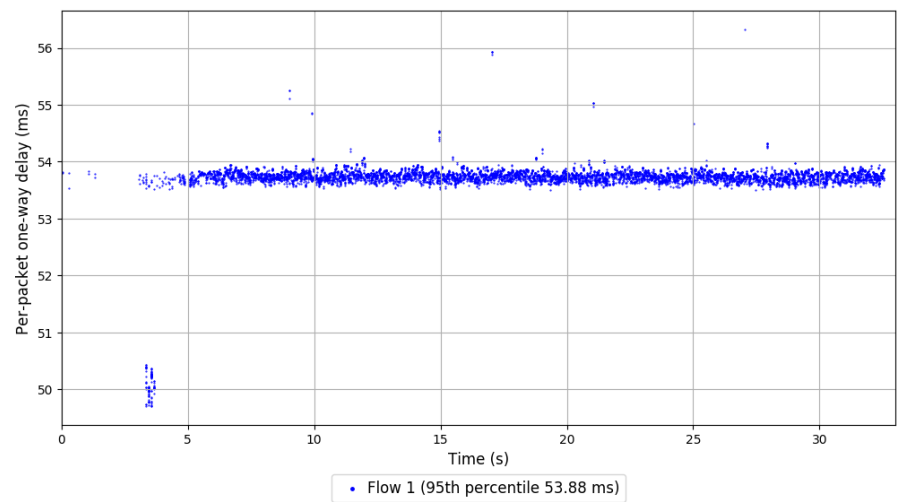
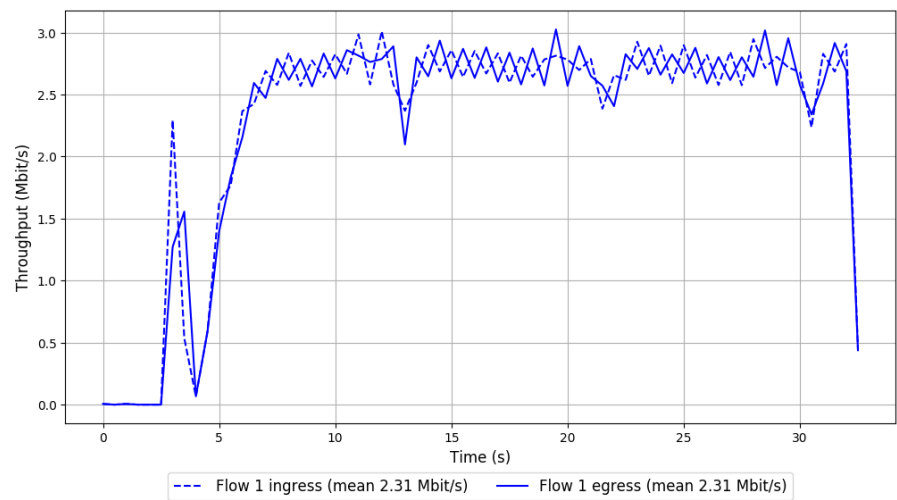
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 53.878 ms

Loss rate: 0.30%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-03-20 14:42:01

End at: 2018-03-20 14:42:31

Below is generated by plot.py at 2018-03-20 18:55:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.06 Mbit/s

95th percentile per-packet one-way delay: 49.980 ms

Loss rate: 0.62%

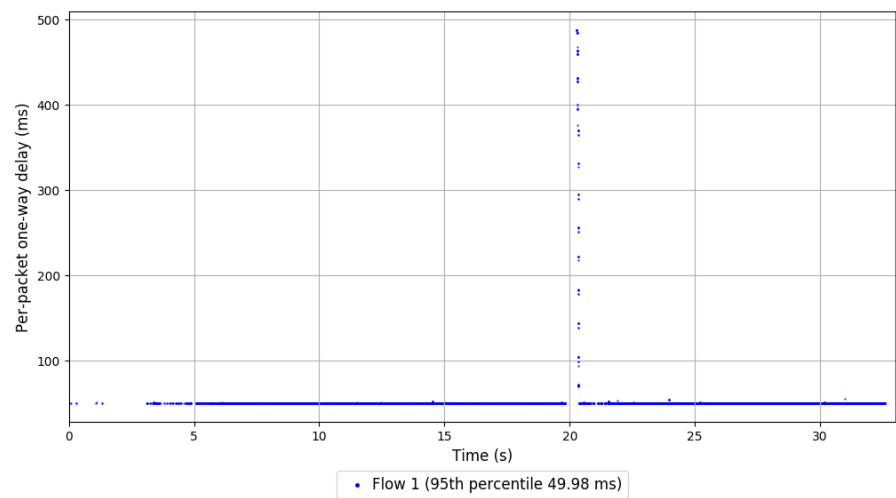
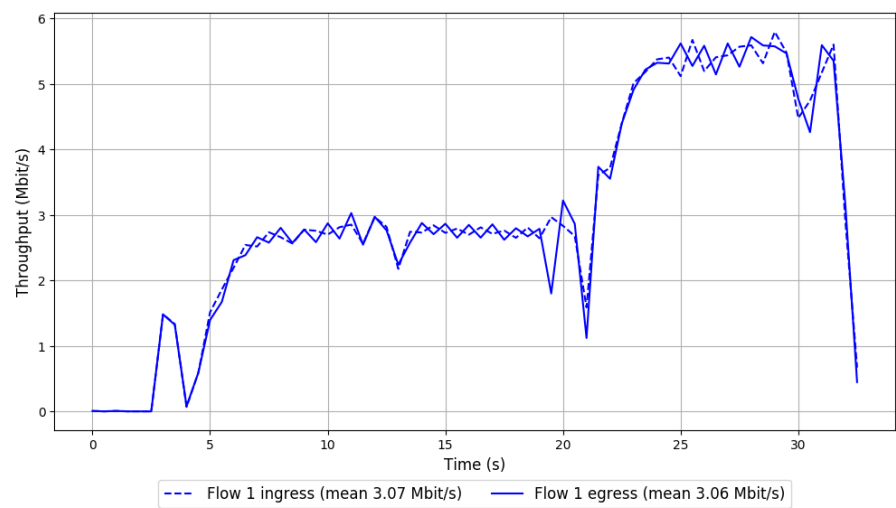
-- Flow 1:

Average throughput: 3.06 Mbit/s

95th percentile per-packet one-way delay: 49.980 ms

Loss rate: 0.62%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-03-20 14:56:27

End at: 2018-03-20 14:56:57

Below is generated by plot.py at 2018-03-20 18:55:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 53.941 ms

Loss rate: 0.43%

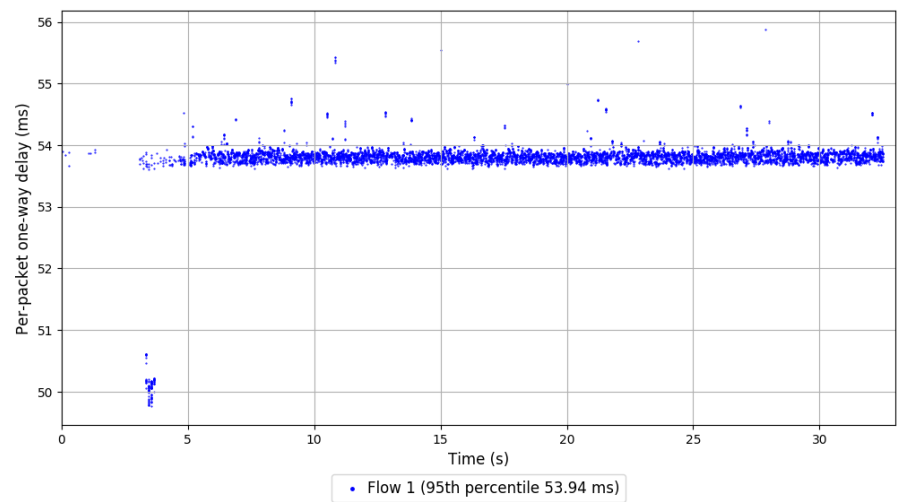
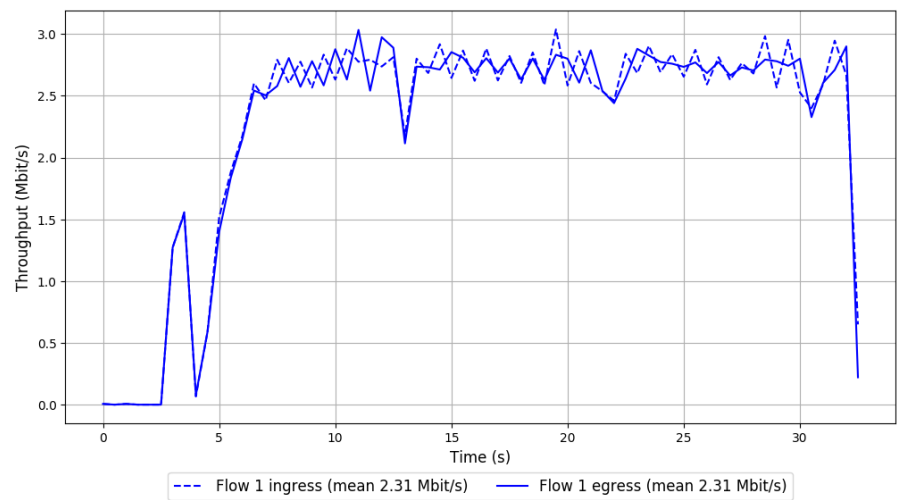
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 53.941 ms

Loss rate: 0.43%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-03-20 15:11:05

End at: 2018-03-20 15:11:35

Below is generated by plot.py at 2018-03-20 18:55:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 53.371 ms

Loss rate: 0.29%

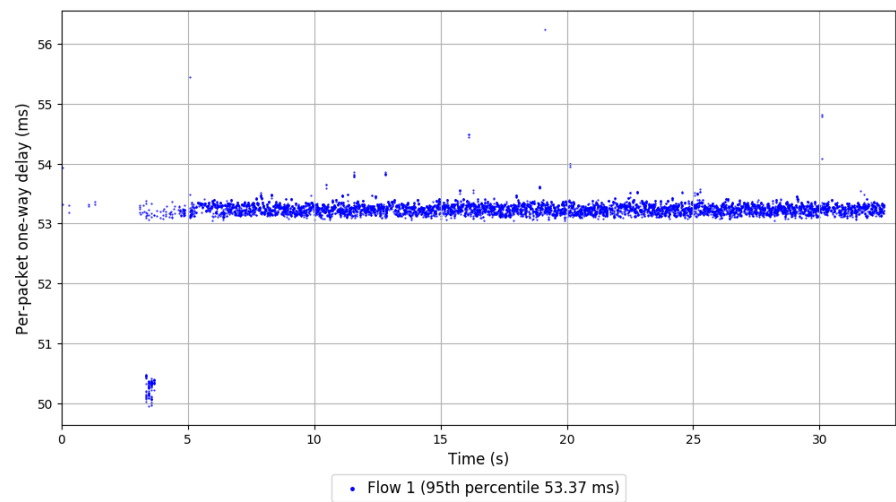
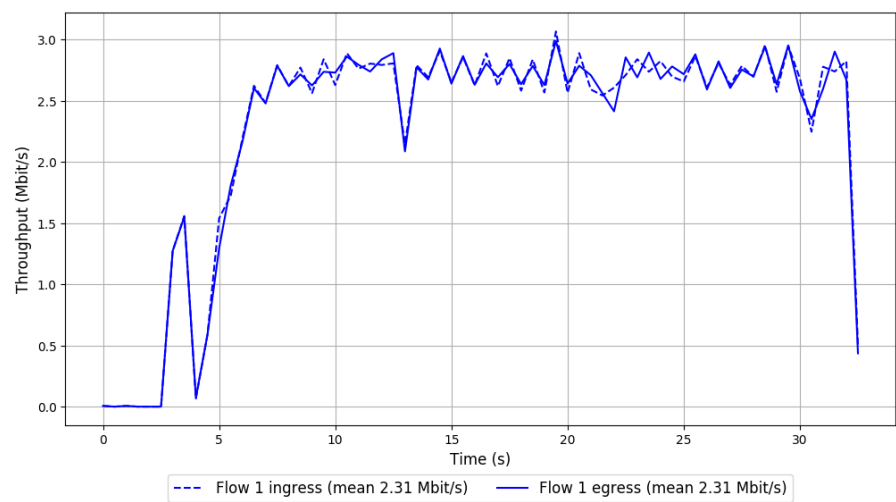
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 53.371 ms

Loss rate: 0.29%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-03-20 15:25:37

End at: 2018-03-20 15:26:07

Below is generated by plot.py at 2018-03-20 18:55:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 54.175 ms

Loss rate: 0.29%

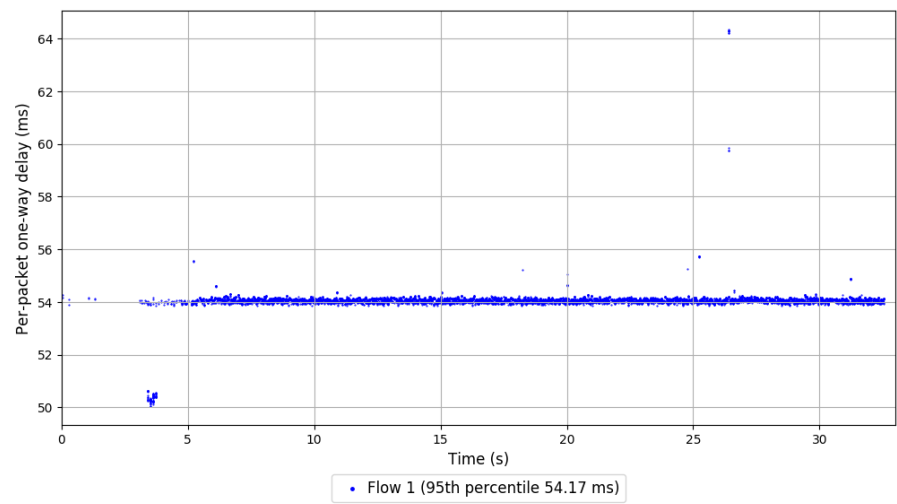
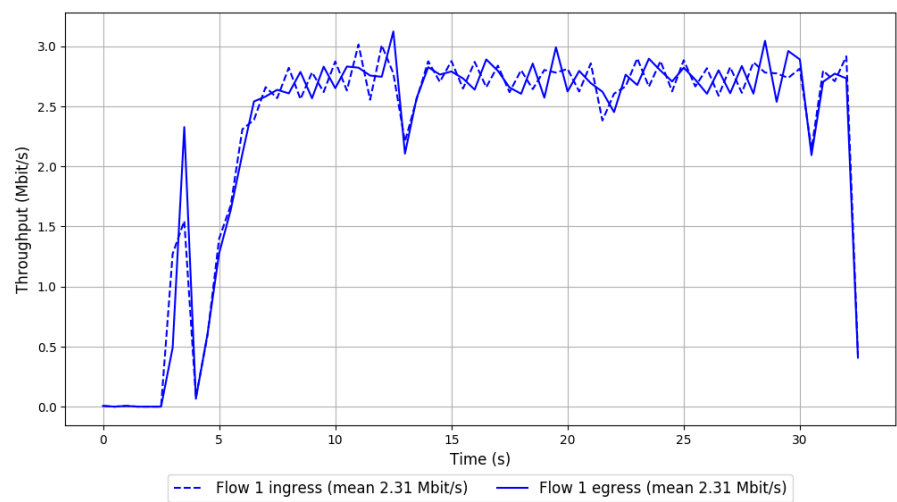
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 54.175 ms

Loss rate: 0.29%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-03-20 15:40:07

End at: 2018-03-20 15:40:37

Below is generated by plot.py at 2018-03-20 18:55:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 50.840 ms

Loss rate: 0.44%

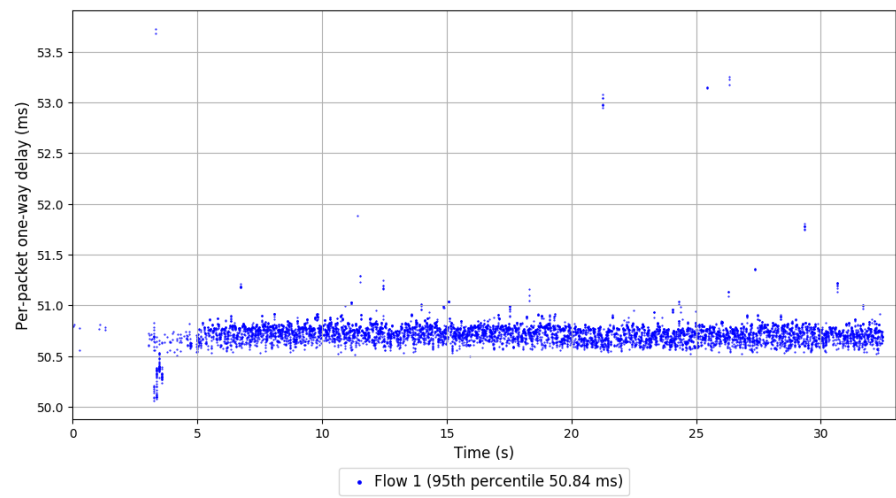
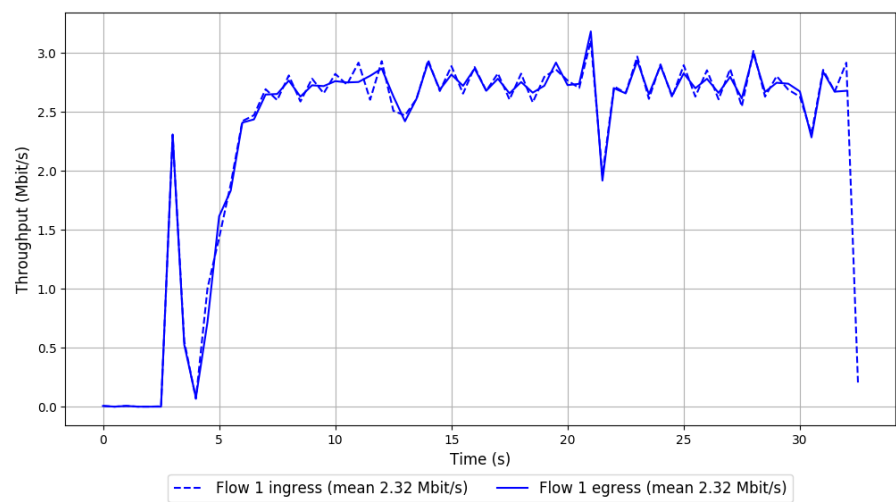
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 50.840 ms

Loss rate: 0.44%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-03-20 13:29:18

End at: 2018-03-20 13:29:48

Below is generated by plot.py at 2018-03-20 18:55:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 53.612 ms

Loss rate: 0.37%

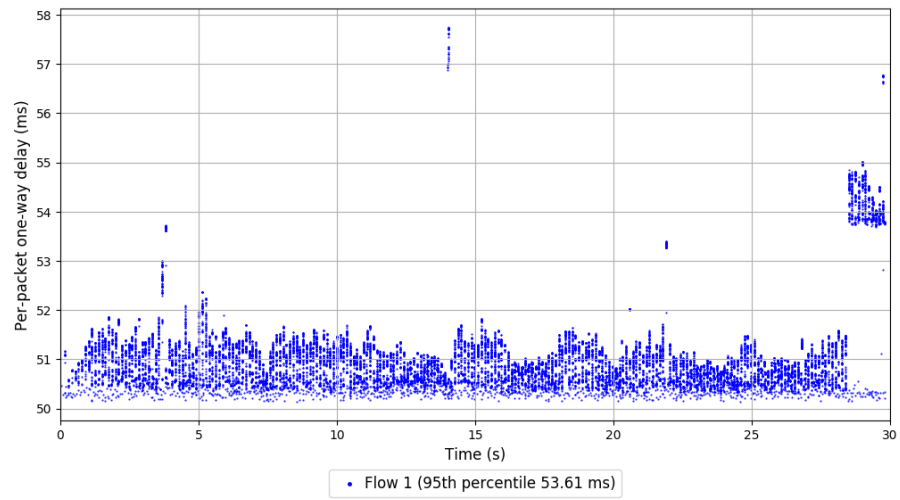
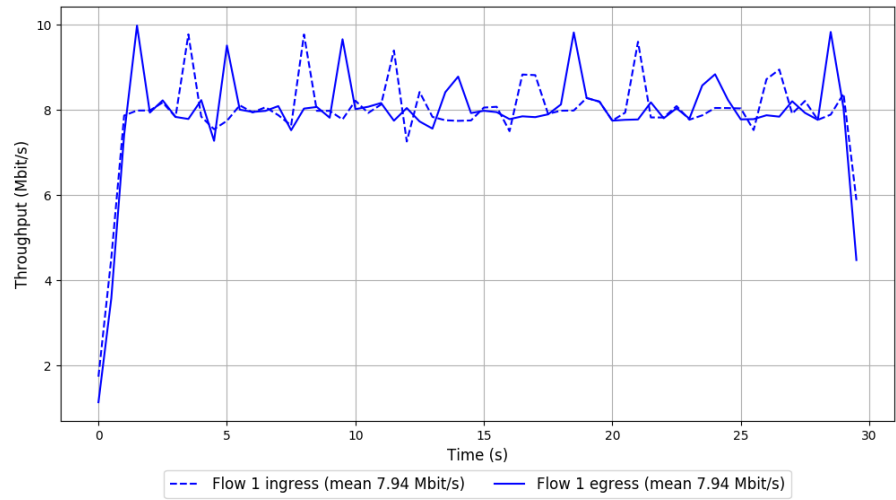
-- Flow 1:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 53.612 ms

Loss rate: 0.37%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-03-20 13:43:41

End at: 2018-03-20 13:44:11

Below is generated by plot.py at 2018-03-20 18:55:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 54.663 ms

Loss rate: 0.43%

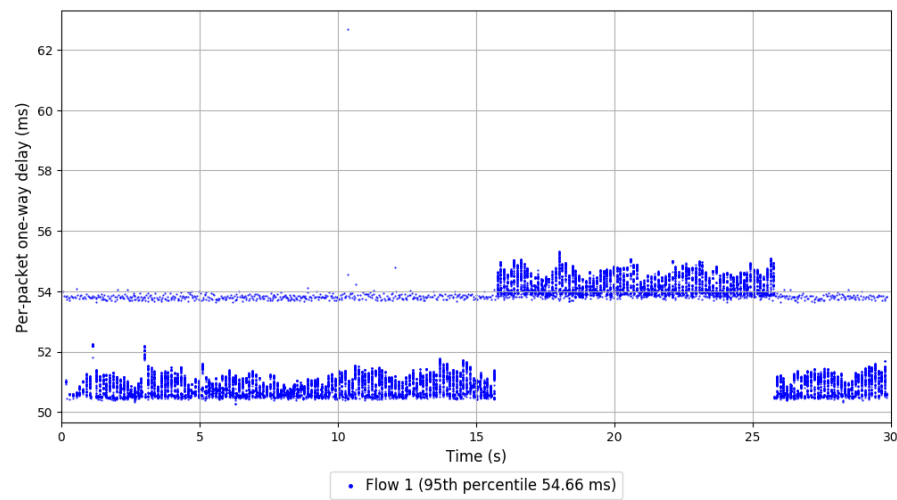
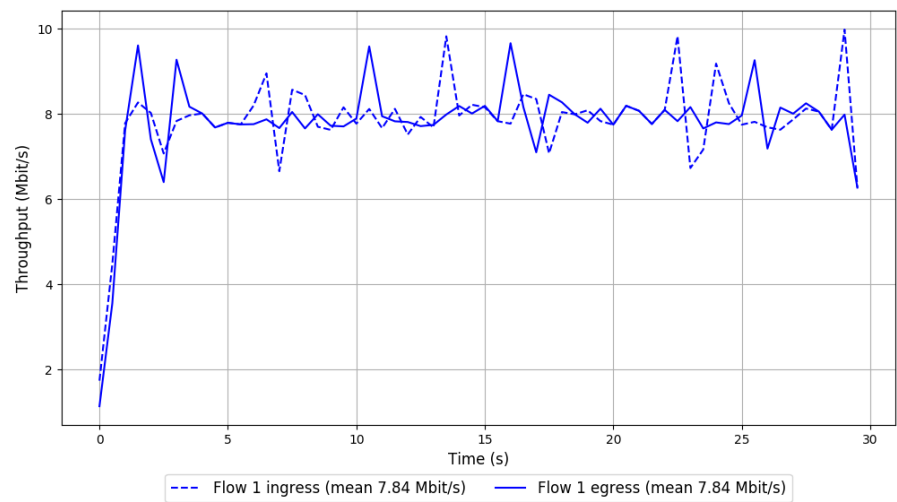
-- Flow 1:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 54.663 ms

Loss rate: 0.43%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-03-20 13:57:59

End at: 2018-03-20 13:58:29

Below is generated by plot.py at 2018-03-20 18:55:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 51.457 ms

Loss rate: 0.40%

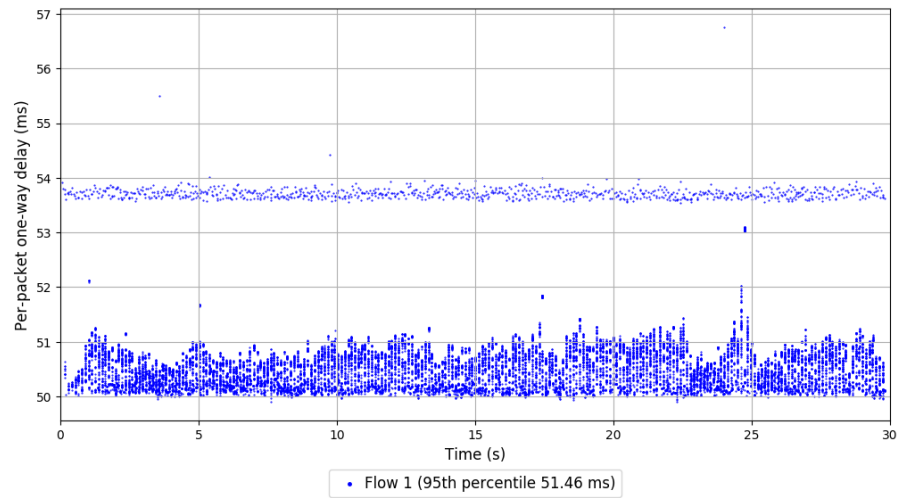
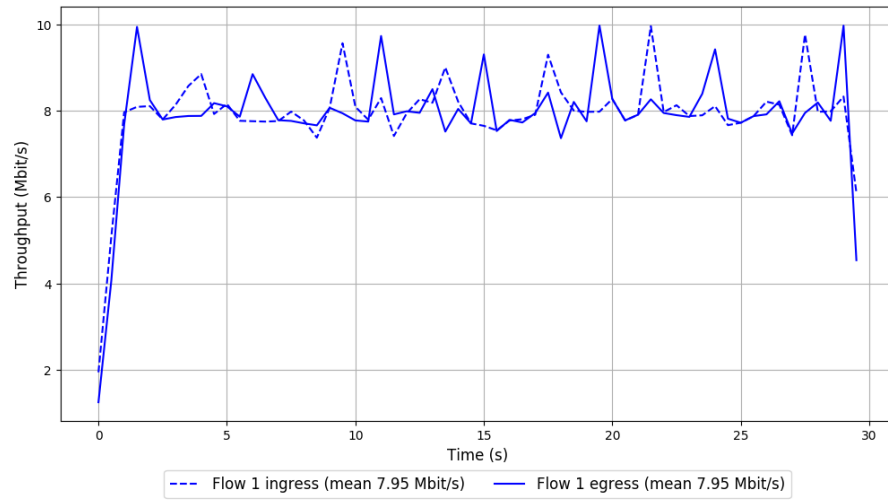
-- Flow 1:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 51.457 ms

Loss rate: 0.40%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-03-20 14:12:28

End at: 2018-03-20 14:12:58

Below is generated by plot.py at 2018-03-20 18:55:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 51.093 ms

Loss rate: 0.36%

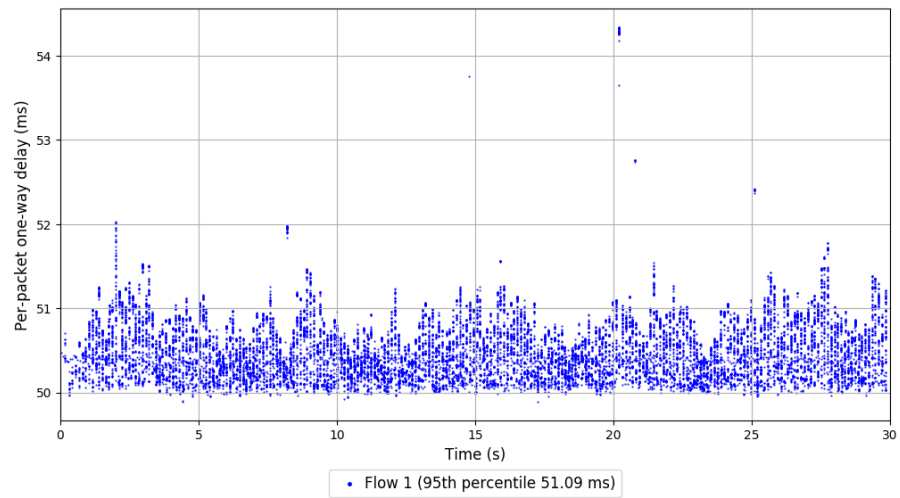
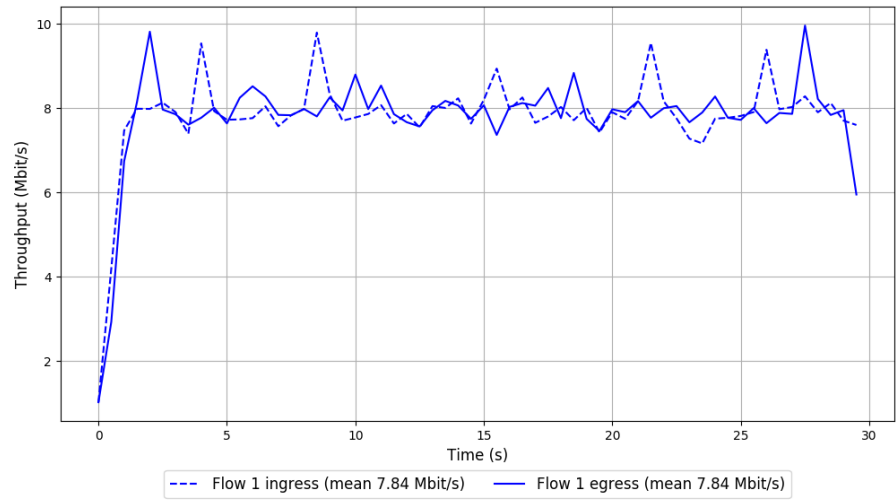
-- Flow 1:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 51.093 ms

Loss rate: 0.36%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-03-20 14:27:13

End at: 2018-03-20 14:27:43

Below is generated by plot.py at 2018-03-20 18:55:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 51.866 ms

Loss rate: 0.48%

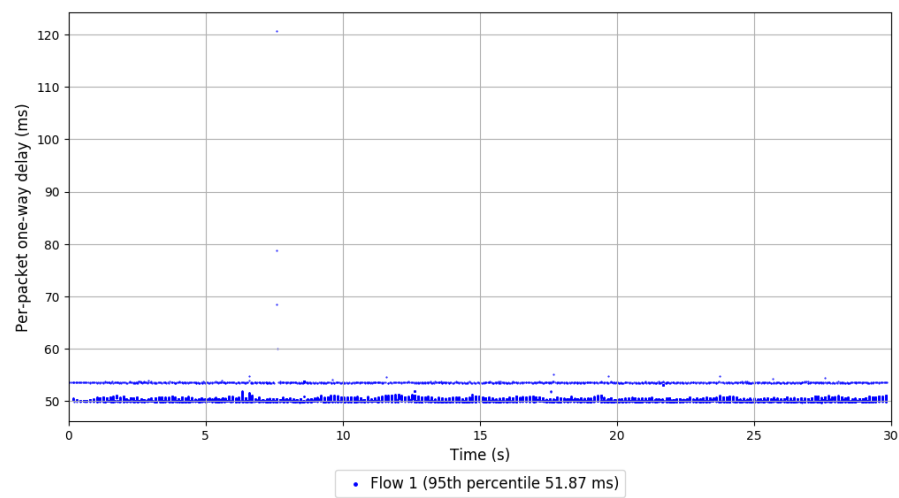
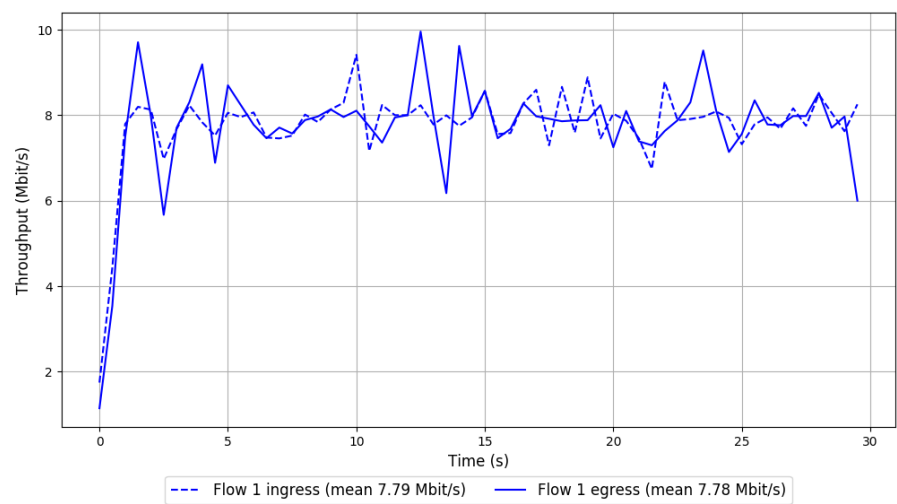
-- Flow 1:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 51.866 ms

Loss rate: 0.48%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-03-20 14:41:24

End at: 2018-03-20 14:41:54

Below is generated by plot.py at 2018-03-20 18:55:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 51.800 ms

Loss rate: 0.42%

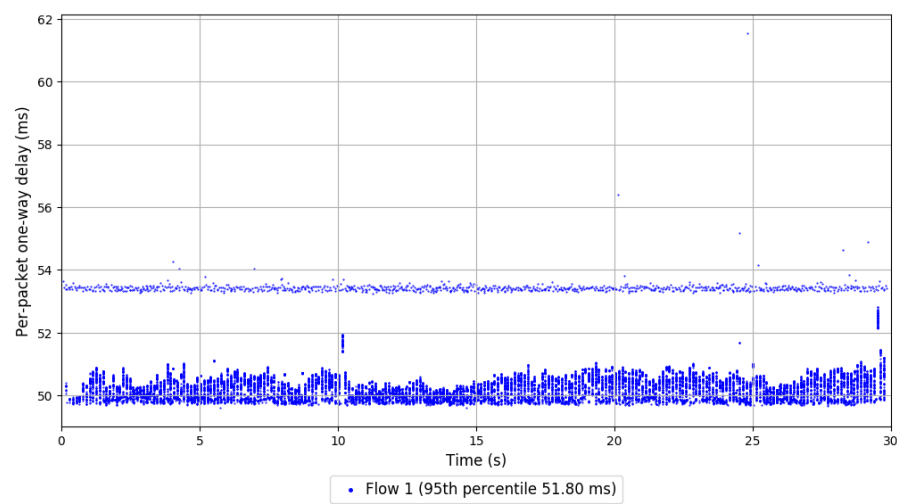
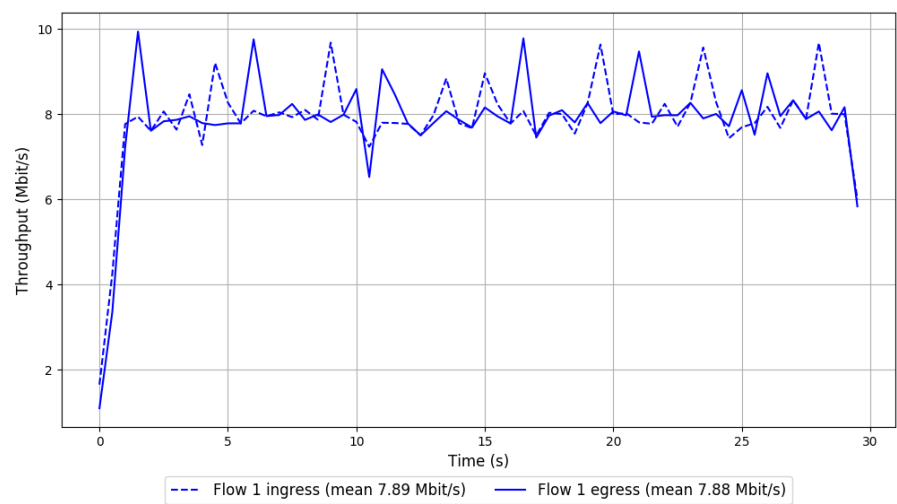
-- Flow 1:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 51.800 ms

Loss rate: 0.42%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-03-20 14:55:49

End at: 2018-03-20 14:56:19

Below is generated by plot.py at 2018-03-20 18:55:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 50.902 ms

Loss rate: 0.05%

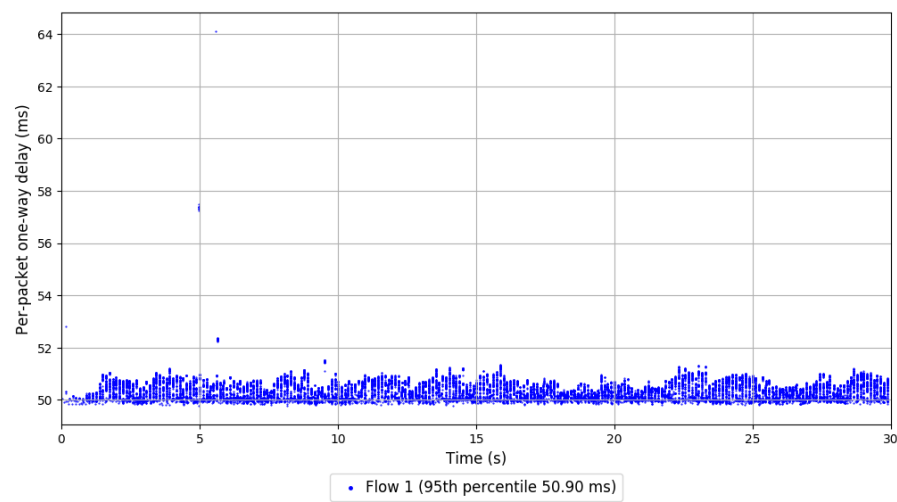
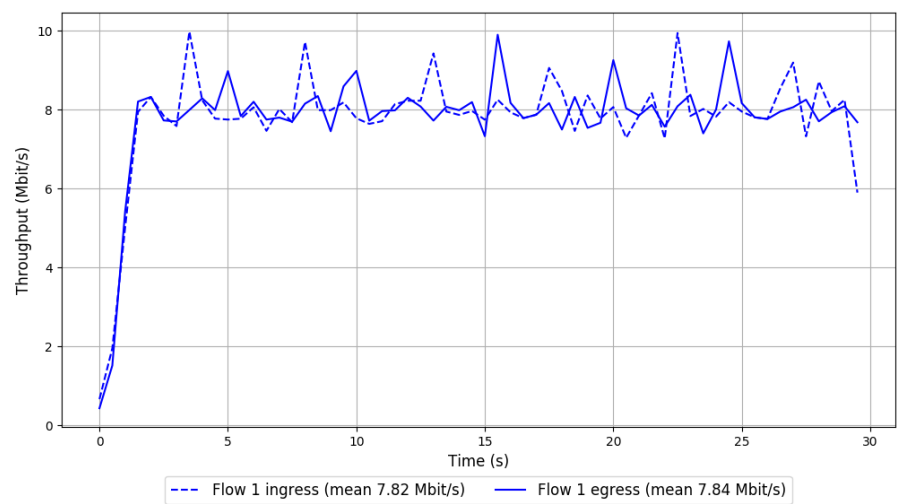
-- Flow 1:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 50.902 ms

Loss rate: 0.05%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-03-20 15:10:27

End at: 2018-03-20 15:10:57

Below is generated by plot.py at 2018-03-20 18:55:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 51.191 ms

Loss rate: 0.41%

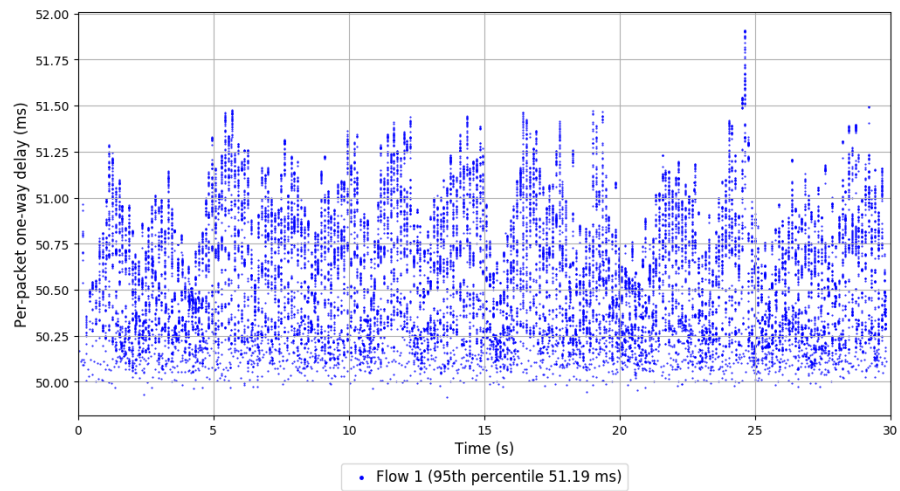
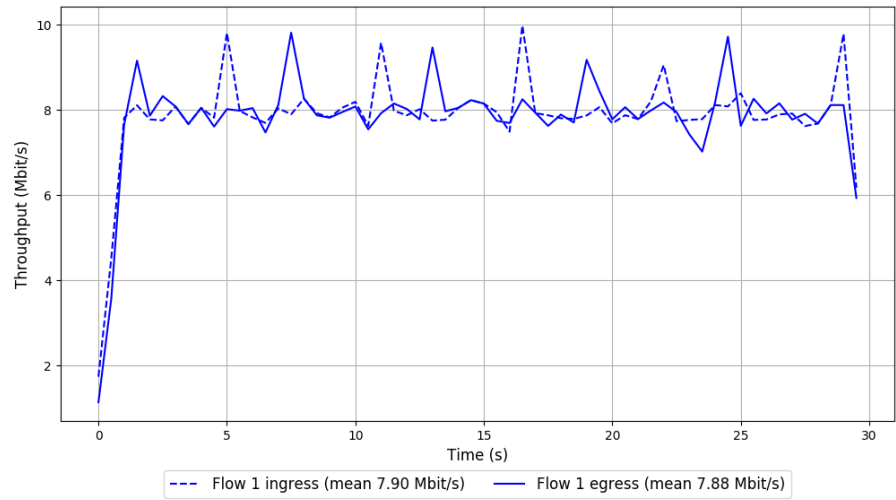
-- Flow 1:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 51.191 ms

Loss rate: 0.41%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-03-20 15:24:59

End at: 2018-03-20 15:25:29

Below is generated by plot.py at 2018-03-20 18:55:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 52.339 ms

Loss rate: 0.01%

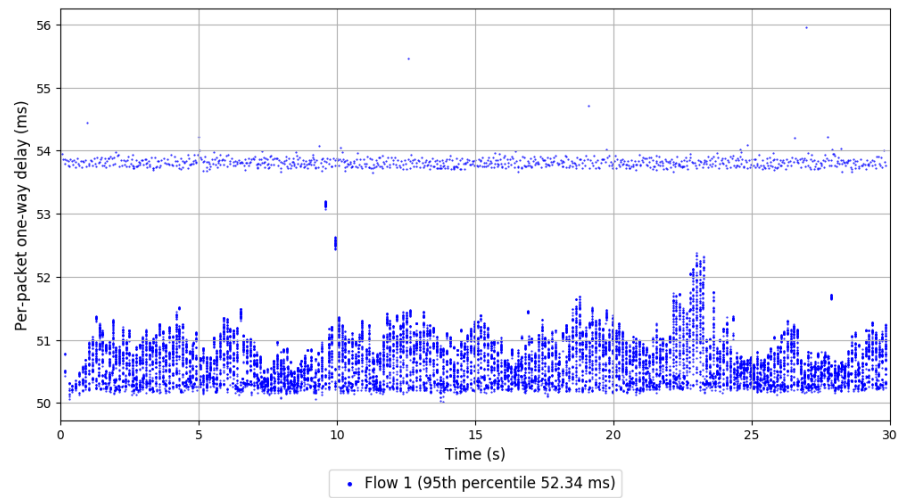
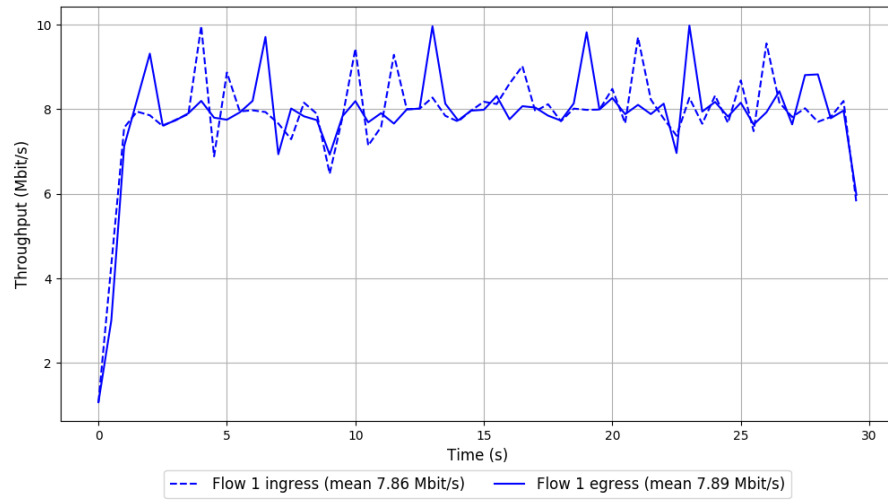
-- Flow 1:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 52.339 ms

Loss rate: 0.01%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-03-20 15:39:30

End at: 2018-03-20 15:40:00

Below is generated by plot.py at 2018-03-20 18:55:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 54.190 ms

Loss rate: 0.42%

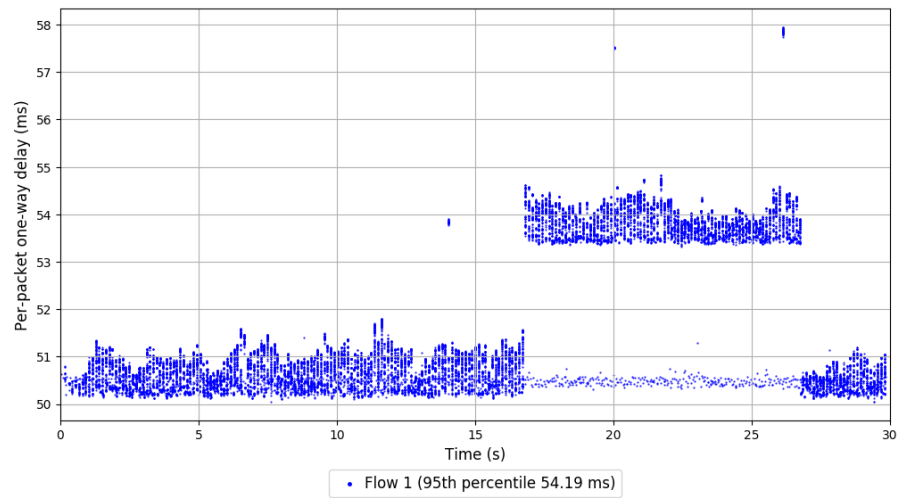
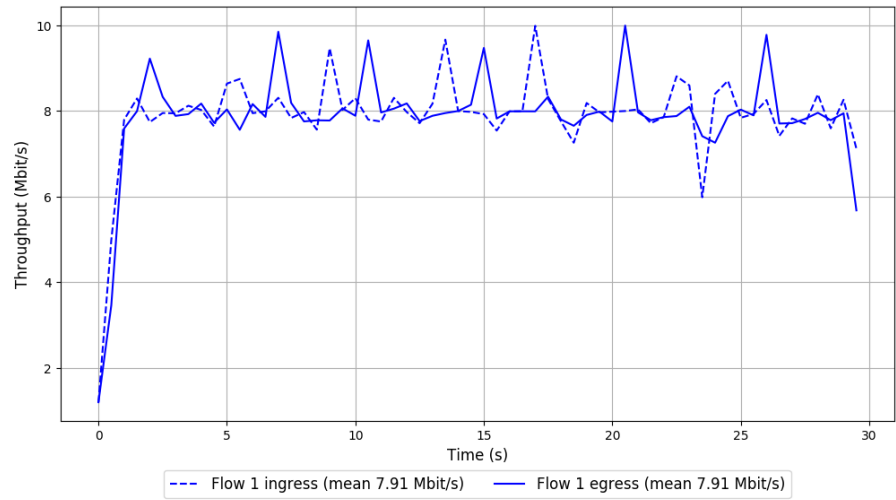
-- Flow 1:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 54.190 ms

Loss rate: 0.42%

Run 10: Report of Sprout — Data Link

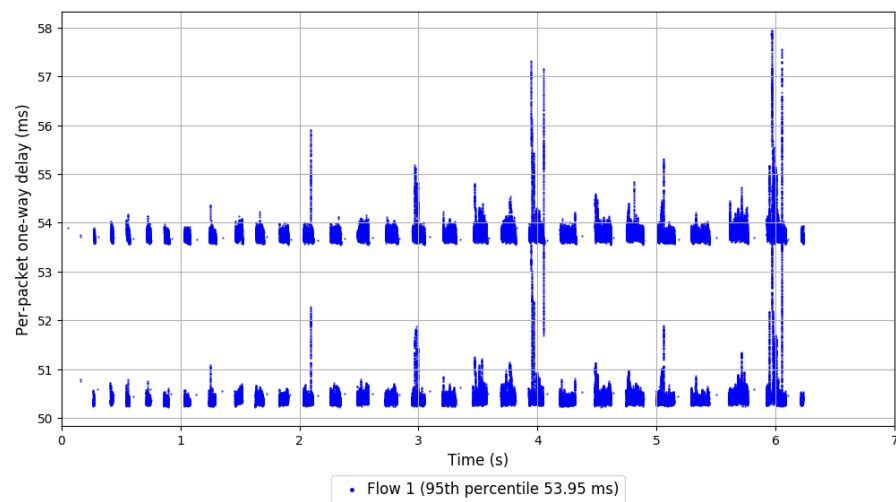
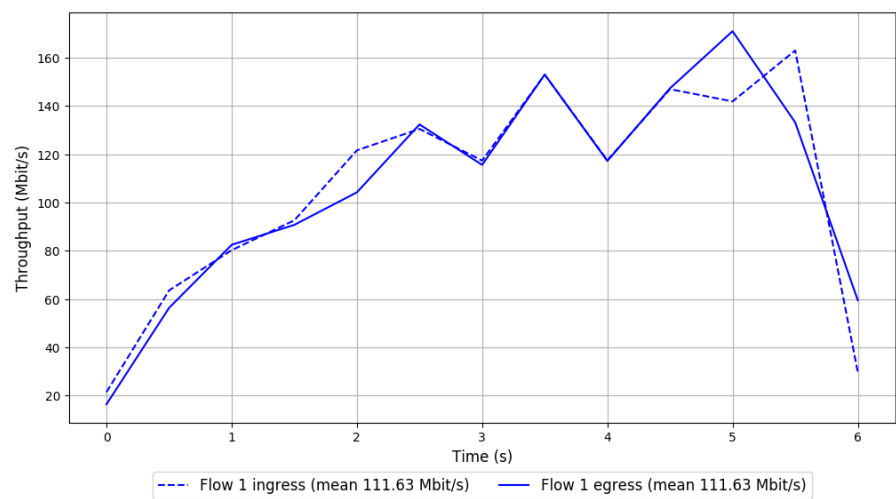


Run 1: Statistics of TaoVA-100x

Start at: 2018-03-20 13:34:06

End at: 2018-03-20 13:34:36

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

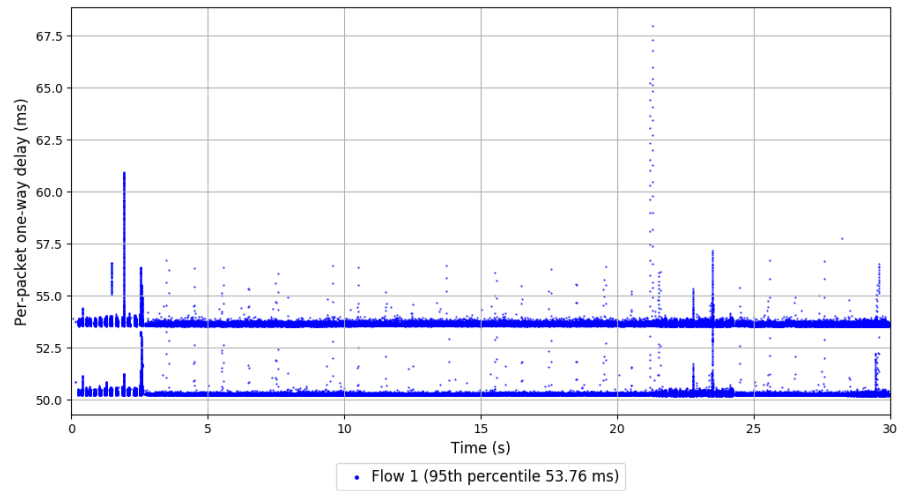
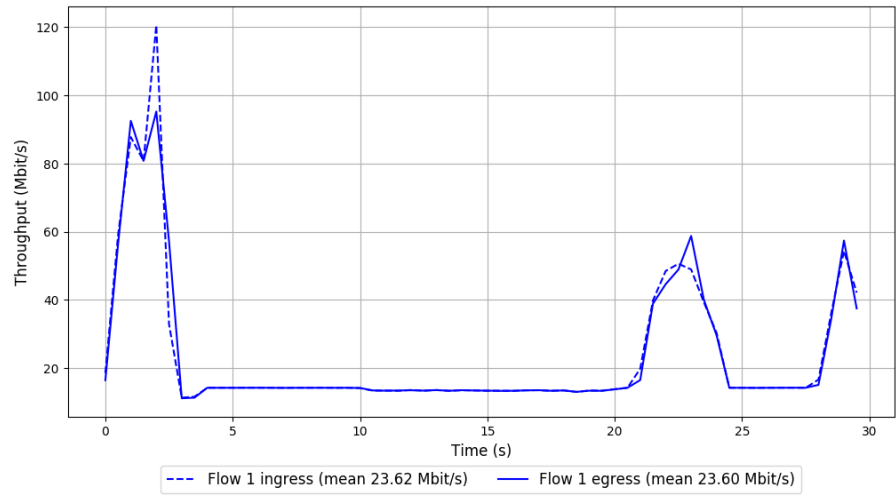


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-03-20 13:48:31
End at: 2018-03-20 13:49:01

# Below is generated by plot.py at 2018-03-20 18:55:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.60 Mbit/s
95th percentile per-packet one-way delay: 53.761 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 23.60 Mbit/s
95th percentile per-packet one-way delay: 53.761 ms
Loss rate: 0.44%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-03-20 14:02:47

End at: 2018-03-20 14:03:17

Below is generated by plot.py at 2018-03-20 18:56:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 246.02 Mbit/s

95th percentile per-packet one-way delay: 51.709 ms

Loss rate: 0.41%

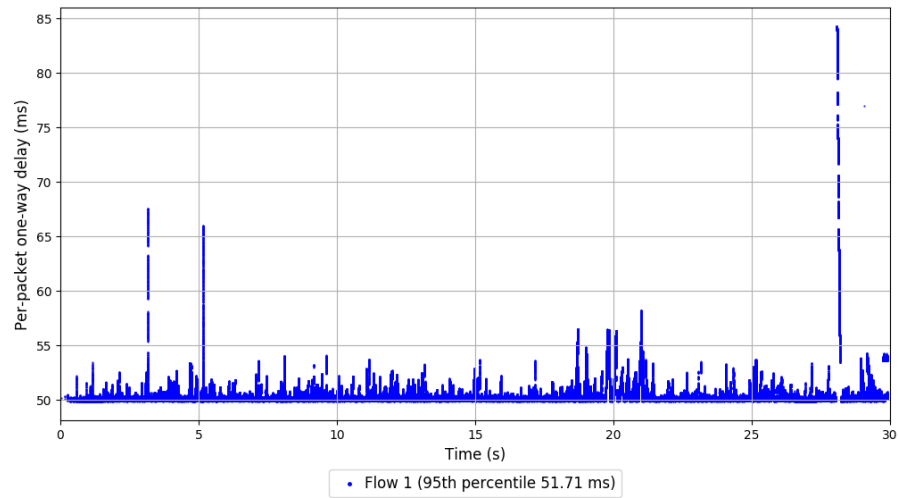
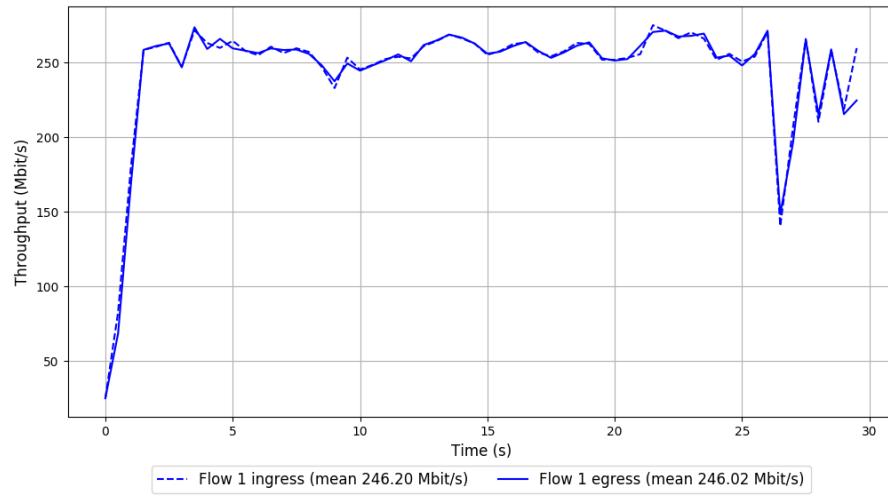
-- Flow 1:

Average throughput: 246.02 Mbit/s

95th percentile per-packet one-way delay: 51.709 ms

Loss rate: 0.41%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-03-20 14:17:15

End at: 2018-03-20 14:17:45

Below is generated by plot.py at 2018-03-20 18:56:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 247.40 Mbit/s

95th percentile per-packet one-way delay: 51.941 ms

Loss rate: 0.36%

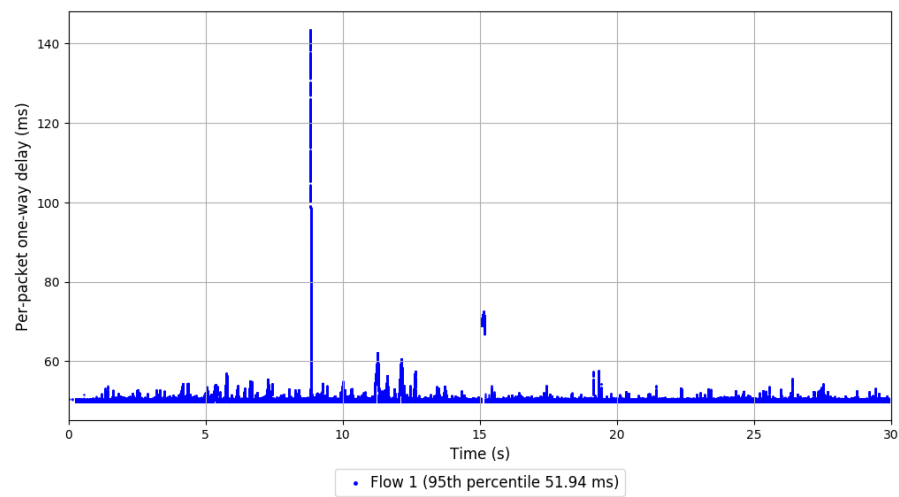
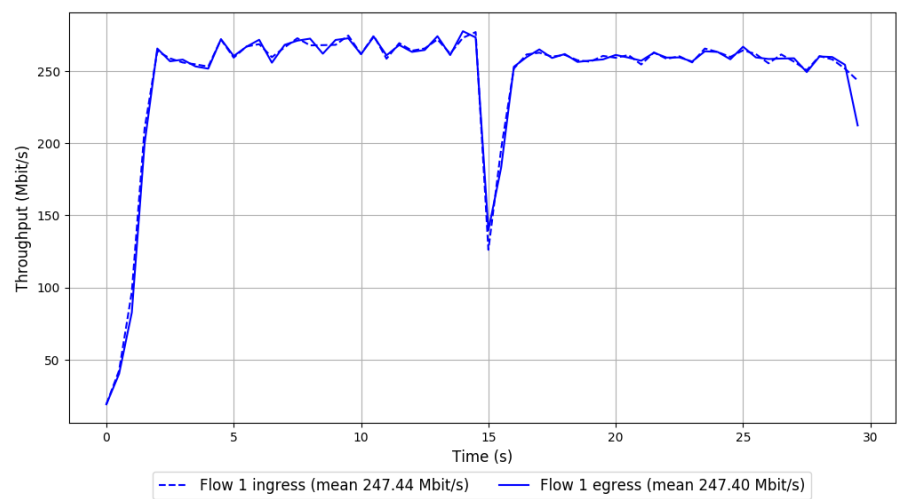
-- Flow 1:

Average throughput: 247.40 Mbit/s

95th percentile per-packet one-way delay: 51.941 ms

Loss rate: 0.36%

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

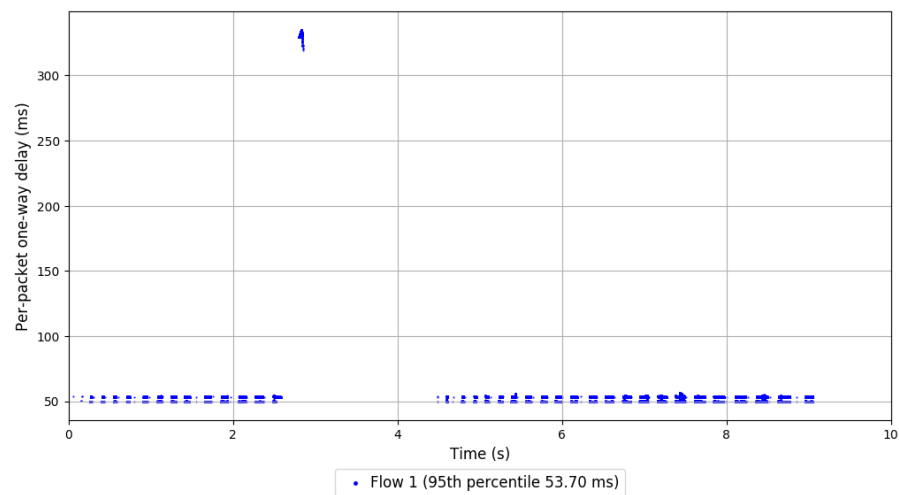
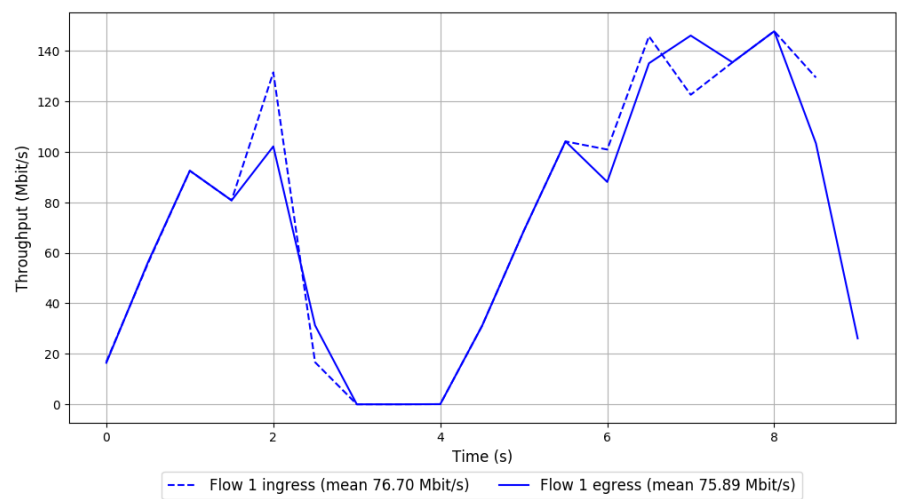


Run 5: Statistics of TaoVA-100x

Start at: 2018-03-20 14:32:01

End at: 2018-03-20 14:32:31

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-03-20 14:46:14

End at: 2018-03-20 14:46:44

Below is generated by plot.py at 2018-03-20 18:56:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.75 Mbit/s

95th percentile per-packet one-way delay: 53.701 ms

Loss rate: 1.00%

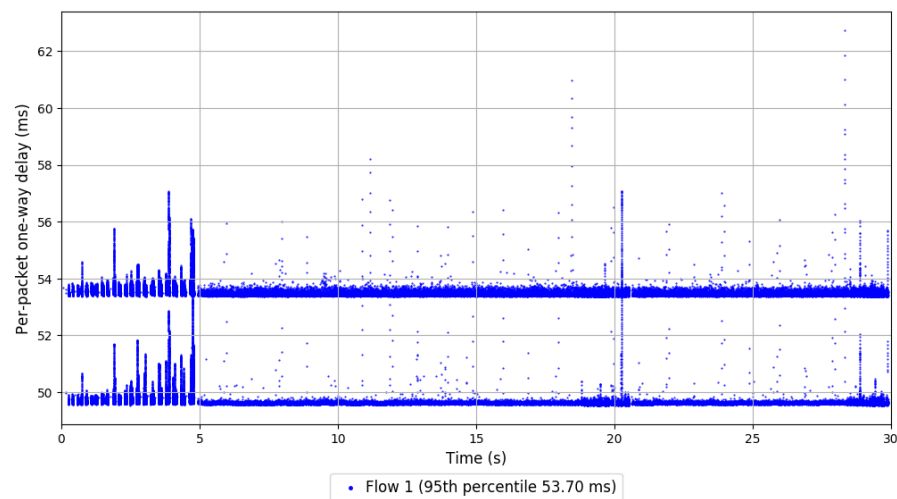
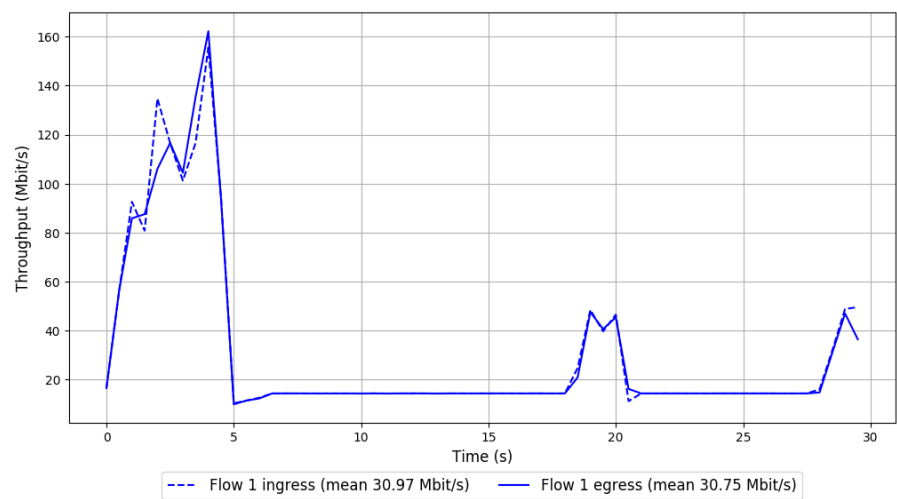
-- Flow 1:

Average throughput: 30.75 Mbit/s

95th percentile per-packet one-way delay: 53.701 ms

Loss rate: 1.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-03-20 15:00:37

End at: 2018-03-20 15:01:07

Below is generated by plot.py at 2018-03-20 18:56:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 235.47 Mbit/s

95th percentile per-packet one-way delay: 50.724 ms

Loss rate: 0.40%

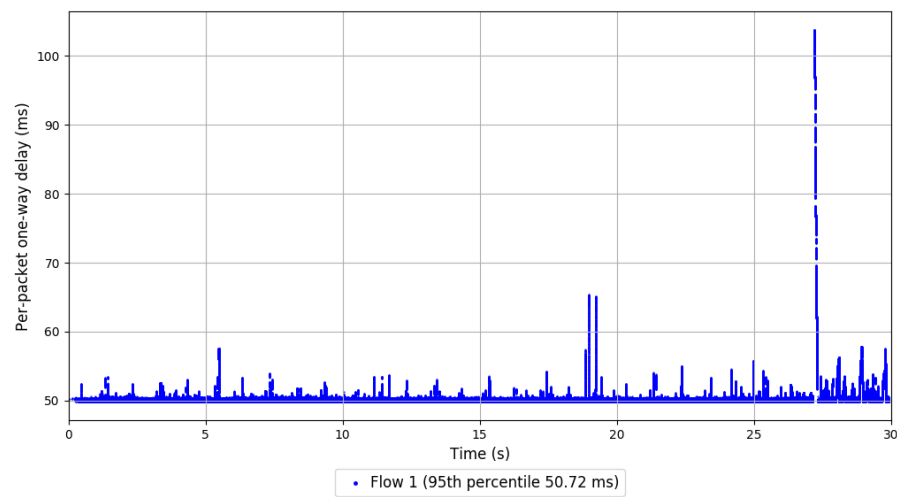
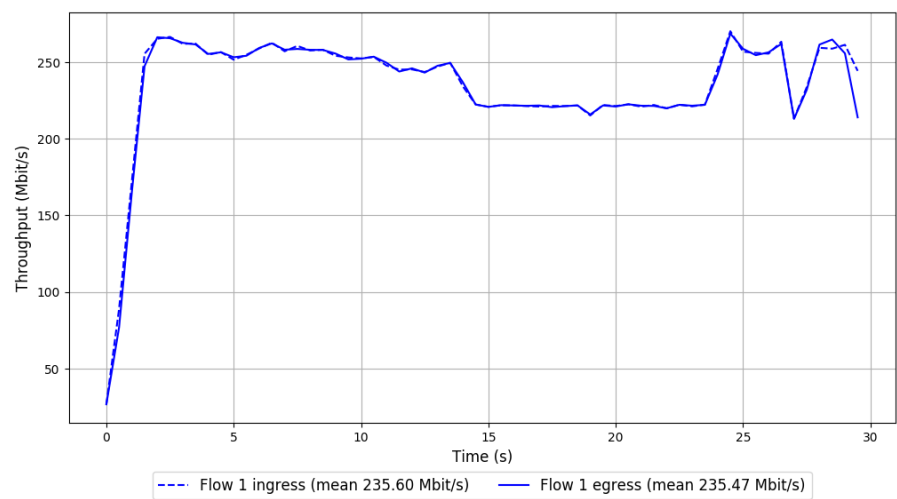
-- Flow 1:

Average throughput: 235.47 Mbit/s

95th percentile per-packet one-way delay: 50.724 ms

Loss rate: 0.40%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-03-20 15:15:14

End at: 2018-03-20 15:15:44

Below is generated by plot.py at 2018-03-20 18:56:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.59 Mbit/s

95th percentile per-packet one-way delay: 50.559 ms

Loss rate: 0.34%

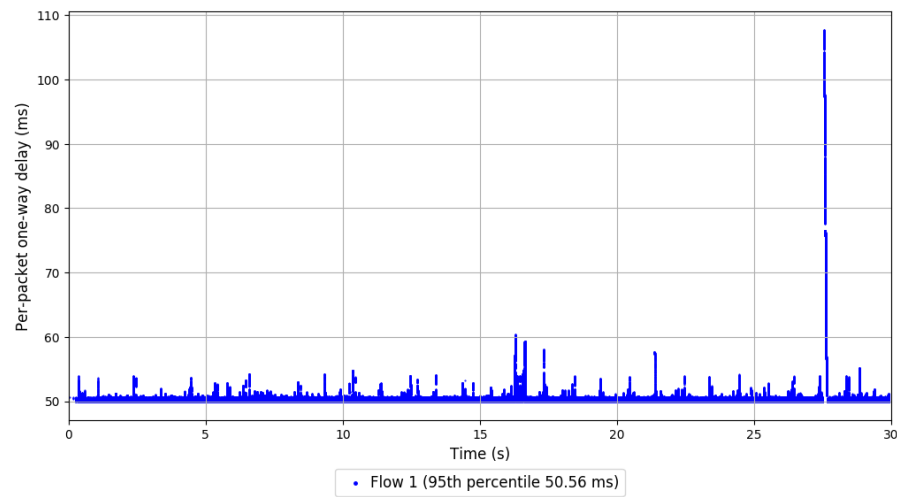
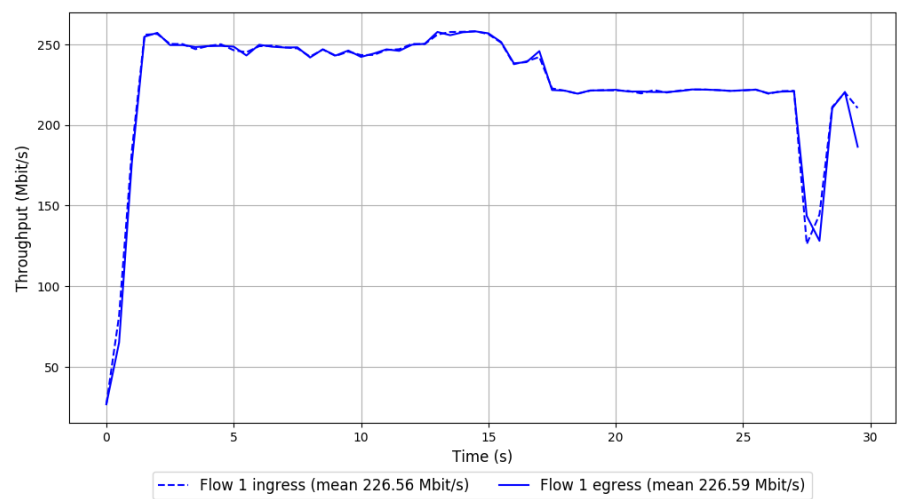
-- Flow 1:

Average throughput: 226.59 Mbit/s

95th percentile per-packet one-way delay: 50.559 ms

Loss rate: 0.34%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-03-20 15:29:45

End at: 2018-03-20 15:30:15

Below is generated by plot.py at 2018-03-20 18:57:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 251.67 Mbit/s

95th percentile per-packet one-way delay: 51.950 ms

Loss rate: 0.30%

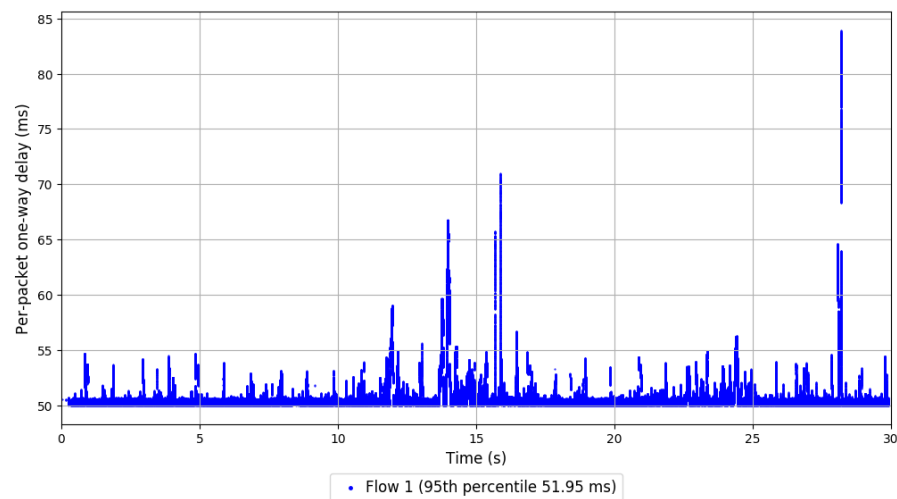
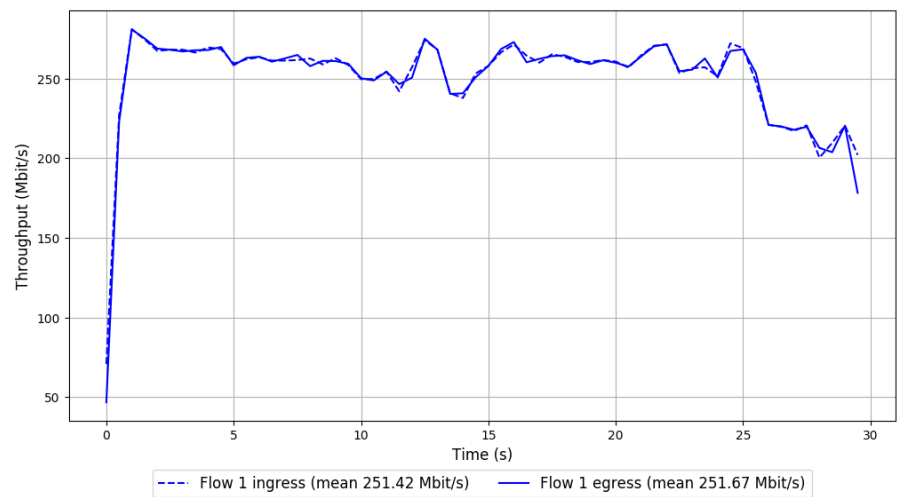
-- Flow 1:

Average throughput: 251.67 Mbit/s

95th percentile per-packet one-way delay: 51.950 ms

Loss rate: 0.30%

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

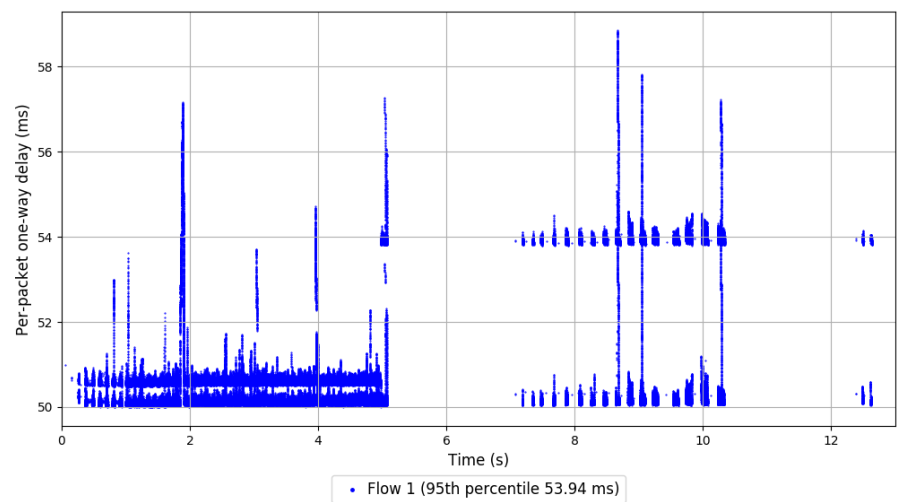
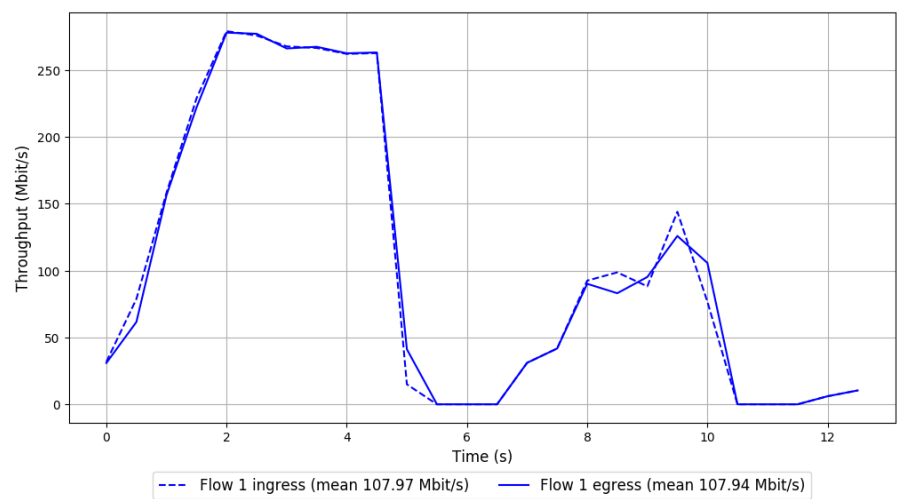


Run 10: Statistics of TaoVA-100x

Start at: 2018-03-20 15:44:17

End at: 2018-03-20 15:44:47

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



Run 1: Statistics of TCP Vegas

Start at: 2018-03-20 13:37:09

End at: 2018-03-20 13:37:39

Below is generated by plot.py at 2018-03-20 18:57:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.87 Mbit/s

95th percentile per-packet one-way delay: 51.897 ms

Loss rate: 0.37%

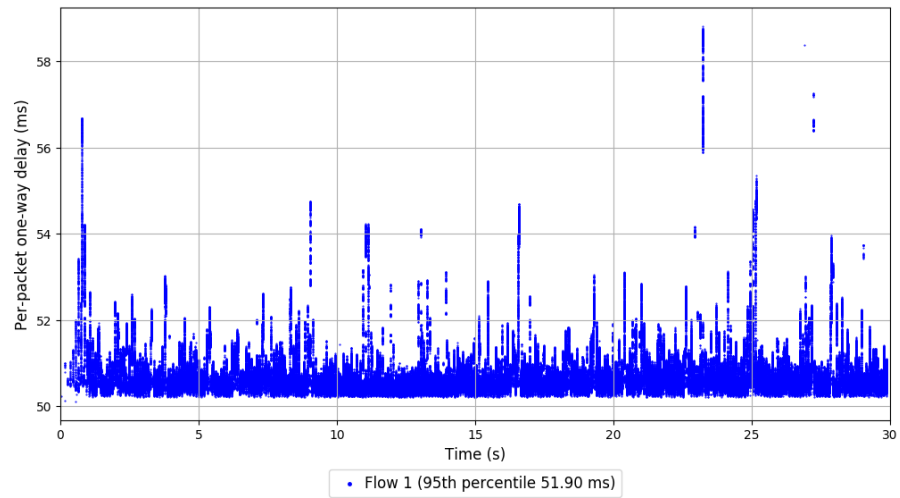
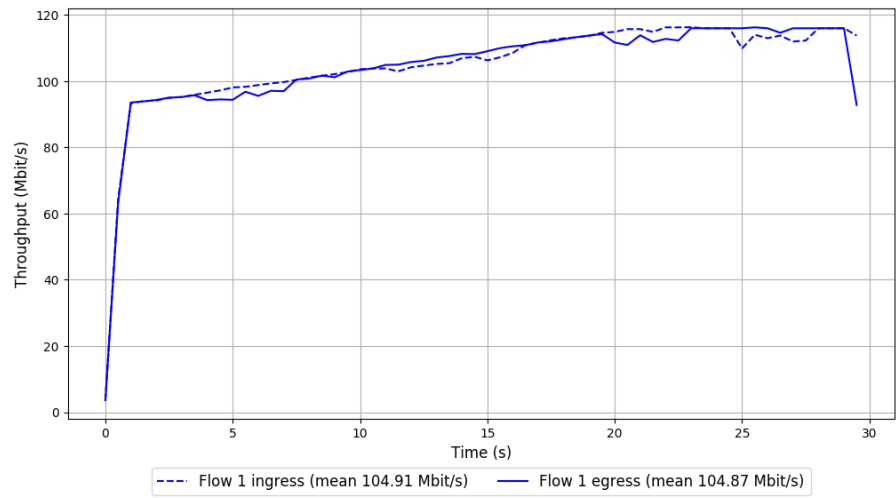
-- Flow 1:

Average throughput: 104.87 Mbit/s

95th percentile per-packet one-way delay: 51.897 ms

Loss rate: 0.37%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-03-20 13:51:32

End at: 2018-03-20 13:52:02

Below is generated by plot.py at 2018-03-20 18:57:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 127.97 Mbit/s

95th percentile per-packet one-way delay: 56.762 ms

Loss rate: 0.20%

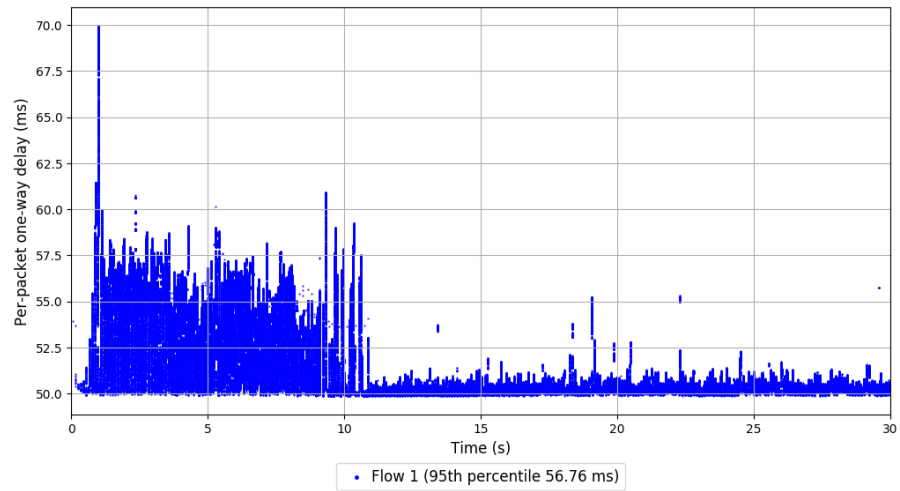
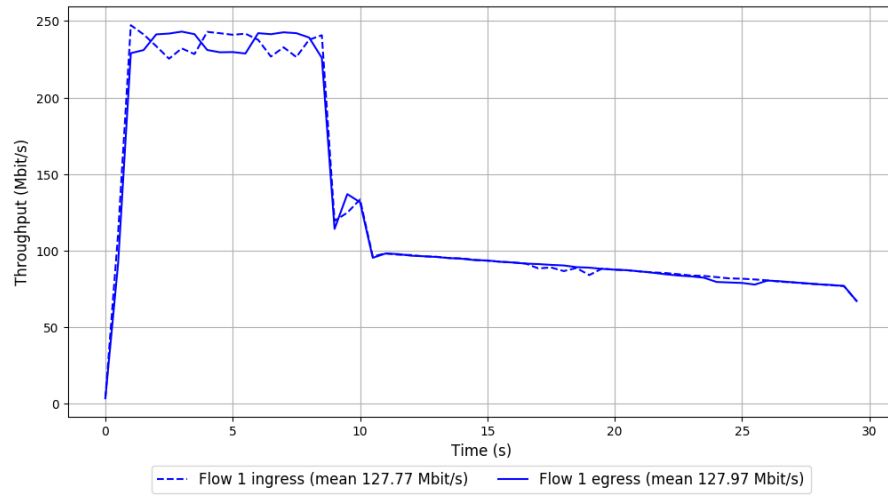
-- Flow 1:

Average throughput: 127.97 Mbit/s

95th percentile per-packet one-way delay: 56.762 ms

Loss rate: 0.20%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-03-20 14:06:08

End at: 2018-03-20 14:06:38

Below is generated by plot.py at 2018-03-20 18:57:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 159.33 Mbit/s

95th percentile per-packet one-way delay: 58.911 ms

Loss rate: 0.24%

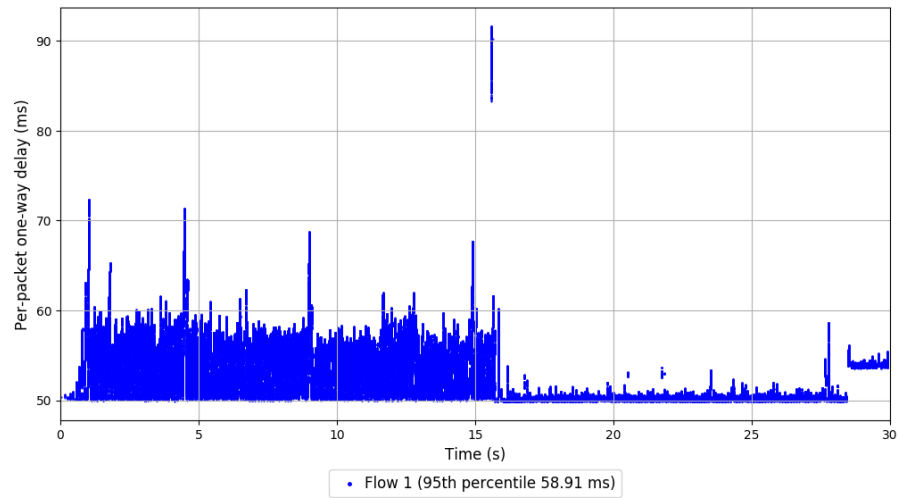
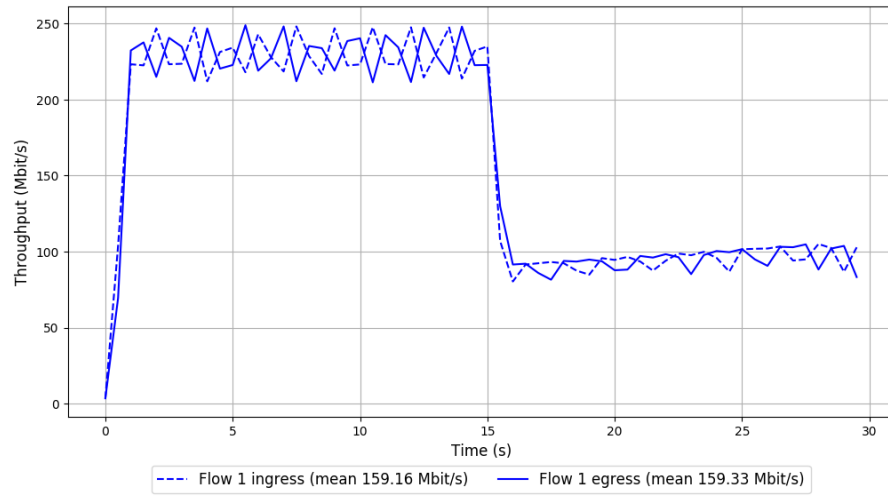
-- Flow 1:

Average throughput: 159.33 Mbit/s

95th percentile per-packet one-way delay: 58.911 ms

Loss rate: 0.24%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-03-20 14:20:32

End at: 2018-03-20 14:21:02

Below is generated by plot.py at 2018-03-20 18:57:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.03 Mbit/s

95th percentile per-packet one-way delay: 51.153 ms

Loss rate: 0.30%

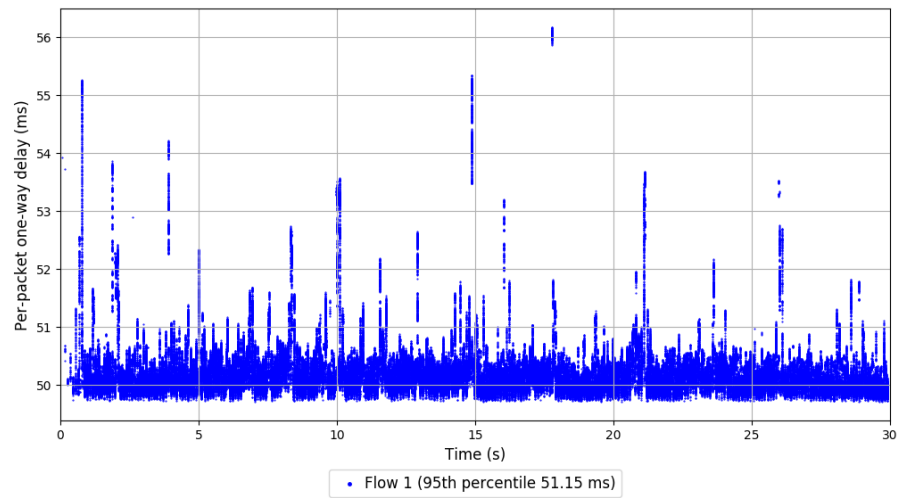
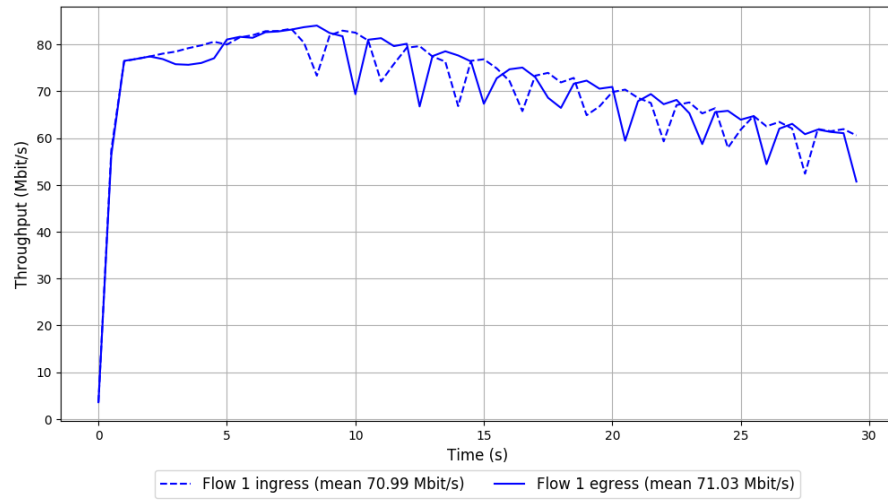
-- Flow 1:

Average throughput: 71.03 Mbit/s

95th percentile per-packet one-way delay: 51.153 ms

Loss rate: 0.30%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-03-20 14:35:02

End at: 2018-03-20 14:35:32

Below is generated by plot.py at 2018-03-20 18:57:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.33 Mbit/s

95th percentile per-packet one-way delay: 57.668 ms

Loss rate: 0.24%

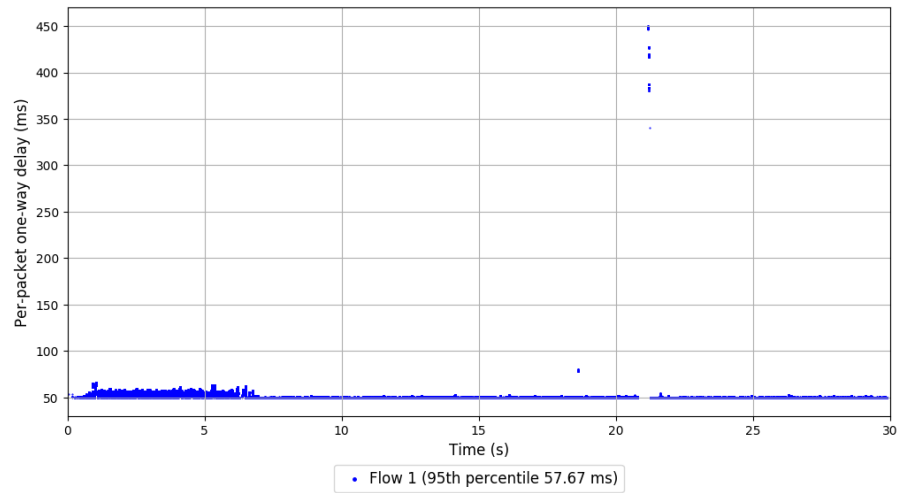
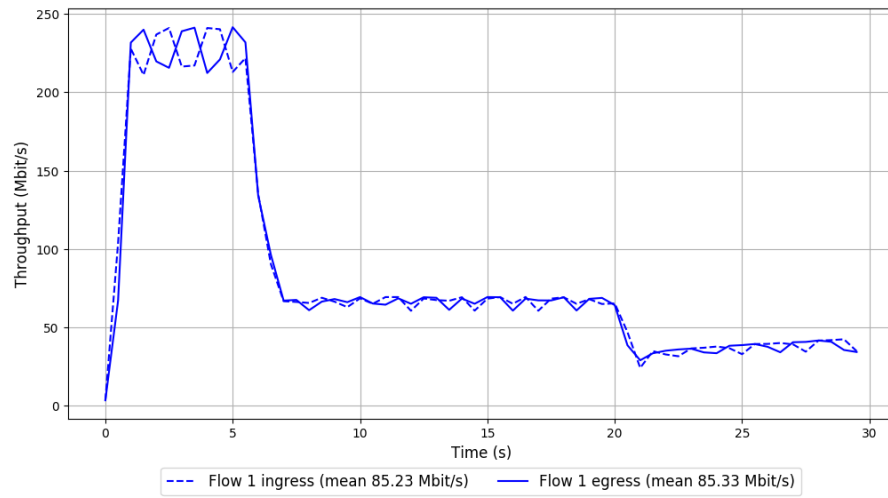
-- Flow 1:

Average throughput: 85.33 Mbit/s

95th percentile per-packet one-way delay: 57.668 ms

Loss rate: 0.24%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-03-20 14:49:20

End at: 2018-03-20 14:49:50

Below is generated by plot.py at 2018-03-20 18:59:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.44 Mbit/s

95th percentile per-packet one-way delay: 58.794 ms

Loss rate: 0.12%

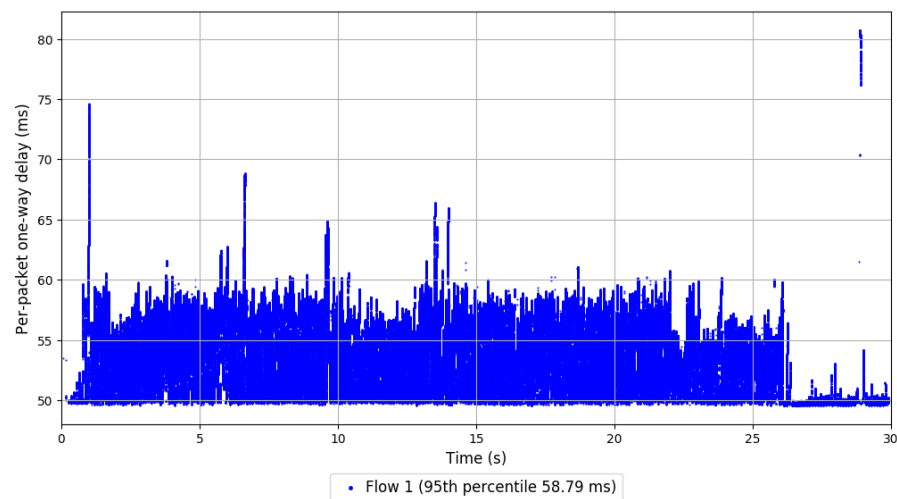
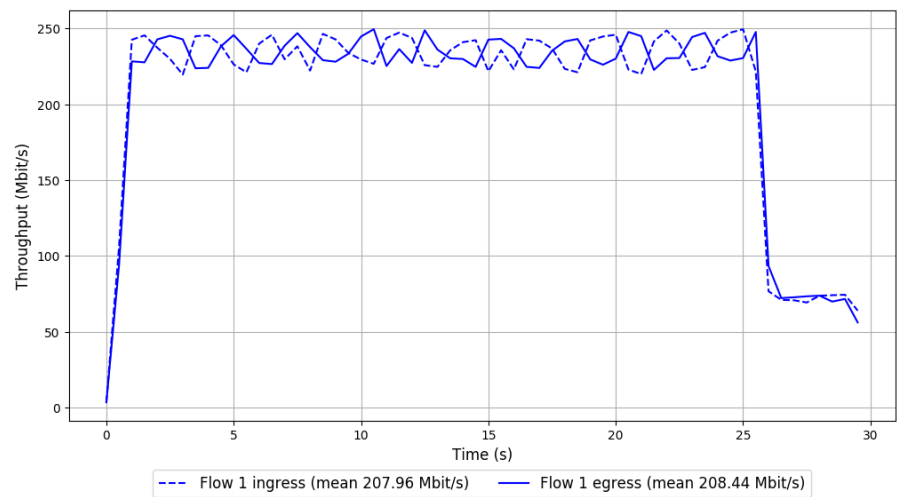
-- Flow 1:

Average throughput: 208.44 Mbit/s

95th percentile per-packet one-way delay: 58.794 ms

Loss rate: 0.12%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-03-20 15:03:59

End at: 2018-03-20 15:04:29

Below is generated by plot.py at 2018-03-20 19:00:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.31 Mbit/s

95th percentile per-packet one-way delay: 58.863 ms

Loss rate: 0.37%

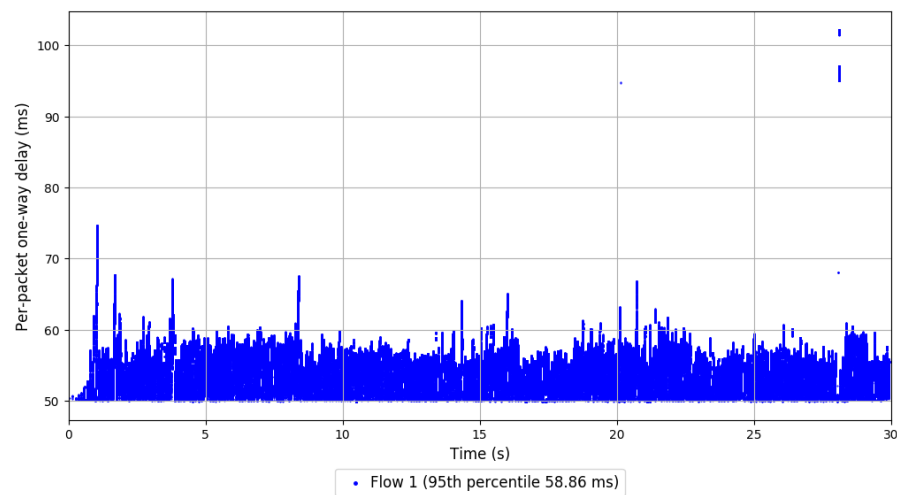
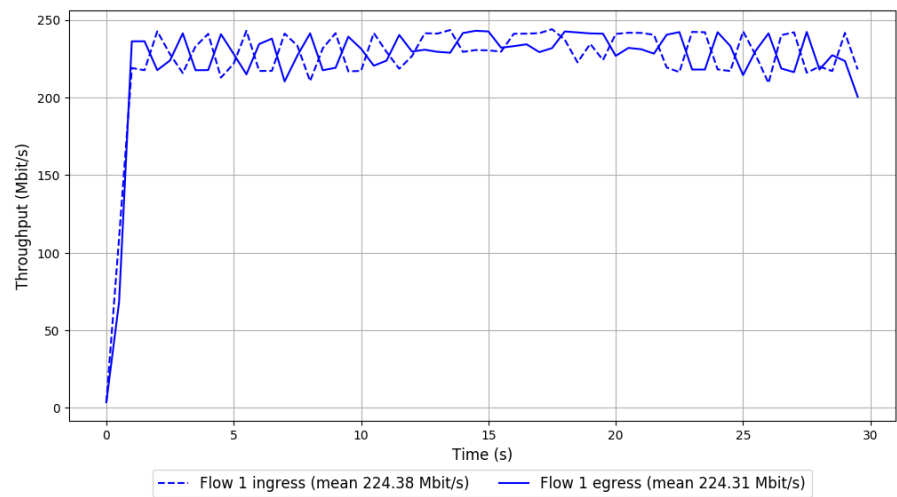
-- Flow 1:

Average throughput: 224.31 Mbit/s

95th percentile per-packet one-way delay: 58.863 ms

Loss rate: 0.37%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-03-20 15:18:33

End at: 2018-03-20 15:19:03

Below is generated by plot.py at 2018-03-20 19:00:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.81 Mbit/s

95th percentile per-packet one-way delay: 51.804 ms

Loss rate: 0.39%

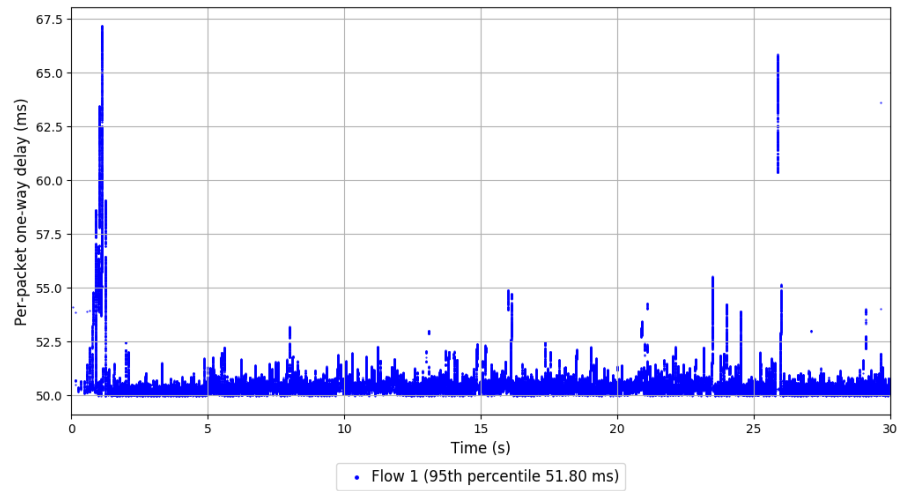
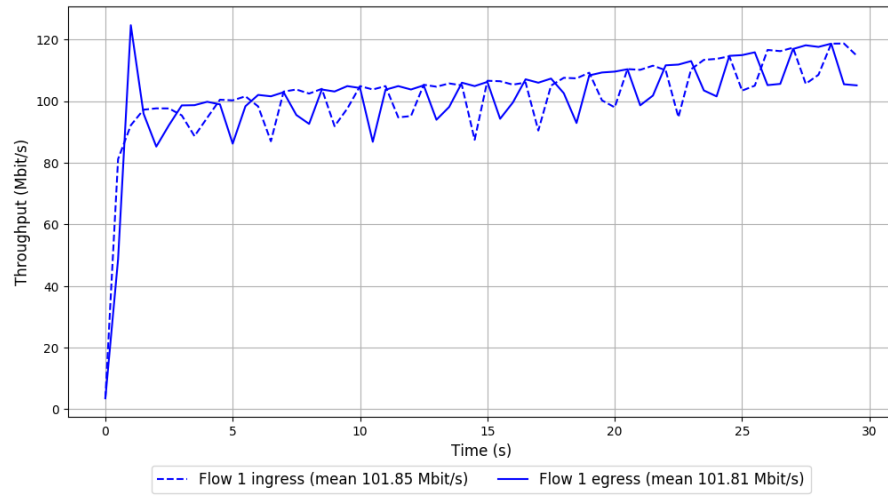
-- Flow 1:

Average throughput: 101.81 Mbit/s

95th percentile per-packet one-way delay: 51.804 ms

Loss rate: 0.39%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-03-20 15:33:03

End at: 2018-03-20 15:33:33

Below is generated by plot.py at 2018-03-20 19:00:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 149.51 Mbit/s

95th percentile per-packet one-way delay: 58.859 ms

Loss rate: 0.15%

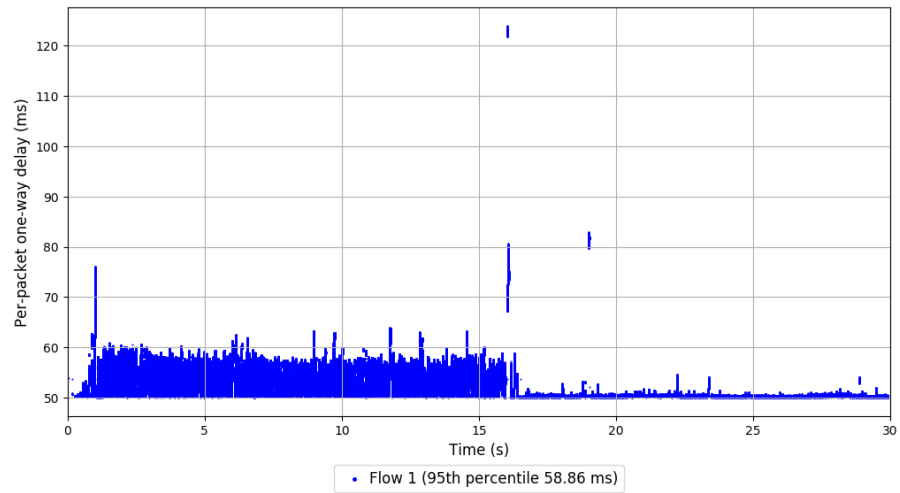
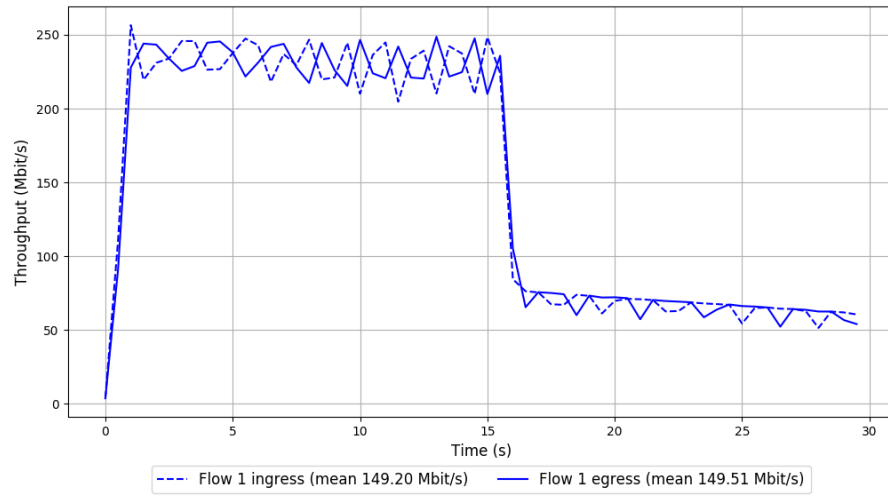
-- Flow 1:

Average throughput: 149.51 Mbit/s

95th percentile per-packet one-way delay: 58.859 ms

Loss rate: 0.15%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-03-20 15:47:22

End at: 2018-03-20 15:47:52

Below is generated by plot.py at 2018-03-20 19:00:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.35 Mbit/s

95th percentile per-packet one-way delay: 50.869 ms

Loss rate: 0.49%

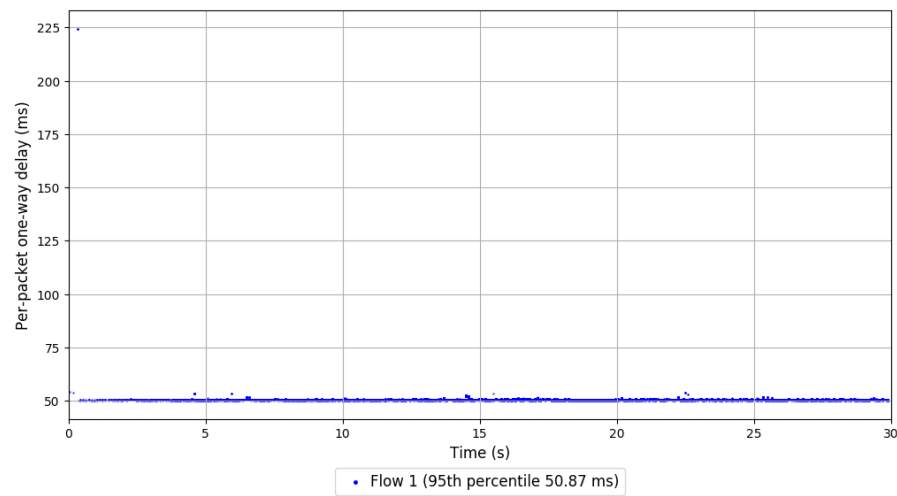
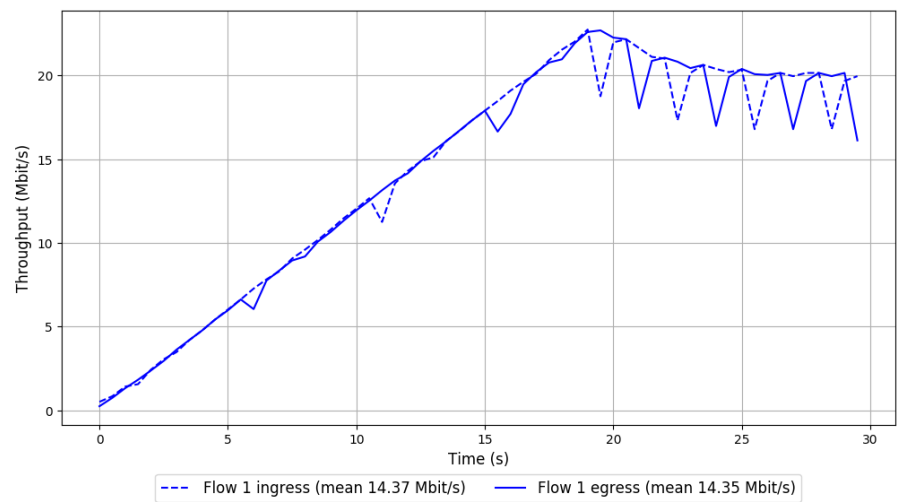
-- Flow 1:

Average throughput: 14.35 Mbit/s

95th percentile per-packet one-way delay: 50.869 ms

Loss rate: 0.49%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-03-20 13:31:37

End at: 2018-03-20 13:32:07

Below is generated by plot.py at 2018-03-20 19:00:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 233.57 Mbit/s

95th percentile per-packet one-way delay: 84.819 ms

Loss rate: 0.67%

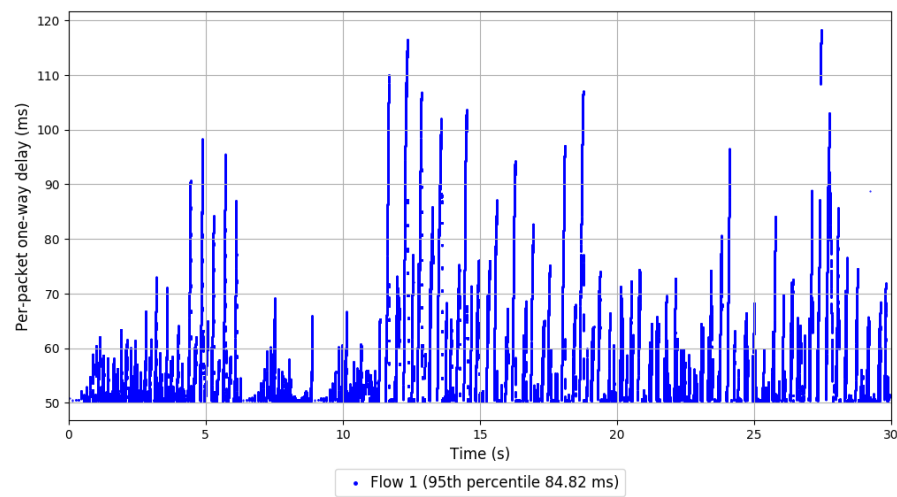
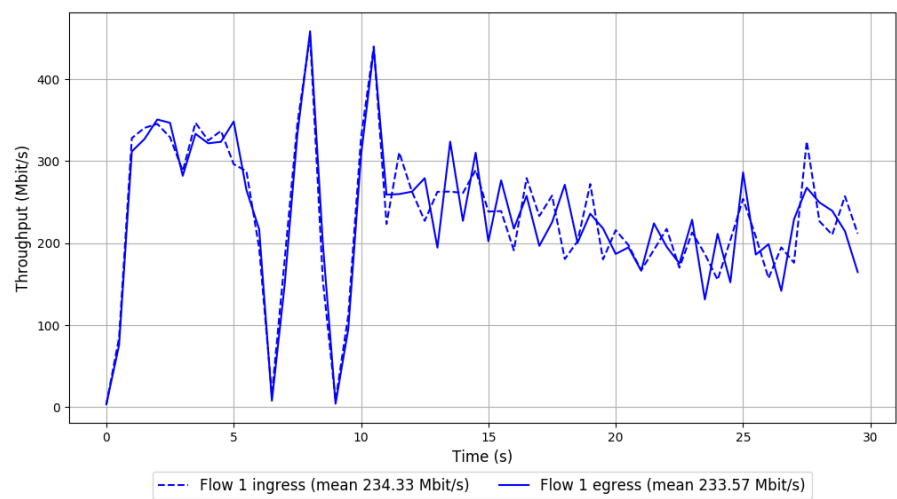
-- Flow 1:

Average throughput: 233.57 Mbit/s

95th percentile per-packet one-way delay: 84.819 ms

Loss rate: 0.67%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-03-20 13:45:59

End at: 2018-03-20 13:46:29

Below is generated by plot.py at 2018-03-20 19:01:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 274.96 Mbit/s

95th percentile per-packet one-way delay: 113.496 ms

Loss rate: 0.36%

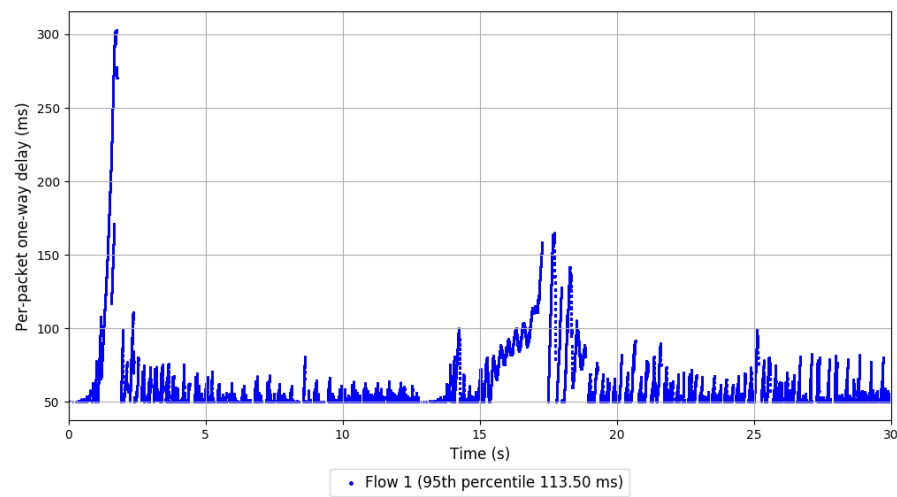
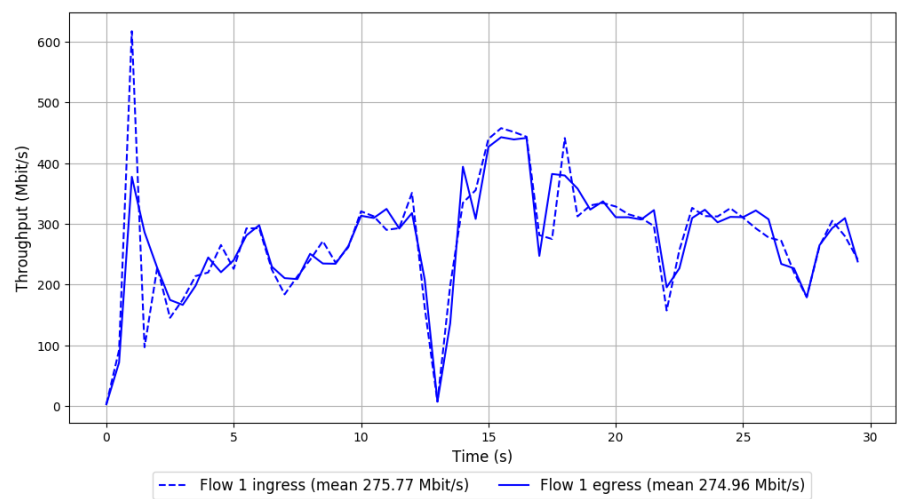
-- Flow 1:

Average throughput: 274.96 Mbit/s

95th percentile per-packet one-way delay: 113.496 ms

Loss rate: 0.36%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-03-20 14:00:19

End at: 2018-03-20 14:00:49

Below is generated by plot.py at 2018-03-20 19:01:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 234.84 Mbit/s

95th percentile per-packet one-way delay: 224.738 ms

Loss rate: 0.64%

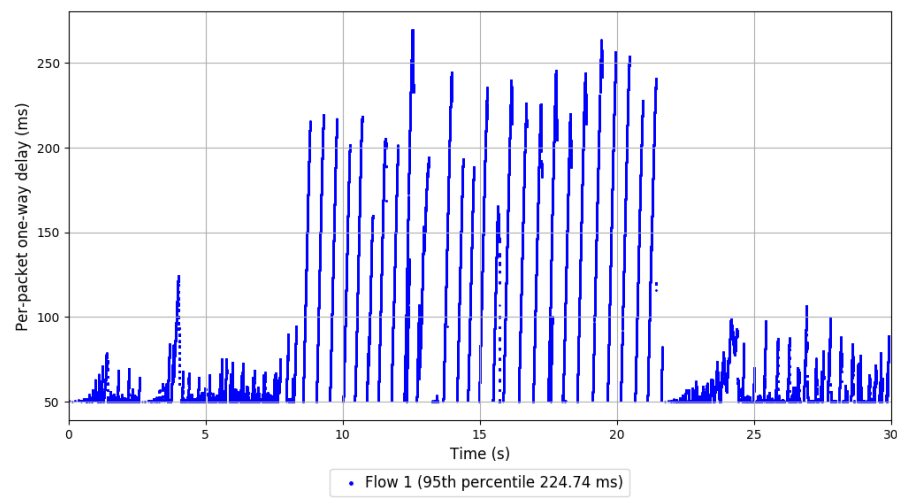
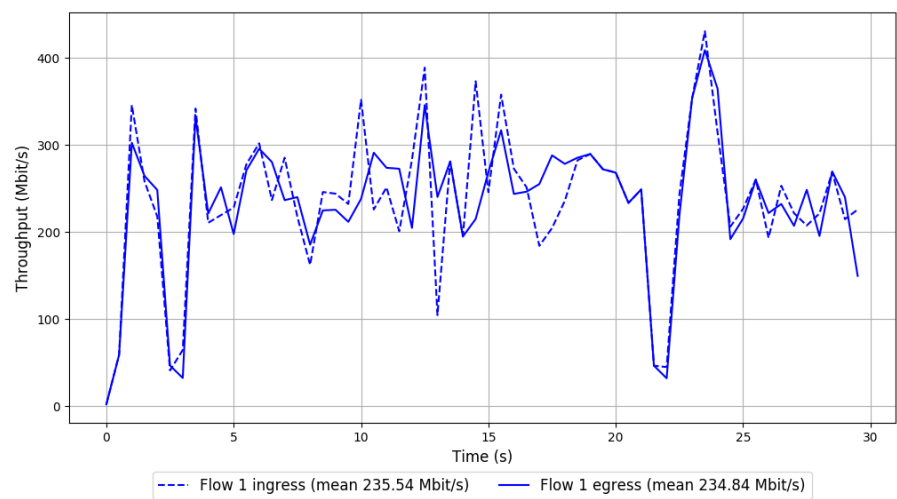
-- Flow 1:

Average throughput: 234.84 Mbit/s

95th percentile per-packet one-way delay: 224.738 ms

Loss rate: 0.64%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-03-20 14:14:48

End at: 2018-03-20 14:15:18

Below is generated by plot.py at 2018-03-20 19:01:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.71 Mbit/s

95th percentile per-packet one-way delay: 146.965 ms

Loss rate: 0.10%

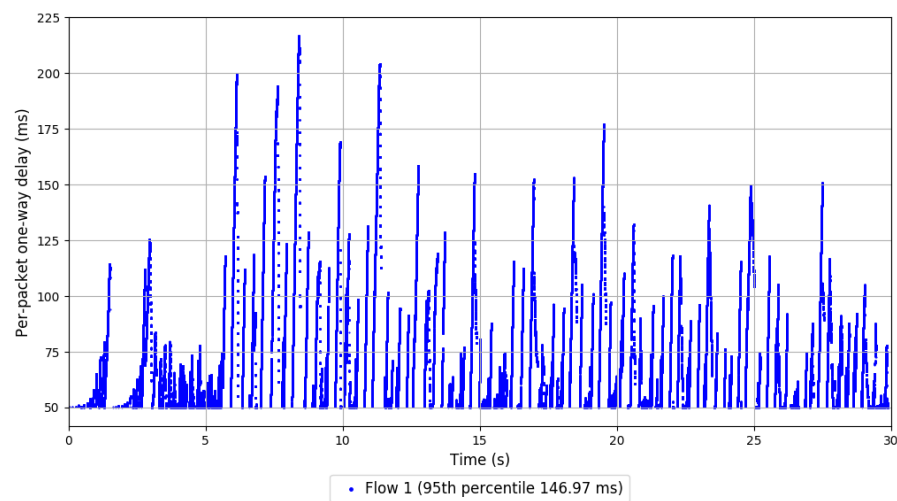
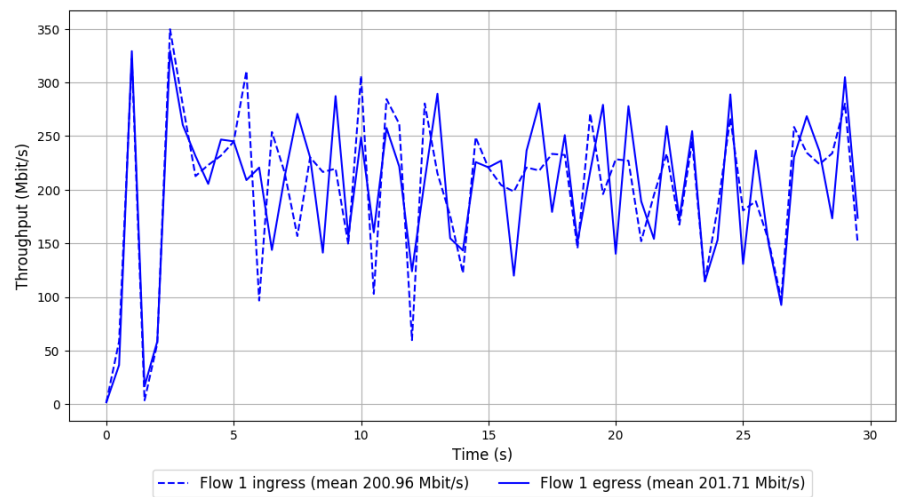
-- Flow 1:

Average throughput: 201.71 Mbit/s

95th percentile per-packet one-way delay: 146.965 ms

Loss rate: 0.10%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-03-20 14:29:32

End at: 2018-03-20 14:30:02

Below is generated by plot.py at 2018-03-20 19:02:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.94 Mbit/s

95th percentile per-packet one-way delay: 79.044 ms

Loss rate: 1.18%

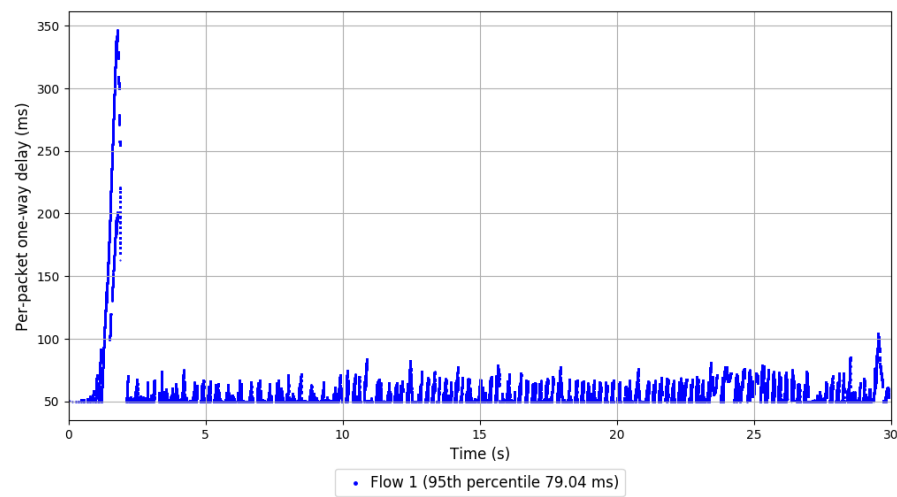
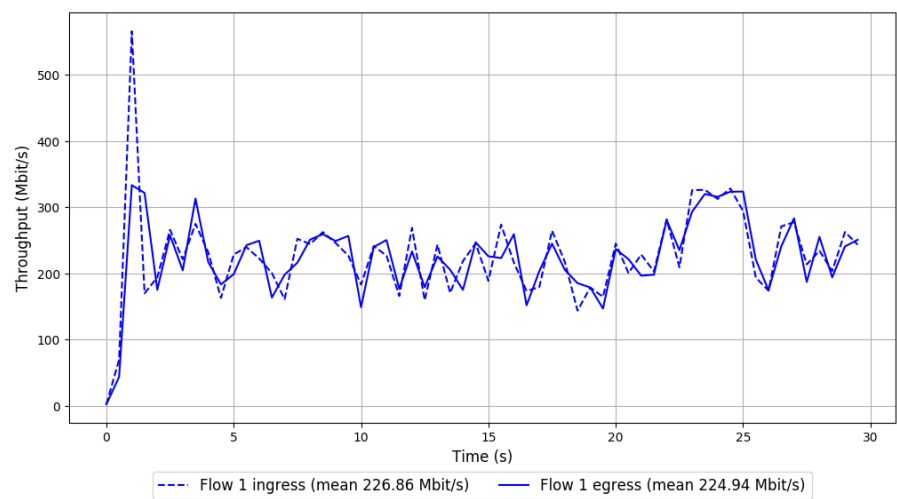
-- Flow 1:

Average throughput: 224.94 Mbit/s

95th percentile per-packet one-way delay: 79.044 ms

Loss rate: 1.18%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-03-20 14:43:44

End at: 2018-03-20 14:44:14

Below is generated by plot.py at 2018-03-20 19:03:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.35 Mbit/s

95th percentile per-packet one-way delay: 79.462 ms

Loss rate: 0.59%

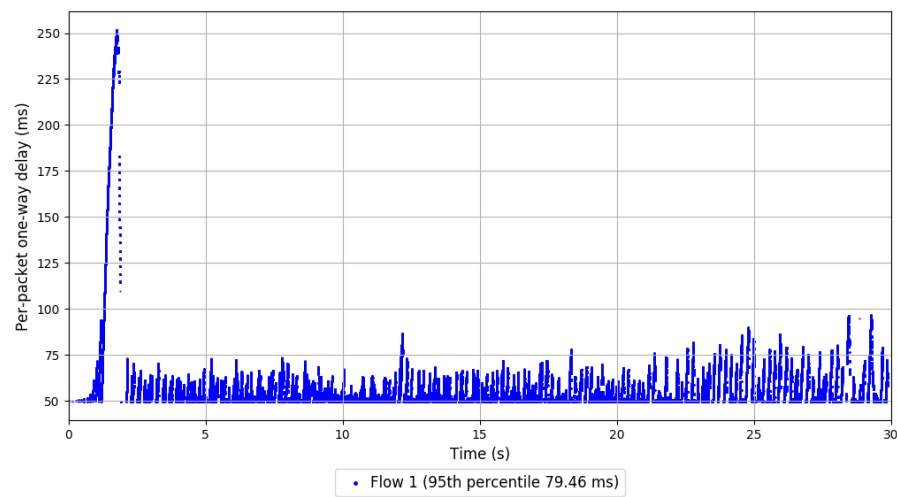
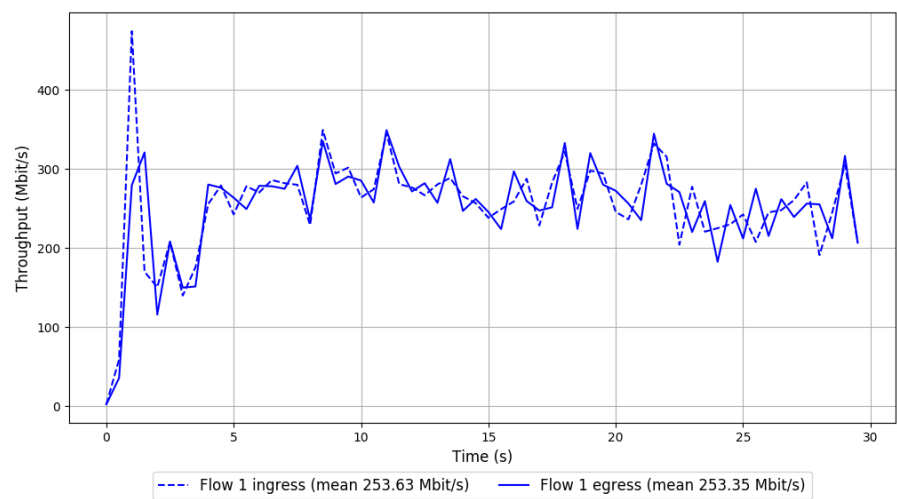
-- Flow 1:

Average throughput: 253.35 Mbit/s

95th percentile per-packet one-way delay: 79.462 ms

Loss rate: 0.59%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-03-20 14:58:09

End at: 2018-03-20 14:58:39

Below is generated by plot.py at 2018-03-20 19:03:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.32 Mbit/s

95th percentile per-packet one-way delay: 110.578 ms

Loss rate: 0.85%

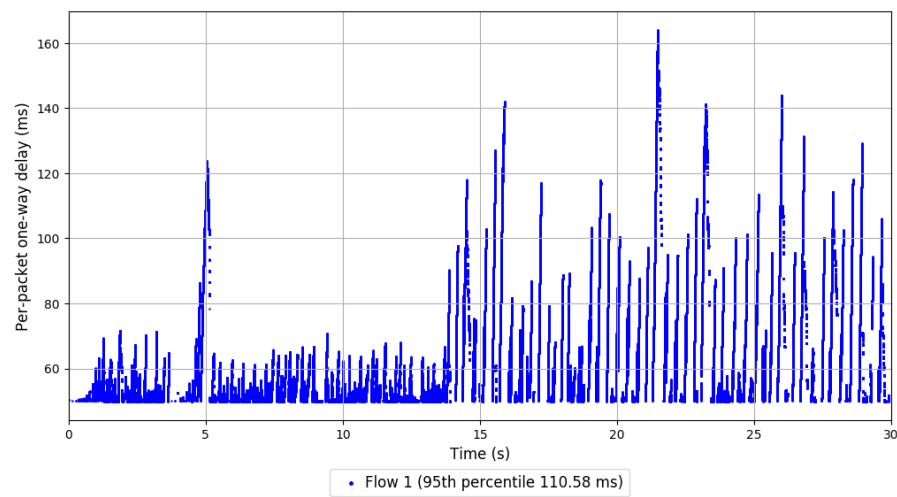
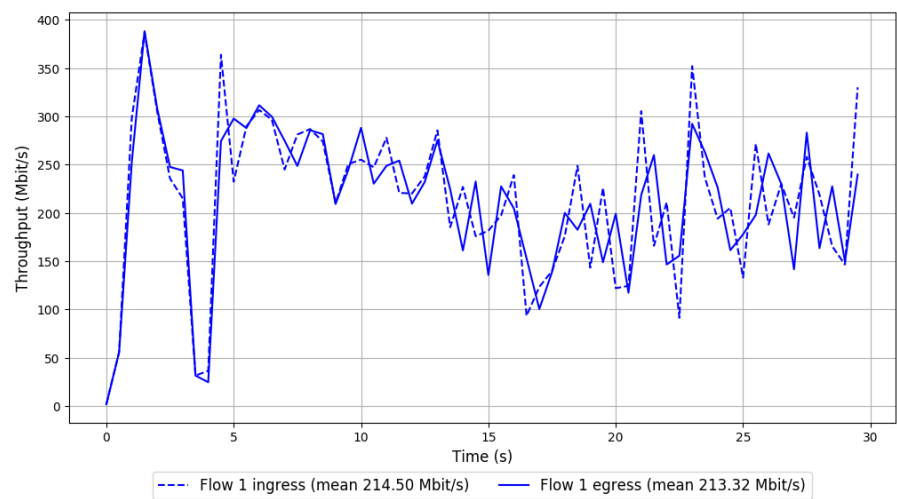
-- Flow 1:

Average throughput: 213.32 Mbit/s

95th percentile per-packet one-way delay: 110.578 ms

Loss rate: 0.85%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-03-20 15:12:46

End at: 2018-03-20 15:13:16

Below is generated by plot.py at 2018-03-20 19:04:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 230.57 Mbit/s

95th percentile per-packet one-way delay: 79.305 ms

Loss rate: 0.09%

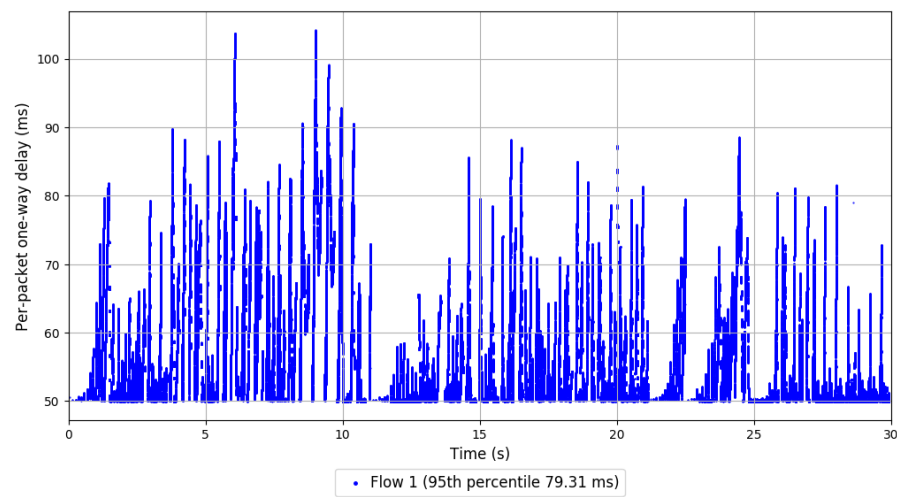
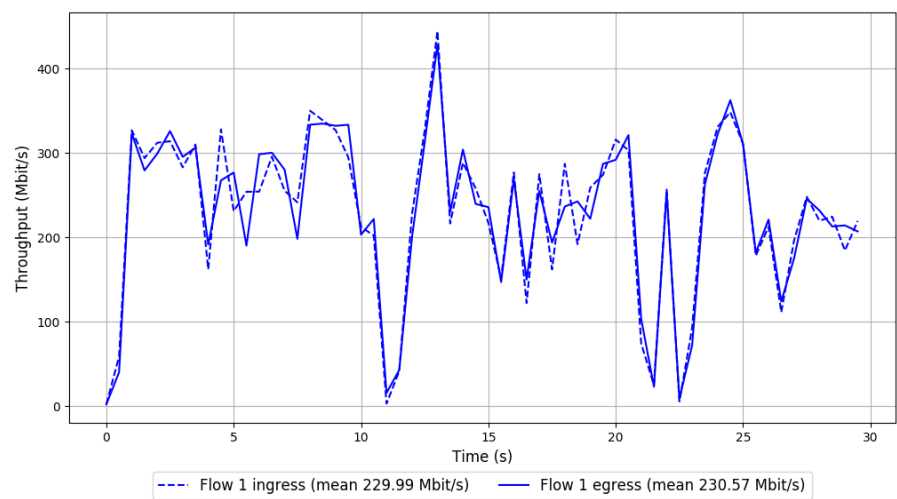
-- Flow 1:

Average throughput: 230.57 Mbit/s

95th percentile per-packet one-way delay: 79.305 ms

Loss rate: 0.09%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-03-20 15:27:19

End at: 2018-03-20 15:27:49

Below is generated by plot.py at 2018-03-20 19:04:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.48 Mbit/s

95th percentile per-packet one-way delay: 79.755 ms

Loss rate: 0.34%

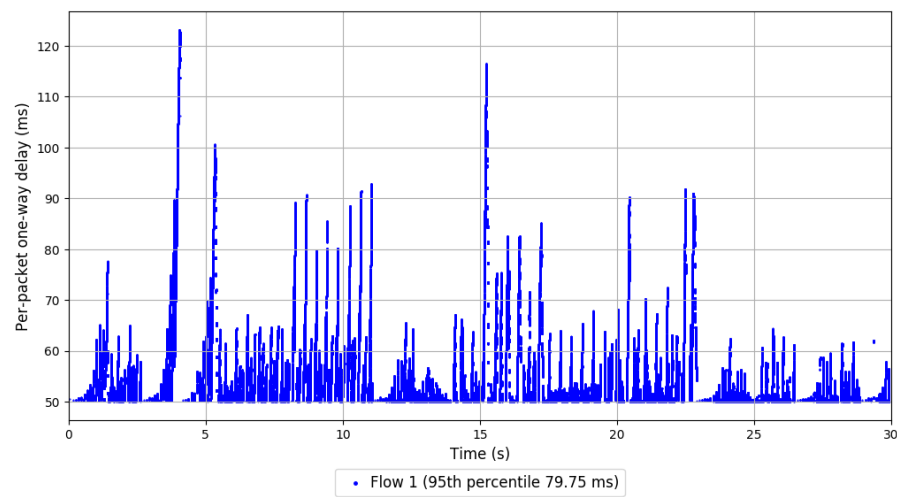
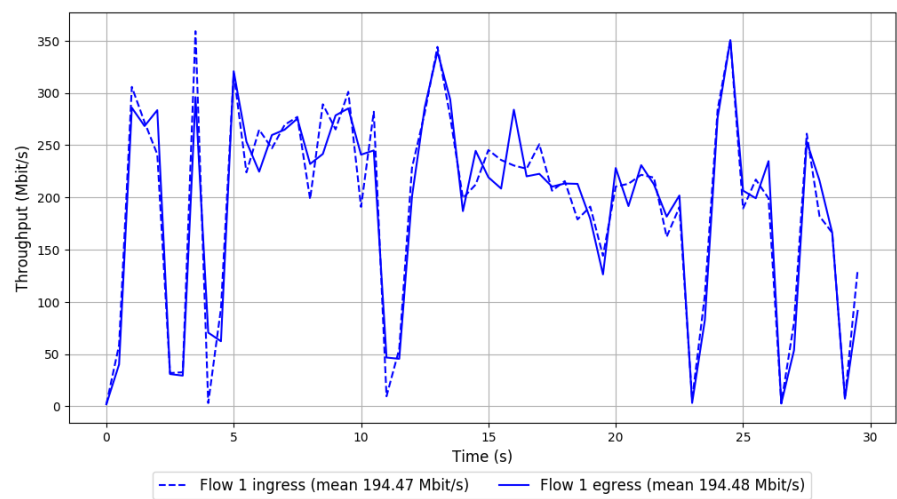
-- Flow 1:

Average throughput: 194.48 Mbit/s

95th percentile per-packet one-way delay: 79.755 ms

Loss rate: 0.34%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-03-20 15:41:50

End at: 2018-03-20 15:42:20

Below is generated by plot.py at 2018-03-20 19:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.01 Mbit/s

95th percentile per-packet one-way delay: 104.285 ms

Loss rate: 1.12%

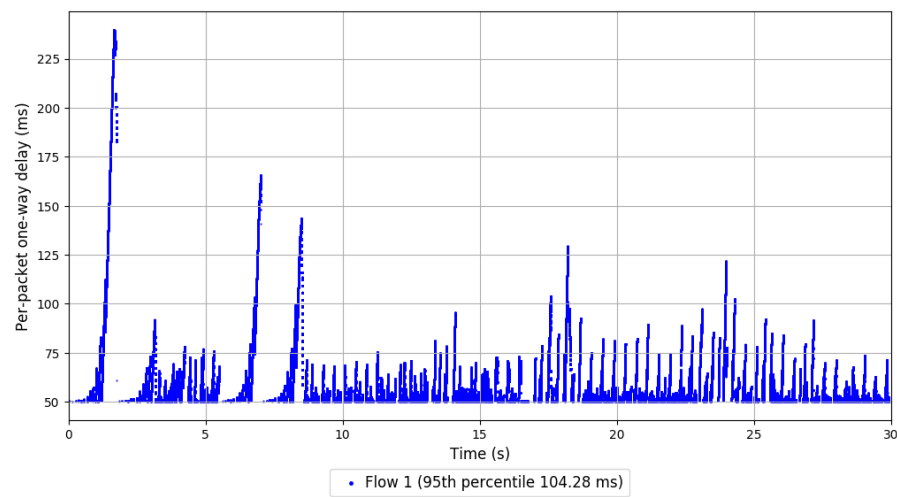
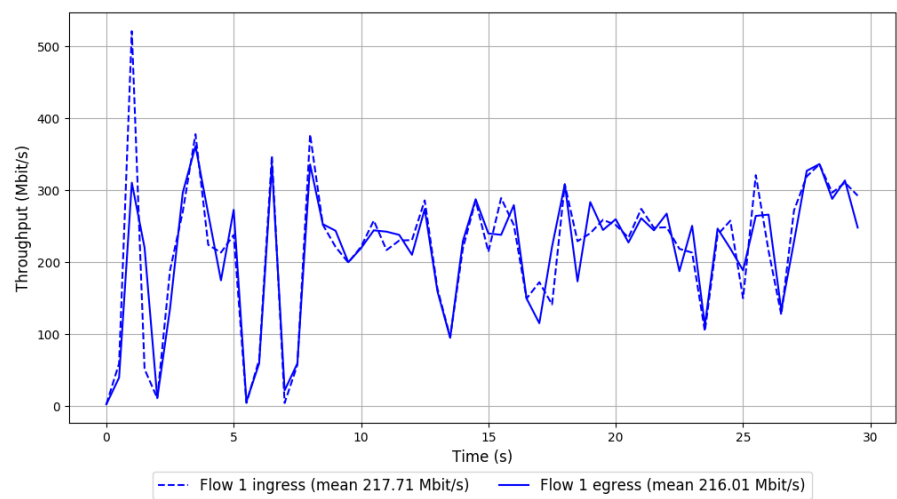
-- Flow 1:

Average throughput: 216.01 Mbit/s

95th percentile per-packet one-way delay: 104.285 ms

Loss rate: 1.12%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-03-20 13:42:18

End at: 2018-03-20 13:42:48

Below is generated by plot.py at 2018-03-20 19:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 108.05 Mbit/s

95th percentile per-packet one-way delay: 53.801 ms

Loss rate: 0.42%

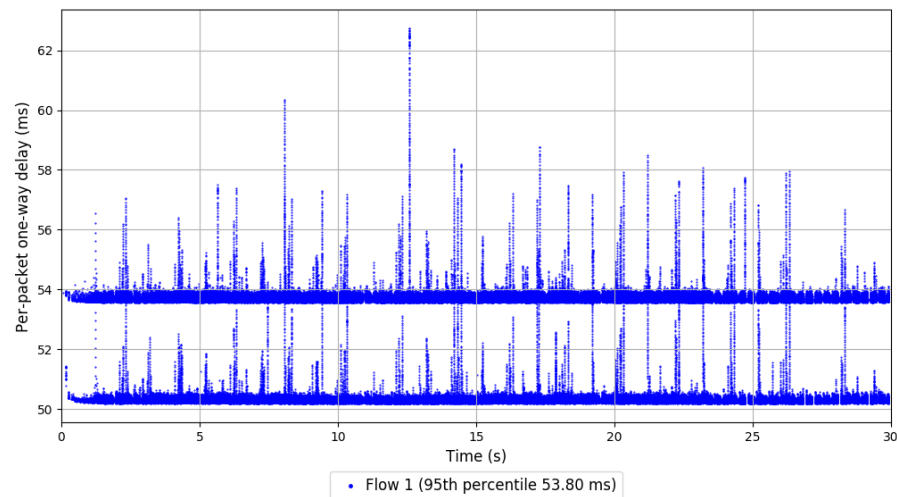
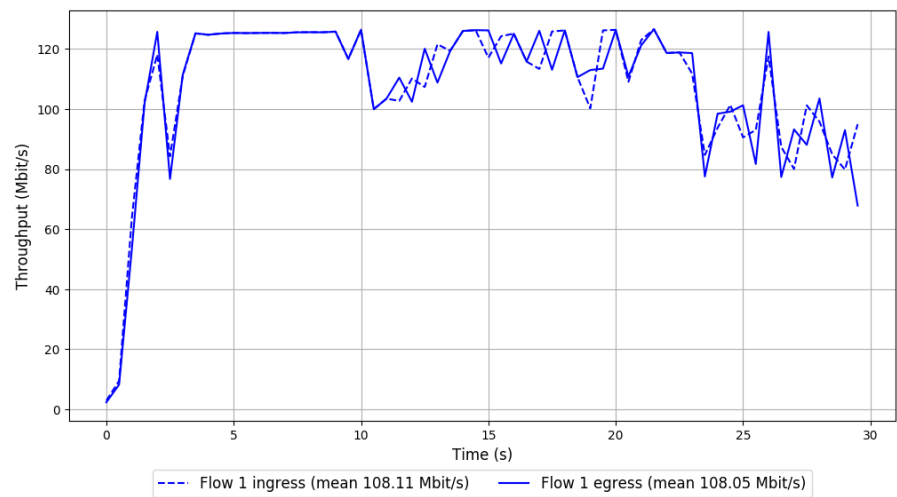
-- Flow 1:

Average throughput: 108.05 Mbit/s

95th percentile per-packet one-way delay: 53.801 ms

Loss rate: 0.42%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-03-20 13:56:35

End at: 2018-03-20 13:57:05

Below is generated by plot.py at 2018-03-20 19:04:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.04 Mbit/s

95th percentile per-packet one-way delay: 50.519 ms

Loss rate: 0.34%

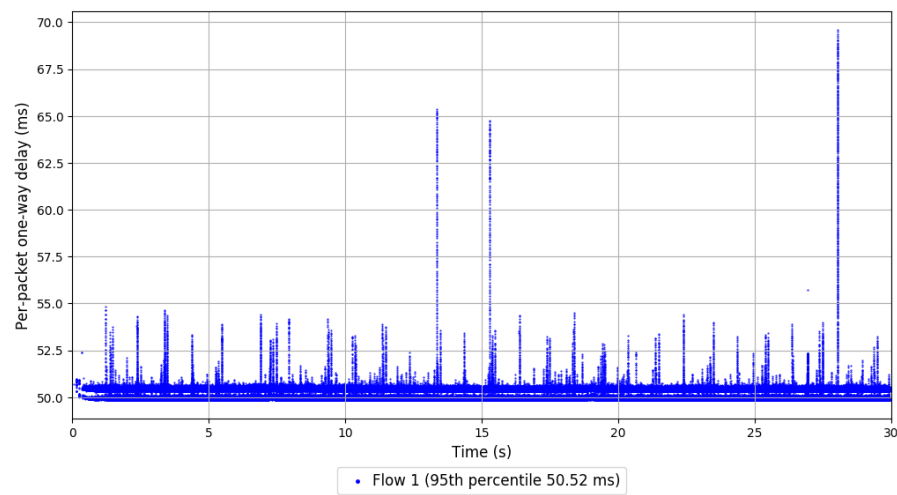
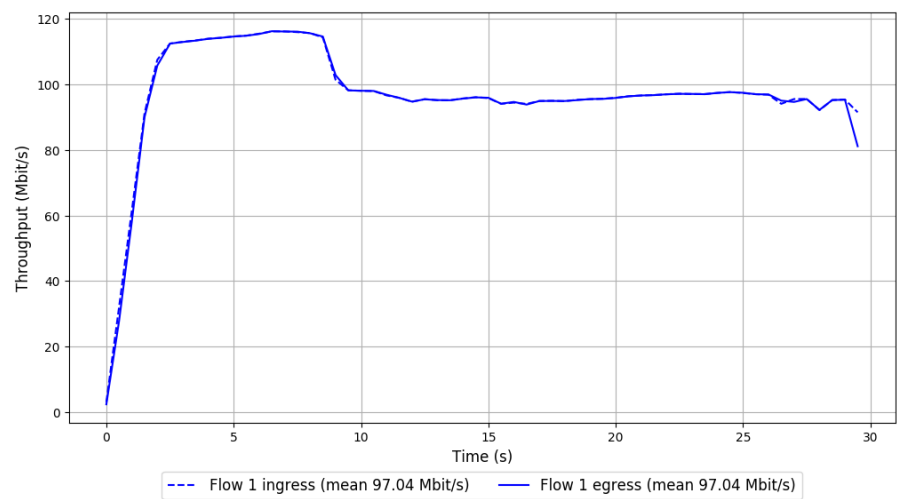
-- Flow 1:

Average throughput: 97.04 Mbit/s

95th percentile per-packet one-way delay: 50.519 ms

Loss rate: 0.34%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-03-20 14:11:06

End at: 2018-03-20 14:11:36

Below is generated by plot.py at 2018-03-20 19:05:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.87 Mbit/s

95th percentile per-packet one-way delay: 53.885 ms

Loss rate: 0.49%

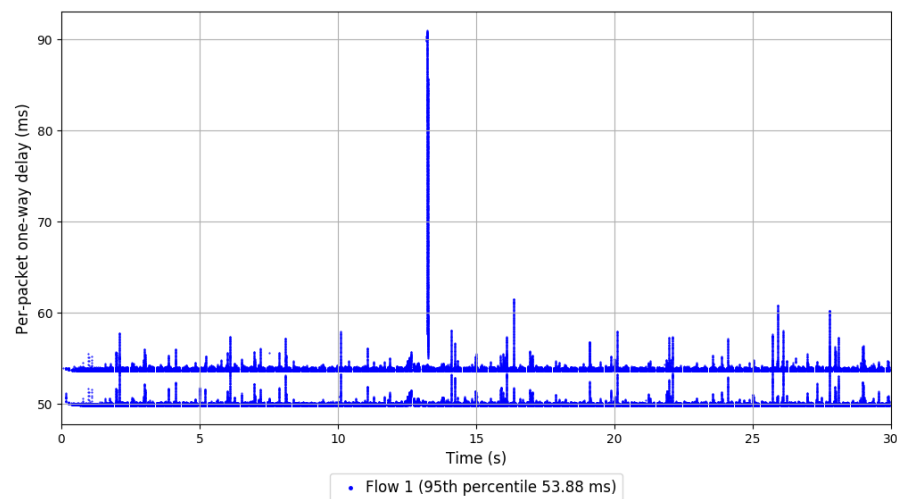
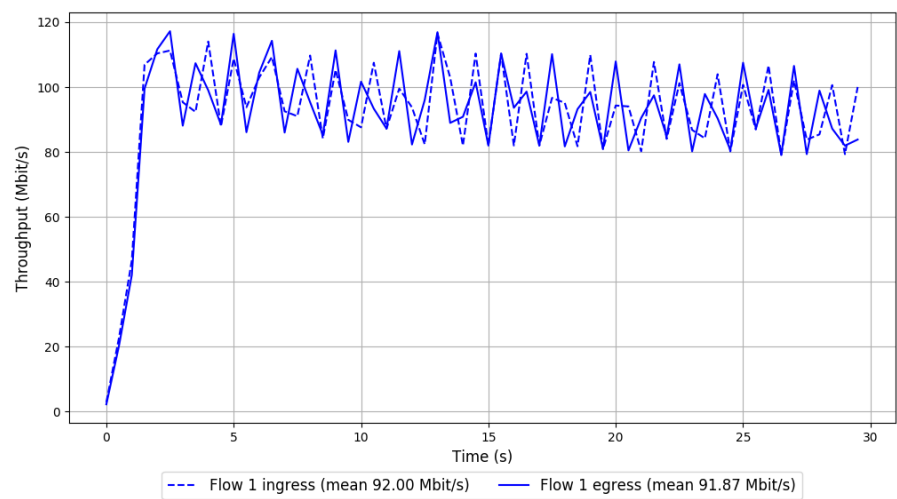
-- Flow 1:

Average throughput: 91.87 Mbit/s

95th percentile per-packet one-way delay: 53.885 ms

Loss rate: 0.49%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-03-20 14:25:28

End at: 2018-03-20 14:25:58

Below is generated by plot.py at 2018-03-20 19:15:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 400.72 Mbit/s

95th percentile per-packet one-way delay: 249.412 ms

Loss rate: 35.42%

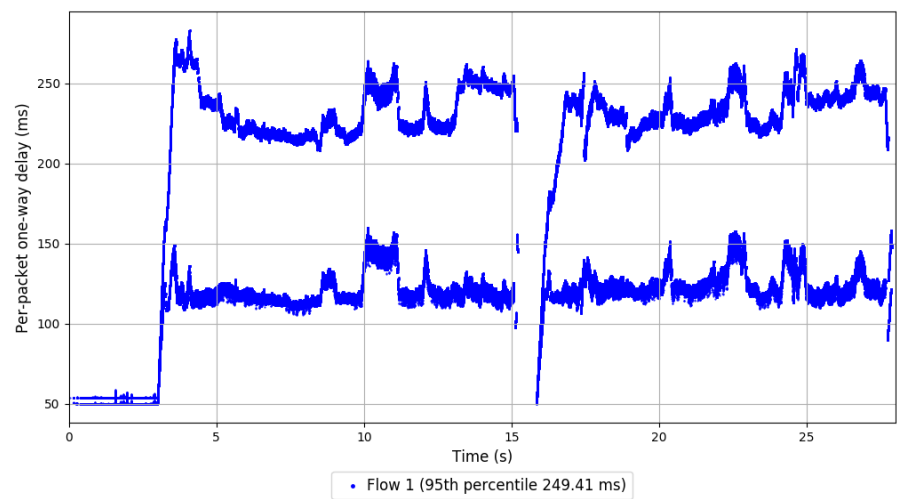
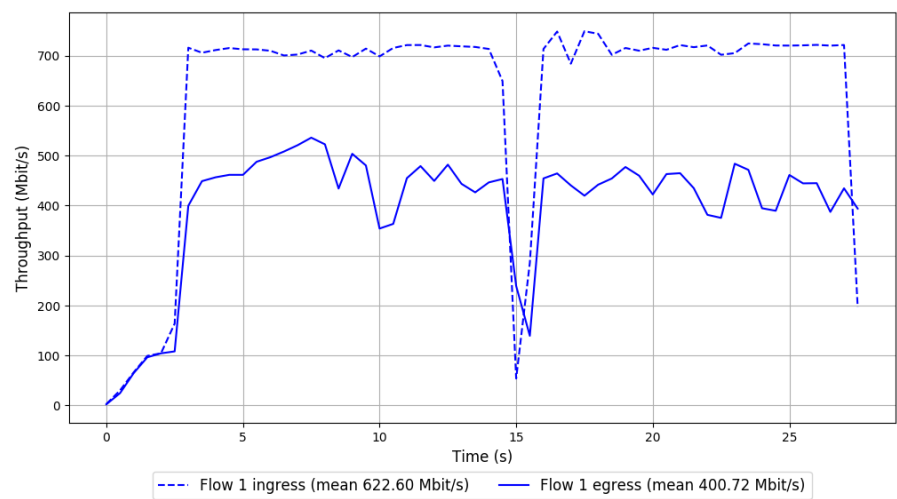
-- Flow 1:

Average throughput: 400.72 Mbit/s

95th percentile per-packet one-way delay: 249.412 ms

Loss rate: 35.42%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-03-20 14:40:02

End at: 2018-03-20 14:40:32

Below is generated by plot.py at 2018-03-20 19:15:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.95 Mbit/s

95th percentile per-packet one-way delay: 53.372 ms

Loss rate: 0.53%

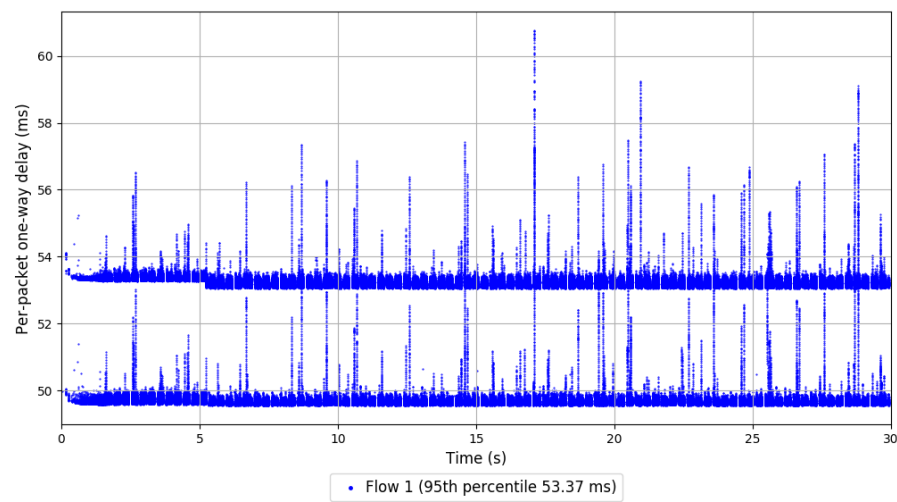
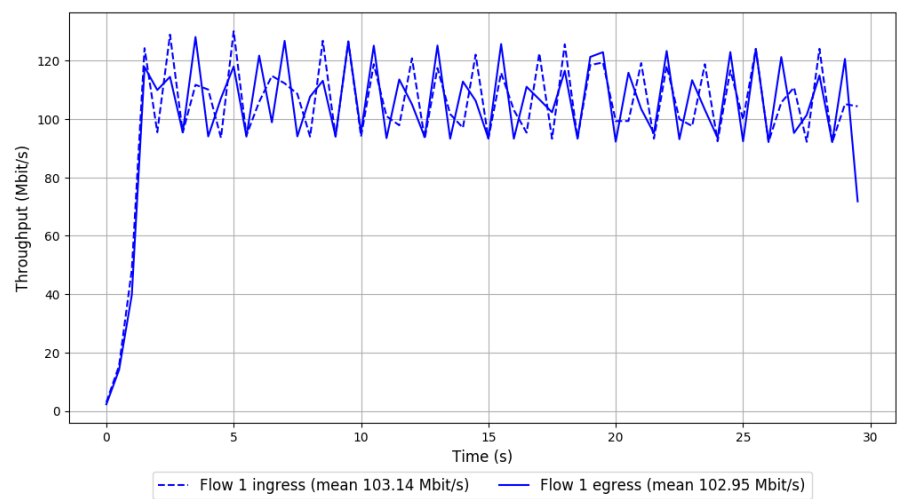
-- Flow 1:

Average throughput: 102.95 Mbit/s

95th percentile per-packet one-way delay: 53.372 ms

Loss rate: 0.53%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-03-20 14:54:26

End at: 2018-03-20 14:54:56

Below is generated by plot.py at 2018-03-20 19:15:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.79 Mbit/s

95th percentile per-packet one-way delay: 53.761 ms

Loss rate: 0.37%

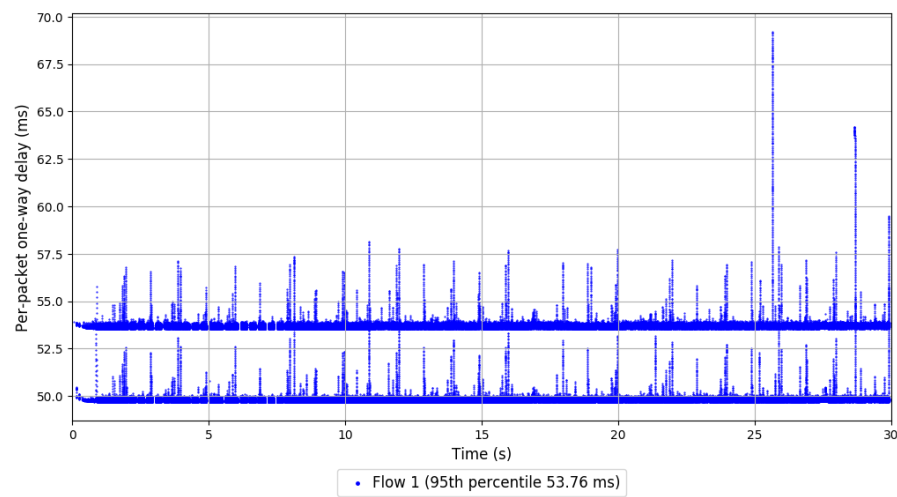
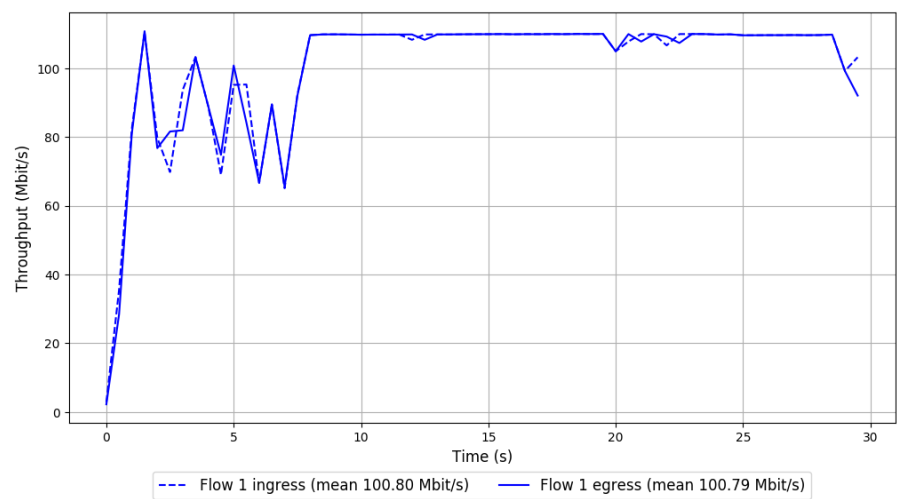
-- Flow 1:

Average throughput: 100.79 Mbit/s

95th percentile per-packet one-way delay: 53.761 ms

Loss rate: 0.37%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-03-20 15:09:03

End at: 2018-03-20 15:09:33

Below is generated by plot.py at 2018-03-20 19:15:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.09 Mbit/s

95th percentile per-packet one-way delay: 50.869 ms

Loss rate: 0.34%

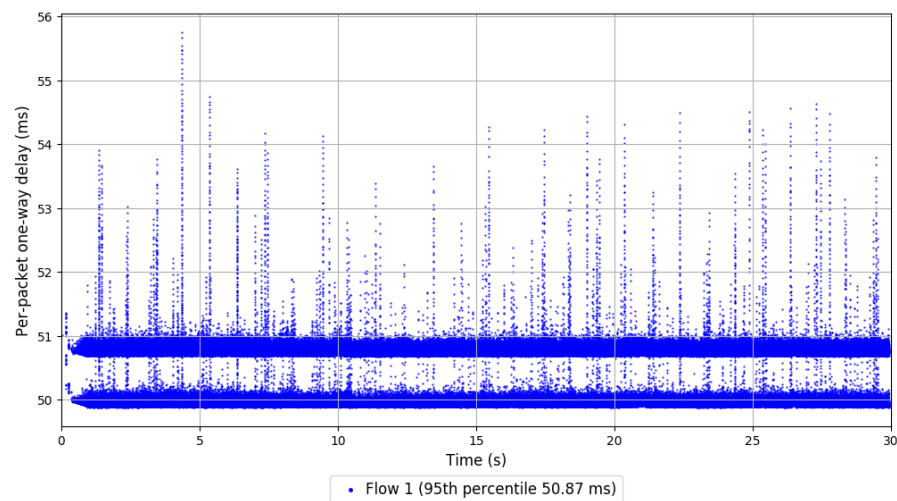
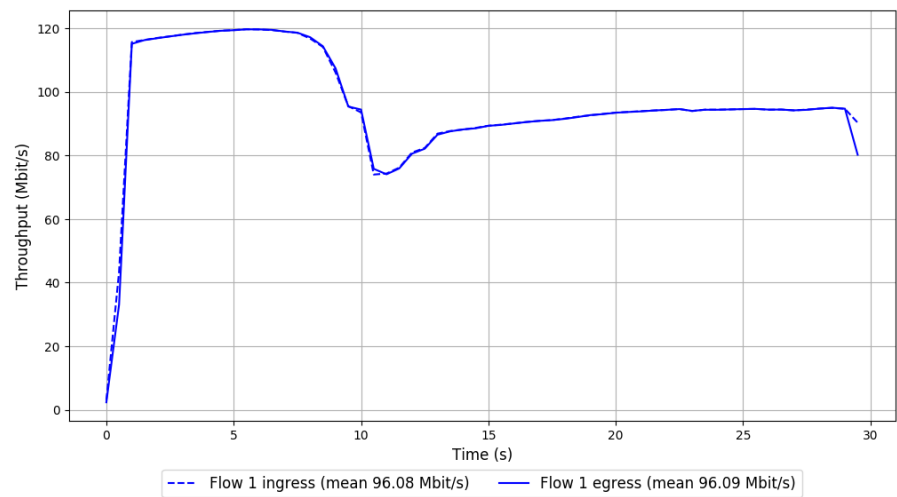
-- Flow 1:

Average throughput: 96.09 Mbit/s

95th percentile per-packet one-way delay: 50.869 ms

Loss rate: 0.34%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-03-20 15:23:36

End at: 2018-03-20 15:24:06

Below is generated by plot.py at 2018-03-20 19:16:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.77 Mbit/s

95th percentile per-packet one-way delay: 53.239 ms

Loss rate: 0.48%

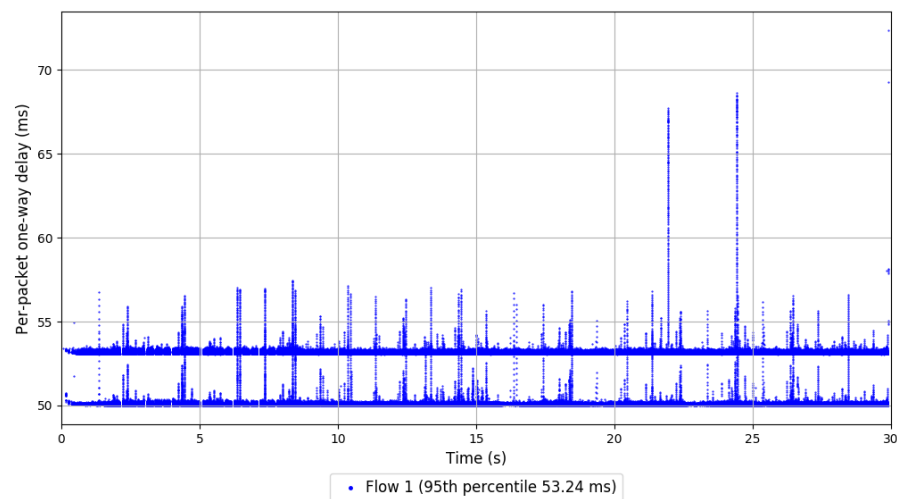
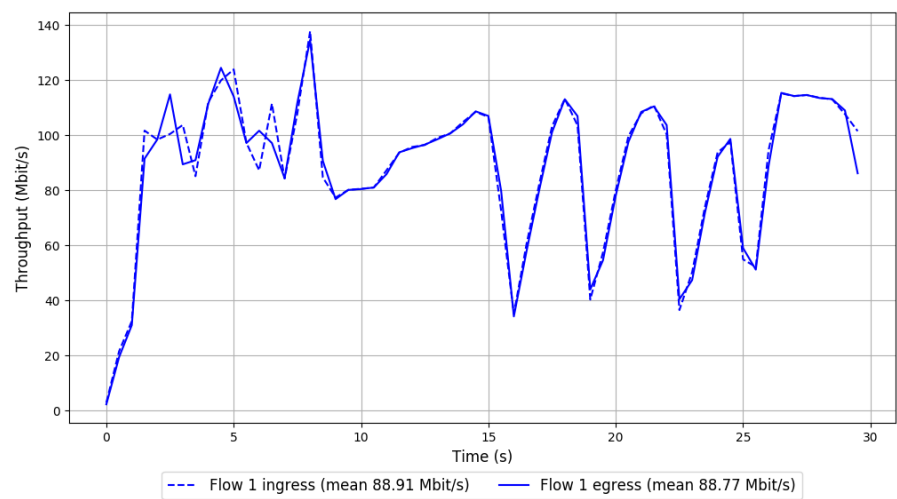
-- Flow 1:

Average throughput: 88.77 Mbit/s

95th percentile per-packet one-way delay: 53.239 ms

Loss rate: 0.48%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-03-20 15:38:06

End at: 2018-03-20 15:38:36

Below is generated by plot.py at 2018-03-20 19:16:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.57 Mbit/s

95th percentile per-packet one-way delay: 50.228 ms

Loss rate: 0.37%

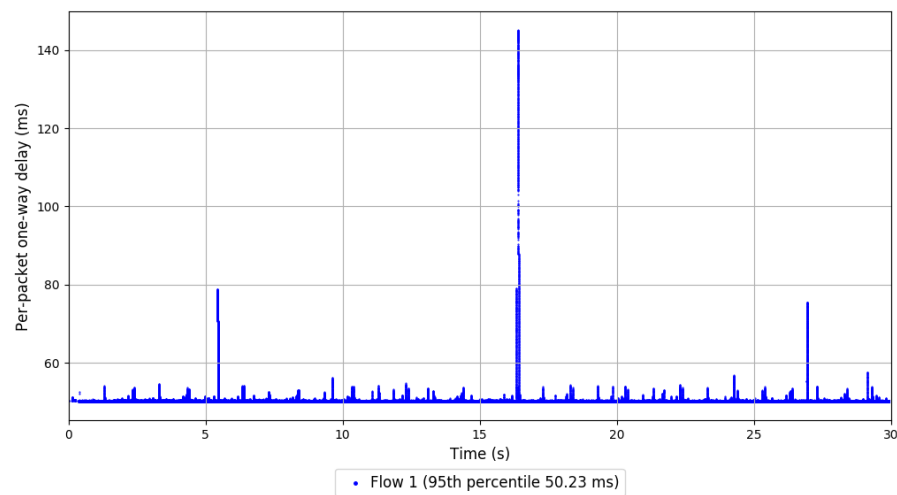
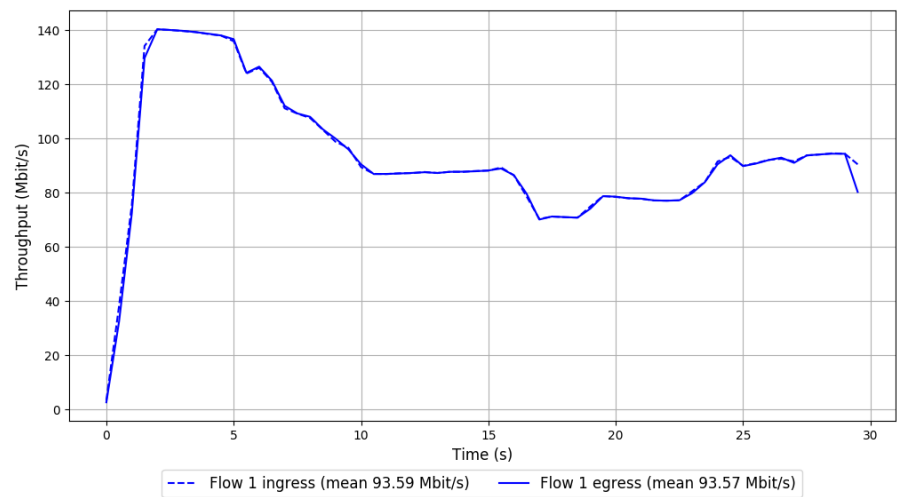
-- Flow 1:

Average throughput: 93.57 Mbit/s

95th percentile per-packet one-way delay: 50.228 ms

Loss rate: 0.37%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-03-20 15:52:31

End at: 2018-03-20 15:53:02

Below is generated by plot.py at 2018-03-20 19:16:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 99.25 Mbit/s

95th percentile per-packet one-way delay: 50.445 ms

Loss rate: 0.32%

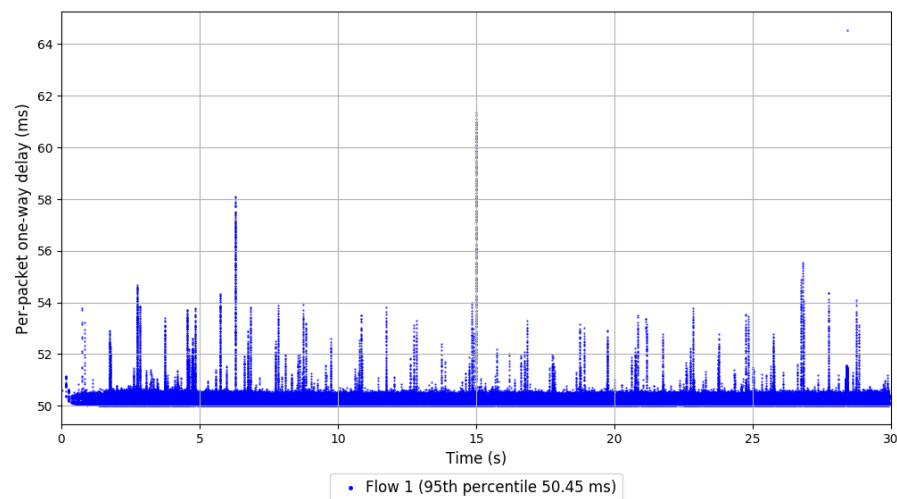
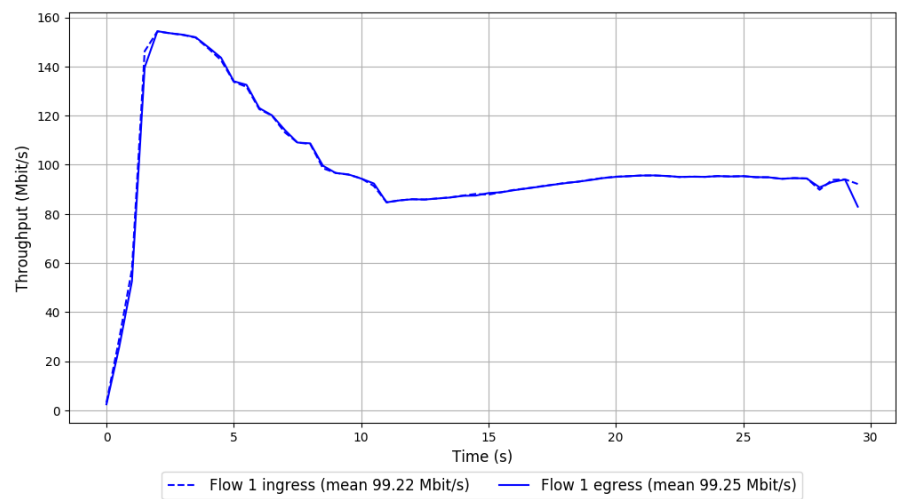
-- Flow 1:

Average throughput: 99.25 Mbit/s

95th percentile per-packet one-way delay: 50.445 ms

Loss rate: 0.32%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-03-20 13:30:33

End at: 2018-03-20 13:31:03

Below is generated by plot.py at 2018-03-20 19:20:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 748.04 Mbit/s

95th percentile per-packet one-way delay: 250.226 ms

Loss rate: 12.04%

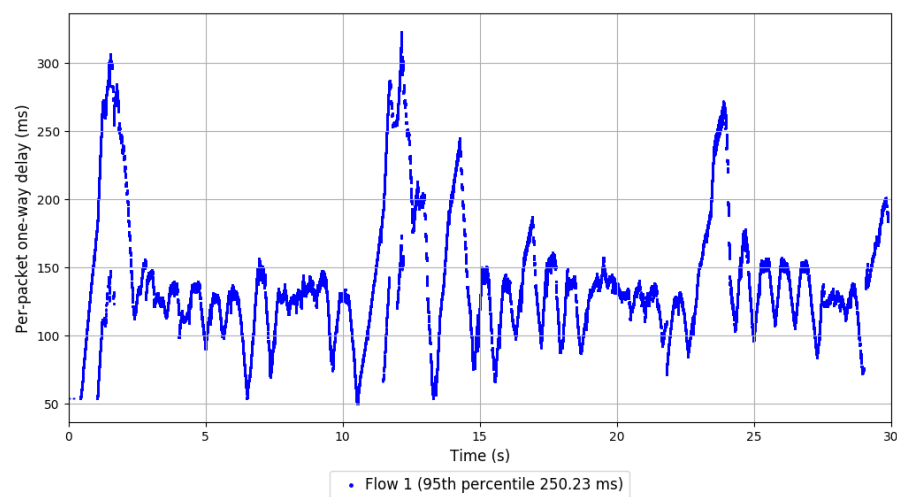
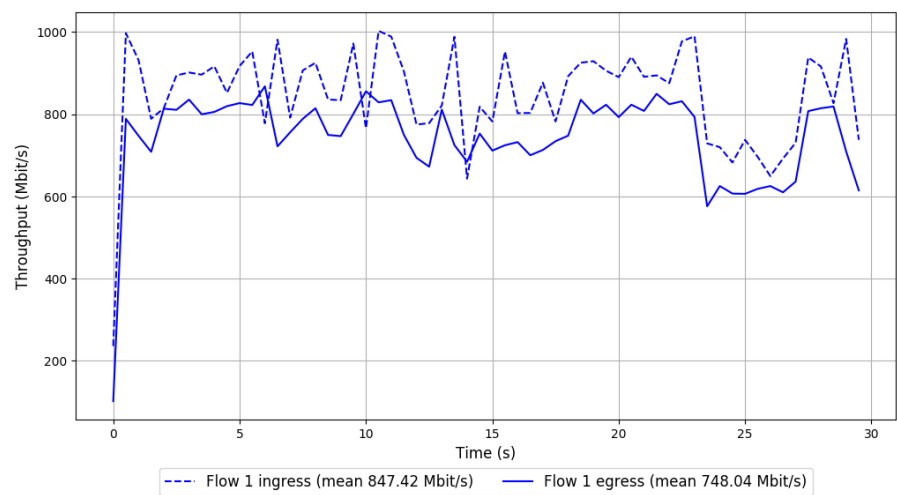
-- Flow 1:

Average throughput: 748.04 Mbit/s

95th percentile per-packet one-way delay: 250.226 ms

Loss rate: 12.04%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-03-20 13:44:55

End at: 2018-03-20 13:45:25

Below is generated by plot.py at 2018-03-20 19:20:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 723.28 Mbit/s

95th percentile per-packet one-way delay: 206.604 ms

Loss rate: 11.42%

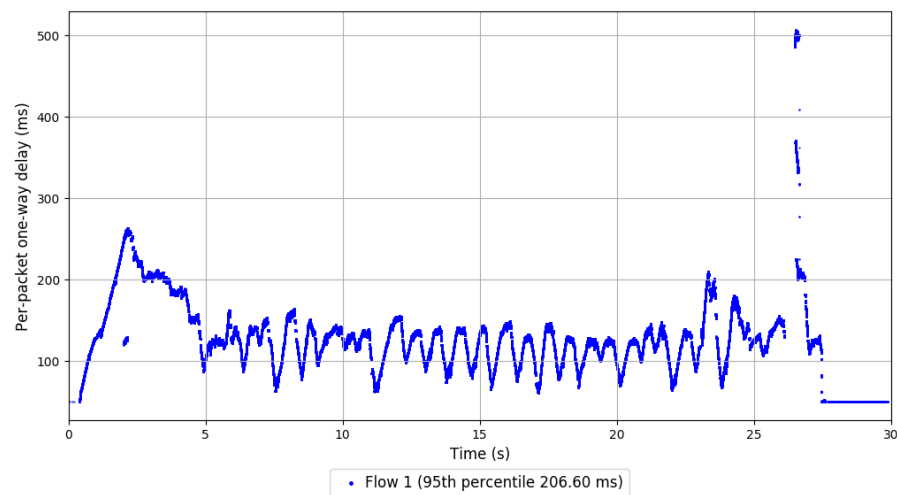
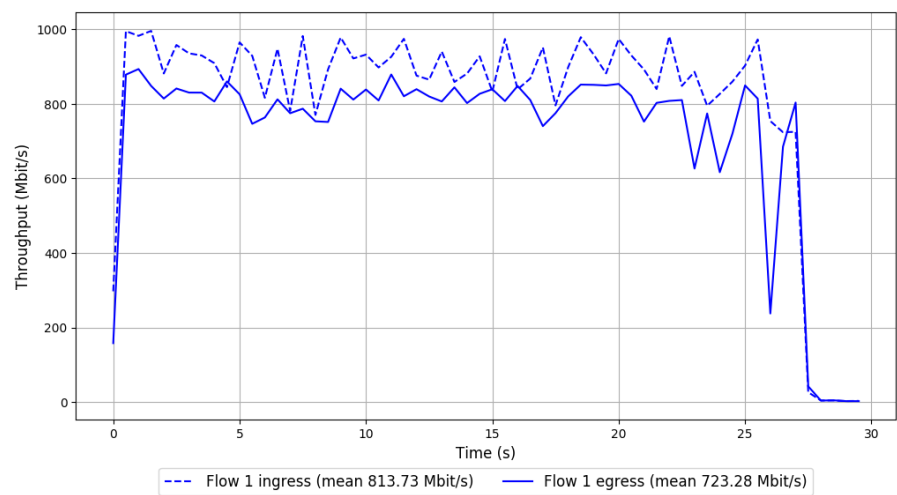
-- Flow 1:

Average throughput: 723.28 Mbit/s

95th percentile per-packet one-way delay: 206.604 ms

Loss rate: 11.42%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-03-20 13:59:14

End at: 2018-03-20 13:59:44

Below is generated by plot.py at 2018-03-20 19:21:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 779.99 Mbit/s

95th percentile per-packet one-way delay: 170.708 ms

Loss rate: 11.12%

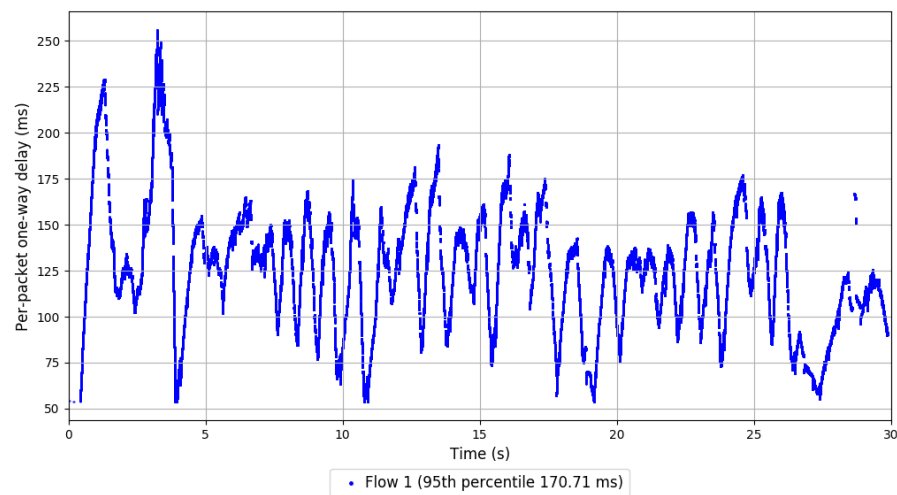
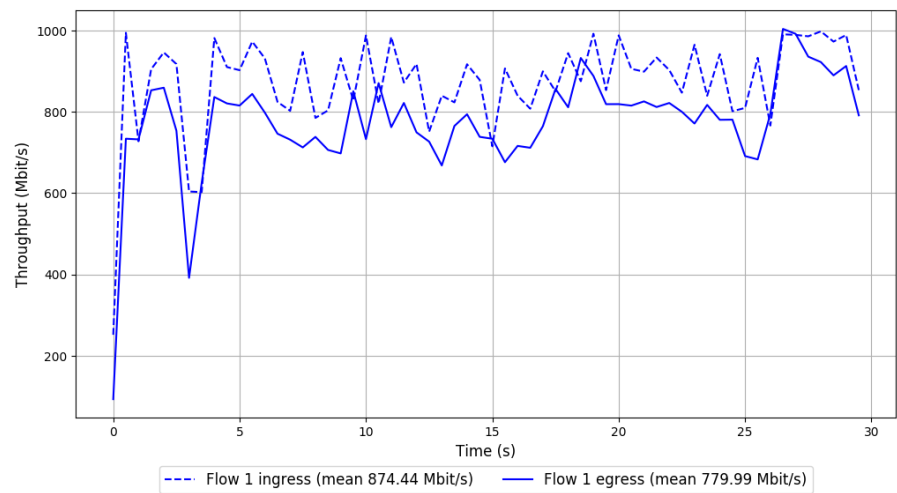
-- Flow 1:

Average throughput: 779.99 Mbit/s

95th percentile per-packet one-way delay: 170.708 ms

Loss rate: 11.12%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-03-20 14:13:42

End at: 2018-03-20 14:14:12

Below is generated by plot.py at 2018-03-20 19:21:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 784.25 Mbit/s

95th percentile per-packet one-way delay: 243.296 ms

Loss rate: 11.66%

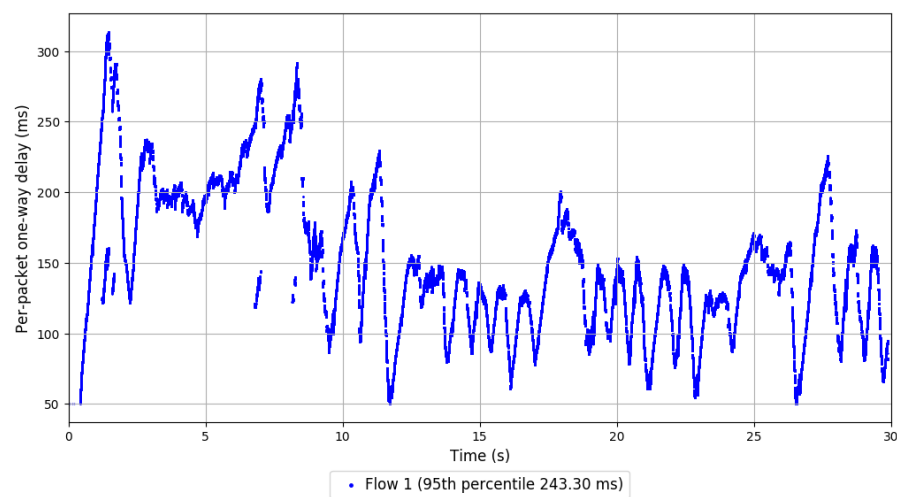
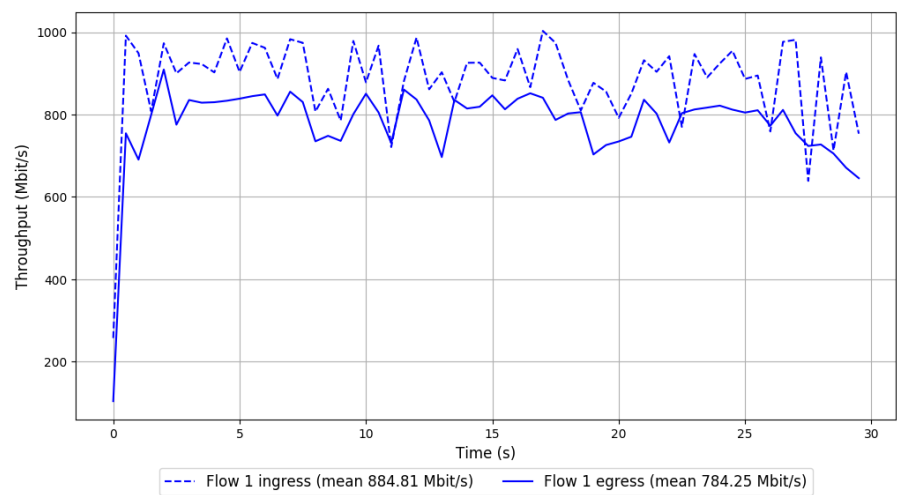
-- Flow 1:

Average throughput: 784.25 Mbit/s

95th percentile per-packet one-way delay: 243.296 ms

Loss rate: 11.66%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-03-20 14:28:27

End at: 2018-03-20 14:28:57

Below is generated by plot.py at 2018-03-20 19:21:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 793.94 Mbit/s

95th percentile per-packet one-way delay: 209.891 ms

Loss rate: 10.49%

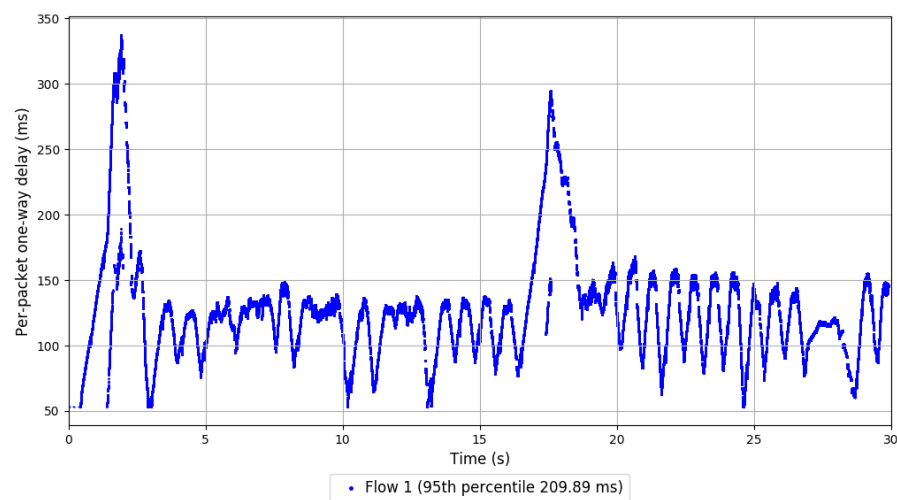
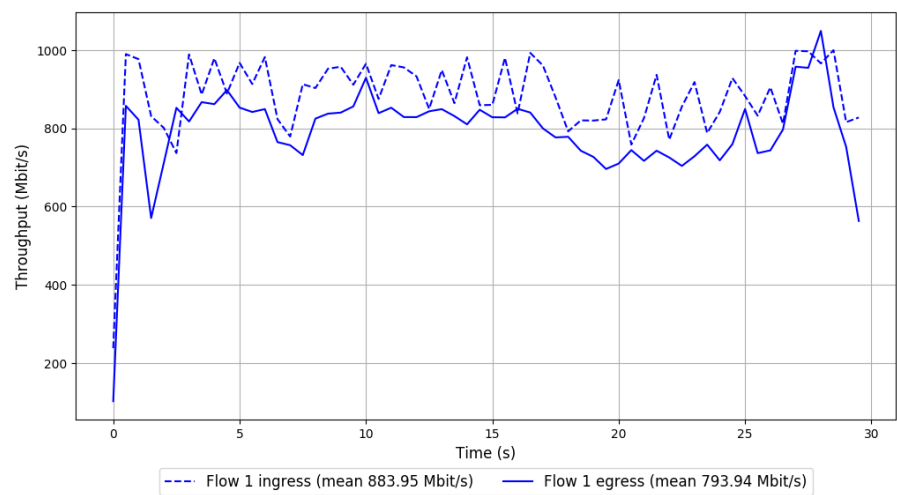
-- Flow 1:

Average throughput: 793.94 Mbit/s

95th percentile per-packet one-way delay: 209.891 ms

Loss rate: 10.49%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-03-20 14:42:38

End at: 2018-03-20 14:43:09

Below is generated by plot.py at 2018-03-20 19:21:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 784.40 Mbit/s

95th percentile per-packet one-way delay: 178.182 ms

Loss rate: 11.03%

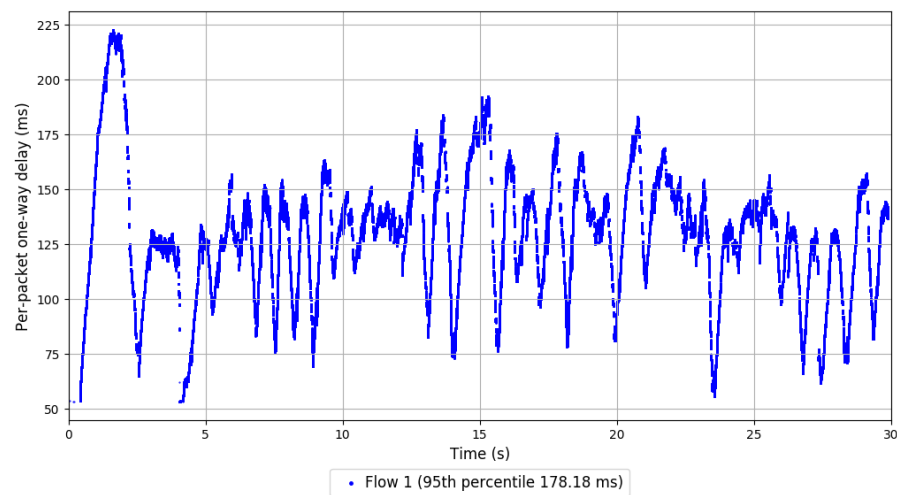
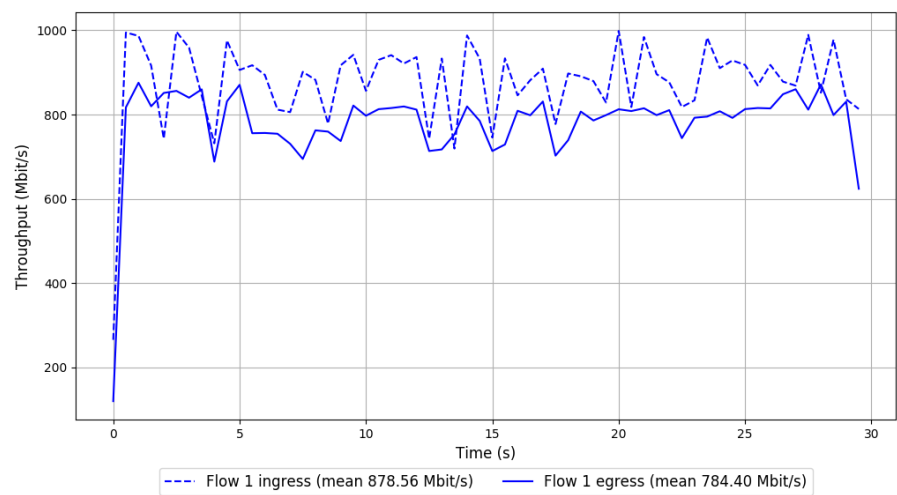
-- Flow 1:

Average throughput: 784.40 Mbit/s

95th percentile per-packet one-way delay: 178.182 ms

Loss rate: 11.03%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-03-20 14:57:04

End at: 2018-03-20 14:57:34

Below is generated by plot.py at 2018-03-20 19:21:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 739.59 Mbit/s

95th percentile per-packet one-way delay: 280.557 ms

Loss rate: 13.87%

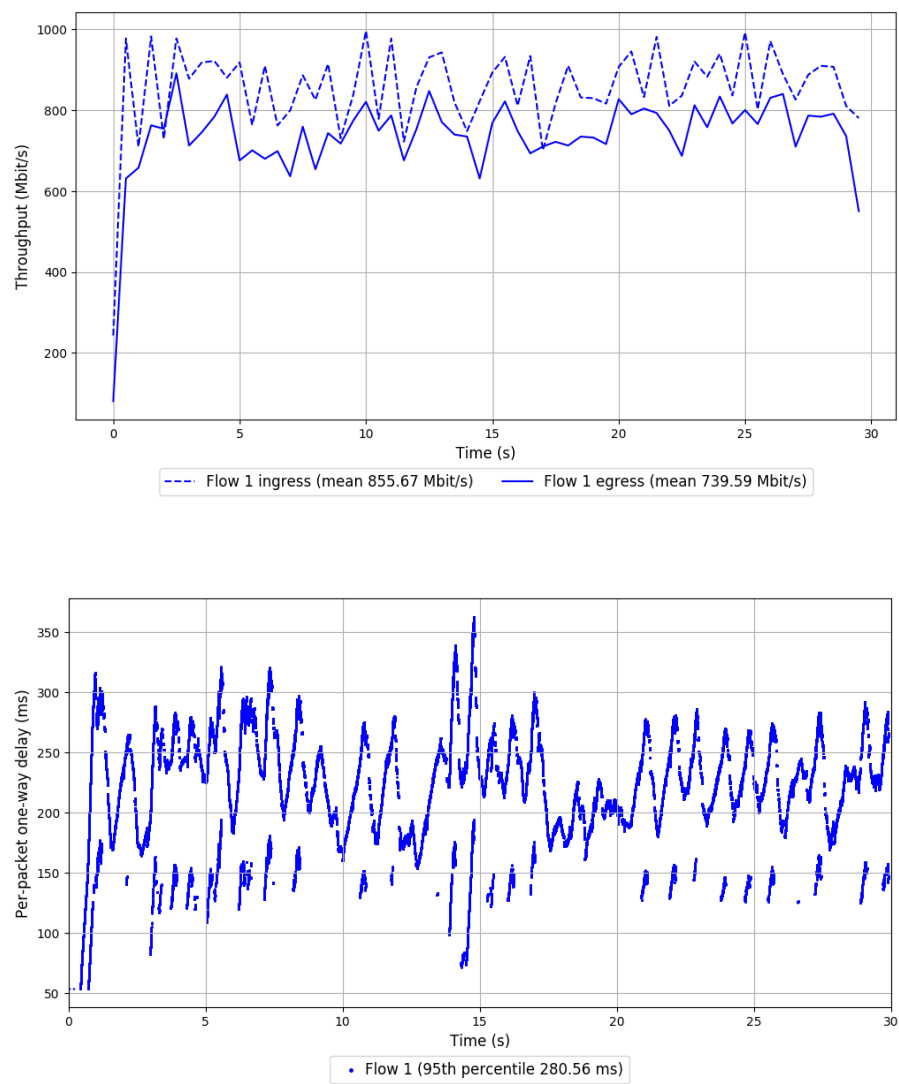
-- Flow 1:

Average throughput: 739.59 Mbit/s

95th percentile per-packet one-way delay: 280.557 ms

Loss rate: 13.87%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-03-20 15:11:42

End at: 2018-03-20 15:12:12

Below is generated by plot.py at 2018-03-20 19:32:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 737.33 Mbit/s

95th percentile per-packet one-way delay: 171.587 ms

Loss rate: 13.30%

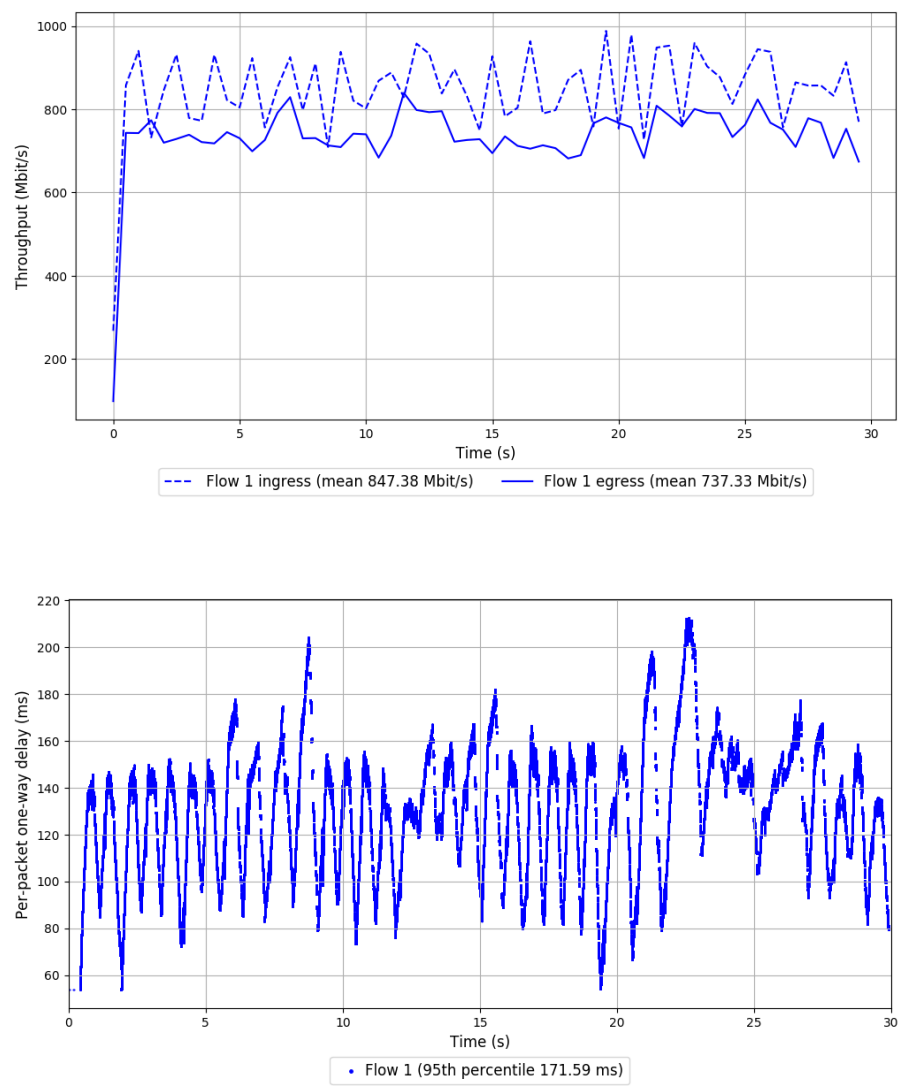
-- Flow 1:

Average throughput: 737.33 Mbit/s

95th percentile per-packet one-way delay: 171.587 ms

Loss rate: 13.30%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-03-20 15:26:14

End at: 2018-03-20 15:26:44

Below is generated by plot.py at 2018-03-20 19:35:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 772.70 Mbit/s

95th percentile per-packet one-way delay: 151.698 ms

Loss rate: 11.81%

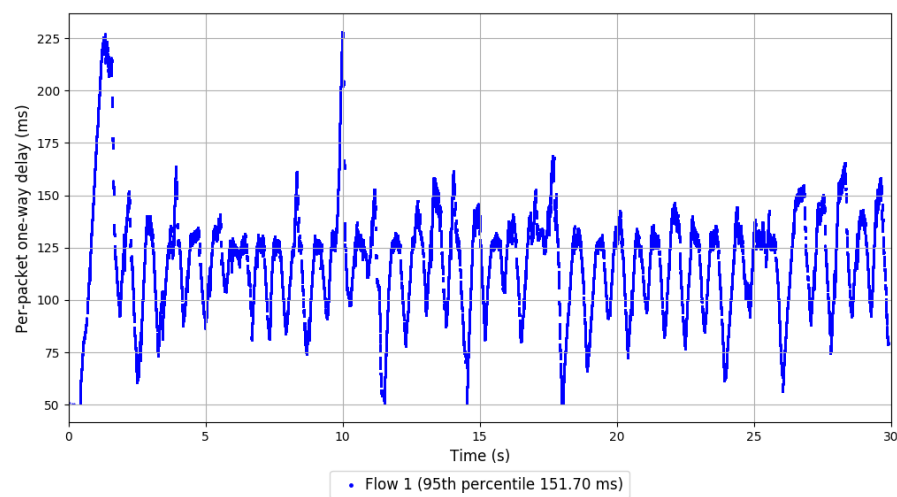
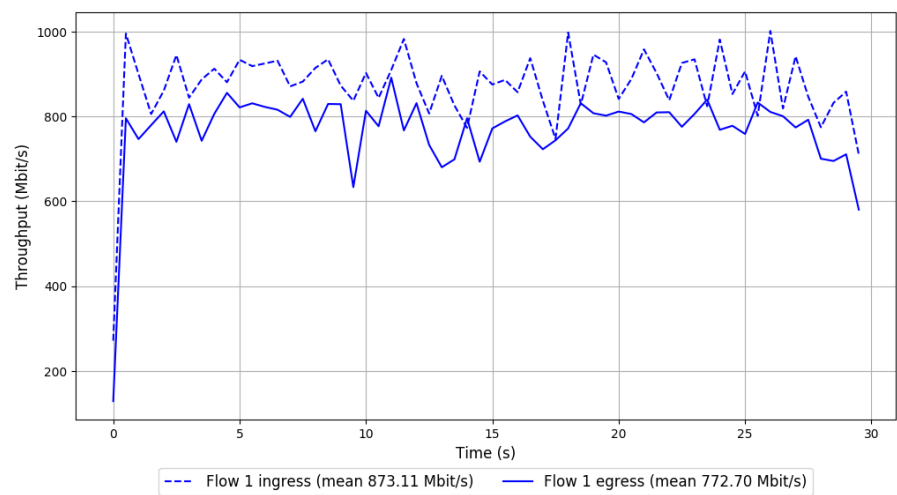
-- Flow 1:

Average throughput: 772.70 Mbit/s

95th percentile per-packet one-way delay: 151.698 ms

Loss rate: 11.81%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-03-20 15:40:44

End at: 2018-03-20 15:41:14

Below is generated by plot.py at 2018-03-20 19:35:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 805.84 Mbit/s

95th percentile per-packet one-way delay: 216.529 ms

Loss rate: 10.42%

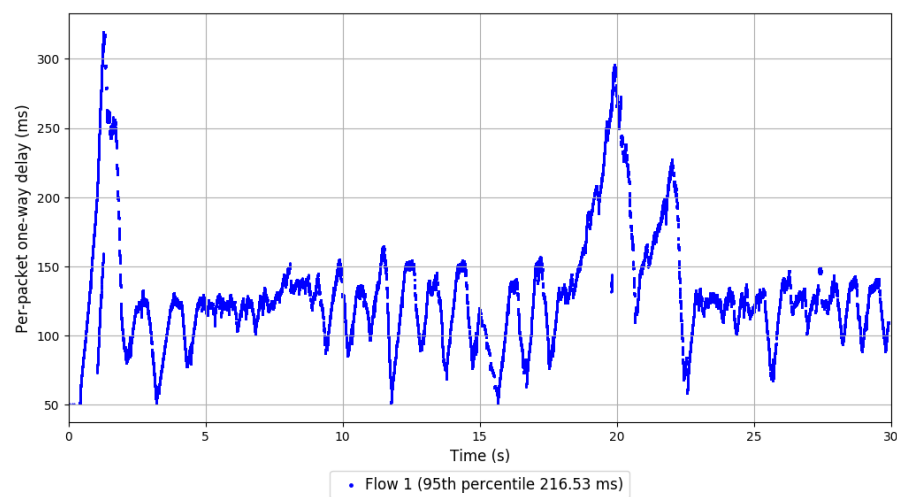
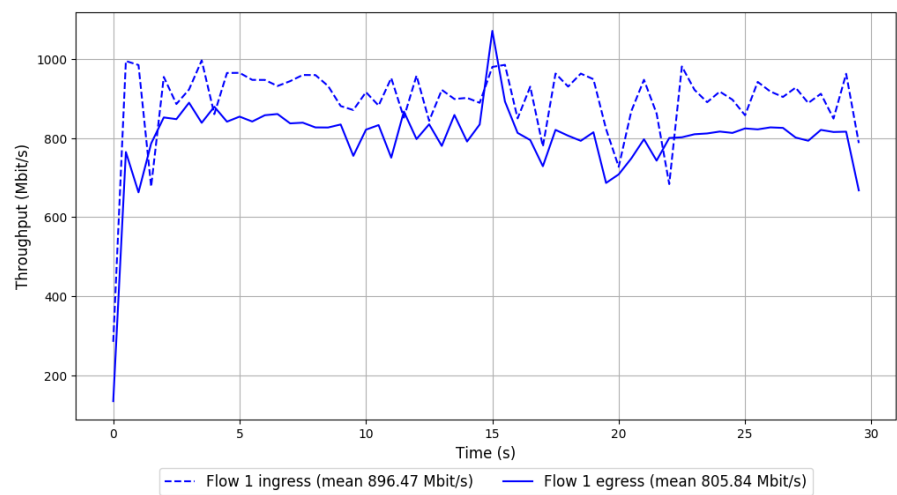
-- Flow 1:

Average throughput: 805.84 Mbit/s

95th percentile per-packet one-way delay: 216.529 ms

Loss rate: 10.42%

Run 10: Report of FillP — Data Link

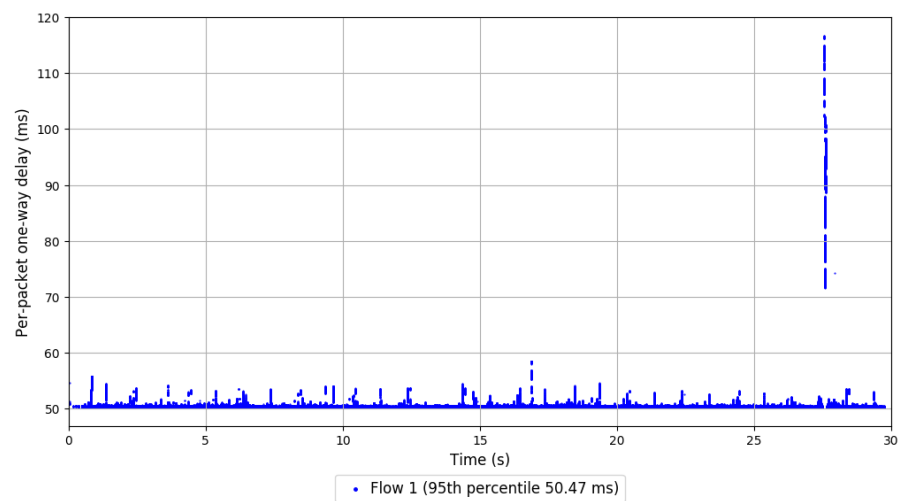
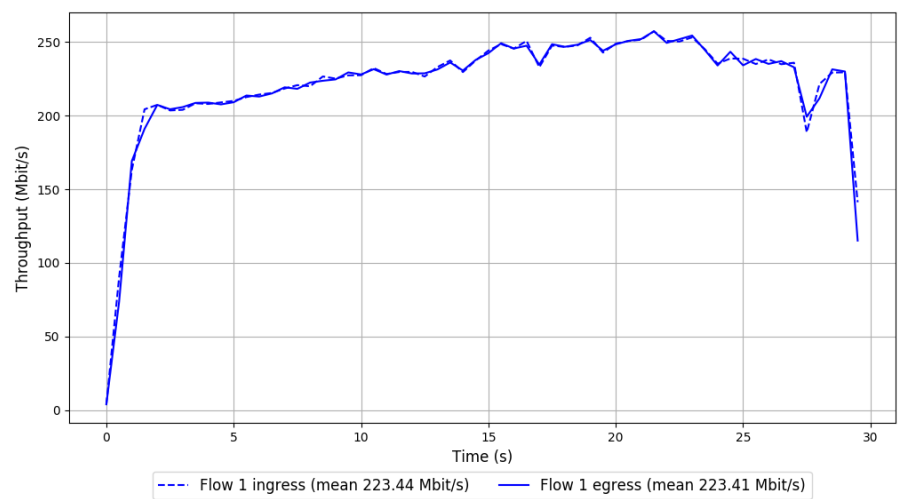


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-03-20 13:33:16
End at: 2018-03-20 13:33:46

# Below is generated by plot.py at 2018-03-20 19:35:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 223.41 Mbit/s
95th percentile per-packet one-way delay: 50.466 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 223.41 Mbit/s
95th percentile per-packet one-way delay: 50.466 ms
Loss rate: 0.36%
```

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-03-20 13:47:40

End at: 2018-03-20 13:48:10

Below is generated by plot.py at 2018-03-20 19:35:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.33 Mbit/s

95th percentile per-packet one-way delay: 50.472 ms

Loss rate: 0.37%

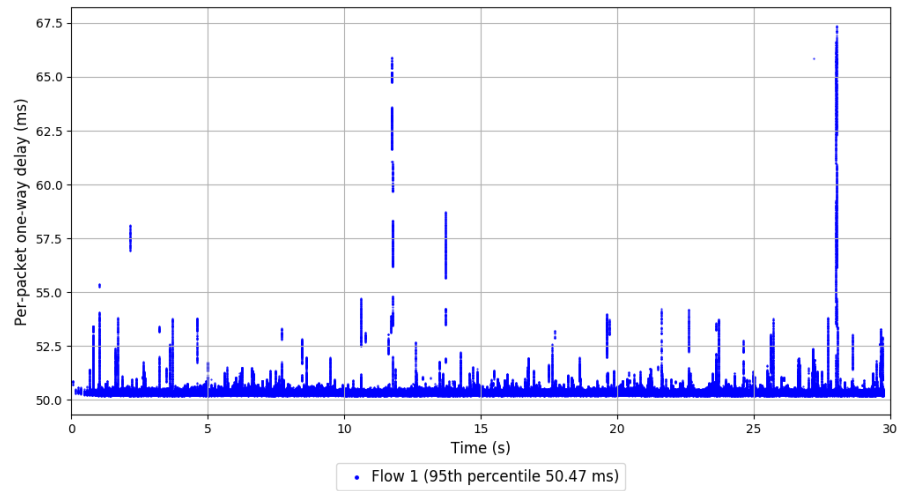
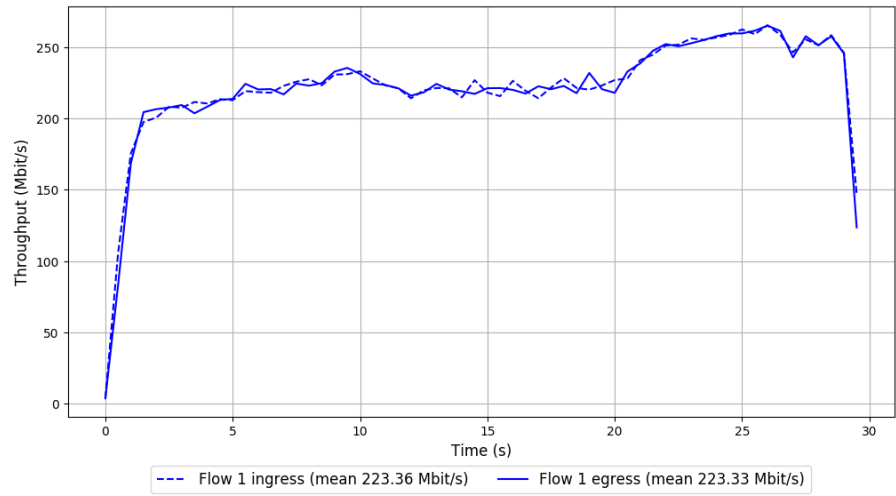
-- Flow 1:

Average throughput: 223.33 Mbit/s

95th percentile per-packet one-way delay: 50.472 ms

Loss rate: 0.37%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-03-20 14:01:57

End at: 2018-03-20 14:02:27

Below is generated by plot.py at 2018-03-20 19:35:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.43 Mbit/s

95th percentile per-packet one-way delay: 50.152 ms

Loss rate: 0.41%

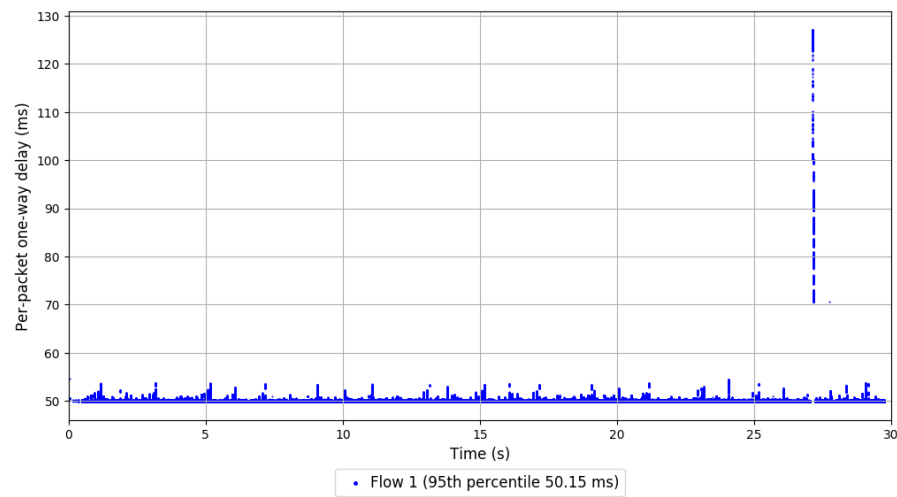
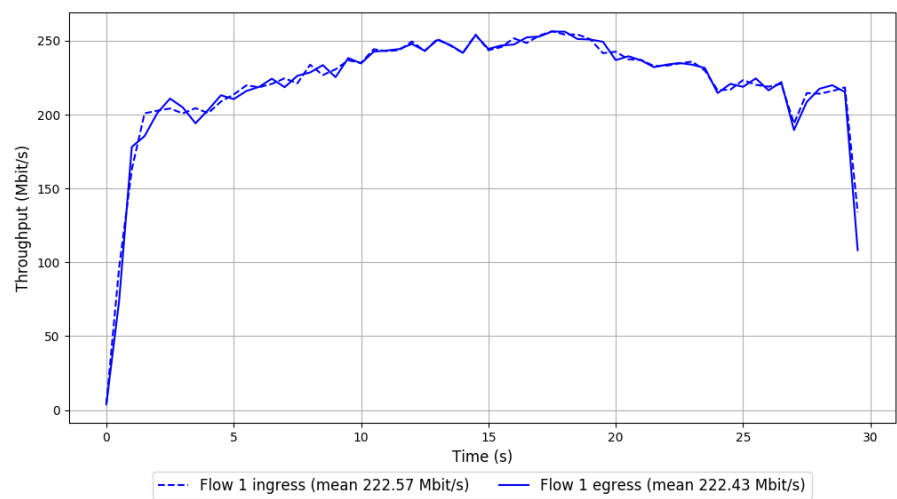
-- Flow 1:

Average throughput: 222.43 Mbit/s

95th percentile per-packet one-way delay: 50.152 ms

Loss rate: 0.41%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-03-20 14:16:25

End at: 2018-03-20 14:16:55

Below is generated by plot.py at 2018-03-20 19:35:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.85 Mbit/s

95th percentile per-packet one-way delay: 53.666 ms

Loss rate: 0.25%

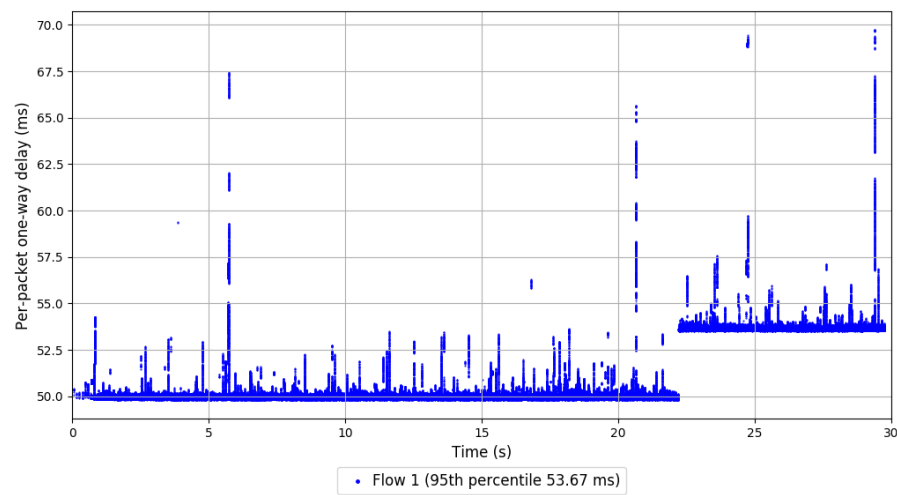
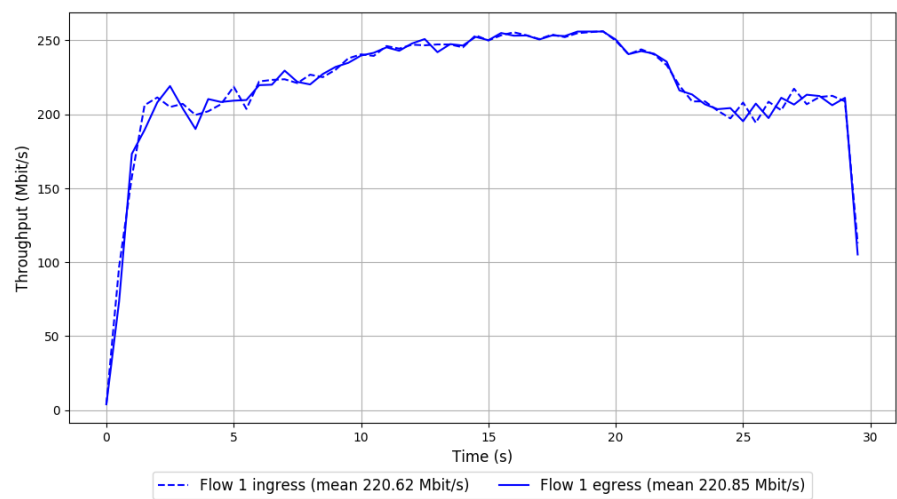
-- Flow 1:

Average throughput: 220.85 Mbit/s

95th percentile per-packet one-way delay: 53.666 ms

Loss rate: 0.25%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-03-20 14:31:10

End at: 2018-03-20 14:31:40

Below is generated by plot.py at 2018-03-20 19:35:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 233.16 Mbit/s

95th percentile per-packet one-way delay: 49.872 ms

Loss rate: 0.31%

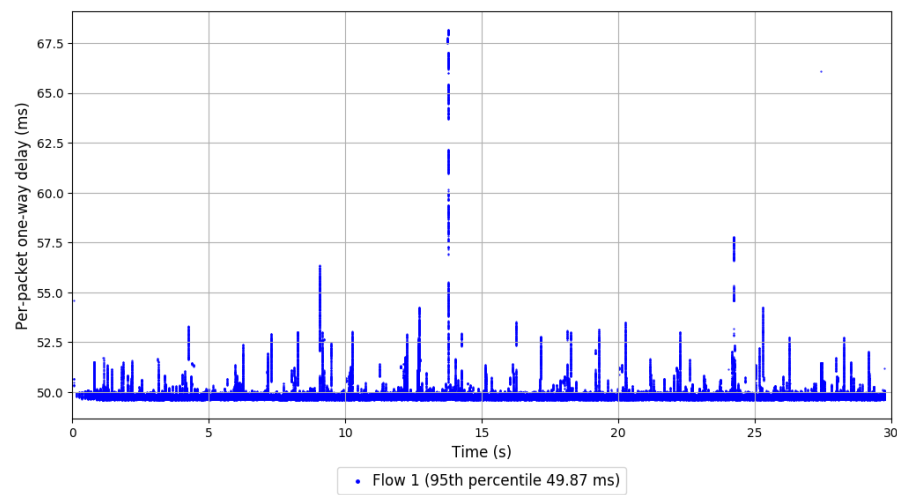
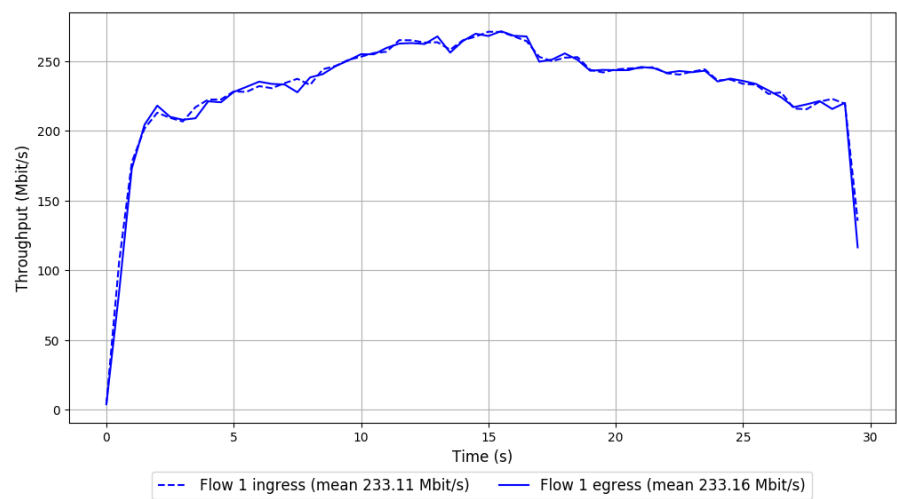
-- Flow 1:

Average throughput: 233.16 Mbit/s

95th percentile per-packet one-way delay: 49.872 ms

Loss rate: 0.31%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-03-20 14:45:23

End at: 2018-03-20 14:45:53

Below is generated by plot.py at 2018-03-20 19:35:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 234.76 Mbit/s

95th percentile per-packet one-way delay: 49.810 ms

Loss rate: 0.32%

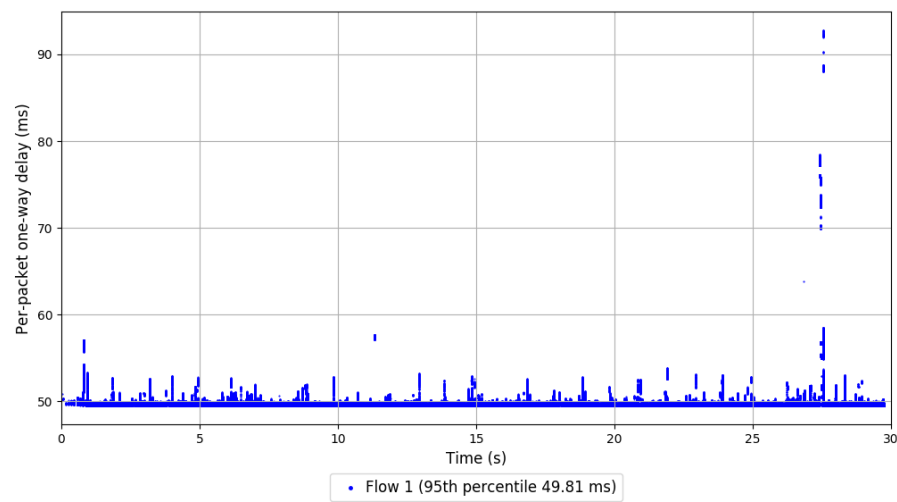
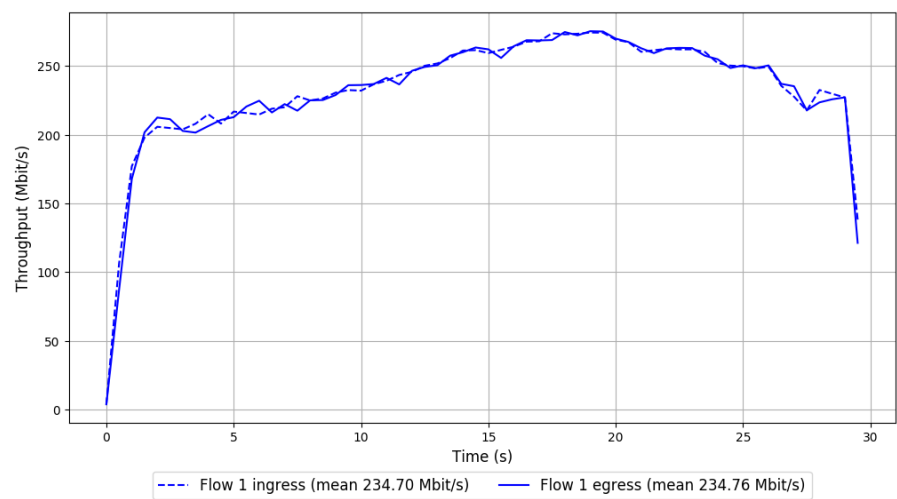
-- Flow 1:

Average throughput: 234.76 Mbit/s

95th percentile per-packet one-way delay: 49.810 ms

Loss rate: 0.32%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-03-20 14:59:46

End at: 2018-03-20 15:00:16

Below is generated by plot.py at 2018-03-20 19:35:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.26 Mbit/s

95th percentile per-packet one-way delay: 50.007 ms

Loss rate: 0.35%

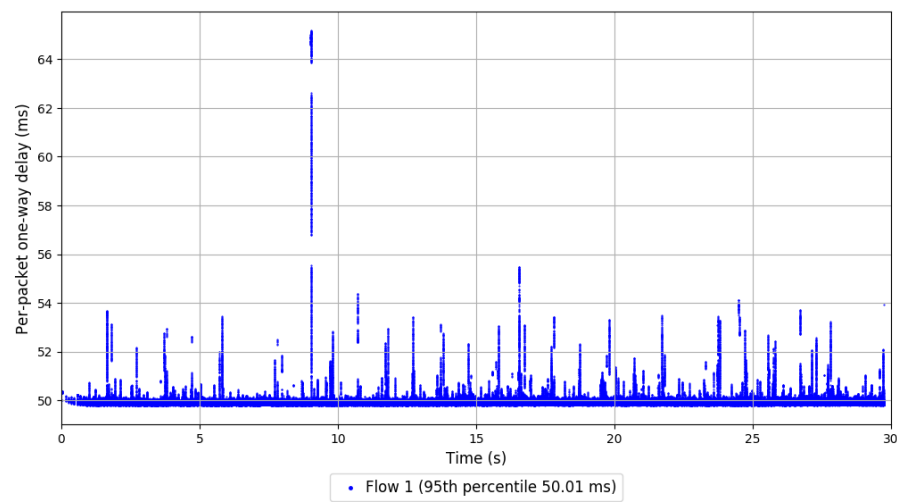
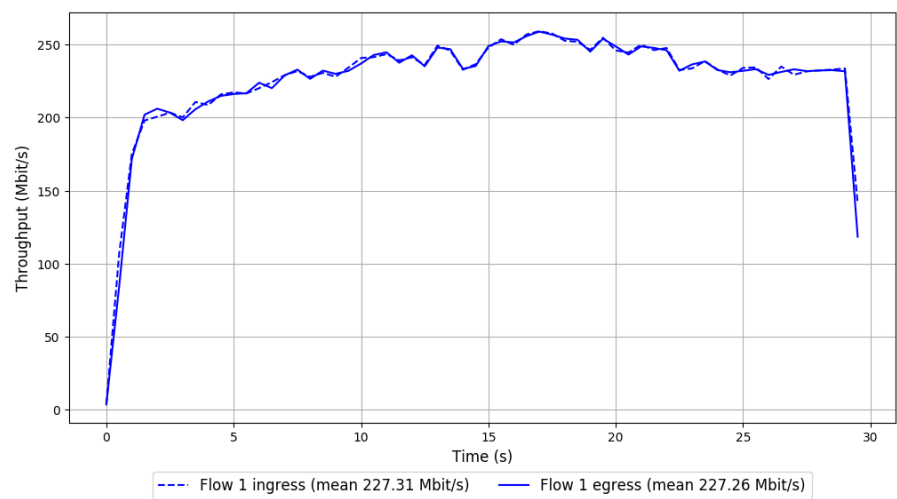
-- Flow 1:

Average throughput: 227.26 Mbit/s

95th percentile per-packet one-way delay: 50.007 ms

Loss rate: 0.35%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-03-20 15:14:24

End at: 2018-03-20 15:14:54

Below is generated by plot.py at 2018-03-20 19:35:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.71 Mbit/s

95th percentile per-packet one-way delay: 50.164 ms

Loss rate: 0.39%

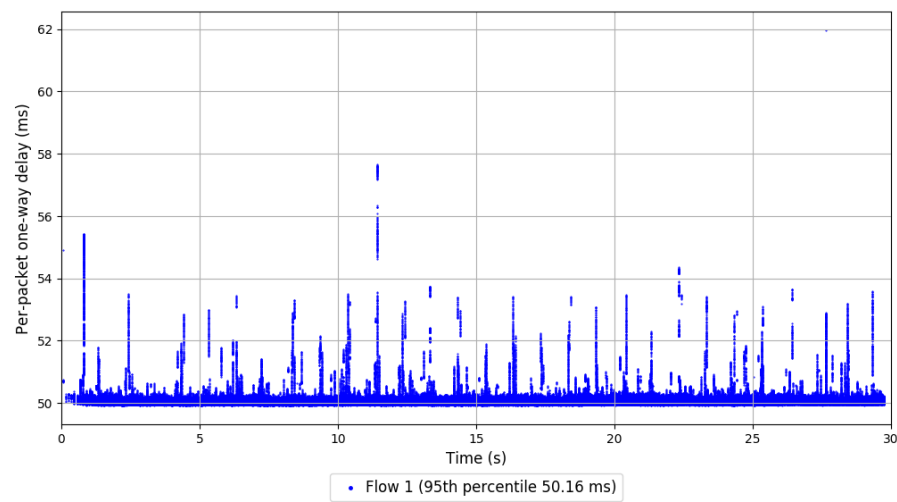
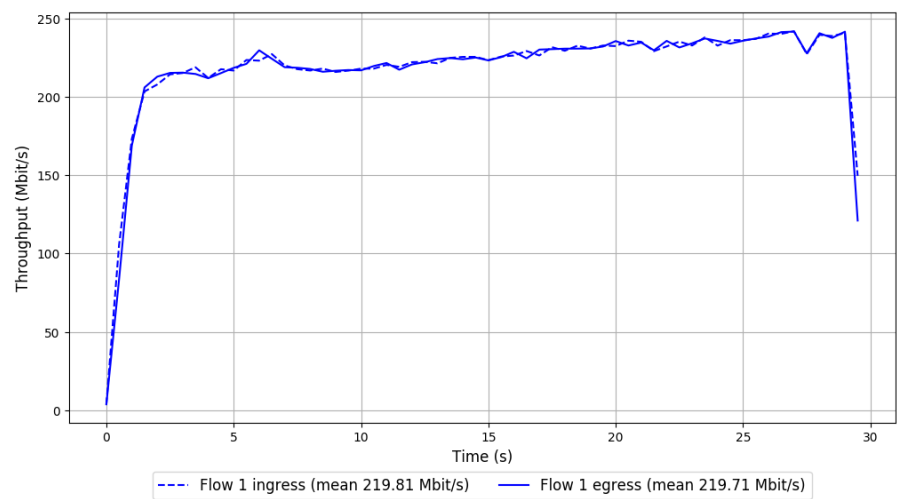
-- Flow 1:

Average throughput: 219.71 Mbit/s

95th percentile per-packet one-way delay: 50.164 ms

Loss rate: 0.39%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-03-20 15:28:55

End at: 2018-03-20 15:29:25

Below is generated by plot.py at 2018-03-20 19:35:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.35 Mbit/s

95th percentile per-packet one-way delay: 53.375 ms

Loss rate: 0.36%

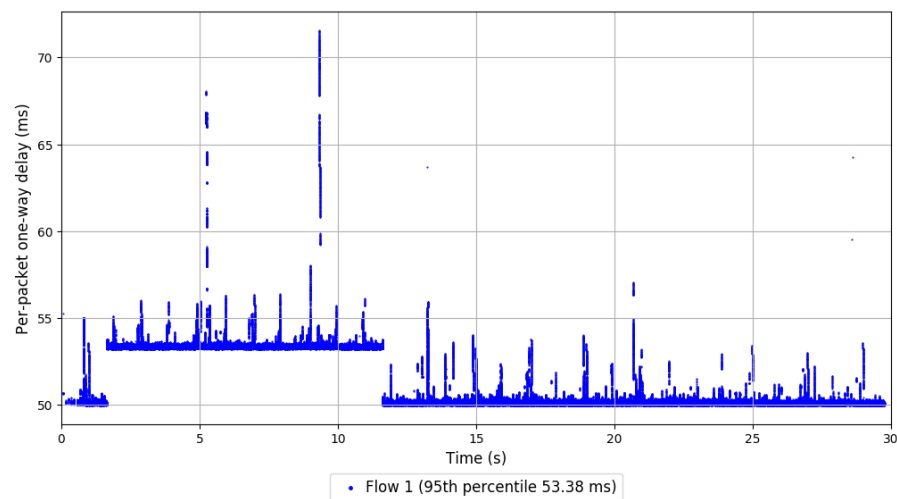
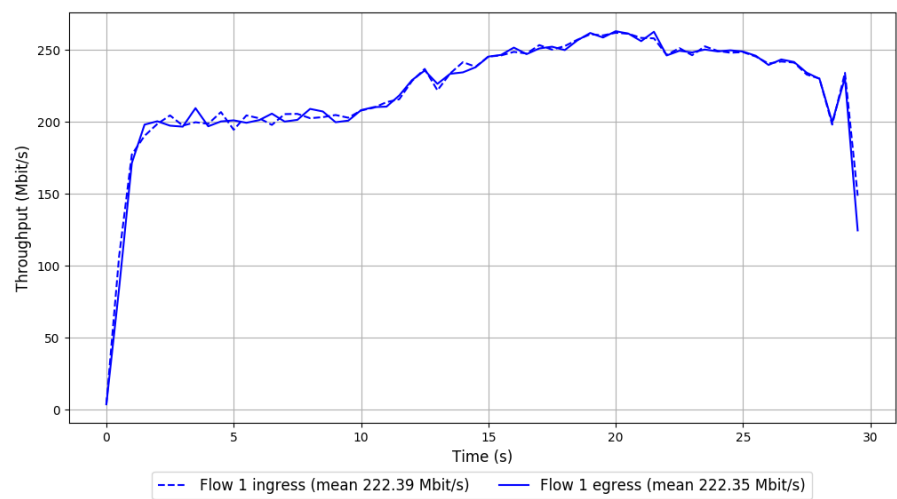
-- Flow 1:

Average throughput: 222.35 Mbit/s

95th percentile per-packet one-way delay: 53.375 ms

Loss rate: 0.36%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-03-20 15:43:27

End at: 2018-03-20 15:43:57

Below is generated by plot.py at 2018-03-20 19:35:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.71 Mbit/s

95th percentile per-packet one-way delay: 50.272 ms

Loss rate: 0.33%

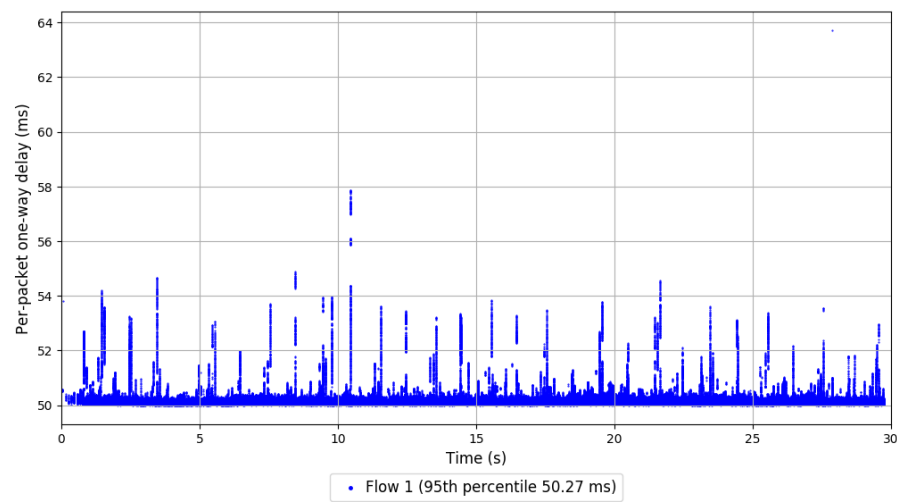
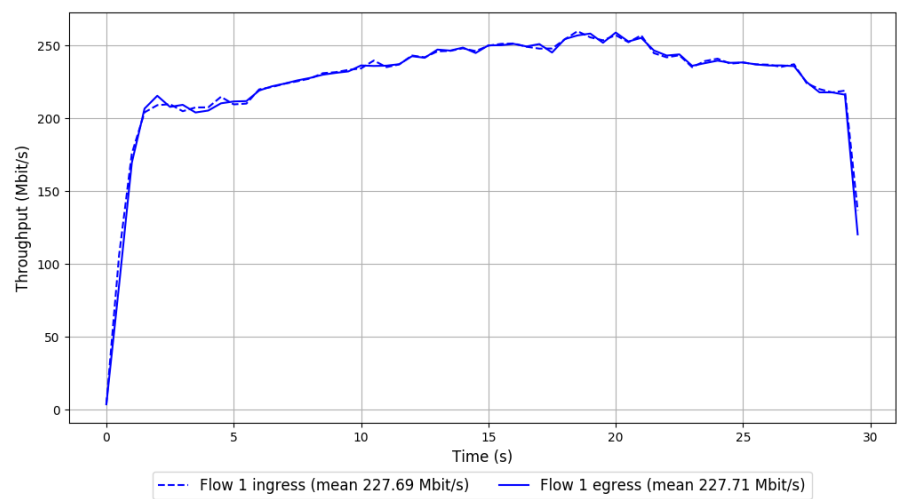
-- Flow 1:

Average throughput: 227.71 Mbit/s

95th percentile per-packet one-way delay: 50.272 ms

Loss rate: 0.33%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-03-20 13:38:47

End at: 2018-03-20 13:39:17

Below is generated by plot.py at 2018-03-20 19:35:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 303.68 Mbit/s

95th percentile per-packet one-way delay: 52.208 ms

Loss rate: 0.45%

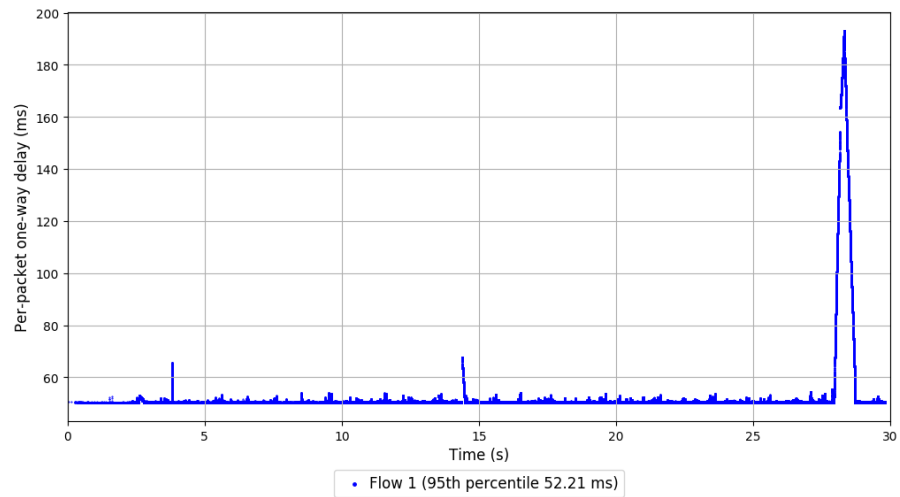
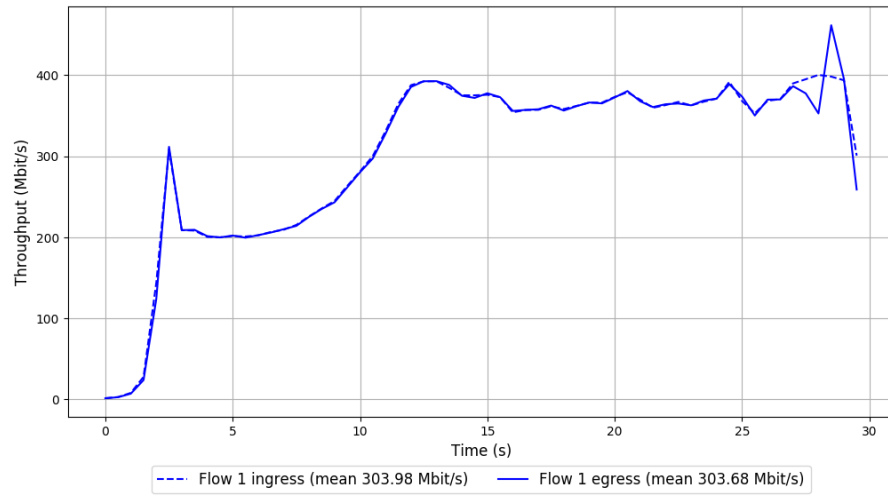
-- Flow 1:

Average throughput: 303.68 Mbit/s

95th percentile per-packet one-way delay: 52.208 ms

Loss rate: 0.45%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-03-20 13:53:08

End at: 2018-03-20 13:53:38

Below is generated by plot.py at 2018-03-20 19:35:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 370.23 Mbit/s

95th percentile per-packet one-way delay: 63.010 ms

Loss rate: 0.52%

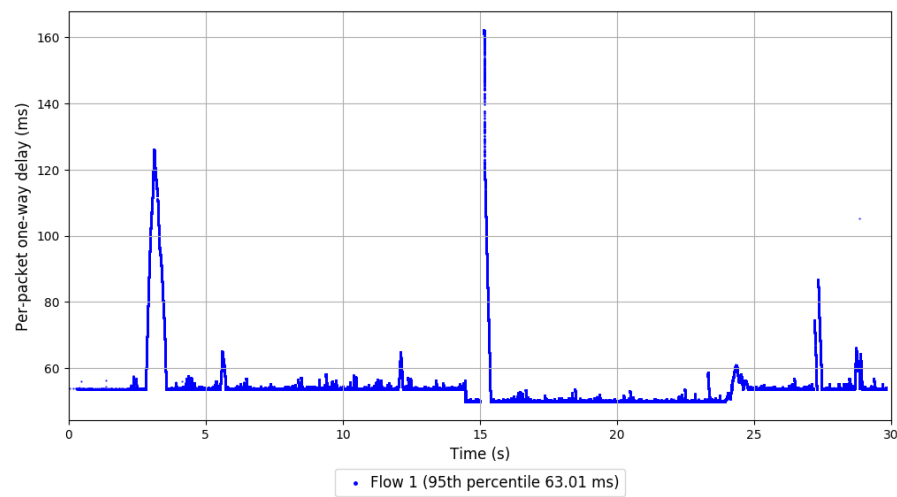
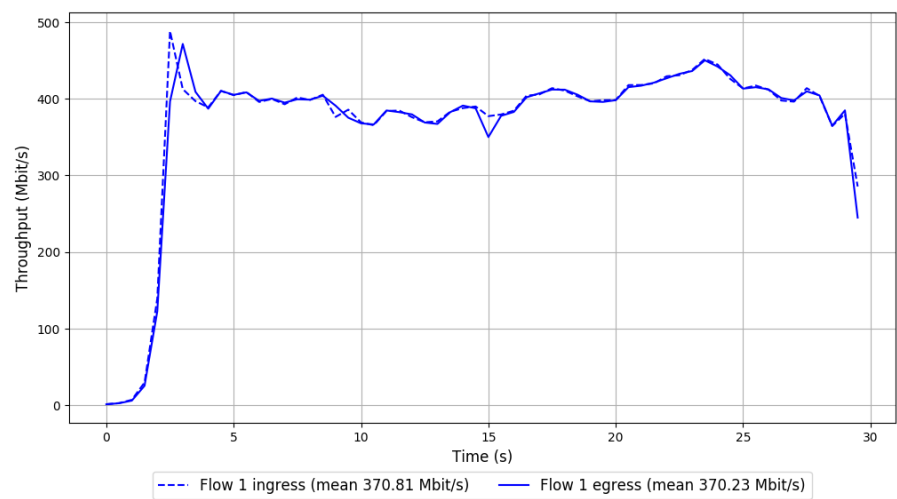
-- Flow 1:

Average throughput: 370.23 Mbit/s

95th percentile per-packet one-way delay: 63.010 ms

Loss rate: 0.52%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-03-20 14:07:47

End at: 2018-03-20 14:08:17

Below is generated by plot.py at 2018-03-20 19:35:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 266.67 Mbit/s

95th percentile per-packet one-way delay: 52.199 ms

Loss rate: 0.41%

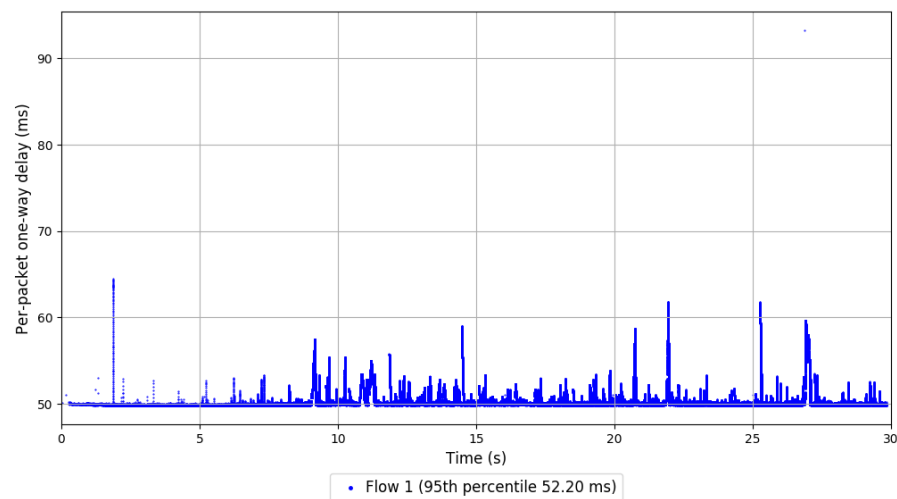
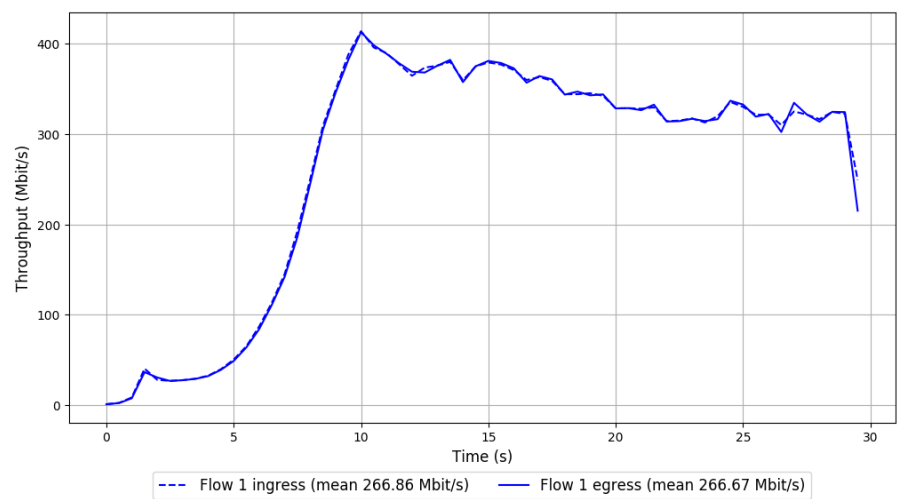
-- Flow 1:

Average throughput: 266.67 Mbit/s

95th percentile per-packet one-way delay: 52.199 ms

Loss rate: 0.41%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-03-20 14:22:07

End at: 2018-03-20 14:22:37

Below is generated by plot.py at 2018-03-20 19:35:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 338.59 Mbit/s

95th percentile per-packet one-way delay: 57.551 ms

Loss rate: 0.40%

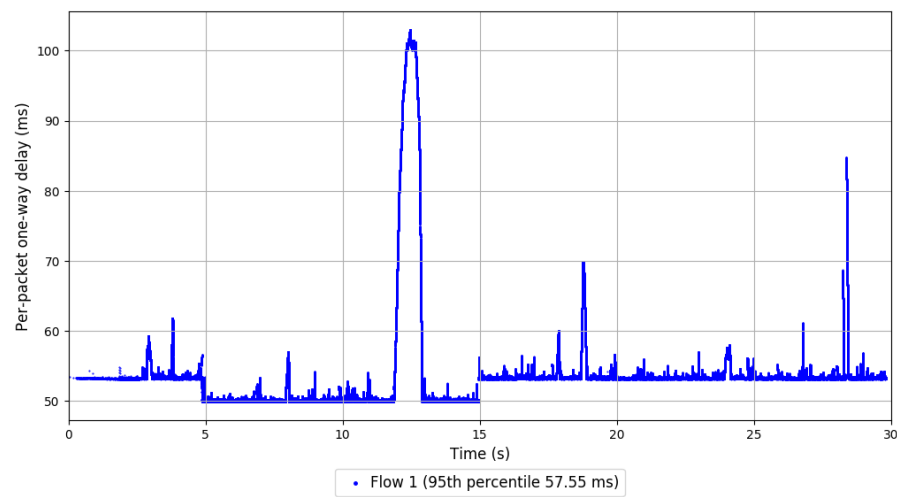
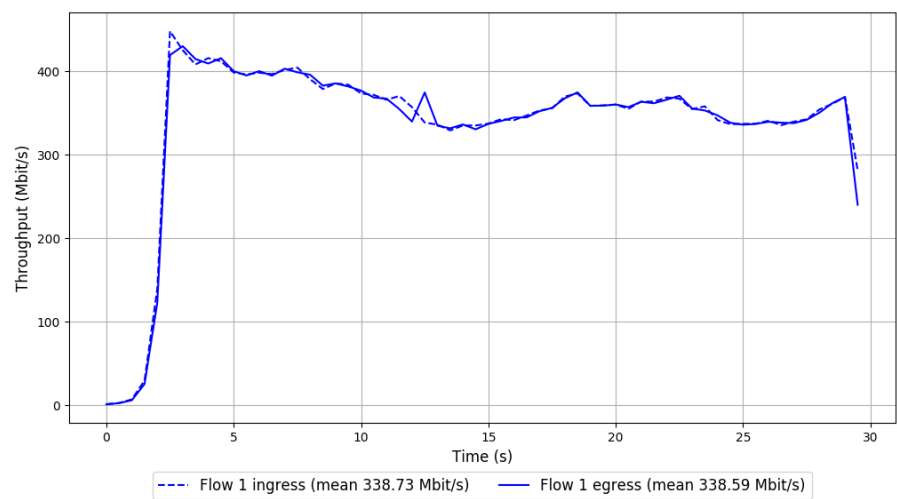
-- Flow 1:

Average throughput: 338.59 Mbit/s

95th percentile per-packet one-way delay: 57.551 ms

Loss rate: 0.40%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-03-20 14:36:38

End at: 2018-03-20 14:37:08

Below is generated by plot.py at 2018-03-20 19:36:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 357.30 Mbit/s

95th percentile per-packet one-way delay: 57.469 ms

Loss rate: 0.42%

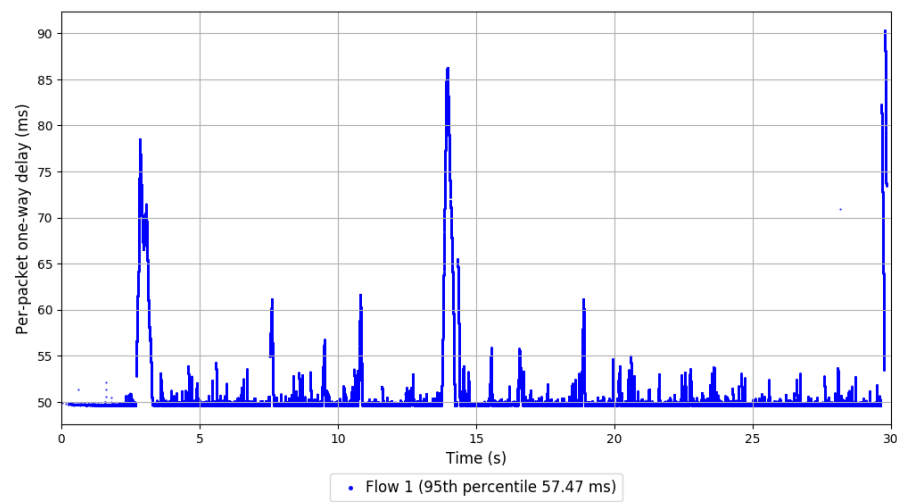
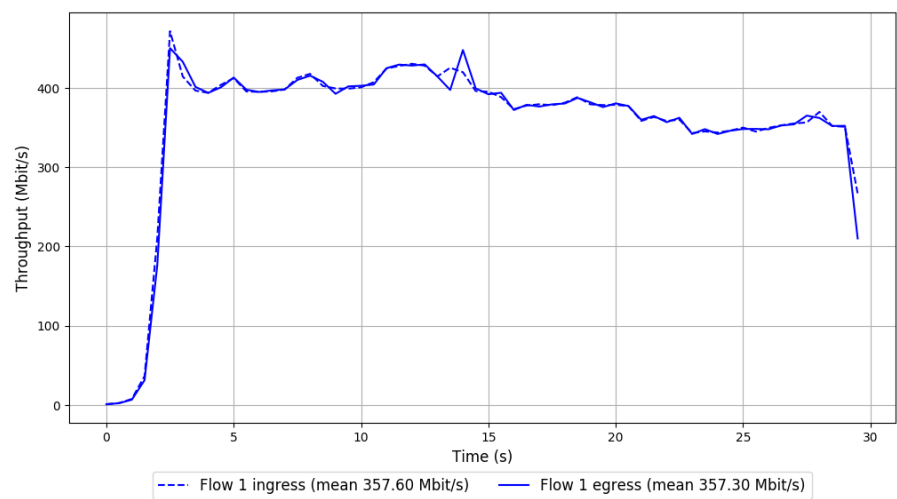
-- Flow 1:

Average throughput: 357.30 Mbit/s

95th percentile per-packet one-way delay: 57.469 ms

Loss rate: 0.42%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-03-20 14:51:01

End at: 2018-03-20 14:51:31

Below is generated by plot.py at 2018-03-20 19:37:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 305.96 Mbit/s

95th percentile per-packet one-way delay: 57.779 ms

Loss rate: 0.82%

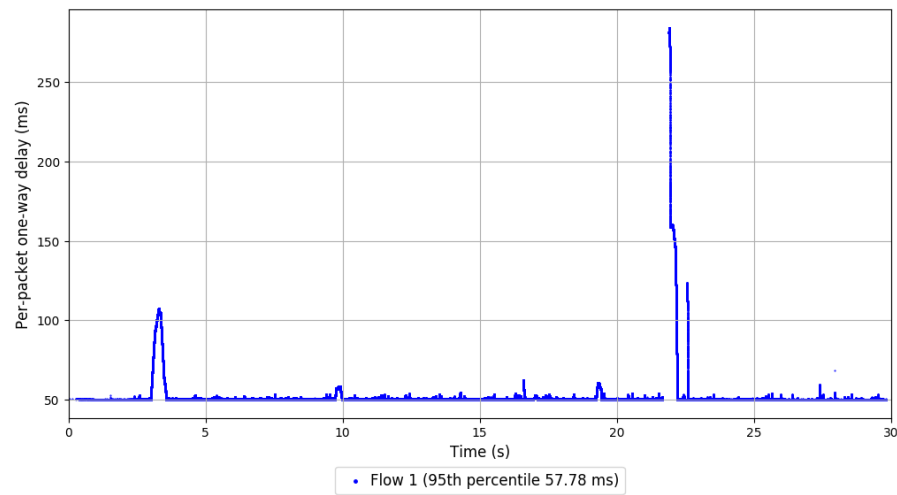
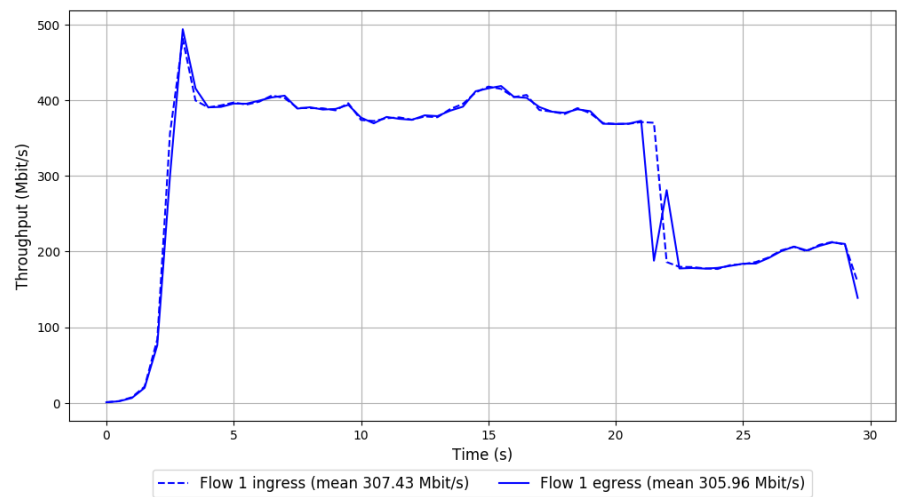
-- Flow 1:

Average throughput: 305.96 Mbit/s

95th percentile per-packet one-way delay: 57.779 ms

Loss rate: 0.82%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-03-20 15:05:41

End at: 2018-03-20 15:06:11

Below is generated by plot.py at 2018-03-20 19:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 315.08 Mbit/s

95th percentile per-packet one-way delay: 94.361 ms

Loss rate: 0.42%

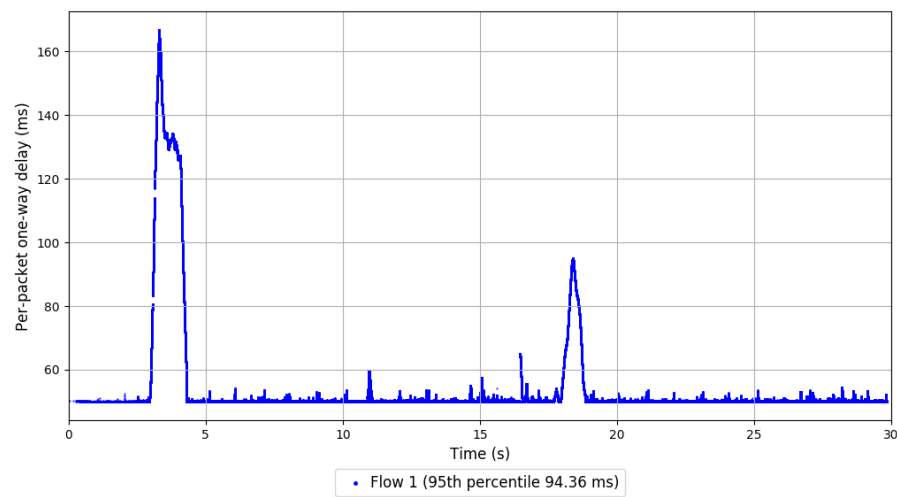
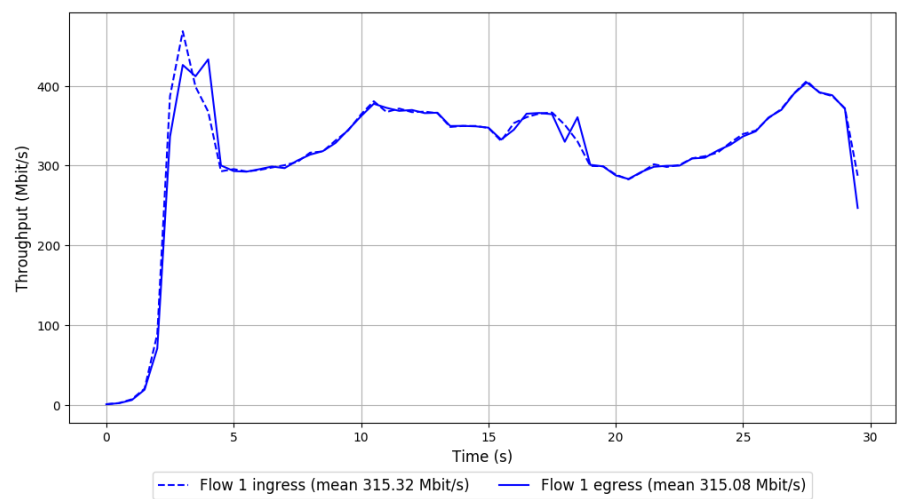
-- Flow 1:

Average throughput: 315.08 Mbit/s

95th percentile per-packet one-way delay: 94.361 ms

Loss rate: 0.42%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-03-20 15:20:10

End at: 2018-03-20 15:20:40

Below is generated by plot.py at 2018-03-20 19:40:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 347.53 Mbit/s

95th percentile per-packet one-way delay: 81.812 ms

Loss rate: 0.41%

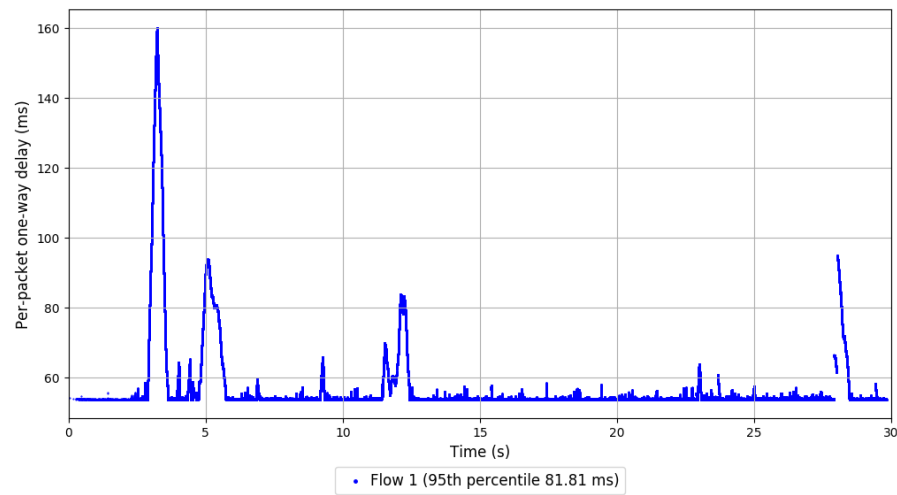
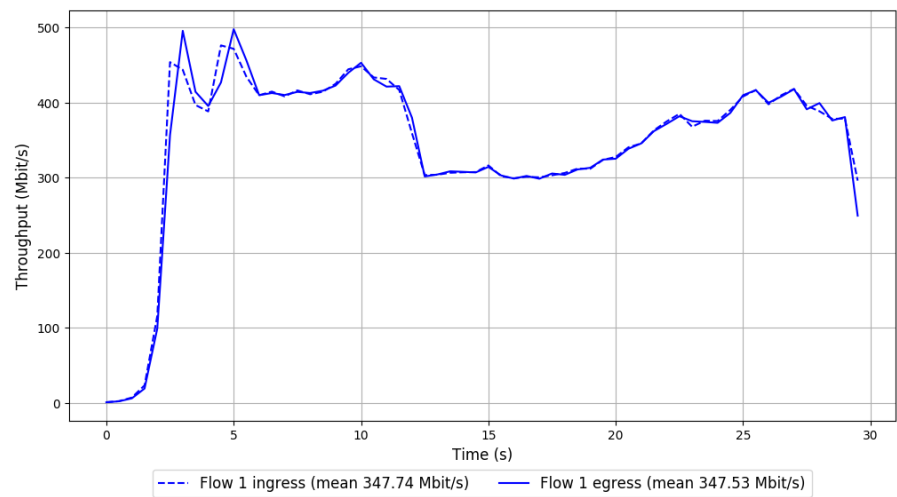
-- Flow 1:

Average throughput: 347.53 Mbit/s

95th percentile per-packet one-way delay: 81.812 ms

Loss rate: 0.41%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-03-20 15:34:41

End at: 2018-03-20 15:35:11

Below is generated by plot.py at 2018-03-20 19:40:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 340.75 Mbit/s

95th percentile per-packet one-way delay: 88.203 ms

Loss rate: 0.32%

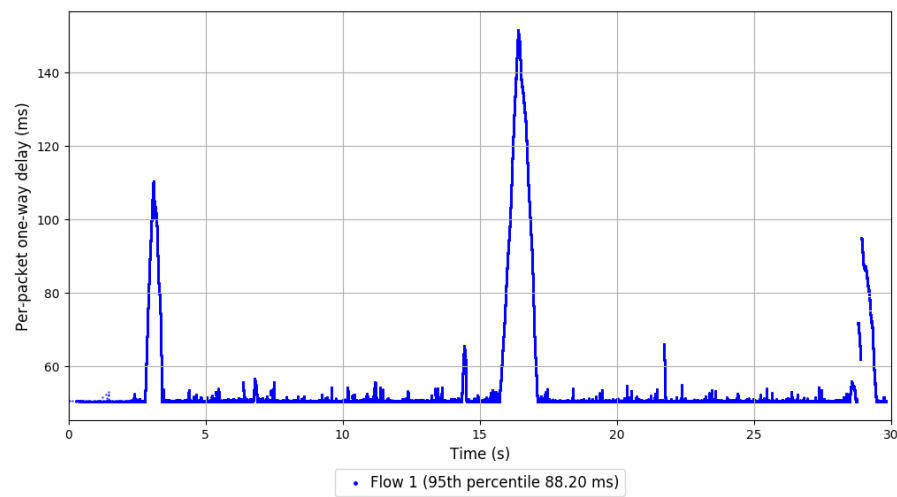
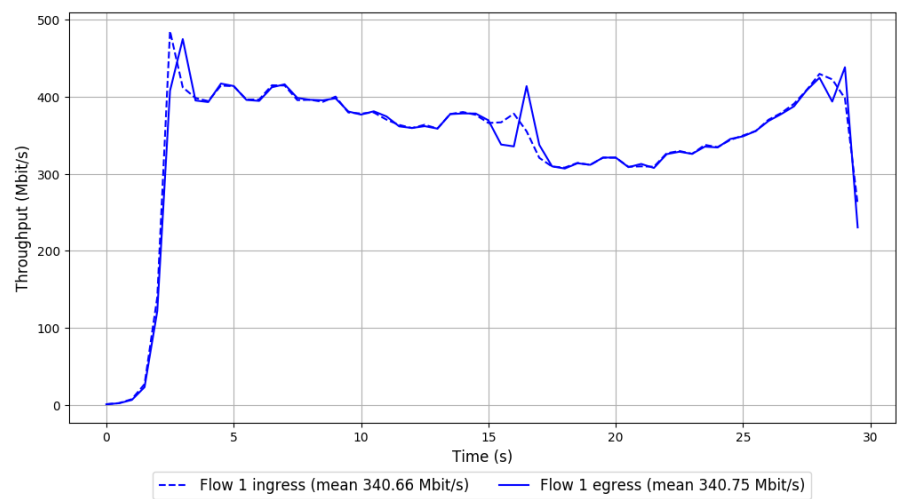
-- Flow 1:

Average throughput: 340.75 Mbit/s

95th percentile per-packet one-way delay: 88.203 ms

Loss rate: 0.32%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-03-20 15:49:06

End at: 2018-03-20 15:49:36

Below is generated by plot.py at 2018-03-20 19:41:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 339.51 Mbit/s

95th percentile per-packet one-way delay: 105.720 ms

Loss rate: 0.35%

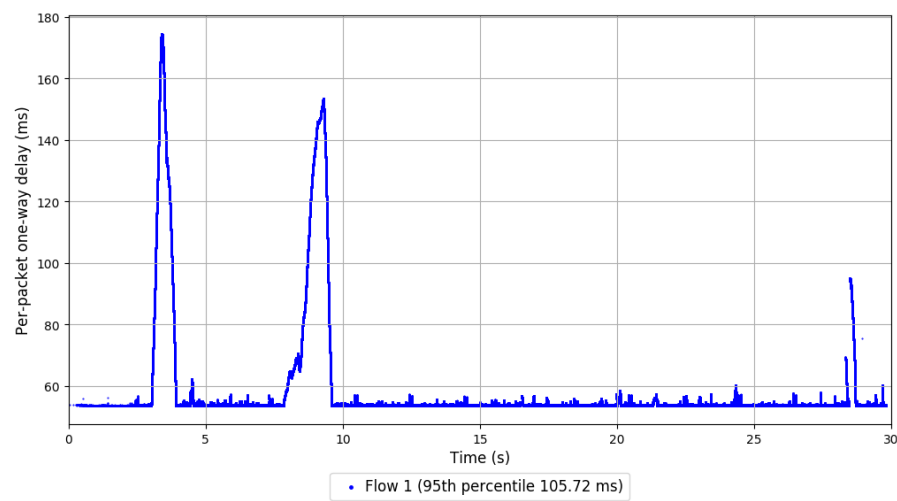
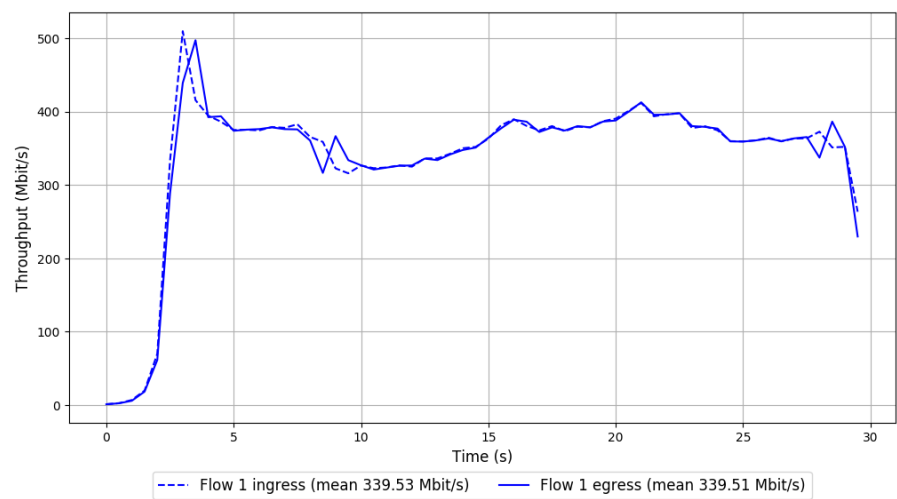
-- Flow 1:

Average throughput: 339.51 Mbit/s

95th percentile per-packet one-way delay: 105.720 ms

Loss rate: 0.35%

Run 10: Report of Vivace-latency — Data Link

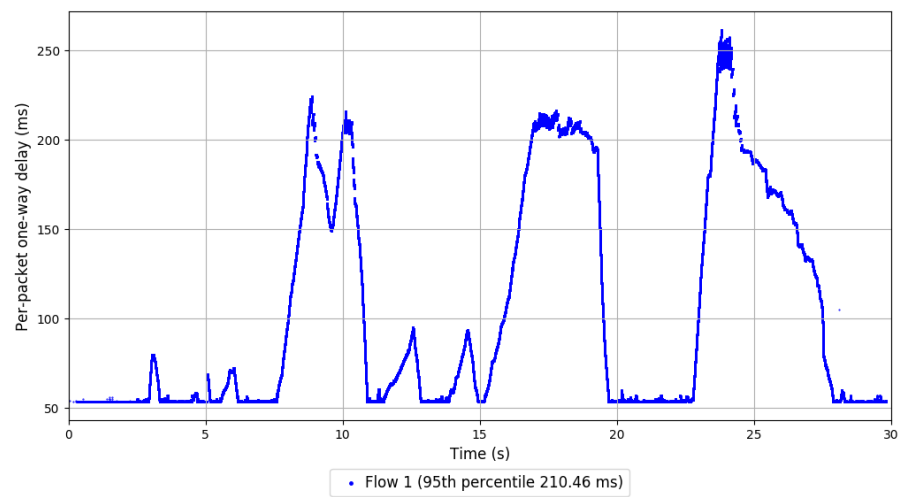
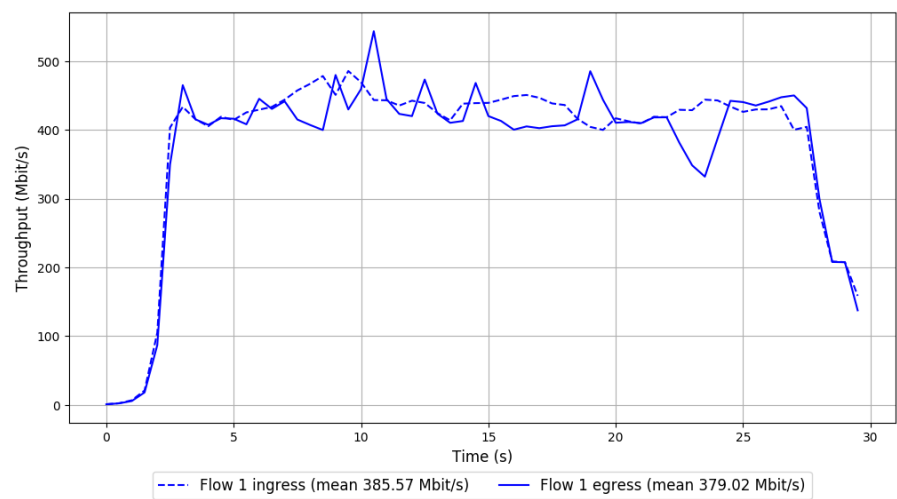


```
Run 1: Statistics of Vivace-loss

Start at: 2018-03-20 13:34:45
End at: 2018-03-20 13:35:15

# Below is generated by plot.py at 2018-03-20 19:42:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 379.02 Mbit/s
95th percentile per-packet one-way delay: 210.462 ms
Loss rate: 2.04%
-- Flow 1:
Average throughput: 379.02 Mbit/s
95th percentile per-packet one-way delay: 210.462 ms
Loss rate: 2.04%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-03-20 13:49:09

End at: 2018-03-20 13:49:39

Below is generated by plot.py at 2018-03-20 19:42:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 341.83 Mbit/s

95th percentile per-packet one-way delay: 186.401 ms

Loss rate: 4.58%

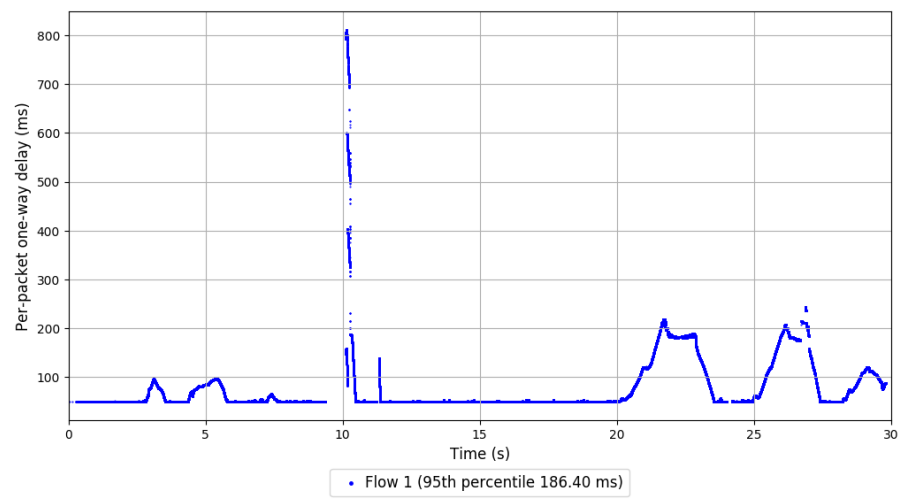
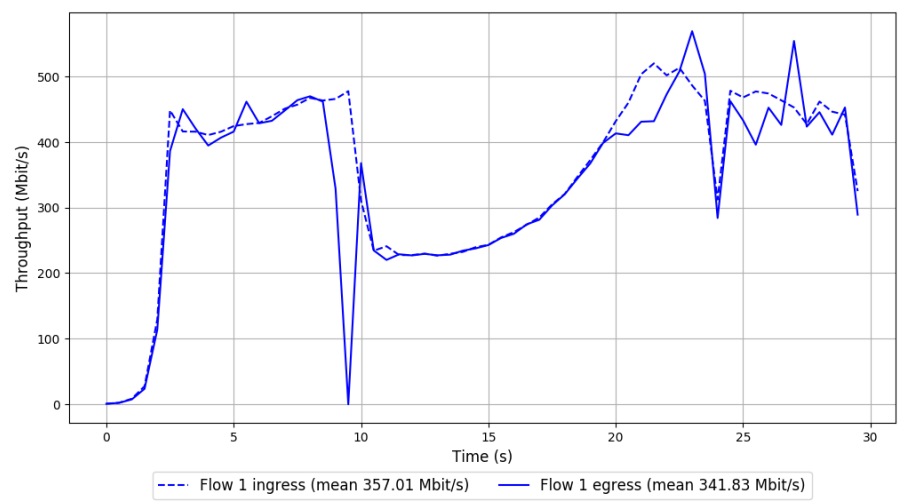
-- Flow 1:

Average throughput: 341.83 Mbit/s

95th percentile per-packet one-way delay: 186.401 ms

Loss rate: 4.58%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-03-20 14:03:44

End at: 2018-03-20 14:04:14

Below is generated by plot.py at 2018-03-20 19:42:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 367.01 Mbit/s

95th percentile per-packet one-way delay: 200.746 ms

Loss rate: 1.19%

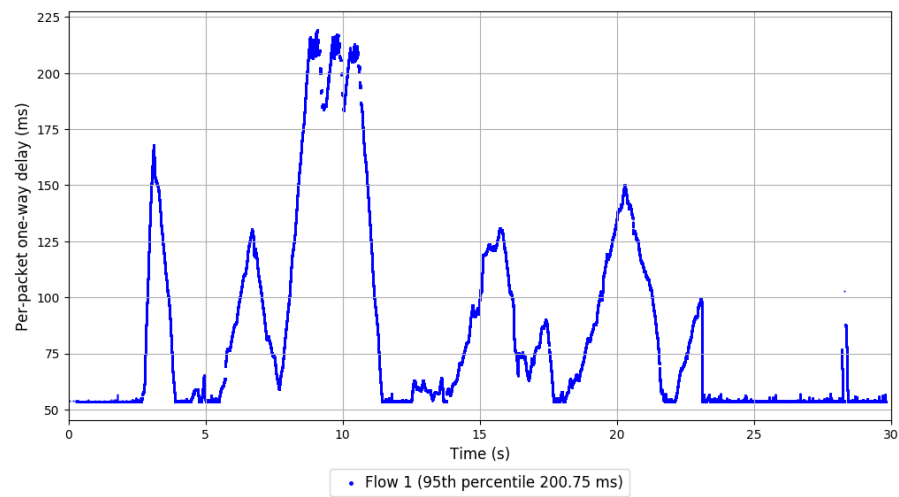
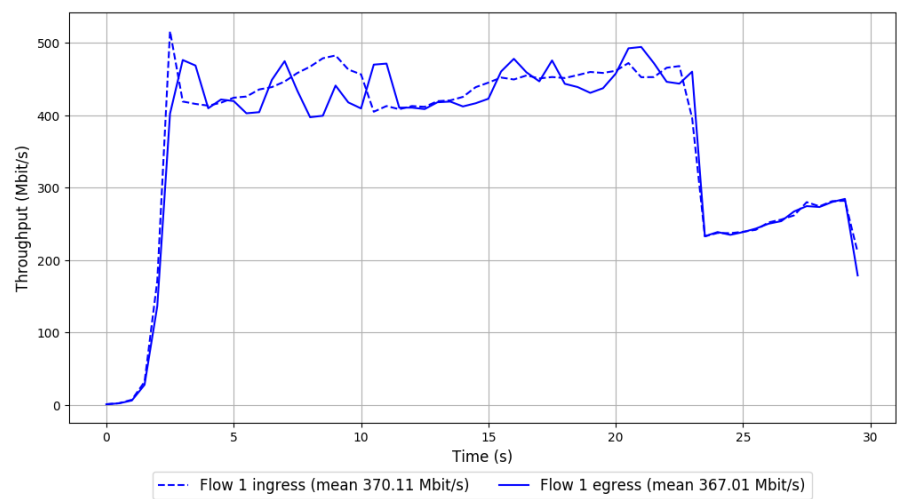
-- Flow 1:

Average throughput: 367.01 Mbit/s

95th percentile per-packet one-way delay: 200.746 ms

Loss rate: 1.19%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-03-20 14:18:12

End at: 2018-03-20 14:18:42

Below is generated by plot.py at 2018-03-20 19:43:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 298.99 Mbit/s

95th percentile per-packet one-way delay: 211.923 ms

Loss rate: 4.58%

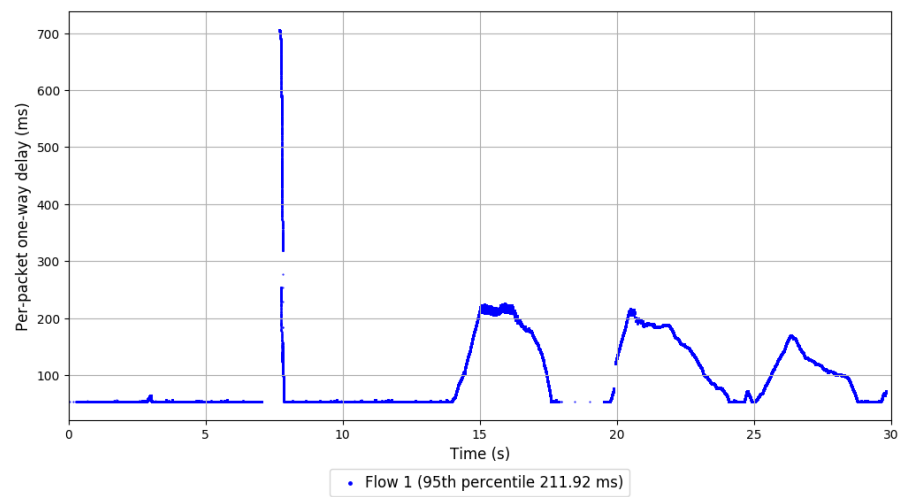
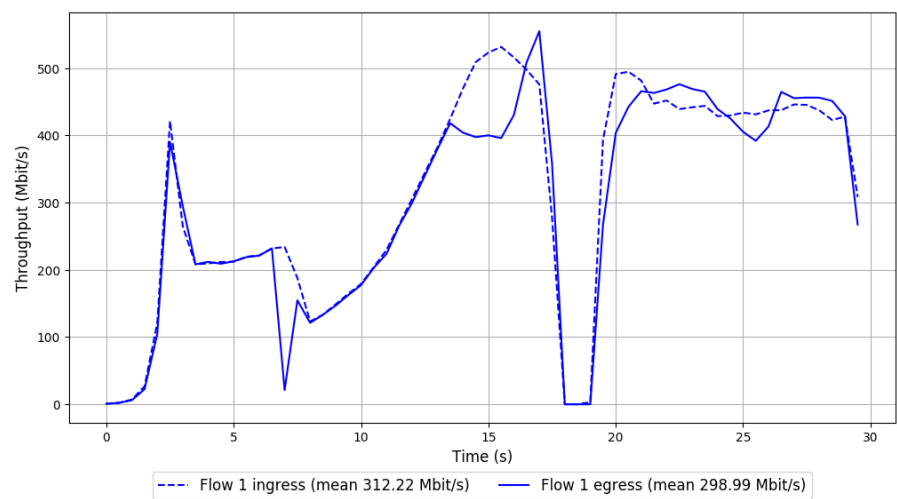
-- Flow 1:

Average throughput: 298.99 Mbit/s

95th percentile per-packet one-way delay: 211.923 ms

Loss rate: 4.58%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-03-20 14:32:39

End at: 2018-03-20 14:33:09

Below is generated by plot.py at 2018-03-20 19:46:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 348.40 Mbit/s

95th percentile per-packet one-way delay: 206.956 ms

Loss rate: 4.44%

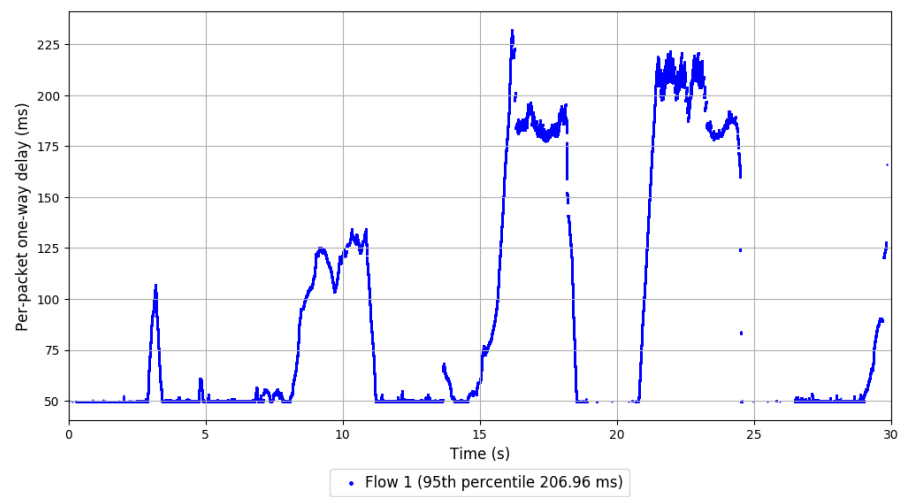
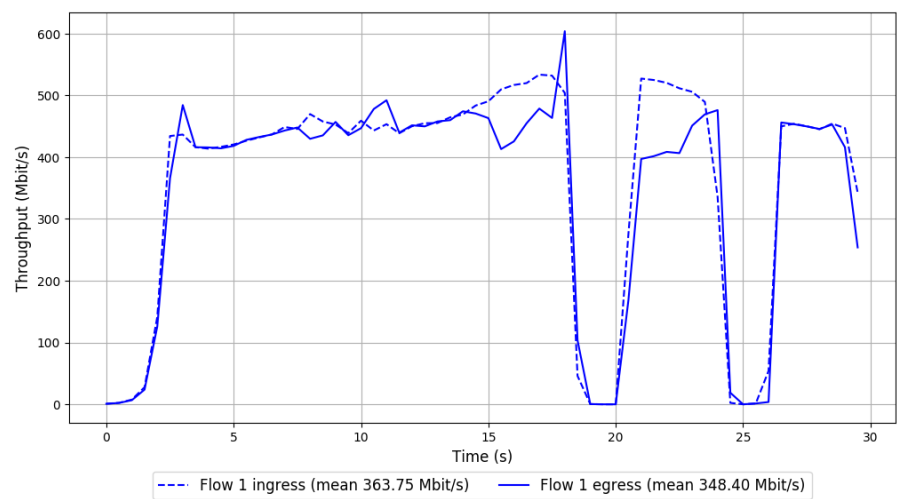
-- Flow 1:

Average throughput: 348.40 Mbit/s

95th percentile per-packet one-way delay: 206.956 ms

Loss rate: 4.44%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-03-20 14:46:53

End at: 2018-03-20 14:47:23

Below is generated by plot.py at 2018-03-20 19:47:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 401.82 Mbit/s

95th percentile per-packet one-way delay: 211.265 ms

Loss rate: 3.31%

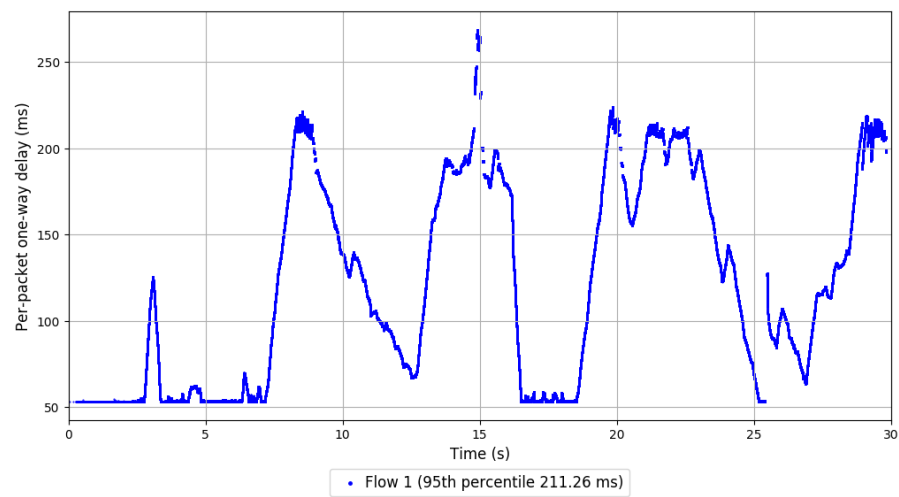
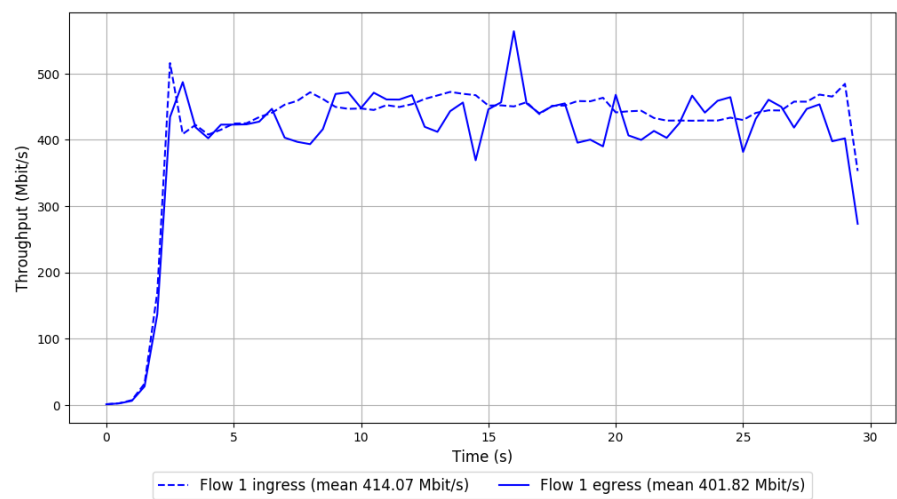
-- Flow 1:

Average throughput: 401.82 Mbit/s

95th percentile per-packet one-way delay: 211.265 ms

Loss rate: 3.31%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-03-20 15:01:34

End at: 2018-03-20 15:02:04

Below is generated by plot.py at 2018-03-20 19:47:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 385.14 Mbit/s

95th percentile per-packet one-way delay: 208.927 ms

Loss rate: 5.03%

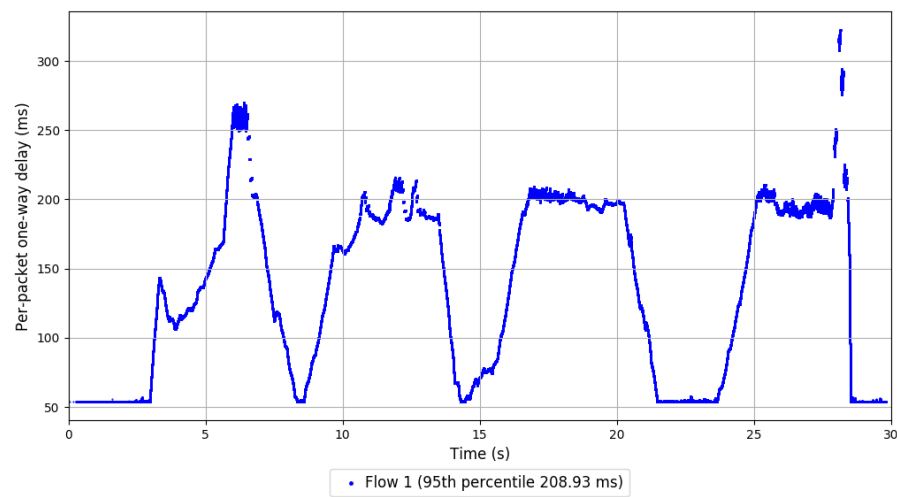
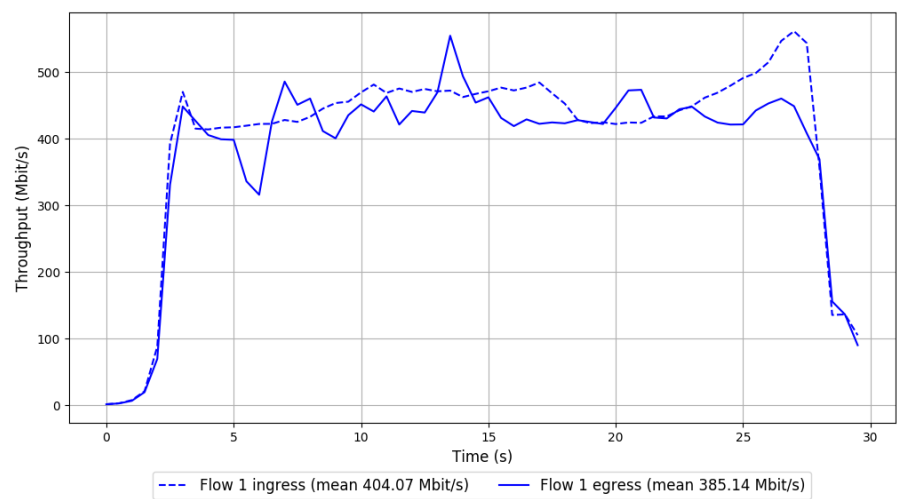
-- Flow 1:

Average throughput: 385.14 Mbit/s

95th percentile per-packet one-way delay: 208.927 ms

Loss rate: 5.03%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-03-20 15:16:10

End at: 2018-03-20 15:16:40

Below is generated by plot.py at 2018-03-20 19:47:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 359.55 Mbit/s

95th percentile per-packet one-way delay: 215.713 ms

Loss rate: 4.32%

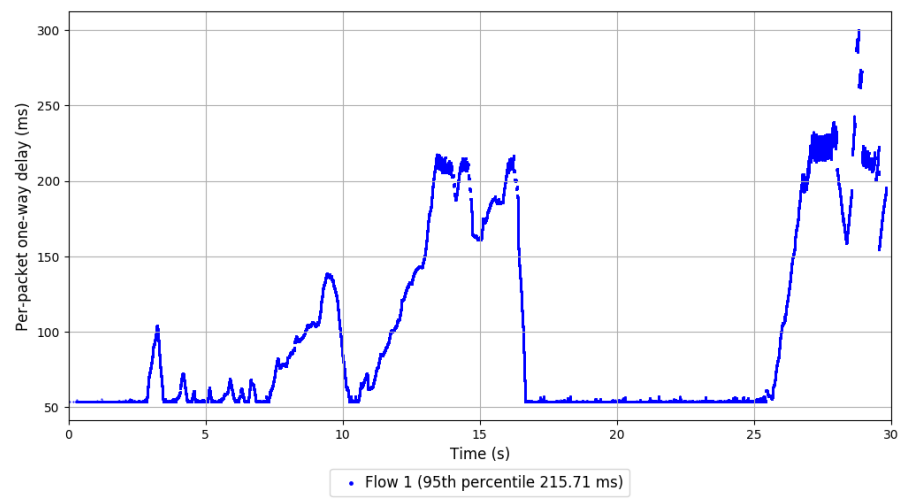
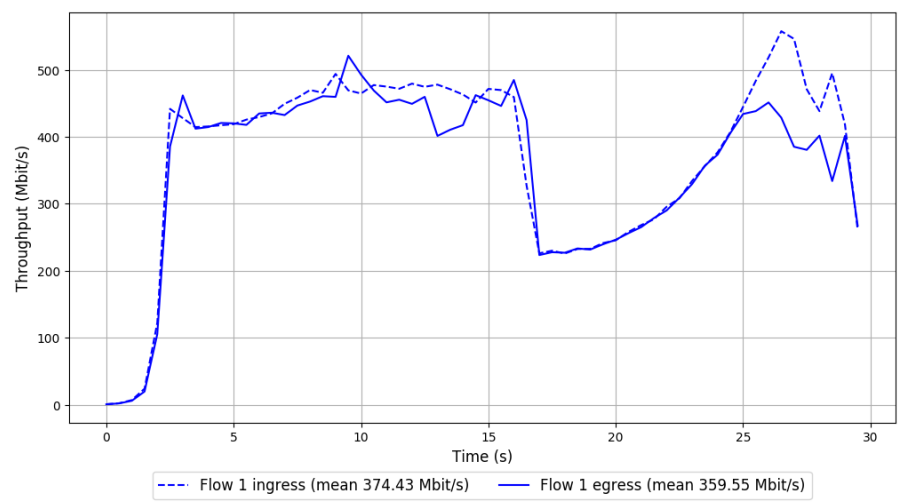
-- Flow 1:

Average throughput: 359.55 Mbit/s

95th percentile per-packet one-way delay: 215.713 ms

Loss rate: 4.32%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-03-20 15:30:43

End at: 2018-03-20 15:31:13

Below is generated by plot.py at 2018-03-20 19:47:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 302.70 Mbit/s

95th percentile per-packet one-way delay: 204.195 ms

Loss rate: 3.03%

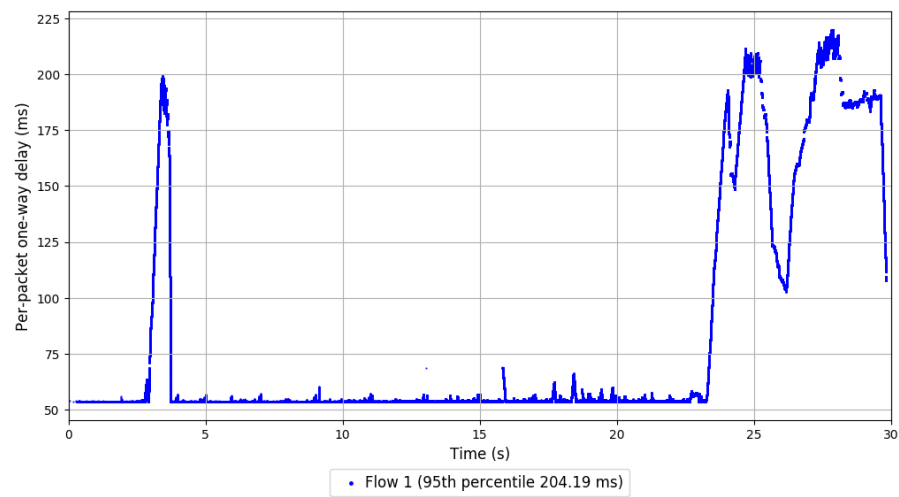
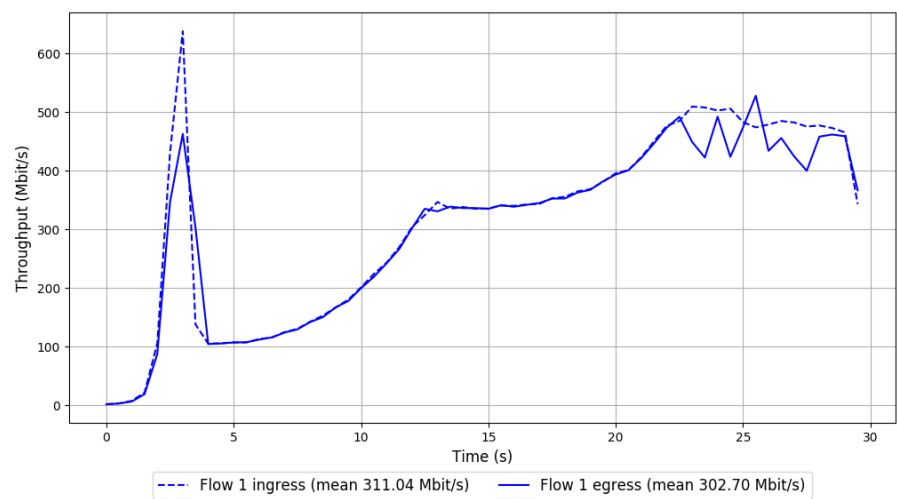
-- Flow 1:

Average throughput: 302.70 Mbit/s

95th percentile per-packet one-way delay: 204.195 ms

Loss rate: 3.03%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-03-20 15:44:58

End at: 2018-03-20 15:45:28

Below is generated by plot.py at 2018-03-20 19:49:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 358.20 Mbit/s

95th percentile per-packet one-way delay: 191.314 ms

Loss rate: 2.08%

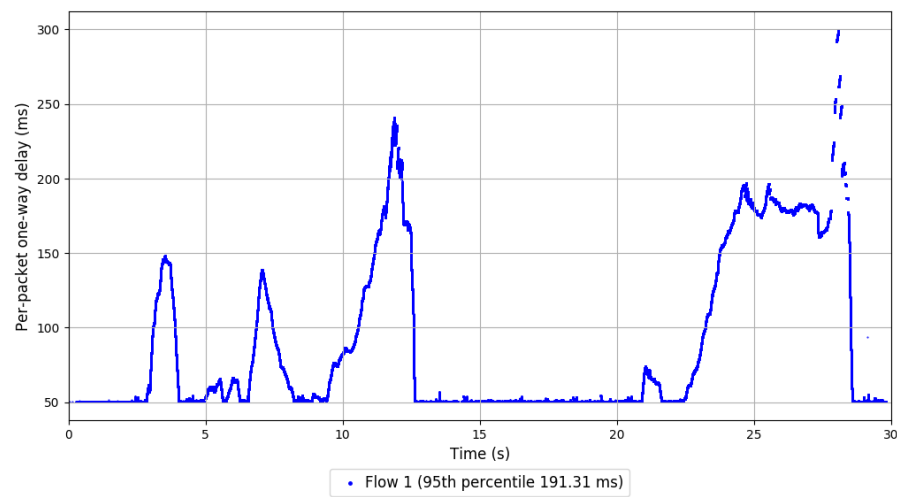
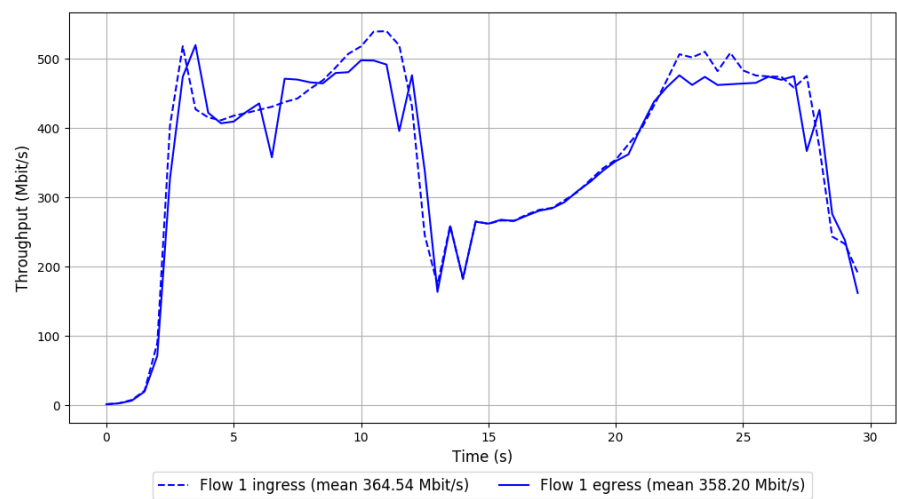
-- Flow 1:

Average throughput: 358.20 Mbit/s

95th percentile per-packet one-way delay: 191.314 ms

Loss rate: 2.08%

Run 10: Report of Vivace-loss — Data Link

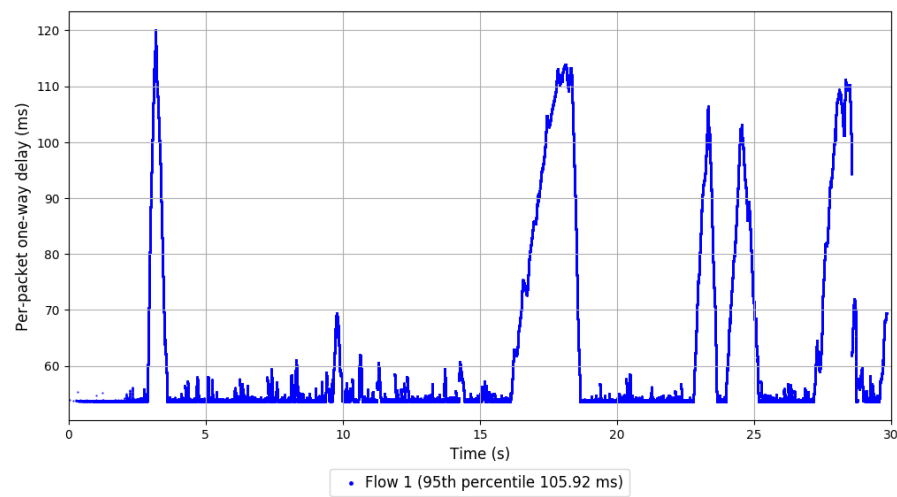
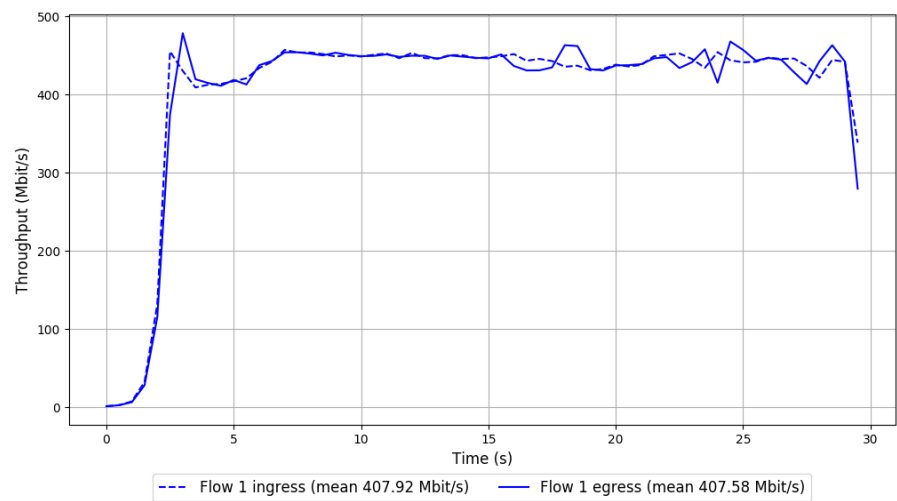


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-03-20 13:41:14
End at: 2018-03-20 13:41:44

# Below is generated by plot.py at 2018-03-20 19:50:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 407.58 Mbit/s
95th percentile per-packet one-way delay: 105.915 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 407.58 Mbit/s
95th percentile per-packet one-way delay: 105.915 ms
Loss rate: 0.44%
```


Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-03-20 13:55:36

End at: 2018-03-20 13:56:06

Below is generated by plot.py at 2018-03-20 19:50:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 352.50 Mbit/s

95th percentile per-packet one-way delay: 109.629 ms

Loss rate: 0.43%

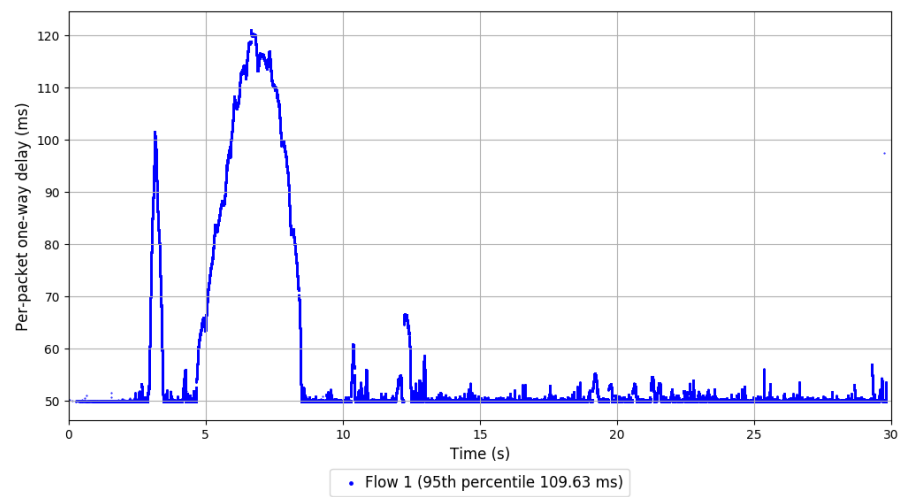
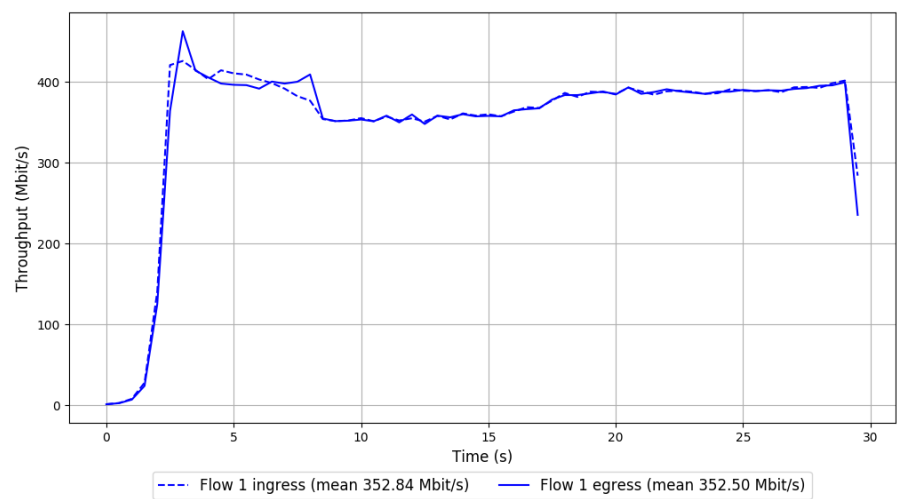
-- Flow 1:

Average throughput: 352.50 Mbit/s

95th percentile per-packet one-way delay: 109.629 ms

Loss rate: 0.43%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-03-20 14:10:05

End at: 2018-03-20 14:10:35

Below is generated by plot.py at 2018-03-20 19:53:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 374.12 Mbit/s

95th percentile per-packet one-way delay: 71.872 ms

Loss rate: 0.45%

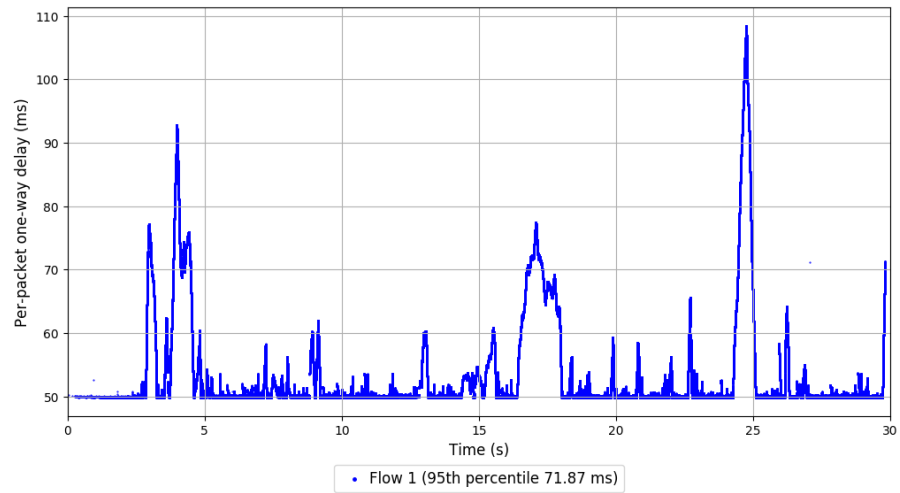
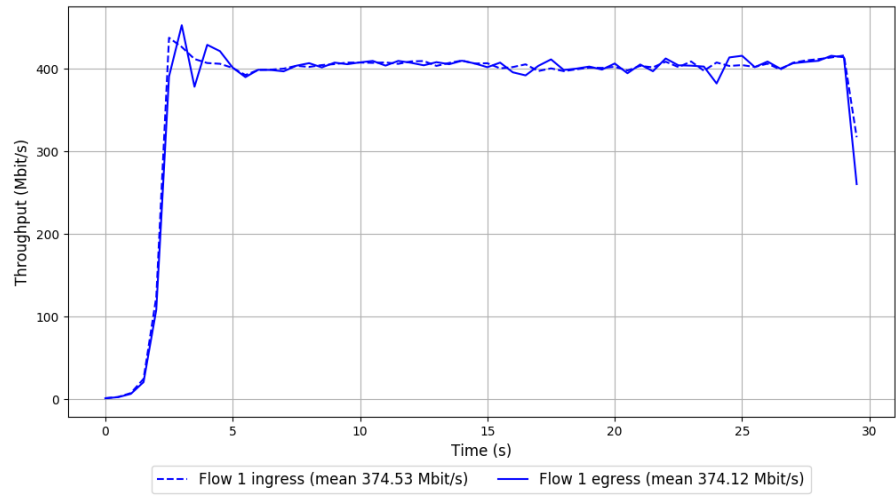
-- Flow 1:

Average throughput: 374.12 Mbit/s

95th percentile per-packet one-way delay: 71.872 ms

Loss rate: 0.45%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-03-20 14:24:31

End at: 2018-03-20 14:25:01

Below is generated by plot.py at 2018-03-20 19:53:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 321.65 Mbit/s

95th percentile per-packet one-way delay: 61.348 ms

Loss rate: 0.43%

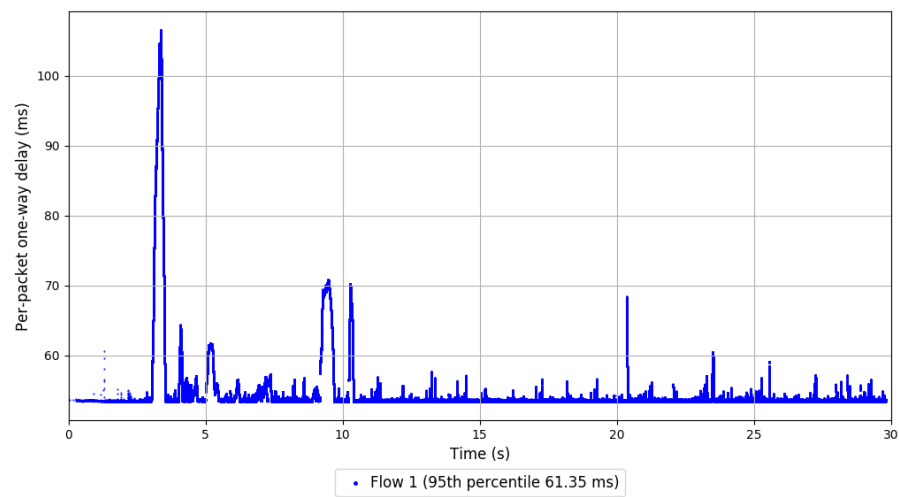
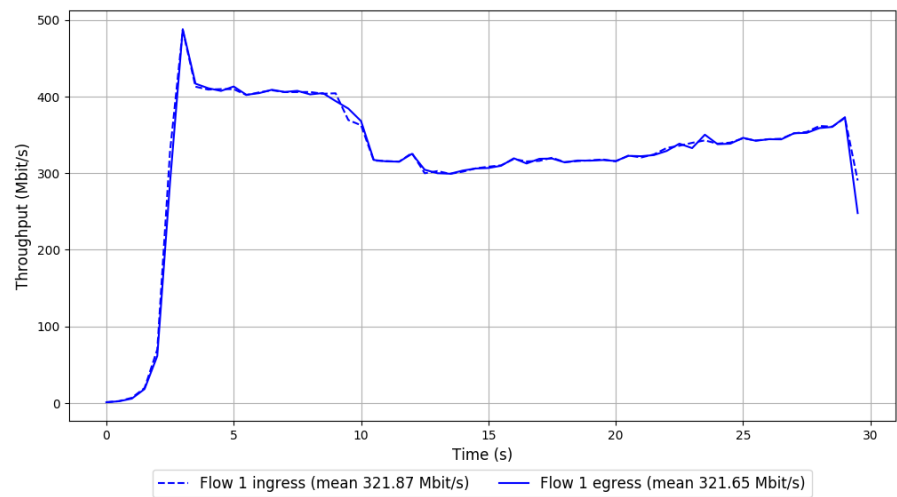
-- Flow 1:

Average throughput: 321.65 Mbit/s

95th percentile per-packet one-way delay: 61.348 ms

Loss rate: 0.43%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-03-20 14:39:03

End at: 2018-03-20 14:39:33

Below is generated by plot.py at 2018-03-20 19:53:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 340.42 Mbit/s

95th percentile per-packet one-way delay: 93.927 ms

Loss rate: 0.53%

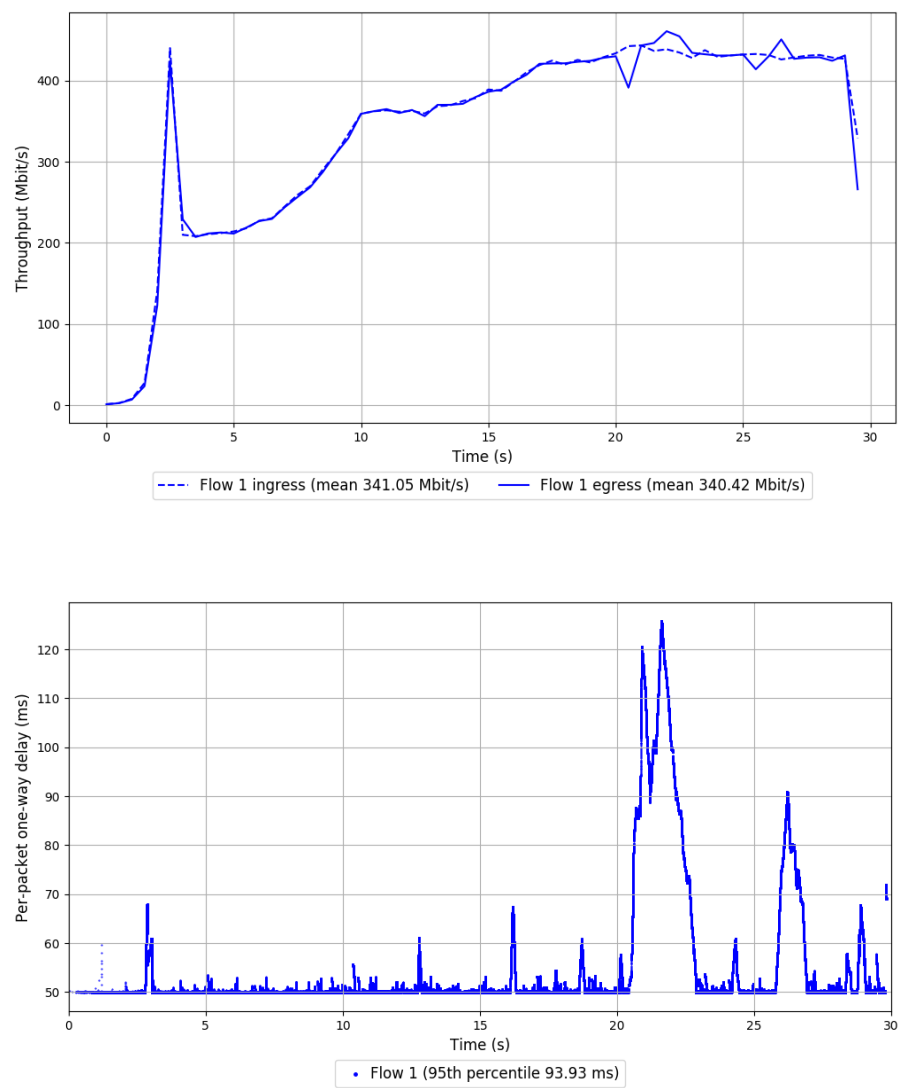
-- Flow 1:

Average throughput: 340.42 Mbit/s

95th percentile per-packet one-way delay: 93.927 ms

Loss rate: 0.53%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-03-20 14:53:24

End at: 2018-03-20 14:53:54

Below is generated by plot.py at 2018-03-20 19:54:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 402.54 Mbit/s

95th percentile per-packet one-way delay: 162.729 ms

Loss rate: 0.36%

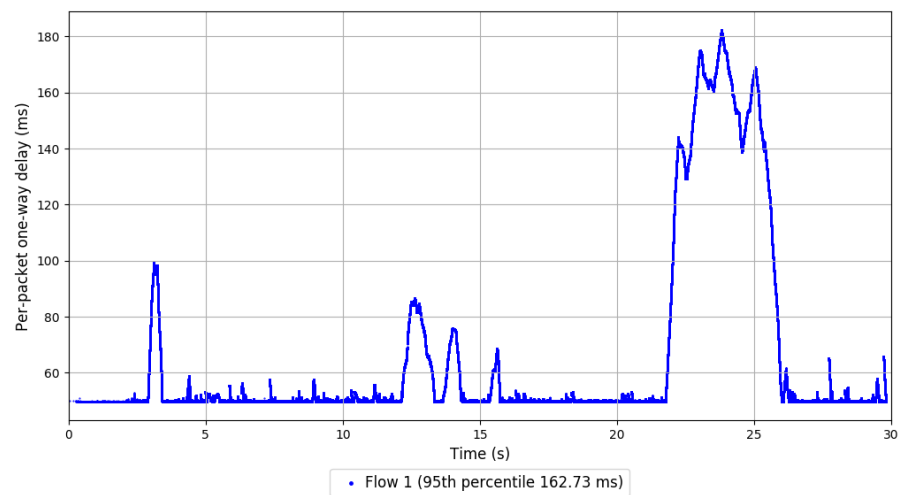
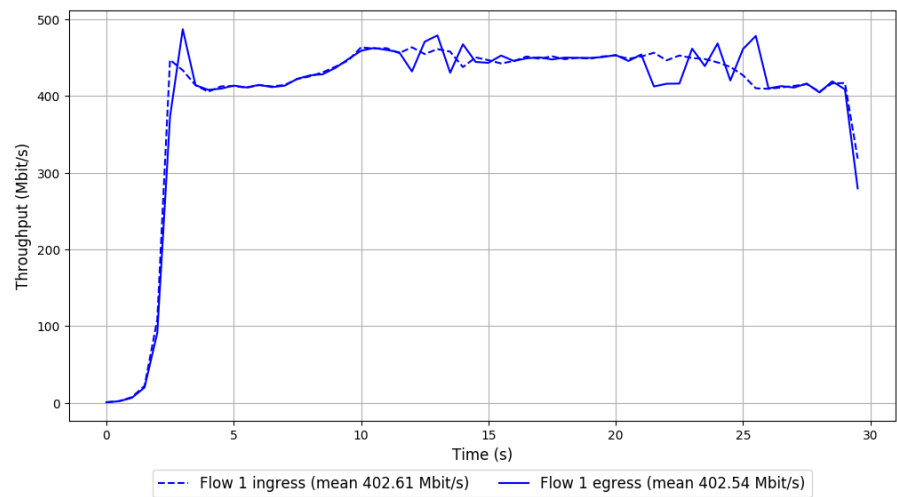
-- Flow 1:

Average throughput: 402.54 Mbit/s

95th percentile per-packet one-way delay: 162.729 ms

Loss rate: 0.36%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-03-20 15:08:01

End at: 2018-03-20 15:08:31

Below is generated by plot.py at 2018-03-20 19:54:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 392.00 Mbit/s

95th percentile per-packet one-way delay: 80.371 ms

Loss rate: 0.45%

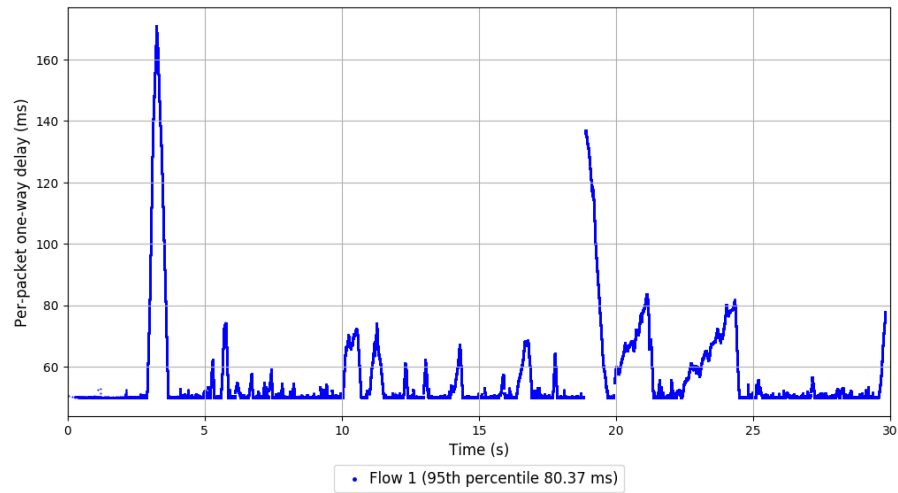
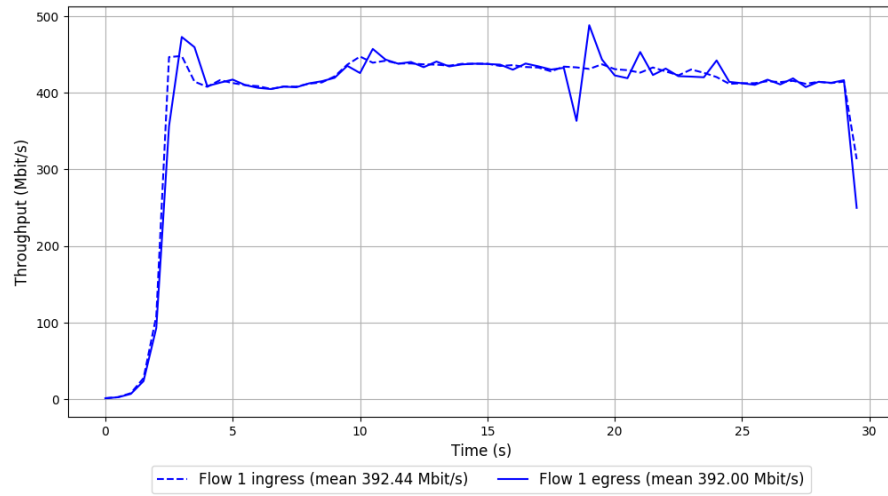
-- Flow 1:

Average throughput: 392.00 Mbit/s

95th percentile per-packet one-way delay: 80.371 ms

Loss rate: 0.45%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-03-20 15:22:34

End at: 2018-03-20 15:23:04

Below is generated by plot.py at 2018-03-20 19:55:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 391.23 Mbit/s

95th percentile per-packet one-way delay: 127.634 ms

Loss rate: 0.37%

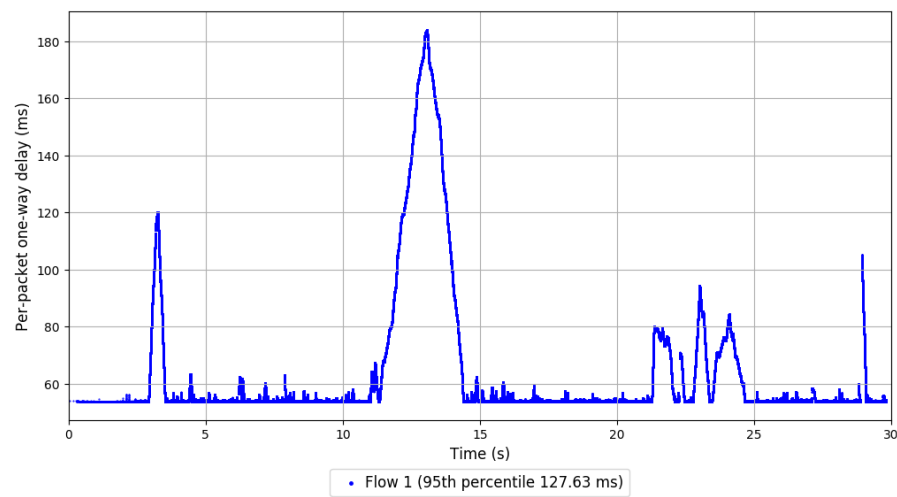
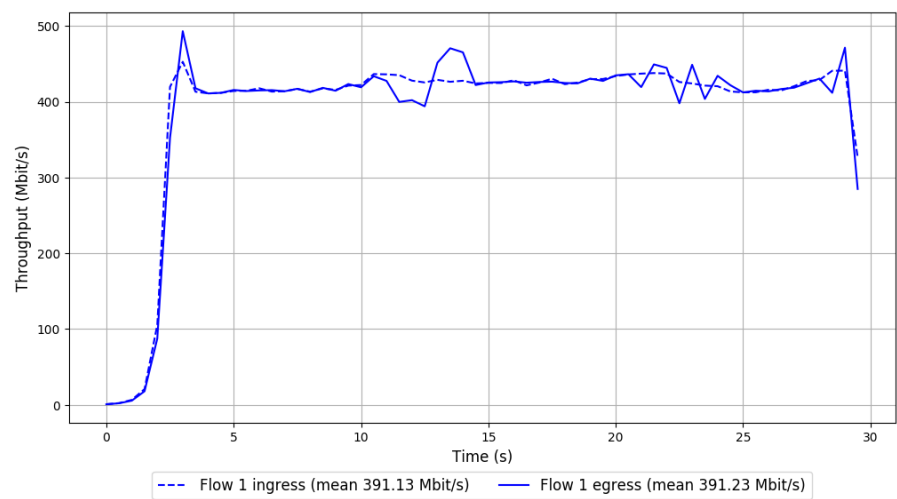
-- Flow 1:

Average throughput: 391.23 Mbit/s

95th percentile per-packet one-way delay: 127.634 ms

Loss rate: 0.37%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-03-20 15:37:05

End at: 2018-03-20 15:37:35

Below is generated by plot.py at 2018-03-20 19:55:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 386.33 Mbit/s

95th percentile per-packet one-way delay: 117.678 ms

Loss rate: 0.39%

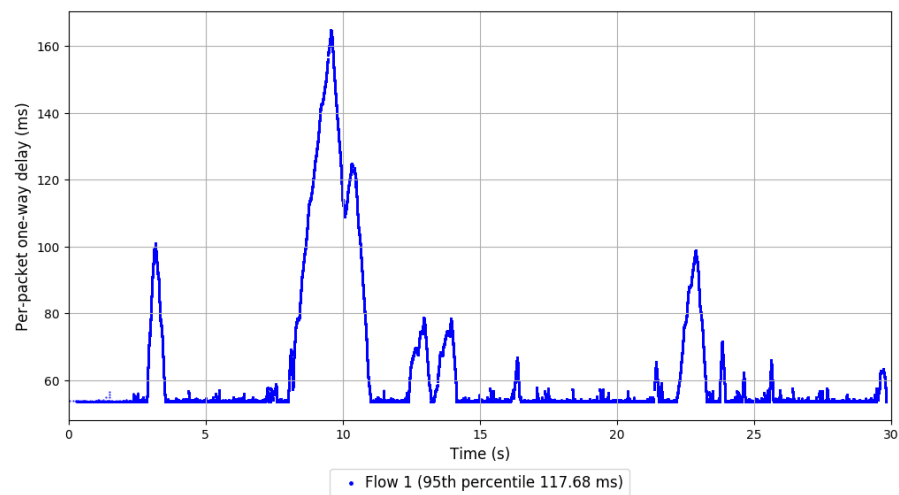
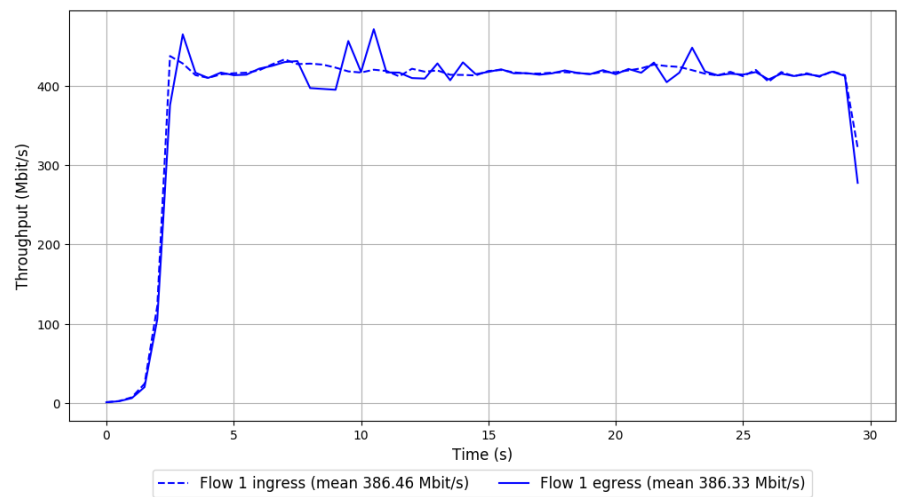
-- Flow 1:

Average throughput: 386.33 Mbit/s

95th percentile per-packet one-way delay: 117.678 ms

Loss rate: 0.39%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-03-20 15:51:30

End at: 2018-03-20 15:52:00

Below is generated by plot.py at 2018-03-20 19:55:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 387.40 Mbit/s

95th percentile per-packet one-way delay: 85.866 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 387.40 Mbit/s

95th percentile per-packet one-way delay: 85.866 ms

Loss rate: 0.50%

Run 10: Report of Vivace-LTE — Data Link

