

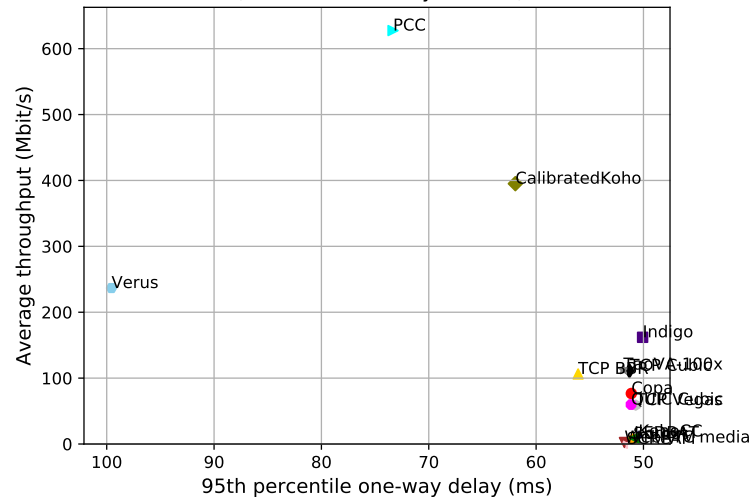
Pantheon Report

Generated at 2017-09-18 08:15:24 (UTC).
Data path: GCE Sydney Ethernet (*local*) → GCE Tokyo Ethernet (*remote*).
Repeated the test of 15 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**).

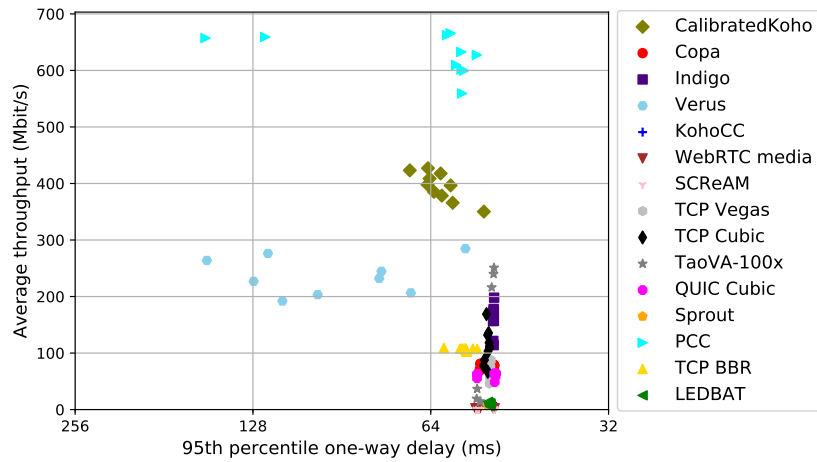
Git summary:

```
branch: master @ 57453dc11f8da93a2e03eea75289fea01b816298
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
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-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
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/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

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



test from GCE Sydney Ethernet to GCE Tokyo 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	106.35	56.09	0.01
CalibratedKoho	10	395.12	61.93	0.01
Copa	10	76.69	51.13	0.00
TCP Cubic	10	111.12	51.31	0.01
Indigo	10	161.96	50.08	0.00
KohoCC	10	11.45	50.47	0.02
LEDBAT	10	9.01	50.87	0.10
PCC	10	627.47	73.33	0.17
QUIC Cubic	8	59.89	51.16	0.00
SCReAM	10	0.21	51.55	0.00
Sprout	10	7.89	50.95	0.08
TaoVA-100x	7	113.01	51.87	0.00
TCP Vegas	10	59.04	50.72	0.01
Verus	9	236.71	99.56	0.14
WebRTC media	10	2.30	51.77	0.00

Run 1: Statistics of TCP BBR

Start at: 2017-09-18 04:26:50

End at: 2017-09-18 04:27:20

Below is generated by plot.py at 2017-09-18 07:30:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 107.28 Mbit/s

95th percentile per-packet one-way delay: 53.394 ms

Loss rate: 0.00%

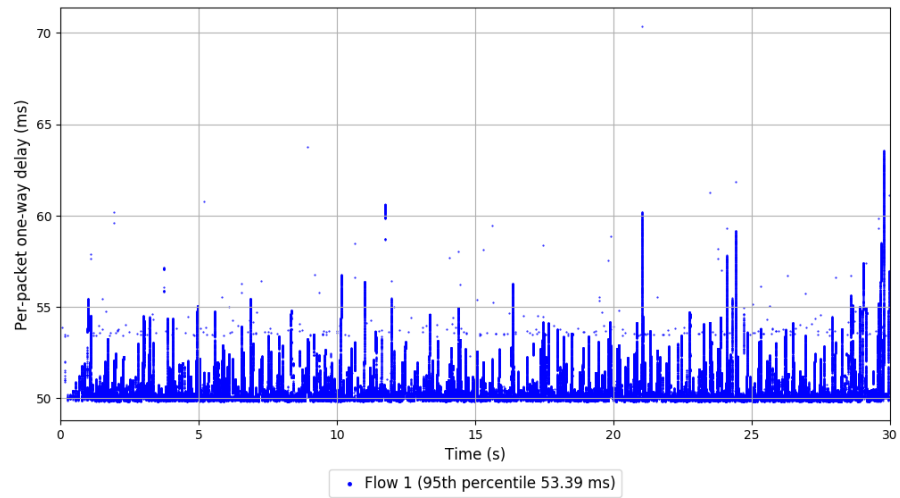
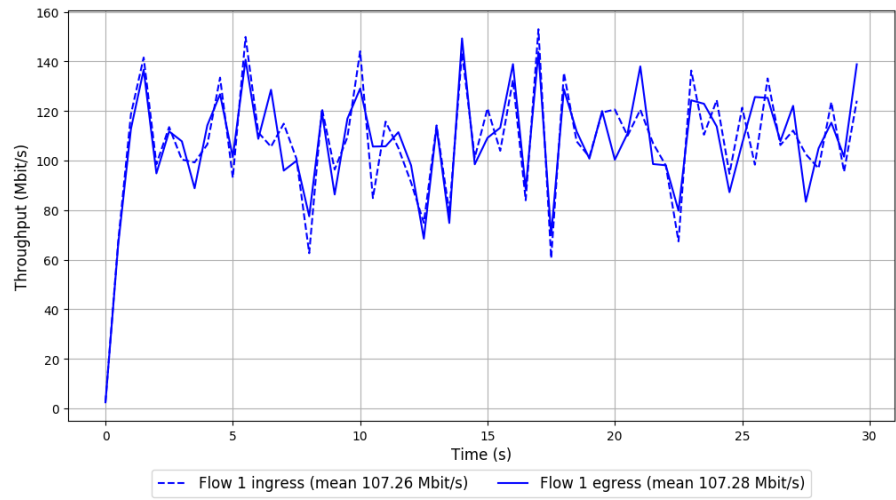
-- Flow 1:

Average throughput: 107.28 Mbit/s

95th percentile per-packet one-way delay: 53.394 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-09-18 04:37:55

End at: 2017-09-18 04:38:25

Below is generated by plot.py at 2017-09-18 07:30:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 105.26 Mbit/s

95th percentile per-packet one-way delay: 55.884 ms

Loss rate: 0.00%

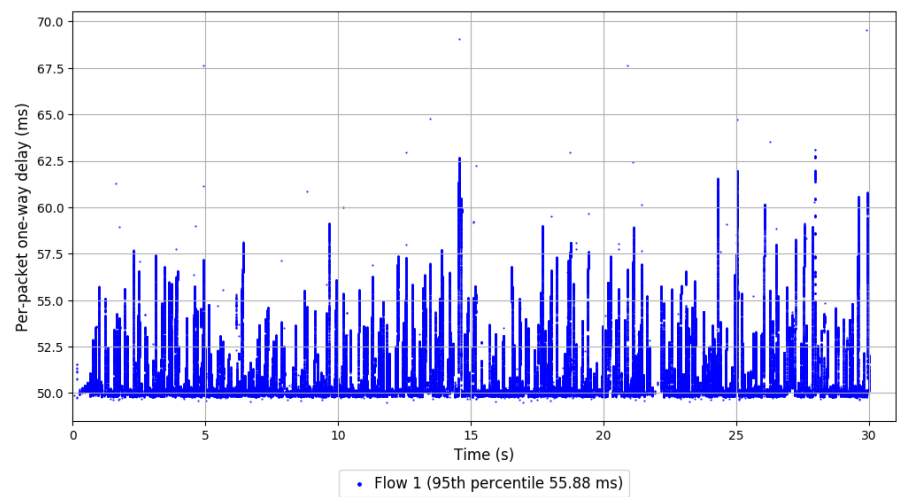
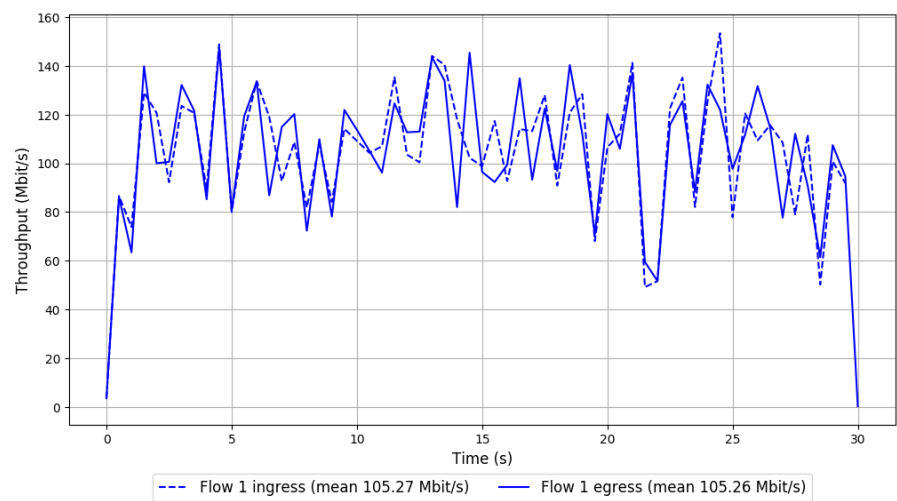
-- Flow 1:

Average throughput: 105.26 Mbit/s

95th percentile per-packet one-way delay: 55.884 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-09-18 04:49:34

End at: 2017-09-18 04:50:04

Below is generated by plot.py at 2017-09-18 07:30:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 109.13 Mbit/s

95th percentile per-packet one-way delay: 60.810 ms

Loss rate: 0.05%

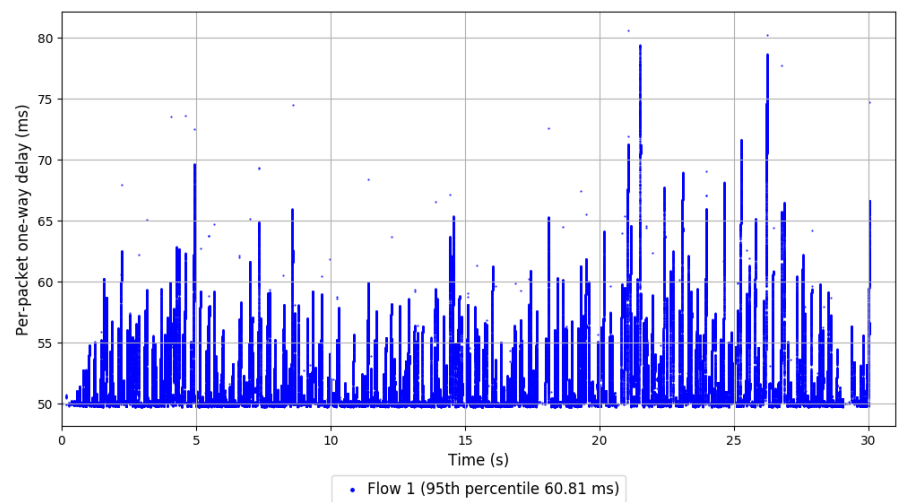
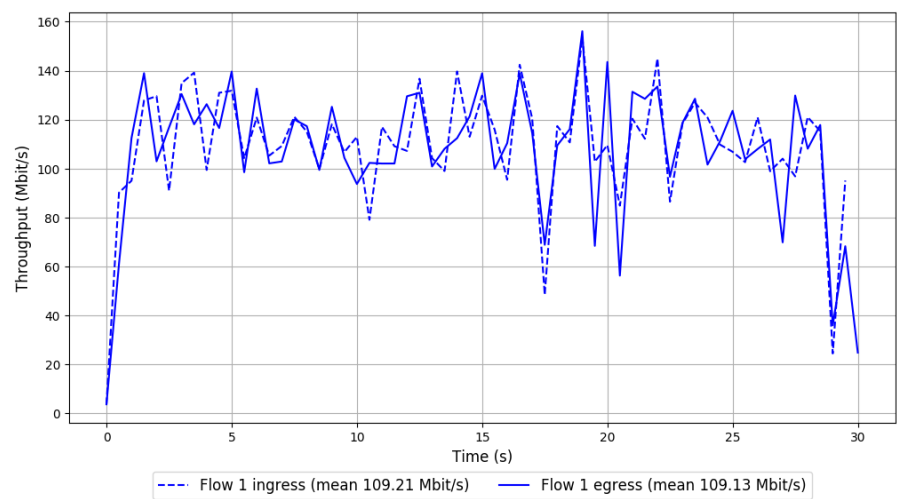
-- Flow 1:

Average throughput: 109.13 Mbit/s

95th percentile per-packet one-way delay: 60.810 ms

Loss rate: 0.05%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-09-18 05:00:46

End at: 2017-09-18 05:01:16

Below is generated by plot.py at 2017-09-18 07:30:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.55 Mbit/s

95th percentile per-packet one-way delay: 55.634 ms

Loss rate: 0.05%

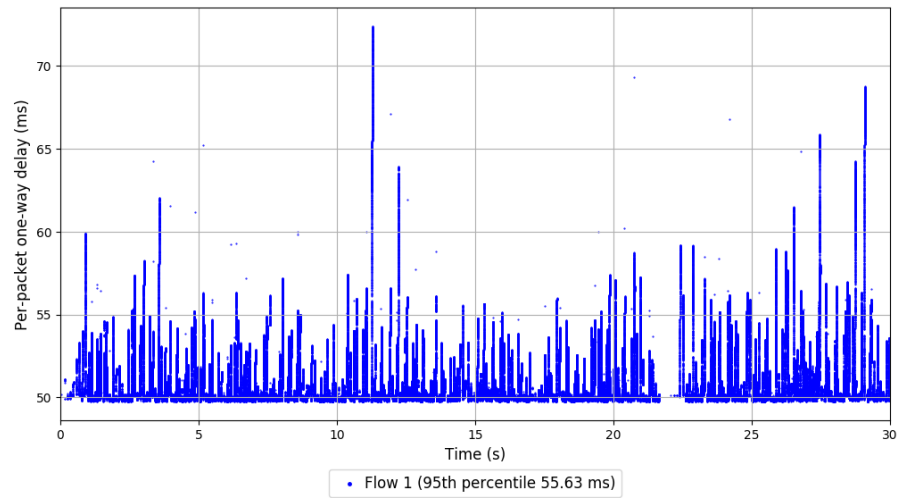
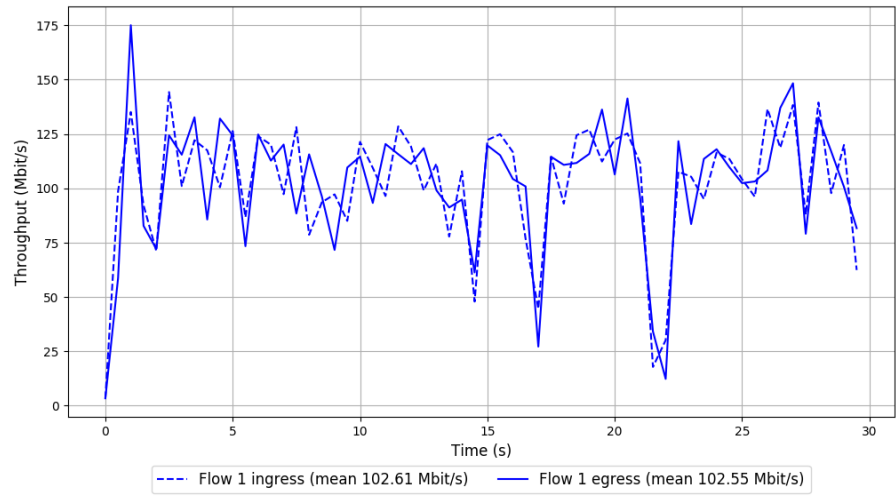
-- Flow 1:

Average throughput: 102.55 Mbit/s

95th percentile per-packet one-way delay: 55.634 ms

Loss rate: 0.05%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-09-18 05:12:31

End at: 2017-09-18 05:13:01

Below is generated by plot.py at 2017-09-18 07:30:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 108.80 Mbit/s

95th percentile per-packet one-way delay: 55.890 ms

Loss rate: 0.00%

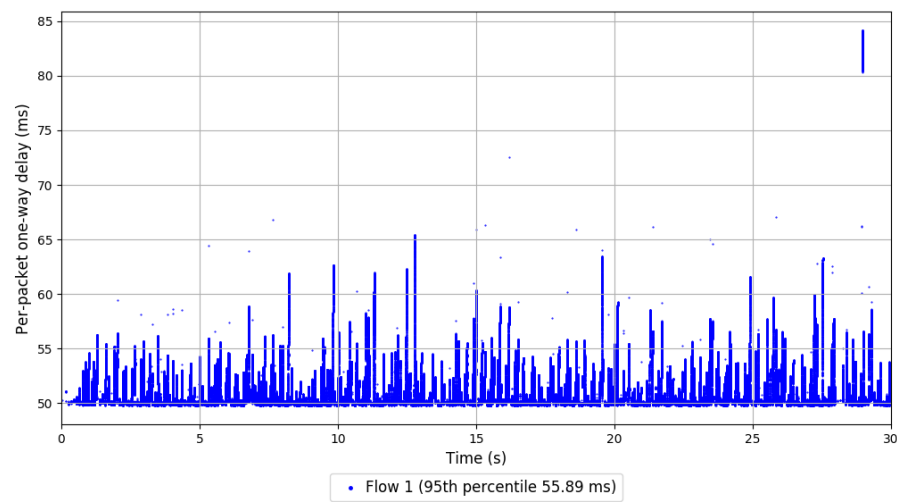
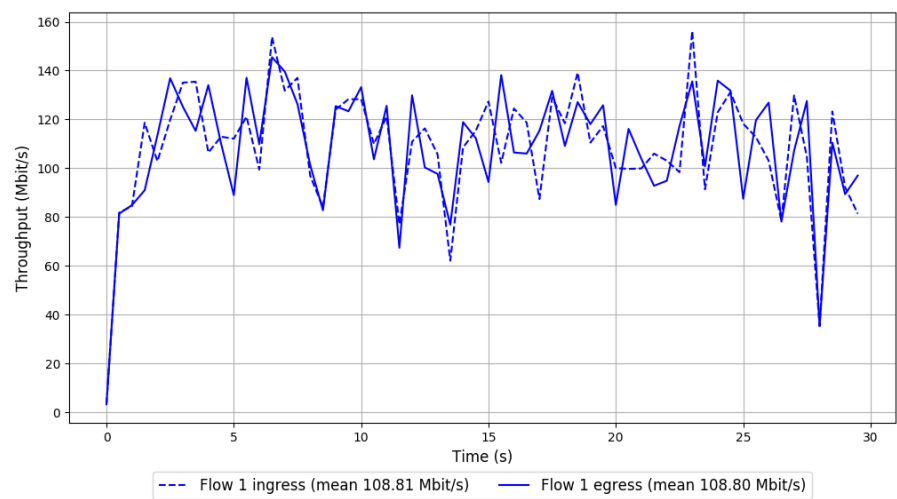
-- Flow 1:

Average throughput: 108.80 Mbit/s

95th percentile per-packet one-way delay: 55.890 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-09-18 05:23:49

End at: 2017-09-18 05:24:19

Below is generated by plot.py at 2017-09-18 07:30:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 108.60 Mbit/s

95th percentile per-packet one-way delay: 56.580 ms

Loss rate: 0.00%

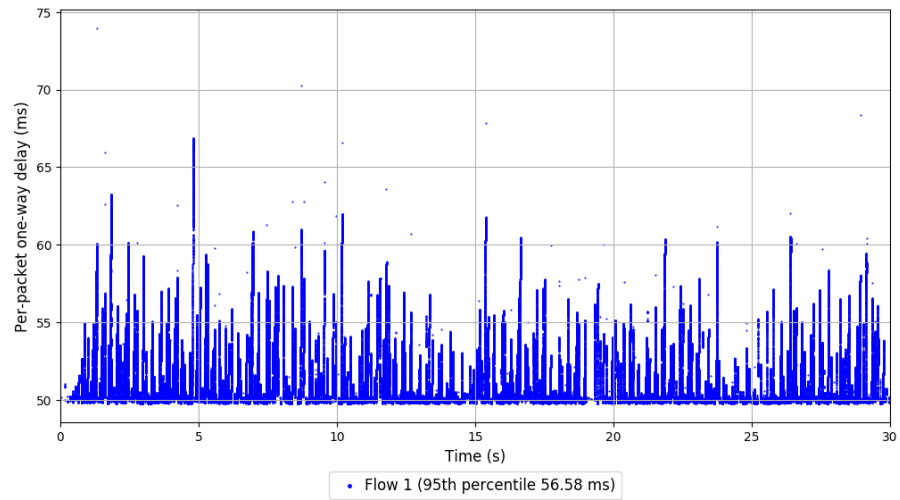
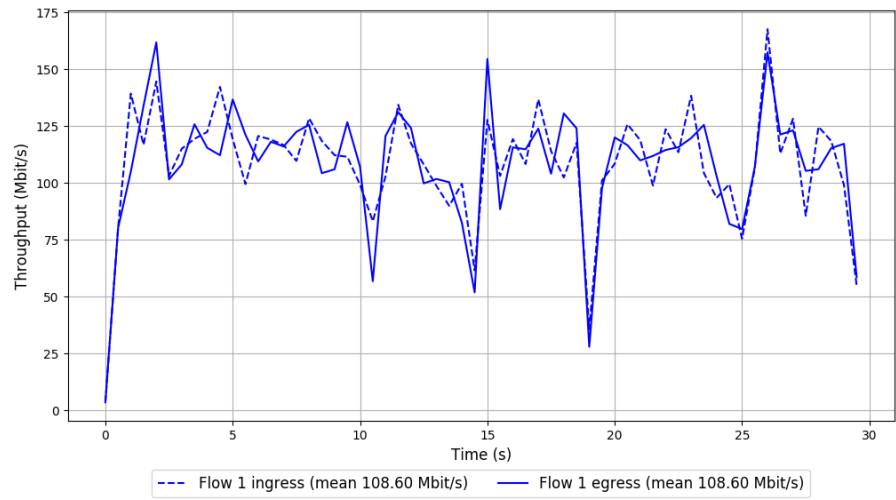
-- Flow 1:

Average throughput: 108.60 Mbit/s

95th percentile per-packet one-way delay: 56.580 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-09-18 05:35:05

End at: 2017-09-18 05:35:35

Below is generated by plot.py at 2017-09-18 07:30:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 107.51 Mbit/s

95th percentile per-packet one-way delay: 57.096 ms

Loss rate: 0.00%

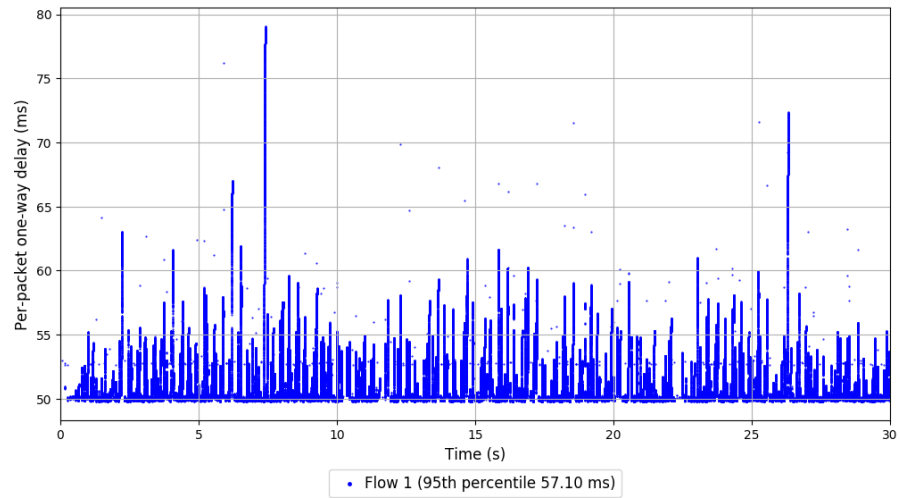
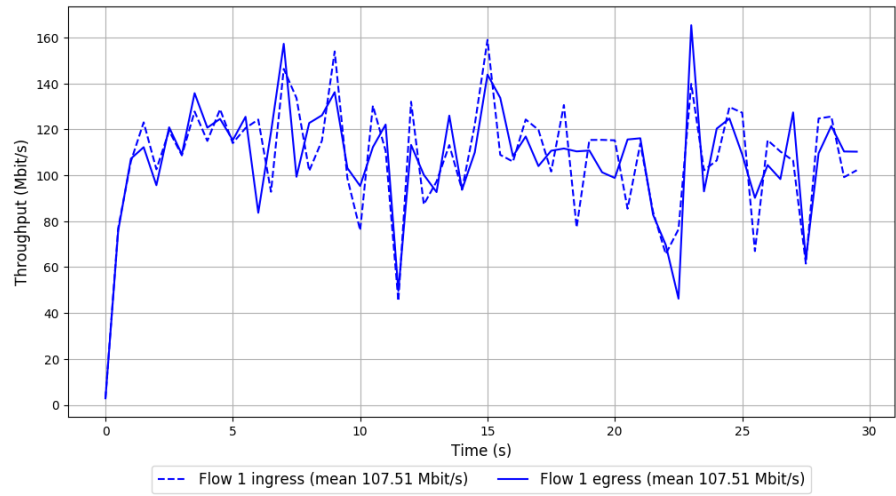
-- Flow 1:

Average throughput: 107.51 Mbit/s

95th percentile per-packet one-way delay: 57.096 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-09-18 05:46:26

End at: 2017-09-18 05:46:56

Below is generated by plot.py at 2017-09-18 07:30:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.27 Mbit/s

95th percentile per-packet one-way delay: 55.593 ms

Loss rate: 0.01%

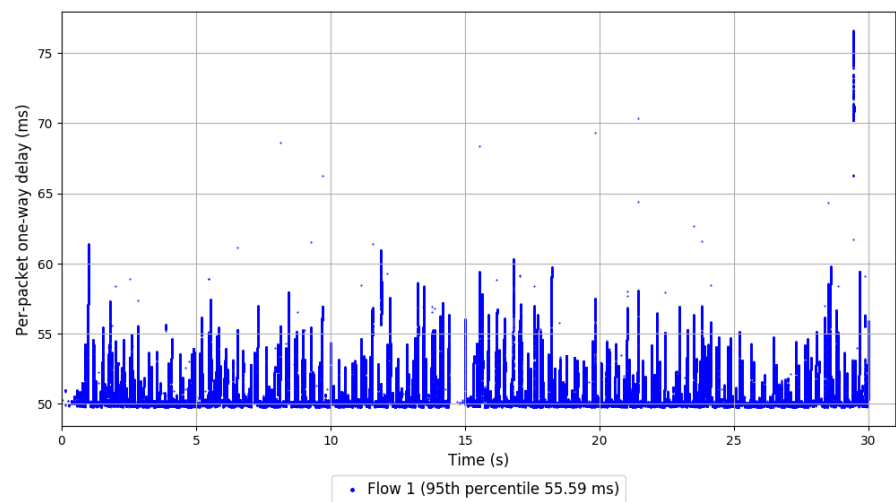
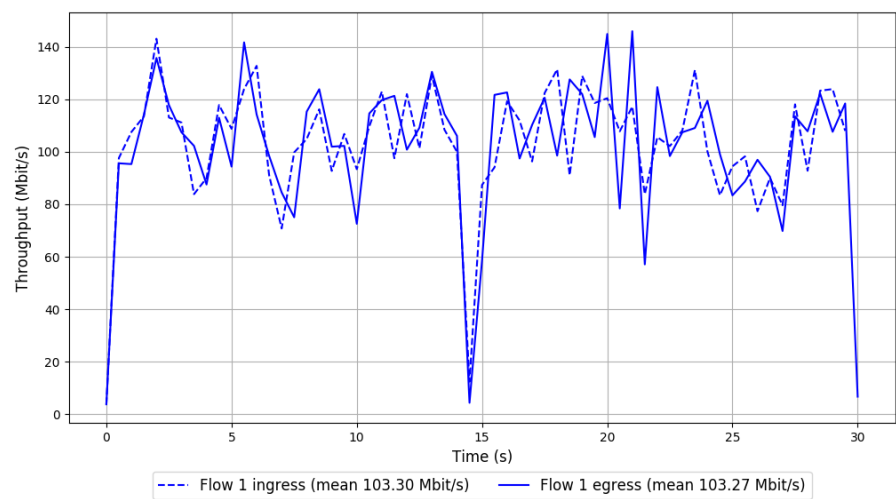
-- Flow 1:

Average throughput: 103.27 Mbit/s

95th percentile per-packet one-way delay: 55.593 ms

Loss rate: 0.01%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-09-18 05:57:51

End at: 2017-09-18 05:58:21

Below is generated by plot.py at 2017-09-18 07:32:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 107.82 Mbit/s

95th percentile per-packet one-way delay: 54.299 ms

Loss rate: 0.01%

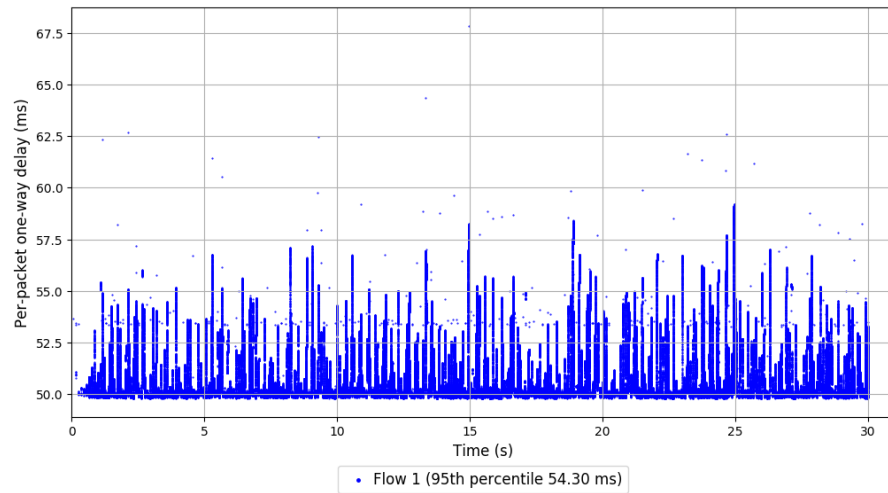
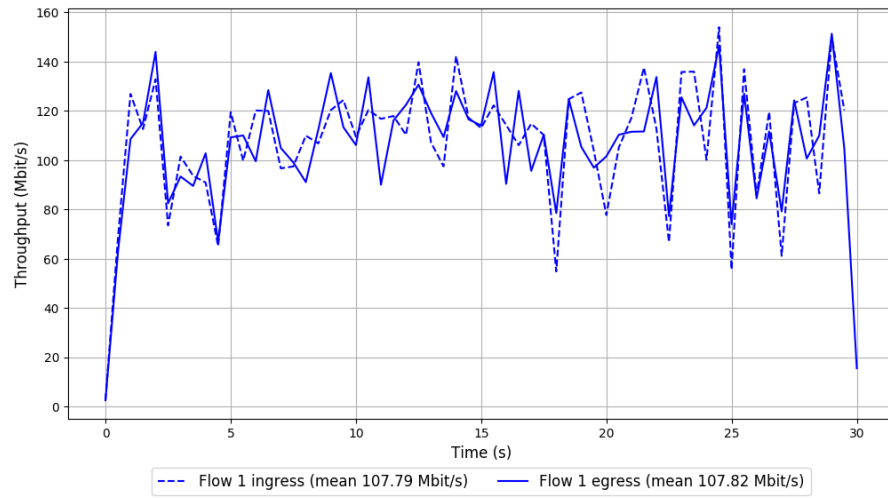
-- Flow 1:

Average throughput: 107.82 Mbit/s

95th percentile per-packet one-way delay: 54.299 ms

Loss rate: 0.01%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-09-18 06:09:13

End at: 2017-09-18 06:09:43

Below is generated by plot.py at 2017-09-18 07:32:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.30 Mbit/s

95th percentile per-packet one-way delay: 55.695 ms

Loss rate: 0.00%

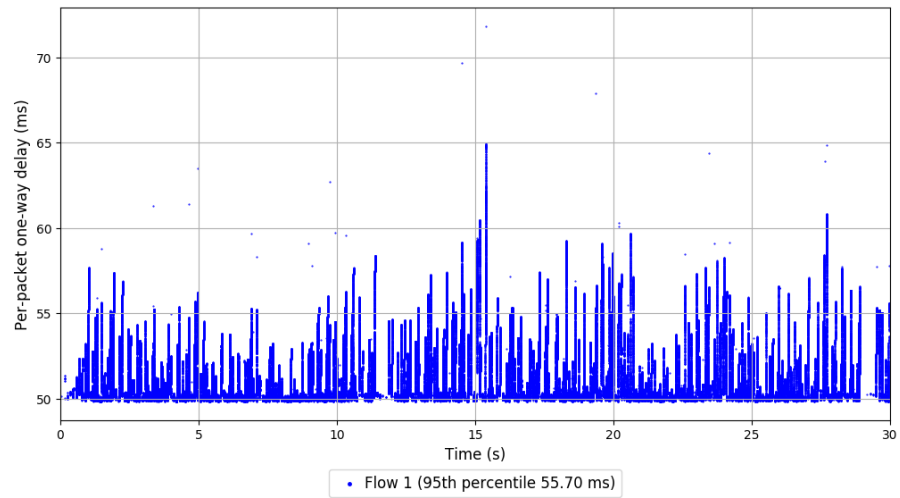
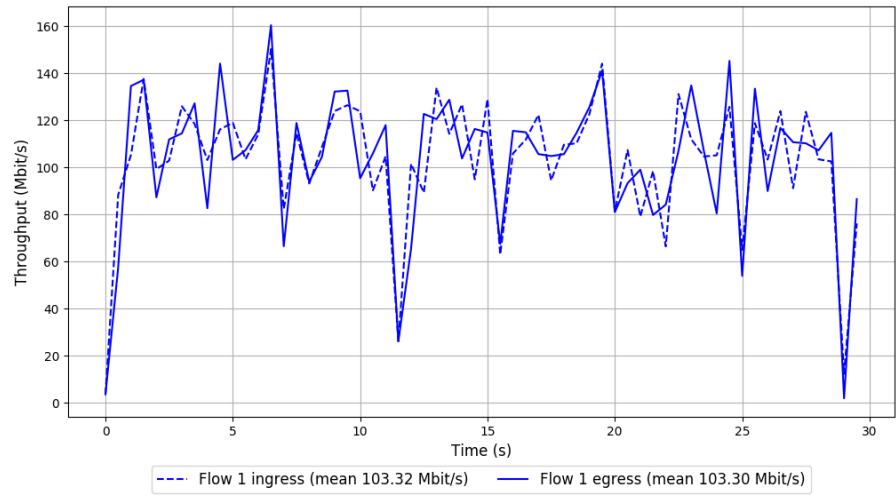
-- Flow 1:

Average throughput: 103.30 Mbit/s

95th percentile per-packet one-way delay: 55.695 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of CalibratedKoho

Start at: 2017-09-18 04:20:50

End at: 2017-09-18 04:21:20

Below is generated by plot.py at 2017-09-18 07:37:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 365.83 Mbit/s

95th percentile per-packet one-way delay: 58.757 ms

Loss rate: 0.00%

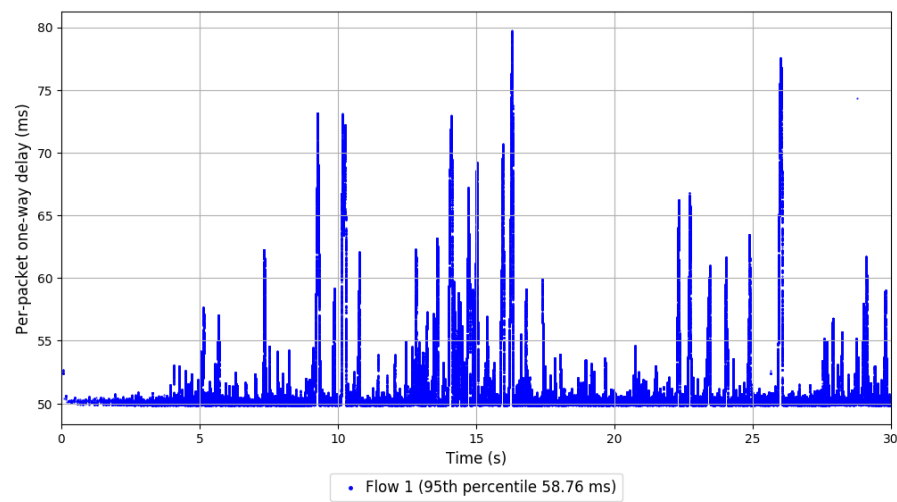
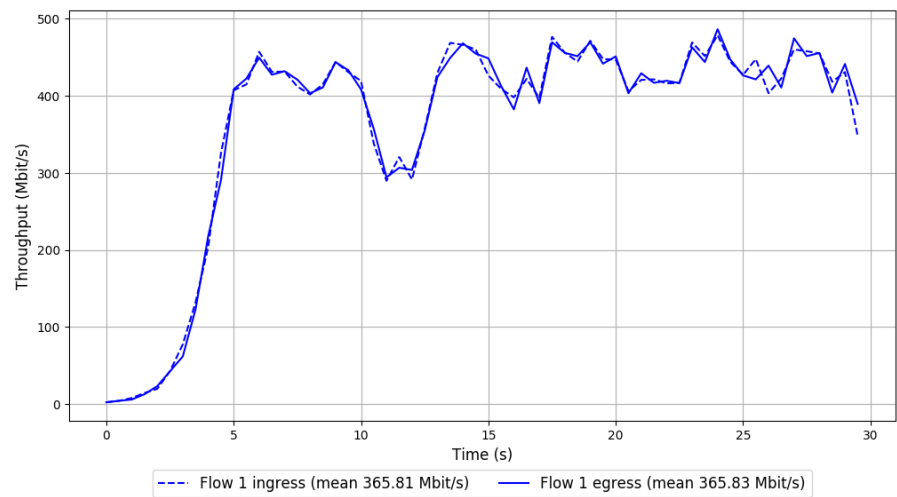
-- Flow 1:

Average throughput: 365.83 Mbit/s

95th percentile per-packet one-way delay: 58.757 ms

Loss rate: 0.00%

Run 1: Report of CalibratedKoho — Data Link



Run 2: Statistics of CalibratedKoho

Start at: 2017-09-18 04:32:28

End at: 2017-09-18 04:32:58

Below is generated by plot.py at 2017-09-18 07:37:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 350.24 Mbit/s

95th percentile per-packet one-way delay: 52.030 ms

Loss rate: 0.00%

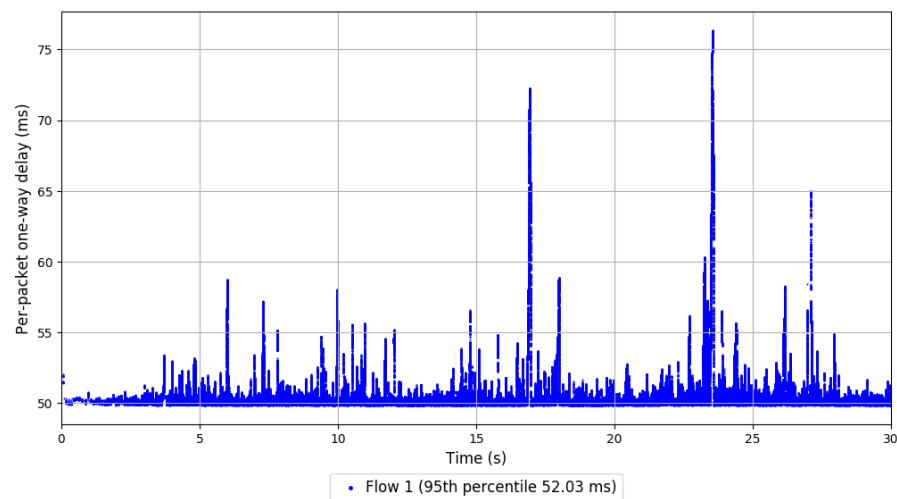
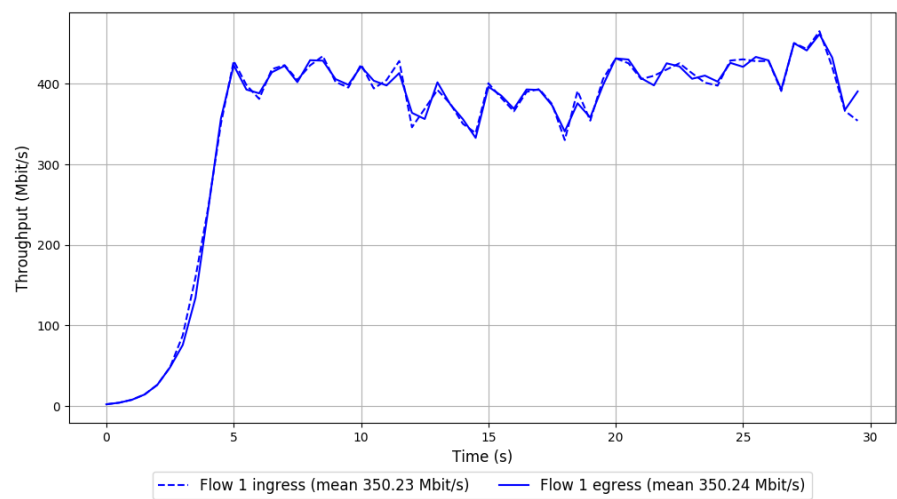
-- Flow 1:

Average throughput: 350.24 Mbit/s

95th percentile per-packet one-way delay: 52.030 ms

Loss rate: 0.00%

Run 2: Report of CalibratedKoho — Data Link



Run 3: Statistics of CalibratedKoho

Start at: 2017-09-18 04:43:36

End at: 2017-09-18 04:44:06

Below is generated by plot.py at 2017-09-18 07:38:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 378.41 Mbit/s

95th percentile per-packet one-way delay: 61.298 ms

Loss rate: 0.00%

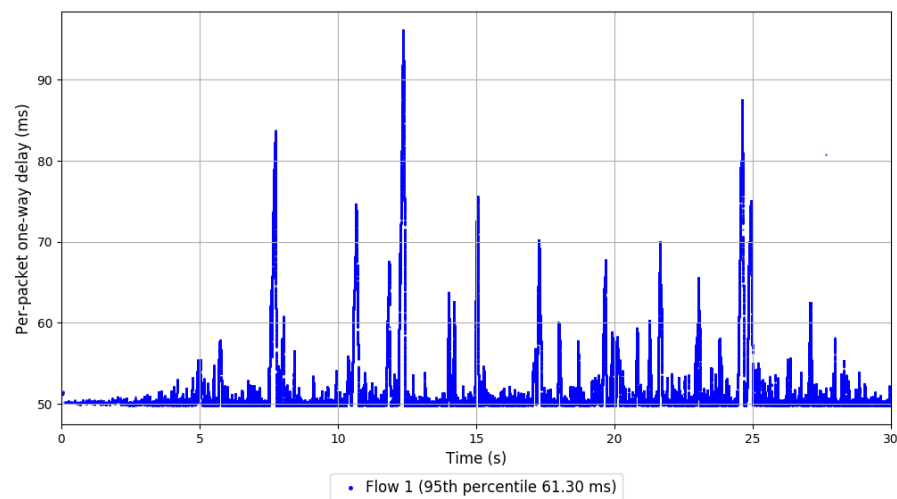
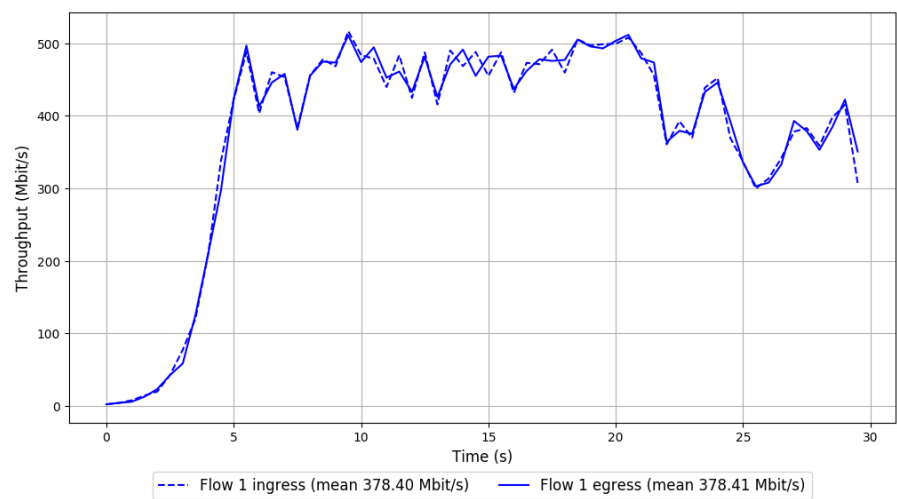
-- Flow 1:

Average throughput: 378.41 Mbit/s

95th percentile per-packet one-way delay: 61.298 ms

Loss rate: 0.00%

Run 3: Report of CalibratedKoho — Data Link



Run 4: Statistics of CalibratedKoho

Start at: 2017-09-18 04:55:07

End at: 2017-09-18 04:55:37

Below is generated by plot.py at 2017-09-18 07:38:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 423.24 Mbit/s

95th percentile per-packet one-way delay: 69.443 ms

Loss rate: 0.01%

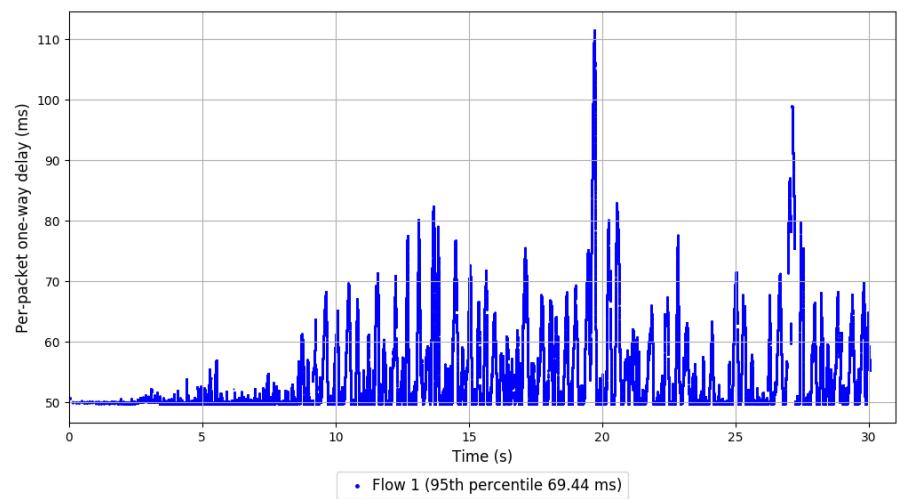
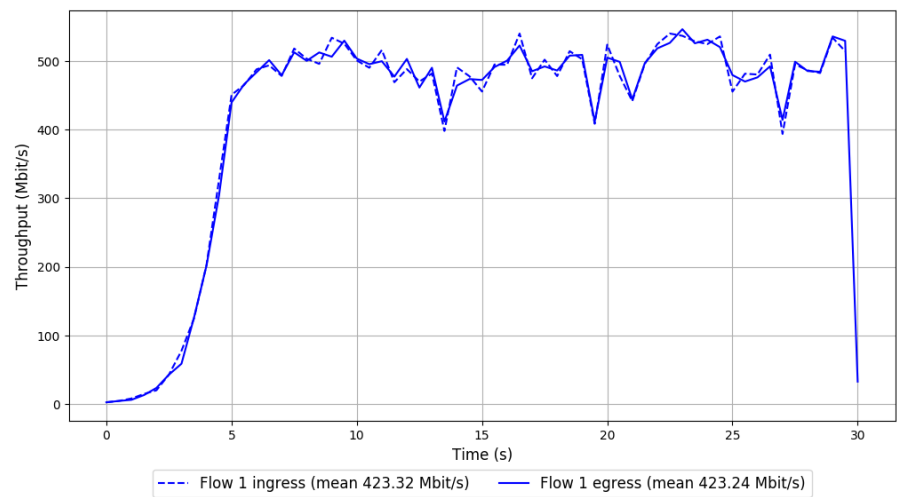
-- Flow 1:

Average throughput: 423.24 Mbit/s

95th percentile per-packet one-way delay: 69.443 ms

Loss rate: 0.01%

Run 4: Report of CalibratedKoho — Data Link



Run 5: Statistics of CalibratedKoho

Start at: 2017-09-18 05:06:27

End at: 2017-09-18 05:06:57

Below is generated by plot.py at 2017-09-18 07:38:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 398.18 Mbit/s

95th percentile per-packet one-way delay: 64.801 ms

Loss rate: 0.07%

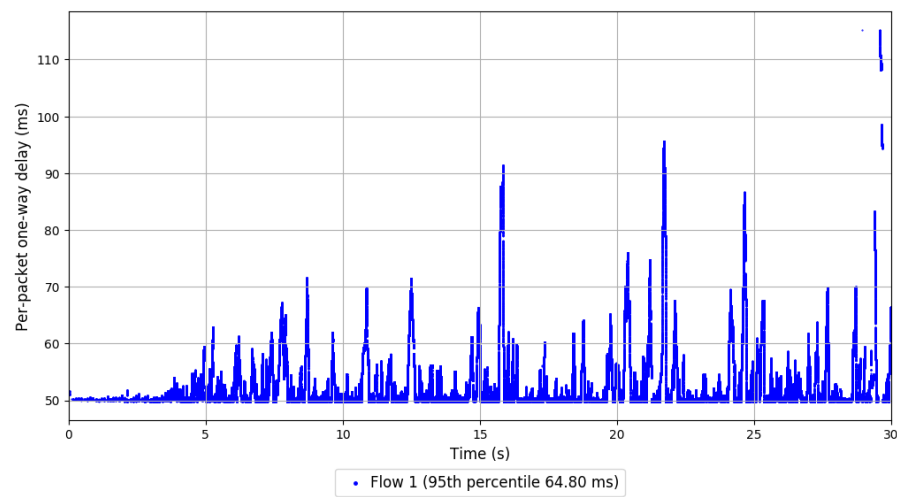
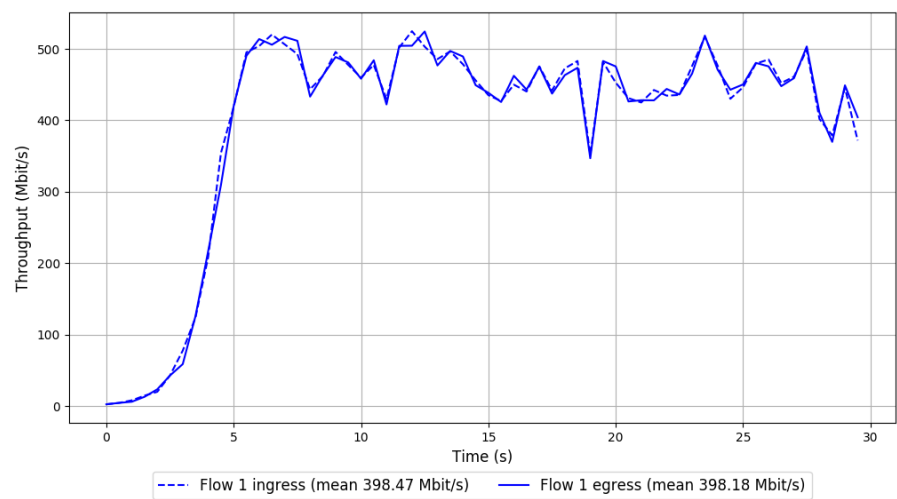
-- Flow 1:

Average throughput: 398.18 Mbit/s

95th percentile per-packet one-way delay: 64.801 ms

Loss rate: 0.07%

Run 5: Report of CalibratedKoho — Data Link



Run 6: Statistics of CalibratedKoho

Start at: 2017-09-18 05:18:13

End at: 2017-09-18 05:18:43

Below is generated by plot.py at 2017-09-18 07:38:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 385.24 Mbit/s

95th percentile per-packet one-way delay: 63.210 ms

Loss rate: 0.00%

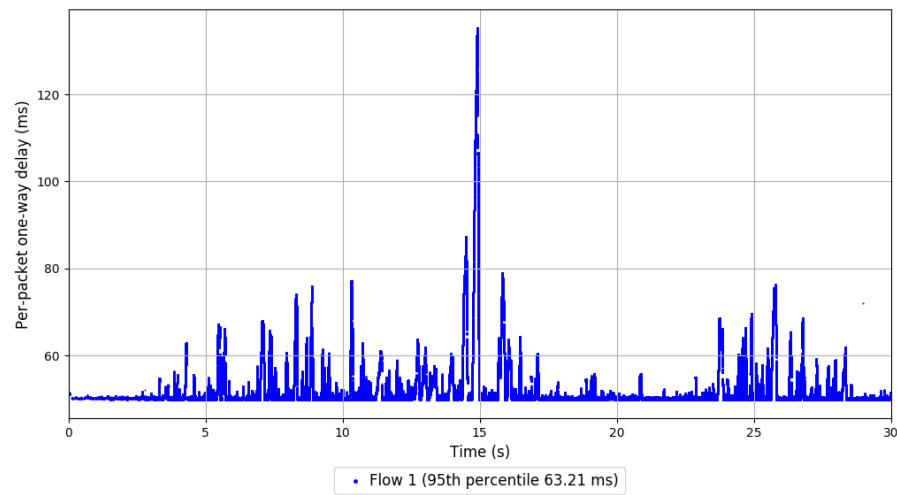
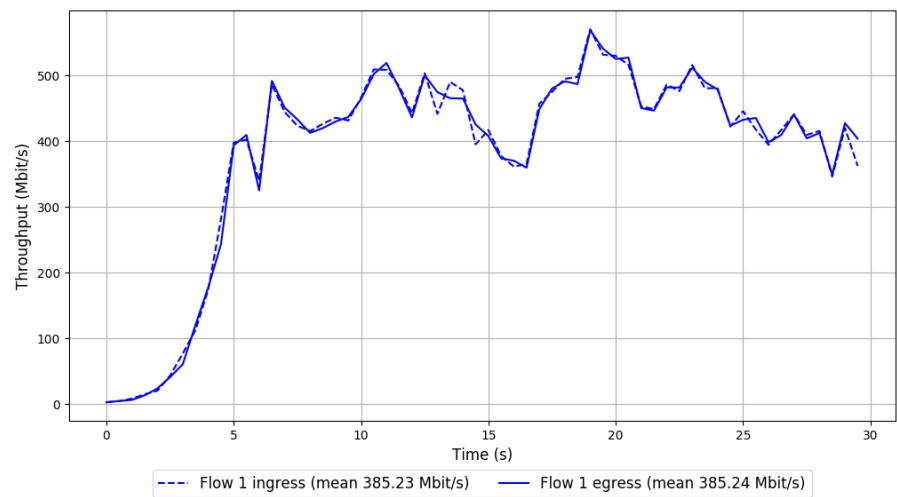
-- Flow 1:

Average throughput: 385.24 Mbit/s

95th percentile per-packet one-way delay: 63.210 ms

Loss rate: 0.00%

Run 6: Report of CalibratedKoho — Data Link



Run 7: Statistics of CalibratedKoho

Start at: 2017-09-18 05:29:28

End at: 2017-09-18 05:29:58

Below is generated by plot.py at 2017-09-18 07:40:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 408.73 Mbit/s

95th percentile per-packet one-way delay: 64.293 ms

Loss rate: 0.00%

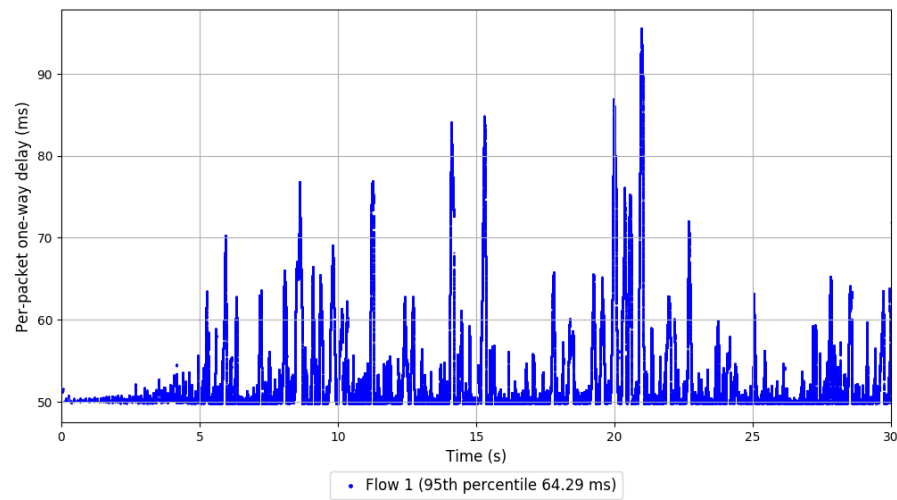
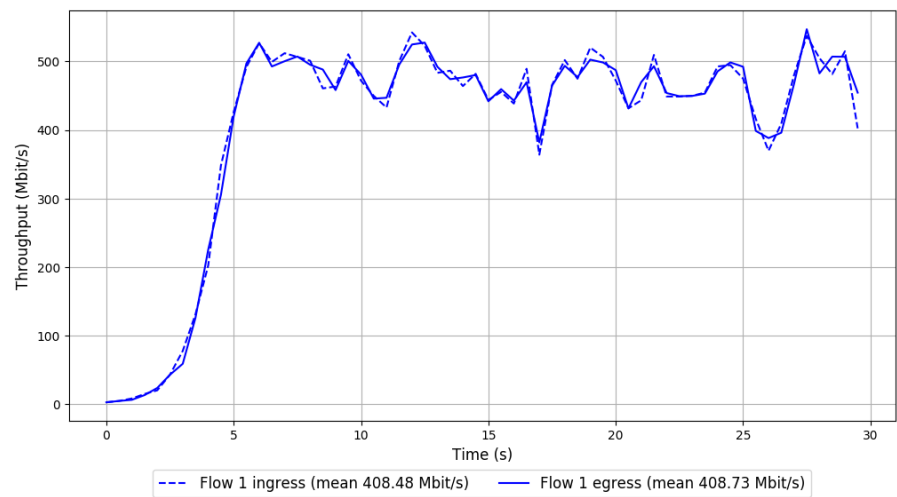
-- Flow 1:

Average throughput: 408.73 Mbit/s

95th percentile per-packet one-way delay: 64.293 ms

Loss rate: 0.00%

Run 7: Report of CalibratedKoho — Data Link



Run 8: Statistics of CalibratedKoho

Start at: 2017-09-18 05:40:48

End at: 2017-09-18 05:41:18

Below is generated by plot.py at 2017-09-18 07:40:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 396.60 Mbit/s

95th percentile per-packet one-way delay: 59.232 ms

Loss rate: 0.00%

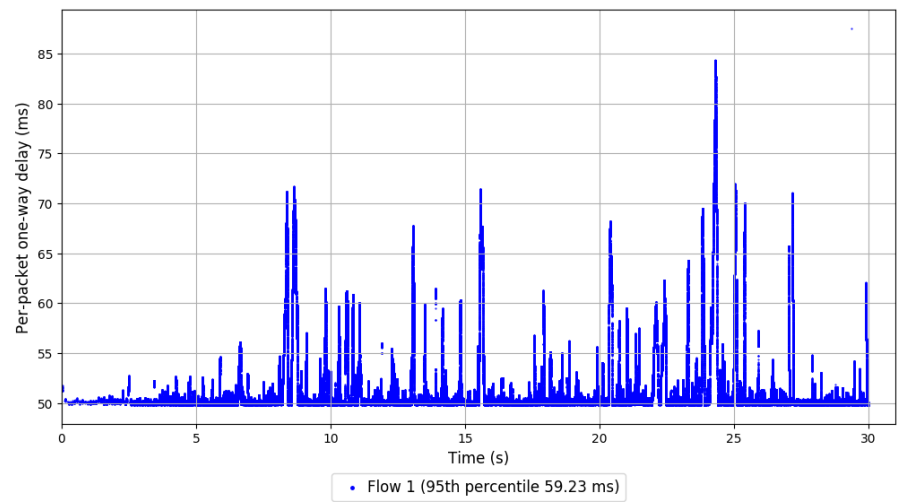
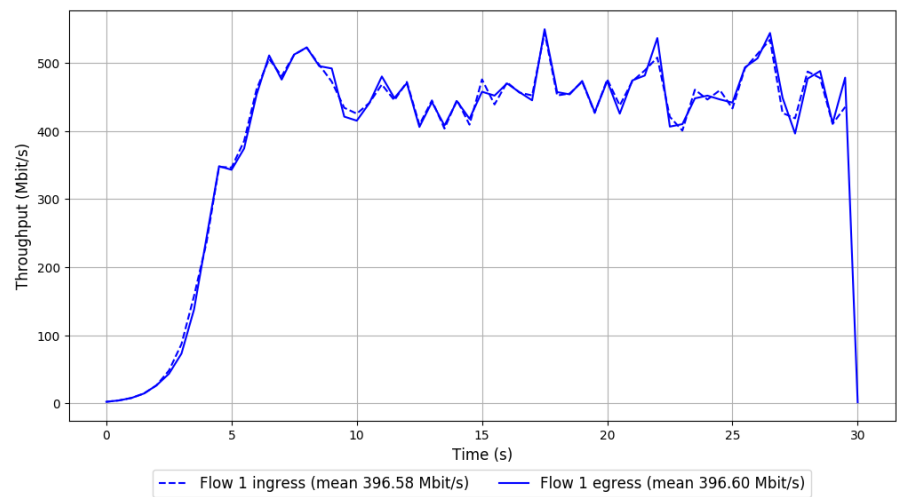
-- Flow 1:

Average throughput: 396.60 Mbit/s

95th percentile per-packet one-way delay: 59.232 ms

Loss rate: 0.00%

Run 8: Report of CalibratedKoho — Data Link



Run 9: Statistics of CalibratedKoho

Start at: 2017-09-18 05:52:11

End at: 2017-09-18 05:52:41

Below is generated by plot.py at 2017-09-18 07:44:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 417.71 Mbit/s

95th percentile per-packet one-way delay: 61.575 ms

Loss rate: 0.00%

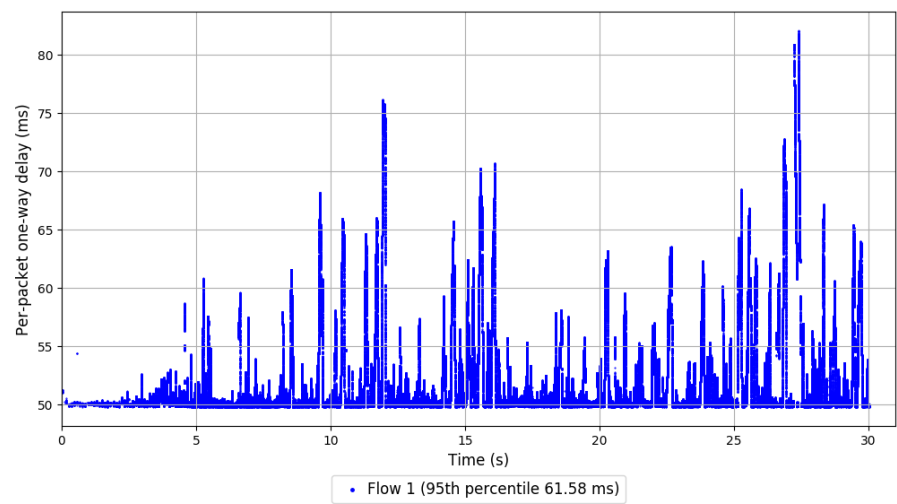
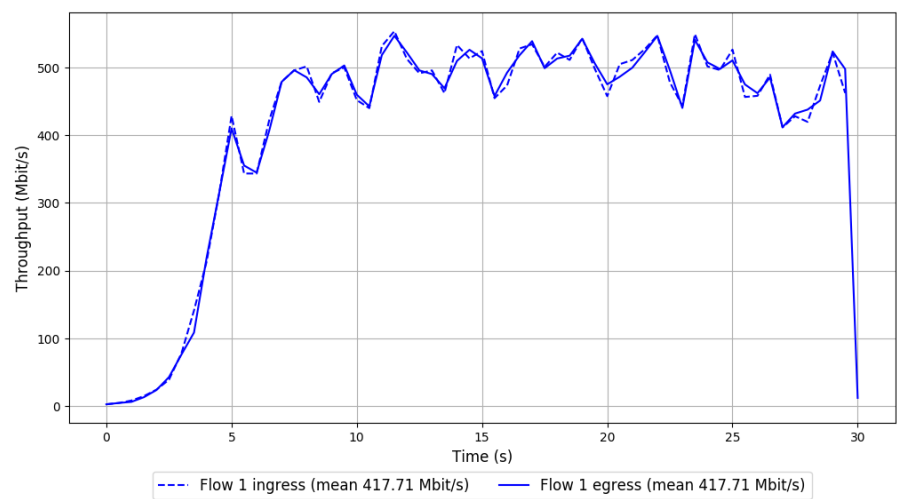
-- Flow 1:

Average throughput: 417.71 Mbit/s

95th percentile per-packet one-way delay: 61.575 ms

Loss rate: 0.00%

Run 9: Report of CalibratedKoho — Data Link



Run 10: Statistics of CalibratedKoho

Start at: 2017-09-18 06:03:31

End at: 2017-09-18 06:04:01

Below is generated by plot.py at 2017-09-18 07:45:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 426.98 Mbit/s

95th percentile per-packet one-way delay: 64.695 ms

Loss rate: 0.04%

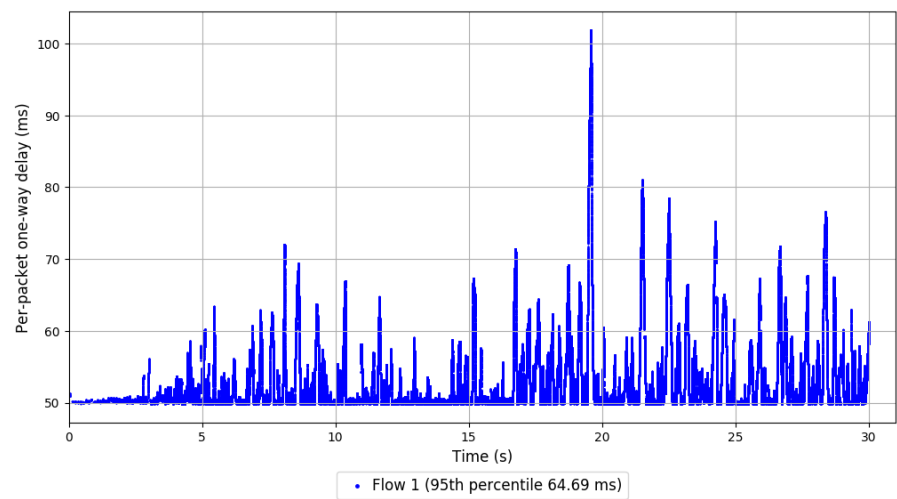
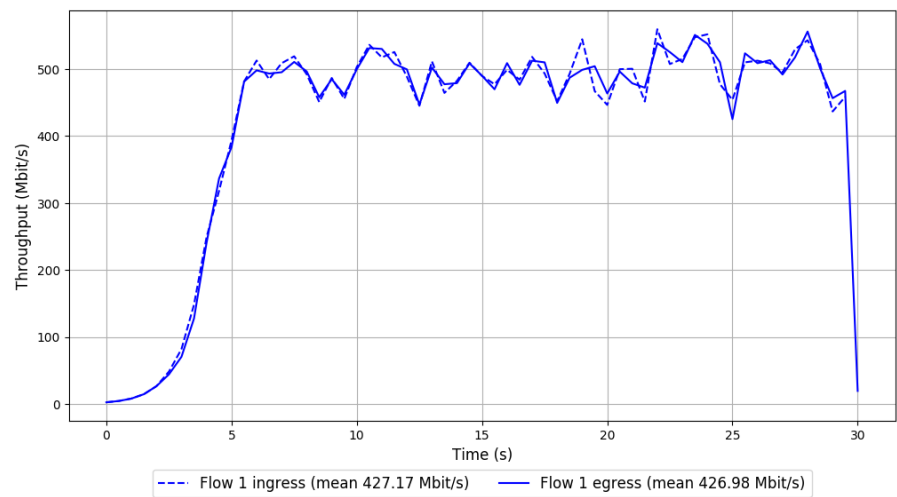
-- Flow 1:

Average throughput: 426.98 Mbit/s

95th percentile per-packet one-way delay: 64.695 ms

Loss rate: 0.04%

Run 10: Report of CalibratedKoho — Data Link



Run 1: Statistics of Copa

Start at: 2017-09-18 04:27:36

End at: 2017-09-18 04:28:06

Below is generated by plot.py at 2017-09-18 07:45:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.66 Mbit/s

95th percentile per-packet one-way delay: 50.039 ms

Loss rate: 0.00%

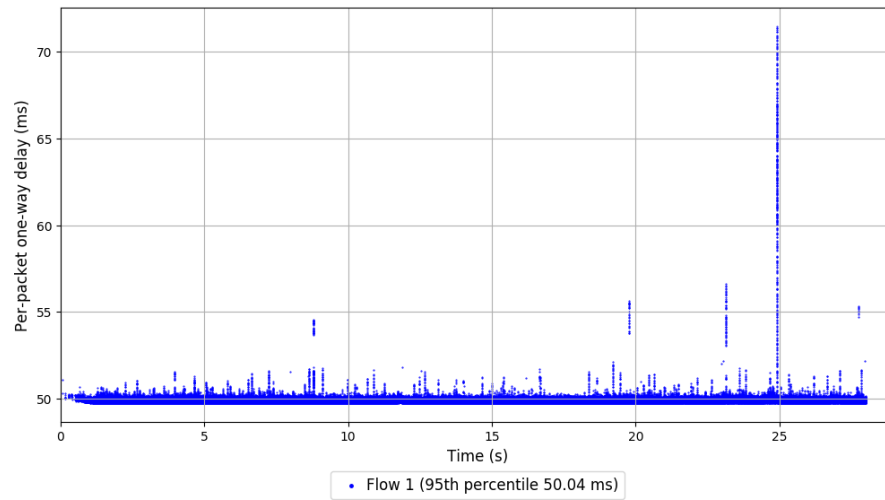
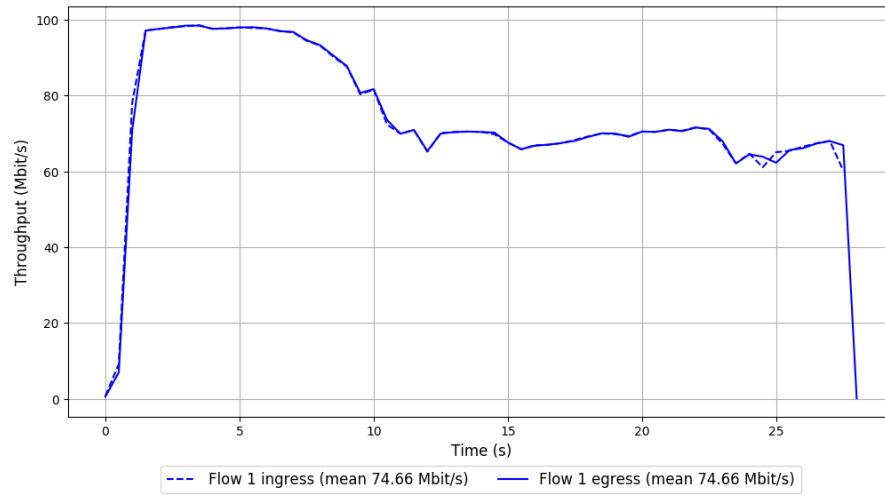
-- Flow 1:

Average throughput: 74.66 Mbit/s

95th percentile per-packet one-way delay: 50.039 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-09-18 04:38:40

End at: 2017-09-18 04:39:10

Below is generated by plot.py at 2017-09-18 07:45:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.17 Mbit/s

95th percentile per-packet one-way delay: 52.837 ms

Loss rate: 0.00%

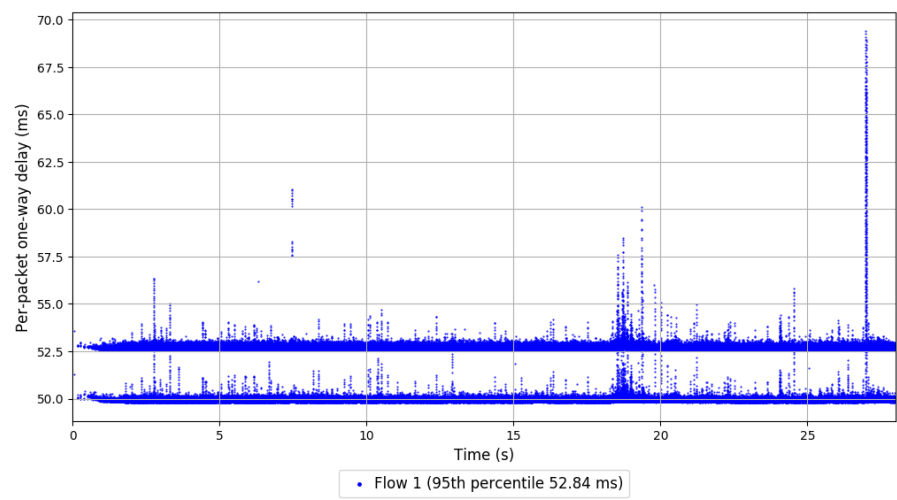
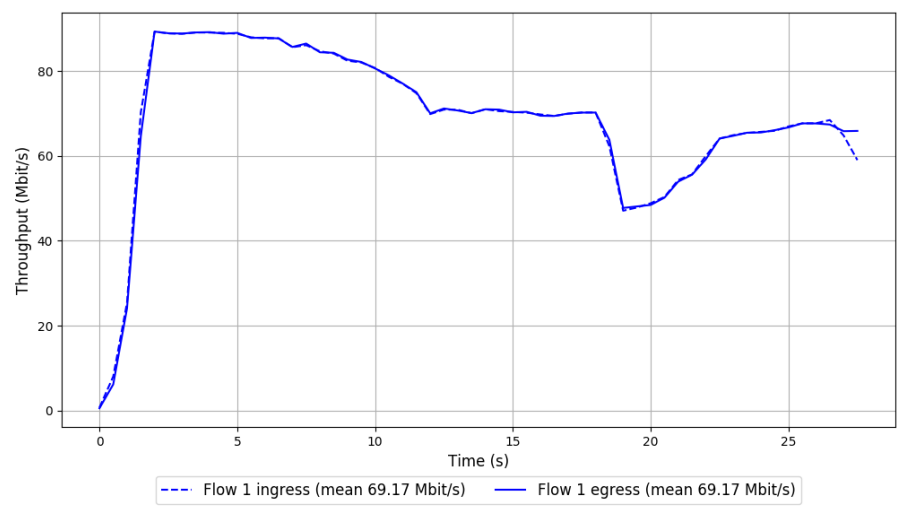
-- Flow 1:

Average throughput: 69.17 Mbit/s

95th percentile per-packet one-way delay: 52.837 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-09-18 04:50:18

End at: 2017-09-18 04:50:48

Below is generated by plot.py at 2017-09-18 07:45:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.94 Mbit/s

95th percentile per-packet one-way delay: 52.758 ms

Loss rate: 0.00%

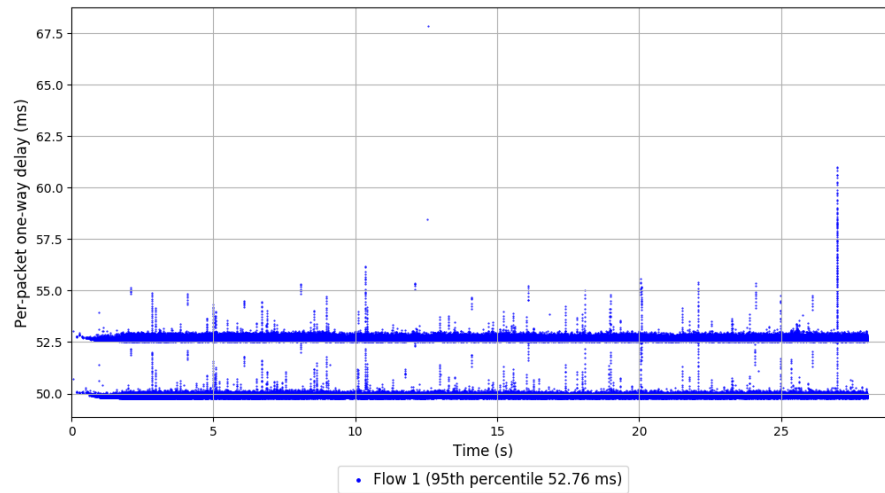
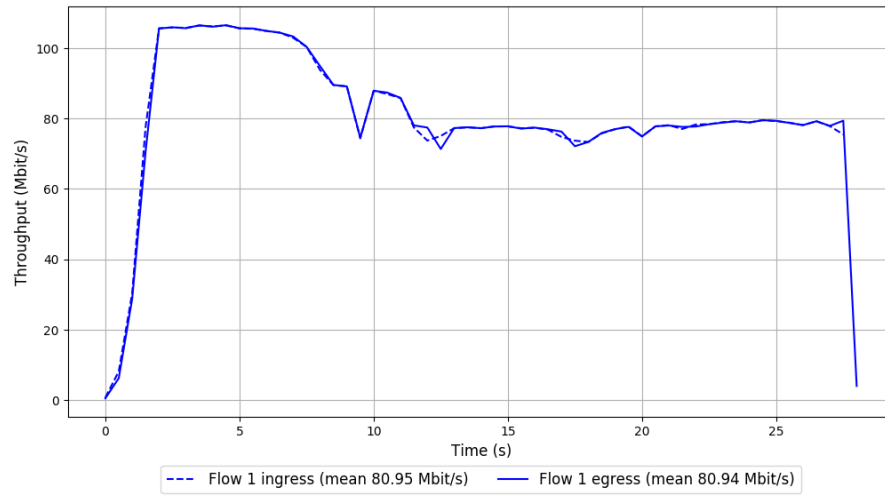
-- Flow 1:

Average throughput: 80.94 Mbit/s

95th percentile per-packet one-way delay: 52.758 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-09-18 05:01:31

End at: 2017-09-18 05:02:01

Below is generated by plot.py at 2017-09-18 07:45:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.98 Mbit/s

95th percentile per-packet one-way delay: 49.962 ms

Loss rate: 0.00%

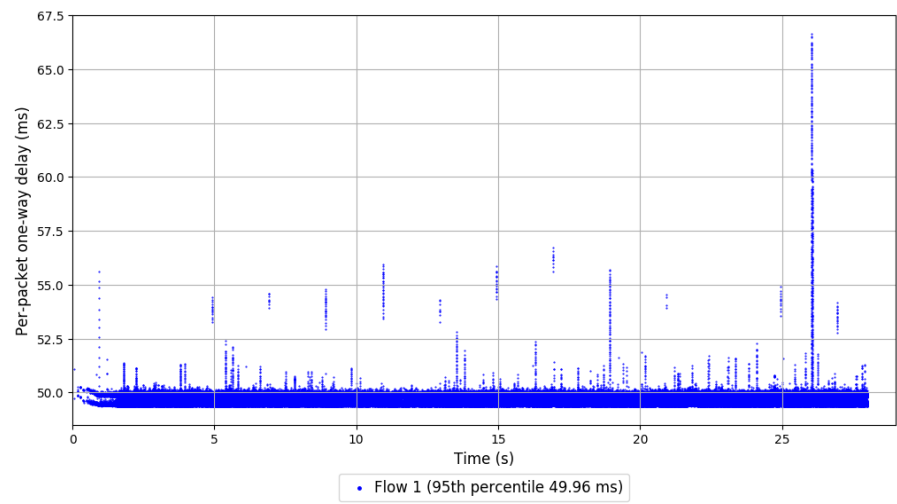
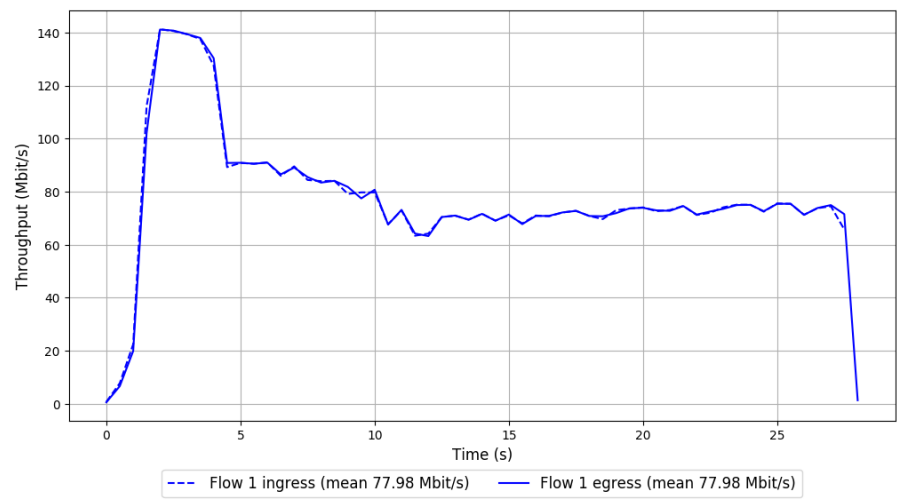
-- Flow 1:

Average throughput: 77.98 Mbit/s

95th percentile per-packet one-way delay: 49.962 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-09-18 05:13:17

End at: 2017-09-18 05:13:47

Below is generated by plot.py at 2017-09-18 07:45:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.90 Mbit/s

95th percentile per-packet one-way delay: 52.722 ms

Loss rate: 0.00%

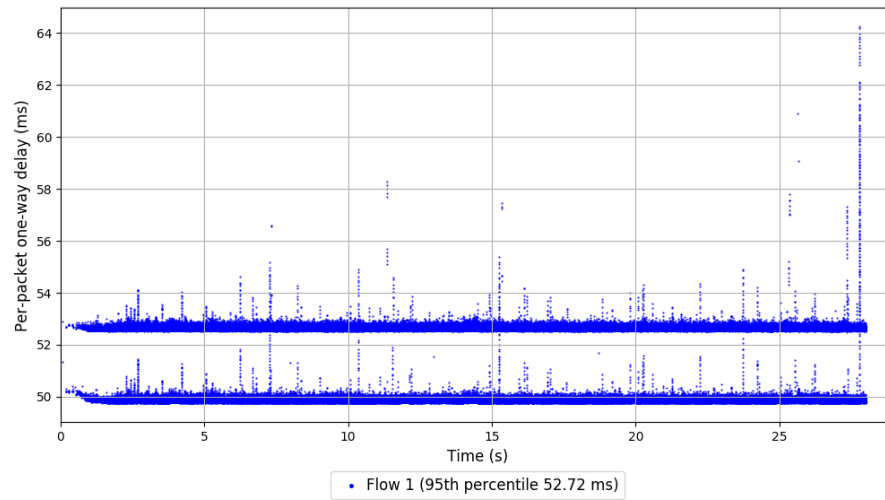
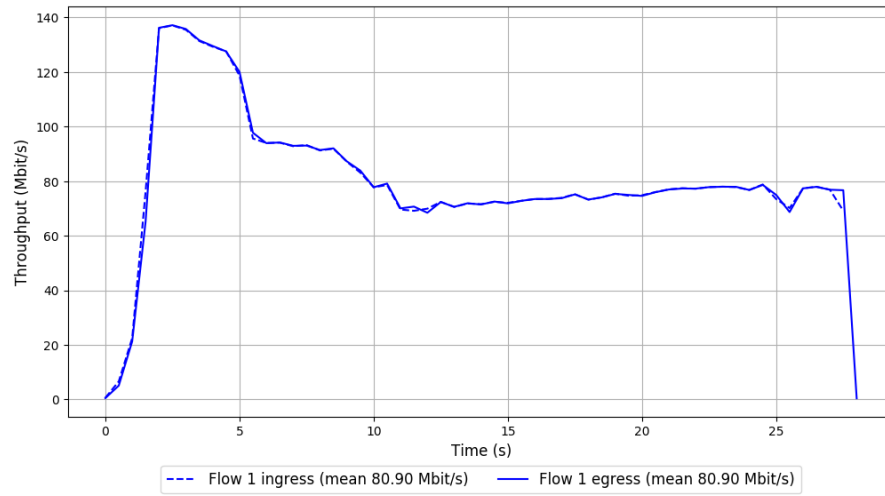
-- Flow 1:

Average throughput: 80.90 Mbit/s

95th percentile per-packet one-way delay: 52.722 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-09-18 05:24:34

End at: 2017-09-18 05:25:04

Below is generated by plot.py at 2017-09-18 07:45:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.88 Mbit/s

95th percentile per-packet one-way delay: 49.998 ms

Loss rate: 0.00%

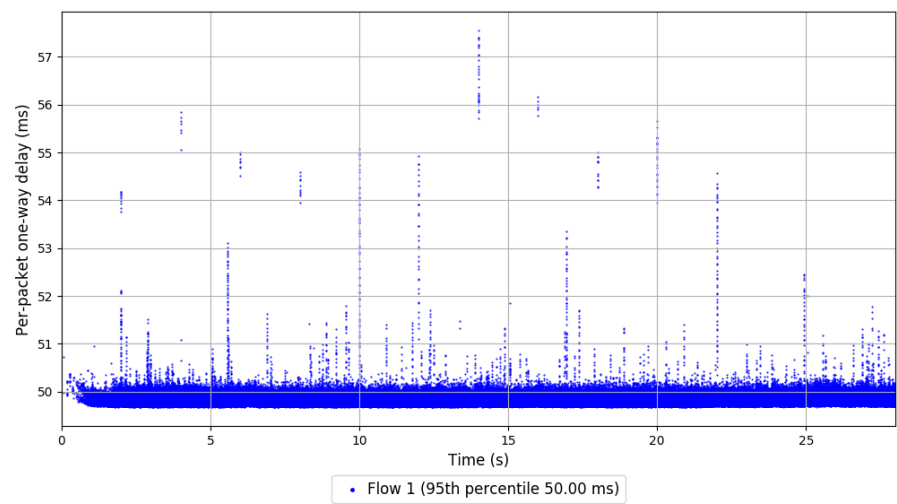
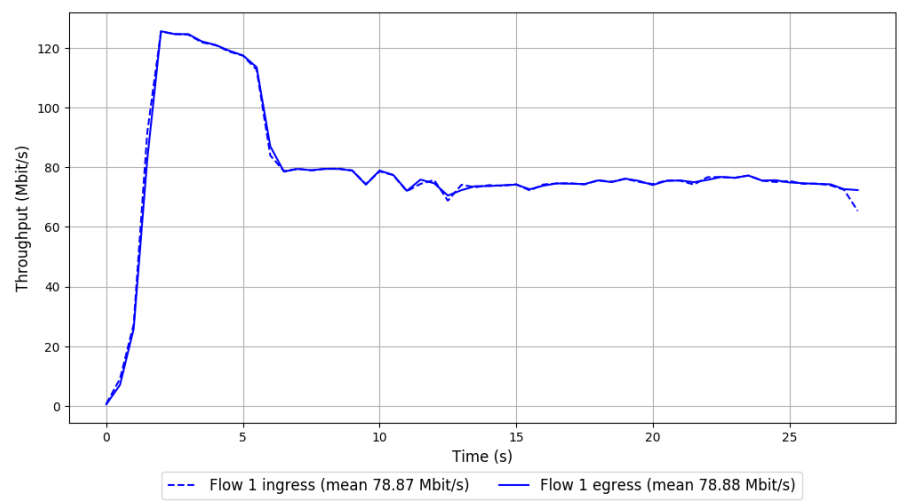
-- Flow 1:

Average throughput: 78.88 Mbit/s

95th percentile per-packet one-way delay: 49.998 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-09-18 05:35:50

End at: 2017-09-18 05:36:20

Below is generated by plot.py at 2017-09-18 07:45:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.19 Mbit/s

95th percentile per-packet one-way delay: 50.018 ms

Loss rate: 0.00%

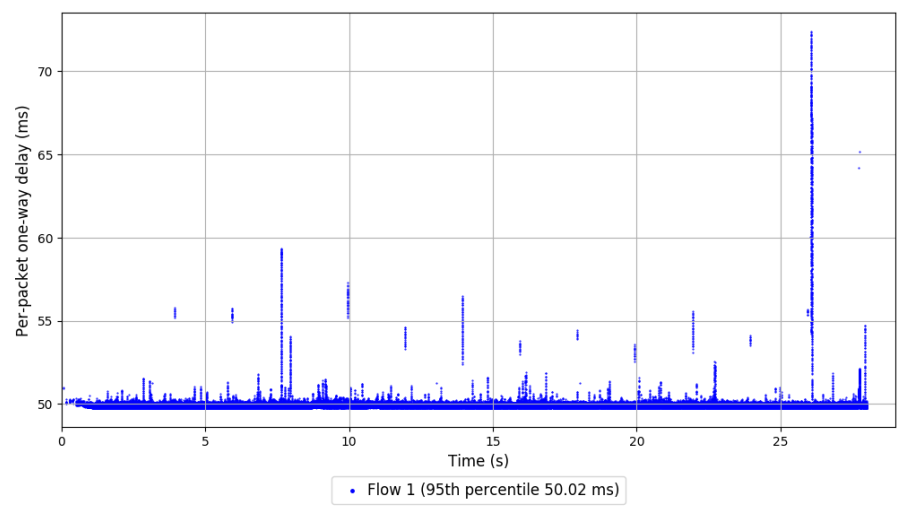
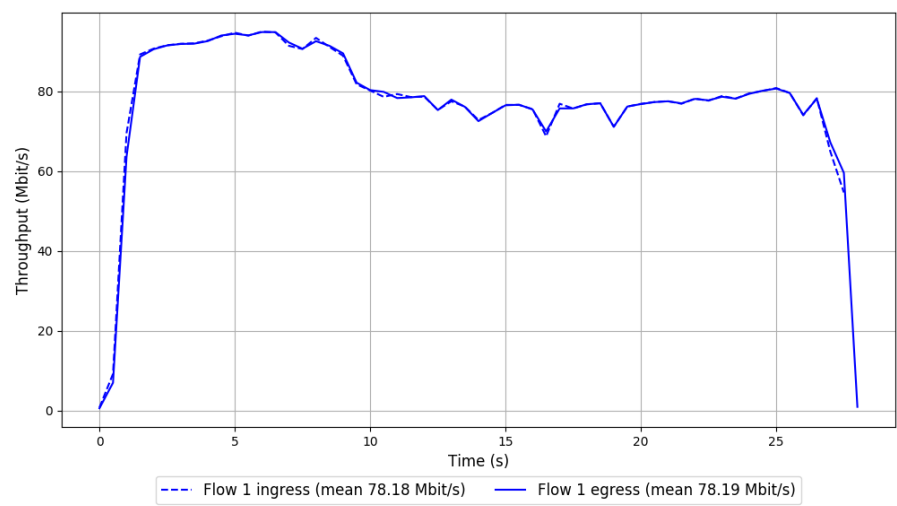
-- Flow 1:

Average throughput: 78.19 Mbit/s

95th percentile per-packet one-way delay: 50.018 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-09-18 05:47:11

End at: 2017-09-18 05:47:41

Below is generated by plot.py at 2017-09-18 07:45:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.28 Mbit/s

95th percentile per-packet one-way delay: 50.049 ms

Loss rate: 0.00%

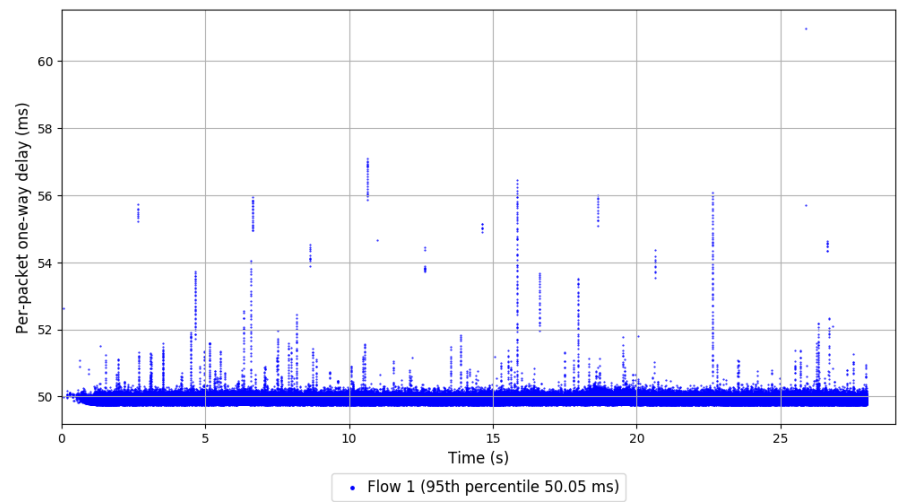
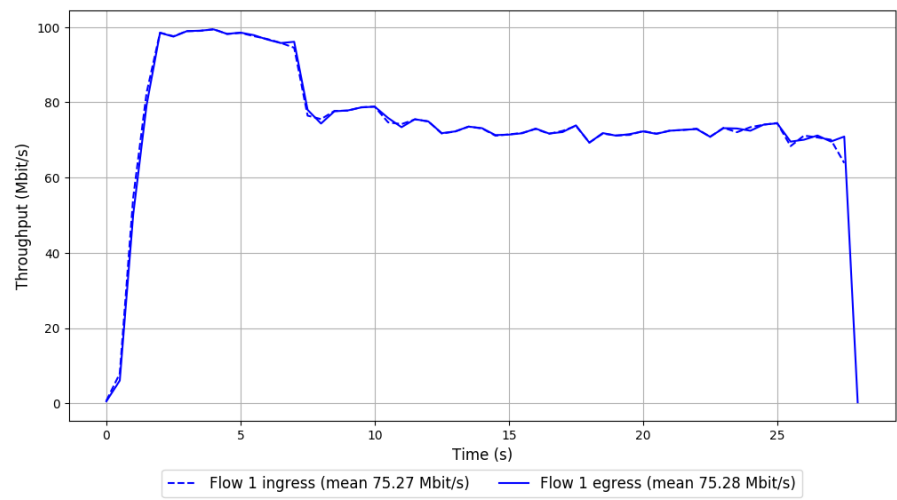
-- Flow 1:

Average throughput: 75.28 Mbit/s

95th percentile per-packet one-way delay: 50.049 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-09-18 05:58:36

End at: 2017-09-18 05:59:06

Below is generated by plot.py at 2017-09-18 07:45:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.48 Mbit/s

95th percentile per-packet one-way delay: 50.054 ms

Loss rate: 0.00%

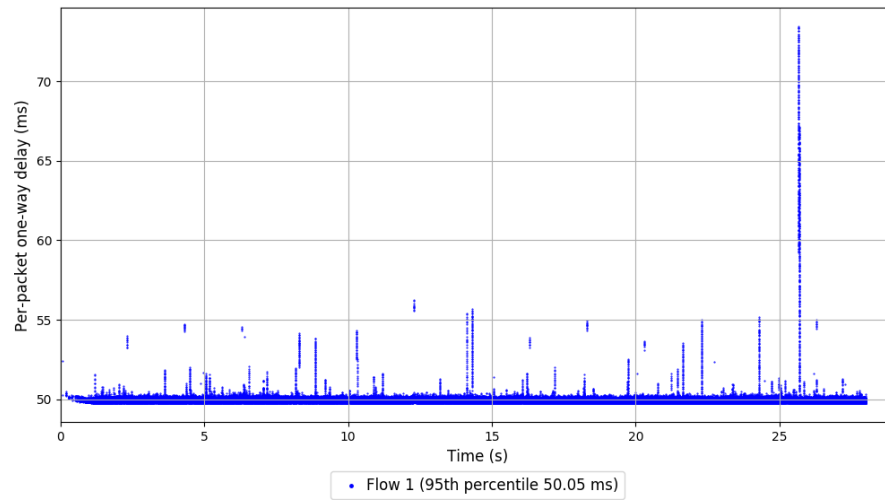
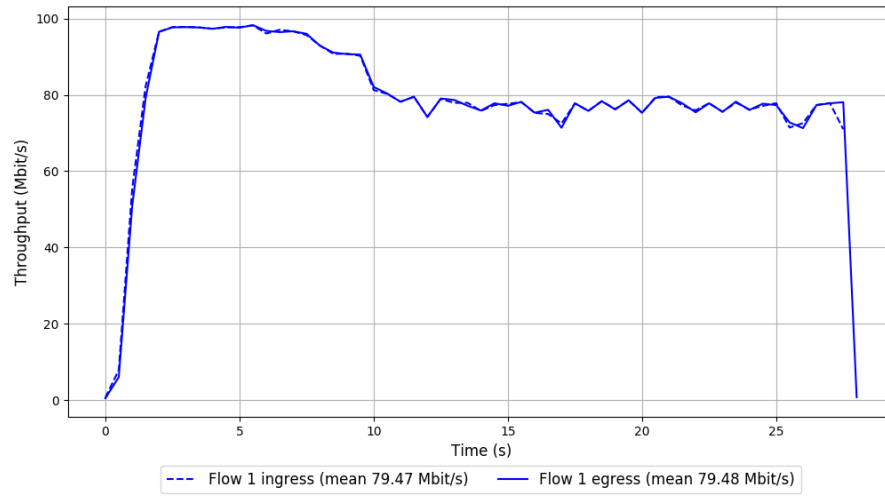
-- Flow 1:

Average throughput: 79.48 Mbit/s

95th percentile per-packet one-way delay: 50.054 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-09-18 06:09:58

End at: 2017-09-18 06:10:28

Below is generated by plot.py at 2017-09-18 07:45:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.40 Mbit/s

95th percentile per-packet one-way delay: 52.857 ms

Loss rate: 0.00%

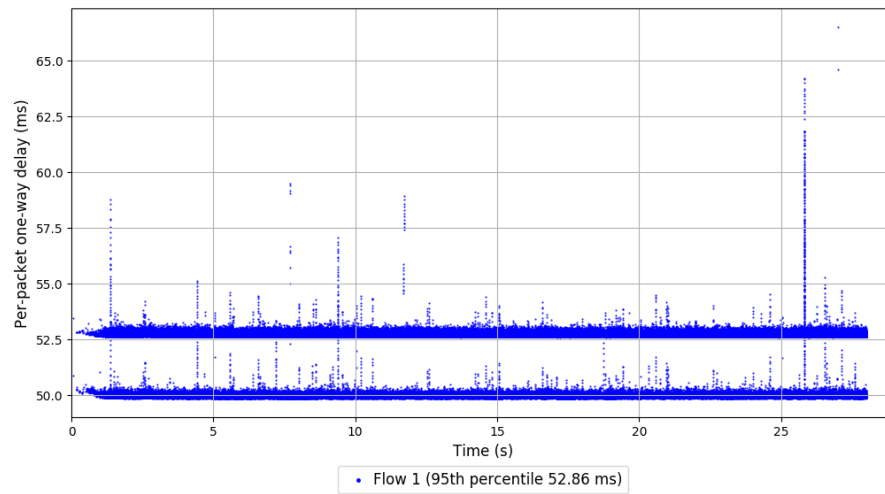
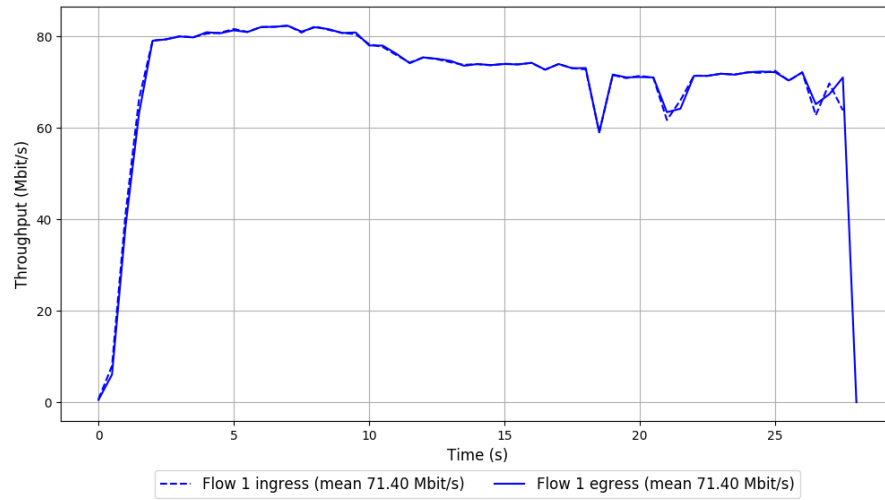
-- Flow 1:

Average throughput: 71.40 Mbit/s

95th percentile per-packet one-way delay: 52.857 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-09-18 04:31:05

End at: 2017-09-18 04:31:35

Below is generated by plot.py at 2017-09-18 07:45:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 111.92 Mbit/s

95th percentile per-packet one-way delay: 50.920 ms

Loss rate: 0.00%

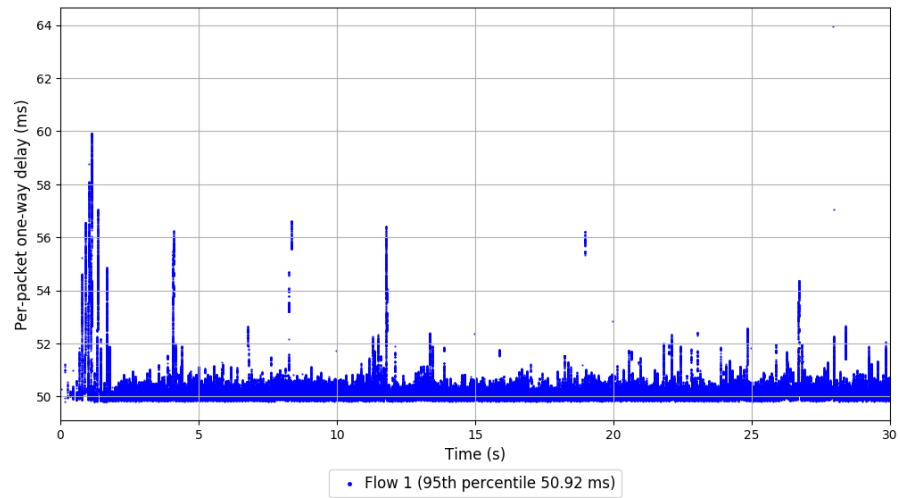
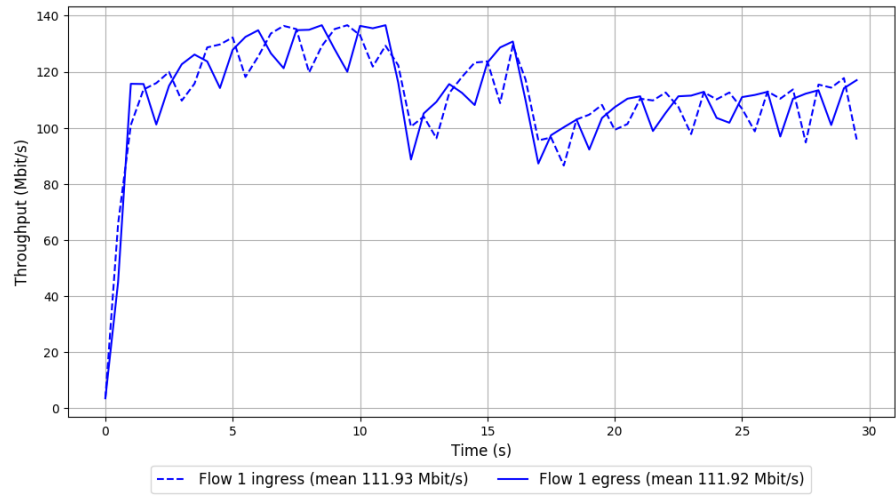
-- Flow 1:

Average throughput: 111.92 Mbit/s

95th percentile per-packet one-way delay: 50.920 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-09-18 04:42:12

End at: 2017-09-18 04:42:42

Below is generated by plot.py at 2017-09-18 07:45:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 135.51 Mbit/s

95th percentile per-packet one-way delay: 51.076 ms

Loss rate: 0.00%

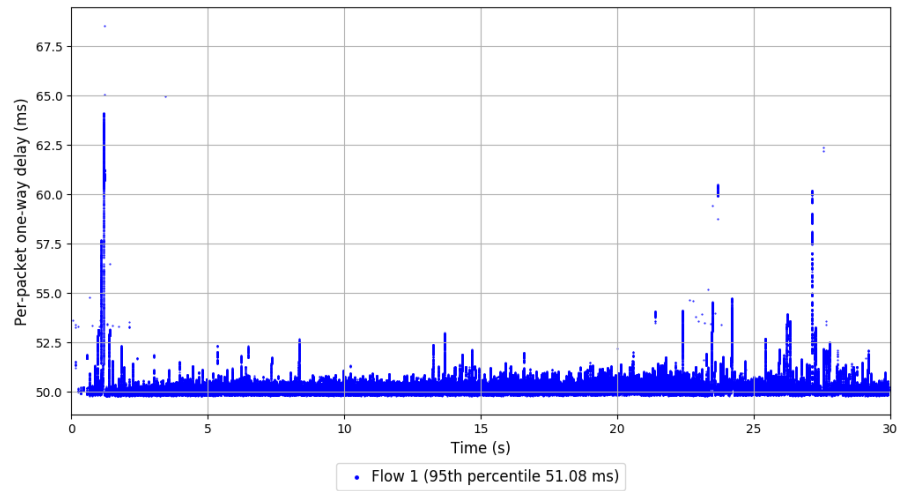
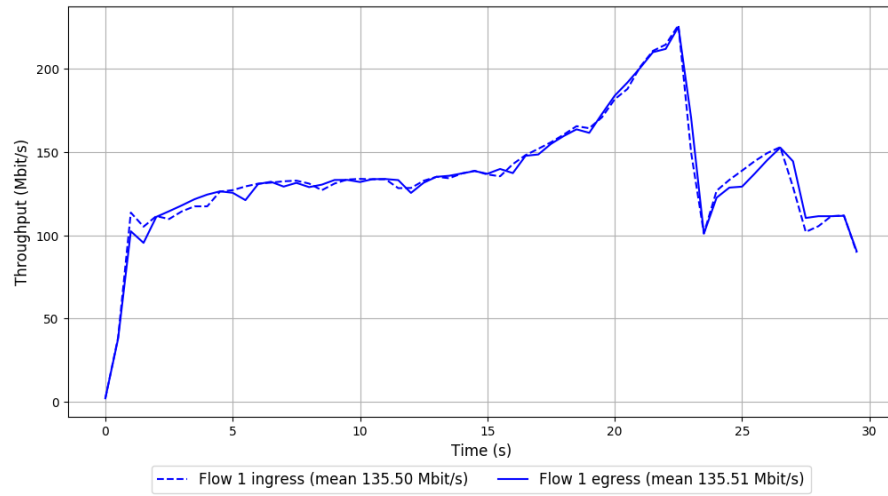
-- Flow 1:

Average throughput: 135.51 Mbit/s

95th percentile per-packet one-way delay: 51.076 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-09-18 04:53:47

End at: 2017-09-18 04:54:17

Below is generated by plot.py at 2017-09-18 07:45:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.62 Mbit/s

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

Loss rate: 0.01%

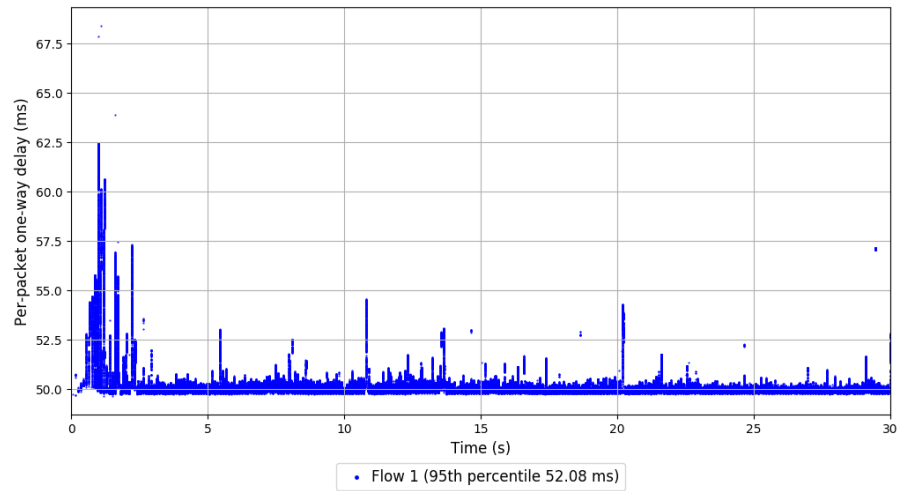
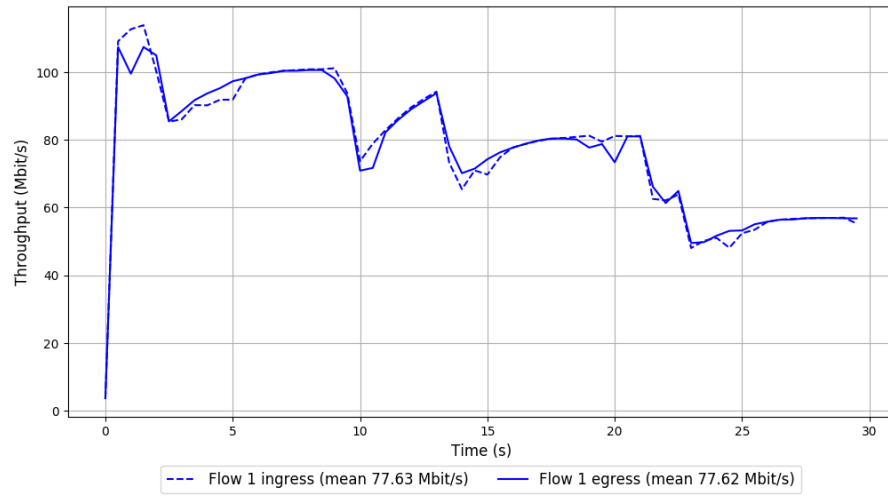
-- Flow 1:

Average throughput: 77.62 Mbit/s

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

Loss rate: 0.01%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-09-18 05:05:04

End at: 2017-09-18 05:05:34

Below is generated by plot.py at 2017-09-18 07:45:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 109.22 Mbit/s

95th percentile per-packet one-way delay: 50.875 ms

Loss rate: 0.01%

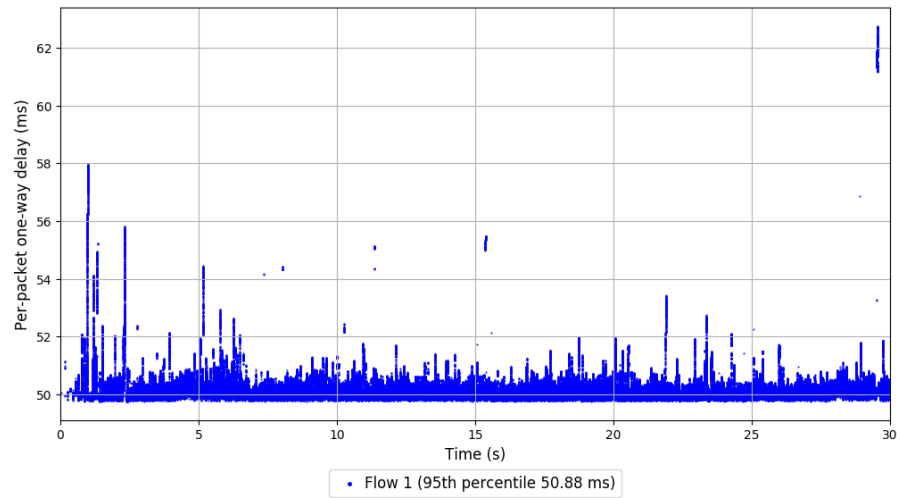
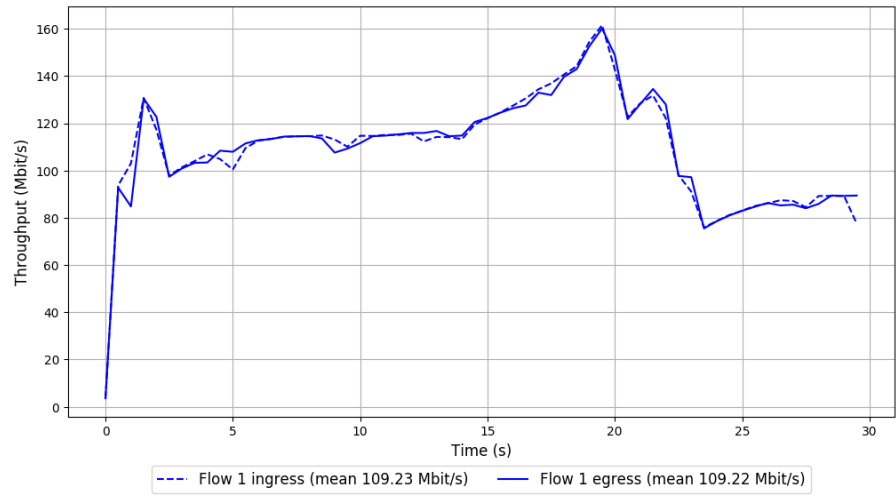
-- Flow 1:

Average throughput: 109.22 Mbit/s

95th percentile per-packet one-way delay: 50.875 ms

Loss rate: 0.01%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-09-18 05:16:47

End at: 2017-09-18 05:17:17

Below is generated by plot.py at 2017-09-18 07:46:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.89 Mbit/s

95th percentile per-packet one-way delay: 51.501 ms

Loss rate: 0.00%

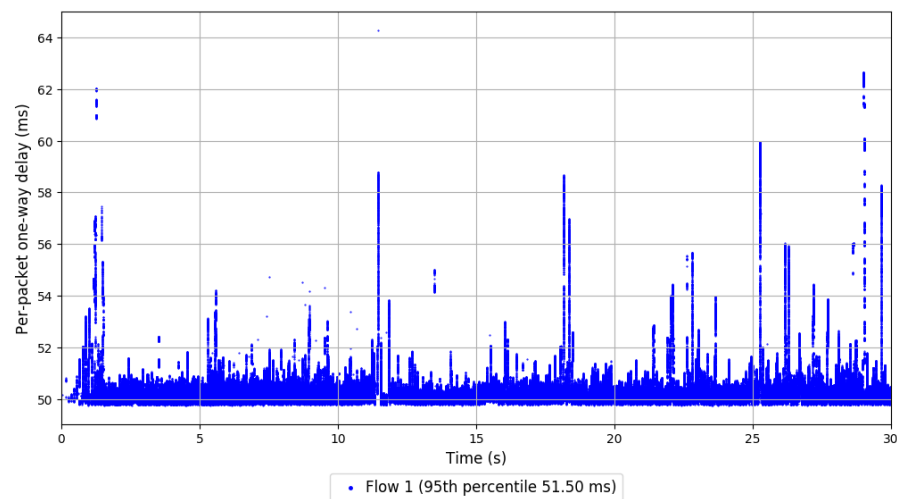
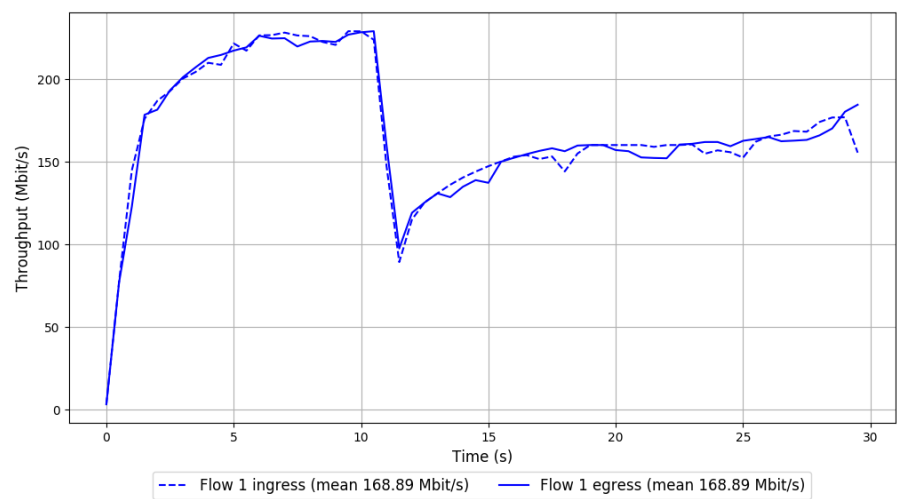
-- Flow 1:

Average throughput: 168.89 Mbit/s

95th percentile per-packet one-way delay: 51.501 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-09-18 05:28:08

End at: 2017-09-18 05:28:38

Below is generated by plot.py at 2017-09-18 07:46:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.80 Mbit/s

95th percentile per-packet one-way delay: 51.230 ms

Loss rate: 0.05%

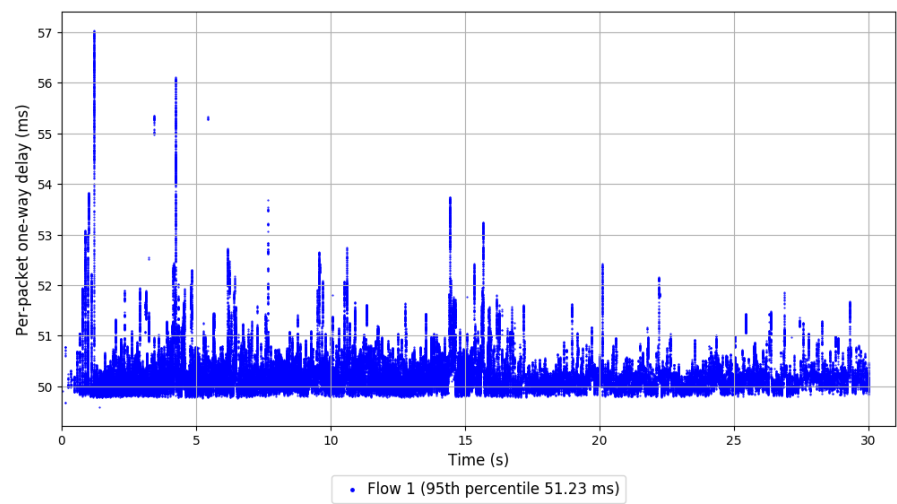
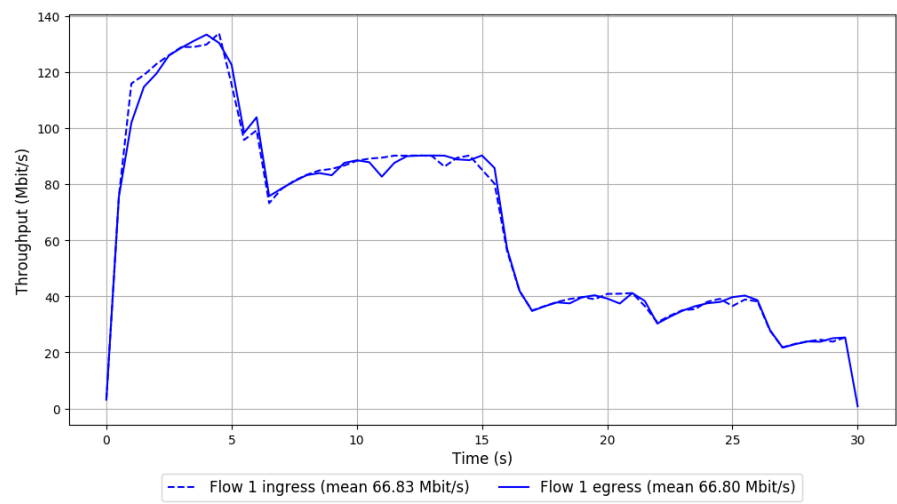
-- Flow 1:

Average throughput: 66.80 Mbit/s

95th percentile per-packet one-way delay: 51.230 ms

Loss rate: 0.05%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-09-18 05:39:25

End at: 2017-09-18 05:39:55

Below is generated by plot.py at 2017-09-18 07:46:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 118.28 Mbit/s

95th percentile per-packet one-way delay: 50.986 ms

Loss rate: 0.00%

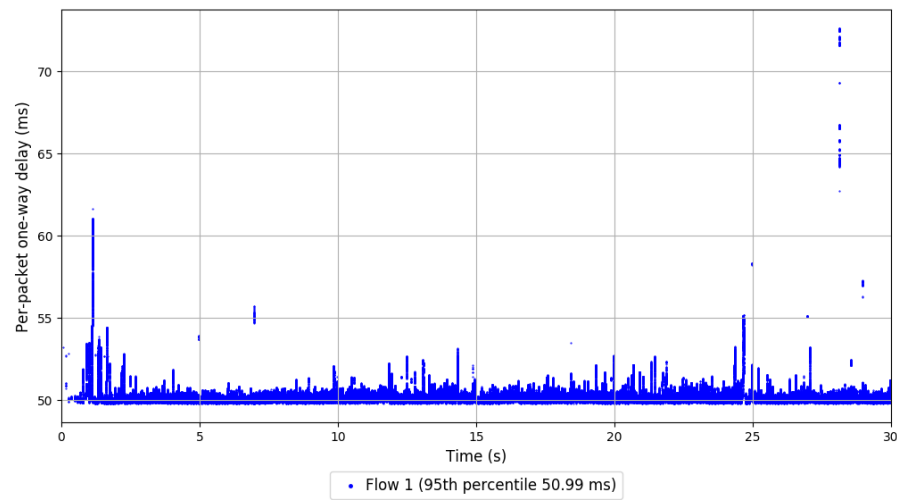
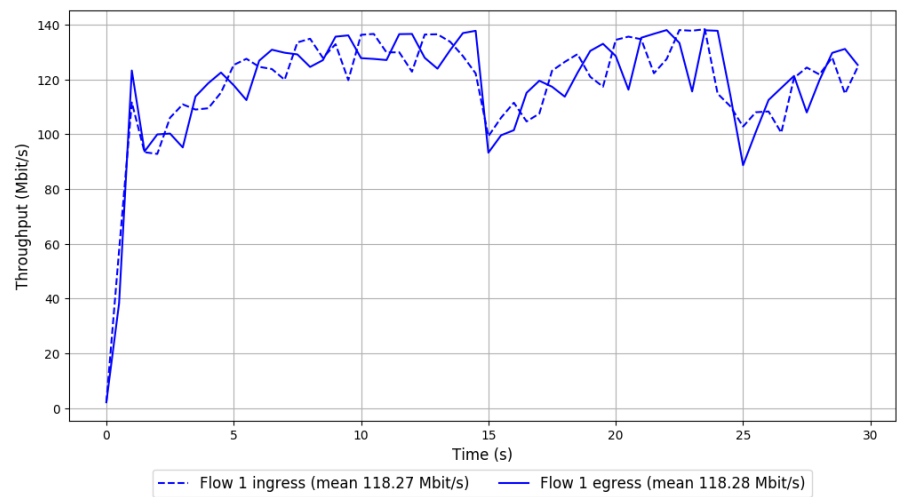
-- Flow 1:

Average throughput: 118.28 Mbit/s

95th percentile per-packet one-way delay: 50.986 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-09-18 05:50:47

End at: 2017-09-18 05:51:17

Below is generated by plot.py at 2017-09-18 07:46:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.88 Mbit/s

95th percentile per-packet one-way delay: 51.274 ms

Loss rate: 0.00%

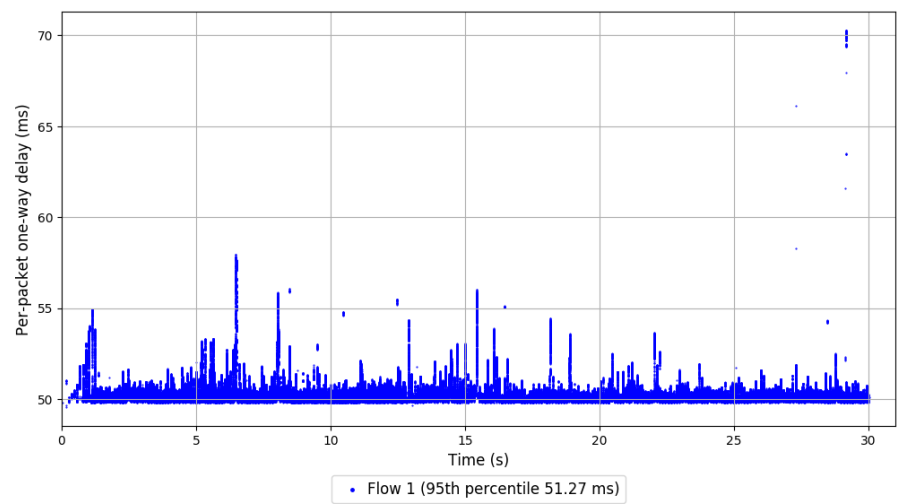
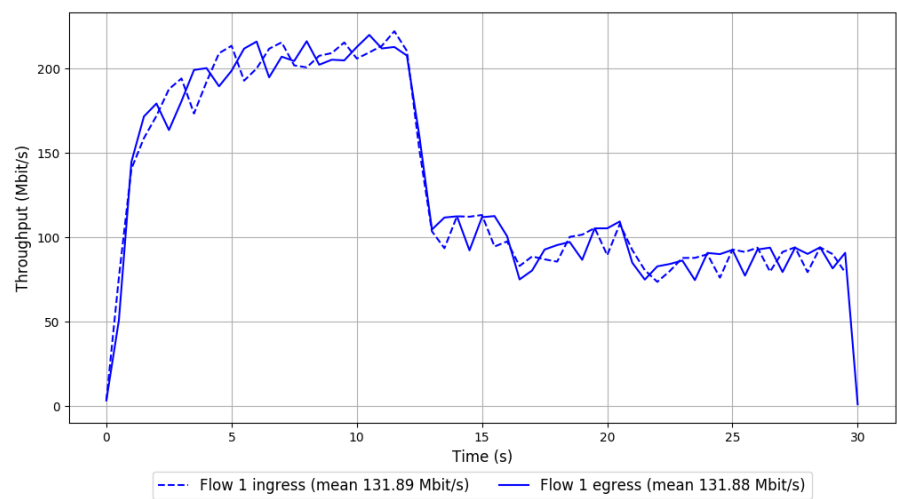
-- Flow 1:

Average throughput: 131.88 Mbit/s

95th percentile per-packet one-way delay: 51.274 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-09-18 06:02:10

End at: 2017-09-18 06:02:40

Below is generated by plot.py at 2017-09-18 07:46:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.74 Mbit/s

95th percentile per-packet one-way delay: 51.909 ms

Loss rate: 0.01%

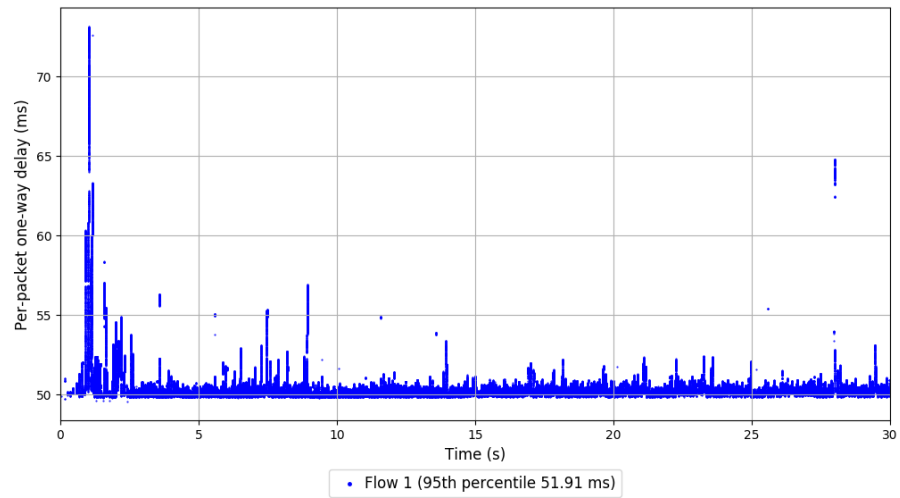
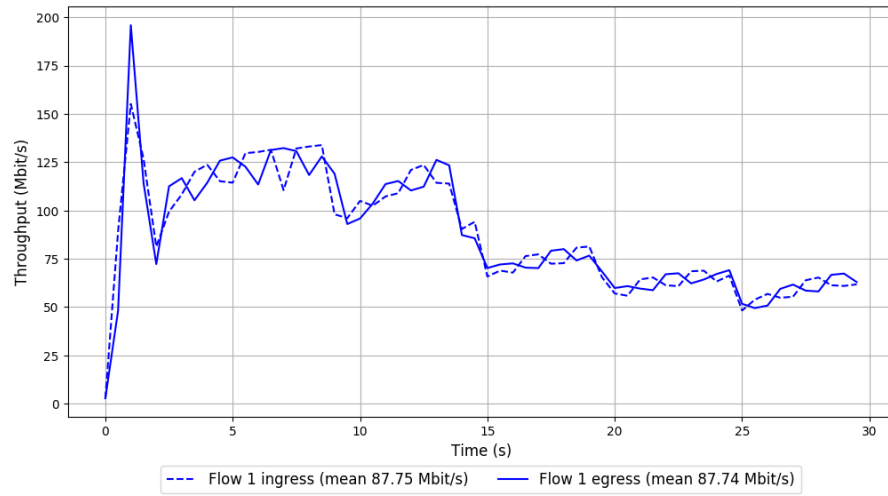
-- Flow 1:

Average throughput: 87.74 Mbit/s

95th percentile per-packet one-way delay: 51.909 ms

Loss rate: 0.01%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-09-18 06:13:35

End at: 2017-09-18 06:14:06

Below is generated by plot.py at 2017-09-18 07:46:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.31 Mbit/s

95th percentile per-packet one-way delay: 51.200 ms

Loss rate: 0.01%

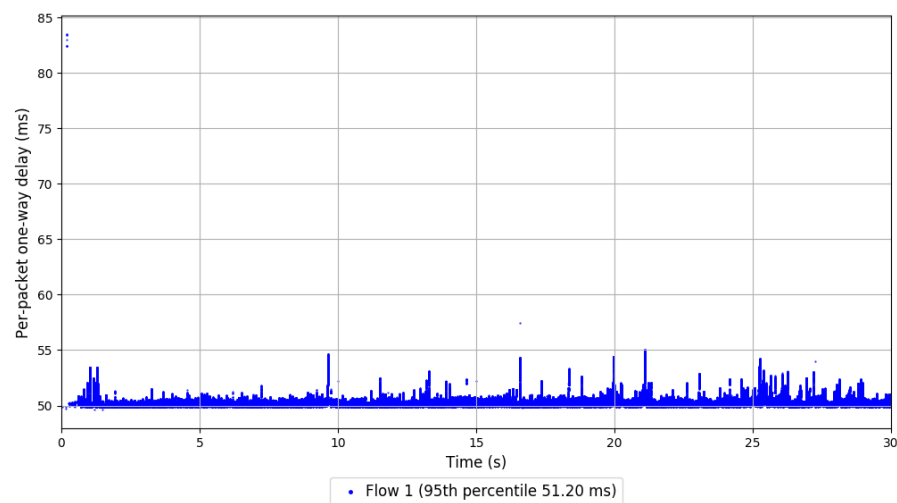
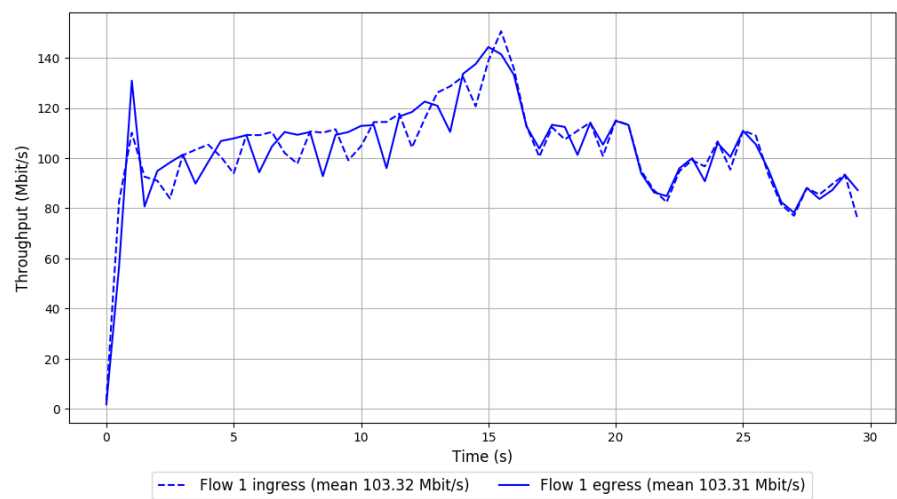
-- Flow 1:

Average throughput: 103.31 Mbit/s

95th percentile per-packet one-way delay: 51.200 ms

Loss rate: 0.01%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of Indigo

Start at: 2017-09-18 04:28:58

End at: 2017-09-18 04:29:28

Below is generated by plot.py at 2017-09-18 07:47:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 121.51 Mbit/s

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

Loss rate: 0.00%

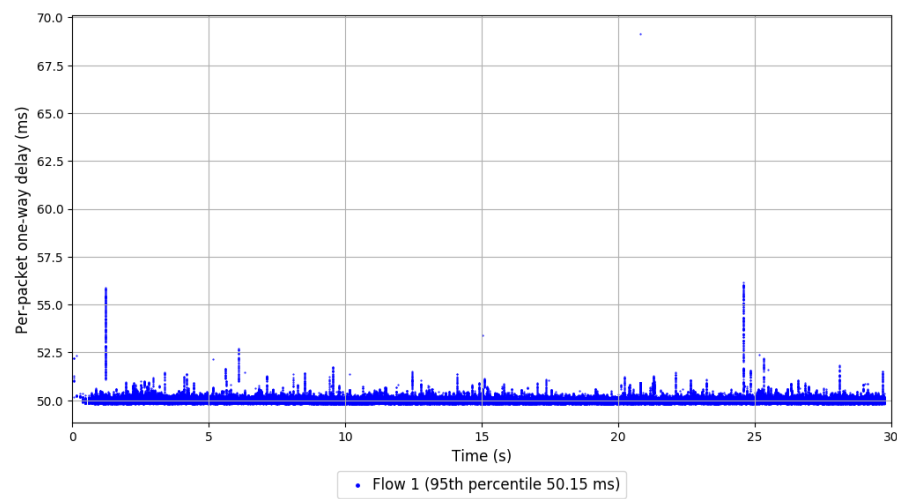
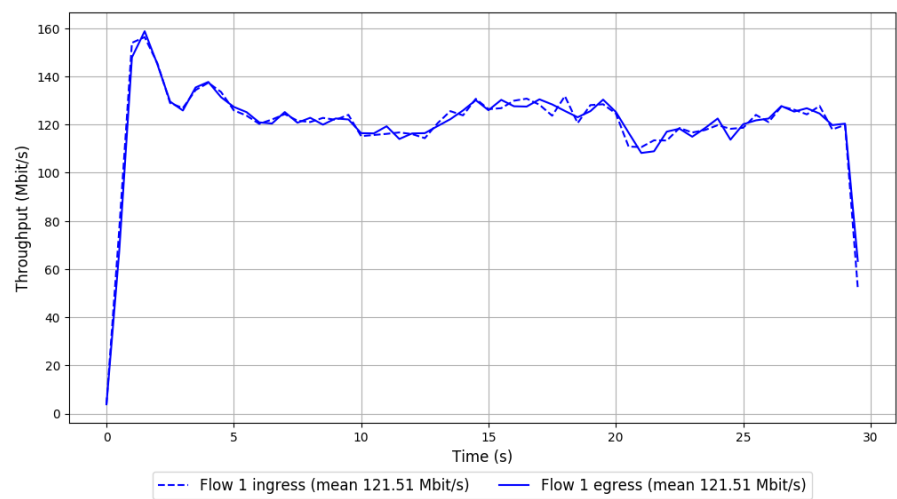
-- Flow 1:

Average throughput: 121.51 Mbit/s

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

Loss rate: 0.00%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-09-18 04:40:06

End at: 2017-09-18 04:40:36

Below is generated by plot.py at 2017-09-18 07:47:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 114.02 Mbit/s

95th percentile per-packet one-way delay: 50.076 ms

Loss rate: 0.00%

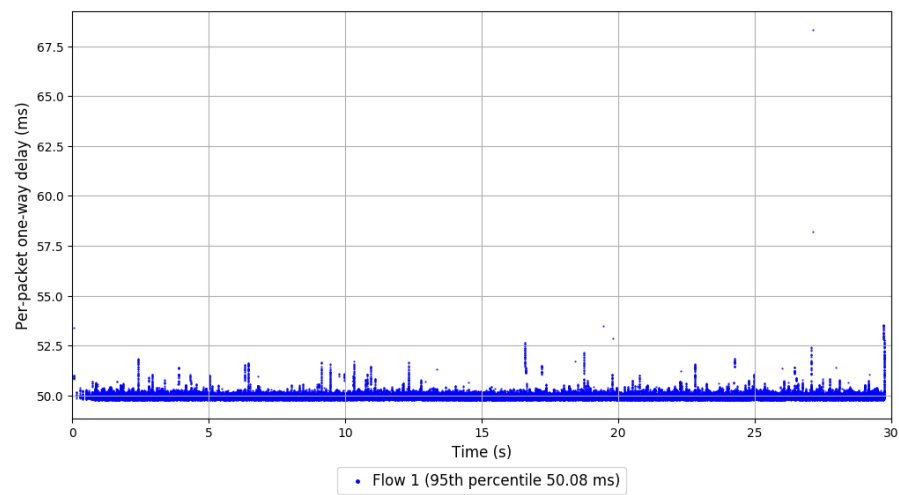
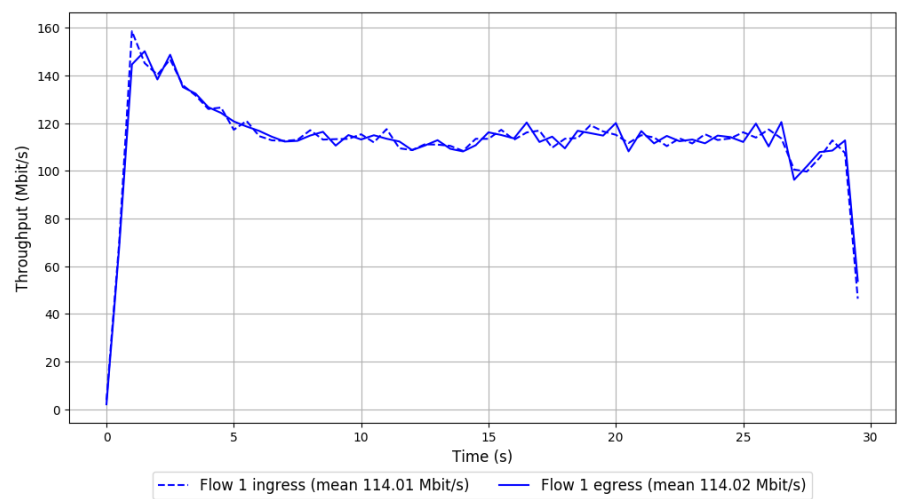
-- Flow 1:

Average throughput: 114.02 Mbit/s

95th percentile per-packet one-way delay: 50.076 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-09-18 04:51:42

End at: 2017-09-18 04:52:12

Below is generated by plot.py at 2017-09-18 07:49:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.99 Mbit/s

95th percentile per-packet one-way delay: 49.994 ms

Loss rate: 0.00%

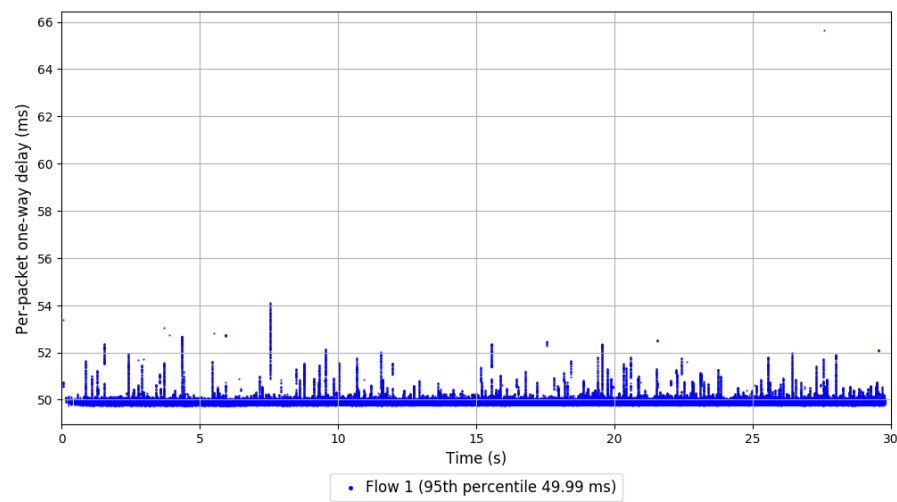
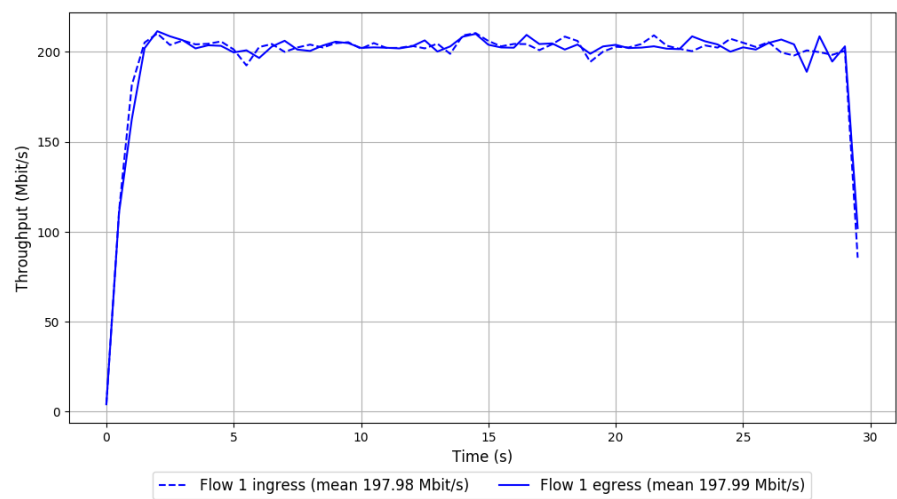
-- Flow 1:

Average throughput: 197.99 Mbit/s

95th percentile per-packet one-way delay: 49.994 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-09-18 05:02:57

End at: 2017-09-18 05:03:27

Below is generated by plot.py at 2017-09-18 07:49:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 157.06 Mbit/s

95th percentile per-packet one-way delay: 50.035 ms

Loss rate: 0.00%

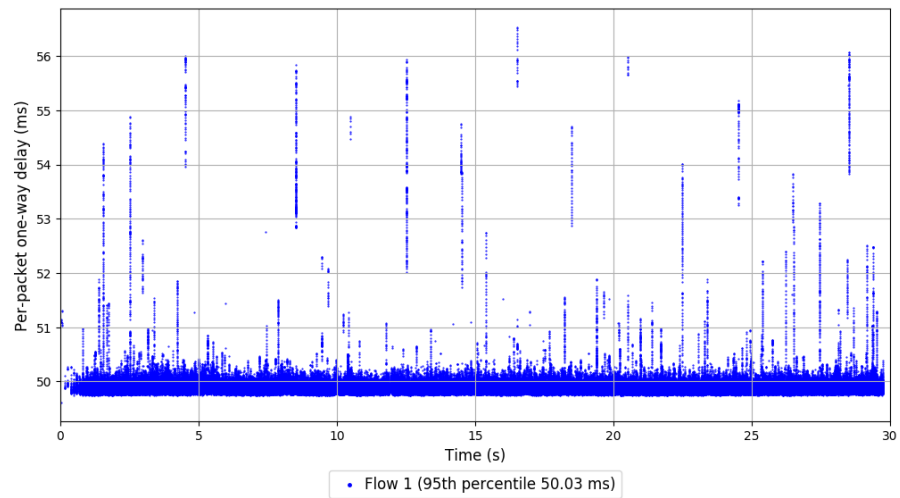
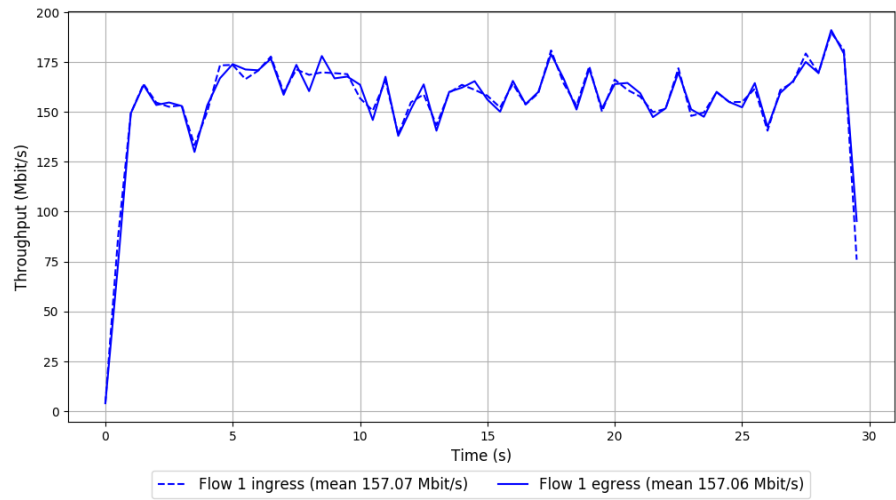
-- Flow 1:

Average throughput: 157.06 Mbit/s

95th percentile per-packet one-way delay: 50.035 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-09-18 05:14:39

End at: 2017-09-18 05:15:09

Below is generated by plot.py at 2017-09-18 07:49:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.78 Mbit/s

95th percentile per-packet one-way delay: 50.052 ms

Loss rate: 0.00%

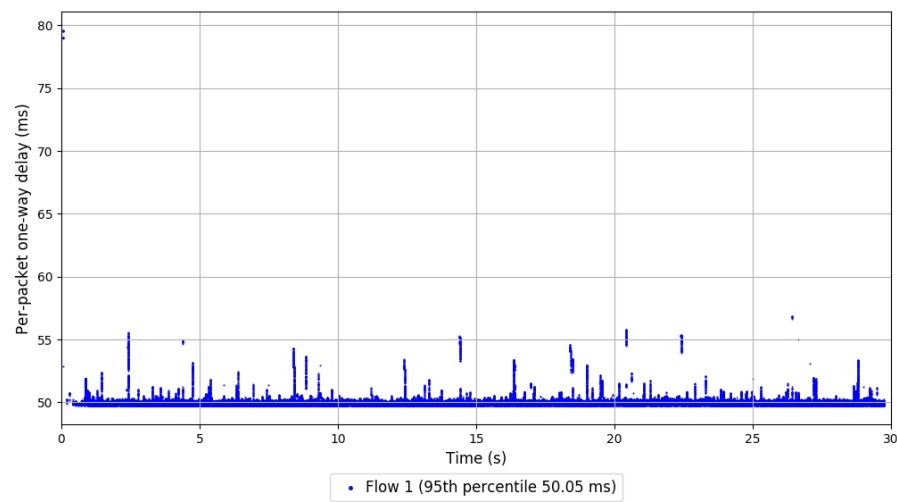
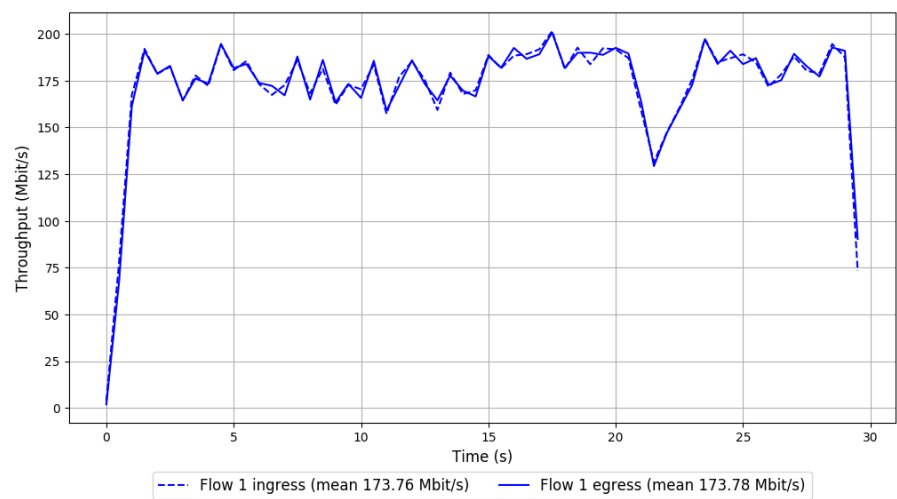
-- Flow 1:

Average throughput: 173.78 Mbit/s

95th percentile per-packet one-way delay: 50.052 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-09-18 05:26:00

End at: 2017-09-18 05:26:30

Below is generated by plot.py at 2017-09-18 07:49:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.37 Mbit/s

95th percentile per-packet one-way delay: 50.046 ms

Loss rate: 0.00%

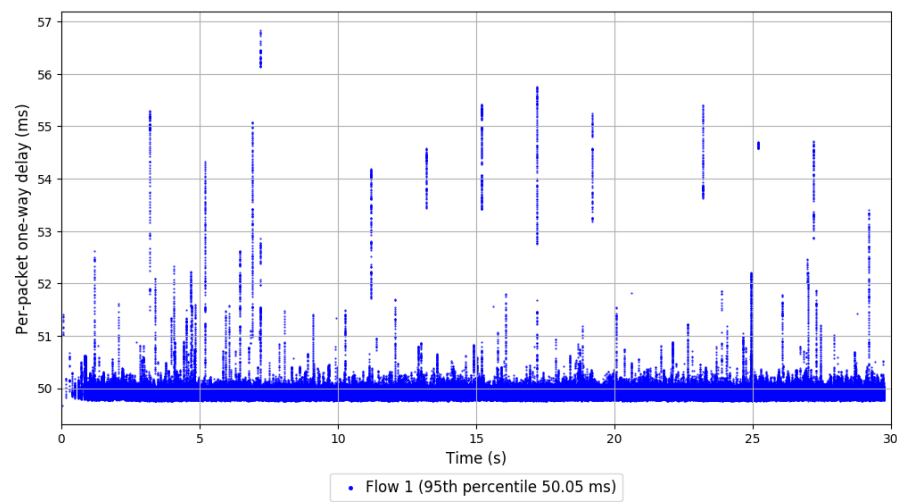
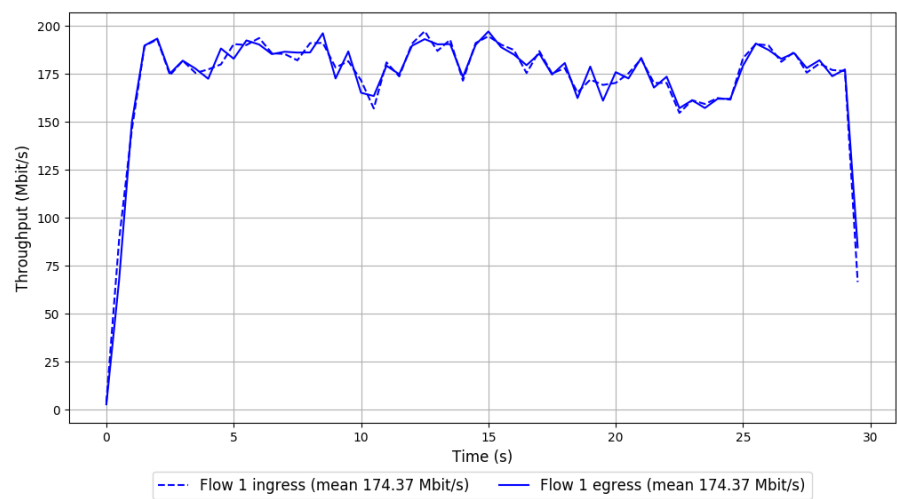
-- Flow 1:

Average throughput: 174.37 Mbit/s

95th percentile per-packet one-way delay: 50.046 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-09-18 05:37:16

End at: 2017-09-18 05:37:46

Below is generated by plot.py at 2017-09-18 07:49:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.14 Mbit/s

95th percentile per-packet one-way delay: 50.073 ms

Loss rate: 0.00%

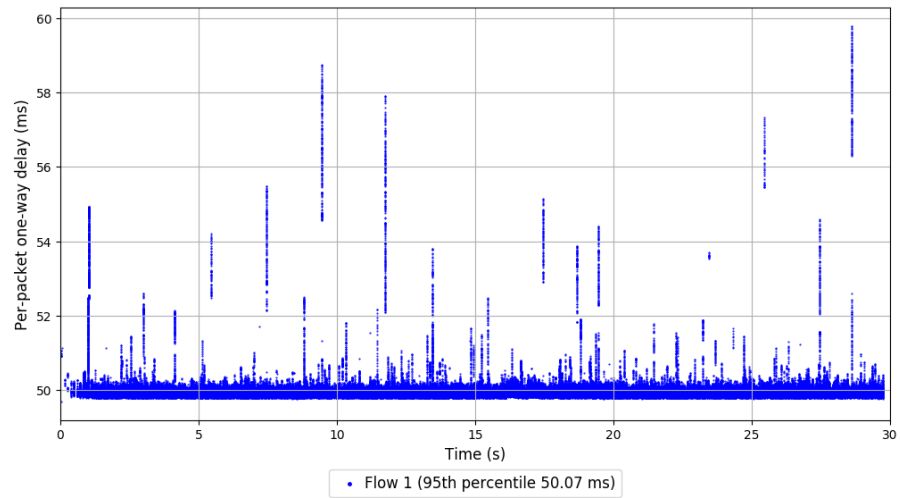
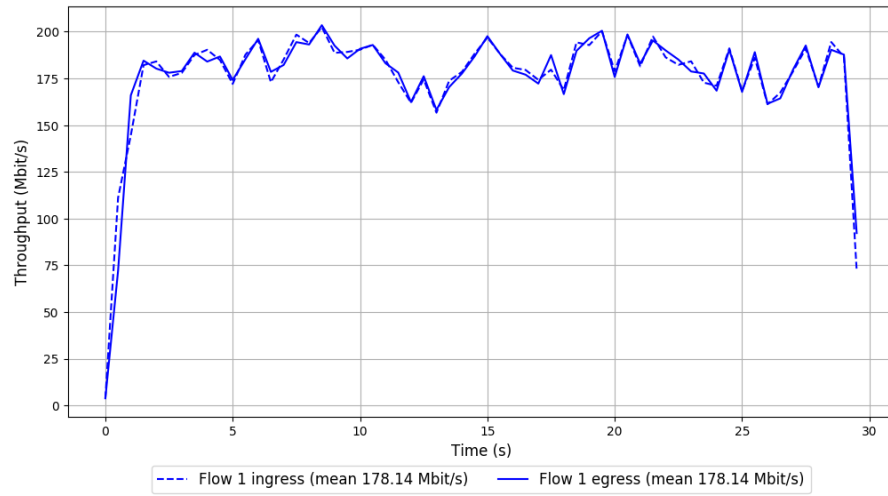
-- Flow 1:

Average throughput: 178.14 Mbit/s

95th percentile per-packet one-way delay: 50.073 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-09-18 05:48:37

End at: 2017-09-18 05:49:07

Below is generated by plot.py at 2017-09-18 07:50:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.64 Mbit/s

95th percentile per-packet one-way delay: 50.073 ms

Loss rate: 0.00%

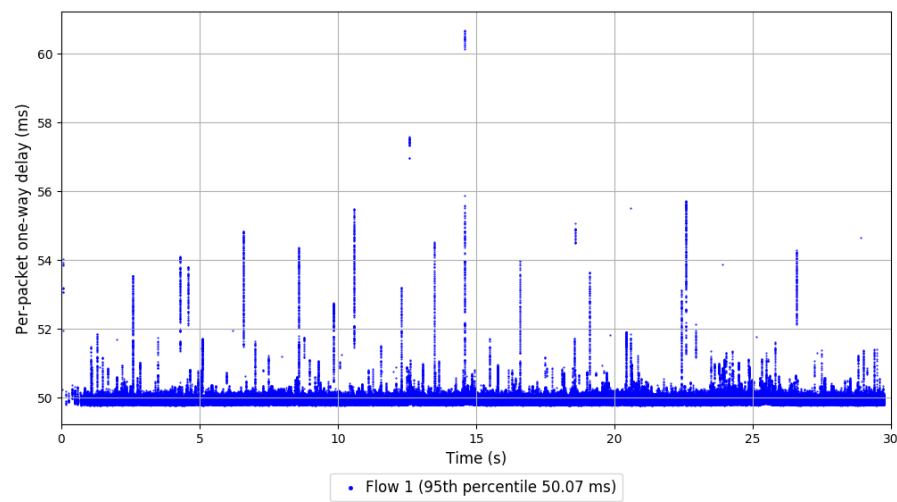
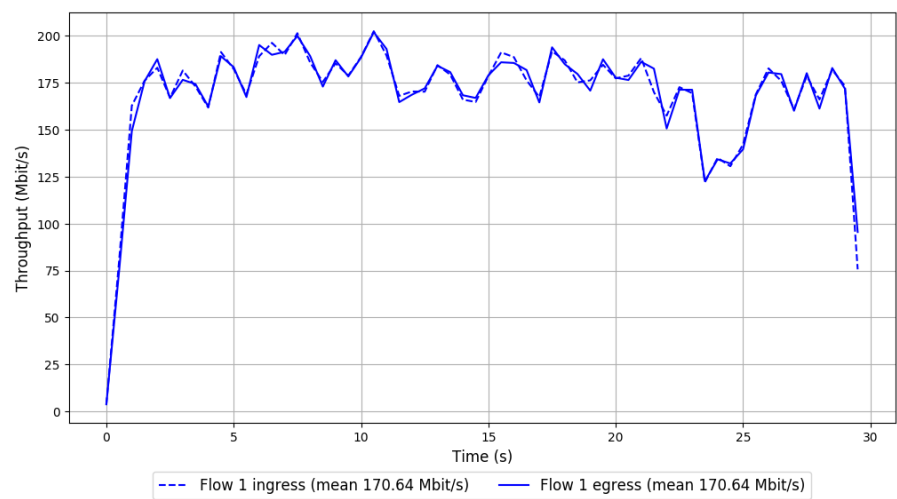
-- Flow 1:

Average throughput: 170.64 Mbit/s

95th percentile per-packet one-way delay: 50.073 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-09-18 06:00:02

End at: 2017-09-18 06:00:32

Below is generated by plot.py at 2017-09-18 07:50:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.45 Mbit/s

95th percentile per-packet one-way delay: 50.095 ms

Loss rate: 0.00%

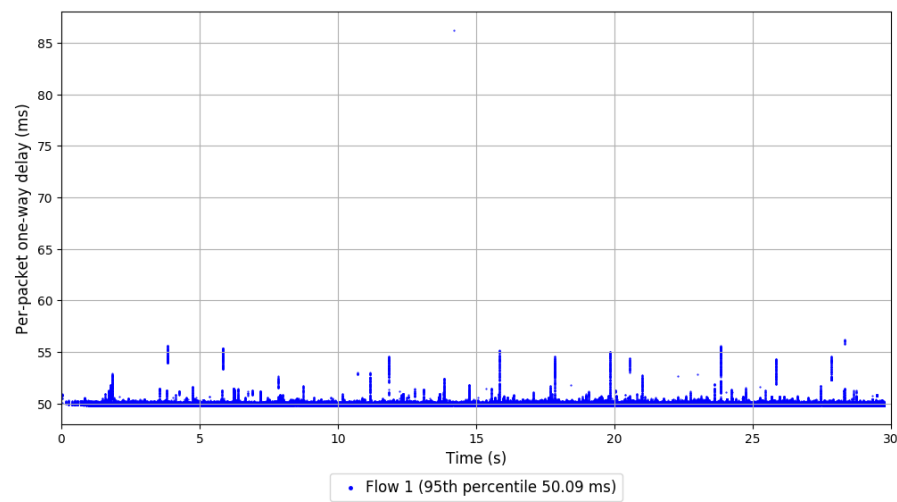
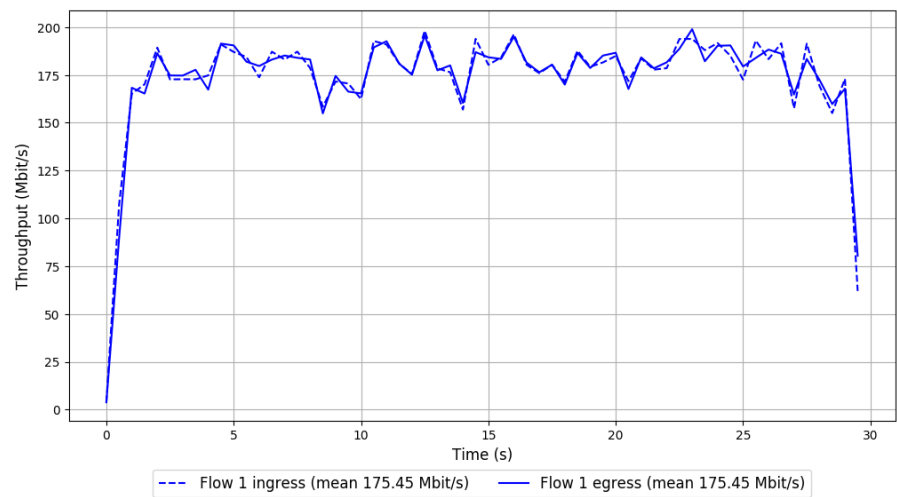
-- Flow 1:

Average throughput: 175.45 Mbit/s

95th percentile per-packet one-way delay: 50.095 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-09-18 06:11:25

End at: 2017-09-18 06:11:55

Below is generated by plot.py at 2017-09-18 07:50:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 156.60 Mbit/s

95th percentile per-packet one-way delay: 50.204 ms

Loss rate: 0.00%

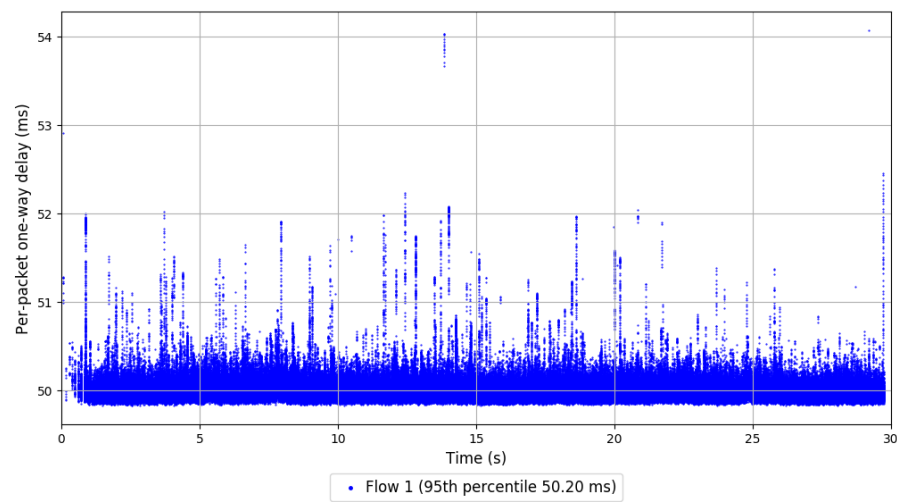
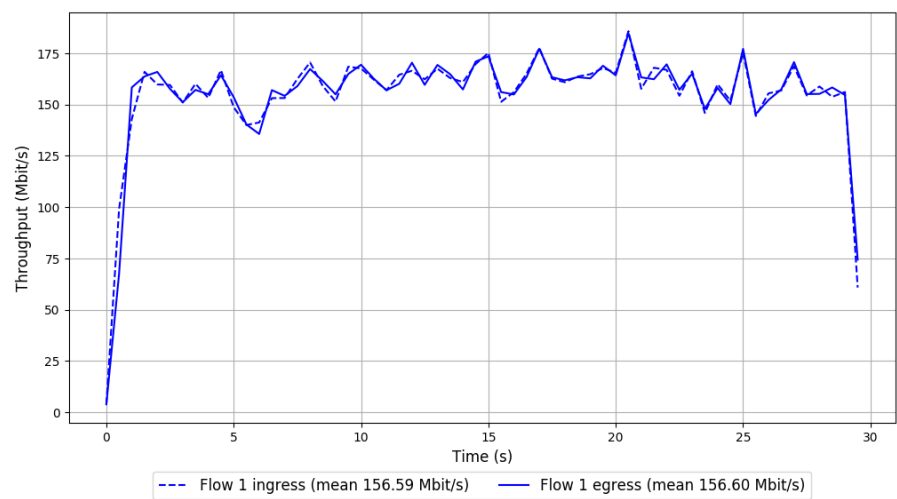
-- Flow 1:

Average throughput: 156.60 Mbit/s

95th percentile per-packet one-way delay: 50.204 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

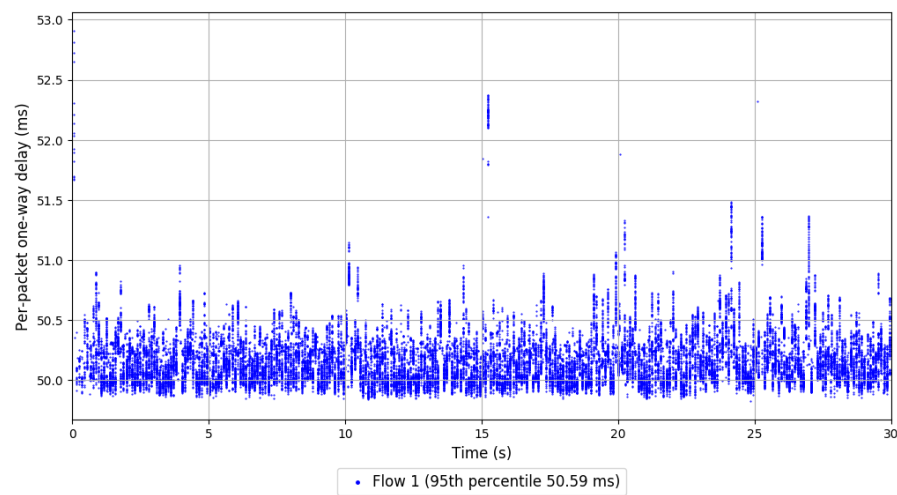
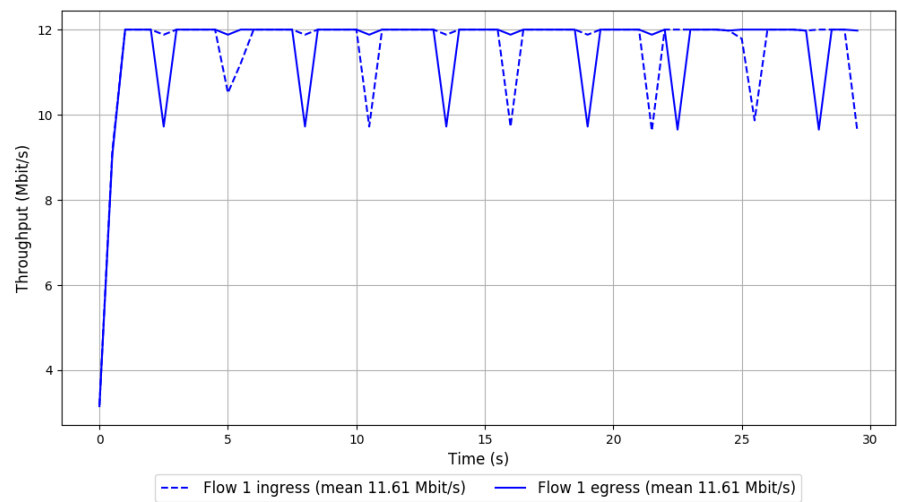


```
Run 1: Statistics of KohoCC

Start at: 2017-09-18 04:25:09
End at: 2017-09-18 04:25:39

# Below is generated by plot.py at 2017-09-18 07:50:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.61 Mbit/s
95th percentile per-packet one-way delay: 50.587 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.61 Mbit/s
95th percentile per-packet one-way delay: 50.587 ms
Loss rate: 0.00%
```

Run 1: Report of KohoCC — Data Link



Run 2: Statistics of KohoCC

Start at: 2017-09-18 04:36:37

End at: 2017-09-18 04:37:07

Below is generated by plot.py at 2017-09-18 07:50:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.31 Mbit/s

95th percentile per-packet one-way delay: 50.452 ms

Loss rate: 0.00%

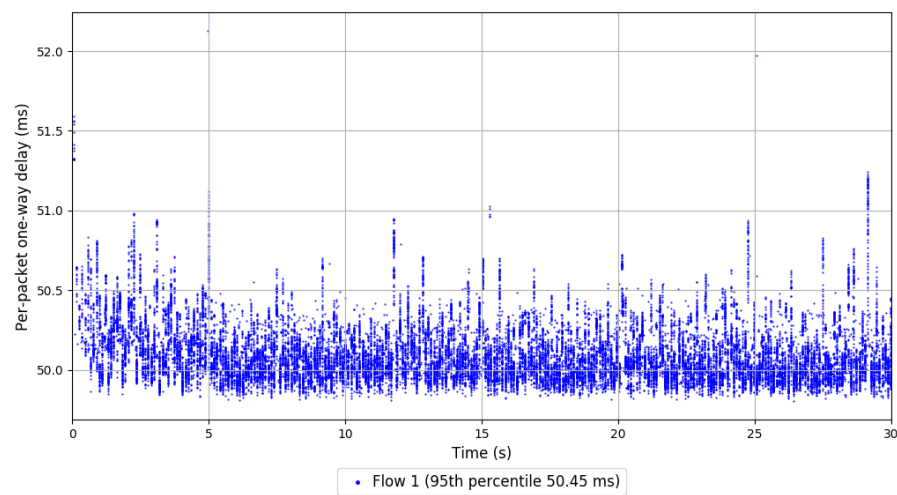
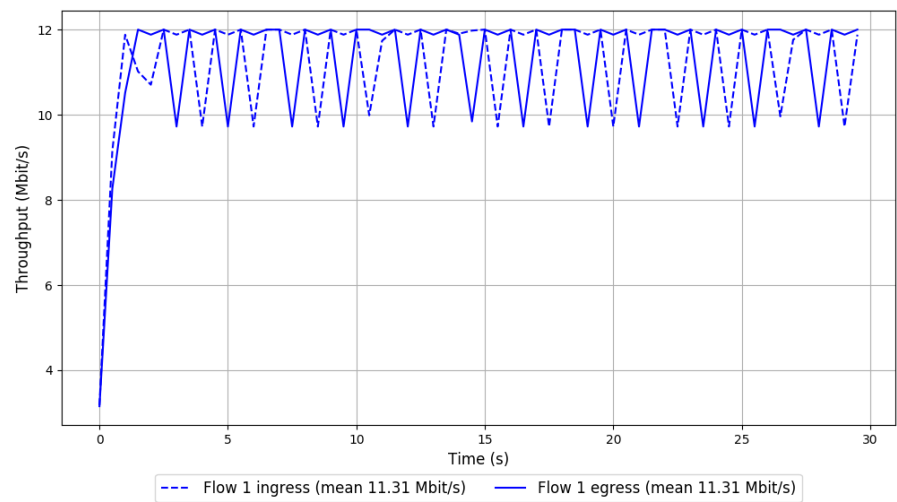
-- Flow 1:

Average throughput: 11.31 Mbit/s

95th percentile per-packet one-way delay: 50.452 ms

Loss rate: 0.00%

Run 2: Report of KohoCC — Data Link



Run 3: Statistics of KohoCC

Start at: 2017-09-18 04:47:56

End at: 2017-09-18 04:48:26

Below is generated by plot.py at 2017-09-18 07:50:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.74 Mbit/s

95th percentile per-packet one-way delay: 50.755 ms

Loss rate: 0.05%

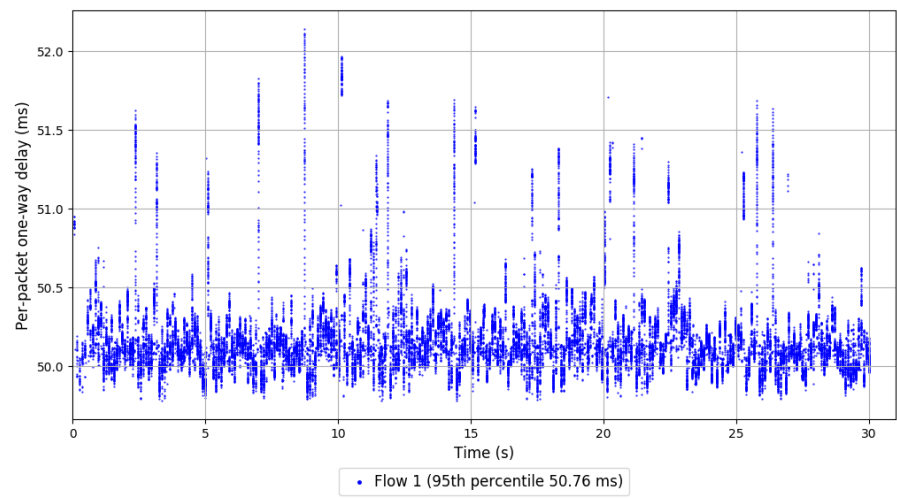
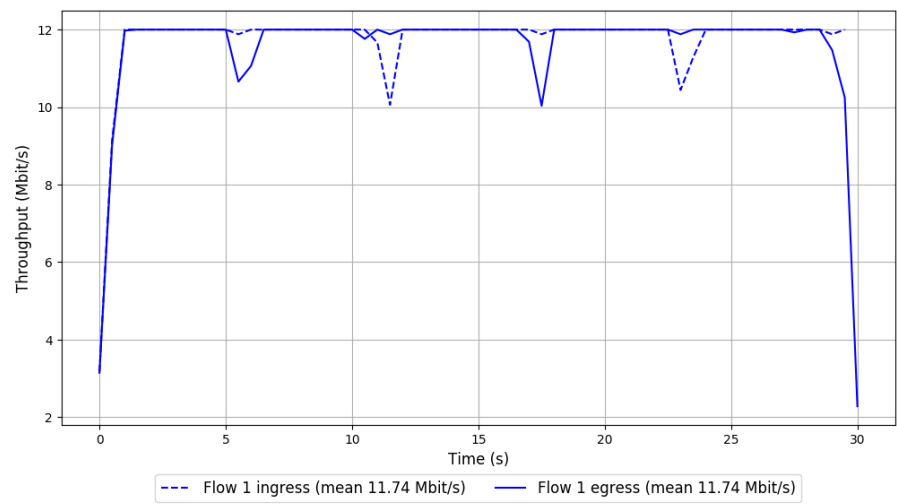
-- Flow 1:

Average throughput: 11.74 Mbit/s

95th percentile per-packet one-way delay: 50.755 ms

Loss rate: 0.05%

Run 3: Report of KohoCC — Data Link



Run 4: Statistics of KohoCC

Start at: 2017-09-18 04:59:27

End at: 2017-09-18 04:59:57

Below is generated by plot.py at 2017-09-18 07:50:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.27 Mbit/s

95th percentile per-packet one-way delay: 50.363 ms

Loss rate: 0.05%

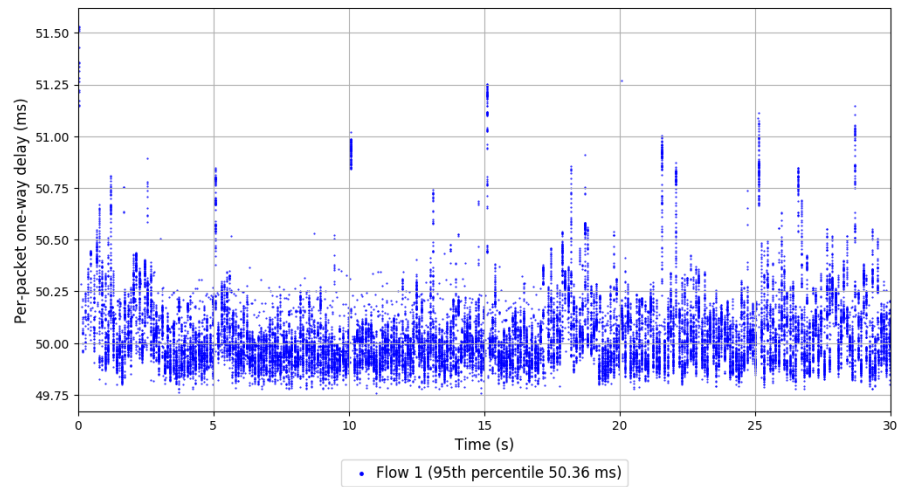
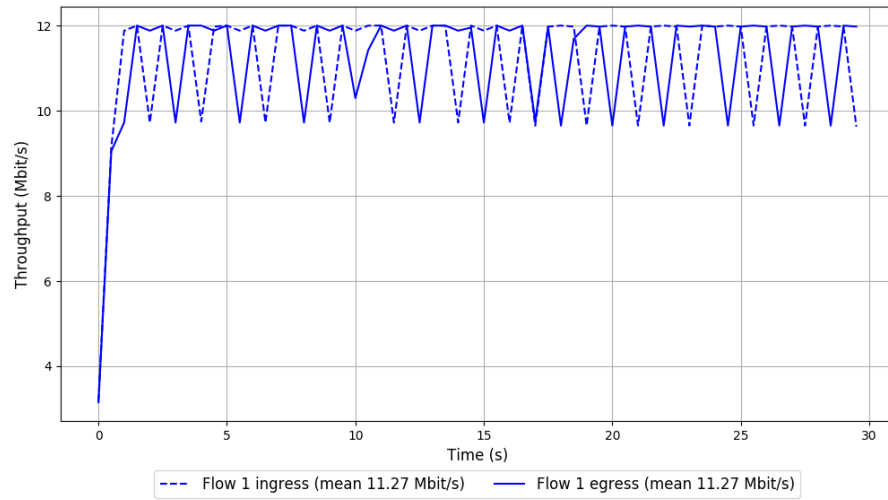
-- Flow 1:

Average throughput: 11.27 Mbit/s

95th percentile per-packet one-way delay: 50.363 ms

Loss rate: 0.05%

Run 4: Report of KohoCC — Data Link



Run 5: Statistics of KohoCC

Start at: 2017-09-18 05:10:49

End at: 2017-09-18 05:11:19

Below is generated by plot.py at 2017-09-18 07:50:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.29 Mbit/s

95th percentile per-packet one-way delay: 50.370 ms

Loss rate: 0.10%

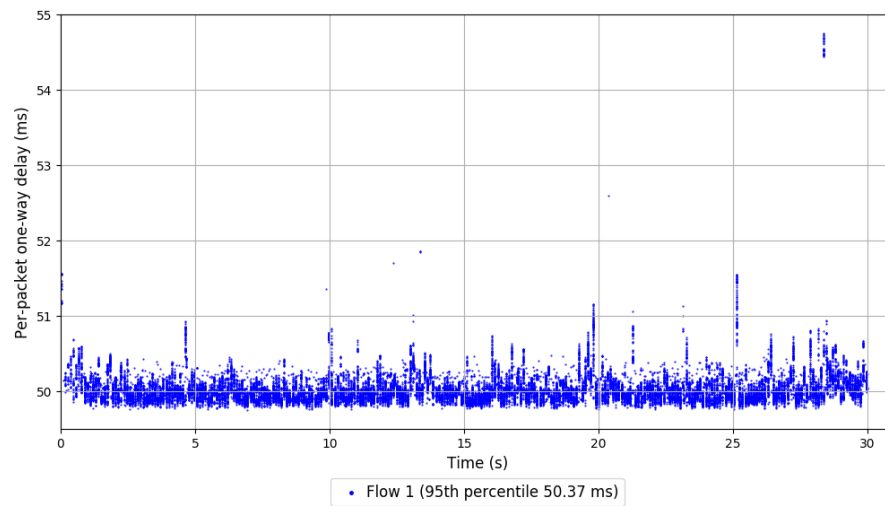
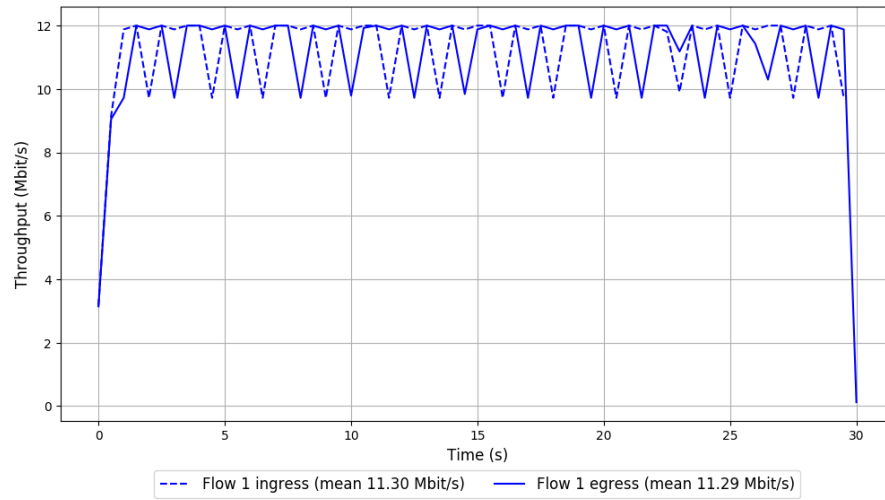
-- Flow 1:

Average throughput: 11.29 Mbit/s

95th percentile per-packet one-way delay: 50.370 ms

Loss rate: 0.10%

Run 5: Report of KohoCC — Data Link



Run 6: Statistics of KohoCC

Start at: 2017-09-18 05:22:33

End at: 2017-09-18 05:23:03

Below is generated by plot.py at 2017-09-18 07:50:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.36 Mbit/s

95th percentile per-packet one-way delay: 50.392 ms

Loss rate: 0.00%

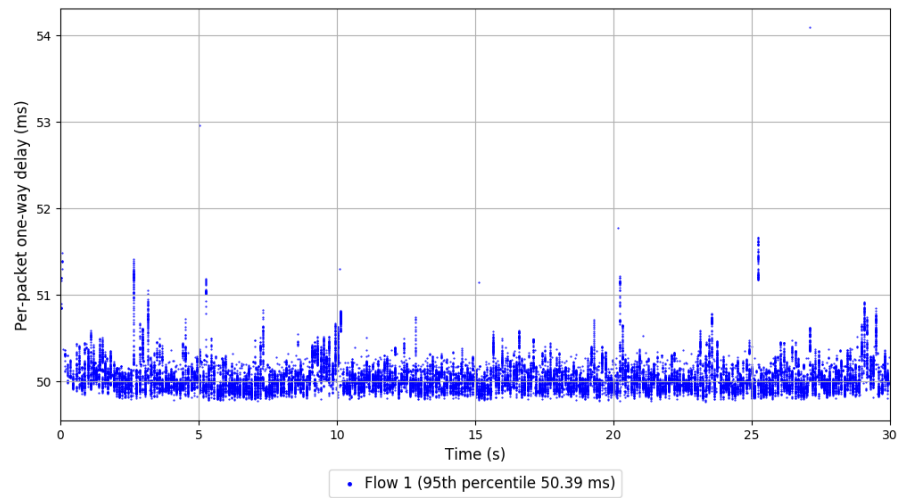
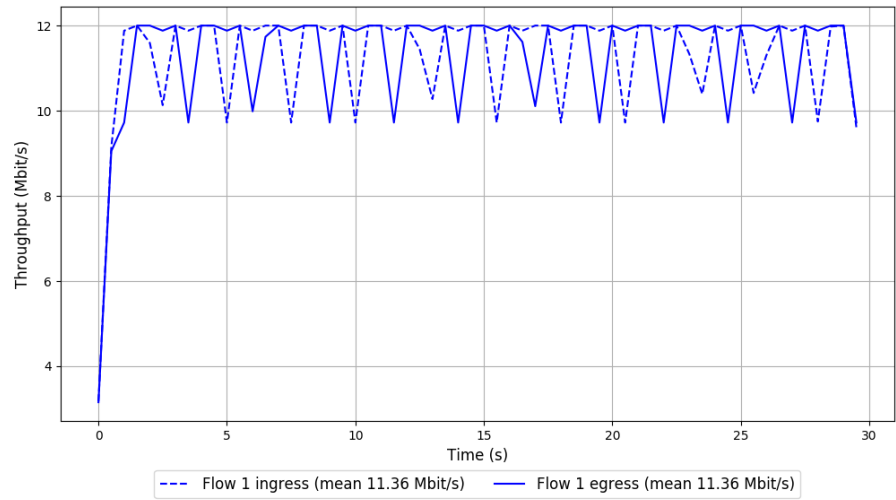
-- Flow 1:

Average throughput: 11.36 Mbit/s

95th percentile per-packet one-way delay: 50.392 ms

Loss rate: 0.00%

Run 6: Report of KohoCC — Data Link



Run 7: Statistics of KohoCC

Start at: 2017-09-18 05:33:48

End at: 2017-09-18 05:34:18

Below is generated by plot.py at 2017-09-18 07:50:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.65 Mbit/s

95th percentile per-packet one-way delay: 50.609 ms

Loss rate: 0.00%

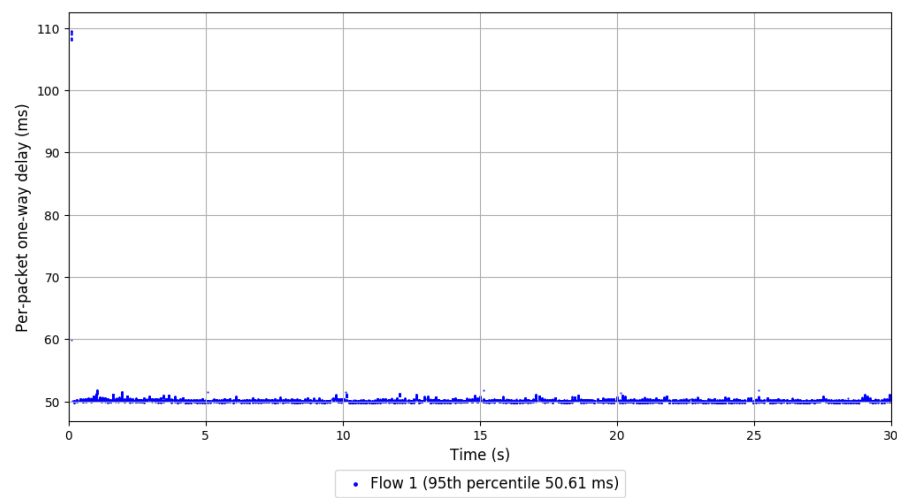
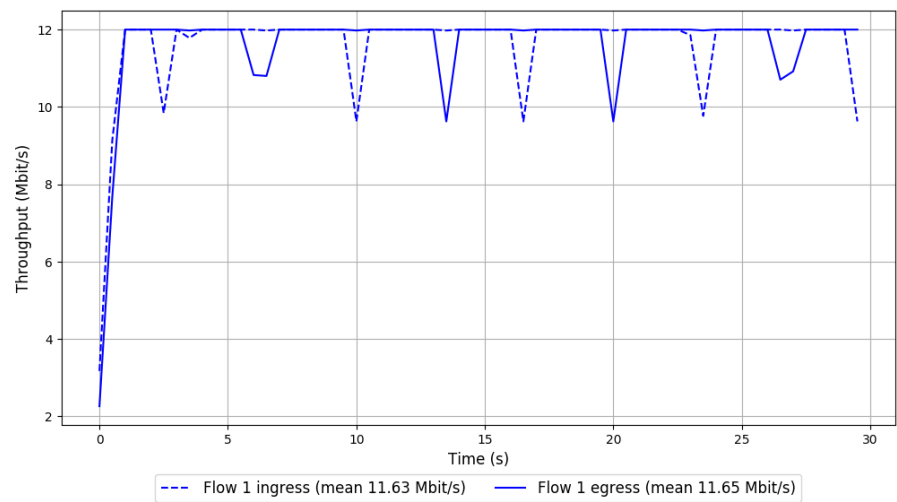
-- Flow 1:

Average throughput: 11.65 Mbit/s

95th percentile per-packet one-way delay: 50.609 ms

Loss rate: 0.00%

Run 7: Report of KohoCC — Data Link



Run 8: Statistics of KohoCC

Start at: 2017-09-18 05:45:09

End at: 2017-09-18 05:45:39

Below is generated by plot.py at 2017-09-18 07:50:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.36 Mbit/s

95th percentile per-packet one-way delay: 50.524 ms

Loss rate: 0.00%

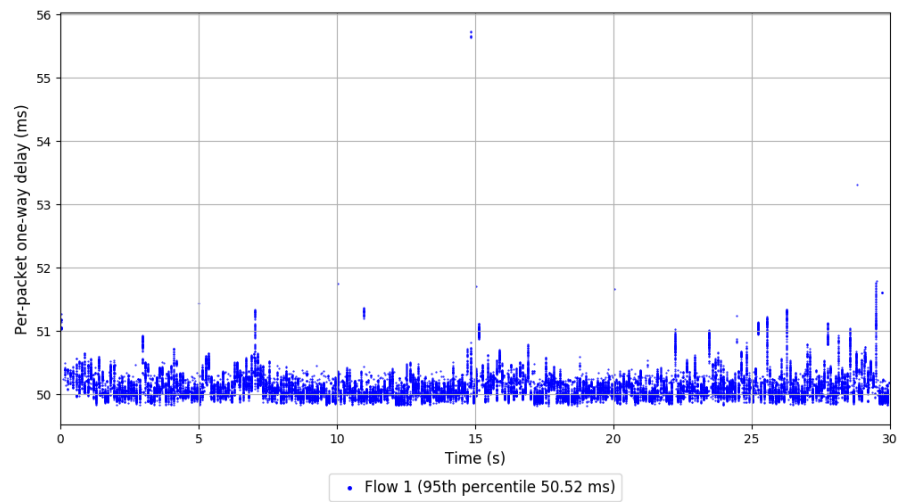
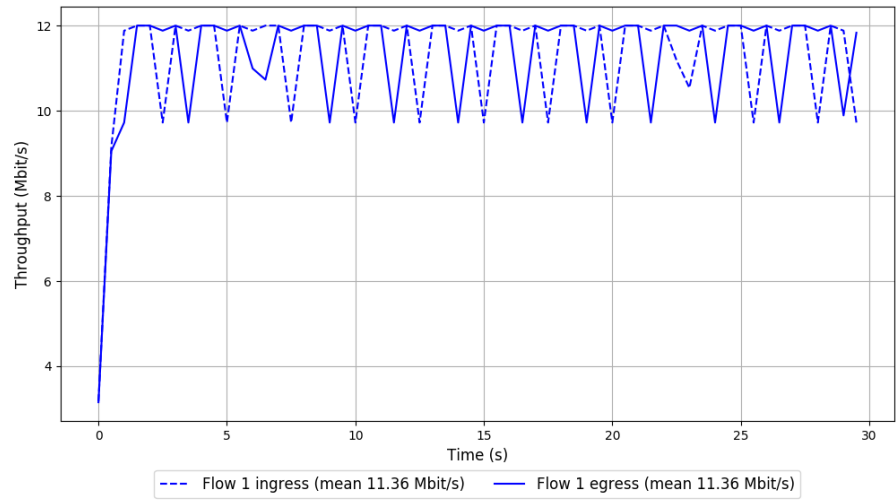
-- Flow 1:

Average throughput: 11.36 Mbit/s

95th percentile per-packet one-way delay: 50.524 ms

Loss rate: 0.00%

Run 8: Report of KohoCC — Data Link



Run 9: Statistics of KohoCC

Start at: 2017-09-18 05:56:34

End at: 2017-09-18 05:57:04

Below is generated by plot.py at 2017-09-18 07:50:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.30 Mbit/s

95th percentile per-packet one-way delay: 50.290 ms

Loss rate: 0.00%

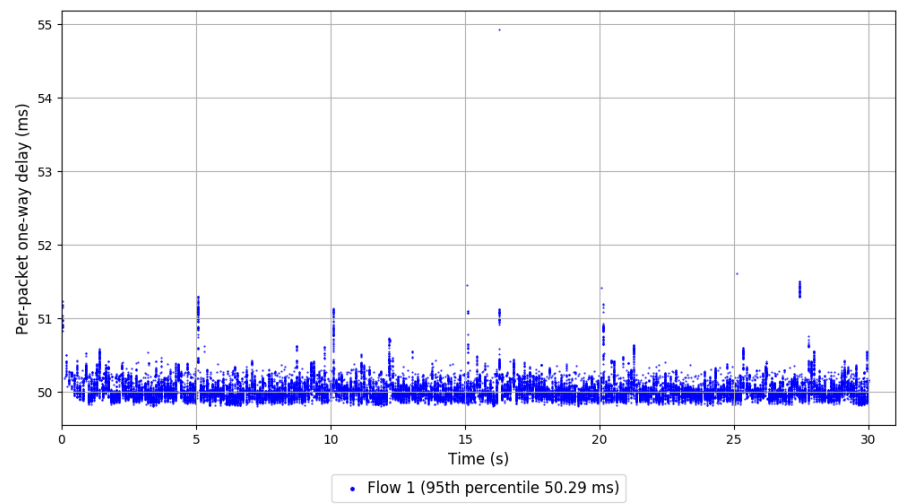
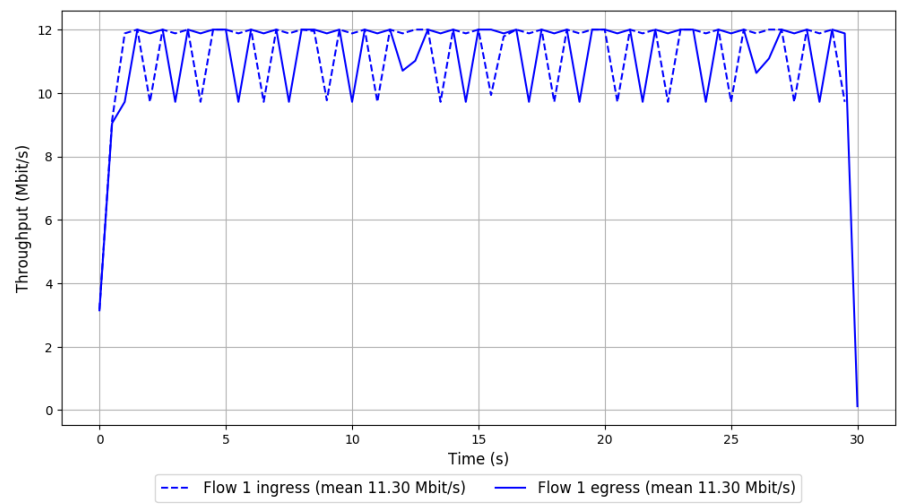
-- Flow 1:

Average throughput: 11.30 Mbit/s

95th percentile per-packet one-way delay: 50.290 ms

Loss rate: 0.00%

Run 9: Report of KohoCC — Data Link



Run 10: Statistics of KohoCC

Start at: 2017-09-18 06:07:56

End at: 2017-09-18 06:08:26

Below is generated by plot.py at 2017-09-18 07:50:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.64 Mbit/s

95th percentile per-packet one-way delay: 50.372 ms

Loss rate: 0.02%

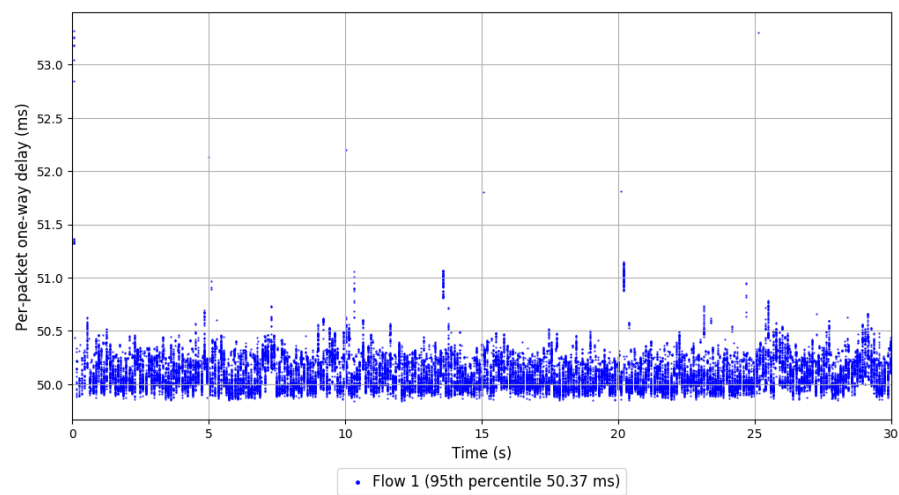
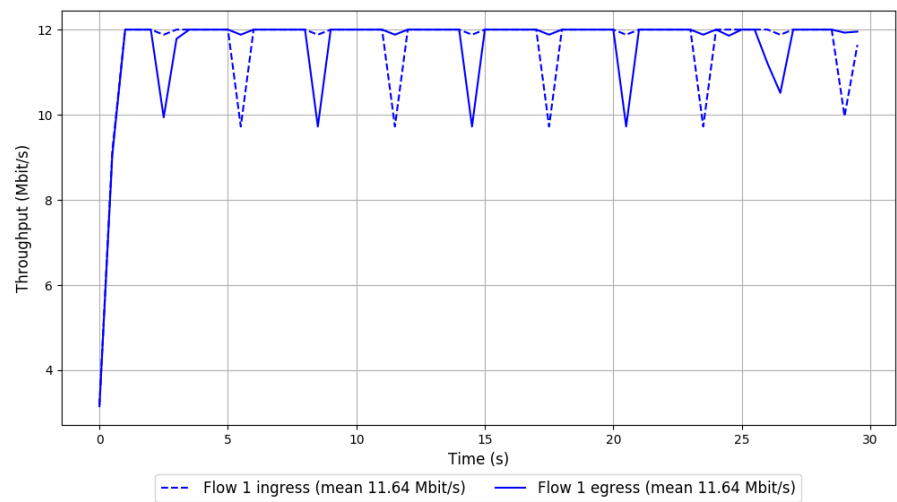
-- Flow 1:

Average throughput: 11.64 Mbit/s

95th percentile per-packet one-way delay: 50.372 ms

Loss rate: 0.02%

Run 10: Report of KohoCC — Data Link

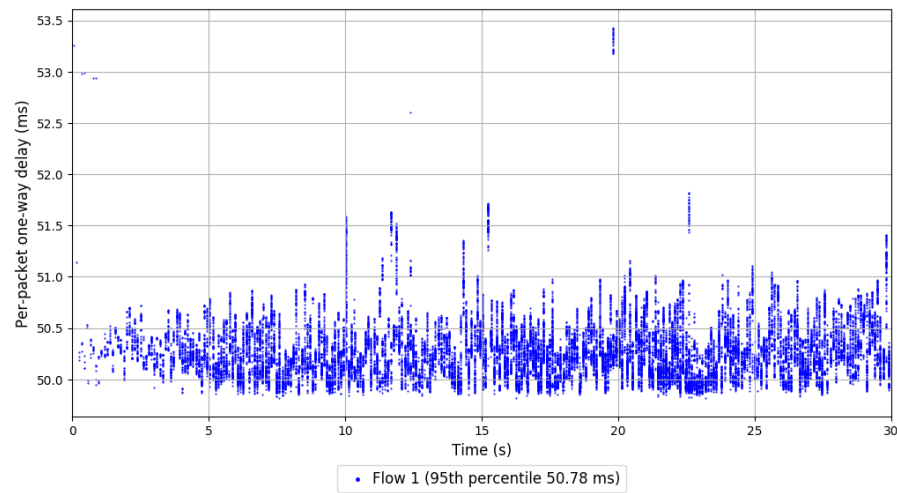
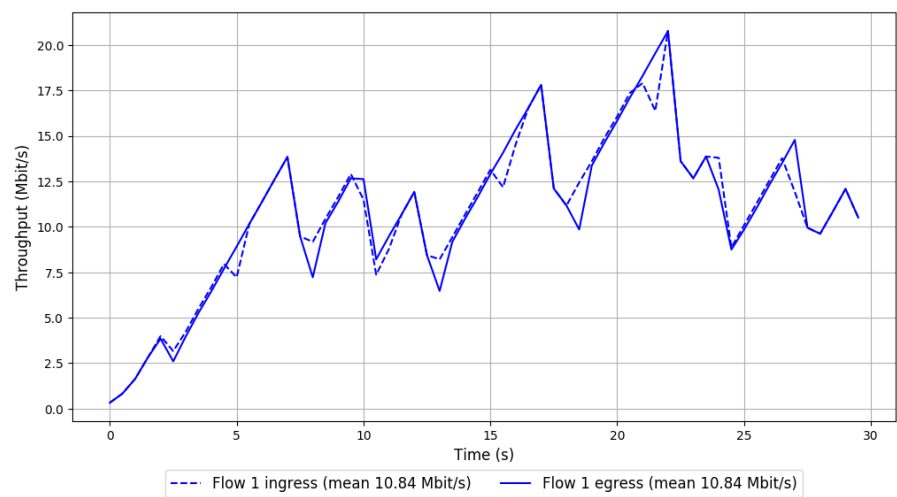


```
Run 1: Statistics of LEDBAT

Start at: 2017-09-18 04:31:49
End at: 2017-09-18 04:32:19

# Below is generated by plot.py at 2017-09-18 07:50:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.84 Mbit/s
95th percentile per-packet one-way delay: 50.780 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.84 Mbit/s
95th percentile per-packet one-way delay: 50.780 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2017-09-18 04:42:58

End at: 2017-09-18 04:43:28

Below is generated by plot.py at 2017-09-18 07:50:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.62 Mbit/s

95th percentile per-packet one-way delay: 50.976 ms

Loss rate: 0.01%

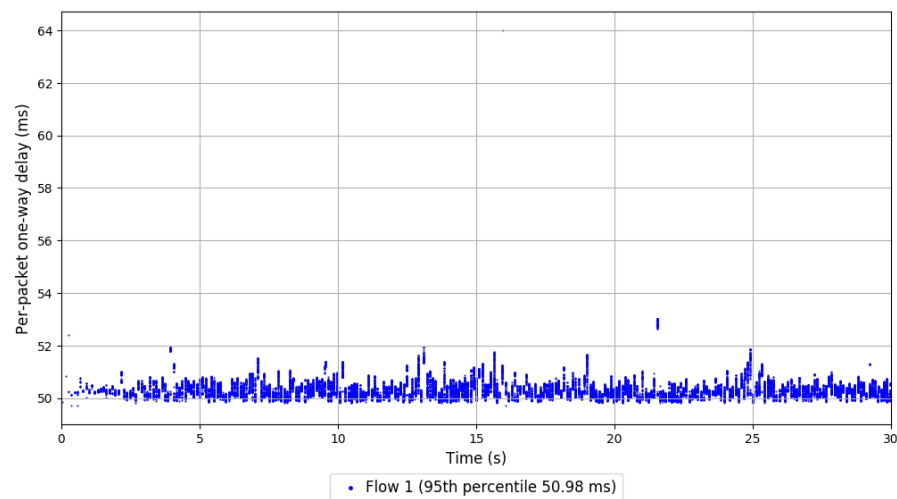
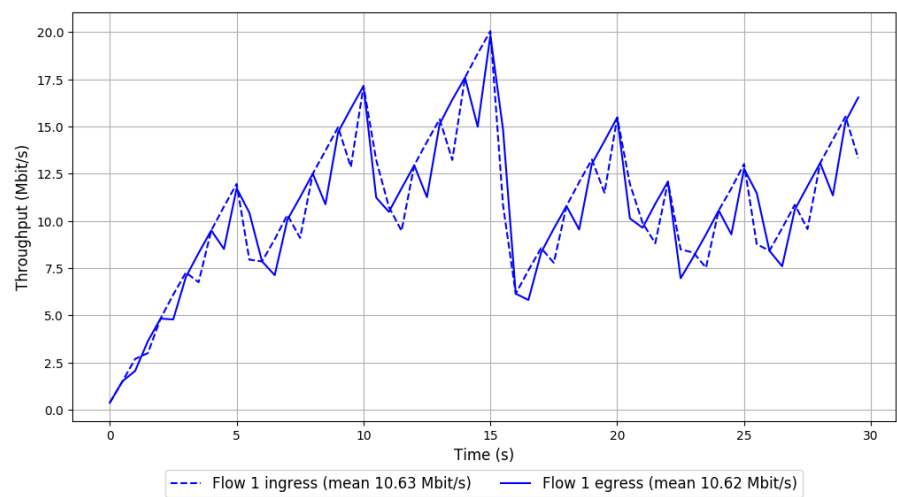
-- Flow 1:

Average throughput: 10.62 Mbit/s

95th percentile per-packet one-way delay: 50.976 ms

Loss rate: 0.01%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-09-18 04:54:29

End at: 2017-09-18 04:54:59

Below is generated by plot.py at 2017-09-18 07:50:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.77 Mbit/s

95th percentile per-packet one-way delay: 50.774 ms

Loss rate: 0.42%

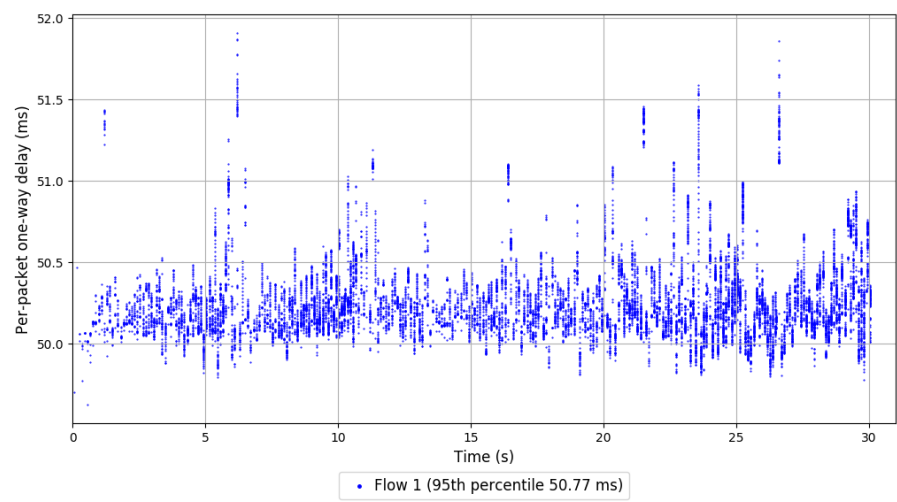
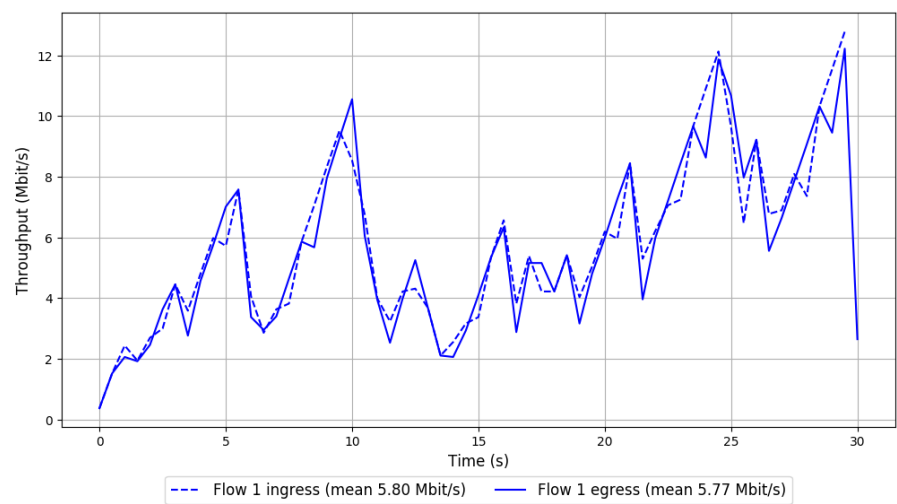
-- Flow 1:

Average throughput: 5.77 Mbit/s

95th percentile per-packet one-way delay: 50.774 ms

Loss rate: 0.42%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-09-18 05:05:48

End at: 2017-09-18 05:06:18

Below is generated by plot.py at 2017-09-18 07:50:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.20 Mbit/s

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

Loss rate: 0.08%

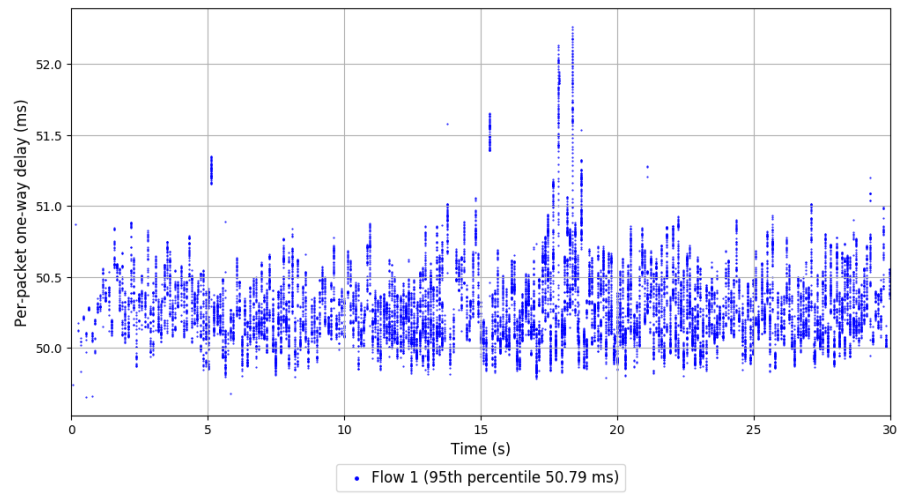
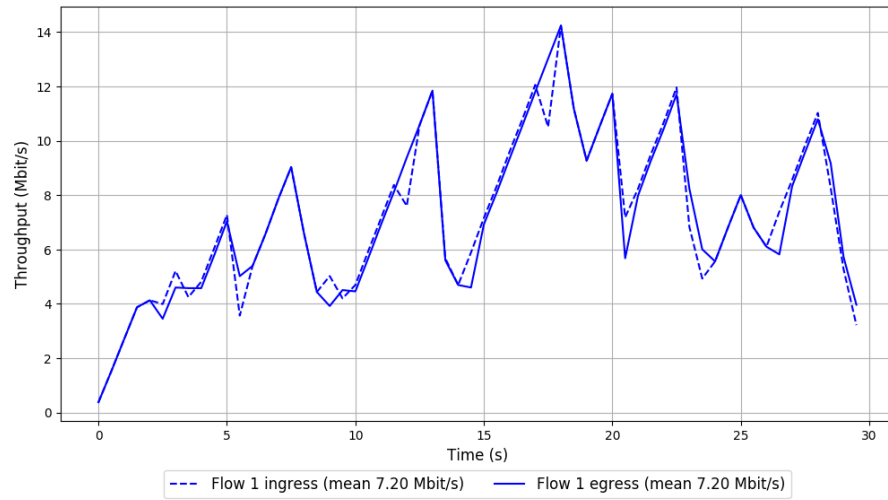
-- Flow 1:

Average throughput: 7.20 Mbit/s

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

Loss rate: 0.08%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-09-18 05:17:34

End at: 2017-09-18 05:18:04

Below is generated by plot.py at 2017-09-18 07:50:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.80 Mbit/s

95th percentile per-packet one-way delay: 51.181 ms

Loss rate: 0.02%

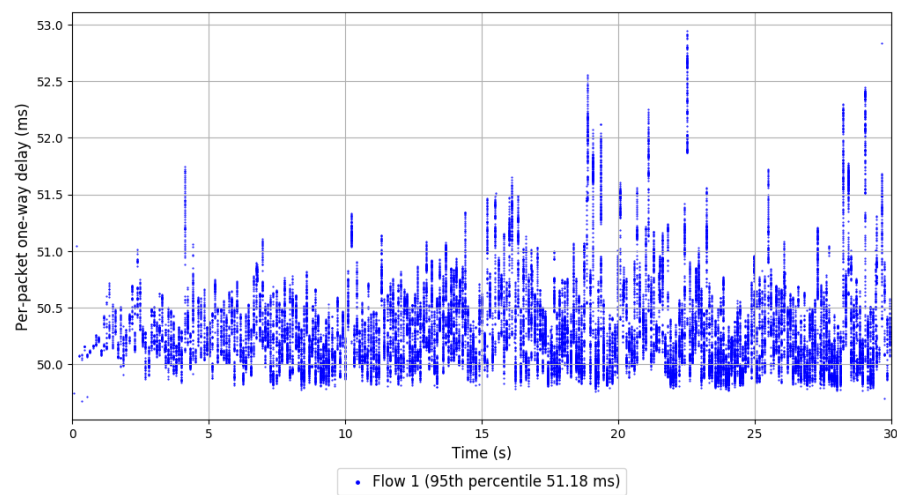
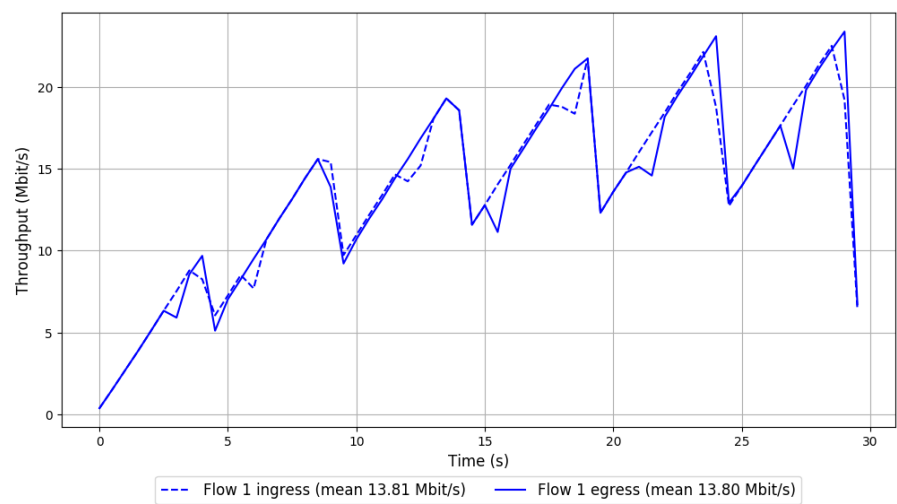
-- Flow 1:

Average throughput: 13.80 Mbit/s

95th percentile per-packet one-way delay: 51.181 ms

Loss rate: 0.02%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-09-18 05:28:50

End at: 2017-09-18 05:29:20

Below is generated by plot.py at 2017-09-18 07:50:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.60 Mbit/s

95th percentile per-packet one-way delay: 50.817 ms

Loss rate: 0.08%

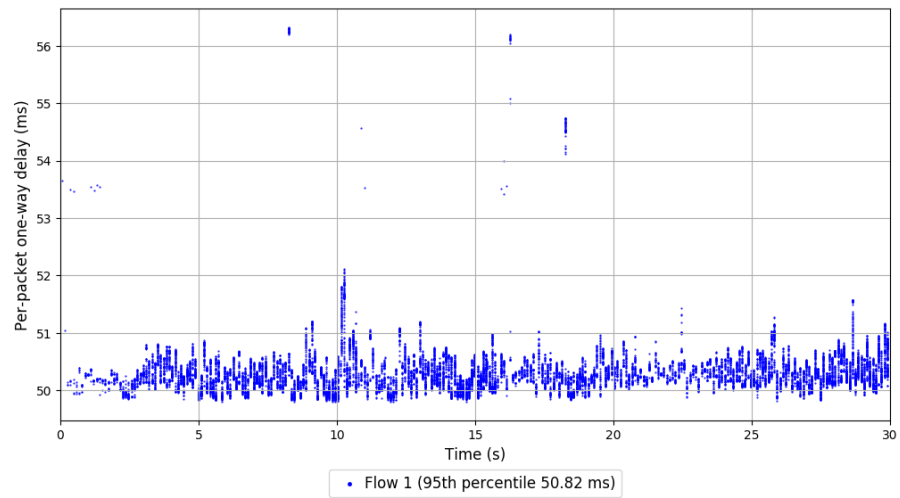
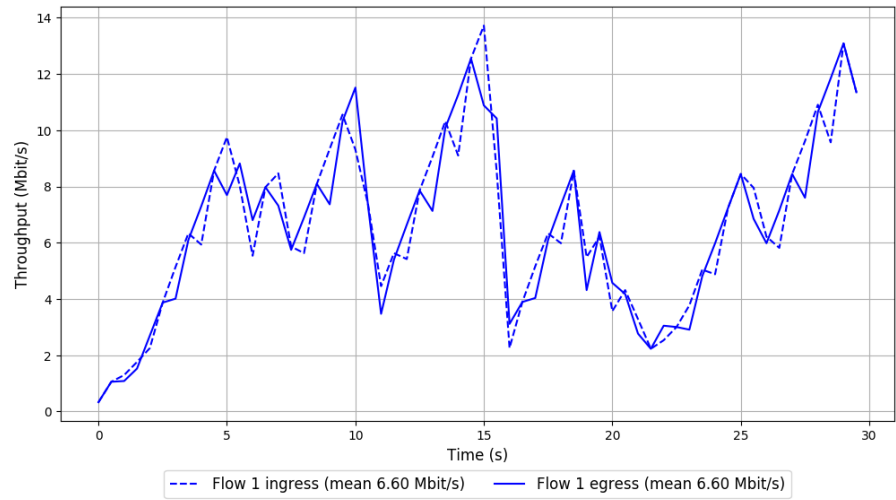
-- Flow 1:

Average throughput: 6.60 Mbit/s

95th percentile per-packet one-way delay: 50.817 ms

Loss rate: 0.08%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-09-18 05:40:10

End at: 2017-09-18 05:40:40

Below is generated by plot.py at 2017-09-18 07:50:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.53 Mbit/s

95th percentile per-packet one-way delay: 50.824 ms

Loss rate: 0.14%

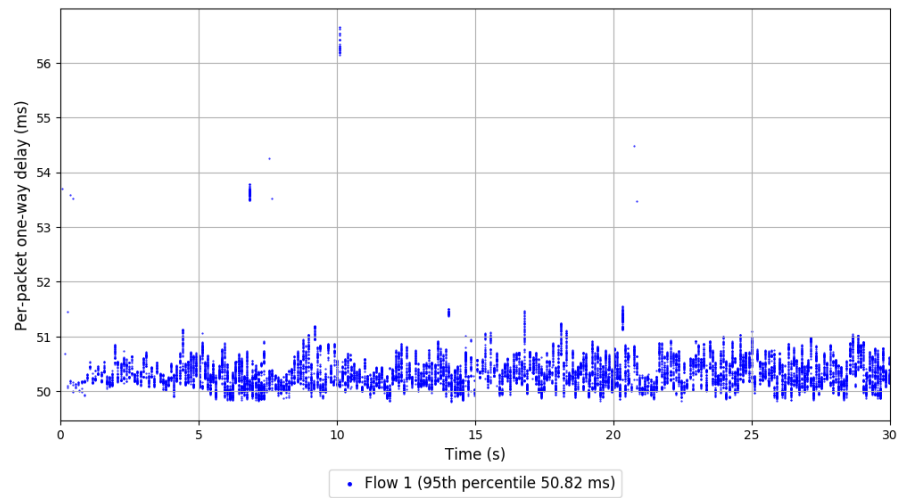
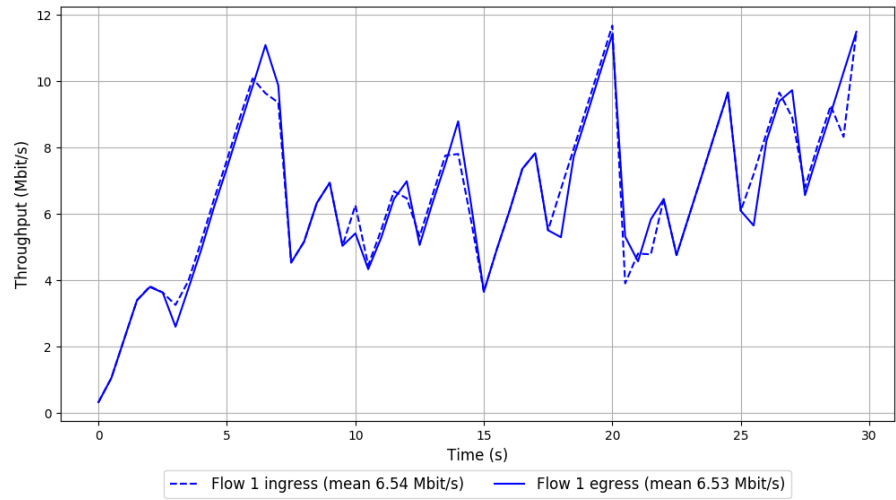
-- Flow 1:

Average throughput: 6.53 Mbit/s

95th percentile per-packet one-way delay: 50.824 ms

Loss rate: 0.14%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-09-18 05:51:33

End at: 2017-09-18 05:52:03

Below is generated by plot.py at 2017-09-18 07:50:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.03 Mbit/s

95th percentile per-packet one-way delay: 50.883 ms

Loss rate: 0.16%

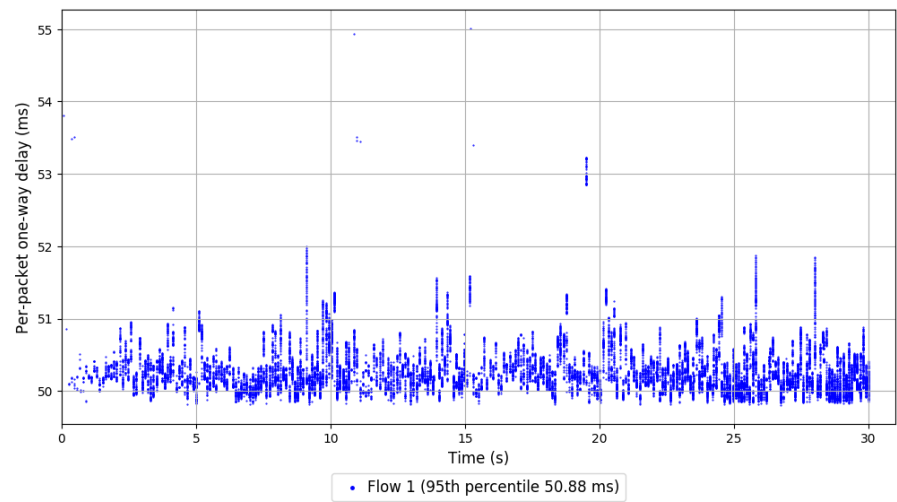
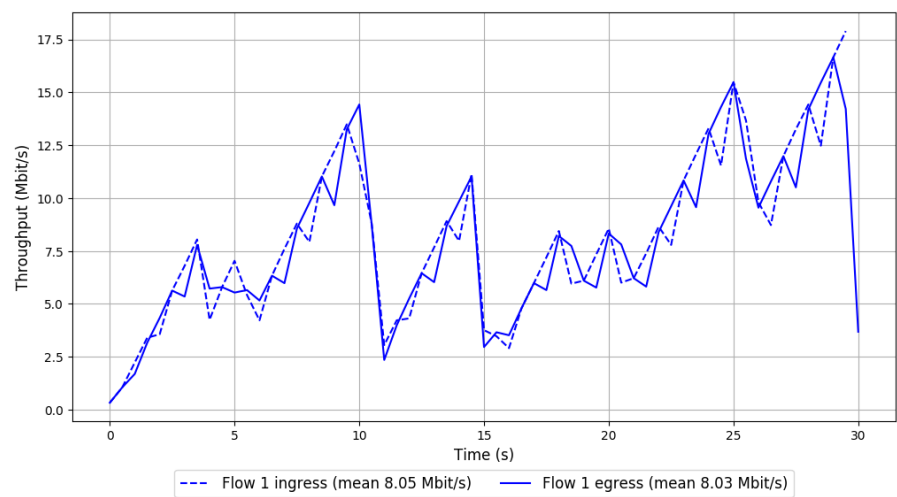
-- Flow 1:

Average throughput: 8.03 Mbit/s

95th percentile per-packet one-way delay: 50.883 ms

Loss rate: 0.16%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-09-18 06:02:53

End at: 2017-09-18 06:03:23

Below is generated by plot.py at 2017-09-18 07:50:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.06 Mbit/s

95th percentile per-packet one-way delay: 50.694 ms

Loss rate: 0.07%

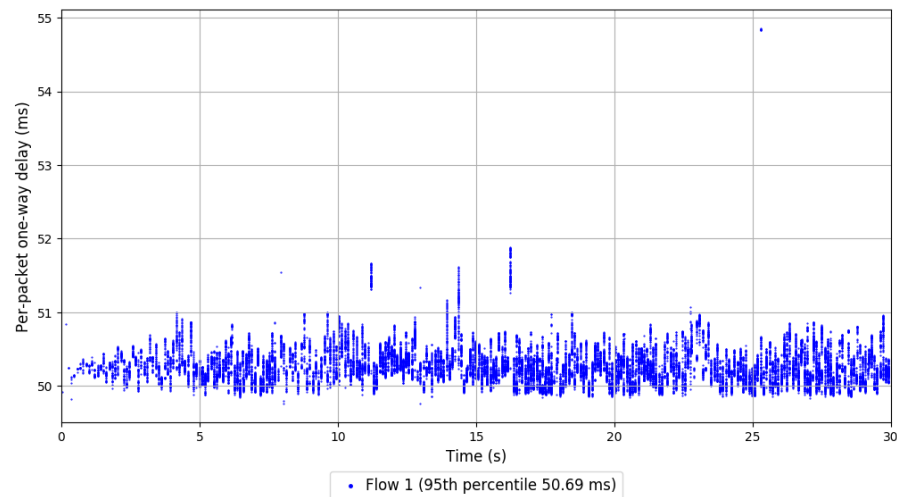
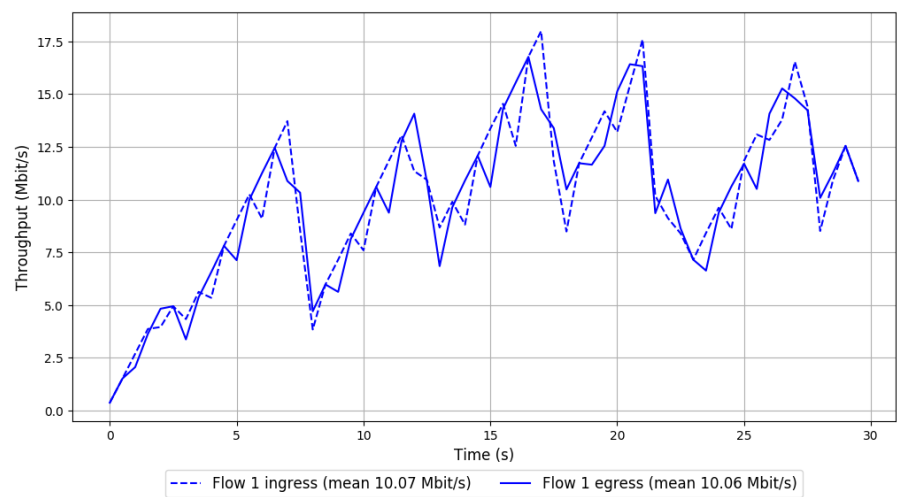
-- Flow 1:

Average throughput: 10.06 Mbit/s

95th percentile per-packet one-way delay: 50.694 ms

Loss rate: 0.07%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-09-18 06:14:19

End at: 2017-09-18 06:14:49

Below is generated by plot.py at 2017-09-18 07:50:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.66 Mbit/s

95th percentile per-packet one-way delay: 50.952 ms

Loss rate: 0.03%

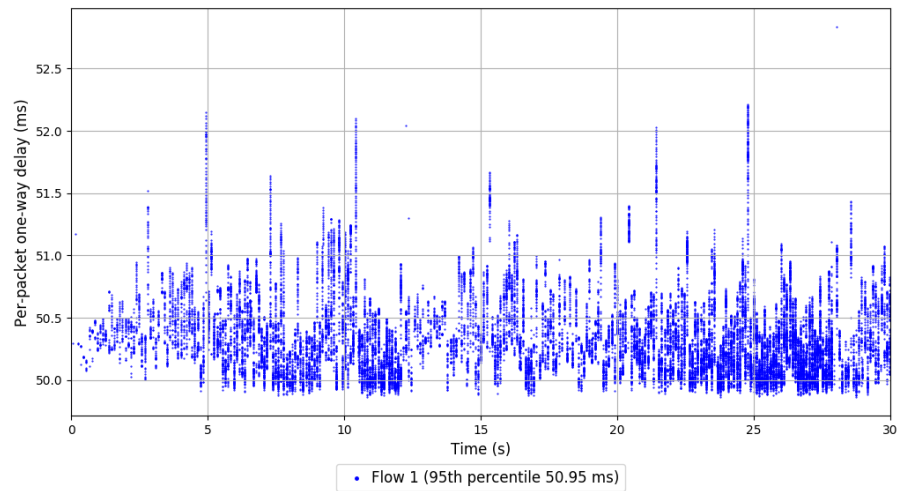
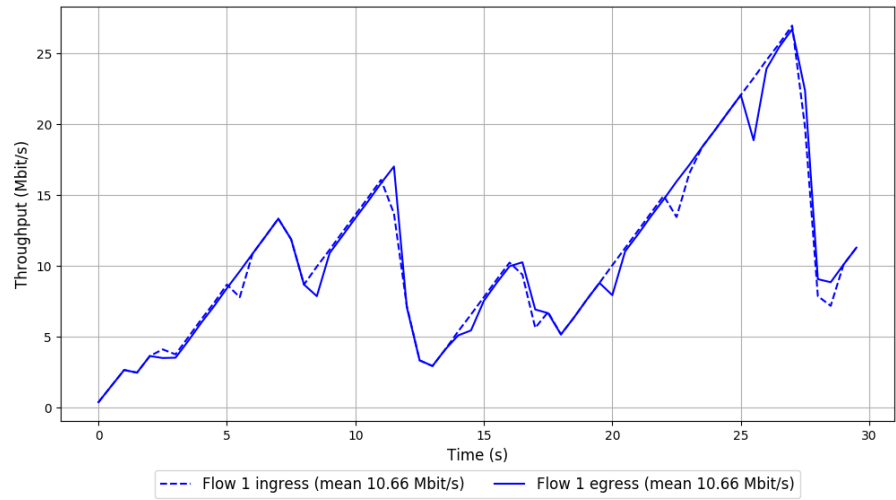
-- Flow 1:

Average throughput: 10.66 Mbit/s

95th percentile per-packet one-way delay: 50.952 ms

Loss rate: 0.03%

Run 10: Report of LEDBAT — Data Link

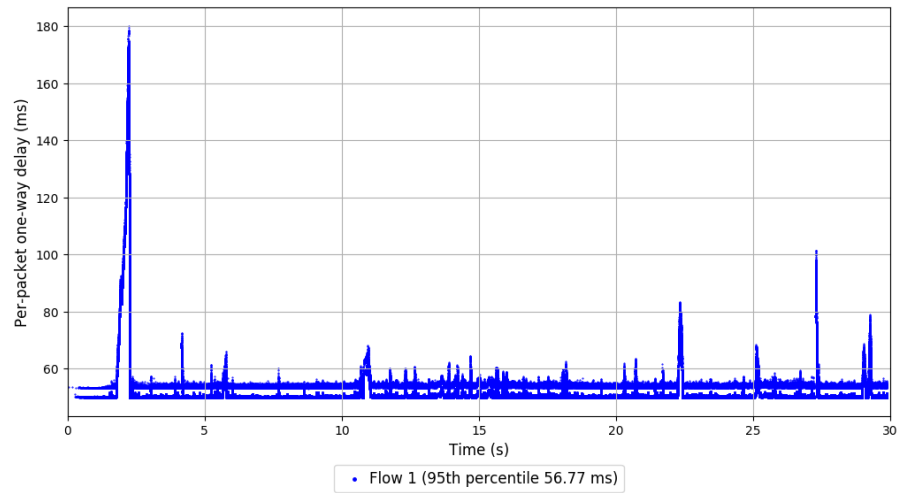
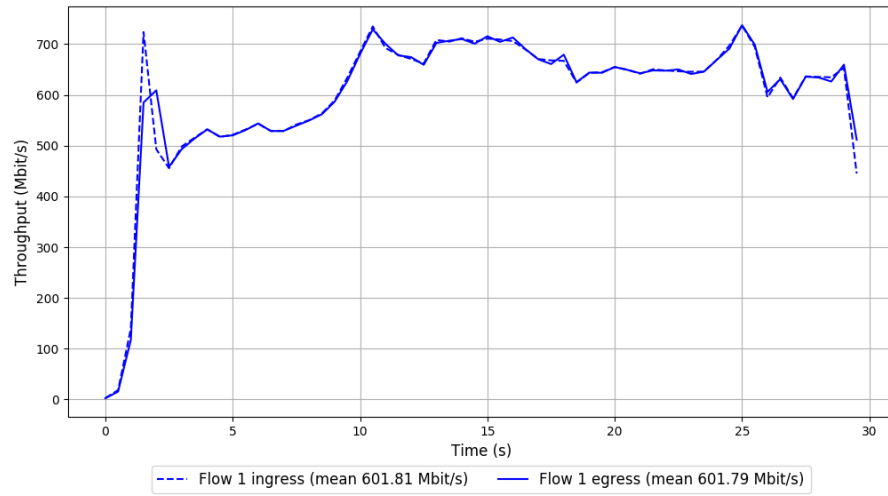


```
Run 1: Statistics of PCC

Start at: 2017-09-18 04:21:56
End at: 2017-09-18 04:22:26

# Below is generated by plot.py at 2017-09-18 08:01:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 601.79 Mbit/s
95th percentile per-packet one-way delay: 56.767 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 601.79 Mbit/s
95th percentile per-packet one-way delay: 56.767 ms
Loss rate: 0.00%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-09-18 04:33:35

End at: 2017-09-18 04:34:05

Below is generated by plot.py at 2017-09-18 08:01:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 609.63 Mbit/s

95th percentile per-packet one-way delay: 57.975 ms

Loss rate: 0.00%

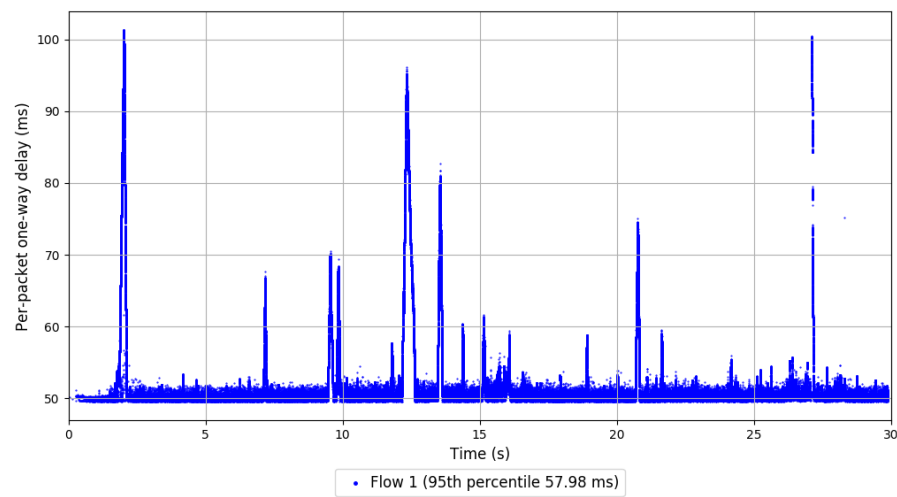
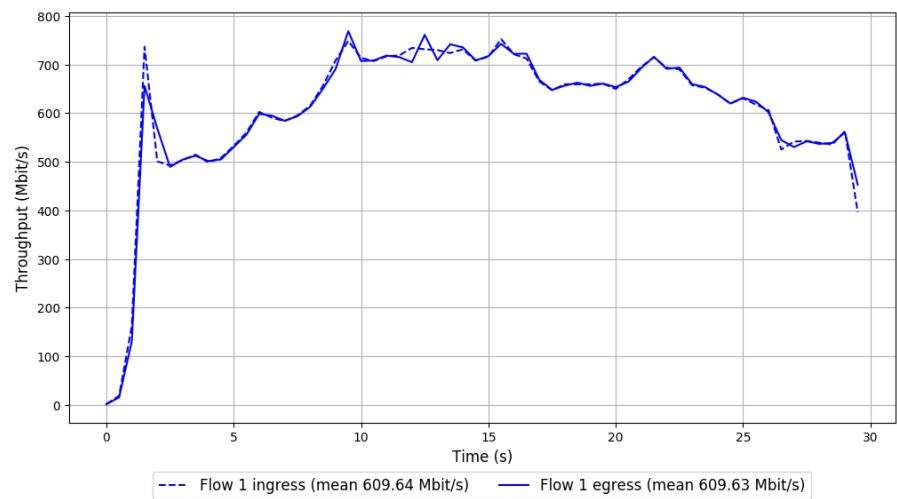
-- Flow 1:

Average throughput: 609.63 Mbit/s

95th percentile per-packet one-way delay: 57.975 ms

Loss rate: 0.00%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-09-18 04:44:44

End at: 2017-09-18 04:45:14

Below is generated by plot.py at 2017-09-18 08:01:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 599.59 Mbit/s

95th percentile per-packet one-way delay: 56.202 ms

Loss rate: 0.01%

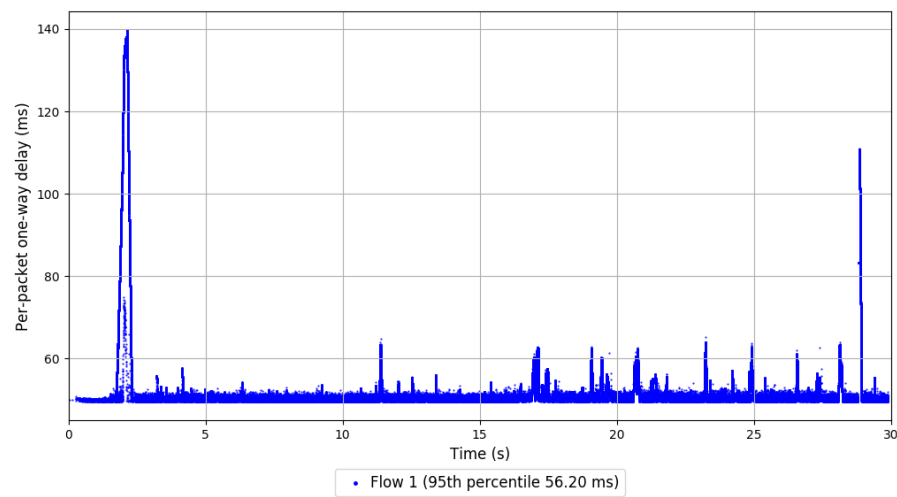
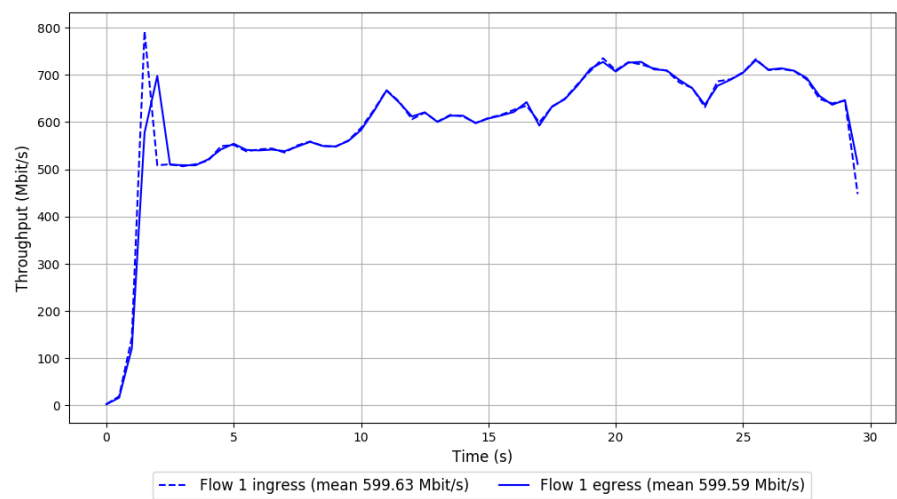
-- Flow 1:

Average throughput: 599.59 Mbit/s

95th percentile per-packet one-way delay: 56.202 ms

Loss rate: 0.01%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-09-18 04:56:13

End at: 2017-09-18 04:56:43

Below is generated by plot.py at 2017-09-18 08:01:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 632.58 Mbit/s

95th percentile per-packet one-way delay: 56.825 ms

Loss rate: 0.19%

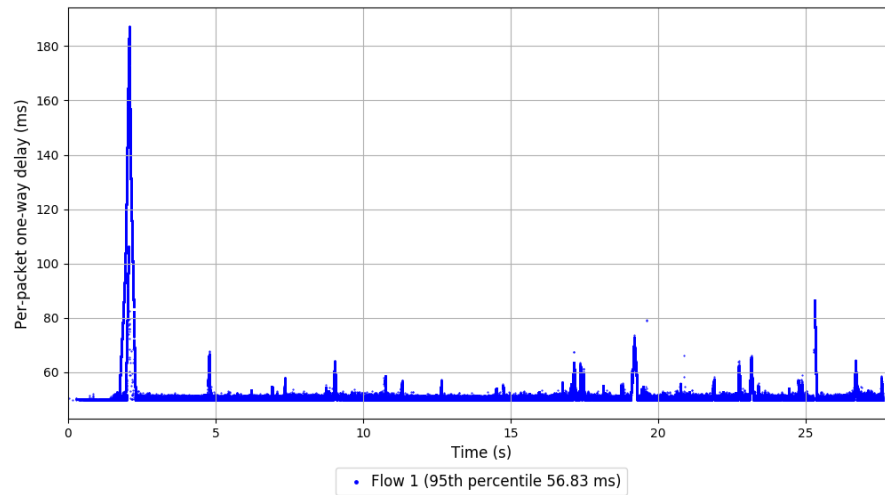
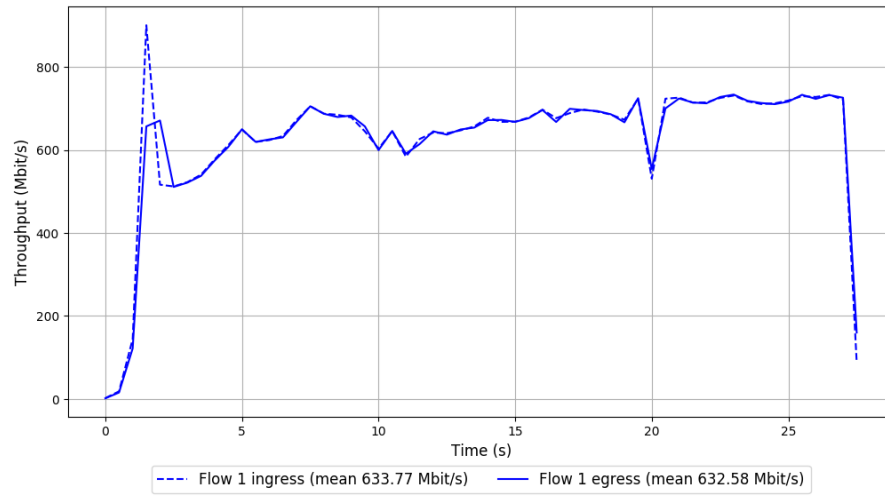
-- Flow 1:

Average throughput: 632.58 Mbit/s

95th percentile per-packet one-way delay: 56.825 ms

Loss rate: 0.19%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-09-18 05:07:34

End at: 2017-09-18 05:08:04

Below is generated by plot.py at 2017-09-18 08:02:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 662.35 Mbit/s

95th percentile per-packet one-way delay: 60.071 ms

Loss rate: 0.14%

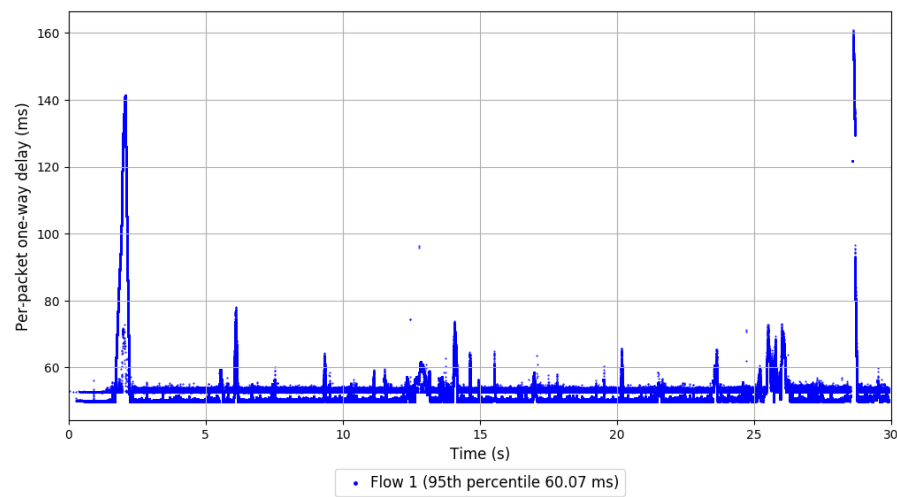
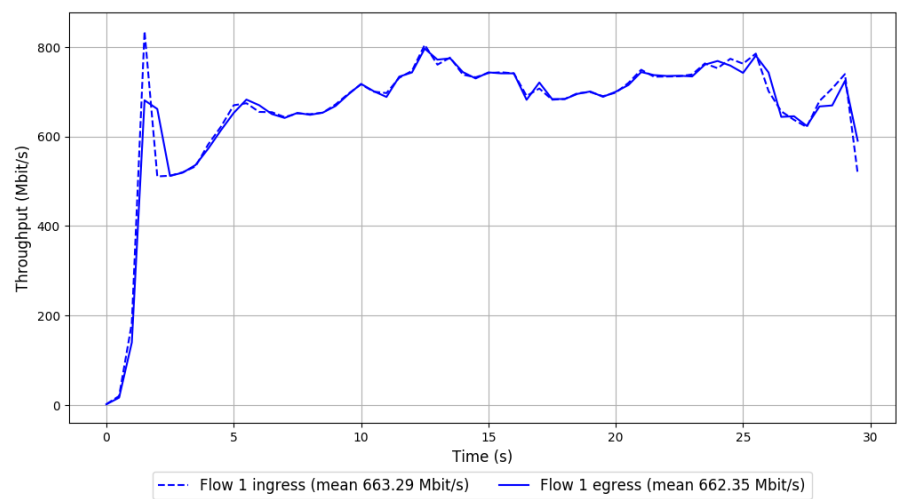
-- Flow 1:

Average throughput: 662.35 Mbit/s

95th percentile per-packet one-way delay: 60.071 ms

Loss rate: 0.14%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-09-18 05:19:19

End at: 2017-09-18 05:19:49

Below is generated by plot.py at 2017-09-18 08:02:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 657.21 Mbit/s

95th percentile per-packet one-way delay: 154.029 ms

Loss rate: 0.46%

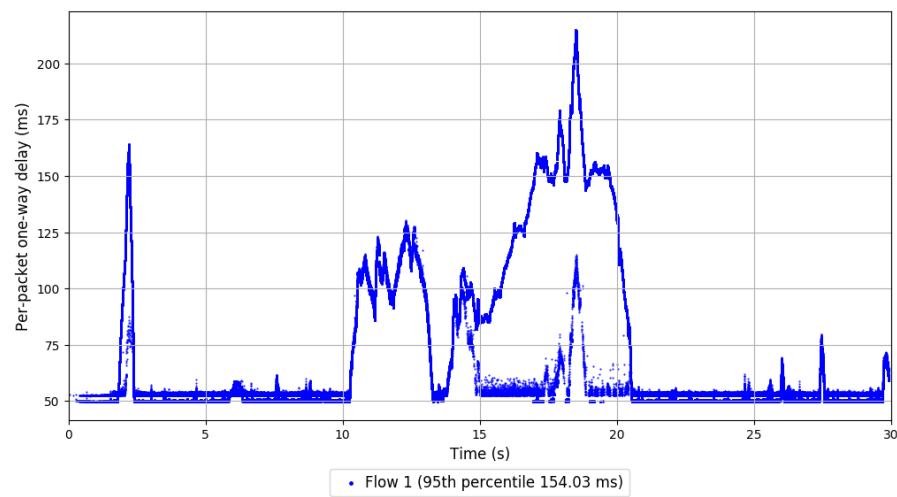
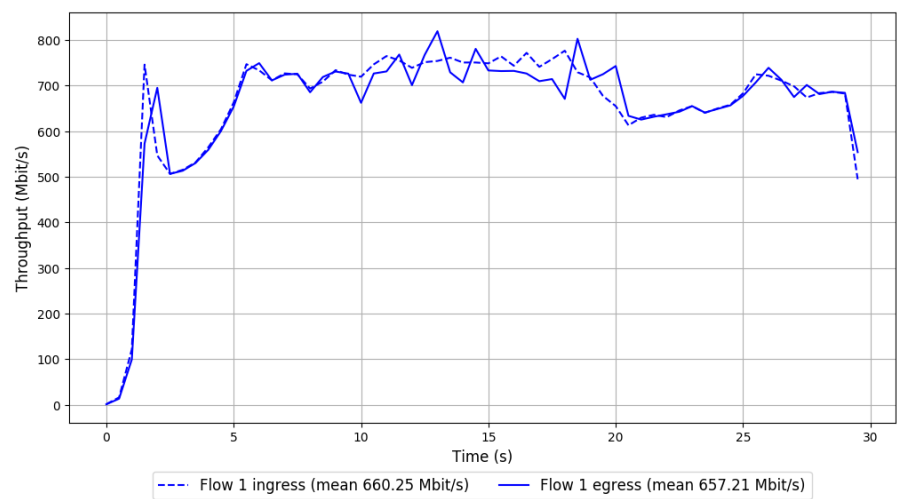
-- Flow 1:

Average throughput: 657.21 Mbit/s

95th percentile per-packet one-way delay: 154.029 ms

Loss rate: 0.46%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-09-18 05:30:35

End at: 2017-09-18 05:31:06

Below is generated by plot.py at 2017-09-18 08:02:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 659.18 Mbit/s

95th percentile per-packet one-way delay: 122.051 ms

Loss rate: 0.88%

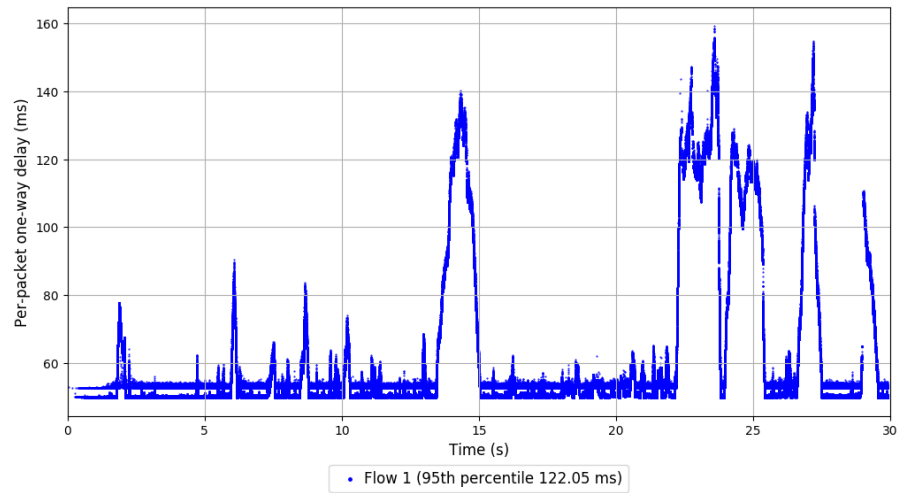
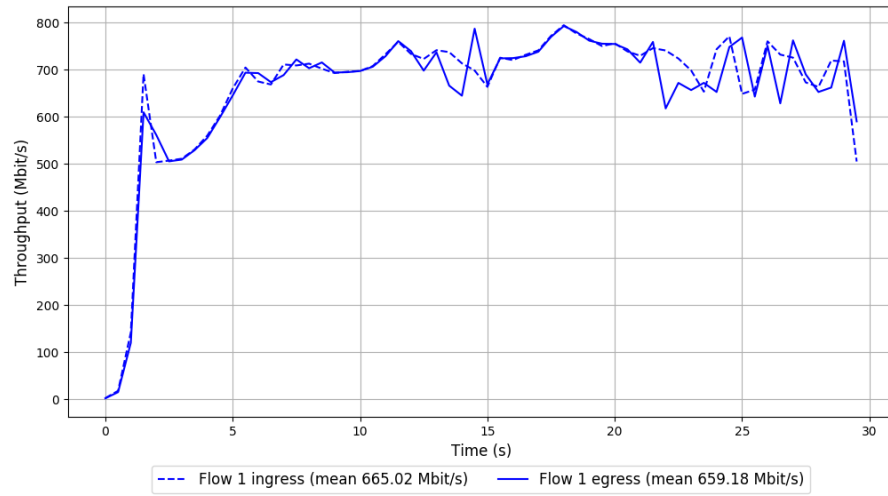
-- Flow 1:

Average throughput: 659.18 Mbit/s

95th percentile per-packet one-way delay: 122.051 ms

Loss rate: 0.88%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-09-18 05:41:56

End at: 2017-09-18 05:42:26

Below is generated by plot.py at 2017-09-18 08:02:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 559.35 Mbit/s

95th percentile per-packet one-way delay: 56.639 ms

Loss rate: 0.00%

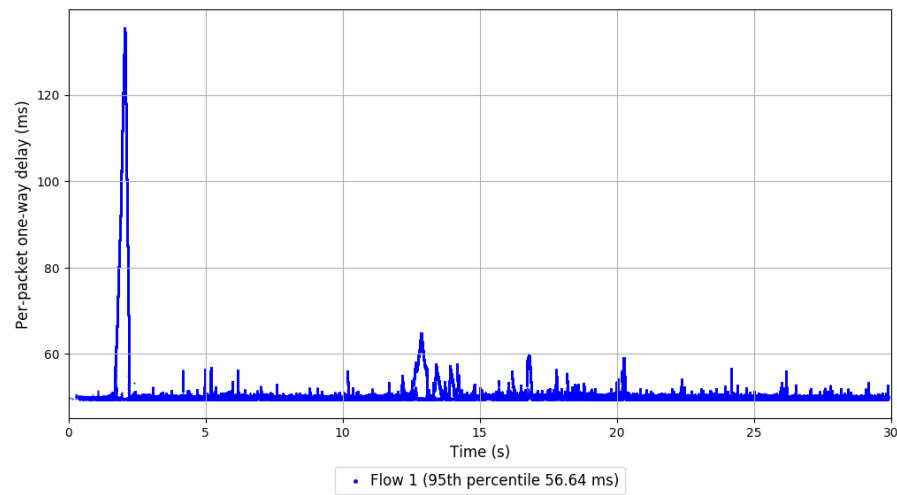
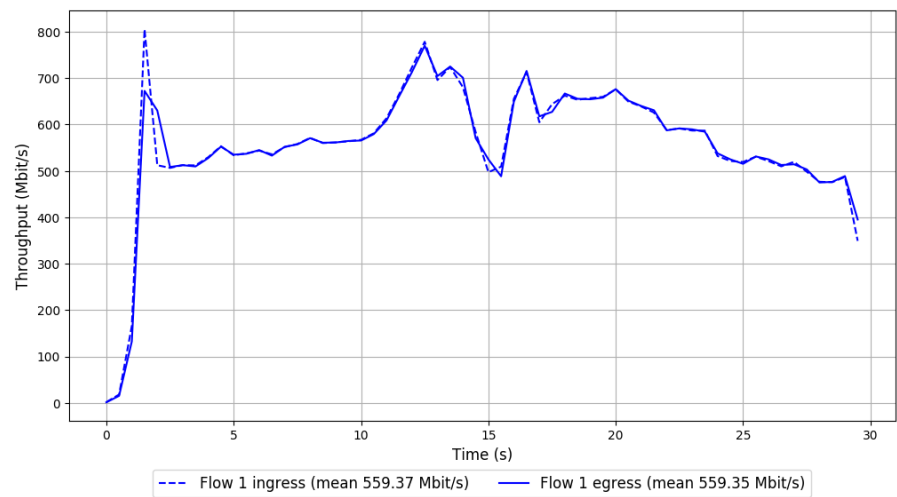
-- Flow 1:

Average throughput: 559.35 Mbit/s

95th percentile per-packet one-way delay: 56.639 ms

Loss rate: 0.00%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-09-18 05:53:20

End at: 2017-09-18 05:53:50

Below is generated by plot.py at 2017-09-18 08:12:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 627.32 Mbit/s

95th percentile per-packet one-way delay: 53.479 ms

Loss rate: 0.00%

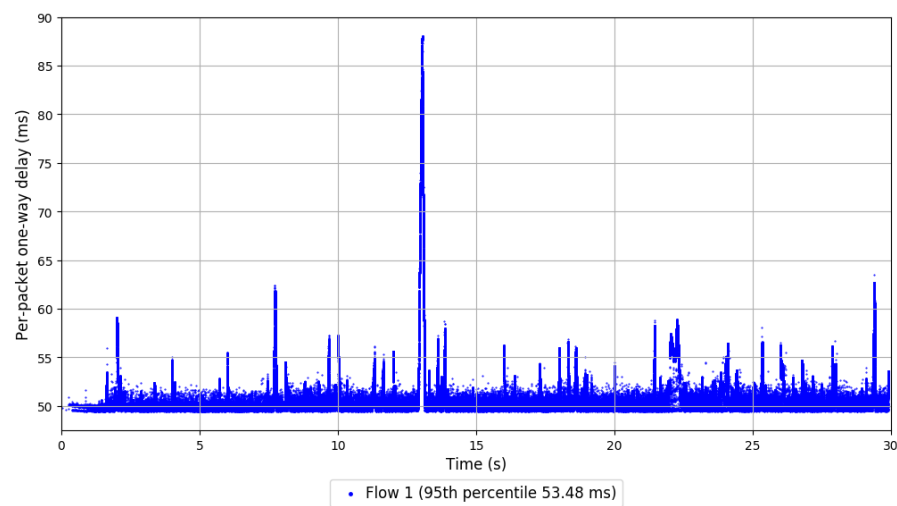
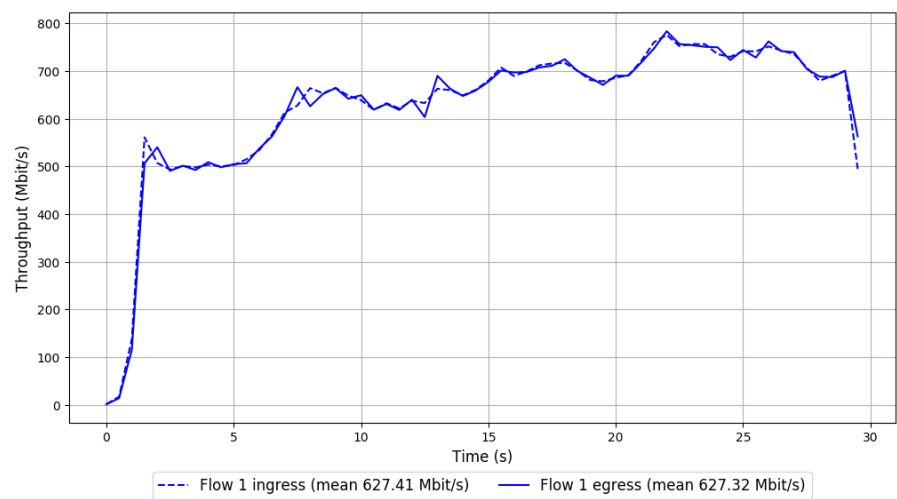
-- Flow 1:

Average throughput: 627.32 Mbit/s

95th percentile per-packet one-way delay: 53.479 ms

Loss rate: 0.00%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-09-18 06:04:40

End at: 2017-09-18 06:05:10

Below is generated by plot.py at 2017-09-18 08:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 665.69 Mbit/s

95th percentile per-packet one-way delay: 59.213 ms

Loss rate: 0.05%

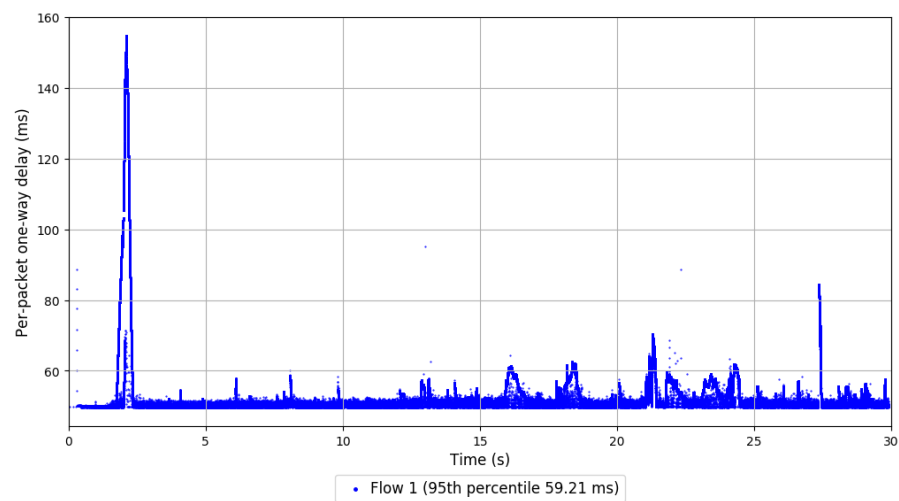
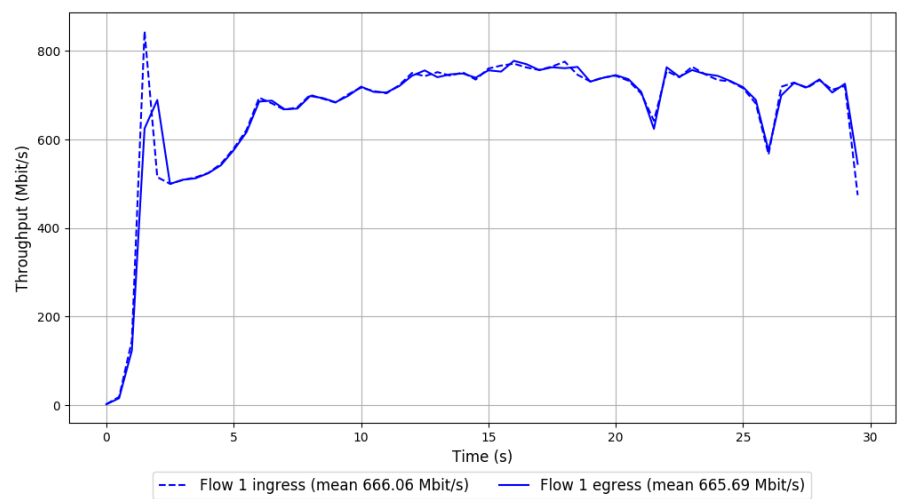
-- Flow 1:

Average throughput: 665.69 Mbit/s

95th percentile per-packet one-way delay: 59.213 ms

Loss rate: 0.05%

Run 10: Report of PCC — Data Link

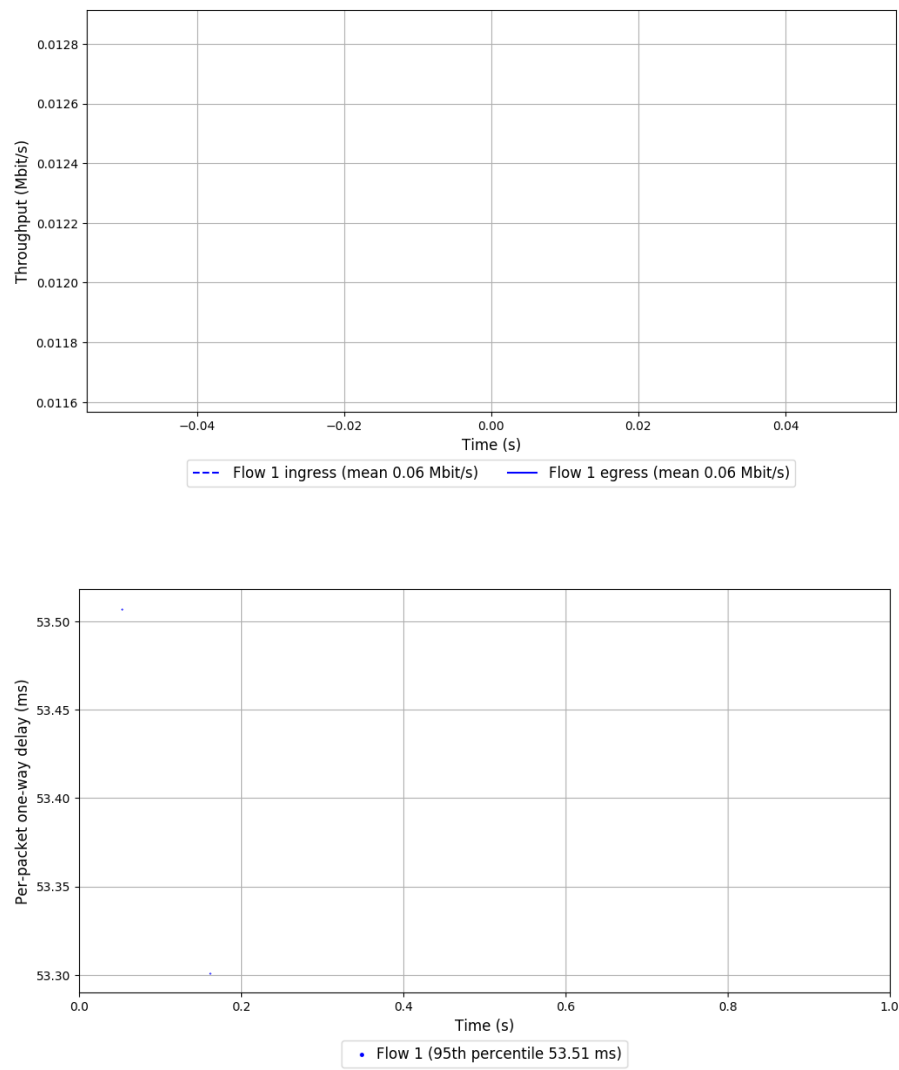


Run 1: Statistics of QUIC Cubic

Start at: 2017-09-18 04:28:21

End at: 2017-09-18 04:28:51

Run 1: Report of QUIC Cubic — Data Link

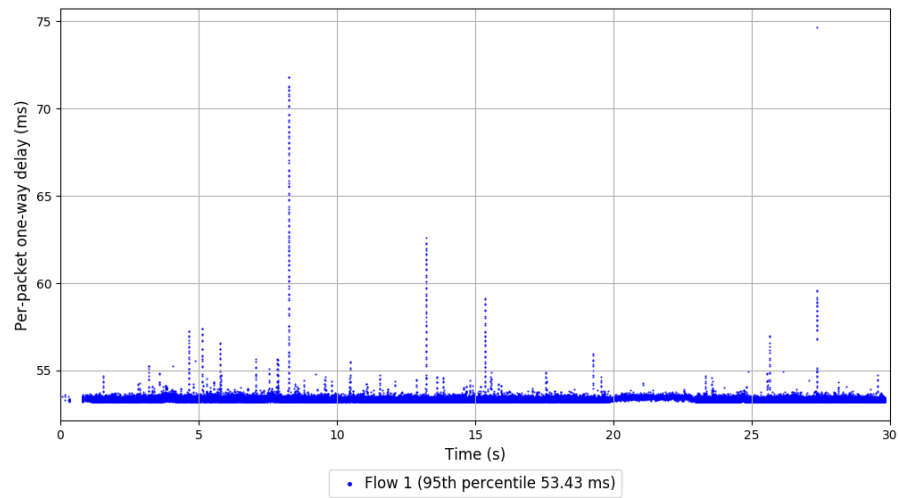
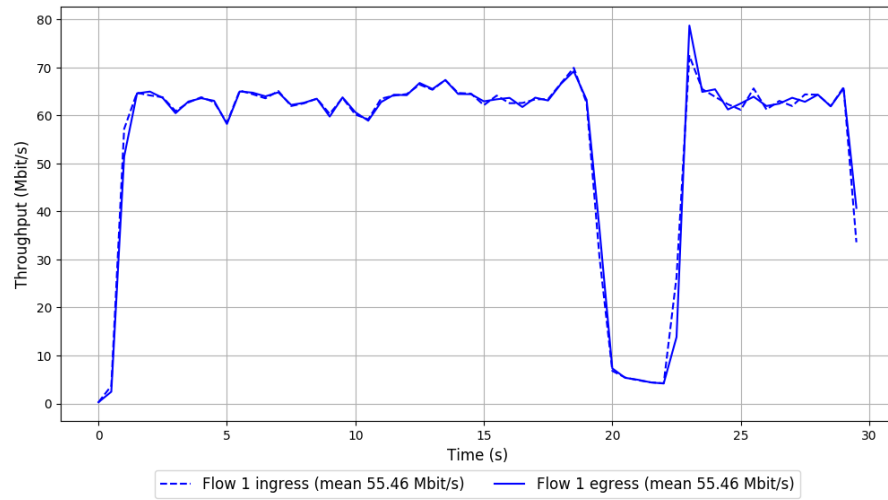


```
Run 2: Statistics of QUIC Cubic

Start at: 2017-09-18 04:39:25
End at: 2017-09-18 04:39:55

# Below is generated by plot.py at 2017-09-18 08:13:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.46 Mbit/s
95th percentile per-packet one-way delay: 53.433 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.46 Mbit/s
95th percentile per-packet one-way delay: 53.433 ms
Loss rate: 0.00%
```

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-09-18 04:51:02

End at: 2017-09-18 04:51:32

Below is generated by plot.py at 2017-09-18 08:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.56 Mbit/s

95th percentile per-packet one-way delay: 49.867 ms

Loss rate: 0.00%

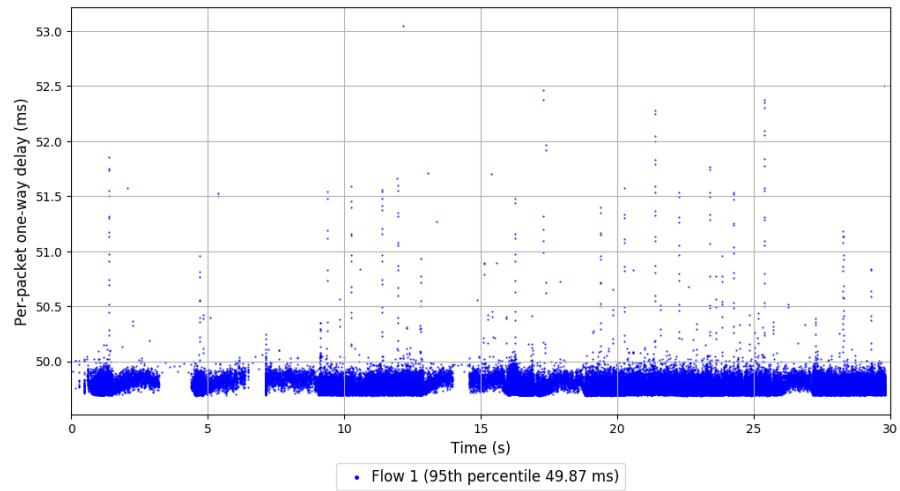
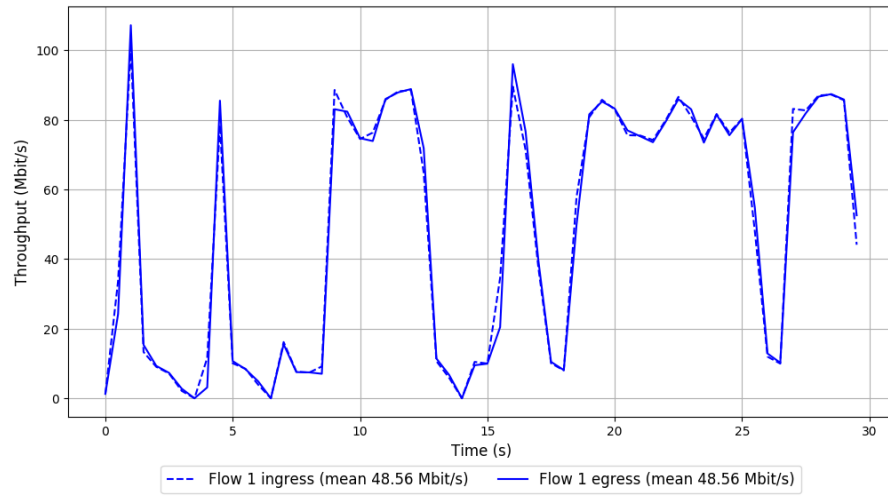
-- Flow 1:

Average throughput: 48.56 Mbit/s

95th percentile per-packet one-way delay: 49.867 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-09-18 05:02:16

End at: 2017-09-18 05:02:46

Below is generated by plot.py at 2017-09-18 08:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.71 Mbit/s

95th percentile per-packet one-way delay: 53.454 ms

Loss rate: 0.00%

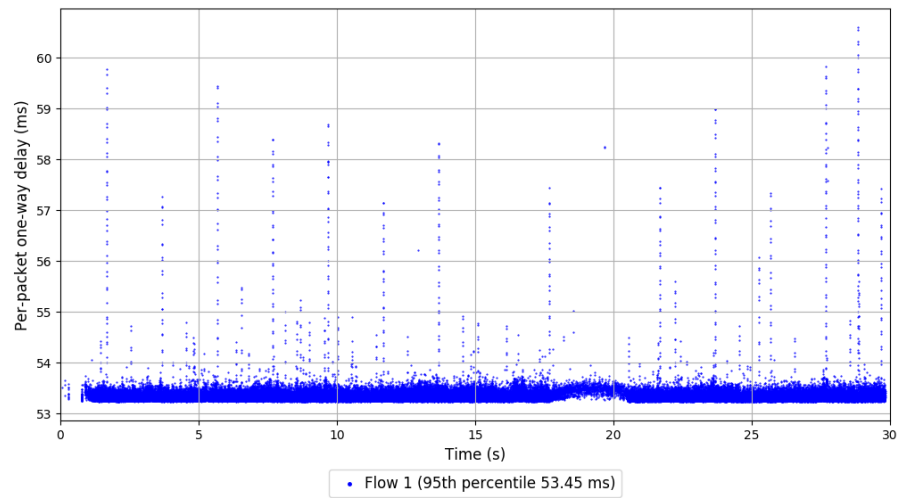
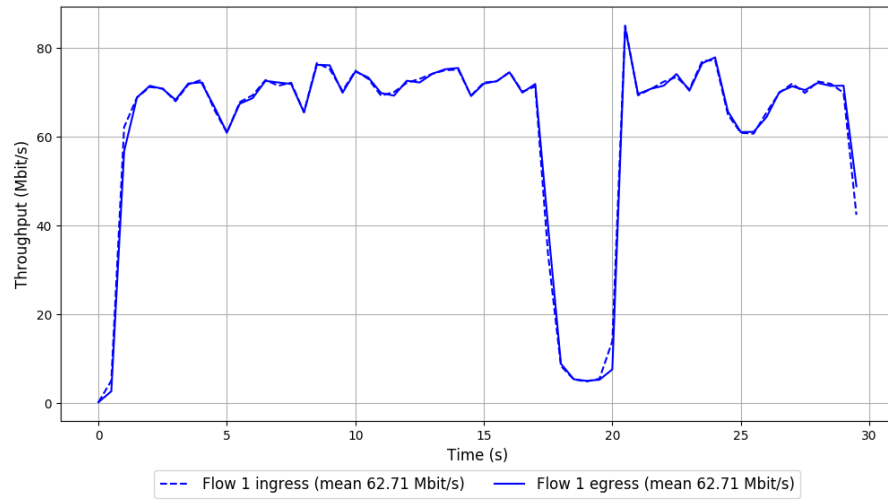
-- Flow 1:

Average throughput: 62.71 Mbit/s

95th percentile per-packet one-way delay: 53.454 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link

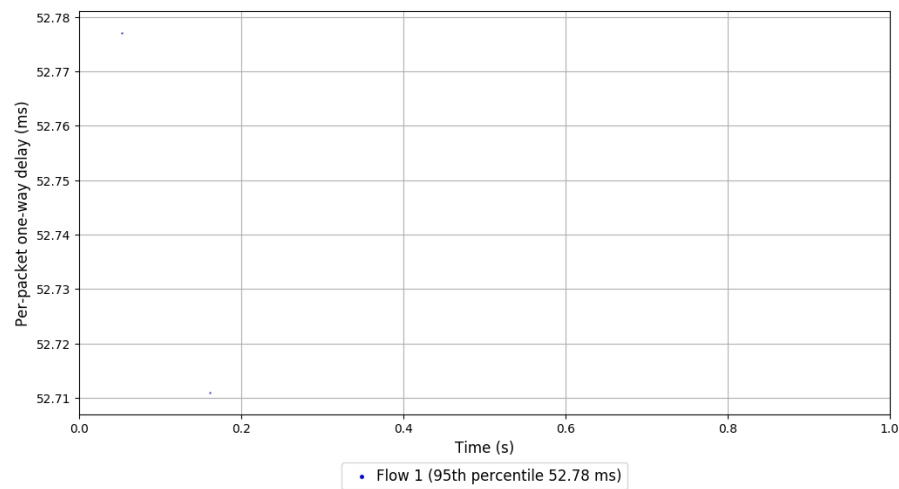
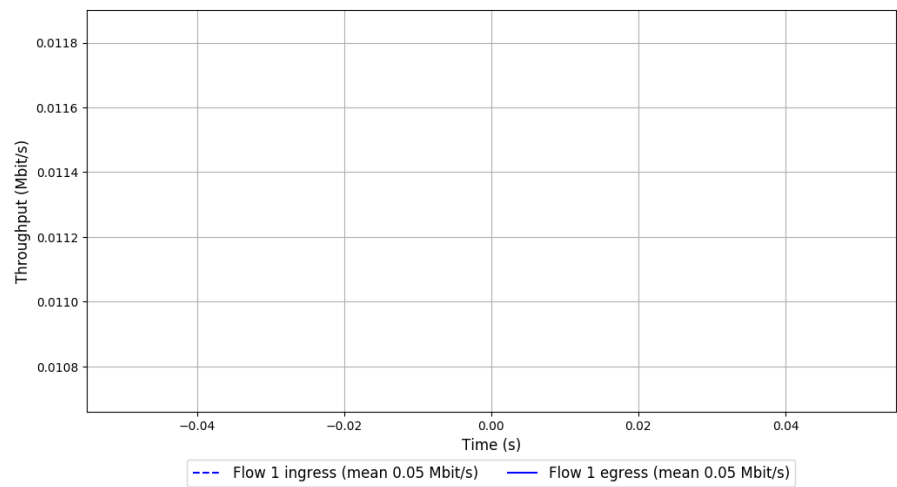


Run 5: Statistics of QUIC Cubic

Start at: 2017-09-18 05:14:02

End at: 2017-09-18 05:14:32

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-09-18 05:25:19

End at: 2017-09-18 05:25:49

Below is generated by plot.py at 2017-09-18 08:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.75 Mbit/s

95th percentile per-packet one-way delay: 53.340 ms

Loss rate: 0.00%

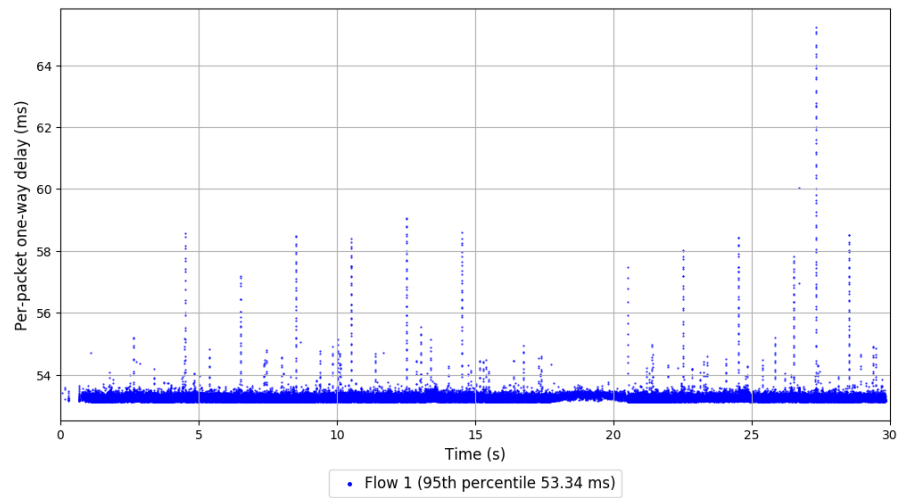
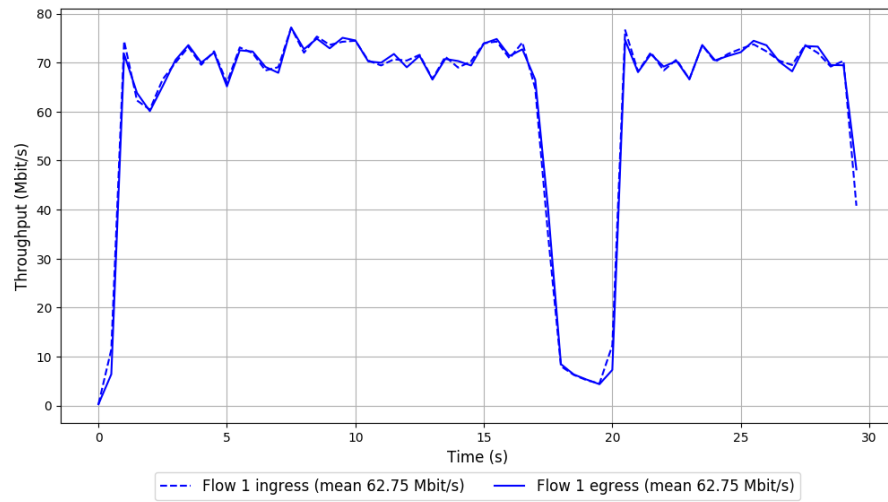
-- Flow 1:

Average throughput: 62.75 Mbit/s

95th percentile per-packet one-way delay: 53.340 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-09-18 05:36:35

End at: 2017-09-18 05:37:05

Below is generated by plot.py at 2017-09-18 08:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.10 Mbit/s

95th percentile per-packet one-way delay: 49.585 ms

Loss rate: 0.00%

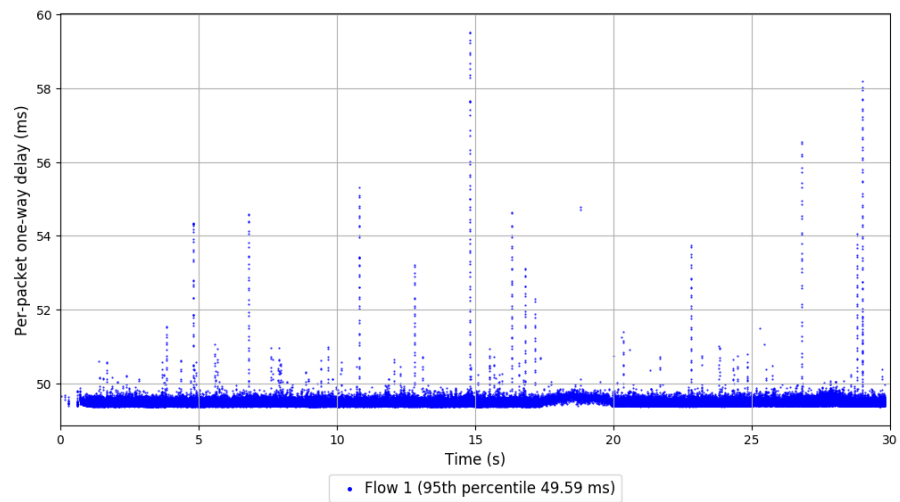
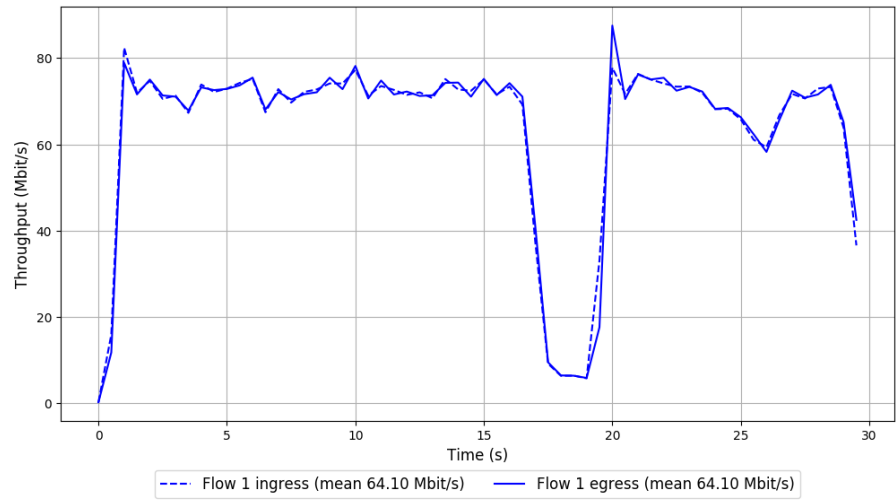
-- Flow 1:

Average throughput: 64.10 Mbit/s

95th percentile per-packet one-way delay: 49.585 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-09-18 05:47:56

End at: 2017-09-18 05:48:26

Below is generated by plot.py at 2017-09-18 08:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.51 Mbit/s

95th percentile per-packet one-way delay: 49.933 ms

Loss rate: 0.00%

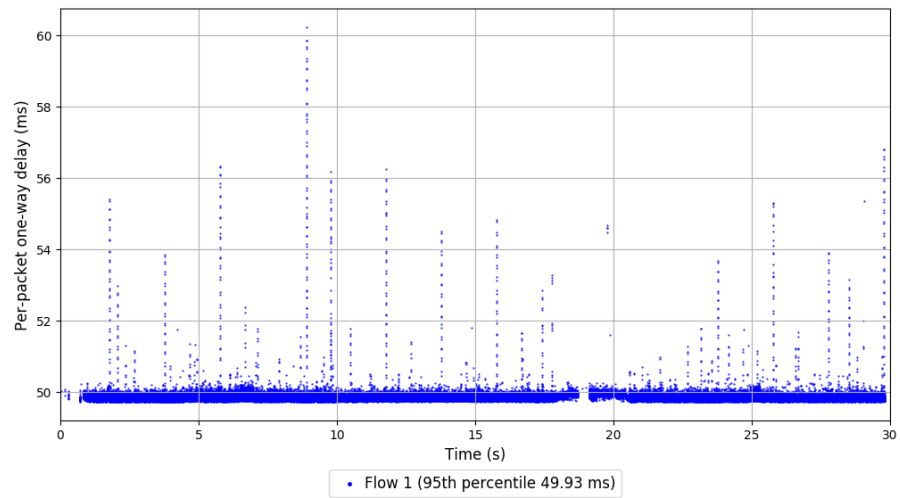
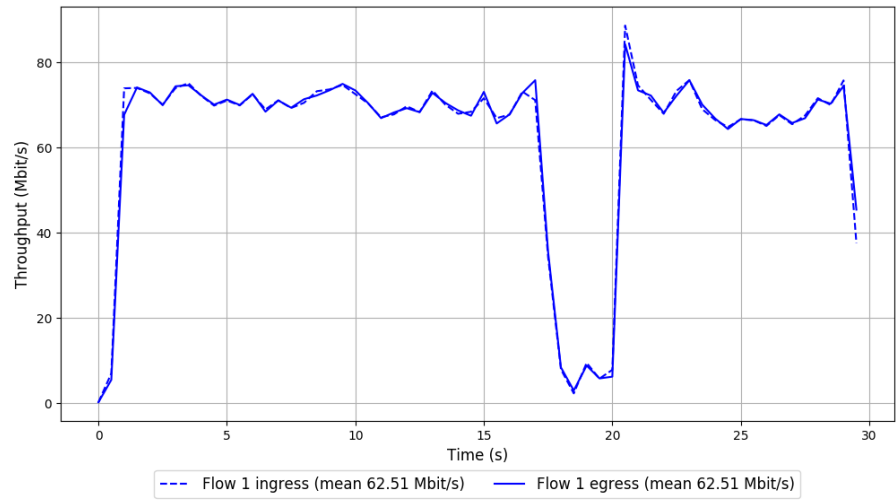
-- Flow 1:

Average throughput: 62.51 Mbit/s

95th percentile per-packet one-way delay: 49.933 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-09-18 05:59:21

End at: 2017-09-18 05:59:51

Below is generated by plot.py at 2017-09-18 08:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.21 Mbit/s

95th percentile per-packet one-way delay: 49.943 ms

Loss rate: 0.00%

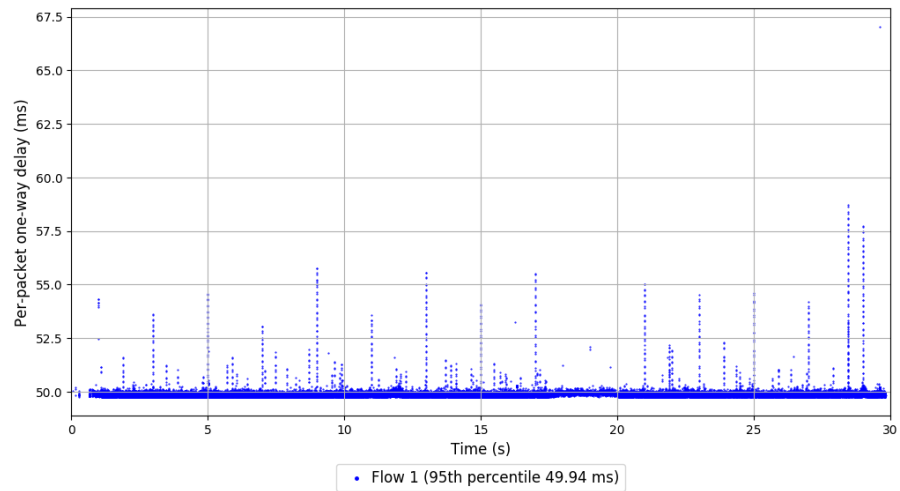
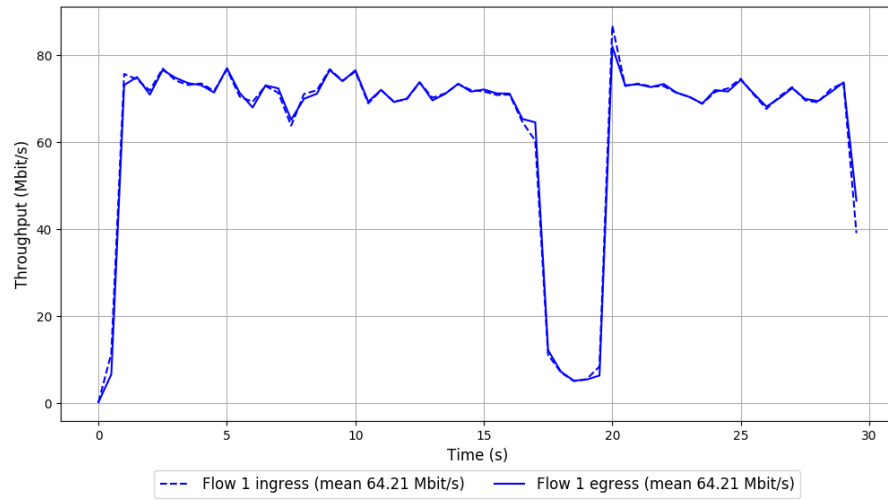
-- Flow 1:

Average throughput: 64.21 Mbit/s

95th percentile per-packet one-way delay: 49.943 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

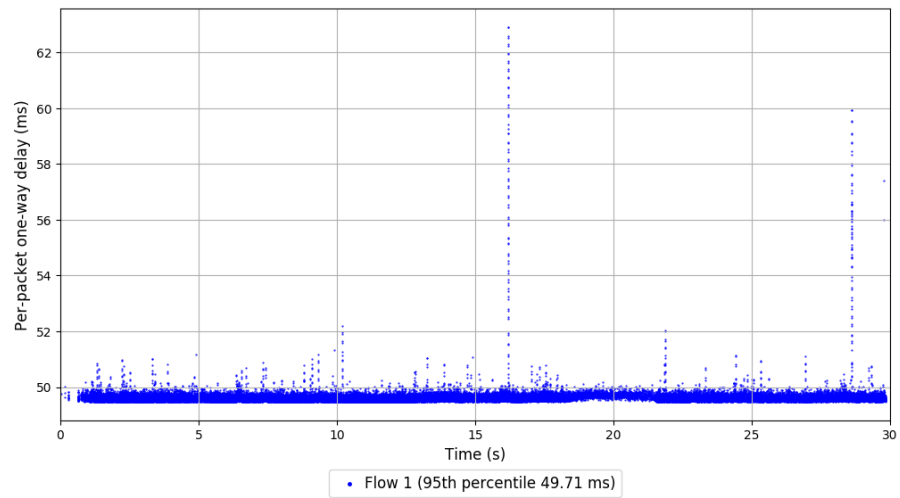
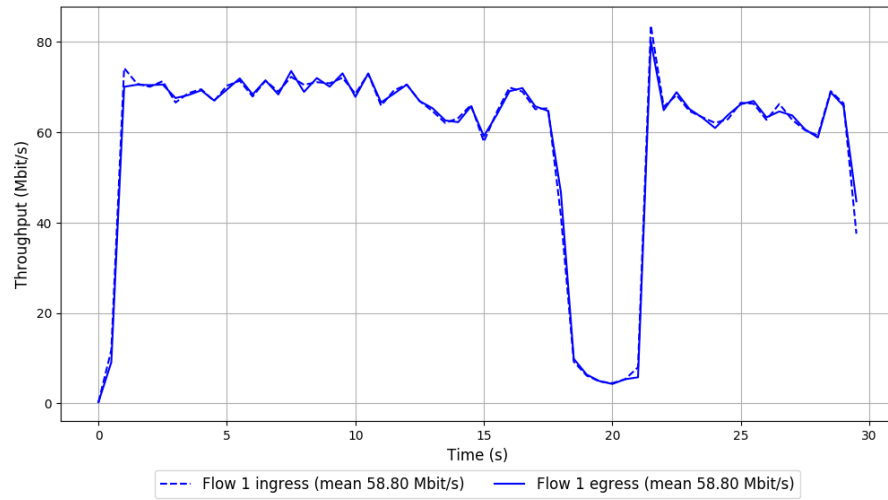


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-09-18 06:10:43
End at: 2017-09-18 06:11:13

# Below is generated by plot.py at 2017-09-18 08:13:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.80 Mbit/s
95th percentile per-packet one-way delay: 49.709 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.80 Mbit/s
95th percentile per-packet one-way delay: 49.709 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

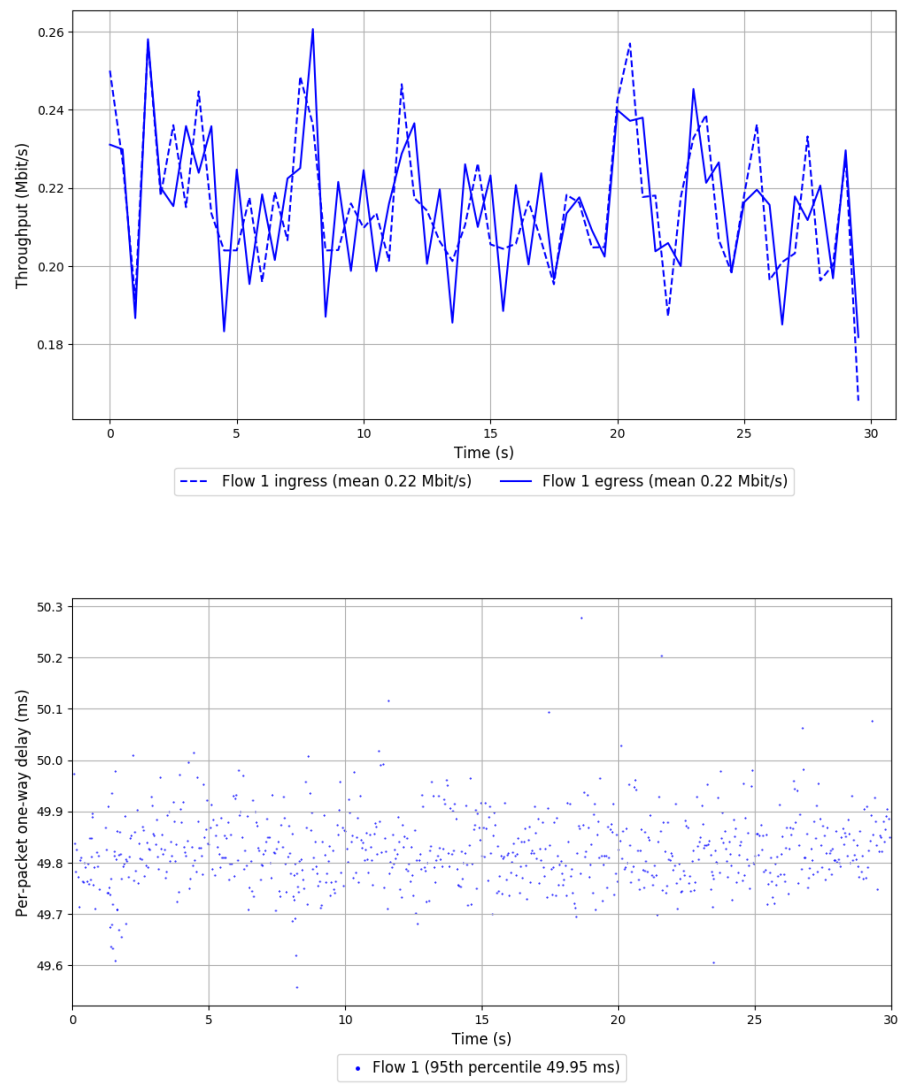


```
Run 1: Statistics of SCReAM

Start at: 2017-09-18 04:24:32
End at: 2017-09-18 04:25:02

# Below is generated by plot.py at 2017-09-18 08:13:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.951 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.951 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

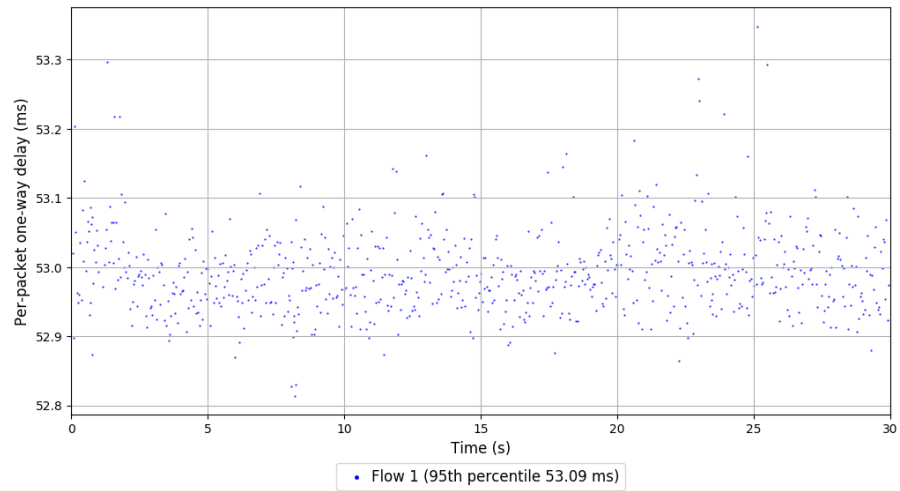
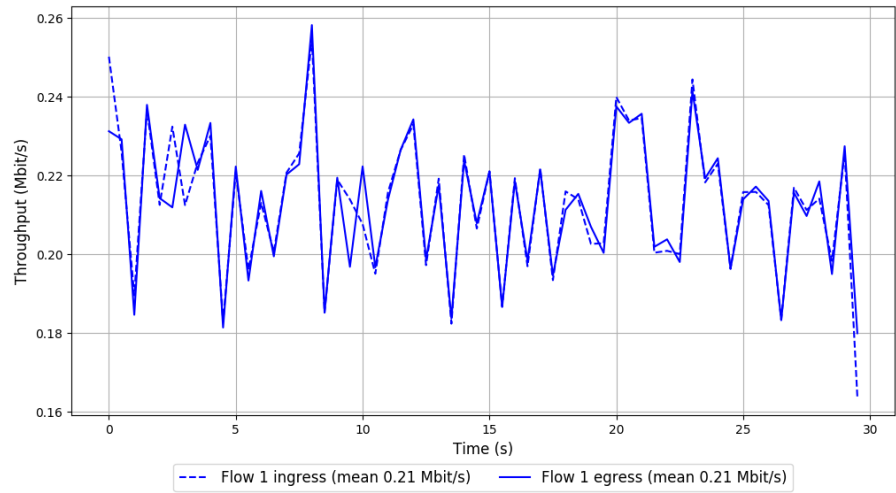


```
Run 2: Statistics of SCReAM

Start at: 2017-09-18 04:36:00
End at: 2017-09-18 04:36:30

# Below is generated by plot.py at 2017-09-18 08:13:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.094 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.094 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-09-18 04:47:19

End at: 2017-09-18 04:47:49

Below is generated by plot.py at 2017-09-18 08:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.122 ms

Loss rate: 0.00%

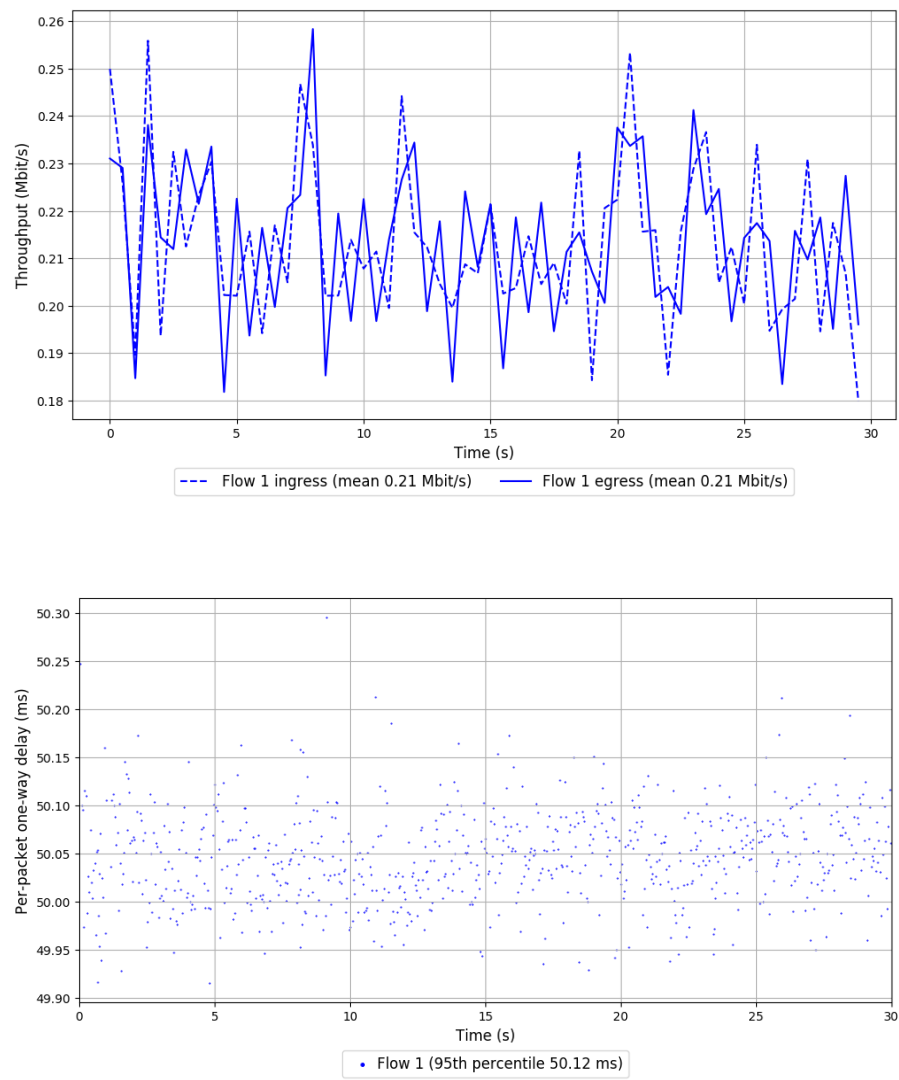
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.122 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-09-18 04:58:50

End at: 2017-09-18 04:59:20

Below is generated by plot.py at 2017-09-18 08:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.057 ms

Loss rate: 0.00%

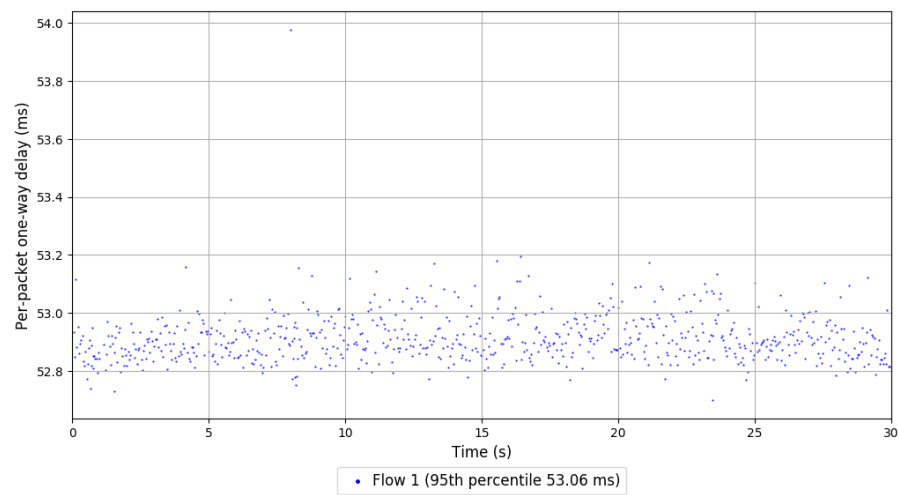
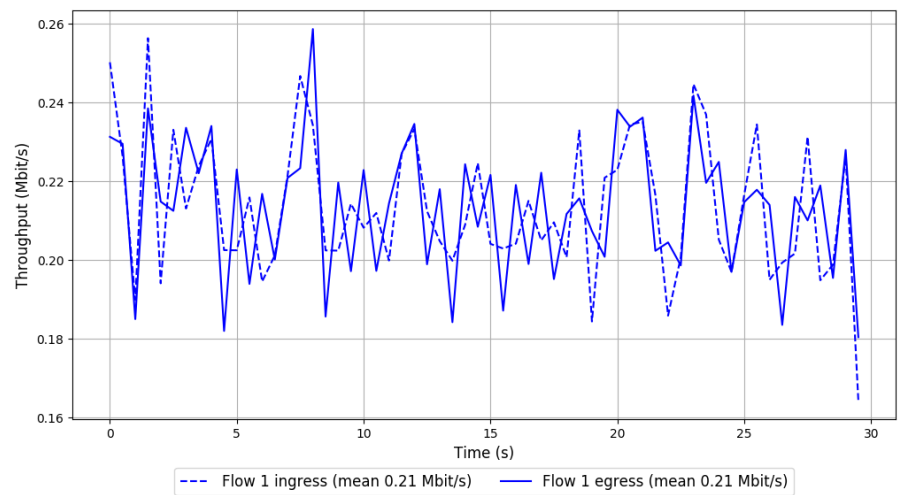
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.057 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

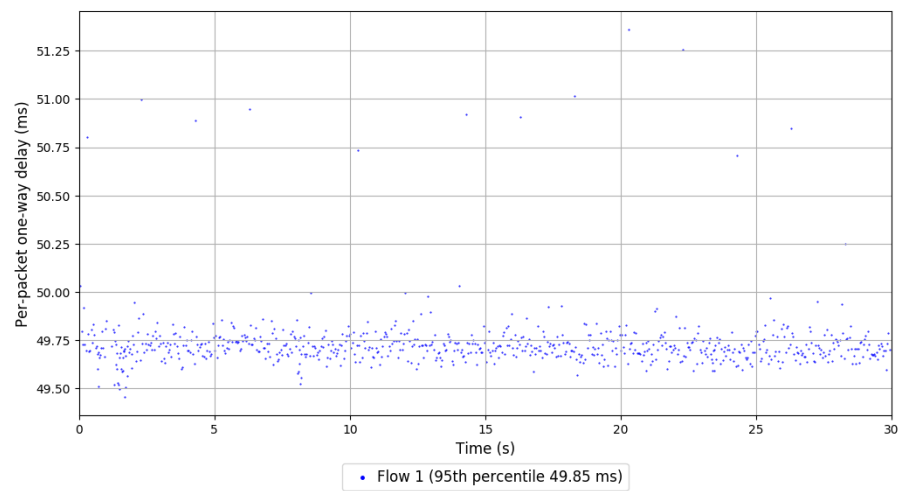
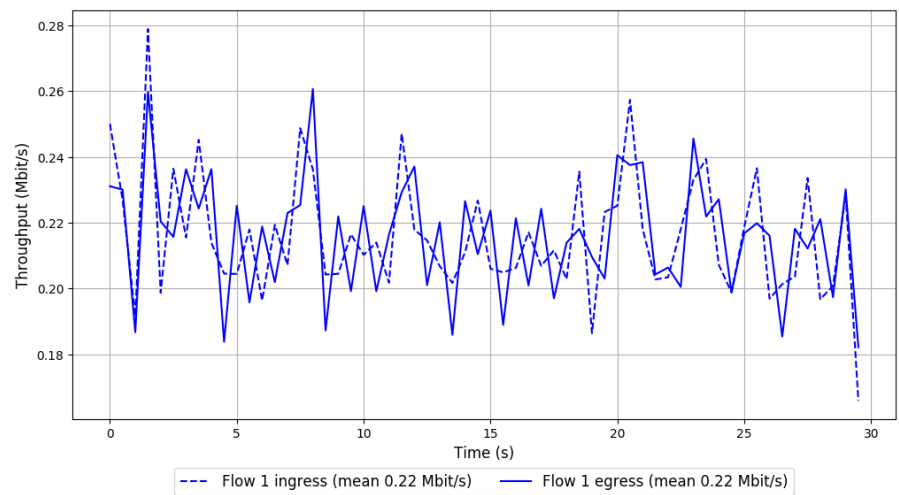


```
Run 5: Statistics of SCReAM

Start at: 2017-09-18 05:10:12
End at: 2017-09-18 05:10:42

# Below is generated by plot.py at 2017-09-18 08:13:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.852 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.852 ms
Loss rate: 0.00%
```

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-09-18 05:21:56

End at: 2017-09-18 05:22:26

Below is generated by plot.py at 2017-09-18 08:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.617 ms

Loss rate: 0.00%

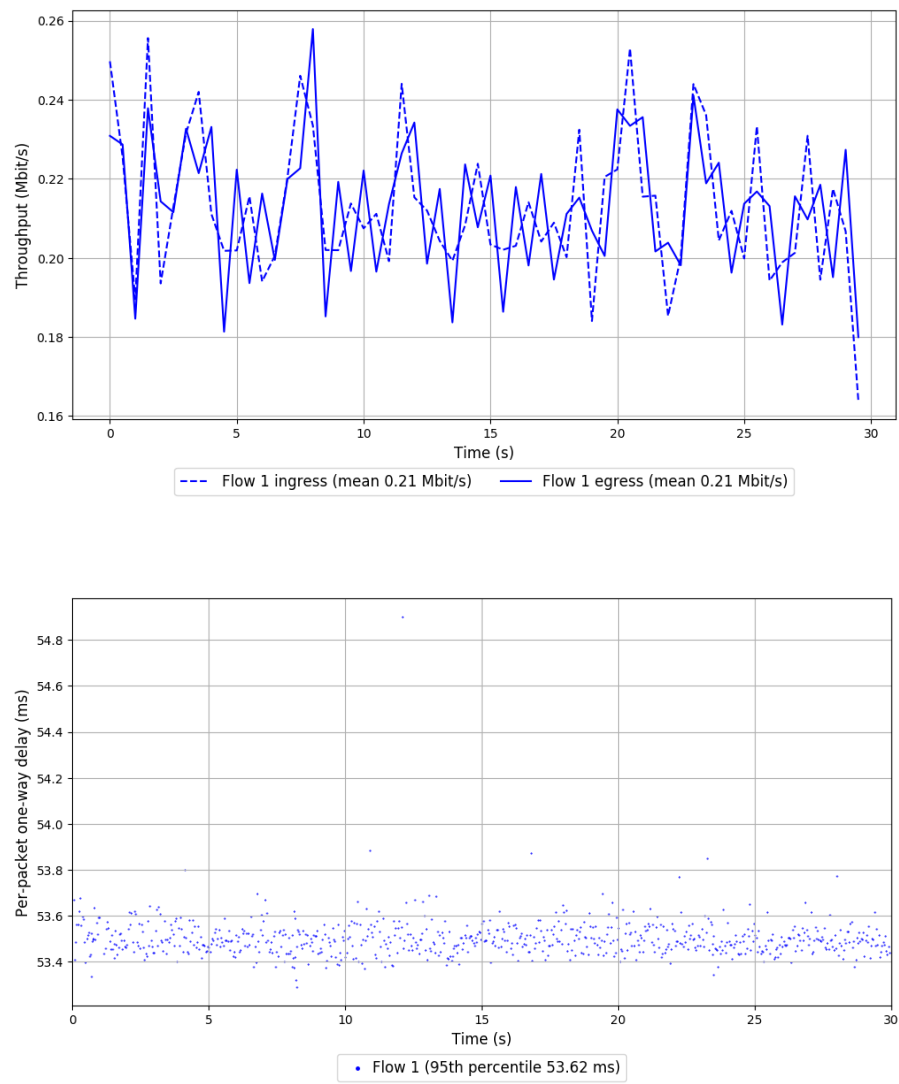
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.617 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-09-18 05:33:11

End at: 2017-09-18 05:33:41

Below is generated by plot.py at 2017-09-18 08:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.828 ms

Loss rate: 0.00%

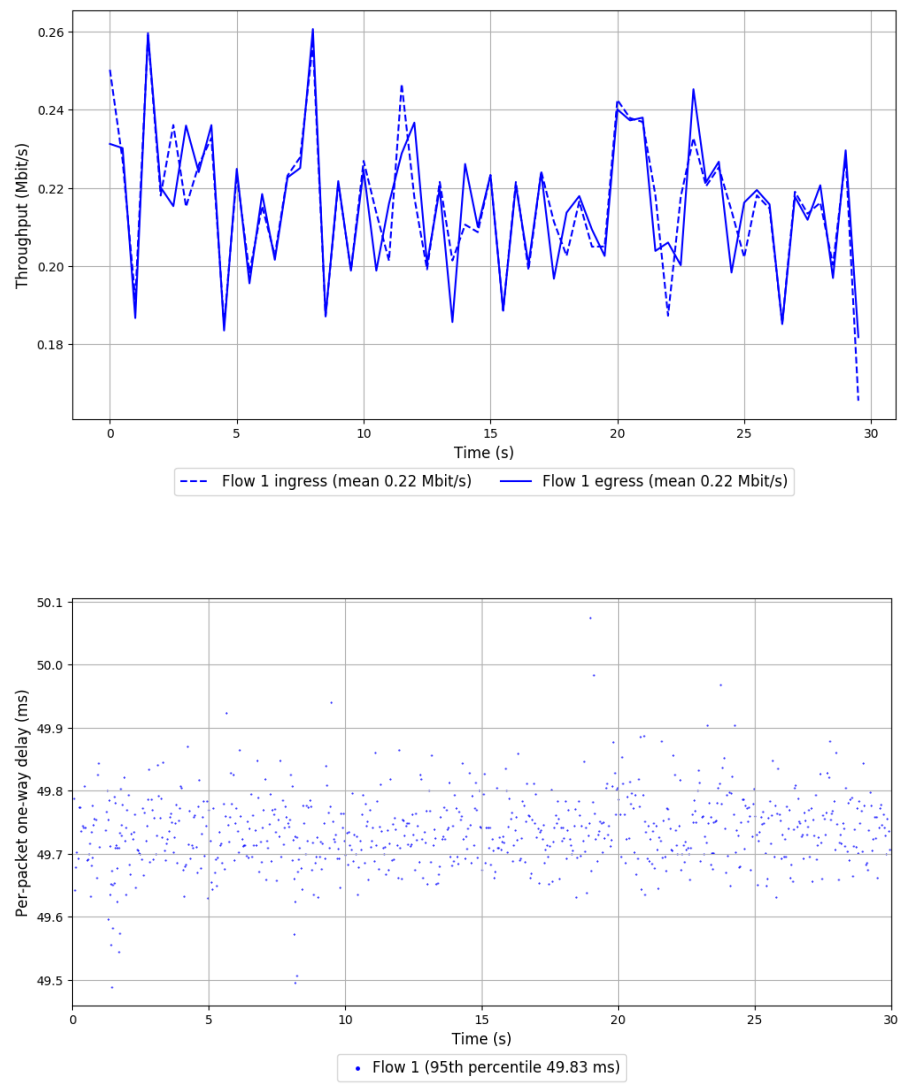
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.828 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-09-18 05:44:32

End at: 2017-09-18 05:45:02

Below is generated by plot.py at 2017-09-18 08:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 49.857 ms

Loss rate: 0.00%

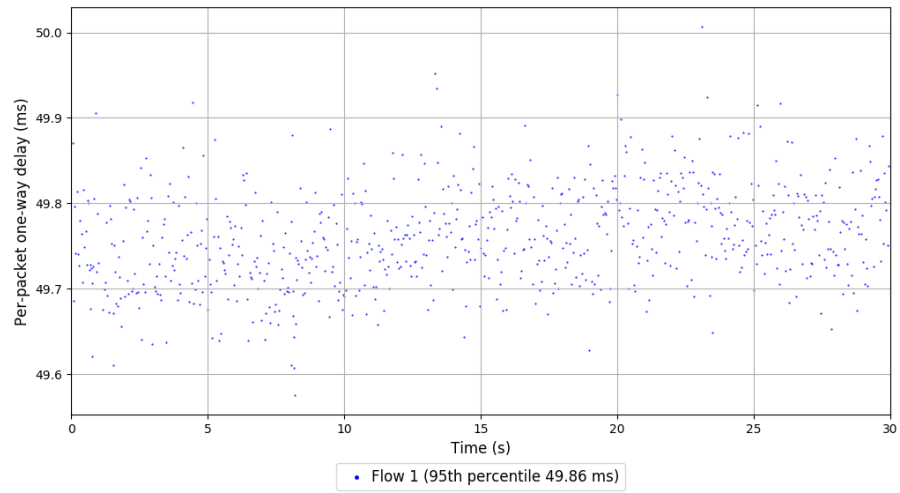
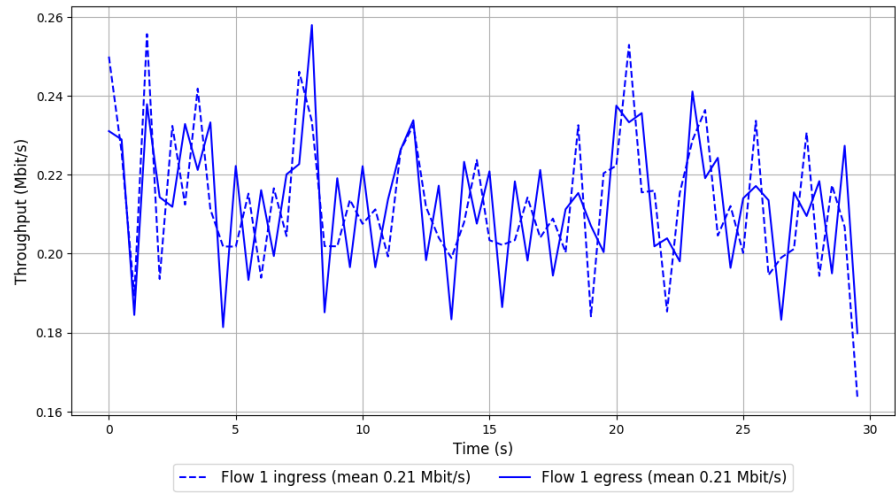
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 49.857 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-09-18 05:55:57

End at: 2017-09-18 05:56:27

Below is generated by plot.py at 2017-09-18 08:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.026 ms

Loss rate: 0.00%

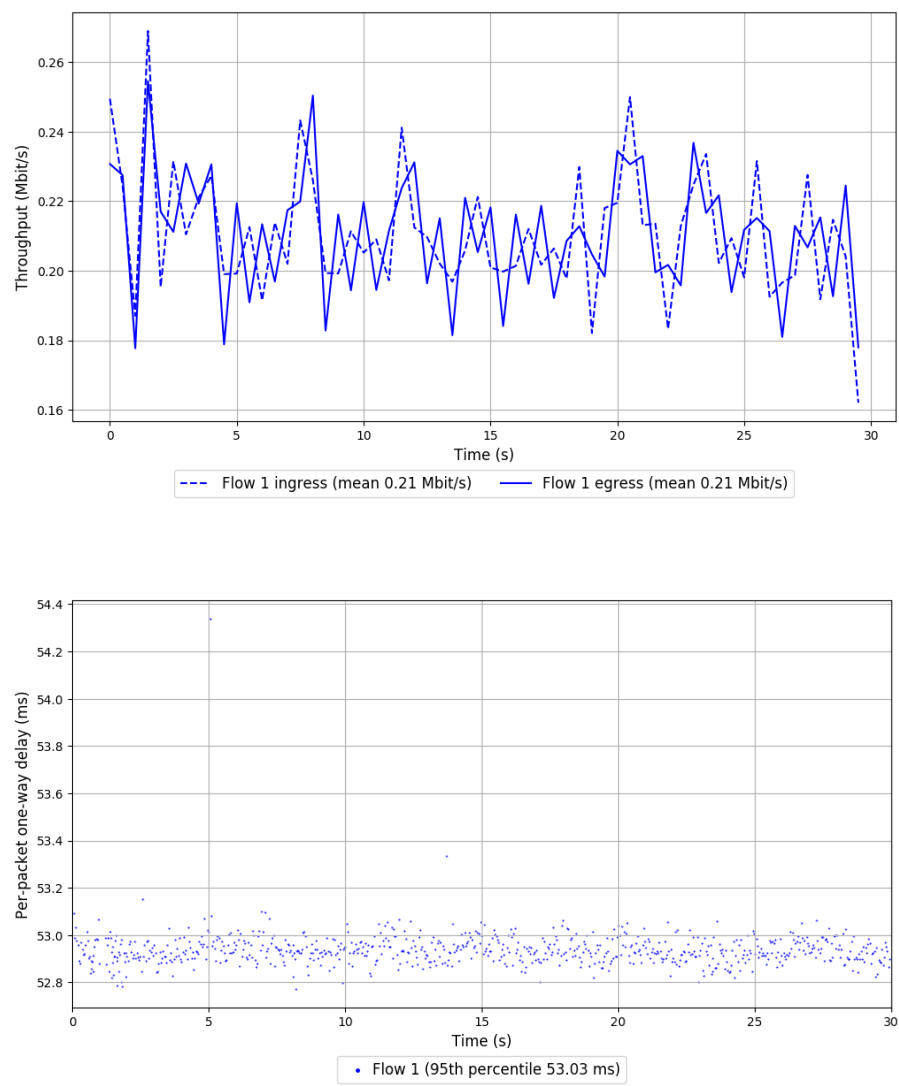
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.026 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-09-18 06:07:19

End at: 2017-09-18 06:07:49

Below is generated by plot.py at 2017-09-18 08:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.111 ms

Loss rate: 0.00%

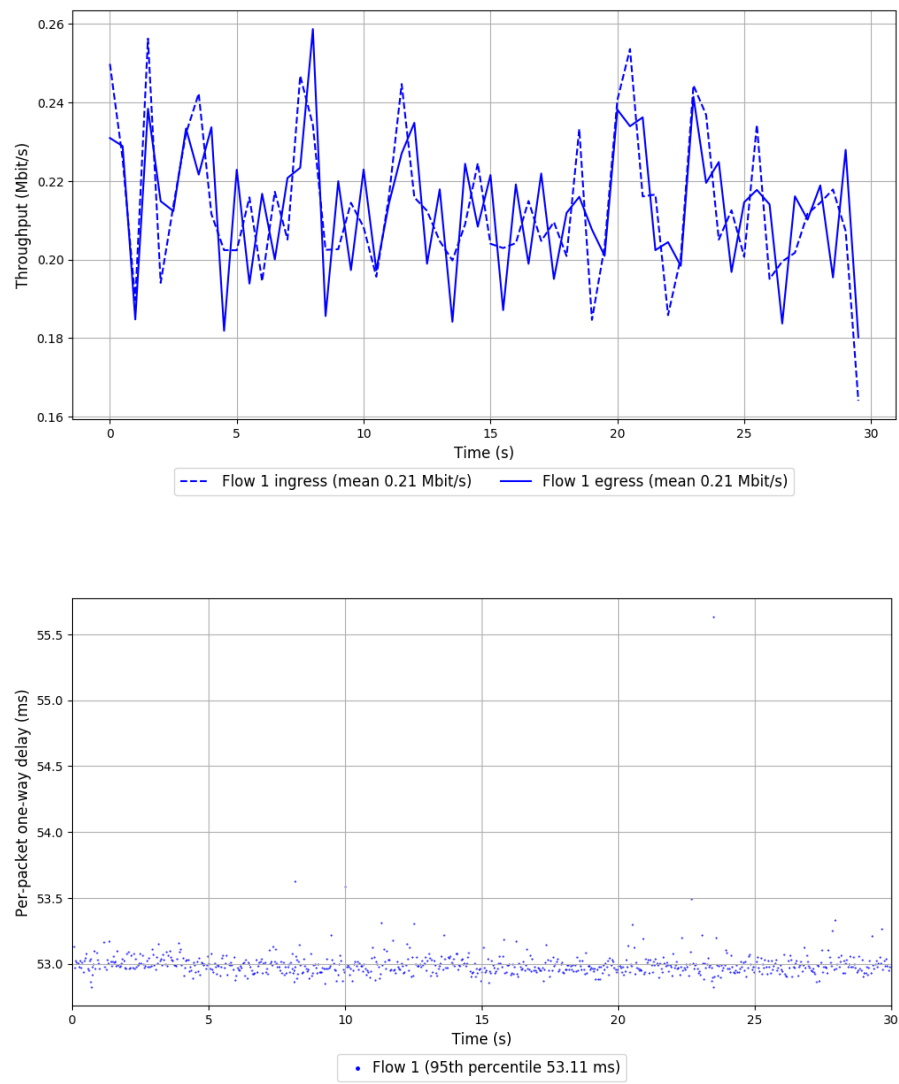
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.111 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

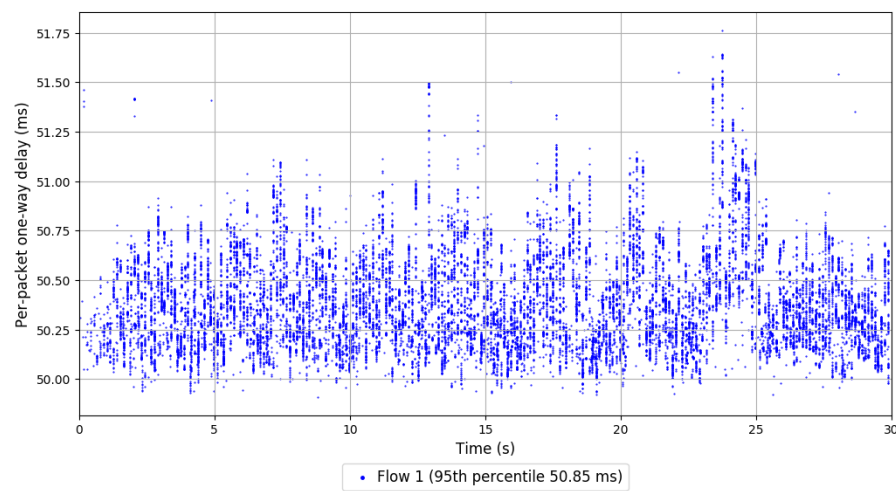
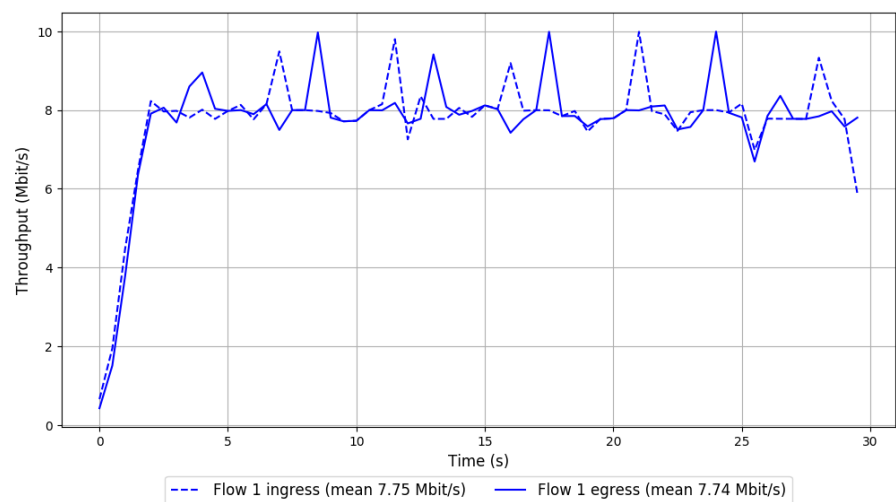


```
Run 1: Statistics of Sprout

Start at: 2017-09-18 04:23:01
End at: 2017-09-18 04:23:31

# Below is generated by plot.py at 2017-09-18 08:13:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.74 Mbit/s
95th percentile per-packet one-way delay: 50.849 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 7.74 Mbit/s
95th percentile per-packet one-way delay: 50.849 ms
Loss rate: 0.03%
```


Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-09-18 04:34:39

End at: 2017-09-18 04:35:09

Below is generated by plot.py at 2017-09-18 08:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.99 Mbit/s

95th percentile per-packet one-way delay: 51.146 ms

Loss rate: 0.05%

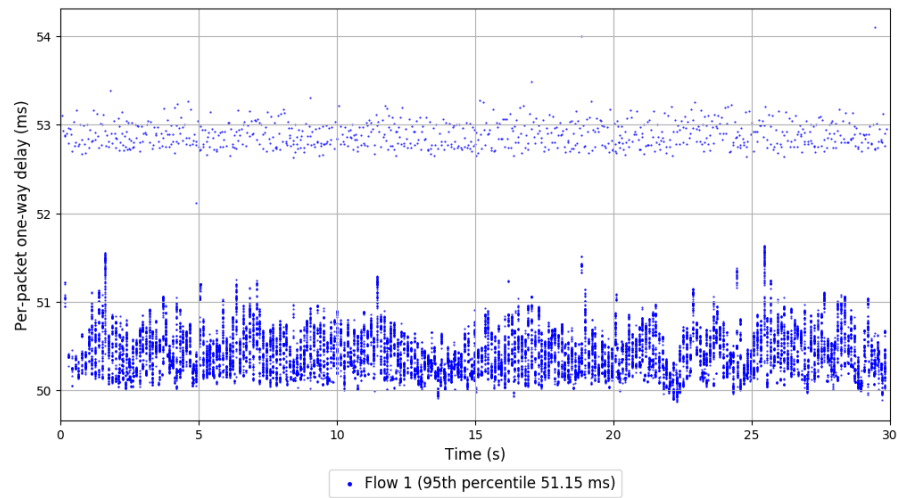
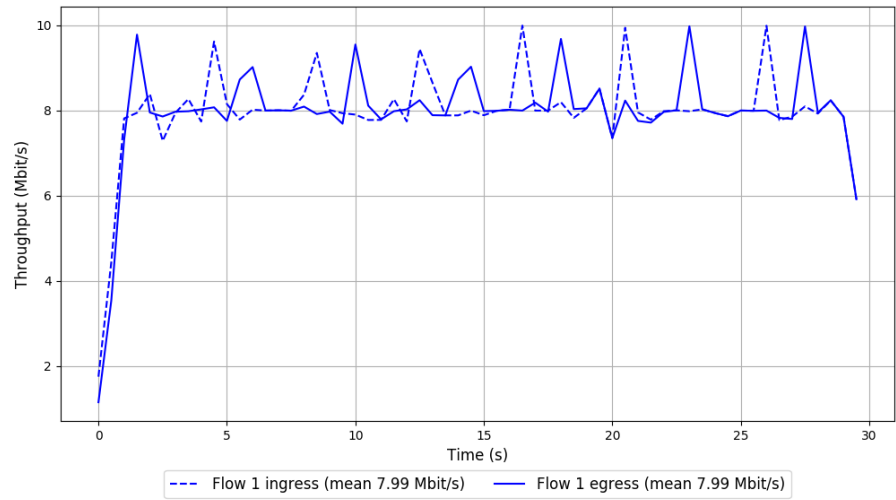
-- Flow 1:

Average throughput: 7.99 Mbit/s

95th percentile per-packet one-way delay: 51.146 ms

Loss rate: 0.05%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-09-18 04:45:46

End at: 2017-09-18 04:46:16

Below is generated by plot.py at 2017-09-18 08:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 50.712 ms

Loss rate: 0.24%

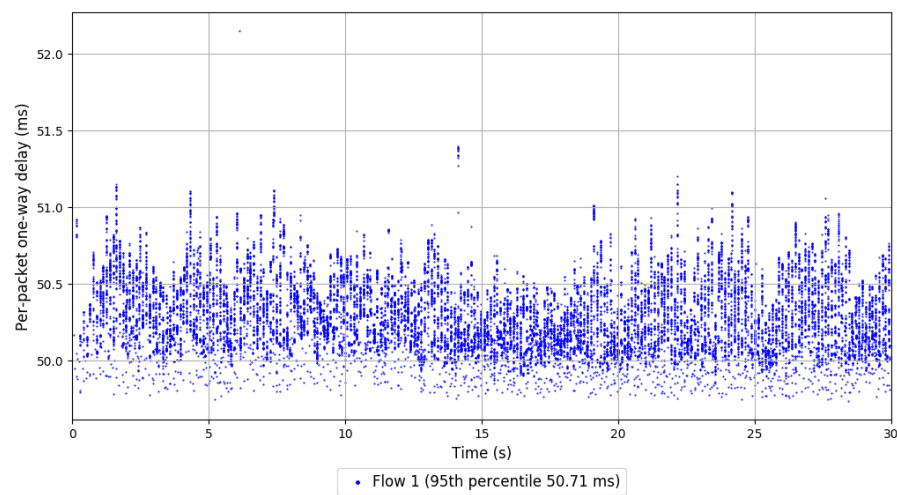
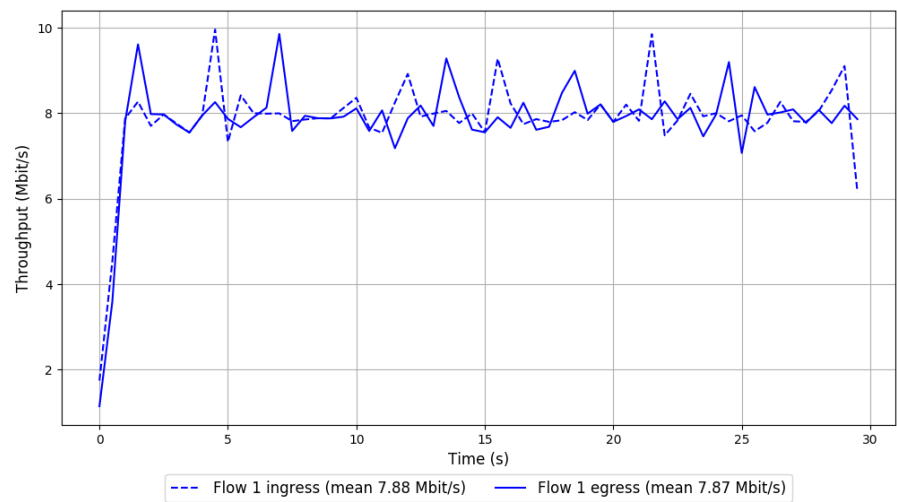
-- Flow 1:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 50.712 ms

Loss rate: 0.24%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-09-18 04:57:15

End at: 2017-09-18 04:57:45

Below is generated by plot.py at 2017-09-18 08:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 51.147 ms

Loss rate: 0.03%

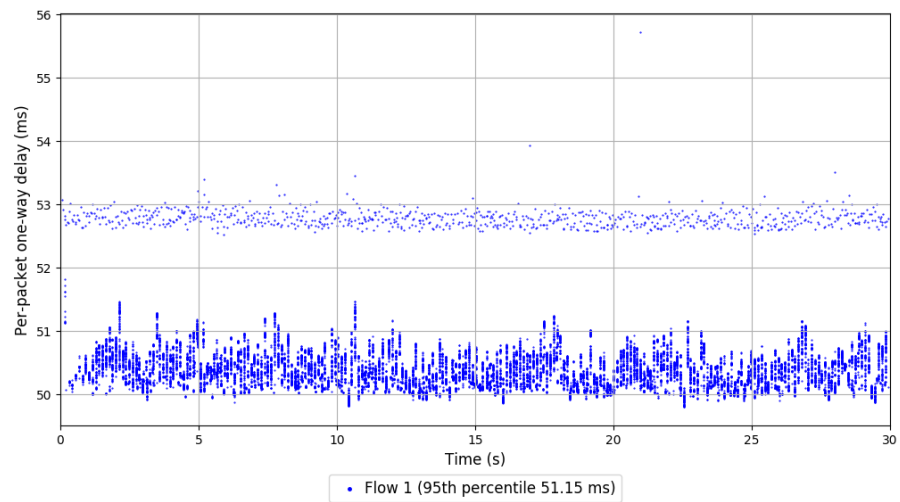
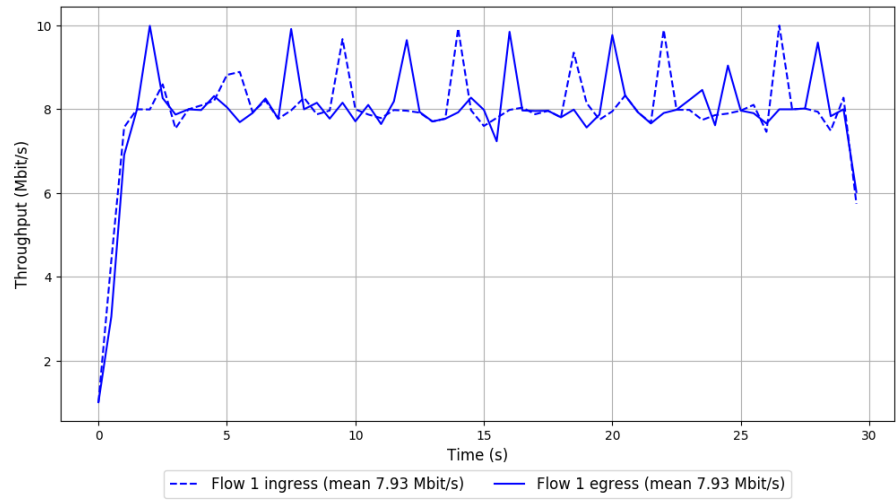
-- Flow 1:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 51.147 ms

Loss rate: 0.03%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-09-18 05:08:41

End at: 2017-09-18 05:09:11

Below is generated by plot.py at 2017-09-18 08:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 50.771 ms

Loss rate: 0.03%

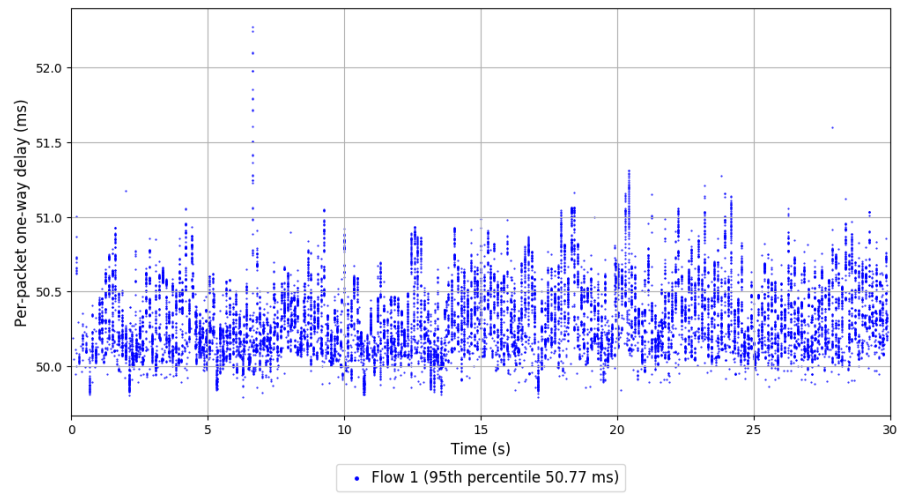
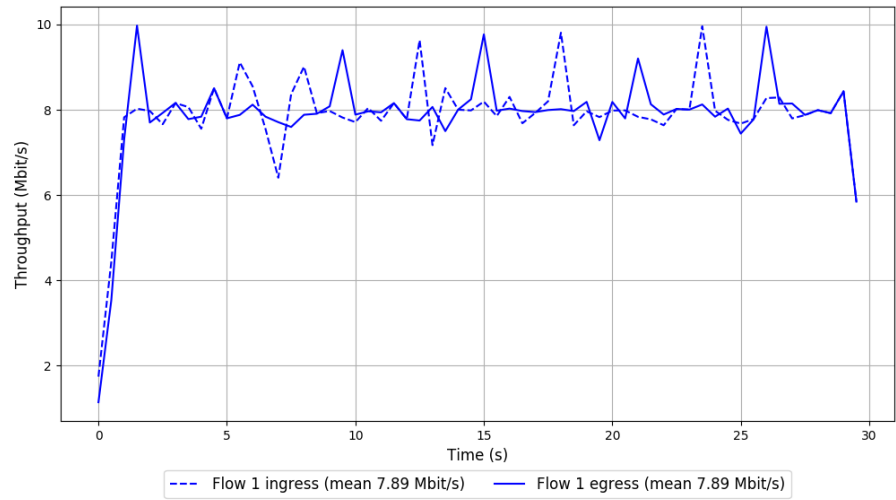
-- Flow 1:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 50.771 ms

Loss rate: 0.03%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-09-18 05:20:25

End at: 2017-09-18 05:20:55

Below is generated by plot.py at 2017-09-18 08:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 51.104 ms

Loss rate: 0.04%

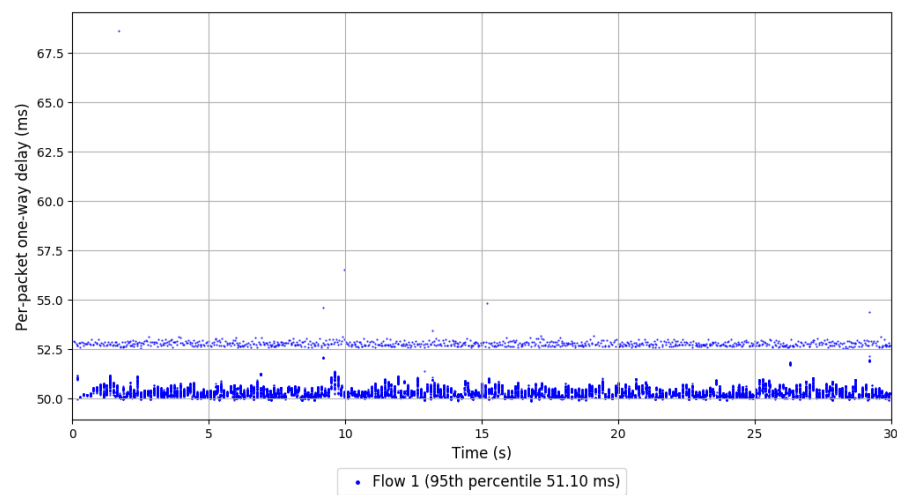
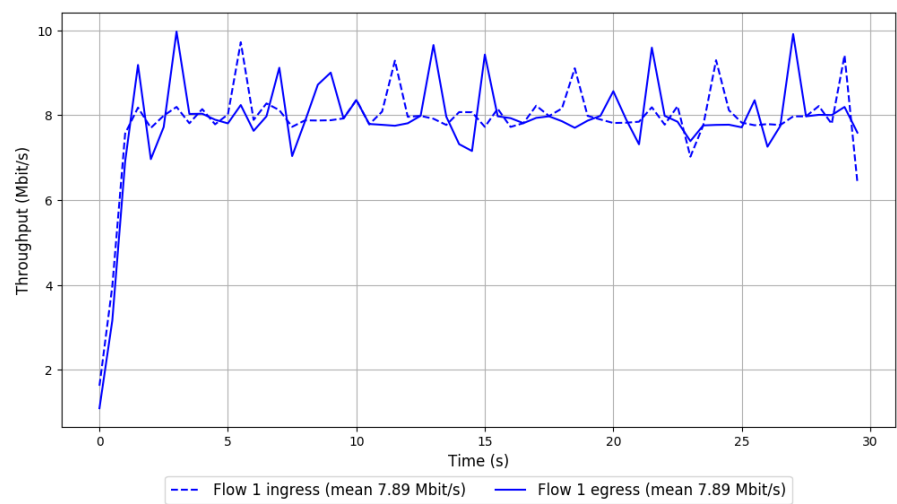
-- Flow 1:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 51.104 ms

Loss rate: 0.04%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-09-18 05:31:41

End at: 2017-09-18 05:32:11

Below is generated by plot.py at 2017-09-18 08:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 50.903 ms

Loss rate: 0.14%

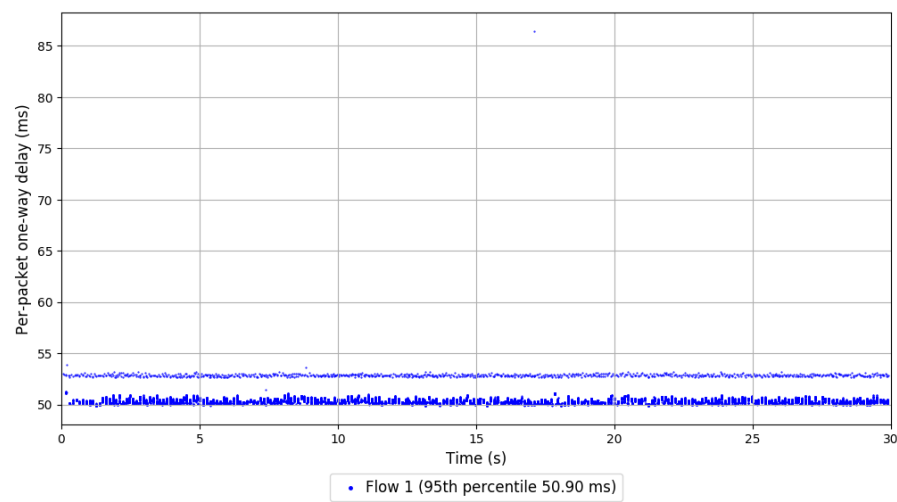
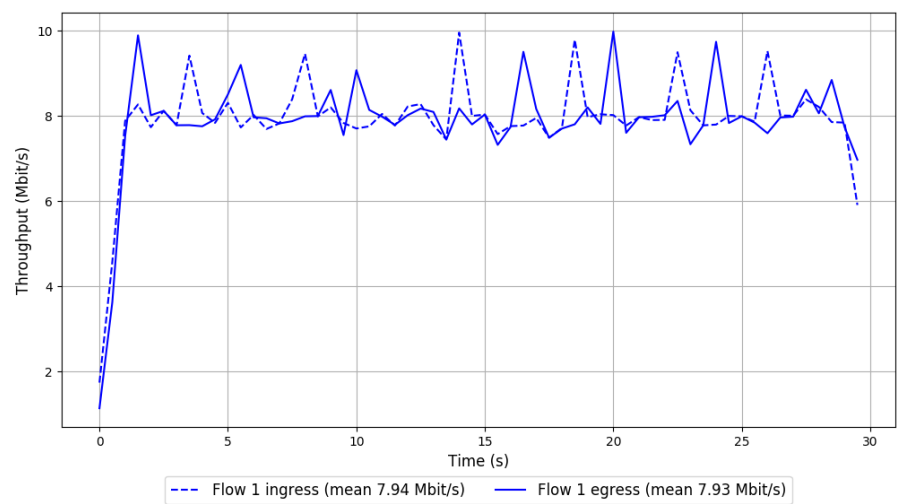
-- Flow 1:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 50.903 ms

Loss rate: 0.14%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-09-18 05:42:57

End at: 2017-09-18 05:43:27

Below is generated by plot.py at 2017-09-18 08:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 50.823 ms

Loss rate: 0.07%

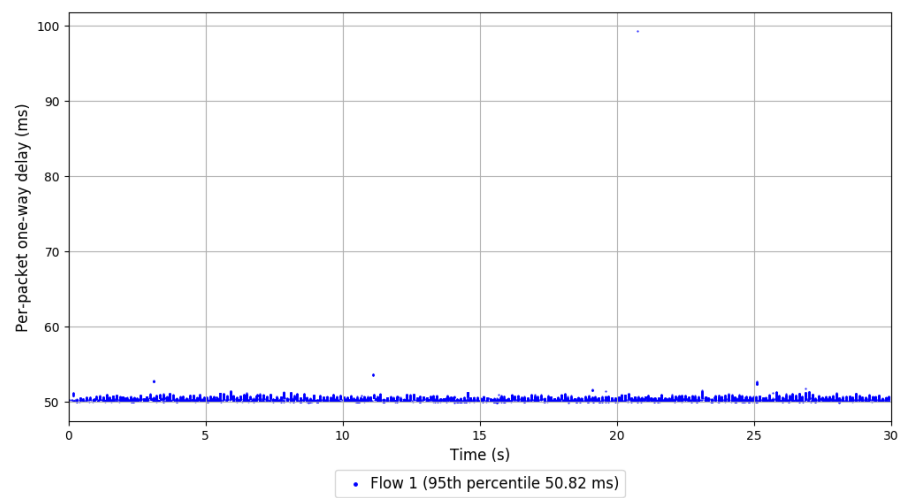
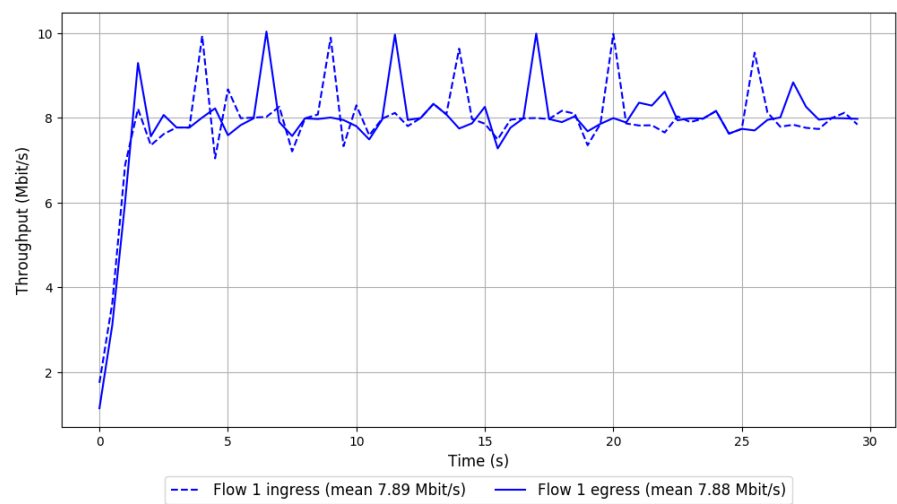
-- Flow 1:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 50.823 ms

Loss rate: 0.07%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-09-18 05:54:24

End at: 2017-09-18 05:54:54

Below is generated by plot.py at 2017-09-18 08:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 51.253 ms

Loss rate: 0.16%

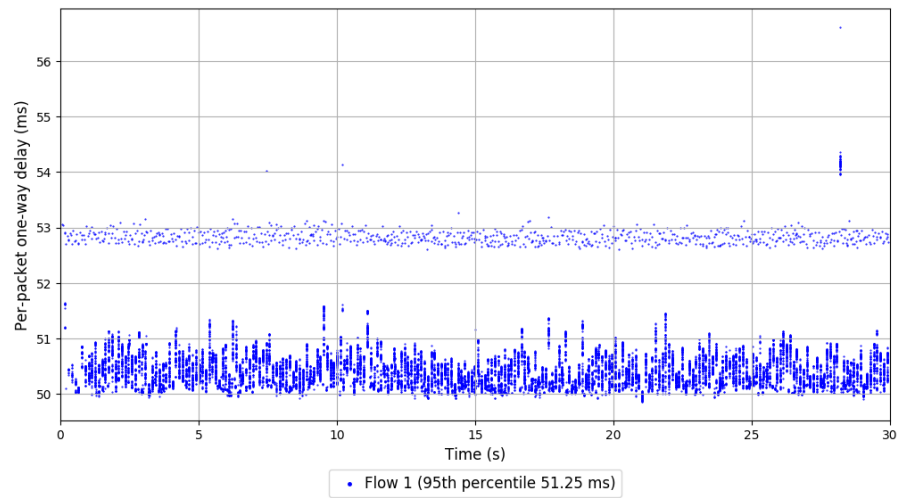
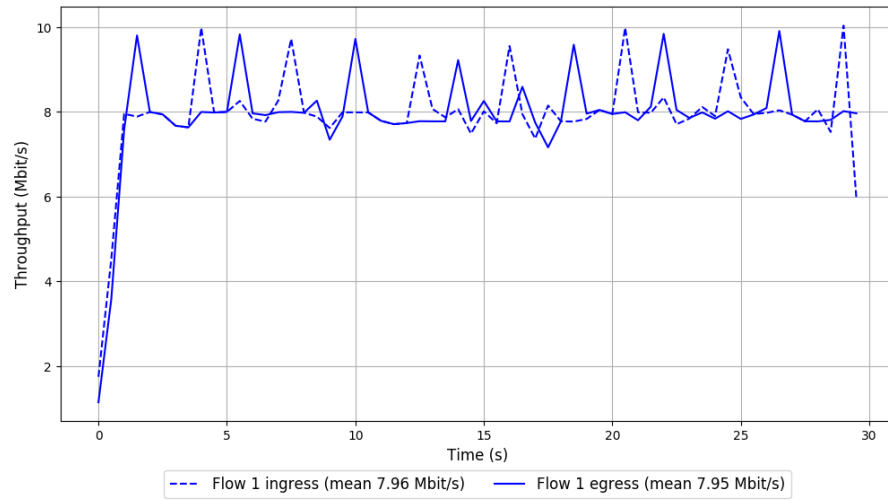
-- Flow 1:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 51.253 ms

Loss rate: 0.16%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-09-18 06:05:46

End at: 2017-09-18 06:06:16

Below is generated by plot.py at 2017-09-18 08:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 50.842 ms

Loss rate: 0.01%

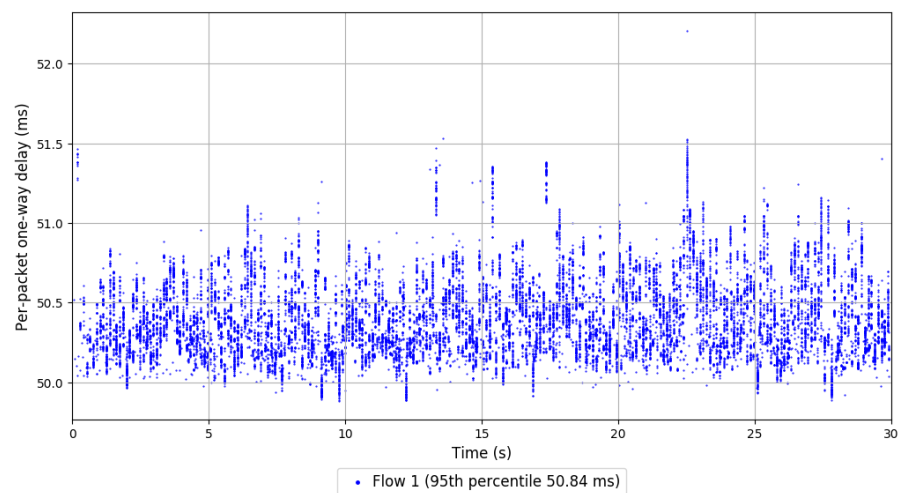
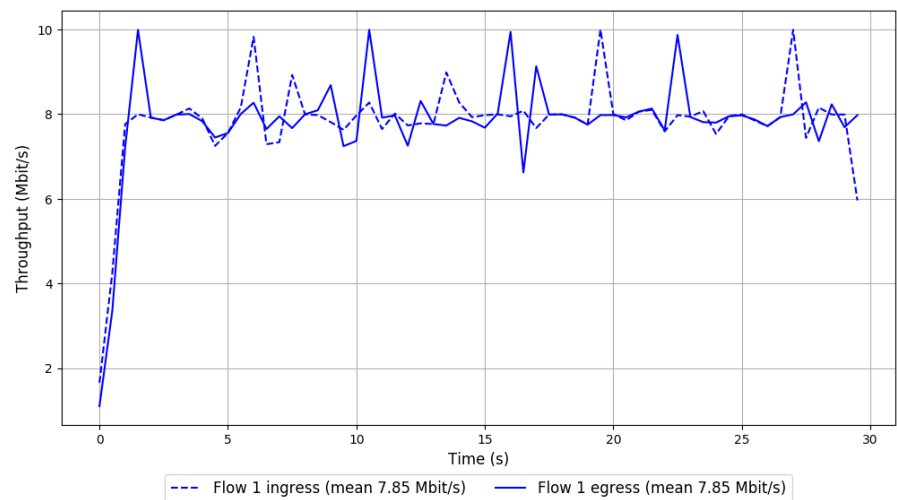
-- Flow 1:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 50.842 ms

Loss rate: 0.01%

Run 10: Report of Sprout — Data Link

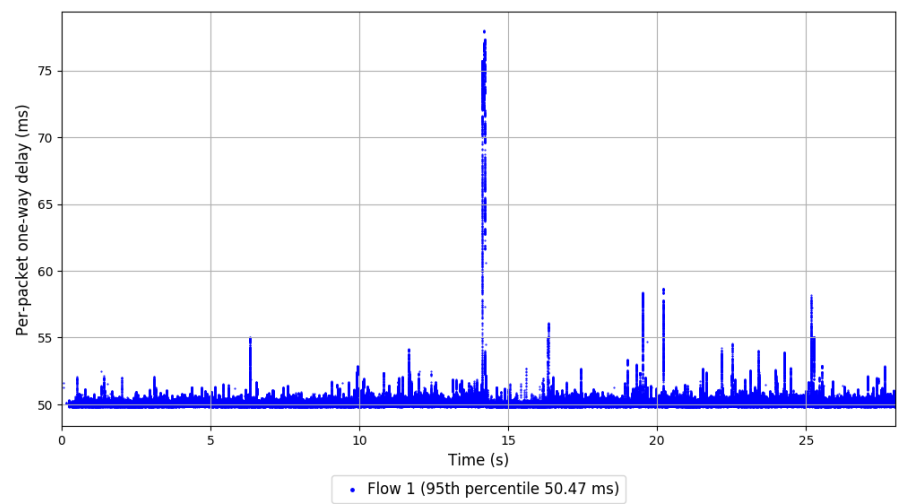
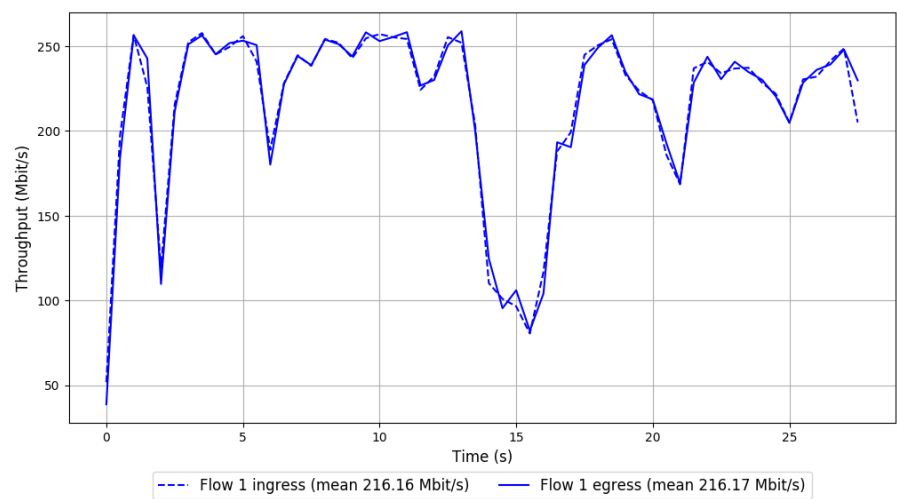


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-09-18 04:25:47
End at: 2017-09-18 04:26:17

# Below is generated by plot.py at 2017-09-18 08:13:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 216.17 Mbit/s
95th percentile per-packet one-way delay: 50.468 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 216.17 Mbit/s
95th percentile per-packet one-way delay: 50.468 ms
Loss rate: 0.00%
```

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

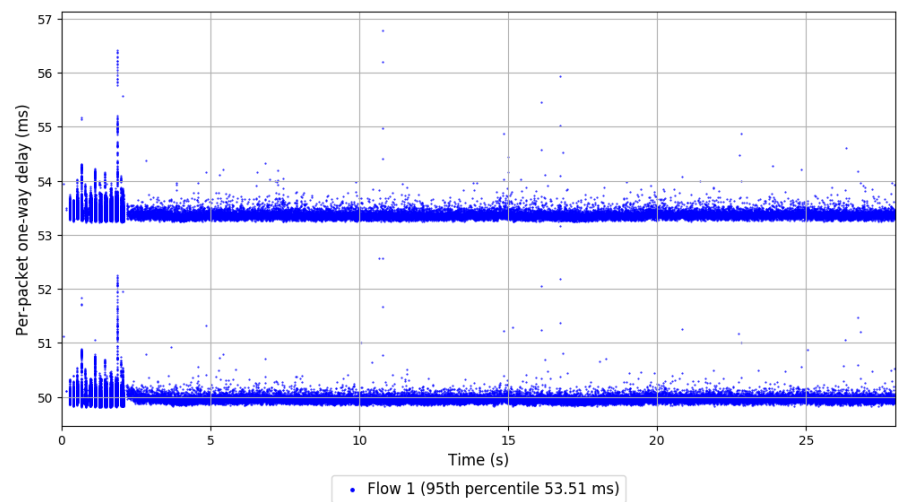
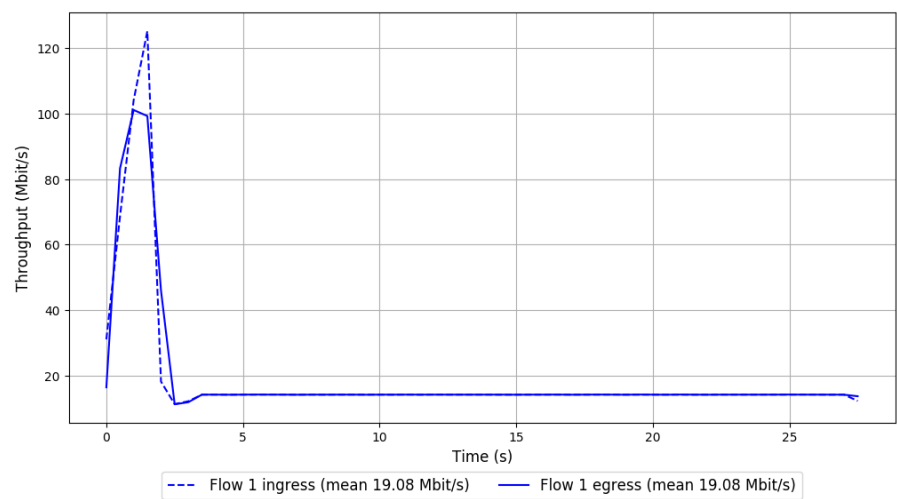


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-09-18 04:37:16
End at: 2017-09-18 04:37:46

# Below is generated by plot.py at 2017-09-18 08:13:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 19.08 Mbit/s
95th percentile per-packet one-way delay: 53.512 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 19.08 Mbit/s
95th percentile per-packet one-way delay: 53.512 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-09-18 04:48:35

End at: 2017-09-18 04:49:05

Below is generated by plot.py at 2017-09-18 08:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 250.95 Mbit/s

95th percentile per-packet one-way delay: 50.013 ms

Loss rate: 0.00%

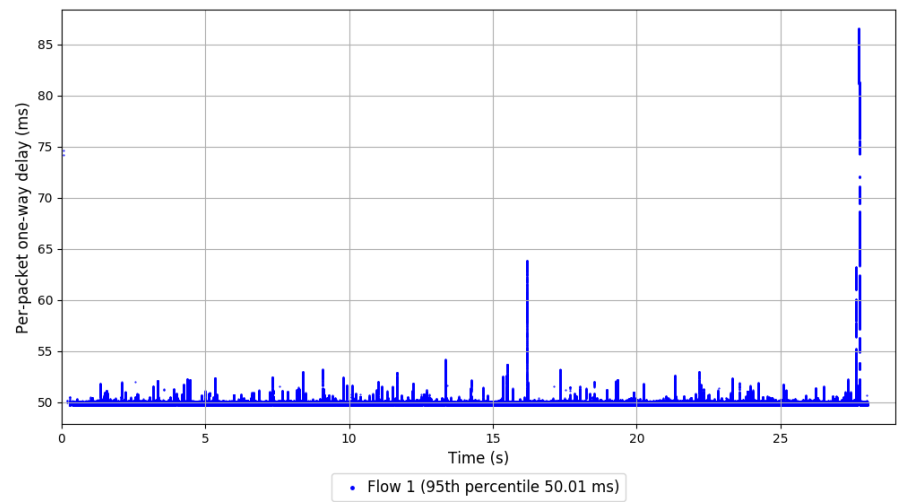
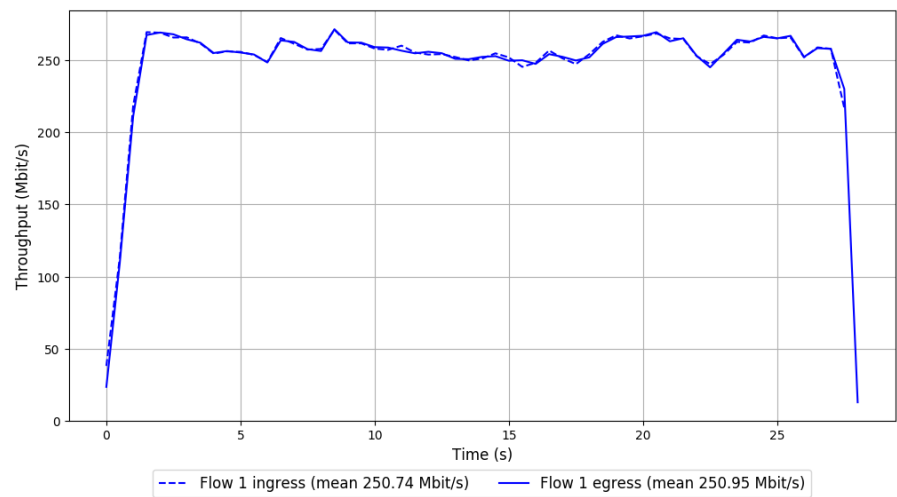
-- Flow 1:

Average throughput: 250.95 Mbit/s

95th percentile per-packet one-way delay: 50.013 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-09-18 05:00:05

End at: 2017-09-18 05:00:35

Below is generated by plot.py at 2017-09-18 08:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.67 Mbit/s

95th percentile per-packet one-way delay: 53.402 ms

Loss rate: 0.00%

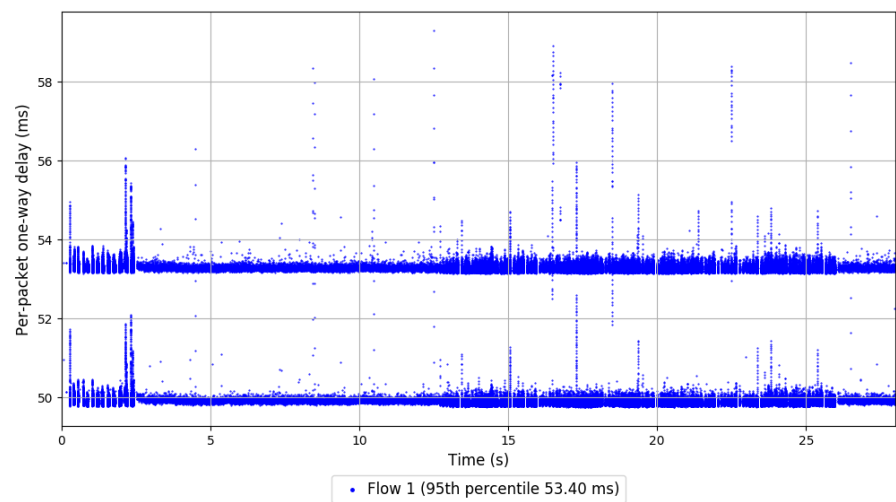
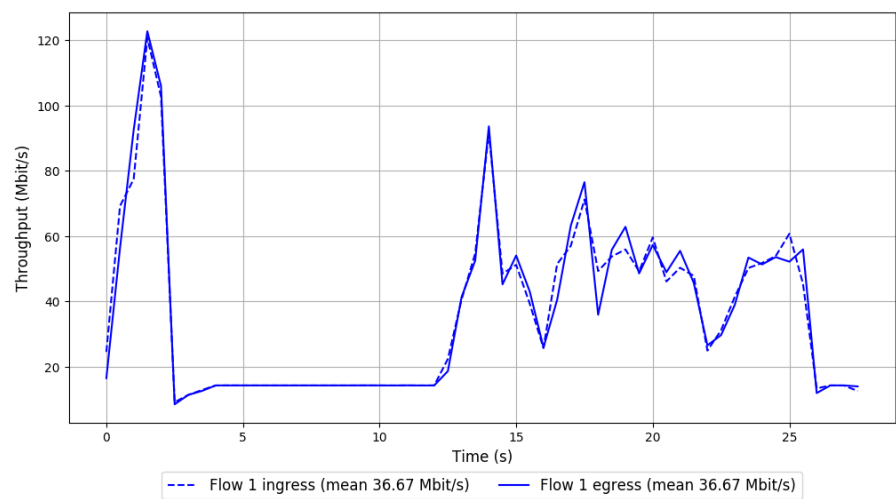
-- Flow 1:

Average throughput: 36.67 Mbit/s

95th percentile per-packet one-way delay: 53.402 ms

Loss rate: 0.00%

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

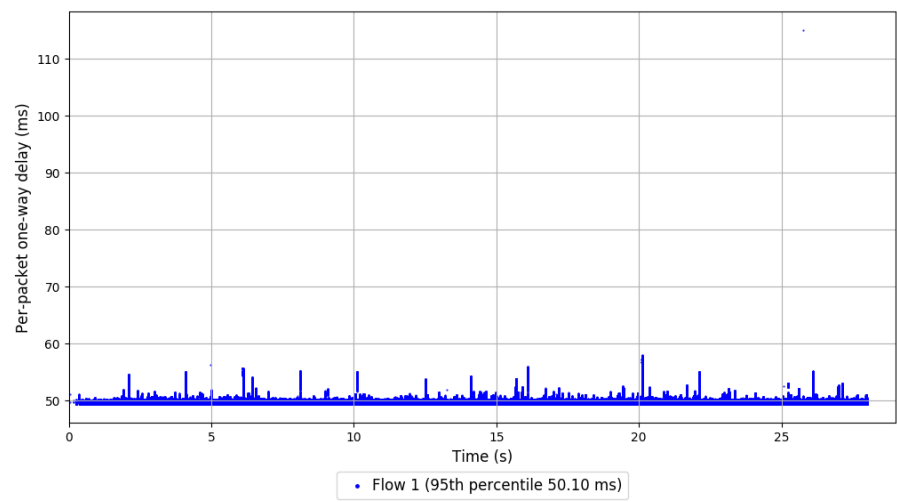
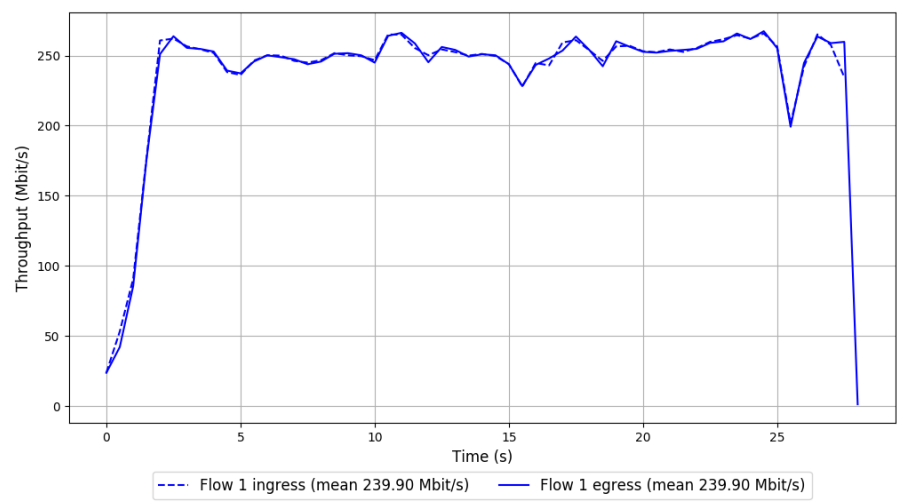


```
Run 5: Statistics of TaoVA-100x

Start at: 2017-09-18 05:11:28
End at: 2017-09-18 05:11:58

# Below is generated by plot.py at 2017-09-18 08:13:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 239.90 Mbit/s
95th percentile per-packet one-way delay: 50.103 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 239.90 Mbit/s
95th percentile per-packet one-way delay: 50.103 ms
Loss rate: 0.00%
```

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

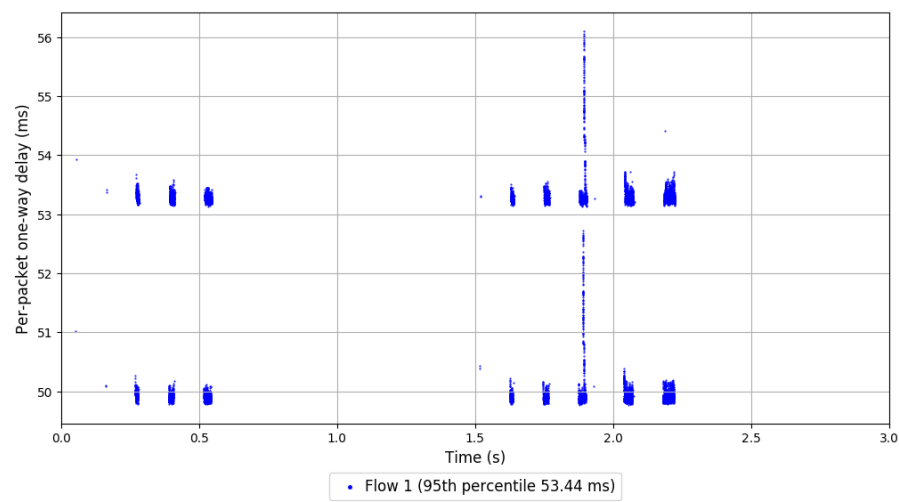
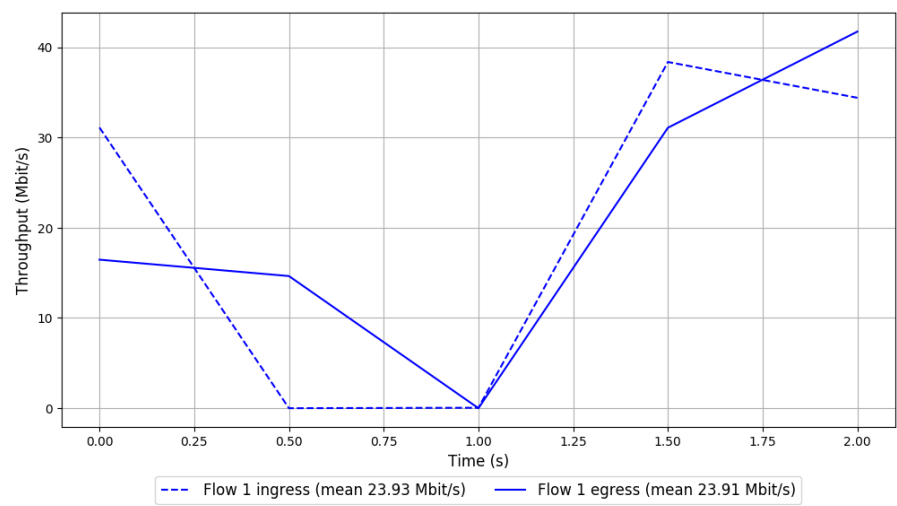


Run 6: Statistics of TaoVA-100x

Start at: 2017-09-18 05:23:11

End at: 2017-09-18 05:23:41

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

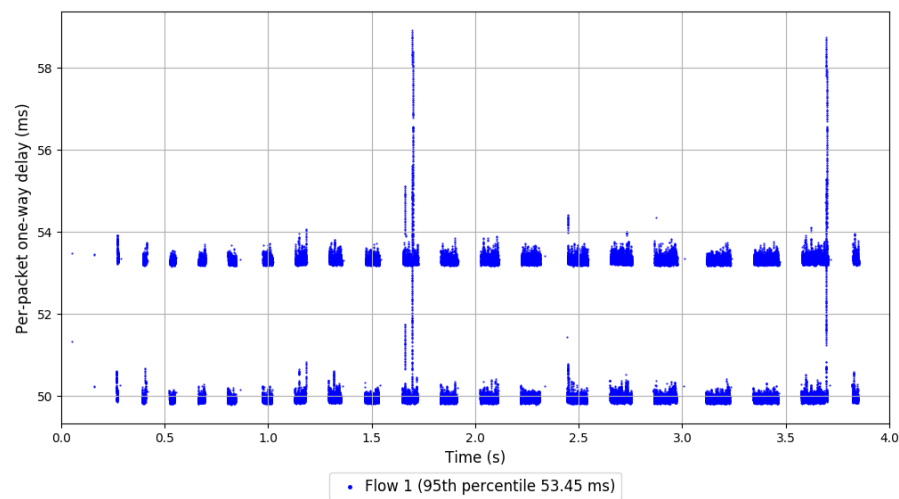
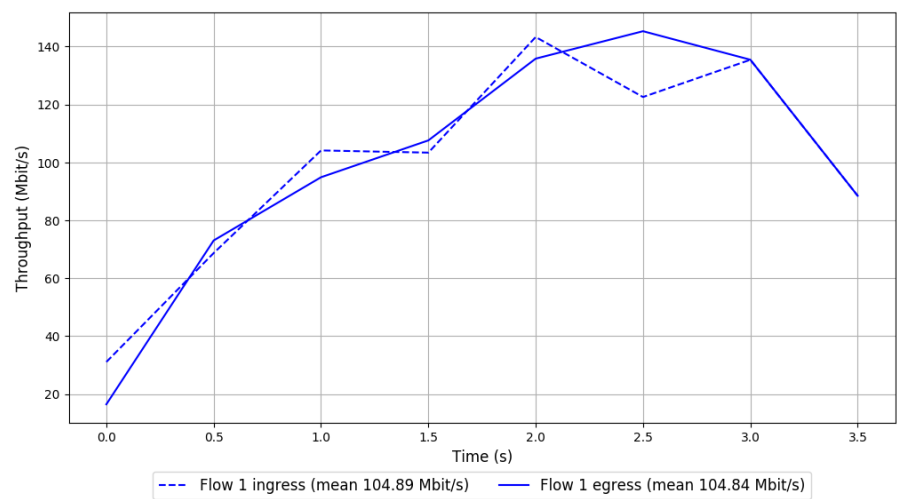


Run 7: Statistics of TaoVA-100x

Start at: 2017-09-18 05:34:26

End at: 2017-09-18 05:34:56

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

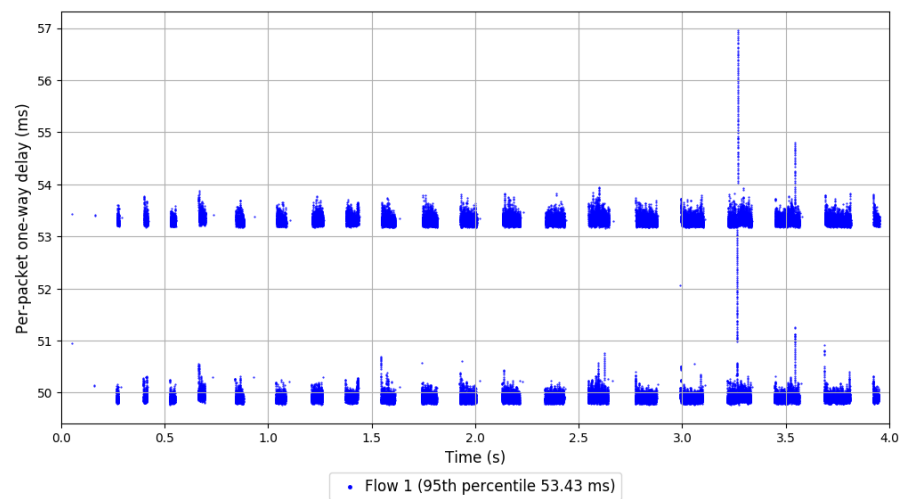
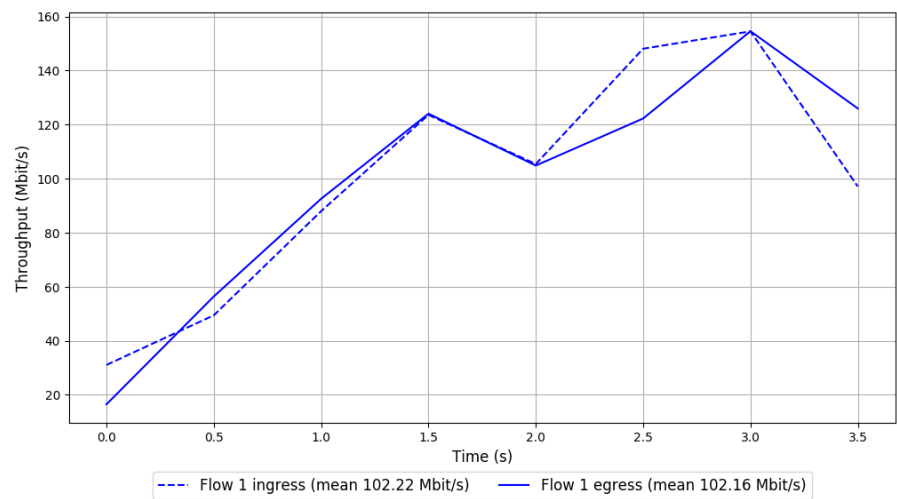


Run 8: Statistics of TaoVA-100x

Start at: 2017-09-18 05:45:47

End at: 2017-09-18 05:46:17

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-09-18 05:57:12

End at: 2017-09-18 05:57:42

Below is generated by plot.py at 2017-09-18 08:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.16 Mbit/s

95th percentile per-packet one-way delay: 52.787 ms

Loss rate: 0.00%

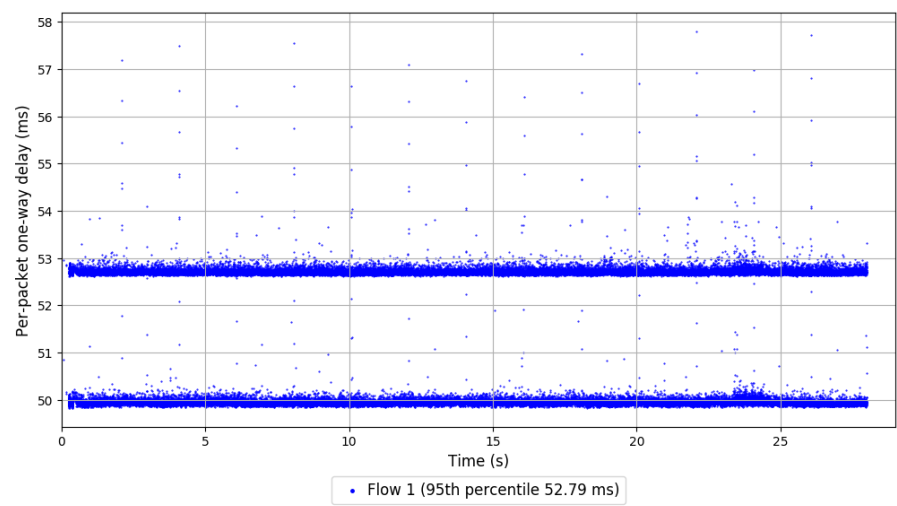
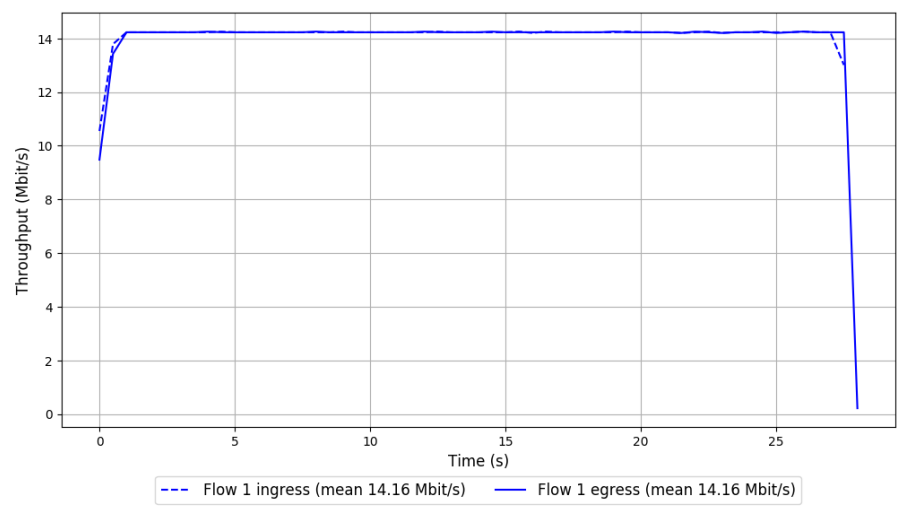
-- Flow 1:

Average throughput: 14.16 Mbit/s

95th percentile per-packet one-way delay: 52.787 ms

Loss rate: 0.00%

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

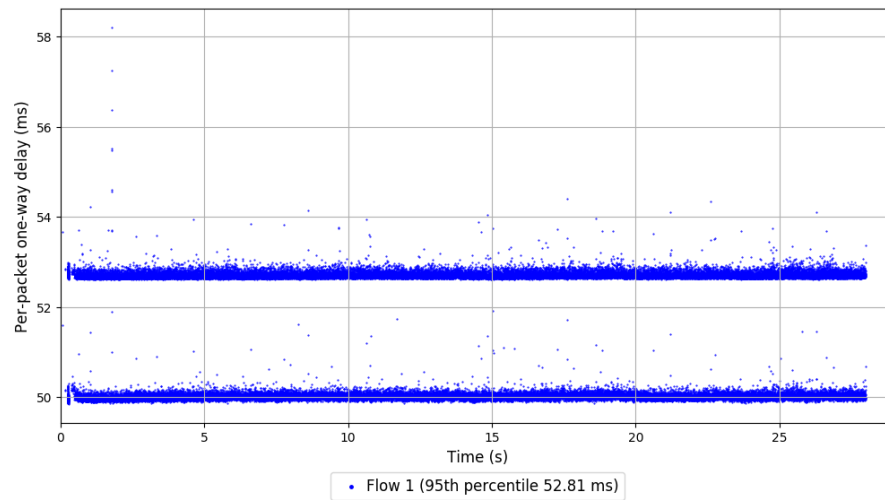
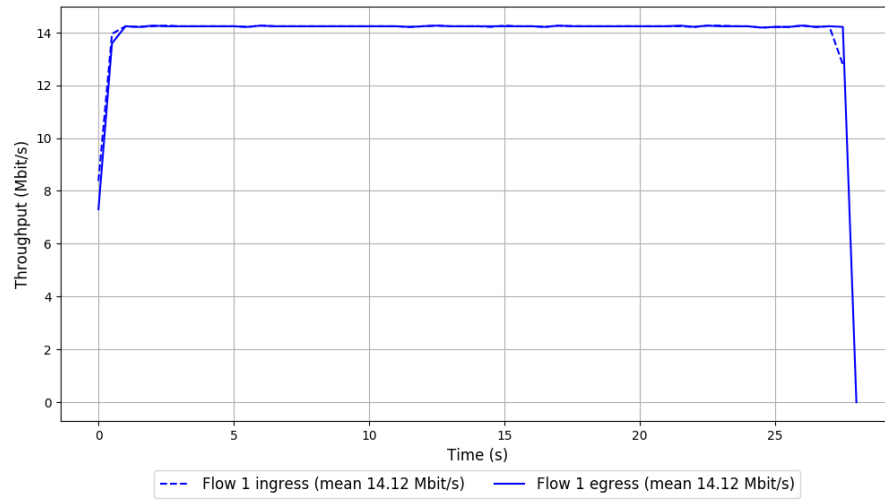


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-09-18 06:08:34
End at: 2017-09-18 06:09:04

# Below is generated by plot.py at 2017-09-18 08:13:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 14.12 Mbit/s
95th percentile per-packet one-way delay: 52.809 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 14.12 Mbit/s
95th percentile per-packet one-way delay: 52.809 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-09-18 04:30:24

End at: 2017-09-18 04:30:54

Below is generated by plot.py at 2017-09-18 08:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.66 Mbit/s

95th percentile per-packet one-way delay: 50.687 ms

Loss rate: 0.00%

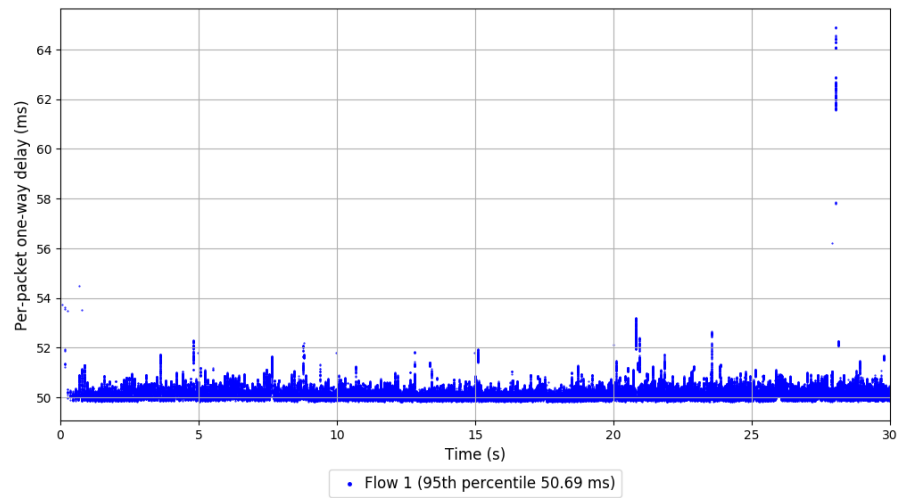
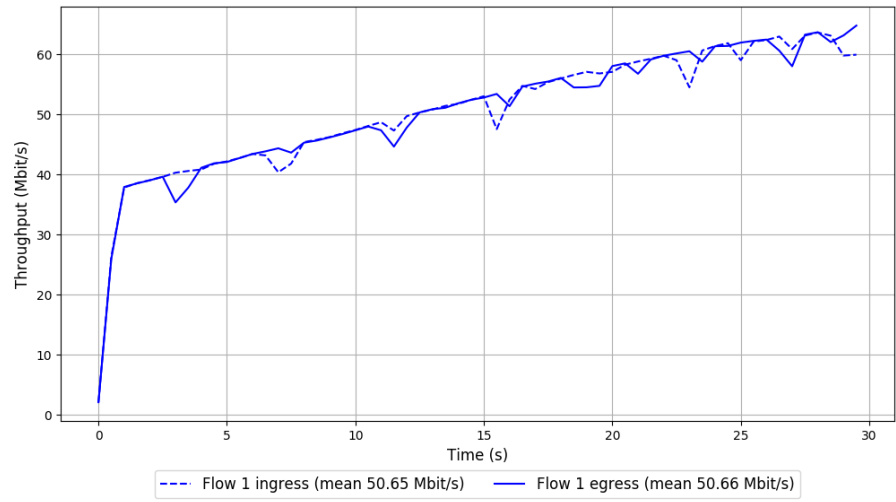
-- Flow 1:

Average throughput: 50.66 Mbit/s

95th percentile per-packet one-way delay: 50.687 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-09-18 04:41:30

End at: 2017-09-18 04:42:00

Below is generated by plot.py at 2017-09-18 08:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.38 Mbit/s

95th percentile per-packet one-way delay: 50.681 ms

Loss rate: 0.01%

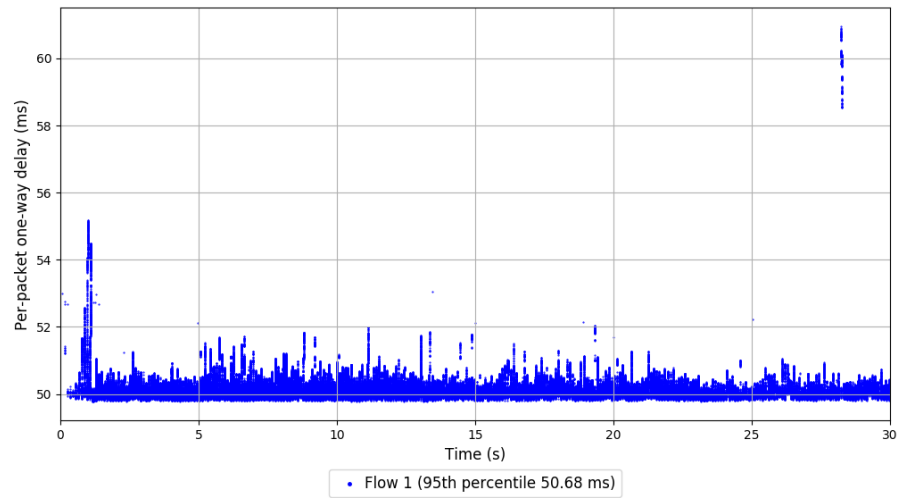
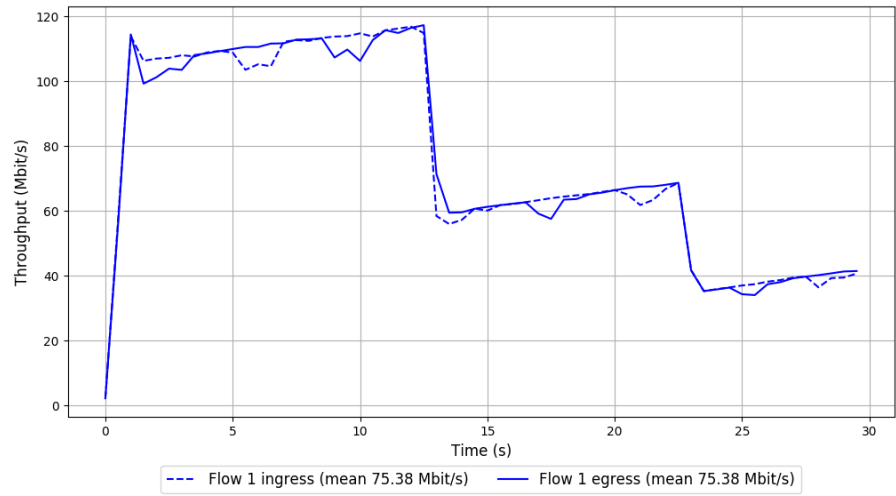
-- Flow 1:

Average throughput: 75.38 Mbit/s

95th percentile per-packet one-way delay: 50.681 ms

Loss rate: 0.01%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-09-18 04:53:09

End at: 2017-09-18 04:53:40

Below is generated by plot.py at 2017-09-18 08:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.66 Mbit/s

95th percentile per-packet one-way delay: 50.542 ms

Loss rate: 0.08%

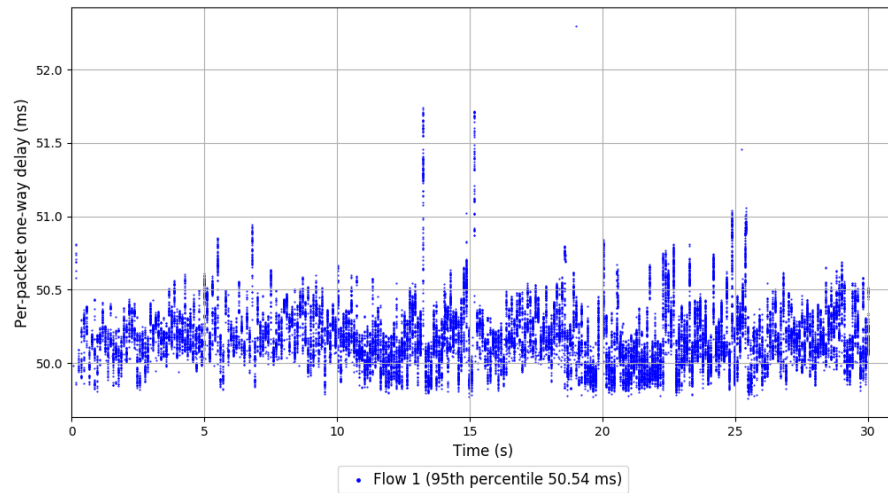
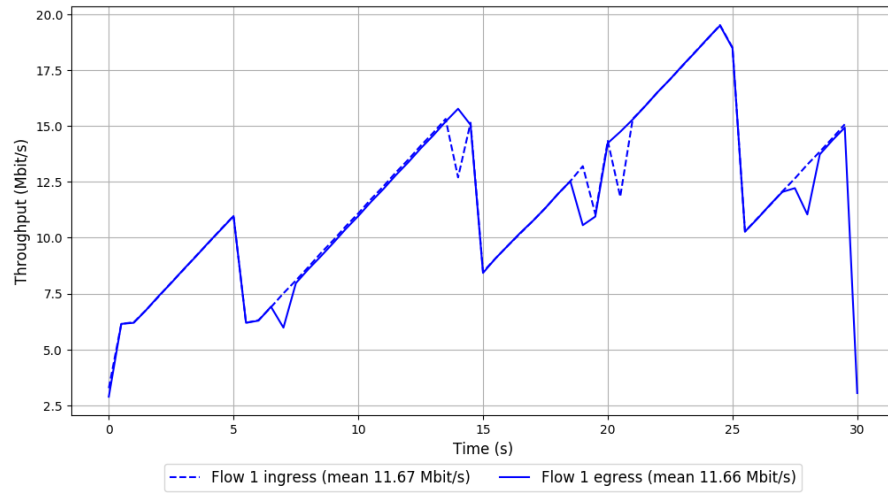
-- Flow 1:

Average throughput: 11.66 Mbit/s

95th percentile per-packet one-way delay: 50.542 ms

Loss rate: 0.08%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-09-18 05:04:24

End at: 2017-09-18 05:04:54

Below is generated by plot.py at 2017-09-18 08:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.41 Mbit/s

95th percentile per-packet one-way delay: 50.730 ms

Loss rate: 0.00%

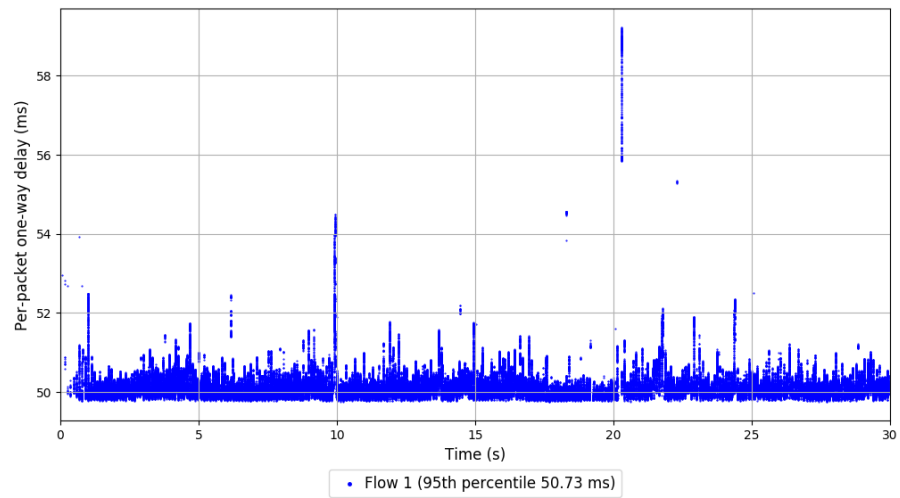
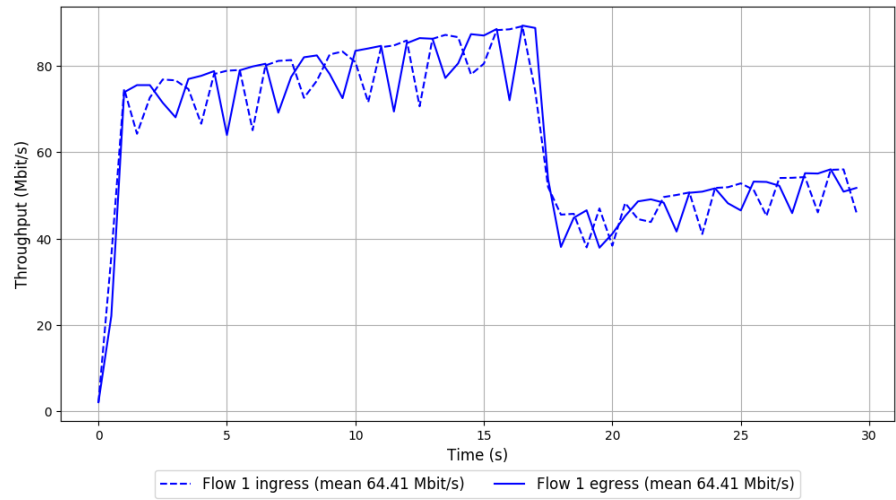
-- Flow 1:

Average throughput: 64.41 Mbit/s

95th percentile per-packet one-way delay: 50.730 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-09-18 05:16:07

End at: 2017-09-18 05:16:37

Below is generated by plot.py at 2017-09-18 08:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.03 Mbit/s

95th percentile per-packet one-way delay: 50.913 ms

Loss rate: 0.00%

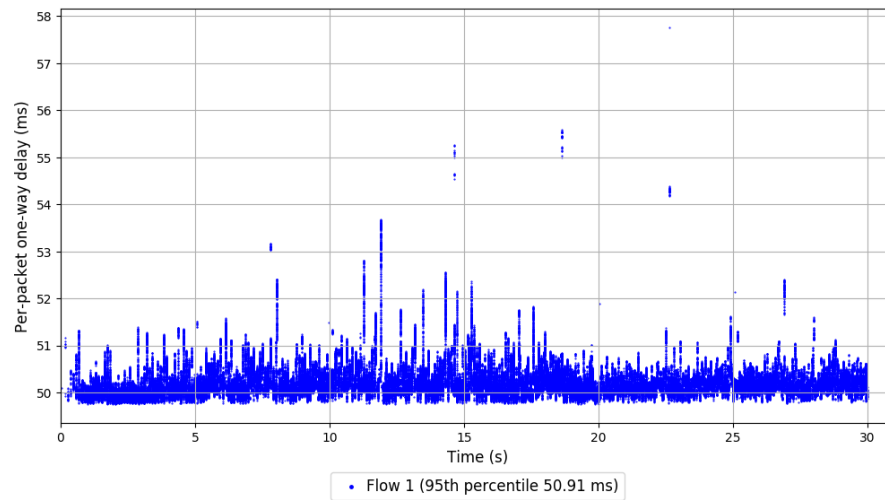
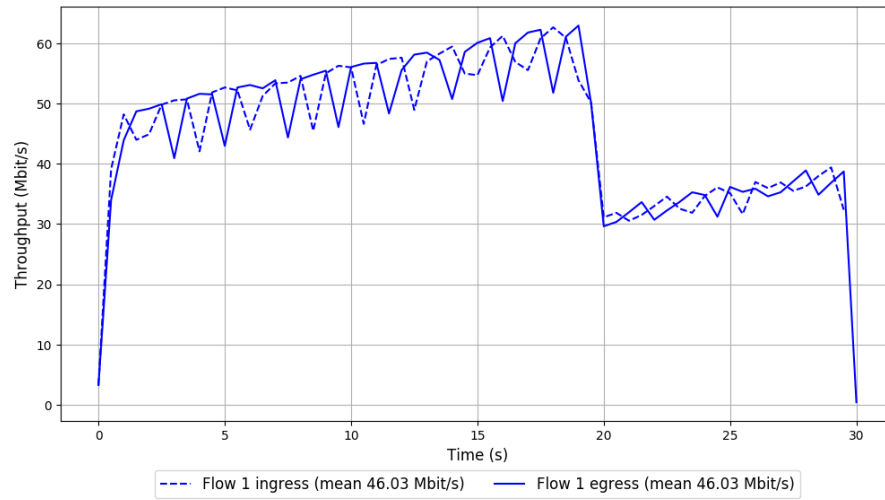
-- Flow 1:

Average throughput: 46.03 Mbit/s

95th percentile per-packet one-way delay: 50.913 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-09-18 05:27:28

End at: 2017-09-18 05:27:58

Below is generated by plot.py at 2017-09-18 08:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.48 Mbit/s

95th percentile per-packet one-way delay: 50.777 ms

Loss rate: 0.01%

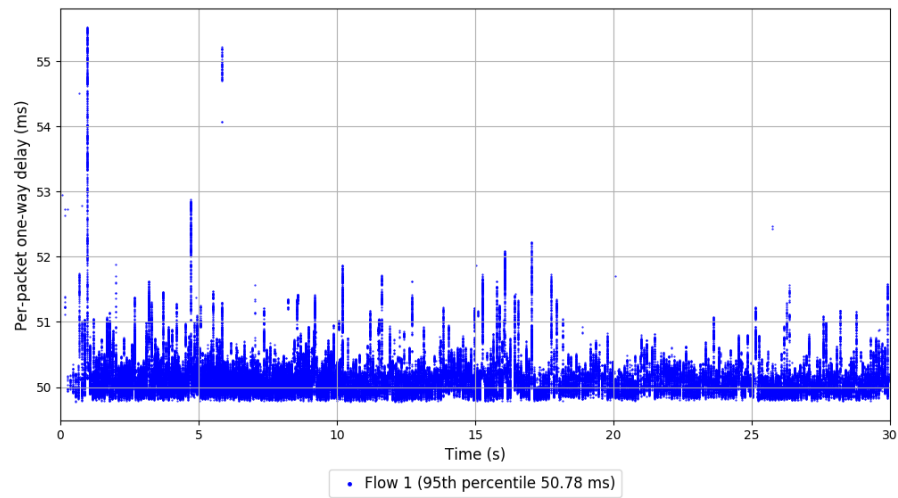
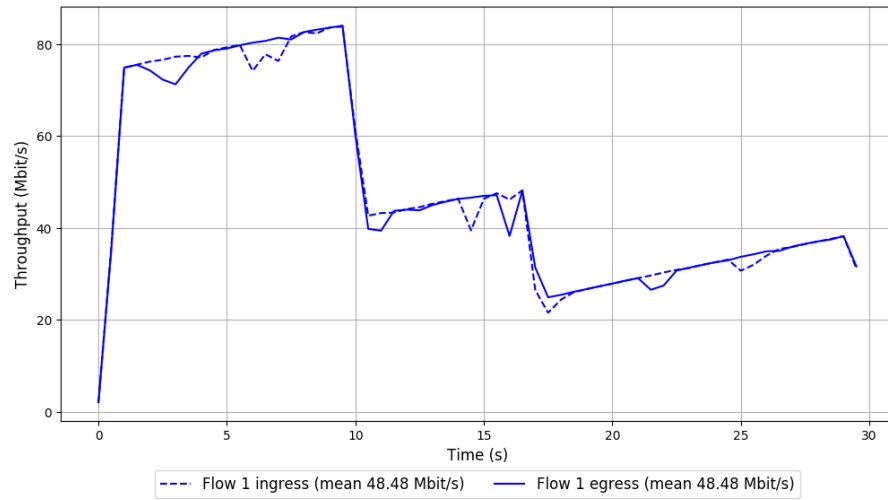
-- Flow 1:

Average throughput: 48.48 Mbit/s

95th percentile per-packet one-way delay: 50.777 ms

Loss rate: 0.01%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-09-18 05:38:44

End at: 2017-09-18 05:39:14

Below is generated by plot.py at 2017-09-18 08:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.87 Mbit/s

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

Loss rate: 0.01%

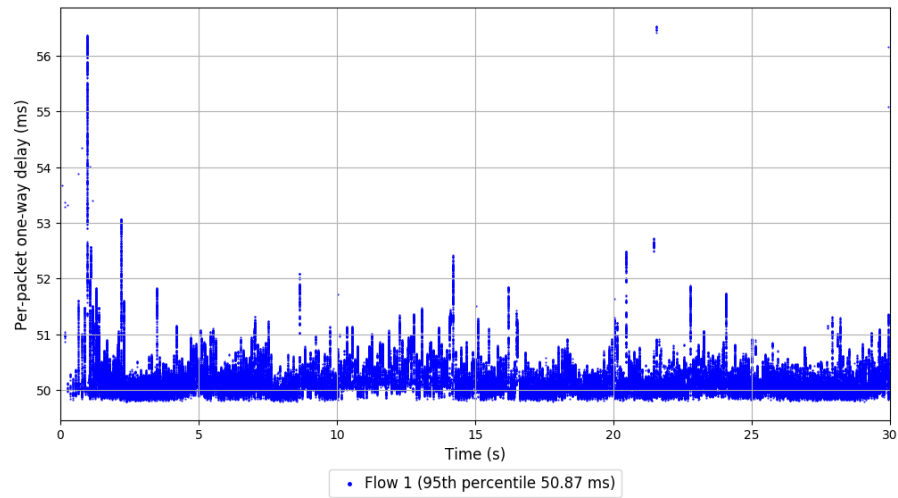
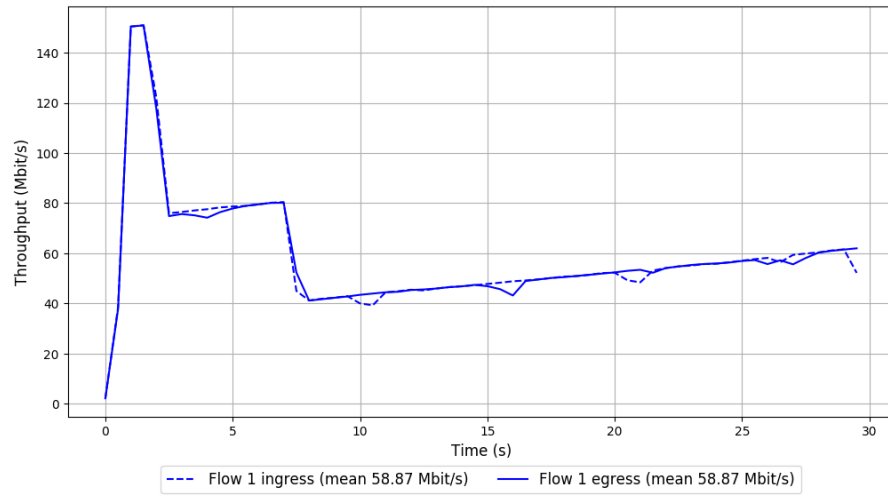
-- Flow 1:

Average throughput: 58.87 Mbit/s

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

Loss rate: 0.01%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-09-18 05:50:05

End at: 2017-09-18 05:50:35

Below is generated by plot.py at 2017-09-18 08:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.98 Mbit/s

95th percentile per-packet one-way delay: 50.591 ms

Loss rate: 0.00%

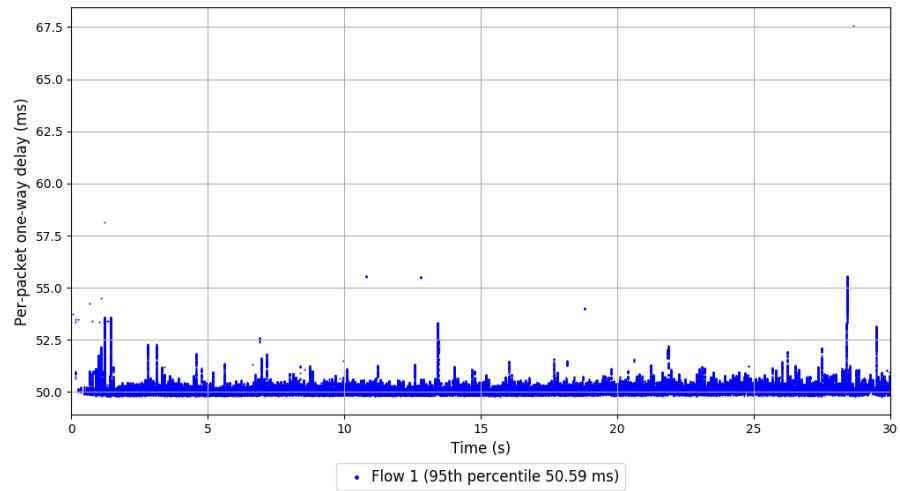
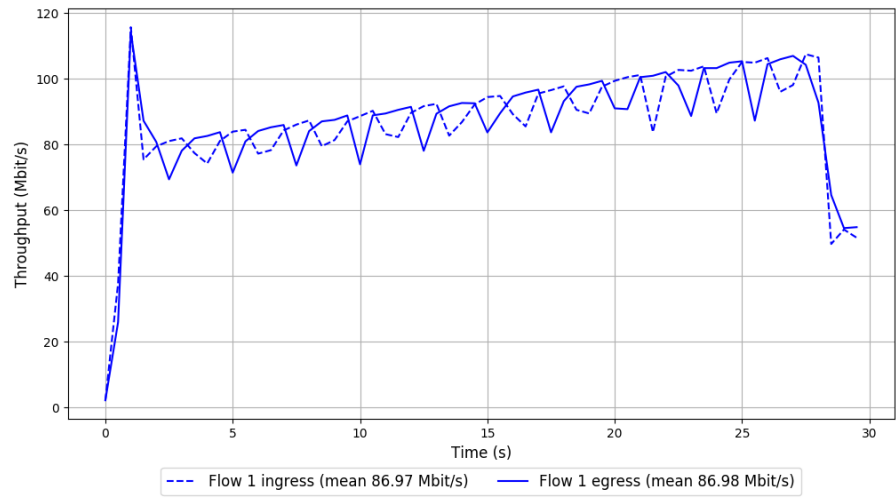
-- Flow 1:

Average throughput: 86.98 Mbit/s

95th percentile per-packet one-way delay: 50.591 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-09-18 06:01:30

End at: 2017-09-18 06:02:00

Below is generated by plot.py at 2017-09-18 08:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.71 Mbit/s

95th percentile per-packet one-way delay: 50.667 ms

Loss rate: 0.01%

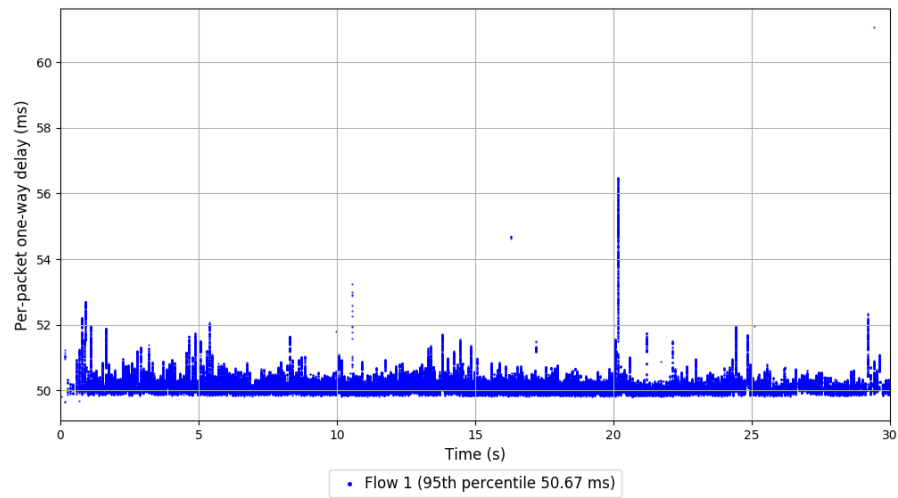
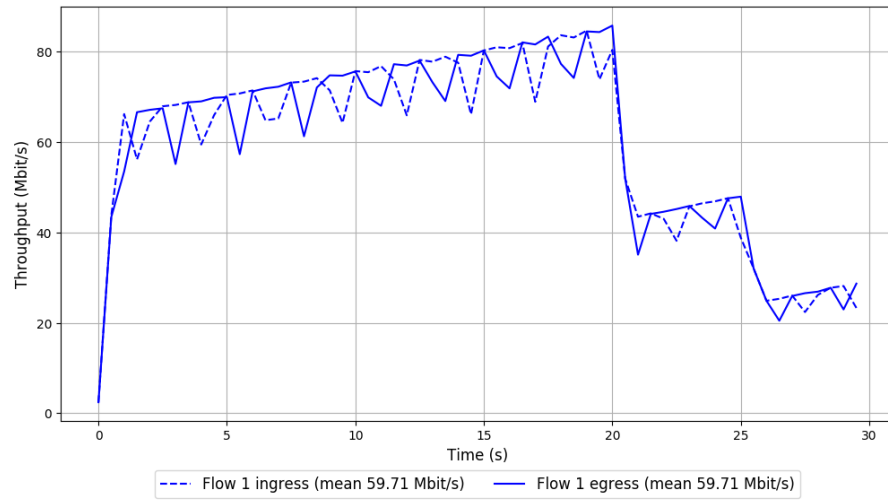
-- Flow 1:

Average throughput: 59.71 Mbit/s

95th percentile per-packet one-way delay: 50.667 ms

Loss rate: 0.01%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-09-18 06:12:53

End at: 2017-09-18 06:13:23

Below is generated by plot.py at 2017-09-18 08:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.20 Mbit/s

95th percentile per-packet one-way delay: 50.766 ms

Loss rate: 0.00%

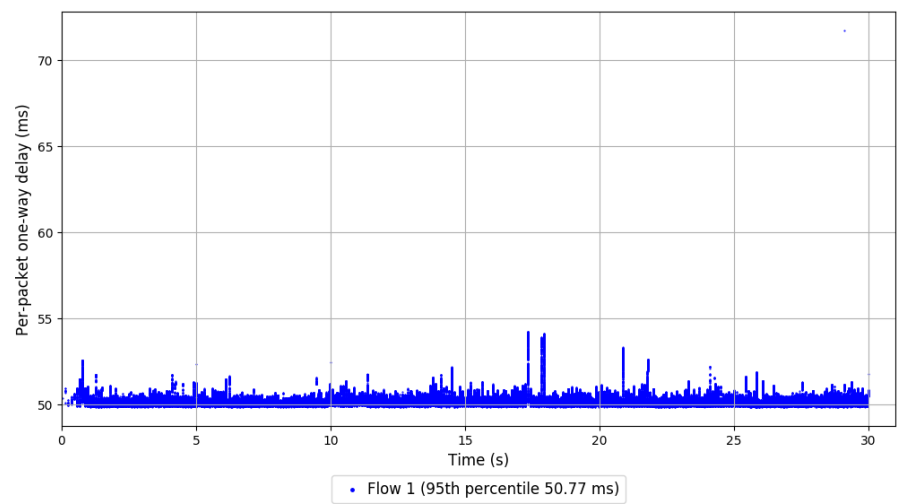
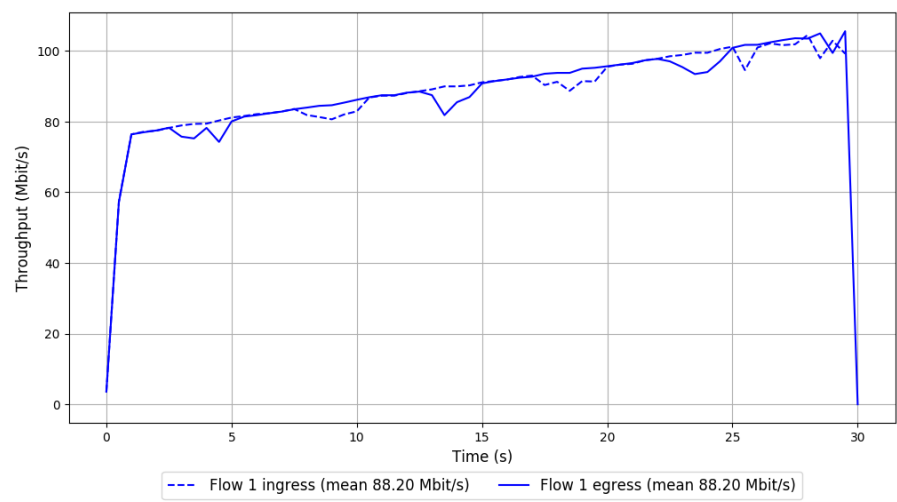
-- Flow 1:

Average throughput: 88.20 Mbit/s

95th percentile per-packet one-way delay: 50.766 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-09-18 04:23:39

End at: 2017-09-18 04:24:09

Below is generated by plot.py at 2017-09-18 08:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.01 Mbit/s

95th percentile per-packet one-way delay: 114.101 ms

Loss rate: 0.00%

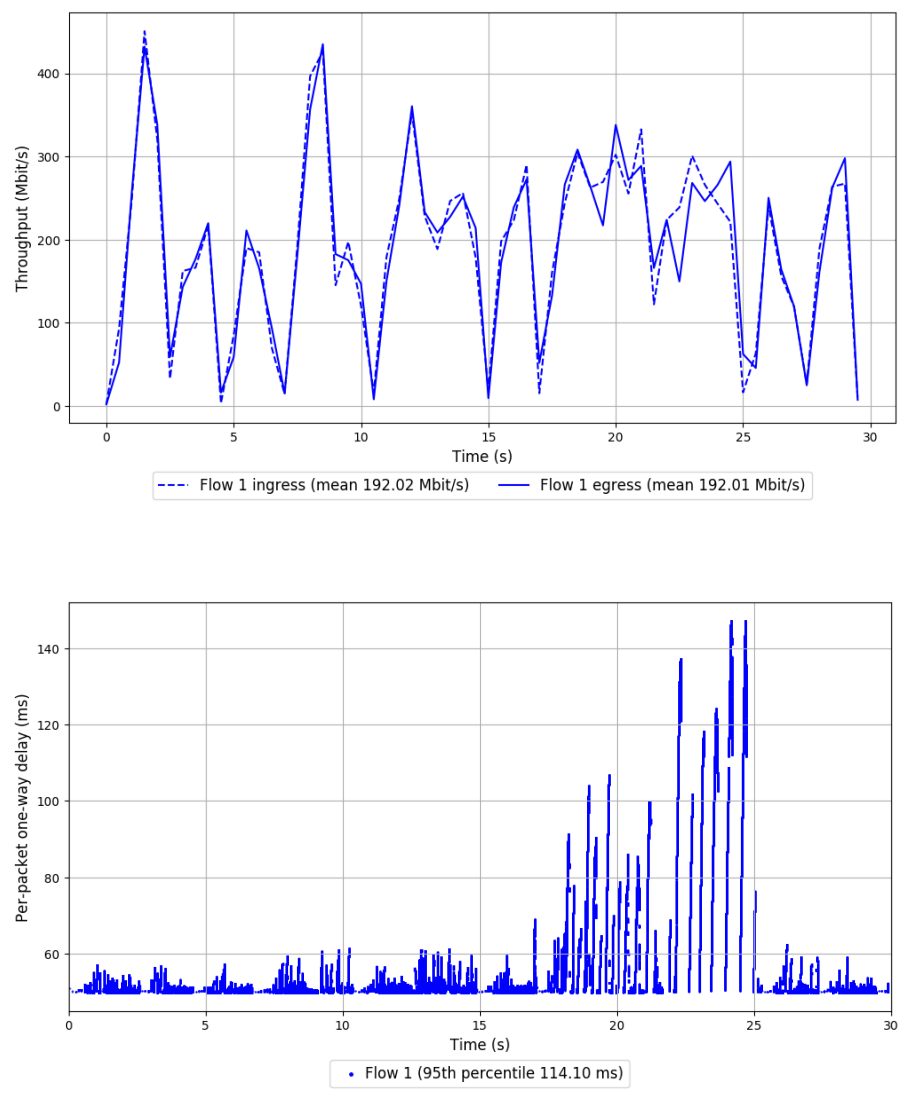
-- Flow 1:

Average throughput: 192.01 Mbit/s

95th percentile per-packet one-way delay: 114.101 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link

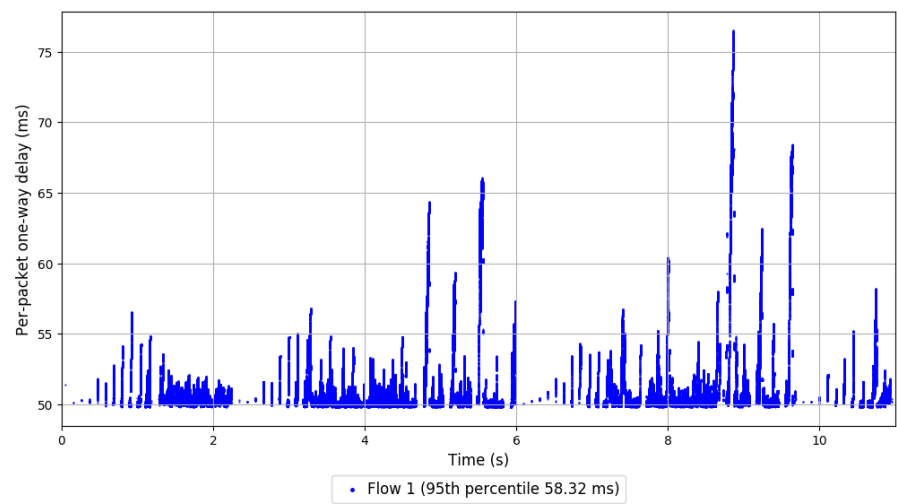
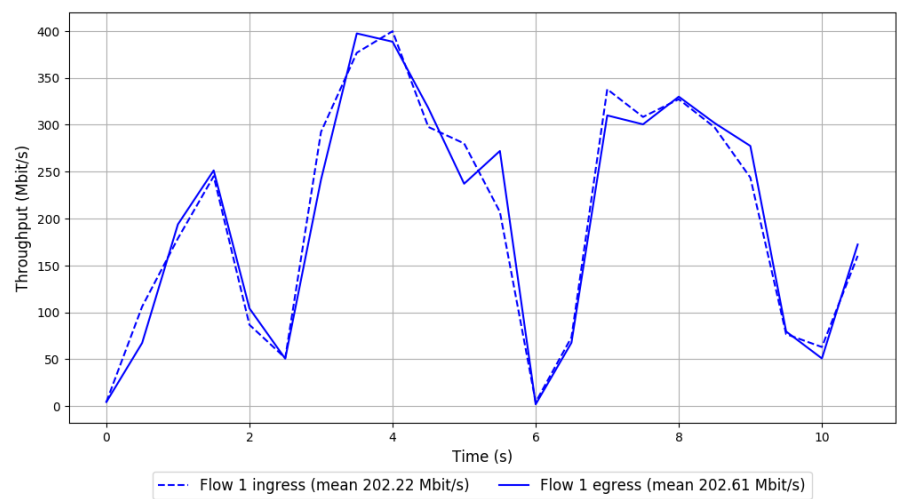


Run 2: Statistics of Verus

Start at: 2017-09-18 04:35:16

End at: 2017-09-18 04:35:47

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-09-18 04:46:23

End at: 2017-09-18 04:46:53

Below is generated by plot.py at 2017-09-18 08:14:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 276.28 Mbit/s

95th percentile per-packet one-way delay: 120.733 ms

Loss rate: 0.07%

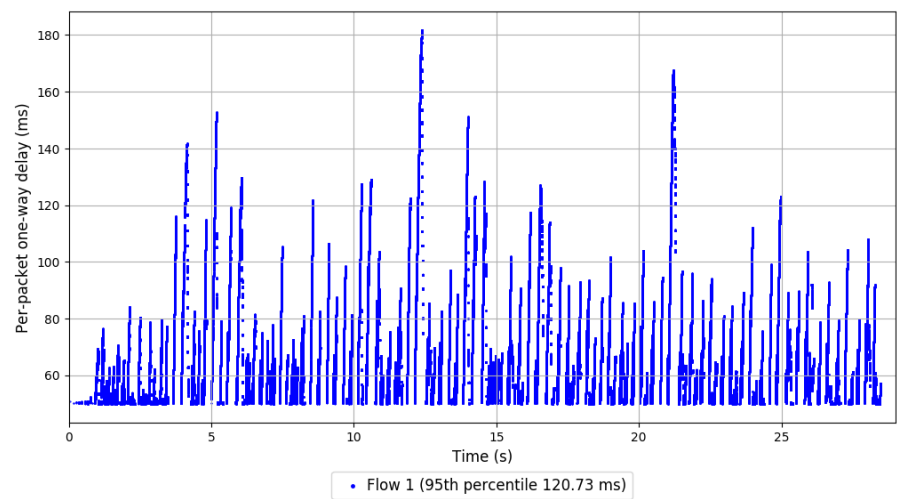
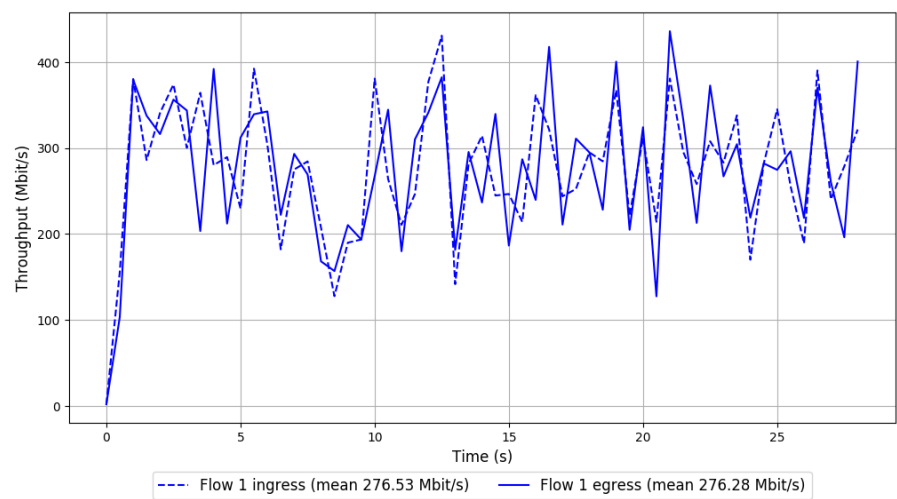
-- Flow 1:

Average throughput: 276.28 Mbit/s

95th percentile per-packet one-way delay: 120.733 ms

Loss rate: 0.07%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-09-18 04:57:53

End at: 2017-09-18 04:58:23

Below is generated by plot.py at 2017-09-18 08:14:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 263.87 Mbit/s

95th percentile per-packet one-way delay: 153.164 ms

Loss rate: 0.28%

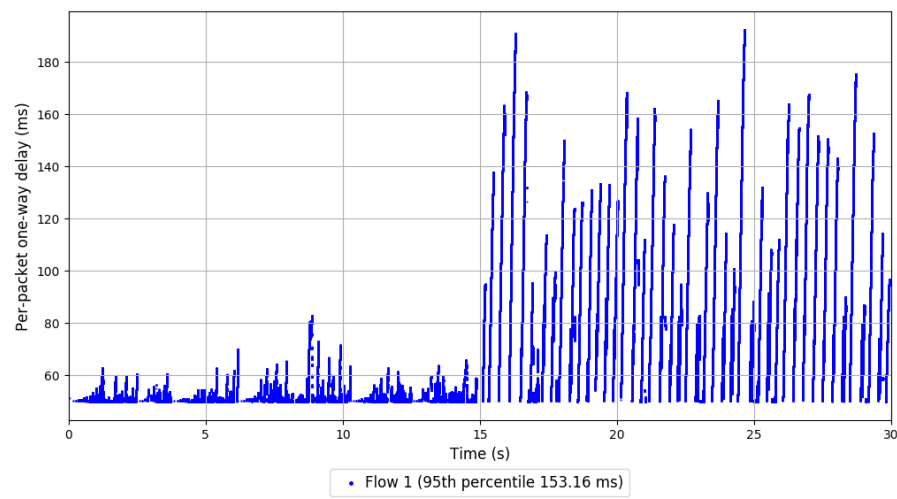
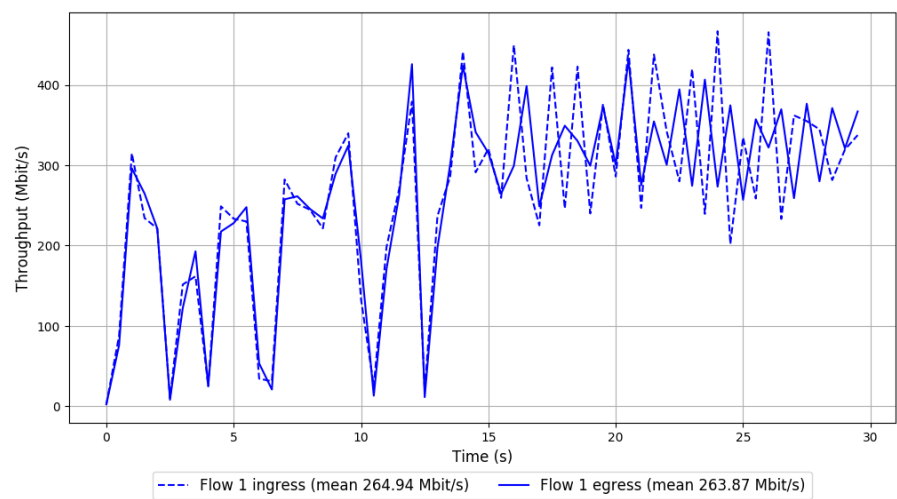
-- Flow 1:

Average throughput: 263.87 Mbit/s

95th percentile per-packet one-way delay: 153.164 ms

Loss rate: 0.28%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-09-18 05:09:18

End at: 2017-09-18 05:09:48

Below is generated by plot.py at 2017-09-18 08:14:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 232.06 Mbit/s

95th percentile per-packet one-way delay: 78.239 ms

Loss rate: 0.01%

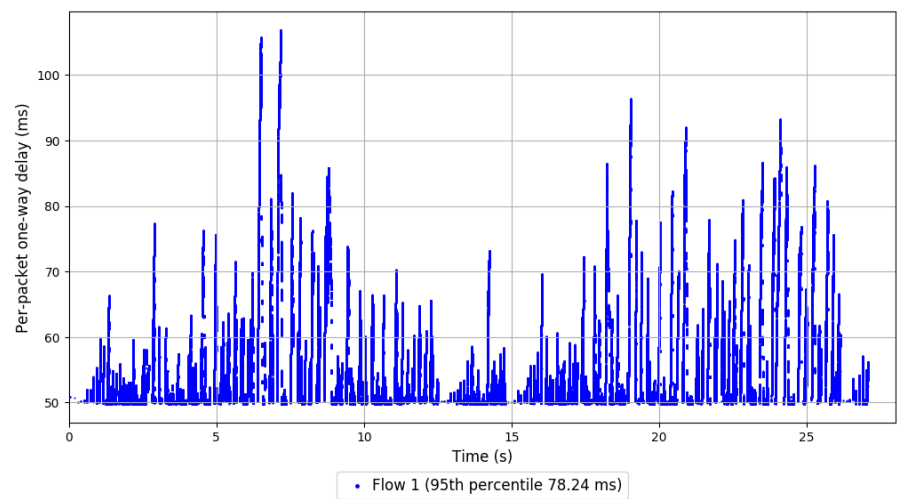
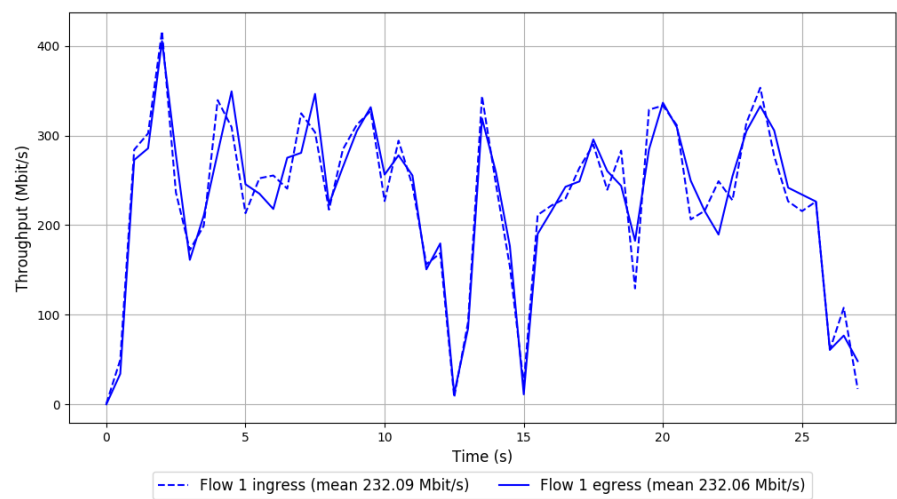
-- Flow 1:

Average throughput: 232.06 Mbit/s

95th percentile per-packet one-way delay: 78.239 ms

Loss rate: 0.01%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-09-18 05:21:02

End at: 2017-09-18 05:21:32

Below is generated by plot.py at 2017-09-18 08:14:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.54 Mbit/s

95th percentile per-packet one-way delay: 69.169 ms

Loss rate: 0.00%

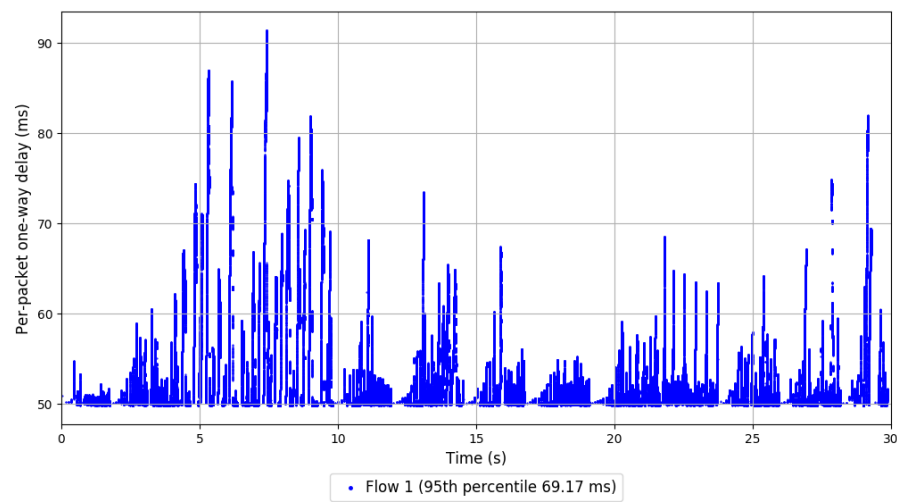
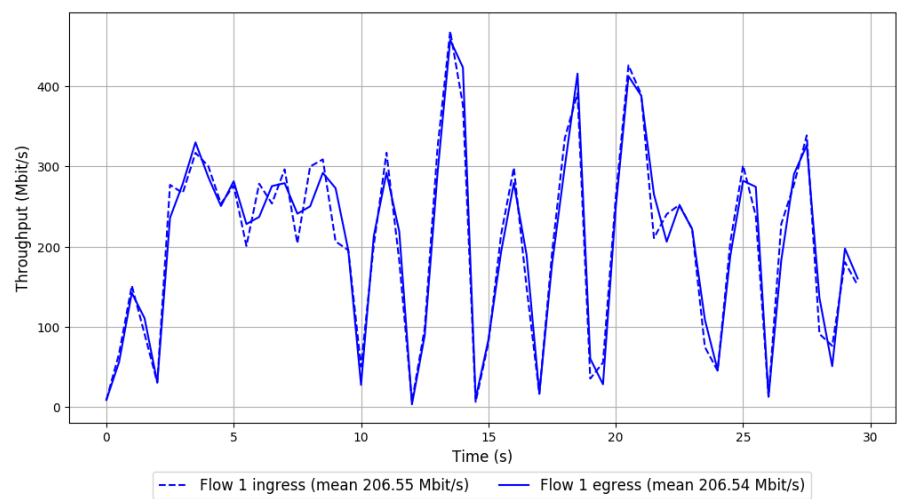
-- Flow 1:

Average throughput: 206.54 Mbit/s

95th percentile per-packet one-way delay: 69.169 ms

Loss rate: 0.00%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-09-18 05:32:19

End at: 2017-09-18 05:32:49

Below is generated by plot.py at 2017-09-18 08:14:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.40 Mbit/s

95th percentile per-packet one-way delay: 99.454 ms

Loss rate: 0.01%

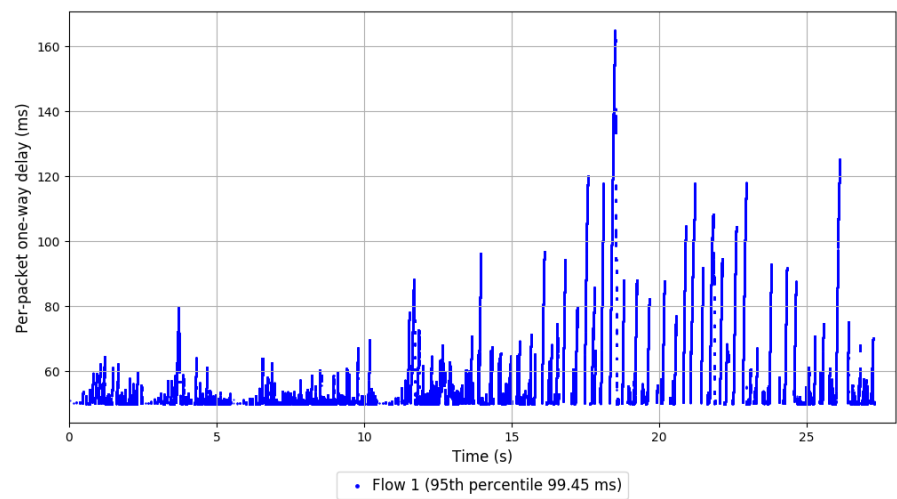
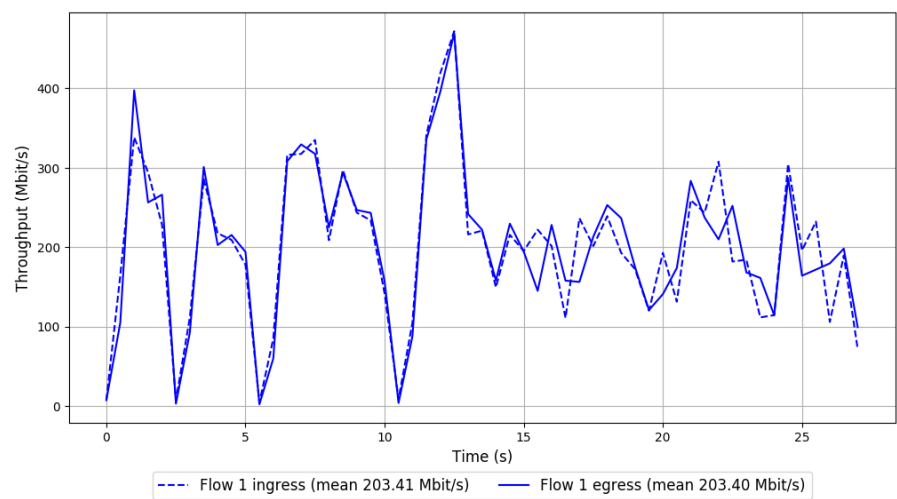
-- Flow 1:

Average throughput: 203.40 Mbit/s

95th percentile per-packet one-way delay: 99.454 ms

Loss rate: 0.01%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-09-18 05:43:34

End at: 2017-09-18 05:44:04

Below is generated by plot.py at 2017-09-18 08:15:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 284.70 Mbit/s

95th percentile per-packet one-way delay: 55.914 ms

Loss rate: 0.01%

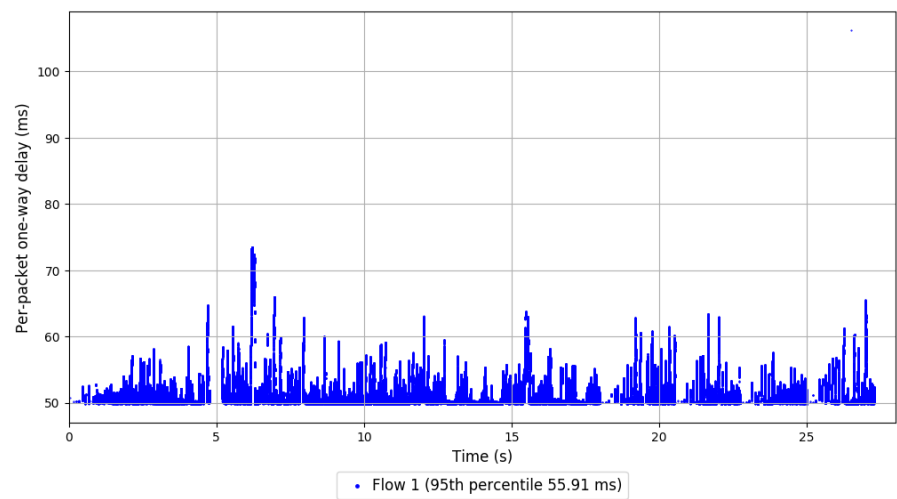
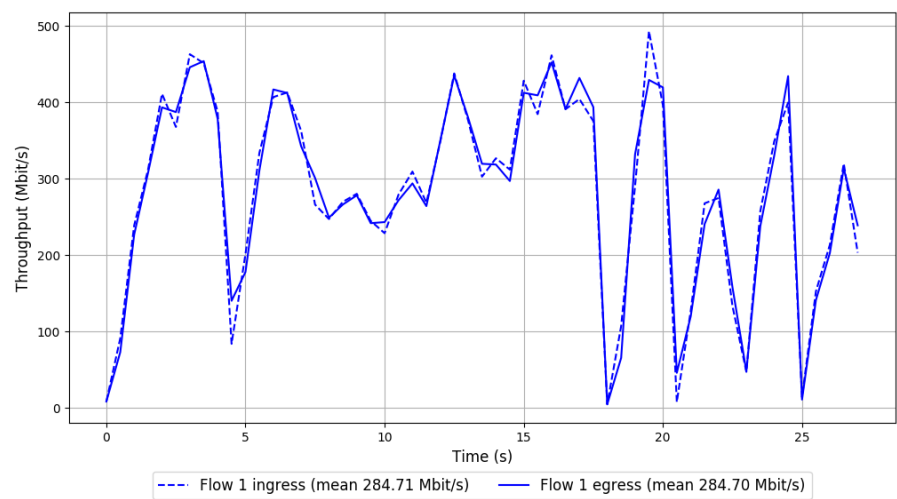
-- Flow 1:

Average throughput: 284.70 Mbit/s

95th percentile per-packet one-way delay: 55.914 ms

Loss rate: 0.01%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-09-18 05:55:01

End at: 2017-09-18 05:55:31

Below is generated by plot.py at 2017-09-18 08:15:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 244.57 Mbit/s

95th percentile per-packet one-way delay: 77.570 ms

Loss rate: 0.01%

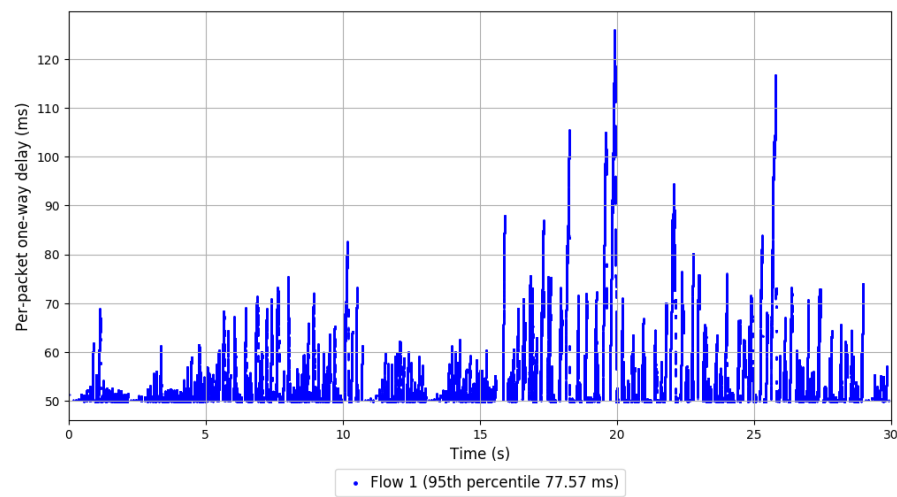
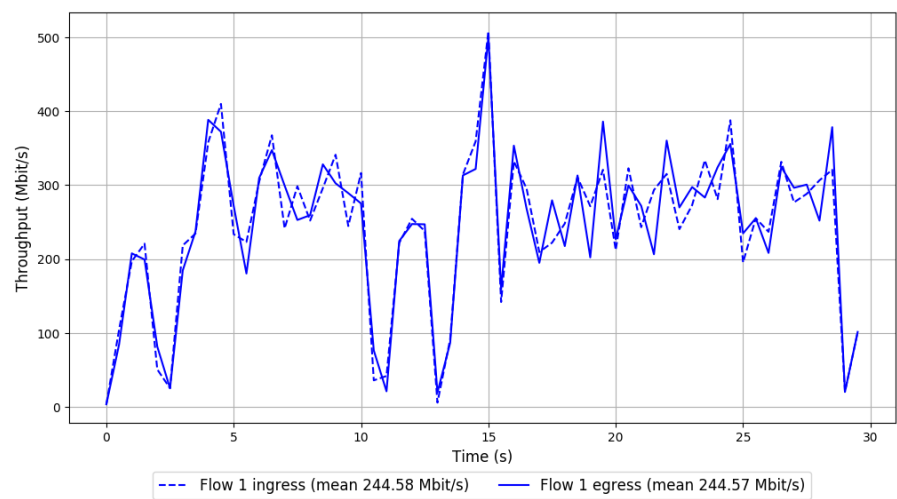
-- Flow 1:

Average throughput: 244.57 Mbit/s

95th percentile per-packet one-way delay: 77.570 ms

Loss rate: 0.01%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-09-18 06:06:24

End at: 2017-09-18 06:06:54

Below is generated by plot.py at 2017-09-18 08:15:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.97 Mbit/s

95th percentile per-packet one-way delay: 127.667 ms

Loss rate: 0.85%

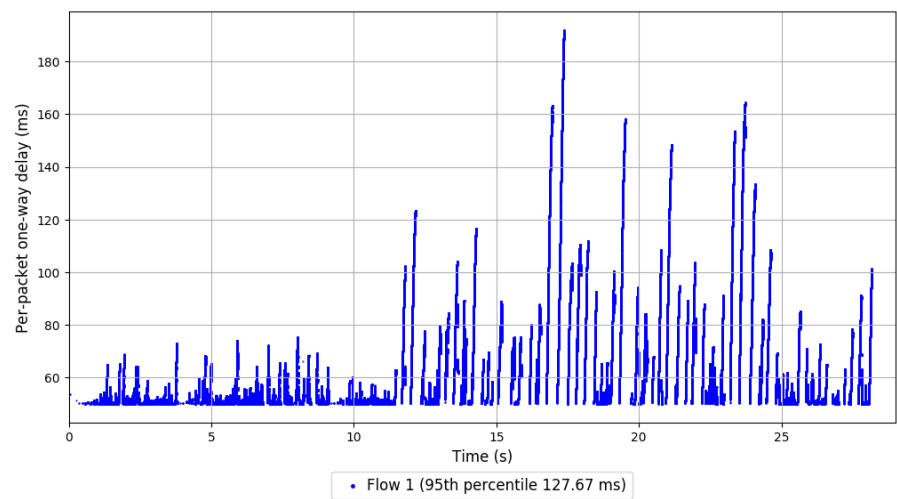
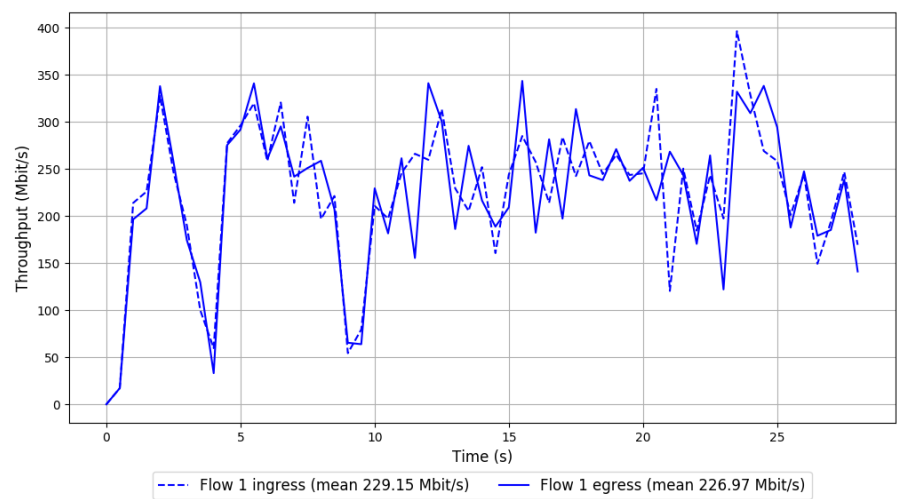
-- Flow 1:

Average throughput: 226.97 Mbit/s

95th percentile per-packet one-way delay: 127.667 ms

Loss rate: 0.85%

Run 10: Report of Verus — Data Link

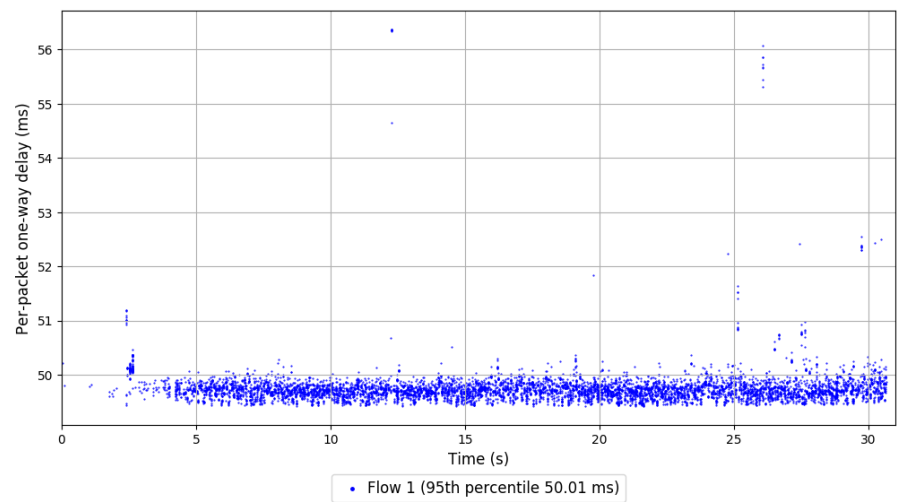
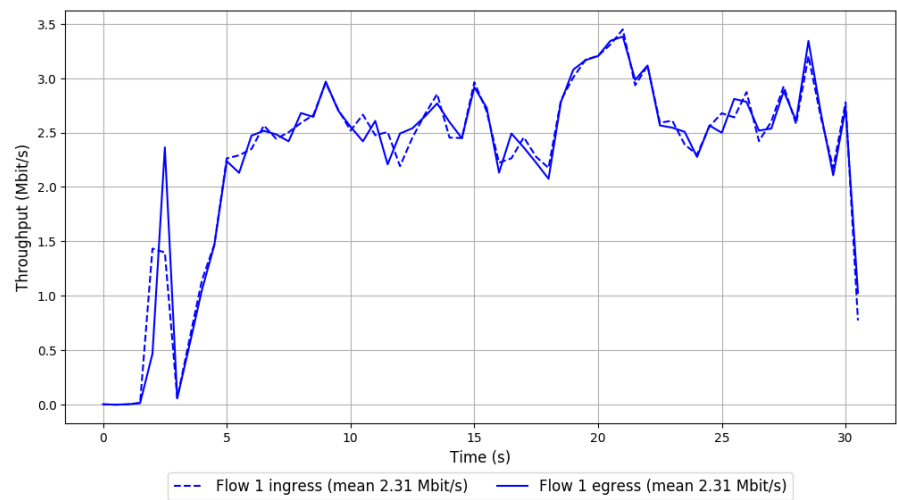


```
Run 1: Statistics of WebRTC media

Start at: 2017-09-18 04:29:46
End at: 2017-09-18 04:30:16

# Below is generated by plot.py at 2017-09-18 08:15:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 50.007 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 50.007 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-09-18 04:40:53

End at: 2017-09-18 04:41:23

Below is generated by plot.py at 2017-09-18 08:15:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

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

Loss rate: 0.00%

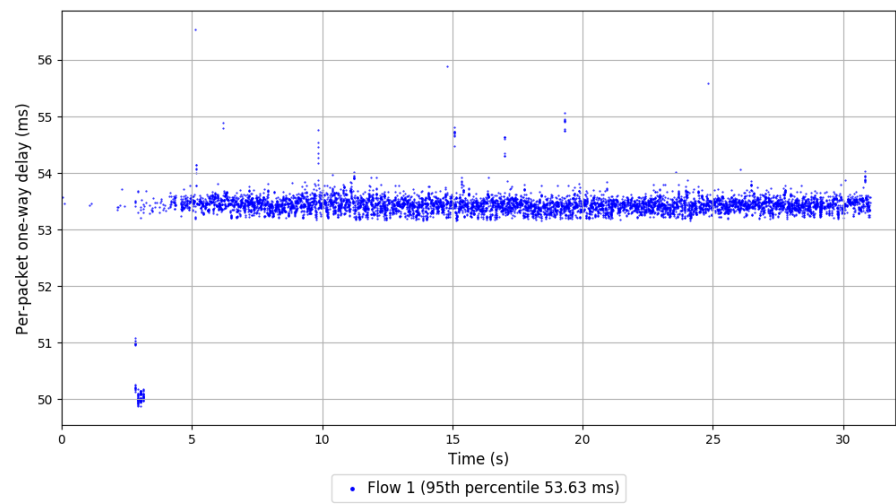
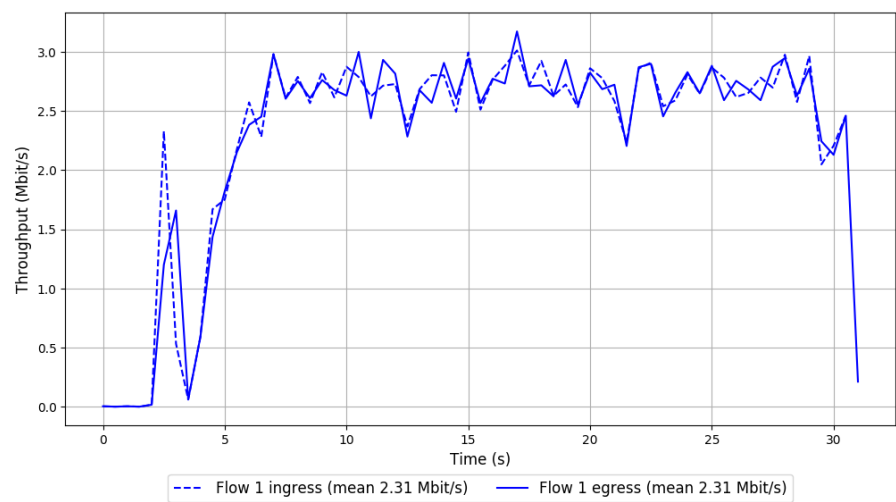
-- Flow 1:

Average throughput: 2.31 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-09-18 04:52:32

End at: 2017-09-18 04:53:02

Below is generated by plot.py at 2017-09-18 08:15:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 52.852 ms

Loss rate: 0.00%

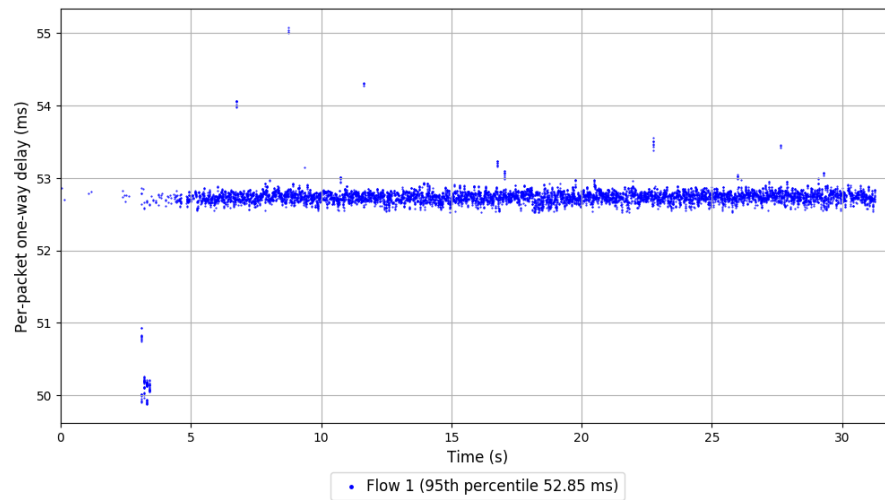
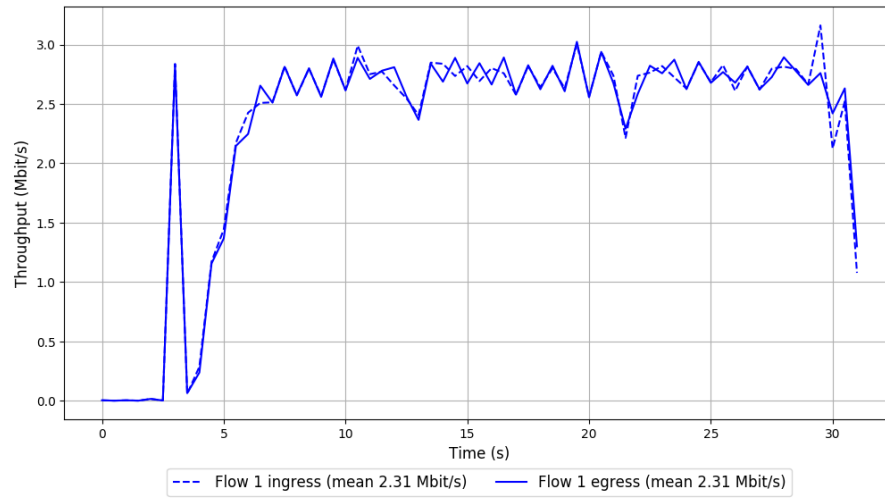
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 52.852 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-09-18 05:03:46

End at: 2017-09-18 05:04:16

Below is generated by plot.py at 2017-09-18 08:15:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 53.650 ms

Loss rate: 0.00%

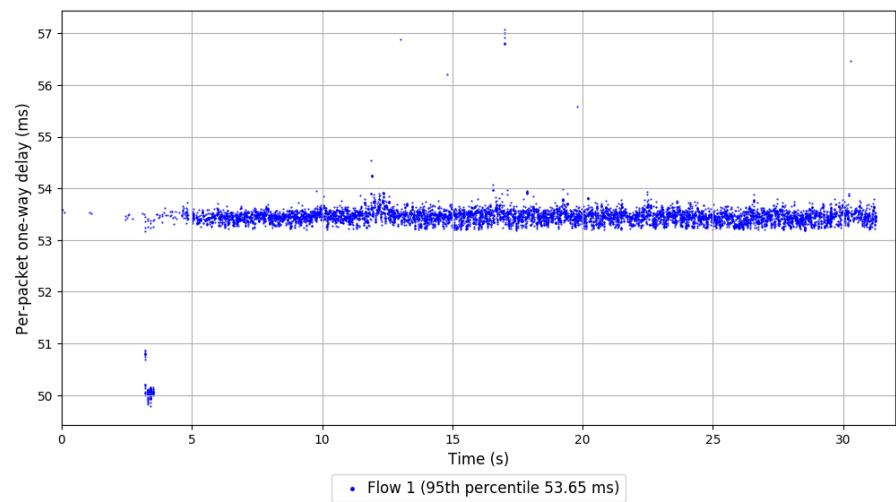
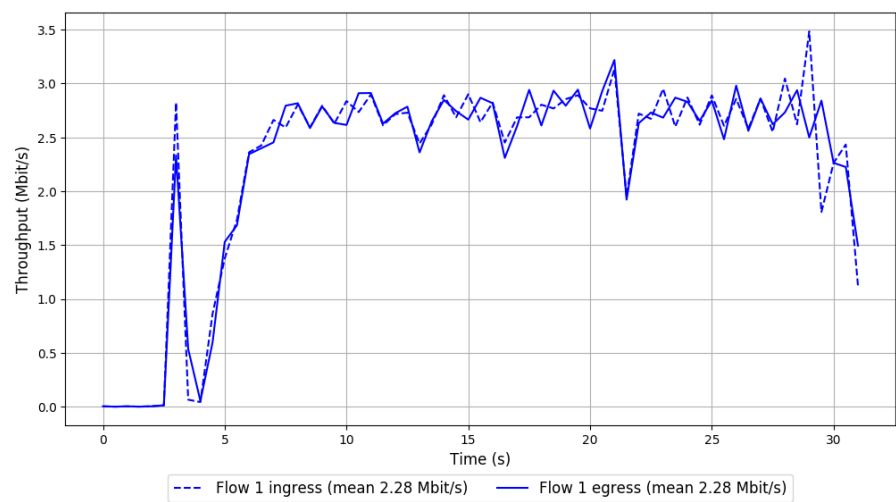
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 53.650 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-09-18 05:15:30

End at: 2017-09-18 05:16:00

Below is generated by plot.py at 2017-09-18 08:15:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 53.716 ms

Loss rate: 0.00%

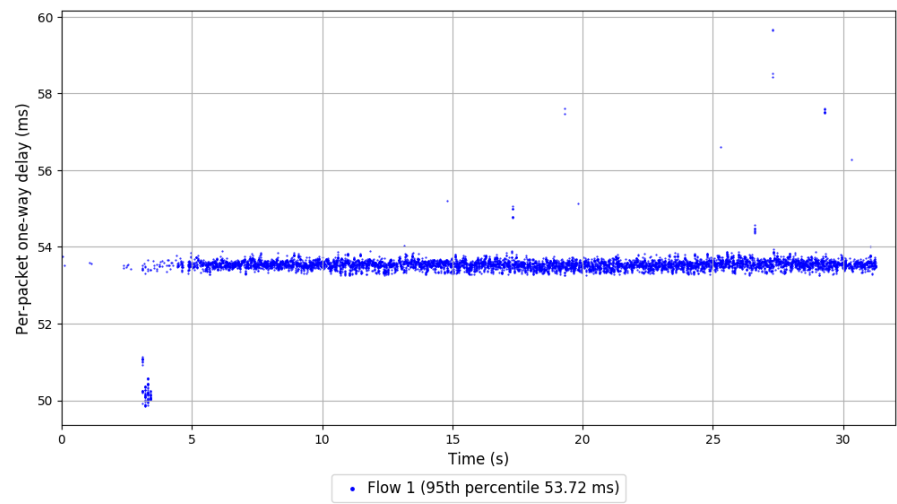
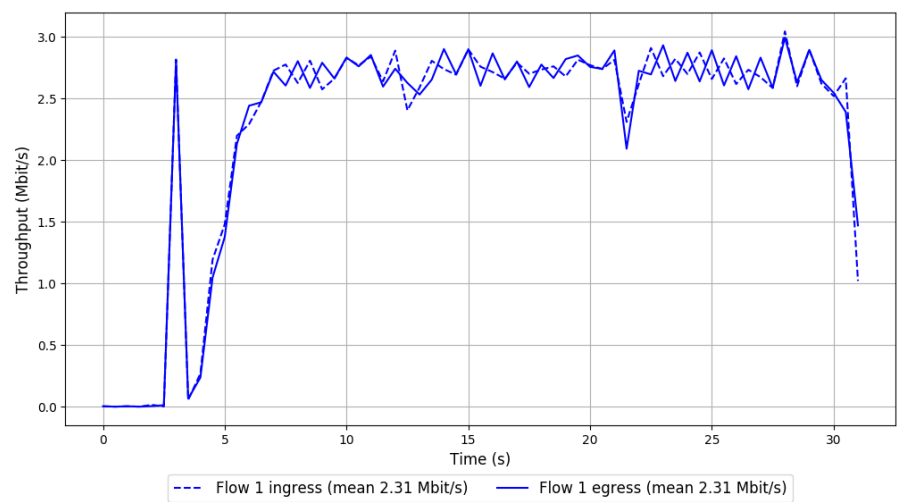
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 53.716 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-09-18 05:26:51

End at: 2017-09-18 05:27:21

Below is generated by plot.py at 2017-09-18 08:15:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 49.901 ms

Loss rate: 0.00%

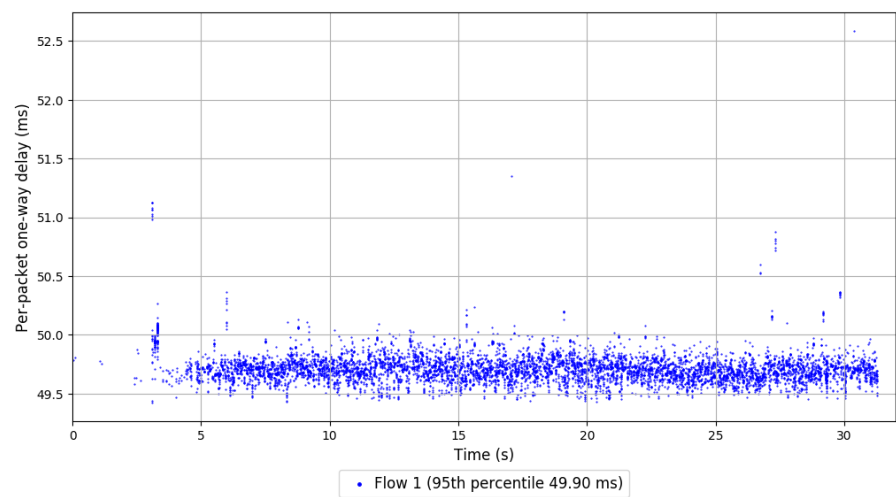
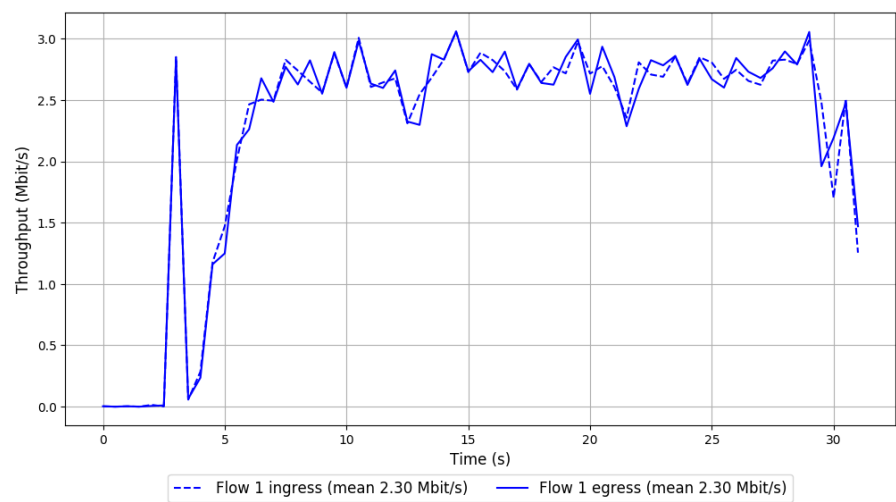
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 49.901 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-09-18 05:38:07

End at: 2017-09-18 05:38:37

Below is generated by plot.py at 2017-09-18 08:15:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 50.208 ms

Loss rate: 0.00%

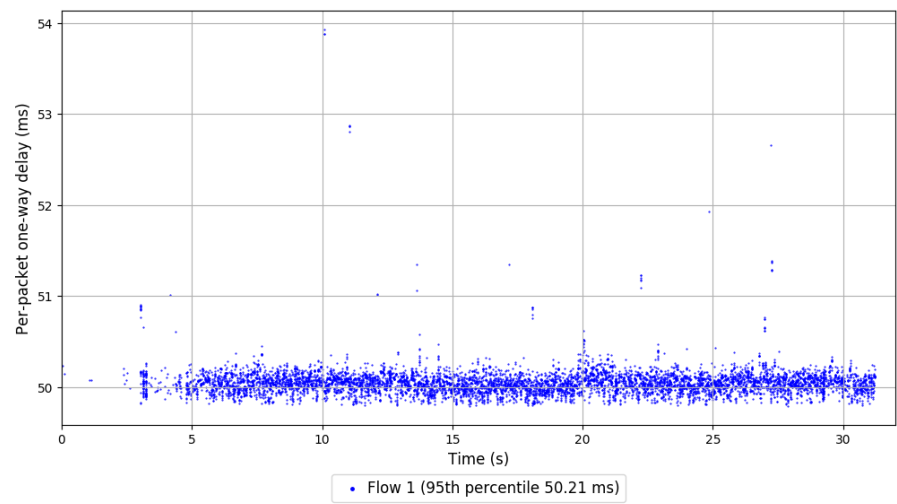
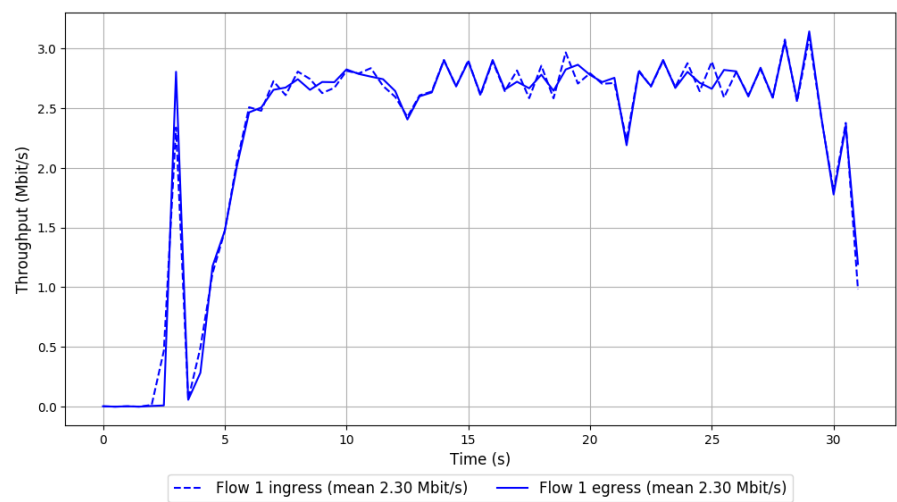
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 50.208 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-09-18 05:49:28

End at: 2017-09-18 05:49:58

Below is generated by plot.py at 2017-09-18 08:15:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.734 ms

Loss rate: 0.00%

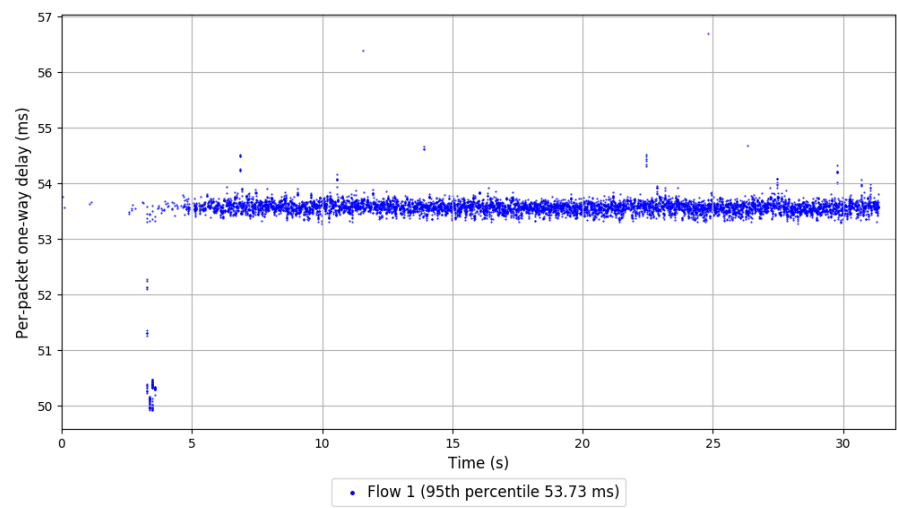
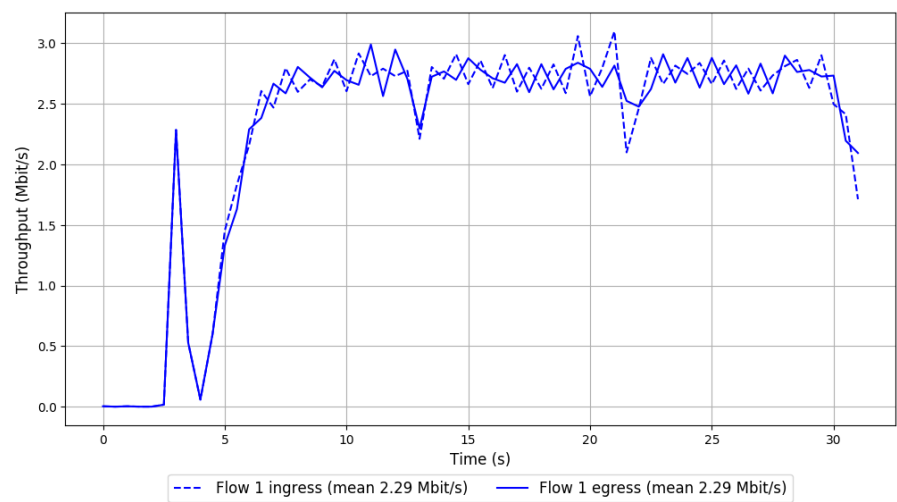
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.734 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-09-18 06:00:52

End at: 2017-09-18 06:01:22

Below is generated by plot.py at 2017-09-18 08:15:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 49.950 ms

Loss rate: 0.00%

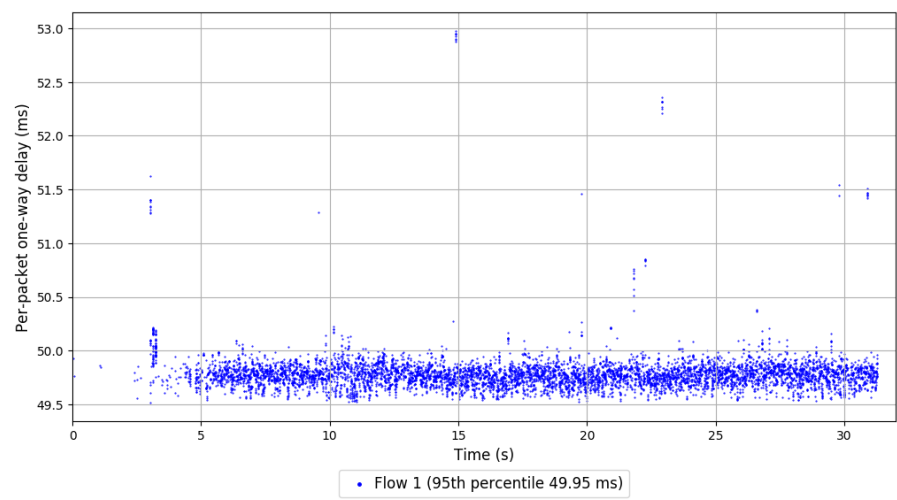
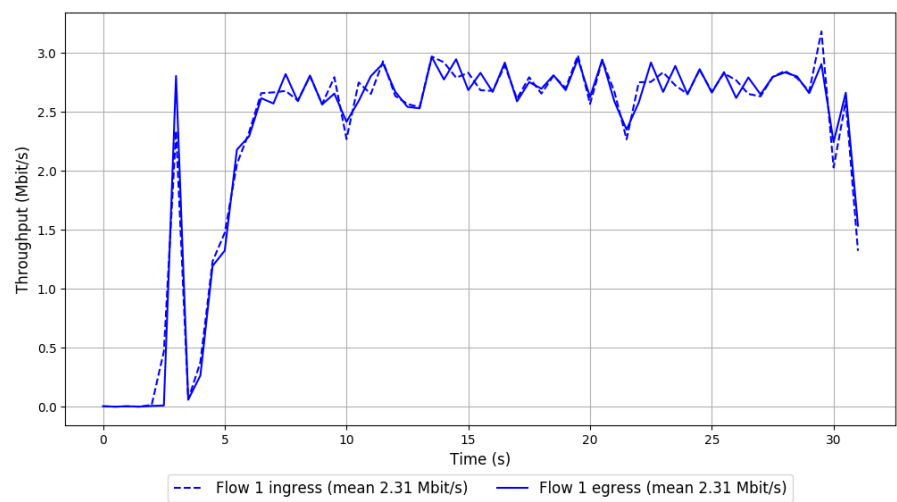
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 49.950 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-09-18 06:12:15

End at: 2017-09-18 06:12:45

Below is generated by plot.py at 2017-09-18 08:15:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 50.062 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 50.062 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

