

Pantheon Report

Generated at 2017-08-16 23:11:54 (UTC).

Data path: GCE Sydney Ethernet (*remote*) → GCE Iowa Ethernet (*local*).

Repeated the test of 15 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

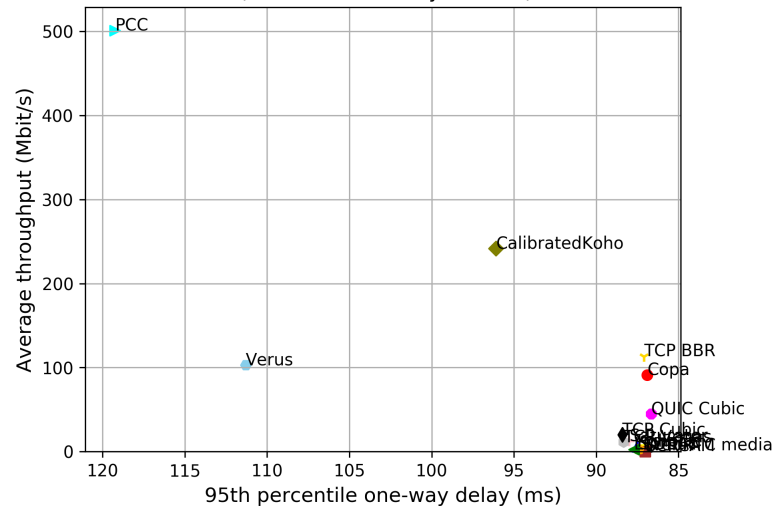
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

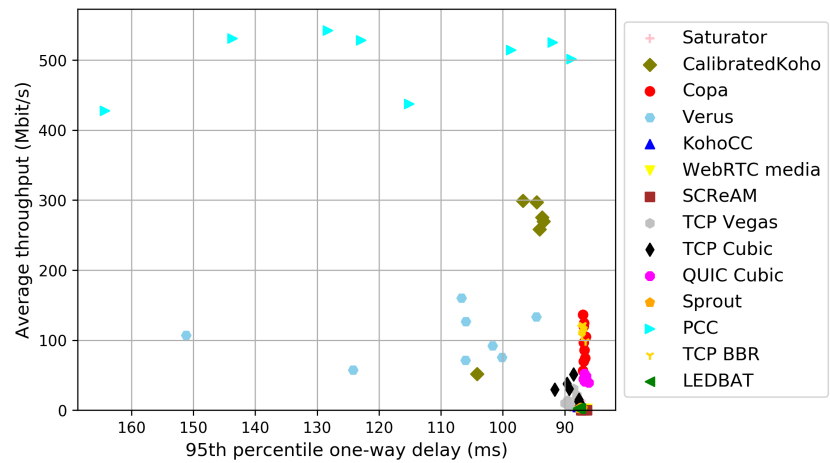
Git summary:

```
branch: master @ e43be7582298d552838afcf6382342bf187fbbd6
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ dae96123232f1bcb37725348fa2378691ce26725
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-stimuli @ fc73a85ca16c34366d1888dc8a0d0d88d4ebf2a7
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 Iowa Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from GCE Sydney Ethernet to GCE Iowa 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	113.16	87.10	0.77
CalibratedKoho	6	241.78	96.09	6.18
Copa	10	91.33	86.89	0.45
TCP Cubic	10	20.09	88.42	1.99
KohoCC	10	6.02	87.52	9.47
LEDBAT	10	2.57	87.71	1.76
PCC	8	501.00	119.24	4.92
QUIC Cubic	9	44.84	86.65	0.61
Saturator	5	12.57	88.00	3.77
SCReAM	8	0.21	87.03	0.46
Sprout	10	2.97	87.40	3.36
TaoVA-100x	0	N/A	N/A	N/A
TCP Vegas	10	11.38	88.34	1.39
Verus	8	102.89	111.30	18.32
WebRTC media	10	2.02	87.03	0.84

Run 1: Statistics of TCP BBR

Start at: 2017-08-16 18:29:41

End at: 2017-08-16 18:30:11

Below is generated by plot.py at 2017-08-16 22:54:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 118.15 Mbit/s

95th percentile per-packet one-way delay: 87.369 ms

Loss rate: 0.84%

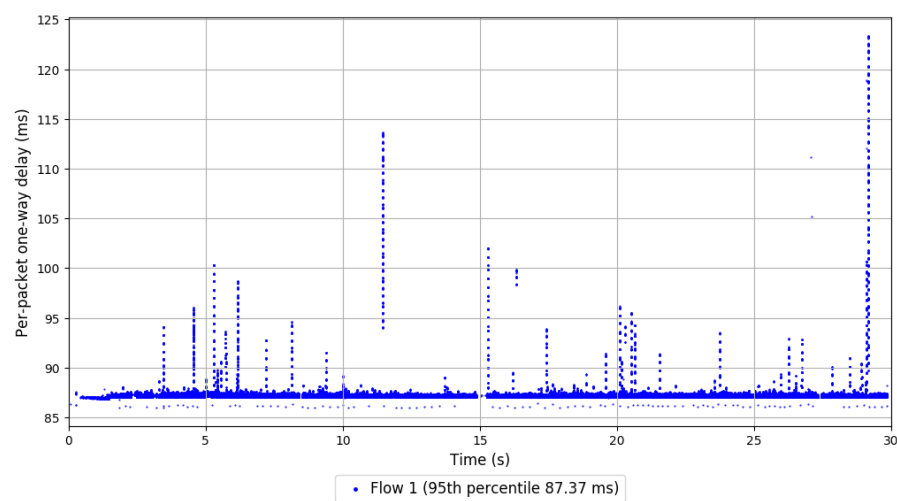
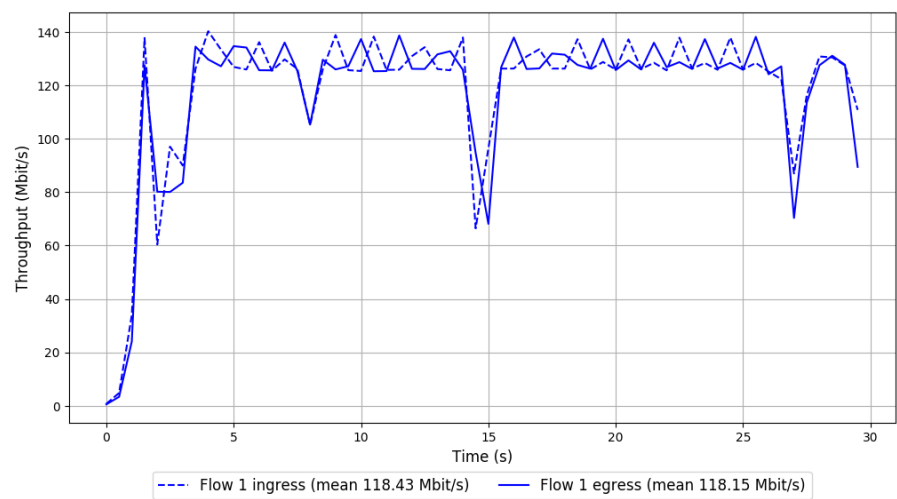
-- Flow 1:

Average throughput: 118.15 Mbit/s

95th percentile per-packet one-way delay: 87.369 ms

Loss rate: 0.84%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-08-16 18:40:25

End at: 2017-08-16 18:40:55

Below is generated by plot.py at 2017-08-16 22:54:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 117.49 Mbit/s

95th percentile per-packet one-way delay: 87.169 ms

Loss rate: 0.65%

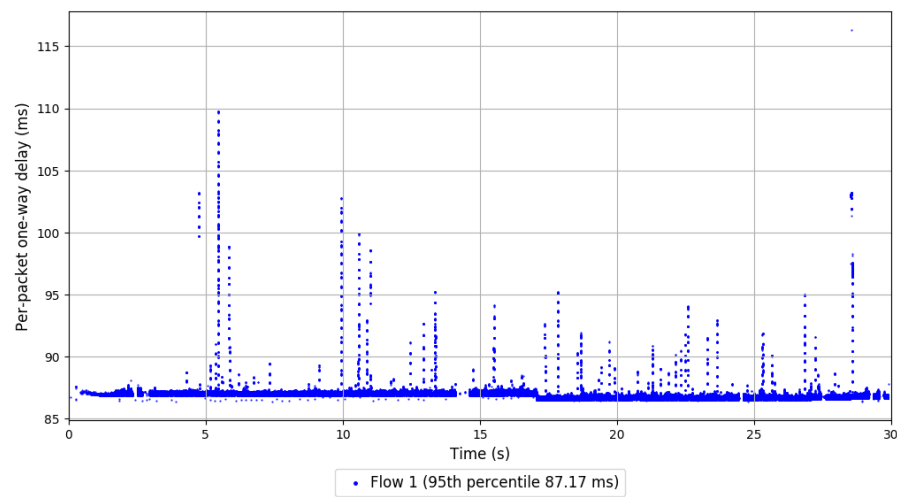
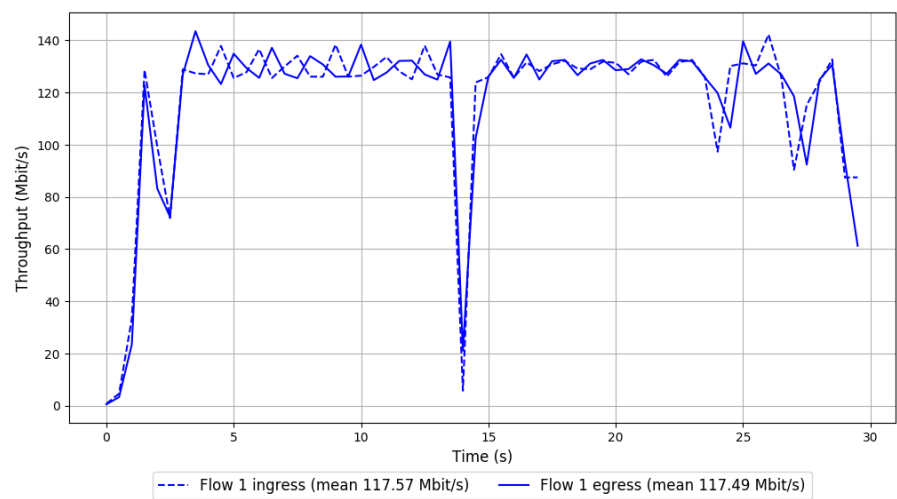
-- Flow 1:

Average throughput: 117.49 Mbit/s

95th percentile per-packet one-way delay: 87.169 ms

Loss rate: 0.65%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-08-16 18:51:10

End at: 2017-08-16 18:51:40

Below is generated by plot.py at 2017-08-16 22:54:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 115.65 Mbit/s

95th percentile per-packet one-way delay: 86.922 ms

Loss rate: 0.73%

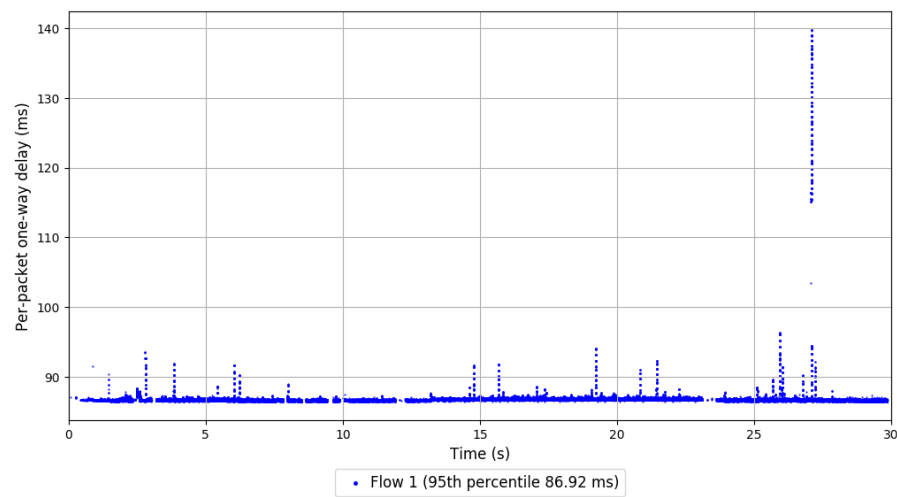
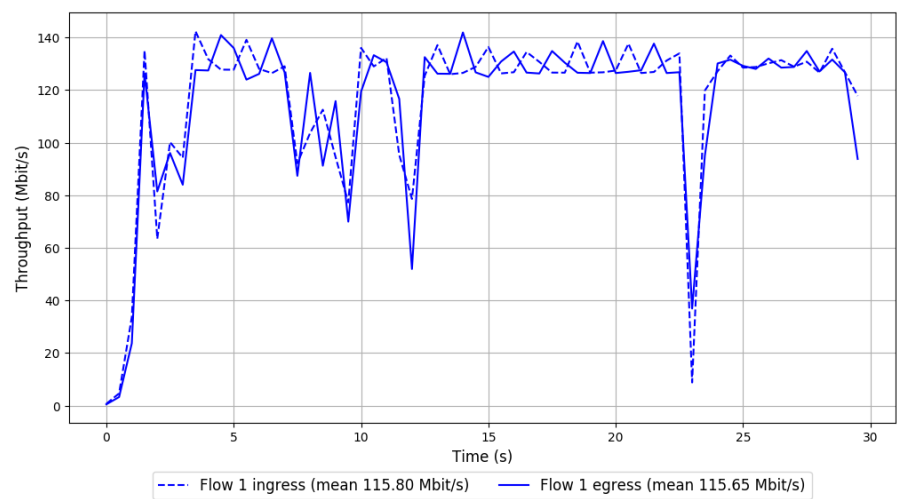
-- Flow 1:

Average throughput: 115.65 Mbit/s

95th percentile per-packet one-way delay: 86.922 ms

Loss rate: 0.73%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-08-16 19:02:11

End at: 2017-08-16 19:02:41

Below is generated by plot.py at 2017-08-16 22:54:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 109.23 Mbit/s

95th percentile per-packet one-way delay: 87.214 ms

Loss rate: 0.94%

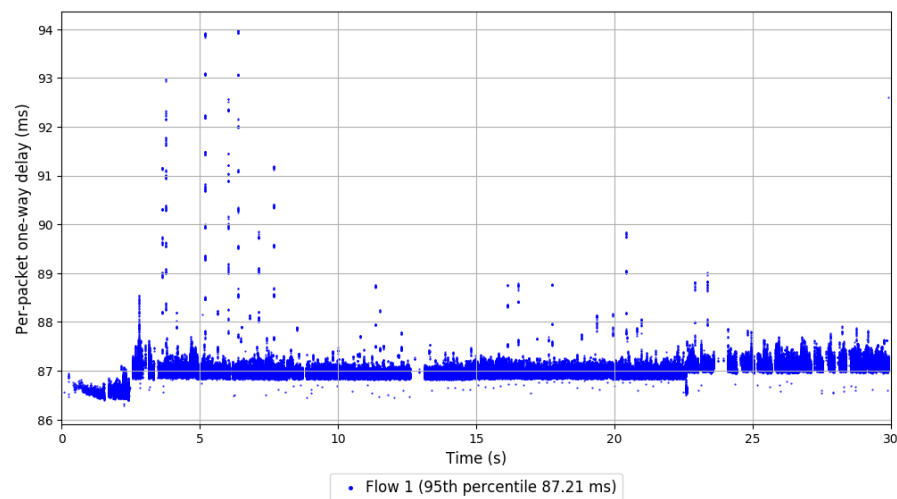
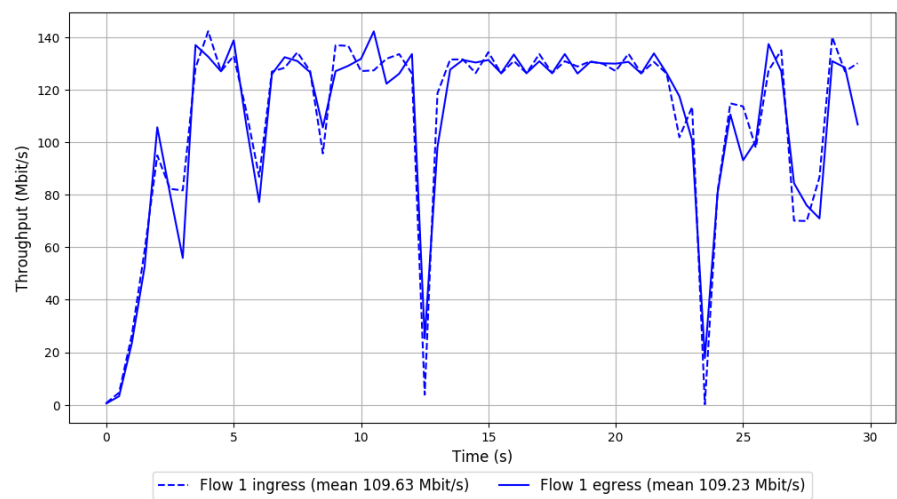
-- Flow 1:

Average throughput: 109.23 Mbit/s

95th percentile per-packet one-way delay: 87.214 ms

Loss rate: 0.94%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-08-16 19:13:25

End at: 2017-08-16 19:13:55

Below is generated by plot.py at 2017-08-16 22:55:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.90 Mbit/s

95th percentile per-packet one-way delay: 86.641 ms

Loss rate: 0.95%

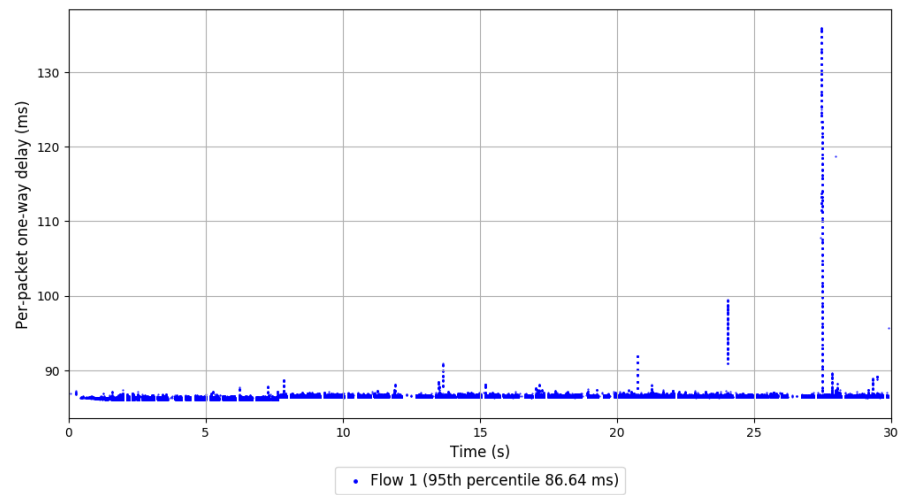
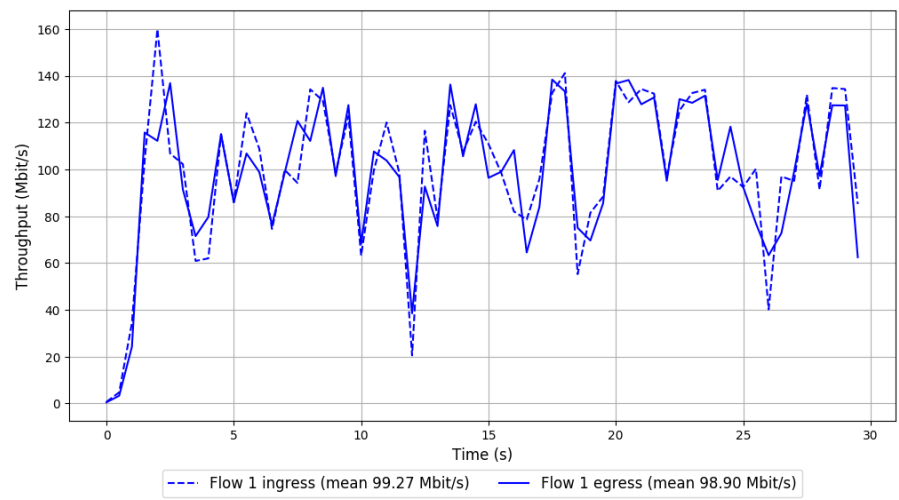
-- Flow 1:

Average throughput: 98.90 Mbit/s

95th percentile per-packet one-way delay: 86.641 ms

Loss rate: 0.95%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-08-16 19:24:37

End at: 2017-08-16 19:25:07

Below is generated by plot.py at 2017-08-16 22:55:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 112.27 Mbit/s

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

Loss rate: 0.67%

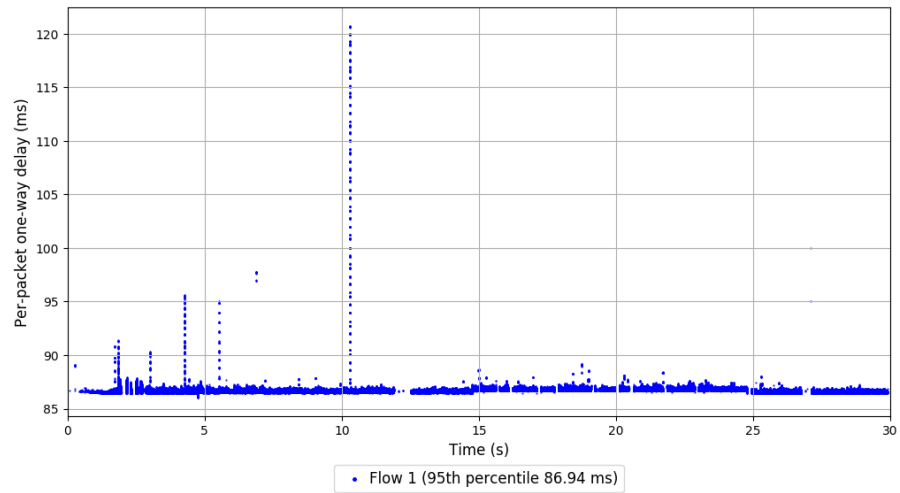
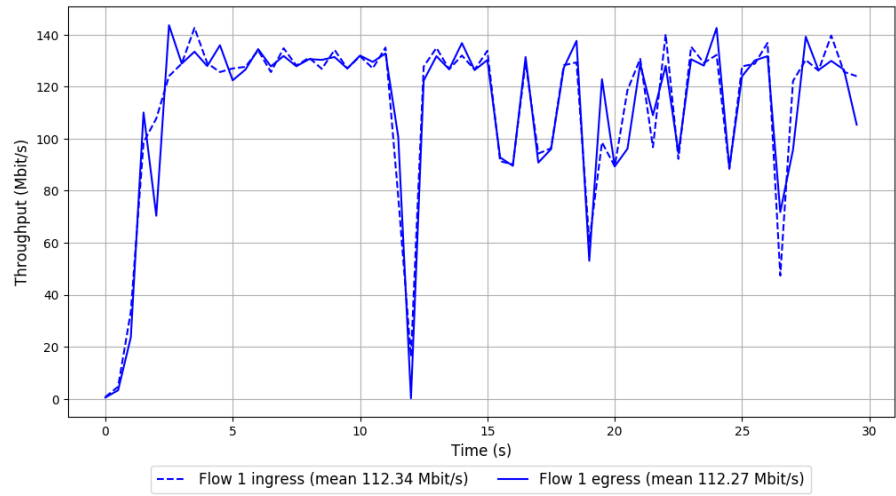
-- Flow 1:

Average throughput: 112.27 Mbit/s

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

Loss rate: 0.67%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-08-16 19:35:43

End at: 2017-08-16 19:36:13

Below is generated by plot.py at 2017-08-16 22:55:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 111.44 Mbit/s

95th percentile per-packet one-way delay: 87.140 ms

Loss rate: 0.85%

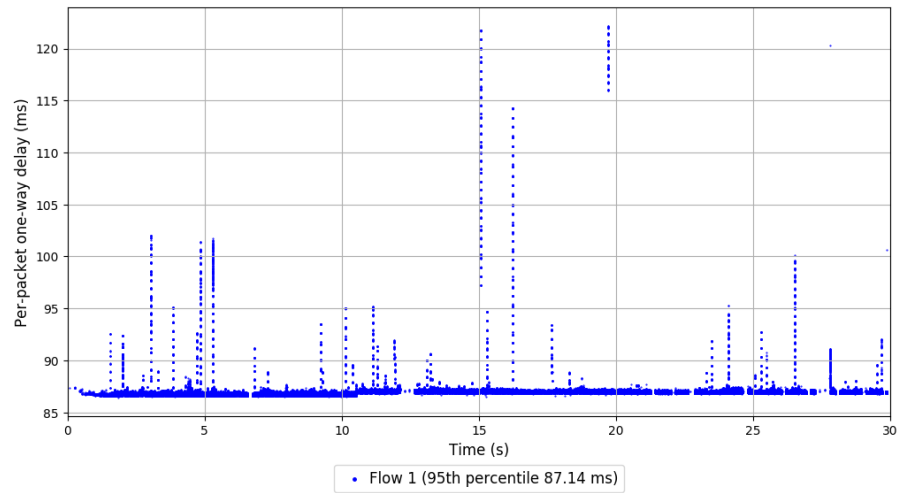
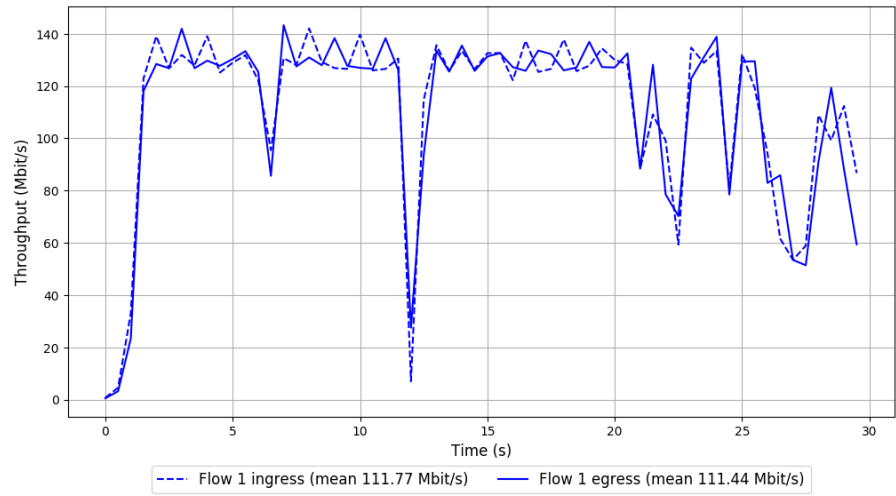
-- Flow 1:

Average throughput: 111.44 Mbit/s

95th percentile per-packet one-way delay: 87.140 ms

Loss rate: 0.85%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-08-16 19:46:30

End at: 2017-08-16 19:47:00

Below is generated by plot.py at 2017-08-16 22:55:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 119.91 Mbit/s

95th percentile per-packet one-way delay: 87.224 ms

Loss rate: 0.63%

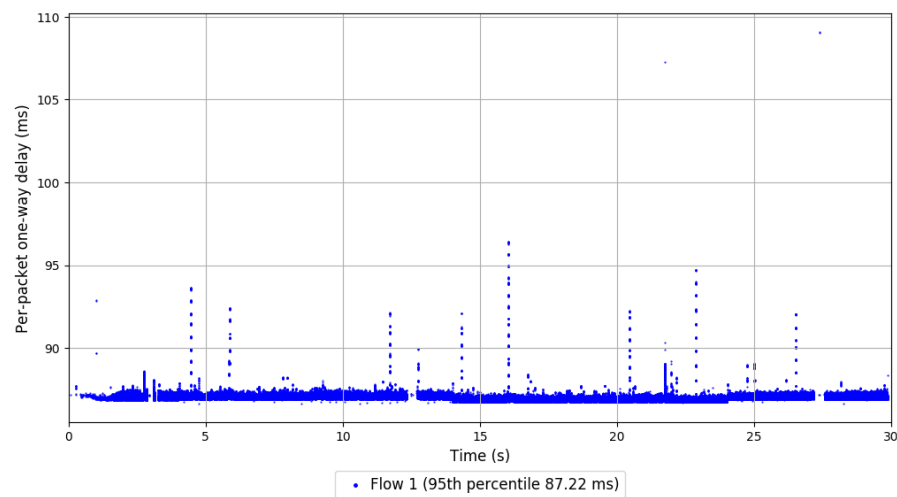
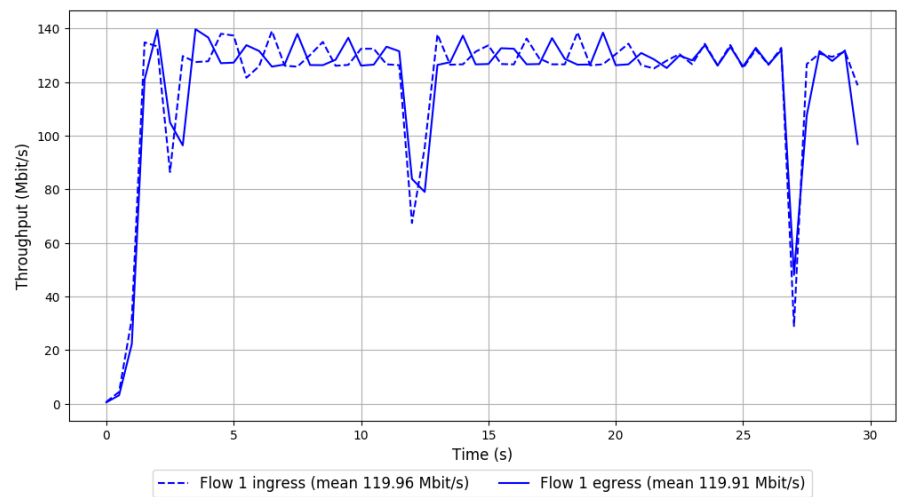
-- Flow 1:

Average throughput: 119.91 Mbit/s

95th percentile per-packet one-way delay: 87.224 ms

Loss rate: 0.63%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-08-16 19:57:32

End at: 2017-08-16 19:58:02

Below is generated by plot.py at 2017-08-16 22:55:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.55 Mbit/s

95th percentile per-packet one-way delay: 87.231 ms

Loss rate: 0.81%

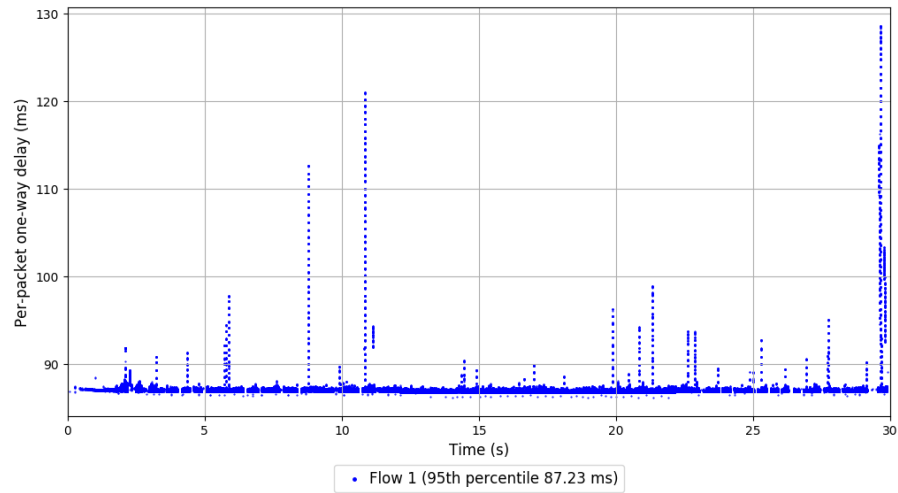
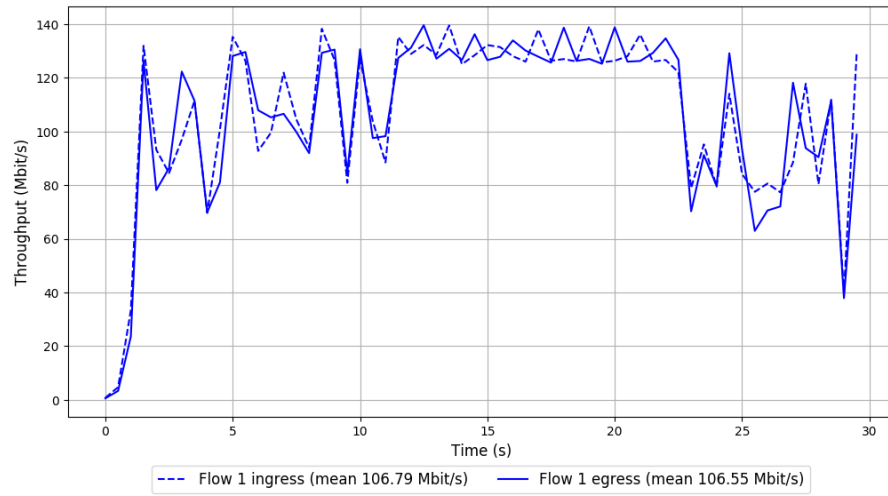
-- Flow 1:

Average throughput: 106.55 Mbit/s

95th percentile per-packet one-way delay: 87.231 ms

Loss rate: 0.81%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-08-16 20:09:00

End at: 2017-08-16 20:09:30

Below is generated by plot.py at 2017-08-16 22:55:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 122.01 Mbit/s

95th percentile per-packet one-way delay: 87.133 ms

Loss rate: 0.67%

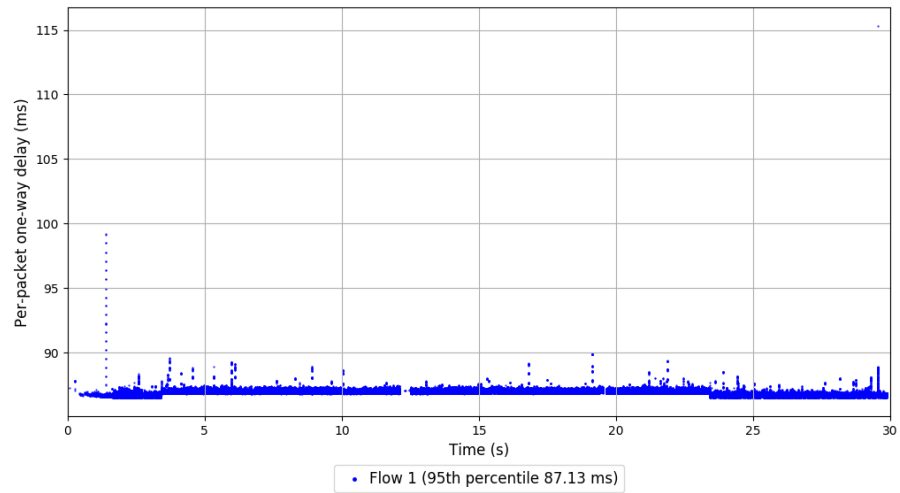
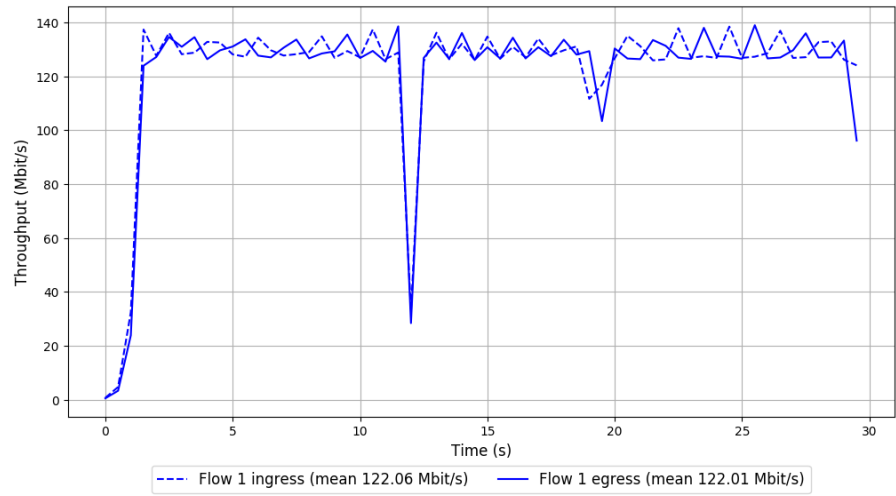
-- Flow 1:

Average throughput: 122.01 Mbit/s

95th percentile per-packet one-way delay: 87.133 ms

Loss rate: 0.67%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of CalibratedKoho

Start at: 2017-08-16 18:31:27

End at: 2017-08-16 18:31:57

Below is generated by plot.py at 2017-08-16 22:55:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.60 Mbit/s

95th percentile per-packet one-way delay: 104.161 ms

Loss rate: 30.69%

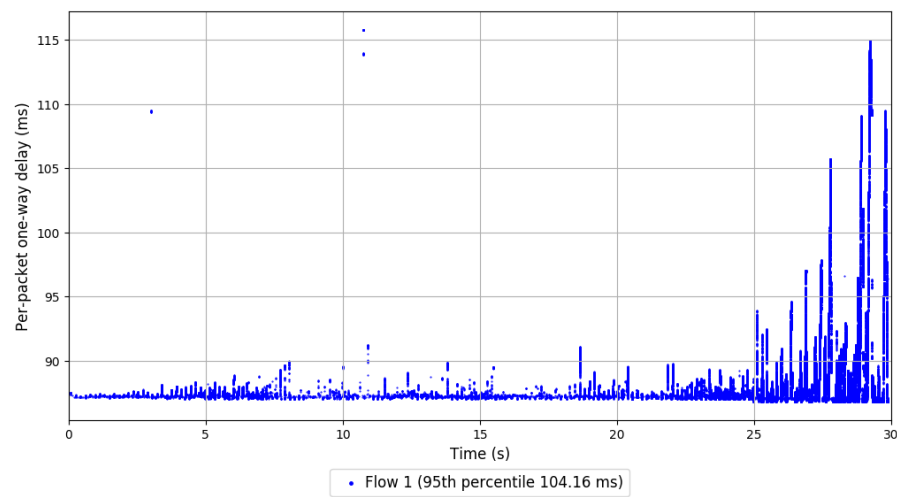
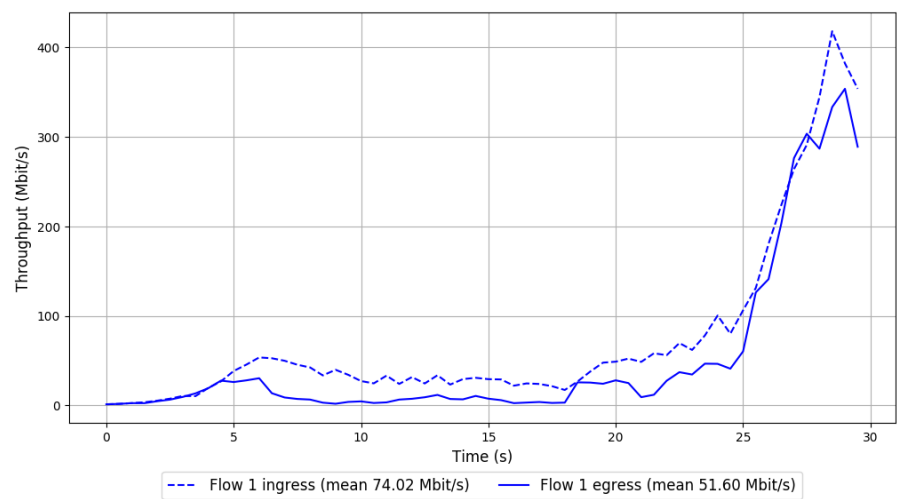
-- Flow 1:

Average throughput: 51.60 Mbit/s

95th percentile per-packet one-way delay: 104.161 ms

Loss rate: 30.69%

Run 1: Report of CalibratedKoho — Data Link



Run 2: Statistics of CalibratedKoho

Start at: 2017-08-16 18:41:50

End at: 2017-08-16 18:42:20

Below is generated by plot.py at 2017-08-16 22:56:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 299.12 Mbit/s

95th percentile per-packet one-way delay: 96.757 ms

Loss rate: 0.90%

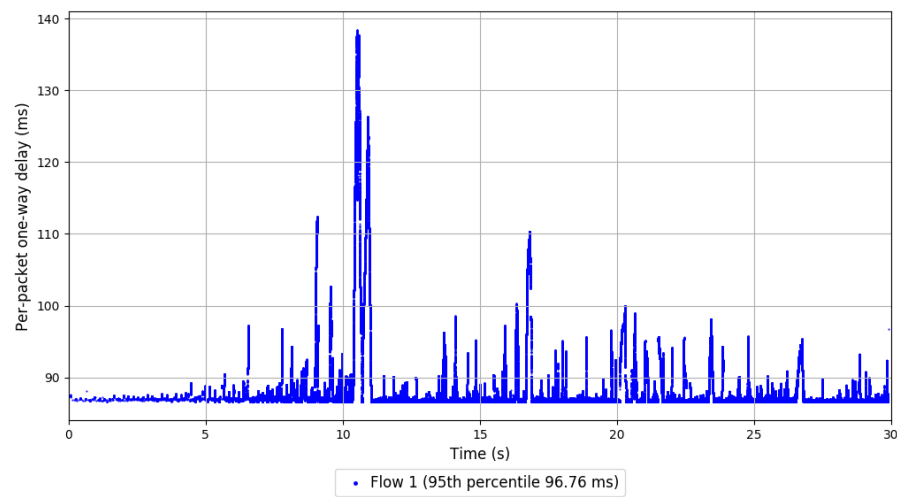
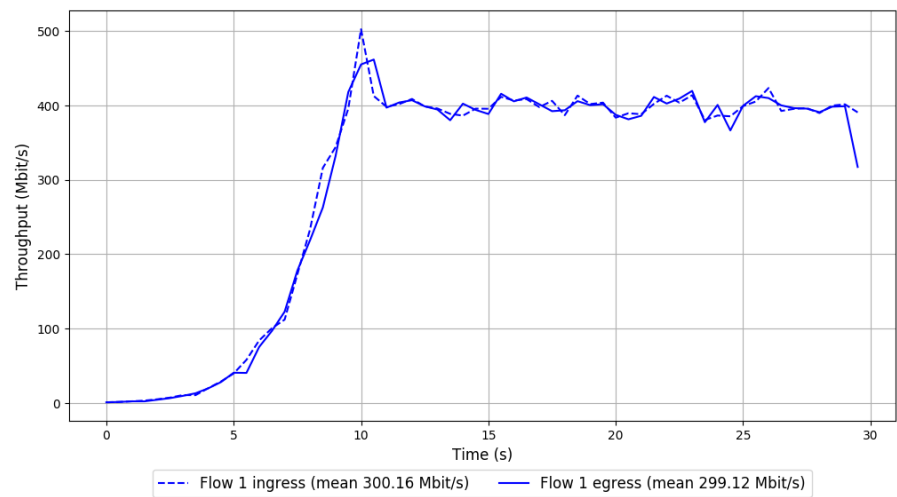
-- Flow 1:

Average throughput: 299.12 Mbit/s

95th percentile per-packet one-way delay: 96.757 ms

Loss rate: 0.90%

Run 2: Report of CalibratedKoho — Data Link

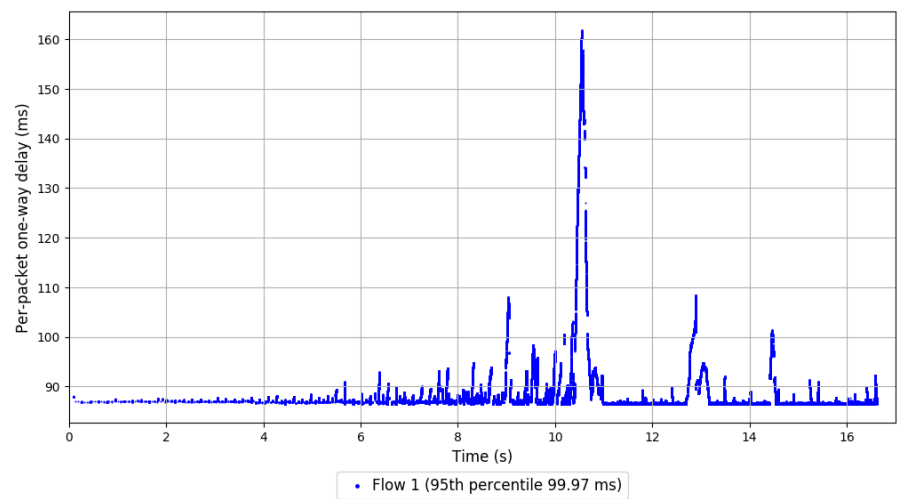
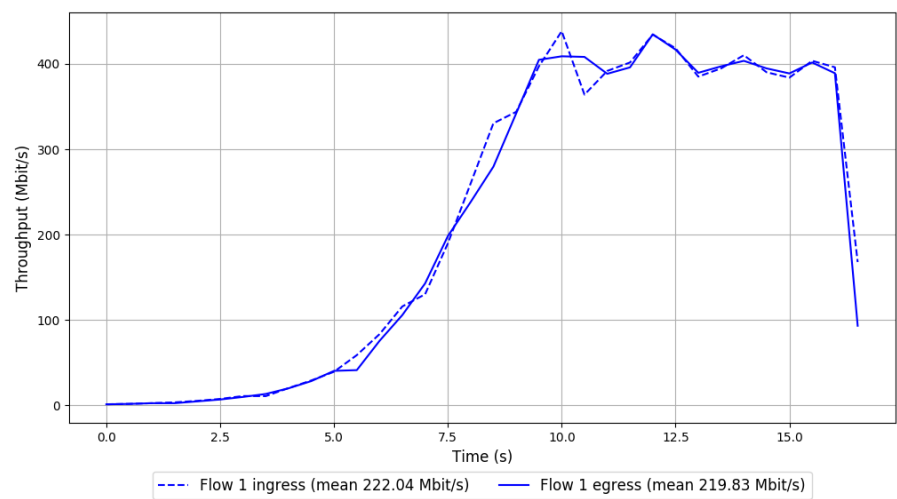


Run 3: Statistics of CalibratedKoho

Start at: 2017-08-16 18:52:57

End at: 2017-08-16 18:53:27

Run 3: Report of CalibratedKoho — Data Link



Run 4: Statistics of CalibratedKoho

Start at: 2017-08-16 19:04:01

End at: 2017-08-16 19:04:31

Below is generated by plot.py at 2017-08-16 22:57:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 275.20 Mbit/s

95th percentile per-packet one-way delay: 93.653 ms

Loss rate: 0.80%

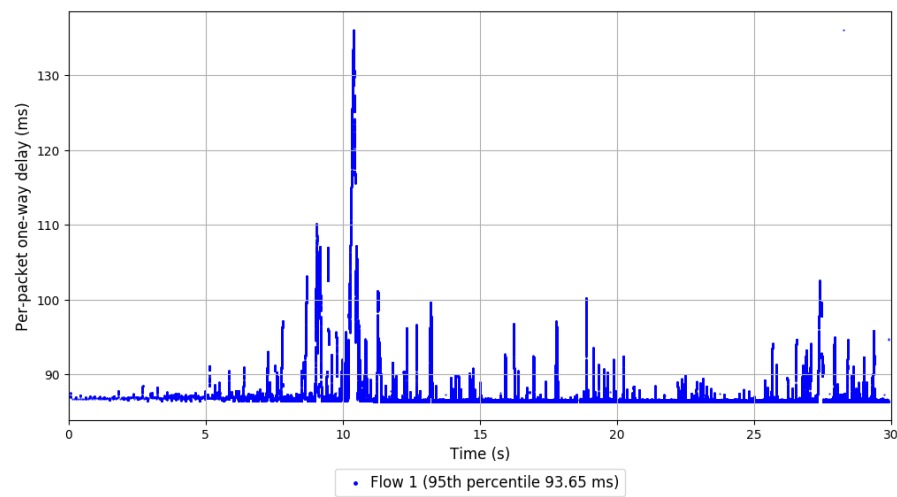
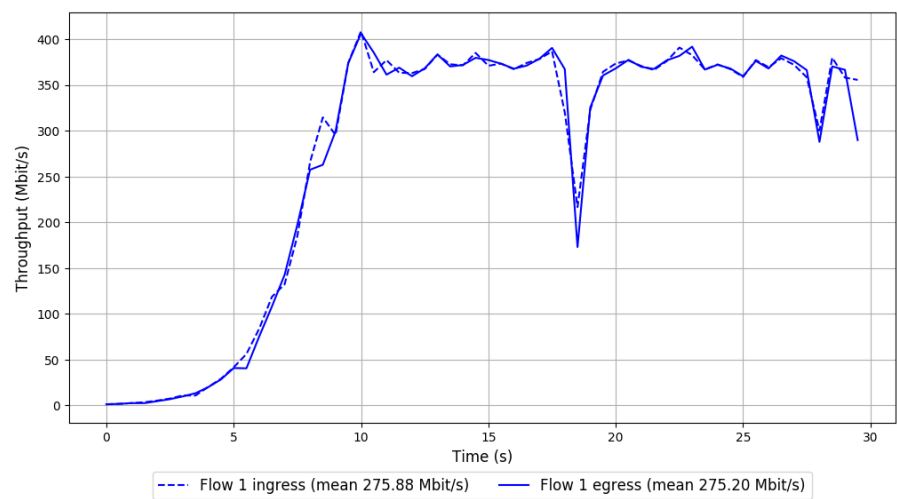
-- Flow 1:

Average throughput: 275.20 Mbit/s

95th percentile per-packet one-way delay: 93.653 ms

Loss rate: 0.80%

Run 4: Report of CalibratedKoho — Data Link



Run 5: Statistics of CalibratedKoho

Start at: 2017-08-16 19:15:19

End at: 2017-08-16 19:15:49

Below is generated by plot.py at 2017-08-16 22:57:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 258.44 Mbit/s

95th percentile per-packet one-way delay: 94.037 ms

Loss rate: 2.88%

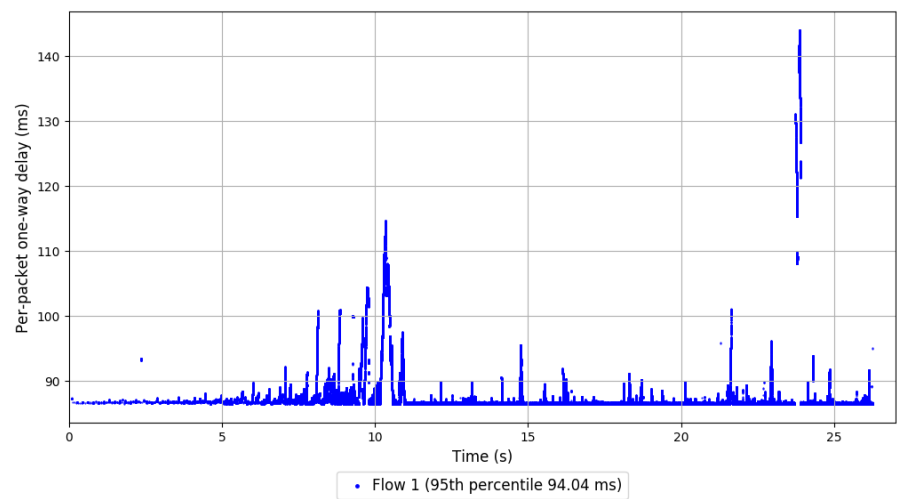
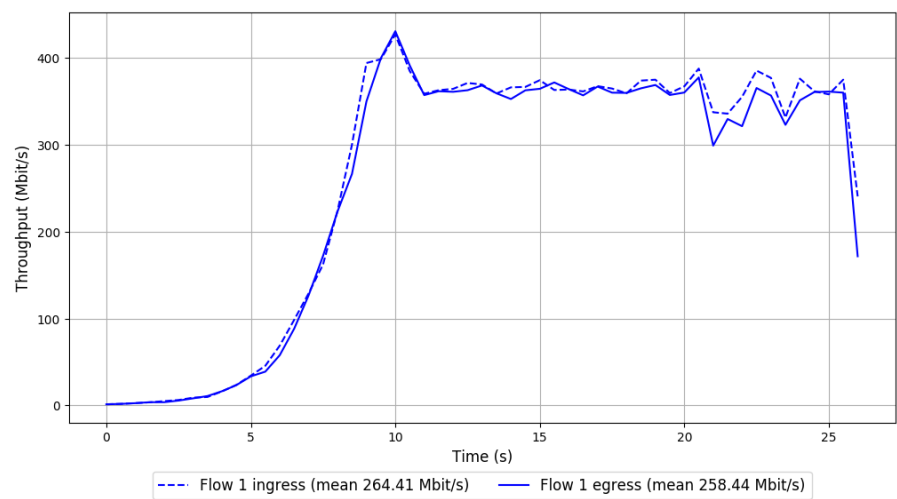
-- Flow 1:

Average throughput: 258.44 Mbit/s

95th percentile per-packet one-way delay: 94.037 ms

Loss rate: 2.88%

Run 5: Report of CalibratedKoho — Data Link



Run 6: Statistics of CalibratedKoho

Start at: 2017-08-16 19:26:20

End at: 2017-08-16 19:26:50

Below is generated by plot.py at 2017-08-16 22:57:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 269.48 Mbit/s

95th percentile per-packet one-way delay: 93.397 ms

Loss rate: 0.97%

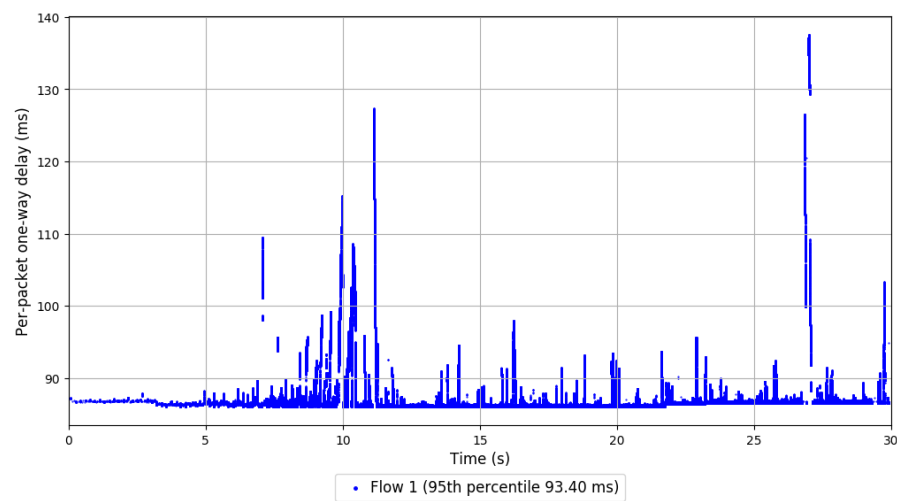
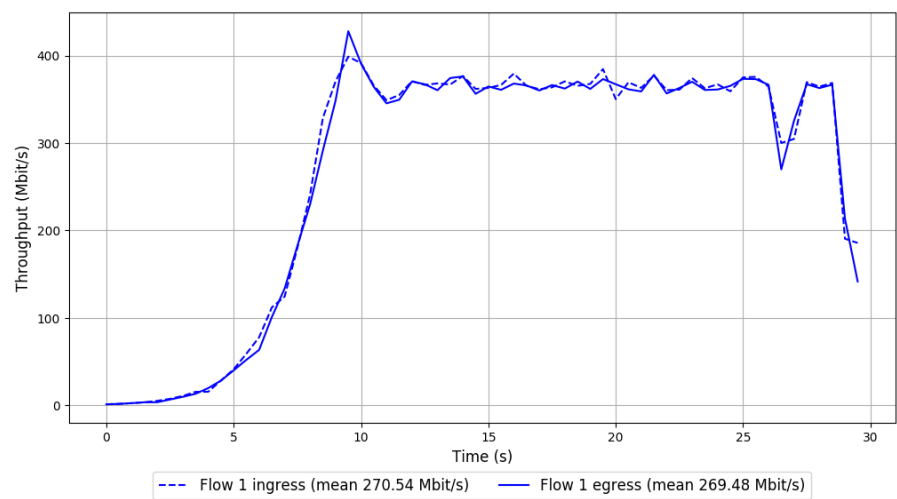
-- Flow 1:

Average throughput: 269.48 Mbit/s

95th percentile per-packet one-way delay: 93.397 ms

Loss rate: 0.97%

Run 6: Report of CalibratedKoho — Data Link

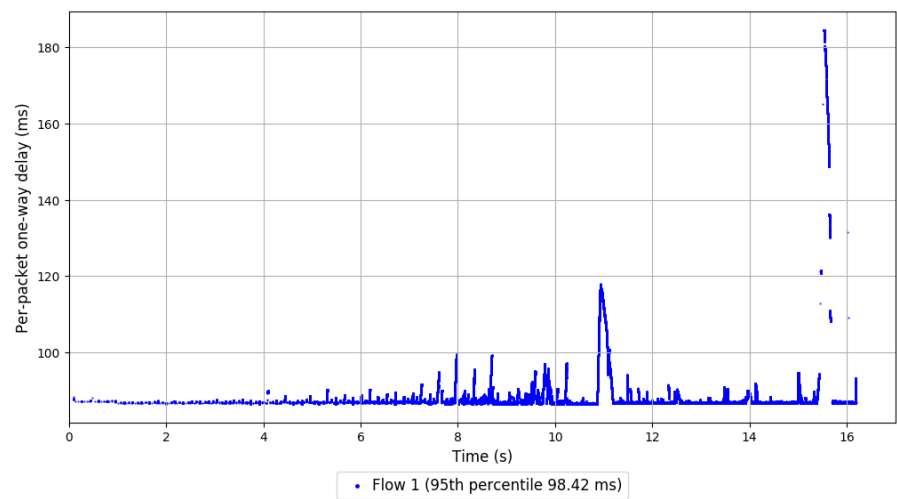
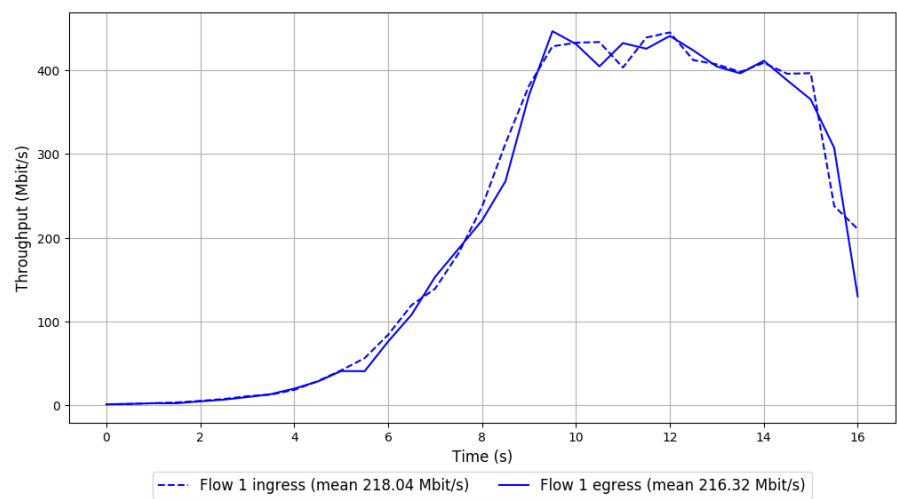


Run 7: Statistics of CalibratedKoho

Start at: 2017-08-16 19:37:29

End at: 2017-08-16 19:37:59

Run 7: Report of CalibratedKoho — Data Link

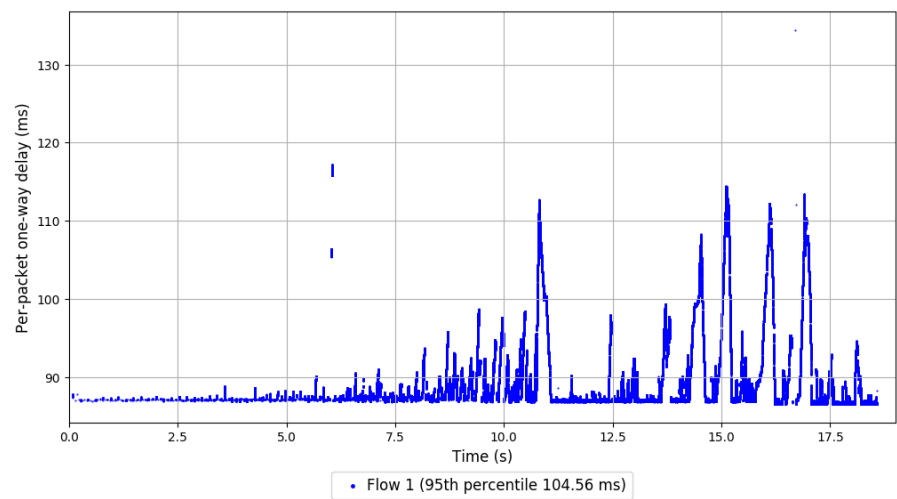
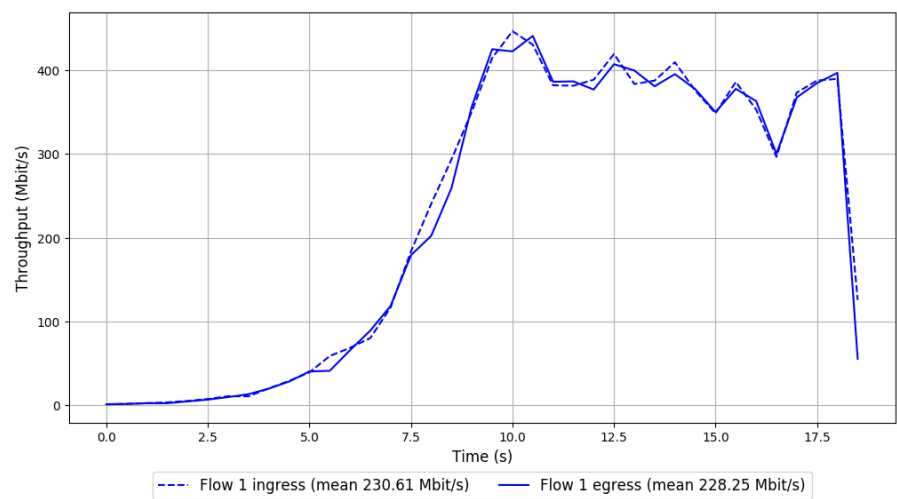


Run 8: Statistics of CalibratedKoho

Start at: 2017-08-16 19:48:16

End at: 2017-08-16 19:48:46

Run 8: Report of CalibratedKoho — Data Link



Run 9: Statistics of CalibratedKoho

Start at: 2017-08-16 19:58:58

End at: 2017-08-16 19:59:28

Below is generated by plot.py at 2017-08-16 22:58:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 296.83 Mbit/s

95th percentile per-packet one-way delay: 94.533 ms

Loss rate: 0.81%

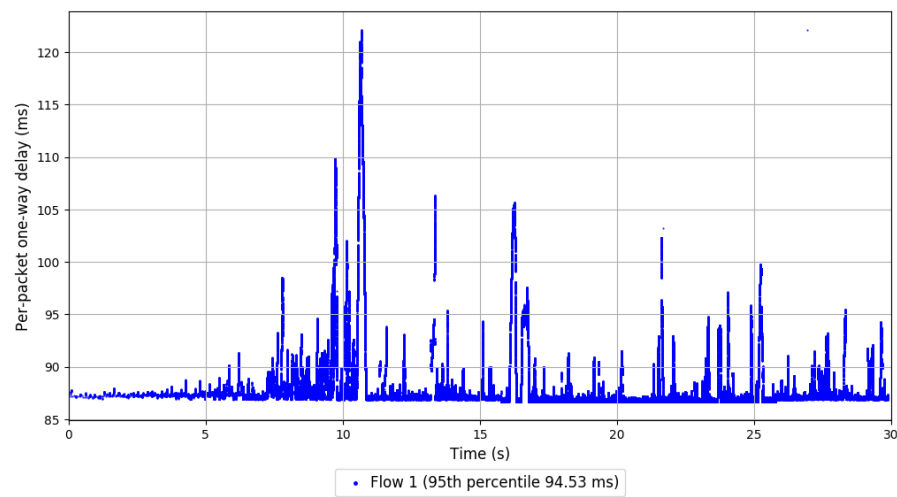
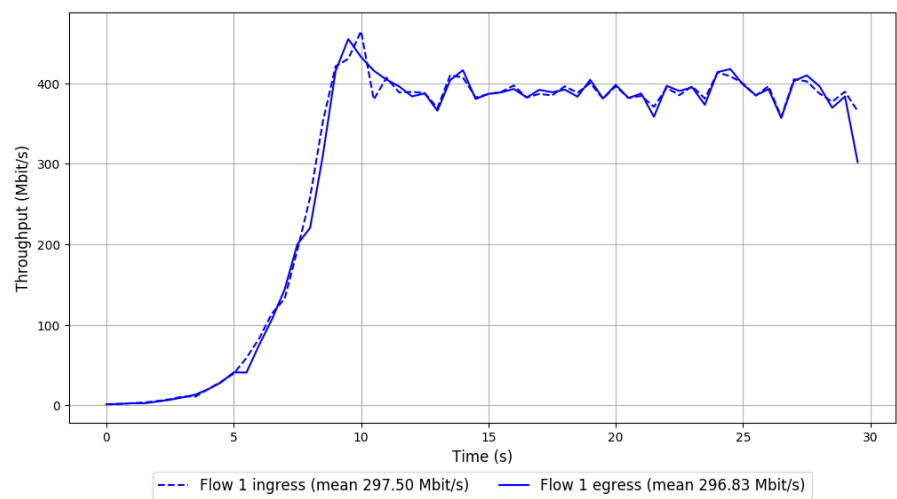
-- Flow 1:

Average throughput: 296.83 Mbit/s

95th percentile per-packet one-way delay: 94.533 ms

Loss rate: 0.81%

Run 9: Report of CalibratedKoho — Data Link

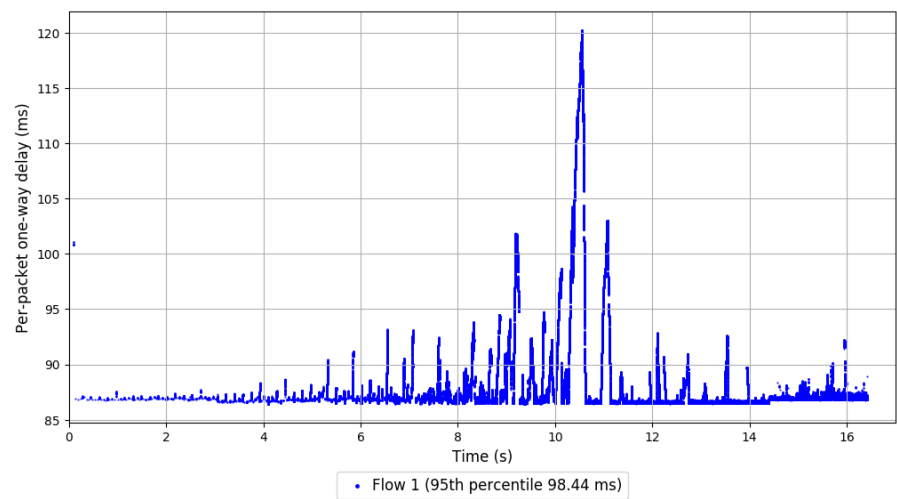
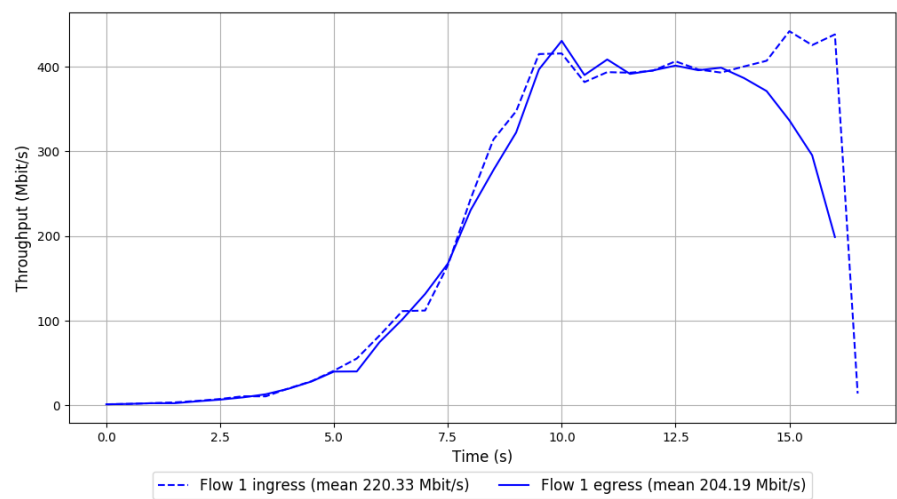


Run 10: Statistics of CalibratedKoho

Start at: 2017-08-16 20:10:46

End at: 2017-08-16 20:11:16

Run 10: Report of CalibratedKoho — Data Link



Run 1: Statistics of Copa

Start at: 2017-08-16 18:39:36

End at: 2017-08-16 18:40:06

Below is generated by plot.py at 2017-08-16 22:58:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.73 Mbit/s

95th percentile per-packet one-way delay: 86.941 ms

Loss rate: 0.20%

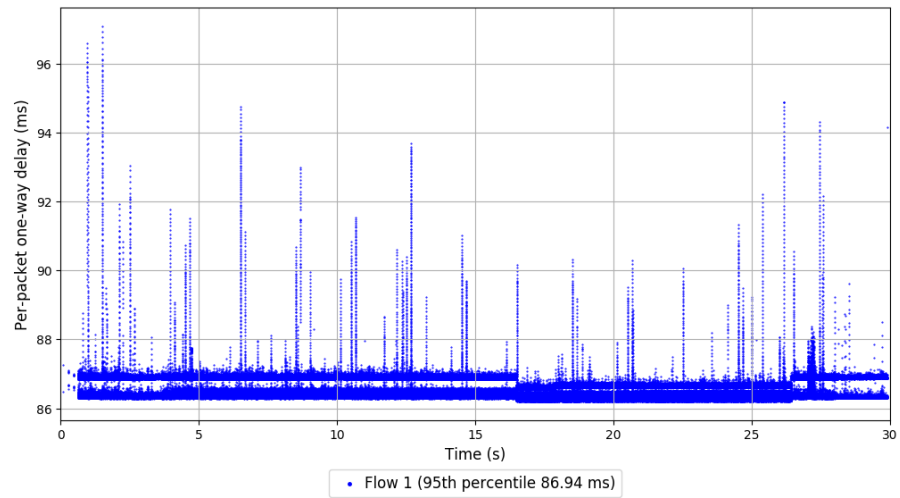
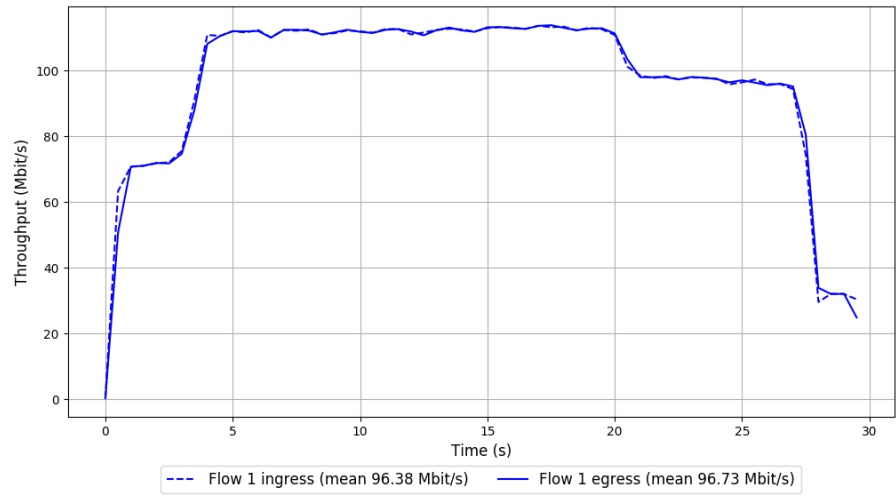
-- Flow 1:

Average throughput: 96.73 Mbit/s

95th percentile per-packet one-way delay: 86.941 ms

Loss rate: 0.20%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-08-16 18:50:22

End at: 2017-08-16 18:50:52

Below is generated by plot.py at 2017-08-16 22:59:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.75 Mbit/s

95th percentile per-packet one-way delay: 86.795 ms

Loss rate: 0.80%

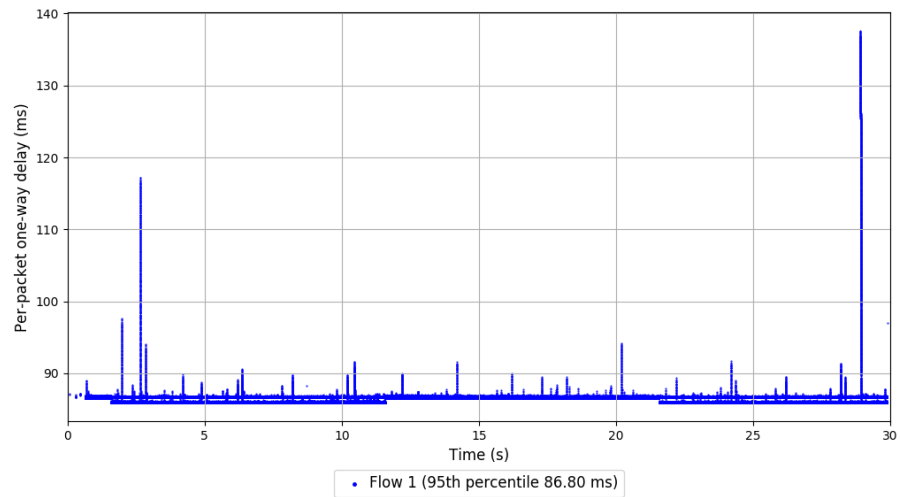
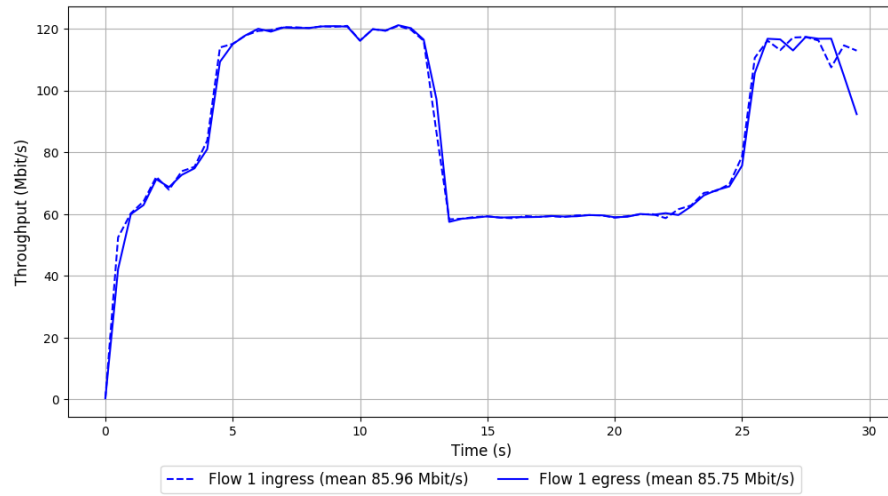
-- Flow 1:

Average throughput: 85.75 Mbit/s

95th percentile per-packet one-way delay: 86.795 ms

Loss rate: 0.80%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-08-16 19:01:16

End at: 2017-08-16 19:01:46

Below is generated by plot.py at 2017-08-16 22:59:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 136.16 Mbit/s

95th percentile per-packet one-way delay: 87.079 ms

Loss rate: 0.09%

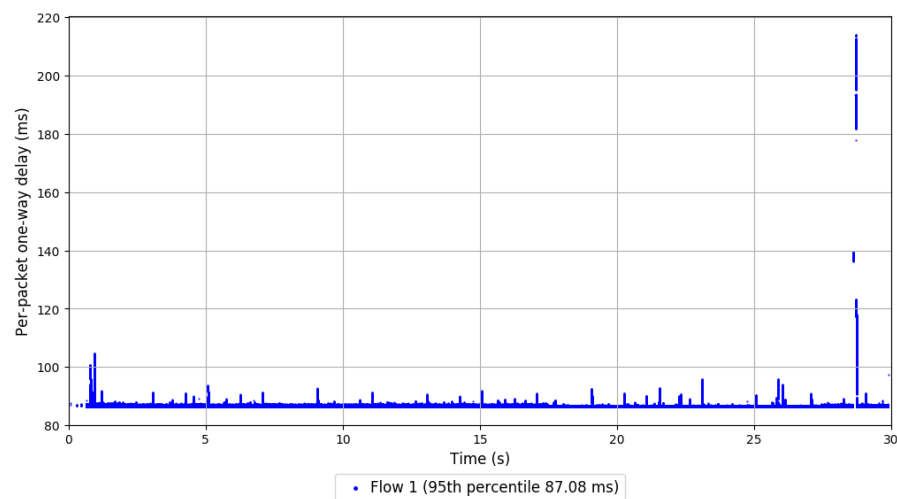
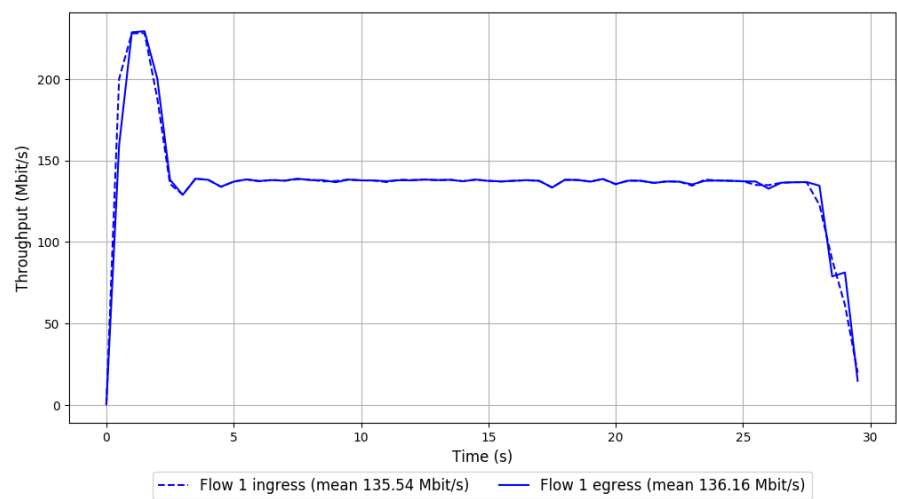
-- Flow 1:

Average throughput: 136.16 Mbit/s

95th percentile per-packet one-way delay: 87.079 ms

Loss rate: 0.09%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-08-16 19:12:35

End at: 2017-08-16 19:13:05

Below is generated by plot.py at 2017-08-16 22:59:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.20 Mbit/s

95th percentile per-packet one-way delay: 86.713 ms

Loss rate: 0.95%

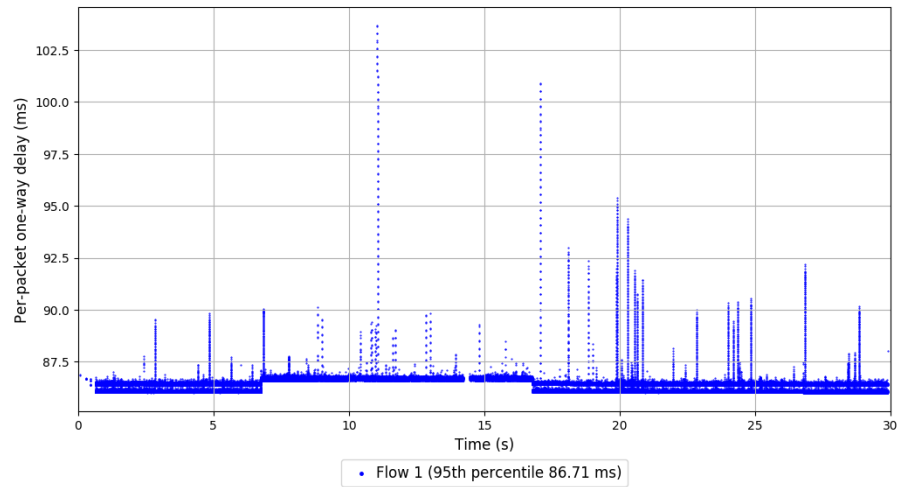
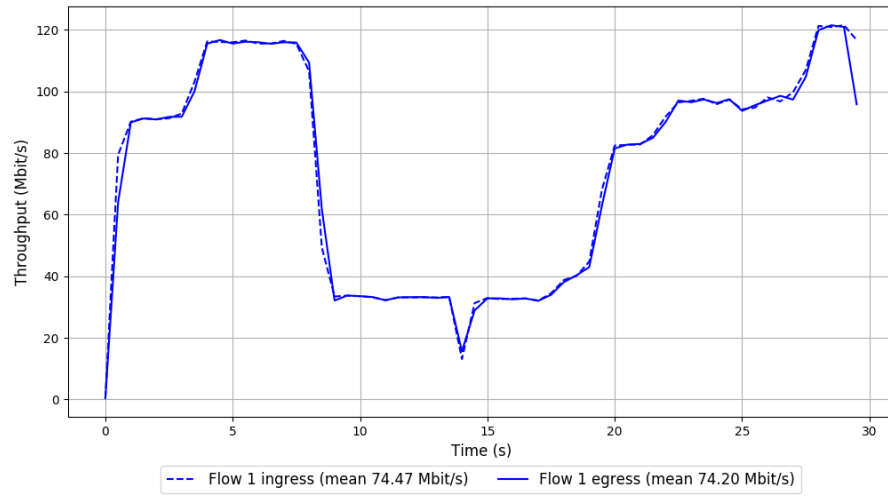
-- Flow 1:

Average throughput: 74.20 Mbit/s

95th percentile per-packet one-way delay: 86.713 ms

Loss rate: 0.95%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-08-16 19:23:46

End at: 2017-08-16 19:24:16

Below is generated by plot.py at 2017-08-16 23:00:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.97 Mbit/s

95th percentile per-packet one-way delay: 86.570 ms

Loss rate: 0.47%

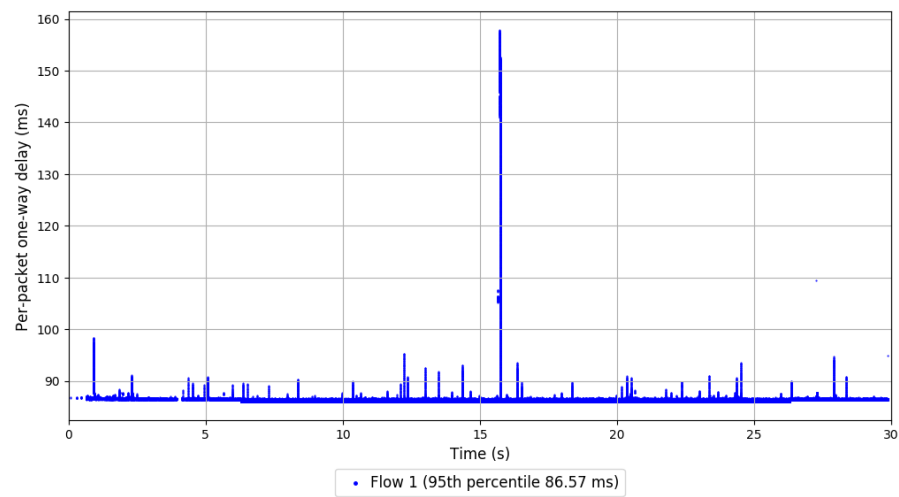
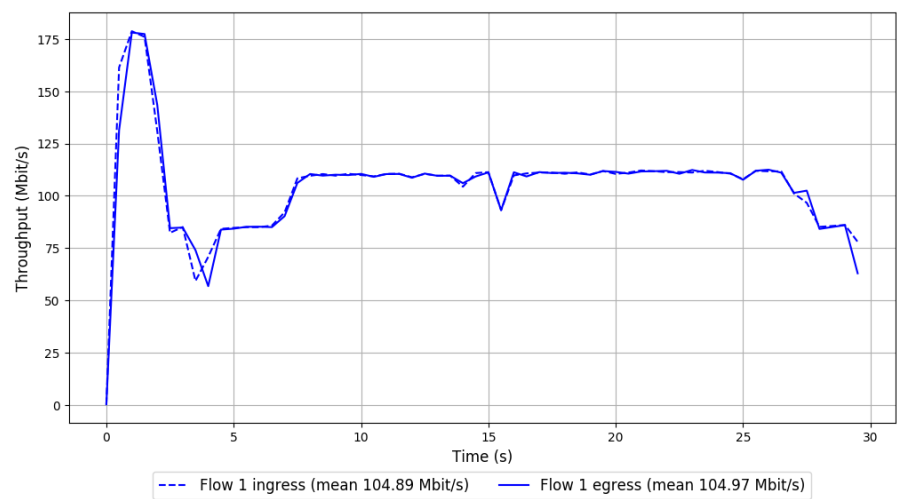
-- Flow 1:

Average throughput: 104.97 Mbit/s

95th percentile per-packet one-way delay: 86.570 ms

Loss rate: 0.47%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-08-16 19:34:51

End at: 2017-08-16 19:35:21

Below is generated by plot.py at 2017-08-16 23:00:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 119.90 Mbit/s

95th percentile per-packet one-way delay: 86.933 ms

Loss rate: 0.61%

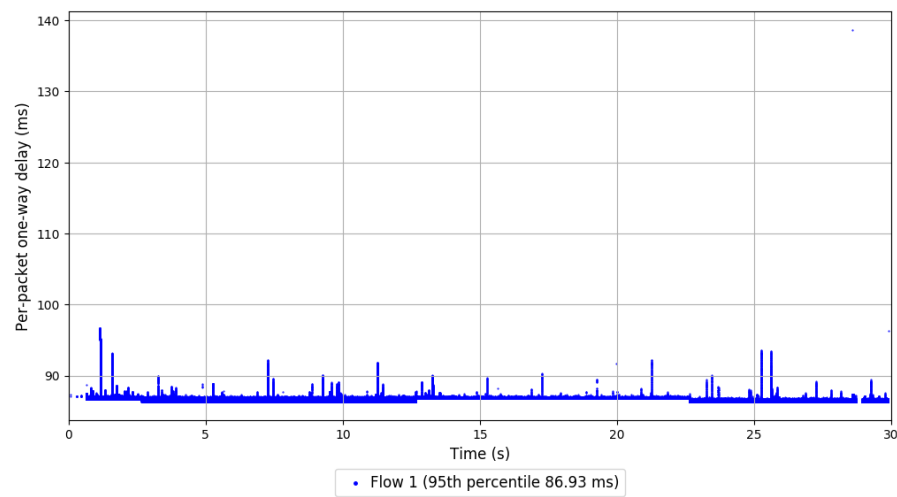
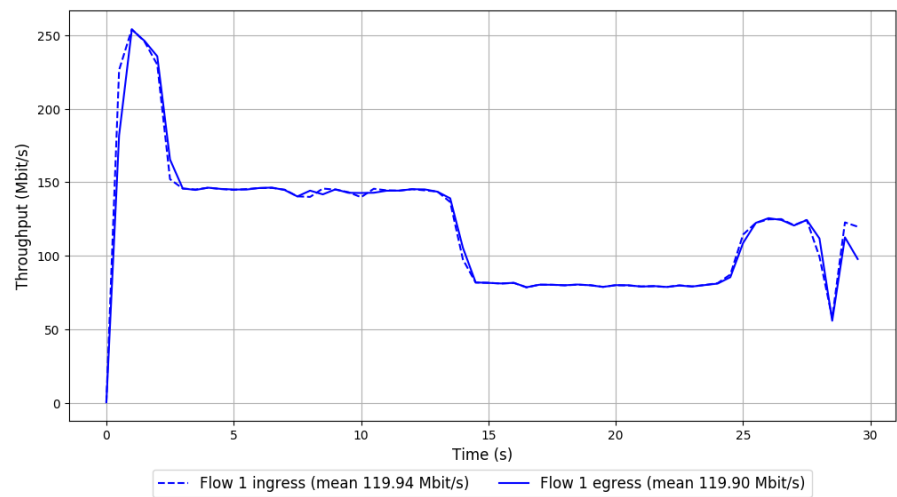
-- Flow 1:

Average throughput: 119.90 Mbit/s

95th percentile per-packet one-way delay: 86.933 ms

Loss rate: 0.61%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-08-16 19:45:44

End at: 2017-08-16 19:46:14

Below is generated by plot.py at 2017-08-16 23:00:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.58 Mbit/s

95th percentile per-packet one-way delay: 87.070 ms

Loss rate: 0.43%

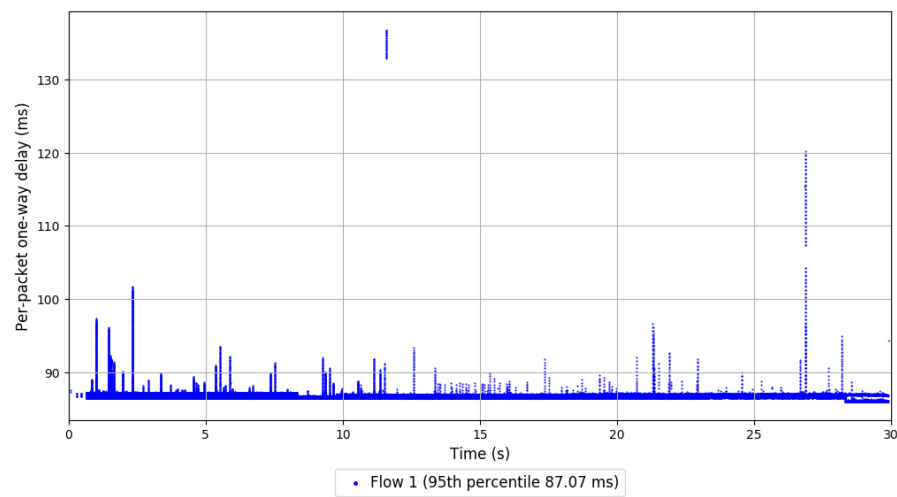
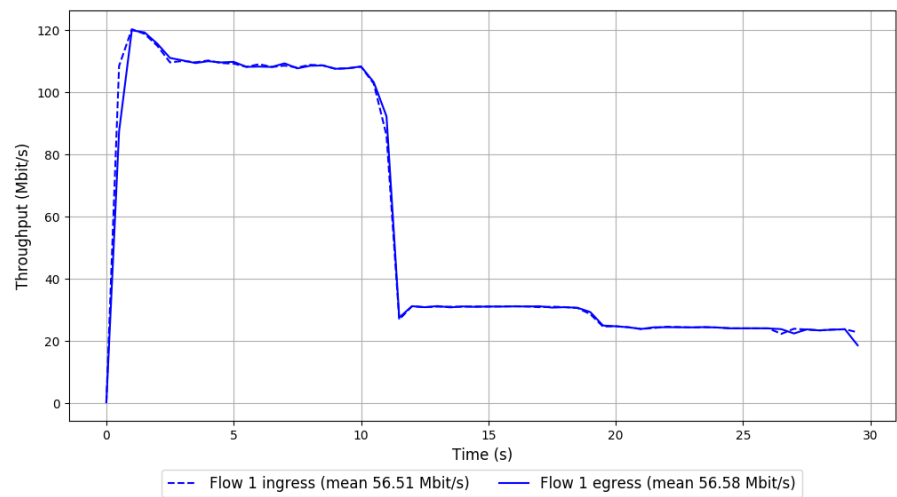
-- Flow 1:

Average throughput: 56.58 Mbit/s

95th percentile per-packet one-way delay: 87.070 ms

Loss rate: 0.43%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-08-16 19:56:46

End at: 2017-08-16 19:57:16

Below is generated by plot.py at 2017-08-16 23:00:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.50 Mbit/s

95th percentile per-packet one-way delay: 86.968 ms

Loss rate: 0.38%

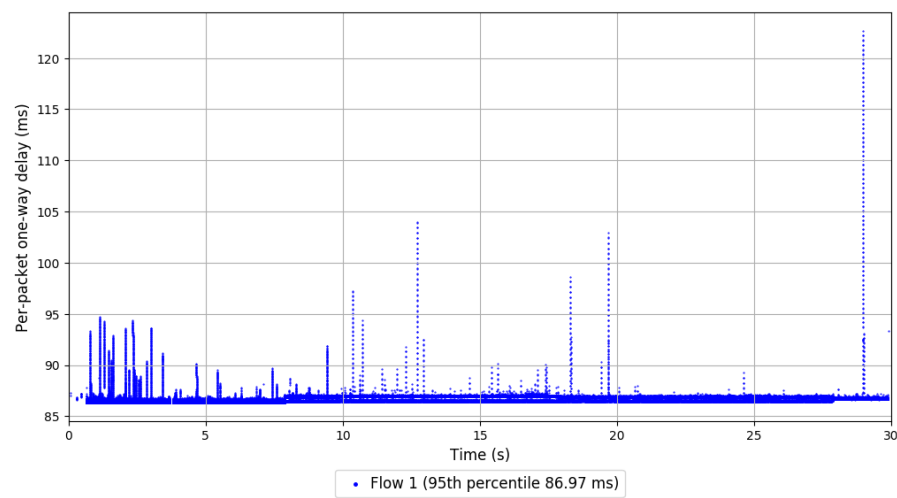
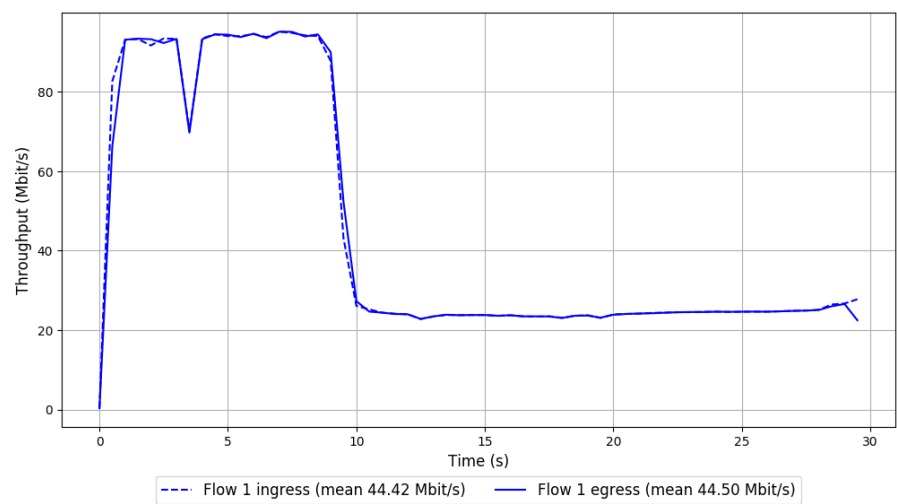
-- Flow 1:

Average throughput: 44.50 Mbit/s

95th percentile per-packet one-way delay: 86.968 ms

Loss rate: 0.38%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-08-16 20:08:13

End at: 2017-08-16 20:08:43

Below is generated by plot.py at 2017-08-16 23:00:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.87 Mbit/s

95th percentile per-packet one-way delay: 86.936 ms

Loss rate: 0.30%

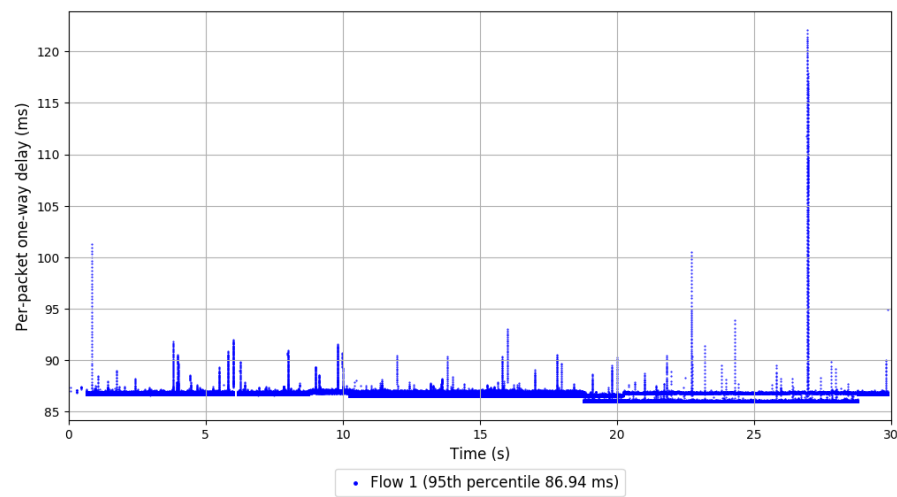
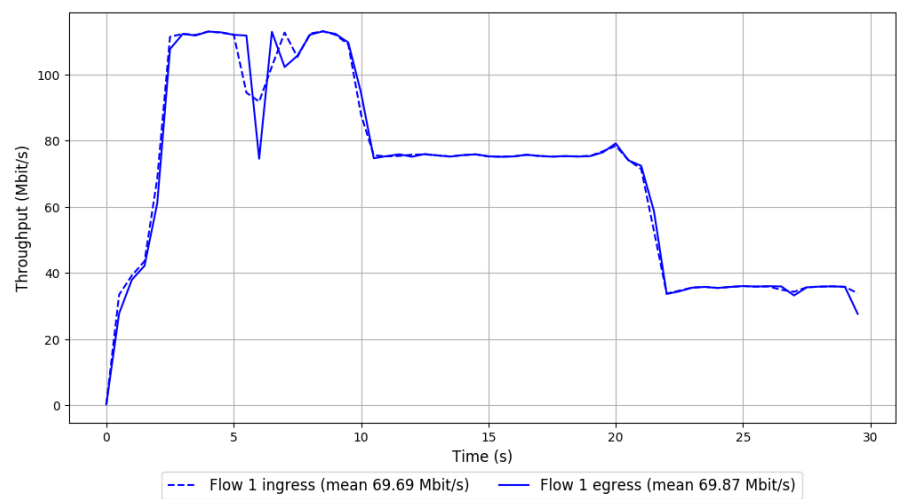
-- Flow 1:

Average throughput: 69.87 Mbit/s

95th percentile per-packet one-way delay: 86.936 ms

Loss rate: 0.30%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-08-16 20:19:10

End at: 2017-08-16 20:19:40

Below is generated by plot.py at 2017-08-16 23:01:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 124.63 Mbit/s

95th percentile per-packet one-way delay: 86.910 ms

Loss rate: 0.24%

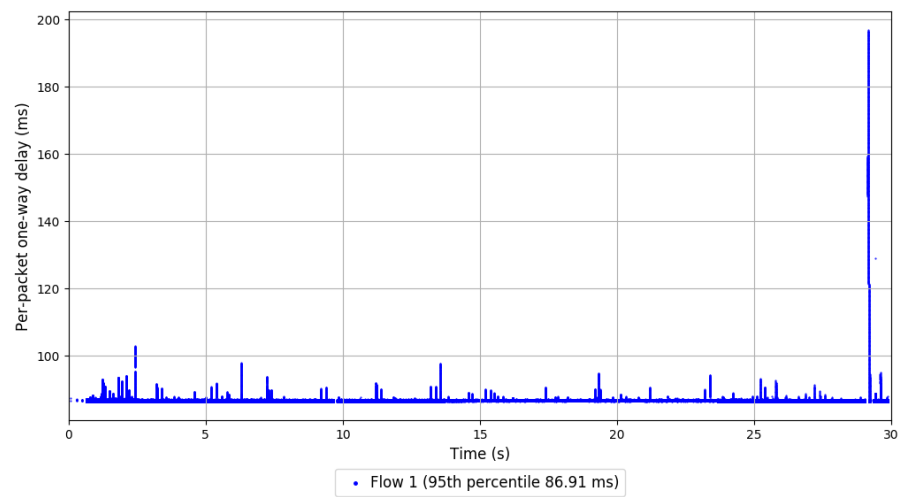
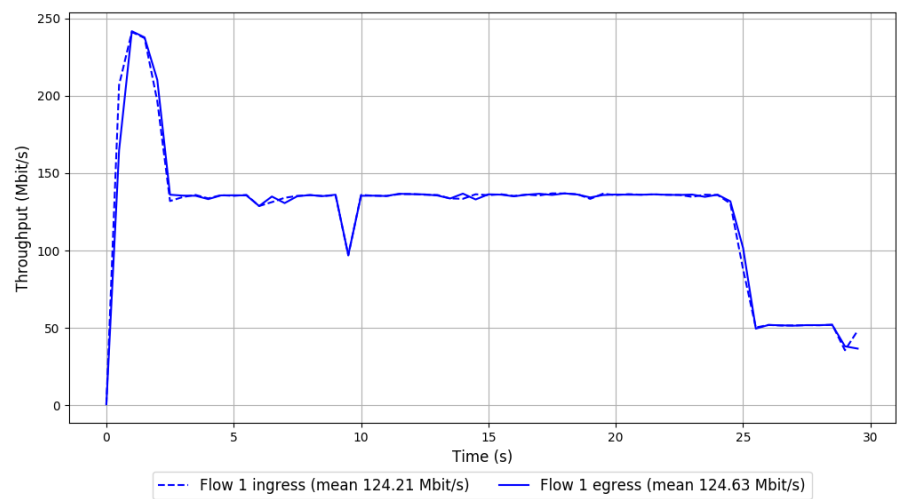
-- Flow 1:

Average throughput: 124.63 Mbit/s

95th percentile per-packet one-way delay: 86.910 ms

Loss rate: 0.24%

Run 10: Report of Copa — Data Link

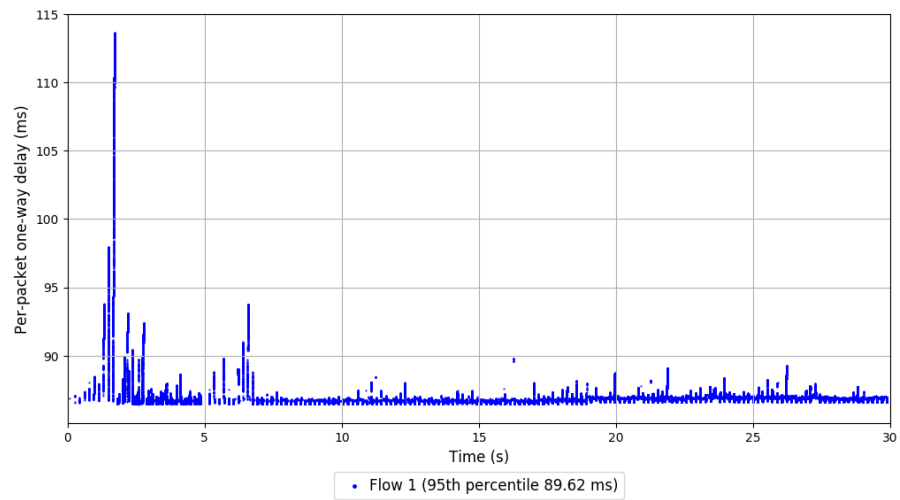
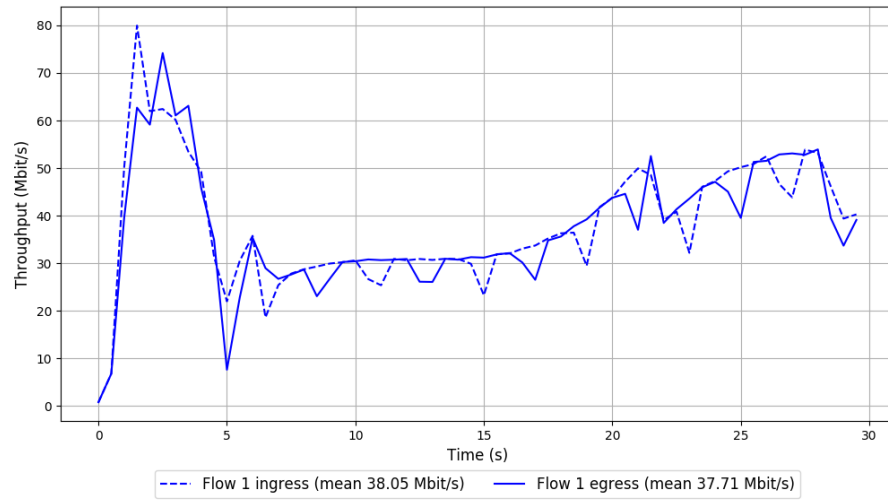


```
Run 1: Statistics of TCP Cubic

Start at: 2017-08-16 18:38:15
End at: 2017-08-16 18:38:45

# Below is generated by plot.py at 2017-08-16 23:01:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.71 Mbit/s
95th percentile per-packet one-way delay: 89.619 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 37.71 Mbit/s
95th percentile per-packet one-way delay: 89.619 ms
Loss rate: 1.50%
```

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-08-16 18:49:03

End at: 2017-08-16 18:49:33

Below is generated by plot.py at 2017-08-16 23:01:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.70 Mbit/s

95th percentile per-packet one-way delay: 87.273 ms

Loss rate: 2.81%

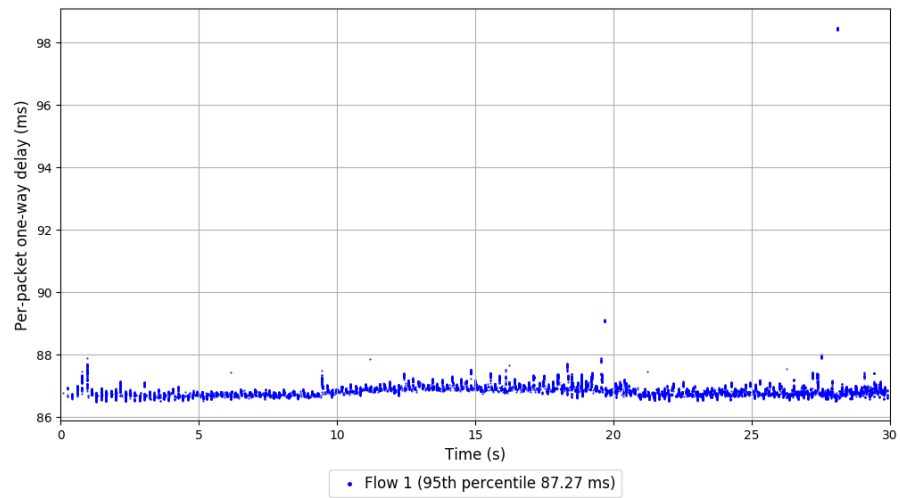
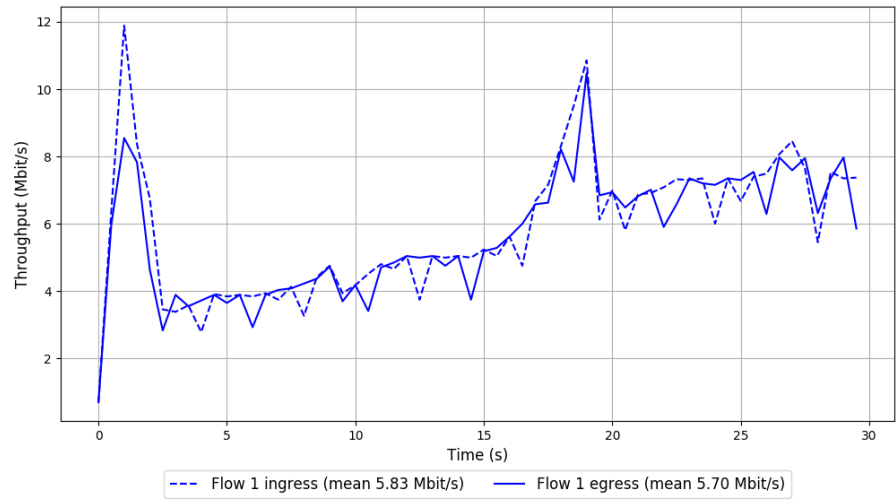
-- Flow 1:

Average throughput: 5.70 Mbit/s

95th percentile per-packet one-way delay: 87.273 ms

Loss rate: 2.81%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-08-16 18:59:56

End at: 2017-08-16 19:00:26

Below is generated by plot.py at 2017-08-16 23:01:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.26 Mbit/s

95th percentile per-packet one-way delay: 87.674 ms

Loss rate: 2.65%

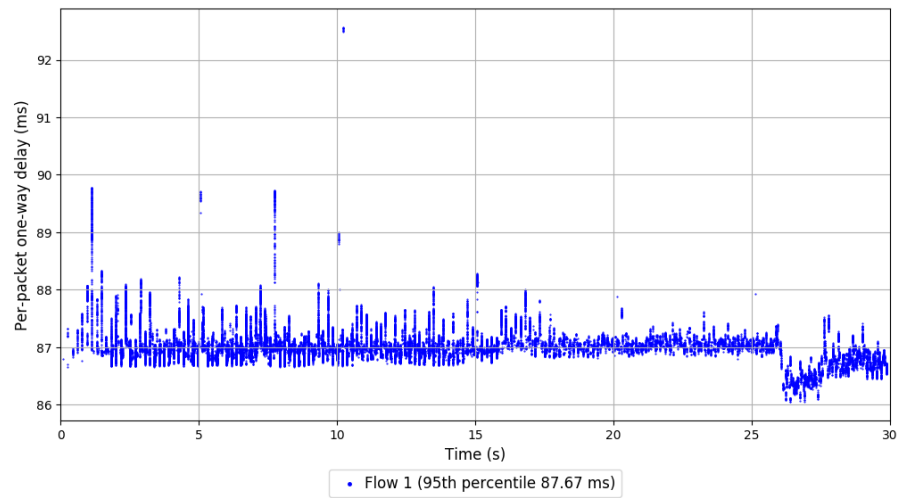
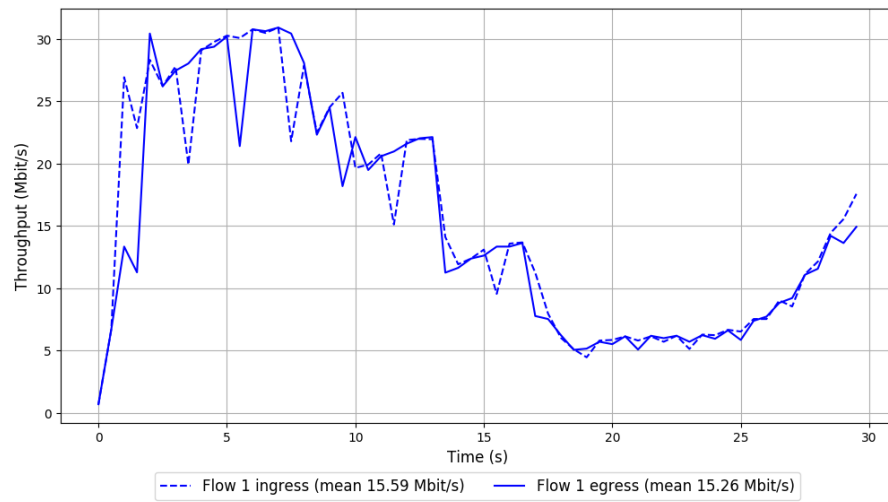
-- Flow 1:

Average throughput: 15.26 Mbit/s

95th percentile per-packet one-way delay: 87.674 ms

Loss rate: 2.65%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-08-16 19:11:16

End at: 2017-08-16 19:11:46

Below is generated by plot.py at 2017-08-16 23:01:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.25 Mbit/s

95th percentile per-packet one-way delay: 87.623 ms

Loss rate: 2.80%

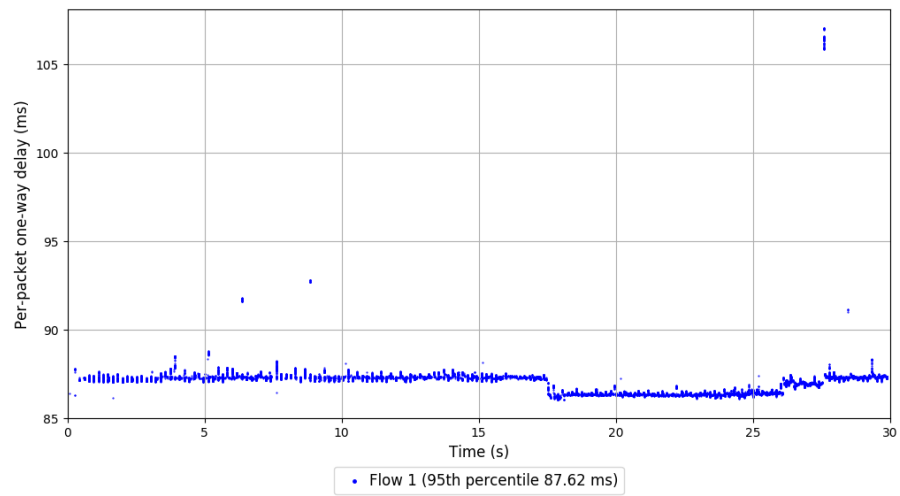
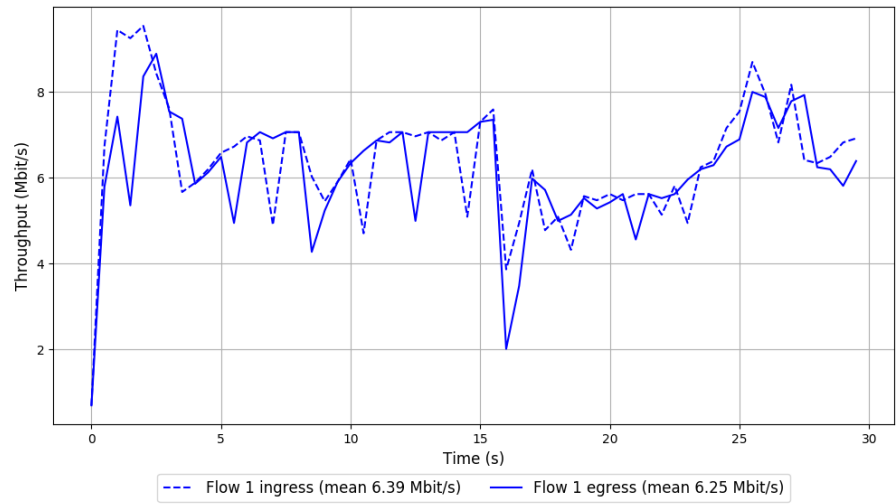
-- Flow 1:

Average throughput: 6.25 Mbit/s

95th percentile per-packet one-way delay: 87.623 ms

Loss rate: 2.80%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-08-16 19:22:25

End at: 2017-08-16 19:22:55

Below is generated by plot.py at 2017-08-16 23:01:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.58 Mbit/s

95th percentile per-packet one-way delay: 91.640 ms

Loss rate: 1.26%

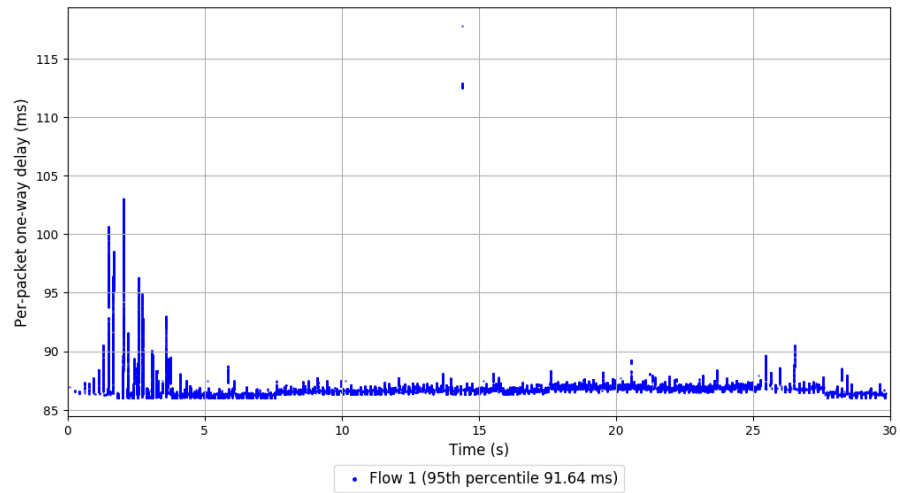
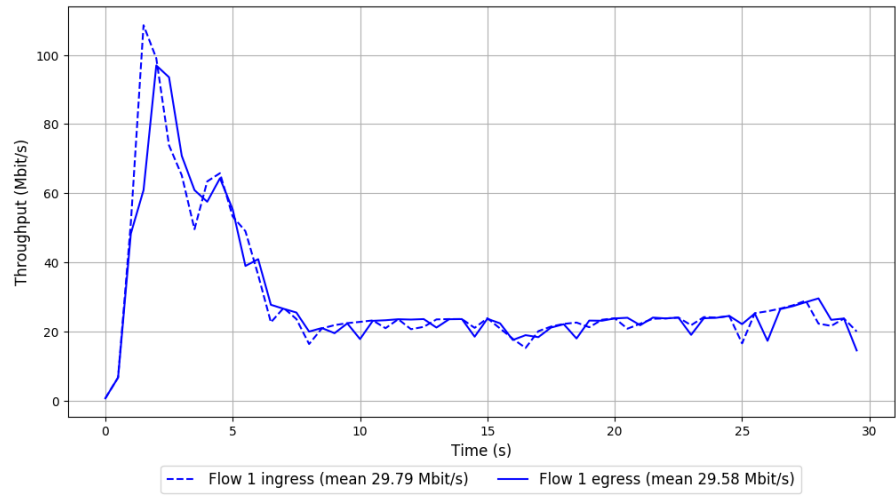
-- Flow 1:

Average throughput: 29.58 Mbit/s

95th percentile per-packet one-way delay: 91.640 ms

Loss rate: 1.26%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-08-16 19:33:31

End at: 2017-08-16 19:34:01

Below is generated by plot.py at 2017-08-16 23:01:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.25 Mbit/s

95th percentile per-packet one-way delay: 87.773 ms

Loss rate: 3.48%

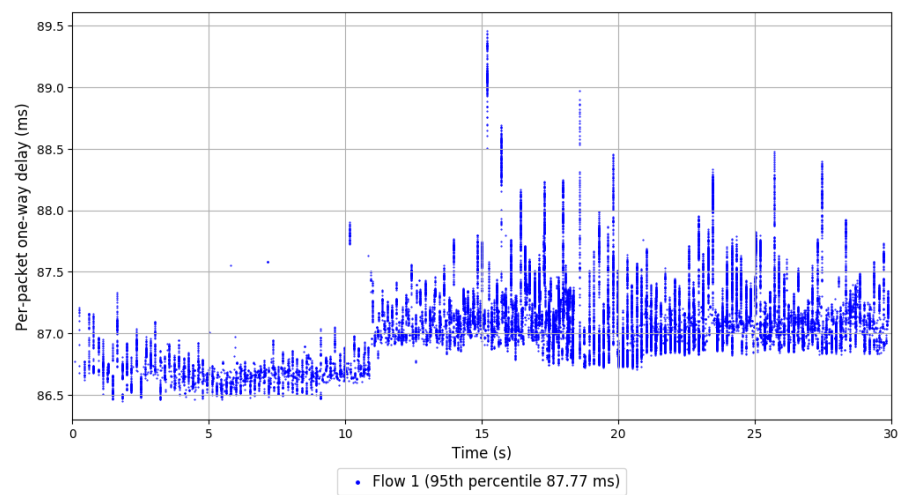
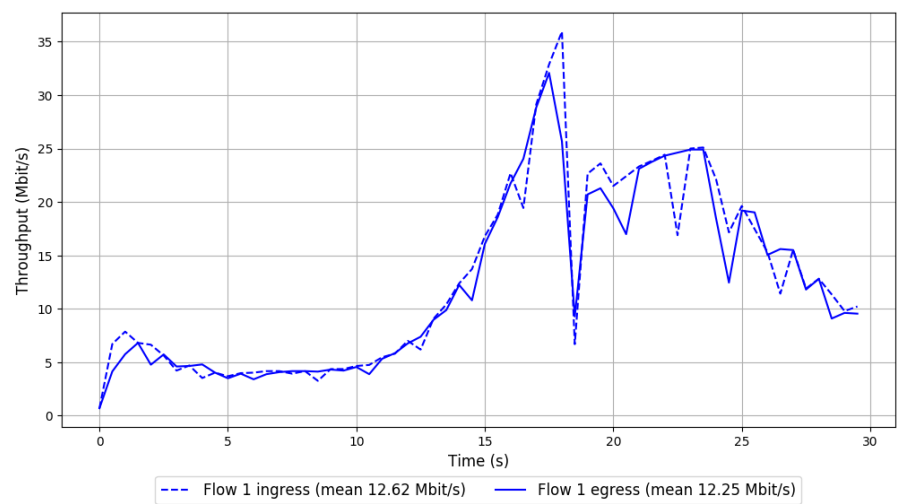
-- Flow 1:

Average throughput: 12.25 Mbit/s

95th percentile per-packet one-way delay: 87.773 ms

Loss rate: 3.48%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-08-16 19:44:23

End at: 2017-08-16 19:44:53

Below is generated by plot.py at 2017-08-16 23:01:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.34 Mbit/s

95th percentile per-packet one-way delay: 89.286 ms

Loss rate: 1.11%

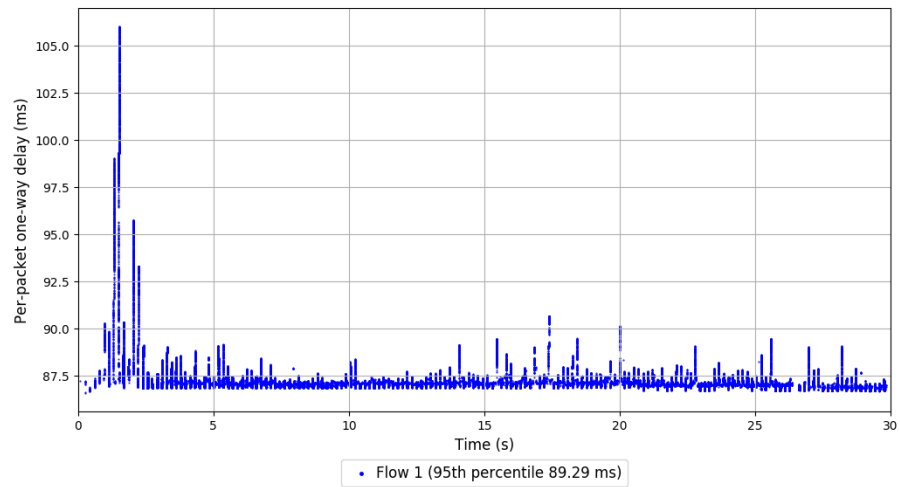
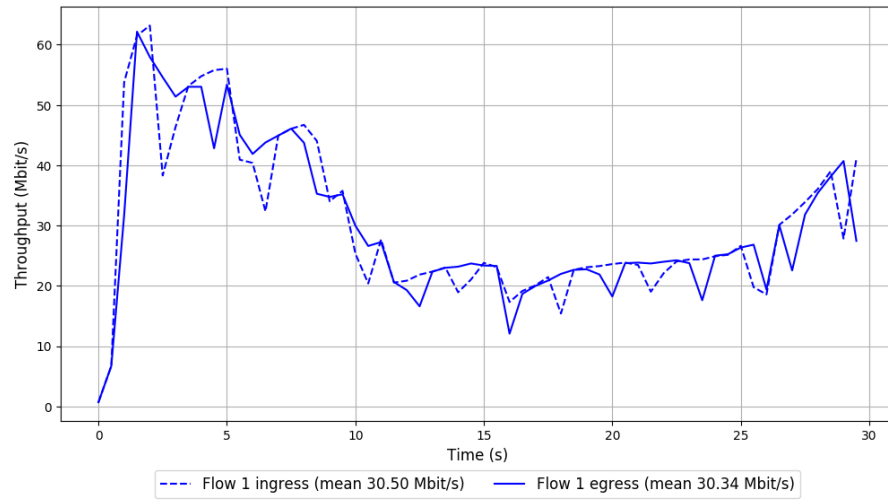
-- Flow 1:

Average throughput: 30.34 Mbit/s

95th percentile per-packet one-way delay: 89.286 ms

Loss rate: 1.11%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-08-16 19:55:27

End at: 2017-08-16 19:55:57

Below is generated by plot.py at 2017-08-16 23:01:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.56 Mbit/s

95th percentile per-packet one-way delay: 87.437 ms

Loss rate: 1.45%

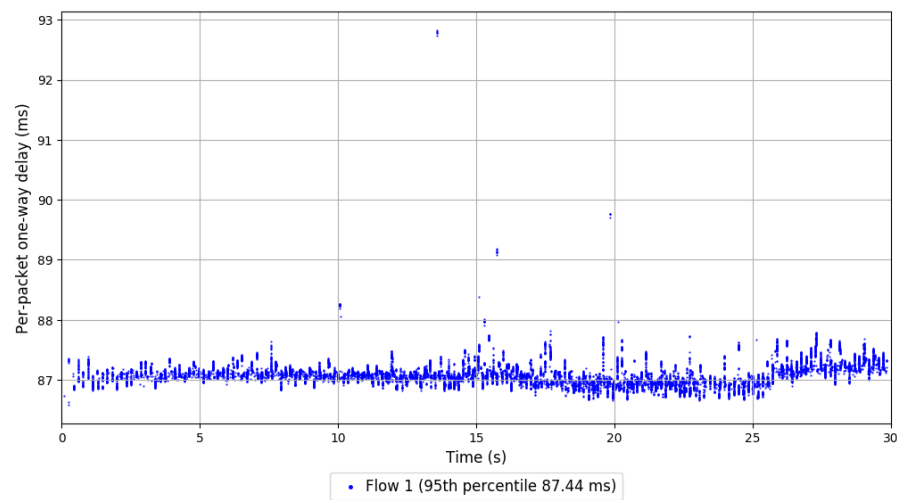
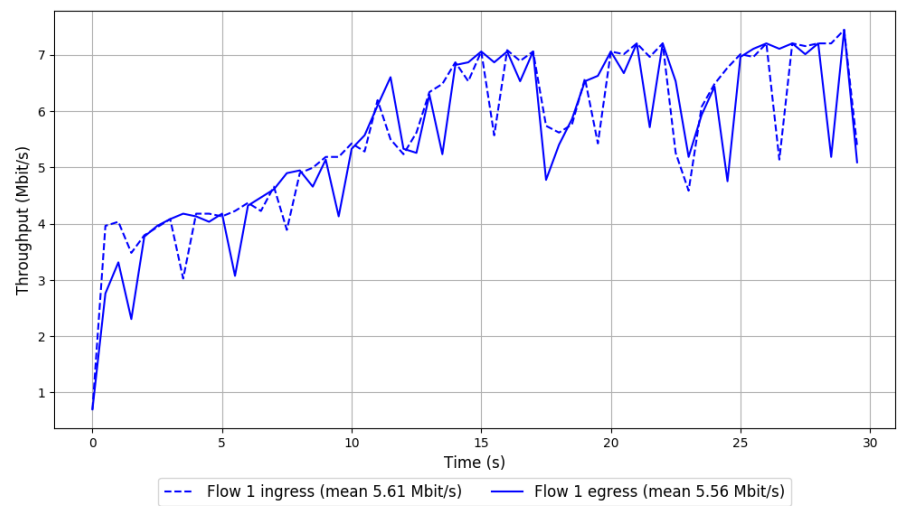
-- Flow 1:

Average throughput: 5.56 Mbit/s

95th percentile per-packet one-way delay: 87.437 ms

Loss rate: 1.45%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-08-16 20:06:51

End at: 2017-08-16 20:07:21

Below is generated by plot.py at 2017-08-16 23:01:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.40 Mbit/s

95th percentile per-packet one-way delay: 88.590 ms

Loss rate: 0.85%

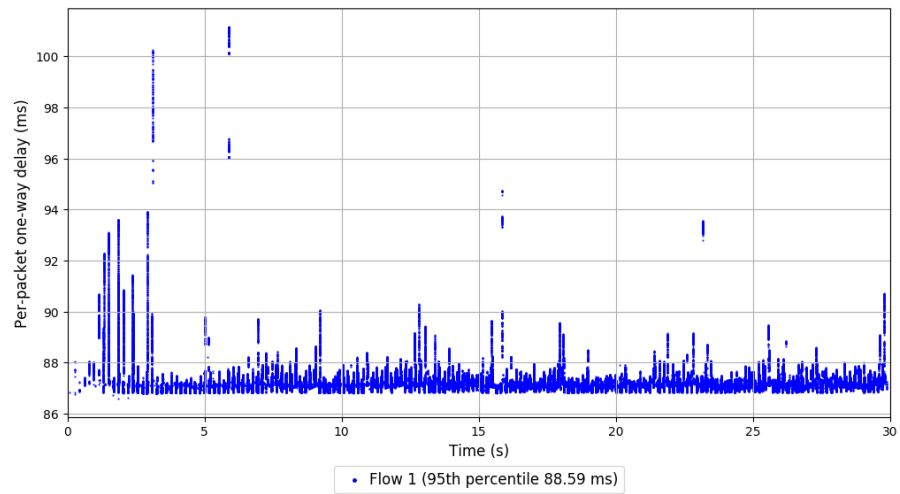
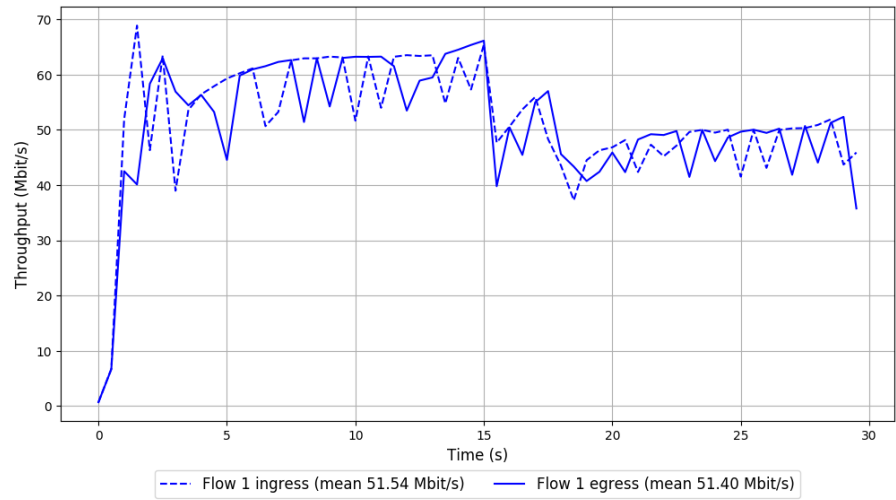
-- Flow 1:

Average throughput: 51.40 Mbit/s

95th percentile per-packet one-way delay: 88.590 ms

Loss rate: 0.85%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-08-16 20:17:50

End at: 2017-08-16 20:18:20

Below is generated by plot.py at 2017-08-16 23:01:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.89 Mbit/s

95th percentile per-packet one-way delay: 87.293 ms

Loss rate: 1.97%

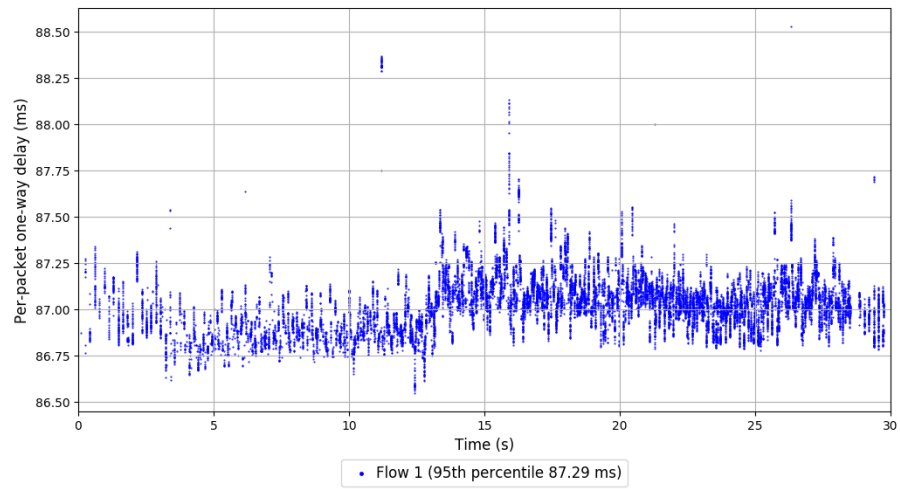
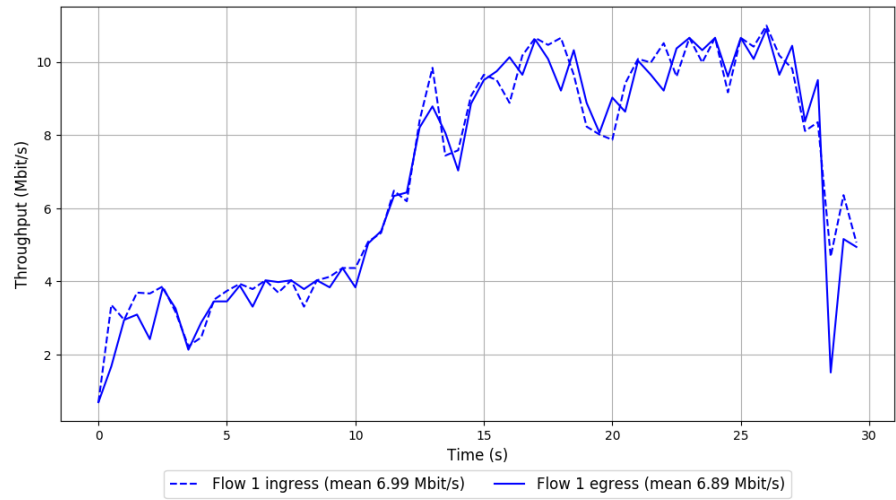
-- Flow 1:

Average throughput: 6.89 Mbit/s

95th percentile per-packet one-way delay: 87.293 ms

Loss rate: 1.97%

Run 10: Report of TCP Cubic — Data Link

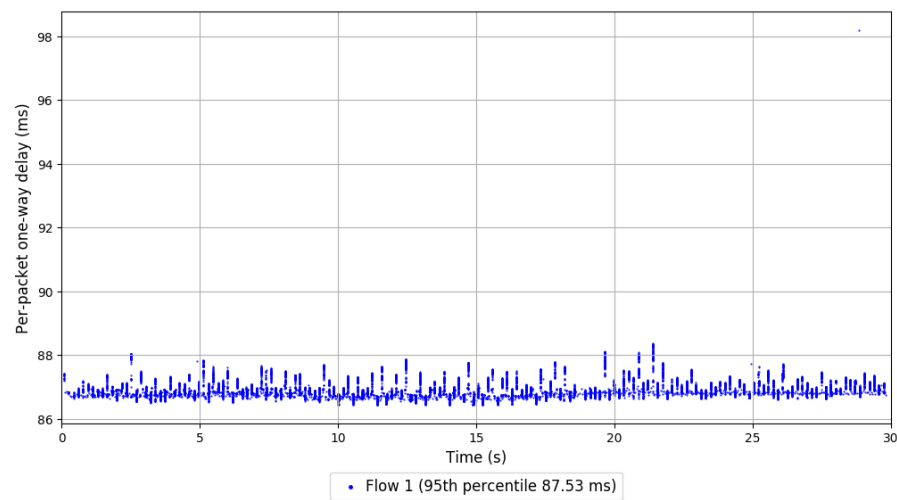
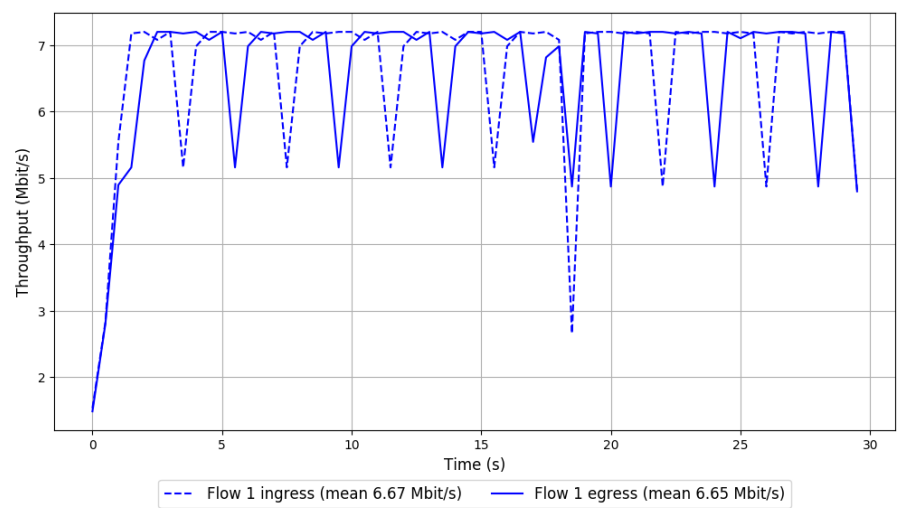


```
Run 1: Statistics of KohoCC

Start at: 2017-08-16 18:37:35
End at: 2017-08-16 18:38:05

# Below is generated by plot.py at 2017-08-16 23:01:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.65 Mbit/s
95th percentile per-packet one-way delay: 87.528 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 6.65 Mbit/s
95th percentile per-packet one-way delay: 87.528 ms
Loss rate: 0.82%
```


Run 1: Report of KohoCC — Data Link

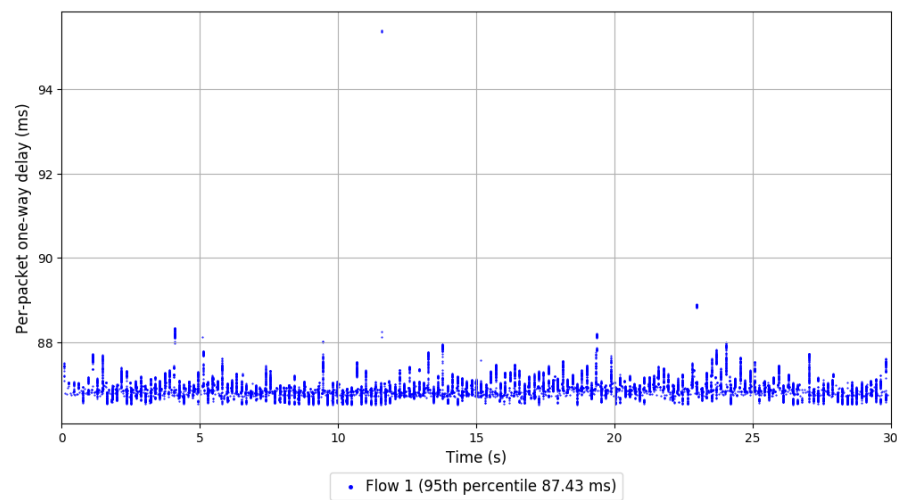
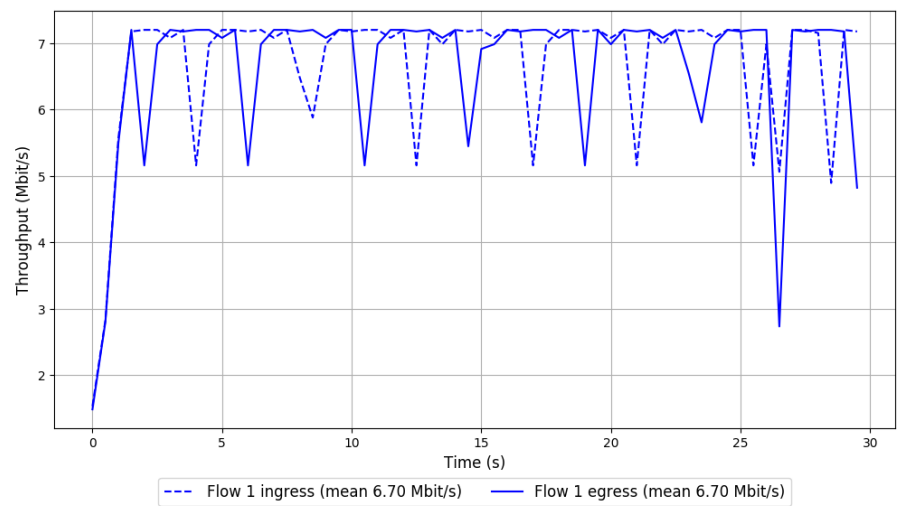


```
Run 2: Statistics of KohoCC

Start at: 2017-08-16 18:48:23
End at: 2017-08-16 18:48:53

# Below is generated by plot.py at 2017-08-16 23:01:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.70 Mbit/s
95th percentile per-packet one-way delay: 87.431 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 6.70 Mbit/s
95th percentile per-packet one-way delay: 87.431 ms
Loss rate: 0.60%
```

Run 2: Report of KohoCC — Data Link



Run 3: Statistics of KohoCC

Start at: 2017-08-16 18:59:16

End at: 2017-08-16 18:59:46

Below is generated by plot.py at 2017-08-16 23:01:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.51 Mbit/s

95th percentile per-packet one-way delay: 87.073 ms

Loss rate: 3.38%

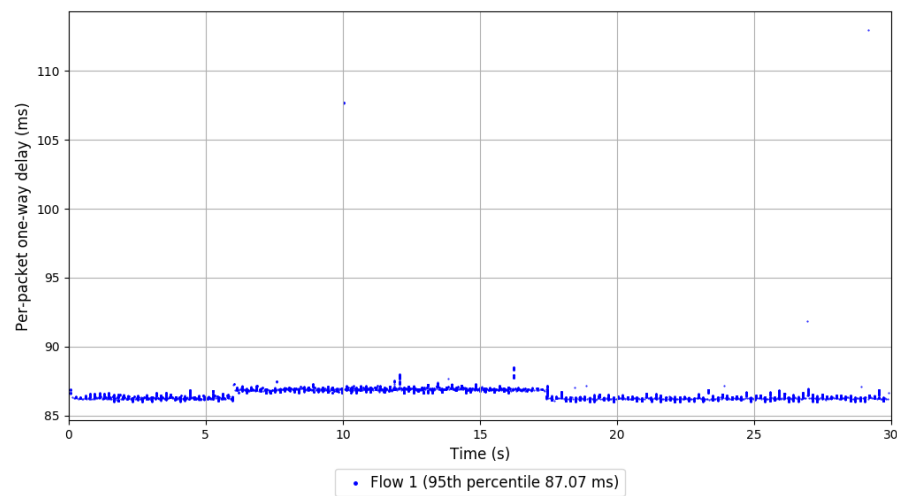
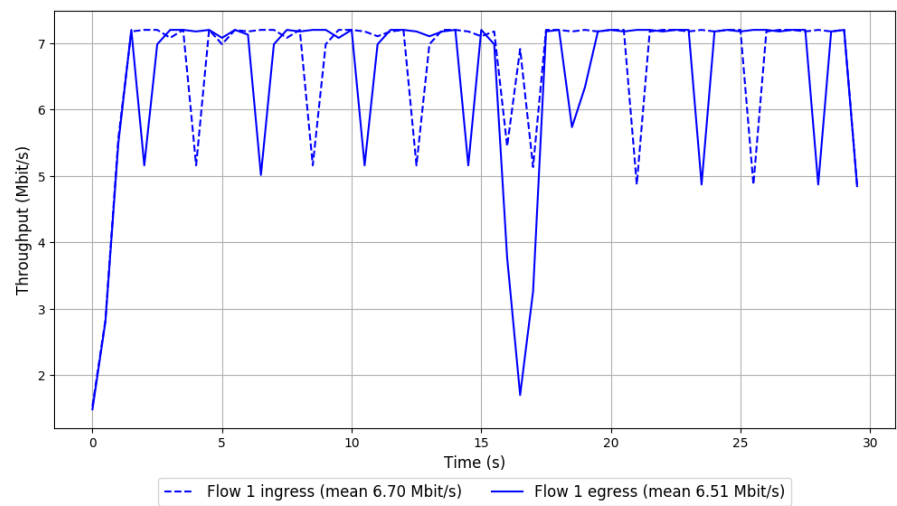
-- Flow 1:

Average throughput: 6.51 Mbit/s

95th percentile per-packet one-way delay: 87.073 ms

Loss rate: 3.38%

Run 3: Report of KohoCC — Data Link



Run 4: Statistics of KohoCC

Start at: 2017-08-16 19:10:36

End at: 2017-08-16 19:11:06

Below is generated by plot.py at 2017-08-16 23:01:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.40 Mbit/s

95th percentile per-packet one-way delay: 87.847 ms

Loss rate: 5.02%

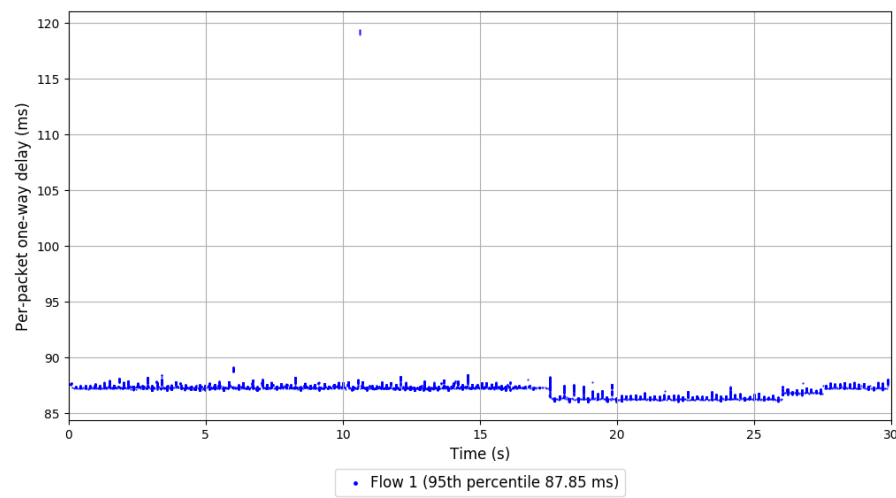
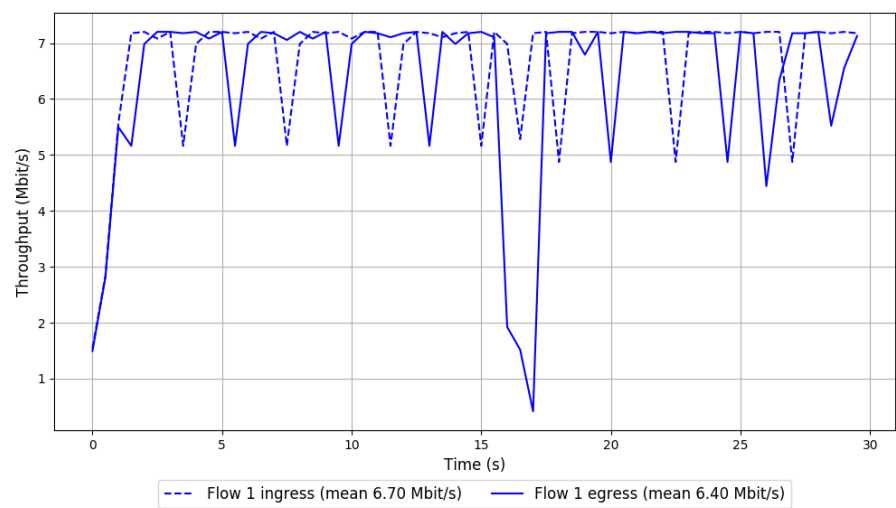
-- Flow 1:

Average throughput: 6.40 Mbit/s

95th percentile per-packet one-way delay: 87.847 ms

Loss rate: 5.02%

Run 4: Report of KohoCC — Data Link



Run 5: Statistics of KohoCC

Start at: 2017-08-16 19:21:45

End at: 2017-08-16 19:22:15

Below is generated by plot.py at 2017-08-16 23:01:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.65 Mbit/s

95th percentile per-packet one-way delay: 87.216 ms

Loss rate: 1.18%

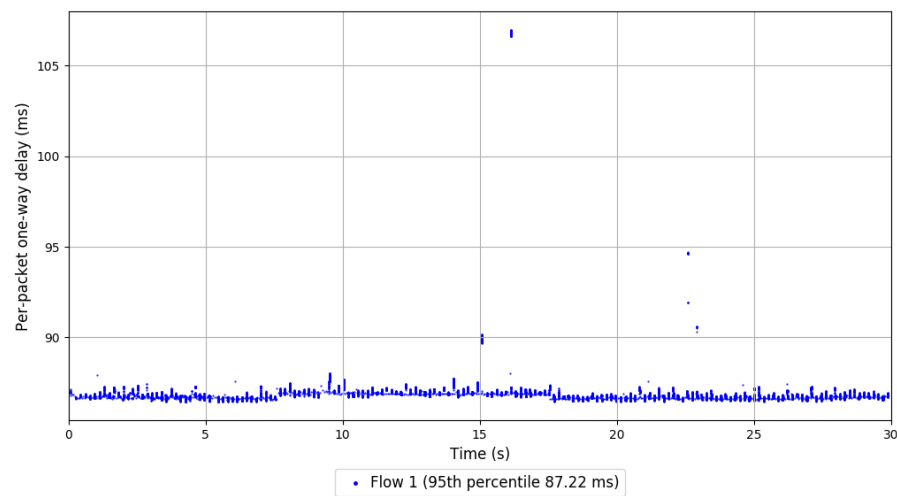
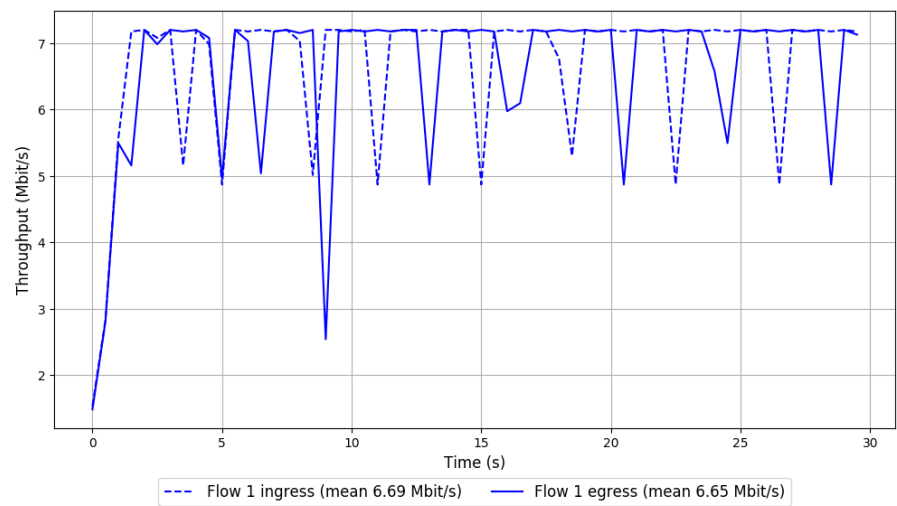
-- Flow 1:

Average throughput: 6.65 Mbit/s

95th percentile per-packet one-way delay: 87.216 ms

Loss rate: 1.18%

Run 5: Report of KohoCC — Data Link



Run 6: Statistics of KohoCC

Start at: 2017-08-16 19:32:51

End at: 2017-08-16 19:33:21

Below is generated by plot.py at 2017-08-16 23:01:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.70 Mbit/s

95th percentile per-packet one-way delay: 87.309 ms

Loss rate: 0.69%

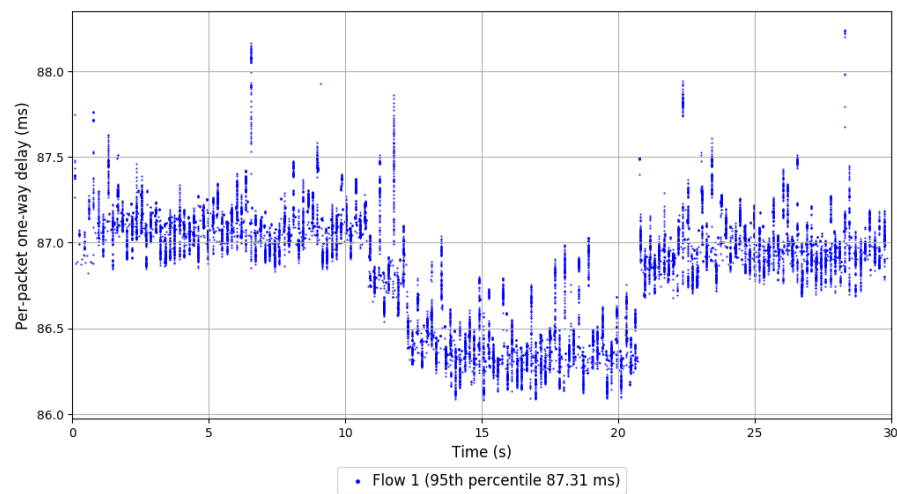
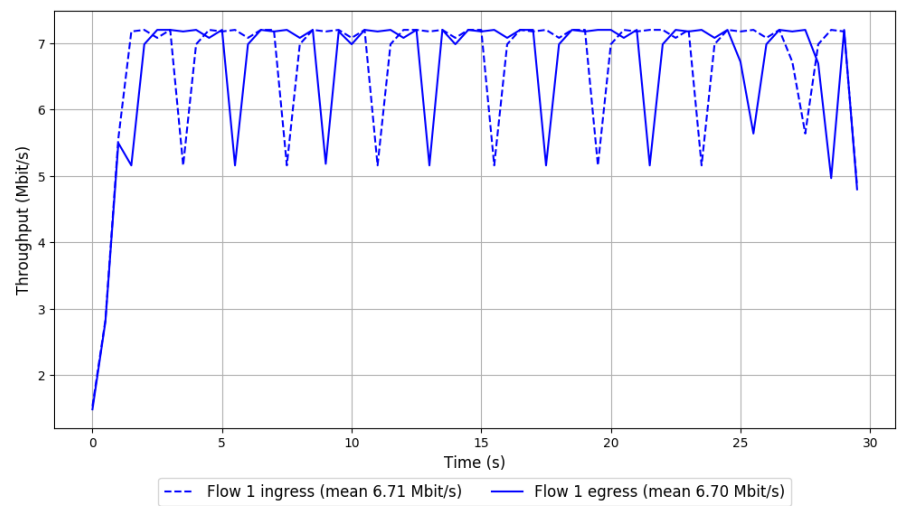
-- Flow 1:

Average throughput: 6.70 Mbit/s

95th percentile per-packet one-way delay: 87.309 ms

Loss rate: 0.69%

Run 6: Report of KohoCC — Data Link



Run 7: Statistics of KohoCC

Start at: 2017-08-16 19:43:43

End at: 2017-08-16 19:44:13

Below is generated by plot.py at 2017-08-16 23:01:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.58 Mbit/s

95th percentile per-packet one-way delay: 87.472 ms

Loss rate: 2.36%

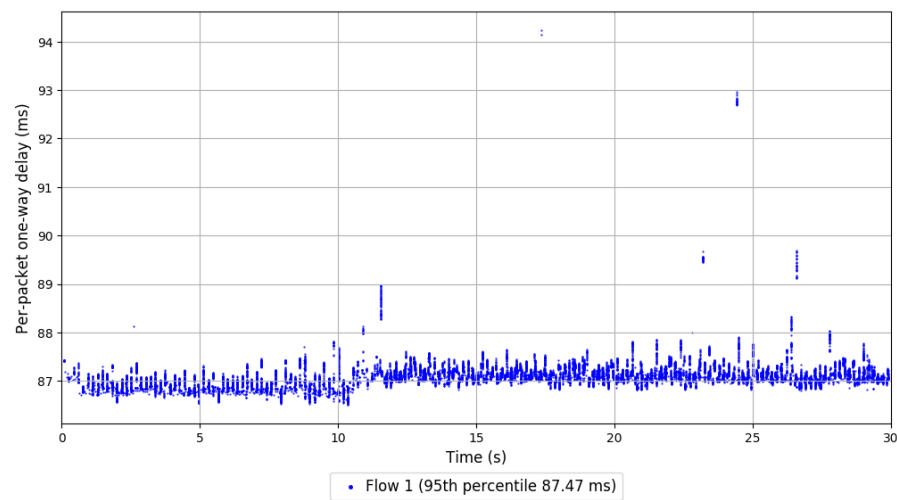
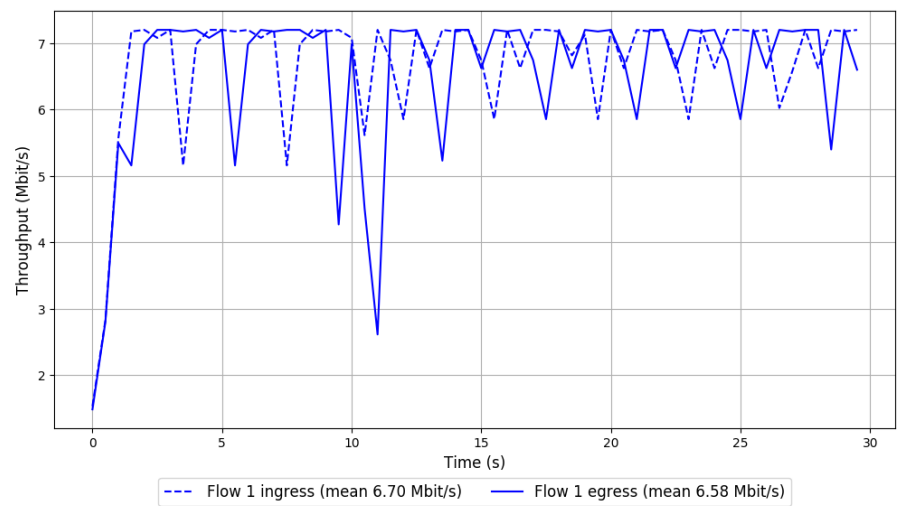
-- Flow 1:

Average throughput: 6.58 Mbit/s

95th percentile per-packet one-way delay: 87.472 ms

Loss rate: 2.36%

Run 7: Report of KohoCC — Data Link



Run 8: Statistics of KohoCC

Start at: 2017-08-16 19:54:47

End at: 2017-08-16 19:55:17

Below is generated by plot.py at 2017-08-16 23:01:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.65 Mbit/s

95th percentile per-packet one-way delay: 87.920 ms

Loss rate: 26.81%

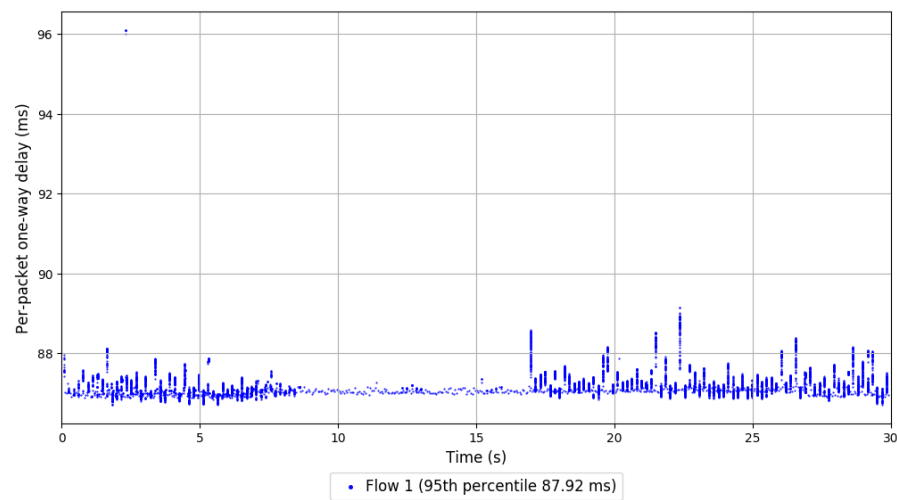
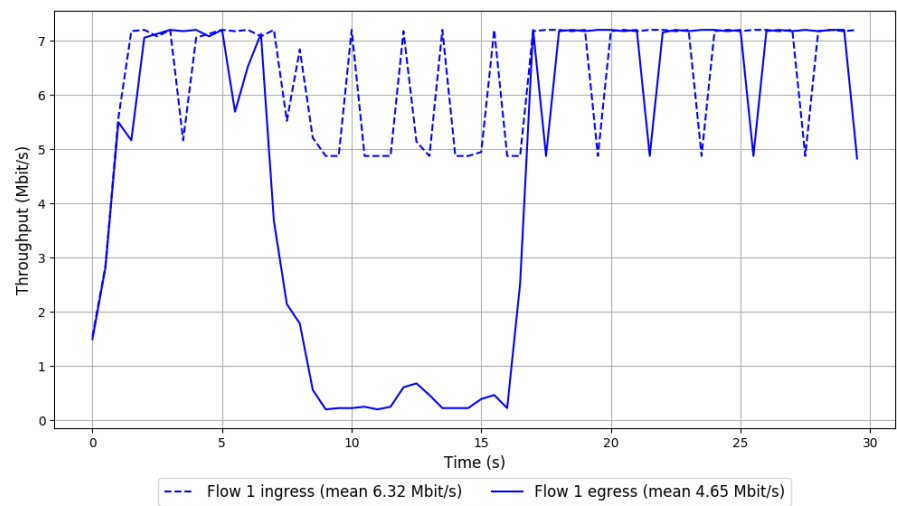
-- Flow 1:

Average throughput: 4.65 Mbit/s

95th percentile per-packet one-way delay: 87.920 ms

Loss rate: 26.81%

Run 8: Report of KohoCC — Data Link



Run 9: Statistics of KohoCC

Start at: 2017-08-16 20:06:11

End at: 2017-08-16 20:06:41

Below is generated by plot.py at 2017-08-16 23:01:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.63 Mbit/s

95th percentile per-packet one-way delay: 87.665 ms

Loss rate: 26.57%

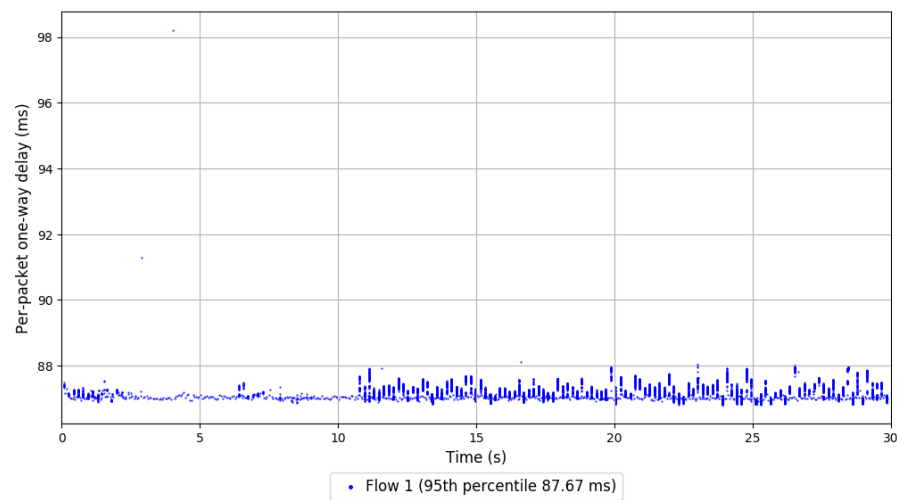
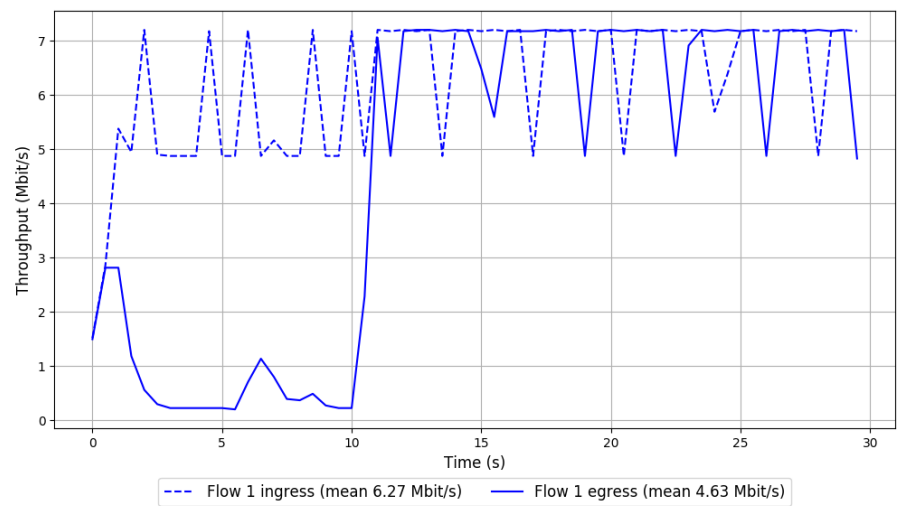
-- Flow 1:

Average throughput: 4.63 Mbit/s

95th percentile per-packet one-way delay: 87.665 ms

Loss rate: 26.57%

Run 9: Report of KohoCC — Data Link



Run 10: Statistics of KohoCC

Start at: 2017-08-16 20:17:11

End at: 2017-08-16 20:17:41

Below is generated by plot.py at 2017-08-16 23:01:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.69 Mbit/s

95th percentile per-packet one-way delay: 87.736 ms

Loss rate: 27.28%

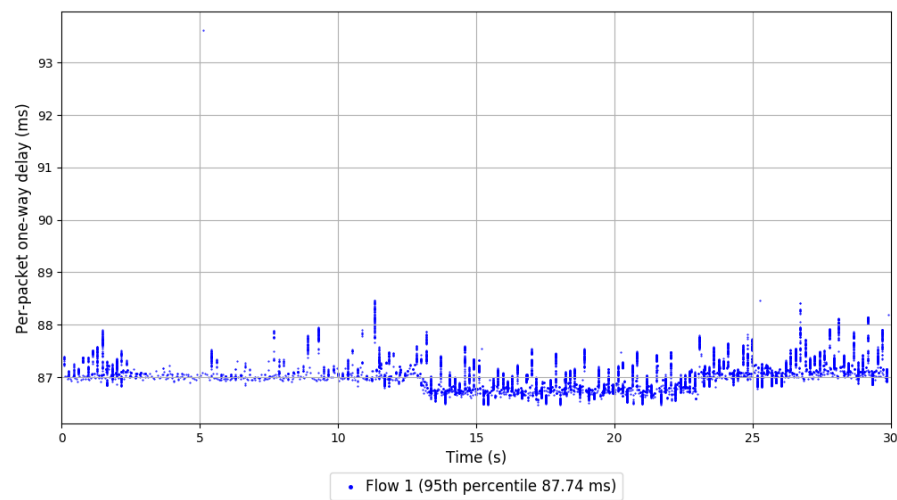
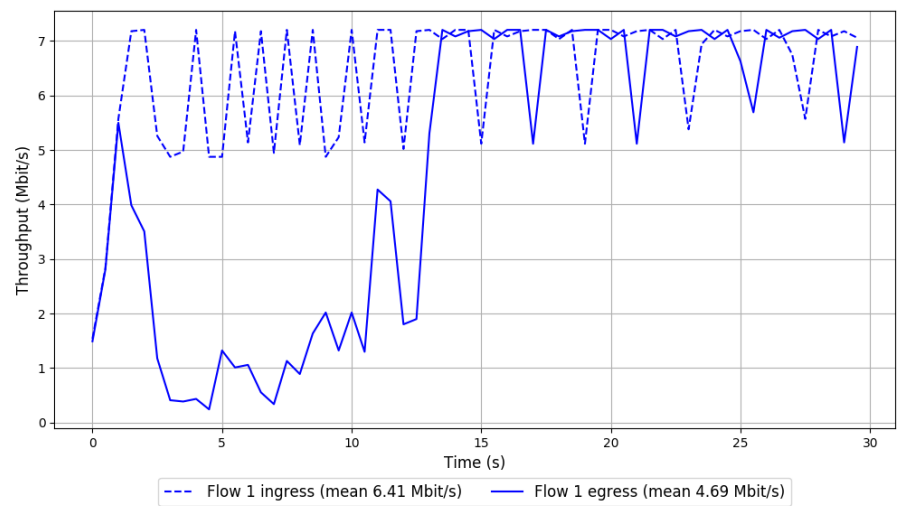
-- Flow 1:

Average throughput: 4.69 Mbit/s

95th percentile per-packet one-way delay: 87.736 ms

Loss rate: 27.28%

Run 10: Report of KohoCC — Data Link

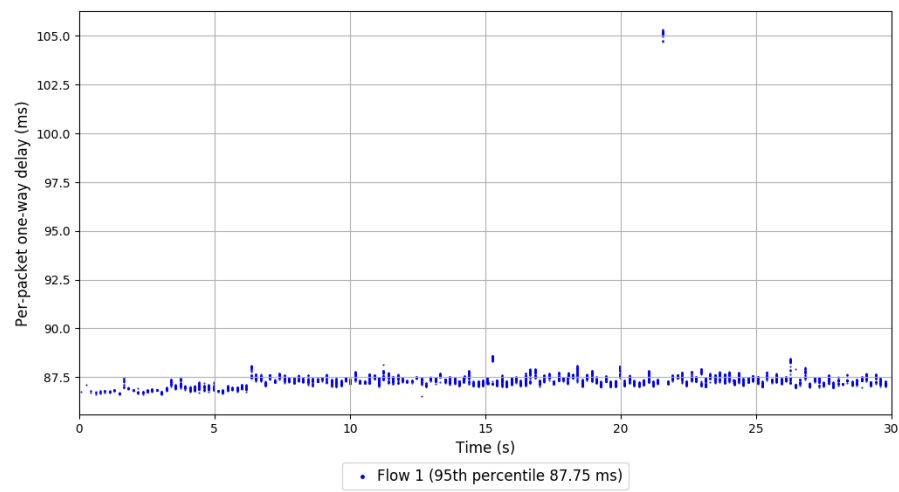
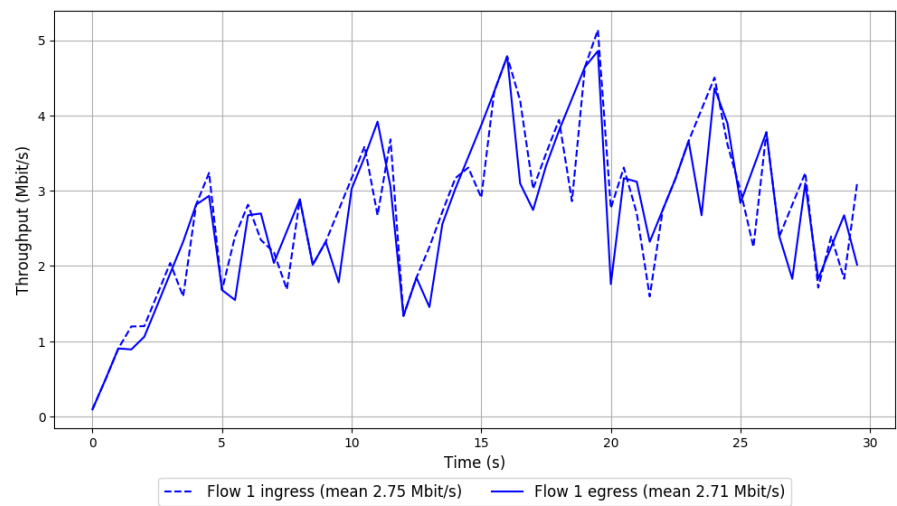


```
Run 1: Statistics of LEDBAT

Start at: 2017-08-16 18:32:56
End at: 2017-08-16 18:33:26

# Below is generated by plot.py at 2017-08-16 23:01:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.71 Mbit/s
95th percentile per-packet one-way delay: 87.750 ms
Loss rate: 2.02%
-- Flow 1:
Average throughput: 2.71 Mbit/s
95th percentile per-packet one-way delay: 87.750 ms
Loss rate: 2.02%
```

Run 1: Report of LEDBAT — Data Link

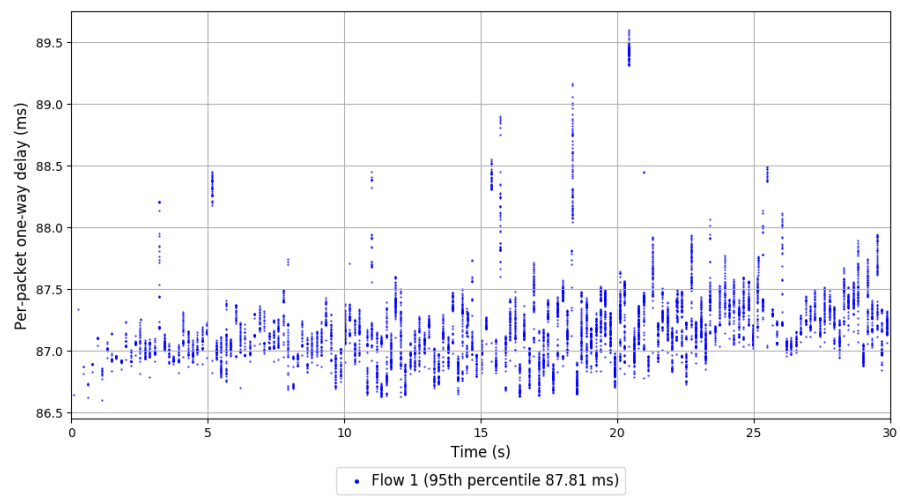
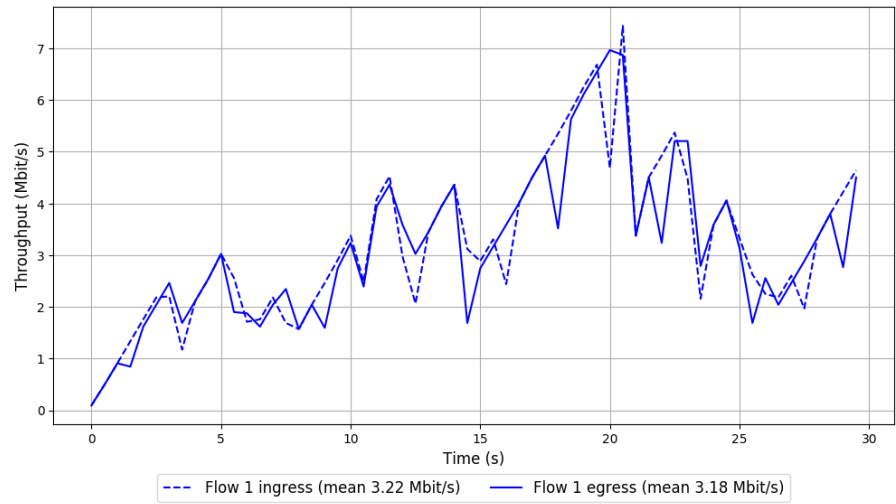


```
Run 2: Statistics of LEDBAT

Start at: 2017-08-16 18:43:39
End at: 2017-08-16 18:44:09

# Below is generated by plot.py at 2017-08-16 23:01:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.18 Mbit/s
95th percentile per-packet one-way delay: 87.805 ms
Loss rate: 1.82%
-- Flow 1:
Average throughput: 3.18 Mbit/s
95th percentile per-packet one-way delay: 87.805 ms
Loss rate: 1.82%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-08-16 18:54:30

End at: 2017-08-16 18:55:00

Below is generated by plot.py at 2017-08-16 23:01:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.59 Mbit/s

95th percentile per-packet one-way delay: 87.800 ms

Loss rate: 2.11%

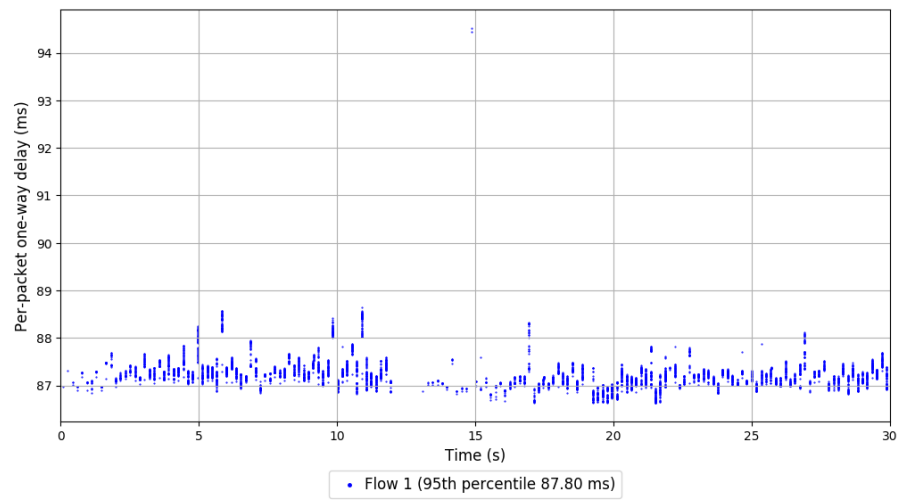
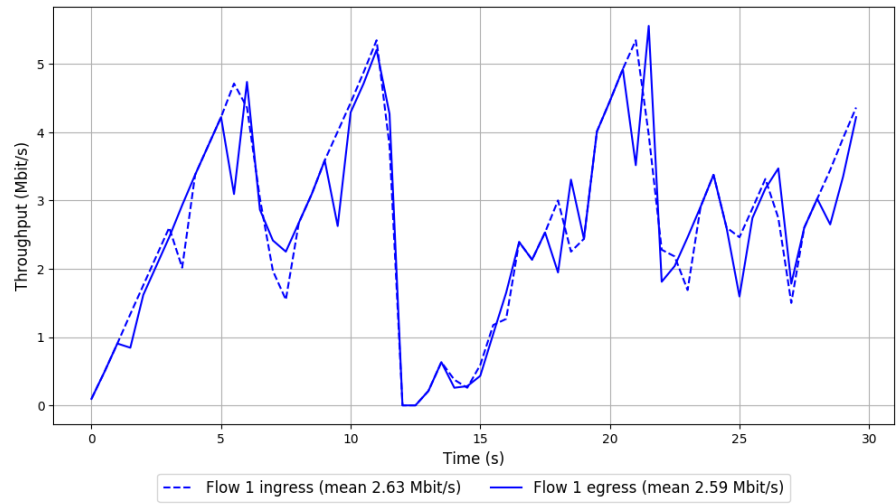
-- Flow 1:

Average throughput: 2.59 Mbit/s

95th percentile per-packet one-way delay: 87.800 ms

Loss rate: 2.11%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-08-16 19:05:51

End at: 2017-08-16 19:06:21

Below is generated by plot.py at 2017-08-16 23:01:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 87.538 ms

Loss rate: 2.06%

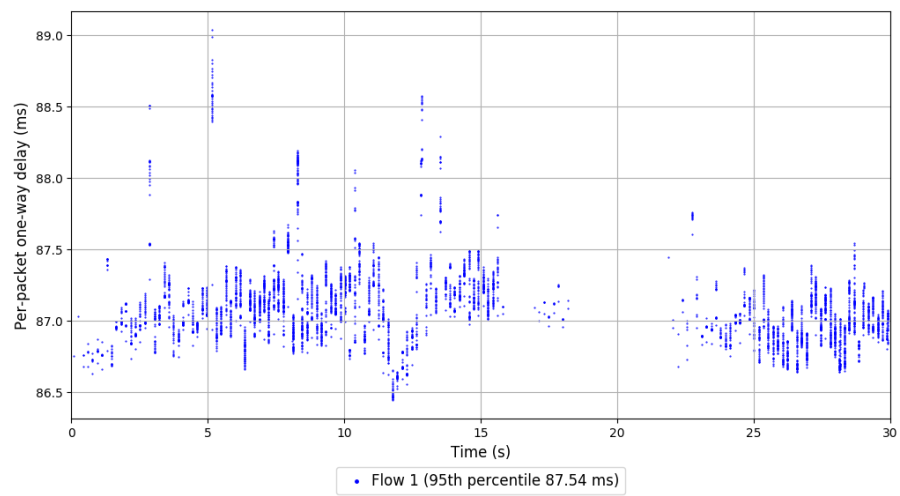
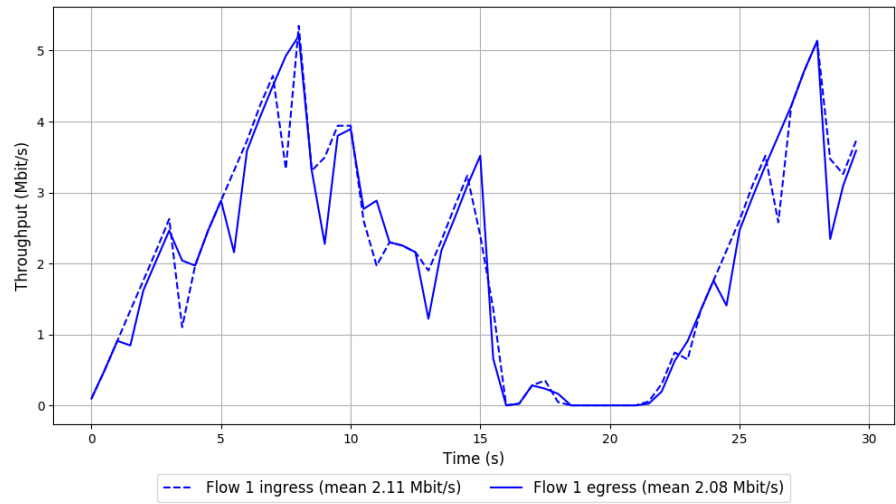
-- Flow 1:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 87.538 ms

Loss rate: 2.06%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-08-16 19:16:54

End at: 2017-08-16 19:17:24

Below is generated by plot.py at 2017-08-16 23:01:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 87.797 ms

Loss rate: 2.01%

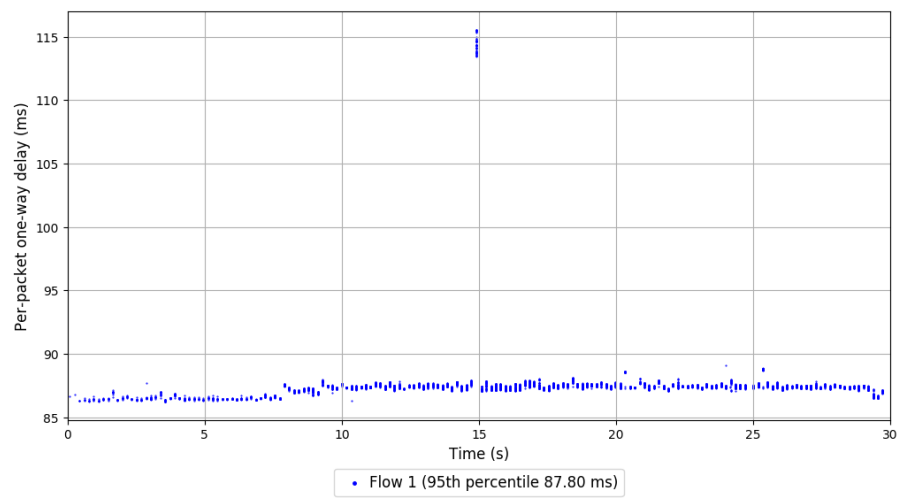
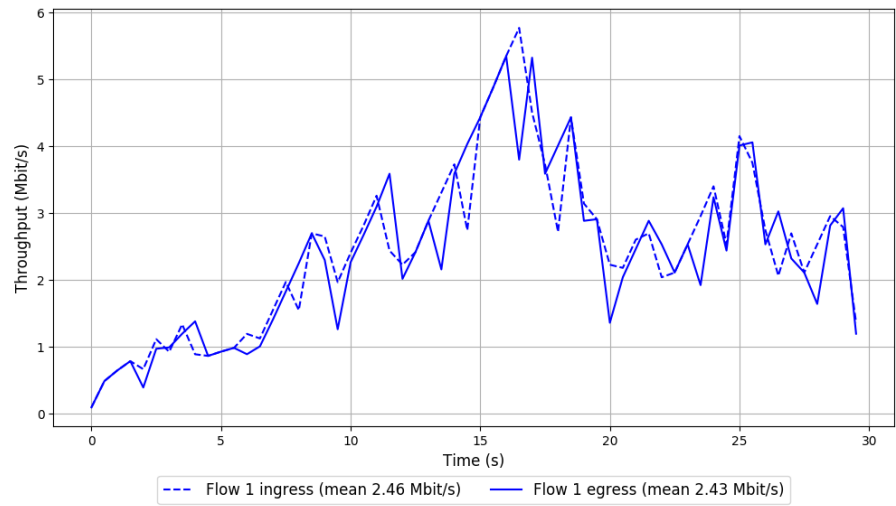
-- Flow 1:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 87.797 ms

Loss rate: 2.01%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-08-16 19:28:02

End at: 2017-08-16 19:28:32

Below is generated by plot.py at 2017-08-16 23:01:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.56 Mbit/s

95th percentile per-packet one-way delay: 87.771 ms

Loss rate: 1.14%

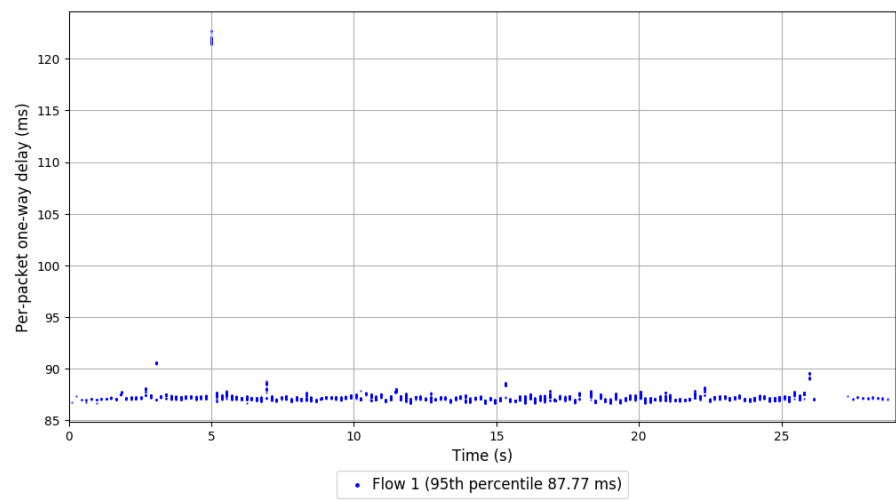
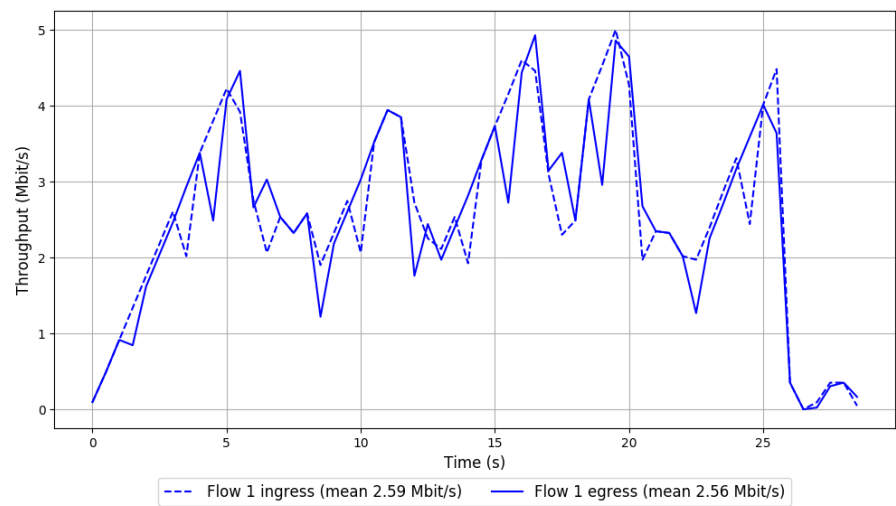
-- Flow 1:

Average throughput: 2.56 Mbit/s

95th percentile per-packet one-way delay: 87.771 ms

Loss rate: 1.14%

Run 6: Report of LEDBAT — Data Link

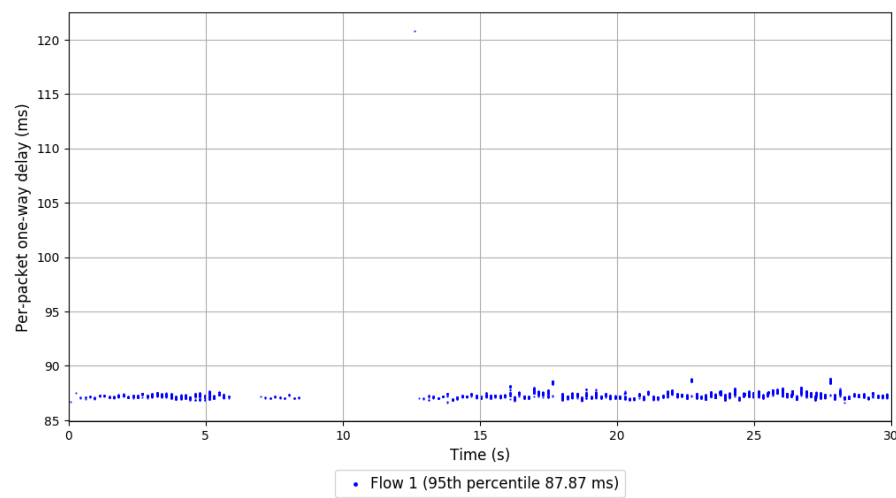
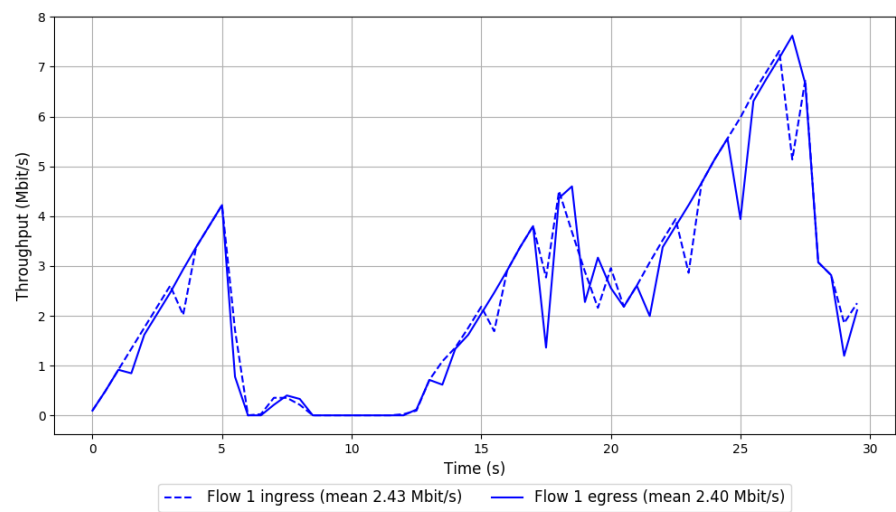


```
Run 7: Statistics of LEDBAT

Start at: 2017-08-16 19:39:02
End at: 2017-08-16 19:39:32

# Below is generated by plot.py at 2017-08-16 23:01:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 87.867 ms
Loss rate: 1.68%
-- Flow 1:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 87.867 ms
Loss rate: 1.68%
```


Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-08-16 19:50:03

End at: 2017-08-16 19:50:33

Below is generated by plot.py at 2017-08-16 23:01:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.60 Mbit/s

95th percentile per-packet one-way delay: 87.668 ms

Loss rate: 1.76%

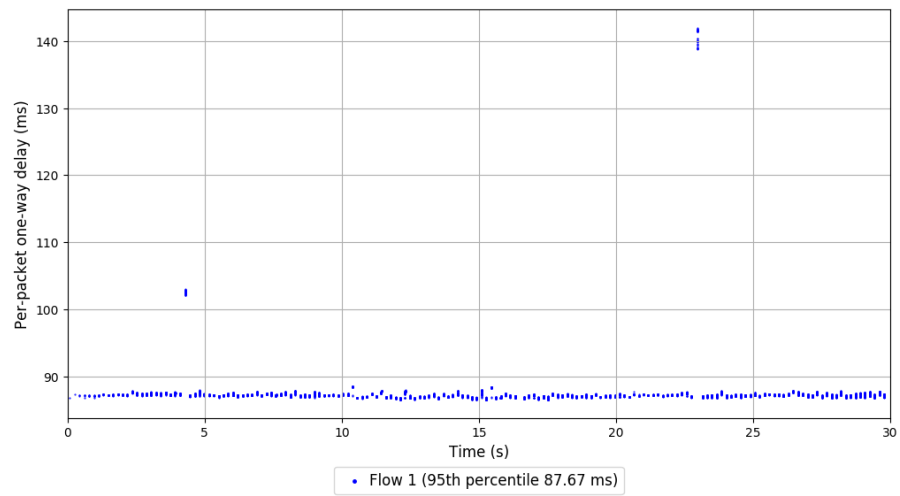
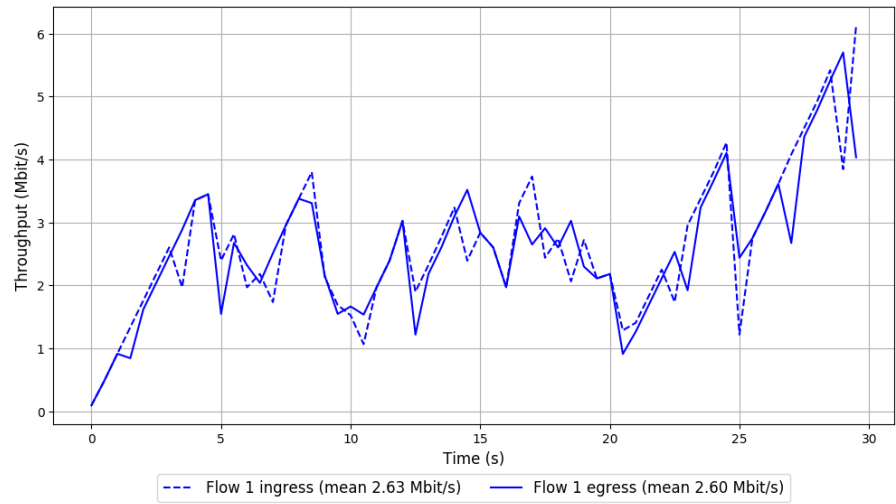
-- Flow 1:

Average throughput: 2.60 Mbit/s

95th percentile per-packet one-way delay: 87.668 ms

Loss rate: 1.76%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-08-16 20:01:03

End at: 2017-08-16 20:01:33

Below is generated by plot.py at 2017-08-16 23:01:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 87.630 ms

Loss rate: 1.32%

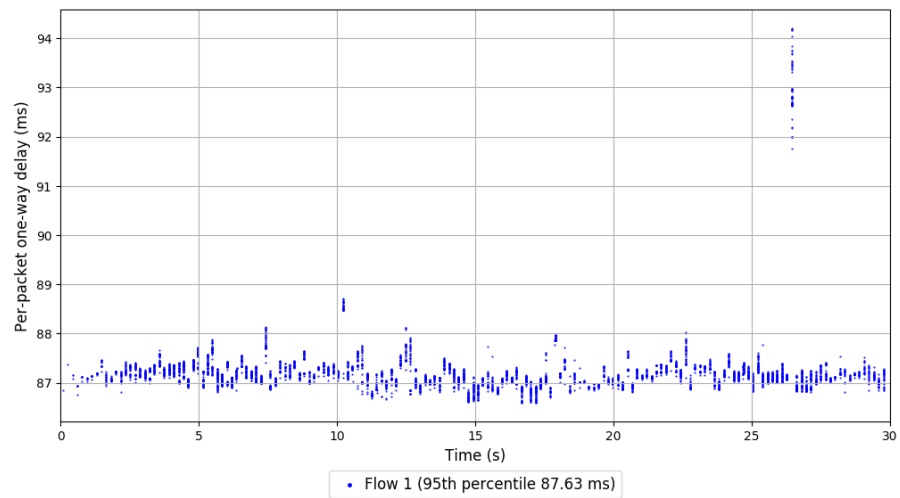
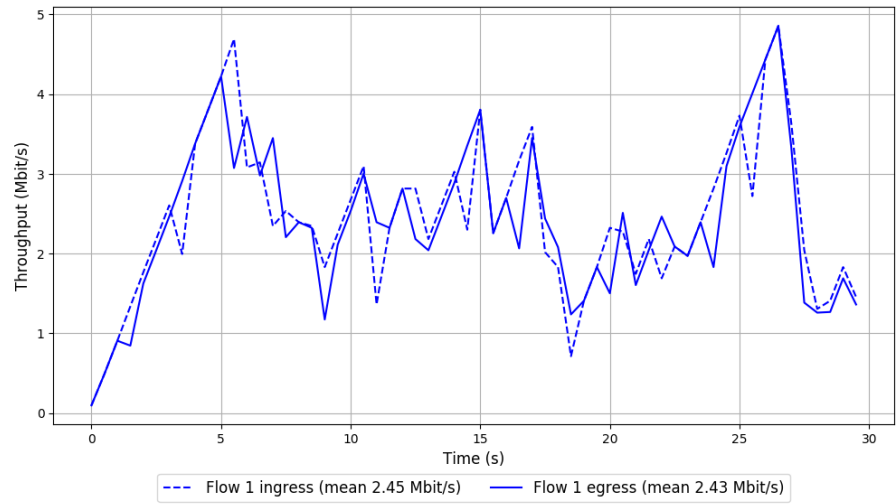
-- Flow 1:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 87.630 ms

Loss rate: 1.32%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-08-16 20:12:23

End at: 2017-08-16 20:12:53

Below is generated by plot.py at 2017-08-16 23:01:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.70 Mbit/s

95th percentile per-packet one-way delay: 87.429 ms

Loss rate: 1.71%

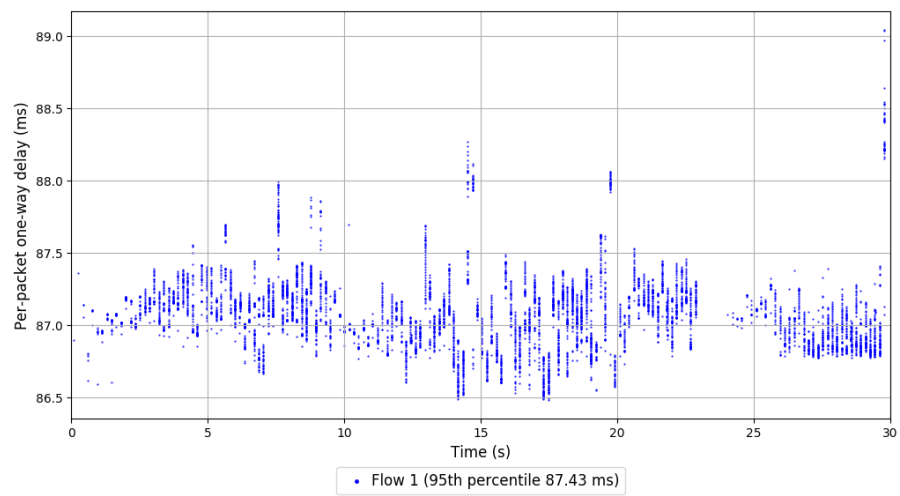
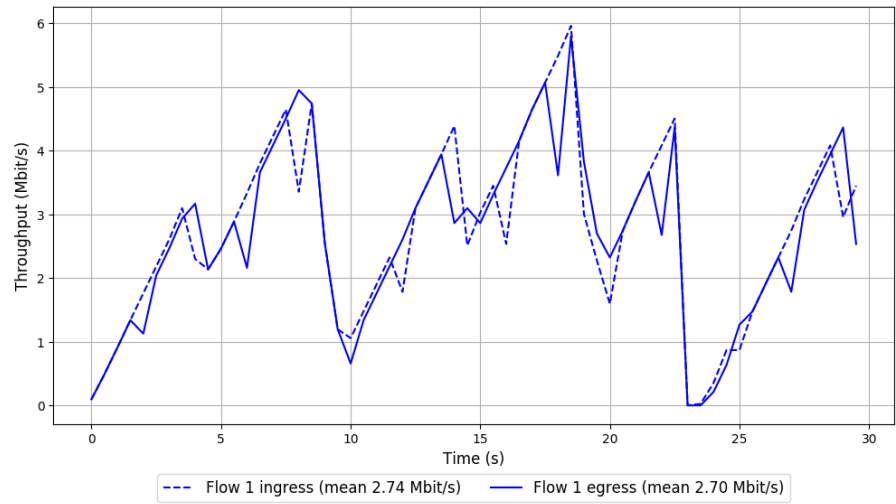
-- Flow 1:

Average throughput: 2.70 Mbit/s

95th percentile per-packet one-way delay: 87.429 ms

Loss rate: 1.71%

Run 10: Report of LEDBAT — Data Link

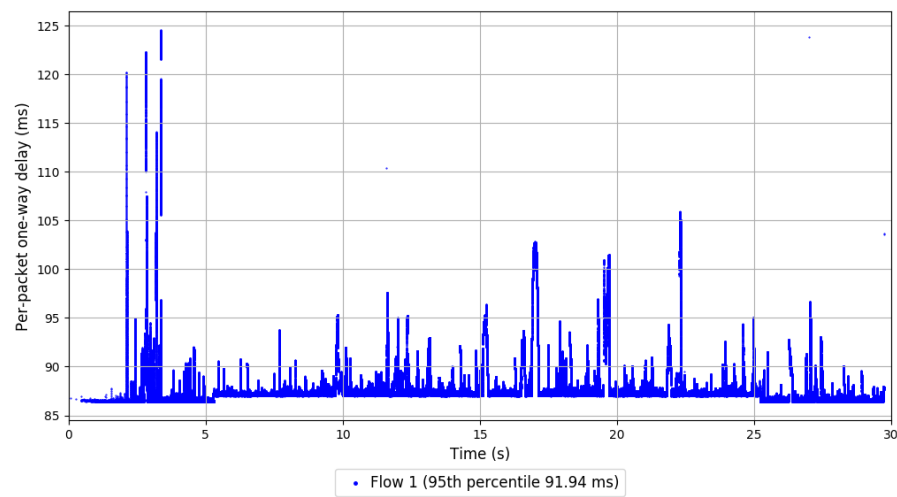
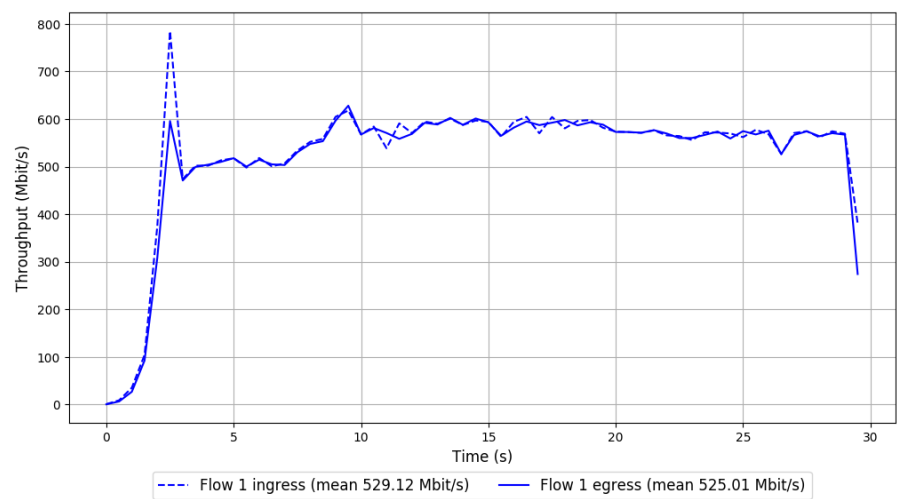


```
Run 1: Statistics of PCC

Start at: 2017-08-16 18:30:27
End at: 2017-08-16 18:30:57

# Below is generated by plot.py at 2017-08-16 23:03:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 525.01 Mbit/s
95th percentile per-packet one-way delay: 91.936 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 525.01 Mbit/s
95th percentile per-packet one-way delay: 91.936 ms
Loss rate: 1.32%
```


Run 1: Report of PCC — Data Link

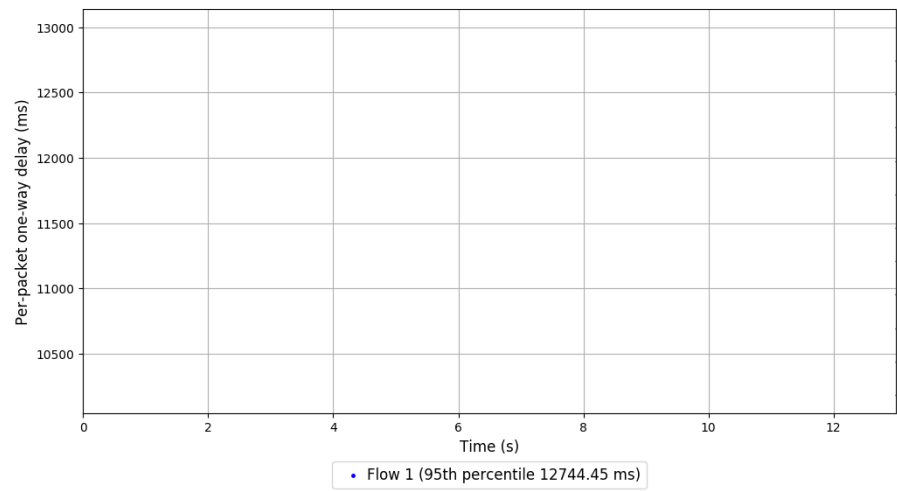
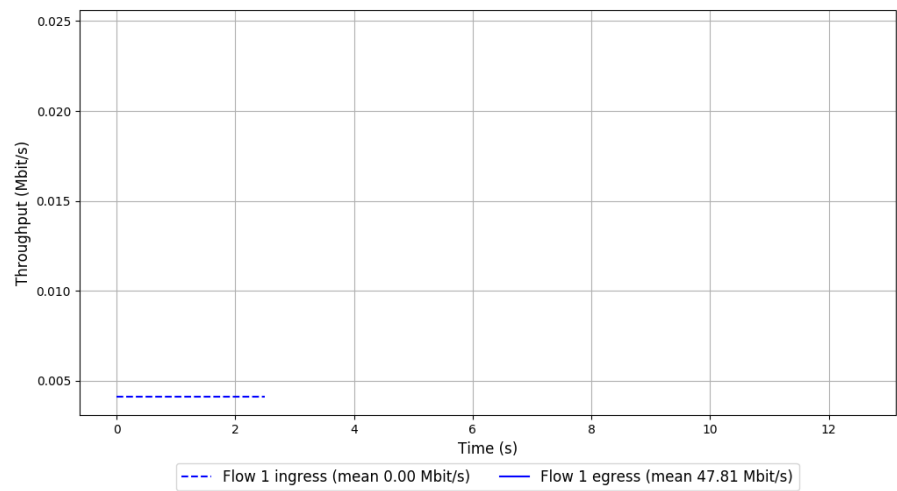


Run 2: Statistics of PCC

Start at: 2017-08-16 18:41:11

End at: 2017-08-16 18:41:41

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-08-16 18:51:56

End at: 2017-08-16 18:52:26

Below is generated by plot.py at 2017-08-16 23:03:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 528.45 Mbit/s

95th percentile per-packet one-way delay: 122.896 ms

Loss rate: 2.16%

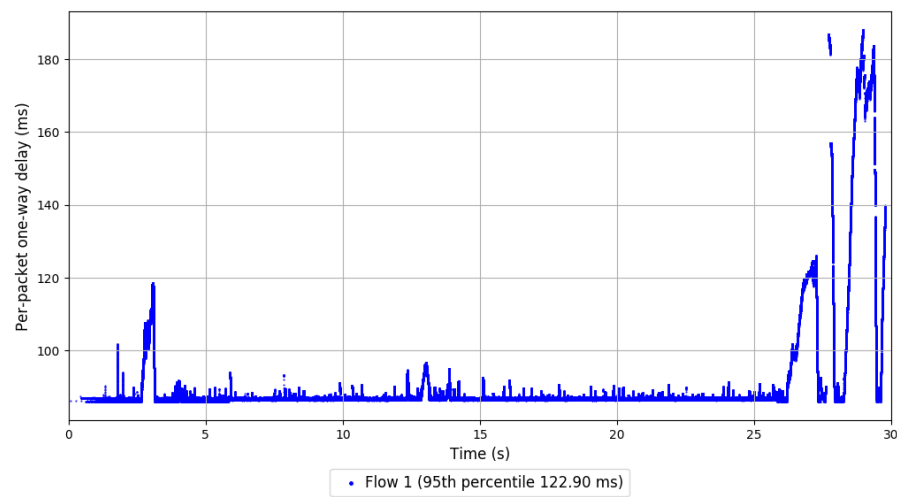
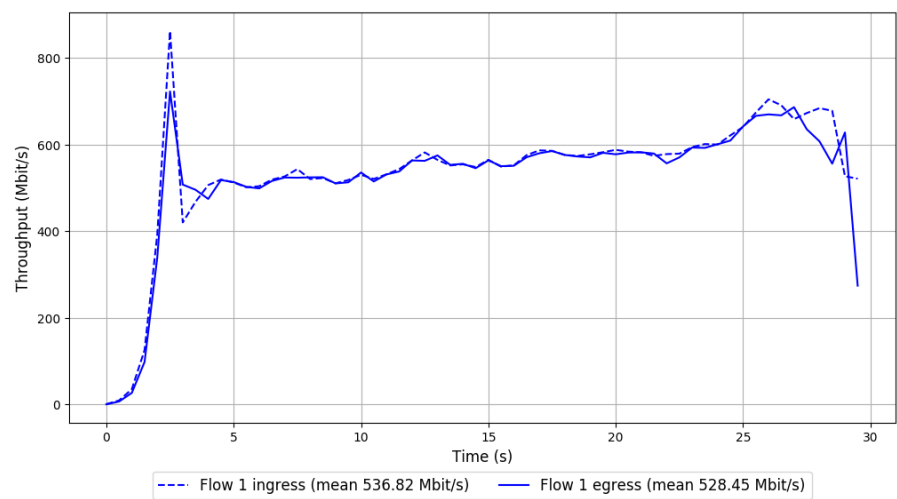
-- Flow 1:

Average throughput: 528.45 Mbit/s

95th percentile per-packet one-way delay: 122.896 ms

Loss rate: 2.16%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-08-16 19:02:58

End at: 2017-08-16 19:03:28

Below is generated by plot.py at 2017-08-16 23:04:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 531.07 Mbit/s

95th percentile per-packet one-way delay: 143.695 ms

Loss rate: 4.64%

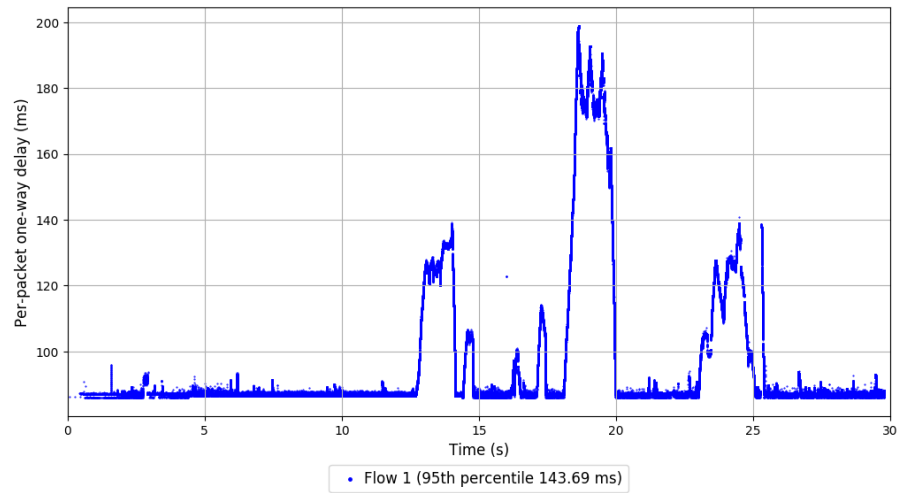
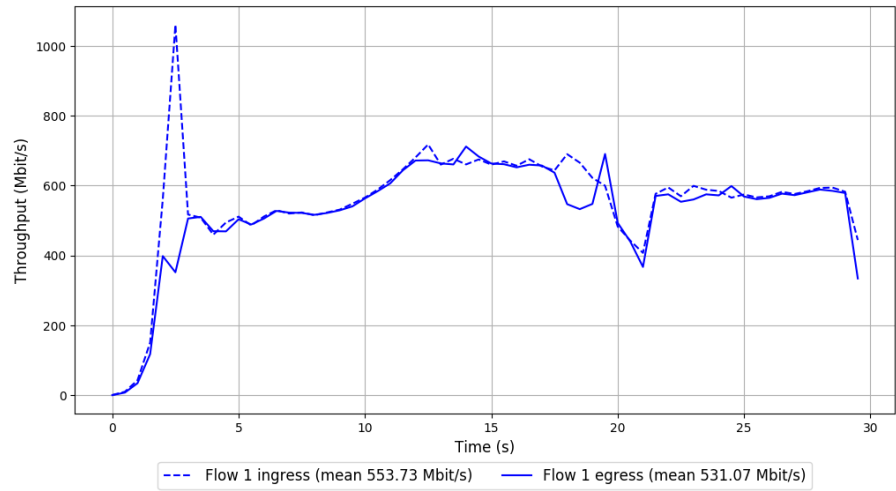
-- Flow 1:

Average throughput: 531.07 Mbit/s

95th percentile per-packet one-way delay: 143.695 ms

Loss rate: 4.64%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-08-16 19:14:12

End at: 2017-08-16 19:14:42

Below is generated by plot.py at 2017-08-16 23:04:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 542.48 Mbit/s

95th percentile per-packet one-way delay: 128.309 ms

Loss rate: 1.33%

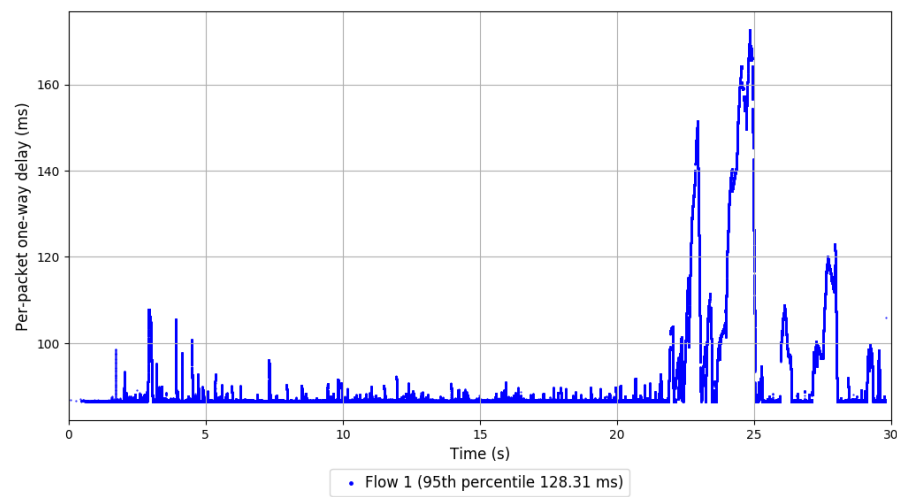
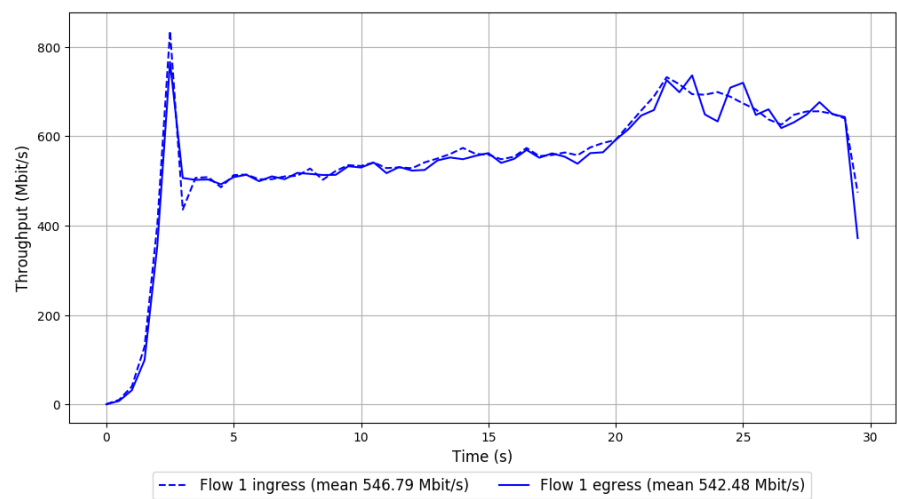
-- Flow 1:

Average throughput: 542.48 Mbit/s

95th percentile per-packet one-way delay: 128.309 ms

Loss rate: 1.33%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-08-16 19:25:24

End at: 2017-08-16 19:25:54

Below is generated by plot.py at 2017-08-16 23:05:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 437.68 Mbit/s

95th percentile per-packet one-way delay: 115.167 ms

Loss rate: 1.42%

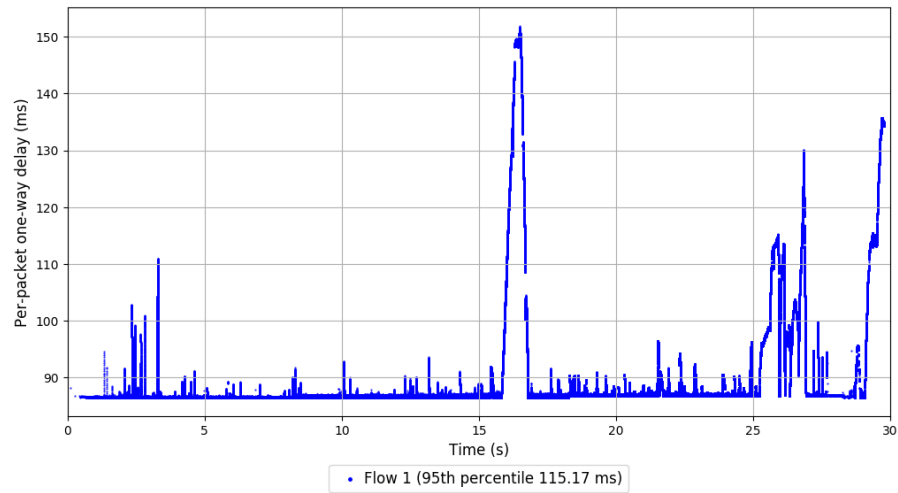
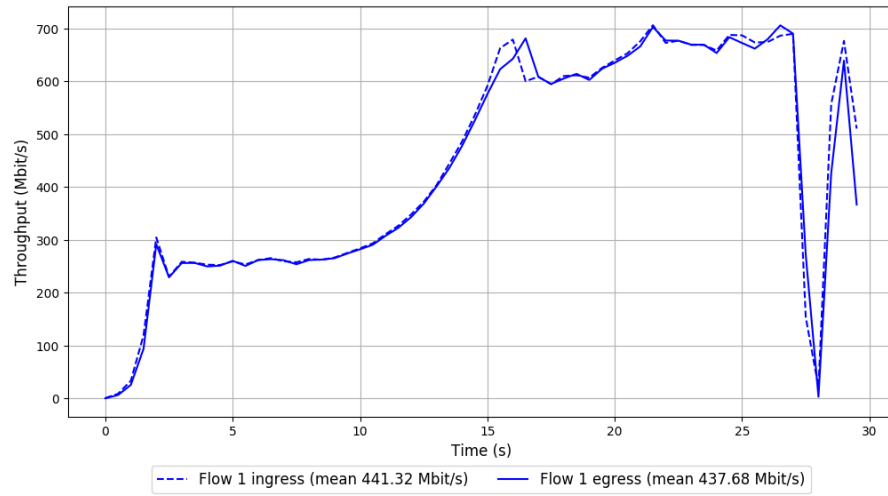
-- Flow 1:

Average throughput: 437.68 Mbit/s

95th percentile per-packet one-way delay: 115.167 ms

Loss rate: 1.42%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-08-16 19:36:29

End at: 2017-08-16 19:36:59

Below is generated by plot.py at 2017-08-16 23:06:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 514.44 Mbit/s

95th percentile per-packet one-way delay: 98.690 ms

Loss rate: 3.05%

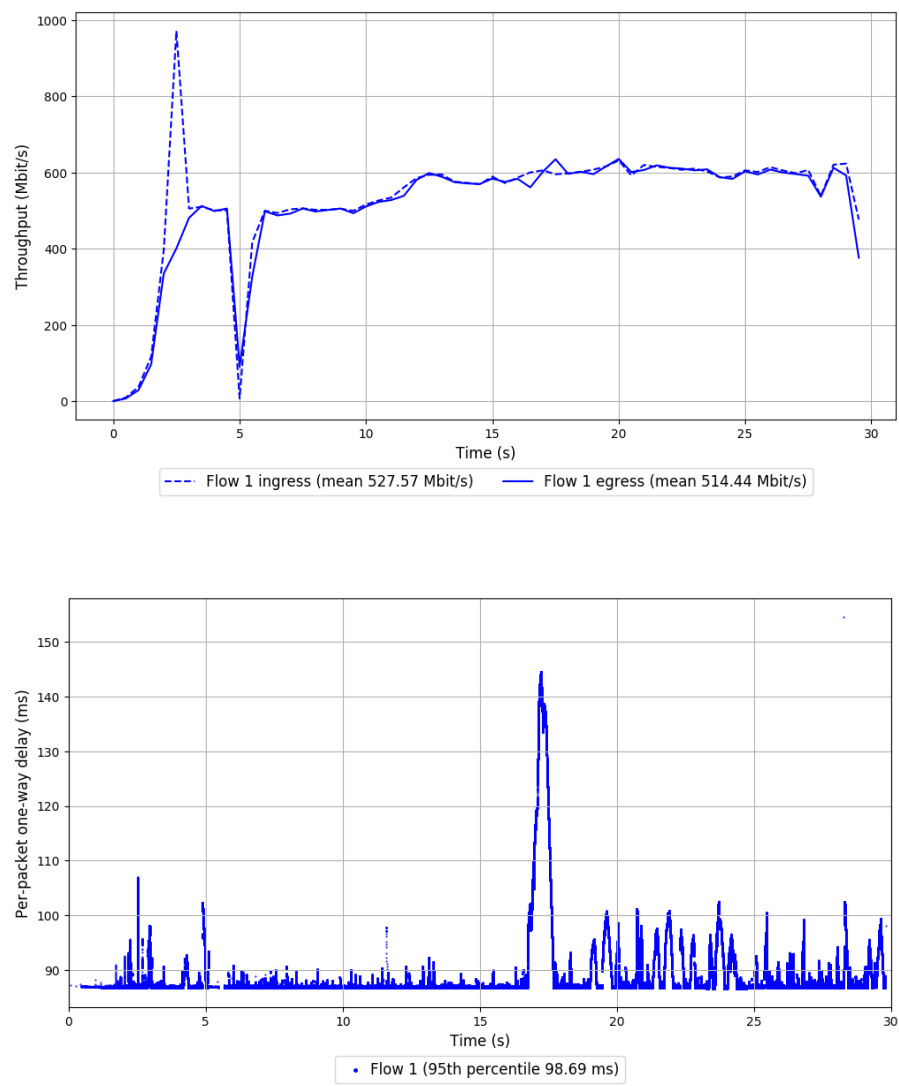
-- Flow 1:

Average throughput: 514.44 Mbit/s

95th percentile per-packet one-way delay: 98.690 ms

Loss rate: 3.05%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-08-16 19:47:16

End at: 2017-08-16 19:47:46

Below is generated by plot.py at 2017-08-16 23:07:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 427.41 Mbit/s

95th percentile per-packet one-way delay: 164.307 ms

Loss rate: 23.78%

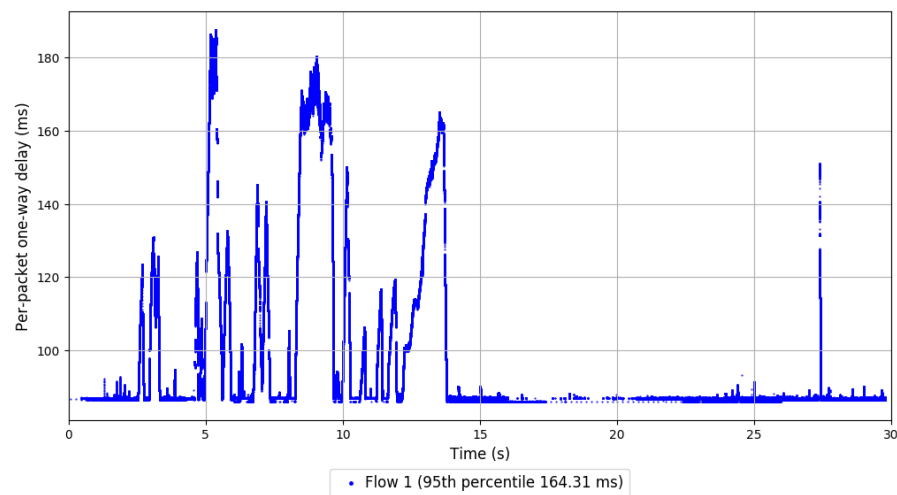
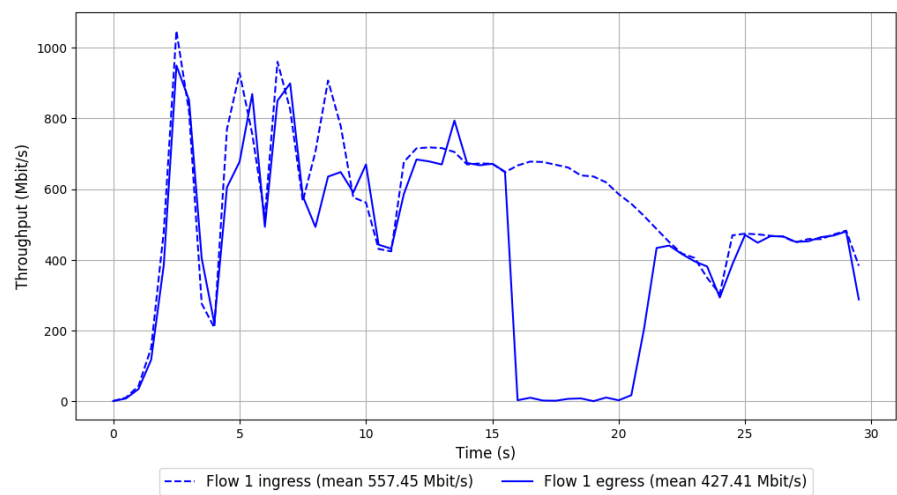
-- Flow 1:

Average throughput: 427.41 Mbit/s

95th percentile per-packet one-way delay: 164.307 ms

Loss rate: 23.78%

Run 8: Report of PCC — Data Link

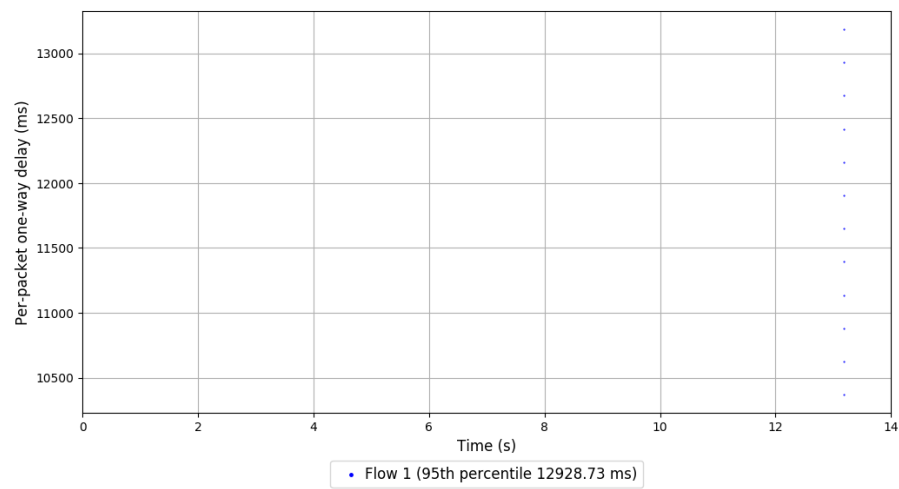
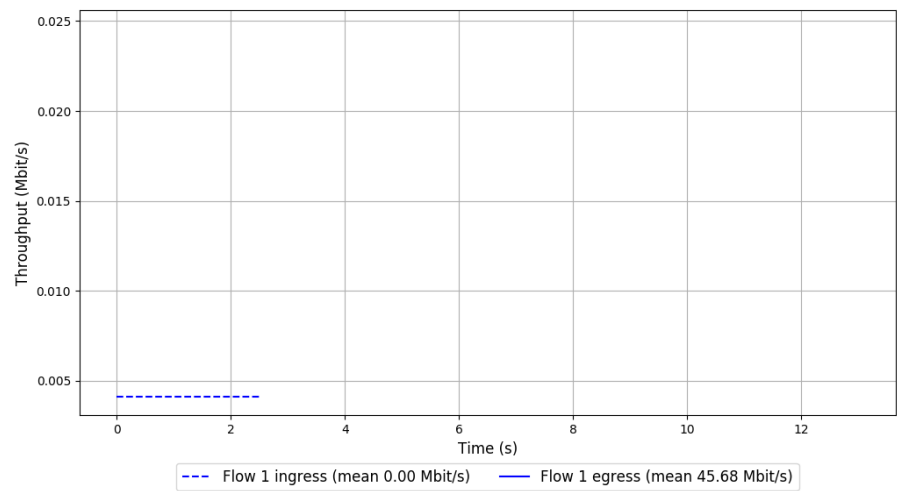


Run 9: Statistics of PCC

Start at: 2017-08-16 19:58:19

End at: 2017-08-16 19:58:49

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-08-16 20:09:46

End at: 2017-08-16 20:10:16

Below is generated by plot.py at 2017-08-16 23:07:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 501.45 Mbit/s

95th percentile per-packet one-way delay: 88.906 ms

Loss rate: 1.62%

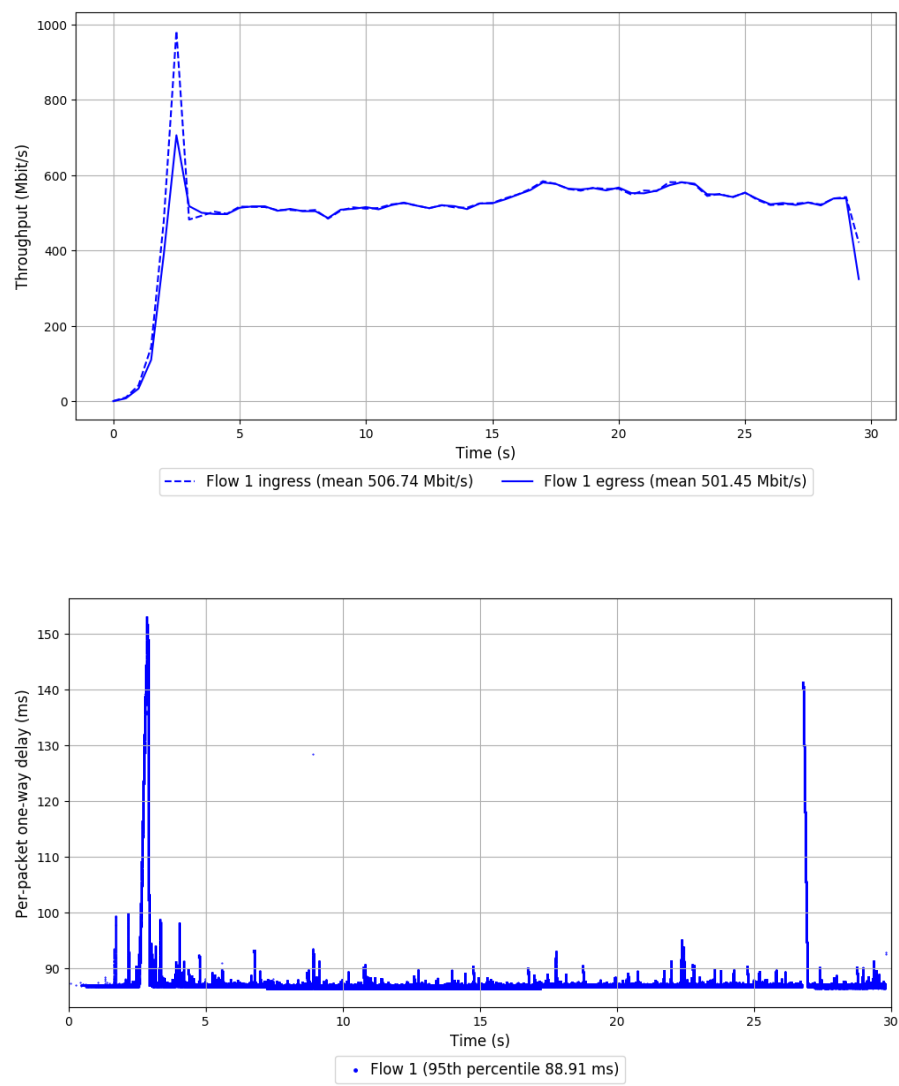
-- Flow 1:

Average throughput: 501.45 Mbit/s

95th percentile per-packet one-way delay: 88.906 ms

Loss rate: 1.62%

Run 10: Report of PCC — Data Link

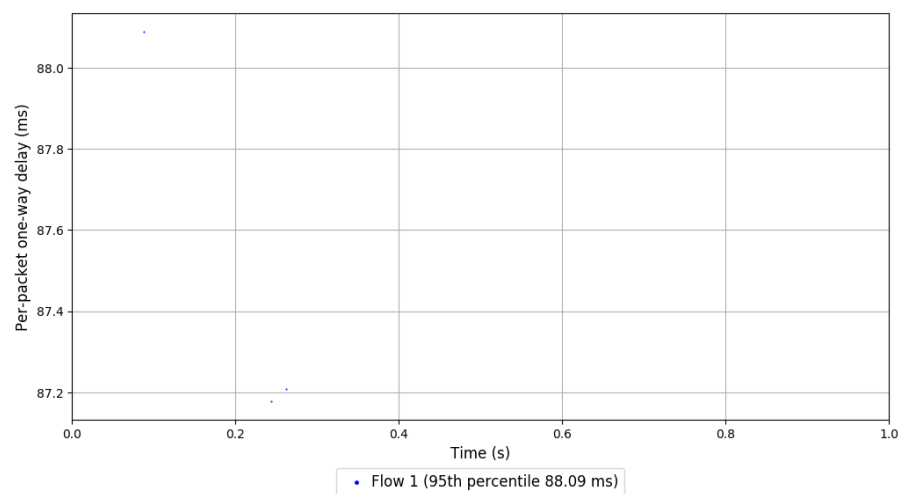
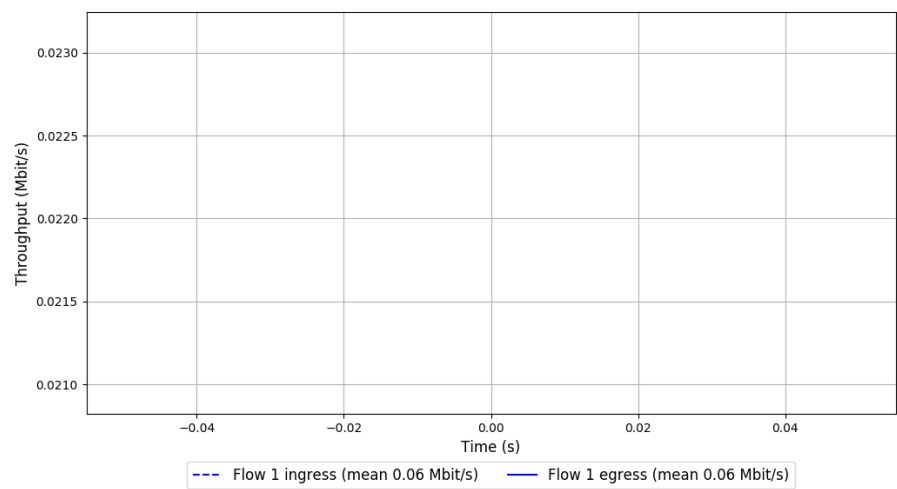


Run 1: Statistics of QUIC Cubic

Start at: 2017-08-16 18:36:16

End at: 2017-08-16 18:36:46

Run 1: Report of QUIC Cubic — Data Link

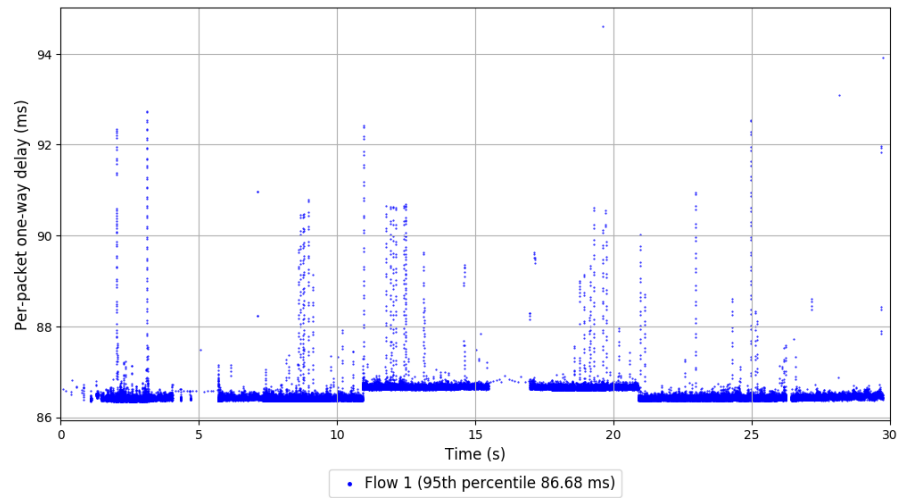
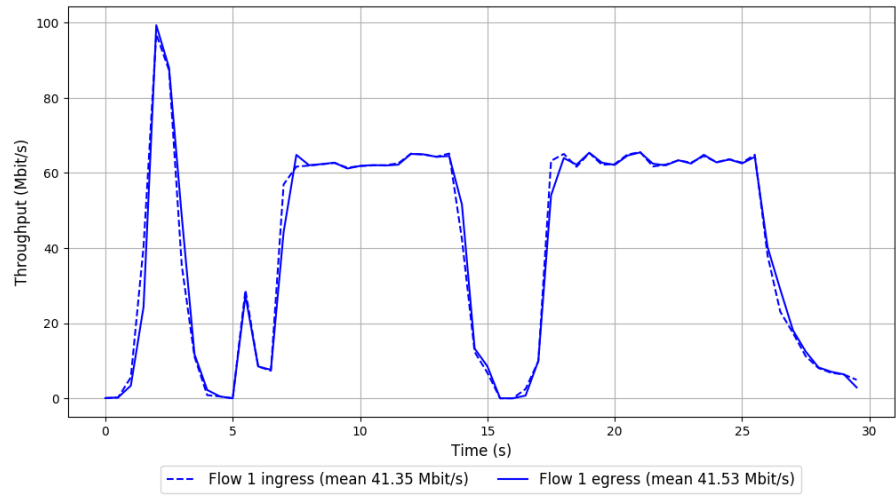


```
Run 2: Statistics of QUIC Cubic

Start at: 2017-08-16 18:47:01
End at: 2017-08-16 18:47:31

# Below is generated by plot.py at 2017-08-16 23:07:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.53 Mbit/s
95th percentile per-packet one-way delay: 86.678 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 41.53 Mbit/s
95th percentile per-packet one-way delay: 86.678 ms
Loss rate: 0.12%
```

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-08-16 18:57:55

End at: 2017-08-16 18:58:25

Below is generated by plot.py at 2017-08-16 23:07:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.91 Mbit/s

95th percentile per-packet one-way delay: 86.775 ms

Loss rate: 0.83%

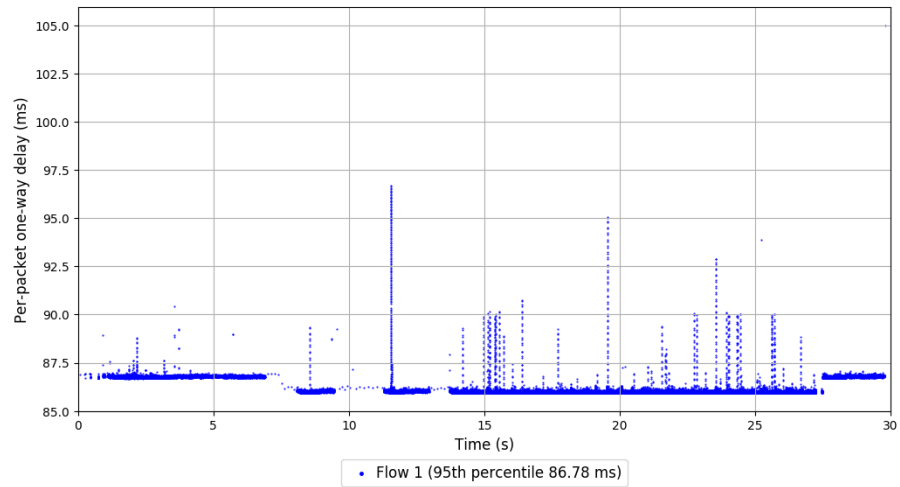
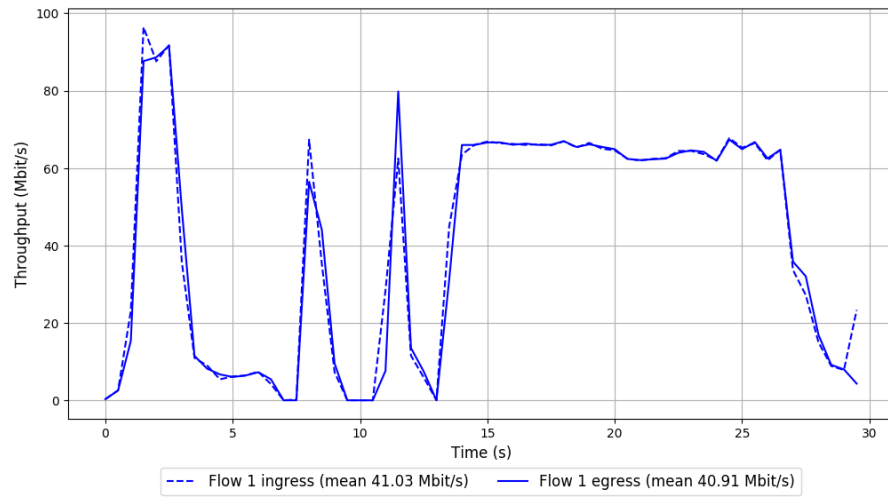
-- Flow 1:

Average throughput: 40.91 Mbit/s

95th percentile per-packet one-way delay: 86.775 ms

Loss rate: 0.83%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-08-16 19:09:14

End at: 2017-08-16 19:09:44

Below is generated by plot.py at 2017-08-16 23:07:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.39 Mbit/s

95th percentile per-packet one-way delay: 86.150 ms

Loss rate: 0.78%

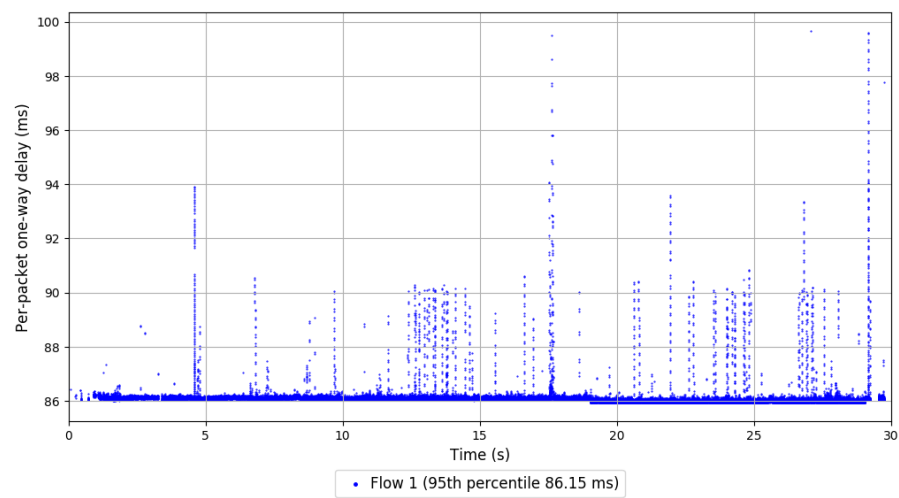
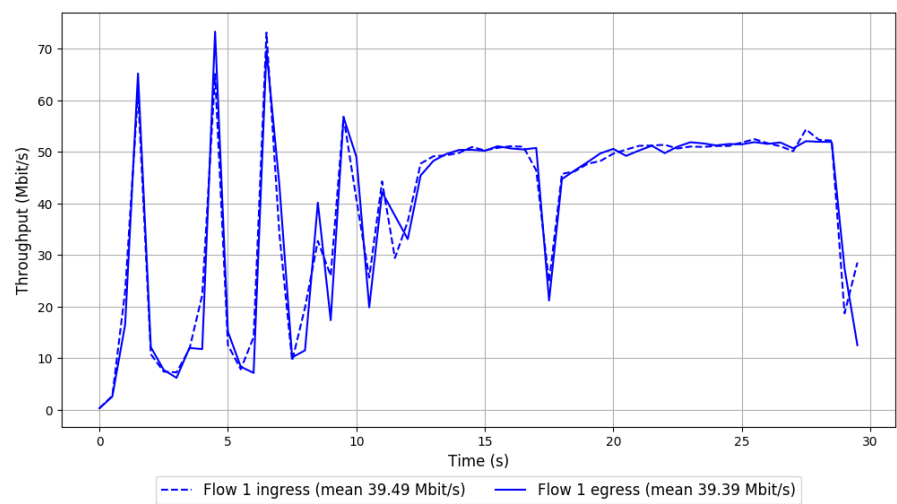
-- Flow 1:

Average throughput: 39.39 Mbit/s

95th percentile per-packet one-way delay: 86.150 ms

Loss rate: 0.78%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-08-16 19:20:22

End at: 2017-08-16 19:20:52

Below is generated by plot.py at 2017-08-16 23:07:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.05 Mbit/s

95th percentile per-packet one-way delay: 86.815 ms

Loss rate: 0.64%

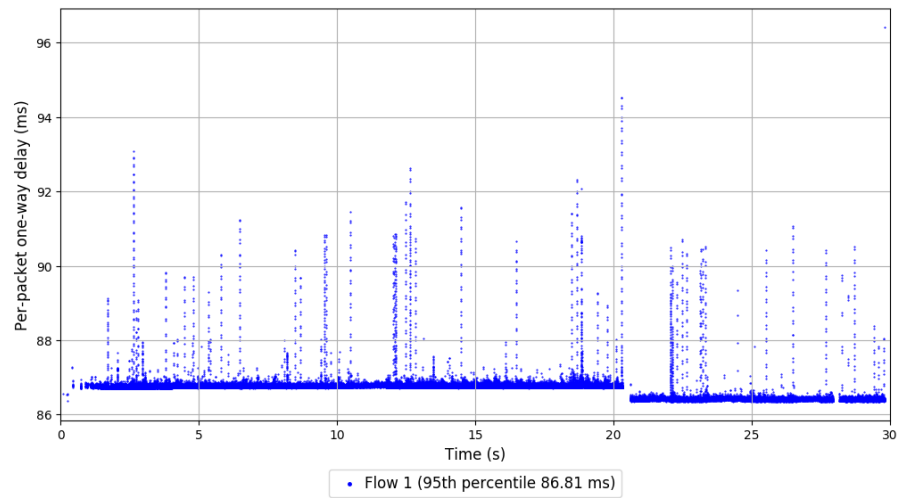
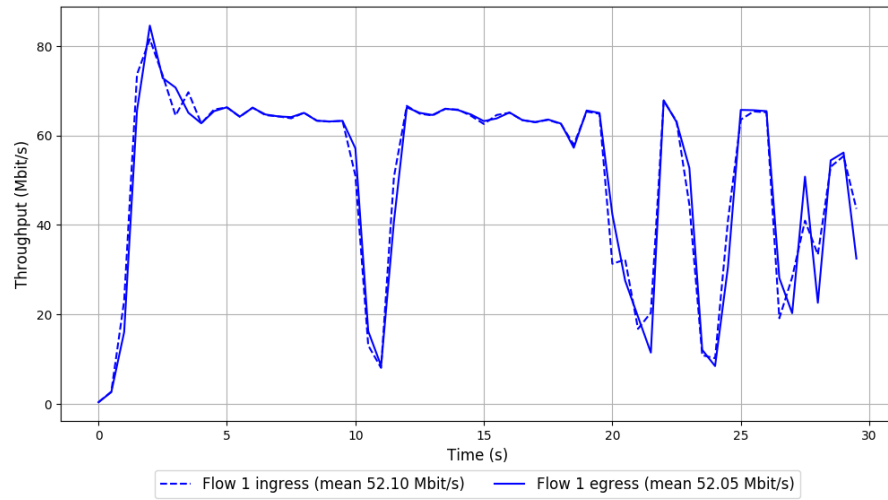
-- Flow 1:

Average throughput: 52.05 Mbit/s

95th percentile per-packet one-way delay: 86.815 ms

Loss rate: 0.64%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-08-16 19:31:30

End at: 2017-08-16 19:32:00

Below is generated by plot.py at 2017-08-16 23:07:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.66 Mbit/s

95th percentile per-packet one-way delay: 86.556 ms

Loss rate: 0.52%

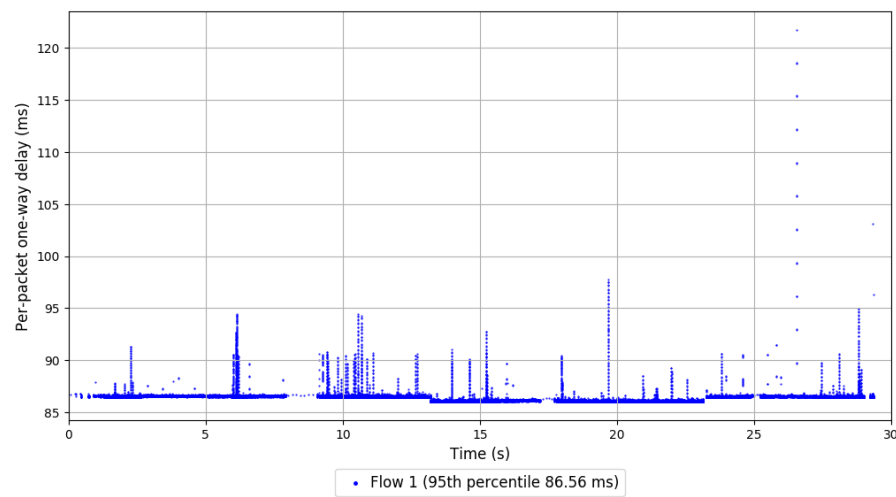
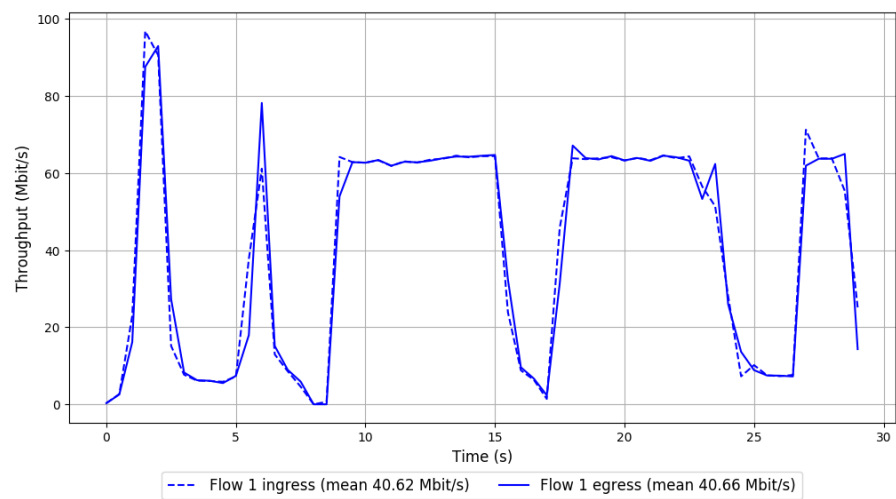
-- Flow 1:

Average throughput: 40.66 Mbit/s

95th percentile per-packet one-way delay: 86.556 ms

Loss rate: 0.52%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-08-16 19:42:21

End at: 2017-08-16 19:42:51

Below is generated by plot.py at 2017-08-16 23:07:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.65 Mbit/s

95th percentile per-packet one-way delay: 86.515 ms

Loss rate: 0.79%

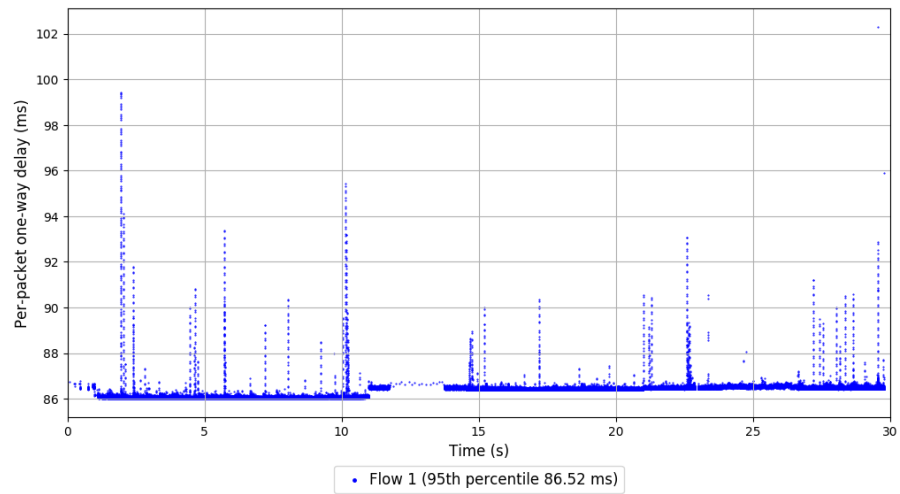
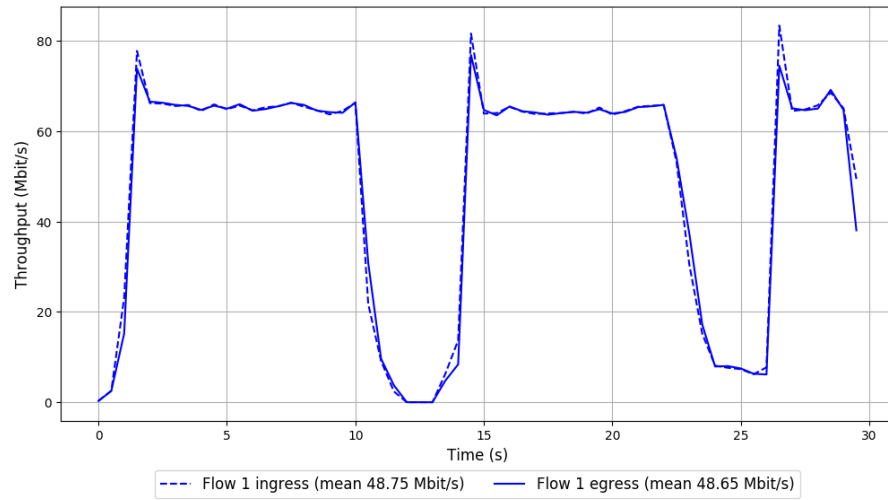
-- Flow 1:

Average throughput: 48.65 Mbit/s

95th percentile per-packet one-way delay: 86.515 ms

Loss rate: 0.79%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-08-16 19:53:25

End at: 2017-08-16 19:53:55

Below is generated by plot.py at 2017-08-16 23:07:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.73 Mbit/s

95th percentile per-packet one-way delay: 86.941 ms

Loss rate: 0.19%

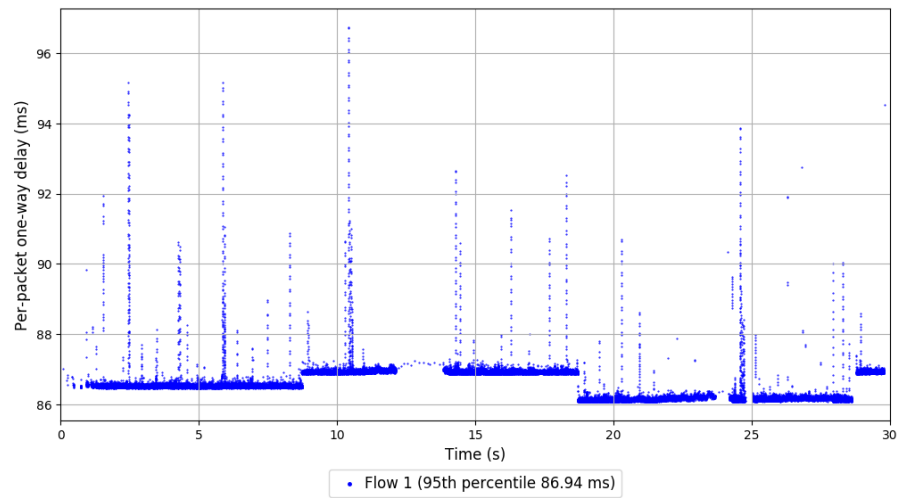
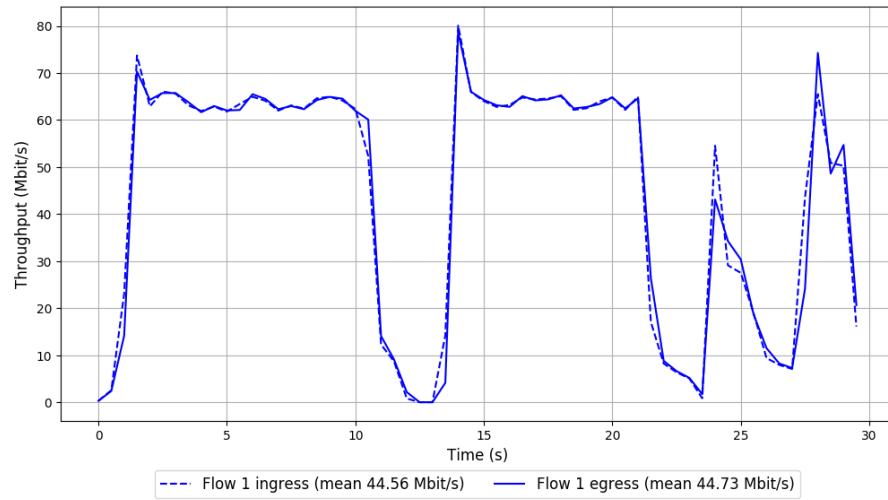
-- Flow 1:

Average throughput: 44.73 Mbit/s

95th percentile per-packet one-way delay: 86.941 ms

Loss rate: 0.19%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-08-16 20:04:49

End at: 2017-08-16 20:05:19

Below is generated by plot.py at 2017-08-16 23:08:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.64 Mbit/s

95th percentile per-packet one-way delay: 86.689 ms

Loss rate: 0.94%

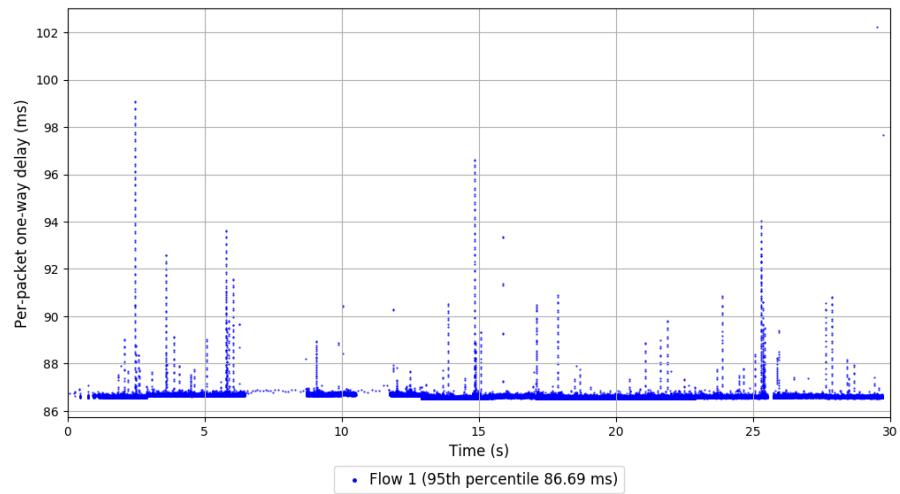
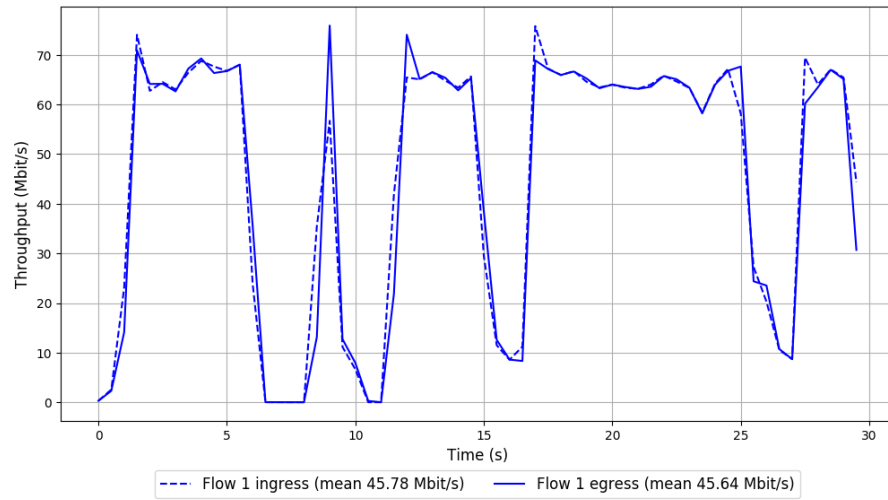
-- Flow 1:

Average throughput: 45.64 Mbit/s

95th percentile per-packet one-way delay: 86.689 ms

Loss rate: 0.94%

Run 9: Report of QUIC Cubic — Data Link

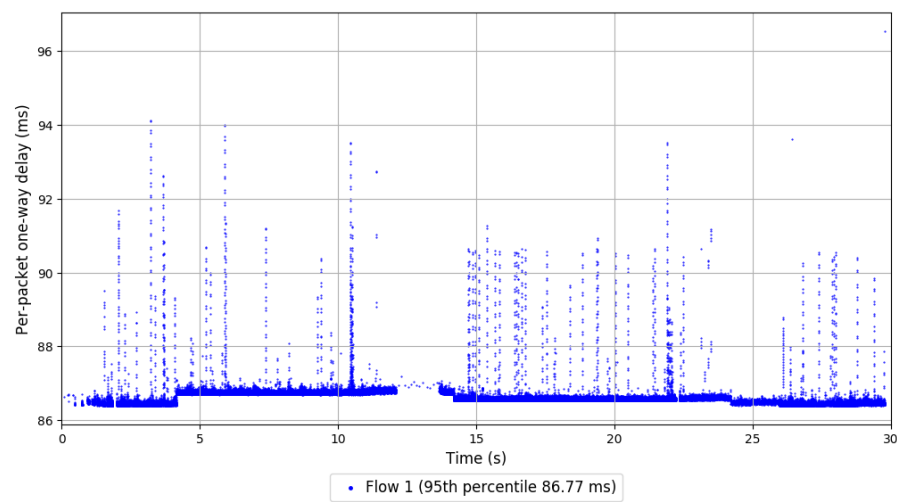
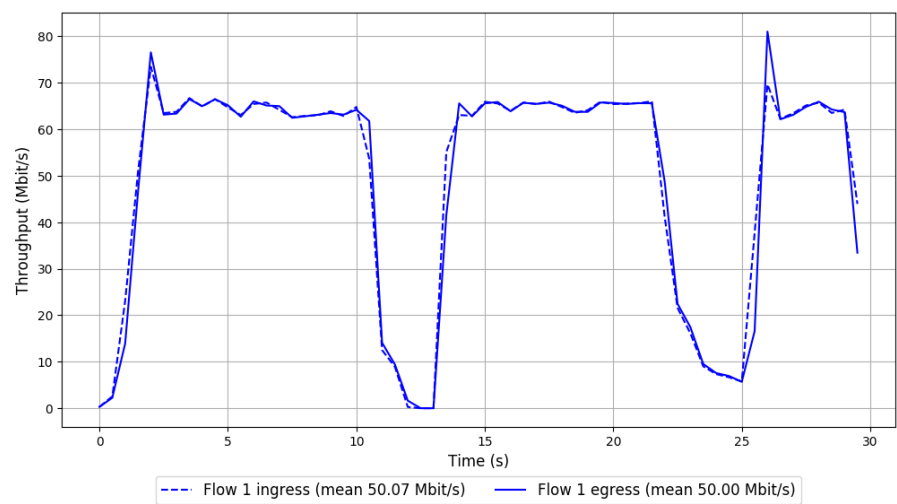


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-08-16 20:15:48
End at: 2017-08-16 20:16:18

# Below is generated by plot.py at 2017-08-16 23:08:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.00 Mbit/s
95th percentile per-packet one-way delay: 86.774 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 50.00 Mbit/s
95th percentile per-packet one-way delay: 86.774 ms
Loss rate: 0.72%
```

Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of Saturator

Start at: 2017-08-16 18:33:35

End at: 2017-08-16 18:34:05

Run 1: Report of Saturator — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of Saturator

Start at: 2017-08-16 18:44:18

End at: 2017-08-16 18:44:48

Below is generated by plot.py at 2017-08-16 23:08:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.67 Mbit/s

95th percentile per-packet one-way delay: 88.158 ms

Loss rate: 15.58%

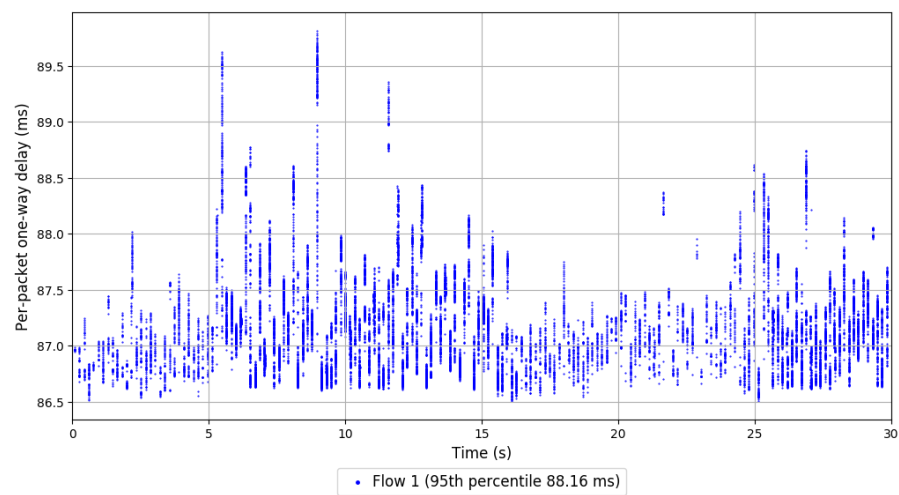
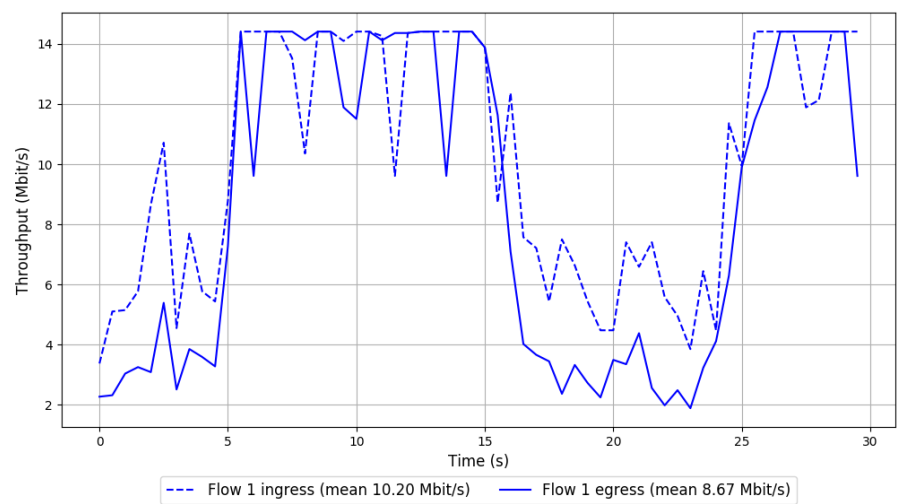
-- Flow 1:

Average throughput: 8.67 Mbit/s

95th percentile per-packet one-way delay: 88.158 ms

Loss rate: 15.58%

Run 2: Report of Saturator — Data Link



Run 3: Statistics of Saturator

Start at: 2017-08-16 18:55:10

End at: 2017-08-16 18:55:40

Below is generated by plot.py at 2017-08-16 23:08:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.65 Mbit/s

95th percentile per-packet one-way delay: 87.361 ms

Loss rate: 0.65%

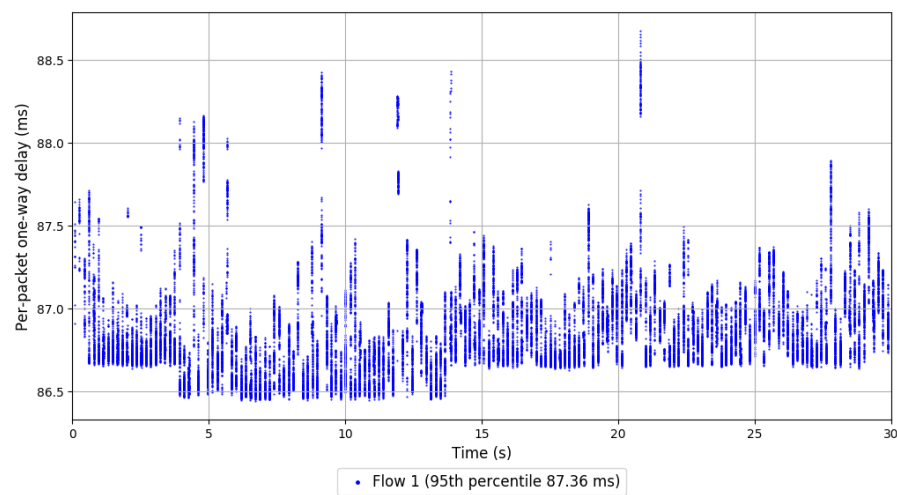
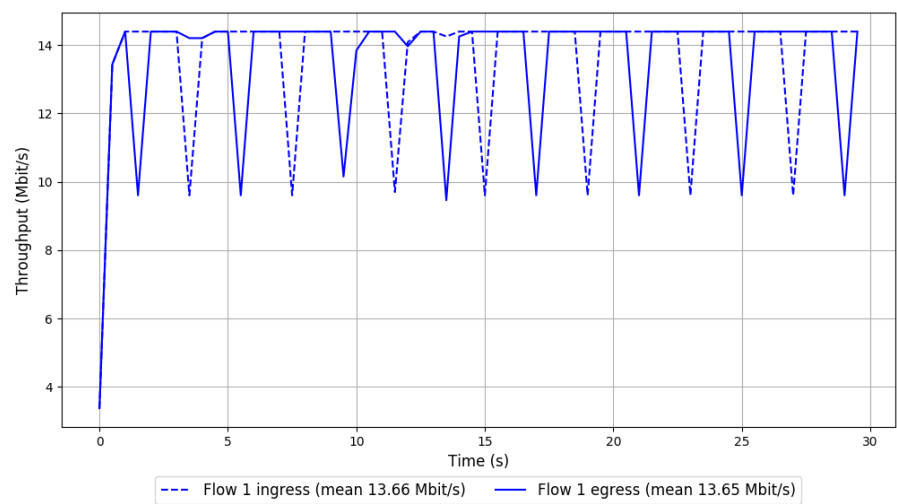
-- Flow 1:

Average throughput: 13.65 Mbit/s

95th percentile per-packet one-way delay: 87.361 ms

Loss rate: 0.65%

Run 3: Report of Saturator — Data Link



Run 4: Statistics of Saturator

Start at: 2017-08-16 19:06:30

End at: 2017-08-16 19:07:00

Below is generated by plot.py at 2017-08-16 23:08:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.54 Mbit/s

95th percentile per-packet one-way delay: 87.742 ms

Loss rate: 0.86%

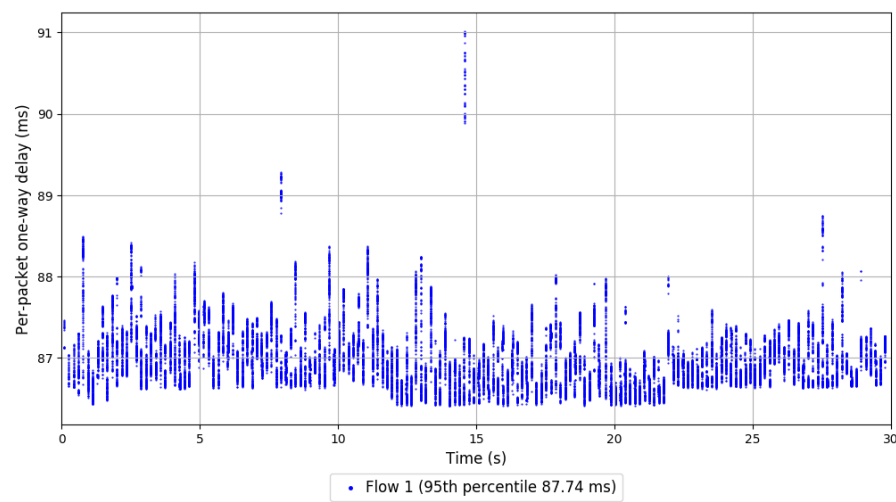
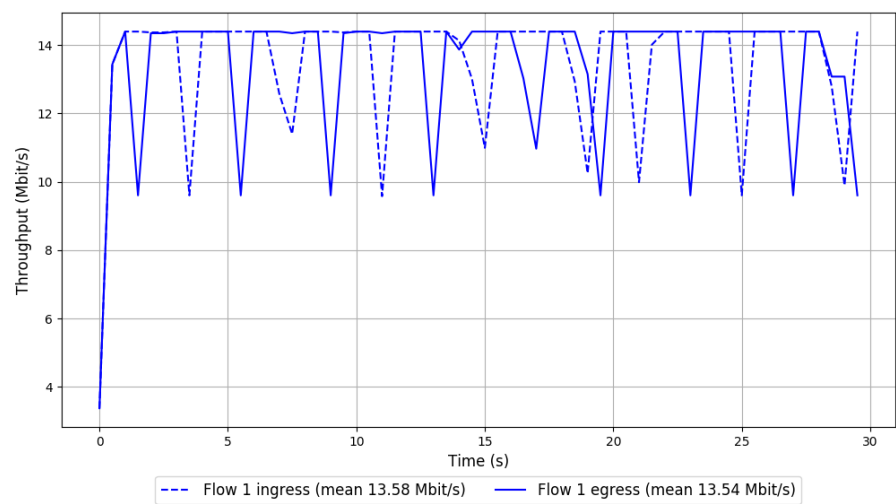
-- Flow 1:

Average throughput: 13.54 Mbit/s

95th percentile per-packet one-way delay: 87.742 ms

Loss rate: 0.86%

Run 4: Report of Saturator — Data Link

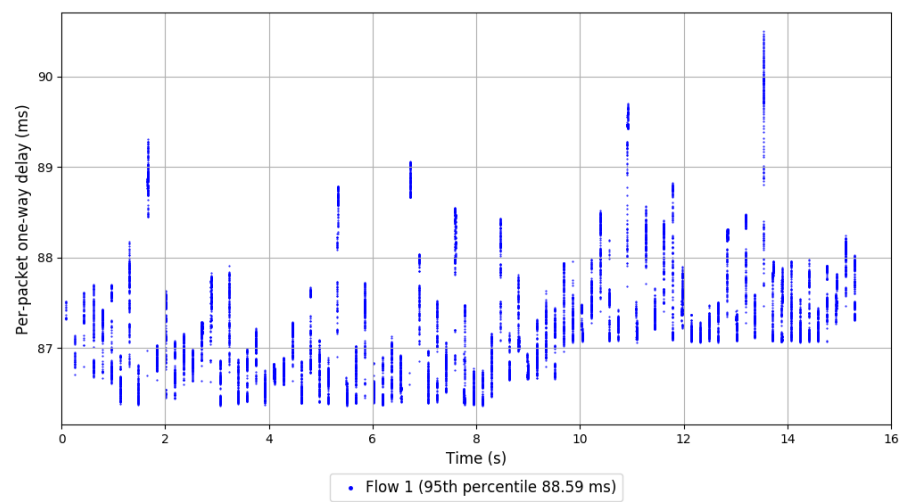
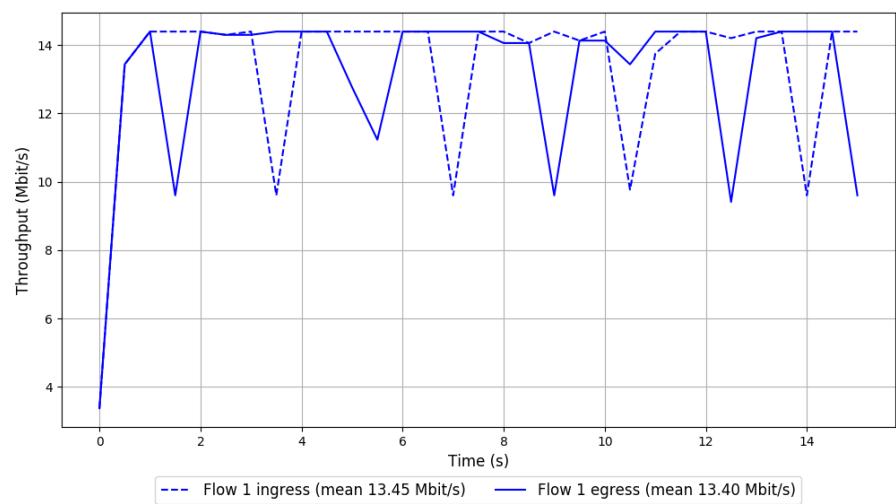


Run 5: Statistics of Saturator

Start at: 2017-08-16 19:17:34

End at: 2017-08-16 19:18:04

Run 5: Report of Saturator — Data Link

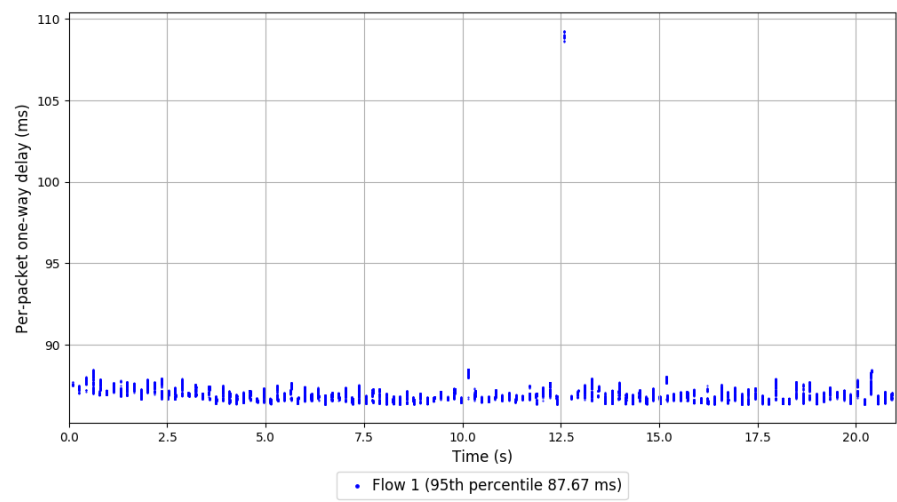
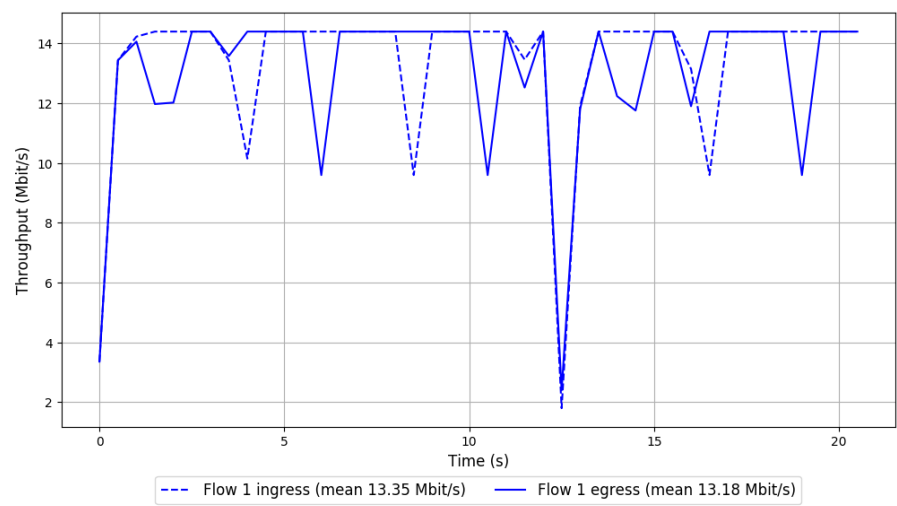


Run 6: Statistics of Saturator

Start at: 2017-08-16 19:28:41

End at: 2017-08-16 19:29:11

Run 6: Report of Saturator — Data Link



Run 7: Statistics of Saturator

Start at: 2017-08-16 19:39:42

End at: 2017-08-16 19:40:12

Below is generated by plot.py at 2017-08-16 23:08:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.46 Mbit/s

95th percentile per-packet one-way delay: 88.263 ms

Loss rate: 0.84%

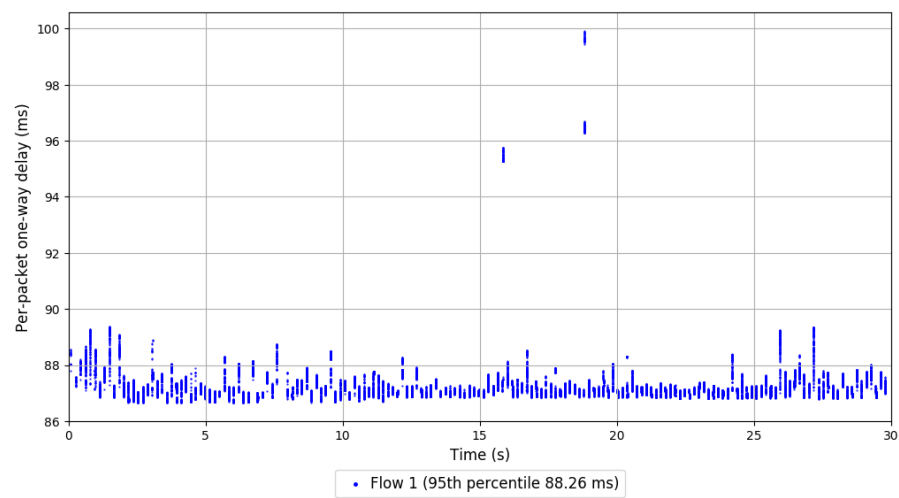
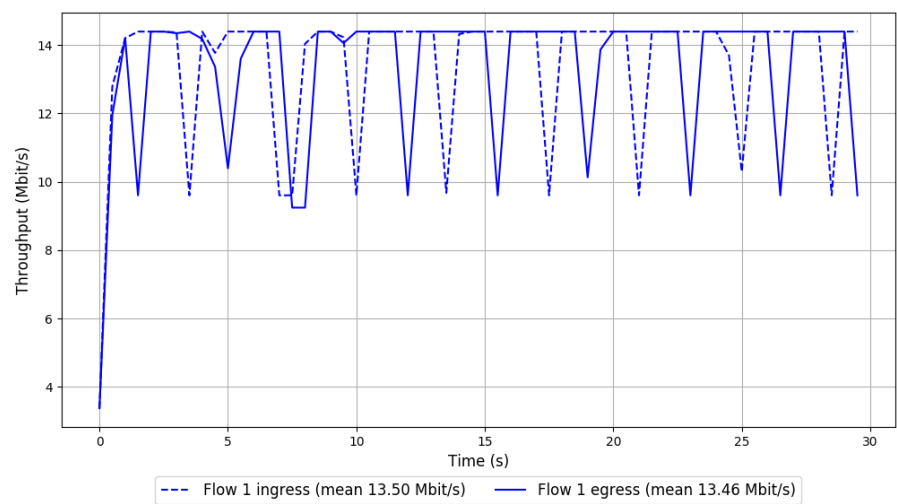
-- Flow 1:

Average throughput: 13.46 Mbit/s

95th percentile per-packet one-way delay: 88.263 ms

Loss rate: 0.84%

Run 7: Report of Saturator — Data Link



Run 8: Statistics of Saturator

Start at: 2017-08-16 19:50:43

End at: 2017-08-16 19:51:13

Below is generated by plot.py at 2017-08-16 23:08:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.55 Mbit/s

95th percentile per-packet one-way delay: 88.466 ms

Loss rate: 0.90%

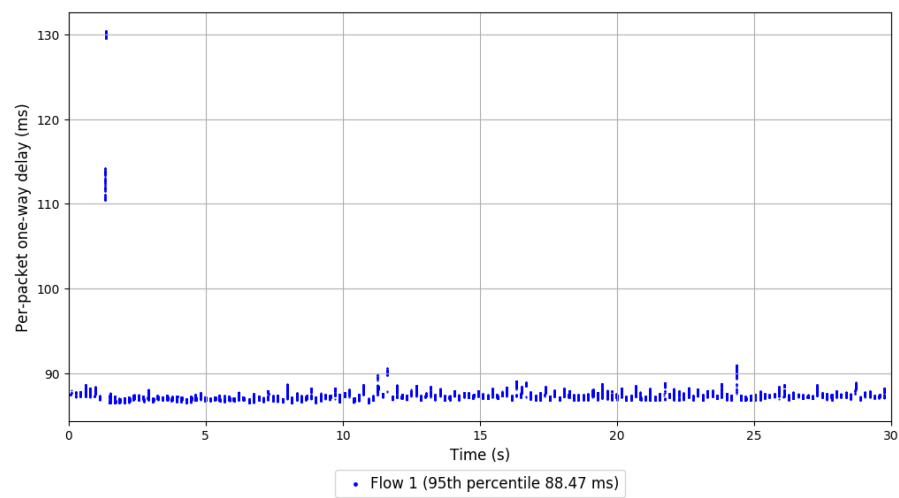
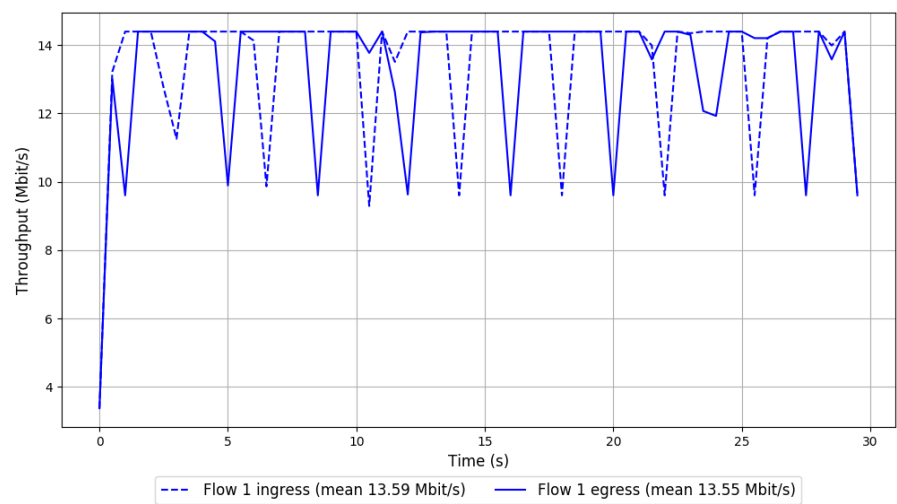
-- Flow 1:

Average throughput: 13.55 Mbit/s

95th percentile per-packet one-way delay: 88.466 ms

Loss rate: 0.90%

Run 8: Report of Saturator — Data Link

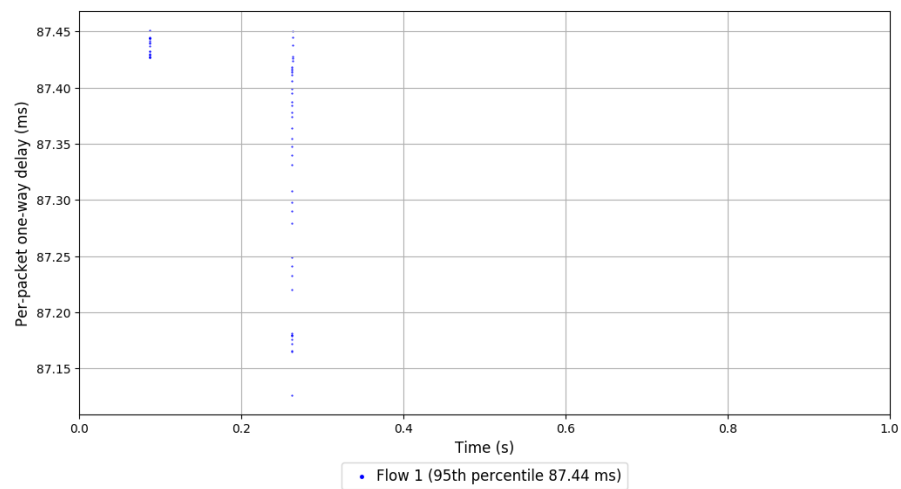
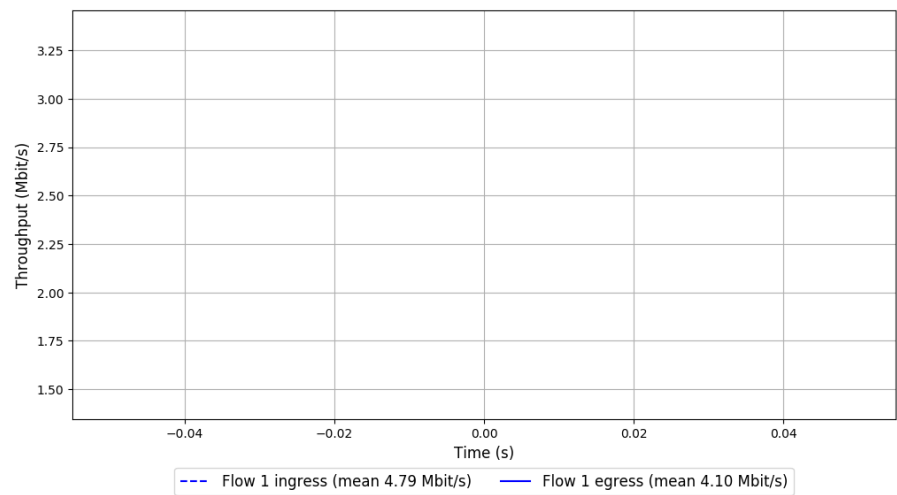


Run 9: Statistics of Saturator

Start at: 2017-08-16 20:01:42

End at: 2017-08-16 20:02:12

Run 9: Report of Saturator — Data Link

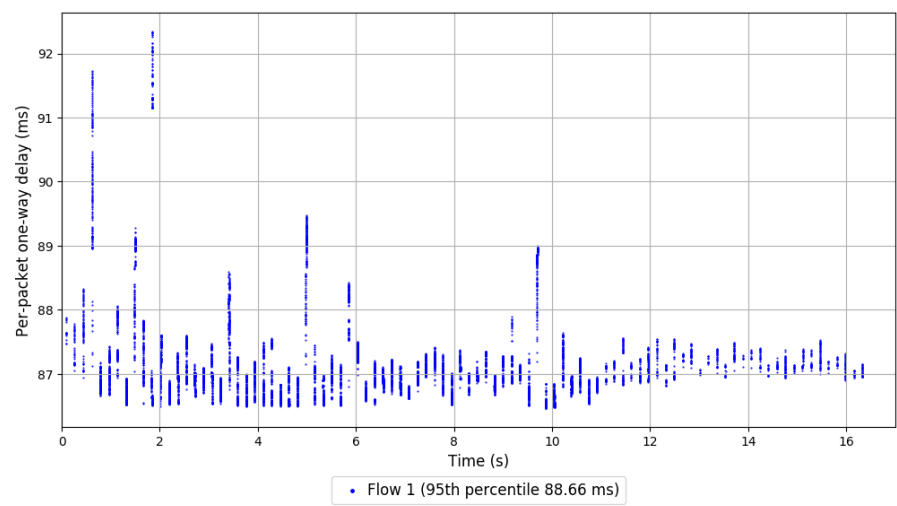
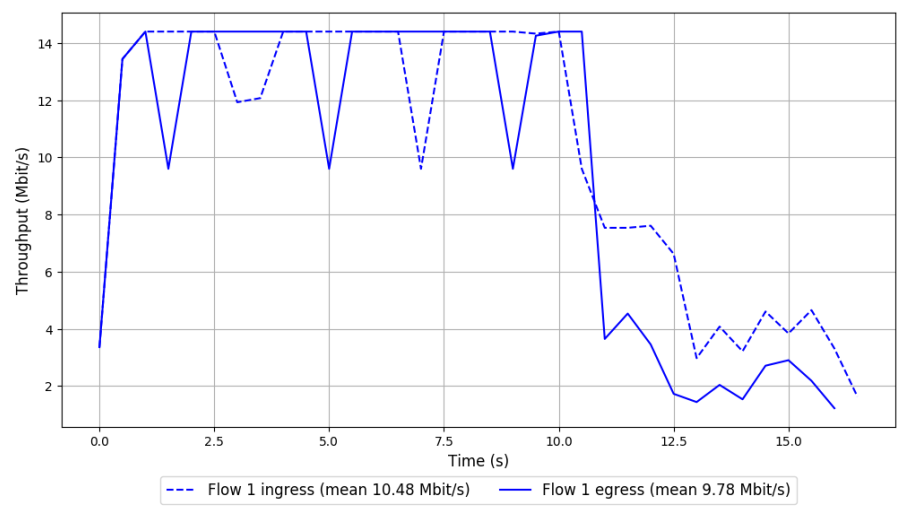


Run 10: Statistics of Saturator

Start at: 2017-08-16 20:13:03

End at: 2017-08-16 20:13:33

Run 10: Report of Saturator — Data Link

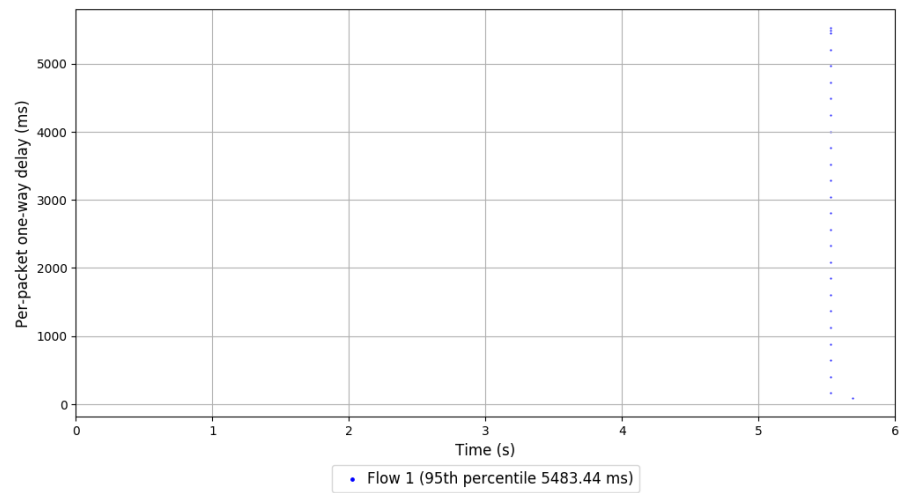
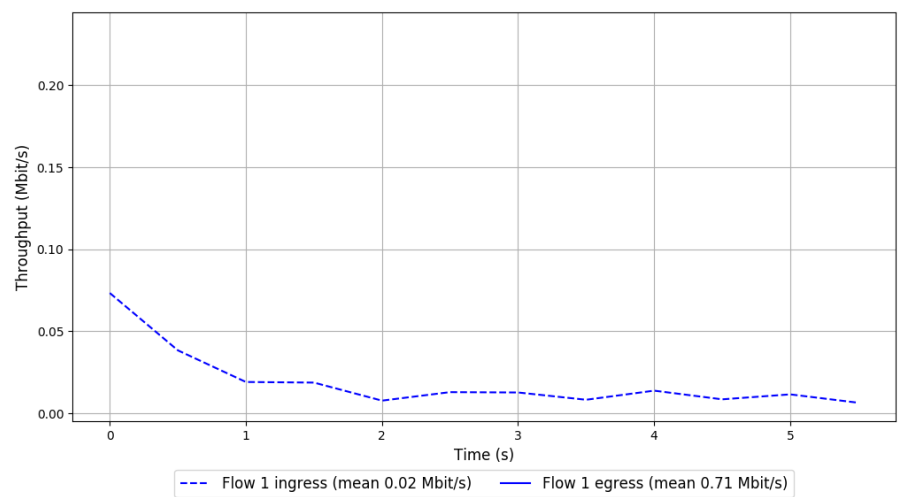


Run 1: Statistics of SReAM

Start at: 2017-08-16 18:34:57

End at: 2017-08-16 18:35:27

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2017-08-16 18:45:43

End at: 2017-08-16 18:46:13

Run 2: Report of SReAM — Data Link

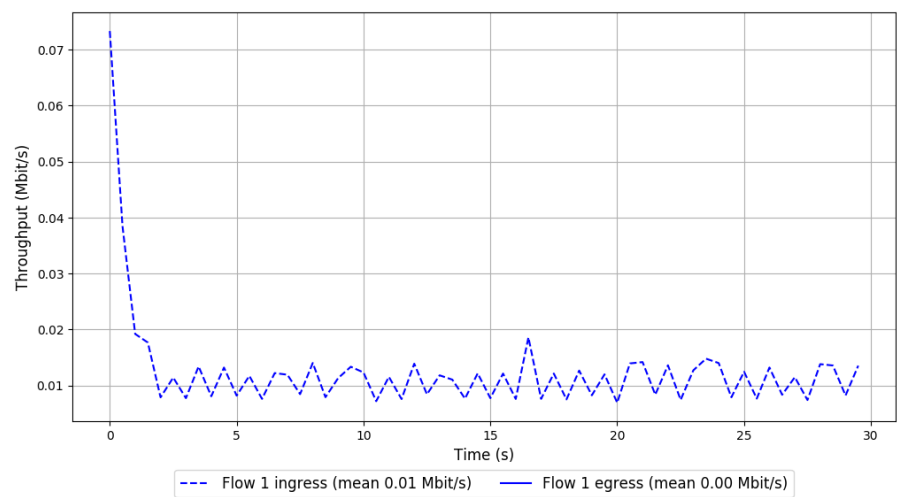


Figure is missing

Run 3: Statistics of SCReAM

Start at: 2017-08-16 18:56:36

End at: 2017-08-16 18:57:06

Below is generated by plot.py at 2017-08-16 23:08:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.881 ms

Loss rate: 0.51%

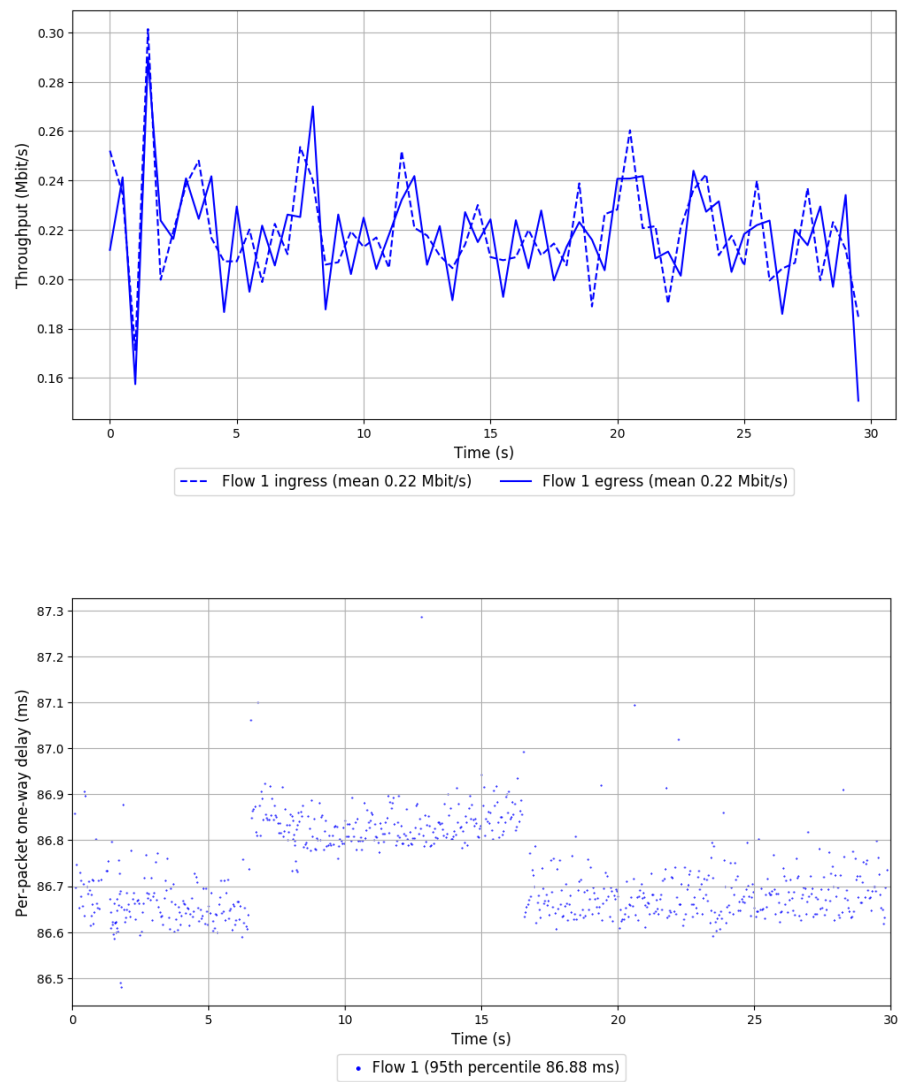
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.881 ms

Loss rate: 0.51%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-08-16 19:07:56

End at: 2017-08-16 19:08:26

Below is generated by plot.py at 2017-08-16 23:08:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 87.089 ms

Loss rate: 0.21%

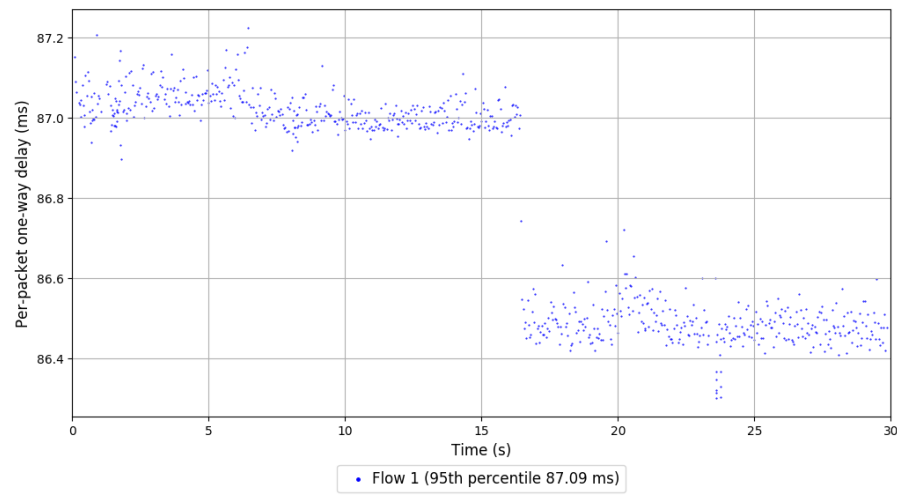
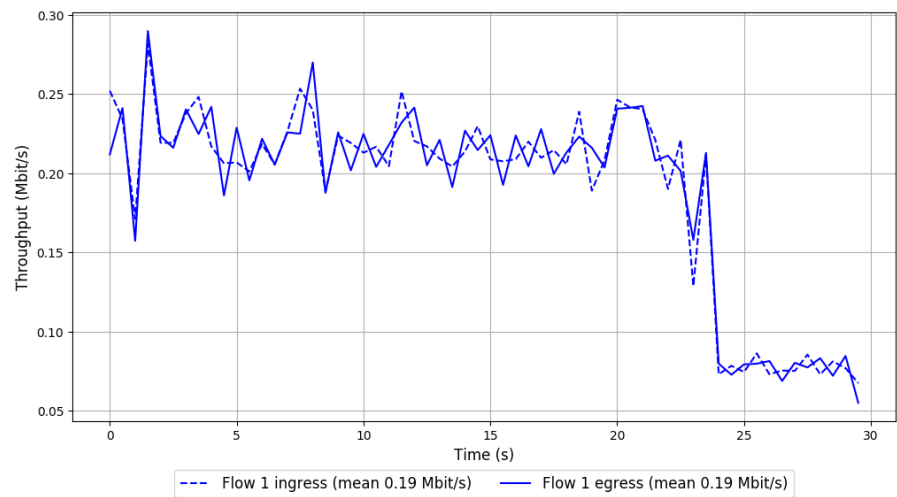
-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 87.089 ms

Loss rate: 0.21%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-08-16 19:19:03

End at: 2017-08-16 19:19:33

Below is generated by plot.py at 2017-08-16 23:08:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.365 ms

Loss rate: 0.51%

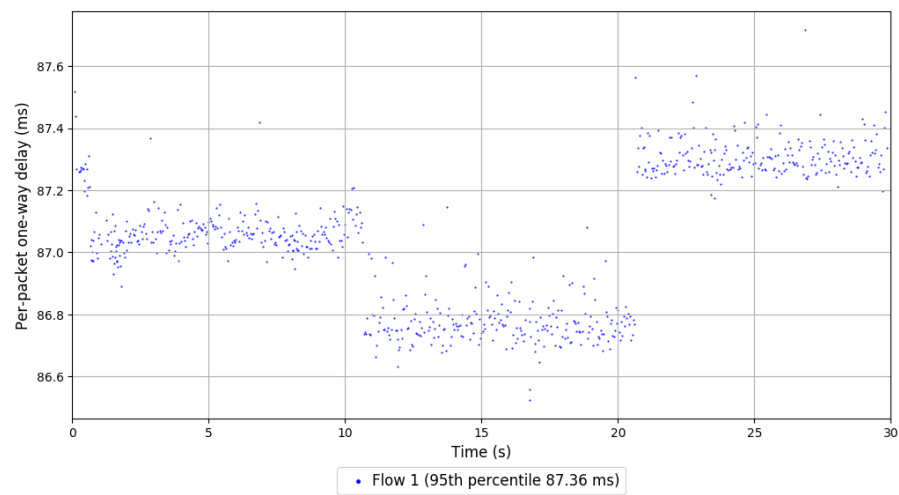
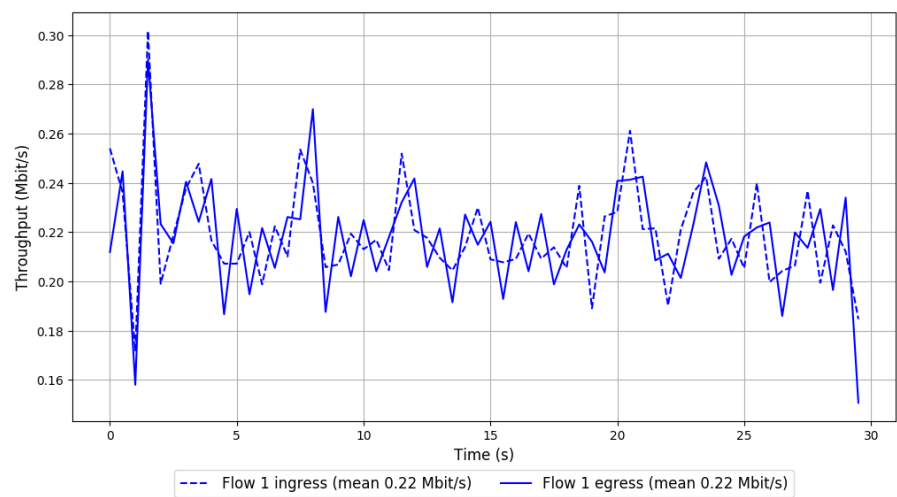
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.365 ms

Loss rate: 0.51%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-08-16 19:30:09

End at: 2017-08-16 19:30:39

Below is generated by plot.py at 2017-08-16 23:08:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.428 ms

Loss rate: 0.51%

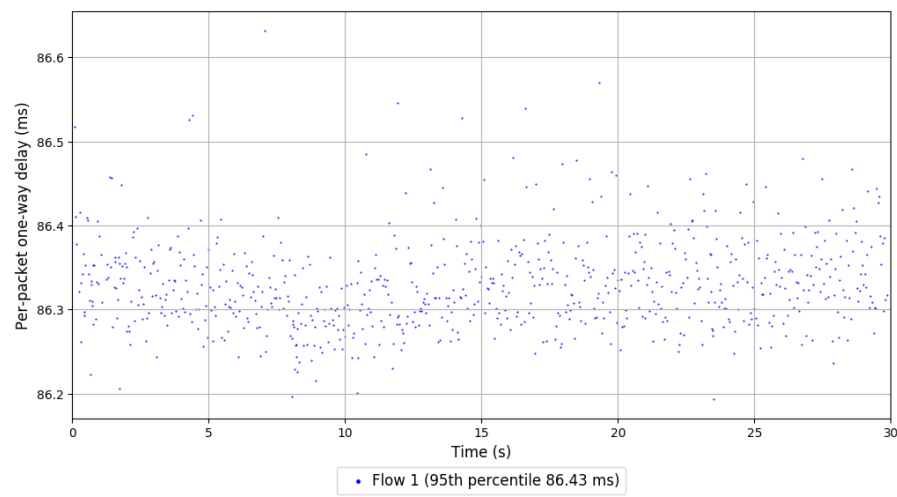
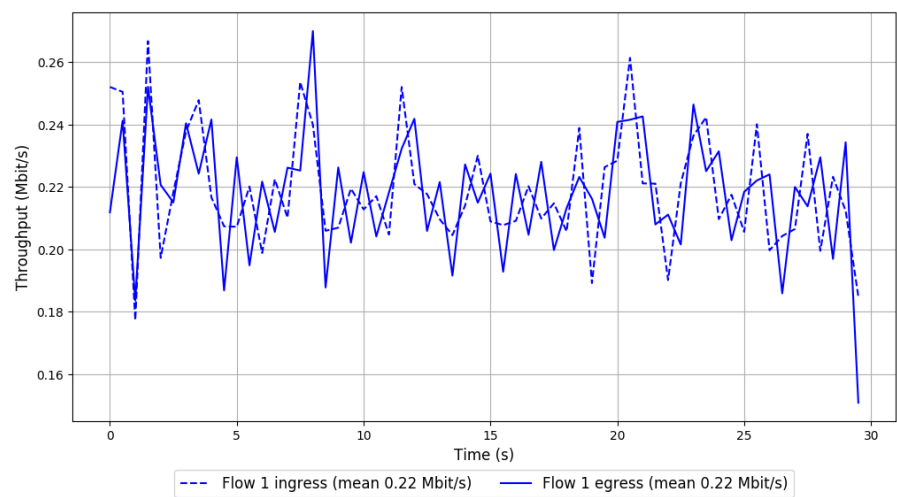
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.428 ms

Loss rate: 0.51%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-08-16 19:41:02

End at: 2017-08-16 19:41:32

Below is generated by plot.py at 2017-08-16 23:08:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.112 ms

Loss rate: 0.61%

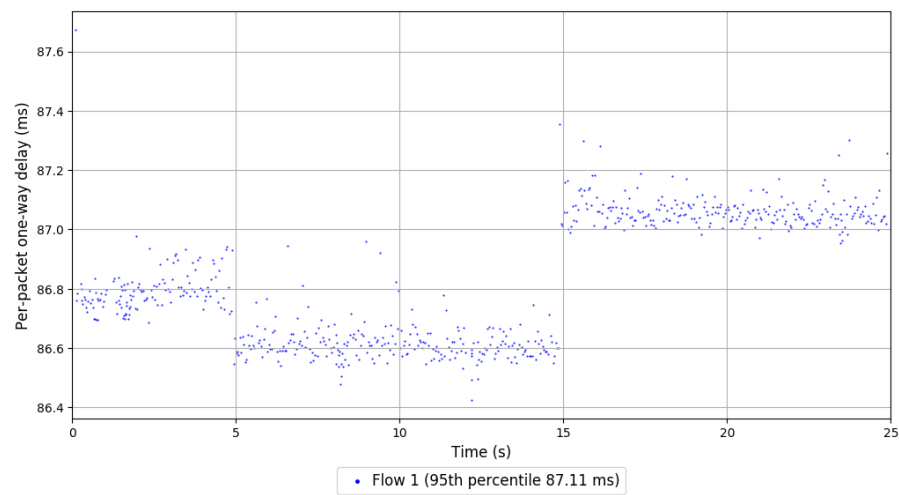
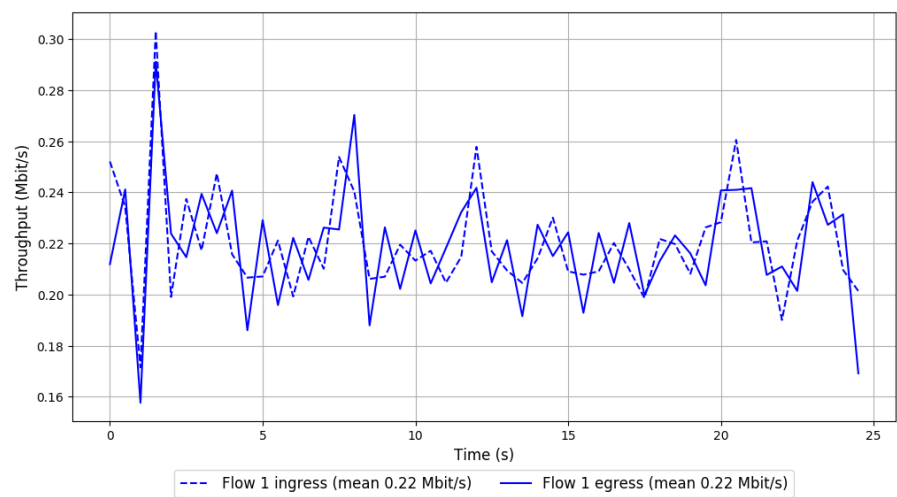
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.112 ms

Loss rate: 0.61%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-08-16 19:52:05

End at: 2017-08-16 19:52:35

Below is generated by plot.py at 2017-08-16 23:08:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.369 ms

Loss rate: 0.51%

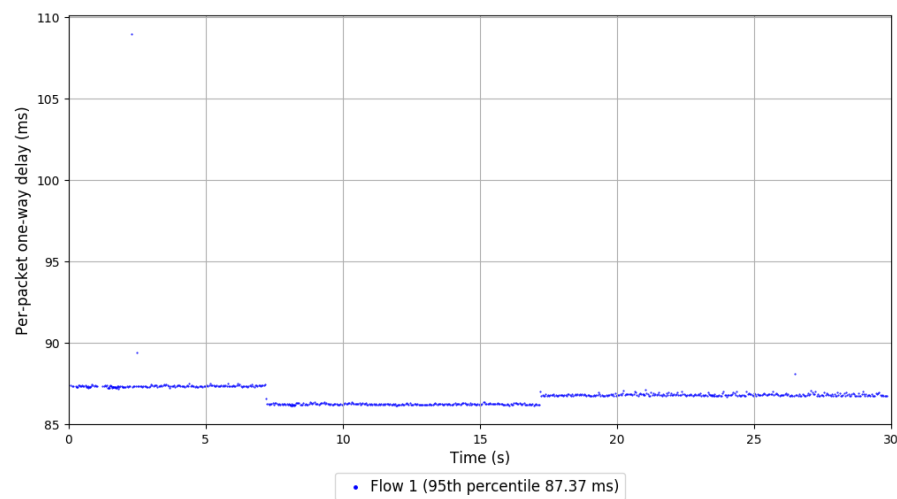
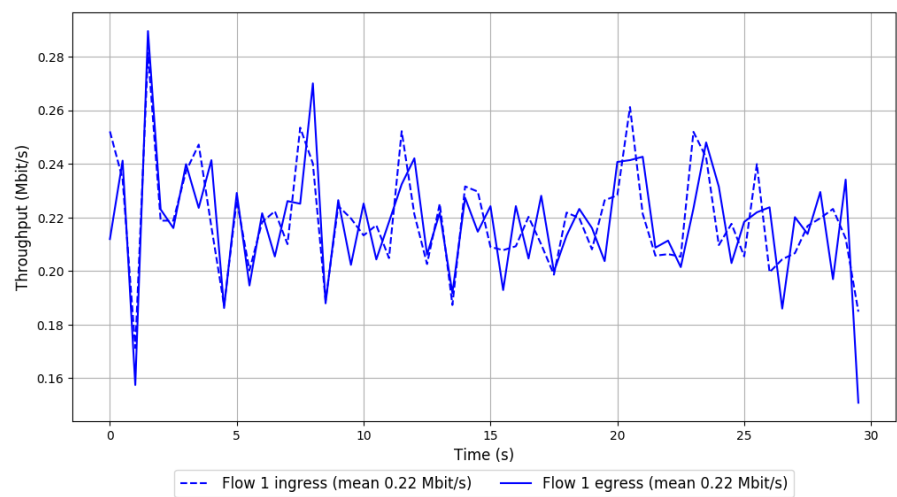
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.369 ms

Loss rate: 0.51%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-08-16 20:03:30

End at: 2017-08-16 20:04:00

Below is generated by plot.py at 2017-08-16 23:08:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 87.160 ms

Loss rate: 0.39%

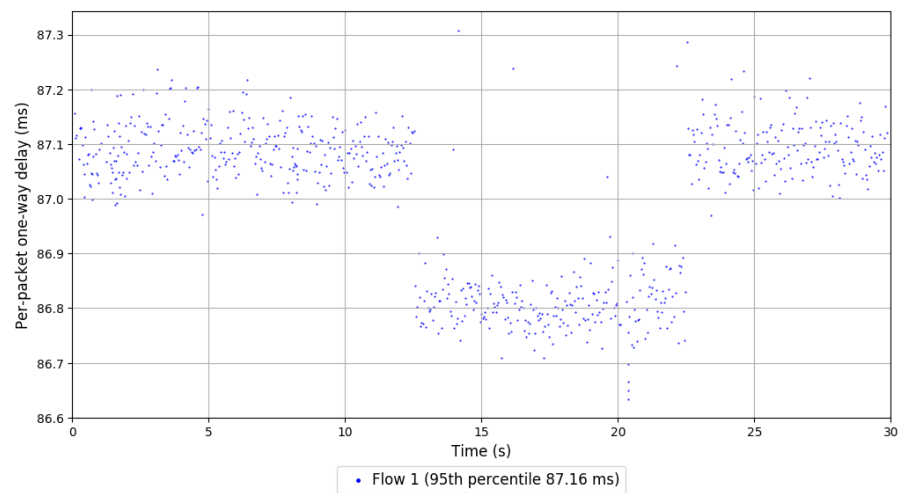
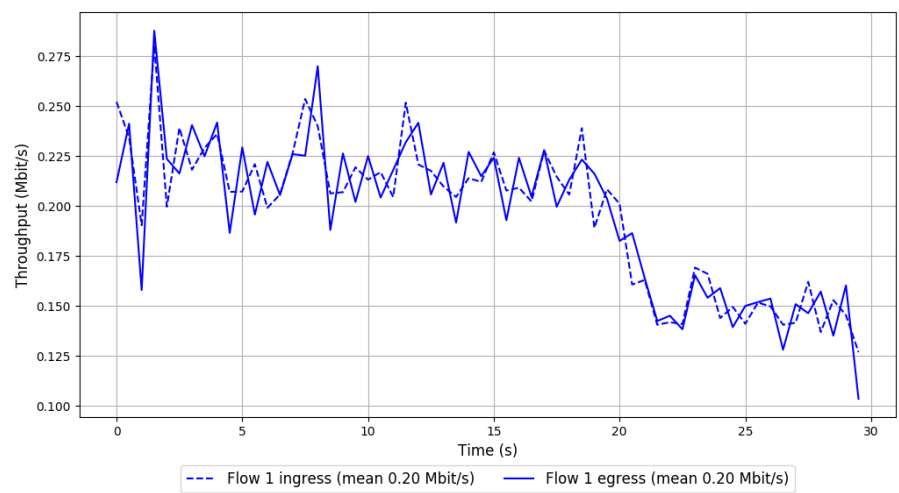
-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 87.160 ms

Loss rate: 0.39%

Run 9: Report of SReAM — Data Link

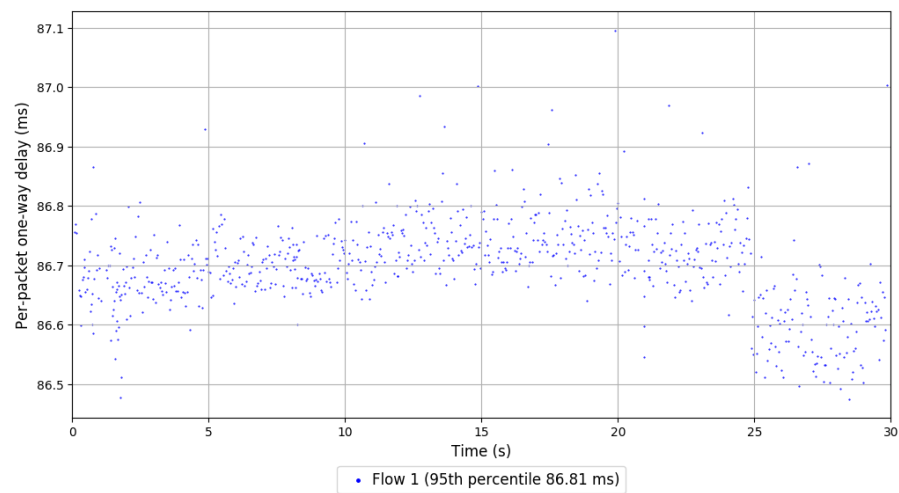
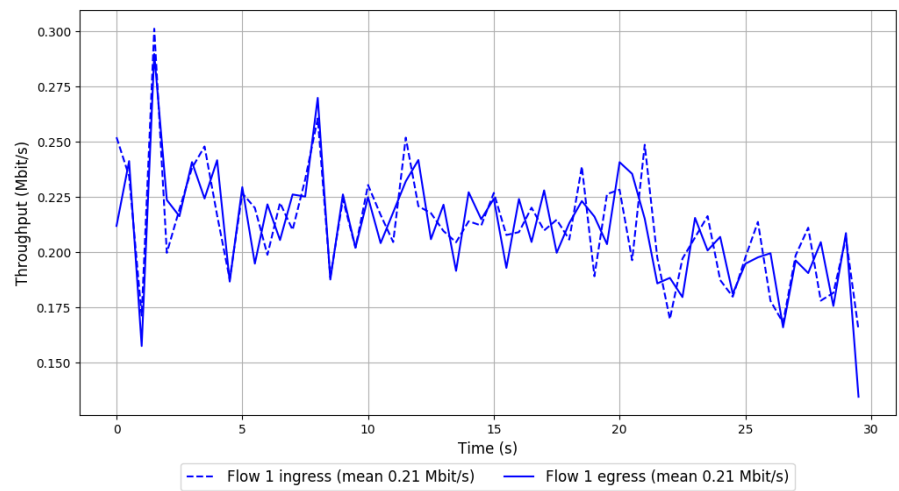


```
Run 10: Statistics of SReAM

Start at: 2017-08-16 20:14:29
End at: 2017-08-16 20:14:59

# Below is generated by plot.py at 2017-08-16 23:08:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 86.808 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 86.808 ms
Loss rate: 0.47%
```

Run 10: Report of SReAM — Data Link

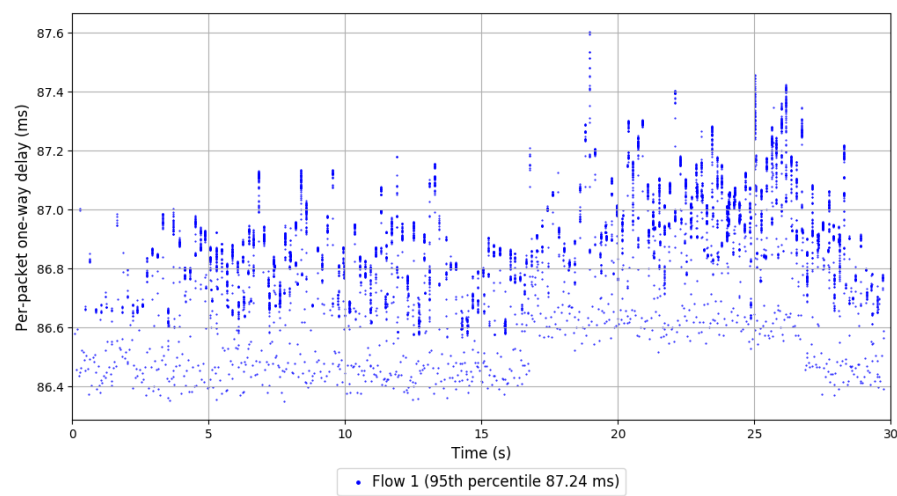
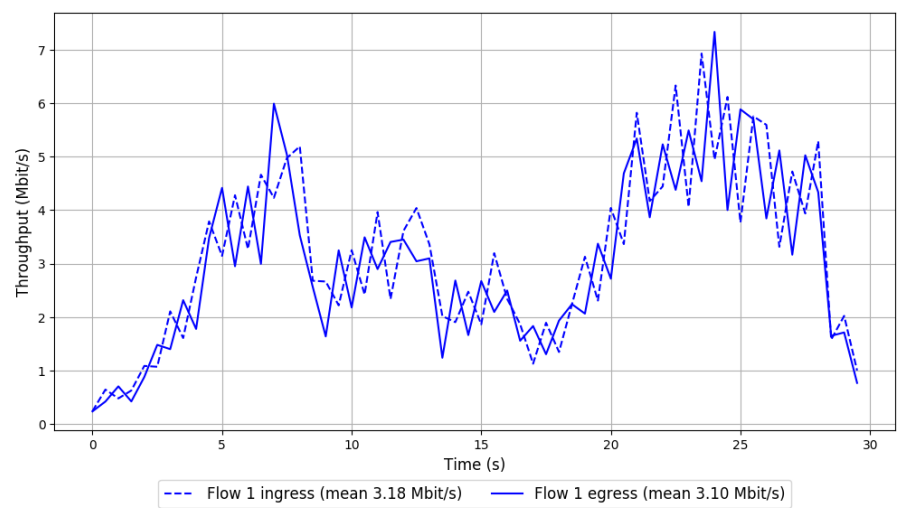


```
Run 1: Statistics of Sprout

Start at: 2017-08-16 18:36:55
End at: 2017-08-16 18:37:25

# Below is generated by plot.py at 2017-08-16 23:08:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.10 Mbit/s
95th percentile per-packet one-way delay: 87.244 ms
Loss rate: 3.25%
-- Flow 1:
Average throughput: 3.10 Mbit/s
95th percentile per-packet one-way delay: 87.244 ms
Loss rate: 3.25%
```


Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-08-16 18:47:43

End at: 2017-08-16 18:48:13

Below is generated by plot.py at 2017-08-16 23:08:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 87.214 ms

Loss rate: 4.20%

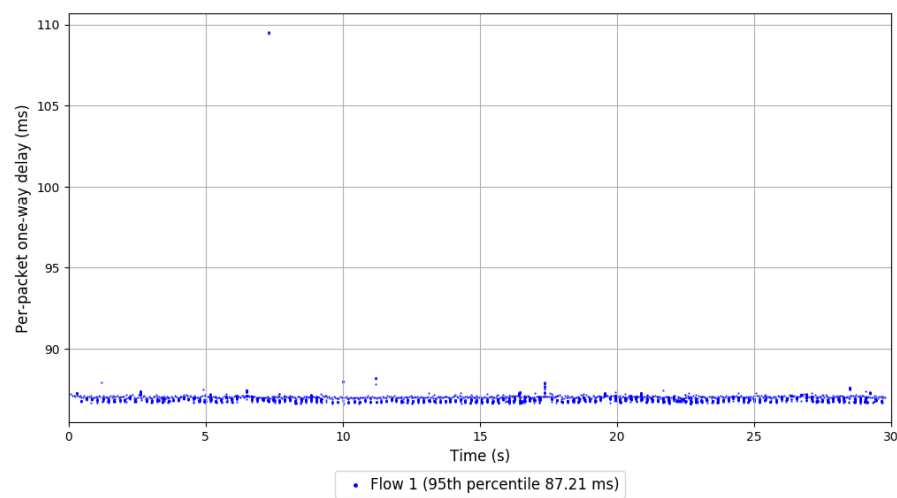
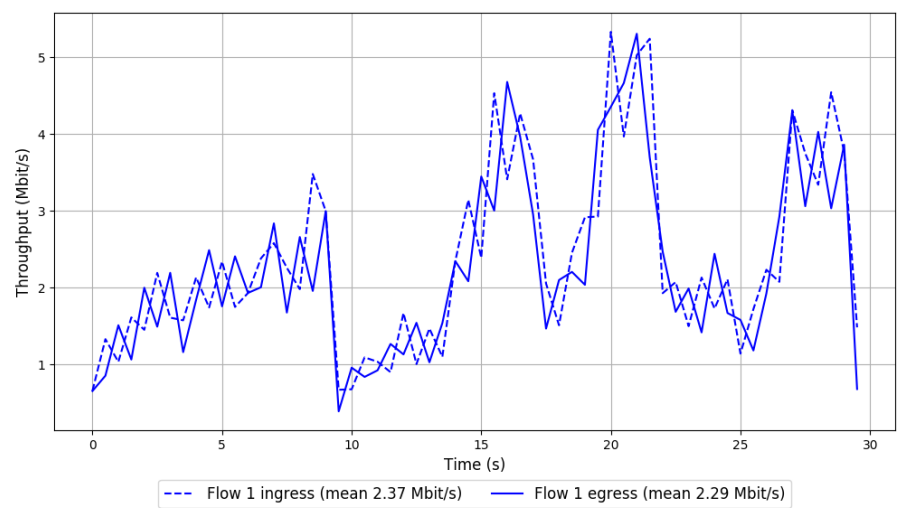
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 87.214 ms

Loss rate: 4.20%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-08-16 18:58:37

End at: 2017-08-16 18:59:07

Below is generated by plot.py at 2017-08-16 23:08:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.38 Mbit/s

95th percentile per-packet one-way delay: 87.437 ms

Loss rate: 3.17%

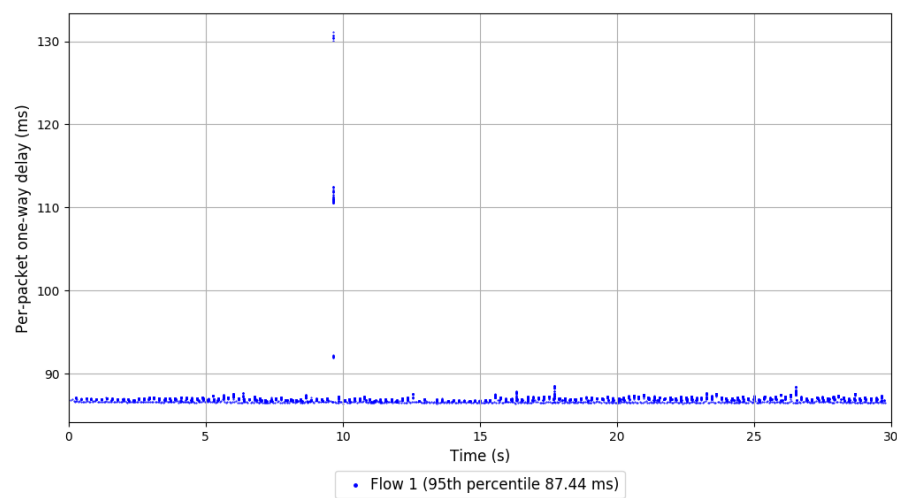
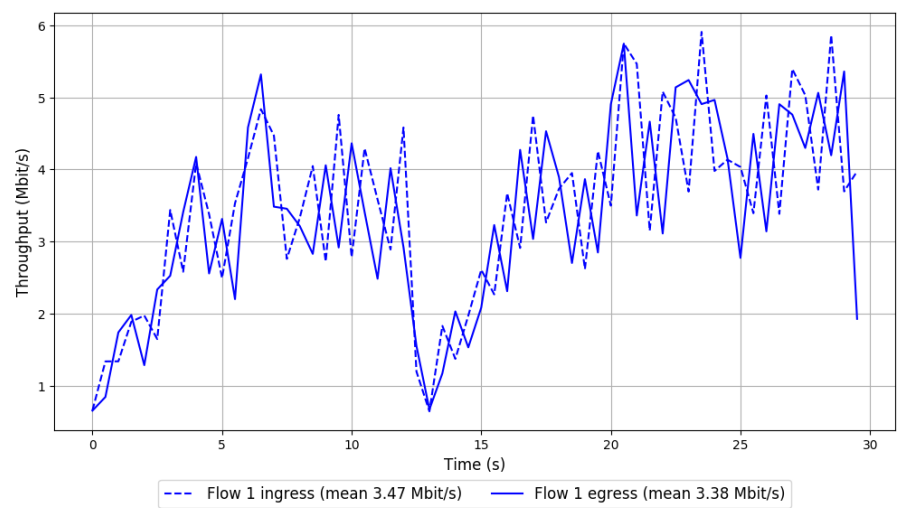
-- Flow 1:

Average throughput: 3.38 Mbit/s

95th percentile per-packet one-way delay: 87.437 ms

Loss rate: 3.17%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-08-16 19:09:57

End at: 2017-08-16 19:10:27

Below is generated by plot.py at 2017-08-16 23:08:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.86 Mbit/s

95th percentile per-packet one-way delay: 87.690 ms

Loss rate: 3.94%

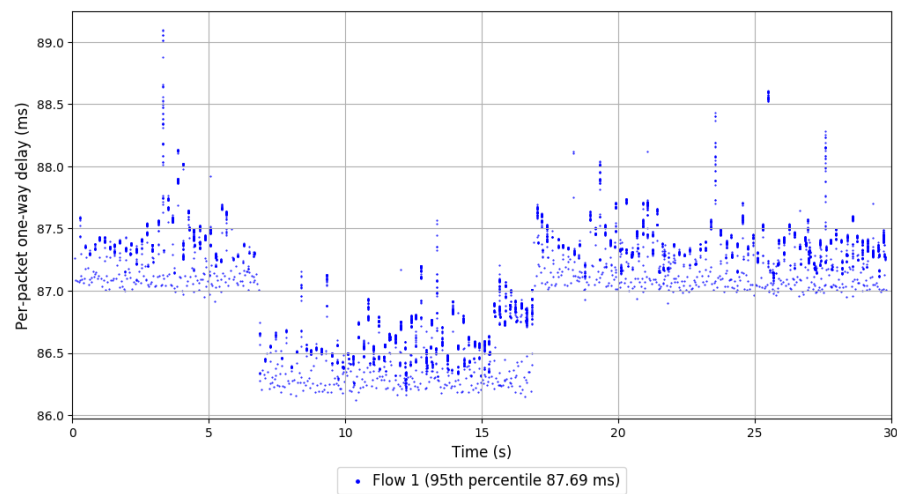
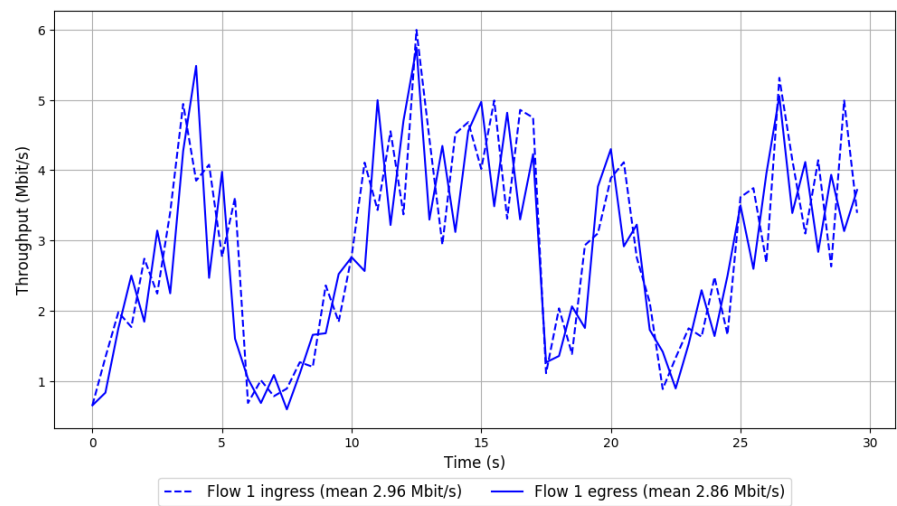
-- Flow 1:

Average throughput: 2.86 Mbit/s

95th percentile per-packet one-way delay: 87.690 ms

Loss rate: 3.94%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-08-16 19:21:05

End at: 2017-08-16 19:21:35

Below is generated by plot.py at 2017-08-16 23:08:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.89 Mbit/s

95th percentile per-packet one-way delay: 87.415 ms

Loss rate: 1.08%

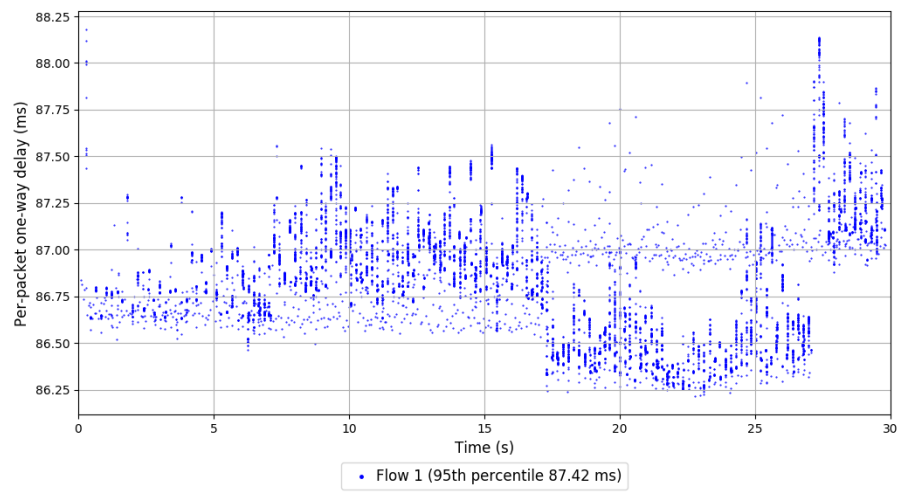
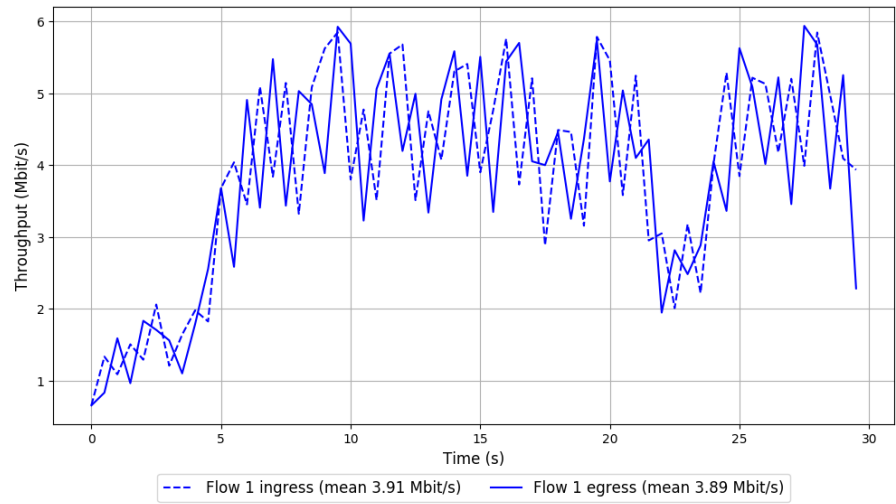
-- Flow 1:

Average throughput: 3.89 Mbit/s

95th percentile per-packet one-way delay: 87.415 ms

Loss rate: 1.08%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-08-16 19:32:12

End at: 2017-08-16 19:32:42

Below is generated by plot.py at 2017-08-16 23:08:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.09 Mbit/s

95th percentile per-packet one-way delay: 87.107 ms

Loss rate: 3.17%

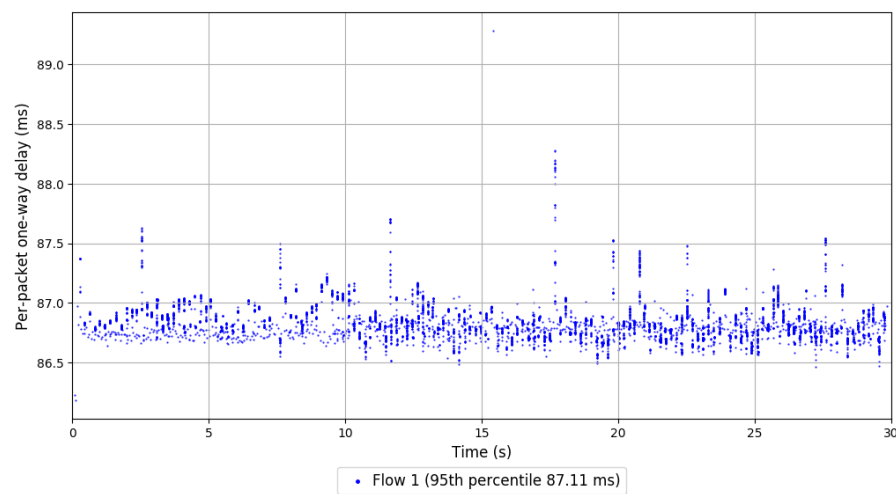
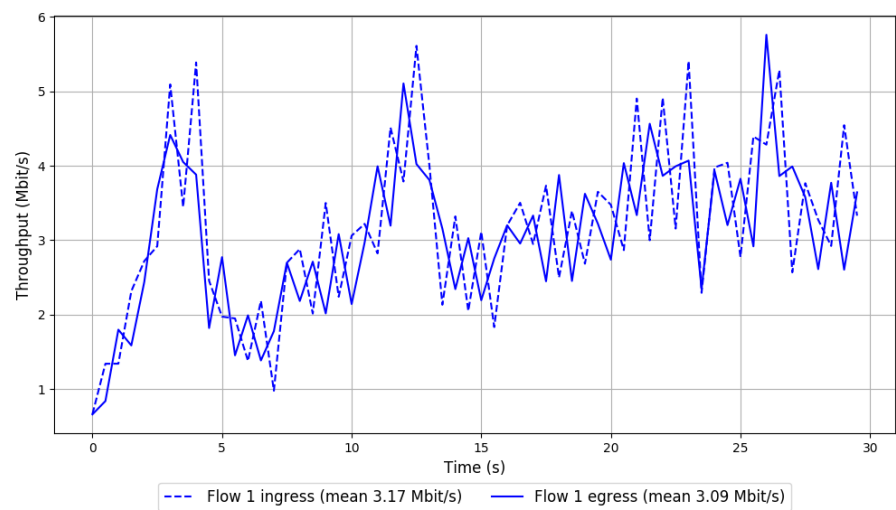
-- Flow 1:

Average throughput: 3.09 Mbit/s

95th percentile per-packet one-way delay: 87.107 ms

Loss rate: 3.17%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-08-16 19:43:04

End at: 2017-08-16 19:43:34

Below is generated by plot.py at 2017-08-16 23:08:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.12 Mbit/s

95th percentile per-packet one-way delay: 87.646 ms

Loss rate: 2.90%

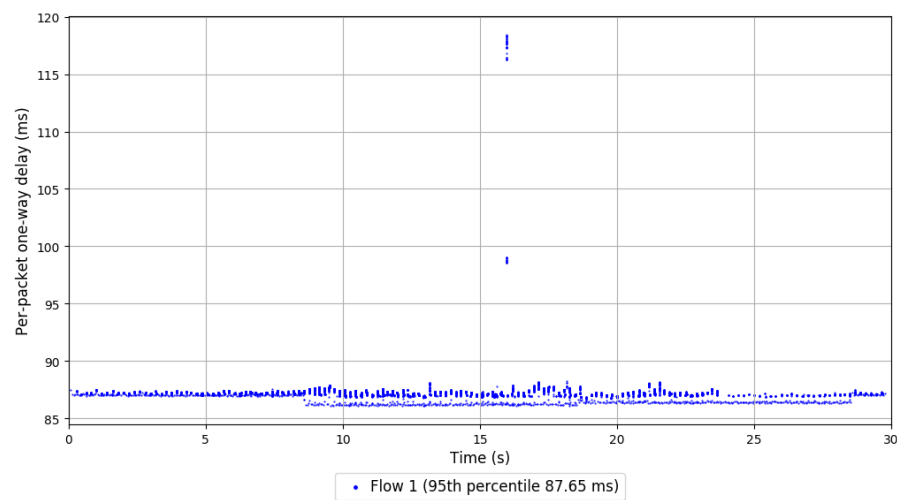
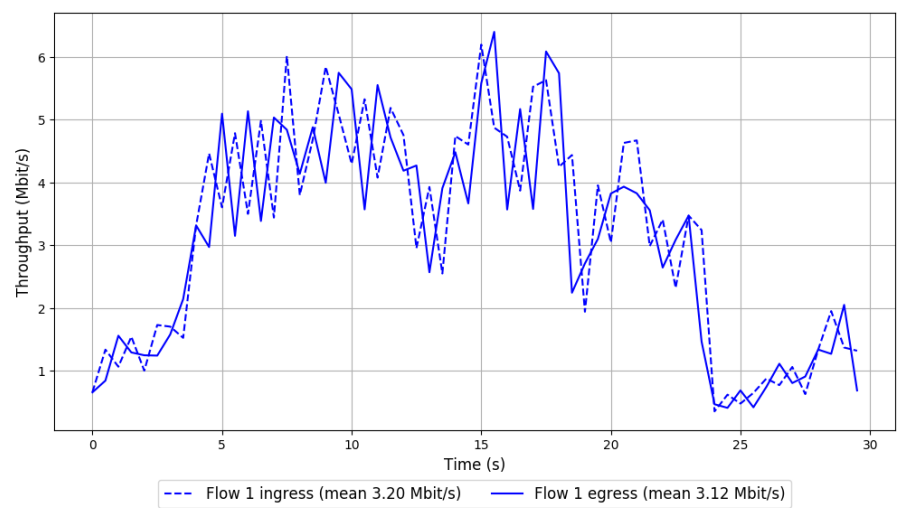
-- Flow 1:

Average throughput: 3.12 Mbit/s

95th percentile per-packet one-way delay: 87.646 ms

Loss rate: 2.90%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-08-16 19:54:07

End at: 2017-08-16 19:54:37

Below is generated by plot.py at 2017-08-16 23:08:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.06 Mbit/s

95th percentile per-packet one-way delay: 87.408 ms

Loss rate: 3.41%

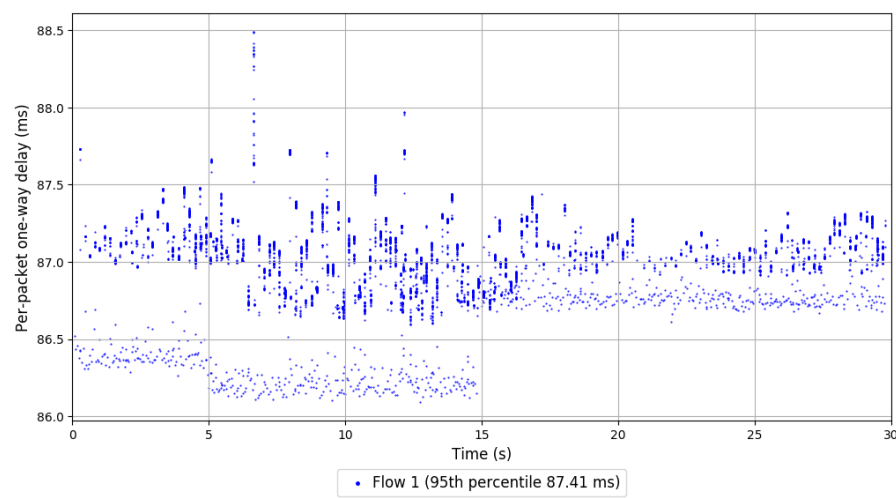
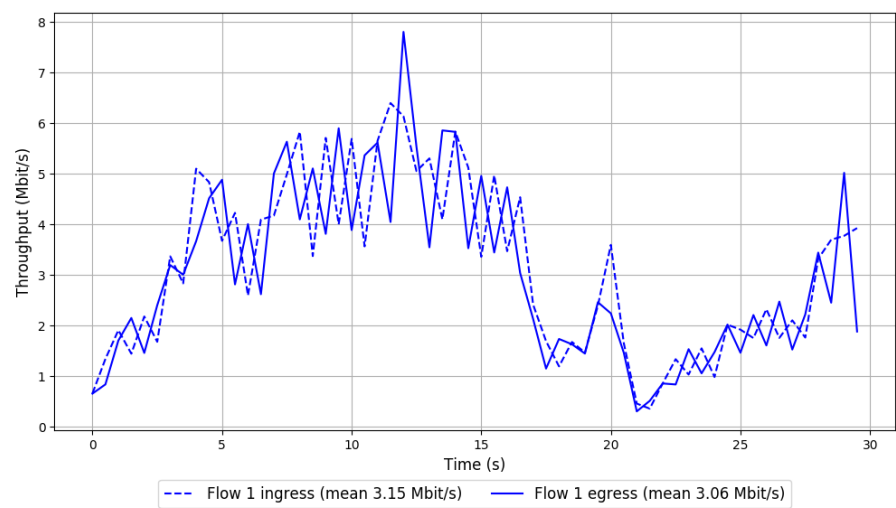
-- Flow 1:

Average throughput: 3.06 Mbit/s

95th percentile per-packet one-way delay: 87.408 ms

Loss rate: 3.41%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-08-16 20:05:32

End at: 2017-08-16 20:06:02

Below is generated by plot.py at 2017-08-16 23:08:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 87.321 ms

Loss rate: 4.20%

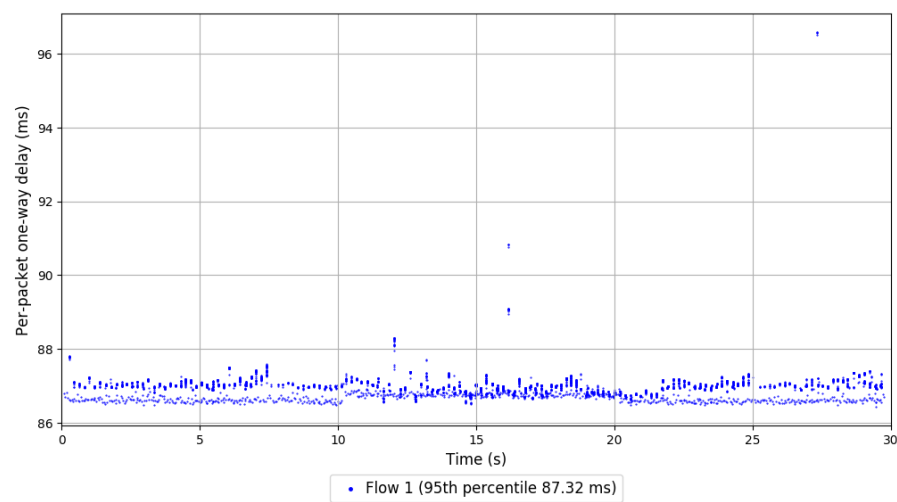
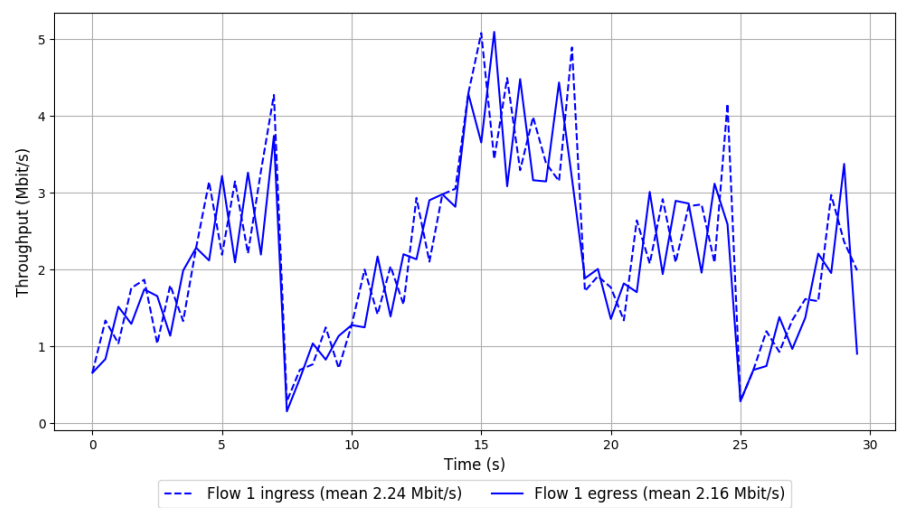
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 87.321 ms

Loss rate: 4.20%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-08-16 20:16:31

End at: 2017-08-16 20:17:01

Below is generated by plot.py at 2017-08-16 23:08:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.79 Mbit/s

95th percentile per-packet one-way delay: 87.548 ms

Loss rate: 4.24%

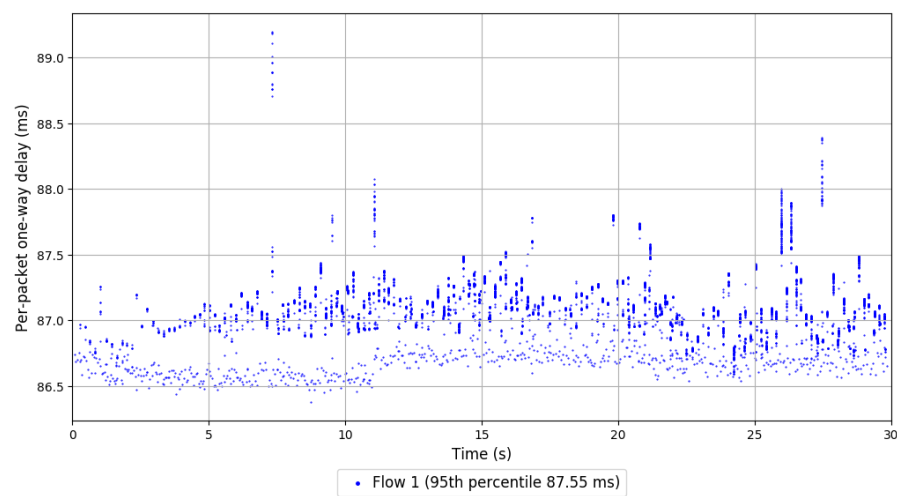
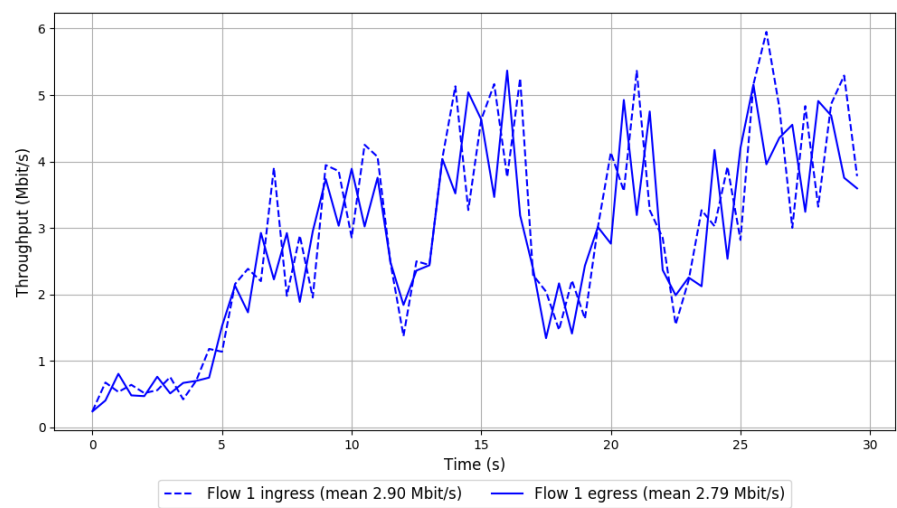
-- Flow 1:

Average throughput: 2.79 Mbit/s

95th percentile per-packet one-way delay: 87.548 ms

Loss rate: 4.24%

Run 10: Report of Sprout — Data Link

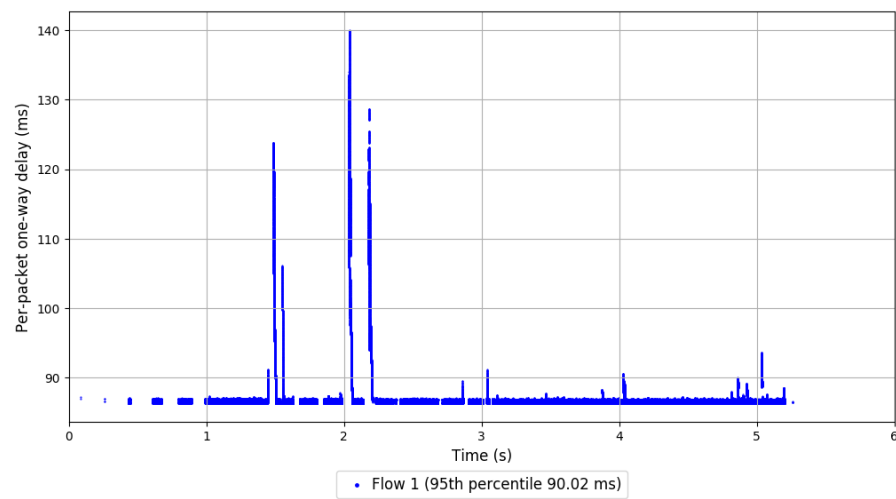
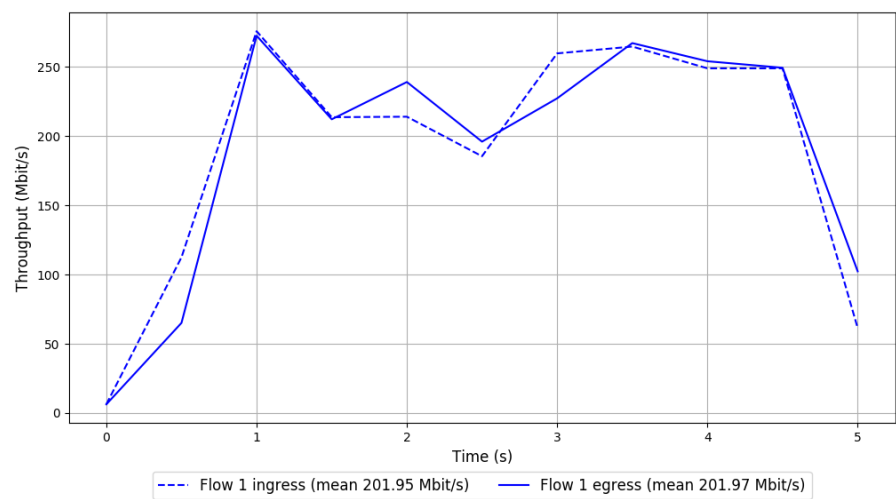


Run 1: Statistics of TaoVA-100x

Start at: 2017-08-16 18:34:14

End at: 2017-08-16 18:34:44

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

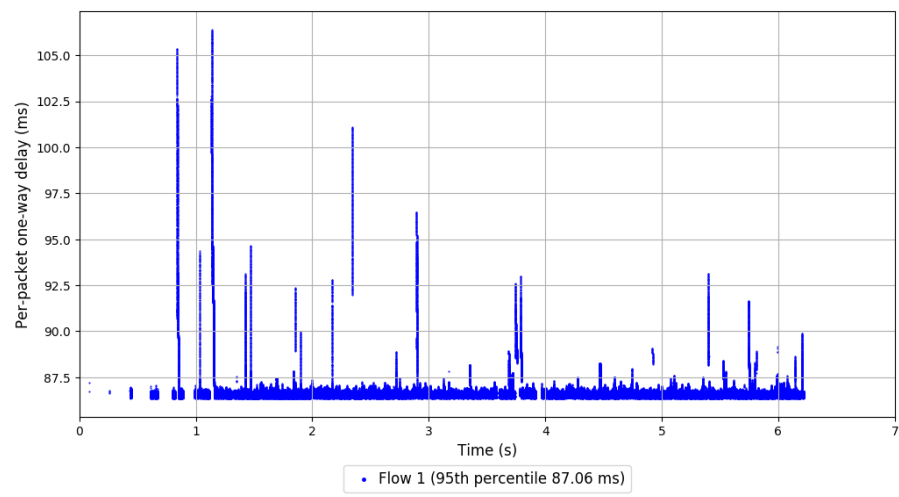
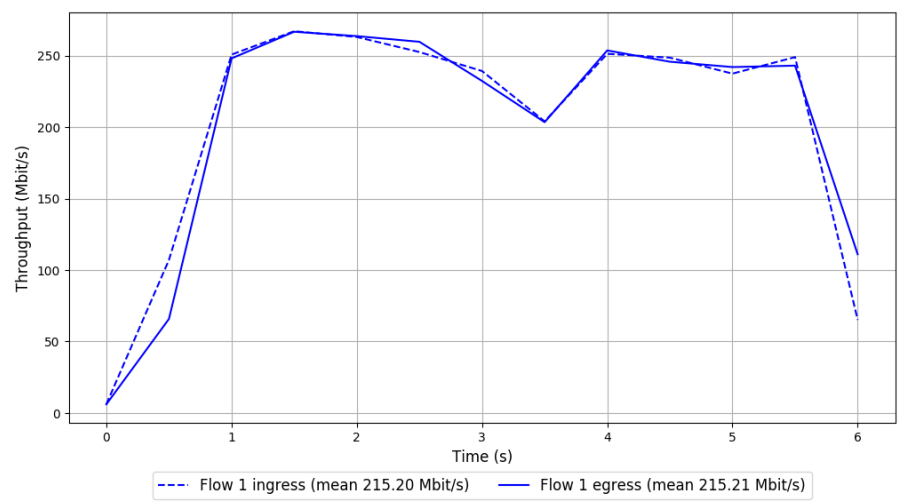


Run 2: Statistics of TaoVA-100x

Start at: 2017-08-16 18:44:59

End at: 2017-08-16 18:45:29

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

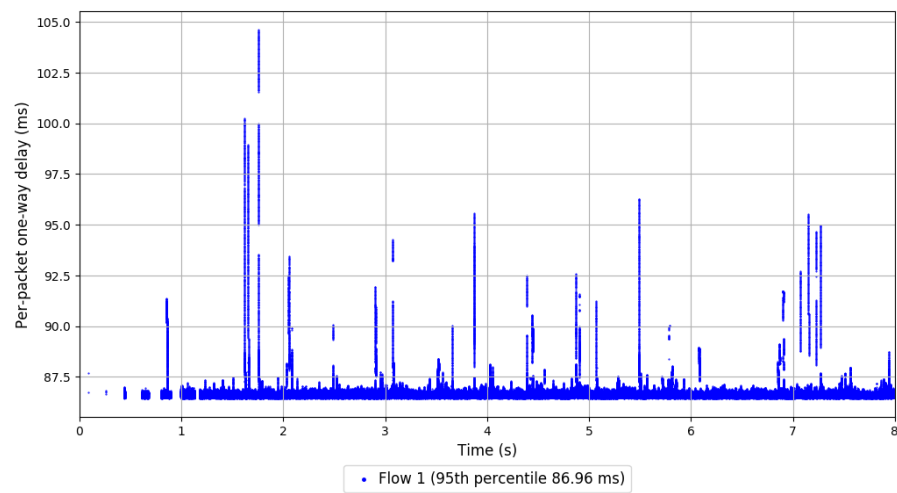
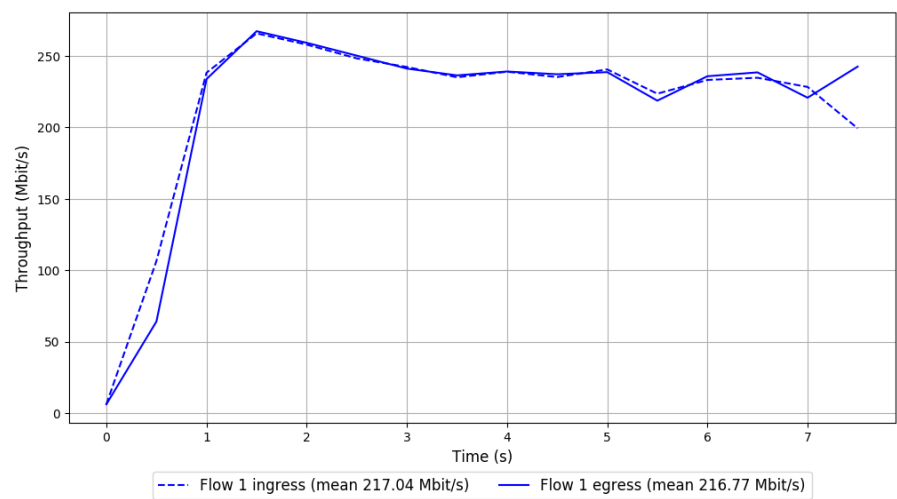


Run 3: Statistics of TaoVA-100x

Start at: 2017-08-16 18:55:50

End at: 2017-08-16 18:56:20

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

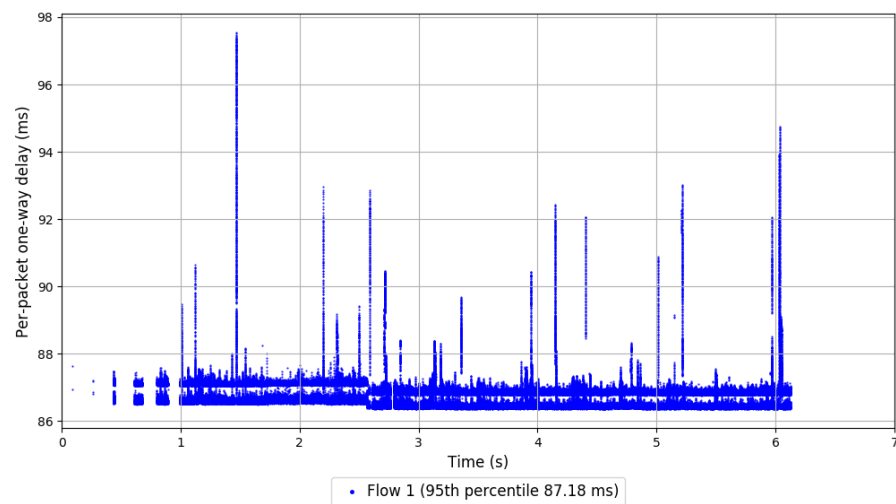
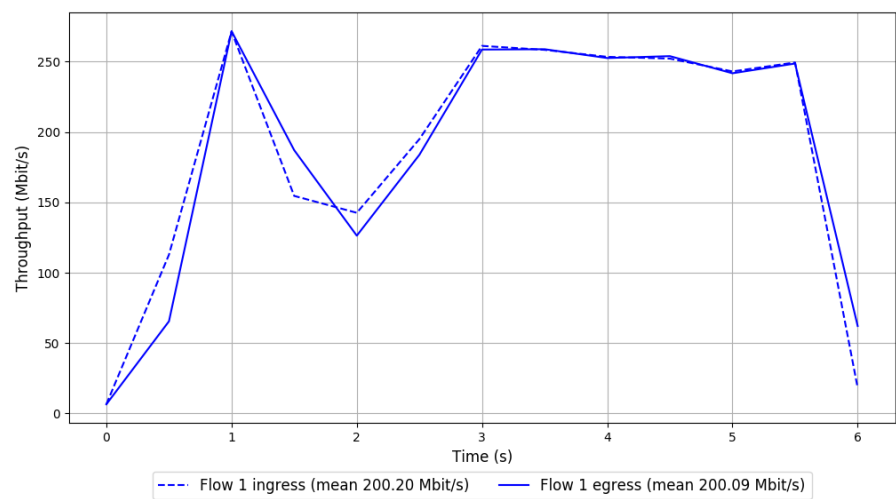


Run 4: Statistics of TaoVA-100x

Start at: 2017-08-16 19:07:11

End at: 2017-08-16 19:07:41

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

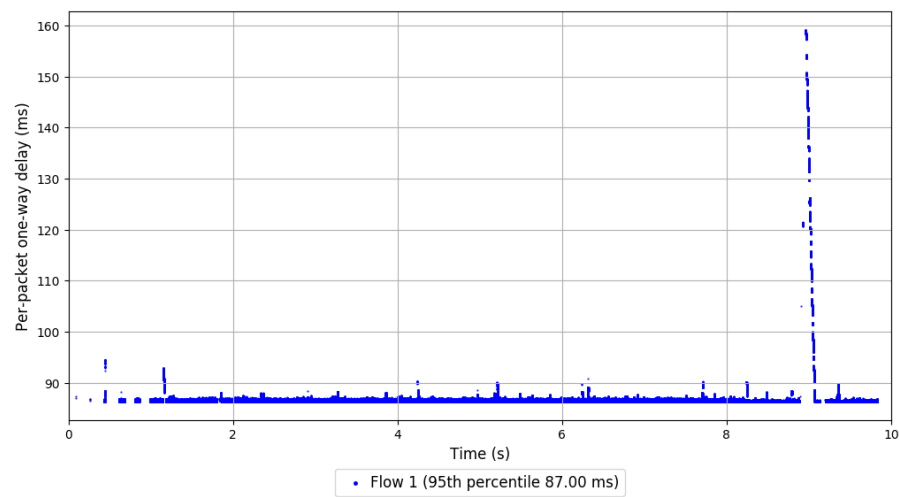
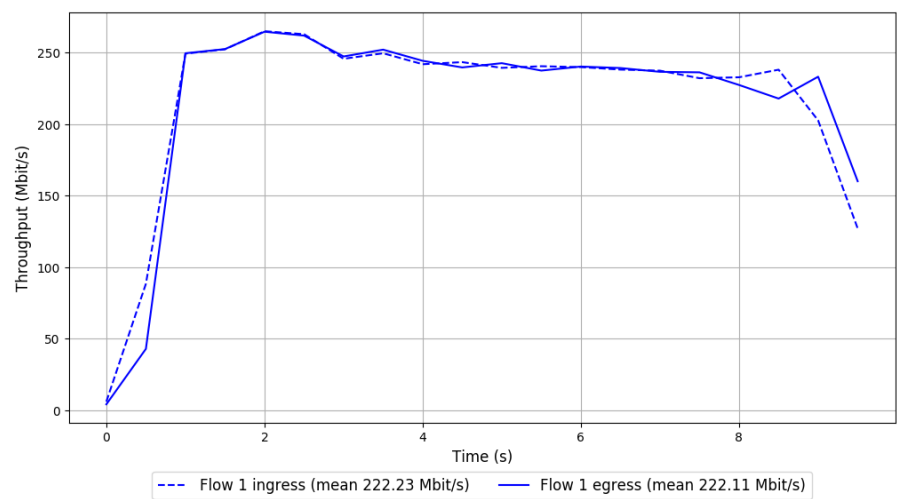


Run 5: Statistics of TaoVA-100x

Start at: 2017-08-16 19:18:14

End at: 2017-08-16 19:18:44

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

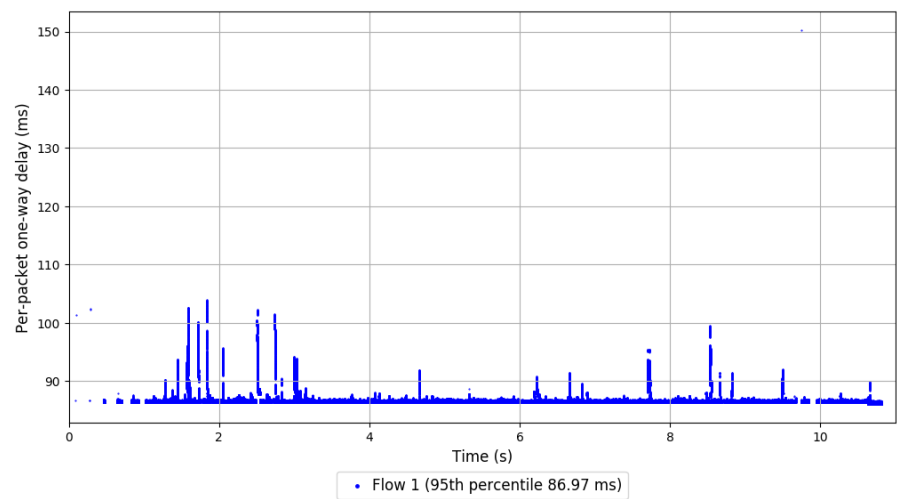
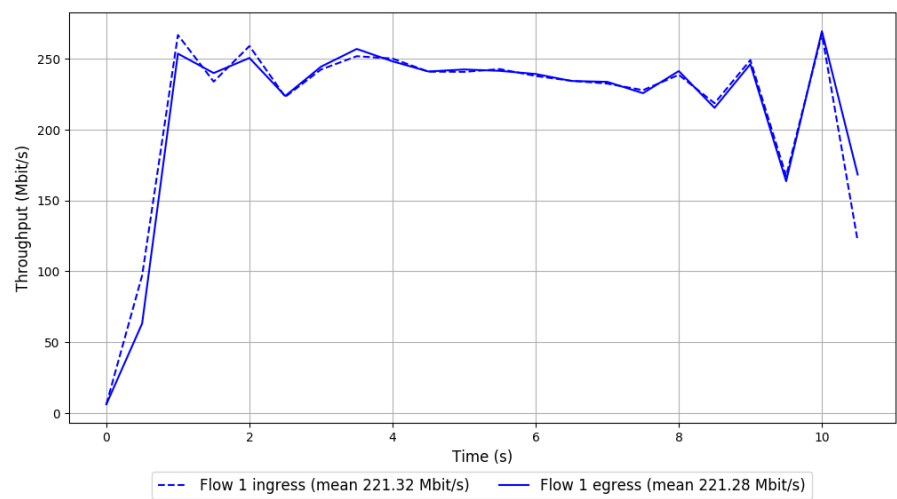


Run 6: Statistics of TaoVA-100x

Start at: 2017-08-16 19:29:22

End at: 2017-08-16 19:29:52

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

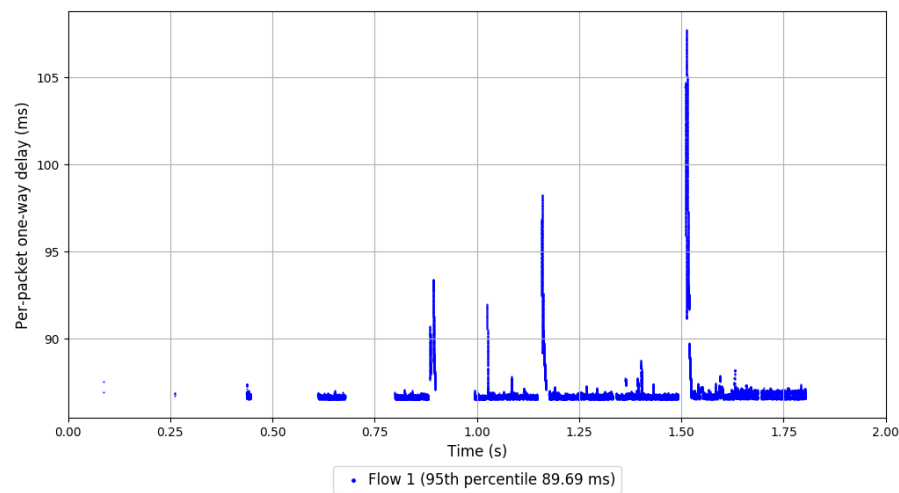
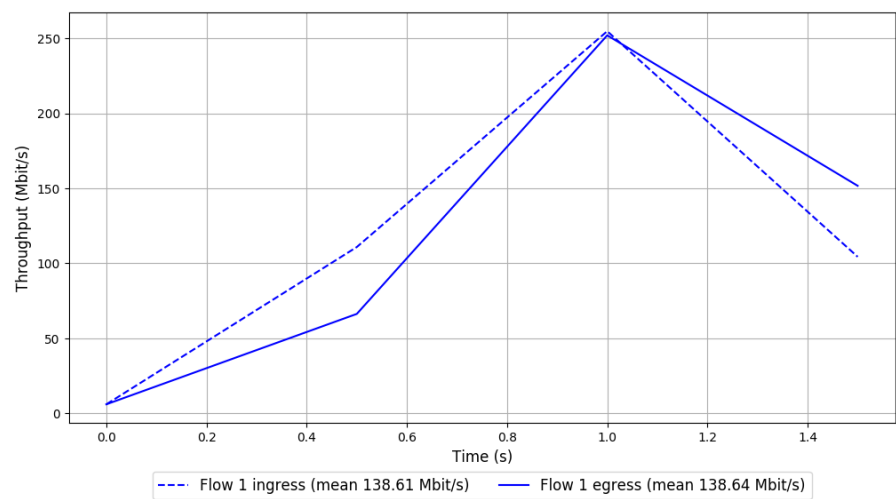


Run 7: Statistics of TaoVA-100x

Start at: 2017-08-16 19:40:22

End at: 2017-08-16 19:40:52

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

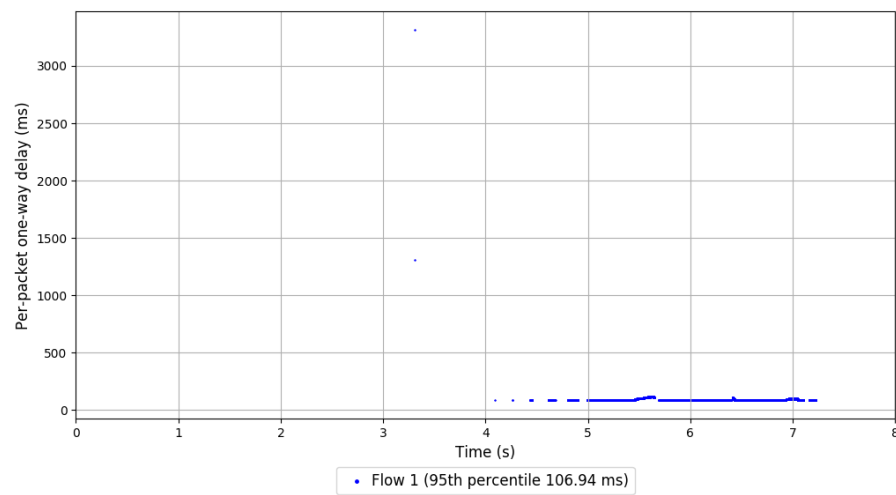
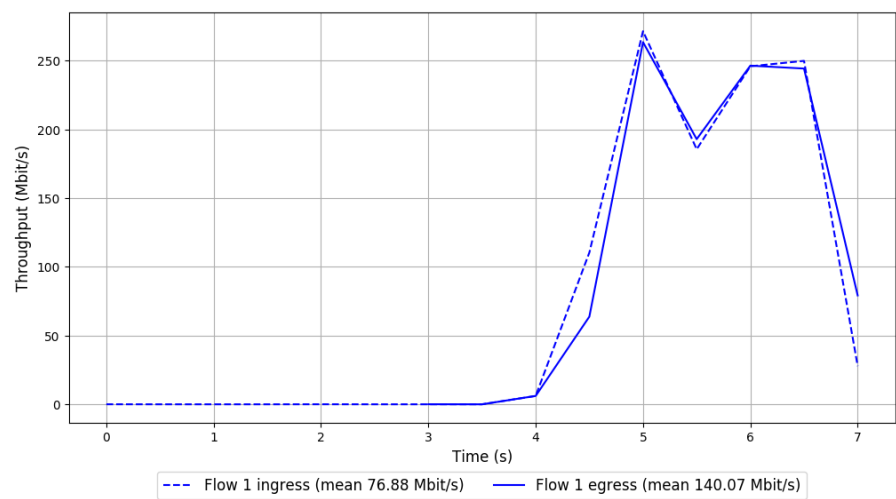


Run 8: Statistics of TaoVA-100x

Start at: 2017-08-16 19:51:23

End at: 2017-08-16 19:51:53

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

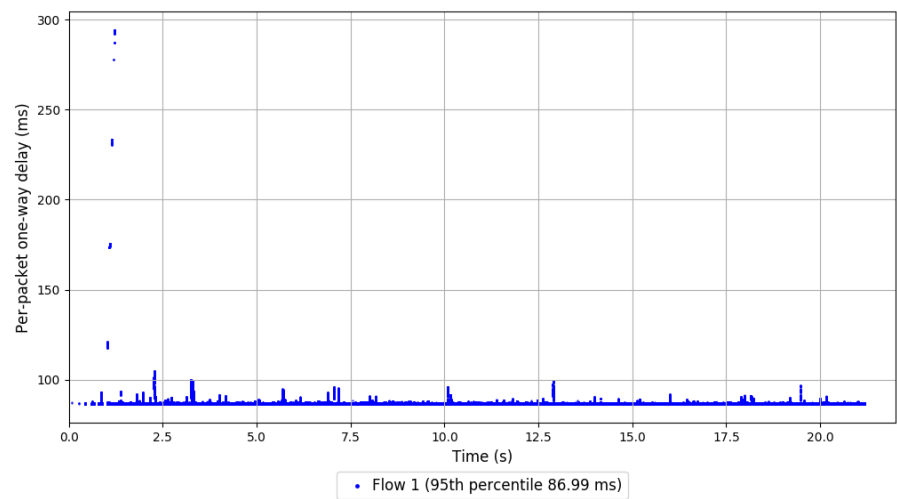
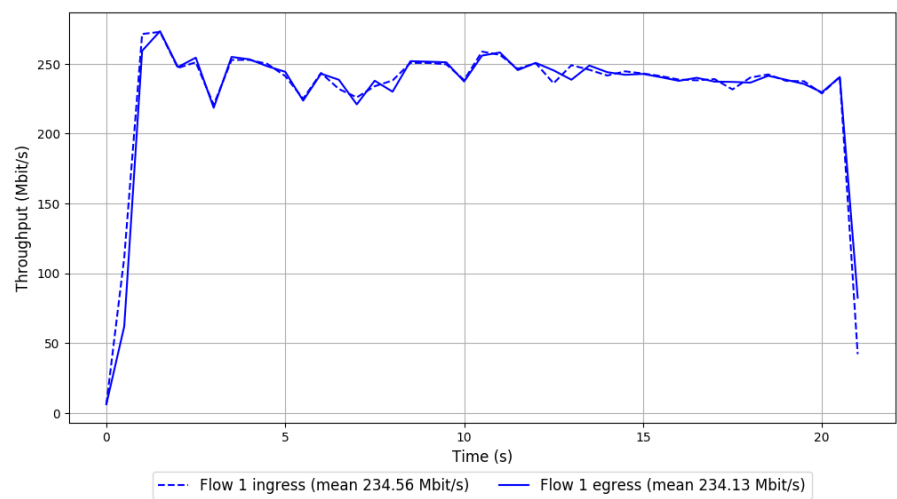


Run 9: Statistics of TaoVA-100x

Start at: 2017-08-16 20:02:21

End at: 2017-08-16 20:02:51

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

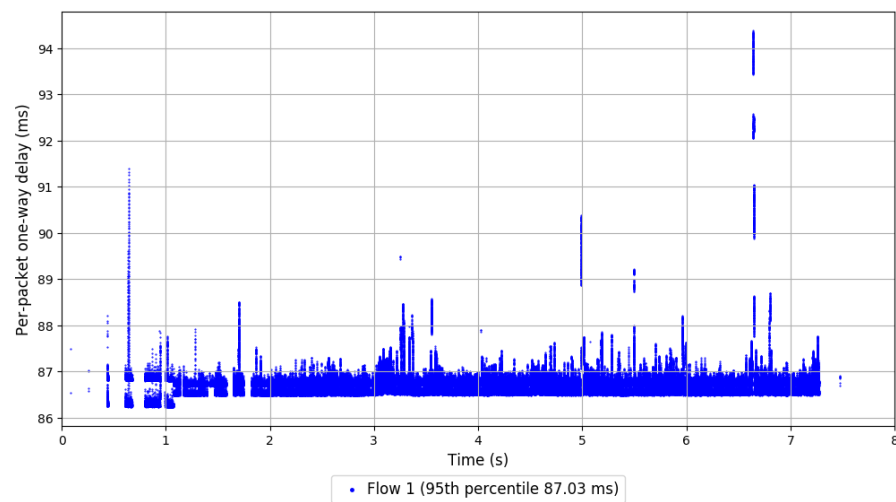
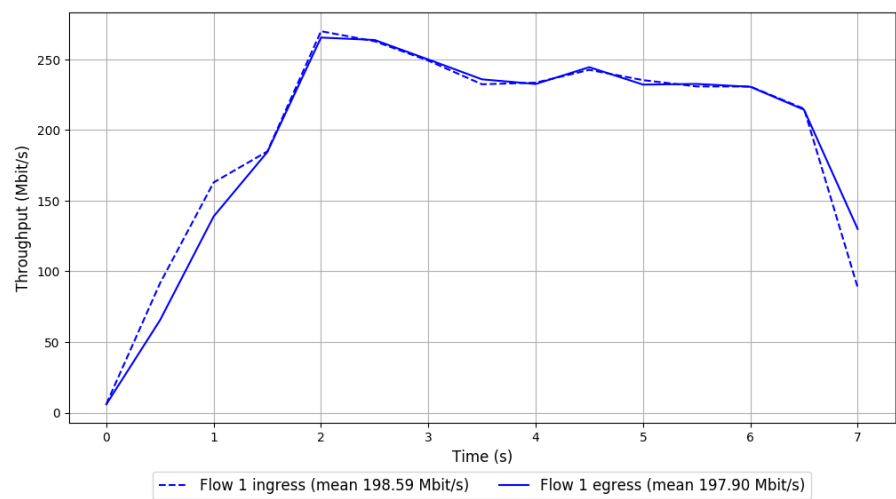


Run 10: Statistics of TaoVA-100x

Start at: 2017-08-16 20:13:43

End at: 2017-08-16 20:14:13

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



Run 1: Statistics of TCP Vegas

Start at: 2017-08-16 18:35:36

End at: 2017-08-16 18:36:06

Below is generated by plot.py at 2017-08-16 23:10:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.96 Mbit/s

95th percentile per-packet one-way delay: 87.950 ms

Loss rate: 2.99%

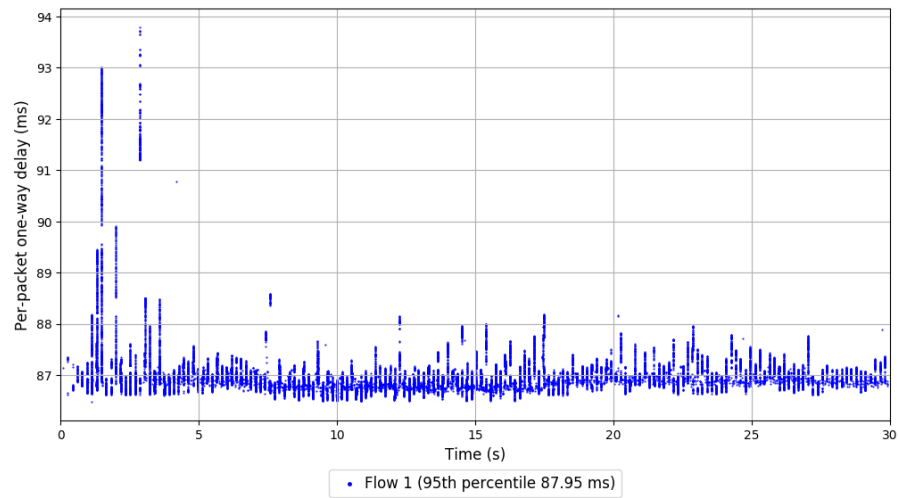
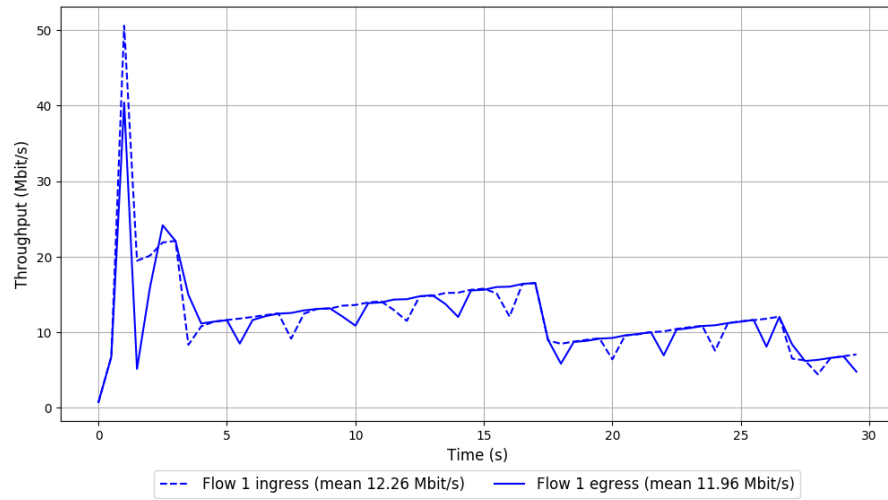
-- Flow 1:

Average throughput: 11.96 Mbit/s

95th percentile per-packet one-way delay: 87.950 ms

Loss rate: 2.99%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-08-16 18:46:21

End at: 2017-08-16 18:46:51

Below is generated by plot.py at 2017-08-16 23:10:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.25 Mbit/s

95th percentile per-packet one-way delay: 89.095 ms

Loss rate: 1.38%

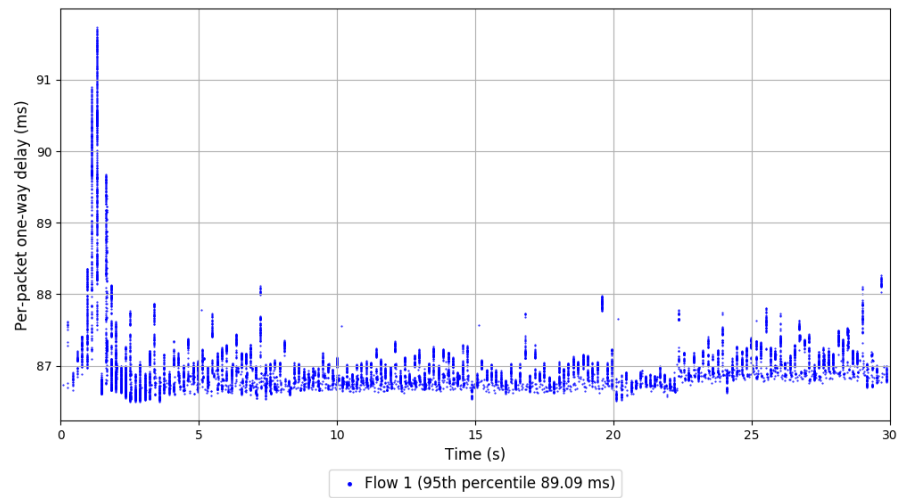
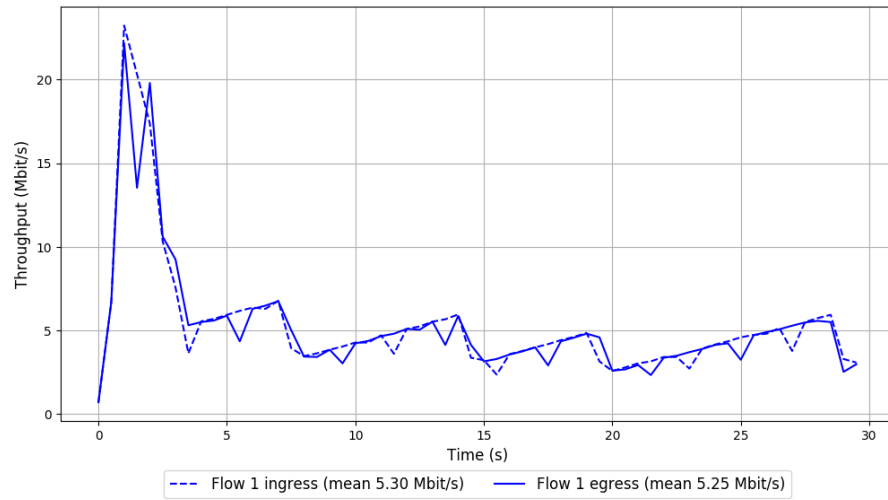
-- Flow 1:

Average throughput: 5.25 Mbit/s

95th percentile per-packet one-way delay: 89.095 ms

Loss rate: 1.38%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-08-16 18:57:15

End at: 2017-08-16 18:57:45

Below is generated by plot.py at 2017-08-16 23:10:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.37 Mbit/s

95th percentile per-packet one-way delay: 87.647 ms

Loss rate: 1.70%

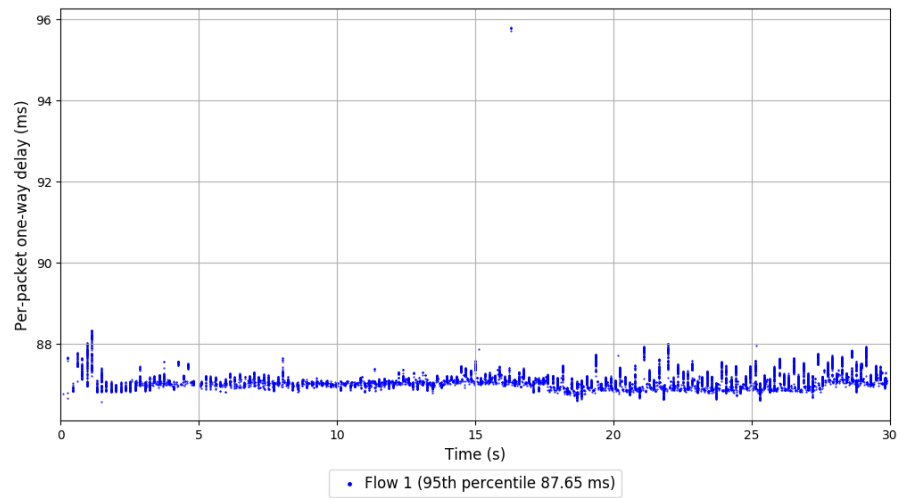
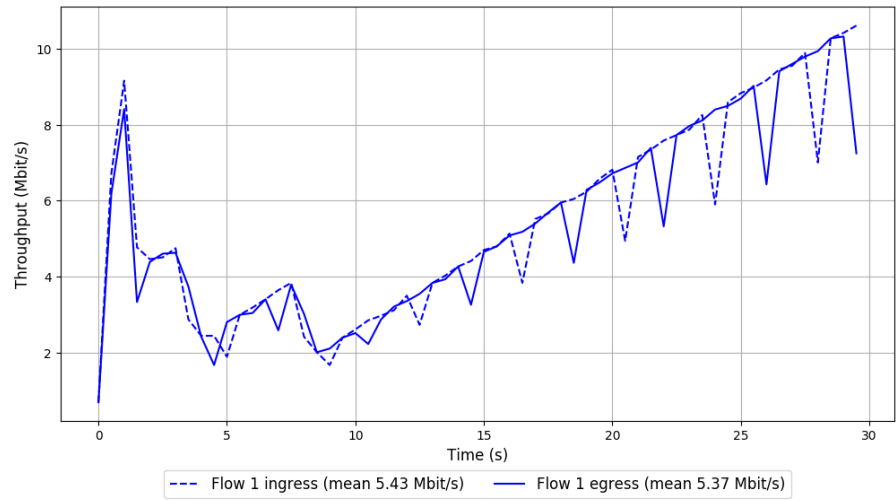
-- Flow 1:

Average throughput: 5.37 Mbit/s

95th percentile per-packet one-way delay: 87.647 ms

Loss rate: 1.70%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-08-16 19:08:35

End at: 2017-08-16 19:09:05

Below is generated by plot.py at 2017-08-16 23:10:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.18 Mbit/s

95th percentile per-packet one-way delay: 87.362 ms

Loss rate: 1.52%

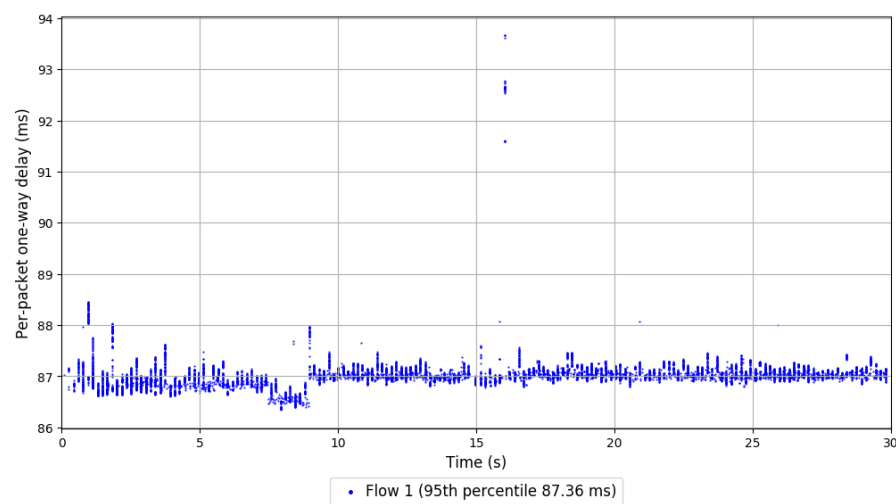
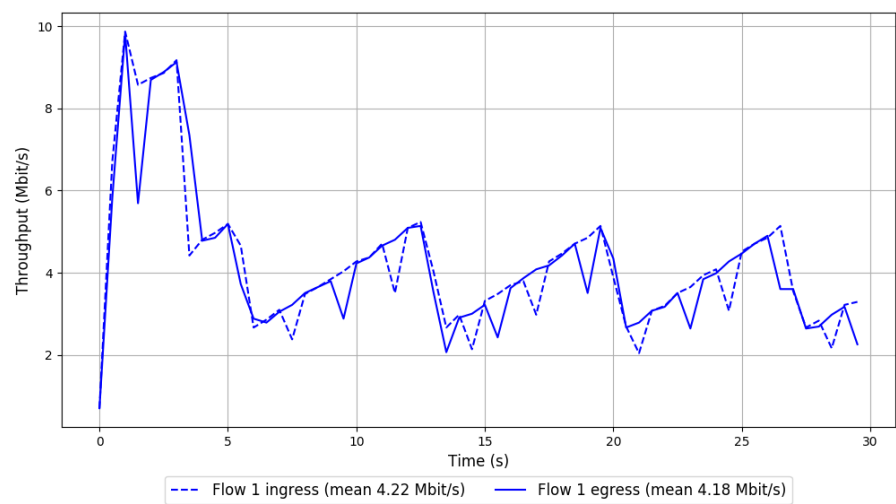
-- Flow 1:

Average throughput: 4.18 Mbit/s

95th percentile per-packet one-way delay: 87.362 ms

Loss rate: 1.52%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-08-16 19:19:42

End at: 2017-08-16 19:20:12

Below is generated by plot.py at 2017-08-16 23:10:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.02 Mbit/s

95th percentile per-packet one-way delay: 87.387 ms

Loss rate: 1.56%

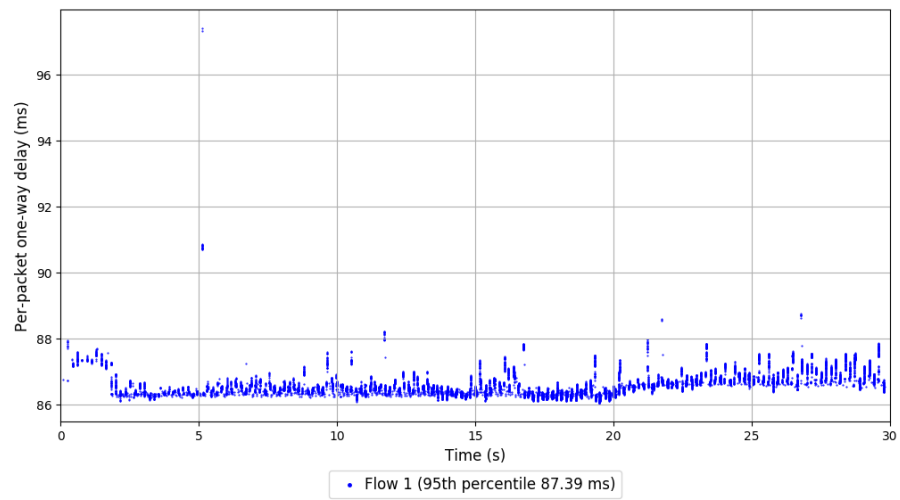
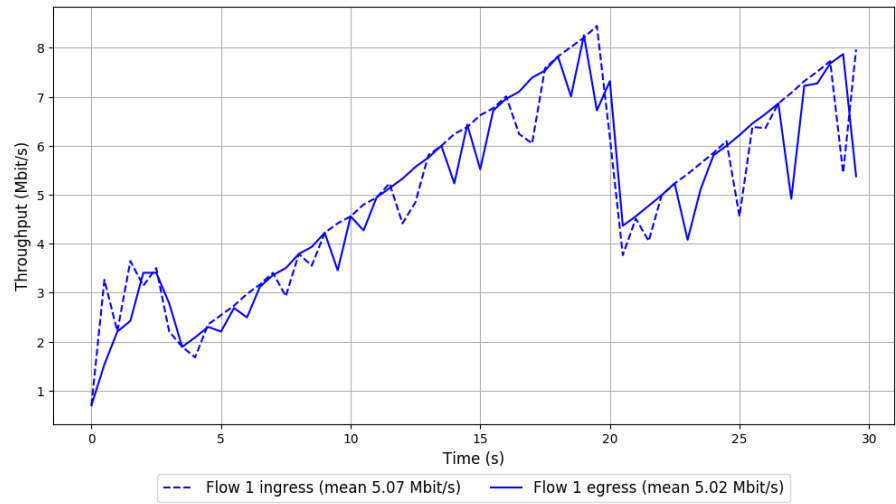
-- Flow 1:

Average throughput: 5.02 Mbit/s

95th percentile per-packet one-way delay: 87.387 ms

Loss rate: 1.56%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-08-16 19:30:48

End at: 2017-08-16 19:31:18

Below is generated by plot.py at 2017-08-16 23:10:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.72 Mbit/s

95th percentile per-packet one-way delay: 88.562 ms

Loss rate: 0.23%

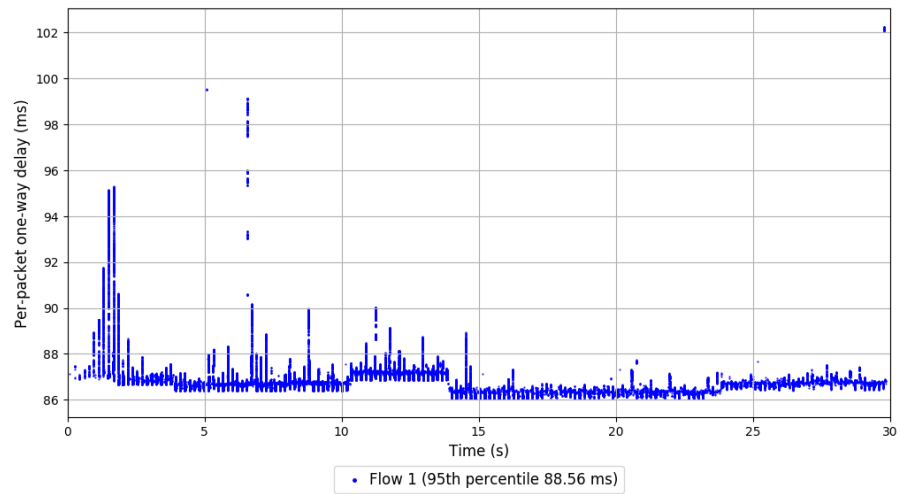
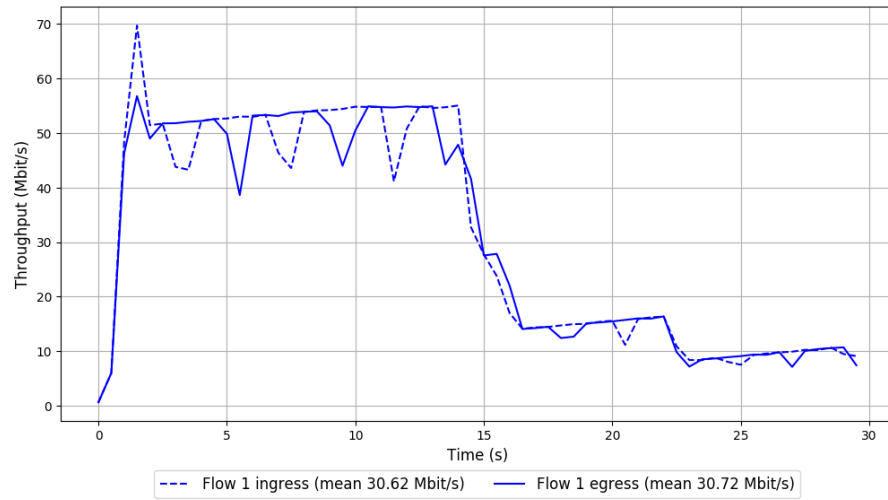
-- Flow 1:

Average throughput: 30.72 Mbit/s

95th percentile per-packet one-way delay: 88.562 ms

Loss rate: 0.23%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-08-16 19:41:41

End at: 2017-08-16 19:42:11

Below is generated by plot.py at 2017-08-16 23:10:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.23 Mbit/s

95th percentile per-packet one-way delay: 87.955 ms

Loss rate: 1.25%

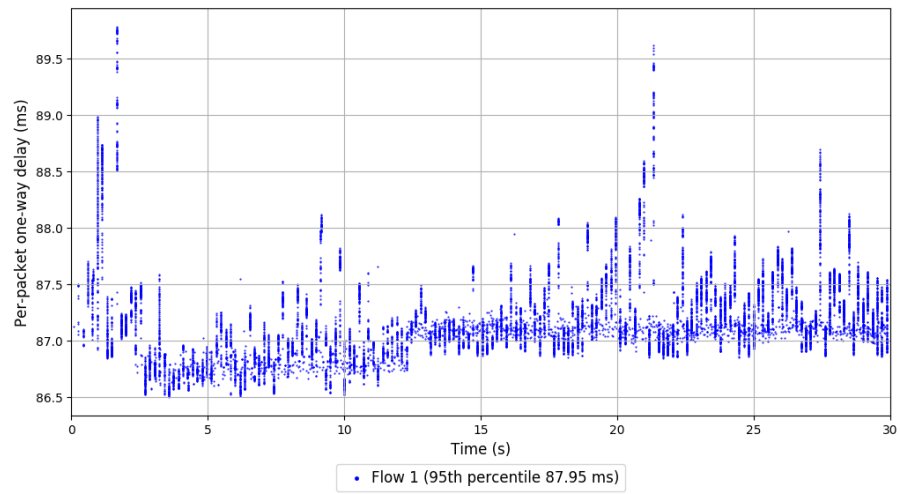
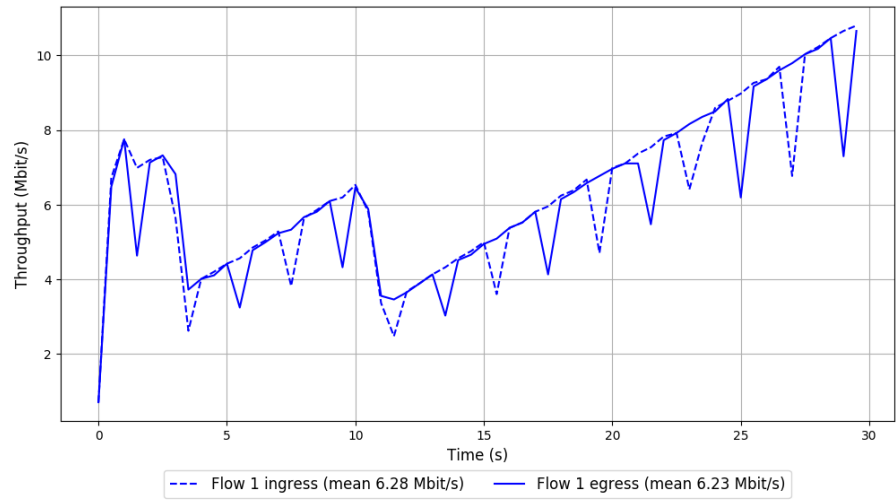
-- Flow 1:

Average throughput: 6.23 Mbit/s

95th percentile per-packet one-way delay: 87.955 ms

Loss rate: 1.25%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-08-16 19:52:44

End at: 2017-08-16 19:53:14

Below is generated by plot.py at 2017-08-16 23:10:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.26 Mbit/s

95th percentile per-packet one-way delay: 88.044 ms

Loss rate: 0.84%

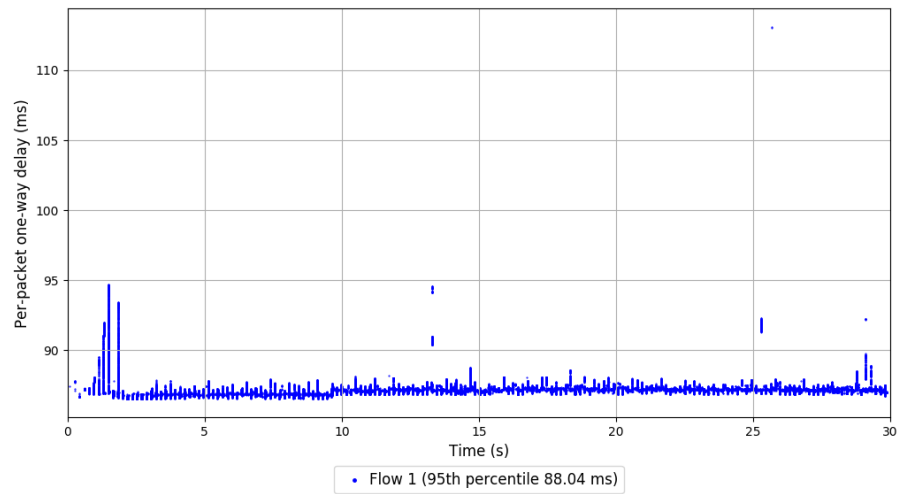
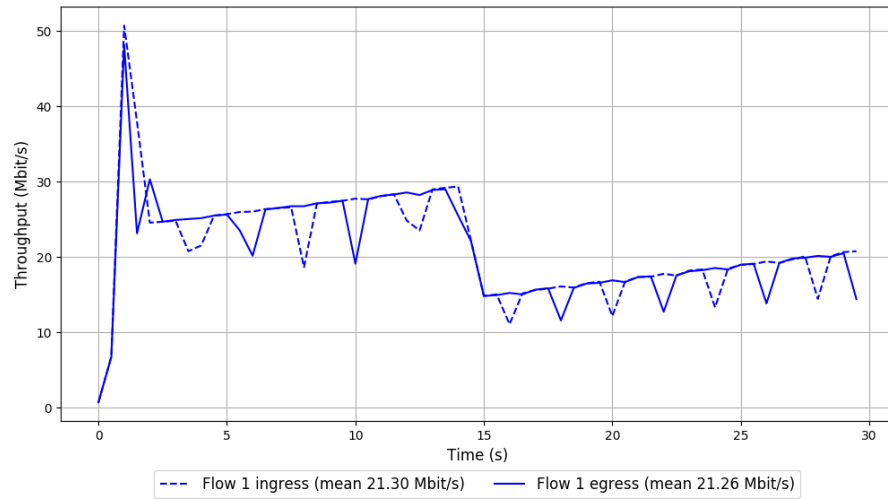
-- Flow 1:

Average throughput: 21.26 Mbit/s

95th percentile per-packet one-way delay: 88.044 ms

Loss rate: 0.84%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-08-16 20:04:09

End at: 2017-08-16 20:04:39

Below is generated by plot.py at 2017-08-16 23:10:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.92 Mbit/s

95th percentile per-packet one-way delay: 89.484 ms

Loss rate: 0.70%

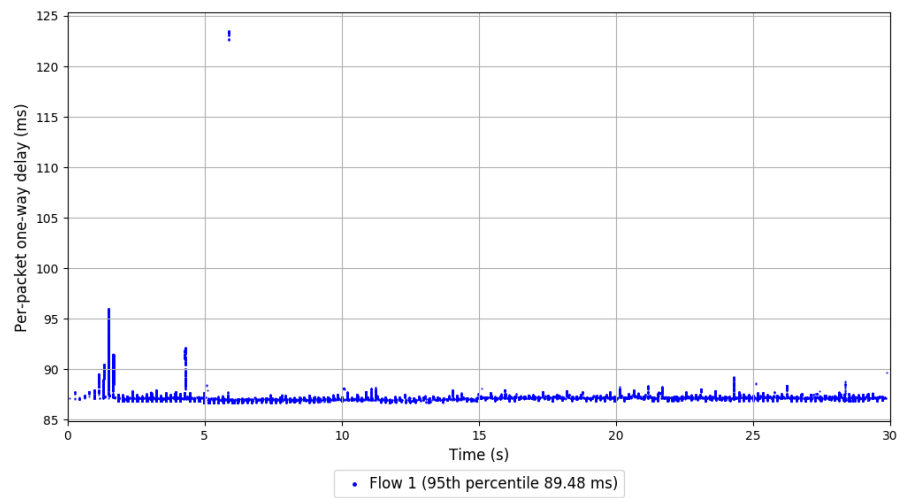
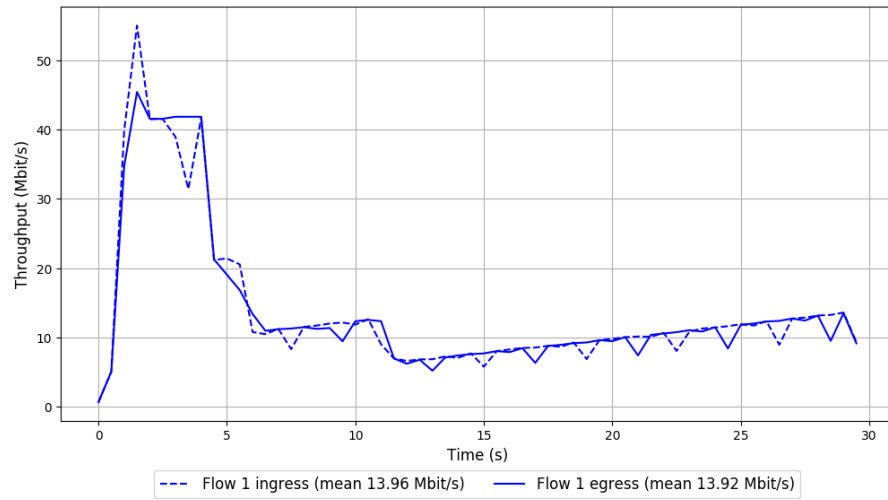
-- Flow 1:

Average throughput: 13.92 Mbit/s

95th percentile per-packet one-way delay: 89.484 ms

Loss rate: 0.70%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-08-16 20:15:08

End at: 2017-08-16 20:15:38

Below is generated by plot.py at 2017-08-16 23:10:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.93 Mbit/s

95th percentile per-packet one-way delay: 89.953 ms

Loss rate: 1.71%

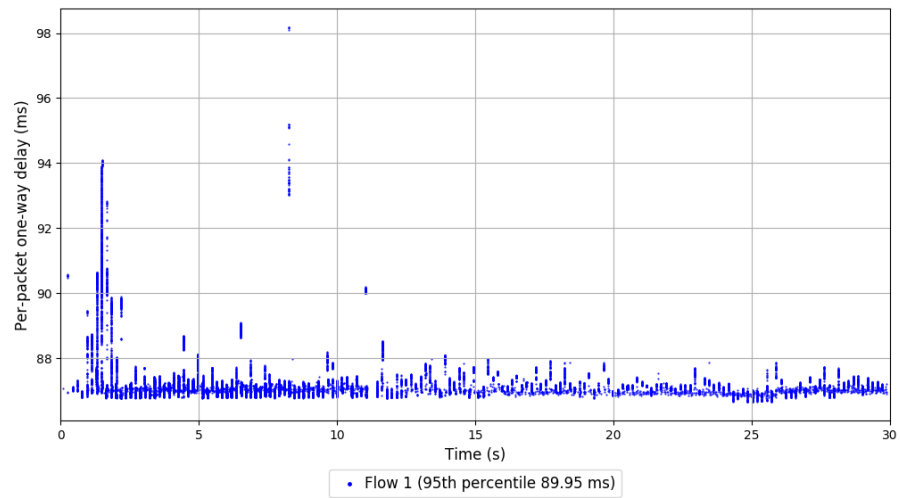
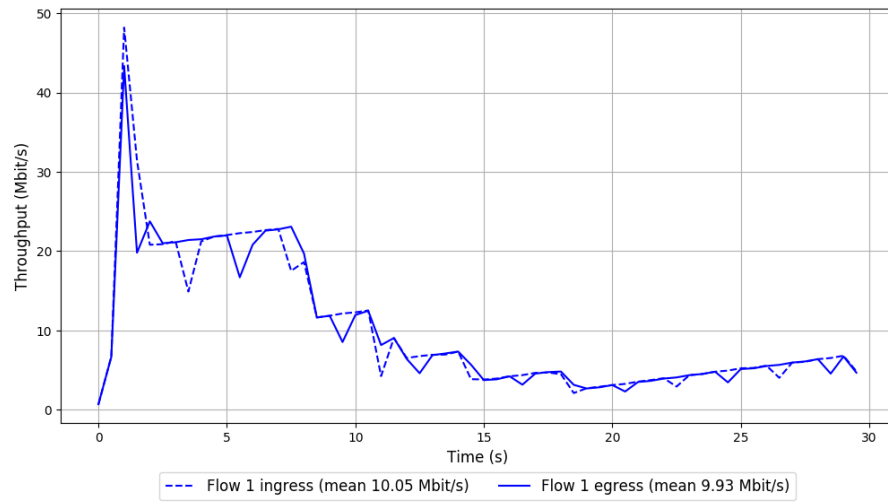
-- Flow 1:

Average throughput: 9.93 Mbit/s

95th percentile per-packet one-way delay: 89.953 ms

Loss rate: 1.71%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-08-16 18:32:11

End at: 2017-08-16 18:32:41

Below is generated by plot.py at 2017-08-16 23:10:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.32 Mbit/s

95th percentile per-packet one-way delay: 124.216 ms

Loss rate: 47.61%

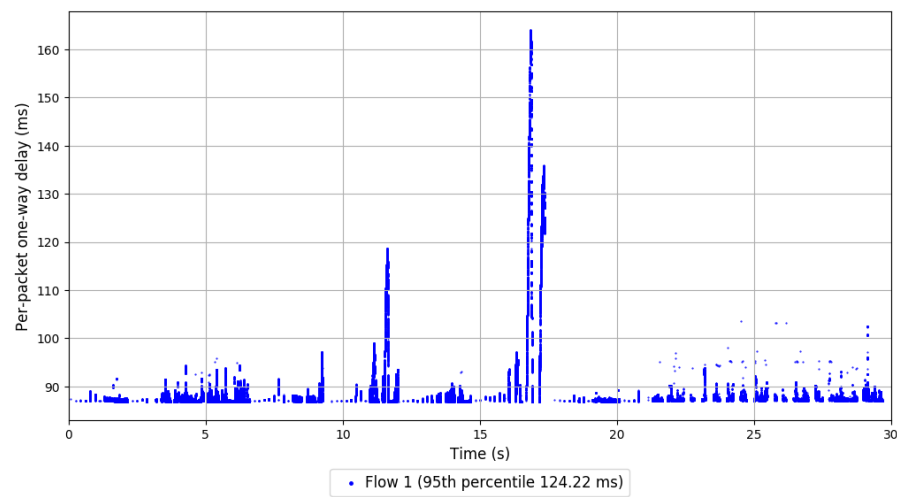
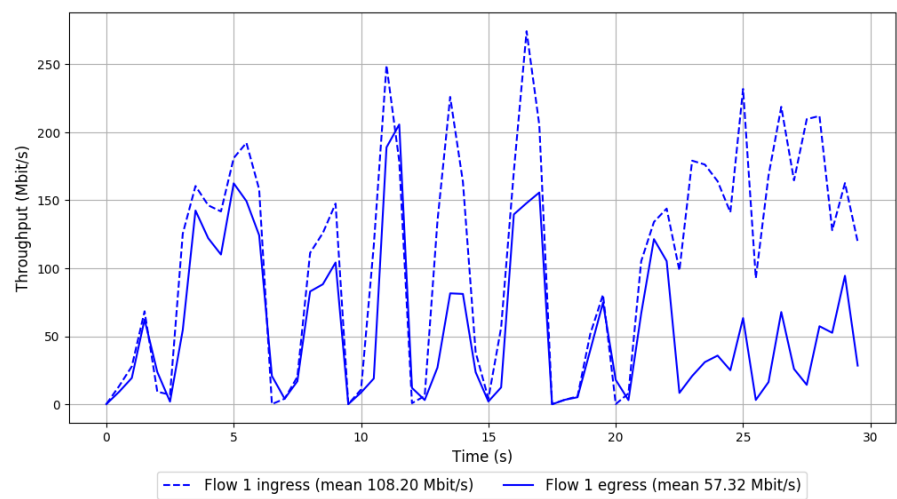
-- Flow 1:

Average throughput: 57.32 Mbit/s

95th percentile per-packet one-way delay: 124.216 ms

Loss rate: 47.61%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-08-16 18:42:51

End at: 2017-08-16 18:43:21

Below is generated by plot.py at 2017-08-16 23:10:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 126.72 Mbit/s

95th percentile per-packet one-way delay: 105.954 ms

Loss rate: 2.72%

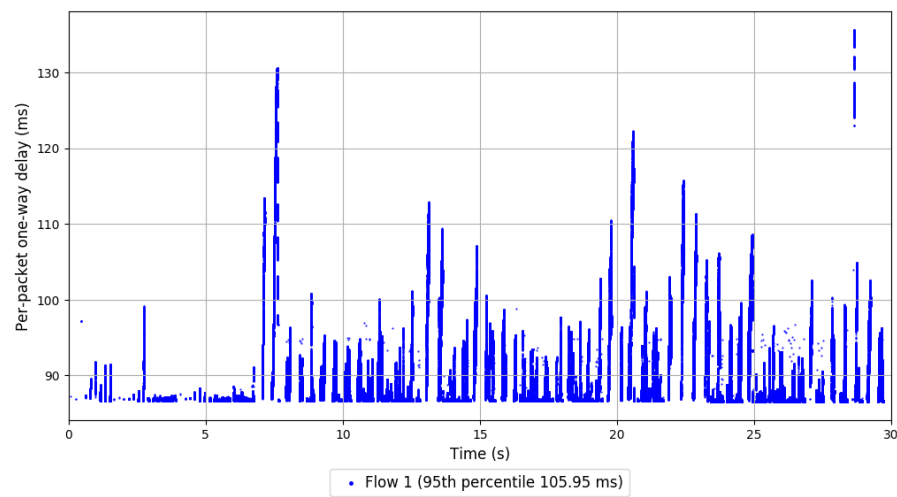
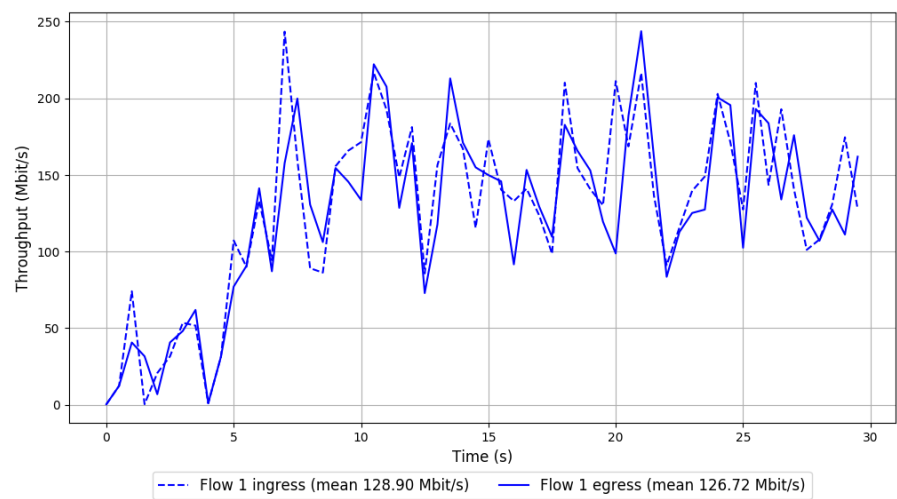
-- Flow 1:

Average throughput: 126.72 Mbit/s

95th percentile per-packet one-way delay: 105.954 ms

Loss rate: 2.72%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-08-16 18:53:45

End at: 2017-08-16 18:54:15

Below is generated by plot.py at 2017-08-16 23:10:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.44 Mbit/s

95th percentile per-packet one-way delay: 100.115 ms

Loss rate: 27.72%

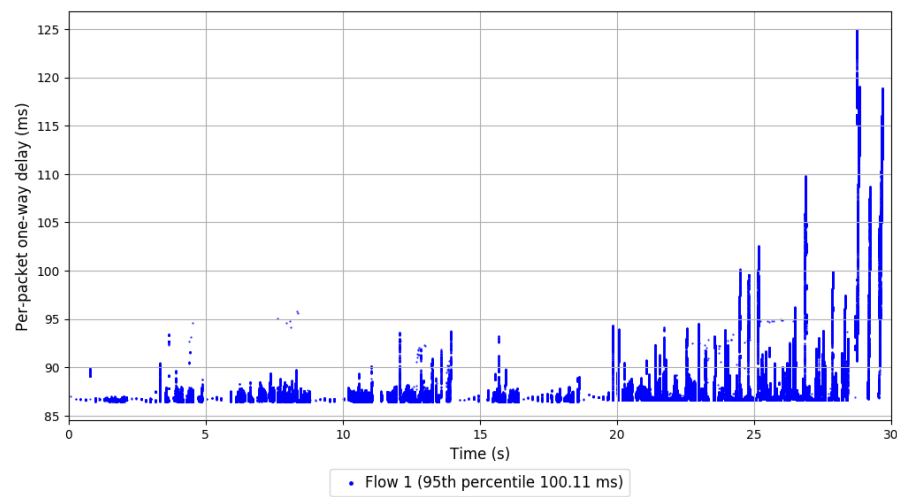
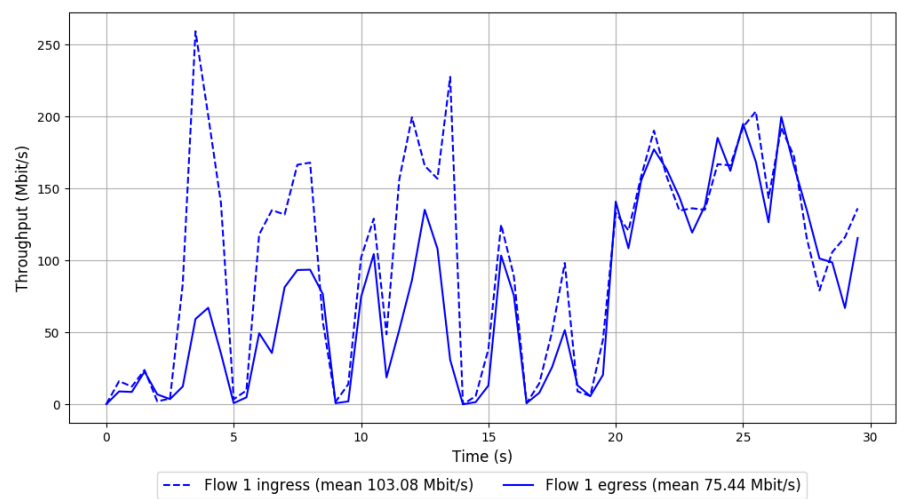
-- Flow 1:

Average throughput: 75.44 Mbit/s

95th percentile per-packet one-way delay: 100.115 ms

Loss rate: 27.72%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-08-16 19:05:04

End at: 2017-08-16 19:05:34

Below is generated by plot.py at 2017-08-16 23:11:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.78 Mbit/s

95th percentile per-packet one-way delay: 101.638 ms

Loss rate: 25.54%

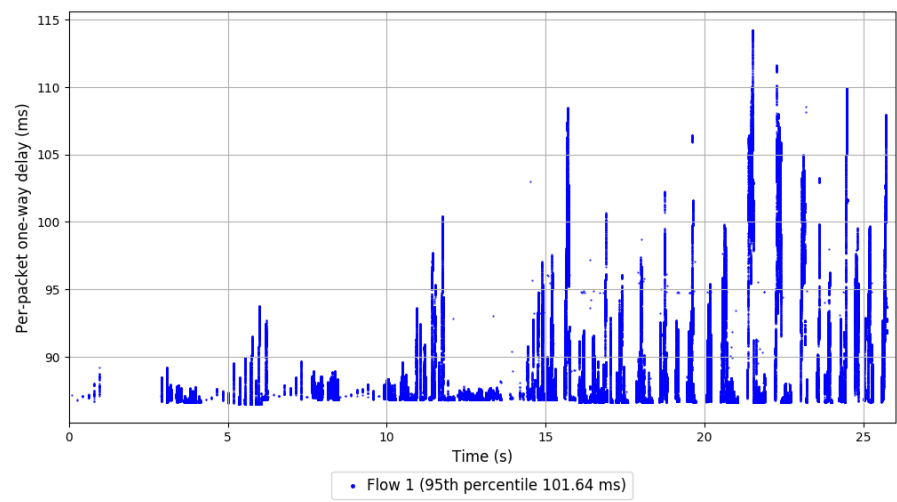
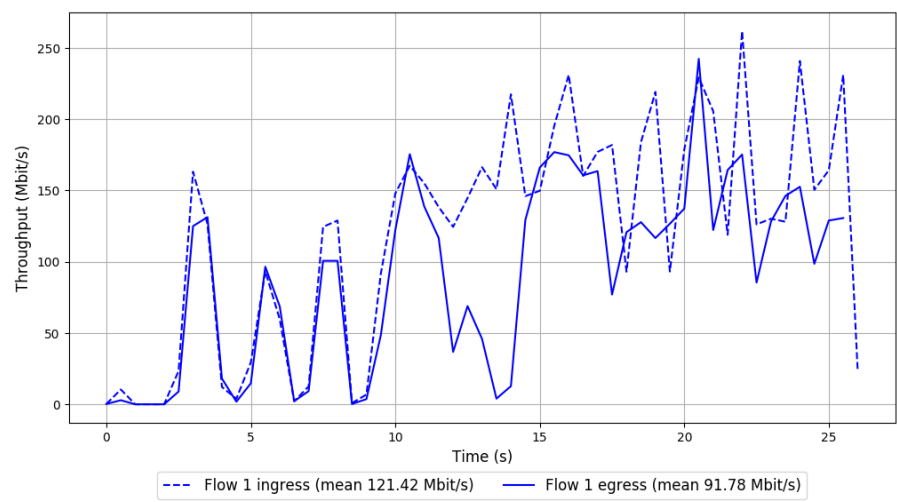
-- Flow 1:

Average throughput: 91.78 Mbit/s

95th percentile per-packet one-way delay: 101.638 ms

Loss rate: 25.54%

Run 4: Report of Verus — Data Link

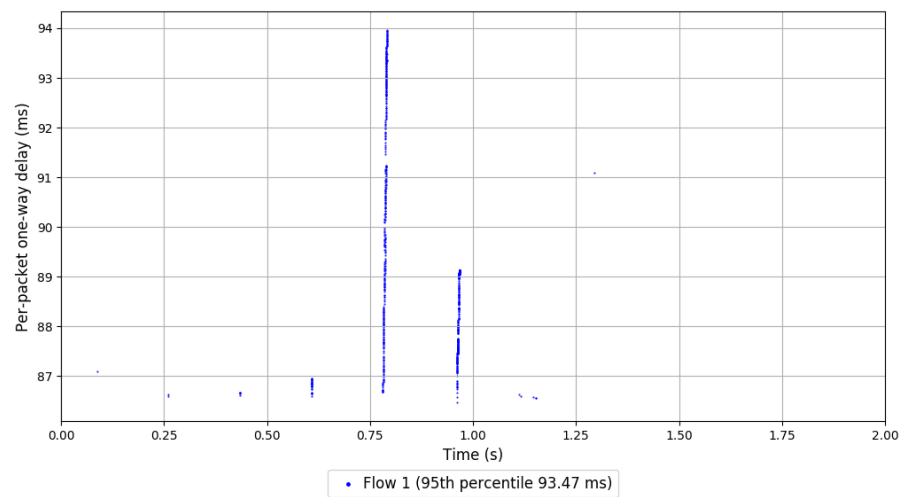
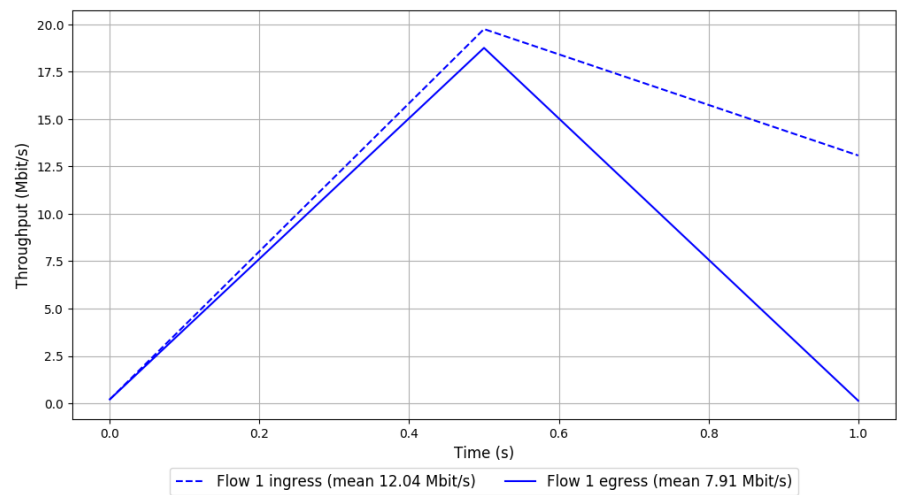


Run 5: Statistics of Verus

Start at: 2017-08-16 19:16:15

End at: 2017-08-16 19:16:45

Run 5: Report of Verus — Data Link

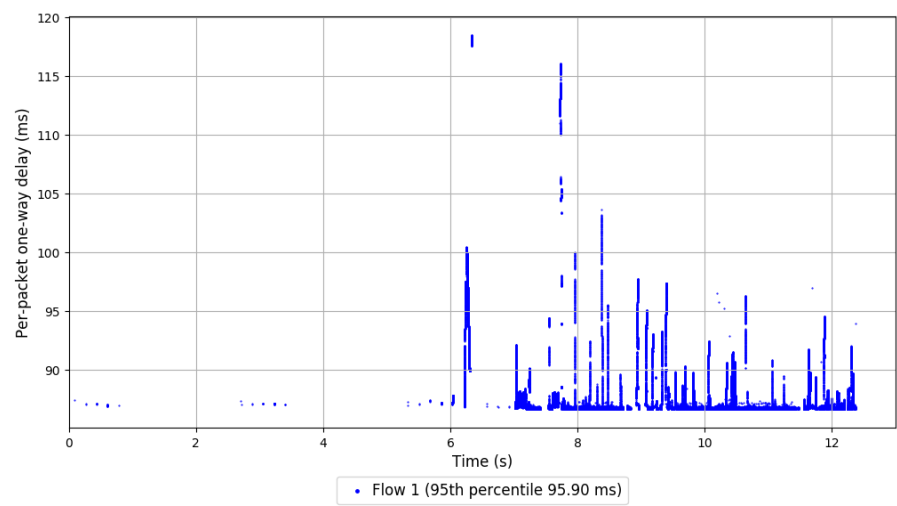
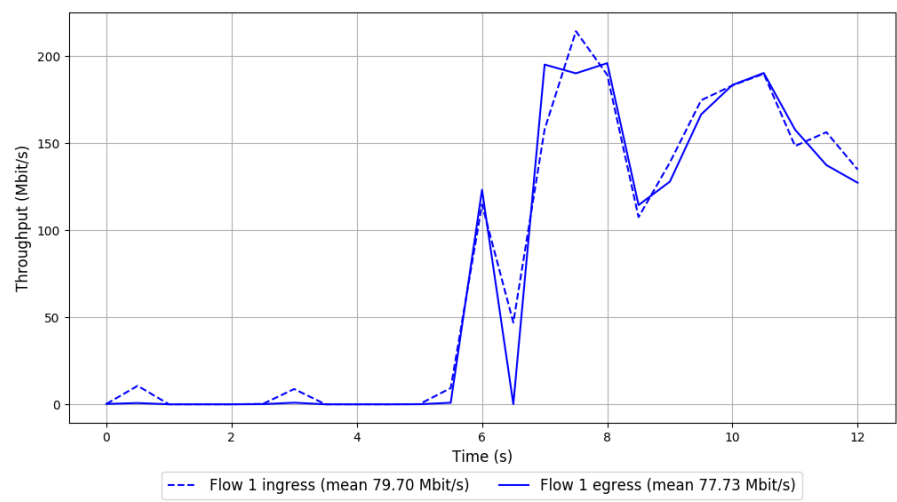


Run 6: Statistics of Verus

Start at: 2017-08-16 19:27:20

End at: 2017-08-16 19:27:50

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-08-16 19:38:17

End at: 2017-08-16 19:38:47

Below is generated by plot.py at 2017-08-16 23:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.41 Mbit/s

95th percentile per-packet one-way delay: 106.020 ms

Loss rate: 17.79%

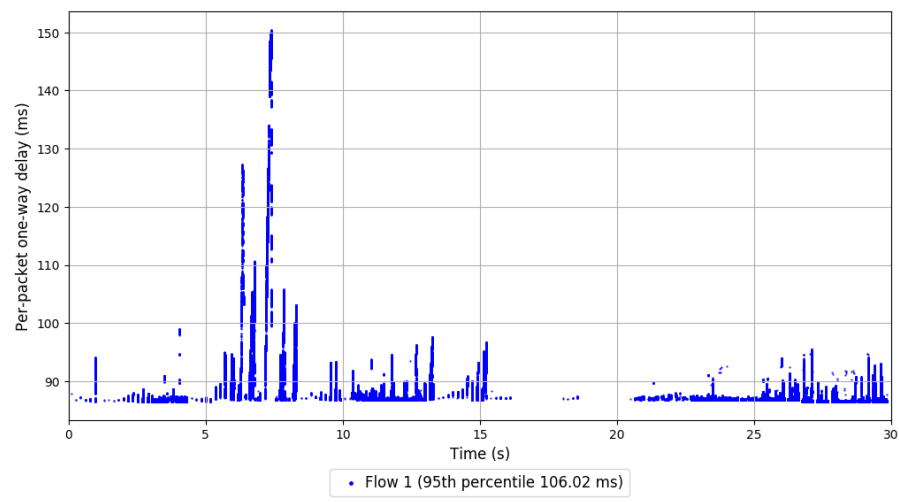
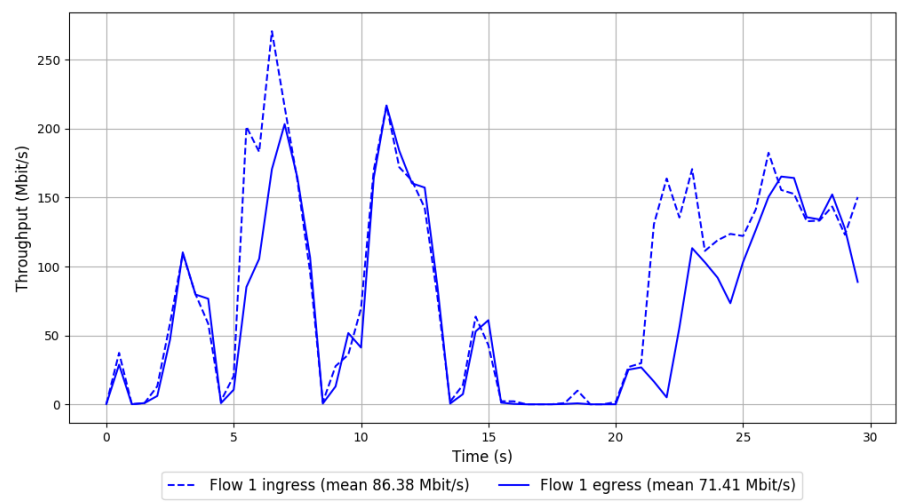
-- Flow 1:

Average throughput: 71.41 Mbit/s

95th percentile per-packet one-way delay: 106.020 ms

Loss rate: 17.79%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-08-16 19:49:08

End at: 2017-08-16 19:49:38

Below is generated by plot.py at 2017-08-16 23:11:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 159.94 Mbit/s

95th percentile per-packet one-way delay: 106.689 ms

Loss rate: 1.80%

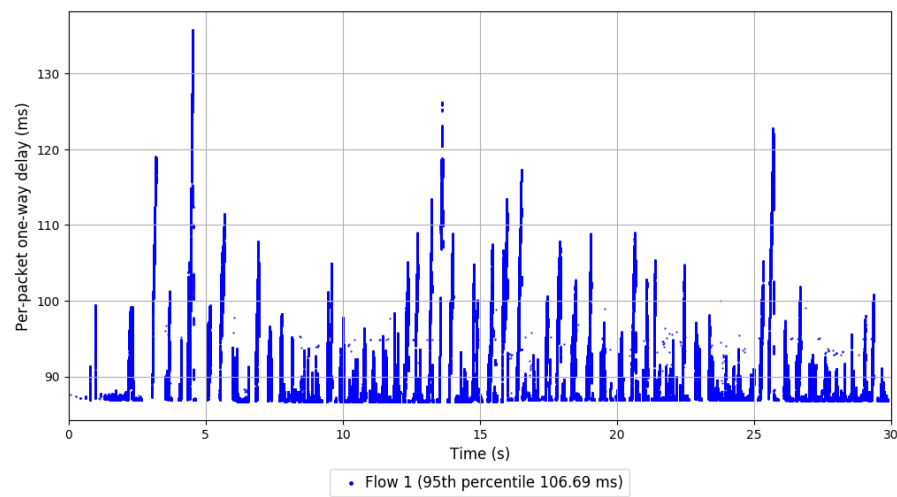
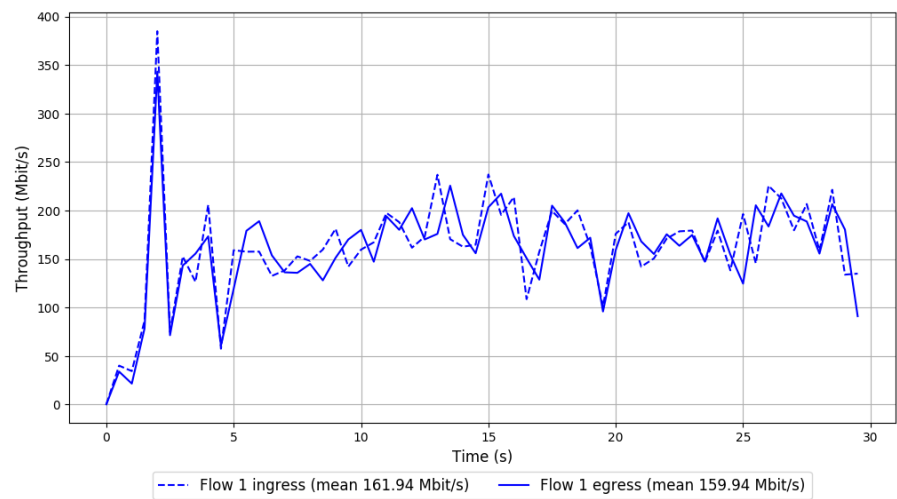
-- Flow 1:

Average throughput: 159.94 Mbit/s

95th percentile per-packet one-way delay: 106.689 ms

Loss rate: 1.80%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-08-16 20:00:06

End at: 2017-08-16 20:00:36

Below is generated by plot.py at 2017-08-16 23:11:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 133.41 Mbit/s

95th percentile per-packet one-way delay: 94.578 ms

Loss rate: 20.17%

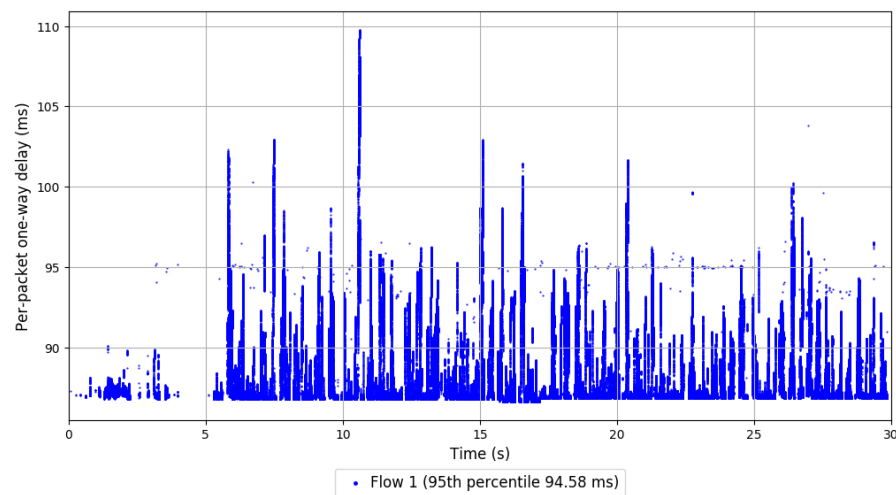
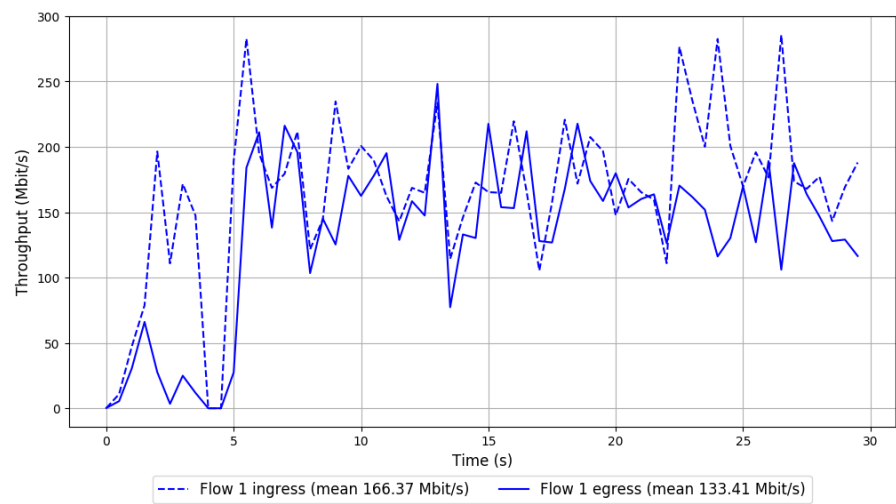
-- Flow 1:

Average throughput: 133.41 Mbit/s

95th percentile per-packet one-way delay: 94.578 ms

Loss rate: 20.17%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-08-16 20:11:34

End at: 2017-08-16 20:12:04

Below is generated by plot.py at 2017-08-16 23:11:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 107.09 Mbit/s

95th percentile per-packet one-way delay: 151.187 ms

Loss rate: 3.24%

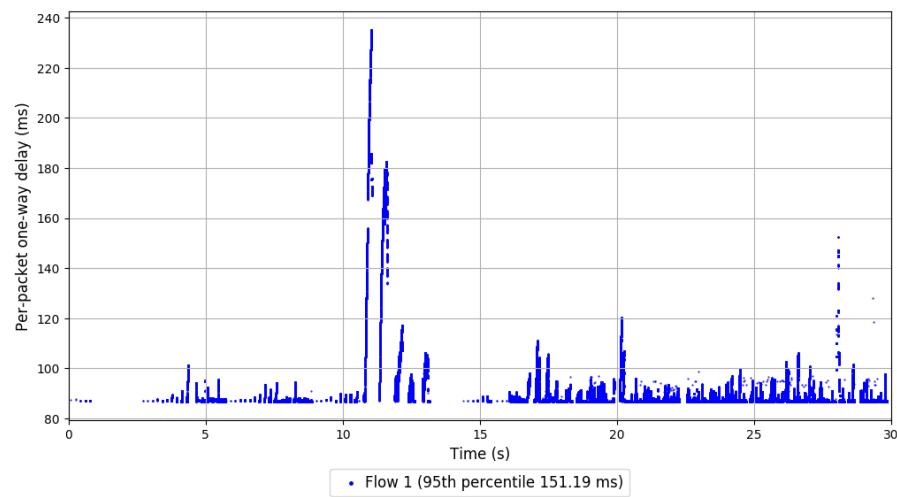
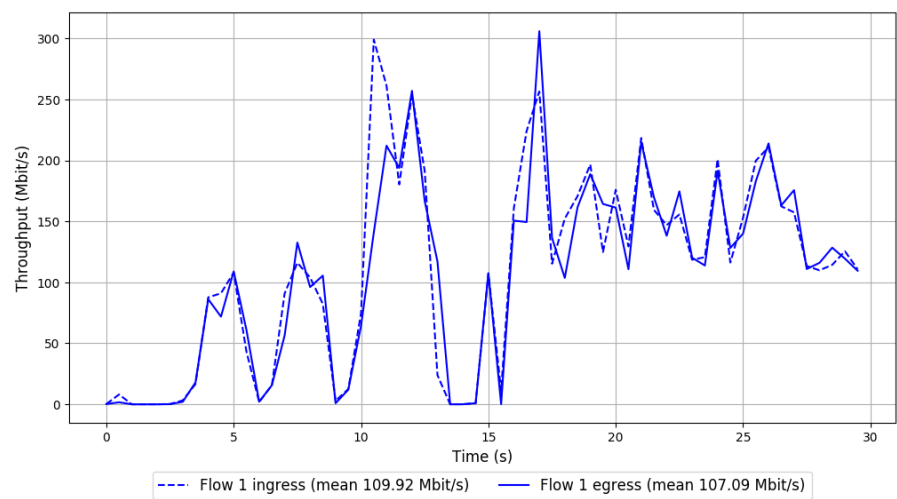
-- Flow 1:

Average throughput: 107.09 Mbit/s

95th percentile per-packet one-way delay: 151.187 ms

Loss rate: 3.24%

Run 10: Report of Verus — Data Link

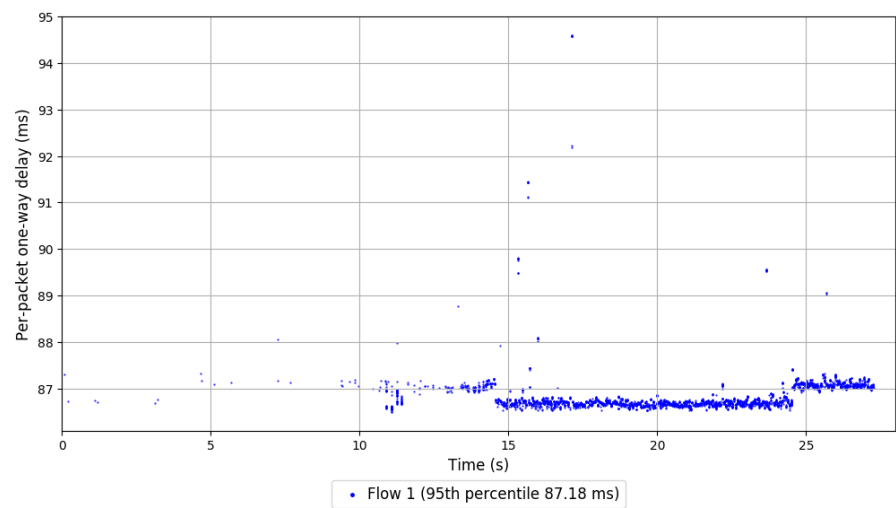
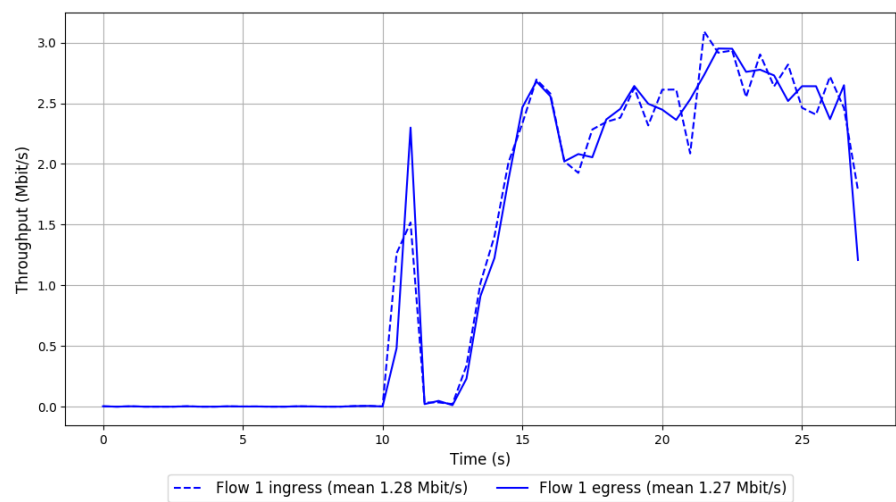


```
Run 1: Statistics of WebRTC media

Start at: 2017-08-16 18:38:57
End at: 2017-08-16 18:39:27

# Below is generated by plot.py at 2017-08-16 23:11:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.27 Mbit/s
95th percentile per-packet one-way delay: 87.179 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 1.27 Mbit/s
95th percentile per-packet one-way delay: 87.179 ms
Loss rate: 1.38%
```


Run 1: Report of WebRTC media — Data Link

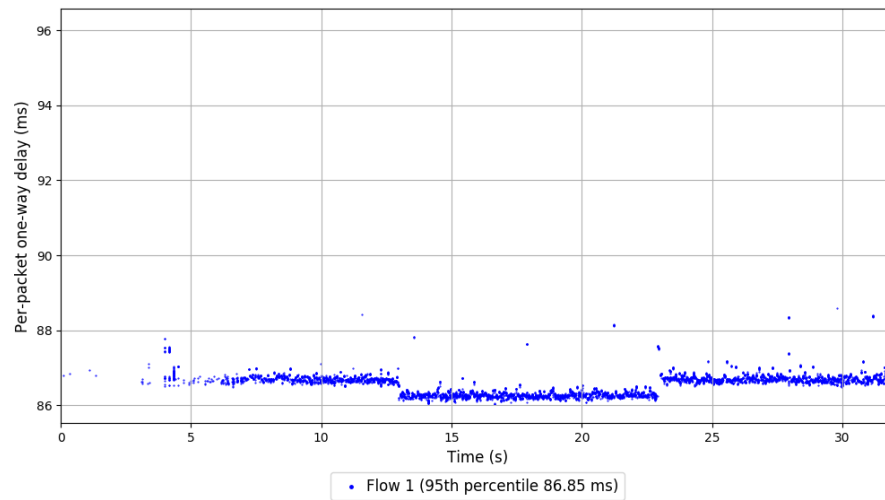
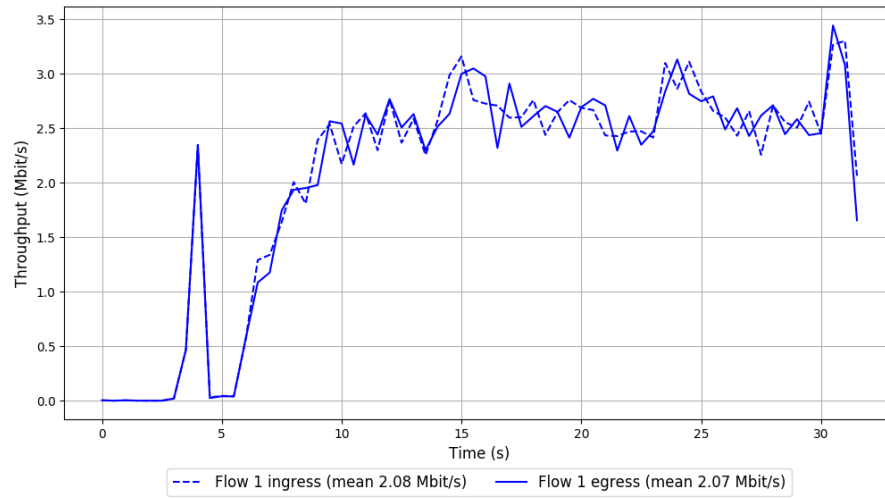


```
Run 2: Statistics of WebRTC media

Start at: 2017-08-16 18:49:43
End at: 2017-08-16 18:50:13

# Below is generated by plot.py at 2017-08-16 23:11:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 86.851 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 86.851 ms
Loss rate: 0.78%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-08-16 19:00:37

End at: 2017-08-16 19:01:07

Below is generated by plot.py at 2017-08-16 23:11:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 87.178 ms

Loss rate: 0.93%

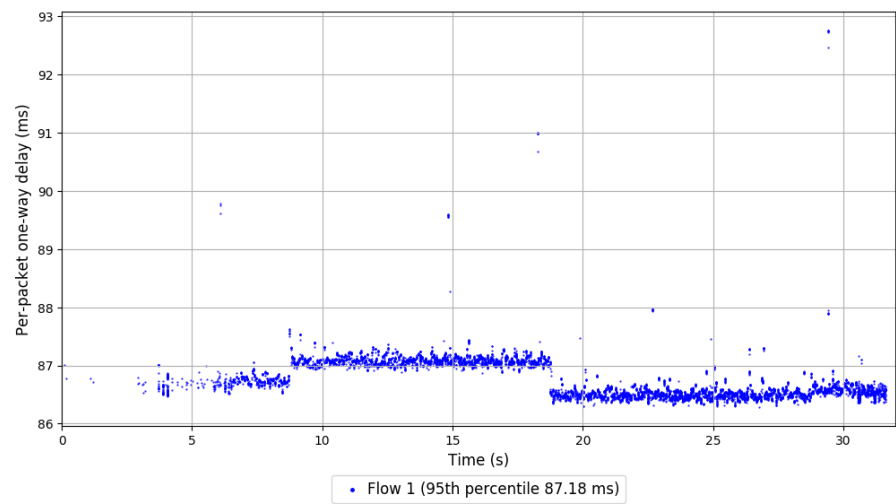
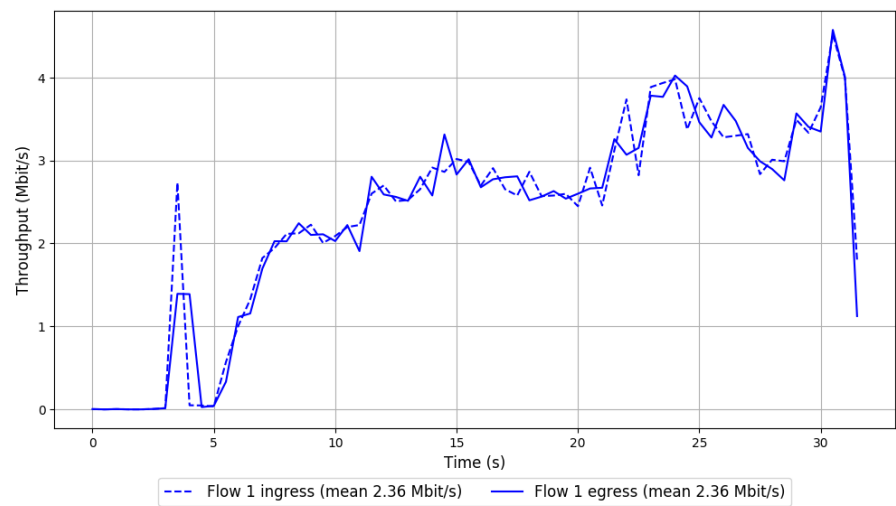
-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 87.178 ms

Loss rate: 0.93%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-08-16 19:11:56

End at: 2017-08-16 19:12:26

Below is generated by plot.py at 2017-08-16 23:11:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 86.862 ms

Loss rate: 0.62%

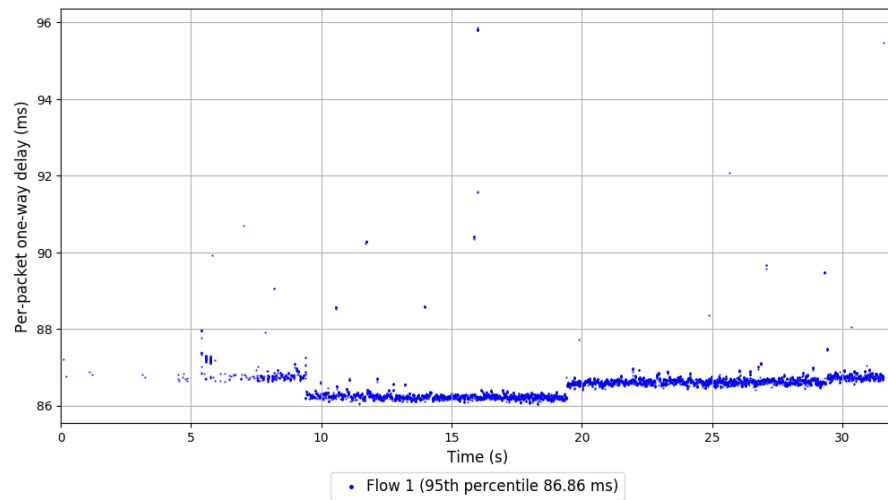
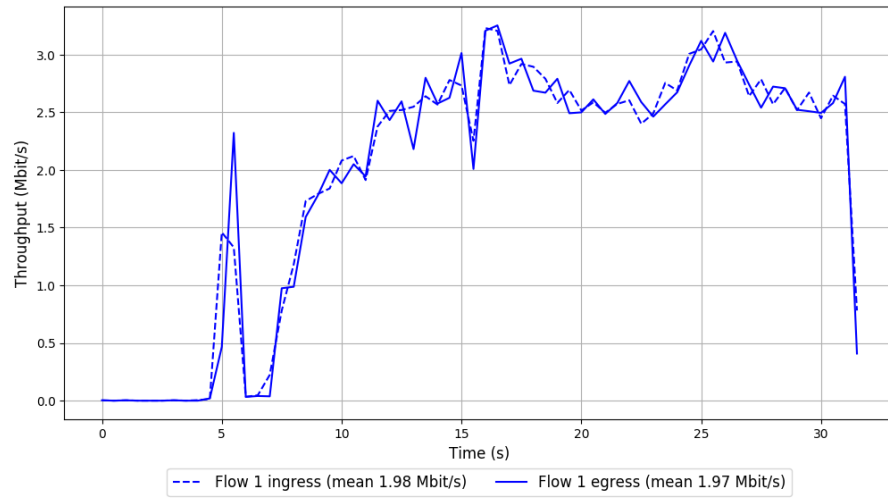
-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 86.862 ms

Loss rate: 0.62%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-08-16 19:23:06

End at: 2017-08-16 19:23:36

Below is generated by plot.py at 2017-08-16 23:11:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 86.352 ms

Loss rate: 0.86%

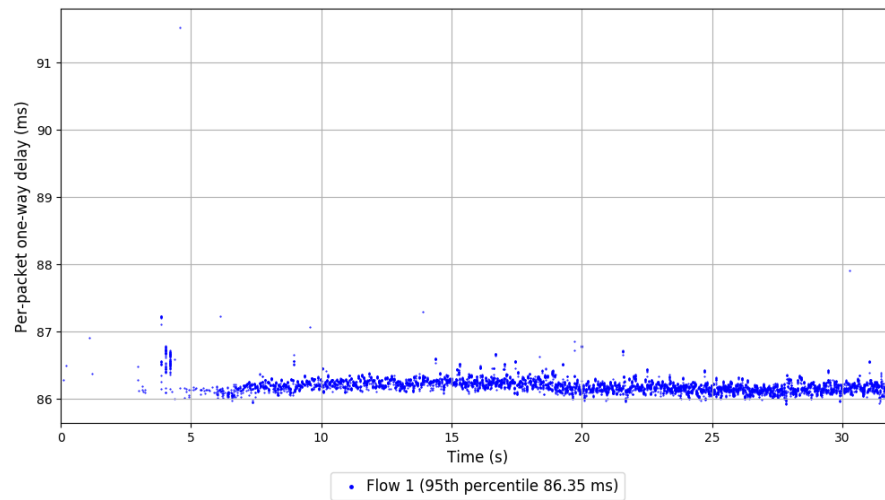
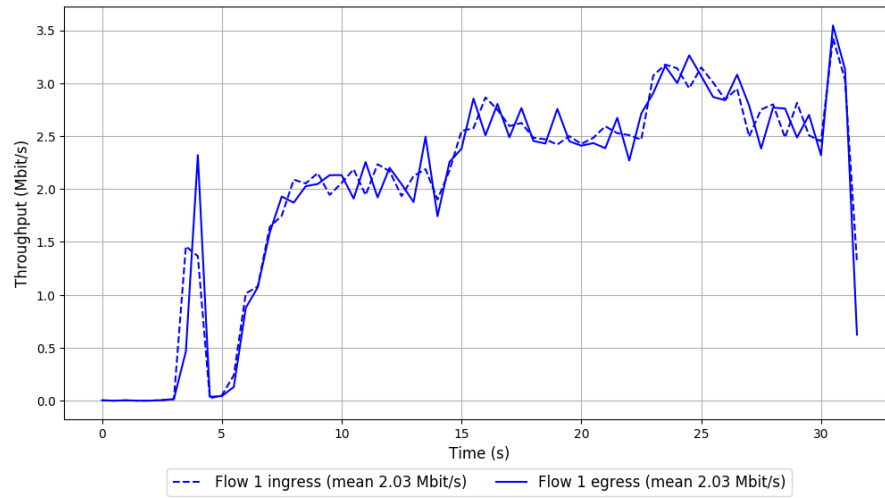
-- Flow 1:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 86.352 ms

Loss rate: 0.86%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-08-16 19:34:12

End at: 2017-08-16 19:34:42

Below is generated by plot.py at 2017-08-16 23:11:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 86.852 ms

Loss rate: 0.85%

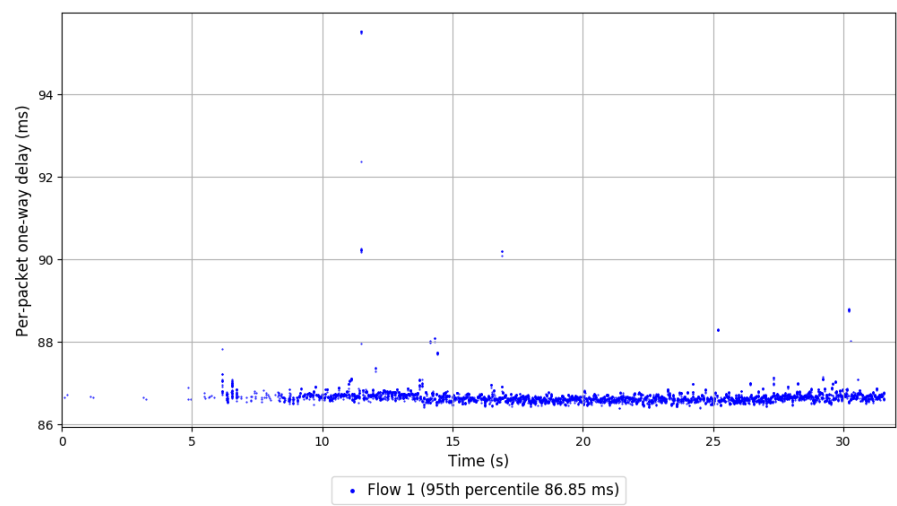
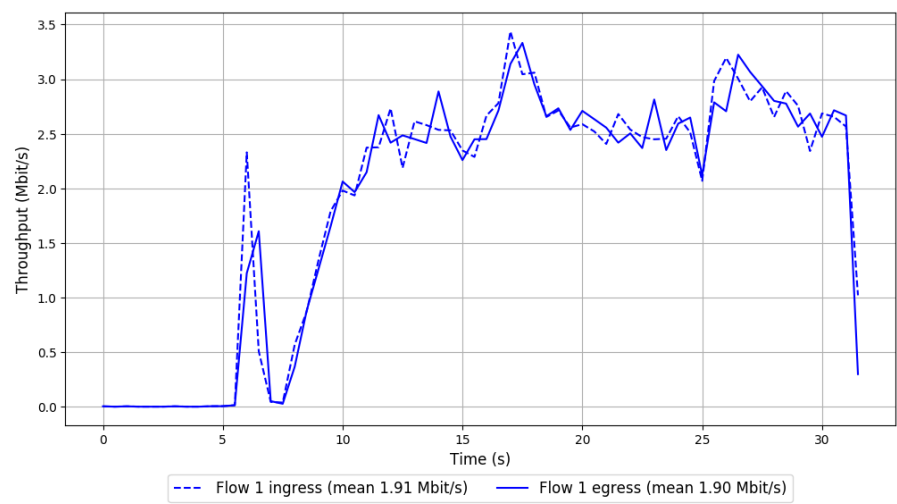
-- Flow 1:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 86.852 ms

Loss rate: 0.85%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-08-16 19:45:04

End at: 2017-08-16 19:45:34

Below is generated by plot.py at 2017-08-16 23:11:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 87.475 ms

Loss rate: 0.61%

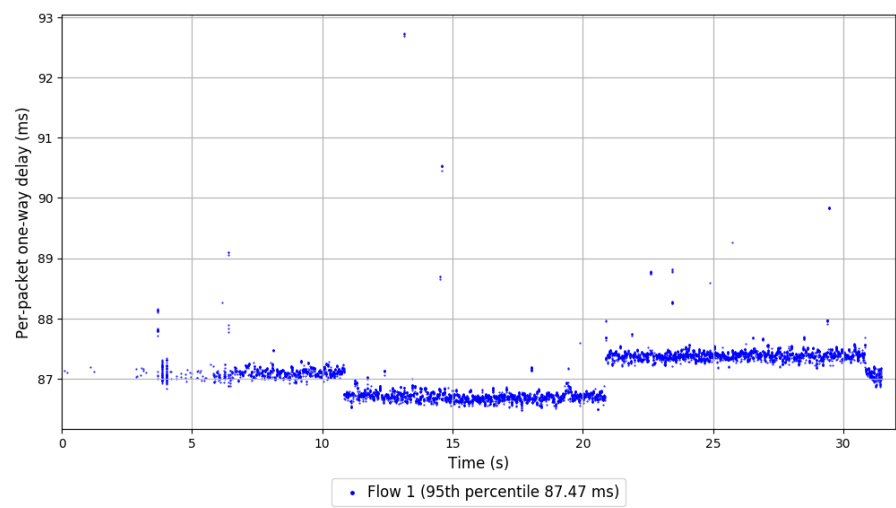
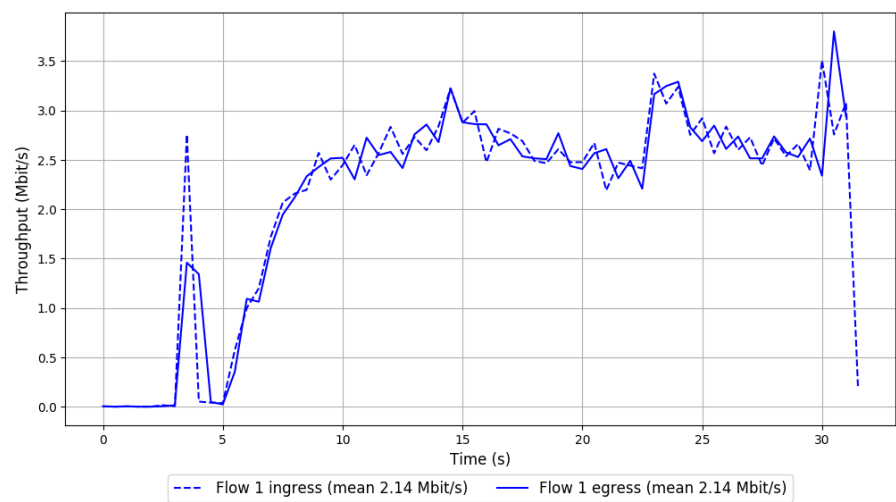
-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 87.475 ms

Loss rate: 0.61%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-08-16 19:56:06

End at: 2017-08-16 19:56:36

Below is generated by plot.py at 2017-08-16 23:11:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 87.116 ms

Loss rate: 0.77%

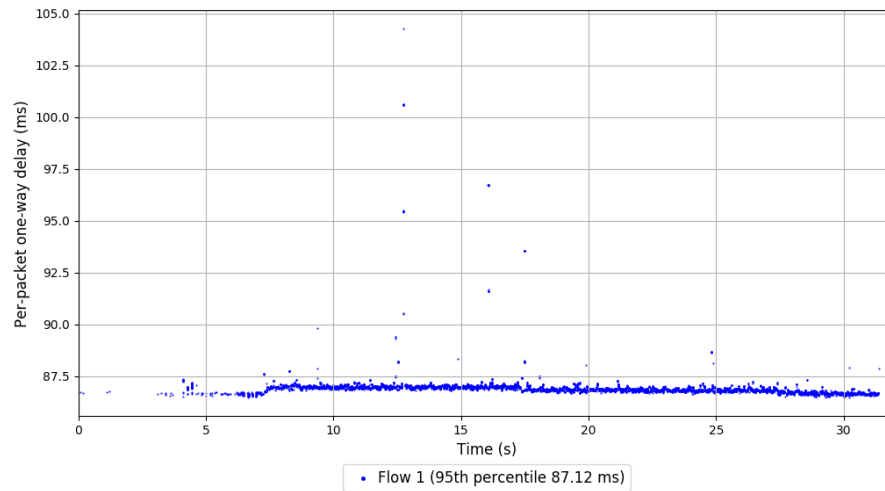
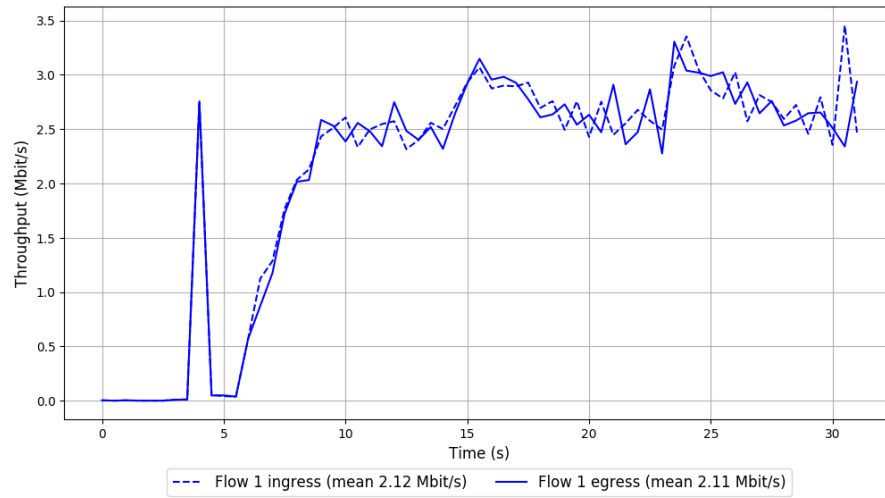
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 87.116 ms

Loss rate: 0.77%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-08-16 20:07:34

End at: 2017-08-16 20:08:04

Below is generated by plot.py at 2017-08-16 23:11:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 87.231 ms

Loss rate: 0.78%

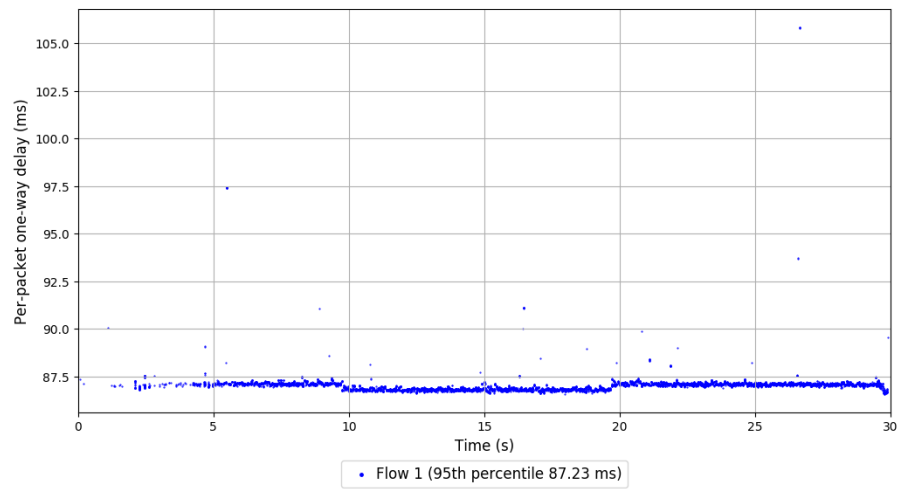
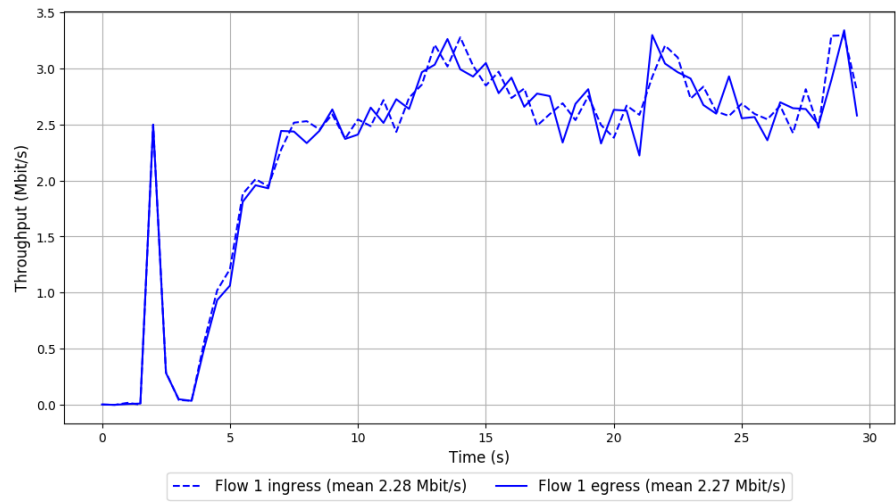
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 87.231 ms

Loss rate: 0.78%

Run 9: Report of WebRTC media — Data Link



```
Run 10: Statistics of WebRTC media

Start at: 2017-08-16 20:18:31
End at: 2017-08-16 20:19:01

# Below is generated by plot.py at 2017-08-16 23:11:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.12 Mbit/s
95th percentile per-packet one-way delay: 87.169 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 2.12 Mbit/s
95th percentile per-packet one-way delay: 87.169 ms
Loss rate: 0.85%
```

Run 10: Report of WebRTC media — Data Link

