

Pantheon Report

Generated at 2017-08-17 09:15:47 (UTC).

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

Repeated the test of 15 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

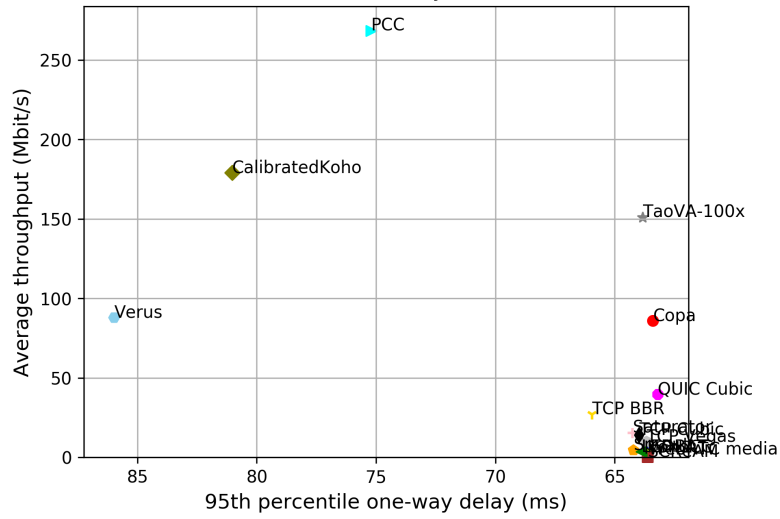
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

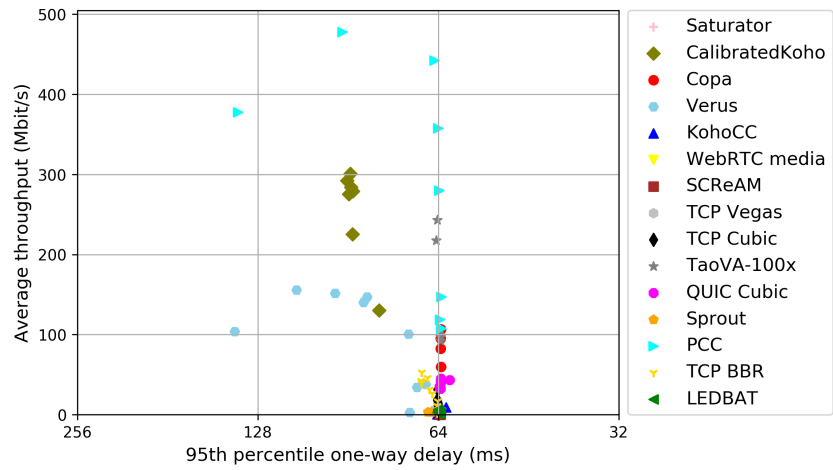
Git summary:

```
branch: master @ 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 Iowa Ethernet to GCE Tokyo Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	27.07	65.96	28.00
CalibratedKoho	10	179.14	81.03	28.14
Copa	4	85.93	63.40	0.20
TCP Cubic	8	14.18	63.98	1.62
KohoCC	9	3.27	63.64	63.56
LEDBAT	10	3.50	63.89	1.99
PCC	9	268.49	75.21	4.26
QUIC Cubic	9	39.59	63.20	0.04
Saturator	4	15.49	64.26	10.52
SCReAM	6	0.22	63.62	0.00
Sprout	10	4.64	64.22	8.90
TaoVA-100x	5	151.08	63.82	3.27
TCP Vegas	10	9.94	63.68	1.72
Verus	10	87.97	85.98	44.89
WebRTC media	10	2.00	63.60	0.00

Run 1: Statistics of TCP BBR

Start at: 2017-08-17 06:15:17

End at: 2017-08-17 06:15:47

Below is generated by plot.py at 2017-08-17 09:00:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.26 Mbit/s

95th percentile per-packet one-way delay: 65.541 ms

Loss rate: 27.26%

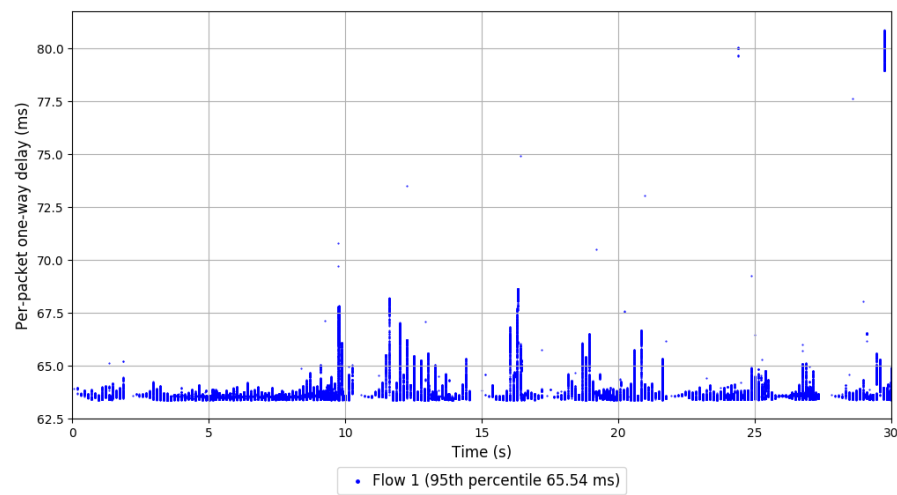
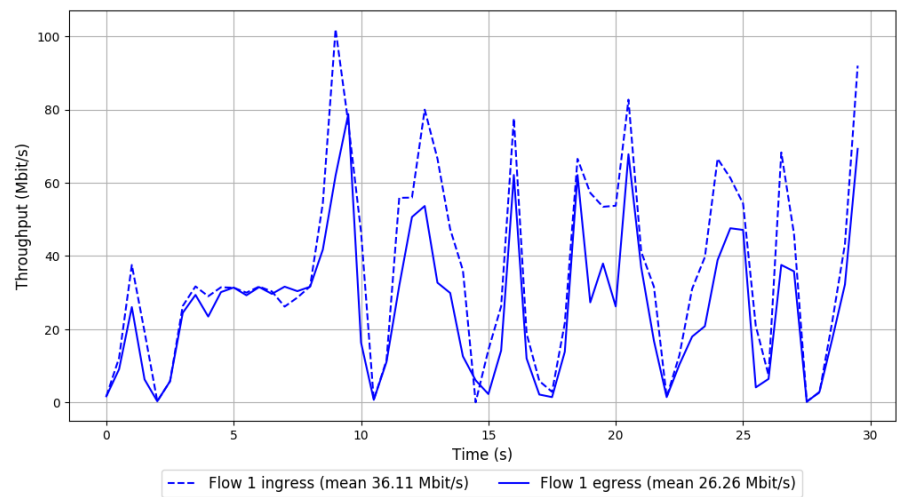
-- Flow 1:

Average throughput: 26.26 Mbit/s

95th percentile per-packet one-way delay: 65.541 ms

Loss rate: 27.26%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-08-17 06:25:36

End at: 2017-08-17 06:26:07

Below is generated by plot.py at 2017-08-17 09:00:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.16 Mbit/s

95th percentile per-packet one-way delay: 64.240 ms

Loss rate: 39.22%

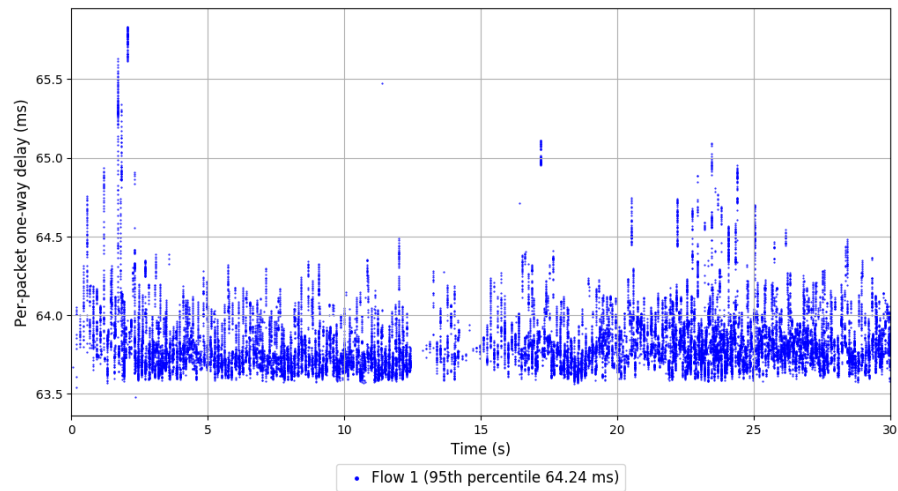
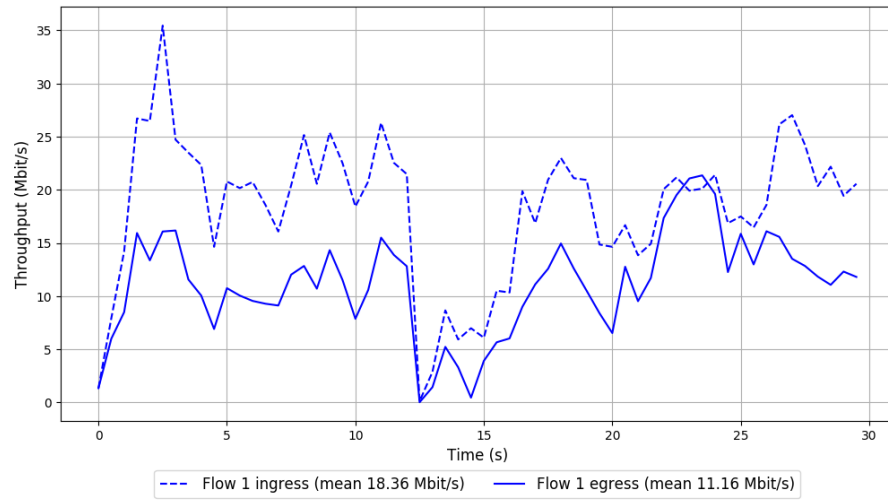
-- Flow 1:

Average throughput: 11.16 Mbit/s

95th percentile per-packet one-way delay: 64.240 ms

Loss rate: 39.22%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-08-17 06:36:10

End at: 2017-08-17 06:36:40

Below is generated by plot.py at 2017-08-17 09:01:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.82 Mbit/s

95th percentile per-packet one-way delay: 66.745 ms

Loss rate: 20.68%

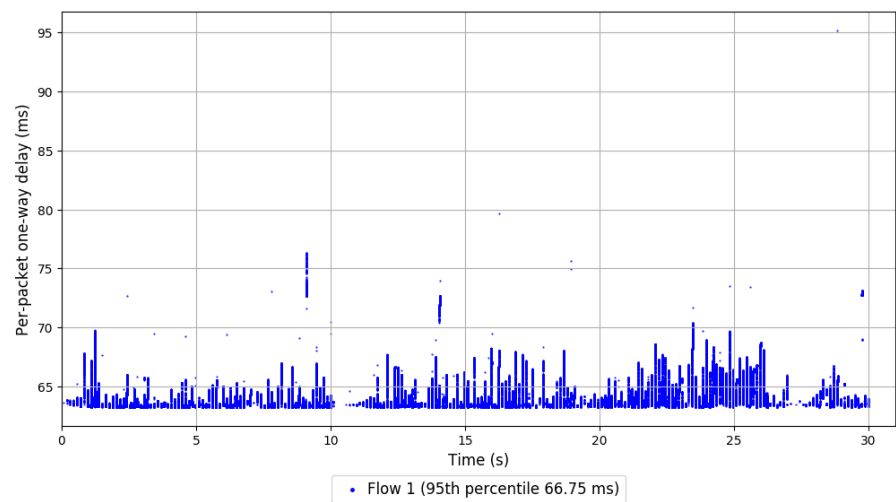
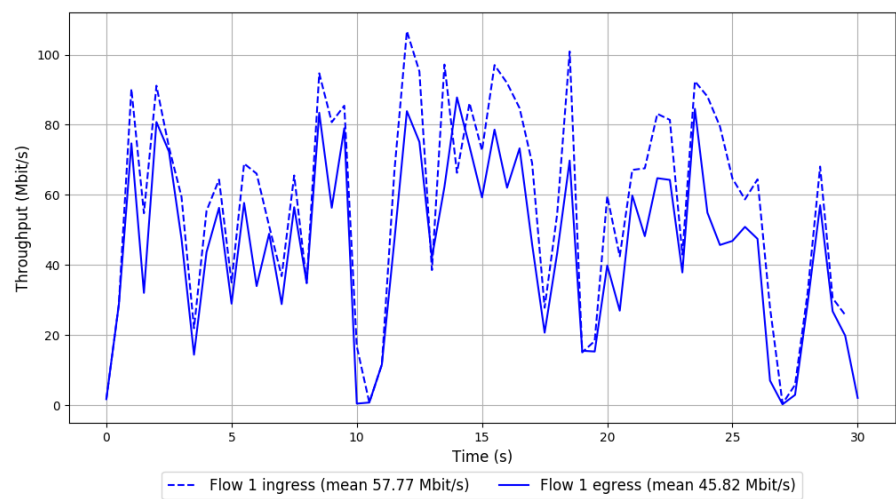
-- Flow 1:

Average throughput: 45.82 Mbit/s

95th percentile per-packet one-way delay: 66.745 ms

Loss rate: 20.68%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-08-17 06:46:46

End at: 2017-08-17 06:47:16

Below is generated by plot.py at 2017-08-17 09:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.28 Mbit/s

95th percentile per-packet one-way delay: 66.279 ms

Loss rate: 34.37%

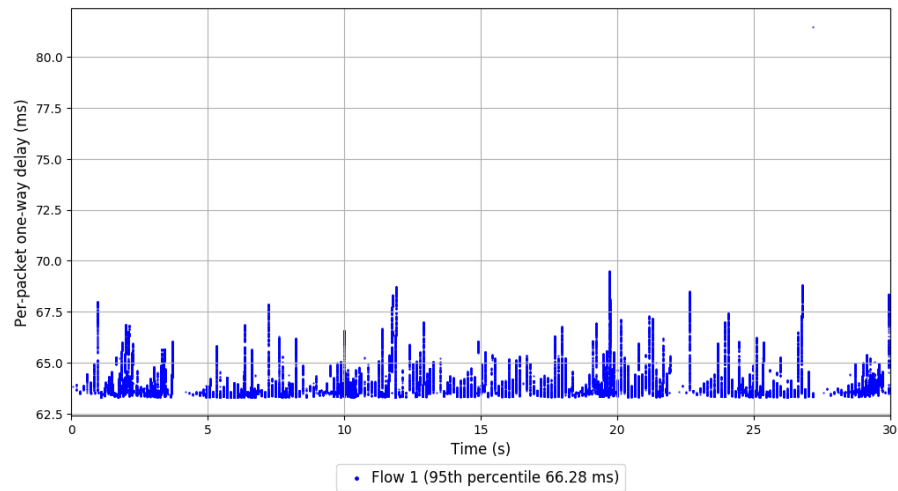
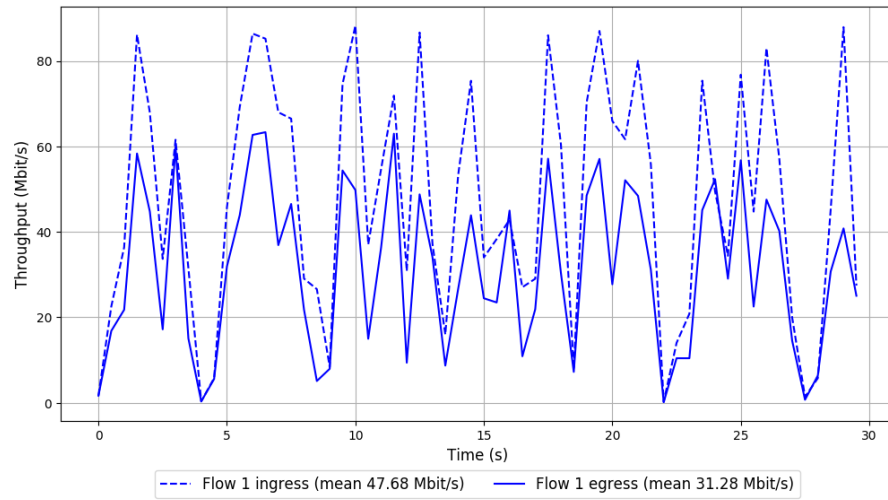
-- Flow 1:

Average throughput: 31.28 Mbit/s

95th percentile per-packet one-way delay: 66.279 ms

Loss rate: 34.37%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-08-17 06:57:18

End at: 2017-08-17 06:57:48

Below is generated by plot.py at 2017-08-17 09:01:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.73 Mbit/s

95th percentile per-packet one-way delay: 64.210 ms

Loss rate: 40.61%

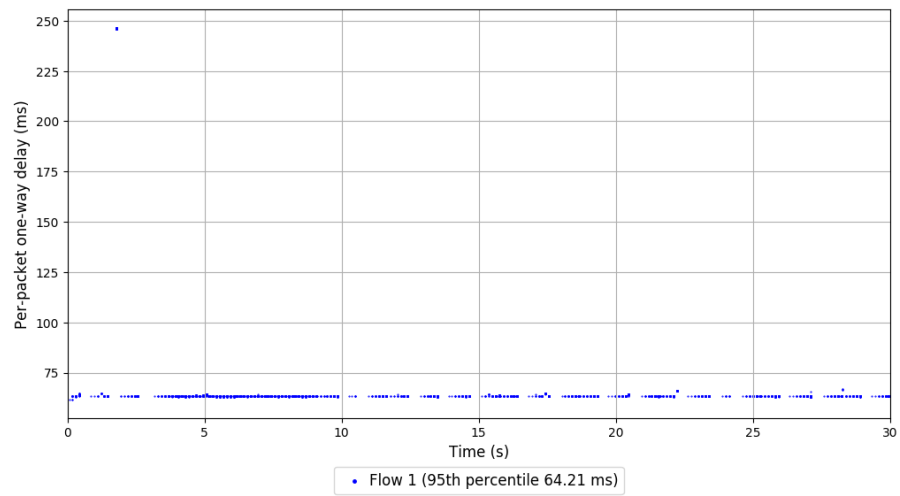
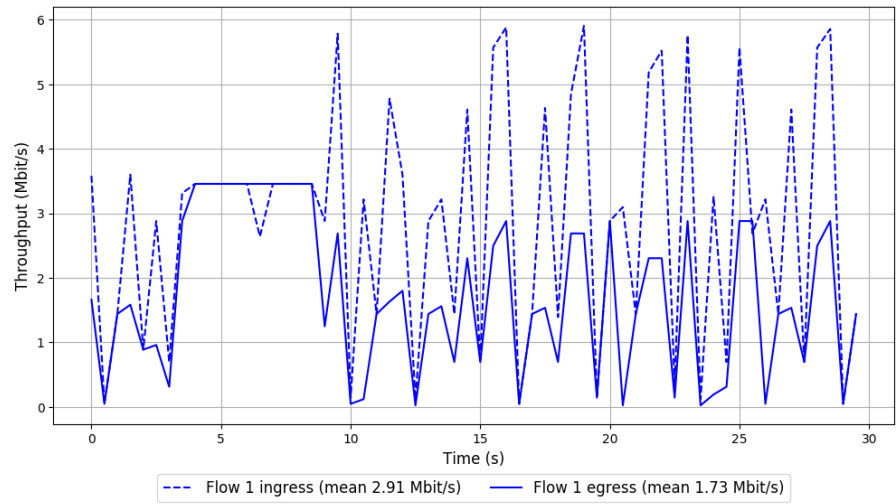
-- Flow 1:

Average throughput: 1.73 Mbit/s

95th percentile per-packet one-way delay: 64.210 ms

Loss rate: 40.61%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-08-17 07:07:28

End at: 2017-08-17 07:07:58

Below is generated by plot.py at 2017-08-17 09:01:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.51 Mbit/s

95th percentile per-packet one-way delay: 68.391 ms

Loss rate: 19.95%

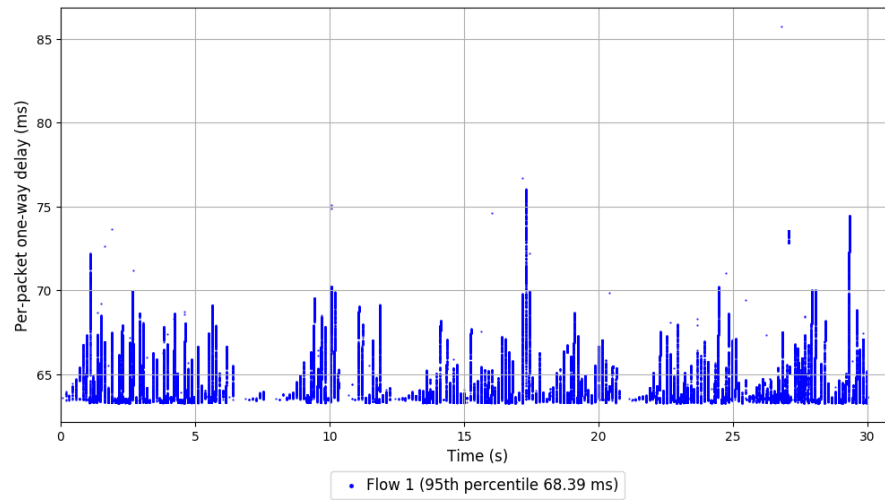
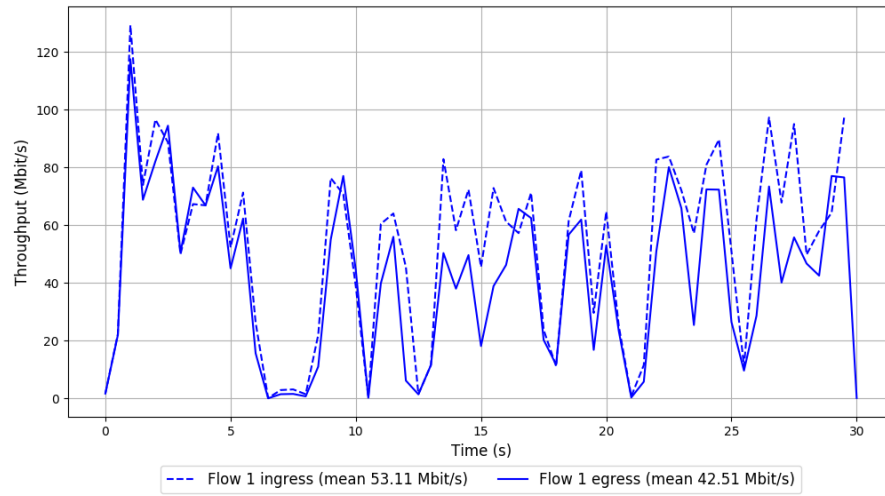
-- Flow 1:

Average throughput: 42.51 Mbit/s

95th percentile per-packet one-way delay: 68.391 ms

Loss rate: 19.95%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-08-17 07:17:43

End at: 2017-08-17 07:18:13

Below is generated by plot.py at 2017-08-17 09:01:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.75 Mbit/s

95th percentile per-packet one-way delay: 64.166 ms

Loss rate: 36.53%

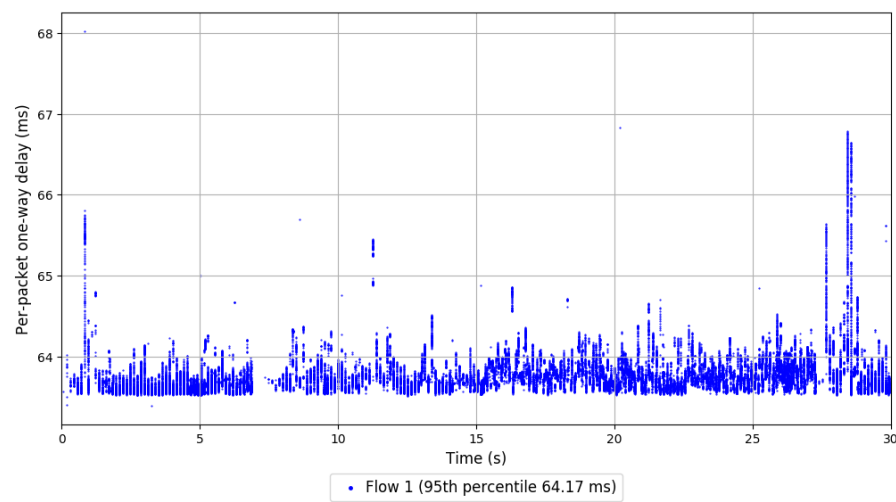
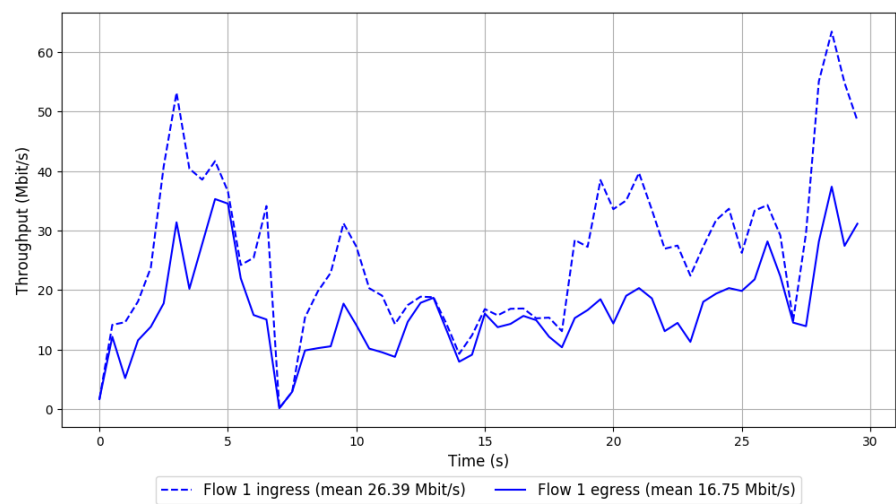
-- Flow 1:

Average throughput: 16.75 Mbit/s

95th percentile per-packet one-way delay: 64.166 ms

Loss rate: 36.53%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-08-17 07:28:11

End at: 2017-08-17 07:28:41

Below is generated by plot.py at 2017-08-17 09:01:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.63 Mbit/s

95th percentile per-packet one-way delay: 63.549 ms

Loss rate: 18.17%

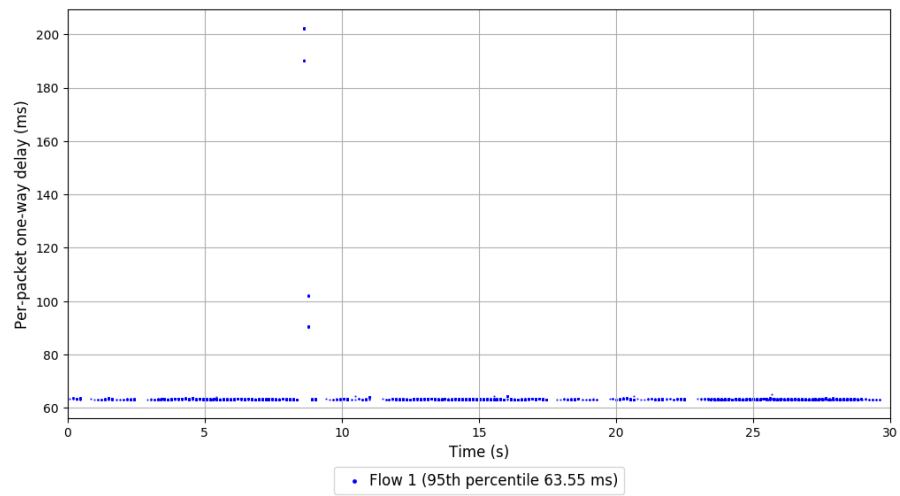
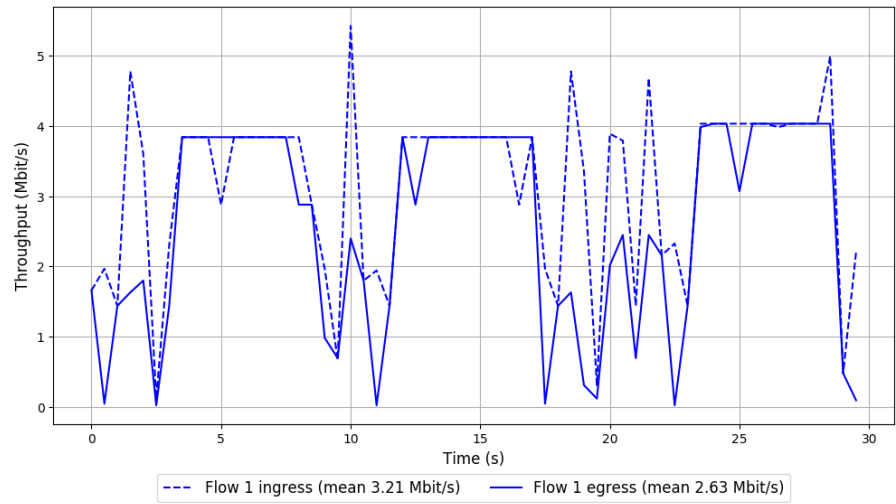
-- Flow 1:

Average throughput: 2.63 Mbit/s

95th percentile per-packet one-way delay: 63.549 ms

Loss rate: 18.17%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-08-17 07:38:28

End at: 2017-08-17 07:38:58

Below is generated by plot.py at 2017-08-17 09:01:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.81 Mbit/s

95th percentile per-packet one-way delay: 68.316 ms

Loss rate: 26.58%

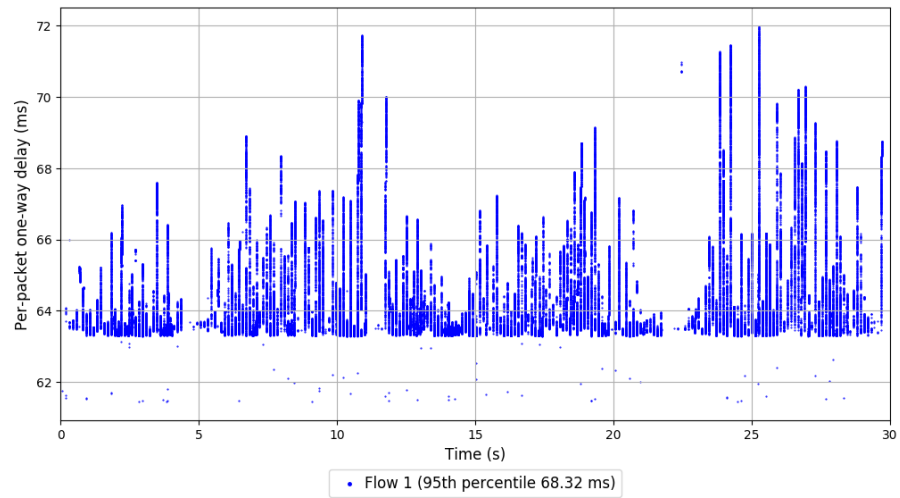
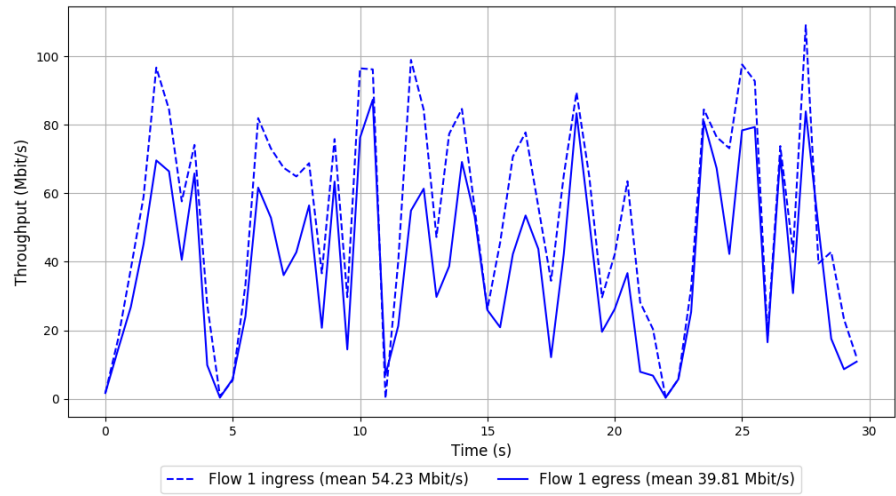
-- Flow 1:

Average throughput: 39.81 Mbit/s

95th percentile per-packet one-way delay: 68.316 ms

Loss rate: 26.58%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-08-17 07:48:30

End at: 2017-08-17 07:49:00

Below is generated by plot.py at 2017-08-17 09:01:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.79 Mbit/s

95th percentile per-packet one-way delay: 68.180 ms

Loss rate: 16.64%

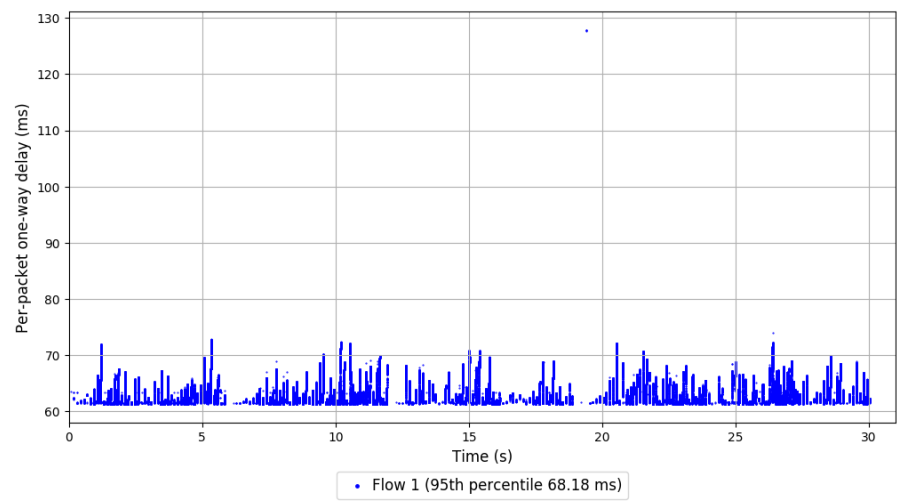
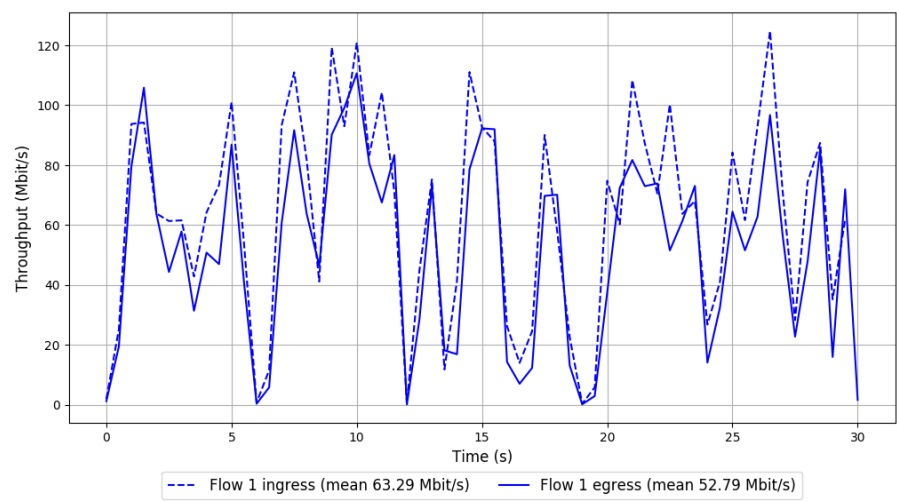
-- Flow 1:

Average throughput: 52.79 Mbit/s

95th percentile per-packet one-way delay: 68.180 ms

Loss rate: 16.64%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of CalibratedKoho

Start at: 2017-08-17 06:19:20

End at: 2017-08-17 06:19:50

Below is generated by plot.py at 2017-08-17 09:02:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 300.73 Mbit/s

95th percentile per-packet one-way delay: 89.697 ms

Loss rate: 1.02%

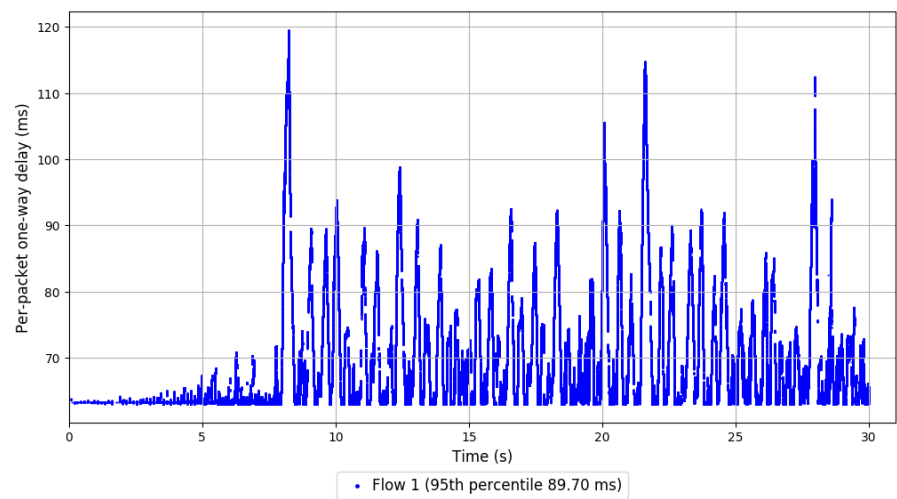
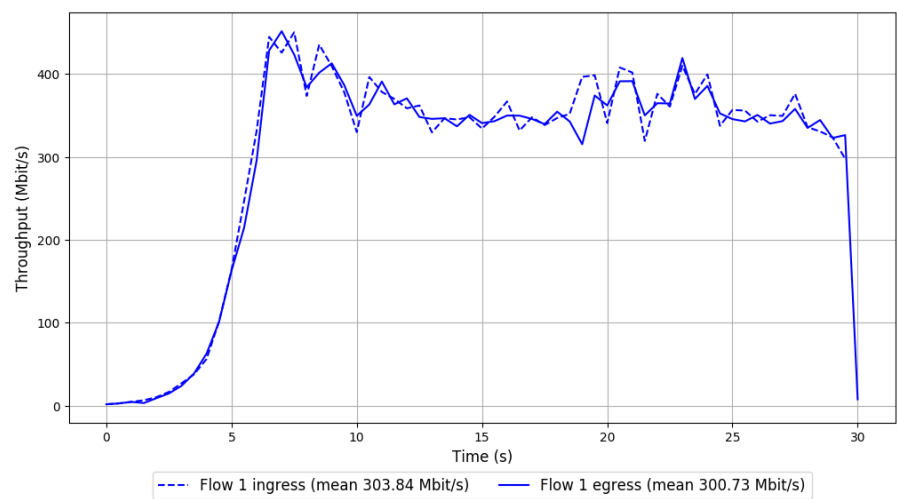
-- Flow 1:

Average throughput: 300.73 Mbit/s

95th percentile per-packet one-way delay: 89.697 ms

Loss rate: 1.02%

Run 1: Report of CalibratedKoho — Data Link



Run 2: Statistics of CalibratedKoho

Start at: 2017-08-17 06:29:59

End at: 2017-08-17 06:30:29

Below is generated by plot.py at 2017-08-17 09:02:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.34 Mbit/s

95th percentile per-packet one-way delay: 88.911 ms

Loss rate: 16.24%

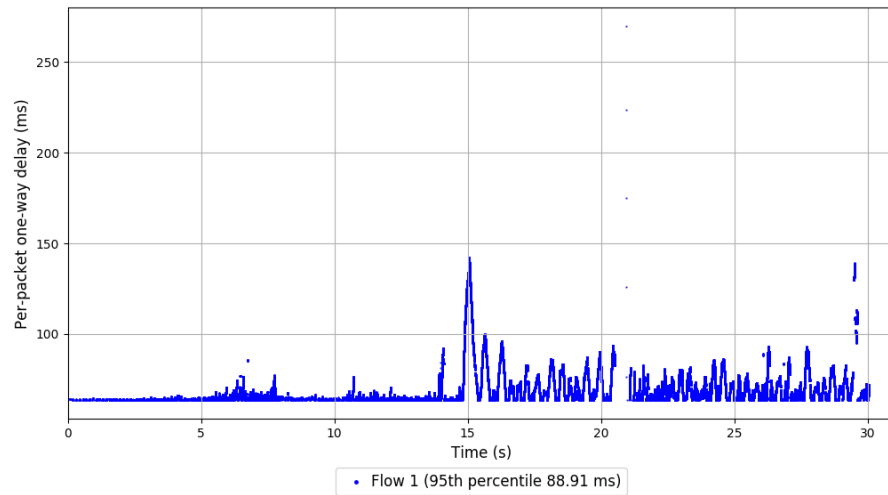
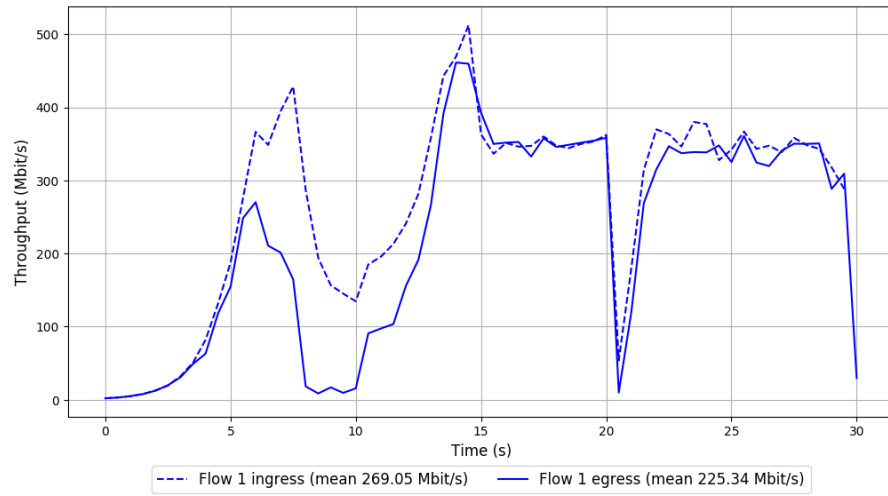
-- Flow 1:

Average throughput: 225.34 Mbit/s

95th percentile per-packet one-way delay: 88.911 ms

Loss rate: 16.24%

Run 2: Report of CalibratedKoho — Data Link



Run 3: Statistics of CalibratedKoho

Start at: 2017-08-17 06:40:33

End at: 2017-08-17 06:41:03

Below is generated by plot.py at 2017-08-17 09:02:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 279.16 Mbit/s

95th percentile per-packet one-way delay: 88.854 ms

Loss rate: 3.80%

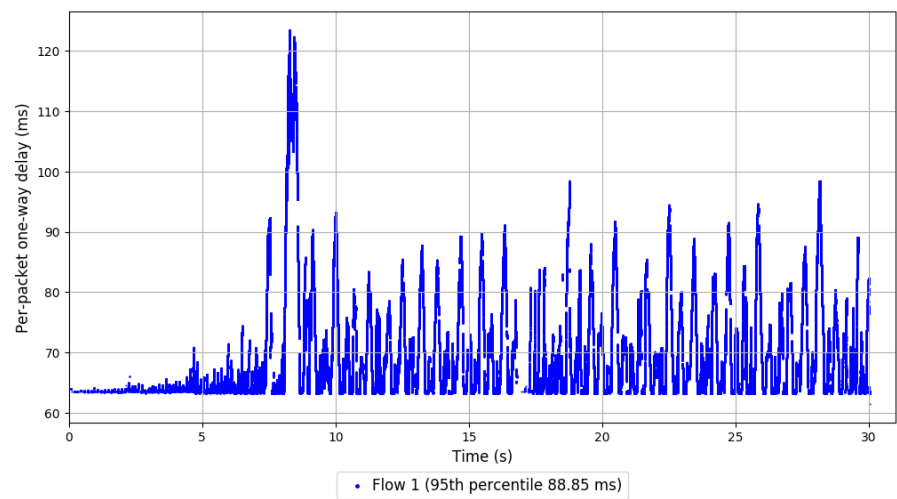
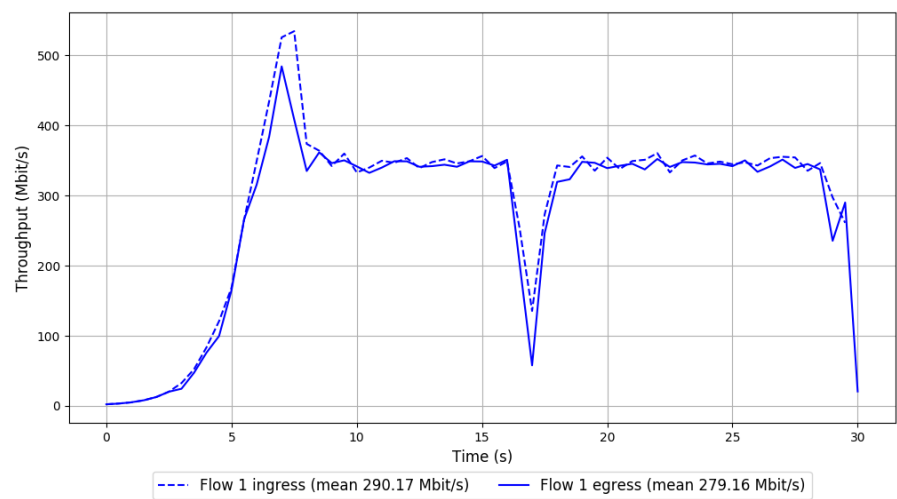
-- Flow 1:

Average throughput: 279.16 Mbit/s

95th percentile per-packet one-way delay: 88.854 ms

Loss rate: 3.80%

Run 3: Report of CalibratedKoho — Data Link



Run 4: Statistics of CalibratedKoho

Start at: 2017-08-17 06:50:50

End at: 2017-08-17 06:51:20

Below is generated by plot.py at 2017-08-17 09:02:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 292.01 Mbit/s

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

Loss rate: 2.78%

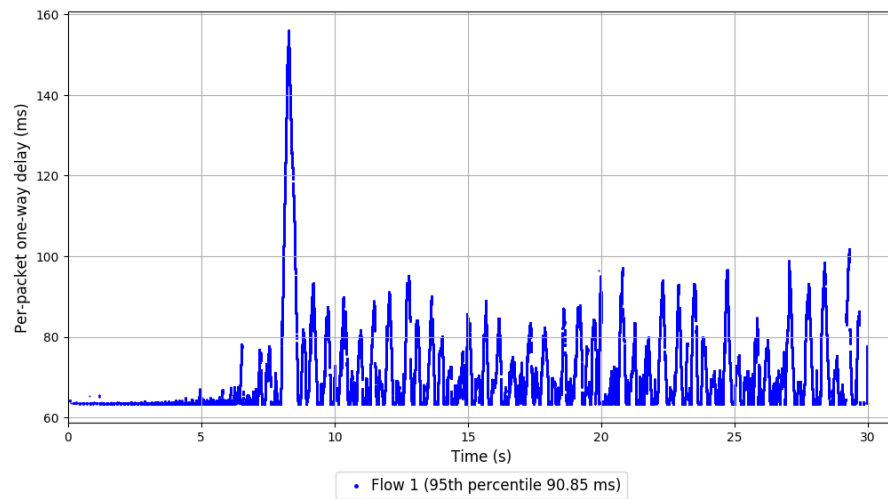
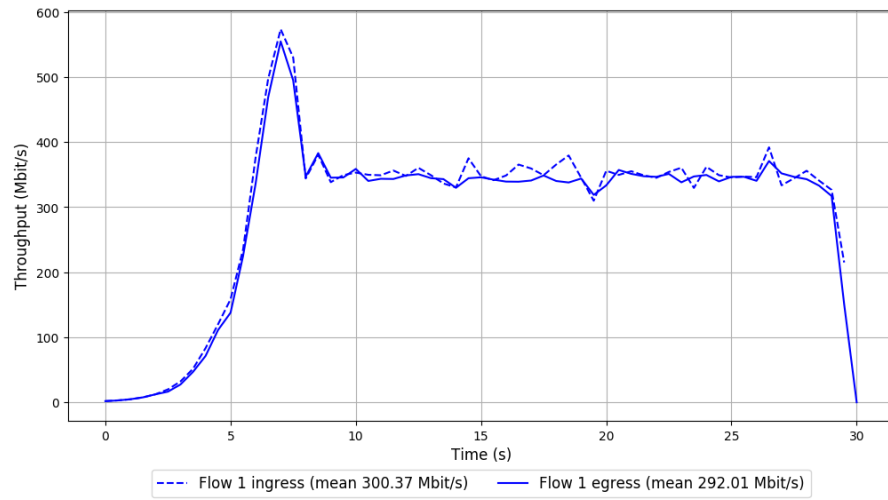
-- Flow 1:

Average throughput: 292.01 Mbit/s

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

Loss rate: 2.78%

Run 4: Report of CalibratedKoho — Data Link



Run 5: Statistics of CalibratedKoho

Start at: 2017-08-17 07:01:22

End at: 2017-08-17 07:01:52

Below is generated by plot.py at 2017-08-17 09:02:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.62 Mbit/s

95th percentile per-packet one-way delay: 64.111 ms

Loss rate: 69.50%

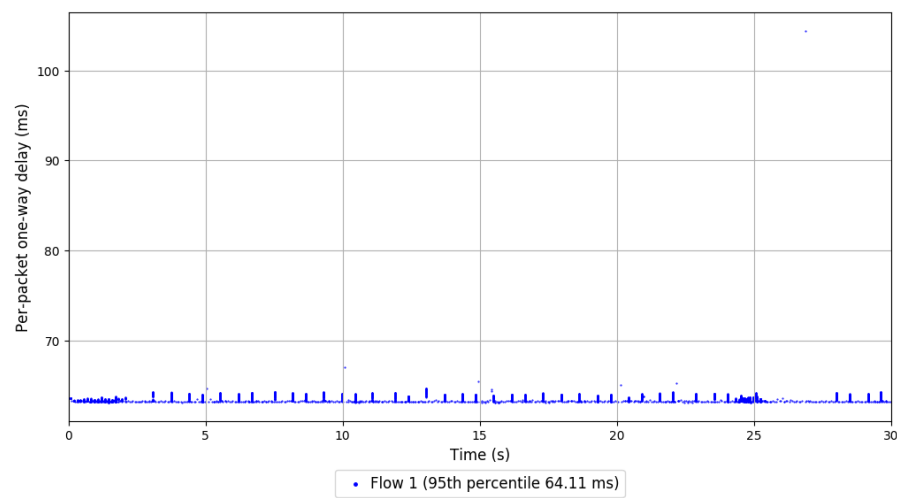
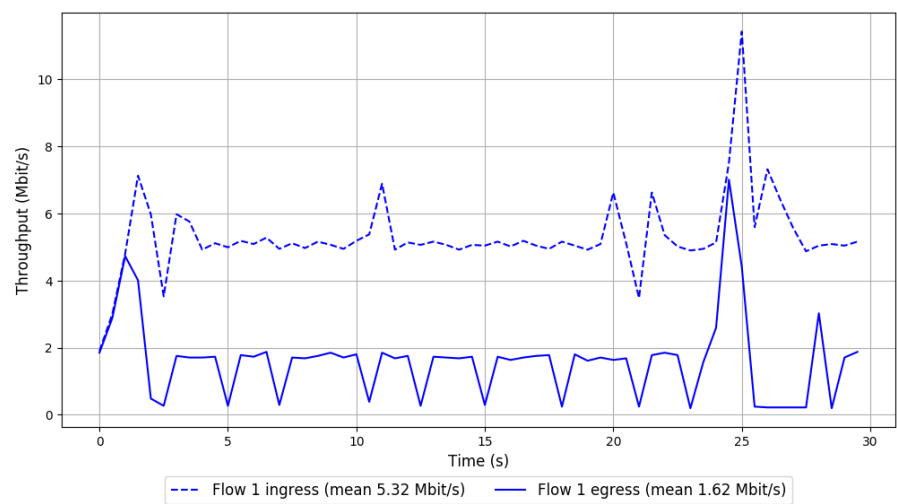
-- Flow 1:

Average throughput: 1.62 Mbit/s

95th percentile per-packet one-way delay: 64.111 ms

Loss rate: 69.50%

Run 5: Report of CalibratedKoho — Data Link



Run 6: Statistics of CalibratedKoho

Start at: 2017-08-17 07:11:44

End at: 2017-08-17 07:12:14

Below is generated by plot.py at 2017-08-17 09:03:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.04 Mbit/s

95th percentile per-packet one-way delay: 80.387 ms

Loss rate: 44.74%

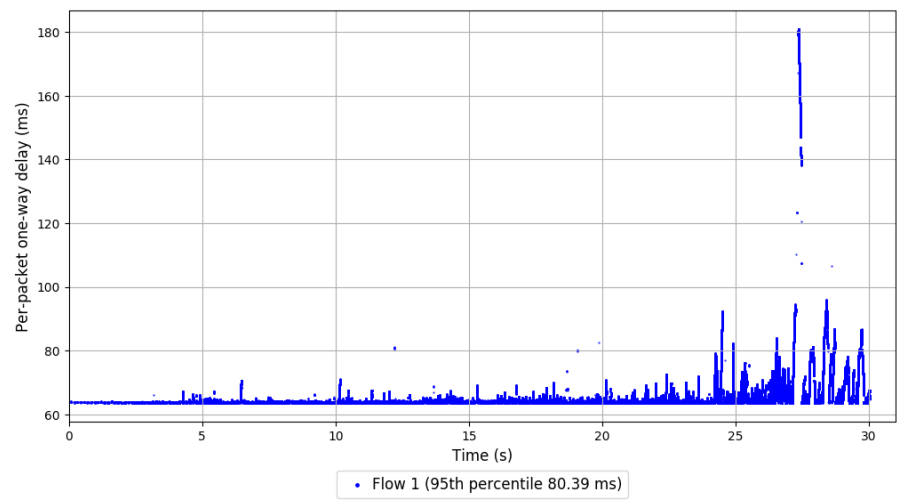
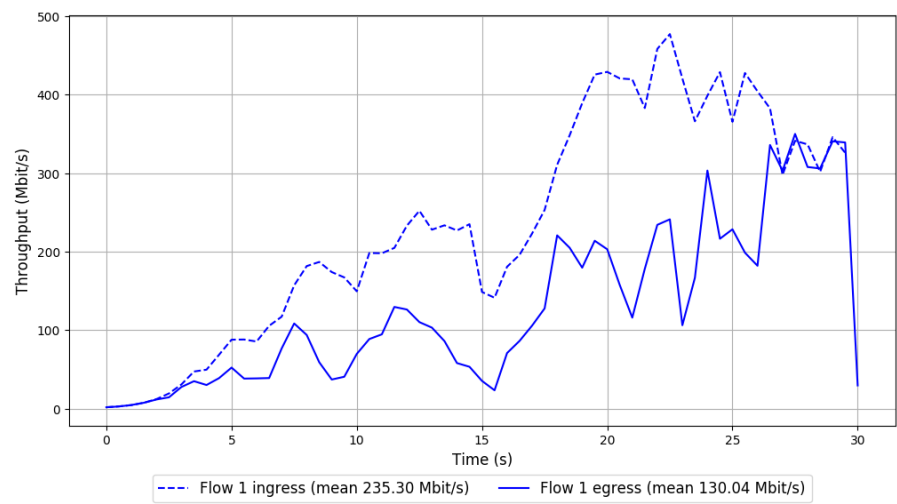
-- Flow 1:

Average throughput: 130.04 Mbit/s

95th percentile per-packet one-way delay: 80.387 ms

Loss rate: 44.74%

Run 6: Report of CalibratedKoho — Data Link



Run 7: Statistics of CalibratedKoho

Start at: 2017-08-17 07:21:56

End at: 2017-08-17 07:22:26

Below is generated by plot.py at 2017-08-17 09:03:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 275.21 Mbit/s

95th percentile per-packet one-way delay: 90.167 ms

Loss rate: 2.33%

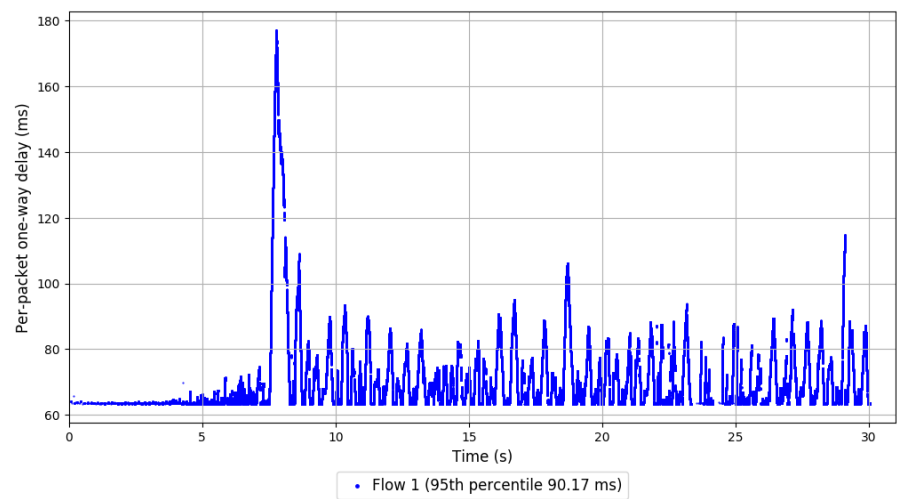
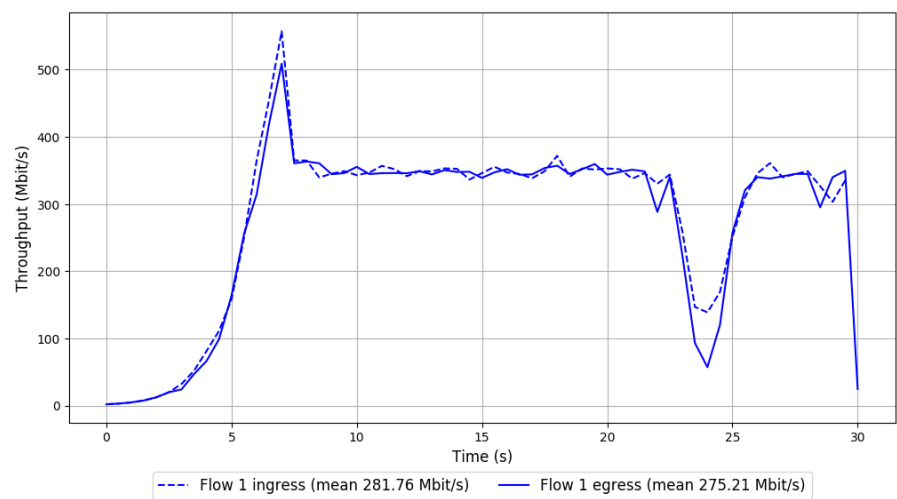
-- Flow 1:

Average throughput: 275.21 Mbit/s

95th percentile per-packet one-way delay: 90.167 ms

Loss rate: 2.33%

Run 7: Report of CalibratedKoho — Data Link



Run 8: Statistics of CalibratedKoho

Start at: 2017-08-17 07:32:16

End at: 2017-08-17 07:32:46

Below is generated by plot.py at 2017-08-17 09:04:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 284.05 Mbit/s

95th percentile per-packet one-way delay: 89.521 ms

Loss rate: 1.75%

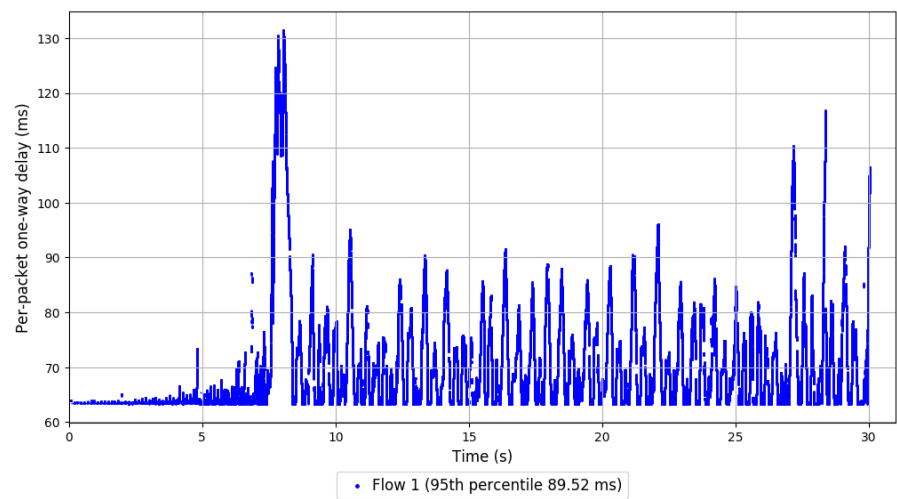
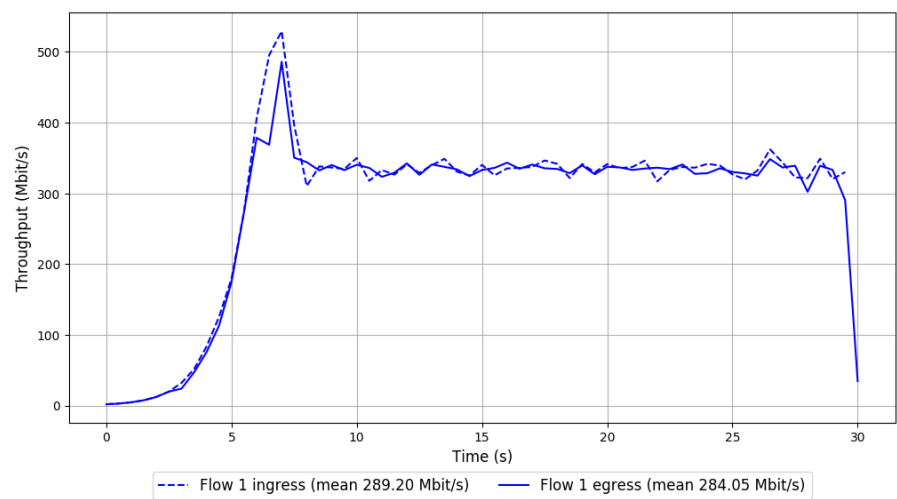
-- Flow 1:

Average throughput: 284.05 Mbit/s

95th percentile per-packet one-way delay: 89.521 ms

Loss rate: 1.75%

Run 8: Report of CalibratedKoho — Data Link



Run 9: Statistics of CalibratedKoho

Start at: 2017-08-17 07:42:31

End at: 2017-08-17 07:43:01

Below is generated by plot.py at 2017-08-17 09:04:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.62 Mbit/s

95th percentile per-packet one-way delay: 63.794 ms

Loss rate: 69.66%

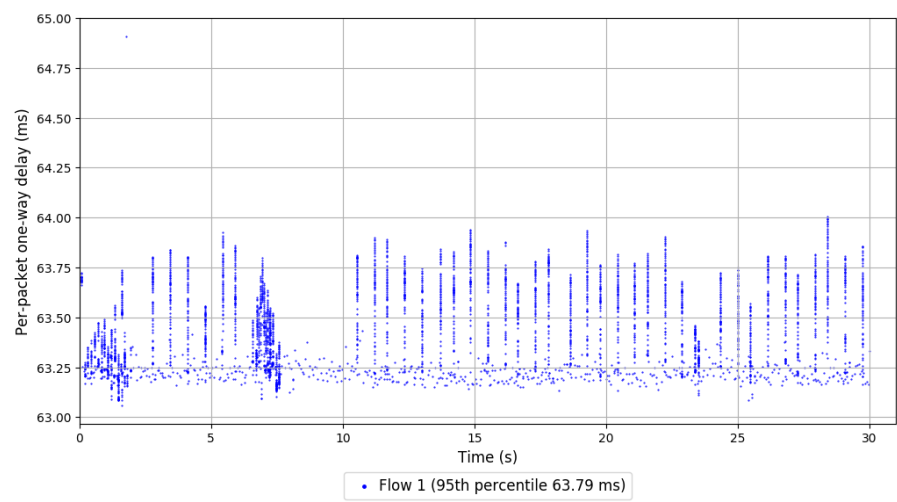
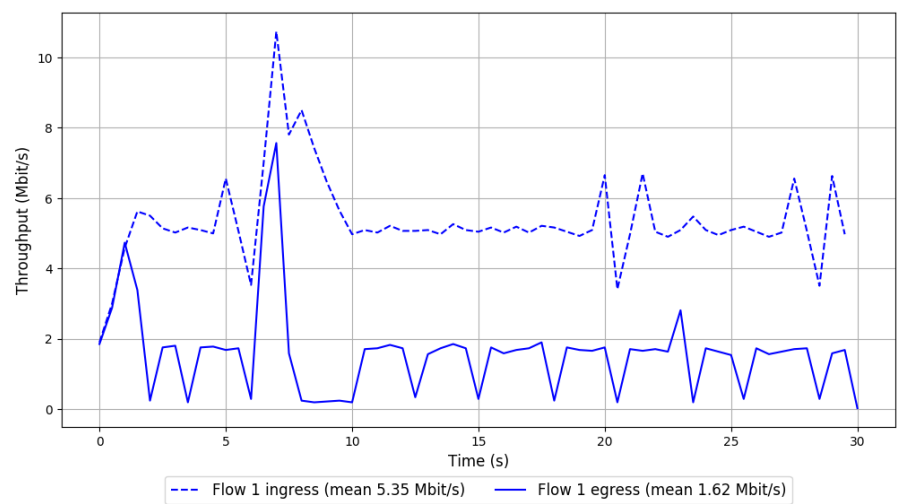
-- Flow 1:

Average throughput: 1.62 Mbit/s

95th percentile per-packet one-way delay: 63.794 ms

Loss rate: 69.66%

Run 9: Report of CalibratedKoho — Data Link



Run 10: Statistics of CalibratedKoho

Start at: 2017-08-17 07:52:33

End at: 2017-08-17 07:53:03

Below is generated by plot.py at 2017-08-17 09:04:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.61 Mbit/s

95th percentile per-packet one-way delay: 64.031 ms

Loss rate: 69.56%

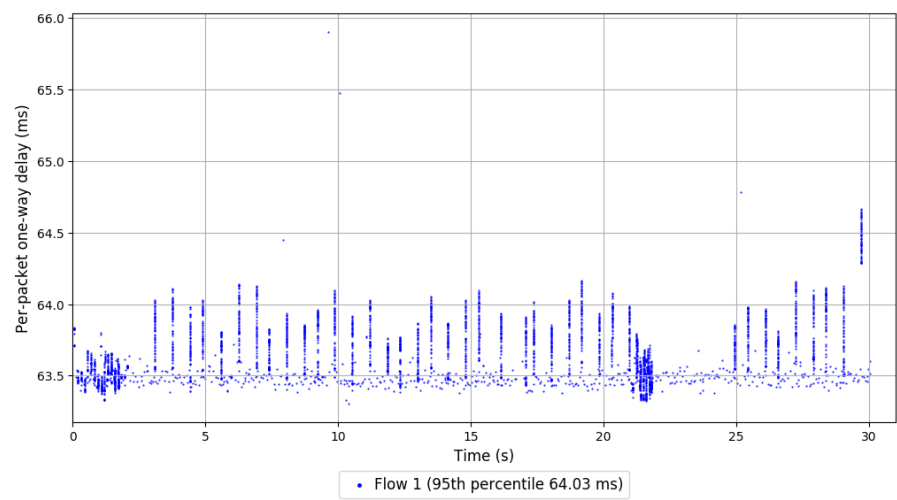
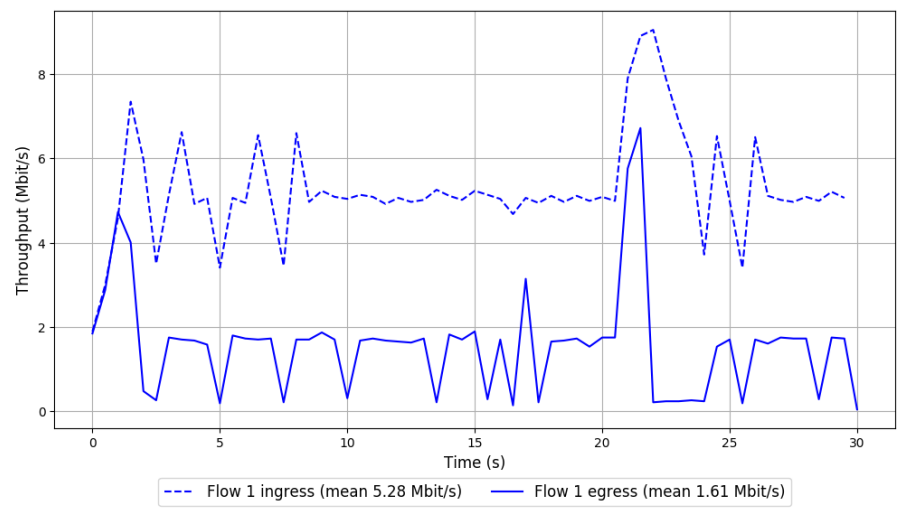
-- Flow 1:

Average throughput: 1.61 Mbit/s

95th percentile per-packet one-way delay: 64.031 ms

Loss rate: 69.56%

Run 10: Report of CalibratedKoho — Data Link



Run 1: Statistics of Copa

Start at: 2017-08-17 06:22:21

End at: 2017-08-17 06:22:51

Below is generated by plot.py at 2017-08-17 09:04:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.51 Mbit/s

95th percentile per-packet one-way delay: 63.374 ms

Loss rate: 0.17%

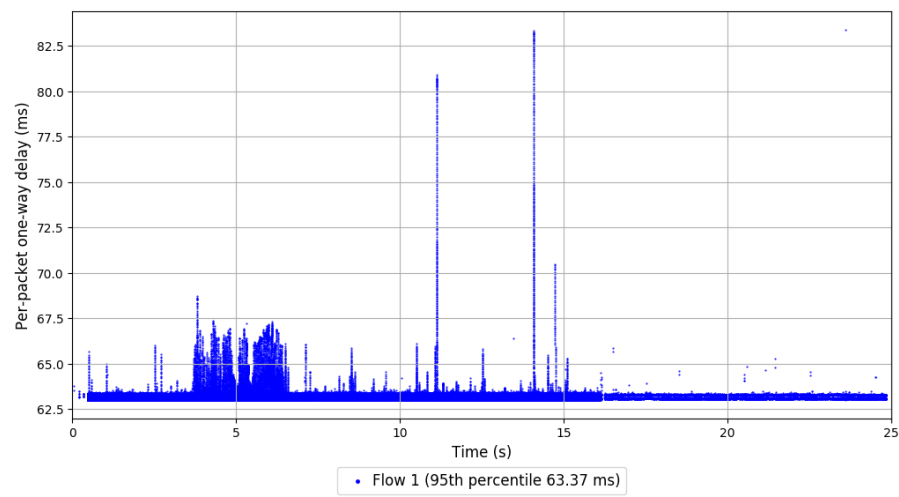
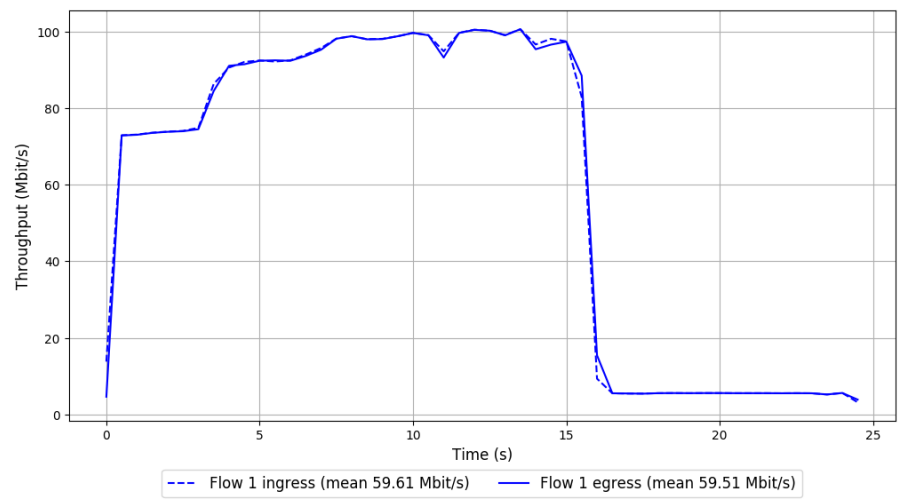
-- Flow 1:

Average throughput: 59.51 Mbit/s

95th percentile per-packet one-way delay: 63.374 ms

Loss rate: 0.17%

Run 1: Report of Copa — Data Link

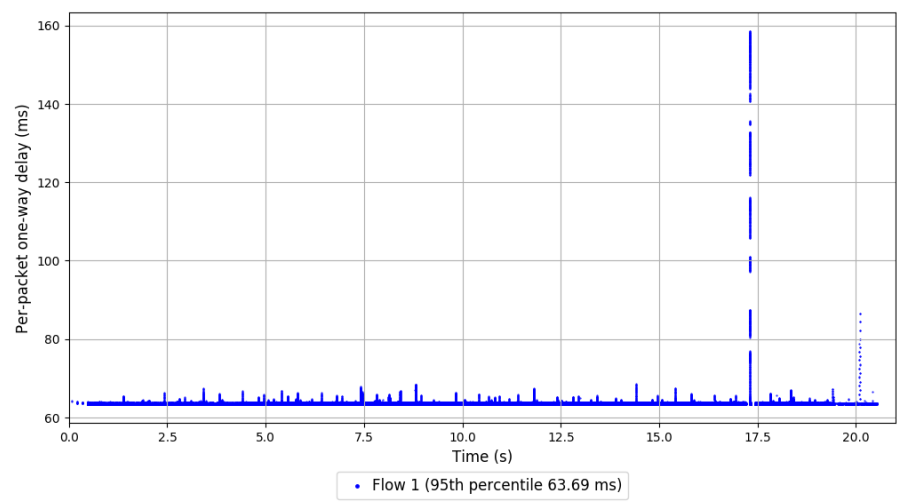
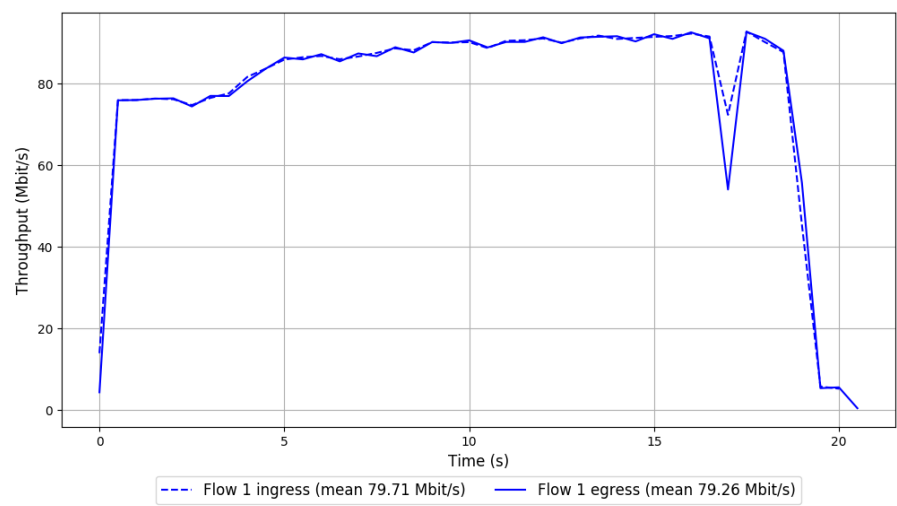


Run 2: Statistics of Copa

Start at: 2017-08-17 06:32:53

End at: 2017-08-17 06:33:23

Run 2: Report of Copa — Data Link

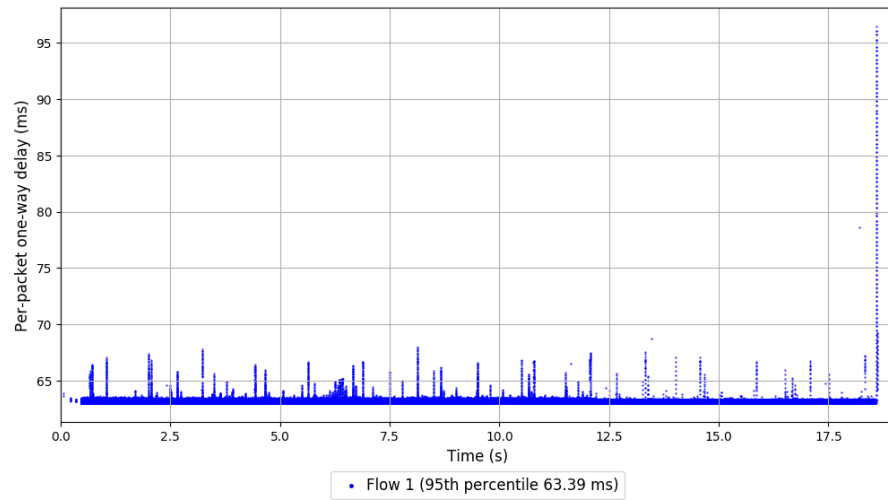
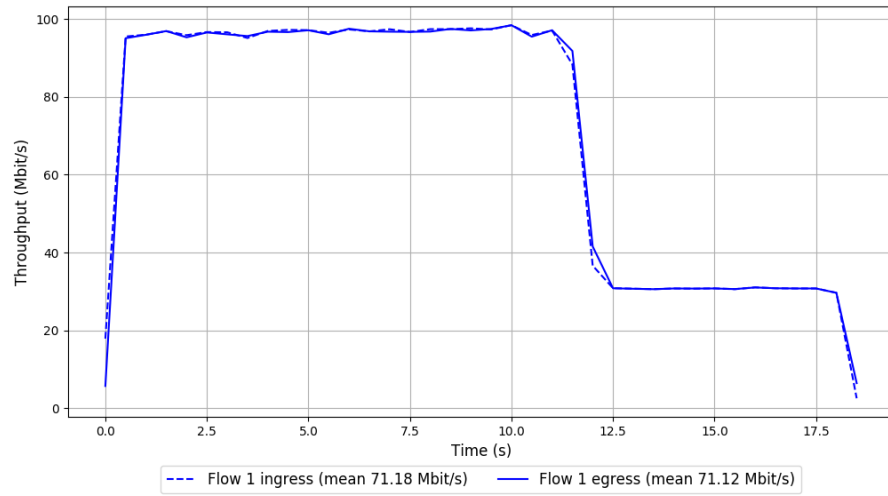


Run 3: Statistics of Copa

Start at: 2017-08-17 06:43:28

End at: 2017-08-17 06:43:59

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-08-17 06:53:54

End at: 2017-08-17 06:54:24

Below is generated by plot.py at 2017-08-17 09:04:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.31 Mbit/s

95th percentile per-packet one-way delay: 63.409 ms

Loss rate: 0.16%

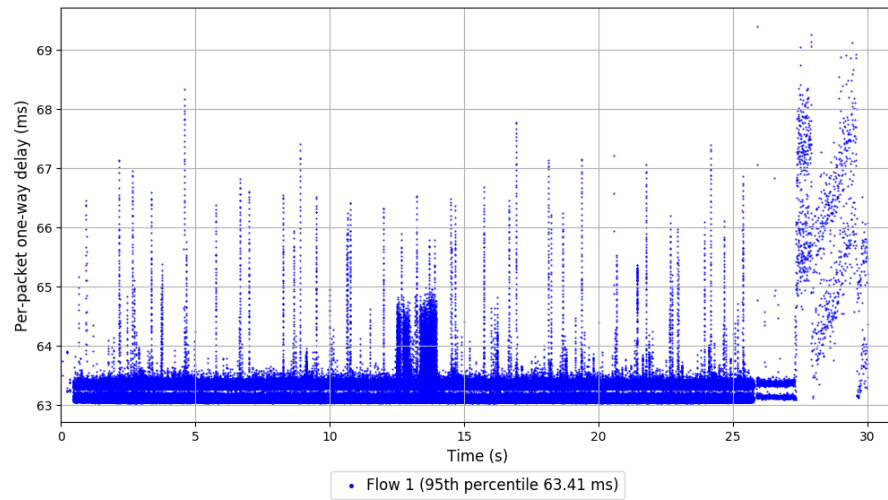
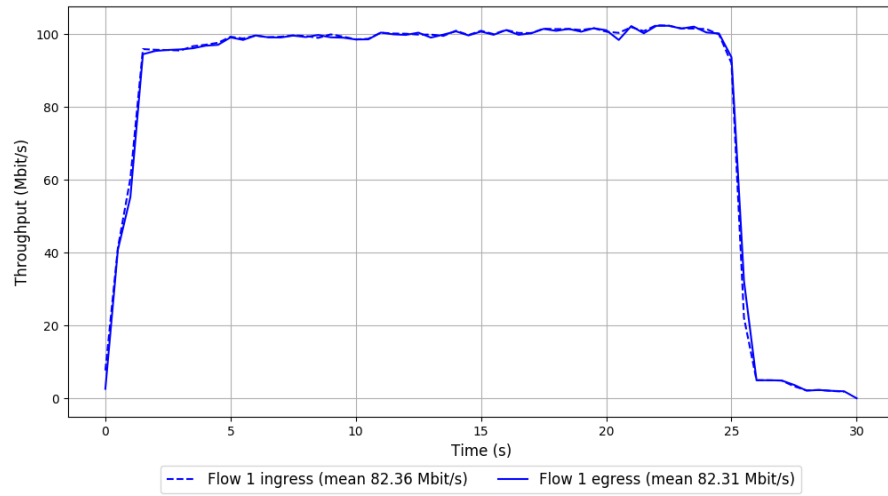
-- Flow 1:

Average throughput: 82.31 Mbit/s

95th percentile per-packet one-way delay: 63.409 ms

Loss rate: 0.16%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-08-17 07:04:05

End at: 2017-08-17 07:04:36

Below is generated by plot.py at 2017-08-17 09:04:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.32 Mbit/s

95th percentile per-packet one-way delay: 63.434 ms

Loss rate: 0.41%

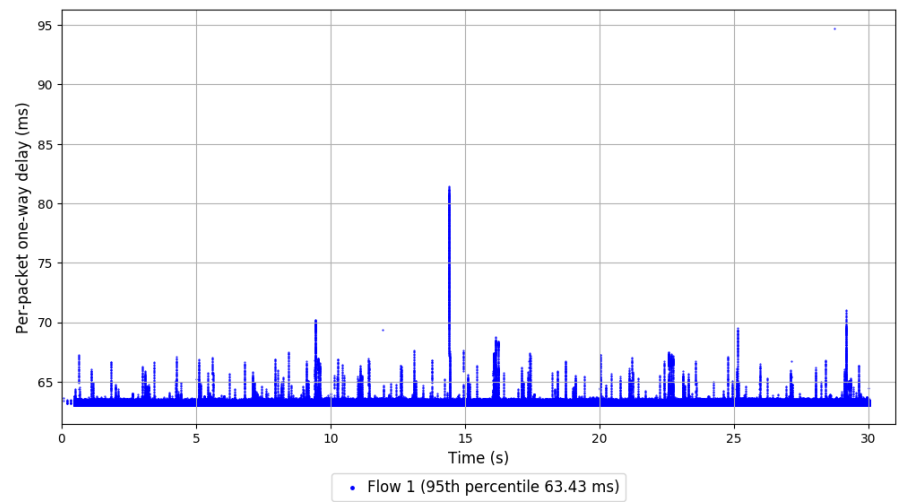
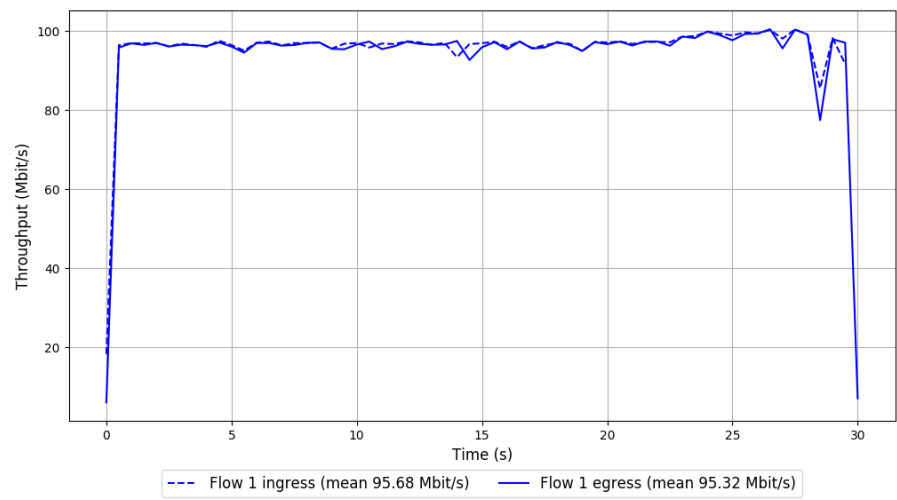
-- Flow 1:

Average throughput: 95.32 Mbit/s

95th percentile per-packet one-way delay: 63.434 ms

Loss rate: 0.41%

Run 5: Report of Copa — Data Link

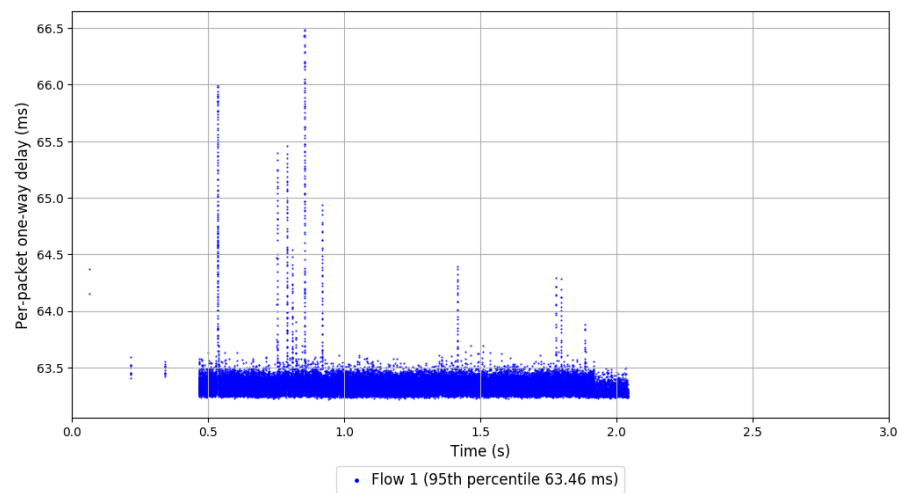
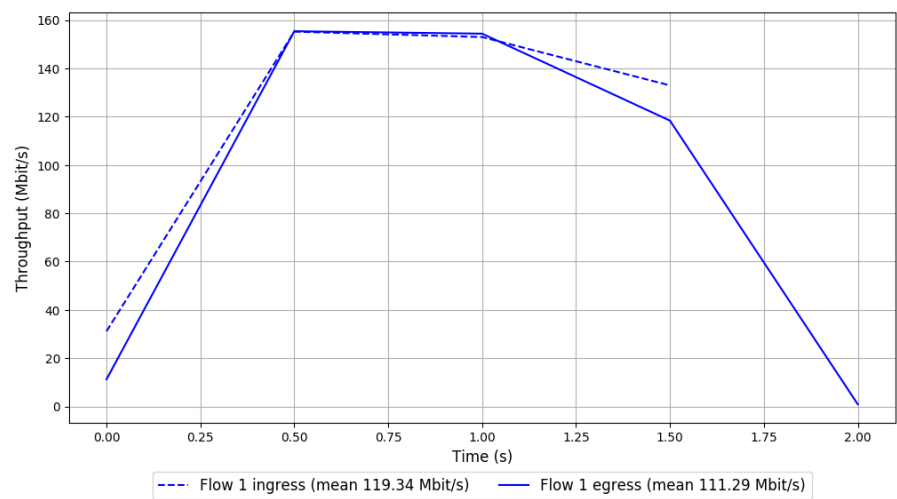


Run 6: Statistics of Copa

Start at: 2017-08-17 07:14:30

End at: 2017-08-17 07:15:00

Run 6: Report of Copa — Data Link

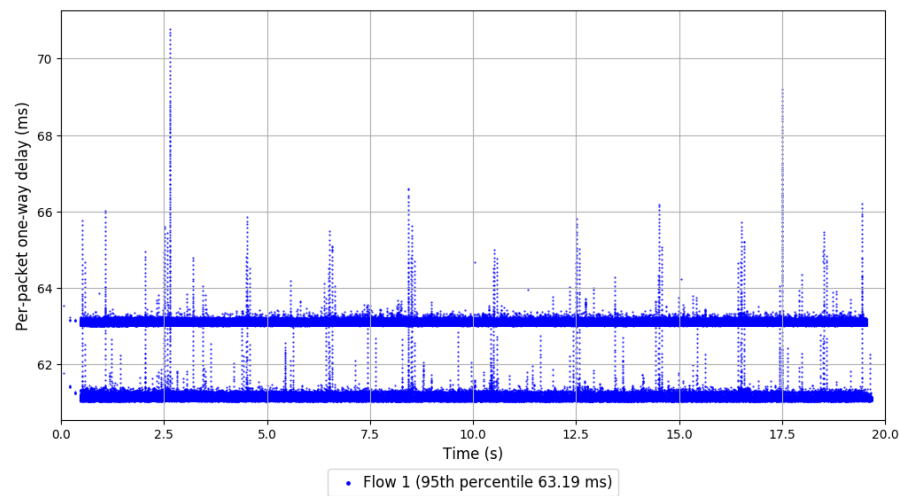
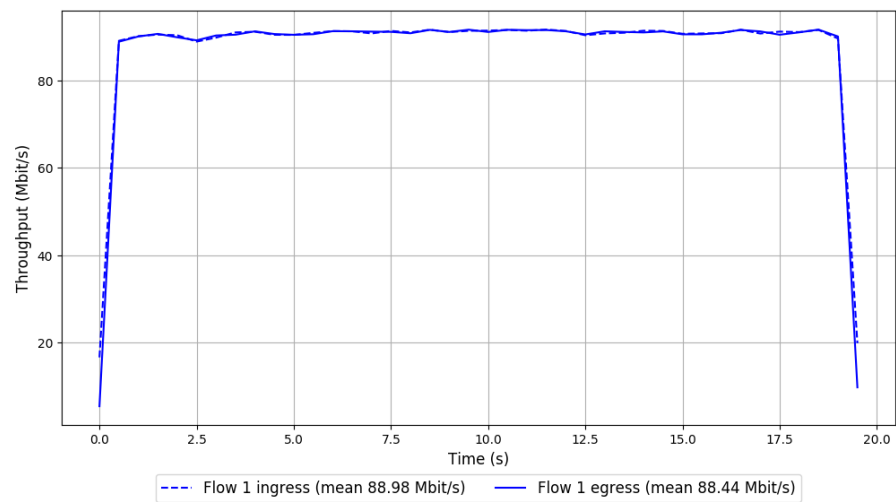


Run 7: Statistics of Copa

Start at: 2017-08-17 07:24:54

End at: 2017-08-17 07:25:24

Run 7: Report of Copa — Data Link

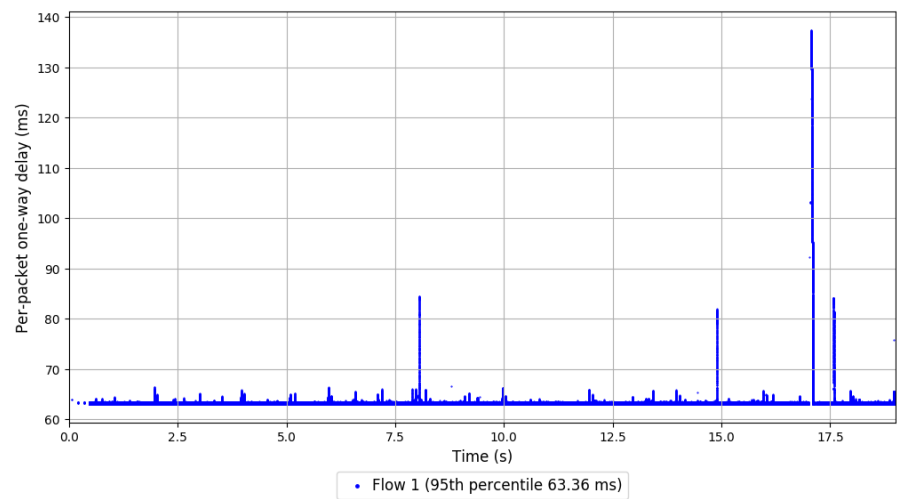
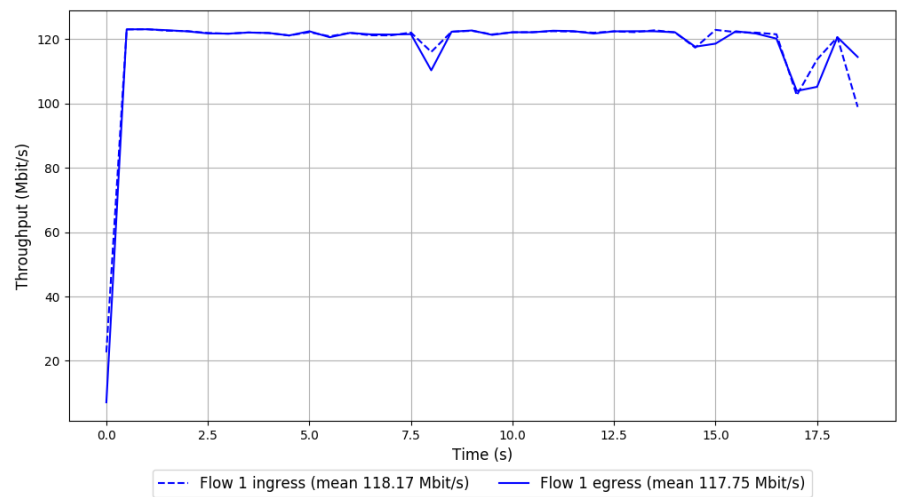


Run 8: Statistics of Copa

Start at: 2017-08-17 07:35:10

End at: 2017-08-17 07:35:40

Run 8: Report of Copa — Data Link

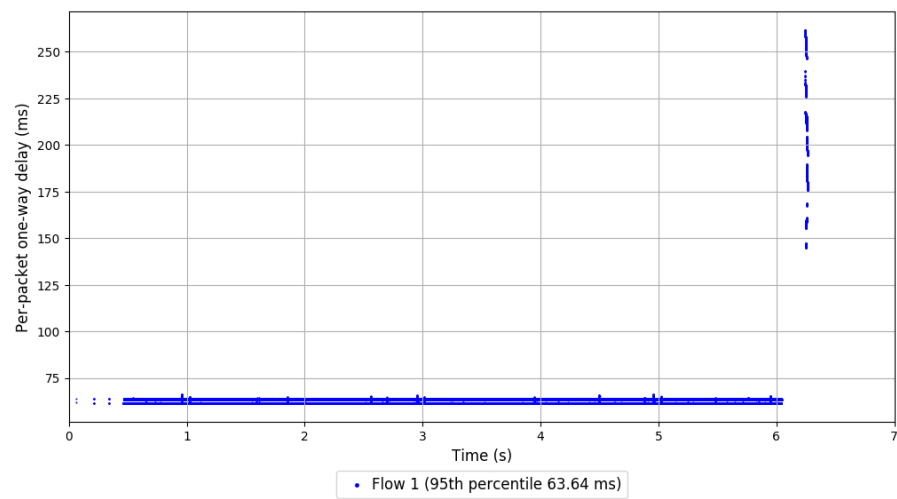
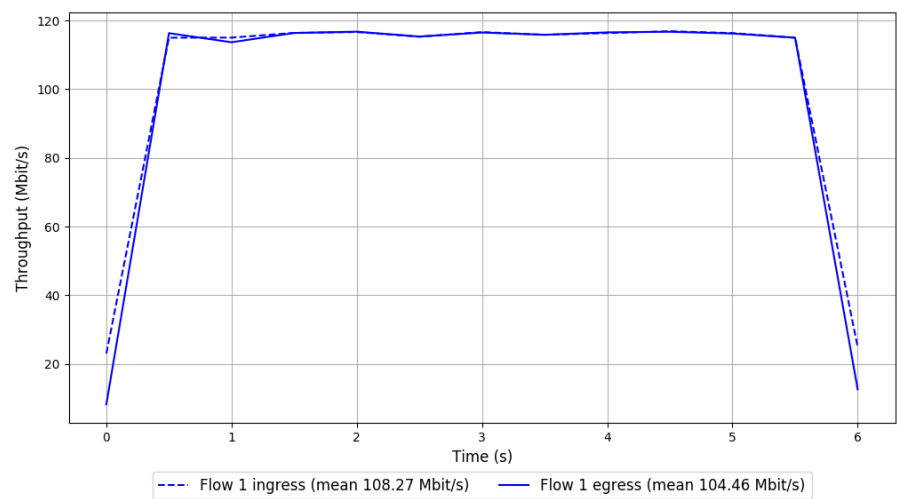


Run 9: Statistics of Copa

Start at: 2017-08-17 07:45:14

End at: 2017-08-17 07:45:44

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-08-17 07:55:06

End at: 2017-08-17 07:55:36

Below is generated by plot.py at 2017-08-17 09:05:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.57 Mbit/s

95th percentile per-packet one-way delay: 63.386 ms

Loss rate: 0.04%

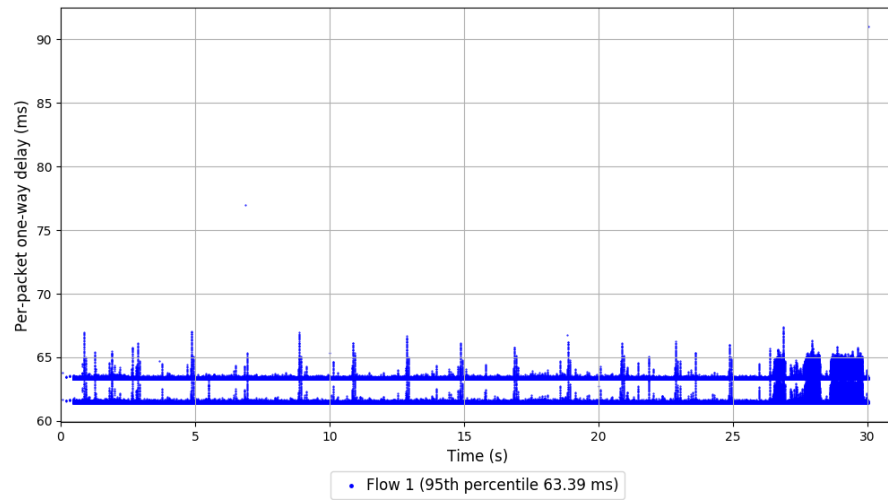
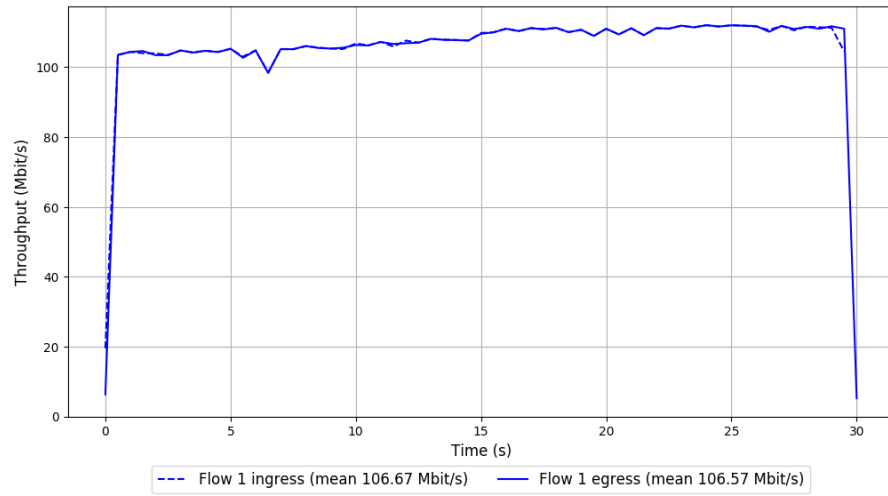
-- Flow 1:

Average throughput: 106.57 Mbit/s

95th percentile per-packet one-way delay: 63.386 ms

Loss rate: 0.04%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-08-17 06:18:42

End at: 2017-08-17 06:19:12

Below is generated by plot.py at 2017-08-17 09:05:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.02 Mbit/s

95th percentile per-packet one-way delay: 63.891 ms

Loss rate: 1.69%

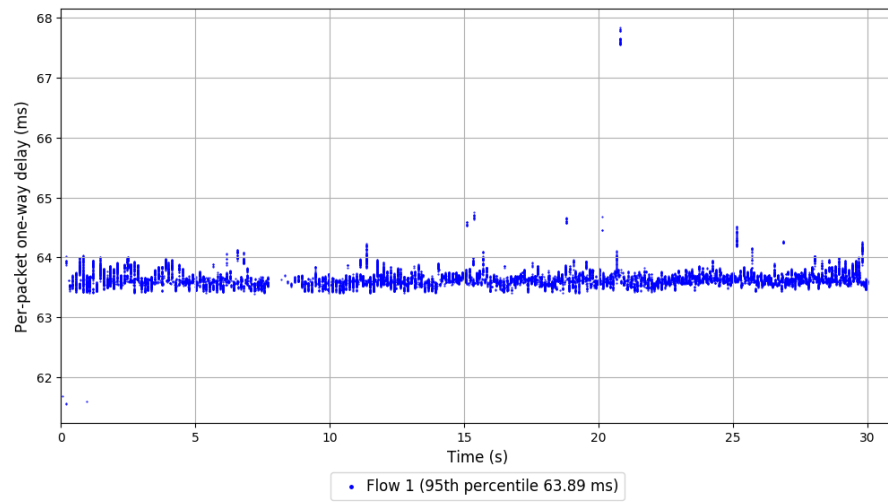
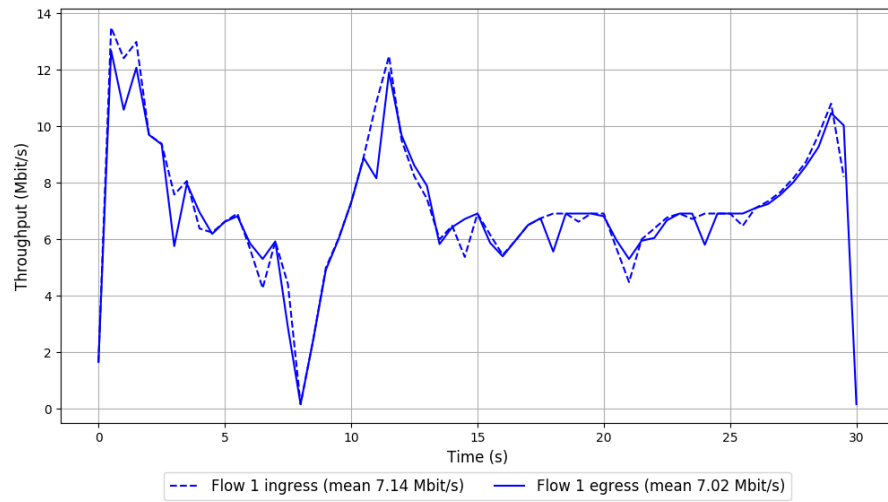
-- Flow 1:

Average throughput: 7.02 Mbit/s

95th percentile per-packet one-way delay: 63.891 ms

Loss rate: 1.69%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-08-17 06:29:21

End at: 2017-08-17 06:29:51

Below is generated by plot.py at 2017-08-17 09:05:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.99 Mbit/s

95th percentile per-packet one-way delay: 63.556 ms

Loss rate: 1.95%

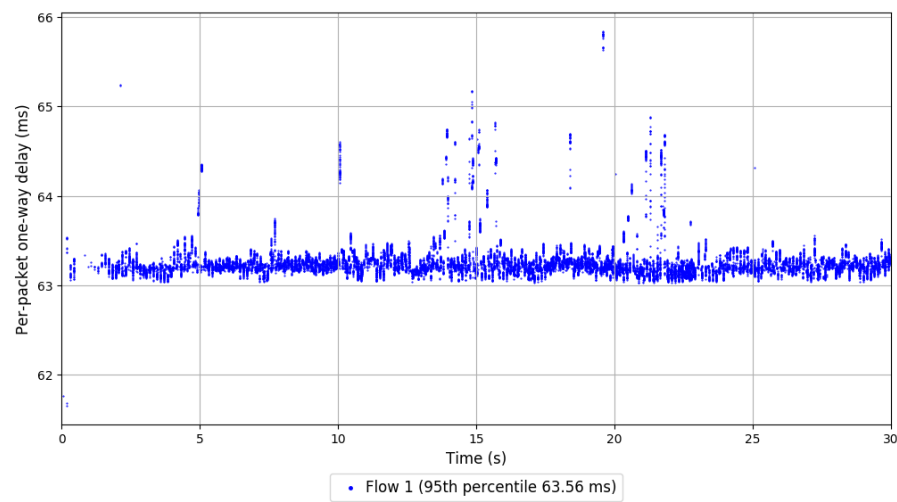
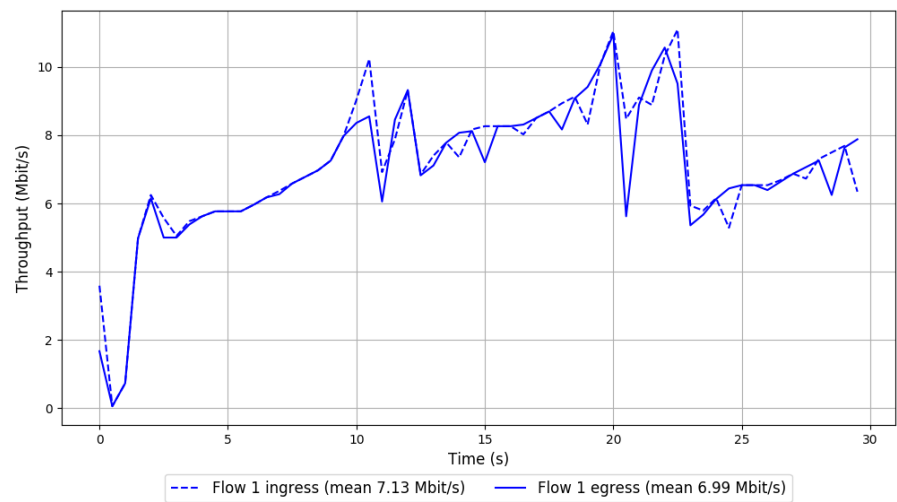
-- Flow 1:

Average throughput: 6.99 Mbit/s

95th percentile per-packet one-way delay: 63.556 ms

Loss rate: 1.95%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-08-17 06:39:54

End at: 2017-08-17 06:40:24

Below is generated by plot.py at 2017-08-17 09:05:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.28 Mbit/s

95th percentile per-packet one-way delay: 64.053 ms

Loss rate: 1.62%

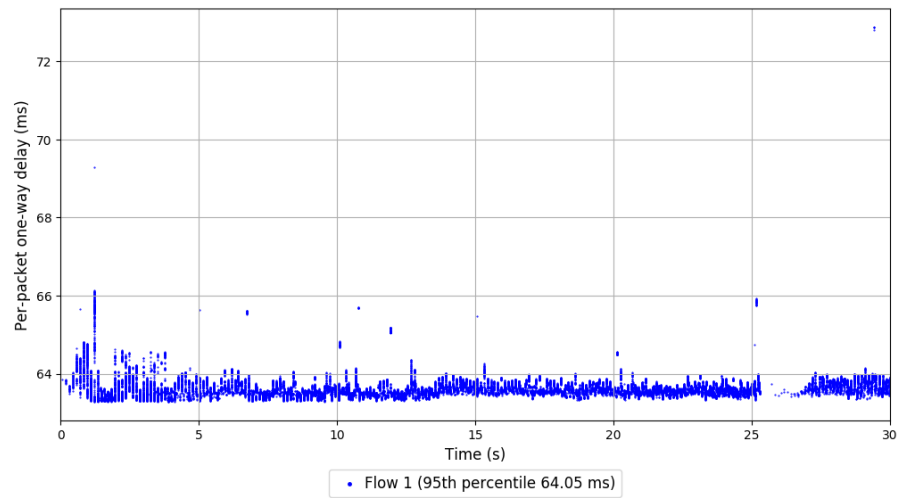
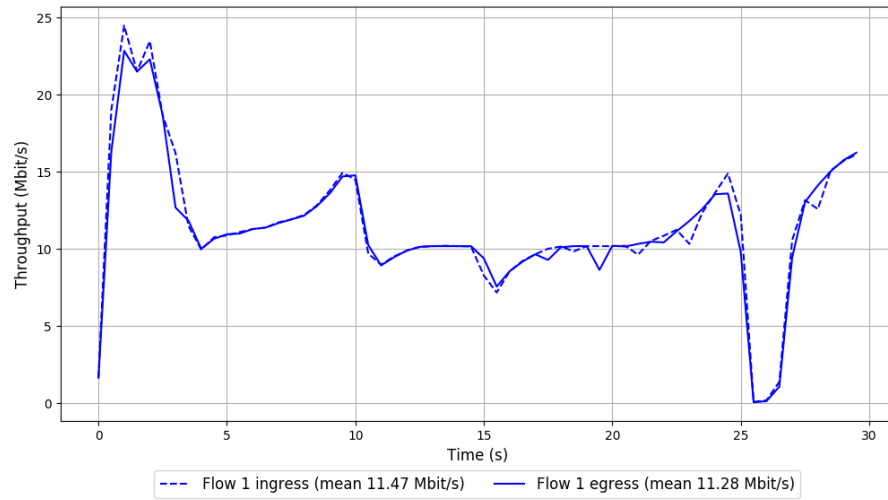
-- Flow 1:

Average throughput: 11.28 Mbit/s

95th percentile per-packet one-way delay: 64.053 ms

Loss rate: 1.62%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-08-17 06:50:10

End at: 2017-08-17 06:50:40

Below is generated by plot.py at 2017-08-17 09:05:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.53 Mbit/s

95th percentile per-packet one-way delay: 64.125 ms

Loss rate: 2.60%

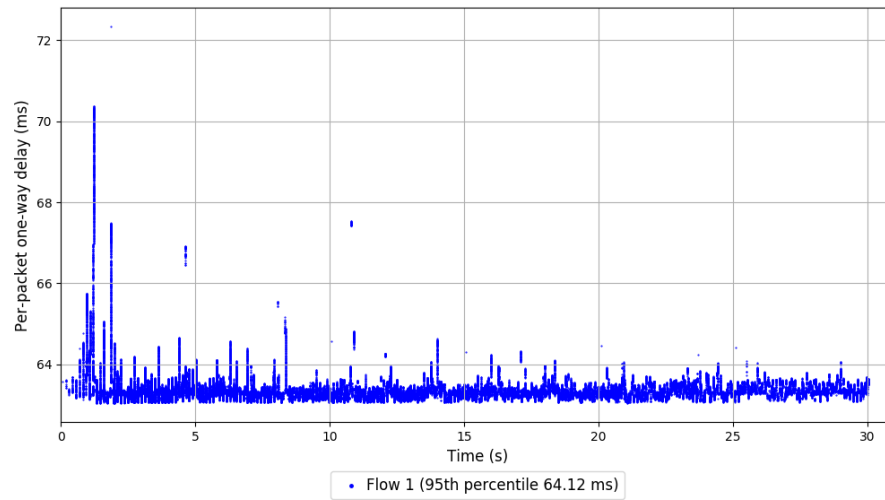
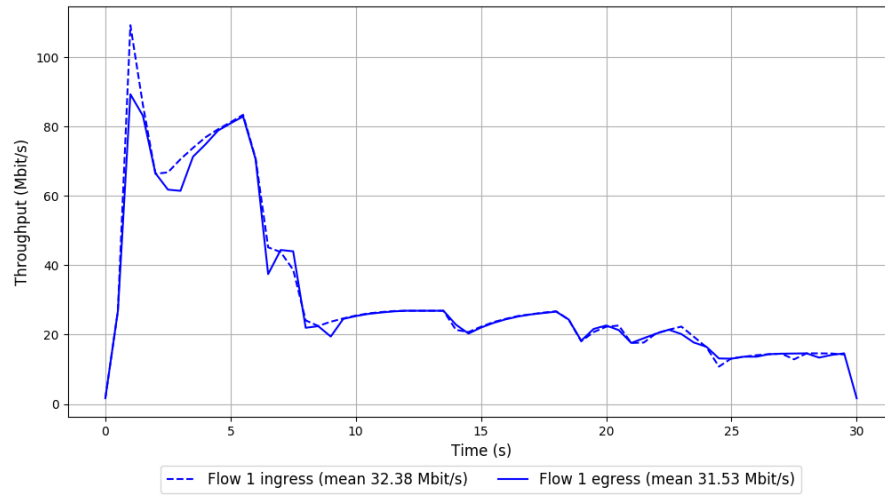
-- Flow 1:

Average throughput: 31.53 Mbit/s

95th percentile per-packet one-way delay: 64.125 ms

Loss rate: 2.60%

Run 4: Report of TCP Cubic — Data Link

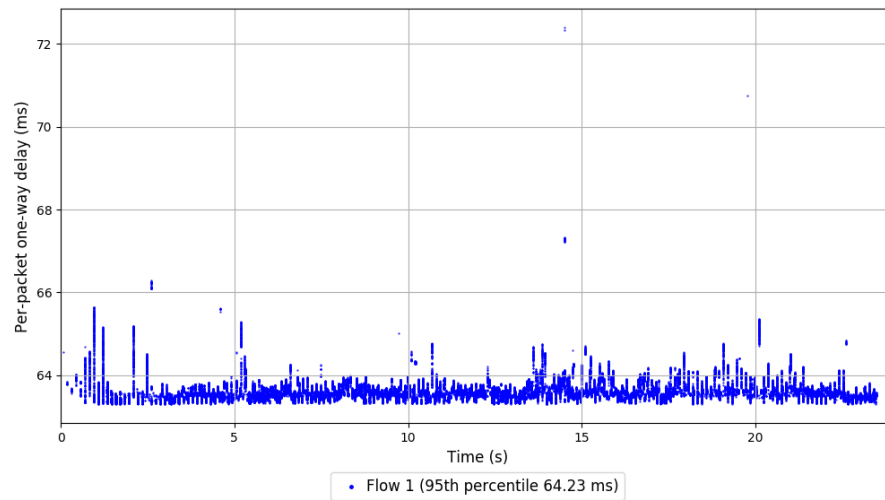
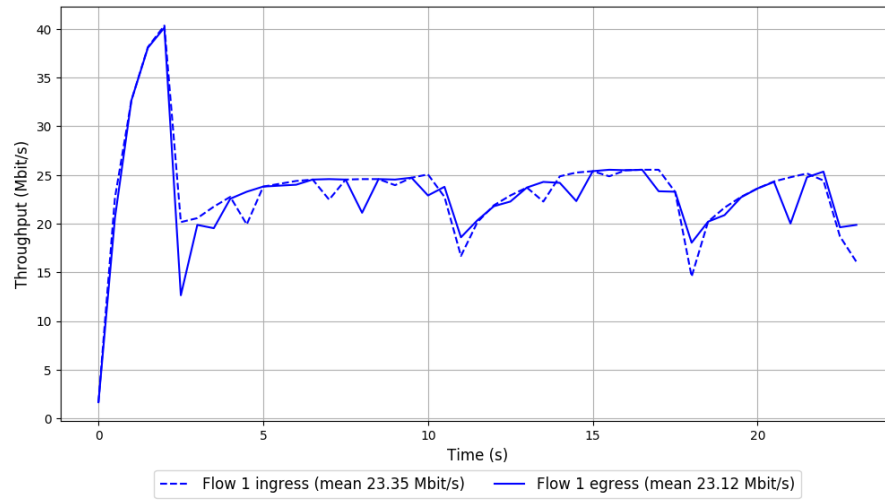


Run 5: Statistics of TCP Cubic

Start at: 2017-08-17 07:00:43

End at: 2017-08-17 07:01:14

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-08-17 07:11:05

End at: 2017-08-17 07:11:35

Below is generated by plot.py at 2017-08-17 09:05:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.11 Mbit/s

95th percentile per-packet one-way delay: 64.205 ms

Loss rate: 2.14%

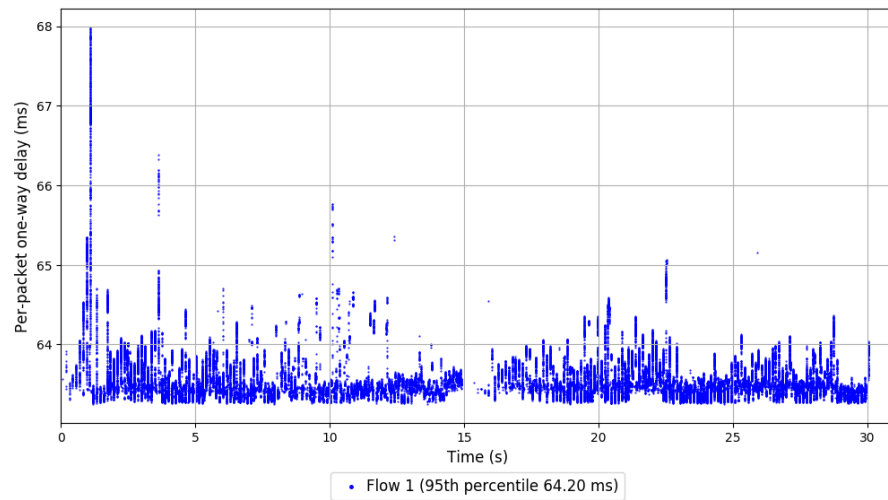
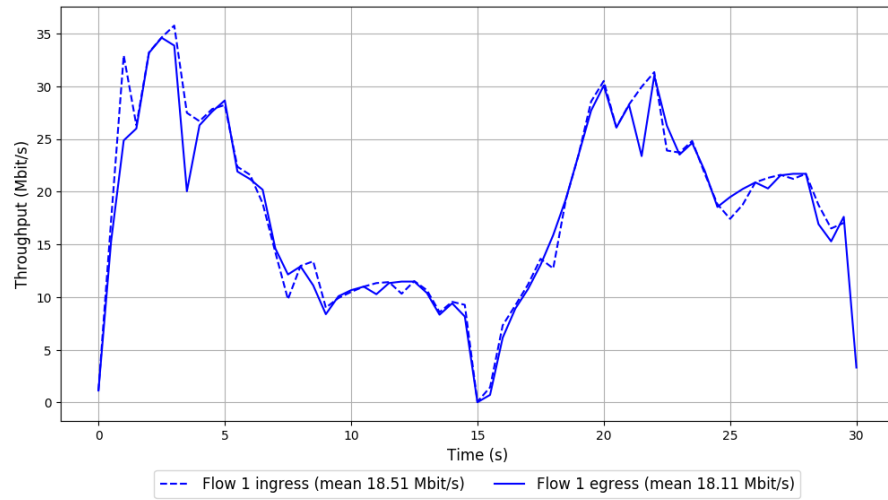
-- Flow 1:

Average throughput: 18.11 Mbit/s

95th percentile per-packet one-way delay: 64.205 ms

Loss rate: 2.14%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-08-17 07:21:17

End at: 2017-08-17 07:21:47

Below is generated by plot.py at 2017-08-17 09:05:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.74 Mbit/s

95th percentile per-packet one-way delay: 63.900 ms

Loss rate: 1.12%

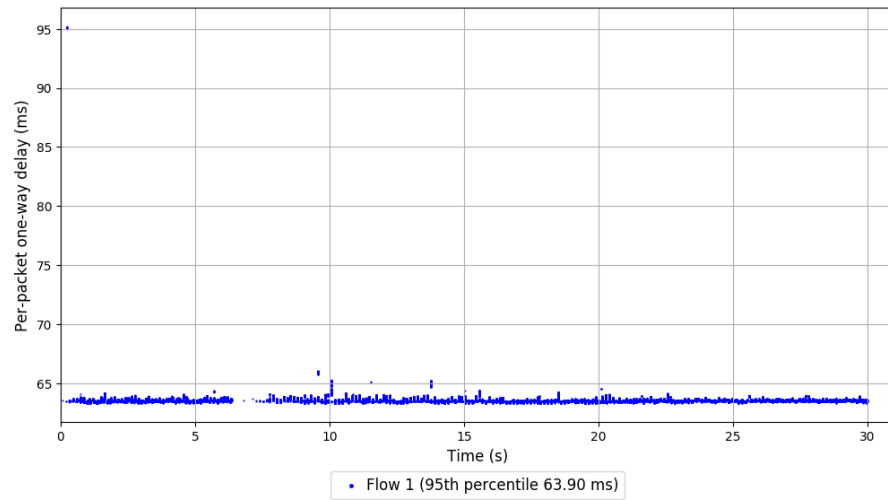
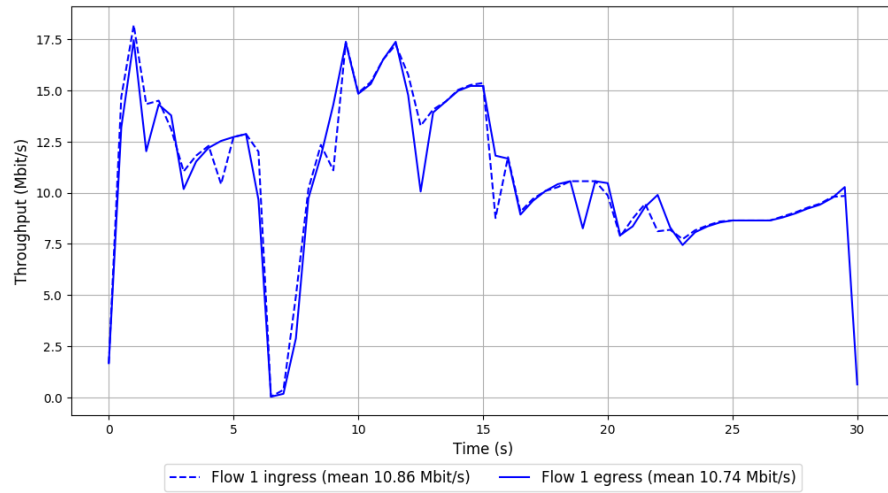
-- Flow 1:

Average throughput: 10.74 Mbit/s

95th percentile per-packet one-way delay: 63.900 ms

Loss rate: 1.12%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-08-17 07:31:37

End at: 2017-08-17 07:32:07

Below is generated by plot.py at 2017-08-17 09:05:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.92 Mbit/s

95th percentile per-packet one-way delay: 64.029 ms

Loss rate: 0.81%

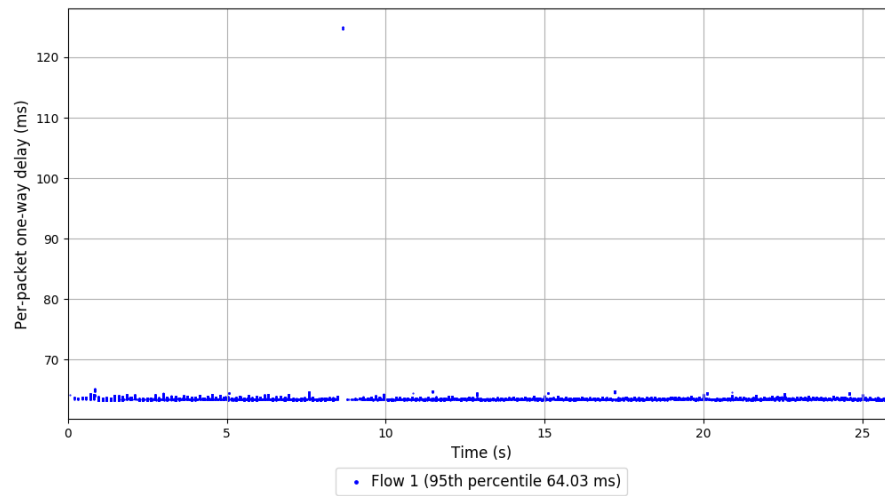
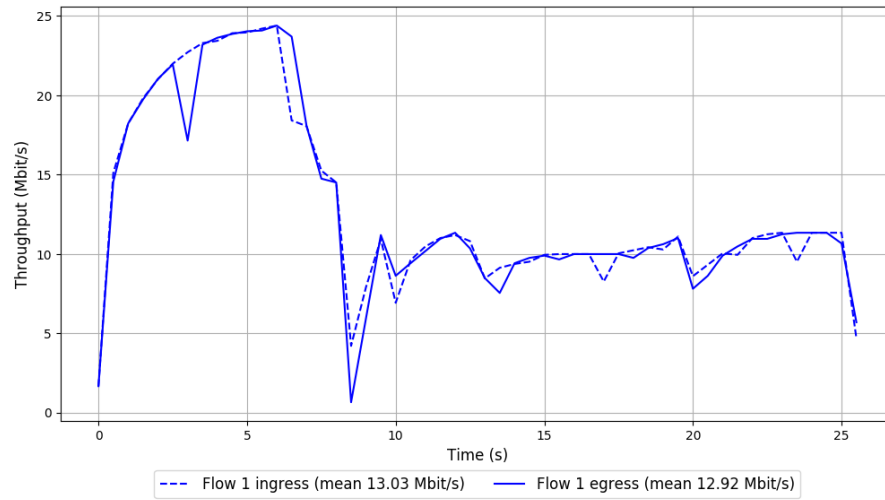
-- Flow 1:

Average throughput: 12.92 Mbit/s

95th percentile per-packet one-way delay: 64.029 ms

Loss rate: 0.81%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-08-17 07:41:52

End at: 2017-08-17 07:42:22

Below is generated by plot.py at 2017-08-17 09:05:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.82 Mbit/s

95th percentile per-packet one-way delay: 64.050 ms

Loss rate: 1.05%

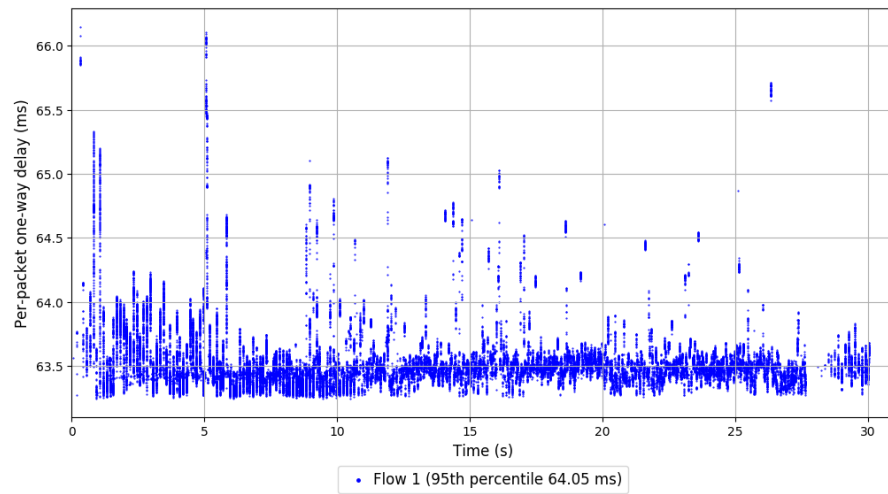
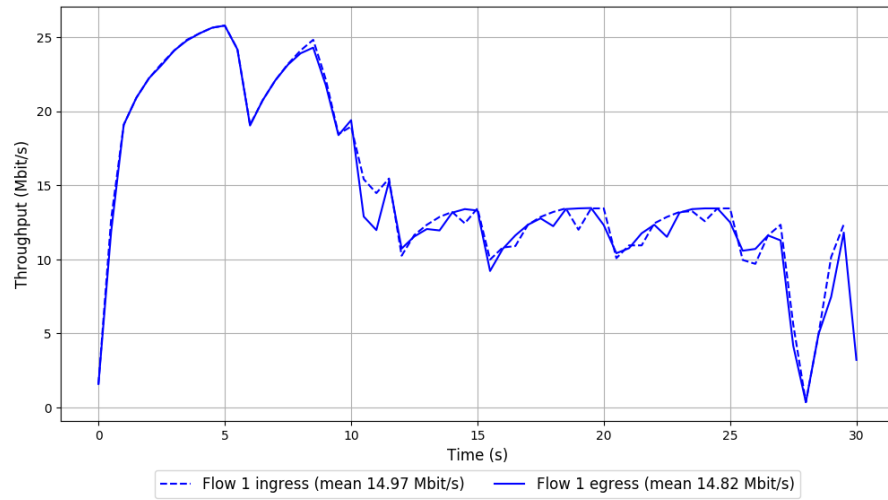
-- Flow 1:

Average throughput: 14.82 Mbit/s

95th percentile per-packet one-way delay: 64.050 ms

Loss rate: 1.05%

Run 9: Report of TCP Cubic — Data Link

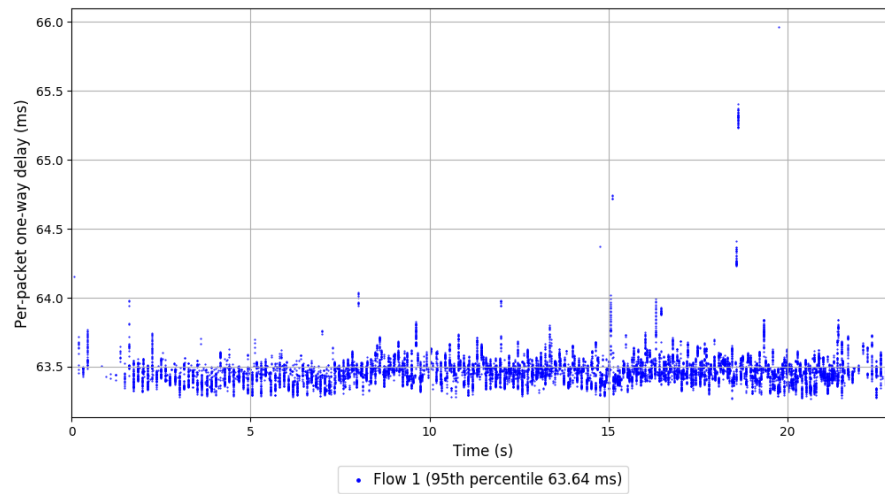
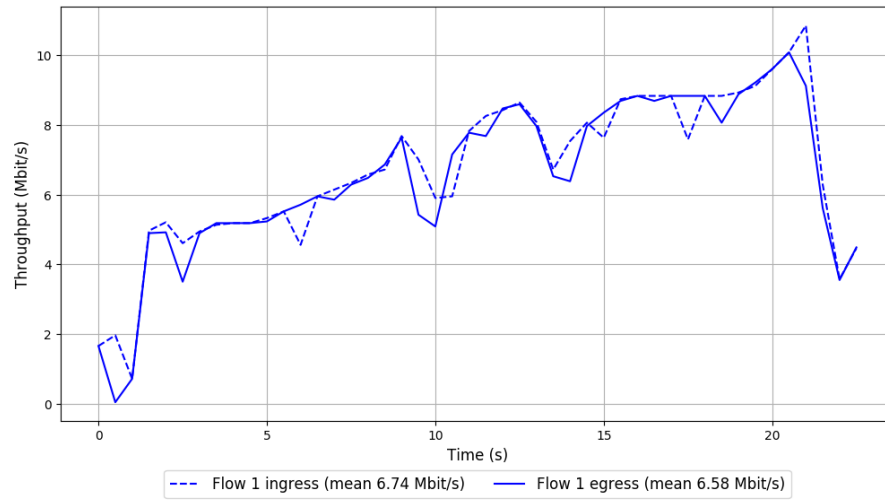


Run 10: Statistics of TCP Cubic

Start at: 2017-08-17 07:51:55

End at: 2017-08-17 07:52:25

Run 10: Report of TCP Cubic — Data Link

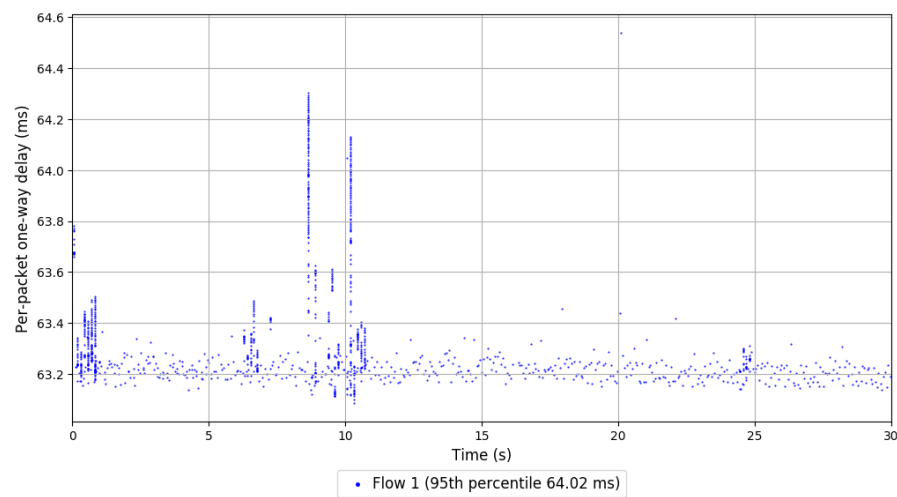
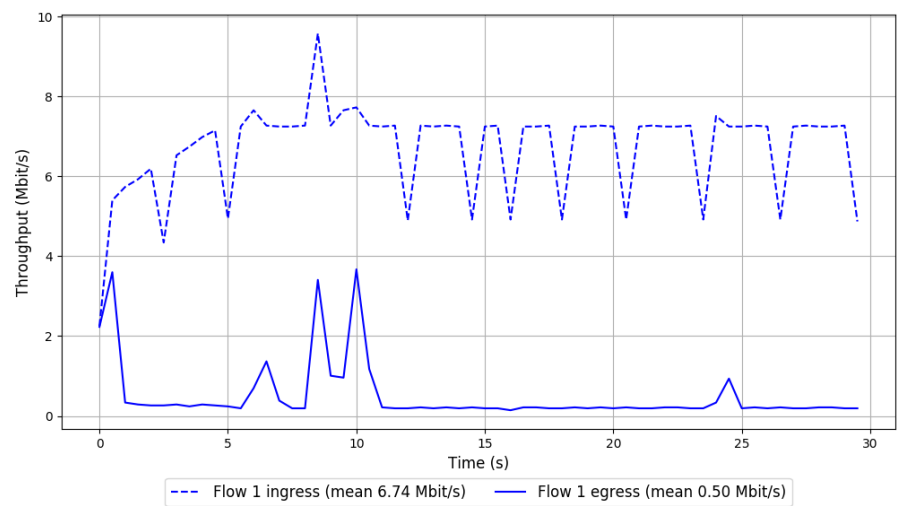


```
Run 1: Statistics of KohoCC

Start at: 2017-08-17 06:23:04
End at: 2017-08-17 06:23:34

# Below is generated by plot.py at 2017-08-17 09:05:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 64.016 ms
Loss rate: 92.54%
-- Flow 1:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 64.016 ms
Loss rate: 92.54%
```


Run 1: Report of KohoCC — Data Link



Run 2: Statistics of KohoCC

Start at: 2017-08-17 06:33:36

End at: 2017-08-17 06:34:06

Below is generated by plot.py at 2017-08-17 09:05:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 63.393 ms

Loss rate: 95.42%

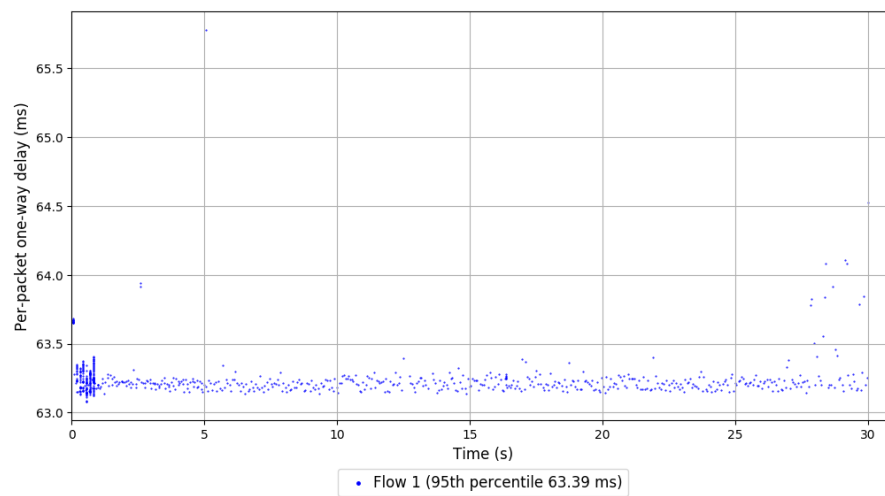
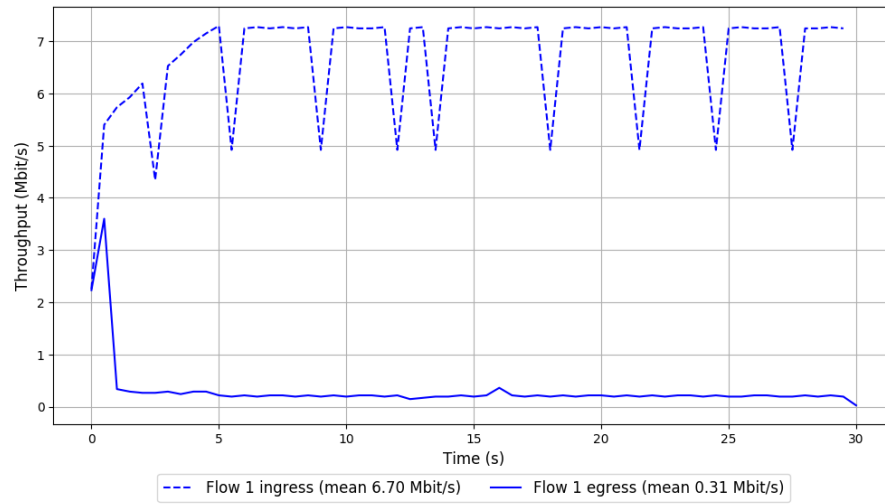
-- Flow 1:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 63.393 ms

Loss rate: 95.42%

Run 2: Report of KohoCC — Data Link



Run 3: Statistics of KohoCC

Start at: 2017-08-17 06:44:11

End at: 2017-08-17 06:44:41

Below is generated by plot.py at 2017-08-17 09:05:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.07 Mbit/s

95th percentile per-packet one-way delay: 63.928 ms

Loss rate: 1.73%

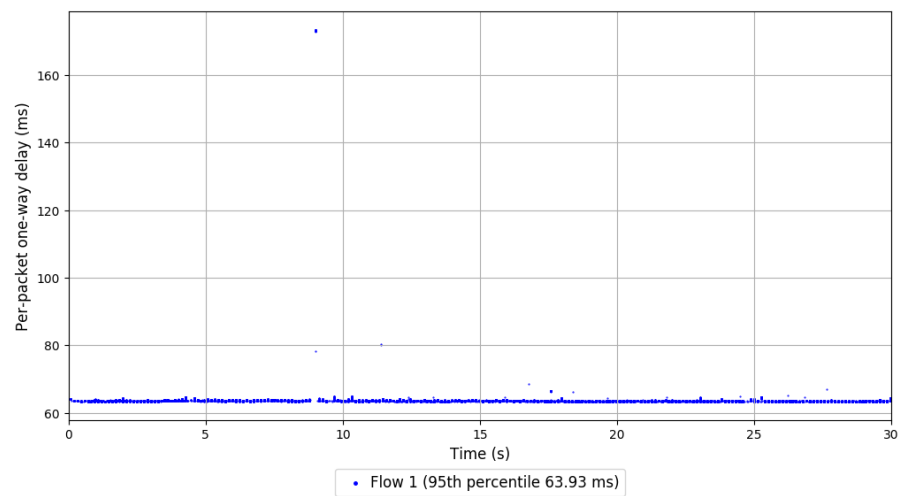
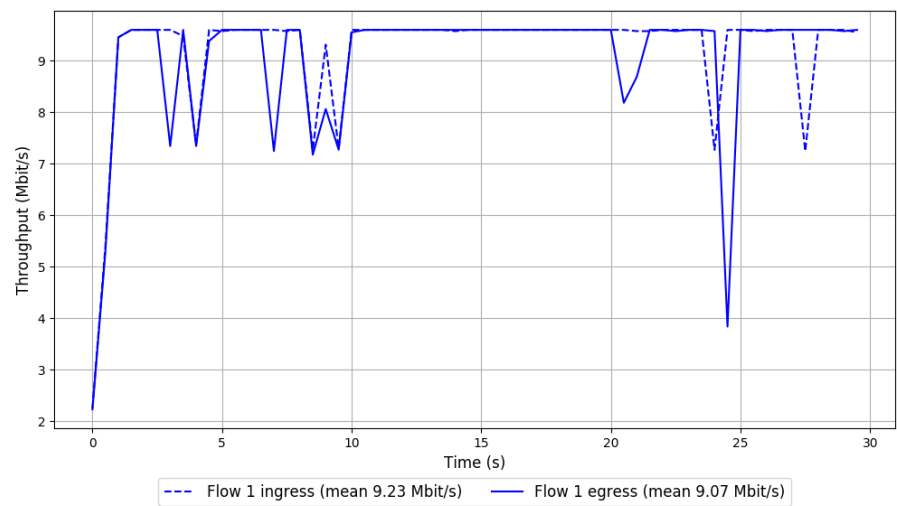
-- Flow 1:

Average throughput: 9.07 Mbit/s

95th percentile per-packet one-way delay: 63.928 ms

Loss rate: 1.73%

Run 3: Report of KohoCC — Data Link



Run 4: Statistics of KohoCC

Start at: 2017-08-17 06:54:43

End at: 2017-08-17 06:55:13

Below is generated by plot.py at 2017-08-17 09:05:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 63.501 ms

Loss rate: 94.61%

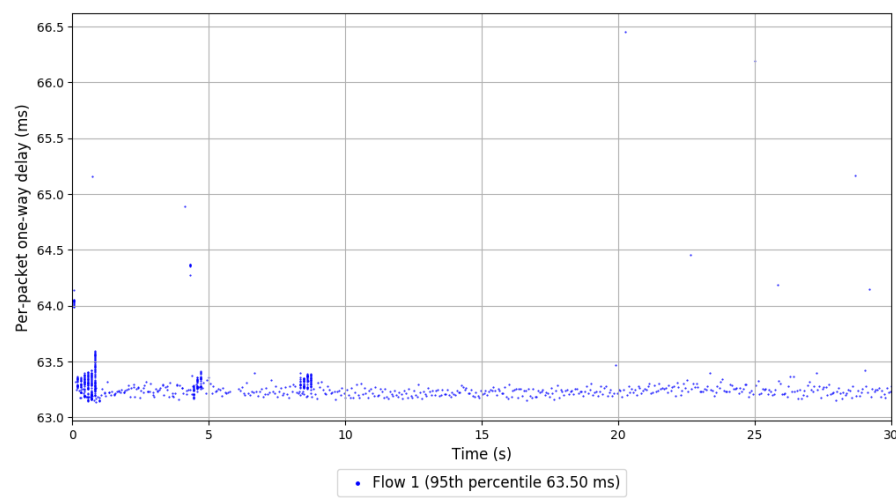
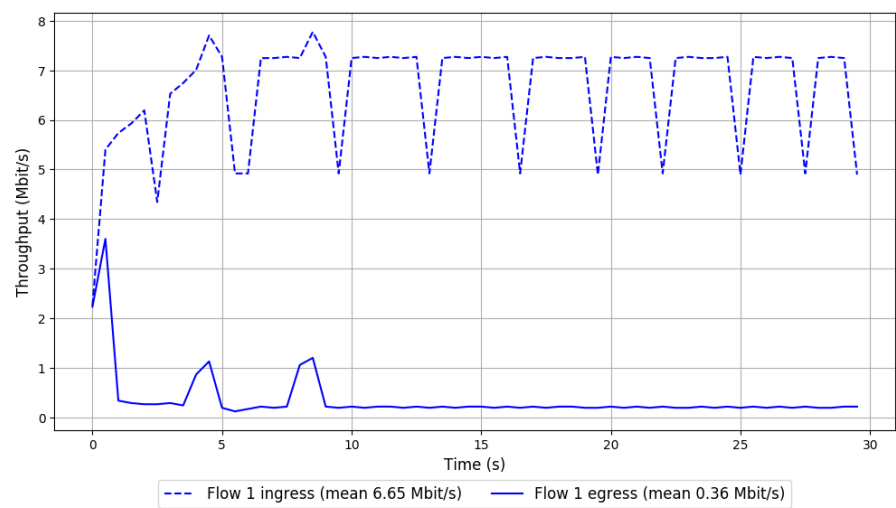
-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 63.501 ms

Loss rate: 94.61%

Run 4: Report of KohoCC — Data Link



Run 5: Statistics of KohoCC

Start at: 2017-08-17 07:04:53

End at: 2017-08-17 07:05:23

Below is generated by plot.py at 2017-08-17 09:05:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.94 Mbit/s

95th percentile per-packet one-way delay: 64.031 ms

Loss rate: 2.83%

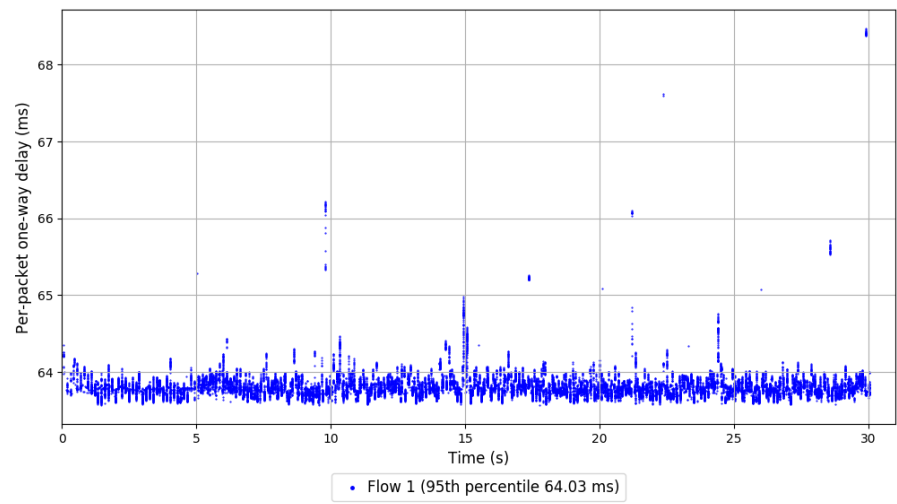
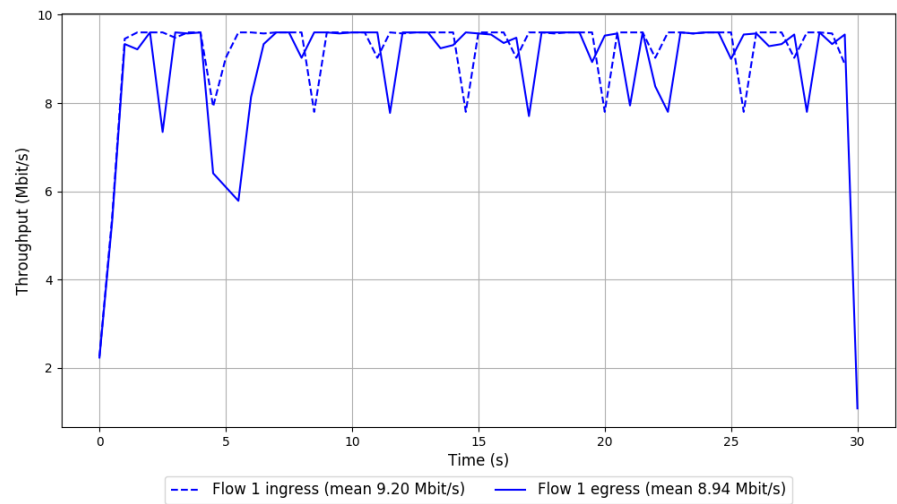
-- Flow 1:

Average throughput: 8.94 Mbit/s

95th percentile per-packet one-way delay: 64.031 ms

Loss rate: 2.83%

Run 5: Report of KohoCC — Data Link



Run 6: Statistics of KohoCC

Start at: 2017-08-17 07:15:09

End at: 2017-08-17 07:15:39

Below is generated by plot.py at 2017-08-17 09:05:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 63.866 ms

Loss rate: 93.99%

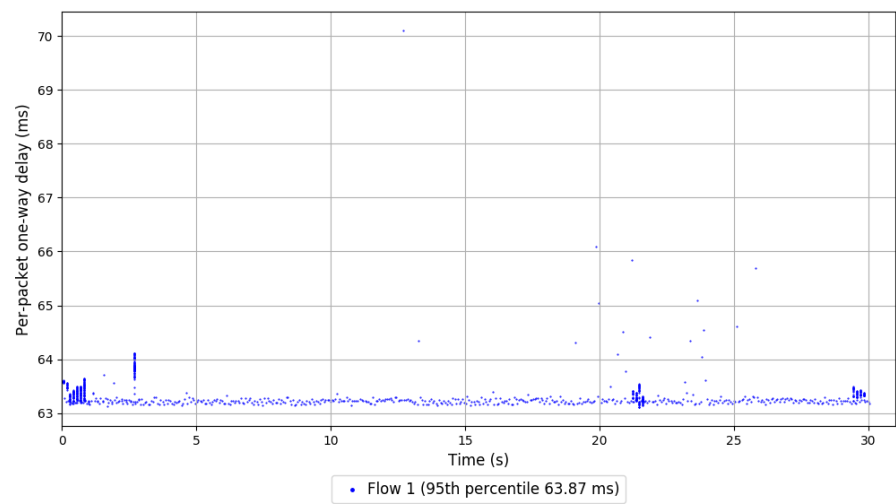
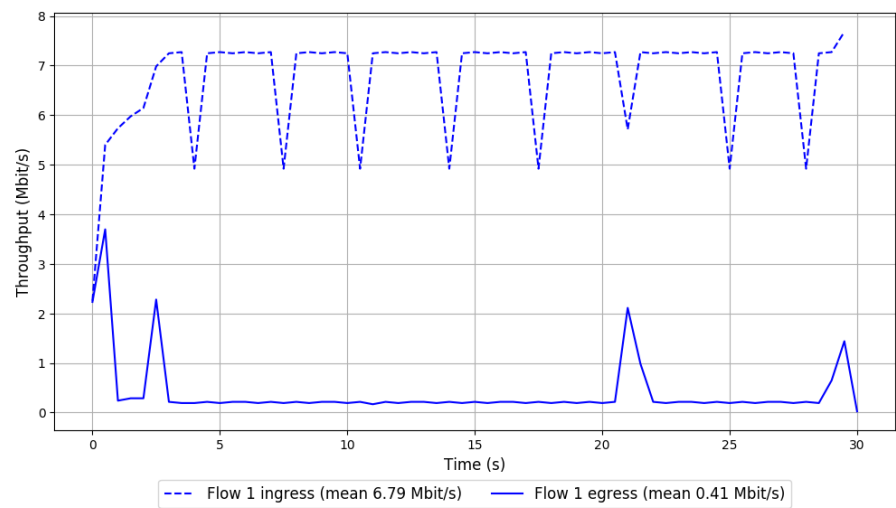
-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 63.866 ms

Loss rate: 93.99%

Run 6: Report of KohoCC — Data Link



Run 7: Statistics of KohoCC

Start at: 2017-08-17 07:25:37

End at: 2017-08-17 07:26:07

Below is generated by plot.py at 2017-08-17 09:05:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 63.710 ms

Loss rate: 94.82%

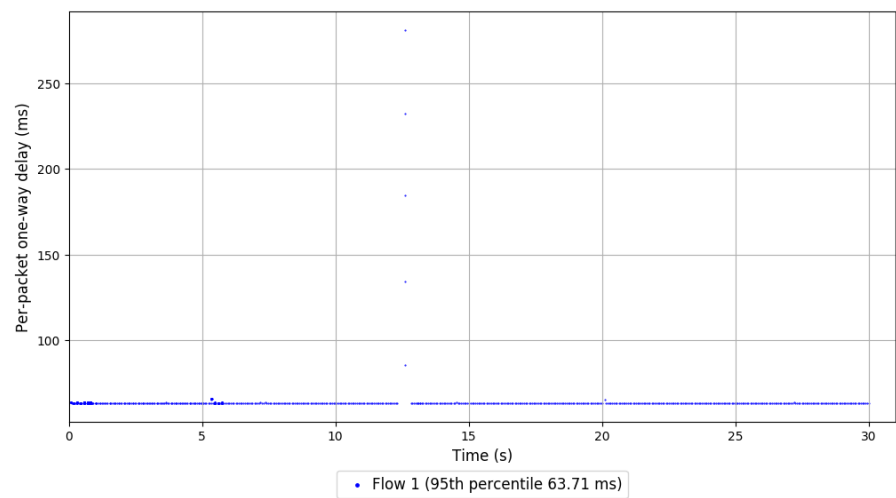
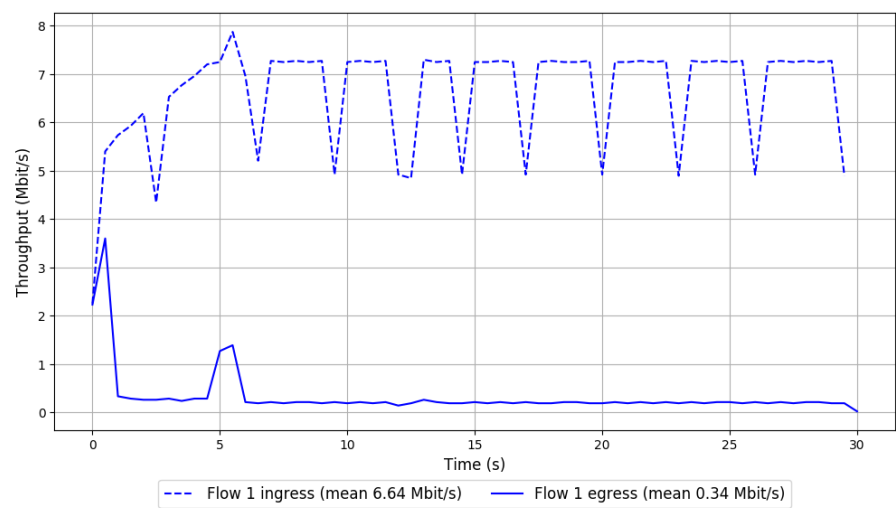
-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 63.710 ms

Loss rate: 94.82%

Run 7: Report of KohoCC — Data Link



Run 8: Statistics of KohoCC

Start at: 2017-08-17 07:35:54

End at: 2017-08-17 07:36:24

Below is generated by plot.py at 2017-08-17 09:06:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 64.256 ms

Loss rate: 93.15%

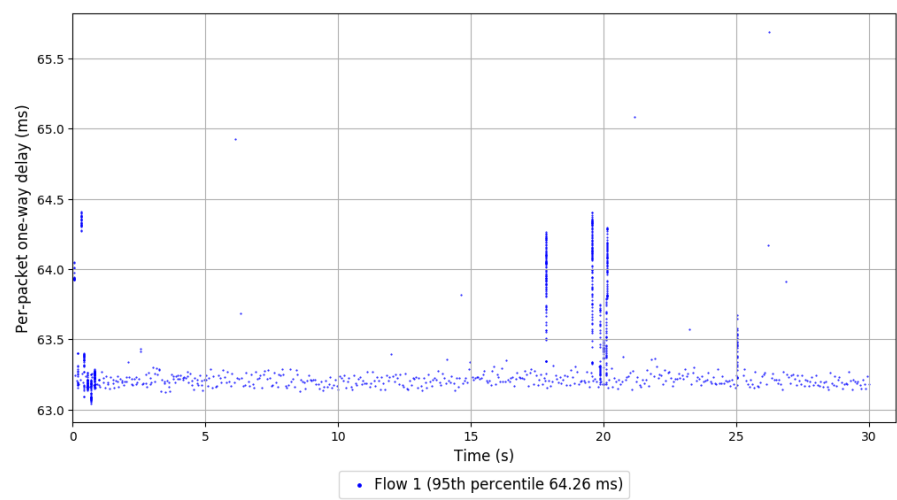
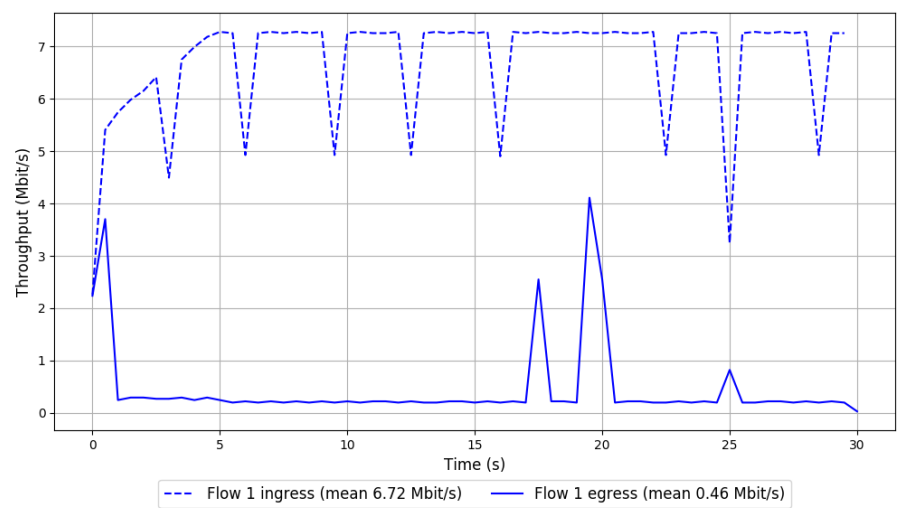
-- Flow 1:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 64.256 ms

Loss rate: 93.15%

Run 8: Report of KohoCC — Data Link

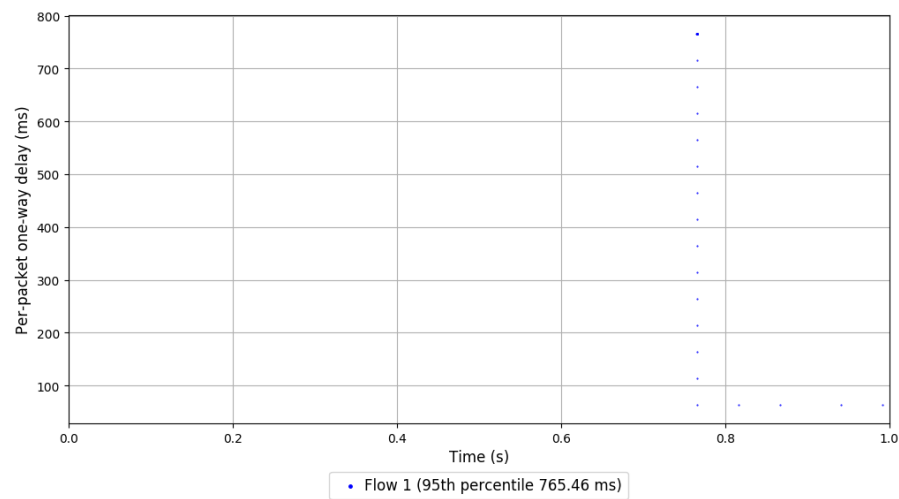
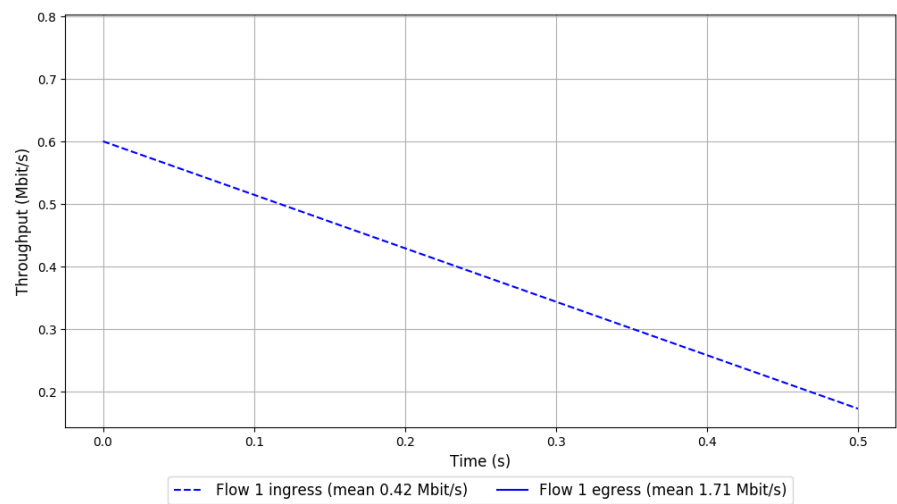


Run 9: Statistics of KohoCC

Start at: 2017-08-17 07:45:54

End at: 2017-08-17 07:46:24

Run 9: Report of KohoCC — Data Link



Run 10: Statistics of KohoCC

Start at: 2017-08-17 07:55:54

End at: 2017-08-17 07:56:24

Below is generated by plot.py at 2017-08-17 09:06:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.01 Mbit/s

95th percentile per-packet one-way delay: 62.091 ms

Loss rate: 2.92%

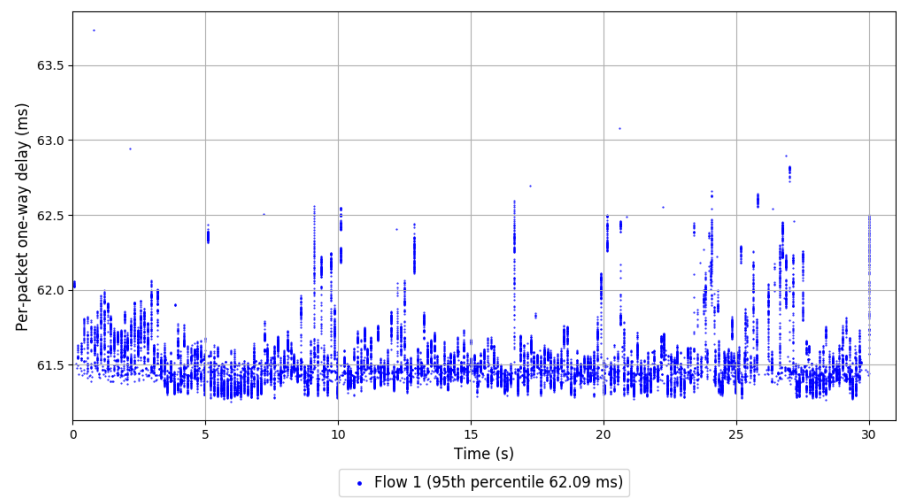
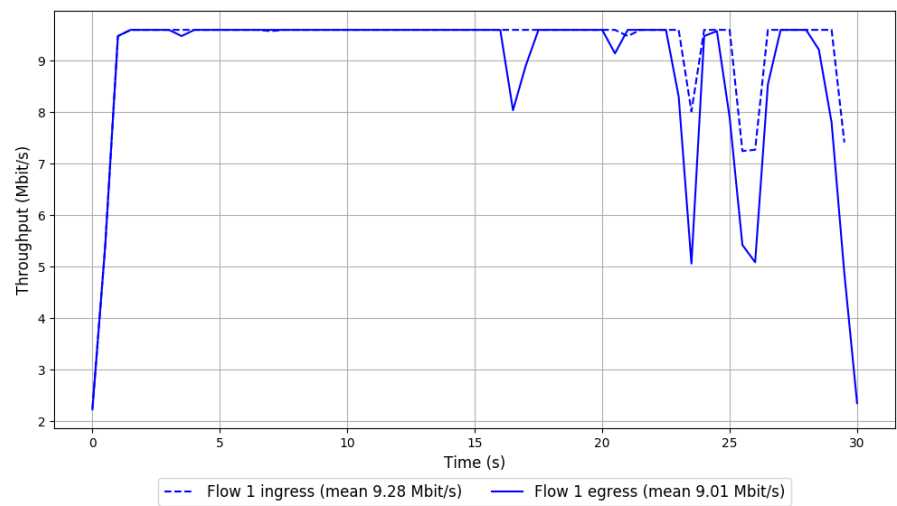
-- Flow 1:

Average throughput: 9.01 Mbit/s

95th percentile per-packet one-way delay: 62.091 ms

Loss rate: 2.92%

Run 10: Report of KohoCC — Data Link

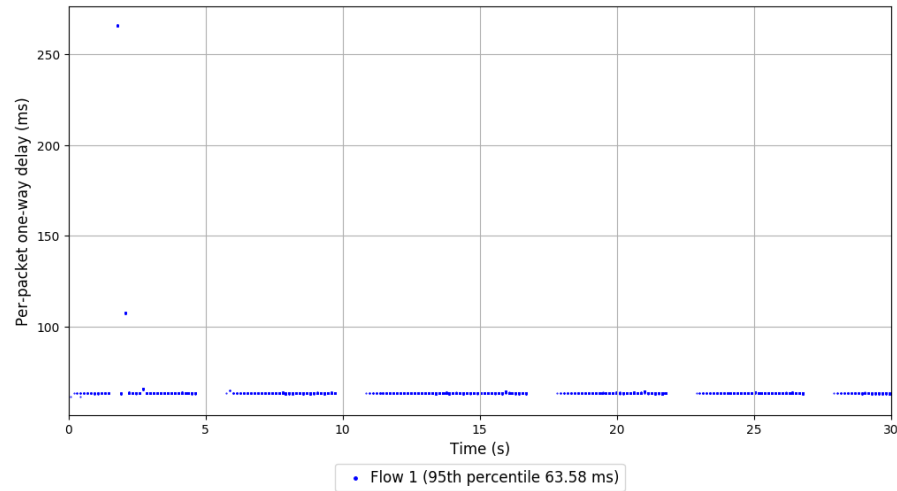
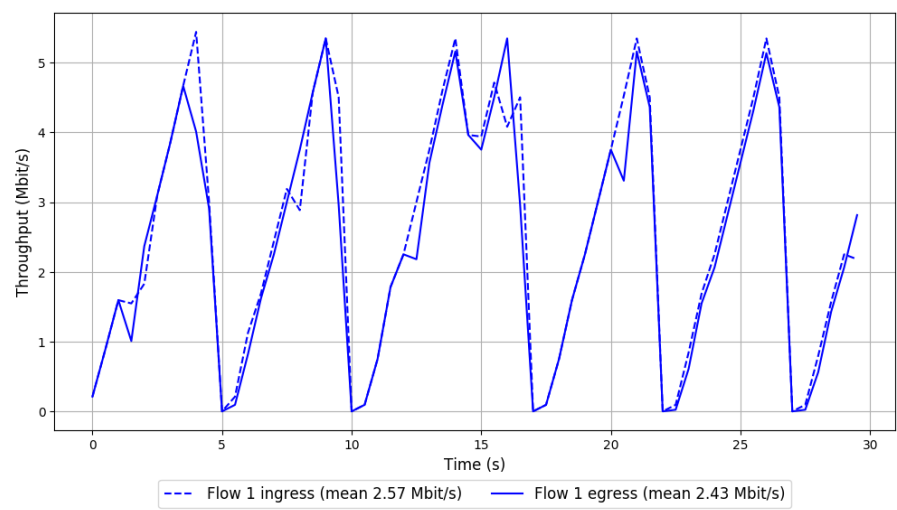


```
Run 1: Statistics of LEDBAT

Start at: 2017-08-17 06:20:18
End at: 2017-08-17 06:20:48

# Below is generated by plot.py at 2017-08-17 09:06:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 63.580 ms
Loss rate: 5.38%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 63.580 ms
Loss rate: 5.38%
```

Run 1: Report of LEDBAT — Data Link

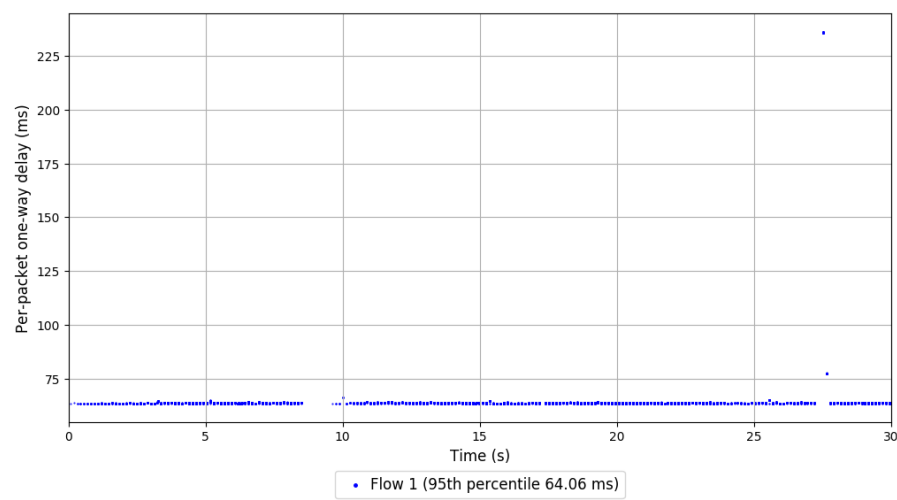
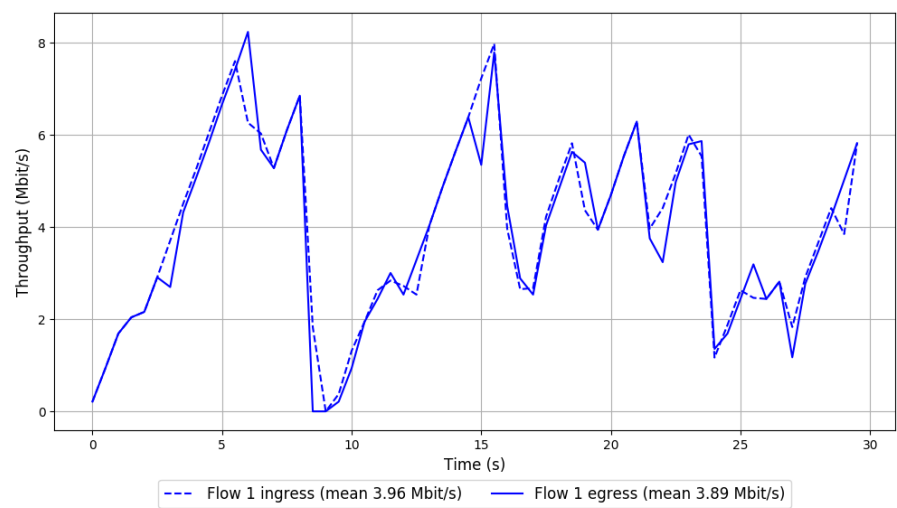


```
Run 2: Statistics of LEDBAT

Start at: 2017-08-17 06:30:52
End at: 2017-08-17 06:31:22

# Below is generated by plot.py at 2017-08-17 09:06:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.89 Mbit/s
95th percentile per-packet one-way delay: 64.059 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 3.89 Mbit/s
95th percentile per-packet one-way delay: 64.059 ms
Loss rate: 1.74%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-08-17 06:41:30

End at: 2017-08-17 06:42:00

Below is generated by plot.py at 2017-08-17 09:06:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 63.410 ms

Loss rate: 3.64%

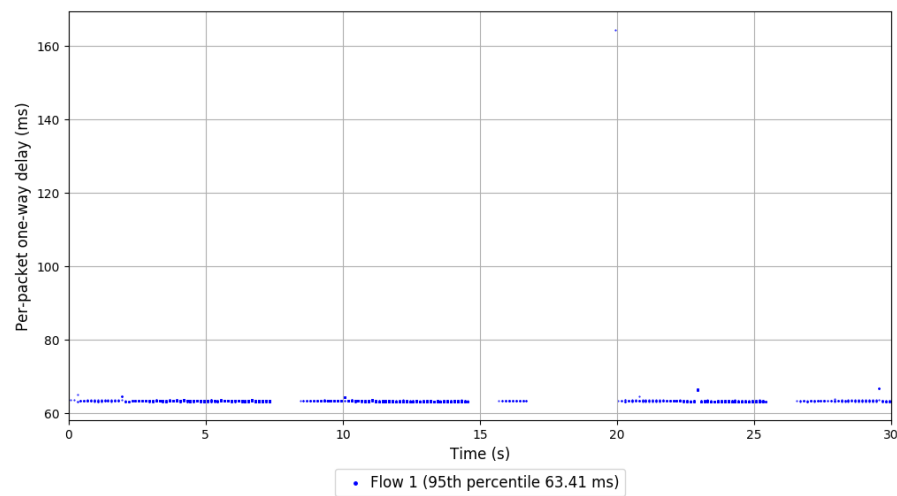
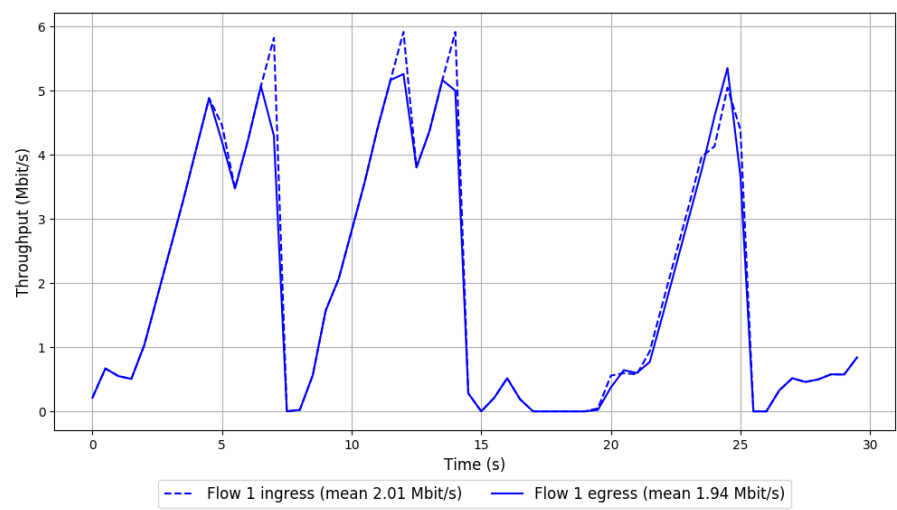
-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 63.410 ms

Loss rate: 3.64%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-08-17 06:51:47

End at: 2017-08-17 06:52:17

Below is generated by plot.py at 2017-08-17 09:06:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.98 Mbit/s

95th percentile per-packet one-way delay: 64.258 ms

Loss rate: 1.36%

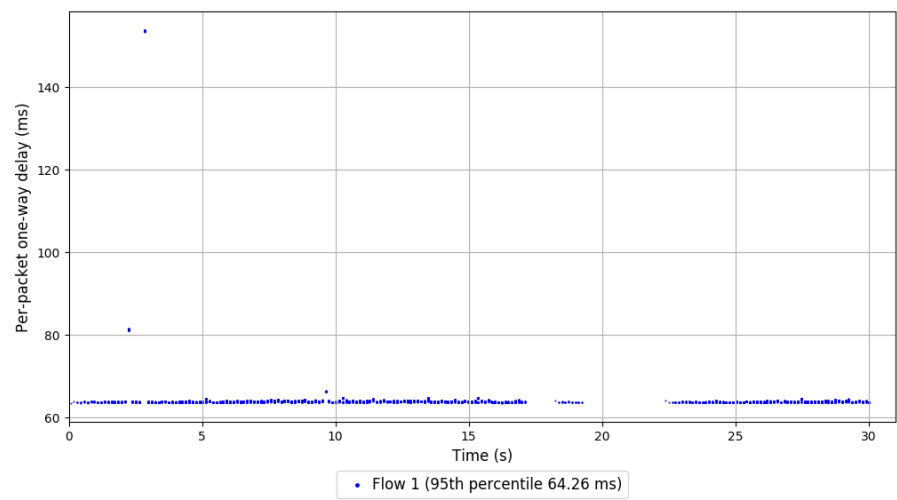
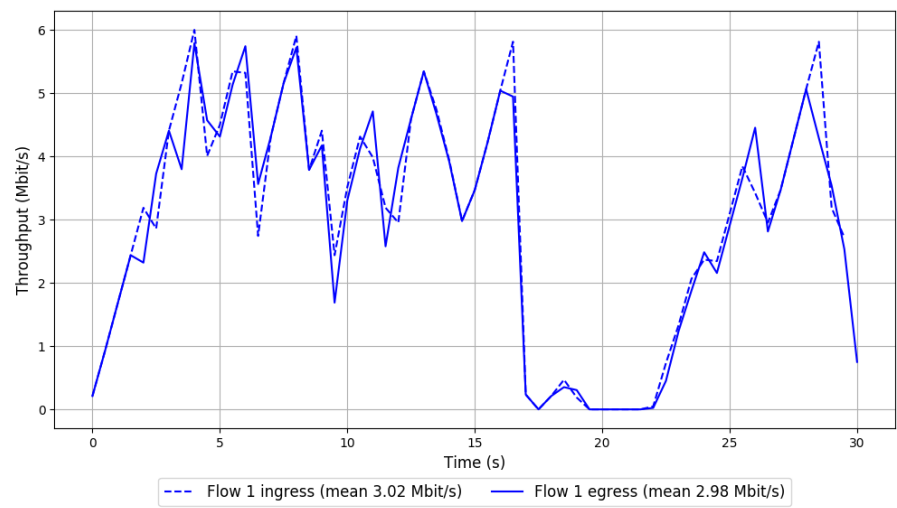
-- Flow 1:

Average throughput: 2.98 Mbit/s

95th percentile per-packet one-way delay: 64.258 ms

Loss rate: 1.36%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-08-17 07:02:00

End at: 2017-08-17 07:02:30

Below is generated by plot.py at 2017-08-17 09:06:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.74 Mbit/s

95th percentile per-packet one-way delay: 64.035 ms

Loss rate: 1.14%

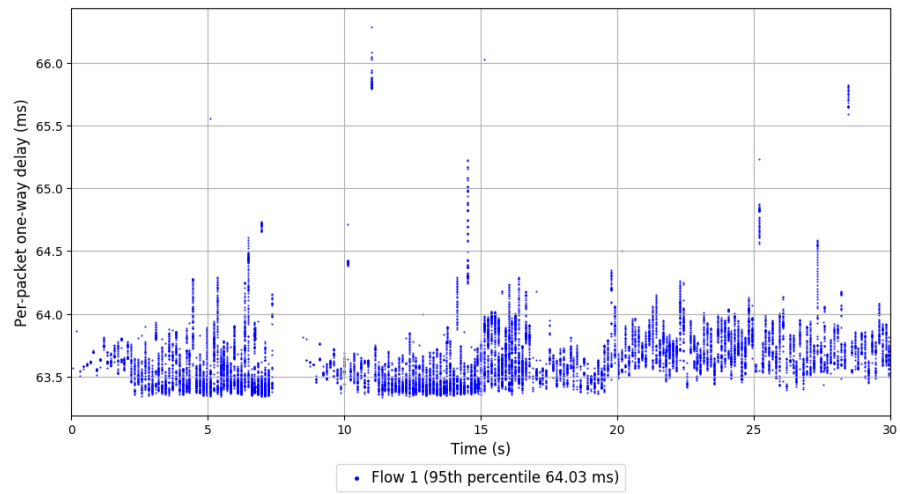
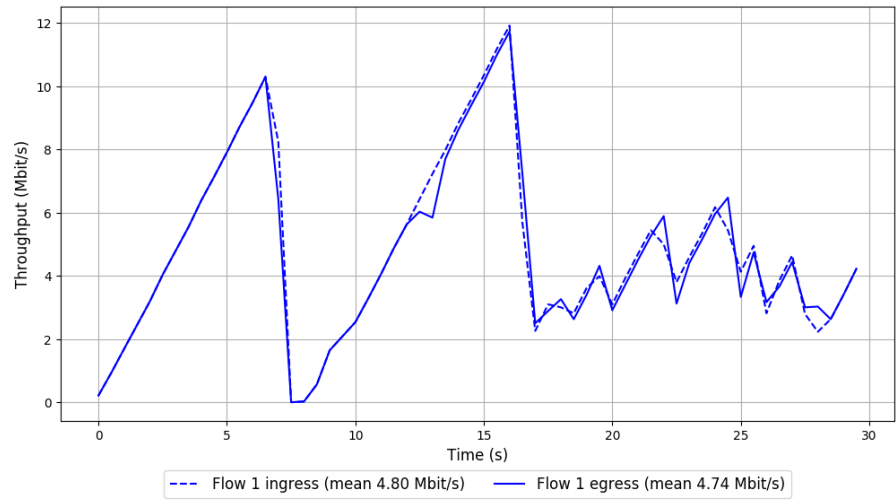
-- Flow 1:

Average throughput: 4.74 Mbit/s

95th percentile per-packet one-way delay: 64.035 ms

Loss rate: 1.14%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-08-17 07:12:32

End at: 2017-08-17 07:13:02

Below is generated by plot.py at 2017-08-17 09:06:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.00 Mbit/s

95th percentile per-packet one-way delay: 63.632 ms

Loss rate: 1.74%

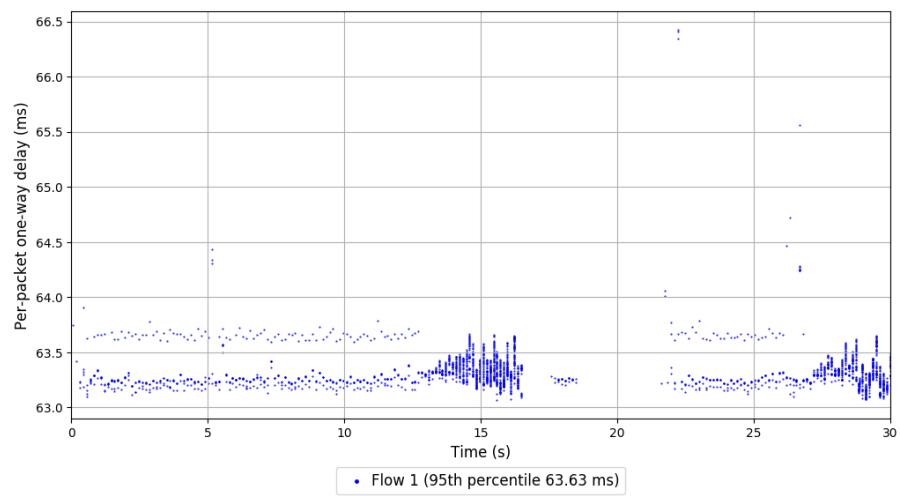
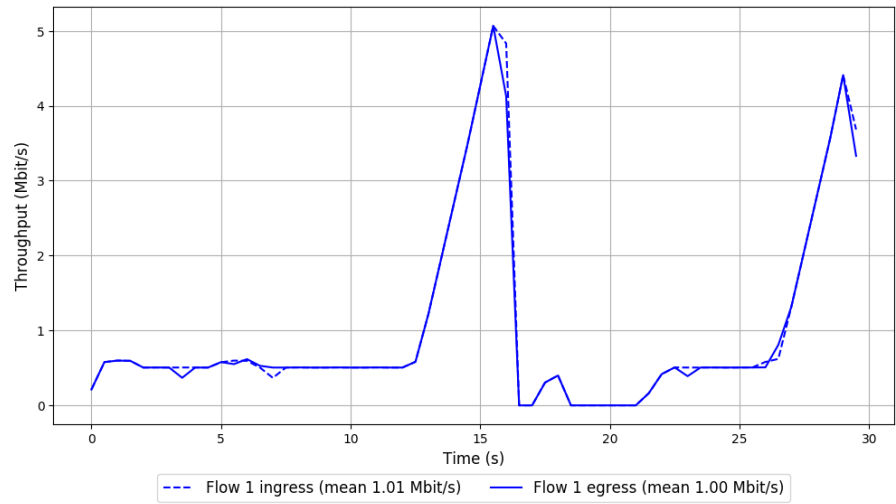
-- Flow 1:

Average throughput: 1.00 Mbit/s

95th percentile per-packet one-way delay: 63.632 ms

Loss rate: 1.74%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-08-17 07:22:51

End at: 2017-08-17 07:23:21

Below is generated by plot.py at 2017-08-17 09:06:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.45 Mbit/s

95th percentile per-packet one-way delay: 64.063 ms

Loss rate: 0.50%

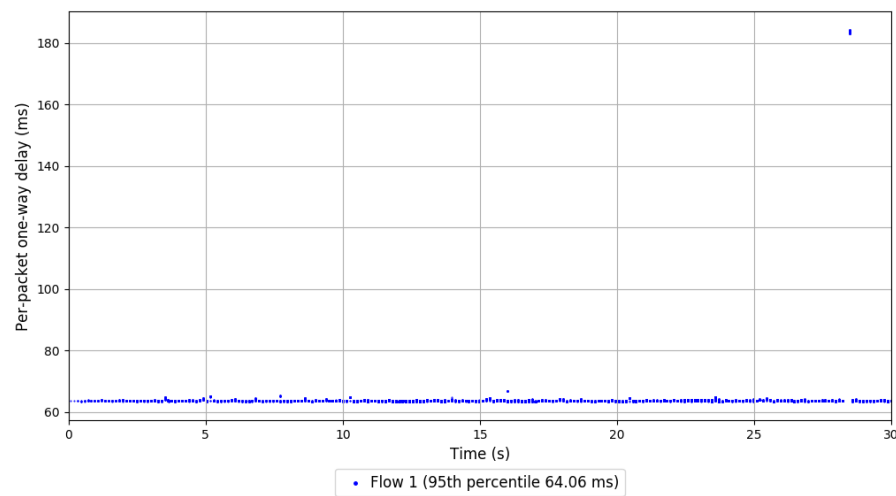
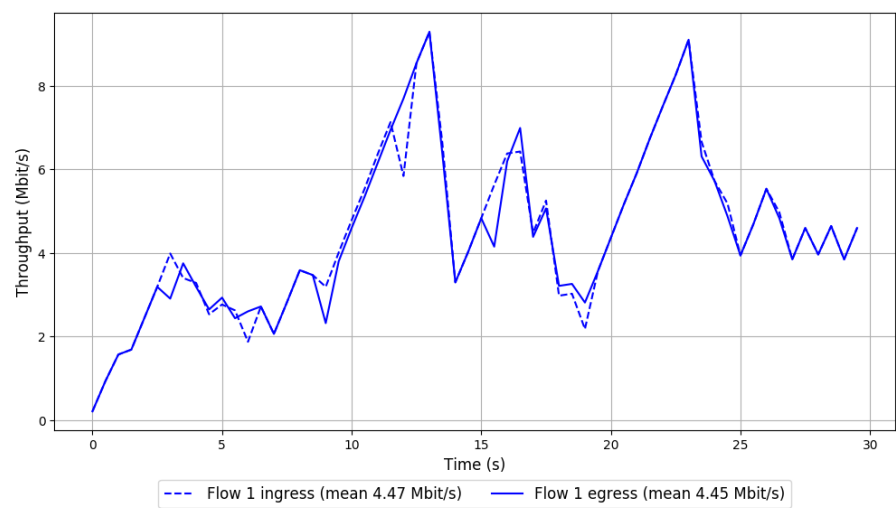
-- Flow 1:

Average throughput: 4.45 Mbit/s

95th percentile per-packet one-way delay: 64.063 ms

Loss rate: 0.50%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-08-17 07:33:13

End at: 2017-08-17 07:33:43

Below is generated by plot.py at 2017-08-17 09:06:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.59 Mbit/s

95th percentile per-packet one-way delay: 64.070 ms

Loss rate: 0.19%

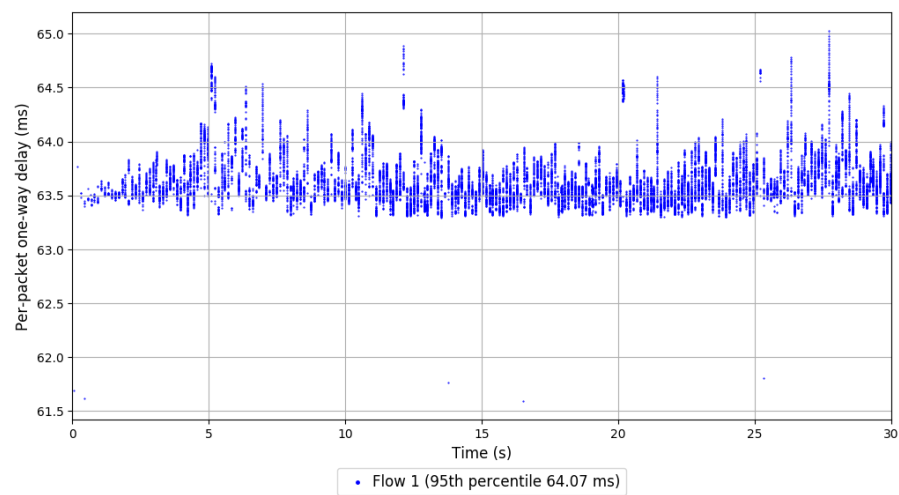
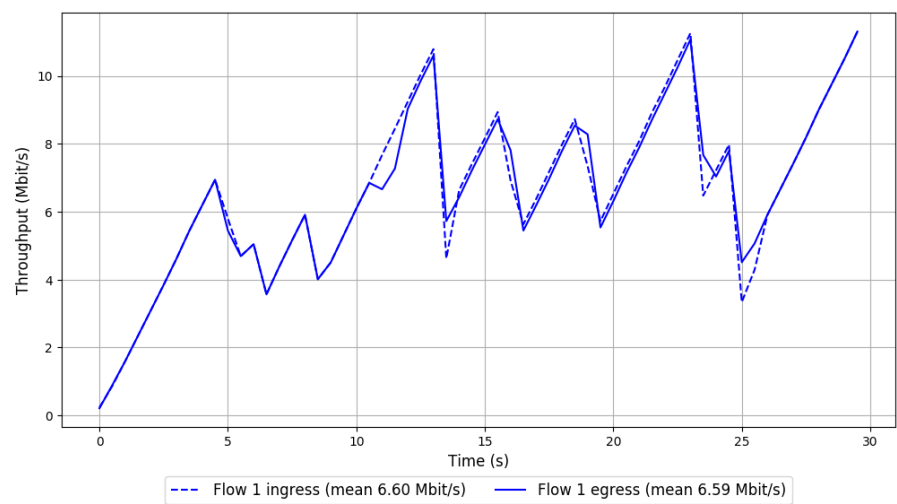
-- Flow 1:

Average throughput: 6.59 Mbit/s

95th percentile per-packet one-way delay: 64.070 ms

Loss rate: 0.19%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-08-17 07:43:09

End at: 2017-08-17 07:43:39

Below is generated by plot.py at 2017-08-17 09:06:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.32 Mbit/s

95th percentile per-packet one-way delay: 64.013 ms

Loss rate: 0.74%

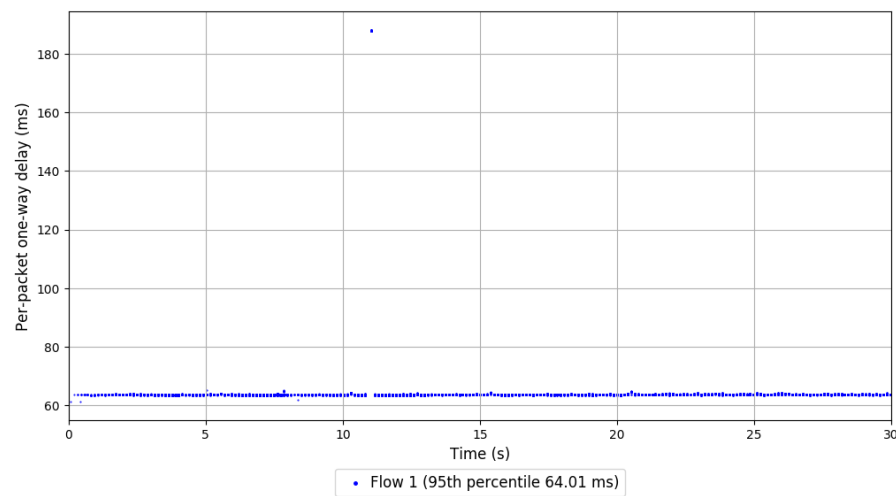
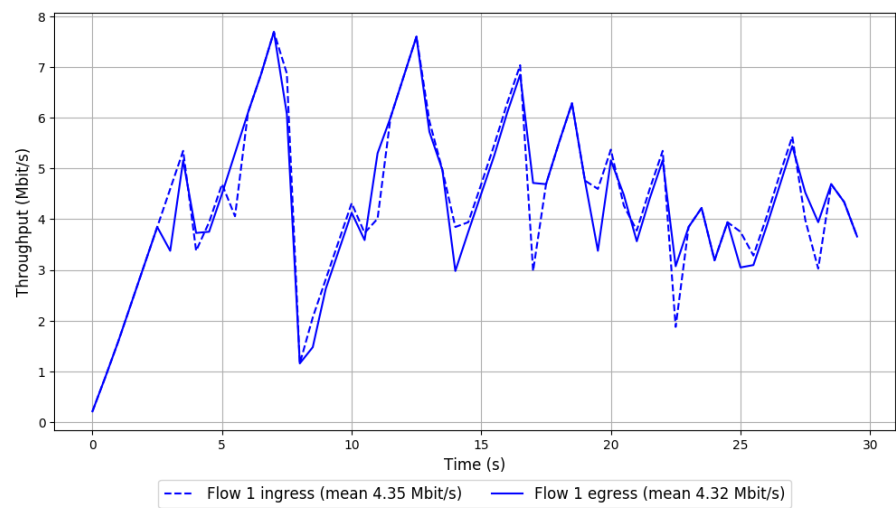
-- Flow 1:

Average throughput: 4.32 Mbit/s

95th percentile per-packet one-way delay: 64.013 ms

Loss rate: 0.74%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-08-17 07:53:11

End at: 2017-08-17 07:53:41

Below is generated by plot.py at 2017-08-17 09:06:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.70 Mbit/s

95th percentile per-packet one-way delay: 63.763 ms

Loss rate: 3.50%

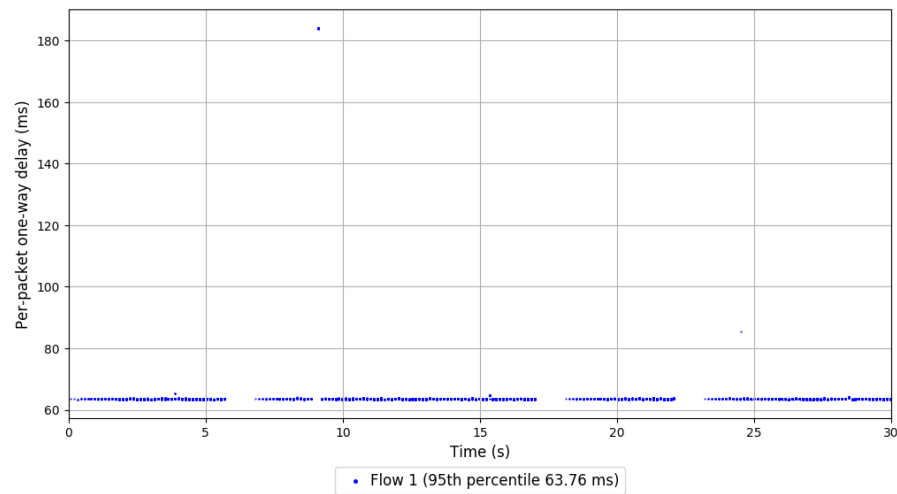
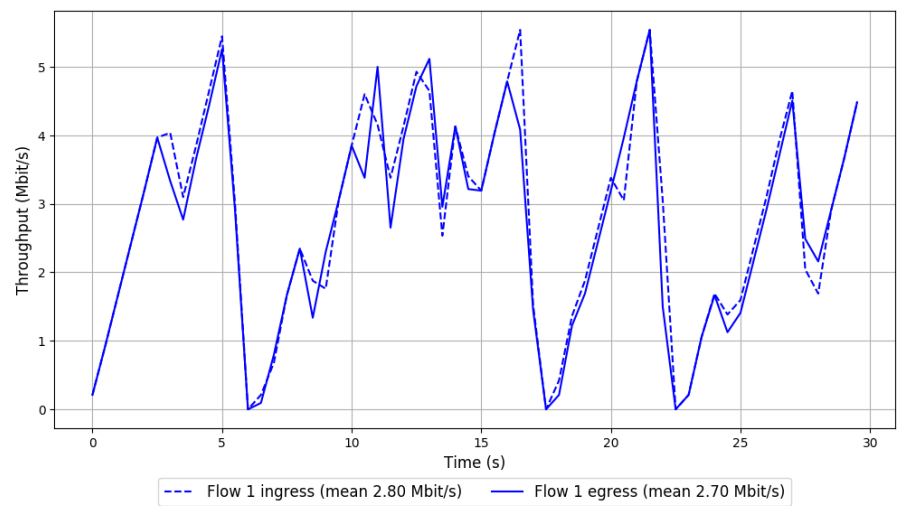
-- Flow 1:

Average throughput: 2.70 Mbit/s

95th percentile per-packet one-way delay: 63.763 ms

Loss rate: 3.50%

Run 10: Report of LEDBAT — Data Link

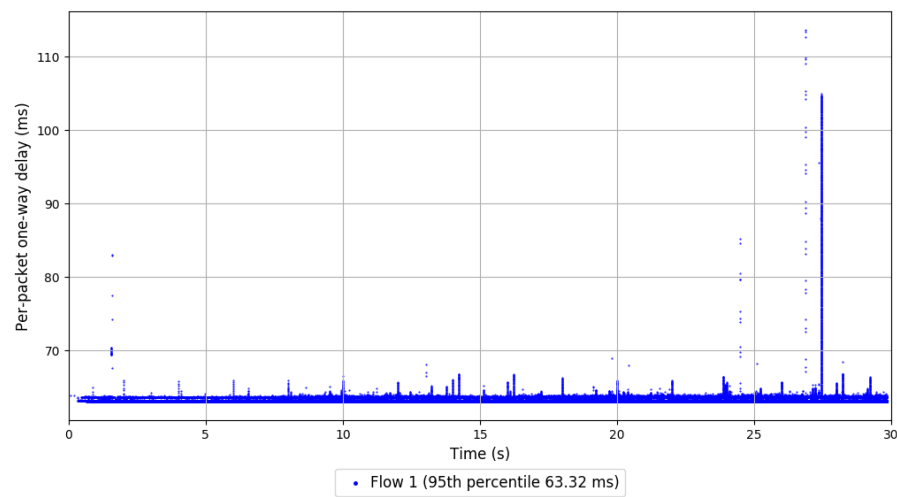
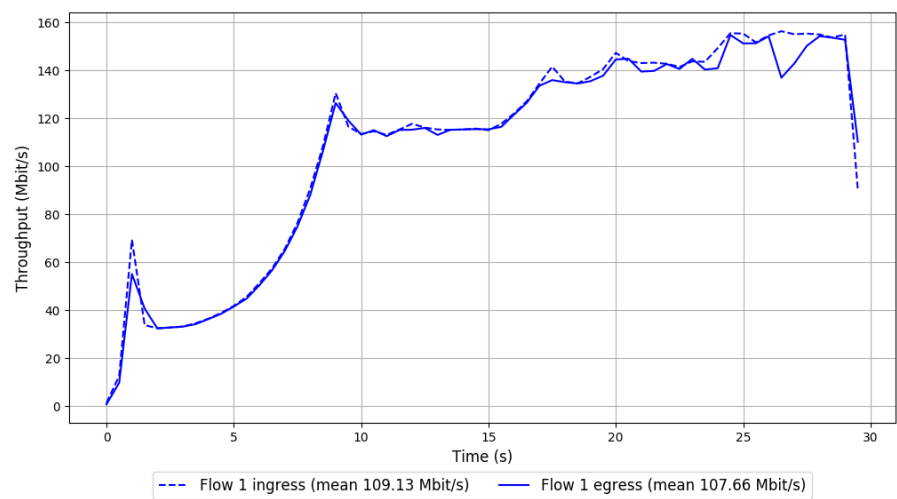


```
Run 1: Statistics of PCC

Start at: 2017-08-17 06:17:22
End at: 2017-08-17 06:17:52

# Below is generated by plot.py at 2017-08-17 09:06:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 107.66 Mbit/s
95th percentile per-packet one-way delay: 63.322 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 107.66 Mbit/s
95th percentile per-packet one-way delay: 63.322 ms
Loss rate: 1.35%
```


Run 1: Report of PCC — Data Link

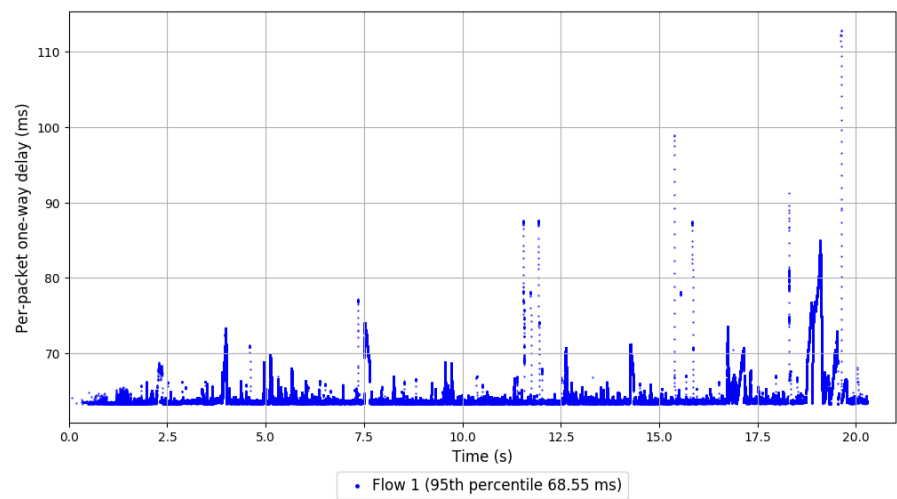
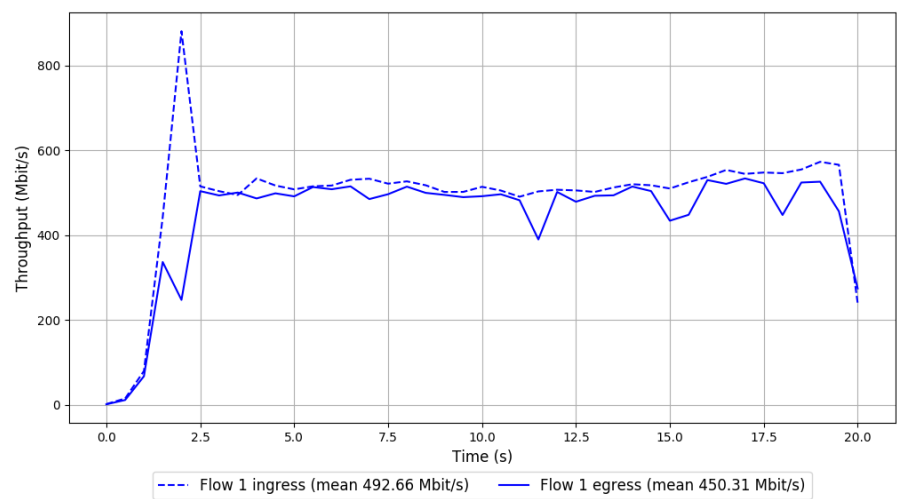


Run 2: Statistics of PCC

Start at: 2017-08-17 06:27:54

End at: 2017-08-17 06:28:24

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-08-17 06:38:26

End at: 2017-08-17 06:38:56

Below is generated by plot.py at 2017-08-17 09:07:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 357.51 Mbit/s

95th percentile per-packet one-way delay: 64.070 ms

Loss rate: 5.53%

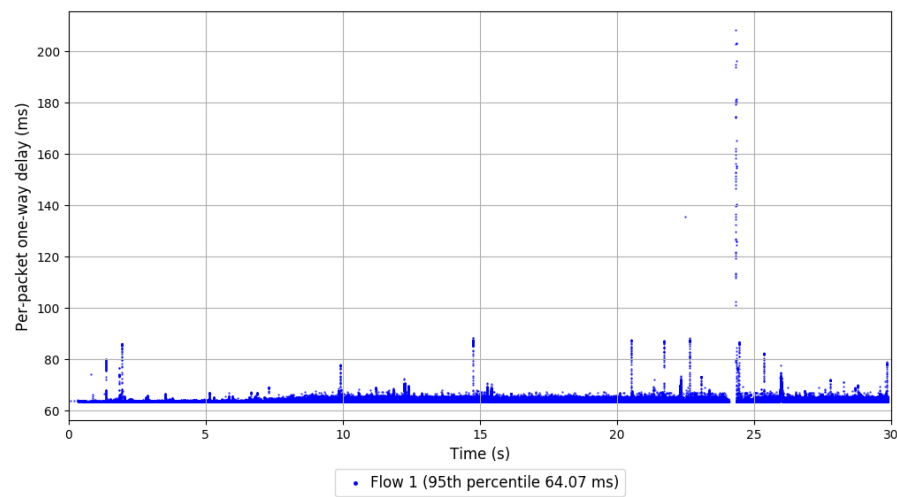
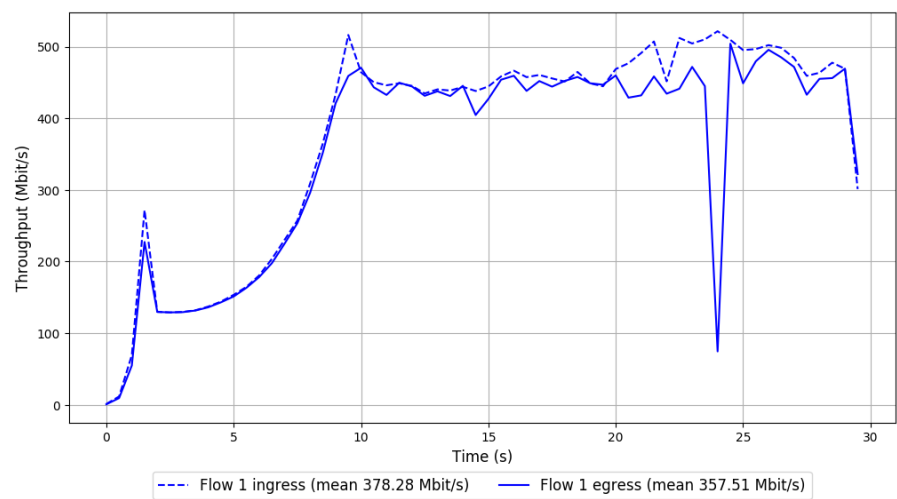
-- Flow 1:

Average throughput: 357.51 Mbit/s

95th percentile per-packet one-way delay: 64.070 ms

Loss rate: 5.53%

Run 3: Report of PCC — Data Link

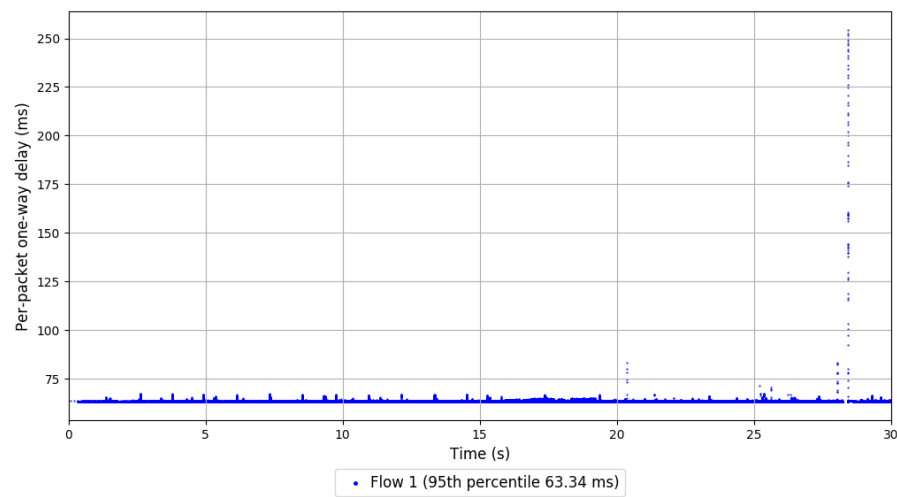
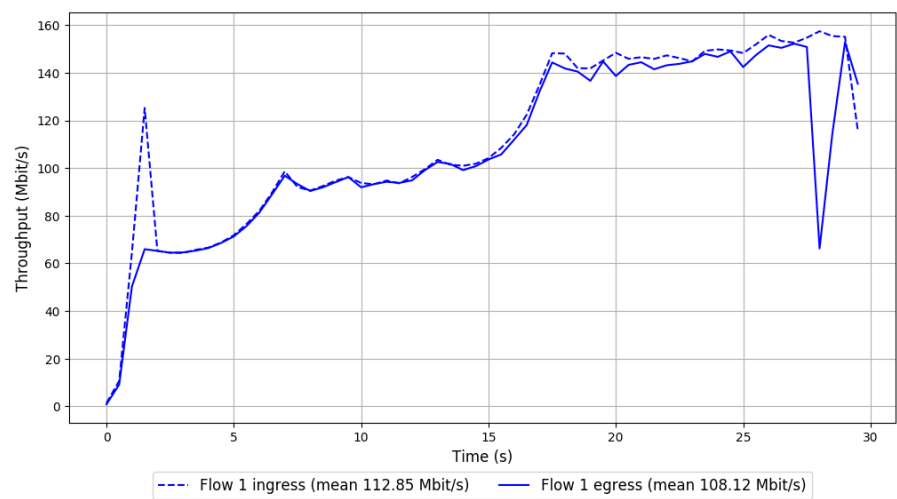


```
Run 4: Statistics of PCC

Start at: 2017-08-17 06:48:51
End at: 2017-08-17 06:49:21

# Below is generated by plot.py at 2017-08-17 09:07:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 108.12 Mbit/s
95th percentile per-packet one-way delay: 63.336 ms
Loss rate: 4.23%
-- Flow 1:
Average throughput: 108.12 Mbit/s
95th percentile per-packet one-way delay: 63.336 ms
Loss rate: 4.23%
```

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-08-17 06:59:16

End at: 2017-08-17 06:59:47

Below is generated by plot.py at 2017-08-17 09:08:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 280.08 Mbit/s

95th percentile per-packet one-way delay: 63.797 ms

Loss rate: 5.33%

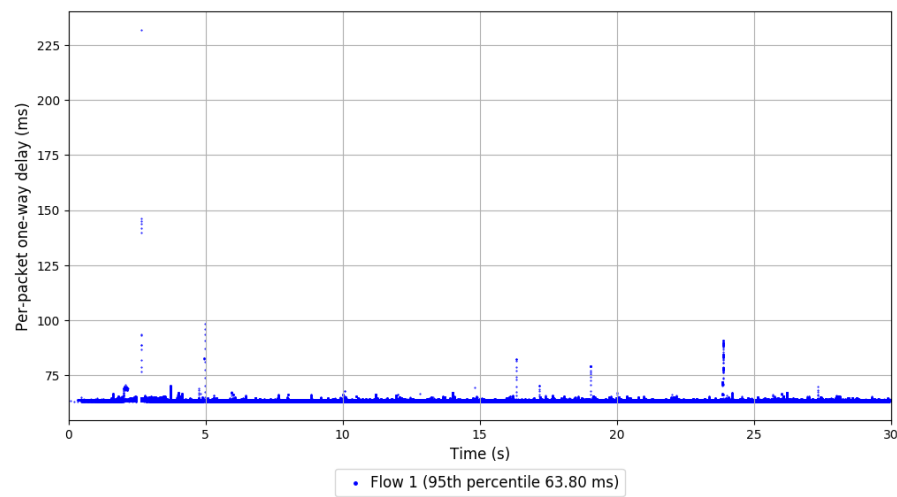
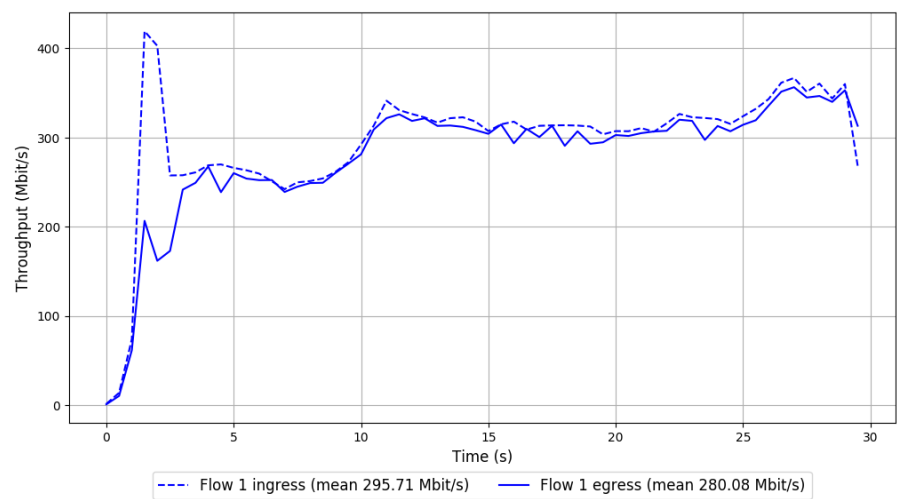
-- Flow 1:

Average throughput: 280.08 Mbit/s

95th percentile per-packet one-way delay: 63.797 ms

Loss rate: 5.33%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-08-17 07:09:33

End at: 2017-08-17 07:10:03

Below is generated by plot.py at 2017-08-17 09:08:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 442.07 Mbit/s

95th percentile per-packet one-way delay: 64.922 ms

Loss rate: 4.81%

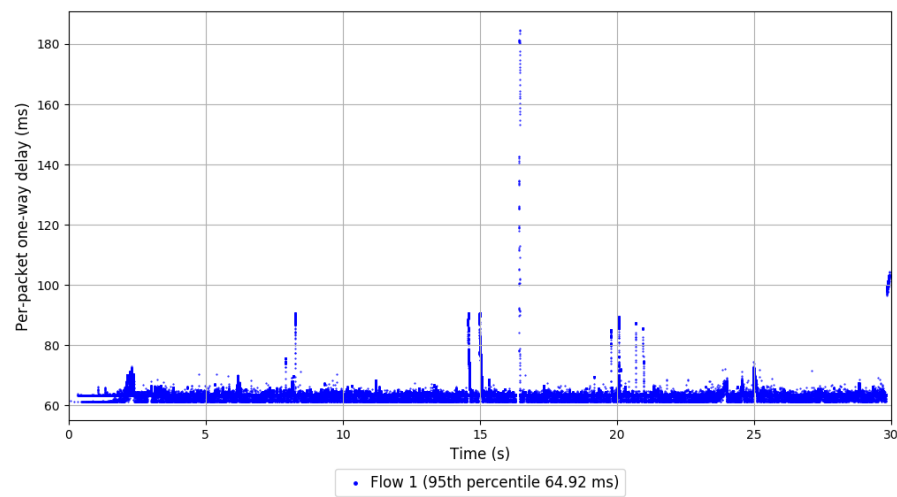
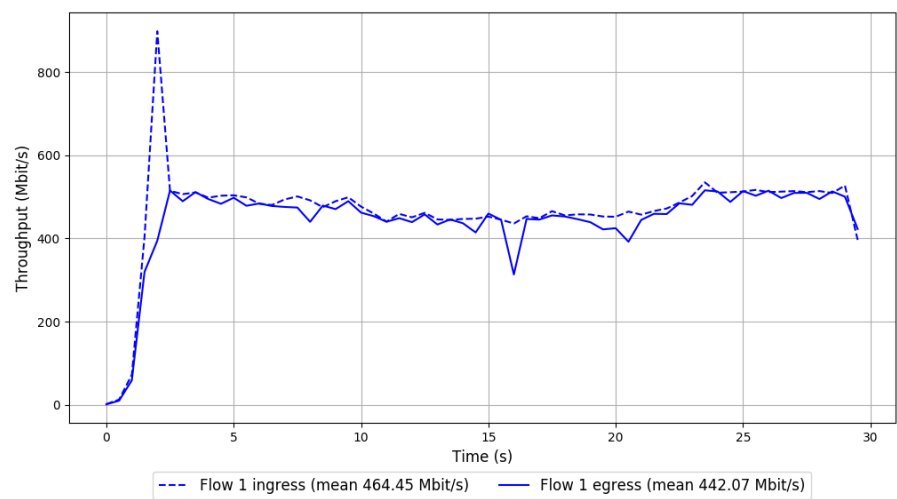
-- Flow 1:

Average throughput: 442.07 Mbit/s

95th percentile per-packet one-way delay: 64.922 ms

Loss rate: 4.81%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-08-17 07:19:48

End at: 2017-08-17 07:20:18

Below is generated by plot.py at 2017-08-17 09:09:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 377.72 Mbit/s

95th percentile per-packet one-way delay: 138.123 ms

Loss rate: 2.71%

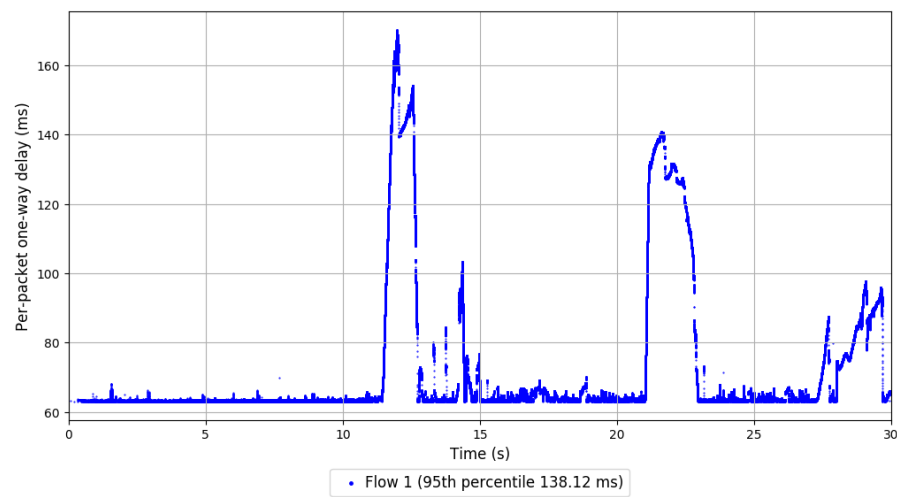
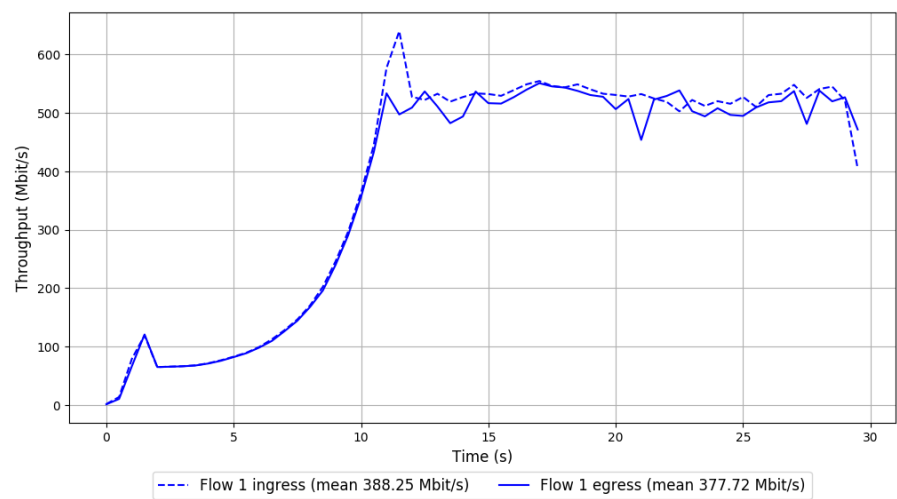
-- Flow 1:

Average throughput: 377.72 Mbit/s

95th percentile per-packet one-way delay: 138.123 ms

Loss rate: 2.71%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-08-17 07:30:04

End at: 2017-08-17 07:30:34

Below is generated by plot.py at 2017-08-17 09:10:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 477.55 Mbit/s

95th percentile per-packet one-way delay: 92.457 ms

Loss rate: 3.74%

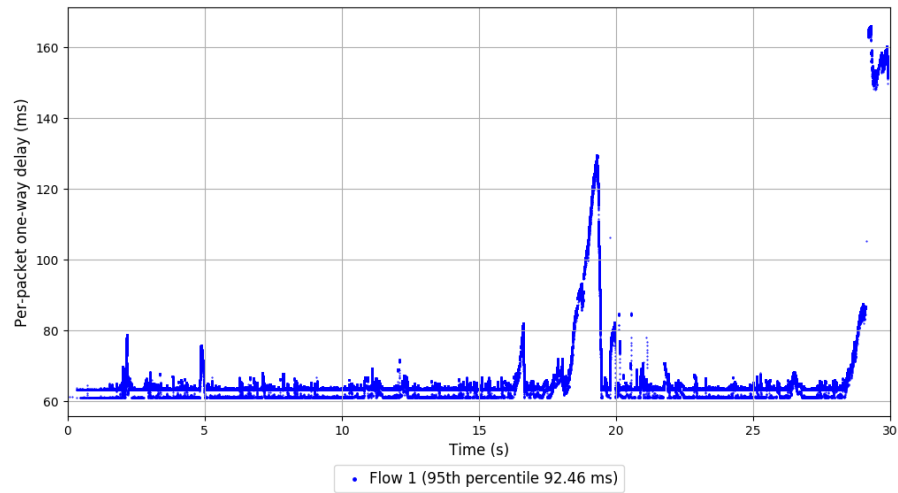
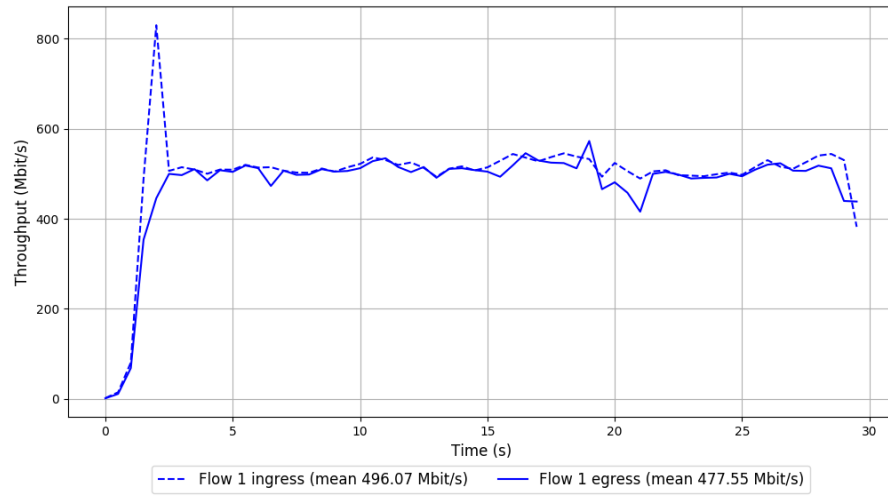
-- Flow 1:

Average throughput: 477.55 Mbit/s

95th percentile per-packet one-way delay: 92.457 ms

Loss rate: 3.74%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-08-17 07:40:32

End at: 2017-08-17 07:41:02

Below is generated by plot.py at 2017-08-17 09:10:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.83 Mbit/s

95th percentile per-packet one-way delay: 63.241 ms

Loss rate: 5.08%

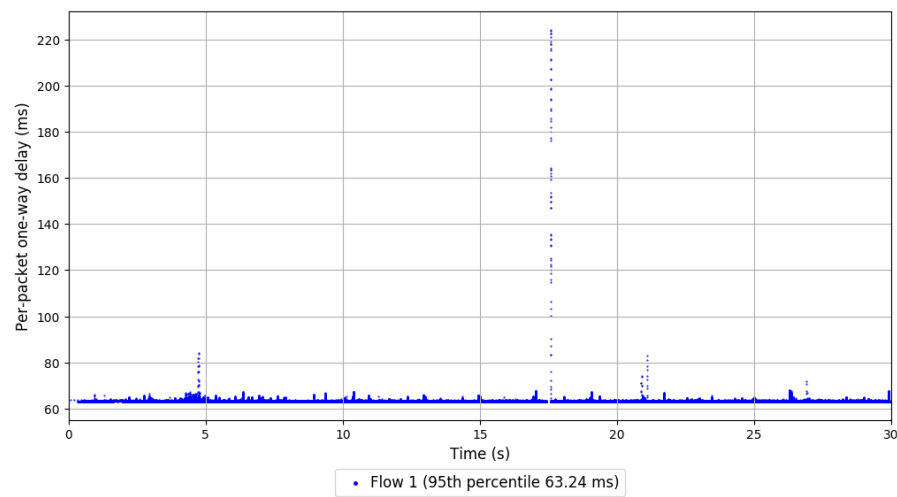
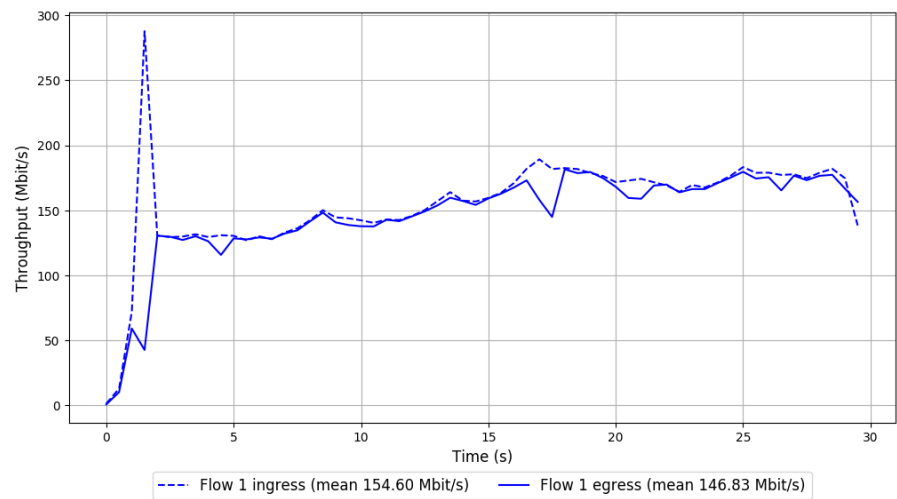
-- Flow 1:

Average throughput: 146.83 Mbit/s

95th percentile per-packet one-way delay: 63.241 ms

Loss rate: 5.08%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-08-17 07:50:35

End at: 2017-08-17 07:51:05

Below is generated by plot.py at 2017-08-17 09:10:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 118.83 Mbit/s

95th percentile per-packet one-way delay: 63.633 ms

Loss rate: 5.54%

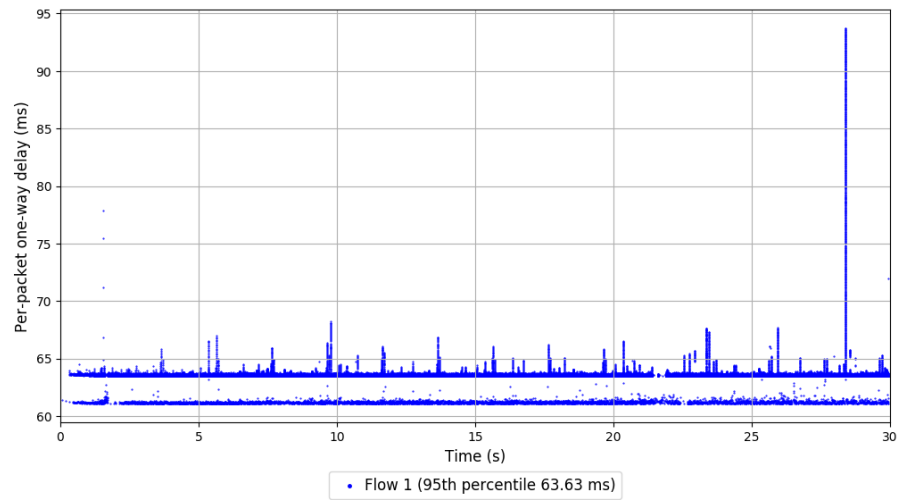
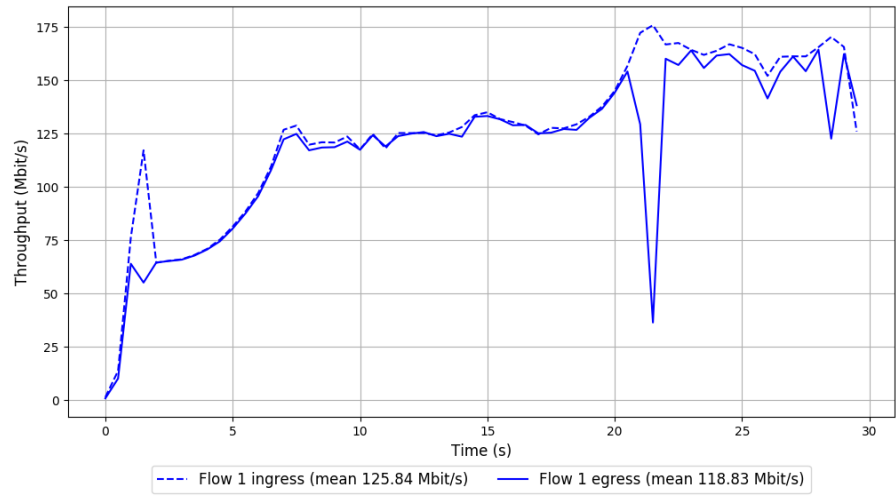
-- Flow 1:

Average throughput: 118.83 Mbit/s

95th percentile per-packet one-way delay: 63.633 ms

Loss rate: 5.54%

Run 10: Report of PCC — Data Link

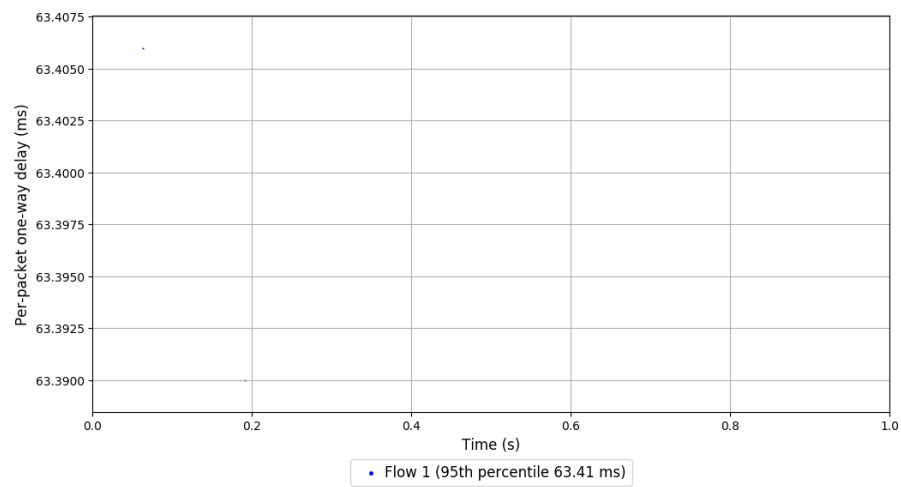
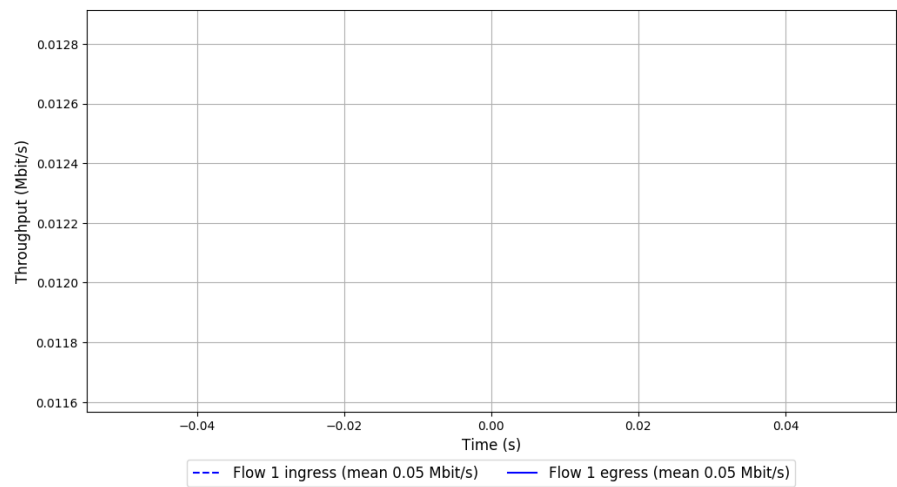


Run 1: Statistics of QUIC Cubic

Start at: 2017-08-17 06:14:40

End at: 2017-08-17 06:15:10

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-08-17 06:24:56

End at: 2017-08-17 06:25:26

Below is generated by plot.py at 2017-08-17 09:10:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.32 Mbit/s

95th percentile per-packet one-way delay: 63.717 ms

Loss rate: 0.01%

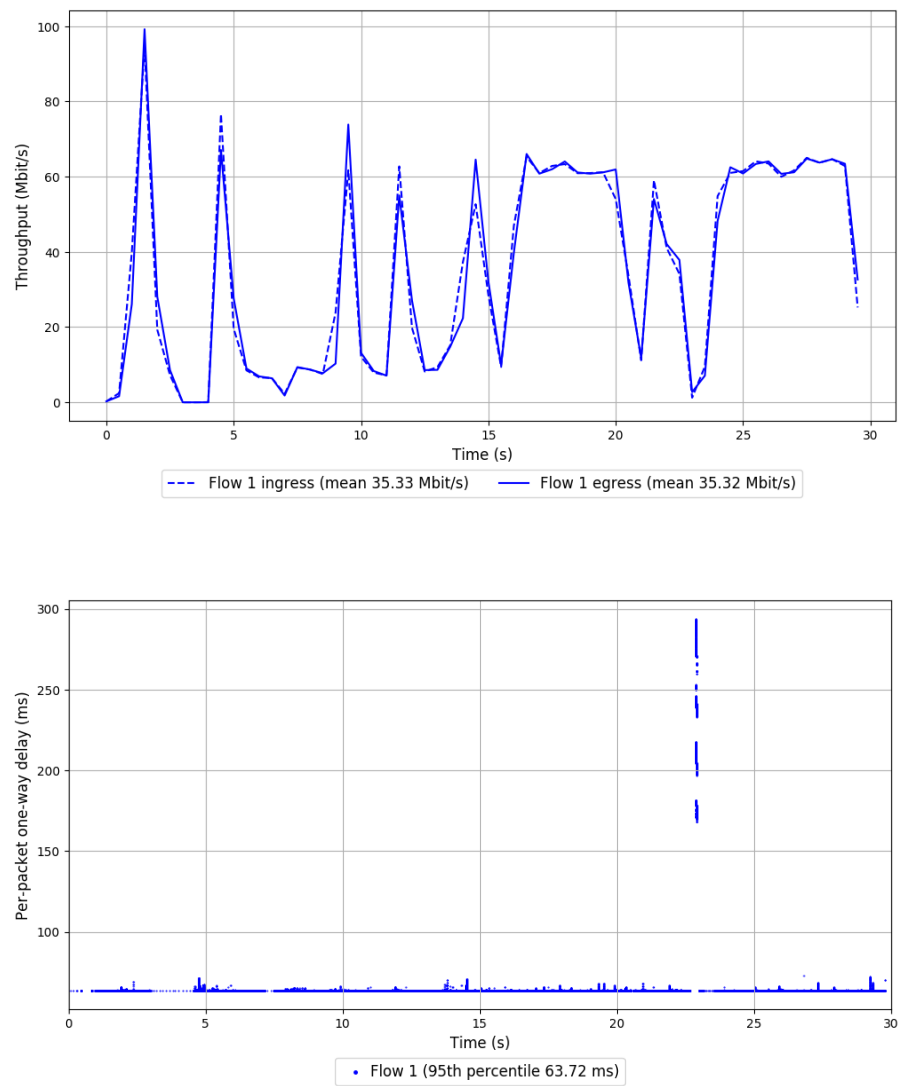
-- Flow 1:

Average throughput: 35.32 Mbit/s

95th percentile per-packet one-way delay: 63.717 ms

Loss rate: 0.01%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-08-17 06:35:30

End at: 2017-08-17 06:36:00

Below is generated by plot.py at 2017-08-17 09:10:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.83 Mbit/s

95th percentile per-packet one-way delay: 63.698 ms

Loss rate: 0.00%

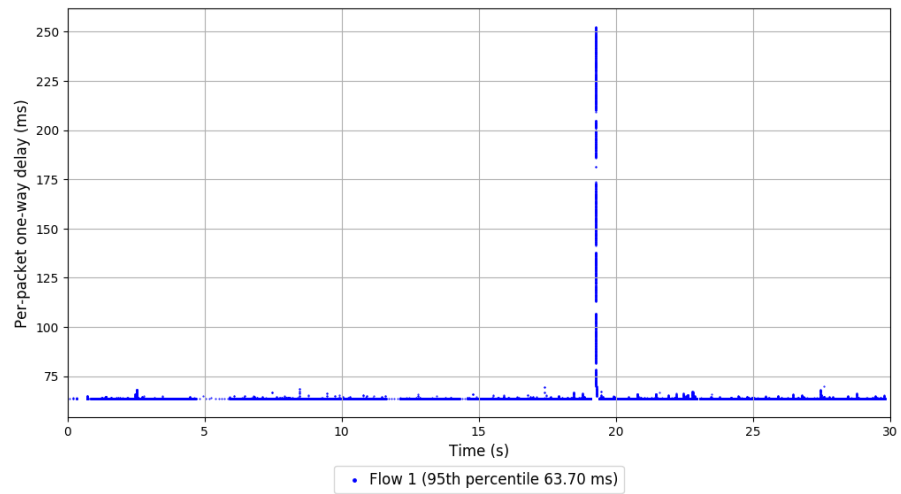
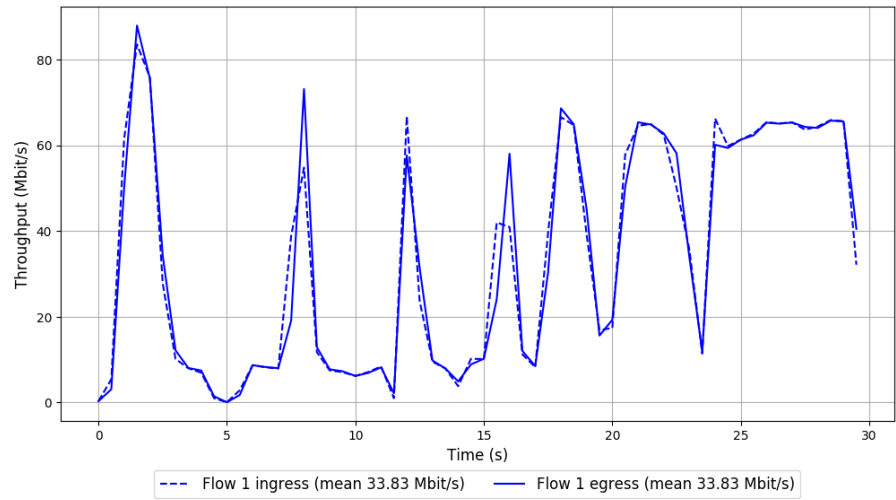
-- Flow 1:

Average throughput: 33.83 Mbit/s

95th percentile per-packet one-way delay: 63.698 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-08-17 06:46:05

End at: 2017-08-17 06:46:35

Below is generated by plot.py at 2017-08-17 09:10:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.65 Mbit/s

95th percentile per-packet one-way delay: 63.181 ms

Loss rate: 0.00%

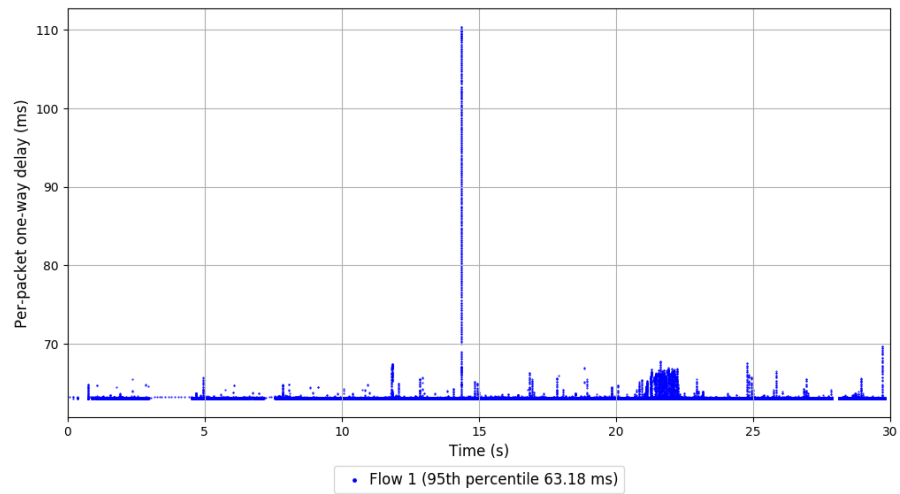
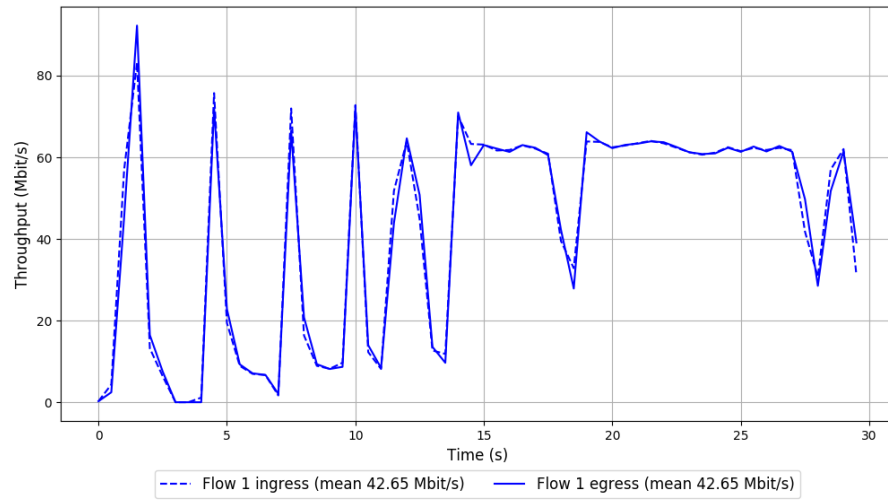
-- Flow 1:

Average throughput: 42.65 Mbit/s

95th percentile per-packet one-way delay: 63.181 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-08-17 06:56:37

End at: 2017-08-17 06:57:07

Below is generated by plot.py at 2017-08-17 09:10:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.50 Mbit/s

95th percentile per-packet one-way delay: 63.383 ms

Loss rate: 0.00%

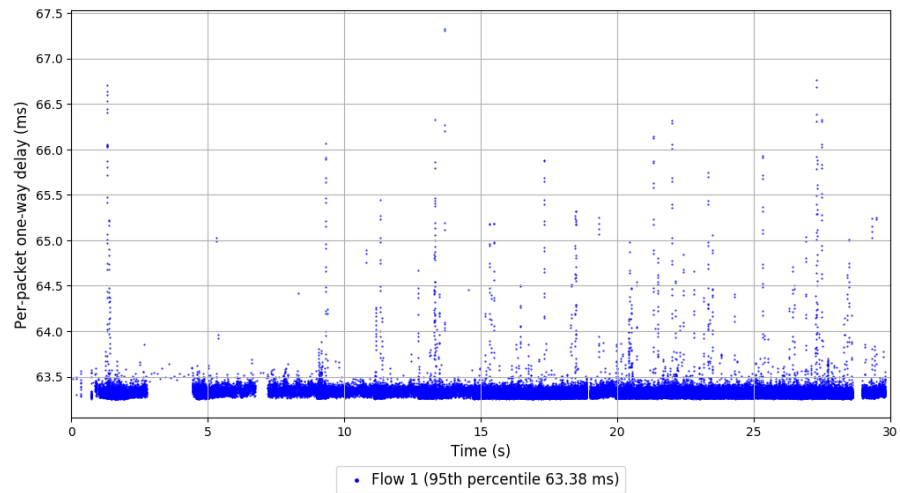
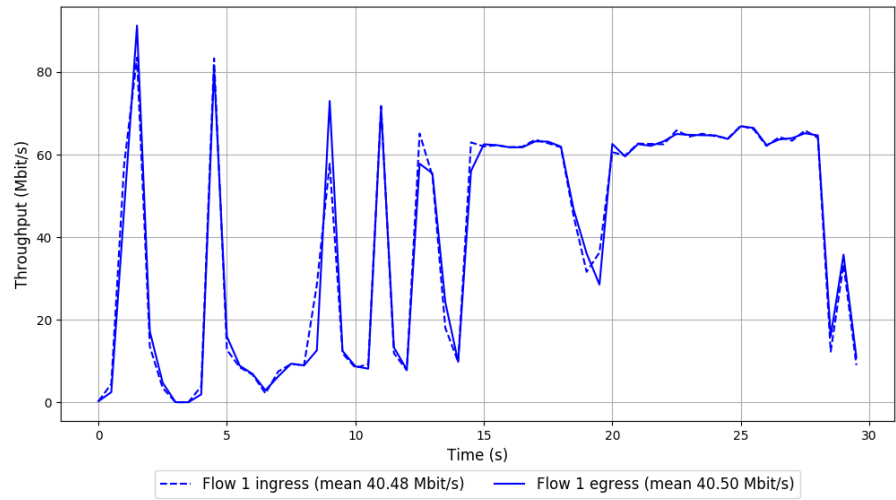
-- Flow 1:

Average throughput: 40.50 Mbit/s

95th percentile per-packet one-way delay: 63.383 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-08-17 07:06:48

End at: 2017-08-17 07:07:18

Below is generated by plot.py at 2017-08-17 09:10:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.49 Mbit/s

95th percentile per-packet one-way delay: 63.418 ms

Loss rate: 0.00%

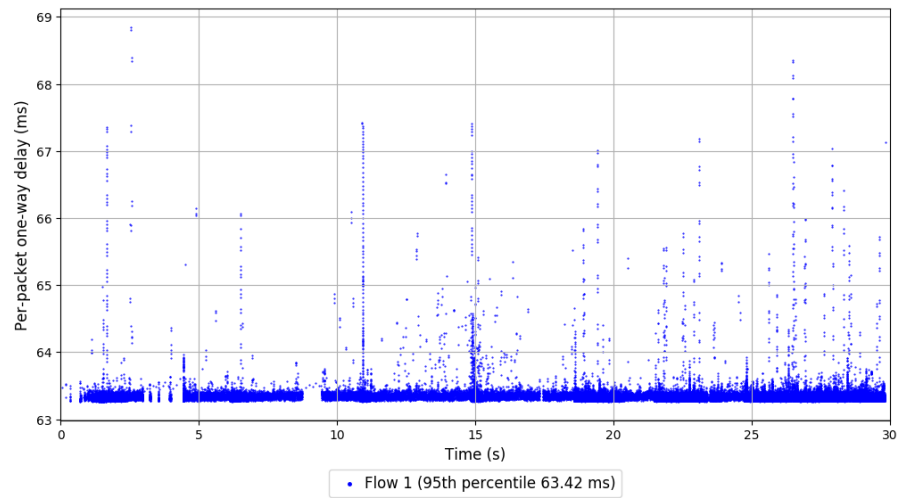
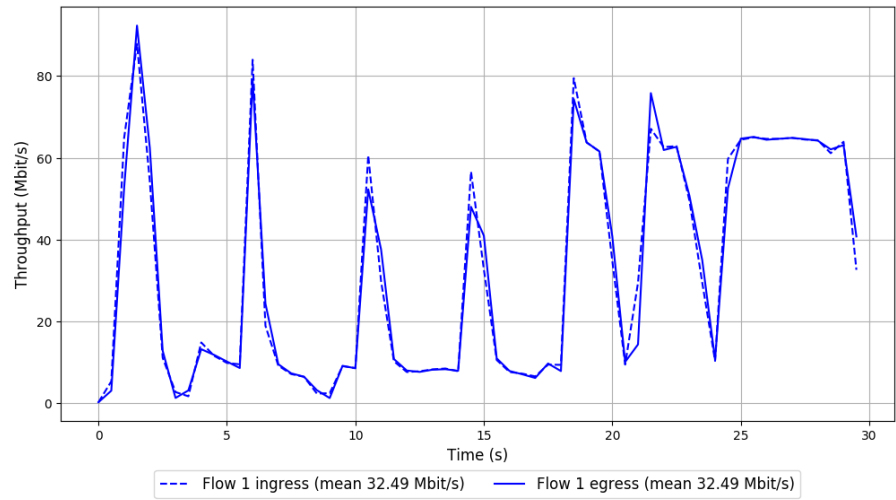
-- Flow 1:

Average throughput: 32.49 Mbit/s

95th percentile per-packet one-way delay: 63.418 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-08-17 07:17:02

End at: 2017-08-17 07:17:32

Below is generated by plot.py at 2017-08-17 09:10:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.10 Mbit/s

95th percentile per-packet one-way delay: 63.390 ms

Loss rate: 0.00%

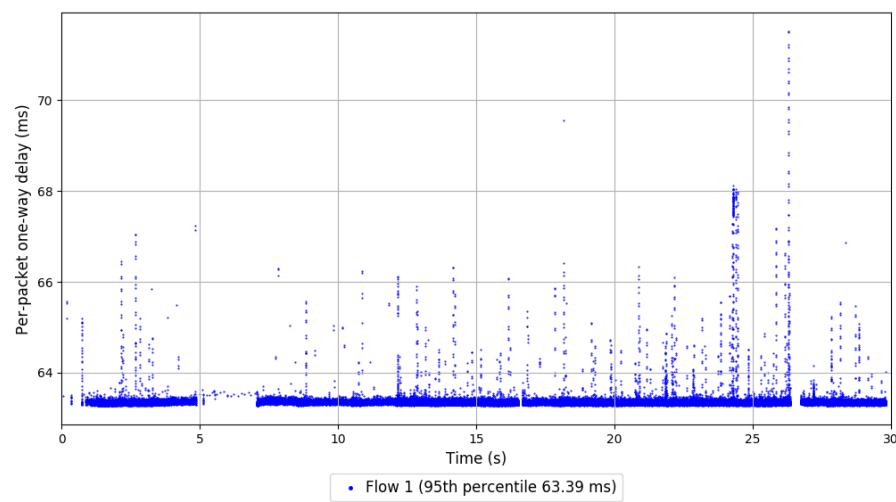
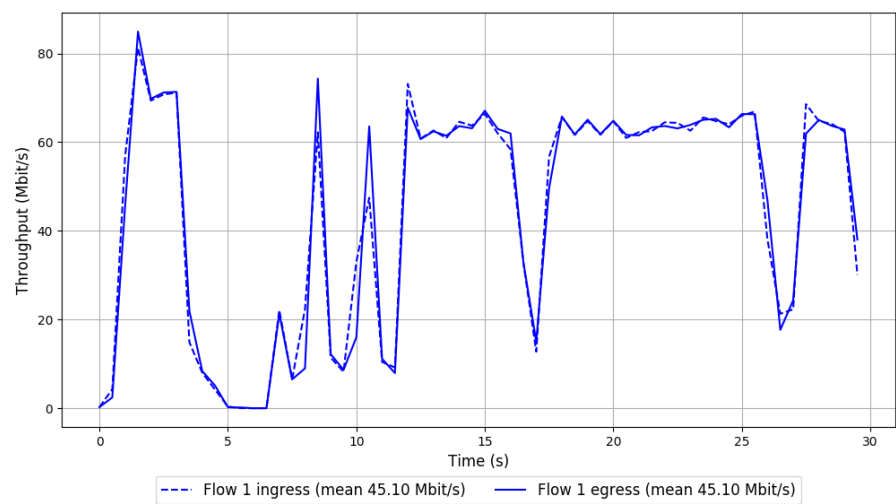
-- Flow 1:

Average throughput: 45.10 Mbit/s

95th percentile per-packet one-way delay: 63.390 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-08-17 07:27:31

End at: 2017-08-17 07:28:01

Below is generated by plot.py at 2017-08-17 09:10:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.39 Mbit/s

95th percentile per-packet one-way delay: 61.247 ms

Loss rate: 0.00%

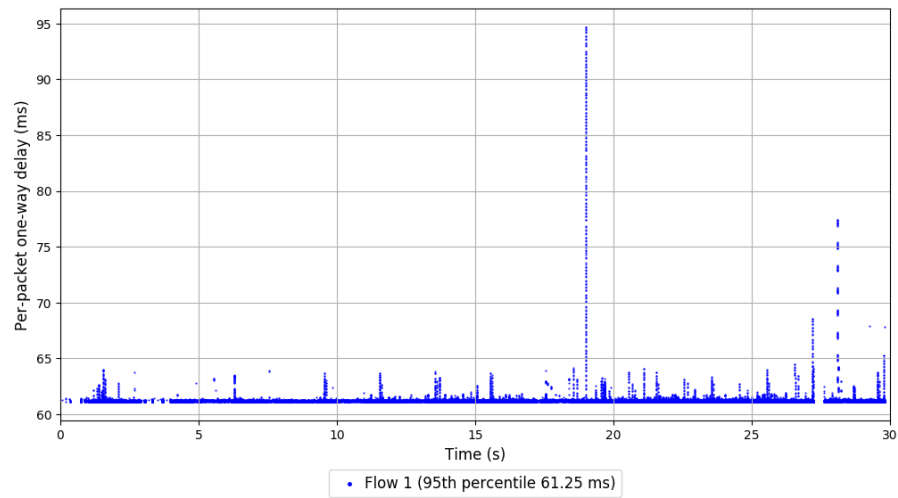
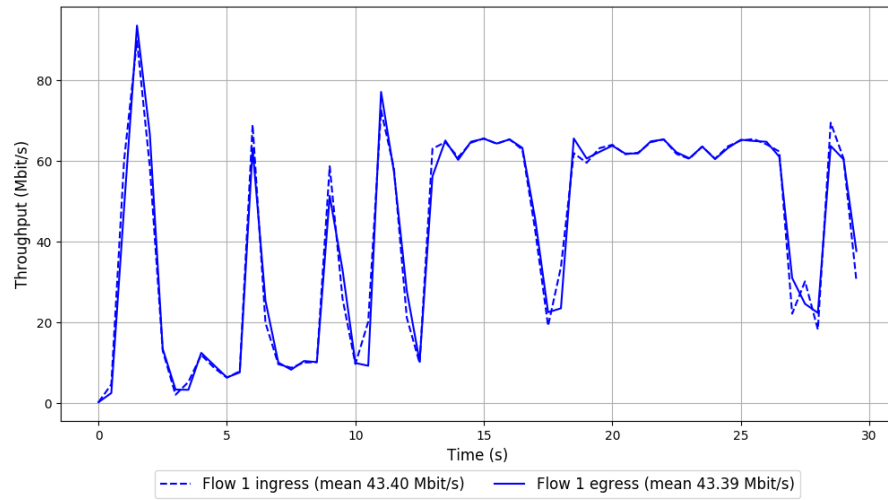
-- Flow 1:

Average throughput: 43.39 Mbit/s

95th percentile per-packet one-way delay: 61.247 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-08-17 07:37:48

End at: 2017-08-17 07:38:18

Below is generated by plot.py at 2017-08-17 09:10:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.82 Mbit/s

95th percentile per-packet one-way delay: 63.393 ms

Loss rate: 0.00%

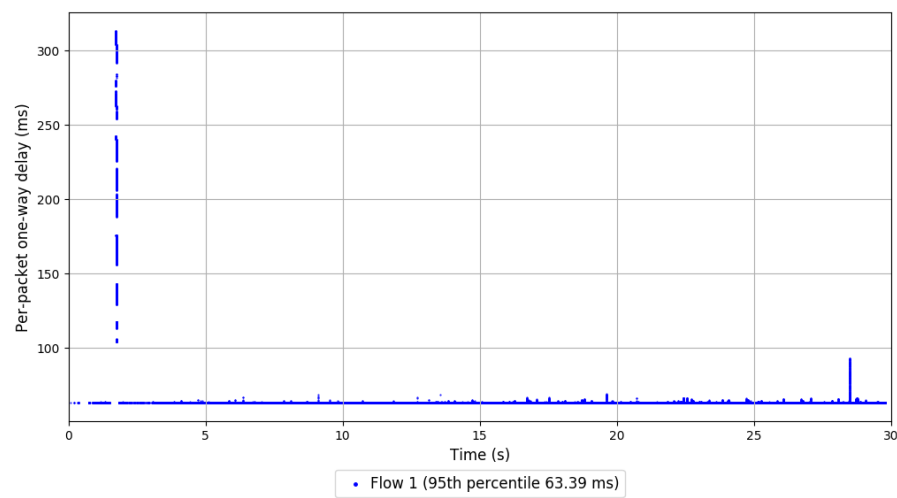
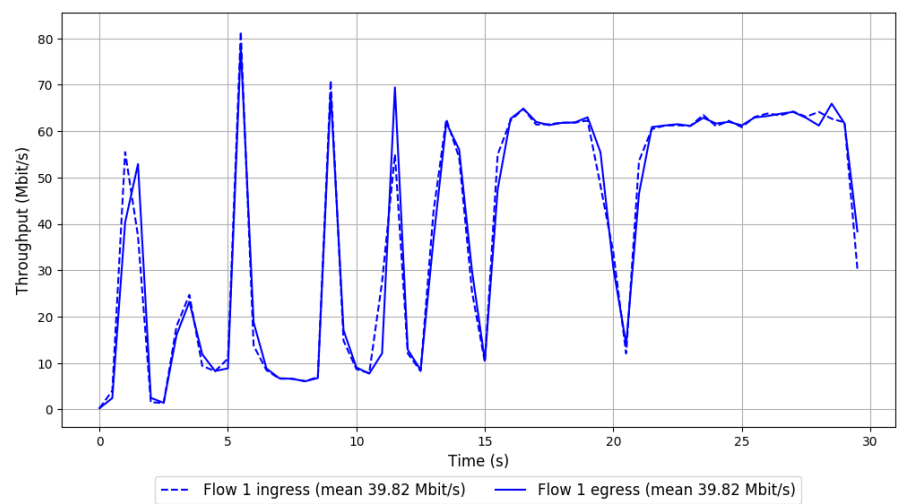
-- Flow 1:

Average throughput: 39.82 Mbit/s

95th percentile per-packet one-way delay: 63.393 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

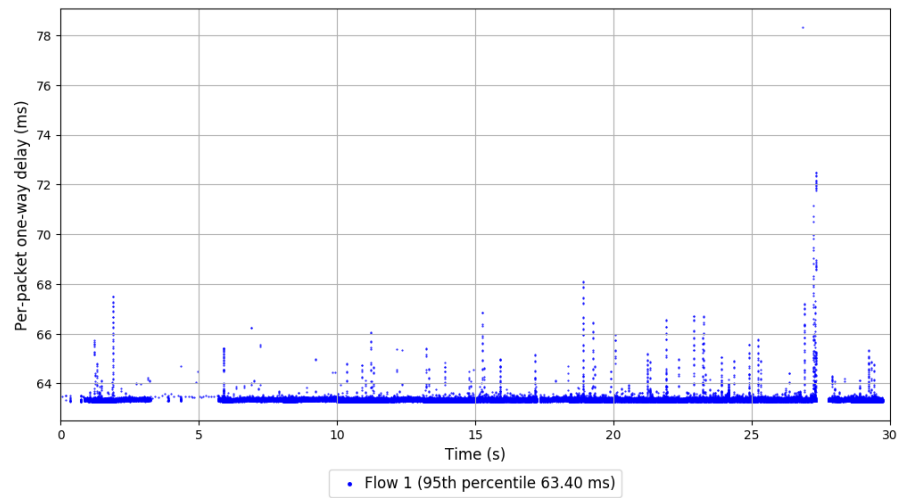
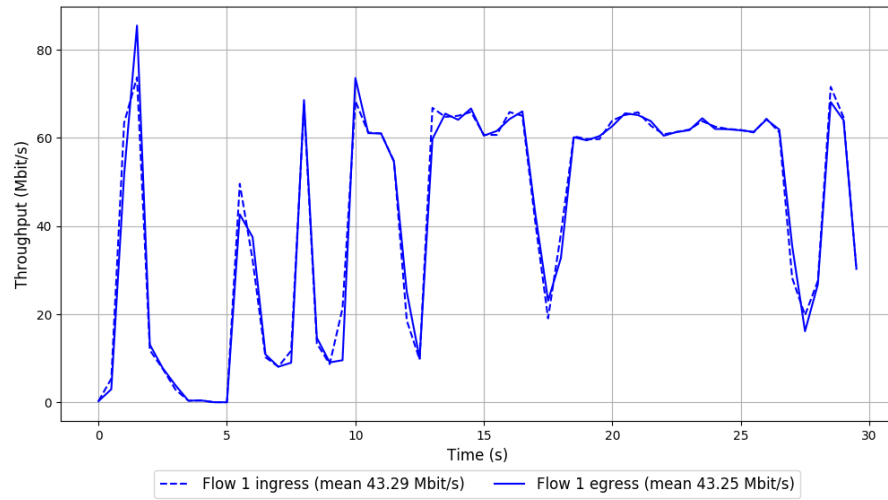


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-08-17 07:47:49
End at: 2017-08-17 07:48:19

# Below is generated by plot.py at 2017-08-17 09:10:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 43.25 Mbit/s
95th percentile per-packet one-way delay: 63.397 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 43.25 Mbit/s
95th percentile per-packet one-way delay: 63.397 ms
Loss rate: 0.32%
```

Run 10: Report of QUIC Cubic — Data Link

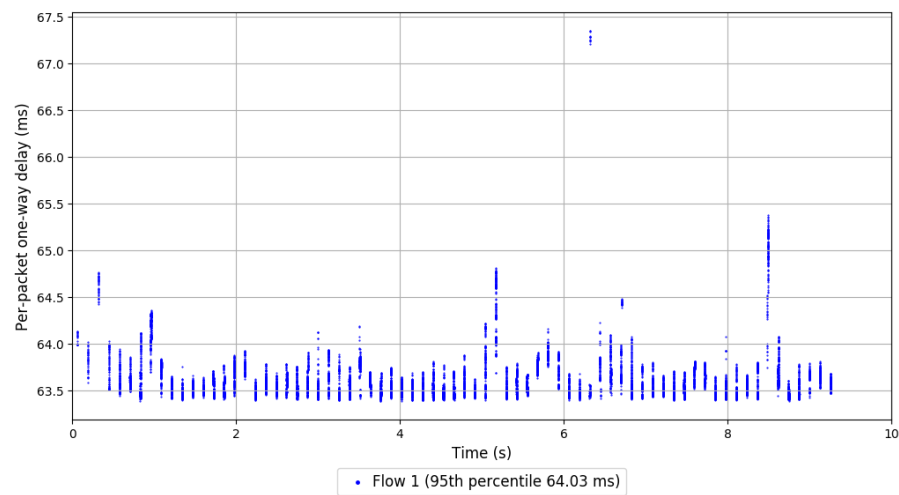
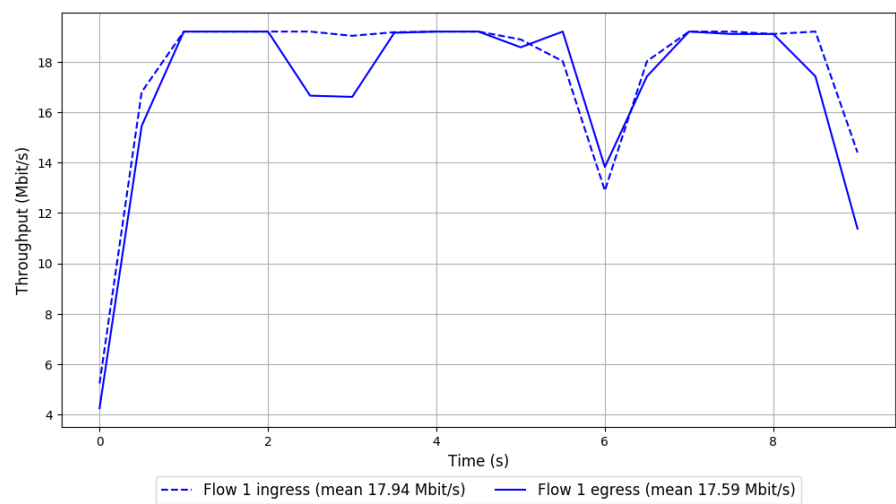


Run 1: Statistics of Saturator

Start at: 2017-08-17 06:16:44

End at: 2017-08-17 06:17:14

Run 1: Report of Saturator — Data Link



Run 2: Statistics of Saturator

Start at: 2017-08-17 06:27:15

End at: 2017-08-17 06:27:45

Below is generated by plot.py at 2017-08-17 09:10:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.28 Mbit/s

95th percentile per-packet one-way delay: 64.249 ms

Loss rate: 1.06%

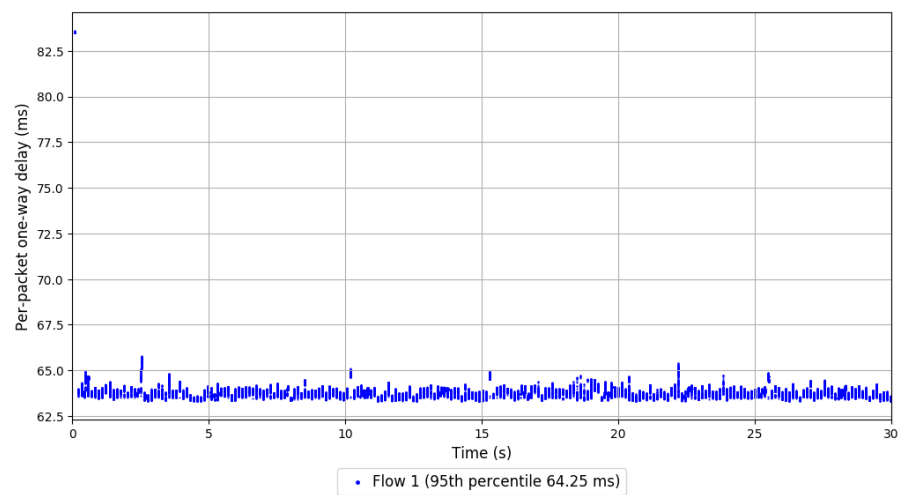
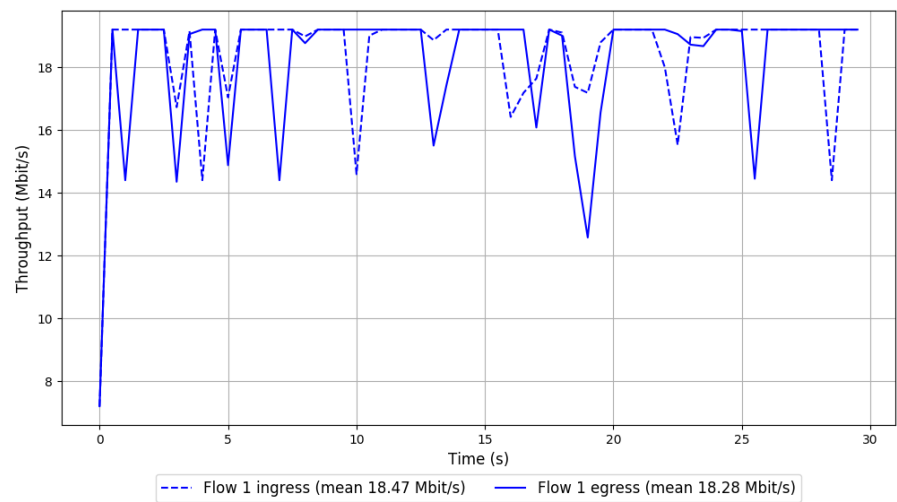
-- Flow 1:

Average throughput: 18.28 Mbit/s

95th percentile per-packet one-way delay: 64.249 ms

Loss rate: 1.06%

Run 2: Report of Saturator — Data Link

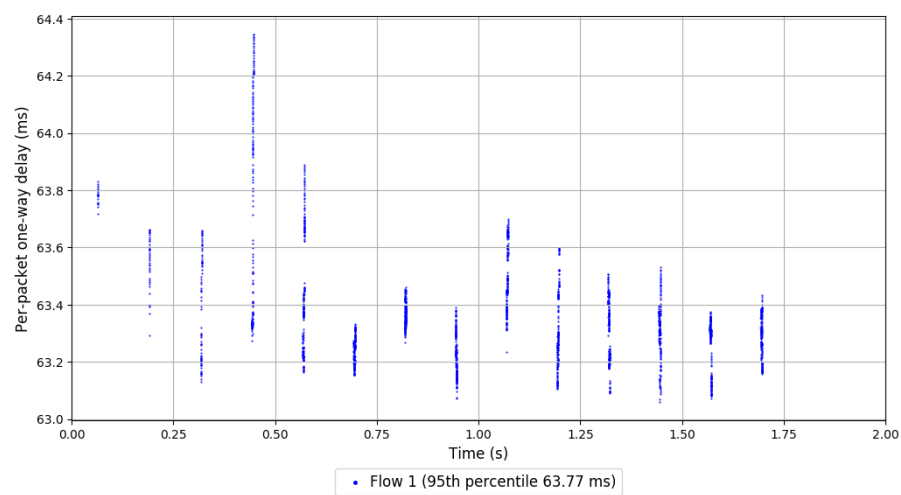
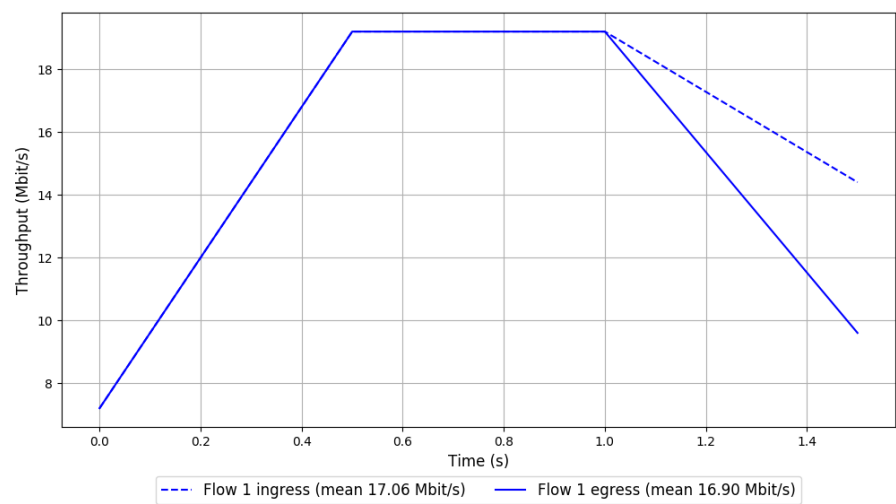


Run 3: Statistics of Saturator

Start at: 2017-08-17 06:37:48

End at: 2017-08-17 06:38:18

Run 3: Report of Saturator — Data Link

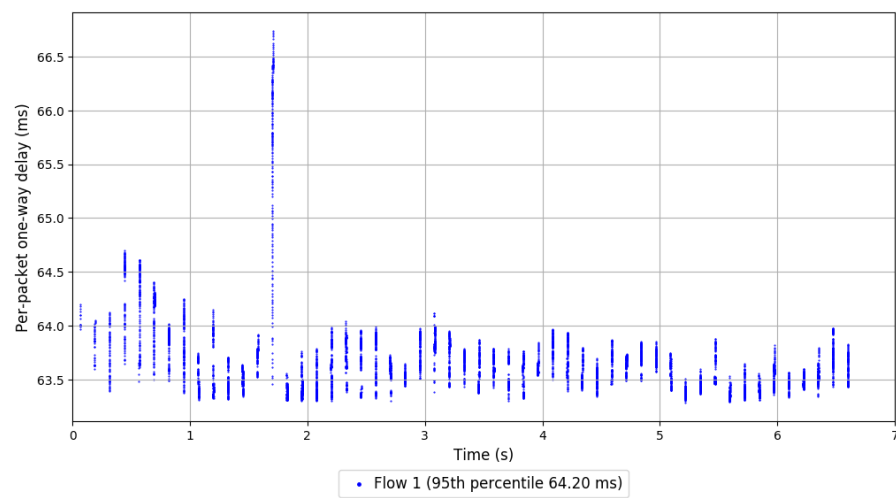
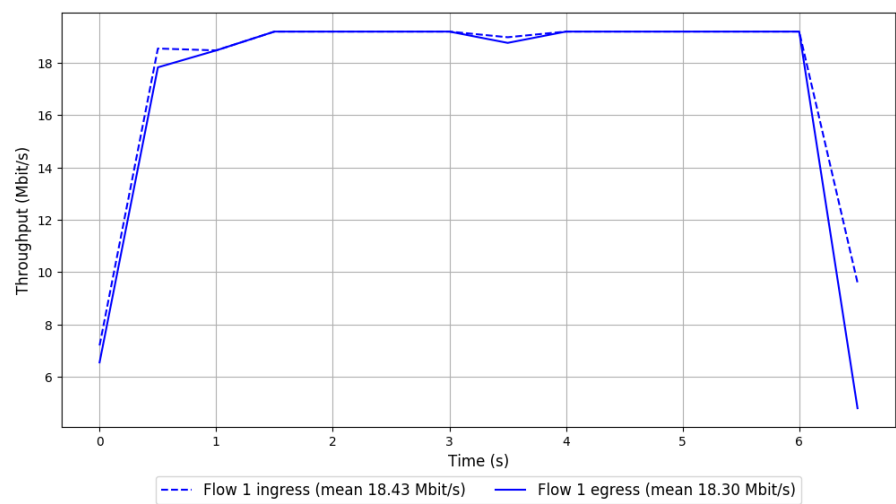


Run 4: Statistics of Saturator

Start at: 2017-08-17 06:48:13

End at: 2017-08-17 06:48:43

Run 4: Report of Saturator — Data Link



Run 5: Statistics of Saturator

Start at: 2017-08-17 06:58:38

End at: 2017-08-17 06:59:08

Below is generated by plot.py at 2017-08-17 09:10:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.92 Mbit/s

95th percentile per-packet one-way delay: 64.361 ms

Loss rate: 38.89%

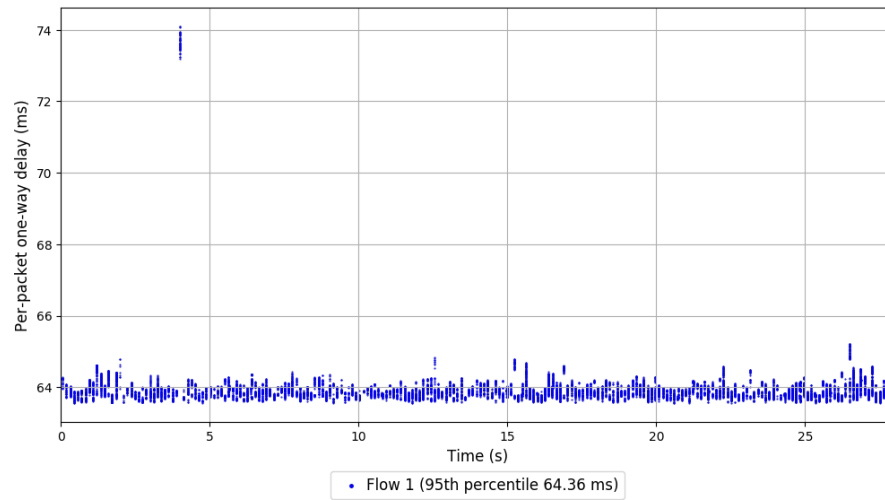
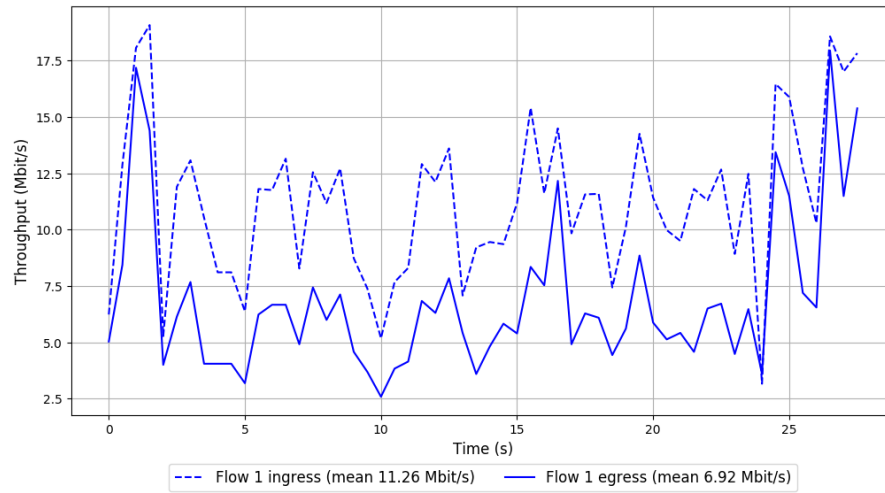
-- Flow 1:

Average throughput: 6.92 Mbit/s

95th percentile per-packet one-way delay: 64.361 ms

Loss rate: 38.89%

Run 5: Report of Saturator — Data Link



Run 6: Statistics of Saturator

Start at: 2017-08-17 07:08:54

End at: 2017-08-17 07:09:24

Below is generated by plot.py at 2017-08-17 09:10:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.16 Mbit/s

95th percentile per-packet one-way delay: 64.156 ms

Loss rate: 1.19%

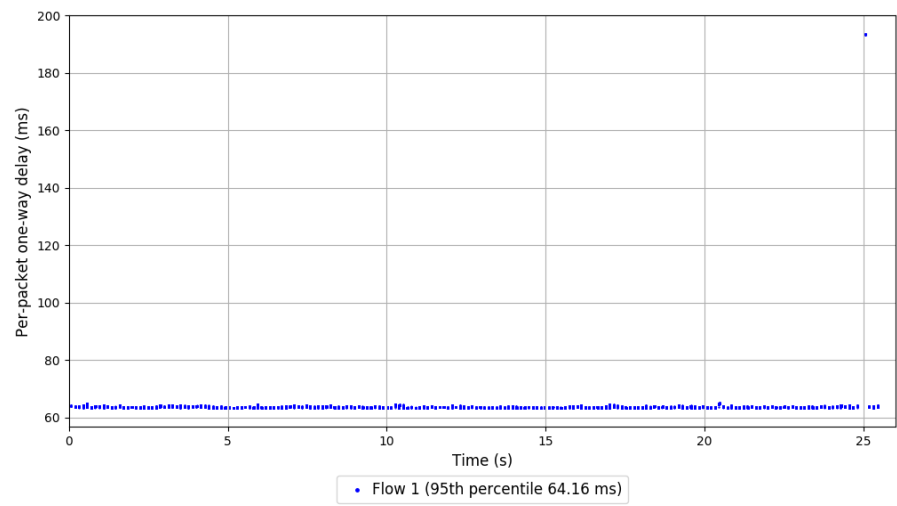
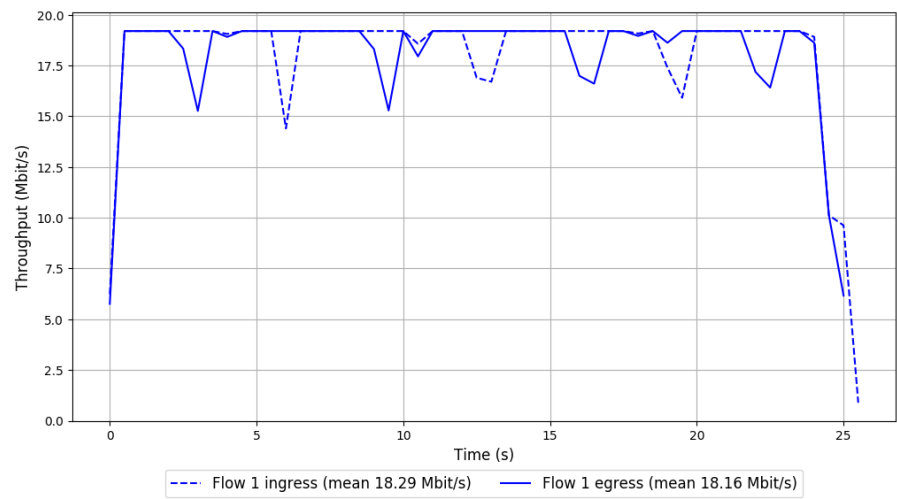
-- Flow 1:

Average throughput: 18.16 Mbit/s

95th percentile per-packet one-way delay: 64.156 ms

Loss rate: 1.19%

Run 6: Report of Saturator — Data Link

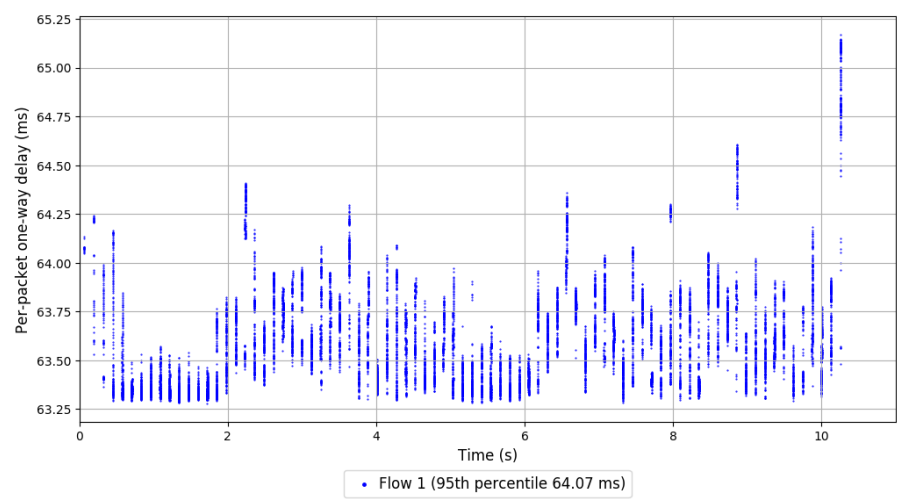
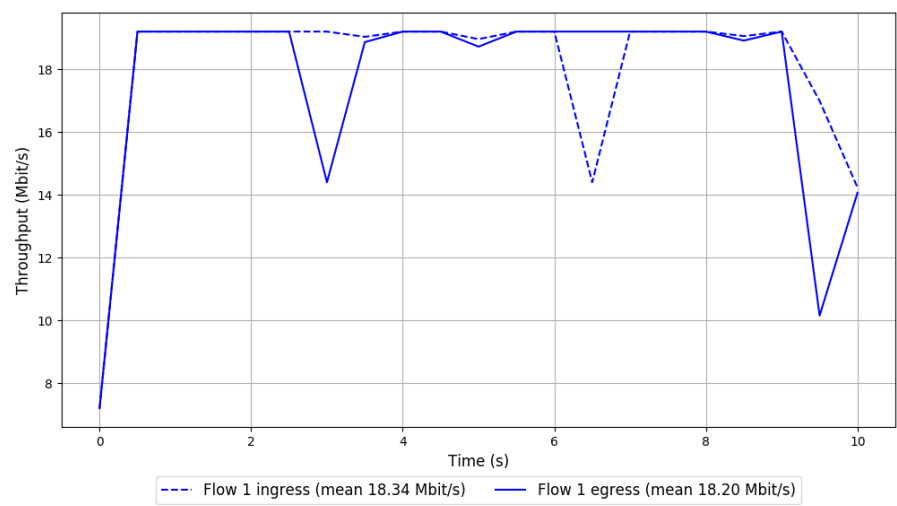


Run 7: Statistics of Saturator

Start at: 2017-08-17 07:19:09

End at: 2017-08-17 07:19:39

Run 7: Report of Saturator — Data Link

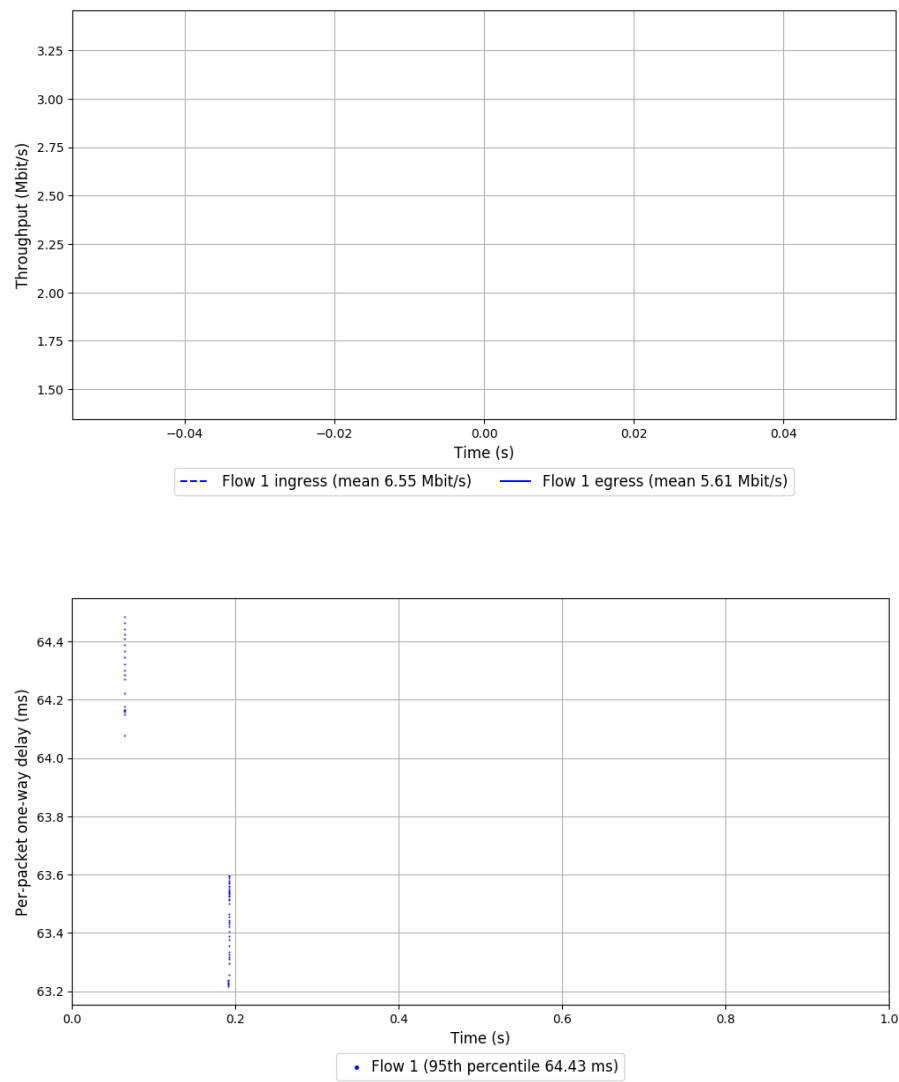


Run 8: Statistics of Saturator

Start at: 2017-08-17 07:29:27

End at: 2017-08-17 07:29:57

Run 8: Report of Saturator — Data Link



Run 9: Statistics of Saturator

Start at: 2017-08-17 07:39:52

End at: 2017-08-17 07:40:22

Below is generated by plot.py at 2017-08-17 09:10:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.60 Mbit/s

95th percentile per-packet one-way delay: 64.265 ms

Loss rate: 0.95%

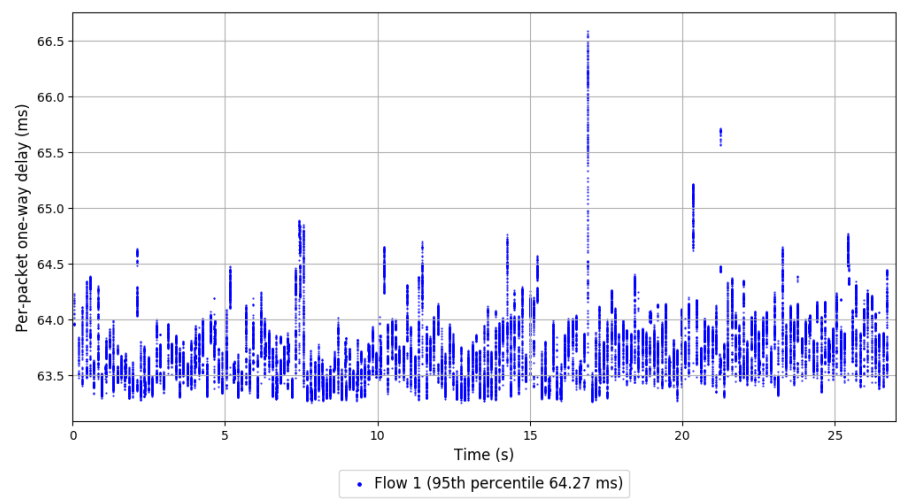
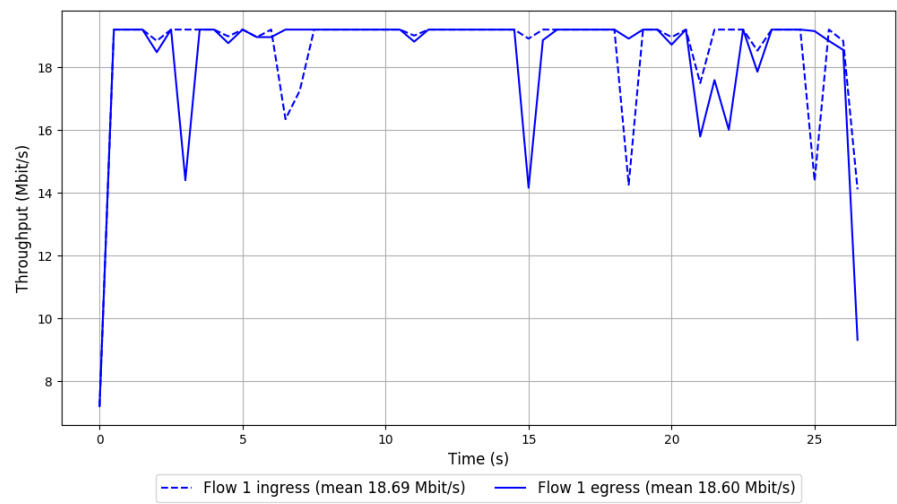
-- Flow 1:

Average throughput: 18.60 Mbit/s

95th percentile per-packet one-way delay: 64.265 ms

Loss rate: 0.95%

Run 9: Report of Saturator — Data Link

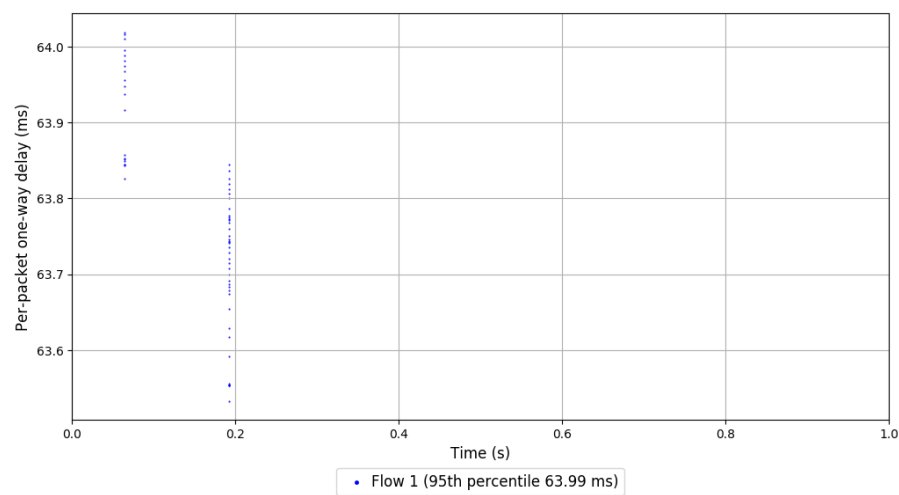
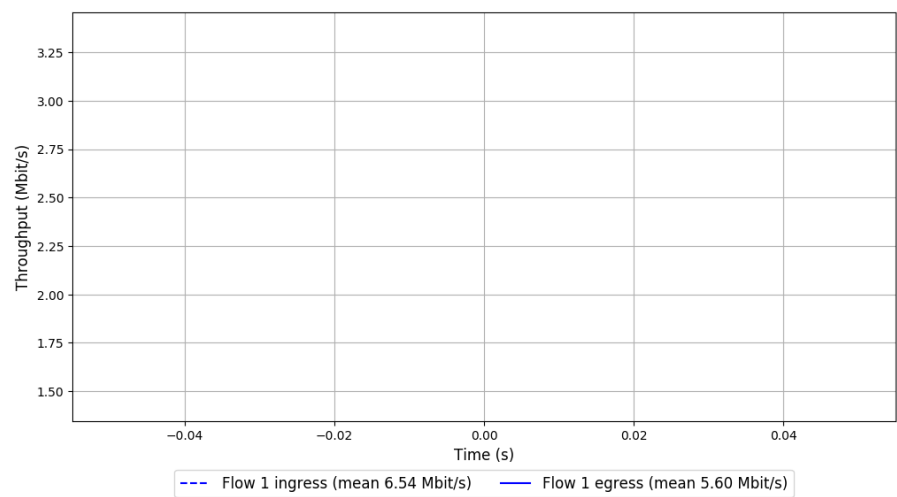


Run 10: Statistics of Saturator

Start at: 2017-08-17 07:49:57

End at: 2017-08-17 07:50:28

Run 10: Report of Saturator — Data Link

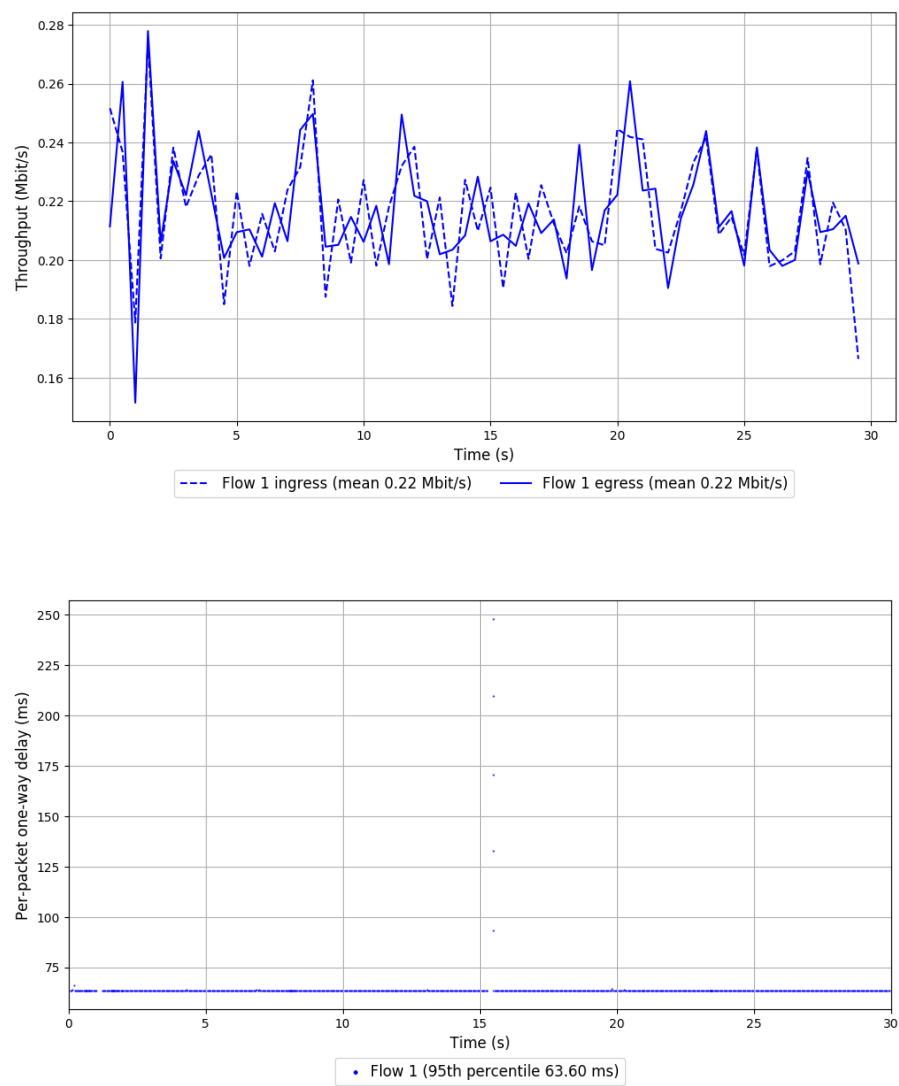


```
Run 1: Statistics of SCReAM

Start at: 2017-08-17 06:18:04
End at: 2017-08-17 06:18:34

# Below is generated by plot.py at 2017-08-17 09:10:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.601 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.601 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2017-08-17 06:28:44

End at: 2017-08-17 06:29:14

Below is generated by plot.py at 2017-08-17 09:10:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.637 ms

Loss rate: 0.00%

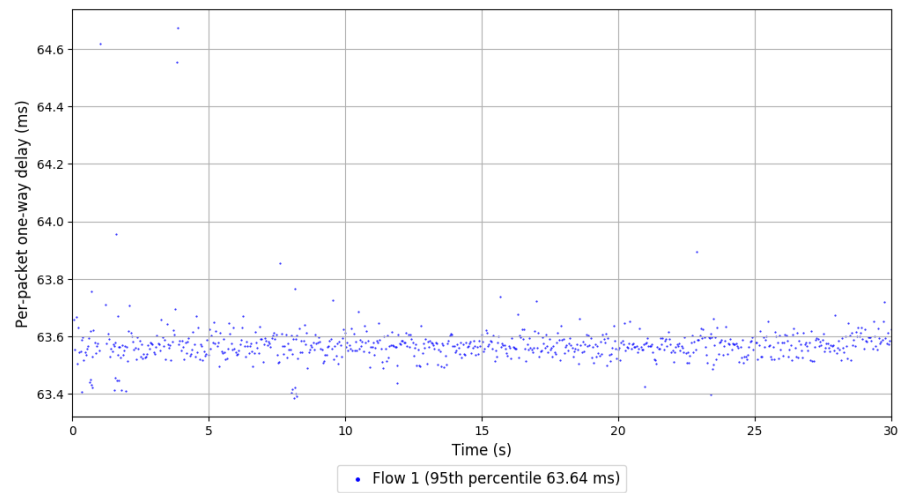
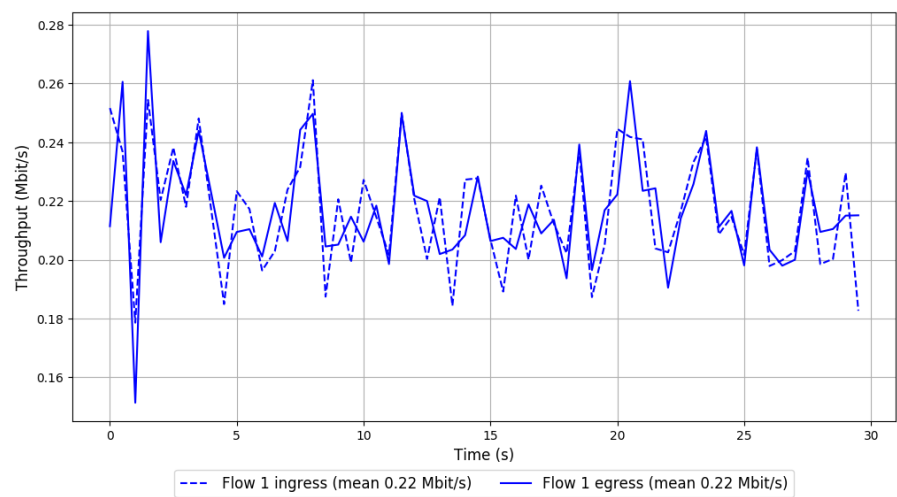
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.637 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-08-17 06:39:17

End at: 2017-08-17 06:39:47

Below is generated by plot.py at 2017-08-17 09:10:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.610 ms

Loss rate: 0.00%

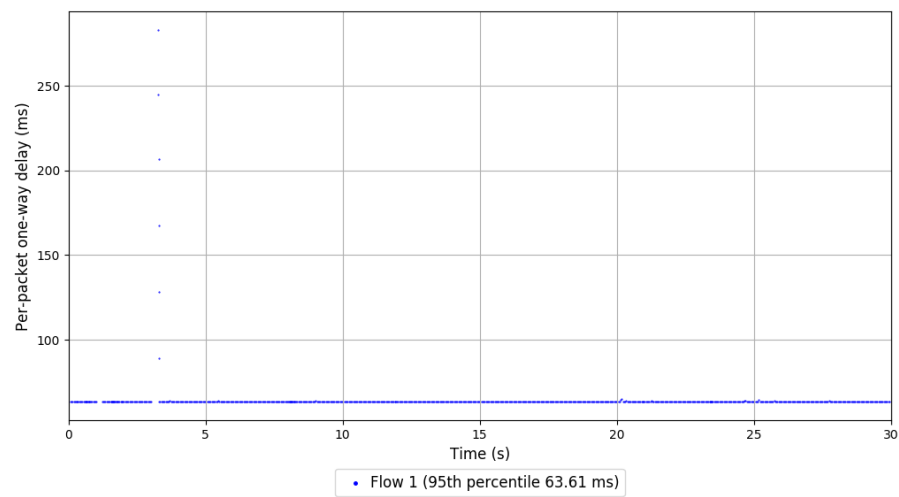
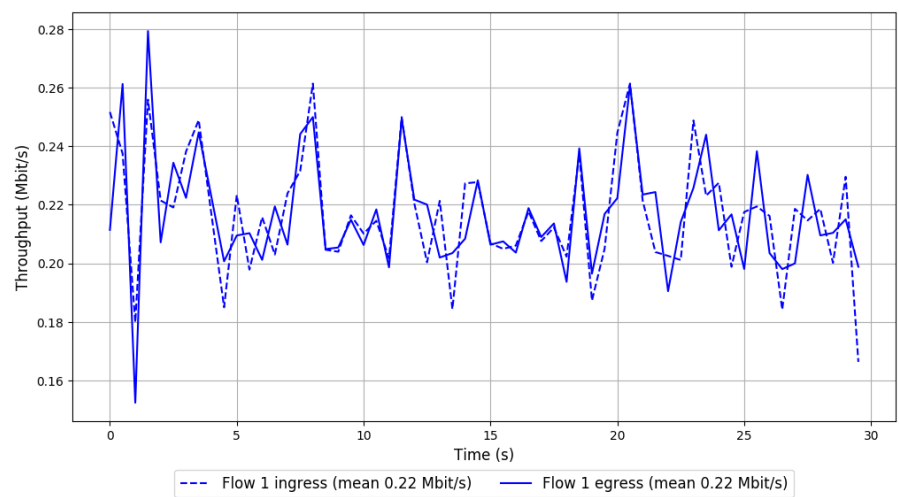
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.610 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

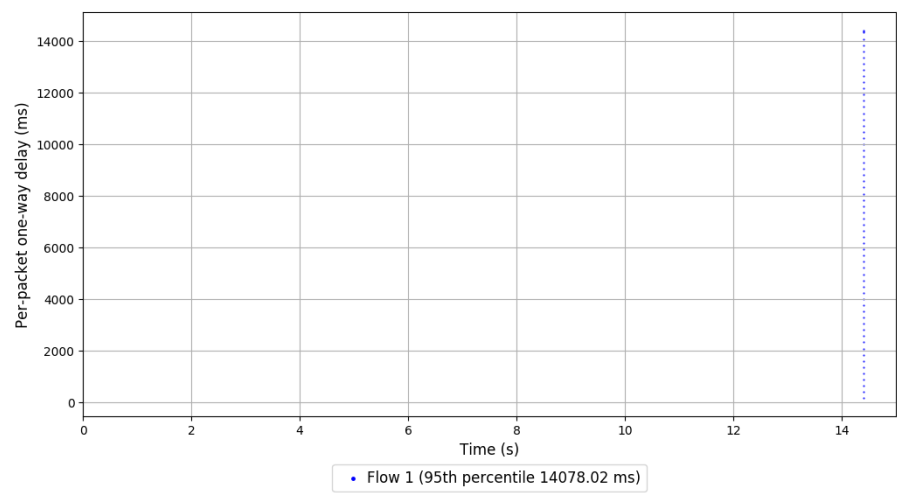
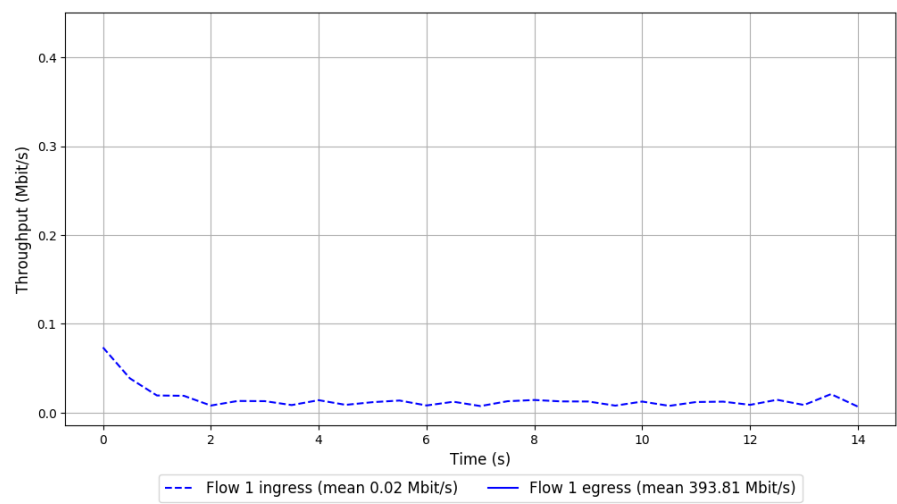


Run 4: Statistics of SReAM

Start at: 2017-08-17 06:49:33

End at: 2017-08-17 06:50:03

Run 4: Report of SReAM — Data Link

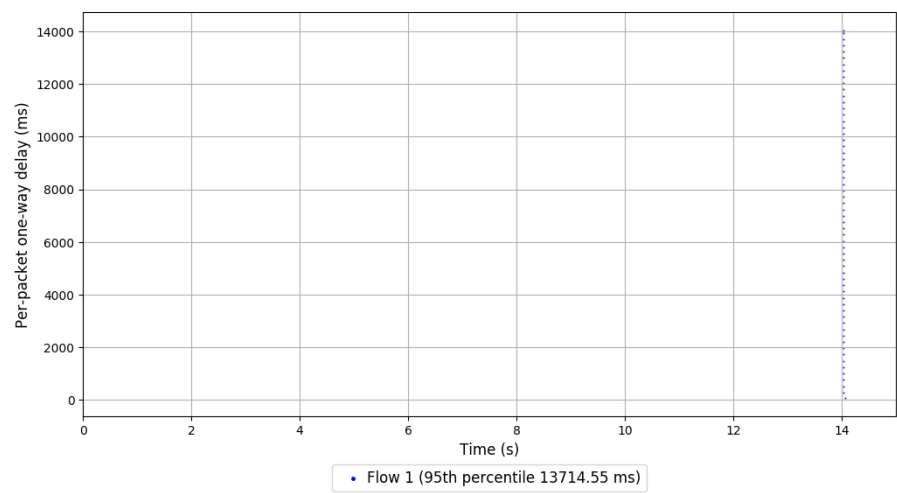
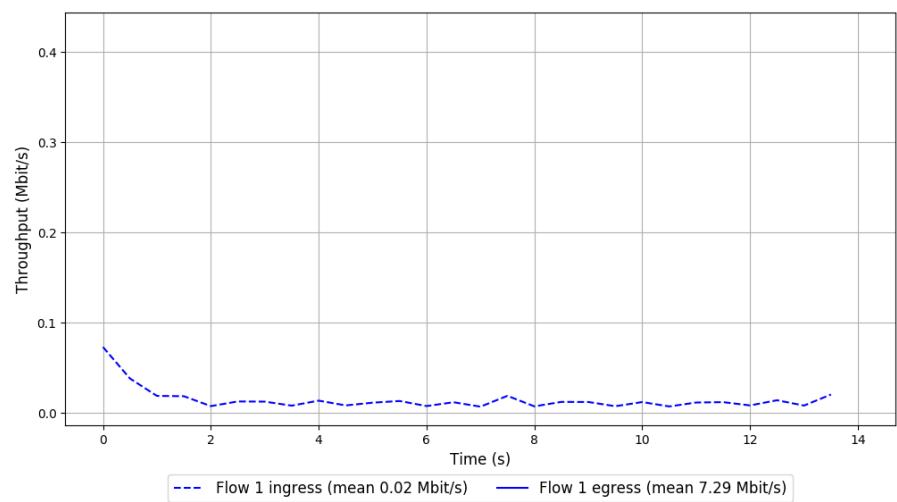


Run 5: Statistics of SReAM

Start at: 2017-08-17 07:00:06

End at: 2017-08-17 07:00:36

Run 5: Report of SReAM — Data Link

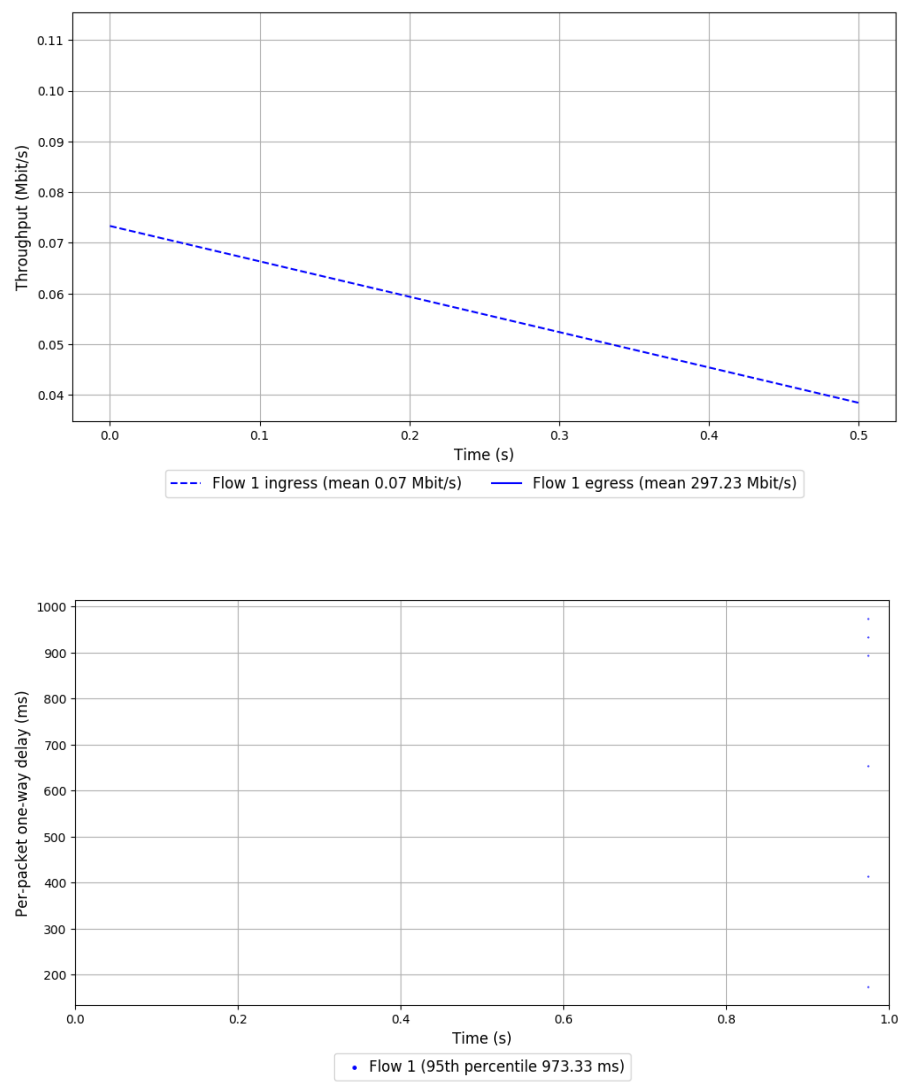


Run 6: Statistics of SReAM

Start at: 2017-08-17 07:10:28

End at: 2017-08-17 07:10:58

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-08-17 07:20:40

End at: 2017-08-17 07:21:10

Below is generated by plot.py at 2017-08-17 09:10:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.605 ms

Loss rate: 0.00%

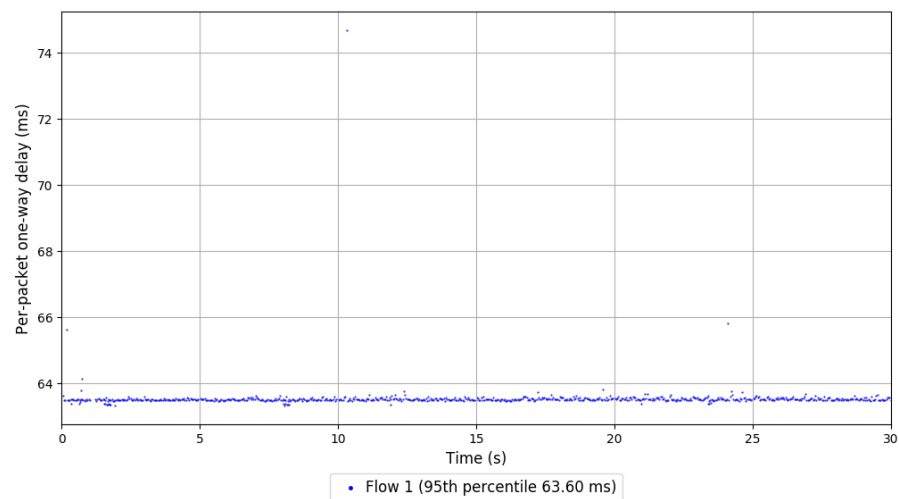
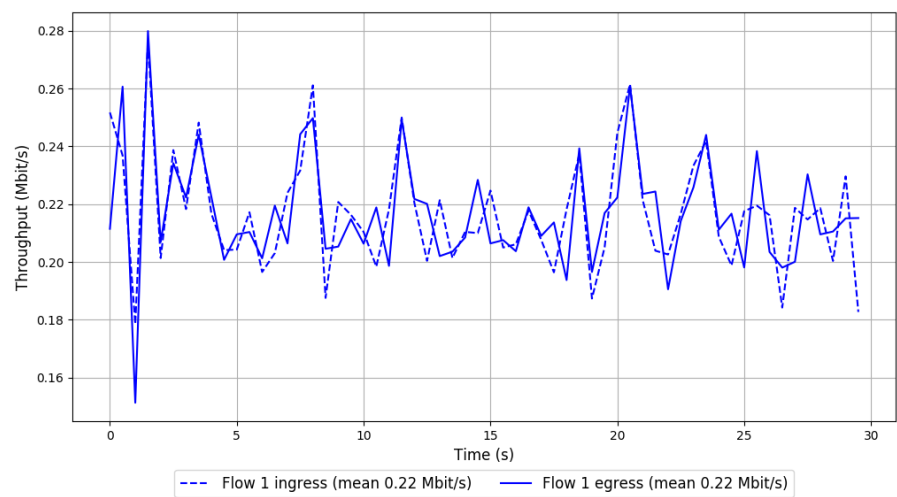
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.605 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-08-17 07:31:00

End at: 2017-08-17 07:31:30

Below is generated by plot.py at 2017-08-17 09:11:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.646 ms

Loss rate: 0.00%

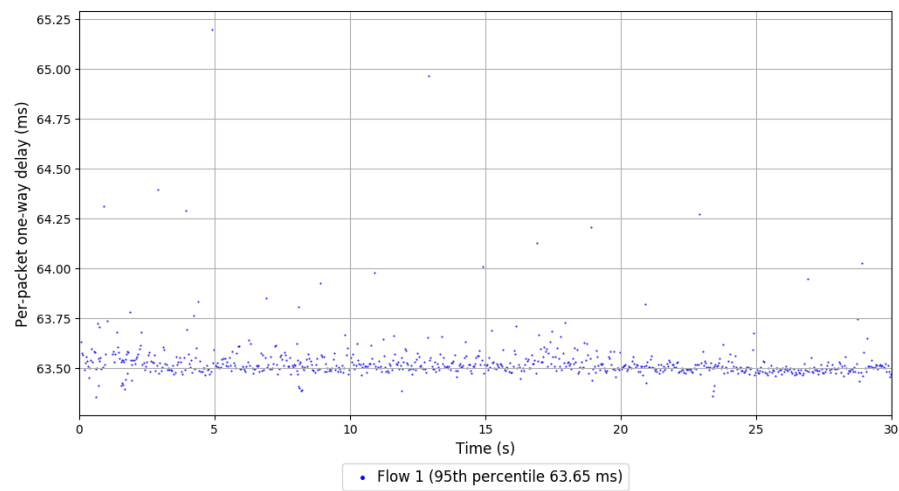
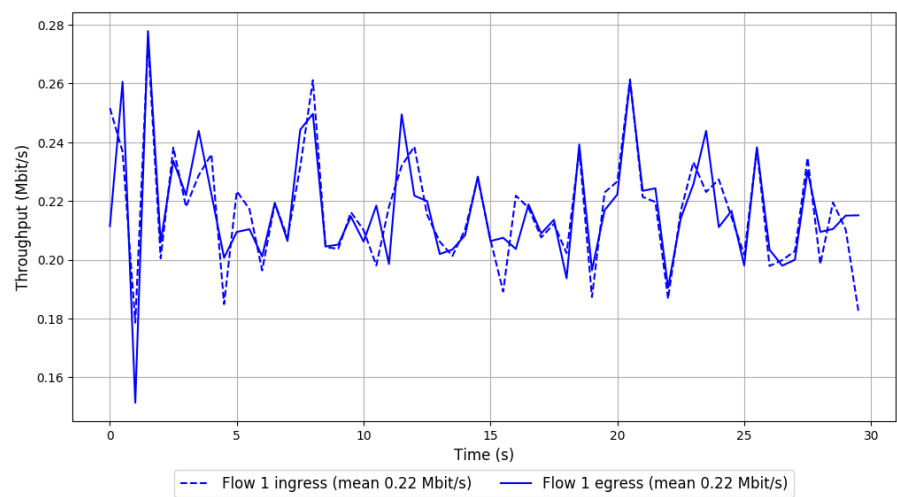
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.646 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

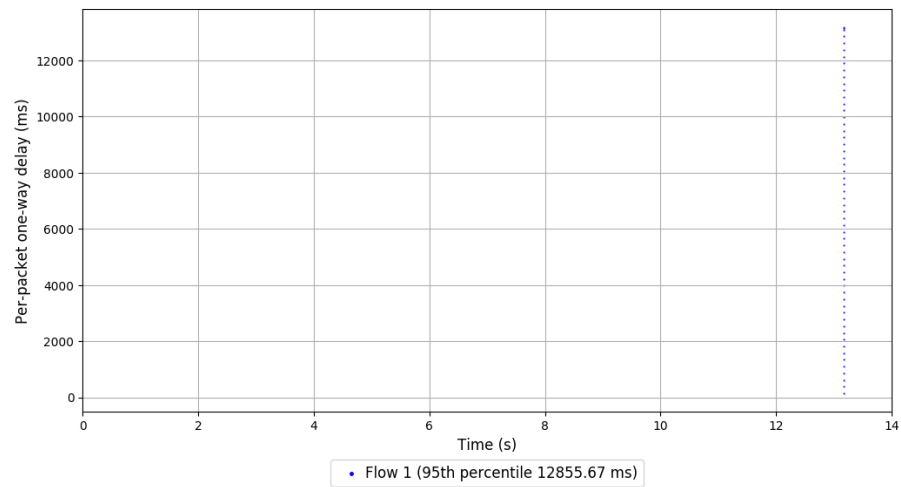
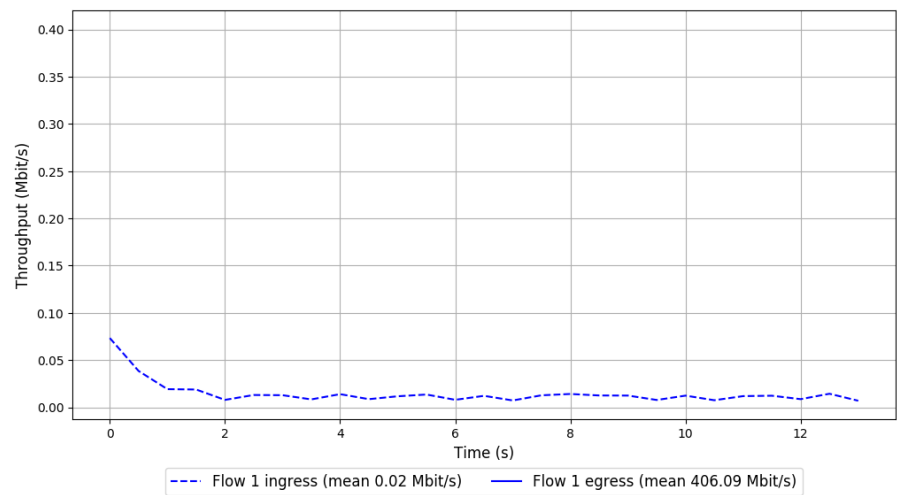


Run 9: Statistics of SReAM

Start at: 2017-08-17 07:41:15

End at: 2017-08-17 07:41:45

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-08-17 07:51:17

End at: 2017-08-17 07:51:47

Below is generated by plot.py at 2017-08-17 09:11:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.641 ms

Loss rate: 0.00%

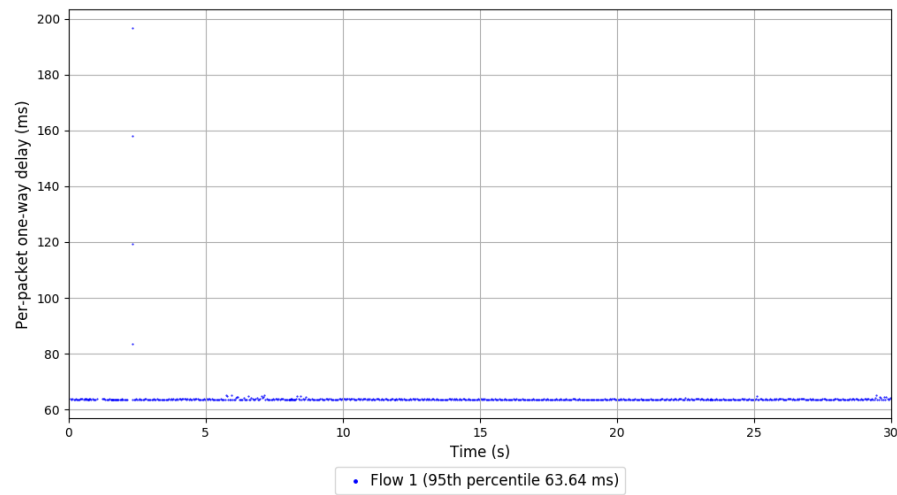
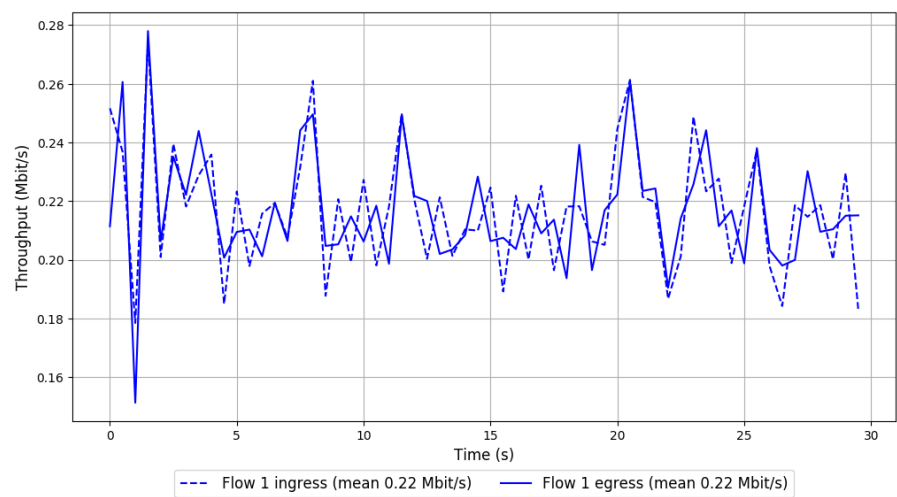
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.641 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2017-08-17 06:21:43

End at: 2017-08-17 06:22:13

Below is generated by plot.py at 2017-08-17 09:11:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.77 Mbit/s

95th percentile per-packet one-way delay: 63.980 ms

Loss rate: 4.15%

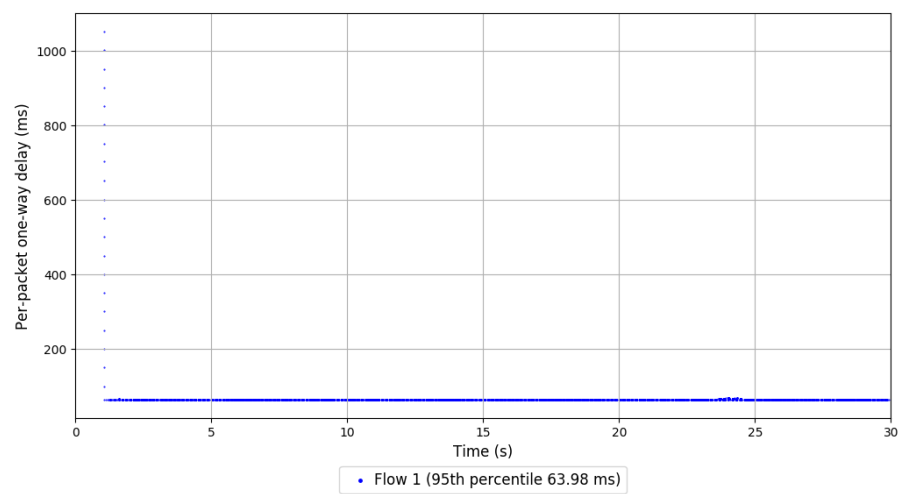
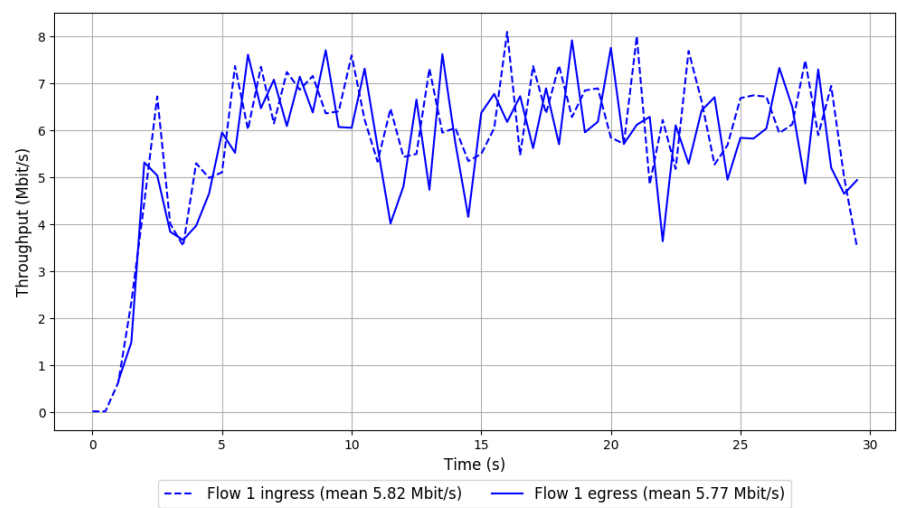
-- Flow 1:

Average throughput: 5.77 Mbit/s

95th percentile per-packet one-way delay: 63.980 ms

Loss rate: 4.15%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-08-17 06:32:15

End at: 2017-08-17 06:32:45

Below is generated by plot.py at 2017-08-17 09:11:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.38 Mbit/s

95th percentile per-packet one-way delay: 65.763 ms

Loss rate: 15.05%

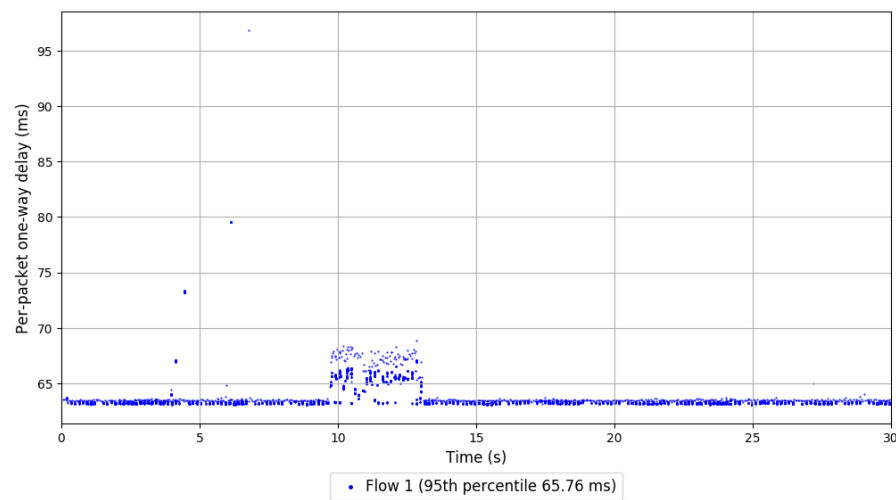
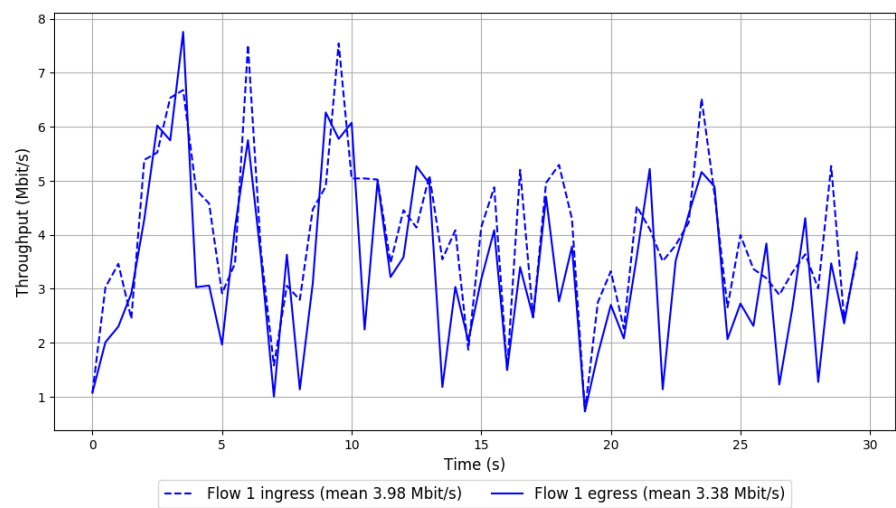
-- Flow 1:

Average throughput: 3.38 Mbit/s

95th percentile per-packet one-way delay: 65.763 ms

Loss rate: 15.05%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-08-17 06:42:50

End at: 2017-08-17 06:43:20

Below is generated by plot.py at 2017-08-17 09:11:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.05 Mbit/s

95th percentile per-packet one-way delay: 63.865 ms

Loss rate: 3.66%

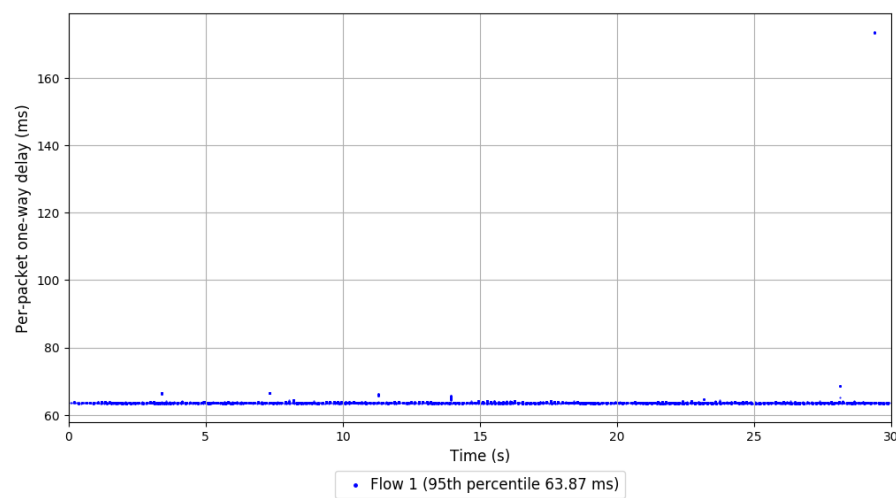
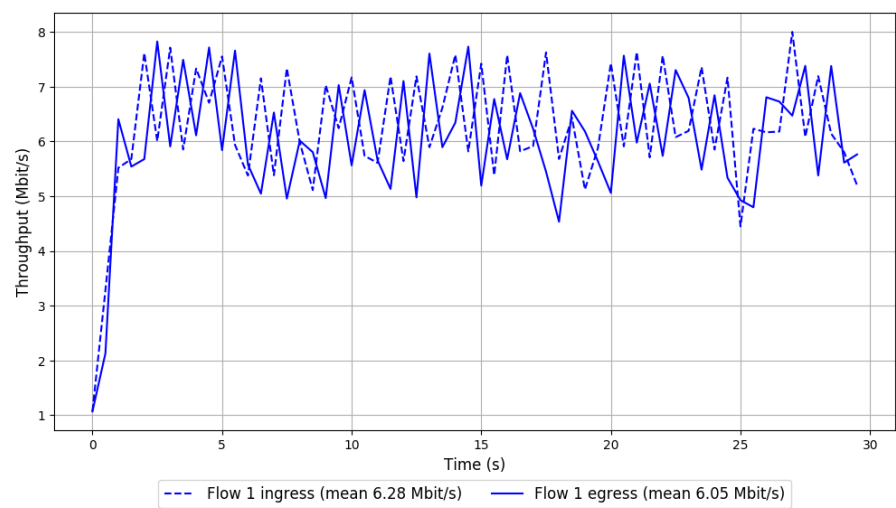
-- Flow 1:

Average throughput: 6.05 Mbit/s

95th percentile per-packet one-way delay: 63.865 ms

Loss rate: 3.66%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-08-17 06:53:16

End at: 2017-08-17 06:53:46

Below is generated by plot.py at 2017-08-17 09:11:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.76 Mbit/s

95th percentile per-packet one-way delay: 63.814 ms

Loss rate: 4.37%

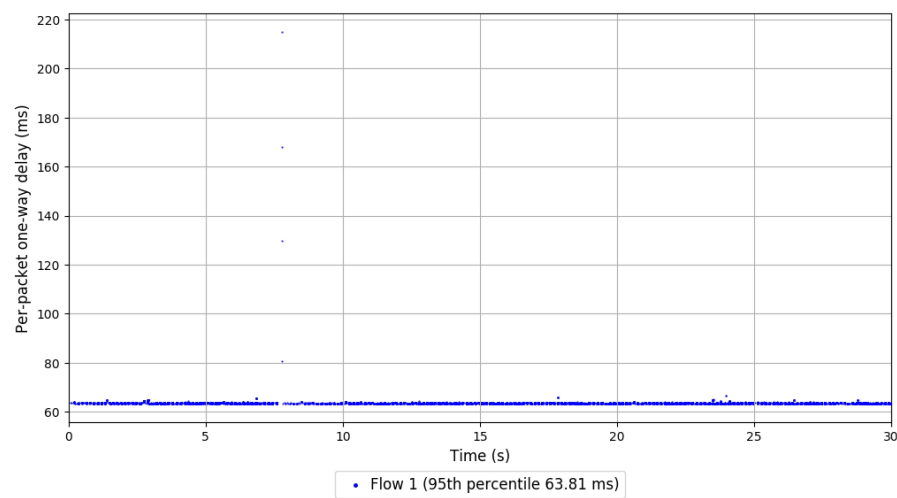
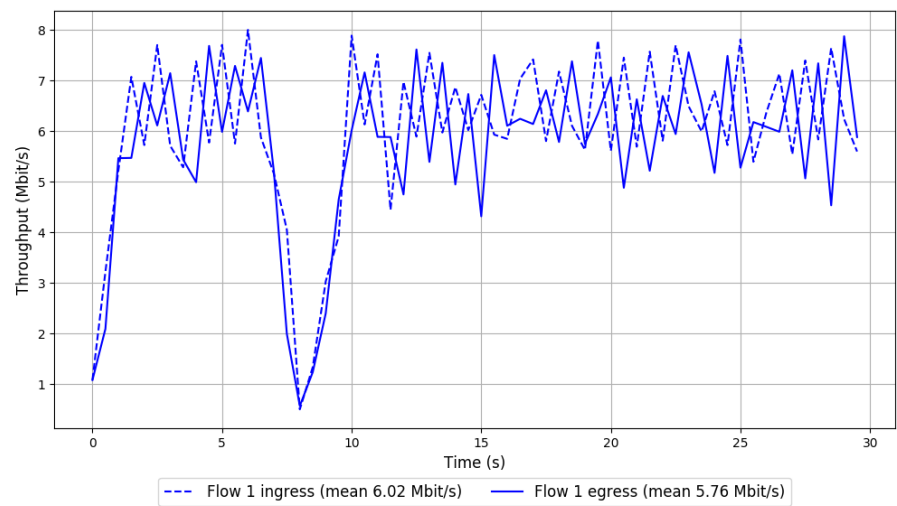
-- Flow 1:

Average throughput: 5.76 Mbit/s

95th percentile per-packet one-way delay: 63.814 ms

Loss rate: 4.37%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-08-17 07:03:27

End at: 2017-08-17 07:03:57

Below is generated by plot.py at 2017-08-17 09:11:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.89 Mbit/s

95th percentile per-packet one-way delay: 63.798 ms

Loss rate: 2.72%

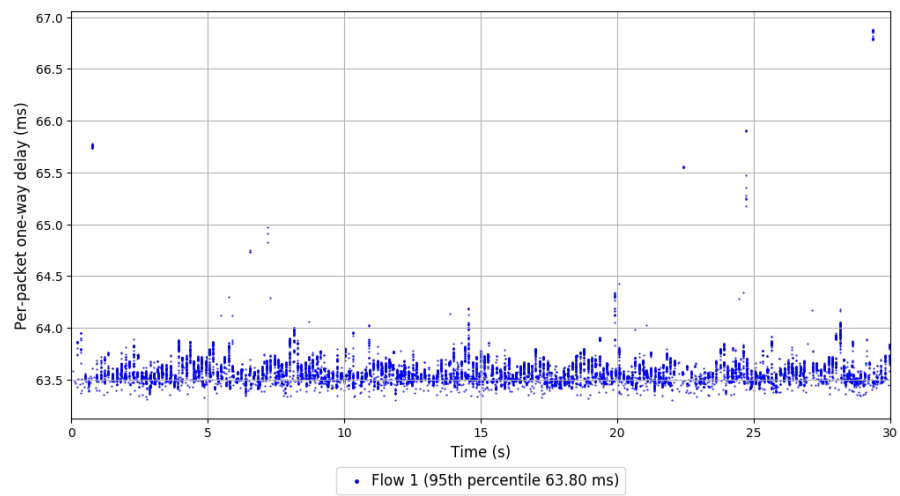
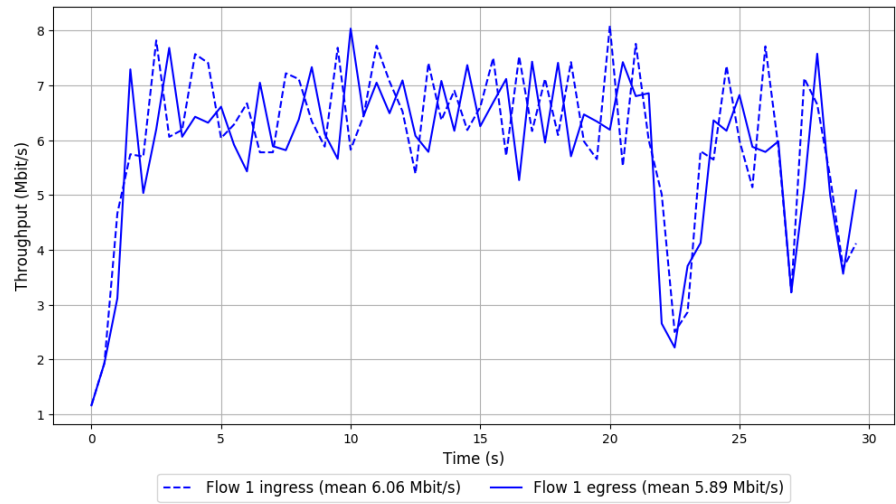
-- Flow 1:

Average throughput: 5.89 Mbit/s

95th percentile per-packet one-way delay: 63.798 ms

Loss rate: 2.72%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-08-17 07:13:52

End at: 2017-08-17 07:14:22

Below is generated by plot.py at 2017-08-17 09:11:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.47 Mbit/s

95th percentile per-packet one-way delay: 66.582 ms

Loss rate: 11.98%

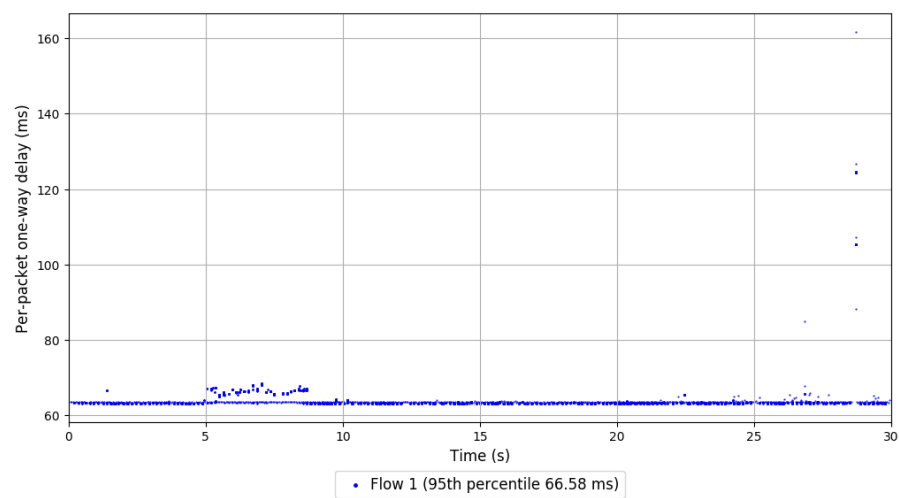
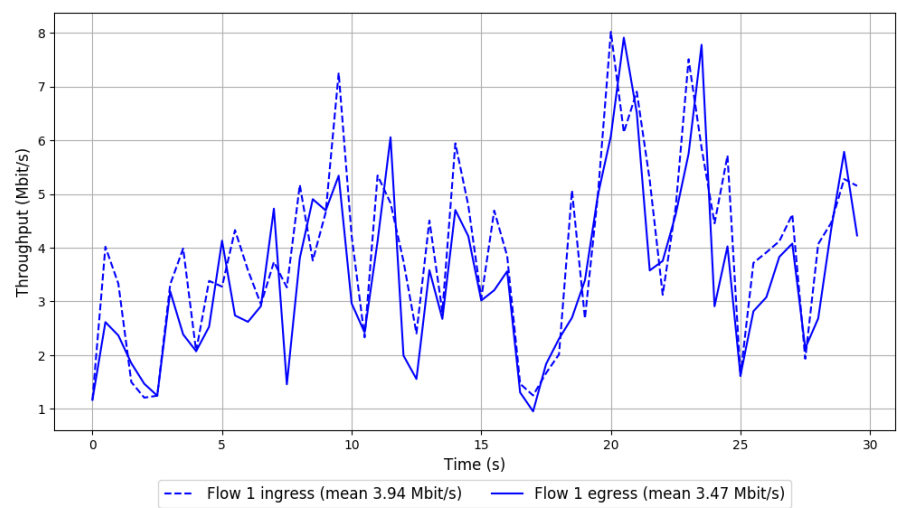
-- Flow 1:

Average throughput: 3.47 Mbit/s

95th percentile per-packet one-way delay: 66.582 ms

Loss rate: 11.98%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-08-17 07:24:16

End at: 2017-08-17 07:24:46

Below is generated by plot.py at 2017-08-17 09:11:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.22 Mbit/s

95th percentile per-packet one-way delay: 63.582 ms

Loss rate: 16.59%

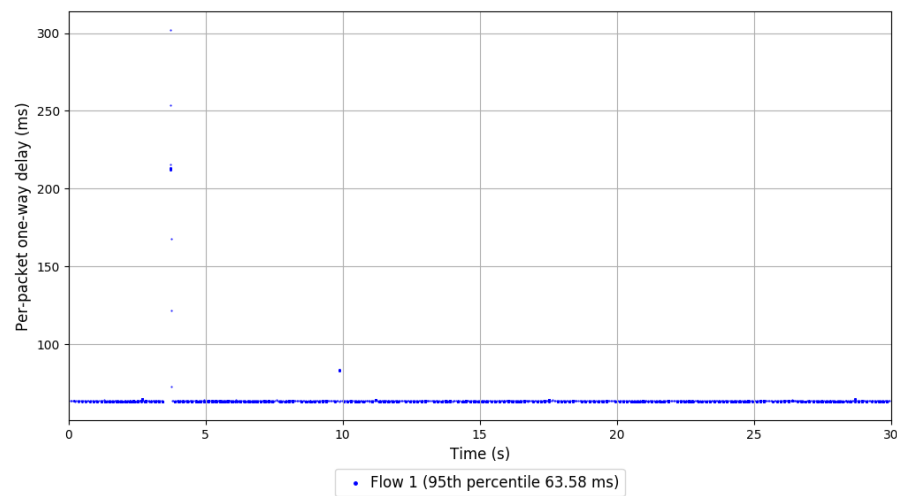
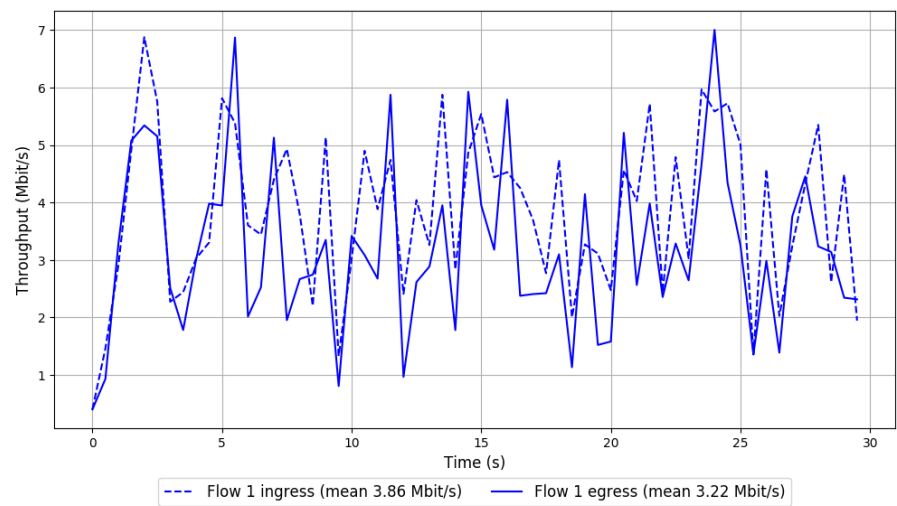
-- Flow 1:

Average throughput: 3.22 Mbit/s

95th percentile per-packet one-way delay: 63.582 ms

Loss rate: 16.59%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-08-17 07:34:31

End at: 2017-08-17 07:35:01

Below is generated by plot.py at 2017-08-17 09:11:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.21 Mbit/s

95th percentile per-packet one-way delay: 63.813 ms

Loss rate: 2.05%

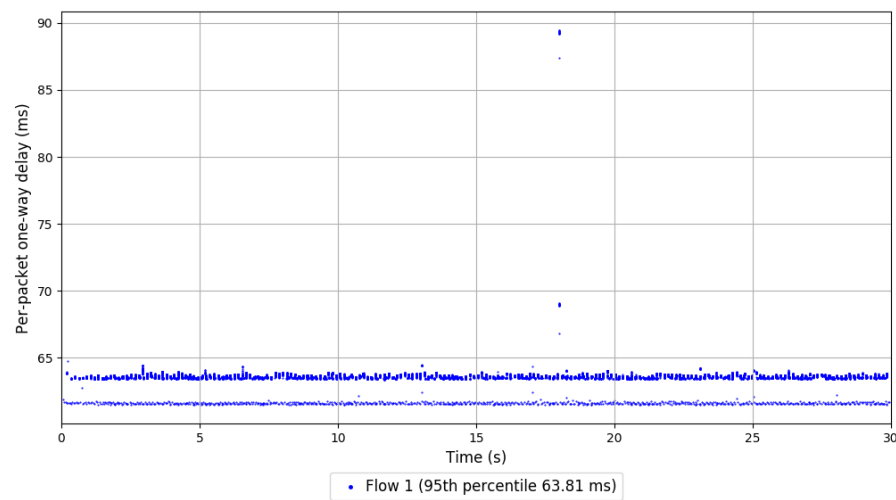
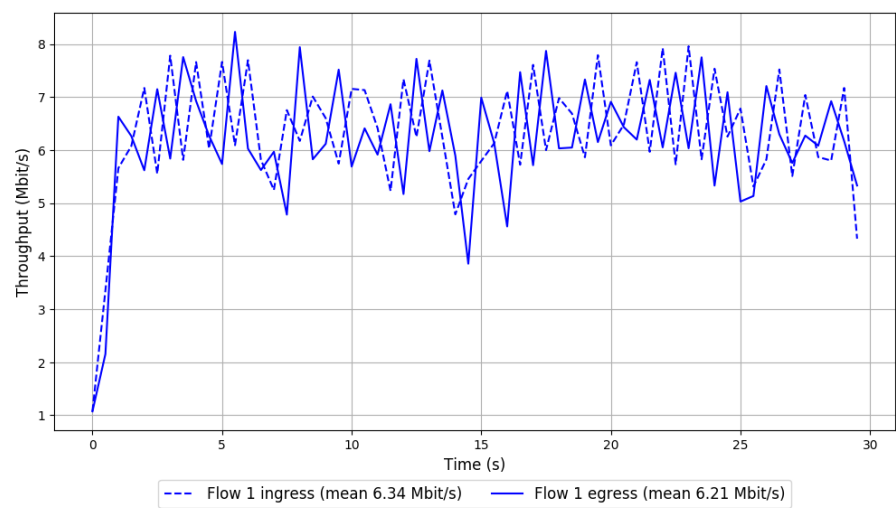
-- Flow 1:

Average throughput: 6.21 Mbit/s

95th percentile per-packet one-way delay: 63.813 ms

Loss rate: 2.05%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-08-17 07:44:36

End at: 2017-08-17 07:45:06

Below is generated by plot.py at 2017-08-17 09:11:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.38 Mbit/s

95th percentile per-packet one-way delay: 63.314 ms

Loss rate: 15.31%

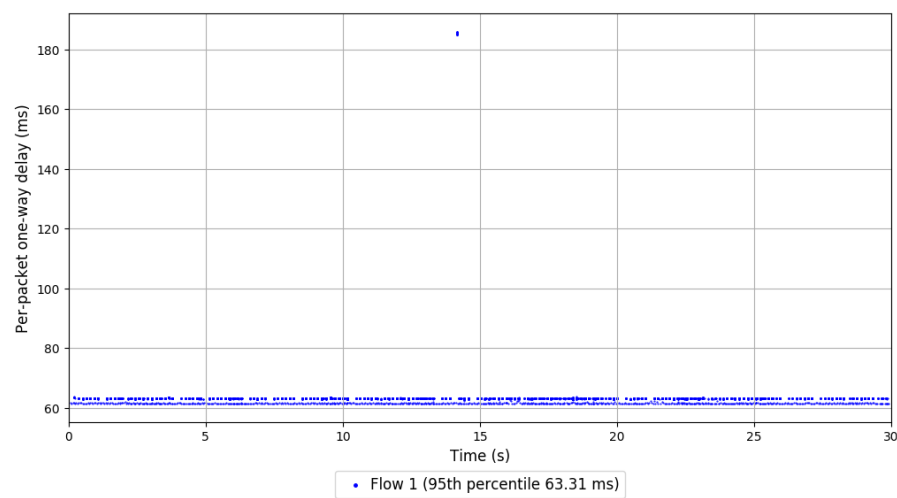
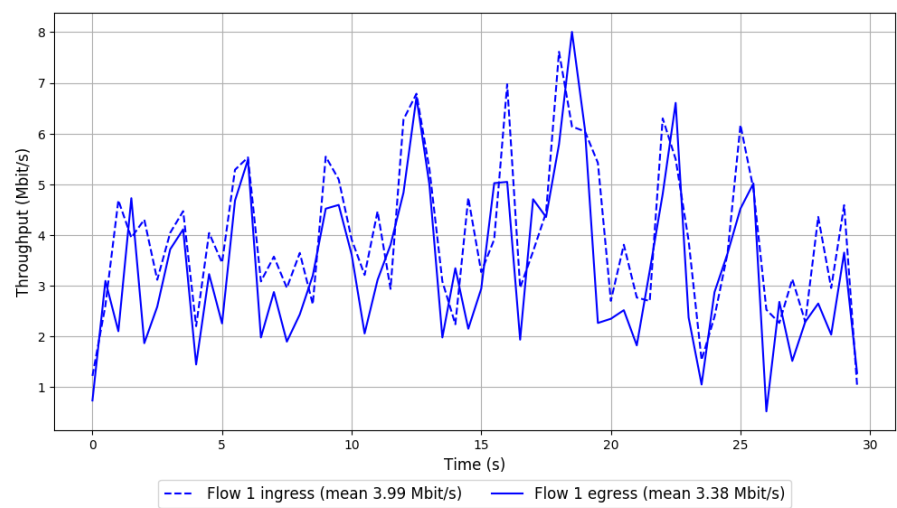
-- Flow 1:

Average throughput: 3.38 Mbit/s

95th percentile per-packet one-way delay: 63.314 ms

Loss rate: 15.31%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-08-17 07:54:28

End at: 2017-08-17 07:54:58

Below is generated by plot.py at 2017-08-17 09:11:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.28 Mbit/s

95th percentile per-packet one-way delay: 63.683 ms

Loss rate: 13.10%

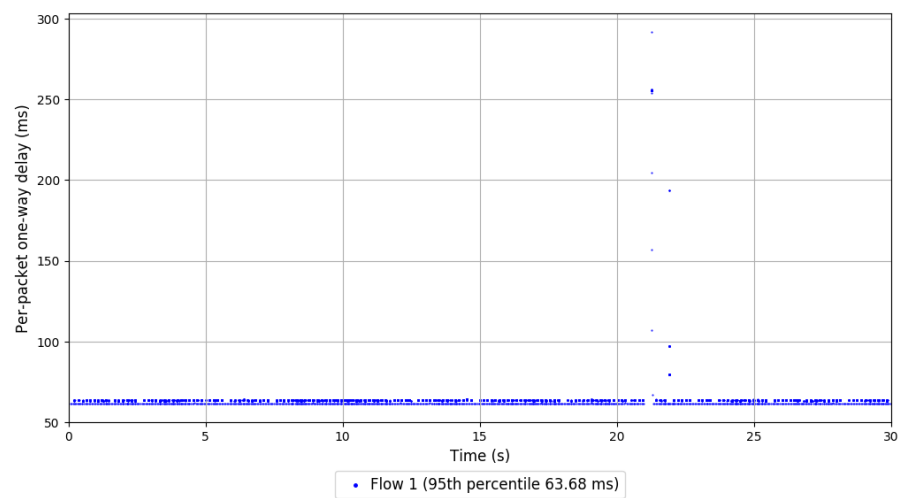
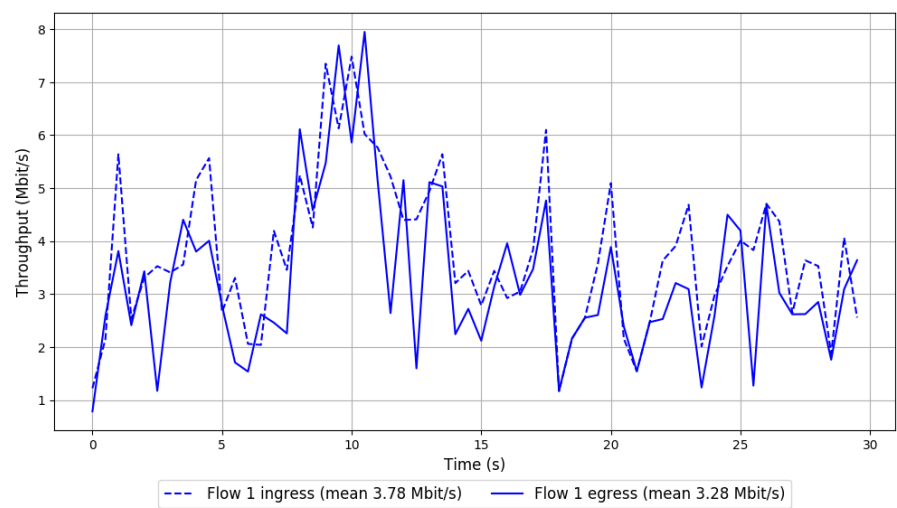
-- Flow 1:

Average throughput: 3.28 Mbit/s

95th percentile per-packet one-way delay: 63.683 ms

Loss rate: 13.10%

Run 10: Report of Sprout — Data Link

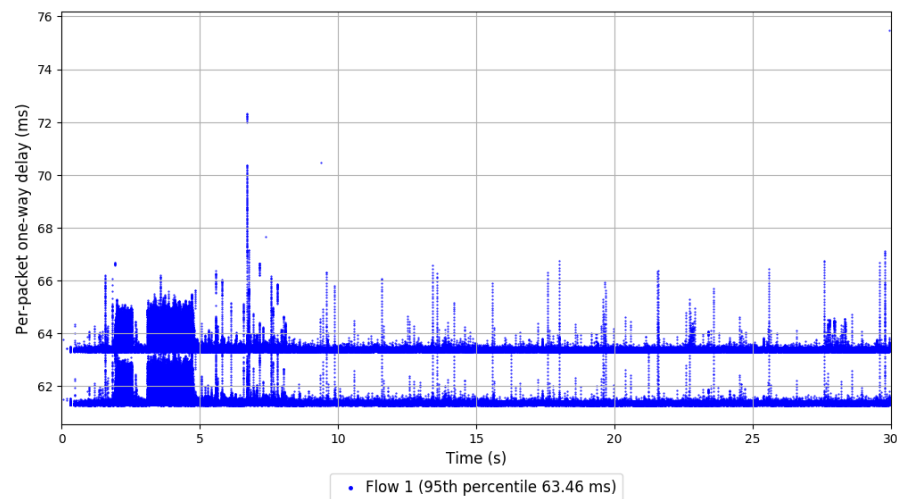
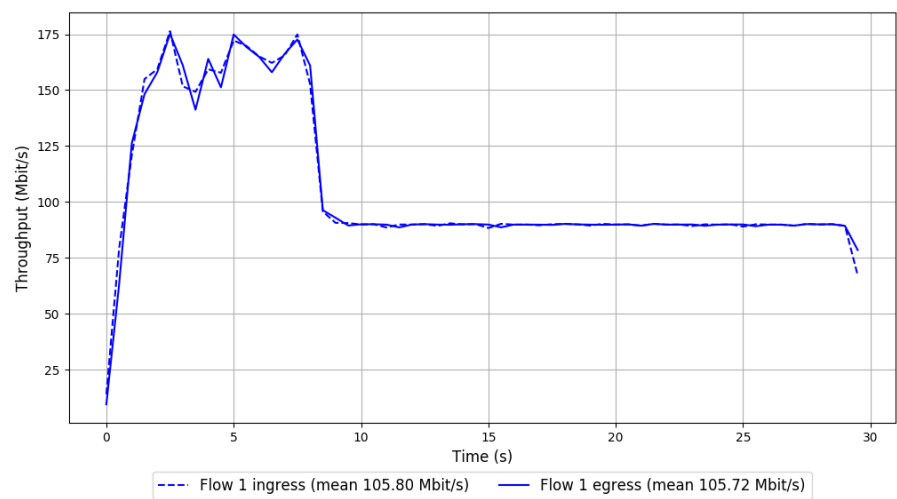


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-08-17 06:15:57
End at: 2017-08-17 06:16:27

# Below is generated by plot.py at 2017-08-17 09:12:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 105.72 Mbit/s
95th percentile per-packet one-way delay: 63.459 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 105.72 Mbit/s
95th percentile per-packet one-way delay: 63.459 ms
Loss rate: 0.11%
```

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

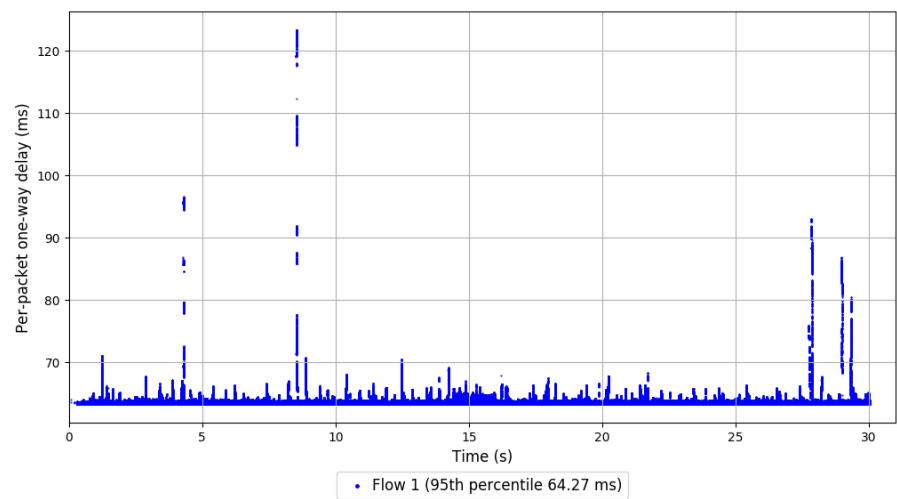
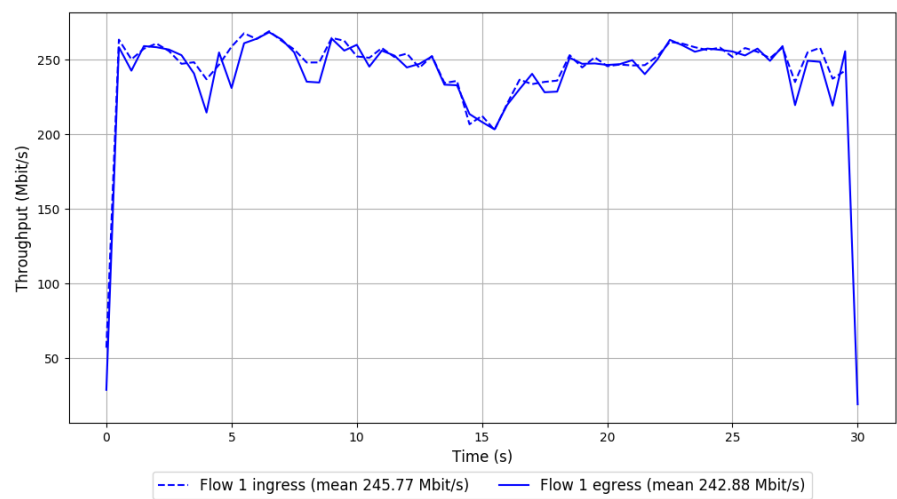


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-08-17 06:26:15
End at: 2017-08-17 06:26:45

# Below is generated by plot.py at 2017-08-17 09:12:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 242.88 Mbit/s
95th percentile per-packet one-way delay: 64.274 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 242.88 Mbit/s
95th percentile per-packet one-way delay: 64.274 ms
Loss rate: 1.18%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-08-17 06:36:51

End at: 2017-08-17 06:37:21

Below is generated by plot.py at 2017-08-17 09:12:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.55 Mbit/s

95th percentile per-packet one-way delay: 64.542 ms

Loss rate: 3.82%

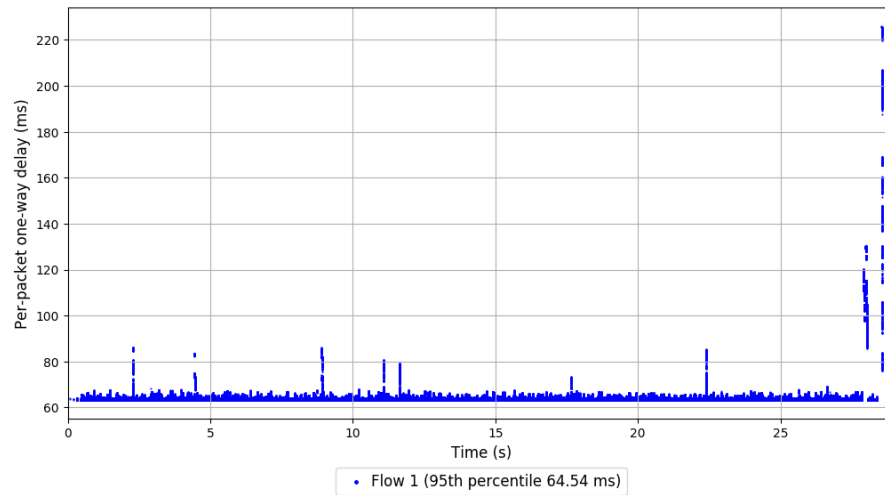
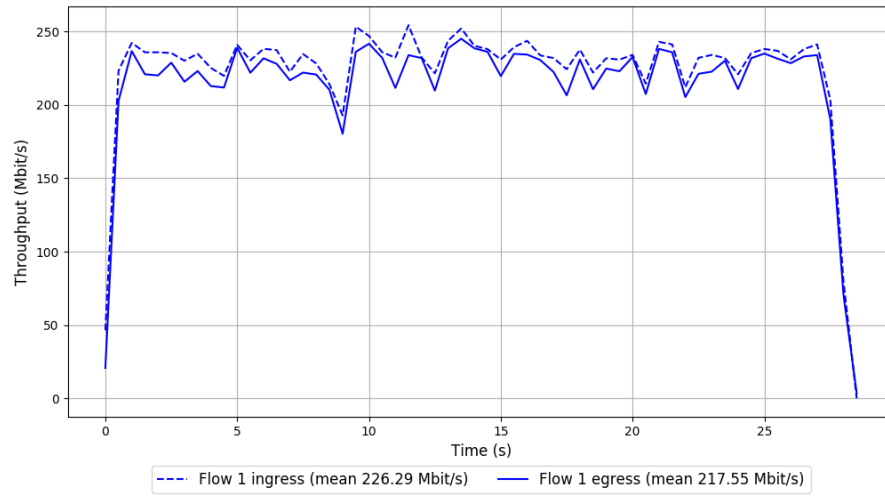
-- Flow 1:

Average throughput: 217.55 Mbit/s

95th percentile per-packet one-way delay: 64.542 ms

Loss rate: 3.82%

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

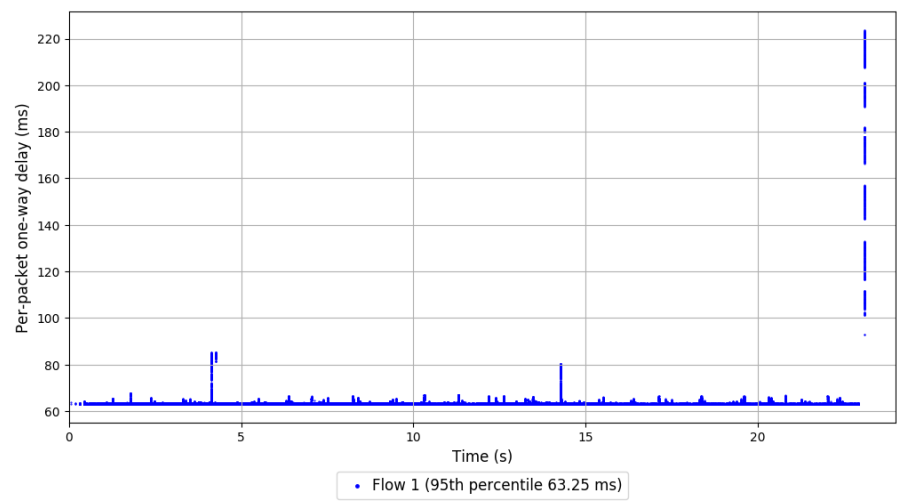
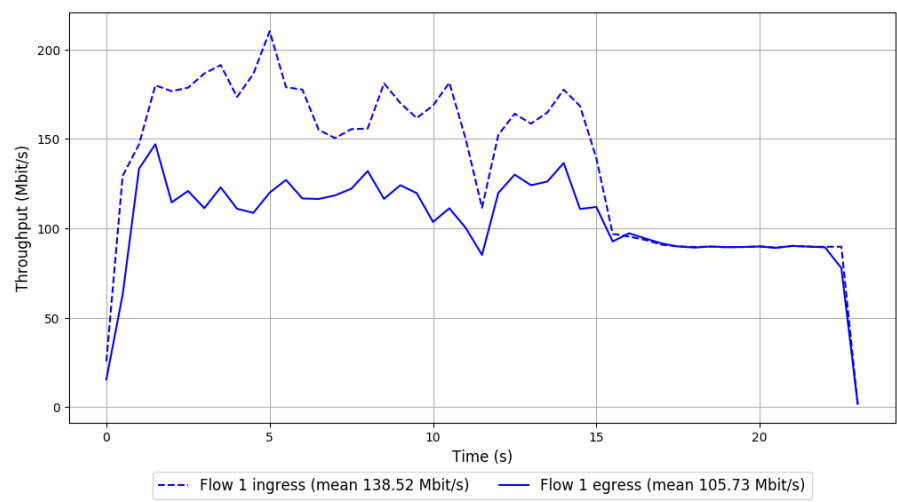


Run 4: Statistics of TaoVA-100x

Start at: 2017-08-17 06:47:26

End at: 2017-08-17 06:47:56

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

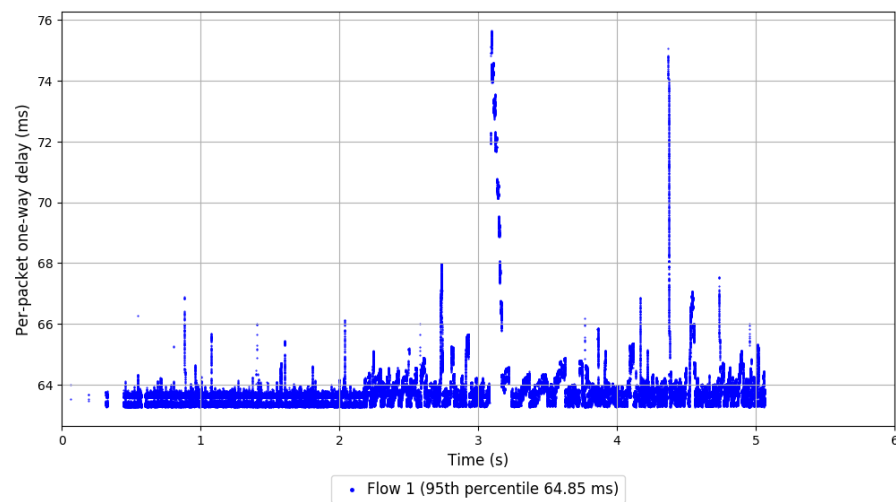
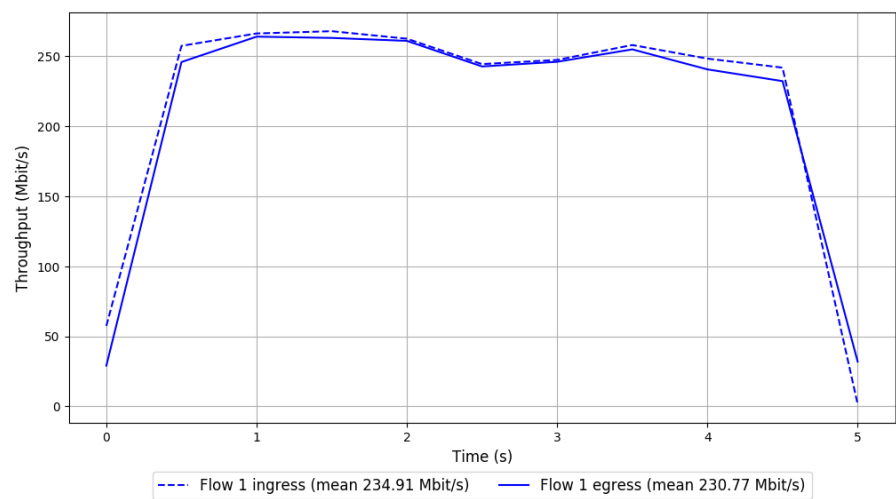


Run 5: Statistics of TaoVA-100x

Start at: 2017-08-17 06:57:56

End at: 2017-08-17 06:58:26

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

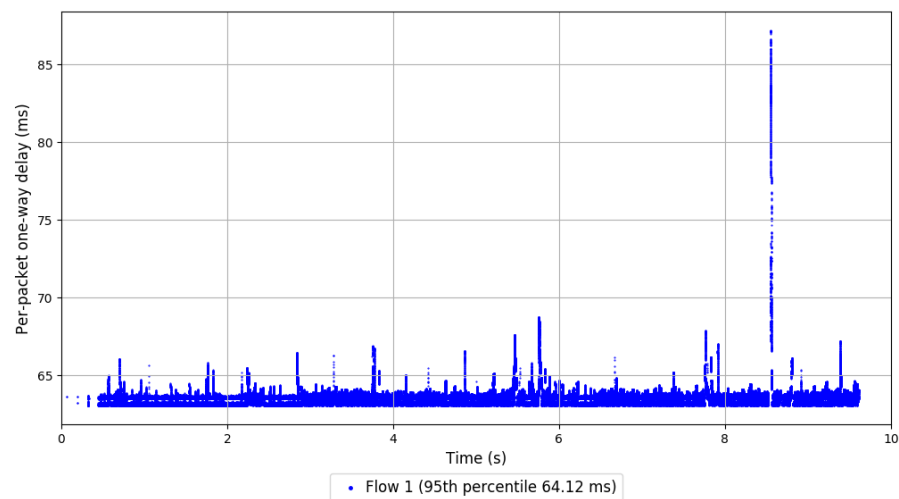
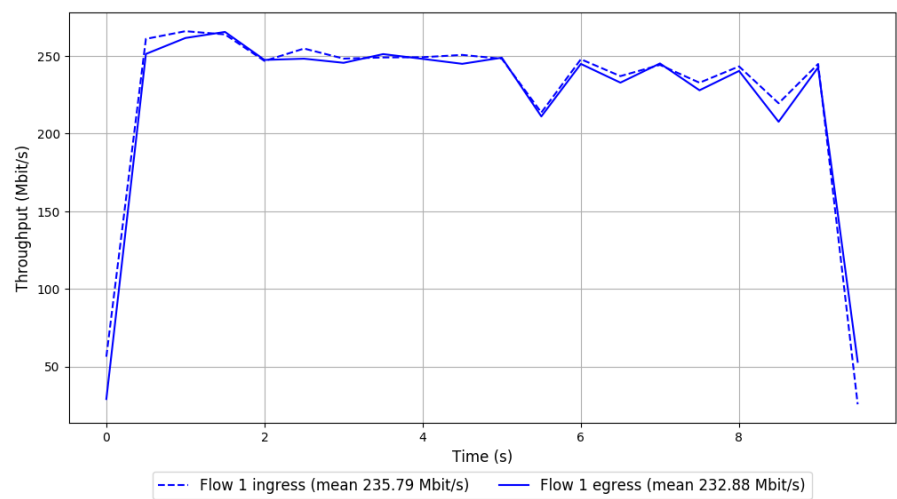


Run 6: Statistics of TaoVA-100x

Start at: 2017-08-17 07:08:09

End at: 2017-08-17 07:08:39

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

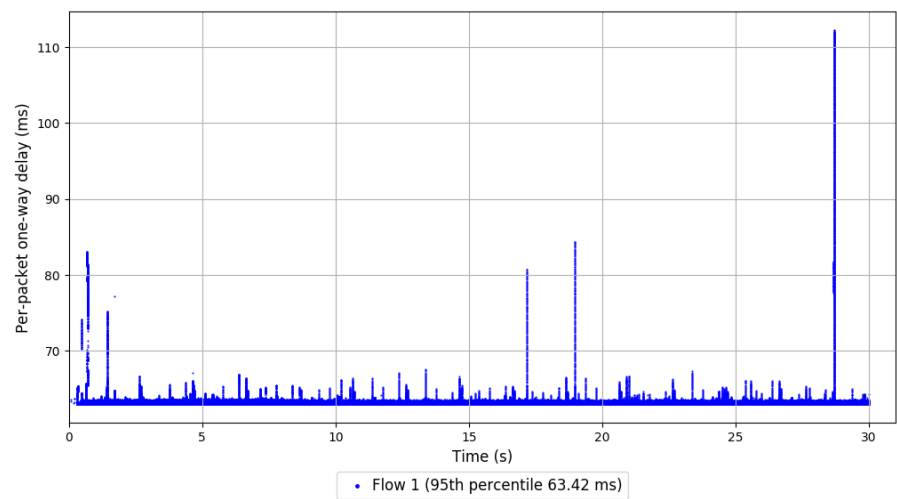
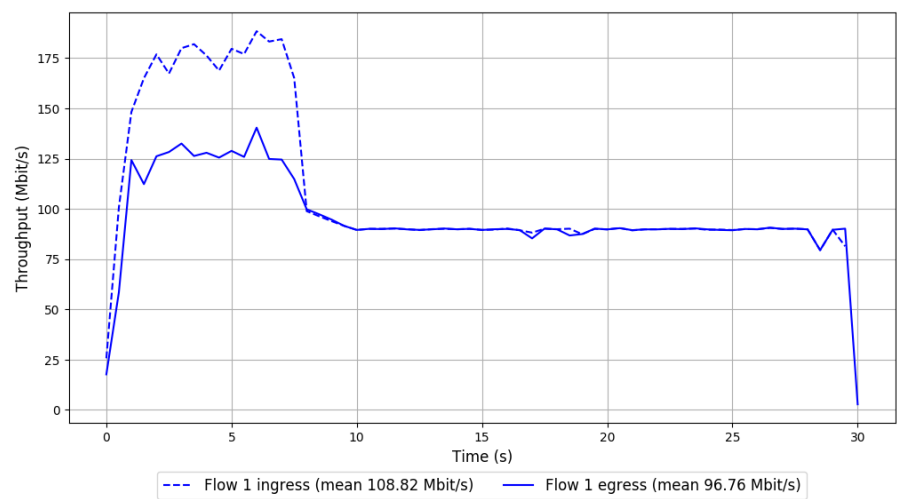


```
Run 7: Statistics of TaoVA-100x

Start at: 2017-08-17 07:18:22
End at: 2017-08-17 07:18:52

# Below is generated by plot.py at 2017-08-17 09:13:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.76 Mbit/s
95th percentile per-packet one-way delay: 63.421 ms
Loss rate: 11.08%
-- Flow 1:
Average throughput: 96.76 Mbit/s
95th percentile per-packet one-way delay: 63.421 ms
Loss rate: 11.08%
```


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

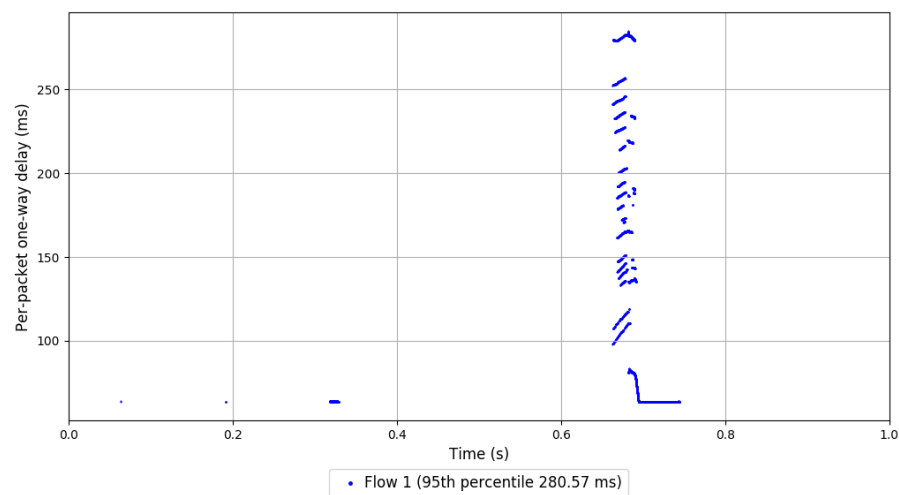
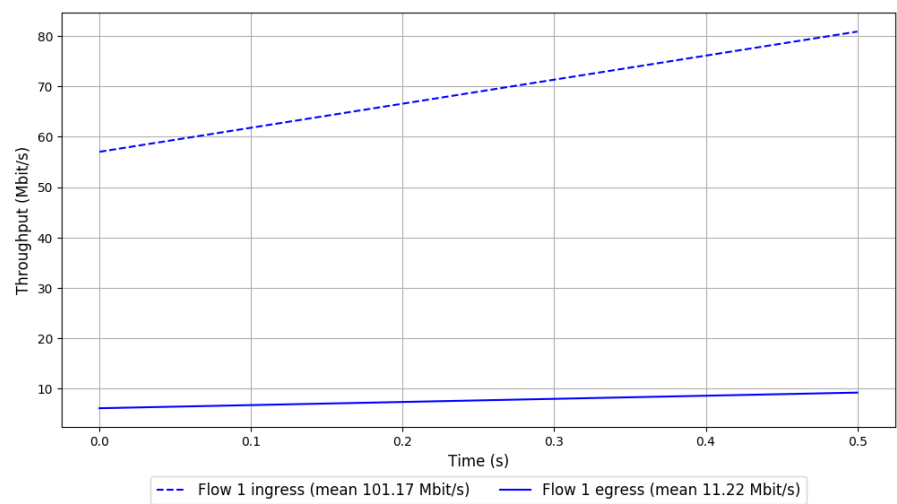


Run 8: Statistics of TaoVA-100x

Start at: 2017-08-17 07:28:49

End at: 2017-08-17 07:29:19

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

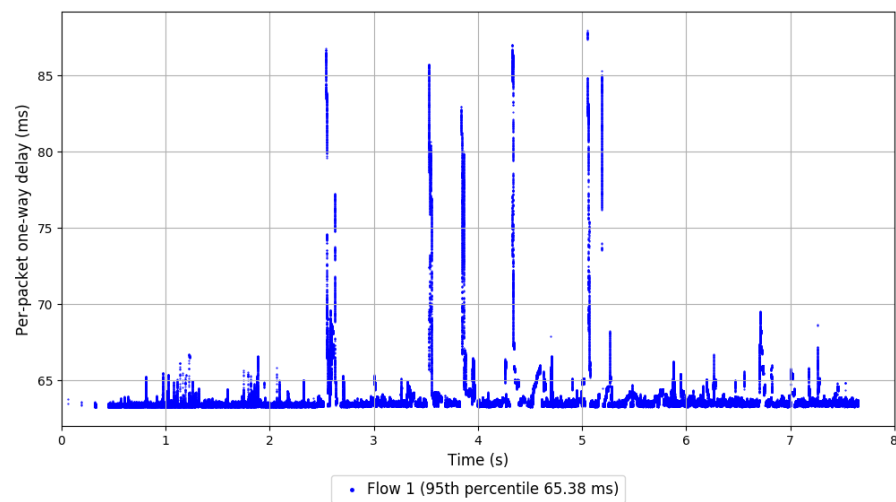
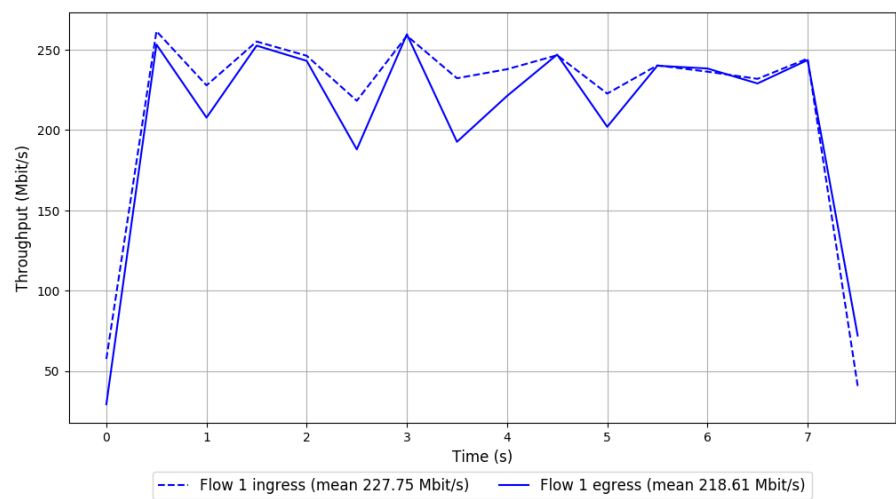


Run 9: Statistics of TaoVA-100x

Start at: 2017-08-17 07:39:09

End at: 2017-08-17 07:39:39

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

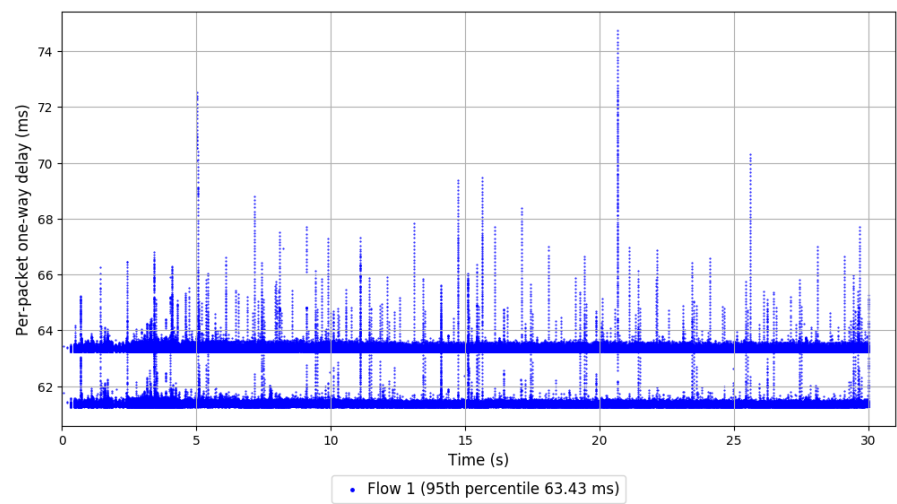
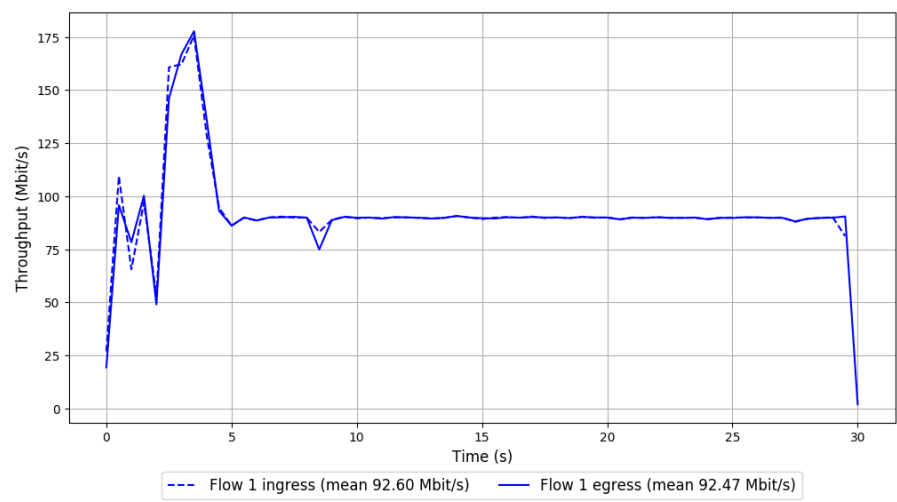


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-08-17 07:49:11
End at: 2017-08-17 07:49:41

# Below is generated by plot.py at 2017-08-17 09:14:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.47 Mbit/s
95th percentile per-packet one-way delay: 63.428 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 92.47 Mbit/s
95th percentile per-packet one-way delay: 63.428 ms
Loss rate: 0.15%
```

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

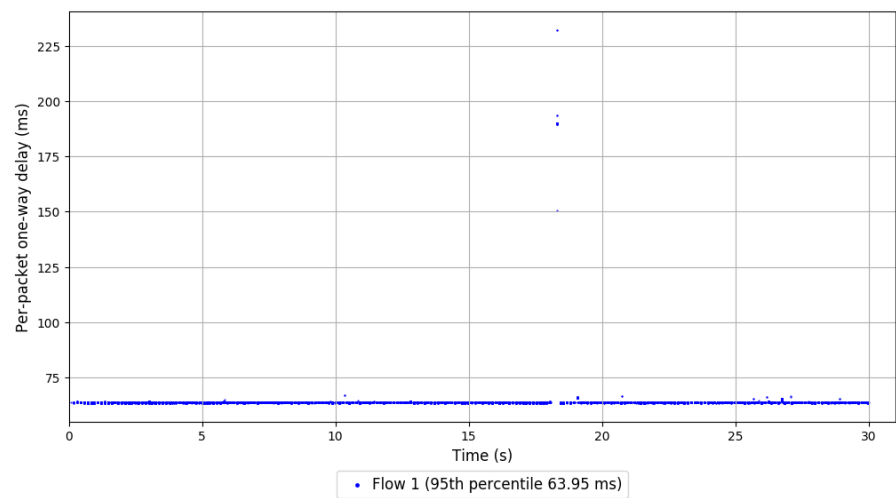
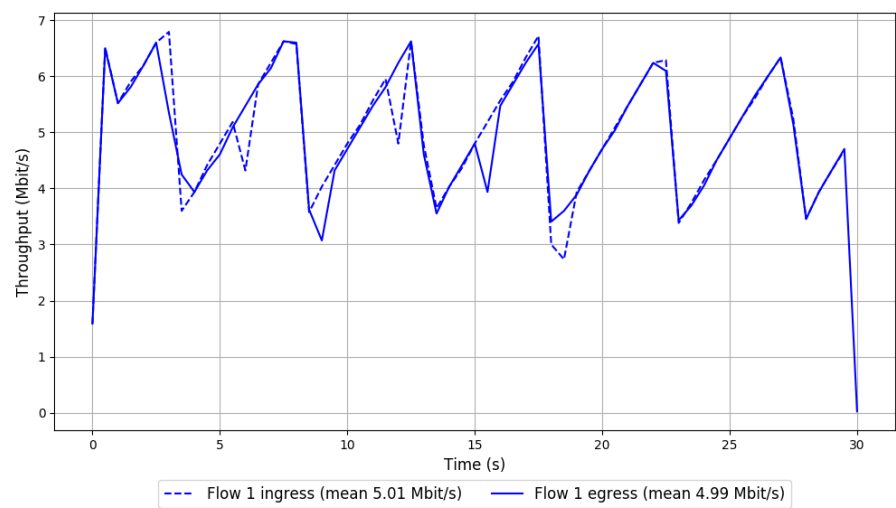


```
Run 1: Statistics of TCP Vegas

Start at: 2017-08-17 06:14:02
End at: 2017-08-17 06:14:32

# Below is generated by plot.py at 2017-08-17 09:14:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.99 Mbit/s
95th percentile per-packet one-way delay: 63.949 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 4.99 Mbit/s
95th percentile per-packet one-way delay: 63.949 ms
Loss rate: 0.38%
```


Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-08-17 06:24:18

End at: 2017-08-17 06:24:48

Below is generated by plot.py at 2017-08-17 09:14:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.84 Mbit/s

95th percentile per-packet one-way delay: 63.384 ms

Loss rate: 3.29%

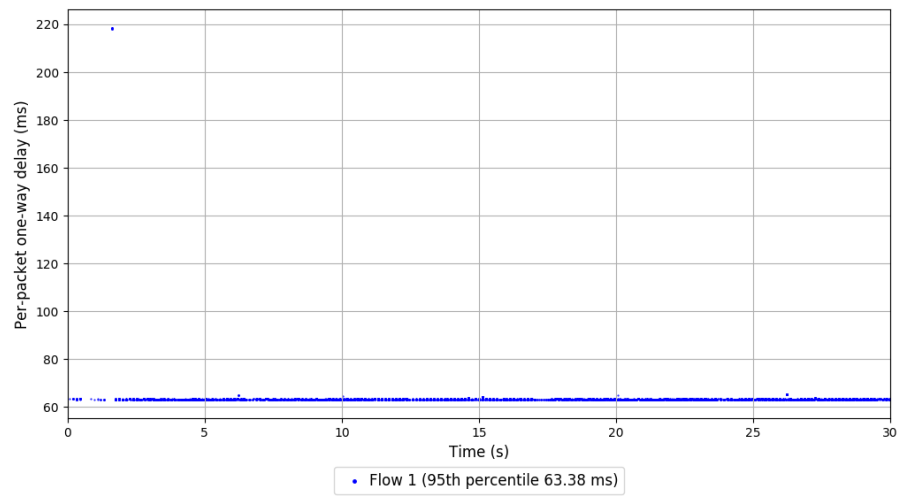
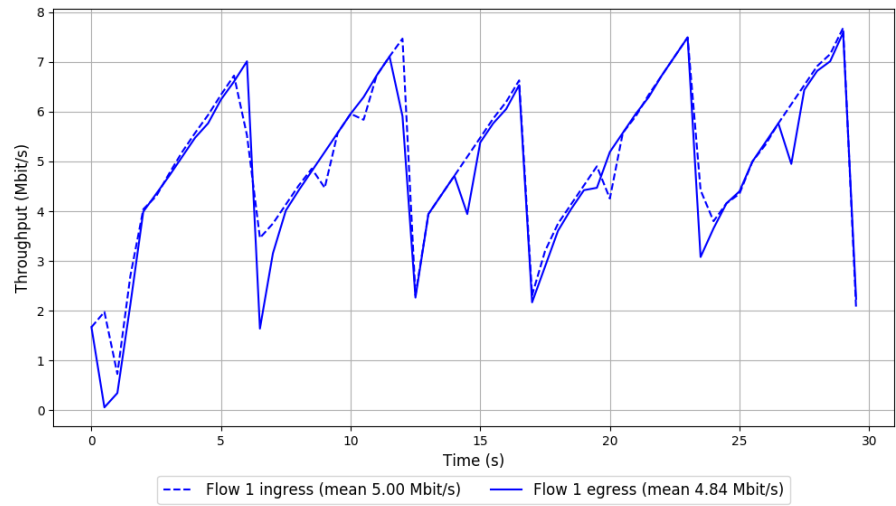
-- Flow 1:

Average throughput: 4.84 Mbit/s

95th percentile per-packet one-way delay: 63.384 ms

Loss rate: 3.29%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-08-17 06:34:52

End at: 2017-08-17 06:35:22

Below is generated by plot.py at 2017-08-17 09:14:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.00 Mbit/s

95th percentile per-packet one-way delay: 63.460 ms

Loss rate: 2.89%

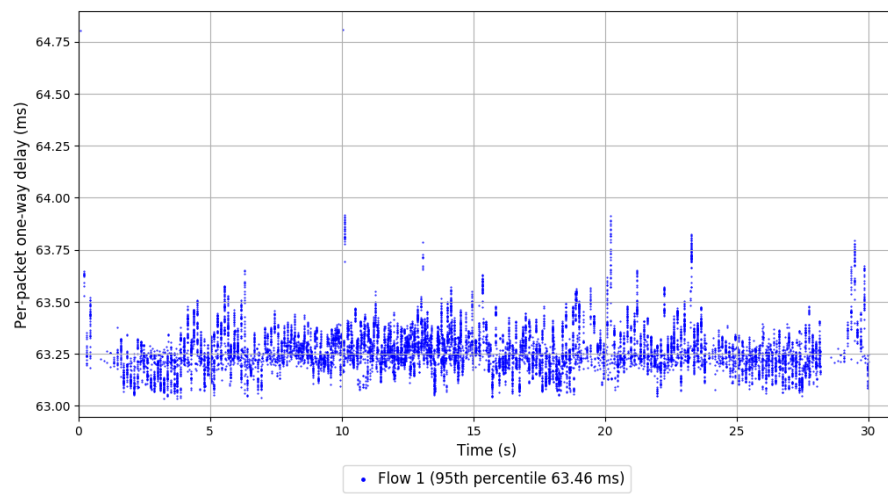
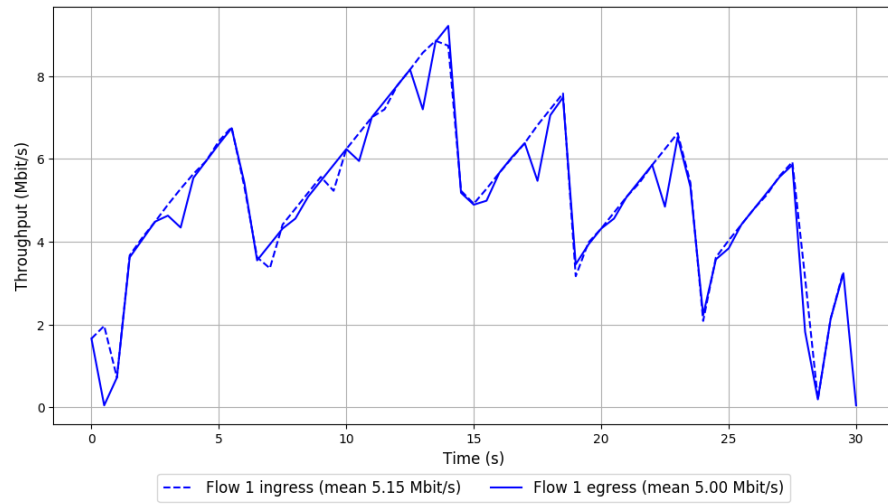
-- Flow 1:

Average throughput: 5.00 Mbit/s

95th percentile per-packet one-way delay: 63.460 ms

Loss rate: 2.89%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-08-17 06:45:27

End at: 2017-08-17 06:45:57

Below is generated by plot.py at 2017-08-17 09:14:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.70 Mbit/s

95th percentile per-packet one-way delay: 64.025 ms

Loss rate: 0.84%

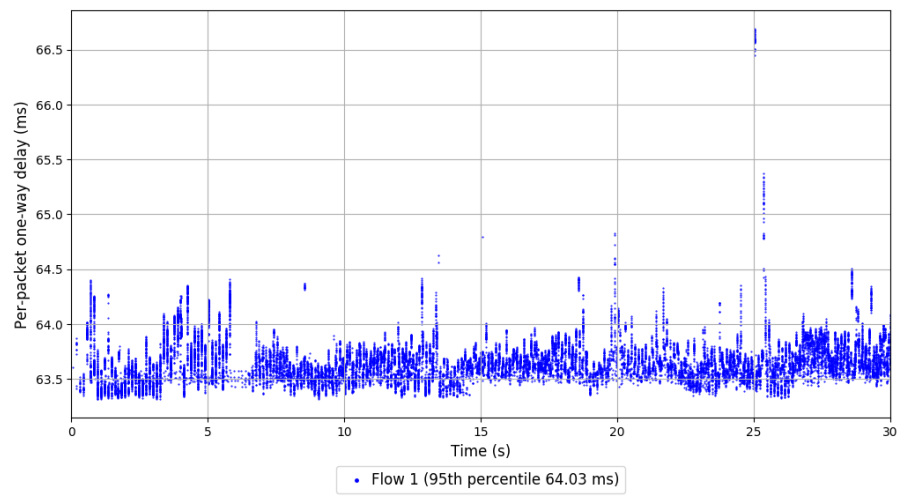
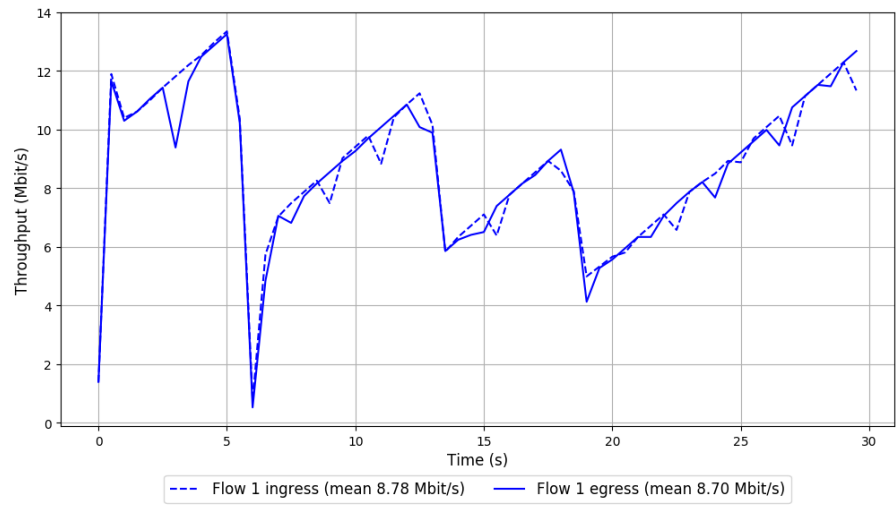
-- Flow 1:

Average throughput: 8.70 Mbit/s

95th percentile per-packet one-way delay: 64.025 ms

Loss rate: 0.84%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-08-17 06:55:59

End at: 2017-08-17 06:56:29

Below is generated by plot.py at 2017-08-17 09:14:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.53 Mbit/s

95th percentile per-packet one-way delay: 63.885 ms

Loss rate: 1.36%

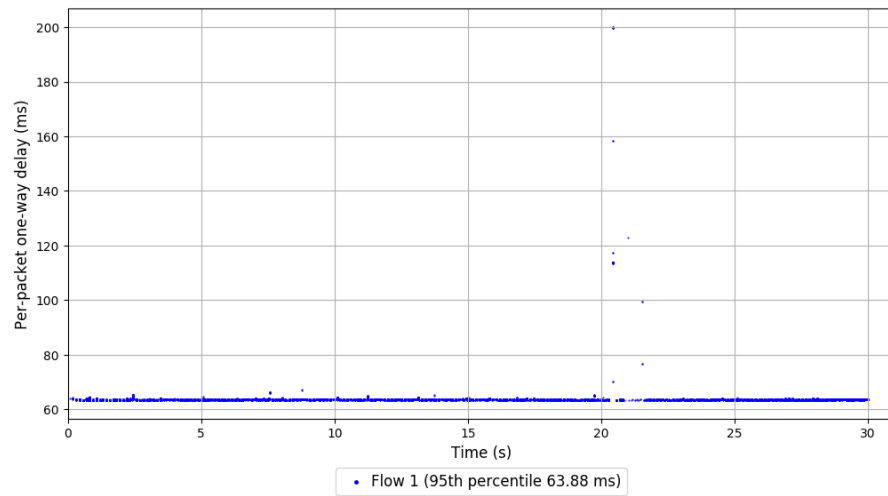
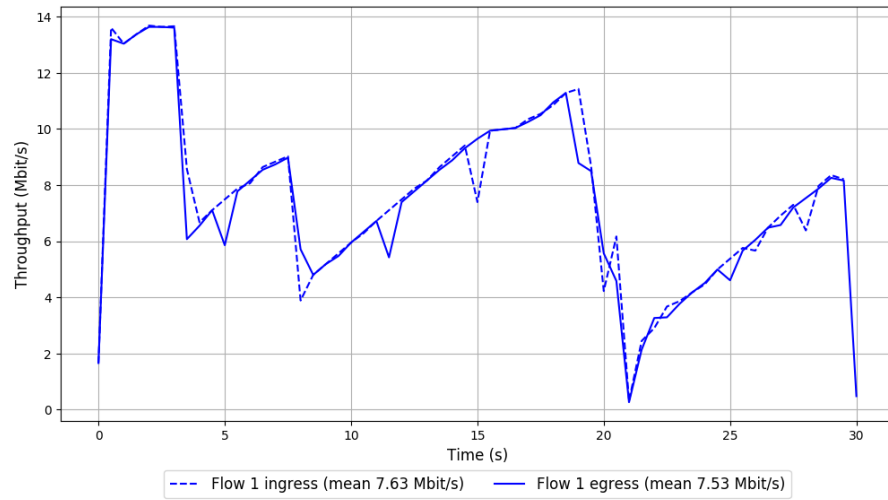
-- Flow 1:

Average throughput: 7.53 Mbit/s

95th percentile per-packet one-way delay: 63.885 ms

Loss rate: 1.36%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-08-17 07:06:10

End at: 2017-08-17 07:06:40

Below is generated by plot.py at 2017-08-17 09:14:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.50 Mbit/s

95th percentile per-packet one-way delay: 63.987 ms

Loss rate: 0.86%

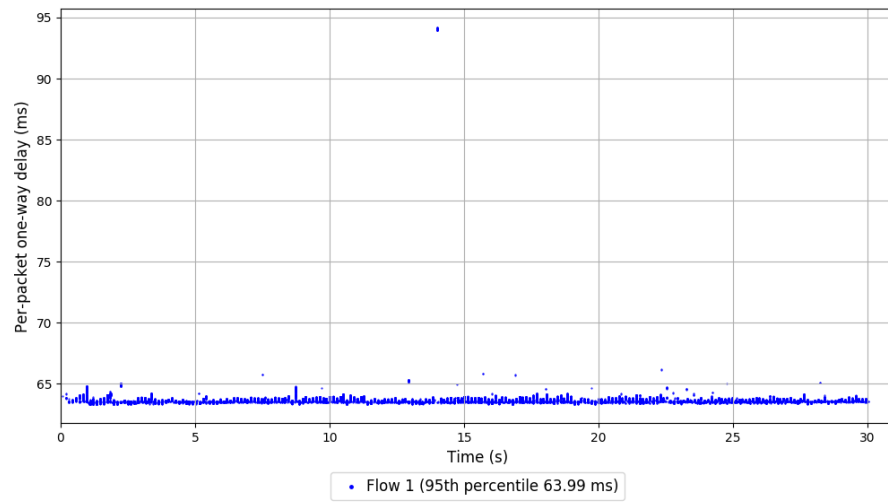
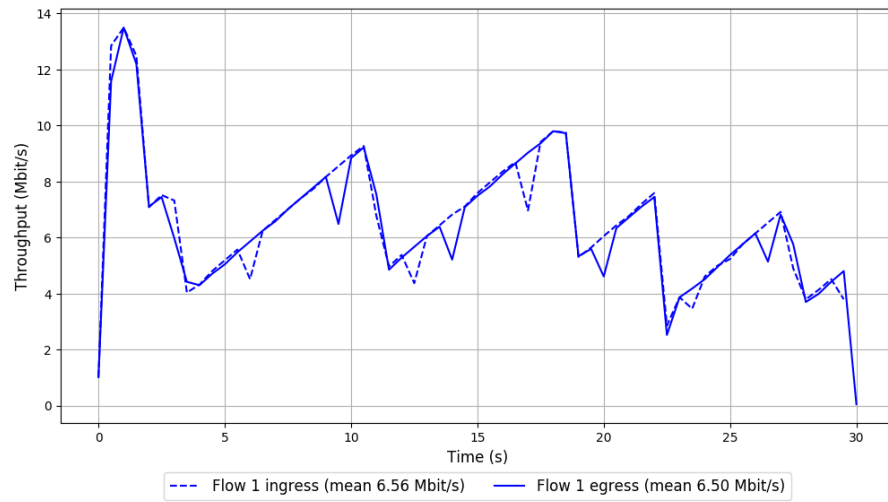
-- Flow 1:

Average throughput: 6.50 Mbit/s

95th percentile per-packet one-way delay: 63.987 ms

Loss rate: 0.86%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-08-17 07:16:24

End at: 2017-08-17 07:16:54

Below is generated by plot.py at 2017-08-17 09:14:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.42 Mbit/s

95th percentile per-packet one-way delay: 63.425 ms

Loss rate: 2.06%

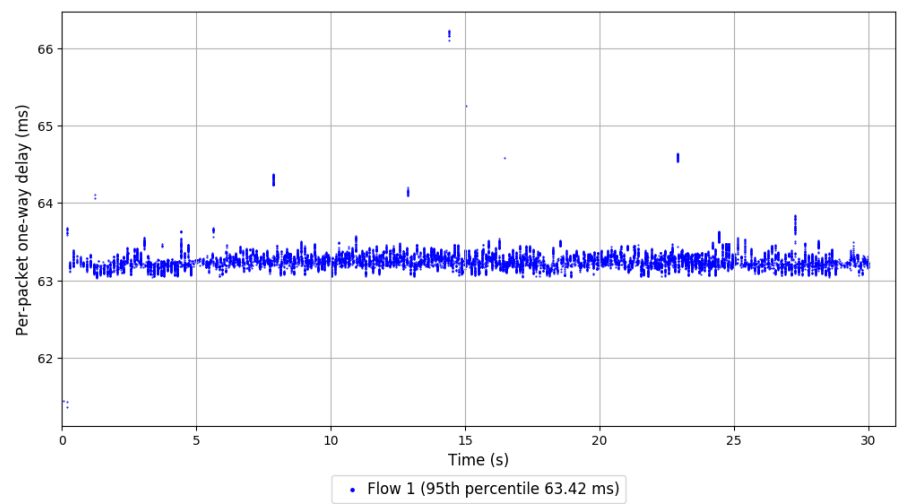
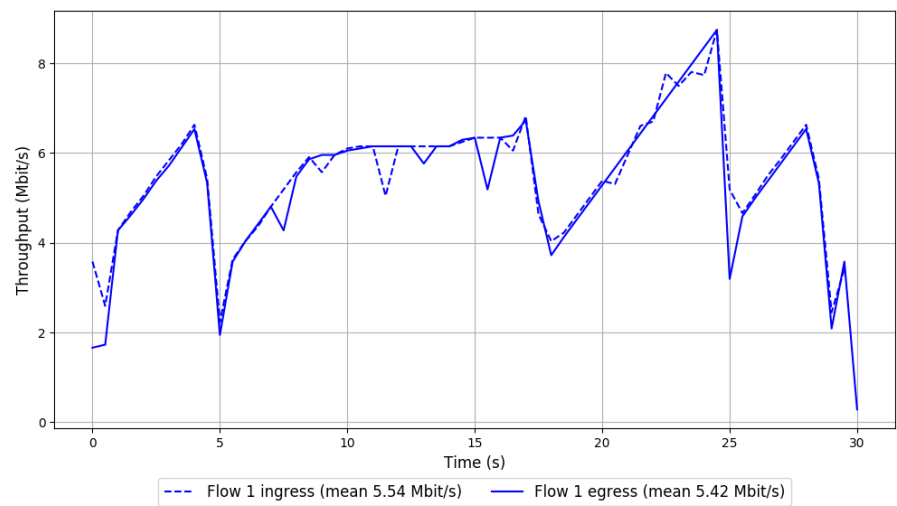
-- Flow 1:

Average throughput: 5.42 Mbit/s

95th percentile per-packet one-way delay: 63.425 ms

Loss rate: 2.06%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-08-17 07:26:53

End at: 2017-08-17 07:27:23

Below is generated by plot.py at 2017-08-17 09:14:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.35 Mbit/s

95th percentile per-packet one-way delay: 63.663 ms

Loss rate: 2.41%

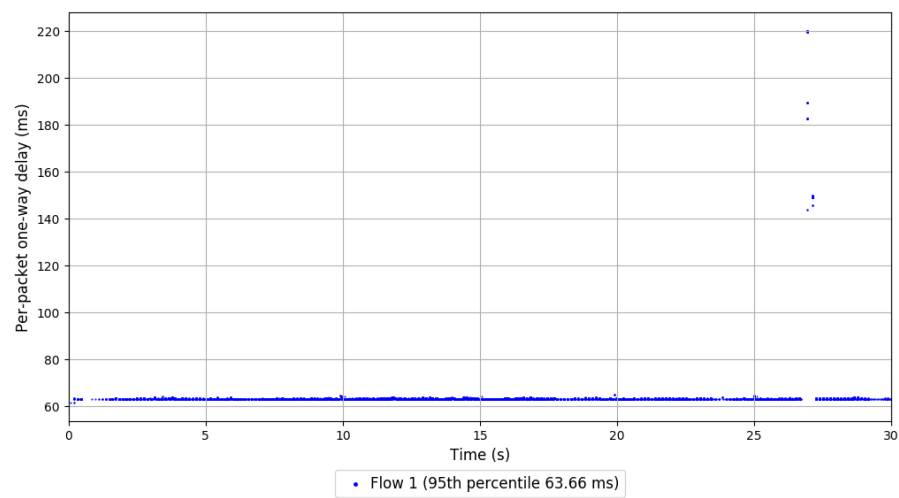
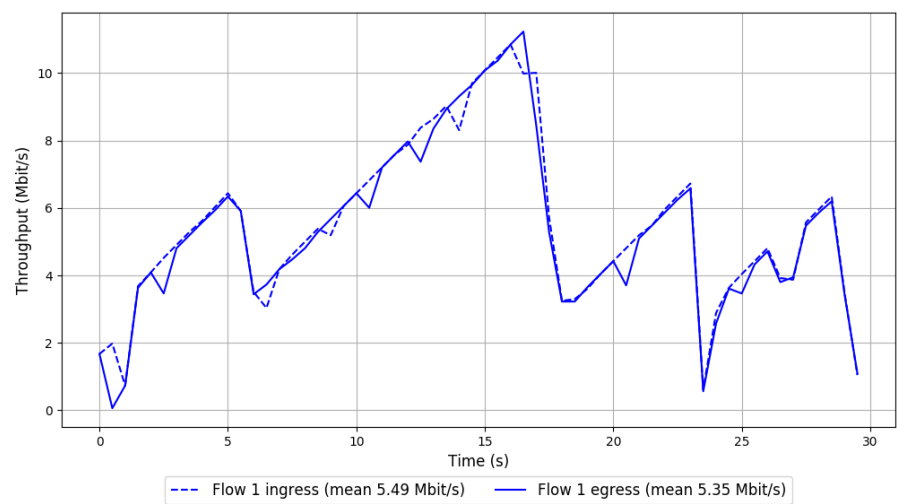
-- Flow 1:

Average throughput: 5.35 Mbit/s

95th percentile per-packet one-way delay: 63.663 ms

Loss rate: 2.41%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-08-17 07:37:10

End at: 2017-08-17 07:37:40

Below is generated by plot.py at 2017-08-17 09:14:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.78 Mbit/s

95th percentile per-packet one-way delay: 63.601 ms

Loss rate: 2.10%

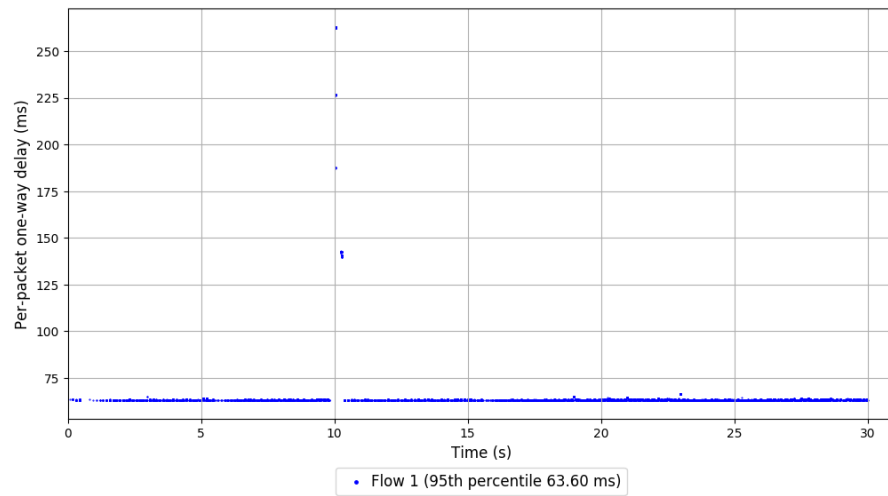
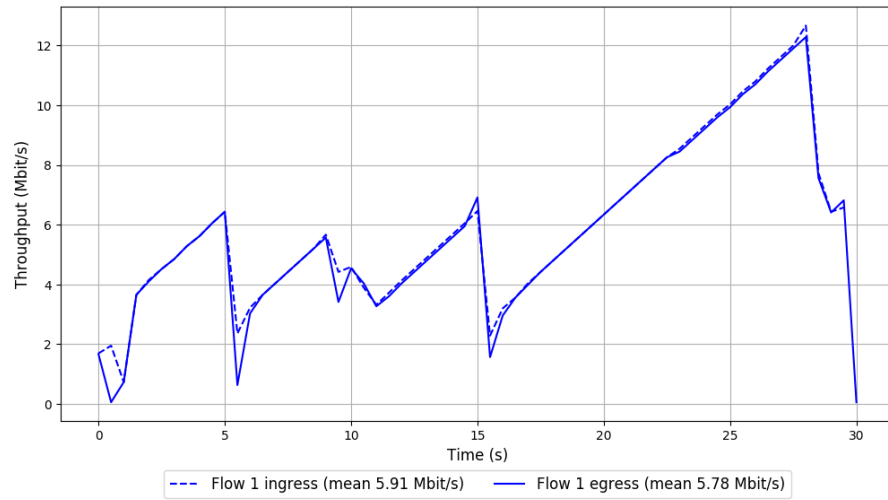
-- Flow 1:

Average throughput: 5.78 Mbit/s

95th percentile per-packet one-way delay: 63.601 ms

Loss rate: 2.10%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-08-17 07:47:09

End at: 2017-08-17 07:47:39

Below is generated by plot.py at 2017-08-17 09:14:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.30 Mbit/s

95th percentile per-packet one-way delay: 63.373 ms

Loss rate: 0.96%

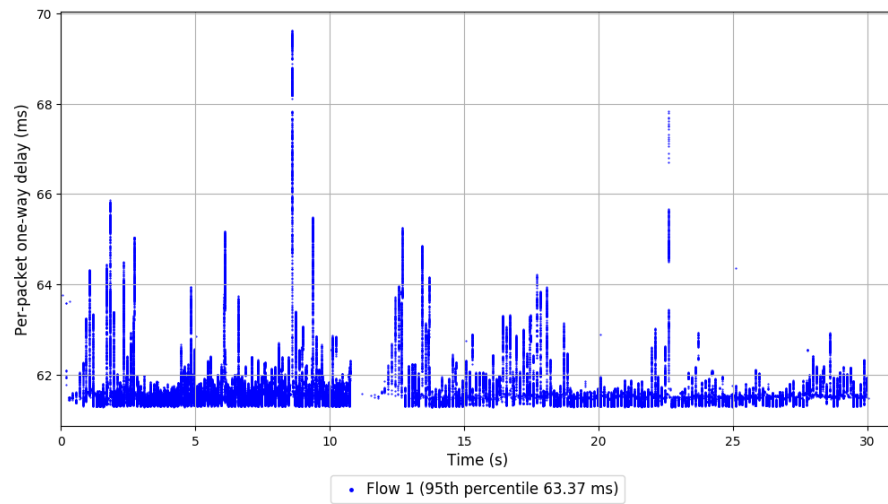
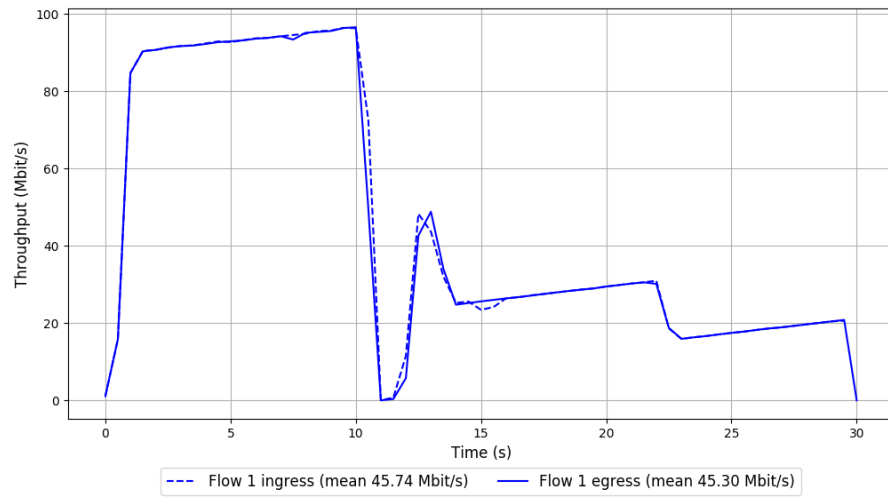
-- Flow 1:

Average throughput: 45.30 Mbit/s

95th percentile per-packet one-way delay: 63.373 ms

Loss rate: 0.96%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-08-17 06:20:56

End at: 2017-08-17 06:21:26

Below is generated by plot.py at 2017-08-17 09:14:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 140.09 Mbit/s

95th percentile per-packet one-way delay: 85.354 ms

Loss rate: 5.65%

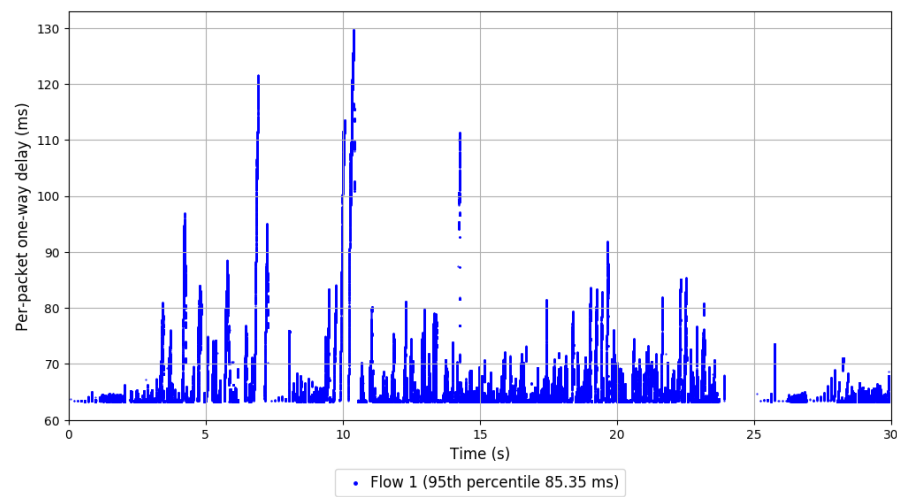
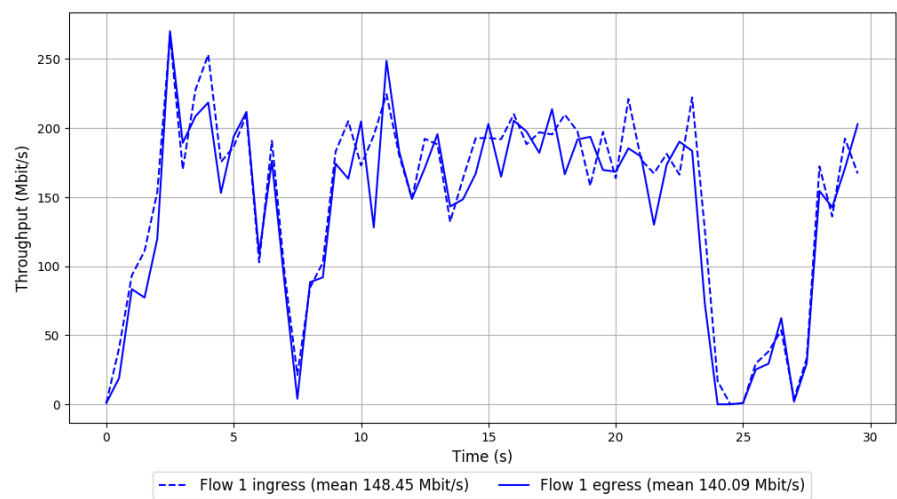
-- Flow 1:

Average throughput: 140.09 Mbit/s

95th percentile per-packet one-way delay: 85.354 ms

Loss rate: 5.65%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-08-17 06:31:30

End at: 2017-08-17 06:32:00

Below is generated by plot.py at 2017-08-17 09:14:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.93 Mbit/s

95th percentile per-packet one-way delay: 139.962 ms

Loss rate: 14.06%

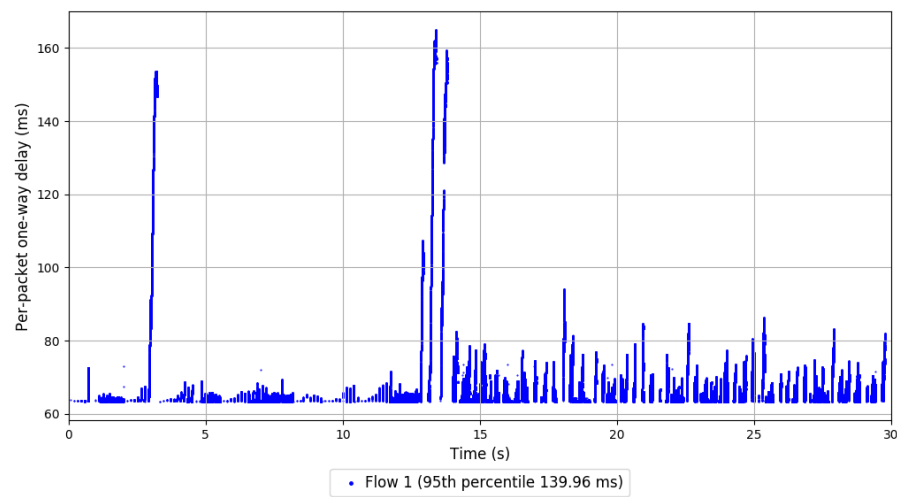
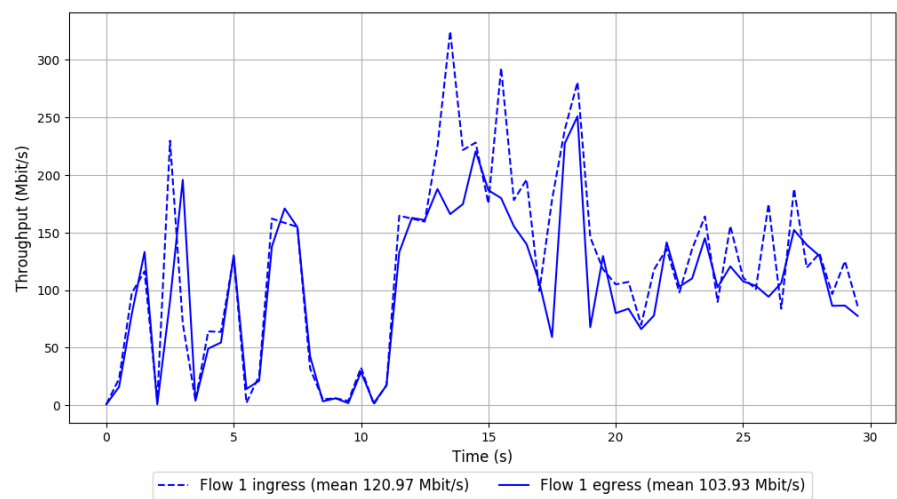
-- Flow 1:

Average throughput: 103.93 Mbit/s

95th percentile per-packet one-way delay: 139.962 ms

Loss rate: 14.06%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-08-17 06:42:08

End at: 2017-08-17 06:42:38

Below is generated by plot.py at 2017-08-17 09:14:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.98 Mbit/s

95th percentile per-packet one-way delay: 67.163 ms

Loss rate: 77.22%

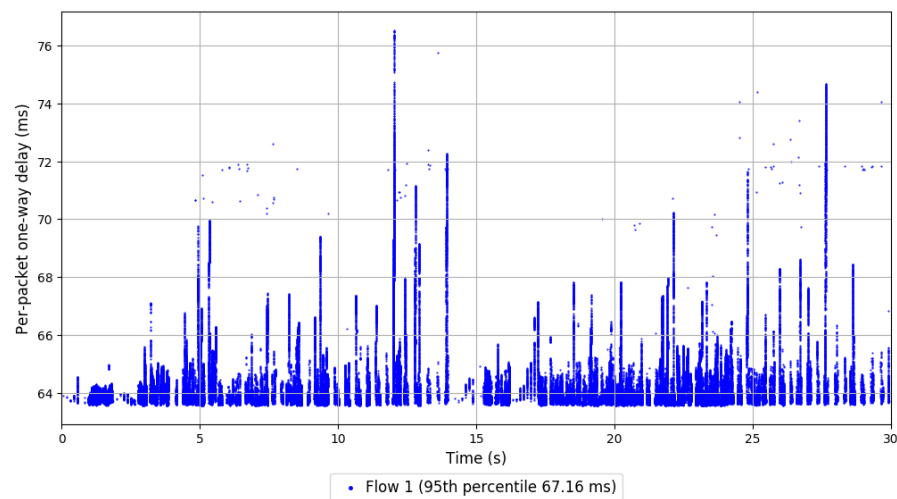
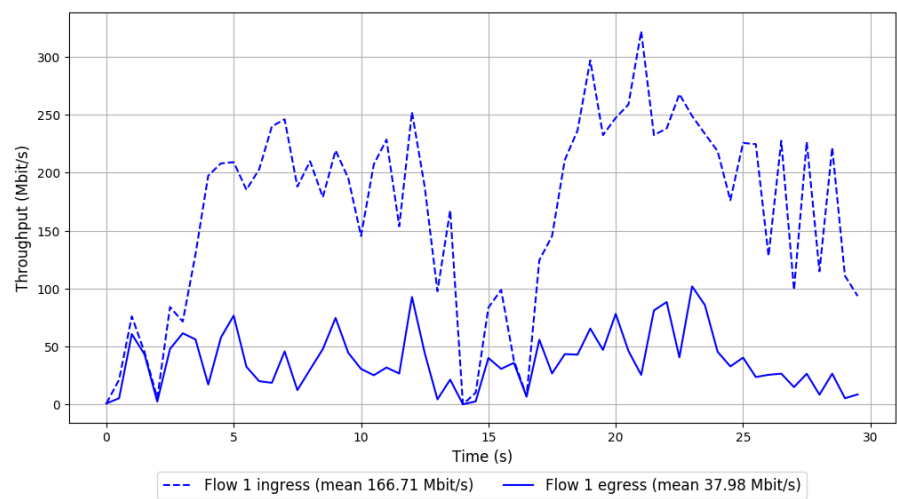
-- Flow 1:

Average throughput: 37.98 Mbit/s

95th percentile per-packet one-way delay: 67.163 ms

Loss rate: 77.22%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-08-17 06:52:25

End at: 2017-08-17 06:52:55

Below is generated by plot.py at 2017-08-17 09:15:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 147.13 Mbit/s

95th percentile per-packet one-way delay: 84.120 ms

Loss rate: 6.31%

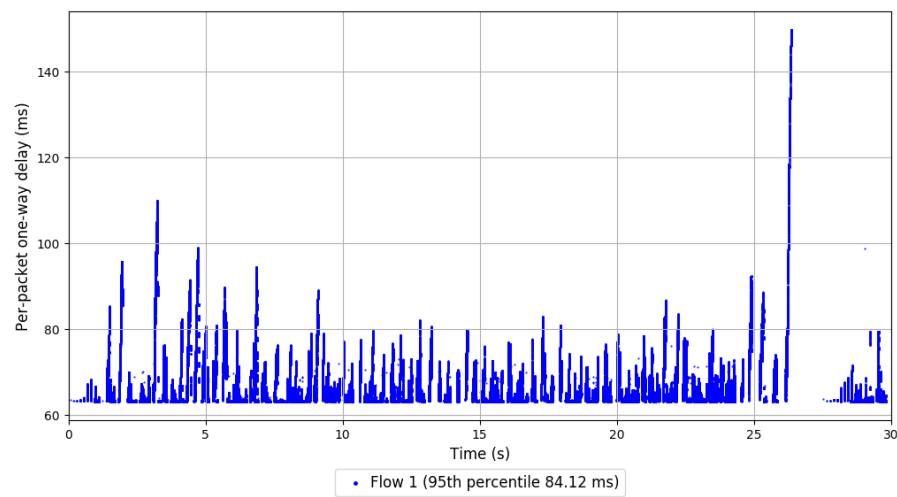
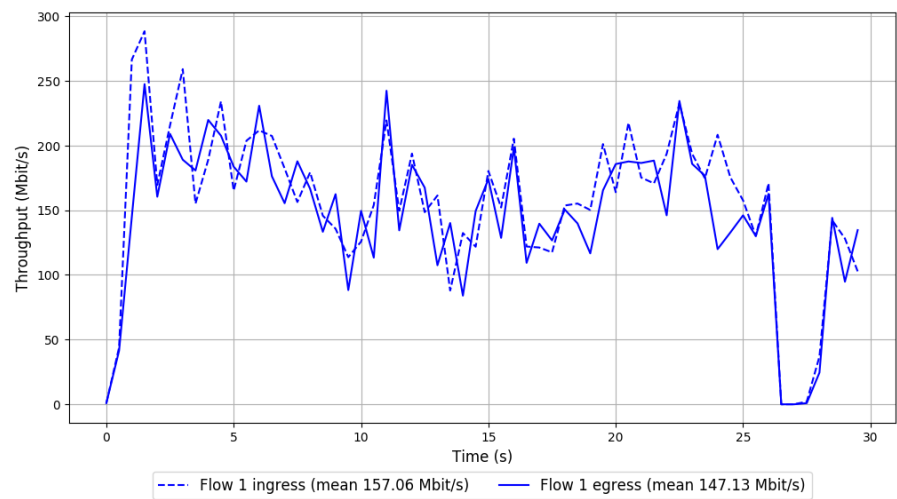
-- Flow 1:

Average throughput: 147.13 Mbit/s

95th percentile per-packet one-way delay: 84.120 ms

Loss rate: 6.31%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-08-17 07:02:38

End at: 2017-08-17 07:03:08

Below is generated by plot.py at 2017-08-17 09:15:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.65 Mbit/s

95th percentile per-packet one-way delay: 95.179 ms

Loss rate: 9.88%

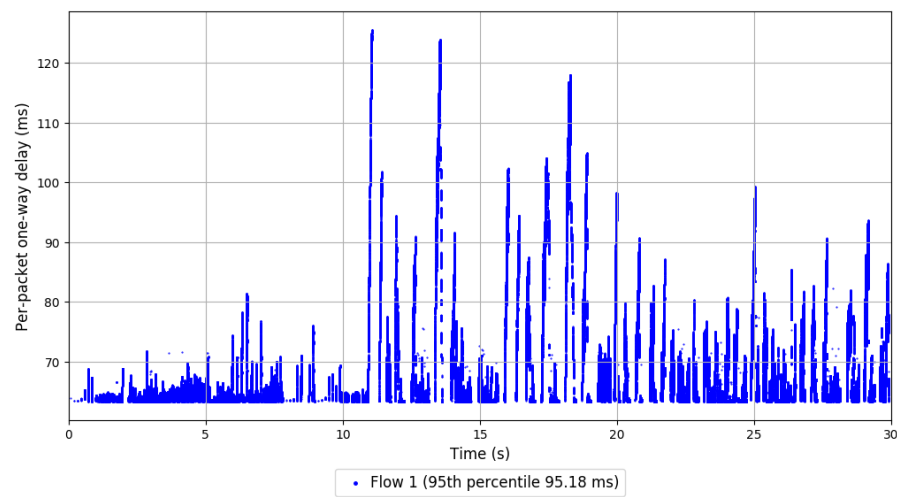
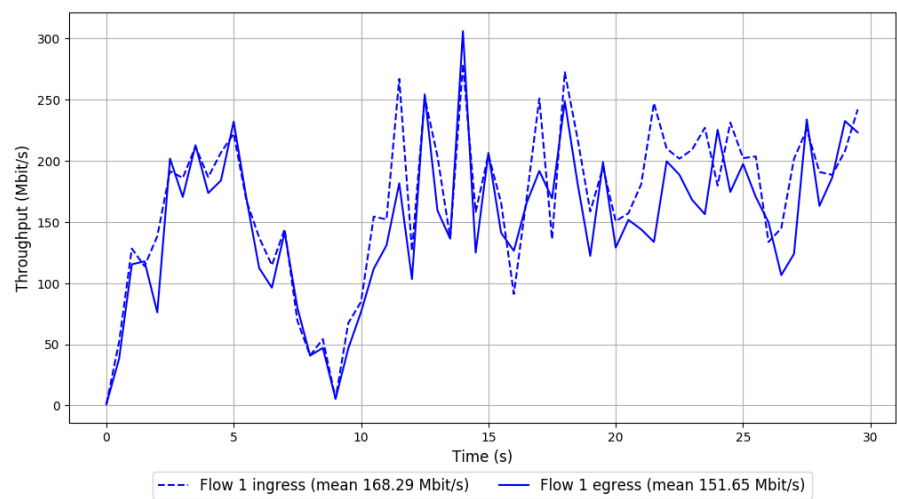
-- Flow 1:

Average throughput: 151.65 Mbit/s

95th percentile per-packet one-way delay: 95.179 ms

Loss rate: 9.88%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-08-17 07:13:10

End at: 2017-08-17 07:13:40

Below is generated by plot.py at 2017-08-17 09:15:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.38 Mbit/s

95th percentile per-packet one-way delay: 69.432 ms

Loss rate: 81.96%

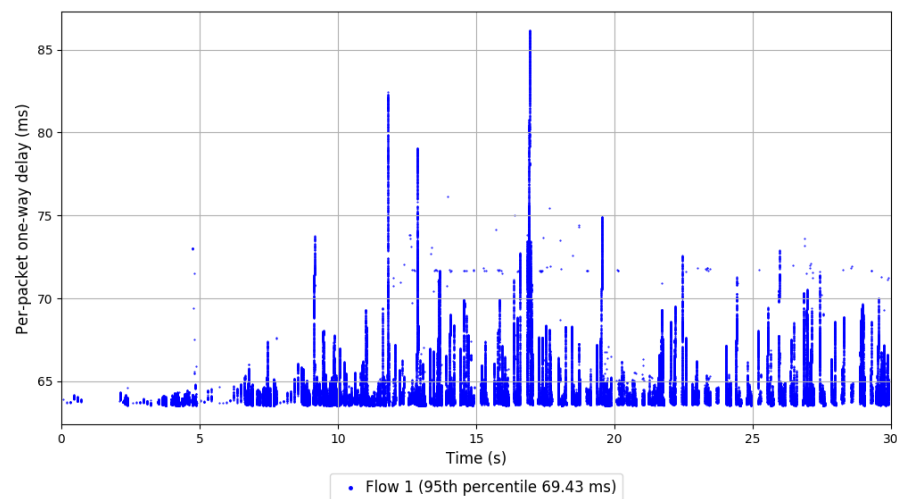
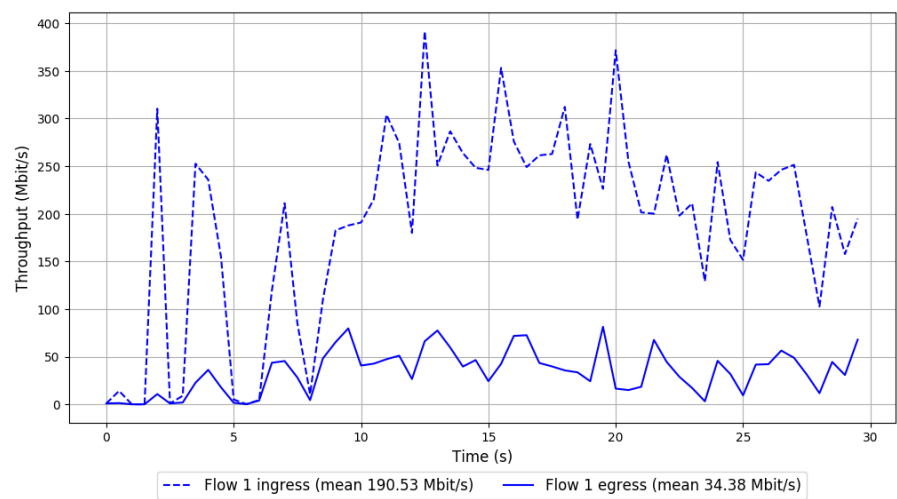
-- Flow 1:

Average throughput: 34.38 Mbit/s

95th percentile per-packet one-way delay: 69.432 ms

Loss rate: 81.96%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-08-17 07:23:30

End at: 2017-08-17 07:24:00

Below is generated by plot.py at 2017-08-17 09:15:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.82 Mbit/s

95th percentile per-packet one-way delay: 71.786 ms

Loss rate: 51.59%

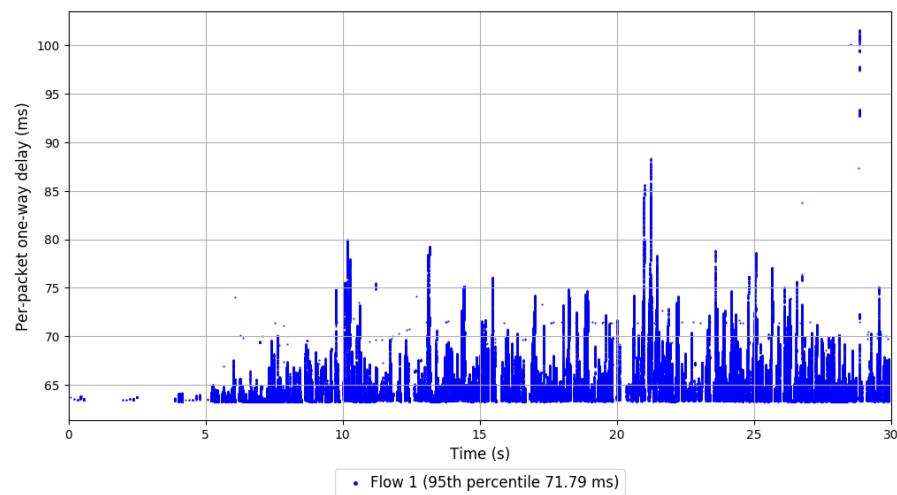
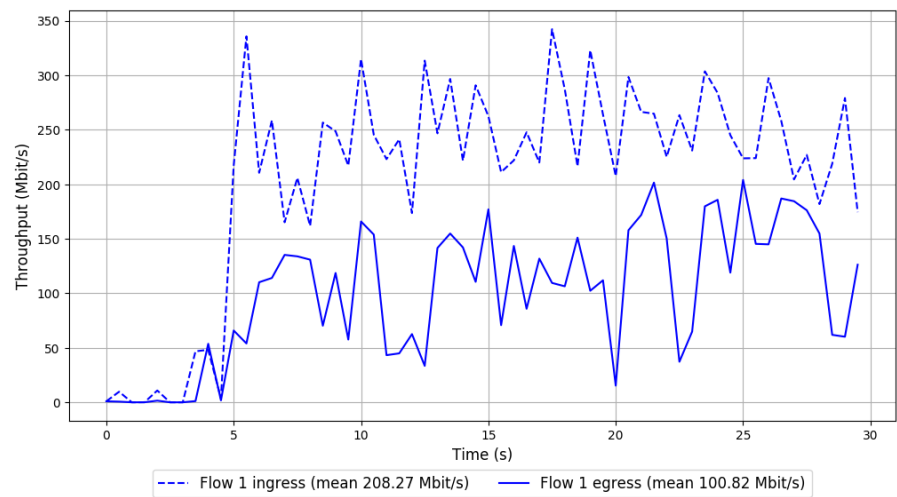
-- Flow 1:

Average throughput: 100.82 Mbit/s

95th percentile per-packet one-way delay: 71.786 ms

Loss rate: 51.59%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-08-17 07:33:51

End at: 2017-08-17 07:34:21

Below is generated by plot.py at 2017-08-17 09:15:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.00 Mbit/s

95th percentile per-packet one-way delay: 71.411 ms

Loss rate: 97.97%

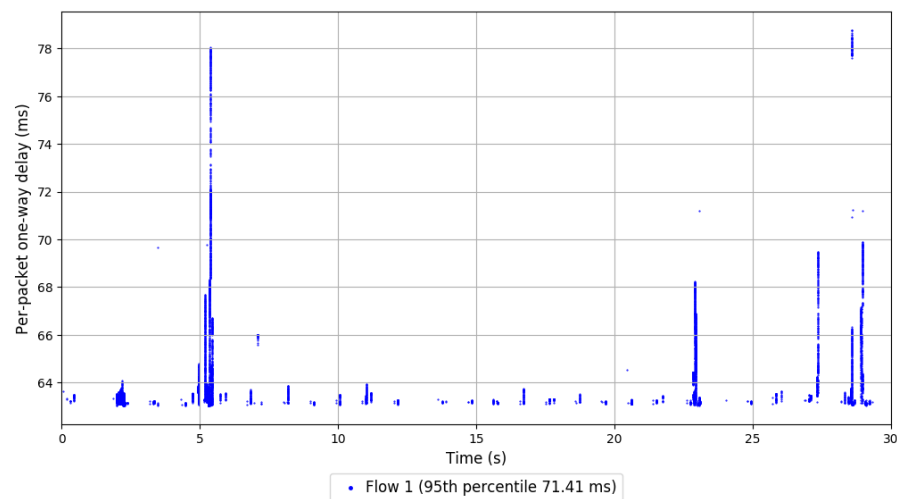
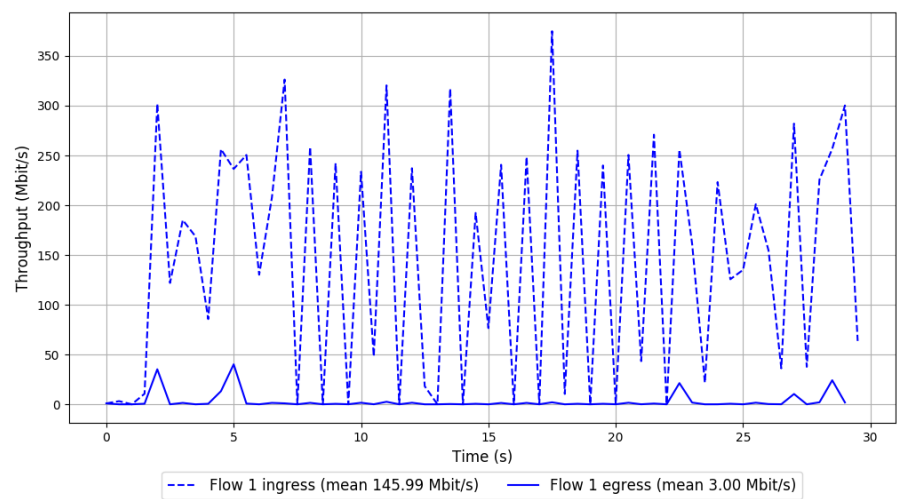
-- Flow 1:

Average throughput: 3.00 Mbit/s

95th percentile per-packet one-way delay: 71.411 ms

Loss rate: 97.97%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-08-17 07:43:47

End at: 2017-08-17 07:44:17

Below is generated by plot.py at 2017-08-17 09:15:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.56 Mbit/s

95th percentile per-packet one-way delay: 110.292 ms

Loss rate: 11.98%

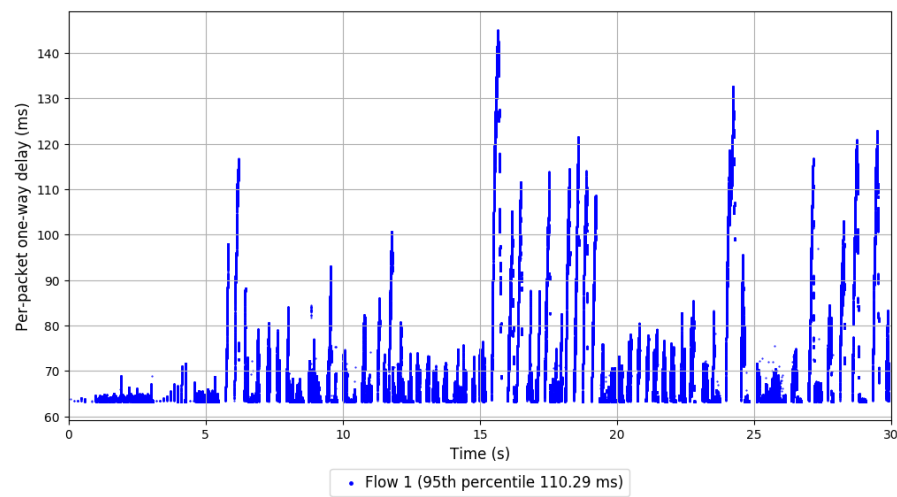
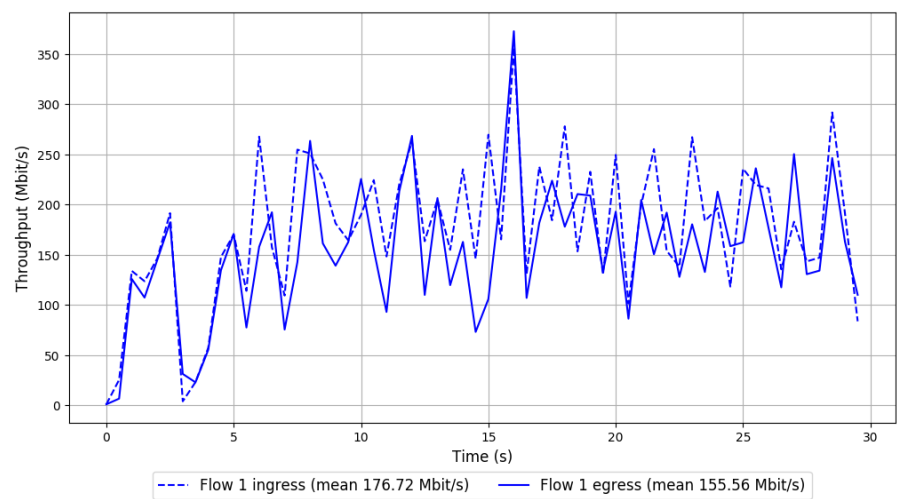
-- Flow 1:

Average throughput: 155.56 Mbit/s

95th percentile per-packet one-way delay: 110.292 ms

Loss rate: 11.98%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-08-17 07:53:49

End at: 2017-08-17 07:54:19

Below is generated by plot.py at 2017-08-17 09:15:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.11 Mbit/s

95th percentile per-packet one-way delay: 65.118 ms

Loss rate: 92.28%

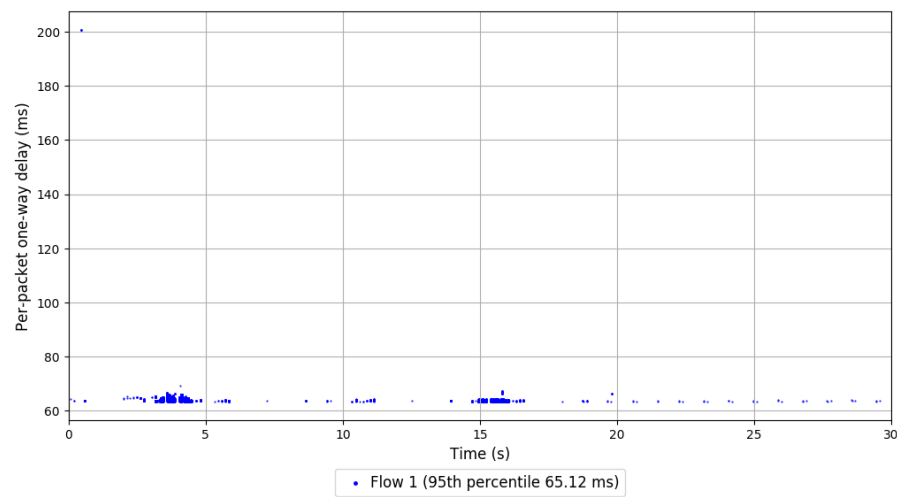
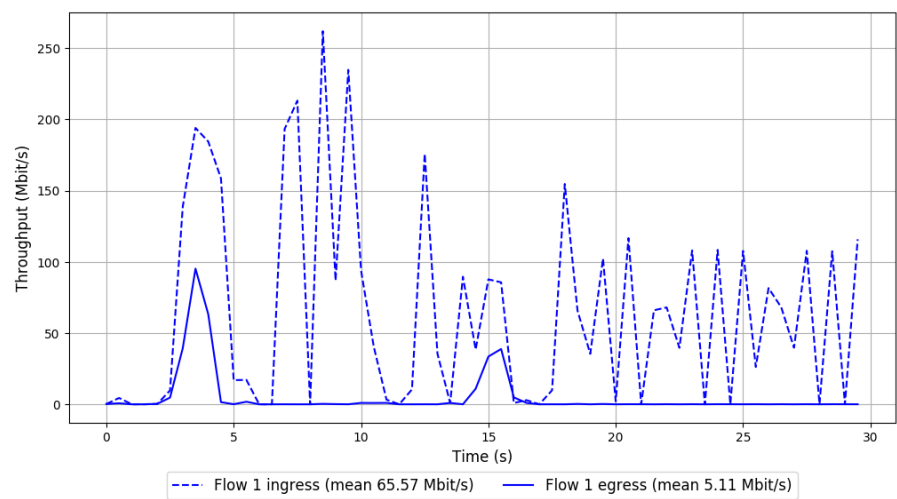
-- Flow 1:

Average throughput: 5.11 Mbit/s

95th percentile per-packet one-way delay: 65.118 ms

Loss rate: 92.28%

Run 10: Report of Verus — Data Link

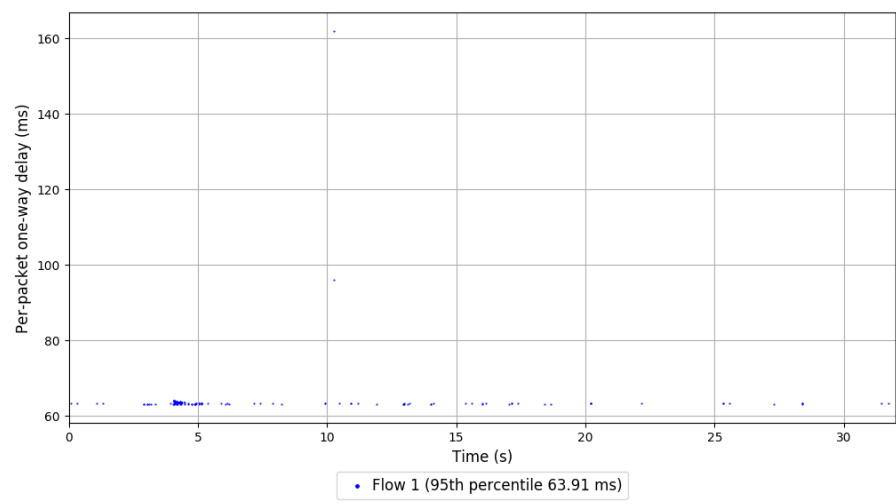
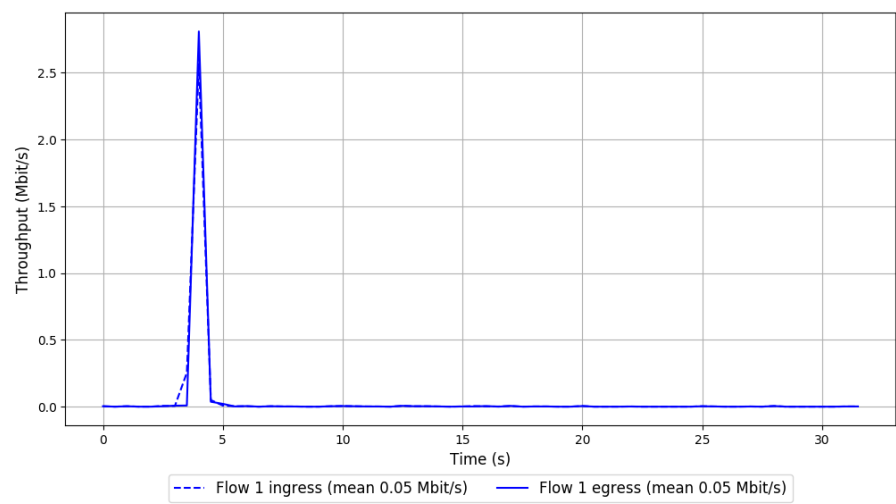


```
Run 1: Statistics of WebRTC media

Start at: 2017-08-17 06:23:41
End at: 2017-08-17 06:24:11

# Below is generated by plot.py at 2017-08-17 09:15:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.910 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.910 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link

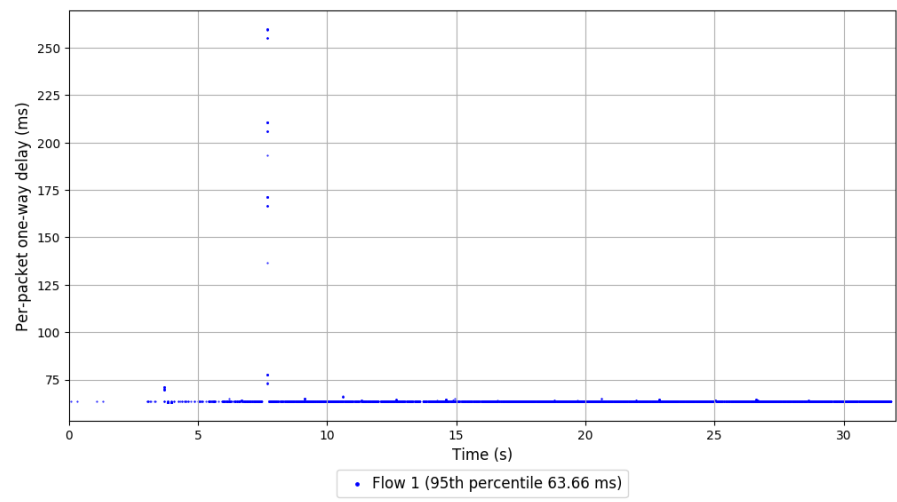
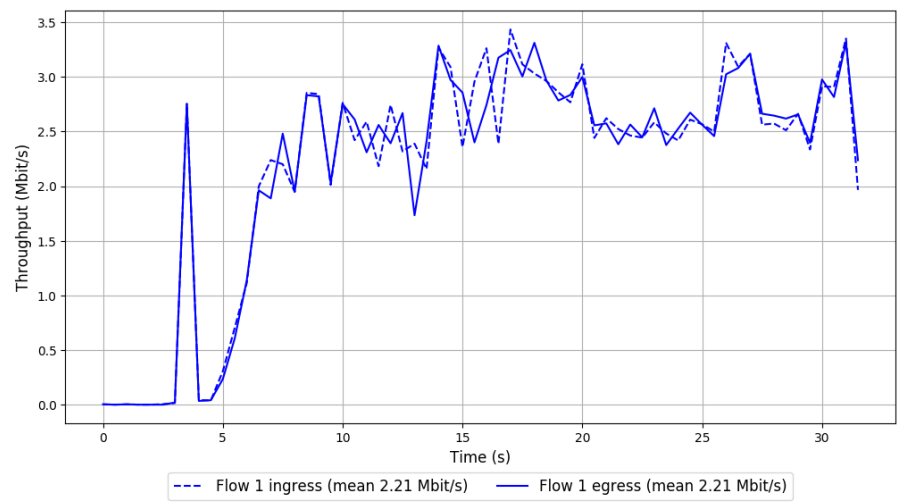


```
Run 2: Statistics of WebRTC media

Start at: 2017-08-17 06:34:14
End at: 2017-08-17 06:34:44

# Below is generated by plot.py at 2017-08-17 09:15:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.21 Mbit/s
95th percentile per-packet one-way delay: 63.665 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.21 Mbit/s
95th percentile per-packet one-way delay: 63.665 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-08-17 06:44:49

End at: 2017-08-17 06:45:19

Below is generated by plot.py at 2017-08-17 09:15:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.673 ms

Loss rate: 0.00%

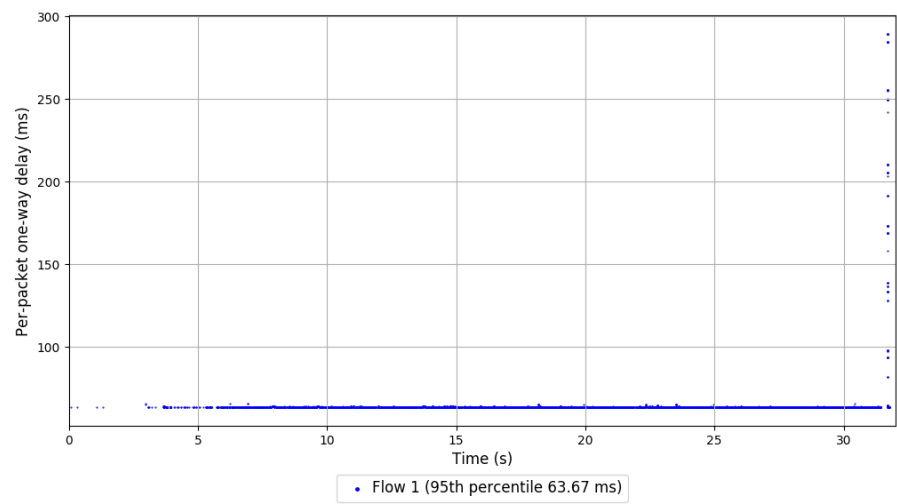
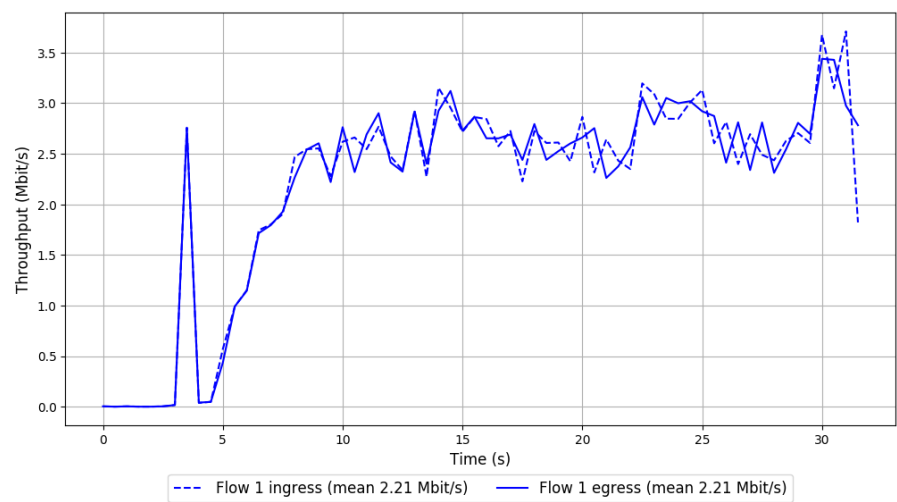
-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.673 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-08-17 06:55:21

End at: 2017-08-17 06:55:51

Below is generated by plot.py at 2017-08-17 09:15:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 63.647 ms

Loss rate: 0.00%

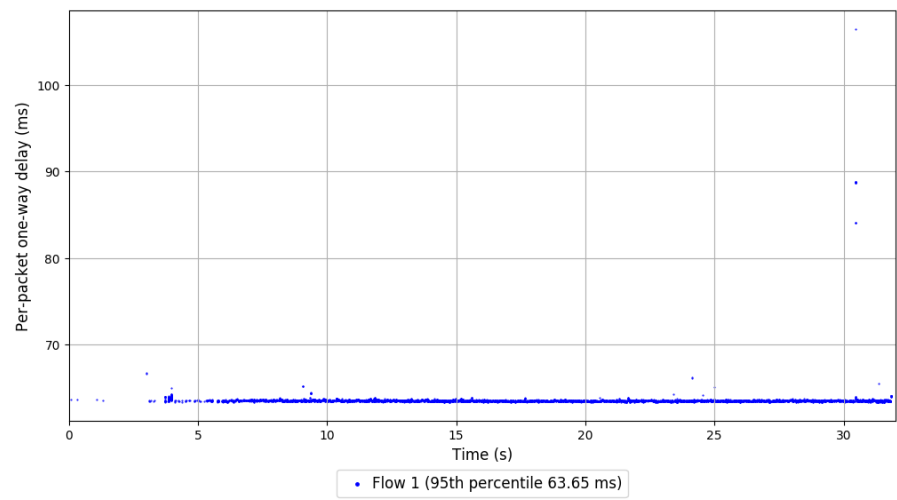
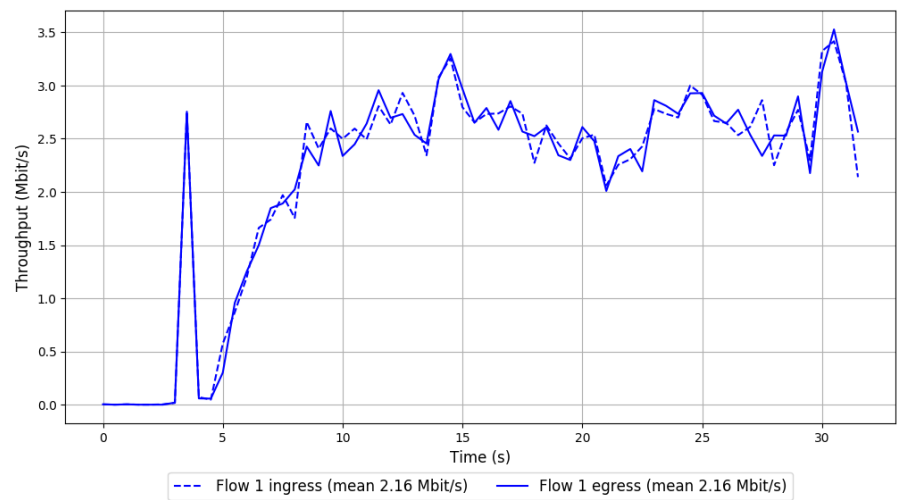
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 63.647 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-08-17 07:05:32

End at: 2017-08-17 07:06:02

Below is generated by plot.py at 2017-08-17 09:15:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 63.663 ms

Loss rate: 0.00%

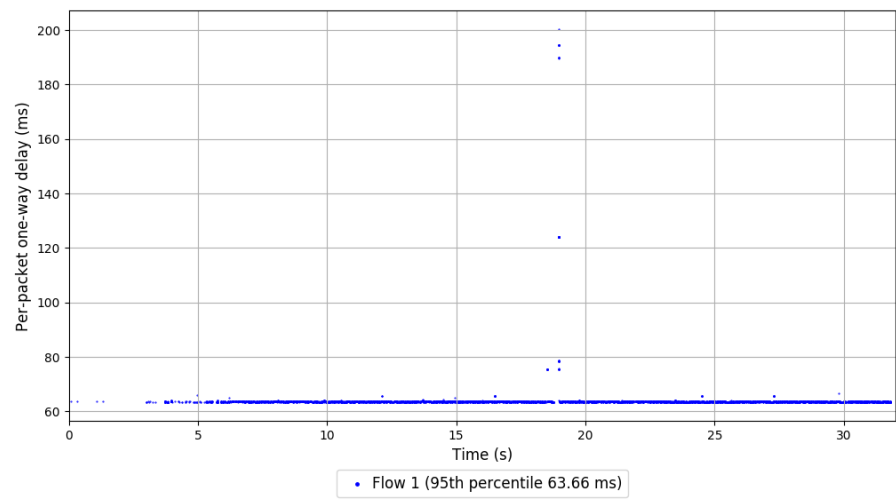
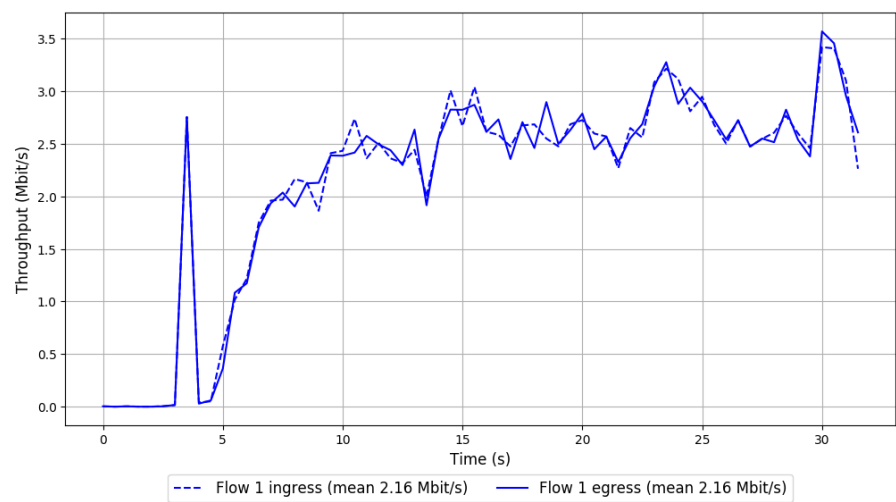
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 63.663 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-08-17 07:15:46

End at: 2017-08-17 07:16:16

Below is generated by plot.py at 2017-08-17 09:15:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 63.322 ms

Loss rate: 0.00%

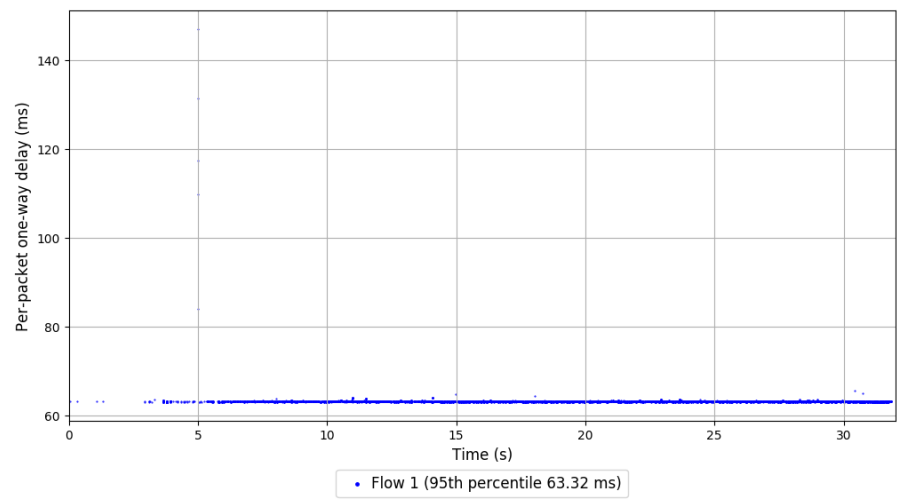
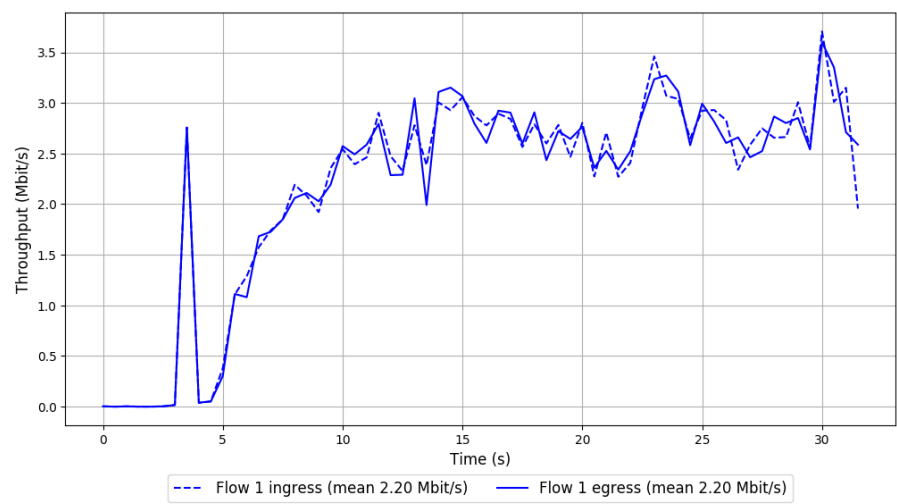
-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 63.322 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-08-17 07:26:15

End at: 2017-08-17 07:26:45

Below is generated by plot.py at 2017-08-17 09:15:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.599 ms

Loss rate: 0.00%

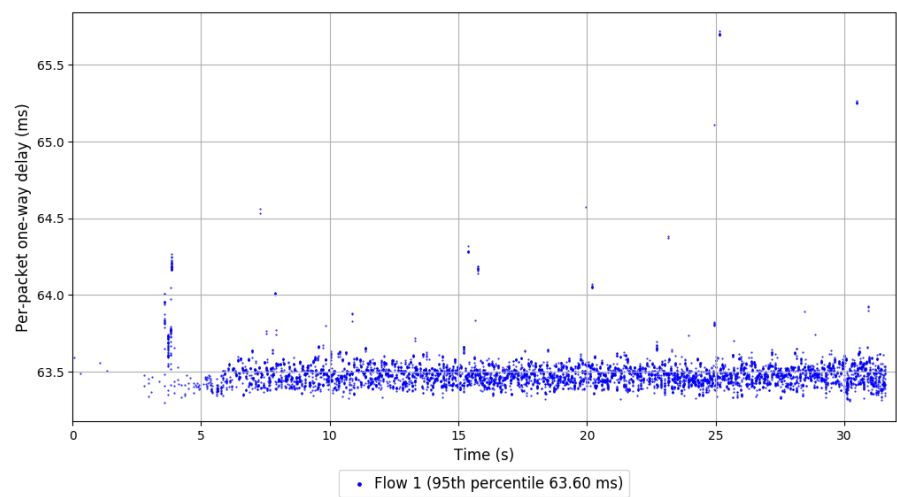
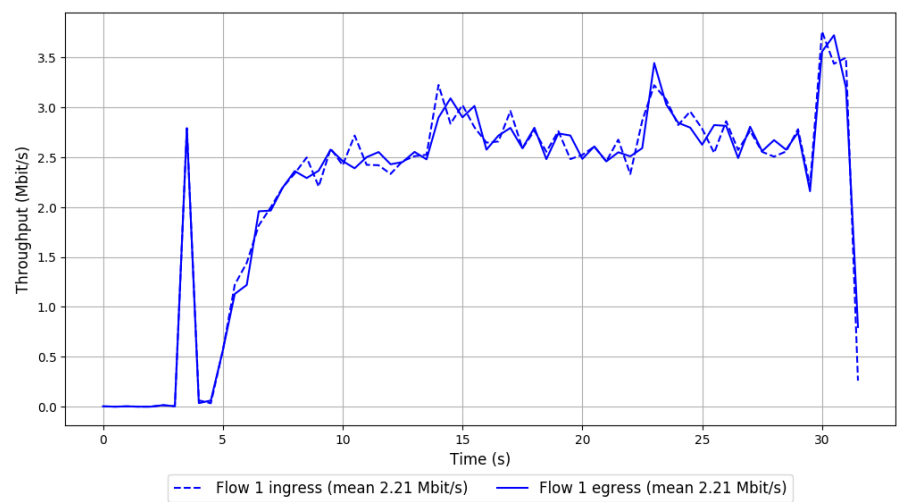
-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 63.599 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-08-17 07:36:32

End at: 2017-08-17 07:37:02

Below is generated by plot.py at 2017-08-17 09:15:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 63.365 ms

Loss rate: 0.00%

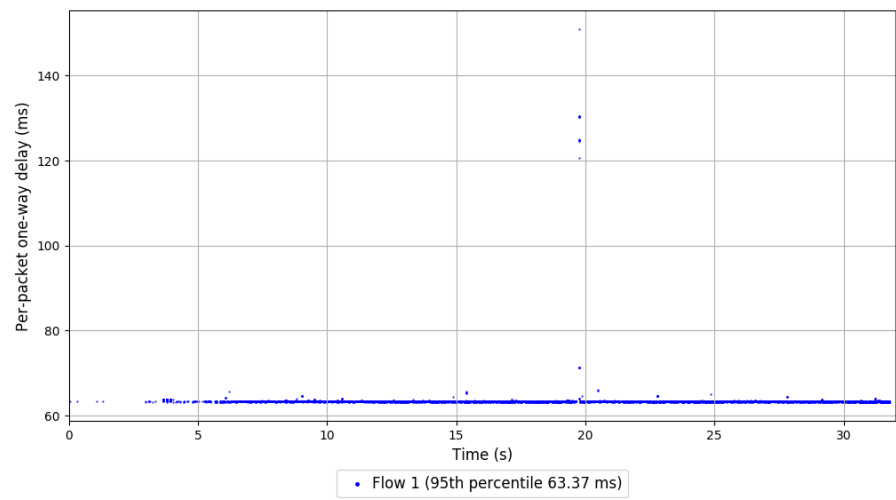
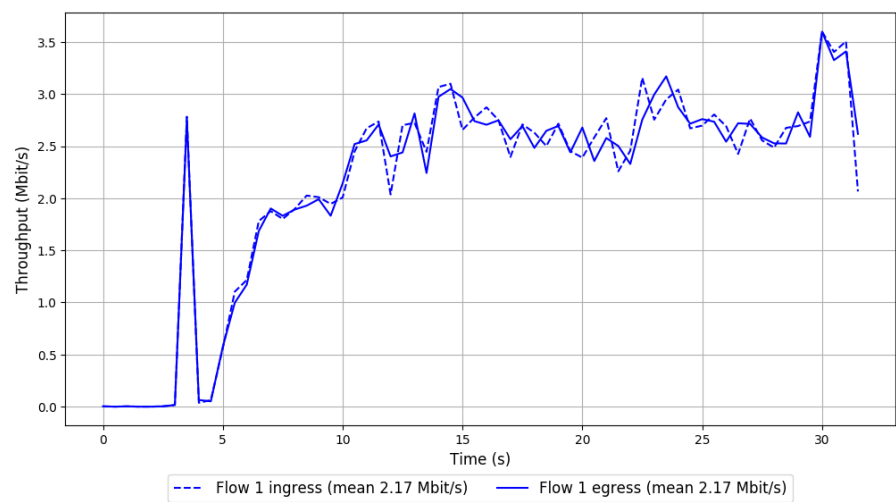
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 63.365 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-08-17 07:46:31

End at: 2017-08-17 07:47:01

Below is generated by plot.py at 2017-08-17 09:15:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 63.559 ms

Loss rate: 0.00%

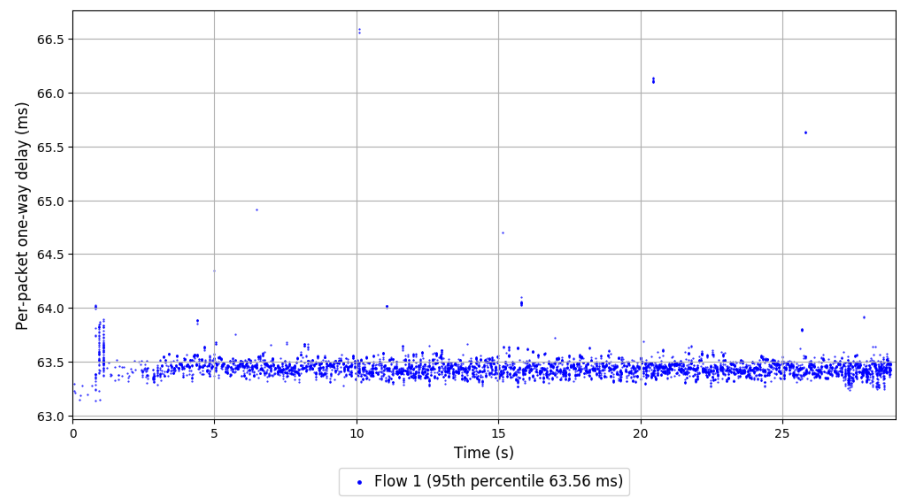
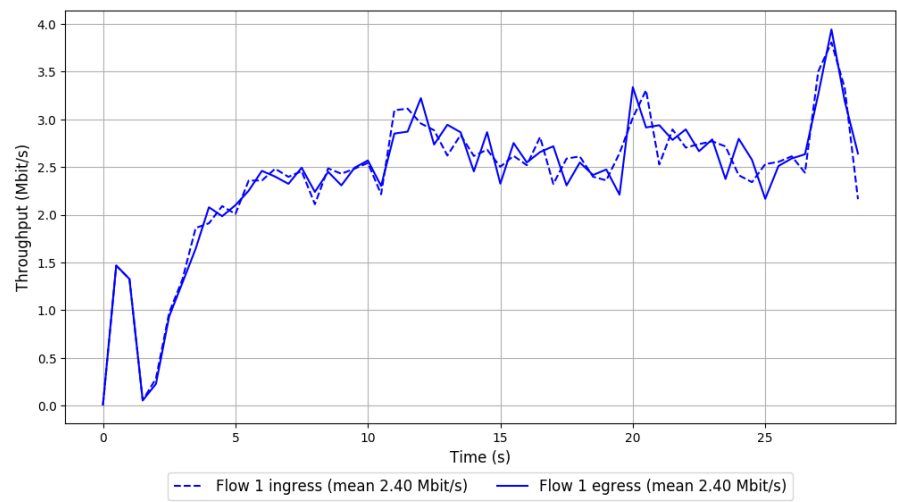
-- Flow 1:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 63.559 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-08-17 07:56:32

End at: 2017-08-17 07:57:03

Below is generated by plot.py at 2017-08-17 09:15:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 63.567 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 63.567 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

