

Pantheon Report

Generated at 2017-08-17 04:10:56 (UTC).

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

Repeated the test of 15 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

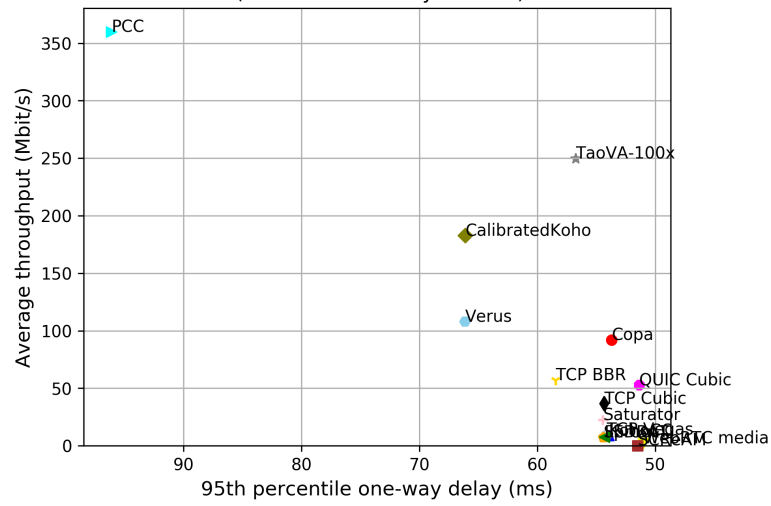
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

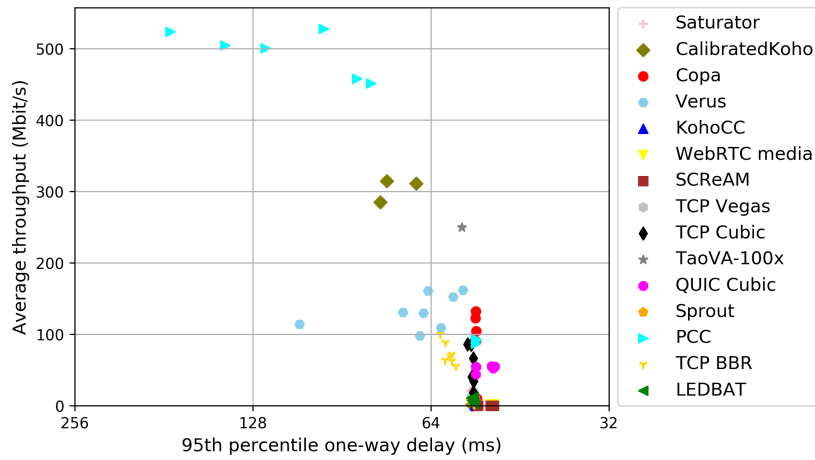
Git summary:

```
branch: master @ 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-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	57.00	58.46	19.53
CalibratedKoho	5	182.93	66.11	27.89
Copa	5	92.01	53.69	17.45
TCP Cubic	10	36.78	54.34	1.48
KohoCC	10	9.02	53.95	19.25
LEDBAT	10	7.47	54.32	1.36
PCC	9	359.84	96.11	5.33
QUIC Cubic	9	52.92	51.36	0.00
Saturator	7	22.36	54.44	0.15
SCReAM	8	0.21	51.50	0.00
Sprout	10	7.19	54.40	1.86
TaoVA-100x	1	249.73	56.74	0.37
TCP Vegas	10	9.71	54.14	0.24
Verus	10	108.00	66.14	26.75
WebRTC media	10	2.24	51.04	0.10

Run 1: Statistics of TCP BBR

Start at: 2017-08-17 01:20:01

End at: 2017-08-17 01:20:31

Below is generated by plot.py at 2017-08-17 03:53:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.54 Mbit/s

95th percentile per-packet one-way delay: 58.980 ms

Loss rate: 15.11%

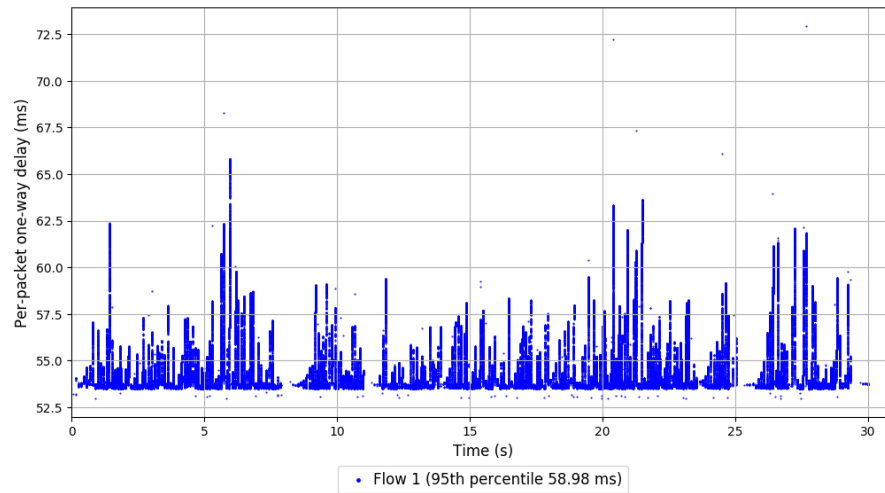
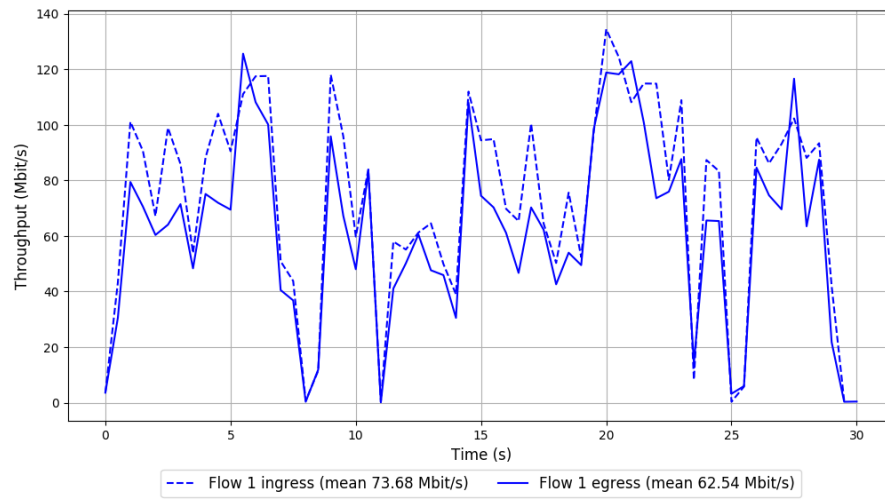
-- Flow 1:

Average throughput: 62.54 Mbit/s

95th percentile per-packet one-way delay: 58.980 ms

Loss rate: 15.11%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-08-17 01:29:44

End at: 2017-08-17 01:30:14

Below is generated by plot.py at 2017-08-17 03:53:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.25 Mbit/s

95th percentile per-packet one-way delay: 61.662 ms

Loss rate: 3.90%

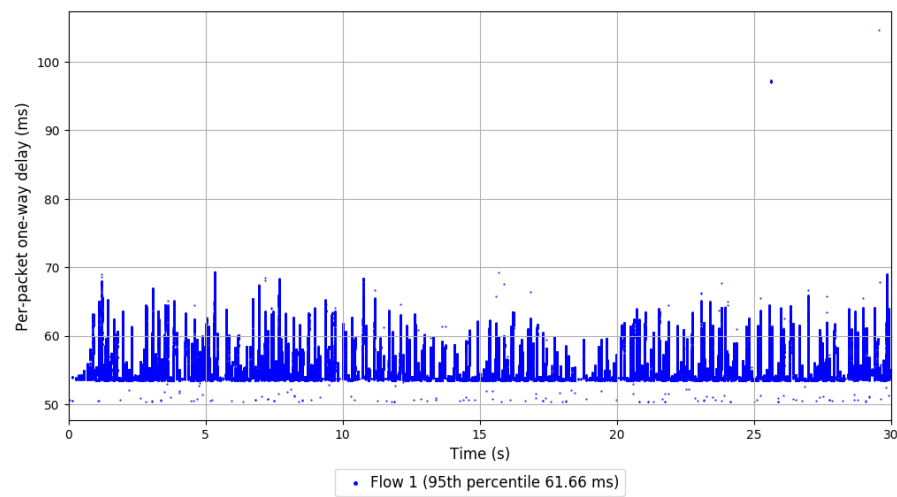
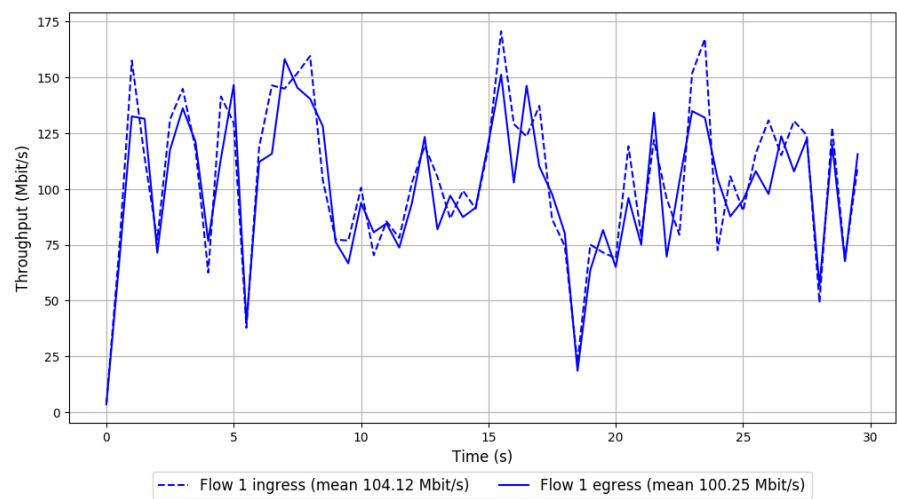
-- Flow 1:

Average throughput: 100.25 Mbit/s

95th percentile per-packet one-way delay: 61.662 ms

Loss rate: 3.90%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-08-17 01:40:05

End at: 2017-08-17 01:40:35

Below is generated by plot.py at 2017-08-17 03:53:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.33 Mbit/s

95th percentile per-packet one-way delay: 58.076 ms

Loss rate: 19.61%

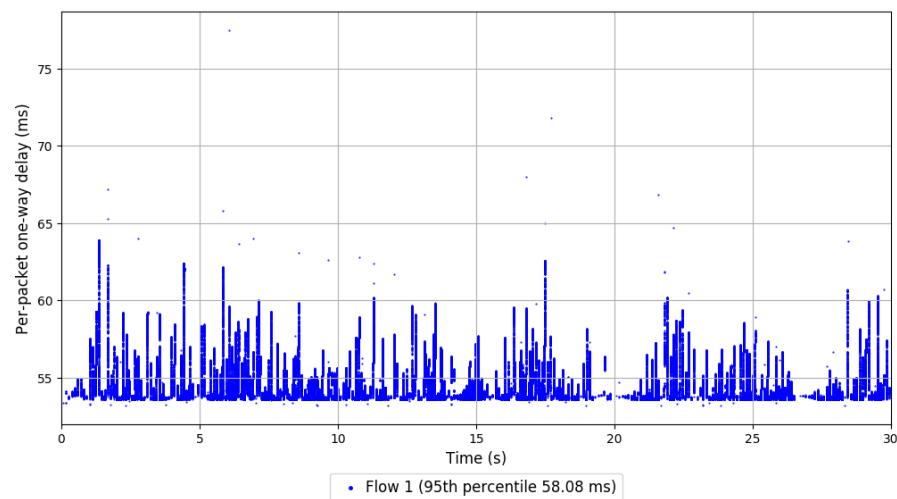
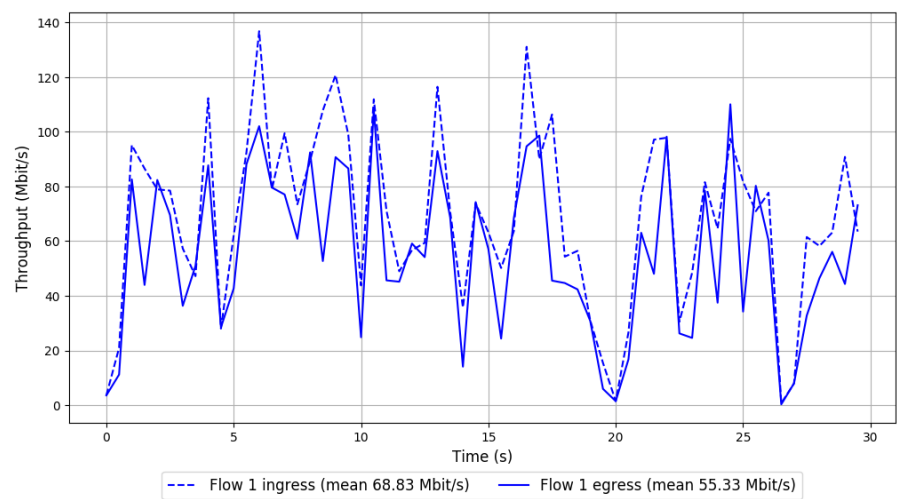
-- Flow 1:

Average throughput: 55.33 Mbit/s

95th percentile per-packet one-way delay: 58.076 ms

Loss rate: 19.61%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-08-17 01:50:33

End at: 2017-08-17 01:51:03

Below is generated by plot.py at 2017-08-17 03:54:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.84 Mbit/s

95th percentile per-packet one-way delay: 60.627 ms

Loss rate: 17.03%

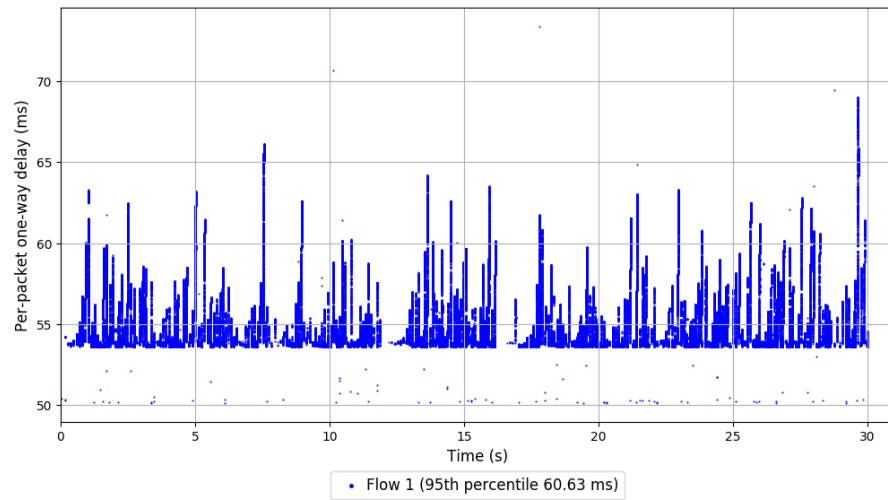
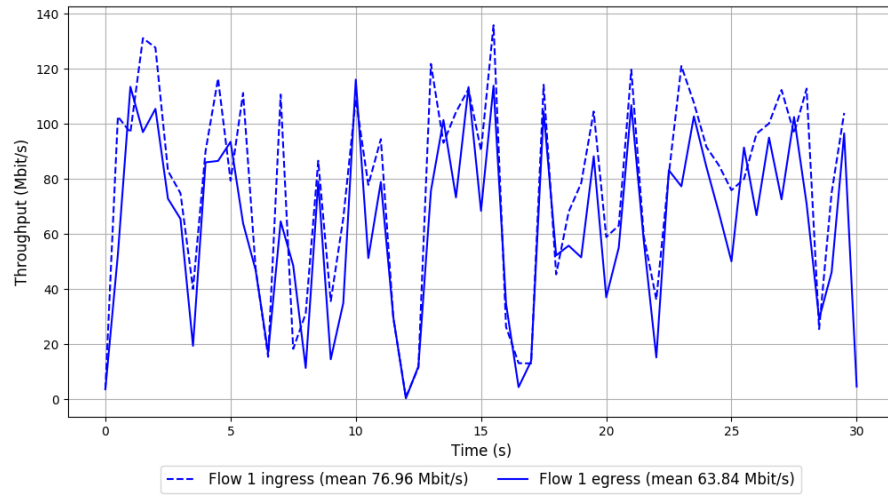
-- Flow 1:

Average throughput: 63.84 Mbit/s

95th percentile per-packet one-way delay: 60.627 ms

Loss rate: 17.03%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-08-17 02:00:48

End at: 2017-08-17 02:01:19

Below is generated by plot.py at 2017-08-17 03:54:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.13 Mbit/s

95th percentile per-packet one-way delay: 59.107 ms

Loss rate: 13.57%

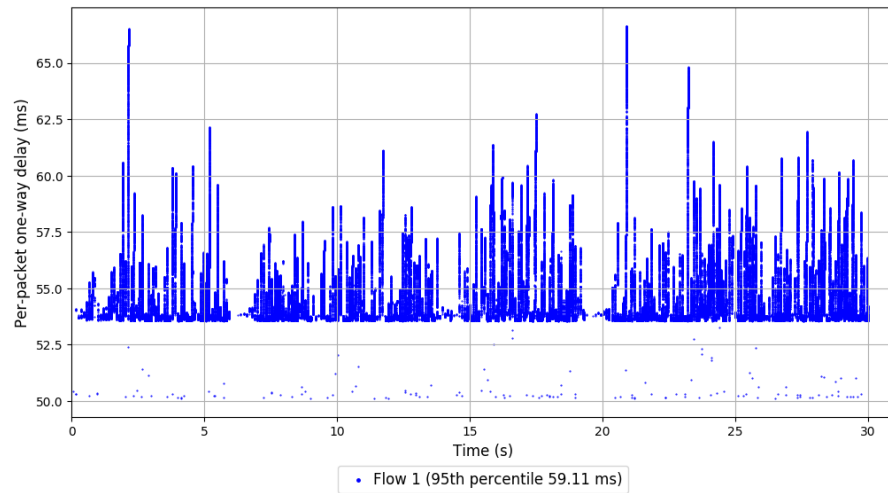
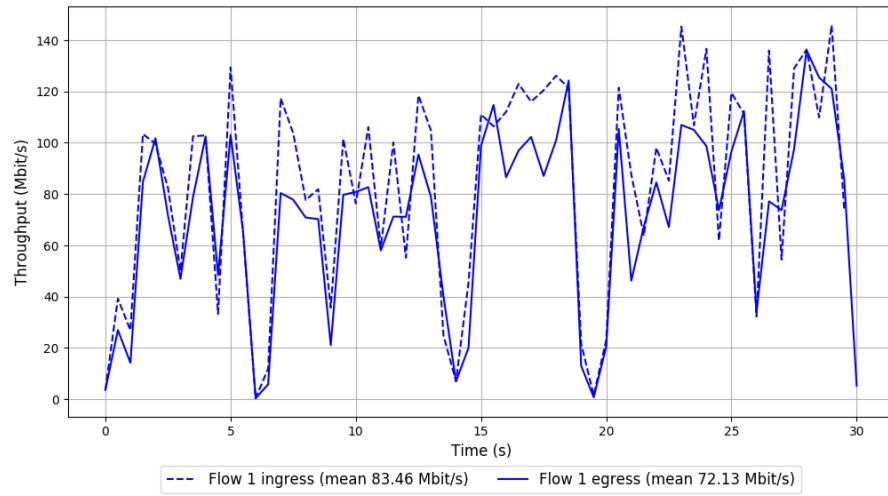
-- Flow 1:

Average throughput: 72.13 Mbit/s

95th percentile per-packet one-way delay: 59.107 ms

Loss rate: 13.57%

Run 5: Report of TCP BBR — Data Link

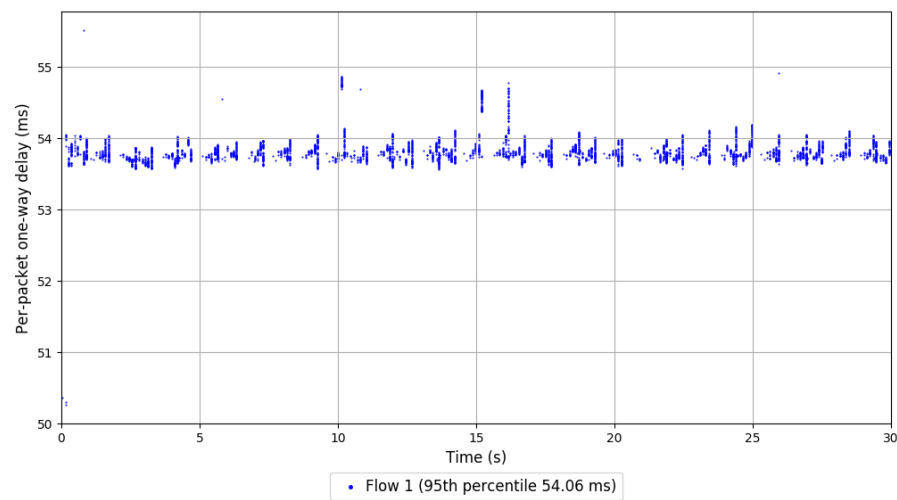
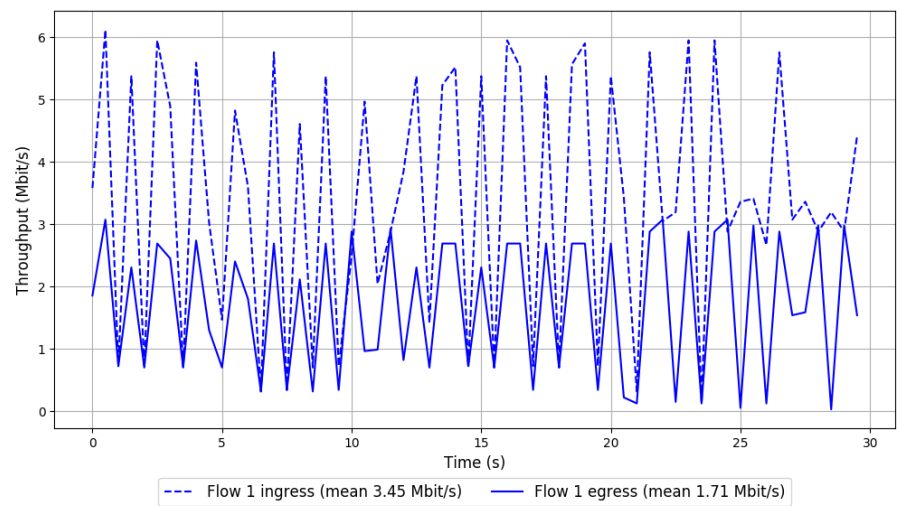


```
Run 6: Statistics of TCP BBR

Start at: 2017-08-17 02:11:00
End at: 2017-08-17 02:11:30

# Below is generated by plot.py at 2017-08-17 03:54:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.71 Mbit/s
95th percentile per-packet one-way delay: 54.060 ms
Loss rate: 50.38%
-- Flow 1:
Average throughput: 1.71 Mbit/s
95th percentile per-packet one-way delay: 54.060 ms
Loss rate: 50.38%
```

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-08-17 02:21:11

End at: 2017-08-17 02:21:41

Below is generated by plot.py at 2017-08-17 03:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 54.150 ms

Loss rate: 41.03%

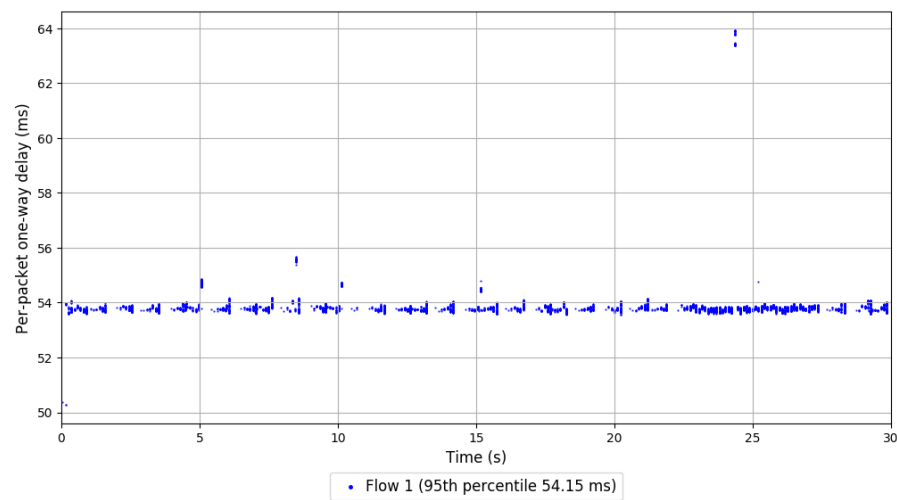
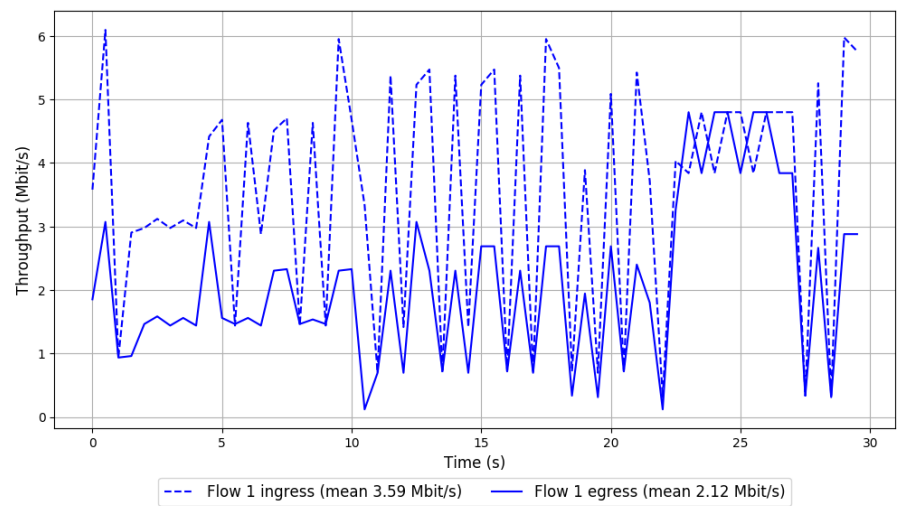
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 54.150 ms

Loss rate: 41.03%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-08-17 02:31:38

End at: 2017-08-17 02:32:08

Below is generated by plot.py at 2017-08-17 03:54:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.28 Mbit/s

95th percentile per-packet one-way delay: 59.362 ms

Loss rate: 14.19%

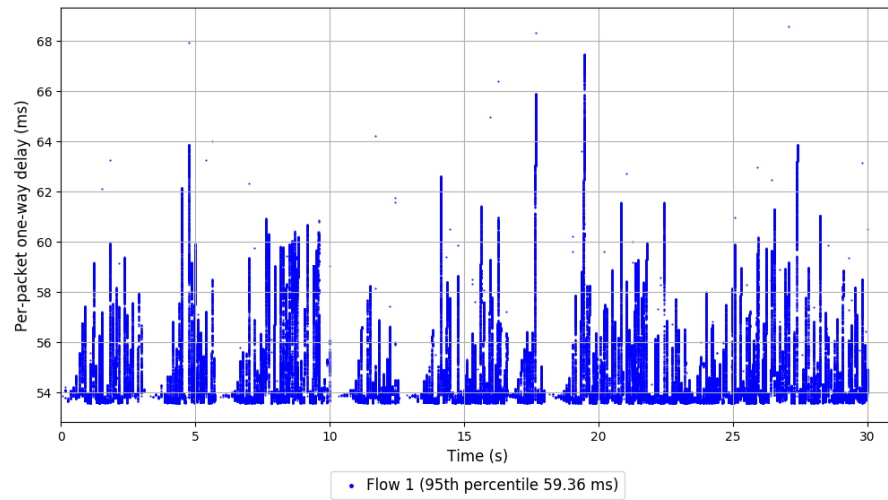
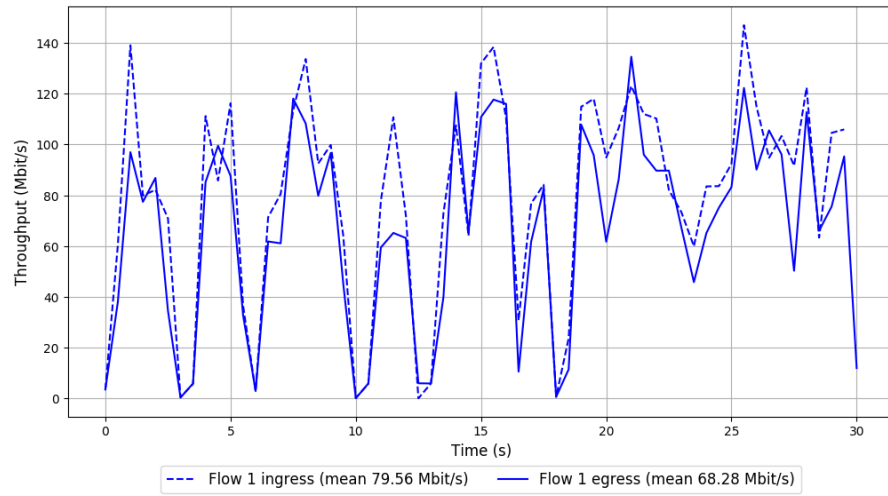
-- Flow 1:

Average throughput: 68.28 Mbit/s

95th percentile per-packet one-way delay: 59.362 ms

Loss rate: 14.19%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-08-17 02:41:40

End at: 2017-08-17 02:42:10

Below is generated by plot.py at 2017-08-17 03:54:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.43 Mbit/s

95th percentile per-packet one-way delay: 60.469 ms

Loss rate: 3.45%

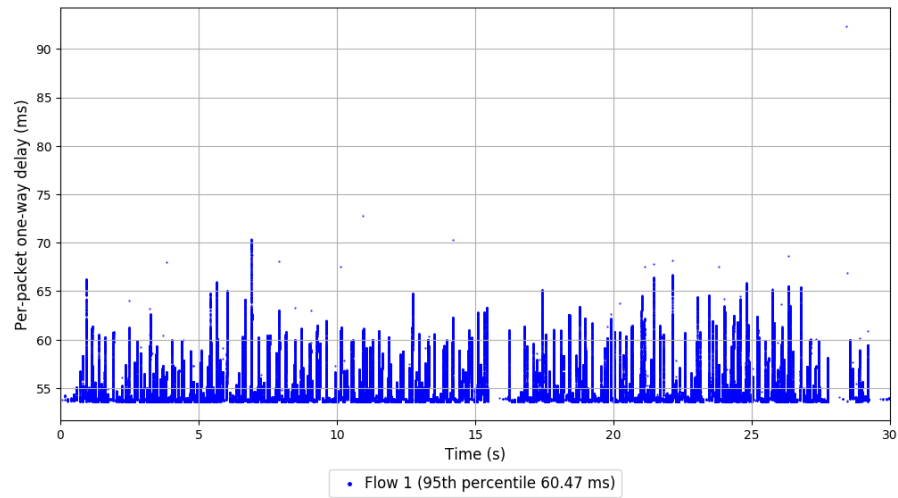
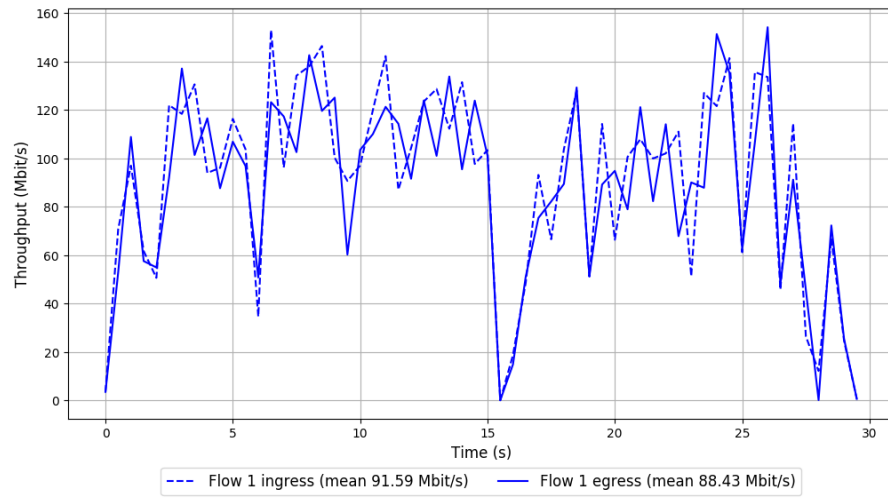
-- Flow 1:

Average throughput: 88.43 Mbit/s

95th percentile per-packet one-way delay: 60.469 ms

Loss rate: 3.45%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-08-17 02:52:05

End at: 2017-08-17 02:52:35

Below is generated by plot.py at 2017-08-17 03:54:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.39 Mbit/s

95th percentile per-packet one-way delay: 58.063 ms

Loss rate: 17.04%

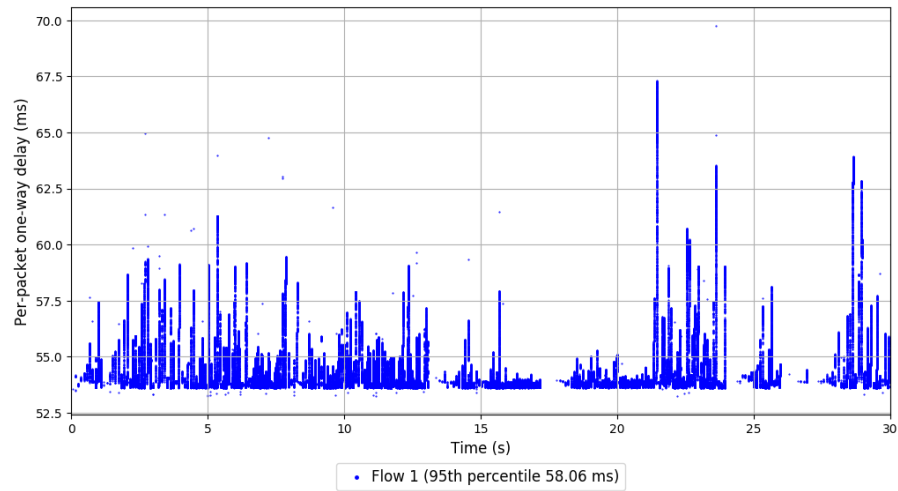
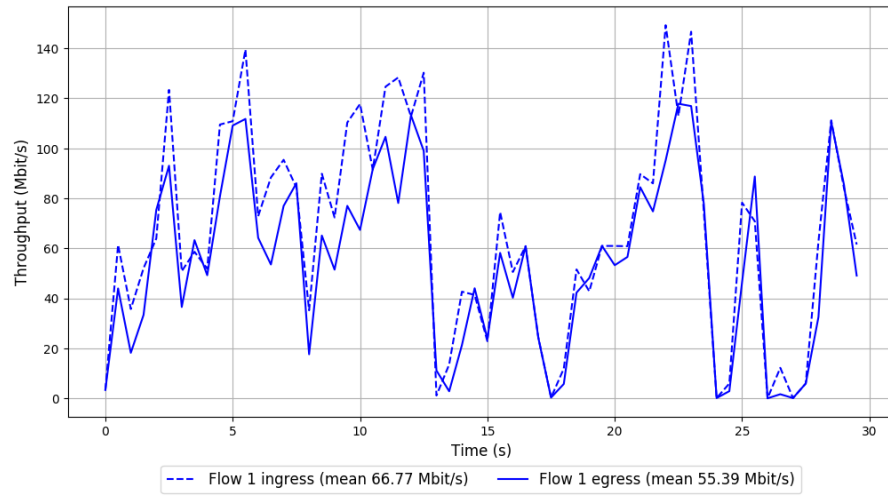
-- Flow 1:

Average throughput: 55.39 Mbit/s

95th percentile per-packet one-way delay: 58.063 ms

Loss rate: 17.04%

Run 10: Report of TCP BBR — Data Link

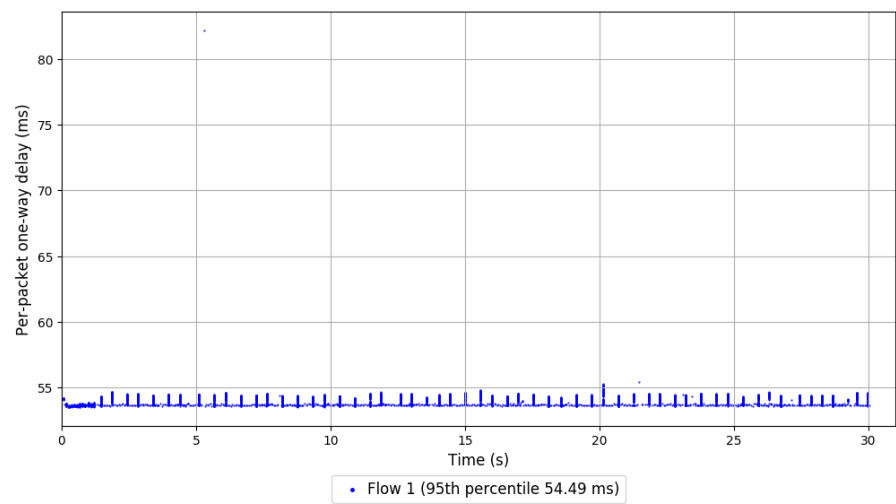
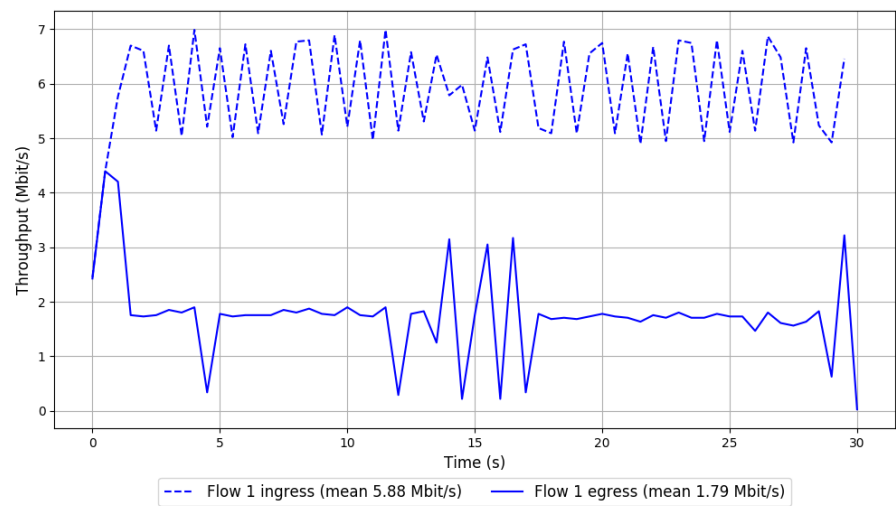


```
Run 1: Statistics of CalibratedKoho

Start at: 2017-08-17 01:23:24
End at: 2017-08-17 01:23:54

# Below is generated by plot.py at 2017-08-17 03:54:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 54.489 ms
Loss rate: 69.55%
-- Flow 1:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 54.489 ms
Loss rate: 69.55%
```

Run 1: Report of CalibratedKoho — Data Link

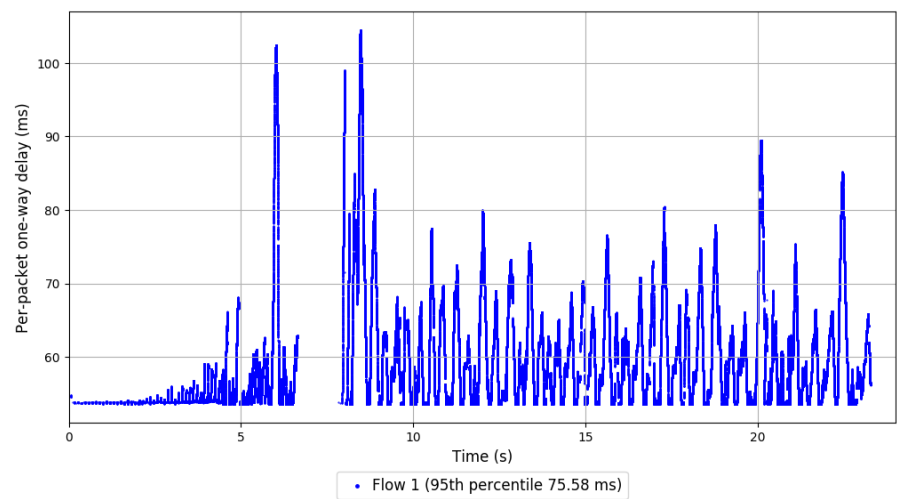
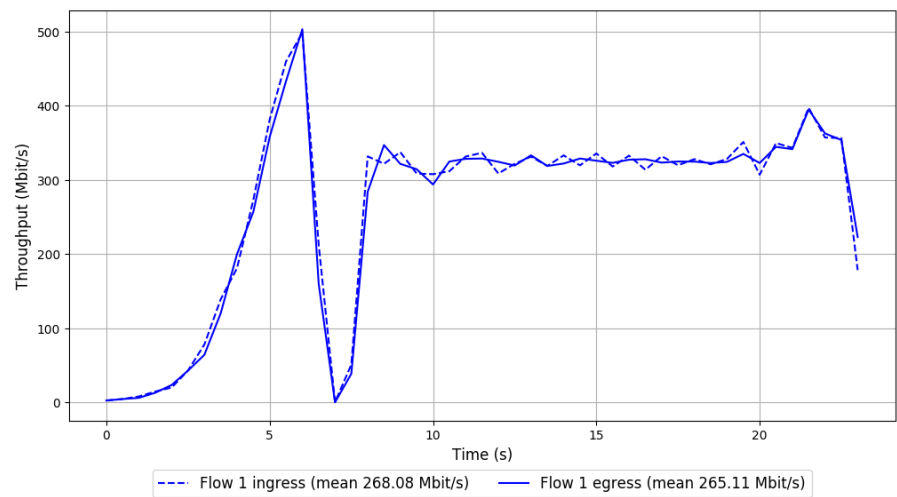


Run 2: Statistics of CalibratedKoho

Start at: 2017-08-17 01:33:08

End at: 2017-08-17 01:33:38

Run 2: Report of CalibratedKoho — Data Link

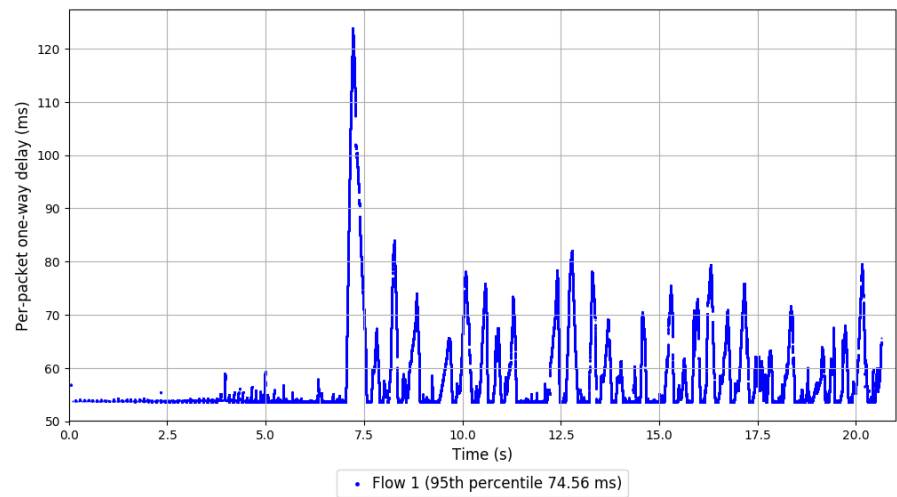
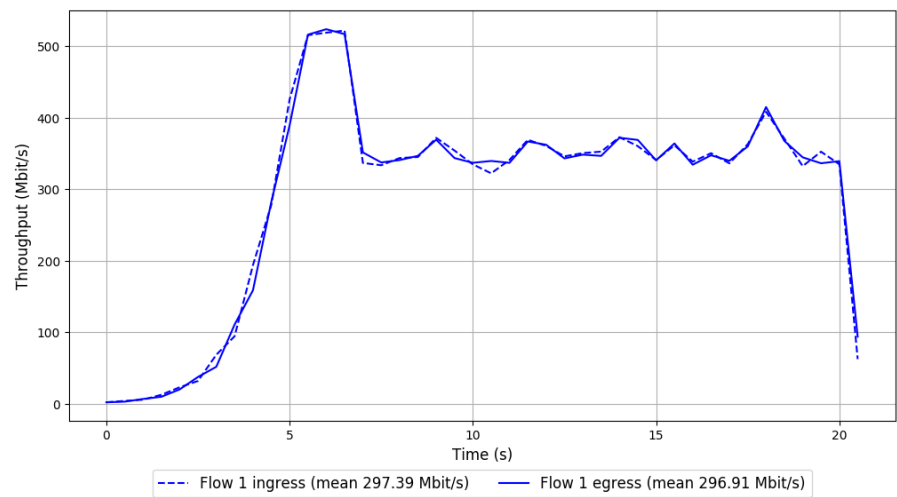


Run 3: Statistics of CalibratedKoho

Start at: 2017-08-17 01:43:38

End at: 2017-08-17 01:44:08

Run 3: Report of CalibratedKoho — Data Link



Run 4: Statistics of CalibratedKoho

Start at: 2017-08-17 01:53:45

End at: 2017-08-17 01:54:15

Below is generated by plot.py at 2017-08-17 03:56:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 311.36 Mbit/s

95th percentile per-packet one-way delay: 67.749 ms

Loss rate: 0.26%

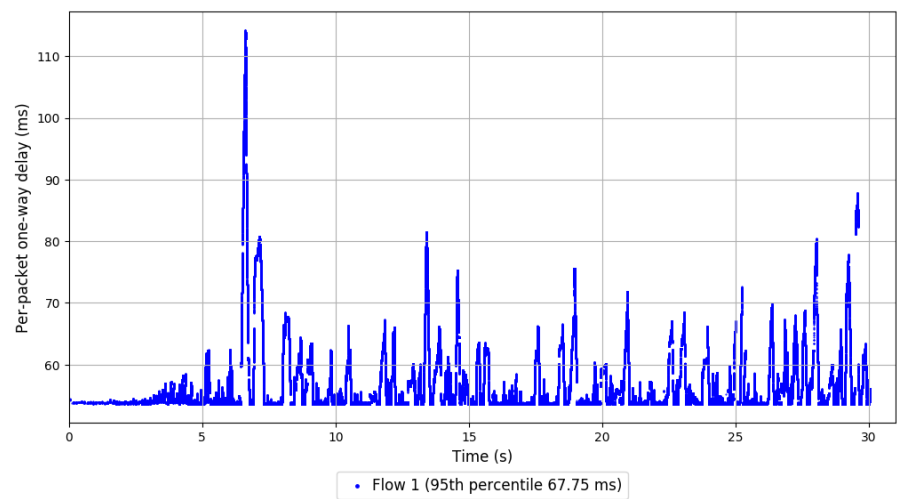
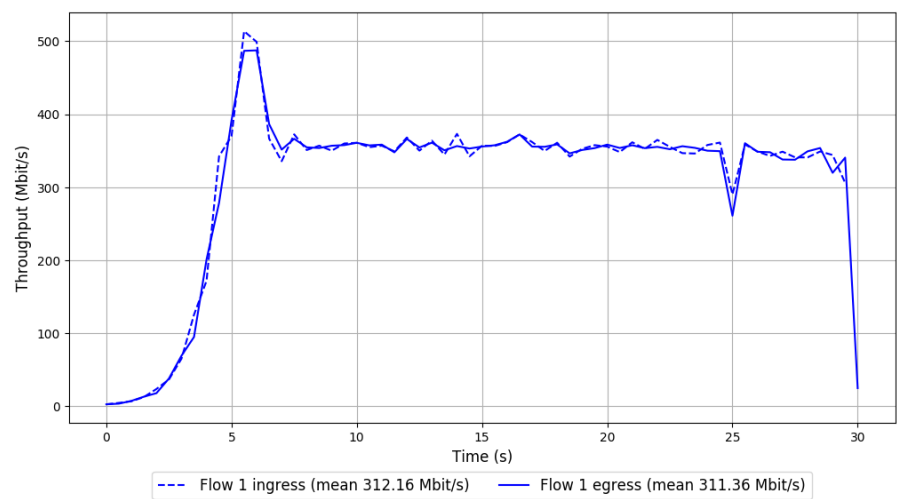
-- Flow 1:

Average throughput: 311.36 Mbit/s

95th percentile per-packet one-way delay: 67.749 ms

Loss rate: 0.26%

Run 4: Report of CalibratedKoho — Data Link

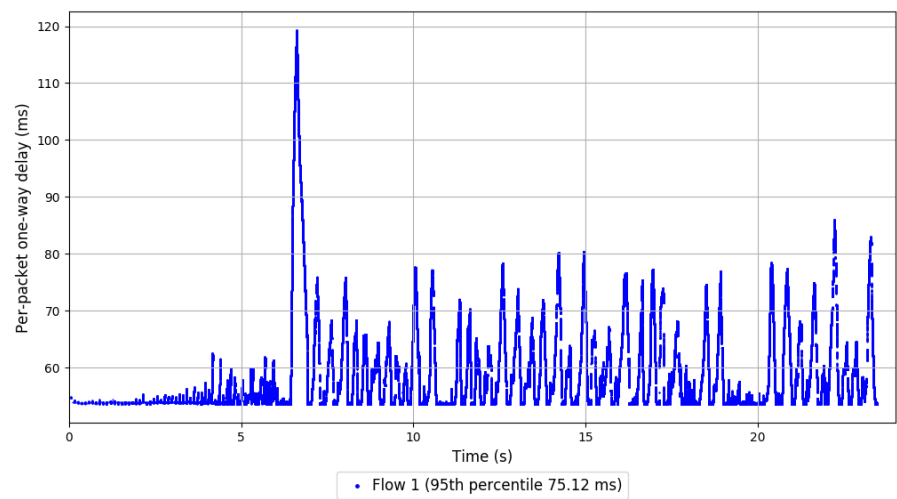
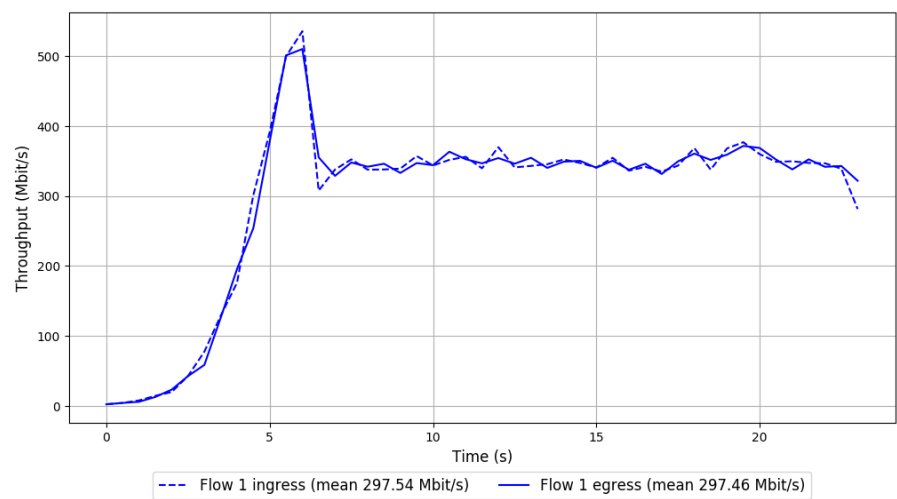


Run 5: Statistics of CalibratedKoho

Start at: 2017-08-17 02:04:10

End at: 2017-08-17 02:04:40

Run 5: Report of CalibratedKoho — Data Link



Run 6: Statistics of CalibratedKoho

Start at: 2017-08-17 02:14:30

End at: 2017-08-17 02:15:00

Below is generated by plot.py at 2017-08-17 03:56:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 54.389 ms

Loss rate: 69.16%

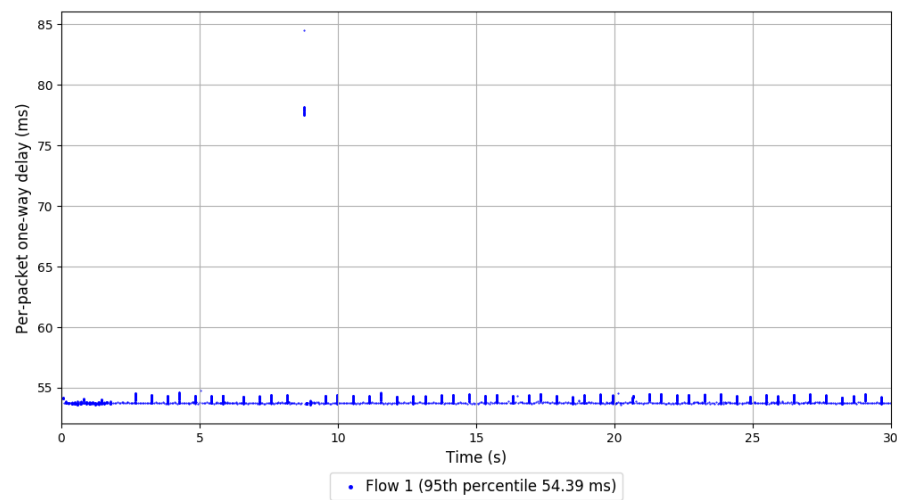
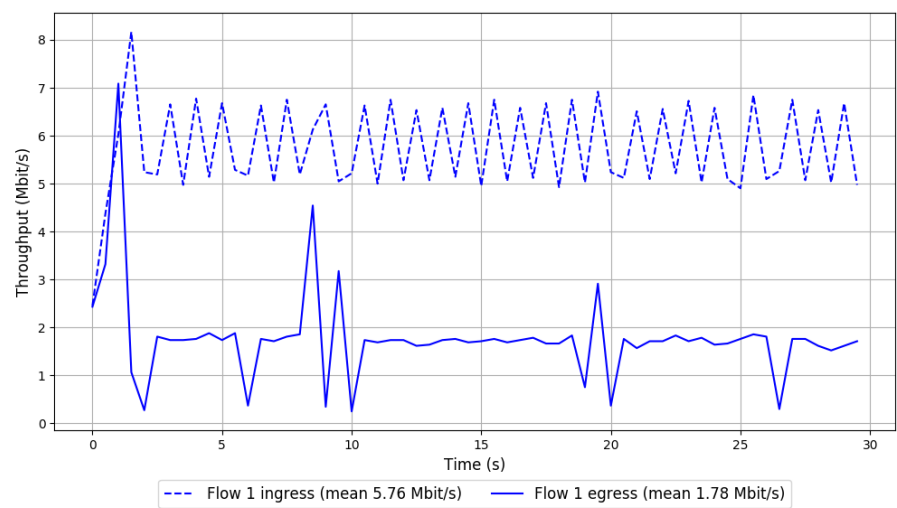
-- Flow 1:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 54.389 ms

Loss rate: 69.16%

Run 6: Report of CalibratedKoho — Data Link

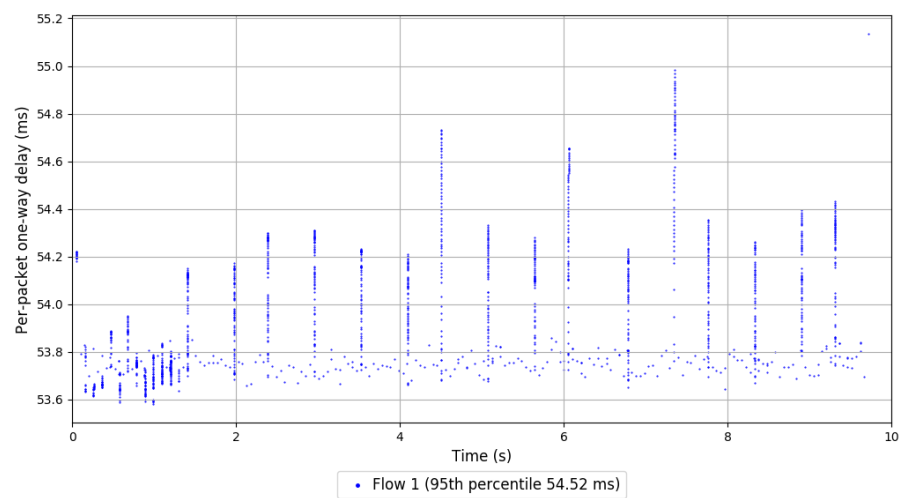
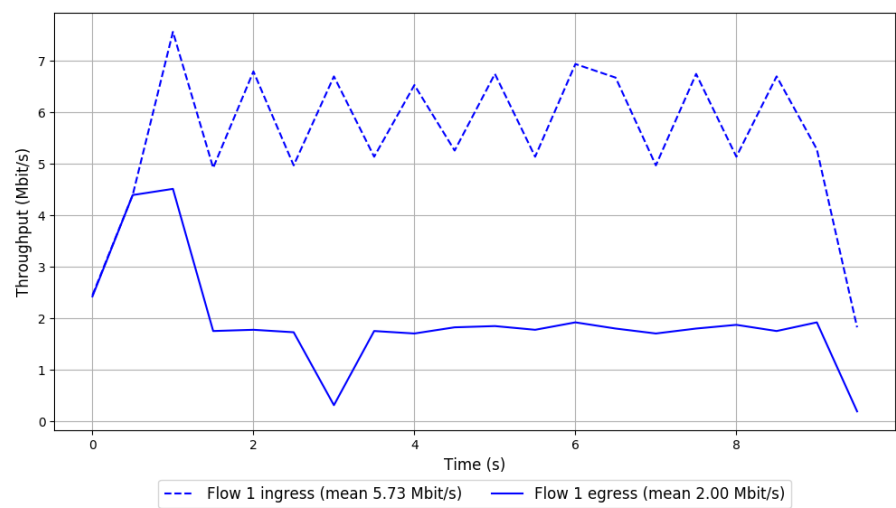


Run 7: Statistics of CalibratedKoho

Start at: 2017-08-17 02:24:35

End at: 2017-08-17 02:25:05

Run 7: Report of CalibratedKoho — Data Link

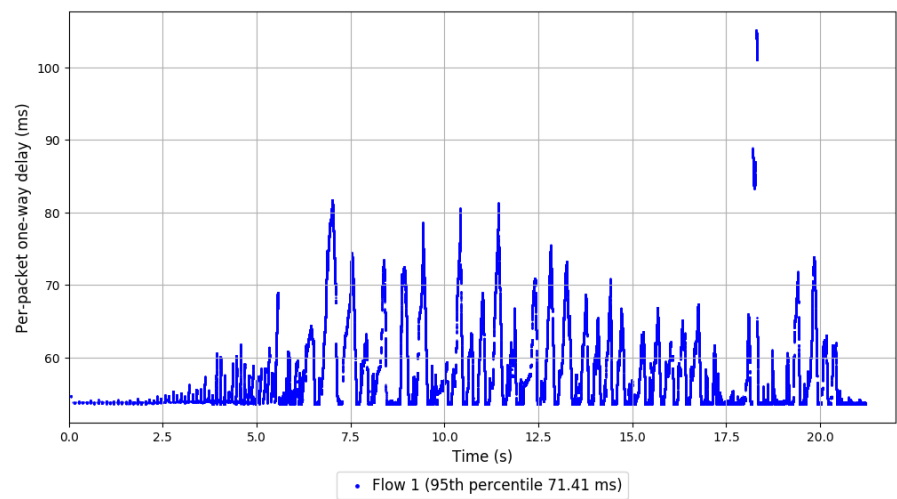
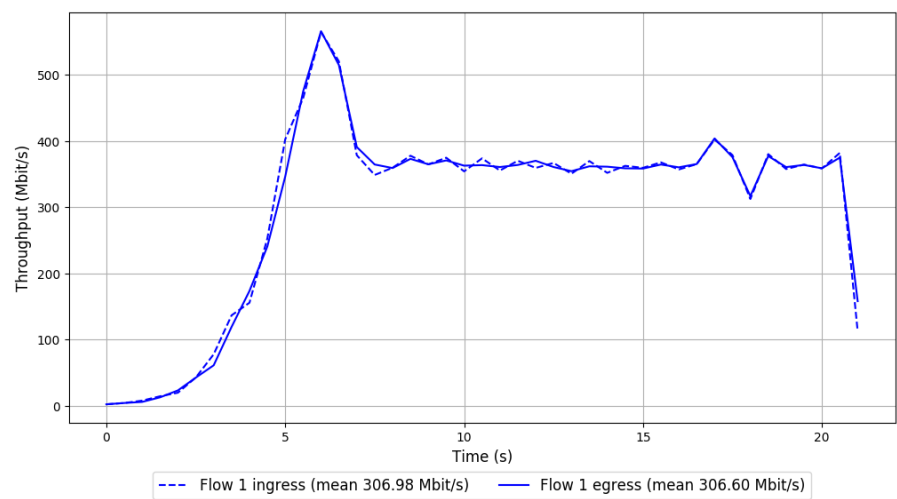


Run 8: Statistics of CalibratedKoho

Start at: 2017-08-17 02:35:01

End at: 2017-08-17 02:35:31

Run 8: Report of CalibratedKoho — Data Link



Run 9: Statistics of CalibratedKoho

Start at: 2017-08-17 02:45:06

End at: 2017-08-17 02:45:36

Below is generated by plot.py at 2017-08-17 03:57:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 314.57 Mbit/s

95th percentile per-packet one-way delay: 76.008 ms

Loss rate: 0.16%

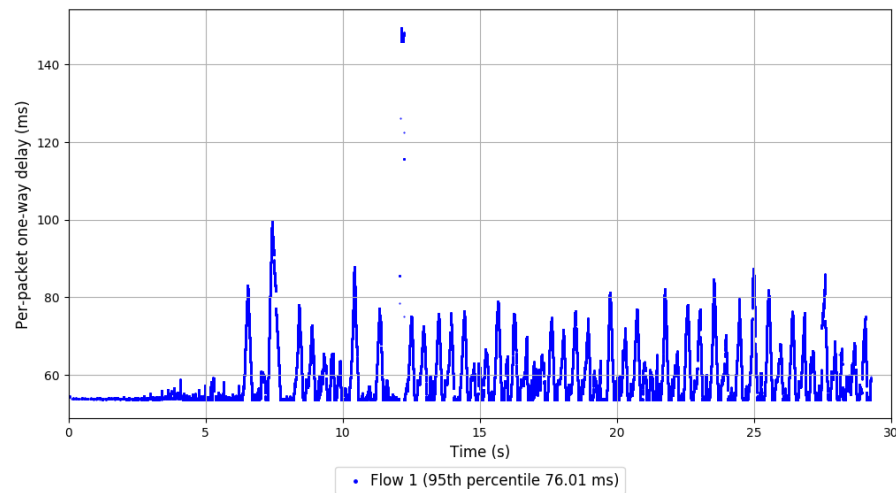
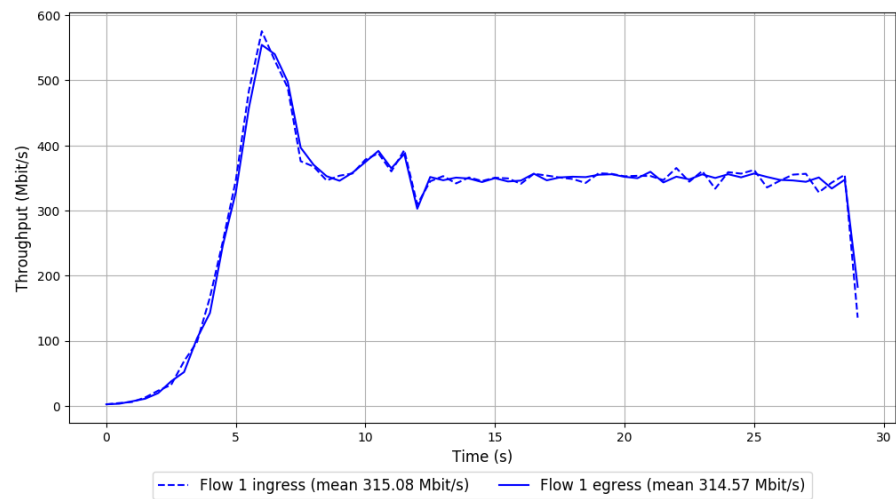
-- Flow 1:

Average throughput: 314.57 Mbit/s

95th percentile per-packet one-way delay: 76.008 ms

Loss rate: 0.16%

Run 9: Report of CalibratedKoho — Data Link



Run 10: Statistics of CalibratedKoho

Start at: 2017-08-17 02:55:17

End at: 2017-08-17 02:55:47

Below is generated by plot.py at 2017-08-17 03:57:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 285.15 Mbit/s

95th percentile per-packet one-way delay: 77.917 ms

Loss rate: 0.30%

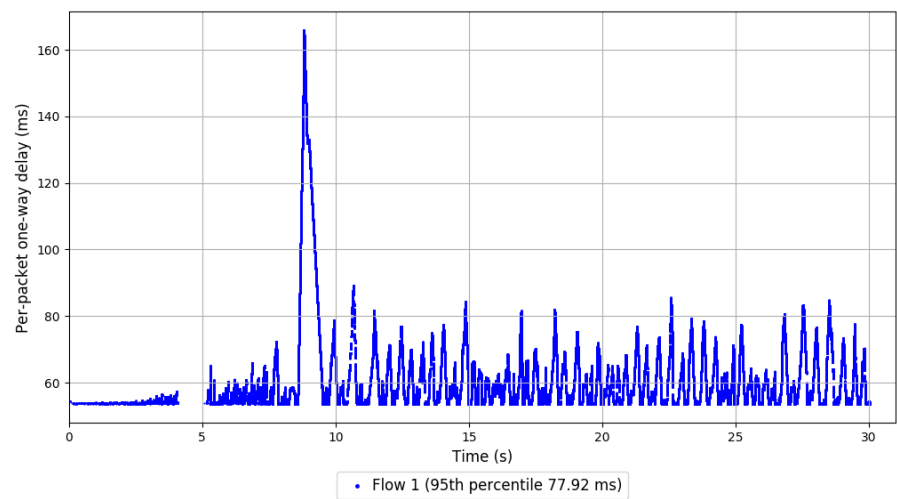
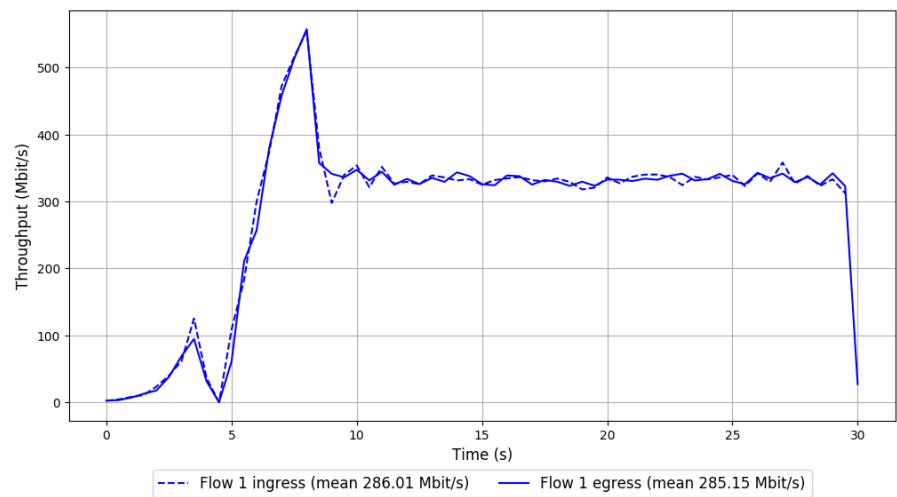
-- Flow 1:

Average throughput: 285.15 Mbit/s

95th percentile per-packet one-way delay: 77.917 ms

Loss rate: 0.30%

Run 10: Report of CalibratedKoho — Data Link



Run 1: Statistics of Copa

Start at: 2017-08-17 01:21:28

End at: 2017-08-17 01:21:58

Below is generated by plot.py at 2017-08-17 03:57:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.95 Mbit/s

95th percentile per-packet one-way delay: 53.505 ms

Loss rate: 86.92%

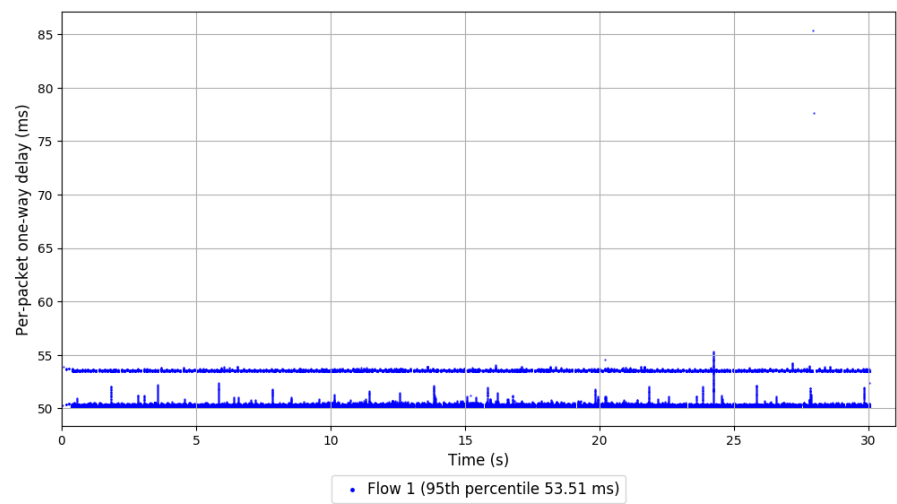
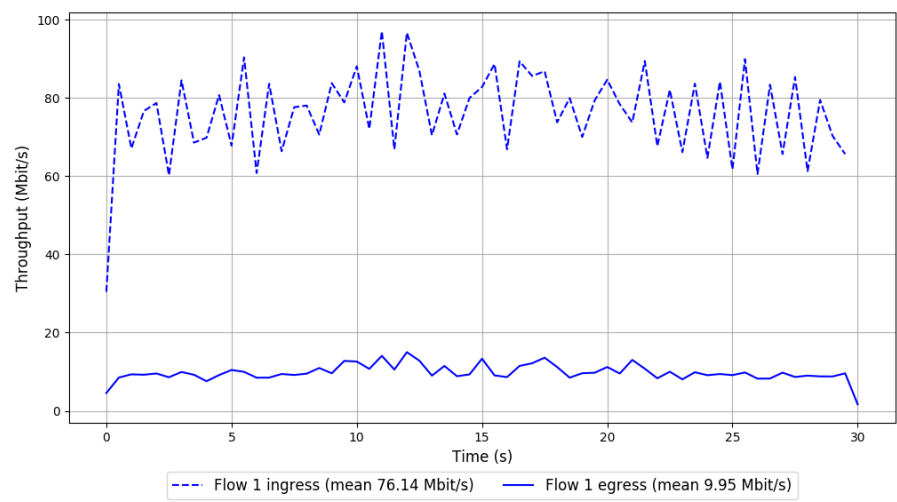
-- Flow 1:

Average throughput: 9.95 Mbit/s

95th percentile per-packet one-way delay: 53.505 ms

Loss rate: 86.92%

Run 1: Report of Copa — Data Link

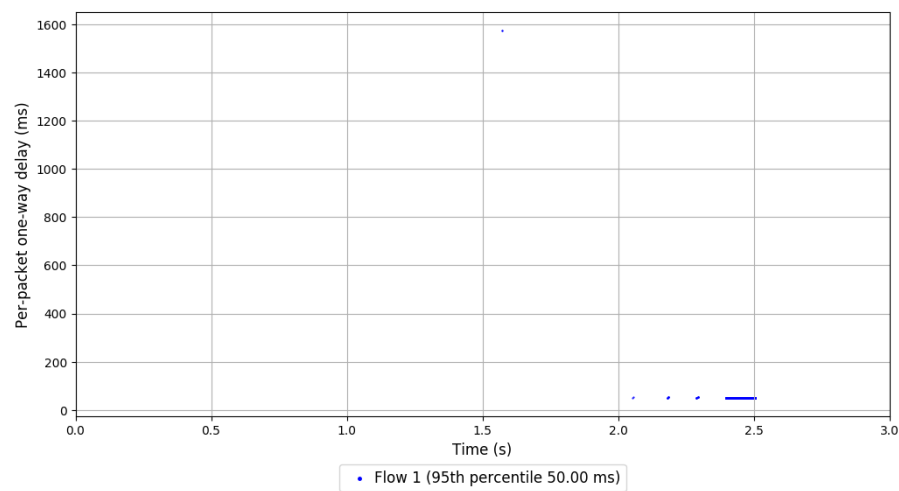
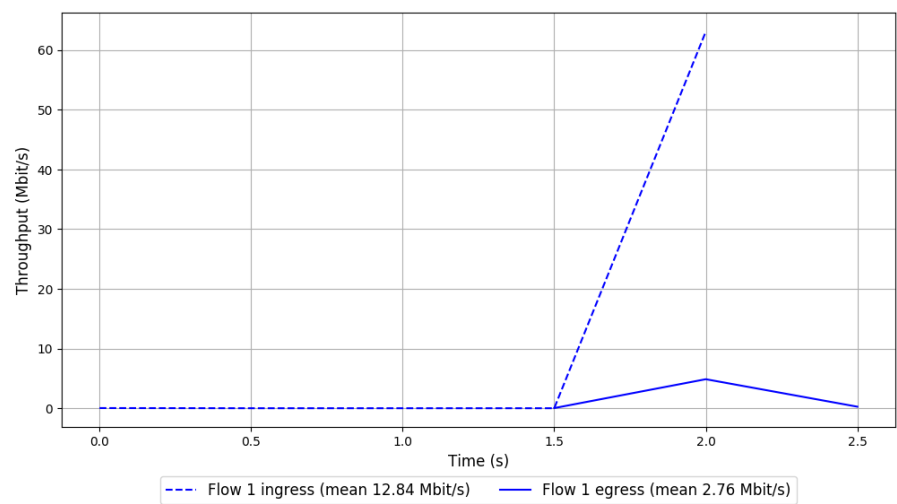


Run 2: Statistics of Copa

Start at: 2017-08-17 01:31:16

End at: 2017-08-17 01:31:46

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-08-17 01:41:33

End at: 2017-08-17 01:42:03

Below is generated by plot.py at 2017-08-17 03:58:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 132.03 Mbit/s

95th percentile per-packet one-way delay: 53.705 ms

Loss rate: 0.00%

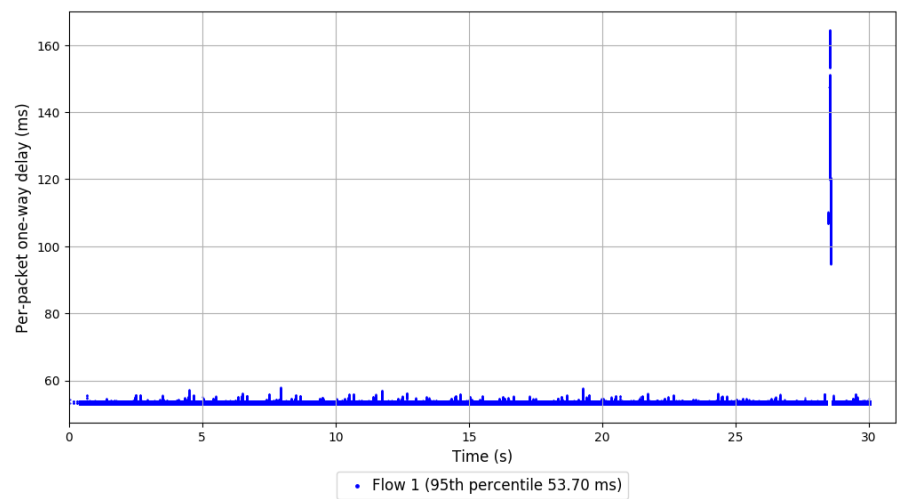
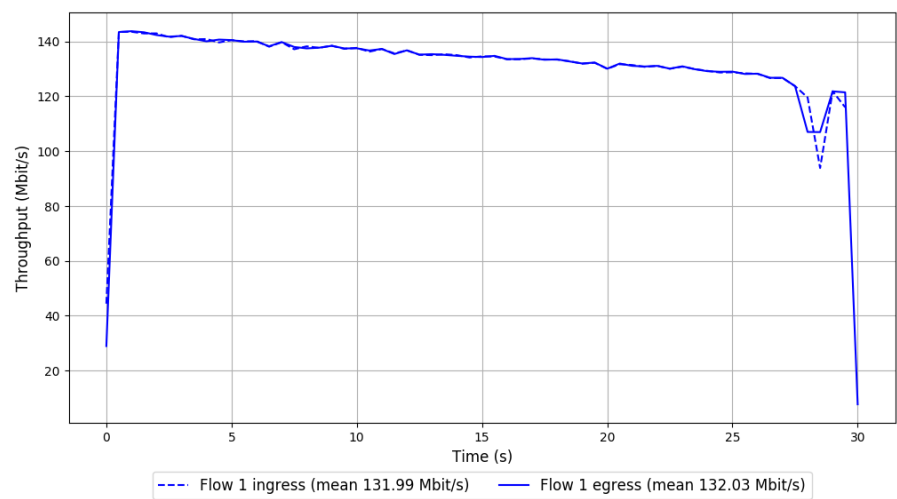
-- Flow 1:

Average throughput: 132.03 Mbit/s

95th percentile per-packet one-way delay: 53.705 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link

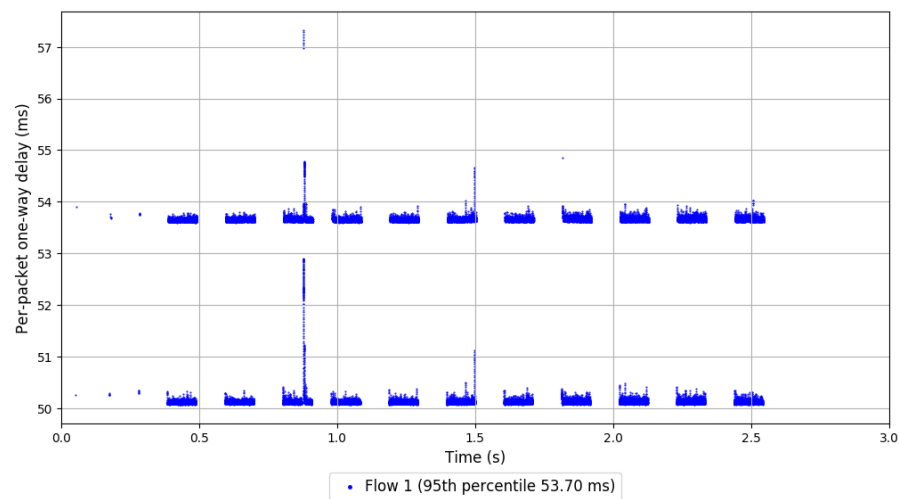
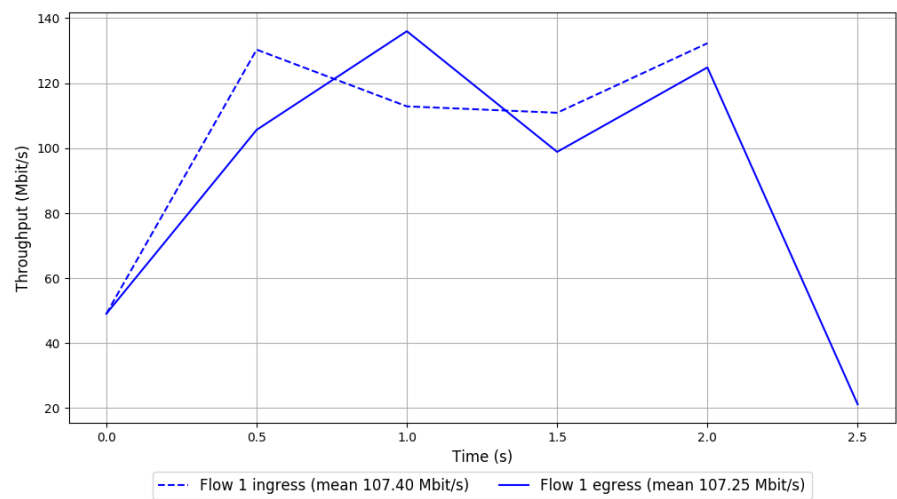


Run 4: Statistics of Copa

Start at: 2017-08-17 01:51:53

End at: 2017-08-17 01:52:23

Run 4: Report of Copa — Data Link

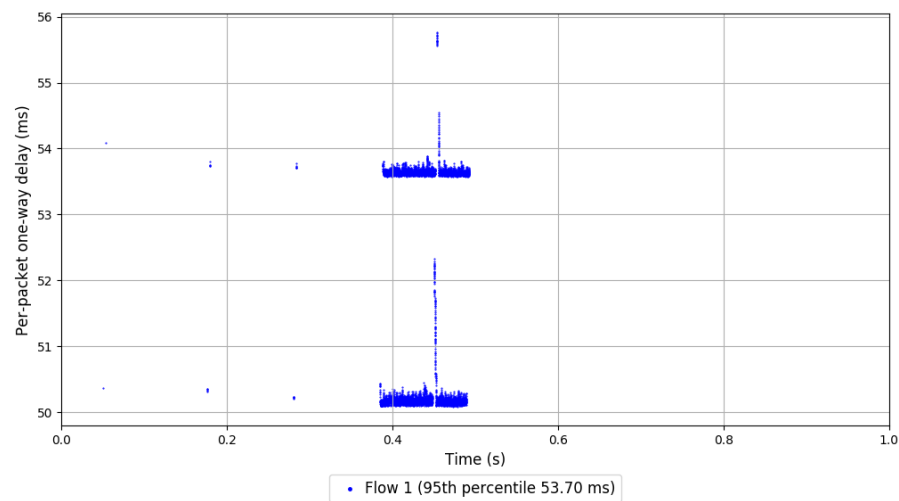
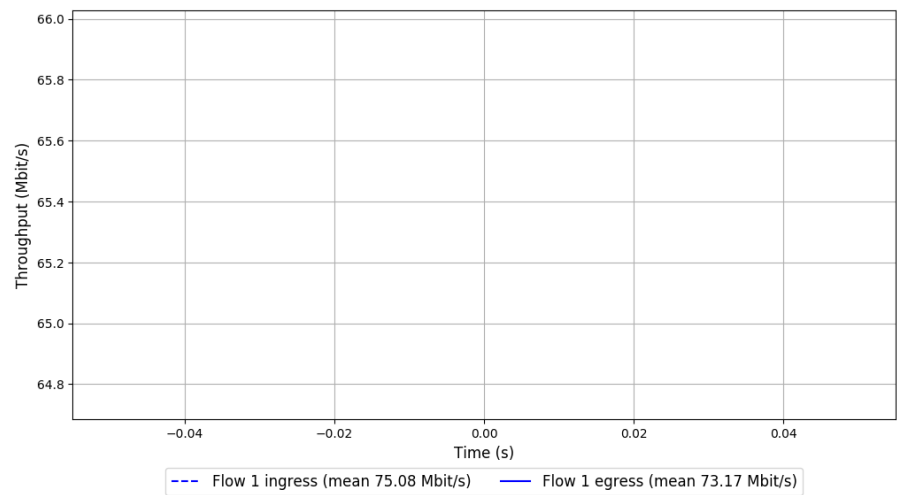


Run 5: Statistics of Copa

Start at: 2017-08-17 02:02:18

End at: 2017-08-17 02:02:48

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-08-17 02:12:25

End at: 2017-08-17 02:12:55

Below is generated by plot.py at 2017-08-17 03:58:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 122.68 Mbit/s

95th percentile per-packet one-way delay: 53.784 ms

Loss rate: 0.00%

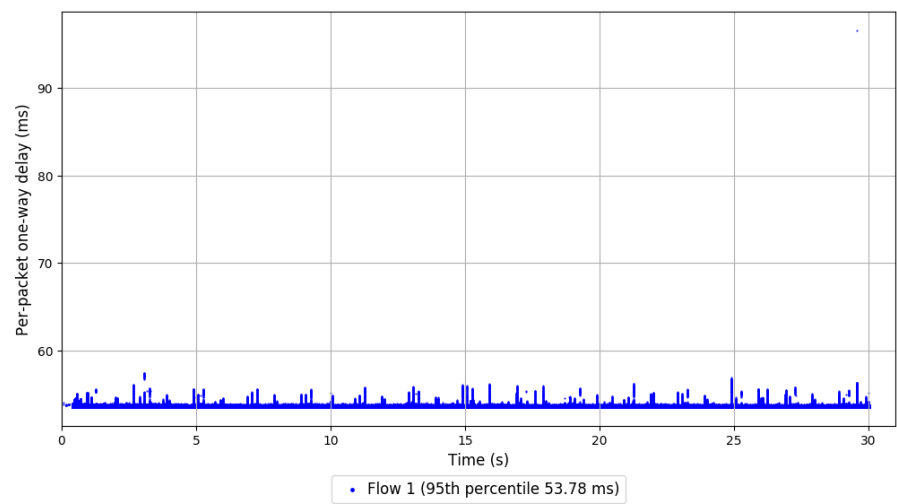
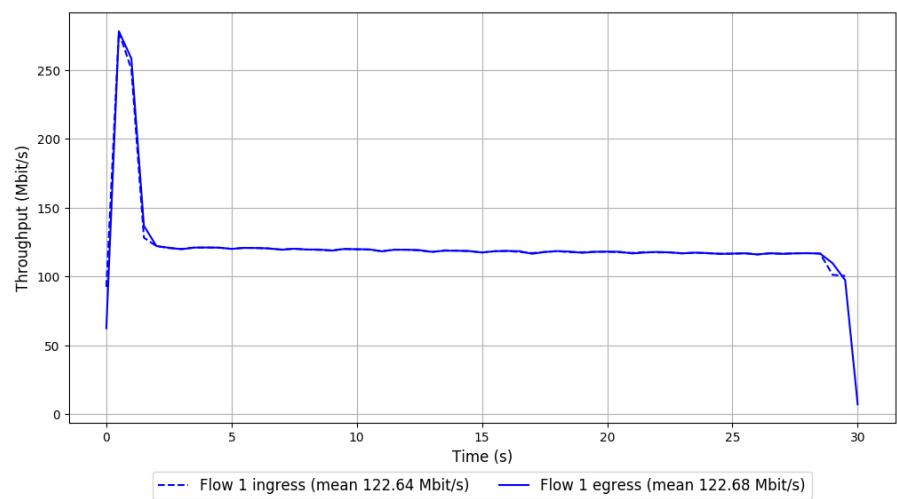
-- Flow 1:

Average throughput: 122.68 Mbit/s

95th percentile per-packet one-way delay: 53.784 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-08-17 02:22:33

End at: 2017-08-17 02:23:03

Below is generated by plot.py at 2017-08-17 03:58:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.62 Mbit/s

95th percentile per-packet one-way delay: 53.681 ms

Loss rate: 0.34%

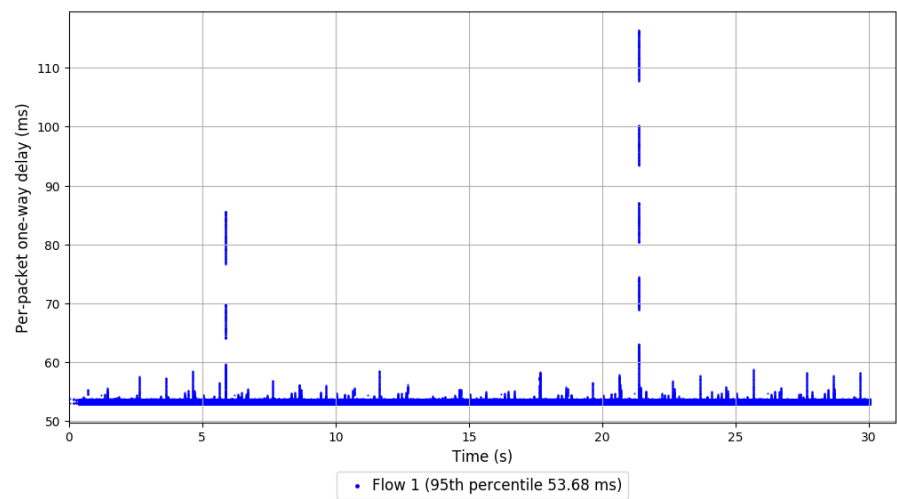
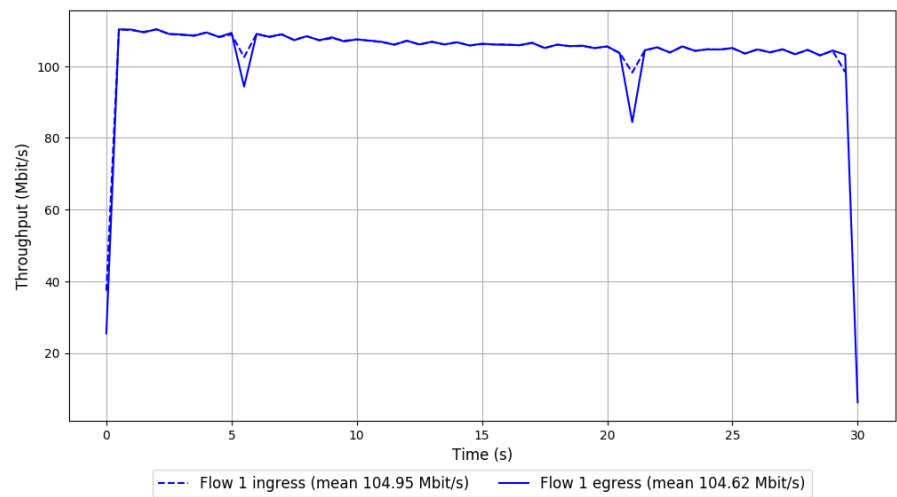
-- Flow 1:

Average throughput: 104.62 Mbit/s

95th percentile per-packet one-way delay: 53.681 ms

Loss rate: 0.34%

Run 7: Report of Copa — Data Link

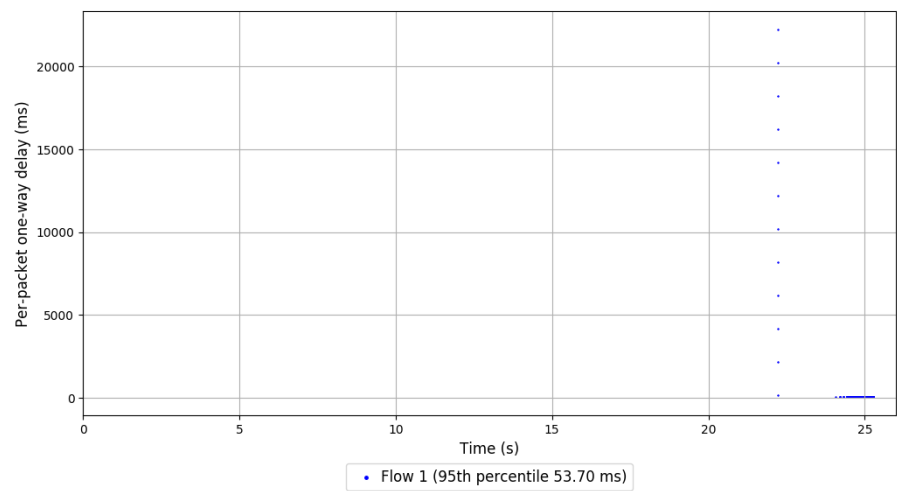
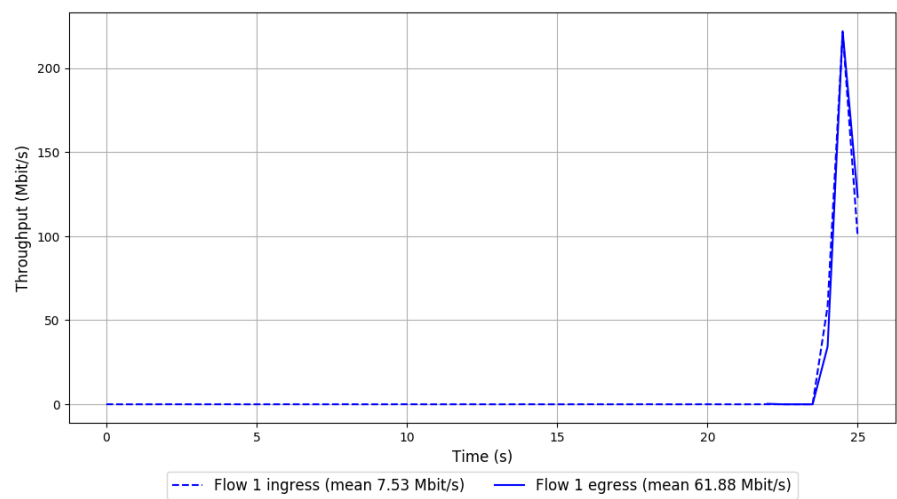


Run 8: Statistics of Copa

Start at: 2017-08-17 02:33:08

End at: 2017-08-17 02:33:38

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-08-17 02:43:09

End at: 2017-08-17 02:43:39

Below is generated by plot.py at 2017-08-17 03:59:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.75 Mbit/s

95th percentile per-packet one-way delay: 53.756 ms

Loss rate: 0.00%

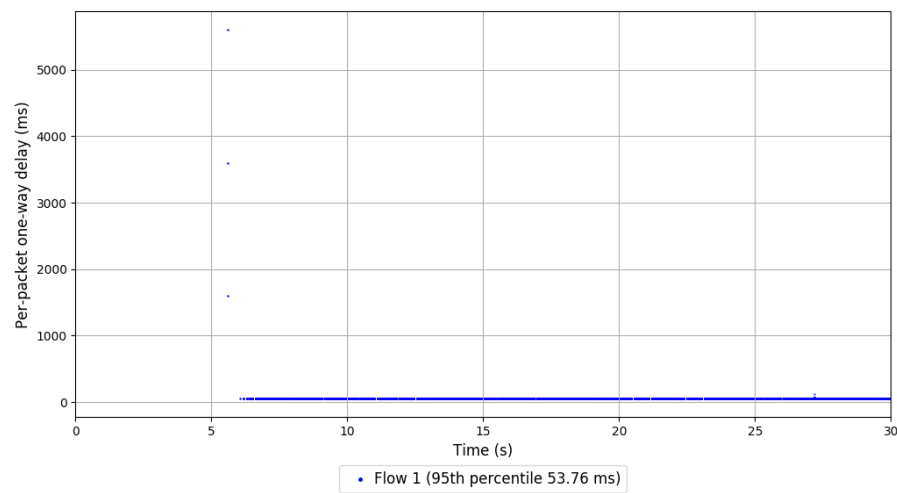
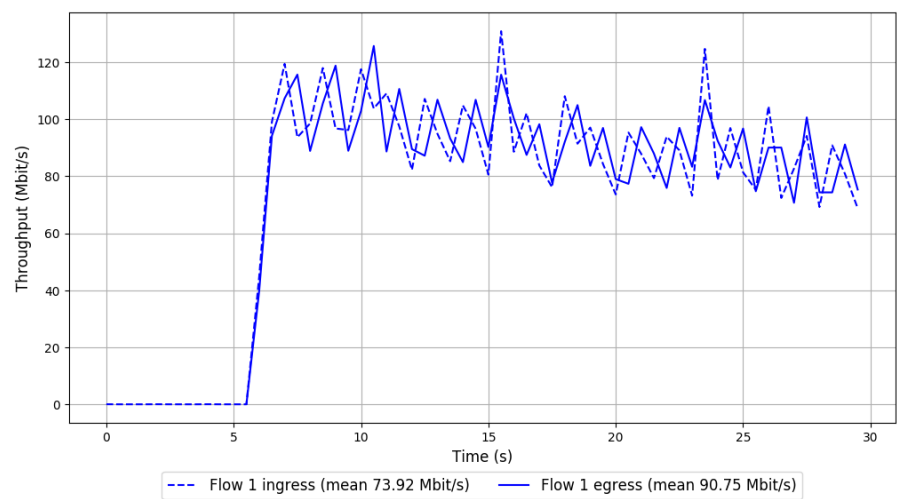
-- Flow 1:

Average throughput: 90.75 Mbit/s

95th percentile per-packet one-way delay: 53.756 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link

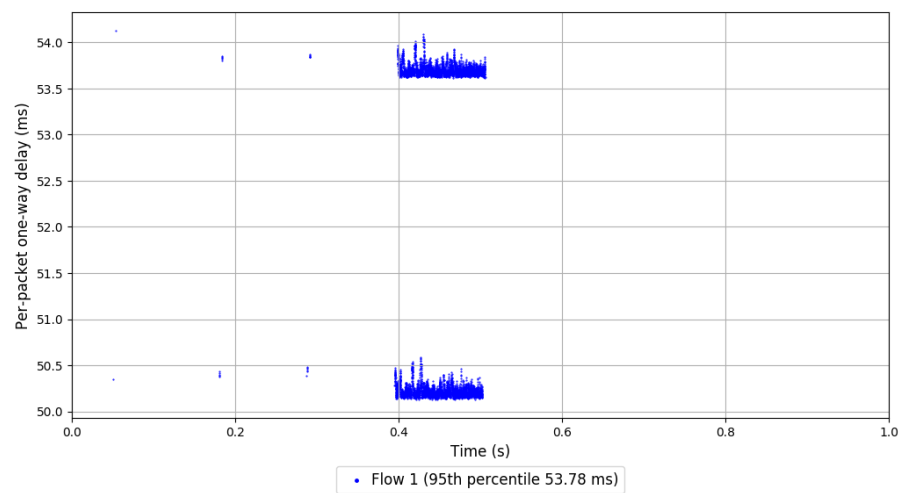
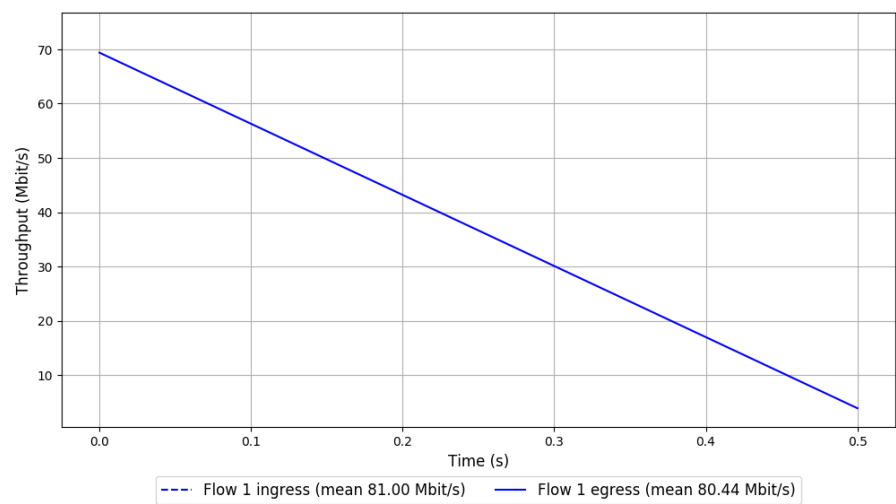


Run 10: Statistics of Copa

Start at: 2017-08-17 02:53:25

End at: 2017-08-17 02:53:55

Run 10: Report of Copa — Data Link

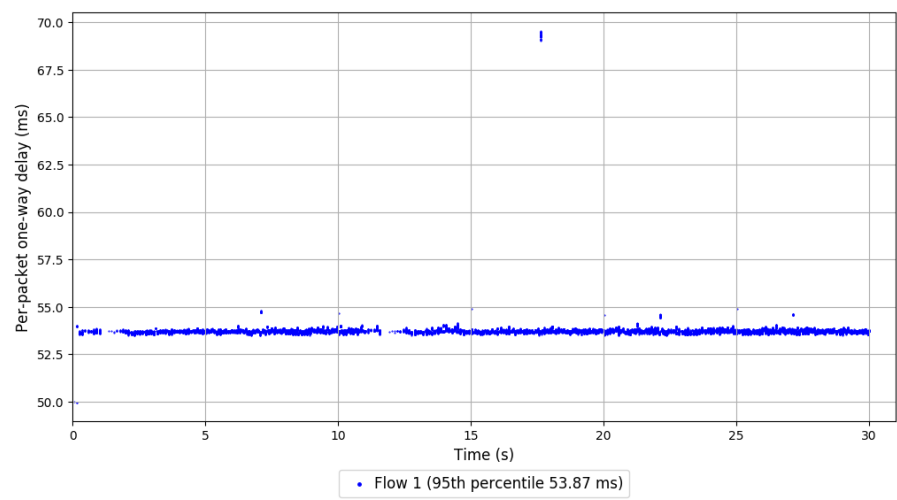
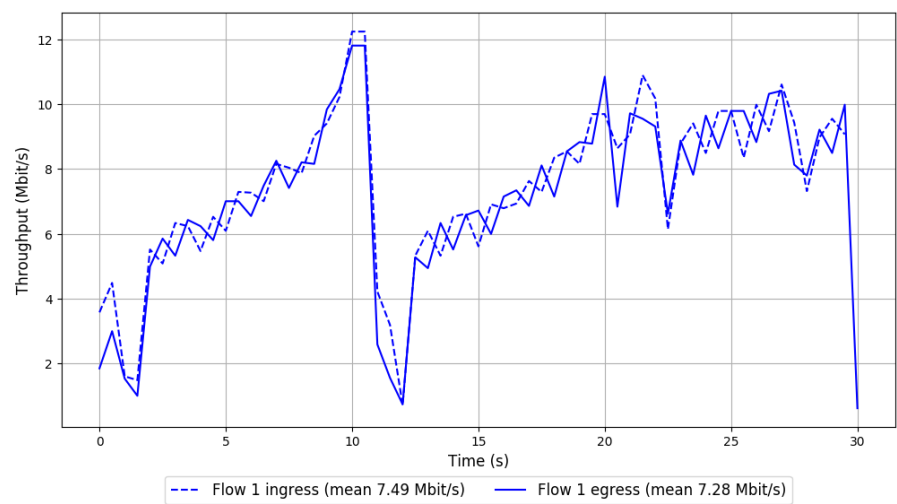


```
Run 1: Statistics of TCP Cubic

Start at: 2017-08-17 01:25:54
End at: 2017-08-17 01:26:24

# Below is generated by plot.py at 2017-08-17 03:59:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.28 Mbit/s
95th percentile per-packet one-way delay: 53.871 ms
Loss rate: 2.71%
-- Flow 1:
Average throughput: 7.28 Mbit/s
95th percentile per-packet one-way delay: 53.871 ms
Loss rate: 2.71%
```

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-08-17 01:35:54

End at: 2017-08-17 01:36:24

Below is generated by plot.py at 2017-08-17 03:59:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.26 Mbit/s

95th percentile per-packet one-way delay: 54.583 ms

Loss rate: 2.11%

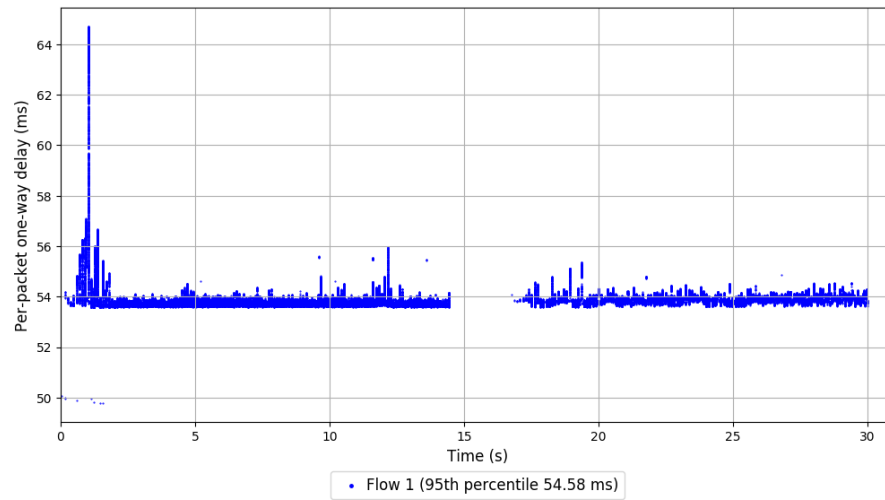
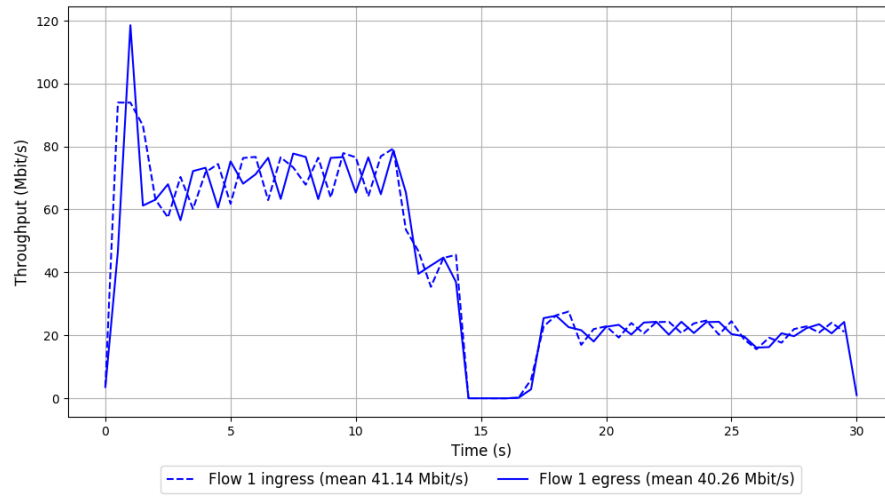
-- Flow 1:

Average throughput: 40.26 Mbit/s

95th percentile per-packet one-way delay: 54.583 ms

Loss rate: 2.11%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-08-17 01:46:25

End at: 2017-08-17 01:46:55

Below is generated by plot.py at 2017-08-17 03:59:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.69 Mbit/s

95th percentile per-packet one-way delay: 54.110 ms

Loss rate: 0.85%

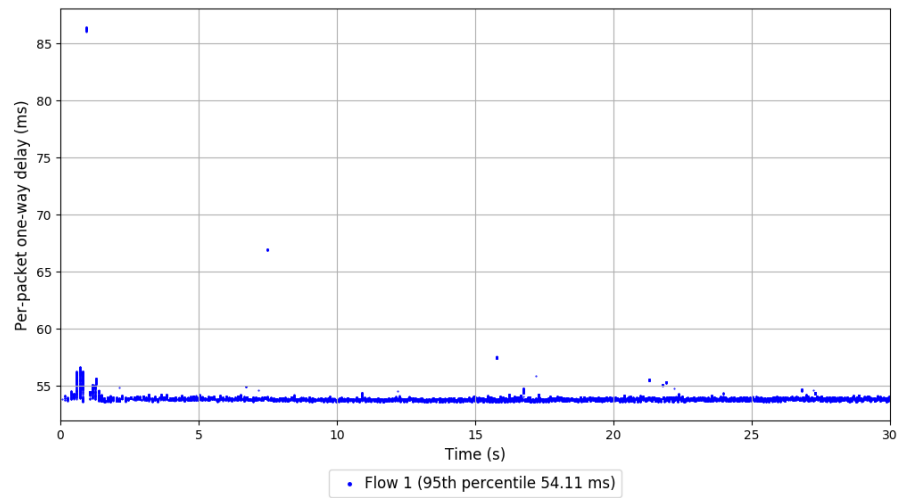
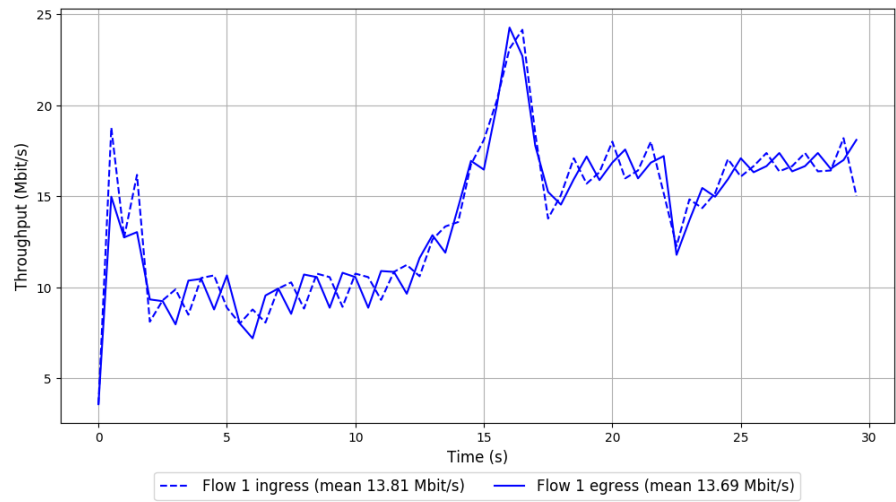
-- Flow 1:

Average throughput: 13.69 Mbit/s

95th percentile per-packet one-way delay: 54.110 ms

Loss rate: 0.85%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-08-17 01:56:41

End at: 2017-08-17 01:57:11

Below is generated by plot.py at 2017-08-17 03:59:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.92 Mbit/s

95th percentile per-packet one-way delay: 54.023 ms

Loss rate: 4.63%

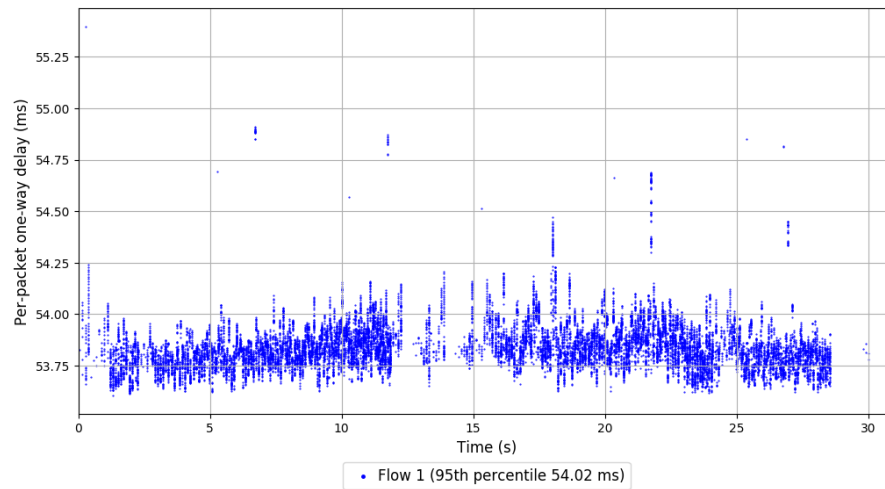
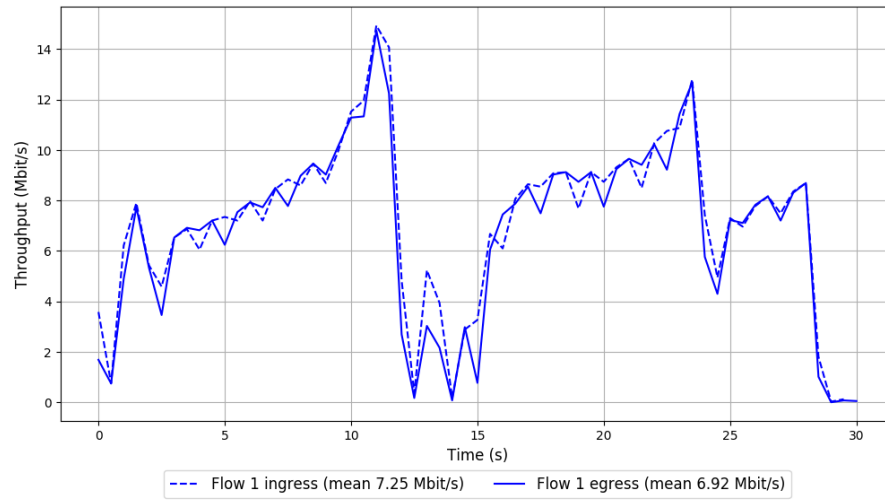
-- Flow 1:

Average throughput: 6.92 Mbit/s

95th percentile per-packet one-way delay: 54.023 ms

Loss rate: 4.63%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-08-17 02:06:57

End at: 2017-08-17 02:07:27

Below is generated by plot.py at 2017-08-17 03:59:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.13 Mbit/s

95th percentile per-packet one-way delay: 54.169 ms

Loss rate: 1.49%

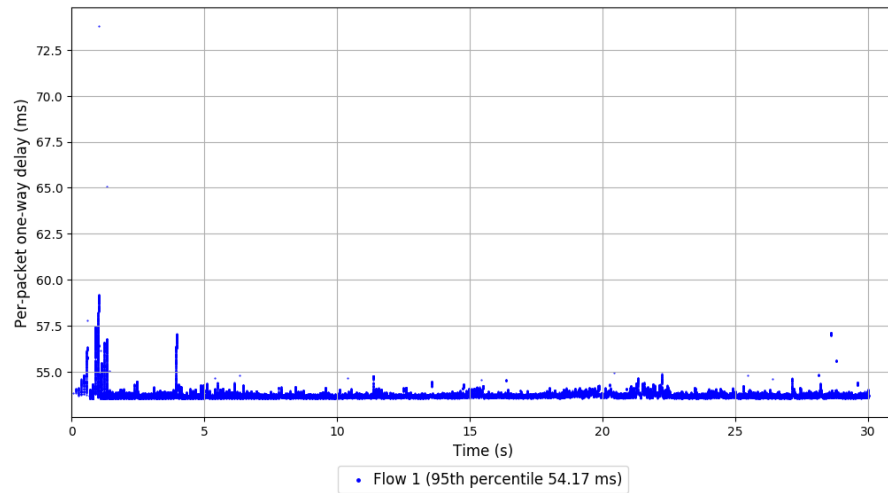
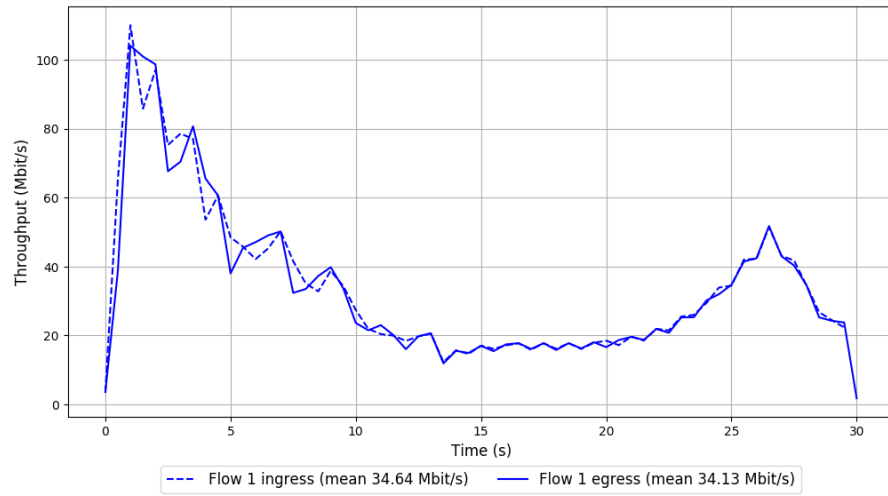
-- Flow 1:

Average throughput: 34.13 Mbit/s

95th percentile per-packet one-way delay: 54.169 ms

Loss rate: 1.49%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

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

End at: 2017-08-17 02:17:32

Below is generated by plot.py at 2017-08-17 03:59:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.17 Mbit/s

95th percentile per-packet one-way delay: 55.469 ms

Loss rate: 0.14%

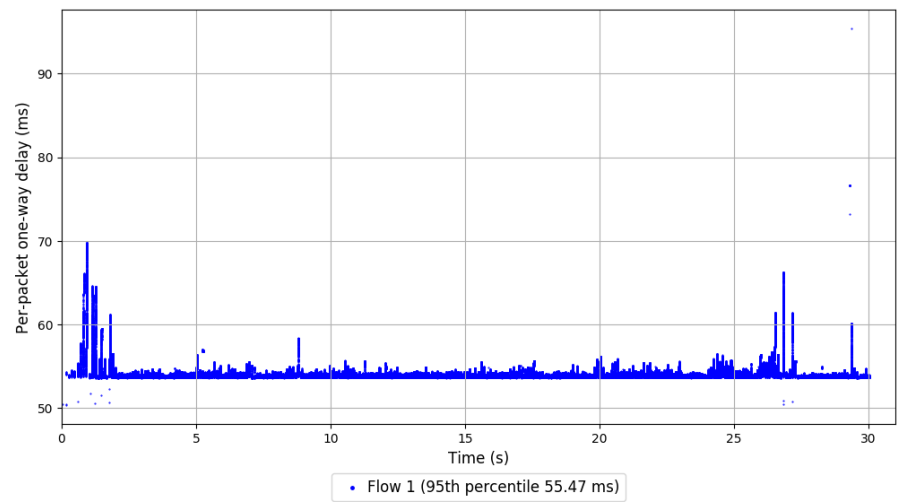
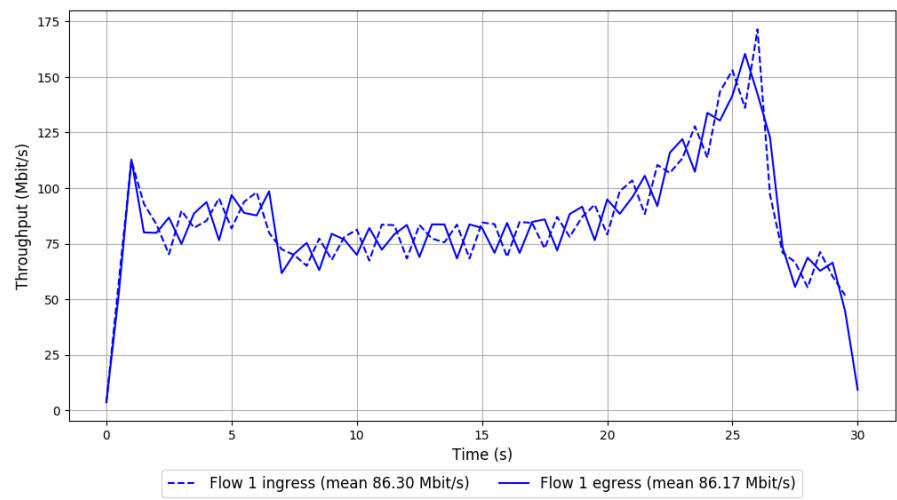
-- Flow 1:

Average throughput: 86.17 Mbit/s

95th percentile per-packet one-way delay: 55.469 ms

Loss rate: 0.14%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-08-17 02:27:08

End at: 2017-08-17 02:27:38

Below is generated by plot.py at 2017-08-17 03:59:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.43 Mbit/s

95th percentile per-packet one-way delay: 54.274 ms

Loss rate: 1.09%

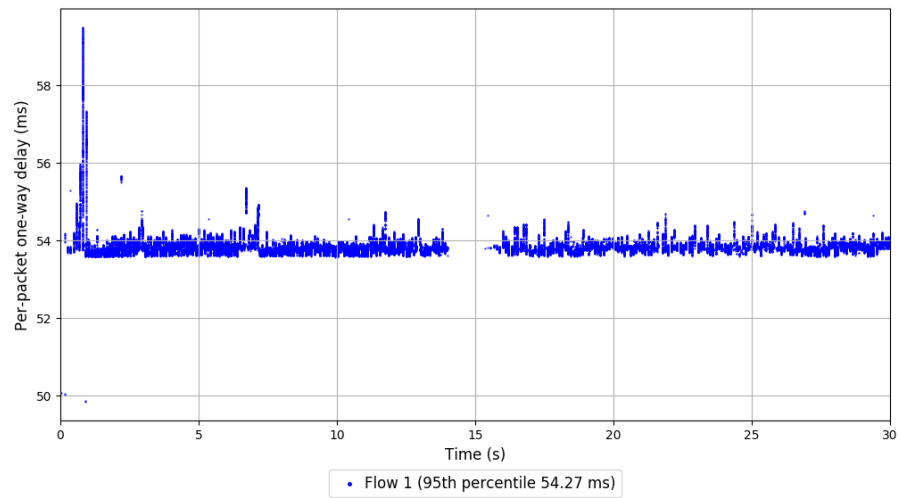
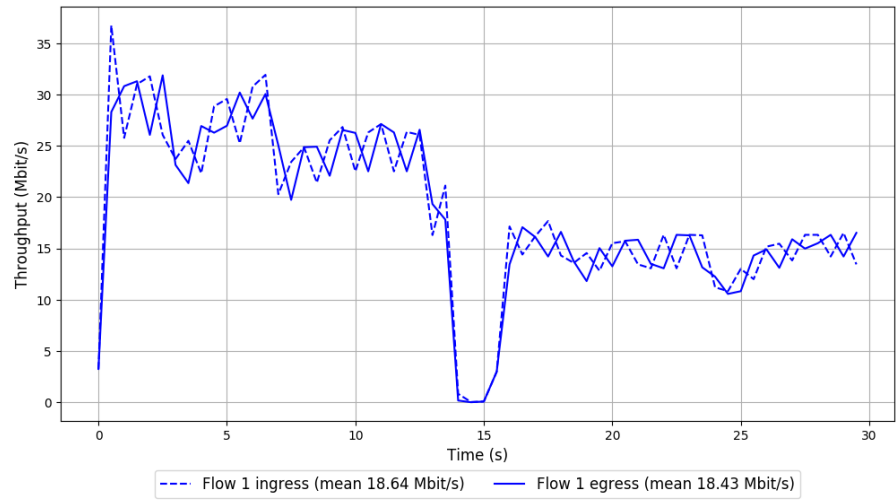
-- Flow 1:

Average throughput: 18.43 Mbit/s

95th percentile per-packet one-way delay: 54.274 ms

Loss rate: 1.09%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-08-17 02:37:48

End at: 2017-08-17 02:38:18

Below is generated by plot.py at 2017-08-17 03:59:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.62 Mbit/s

95th percentile per-packet one-way delay: 54.750 ms

Loss rate: 0.15%

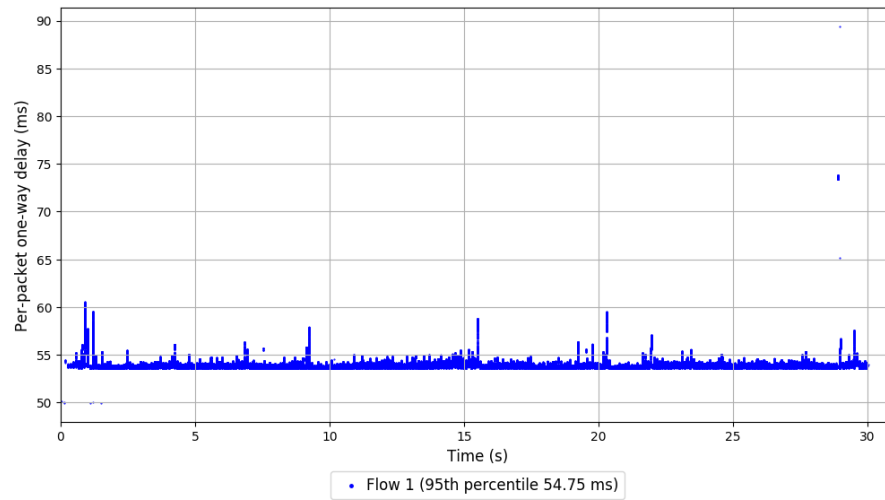
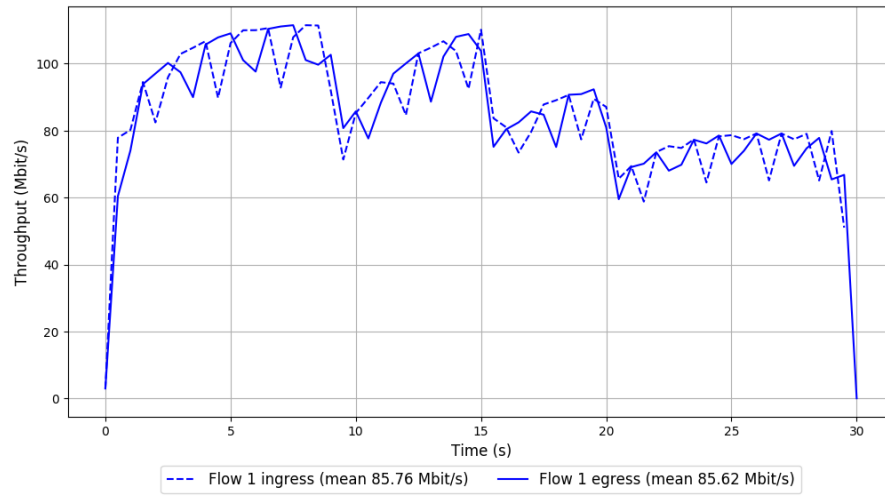
-- Flow 1:

Average throughput: 85.62 Mbit/s

95th percentile per-packet one-way delay: 54.750 ms

Loss rate: 0.15%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-08-17 02:47:59

End at: 2017-08-17 02:48:29

Below is generated by plot.py at 2017-08-17 03:59:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.66 Mbit/s

95th percentile per-packet one-way delay: 54.283 ms

Loss rate: 0.29%

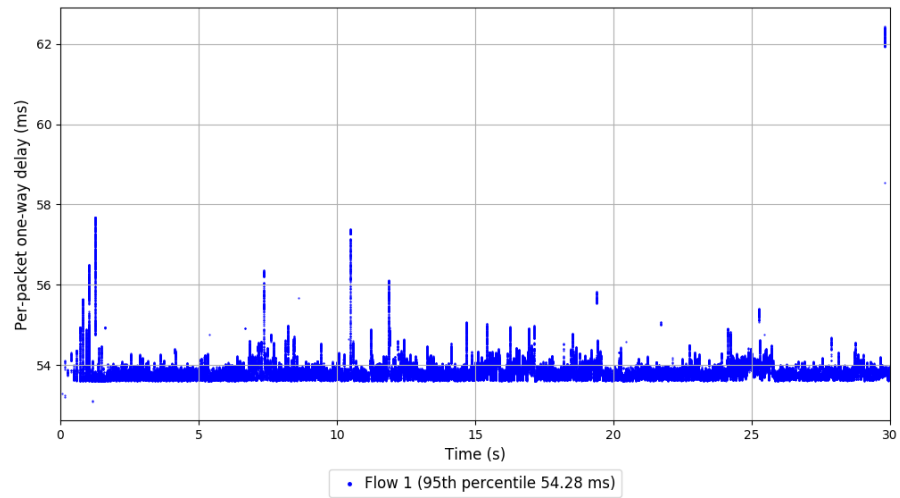
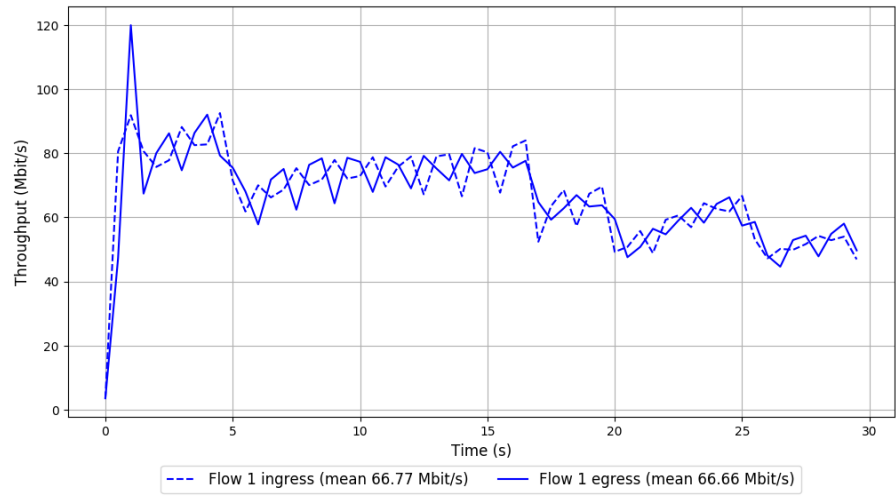
-- Flow 1:

Average throughput: 66.66 Mbit/s

95th percentile per-packet one-way delay: 54.283 ms

Loss rate: 0.29%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-08-17 02:58:10

End at: 2017-08-17 02:58:40

Below is generated by plot.py at 2017-08-17 03:59:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.67 Mbit/s

95th percentile per-packet one-way delay: 53.900 ms

Loss rate: 1.37%

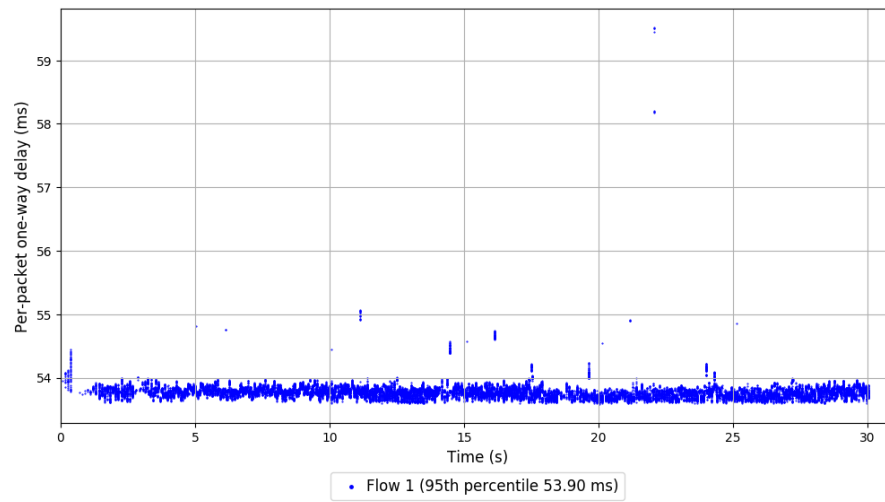
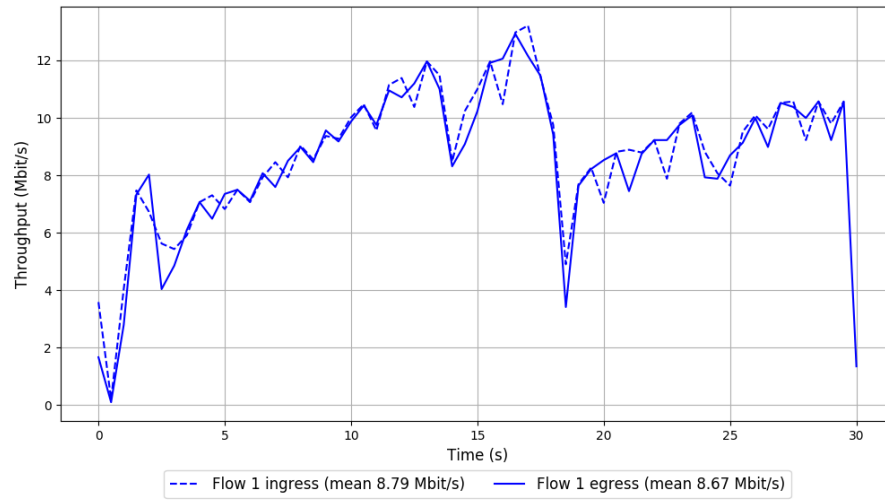
-- Flow 1:

Average throughput: 8.67 Mbit/s

95th percentile per-packet one-way delay: 53.900 ms

Loss rate: 1.37%

Run 10: Report of TCP Cubic — Data Link

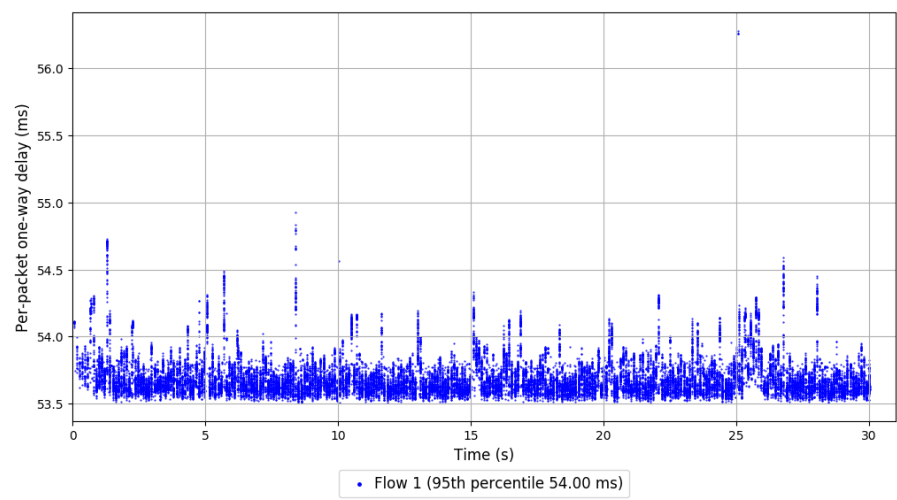
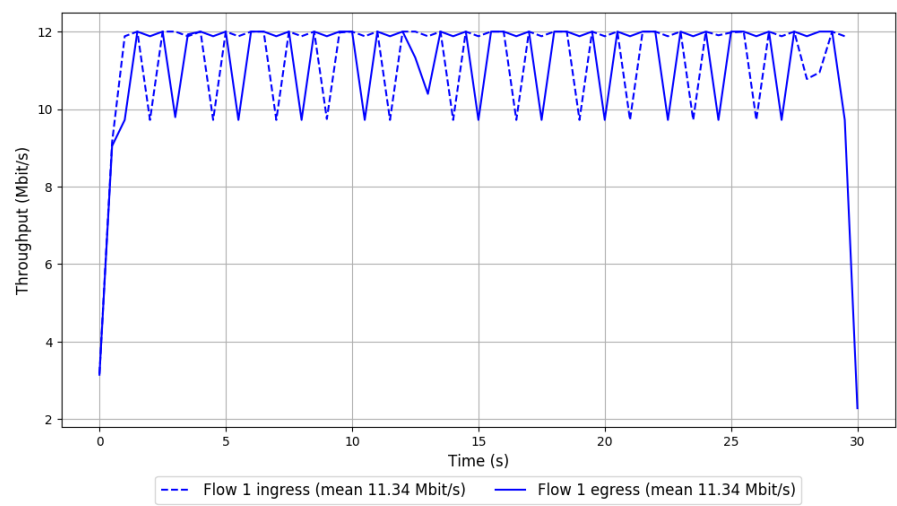


```
Run 1: Statistics of KohoCC

Start at: 2017-08-17 01:17:31
End at: 2017-08-17 01:18:01

# Below is generated by plot.py at 2017-08-17 03:59:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.34 Mbit/s
95th percentile per-packet one-way delay: 54.004 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.34 Mbit/s
95th percentile per-packet one-way delay: 54.004 ms
Loss rate: 0.00%
```


Run 1: Report of KohoCC — Data Link

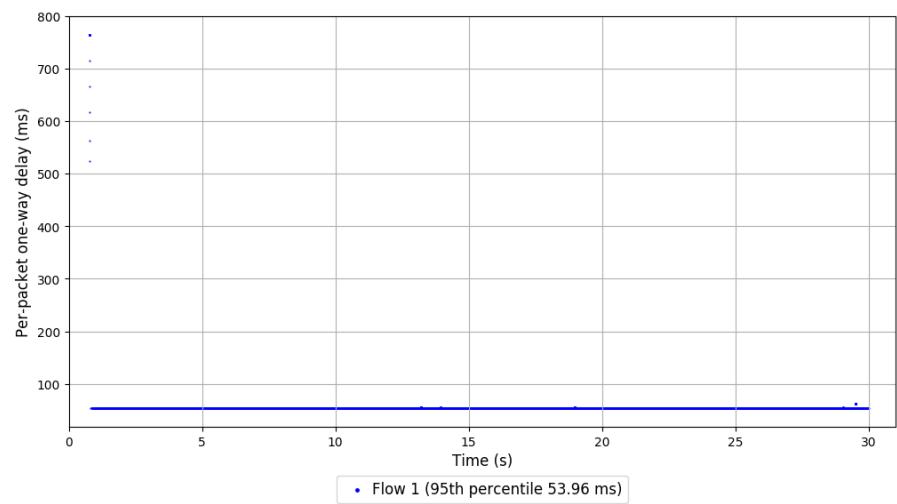
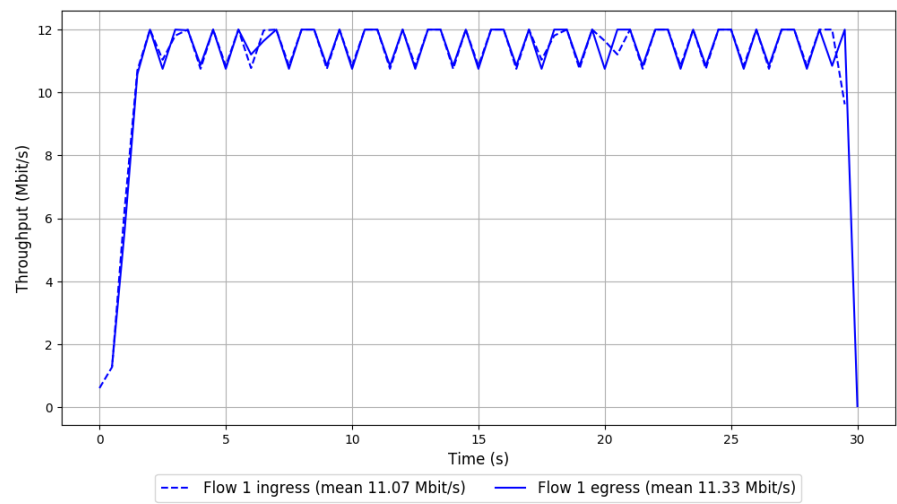


```
Run 2: Statistics of KohoCC

Start at: 2017-08-17 01:27:09
End at: 2017-08-17 01:27:39

# Below is generated by plot.py at 2017-08-17 03:59:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.33 Mbit/s
95th percentile per-packet one-way delay: 53.964 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 11.33 Mbit/s
95th percentile per-packet one-way delay: 53.964 ms
Loss rate: 0.03%
```

Run 2: Report of KohoCC — Data Link



Run 3: Statistics of KohoCC

Start at: 2017-08-17 01:37:11

End at: 2017-08-17 01:37:41

Below is generated by plot.py at 2017-08-17 03:59:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.31 Mbit/s

95th percentile per-packet one-way delay: 53.922 ms

Loss rate: 0.34%

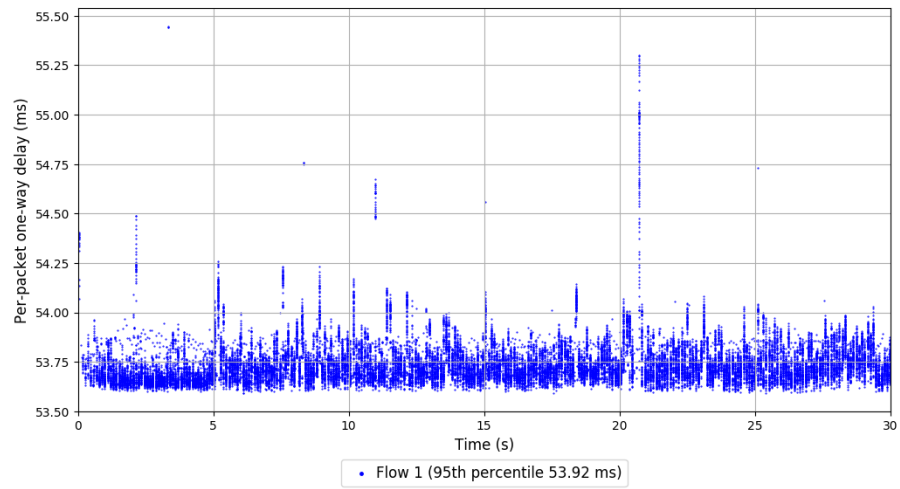
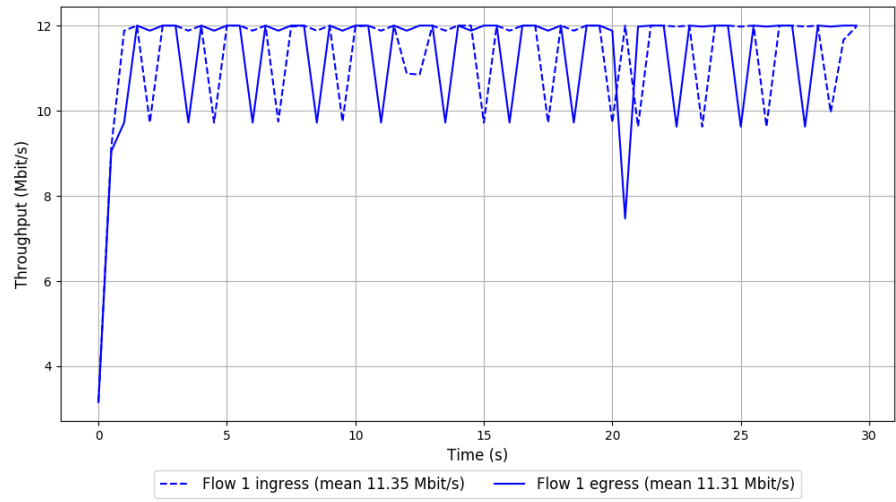
-- Flow 1:

Average throughput: 11.31 Mbit/s

95th percentile per-packet one-way delay: 53.922 ms

Loss rate: 0.34%

Run 3: Report of KohoCC — Data Link



Run 4: Statistics of KohoCC

Start at: 2017-08-17 01:47:40

End at: 2017-08-17 01:48:11

Below is generated by plot.py at 2017-08-17 03:59:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.02 Mbit/s

95th percentile per-packet one-way delay: 53.882 ms

Loss rate: 0.00%

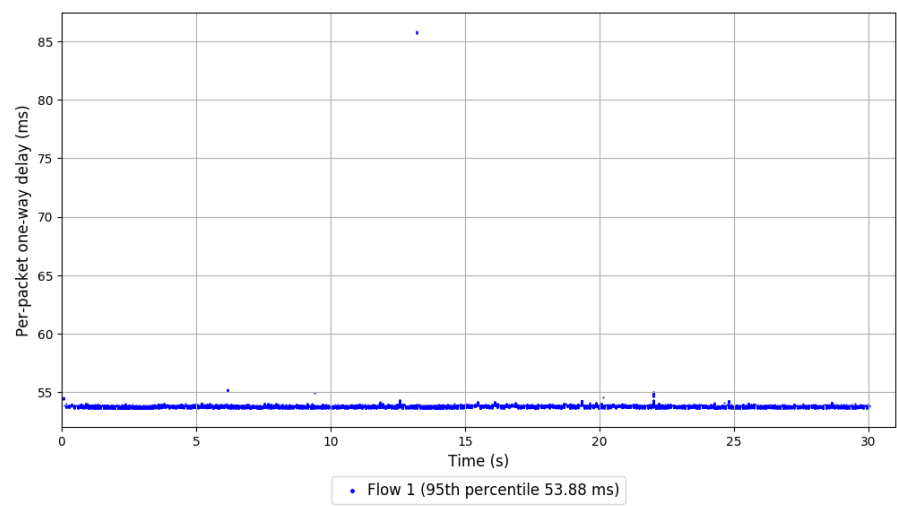
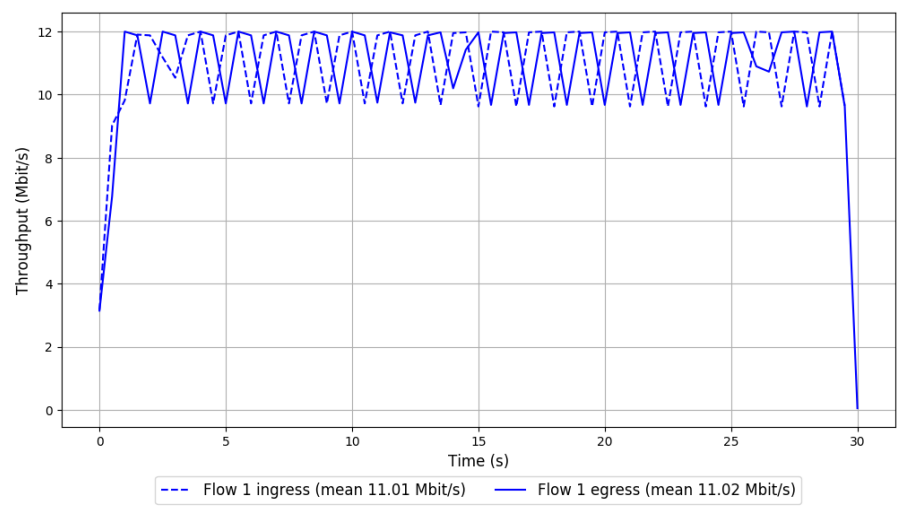
-- Flow 1:

Average throughput: 11.02 Mbit/s

95th percentile per-packet one-way delay: 53.882 ms

Loss rate: 0.00%

Run 4: Report of KohoCC — Data Link



Run 5: Statistics of KohoCC

Start at: 2017-08-17 01:57:55

End at: 2017-08-17 01:58:25

Below is generated by plot.py at 2017-08-17 03:59:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.35 Mbit/s

95th percentile per-packet one-way delay: 54.046 ms

Loss rate: 0.00%

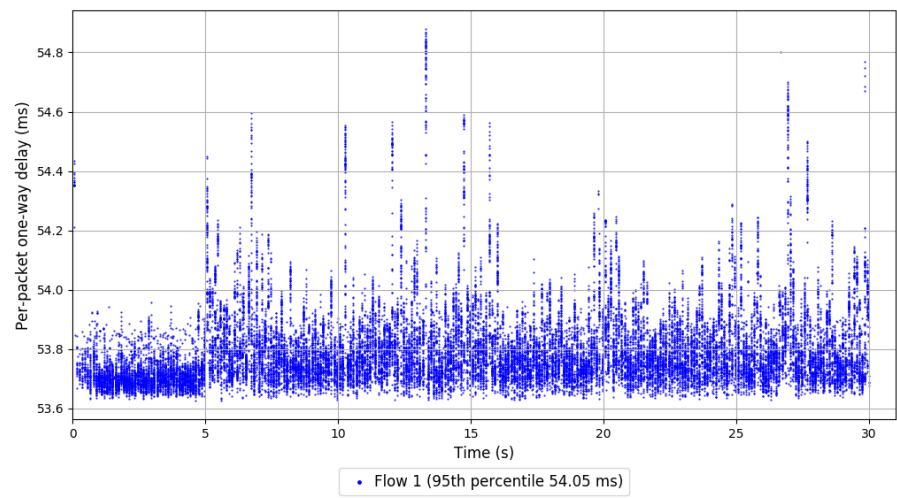
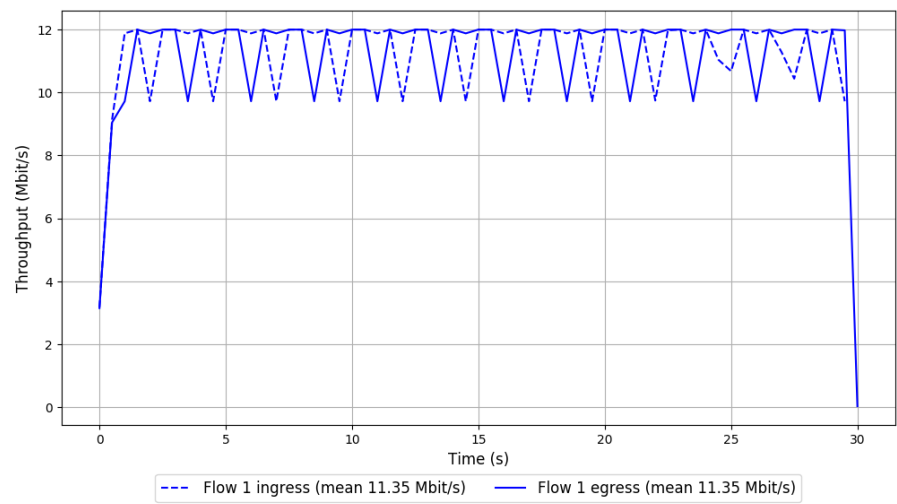
-- Flow 1:

Average throughput: 11.35 Mbit/s

95th percentile per-packet one-way delay: 54.046 ms

Loss rate: 0.00%

Run 5: Report of KohoCC — Data Link



Run 6: Statistics of KohoCC

Start at: 2017-08-17 02:08:15

End at: 2017-08-17 02:08:45

Below is generated by plot.py at 2017-08-17 03:59:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 53.840 ms

Loss rate: 95.66%

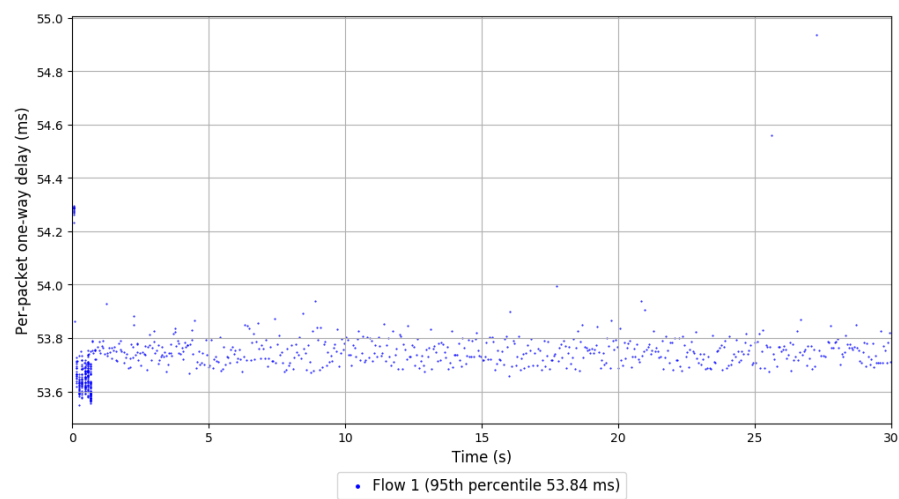
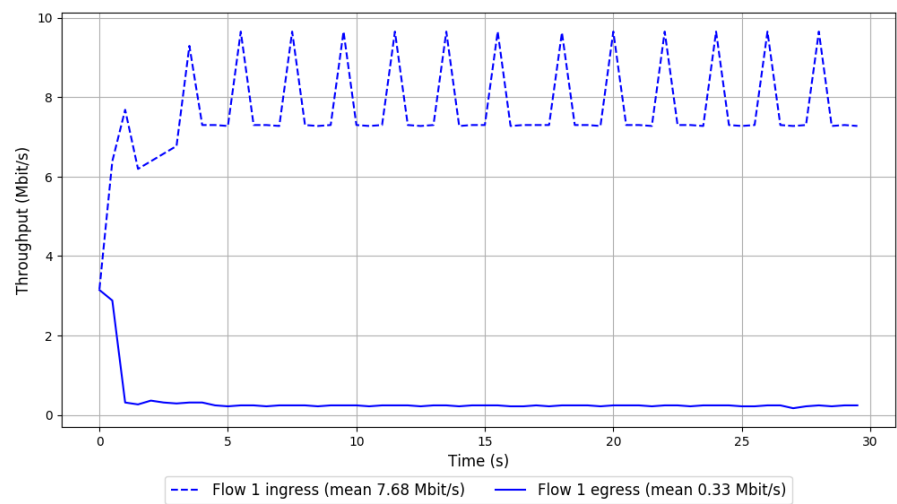
-- Flow 1:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 53.840 ms

Loss rate: 95.66%

Run 6: Report of KohoCC — Data Link



Run 7: Statistics of KohoCC

Start at: 2017-08-17 02:18:21

End at: 2017-08-17 02:18:51

Below is generated by plot.py at 2017-08-17 03:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.31 Mbit/s

95th percentile per-packet one-way delay: 54.010 ms

Loss rate: 0.34%

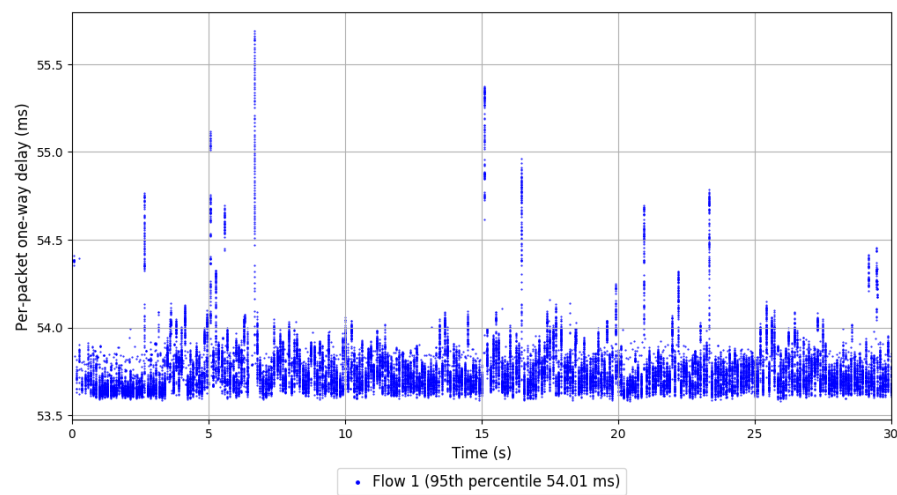
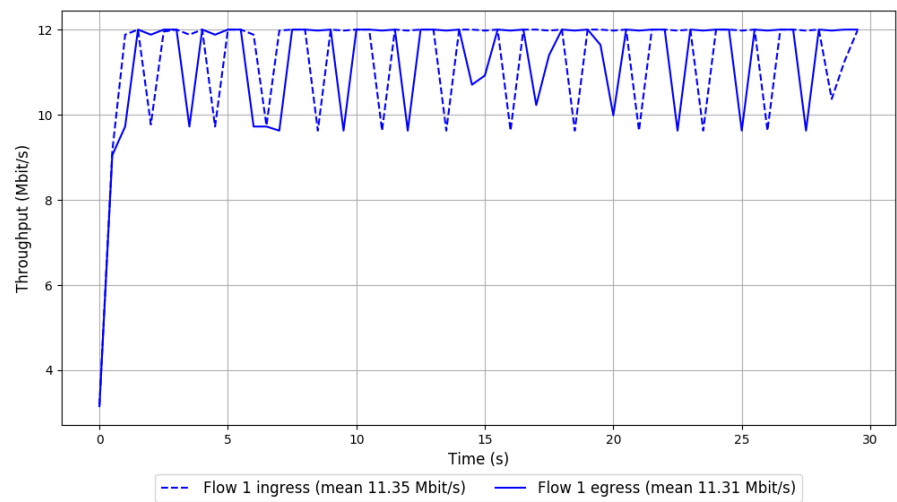
-- Flow 1:

Average throughput: 11.31 Mbit/s

95th percentile per-packet one-way delay: 54.010 ms

Loss rate: 0.34%

Run 7: Report of KohoCC — Data Link



Run 8: Statistics of KohoCC

Start at: 2017-08-17 02:28:23

End at: 2017-08-17 02:28:53

Below is generated by plot.py at 2017-08-17 03:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.07 Mbit/s

95th percentile per-packet one-way delay: 53.891 ms

Loss rate: 0.00%

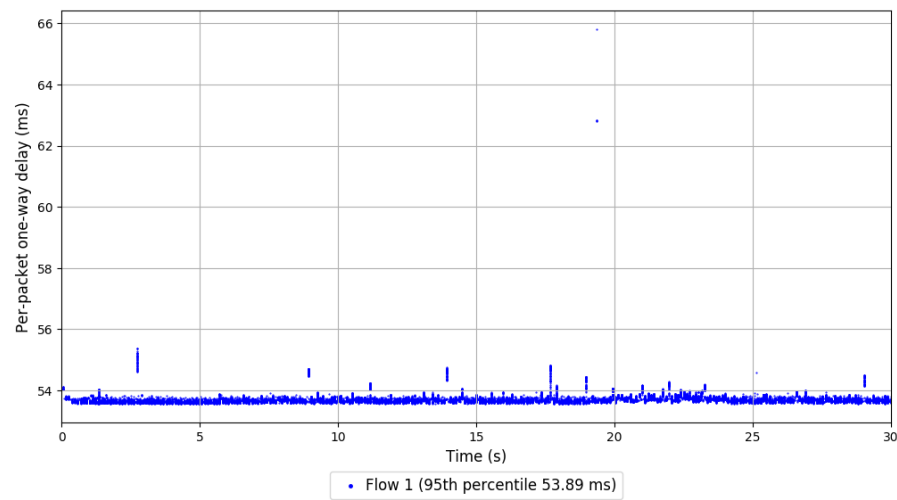
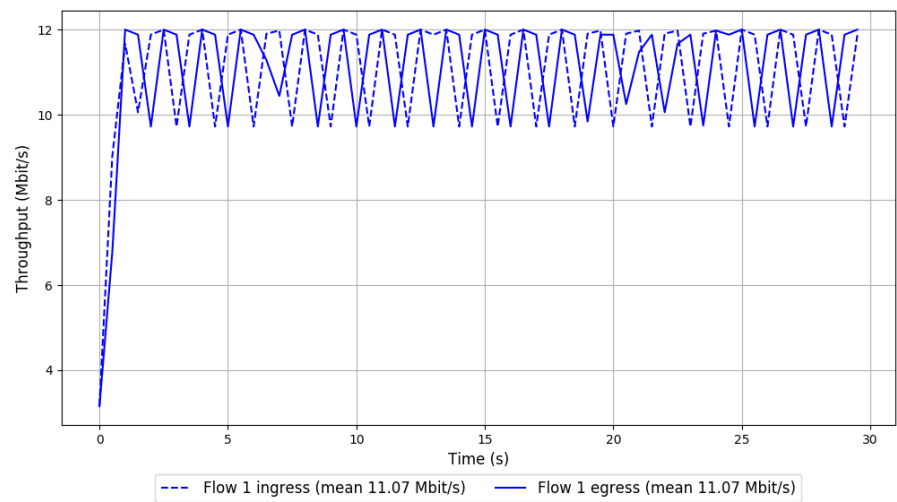
-- Flow 1:

Average throughput: 11.07 Mbit/s

95th percentile per-packet one-way delay: 53.891 ms

Loss rate: 0.00%

Run 8: Report of KohoCC — Data Link



Run 9: Statistics of KohoCC

Start at: 2017-08-17 02:39:07

End at: 2017-08-17 02:39:37

Below is generated by plot.py at 2017-08-17 04:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.82 Mbit/s

95th percentile per-packet one-way delay: 53.991 ms

Loss rate: 0.81%

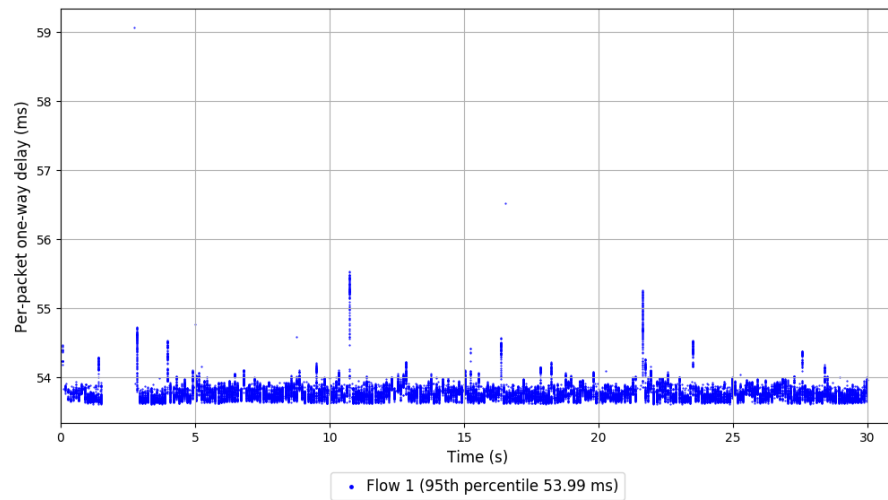
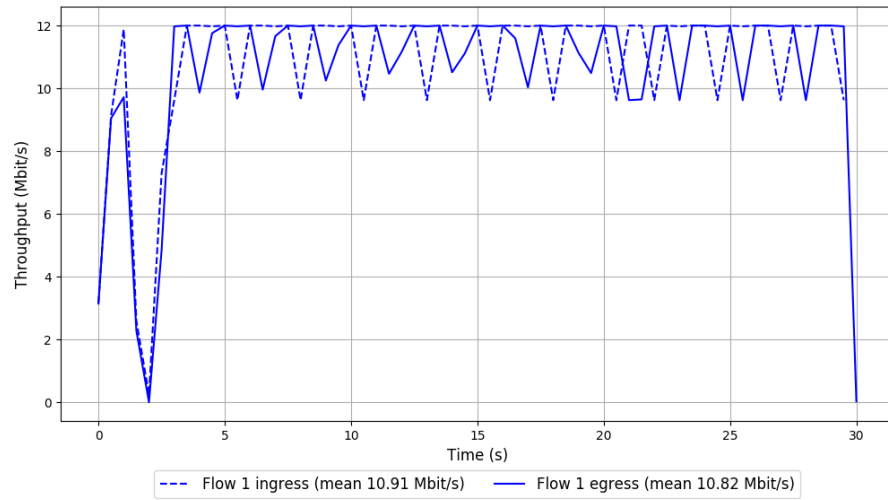
-- Flow 1:

Average throughput: 10.82 Mbit/s

95th percentile per-packet one-way delay: 53.991 ms

Loss rate: 0.81%

Run 9: Report of KohoCC — Data Link

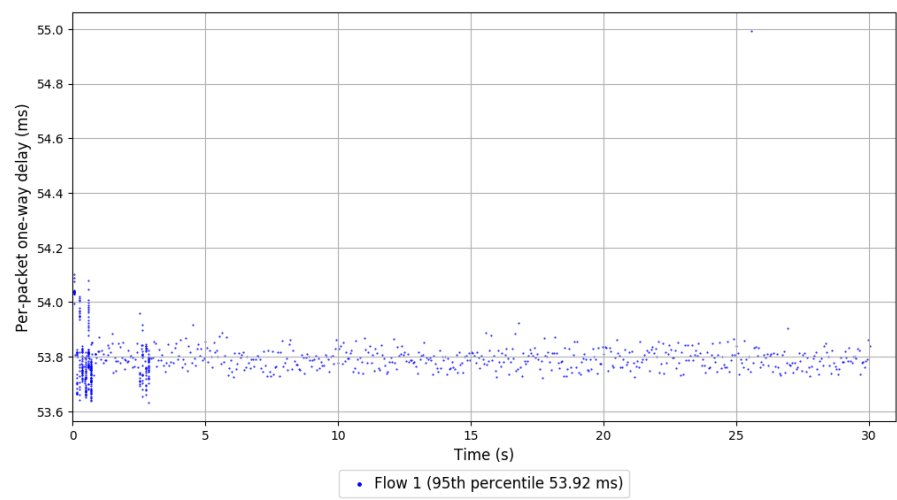
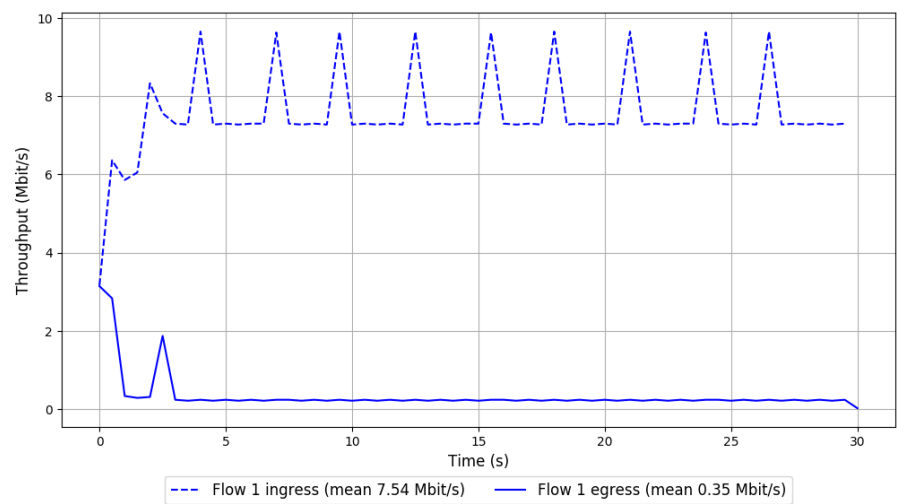


```
Run 10: Statistics of KohoCC

Start at: 2017-08-17 02:49:16
End at: 2017-08-17 02:49:46

# Below is generated by plot.py at 2017-08-17 04:00:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 53.917 ms
Loss rate: 95.32%
-- Flow 1:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 53.917 ms
Loss rate: 95.32%
```

Run 10: Report of KohoCC — Data Link

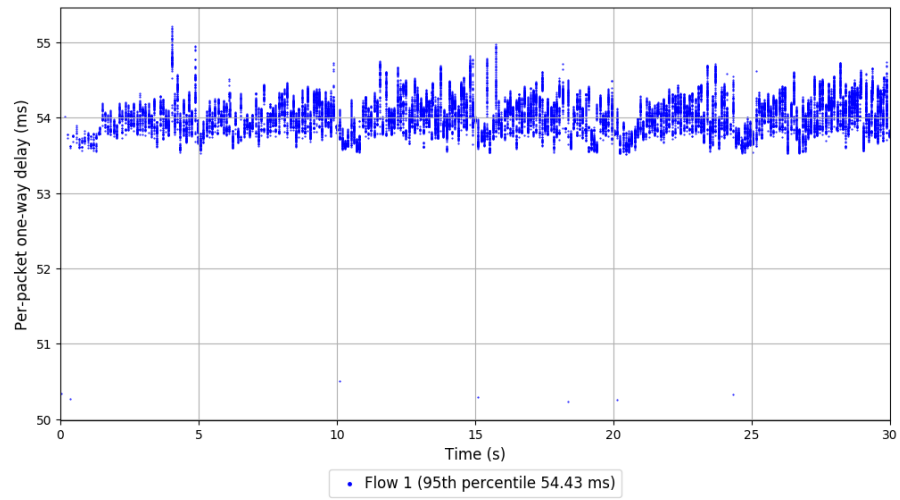
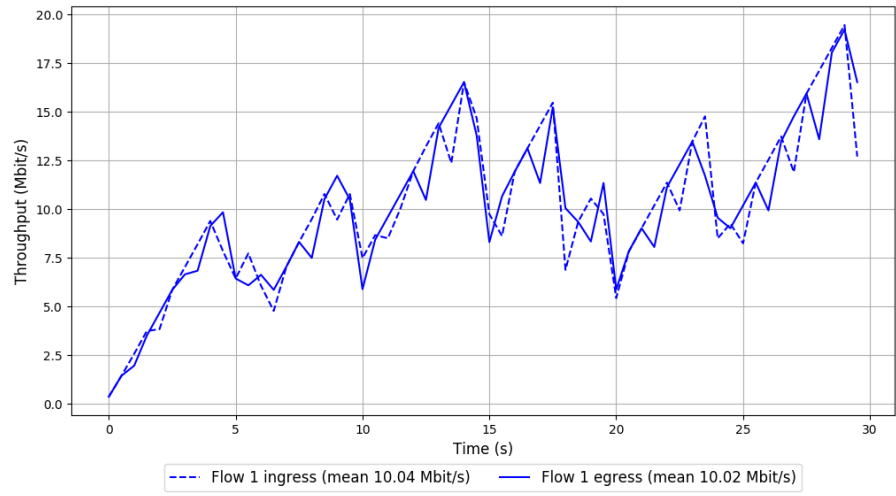


```
Run 1: Statistics of LEDBAT

Start at: 2017-08-17 01:22:47
End at: 2017-08-17 01:23:17

# Below is generated by plot.py at 2017-08-17 04:00:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.02 Mbit/s
95th percentile per-packet one-way delay: 54.427 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 10.02 Mbit/s
95th percentile per-packet one-way delay: 54.427 ms
Loss rate: 0.20%
```

Run 1: Report of LEDBAT — Data Link

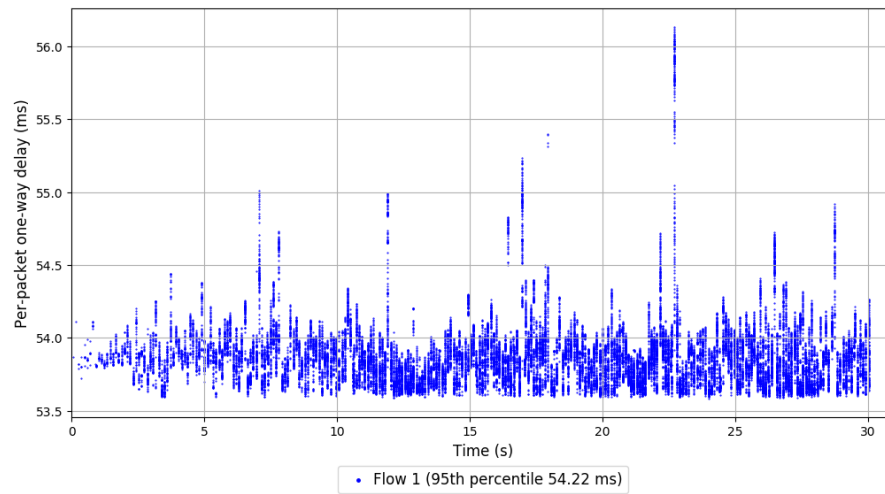
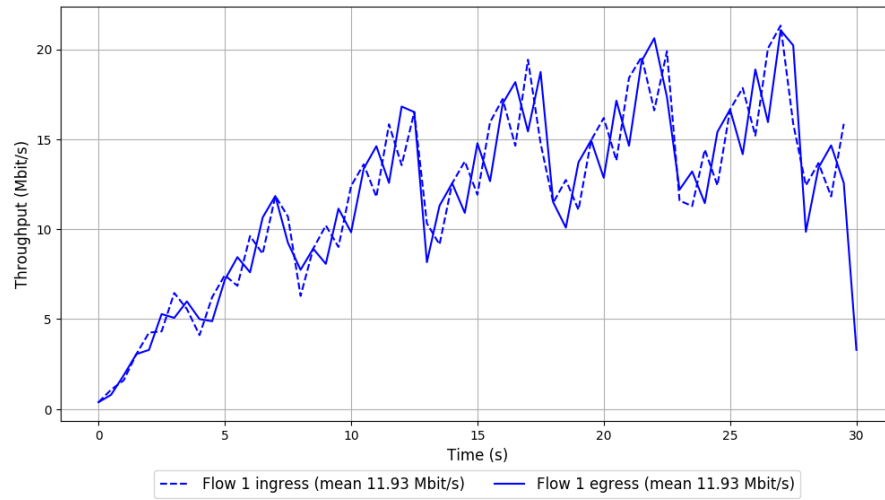


```
Run 2: Statistics of LEDBAT

Start at: 2017-08-17 01:32:30
End at: 2017-08-17 01:33:00

# Below is generated by plot.py at 2017-08-17 04:00:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.93 Mbit/s
95th percentile per-packet one-way delay: 54.215 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 11.93 Mbit/s
95th percentile per-packet one-way delay: 54.215 ms
Loss rate: 0.01%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-08-17 01:43:00

End at: 2017-08-17 01:43:30

Below is generated by plot.py at 2017-08-17 04:00:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.74 Mbit/s

95th percentile per-packet one-way delay: 54.261 ms

Loss rate: 0.47%

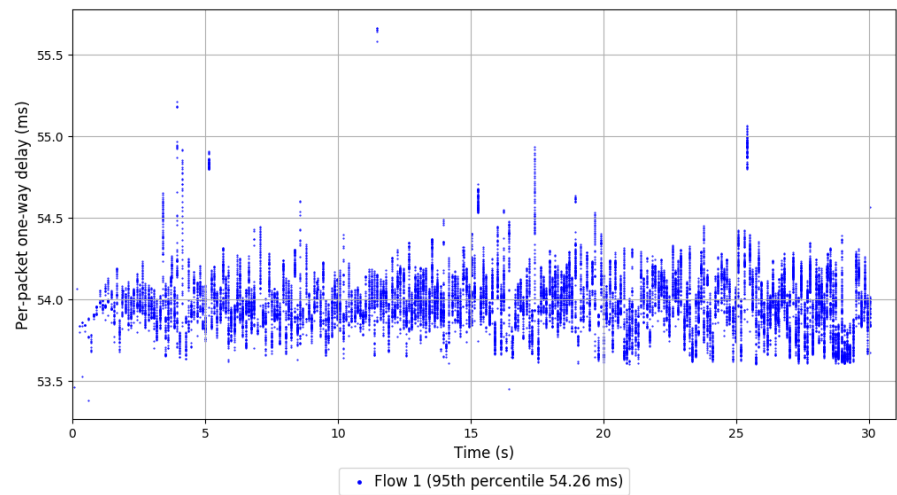
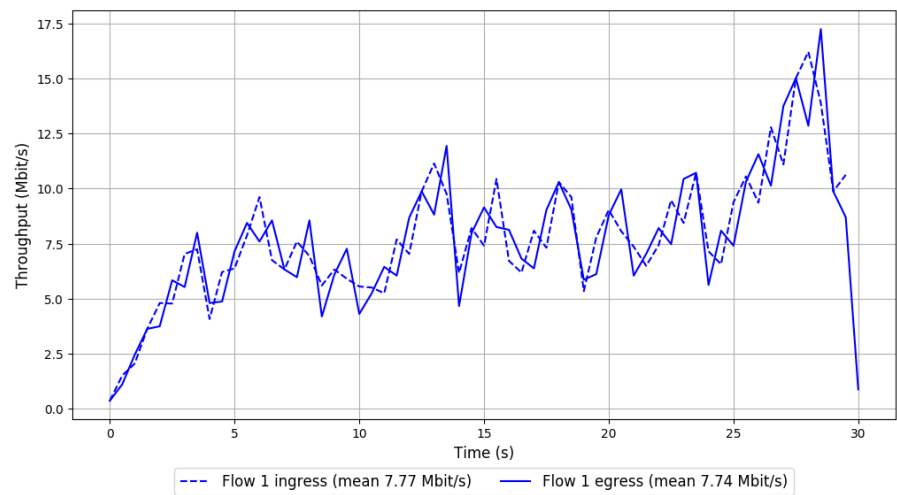
-- Flow 1:

Average throughput: 7.74 Mbit/s

95th percentile per-packet one-way delay: 54.261 ms

Loss rate: 0.47%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-08-17 01:53:08

End at: 2017-08-17 01:53:38

Below is generated by plot.py at 2017-08-17 04:00:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.90 Mbit/s

95th percentile per-packet one-way delay: 54.178 ms

Loss rate: 5.13%

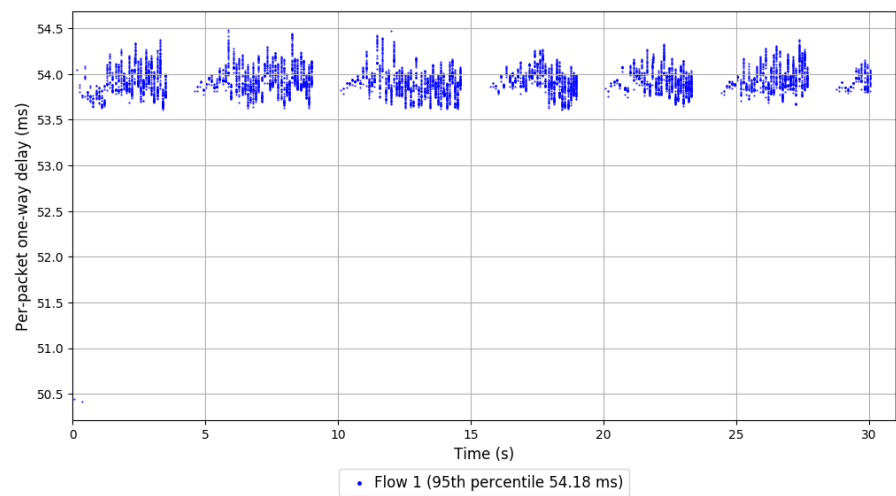
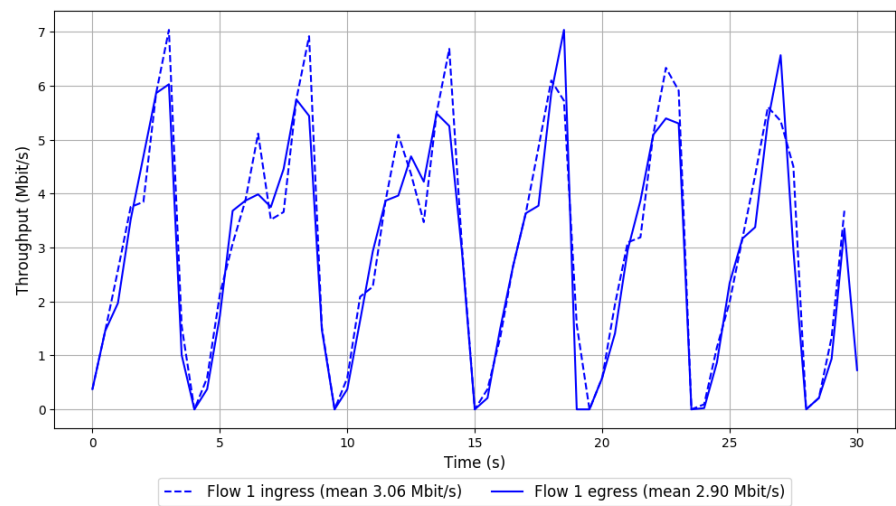
-- Flow 1:

Average throughput: 2.90 Mbit/s

95th percentile per-packet one-way delay: 54.178 ms

Loss rate: 5.13%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-08-17 02:03:32

End at: 2017-08-17 02:04:02

Below is generated by plot.py at 2017-08-17 04:00:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.99 Mbit/s

95th percentile per-packet one-way delay: 54.230 ms

Loss rate: 0.39%

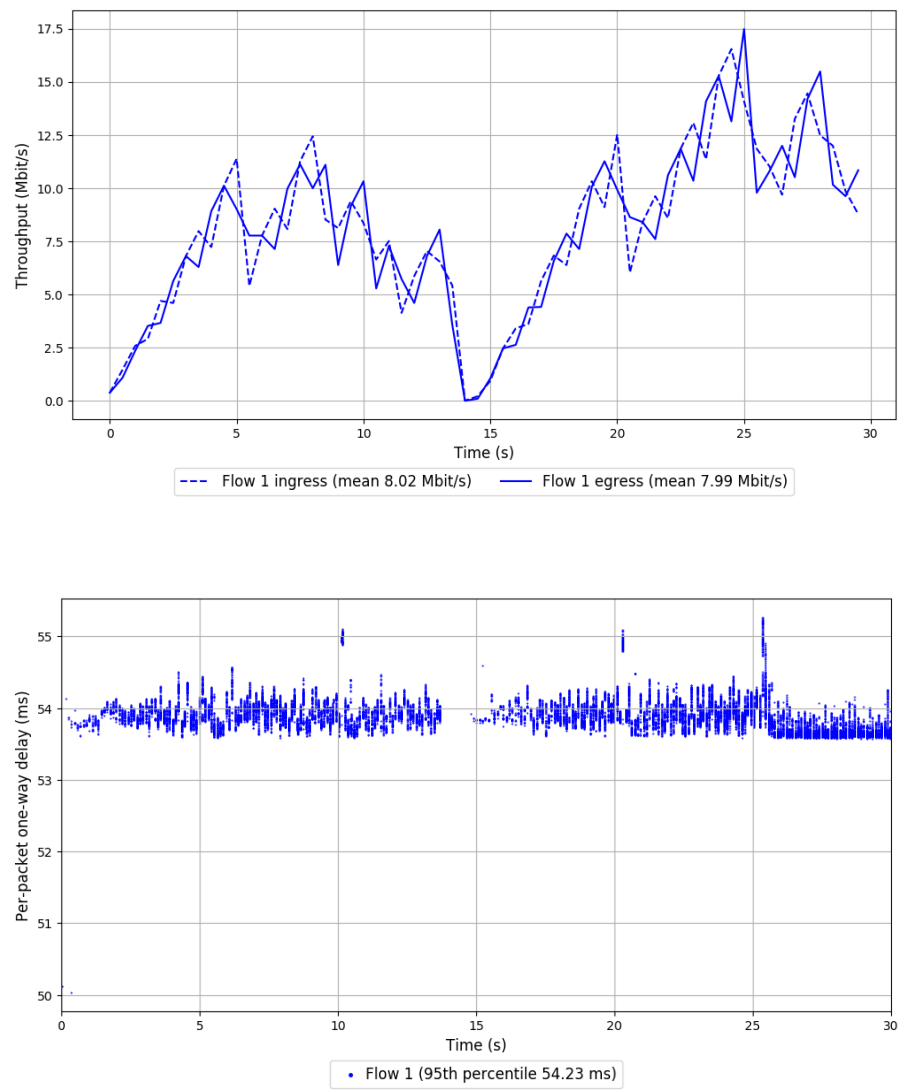
-- Flow 1:

Average throughput: 7.99 Mbit/s

95th percentile per-packet one-way delay: 54.230 ms

Loss rate: 0.39%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-08-17 02:13:53

End at: 2017-08-17 02:14:23

Below is generated by plot.py at 2017-08-17 04:00:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.94 Mbit/s

95th percentile per-packet one-way delay: 54.370 ms

Loss rate: 0.62%

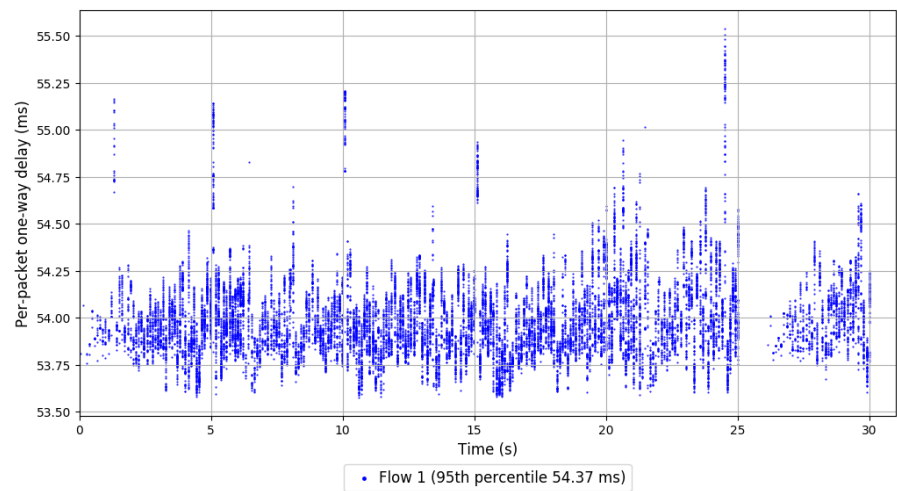
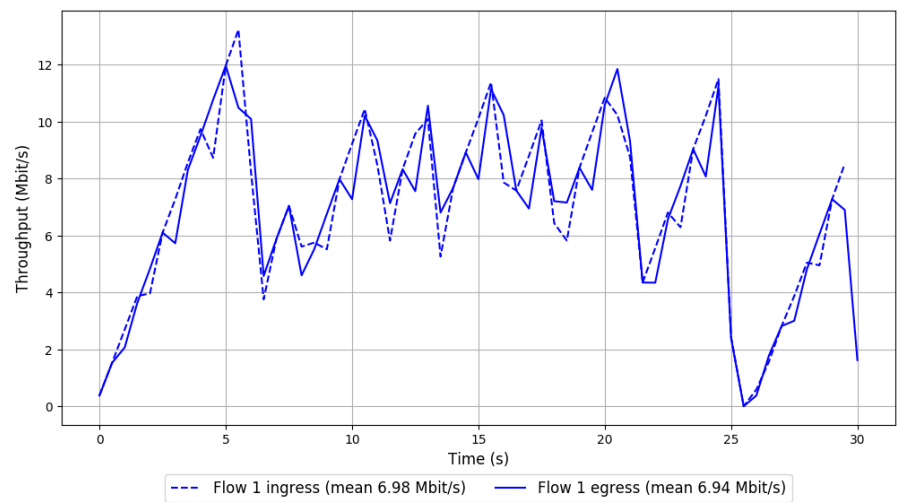
-- Flow 1:

Average throughput: 6.94 Mbit/s

95th percentile per-packet one-way delay: 54.370 ms

Loss rate: 0.62%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-08-17 02:23:58

End at: 2017-08-17 02:24:28

Below is generated by plot.py at 2017-08-17 04:00:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.59 Mbit/s

95th percentile per-packet one-way delay: 54.289 ms

Loss rate: 1.08%

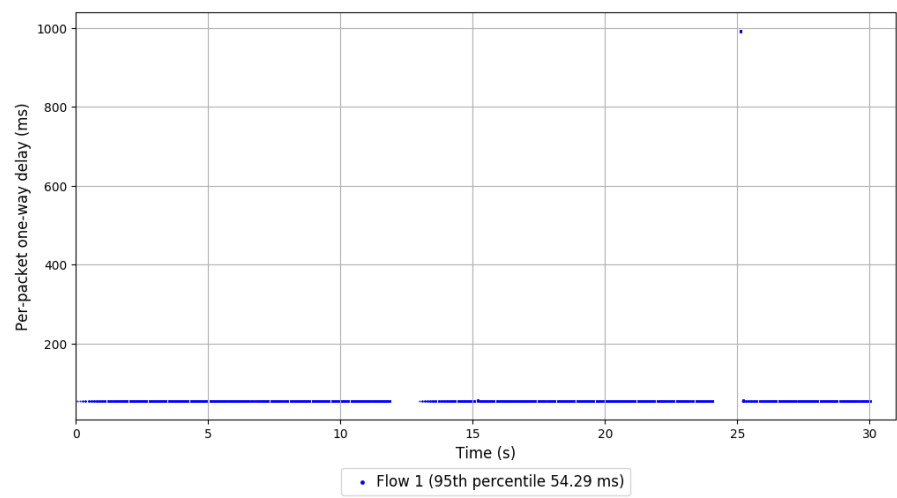
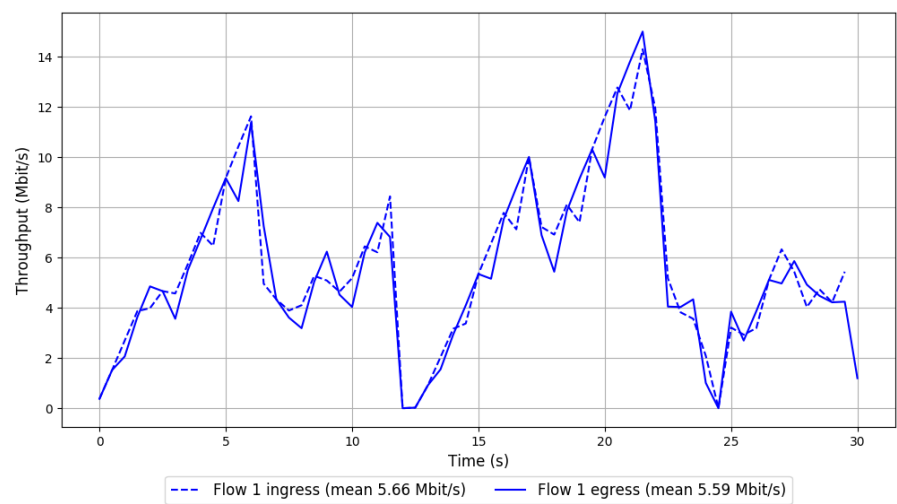
-- Flow 1:

Average throughput: 5.59 Mbit/s

95th percentile per-packet one-way delay: 54.289 ms

Loss rate: 1.08%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-08-17 02:34:23

End at: 2017-08-17 02:34:53

Below is generated by plot.py at 2017-08-17 04:00:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.16 Mbit/s

95th percentile per-packet one-way delay: 54.692 ms

Loss rate: 0.00%

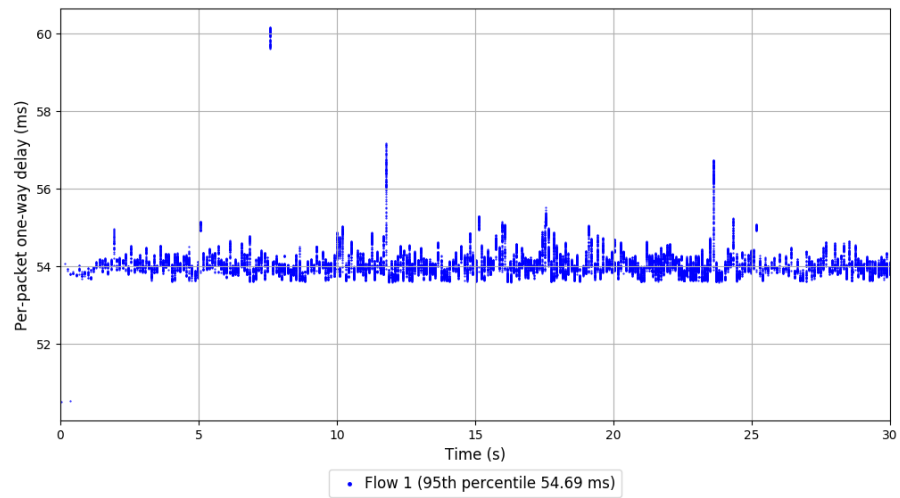
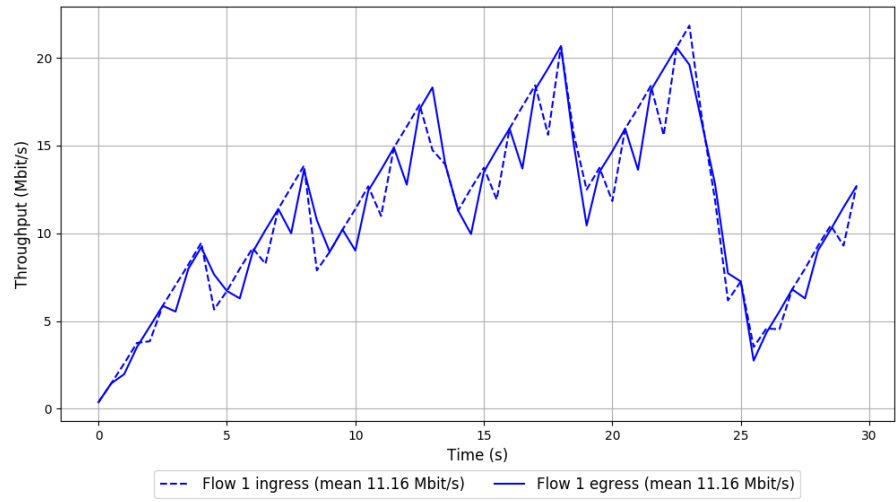
-- Flow 1:

Average throughput: 11.16 Mbit/s

95th percentile per-packet one-way delay: 54.692 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-08-17 02:44:29

End at: 2017-08-17 02:44:59

Below is generated by plot.py at 2017-08-17 04:00:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.72 Mbit/s

95th percentile per-packet one-way delay: 54.038 ms

Loss rate: 5.57%

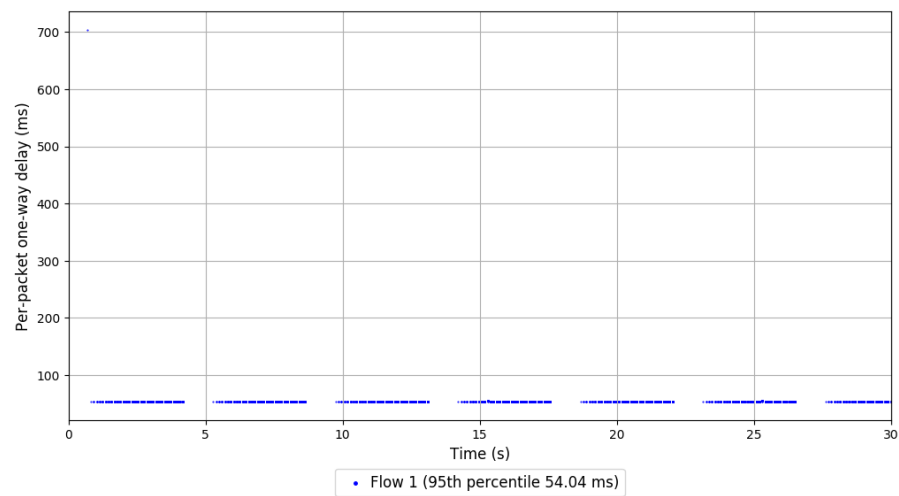
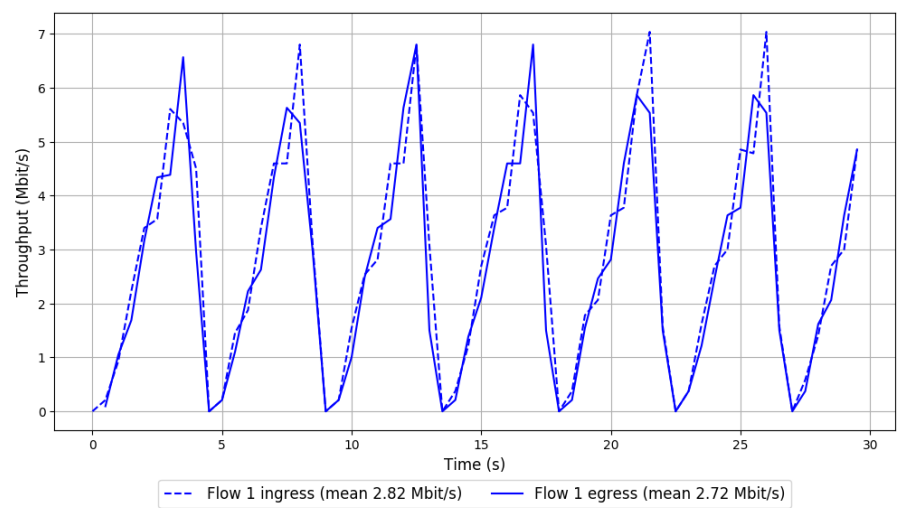
-- Flow 1:

Average throughput: 2.72 Mbit/s

95th percentile per-packet one-way delay: 54.038 ms

Loss rate: 5.57%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-08-17 02:54:39

End at: 2017-08-17 02:55:09

Below is generated by plot.py at 2017-08-17 04:00:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.68 Mbit/s

95th percentile per-packet one-way delay: 54.481 ms

Loss rate: 0.17%

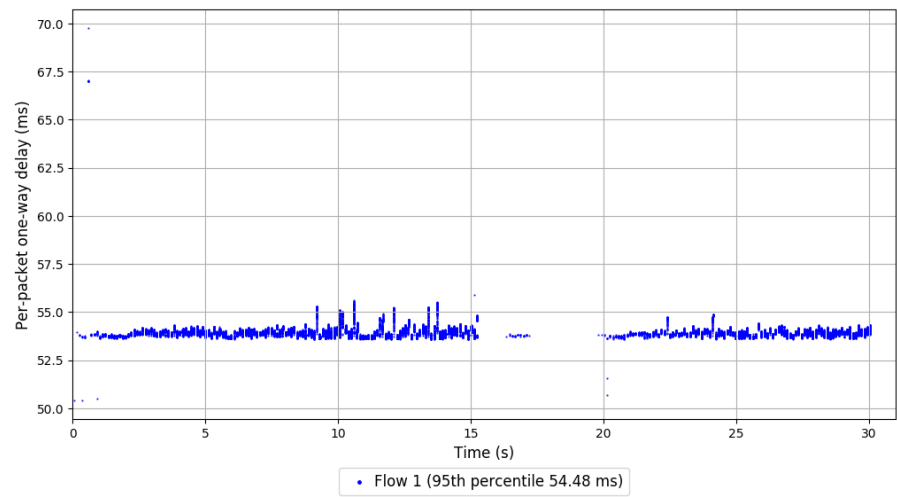
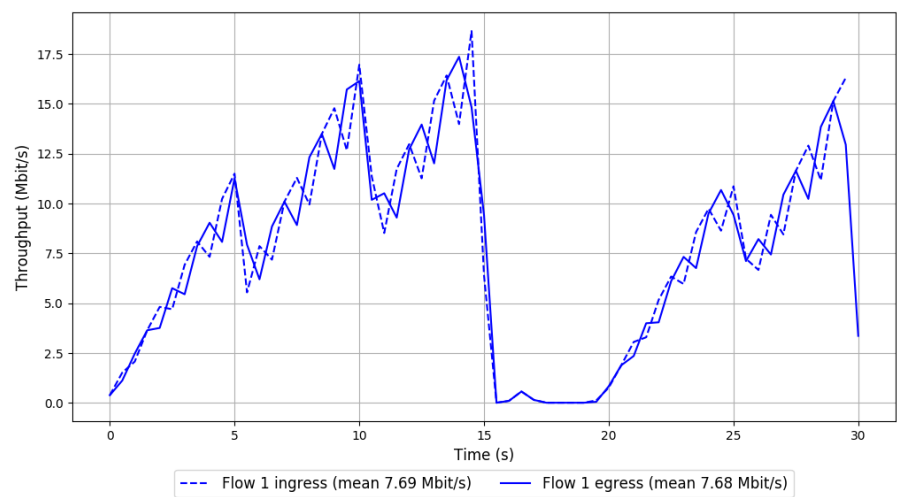
-- Flow 1:

Average throughput: 7.68 Mbit/s

95th percentile per-packet one-way delay: 54.481 ms

Loss rate: 0.17%

Run 10: Report of LEDBAT — Data Link

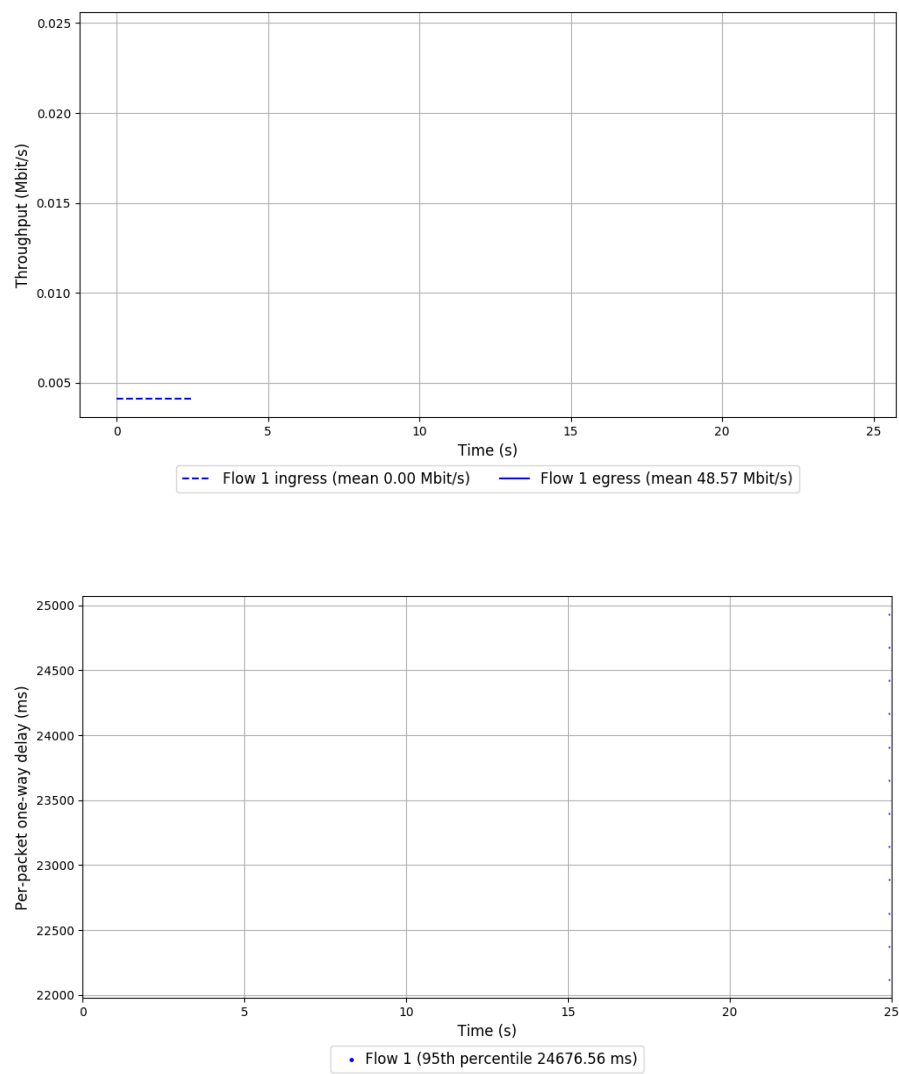


Run 1: Statistics of PCC

Start at: 2017-08-17 01:19:24

End at: 2017-08-17 01:19:54

Run 1: Report of PCC — Data Link

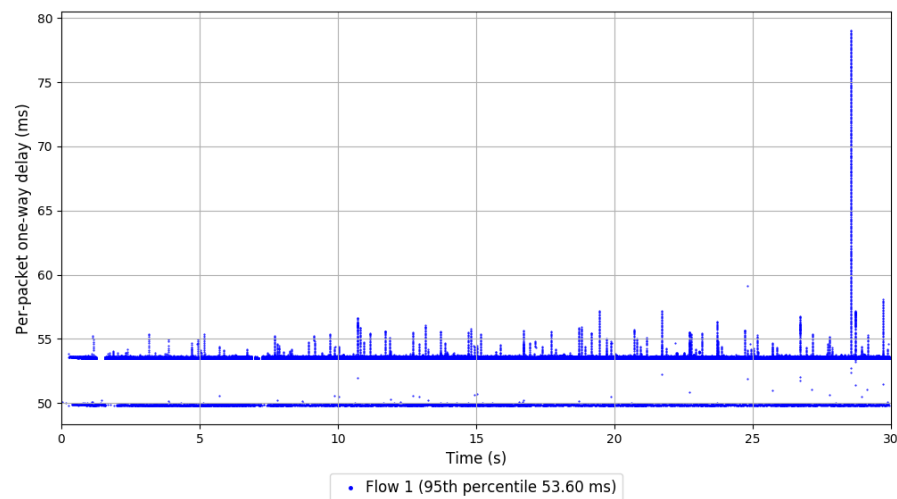
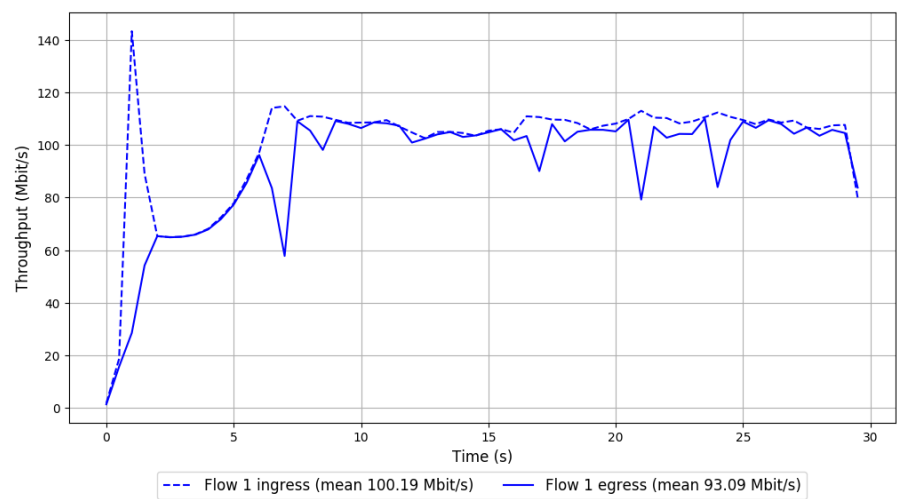


```
Run 2: Statistics of PCC

Start at: 2017-08-17 01:29:03
End at: 2017-08-17 01:29:33

# Below is generated by plot.py at 2017-08-17 04:00:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.09 Mbit/s
95th percentile per-packet one-way delay: 53.601 ms
Loss rate: 7.10%
-- Flow 1:
Average throughput: 93.09 Mbit/s
95th percentile per-packet one-way delay: 53.601 ms
Loss rate: 7.10%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-08-17 01:39:24

End at: 2017-08-17 01:39:54

Below is generated by plot.py at 2017-08-17 04:00:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.13 Mbit/s

95th percentile per-packet one-way delay: 53.694 ms

Loss rate: 7.66%

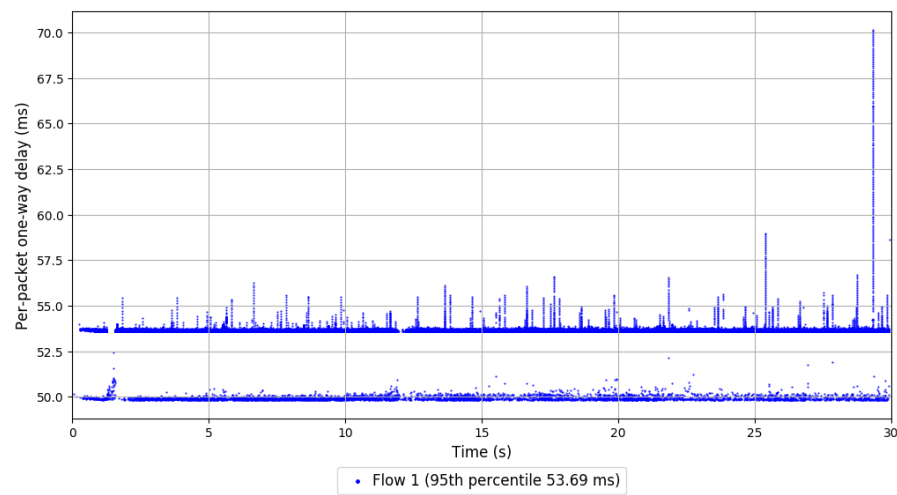
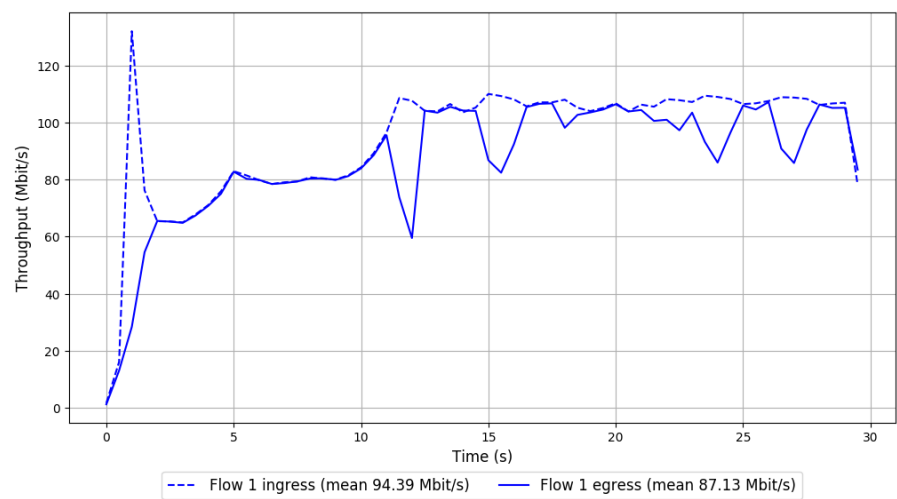
-- Flow 1:

Average throughput: 87.13 Mbit/s

95th percentile per-packet one-way delay: 53.694 ms

Loss rate: 7.66%

Run 3: Report of PCC — Data Link

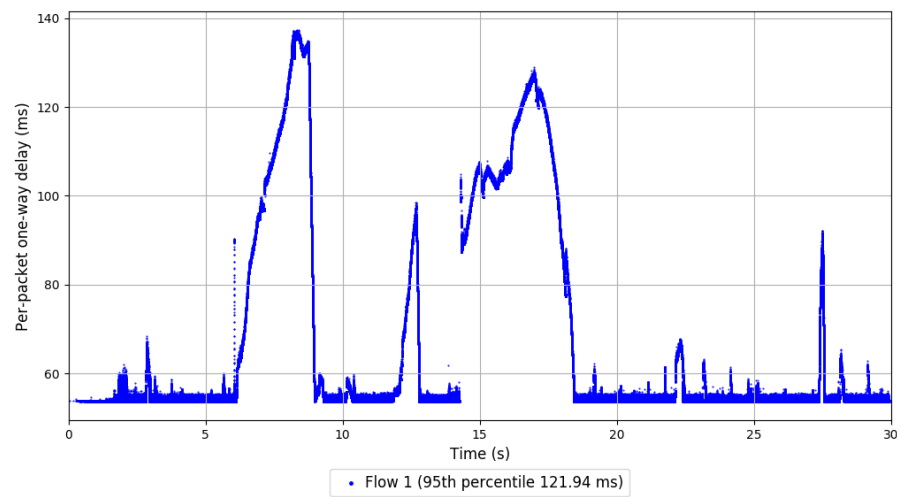
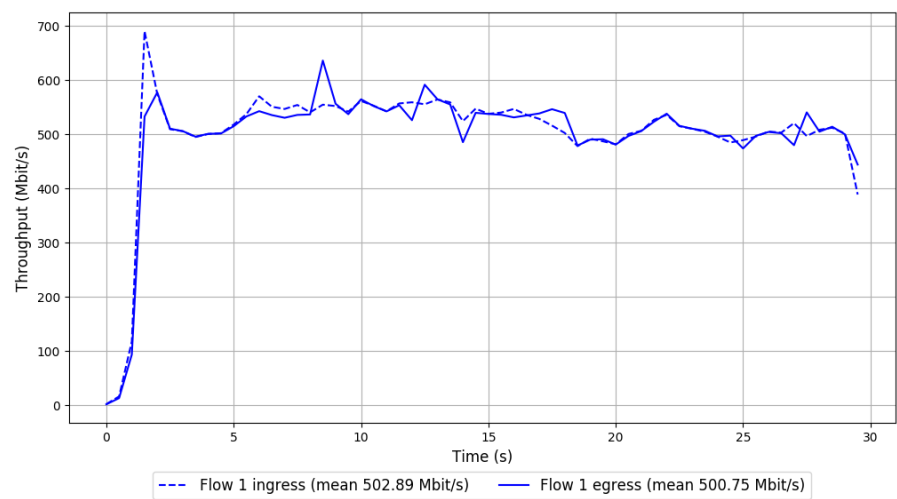


```
Run 4: Statistics of PCC

Start at: 2017-08-17 01:49:34
End at: 2017-08-17 01:50:04

# Below is generated by plot.py at 2017-08-17 04:02:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 500.75 Mbit/s
95th percentile per-packet one-way delay: 121.935 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 500.75 Mbit/s
95th percentile per-packet one-way delay: 121.935 ms
Loss rate: 0.43%
```

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-08-17 01:59:49

End at: 2017-08-17 02:00:19

Below is generated by plot.py at 2017-08-17 04:02:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 523.77 Mbit/s

95th percentile per-packet one-way delay: 176.364 ms

Loss rate: 13.81%

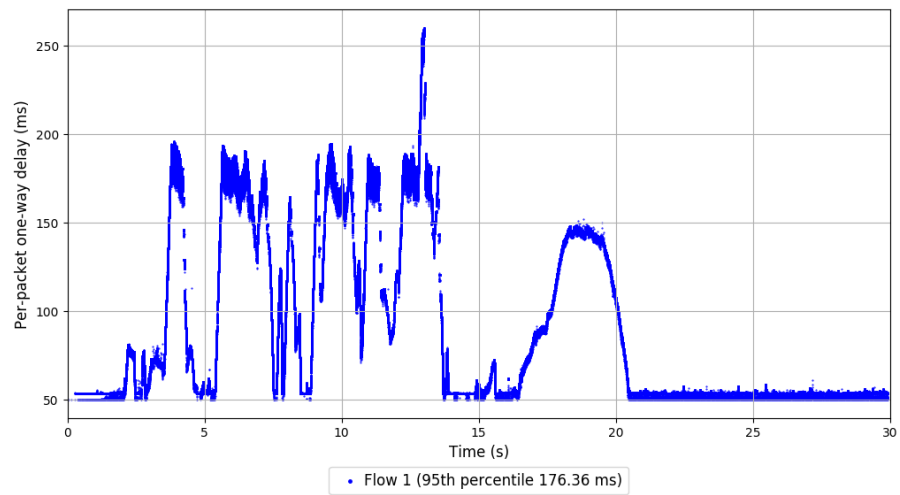
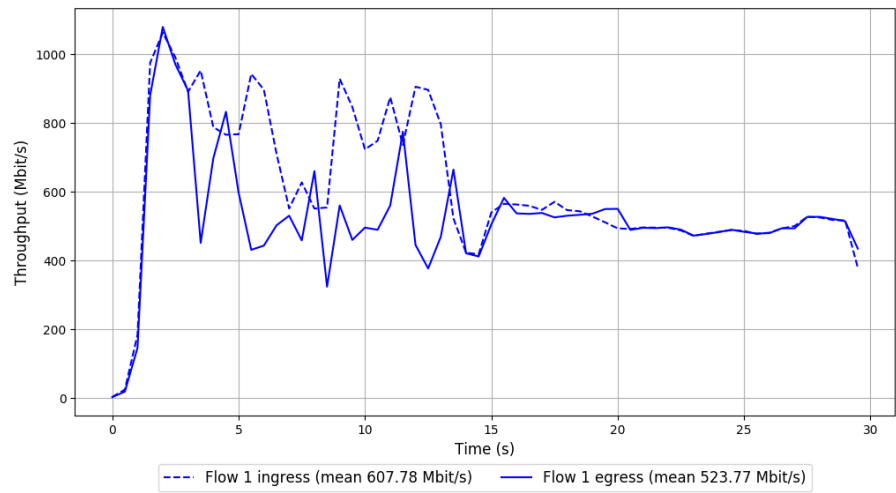
-- Flow 1:

Average throughput: 523.77 Mbit/s

95th percentile per-packet one-way delay: 176.364 ms

Loss rate: 13.81%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-08-17 02:10:05

End at: 2017-08-17 02:10:35

Below is generated by plot.py at 2017-08-17 04:03:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 451.36 Mbit/s

95th percentile per-packet one-way delay: 80.846 ms

Loss rate: 8.45%

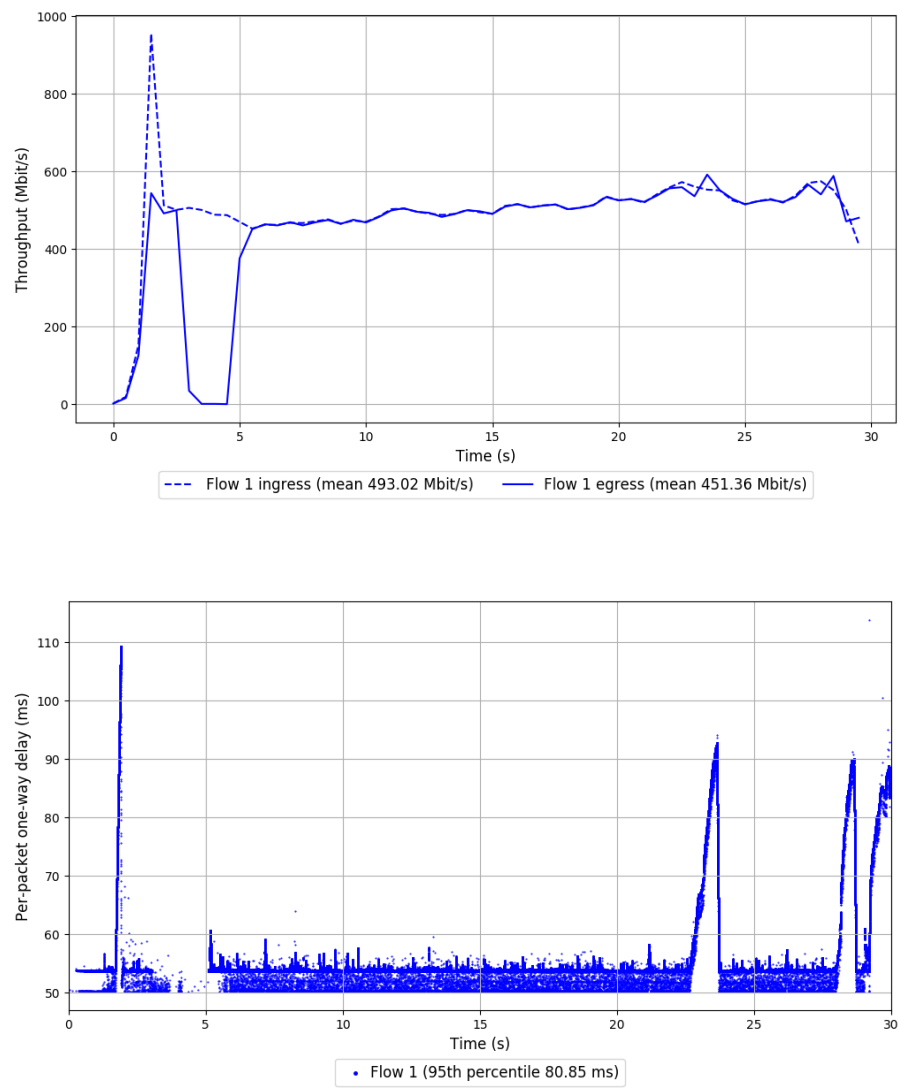
-- Flow 1:

Average throughput: 451.36 Mbit/s

95th percentile per-packet one-way delay: 80.846 ms

Loss rate: 8.45%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-08-17 02:20:13

End at: 2017-08-17 02:20:43

Below is generated by plot.py at 2017-08-17 04:03:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 527.76 Mbit/s

95th percentile per-packet one-way delay: 97.107 ms

Loss rate: 0.61%

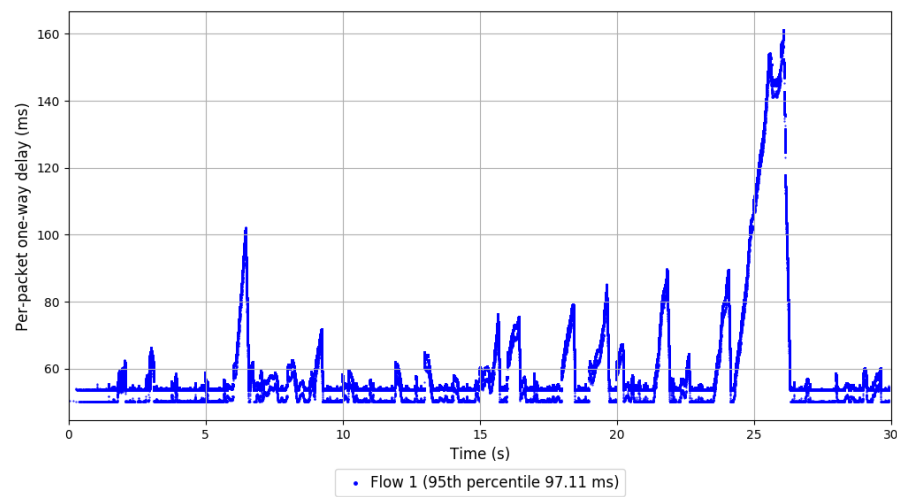
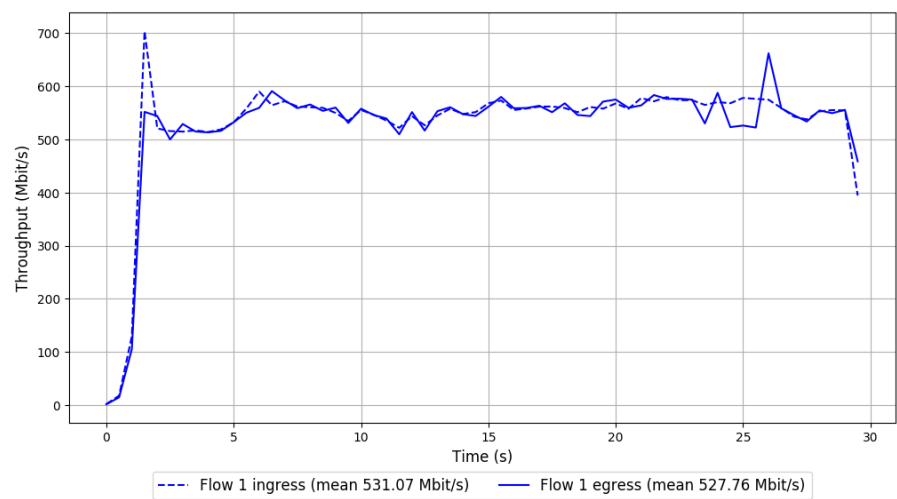
-- Flow 1:

Average throughput: 527.76 Mbit/s

95th percentile per-packet one-way delay: 97.107 ms

Loss rate: 0.61%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-08-17 02:30:42

End at: 2017-08-17 02:31:12

Below is generated by plot.py at 2017-08-17 04:05:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 458.01 Mbit/s

95th percentile per-packet one-way delay: 85.349 ms

Loss rate: 2.67%

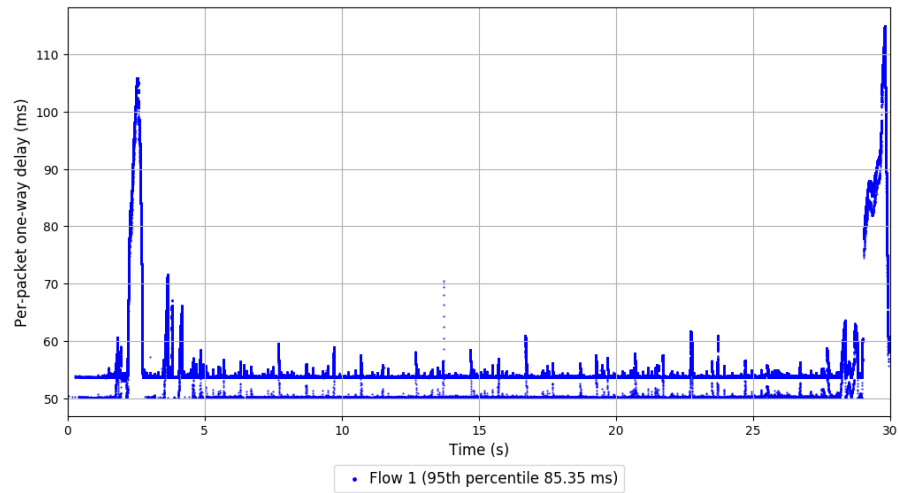
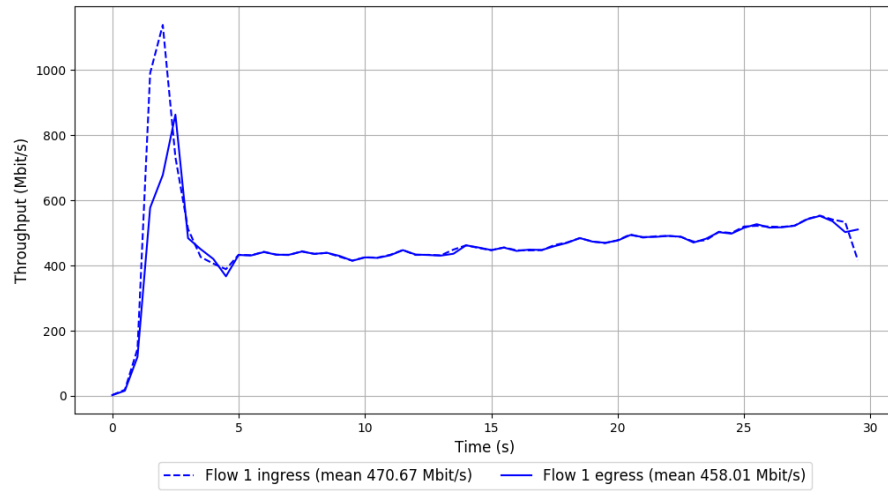
-- Flow 1:

Average throughput: 458.01 Mbit/s

95th percentile per-packet one-way delay: 85.349 ms

Loss rate: 2.67%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-08-17 02:40:59

End at: 2017-08-17 02:41:29

Below is generated by plot.py at 2017-08-17 04:05:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.80 Mbit/s

95th percentile per-packet one-way delay: 53.692 ms

Loss rate: 5.37%

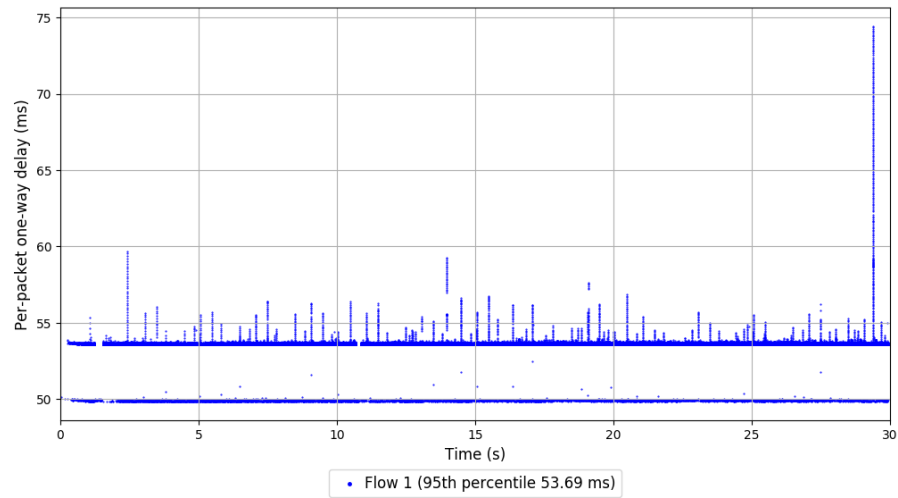
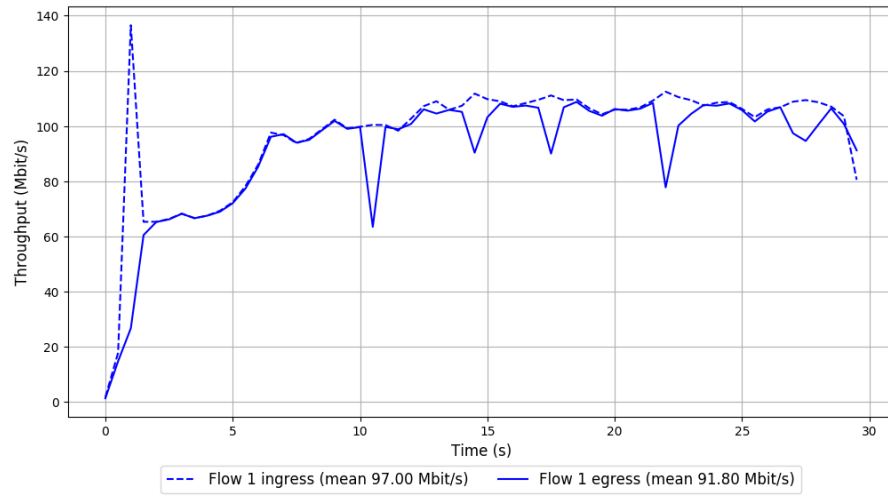
-- Flow 1:

Average throughput: 91.80 Mbit/s

95th percentile per-packet one-way delay: 53.692 ms

Loss rate: 5.37%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-08-17 02:51:09

End at: 2017-08-17 02:51:39

Below is generated by plot.py at 2017-08-17 04:05:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 504.91 Mbit/s

95th percentile per-packet one-way delay: 142.438 ms

Loss rate: 1.88%

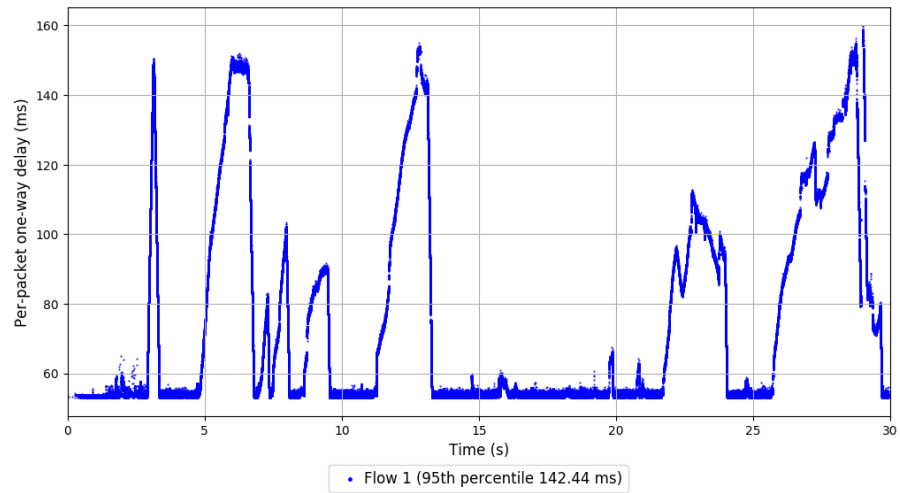
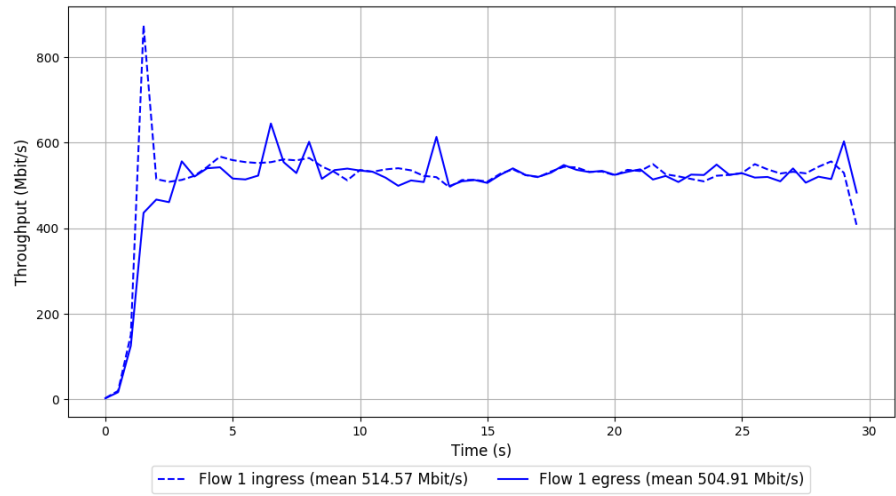
-- Flow 1:

Average throughput: 504.91 Mbit/s

95th percentile per-packet one-way delay: 142.438 ms

Loss rate: 1.88%

Run 10: Report of PCC — Data Link

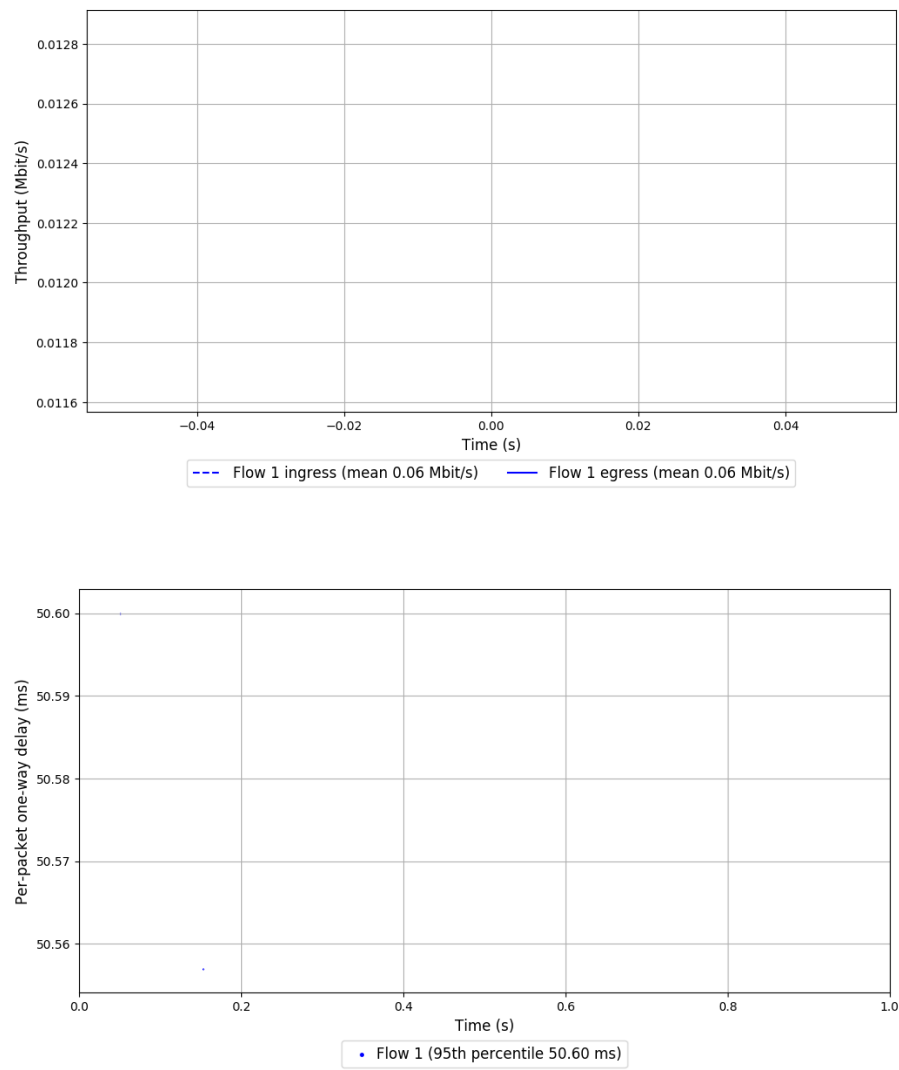


Run 1: Statistics of QUIC Cubic

Start at: 2017-08-17 01:25:17

End at: 2017-08-17 01:25:47

Run 1: Report of QUIC Cubic — Data Link

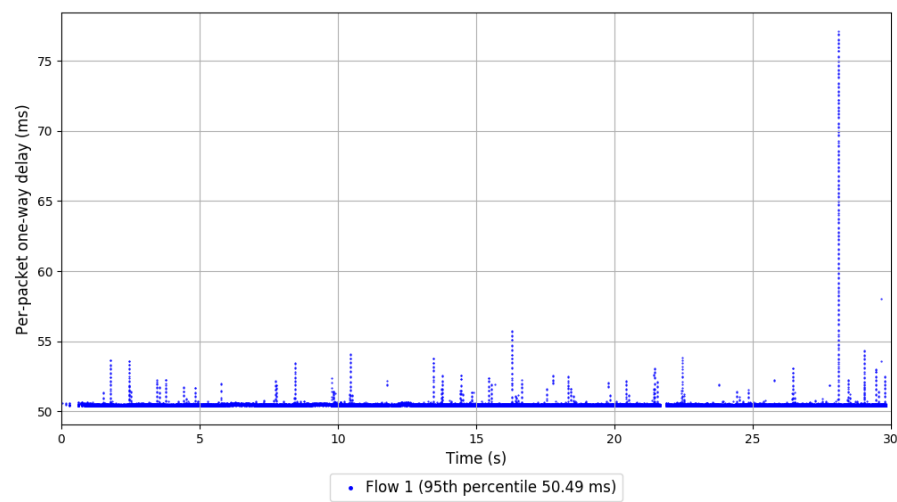
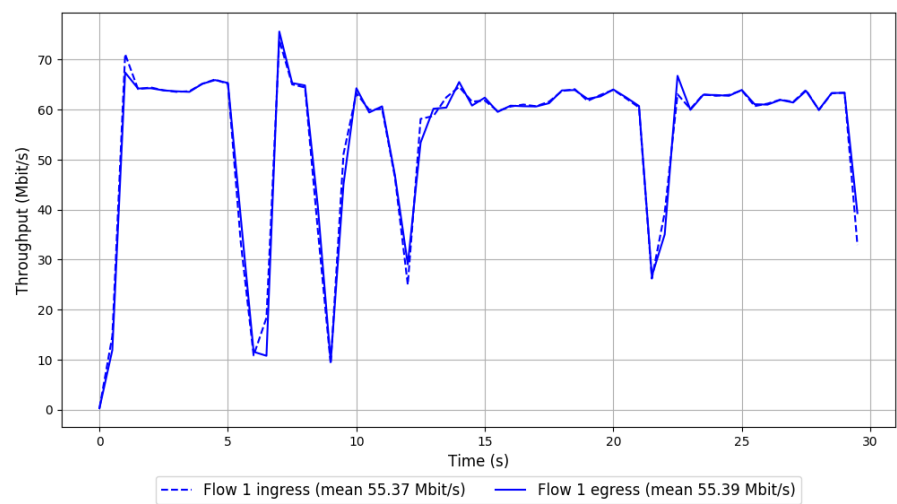


```
Run 2: Statistics of QUIC Cubic

Start at: 2017-08-17 01:35:14
End at: 2017-08-17 01:35:44

# Below is generated by plot.py at 2017-08-17 04:05:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.39 Mbit/s
95th percentile per-packet one-way delay: 50.490 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.39 Mbit/s
95th percentile per-packet one-way delay: 50.490 ms
Loss rate: 0.00%
```

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-08-17 01:45:45

End at: 2017-08-17 01:46:15

Below is generated by plot.py at 2017-08-17 04:05:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.16 Mbit/s

95th percentile per-packet one-way delay: 50.189 ms

Loss rate: 0.00%

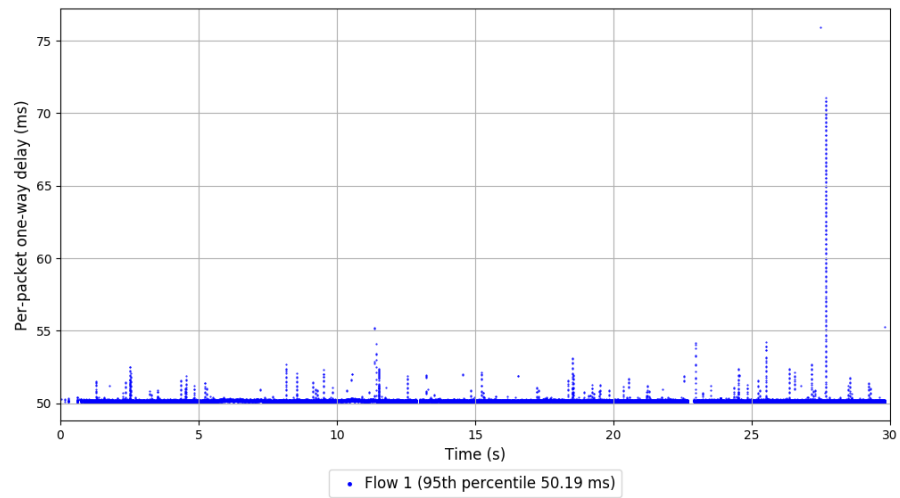
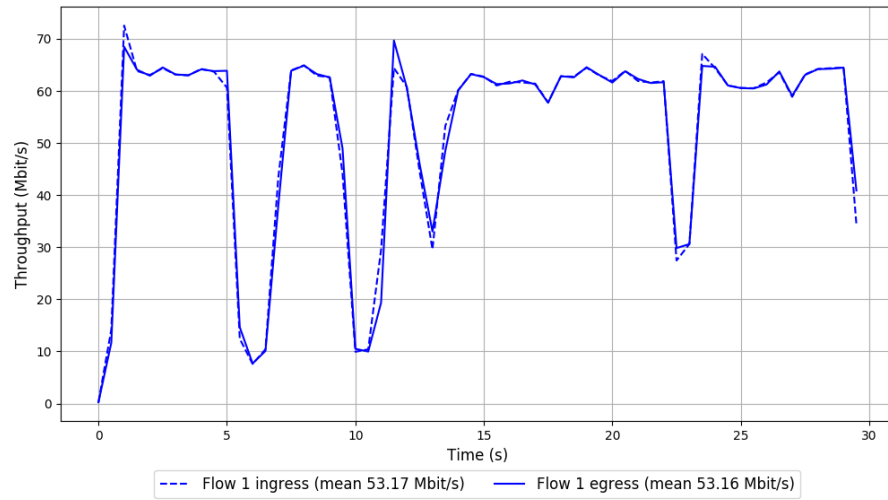
-- Flow 1:

Average throughput: 53.16 Mbit/s

95th percentile per-packet one-way delay: 50.189 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-08-17 01:56:00

End at: 2017-08-17 01:56:30

Below is generated by plot.py at 2017-08-17 04:05:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.40 Mbit/s

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

Loss rate: 0.00%

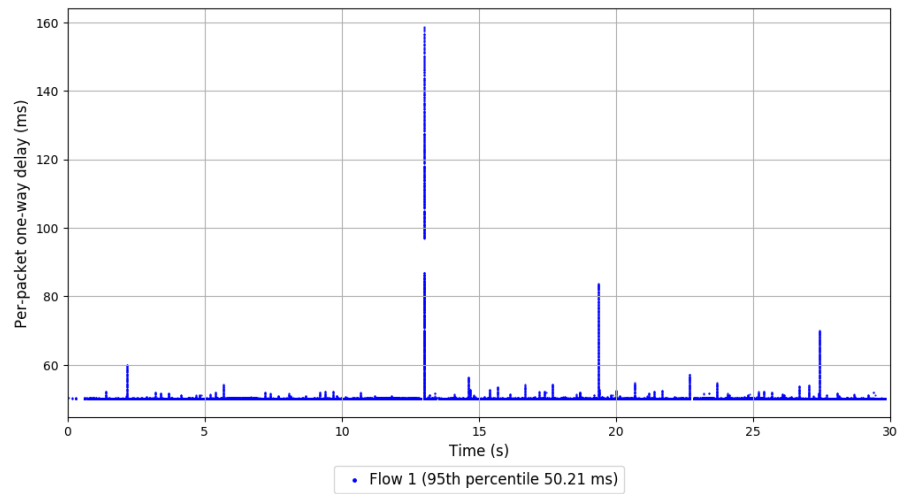
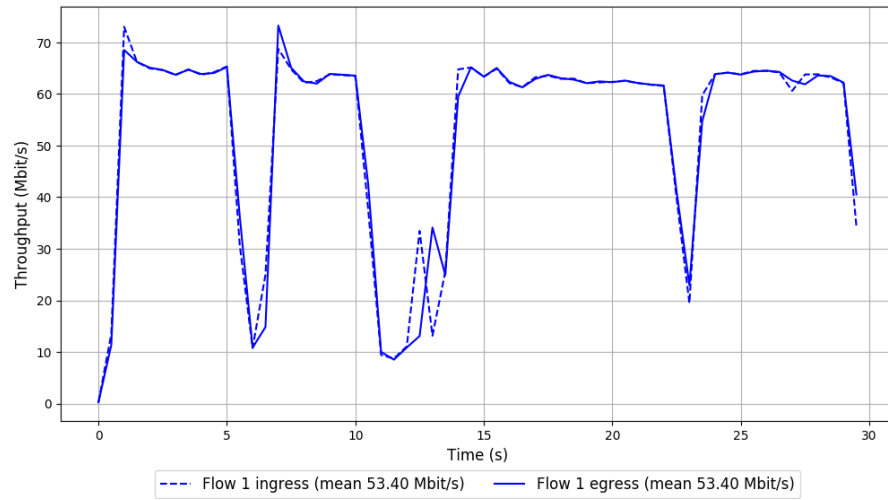
-- Flow 1:

Average throughput: 53.40 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-08-17 02:06:17

End at: 2017-08-17 02:06:47

Below is generated by plot.py at 2017-08-17 04:06:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.17 Mbit/s

95th percentile per-packet one-way delay: 50.275 ms

Loss rate: 0.00%

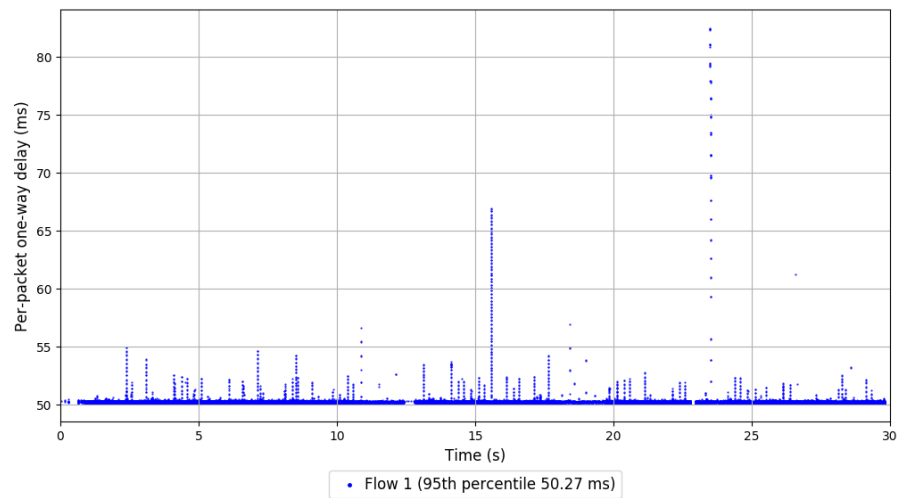
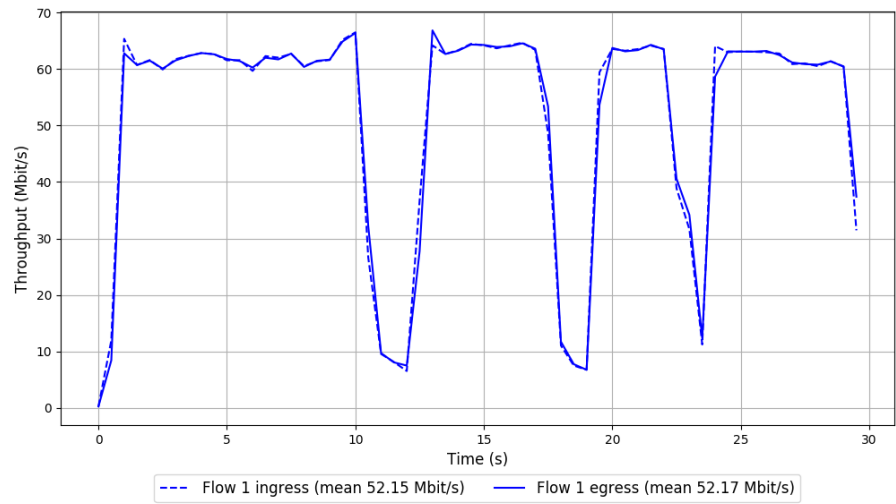
-- Flow 1:

Average throughput: 52.17 Mbit/s

95th percentile per-packet one-way delay: 50.275 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-08-17 02:16:23

End at: 2017-08-17 02:16:53

Below is generated by plot.py at 2017-08-17 04:06:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.99 Mbit/s

95th percentile per-packet one-way delay: 53.749 ms

Loss rate: 0.00%

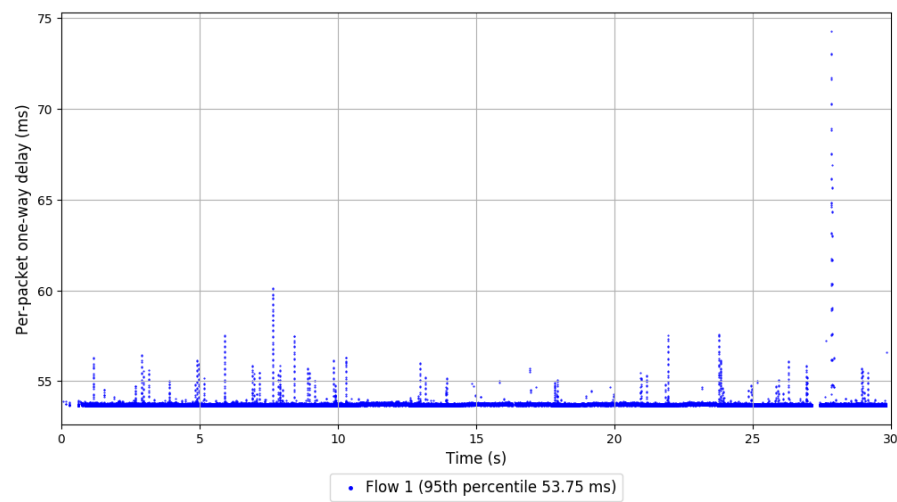
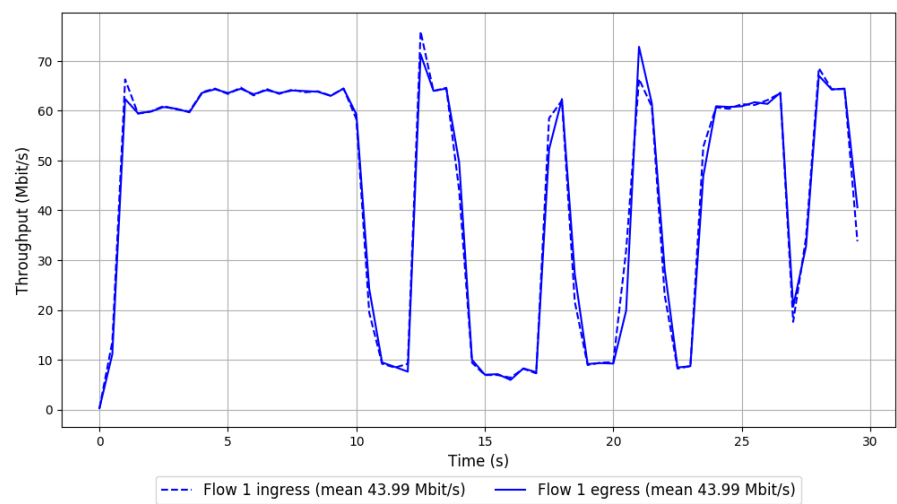
-- Flow 1:

Average throughput: 43.99 Mbit/s

95th percentile per-packet one-way delay: 53.749 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link

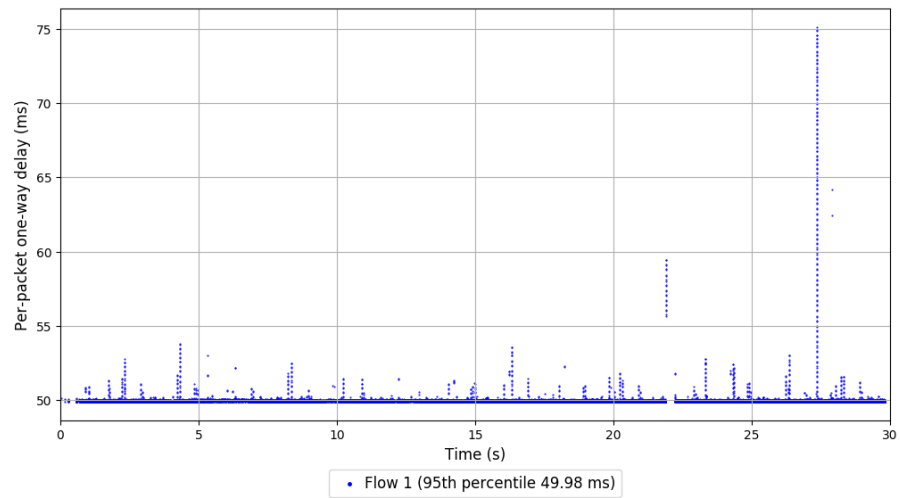
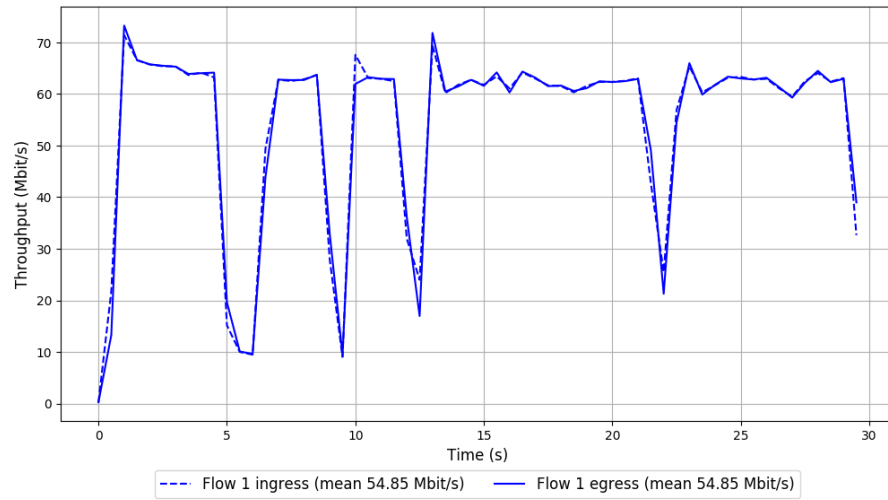


```
Run 7: Statistics of QUIC Cubic

Start at: 2017-08-17 02:26:27
End at: 2017-08-17 02:26:57

# Below is generated by plot.py at 2017-08-17 04:06:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.85 Mbit/s
95th percentile per-packet one-way delay: 49.978 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 54.85 Mbit/s
95th percentile per-packet one-way delay: 49.978 ms
Loss rate: 0.00%
```


Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-08-17 02:37:08

End at: 2017-08-17 02:37:38

Below is generated by plot.py at 2017-08-17 04:06:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.46 Mbit/s

95th percentile per-packet one-way delay: 53.687 ms

Loss rate: 0.00%

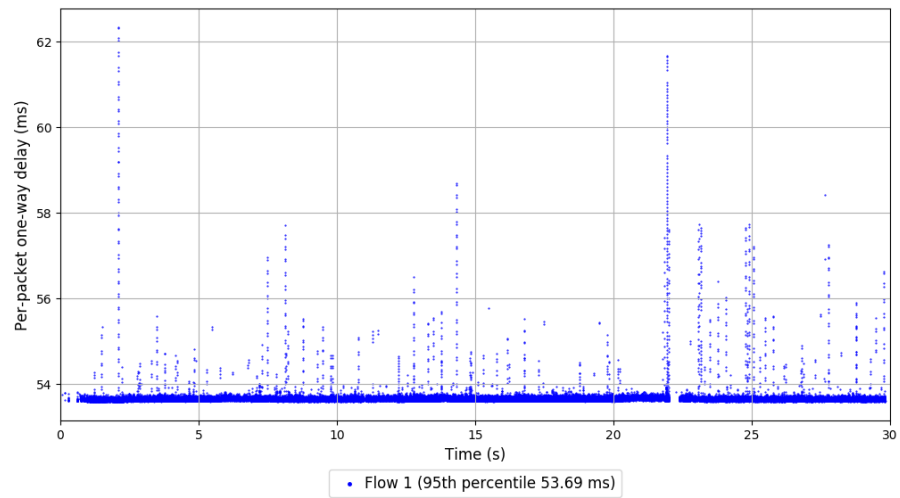
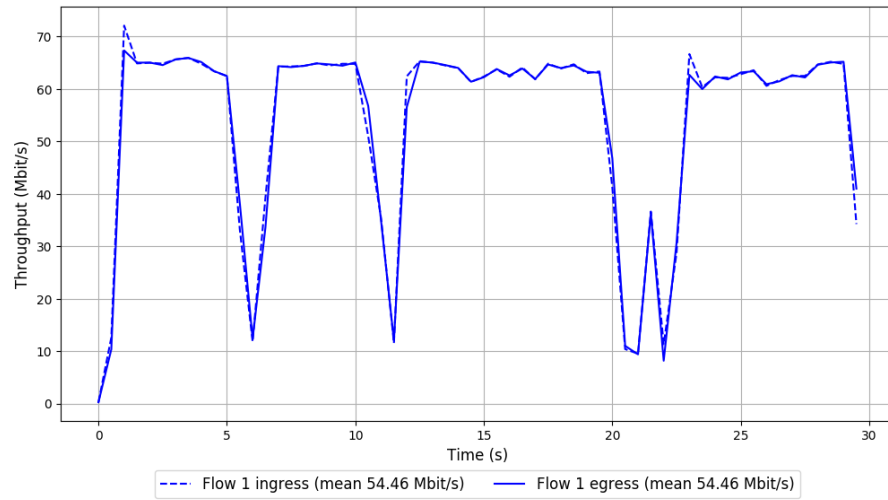
-- Flow 1:

Average throughput: 54.46 Mbit/s

95th percentile per-packet one-way delay: 53.687 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-08-17 02:47:18

End at: 2017-08-17 02:47:48

Below is generated by plot.py at 2017-08-17 04:06:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.70 Mbit/s

95th percentile per-packet one-way delay: 49.916 ms

Loss rate: 0.00%

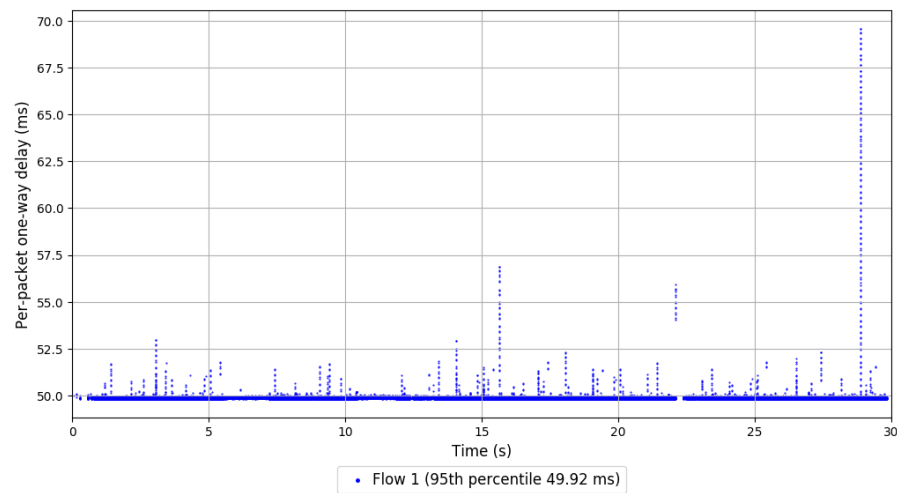
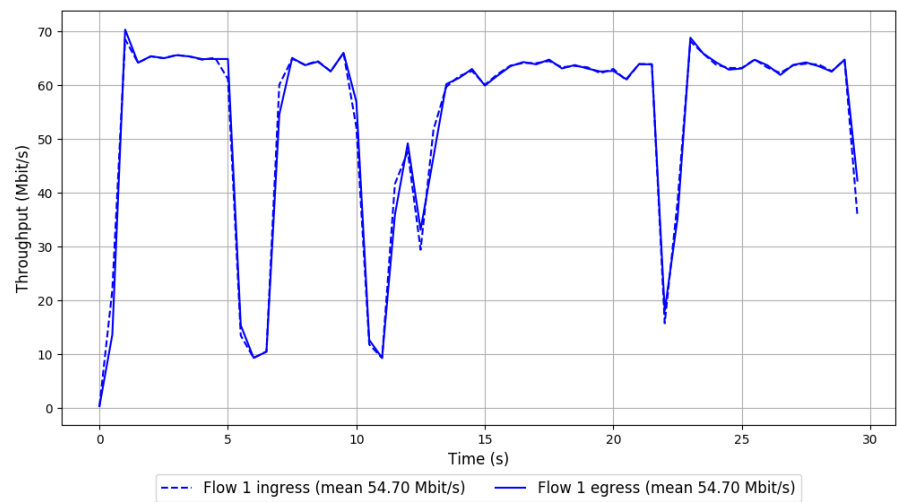
-- Flow 1:

Average throughput: 54.70 Mbit/s

95th percentile per-packet one-way delay: 49.916 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

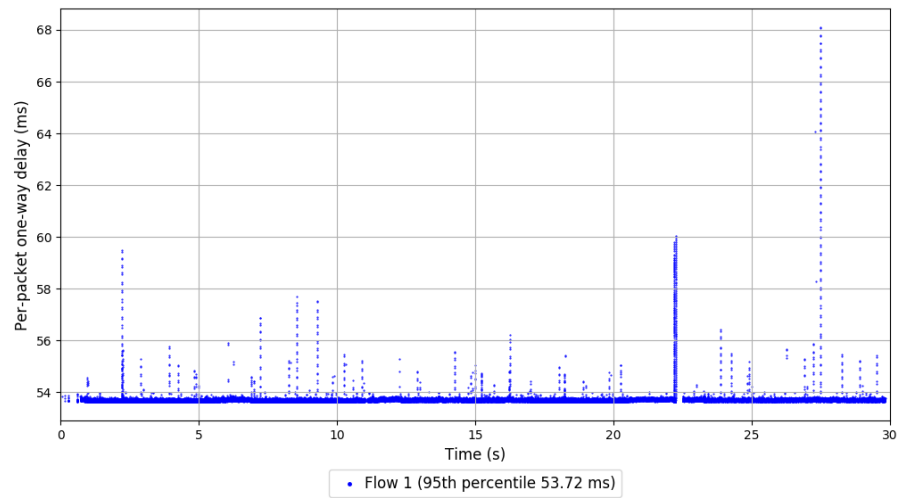
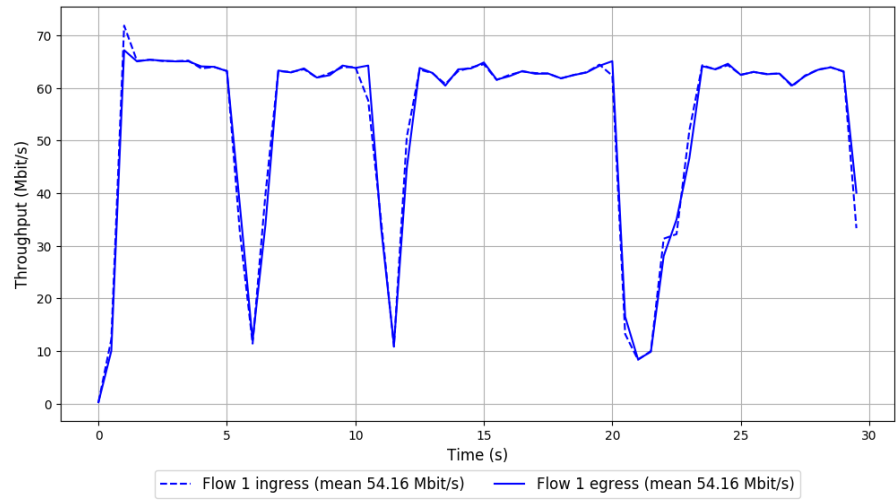


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-08-17 02:57:29
End at: 2017-08-17 02:57:59

# Below is generated by plot.py at 2017-08-17 04:06:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.16 Mbit/s
95th percentile per-packet one-way delay: 53.719 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 54.16 Mbit/s
95th percentile per-packet one-way delay: 53.719 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of Saturator

Start at: 2017-08-17 01:18:09

End at: 2017-08-17 01:18:39

Below is generated by plot.py at 2017-08-17 04:06:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.81 Mbit/s

95th percentile per-packet one-way delay: 54.412 ms

Loss rate: 0.00%

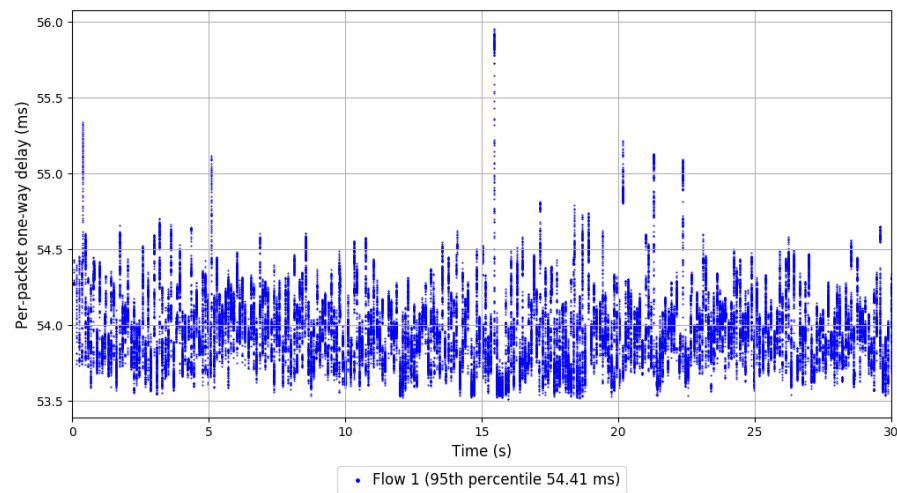
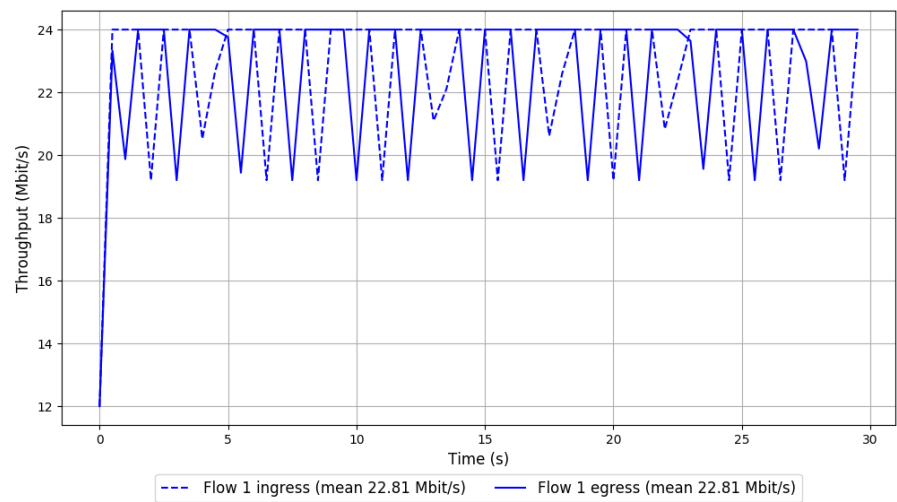
-- Flow 1:

Average throughput: 22.81 Mbit/s

95th percentile per-packet one-way delay: 54.412 ms

Loss rate: 0.00%

Run 1: Report of Saturator — Data Link



Run 2: Statistics of Saturator

Start at: 2017-08-17 01:27:47

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

Below is generated by plot.py at 2017-08-17 04:06:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.15 Mbit/s

95th percentile per-packet one-way delay: 54.382 ms

Loss rate: 0.00%

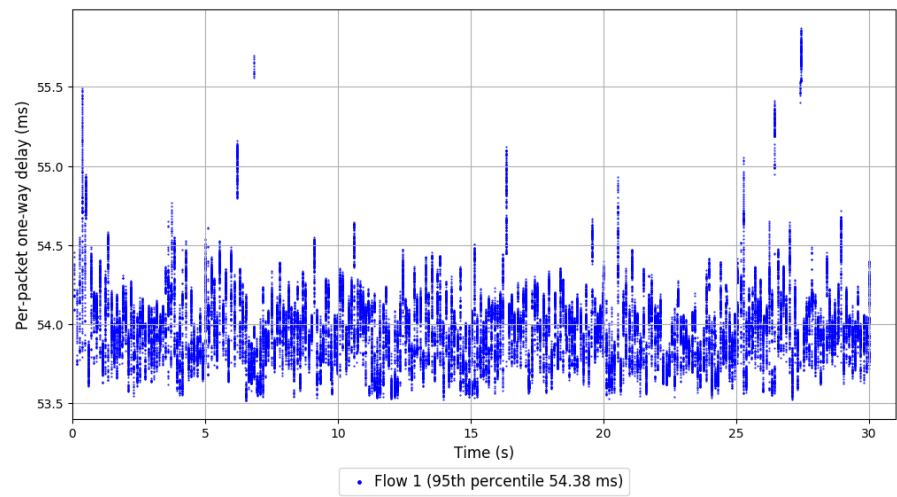
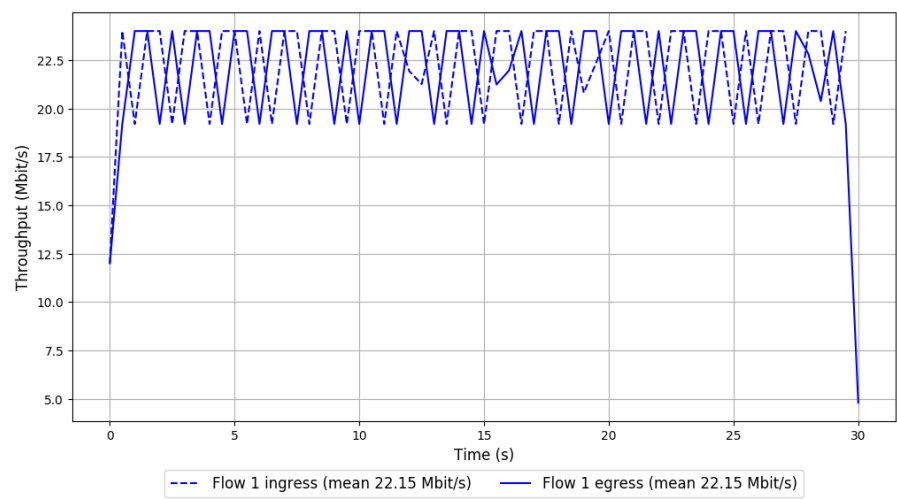
-- Flow 1:

Average throughput: 22.15 Mbit/s

95th percentile per-packet one-way delay: 54.382 ms

Loss rate: 0.00%

Run 2: Report of Saturator — Data Link



Run 3: Statistics of Saturator

Start at: 2017-08-17 01:37:49

End at: 2017-08-17 01:38:19

Below is generated by plot.py at 2017-08-17 04:06:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.77 Mbit/s

95th percentile per-packet one-way delay: 54.432 ms

Loss rate: 0.08%

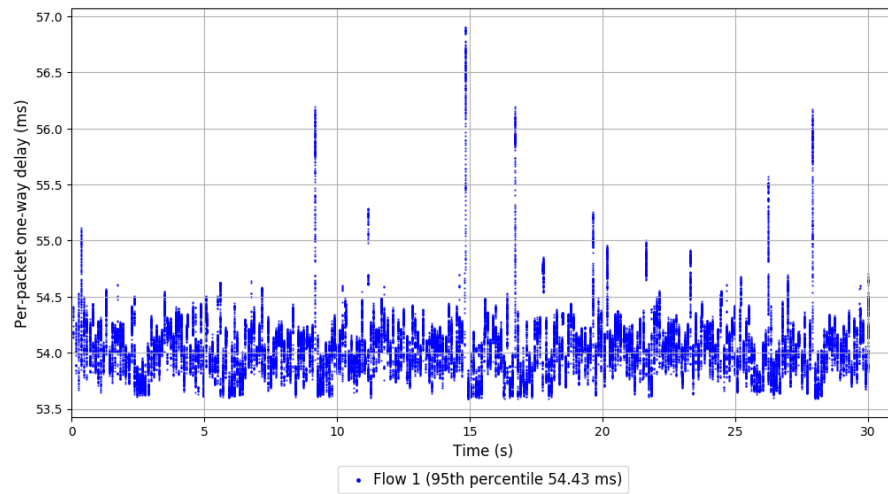
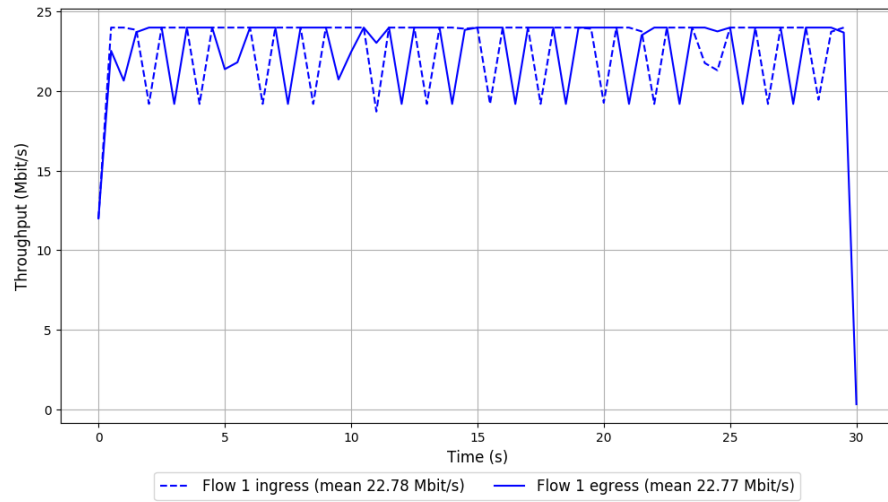
-- Flow 1:

Average throughput: 22.77 Mbit/s

95th percentile per-packet one-way delay: 54.432 ms

Loss rate: 0.08%

Run 3: Report of Saturator — Data Link



Run 4: Statistics of Saturator

Start at: 2017-08-17 01:48:18

End at: 2017-08-17 01:48:48

Below is generated by plot.py at 2017-08-17 04:06:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.72 Mbit/s

95th percentile per-packet one-way delay: 54.263 ms

Loss rate: 0.61%

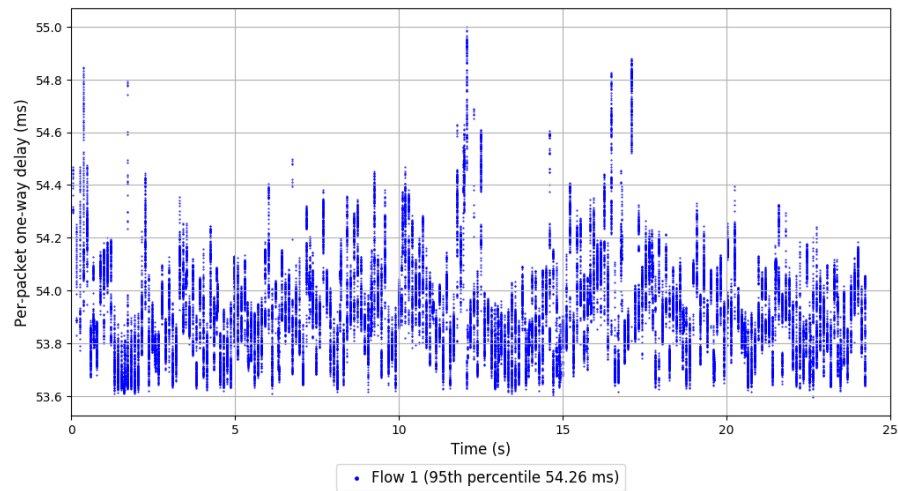
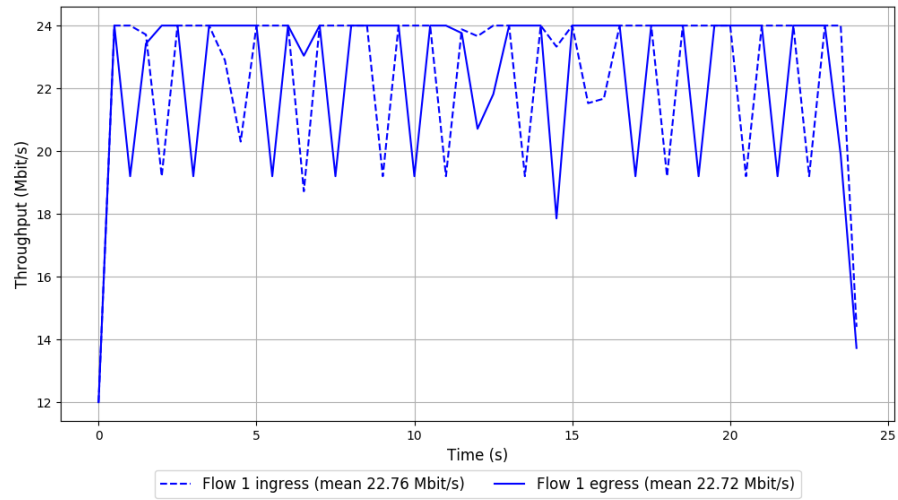
-- Flow 1:

Average throughput: 22.72 Mbit/s

95th percentile per-packet one-way delay: 54.263 ms

Loss rate: 0.61%

Run 4: Report of Saturator — Data Link



Run 5: Statistics of Saturator

Start at: 2017-08-17 01:58:33

End at: 2017-08-17 01:59:03

Below is generated by plot.py at 2017-08-17 04:06:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.06 Mbit/s

95th percentile per-packet one-way delay: 54.267 ms

Loss rate: 0.04%

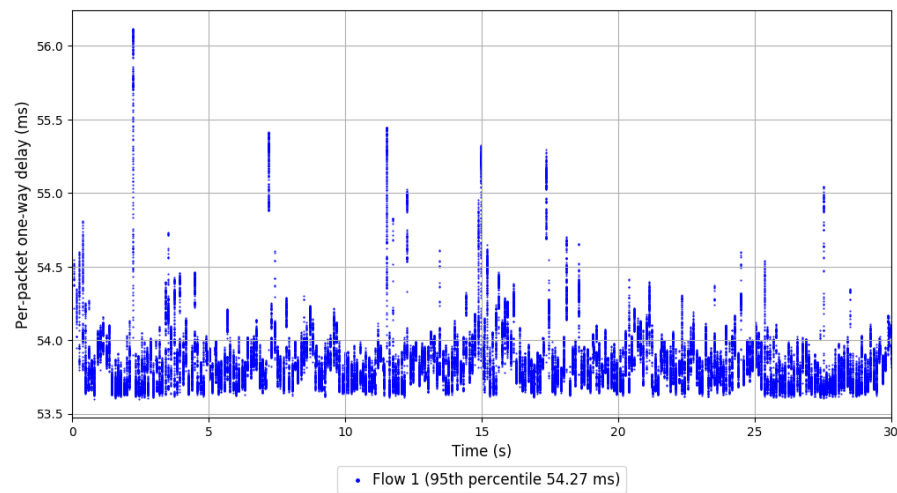
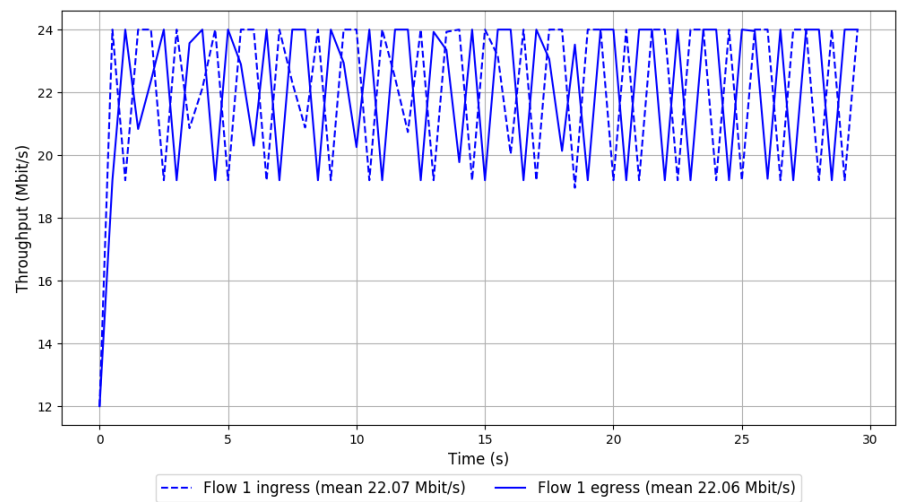
-- Flow 1:

Average throughput: 22.06 Mbit/s

95th percentile per-packet one-way delay: 54.267 ms

Loss rate: 0.04%

Run 5: Report of Saturator — Data Link

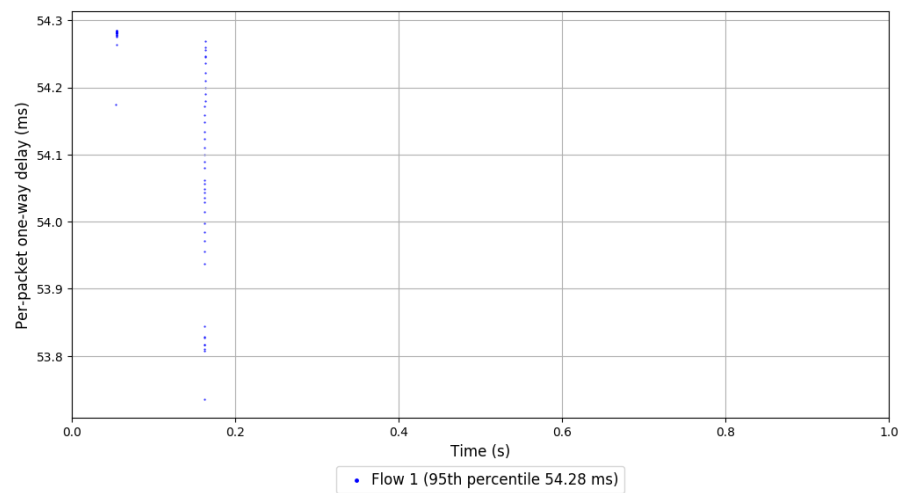
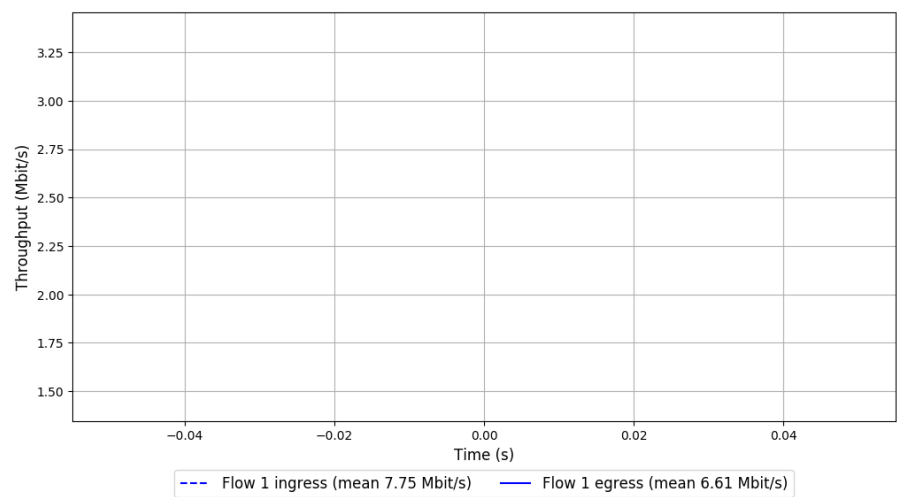


Run 6: Statistics of Saturator

Start at: 2017-08-17 02:08:52

End at: 2017-08-17 02:09:22

Run 6: Report of Saturator — Data Link

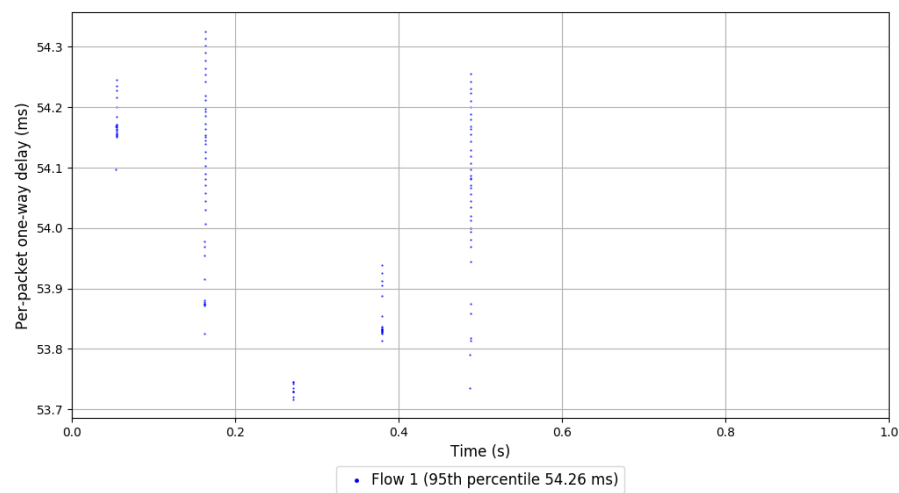
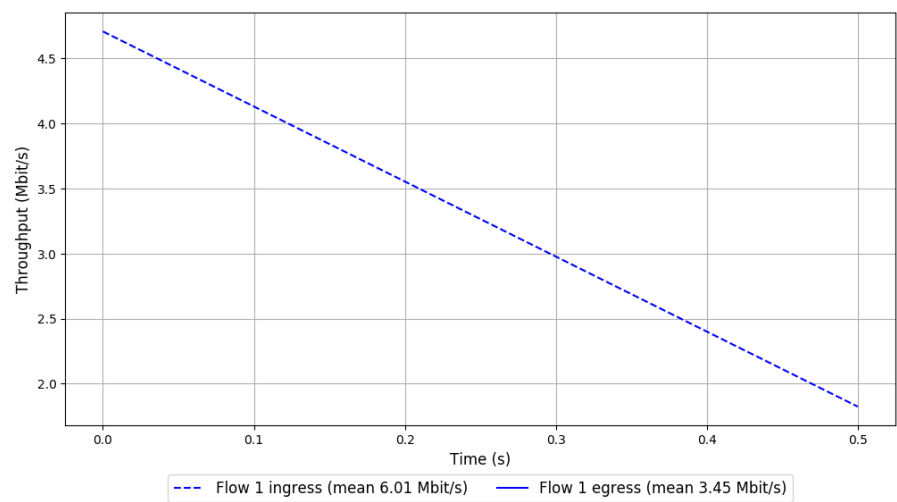


Run 7: Statistics of Saturator

Start at: 2017-08-17 02:18:59

End at: 2017-08-17 02:19:29

Run 7: Report of Saturator — Data Link



Run 8: Statistics of Saturator

Start at: 2017-08-17 02:29:01

End at: 2017-08-17 02:29:31

Below is generated by plot.py at 2017-08-17 04:06:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.68 Mbit/s

95th percentile per-packet one-way delay: 54.458 ms

Loss rate: 0.30%

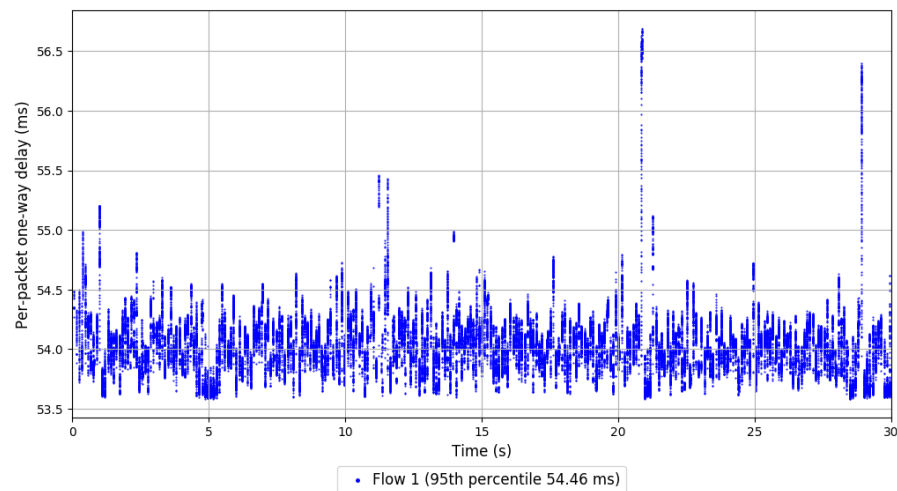
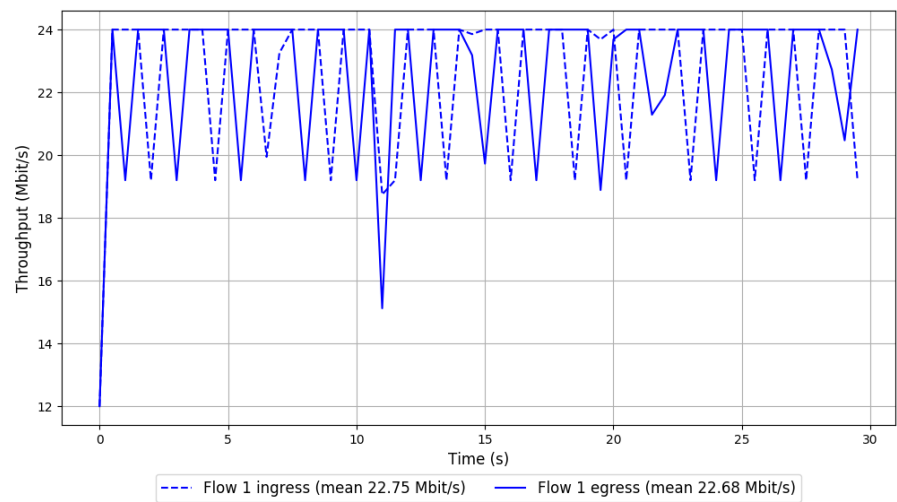
-- Flow 1:

Average throughput: 22.68 Mbit/s

95th percentile per-packet one-way delay: 54.458 ms

Loss rate: 0.30%

Run 8: Report of Saturator — Data Link

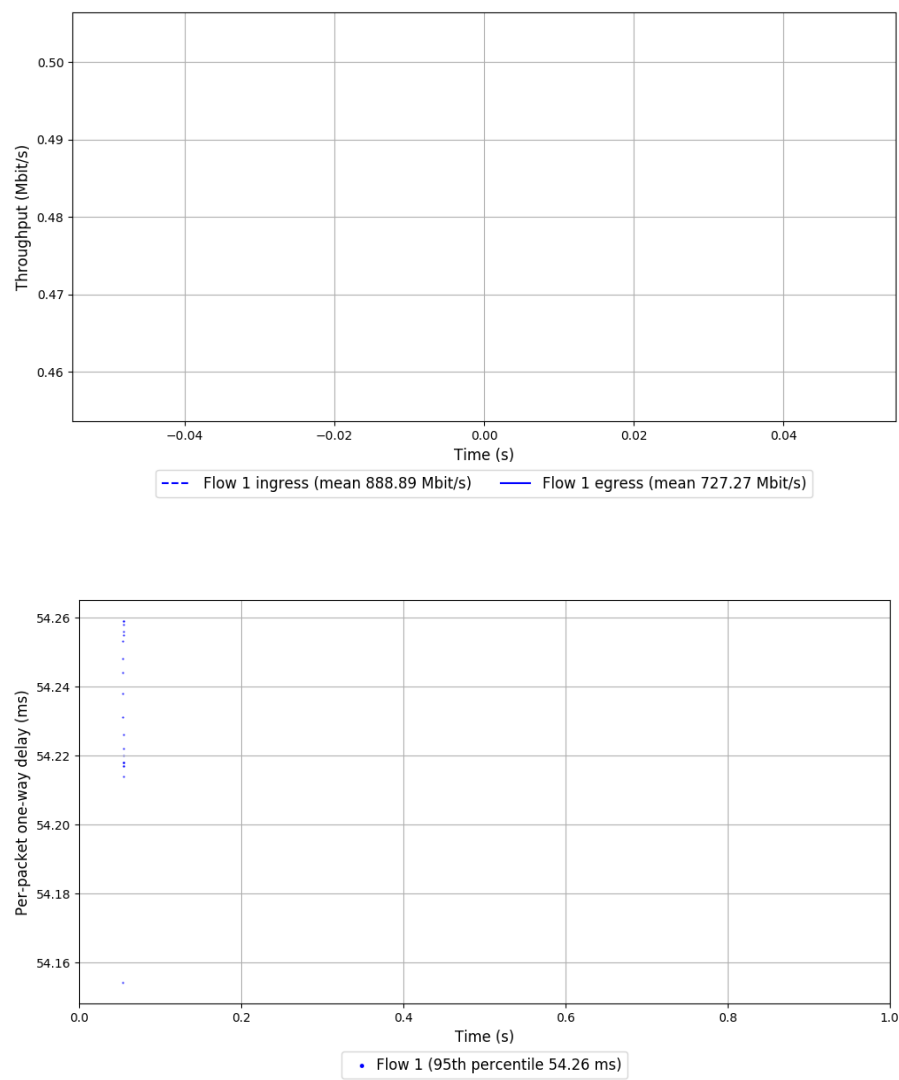


Run 9: Statistics of Saturator

Start at: 2017-08-17 02:39:45

End at: 2017-08-17 02:40:15

Run 9: Report of Saturator — Data Link



Run 10: Statistics of Saturator

Start at: 2017-08-17 02:49:53

End at: 2017-08-17 02:50:23

Below is generated by plot.py at 2017-08-17 04:06:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.31 Mbit/s

95th percentile per-packet one-way delay: 54.845 ms

Loss rate: 0.01%

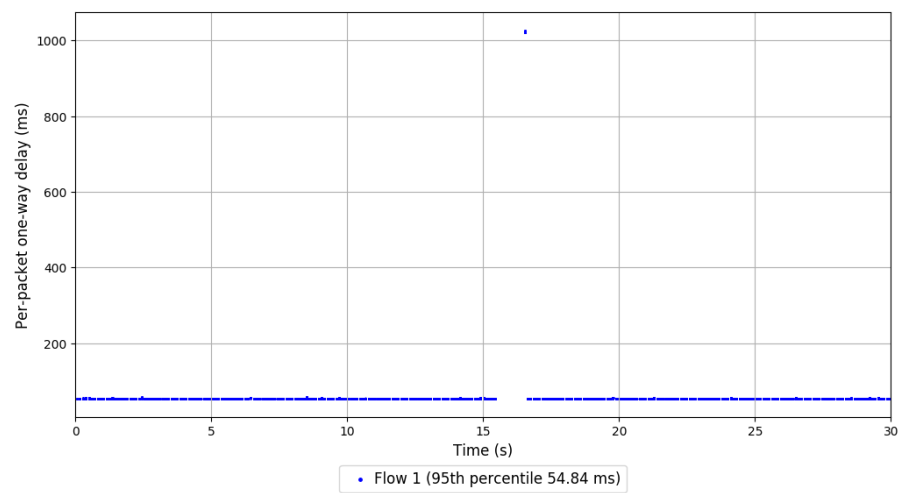
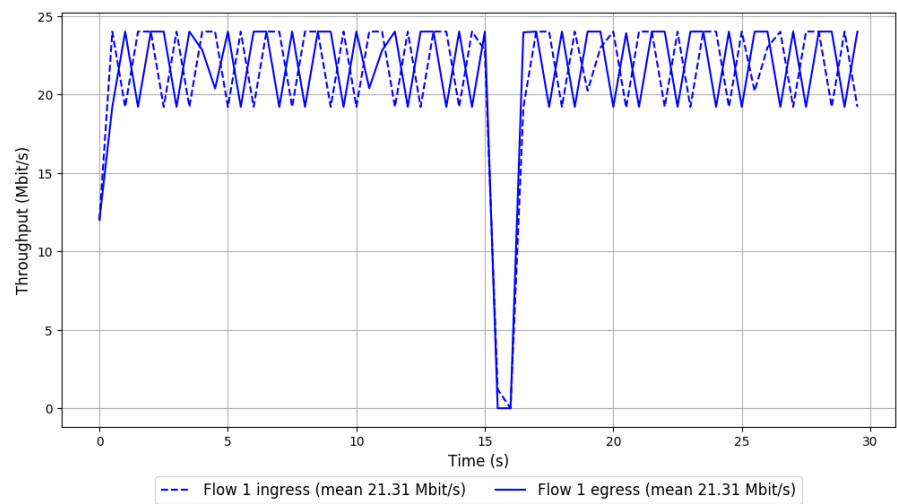
-- Flow 1:

Average throughput: 21.31 Mbit/s

95th percentile per-packet one-way delay: 54.845 ms

Loss rate: 0.01%

Run 10: Report of Saturator — Data Link

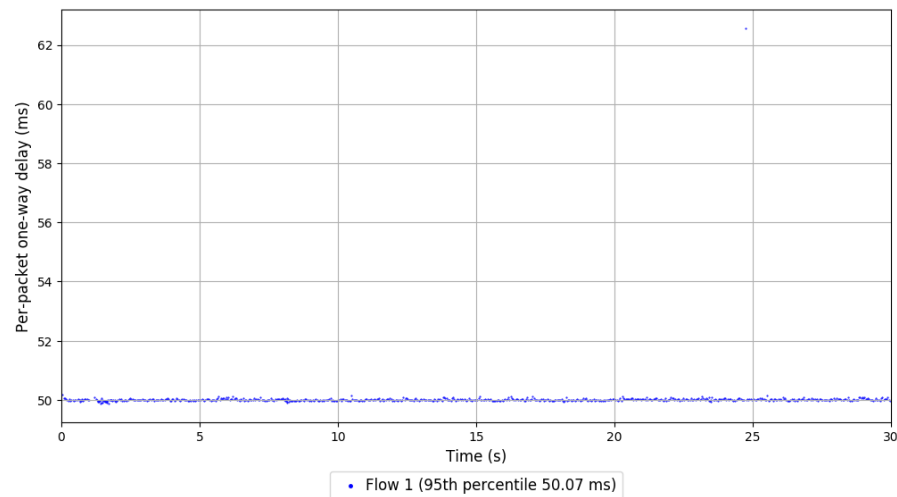
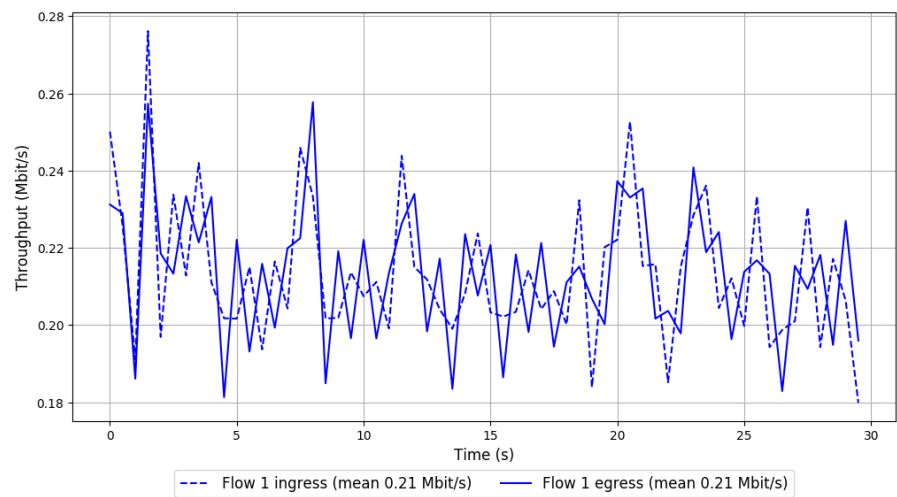


```
Run 1: Statistics of SCReAM

Start at: 2017-08-17 01:22:10
End at: 2017-08-17 01:22:40

# Below is generated by plot.py at 2017-08-17 04:06:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.073 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.073 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

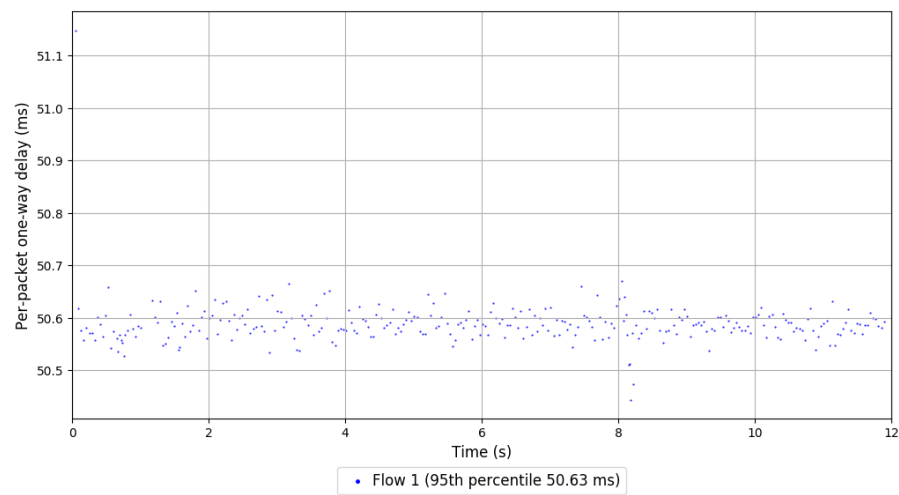
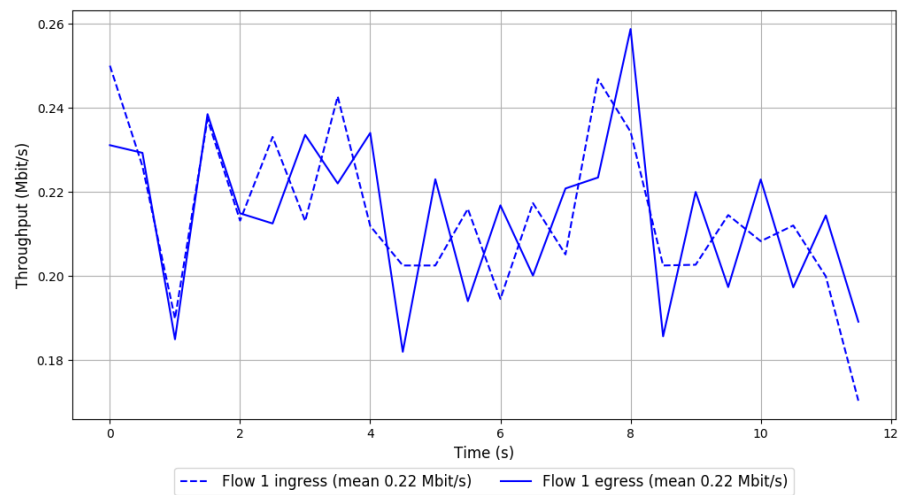


Run 2: Statistics of SReAM

Start at: 2017-08-17 01:31:53

End at: 2017-08-17 01:32:23

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-08-17 01:42:24

End at: 2017-08-17 01:42:54

Below is generated by plot.py at 2017-08-17 04:06:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.246 ms

Loss rate: 0.00%

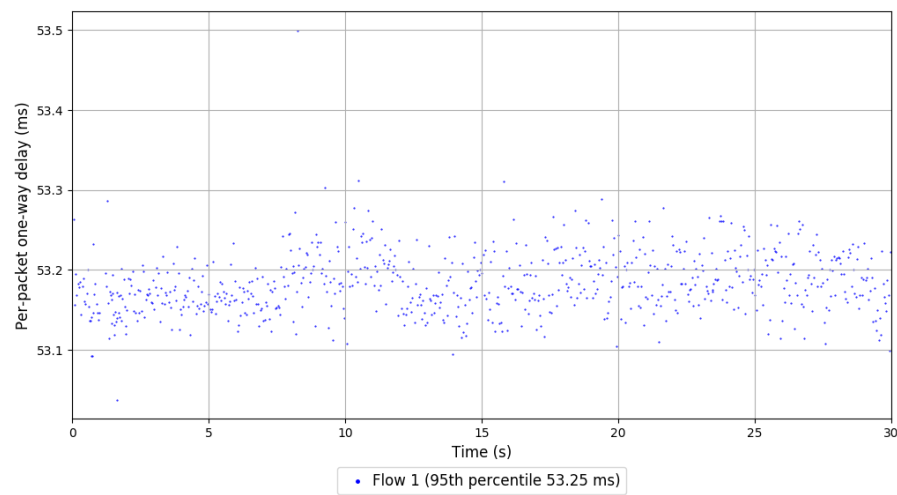
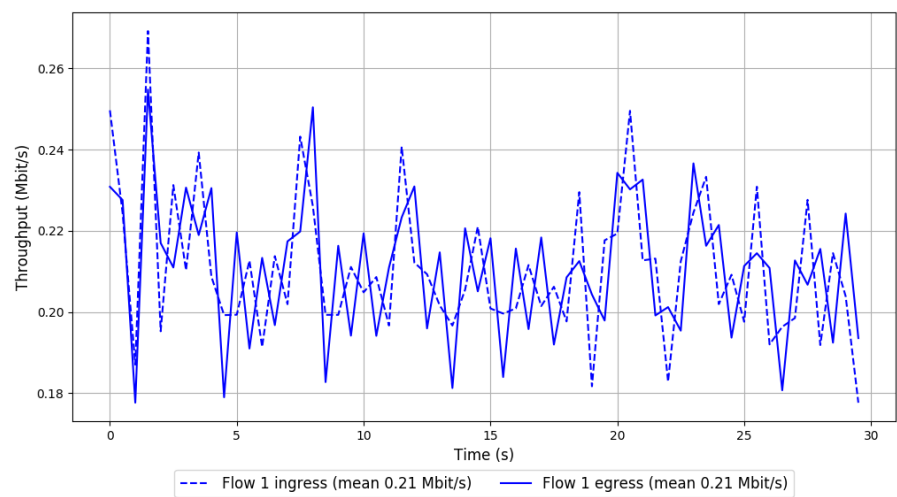
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.246 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-08-17 01:52:31

End at: 2017-08-17 01:53:01

Below is generated by plot.py at 2017-08-17 04:06:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.768 ms

Loss rate: 0.00%

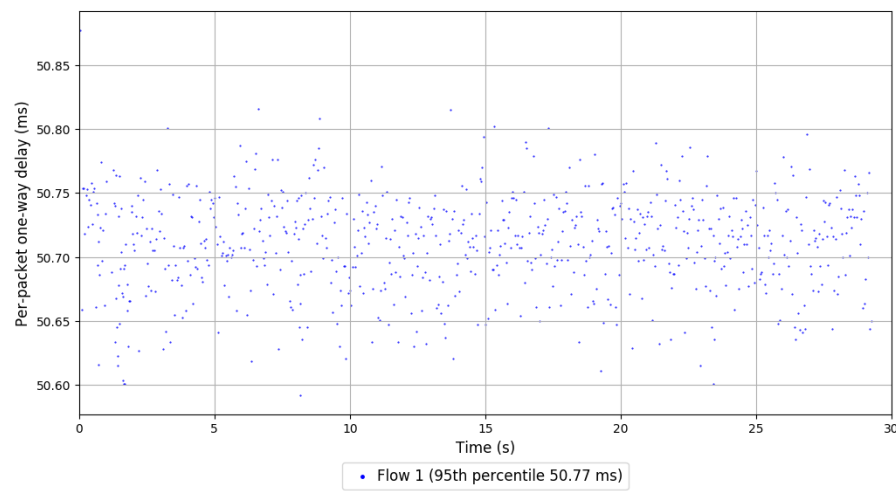
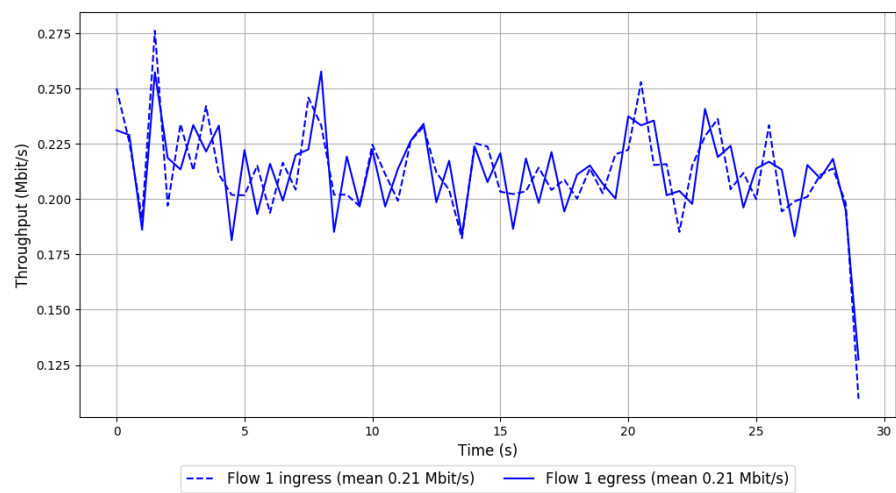
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.768 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-08-17 02:02:55

End at: 2017-08-17 02:03:25

Below is generated by plot.py at 2017-08-17 04:06:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.297 ms

Loss rate: 0.00%

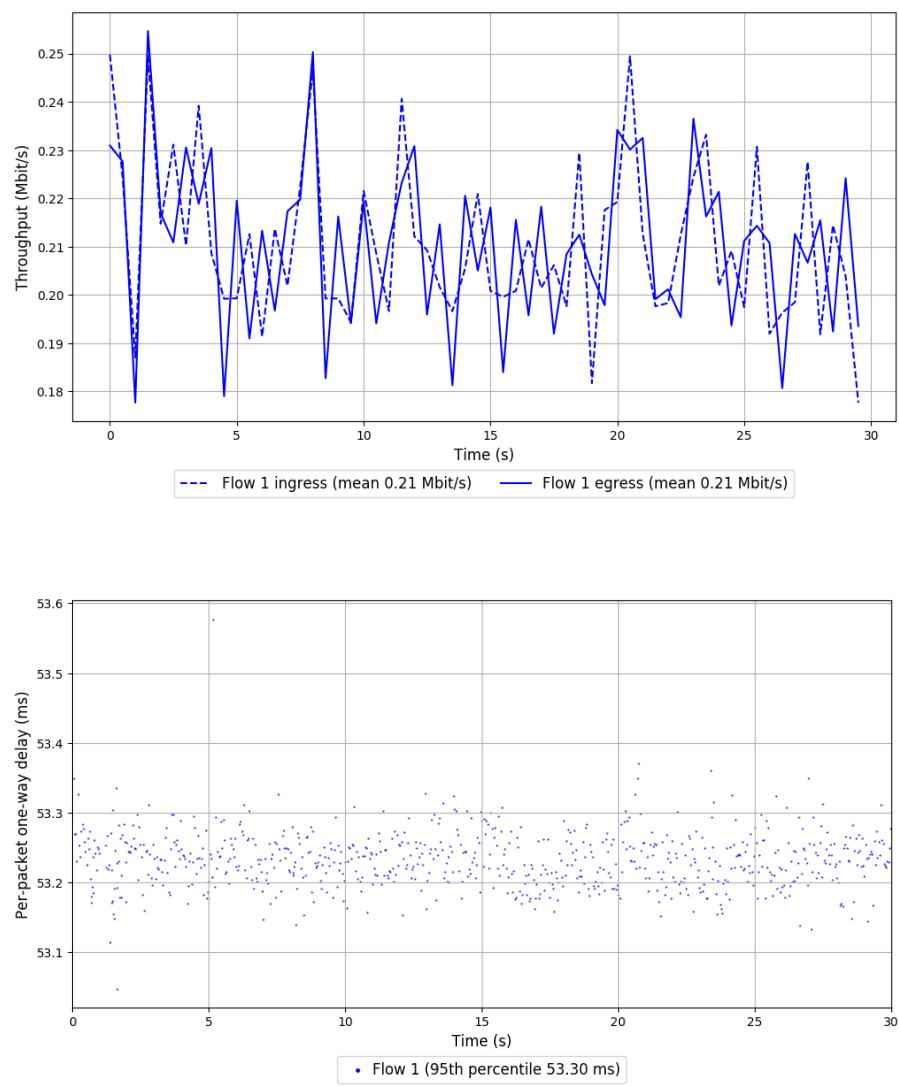
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.297 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-08-17 02:13:16

End at: 2017-08-17 02:13:46

Below is generated by plot.py at 2017-08-17 04:06:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.102 ms

Loss rate: 0.00%

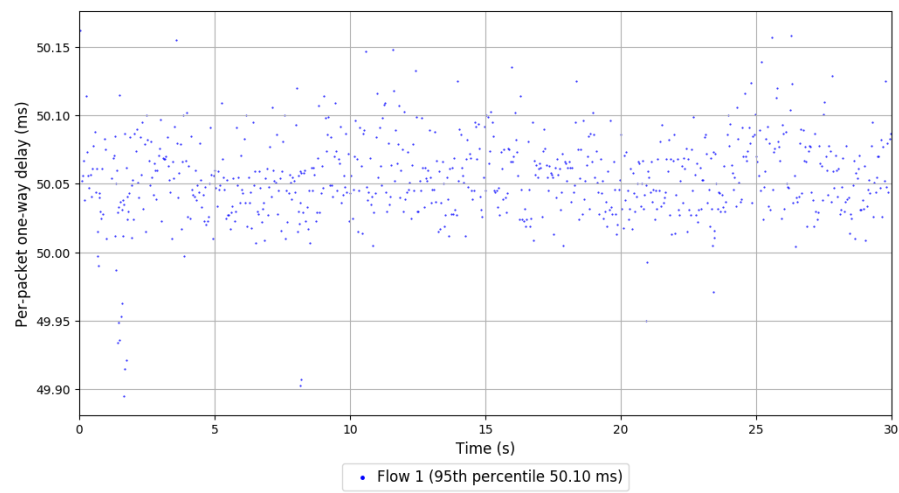
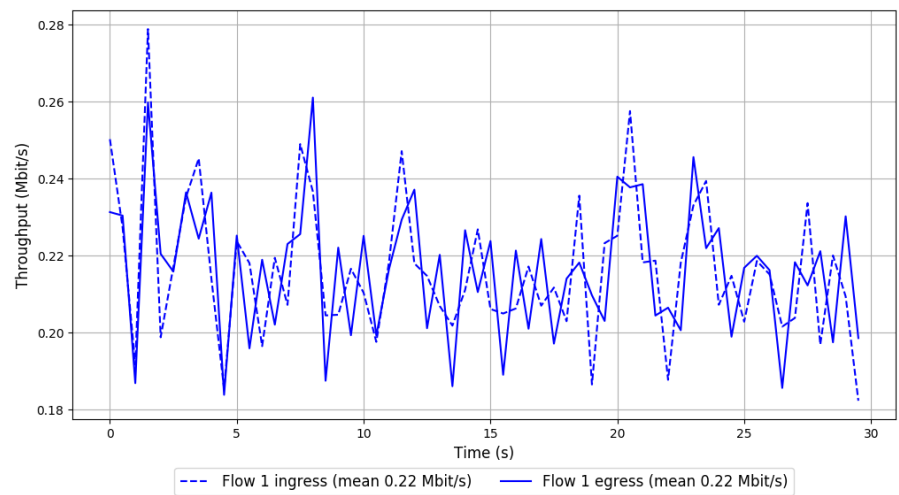
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.102 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-08-17 02:23:21

End at: 2017-08-17 02:23:51

Below is generated by plot.py at 2017-08-17 04:06:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.282 ms

Loss rate: 0.00%

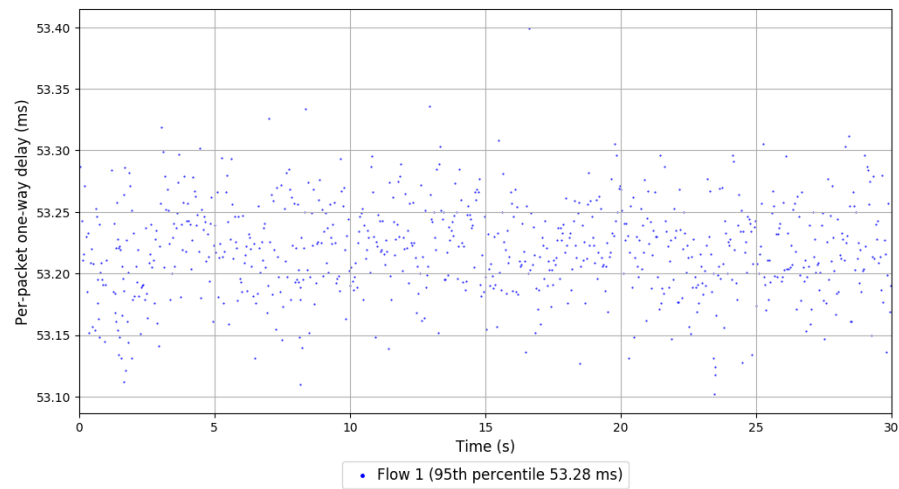
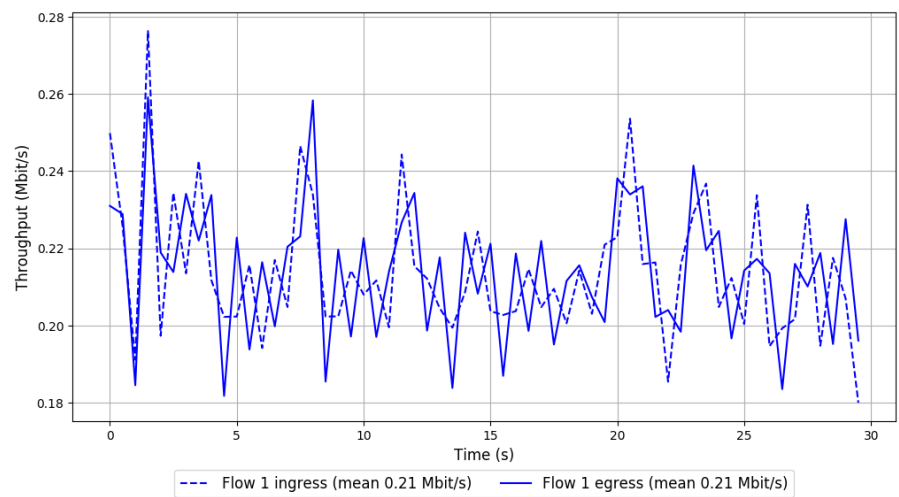
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.282 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-08-17 02:33:46

End at: 2017-08-17 02:34:16

Below is generated by plot.py at 2017-08-17 04:06:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.762 ms

Loss rate: 0.00%

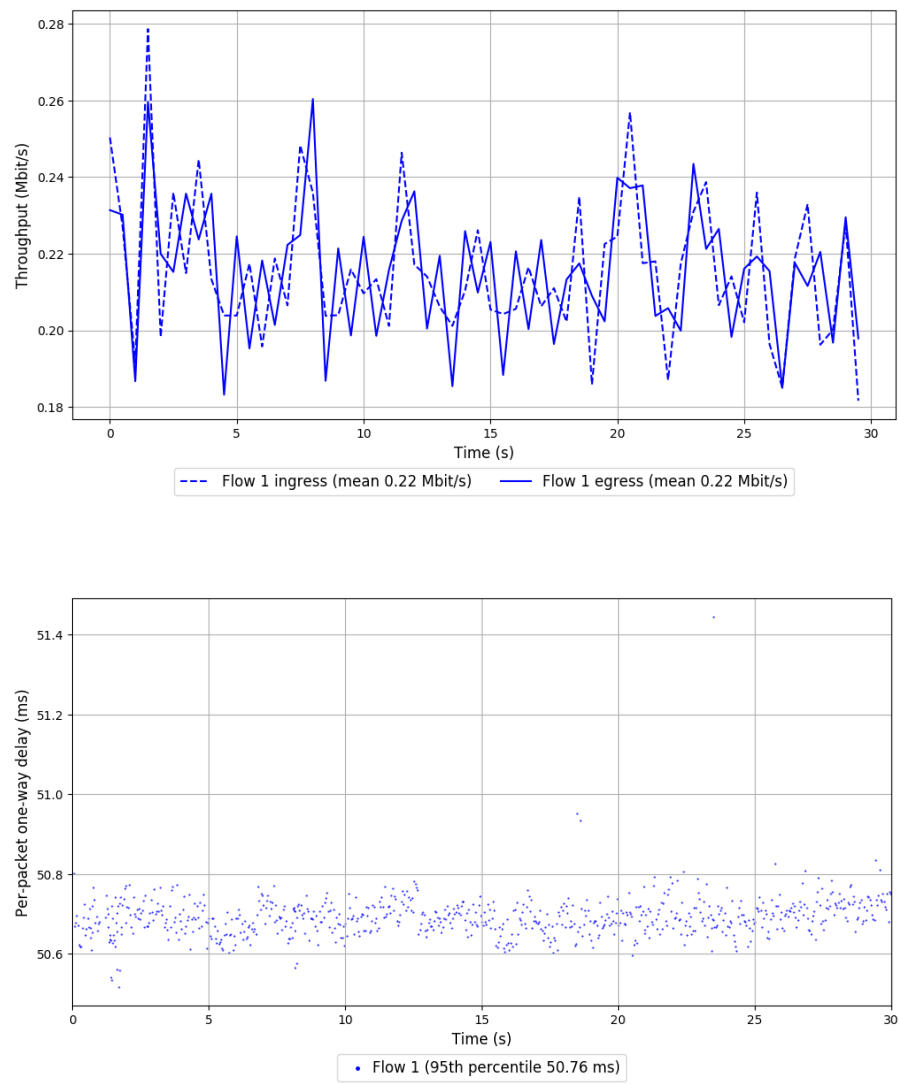
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.762 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

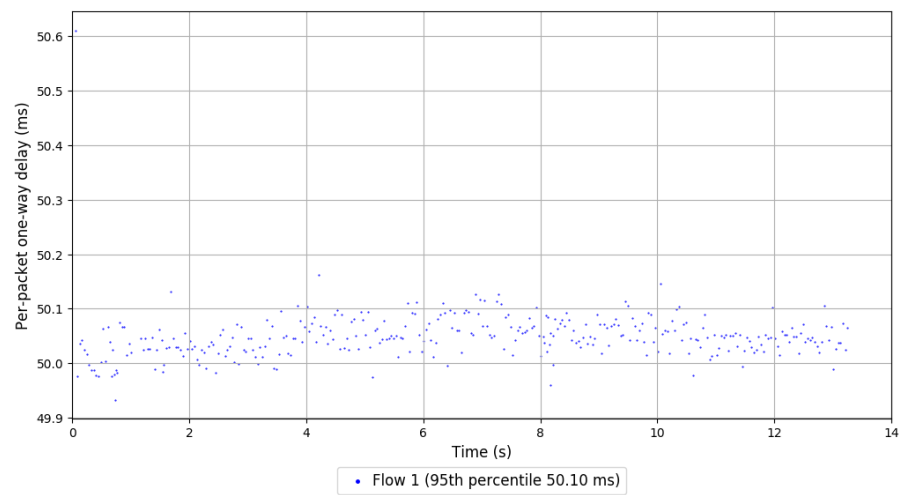
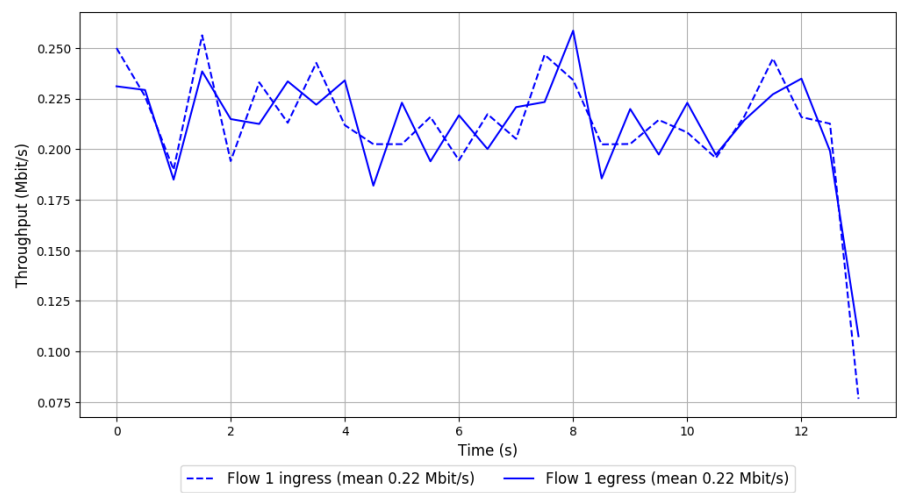


Run 9: Statistics of SReAM

Start at: 2017-08-17 02:43:52

End at: 2017-08-17 02:44:22

Run 9: Report of SReAM — Data Link

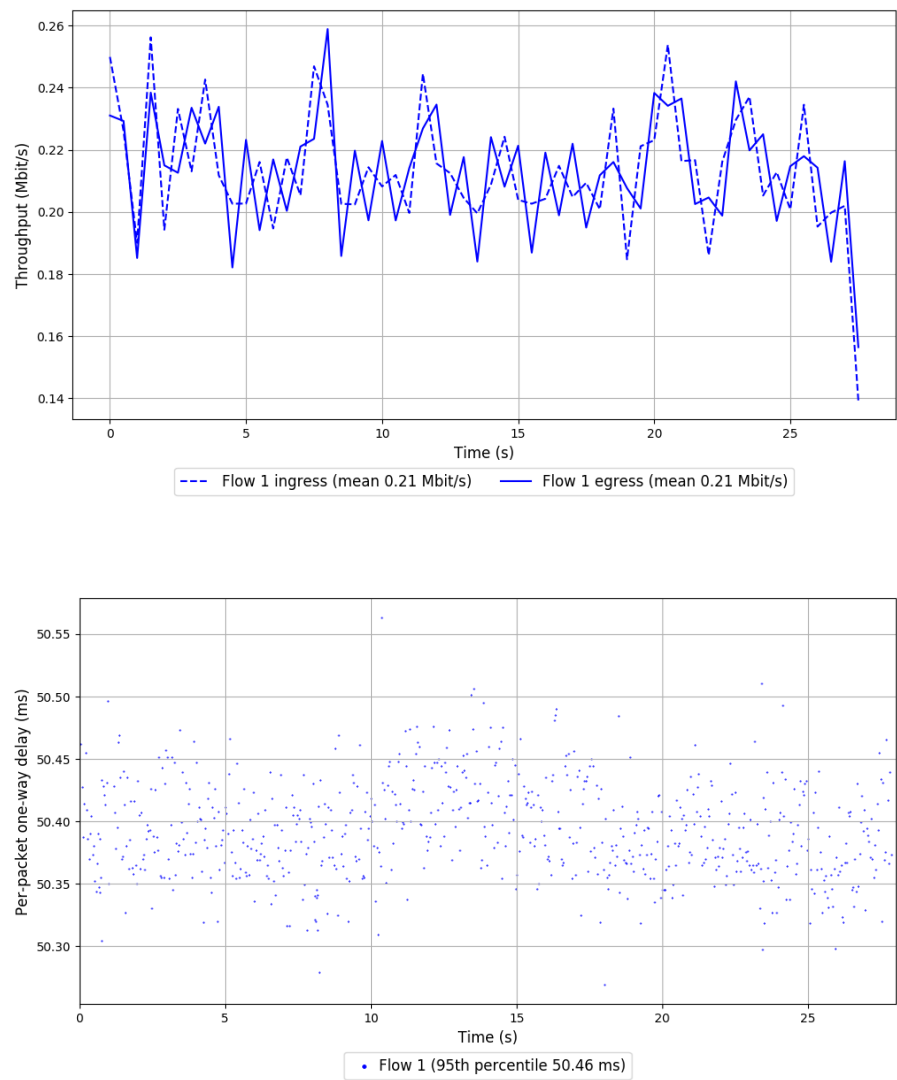


```
Run 10: Statistics of SReAM

Start at: 2017-08-17 02:54:02
End at: 2017-08-17 02:54:32

# Below is generated by plot.py at 2017-08-17 04:06:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.459 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.459 ms
Loss rate: 0.00%
```

Run 10: Report of SReAM — Data Link

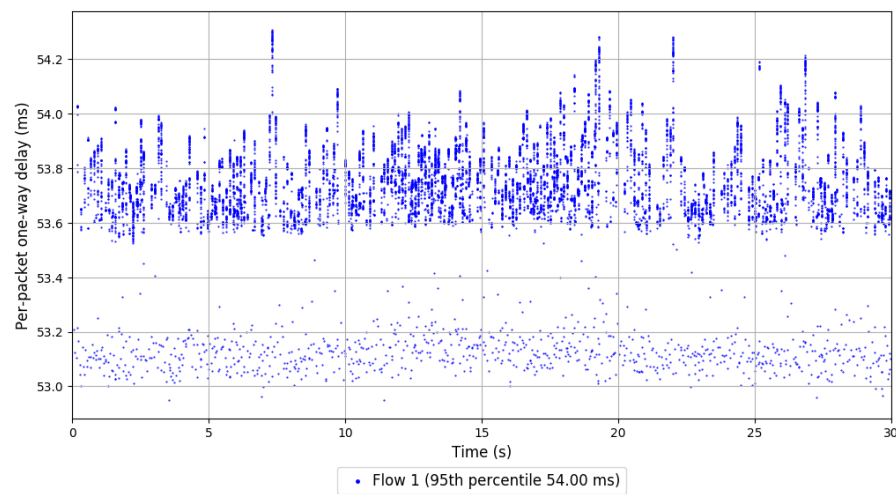
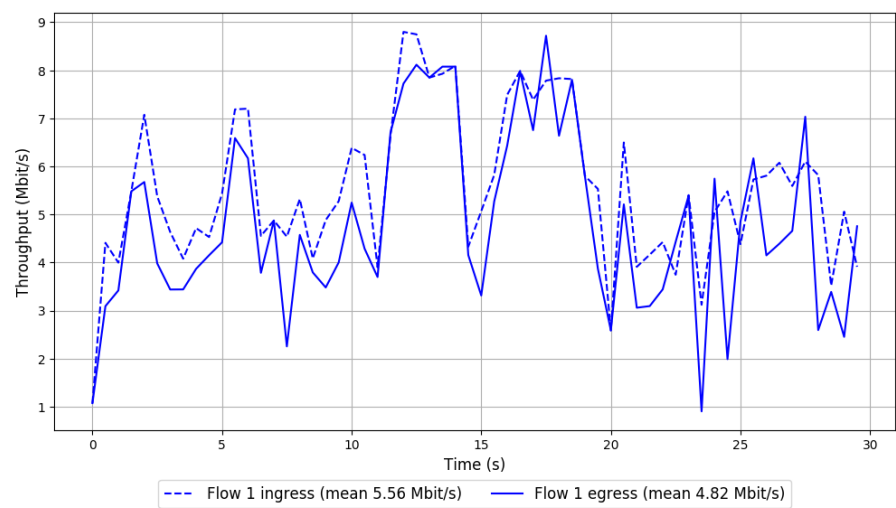


```
Run 1: Statistics of Sprout

Start at: 2017-08-17 01:24:02
End at: 2017-08-17 01:24:32

# Below is generated by plot.py at 2017-08-17 04:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.82 Mbit/s
95th percentile per-packet one-way delay: 54.001 ms
Loss rate: 13.29%
-- Flow 1:
Average throughput: 4.82 Mbit/s
95th percentile per-packet one-way delay: 54.001 ms
Loss rate: 13.29%
```


Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-08-17 01:33:59

End at: 2017-08-17 01:34:29

Below is generated by plot.py at 2017-08-17 04:06:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 54.727 ms

Loss rate: 0.00%

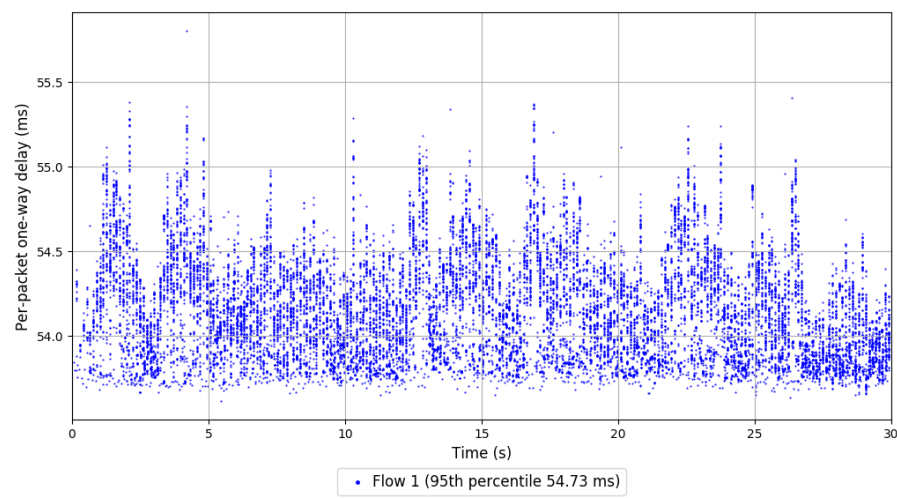
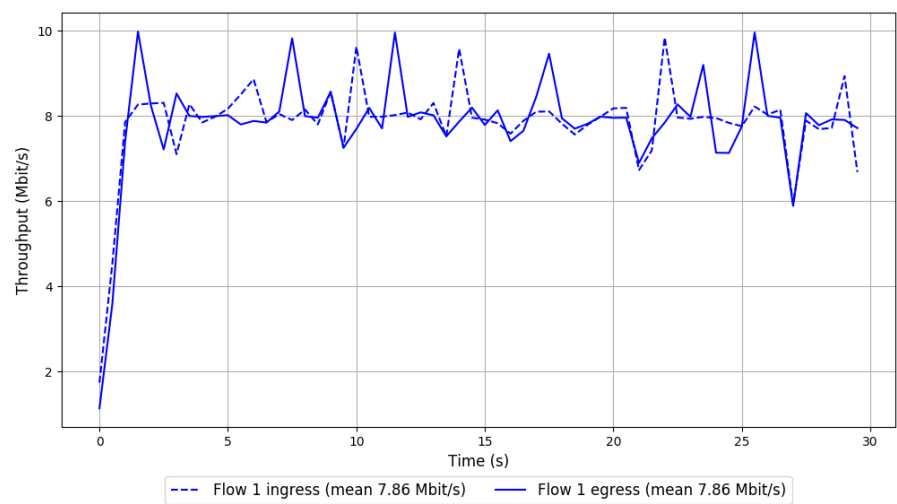
-- Flow 1:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 54.727 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-08-17 01:44:29

End at: 2017-08-17 01:44:59

Below is generated by plot.py at 2017-08-17 04:06:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.65 Mbit/s

95th percentile per-packet one-way delay: 54.305 ms

Loss rate: 0.77%

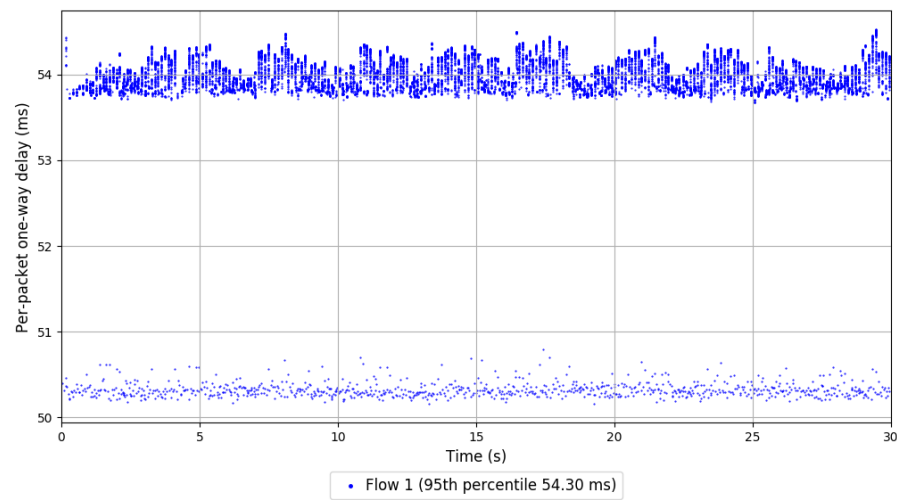
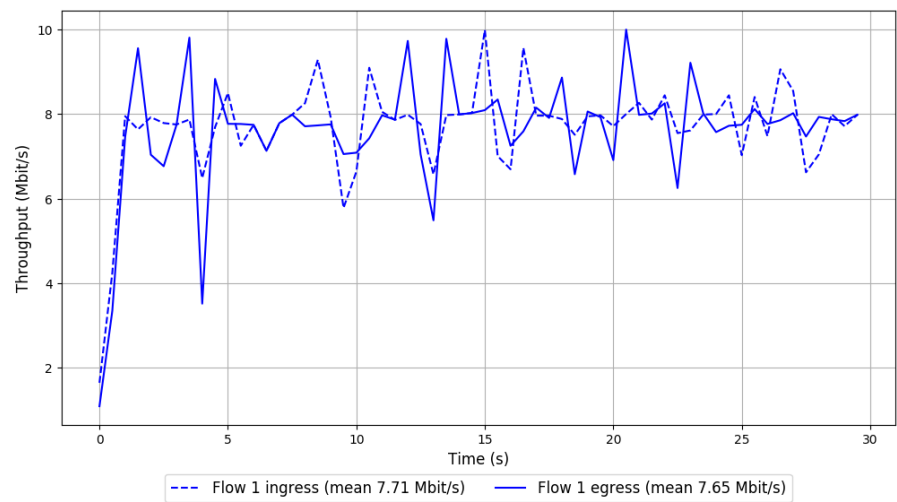
-- Flow 1:

Average throughput: 7.65 Mbit/s

95th percentile per-packet one-way delay: 54.305 ms

Loss rate: 0.77%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-08-17 01:54:45

End at: 2017-08-17 01:55:15

Below is generated by plot.py at 2017-08-17 04:07:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.25 Mbit/s

95th percentile per-packet one-way delay: 54.187 ms

Loss rate: 0.66%

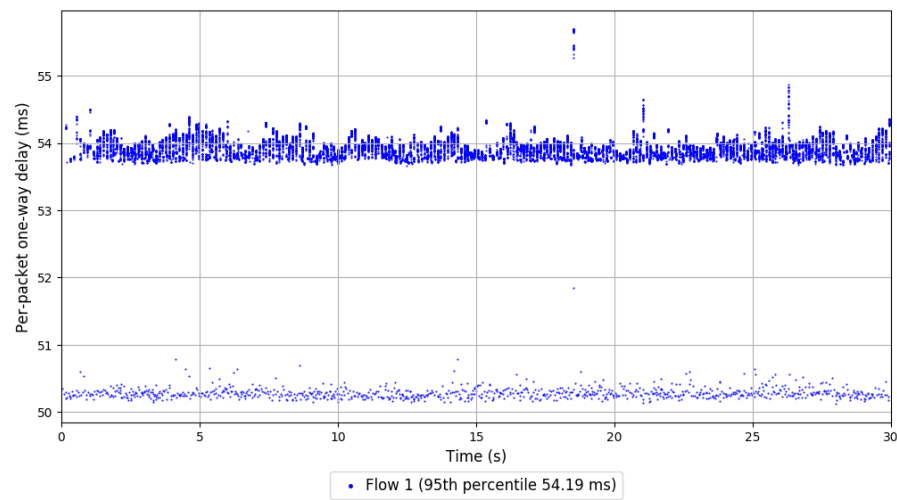
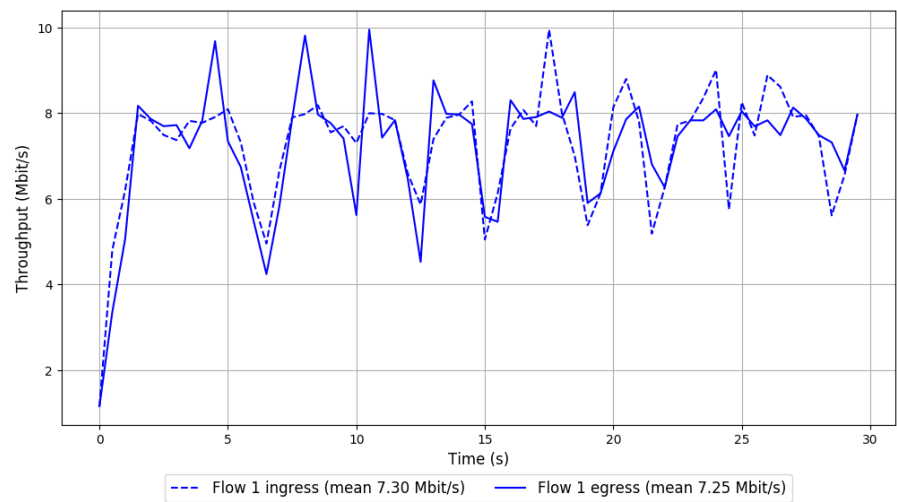
-- Flow 1:

Average throughput: 7.25 Mbit/s

95th percentile per-packet one-way delay: 54.187 ms

Loss rate: 0.66%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-08-17 02:05:02

End at: 2017-08-17 02:05:32

Below is generated by plot.py at 2017-08-17 04:07:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.56 Mbit/s

95th percentile per-packet one-way delay: 54.246 ms

Loss rate: 1.18%

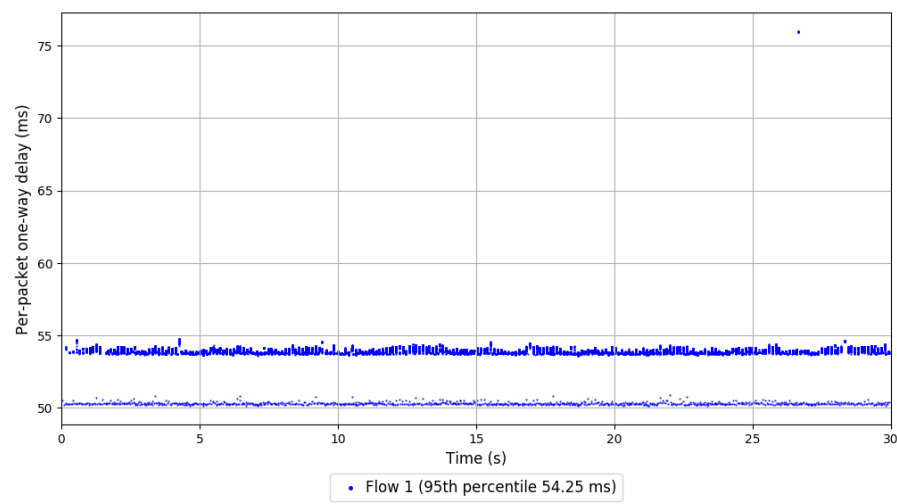
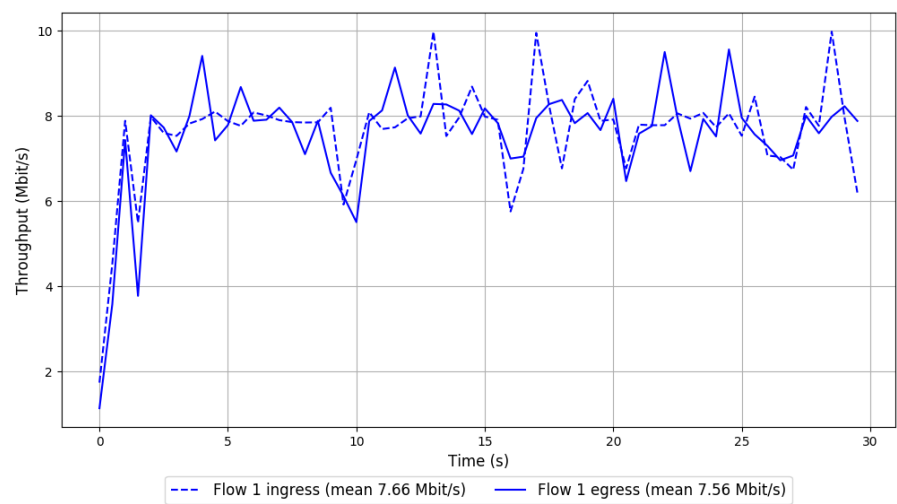
-- Flow 1:

Average throughput: 7.56 Mbit/s

95th percentile per-packet one-way delay: 54.246 ms

Loss rate: 1.18%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-08-17 02:15:07

End at: 2017-08-17 02:15:37

Below is generated by plot.py at 2017-08-17 04:07:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 54.635 ms

Loss rate: 0.00%

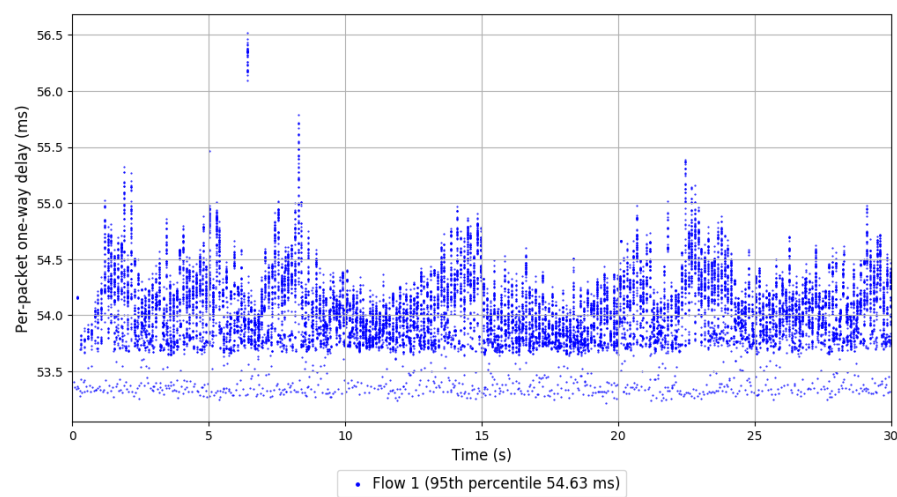
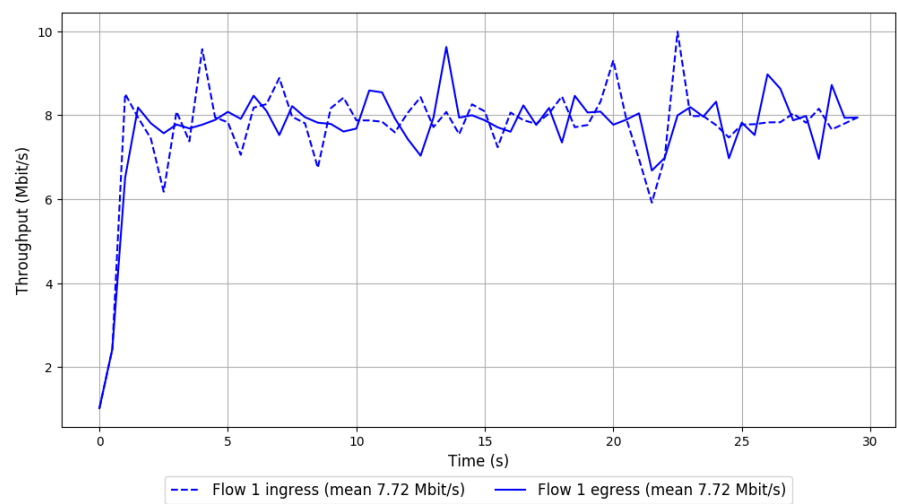
-- Flow 1:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 54.635 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-08-17 02:25:12

End at: 2017-08-17 02:25:42

Below is generated by plot.py at 2017-08-17 04:07:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 54.629 ms

Loss rate: 0.02%

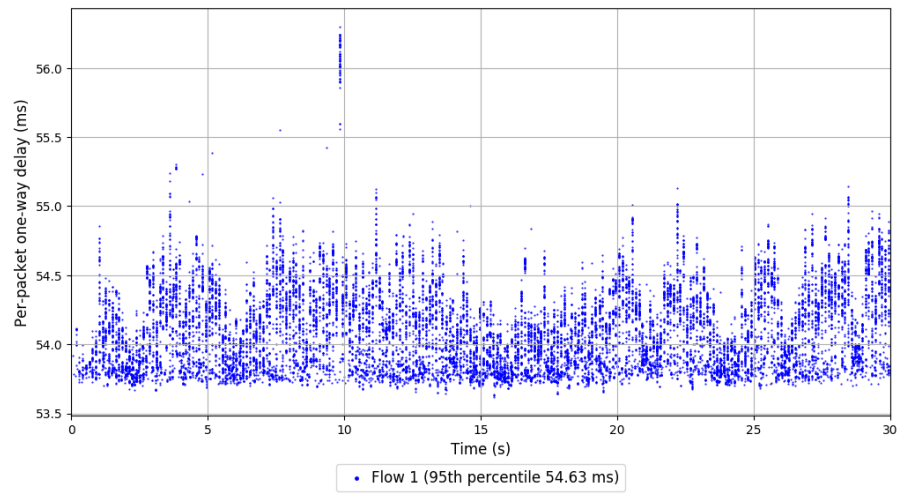
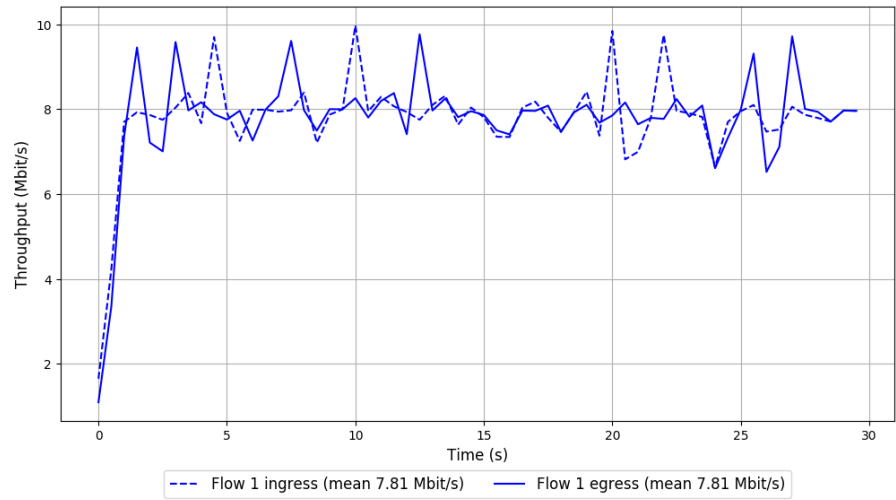
-- Flow 1:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 54.629 ms

Loss rate: 0.02%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-08-17 02:35:53

End at: 2017-08-17 02:36:23

Below is generated by plot.py at 2017-08-17 04:07:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.69 Mbit/s

95th percentile per-packet one-way delay: 54.073 ms

Loss rate: 2.18%

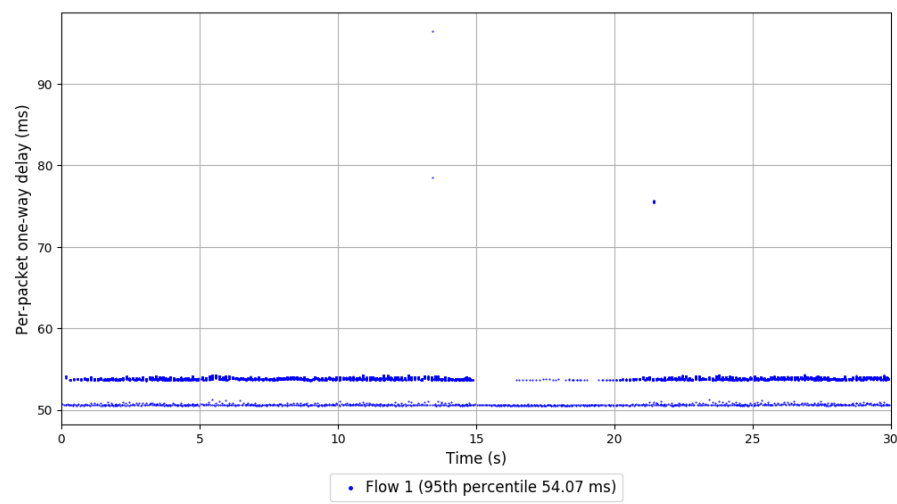
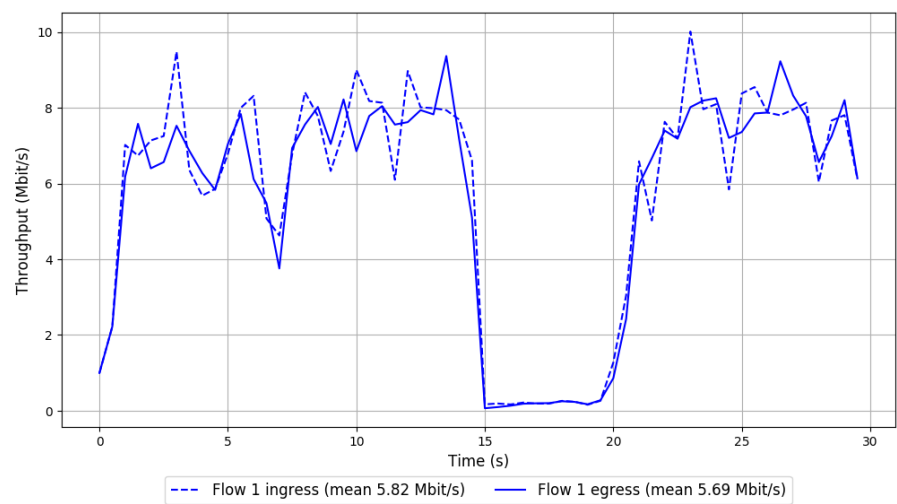
-- Flow 1:

Average throughput: 5.69 Mbit/s

95th percentile per-packet one-way delay: 54.073 ms

Loss rate: 2.18%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-08-17 02:46:03

End at: 2017-08-17 02:46:33

Below is generated by plot.py at 2017-08-17 04:07:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.65 Mbit/s

95th percentile per-packet one-way delay: 54.352 ms

Loss rate: 0.50%

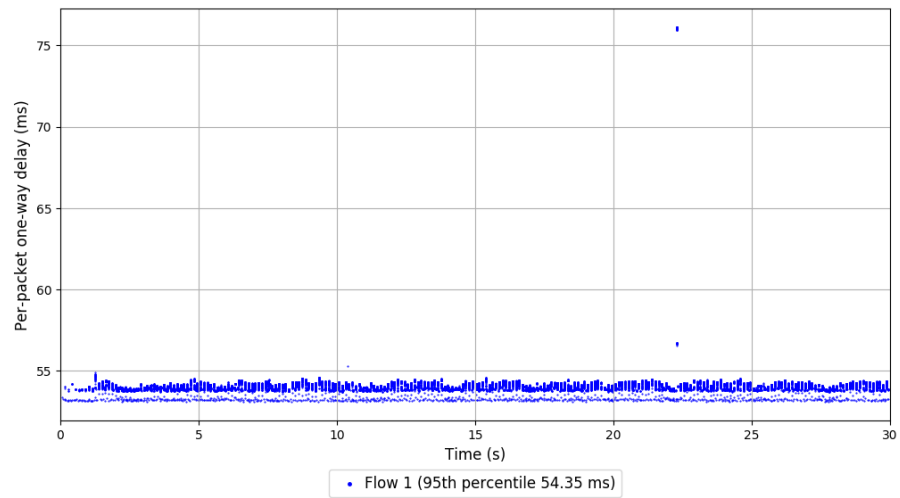
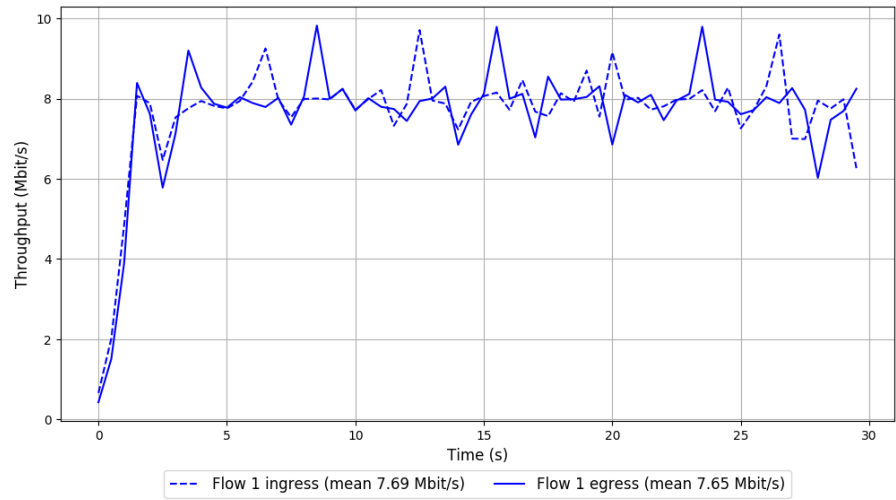
-- Flow 1:

Average throughput: 7.65 Mbit/s

95th percentile per-packet one-way delay: 54.352 ms

Loss rate: 0.50%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-08-17 02:56:14

End at: 2017-08-17 02:56:44

Below is generated by plot.py at 2017-08-17 04:07:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 54.813 ms

Loss rate: 0.00%

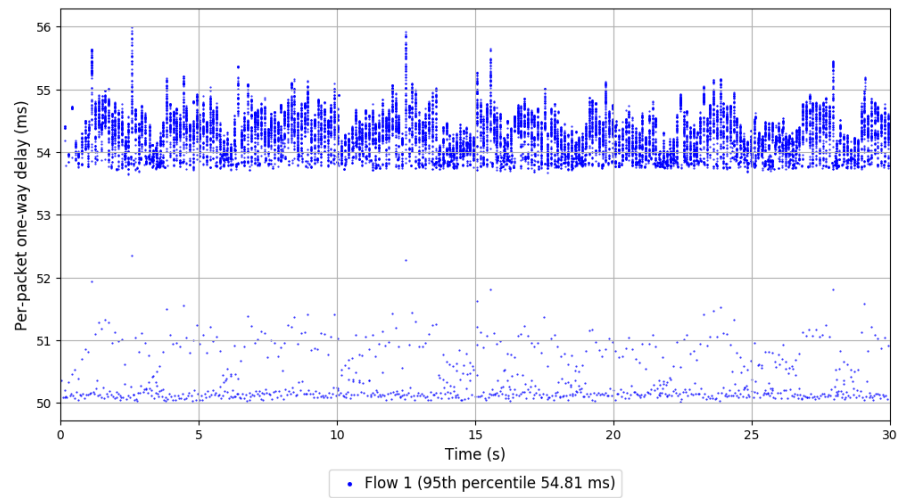
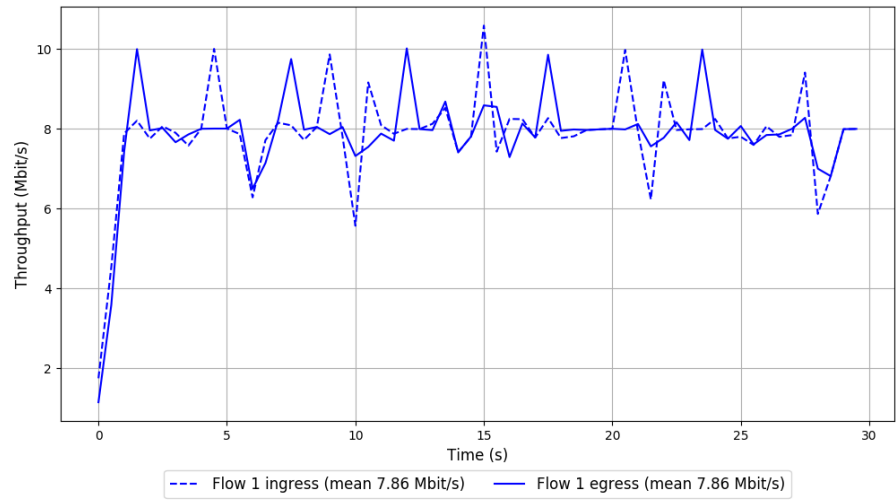
-- Flow 1:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 54.813 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

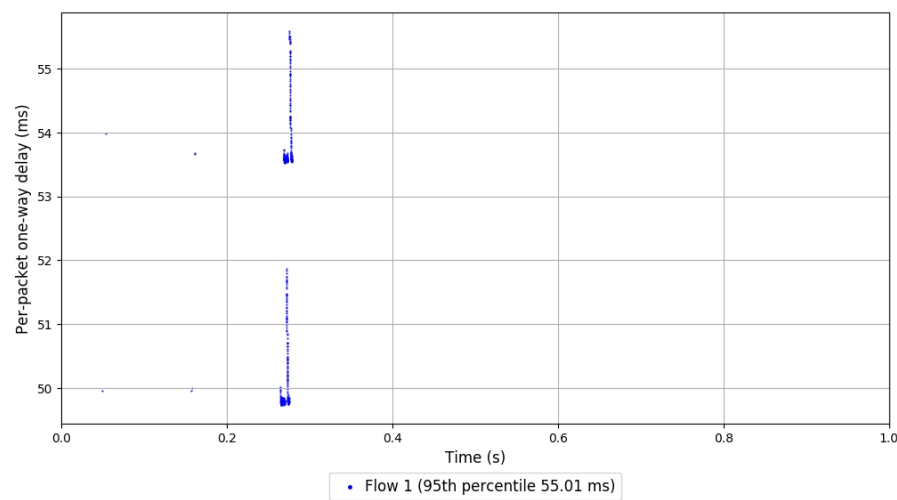
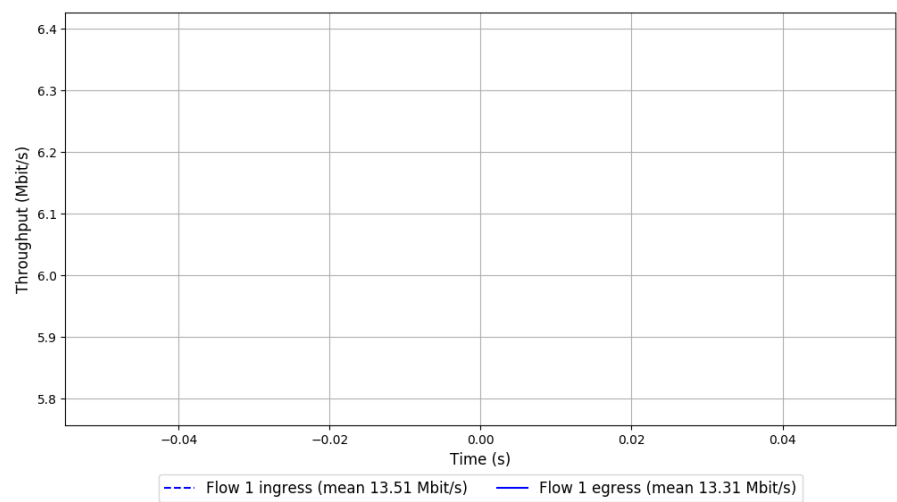


Run 1: Statistics of TaoVA-100x

Start at: 2017-08-17 01:18:48

End at: 2017-08-17 01:19:18

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

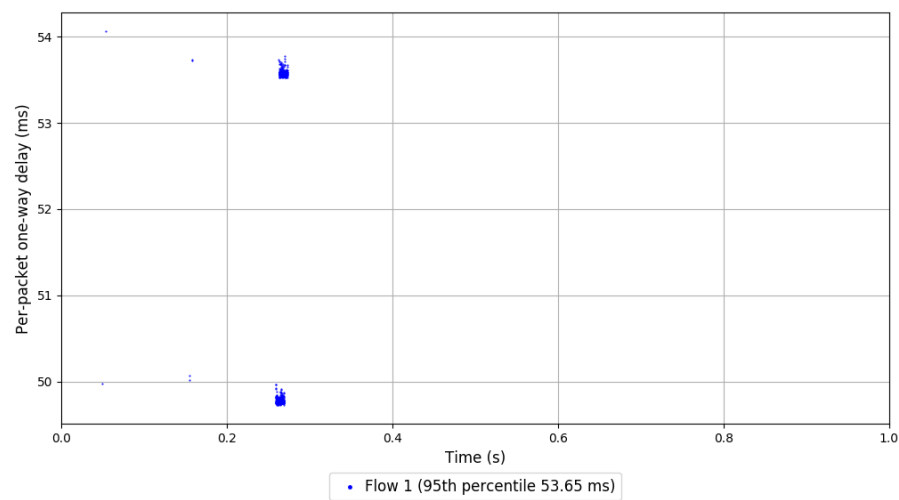
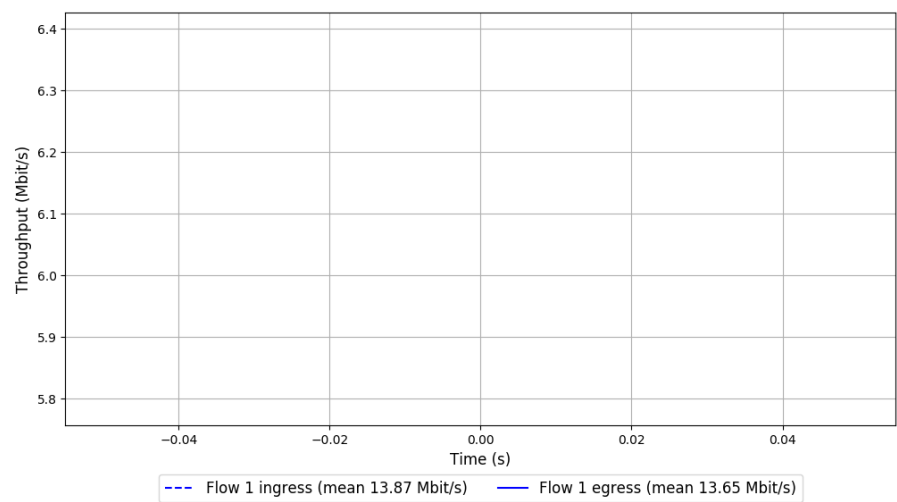


Run 2: Statistics of TaoVA-100x

Start at: 2017-08-17 01:28:26

End at: 2017-08-17 01:28:56

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

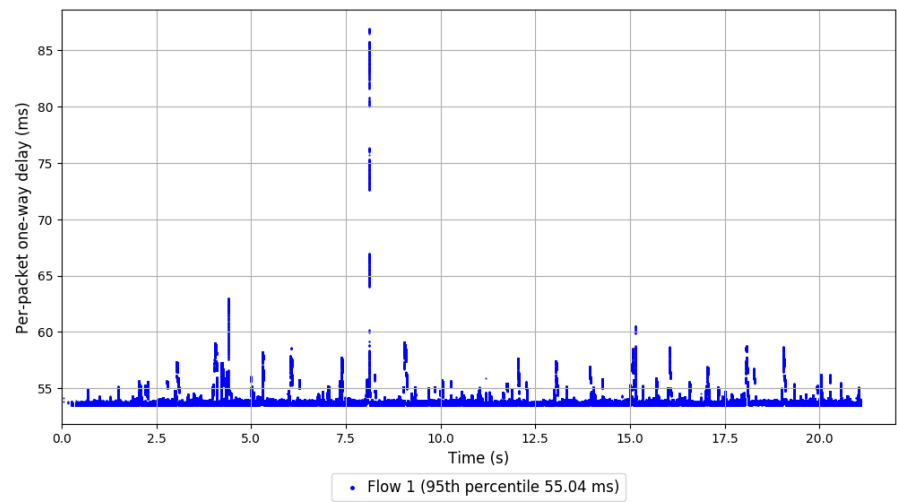
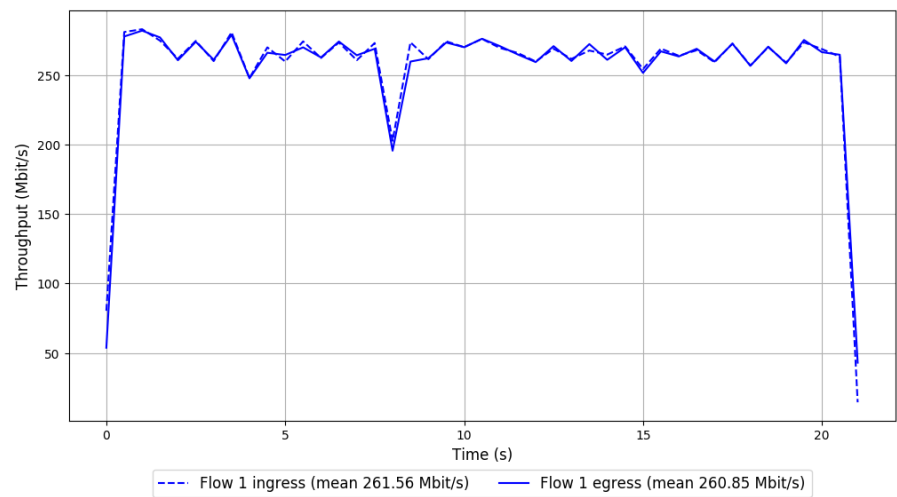


Run 3: Statistics of TaoVA-100x

Start at: 2017-08-17 01:38:28

End at: 2017-08-17 01:38:58

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

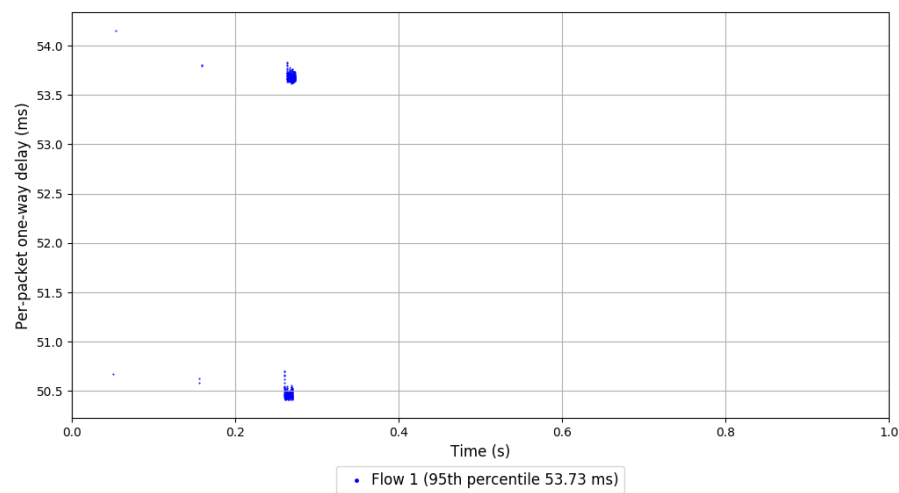
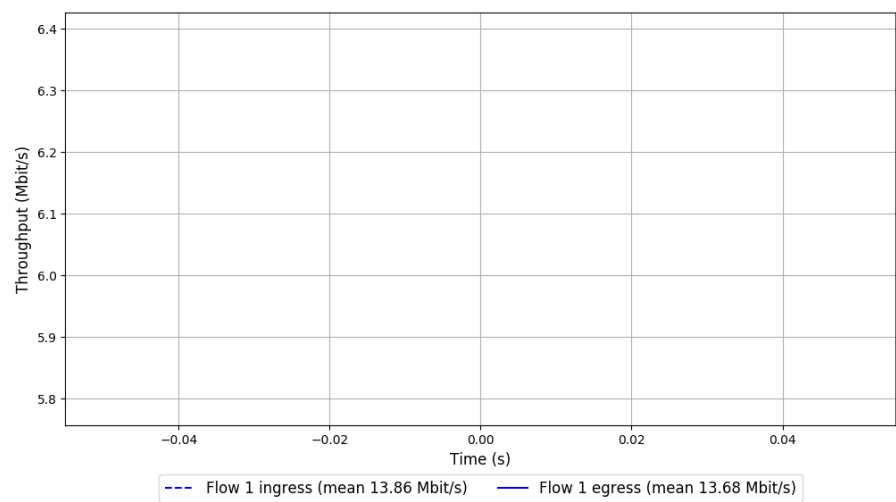


Run 4: Statistics of TaoVA-100x

Start at: 2017-08-17 01:48:57

End at: 2017-08-17 01:49:27

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

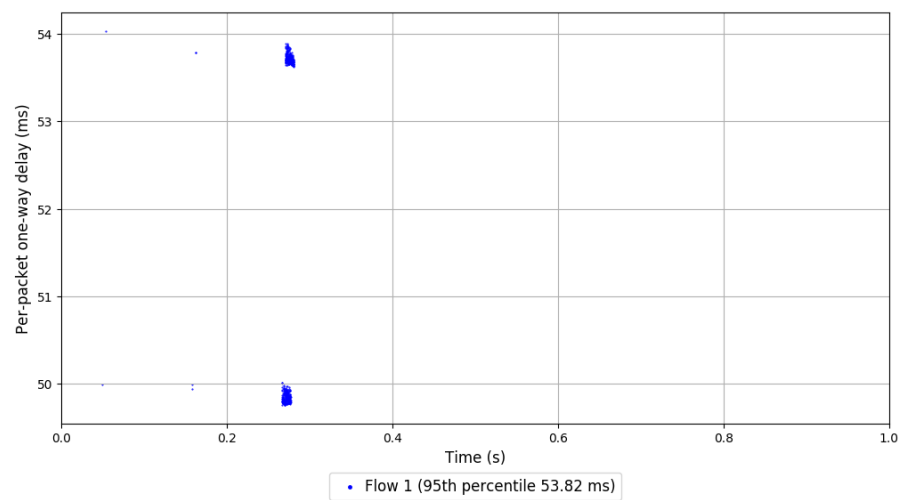
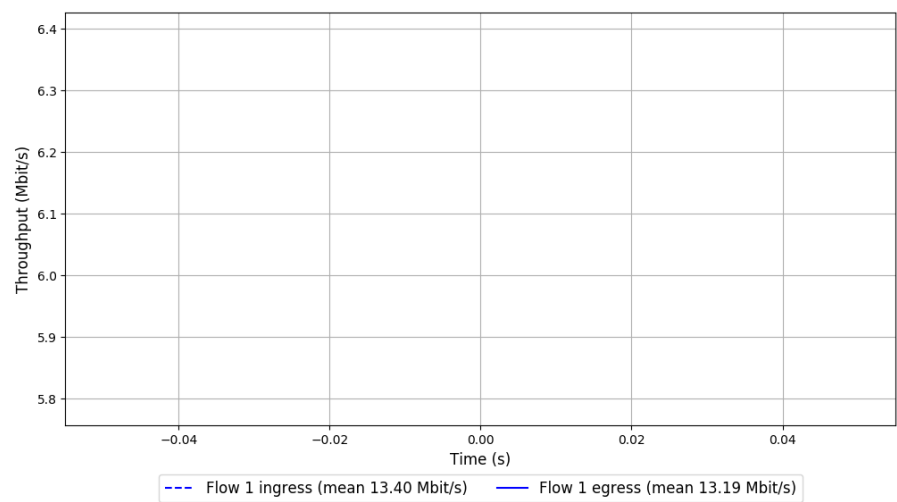


Run 5: Statistics of TaoVA-100x

Start at: 2017-08-17 01:59:12

End at: 2017-08-17 01:59:42

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

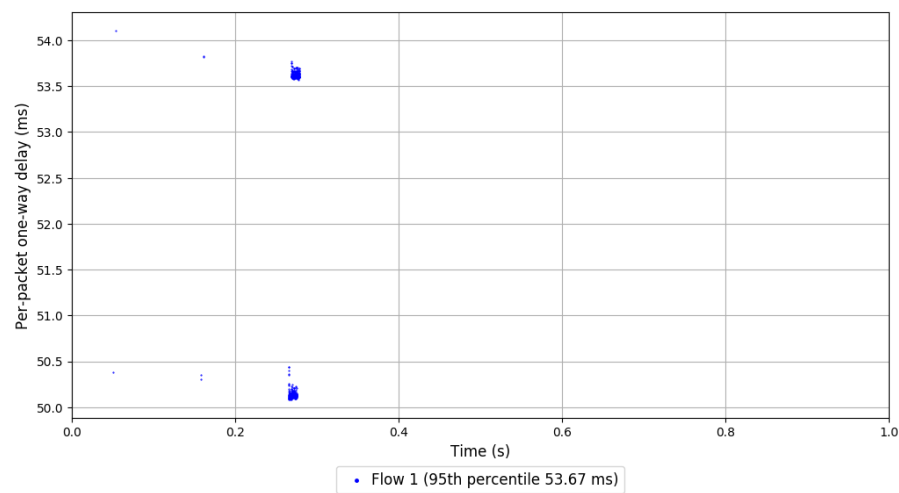
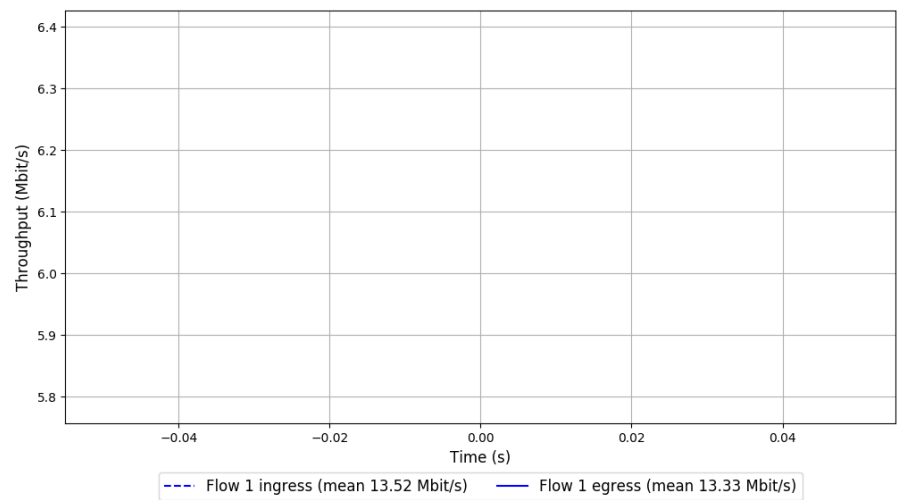


Run 6: Statistics of TaoVA-100x

Start at: 2017-08-17 02:09:28

End at: 2017-08-17 02:09:58

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

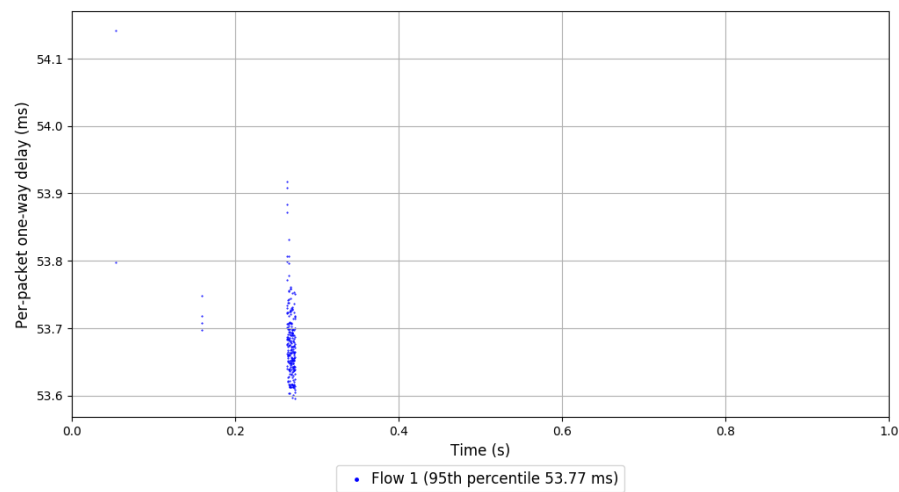
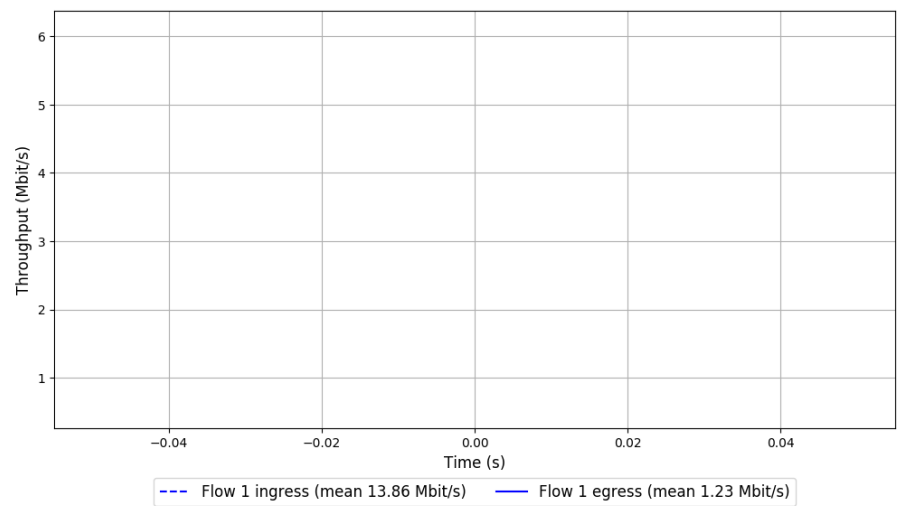


Run 7: Statistics of TaoVA-100x

Start at: 2017-08-17 02:19:36

End at: 2017-08-17 02:20:06

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-08-17 02:29:40

End at: 2017-08-17 02:30:10

Below is generated by plot.py at 2017-08-17 04:08:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 249.73 Mbit/s

95th percentile per-packet one-way delay: 56.743 ms

Loss rate: 0.37%

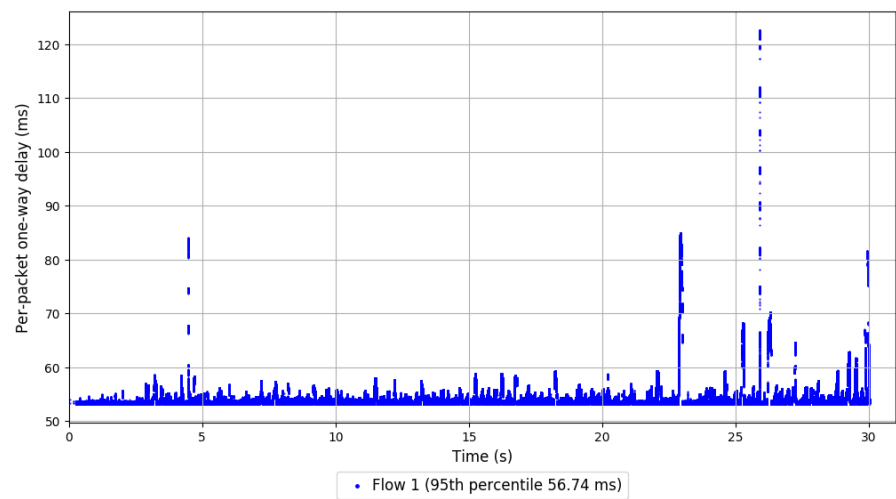
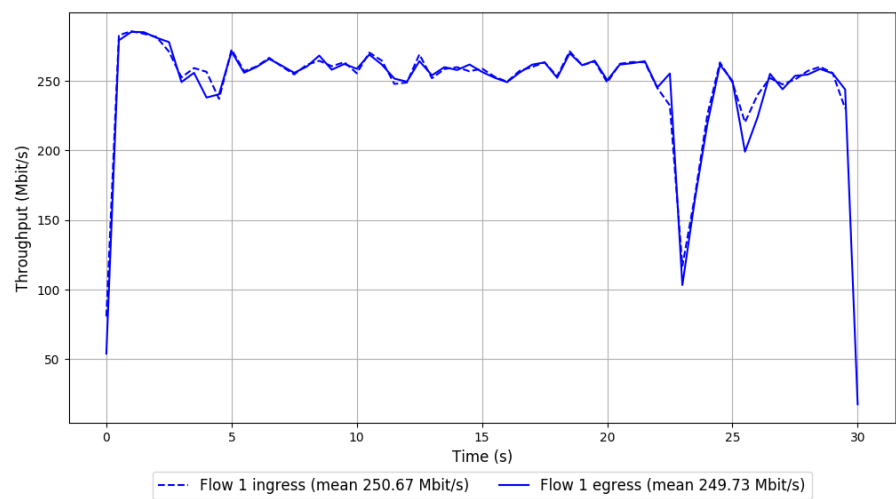
-- Flow 1:

Average throughput: 249.73 Mbit/s

95th percentile per-packet one-way delay: 56.743 ms

Loss rate: 0.37%

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

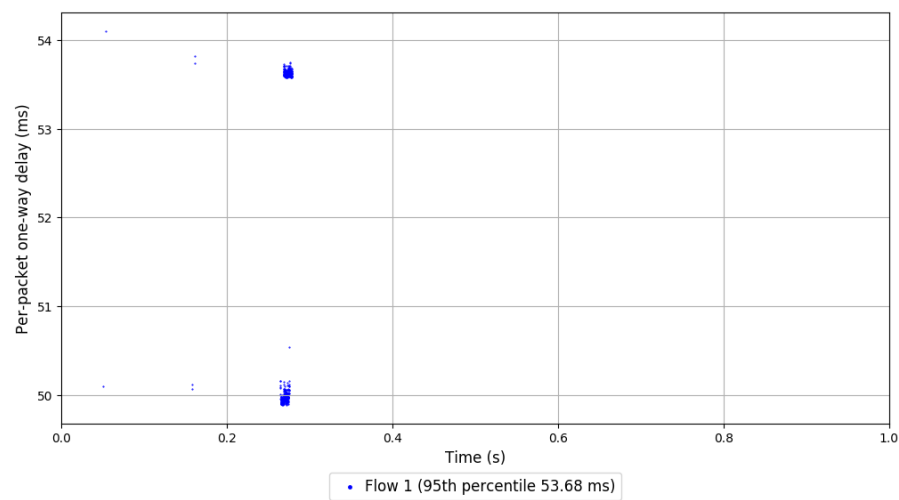
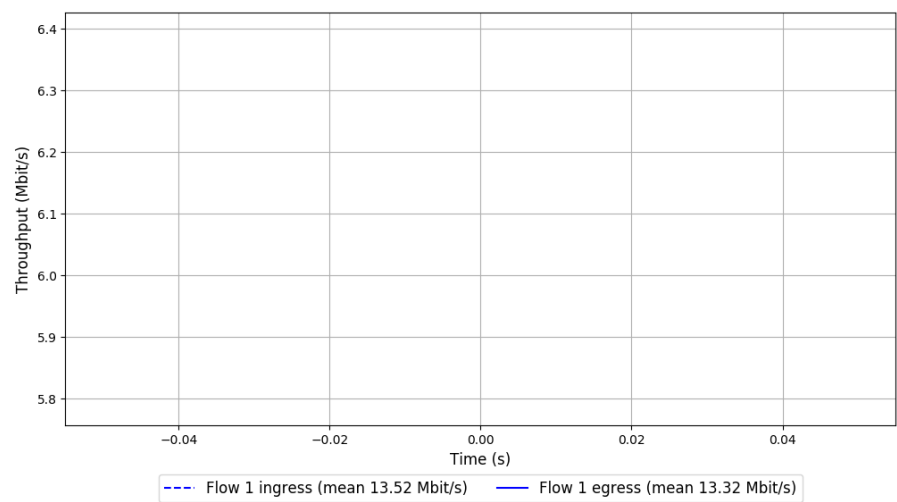


Run 9: Statistics of TaoVA-100x

Start at: 2017-08-17 02:40:22

End at: 2017-08-17 02:40:52

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

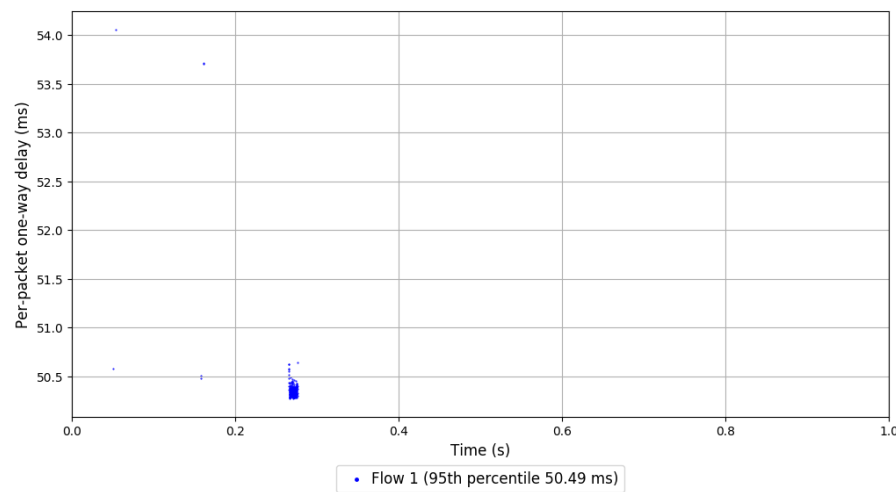
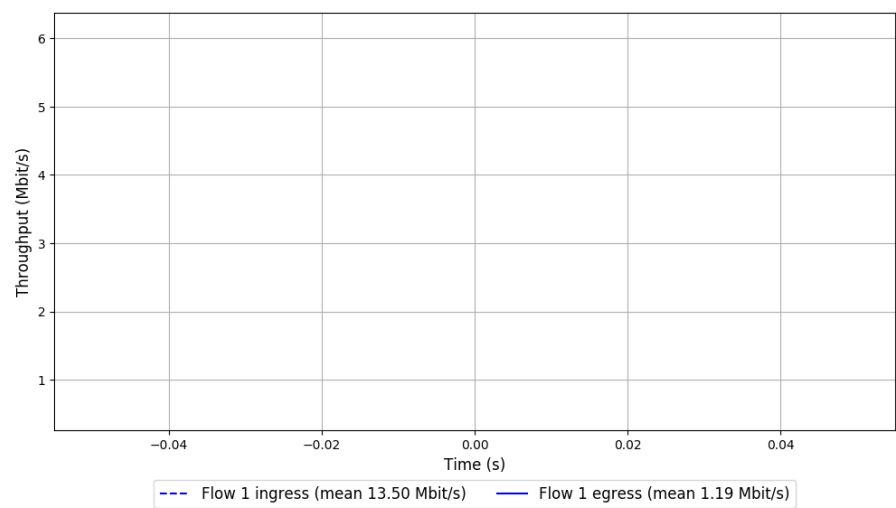


Run 10: Statistics of TaoVA-100x

Start at: 2017-08-17 02:50:32

End at: 2017-08-17 02:51:02

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



Run 1: Statistics of TCP Vegas

Start at: 2017-08-17 01:24:39

End at: 2017-08-17 01:25:09

Below is generated by plot.py at 2017-08-17 04:08:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.24 Mbit/s

95th percentile per-packet one-way delay: 54.273 ms

Loss rate: 0.42%

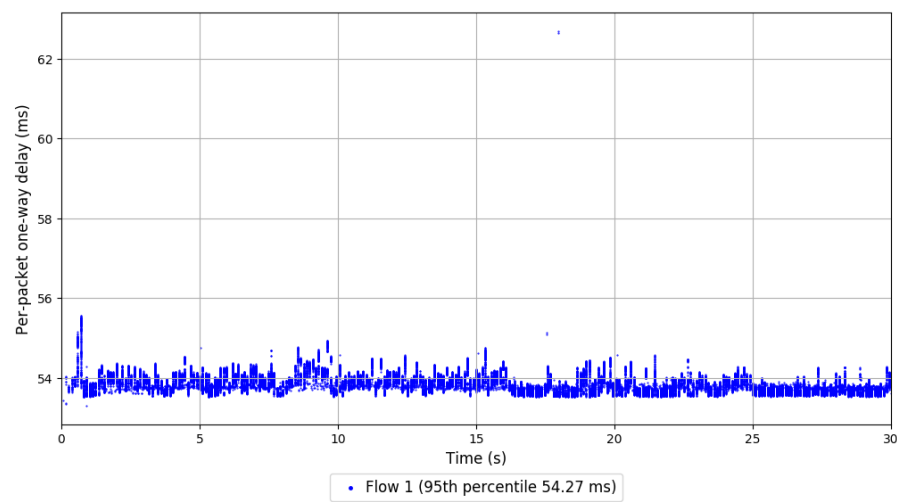
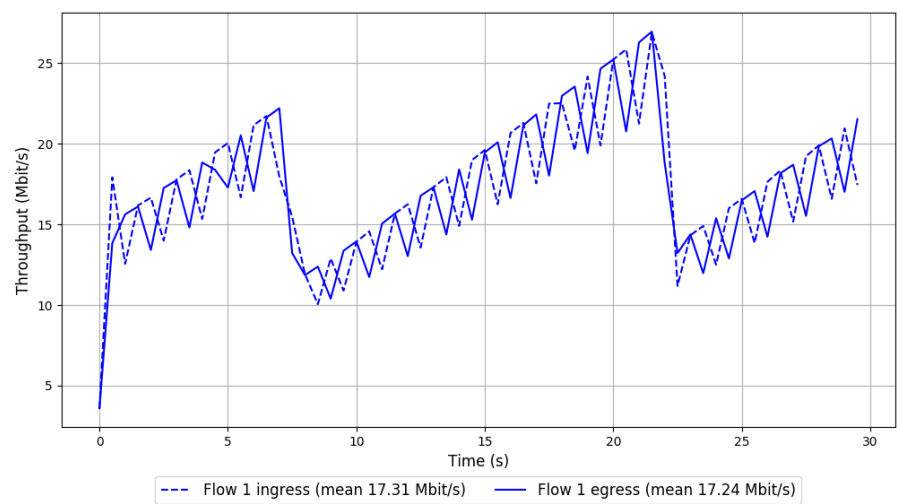
-- Flow 1:

Average throughput: 17.24 Mbit/s

95th percentile per-packet one-way delay: 54.273 ms

Loss rate: 0.42%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-08-17 01:34:36

End at: 2017-08-17 01:35:06

Below is generated by plot.py at 2017-08-17 04:08:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.31 Mbit/s

95th percentile per-packet one-way delay: 54.111 ms

Loss rate: 0.07%

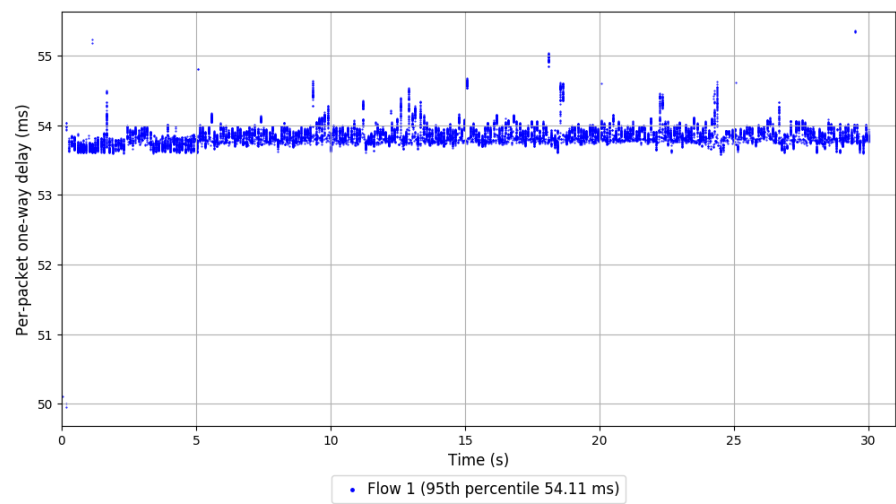
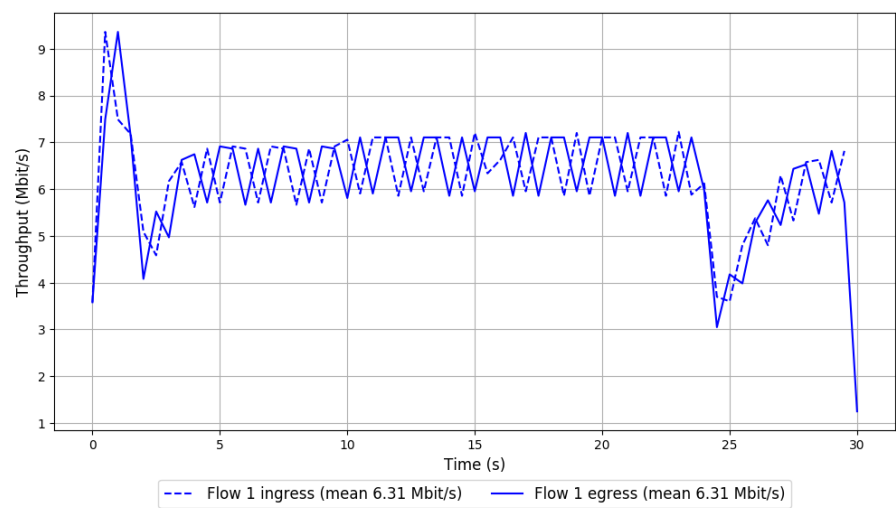
-- Flow 1:

Average throughput: 6.31 Mbit/s

95th percentile per-packet one-way delay: 54.111 ms

Loss rate: 0.07%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-08-17 01:45:07

End at: 2017-08-17 01:45:37

Below is generated by plot.py at 2017-08-17 04:08:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.82 Mbit/s

95th percentile per-packet one-way delay: 54.199 ms

Loss rate: 0.08%

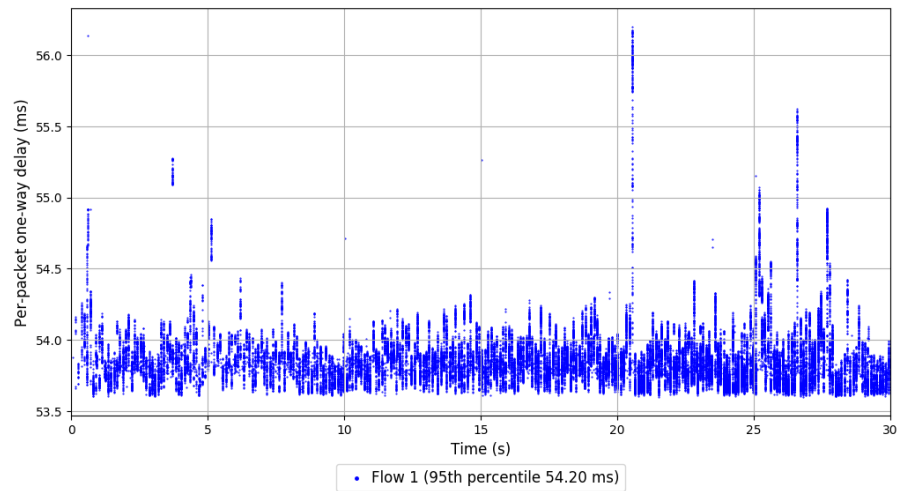
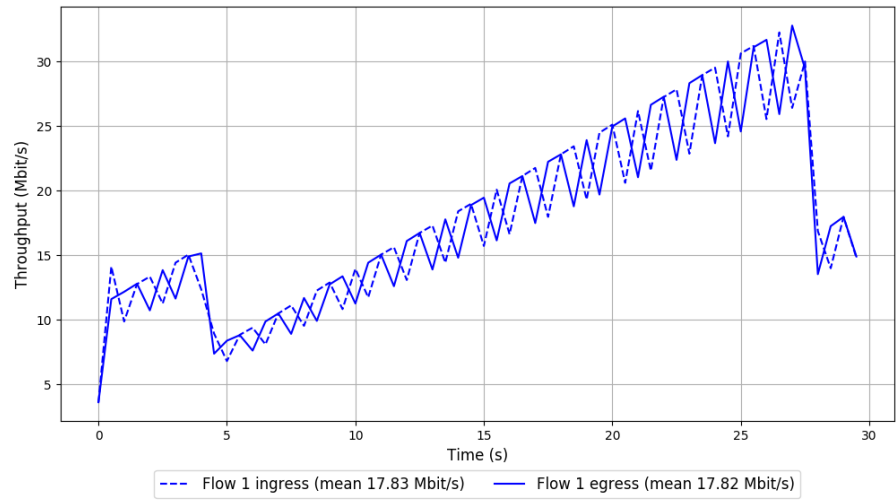
-- Flow 1:

Average throughput: 17.82 Mbit/s

95th percentile per-packet one-way delay: 54.199 ms

Loss rate: 0.08%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-08-17 01:55:23

End at: 2017-08-17 01:55:53

Below is generated by plot.py at 2017-08-17 04:08:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.28 Mbit/s

95th percentile per-packet one-way delay: 54.092 ms

Loss rate: 0.25%

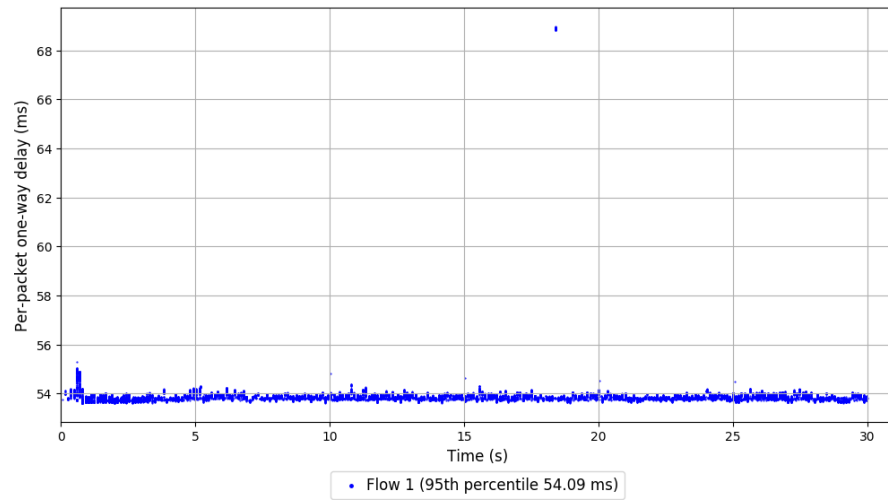
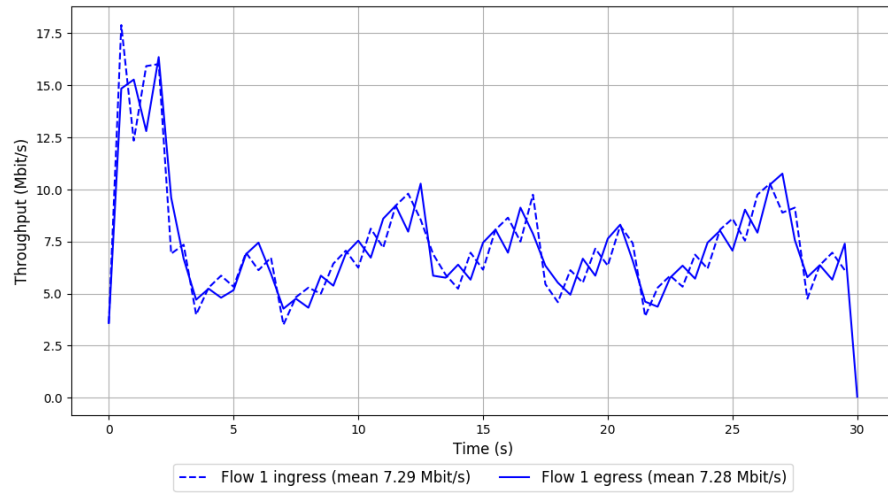
-- Flow 1:

Average throughput: 7.28 Mbit/s

95th percentile per-packet one-way delay: 54.092 ms

Loss rate: 0.25%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-08-17 02:05:40

End at: 2017-08-17 02:06:10

Below is generated by plot.py at 2017-08-17 04:08:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.88 Mbit/s

95th percentile per-packet one-way delay: 54.073 ms

Loss rate: 0.09%

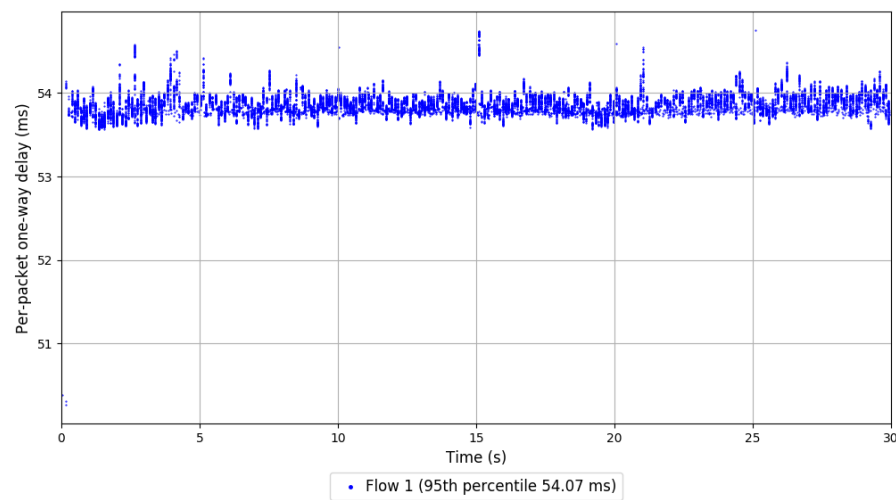
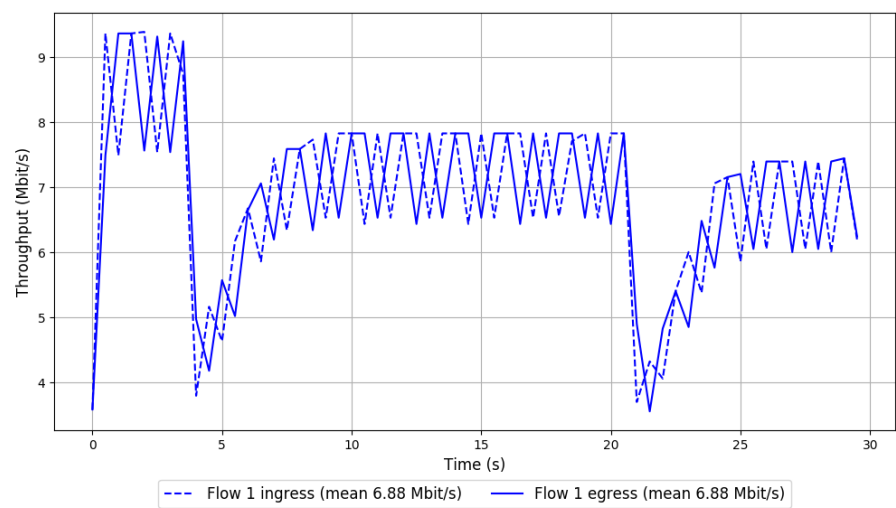
-- Flow 1:

Average throughput: 6.88 Mbit/s

95th percentile per-packet one-way delay: 54.073 ms

Loss rate: 0.09%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-08-17 02:15:45

End at: 2017-08-17 02:16:15

Below is generated by plot.py at 2017-08-17 04:08:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.53 Mbit/s

95th percentile per-packet one-way delay: 53.987 ms

Loss rate: 0.03%

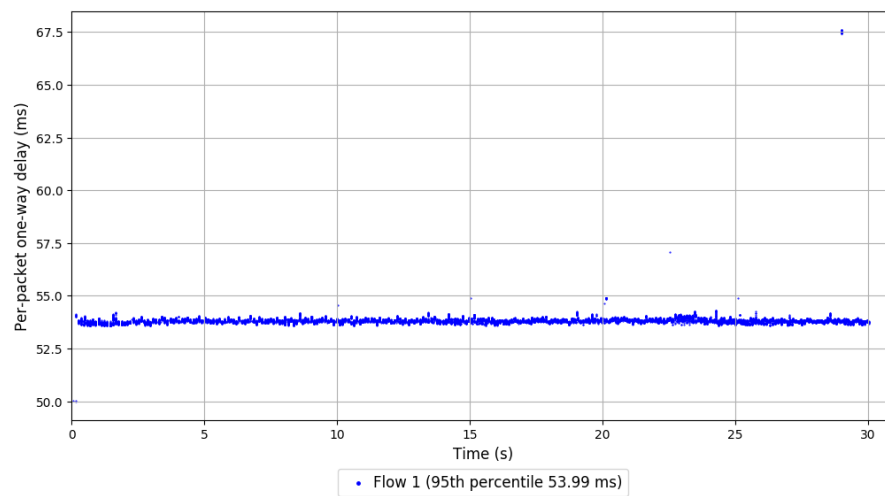
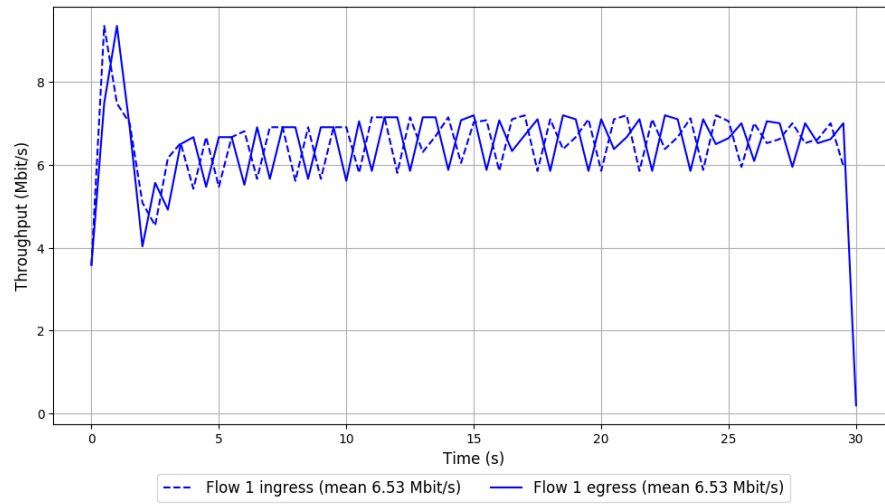
-- Flow 1:

Average throughput: 6.53 Mbit/s

95th percentile per-packet one-way delay: 53.987 ms

Loss rate: 0.03%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-08-17 02:25:50

End at: 2017-08-17 02:26:20

Below is generated by plot.py at 2017-08-17 04:08:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.65 Mbit/s

95th percentile per-packet one-way delay: 53.985 ms

Loss rate: 1.40%

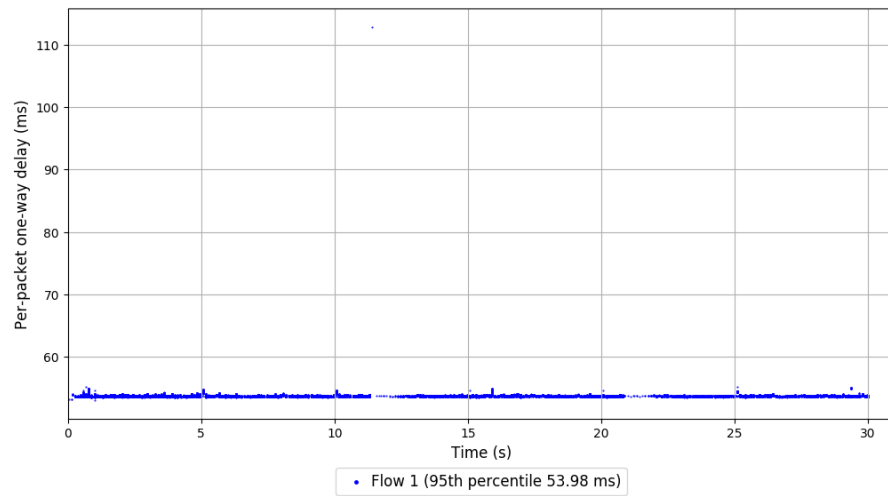
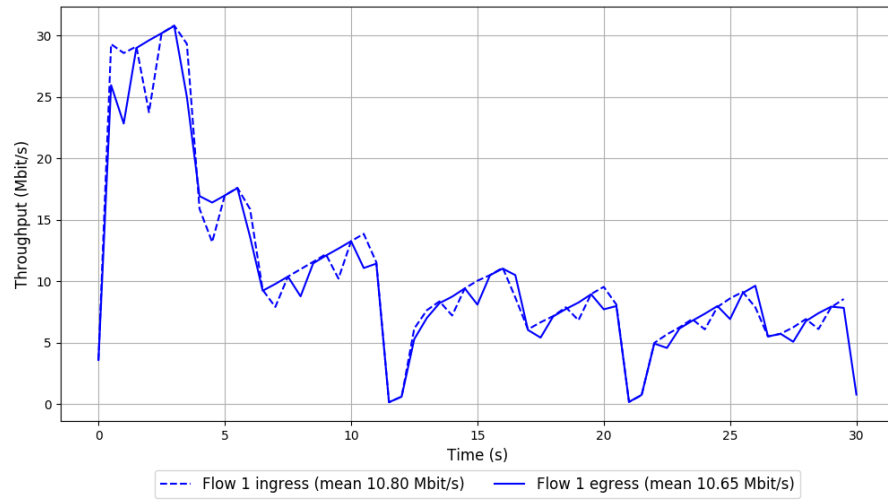
-- Flow 1:

Average throughput: 10.65 Mbit/s

95th percentile per-packet one-way delay: 53.985 ms

Loss rate: 1.40%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-08-17 02:36:31

End at: 2017-08-17 02:37:01

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.88 Mbit/s

95th percentile per-packet one-way delay: 54.105 ms

Loss rate: 0.09%

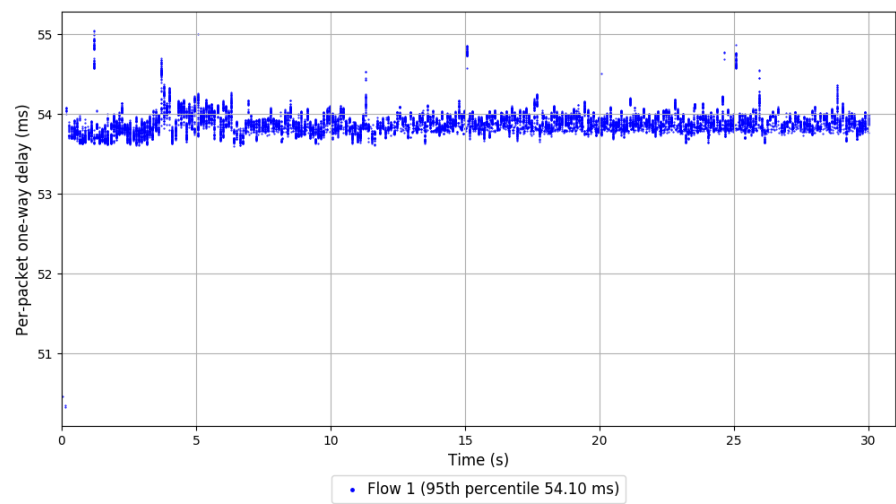
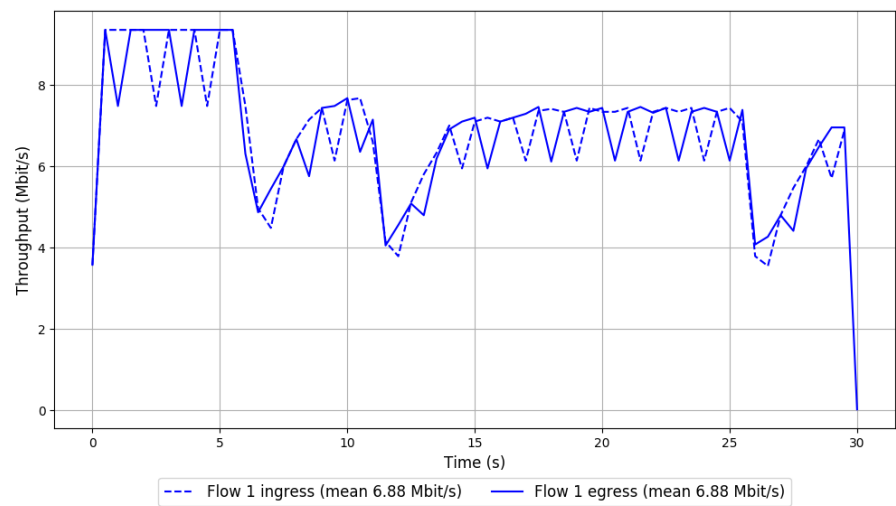
-- Flow 1:

Average throughput: 6.88 Mbit/s

95th percentile per-packet one-way delay: 54.105 ms

Loss rate: 0.09%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-08-17 02:46:41

End at: 2017-08-17 02:47:11

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.62 Mbit/s

95th percentile per-packet one-way delay: 54.329 ms

Loss rate: 0.00%

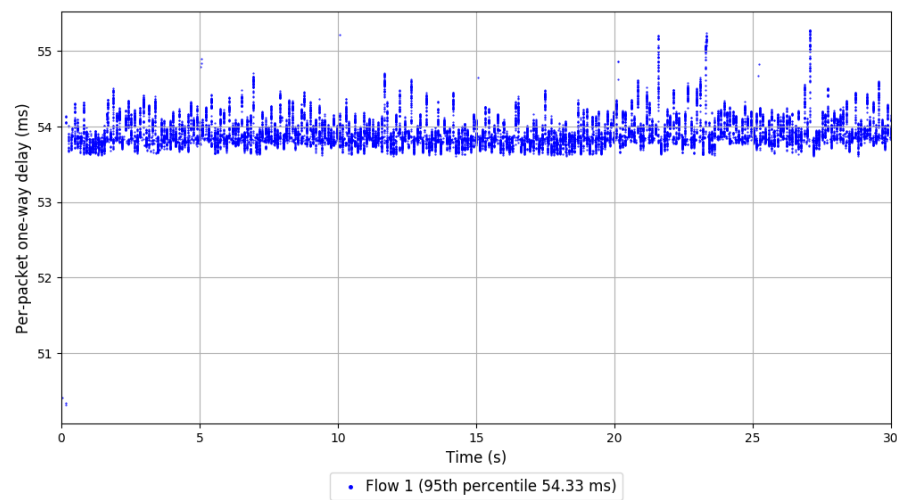
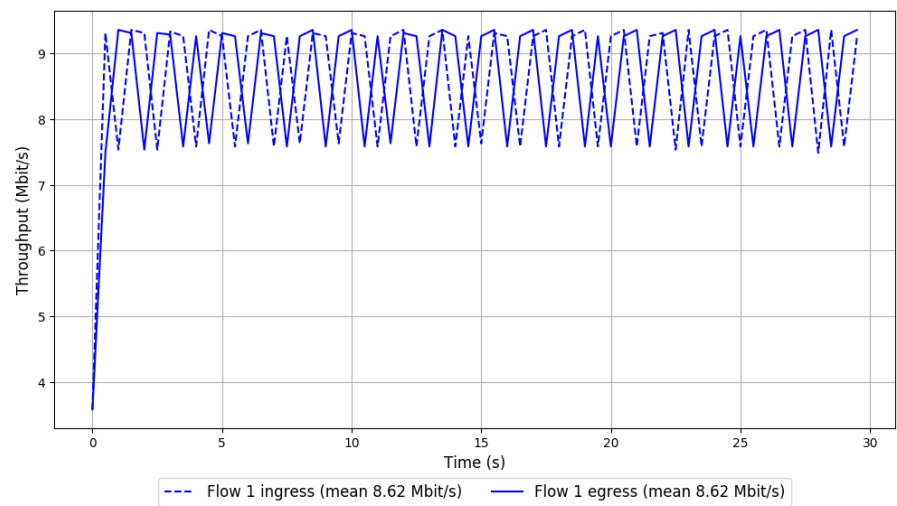
-- Flow 1:

Average throughput: 8.62 Mbit/s

95th percentile per-packet one-way delay: 54.329 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-08-17 02:56:52

End at: 2017-08-17 02:57:22

Below is generated by plot.py at 2017-08-17 04:08:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.88 Mbit/s

95th percentile per-packet one-way delay: 54.262 ms

Loss rate: 0.00%

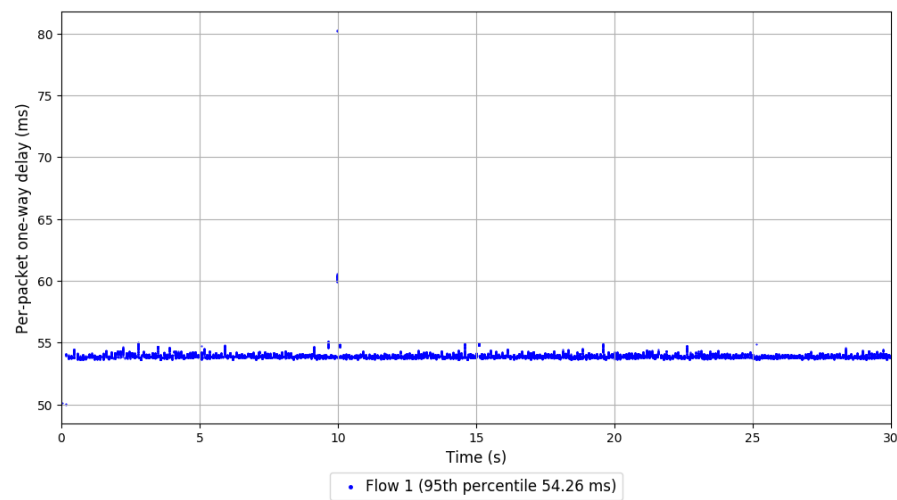
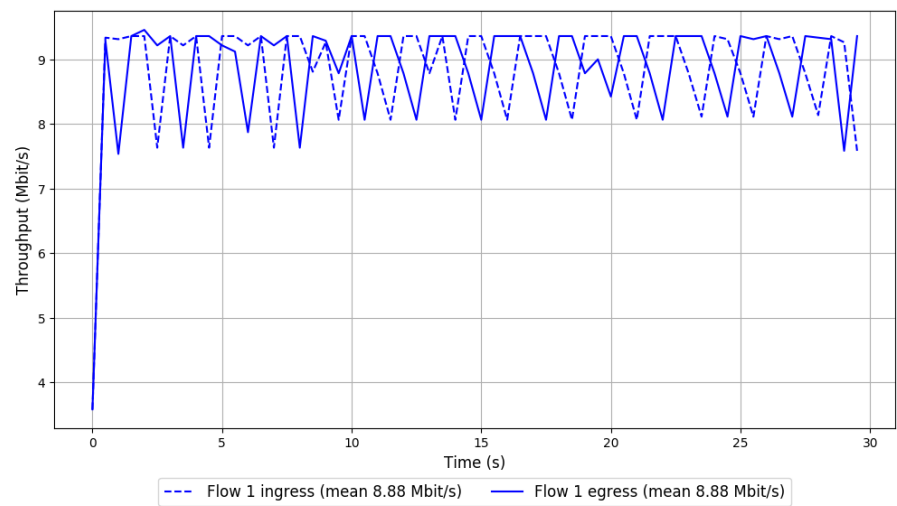
-- Flow 1:

Average throughput: 8.88 Mbit/s

95th percentile per-packet one-way delay: 54.262 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-08-17 01:20:43

End at: 2017-08-17 01:21:13

Below is generated by plot.py at 2017-08-17 04:09:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 114.00 Mbit/s

95th percentile per-packet one-way delay: 106.701 ms

Loss rate: 3.88%

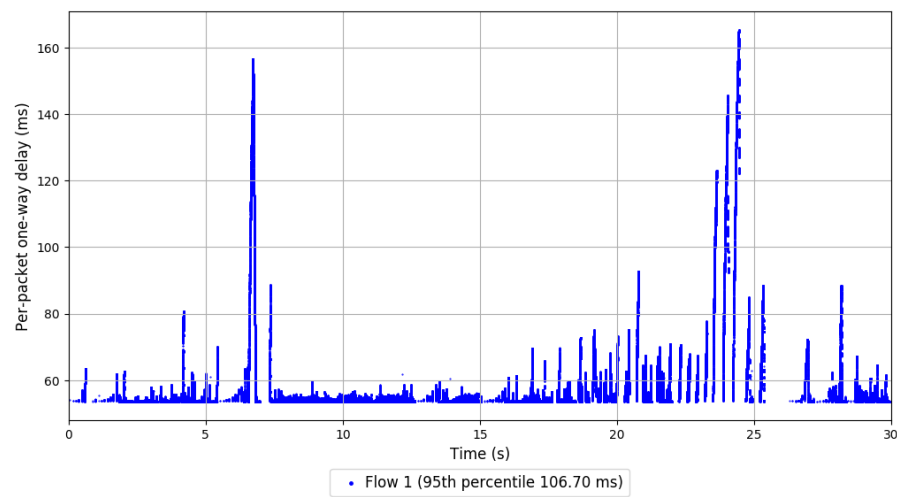
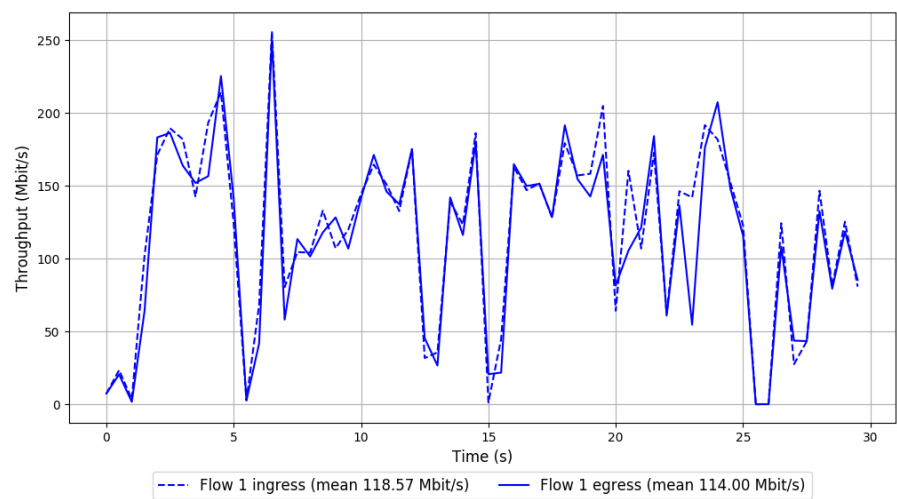
-- Flow 1:

Average throughput: 114.00 Mbit/s

95th percentile per-packet one-way delay: 106.701 ms

Loss rate: 3.88%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-08-17 01:30:28

End at: 2017-08-17 01:30:58

Below is generated by plot.py at 2017-08-17 04:09:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 161.84 Mbit/s

95th percentile per-packet one-way delay: 56.515 ms

Loss rate: 0.07%

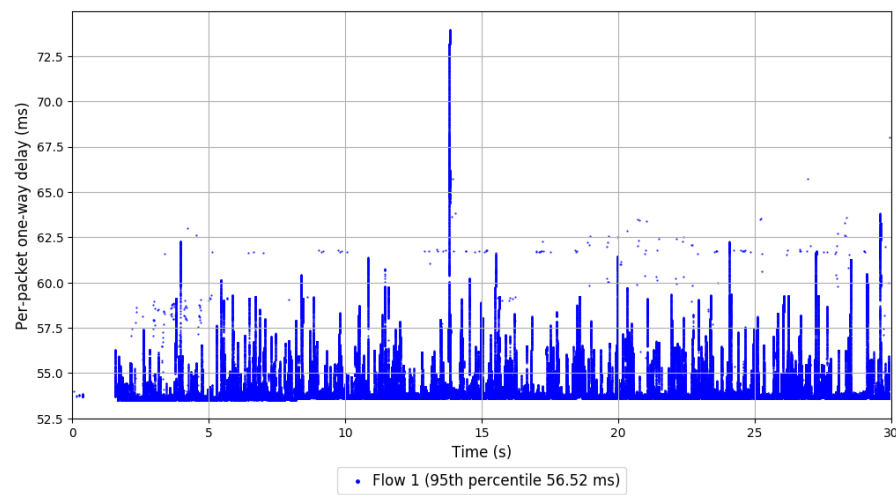
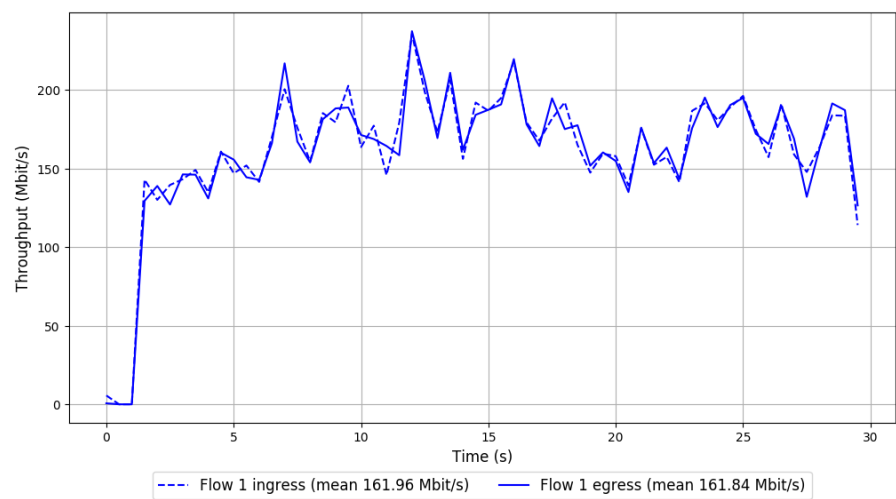
-- Flow 1:

Average throughput: 161.84 Mbit/s

95th percentile per-packet one-way delay: 56.515 ms

Loss rate: 0.07%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-08-17 01:40:46

End at: 2017-08-17 01:41:16

Below is generated by plot.py at 2017-08-17 04:09:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 129.88 Mbit/s

95th percentile per-packet one-way delay: 65.899 ms

Loss rate: 34.63%

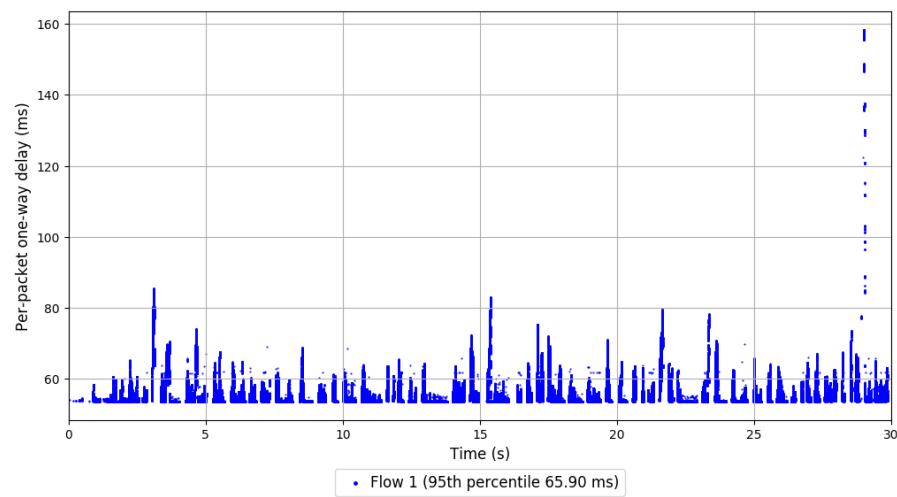
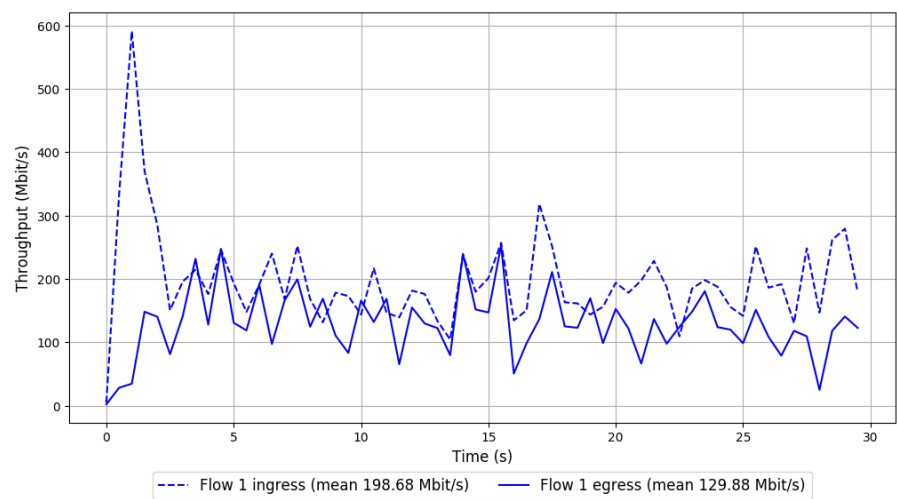
-- Flow 1:

Average throughput: 129.88 Mbit/s

95th percentile per-packet one-way delay: 65.899 ms

Loss rate: 34.63%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-08-17 01:51:14

End at: 2017-08-17 01:51:44

Below is generated by plot.py at 2017-08-17 04:09:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.23 Mbit/s

95th percentile per-packet one-way delay: 54.532 ms

Loss rate: 85.58%

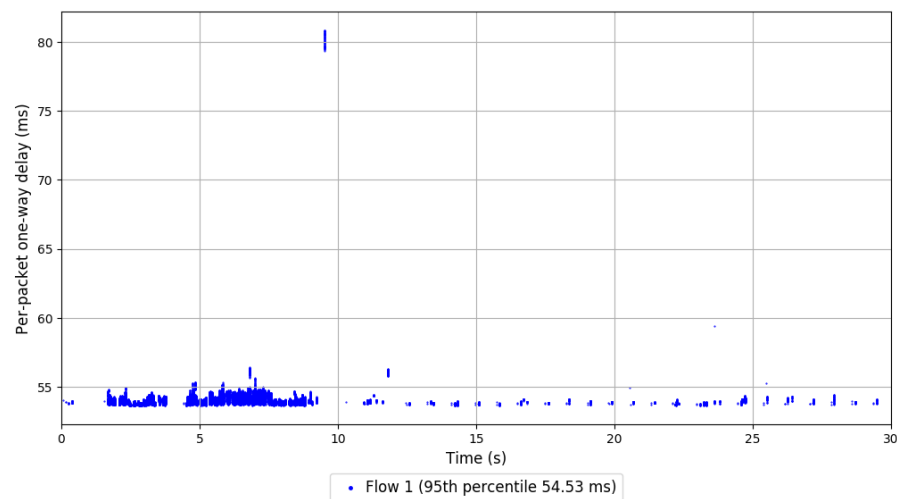
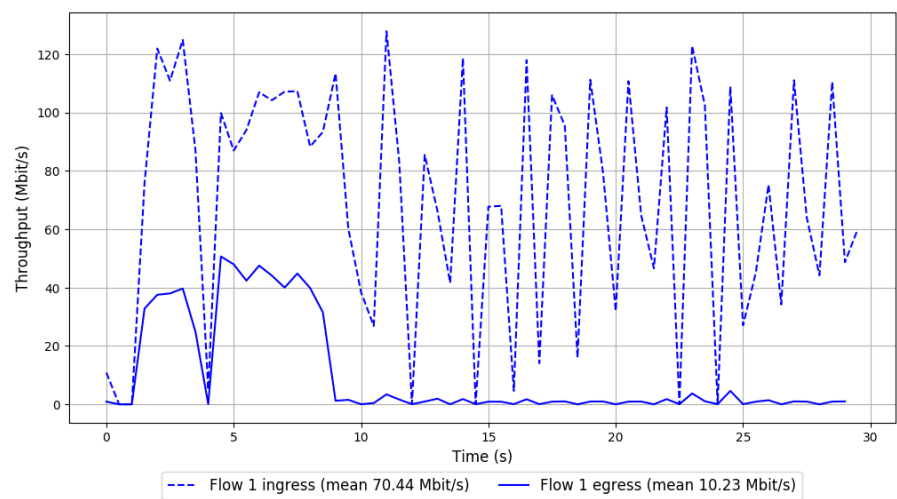
-- Flow 1:

Average throughput: 10.23 Mbit/s

95th percentile per-packet one-way delay: 54.532 ms

Loss rate: 85.58%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-08-17 02:01:31

End at: 2017-08-17 02:02:01

Below is generated by plot.py at 2017-08-17 04:09:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.22 Mbit/s

95th percentile per-packet one-way delay: 58.681 ms

Loss rate: 2.20%

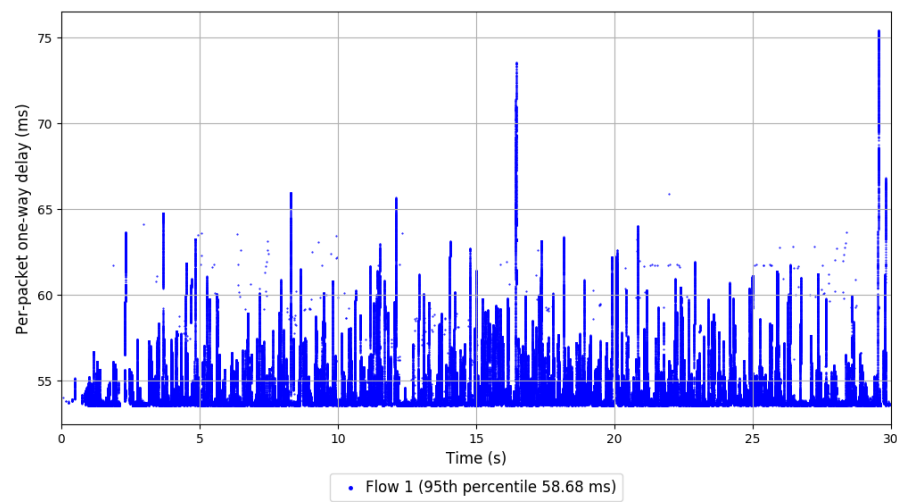
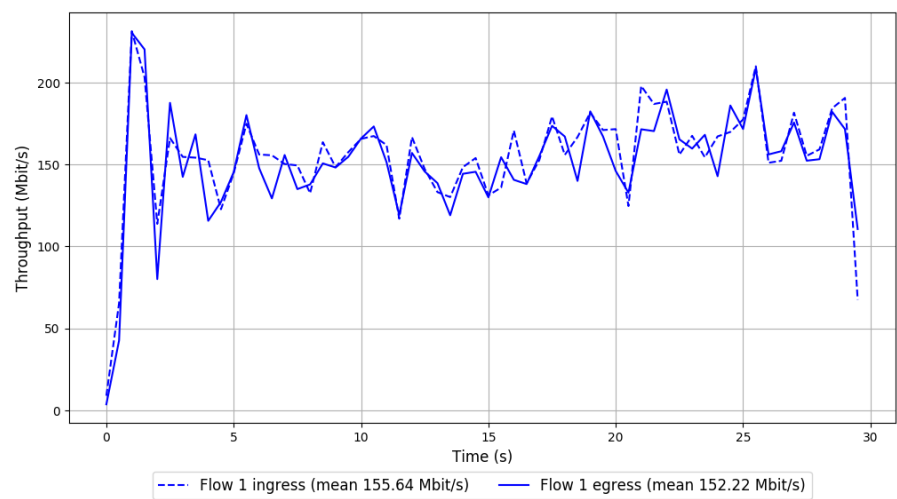
-- Flow 1:

Average throughput: 152.22 Mbit/s

95th percentile per-packet one-way delay: 58.681 ms

Loss rate: 2.20%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-08-17 02:11:37

End at: 2017-08-17 02:12:07

Below is generated by plot.py at 2017-08-17 04:10:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.55 Mbit/s

95th percentile per-packet one-way delay: 71.330 ms

Loss rate: 1.90%

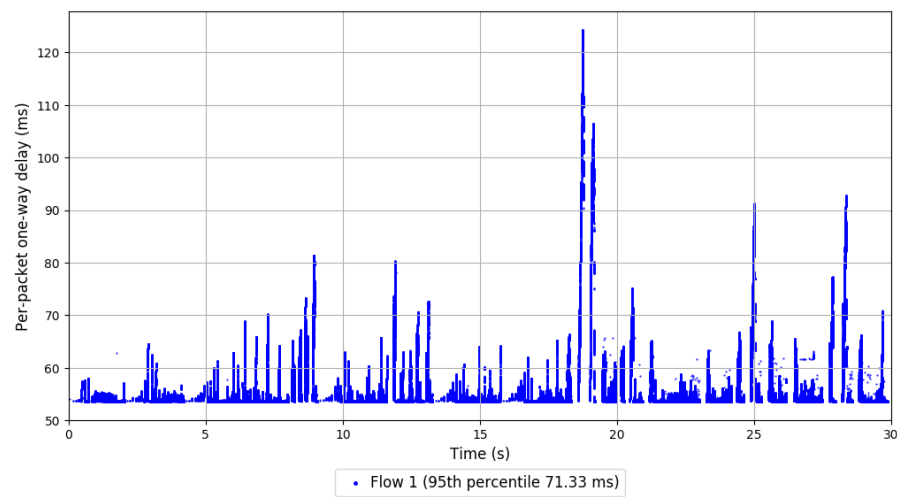
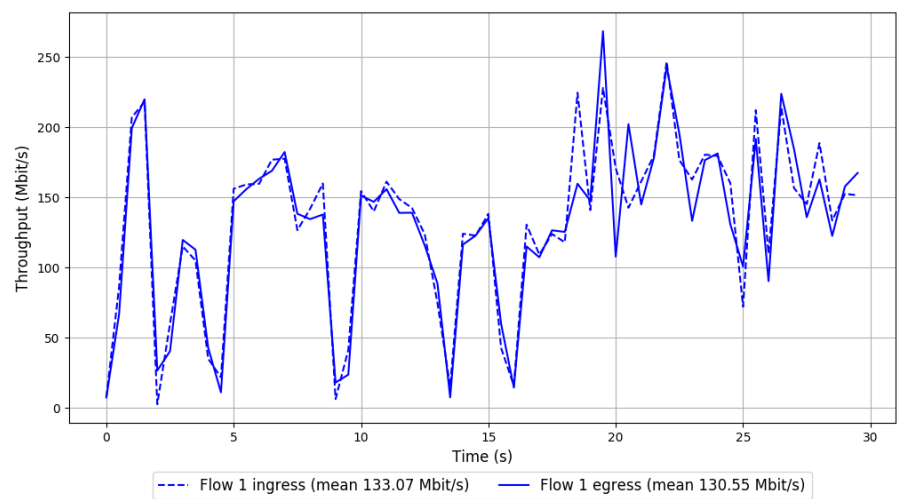
-- Flow 1:

Average throughput: 130.55 Mbit/s

95th percentile per-packet one-way delay: 71.330 ms

Loss rate: 1.90%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-08-17 02:21:49

End at: 2017-08-17 02:22:19

Below is generated by plot.py at 2017-08-17 04:10:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.99 Mbit/s

95th percentile per-packet one-way delay: 66.846 ms

Loss rate: 13.93%

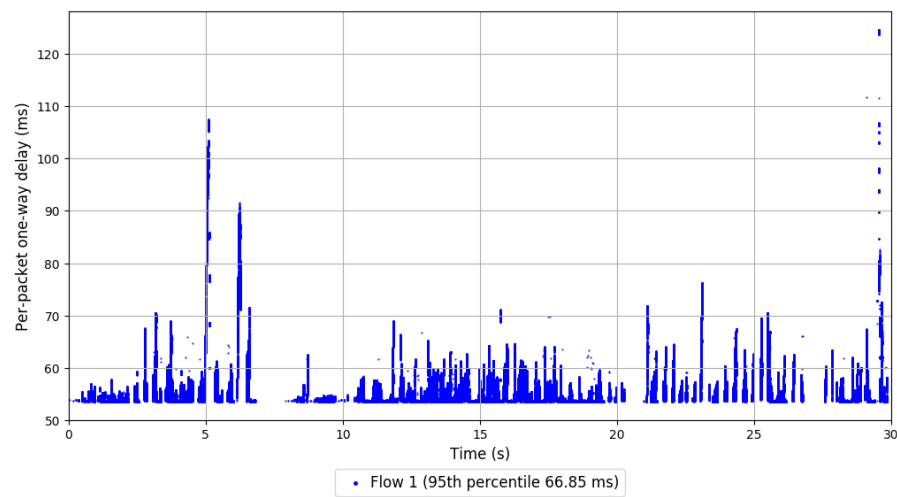
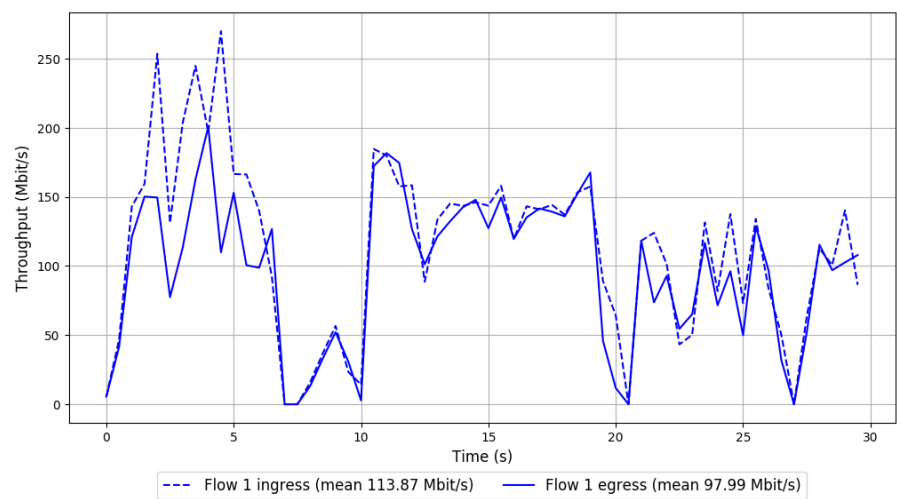
-- Flow 1:

Average throughput: 97.99 Mbit/s

95th percentile per-packet one-way delay: 66.846 ms

Loss rate: 13.93%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-08-17 02:32:19

End at: 2017-08-17 02:32:49

Below is generated by plot.py at 2017-08-17 04:10:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.88 Mbit/s

95th percentile per-packet one-way delay: 64.739 ms

Loss rate: 1.33%

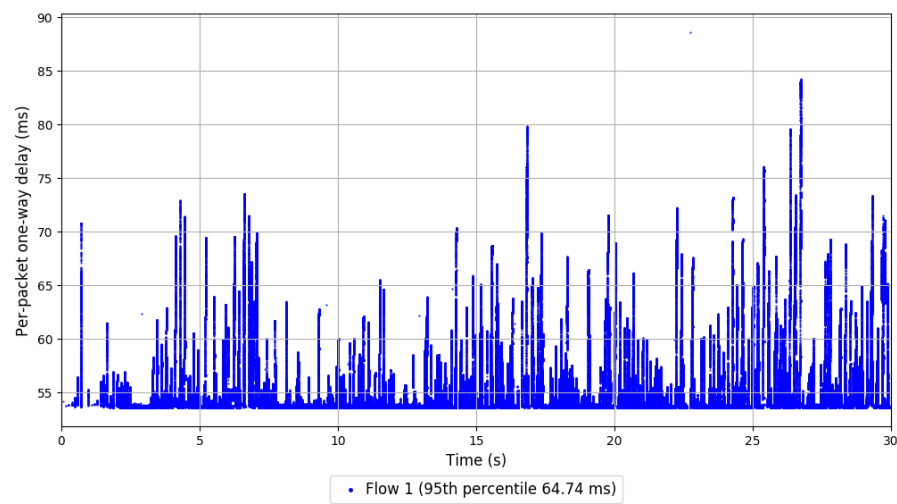
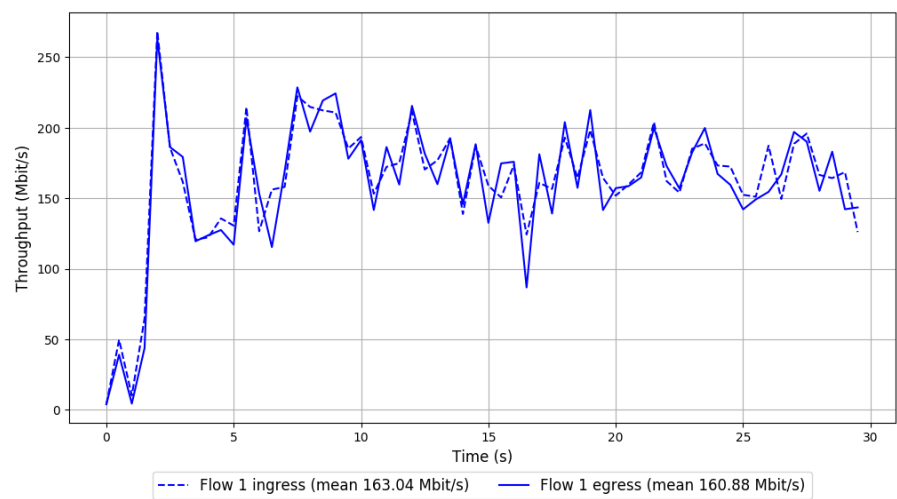
-- Flow 1:

Average throughput: 160.88 Mbit/s

95th percentile per-packet one-way delay: 64.739 ms

Loss rate: 1.33%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-08-17 02:42:23

End at: 2017-08-17 02:42:53

Below is generated by plot.py at 2017-08-17 04:10:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 108.97 Mbit/s

95th percentile per-packet one-way delay: 61.507 ms

Loss rate: 40.35%

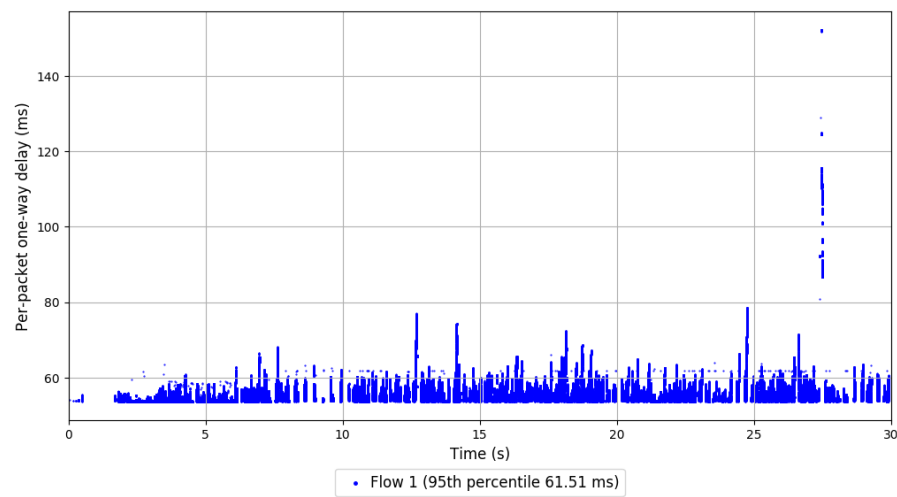
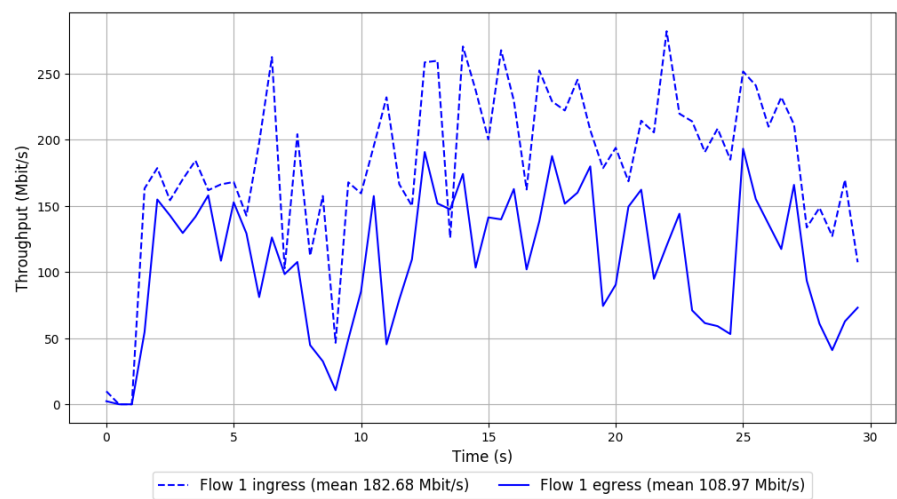
-- Flow 1:

Average throughput: 108.97 Mbit/s

95th percentile per-packet one-way delay: 61.507 ms

Loss rate: 40.35%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-08-17 02:52:46

End at: 2017-08-17 02:53:16

Below is generated by plot.py at 2017-08-17 04:10:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.46 Mbit/s

95th percentile per-packet one-way delay: 54.643 ms

Loss rate: 83.65%

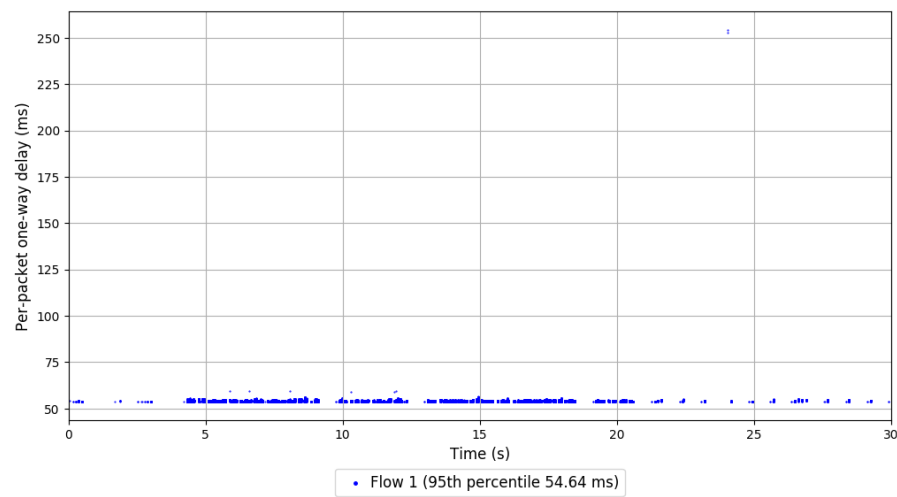
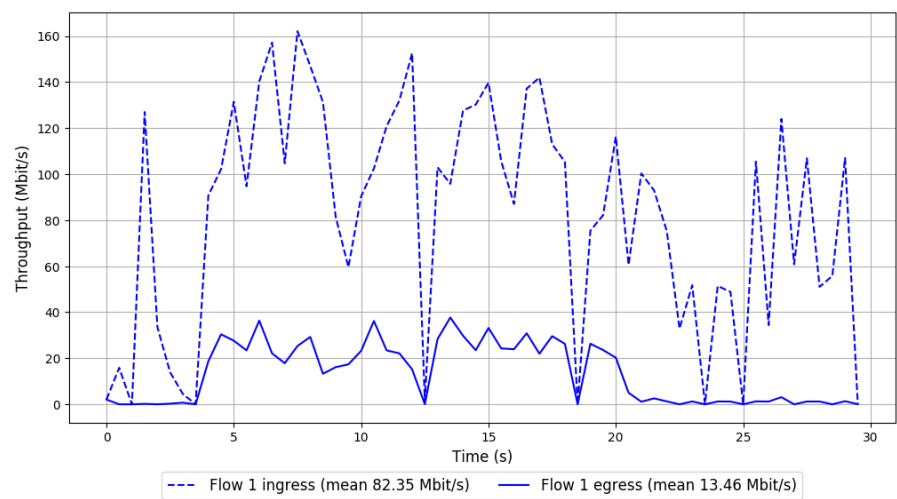
-- Flow 1:

Average throughput: 13.46 Mbit/s

95th percentile per-packet one-way delay: 54.643 ms

Loss rate: 83.65%

Run 10: Report of Verus — Data Link

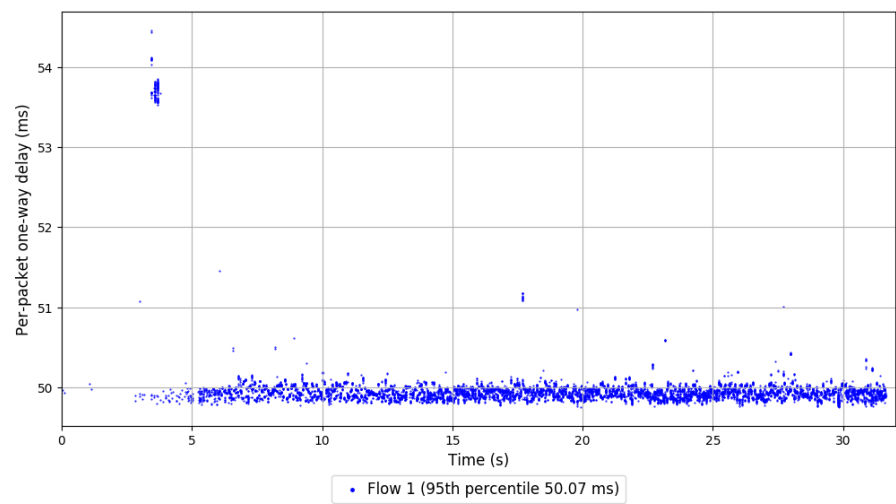
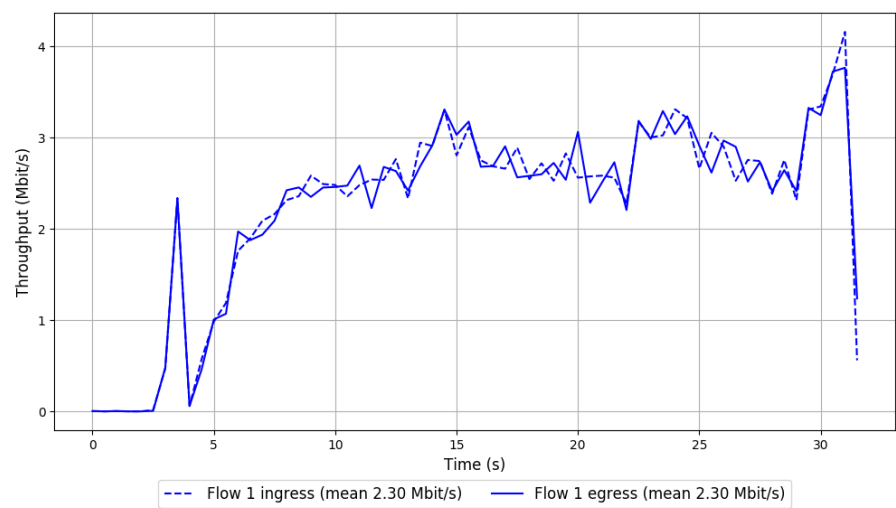


```
Run 1: Statistics of WebRTC media

Start at: 2017-08-17 01:26:32
End at: 2017-08-17 01:27:02

# Below is generated by plot.py at 2017-08-17 04:10:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 50.070 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 50.070 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link

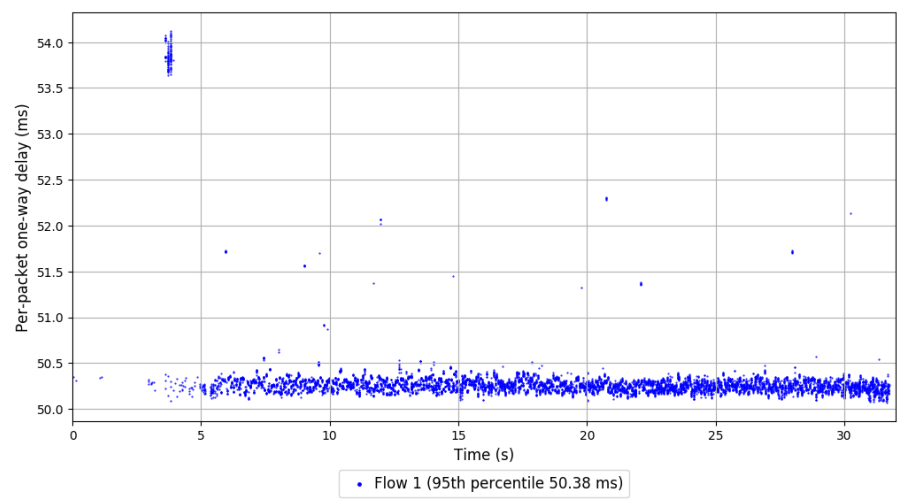
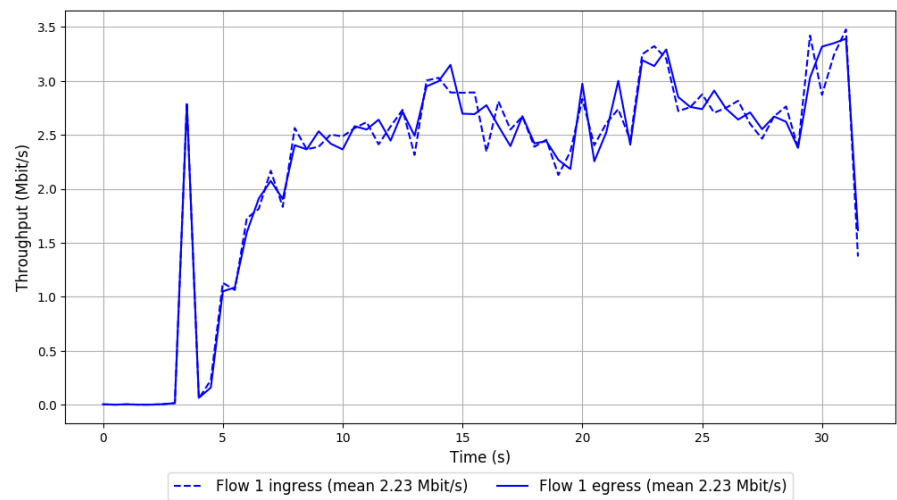


```
Run 2: Statistics of WebRTC media

Start at: 2017-08-17 01:36:34
End at: 2017-08-17 01:37:04

# Below is generated by plot.py at 2017-08-17 04:10:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 50.381 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 50.381 ms
Loss rate: 0.01%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-08-17 01:47:03

End at: 2017-08-17 01:47:33

Below is generated by plot.py at 2017-08-17 04:10:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 53.919 ms

Loss rate: 0.00%

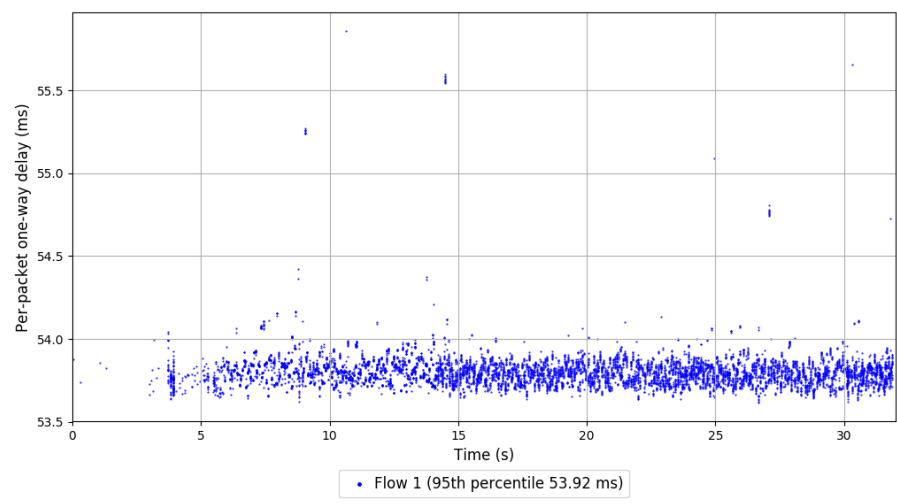
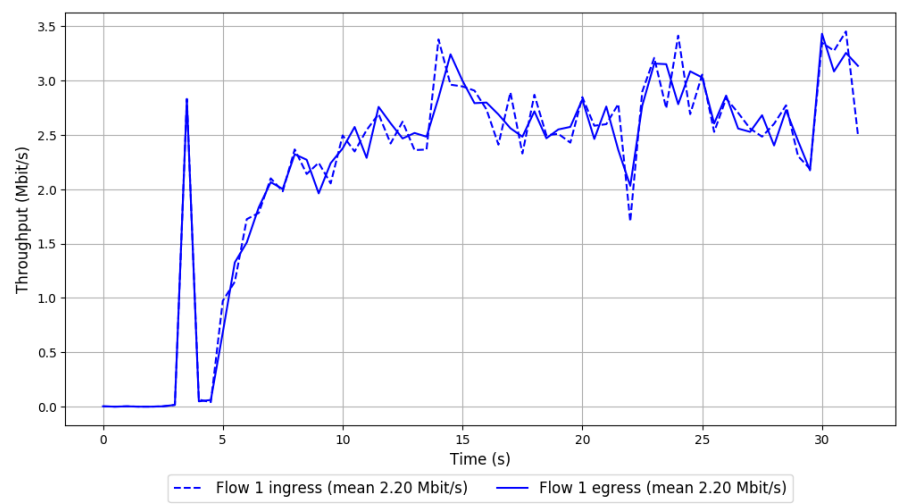
-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 53.919 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-08-17 01:57:18

End at: 2017-08-17 01:57:48

Below is generated by plot.py at 2017-08-17 04:10:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 50.713 ms

Loss rate: 0.00%

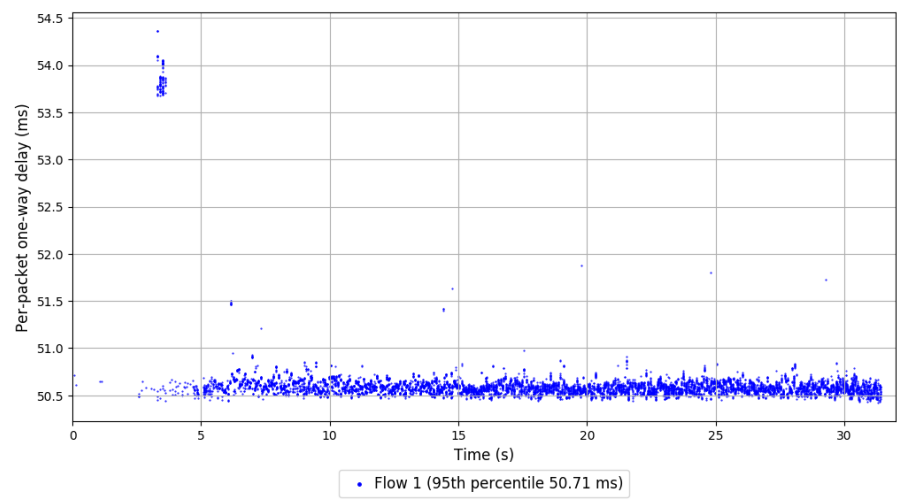
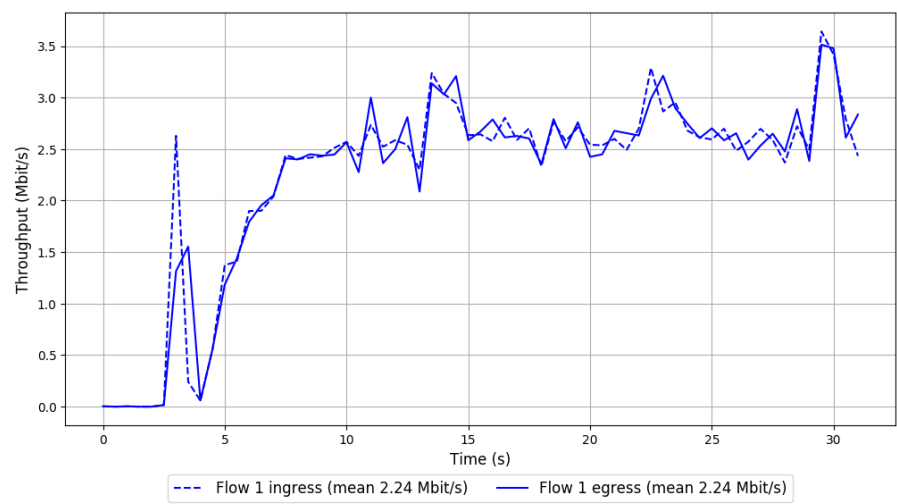
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 50.713 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-08-17 02:07:36

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

Below is generated by plot.py at 2017-08-17 04:10:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 50.469 ms

Loss rate: 0.00%

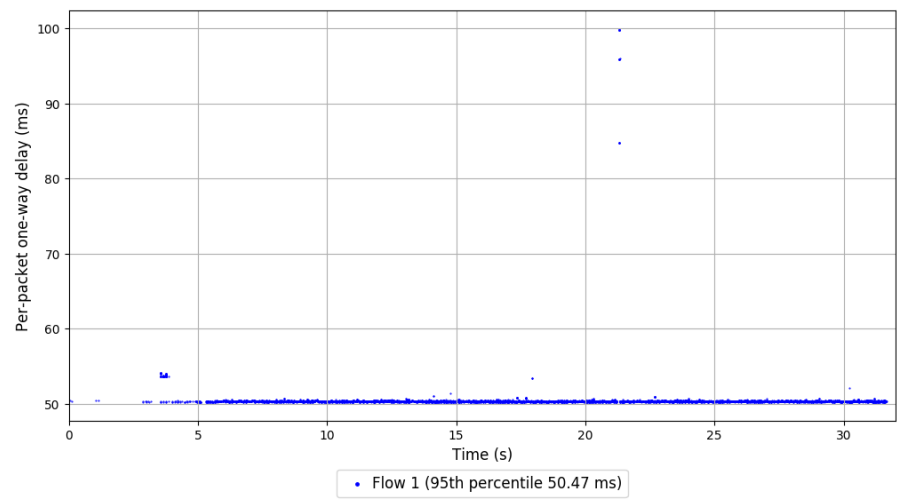
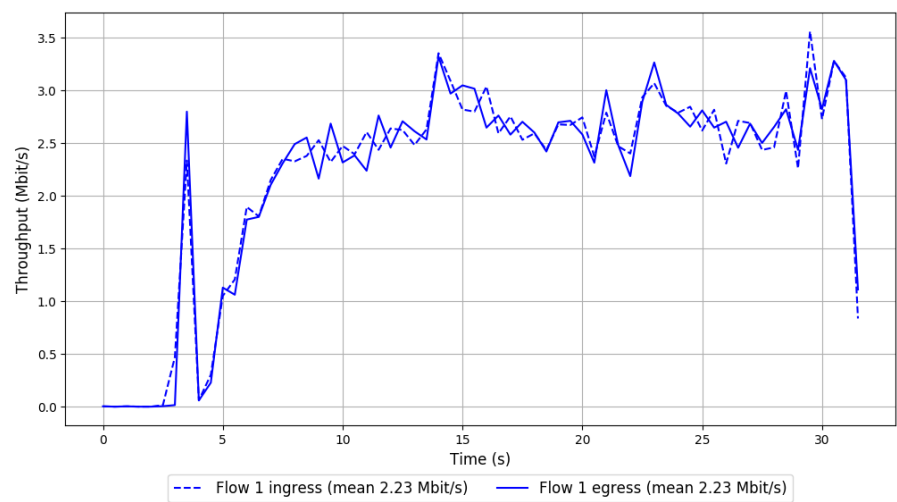
-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 50.469 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-08-17 02:17:44

End at: 2017-08-17 02:18:14

Below is generated by plot.py at 2017-08-17 04:10:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 50.282 ms

Loss rate: 0.96%

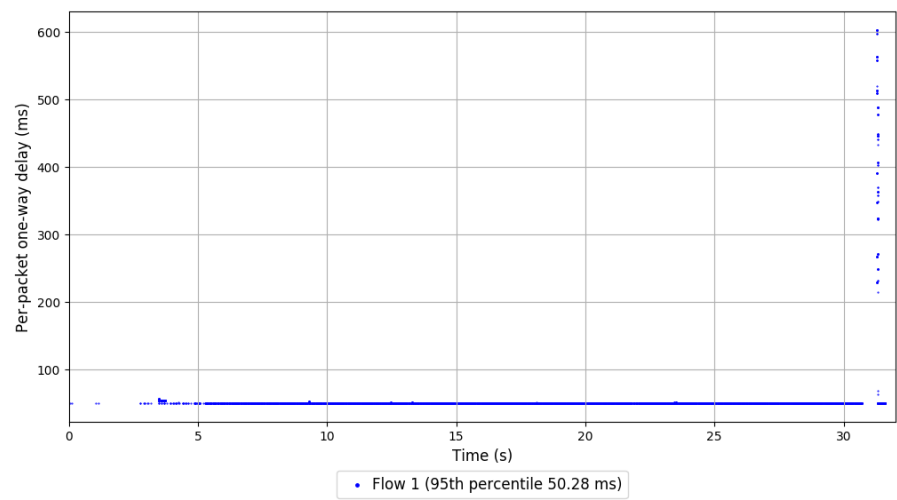
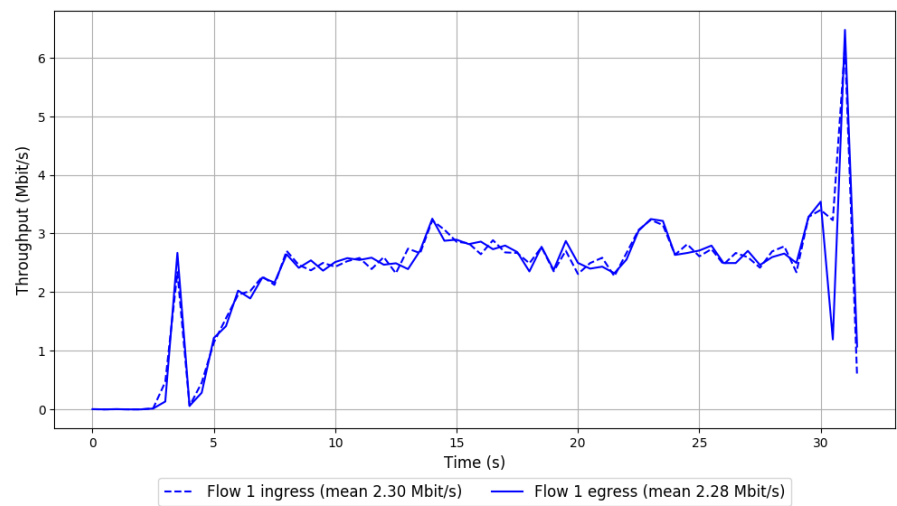
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 50.282 ms

Loss rate: 0.96%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-08-17 02:27:46

End at: 2017-08-17 02:28:16

Below is generated by plot.py at 2017-08-17 04:10:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 53.906 ms

Loss rate: 0.00%

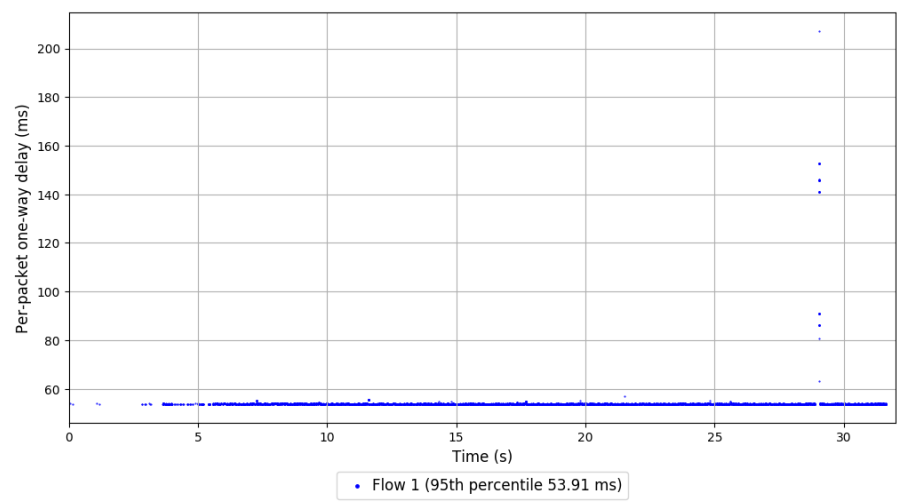
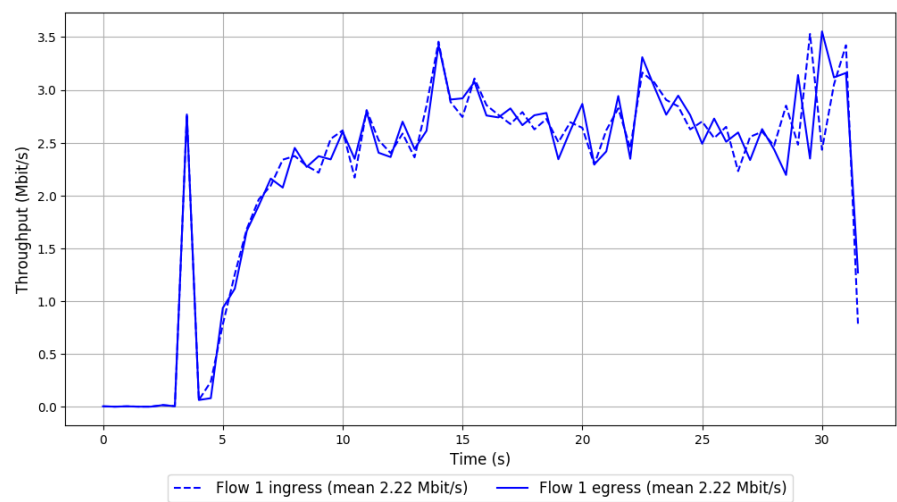
-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 53.906 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-08-17 02:38:30

End at: 2017-08-17 02:39:00

Below is generated by plot.py at 2017-08-17 04:10:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

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

Loss rate: 0.00%

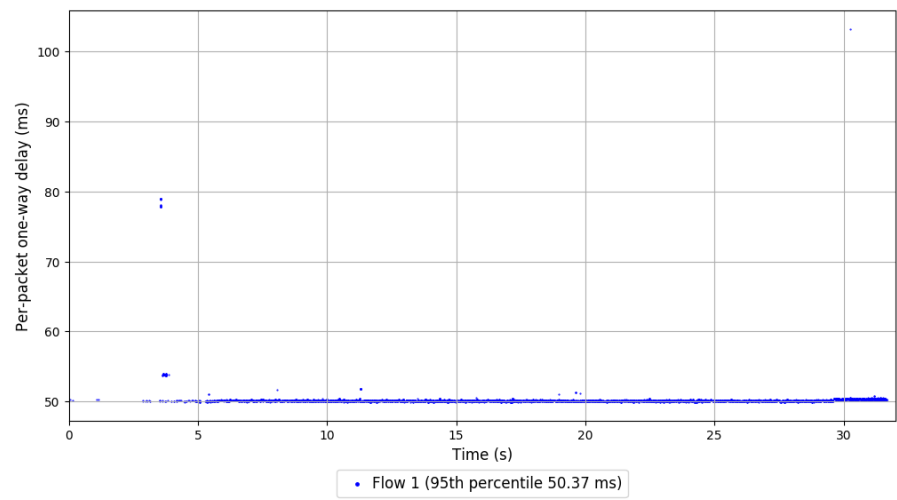
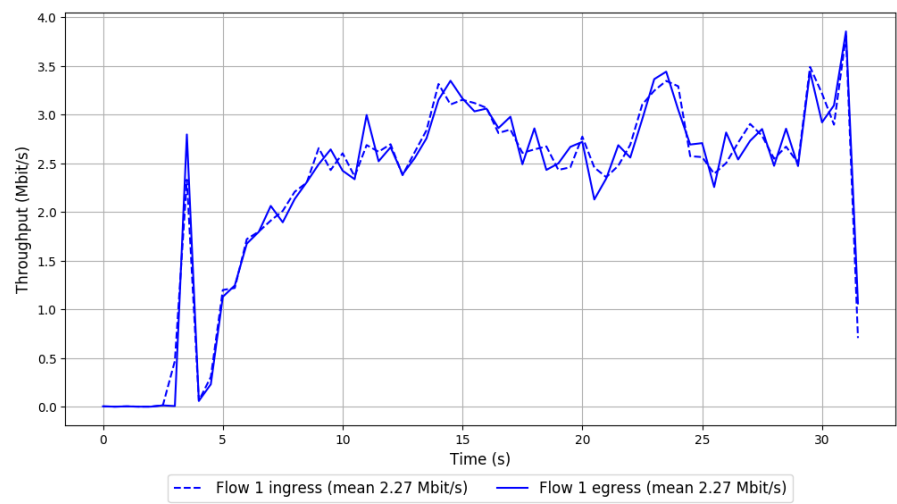
-- Flow 1:

Average throughput: 2.27 Mbit/s

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

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-08-17 02:48:39

End at: 2017-08-17 02:49:09

Below is generated by plot.py at 2017-08-17 04:10:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 50.101 ms

Loss rate: 0.00%

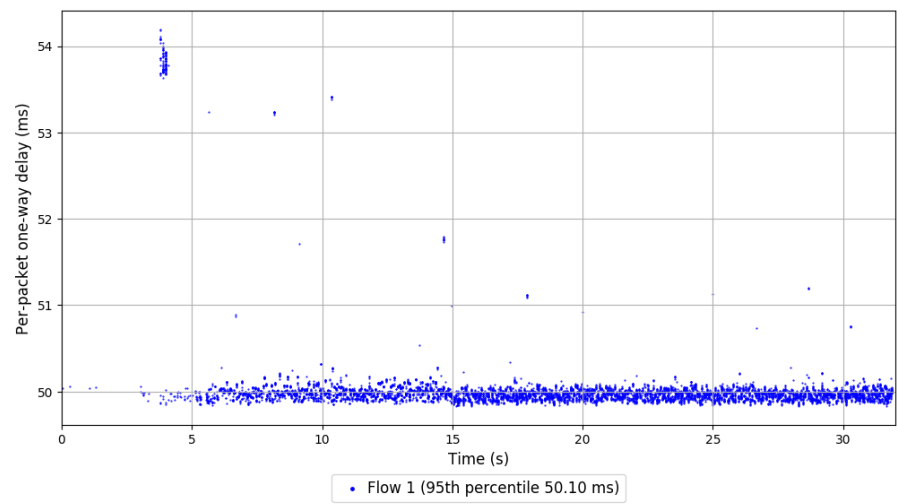
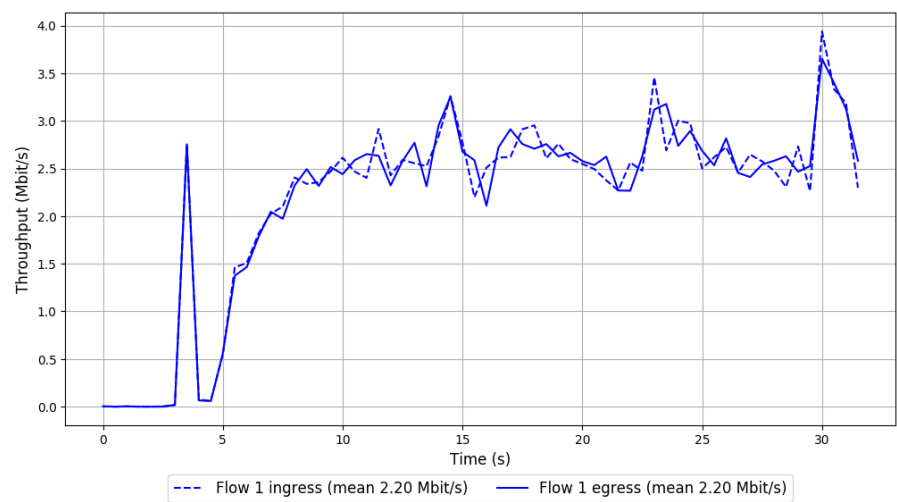
-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 50.101 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-08-17 02:58:48

End at: 2017-08-17 02:59:18

Below is generated by plot.py at 2017-08-17 04:10:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.23 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

