

Pantheon Report

Generated at 2018-02-16 12:54:51 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

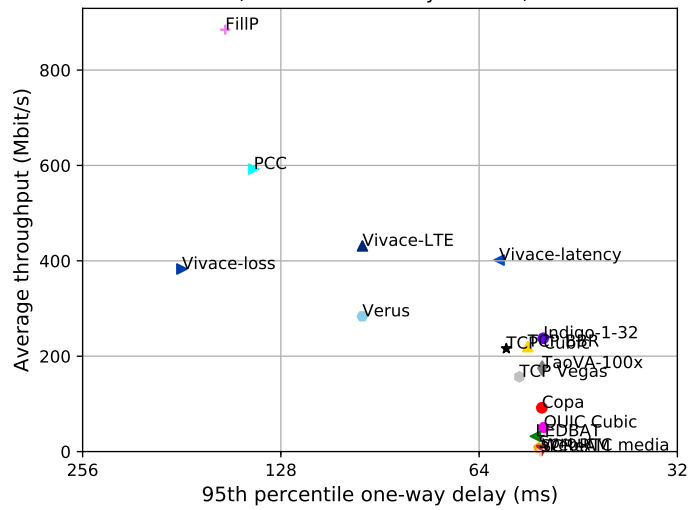
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

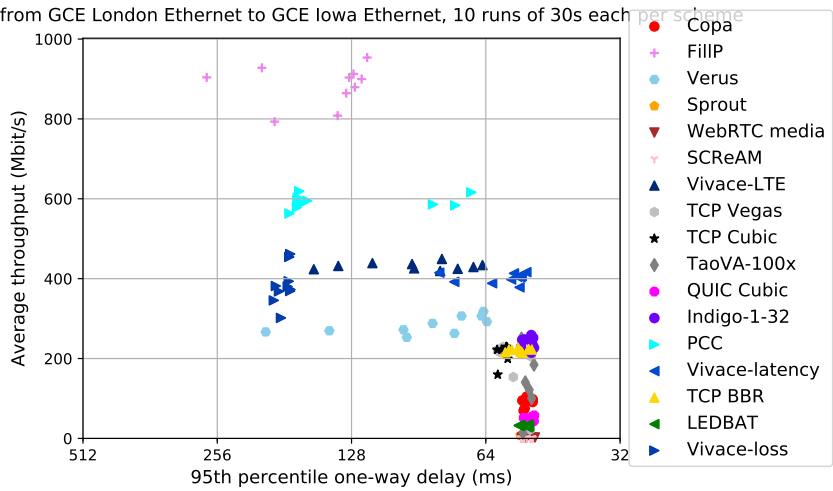
Git summary:

```
branch: master @ cccb2d77344969a7bac1df6edf6c0cfb6c77a6f8
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 8400b8926887fc4cf8c795a1d7ce2c8ac041ec72
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



test from GCE London Ethernet to GCE Iowa Ethernet, 10 runs of 30s each



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	220.13	54.01	0.35
TCP Cubic	10	215.99	58.20	0.31
LEDBAT	10	32.08	52.58	0.65
PCC	10	592.55	140.75	1.82
QUIC Cubic	10	50.52	51.07	0.52
SCReAM	10	0.22	51.63	0.35
WebRTC media	10	2.22	51.42	0.40
Sprout	10	7.91	51.96	0.38
TaoVA-100x	10	175.18	51.35	0.36
TCP Vegas	10	156.76	55.60	0.32
Verus	10	283.58	96.29	0.88
Copa	10	91.88	51.40	0.30
FillP	10	884.71	155.48	6.54
Indigo-1-32	10	237.62	51.14	0.33
Vivace-latency	10	401.58	59.70	0.42
Vivace-loss	10	382.83	180.89	4.66
Vivace-LTE	10	431.34	96.24	0.47

Run 1: Statistics of TCP BBR

Start at: 2018-02-16 06:12:18

End at: 2018-02-16 06:12:48

Below is generated by plot.py at 2018-02-16 11:14:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.18 Mbit/s

95th percentile per-packet one-way delay: 52.973 ms

Loss rate: 0.38%

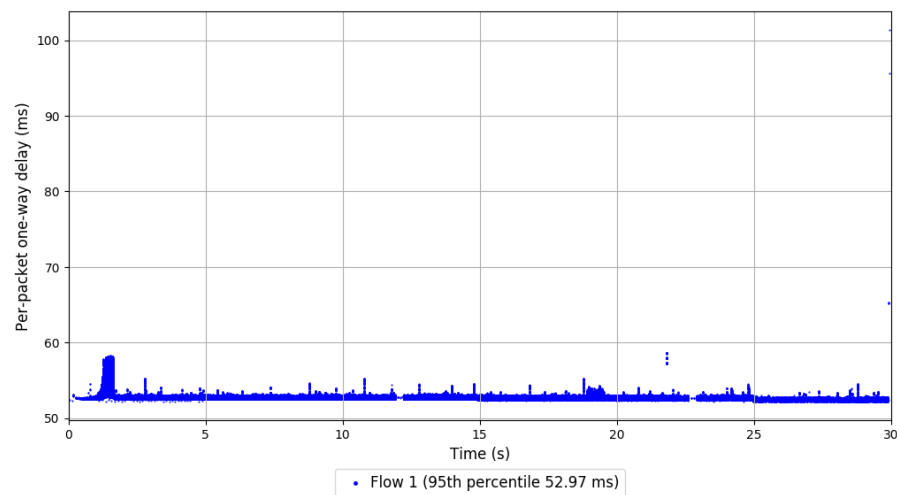
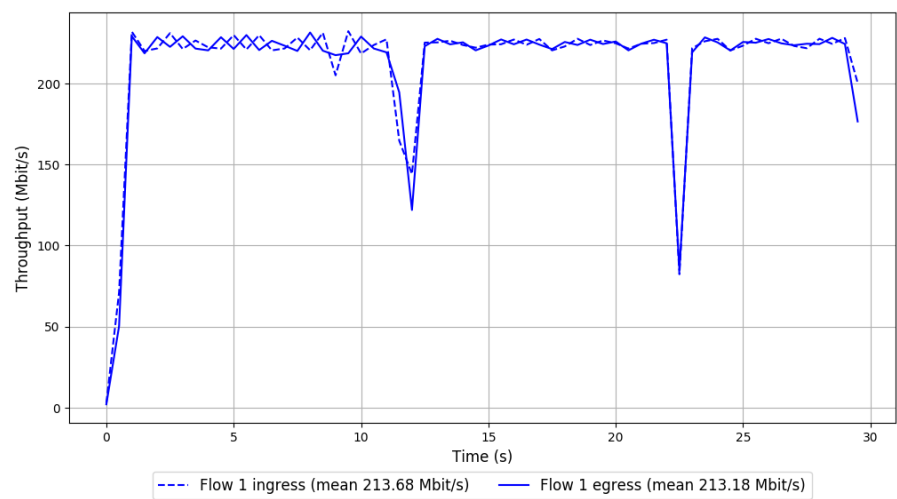
-- Flow 1:

Average throughput: 213.18 Mbit/s

95th percentile per-packet one-way delay: 52.973 ms

Loss rate: 0.38%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-16 06:27:21

End at: 2018-02-16 06:27:51

Below is generated by plot.py at 2018-02-16 11:14:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.35 Mbit/s

95th percentile per-packet one-way delay: 57.879 ms

Loss rate: 0.36%

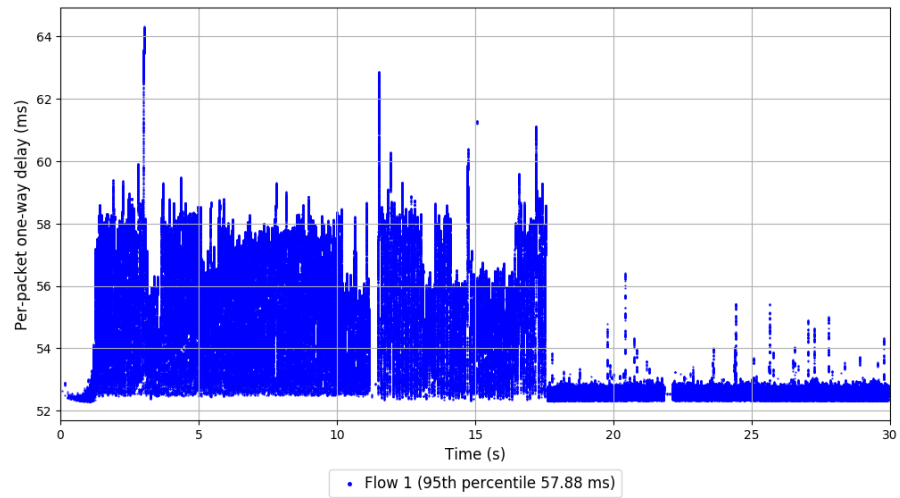
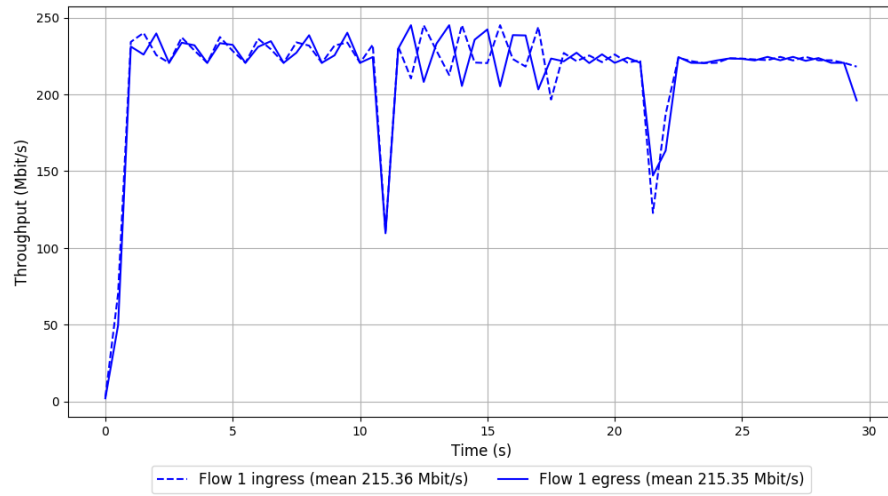
-- Flow 1:

Average throughput: 215.35 Mbit/s

95th percentile per-packet one-way delay: 57.879 ms

Loss rate: 0.36%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-16 06:42:02

End at: 2018-02-16 06:42:32

Below is generated by plot.py at 2018-02-16 11:14:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.41 Mbit/s

95th percentile per-packet one-way delay: 53.213 ms

Loss rate: 0.36%

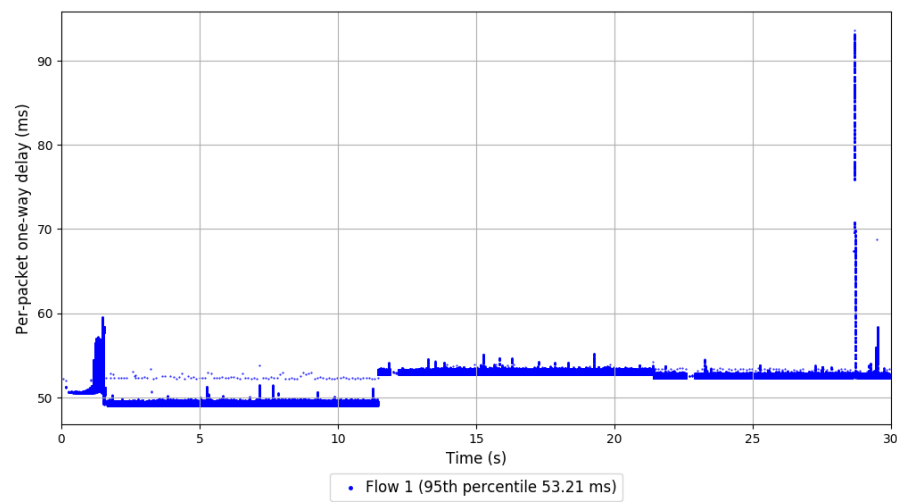
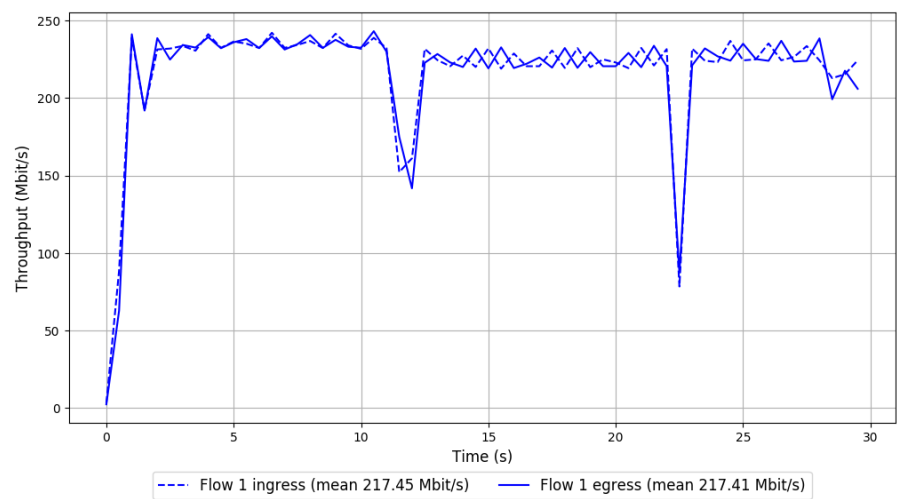
-- Flow 1:

Average throughput: 217.41 Mbit/s

95th percentile per-packet one-way delay: 53.213 ms

Loss rate: 0.36%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-16 06:56:53

End at: 2018-02-16 06:57:23

Below is generated by plot.py at 2018-02-16 11:14:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.57 Mbit/s

95th percentile per-packet one-way delay: 53.796 ms

Loss rate: 0.37%

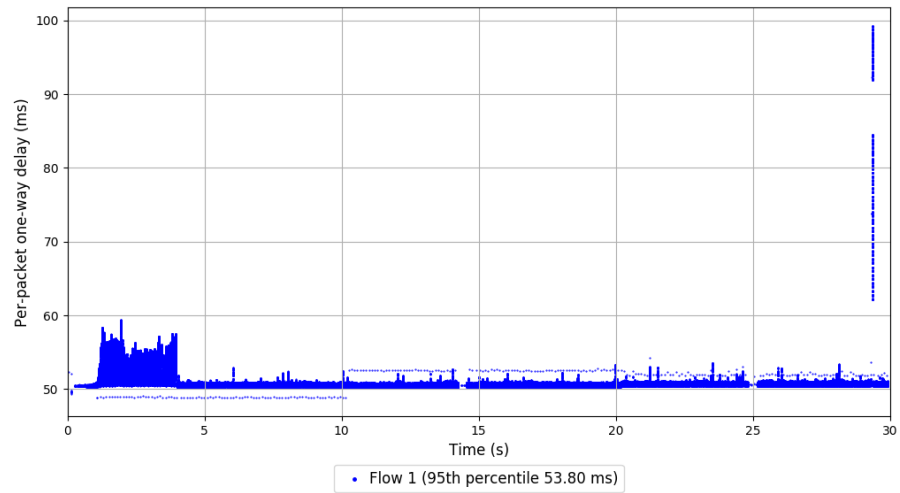
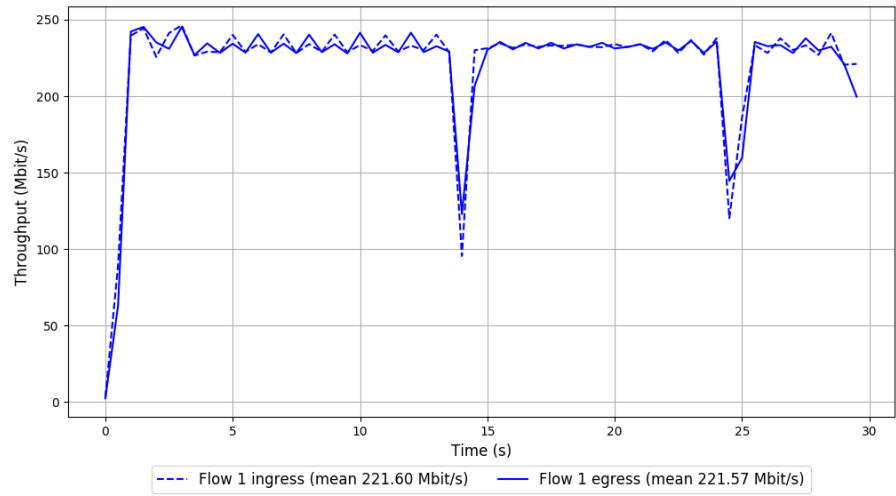
-- Flow 1:

Average throughput: 221.57 Mbit/s

95th percentile per-packet one-way delay: 53.796 ms

Loss rate: 0.37%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-16 07:11:50

End at: 2018-02-16 07:12:20

Below is generated by plot.py at 2018-02-16 11:14:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.95 Mbit/s

95th percentile per-packet one-way delay: 53.438 ms

Loss rate: 0.35%

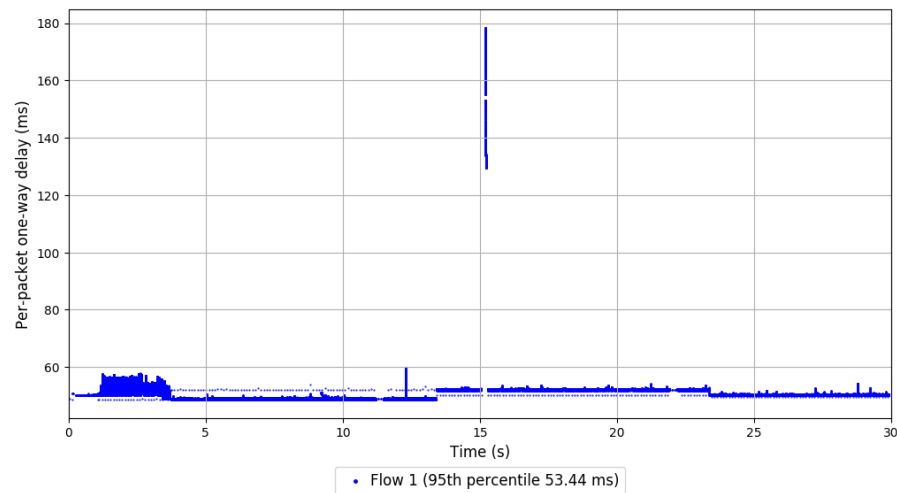
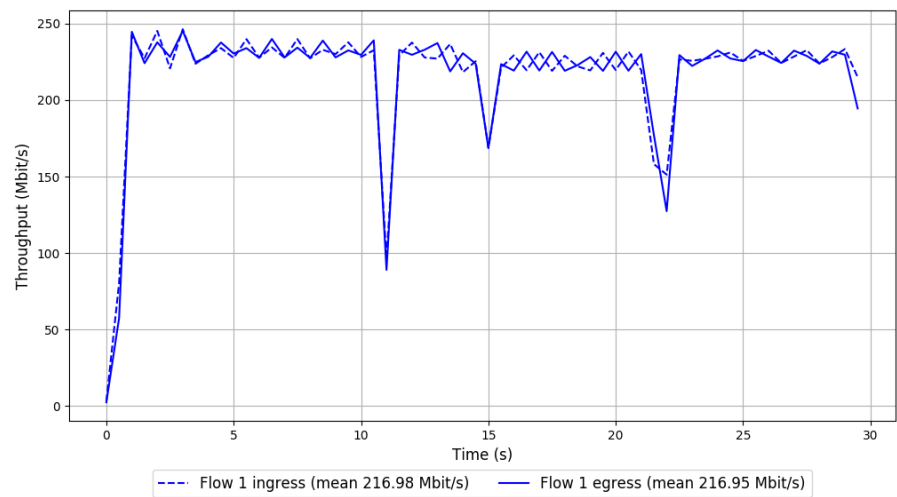
-- Flow 1:

Average throughput: 216.95 Mbit/s

95th percentile per-packet one-way delay: 53.438 ms

Loss rate: 0.35%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-16 07:26:36

End at: 2018-02-16 07:27:06

Below is generated by plot.py at 2018-02-16 11:15:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.50 Mbit/s

95th percentile per-packet one-way delay: 54.157 ms

Loss rate: 0.35%

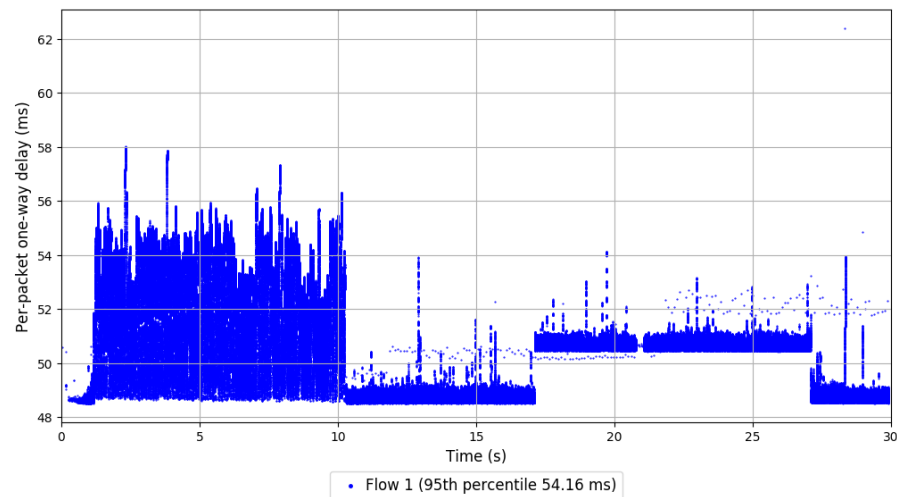
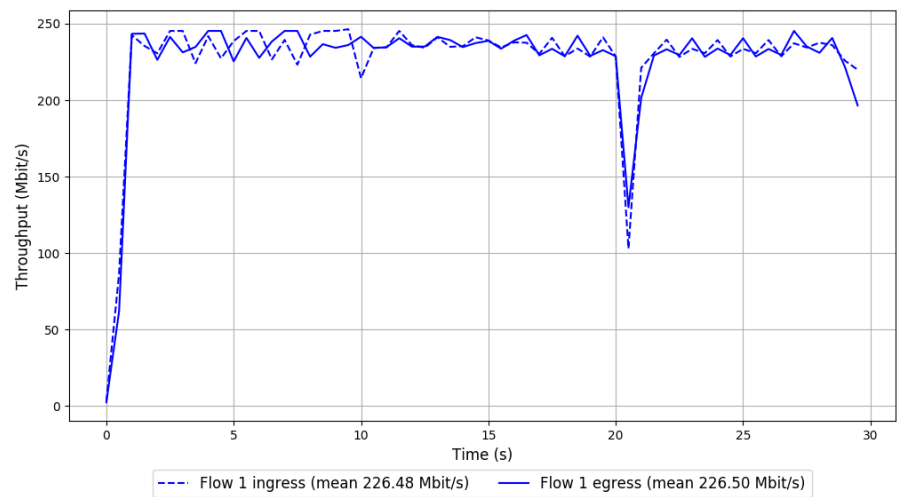
-- Flow 1:

Average throughput: 226.50 Mbit/s

95th percentile per-packet one-way delay: 54.157 ms

Loss rate: 0.35%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-16 07:41:20

End at: 2018-02-16 07:41:50

Below is generated by plot.py at 2018-02-16 11:15:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.00 Mbit/s

95th percentile per-packet one-way delay: 56.800 ms

Loss rate: 0.37%

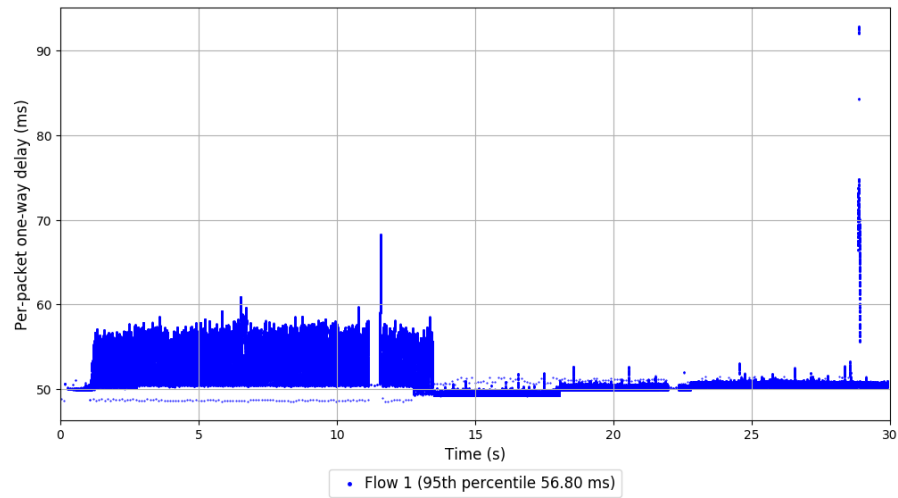
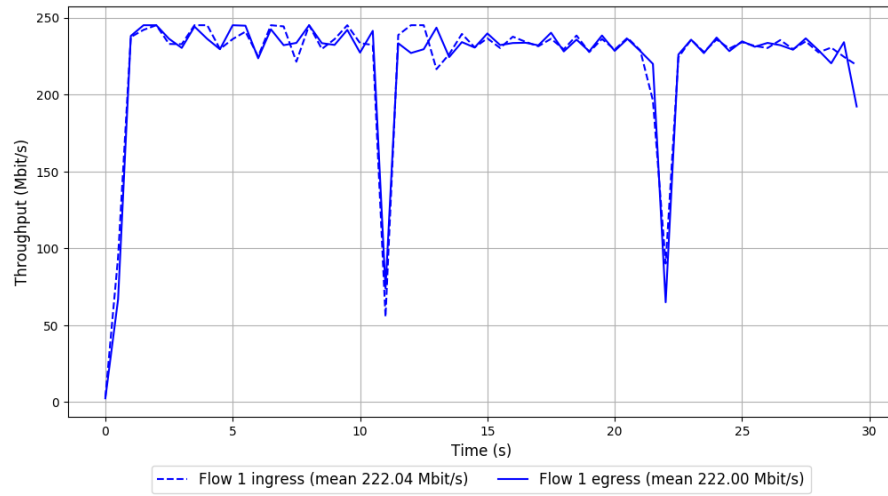
-- Flow 1:

Average throughput: 222.00 Mbit/s

95th percentile per-packet one-way delay: 56.800 ms

Loss rate: 0.37%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-16 07:56:22

End at: 2018-02-16 07:56:52

Below is generated by plot.py at 2018-02-16 11:15:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.92 Mbit/s

95th percentile per-packet one-way delay: 51.346 ms

Loss rate: 0.25%

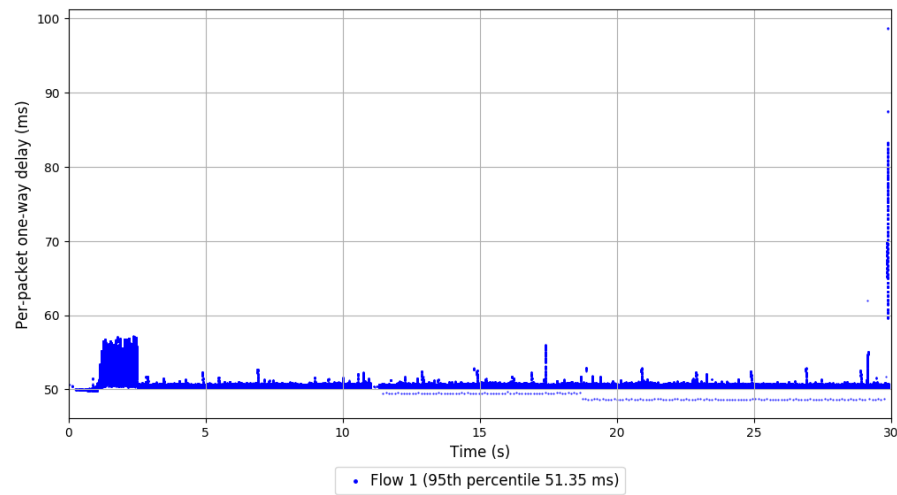
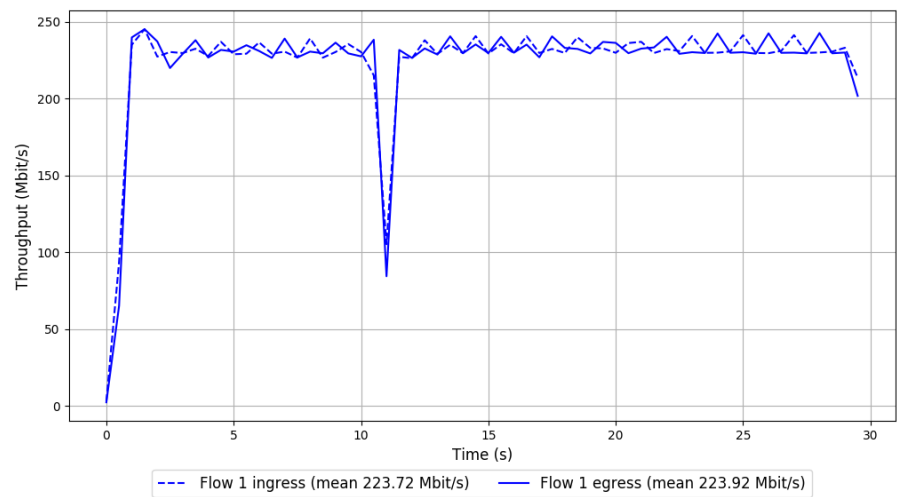
-- Flow 1:

Average throughput: 223.92 Mbit/s

95th percentile per-packet one-way delay: 51.346 ms

Loss rate: 0.25%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-16 08:11:06

End at: 2018-02-16 08:11:36

Below is generated by plot.py at 2018-02-16 11:18:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.92 Mbit/s

95th percentile per-packet one-way delay: 55.965 ms

Loss rate: 0.36%

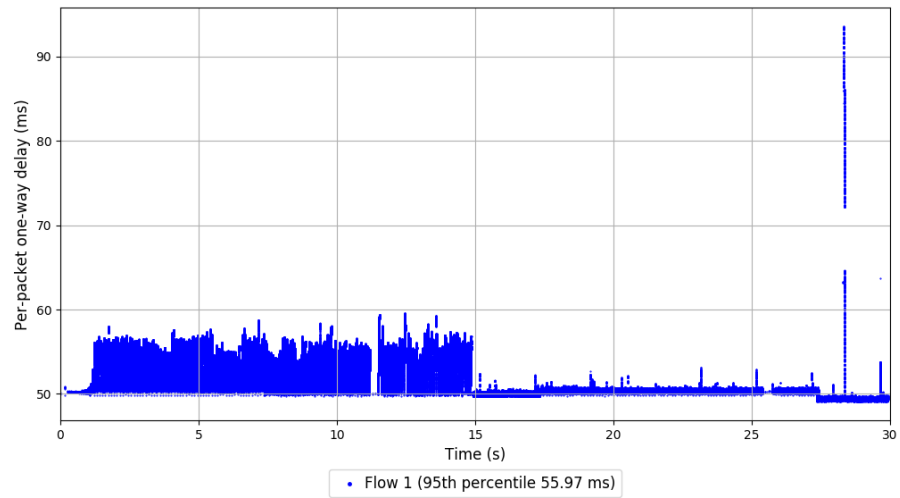
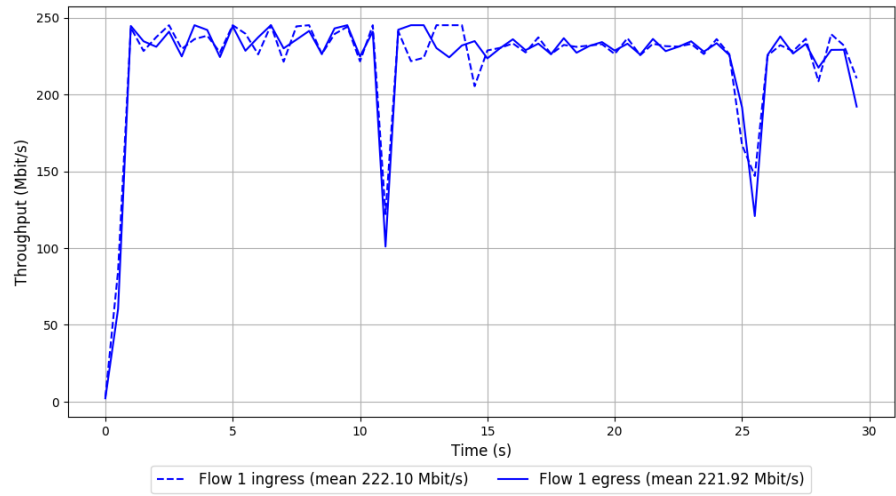
-- Flow 1:

Average throughput: 221.92 Mbit/s

95th percentile per-packet one-way delay: 55.965 ms

Loss rate: 0.36%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-16 08:26:05

End at: 2018-02-16 08:26:35

Below is generated by plot.py at 2018-02-16 11:18:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.52 Mbit/s

95th percentile per-packet one-way delay: 50.487 ms

Loss rate: 0.37%

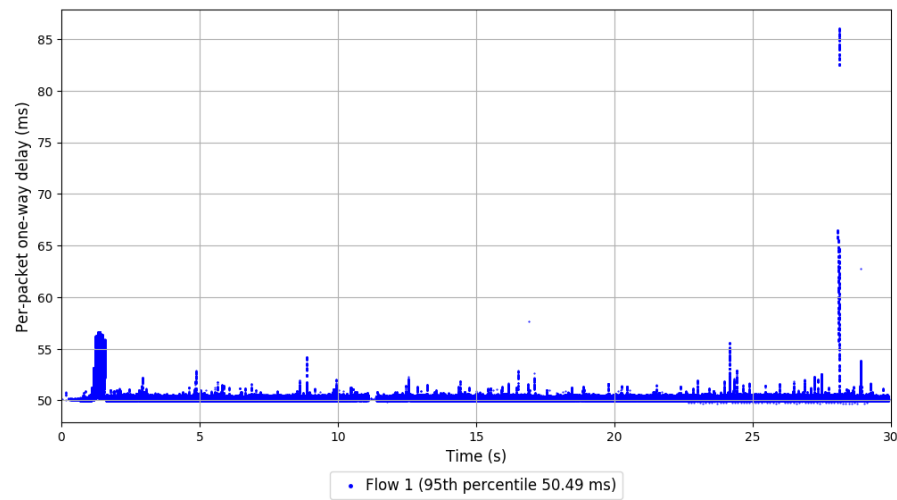
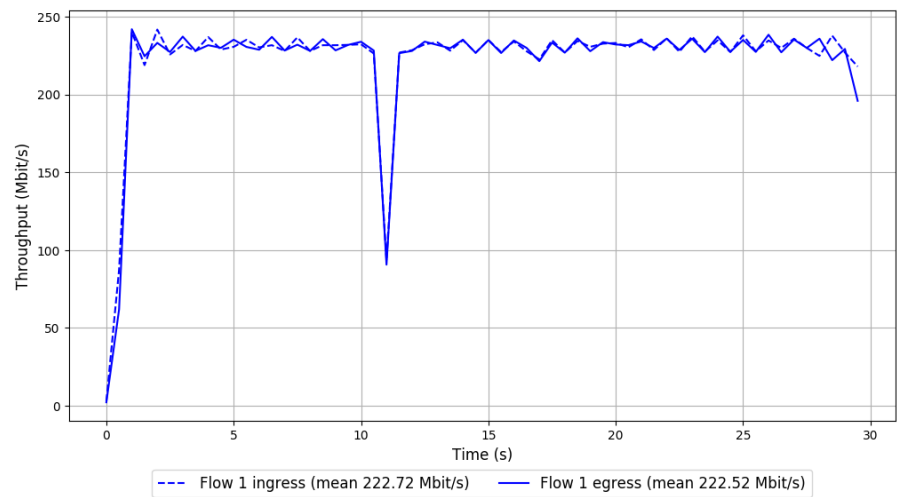
-- Flow 1:

Average throughput: 222.52 Mbit/s

95th percentile per-packet one-way delay: 50.487 ms

Loss rate: 0.37%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-16 06:13:45

End at: 2018-02-16 06:14:15

Below is generated by plot.py at 2018-02-16 11:18:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.03 Mbit/s

95th percentile per-packet one-way delay: 60.366 ms

Loss rate: 0.36%

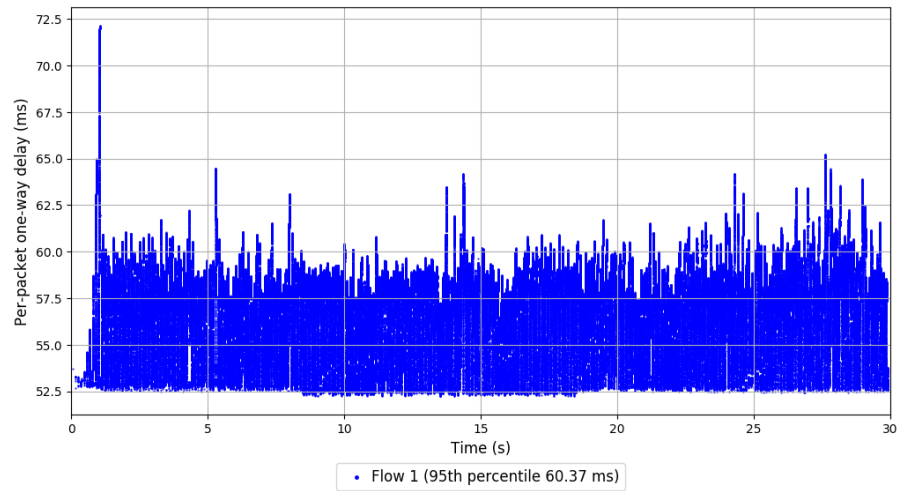
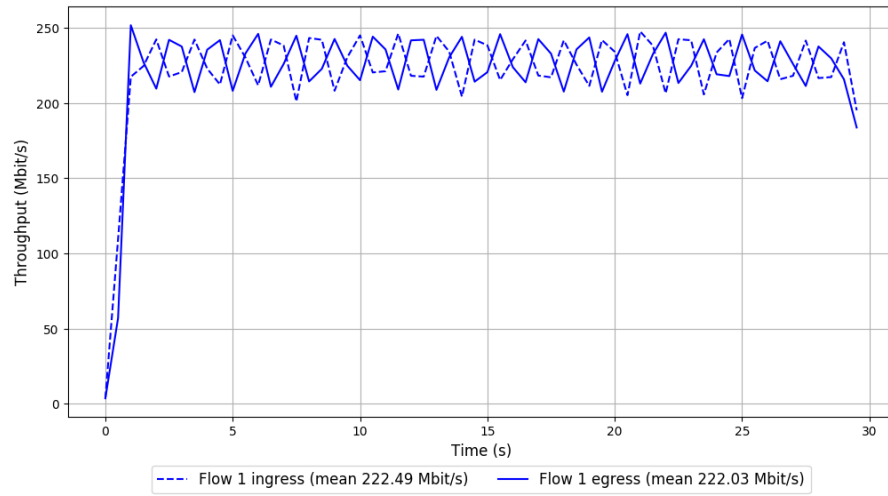
-- Flow 1:

Average throughput: 222.03 Mbit/s

95th percentile per-packet one-way delay: 60.366 ms

Loss rate: 0.36%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-16 06:28:48

End at: 2018-02-16 06:29:18

Below is generated by plot.py at 2018-02-16 11:18:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 159.83 Mbit/s

95th percentile per-packet one-way delay: 60.171 ms

Loss rate: 0.53%

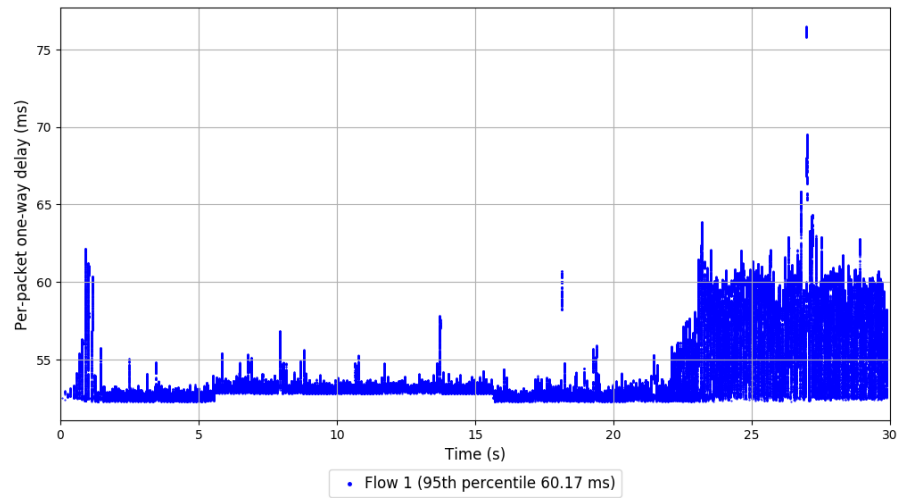
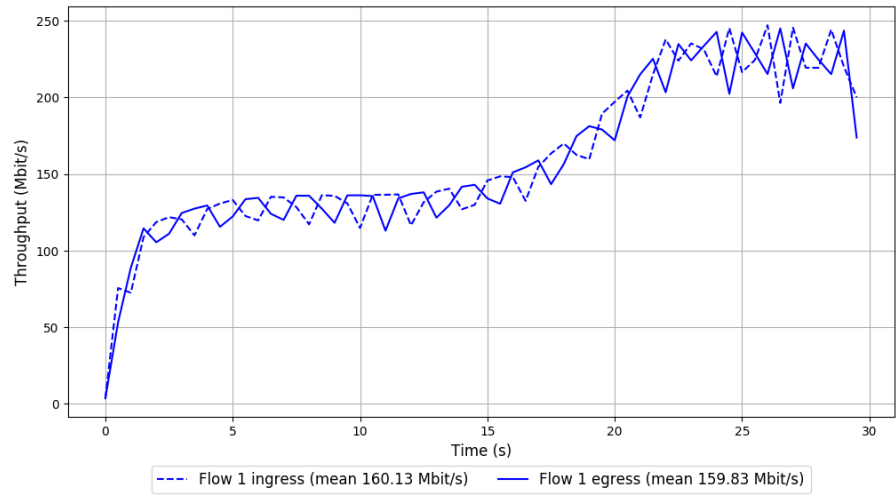
-- Flow 1:

Average throughput: 159.83 Mbit/s

95th percentile per-packet one-way delay: 60.171 ms

Loss rate: 0.53%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-16 06:43:28

End at: 2018-02-16 06:43:58

Below is generated by plot.py at 2018-02-16 11:18:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.47 Mbit/s

95th percentile per-packet one-way delay: 59.010 ms

Loss rate: 0.37%

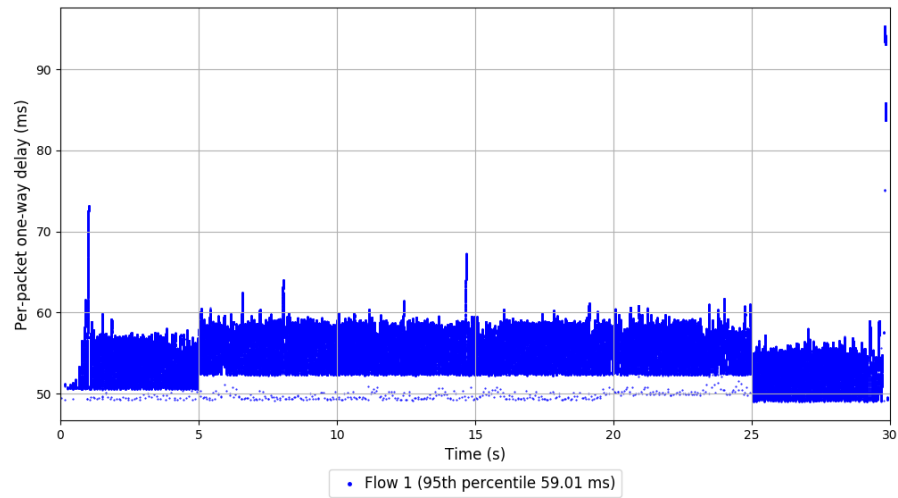
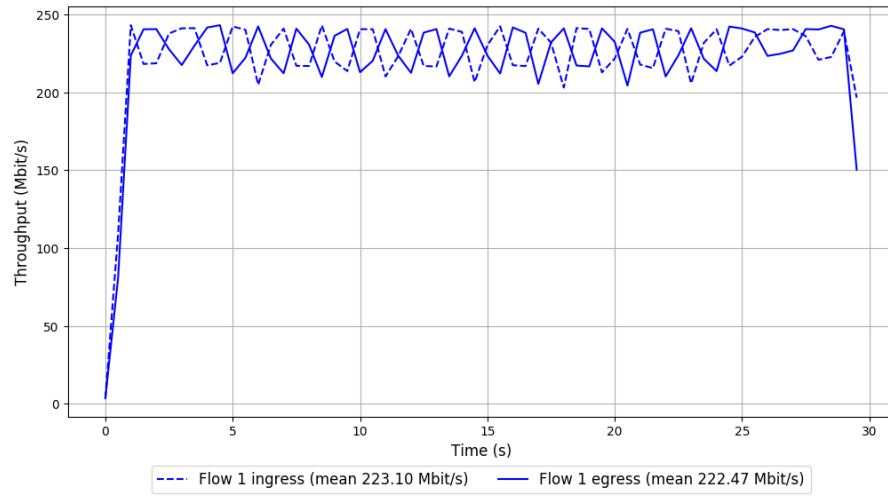
-- Flow 1:

Average throughput: 222.47 Mbit/s

95th percentile per-packet one-way delay: 59.010 ms

Loss rate: 0.37%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-16 06:58:19

End at: 2018-02-16 06:58:49

Below is generated by plot.py at 2018-02-16 11:18:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.81 Mbit/s

95th percentile per-packet one-way delay: 58.016 ms

Loss rate: 0.21%

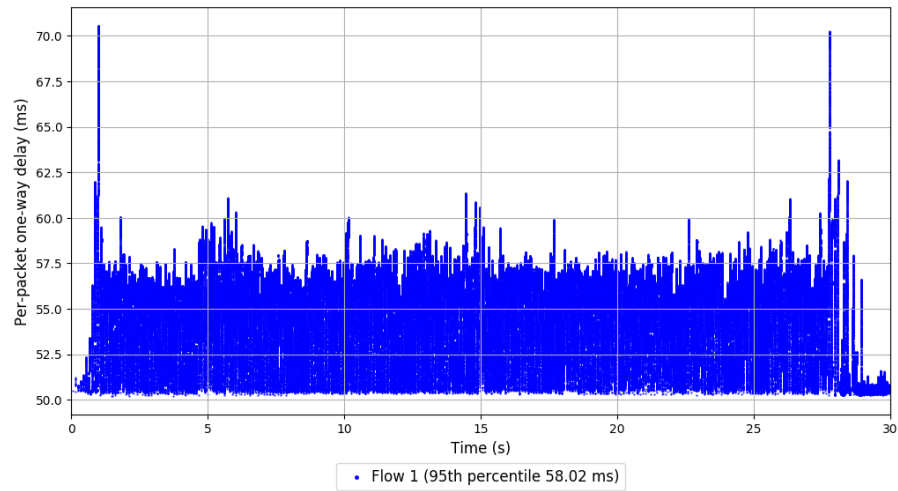
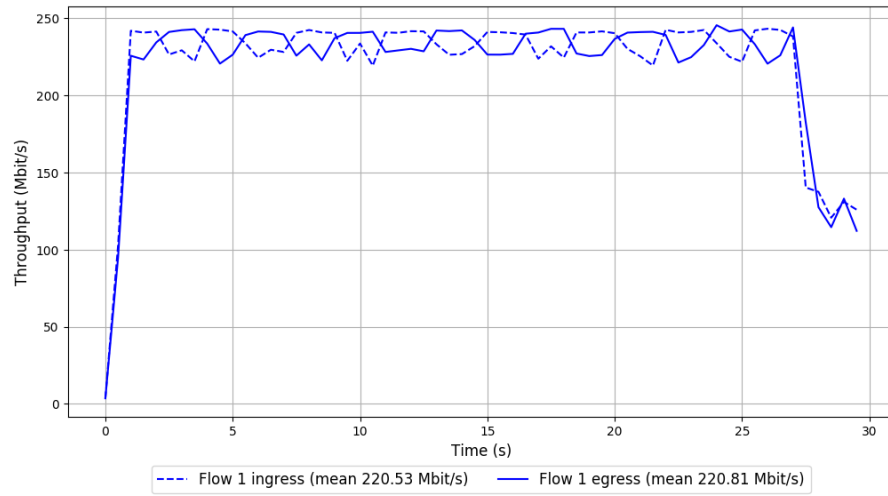
-- Flow 1:

Average throughput: 220.81 Mbit/s

95th percentile per-packet one-way delay: 58.016 ms

Loss rate: 0.21%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-16 07:13:16

End at: 2018-02-16 07:13:46

Below is generated by plot.py at 2018-02-16 11:18:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.75 Mbit/s

95th percentile per-packet one-way delay: 57.266 ms

Loss rate: 0.12%

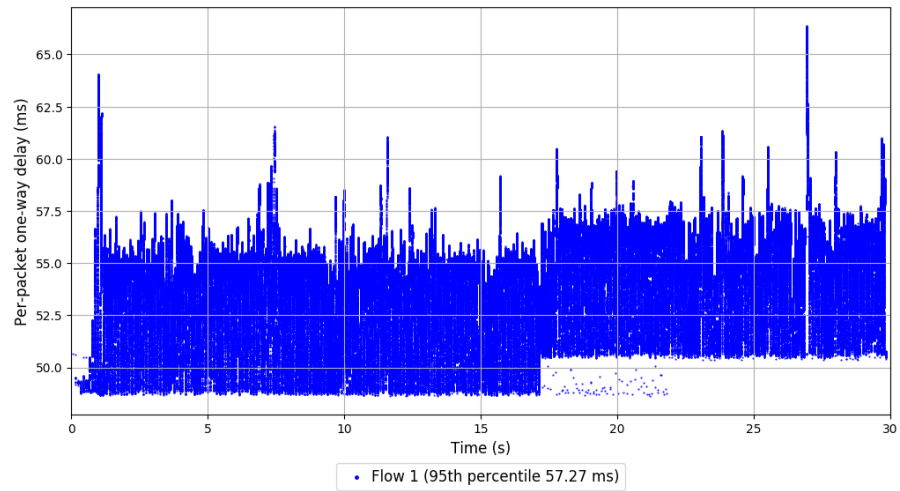
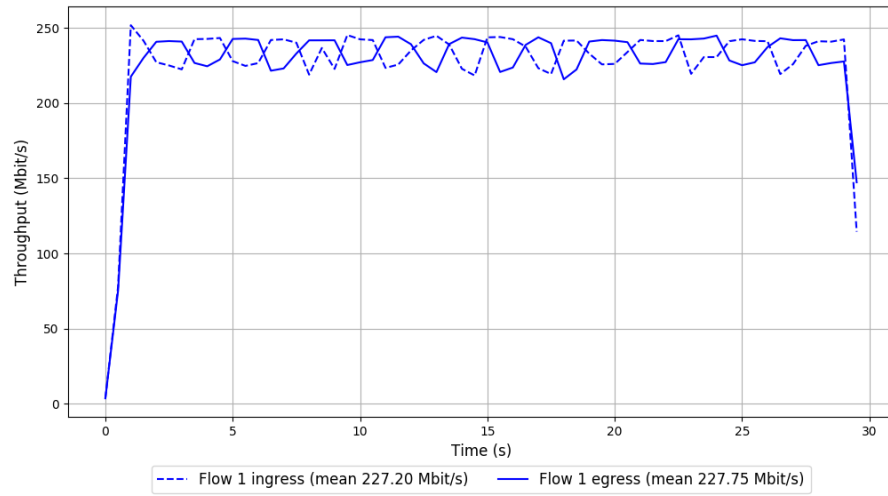
-- Flow 1:

Average throughput: 227.75 Mbit/s

95th percentile per-packet one-way delay: 57.266 ms

Loss rate: 0.12%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-16 07:28:03

End at: 2018-02-16 07:28:33

Below is generated by plot.py at 2018-02-16 11:19:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.95 Mbit/s

95th percentile per-packet one-way delay: 57.542 ms

Loss rate: 0.35%

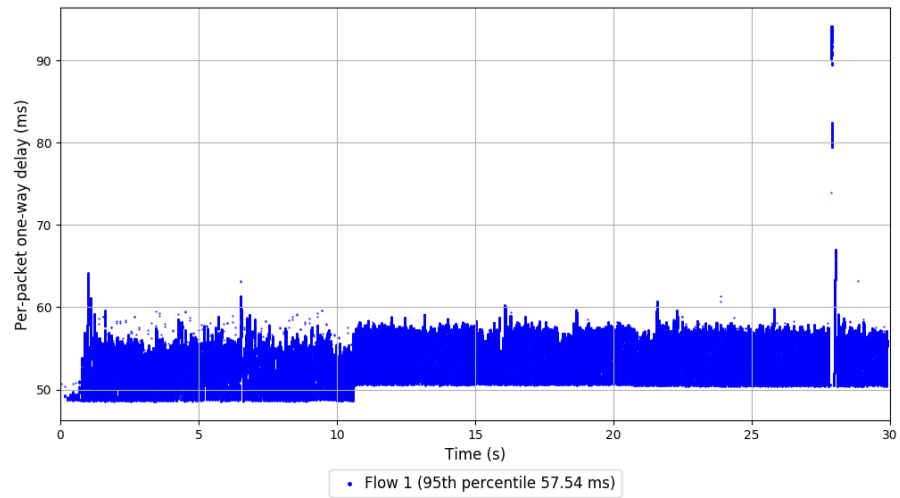
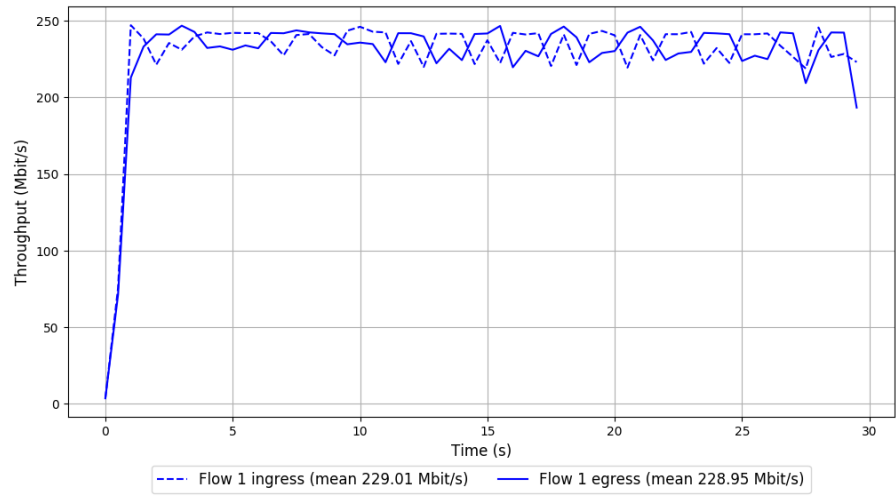
-- Flow 1:

Average throughput: 228.95 Mbit/s

95th percentile per-packet one-way delay: 57.542 ms

Loss rate: 0.35%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-16 07:42:47

End at: 2018-02-16 07:43:17

Below is generated by plot.py at 2018-02-16 11:22:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.68 Mbit/s

95th percentile per-packet one-way delay: 57.359 ms

Loss rate: 0.15%

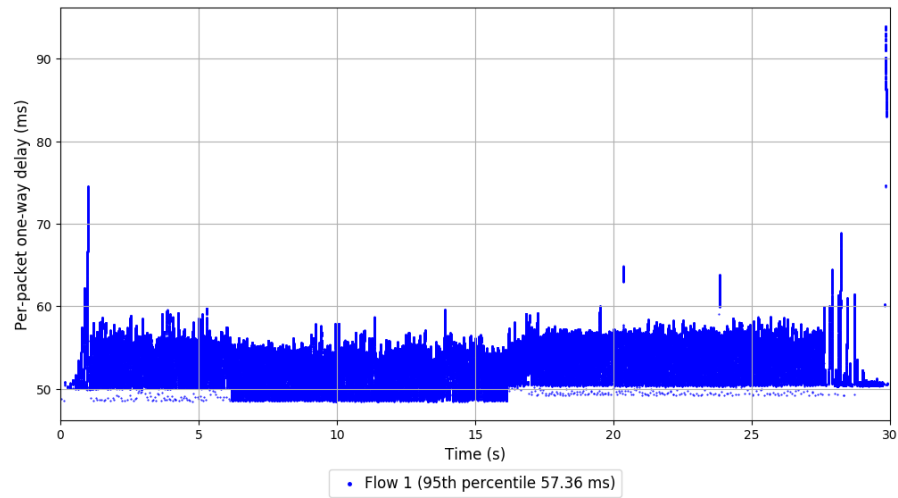
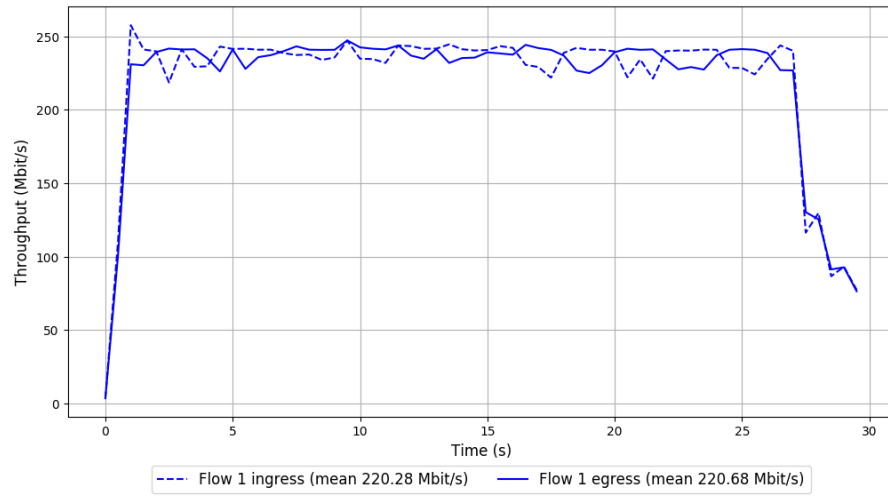
-- Flow 1:

Average throughput: 220.68 Mbit/s

95th percentile per-packet one-way delay: 57.359 ms

Loss rate: 0.15%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-16 07:57:48

End at: 2018-02-16 07:58:18

Below is generated by plot.py at 2018-02-16 11:22:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.53 Mbit/s

95th percentile per-packet one-way delay: 57.149 ms

Loss rate: 0.26%

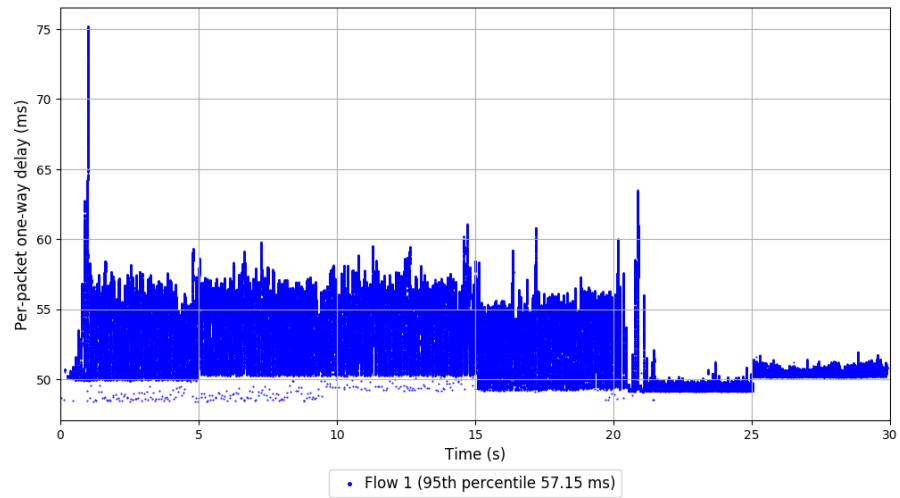
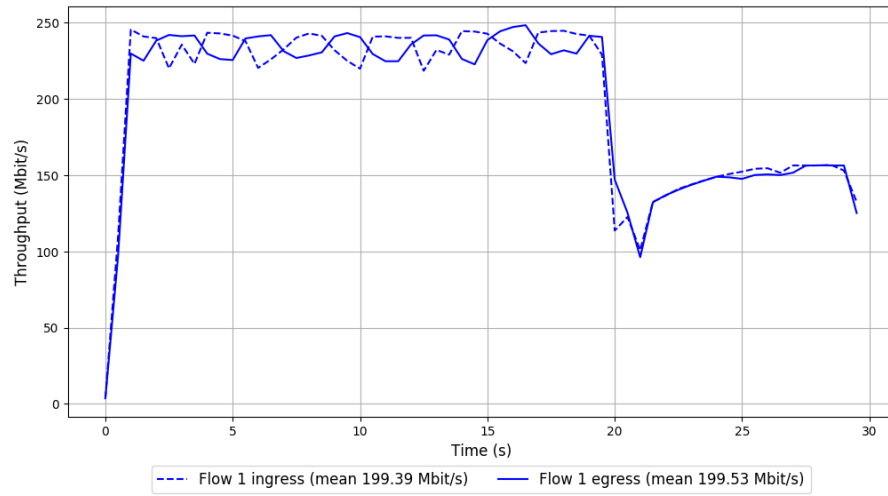
-- Flow 1:

Average throughput: 199.53 Mbit/s

95th percentile per-packet one-way delay: 57.149 ms

Loss rate: 0.26%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-16 08:12:32

End at: 2018-02-16 08:13:02

Below is generated by plot.py at 2018-02-16 11:22:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.72 Mbit/s

95th percentile per-packet one-way delay: 57.590 ms

Loss rate: 0.35%

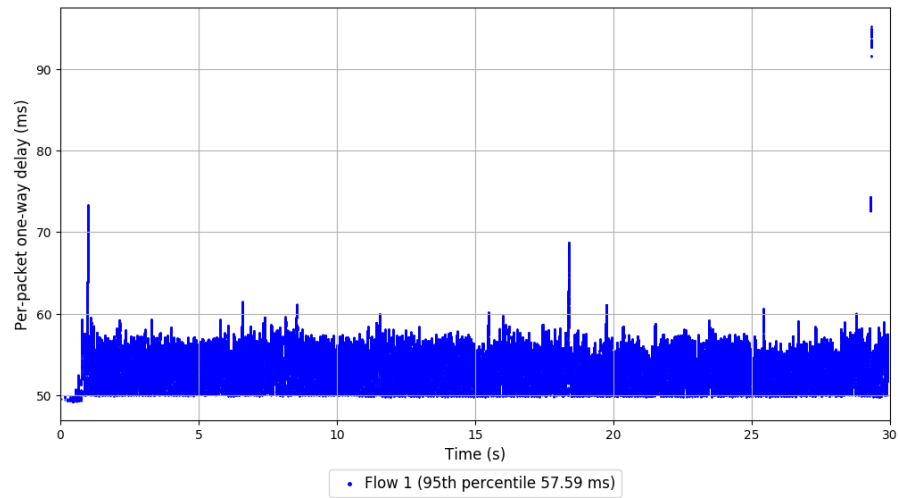
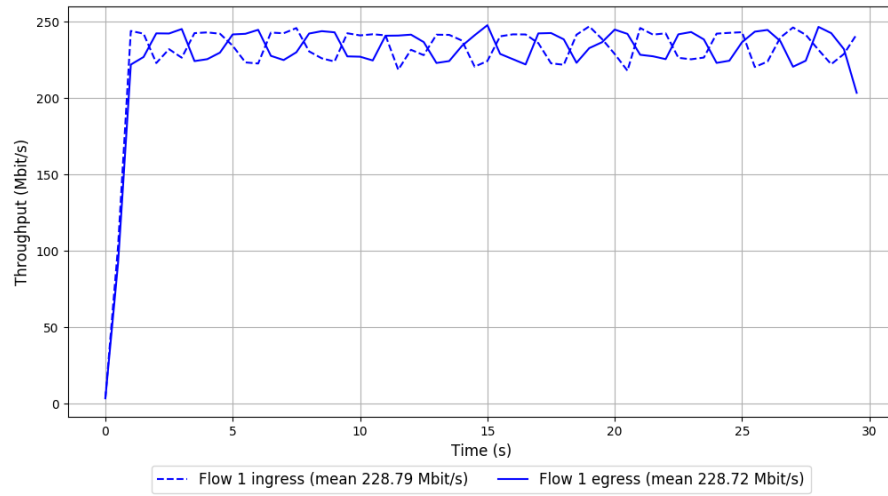
-- Flow 1:

Average throughput: 228.72 Mbit/s

95th percentile per-packet one-way delay: 57.590 ms

Loss rate: 0.35%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-16 08:27:31

End at: 2018-02-16 08:28:01

Below is generated by plot.py at 2018-02-16 11:22:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 229.08 Mbit/s

95th percentile per-packet one-way delay: 57.520 ms

Loss rate: 0.37%

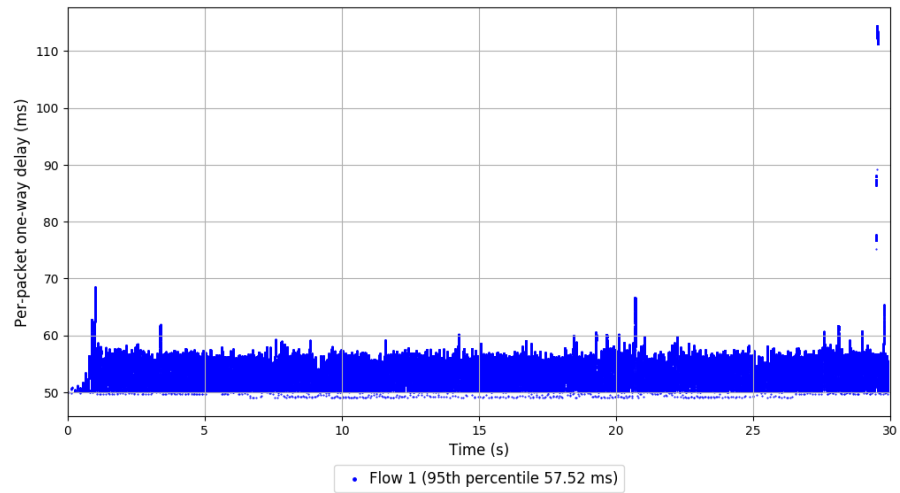
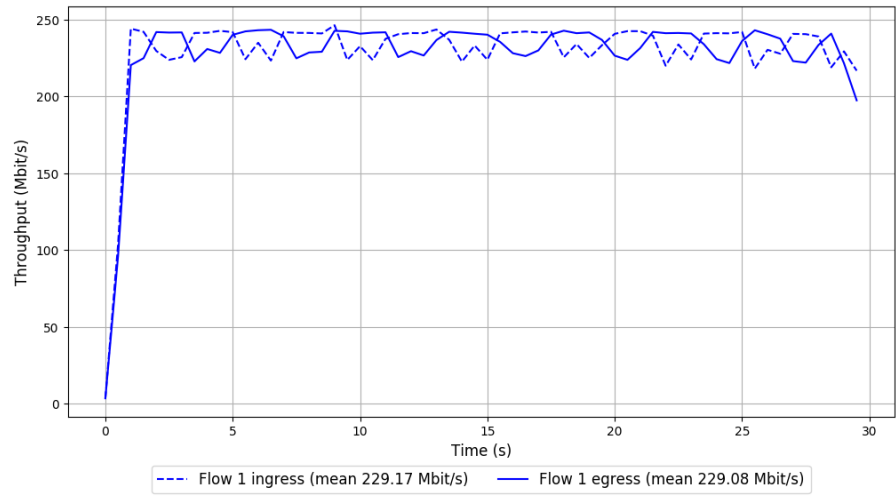
-- Flow 1:

Average throughput: 229.08 Mbit/s

95th percentile per-packet one-way delay: 57.520 ms

Loss rate: 0.37%

Run 10: Report of TCP Cubic — Data Link

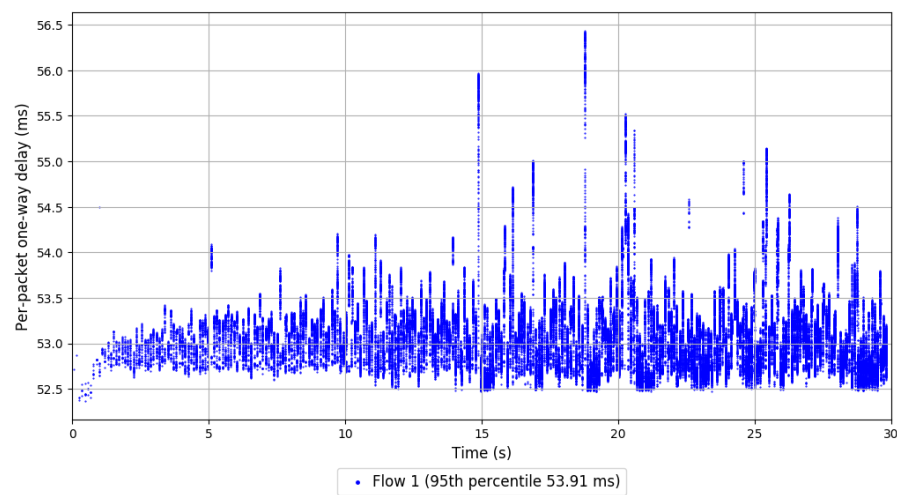
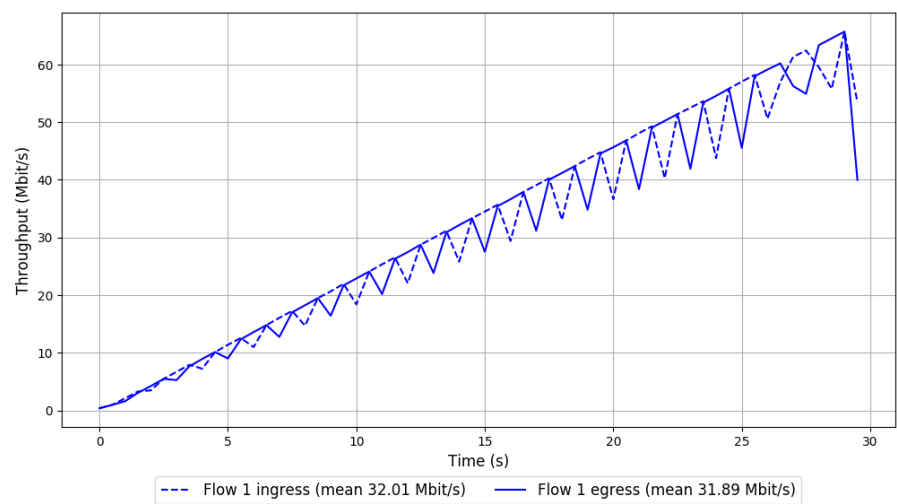


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-16 06:01:22
End at: 2018-02-16 06:01:52

# Below is generated by plot.py at 2018-02-16 11:22:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 31.89 Mbit/s
95th percentile per-packet one-way delay: 53.909 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 31.89 Mbit/s
95th percentile per-packet one-way delay: 53.909 ms
Loss rate: 0.70%
```

Run 1: Report of LEDBAT — Data Link

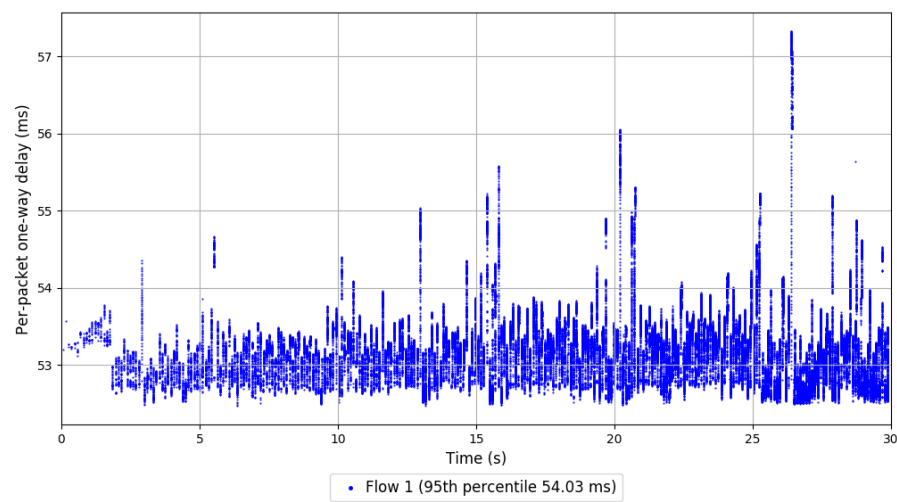
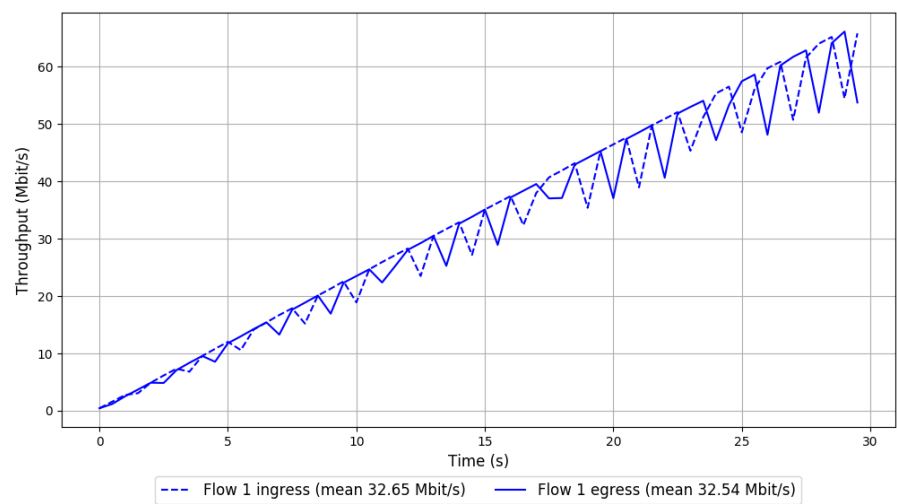


```
Run 2: Statistics of LEDBAT

Start at: 2018-02-16 06:16:21
End at: 2018-02-16 06:16:51

# Below is generated by plot.py at 2018-02-16 11:22:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.54 Mbit/s
95th percentile per-packet one-way delay: 54.035 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 32.54 Mbit/s
95th percentile per-packet one-way delay: 54.035 ms
Loss rate: 0.69%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-16 06:31:21

End at: 2018-02-16 06:31:51

Below is generated by plot.py at 2018-02-16 11:22:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.80 Mbit/s

95th percentile per-packet one-way delay: 53.499 ms

Loss rate: 0.69%

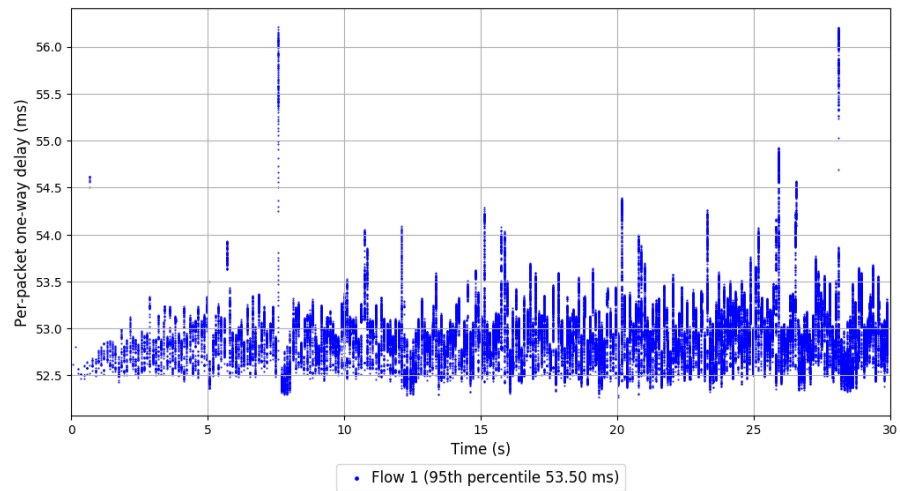
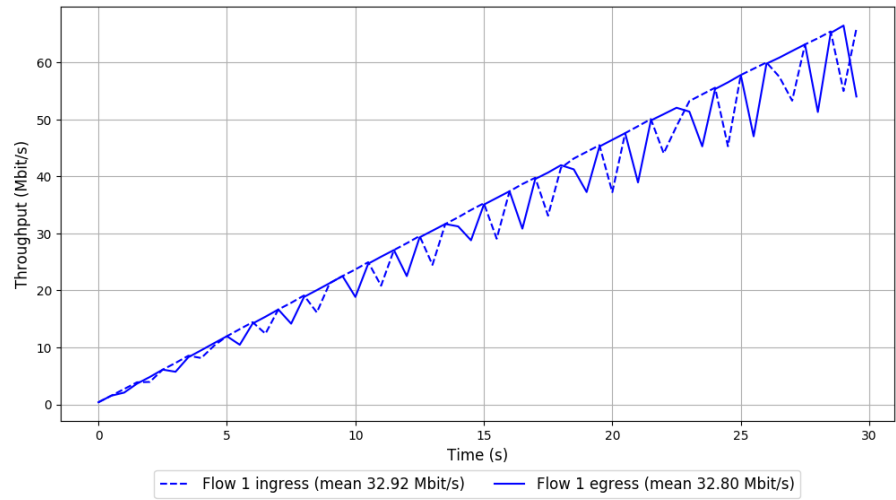
-- Flow 1:

Average throughput: 32.80 Mbit/s

95th percentile per-packet one-way delay: 53.499 ms

Loss rate: 0.69%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-16 06:46:10

End at: 2018-02-16 06:46:40

Below is generated by plot.py at 2018-02-16 11:22:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.50 Mbit/s

95th percentile per-packet one-way delay: 51.567 ms

Loss rate: 0.75%

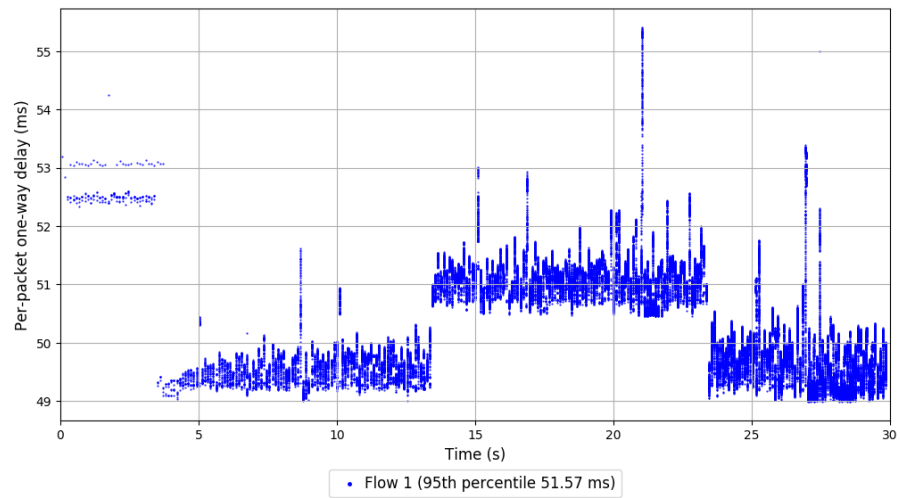
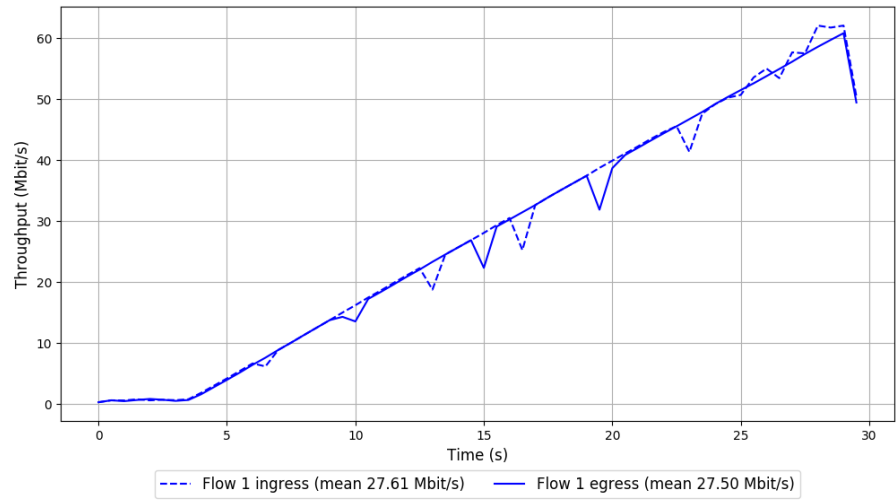
-- Flow 1:

Average throughput: 27.50 Mbit/s

95th percentile per-packet one-way delay: 51.567 ms

Loss rate: 0.75%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-16 07:00:46

End at: 2018-02-16 07:01:16

Below is generated by plot.py at 2018-02-16 11:22:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.57 Mbit/s

95th percentile per-packet one-way delay: 53.611 ms

Loss rate: 0.69%

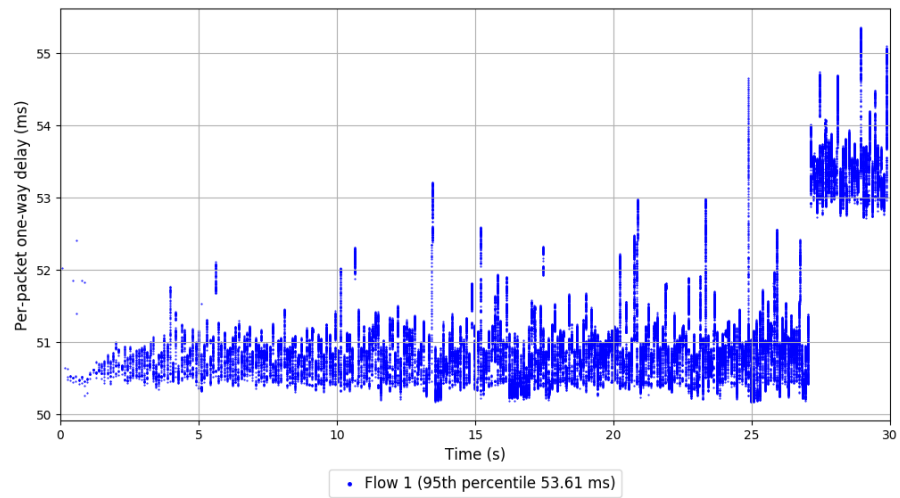
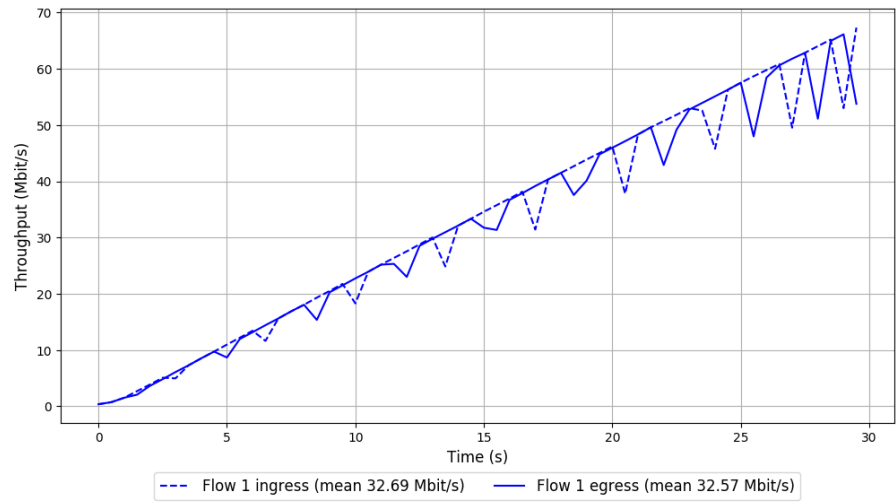
-- Flow 1:

Average throughput: 32.57 Mbit/s

95th percentile per-packet one-way delay: 53.611 ms

Loss rate: 0.69%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-16 07:15:51

End at: 2018-02-16 07:16:21

Below is generated by plot.py at 2018-02-16 11:22:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.79 Mbit/s

95th percentile per-packet one-way delay: 53.747 ms

Loss rate: 0.37%

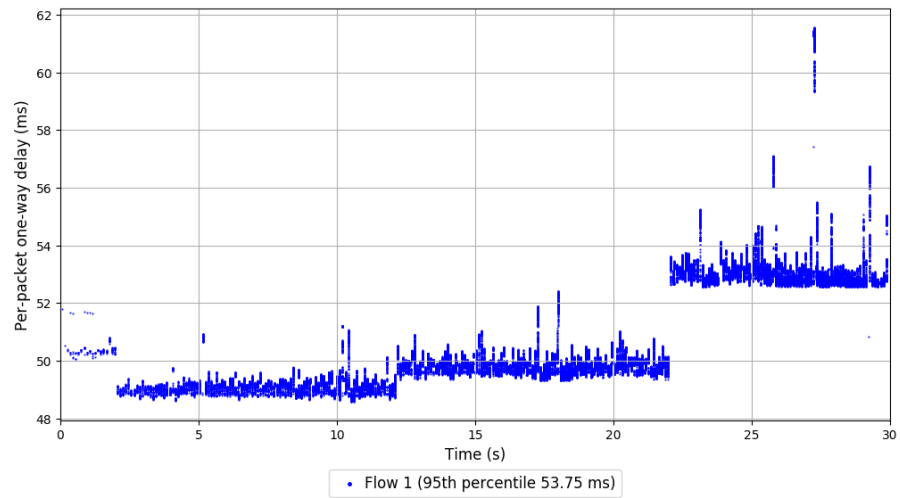
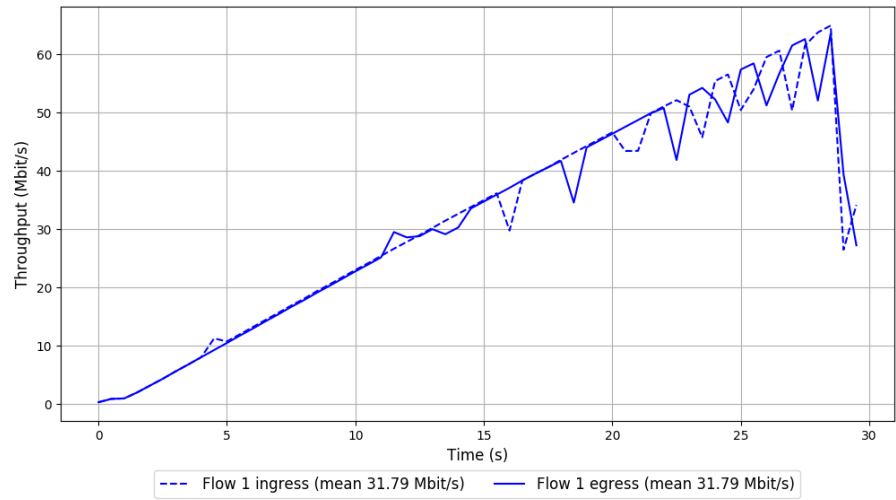
-- Flow 1:

Average throughput: 31.79 Mbit/s

95th percentile per-packet one-way delay: 53.747 ms

Loss rate: 0.37%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-16 07:30:32

End at: 2018-02-16 07:31:02

Below is generated by plot.py at 2018-02-16 11:22:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.58 Mbit/s

95th percentile per-packet one-way delay: 51.423 ms

Loss rate: 0.66%

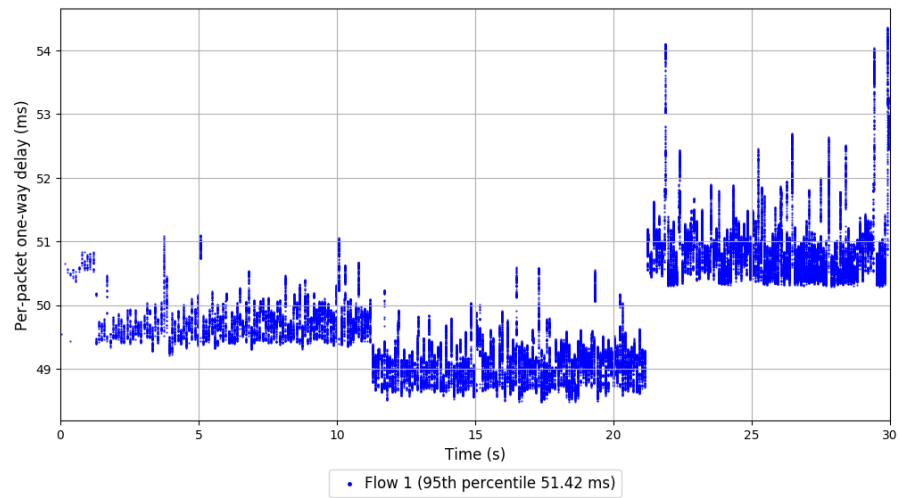
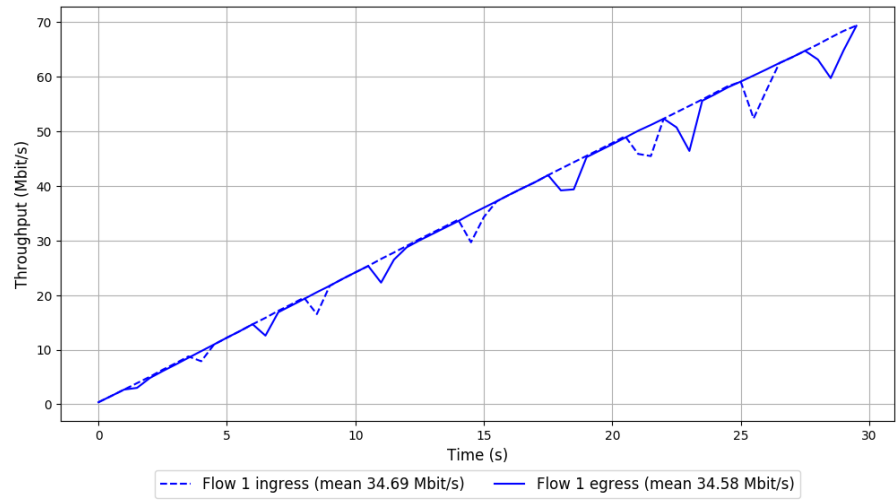
-- Flow 1:

Average throughput: 34.58 Mbit/s

95th percentile per-packet one-way delay: 51.423 ms

Loss rate: 0.66%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-16 07:45:29

End at: 2018-02-16 07:45:59

Below is generated by plot.py at 2018-02-16 11:22:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.82 Mbit/s

95th percentile per-packet one-way delay: 51.531 ms

Loss rate: 0.68%

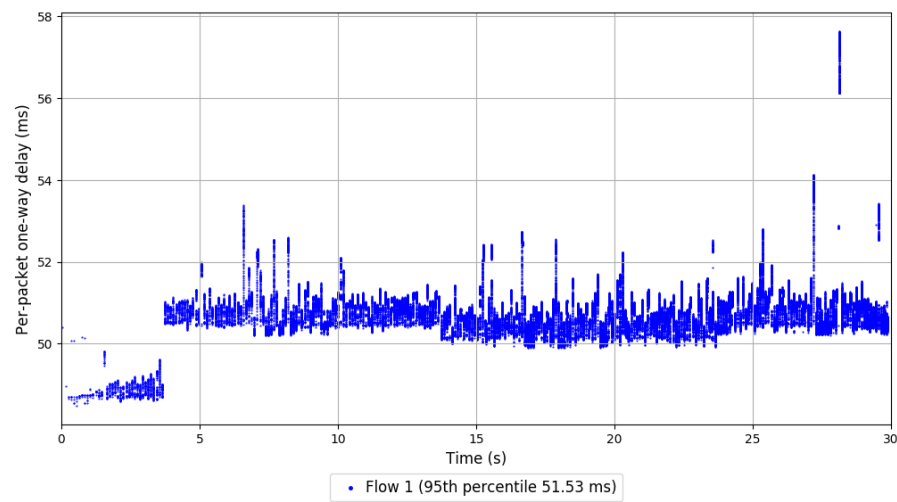
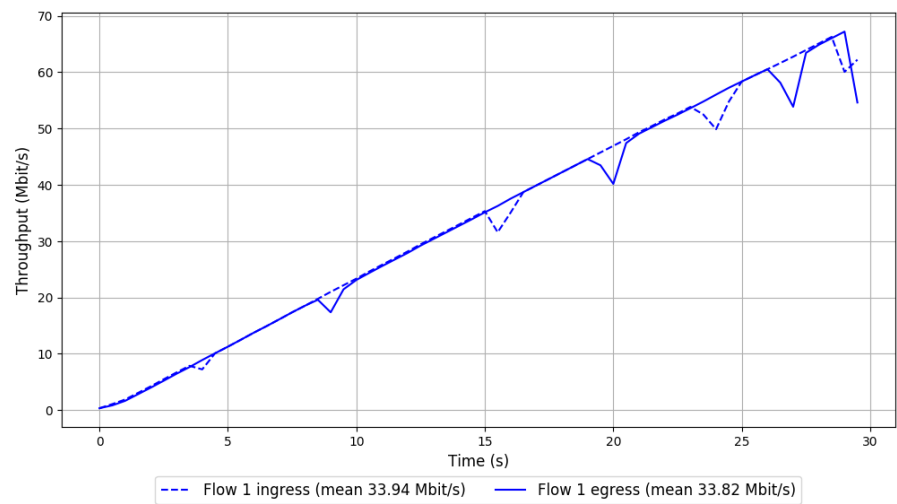
-- Flow 1:

Average throughput: 33.82 Mbit/s

95th percentile per-packet one-way delay: 51.531 ms

Loss rate: 0.68%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-16 08:00:15

End at: 2018-02-16 08:00:45

Below is generated by plot.py at 2018-02-16 11:22:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.27 Mbit/s

95th percentile per-packet one-way delay: 51.263 ms

Loss rate: 0.59%

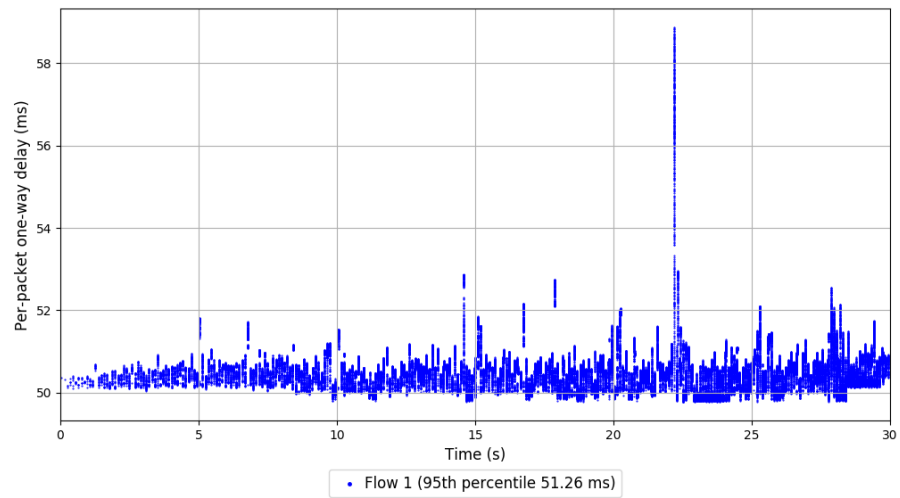
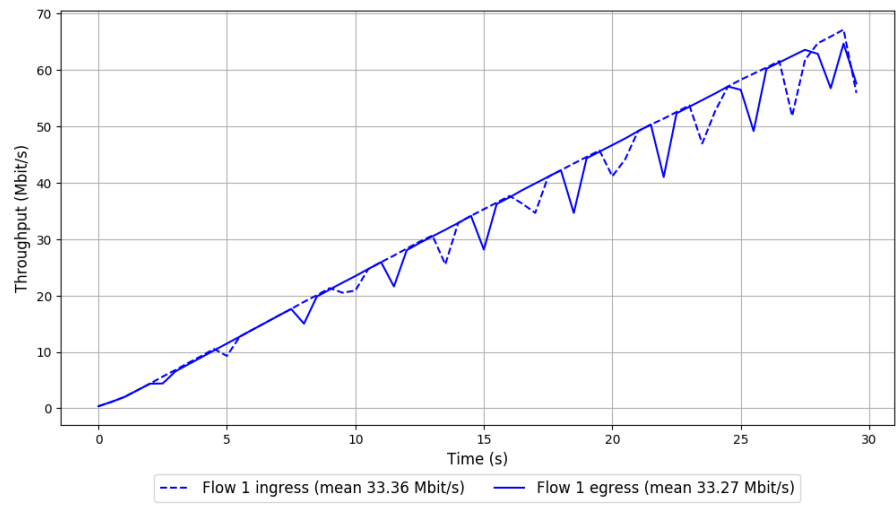
-- Flow 1:

Average throughput: 33.27 Mbit/s

95th percentile per-packet one-way delay: 51.263 ms

Loss rate: 0.59%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-16 08:15:09

End at: 2018-02-16 08:15:39

Below is generated by plot.py at 2018-02-16 11:22:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.04 Mbit/s

95th percentile per-packet one-way delay: 51.165 ms

Loss rate: 0.72%

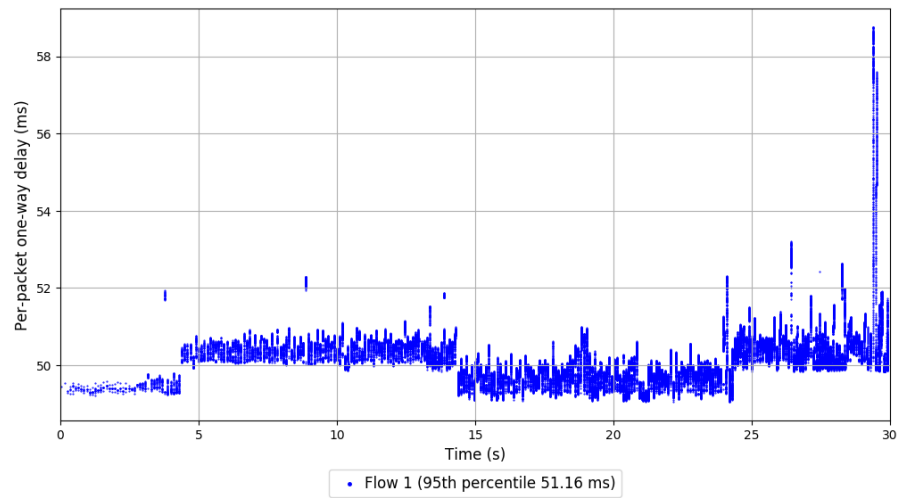
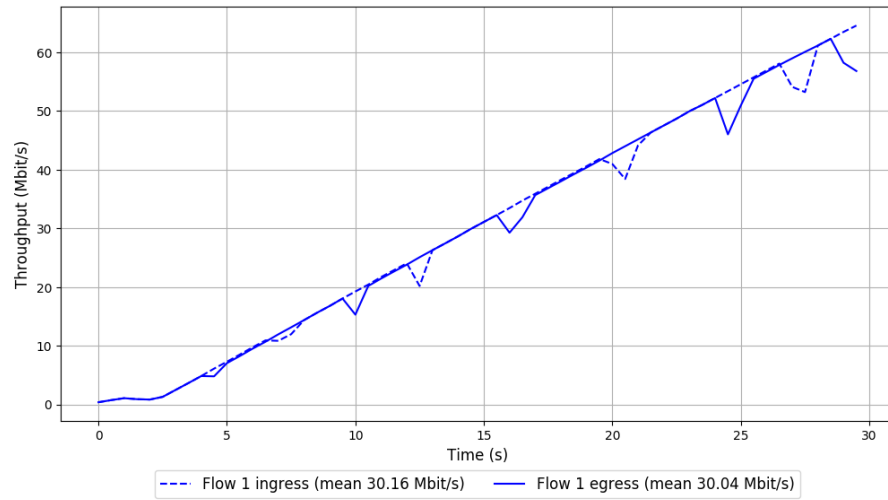
-- Flow 1:

Average throughput: 30.04 Mbit/s

95th percentile per-packet one-way delay: 51.165 ms

Loss rate: 0.72%

Run 10: Report of LEDBAT — Data Link

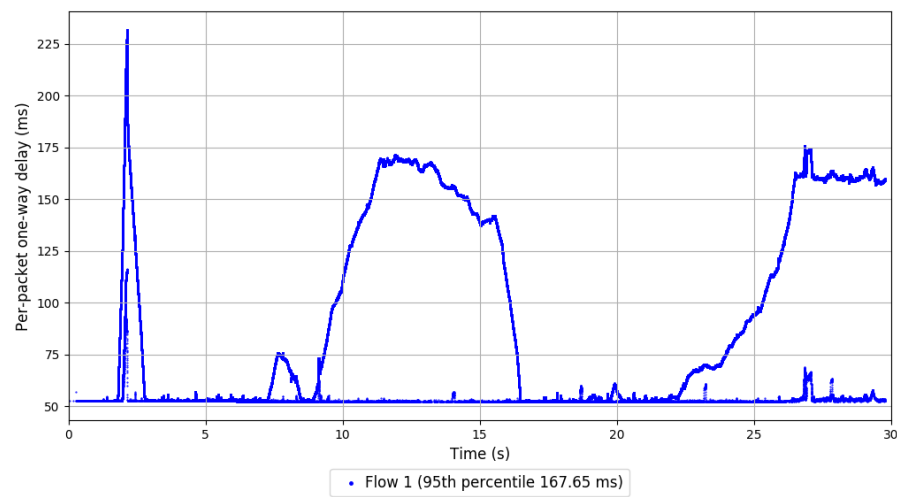
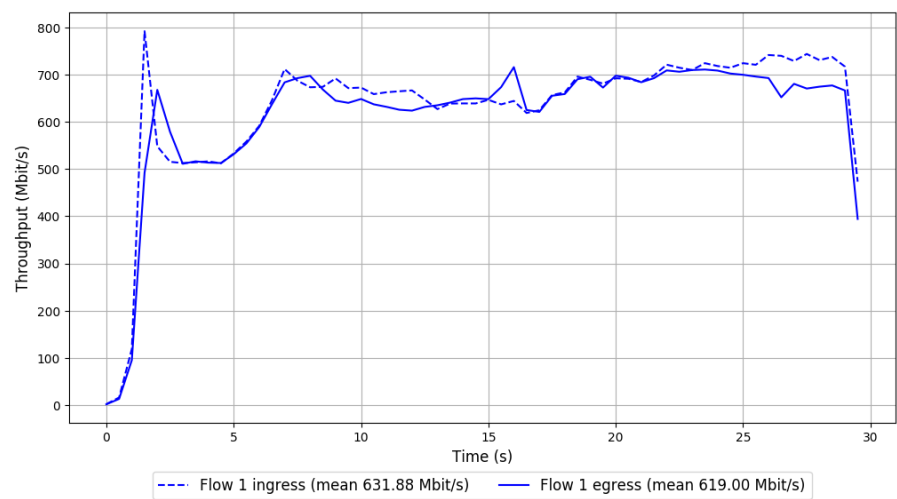


```
Run 1: Statistics of PCC

Start at: 2018-02-16 06:02:01
End at: 2018-02-16 06:02:32

# Below is generated by plot.py at 2018-02-16 11:31:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 619.00 Mbit/s
95th percentile per-packet one-way delay: 167.646 ms
Loss rate: 2.38%
-- Flow 1:
Average throughput: 619.00 Mbit/s
95th percentile per-packet one-way delay: 167.646 ms
Loss rate: 2.38%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-16 06:17:00

End at: 2018-02-16 06:17:30

Below is generated by plot.py at 2018-02-16 11:31:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 586.07 Mbit/s

95th percentile per-packet one-way delay: 166.887 ms

Loss rate: 0.59%

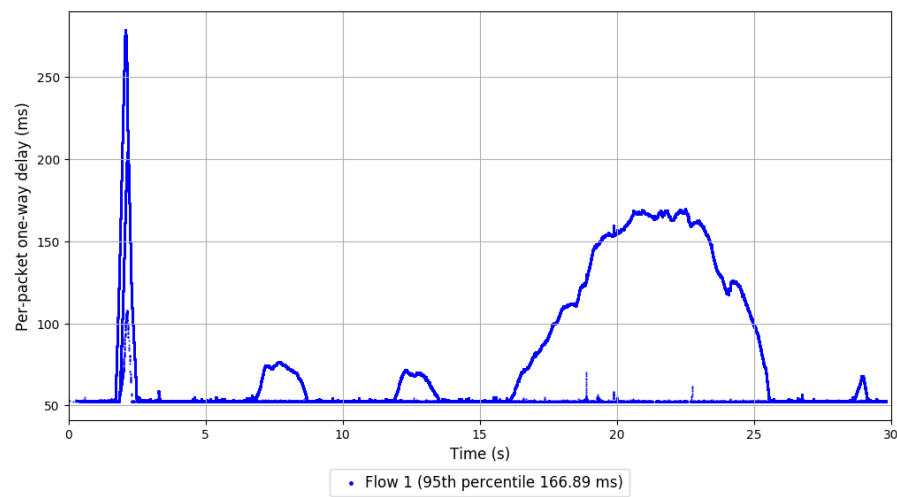
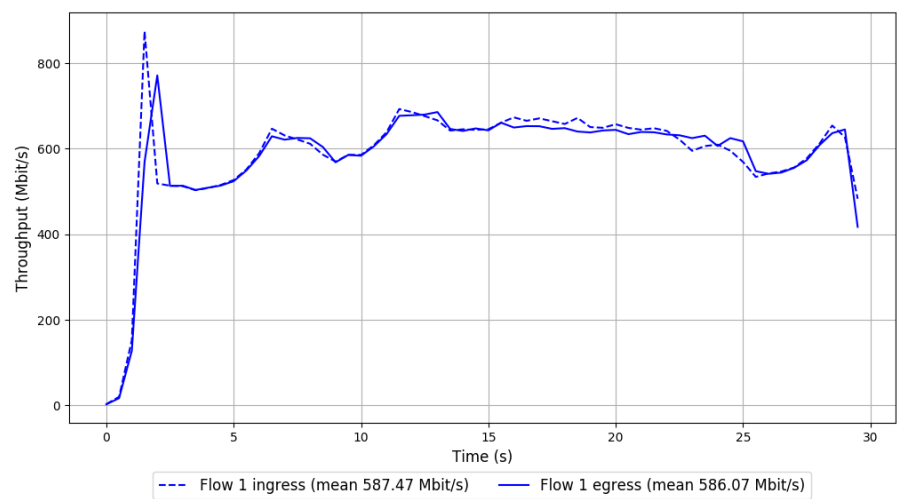
-- Flow 1:

Average throughput: 586.07 Mbit/s

95th percentile per-packet one-way delay: 166.887 ms

Loss rate: 0.59%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-16 06:32:00

End at: 2018-02-16 06:32:30

Below is generated by plot.py at 2018-02-16 11:32:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 602.75 Mbit/s

95th percentile per-packet one-way delay: 168.934 ms

Loss rate: 4.21%

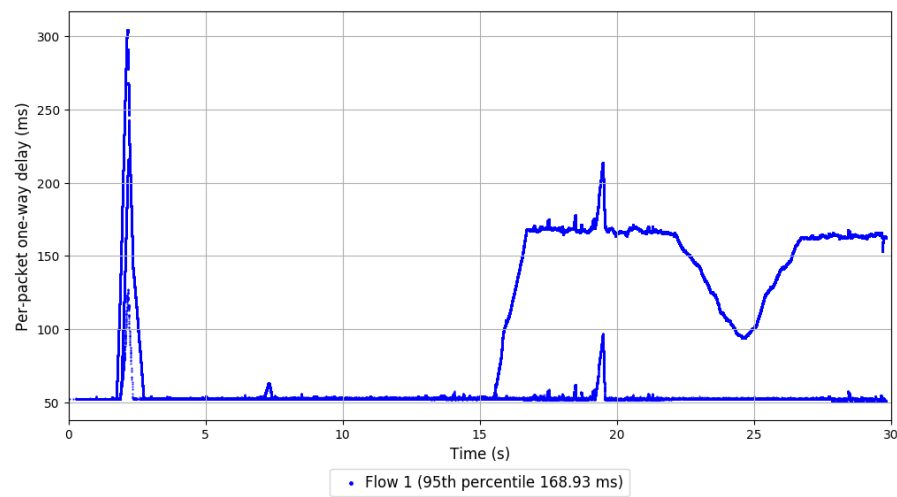
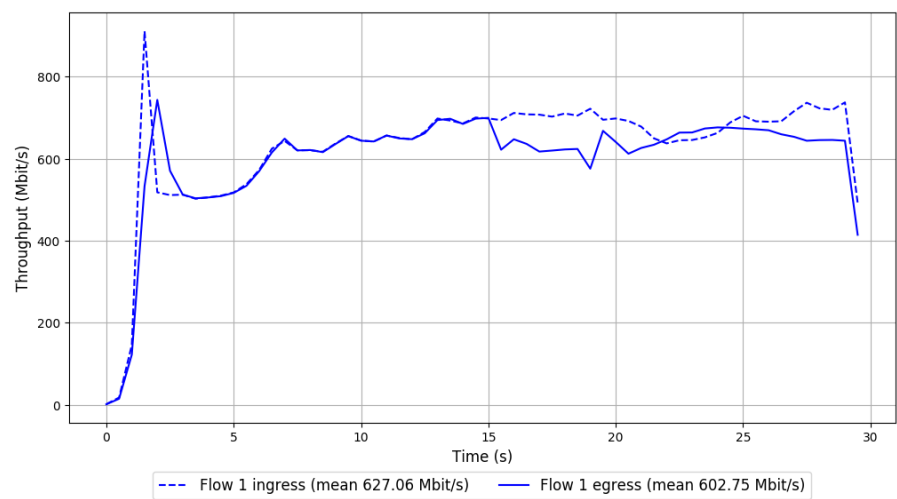
-- Flow 1:

Average throughput: 602.75 Mbit/s

95th percentile per-packet one-way delay: 168.934 ms

Loss rate: 4.21%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-16 06:46:48

End at: 2018-02-16 06:47:18

Below is generated by plot.py at 2018-02-16 11:32:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 616.11 Mbit/s

95th percentile per-packet one-way delay: 68.945 ms

Loss rate: 0.38%

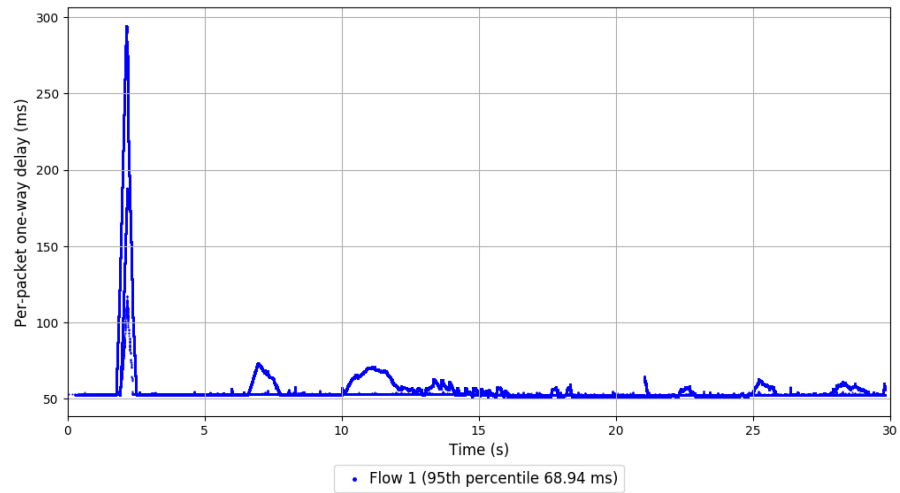
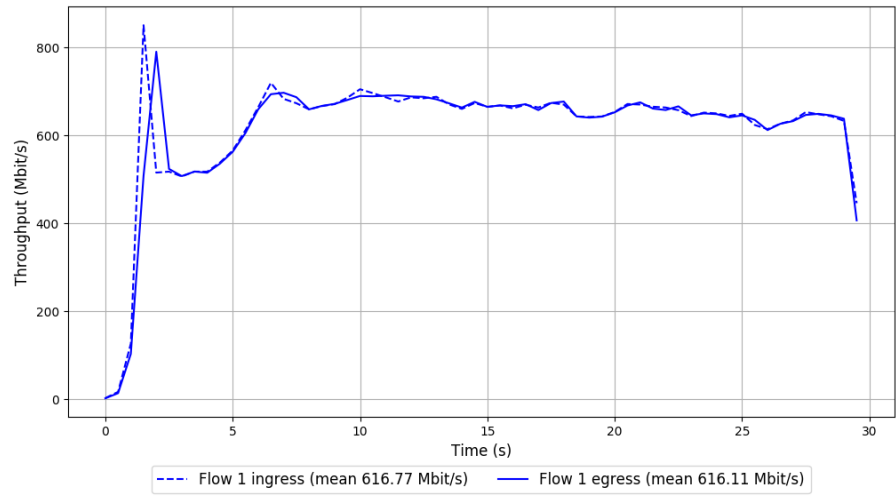
-- Flow 1:

Average throughput: 616.11 Mbit/s

95th percentile per-packet one-way delay: 68.945 ms

Loss rate: 0.38%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-16 07:01:25

End at: 2018-02-16 07:01:55

Below is generated by plot.py at 2018-02-16 11:32:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 595.29 Mbit/s

95th percentile per-packet one-way delay: 169.245 ms

Loss rate: 4.23%

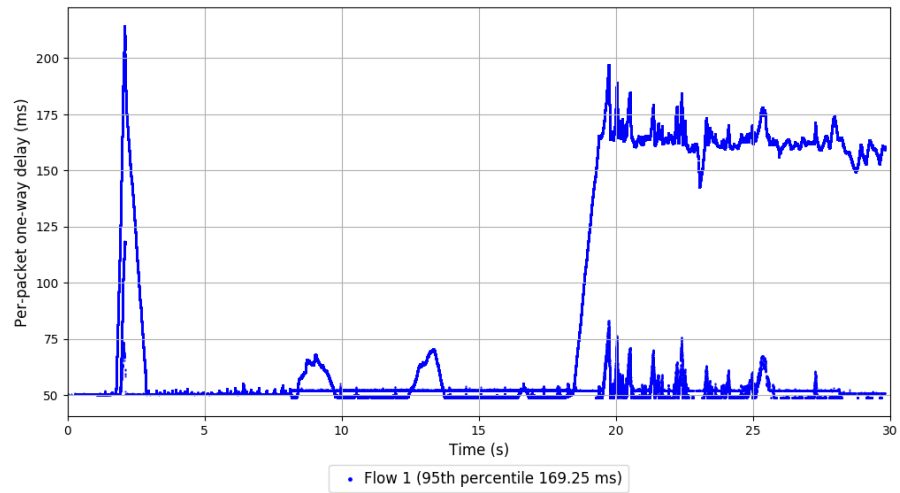
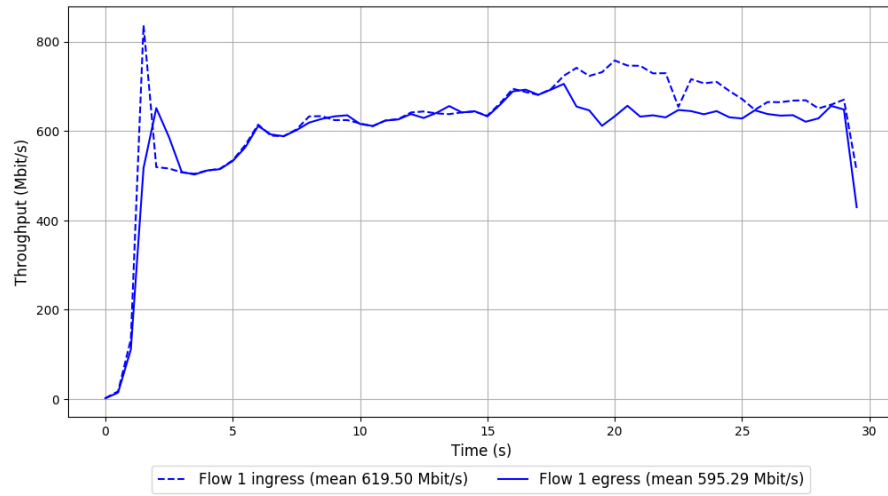
-- Flow 1:

Average throughput: 595.29 Mbit/s

95th percentile per-packet one-way delay: 169.245 ms

Loss rate: 4.23%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-16 07:16:30

End at: 2018-02-16 07:17:00

Below is generated by plot.py at 2018-02-16 11:32:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 595.11 Mbit/s

95th percentile per-packet one-way delay: 160.900 ms

Loss rate: 0.83%

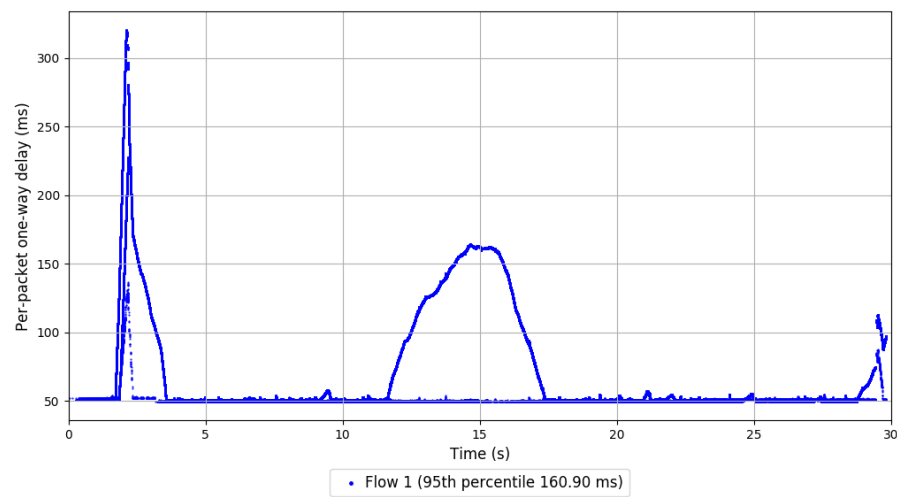
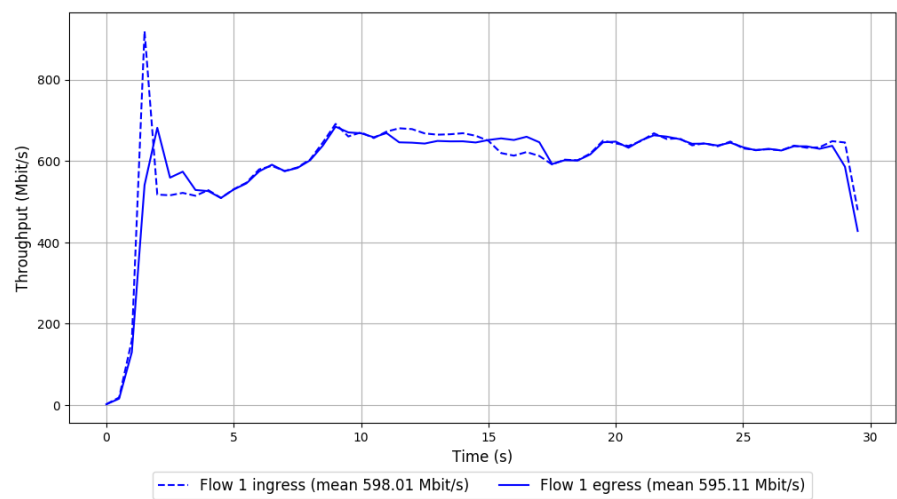
-- Flow 1:

Average throughput: 595.11 Mbit/s

95th percentile per-packet one-way delay: 160.900 ms

Loss rate: 0.83%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-16 07:31:11

End at: 2018-02-16 07:31:41

Below is generated by plot.py at 2018-02-16 11:33:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 583.54 Mbit/s

95th percentile per-packet one-way delay: 74.927 ms

Loss rate: 0.48%

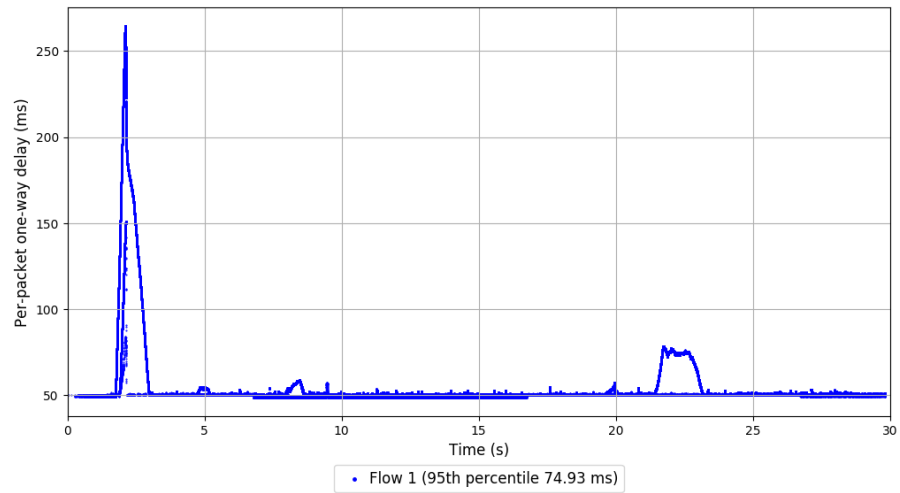
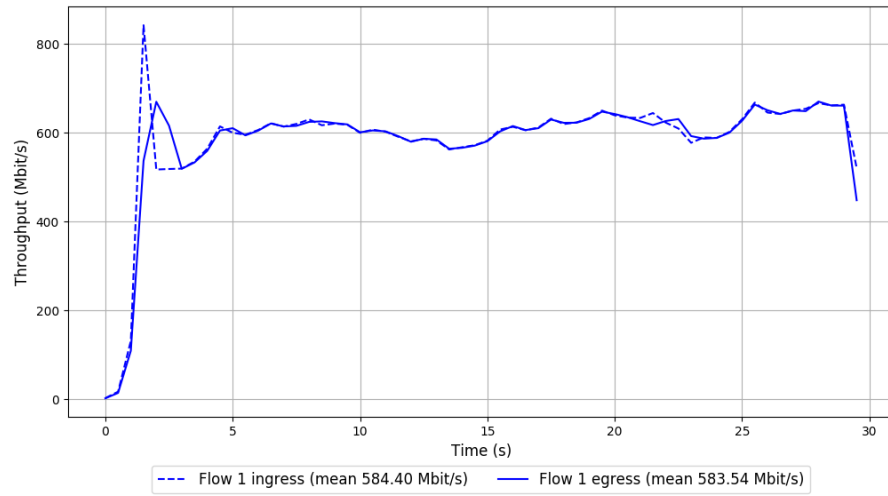
-- Flow 1:

Average throughput: 583.54 Mbit/s

95th percentile per-packet one-way delay: 74.927 ms

Loss rate: 0.48%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-16 07:46:08

End at: 2018-02-16 07:46:38

Below is generated by plot.py at 2018-02-16 11:33:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 585.93 Mbit/s

95th percentile per-packet one-way delay: 84.066 ms

Loss rate: 0.51%

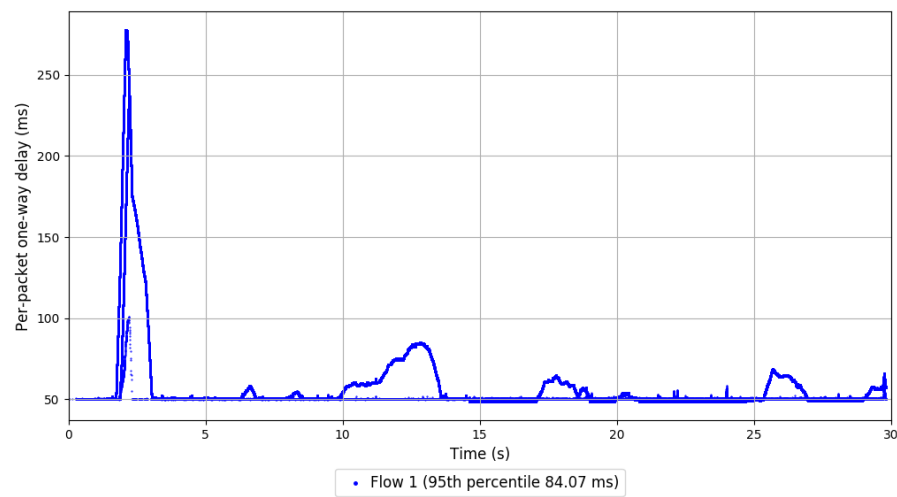
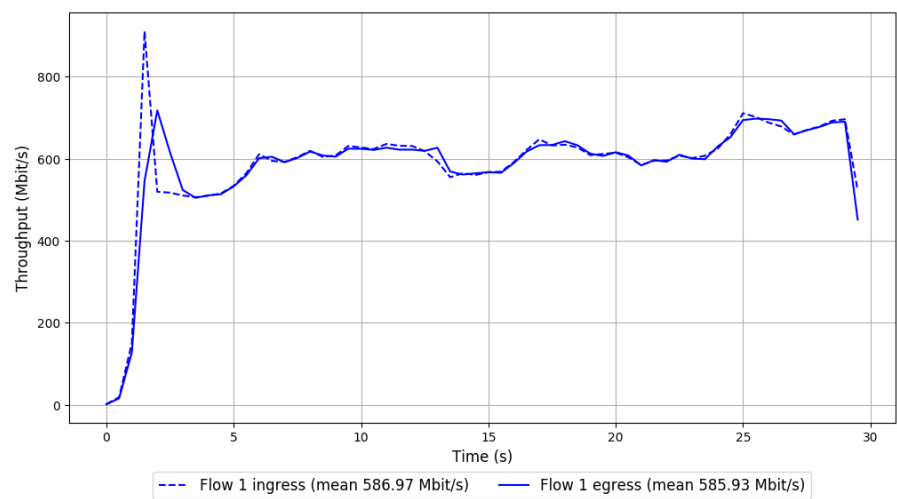
-- Flow 1:

Average throughput: 585.93 Mbit/s

95th percentile per-packet one-way delay: 84.066 ms

Loss rate: 0.51%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-16 08:00:54

End at: 2018-02-16 08:01:24

Below is generated by plot.py at 2018-02-16 11:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 578.46 Mbit/s

95th percentile per-packet one-way delay: 169.572 ms

Loss rate: 2.31%

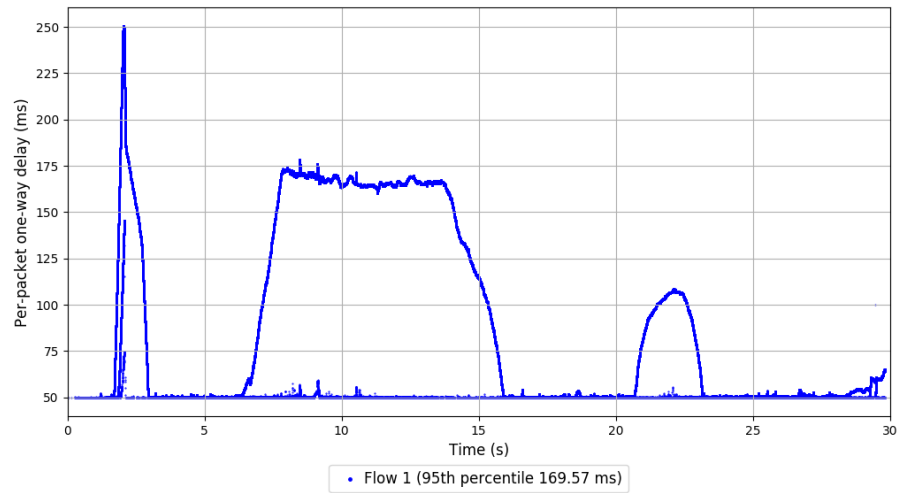
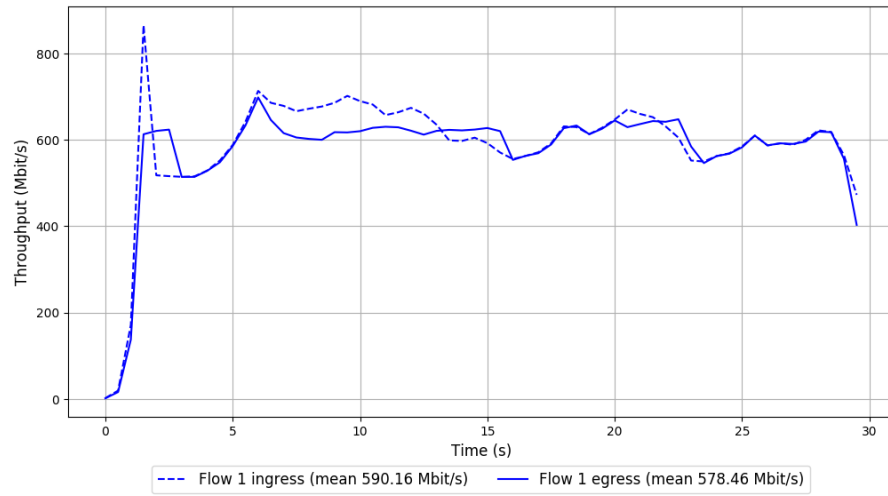
-- Flow 1:

Average throughput: 578.46 Mbit/s

95th percentile per-packet one-way delay: 169.572 ms

Loss rate: 2.31%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-16 08:15:48

End at: 2018-02-16 08:16:18

Below is generated by plot.py at 2018-02-16 11:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 563.21 Mbit/s

95th percentile per-packet one-way delay: 176.339 ms

Loss rate: 2.27%

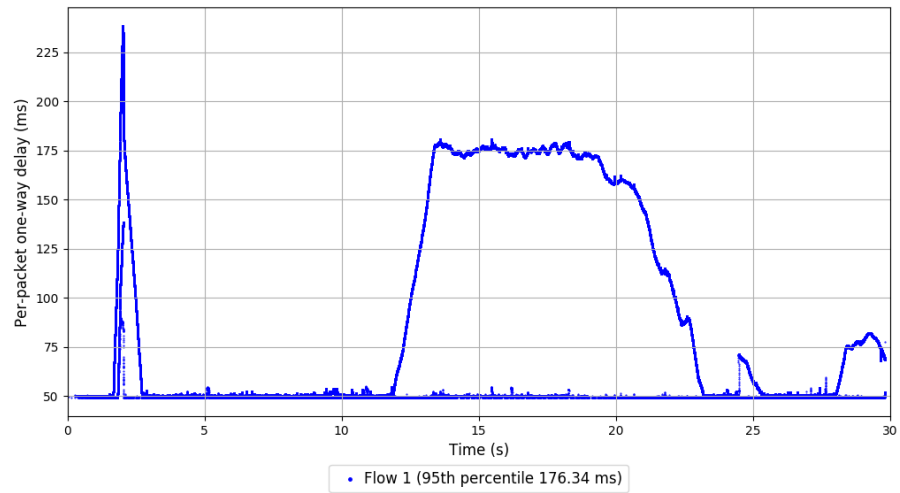
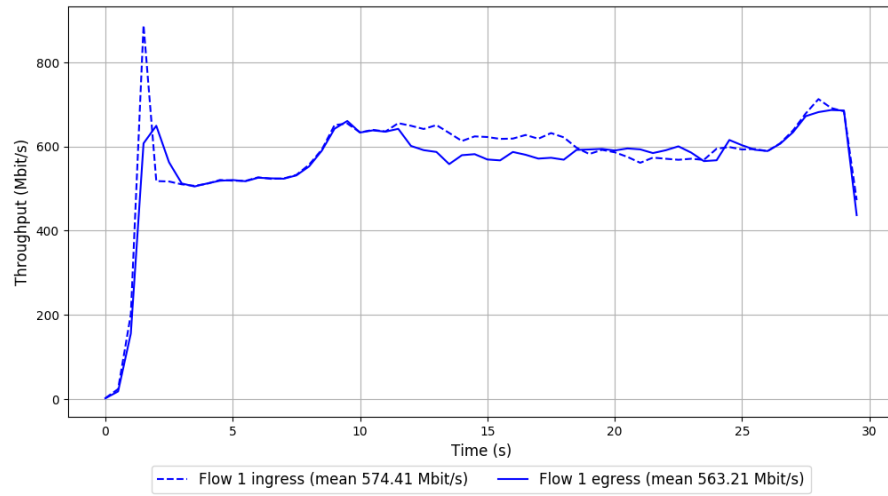
-- Flow 1:

Average throughput: 563.21 Mbit/s

95th percentile per-packet one-way delay: 176.339 ms

Loss rate: 2.27%

Run 10: Report of PCC — Data Link

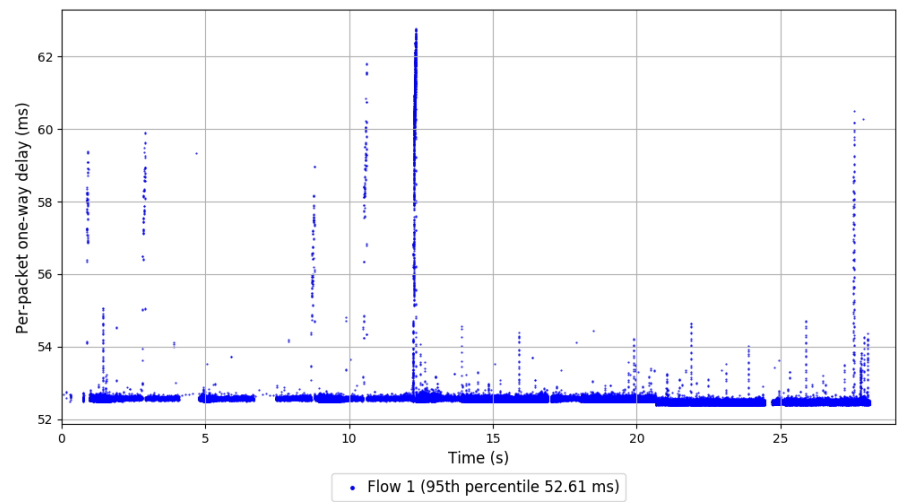
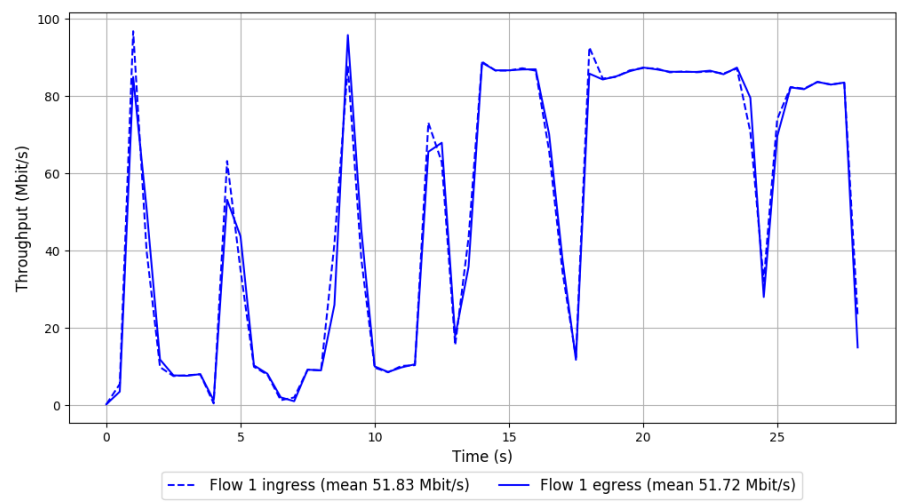


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-02-16 06:13:05
End at: 2018-02-16 06:13:35

# Below is generated by plot.py at 2018-02-16 11:42:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 51.72 Mbit/s
95th percentile per-packet one-way delay: 52.611 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 51.72 Mbit/s
95th percentile per-packet one-way delay: 52.611 ms
Loss rate: 0.57%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-16 06:28:08

End at: 2018-02-16 06:28:38

Below is generated by plot.py at 2018-02-16 11:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.80 Mbit/s

95th percentile per-packet one-way delay: 52.418 ms

Loss rate: 0.53%

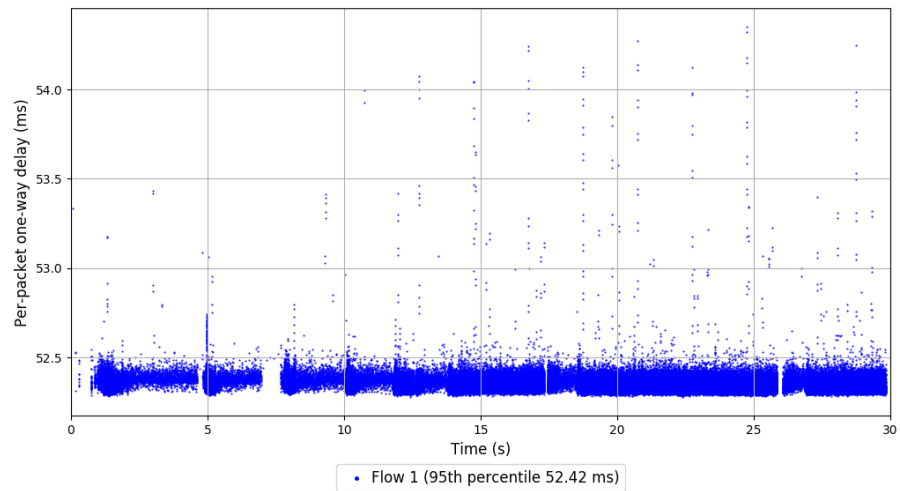
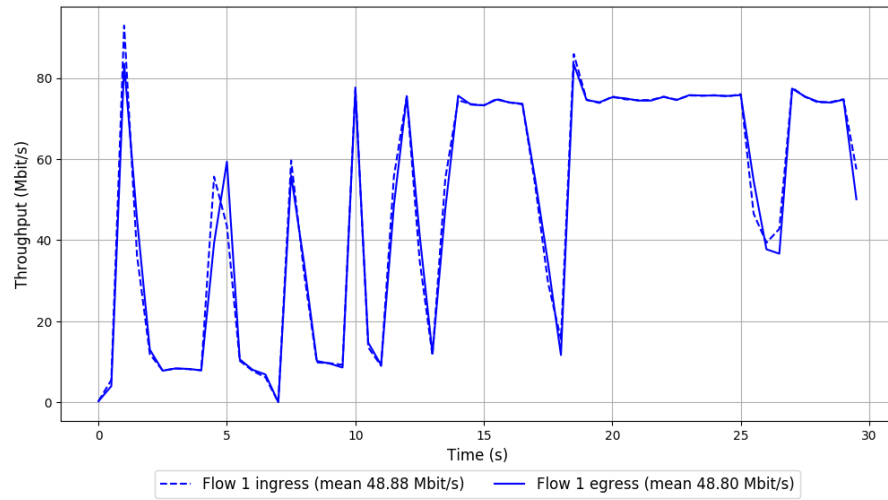
-- Flow 1:

Average throughput: 48.80 Mbit/s

95th percentile per-packet one-way delay: 52.418 ms

Loss rate: 0.53%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-16 06:42:49

End at: 2018-02-16 06:43:19

Below is generated by plot.py at 2018-02-16 11:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.84 Mbit/s

95th percentile per-packet one-way delay: 52.378 ms

Loss rate: 0.48%

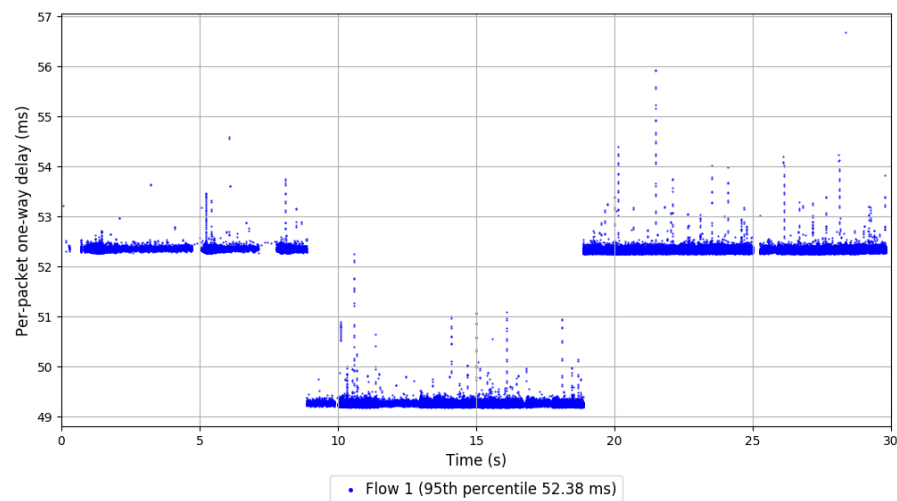
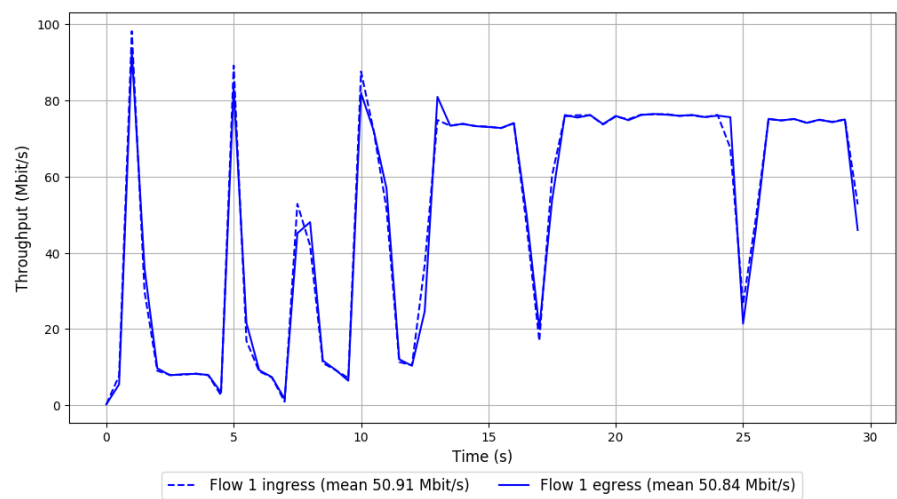
-- Flow 1:

Average throughput: 50.84 Mbit/s

95th percentile per-packet one-way delay: 52.378 ms

Loss rate: 0.48%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-16 06:57:40

End at: 2018-02-16 06:58:10

Below is generated by plot.py at 2018-02-16 11:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.41 Mbit/s

95th percentile per-packet one-way delay: 52.152 ms

Loss rate: 0.49%

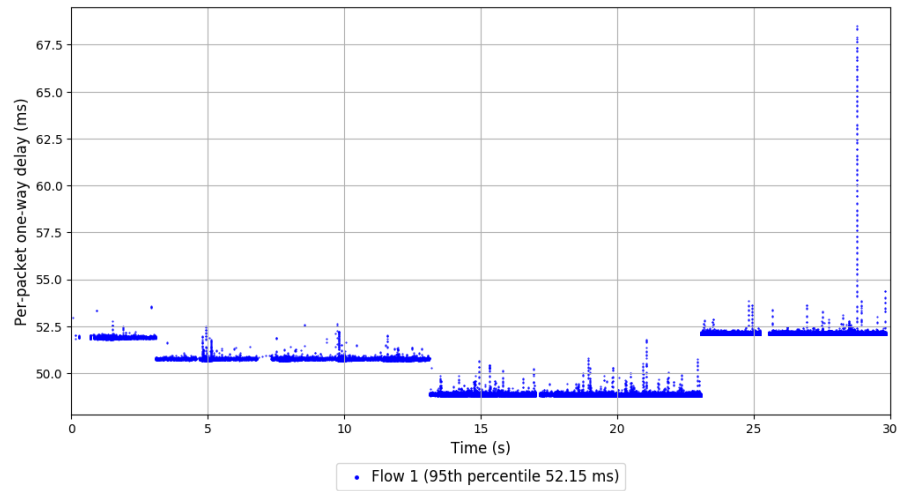
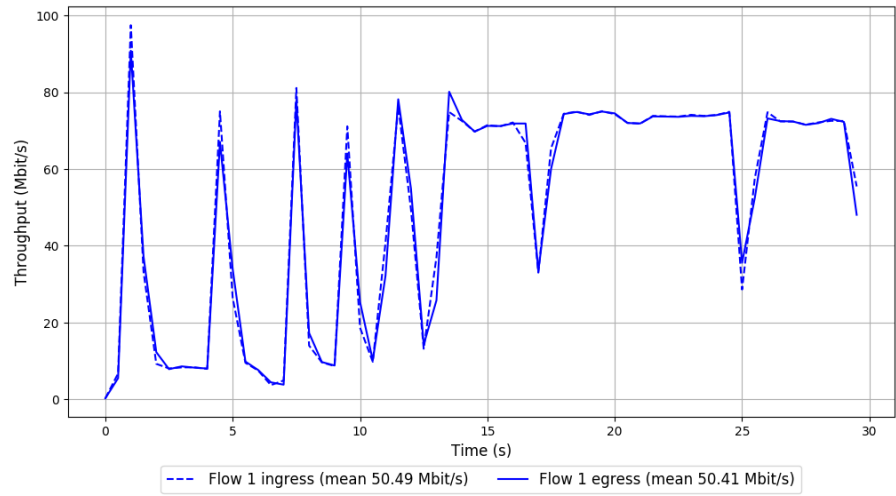
-- Flow 1:

Average throughput: 50.41 Mbit/s

95th percentile per-packet one-way delay: 52.152 ms

Loss rate: 0.49%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-16 07:12:37

End at: 2018-02-16 07:13:07

Below is generated by plot.py at 2018-02-16 11:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.32 Mbit/s

95th percentile per-packet one-way delay: 50.373 ms

Loss rate: 0.55%

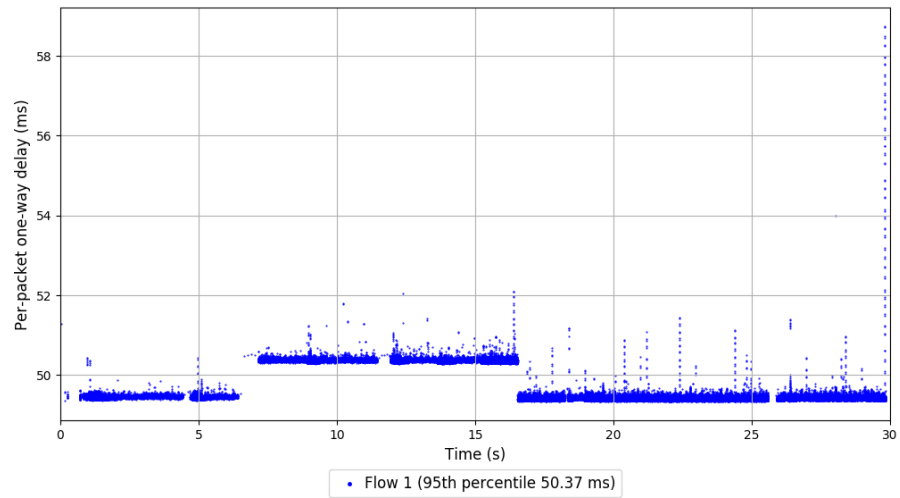
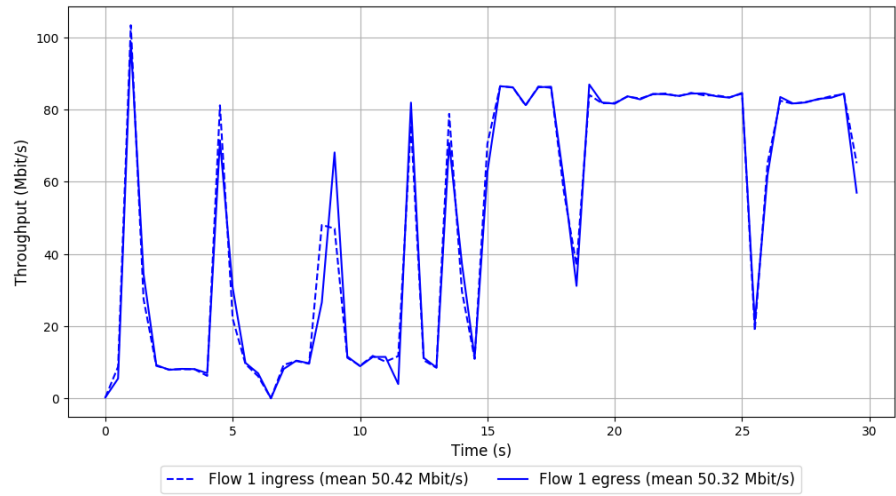
-- Flow 1:

Average throughput: 50.32 Mbit/s

95th percentile per-packet one-way delay: 50.373 ms

Loss rate: 0.55%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-16 07:27:23

End at: 2018-02-16 07:27:53

Below is generated by plot.py at 2018-02-16 11:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.13 Mbit/s

95th percentile per-packet one-way delay: 50.515 ms

Loss rate: 0.47%

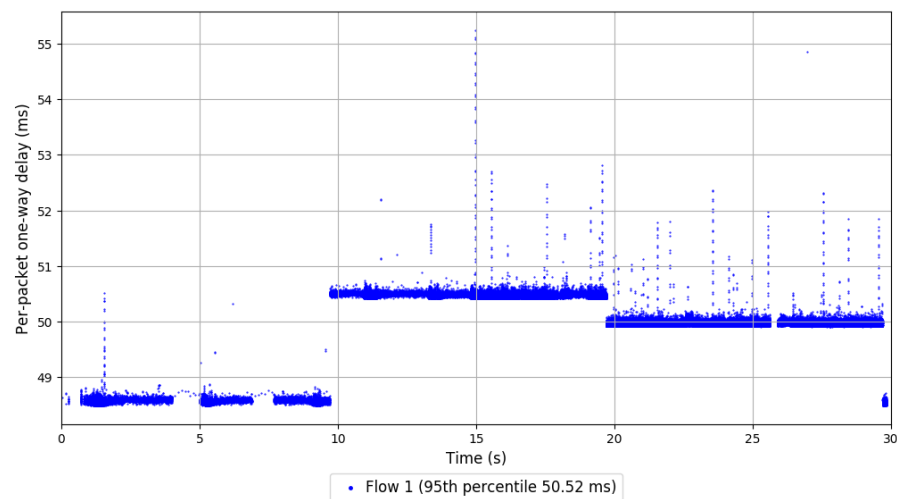
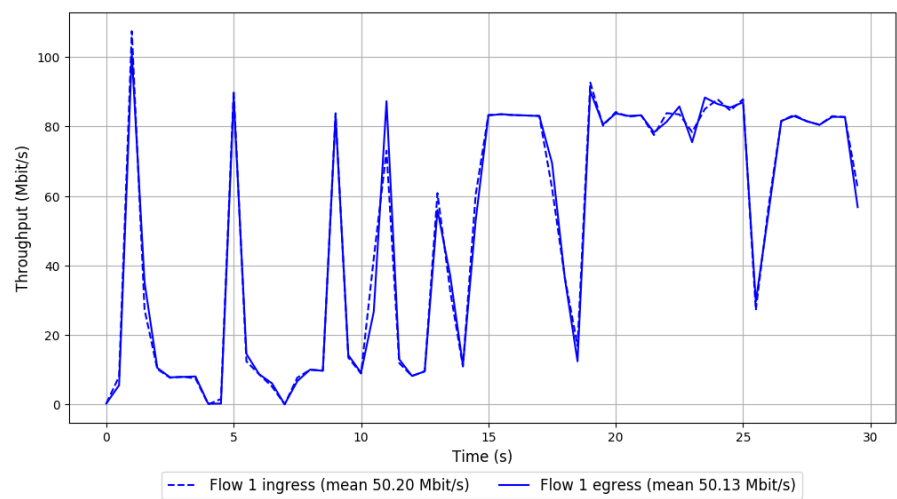
-- Flow 1:

Average throughput: 50.13 Mbit/s

95th percentile per-packet one-way delay: 50.515 ms

Loss rate: 0.47%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-16 07:42:07

End at: 2018-02-16 07:42:38

Below is generated by plot.py at 2018-02-16 11:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.56 Mbit/s

95th percentile per-packet one-way delay: 50.411 ms

Loss rate: 0.53%

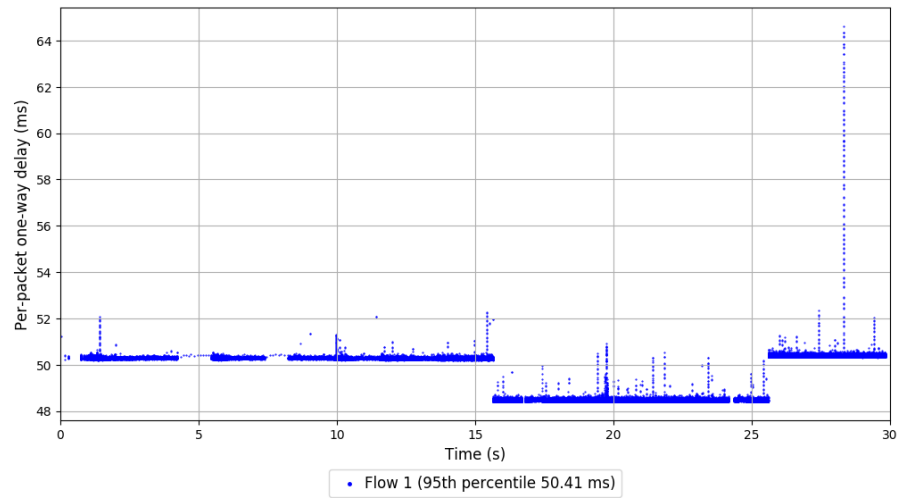
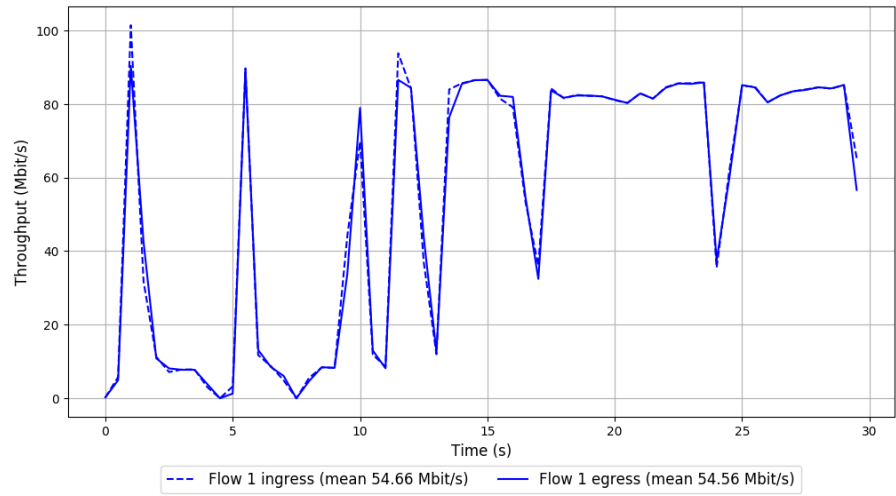
-- Flow 1:

Average throughput: 54.56 Mbit/s

95th percentile per-packet one-way delay: 50.411 ms

Loss rate: 0.53%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-16 07:57:09

End at: 2018-02-16 07:57:39

Below is generated by plot.py at 2018-02-16 11:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.22 Mbit/s

95th percentile per-packet one-way delay: 49.936 ms

Loss rate: 0.58%

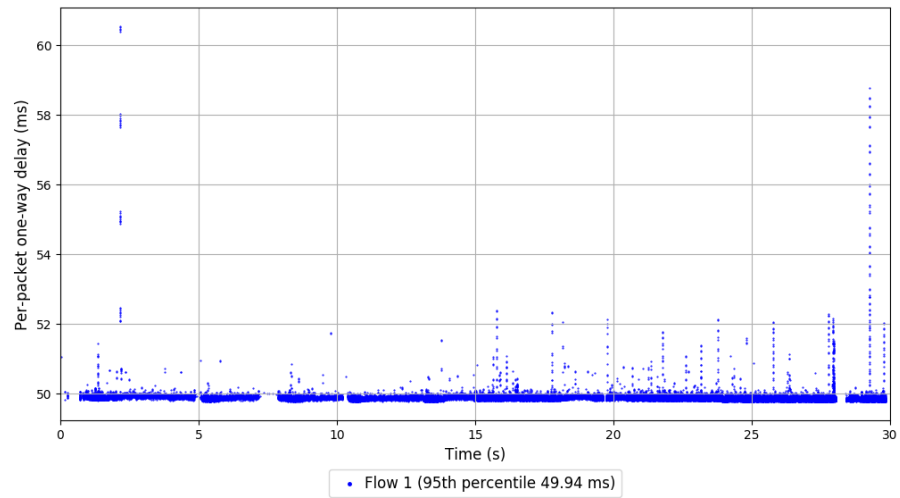
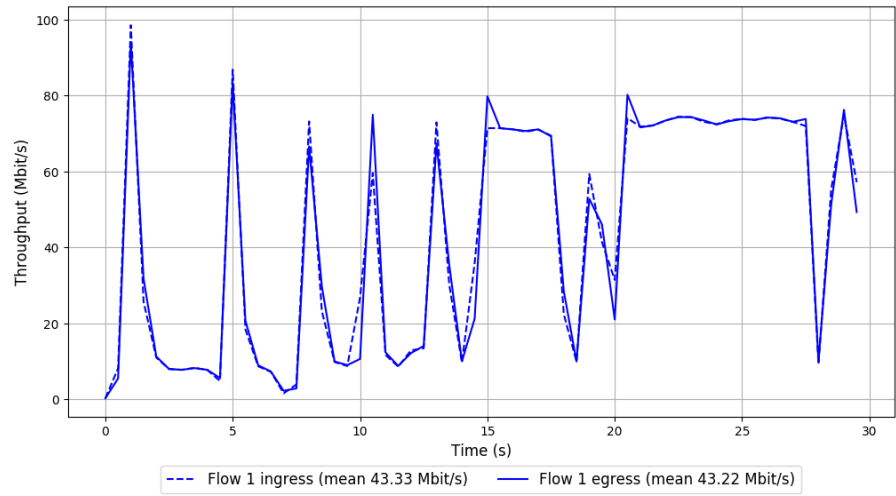
-- Flow 1:

Average throughput: 43.22 Mbit/s

95th percentile per-packet one-way delay: 49.936 ms

Loss rate: 0.58%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-16 08:11:53

End at: 2018-02-16 08:12:23

Below is generated by plot.py at 2018-02-16 11:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.76 Mbit/s

95th percentile per-packet one-way delay: 49.833 ms

Loss rate: 0.49%

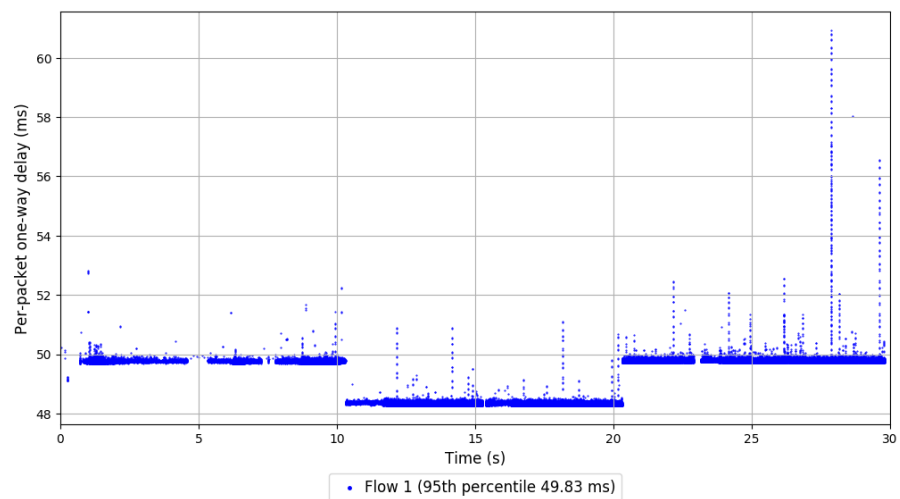
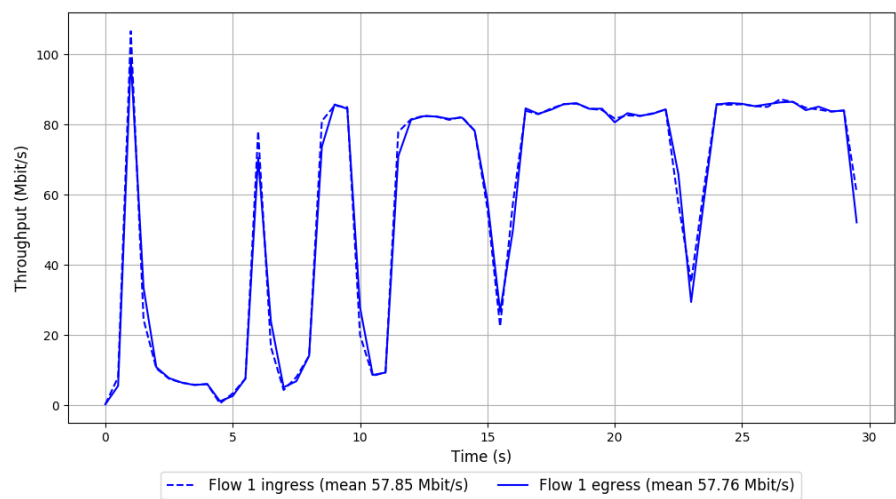
-- Flow 1:

Average throughput: 57.76 Mbit/s

95th percentile per-packet one-way delay: 49.833 ms

Loss rate: 0.49%

Run 9: Report of QUIC Cubic — Data Link

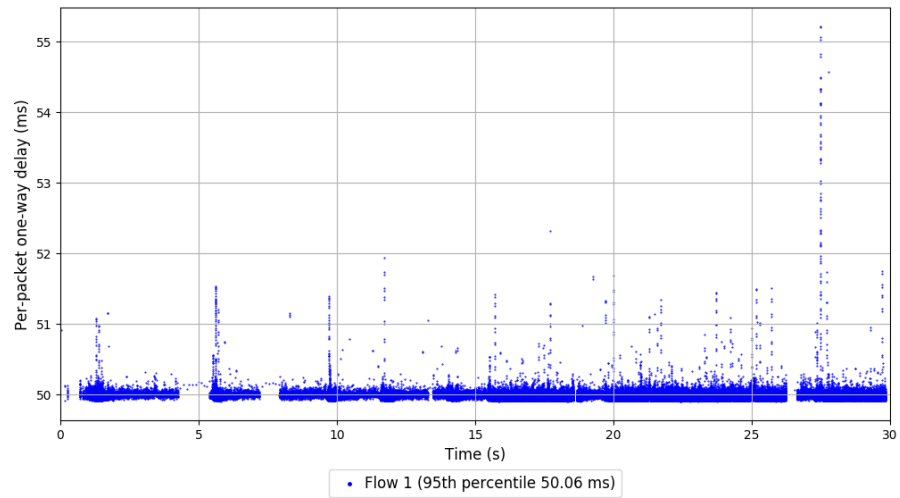
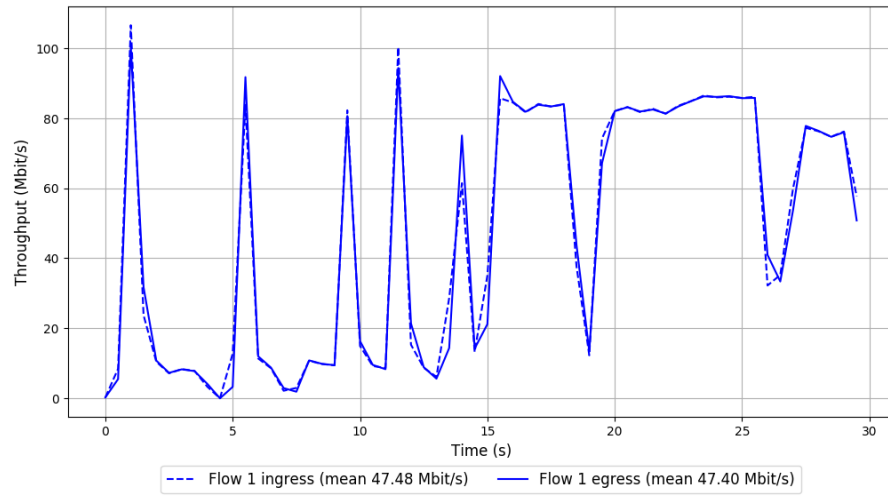


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-02-16 08:26:52
End at: 2018-02-16 08:27:22

# Below is generated by plot.py at 2018-02-16 11:42:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.40 Mbit/s
95th percentile per-packet one-way delay: 50.058 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 47.40 Mbit/s
95th percentile per-packet one-way delay: 50.058 ms
Loss rate: 0.51%
```

Run 10: Report of QUIC Cubic — Data Link

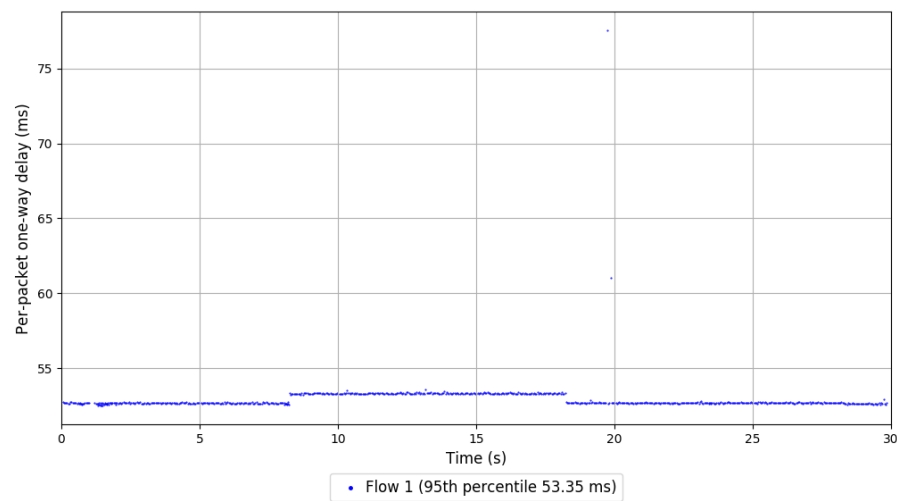
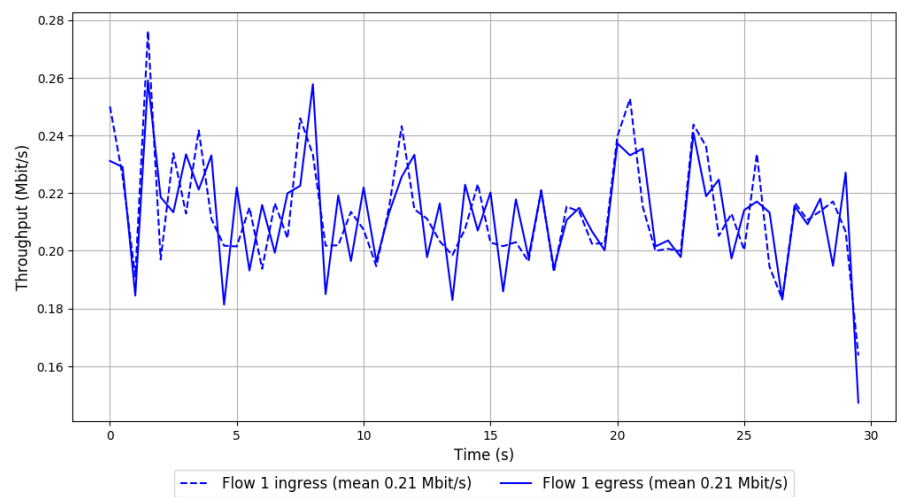


```
Run 1: Statistics of SCReAM

Start at: 2018-02-16 06:02:59
End at: 2018-02-16 06:03:29

# Below is generated by plot.py at 2018-02-16 11:42:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.353 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.353 ms
Loss rate: 0.25%
```

Run 1: Report of SReAM — Data Link

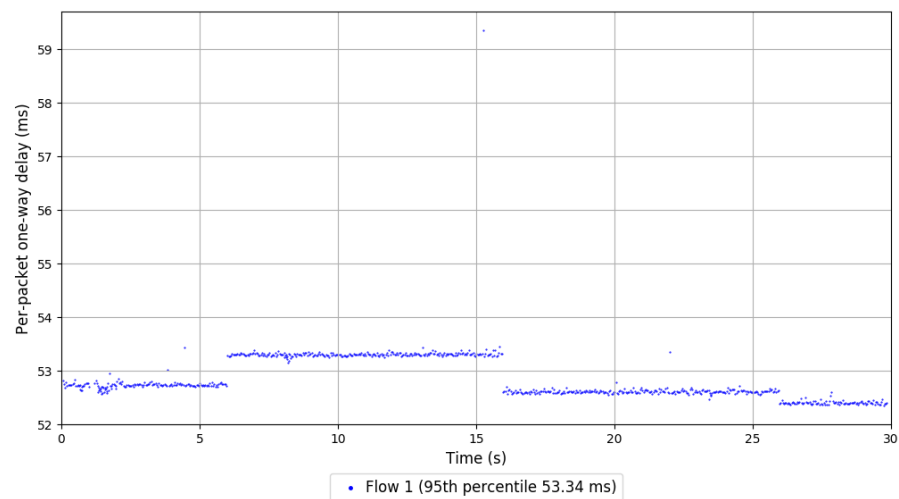
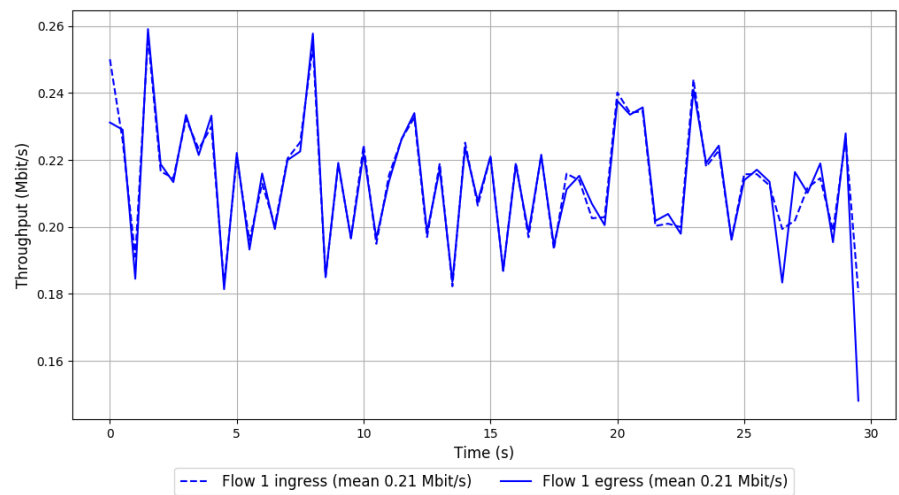


```
Run 2: Statistics of SCReAM

Start at: 2018-02-16 06:17:57
End at: 2018-02-16 06:18:27

# Below is generated by plot.py at 2018-02-16 11:42:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.337 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.337 ms
Loss rate: 0.38%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-02-16 06:32:58

End at: 2018-02-16 06:33:28

Below is generated by plot.py at 2018-02-16 11:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 52.556 ms

Loss rate: 0.38%

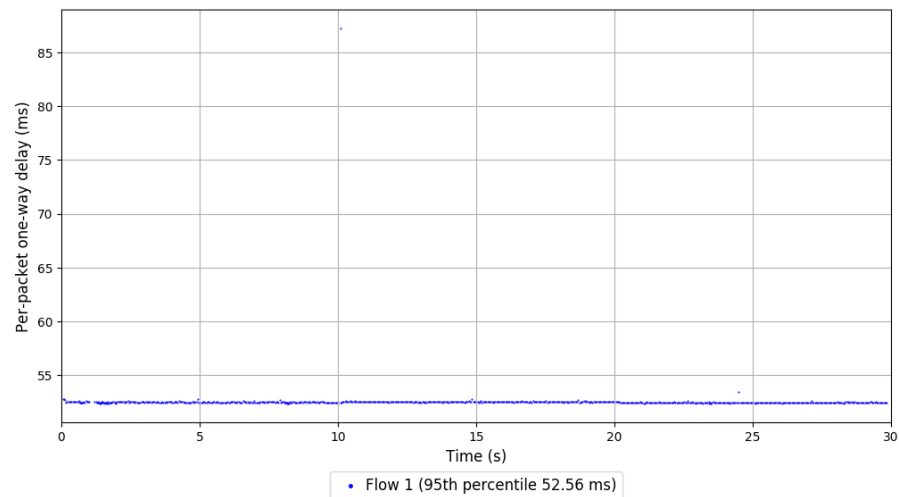
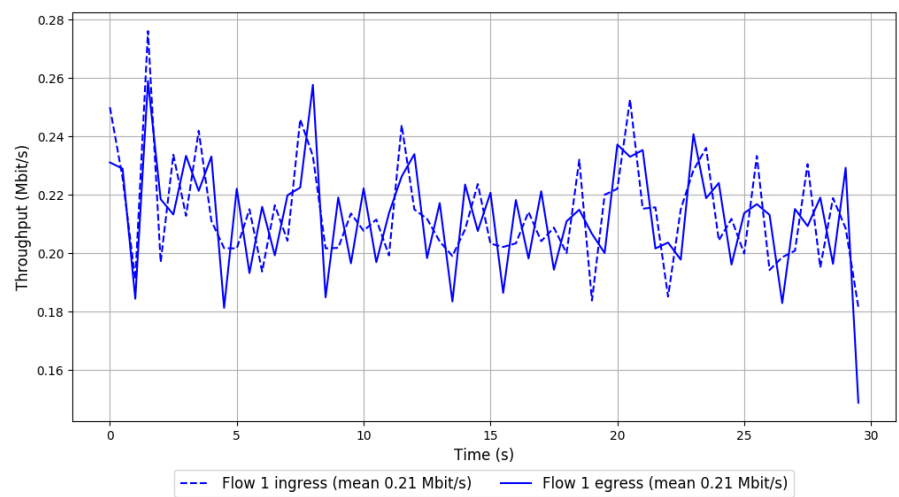
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 52.556 ms

Loss rate: 0.38%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-02-16 06:47:46

End at: 2018-02-16 06:48:16

Below is generated by plot.py at 2018-02-16 11:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 52.858 ms

Loss rate: 0.38%

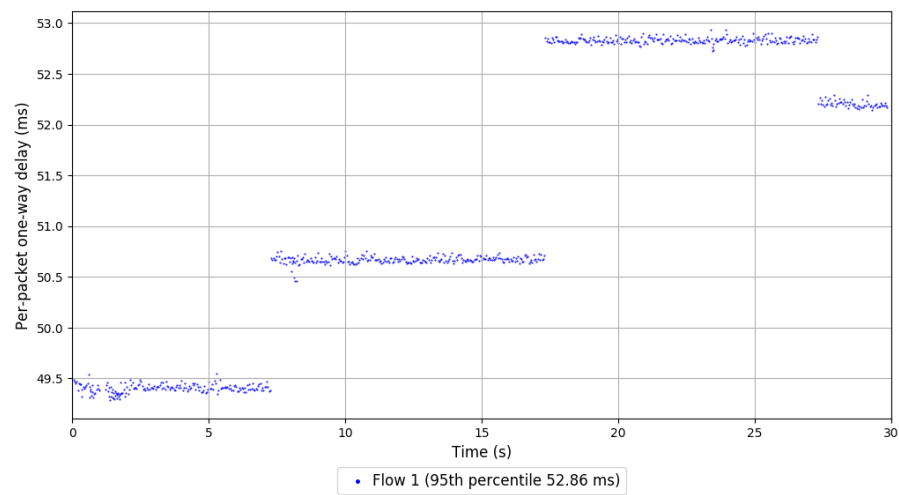
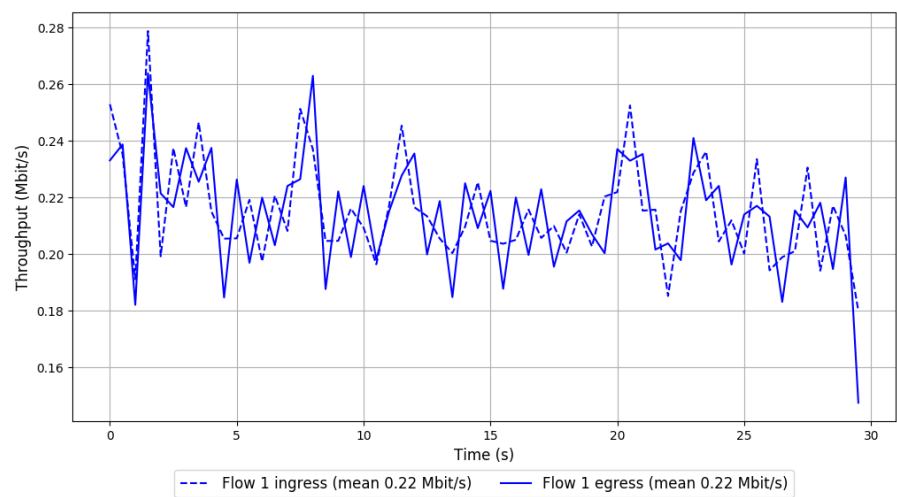
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 52.858 ms

Loss rate: 0.38%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-16 07:02:23

End at: 2018-02-16 07:02:53

Below is generated by plot.py at 2018-02-16 11:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.868 ms

Loss rate: 0.38%

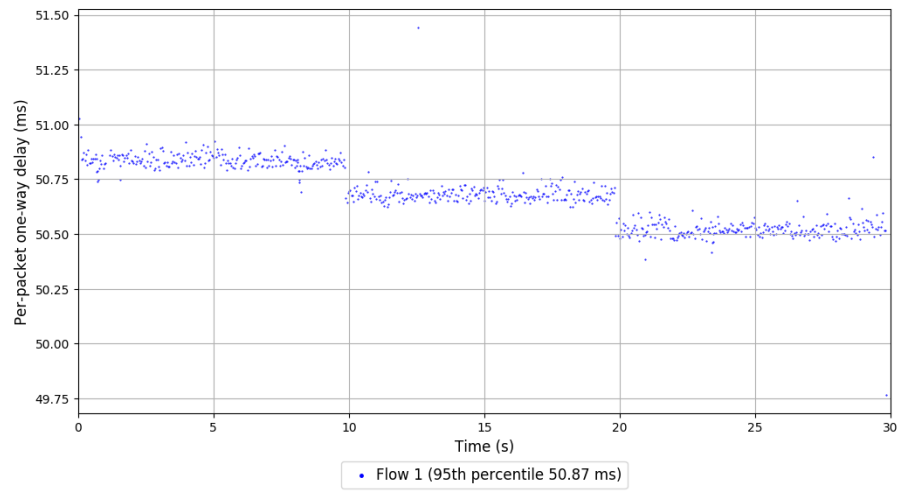
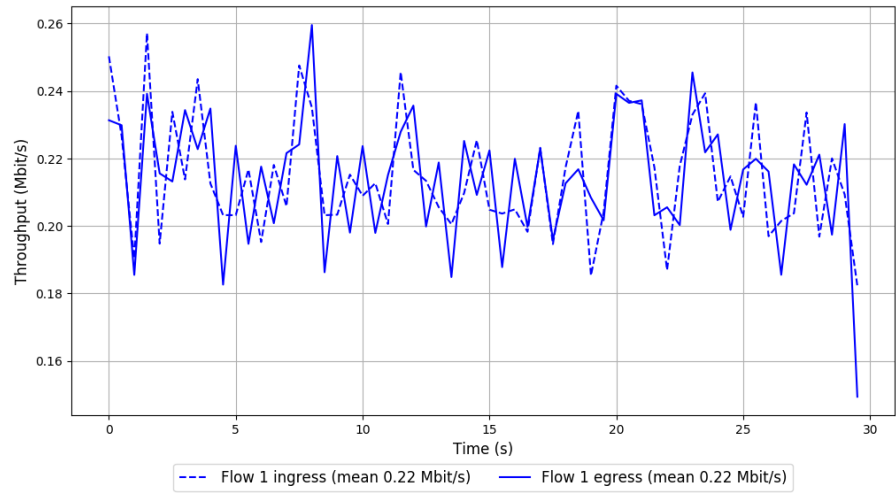
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.868 ms

Loss rate: 0.38%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-02-16 07:17:27

End at: 2018-02-16 07:17:57

Below is generated by plot.py at 2018-02-16 11:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.821 ms

Loss rate: 0.38%

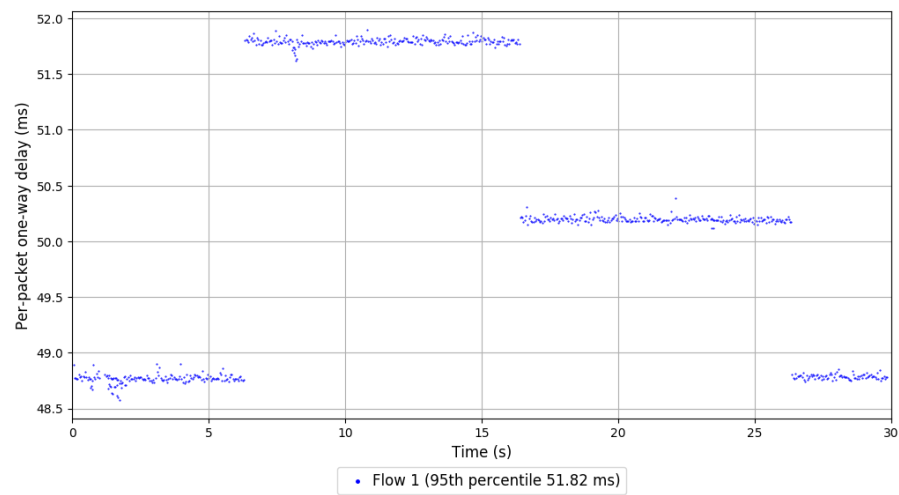
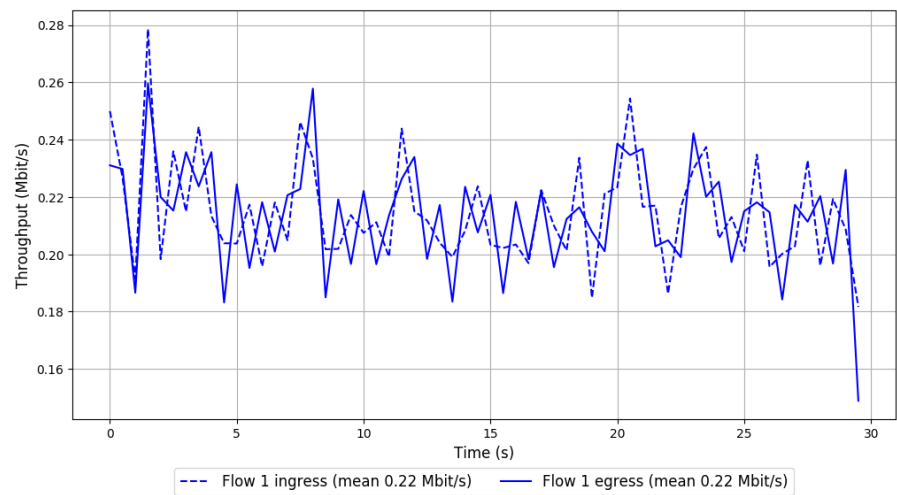
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.821 ms

Loss rate: 0.38%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-02-16 07:32:07

End at: 2018-02-16 07:32:37

Below is generated by plot.py at 2018-02-16 11:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.584 ms

Loss rate: 0.38%

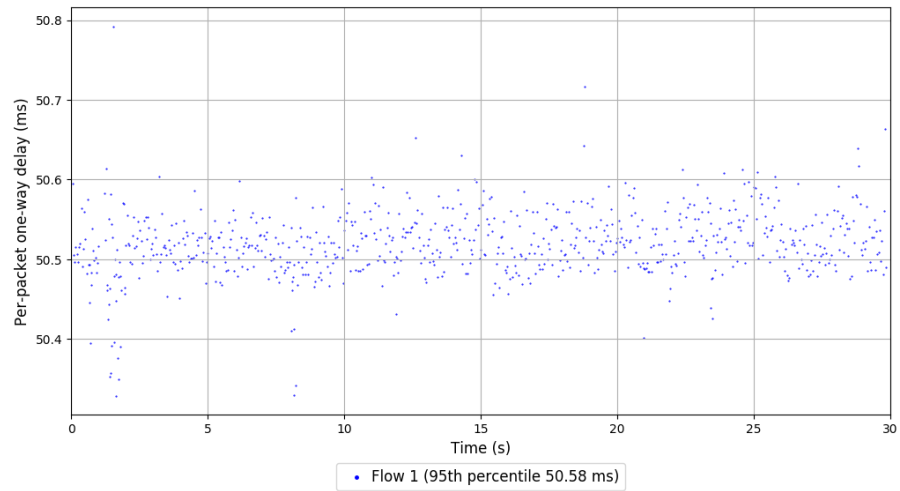
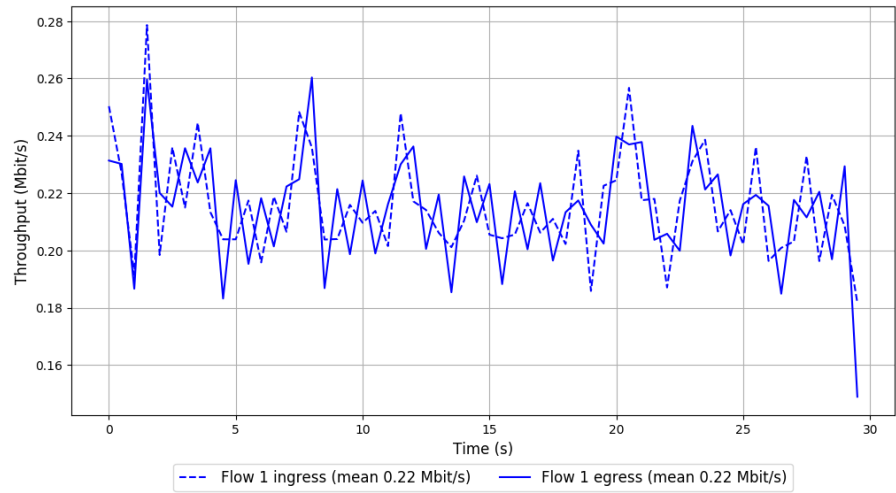
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.584 ms

Loss rate: 0.38%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-16 07:47:05

End at: 2018-02-16 07:47:35

Below is generated by plot.py at 2018-02-16 11:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.466 ms

Loss rate: 0.26%

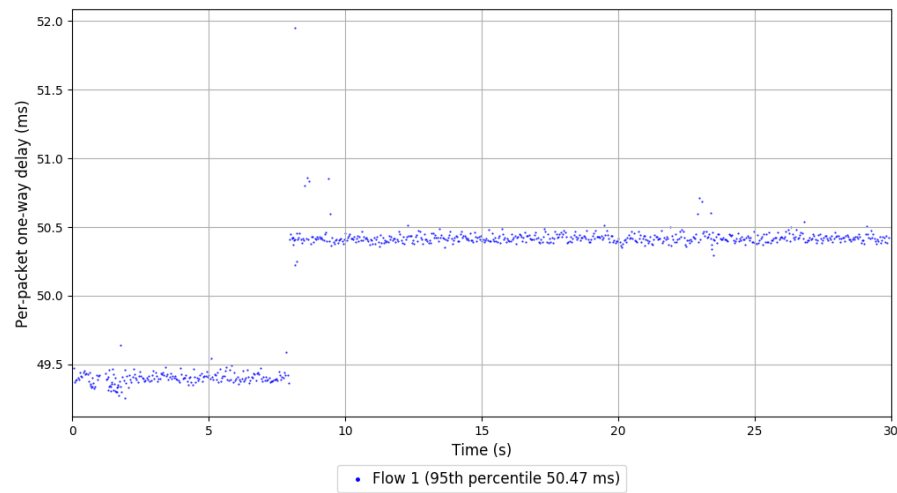
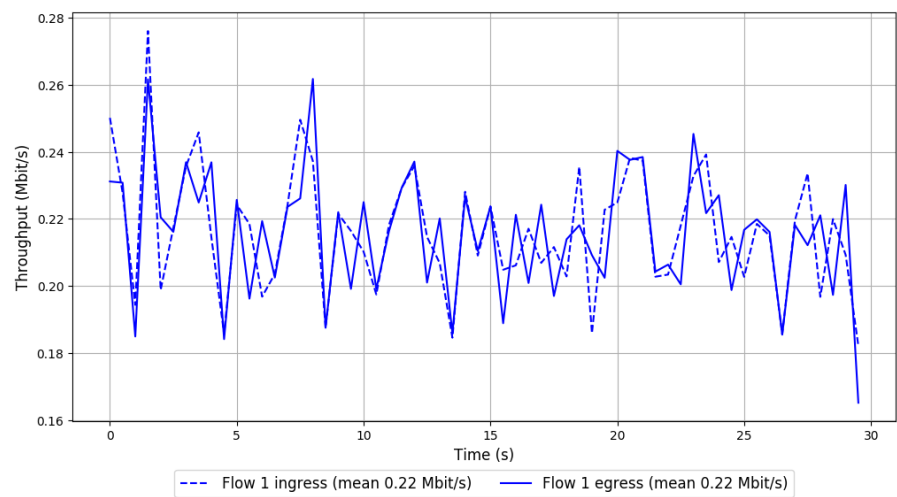
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.466 ms

Loss rate: 0.26%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-02-16 08:01:50

End at: 2018-02-16 08:02:20

Below is generated by plot.py at 2018-02-16 11:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.238 ms

Loss rate: 0.38%

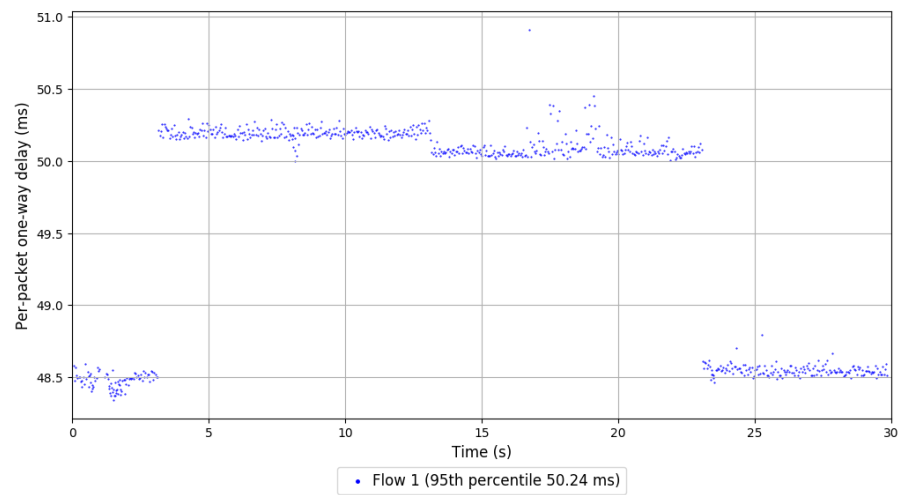
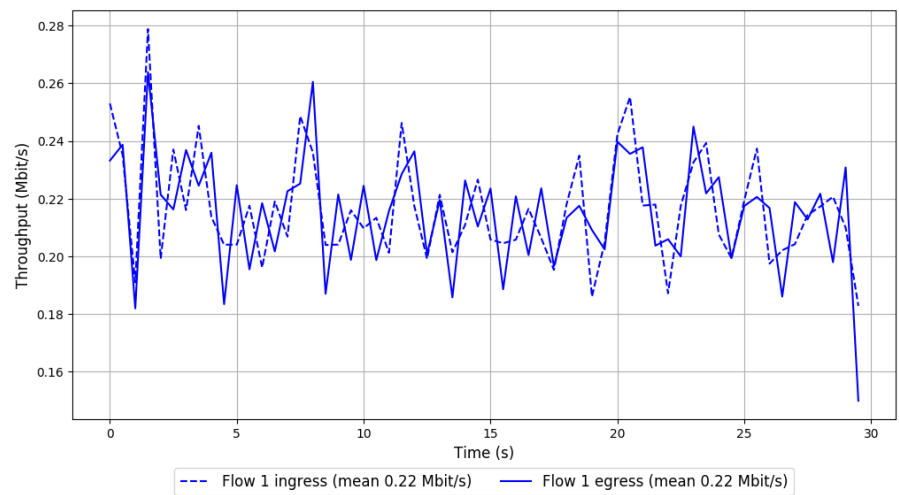
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.238 ms

Loss rate: 0.38%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-16 08:16:44

End at: 2018-02-16 08:17:14

Below is generated by plot.py at 2018-02-16 11:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.246 ms

Loss rate: 0.38%

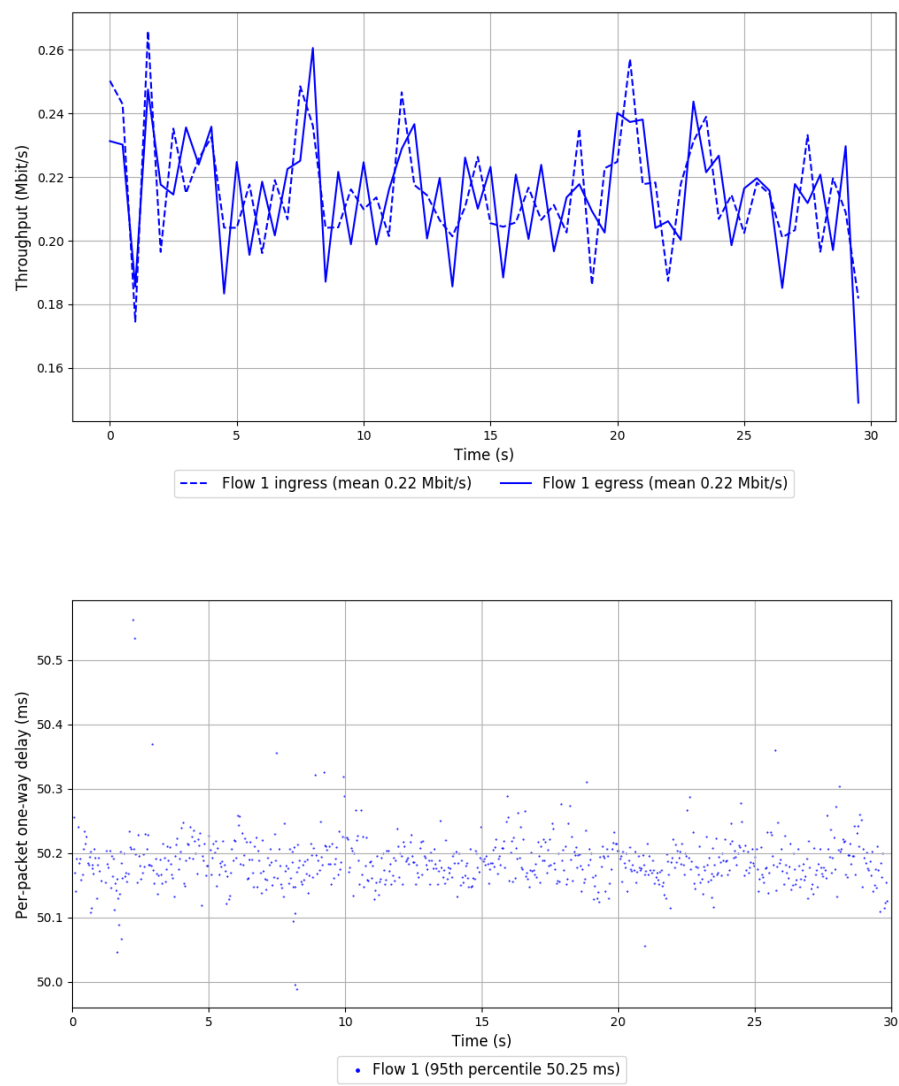
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.246 ms

Loss rate: 0.38%

Run 10: Report of SReAM — Data Link

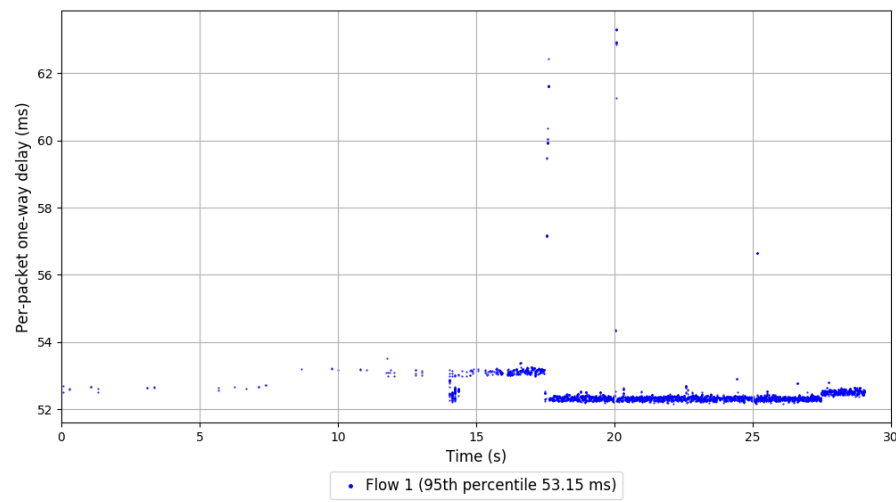
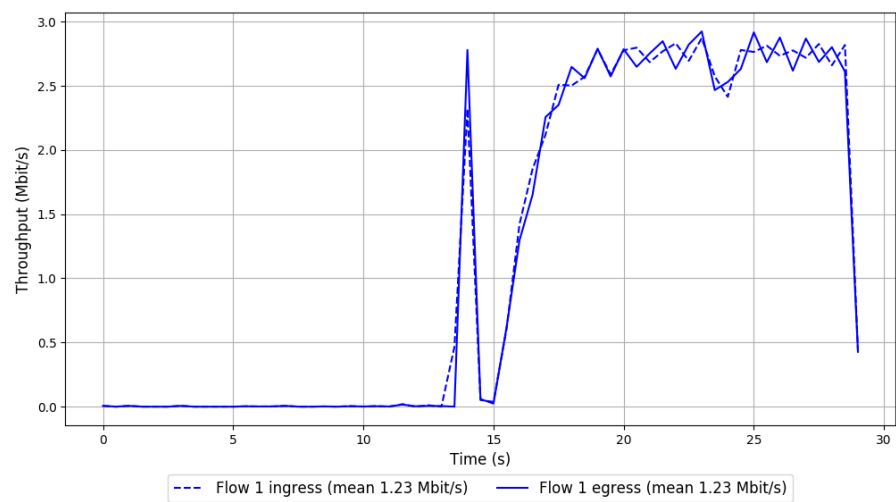


```
Run 1: Statistics of WebRTC media

Start at: 2018-02-16 06:09:29
End at: 2018-02-16 06:09:59

# Below is generated by plot.py at 2018-02-16 11:42:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.23 Mbit/s
95th percentile per-packet one-way delay: 53.145 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 1.23 Mbit/s
95th percentile per-packet one-way delay: 53.145 ms
Loss rate: 0.61%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-16 06:24:30

End at: 2018-02-16 06:25:00

Below is generated by plot.py at 2018-02-16 11:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 52.586 ms

Loss rate: 0.29%

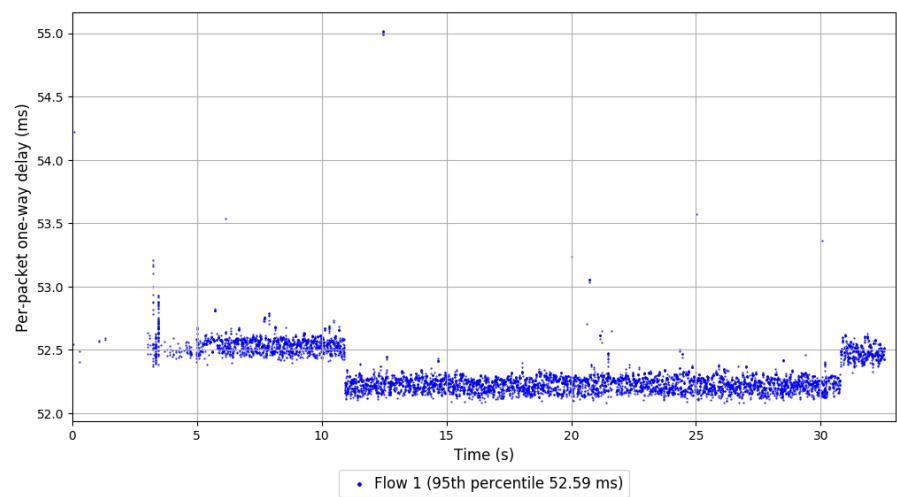
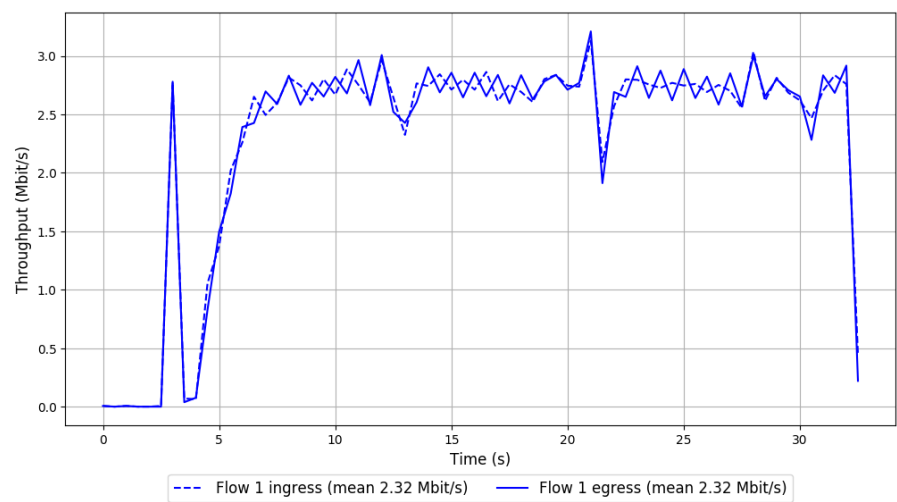
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 52.586 ms

Loss rate: 0.29%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-16 06:39:12

End at: 2018-02-16 06:39:42

Below is generated by plot.py at 2018-02-16 11:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 52.996 ms

Loss rate: 0.29%

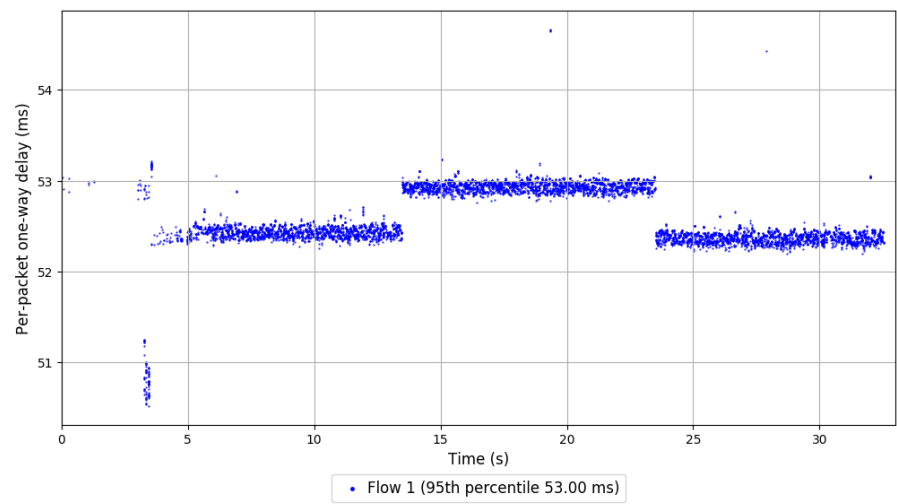
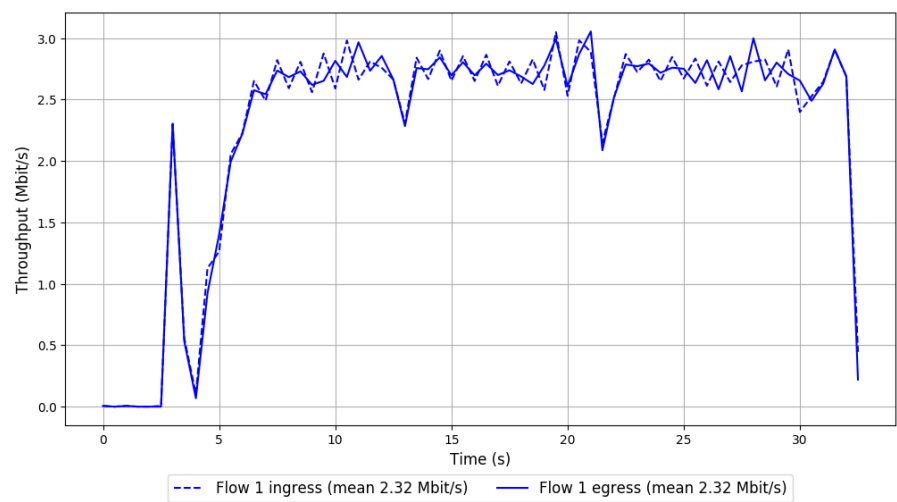
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 52.996 ms

Loss rate: 0.29%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-16 06:54:02

End at: 2018-02-16 06:54:32

Below is generated by plot.py at 2018-02-16 11:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 52.140 ms

Loss rate: 0.43%

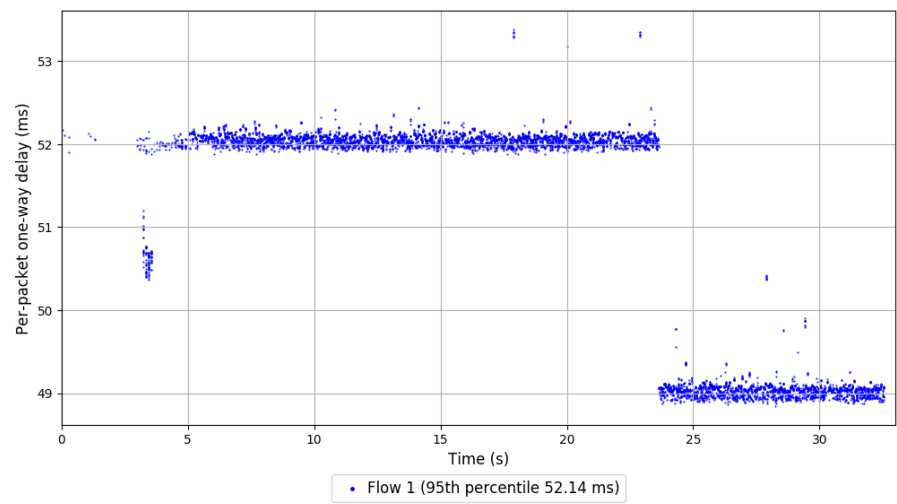
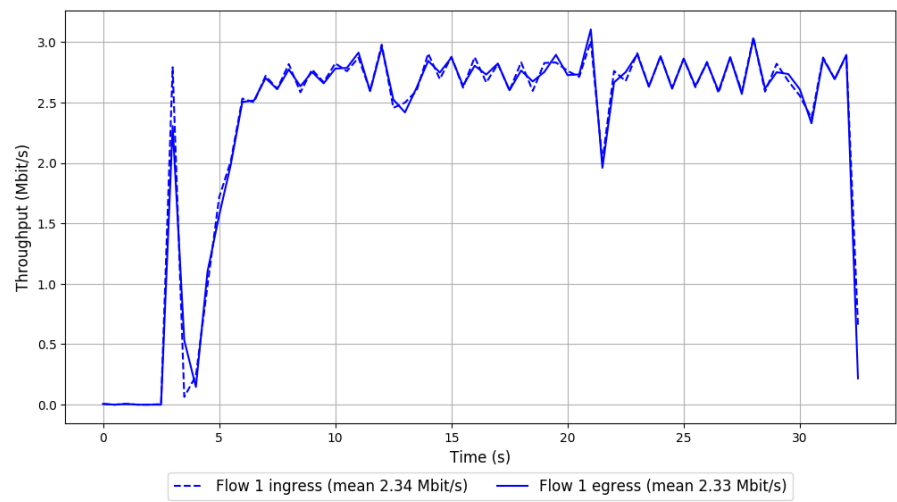
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 52.140 ms

Loss rate: 0.43%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-16 07:08:57

End at: 2018-02-16 07:09:27

Below is generated by plot.py at 2018-02-16 11:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 51.834 ms

Loss rate: 0.43%

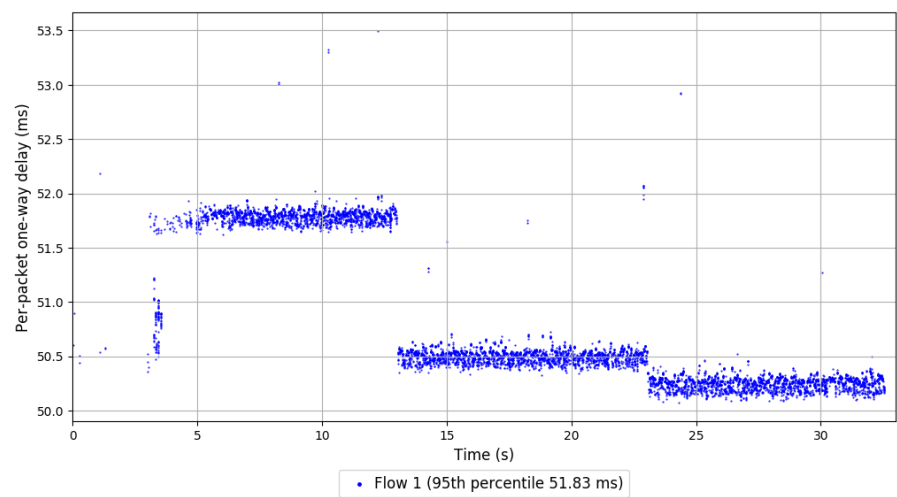
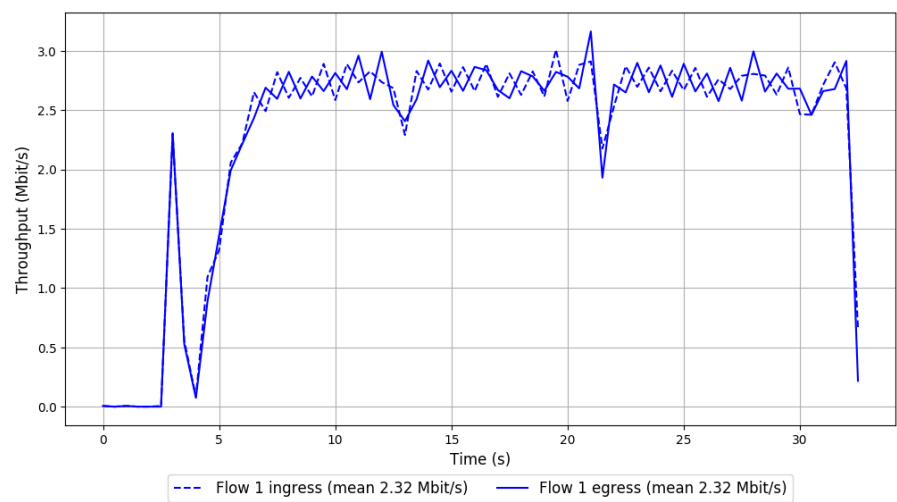
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 51.834 ms

Loss rate: 0.43%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-16 07:23:43

End at: 2018-02-16 07:24:14

Below is generated by plot.py at 2018-02-16 11:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 50.567 ms

Loss rate: 0.43%

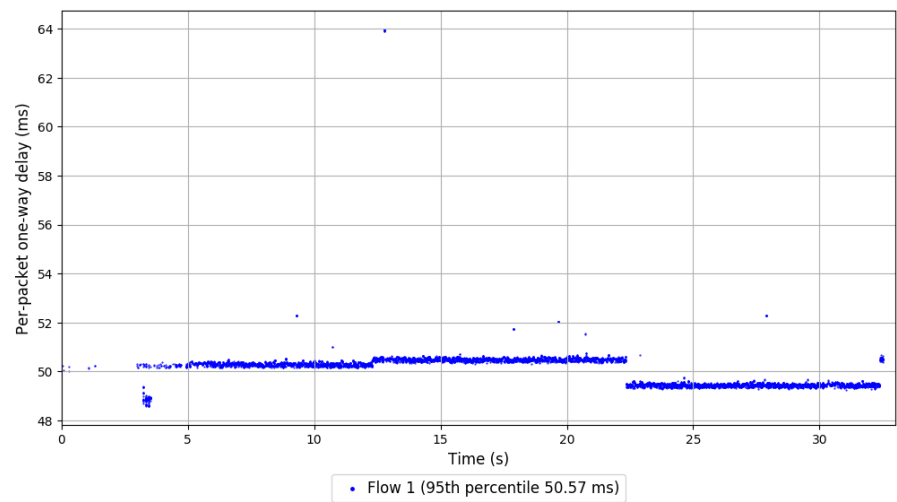
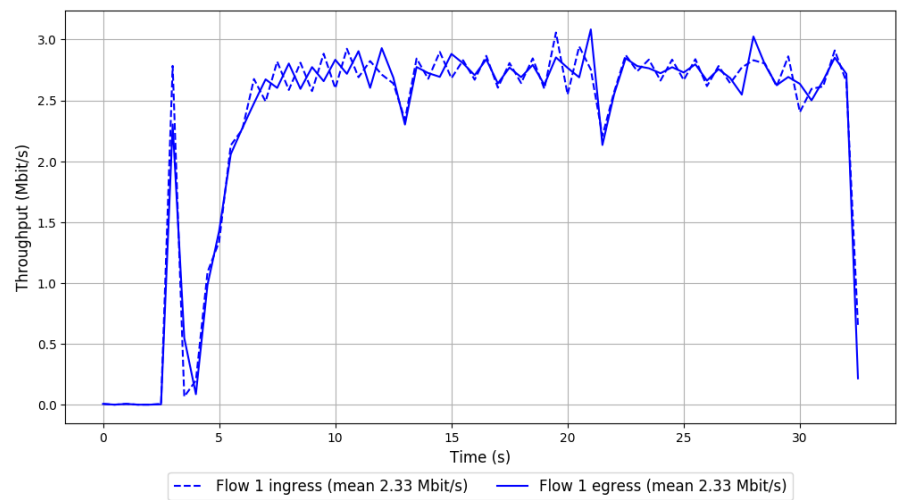
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 50.567 ms

Loss rate: 0.43%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-16 07:38:29

End at: 2018-02-16 07:38:59

Below is generated by plot.py at 2018-02-16 11:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 50.508 ms

Loss rate: 0.33%

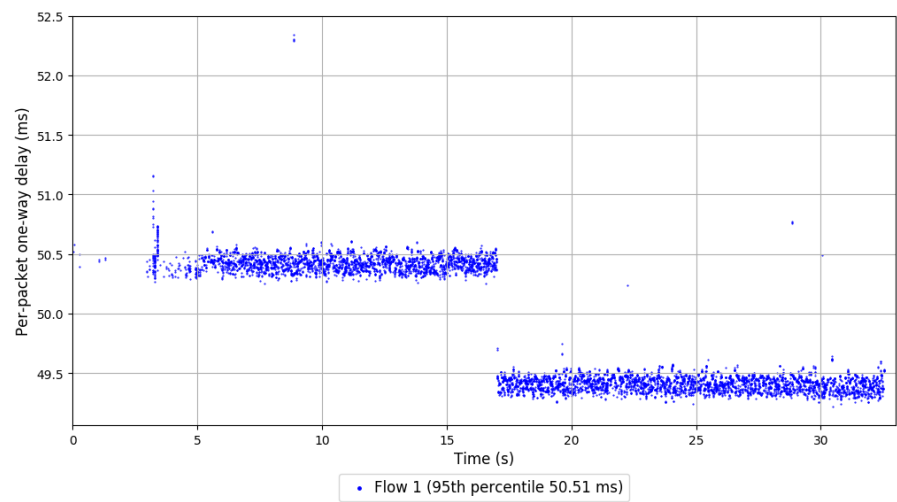
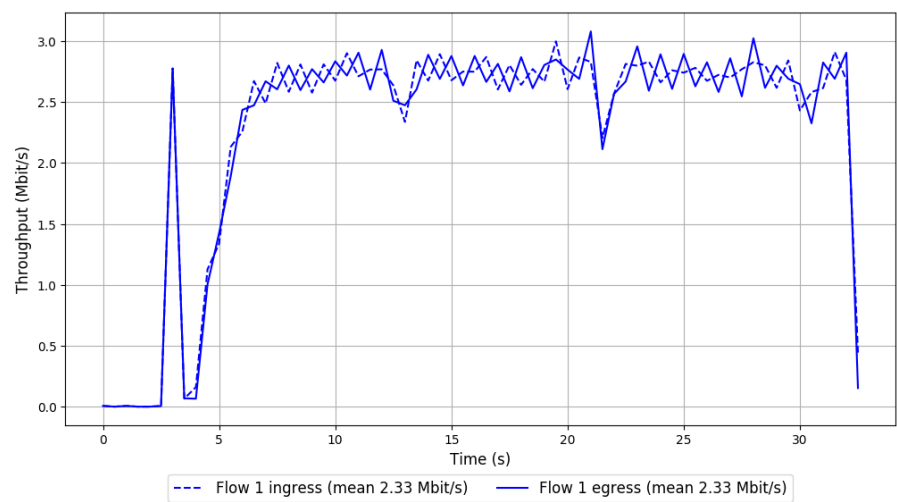
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 50.508 ms

Loss rate: 0.33%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-16 07:53:35

End at: 2018-02-16 07:54:05

Below is generated by plot.py at 2018-02-16 11:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 49.651 ms

Loss rate: 0.30%

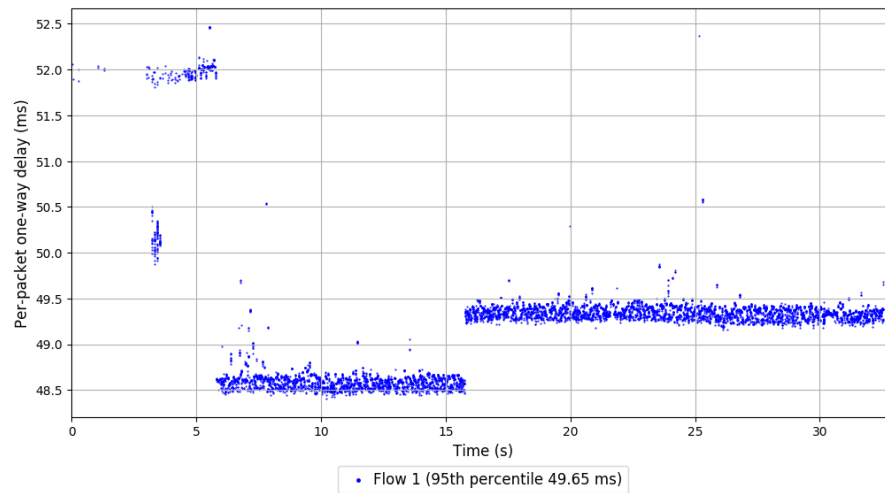
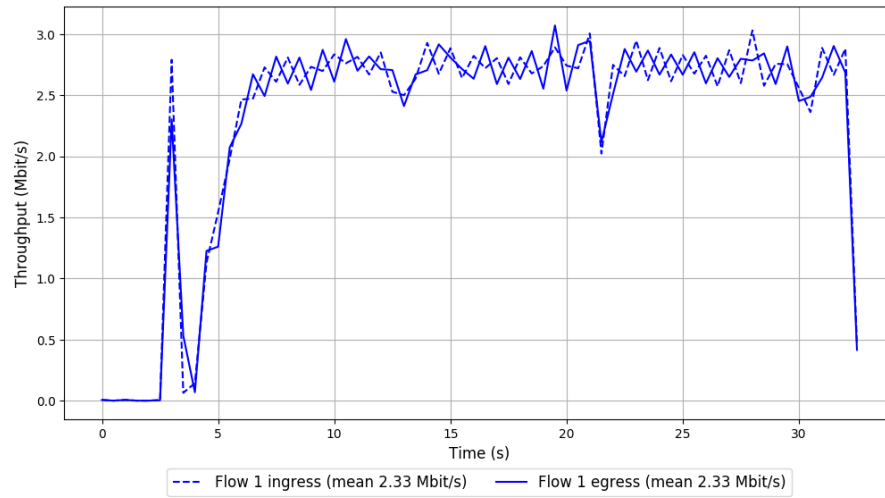
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 49.651 ms

Loss rate: 0.30%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-16 08:08:16

End at: 2018-02-16 08:08:46

Below is generated by plot.py at 2018-02-16 11:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 50.394 ms

Loss rate: 0.43%

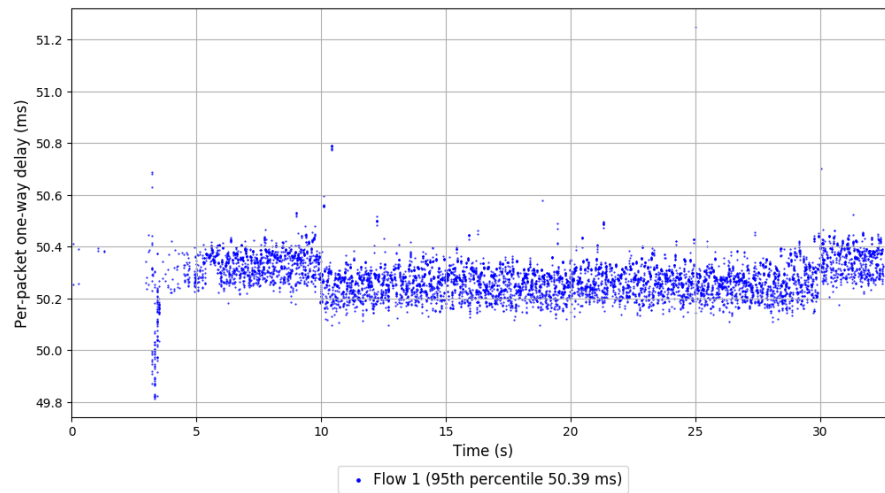
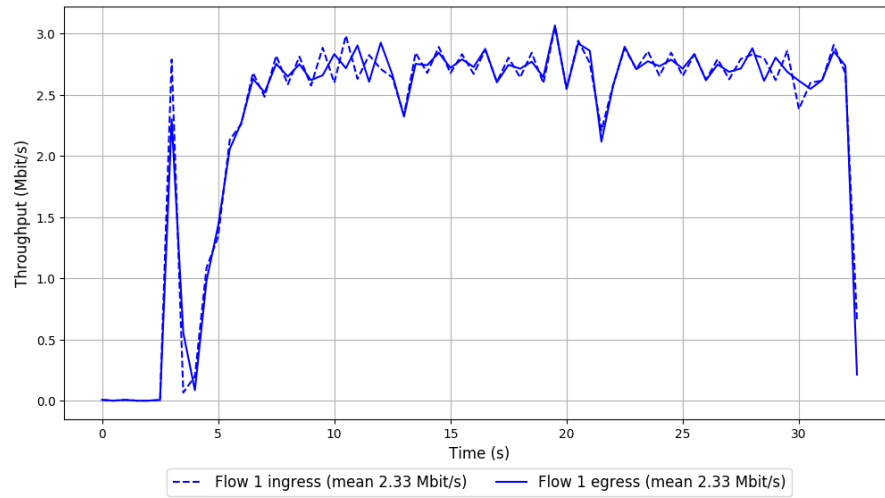
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 50.394 ms

Loss rate: 0.43%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-16 08:23:14

End at: 2018-02-16 08:23:44

Below is generated by plot.py at 2018-02-16 11:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 50.377 ms

Loss rate: 0.43%

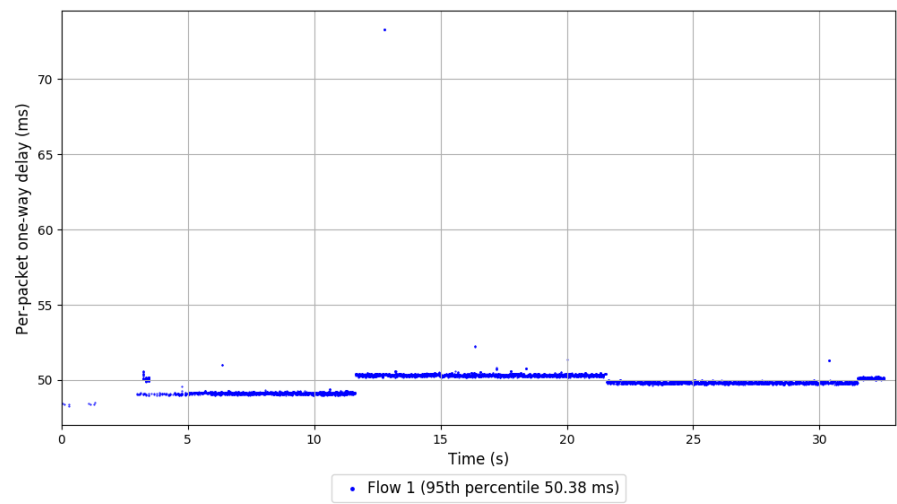
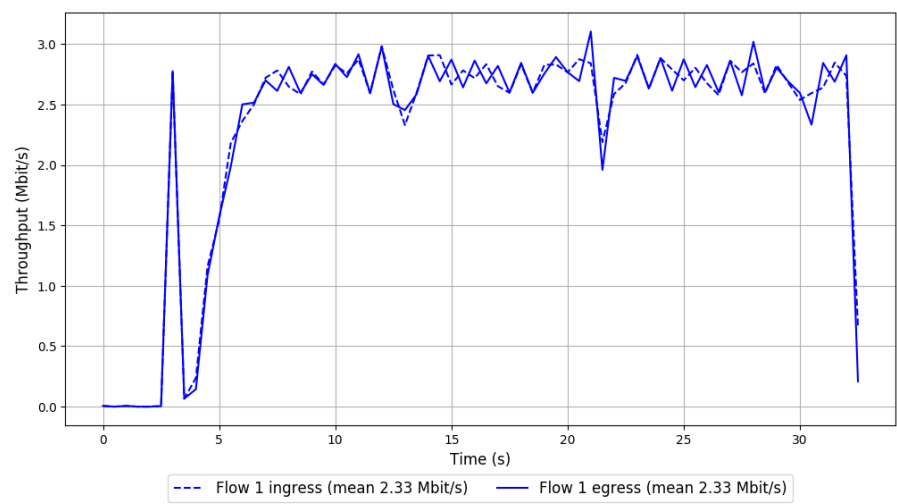
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 50.377 ms

Loss rate: 0.43%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-16 06:05:59

End at: 2018-02-16 06:06:29

Below is generated by plot.py at 2018-02-16 11:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 53.542 ms

Loss rate: 0.40%

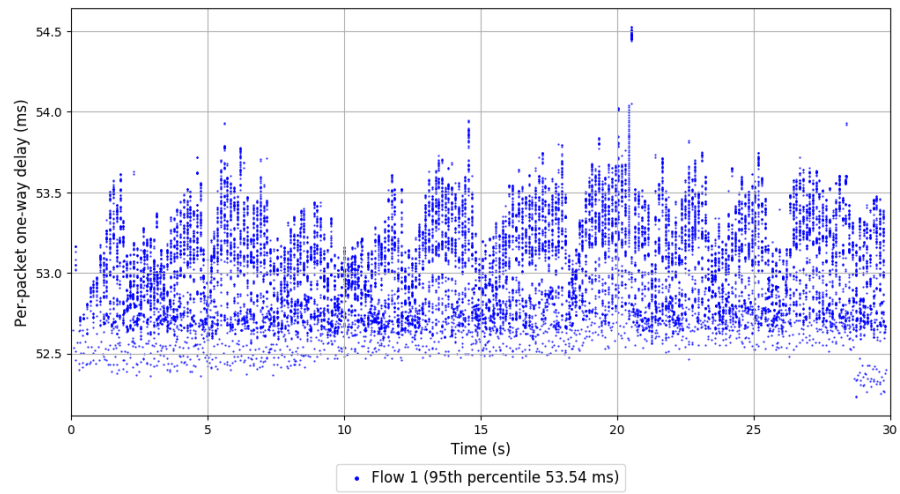
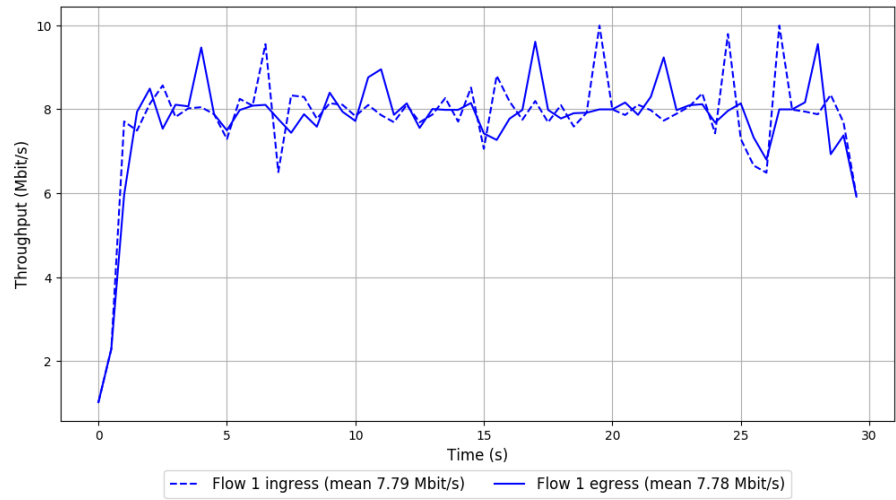
-- Flow 1:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 53.542 ms

Loss rate: 0.40%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-16 06:20:59

End at: 2018-02-16 06:21:29

Below is generated by plot.py at 2018-02-16 11:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.80 Mbit/s

95th percentile per-packet one-way delay: 53.445 ms

Loss rate: 0.39%

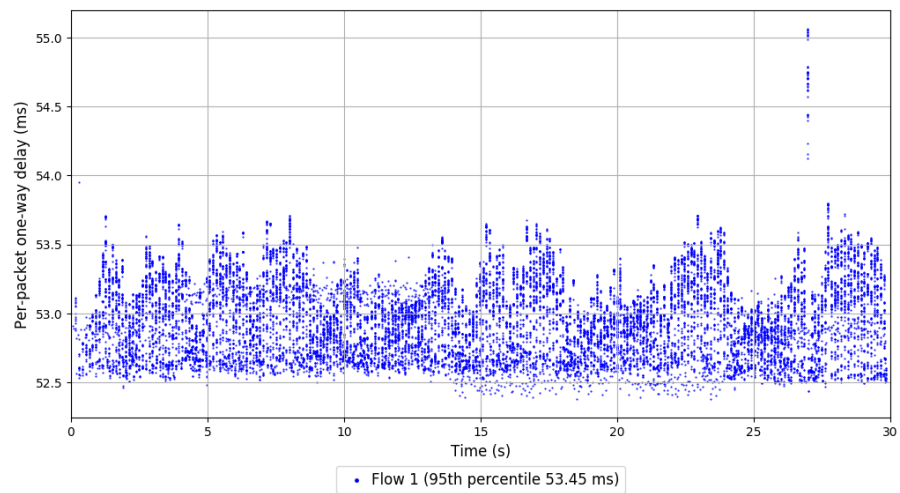
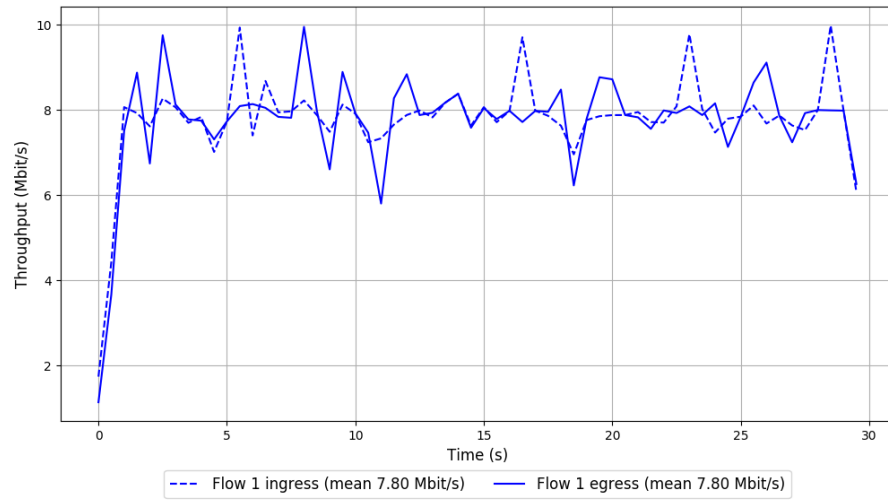
-- Flow 1:

Average throughput: 7.80 Mbit/s

95th percentile per-packet one-way delay: 53.445 ms

Loss rate: 0.39%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-16 06:36:02

End at: 2018-02-16 06:36:32

Below is generated by plot.py at 2018-02-16 11:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 53.330 ms

Loss rate: 0.41%

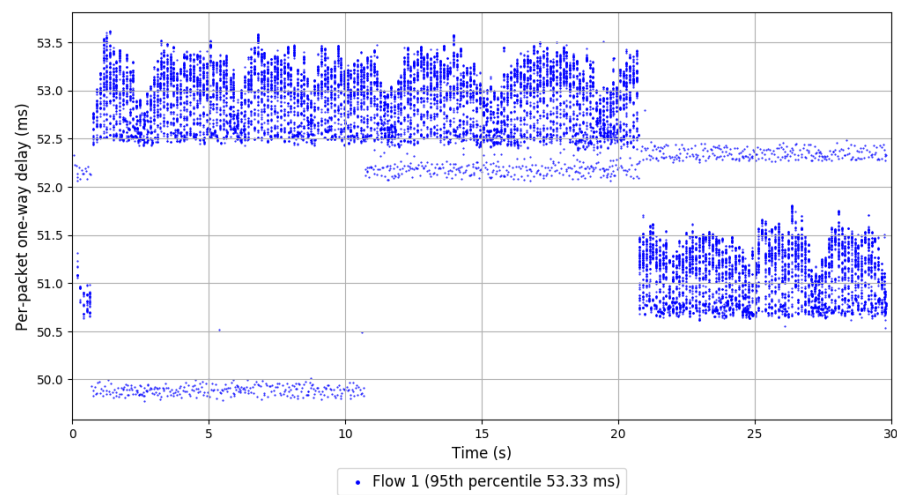
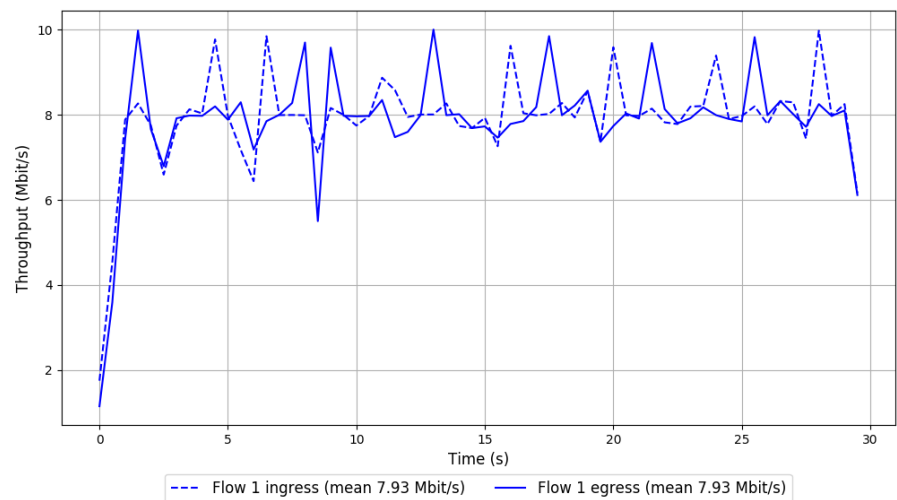
-- Flow 1:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 53.330 ms

Loss rate: 0.41%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-16 06:50:45

End at: 2018-02-16 06:51:15

Below is generated by plot.py at 2018-02-16 11:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 51.490 ms

Loss rate: 0.41%

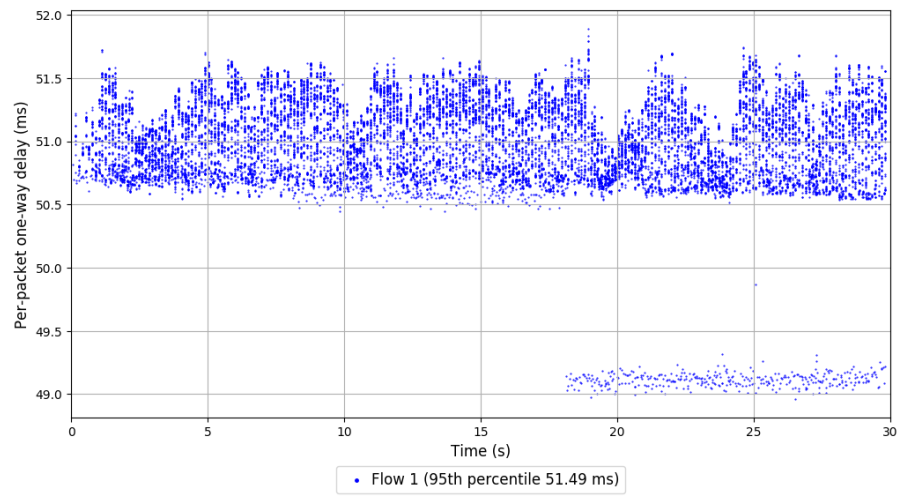
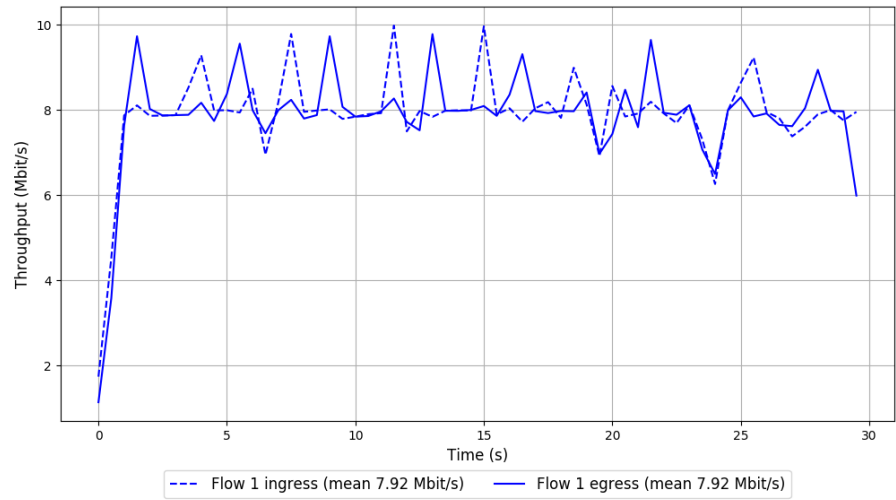
-- Flow 1:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 51.490 ms

Loss rate: 0.41%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-16 07:05:29

End at: 2018-02-16 07:05:59

Below is generated by plot.py at 2018-02-16 11:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 51.571 ms

Loss rate: 0.42%

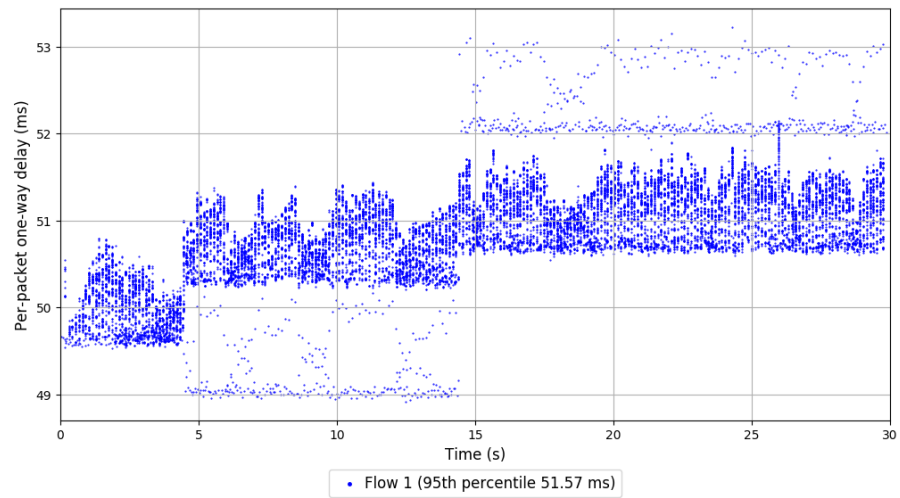
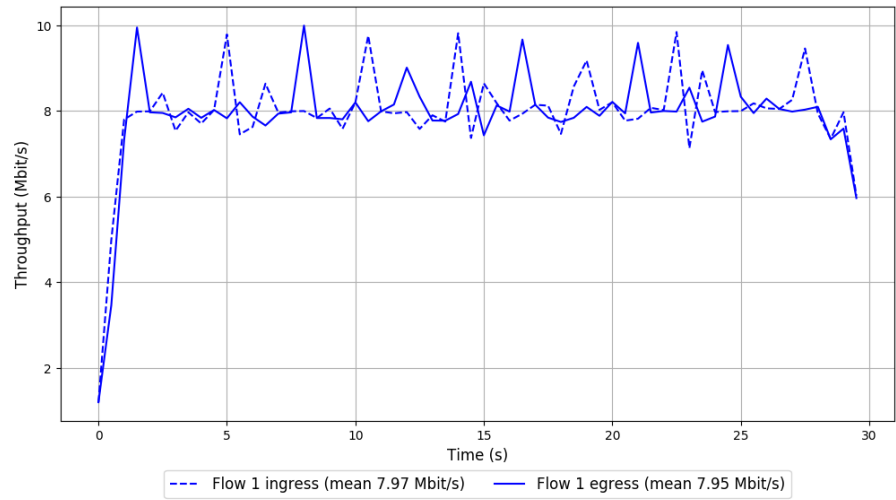
-- Flow 1:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 51.571 ms

Loss rate: 0.42%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-16 07:20:28

End at: 2018-02-16 07:20:58

Below is generated by plot.py at 2018-02-16 11:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 51.378 ms

Loss rate: 0.42%

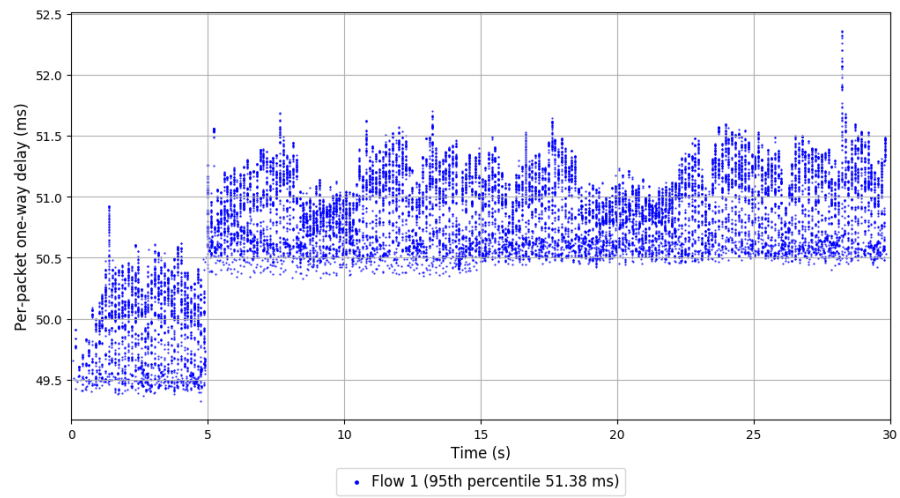
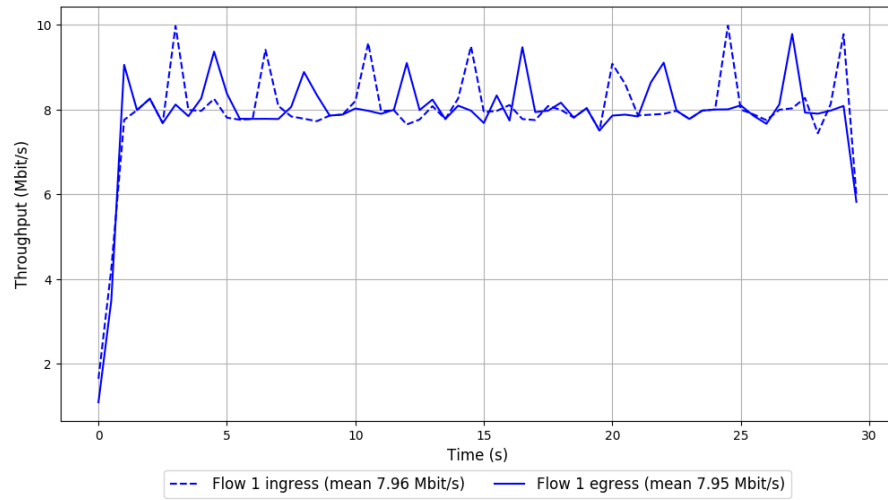
-- Flow 1:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 51.378 ms

Loss rate: 0.42%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-16 07:35:09

End at: 2018-02-16 07:35:39

Below is generated by plot.py at 2018-02-16 11:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 51.409 ms

Loss rate: 0.42%

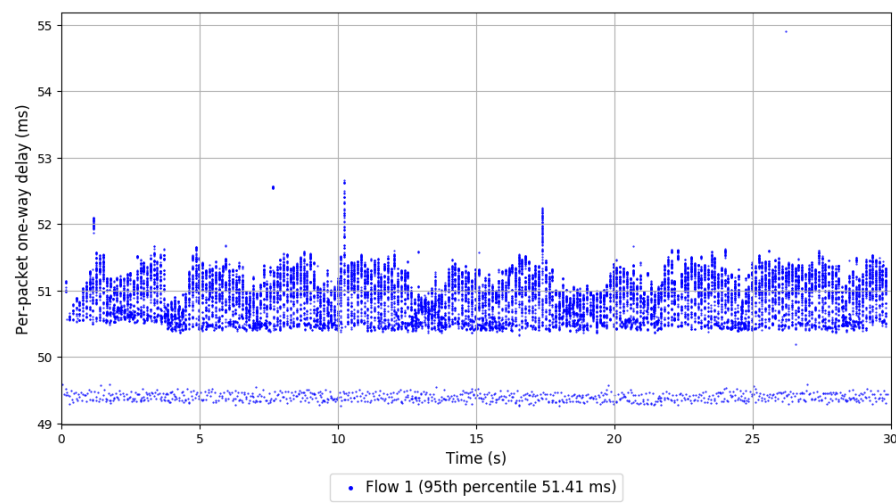
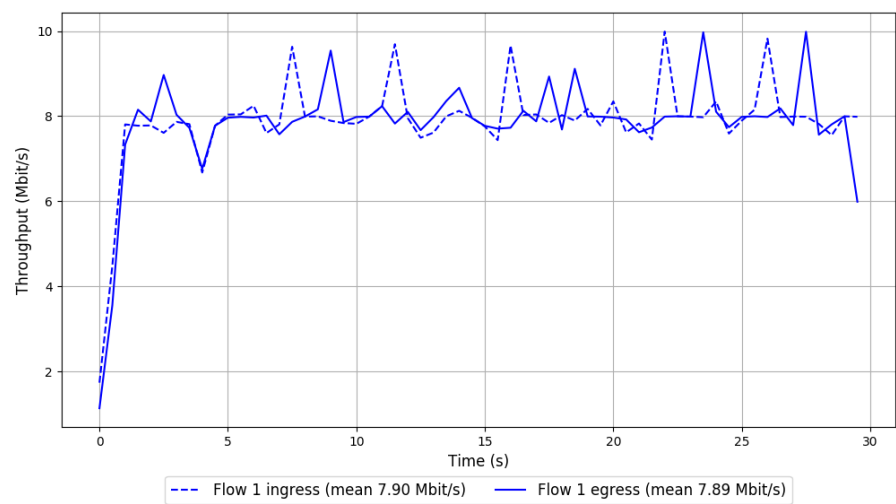
-- Flow 1:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 51.409 ms

Loss rate: 0.42%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-16 07:50:06

End at: 2018-02-16 07:50:36

Below is generated by plot.py at 2018-02-16 11:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.97 Mbit/s

95th percentile per-packet one-way delay: 51.260 ms

Loss rate: 0.47%

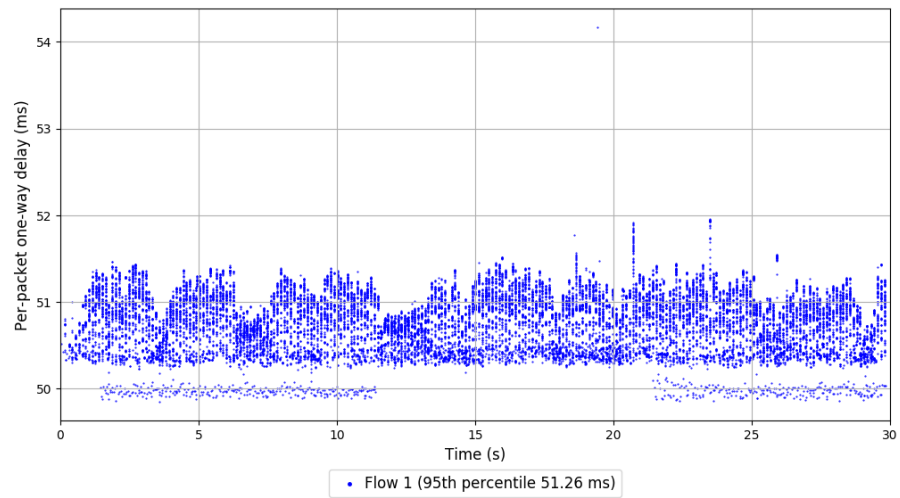
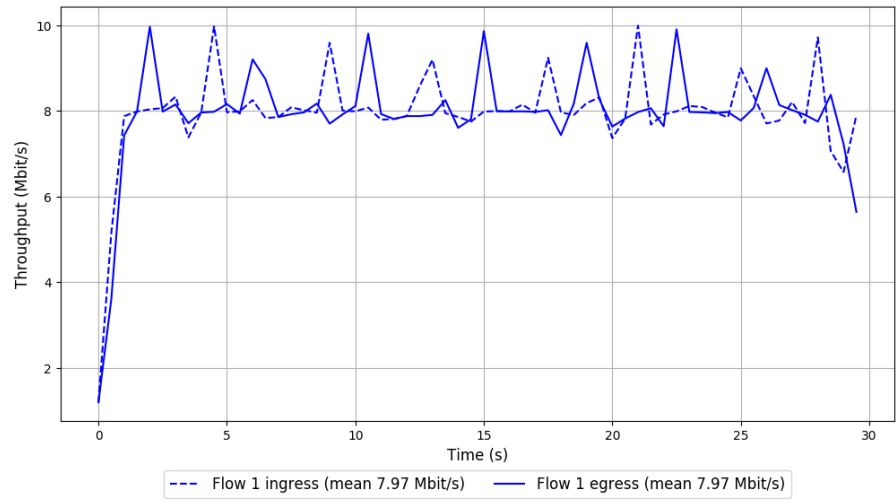
-- Flow 1:

Average throughput: 7.97 Mbit/s

95th percentile per-packet one-way delay: 51.260 ms

Loss rate: 0.47%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-16 08:04:54

End at: 2018-02-16 08:05:24

Below is generated by plot.py at 2018-02-16 11:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 51.228 ms

Loss rate: 0.02%

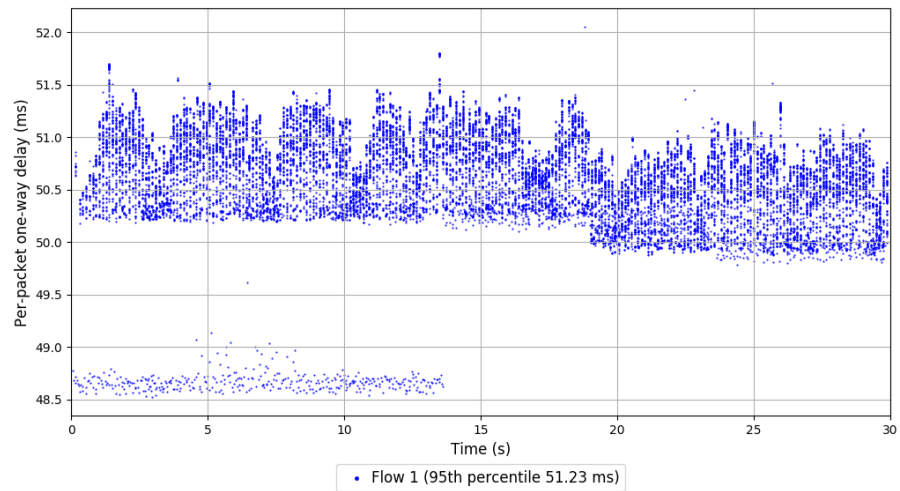
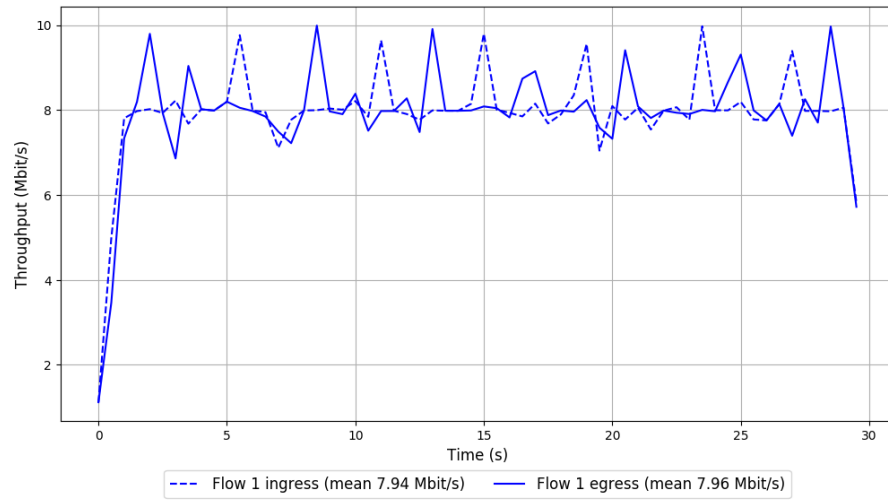
-- Flow 1:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 51.228 ms

Loss rate: 0.02%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-16 08:19:47

End at: 2018-02-16 08:20:17

Below is generated by plot.py at 2018-02-16 11:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.98 Mbit/s

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

Loss rate: 0.39%

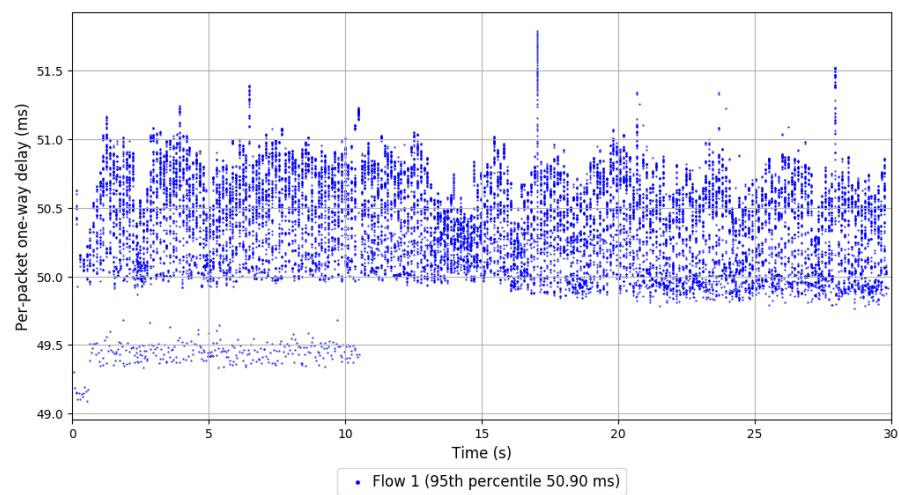
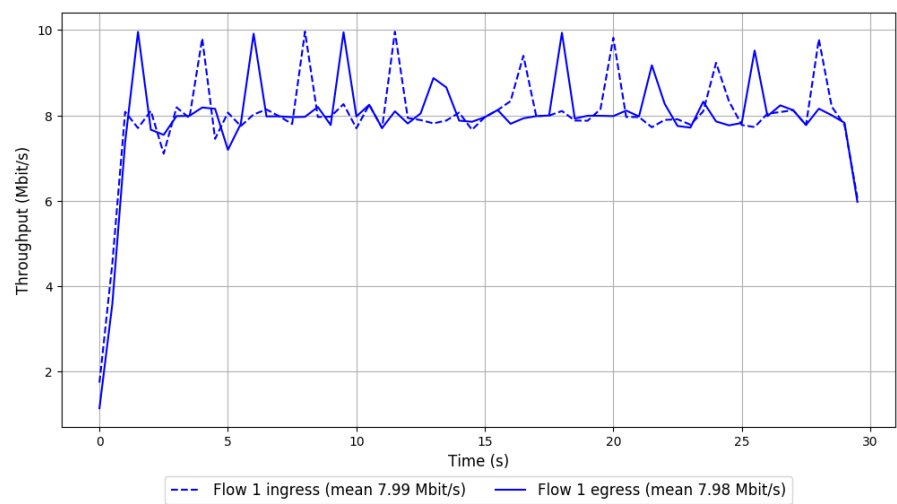
-- Flow 1:

Average throughput: 7.98 Mbit/s

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

Loss rate: 0.39%

Run 10: Report of Sprout — Data Link

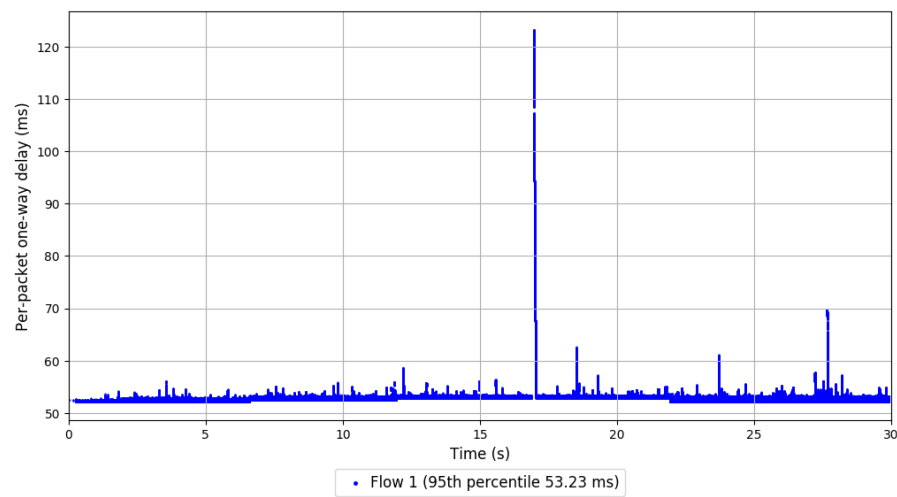
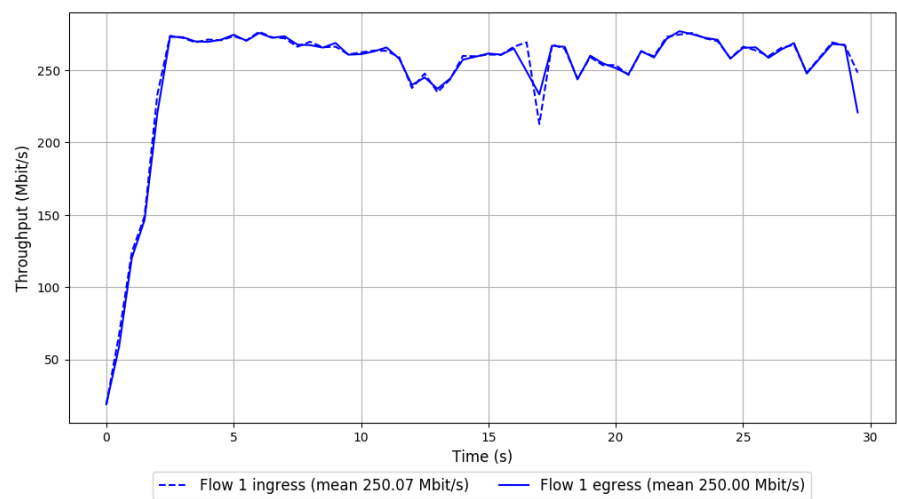


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-16 06:08:31
End at: 2018-02-16 06:09:01

# Below is generated by plot.py at 2018-02-16 11:43:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 250.00 Mbit/s
95th percentile per-packet one-way delay: 53.227 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 250.00 Mbit/s
95th percentile per-packet one-way delay: 53.227 ms
Loss rate: 0.38%
```

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

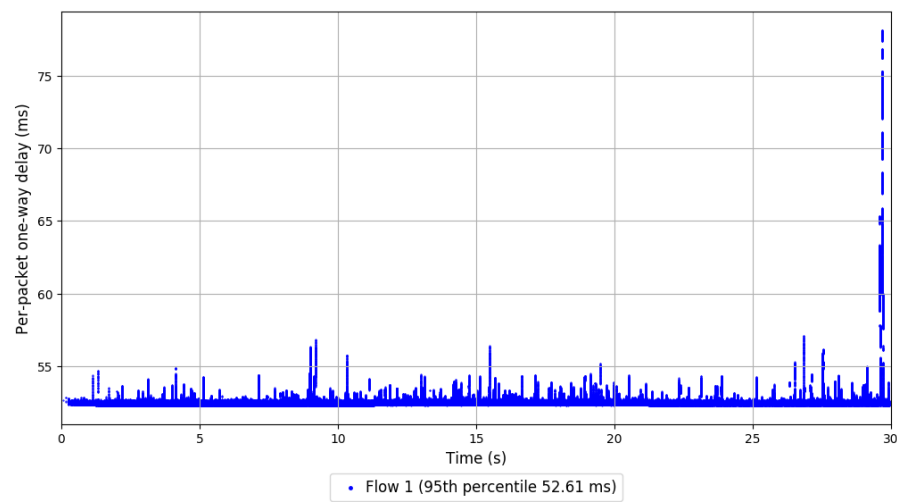
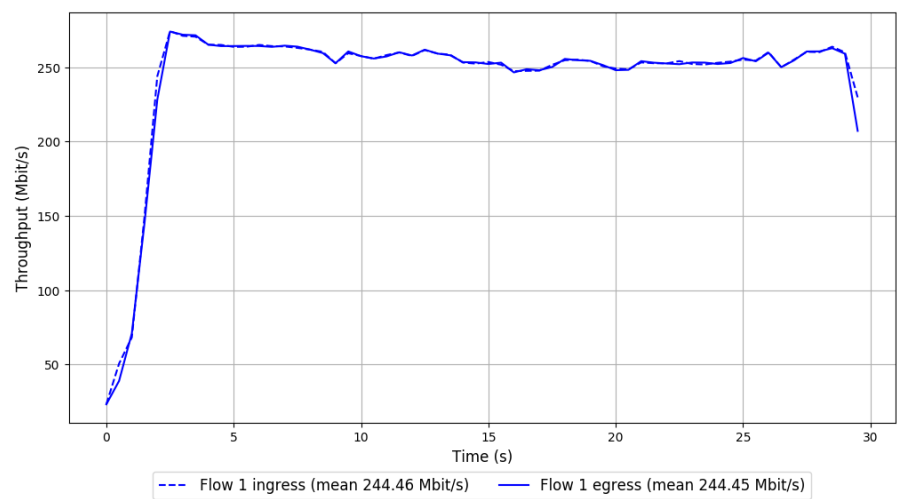


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-16 06:23:32
End at: 2018-02-16 06:24:02

# Below is generated by plot.py at 2018-02-16 11:43:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 244.45 Mbit/s
95th percentile per-packet one-way delay: 52.606 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 244.45 Mbit/s
95th percentile per-packet one-way delay: 52.606 ms
Loss rate: 0.35%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-02-16 06:38:34

End at: 2018-02-16 06:39:04

Below is generated by plot.py at 2018-02-16 11:43:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.10 Mbit/s

95th percentile per-packet one-way delay: 52.847 ms

Loss rate: 0.32%

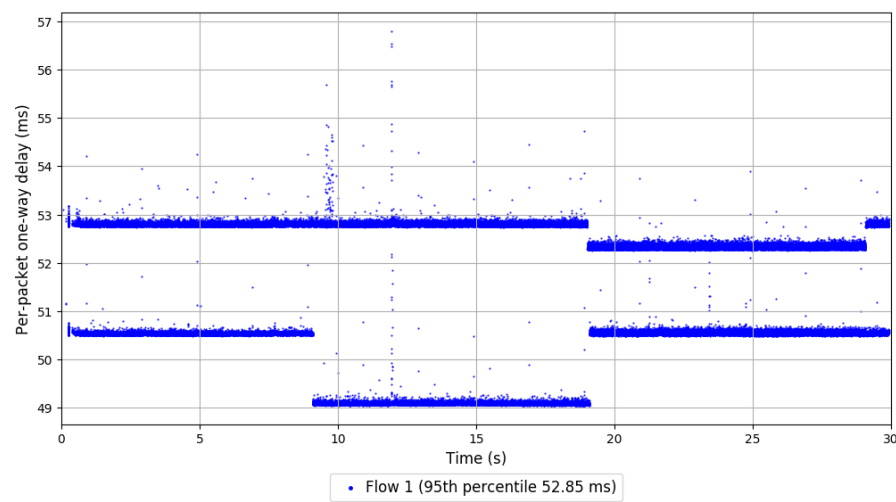
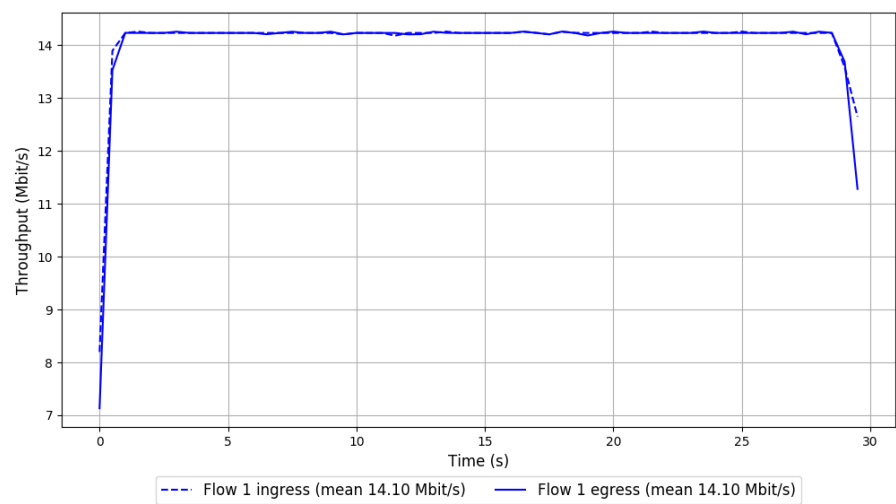
-- Flow 1:

Average throughput: 14.10 Mbit/s

95th percentile per-packet one-way delay: 52.847 ms

Loss rate: 0.32%

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

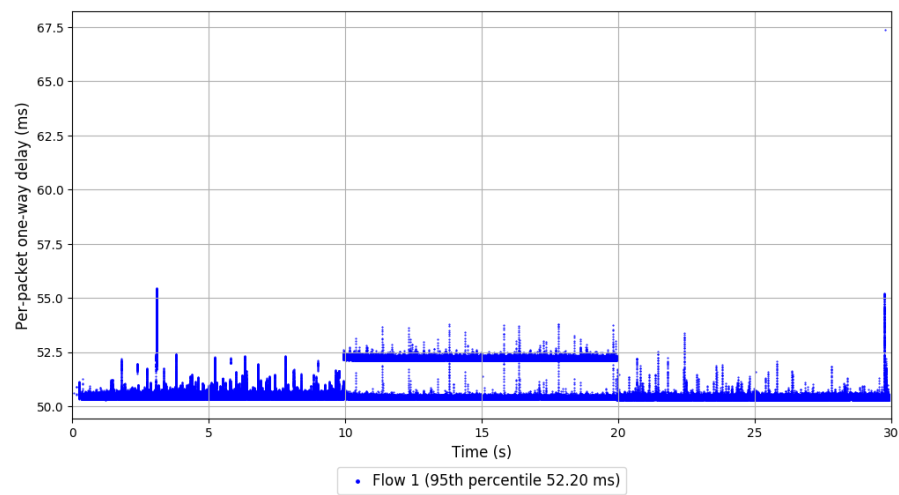
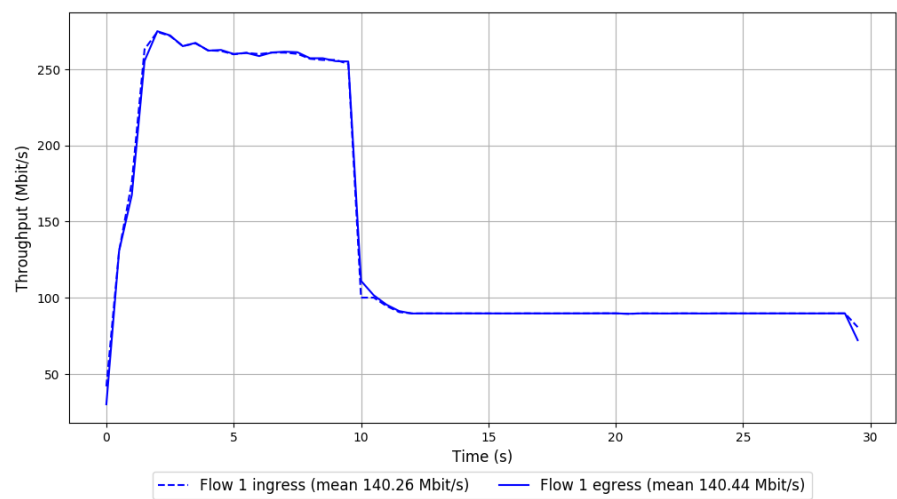


```
Run 4: Statistics of TaoVA-100x

Start at: 2018-02-16 06:53:13
End at: 2018-02-16 06:53:43

# Below is generated by plot.py at 2018-02-16 11:43:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 140.44 Mbit/s
95th percentile per-packet one-way delay: 52.195 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 140.44 Mbit/s
95th percentile per-packet one-way delay: 52.195 ms
Loss rate: 0.21%
```

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-16 07:08:01

End at: 2018-02-16 07:08:31

Below is generated by plot.py at 2018-02-16 11:43:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 234.24 Mbit/s

95th percentile per-packet one-way delay: 50.630 ms

Loss rate: 0.29%

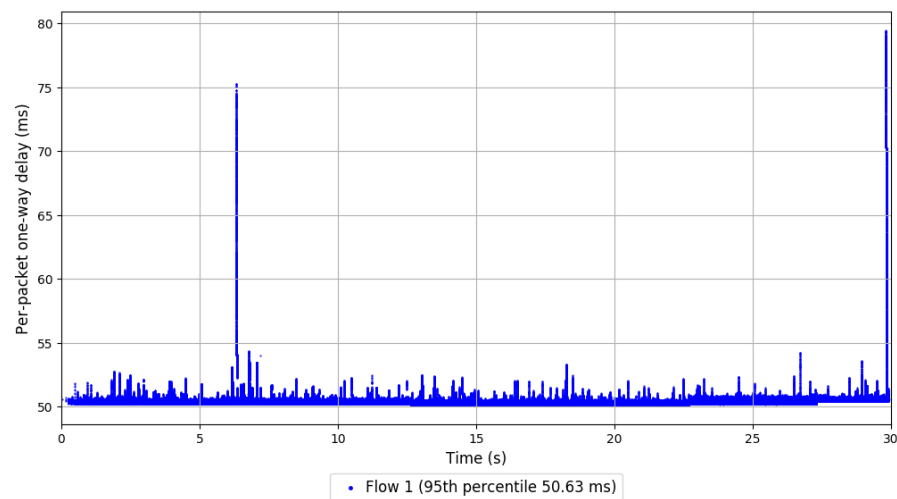
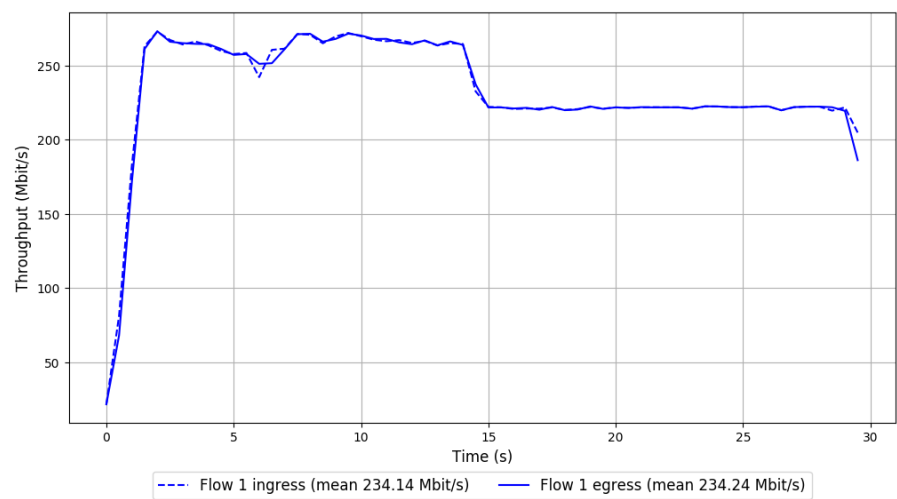
-- Flow 1:

Average throughput: 234.24 Mbit/s

95th percentile per-packet one-way delay: 50.630 ms

Loss rate: 0.29%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-16 07:22:58

End at: 2018-02-16 07:23:28

Below is generated by plot.py at 2018-02-16 11:43:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.65 Mbit/s

95th percentile per-packet one-way delay: 50.512 ms

Loss rate: 0.30%

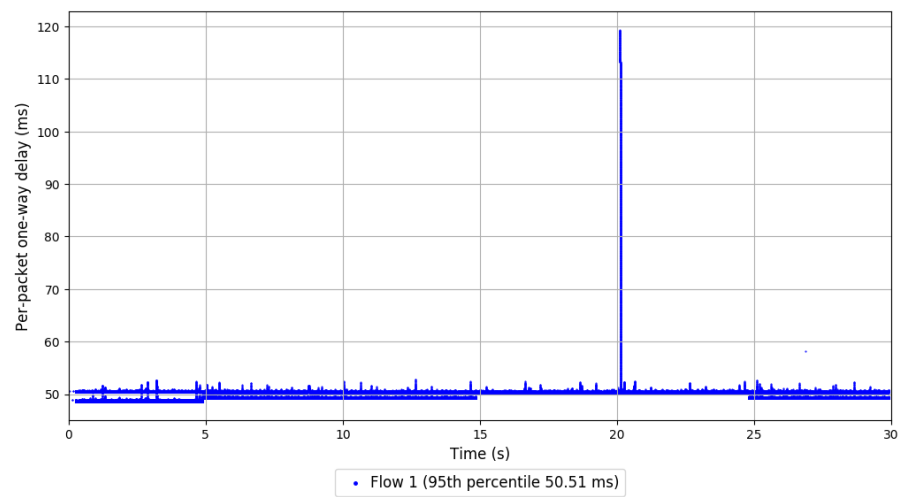
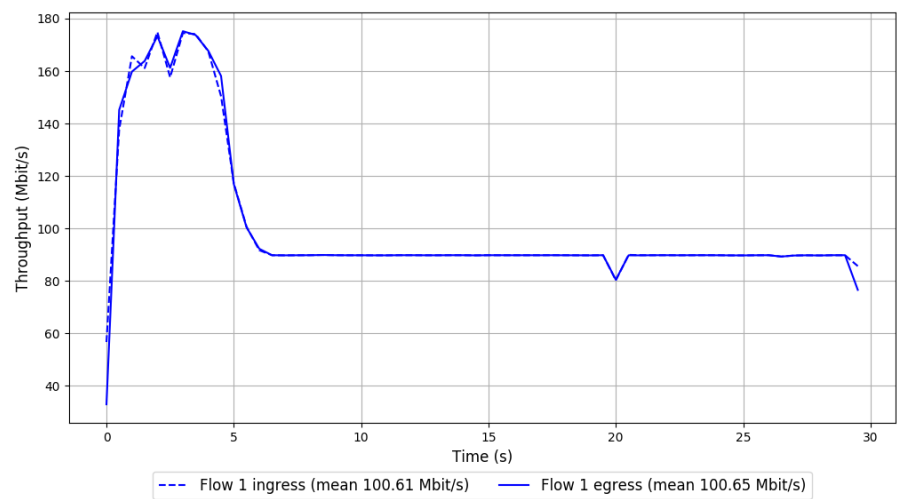
-- Flow 1:

Average throughput: 100.65 Mbit/s

95th percentile per-packet one-way delay: 50.512 ms

Loss rate: 0.30%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-16 07:37:42

End at: 2018-02-16 07:38:12

Below is generated by plot.py at 2018-02-16 11:43:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 121.56 Mbit/s

95th percentile per-packet one-way delay: 51.137 ms

Loss rate: 0.73%

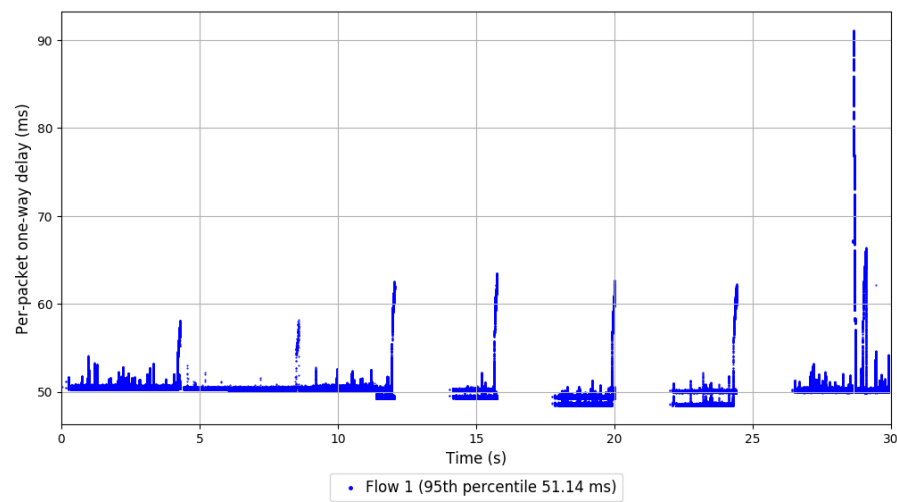
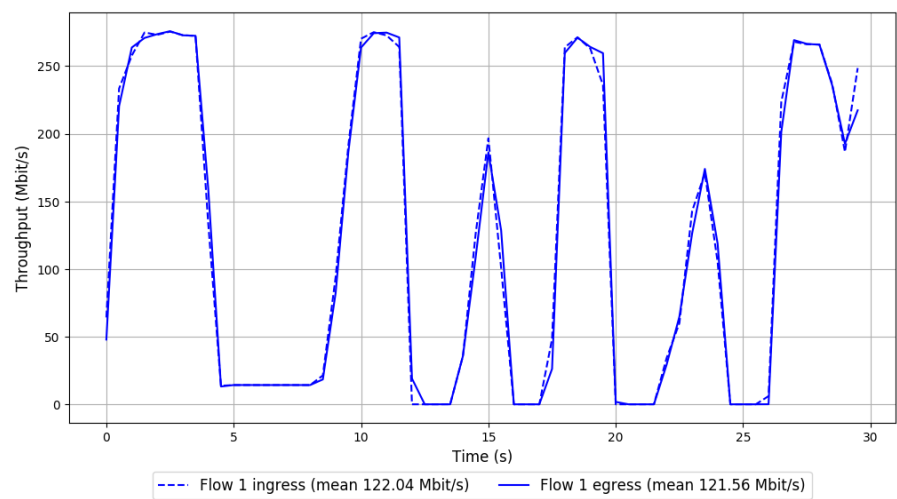
-- Flow 1:

Average throughput: 121.56 Mbit/s

95th percentile per-packet one-way delay: 51.137 ms

Loss rate: 0.73%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-16 07:52:38

End at: 2018-02-16 07:53:08

Below is generated by plot.py at 2018-02-16 11:46:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 239.23 Mbit/s

95th percentile per-packet one-way delay: 50.283 ms

Loss rate: 0.31%

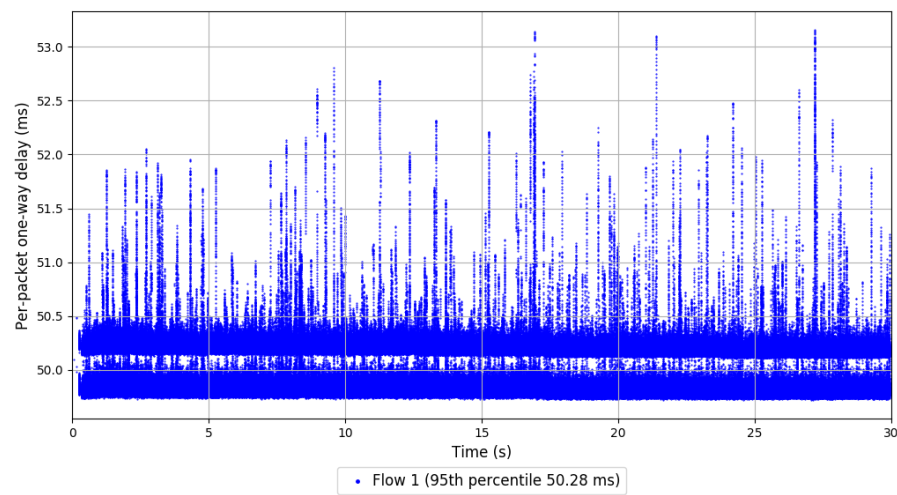
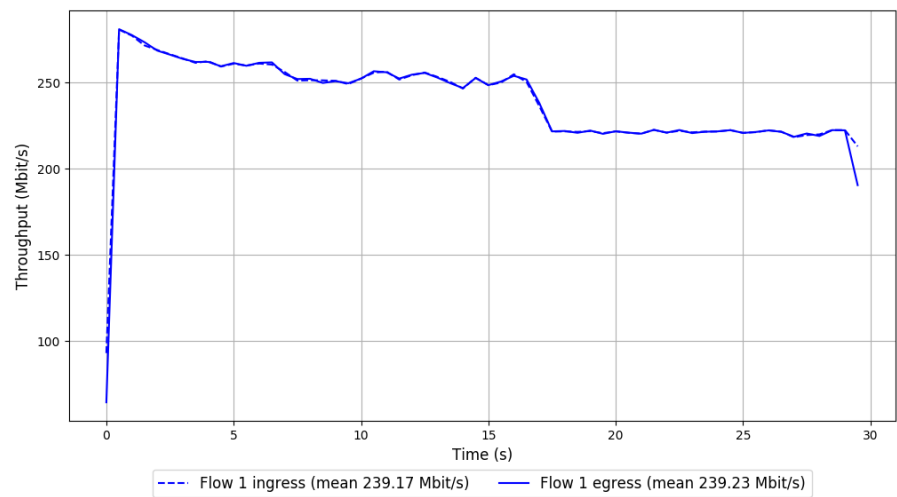
-- Flow 1:

Average throughput: 239.23 Mbit/s

95th percentile per-packet one-way delay: 50.283 ms

Loss rate: 0.31%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-16 08:07:24

End at: 2018-02-16 08:07:54

Below is generated by plot.py at 2018-02-16 11:46:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.47 Mbit/s

95th percentile per-packet one-way delay: 49.906 ms

Loss rate: 0.27%

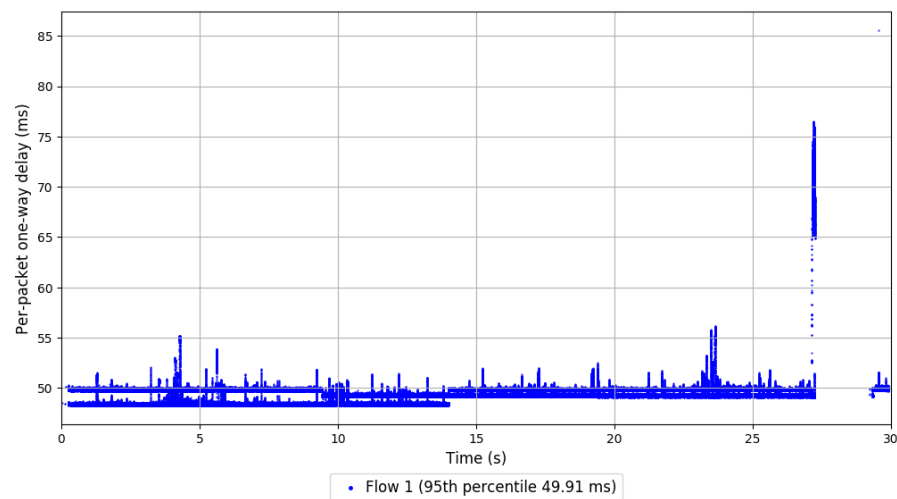
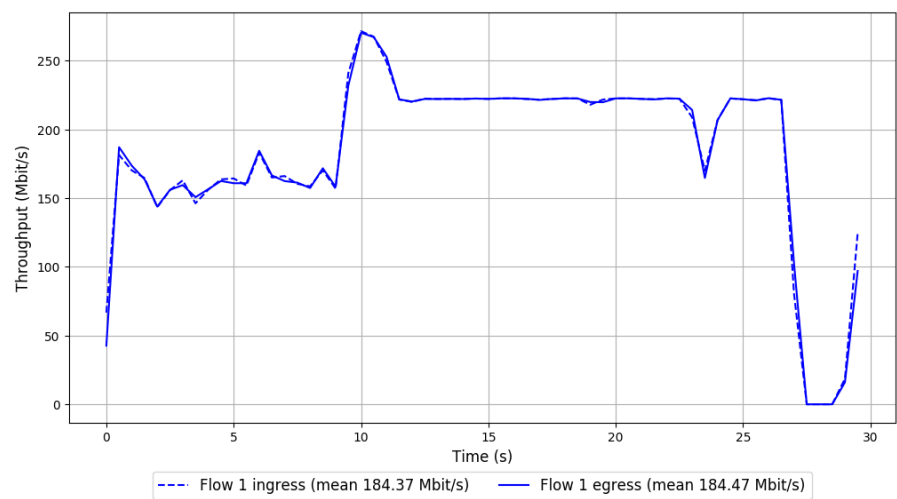
-- Flow 1:

Average throughput: 184.47 Mbit/s

95th percentile per-packet one-way delay: 49.906 ms

Loss rate: 0.27%

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

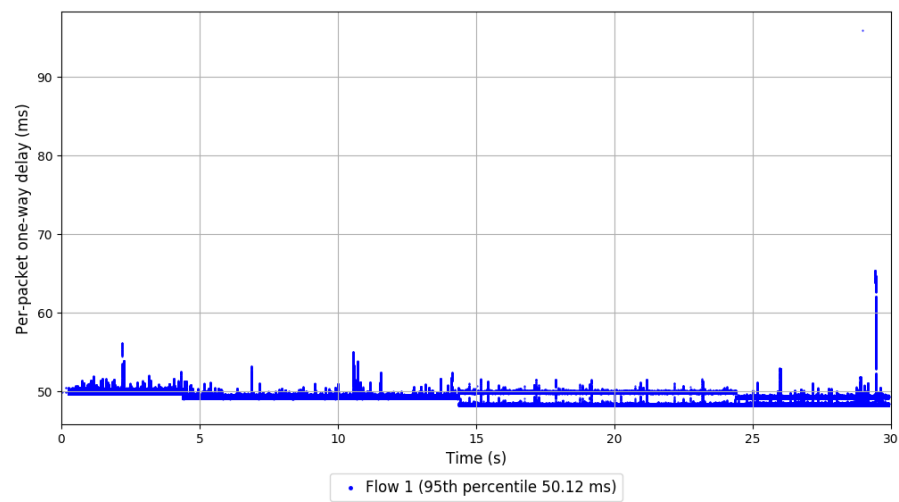
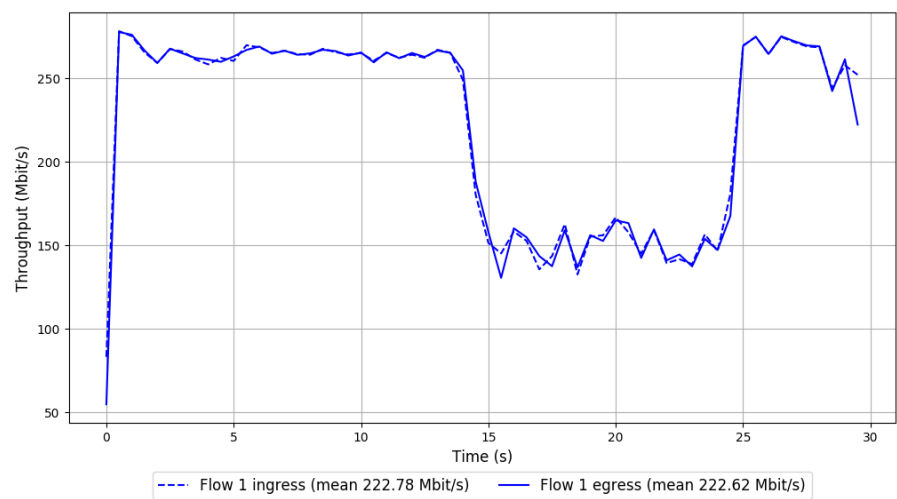


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-16 08:22:19
End at: 2018-02-16 08:22:49

# Below is generated by plot.py at 2018-02-16 11:47:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.62 Mbit/s
95th percentile per-packet one-way delay: 50.121 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 222.62 Mbit/s
95th percentile per-packet one-way delay: 50.121 ms
Loss rate: 0.40%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-16 06:14:32

End at: 2018-02-16 06:15:02

Below is generated by plot.py at 2018-02-16 11:47:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.13 Mbit/s

95th percentile per-packet one-way delay: 60.006 ms

Loss rate: 0.37%

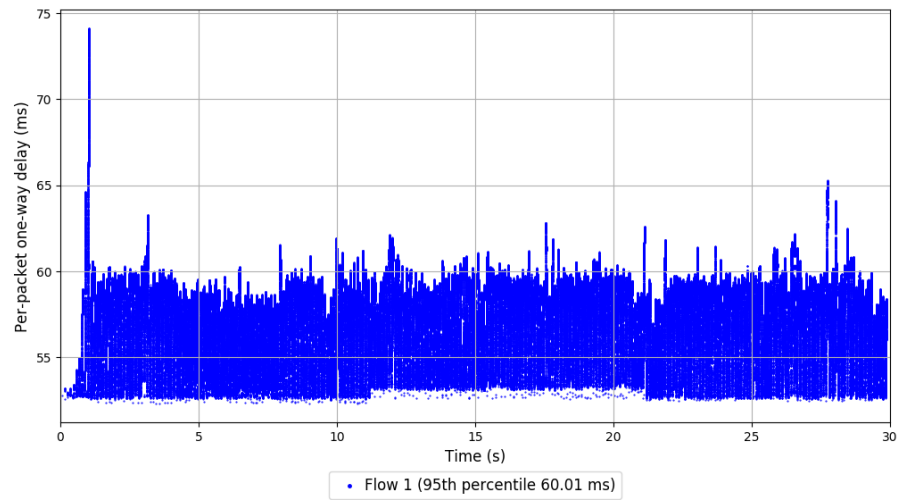
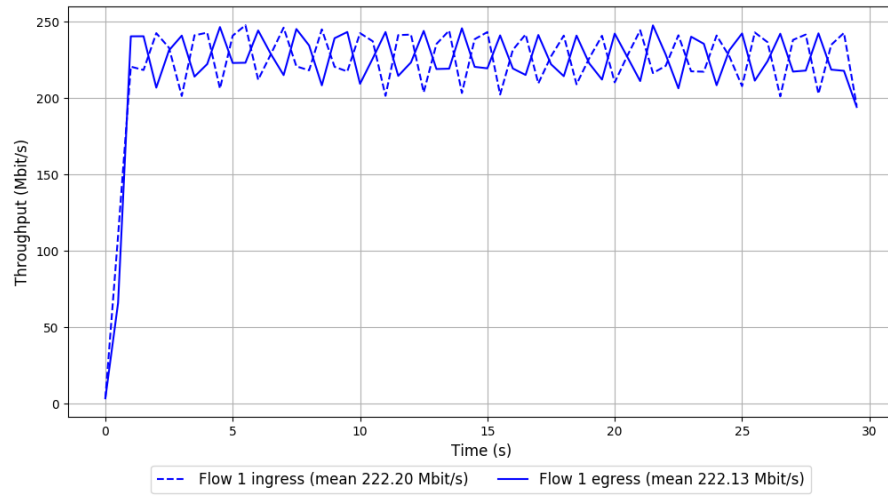
-- Flow 1:

Average throughput: 222.13 Mbit/s

95th percentile per-packet one-way delay: 60.006 ms

Loss rate: 0.37%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-16 06:29:32

End at: 2018-02-16 06:30:02

Below is generated by plot.py at 2018-02-16 11:47:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.21 Mbit/s

95th percentile per-packet one-way delay: 60.269 ms

Loss rate: 0.36%

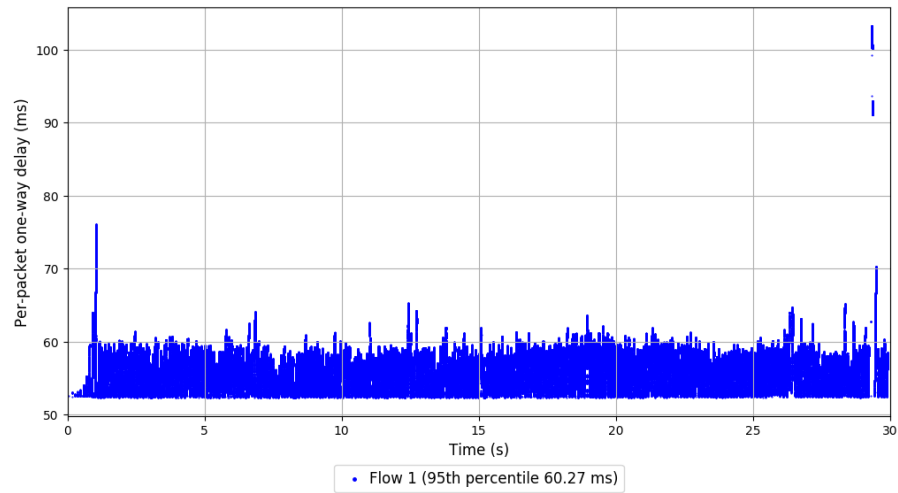
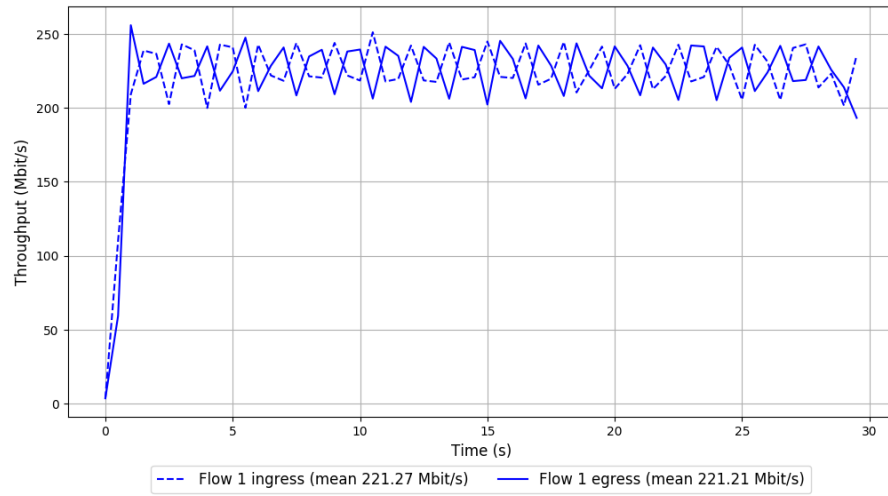
-- Flow 1:

Average throughput: 221.21 Mbit/s

95th percentile per-packet one-way delay: 60.269 ms

Loss rate: 0.36%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-16 06:44:16

End at: 2018-02-16 06:44:46

Below is generated by plot.py at 2018-02-16 11:47:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.95 Mbit/s

95th percentile per-packet one-way delay: 59.533 ms

Loss rate: 0.33%

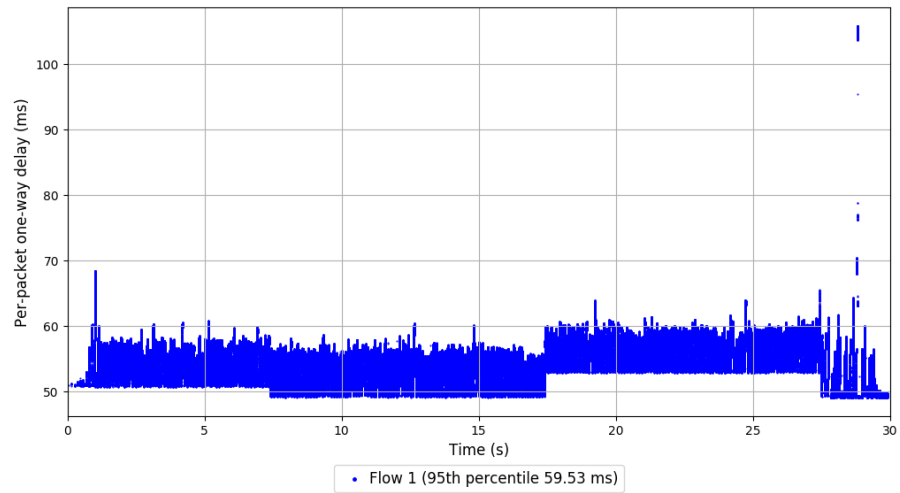
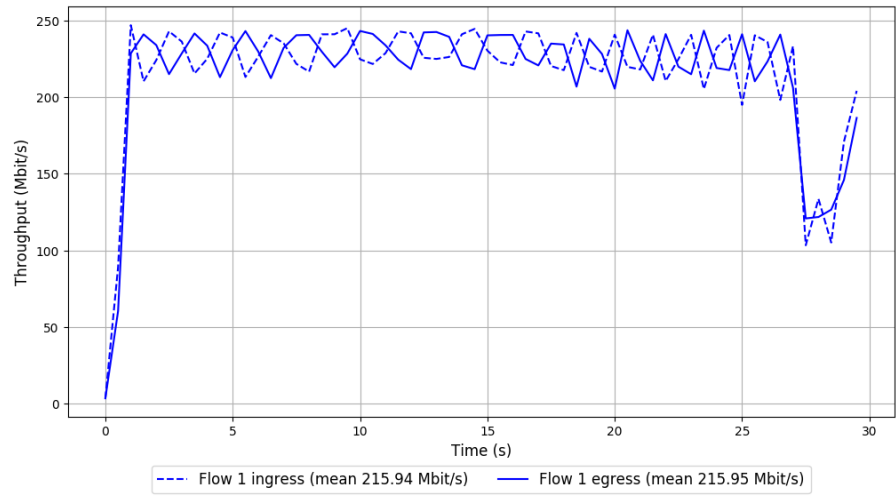
-- Flow 1:

Average throughput: 215.95 Mbit/s

95th percentile per-packet one-way delay: 59.533 ms

Loss rate: 0.33%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-16 06:59:07

End at: 2018-02-16 06:59:37

Below is generated by plot.py at 2018-02-16 11:47:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.71 Mbit/s

95th percentile per-packet one-way delay: 50.928 ms

Loss rate: 0.31%

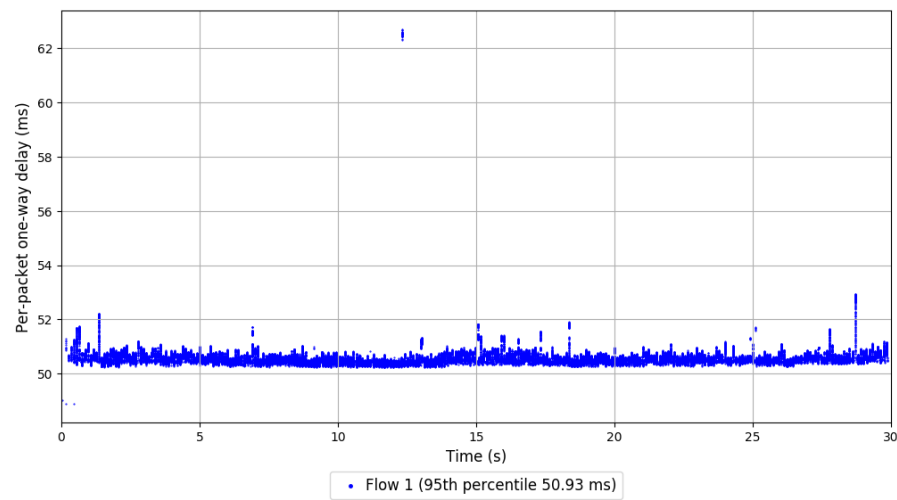
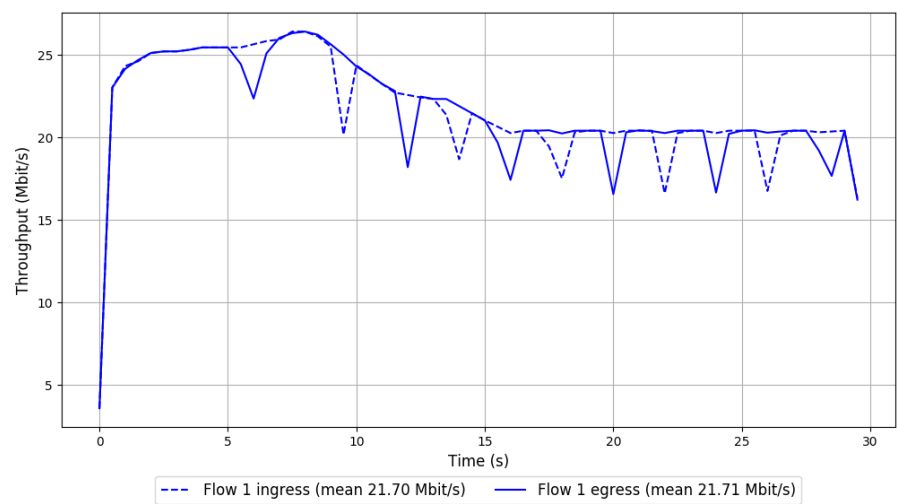
-- Flow 1:

Average throughput: 21.71 Mbit/s

95th percentile per-packet one-way delay: 50.928 ms

Loss rate: 0.31%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-16 07:14:03

End at: 2018-02-16 07:14:33

Below is generated by plot.py at 2018-02-16 11:47:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.46 Mbit/s

95th percentile per-packet one-way delay: 58.557 ms

Loss rate: 0.08%

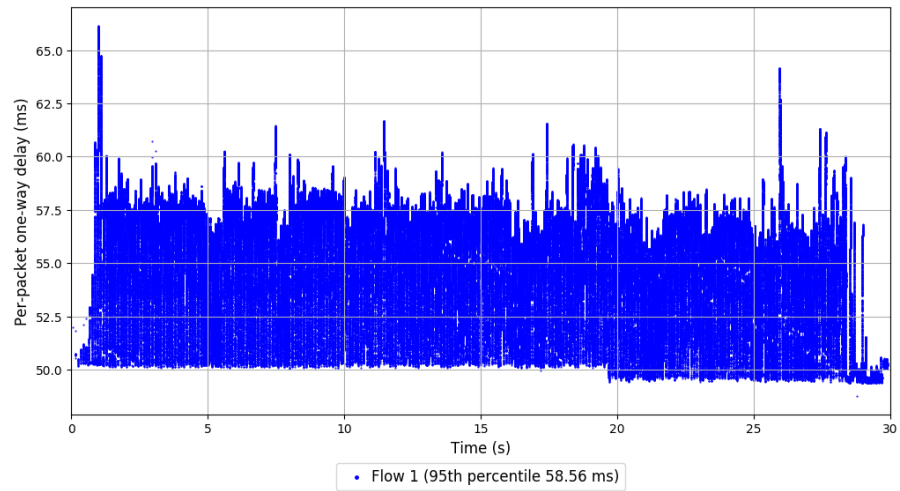
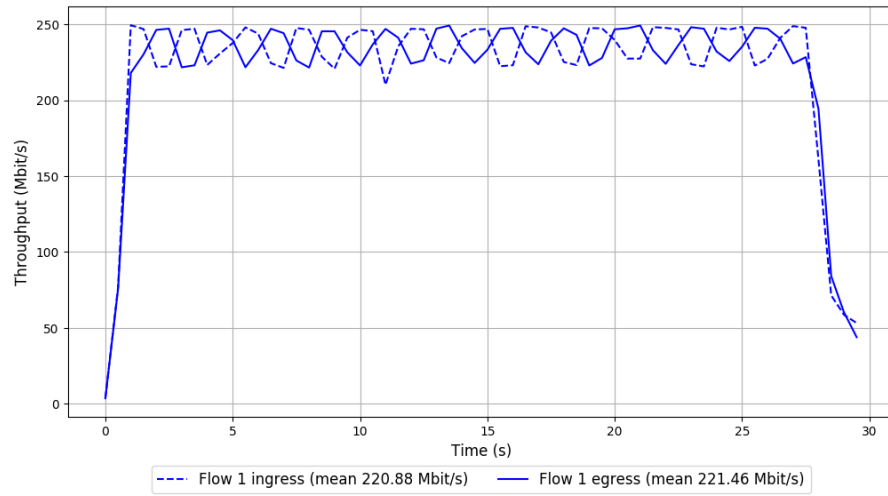
-- Flow 1:

Average throughput: 221.46 Mbit/s

95th percentile per-packet one-way delay: 58.557 ms

Loss rate: 0.08%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-16 07:28:50

End at: 2018-02-16 07:29:20

Below is generated by plot.py at 2018-02-16 11:47:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.88 Mbit/s

95th percentile per-packet one-way delay: 50.962 ms

Loss rate: 0.27%

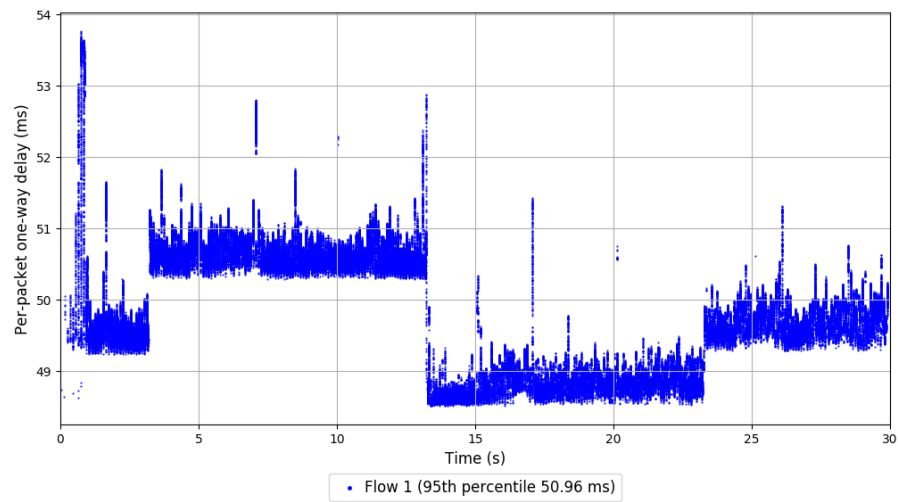
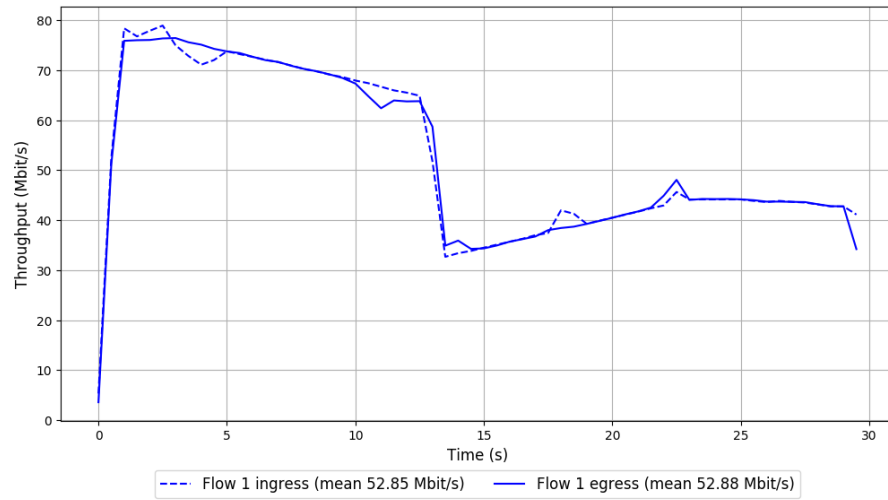
-- Flow 1:

Average throughput: 52.88 Mbit/s

95th percentile per-packet one-way delay: 50.962 ms

Loss rate: 0.27%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-16 07:43:34

End at: 2018-02-16 07:44:04

Below is generated by plot.py at 2018-02-16 11:48:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.93 Mbit/s

95th percentile per-packet one-way delay: 58.598 ms

Loss rate: 0.39%

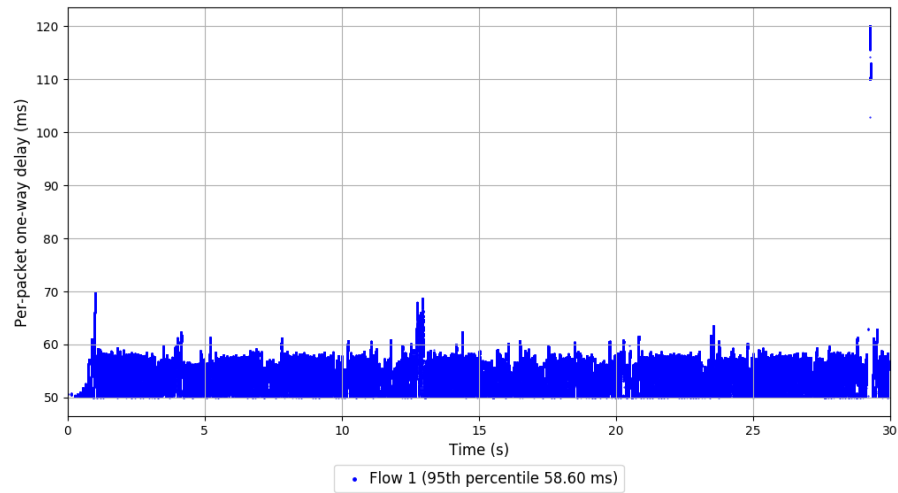
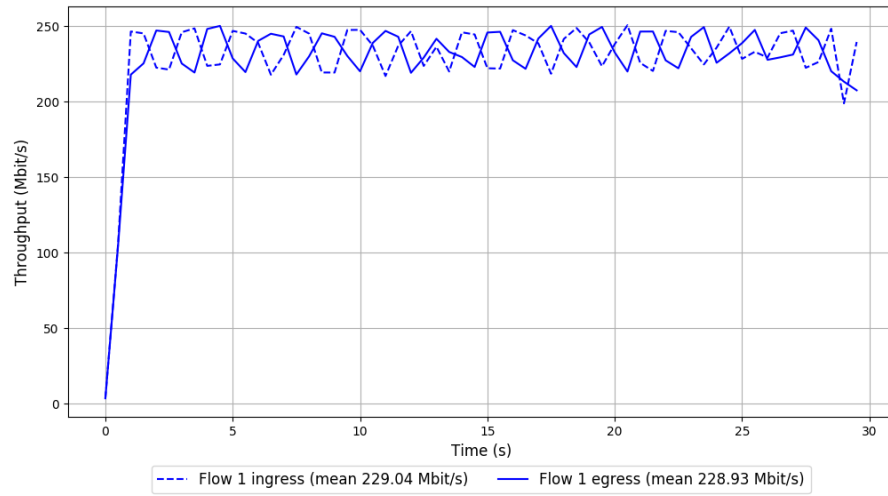
-- Flow 1:

Average throughput: 228.93 Mbit/s

95th percentile per-packet one-way delay: 58.598 ms

Loss rate: 0.39%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-16 07:58:34

End at: 2018-02-16 07:59:04

Below is generated by plot.py at 2018-02-16 11:48:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.89 Mbit/s

95th percentile per-packet one-way delay: 51.028 ms

Loss rate: 0.44%

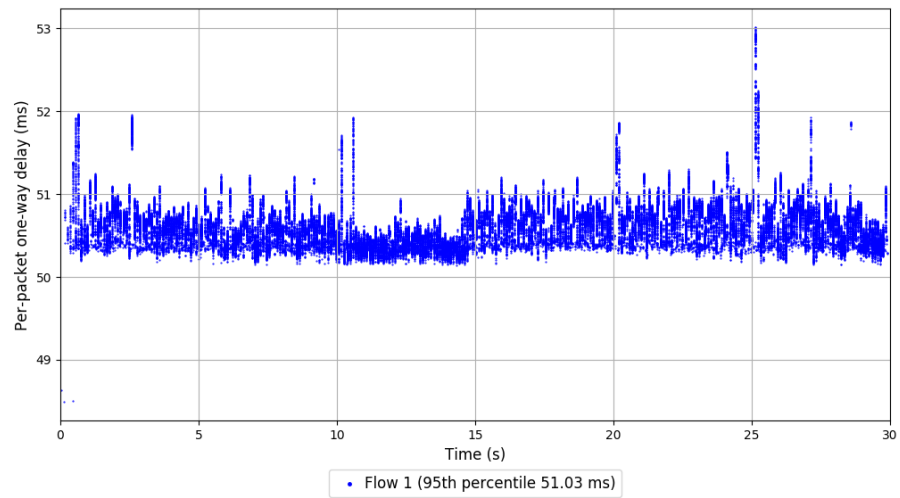
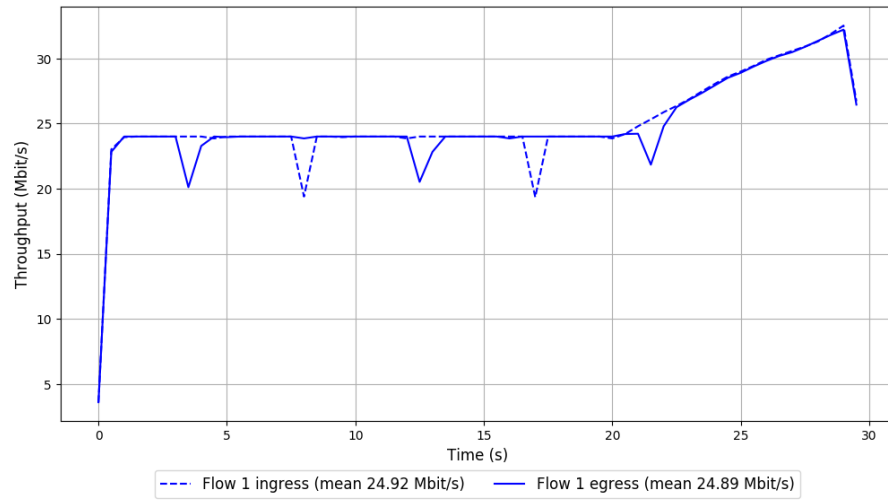
-- Flow 1:

Average throughput: 24.89 Mbit/s

95th percentile per-packet one-way delay: 51.028 ms

Loss rate: 0.44%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-16 08:13:20

End at: 2018-02-16 08:13:50

Below is generated by plot.py at 2018-02-16 11:49:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.77 Mbit/s

95th percentile per-packet one-way delay: 50.621 ms

Loss rate: 0.32%

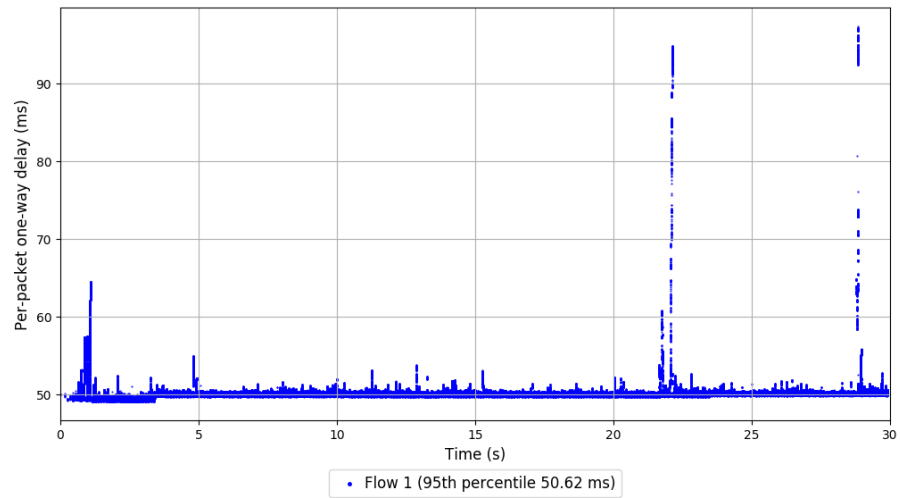
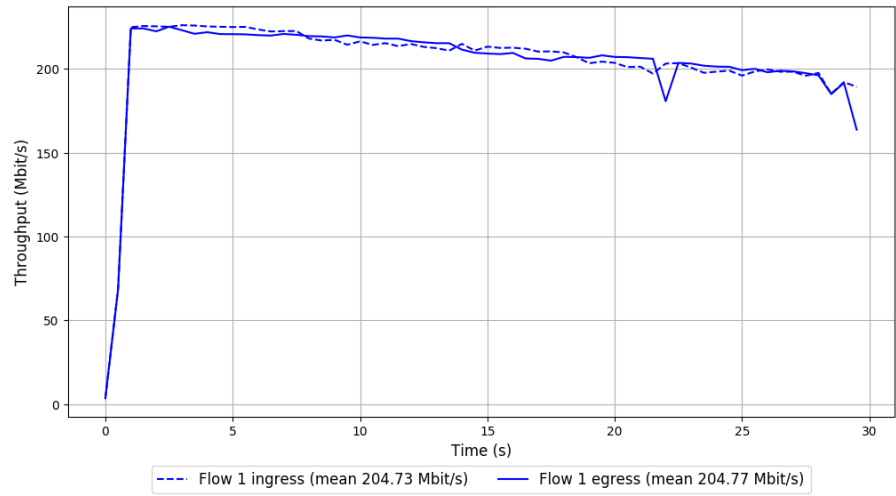
-- Flow 1:

Average throughput: 204.77 Mbit/s

95th percentile per-packet one-way delay: 50.621 ms

Loss rate: 0.32%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-16 08:28:19

End at: 2018-02-16 08:28:49

Below is generated by plot.py at 2018-02-16 11:49:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.64 Mbit/s

95th percentile per-packet one-way delay: 55.539 ms

Loss rate: 0.30%

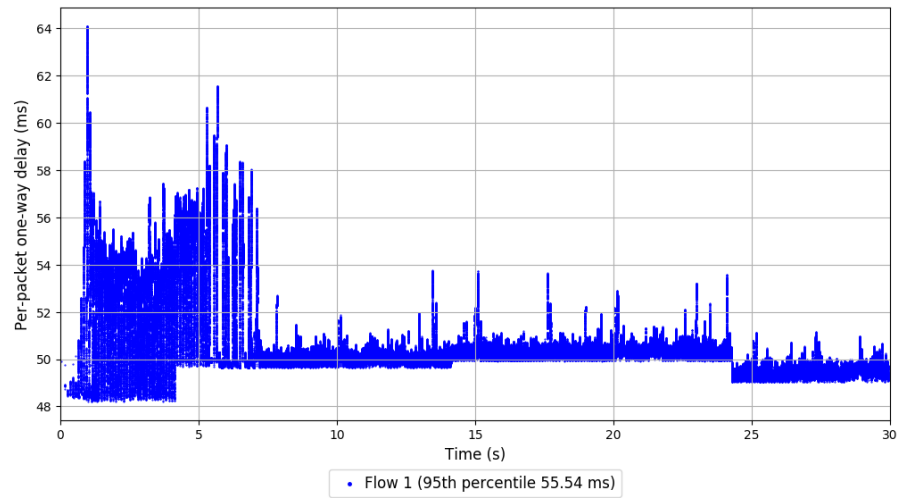
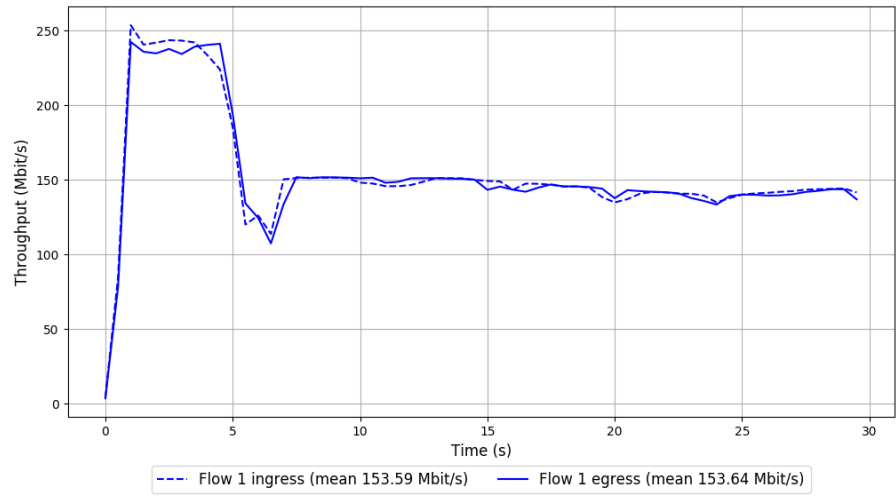
-- Flow 1:

Average throughput: 153.64 Mbit/s

95th percentile per-packet one-way delay: 55.539 ms

Loss rate: 0.30%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-02-16 06:03:36

End at: 2018-02-16 06:04:06

Below is generated by plot.py at 2018-02-16 11:51:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 269.59 Mbit/s

95th percentile per-packet one-way delay: 143.531 ms

Loss rate: 1.46%

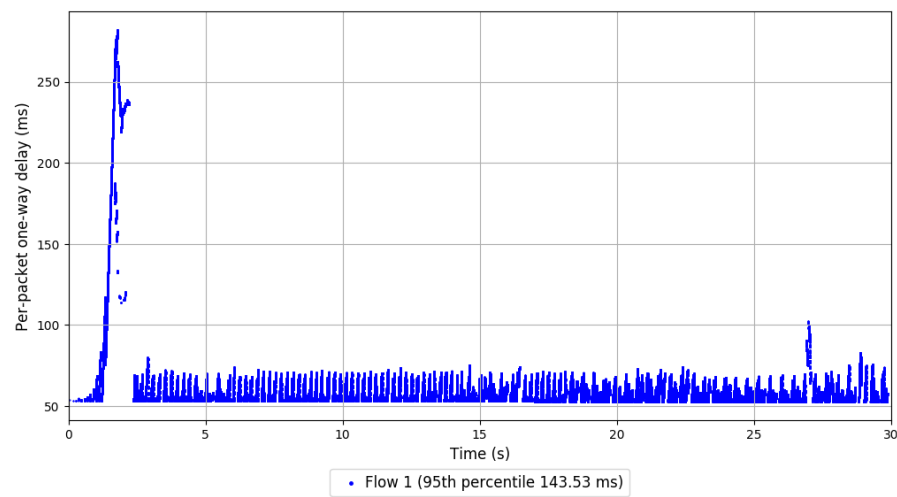
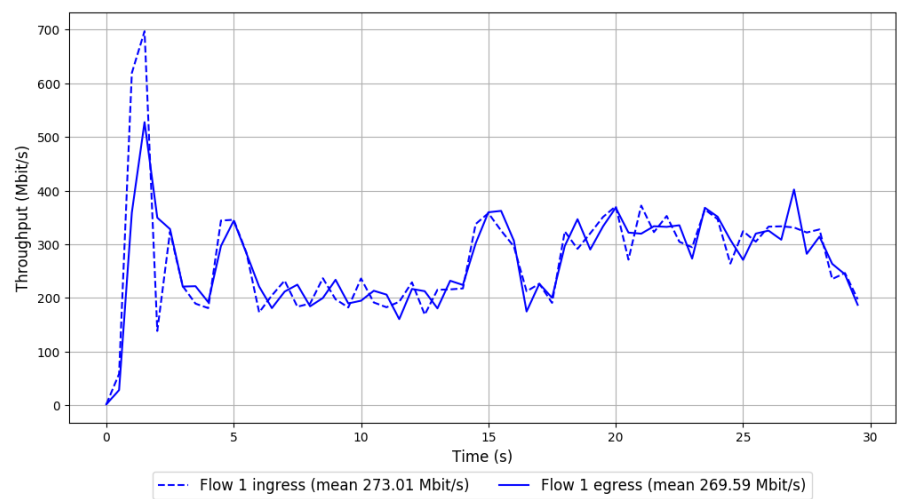
-- Flow 1:

Average throughput: 269.59 Mbit/s

95th percentile per-packet one-way delay: 143.531 ms

Loss rate: 1.46%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-16 06:18:34

End at: 2018-02-16 06:19:04

Below is generated by plot.py at 2018-02-16 11:51:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 272.04 Mbit/s

95th percentile per-packet one-way delay: 97.890 ms

Loss rate: 0.63%

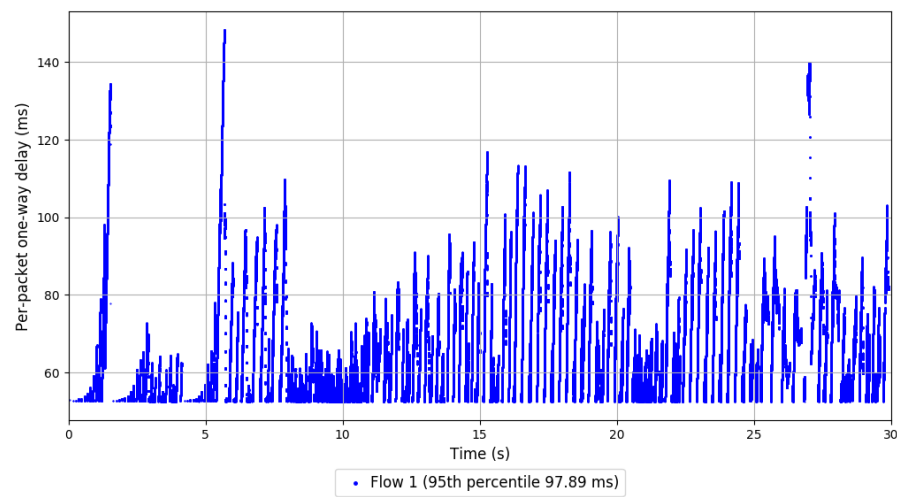
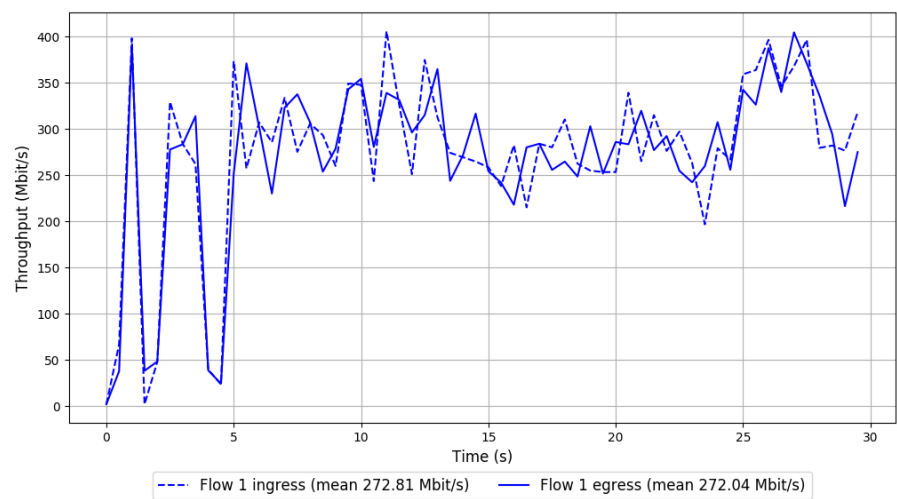
-- Flow 1:

Average throughput: 272.04 Mbit/s

95th percentile per-packet one-way delay: 97.890 ms

Loss rate: 0.63%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-16 06:33:34

End at: 2018-02-16 06:34:04

Below is generated by plot.py at 2018-02-16 11:52:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 306.58 Mbit/s

95th percentile per-packet one-way delay: 65.424 ms

Loss rate: 0.10%

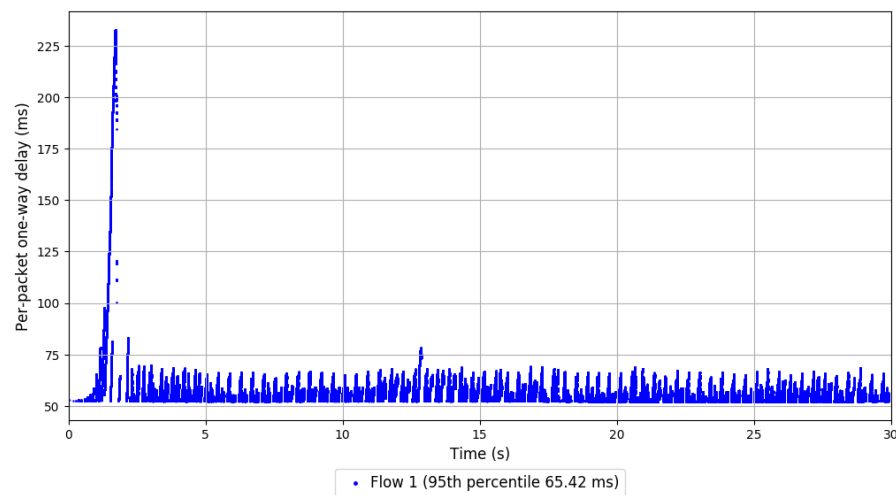
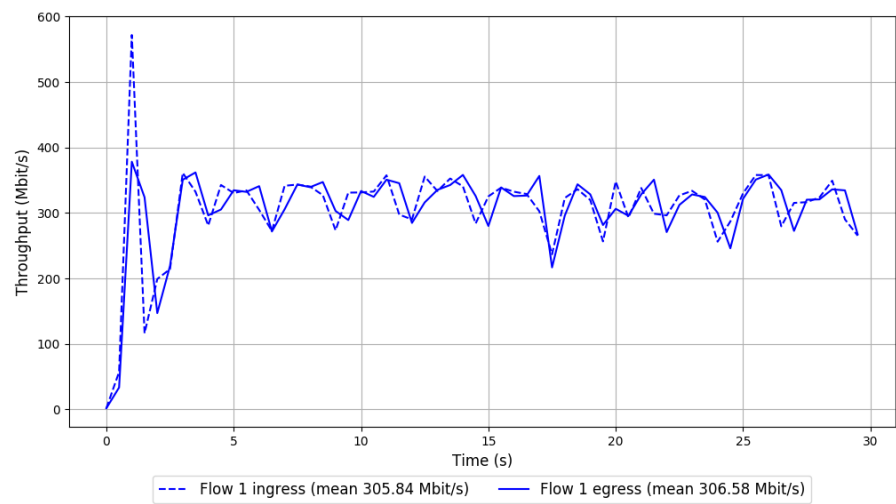
-- Flow 1:

Average throughput: 306.58 Mbit/s

95th percentile per-packet one-way delay: 65.424 ms

Loss rate: 0.10%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-16 06:48:22

End at: 2018-02-16 06:48:52

Below is generated by plot.py at 2018-02-16 11:52:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.05 Mbit/s

95th percentile per-packet one-way delay: 96.242 ms

Loss rate: 2.04%

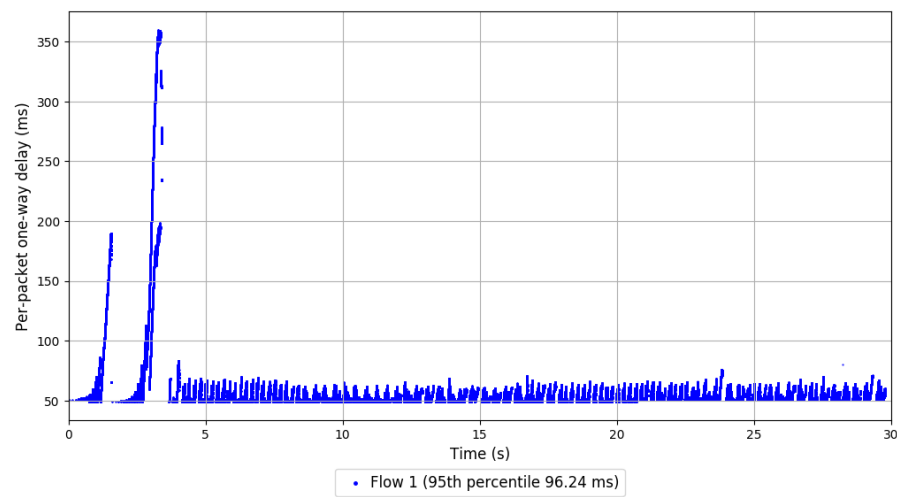
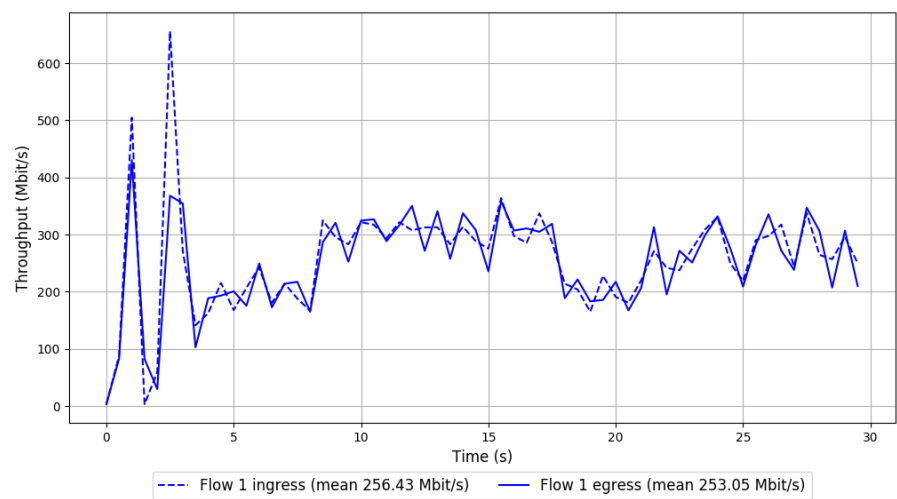
-- Flow 1:

Average throughput: 253.05 Mbit/s

95th percentile per-packet one-way delay: 96.242 ms

Loss rate: 2.04%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-16 07:03:00

End at: 2018-02-16 07:03:30

Below is generated by plot.py at 2018-02-16 11:53:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 318.00 Mbit/s

95th percentile per-packet one-way delay: 64.773 ms

Loss rate: 0.78%

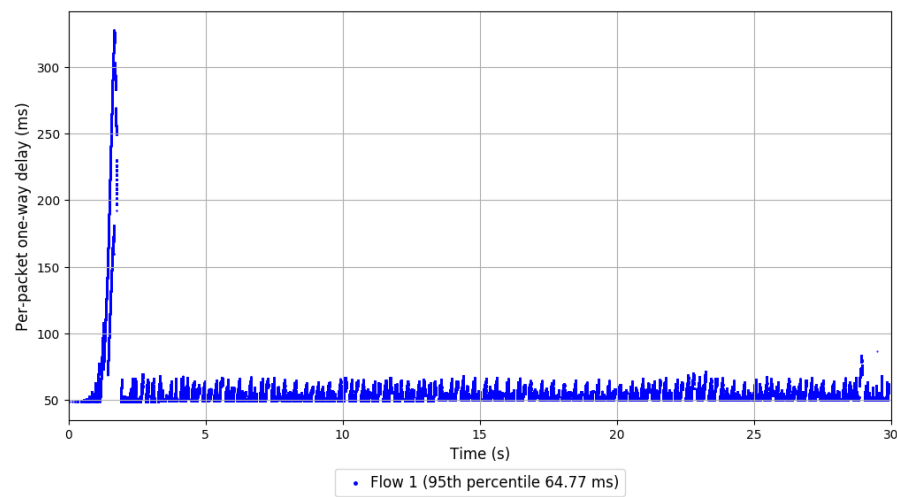
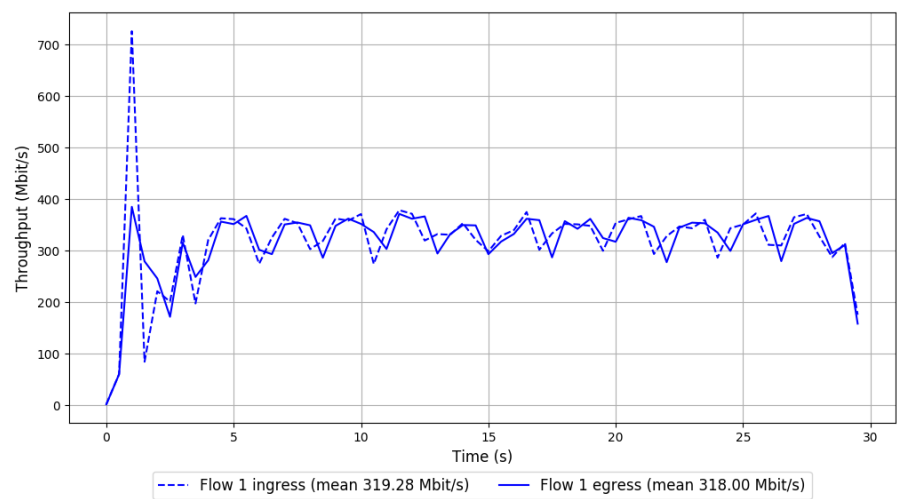
-- Flow 1:

Average throughput: 318.00 Mbit/s

95th percentile per-packet one-way delay: 64.773 ms

Loss rate: 0.78%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-16 07:18:03

End at: 2018-02-16 07:18:33

Below is generated by plot.py at 2018-02-16 11:53:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 263.02 Mbit/s

95th percentile per-packet one-way delay: 75.250 ms

Loss rate: 1.69%

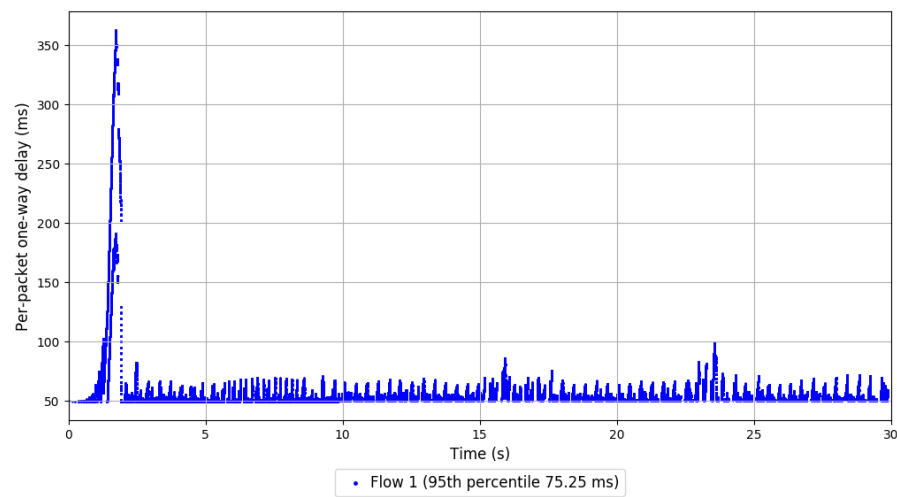
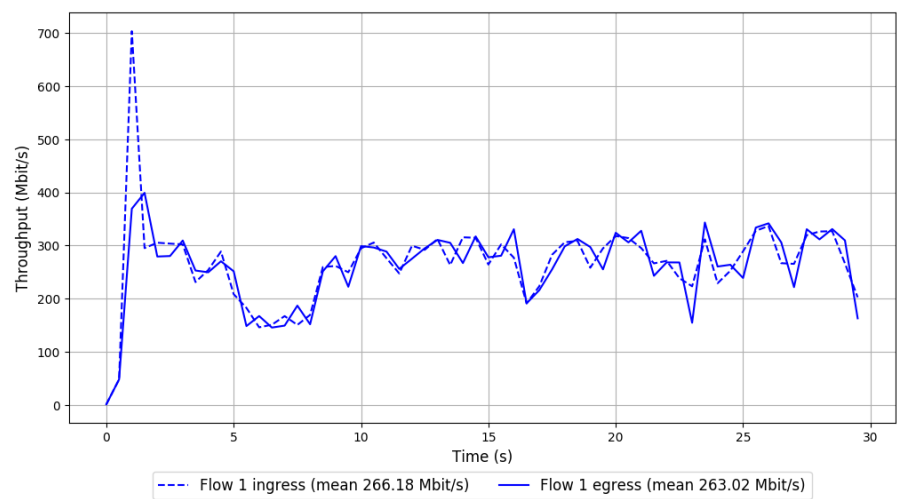
-- Flow 1:

Average throughput: 263.02 Mbit/s

95th percentile per-packet one-way delay: 75.250 ms

Loss rate: 1.69%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-16 07:32:44

End at: 2018-02-16 07:33:14

Below is generated by plot.py at 2018-02-16 11:54:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 287.97 Mbit/s

95th percentile per-packet one-way delay: 84.228 ms

Loss rate: 0.69%

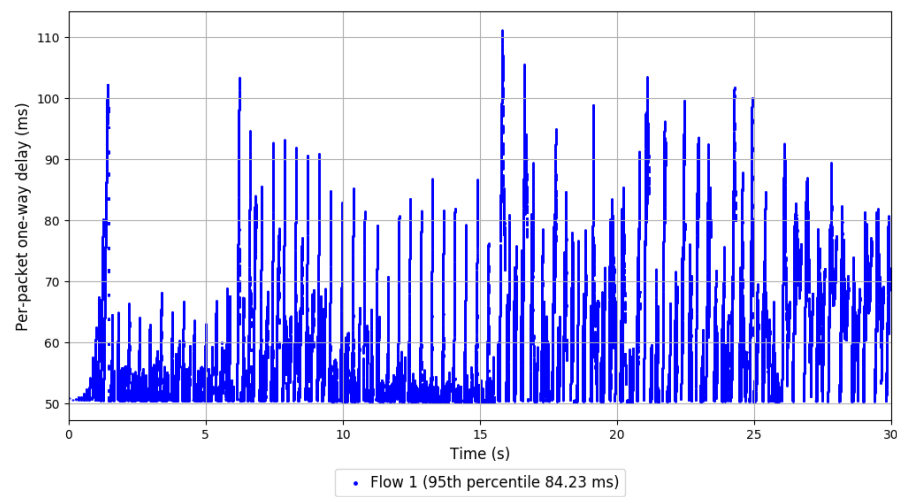
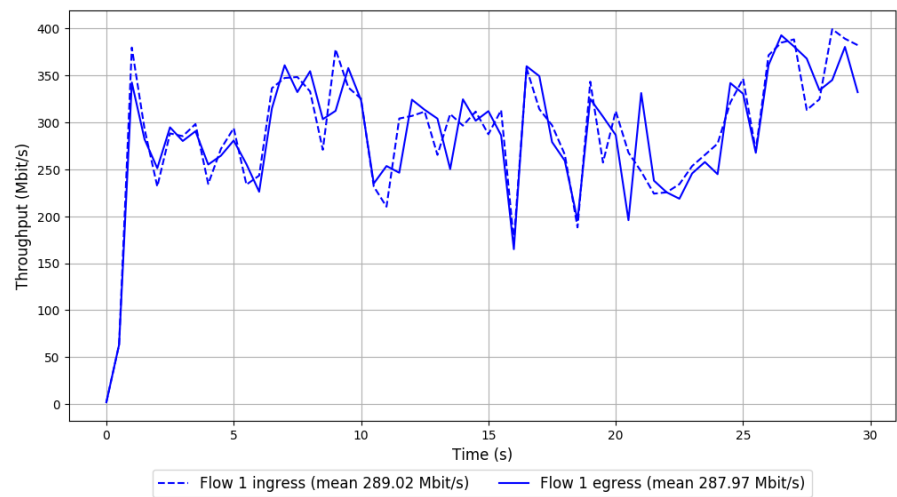
-- Flow 1:

Average throughput: 287.97 Mbit/s

95th percentile per-packet one-way delay: 84.228 ms

Loss rate: 0.69%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-16 07:47:42

End at: 2018-02-16 07:48:12

Below is generated by plot.py at 2018-02-16 11:54:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 266.64 Mbit/s

95th percentile per-packet one-way delay: 199.373 ms

Loss rate: 0.93%

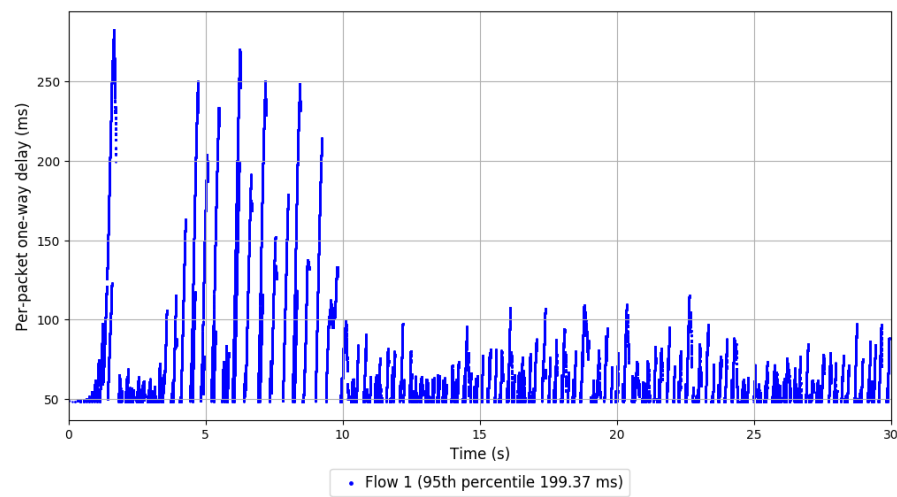
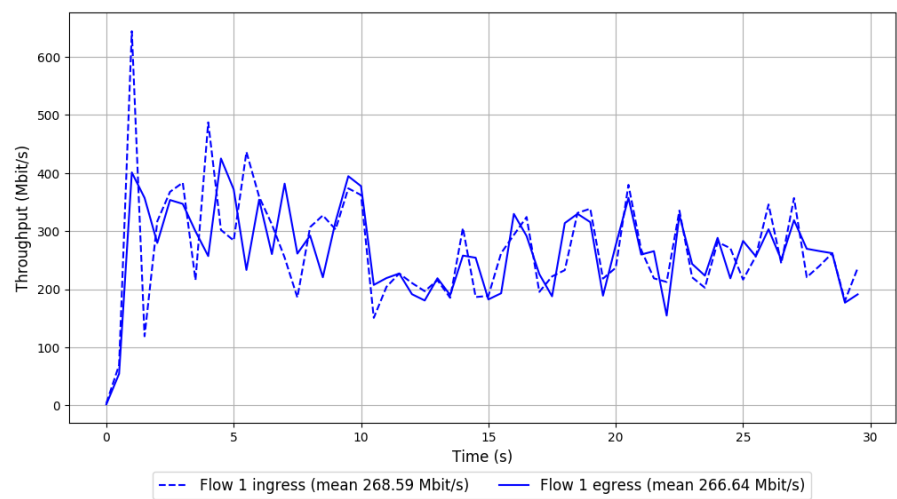
-- Flow 1:

Average throughput: 266.64 Mbit/s

95th percentile per-packet one-way delay: 199.373 ms

Loss rate: 0.93%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-16 08:02:27

End at: 2018-02-16 08:02:57

Below is generated by plot.py at 2018-02-16 11:57:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 292.38 Mbit/s

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

Loss rate: 0.19%

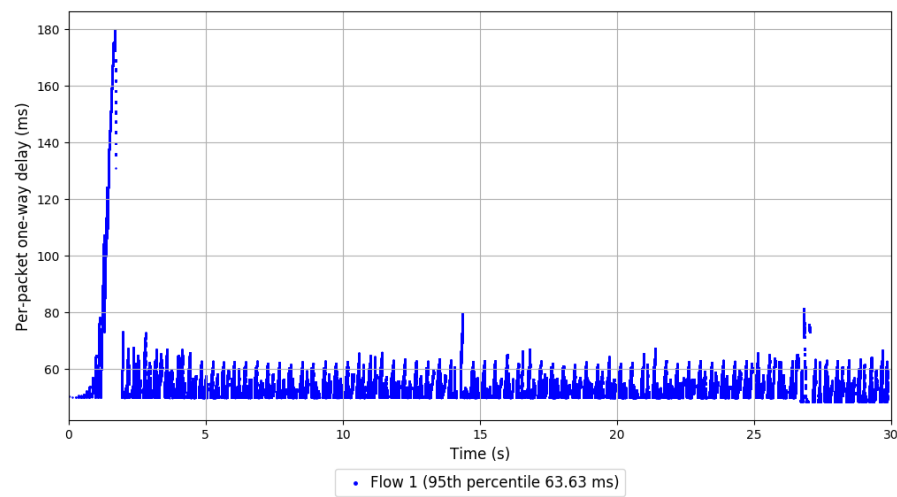
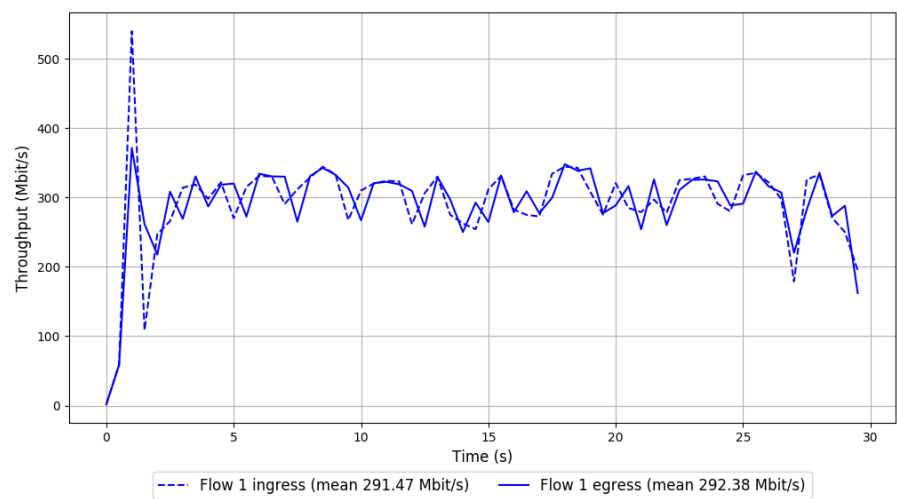
-- Flow 1:

Average throughput: 292.38 Mbit/s

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

Loss rate: 0.19%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-16 08:17:20

End at: 2018-02-16 08:17:50

Below is generated by plot.py at 2018-02-16 11:57:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 306.52 Mbit/s

95th percentile per-packet one-way delay: 72.528 ms

Loss rate: 0.31%

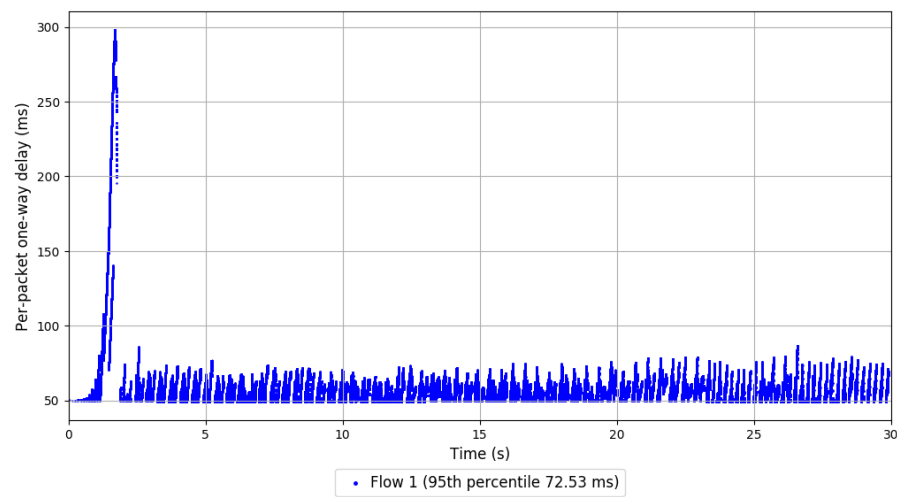
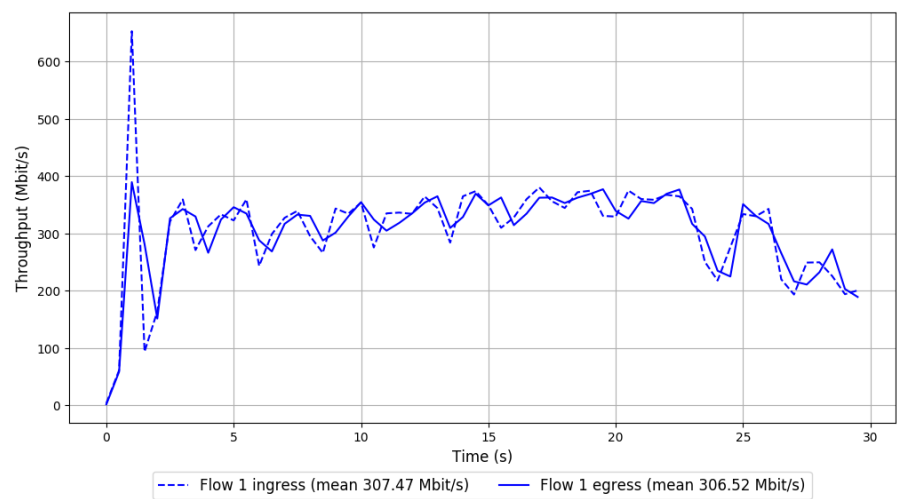
-- Flow 1:

Average throughput: 306.52 Mbit/s

95th percentile per-packet one-way delay: 72.528 ms

Loss rate: 0.31%

Run 10: Report of Verus — Data Link

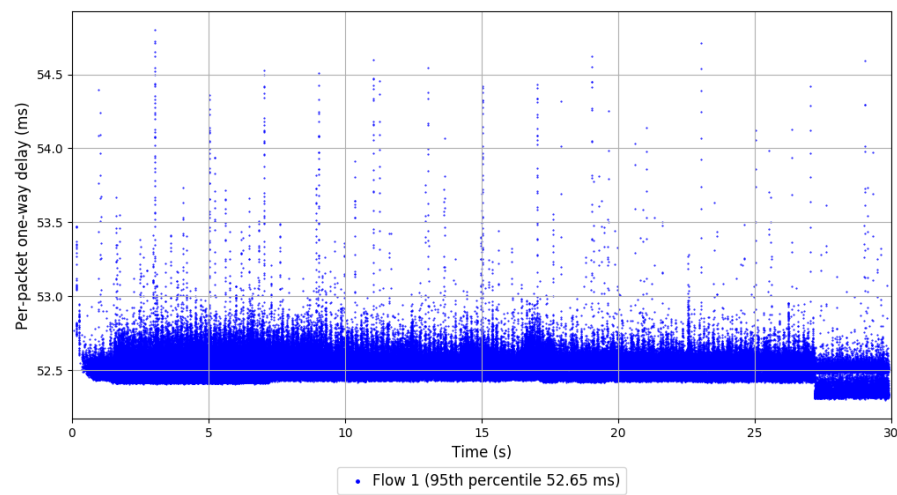
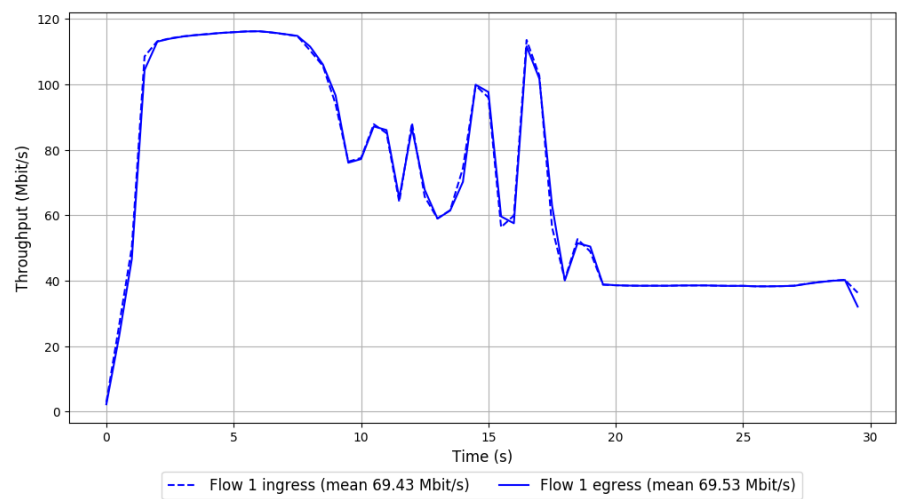


```
Run 1: Statistics of Copa

Start at: 2018-02-16 06:05:16
End at: 2018-02-16 06:05:46

# Below is generated by plot.py at 2018-02-16 11:57:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.53 Mbit/s
95th percentile per-packet one-way delay: 52.651 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 69.53 Mbit/s
95th percentile per-packet one-way delay: 52.651 ms
Loss rate: 0.20%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-16 06:20:14

End at: 2018-02-16 06:20:44

Below is generated by plot.py at 2018-02-16 11:57:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.88 Mbit/s

95th percentile per-packet one-way delay: 53.013 ms

Loss rate: 0.34%

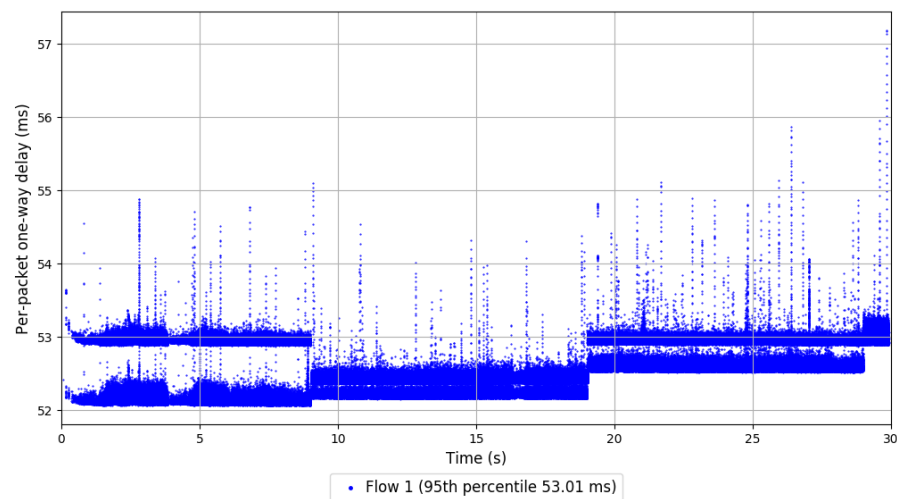
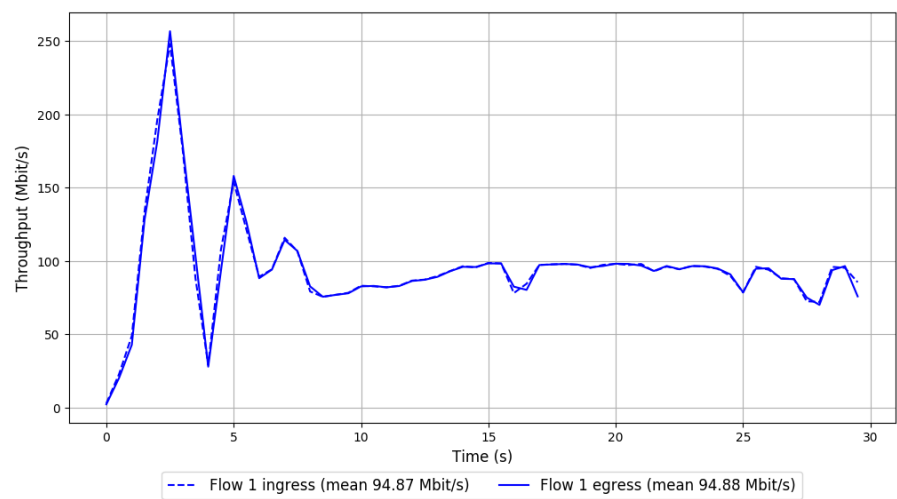
-- Flow 1:

Average throughput: 94.88 Mbit/s

95th percentile per-packet one-way delay: 53.013 ms

Loss rate: 0.34%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-16 06:35:17

End at: 2018-02-16 06:35:47

Below is generated by plot.py at 2018-02-16 11:57:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.64 Mbit/s

95th percentile per-packet one-way delay: 52.554 ms

Loss rate: 0.34%

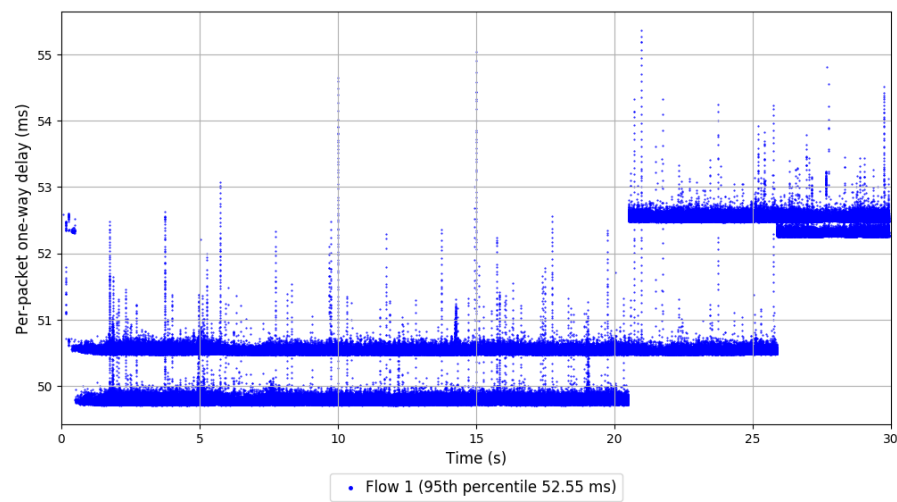
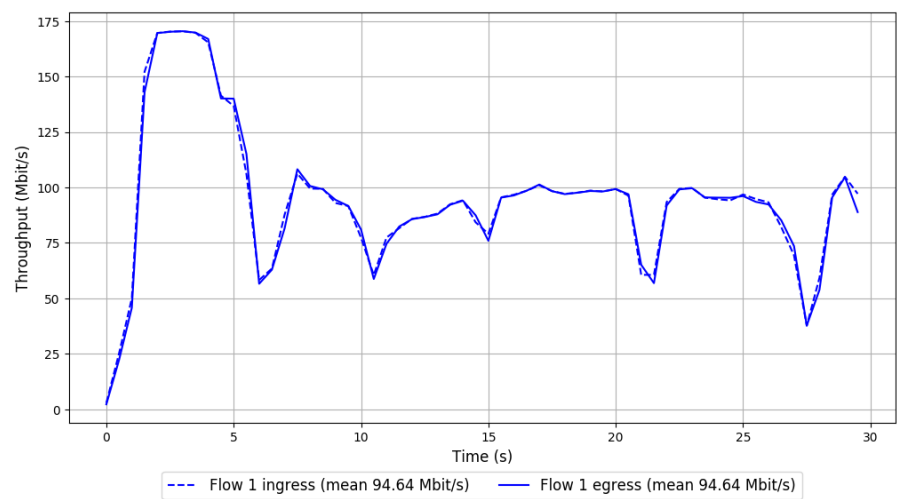
-- Flow 1:

Average throughput: 94.64 Mbit/s

95th percentile per-packet one-way delay: 52.554 ms

Loss rate: 0.34%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-16 06:50:02

End at: 2018-02-16 06:50:32

Below is generated by plot.py at 2018-02-16 11:57:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.23 Mbit/s

95th percentile per-packet one-way delay: 52.366 ms

Loss rate: 0.11%

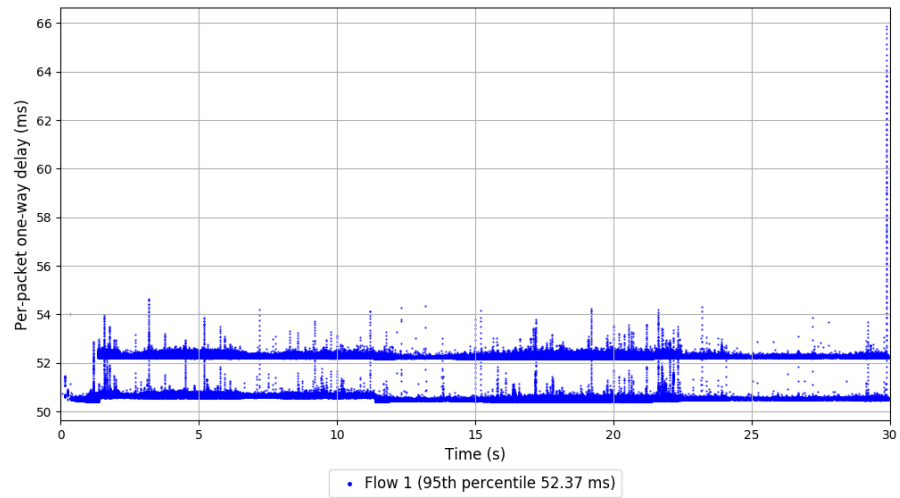
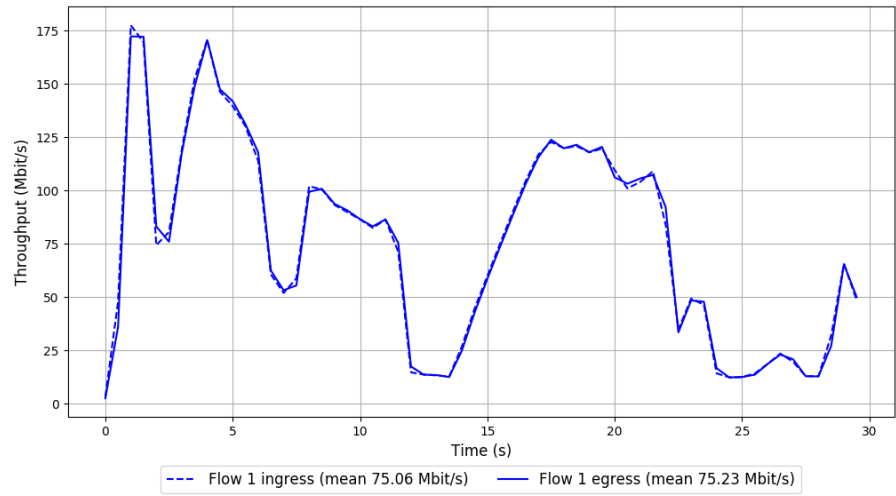
-- Flow 1:

Average throughput: 75.23 Mbit/s

95th percentile per-packet one-way delay: 52.366 ms

Loss rate: 0.11%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-16 07:04:43

End at: 2018-02-16 07:05:13

Below is generated by plot.py at 2018-02-16 11:57:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.88 Mbit/s

95th percentile per-packet one-way delay: 51.805 ms

Loss rate: 0.39%

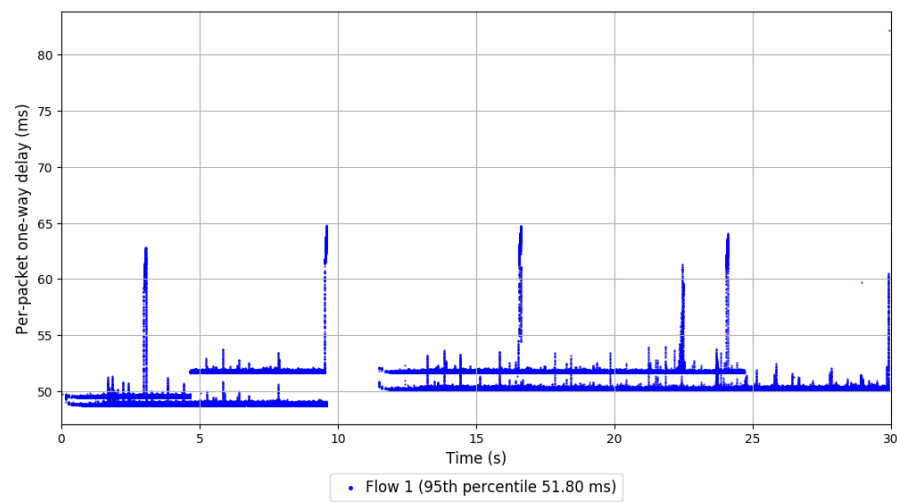
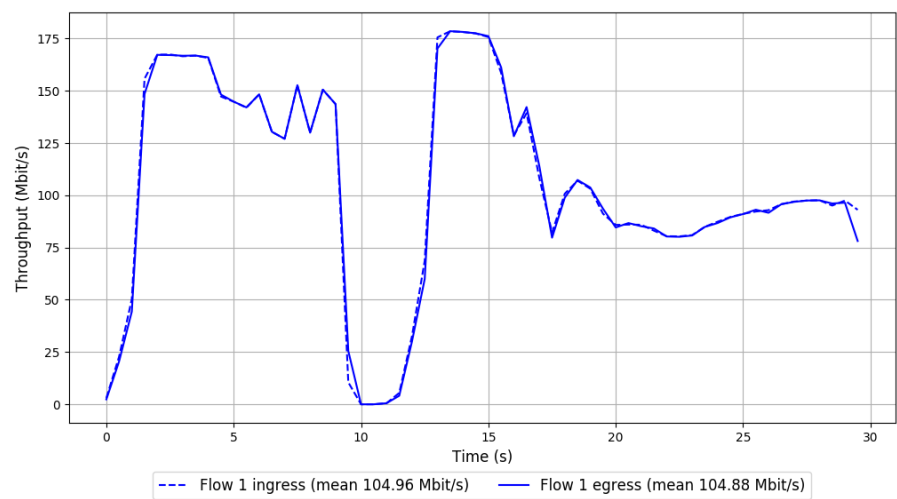
-- Flow 1:

Average throughput: 104.88 Mbit/s

95th percentile per-packet one-way delay: 51.805 ms

Loss rate: 0.39%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-16 07:19:43

End at: 2018-02-16 07:20:13

Below is generated by plot.py at 2018-02-16 11:57:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.73 Mbit/s

95th percentile per-packet one-way delay: 50.303 ms

Loss rate: 0.33%

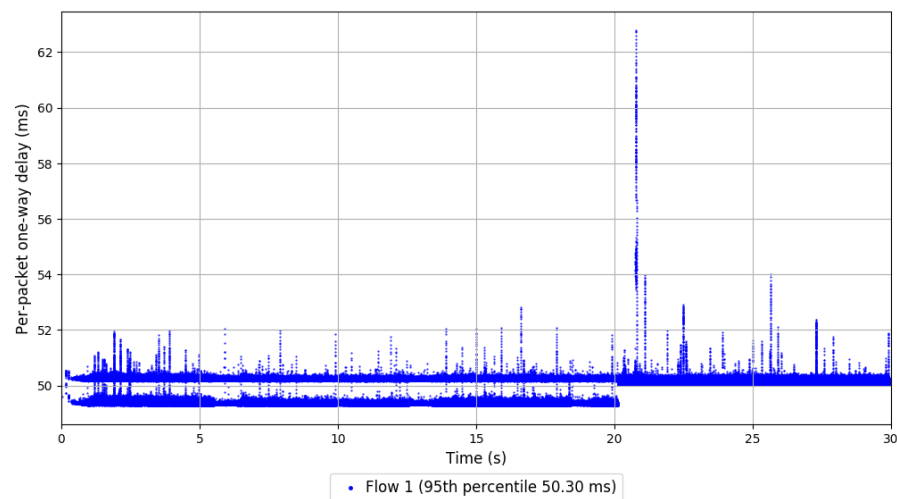
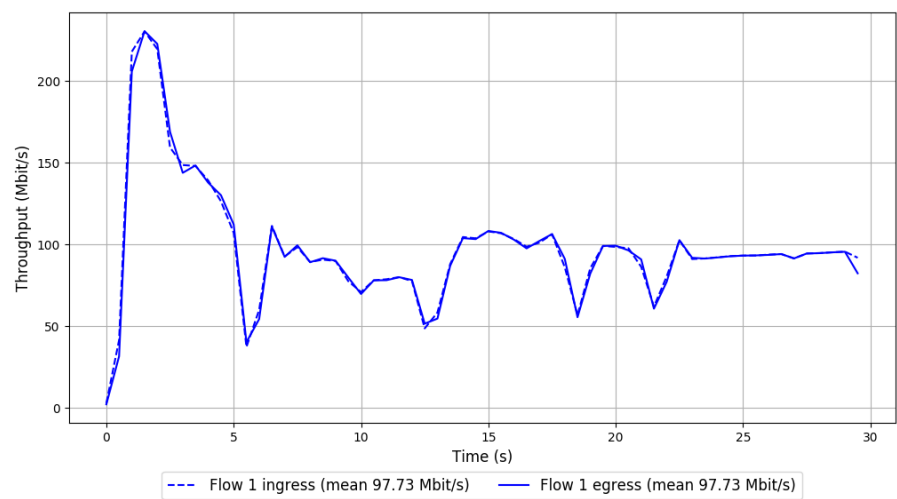
-- Flow 1:

Average throughput: 97.73 Mbit/s

95th percentile per-packet one-way delay: 50.303 ms

Loss rate: 0.33%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-16 07:34:24

End at: 2018-02-16 07:34:54

Below is generated by plot.py at 2018-02-16 11:58:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.73 Mbit/s

95th percentile per-packet one-way delay: 50.512 ms

Loss rate: 0.32%

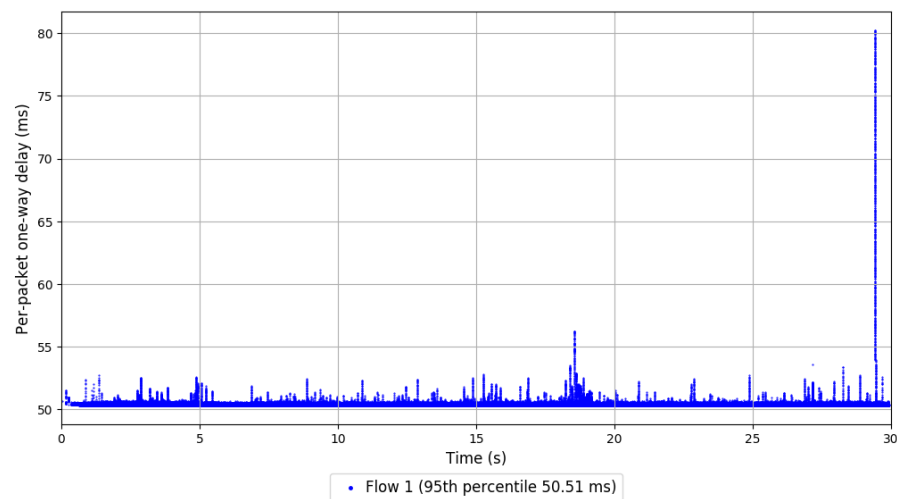
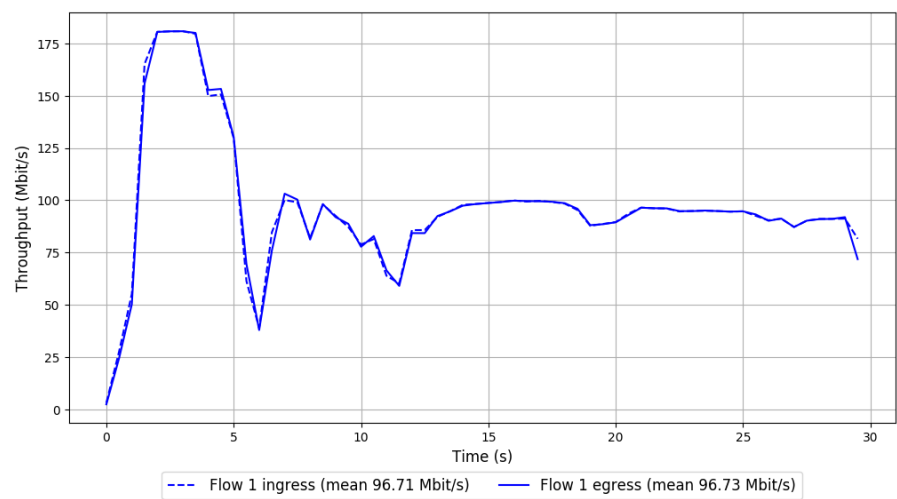
-- Flow 1:

Average throughput: 96.73 Mbit/s

95th percentile per-packet one-way delay: 50.512 ms

Loss rate: 0.32%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-16 07:49:21

End at: 2018-02-16 07:49:51

Below is generated by plot.py at 2018-02-16 11:59:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.39 Mbit/s

95th percentile per-packet one-way delay: 50.320 ms

Loss rate: 0.30%

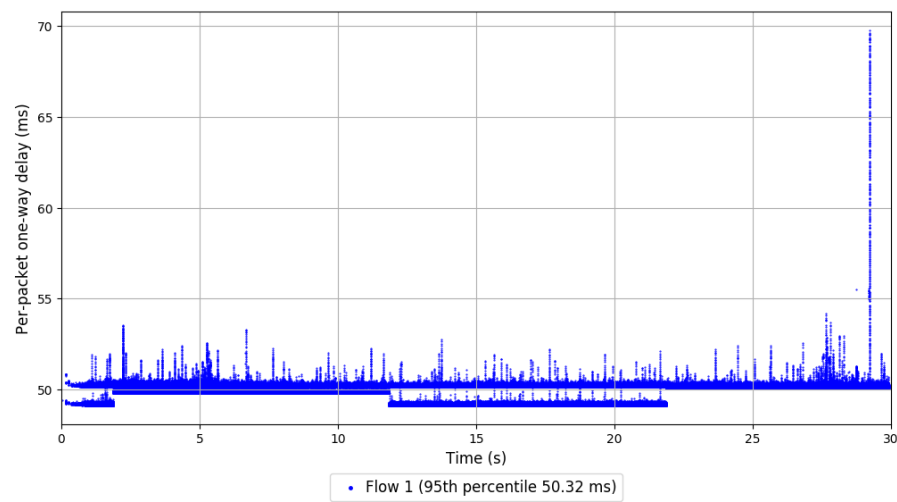
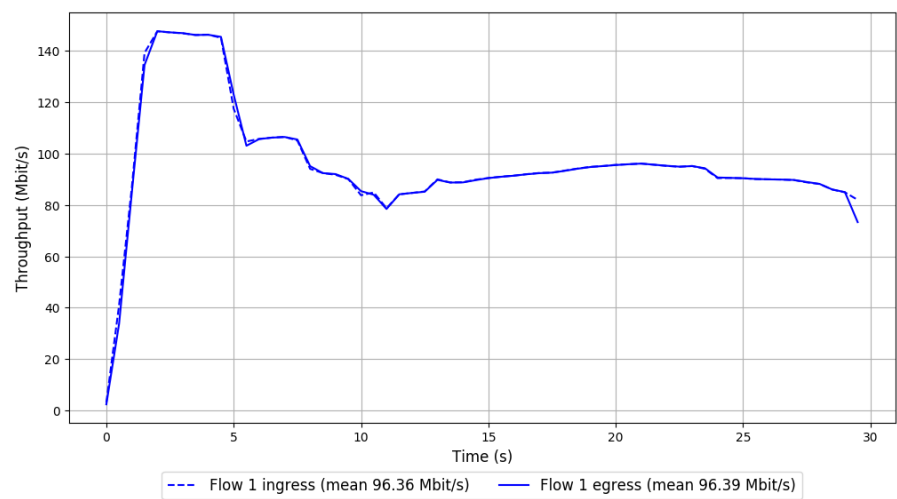
-- Flow 1:

Average throughput: 96.39 Mbit/s

95th percentile per-packet one-way delay: 50.320 ms

Loss rate: 0.30%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-16 08:04:09

End at: 2018-02-16 08:04:39

Below is generated by plot.py at 2018-02-16 11:59:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.17 Mbit/s

95th percentile per-packet one-way delay: 50.245 ms

Loss rate: 0.31%

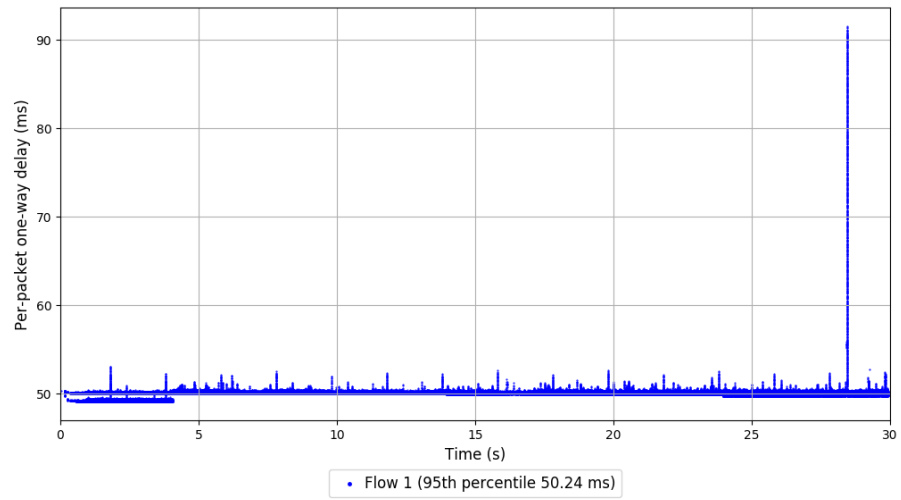
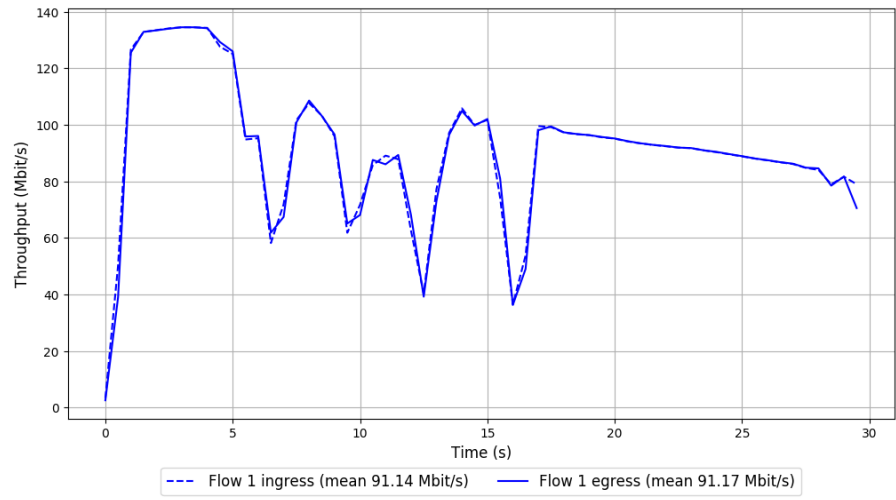
-- Flow 1:

Average throughput: 91.17 Mbit/s

95th percentile per-packet one-way delay: 50.245 ms

Loss rate: 0.31%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-16 08:19:02

End at: 2018-02-16 08:19:32

Below is generated by plot.py at 2018-02-16 11:59:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.62 Mbit/s

95th percentile per-packet one-way delay: 50.245 ms

Loss rate: 0.33%

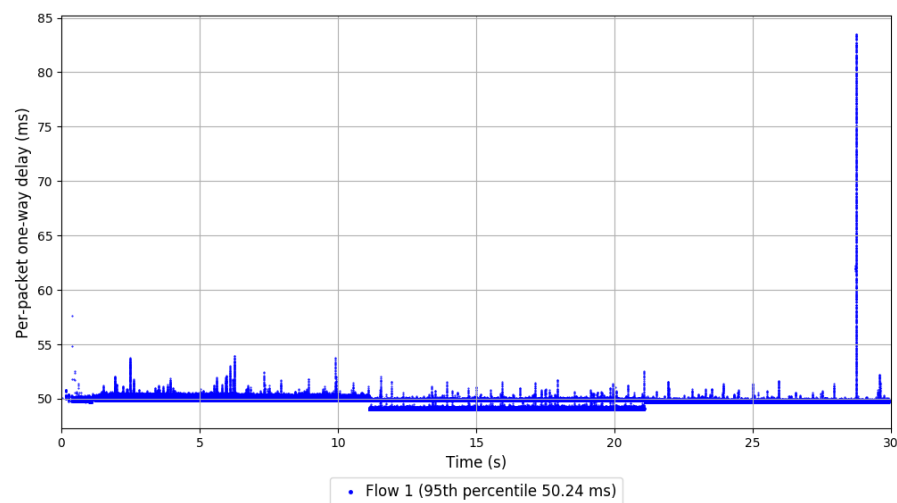
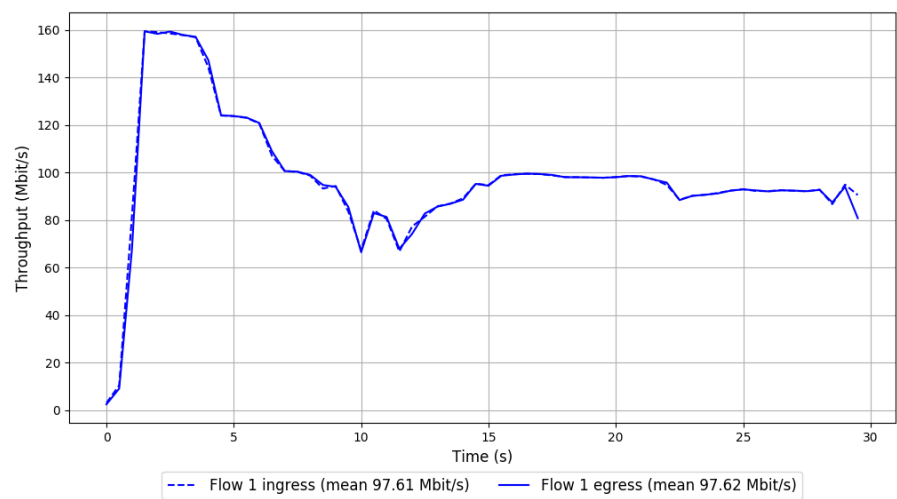
-- Flow 1:

Average throughput: 97.62 Mbit/s

95th percentile per-packet one-way delay: 50.245 ms

Loss rate: 0.33%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-02-16 06:11:11

End at: 2018-02-16 06:11:41

Below is generated by plot.py at 2018-02-16 12:14:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 808.15 Mbit/s

95th percentile per-packet one-way delay: 137.513 ms

Loss rate: 9.94%

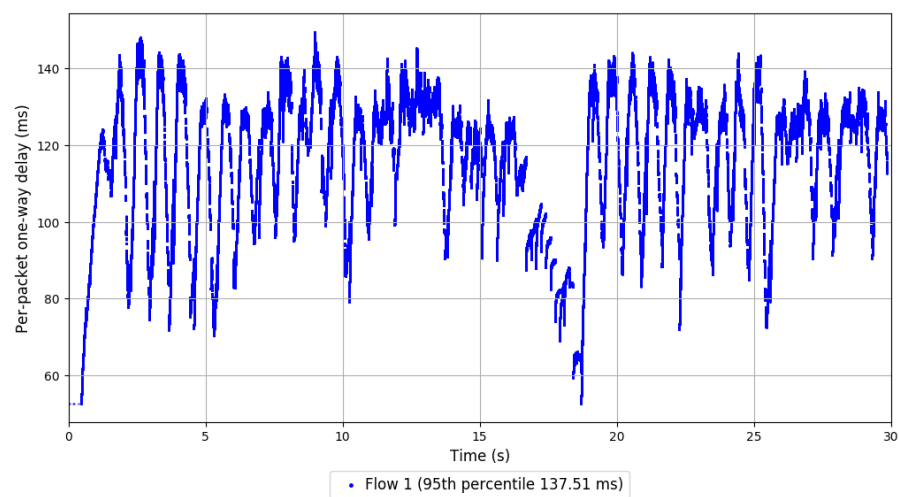
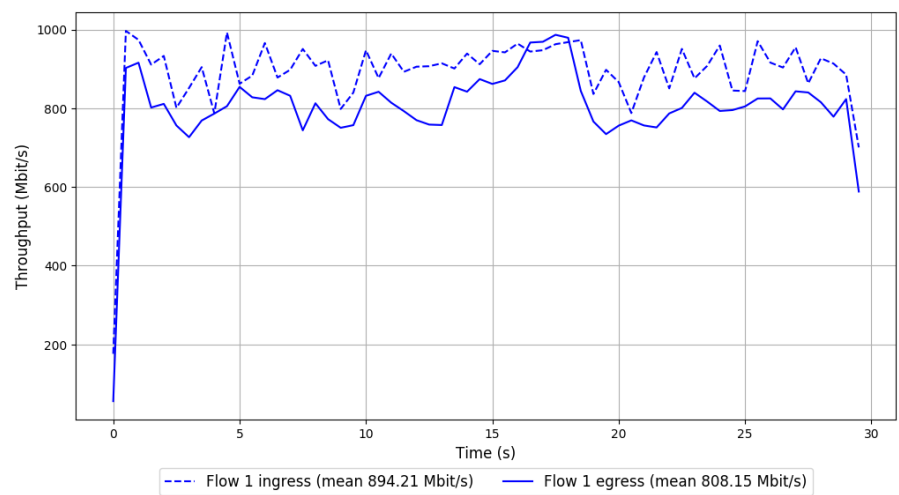
-- Flow 1:

Average throughput: 808.15 Mbit/s

95th percentile per-packet one-way delay: 137.513 ms

Loss rate: 9.94%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-16 06:26:12

End at: 2018-02-16 06:26:42

Below is generated by plot.py at 2018-02-16 12:15:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 912.59 Mbit/s

95th percentile per-packet one-way delay: 126.707 ms

Loss rate: 5.97%

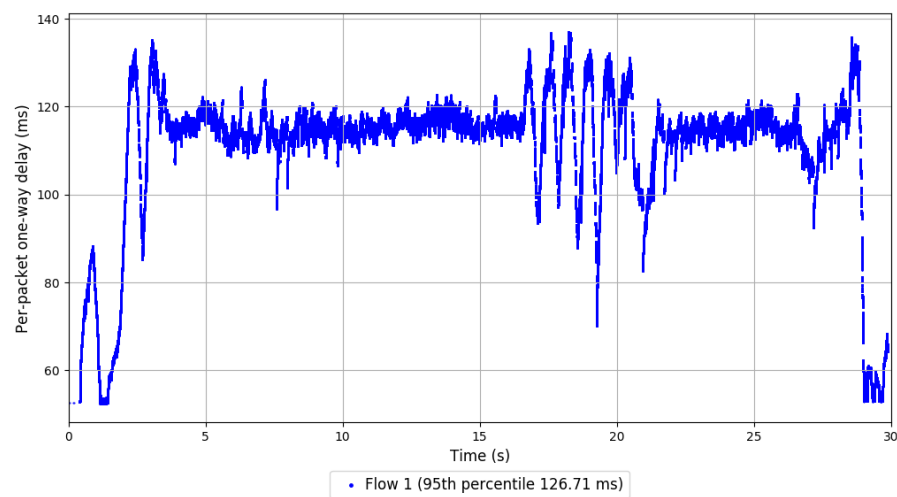
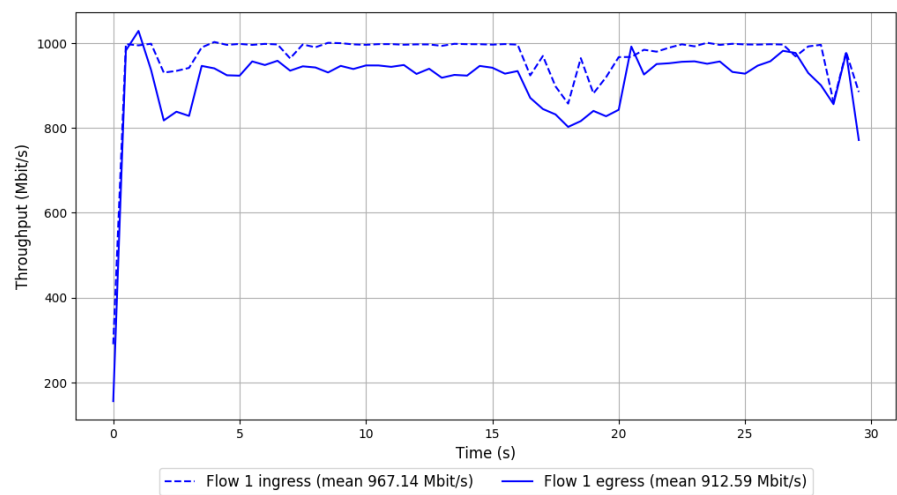
-- Flow 1:

Average throughput: 912.59 Mbit/s

95th percentile per-packet one-way delay: 126.707 ms

Loss rate: 5.97%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-16 06:40:53

End at: 2018-02-16 06:41:23

Below is generated by plot.py at 2018-02-16 12:15:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 879.47 Mbit/s

95th percentile per-packet one-way delay: 125.833 ms

Loss rate: 7.47%

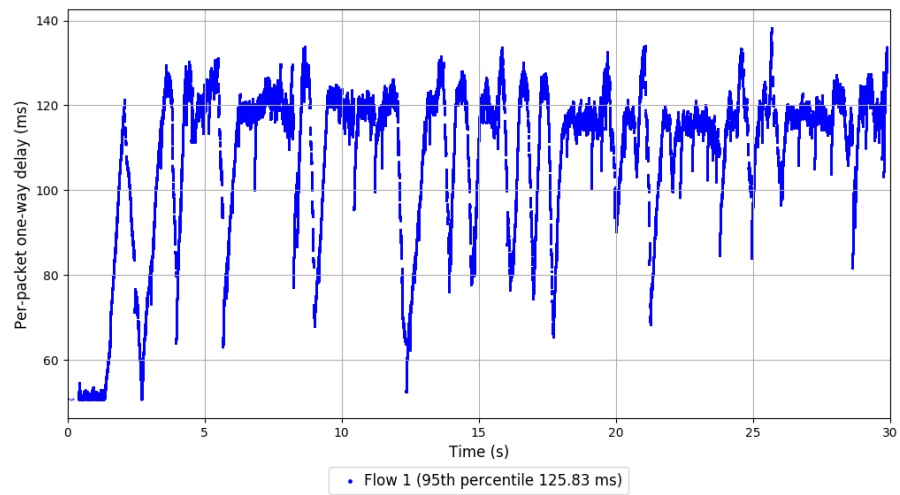
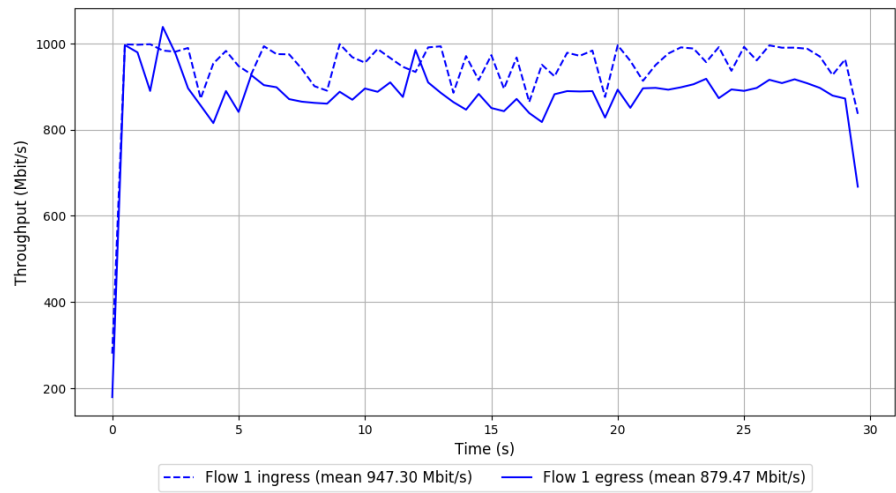
-- Flow 1:

Average throughput: 879.47 Mbit/s

95th percentile per-packet one-way delay: 125.833 ms

Loss rate: 7.47%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-16 06:55:43

End at: 2018-02-16 06:56:13

Below is generated by plot.py at 2018-02-16 12:16:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 953.69 Mbit/s

95th percentile per-packet one-way delay: 118.085 ms

Loss rate: 1.85%

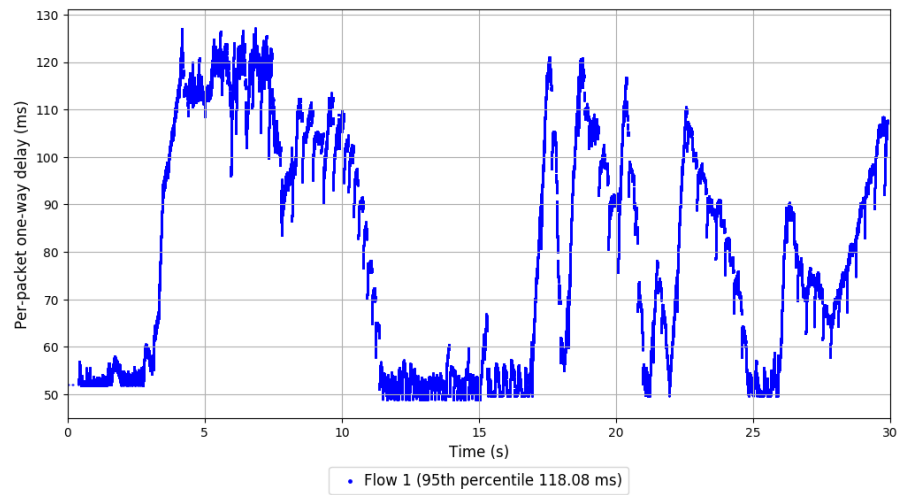
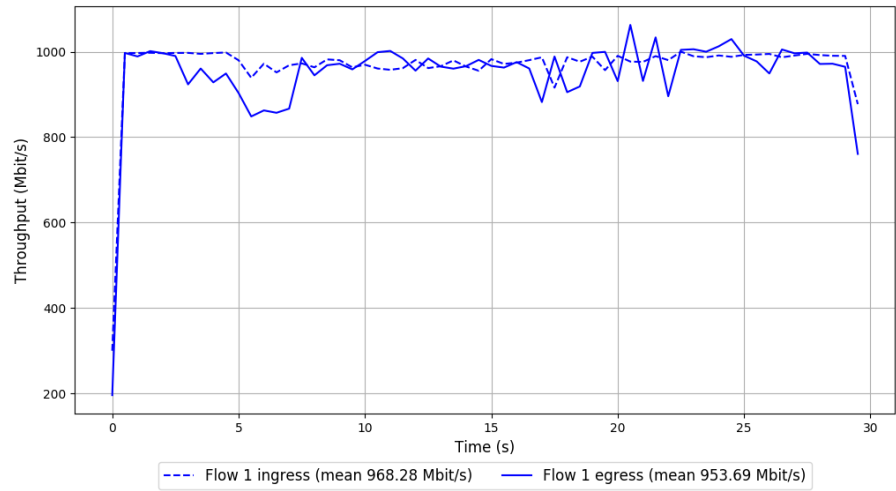
-- Flow 1:

Average throughput: 953.69 Mbit/s

95th percentile per-packet one-way delay: 118.085 ms

Loss rate: 1.85%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-16 07:10:40

End at: 2018-02-16 07:11:10

Below is generated by plot.py at 2018-02-16 12:16:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 927.99 Mbit/s

95th percentile per-packet one-way delay: 203.333 ms

Loss rate: 3.62%

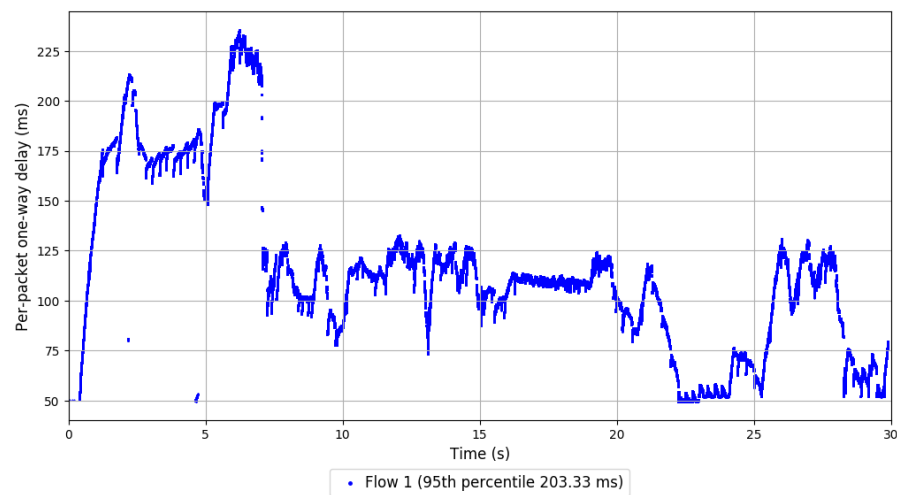
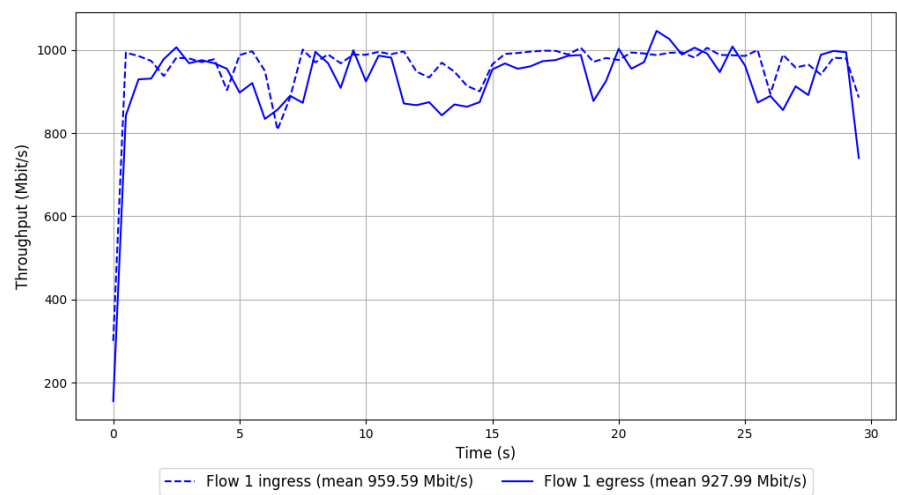
-- Flow 1:

Average throughput: 927.99 Mbit/s

95th percentile per-packet one-way delay: 203.333 ms

Loss rate: 3.62%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-16 07:25:26

End at: 2018-02-16 07:25:57

Below is generated by plot.py at 2018-02-16 12:17:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 904.09 Mbit/s

95th percentile per-packet one-way delay: 270.299 ms

Loss rate: 5.14%

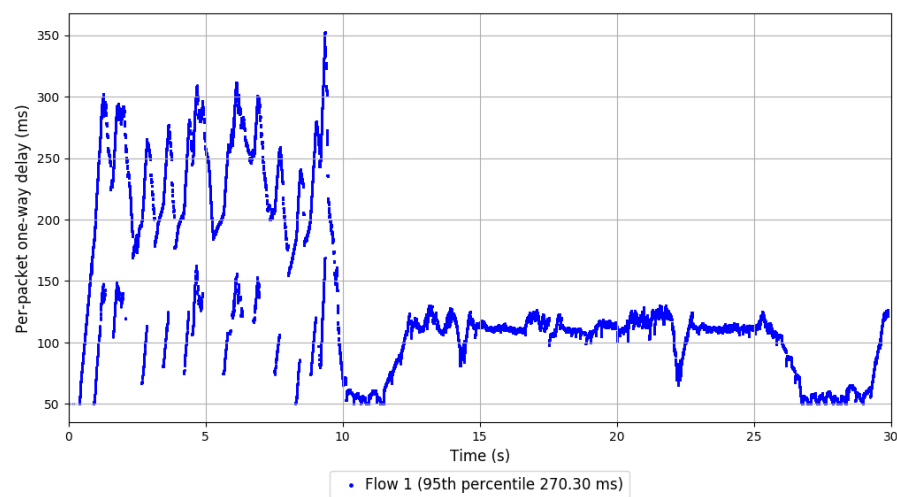
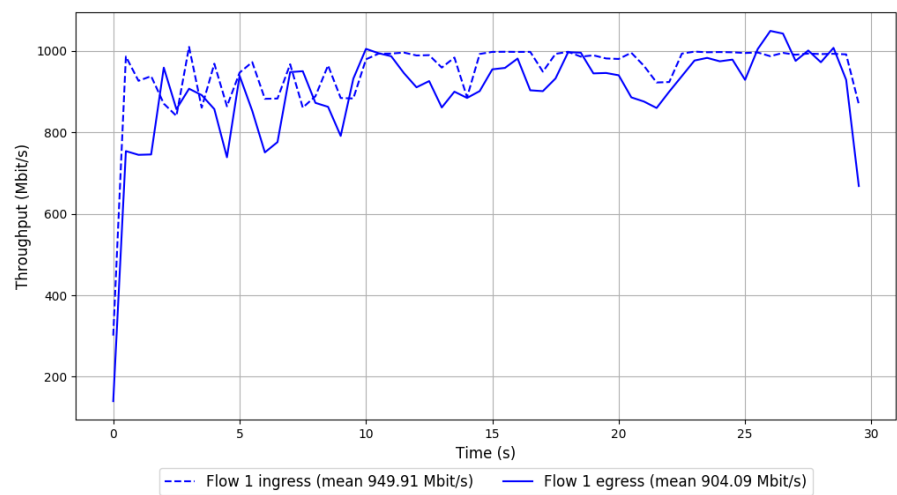
-- Flow 1:

Average throughput: 904.09 Mbit/s

95th percentile per-packet one-way delay: 270.299 ms

Loss rate: 5.14%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-16 07:40:10

End at: 2018-02-16 07:40:40

Below is generated by plot.py at 2018-02-16 12:17:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 899.84 Mbit/s

95th percentile per-packet one-way delay: 121.503 ms

Loss rate: 6.36%

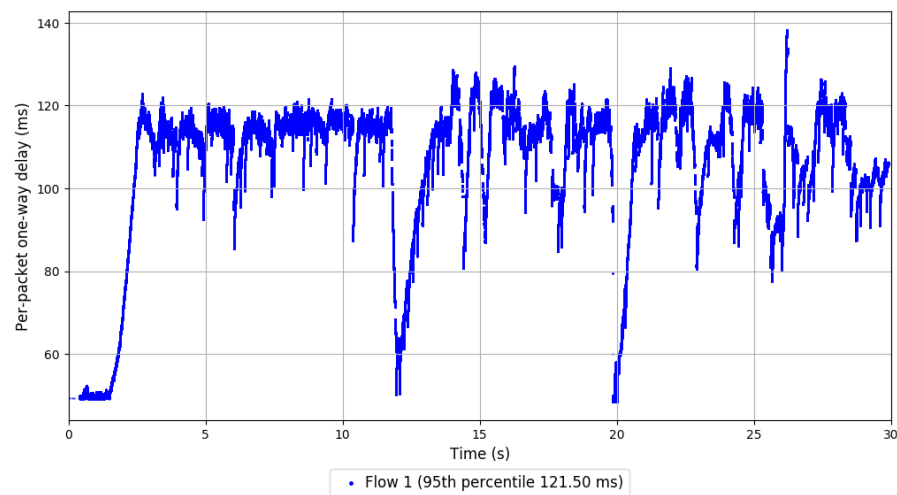
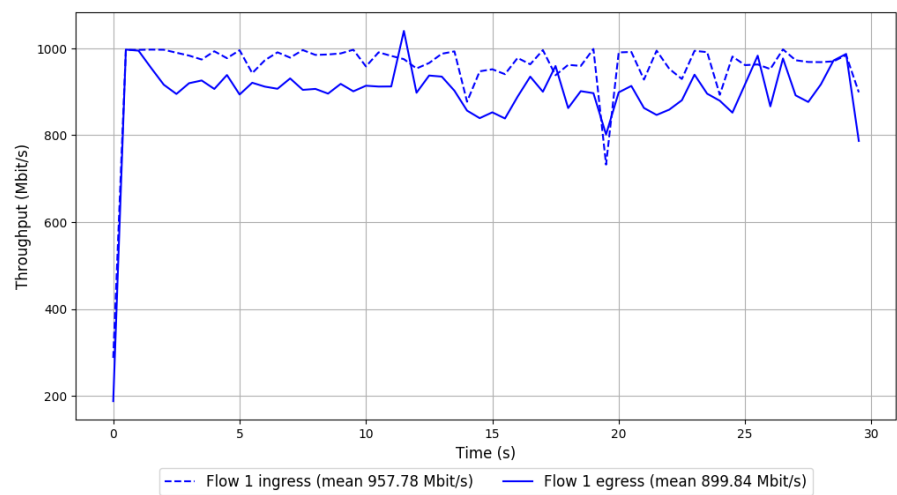
-- Flow 1:

Average throughput: 899.84 Mbit/s

95th percentile per-packet one-way delay: 121.503 ms

Loss rate: 6.36%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-16 07:55:16

End at: 2018-02-16 07:55:46

Below is generated by plot.py at 2018-02-16 12:17:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 793.22 Mbit/s

95th percentile per-packet one-way delay: 190.356 ms

Loss rate: 11.04%

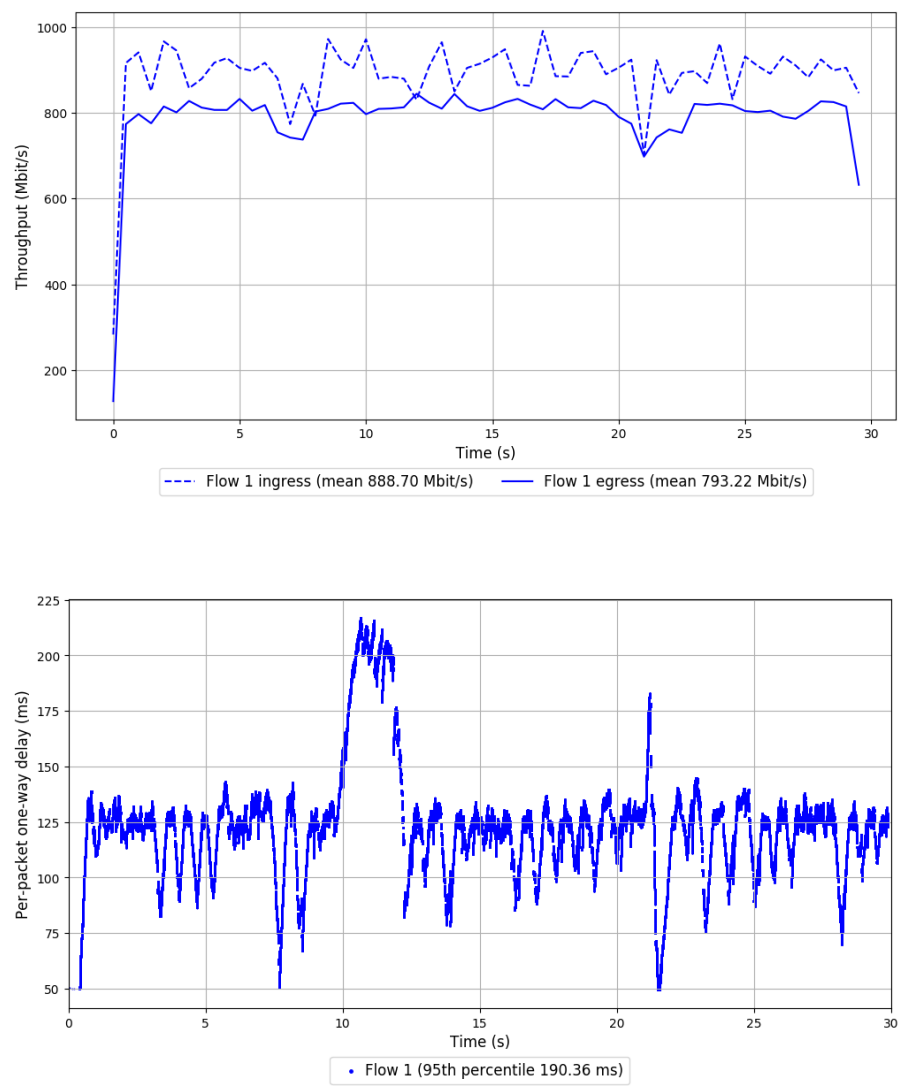
-- Flow 1:

Average throughput: 793.22 Mbit/s

95th percentile per-packet one-way delay: 190.356 ms

Loss rate: 11.04%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-16 08:09:58

End at: 2018-02-16 08:10:28

Below is generated by plot.py at 2018-02-16 12:31:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 864.43 Mbit/s

95th percentile per-packet one-way delay: 131.550 ms

Loss rate: 8.48%

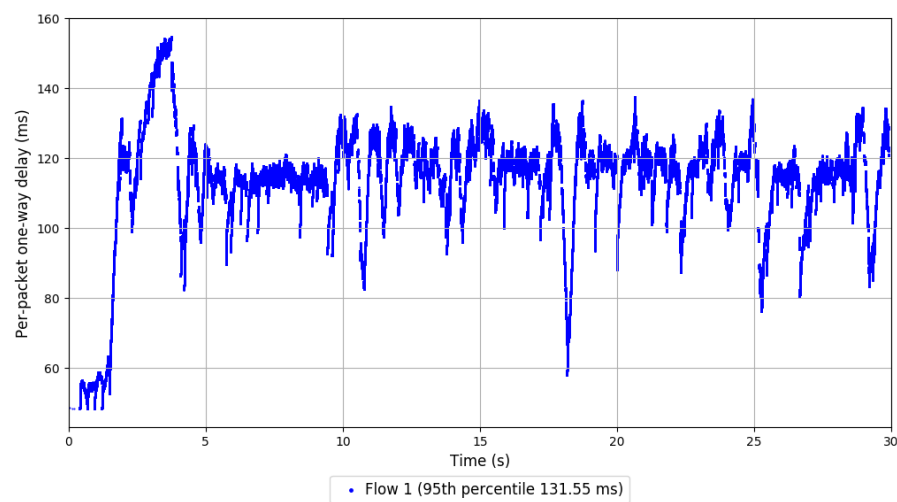
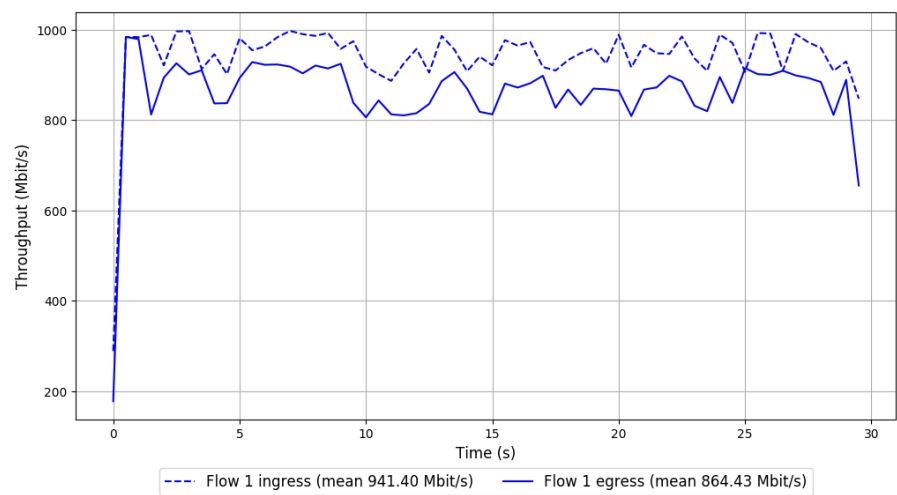
-- Flow 1:

Average throughput: 864.43 Mbit/s

95th percentile per-packet one-way delay: 131.550 ms

Loss rate: 8.48%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-16 08:24:56

End at: 2018-02-16 08:25:26

Below is generated by plot.py at 2018-02-16 12:33:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 903.65 Mbit/s

95th percentile per-packet one-way delay: 129.586 ms

Loss rate: 5.54%

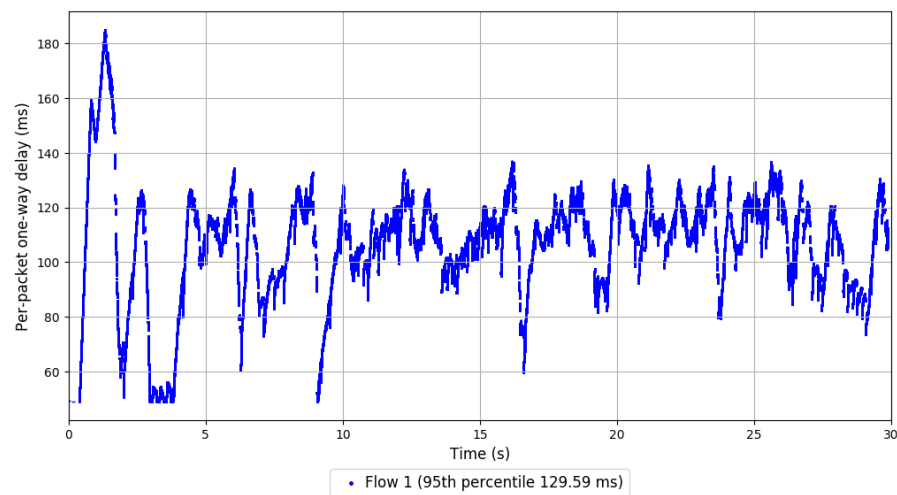
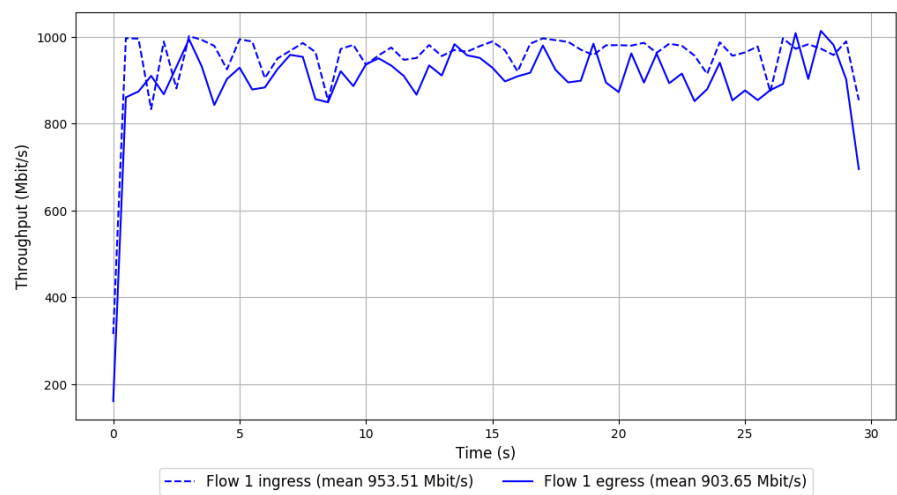
-- Flow 1:

Average throughput: 903.65 Mbit/s

95th percentile per-packet one-way delay: 129.586 ms

Loss rate: 5.54%

Run 10: Report of FillP — Data Link

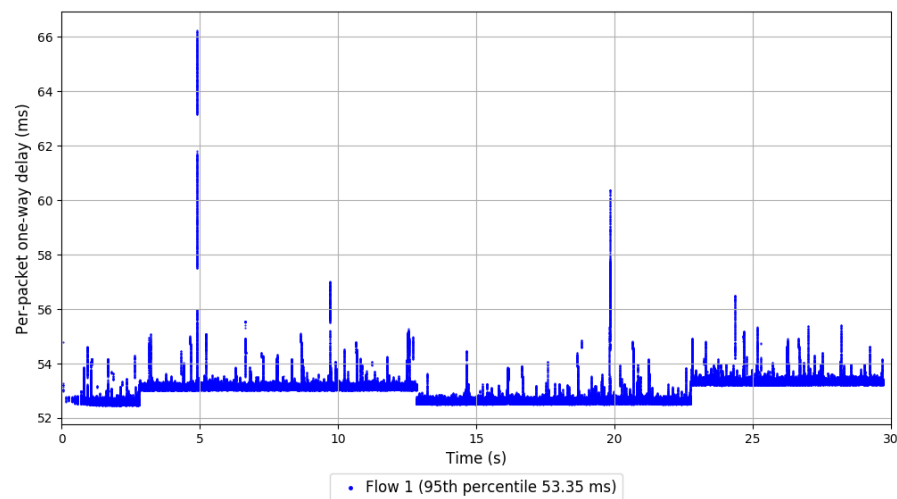
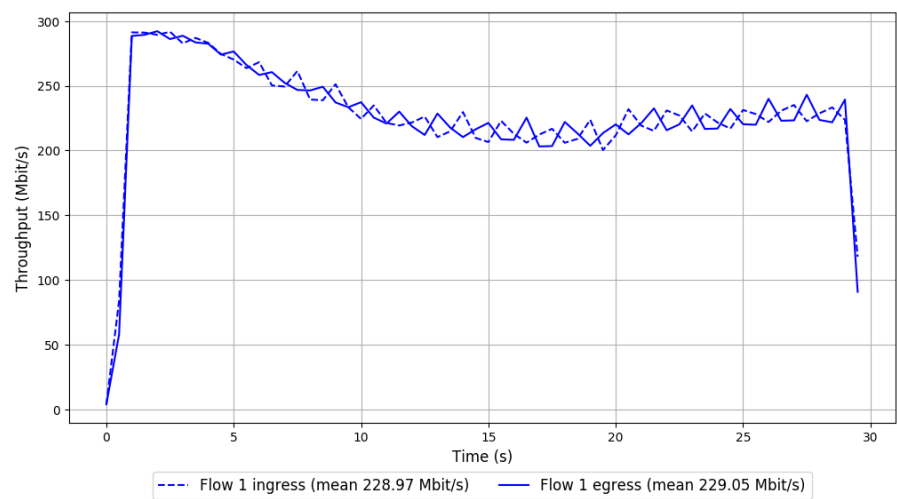


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-16 06:07:40
End at: 2018-02-16 06:08:10

# Below is generated by plot.py at 2018-02-16 12:33:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 229.05 Mbit/s
95th percentile per-packet one-way delay: 53.346 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 229.05 Mbit/s
95th percentile per-packet one-way delay: 53.346 ms
Loss rate: 0.32%
```

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-02-16 06:22:40

End at: 2018-02-16 06:23:10

Below is generated by plot.py at 2018-02-16 12:33:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 246.58 Mbit/s

95th percentile per-packet one-way delay: 53.021 ms

Loss rate: 0.28%

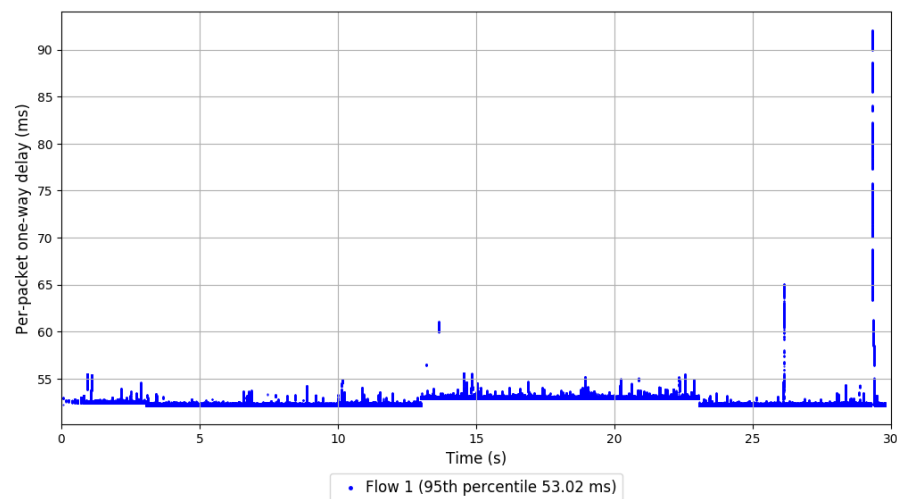
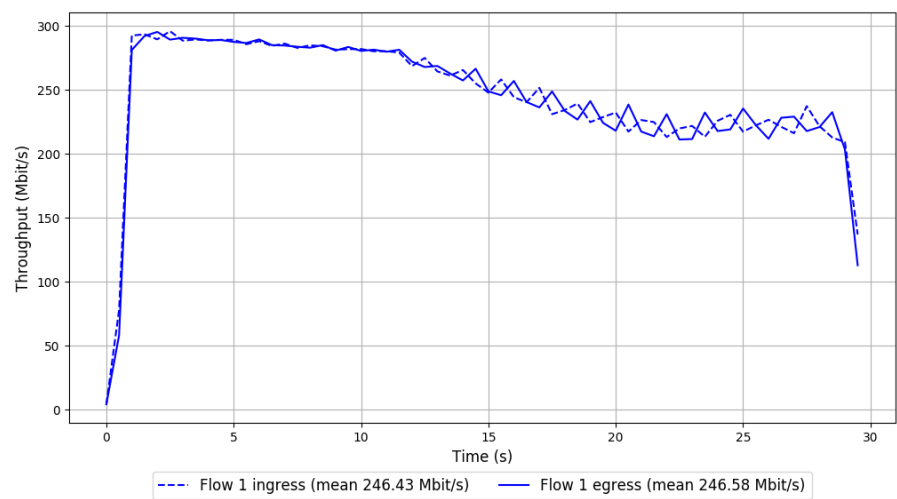
-- Flow 1:

Average throughput: 246.58 Mbit/s

95th percentile per-packet one-way delay: 53.021 ms

Loss rate: 0.28%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-16 06:37:42

End at: 2018-02-16 06:38:12

Below is generated by plot.py at 2018-02-16 12:33:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 247.58 Mbit/s

95th percentile per-packet one-way delay: 52.416 ms

Loss rate: 0.34%

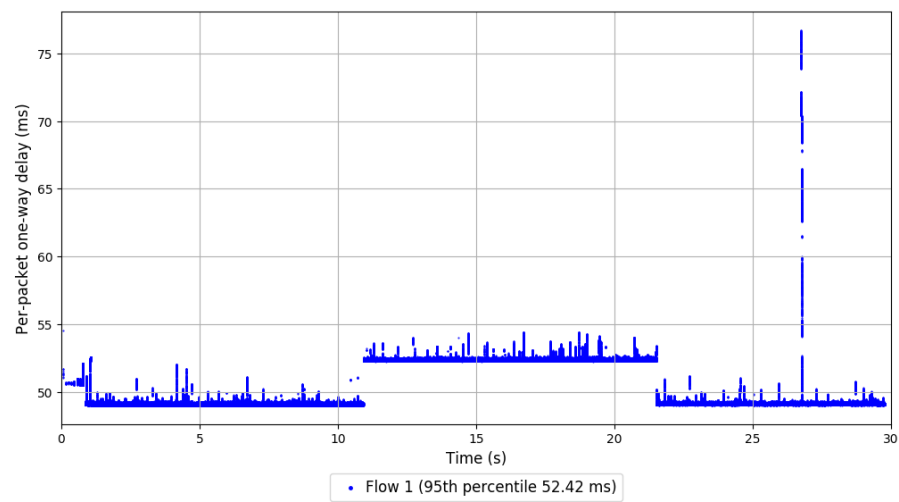
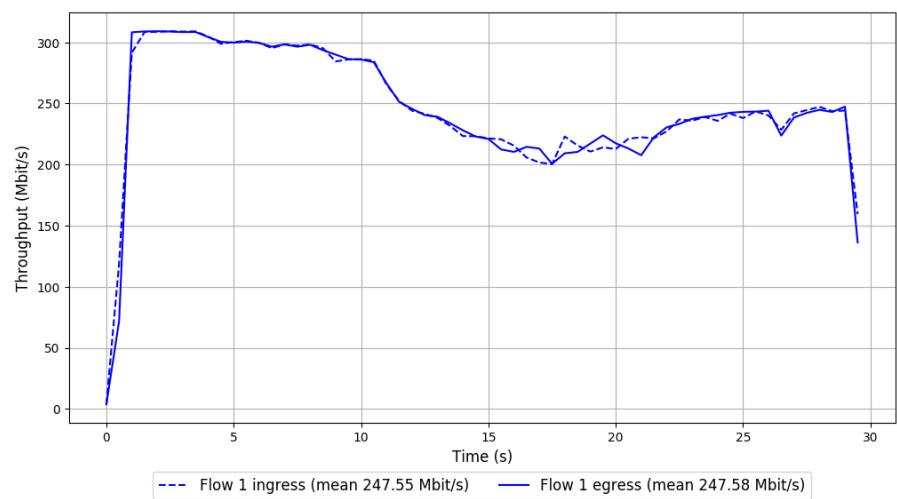
-- Flow 1:

Average throughput: 247.58 Mbit/s

95th percentile per-packet one-way delay: 52.416 ms

Loss rate: 0.34%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-16 06:52:23

End at: 2018-02-16 06:52:53

Below is generated by plot.py at 2018-02-16 12:33:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.45 Mbit/s

95th percentile per-packet one-way delay: 50.605 ms

Loss rate: 0.42%

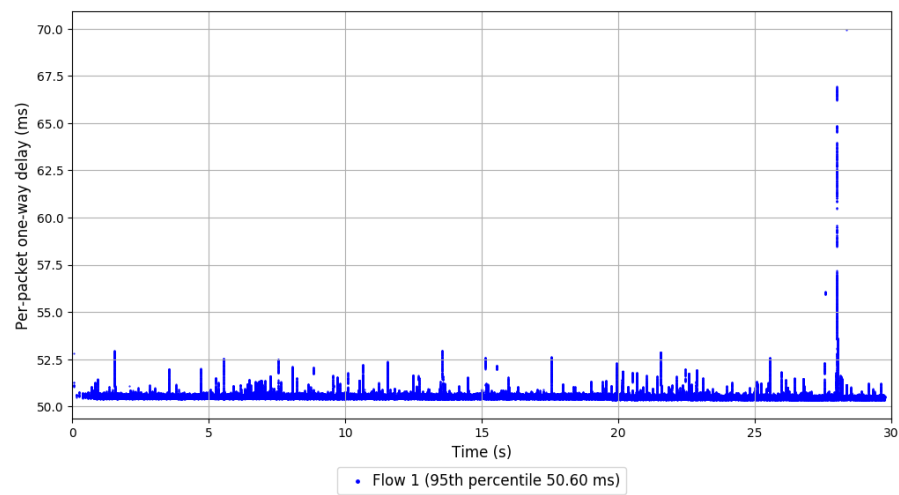
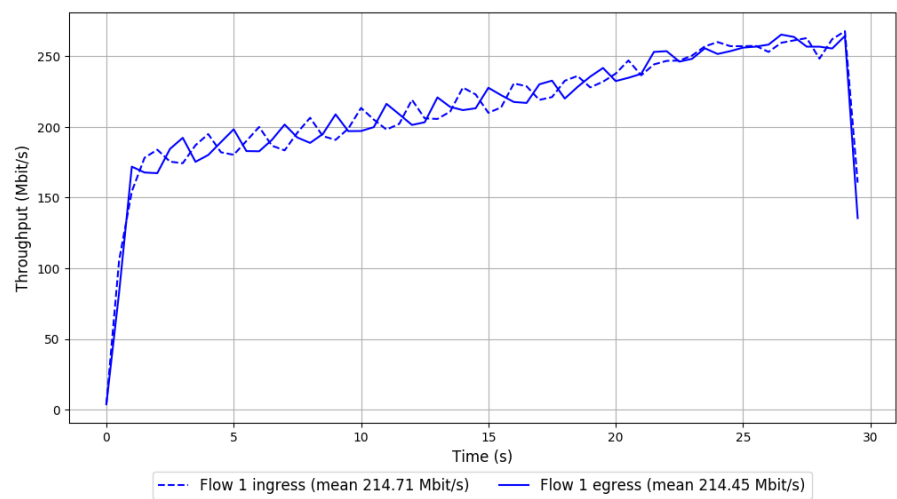
-- Flow 1:

Average throughput: 214.45 Mbit/s

95th percentile per-packet one-way delay: 50.605 ms

Loss rate: 0.42%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-16 07:07:08

End at: 2018-02-16 07:07:38

Below is generated by plot.py at 2018-02-16 12:33:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 258.77 Mbit/s

95th percentile per-packet one-way delay: 50.610 ms

Loss rate: 0.31%

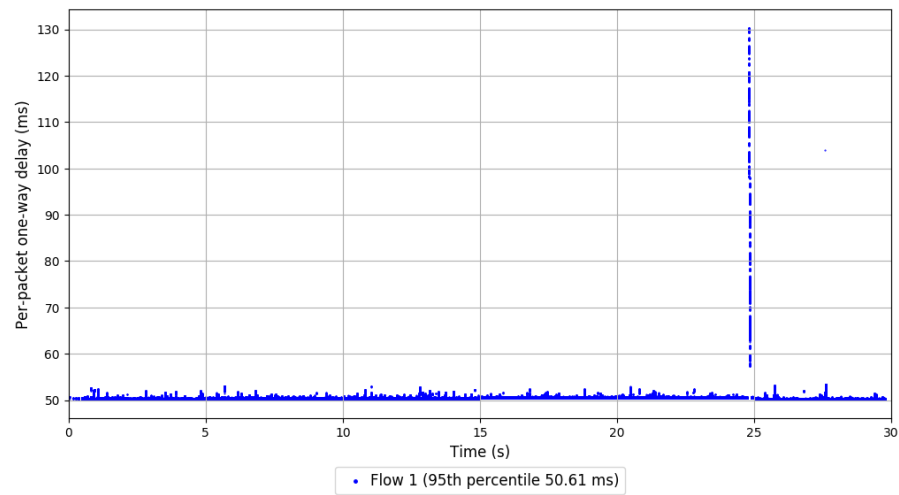
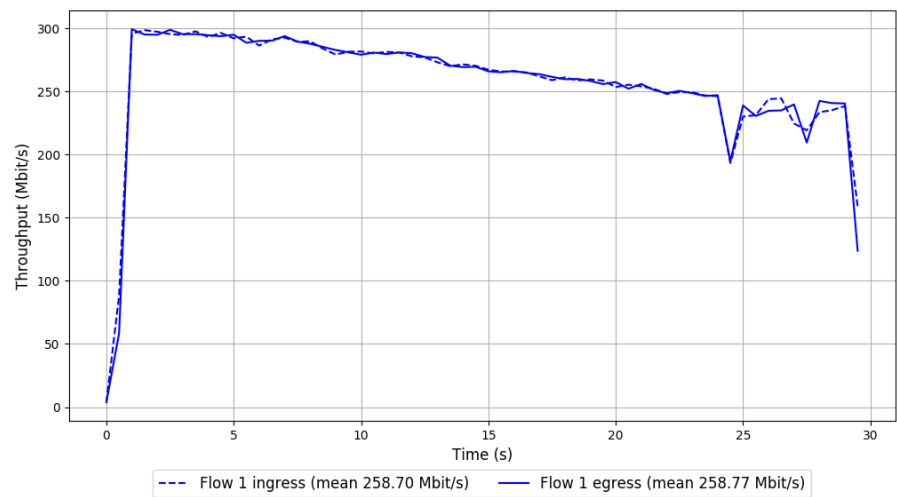
-- Flow 1:

Average throughput: 258.77 Mbit/s

95th percentile per-packet one-way delay: 50.610 ms

Loss rate: 0.31%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-16 07:22:08

End at: 2018-02-16 07:22:38

Below is generated by plot.py at 2018-02-16 12:33:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.47 Mbit/s

95th percentile per-packet one-way delay: 50.507 ms

Loss rate: 0.39%

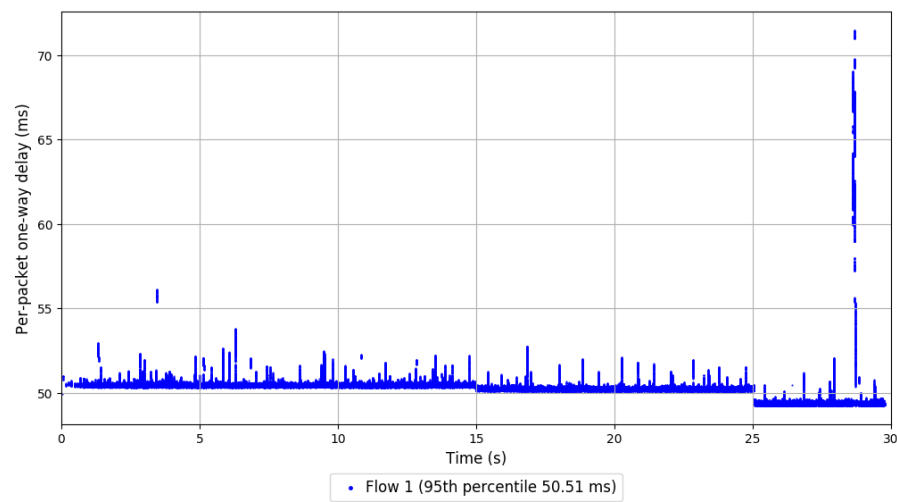
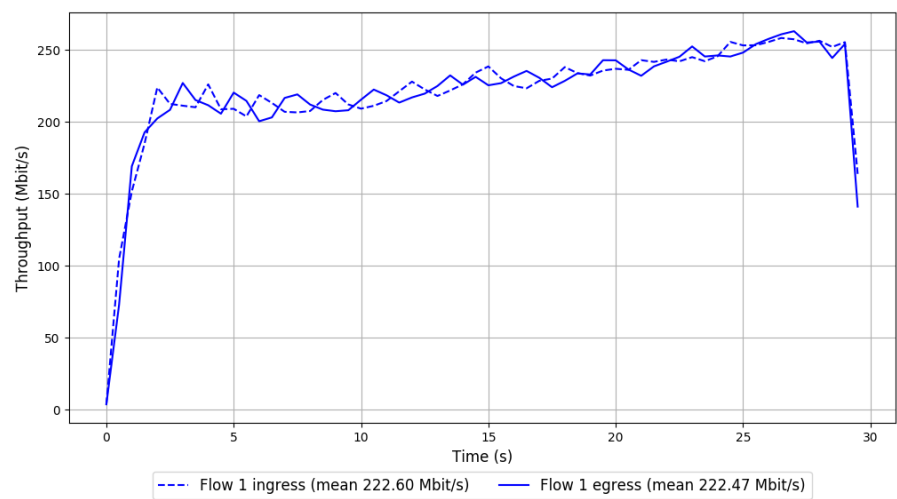
-- Flow 1:

Average throughput: 222.47 Mbit/s

95th percentile per-packet one-way delay: 50.507 ms

Loss rate: 0.39%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-16 07:36:50

End at: 2018-02-16 07:37:20

Below is generated by plot.py at 2018-02-16 12:33:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 241.12 Mbit/s

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

Loss rate: 0.32%

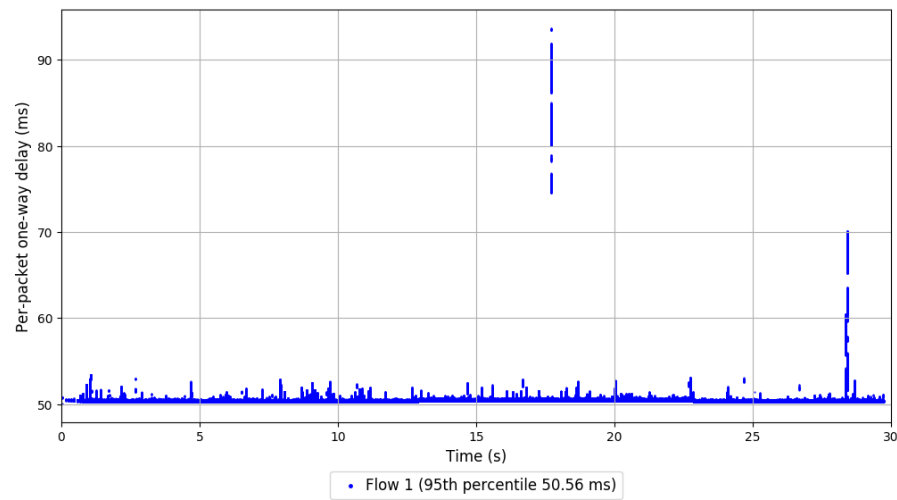
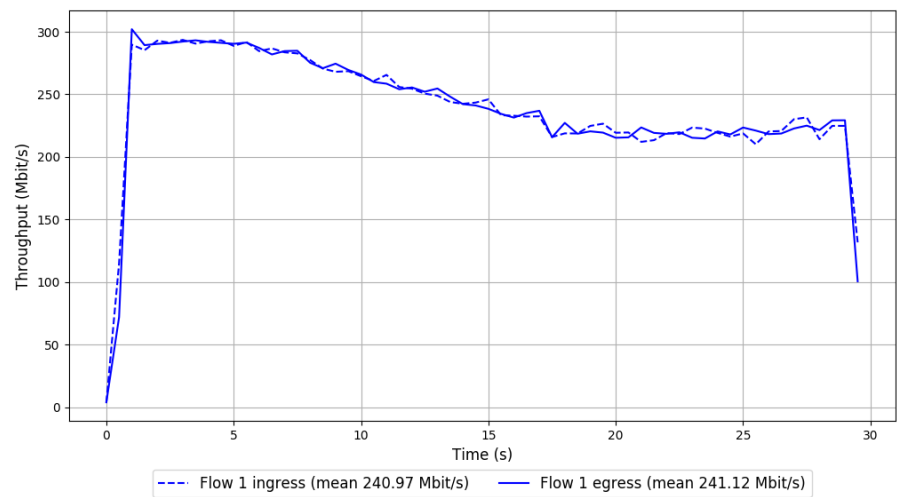
-- Flow 1:

Average throughput: 241.12 Mbit/s

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

Loss rate: 0.32%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-16 07:51:47

End at: 2018-02-16 07:52:17

Below is generated by plot.py at 2018-02-16 12:33:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 237.00 Mbit/s

95th percentile per-packet one-way delay: 50.346 ms

Loss rate: 0.32%

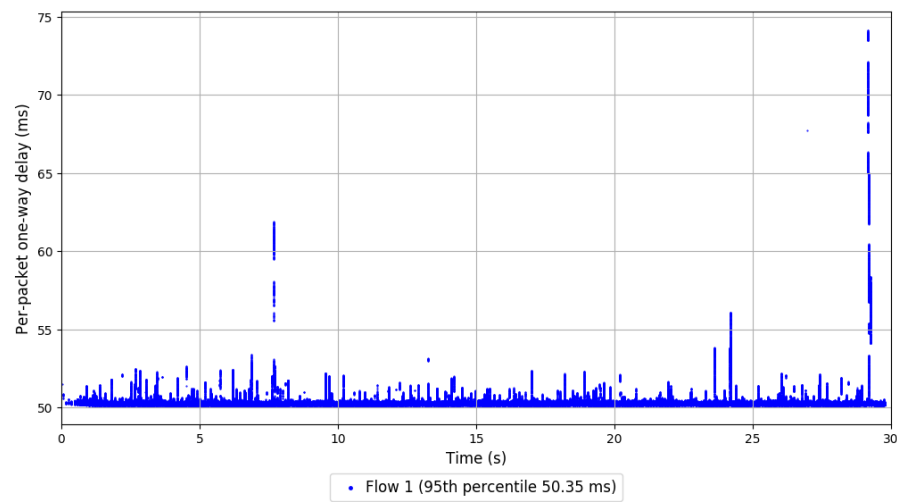
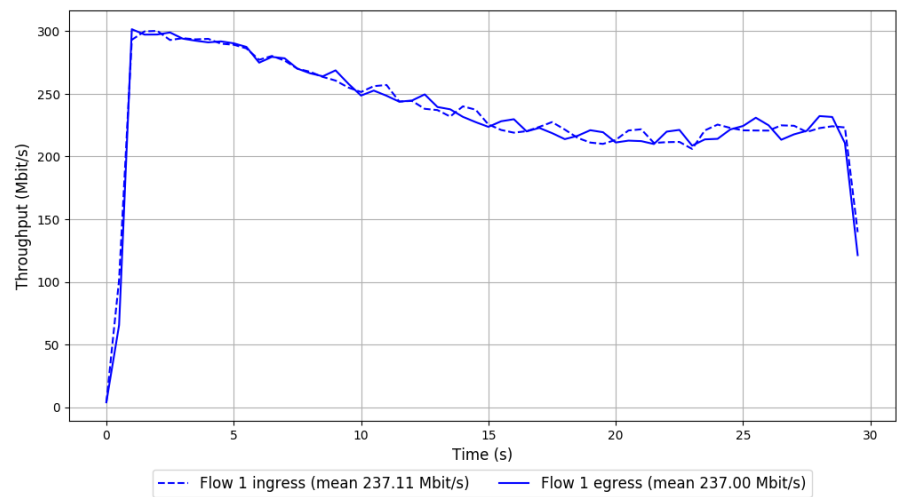
-- Flow 1:

Average throughput: 237.00 Mbit/s

95th percentile per-packet one-way delay: 50.346 ms

Loss rate: 0.32%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-16 08:06:33

End at: 2018-02-16 08:07:04

Below is generated by plot.py at 2018-02-16 12:33:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.26 Mbit/s

95th percentile per-packet one-way delay: 49.898 ms

Loss rate: 0.33%

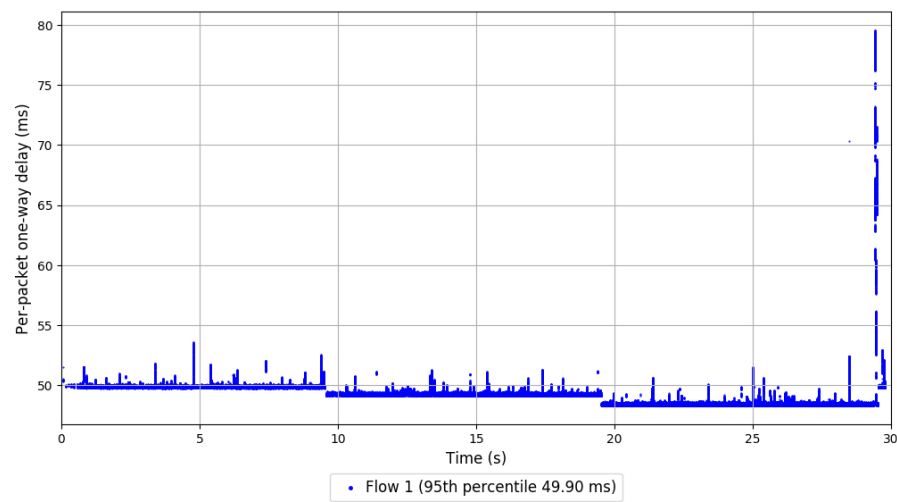
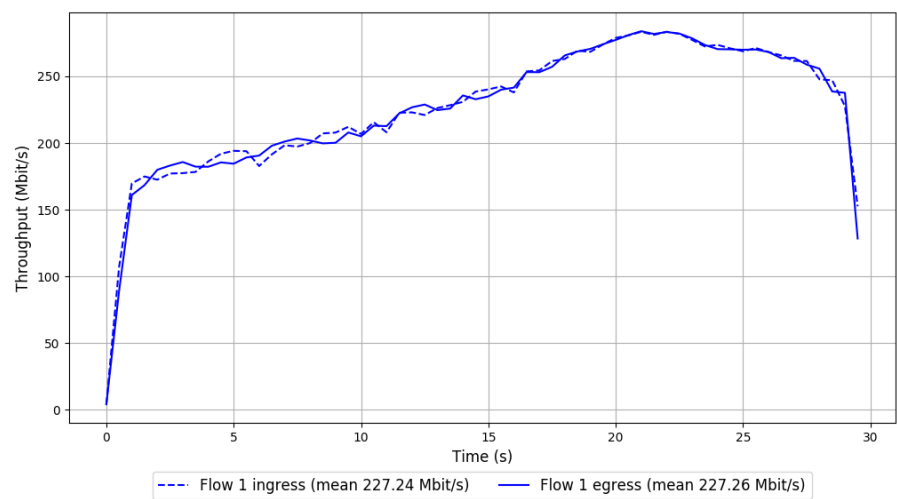
-- Flow 1:

Average throughput: 227.26 Mbit/s

95th percentile per-packet one-way delay: 49.898 ms

Loss rate: 0.33%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-16 08:21:27

End at: 2018-02-16 08:21:57

Below is generated by plot.py at 2018-02-16 12:33:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 251.89 Mbit/s

95th percentile per-packet one-way delay: 50.121 ms

Loss rate: 0.31%

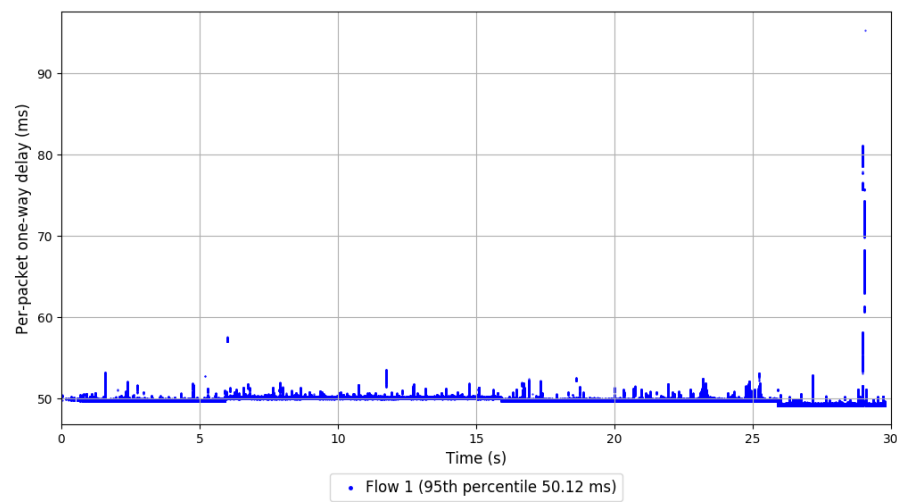
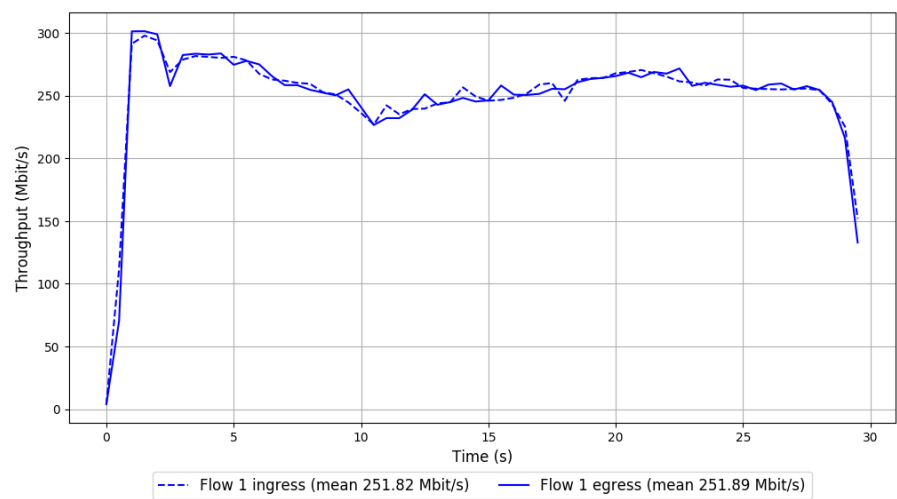
-- Flow 1:

Average throughput: 251.89 Mbit/s

95th percentile per-packet one-way delay: 50.121 ms

Loss rate: 0.31%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-02-16 06:06:36

End at: 2018-02-16 06:07:06

Below is generated by plot.py at 2018-02-16 12:33:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 415.01 Mbit/s

95th percentile per-packet one-way delay: 81.387 ms

Loss rate: 0.39%

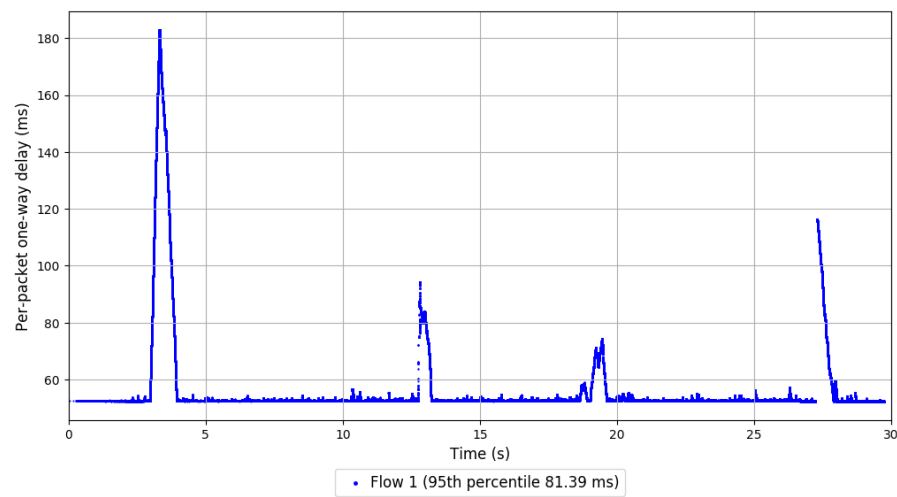
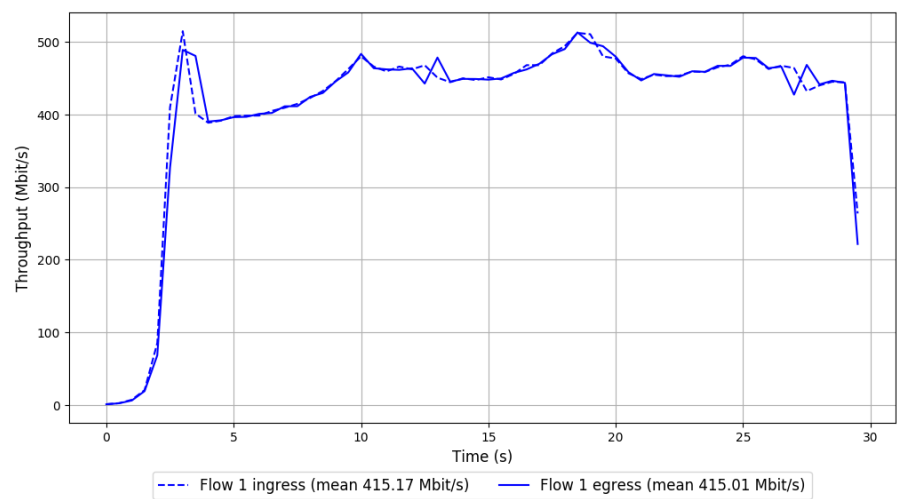
-- Flow 1:

Average throughput: 415.01 Mbit/s

95th percentile per-packet one-way delay: 81.387 ms

Loss rate: 0.39%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-16 06:21:37

End at: 2018-02-16 06:22:07

Below is generated by plot.py at 2018-02-16 12:33:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 413.34 Mbit/s

95th percentile per-packet one-way delay: 55.344 ms

Loss rate: 0.41%

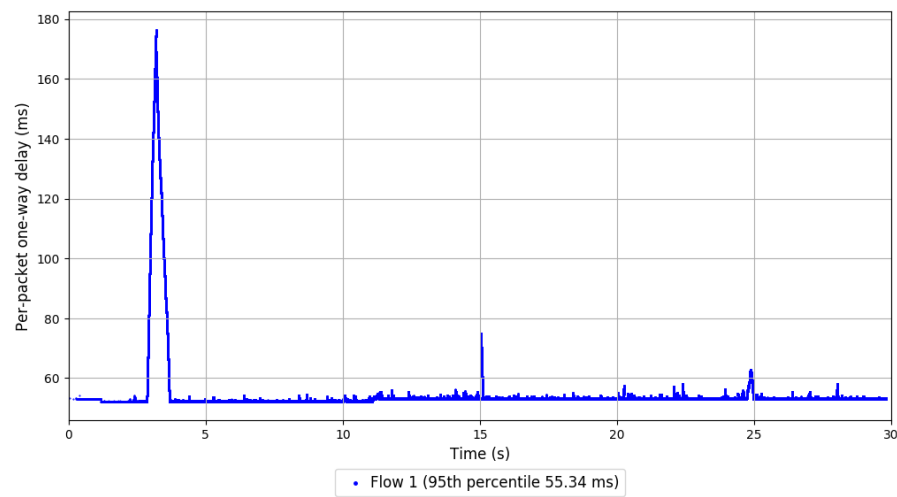
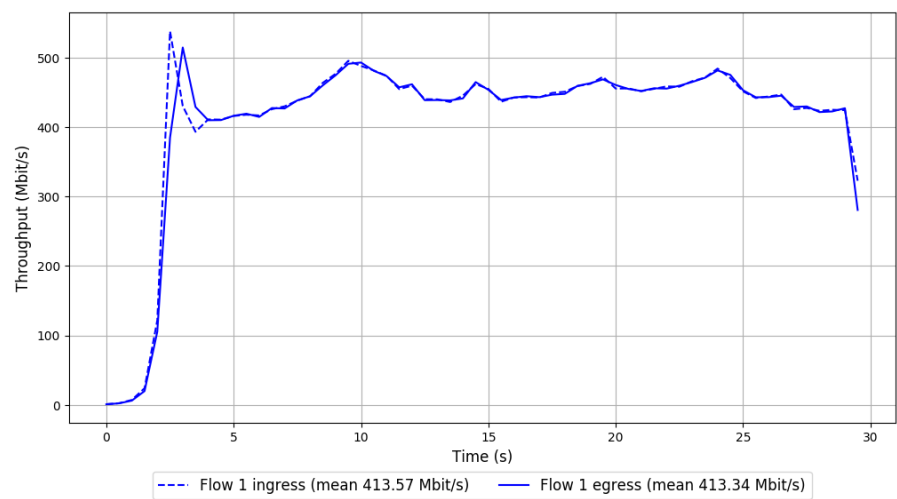
-- Flow 1:

Average throughput: 413.34 Mbit/s

95th percentile per-packet one-way delay: 55.344 ms

Loss rate: 0.41%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-16 06:36:40

End at: 2018-02-16 06:37:10

Below is generated by plot.py at 2018-02-16 12:33:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 397.92 Mbit/s

95th percentile per-packet one-way delay: 56.158 ms

Loss rate: 0.40%

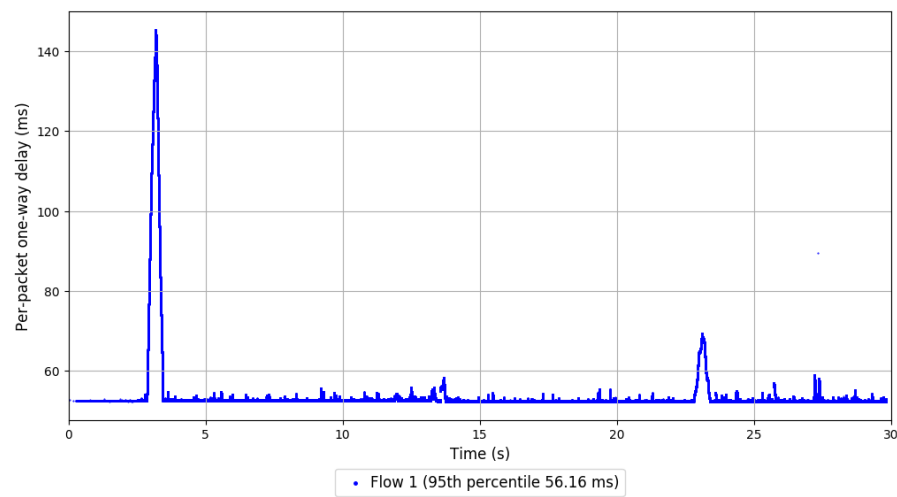
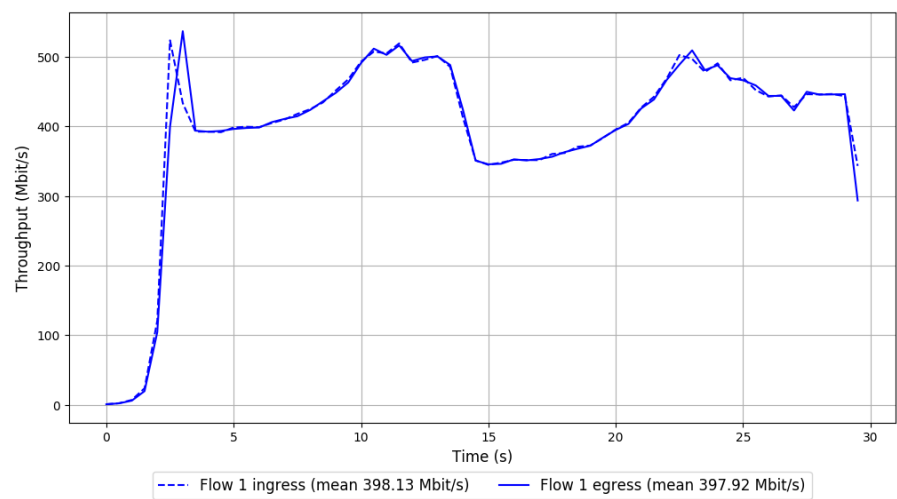
-- Flow 1:

Average throughput: 397.92 Mbit/s

95th percentile per-packet one-way delay: 56.158 ms

Loss rate: 0.40%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-16 06:51:22

End at: 2018-02-16 06:51:52

Below is generated by plot.py at 2018-02-16 12:33:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 378.28 Mbit/s

95th percentile per-packet one-way delay: 53.789 ms

Loss rate: 0.50%

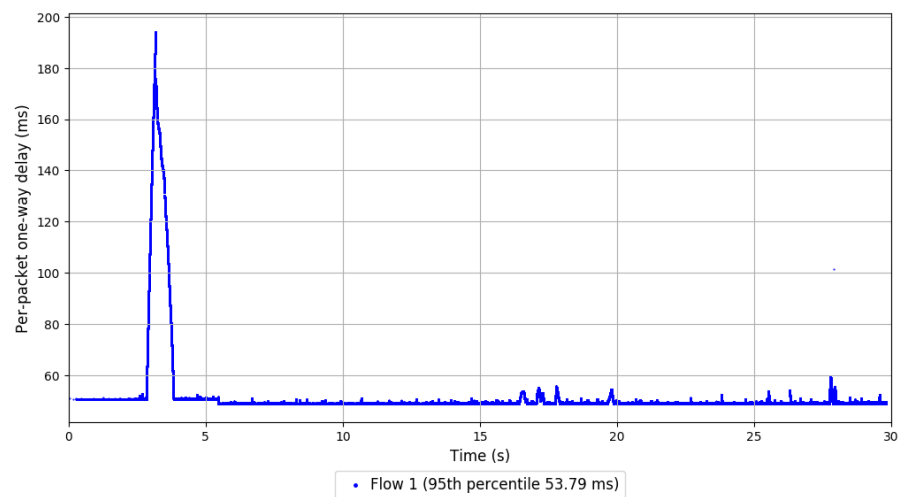
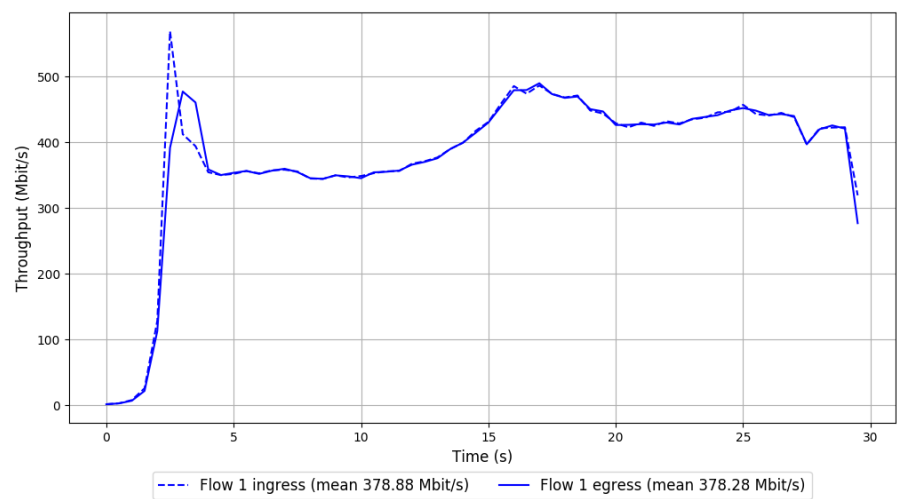
-- Flow 1:

Average throughput: 378.28 Mbit/s

95th percentile per-packet one-way delay: 53.789 ms

Loss rate: 0.50%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-16 07:06:06

End at: 2018-02-16 07:06:36

Below is generated by plot.py at 2018-02-16 12:33:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 391.95 Mbit/s

95th percentile per-packet one-way delay: 75.300 ms

Loss rate: 0.47%

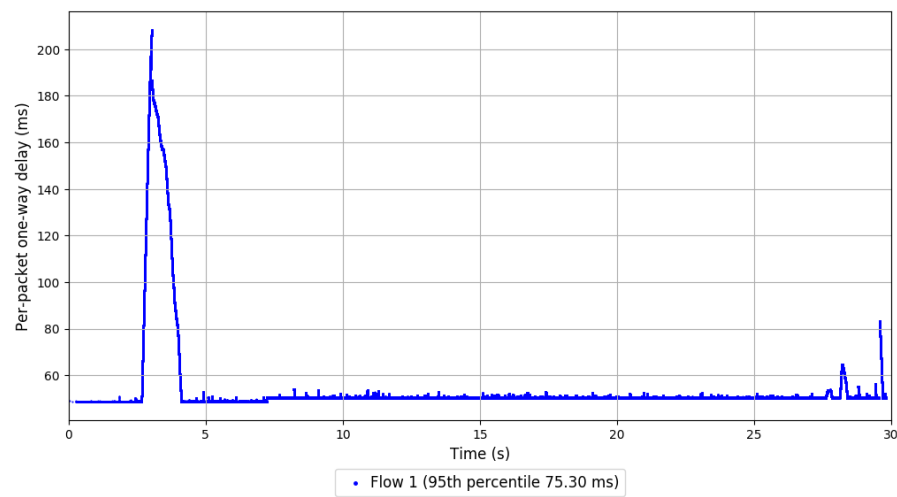
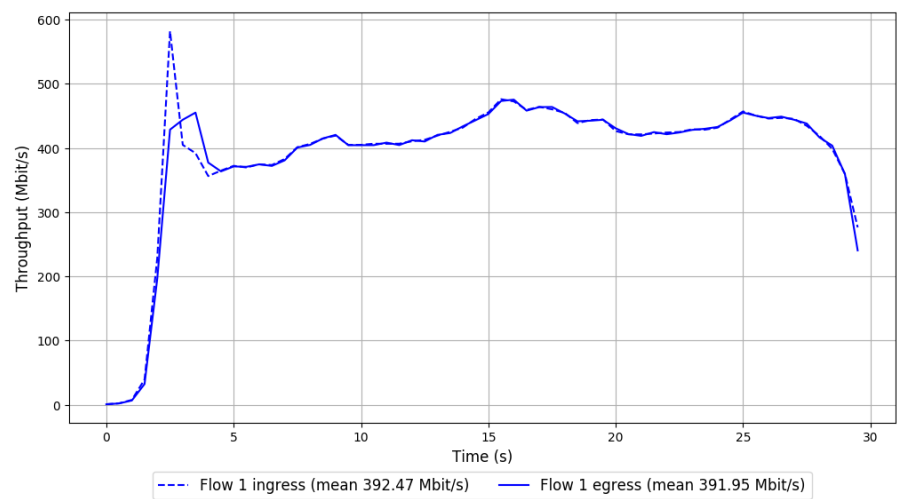
-- Flow 1:

Average throughput: 391.95 Mbit/s

95th percentile per-packet one-way delay: 75.300 ms

Loss rate: 0.47%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-16 07:21:05

End at: 2018-02-16 07:21:36

Below is generated by plot.py at 2018-02-16 12:33:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 404.69 Mbit/s

95th percentile per-packet one-way delay: 54.427 ms

Loss rate: 0.35%

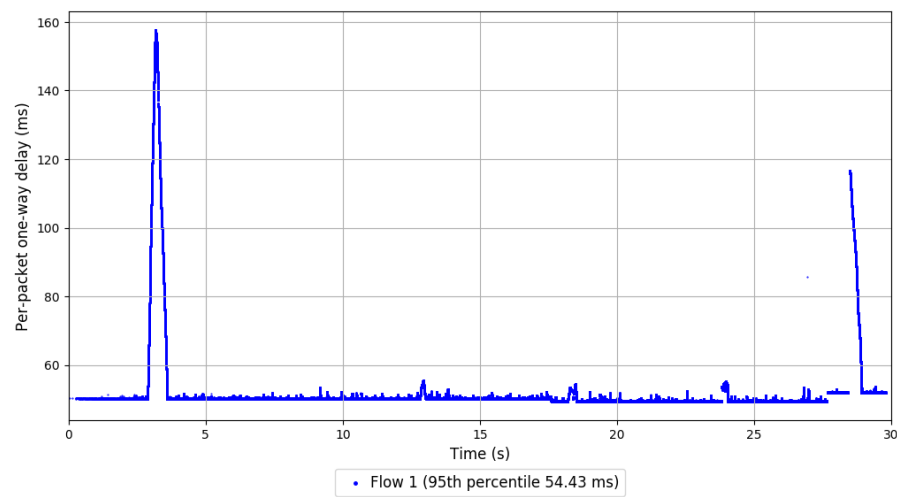
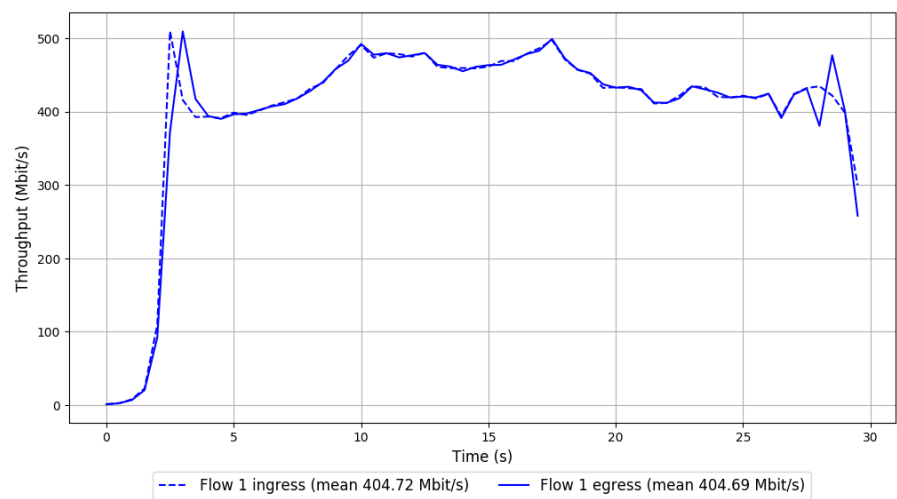
-- Flow 1:

Average throughput: 404.69 Mbit/s

95th percentile per-packet one-way delay: 54.427 ms

Loss rate: 0.35%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-16 07:35:46

End at: 2018-02-16 07:36:17

Below is generated by plot.py at 2018-02-16 12:37:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 416.31 Mbit/s

95th percentile per-packet one-way delay: 51.916 ms

Loss rate: 0.46%

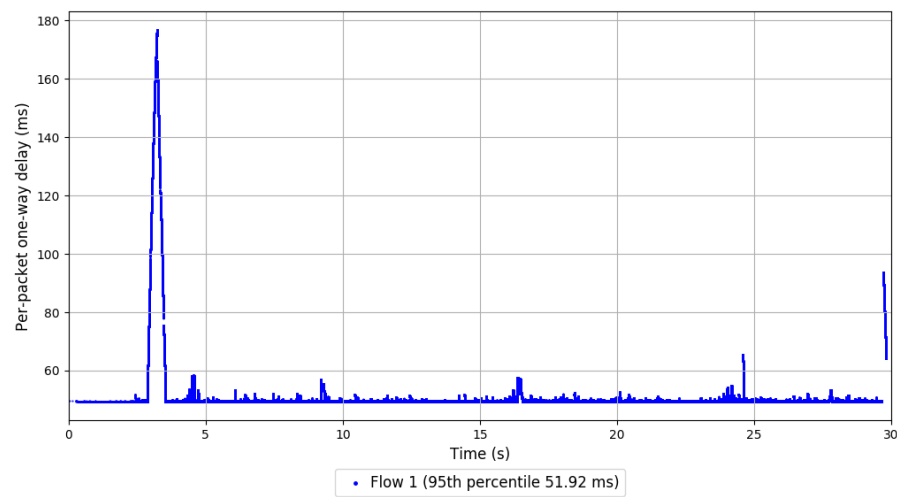
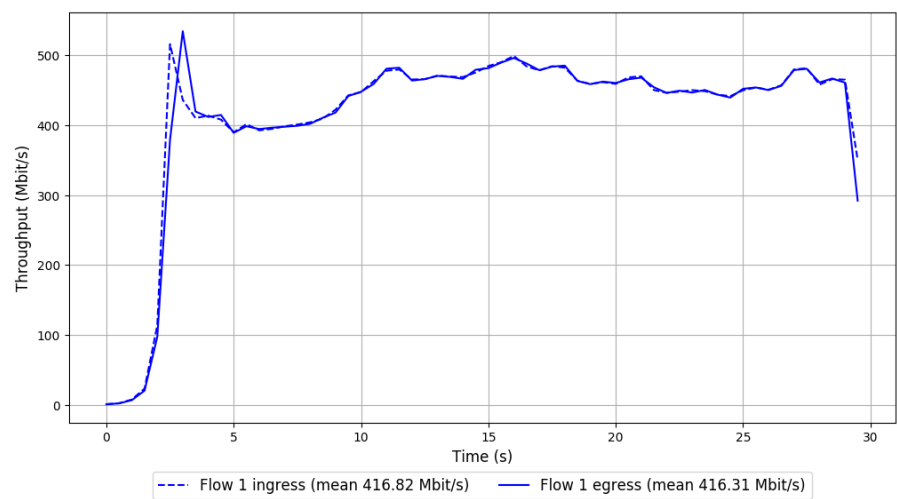
-- Flow 1:

Average throughput: 416.31 Mbit/s

95th percentile per-packet one-way delay: 51.916 ms

Loss rate: 0.46%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-16 07:50:44

End at: 2018-02-16 07:51:14

Below is generated by plot.py at 2018-02-16 12:37:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 406.31 Mbit/s

95th percentile per-packet one-way delay: 53.184 ms

Loss rate: 0.40%

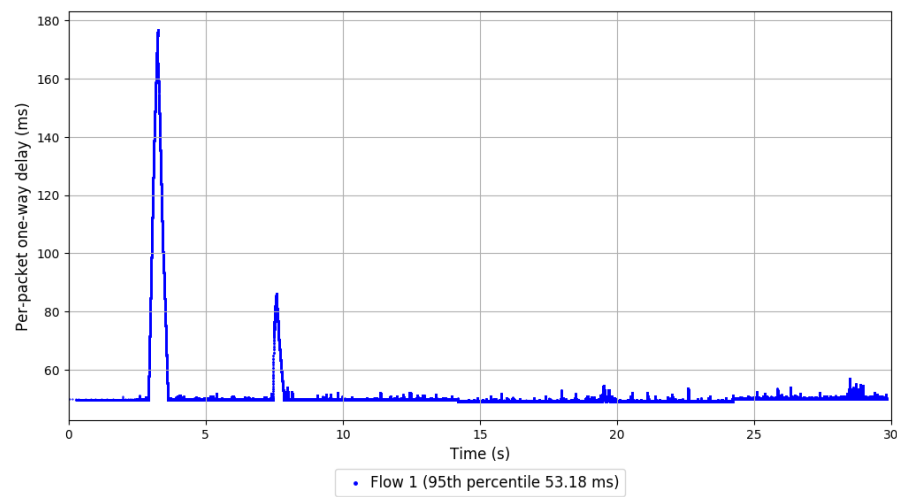
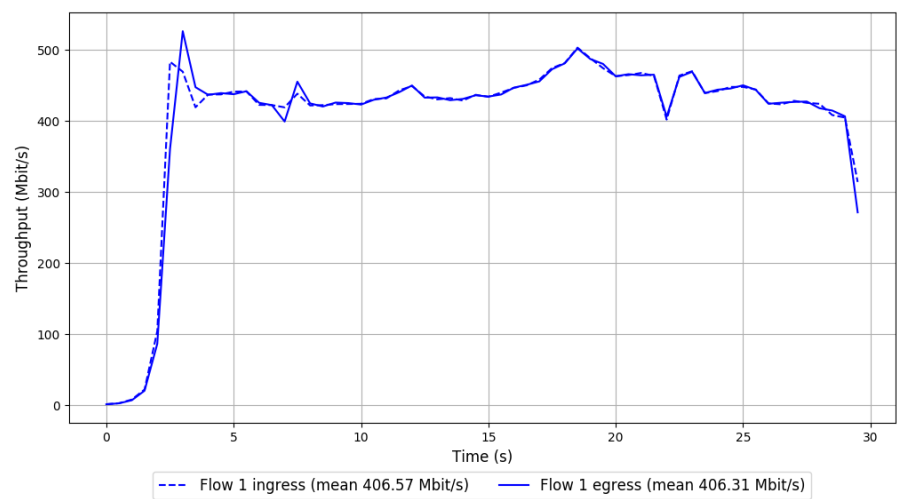
-- Flow 1:

Average throughput: 406.31 Mbit/s

95th percentile per-packet one-way delay: 53.184 ms

Loss rate: 0.40%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-16 08:05:31

End at: 2018-02-16 08:06:01

Below is generated by plot.py at 2018-02-16 12:38:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 388.40 Mbit/s

95th percentile per-packet one-way delay: 61.954 ms

Loss rate: 0.44%

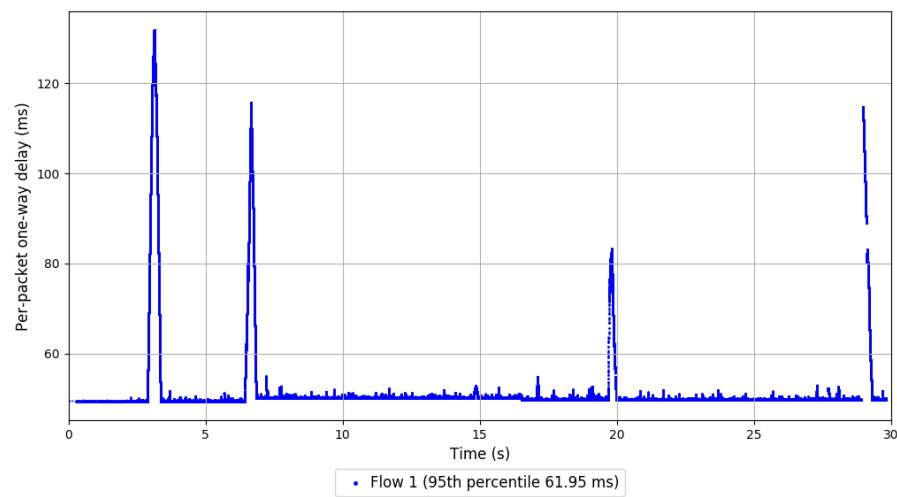
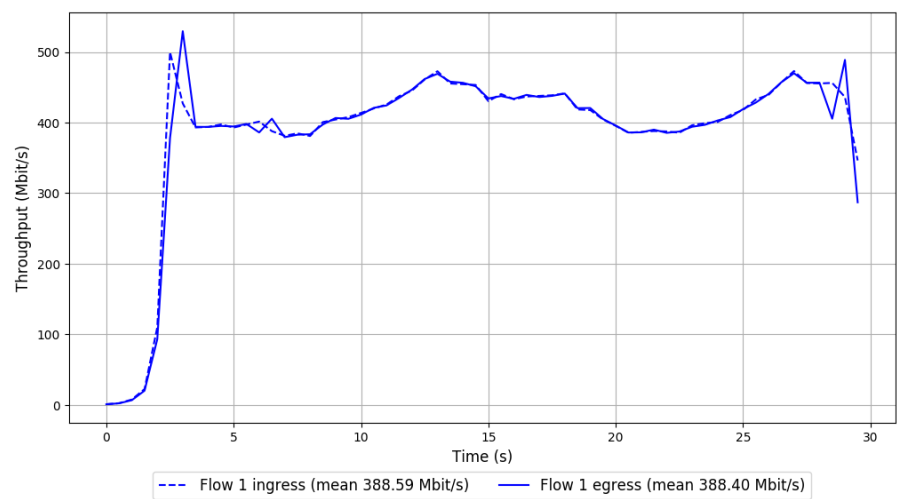
-- Flow 1:

Average throughput: 388.40 Mbit/s

95th percentile per-packet one-way delay: 61.954 ms

Loss rate: 0.44%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-16 08:20:24

End at: 2018-02-16 08:20:54

Below is generated by plot.py at 2018-02-16 12:39:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 403.59 Mbit/s

95th percentile per-packet one-way delay: 53.501 ms

Loss rate: 0.41%

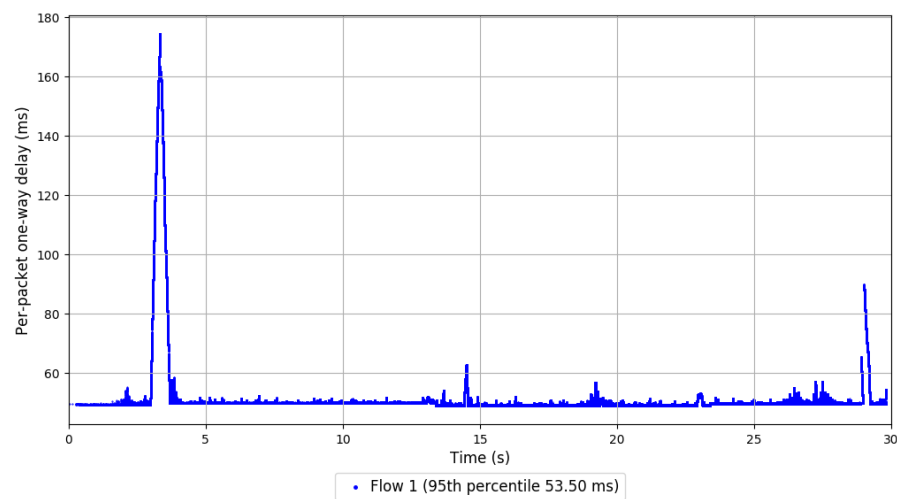
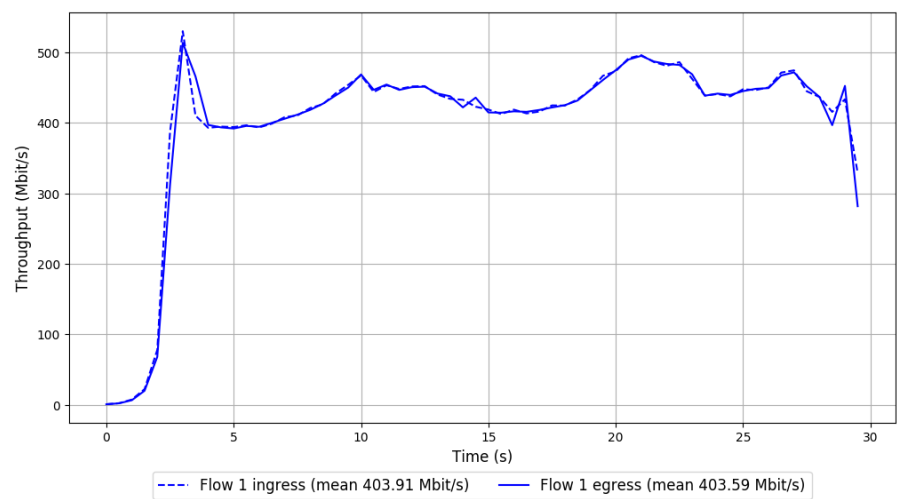
-- Flow 1:

Average throughput: 403.59 Mbit/s

95th percentile per-packet one-way delay: 53.501 ms

Loss rate: 0.41%

Run 10: Report of Vivace-latency — Data Link

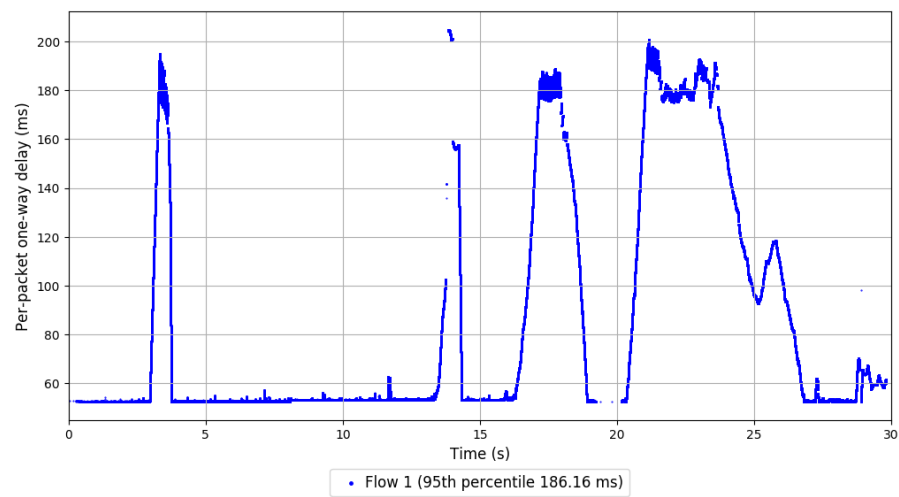
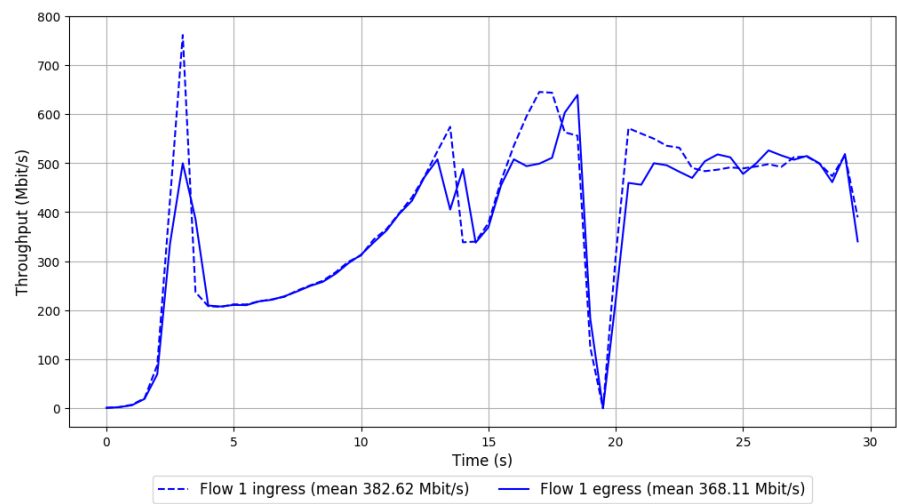


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-16 06:15:20
End at: 2018-02-16 06:15:50

# Below is generated by plot.py at 2018-02-16 12:39:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 368.11 Mbit/s
95th percentile per-packet one-way delay: 186.156 ms
Loss rate: 4.13%
-- Flow 1:
Average throughput: 368.11 Mbit/s
95th percentile per-packet one-way delay: 186.156 ms
Loss rate: 4.13%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-16 06:30:19

End at: 2018-02-16 06:30:49

Below is generated by plot.py at 2018-02-16 12:39:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 369.02 Mbit/s

95th percentile per-packet one-way delay: 175.731 ms

Loss rate: 4.75%

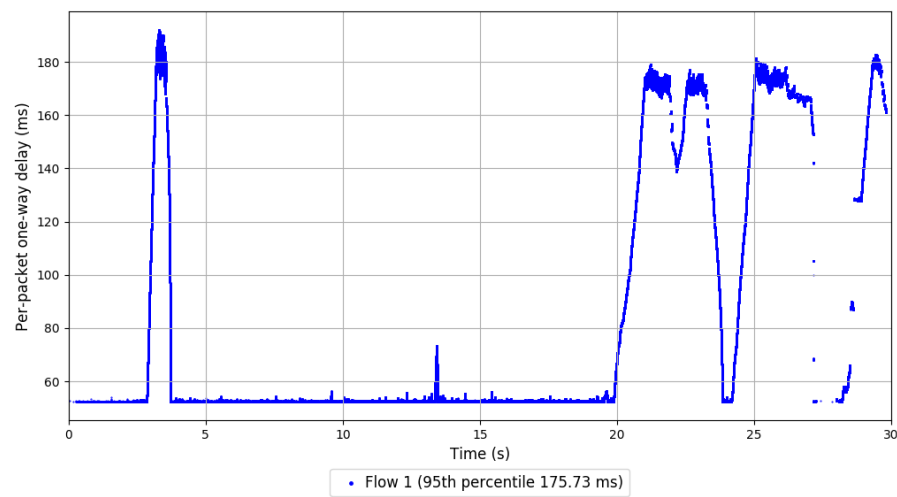
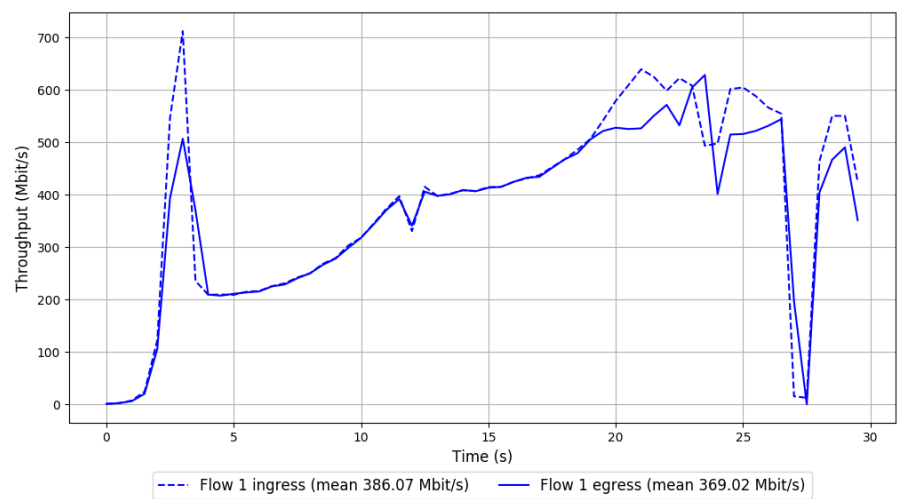
-- Flow 1:

Average throughput: 369.02 Mbit/s

95th percentile per-packet one-way delay: 175.731 ms

Loss rate: 4.75%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-16 06:45:03

End at: 2018-02-16 06:45:33

Below is generated by plot.py at 2018-02-16 12:42:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 454.41 Mbit/s

95th percentile per-packet one-way delay: 176.522 ms

Loss rate: 2.43%

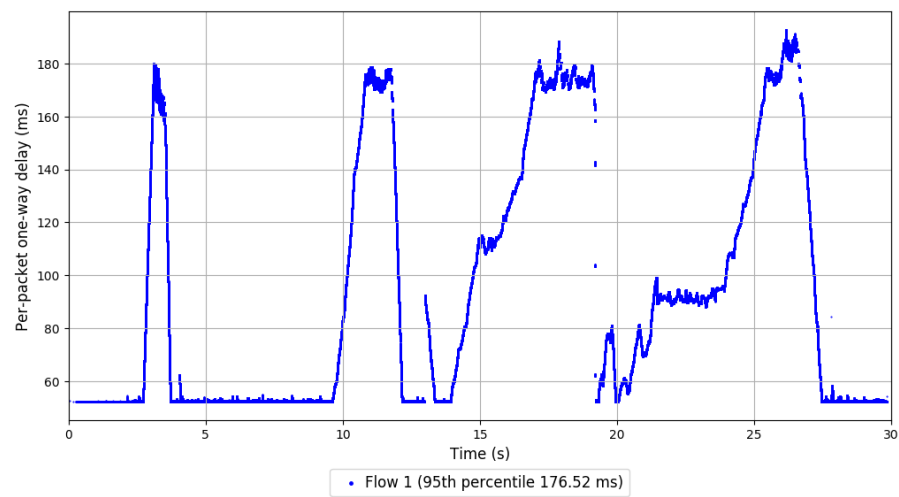
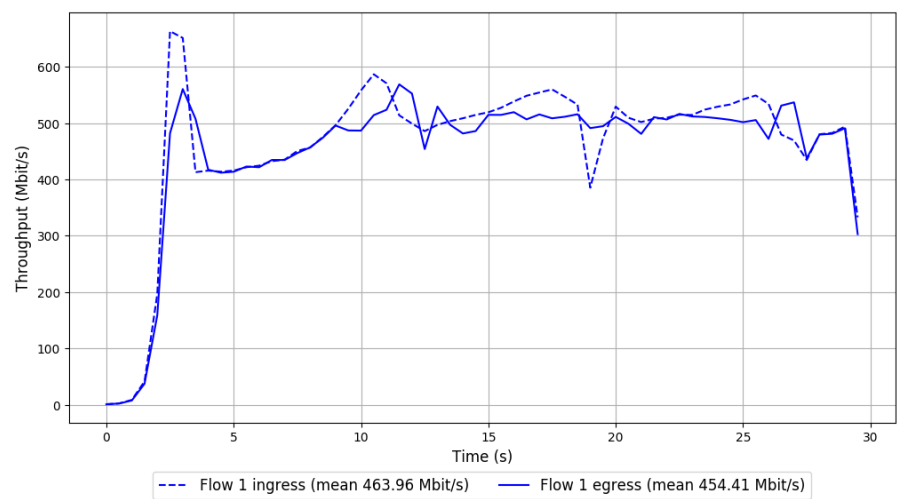
-- Flow 1:

Average throughput: 454.41 Mbit/s

95th percentile per-packet one-way delay: 176.522 ms

Loss rate: 2.43%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-16 06:59:45

End at: 2018-02-16 07:00:15

Below is generated by plot.py at 2018-02-16 12:42:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 372.78 Mbit/s

95th percentile per-packet one-way delay: 175.356 ms

Loss rate: 1.95%

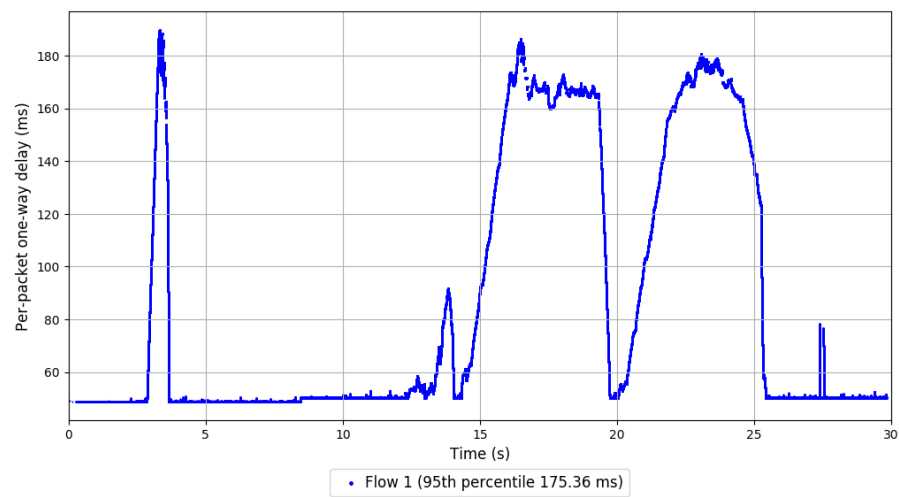
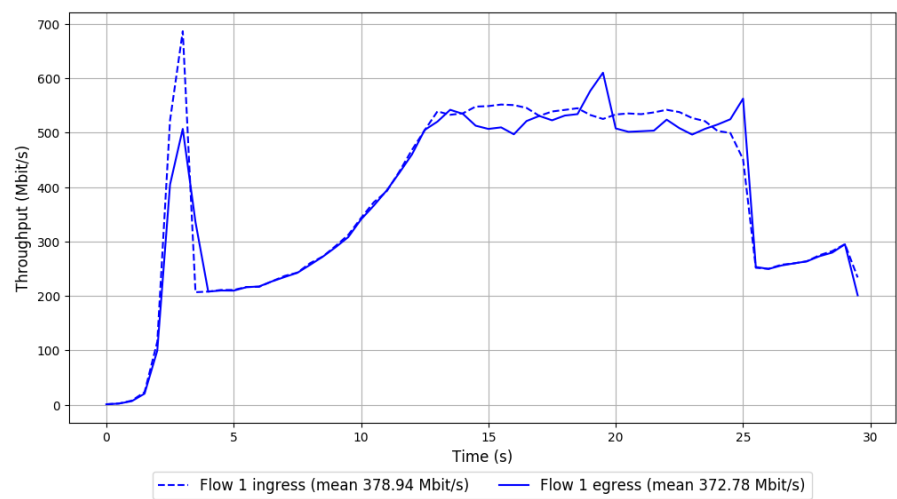
-- Flow 1:

Average throughput: 372.78 Mbit/s

95th percentile per-packet one-way delay: 175.356 ms

Loss rate: 1.95%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-16 07:14:51

End at: 2018-02-16 07:15:21

Below is generated by plot.py at 2018-02-16 12:43:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 345.56 Mbit/s

95th percentile per-packet one-way delay: 191.168 ms

Loss rate: 8.84%

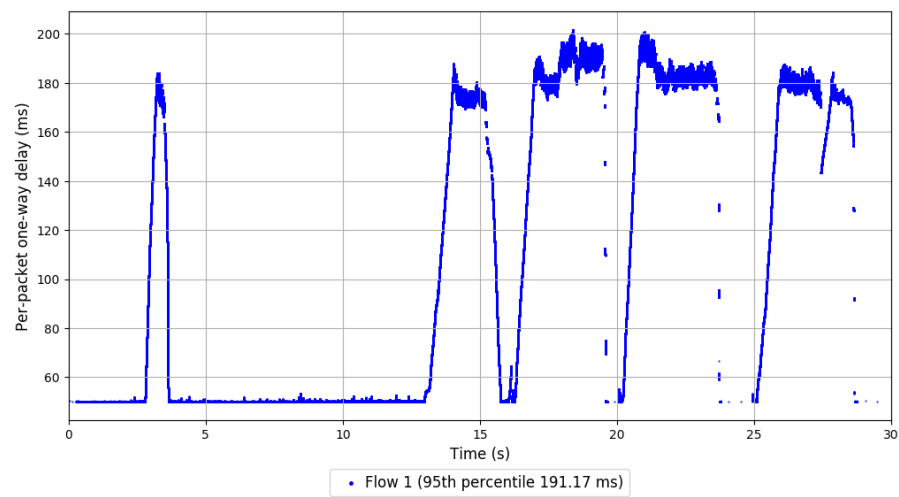
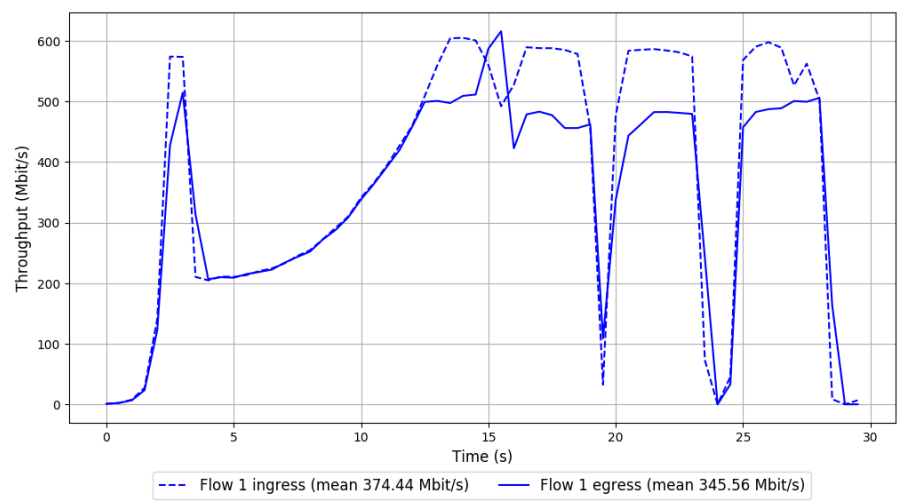
-- Flow 1:

Average throughput: 345.56 Mbit/s

95th percentile per-packet one-way delay: 191.168 ms

Loss rate: 8.84%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-16 07:29:29

End at: 2018-02-16 07:29:59

Below is generated by plot.py at 2018-02-16 12:45:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 381.61 Mbit/s

95th percentile per-packet one-way delay: 189.176 ms

Loss rate: 6.31%

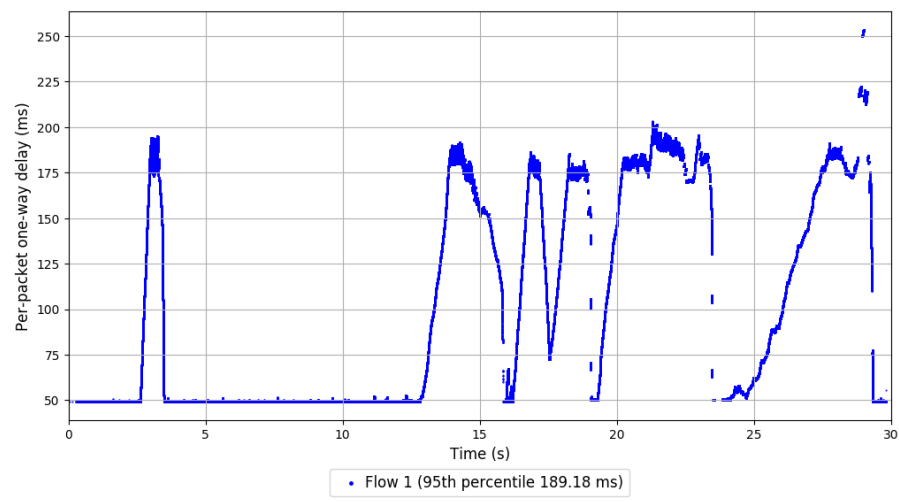
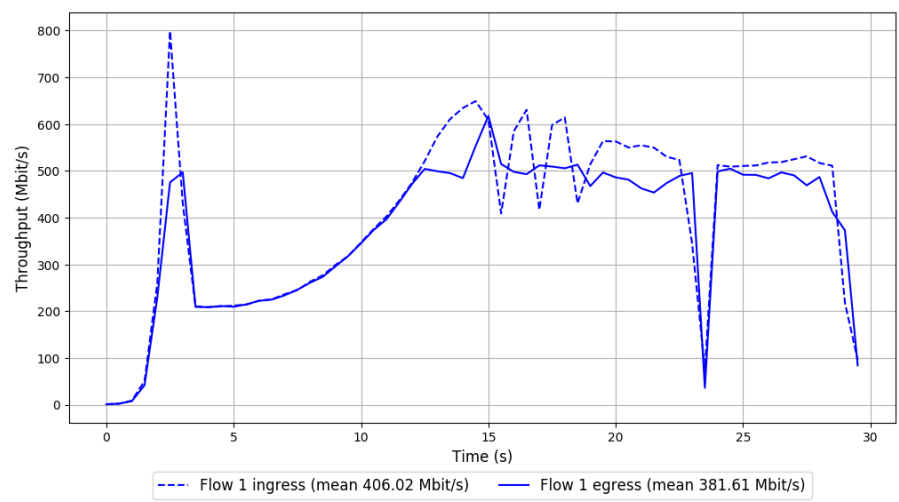
-- Flow 1:

Average throughput: 381.61 Mbit/s

95th percentile per-packet one-way delay: 189.176 ms

Loss rate: 6.31%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-16 07:44:22

End at: 2018-02-16 07:44:52

Below is generated by plot.py at 2018-02-16 12:47:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 461.62 Mbit/s

95th percentile per-packet one-way delay: 175.657 ms

Loss rate: 3.80%

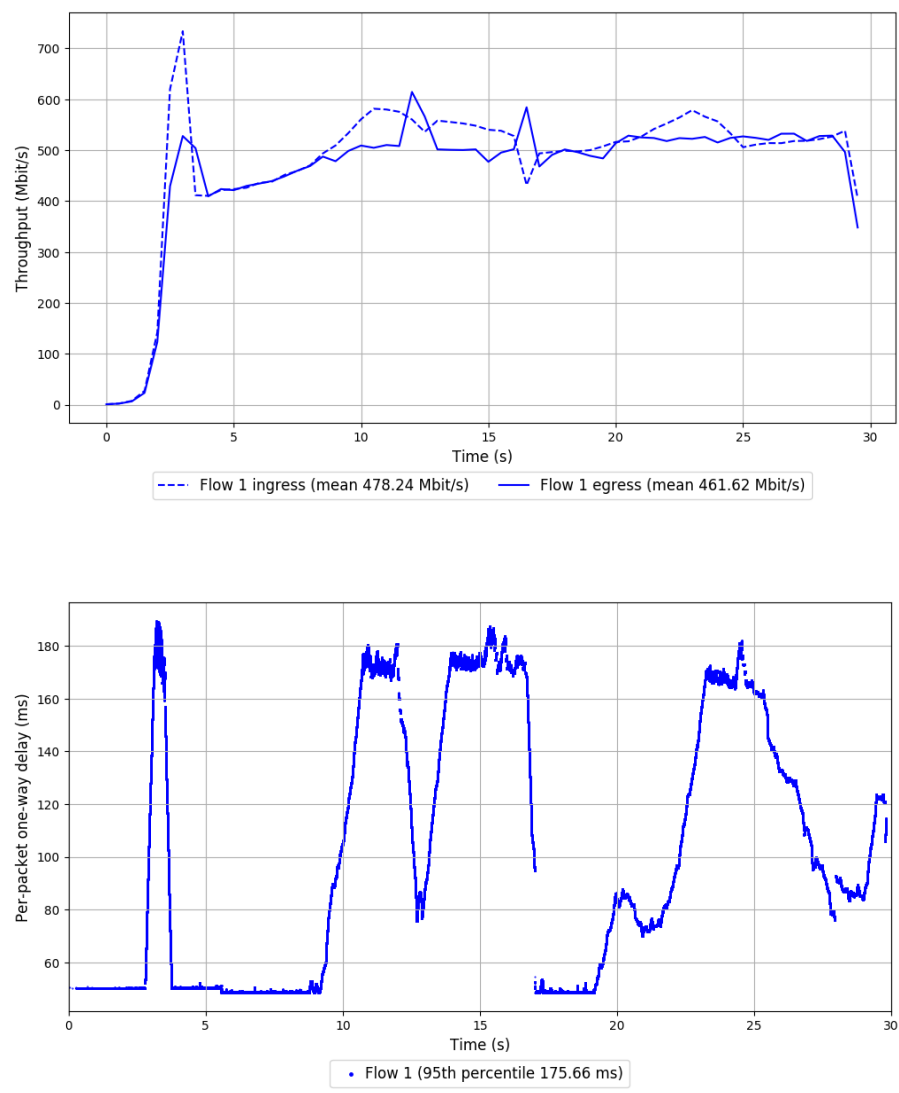
-- Flow 1:

Average throughput: 461.62 Mbit/s

95th percentile per-packet one-way delay: 175.657 ms

Loss rate: 3.80%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-16 07:59:12

End at: 2018-02-16 07:59:43

Below is generated by plot.py at 2018-02-16 12:47:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 379.97 Mbit/s

95th percentile per-packet one-way delay: 177.949 ms

Loss rate: 4.55%

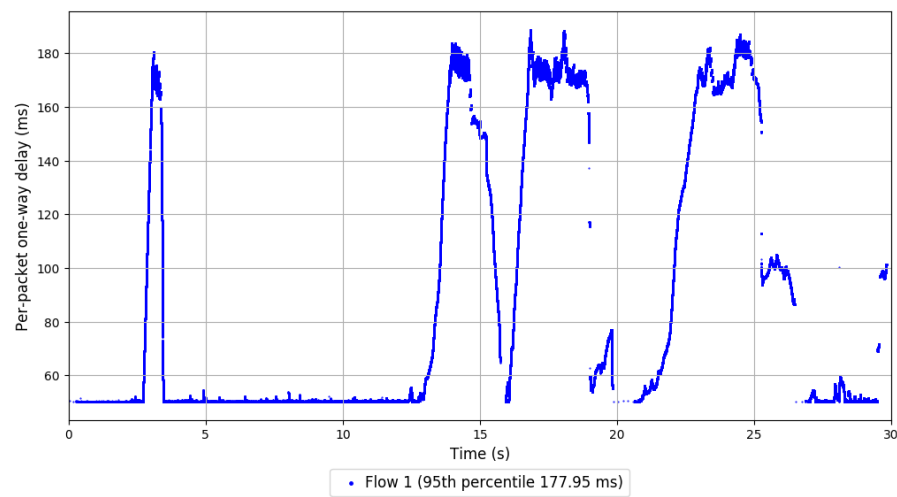
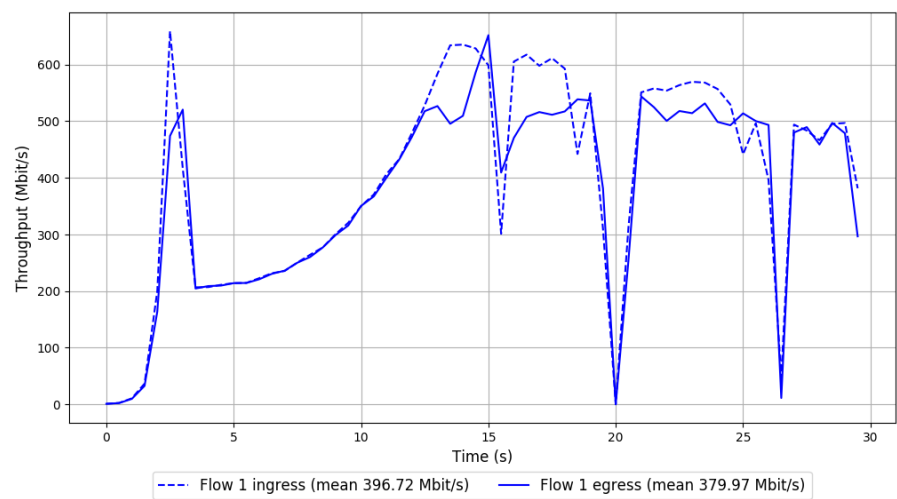
-- Flow 1:

Average throughput: 379.97 Mbit/s

95th percentile per-packet one-way delay: 177.949 ms

Loss rate: 4.55%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-16 08:14:06

End at: 2018-02-16 08:14:36

Below is generated by plot.py at 2018-02-16 12:47:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 393.49 Mbit/s

95th percentile per-packet one-way delay: 176.970 ms

Loss rate: 4.17%

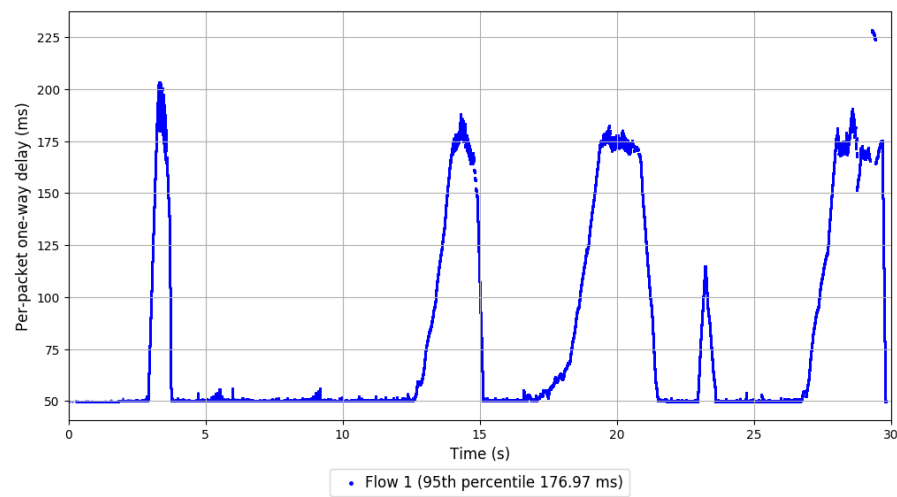
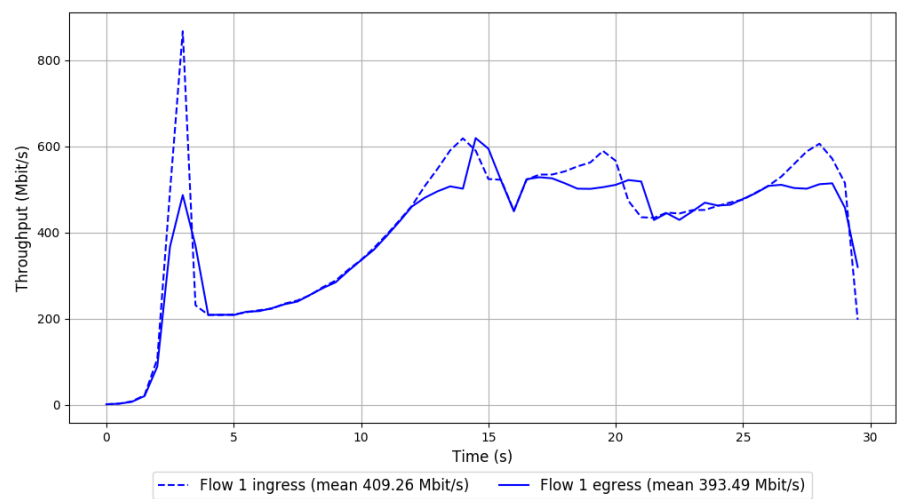
-- Flow 1:

Average throughput: 393.49 Mbit/s

95th percentile per-packet one-way delay: 176.970 ms

Loss rate: 4.17%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-16 08:29:03

End at: 2018-02-16 08:29:33

Below is generated by plot.py at 2018-02-16 12:47:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 301.73 Mbit/s

95th percentile per-packet one-way delay: 184.253 ms

Loss rate: 5.69%

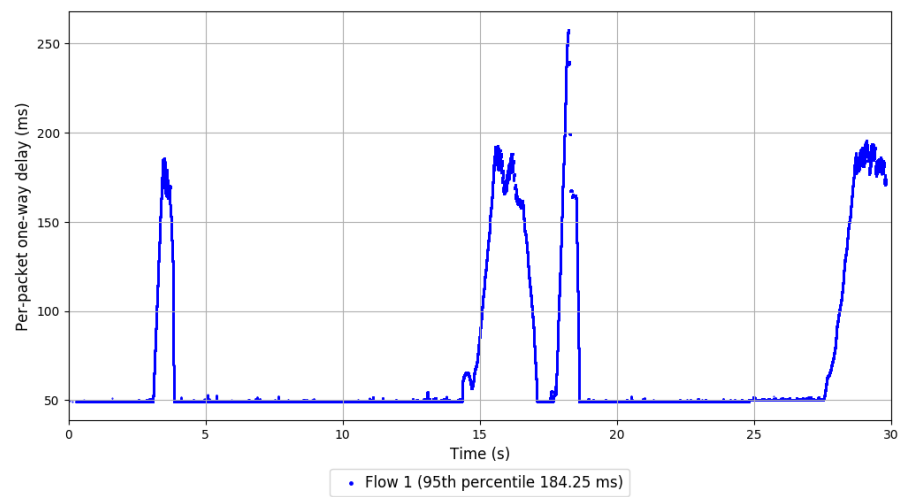
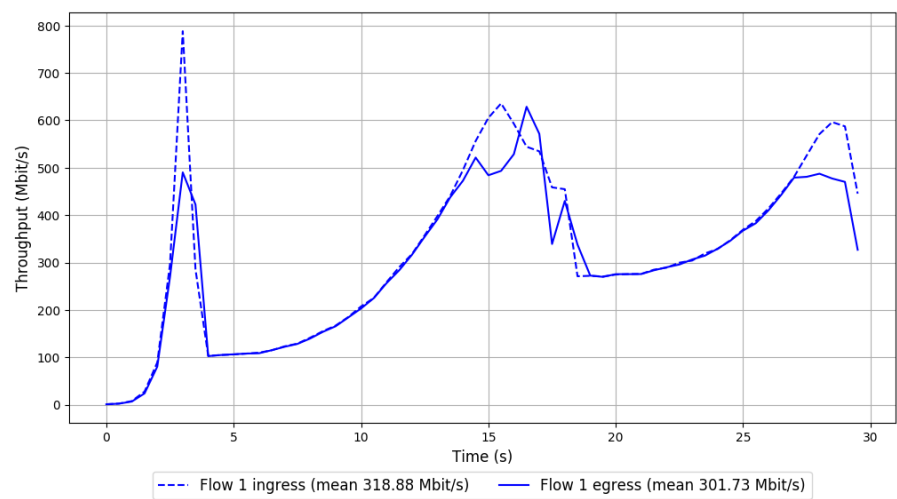
-- Flow 1:

Average throughput: 301.73 Mbit/s

95th percentile per-packet one-way delay: 184.253 ms

Loss rate: 5.69%

Run 10: Report of Vivace-loss — Data Link

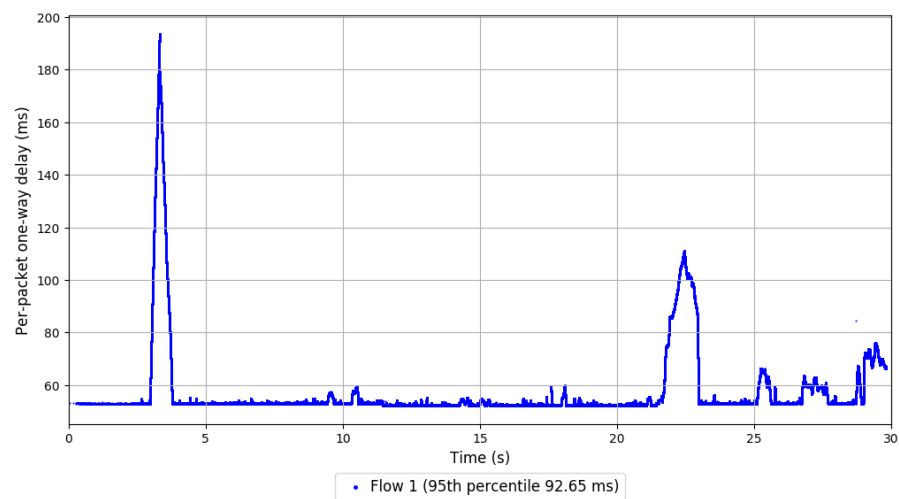
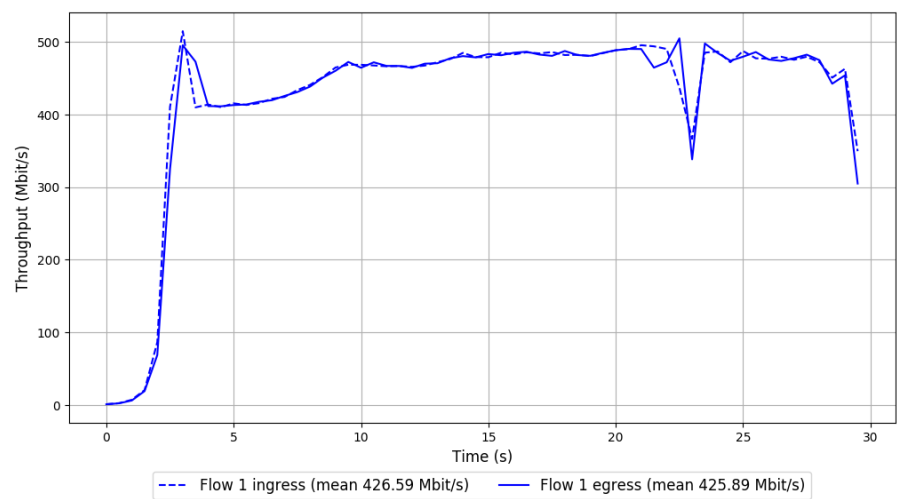


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-16 06:10:06
End at: 2018-02-16 06:10:36

# Below is generated by plot.py at 2018-02-16 12:48:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 425.89 Mbit/s
95th percentile per-packet one-way delay: 92.648 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 425.89 Mbit/s
95th percentile per-packet one-way delay: 92.648 ms
Loss rate: 0.51%
```

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-16 06:25:07

End at: 2018-02-16 06:25:37

Below is generated by plot.py at 2018-02-16 12:50:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 436.59 Mbit/s

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

Loss rate: 0.61%

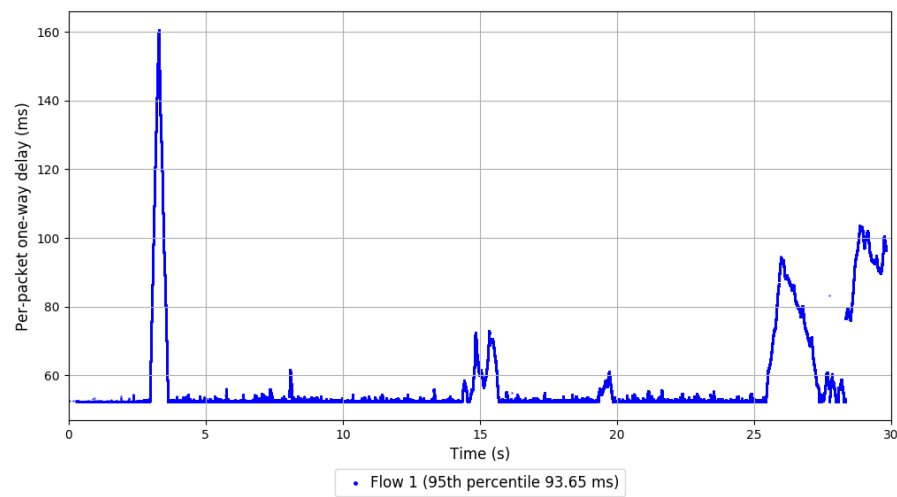
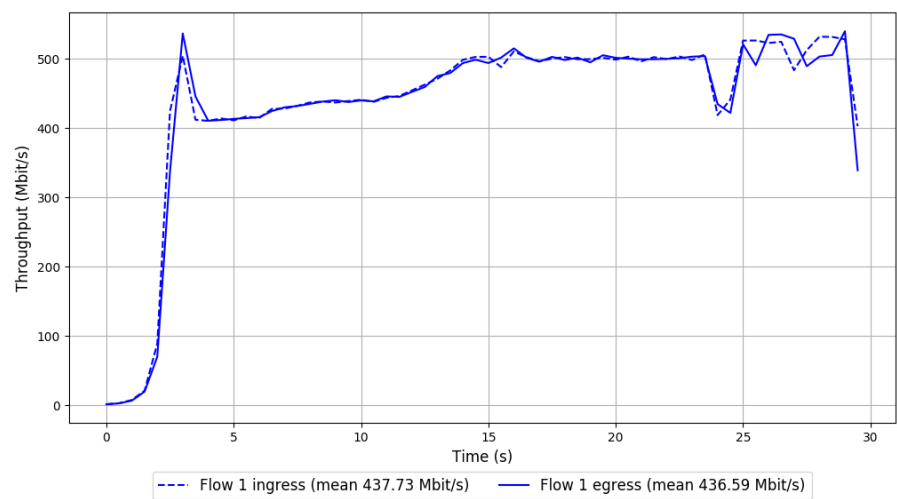
-- Flow 1:

Average throughput: 436.59 Mbit/s

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

Loss rate: 0.61%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-16 06:39:49

End at: 2018-02-16 06:40:19

Below is generated by plot.py at 2018-02-16 12:52:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 424.77 Mbit/s

95th percentile per-packet one-way delay: 73.993 ms

Loss rate: 0.45%

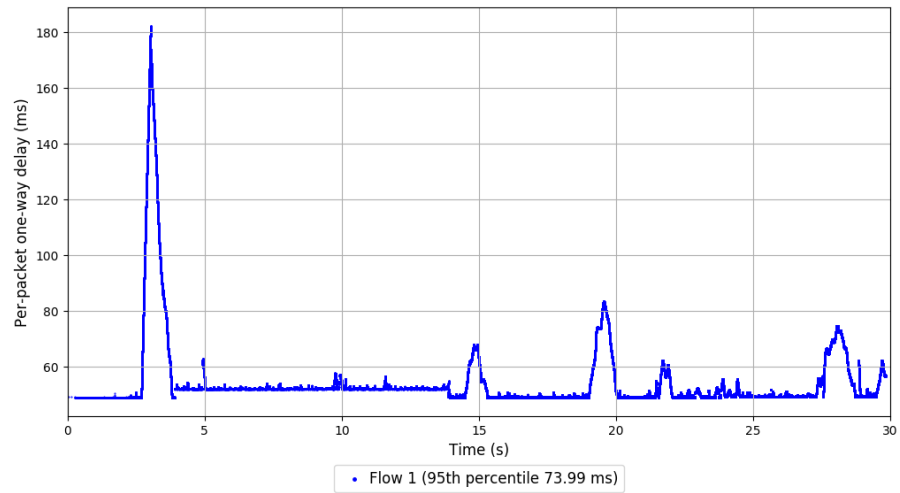
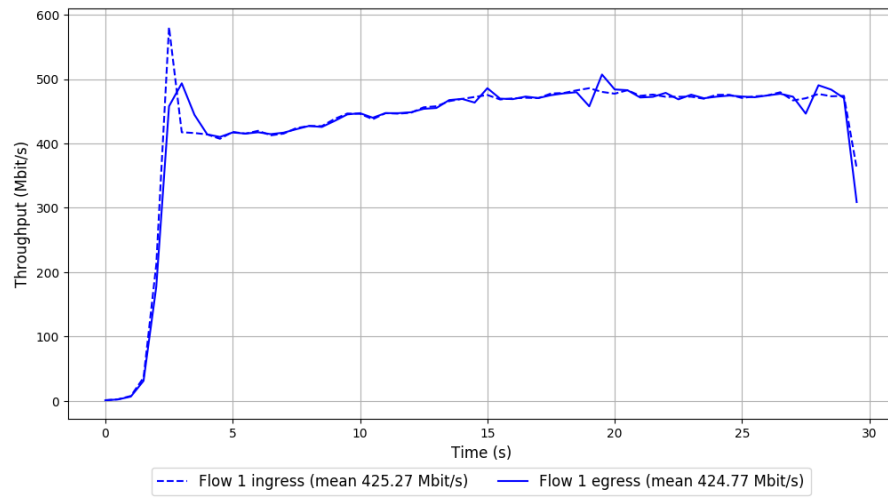
-- Flow 1:

Average throughput: 424.77 Mbit/s

95th percentile per-packet one-way delay: 73.993 ms

Loss rate: 0.45%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-16 06:54:39

End at: 2018-02-16 06:55:09

Below is generated by plot.py at 2018-02-16 12:53:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 419.23 Mbit/s

95th percentile per-packet one-way delay: 81.007 ms

Loss rate: 0.62%

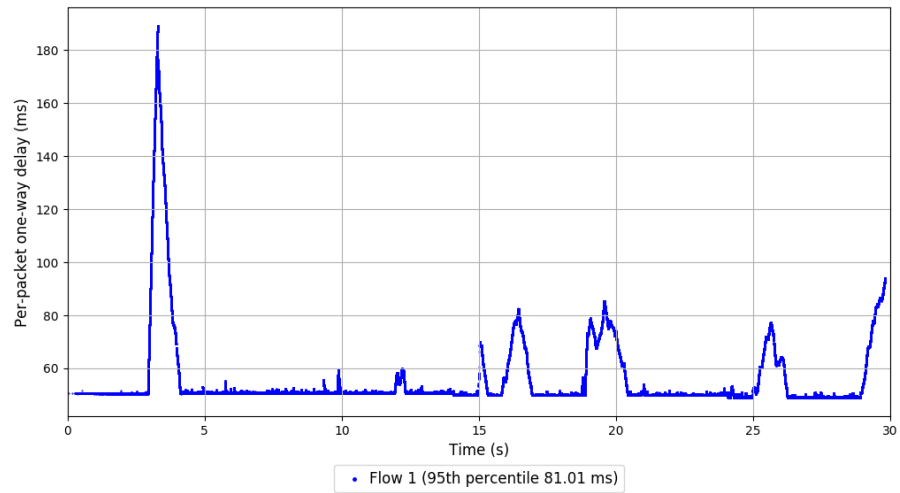
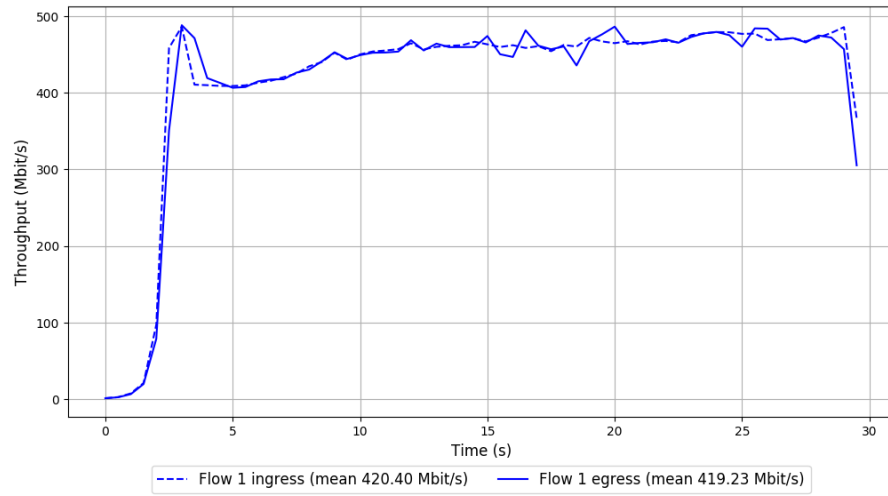
-- Flow 1:

Average throughput: 419.23 Mbit/s

95th percentile per-packet one-way delay: 81.007 ms

Loss rate: 0.62%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-16 07:09:34

End at: 2018-02-16 07:10:04

Below is generated by plot.py at 2018-02-16 12:53:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 449.32 Mbit/s

95th percentile per-packet one-way delay: 80.288 ms

Loss rate: 0.38%

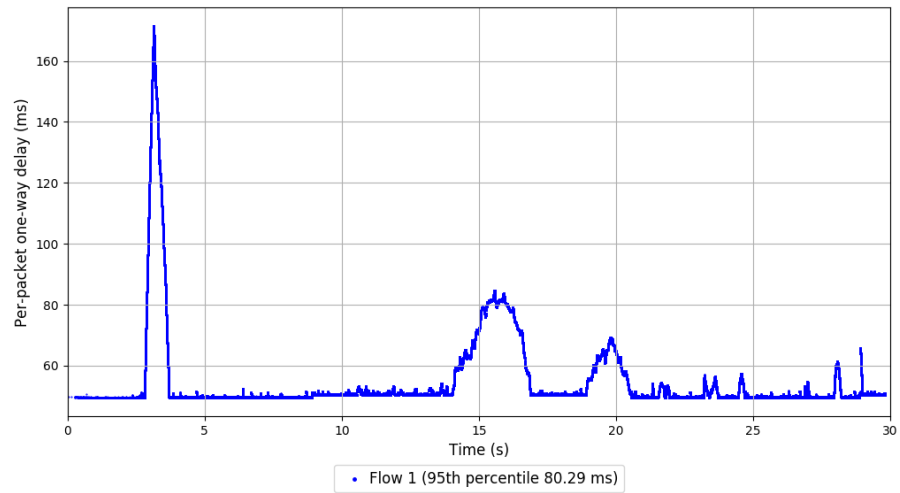
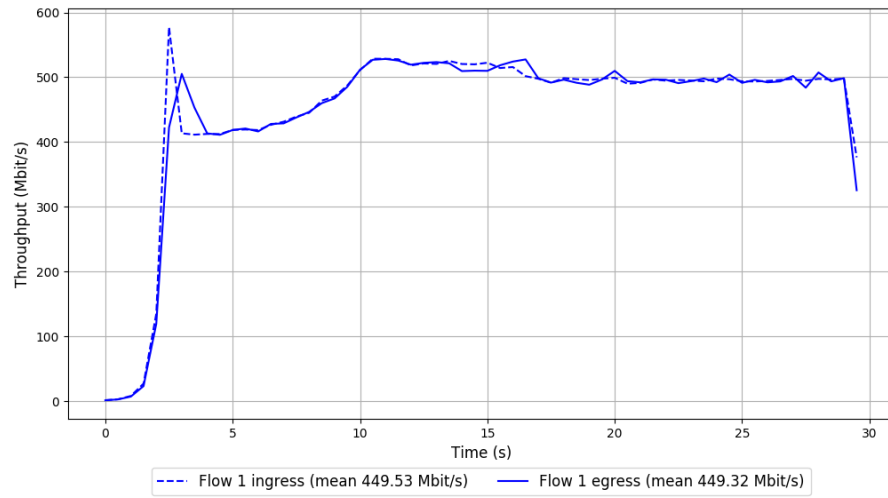
-- Flow 1:

Average throughput: 449.32 Mbit/s

95th percentile per-packet one-way delay: 80.288 ms

Loss rate: 0.38%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-16 07:24:20

End at: 2018-02-16 07:24:50

Below is generated by plot.py at 2018-02-16 12:54:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 438.94 Mbit/s

95th percentile per-packet one-way delay: 114.924 ms

Loss rate: 0.40%

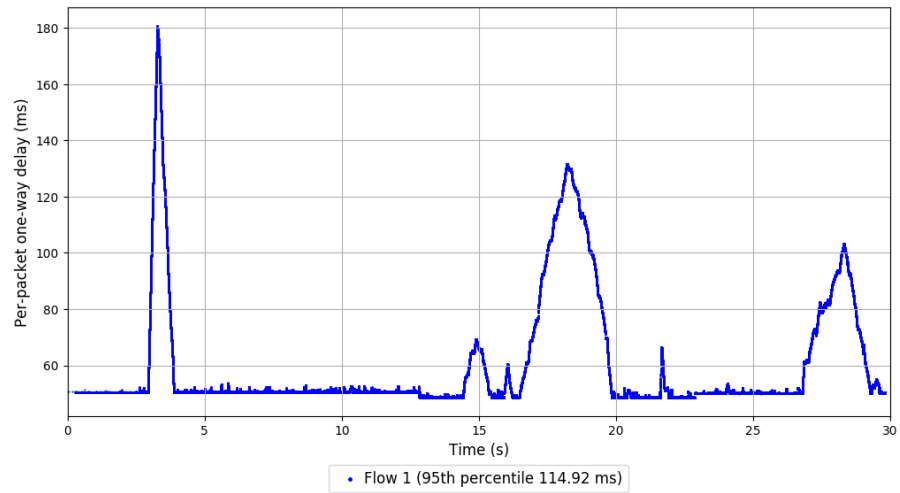
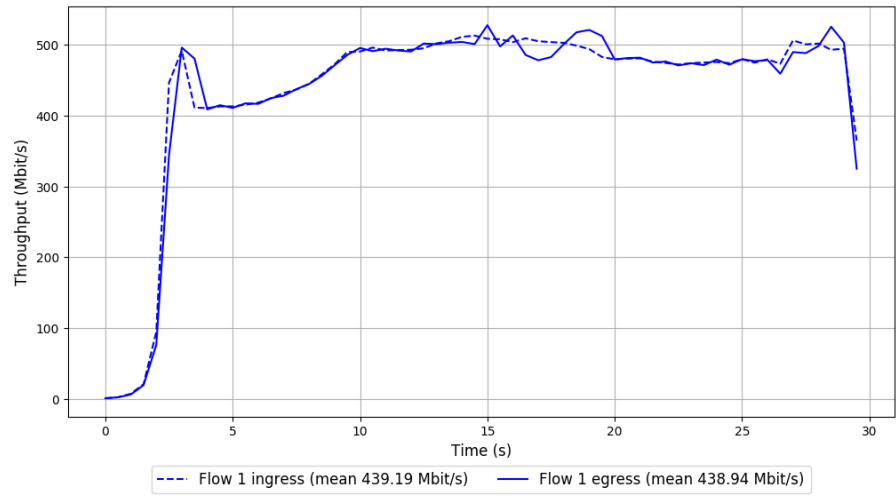
-- Flow 1:

Average throughput: 438.94 Mbit/s

95th percentile per-packet one-way delay: 114.924 ms

Loss rate: 0.40%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-16 07:39:06

End at: 2018-02-16 07:39:36

Below is generated by plot.py at 2018-02-16 12:54:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 429.15 Mbit/s

95th percentile per-packet one-way delay: 68.220 ms

Loss rate: 0.37%

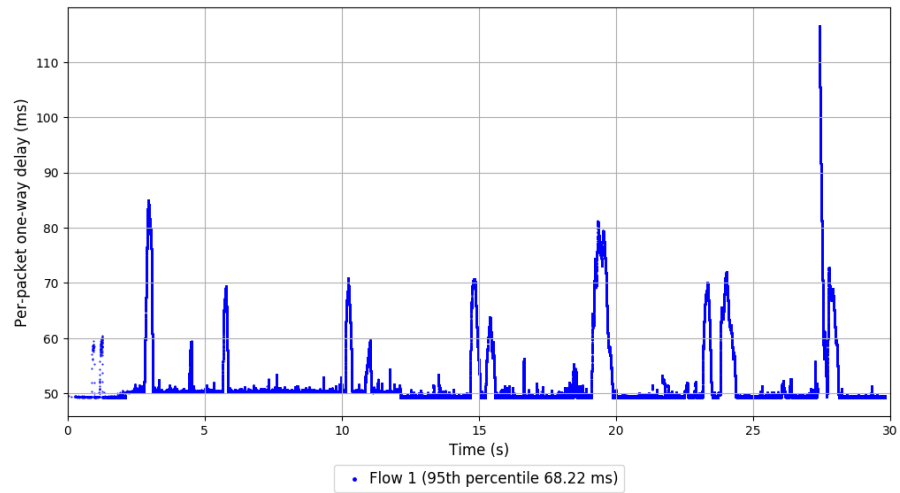
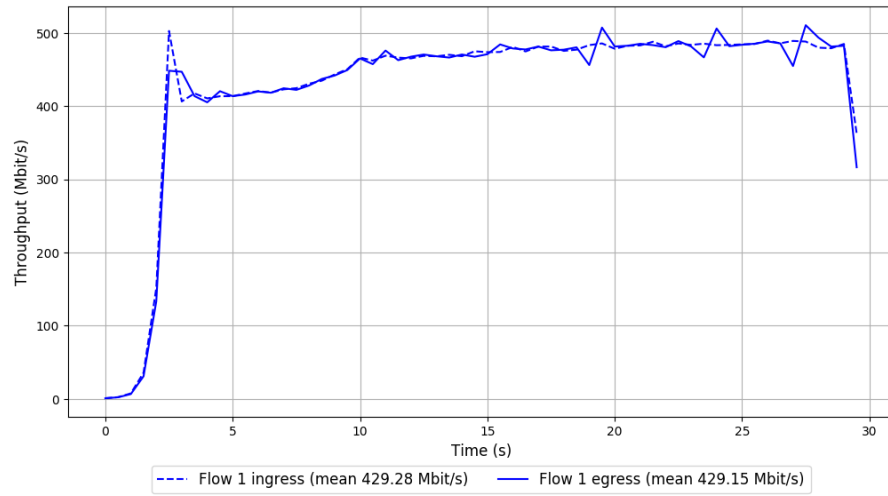
-- Flow 1:

Average throughput: 429.15 Mbit/s

95th percentile per-packet one-way delay: 68.220 ms

Loss rate: 0.37%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-16 07:54:12

End at: 2018-02-16 07:54:42

Below is generated by plot.py at 2018-02-16 12:54:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 423.67 Mbit/s

95th percentile per-packet one-way delay: 155.516 ms

Loss rate: 0.54%

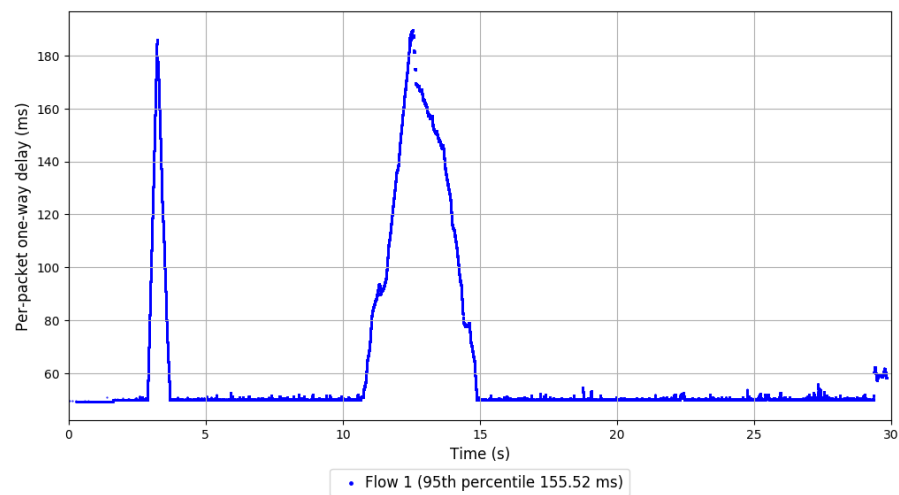
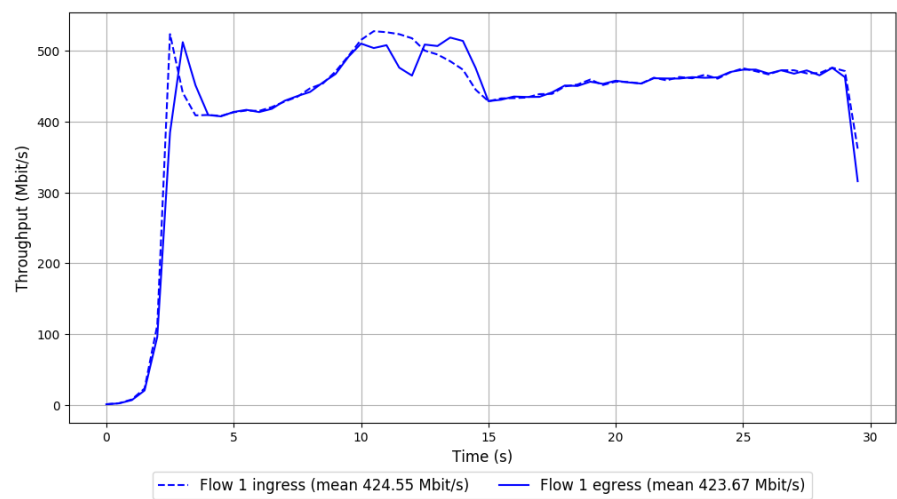
-- Flow 1:

Average throughput: 423.67 Mbit/s

95th percentile per-packet one-way delay: 155.516 ms

Loss rate: 0.54%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-16 08:08:53

End at: 2018-02-16 08:09:23

Below is generated by plot.py at 2018-02-16 12:54:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 433.97 Mbit/s

95th percentile per-packet one-way delay: 65.101 ms

Loss rate: 0.37%

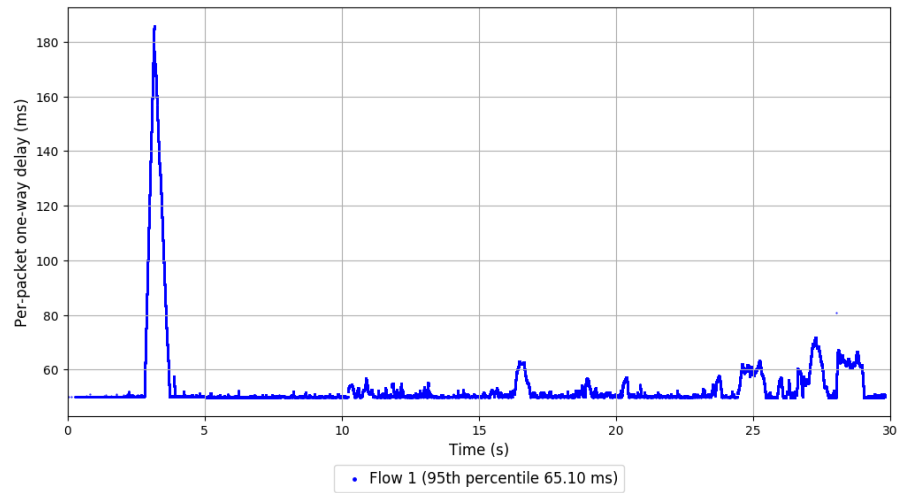
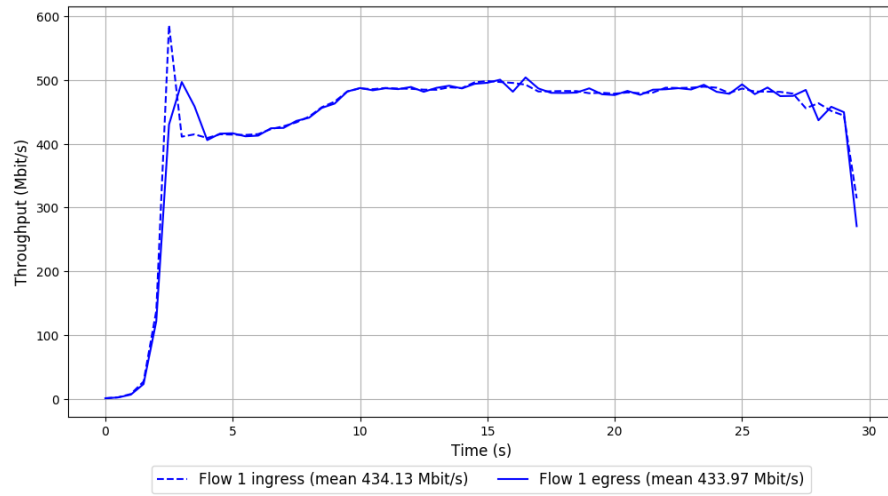
-- Flow 1:

Average throughput: 433.97 Mbit/s

95th percentile per-packet one-way delay: 65.101 ms

Loss rate: 0.37%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-16 08:23:51

End at: 2018-02-16 08:24:21

Below is generated by plot.py at 2018-02-16 12:54:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 431.84 Mbit/s

95th percentile per-packet one-way delay: 137.067 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 431.84 Mbit/s

95th percentile per-packet one-way delay: 137.067 ms

Loss rate: 0.43%

Run 10: Report of Vivace-LTE — Data Link

