

Pantheon Report

Generated at 2018-02-27 21:51:34 (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.

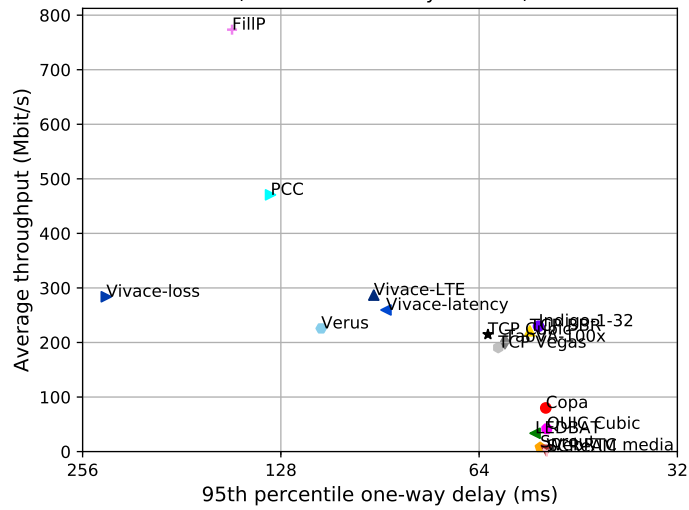
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

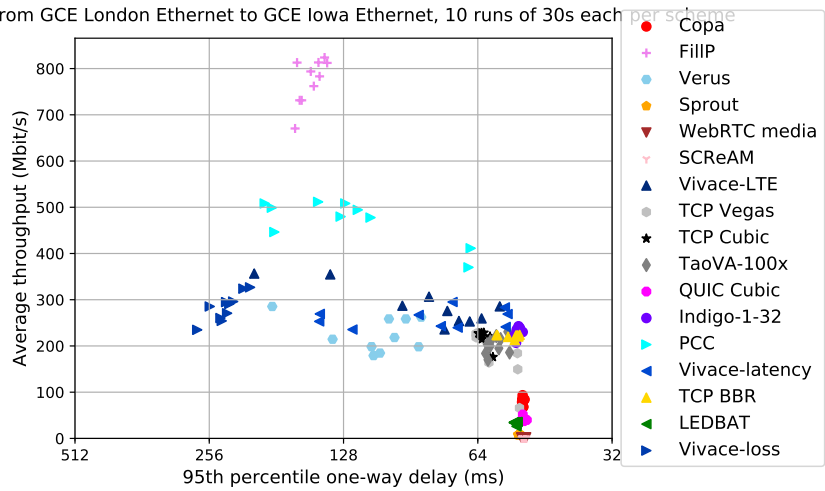
Git summary:

```
branch: master @ f12c42a2c63fdd9a862eefa0468859bf379b6623
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5ceec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
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	221.38	53.61	0.39
TCP Cubic	10	214.65	62.06	0.32
LEDBAT	10	33.55	52.64	0.64
PCC	10	470.67	132.70	1.49
QUIC Cubic	9	41.72	50.52	0.50
SCReAM	10	0.22	50.52	0.34
WebRTC media	10	2.22	50.62	0.44
Sprout	10	7.90	51.71	0.38
TaoVA-100x	10	201.42	58.48	0.42
TCP Vegas	10	190.60	59.86	0.30
Verus	10	225.79	111.18	2.37
Copa	10	80.02	50.70	0.22
FillP	10	773.44	151.82	13.32
Indigo-1-32	10	229.76	51.99	0.36
Vivace-latency	10	259.62	88.64	0.65
Vivace-loss	10	283.80	235.64	8.91
Vivace-LTE	10	286.92	92.49	0.58

Run 1: Statistics of TCP BBR

Start at: 2018-02-27 14:36:31

End at: 2018-02-27 14:37:01

Below is generated by plot.py at 2018-02-27 19:41:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.56 Mbit/s

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

Loss rate: 0.40%

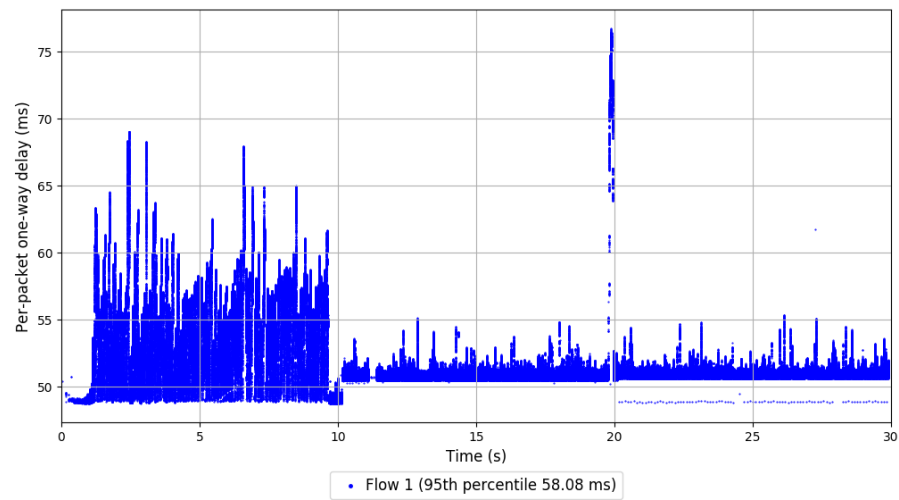
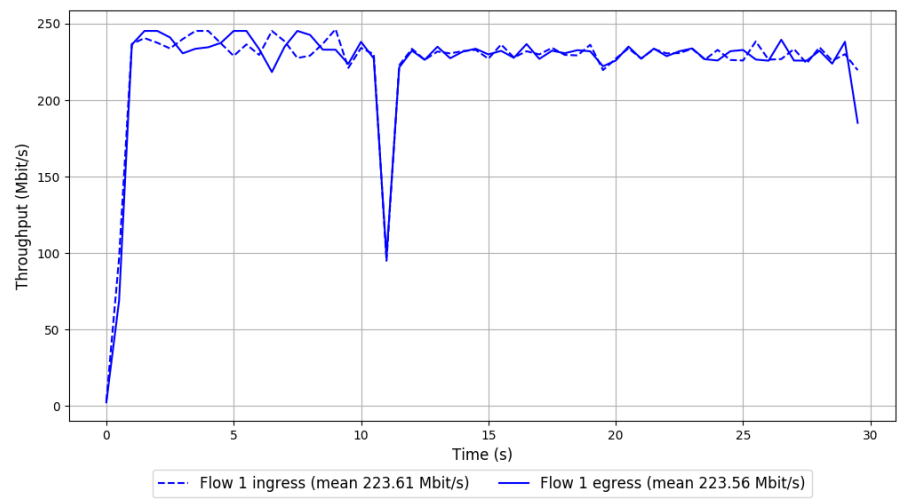
-- Flow 1:

Average throughput: 223.56 Mbit/s

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

Loss rate: 0.40%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-27 14:51:16

End at: 2018-02-27 14:51:46

Below is generated by plot.py at 2018-02-27 19:41:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.21 Mbit/s

95th percentile per-packet one-way delay: 52.012 ms

Loss rate: 0.34%

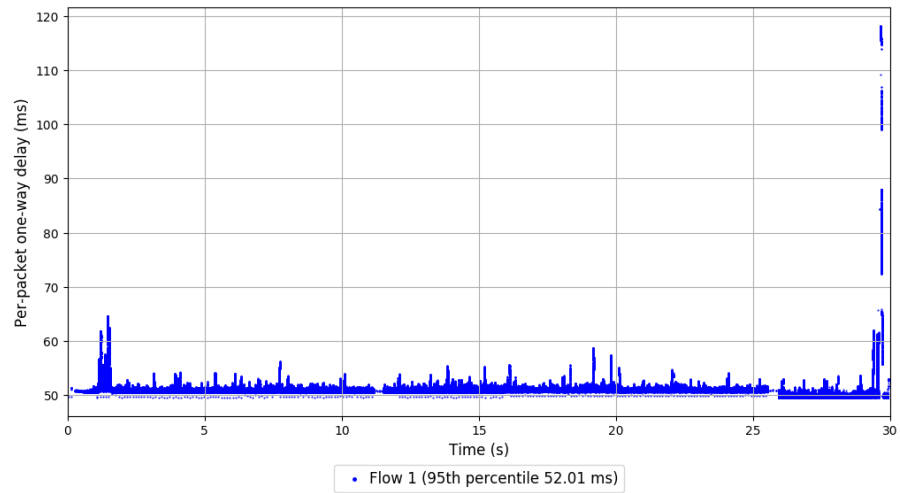
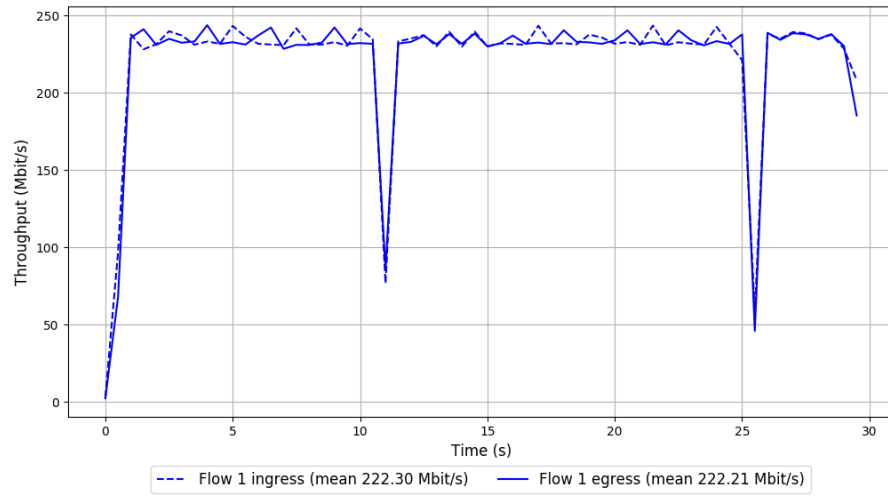
-- Flow 1:

Average throughput: 222.21 Mbit/s

95th percentile per-packet one-way delay: 52.012 ms

Loss rate: 0.34%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-27 15:05:54

End at: 2018-02-27 15:06:24

Below is generated by plot.py at 2018-02-27 19:41:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.08 Mbit/s

95th percentile per-packet one-way delay: 52.244 ms

Loss rate: 0.35%

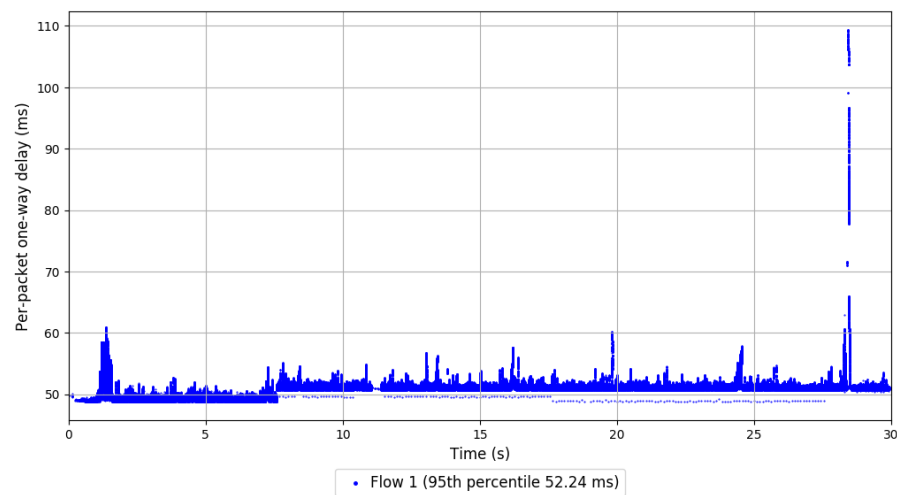
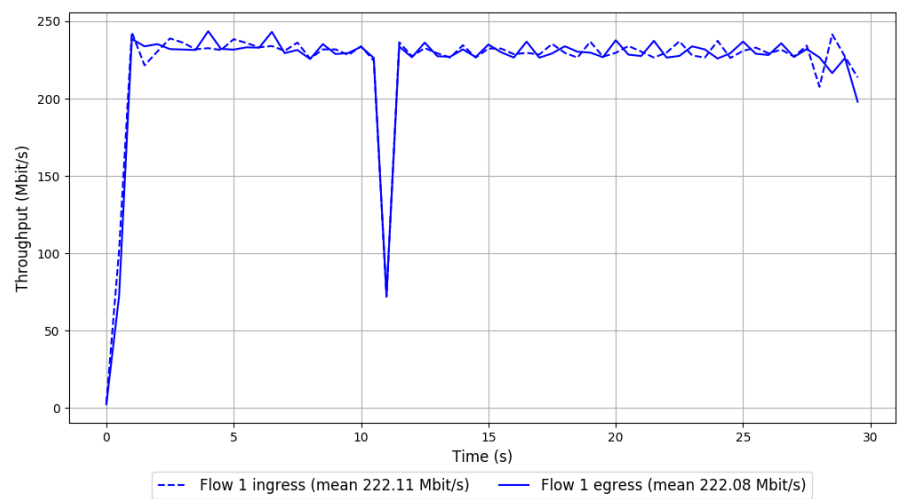
-- Flow 1:

Average throughput: 222.08 Mbit/s

95th percentile per-packet one-way delay: 52.244 ms

Loss rate: 0.35%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-27 15:20:34

End at: 2018-02-27 15:21:04

Below is generated by plot.py at 2018-02-27 19:41:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.72 Mbit/s

95th percentile per-packet one-way delay: 52.571 ms

Loss rate: 0.36%

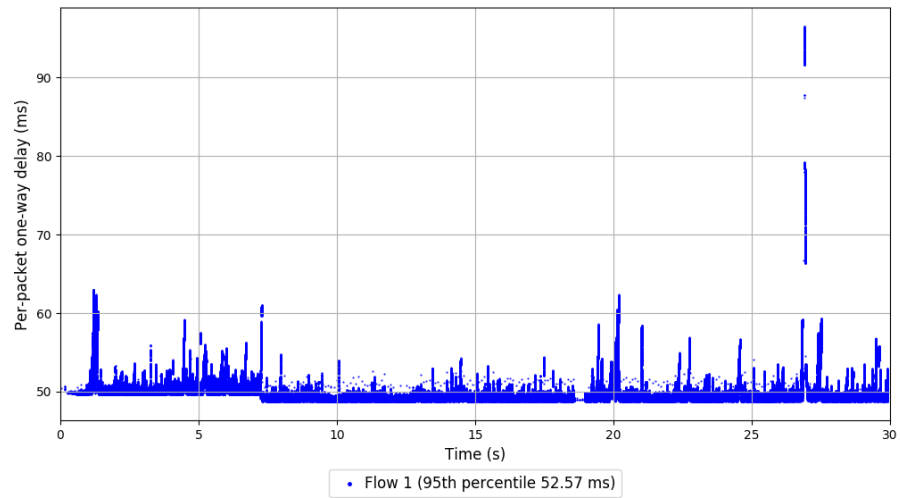
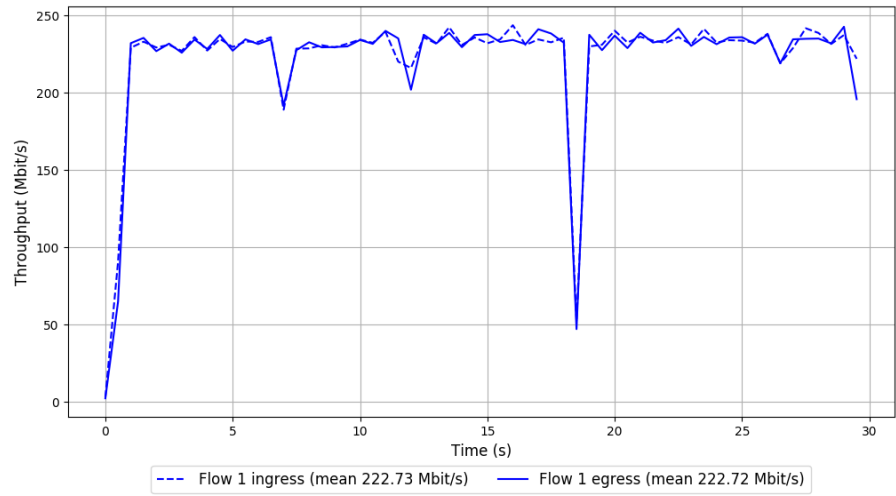
-- Flow 1:

Average throughput: 222.72 Mbit/s

95th percentile per-packet one-way delay: 52.571 ms

Loss rate: 0.36%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-27 15:35:16

End at: 2018-02-27 15:35:46

Below is generated by plot.py at 2018-02-27 19:41:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.53 Mbit/s

95th percentile per-packet one-way delay: 57.878 ms

Loss rate: 0.37%

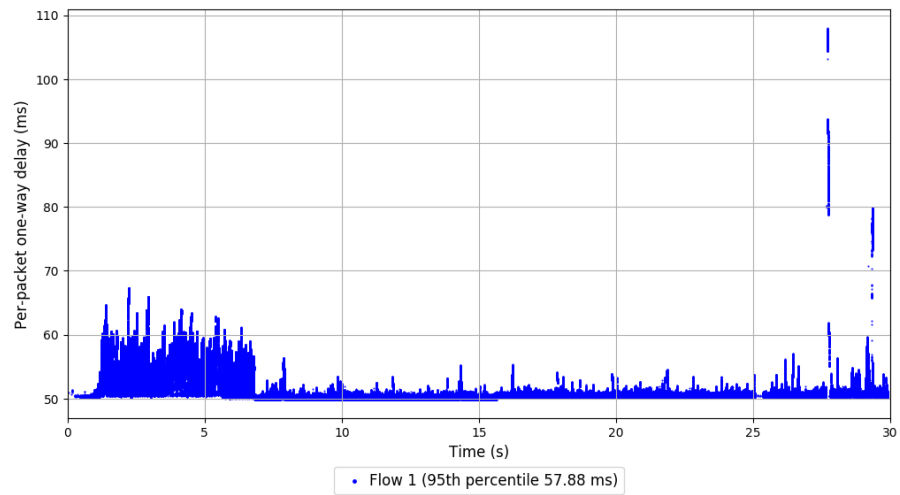
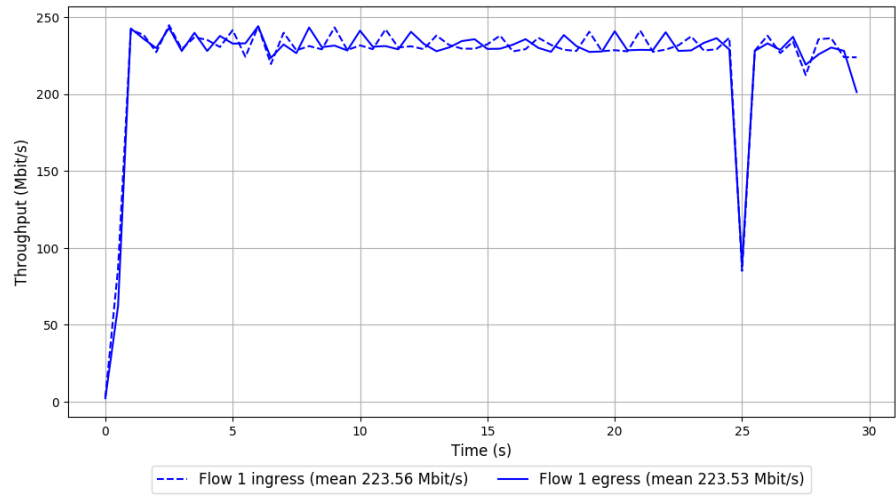
-- Flow 1:

Average throughput: 223.53 Mbit/s

95th percentile per-packet one-way delay: 57.878 ms

Loss rate: 0.37%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-27 15:49:55

End at: 2018-02-27 15:50:25

Below is generated by plot.py at 2018-02-27 19:41:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.48 Mbit/s

95th percentile per-packet one-way delay: 51.897 ms

Loss rate: 0.35%

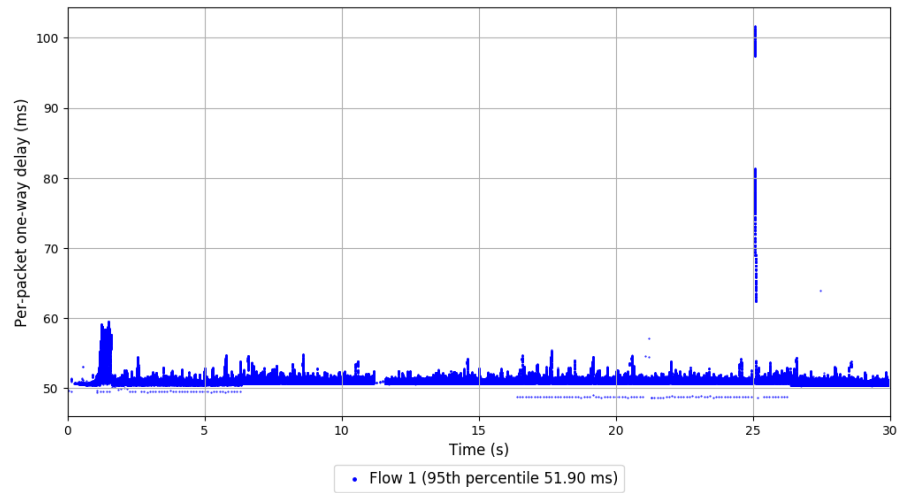
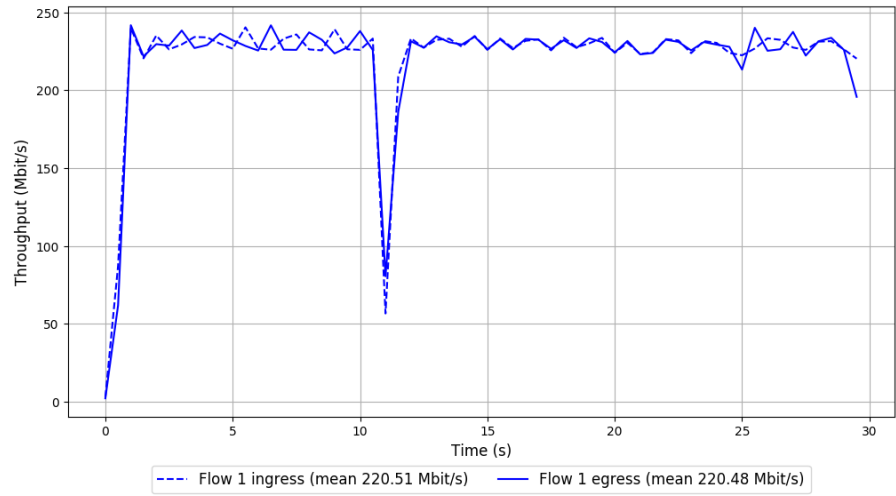
-- Flow 1:

Average throughput: 220.48 Mbit/s

95th percentile per-packet one-way delay: 51.897 ms

Loss rate: 0.35%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-27 16:04:38

End at: 2018-02-27 16:05:08

Below is generated by plot.py at 2018-02-27 19:41:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.57 Mbit/s

95th percentile per-packet one-way delay: 54.728 ms

Loss rate: 0.71%

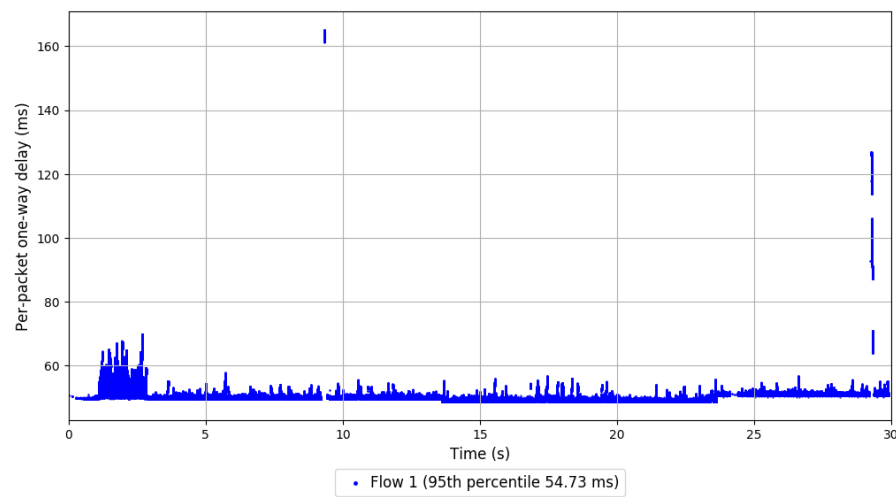
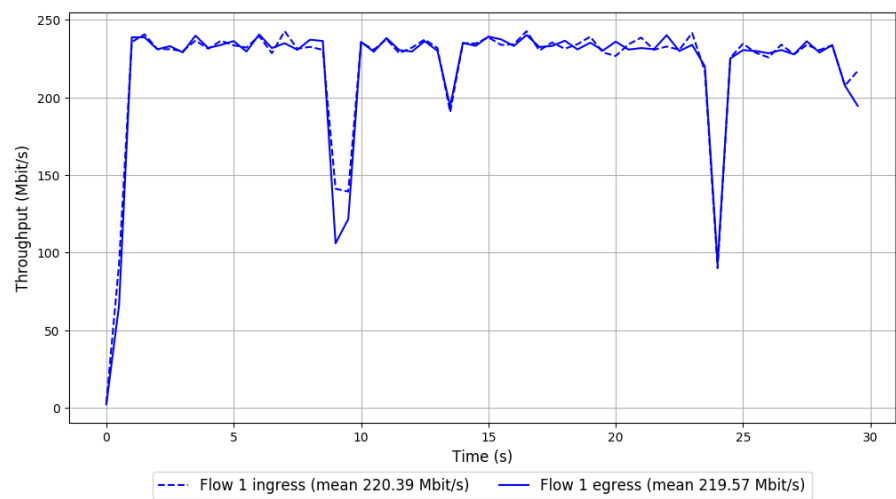
-- Flow 1:

Average throughput: 219.57 Mbit/s

95th percentile per-packet one-way delay: 54.728 ms

Loss rate: 0.71%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-27 16:19:14

End at: 2018-02-27 16:19:44

Below is generated by plot.py at 2018-02-27 19:41:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.04 Mbit/s

95th percentile per-packet one-way delay: 51.573 ms

Loss rate: 0.27%

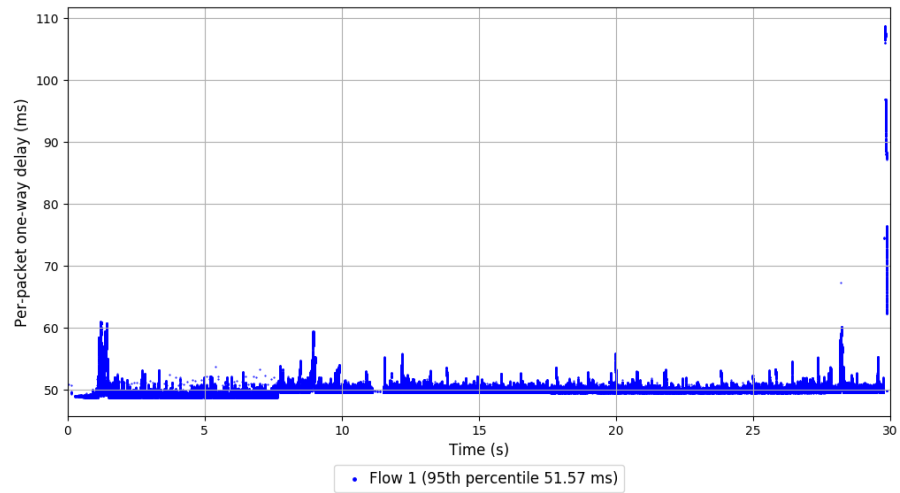
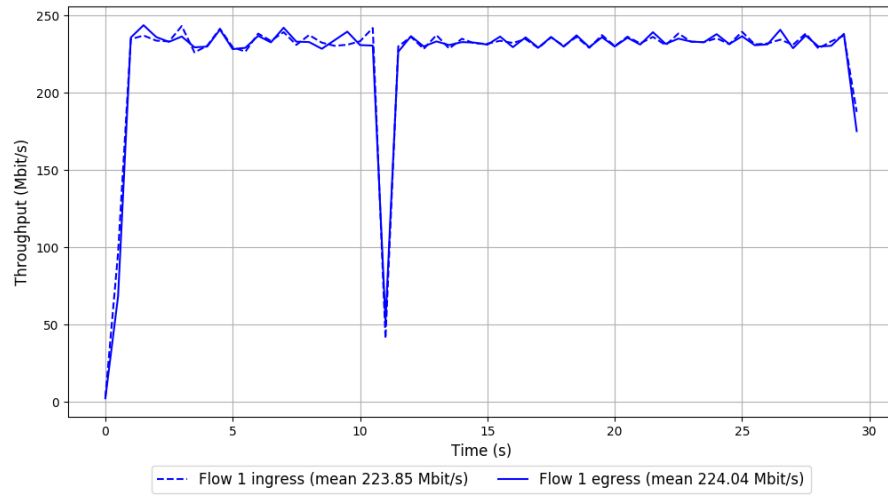
-- Flow 1:

Average throughput: 224.04 Mbit/s

95th percentile per-packet one-way delay: 51.573 ms

Loss rate: 0.27%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-27 16:34:01

End at: 2018-02-27 16:34:31

Below is generated by plot.py at 2018-02-27 19:46:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.79 Mbit/s

95th percentile per-packet one-way delay: 52.242 ms

Loss rate: 0.34%

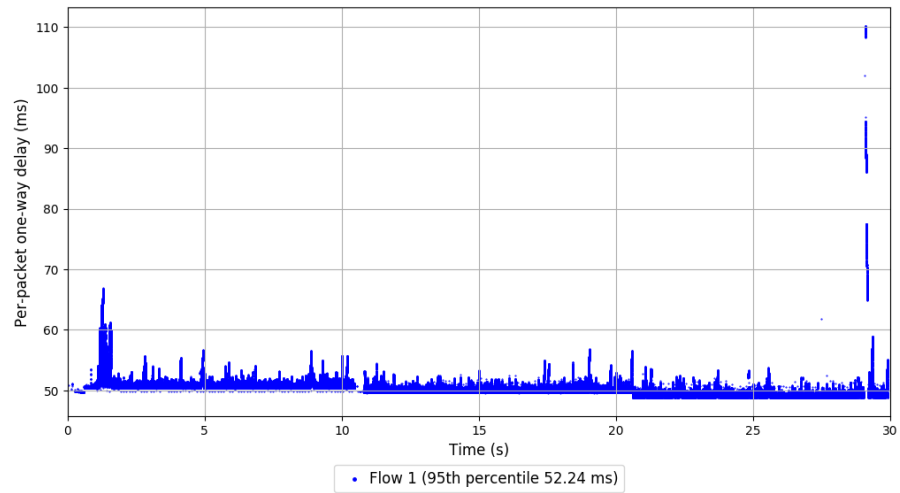
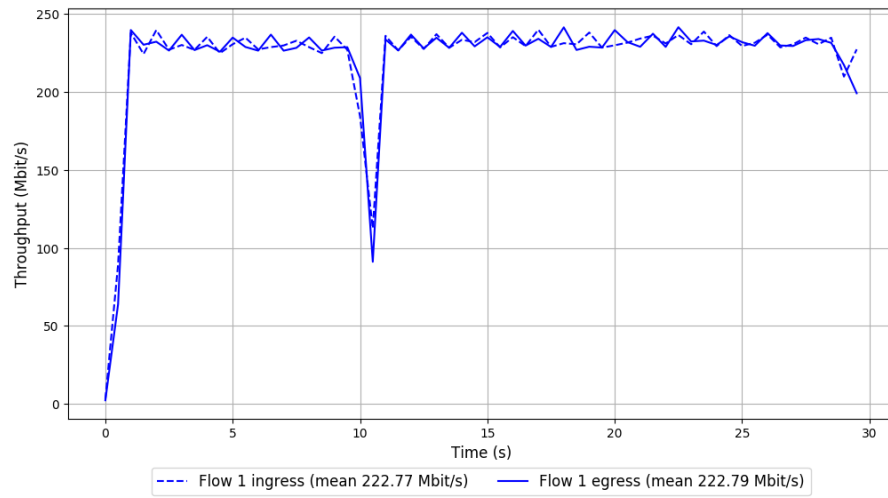
-- Flow 1:

Average throughput: 222.79 Mbit/s

95th percentile per-packet one-way delay: 52.242 ms

Loss rate: 0.34%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-27 16:48:45

End at: 2018-02-27 16:49:15

Below is generated by plot.py at 2018-02-27 19:46:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.85 Mbit/s

95th percentile per-packet one-way delay: 52.884 ms

Loss rate: 0.45%

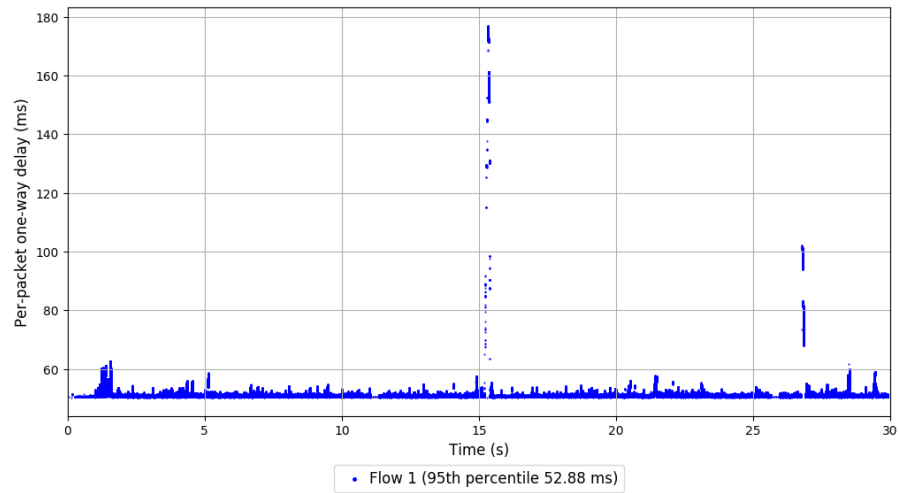
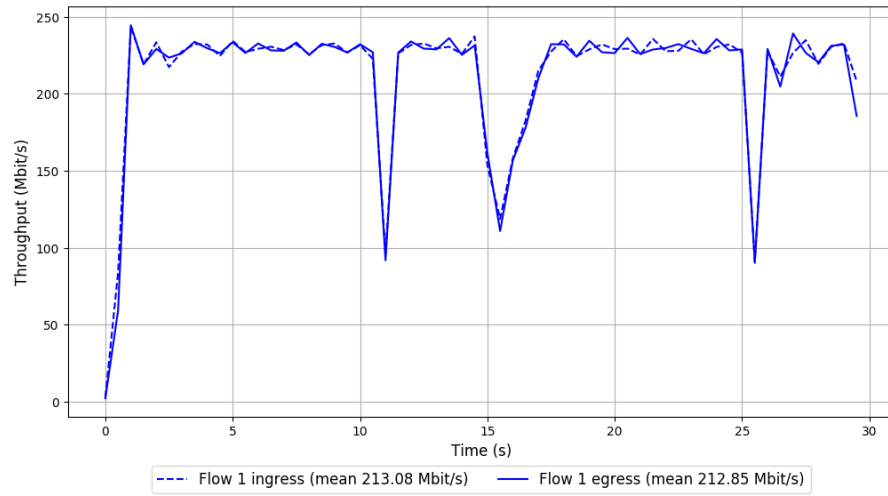
-- Flow 1:

Average throughput: 212.85 Mbit/s

95th percentile per-packet one-way delay: 52.884 ms

Loss rate: 0.45%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-27 14:41:55

End at: 2018-02-27 14:42:25

Below is generated by plot.py at 2018-02-27 19:47:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.65 Mbit/s

95th percentile per-packet one-way delay: 62.057 ms

Loss rate: 0.38%

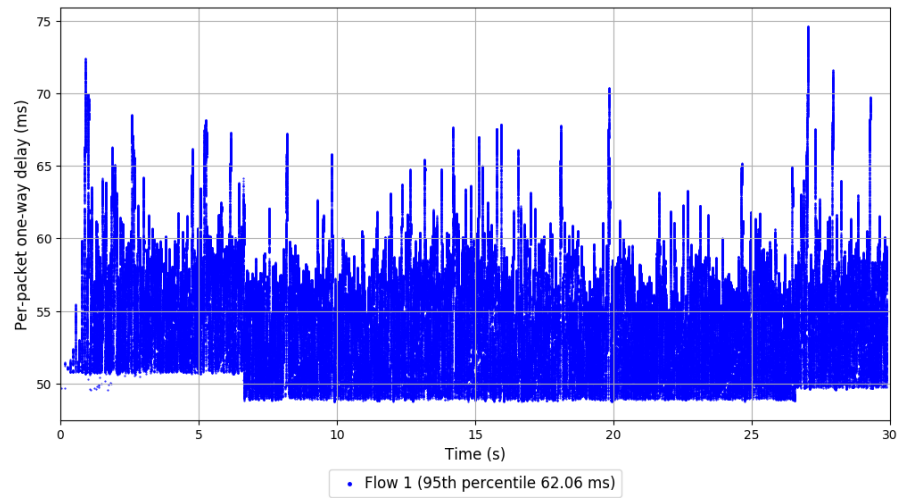
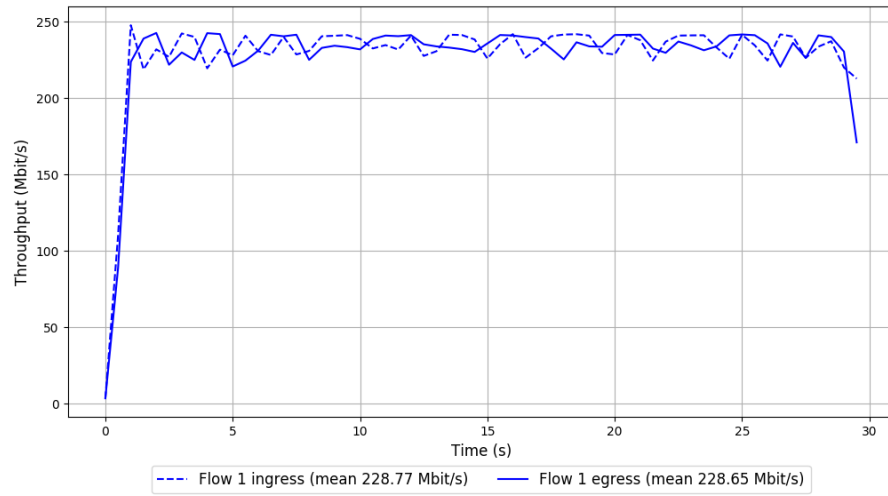
-- Flow 1:

Average throughput: 228.65 Mbit/s

95th percentile per-packet one-way delay: 62.057 ms

Loss rate: 0.38%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-27 14:56:42

End at: 2018-02-27 14:57:12

Below is generated by plot.py at 2018-02-27 19:47:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.16 Mbit/s

95th percentile per-packet one-way delay: 59.207 ms

Loss rate: 0.39%

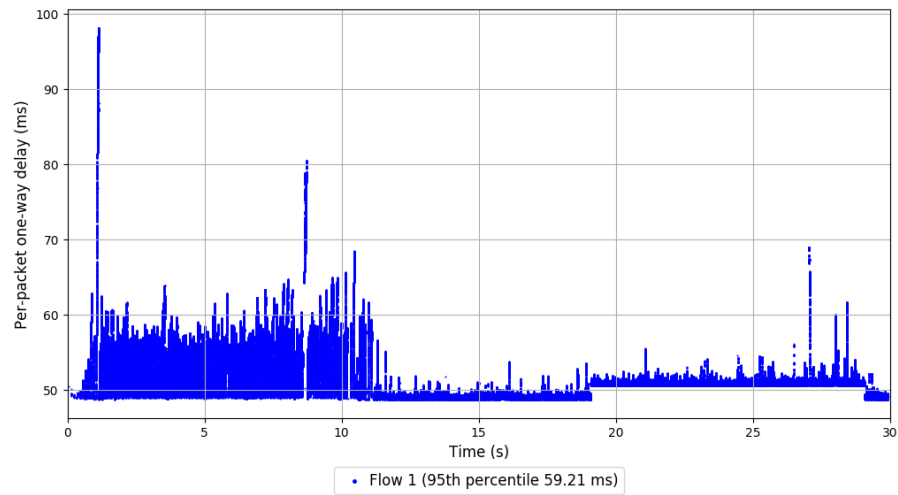
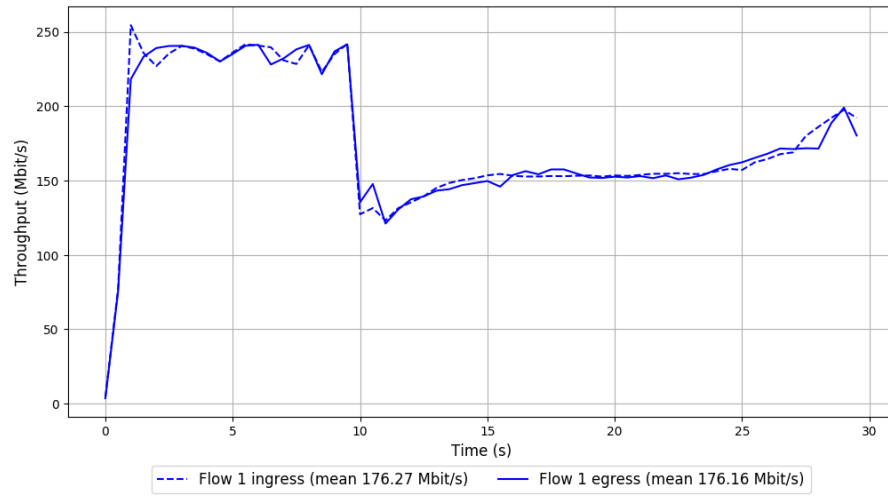
-- Flow 1:

Average throughput: 176.16 Mbit/s

95th percentile per-packet one-way delay: 59.207 ms

Loss rate: 0.39%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-27 15:11:23

End at: 2018-02-27 15:11:53

Below is generated by plot.py at 2018-02-27 19:47:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.49 Mbit/s

95th percentile per-packet one-way delay: 60.099 ms

Loss rate: 0.21%

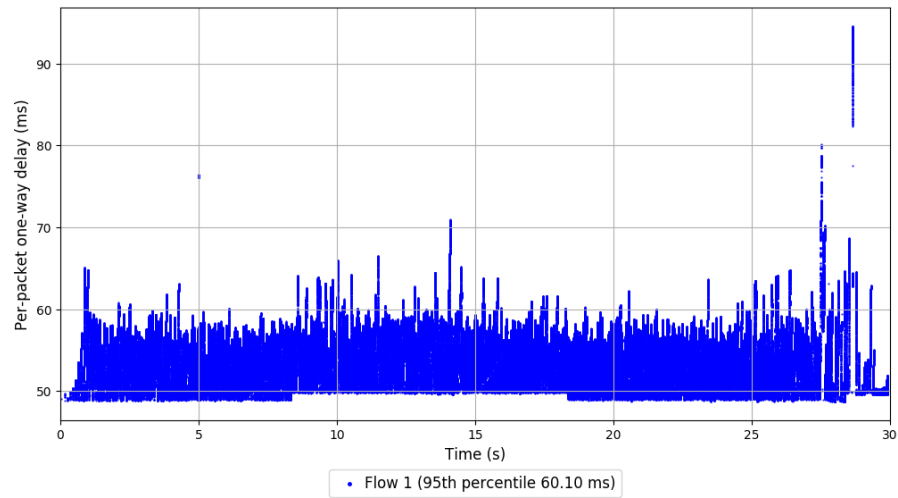
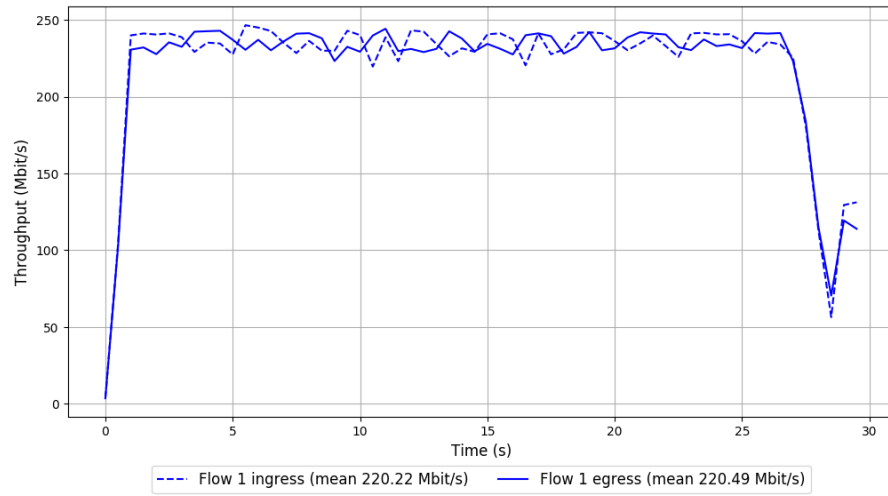
-- Flow 1:

Average throughput: 220.49 Mbit/s

95th percentile per-packet one-way delay: 60.099 ms

Loss rate: 0.21%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-27 15:26:05

End at: 2018-02-27 15:26:35

Below is generated by plot.py at 2018-02-27 19:47:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.75 Mbit/s

95th percentile per-packet one-way delay: 62.673 ms

Loss rate: 0.21%

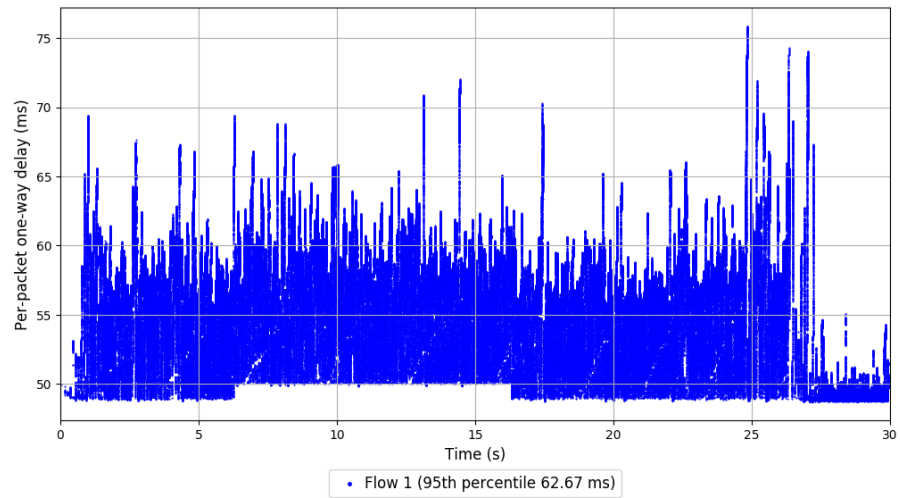
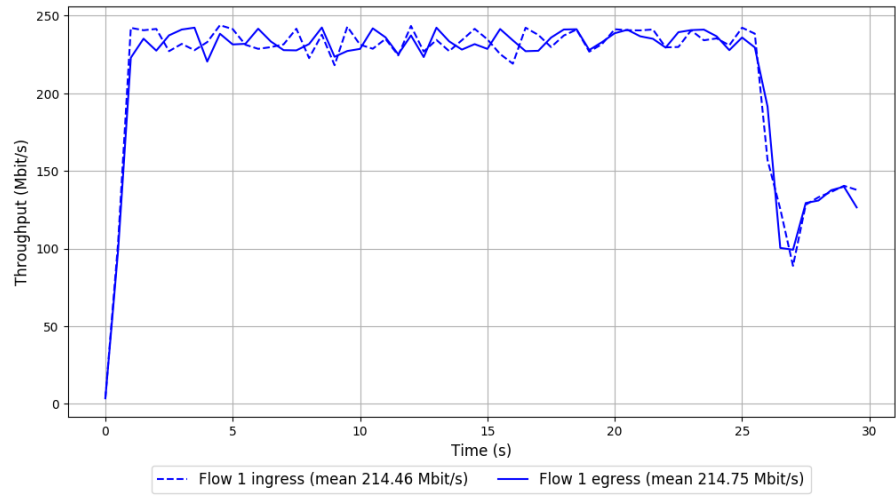
-- Flow 1:

Average throughput: 214.75 Mbit/s

95th percentile per-packet one-way delay: 62.673 ms

Loss rate: 0.21%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-27 15:40:40

End at: 2018-02-27 15:41:10

Below is generated by plot.py at 2018-02-27 19:47:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.13 Mbit/s

95th percentile per-packet one-way delay: 62.922 ms

Loss rate: 0.19%

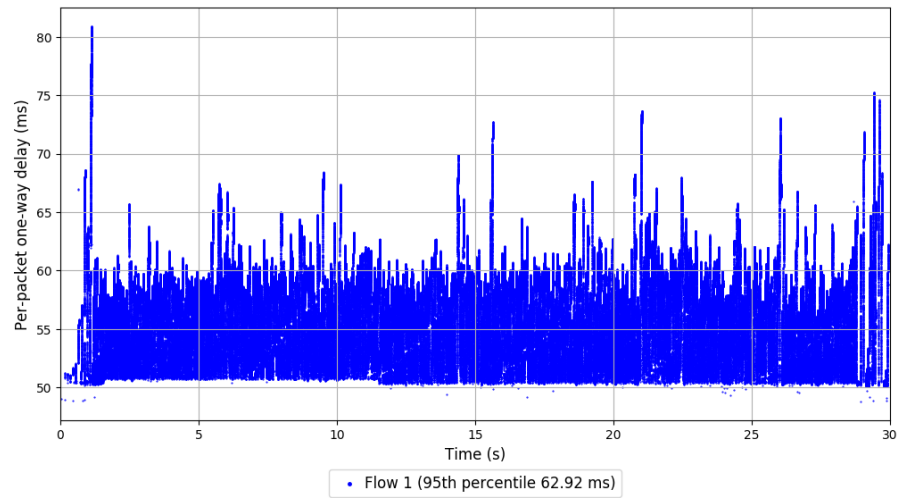
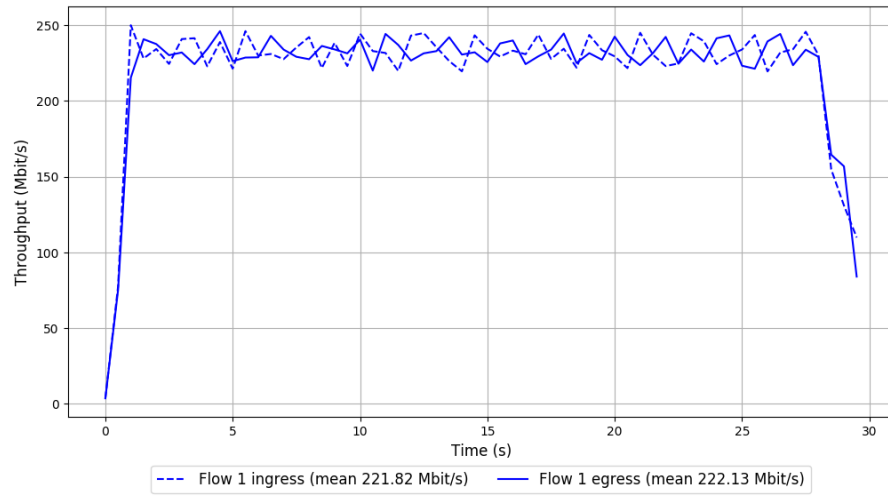
-- Flow 1:

Average throughput: 222.13 Mbit/s

95th percentile per-packet one-way delay: 62.922 ms

Loss rate: 0.19%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-27 15:55:22

End at: 2018-02-27 15:55:52

Below is generated by plot.py at 2018-02-27 19:47:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.80 Mbit/s

95th percentile per-packet one-way delay: 60.257 ms

Loss rate: 0.42%

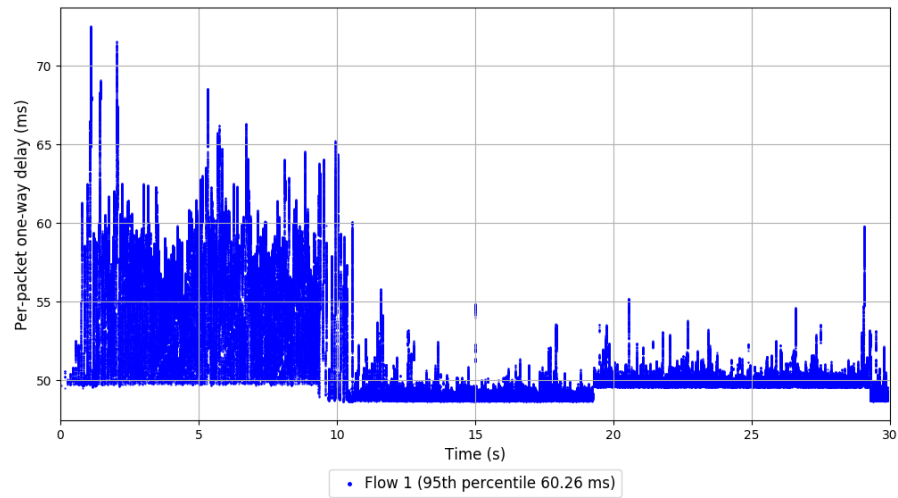
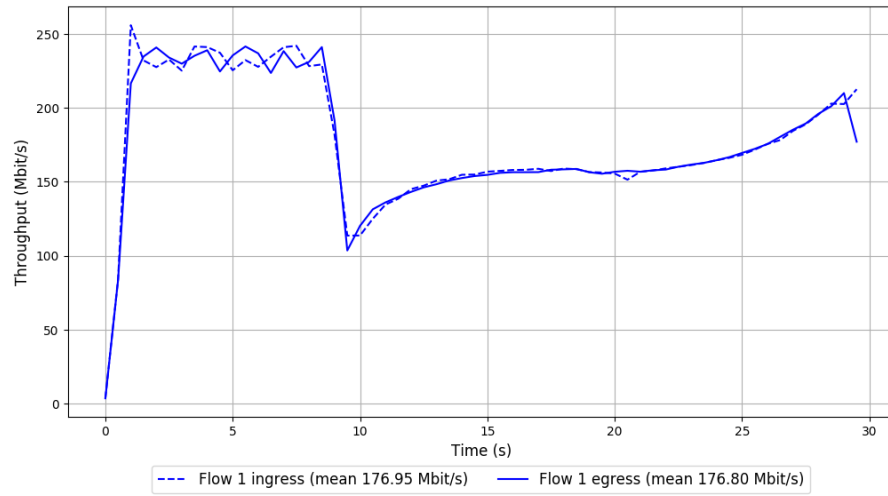
-- Flow 1:

Average throughput: 176.80 Mbit/s

95th percentile per-packet one-way delay: 60.257 ms

Loss rate: 0.42%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-27 16:10:04

End at: 2018-02-27 16:10:34

Below is generated by plot.py at 2018-02-27 19:51:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.69 Mbit/s

95th percentile per-packet one-way delay: 62.777 ms

Loss rate: 0.39%

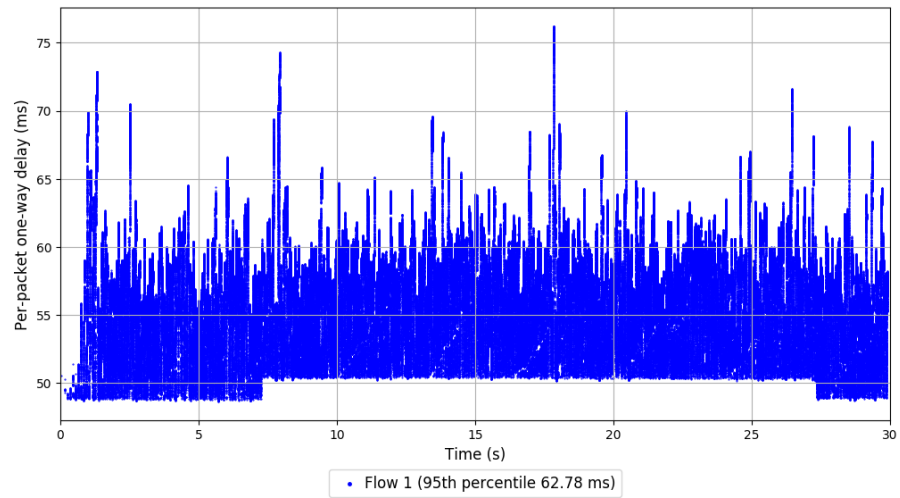
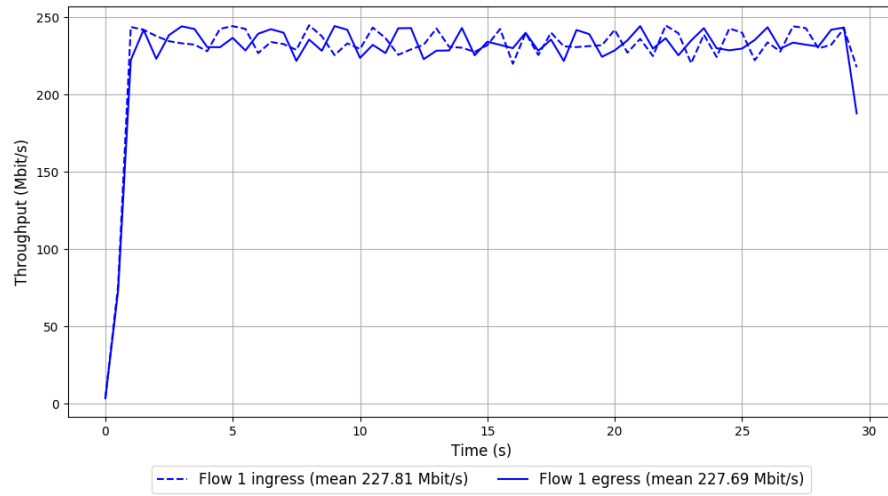
-- Flow 1:

Average throughput: 227.69 Mbit/s

95th percentile per-packet one-way delay: 62.777 ms

Loss rate: 0.39%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-27 16:24:44

End at: 2018-02-27 16:25:14

Below is generated by plot.py at 2018-02-27 19:51:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.82 Mbit/s

95th percentile per-packet one-way delay: 63.426 ms

Loss rate: 0.35%

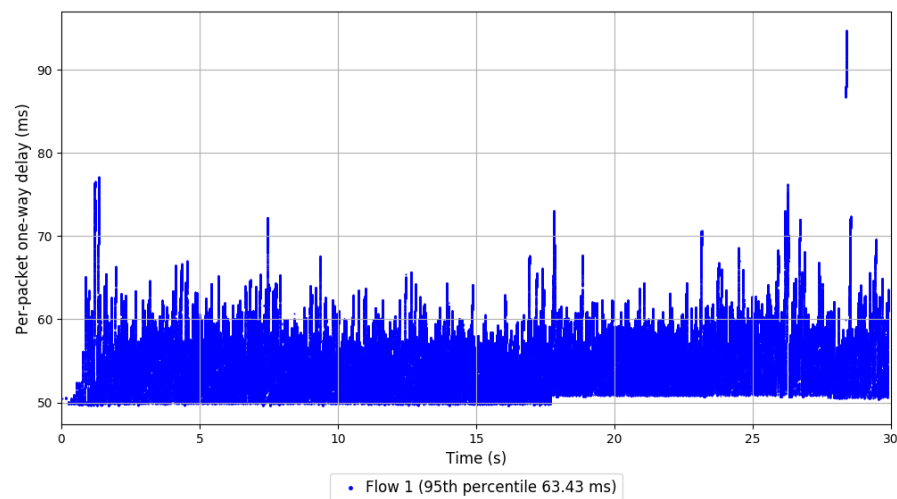
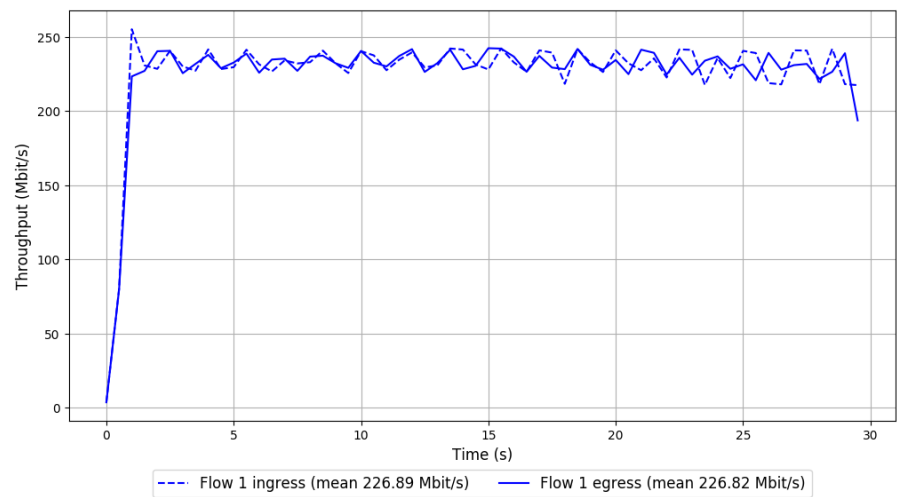
-- Flow 1:

Average throughput: 226.82 Mbit/s

95th percentile per-packet one-way delay: 63.426 ms

Loss rate: 0.35%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-27 16:39:28

End at: 2018-02-27 16:39:58

Below is generated by plot.py at 2018-02-27 19:52:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.82 Mbit/s

95th percentile per-packet one-way delay: 63.404 ms

Loss rate: 0.27%

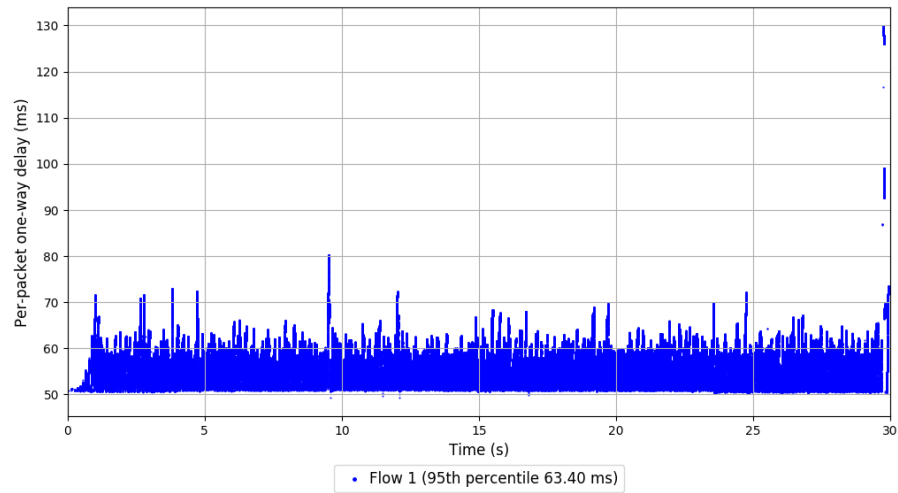
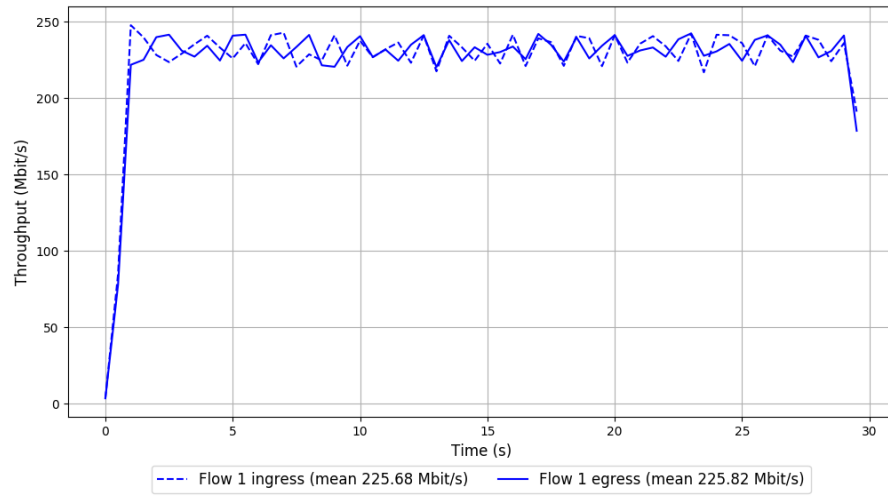
-- Flow 1:

Average throughput: 225.82 Mbit/s

95th percentile per-packet one-way delay: 63.404 ms

Loss rate: 0.27%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-27 16:54:08

End at: 2018-02-27 16:54:38

Below is generated by plot.py at 2018-02-27 19:52:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.22 Mbit/s

95th percentile per-packet one-way delay: 63.782 ms

Loss rate: 0.35%

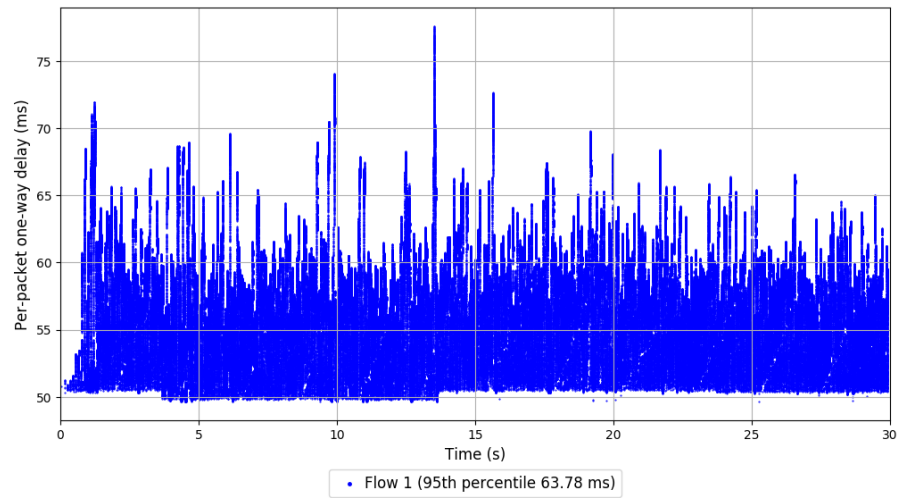
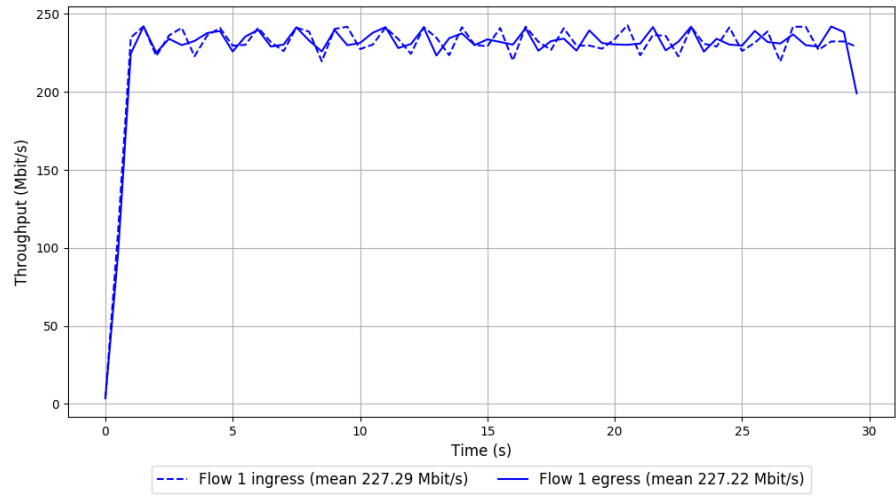
-- Flow 1:

Average throughput: 227.22 Mbit/s

95th percentile per-packet one-way delay: 63.782 ms

Loss rate: 0.35%

Run 10: Report of TCP Cubic — Data Link

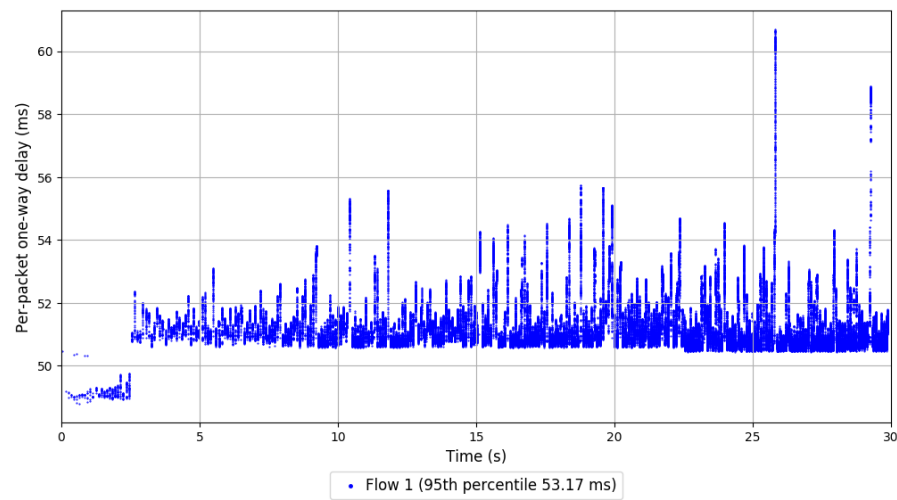
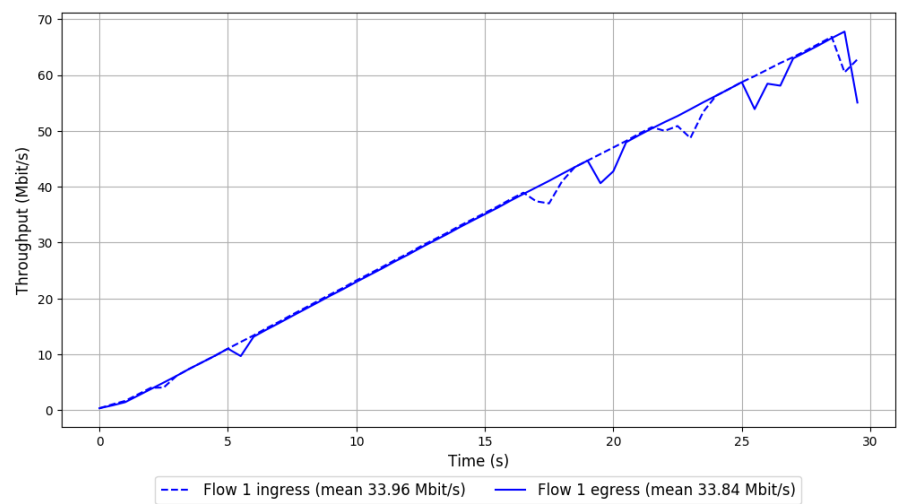


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-27 14:43:39
End at: 2018-02-27 14:44:09

# Below is generated by plot.py at 2018-02-27 19:52:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 33.84 Mbit/s
95th percentile per-packet one-way delay: 53.168 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 33.84 Mbit/s
95th percentile per-packet one-way delay: 53.168 ms
Loss rate: 0.68%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-02-27 14:58:24

End at: 2018-02-27 14:58:54

Below is generated by plot.py at 2018-02-27 19:52:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.16 Mbit/s

95th percentile per-packet one-way delay: 52.545 ms

Loss rate: 0.67%

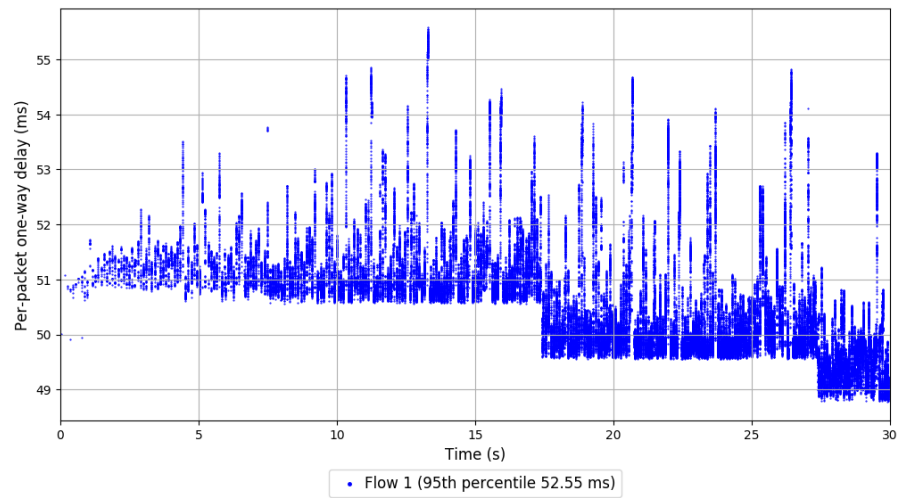
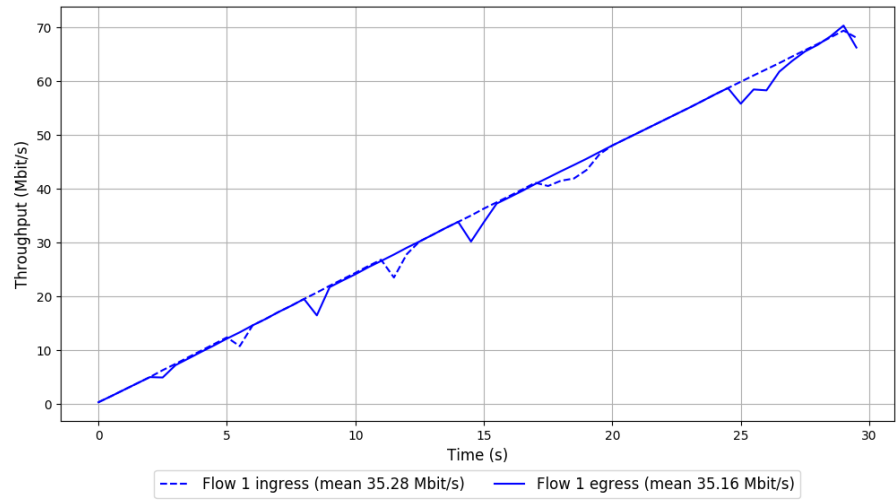
-- Flow 1:

Average throughput: 35.16 Mbit/s

95th percentile per-packet one-way delay: 52.545 ms

Loss rate: 0.67%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-27 15:13:03

End at: 2018-02-27 15:13:33

Below is generated by plot.py at 2018-02-27 19:52:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.62 Mbit/s

95th percentile per-packet one-way delay: 52.106 ms

Loss rate: 0.66%

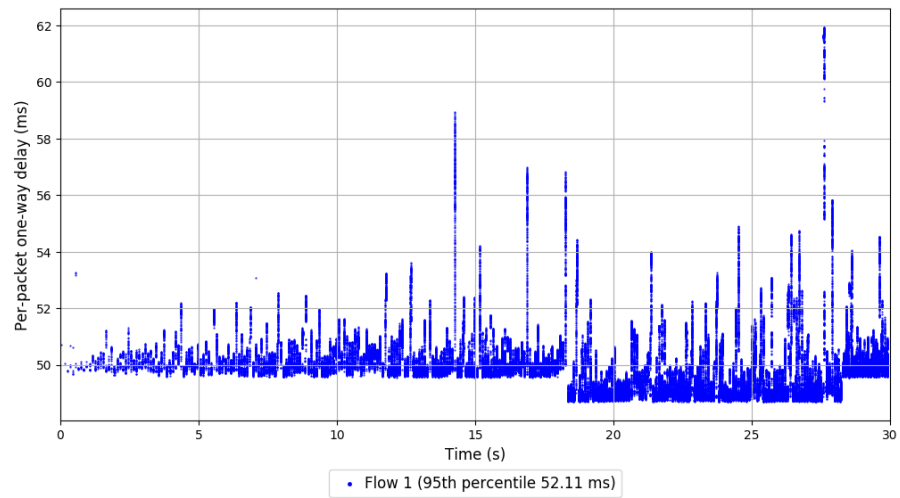
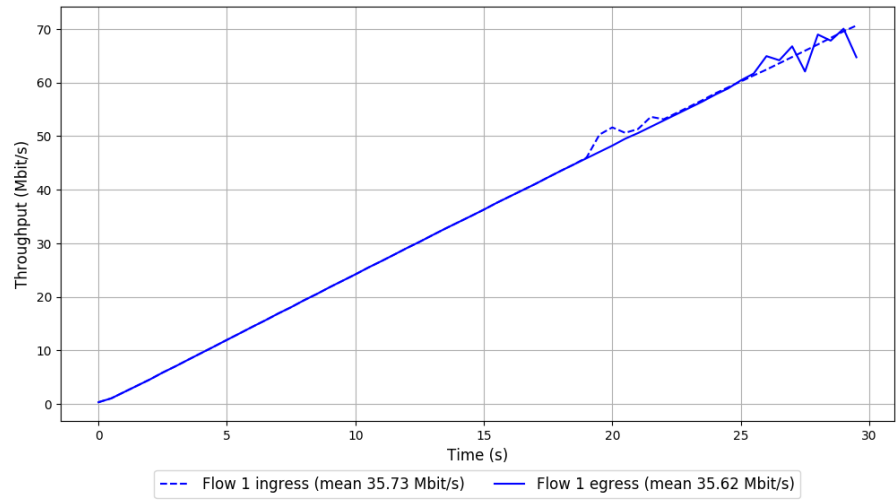
-- Flow 1:

Average throughput: 35.62 Mbit/s

95th percentile per-packet one-way delay: 52.106 ms

Loss rate: 0.66%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-27 15:27:51

End at: 2018-02-27 15:28:21

Below is generated by plot.py at 2018-02-27 19:52:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.40 Mbit/s

95th percentile per-packet one-way delay: 52.253 ms

Loss rate: 0.67%

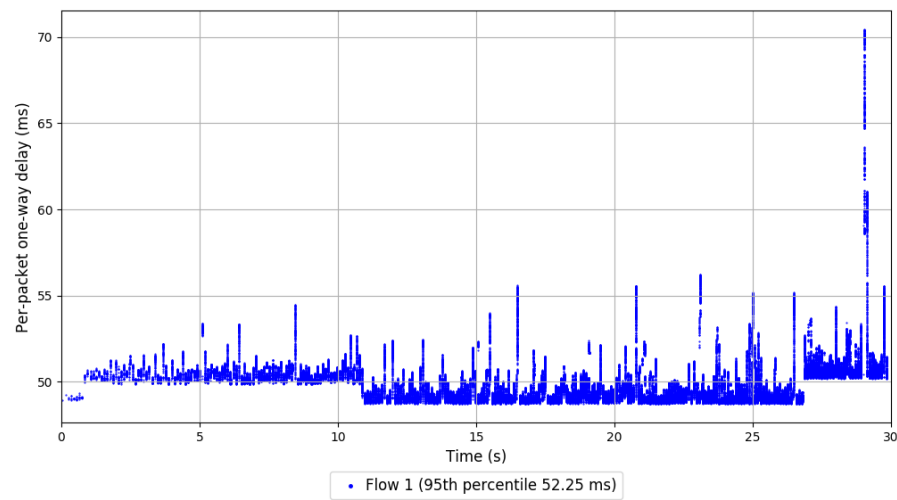
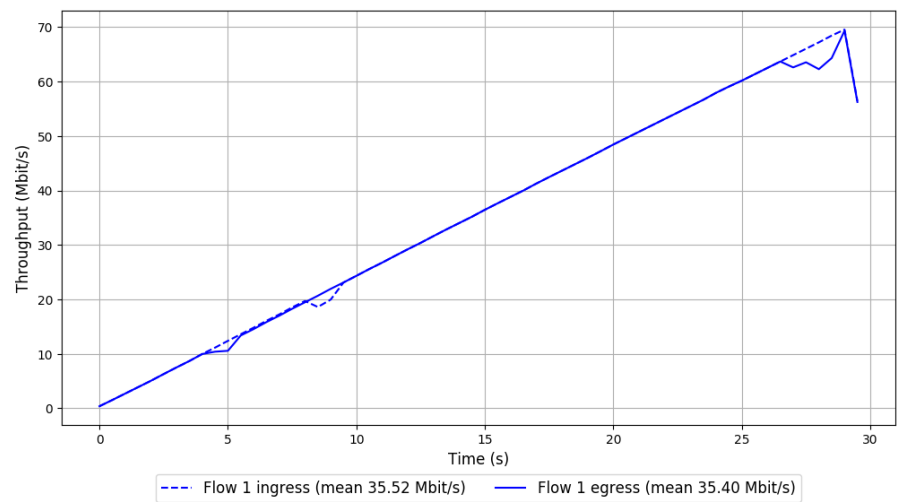
-- Flow 1:

Average throughput: 35.40 Mbit/s

95th percentile per-packet one-way delay: 52.253 ms

Loss rate: 0.67%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-27 15:42:23

End at: 2018-02-27 15:42:53

Below is generated by plot.py at 2018-02-27 19:52:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.43 Mbit/s

95th percentile per-packet one-way delay: 52.754 ms

Loss rate: 0.67%

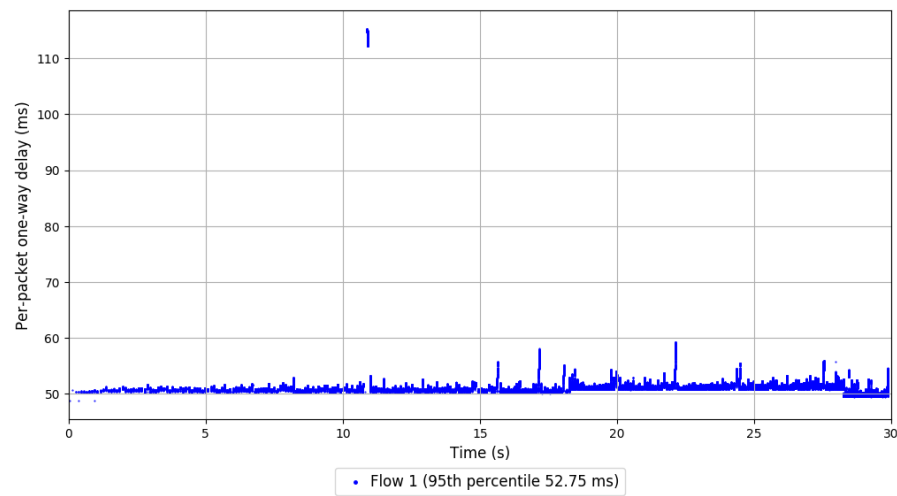
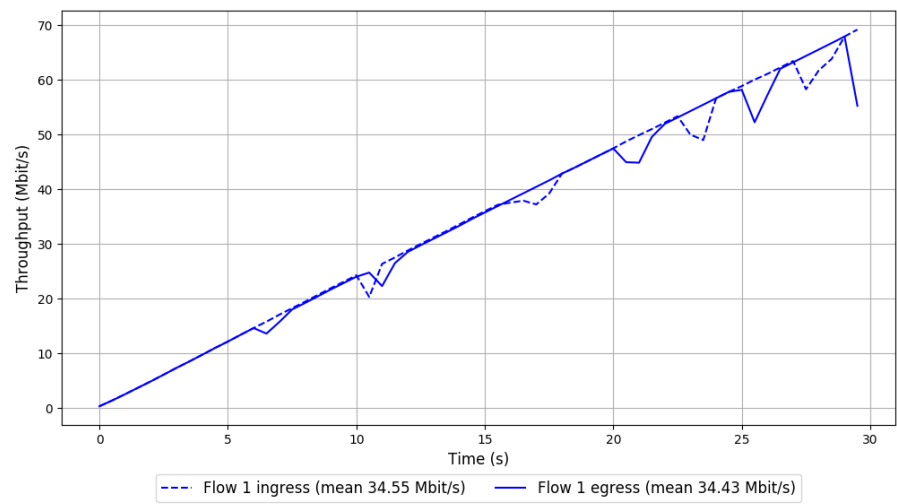
-- Flow 1:

Average throughput: 34.43 Mbit/s

95th percentile per-packet one-way delay: 52.754 ms

Loss rate: 0.67%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-27 15:57:05

End at: 2018-02-27 15:57:35

Below is generated by plot.py at 2018-02-27 19:52:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.91 Mbit/s

95th percentile per-packet one-way delay: 52.403 ms

Loss rate: 0.42%

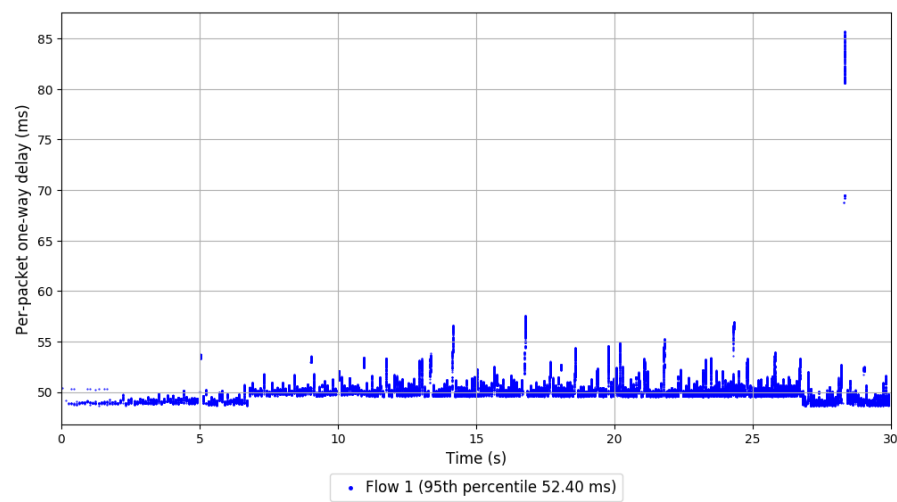
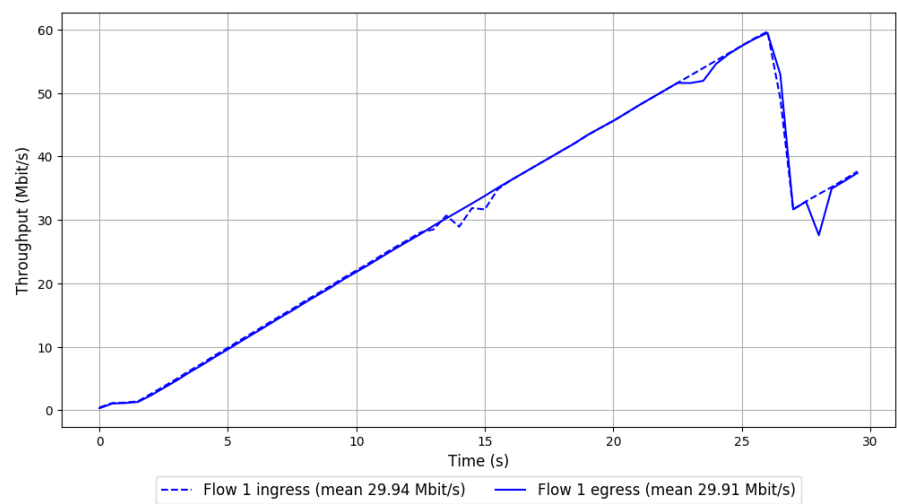
-- Flow 1:

Average throughput: 29.91 Mbit/s

95th percentile per-packet one-way delay: 52.403 ms

Loss rate: 0.42%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-27 16:11:48

End at: 2018-02-27 16:12:18

Below is generated by plot.py at 2018-02-27 19:52:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.89 Mbit/s

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

Loss rate: 0.67%

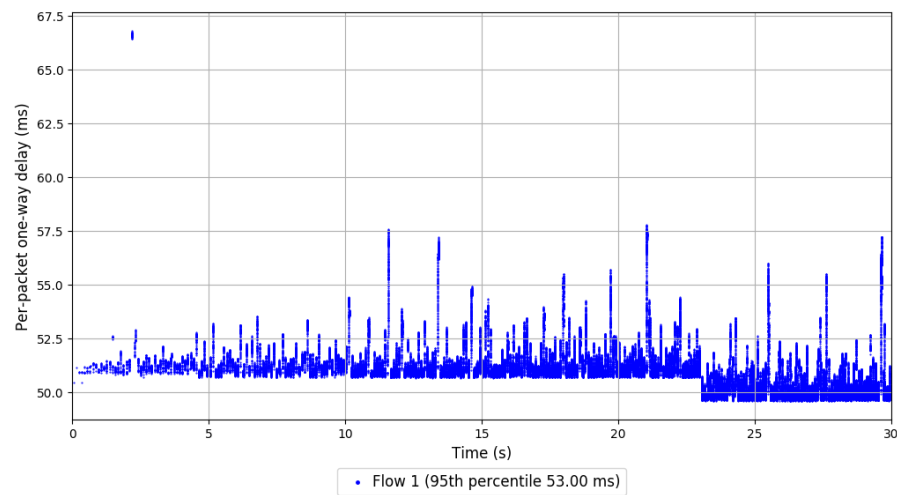
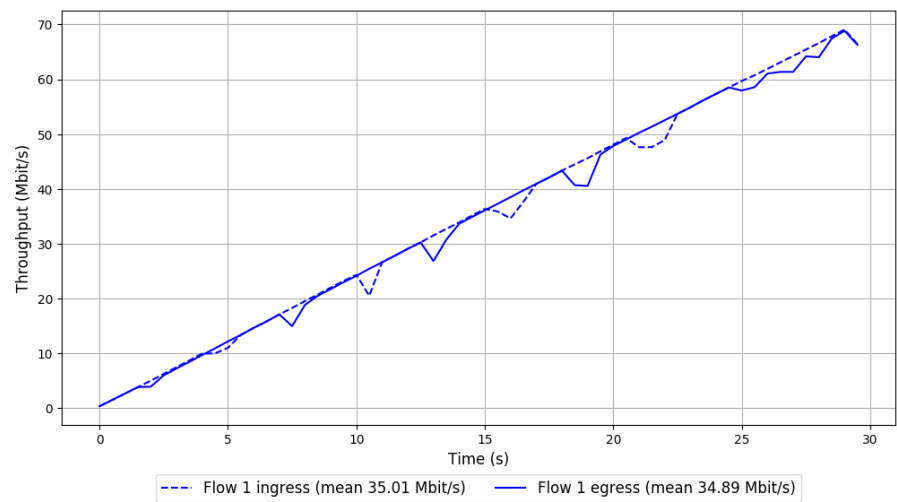
-- Flow 1:

Average throughput: 34.89 Mbit/s

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

Loss rate: 0.67%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-27 16:26:30

End at: 2018-02-27 16:27:00

Below is generated by plot.py at 2018-02-27 19:52:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.05 Mbit/s

95th percentile per-packet one-way delay: 52.540 ms

Loss rate: 0.67%

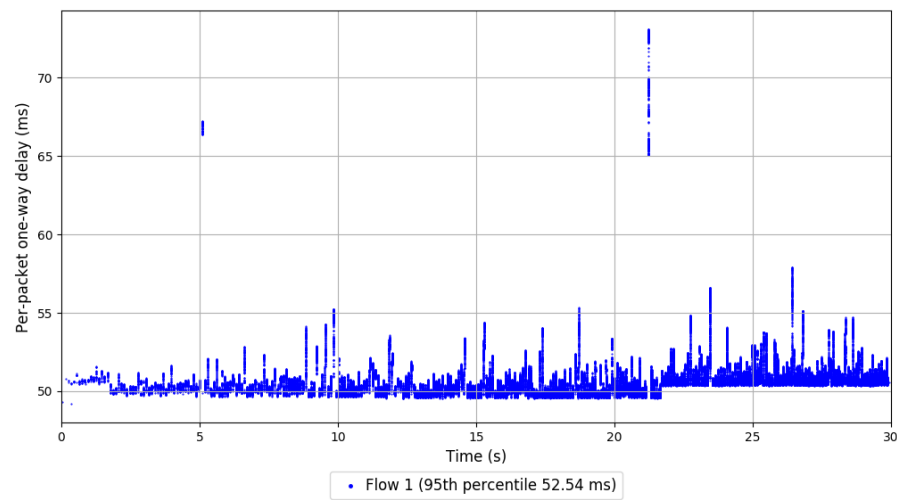
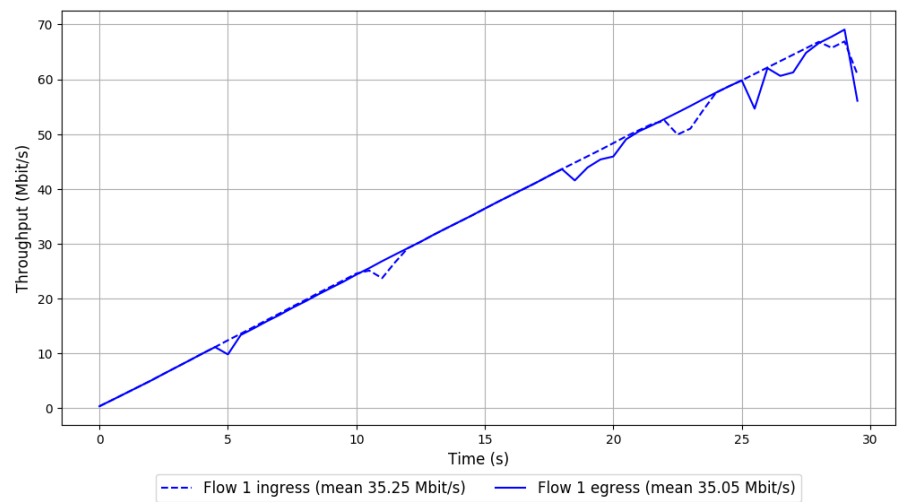
-- Flow 1:

Average throughput: 35.05 Mbit/s

95th percentile per-packet one-way delay: 52.540 ms

Loss rate: 0.67%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-27 16:41:10

End at: 2018-02-27 16:41:40

Below is generated by plot.py at 2018-02-27 19:52:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.10 Mbit/s

95th percentile per-packet one-way delay: 53.151 ms

Loss rate: 0.67%

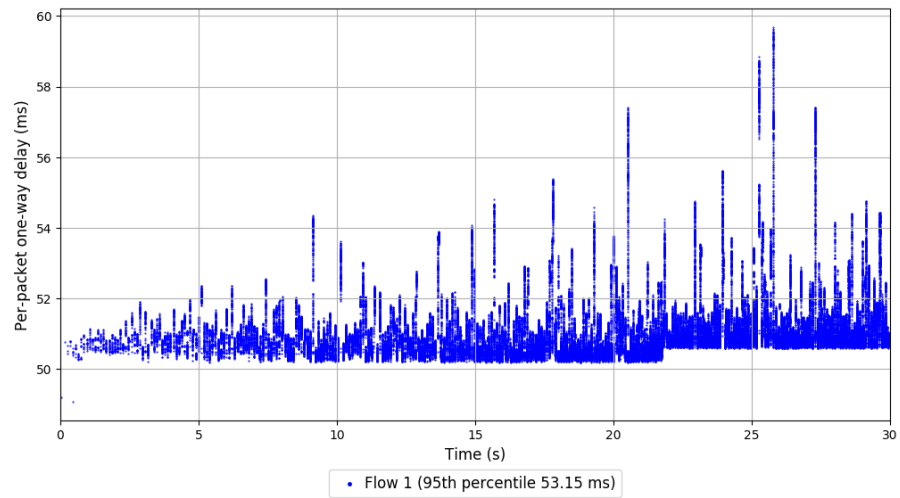
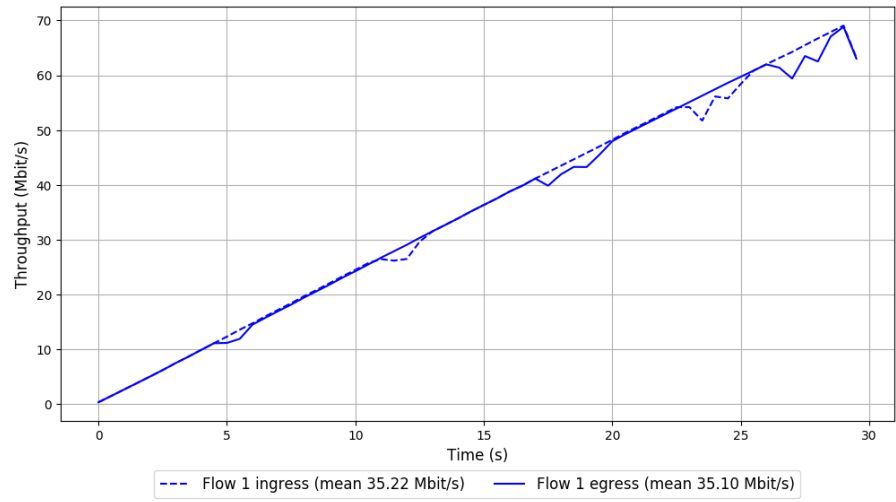
-- Flow 1:

Average throughput: 35.10 Mbit/s

95th percentile per-packet one-way delay: 53.151 ms

Loss rate: 0.67%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-27 16:55:52

End at: 2018-02-27 16:56:22

Below is generated by plot.py at 2018-02-27 19:52:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.11 Mbit/s

95th percentile per-packet one-way delay: 52.434 ms

Loss rate: 0.61%

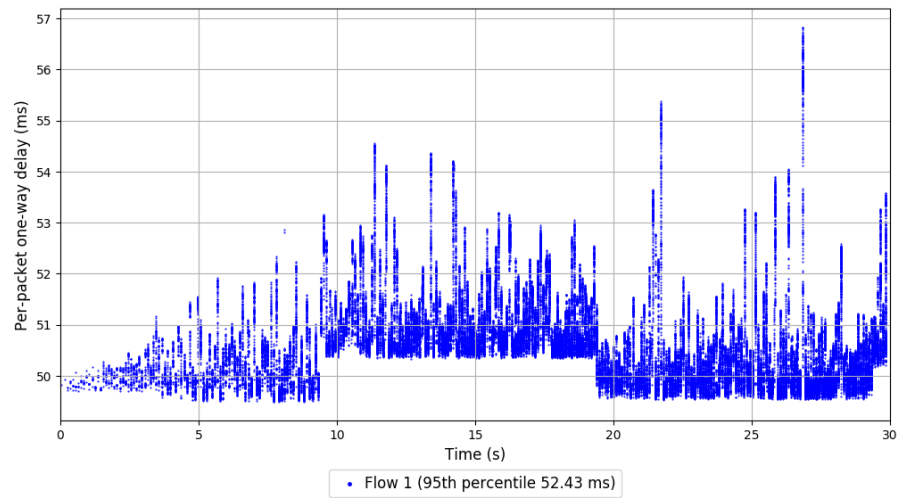
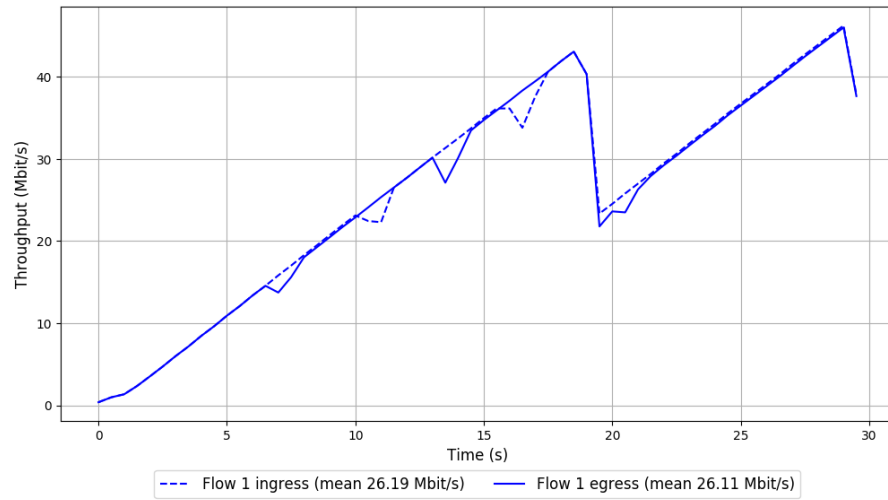
-- Flow 1:

Average throughput: 26.11 Mbit/s

95th percentile per-packet one-way delay: 52.434 ms

Loss rate: 0.61%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: 2018-02-27 14:42:43

End at: 2018-02-27 14:43:13

Below is generated by plot.py at 2018-02-27 20:02:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 494.39 Mbit/s

95th percentile per-packet one-way delay: 118.900 ms

Loss rate: 1.10%

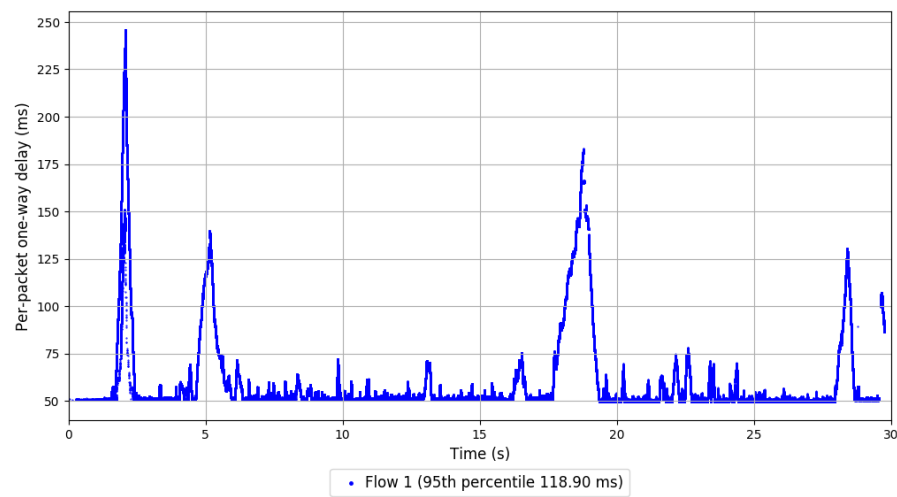
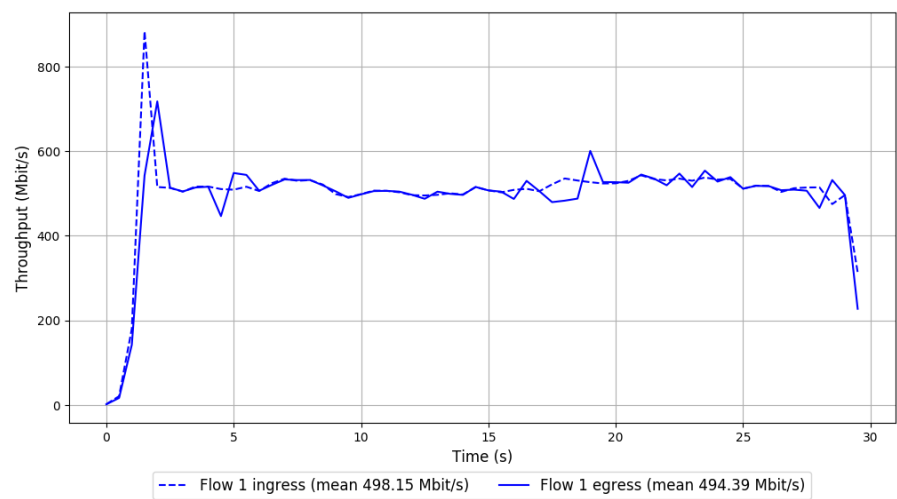
-- Flow 1:

Average throughput: 494.39 Mbit/s

95th percentile per-packet one-way delay: 118.900 ms

Loss rate: 1.10%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-27 14:57:28

End at: 2018-02-27 14:57:58

Below is generated by plot.py at 2018-02-27 20:03:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 508.27 Mbit/s

95th percentile per-packet one-way delay: 126.870 ms

Loss rate: 1.17%

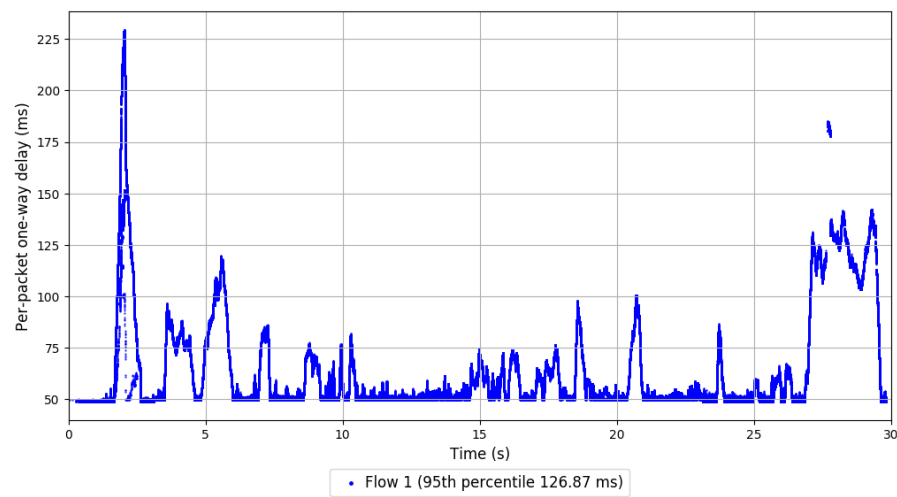
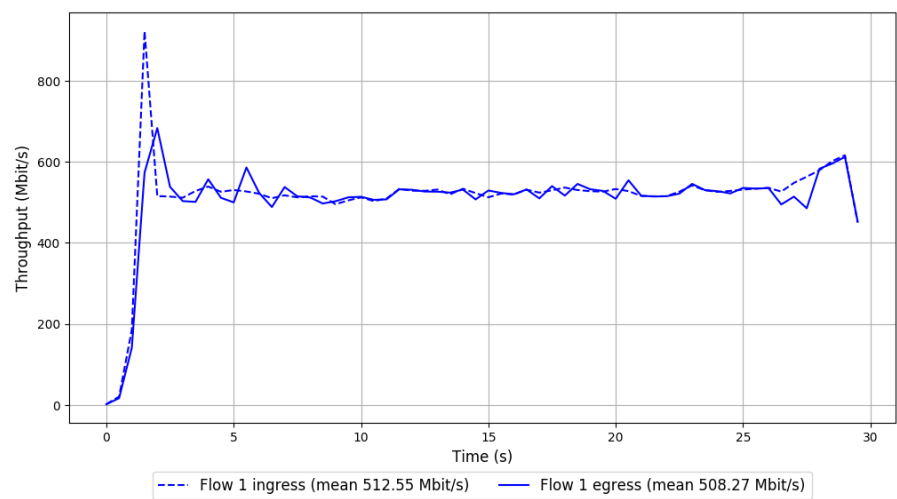
-- Flow 1:

Average throughput: 508.27 Mbit/s

95th percentile per-packet one-way delay: 126.870 ms

Loss rate: 1.17%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-27 15:12:12

End at: 2018-02-27 15:12:42

Below is generated by plot.py at 2018-02-27 20:03:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 411.25 Mbit/s

95th percentile per-packet one-way delay: 66.393 ms

Loss rate: 0.37%

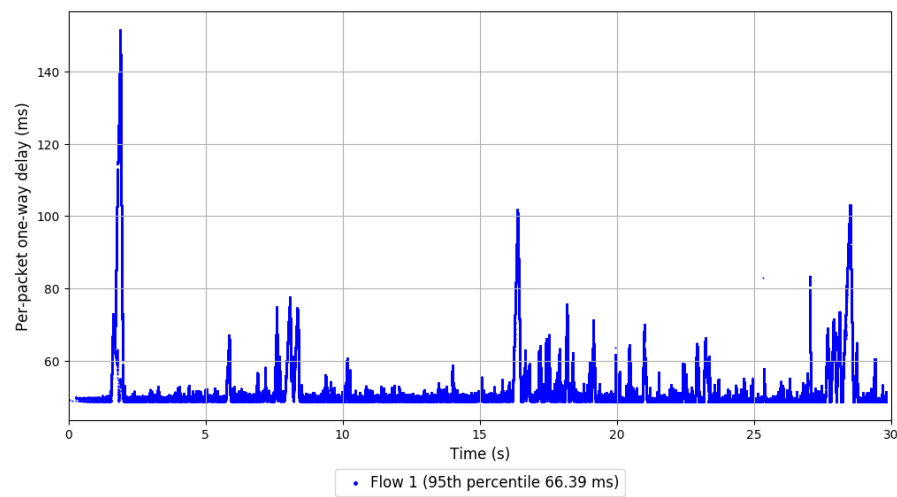
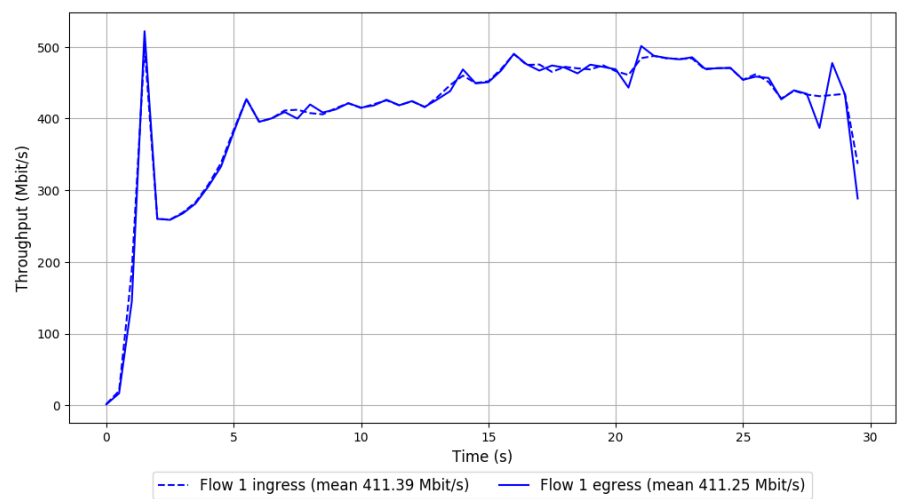
-- Flow 1:

Average throughput: 411.25 Mbit/s

95th percentile per-packet one-way delay: 66.393 ms

Loss rate: 0.37%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-27 15:26:54

End at: 2018-02-27 15:27:24

Below is generated by plot.py at 2018-02-27 20:03:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 499.05 Mbit/s

95th percentile per-packet one-way delay: 185.320 ms

Loss rate: 2.10%

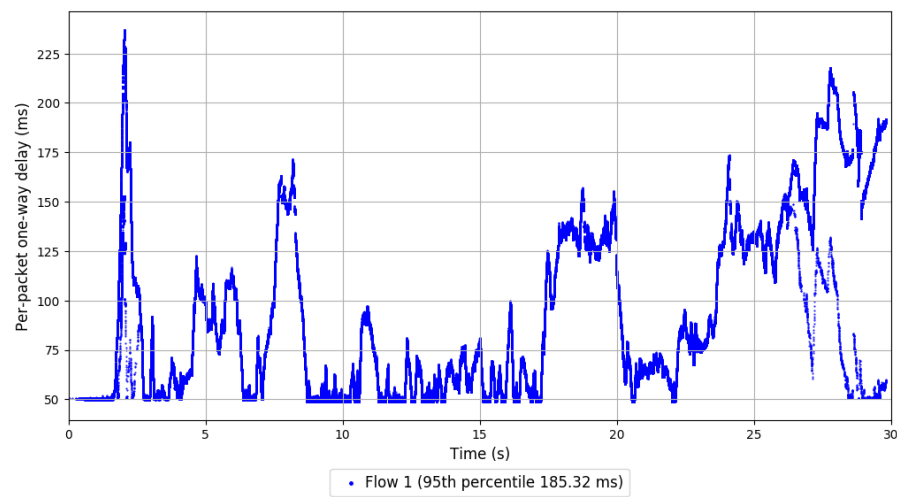
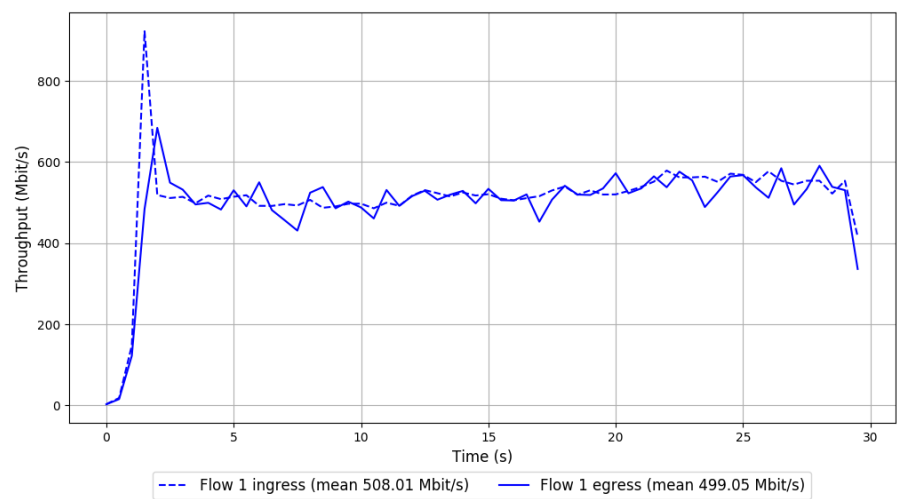
-- Flow 1:

Average throughput: 499.05 Mbit/s

95th percentile per-packet one-way delay: 185.320 ms

Loss rate: 2.10%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-27 15:41:28

End at: 2018-02-27 15:41:58

Below is generated by plot.py at 2018-02-27 20:05:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 479.80 Mbit/s

95th percentile per-packet one-way delay: 129.925 ms

Loss rate: 1.08%

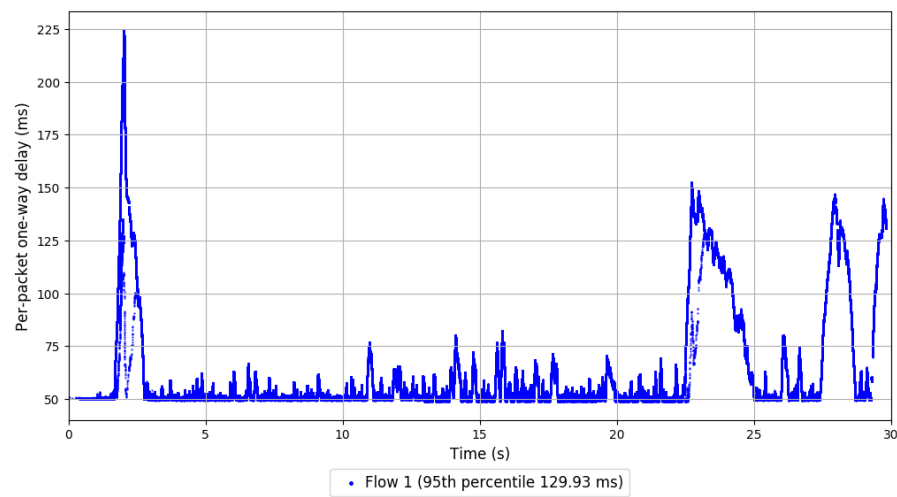
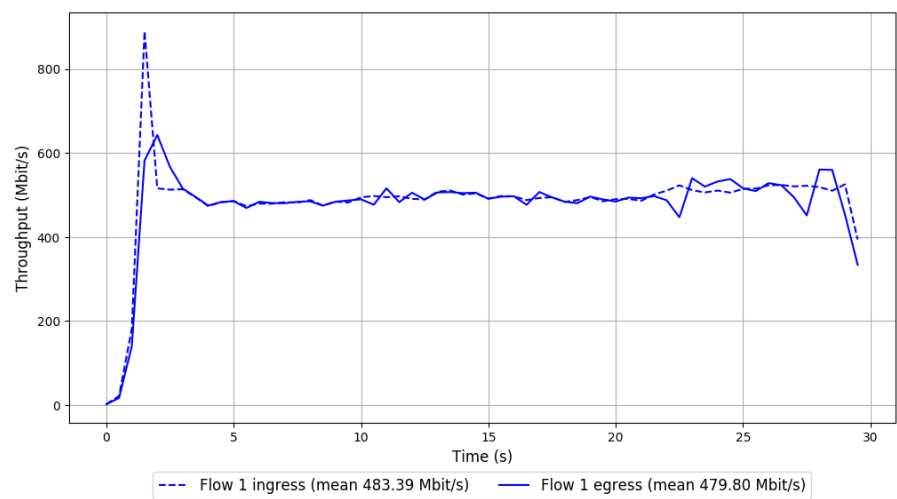
-- Flow 1:

Average throughput: 479.80 Mbit/s

95th percentile per-packet one-way delay: 129.925 ms

Loss rate: 1.08%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-27 15:56:08

End at: 2018-02-27 15:56:38

Below is generated by plot.py at 2018-02-27 20:05:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 508.23 Mbit/s

95th percentile per-packet one-way delay: 192.278 ms

Loss rate: 1.70%

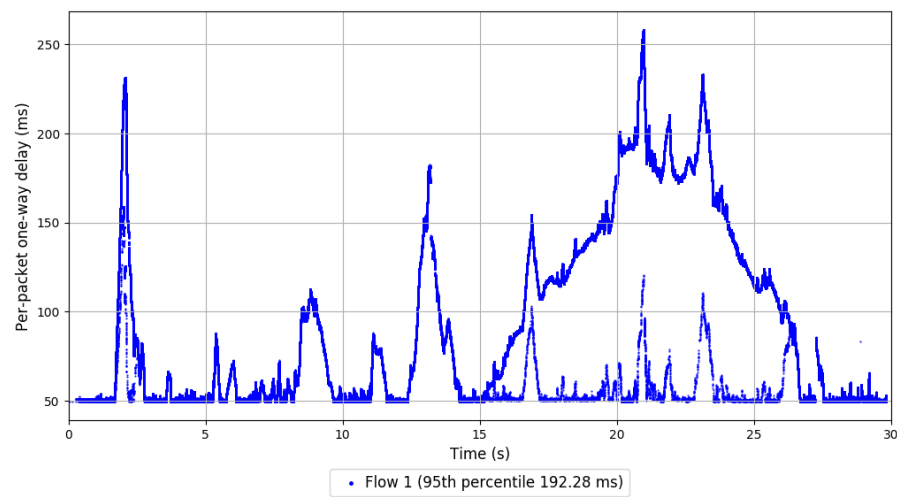
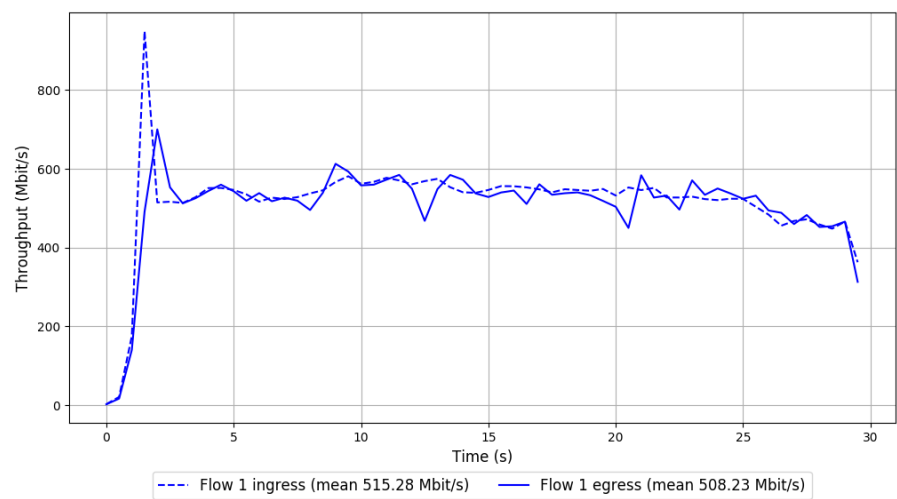
-- Flow 1:

Average throughput: 508.23 Mbit/s

95th percentile per-packet one-way delay: 192.278 ms

Loss rate: 1.70%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-27 16:10:54

End at: 2018-02-27 16:11:24

Below is generated by plot.py at 2018-02-27 20:05:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 446.43 Mbit/s

95th percentile per-packet one-way delay: 182.913 ms

Loss rate: 2.89%

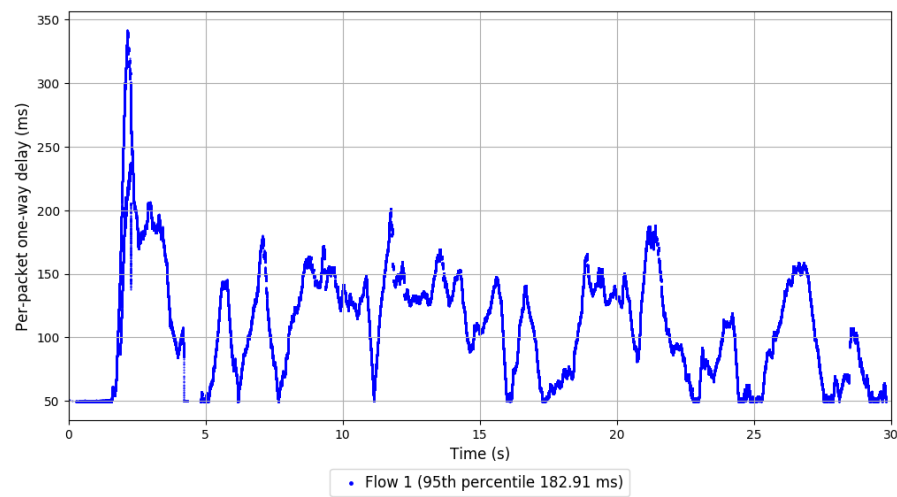
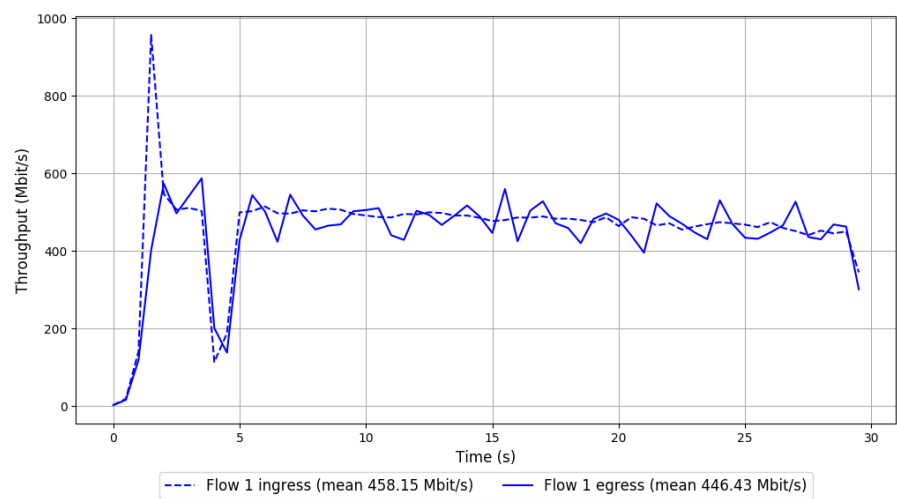
-- Flow 1:

Average throughput: 446.43 Mbit/s

95th percentile per-packet one-way delay: 182.913 ms

Loss rate: 2.89%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-27 16:25:32

End at: 2018-02-27 16:26:02

Below is generated by plot.py at 2018-02-27 20:07:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 511.66 Mbit/s

95th percentile per-packet one-way delay: 145.922 ms

Loss rate: 2.18%

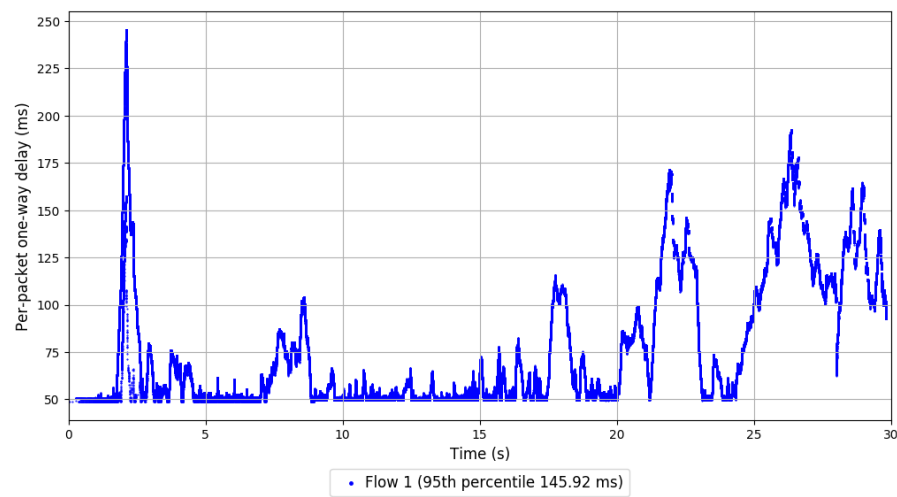
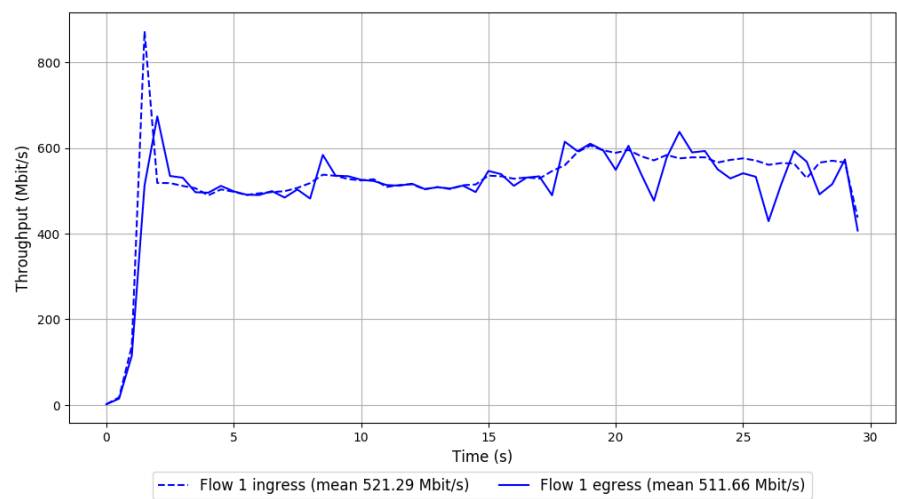
-- Flow 1:

Average throughput: 511.66 Mbit/s

95th percentile per-packet one-way delay: 145.922 ms

Loss rate: 2.18%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-27 16:40:18

End at: 2018-02-27 16:40:48

Below is generated by plot.py at 2018-02-27 20:11:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 369.97 Mbit/s

95th percentile per-packet one-way delay: 67.138 ms

Loss rate: 0.58%

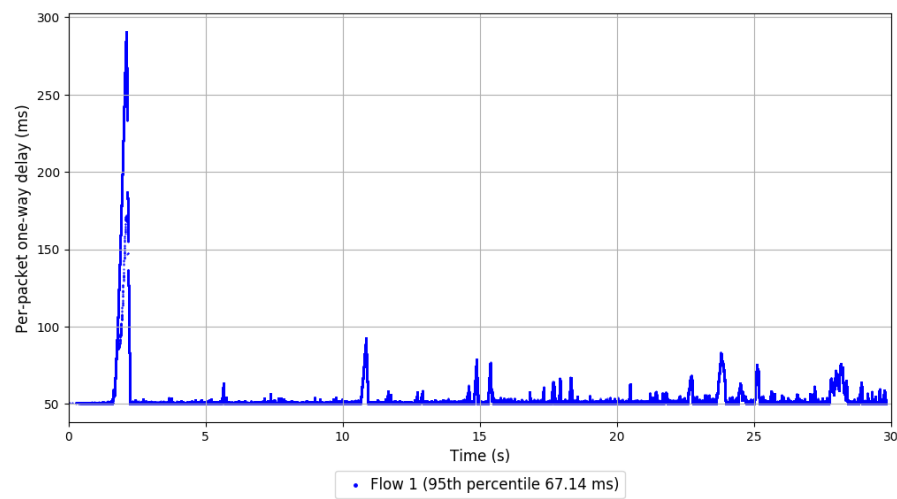
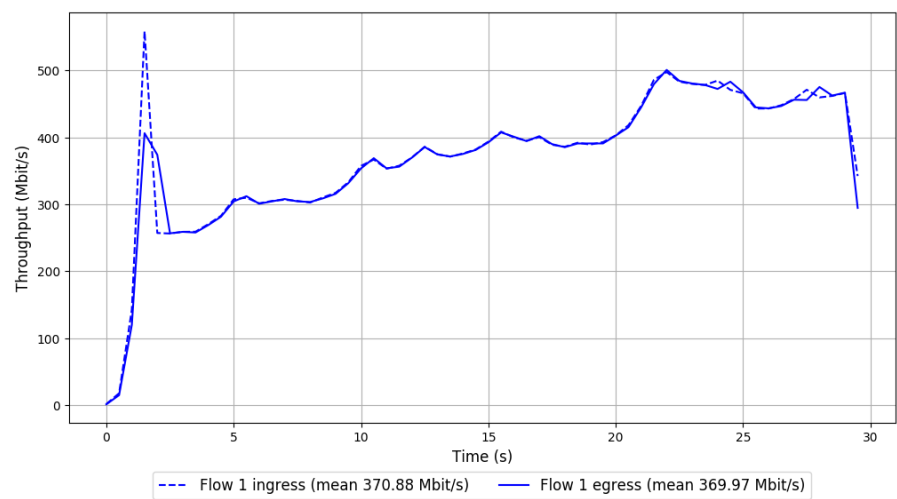
-- Flow 1:

Average throughput: 369.97 Mbit/s

95th percentile per-packet one-way delay: 67.138 ms

Loss rate: 0.58%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-27 16:54:57

End at: 2018-02-27 16:55:27

Below is generated by plot.py at 2018-02-27 20:16:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 477.69 Mbit/s

95th percentile per-packet one-way delay: 111.332 ms

Loss rate: 1.78%

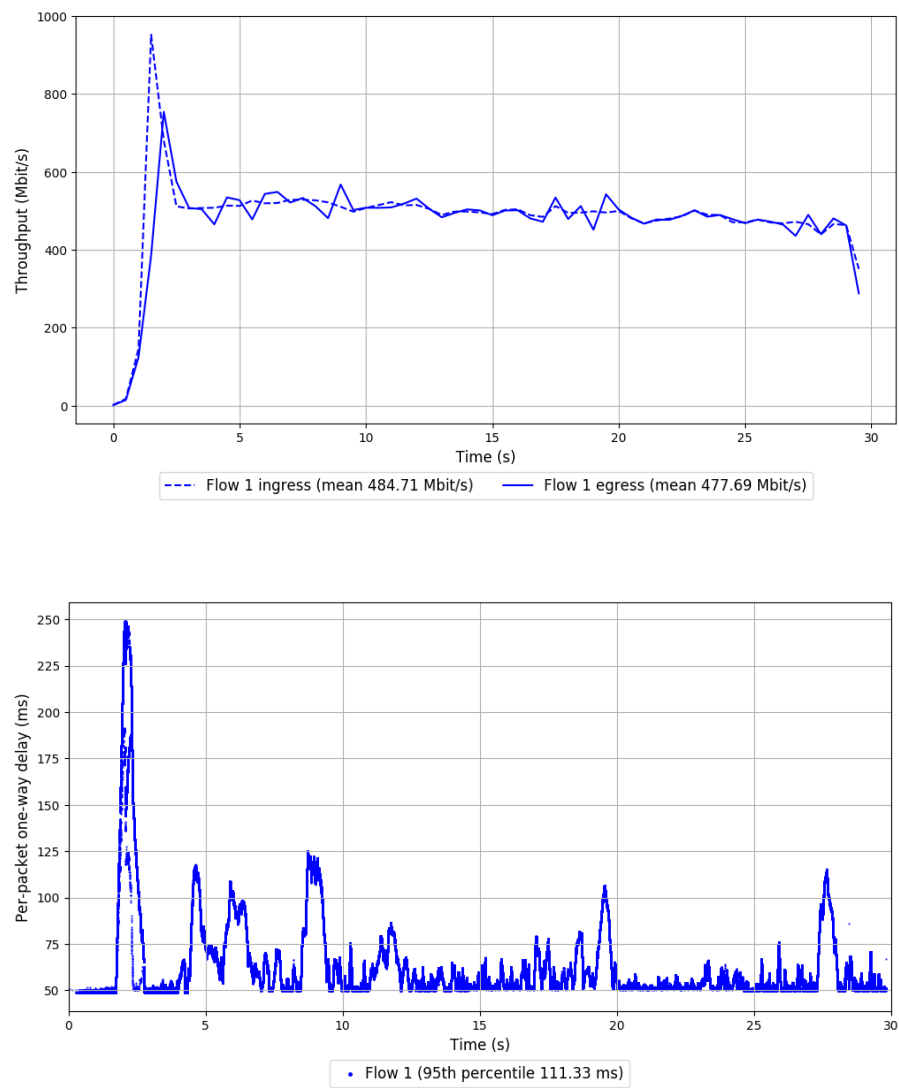
-- Flow 1:

Average throughput: 477.69 Mbit/s

95th percentile per-packet one-way delay: 111.332 ms

Loss rate: 1.78%

Run 10: Report of PCC — Data Link

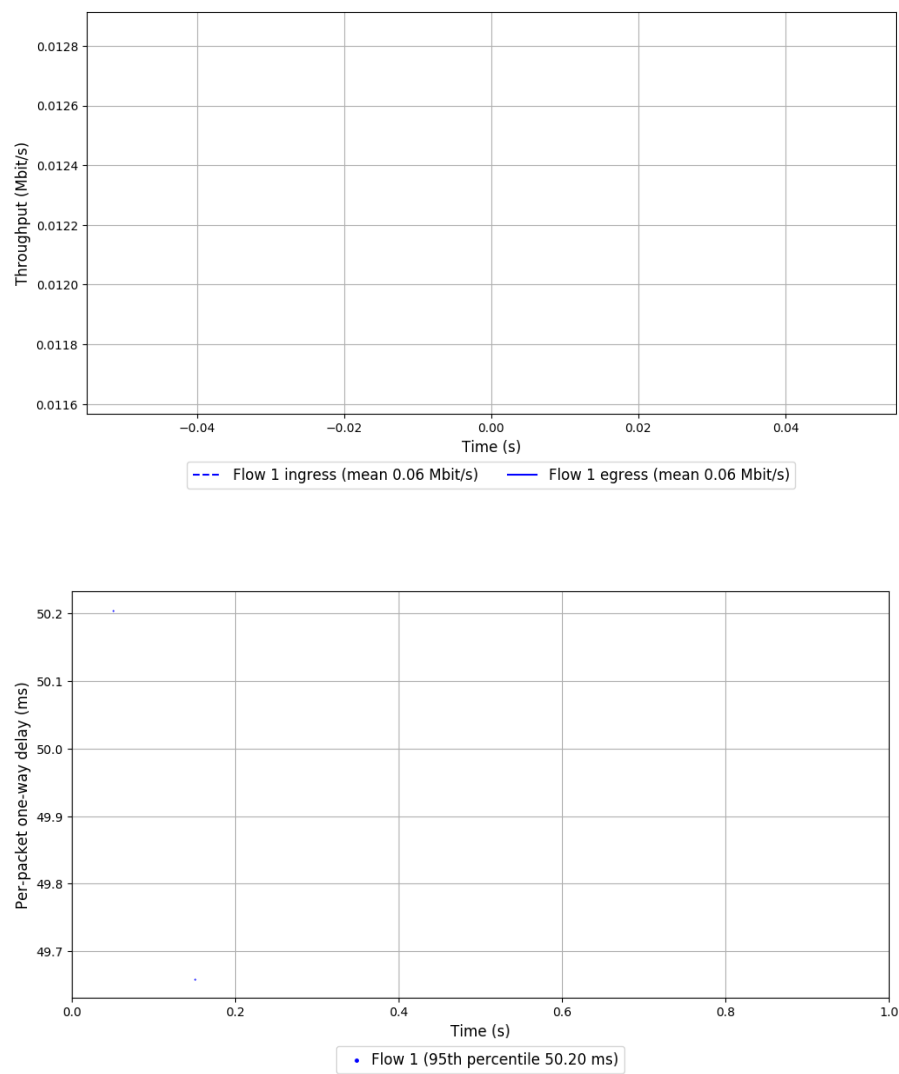


Run 1: Statistics of QUIC Cubic

Start at: 2018-02-27 14:34:20

End at: 2018-02-27 14:34:50

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-27 14:48:59

End at: 2018-02-27 14:49:29

Below is generated by plot.py at 2018-02-27 20:16:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.79 Mbit/s

95th percentile per-packet one-way delay: 50.446 ms

Loss rate: 0.59%

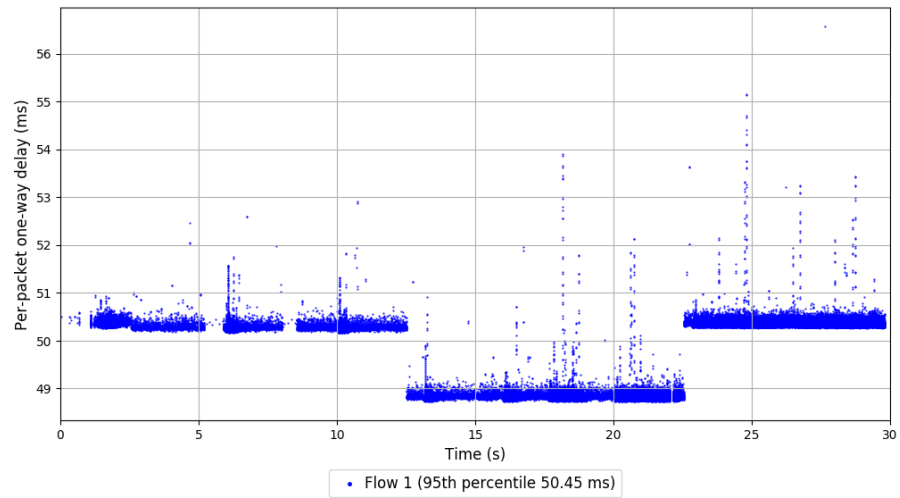
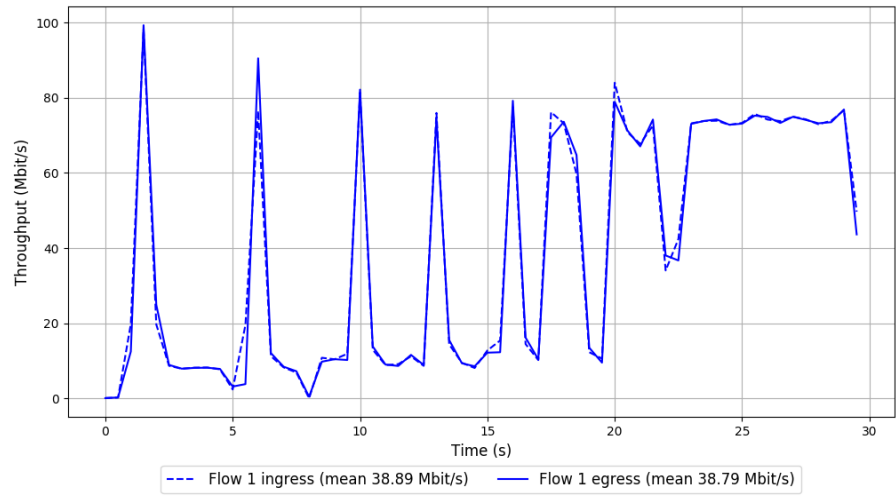
-- Flow 1:

Average throughput: 38.79 Mbit/s

95th percentile per-packet one-way delay: 50.446 ms

Loss rate: 0.59%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-27 15:03:36

End at: 2018-02-27 15:04:06

Below is generated by plot.py at 2018-02-27 20:16:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.76 Mbit/s

95th percentile per-packet one-way delay: 50.737 ms

Loss rate: 0.37%

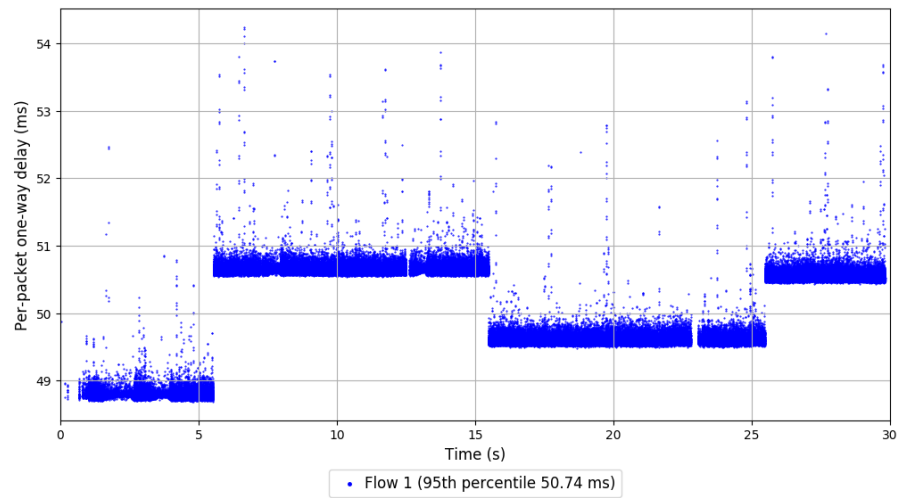
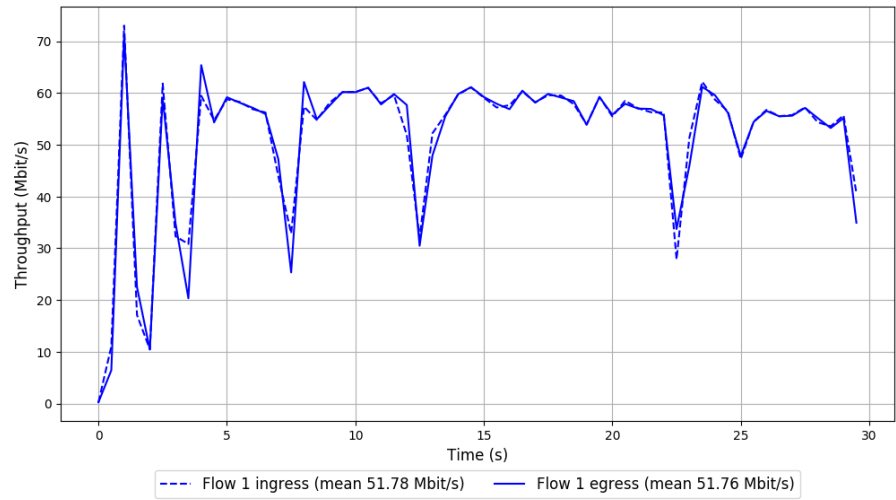
-- Flow 1:

Average throughput: 51.76 Mbit/s

95th percentile per-packet one-way delay: 50.737 ms

Loss rate: 0.37%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-27 15:18:22

End at: 2018-02-27 15:18:52

Below is generated by plot.py at 2018-02-27 20:16:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.87 Mbit/s

95th percentile per-packet one-way delay: 49.681 ms

Loss rate: 0.48%

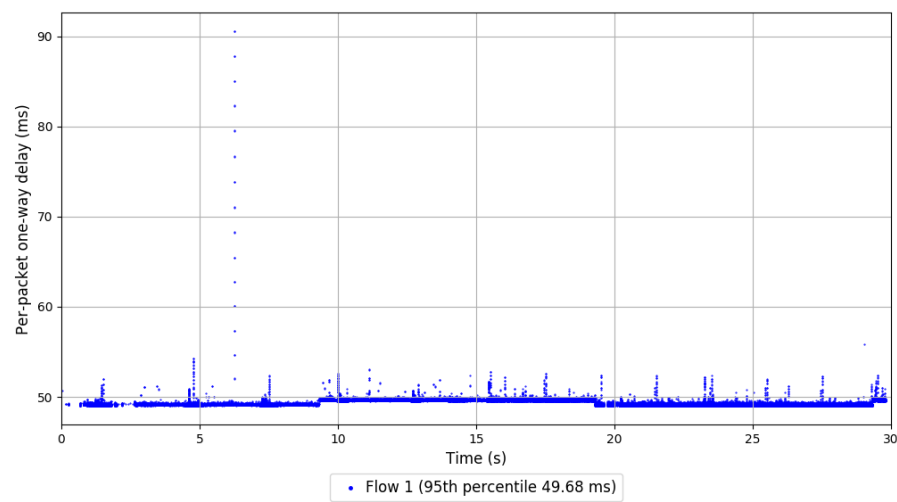
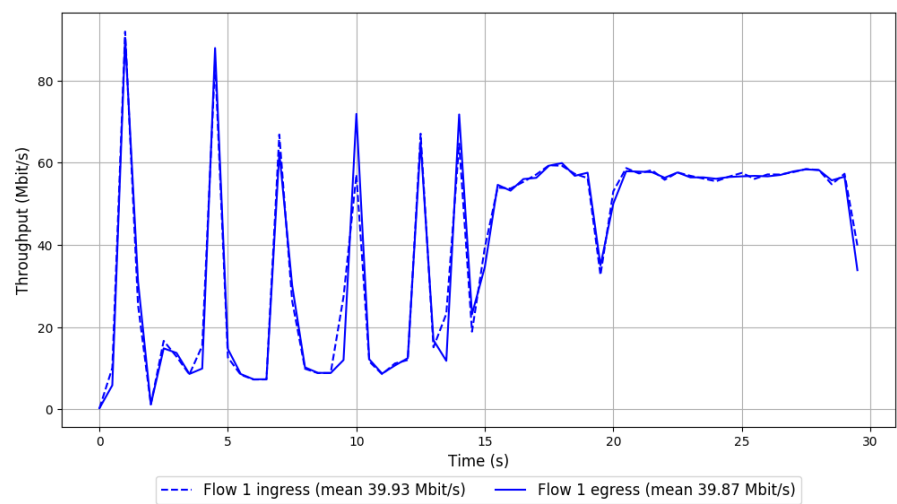
-- Flow 1:

Average throughput: 39.87 Mbit/s

95th percentile per-packet one-way delay: 49.681 ms

Loss rate: 0.48%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-27 15:33:02

End at: 2018-02-27 15:33:32

Below is generated by plot.py at 2018-02-27 20:16:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.44 Mbit/s

95th percentile per-packet one-way delay: 50.624 ms

Loss rate: 0.48%

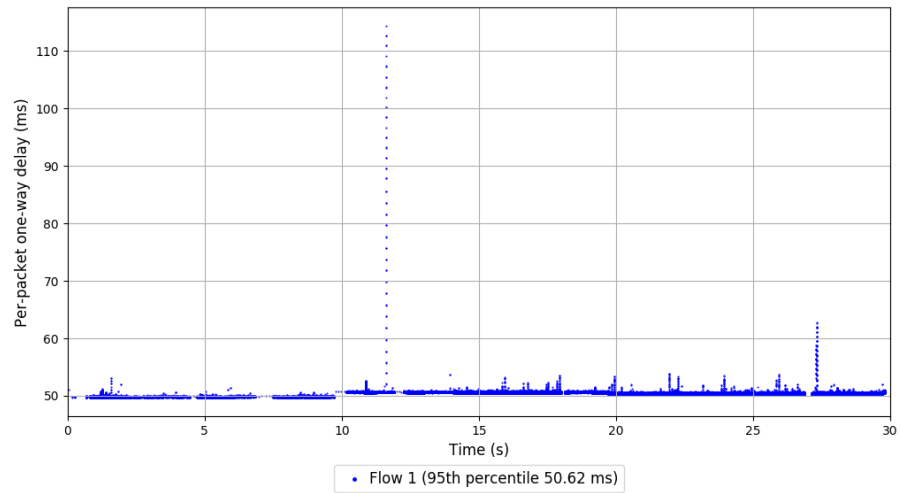
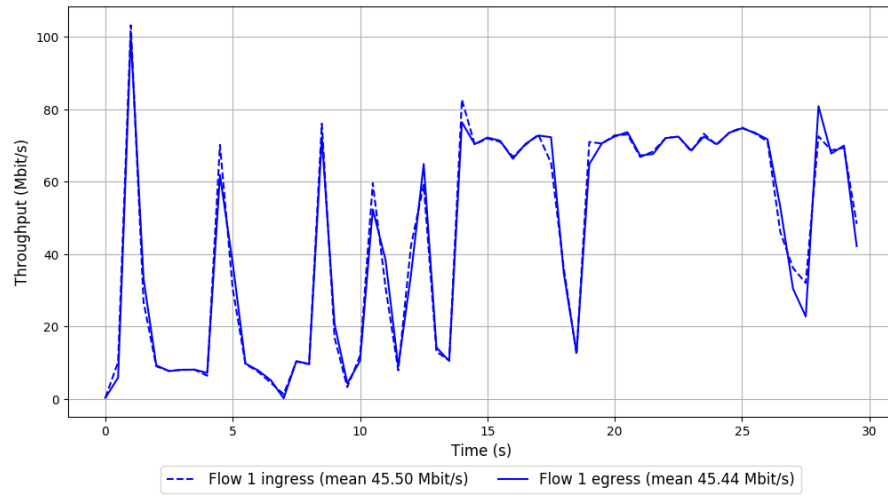
-- Flow 1:

Average throughput: 45.44 Mbit/s

95th percentile per-packet one-way delay: 50.624 ms

Loss rate: 0.48%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-27 15:47:42

End at: 2018-02-27 15:48:12

Below is generated by plot.py at 2018-02-27 20:16:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.35 Mbit/s

95th percentile per-packet one-way delay: 50.442 ms

Loss rate: 0.56%

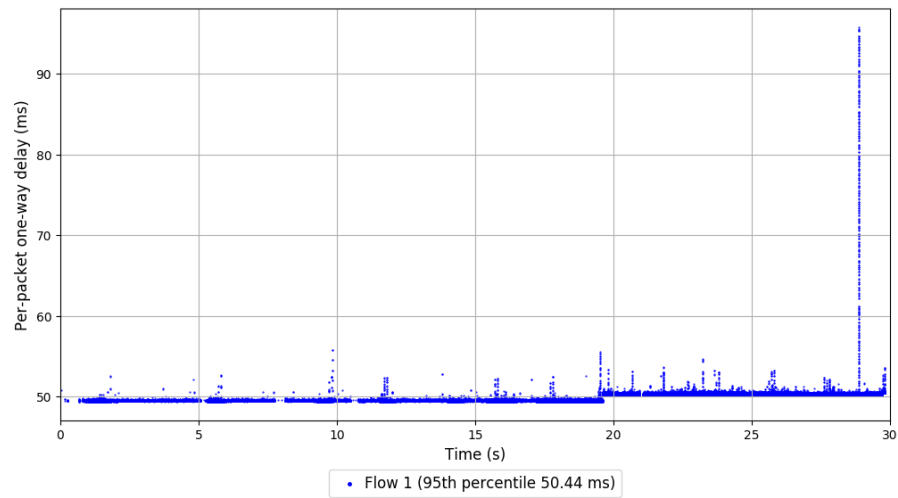
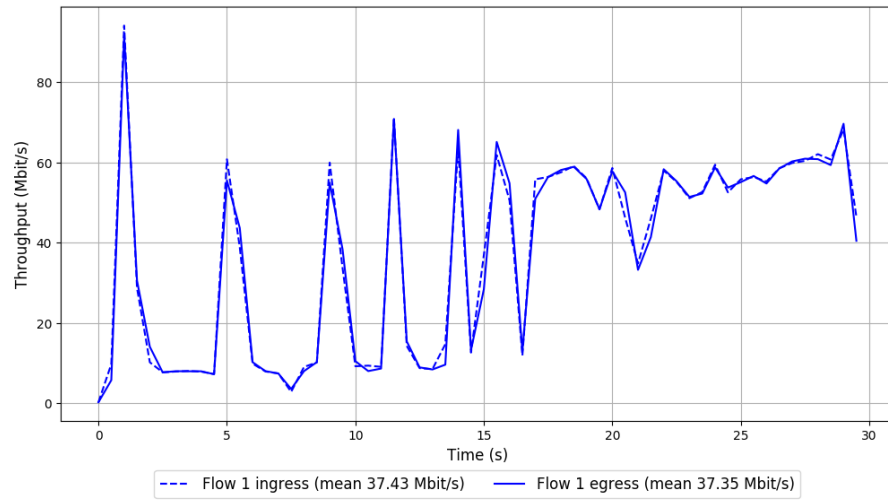
-- Flow 1:

Average throughput: 37.35 Mbit/s

95th percentile per-packet one-way delay: 50.442 ms

Loss rate: 0.56%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

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

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

Below is generated by plot.py at 2018-02-27 20:16:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.93 Mbit/s

95th percentile per-packet one-way delay: 50.664 ms

Loss rate: 0.50%

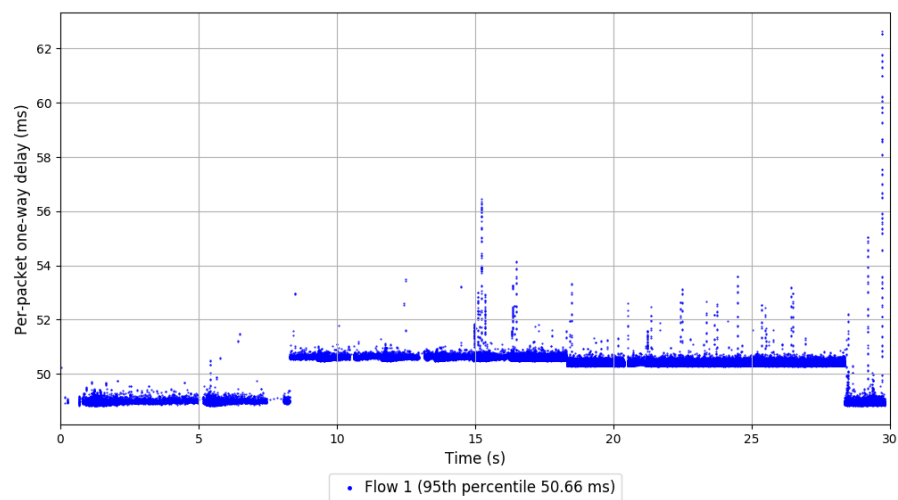
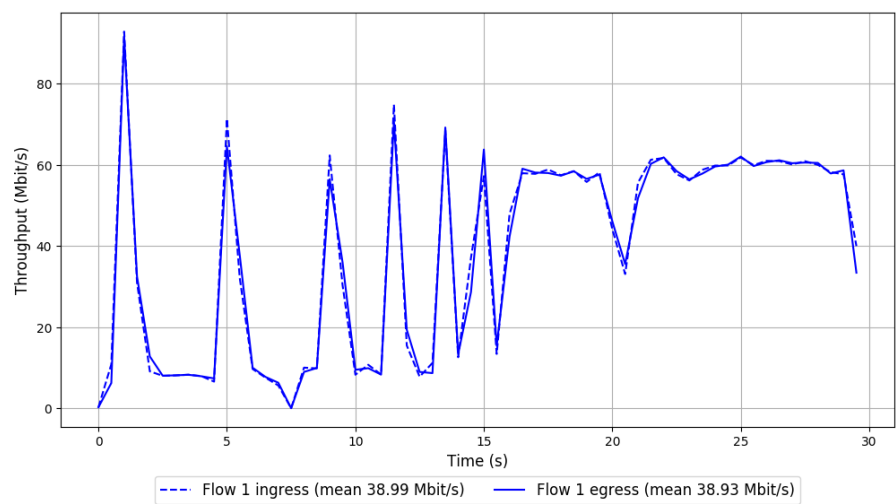
-- Flow 1:

Average throughput: 38.93 Mbit/s

95th percentile per-packet one-way delay: 50.664 ms

Loss rate: 0.50%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-27 16:17:01

End at: 2018-02-27 16:17:31

Below is generated by plot.py at 2018-02-27 20:16:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.18 Mbit/s

95th percentile per-packet one-way delay: 50.753 ms

Loss rate: 0.45%

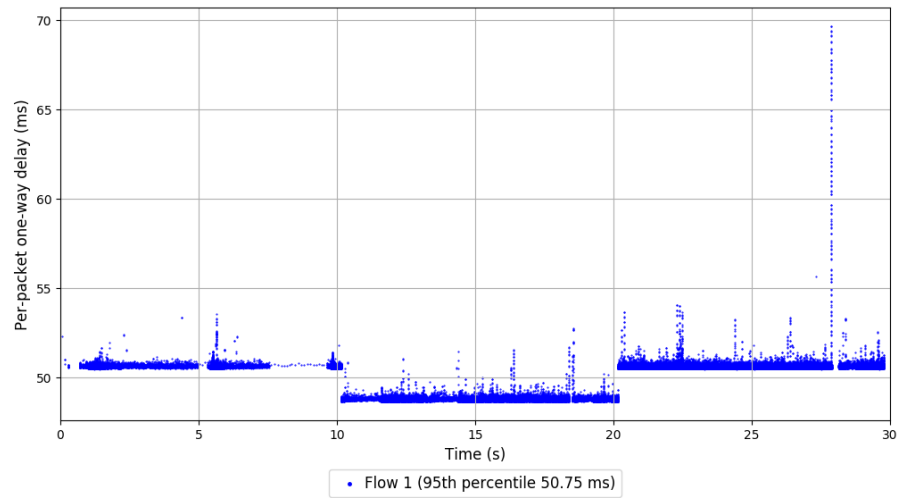
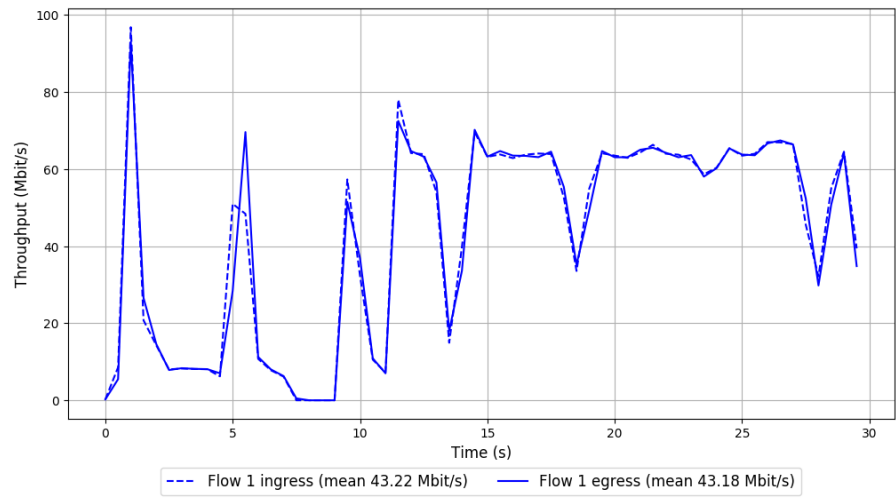
-- Flow 1:

Average throughput: 43.18 Mbit/s

95th percentile per-packet one-way delay: 50.753 ms

Loss rate: 0.45%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-27 16:31:48

End at: 2018-02-27 16:32:18

Below is generated by plot.py at 2018-02-27 20:16:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.37 Mbit/s

95th percentile per-packet one-way delay: 50.361 ms

Loss rate: 0.59%

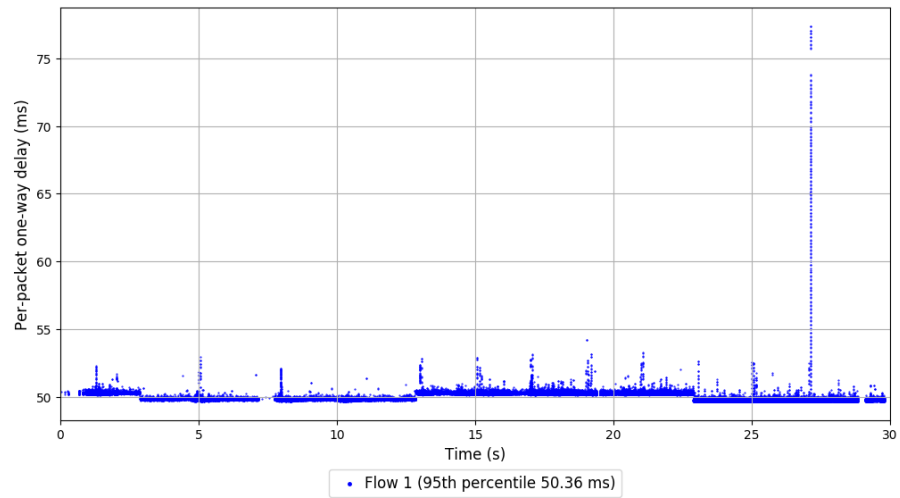
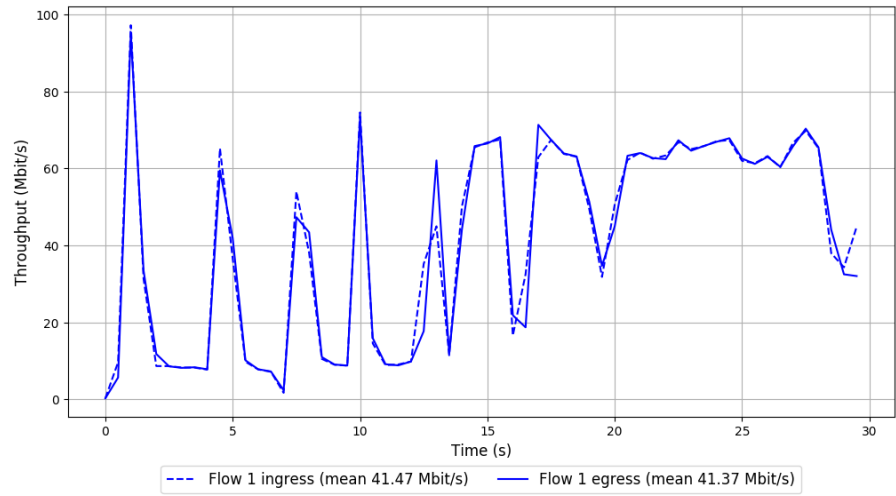
-- Flow 1:

Average throughput: 41.37 Mbit/s

95th percentile per-packet one-way delay: 50.361 ms

Loss rate: 0.59%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-02-27 16:46:31

End at: 2018-02-27 16:47:01

Below is generated by plot.py at 2018-02-27 20:16:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.83 Mbit/s

95th percentile per-packet one-way delay: 51.002 ms

Loss rate: 0.49%

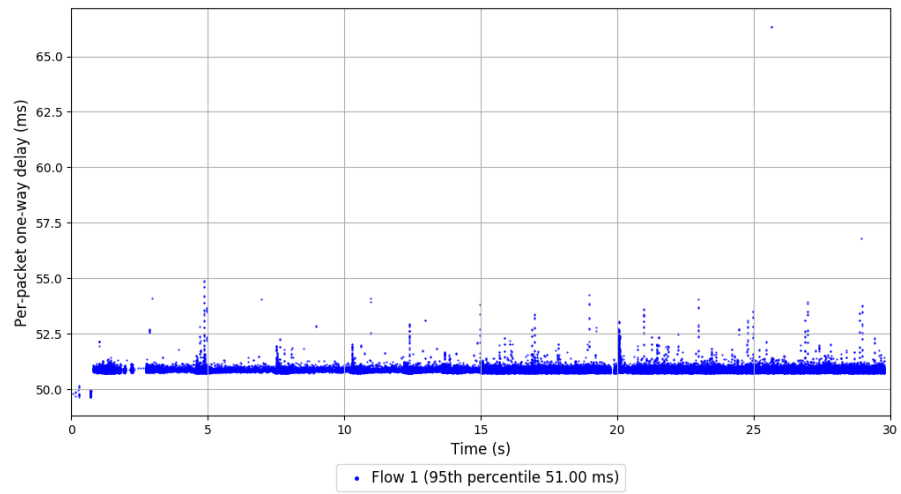
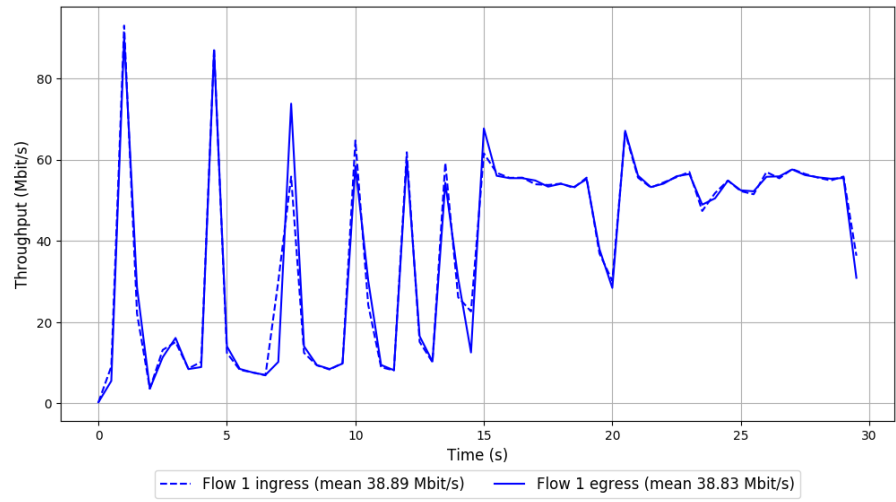
-- Flow 1:

Average throughput: 38.83 Mbit/s

95th percentile per-packet one-way delay: 51.002 ms

Loss rate: 0.49%

Run 10: Report of QUIC Cubic — Data Link

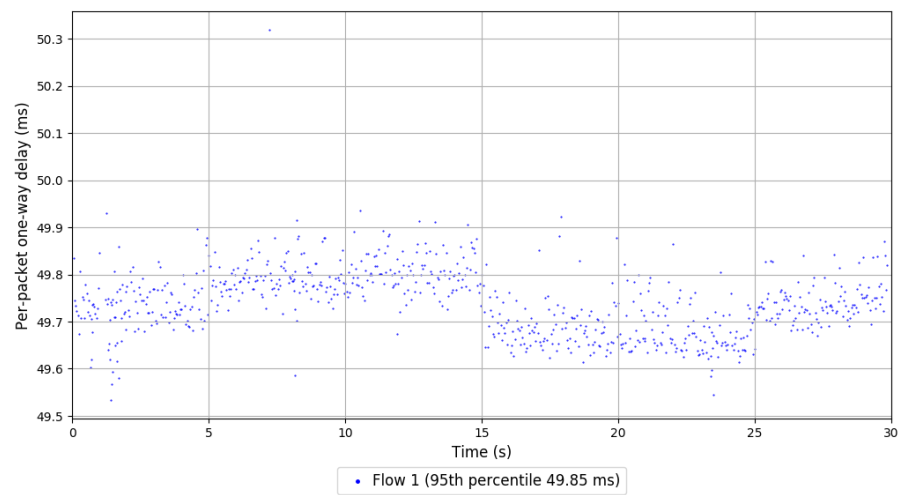
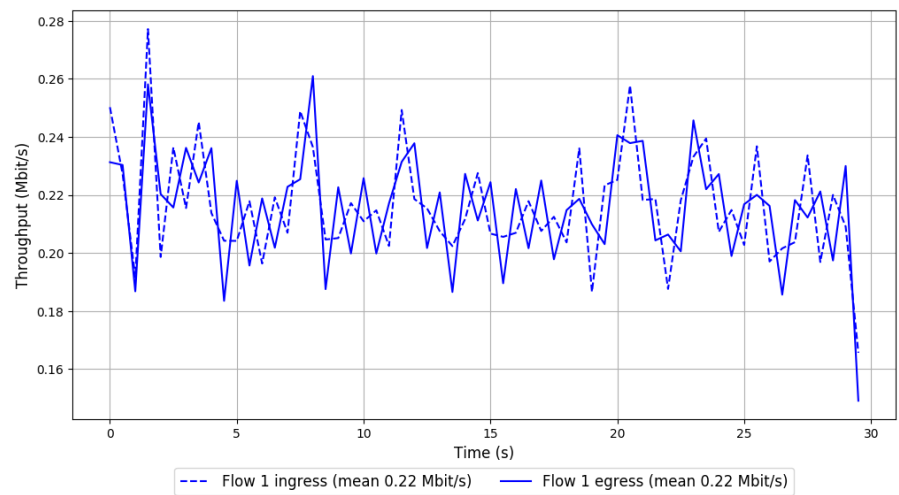


```
Run 1: Statistics of SCReAM

Start at: 2018-02-27 14:30:26
End at: 2018-02-27 14:30:56

# Below is generated by plot.py at 2018-02-27 20:16:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.852 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.852 ms
Loss rate: 0.25%
```

Run 1: Report of SReAM — Data Link

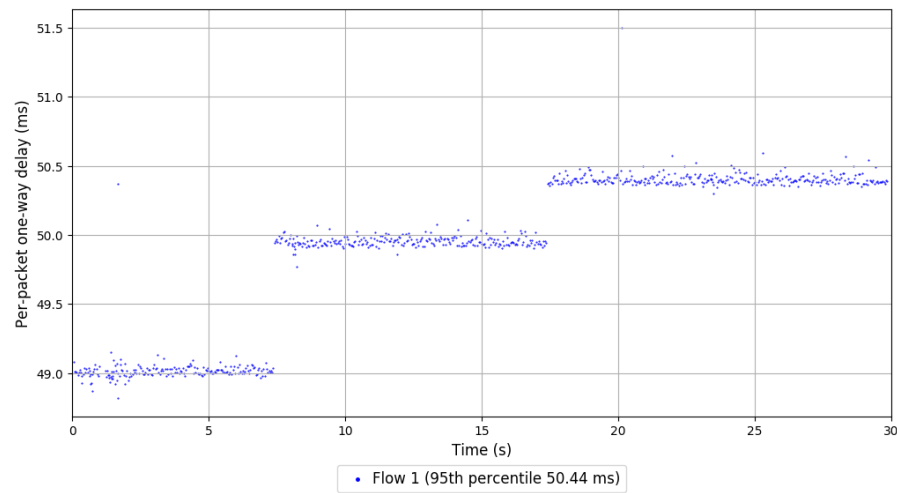
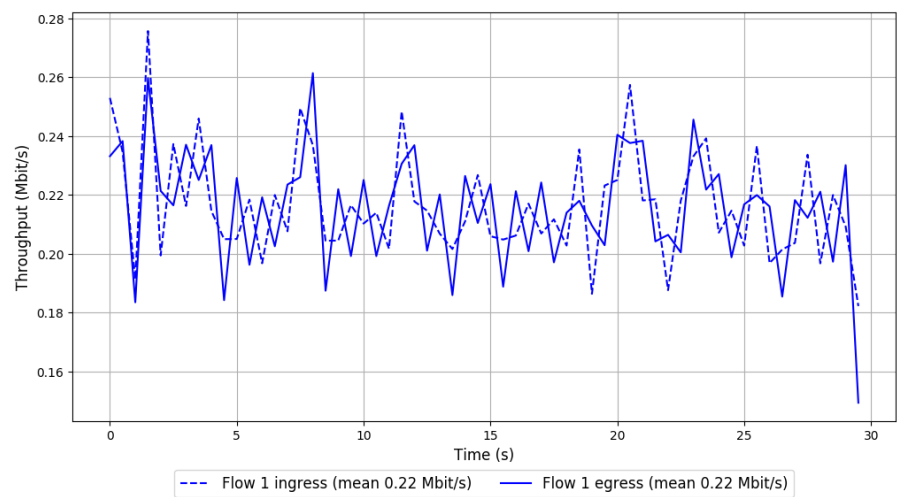


```
Run 2: Statistics of SCReAM

Start at: 2018-02-27 14:45:04
End at: 2018-02-27 14:45:34

# Below is generated by plot.py at 2018-02-27 20:16:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.444 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.444 ms
Loss rate: 0.38%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-02-27 14:59:48

End at: 2018-02-27 15:00:18

Below is generated by plot.py at 2018-02-27 20:16:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.709 ms

Loss rate: 0.38%

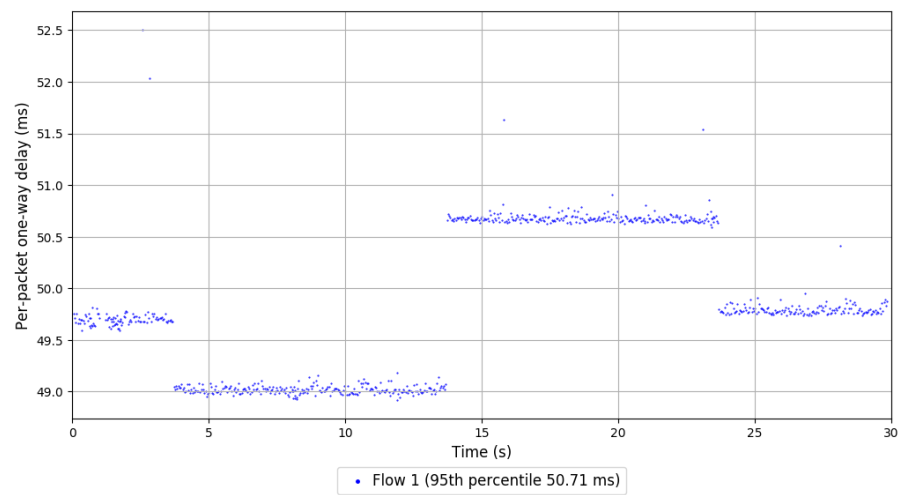
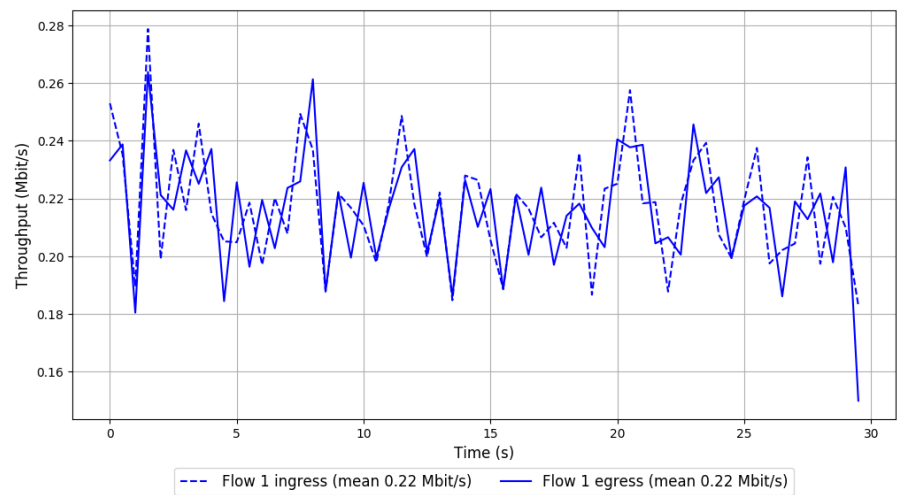
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.709 ms

Loss rate: 0.38%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-02-27 15:14:26

End at: 2018-02-27 15:14:56

Below is generated by plot.py at 2018-02-27 20:16:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.025 ms

Loss rate: 0.38%

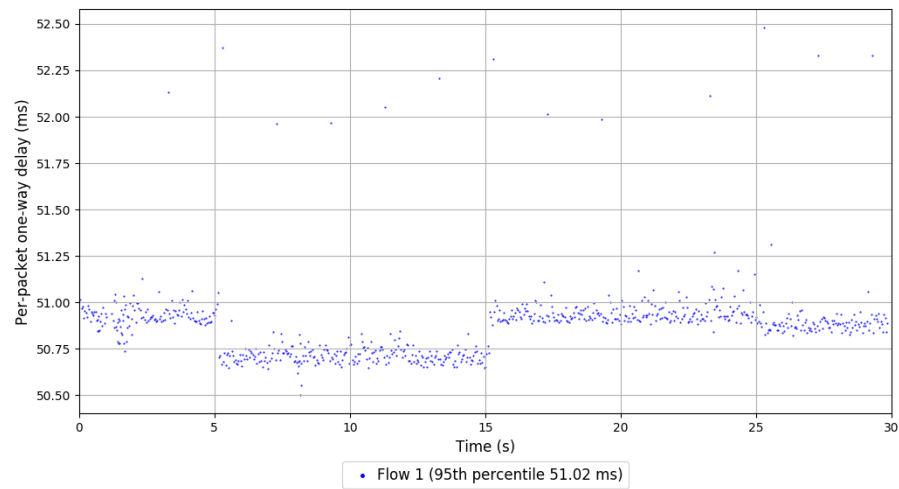
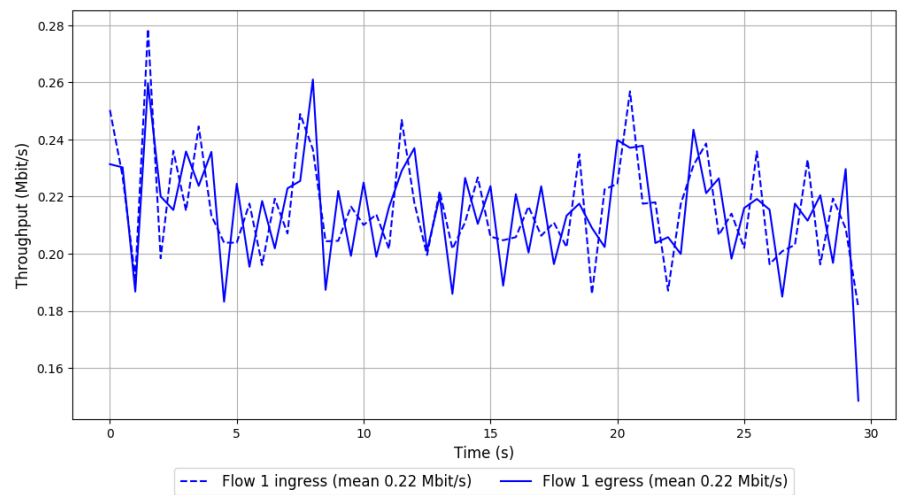
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.025 ms

Loss rate: 0.38%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-27 15:29:14

End at: 2018-02-27 15:29:44

Below is generated by plot.py at 2018-02-27 20:16:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.388 ms

Loss rate: 0.26%

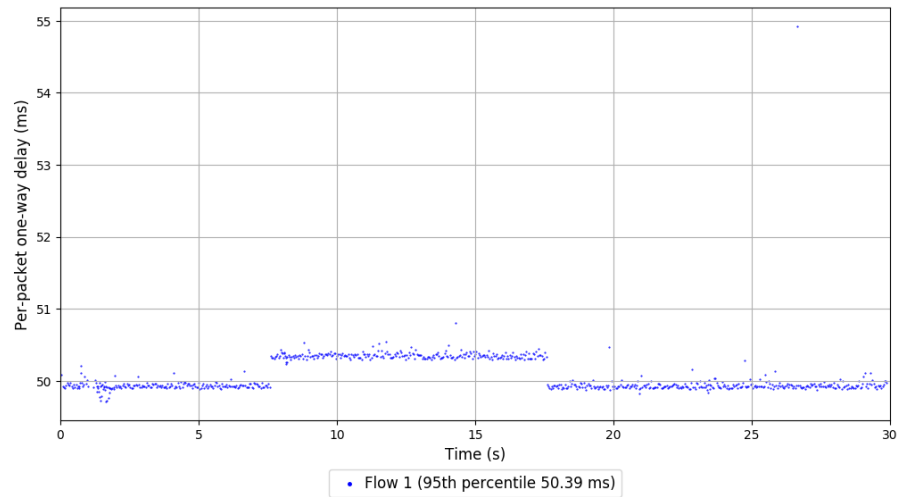
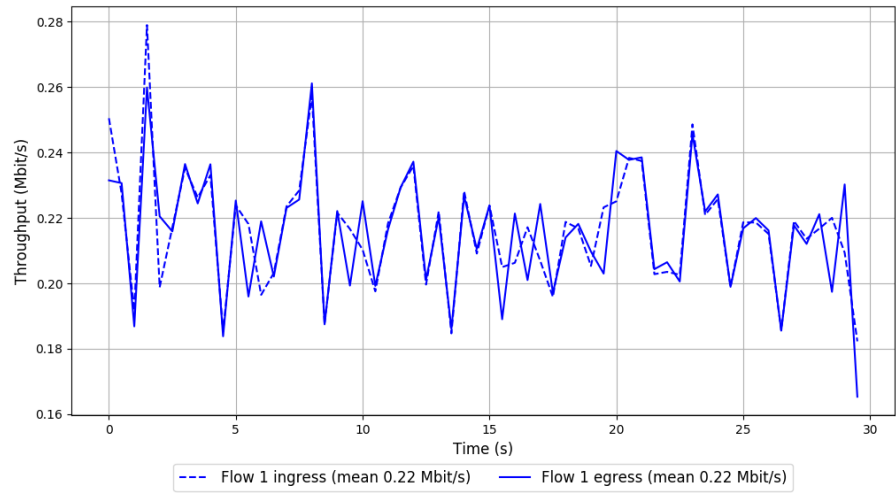
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.388 ms

Loss rate: 0.26%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-02-27 15:43:48

End at: 2018-02-27 15:44:18

Below is generated by plot.py at 2018-02-27 20:16:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.362 ms

Loss rate: 0.38%

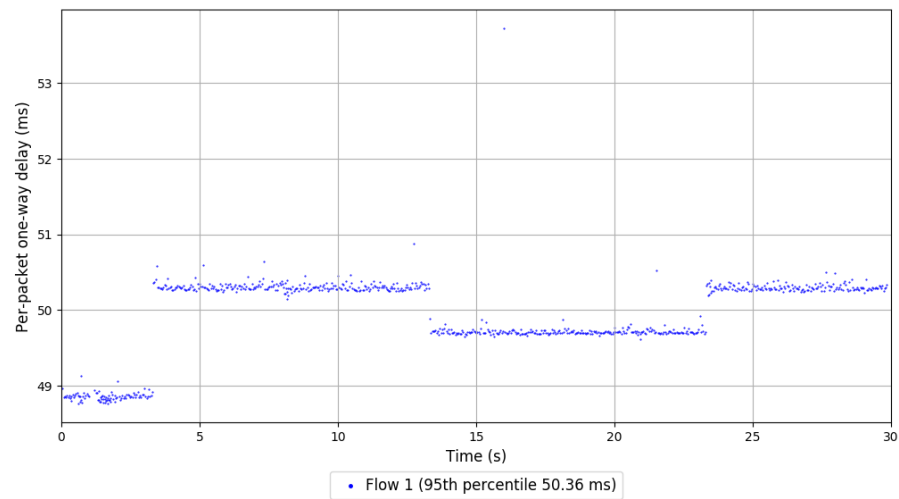
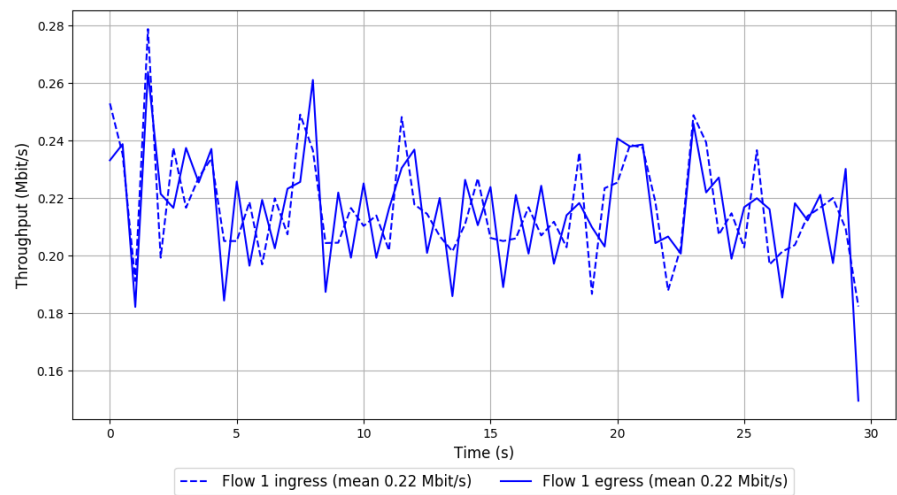
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.362 ms

Loss rate: 0.38%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-02-27 15:58:30

End at: 2018-02-27 15:59:00

Below is generated by plot.py at 2018-02-27 20:16:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.26%

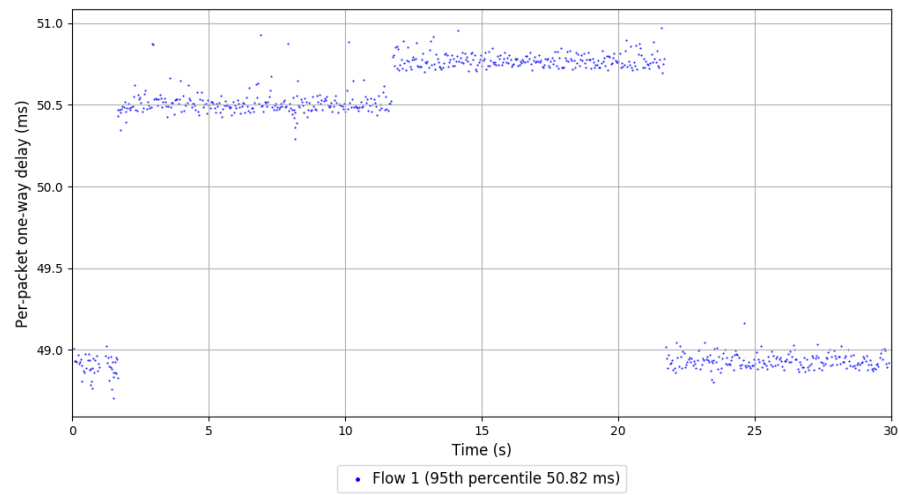
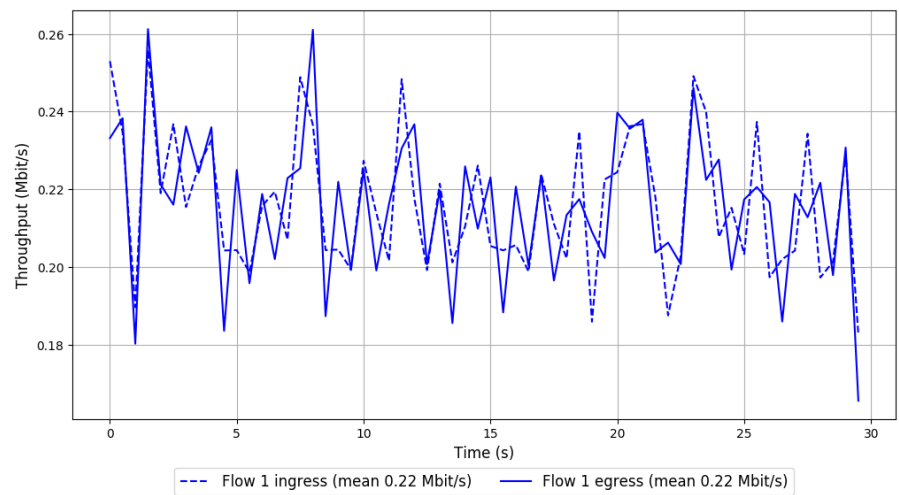
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.26%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-27 16:13:14

End at: 2018-02-27 16:13:44

Below is generated by plot.py at 2018-02-27 20:16:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.760 ms

Loss rate: 0.38%

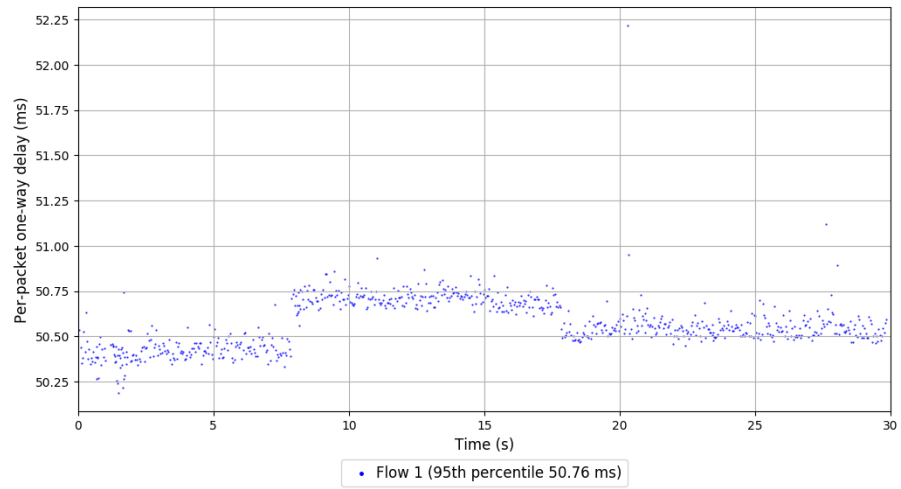
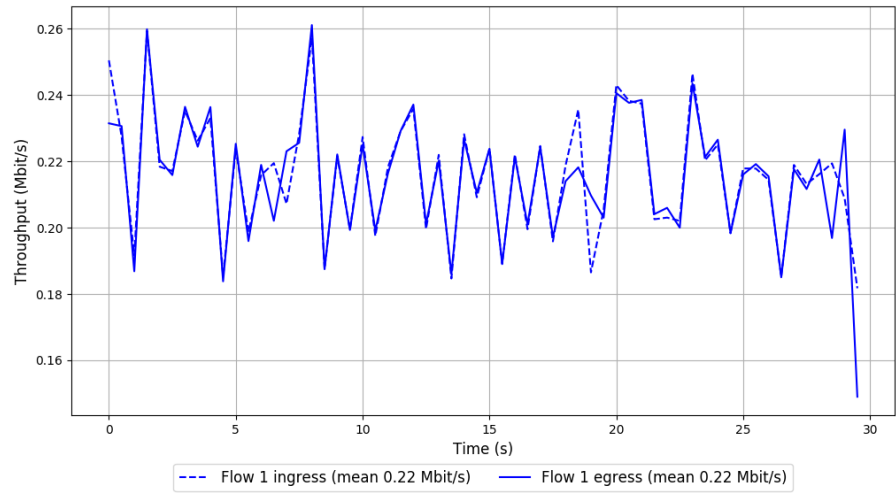
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.760 ms

Loss rate: 0.38%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-02-27 16:27:54

End at: 2018-02-27 16:28:24

Below is generated by plot.py at 2018-02-27 20:16:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.991 ms

Loss rate: 0.38%

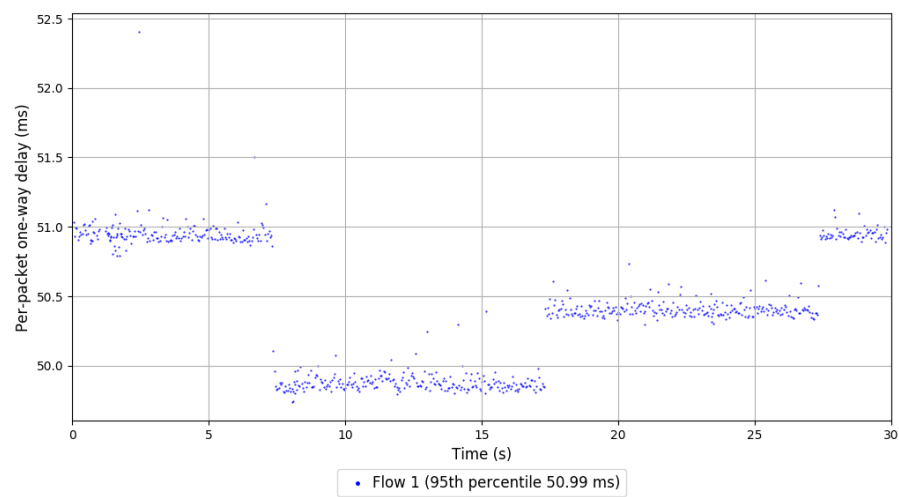
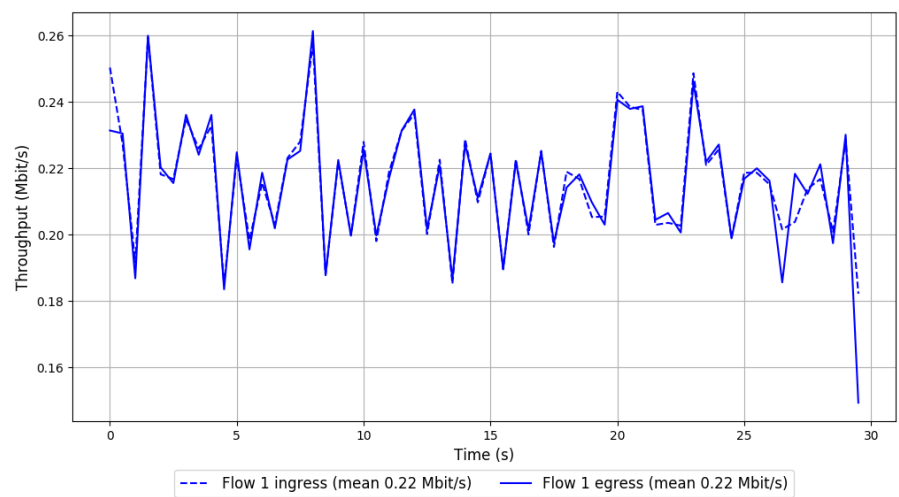
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.991 ms

Loss rate: 0.38%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-27 16:42:34

End at: 2018-02-27 16:43:04

Below is generated by plot.py at 2018-02-27 20:16:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.896 ms

Loss rate: 0.38%

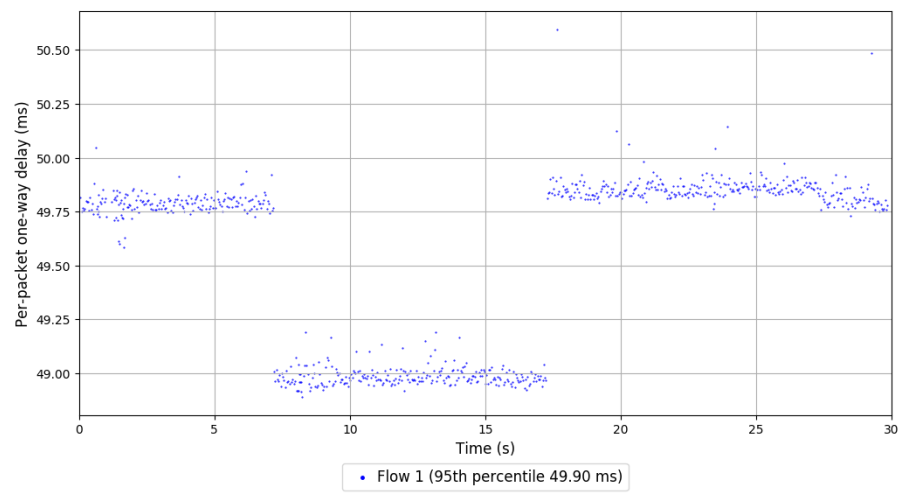
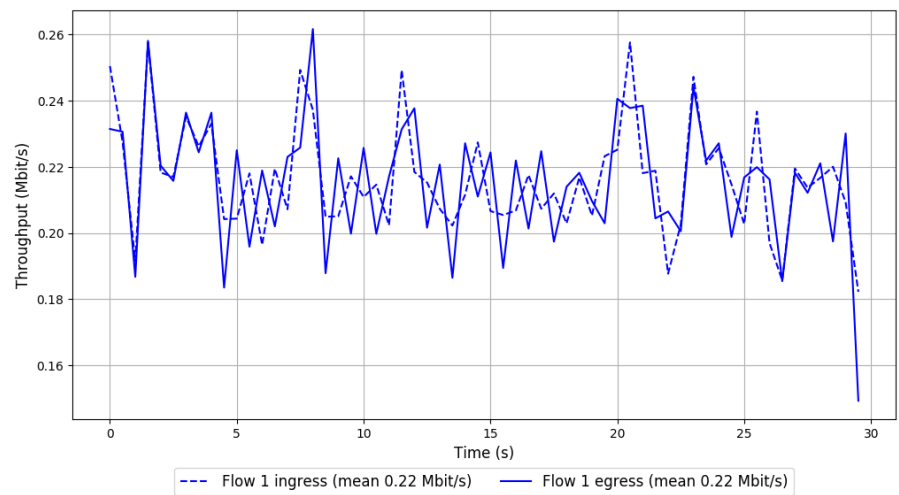
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.896 ms

Loss rate: 0.38%

Run 10: Report of SReAM — Data Link

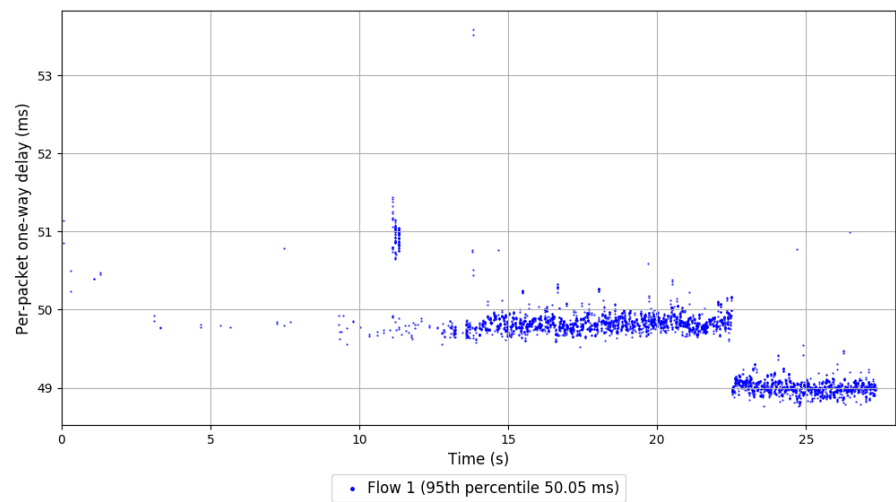
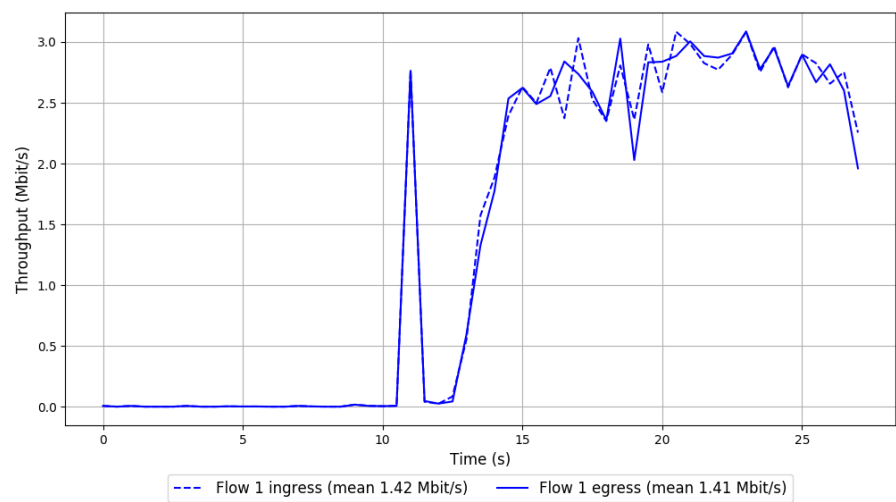


```
Run 1: Statistics of WebRTC media

Start at: 2018-02-27 14:34:56
End at: 2018-02-27 14:35:26

# Below is generated by plot.py at 2018-02-27 20:16:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.41 Mbit/s
95th percentile per-packet one-way delay: 50.046 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 1.41 Mbit/s
95th percentile per-packet one-way delay: 50.046 ms
Loss rate: 0.85%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-27 14:49:38

End at: 2018-02-27 14:50:08

Below is generated by plot.py at 2018-02-27 20:16:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

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

Loss rate: 0.44%

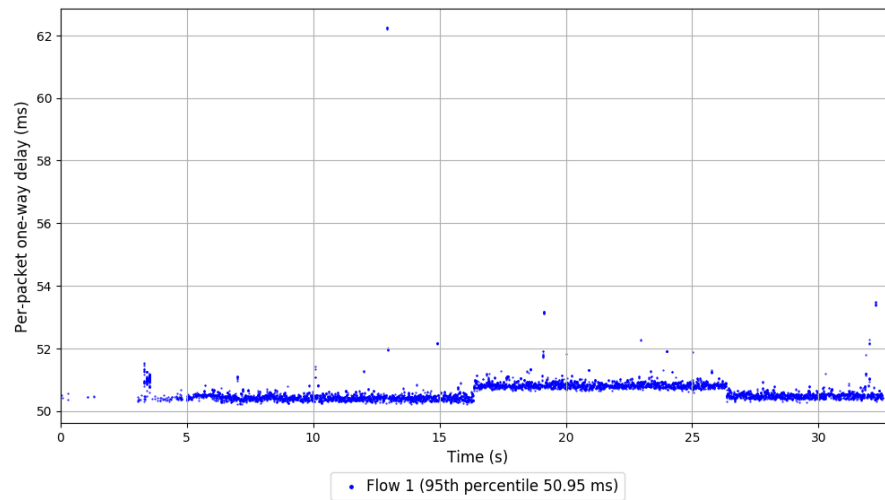
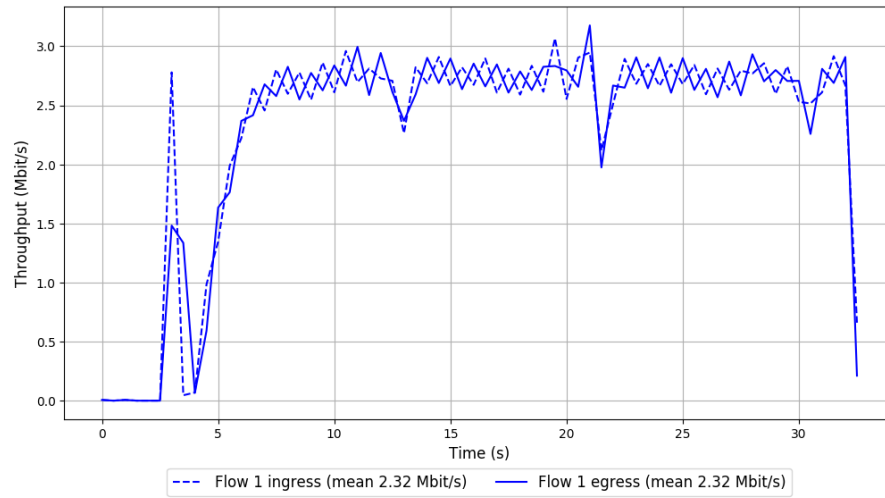
-- Flow 1:

Average throughput: 2.32 Mbit/s

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

Loss rate: 0.44%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-27 15:04:16

End at: 2018-02-27 15:04:46

Below is generated by plot.py at 2018-02-27 20:16:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 50.769 ms

Loss rate: 0.43%

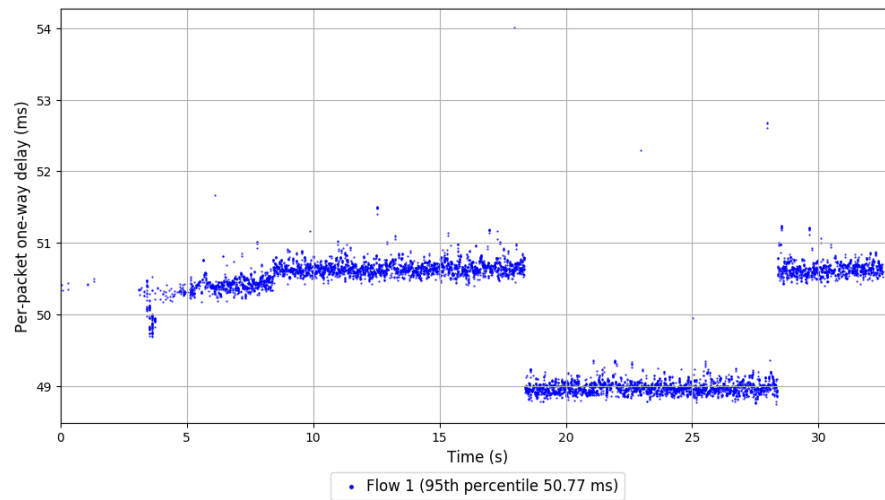
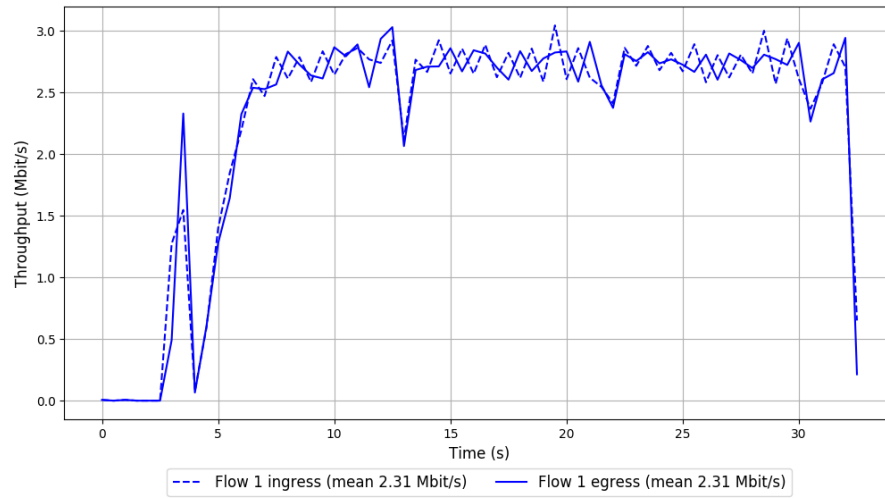
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 50.769 ms

Loss rate: 0.43%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-27 15:19:01

End at: 2018-02-27 15:19:31

Below is generated by plot.py at 2018-02-27 20:16:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 49.862 ms

Loss rate: 0.44%

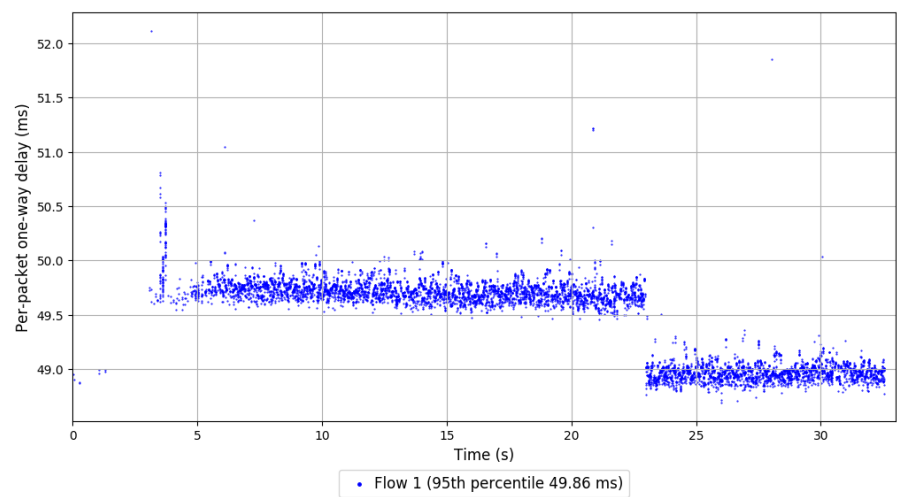
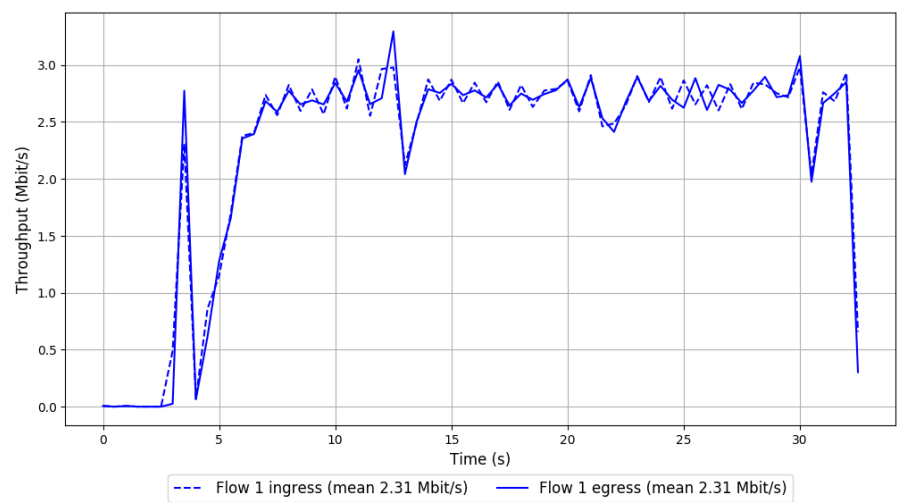
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 49.862 ms

Loss rate: 0.44%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-27 15:33:41

End at: 2018-02-27 15:34:11

Below is generated by plot.py at 2018-02-27 20:16:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 50.455 ms

Loss rate: 0.40%

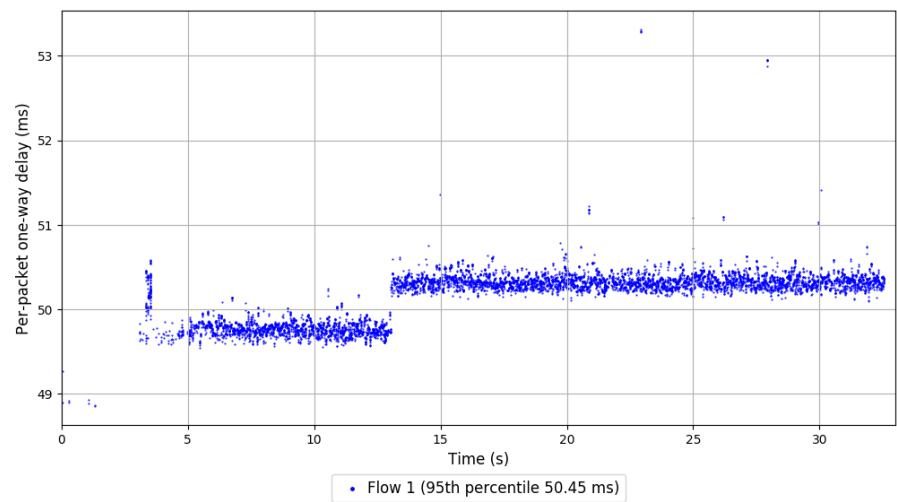
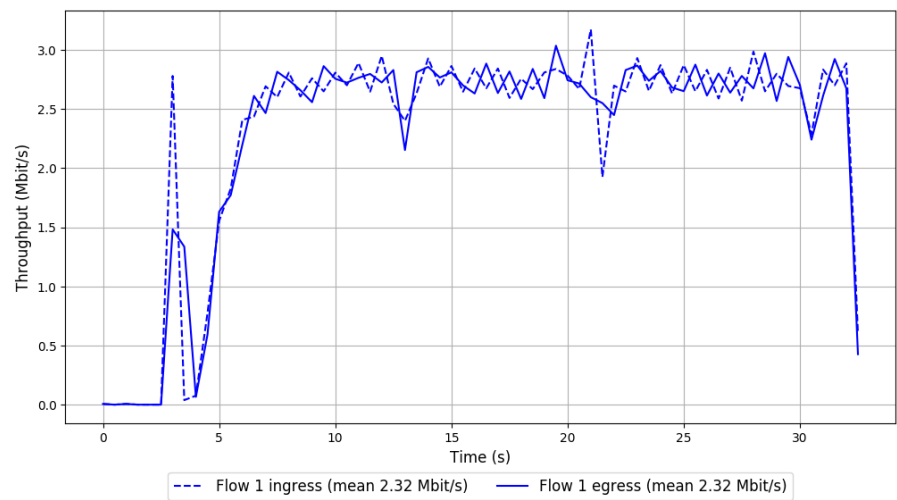
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 50.455 ms

Loss rate: 0.40%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-27 15:48:21

End at: 2018-02-27 15:48:51

Below is generated by plot.py at 2018-02-27 20:16:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 51.159 ms

Loss rate: 0.43%

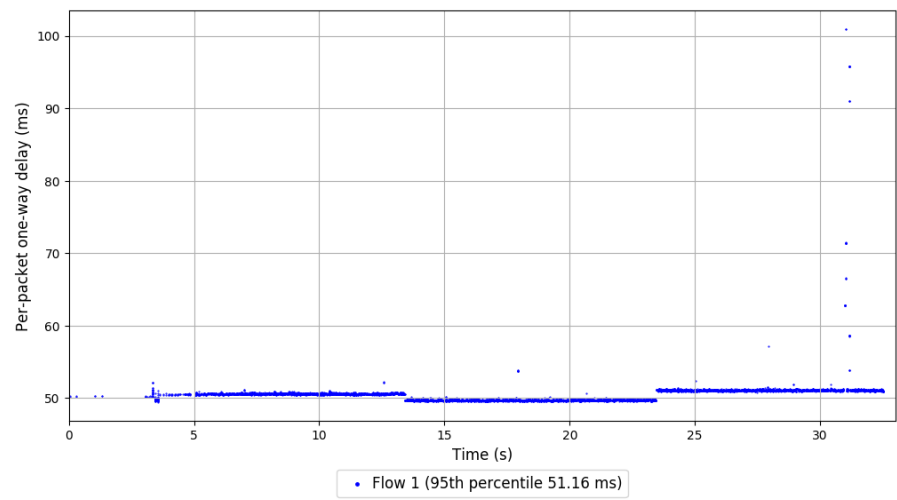
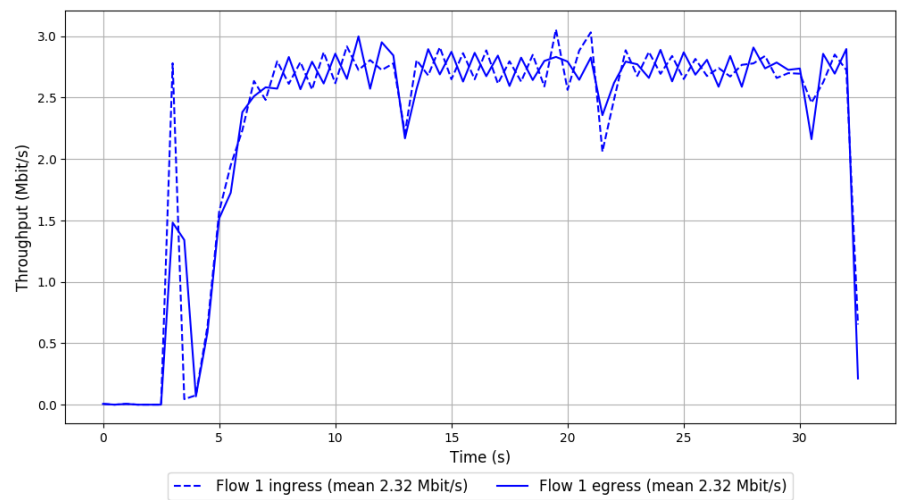
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 51.159 ms

Loss rate: 0.43%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-27 16:03:02

End at: 2018-02-27 16:03:32

Below is generated by plot.py at 2018-02-27 20:16:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

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

Loss rate: 0.29%

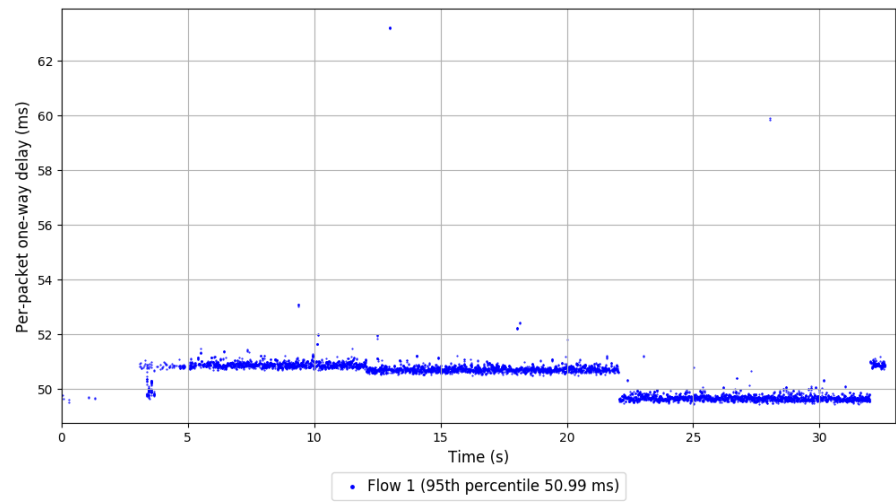
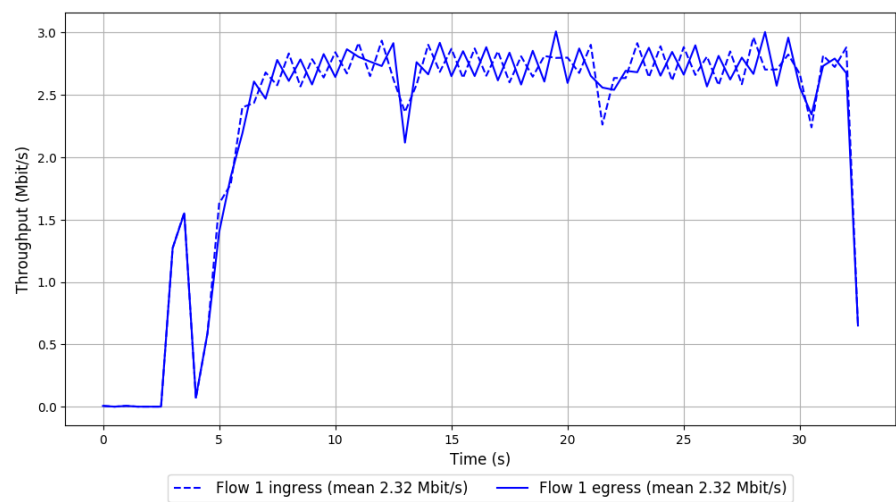
-- Flow 1:

Average throughput: 2.32 Mbit/s

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

Loss rate: 0.29%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-27 16:17:40

End at: 2018-02-27 16:18:11

Below is generated by plot.py at 2018-02-27 20:16:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 51.021 ms

Loss rate: 0.43%

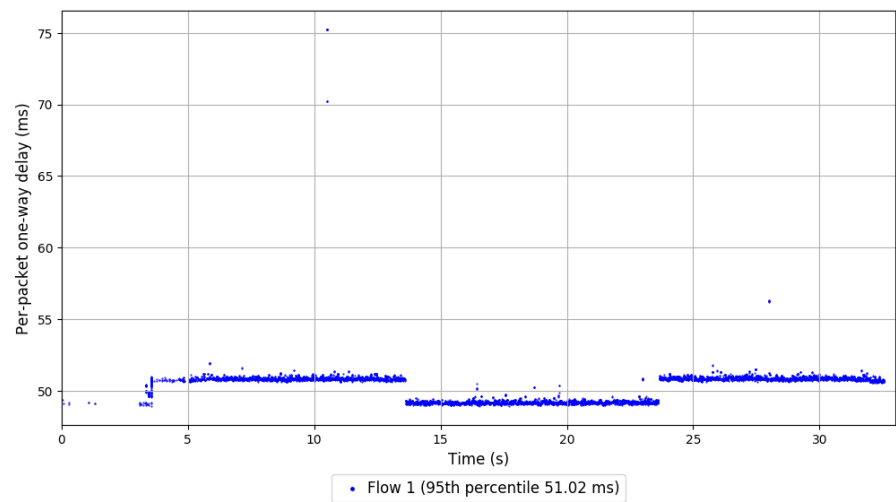
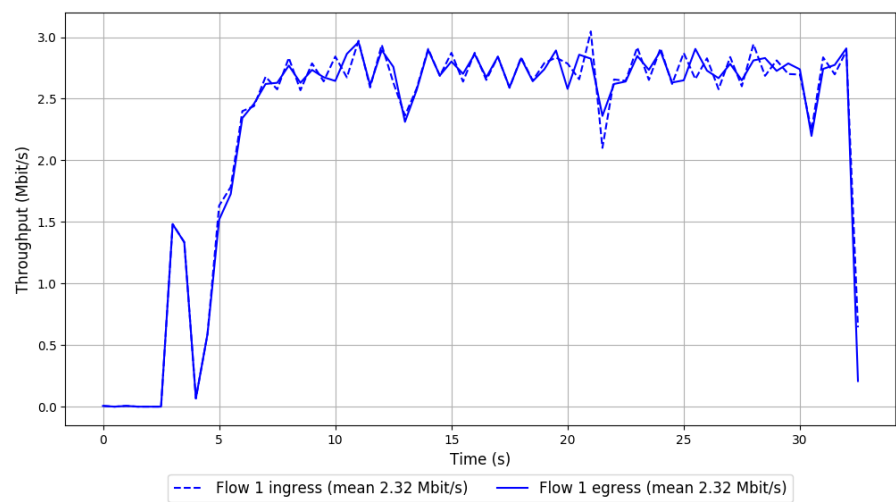
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 51.021 ms

Loss rate: 0.43%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-27 16:32:28

End at: 2018-02-27 16:32:58

Below is generated by plot.py at 2018-02-27 20:16:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 50.884 ms

Loss rate: 0.28%

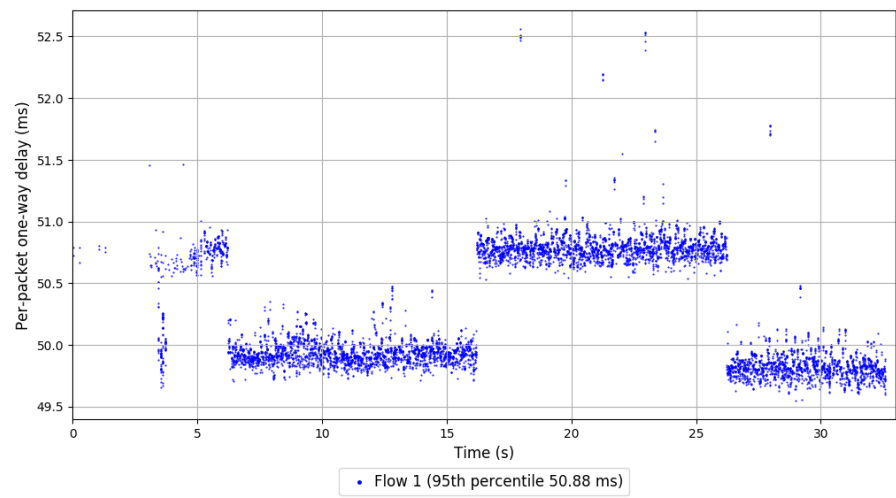
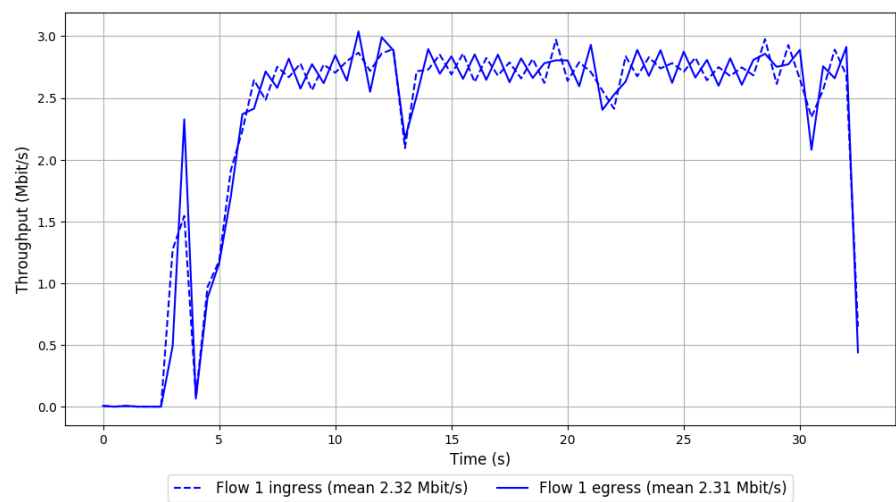
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 50.884 ms

Loss rate: 0.28%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-27 16:47:10

End at: 2018-02-27 16:47:40

Below is generated by plot.py at 2018-02-27 20:16:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 50.084 ms

Loss rate: 0.43%

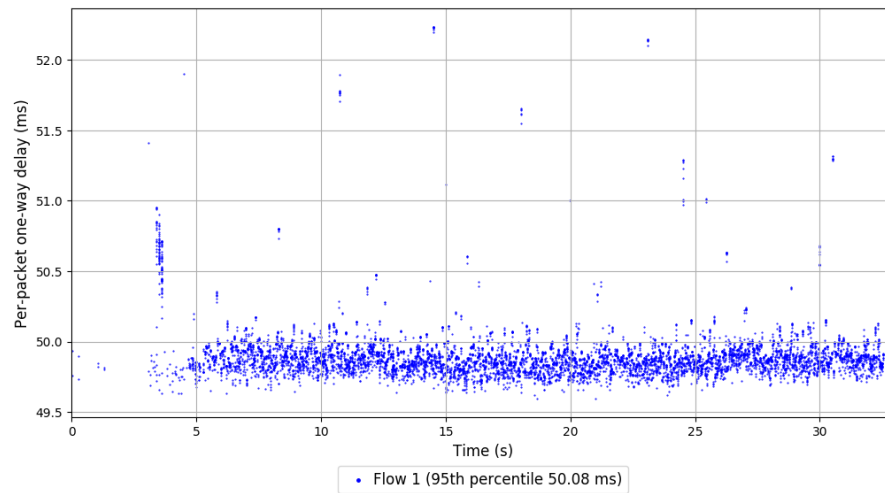
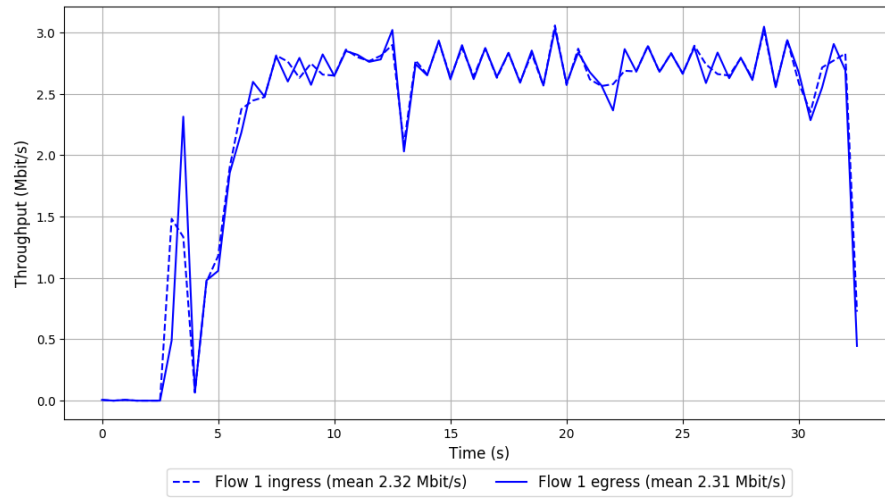
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 50.084 ms

Loss rate: 0.43%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-27 14:32:46

End at: 2018-02-27 14:33:16

Below is generated by plot.py at 2018-02-27 20:16:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 51.907 ms

Loss rate: 0.40%

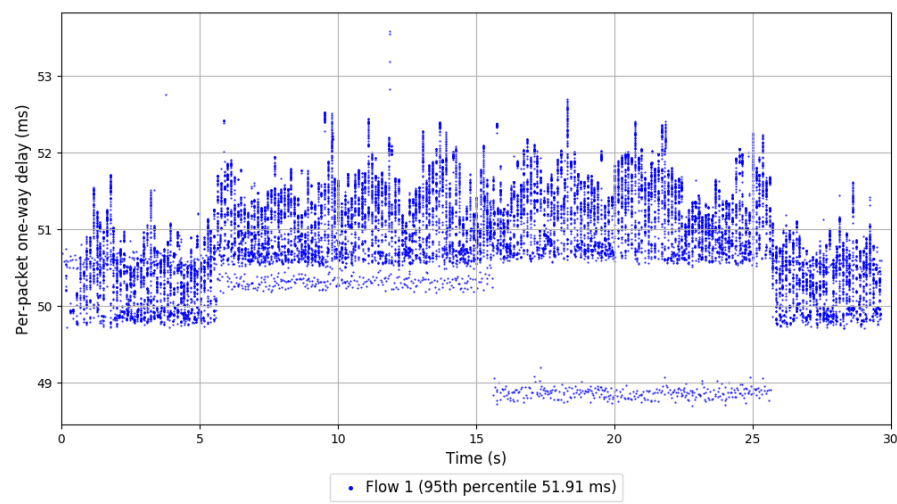
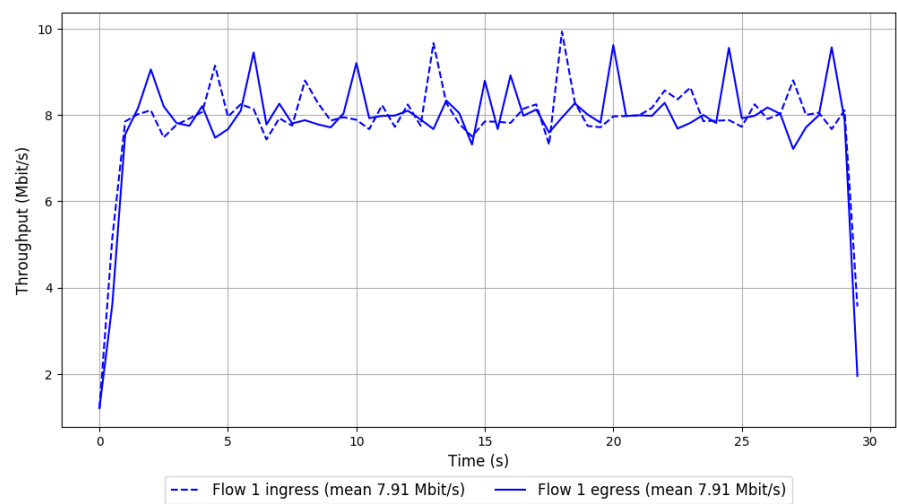
-- Flow 1:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 51.907 ms

Loss rate: 0.40%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-27 14:47:26

End at: 2018-02-27 14:47:56

Below is generated by plot.py at 2018-02-27 20:16:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 51.936 ms

Loss rate: 0.40%

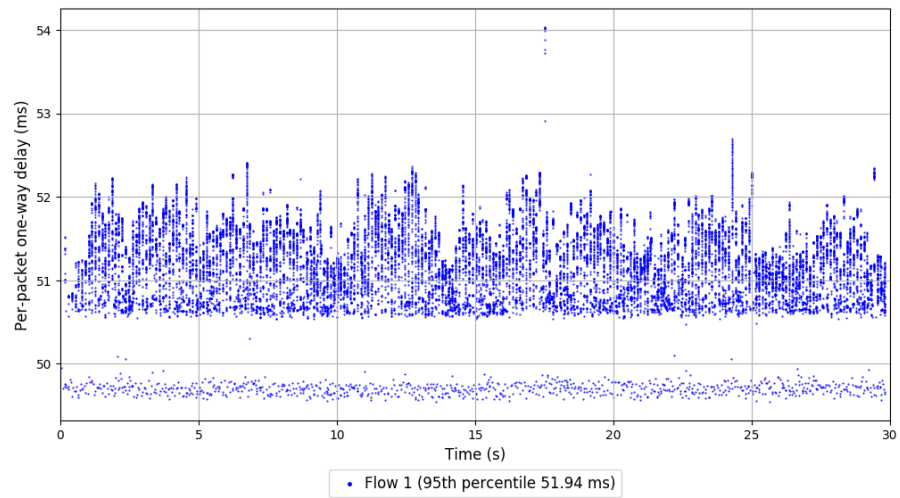
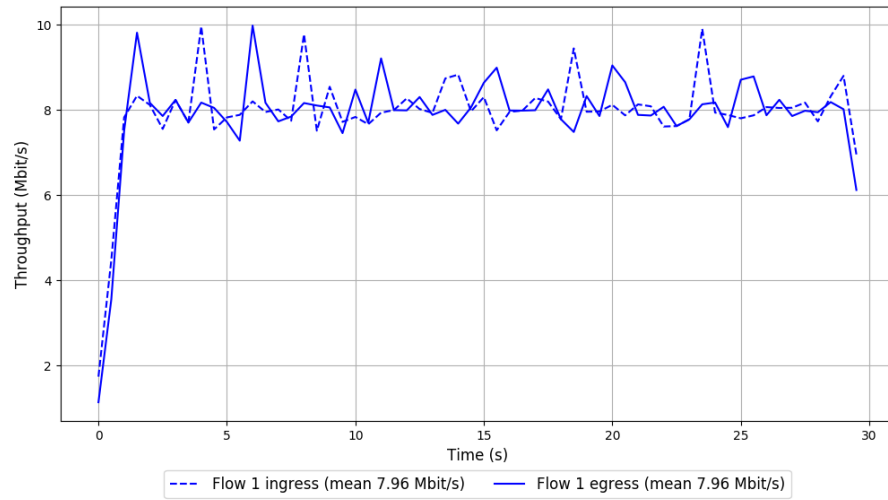
-- Flow 1:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 51.936 ms

Loss rate: 0.40%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-27 15:02:02

End at: 2018-02-27 15:02:32

Below is generated by plot.py at 2018-02-27 20:16:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 51.957 ms

Loss rate: 0.47%

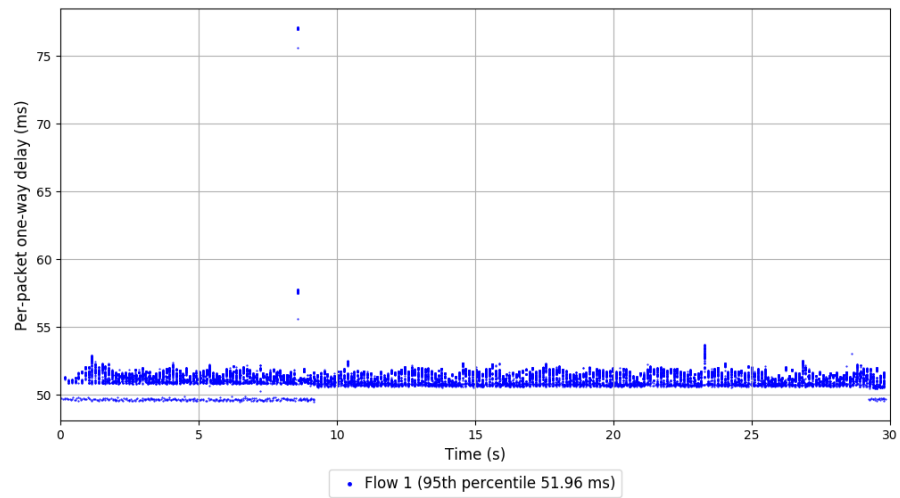
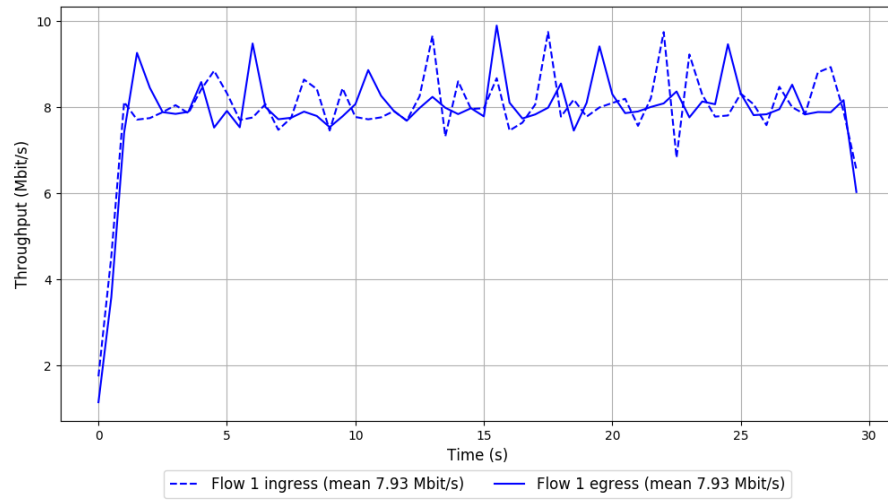
-- Flow 1:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 51.957 ms

Loss rate: 0.47%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-27 15:16:47

End at: 2018-02-27 15:17:17

Below is generated by plot.py at 2018-02-27 20:16:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.79 Mbit/s

95th percentile per-packet one-way delay: 51.837 ms

Loss rate: 0.39%

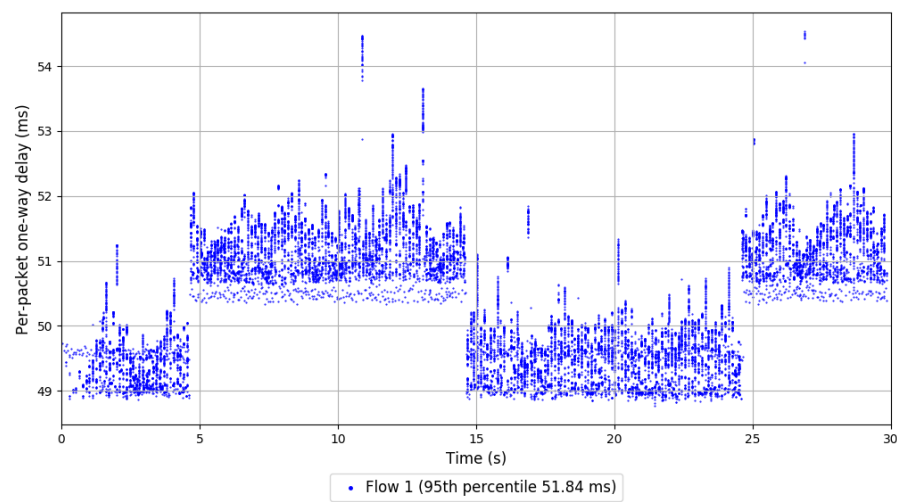
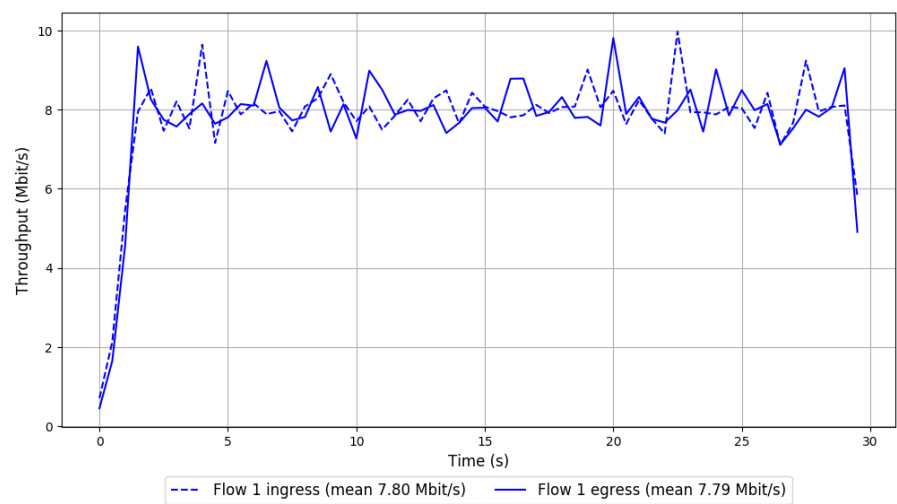
-- Flow 1:

Average throughput: 7.79 Mbit/s

95th percentile per-packet one-way delay: 51.837 ms

Loss rate: 0.39%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-27 15:31:31

End at: 2018-02-27 15:32:01

Below is generated by plot.py at 2018-02-27 20:16:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 51.606 ms

Loss rate: 0.28%

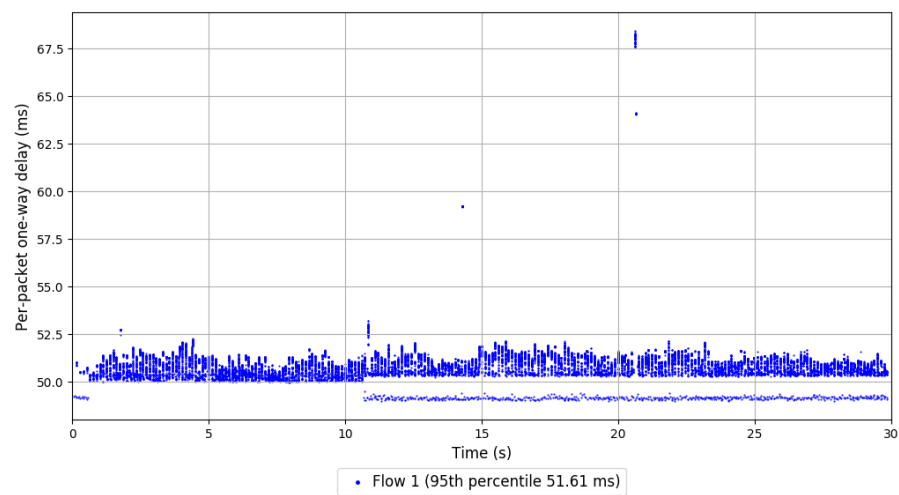
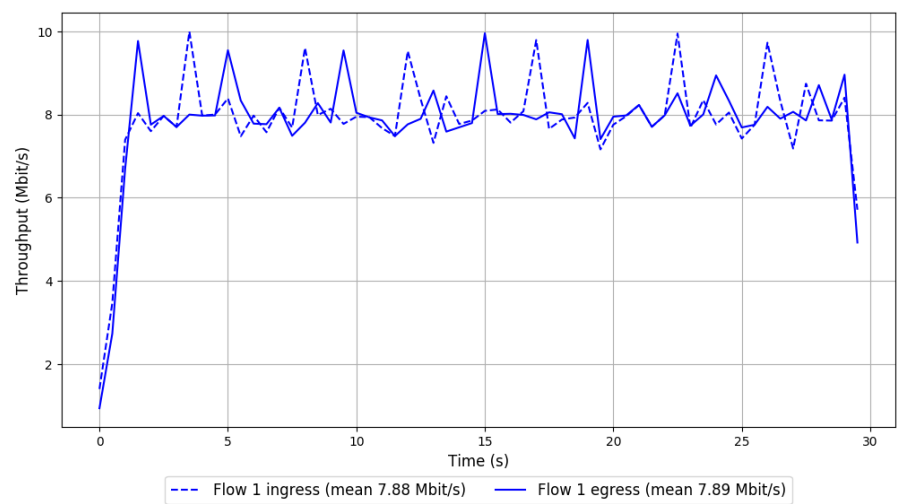
-- Flow 1:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 51.606 ms

Loss rate: 0.28%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-27 15:46:09

End at: 2018-02-27 15:46:39

Below is generated by plot.py at 2018-02-27 20:16:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 51.529 ms

Loss rate: 0.43%

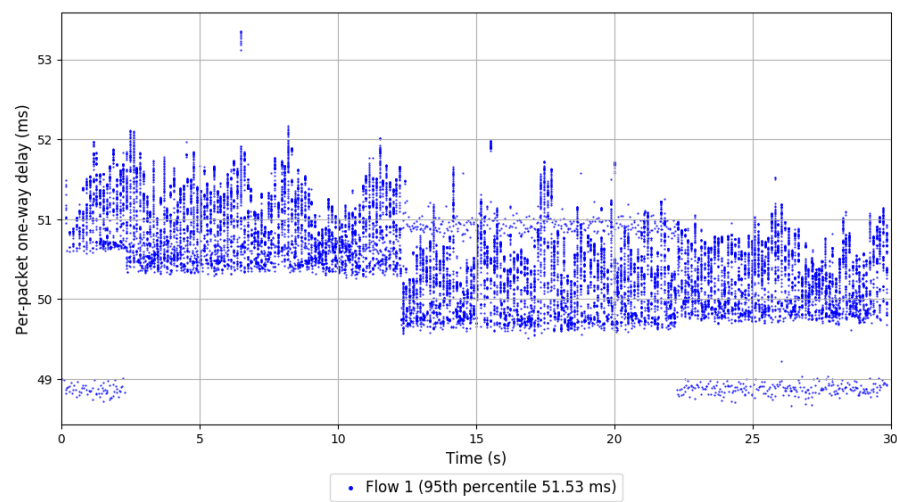
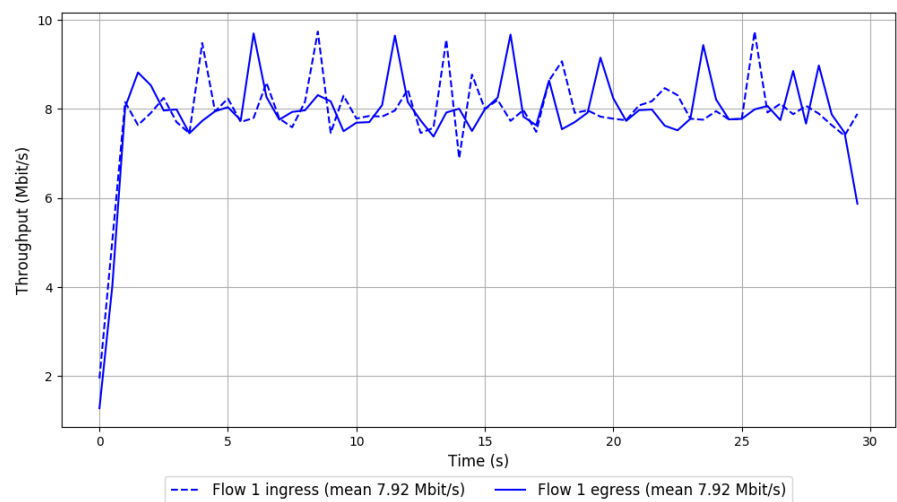
-- Flow 1:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 51.529 ms

Loss rate: 0.43%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-27 16:00:51

End at: 2018-02-27 16:01:21

Below is generated by plot.py at 2018-02-27 20:16:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.97 Mbit/s

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

Loss rate: 0.32%

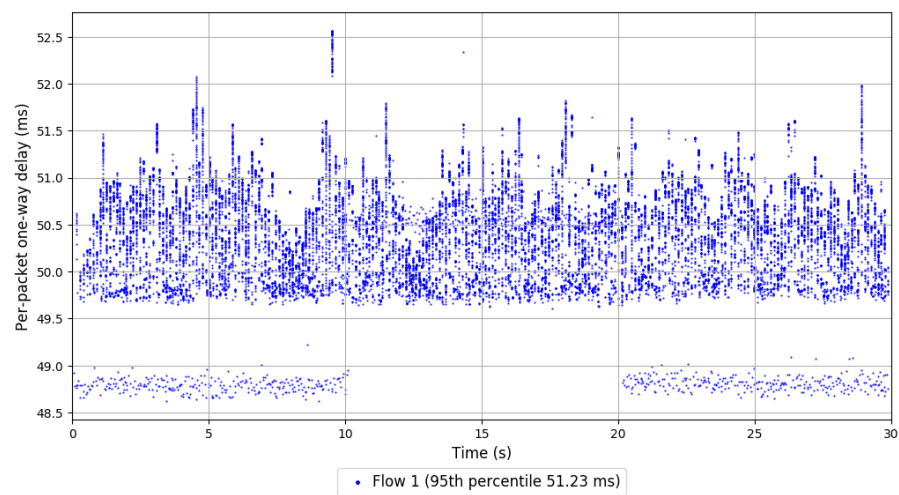
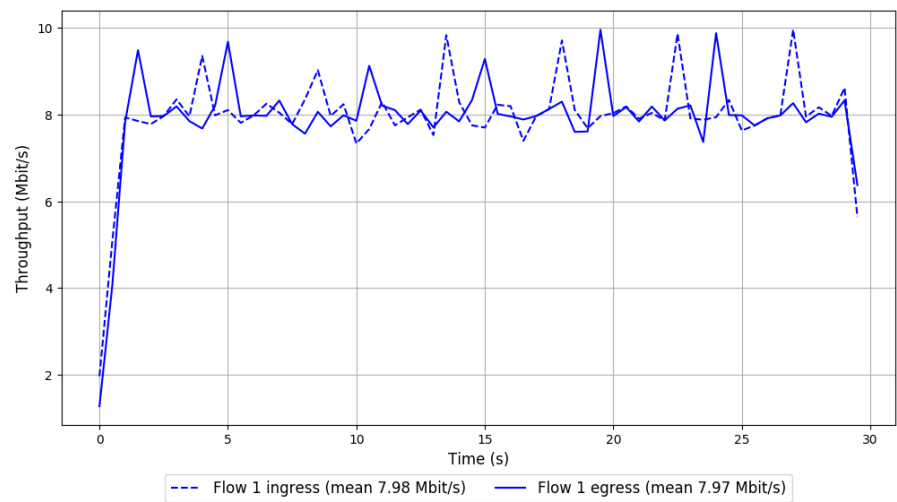
-- Flow 1:

Average throughput: 7.97 Mbit/s

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

Loss rate: 0.32%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-27 16:15:28

End at: 2018-02-27 16:15:58

Below is generated by plot.py at 2018-02-27 20:16:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 51.330 ms

Loss rate: 0.41%

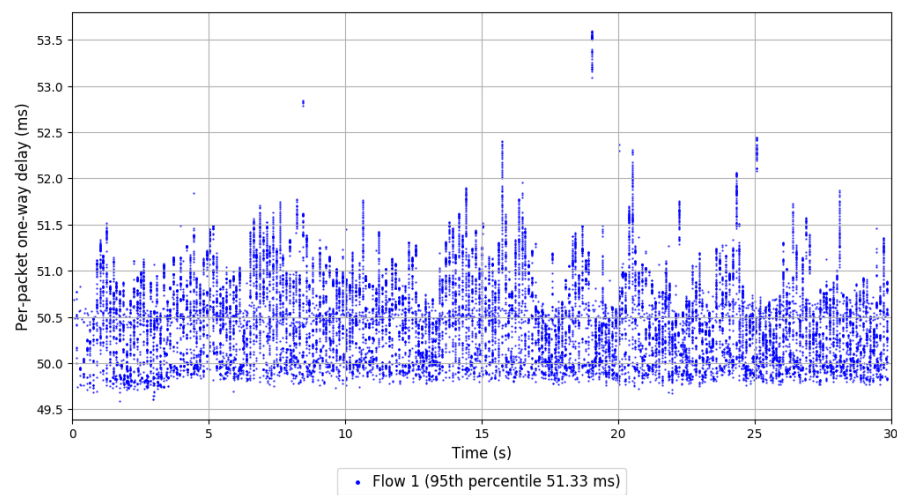
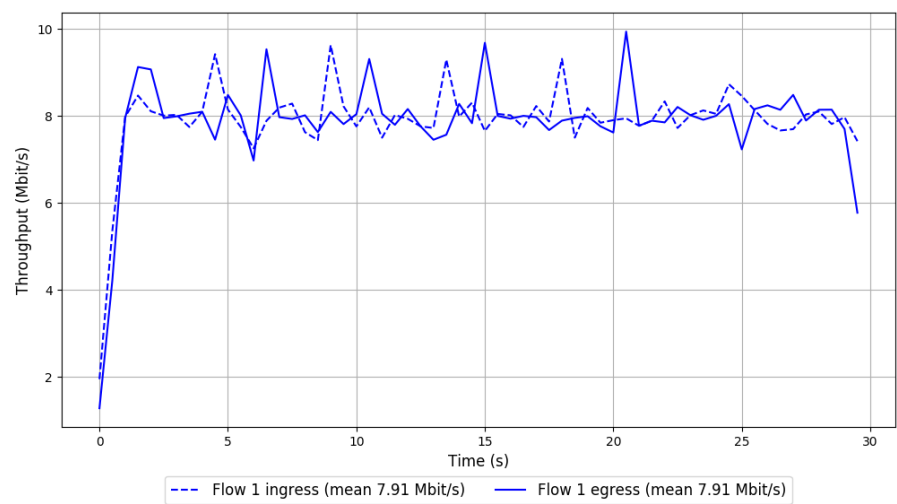
-- Flow 1:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 51.330 ms

Loss rate: 0.41%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-27 16:30:16

End at: 2018-02-27 16:30:46

Below is generated by plot.py at 2018-02-27 20:16:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 51.889 ms

Loss rate: 0.21%

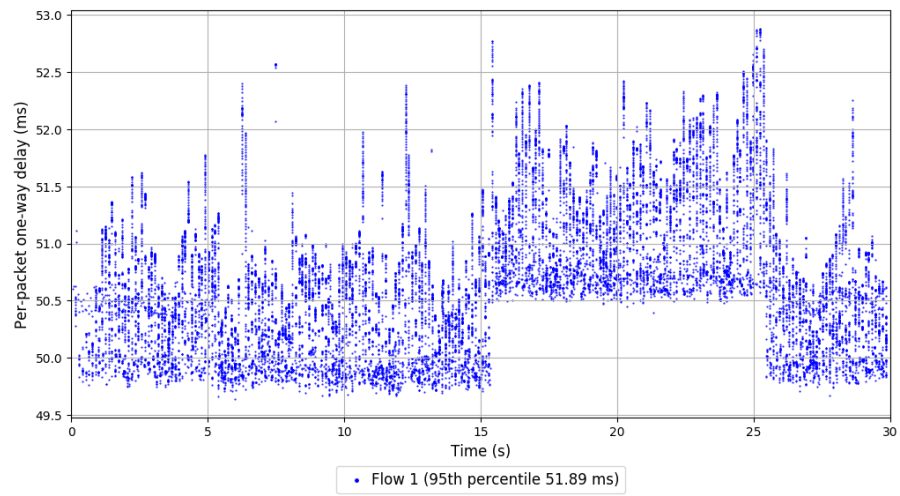
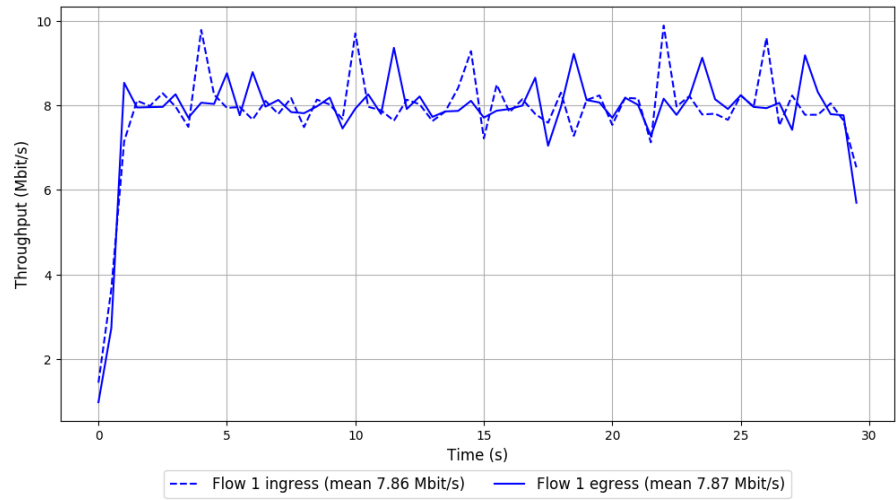
-- Flow 1:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 51.889 ms

Loss rate: 0.21%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-27 16:44:57

End at: 2018-02-27 16:45:27

Below is generated by plot.py at 2018-02-27 20:16:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 51.846 ms

Loss rate: 0.48%

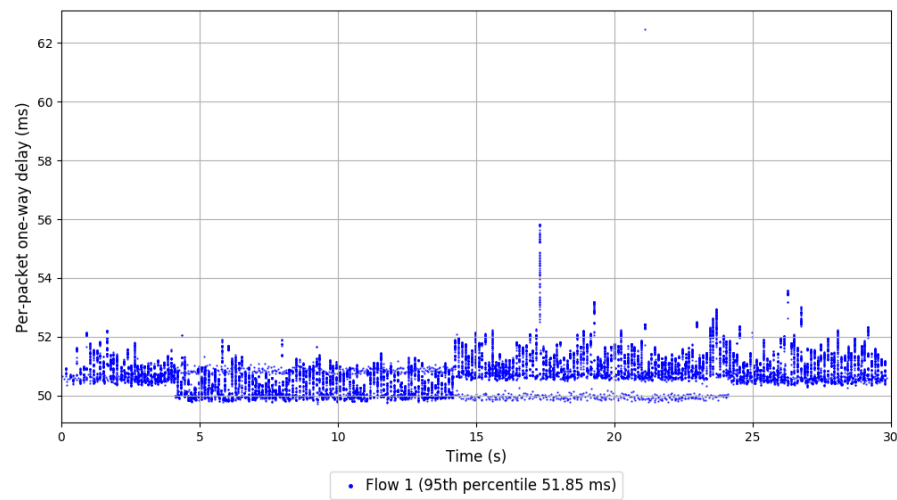
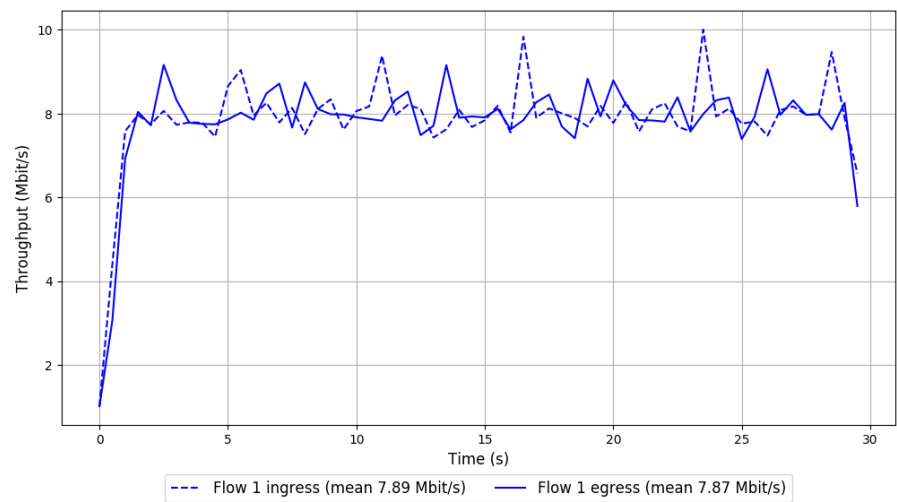
-- Flow 1:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 51.846 ms

Loss rate: 0.48%

Run 10: Report of Sprout — Data Link

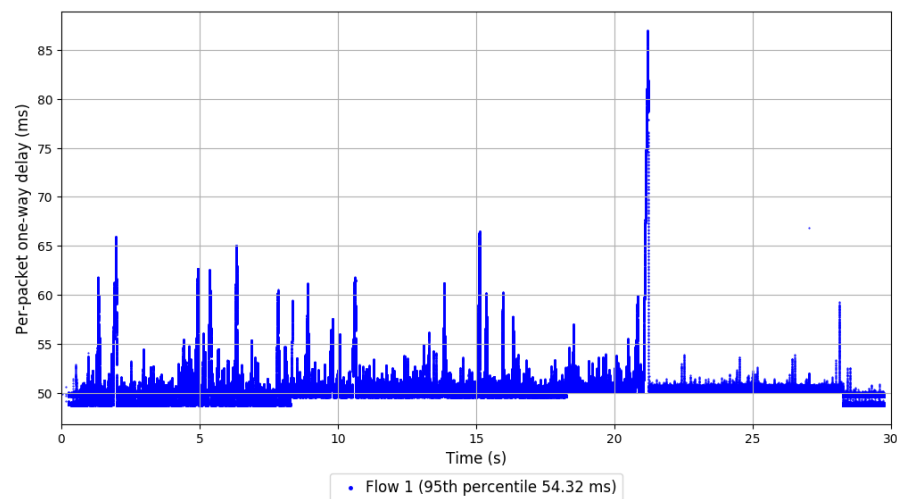
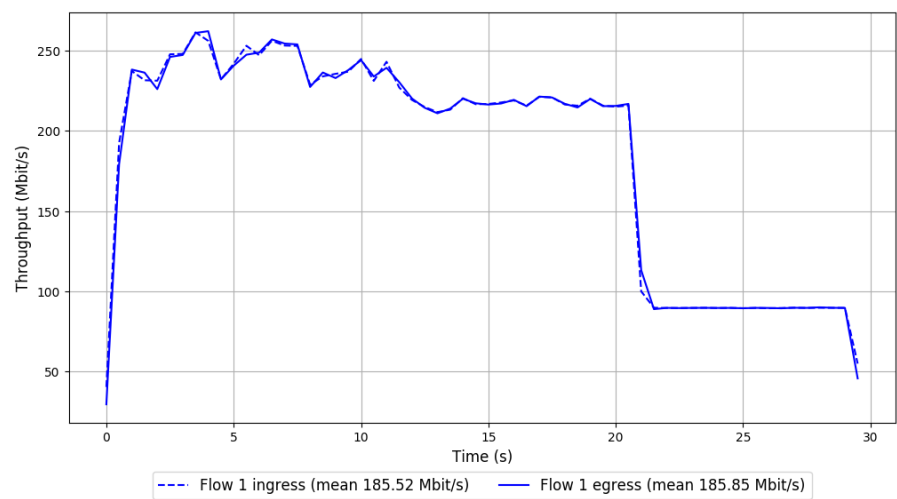


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-27 14:31:03
End at: 2018-02-27 14:31:33

# Below is generated by plot.py at 2018-02-27 20:17:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 185.85 Mbit/s
95th percentile per-packet one-way delay: 54.319 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 185.85 Mbit/s
95th percentile per-packet one-way delay: 54.319 ms
Loss rate: 0.16%
```


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

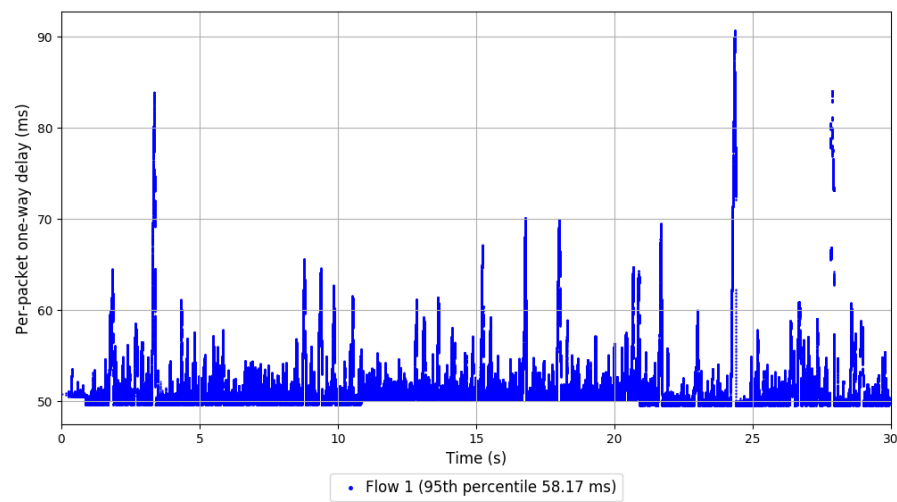
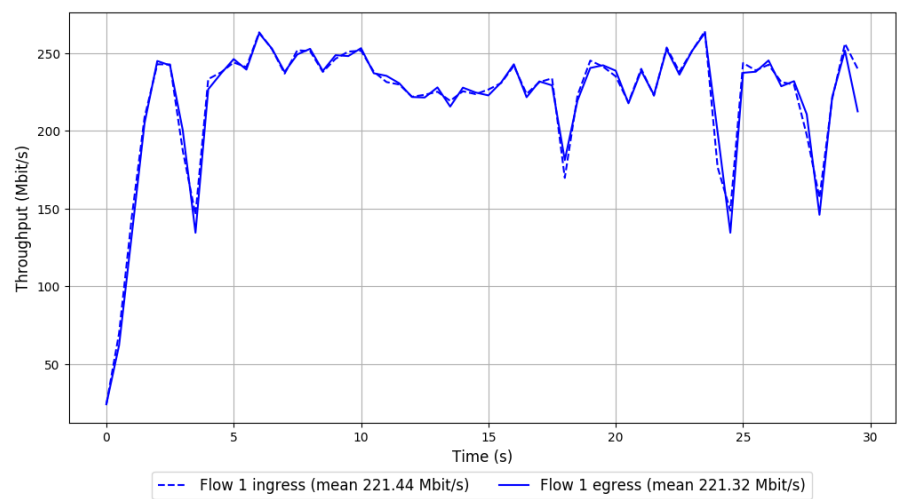


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-27 14:45:41
End at: 2018-02-27 14:46:11

# Below is generated by plot.py at 2018-02-27 20:18:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 221.32 Mbit/s
95th percentile per-packet one-way delay: 58.173 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 221.32 Mbit/s
95th percentile per-packet one-way delay: 58.173 ms
Loss rate: 0.39%
```

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

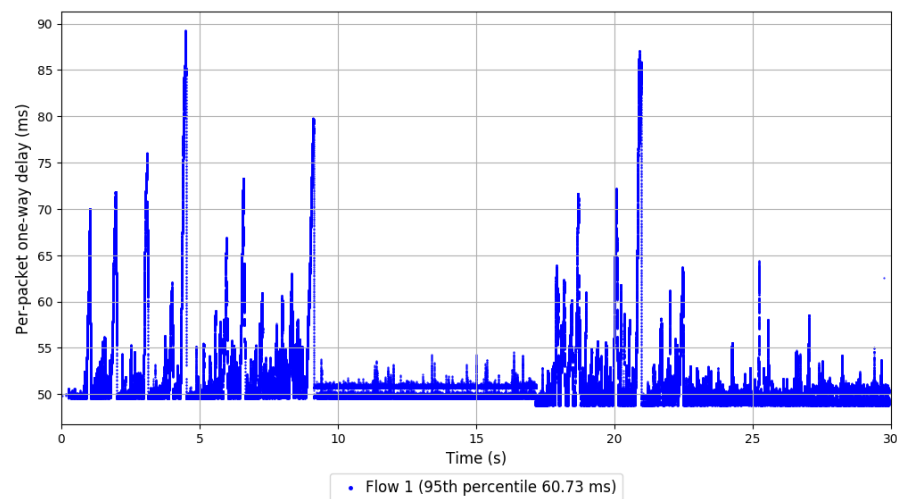
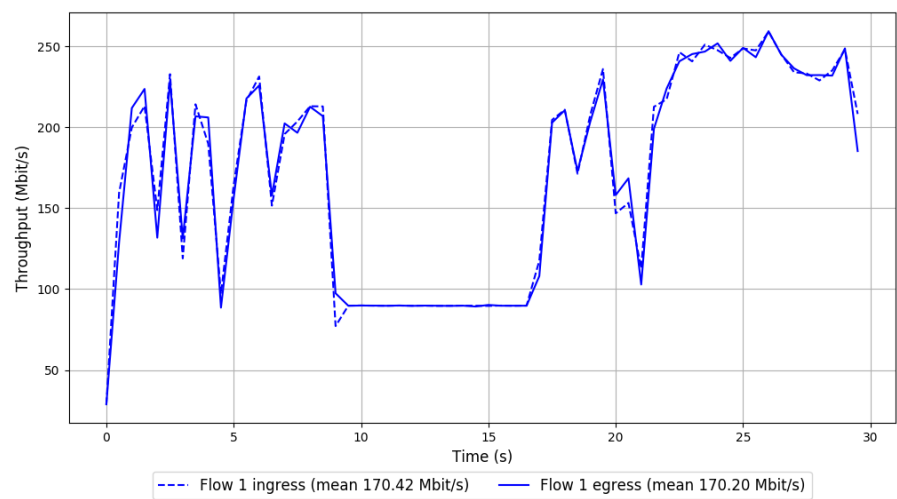


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-02-27 15:00:24
End at: 2018-02-27 15:00:54

# Below is generated by plot.py at 2018-02-27 20:18:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 170.20 Mbit/s
95th percentile per-packet one-way delay: 60.731 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 170.20 Mbit/s
95th percentile per-packet one-way delay: 60.731 ms
Loss rate: 0.47%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-02-27 15:15:03

End at: 2018-02-27 15:15:33

Below is generated by plot.py at 2018-02-27 20:18:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.05 Mbit/s

95th percentile per-packet one-way delay: 60.950 ms

Loss rate: 1.26%

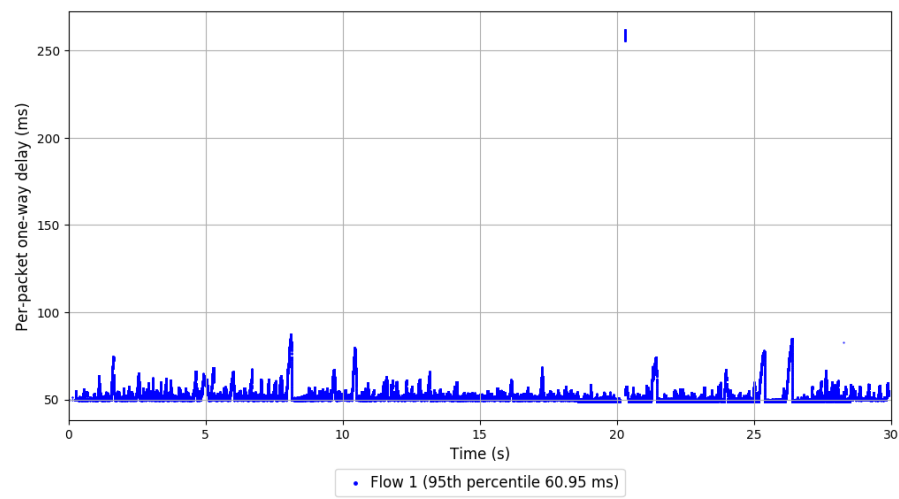
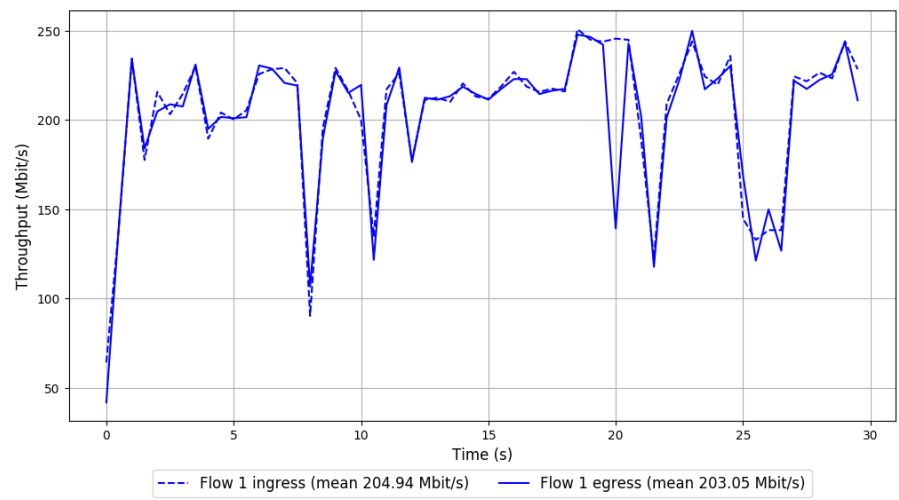
-- Flow 1:

Average throughput: 203.05 Mbit/s

95th percentile per-packet one-way delay: 60.950 ms

Loss rate: 1.26%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-27 15:29:50

End at: 2018-02-27 15:30:20

Below is generated by plot.py at 2018-02-27 20:18:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.69 Mbit/s

95th percentile per-packet one-way delay: 60.062 ms

Loss rate: 0.37%

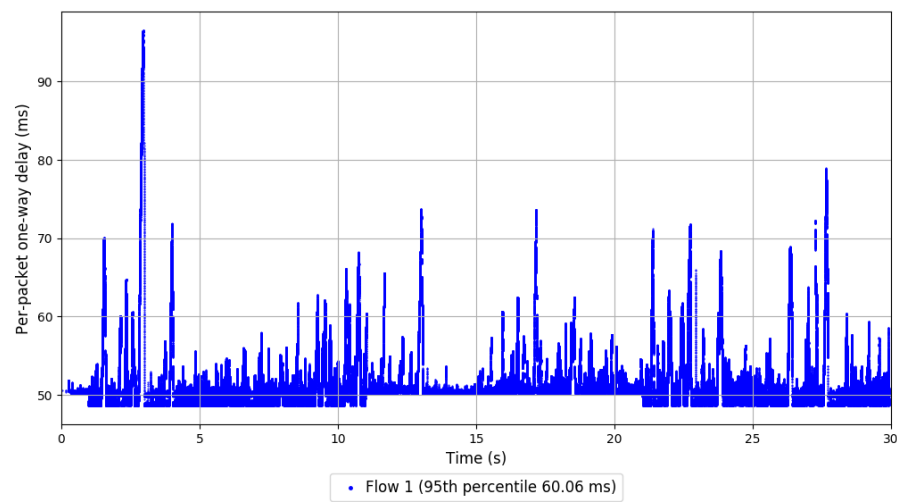
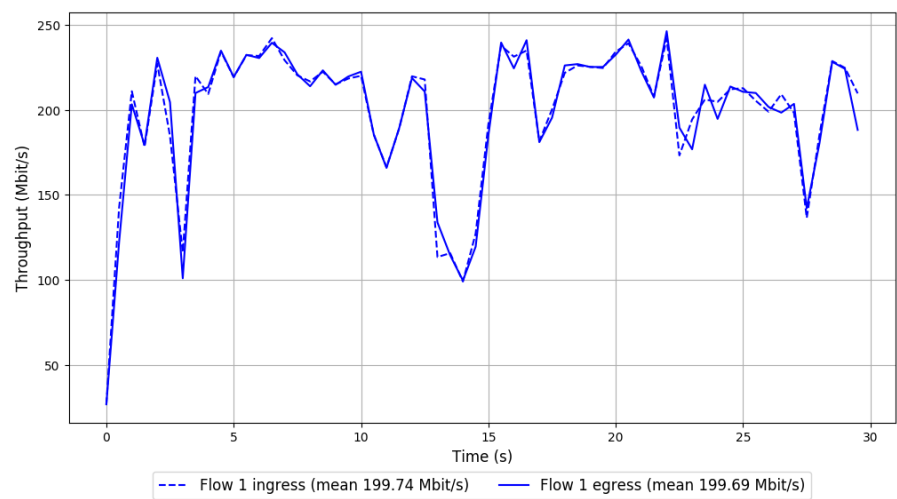
-- Flow 1:

Average throughput: 199.69 Mbit/s

95th percentile per-packet one-way delay: 60.062 ms

Loss rate: 0.37%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-27 15:44:25

End at: 2018-02-27 15:44:55

Below is generated by plot.py at 2018-02-27 20:19:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 230.79 Mbit/s

95th percentile per-packet one-way delay: 54.829 ms

Loss rate: 0.32%

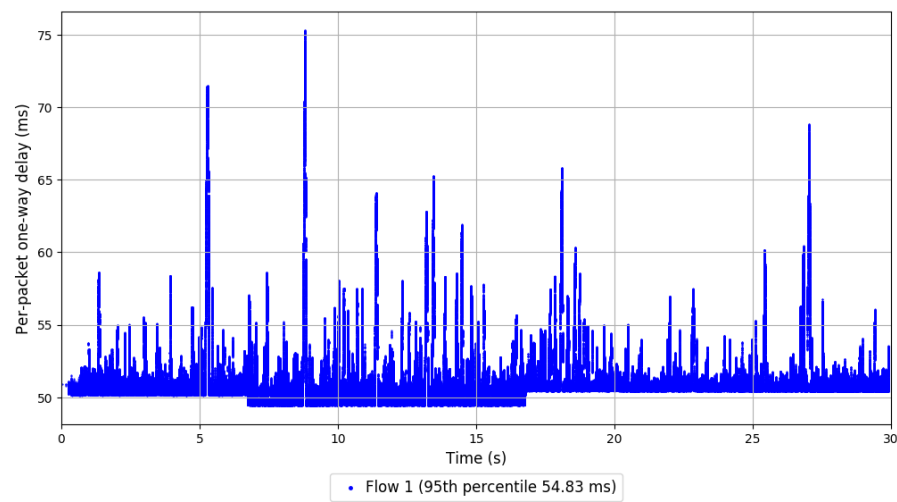
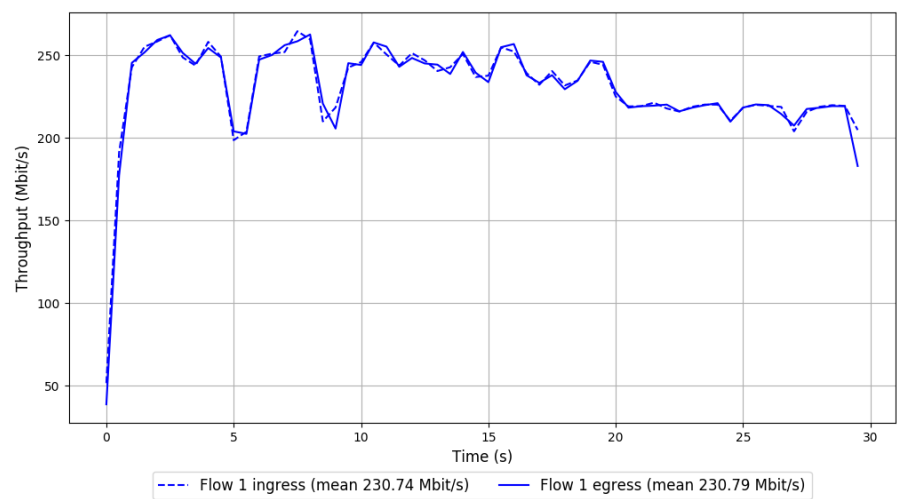
-- Flow 1:

Average throughput: 230.79 Mbit/s

95th percentile per-packet one-way delay: 54.829 ms

Loss rate: 0.32%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-27 15:59:06

End at: 2018-02-27 15:59:36

Below is generated by plot.py at 2018-02-27 20:22:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.80 Mbit/s

95th percentile per-packet one-way delay: 56.905 ms

Loss rate: 0.05%

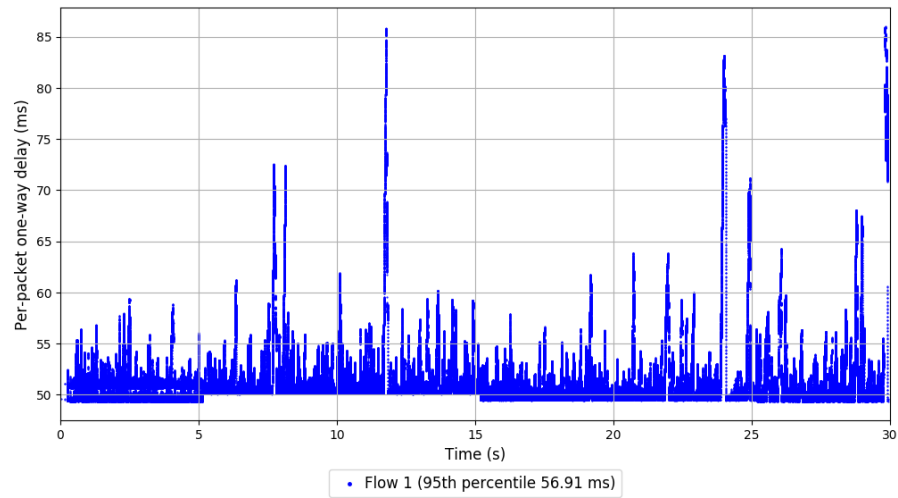
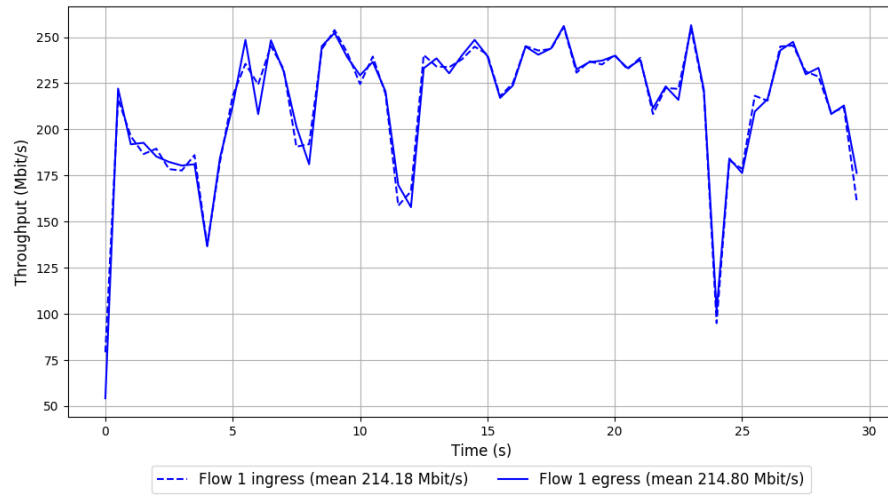
-- Flow 1:

Average throughput: 214.80 Mbit/s

95th percentile per-packet one-way delay: 56.905 ms

Loss rate: 0.05%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-27 16:13:50

End at: 2018-02-27 16:14:20

Below is generated by plot.py at 2018-02-27 20:27:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.77 Mbit/s

95th percentile per-packet one-way delay: 59.962 ms

Loss rate: 0.41%

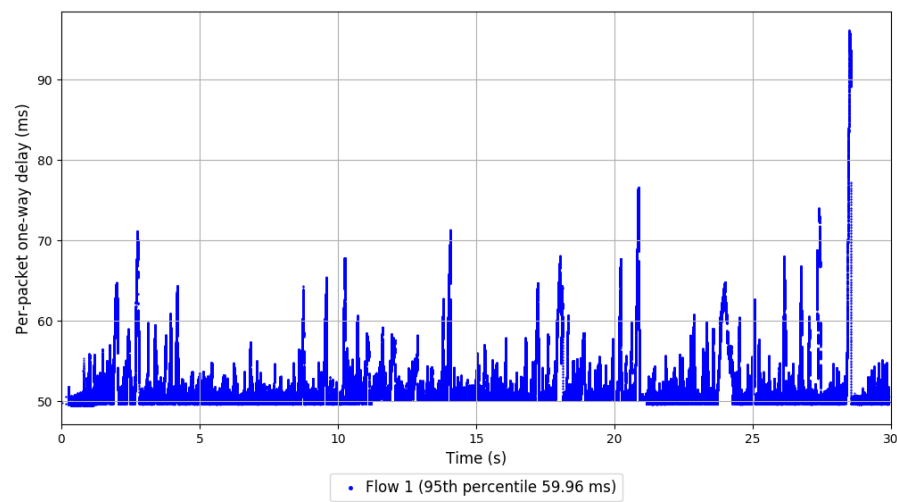
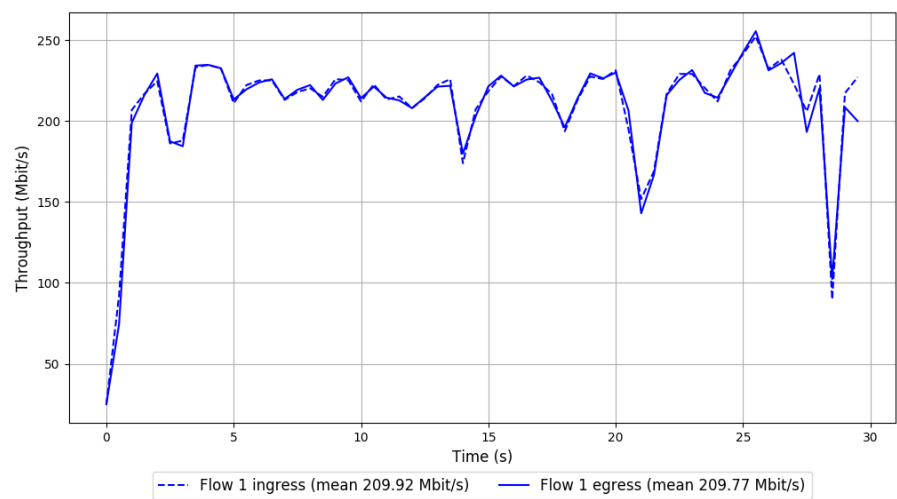
-- Flow 1:

Average throughput: 209.77 Mbit/s

95th percentile per-packet one-way delay: 59.962 ms

Loss rate: 0.41%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-27 16:28:31

End at: 2018-02-27 16:29:01

Below is generated by plot.py at 2018-02-27 20:27:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.79 Mbit/s

95th percentile per-packet one-way delay: 61.499 ms

Loss rate: 0.41%

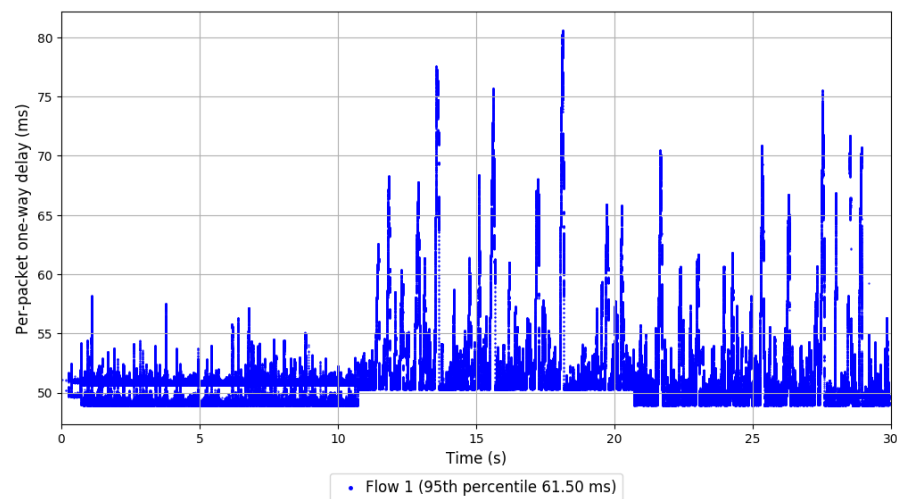
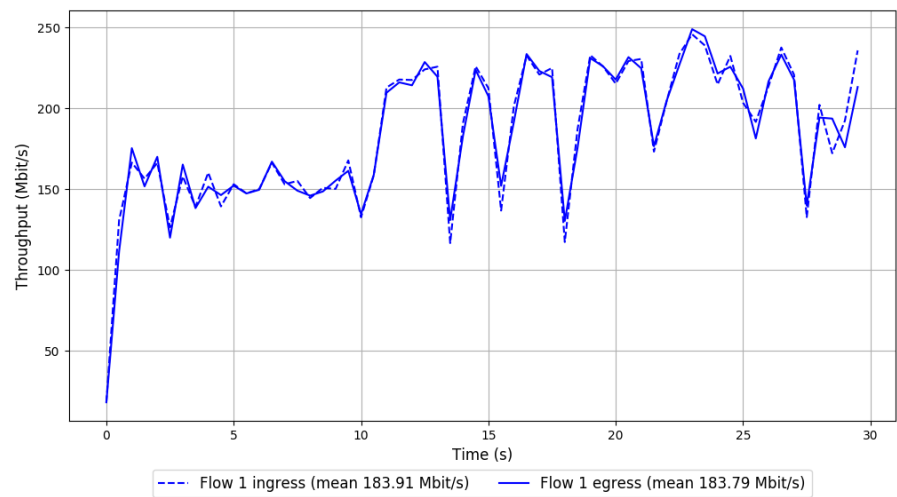
-- Flow 1:

Average throughput: 183.79 Mbit/s

95th percentile per-packet one-way delay: 61.499 ms

Loss rate: 0.41%

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

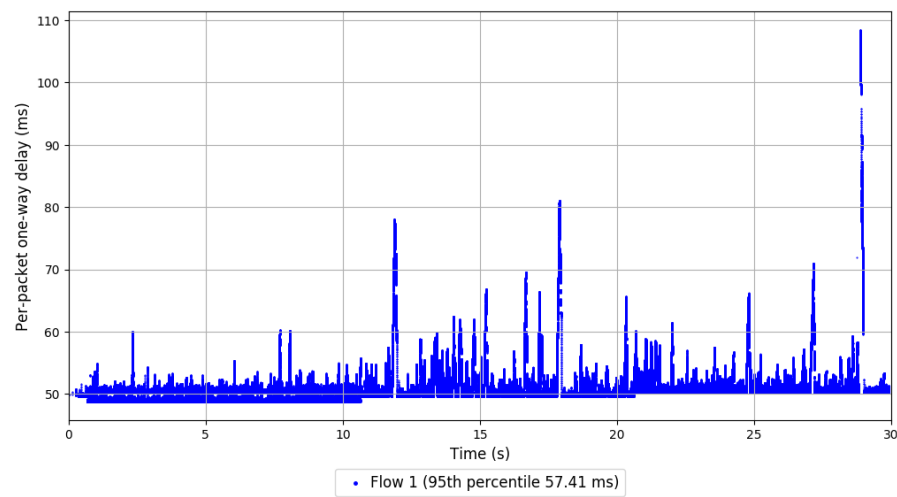
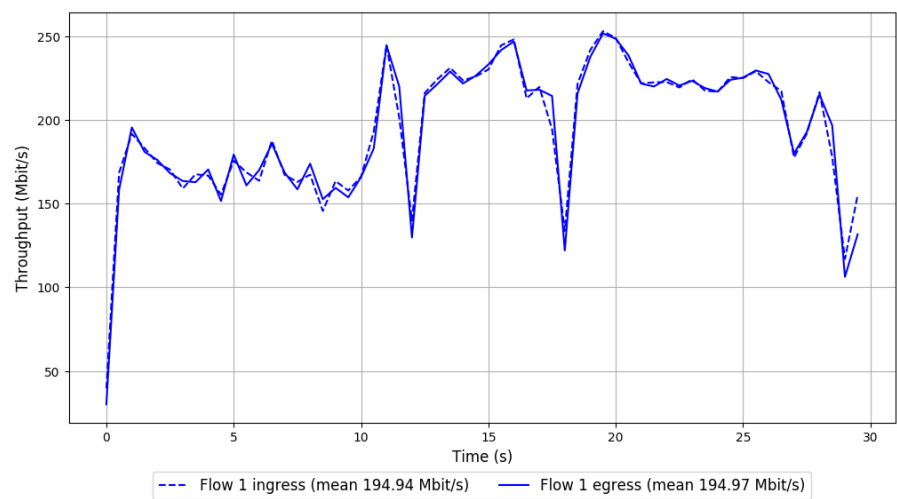


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-27 16:43:11
End at: 2018-02-27 16:43:41

# Below is generated by plot.py at 2018-02-27 20:27:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 194.97 Mbit/s
95th percentile per-packet one-way delay: 57.411 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 194.97 Mbit/s
95th percentile per-packet one-way delay: 57.411 ms
Loss rate: 0.32%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-27 14:31:57

End at: 2018-02-27 14:32:27

Below is generated by plot.py at 2018-02-27 20:27:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.83 Mbit/s

95th percentile per-packet one-way delay: 62.854 ms

Loss rate: 0.35%

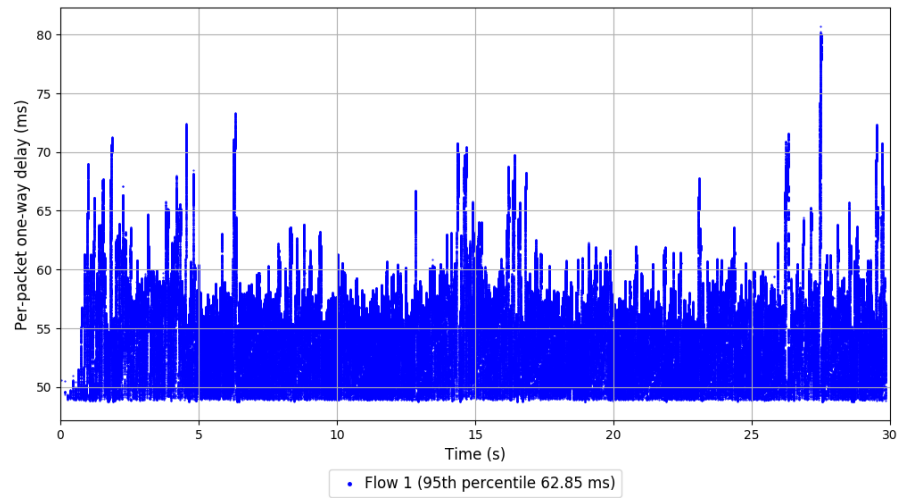
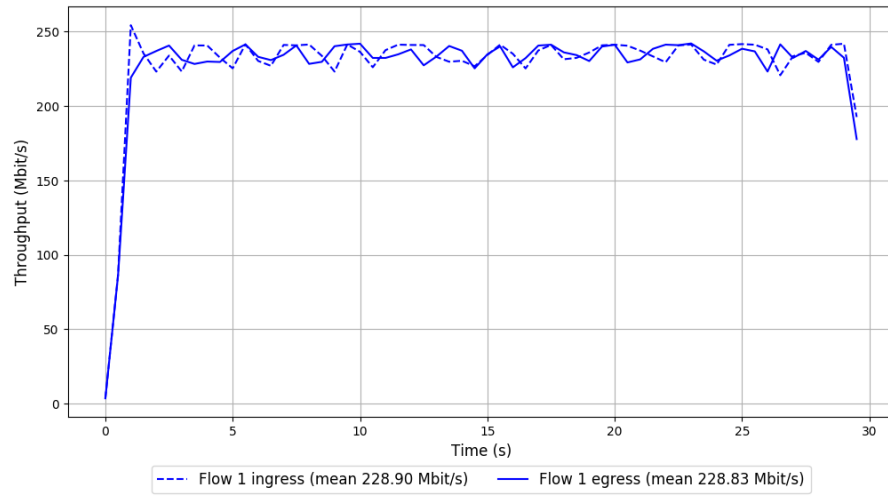
-- Flow 1:

Average throughput: 228.83 Mbit/s

95th percentile per-packet one-way delay: 62.854 ms

Loss rate: 0.35%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-27 14:46:38

End at: 2018-02-27 14:47:08

Below is generated by plot.py at 2018-02-27 20:27:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.16 Mbit/s

95th percentile per-packet one-way delay: 63.861 ms

Loss rate: 0.38%

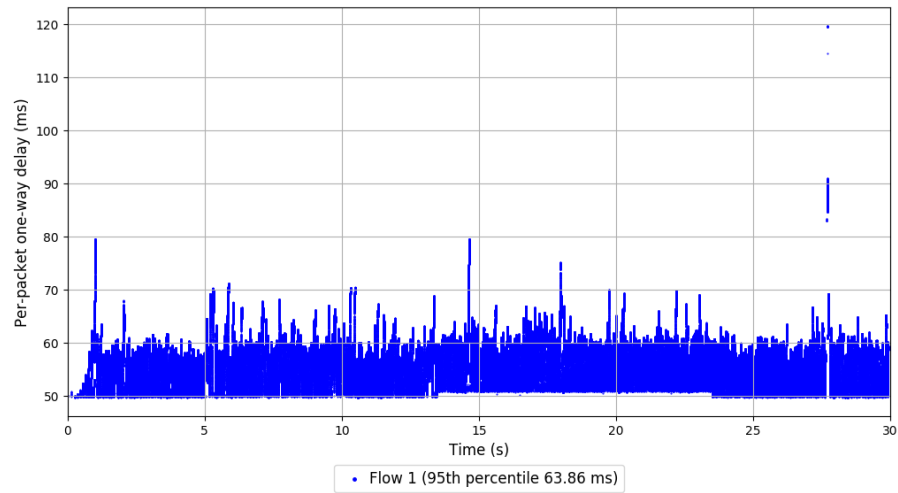
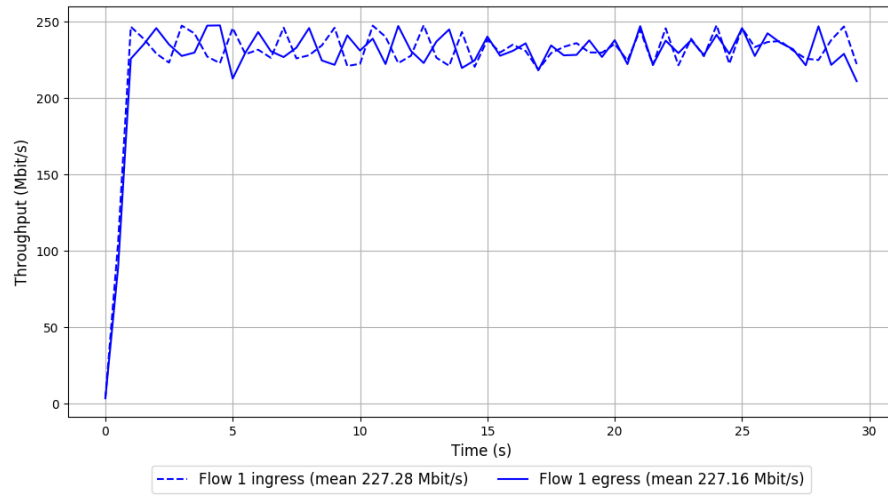
-- Flow 1:

Average throughput: 227.16 Mbit/s

95th percentile per-packet one-way delay: 63.861 ms

Loss rate: 0.38%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-27 15:01:17

End at: 2018-02-27 15:01:47

Below is generated by plot.py at 2018-02-27 20:27:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 164.27 Mbit/s

95th percentile per-packet one-way delay: 60.432 ms

Loss rate: 0.21%

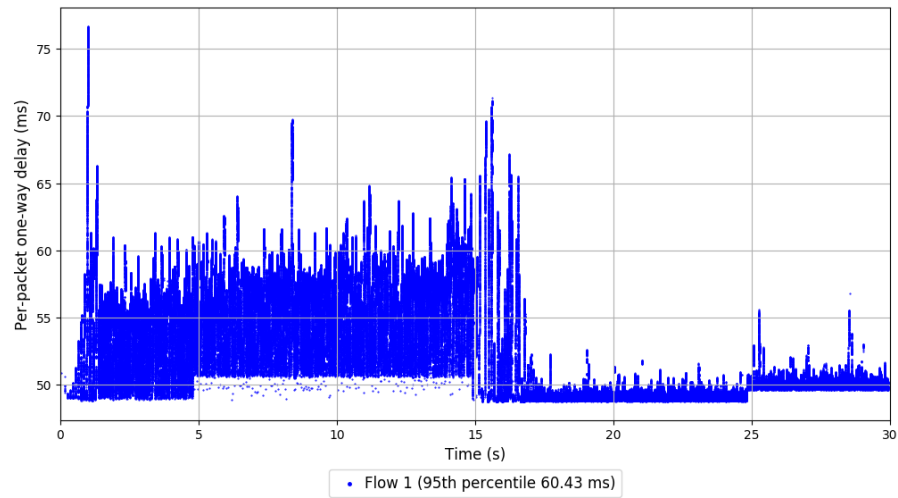
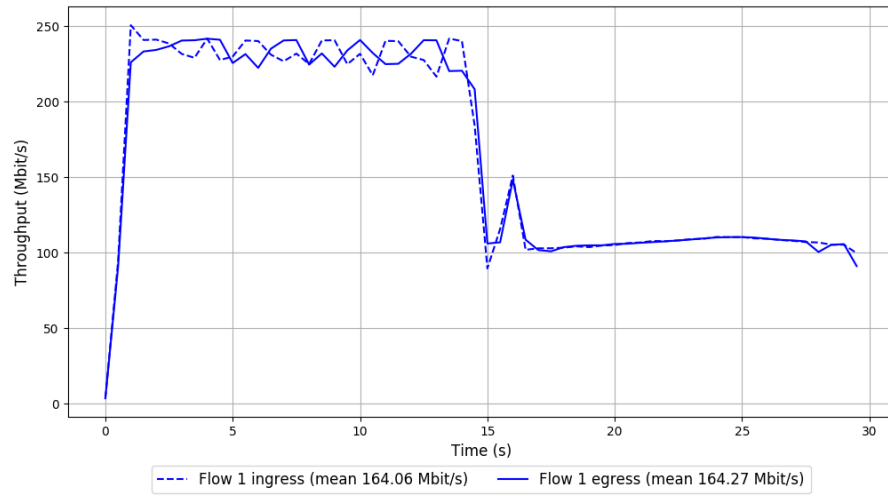
-- Flow 1:

Average throughput: 164.27 Mbit/s

95th percentile per-packet one-way delay: 60.432 ms

Loss rate: 0.21%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-27 15:15:58

End at: 2018-02-27 15:16:28

Below is generated by plot.py at 2018-02-27 20:27:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.80 Mbit/s

95th percentile per-packet one-way delay: 64.452 ms

Loss rate: 0.36%

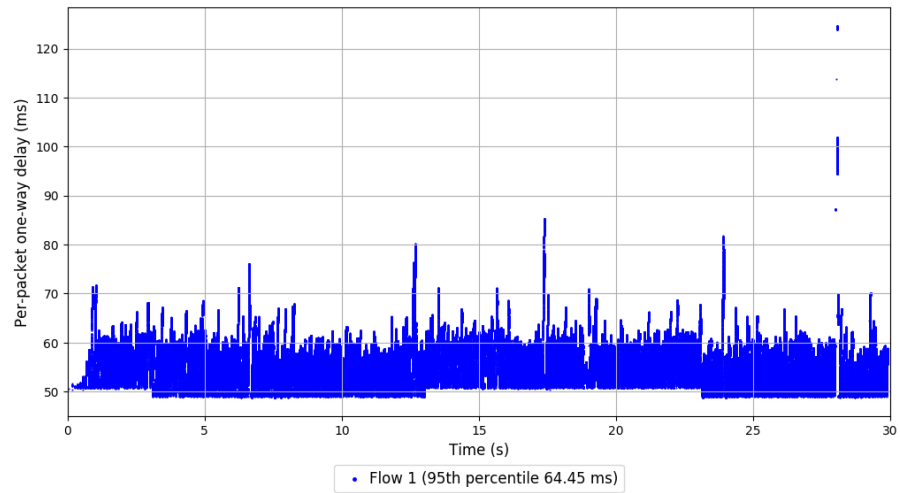
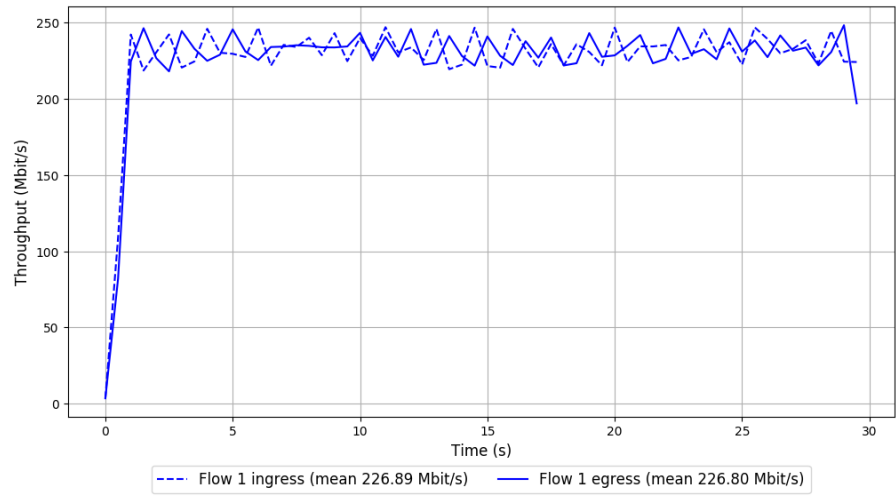
-- Flow 1:

Average throughput: 226.80 Mbit/s

95th percentile per-packet one-way delay: 64.452 ms

Loss rate: 0.36%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-27 15:30:46

End at: 2018-02-27 15:31:16

Below is generated by plot.py at 2018-02-27 20:27:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 149.51 Mbit/s

95th percentile per-packet one-way delay: 52.078 ms

Loss rate: 0.34%

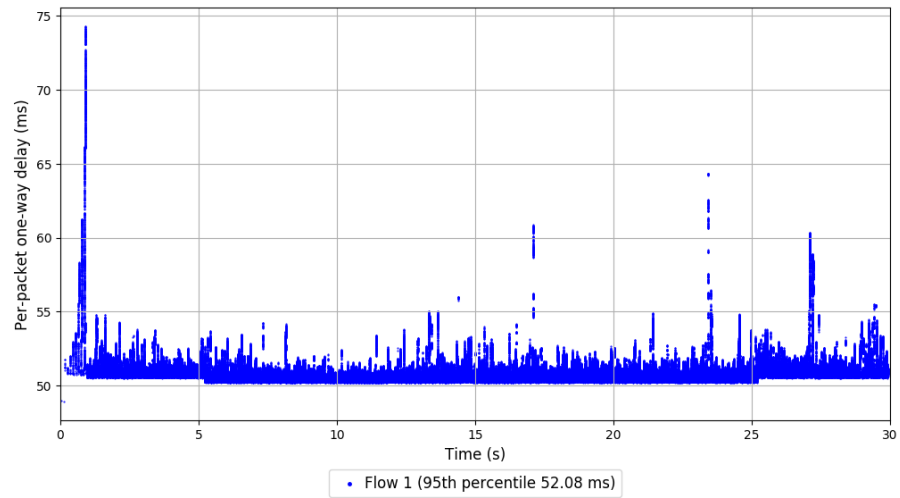
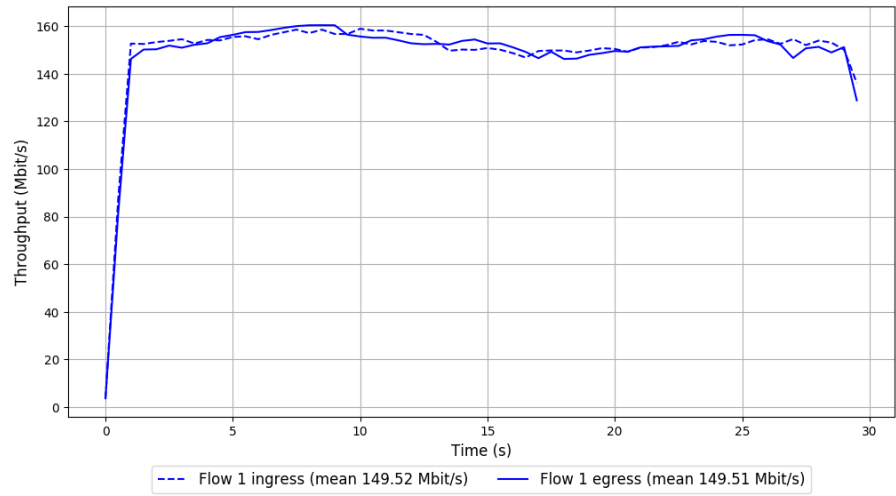
-- Flow 1:

Average throughput: 149.51 Mbit/s

95th percentile per-packet one-way delay: 52.078 ms

Loss rate: 0.34%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-27 15:45:23

End at: 2018-02-27 15:45:53

Below is generated by plot.py at 2018-02-27 20:28:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.29 Mbit/s

95th percentile per-packet one-way delay: 52.168 ms

Loss rate: 0.34%

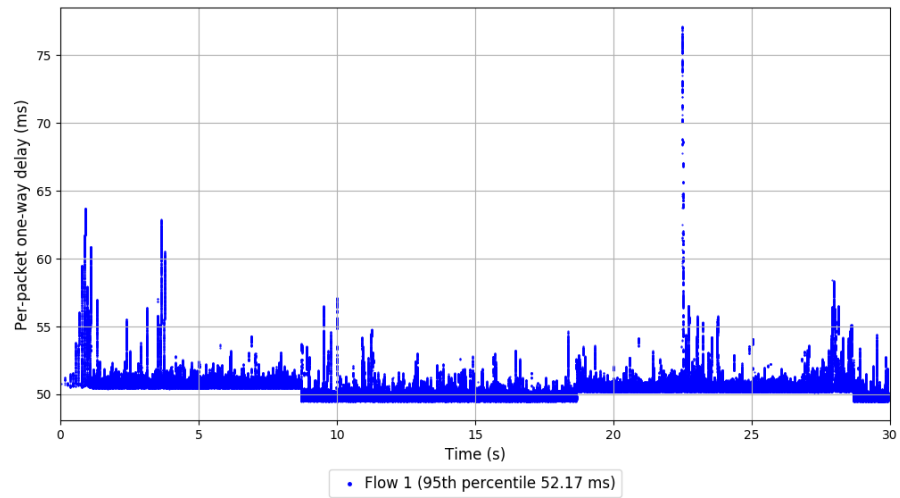
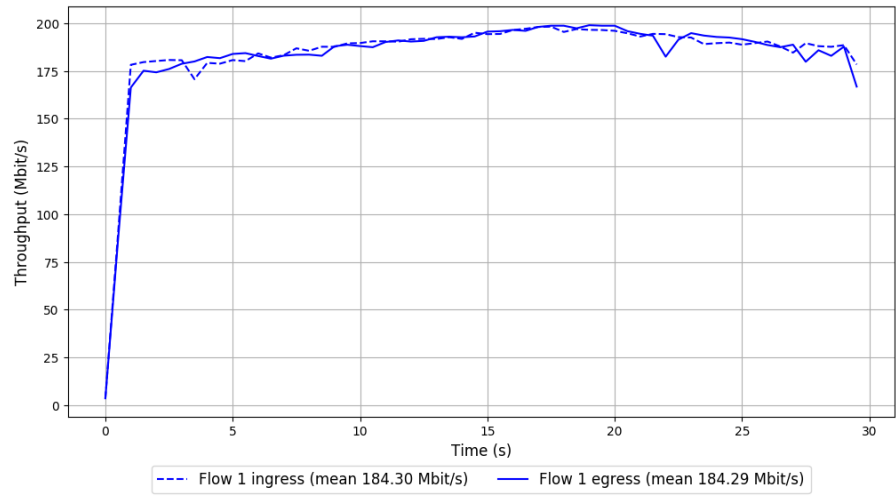
-- Flow 1:

Average throughput: 184.29 Mbit/s

95th percentile per-packet one-way delay: 52.168 ms

Loss rate: 0.34%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-27 16:00:03

End at: 2018-02-27 16:00:33

Below is generated by plot.py at 2018-02-27 20:29:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.70 Mbit/s

95th percentile per-packet one-way delay: 62.059 ms

Loss rate: 0.10%

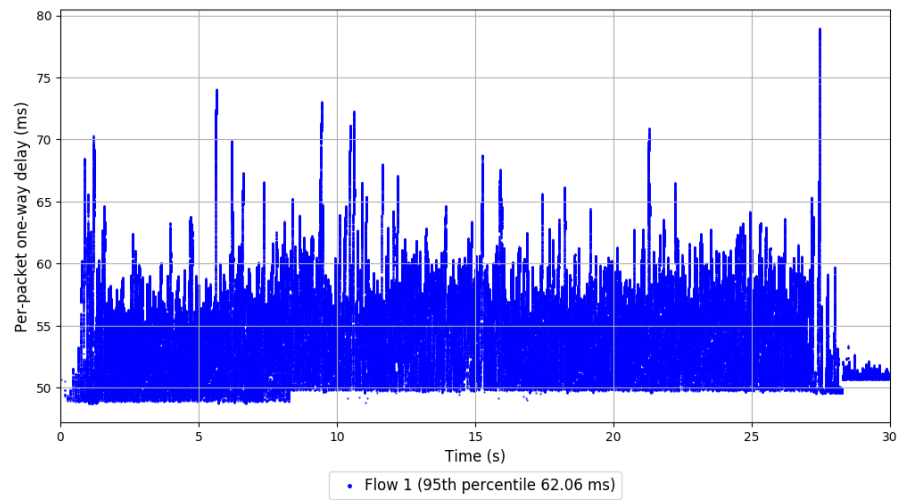
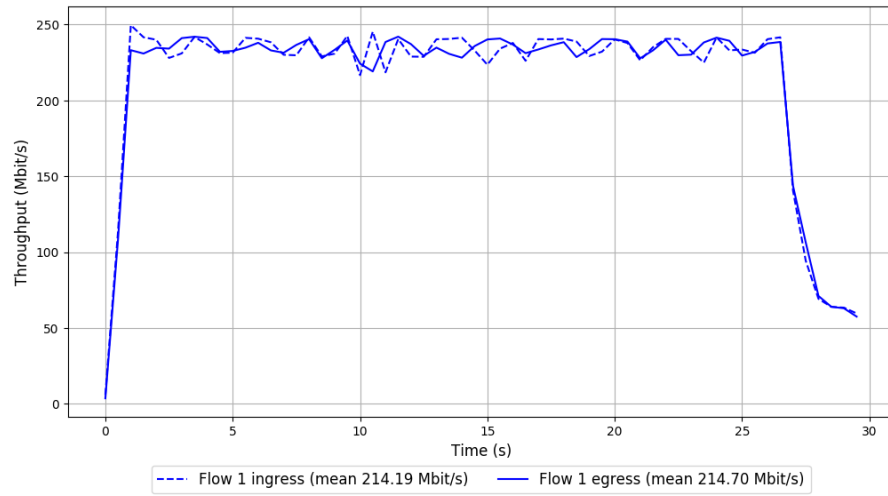
-- Flow 1:

Average throughput: 214.70 Mbit/s

95th percentile per-packet one-way delay: 62.059 ms

Loss rate: 0.10%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-27 16:14:47

End at: 2018-02-27 16:15:17

Below is generated by plot.py at 2018-02-27 20:29:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.76 Mbit/s

95th percentile per-packet one-way delay: 51.609 ms

Loss rate: 0.28%

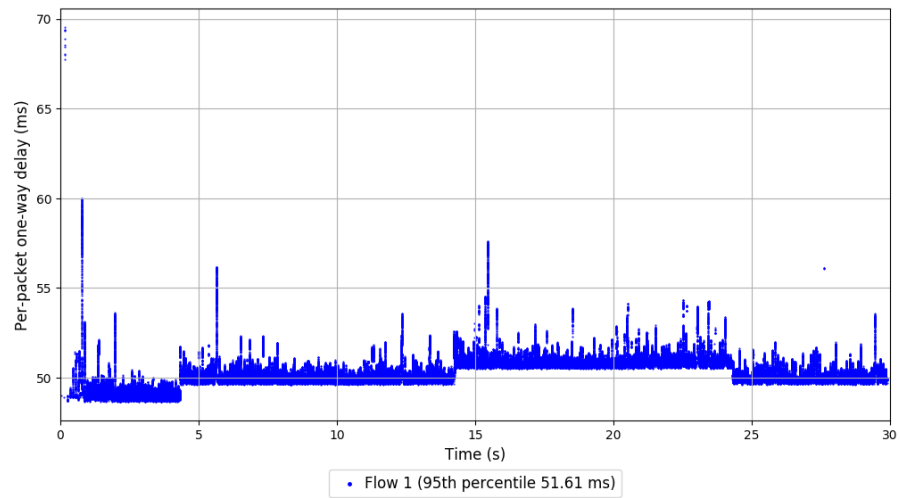
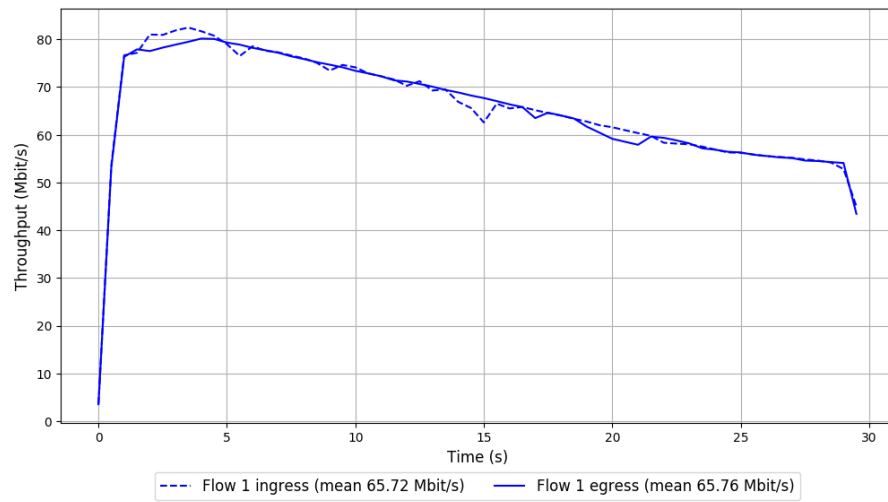
-- Flow 1:

Average throughput: 65.76 Mbit/s

95th percentile per-packet one-way delay: 51.609 ms

Loss rate: 0.28%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-27 16:29:26

End at: 2018-02-27 16:29:56

Below is generated by plot.py at 2018-02-27 20:32:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.17 Mbit/s

95th percentile per-packet one-way delay: 64.583 ms

Loss rate: 0.32%

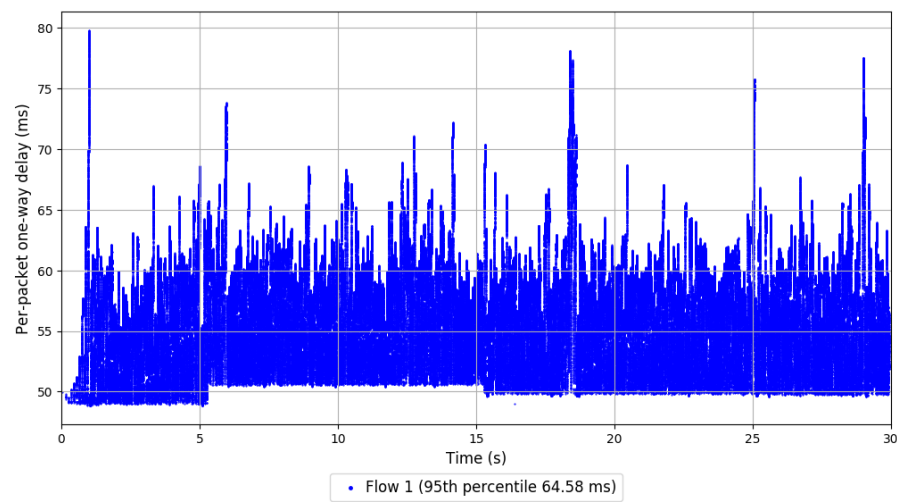
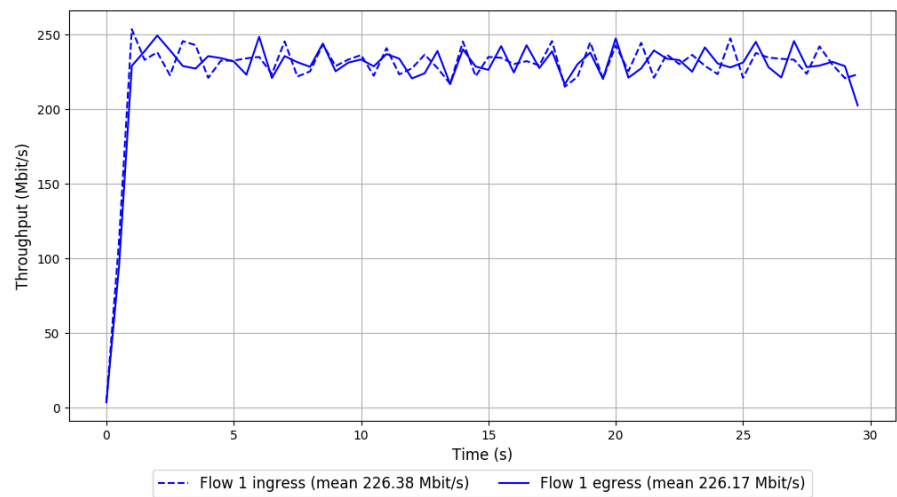
-- Flow 1:

Average throughput: 226.17 Mbit/s

95th percentile per-packet one-way delay: 64.583 ms

Loss rate: 0.32%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-27 16:44:08

End at: 2018-02-27 16:44:38

Below is generated by plot.py at 2018-02-27 20:32:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.55 Mbit/s

95th percentile per-packet one-way delay: 64.544 ms

Loss rate: 0.30%

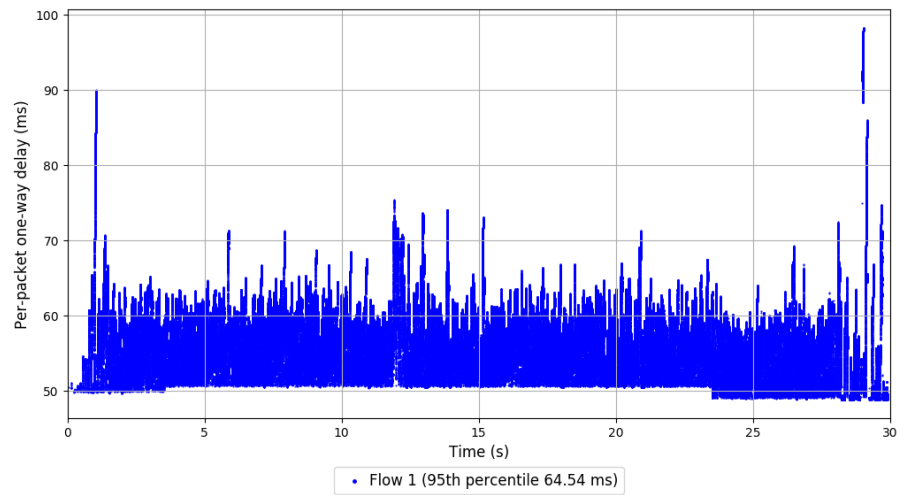
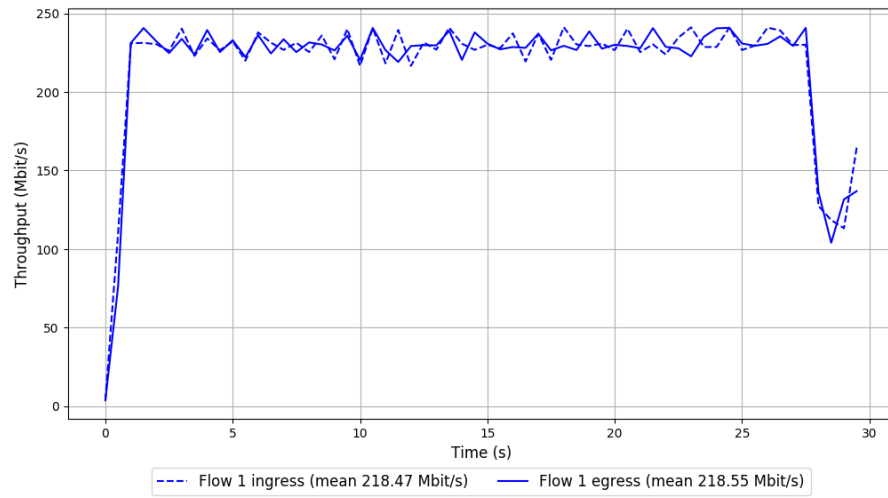
-- Flow 1:

Average throughput: 218.55 Mbit/s

95th percentile per-packet one-way delay: 64.544 ms

Loss rate: 0.30%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-02-27 14:39:14

End at: 2018-02-27 14:39:44

Below is generated by plot.py at 2018-02-27 20:32:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.25 Mbit/s

95th percentile per-packet one-way delay: 86.851 ms

Loss rate: 2.48%

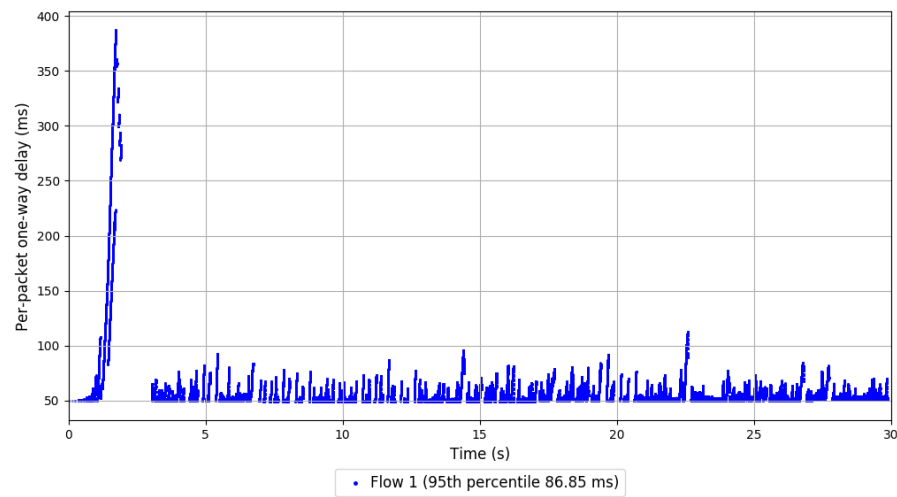
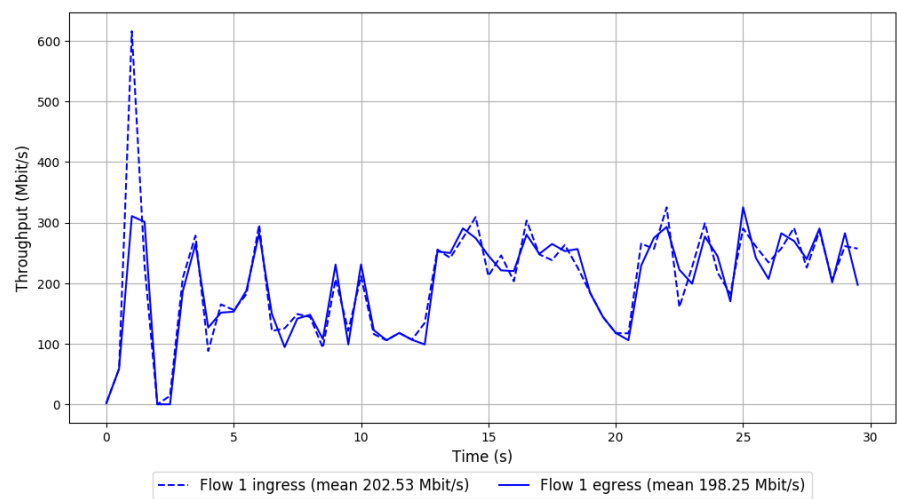
-- Flow 1:

Average throughput: 198.25 Mbit/s

95th percentile per-packet one-way delay: 86.851 ms

Loss rate: 2.48%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-27 14:53:57

End at: 2018-02-27 14:54:27

Below is generated by plot.py at 2018-02-27 20:33:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.24 Mbit/s

95th percentile per-packet one-way delay: 98.393 ms

Loss rate: 1.56%

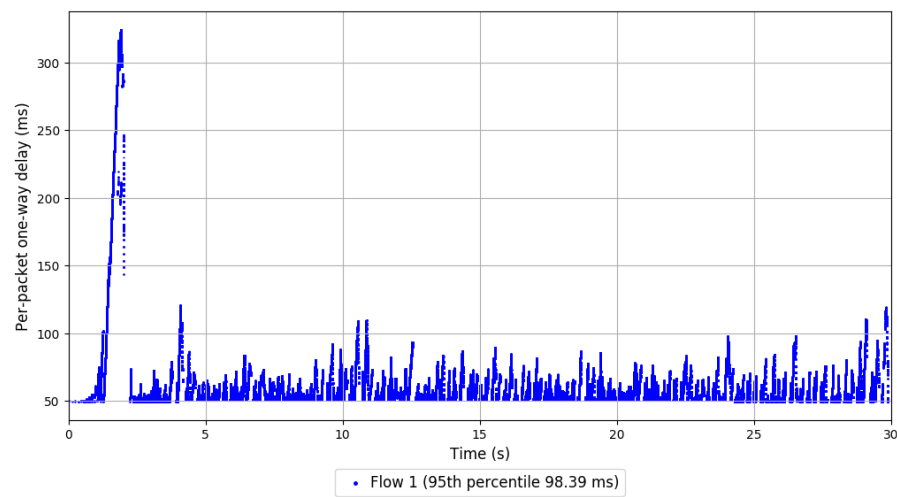
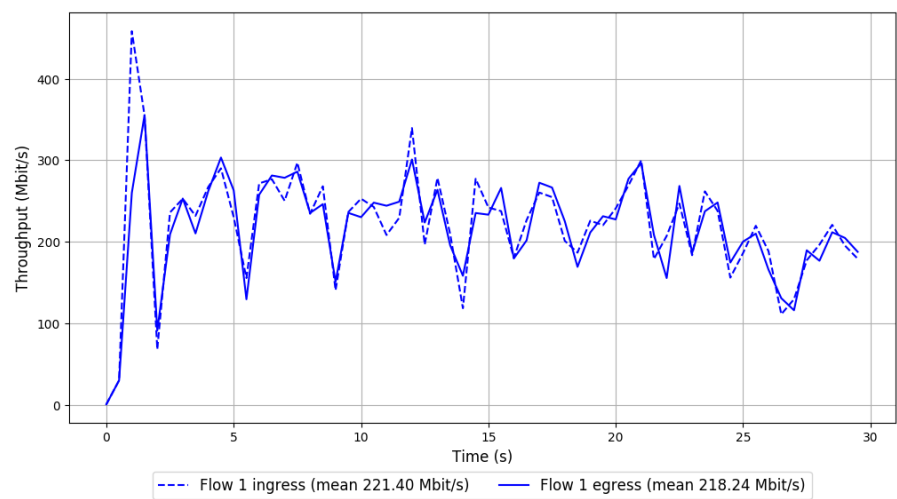
-- Flow 1:

Average throughput: 218.24 Mbit/s

95th percentile per-packet one-way delay: 98.393 ms

Loss rate: 1.56%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-27 15:08:40

End at: 2018-02-27 15:09:10

Below is generated by plot.py at 2018-02-27 20:33:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.18 Mbit/s

95th percentile per-packet one-way delay: 109.626 ms

Loss rate: 2.81%

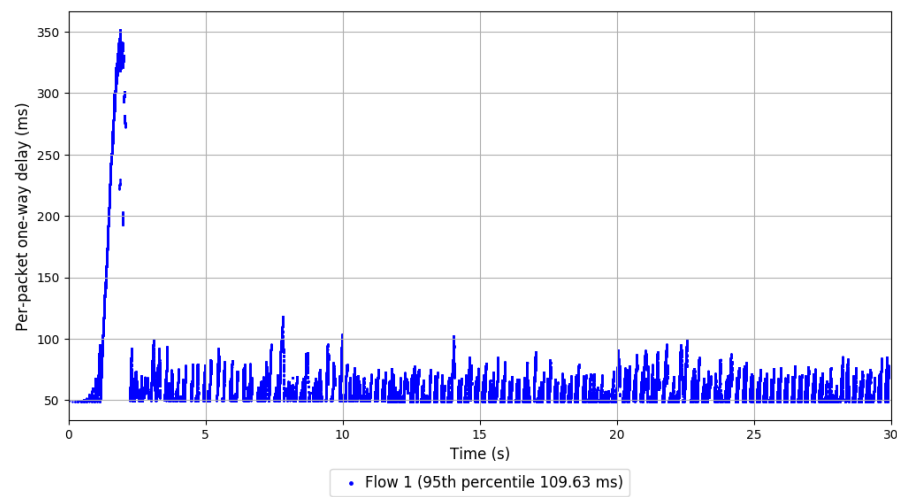
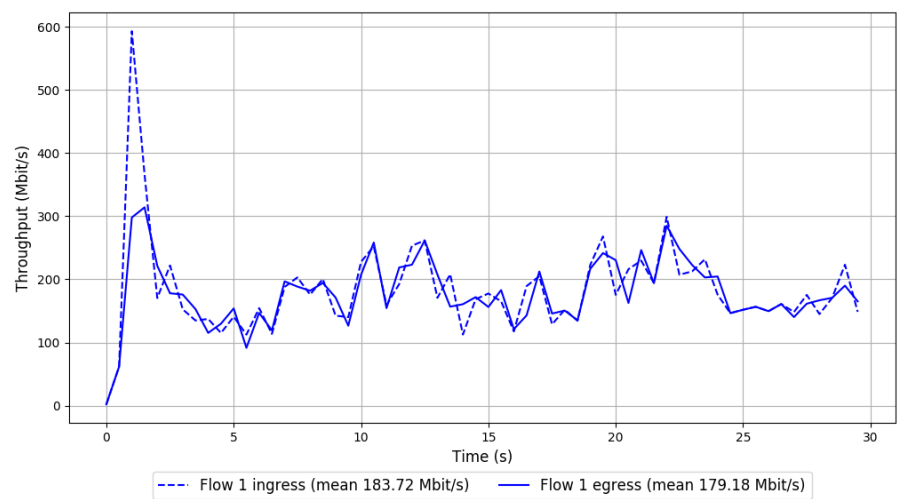
-- Flow 1:

Average throughput: 179.18 Mbit/s

95th percentile per-packet one-way delay: 109.626 ms

Loss rate: 2.81%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-27 15:23:20

End at: 2018-02-27 15:23:50

Below is generated by plot.py at 2018-02-27 20:34:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 262.30 Mbit/s

95th percentile per-packet one-way delay: 85.726 ms

Loss rate: 1.62%

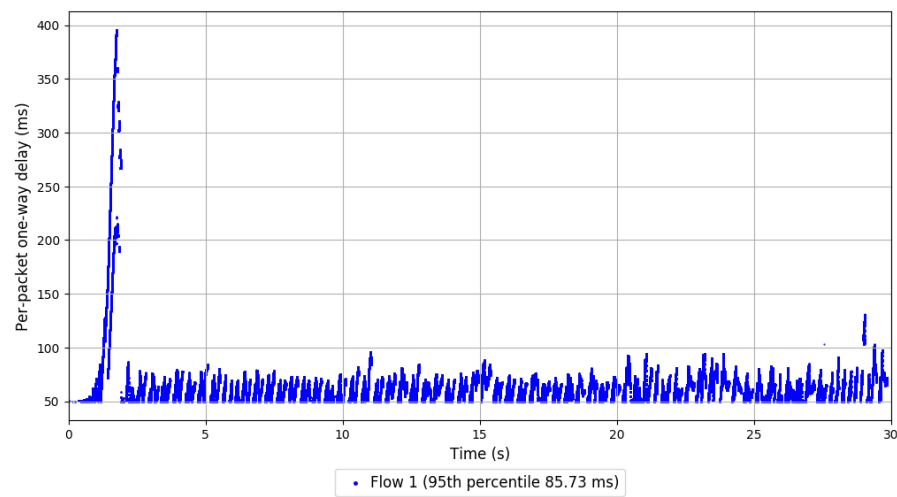
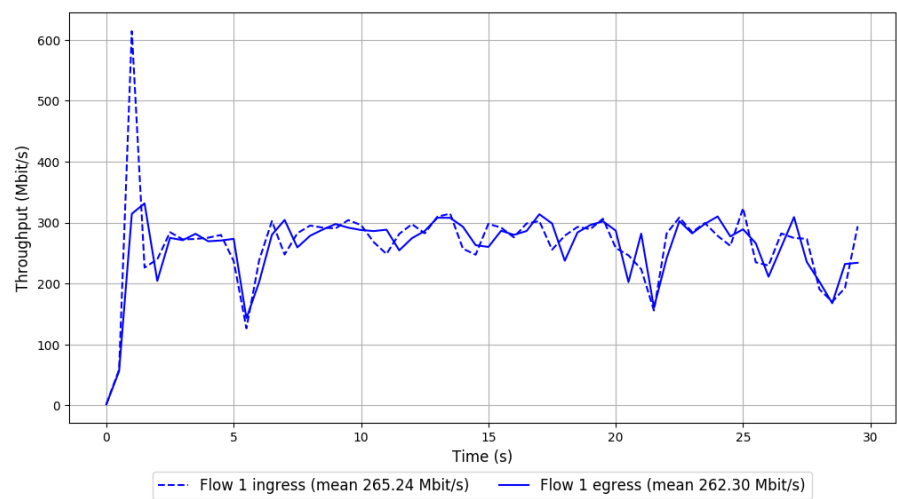
-- Flow 1:

Average throughput: 262.30 Mbit/s

95th percentile per-packet one-way delay: 85.726 ms

Loss rate: 1.62%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-27 15:37:59

End at: 2018-02-27 15:38:29

Below is generated by plot.py at 2018-02-27 20:36:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 258.49 Mbit/s

95th percentile per-packet one-way delay: 101.257 ms

Loss rate: 2.33%

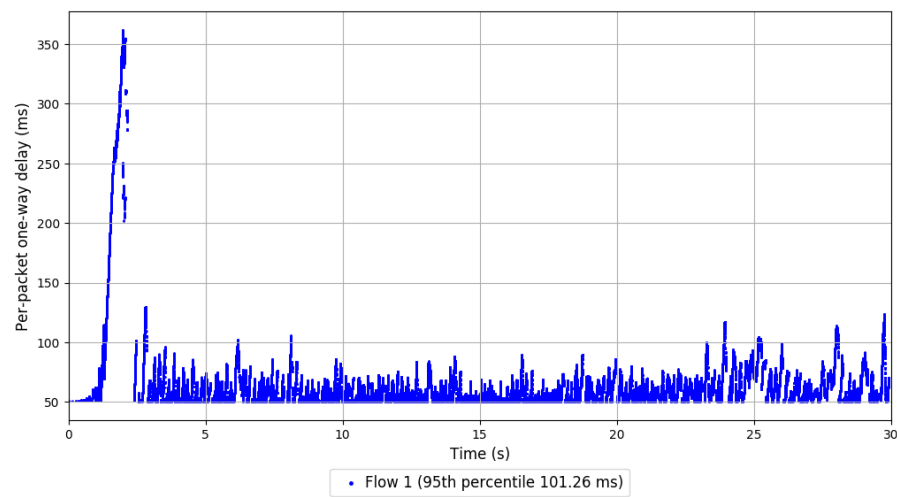
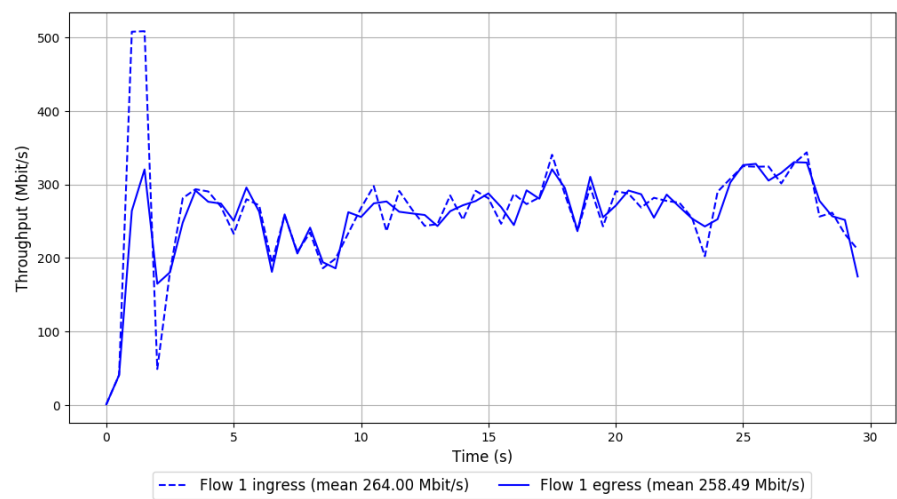
-- Flow 1:

Average throughput: 258.49 Mbit/s

95th percentile per-packet one-way delay: 101.257 ms

Loss rate: 2.33%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-27 15:52:38

End at: 2018-02-27 15:53:09

Below is generated by plot.py at 2018-02-27 20:37:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 258.50 Mbit/s

95th percentile per-packet one-way delay: 92.785 ms

Loss rate: 2.43%

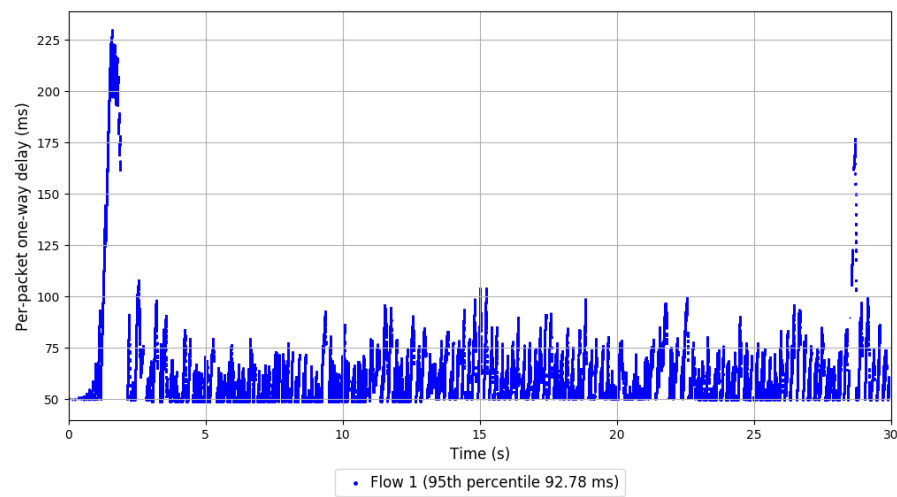
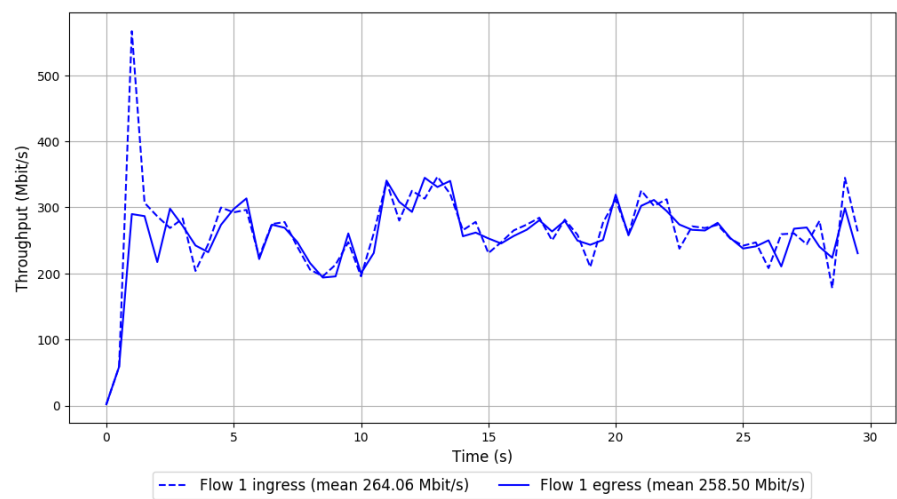
-- Flow 1:

Average throughput: 258.50 Mbit/s

95th percentile per-packet one-way delay: 92.785 ms

Loss rate: 2.43%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-27 16:07:24

End at: 2018-02-27 16:07:54

Below is generated by plot.py at 2018-02-27 20:37:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.44 Mbit/s

95th percentile per-packet one-way delay: 110.762 ms

Loss rate: 3.10%

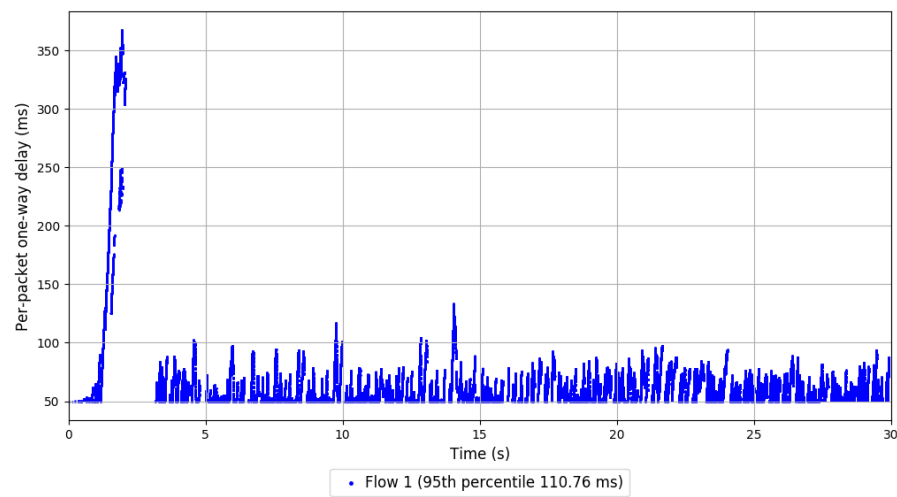
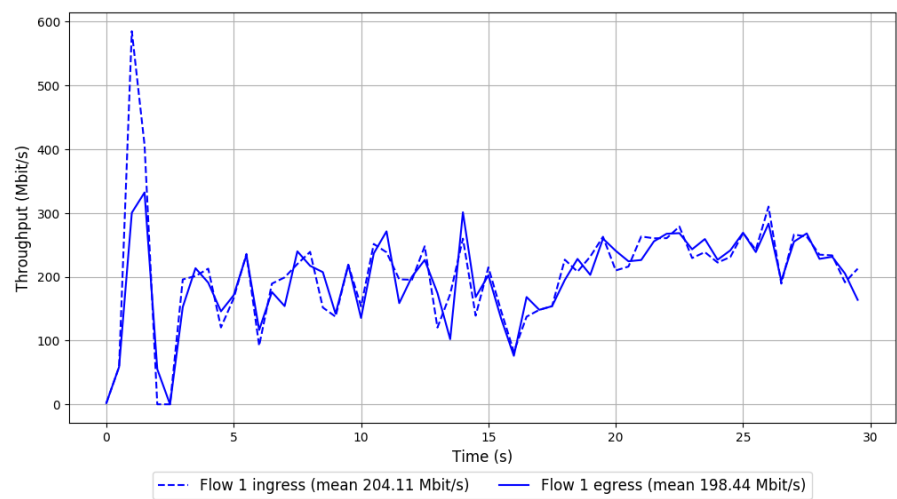
-- Flow 1:

Average throughput: 198.44 Mbit/s

95th percentile per-packet one-way delay: 110.762 ms

Loss rate: 3.10%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-27 16:21:58

End at: 2018-02-27 16:22:28

Below is generated by plot.py at 2018-02-27 20:40:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 285.37 Mbit/s

95th percentile per-packet one-way delay: 184.933 ms

Loss rate: 2.51%

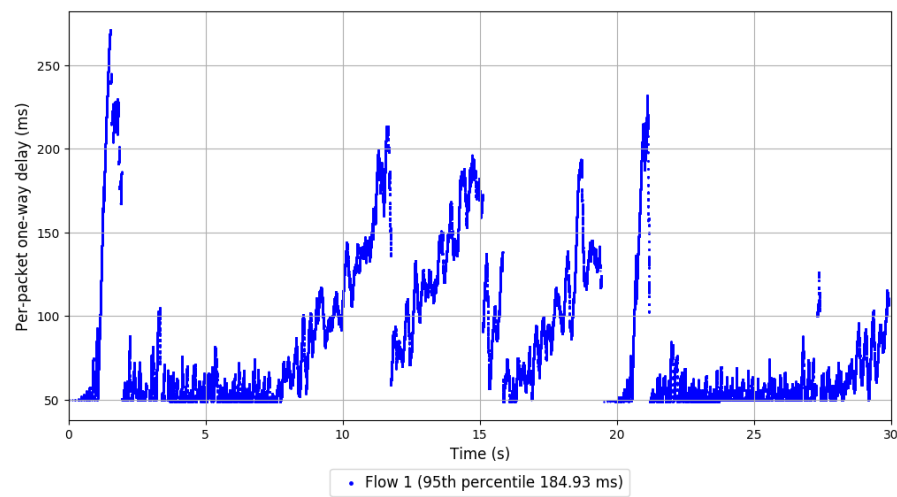
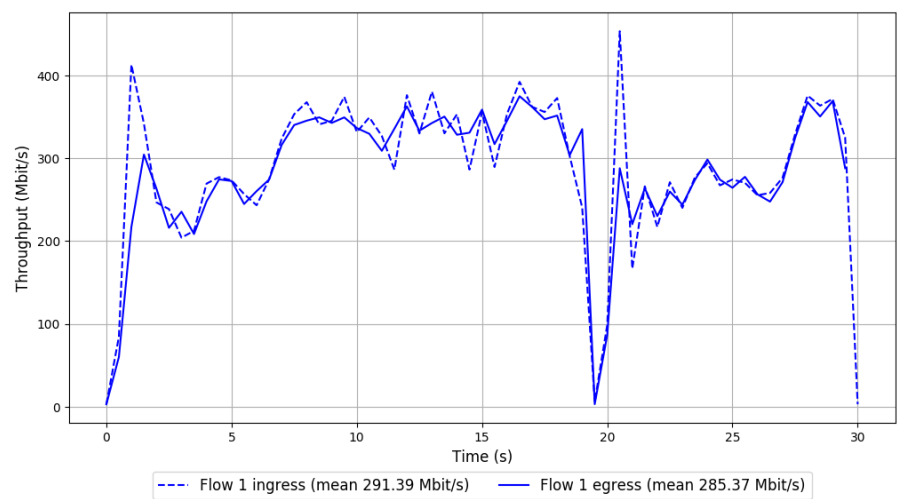
-- Flow 1:

Average throughput: 285.37 Mbit/s

95th percentile per-packet one-way delay: 184.933 ms

Loss rate: 2.51%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-27 16:36:49

End at: 2018-02-27 16:37:19

Below is generated by plot.py at 2018-02-27 20:40:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.61 Mbit/s

95th percentile per-packet one-way delay: 106.045 ms

Loss rate: 2.44%

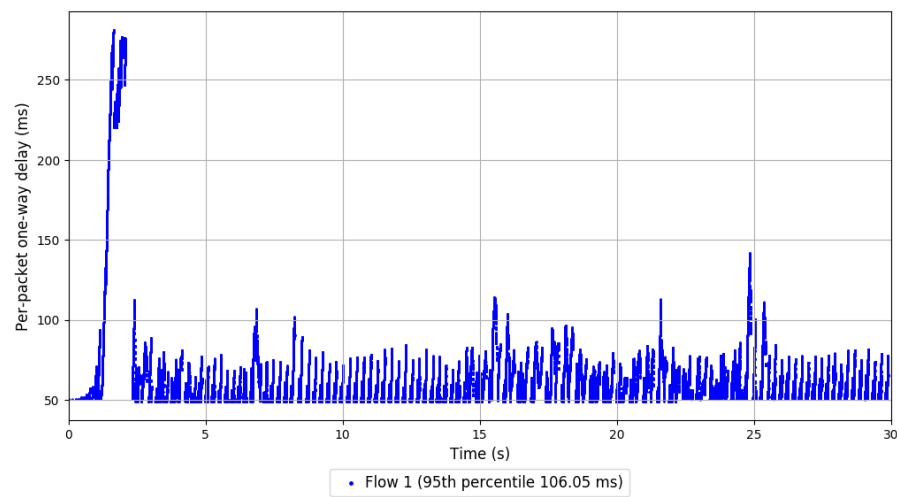
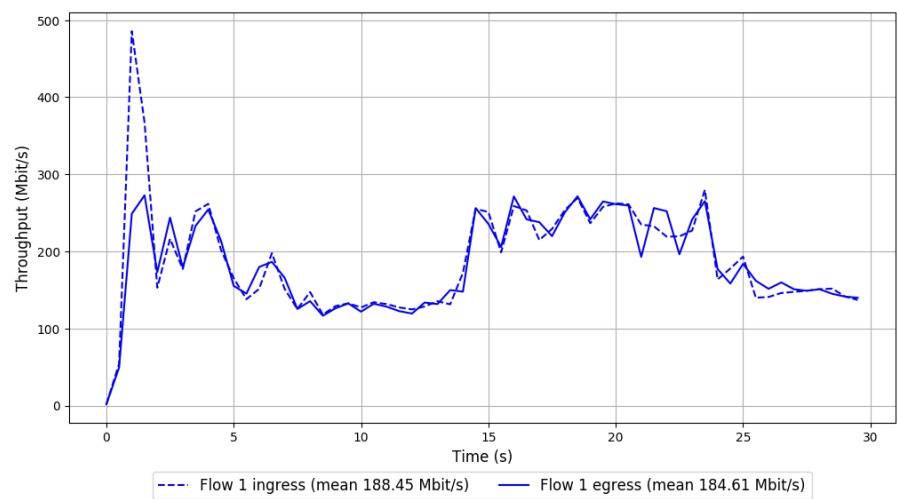
-- Flow 1:

Average throughput: 184.61 Mbit/s

95th percentile per-packet one-way delay: 106.045 ms

Loss rate: 2.44%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-27 16:51:28

End at: 2018-02-27 16:51:58

Below is generated by plot.py at 2018-02-27 20:40:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.53 Mbit/s

95th percentile per-packet one-way delay: 135.431 ms

Loss rate: 2.39%

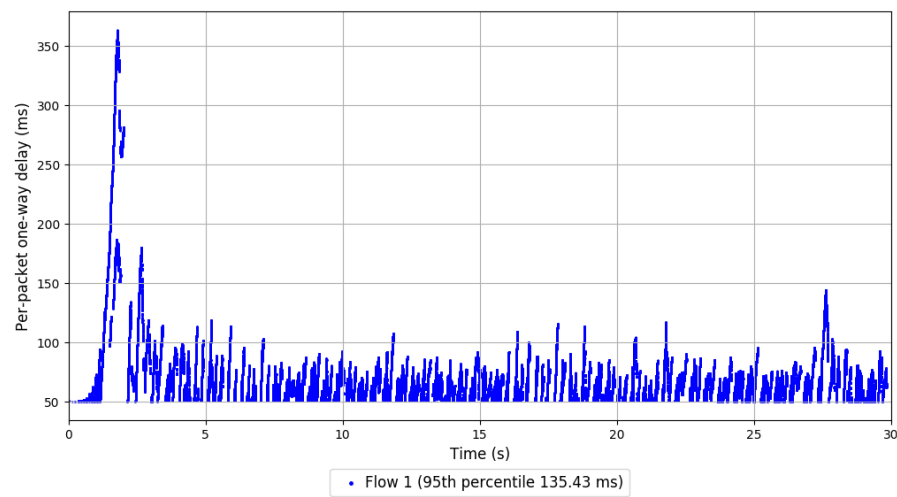
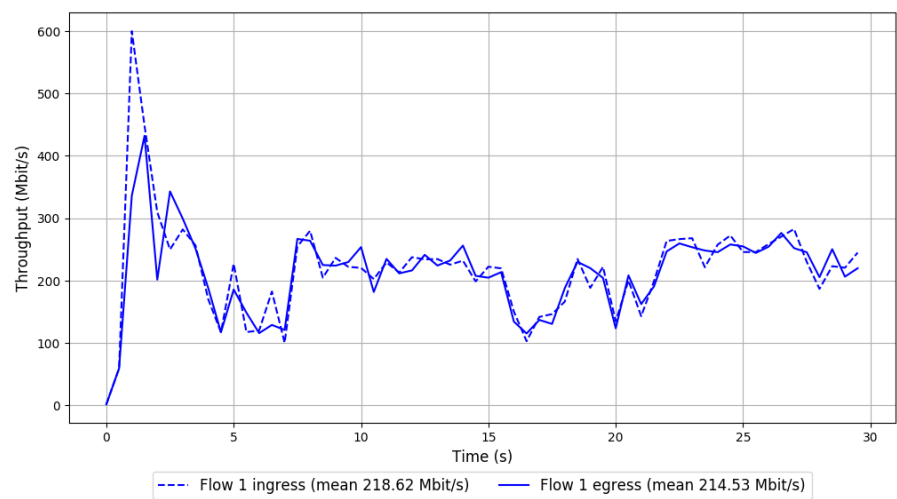
-- Flow 1:

Average throughput: 214.53 Mbit/s

95th percentile per-packet one-way delay: 135.431 ms

Loss rate: 2.39%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-02-27 14:44:18

End at: 2018-02-27 14:44:48

Below is generated by plot.py at 2018-02-27 20:40:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.43 Mbit/s

95th percentile per-packet one-way delay: 50.783 ms

Loss rate: 0.27%

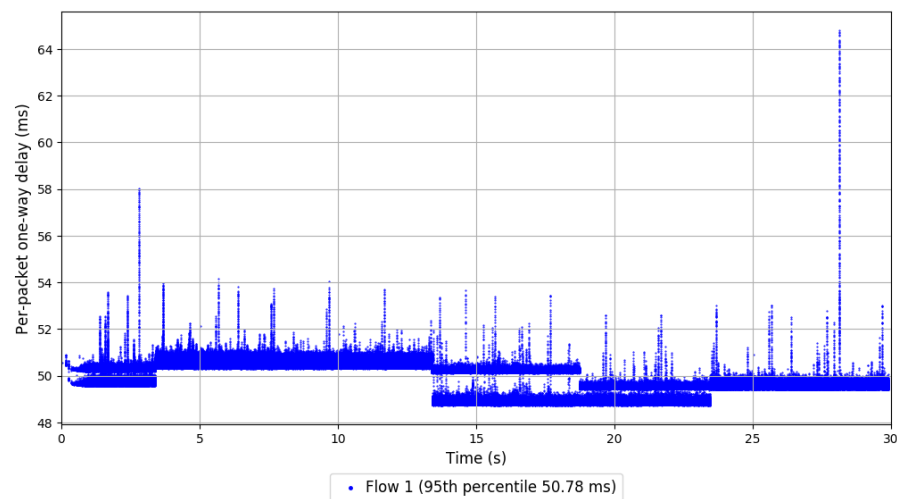
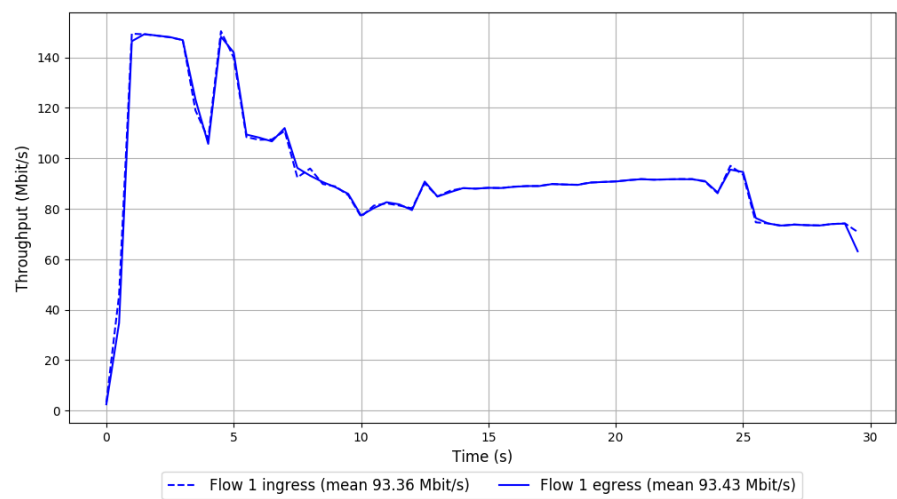
-- Flow 1:

Average throughput: 93.43 Mbit/s

95th percentile per-packet one-way delay: 50.783 ms

Loss rate: 0.27%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-27 14:59:03

End at: 2018-02-27 14:59:33

Below is generated by plot.py at 2018-02-27 20:40:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.86 Mbit/s

95th percentile per-packet one-way delay: 50.797 ms

Loss rate: 0.34%

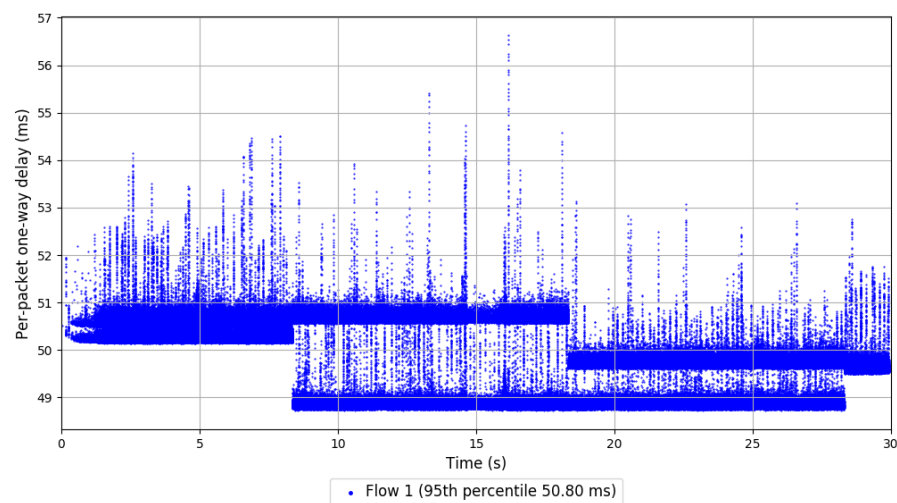
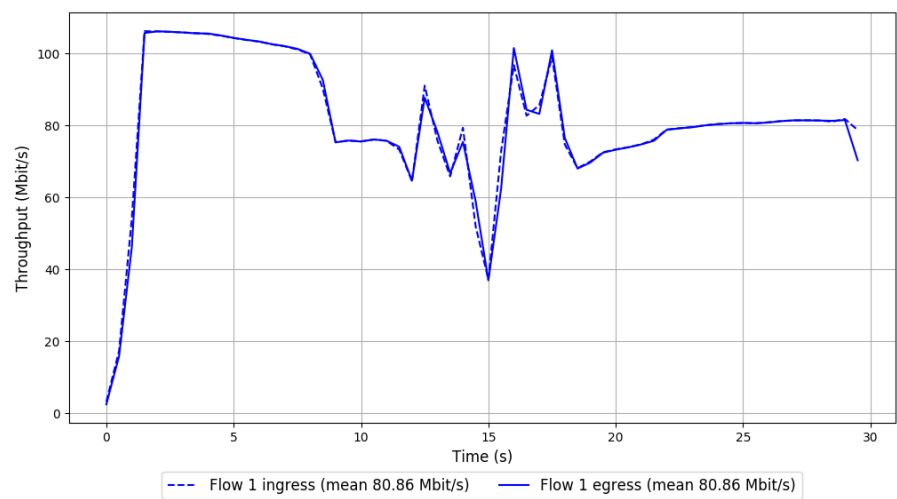
-- Flow 1:

Average throughput: 80.86 Mbit/s

95th percentile per-packet one-way delay: 50.797 ms

Loss rate: 0.34%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-27 15:13:42

End at: 2018-02-27 15:14:12

Below is generated by plot.py at 2018-02-27 20:40:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.38 Mbit/s

95th percentile per-packet one-way delay: 50.652 ms

Loss rate: 0.23%

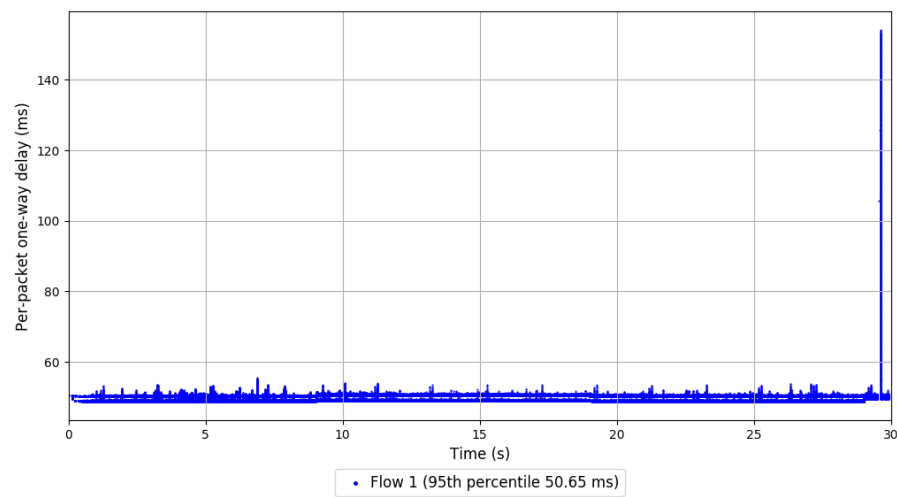
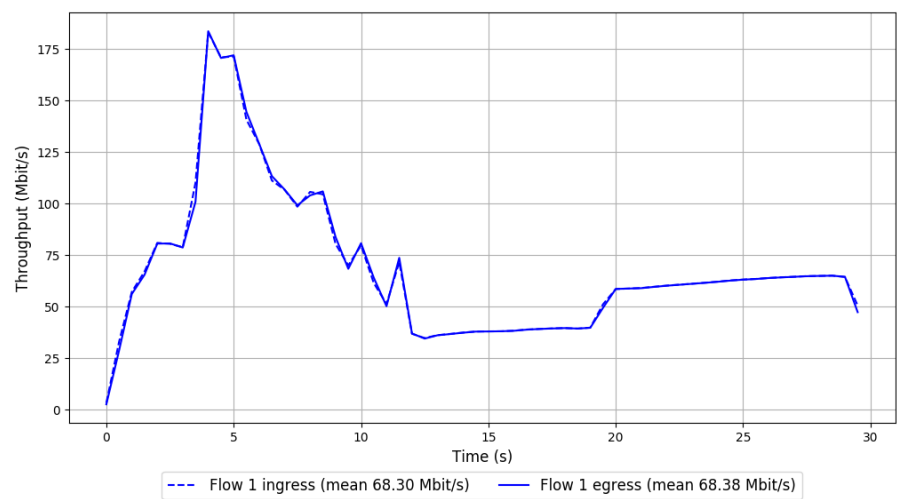
-- Flow 1:

Average throughput: 68.38 Mbit/s

95th percentile per-packet one-way delay: 50.652 ms

Loss rate: 0.23%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-27 15:28:30

End at: 2018-02-27 15:29:00

Below is generated by plot.py at 2018-02-27 20:40:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.02 Mbit/s

95th percentile per-packet one-way delay: 50.593 ms

Loss rate: 0.08%

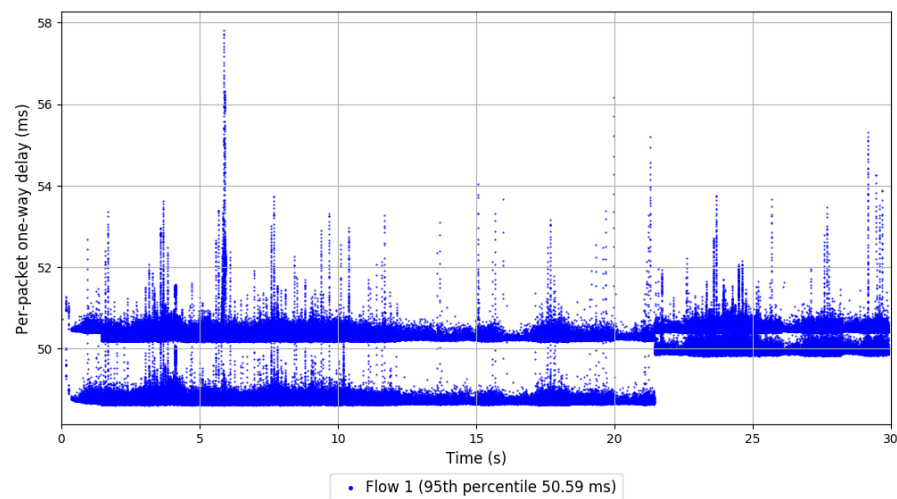
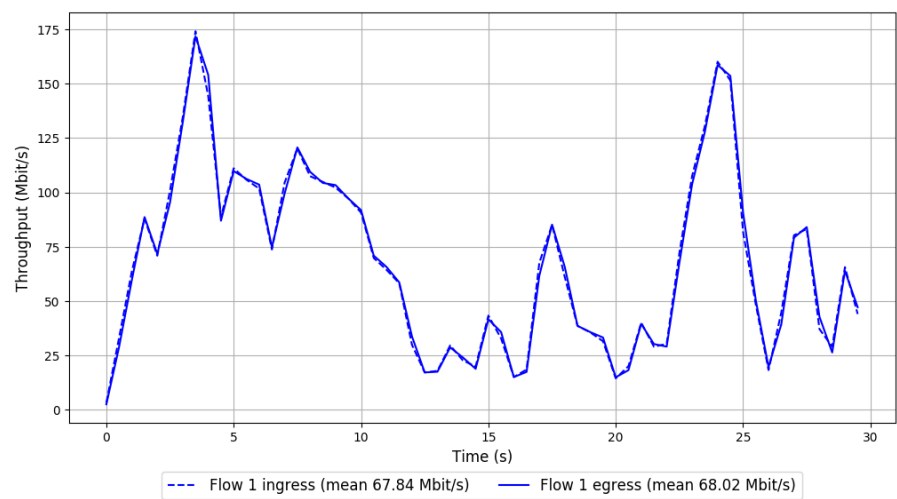
-- Flow 1:

Average throughput: 68.02 Mbit/s

95th percentile per-packet one-way delay: 50.593 ms

Loss rate: 0.08%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-27 15:43:02

End at: 2018-02-27 15:43:32

Below is generated by plot.py at 2018-02-27 20:42:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.45 Mbit/s

95th percentile per-packet one-way delay: 50.879 ms

Loss rate: 0.04%

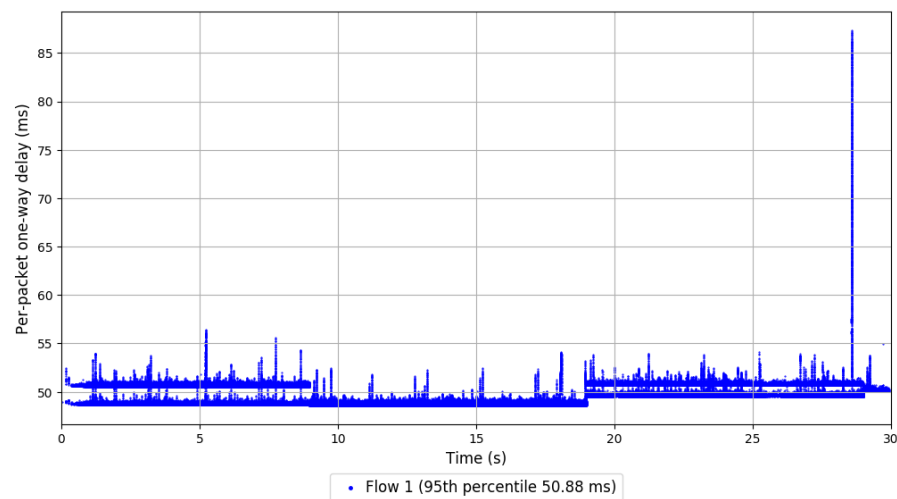
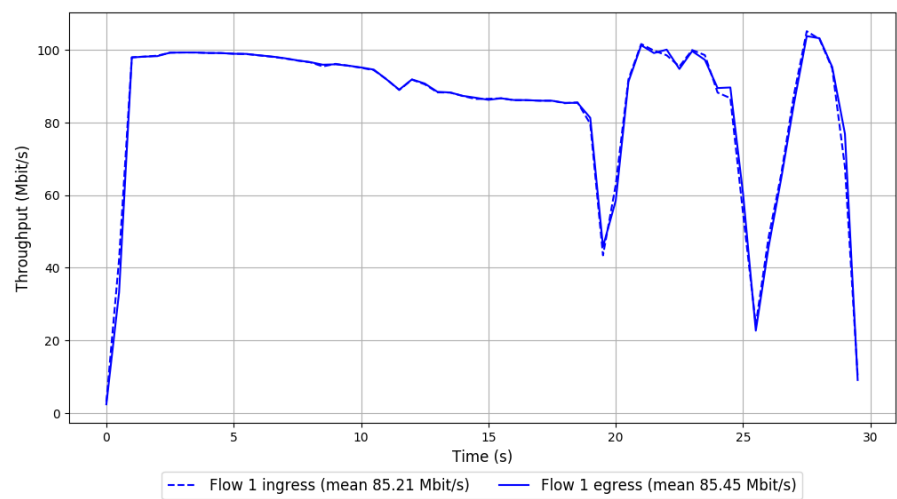
-- Flow 1:

Average throughput: 85.45 Mbit/s

95th percentile per-packet one-way delay: 50.879 ms

Loss rate: 0.04%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-27 15:57:44

End at: 2018-02-27 15:58:14

Below is generated by plot.py at 2018-02-27 20:42:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.32 Mbit/s

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

Loss rate: 0.44%

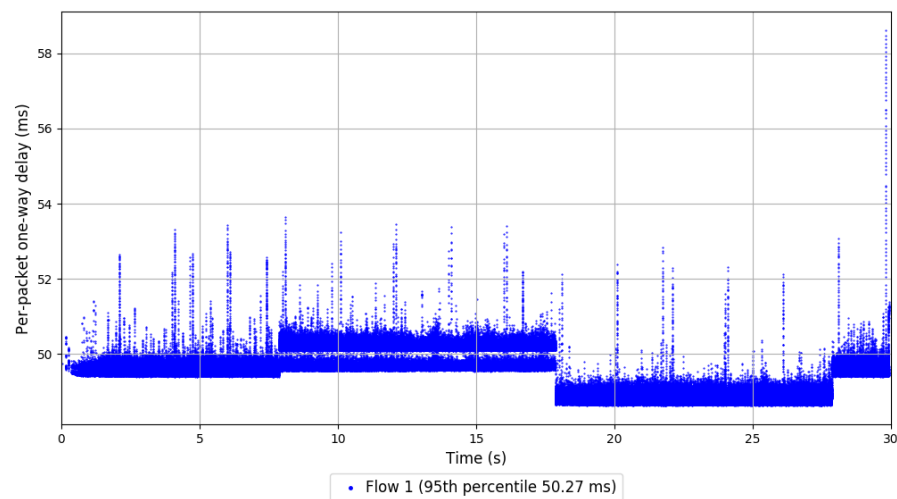
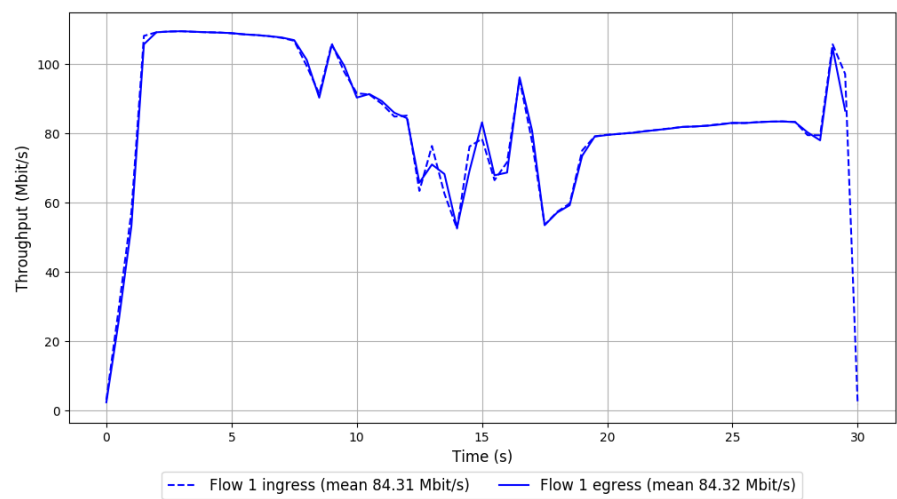
-- Flow 1:

Average throughput: 84.32 Mbit/s

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

Loss rate: 0.44%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-27 16:12:28

End at: 2018-02-27 16:12:58

Below is generated by plot.py at 2018-02-27 20:42:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.85 Mbit/s

95th percentile per-packet one-way delay: 50.801 ms

Loss rate: 0.29%

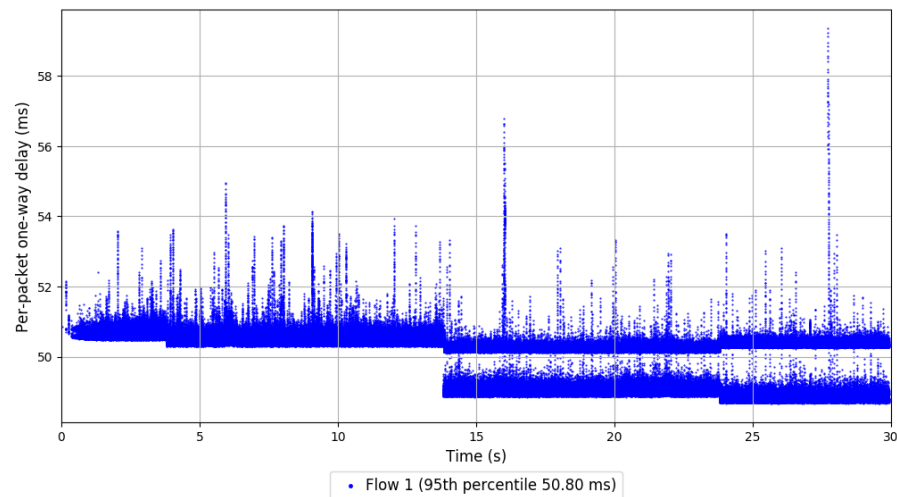
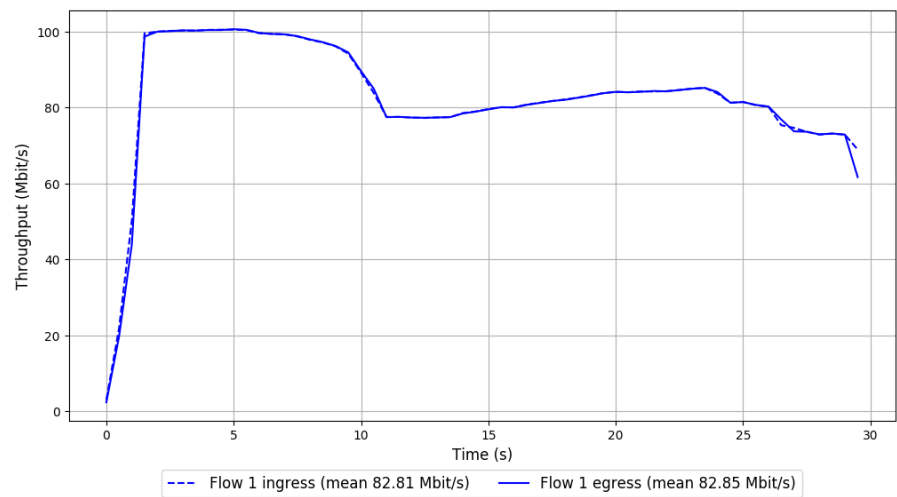
-- Flow 1:

Average throughput: 82.85 Mbit/s

95th percentile per-packet one-way delay: 50.801 ms

Loss rate: 0.29%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-27 16:27:09

End at: 2018-02-27 16:27:39

Below is generated by plot.py at 2018-02-27 20:42:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.32 Mbit/s

95th percentile per-packet one-way delay: 50.858 ms

Loss rate: 0.20%

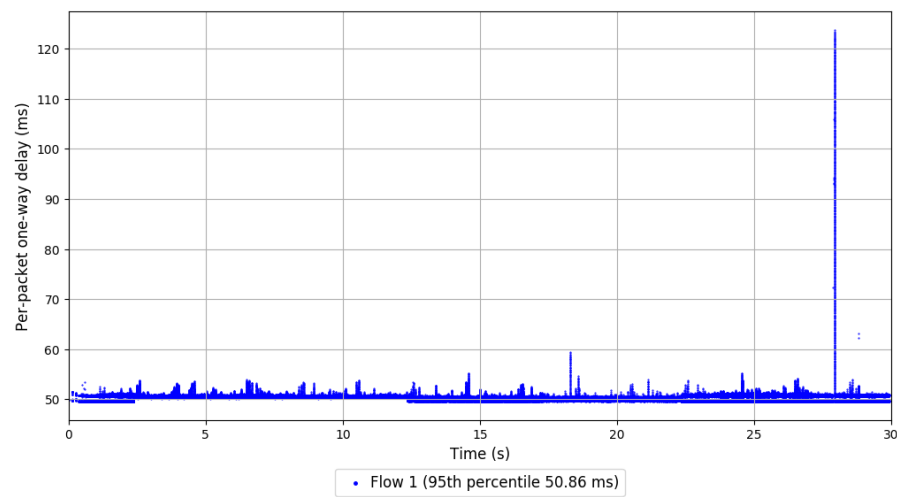
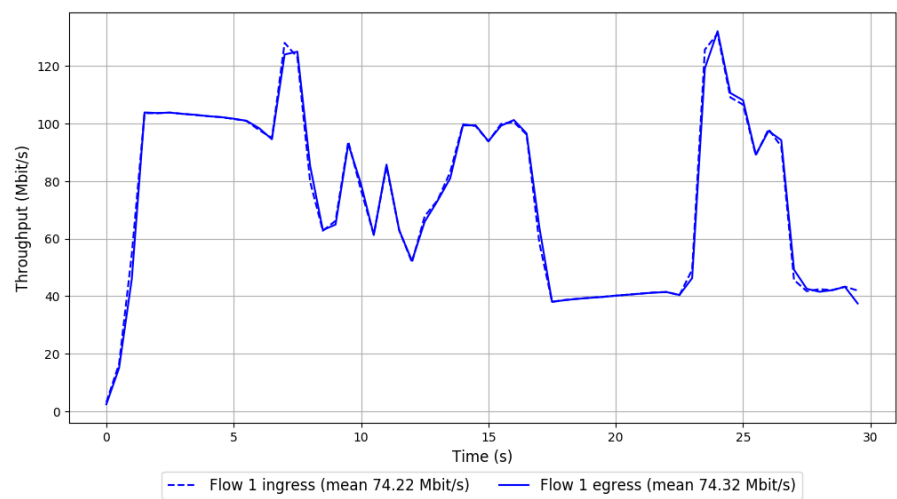
-- Flow 1:

Average throughput: 74.32 Mbit/s

95th percentile per-packet one-way delay: 50.858 ms

Loss rate: 0.20%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-27 16:41:49

End at: 2018-02-27 16:42:19

Below is generated by plot.py at 2018-02-27 20:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.71 Mbit/s

95th percentile per-packet one-way delay: 50.930 ms

Loss rate: 0.13%

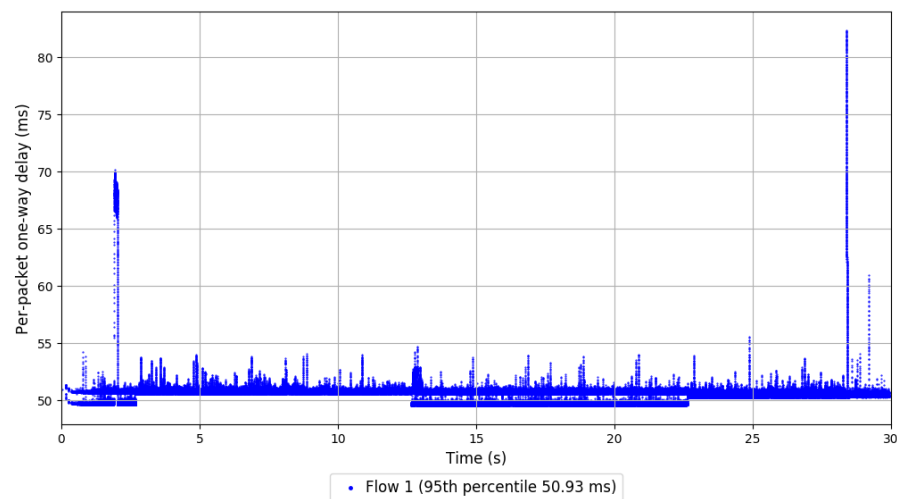
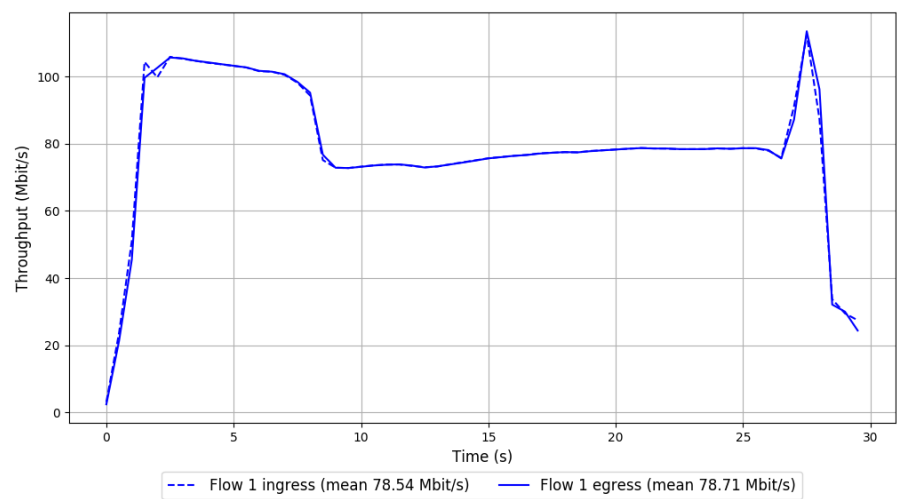
-- Flow 1:

Average throughput: 78.71 Mbit/s

95th percentile per-packet one-way delay: 50.930 ms

Loss rate: 0.13%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-27 16:56:31

End at: 2018-02-27 16:57:01

Below is generated by plot.py at 2018-02-27 20:43:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.82 Mbit/s

95th percentile per-packet one-way delay: 50.397 ms

Loss rate: 0.17%

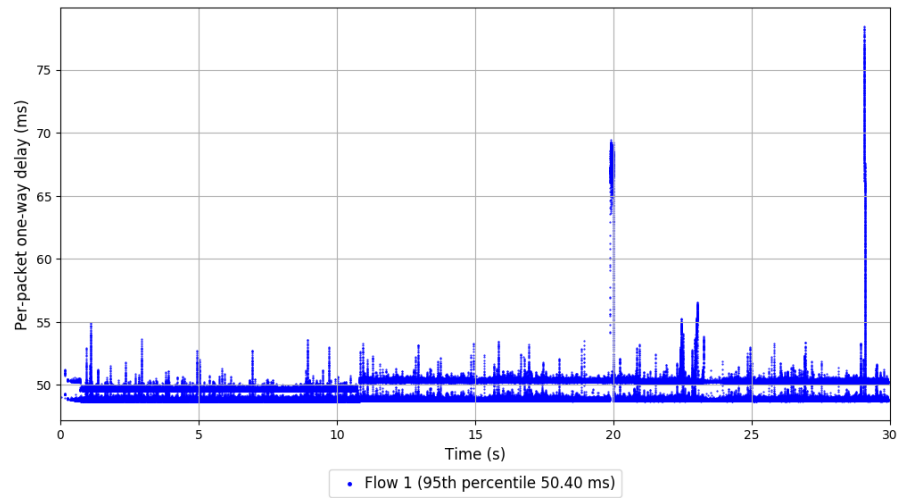
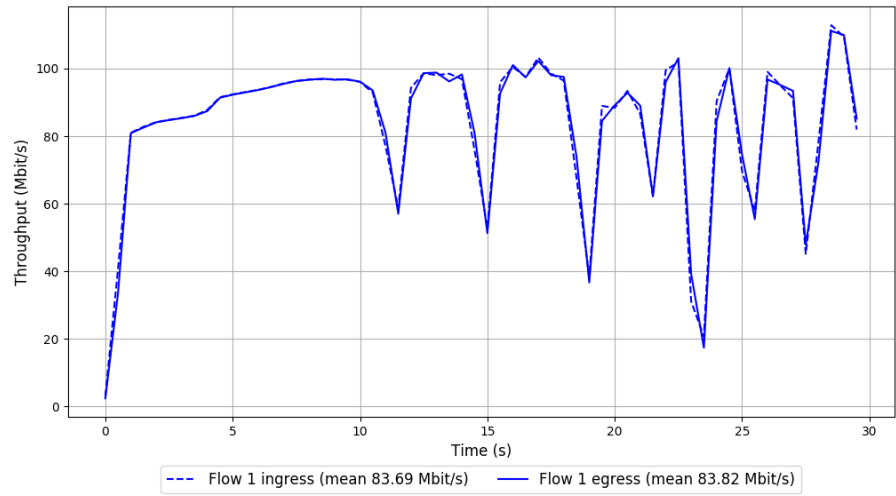
-- Flow 1:

Average throughput: 83.82 Mbit/s

95th percentile per-packet one-way delay: 50.397 ms

Loss rate: 0.17%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-02-27 14:37:20

End at: 2018-02-27 14:37:50

Below is generated by plot.py at 2018-02-27 21:05:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 812.92 Mbit/s

95th percentile per-packet one-way delay: 162.708 ms

Loss rate: 11.38%

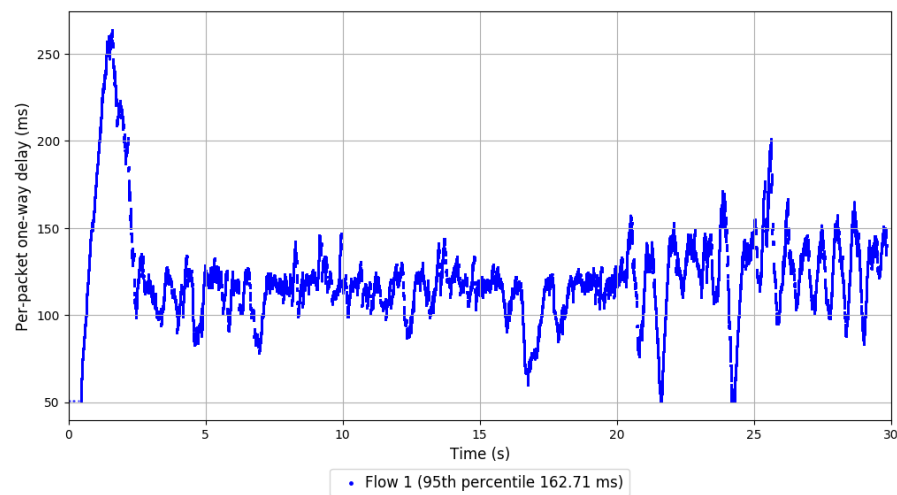
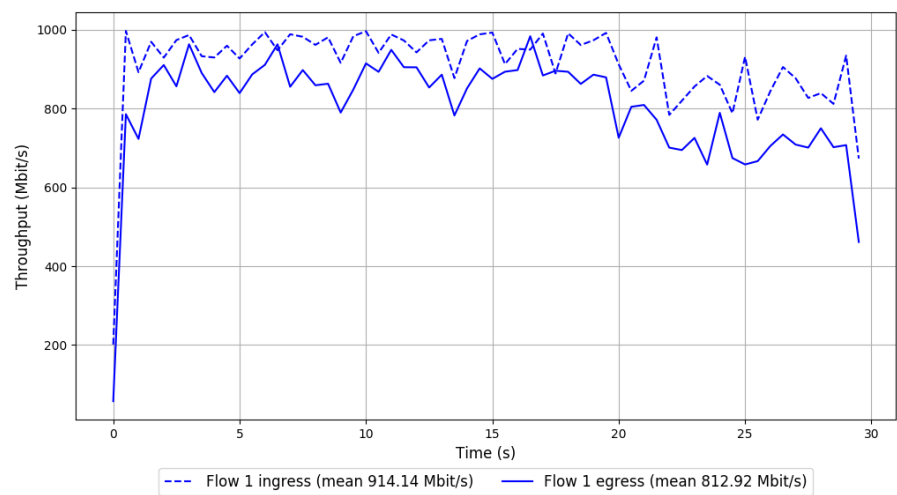
-- Flow 1:

Average throughput: 812.92 Mbit/s

95th percentile per-packet one-way delay: 162.708 ms

Loss rate: 11.38%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-27 14:52:03

End at: 2018-02-27 14:52:33

Below is generated by plot.py at 2018-02-27 21:05:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 731.37 Mbit/s

95th percentile per-packet one-way delay: 160.512 ms

Loss rate: 15.50%

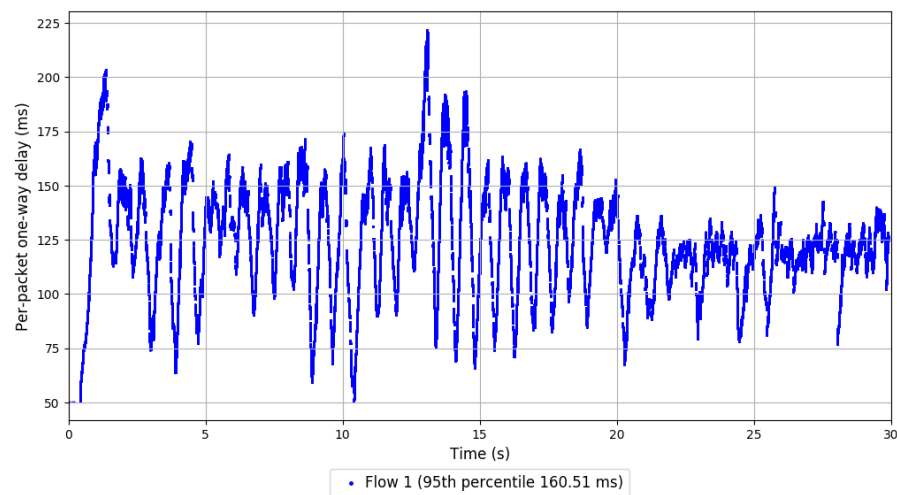
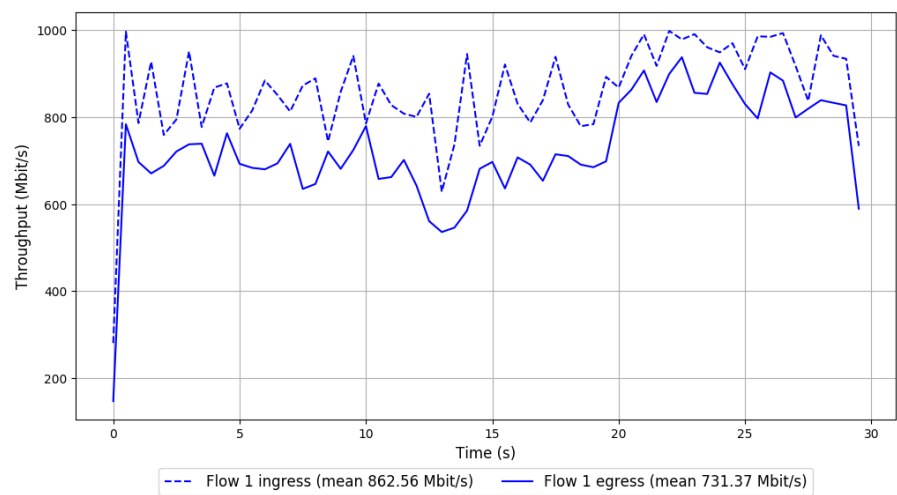
-- Flow 1:

Average throughput: 731.37 Mbit/s

95th percentile per-packet one-way delay: 160.512 ms

Loss rate: 15.50%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-27 15:06:42

End at: 2018-02-27 15:07:12

Below is generated by plot.py at 2018-02-27 21:08:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 823.92 Mbit/s

95th percentile per-packet one-way delay: 141.157 ms

Loss rate: 11.26%

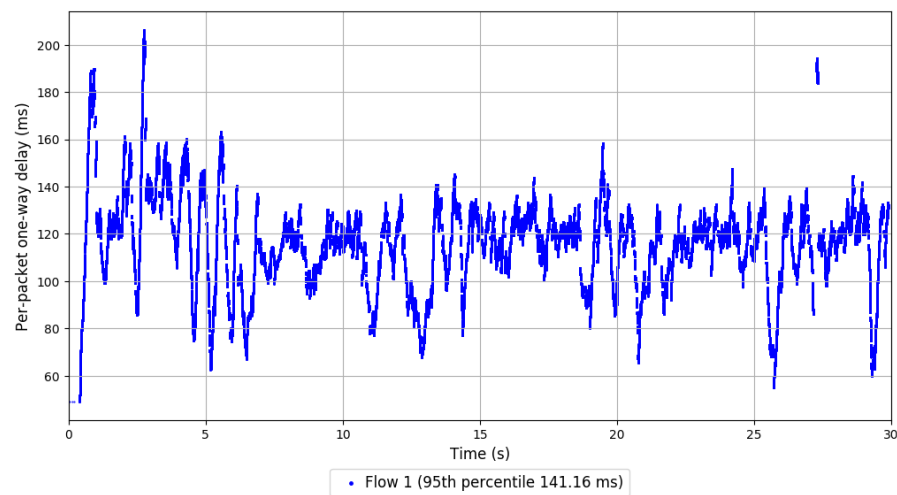
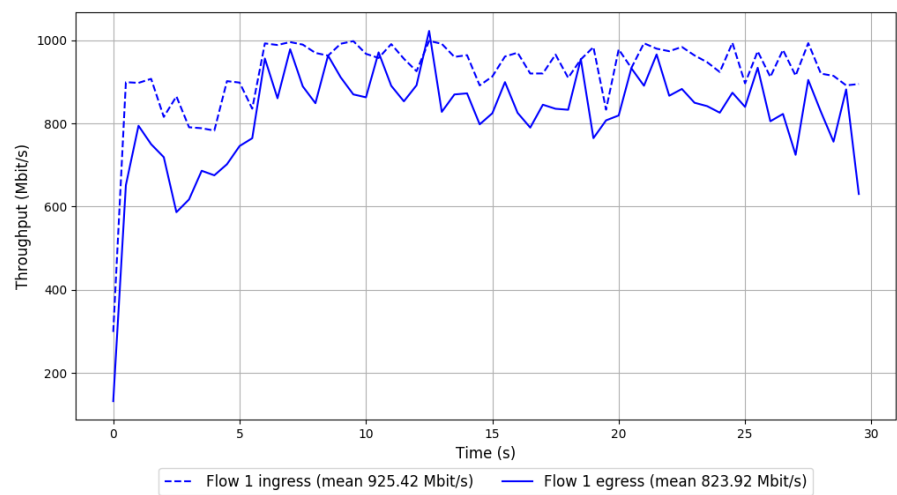
-- Flow 1:

Average throughput: 823.92 Mbit/s

95th percentile per-packet one-way delay: 141.157 ms

Loss rate: 11.26%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-27 15:21:23

End at: 2018-02-27 15:21:53

Below is generated by plot.py at 2018-02-27 21:08:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 783.16 Mbit/s

95th percentile per-packet one-way delay: 144.849 ms

Loss rate: 12.39%

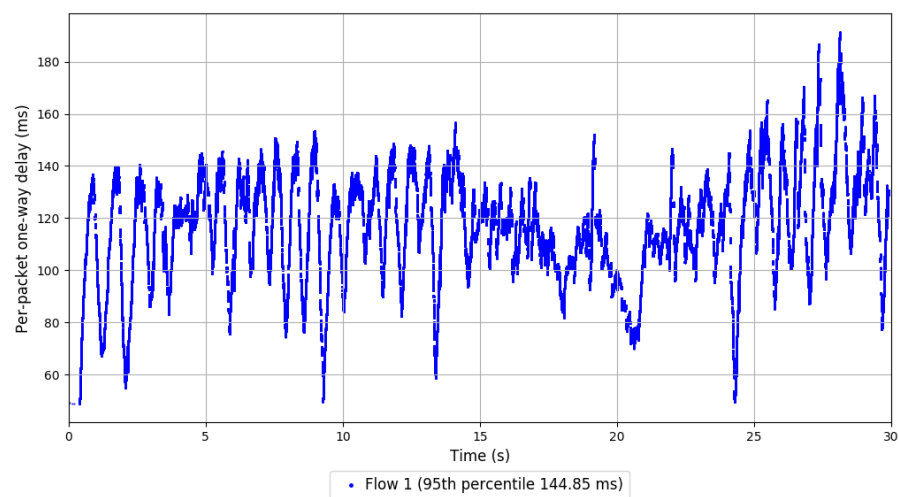
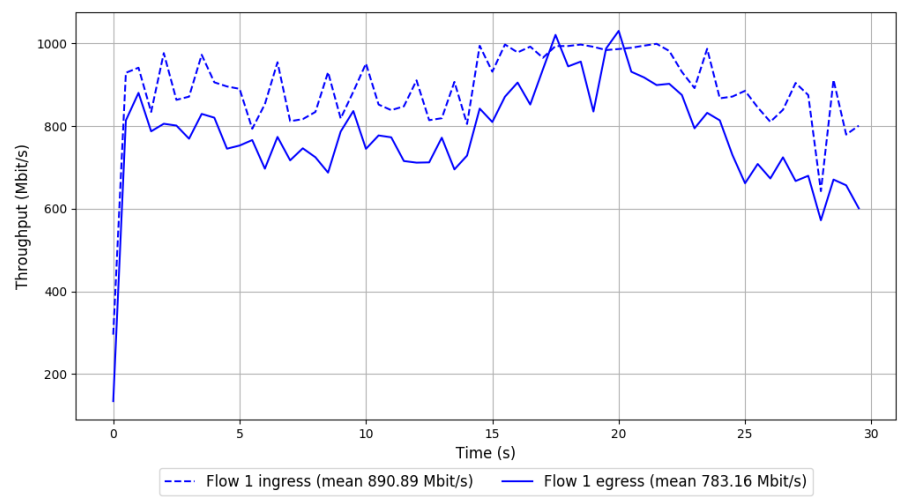
-- Flow 1:

Average throughput: 783.16 Mbit/s

95th percentile per-packet one-way delay: 144.849 ms

Loss rate: 12.39%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-27 15:36:04

End at: 2018-02-27 15:36:34

Below is generated by plot.py at 2018-02-27 21:08:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 761.99 Mbit/s

95th percentile per-packet one-way delay: 149.224 ms

Loss rate: 13.76%

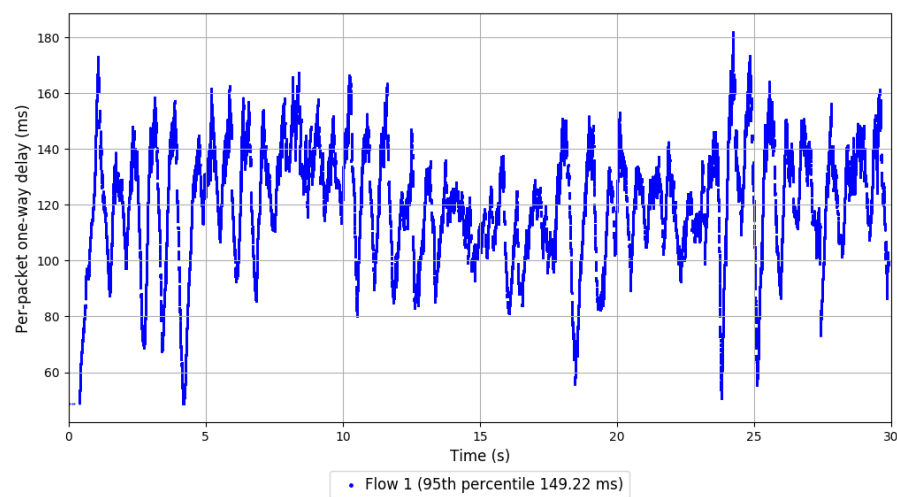
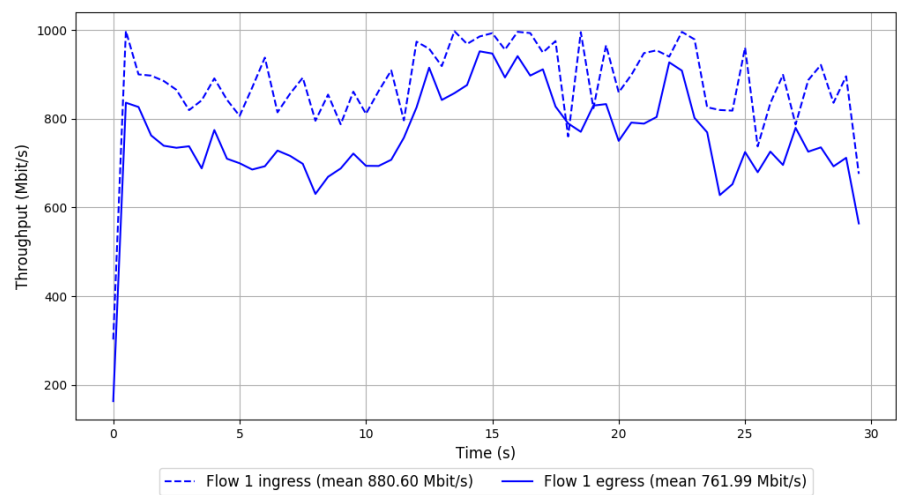
-- Flow 1:

Average throughput: 761.99 Mbit/s

95th percentile per-packet one-way delay: 149.224 ms

Loss rate: 13.76%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-27 15:50:43

End at: 2018-02-27 15:51:13

Below is generated by plot.py at 2018-02-27 21:08:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 812.24 Mbit/s

95th percentile per-packet one-way delay: 139.293 ms

Loss rate: 10.76%

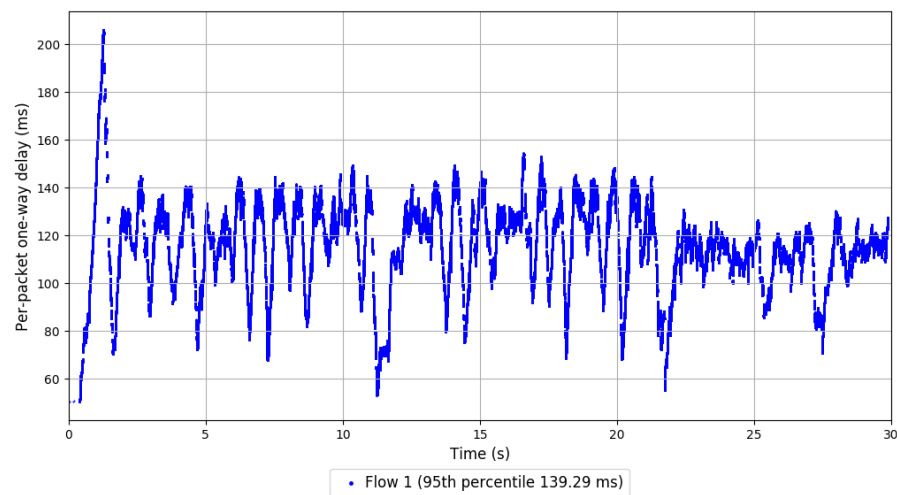
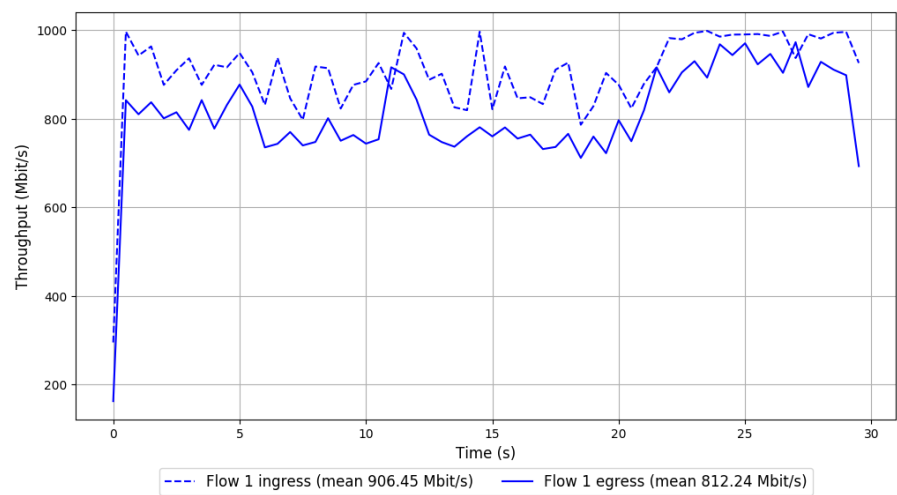
-- Flow 1:

Average throughput: 812.24 Mbit/s

95th percentile per-packet one-way delay: 139.293 ms

Loss rate: 10.76%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-27 16:05:26

End at: 2018-02-27 16:05:56

Below is generated by plot.py at 2018-02-27 21:08:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 813.24 Mbit/s

95th percentile per-packet one-way delay: 145.677 ms

Loss rate: 11.07%

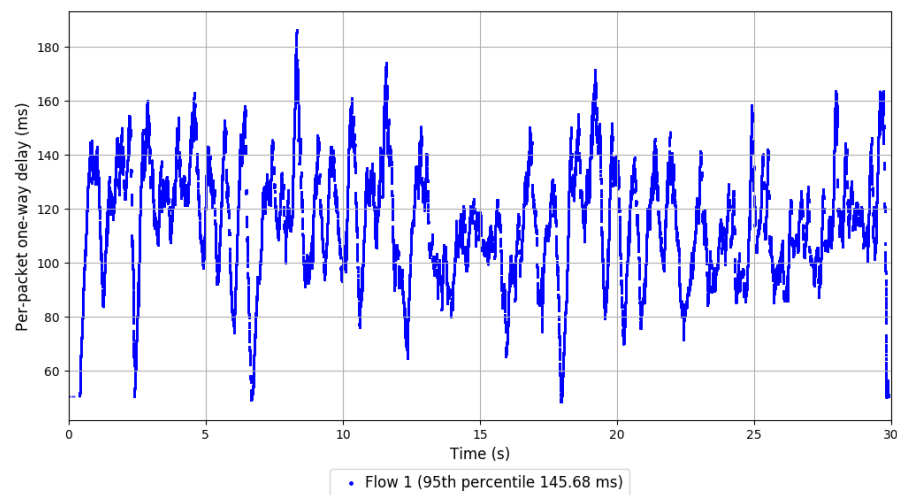
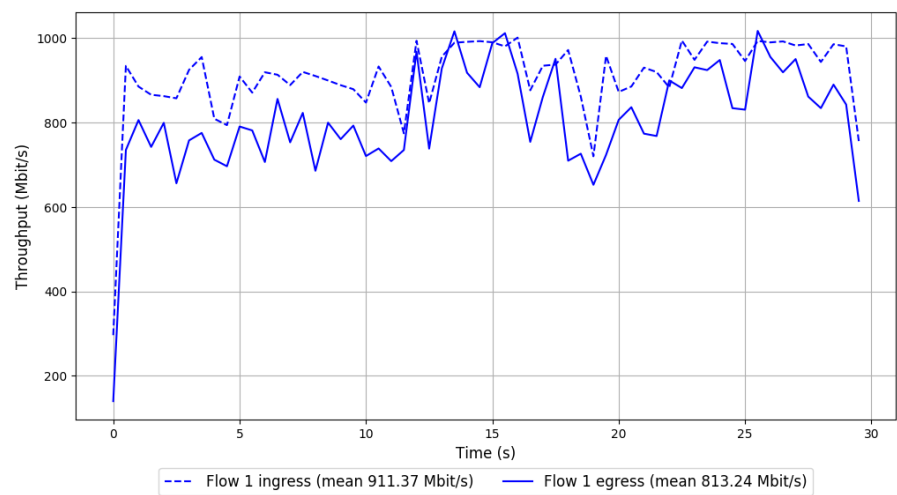
-- Flow 1:

Average throughput: 813.24 Mbit/s

95th percentile per-packet one-way delay: 145.677 ms

Loss rate: 11.07%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-27 16:20:03

End at: 2018-02-27 16:20:33

Below is generated by plot.py at 2018-02-27 21:08:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 670.41 Mbit/s

95th percentile per-packet one-way delay: 164.380 ms

Loss rate: 19.25%

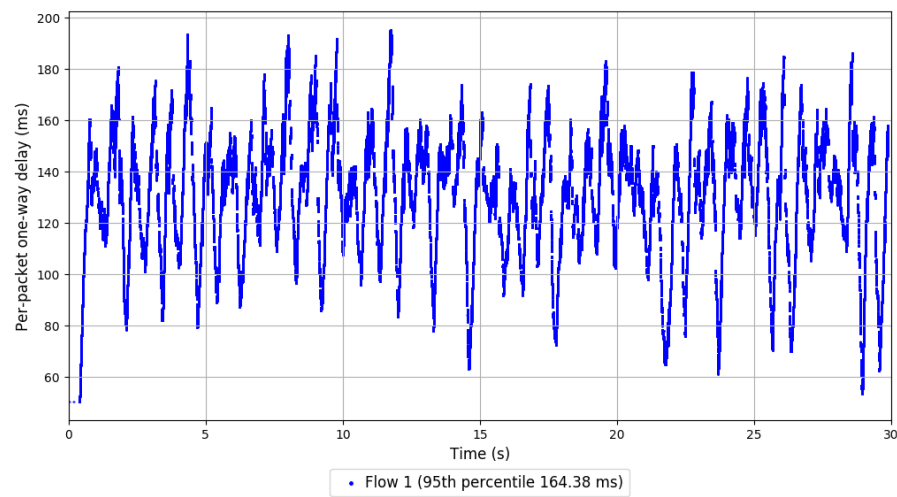
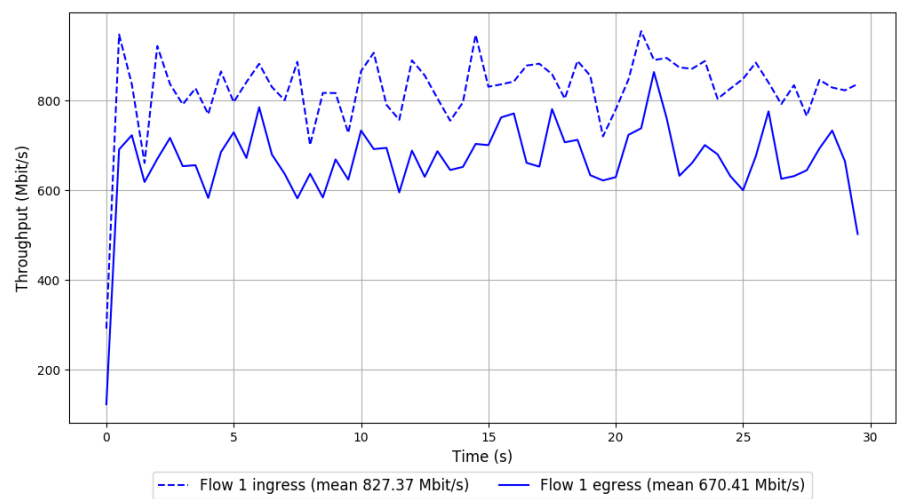
-- Flow 1:

Average throughput: 670.41 Mbit/s

95th percentile per-packet one-way delay: 164.380 ms

Loss rate: 19.25%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-27 16:34:50

End at: 2018-02-27 16:35:20

Below is generated by plot.py at 2018-02-27 21:29:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 793.78 Mbit/s

95th percentile per-packet one-way delay: 151.573 ms

Loss rate: 12.25%

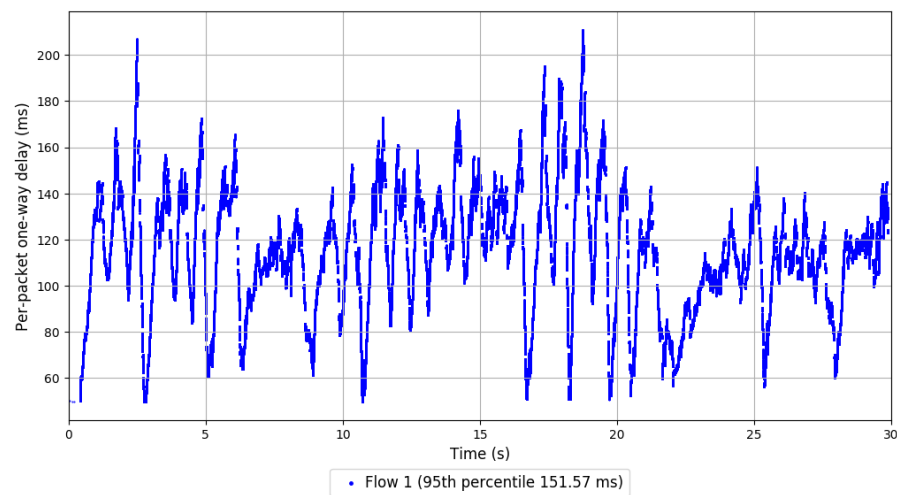
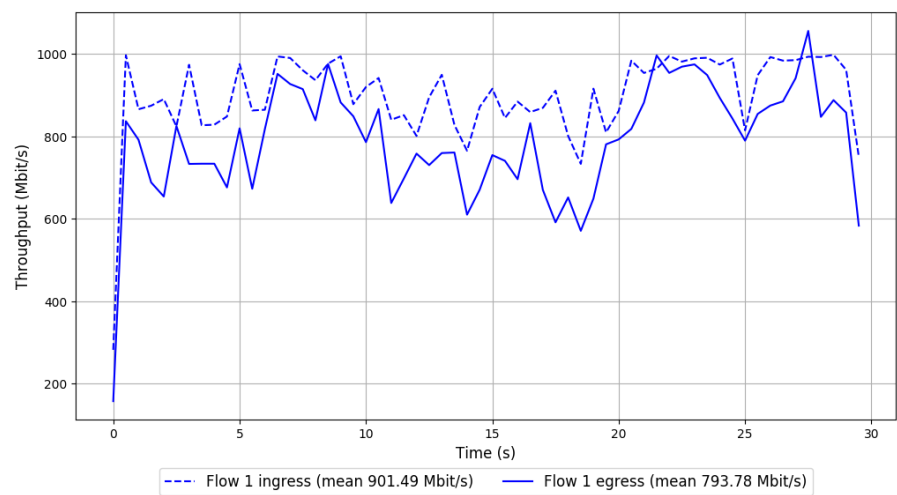
-- Flow 1:

Average throughput: 793.78 Mbit/s

95th percentile per-packet one-way delay: 151.573 ms

Loss rate: 12.25%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-27 16:49:33

End at: 2018-02-27 16:50:03

Below is generated by plot.py at 2018-02-27 21:29:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 731.36 Mbit/s

95th percentile per-packet one-way delay: 158.863 ms

Loss rate: 15.58%

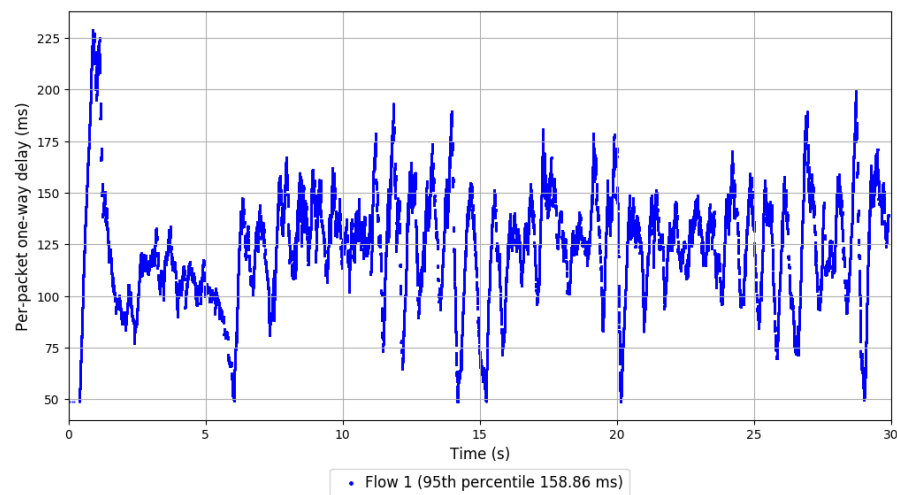
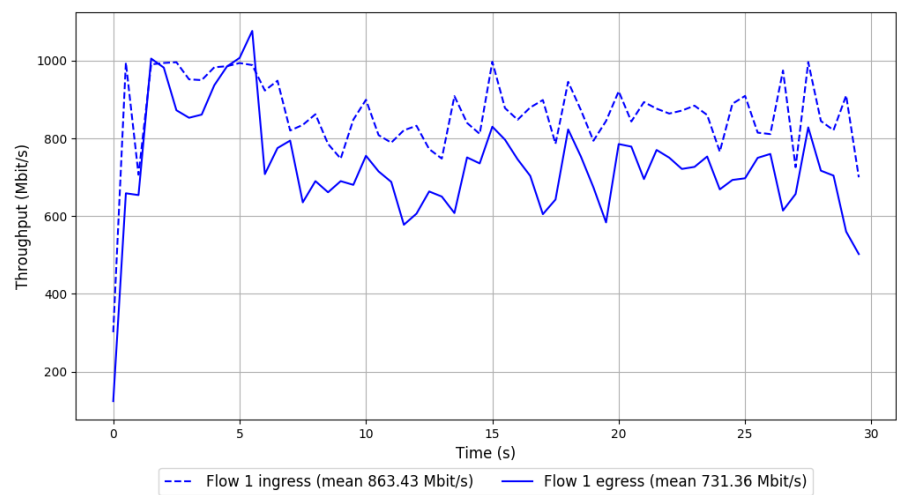
-- Flow 1:

Average throughput: 731.36 Mbit/s

95th percentile per-packet one-way delay: 158.863 ms

Loss rate: 15.58%

Run 10: Report of FillP — Data Link

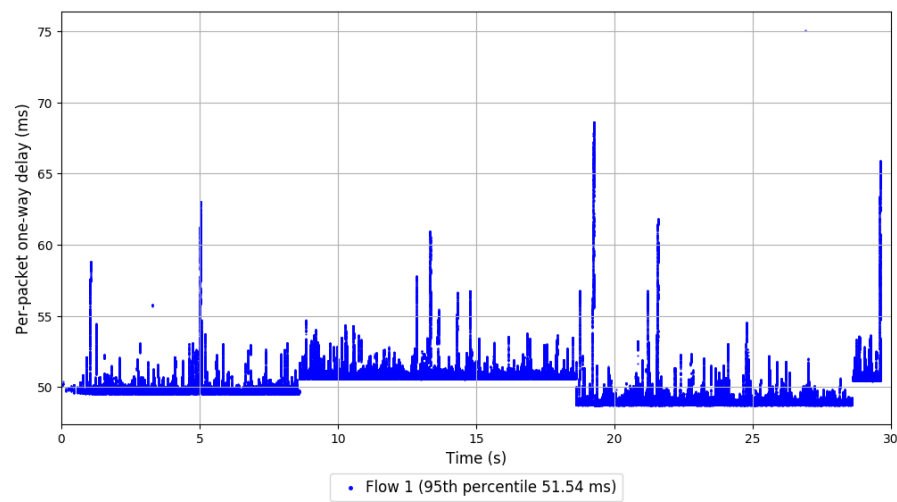
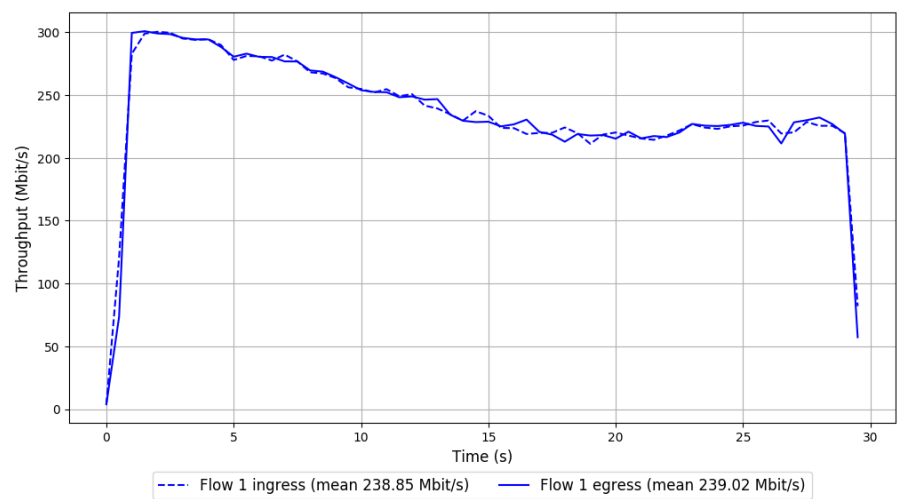


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-27 14:41:03
End at: 2018-02-27 14:41:33

# Below is generated by plot.py at 2018-02-27 21:29:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 239.02 Mbit/s
95th percentile per-packet one-way delay: 51.537 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 239.02 Mbit/s
95th percentile per-packet one-way delay: 51.537 ms
Loss rate: 0.28%
```

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-02-27 14:55:50

End at: 2018-02-27 14:56:20

Below is generated by plot.py at 2018-02-27 21:29:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 242.64 Mbit/s

95th percentile per-packet one-way delay: 51.861 ms

Loss rate: 0.32%

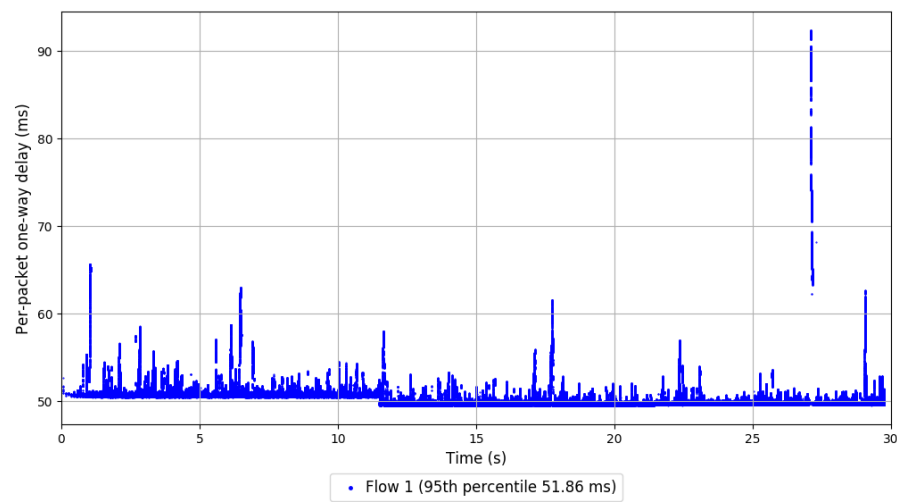
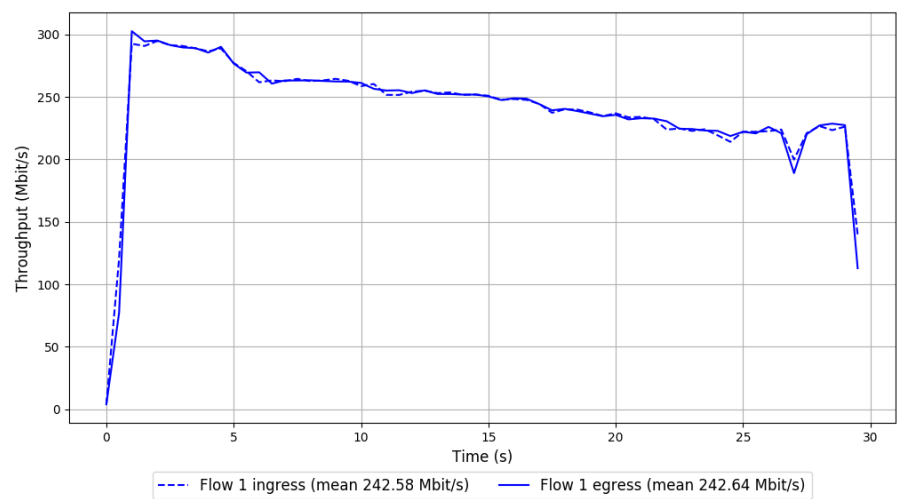
-- Flow 1:

Average throughput: 242.64 Mbit/s

95th percentile per-packet one-way delay: 51.861 ms

Loss rate: 0.32%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-27 15:10:31

End at: 2018-02-27 15:11:01

Below is generated by plot.py at 2018-02-27 21:29:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 230.18 Mbit/s

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

Loss rate: 0.36%

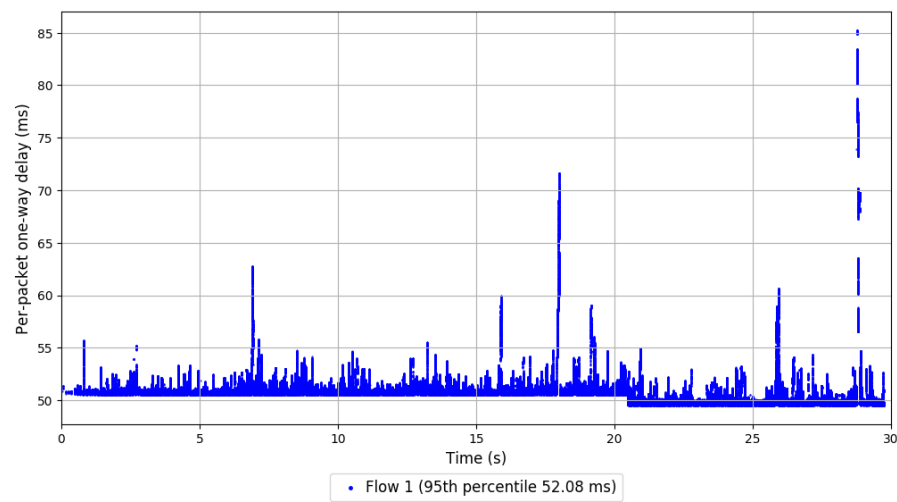
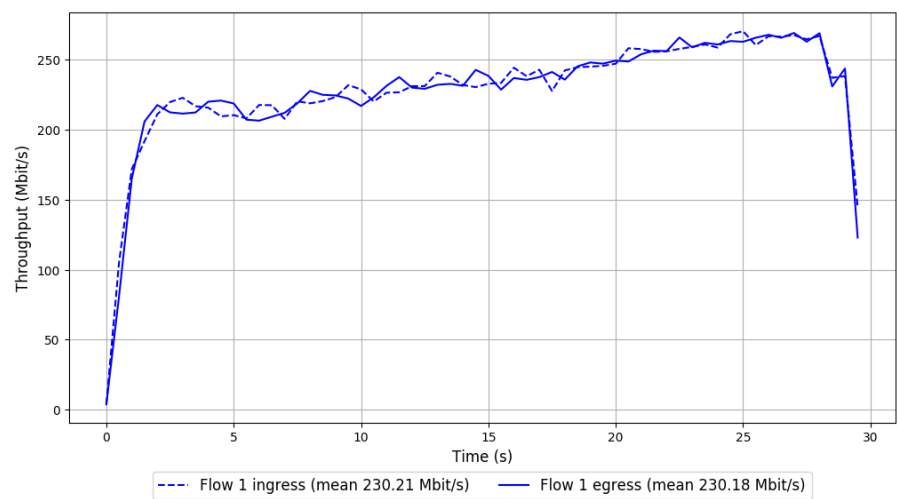
-- Flow 1:

Average throughput: 230.18 Mbit/s

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

Loss rate: 0.36%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-27 15:25:12

End at: 2018-02-27 15:25:42

Below is generated by plot.py at 2018-02-27 21:29:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 236.66 Mbit/s

95th percentile per-packet one-way delay: 51.473 ms

Loss rate: 0.34%

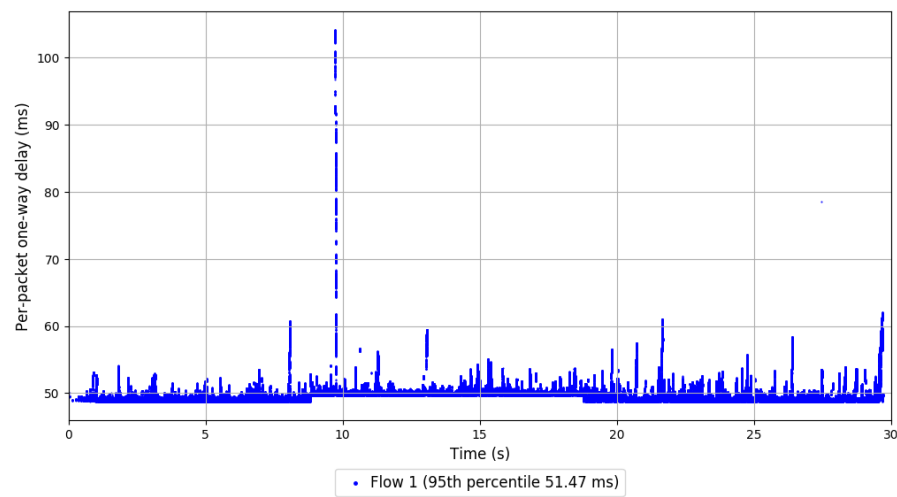
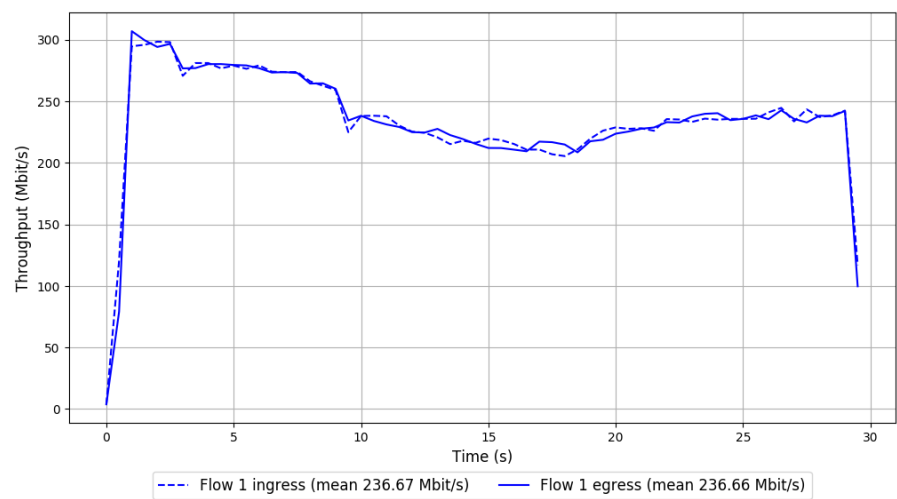
-- Flow 1:

Average throughput: 236.66 Mbit/s

95th percentile per-packet one-way delay: 51.473 ms

Loss rate: 0.34%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-27 15:39:47

End at: 2018-02-27 15:40:17

Below is generated by plot.py at 2018-02-27 21:29:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 235.63 Mbit/s

95th percentile per-packet one-way delay: 52.334 ms

Loss rate: 0.35%

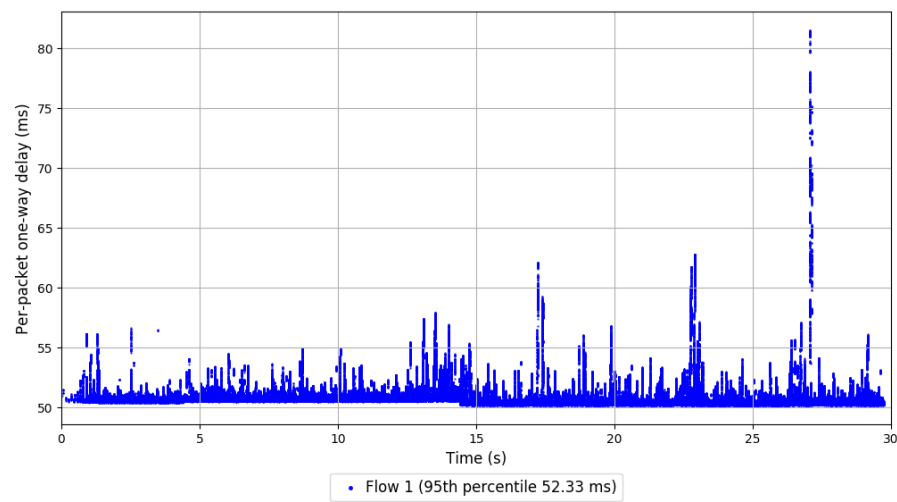
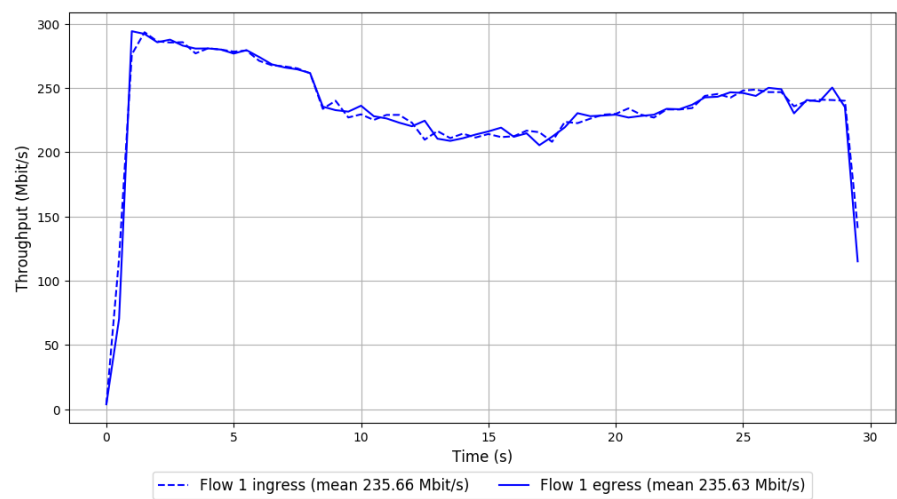
-- Flow 1:

Average throughput: 235.63 Mbit/s

95th percentile per-packet one-way delay: 52.334 ms

Loss rate: 0.35%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-27 15:54:30

End at: 2018-02-27 15:55:00

Below is generated by plot.py at 2018-02-27 21:29:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 230.13 Mbit/s

95th percentile per-packet one-way delay: 50.753 ms

Loss rate: 0.34%

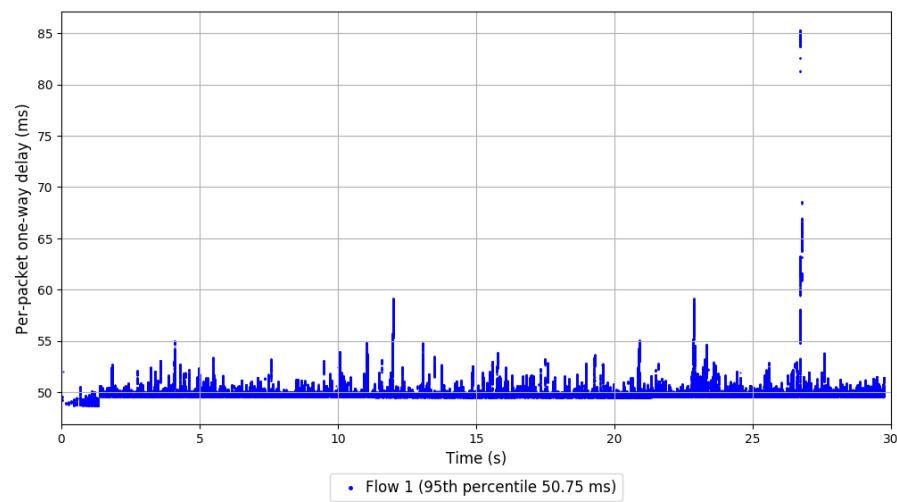
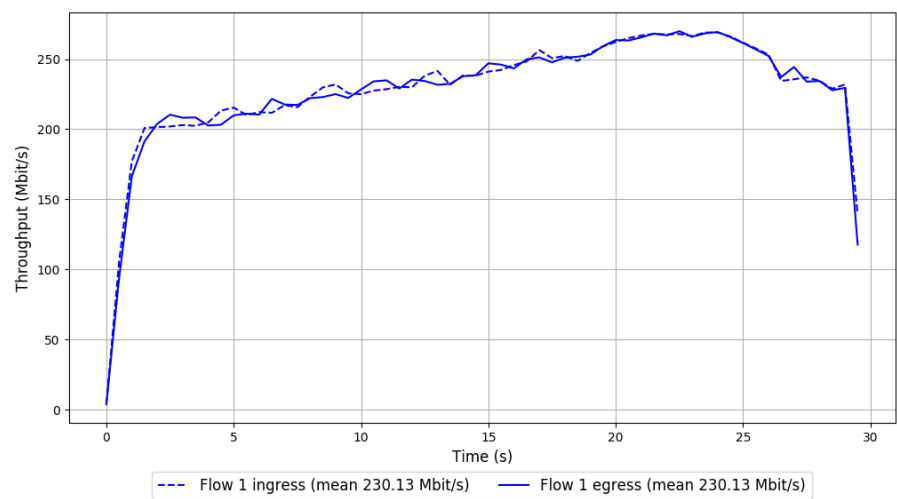
-- Flow 1:

Average throughput: 230.13 Mbit/s

95th percentile per-packet one-way delay: 50.753 ms

Loss rate: 0.34%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-27 16:09:12

End at: 2018-02-27 16:09:42

Below is generated by plot.py at 2018-02-27 21:29:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.69 Mbit/s

95th percentile per-packet one-way delay: 51.796 ms

Loss rate: 0.40%

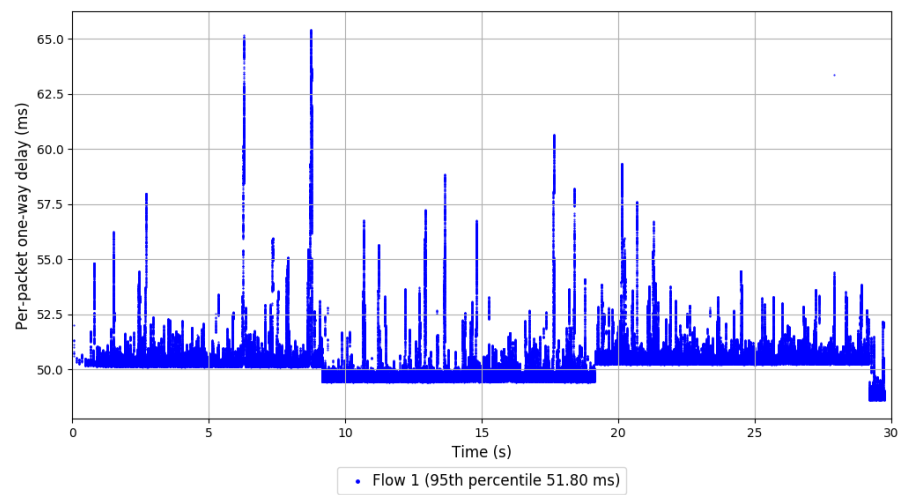
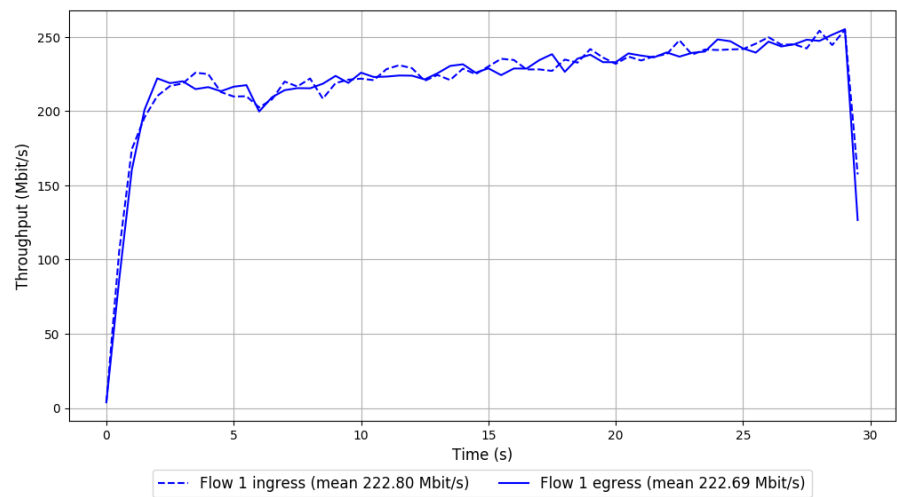
-- Flow 1:

Average throughput: 222.69 Mbit/s

95th percentile per-packet one-way delay: 51.796 ms

Loss rate: 0.40%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-27 16:23:50

End at: 2018-02-27 16:24:20

Below is generated by plot.py at 2018-02-27 21:29:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 232.60 Mbit/s

95th percentile per-packet one-way delay: 52.300 ms

Loss rate: 0.35%

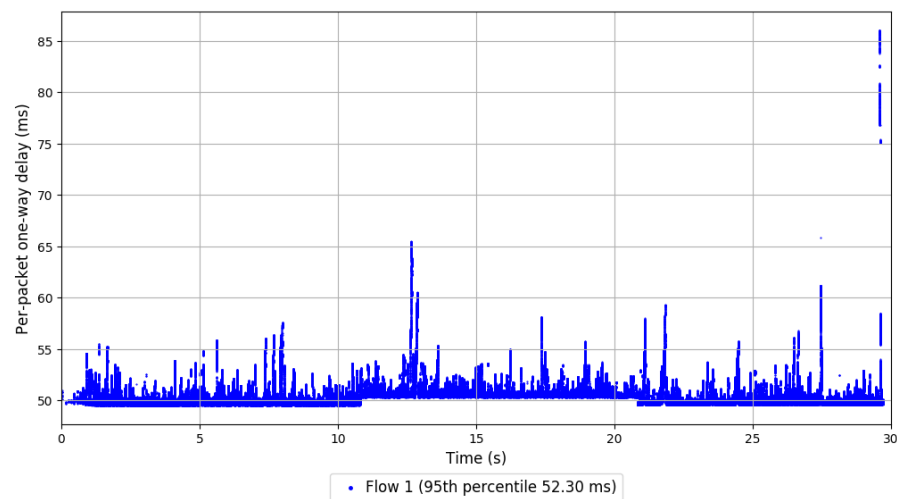
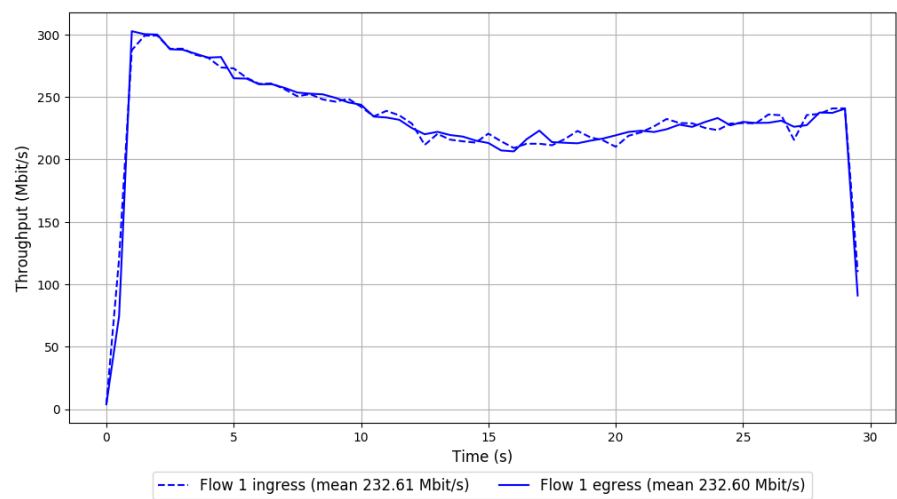
-- Flow 1:

Average throughput: 232.60 Mbit/s

95th percentile per-packet one-way delay: 52.300 ms

Loss rate: 0.35%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-27 16:38:35

End at: 2018-02-27 16:39:05

Below is generated by plot.py at 2018-02-27 21:29:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.14 Mbit/s

95th percentile per-packet one-way delay: 53.249 ms

Loss rate: 0.40%

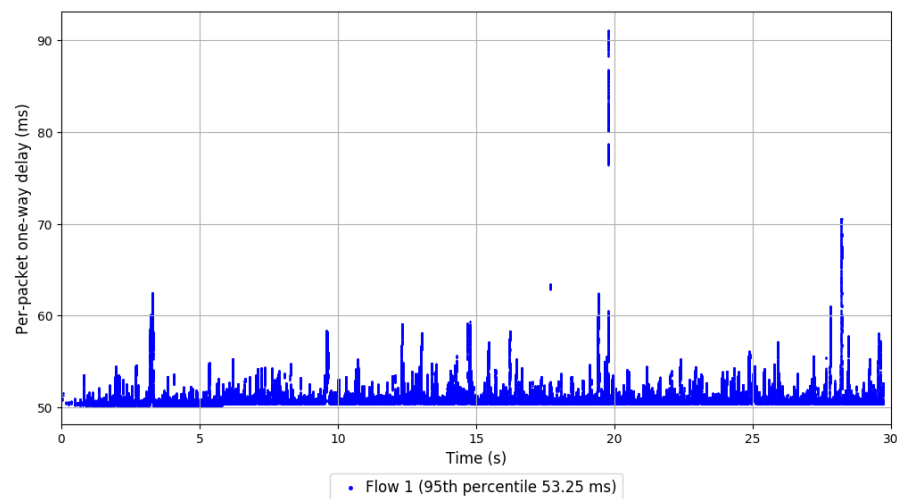
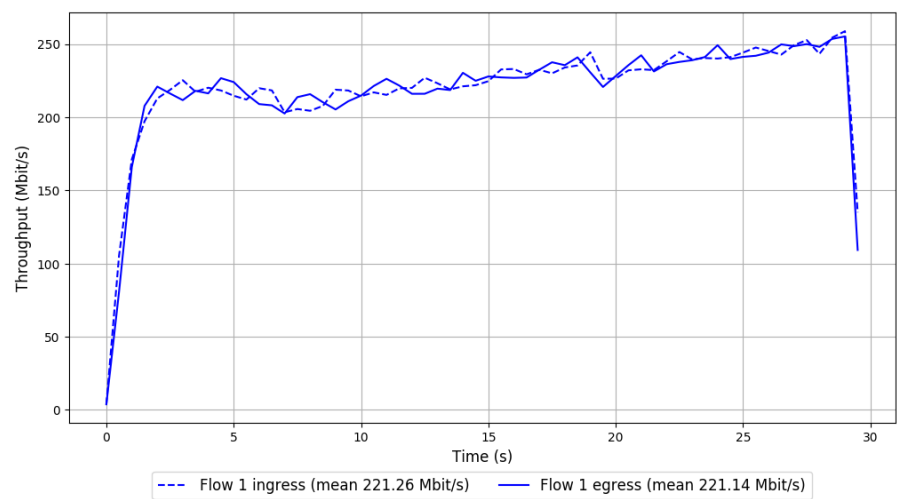
-- Flow 1:

Average throughput: 221.14 Mbit/s

95th percentile per-packet one-way delay: 53.249 ms

Loss rate: 0.40%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-27 16:53:17

End at: 2018-02-27 16:53:47

Below is generated by plot.py at 2018-02-27 21:29:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.88 Mbit/s

95th percentile per-packet one-way delay: 52.535 ms

Loss rate: 0.41%

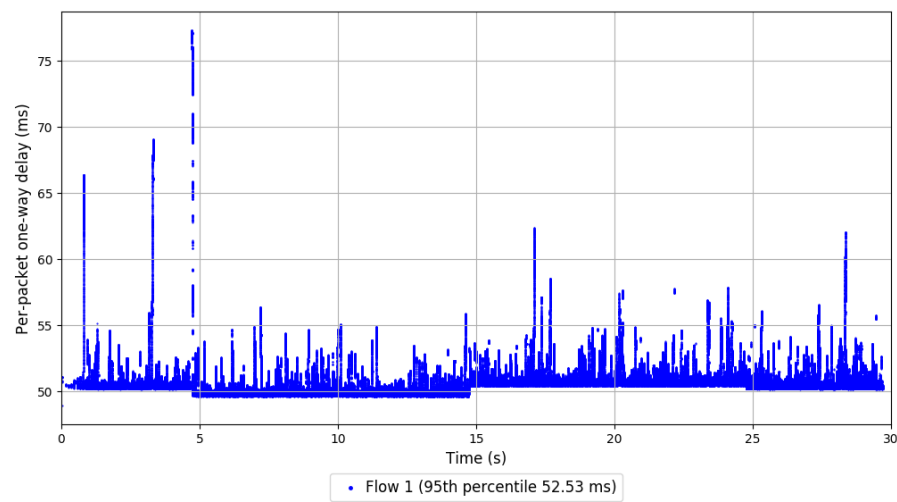
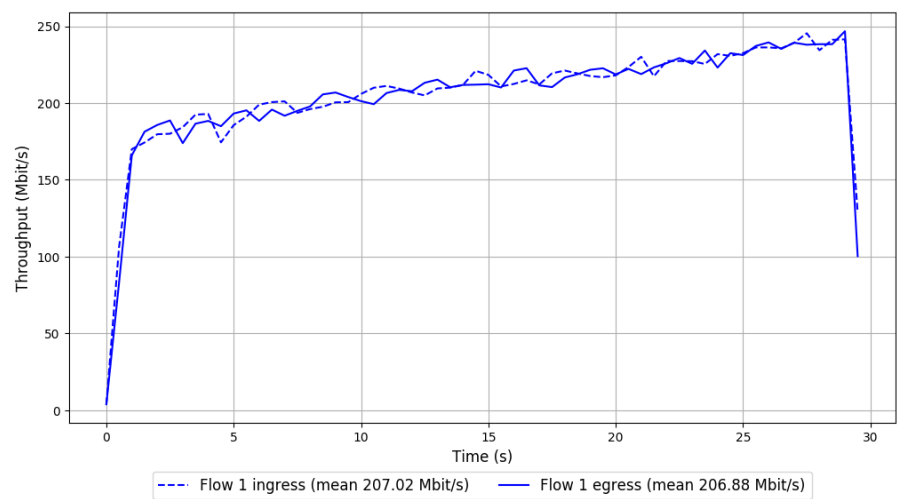
-- Flow 1:

Average throughput: 206.88 Mbit/s

95th percentile per-packet one-way delay: 52.535 ms

Loss rate: 0.41%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-02-27 14:33:23

End at: 2018-02-27 14:33:53

Below is generated by plot.py at 2018-02-27 21:29:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 283.37 Mbit/s

95th percentile per-packet one-way delay: 55.668 ms

Loss rate: 0.35%

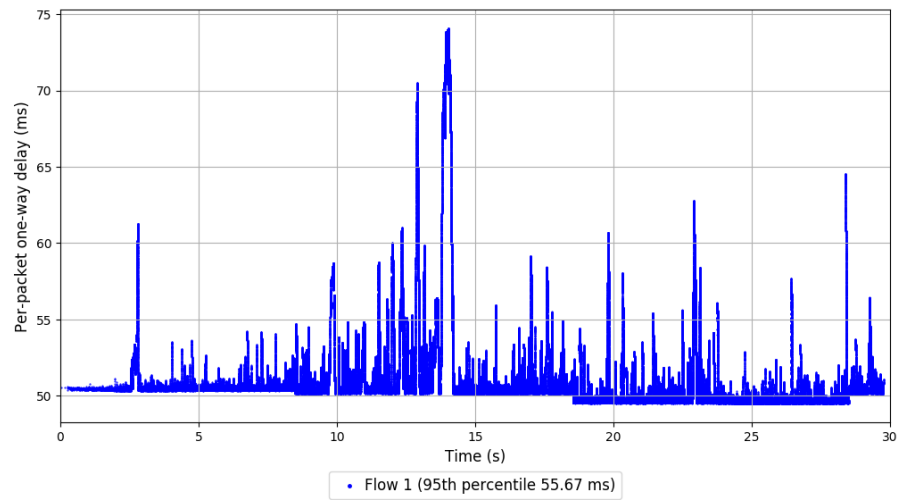
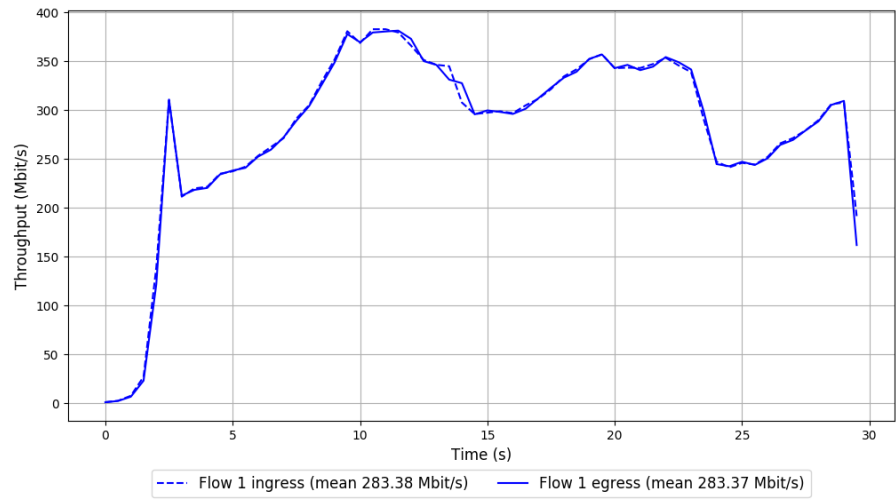
-- Flow 1:

Average throughput: 283.37 Mbit/s

95th percentile per-packet one-way delay: 55.668 ms

Loss rate: 0.35%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-27 14:48:03

End at: 2018-02-27 14:48:33

Below is generated by plot.py at 2018-02-27 21:29:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 268.99 Mbit/s

95th percentile per-packet one-way delay: 54.894 ms

Loss rate: 0.38%

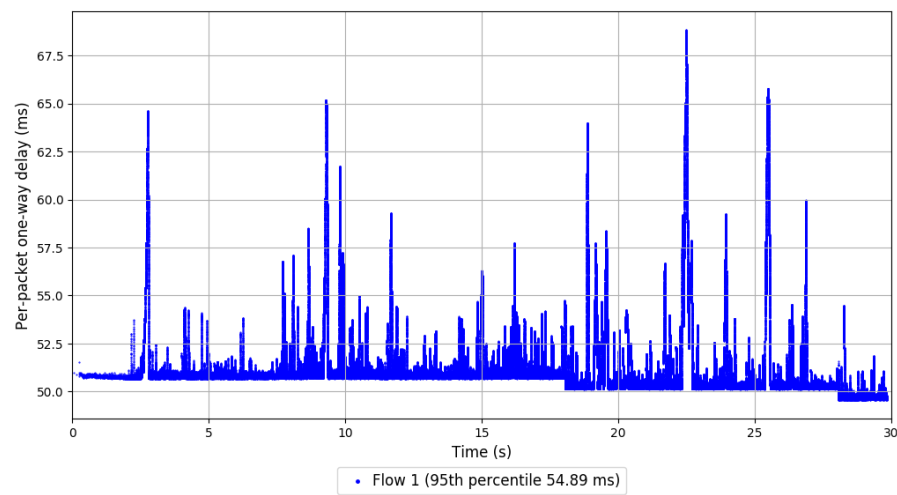
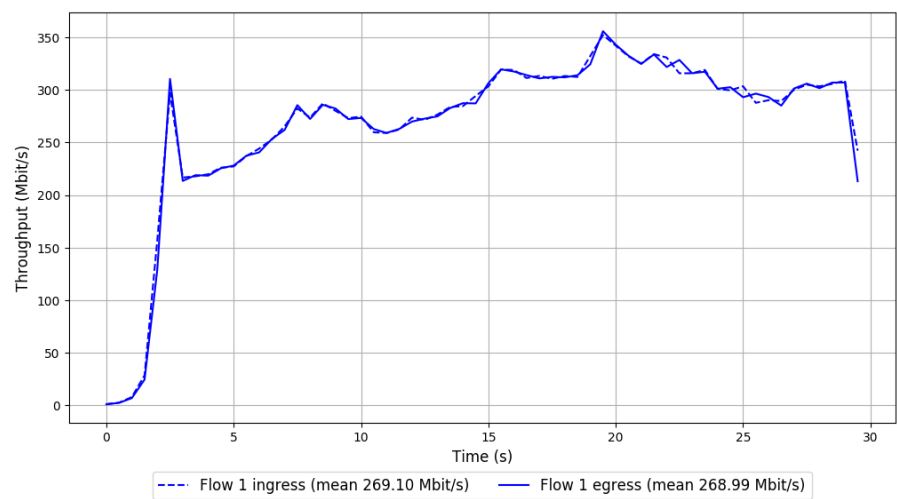
-- Flow 1:

Average throughput: 268.99 Mbit/s

95th percentile per-packet one-way delay: 54.894 ms

Loss rate: 0.38%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-27 15:02:39

End at: 2018-02-27 15:03:09

Below is generated by plot.py at 2018-02-27 21:29:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 267.11 Mbit/s

95th percentile per-packet one-way delay: 86.865 ms

Loss rate: 1.06%

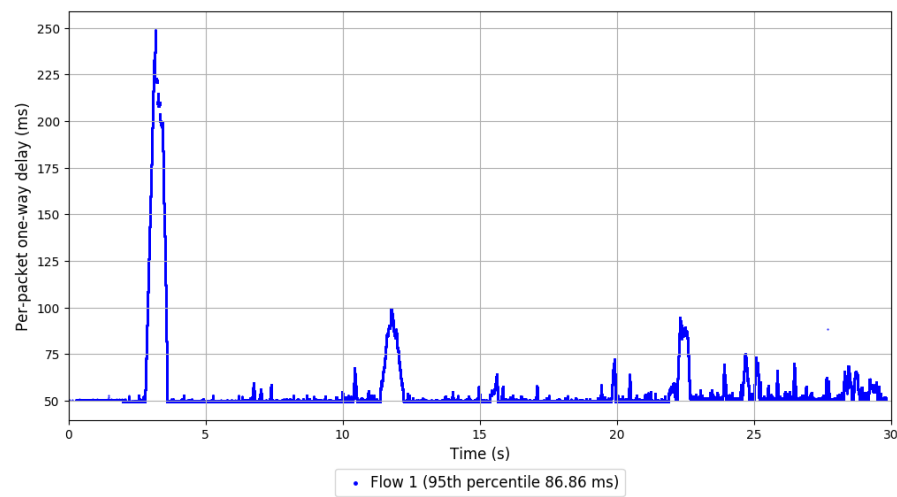
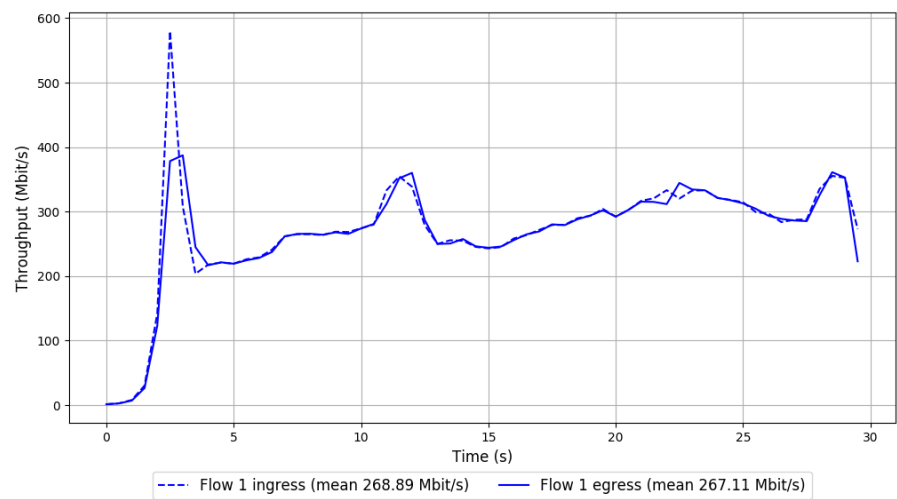
-- Flow 1:

Average throughput: 267.11 Mbit/s

95th percentile per-packet one-way delay: 86.865 ms

Loss rate: 1.06%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-27 15:17:24

End at: 2018-02-27 15:17:54

Below is generated by plot.py at 2018-02-27 21:29:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 295.07 Mbit/s

95th percentile per-packet one-way delay: 72.928 ms

Loss rate: 1.22%

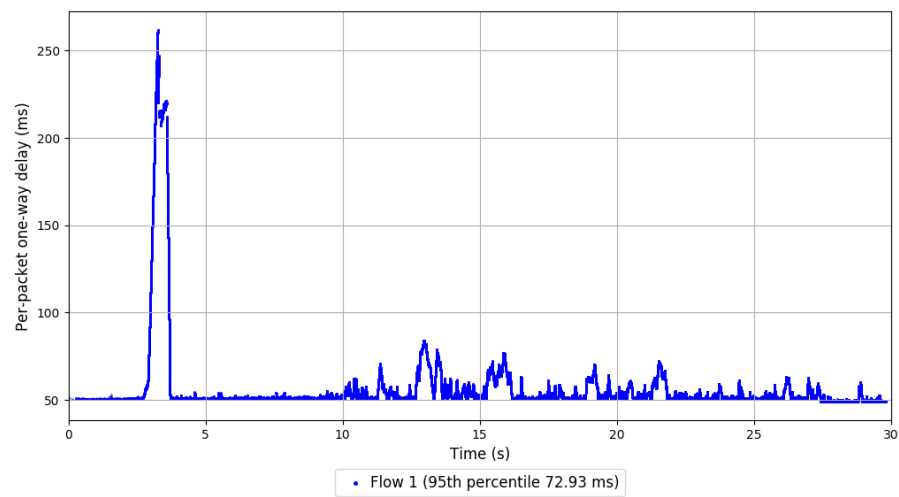
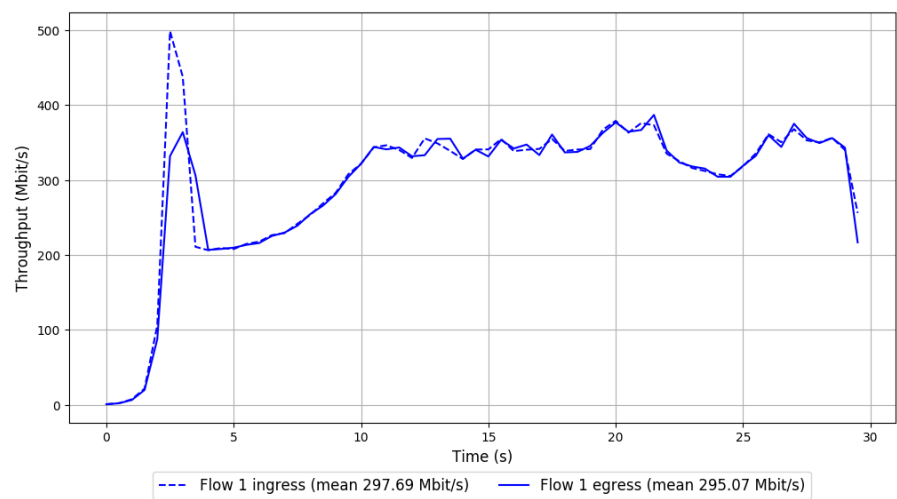
-- Flow 1:

Average throughput: 295.07 Mbit/s

95th percentile per-packet one-way delay: 72.928 ms

Loss rate: 1.22%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-27 15:32:08

End at: 2018-02-27 15:32:38

Below is generated by plot.py at 2018-02-27 21:29:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 242.84 Mbit/s

95th percentile per-packet one-way delay: 77.485 ms

Loss rate: 0.95%

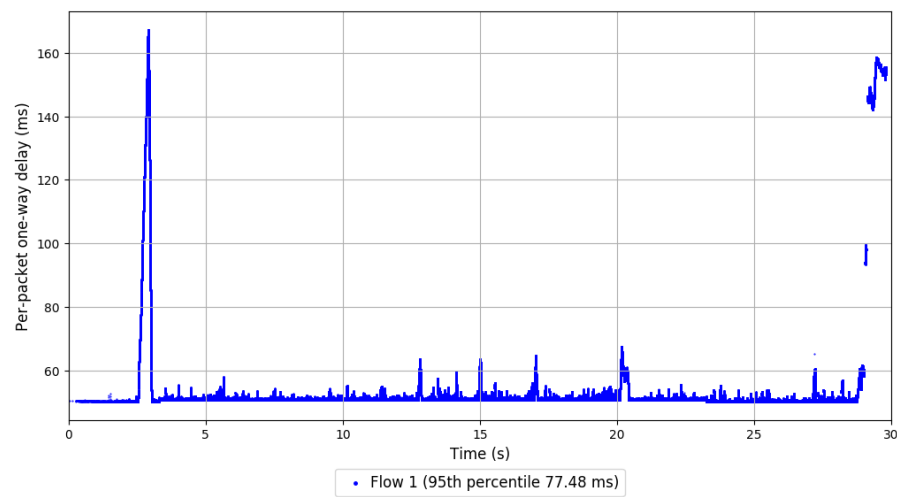
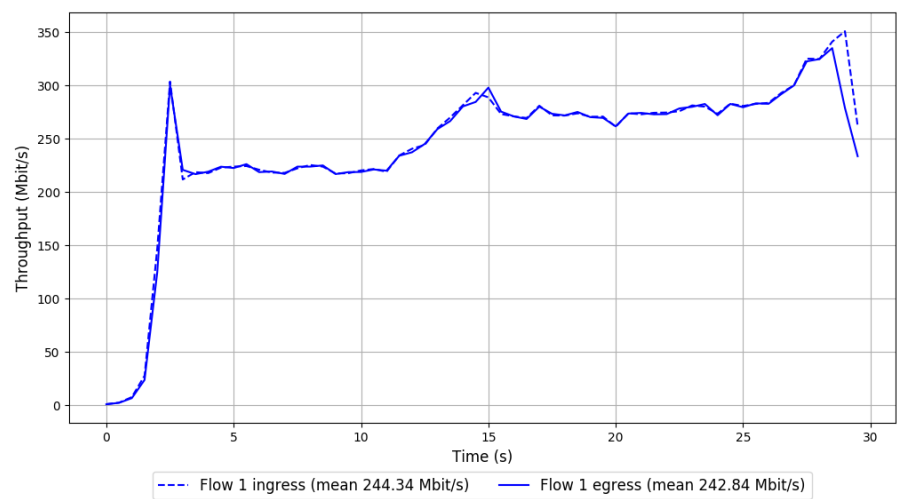
-- Flow 1:

Average throughput: 242.84 Mbit/s

95th percentile per-packet one-way delay: 77.485 ms

Loss rate: 0.95%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-27 15:46:46

End at: 2018-02-27 15:47:16

Below is generated by plot.py at 2018-02-27 21:29:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 269.37 Mbit/s

95th percentile per-packet one-way delay: 144.695 ms

Loss rate: 0.31%

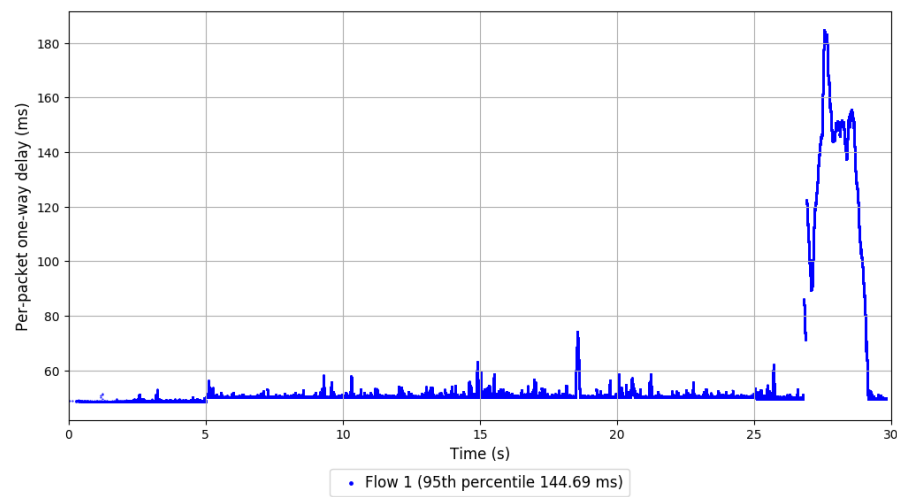
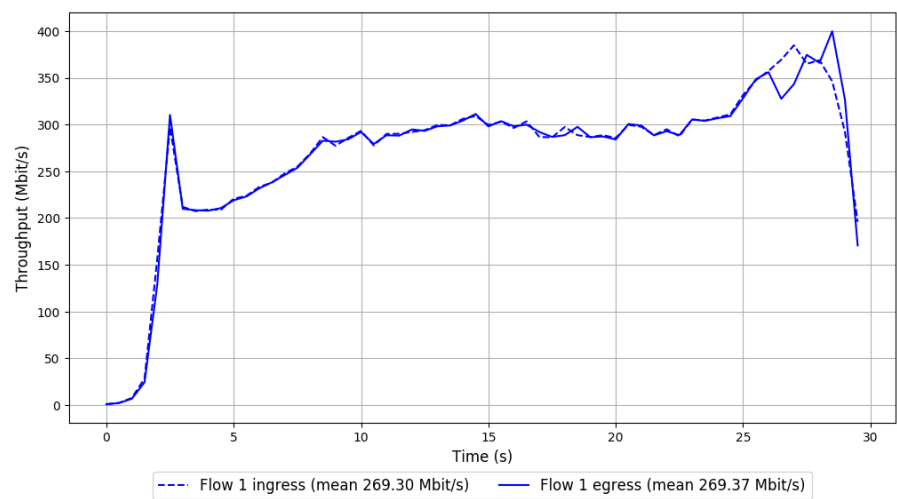
-- Flow 1:

Average throughput: 269.37 Mbit/s

95th percentile per-packet one-way delay: 144.695 ms

Loss rate: 0.31%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-27 16:01:29

End at: 2018-02-27 16:01:59

Below is generated by plot.py at 2018-02-27 21:30:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 241.20 Mbit/s

95th percentile per-packet one-way delay: 55.443 ms

Loss rate: 0.35%

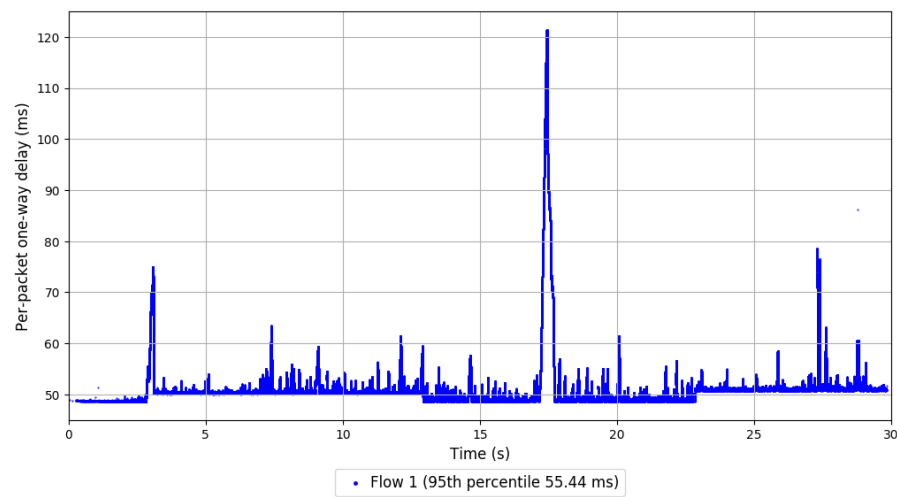
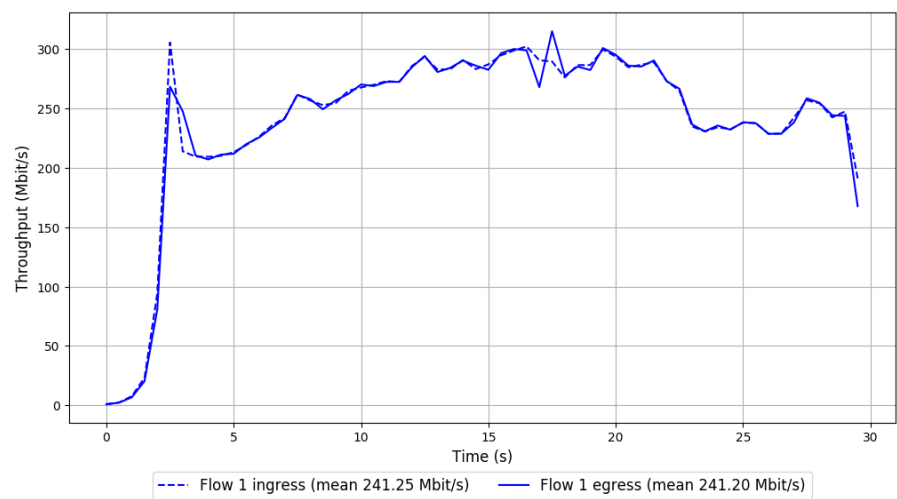
-- Flow 1:

Average throughput: 241.20 Mbit/s

95th percentile per-packet one-way delay: 55.443 ms

Loss rate: 0.35%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-27 16:16:05

End at: 2018-02-27 16:16:35

Below is generated by plot.py at 2018-02-27 21:30:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.11 Mbit/s

95th percentile per-packet one-way delay: 145.162 ms

Loss rate: 0.32%

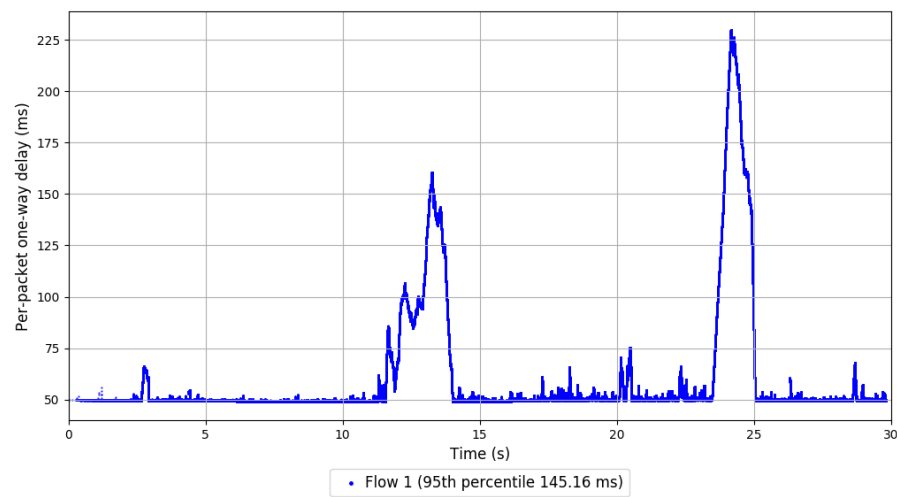
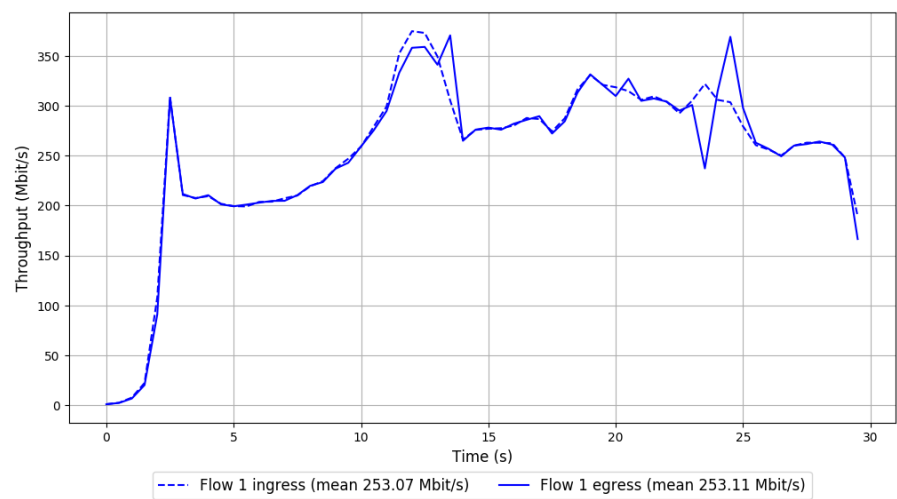
-- Flow 1:

Average throughput: 253.11 Mbit/s

95th percentile per-packet one-way delay: 145.162 ms

Loss rate: 0.32%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-27 16:30:53

End at: 2018-02-27 16:31:23

Below is generated by plot.py at 2018-02-27 21:32:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 235.48 Mbit/s

95th percentile per-packet one-way delay: 122.267 ms

Loss rate: 1.26%

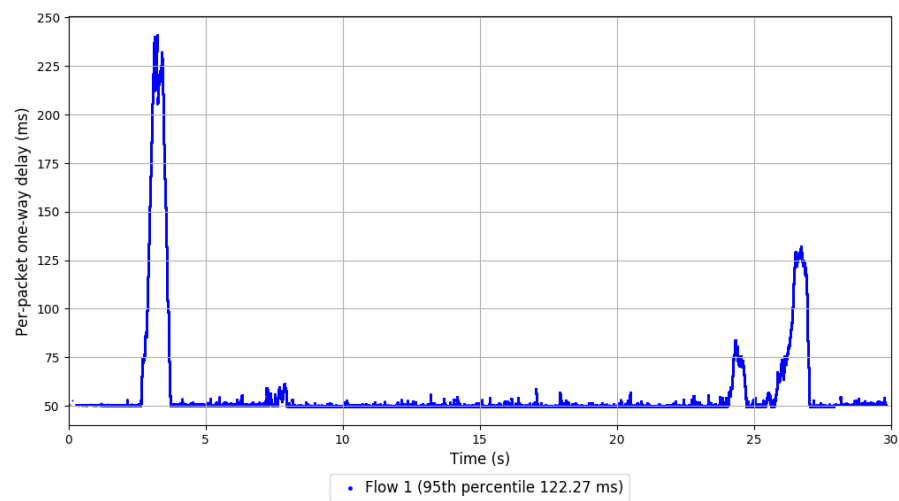
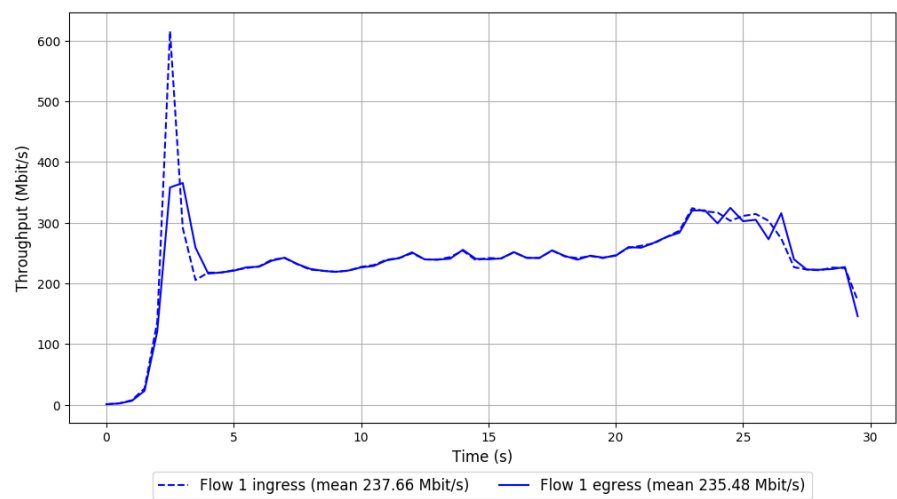
-- Flow 1:

Average throughput: 235.48 Mbit/s

95th percentile per-packet one-way delay: 122.267 ms

Loss rate: 1.26%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-27 16:45:35

End at: 2018-02-27 16:46:05

Below is generated by plot.py at 2018-02-27 21:33:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 239.63 Mbit/s

95th percentile per-packet one-way delay: 71.029 ms

Loss rate: 0.32%

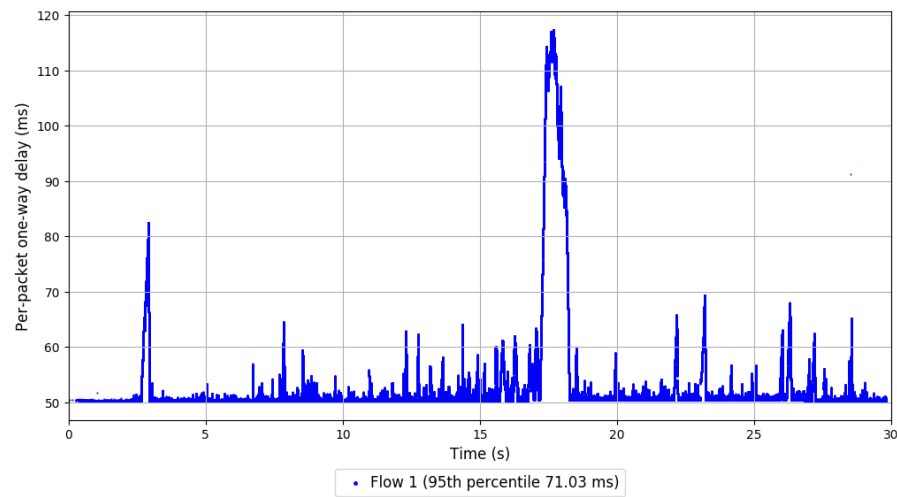
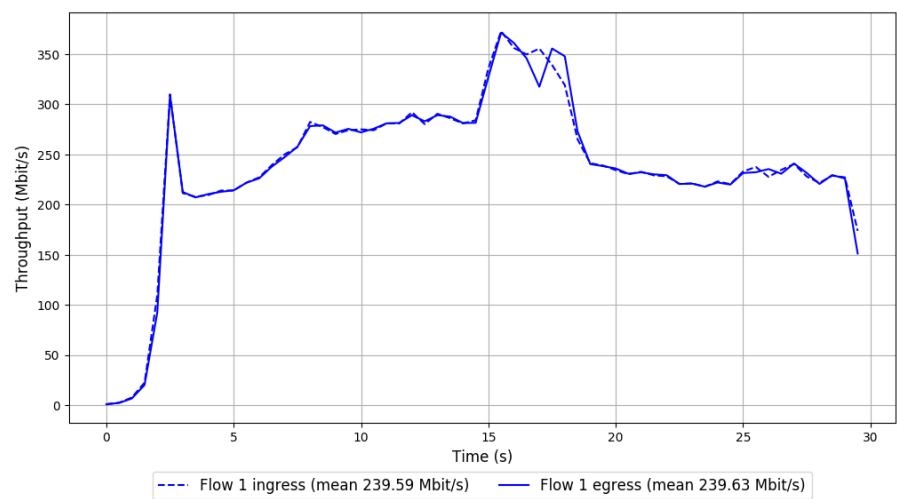
-- Flow 1:

Average throughput: 239.63 Mbit/s

95th percentile per-packet one-way delay: 71.029 ms

Loss rate: 0.32%

Run 10: Report of Vivace-latency — Data Link

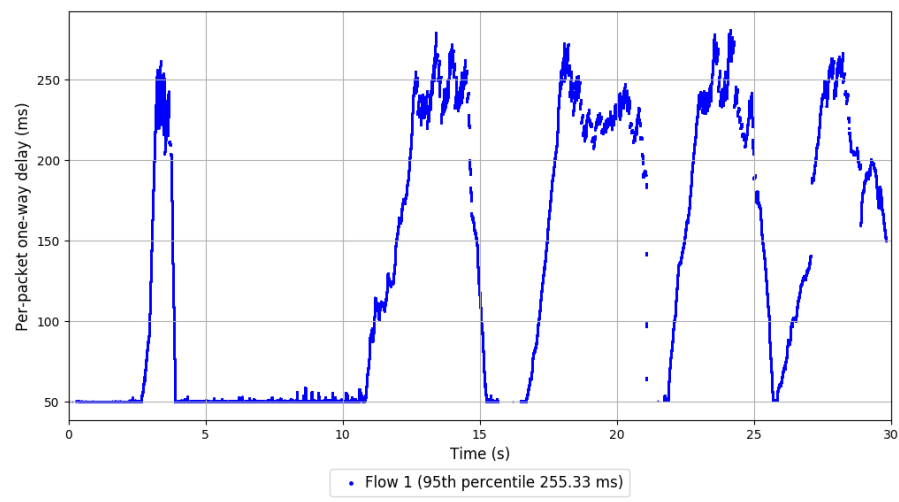
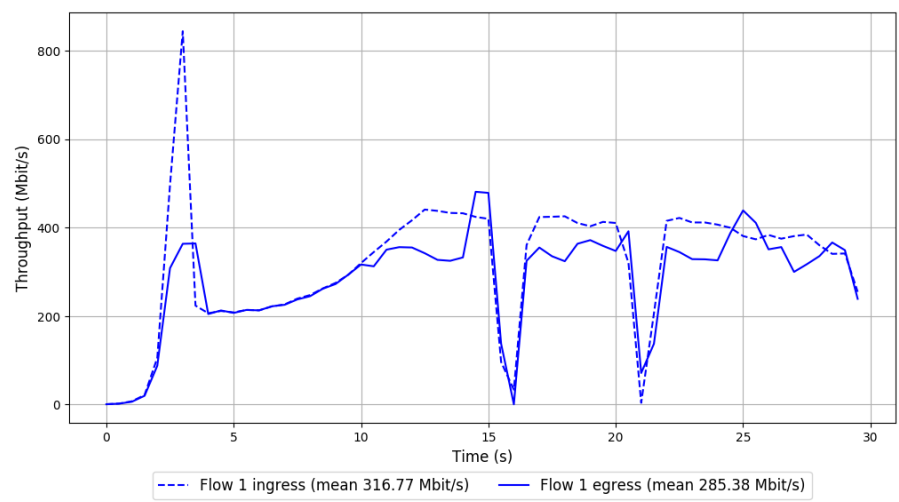


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-27 14:35:33
End at: 2018-02-27 14:36:03

# Below is generated by plot.py at 2018-02-27 21:37:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 285.38 Mbit/s
95th percentile per-packet one-way delay: 255.327 ms
Loss rate: 10.22%
-- Flow 1:
Average throughput: 285.38 Mbit/s
95th percentile per-packet one-way delay: 255.327 ms
Loss rate: 10.22%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-27 14:50:15

End at: 2018-02-27 14:50:45

Below is generated by plot.py at 2018-02-27 21:38:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 323.87 Mbit/s

95th percentile per-packet one-way delay: 214.600 ms

Loss rate: 6.84%

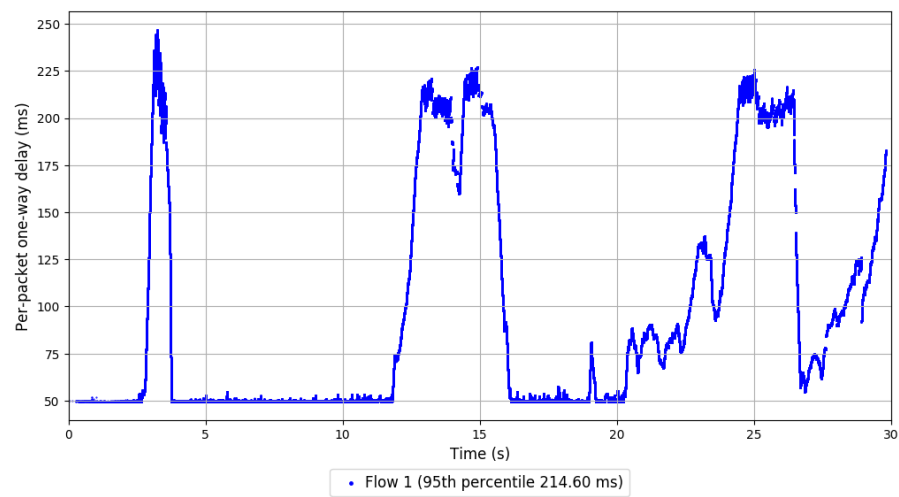
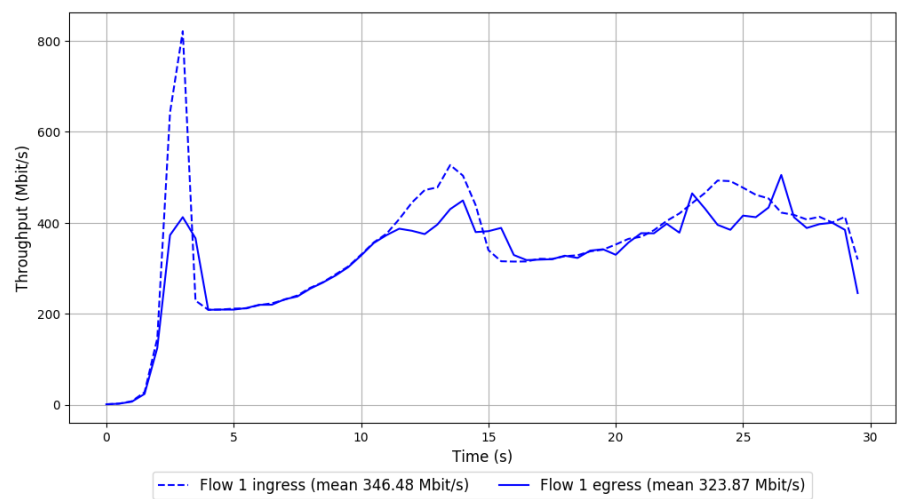
-- Flow 1:

Average throughput: 323.87 Mbit/s

95th percentile per-packet one-way delay: 214.600 ms

Loss rate: 6.84%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-27 15:04:53

End at: 2018-02-27 15:05:23

Below is generated by plot.py at 2018-02-27 21:38:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 326.75 Mbit/s

95th percentile per-packet one-way delay: 207.346 ms

Loss rate: 7.36%

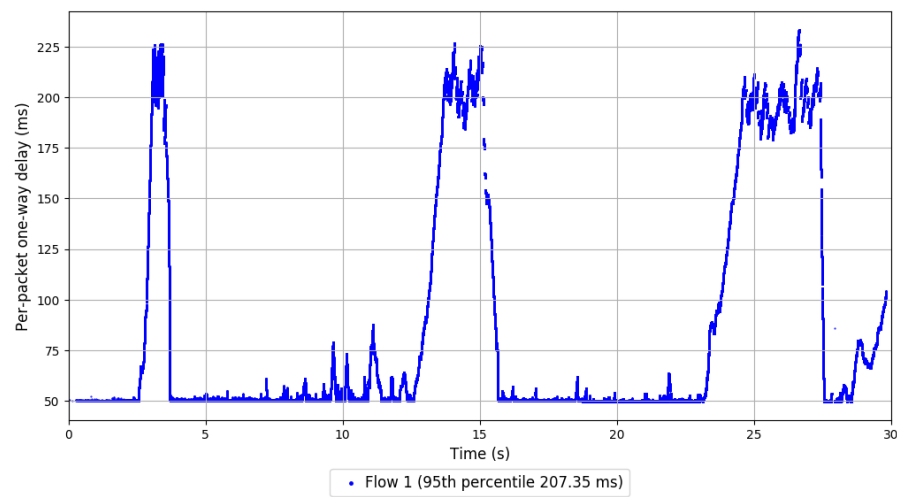
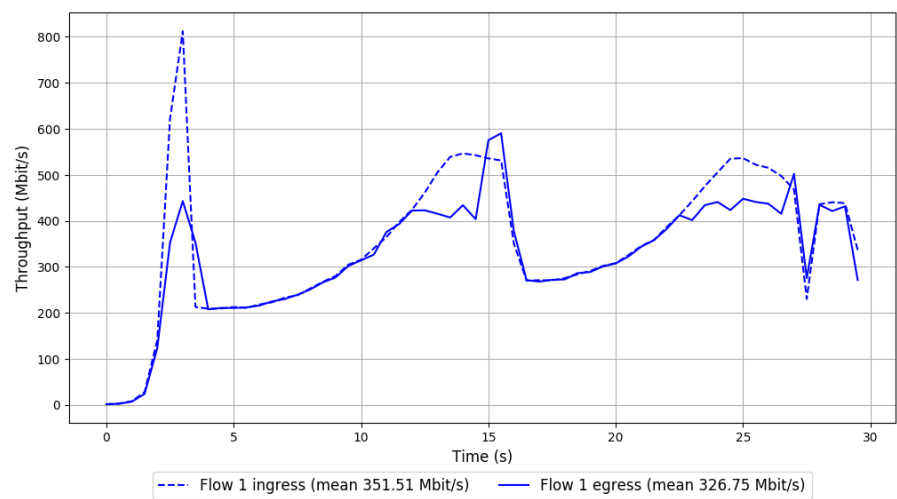
-- Flow 1:

Average throughput: 326.75 Mbit/s

95th percentile per-packet one-way delay: 207.346 ms

Loss rate: 7.36%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-27 15:19:38

End at: 2018-02-27 15:20:08

Below is generated by plot.py at 2018-02-27 21:38:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 260.41 Mbit/s

95th percentile per-packet one-way delay: 241.601 ms

Loss rate: 13.88%

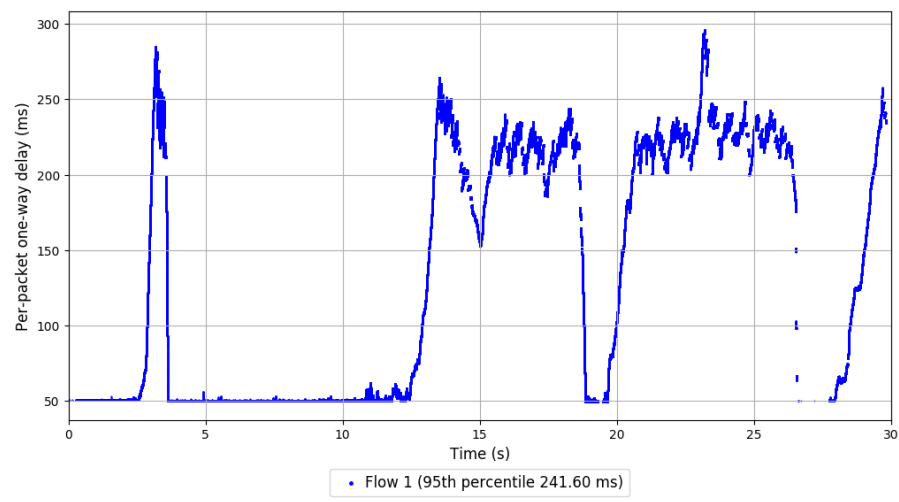
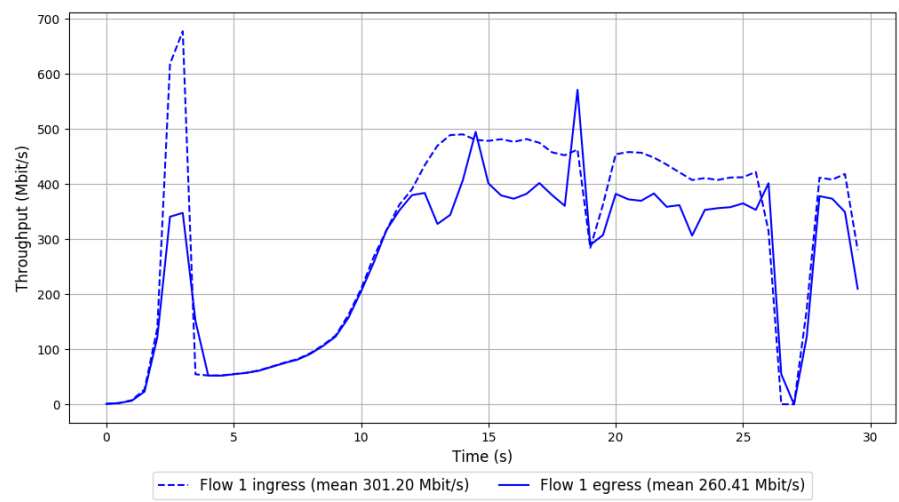
-- Flow 1:

Average throughput: 260.41 Mbit/s

95th percentile per-packet one-way delay: 241.601 ms

Loss rate: 13.88%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-27 15:34:18

End at: 2018-02-27 15:34:48

Below is generated by plot.py at 2018-02-27 21:38:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 290.83 Mbit/s

95th percentile per-packet one-way delay: 230.791 ms

Loss rate: 8.27%

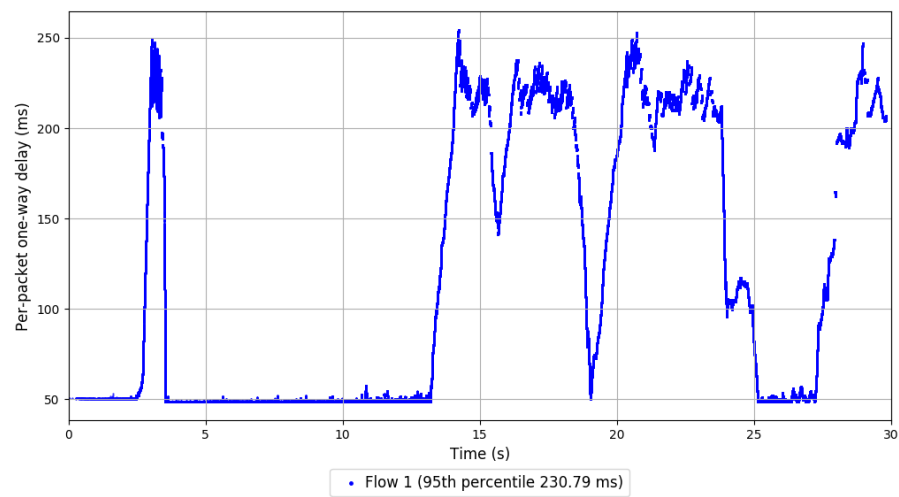
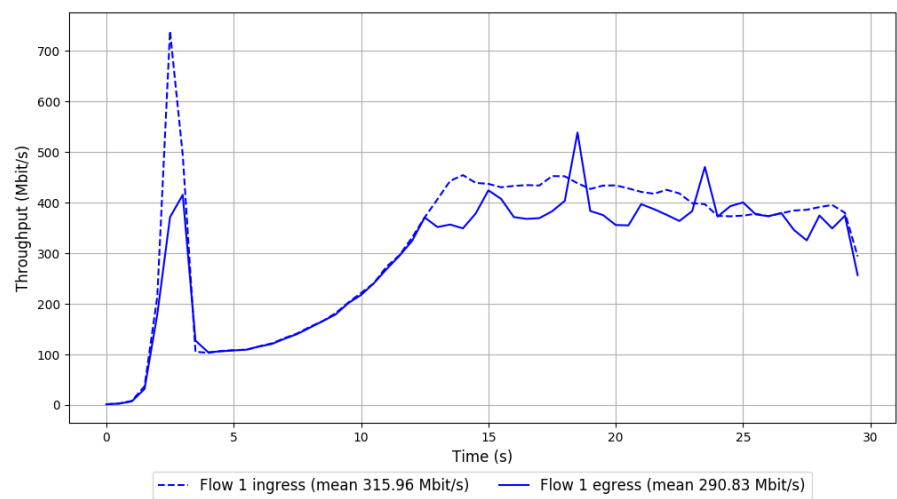
-- Flow 1:

Average throughput: 290.83 Mbit/s

95th percentile per-packet one-way delay: 230.791 ms

Loss rate: 8.27%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-27 15:48:58

End at: 2018-02-27 15:49:28

Below is generated by plot.py at 2018-02-27 21:39:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 294.85 Mbit/s

95th percentile per-packet one-way delay: 234.682 ms

Loss rate: 10.10%

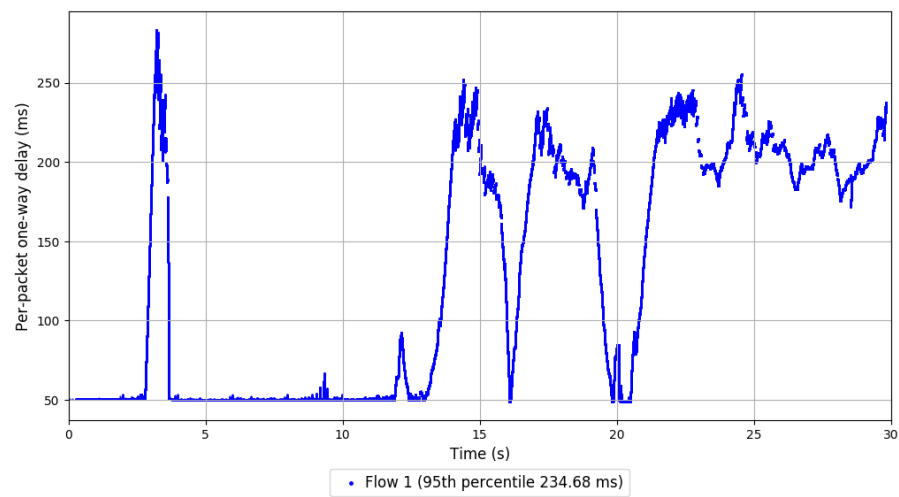
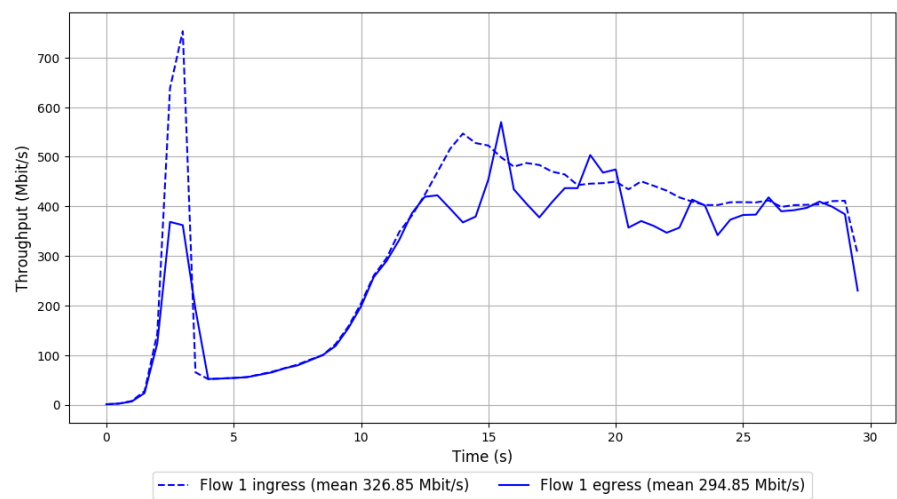
-- Flow 1:

Average throughput: 294.85 Mbit/s

95th percentile per-packet one-way delay: 234.682 ms

Loss rate: 10.10%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-27 16:03:39

End at: 2018-02-27 16:04:09

Below is generated by plot.py at 2018-02-27 21:42:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 296.12 Mbit/s

95th percentile per-packet one-way delay: 226.251 ms

Loss rate: 9.12%

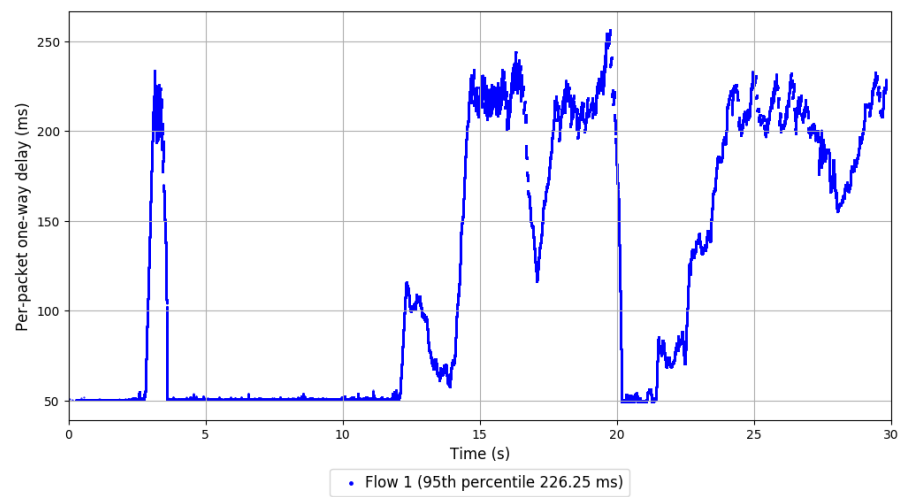
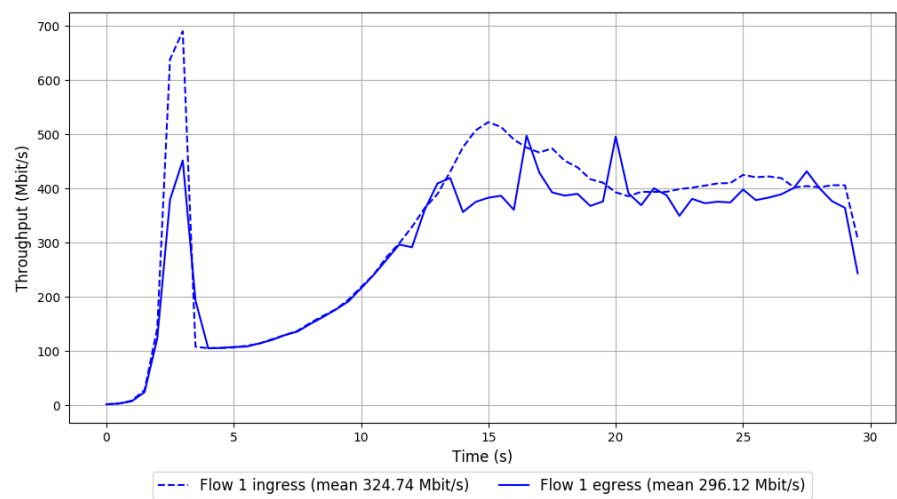
-- Flow 1:

Average throughput: 296.12 Mbit/s

95th percentile per-packet one-way delay: 226.251 ms

Loss rate: 9.12%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-27 16:18:17

End at: 2018-02-27 16:18:47

Below is generated by plot.py at 2018-02-27 21:42:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 254.22 Mbit/s

95th percentile per-packet one-way delay: 240.003 ms

Loss rate: 5.54%

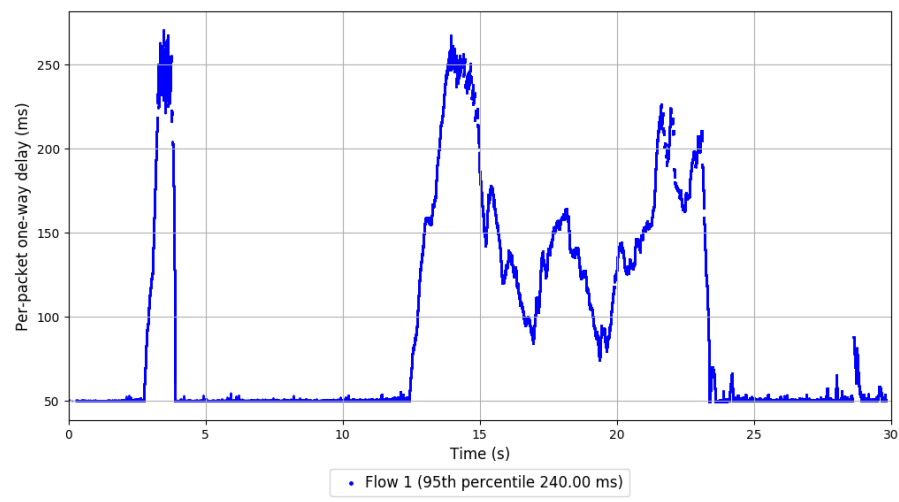
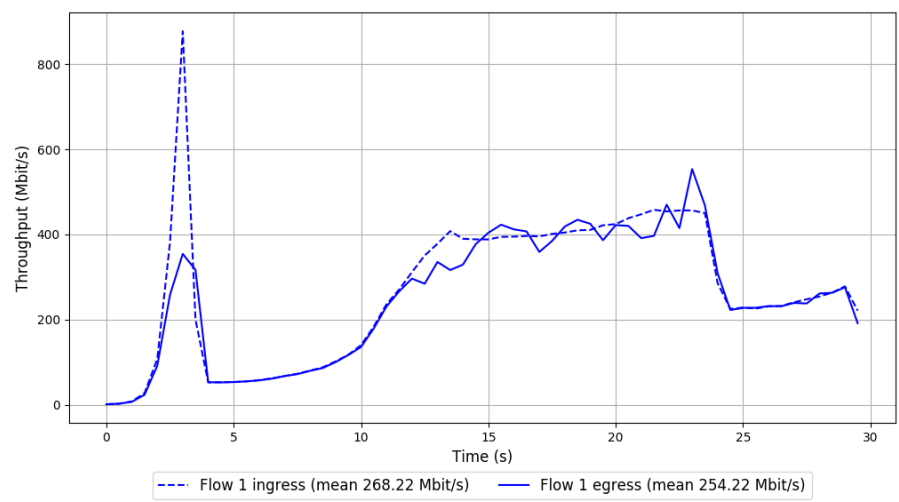
-- Flow 1:

Average throughput: 254.22 Mbit/s

95th percentile per-packet one-way delay: 240.003 ms

Loss rate: 5.54%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-27 16:33:05

End at: 2018-02-27 16:33:35

Below is generated by plot.py at 2018-02-27 21:43:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 234.88 Mbit/s

95th percentile per-packet one-way delay: 272.390 ms

Loss rate: 10.56%

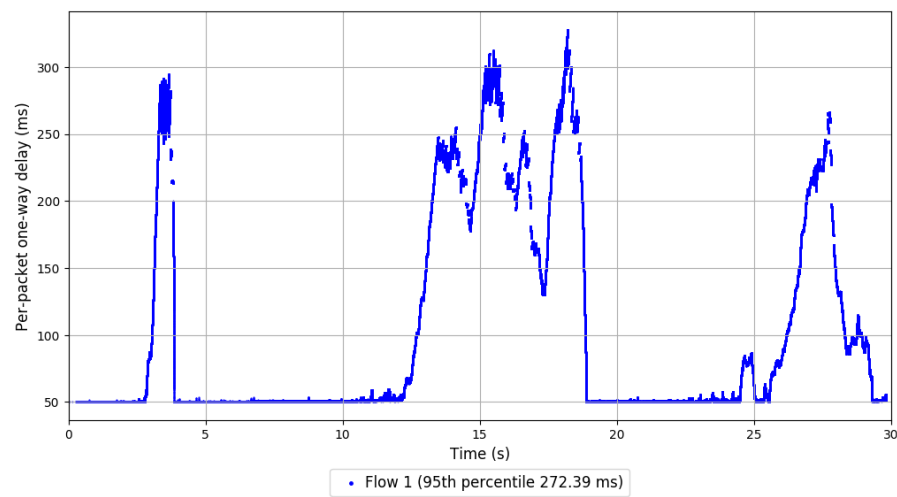
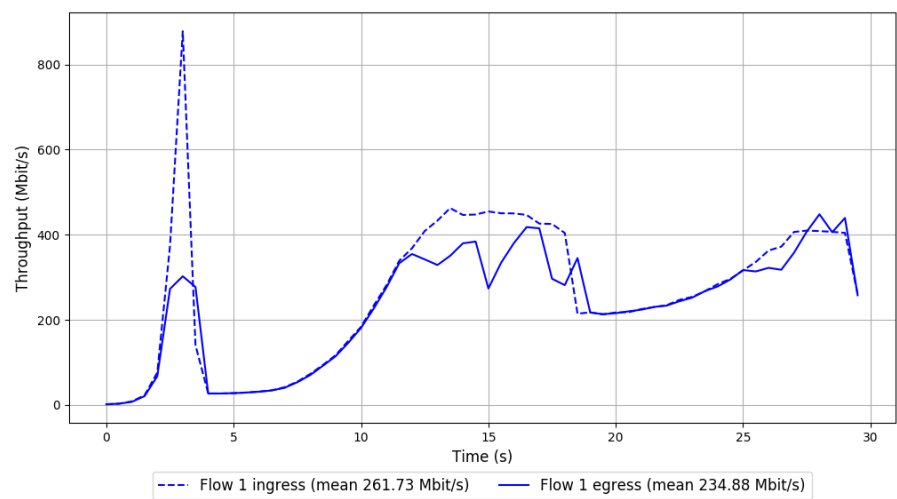
-- Flow 1:

Average throughput: 234.88 Mbit/s

95th percentile per-packet one-way delay: 272.390 ms

Loss rate: 10.56%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-27 16:47:47

End at: 2018-02-27 16:48:17

Below is generated by plot.py at 2018-02-27 21:45:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 270.71 Mbit/s

95th percentile per-packet one-way delay: 233.439 ms

Loss rate: 7.20%

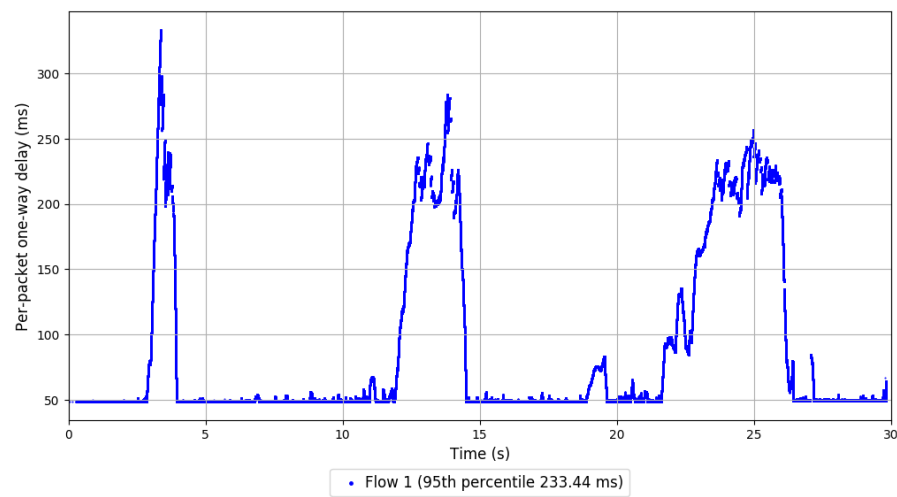
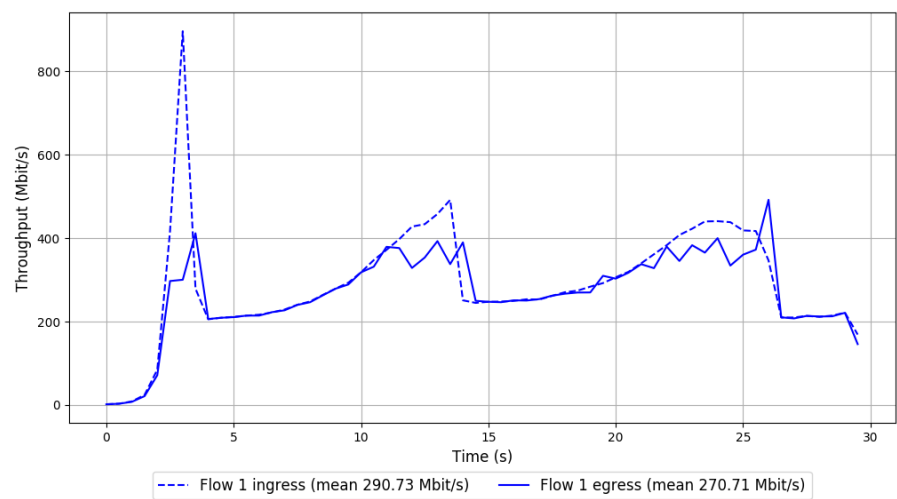
-- Flow 1:

Average throughput: 270.71 Mbit/s

95th percentile per-packet one-way delay: 233.439 ms

Loss rate: 7.20%

Run 10: Report of Vivace-loss — Data Link

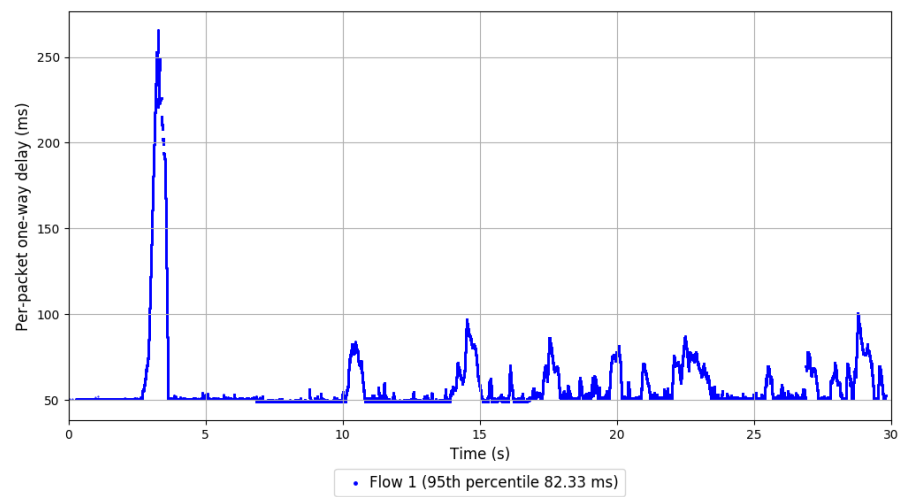
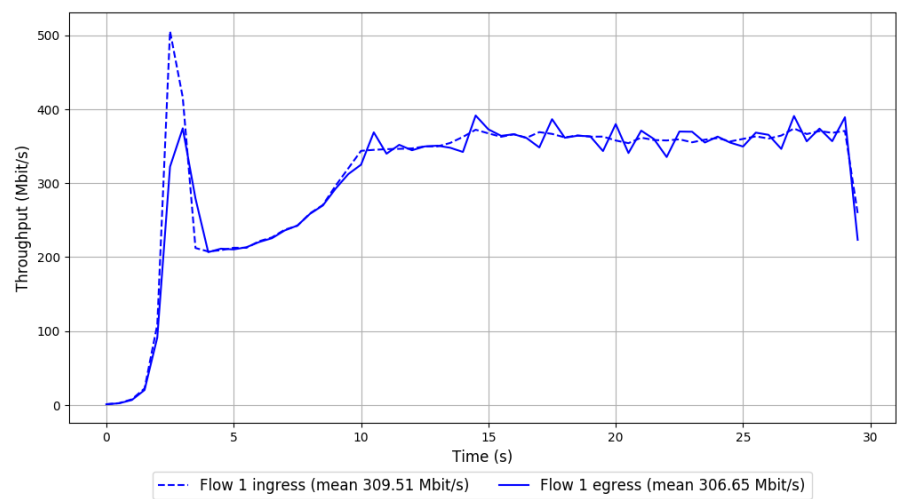


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-27 14:40:04
End at: 2018-02-27 14:40:35

# Below is generated by plot.py at 2018-02-27 21:47:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 306.65 Mbit/s
95th percentile per-packet one-way delay: 82.333 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 306.65 Mbit/s
95th percentile per-packet one-way delay: 82.333 ms
Loss rate: 1.26%
```


Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-27 14:54:49

End at: 2018-02-27 14:55:19

Below is generated by plot.py at 2018-02-27 21:49:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 356.63 Mbit/s

95th percentile per-packet one-way delay: 202.978 ms

Loss rate: 0.88%

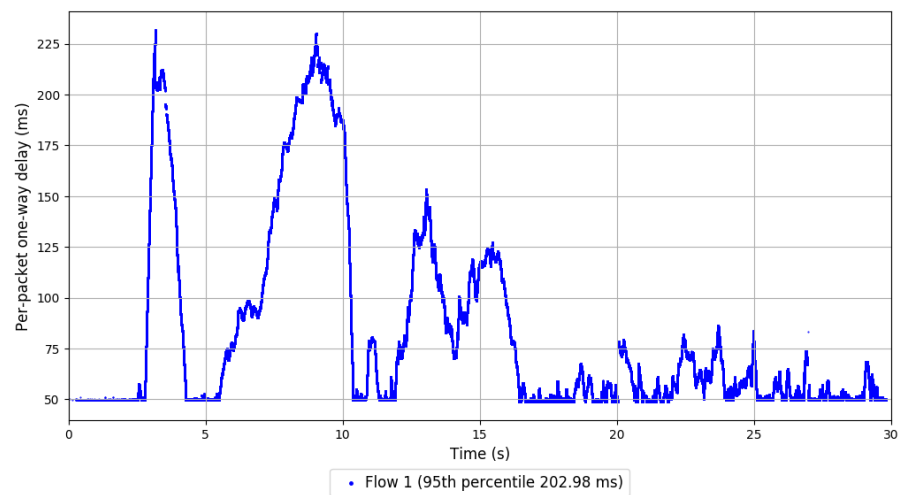
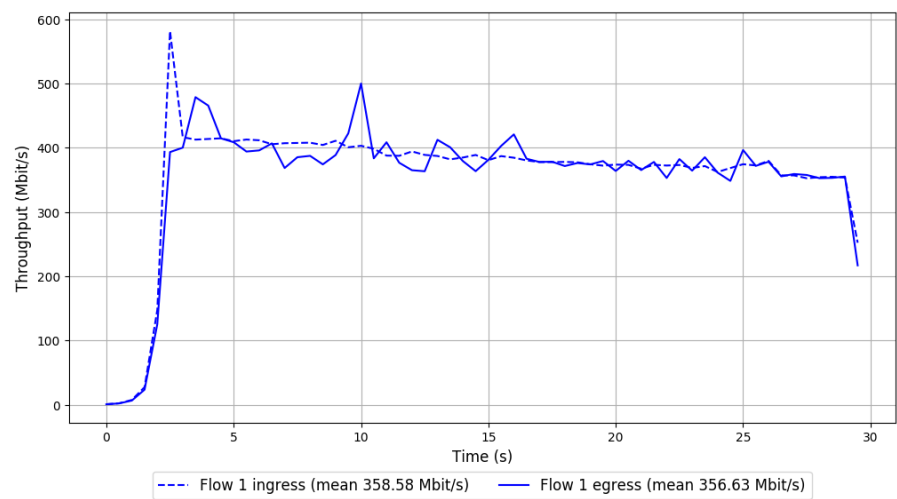
-- Flow 1:

Average throughput: 356.63 Mbit/s

95th percentile per-packet one-way delay: 202.978 ms

Loss rate: 0.88%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-27 15:09:29

End at: 2018-02-27 15:09:59

Below is generated by plot.py at 2018-02-27 21:49:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 354.82 Mbit/s

95th percentile per-packet one-way delay: 137.083 ms

Loss rate: 0.67%

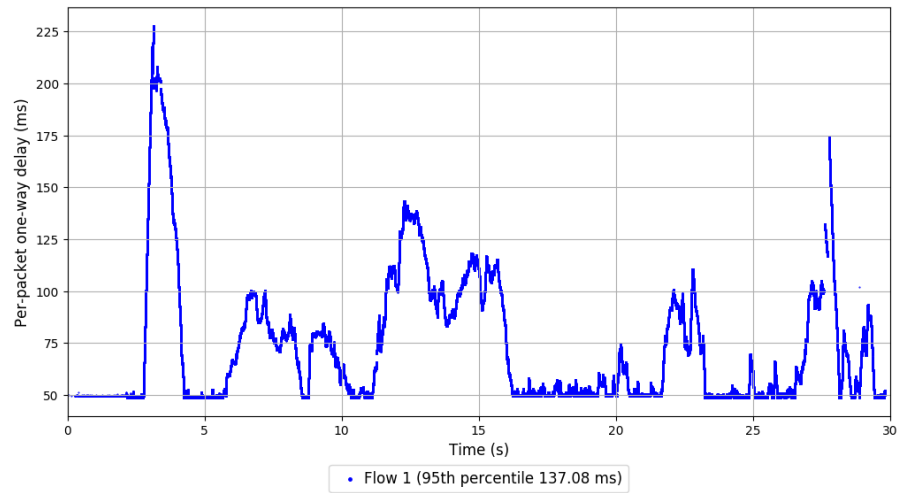
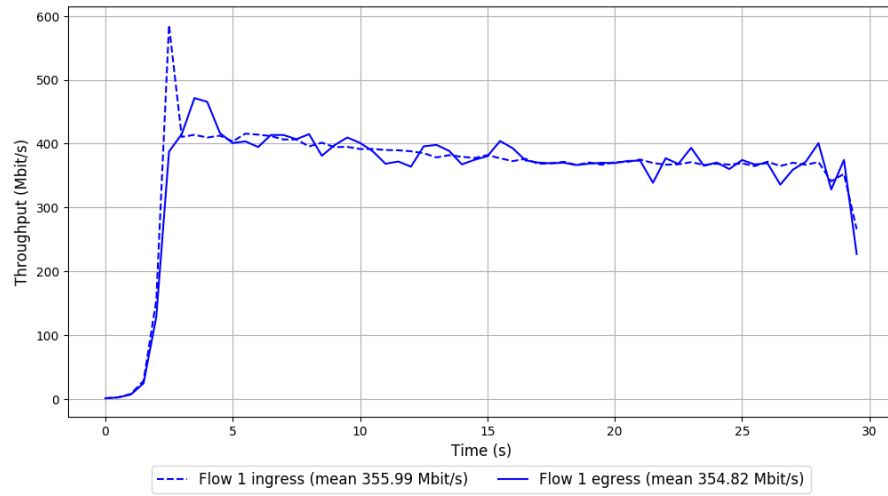
-- Flow 1:

Average throughput: 354.82 Mbit/s

95th percentile per-packet one-way delay: 137.083 ms

Loss rate: 0.67%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-27 15:24:15

End at: 2018-02-27 15:24:45

Below is generated by plot.py at 2018-02-27 21:49:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 287.10 Mbit/s

95th percentile per-packet one-way delay: 94.465 ms

Loss rate: 0.50%

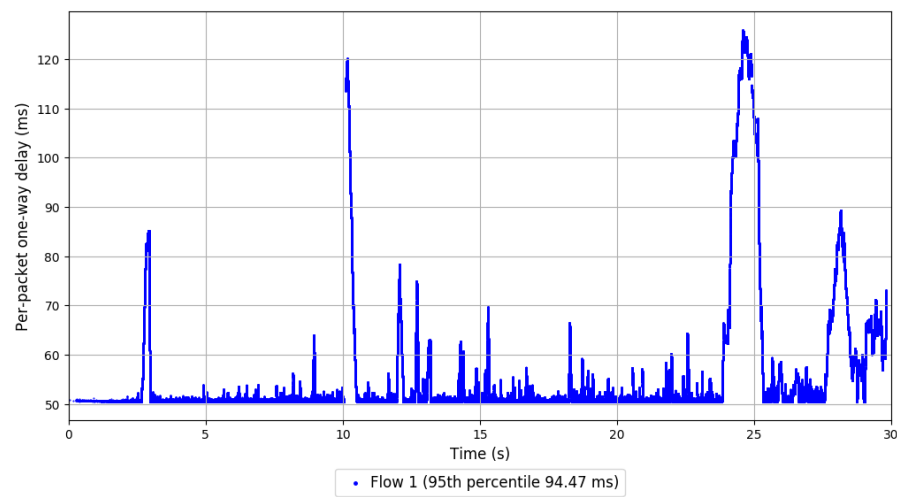
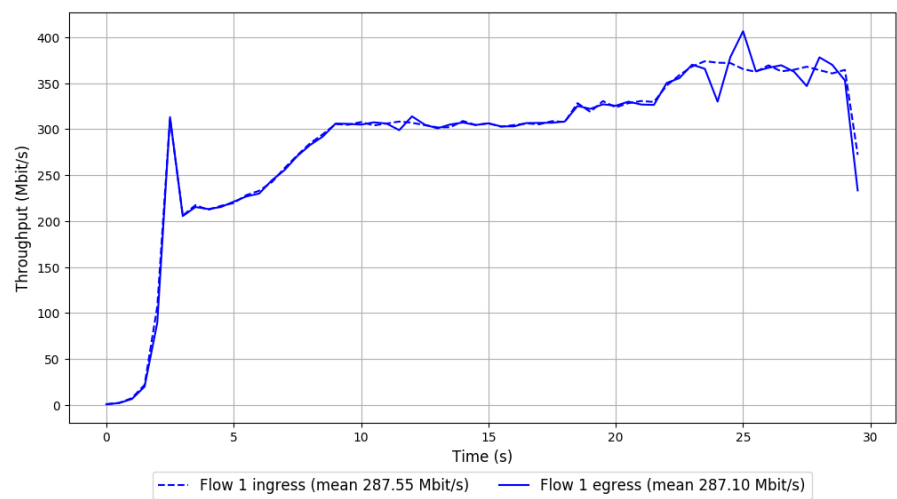
-- Flow 1:

Average throughput: 287.10 Mbit/s

95th percentile per-packet one-way delay: 94.465 ms

Loss rate: 0.50%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-27 15:38:54

End at: 2018-02-27 15:39:24

Below is generated by plot.py at 2018-02-27 21:49:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 235.84 Mbit/s

95th percentile per-packet one-way delay: 75.978 ms

Loss rate: 0.46%

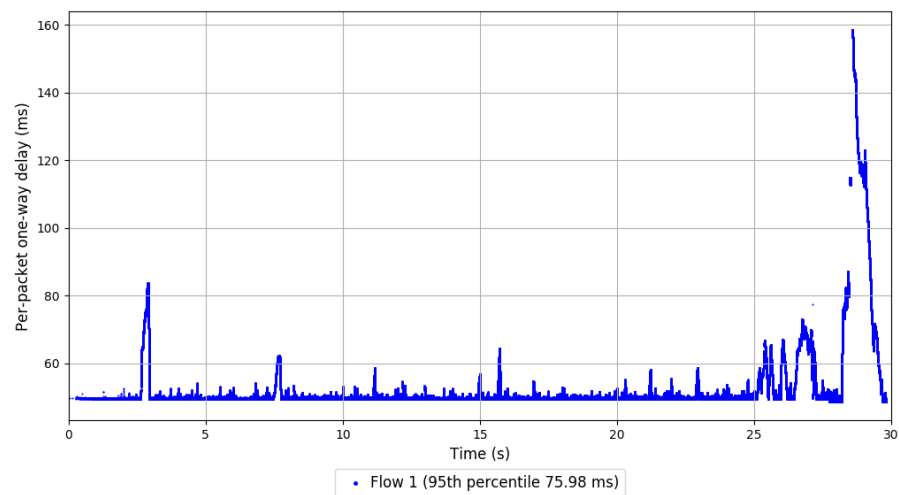
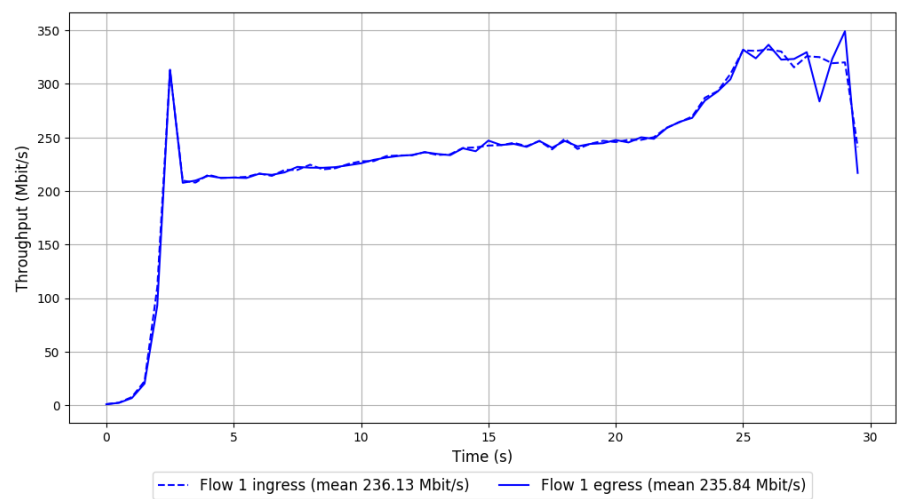
-- Flow 1:

Average throughput: 235.84 Mbit/s

95th percentile per-packet one-way delay: 75.978 ms

Loss rate: 0.46%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-27 15:53:33

End at: 2018-02-27 15:54:03

Below is generated by plot.py at 2018-02-27 21:50:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 285.67 Mbit/s

95th percentile per-packet one-way delay: 57.142 ms

Loss rate: 0.41%

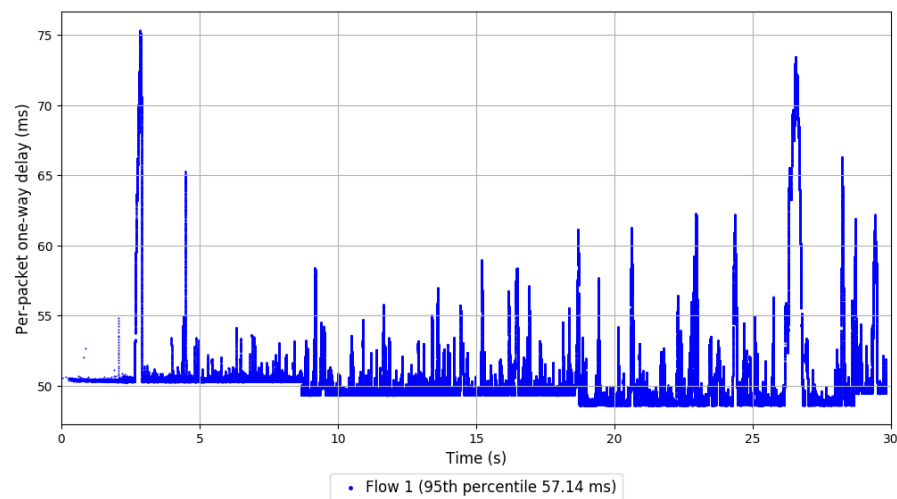
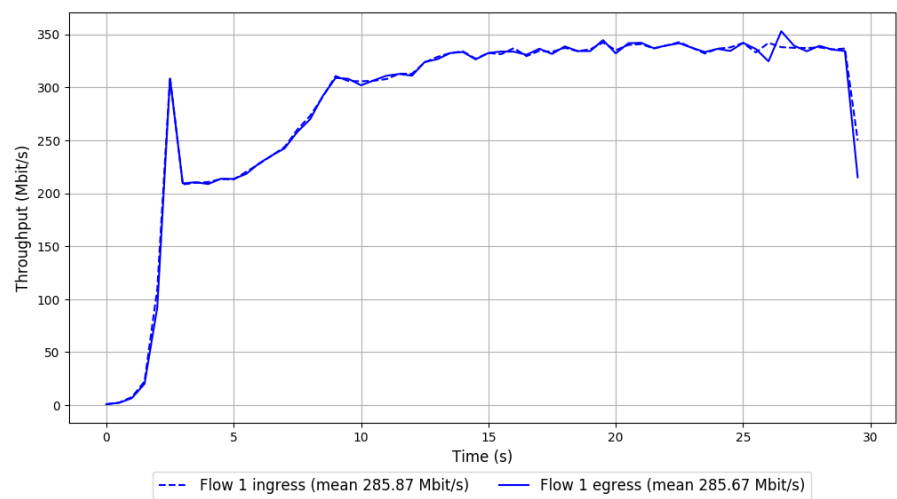
-- Flow 1:

Average throughput: 285.67 Mbit/s

95th percentile per-packet one-way delay: 57.142 ms

Loss rate: 0.41%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-27 16:08:15

End at: 2018-02-27 16:08:45

Below is generated by plot.py at 2018-02-27 21:50:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 275.76 Mbit/s

95th percentile per-packet one-way delay: 74.896 ms

Loss rate: 0.43%

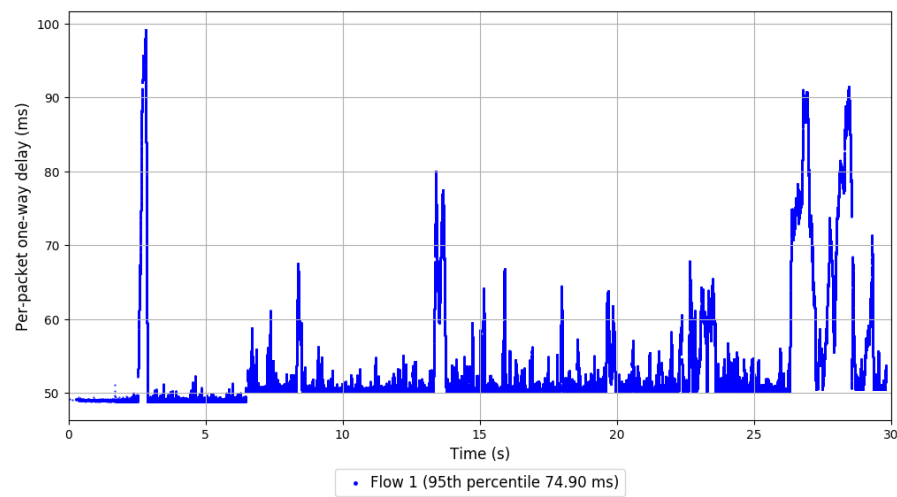
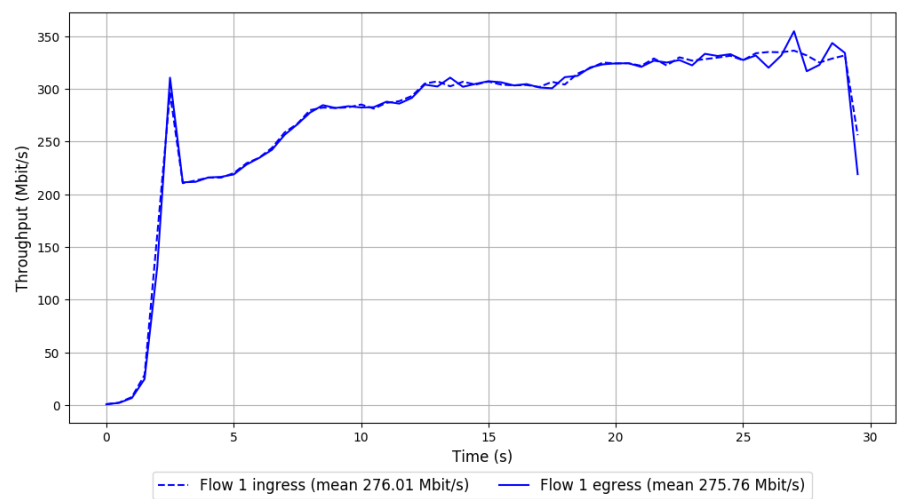
-- Flow 1:

Average throughput: 275.76 Mbit/s

95th percentile per-packet one-way delay: 74.896 ms

Loss rate: 0.43%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-27 16:22:55

End at: 2018-02-27 16:23:25

Below is generated by plot.py at 2018-02-27 21:51:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.08 Mbit/s

95th percentile per-packet one-way delay: 66.737 ms

Loss rate: 0.42%

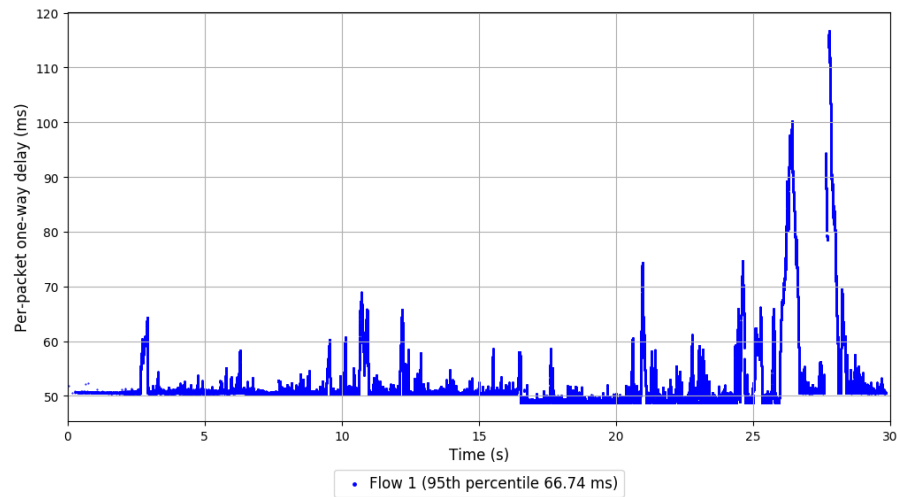
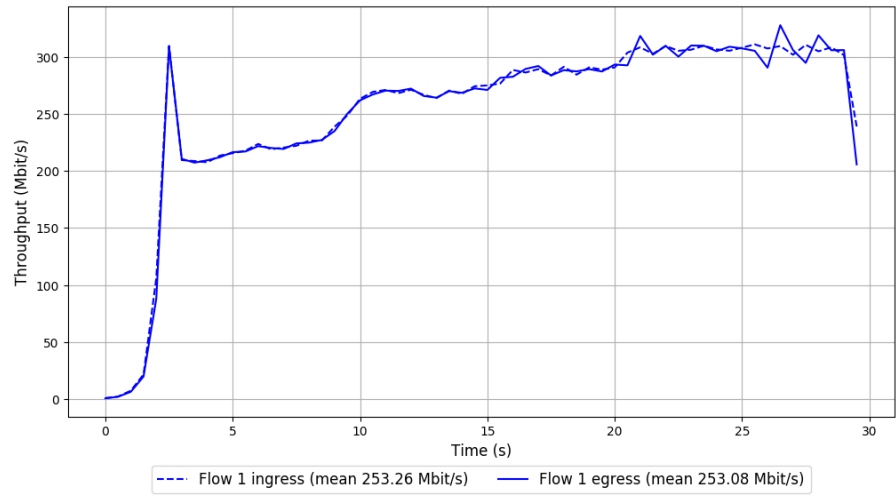
-- Flow 1:

Average throughput: 253.08 Mbit/s

95th percentile per-packet one-way delay: 66.737 ms

Loss rate: 0.42%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-27 16:37:40

End at: 2018-02-27 16:38:10

Below is generated by plot.py at 2018-02-27 21:51:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.99 Mbit/s

95th percentile per-packet one-way delay: 70.553 ms

Loss rate: 0.38%

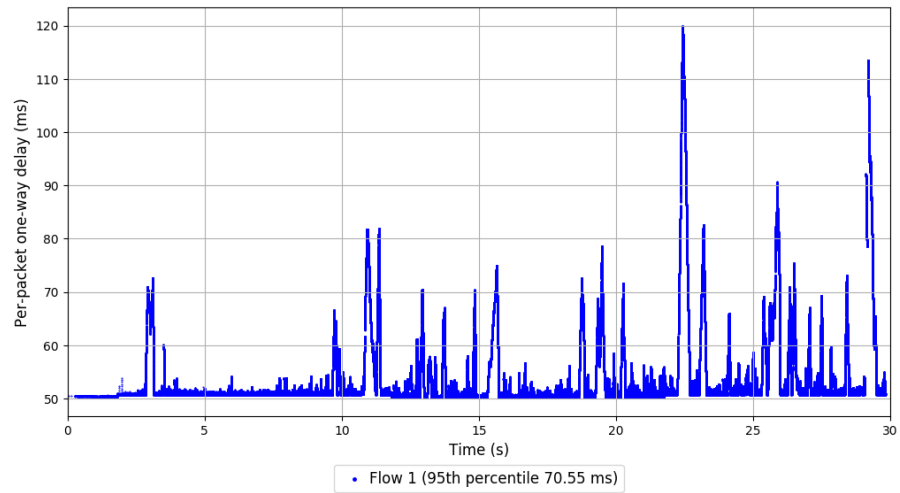
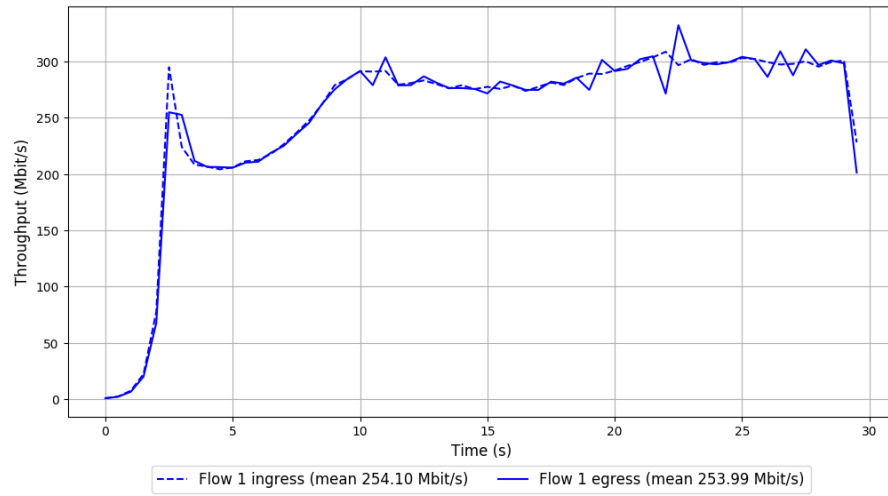
-- Flow 1:

Average throughput: 253.99 Mbit/s

95th percentile per-packet one-way delay: 70.553 ms

Loss rate: 0.38%

Run 9: Report of Vivace-LTE — Data Link



```
Run 10: Statistics of Vivace-LTE

Start at: 2018-02-27 16:52:20
End at: 2018-02-27 16:52:50

# Below is generated by plot.py at 2018-02-27 21:51:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 259.63 Mbit/s
95th percentile per-packet one-way delay: 62.771 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 259.63 Mbit/s
95th percentile per-packet one-way delay: 62.771 ms
Loss rate: 0.40%
```

Run 10: Report of Vivace-LTE — Data Link

