

Pantheon Report

Generated at 2018-03-06 07:46:11 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

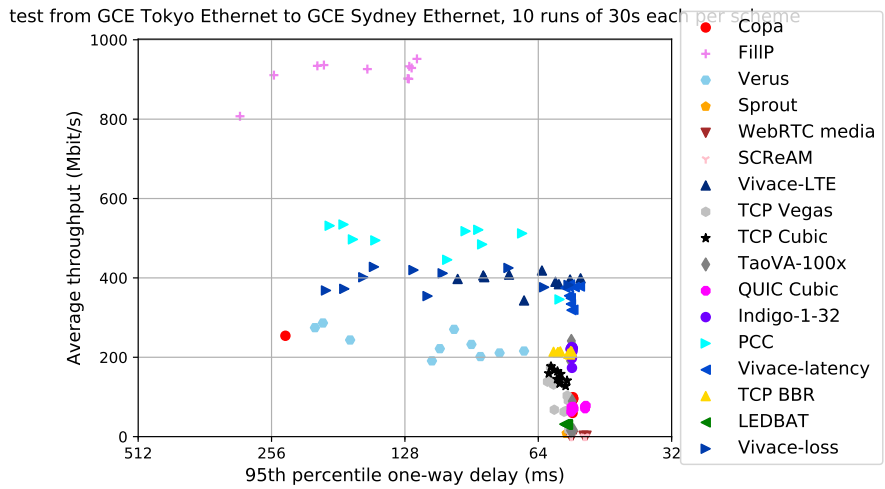
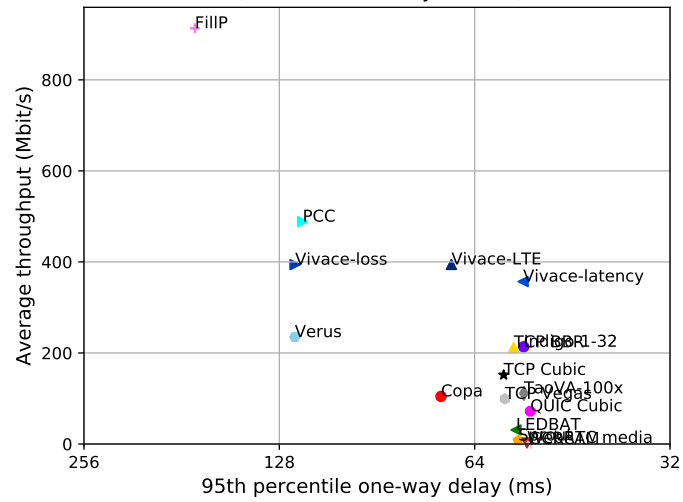
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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 @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	212.35	55.72	0.37
TCP Cubic	10	151.79	57.75	0.36
LEDBAT	10	30.86	55.28	0.69
PCC	10	488.43	117.83	0.78
QUIC Cubic	10	71.97	52.55	0.44
SCReAM	10	0.21	52.44	0.37
WebRTC media	10	2.32	53.16	0.41
Sprout	10	7.75	54.85	0.35
TaoVA-100x	10	111.33	53.76	0.41
TCP Vegas	10	99.18	57.49	0.26
Verus	10	234.82	121.17	0.63
Copa	10	104.56	72.13	2.88
FillP	10	913.24	172.73	3.84
Indigo-1-32	10	213.61	53.78	0.39
Vivace-latency	10	356.83	53.90	0.38
Vivace-loss	10	393.92	121.03	0.69
Vivace-LTE	10	394.50	69.51	0.47

Run 1: Statistics of TCP BBR

Start at: 2018-03-06 01:23:10

End at: 2018-03-06 01:23:40

Below is generated by plot.py at 2018-03-06 06:24:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.70 Mbit/s

95th percentile per-packet one-way delay: 54.106 ms

Loss rate: 0.36%

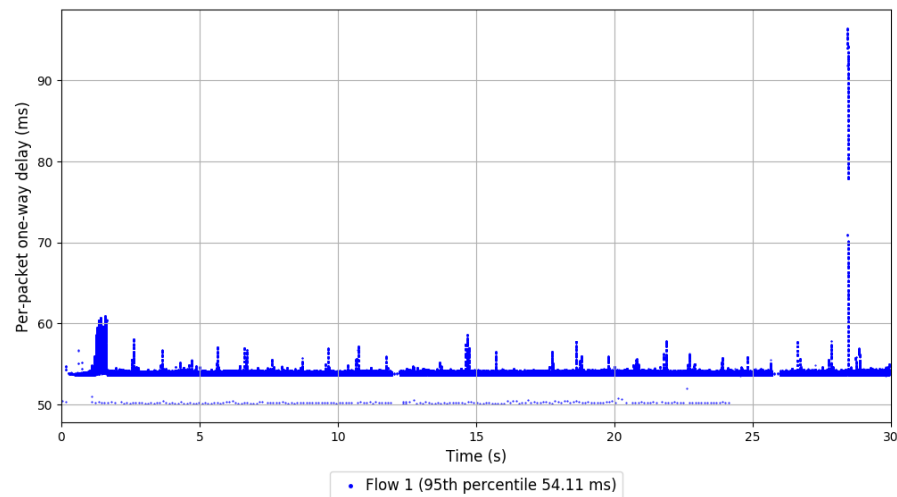
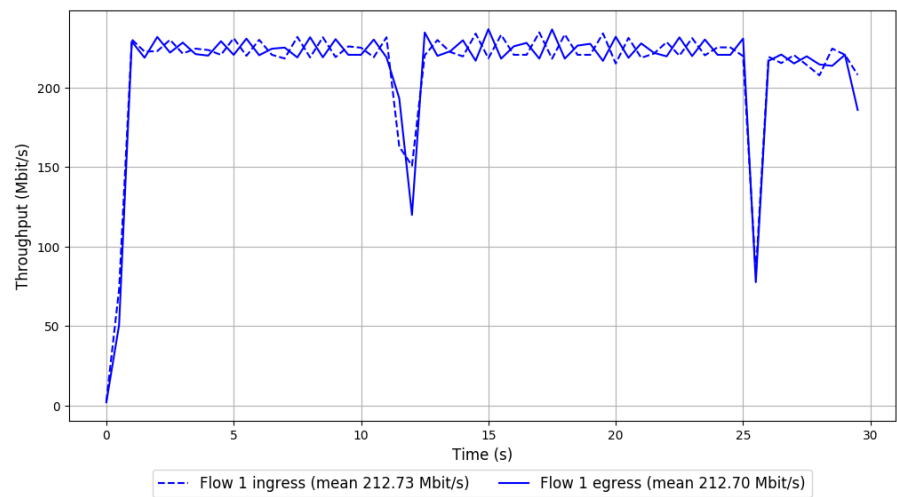
-- Flow 1:

Average throughput: 212.70 Mbit/s

95th percentile per-packet one-way delay: 54.106 ms

Loss rate: 0.36%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-03-06 01:37:26

End at: 2018-03-06 01:37:56

Below is generated by plot.py at 2018-03-06 06:24:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.84 Mbit/s

95th percentile per-packet one-way delay: 57.075 ms

Loss rate: 0.36%

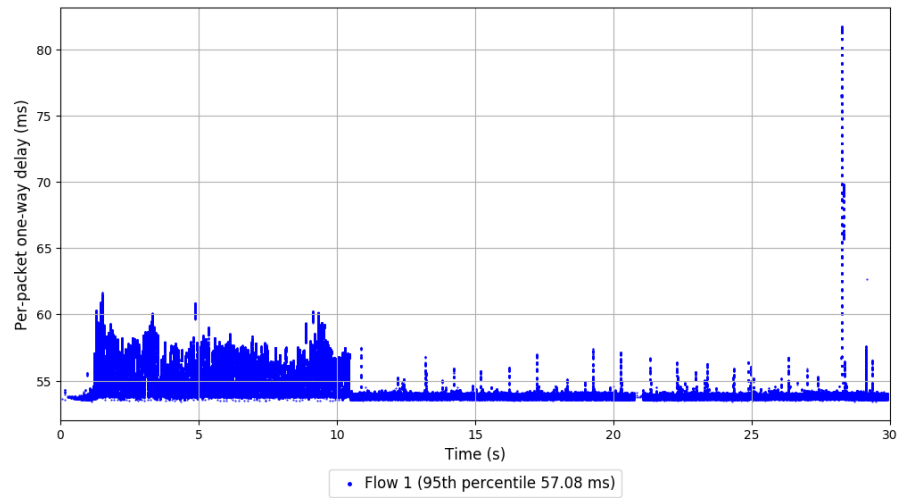
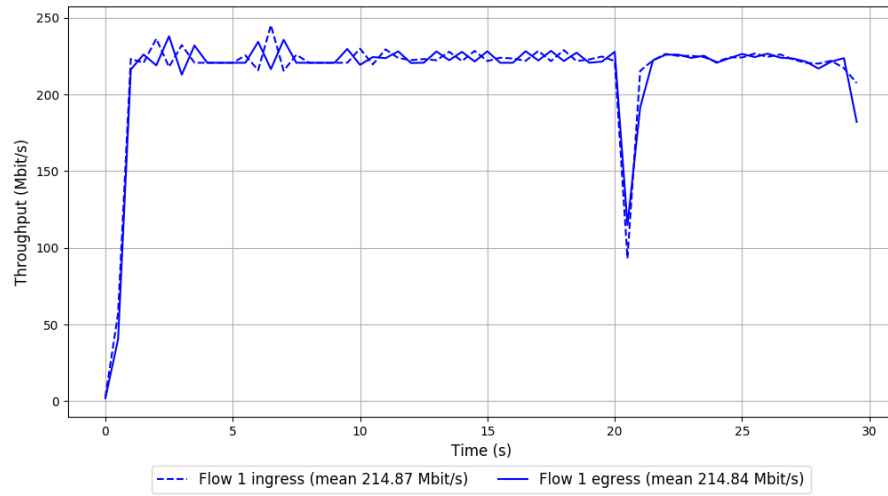
-- Flow 1:

Average throughput: 214.84 Mbit/s

95th percentile per-packet one-way delay: 57.075 ms

Loss rate: 0.36%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-03-06 01:51:44

End at: 2018-03-06 01:52:14

Below is generated by plot.py at 2018-03-06 06:24:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.74 Mbit/s

95th percentile per-packet one-way delay: 57.819 ms

Loss rate: 0.38%

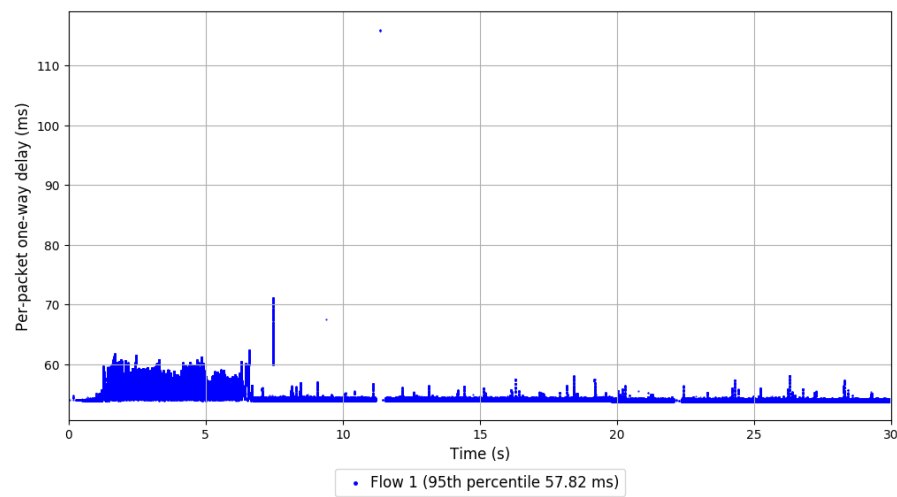
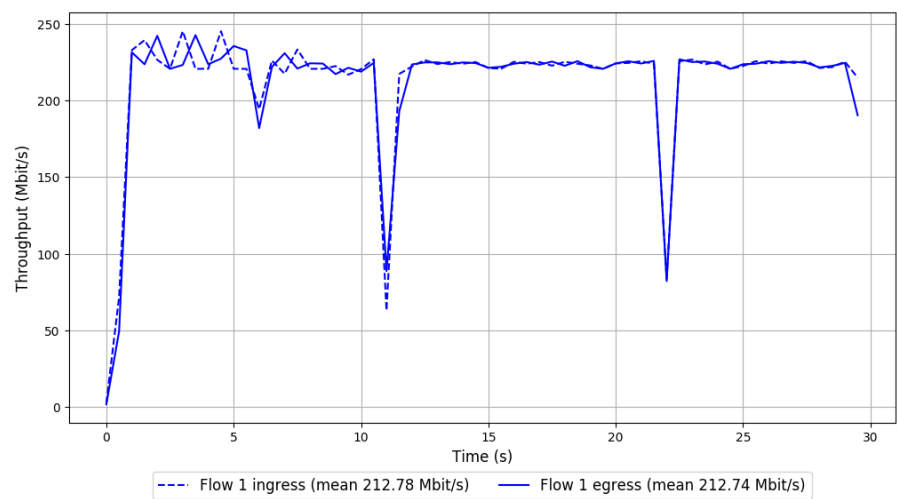
-- Flow 1:

Average throughput: 212.74 Mbit/s

95th percentile per-packet one-way delay: 57.819 ms

Loss rate: 0.38%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-03-06 02:06:17

End at: 2018-03-06 02:06:47

Below is generated by plot.py at 2018-03-06 06:24:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.80 Mbit/s

95th percentile per-packet one-way delay: 54.424 ms

Loss rate: 0.33%

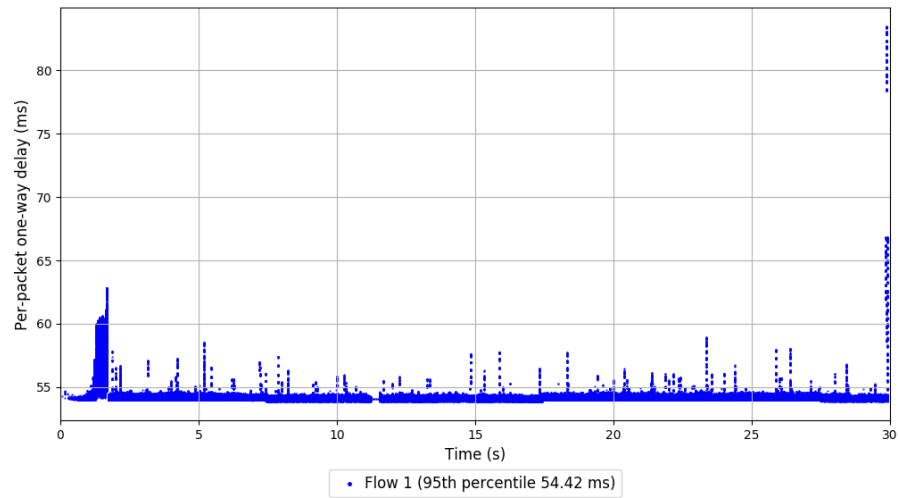
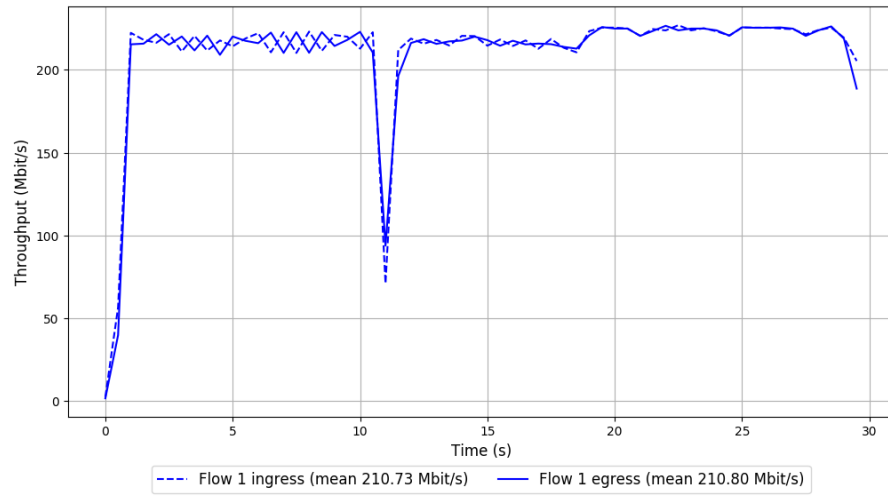
-- Flow 1:

Average throughput: 210.80 Mbit/s

95th percentile per-packet one-way delay: 54.424 ms

Loss rate: 0.33%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-03-06 02:20:33

End at: 2018-03-06 02:21:03

Below is generated by plot.py at 2018-03-06 06:24:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.07 Mbit/s

95th percentile per-packet one-way delay: 54.253 ms

Loss rate: 0.39%

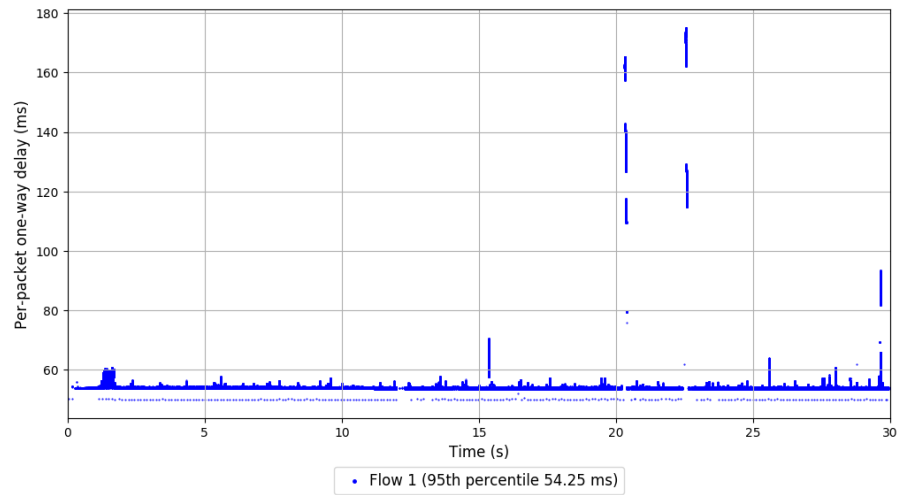
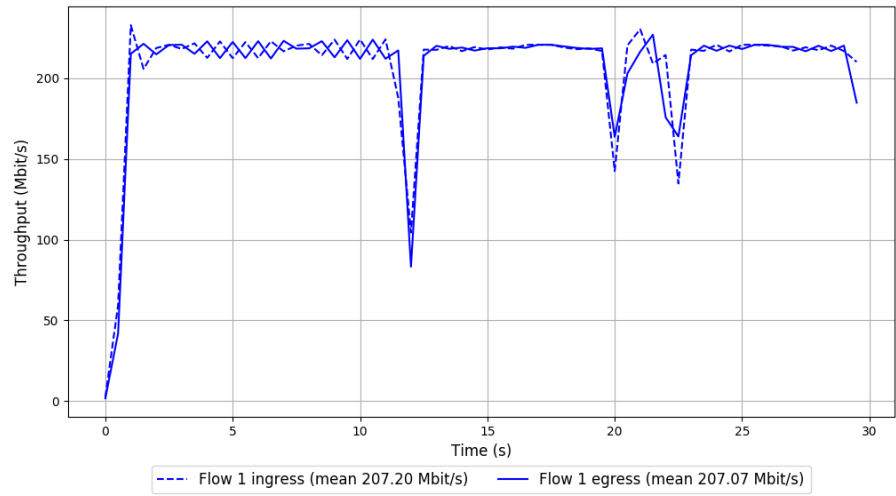
-- Flow 1:

Average throughput: 207.07 Mbit/s

95th percentile per-packet one-way delay: 54.253 ms

Loss rate: 0.39%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-03-06 02:35:14

End at: 2018-03-06 02:35:44

Below is generated by plot.py at 2018-03-06 06:24:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.67 Mbit/s

95th percentile per-packet one-way delay: 54.039 ms

Loss rate: 0.39%

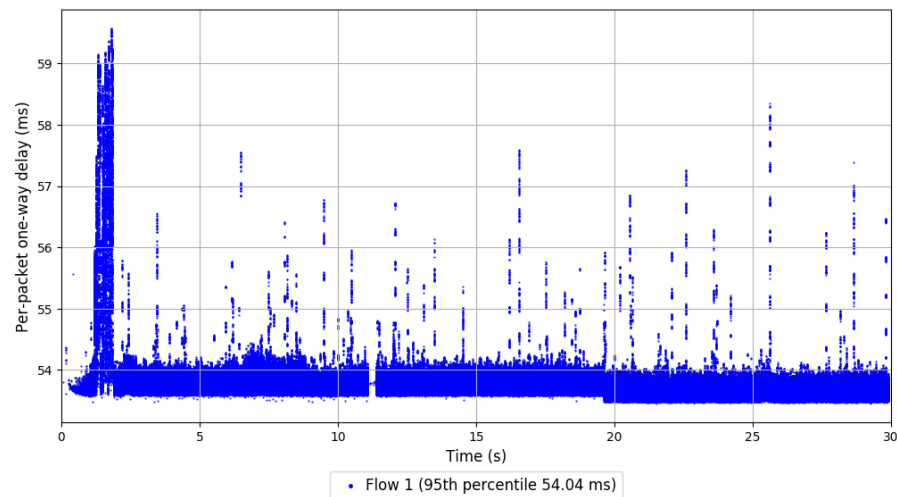
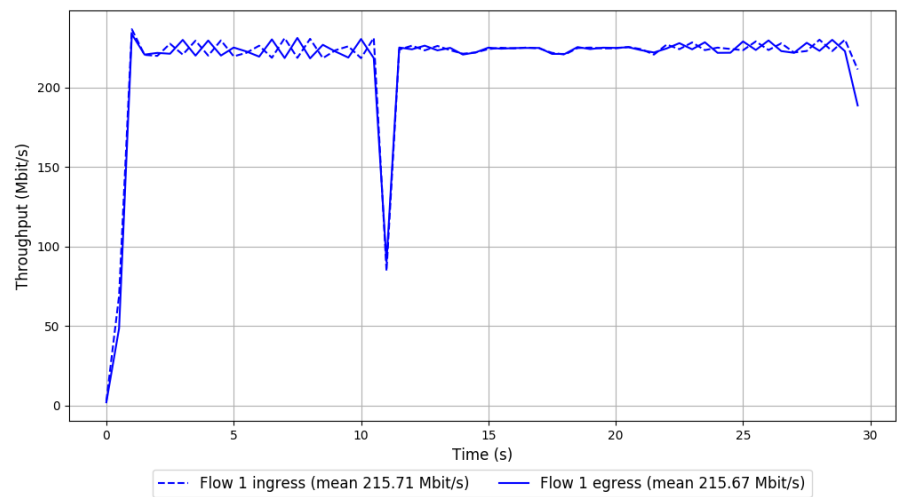
-- Flow 1:

Average throughput: 215.67 Mbit/s

95th percentile per-packet one-way delay: 54.039 ms

Loss rate: 0.39%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-03-06 02:49:31

End at: 2018-03-06 02:50:01

Below is generated by plot.py at 2018-03-06 06:24:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.75 Mbit/s

95th percentile per-packet one-way delay: 57.776 ms

Loss rate: 0.37%

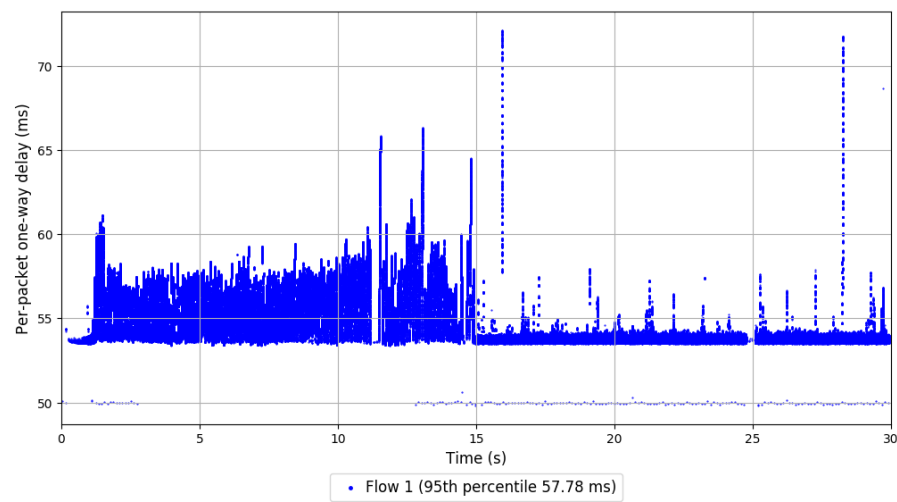
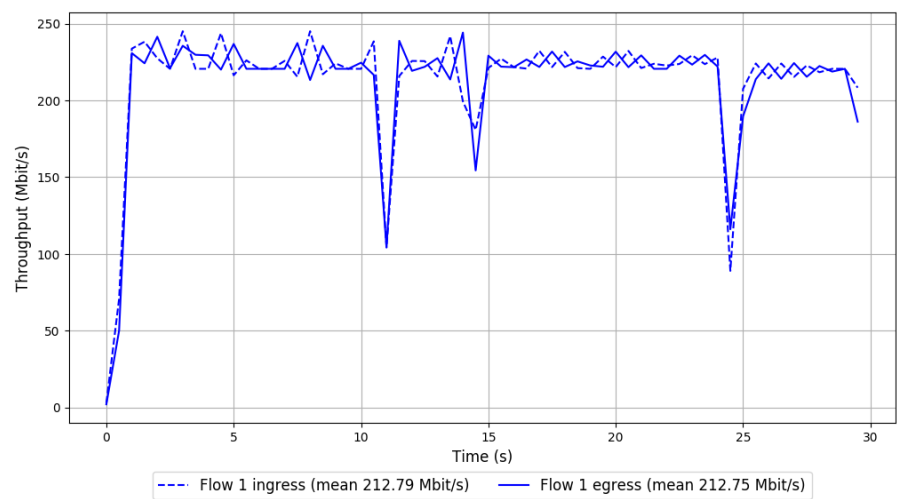
-- Flow 1:

Average throughput: 212.75 Mbit/s

95th percentile per-packet one-way delay: 57.776 ms

Loss rate: 0.37%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-03-06 03:03:52

End at: 2018-03-06 03:04:23

Below is generated by plot.py at 2018-03-06 06:24:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.80 Mbit/s

95th percentile per-packet one-way delay: 59.122 ms

Loss rate: 0.36%

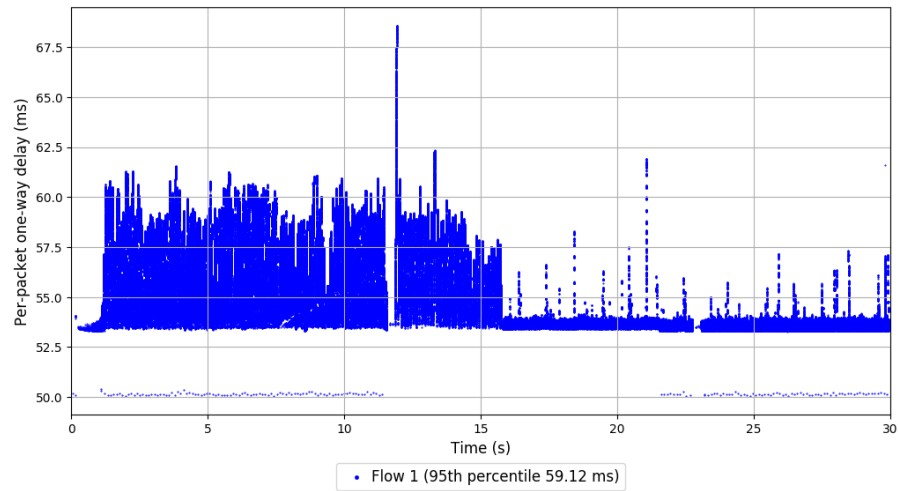
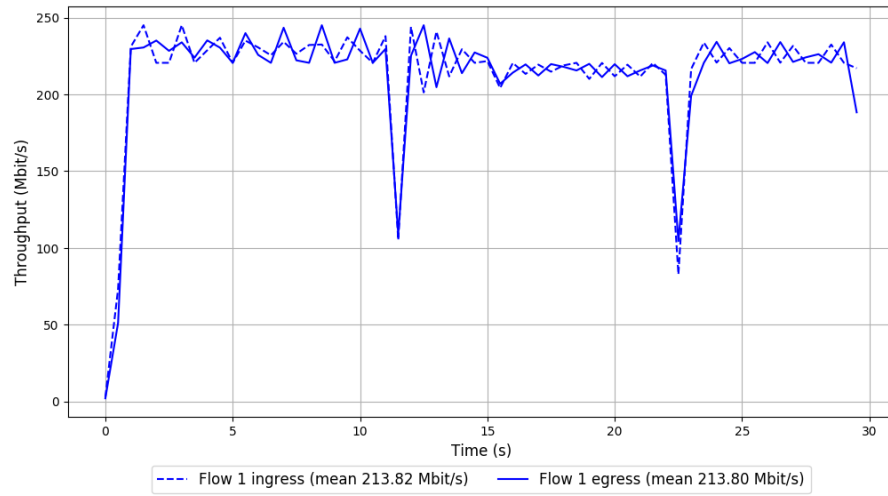
-- Flow 1:

Average throughput: 213.80 Mbit/s

95th percentile per-packet one-way delay: 59.122 ms

Loss rate: 0.36%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-03-06 03:18:35

End at: 2018-03-06 03:19:05

Below is generated by plot.py at 2018-03-06 06:27:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.07 Mbit/s

95th percentile per-packet one-way delay: 54.761 ms

Loss rate: 0.38%

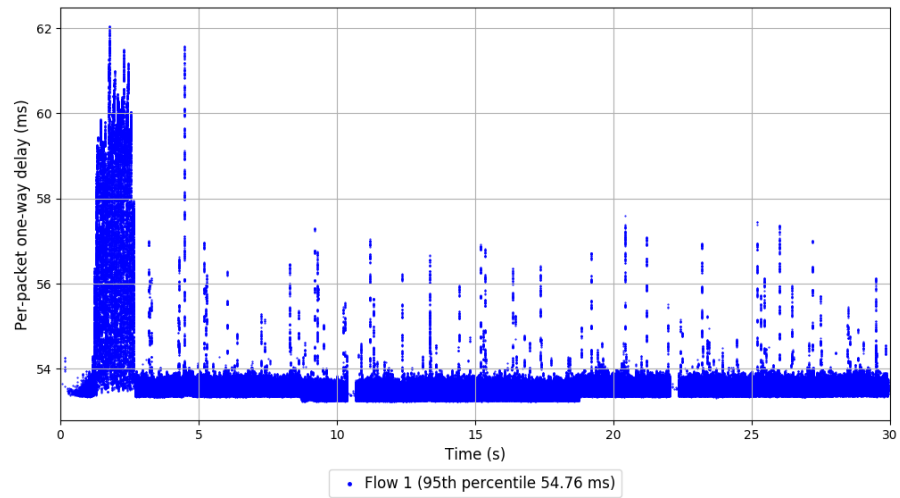
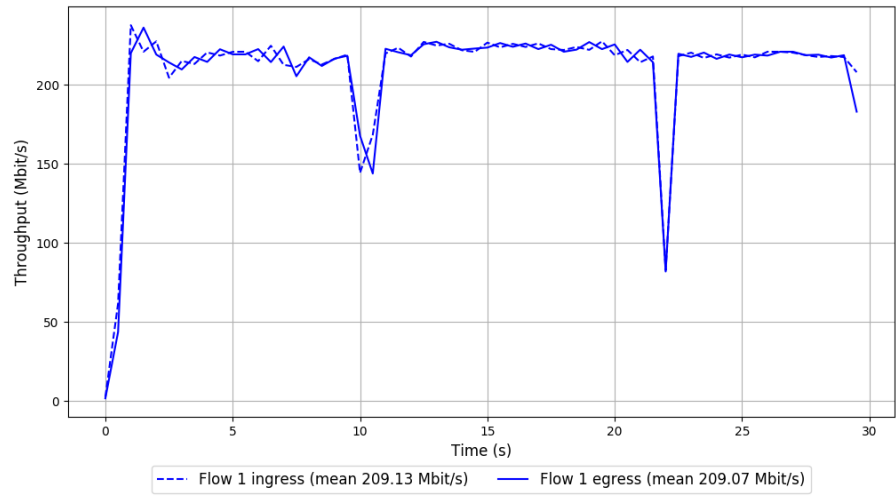
-- Flow 1:

Average throughput: 209.07 Mbit/s

95th percentile per-packet one-way delay: 54.761 ms

Loss rate: 0.38%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-03-06 03:33:14

End at: 2018-03-06 03:33:44

Below is generated by plot.py at 2018-03-06 06:27:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.04 Mbit/s

95th percentile per-packet one-way delay: 53.786 ms

Loss rate: 0.36%

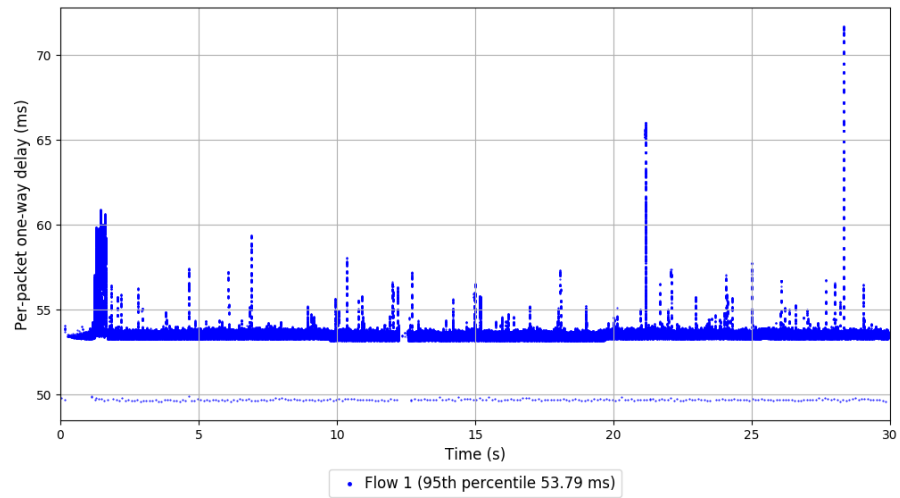
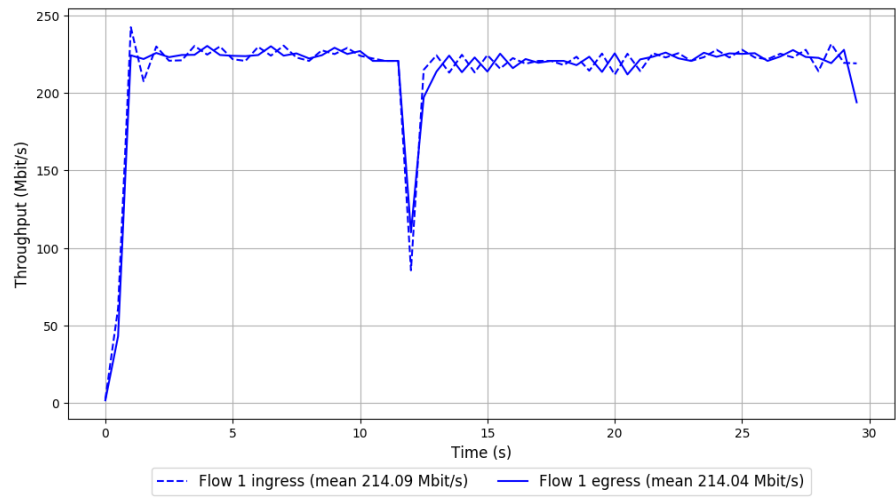
-- Flow 1:

Average throughput: 214.04 Mbit/s

95th percentile per-packet one-way delay: 53.786 ms

Loss rate: 0.36%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-03-06 01:26:58

End at: 2018-03-06 01:27:28

Below is generated by plot.py at 2018-03-06 06:27:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 157.84 Mbit/s

95th percentile per-packet one-way delay: 56.981 ms

Loss rate: 0.35%

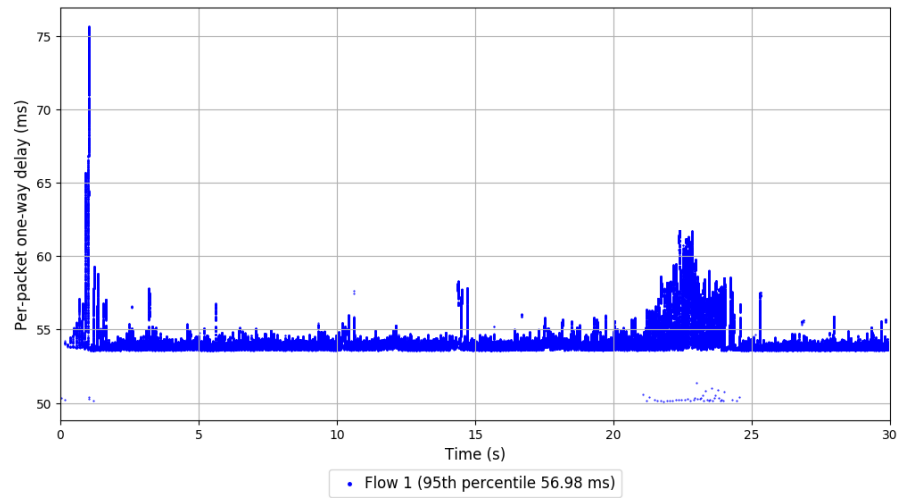
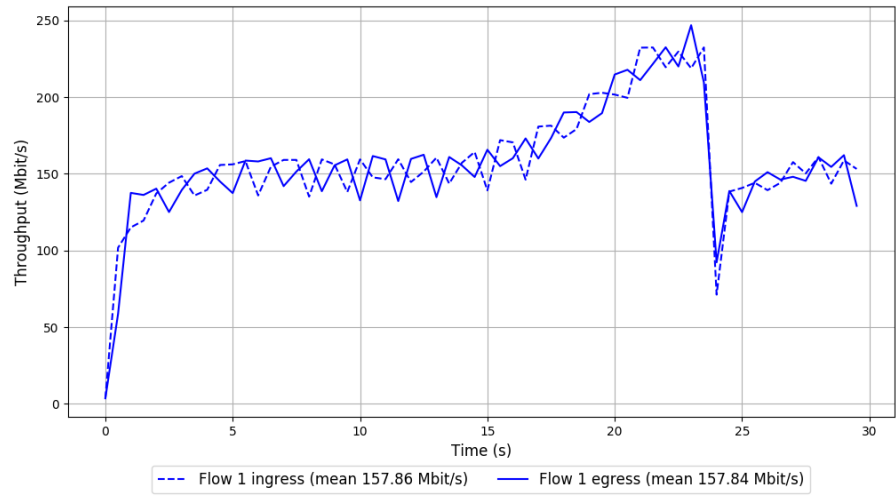
-- Flow 1:

Average throughput: 157.84 Mbit/s

95th percentile per-packet one-way delay: 56.981 ms

Loss rate: 0.35%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-03-06 01:41:18

End at: 2018-03-06 01:41:48

Below is generated by plot.py at 2018-03-06 06:27:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 127.70 Mbit/s

95th percentile per-packet one-way delay: 55.519 ms

Loss rate: 0.40%

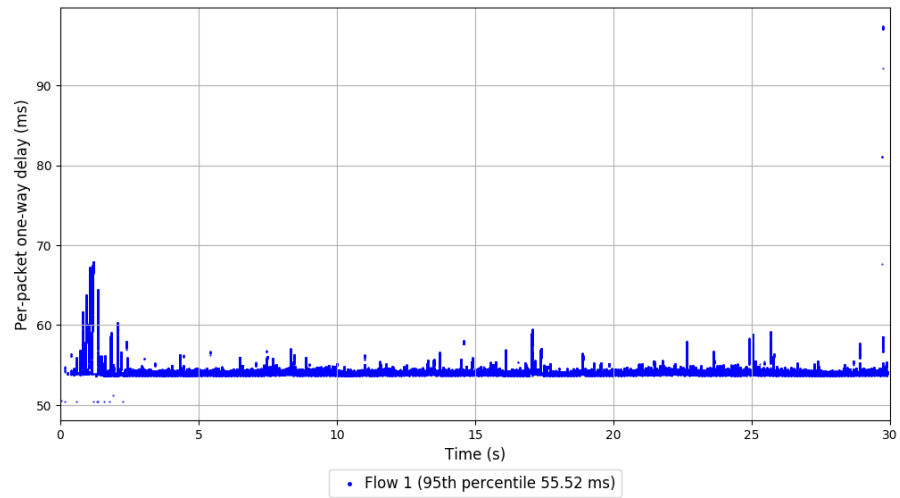
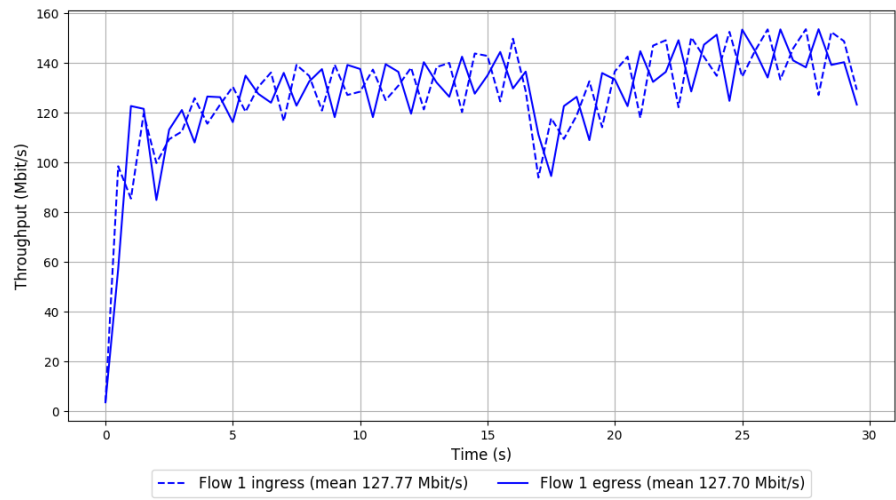
-- Flow 1:

Average throughput: 127.70 Mbit/s

95th percentile per-packet one-way delay: 55.519 ms

Loss rate: 0.40%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-03-06 01:55:38

End at: 2018-03-06 01:56:08

Below is generated by plot.py at 2018-03-06 06:27:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 141.24 Mbit/s

95th percentile per-packet one-way delay: 55.110 ms

Loss rate: 0.46%

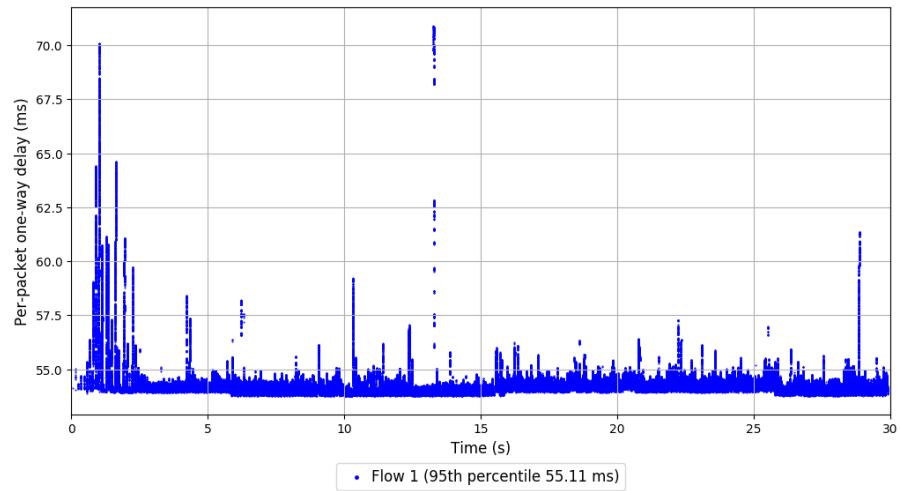
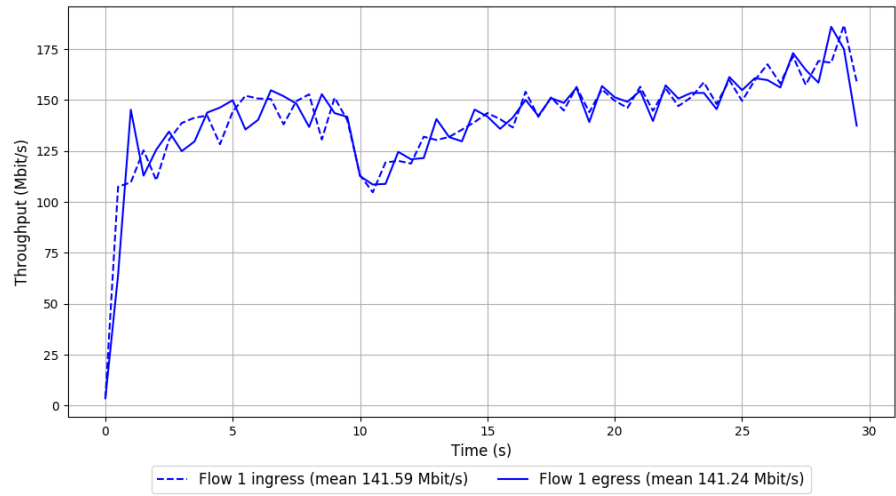
-- Flow 1:

Average throughput: 141.24 Mbit/s

95th percentile per-packet one-way delay: 55.110 ms

Loss rate: 0.46%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-03-06 02:10:06

End at: 2018-03-06 02:10:36

Below is generated by plot.py at 2018-03-06 06:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 159.31 Mbit/s

95th percentile per-packet one-way delay: 60.594 ms

Loss rate: 0.28%

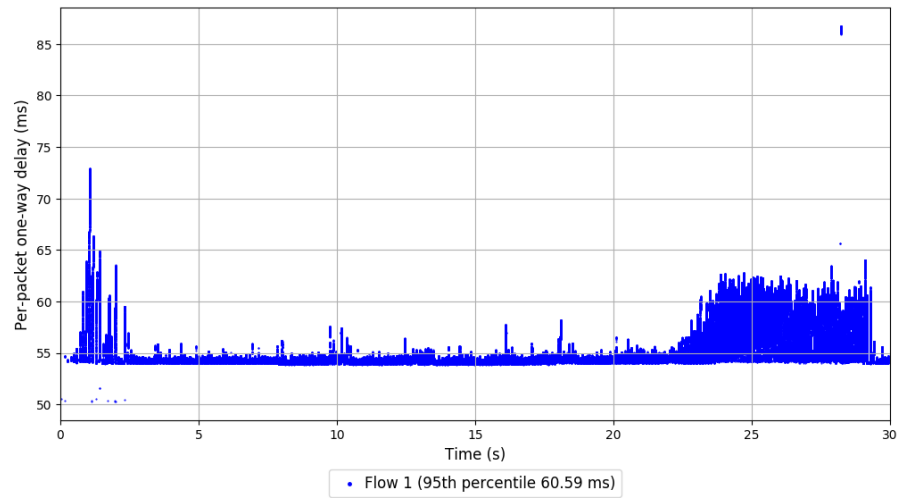
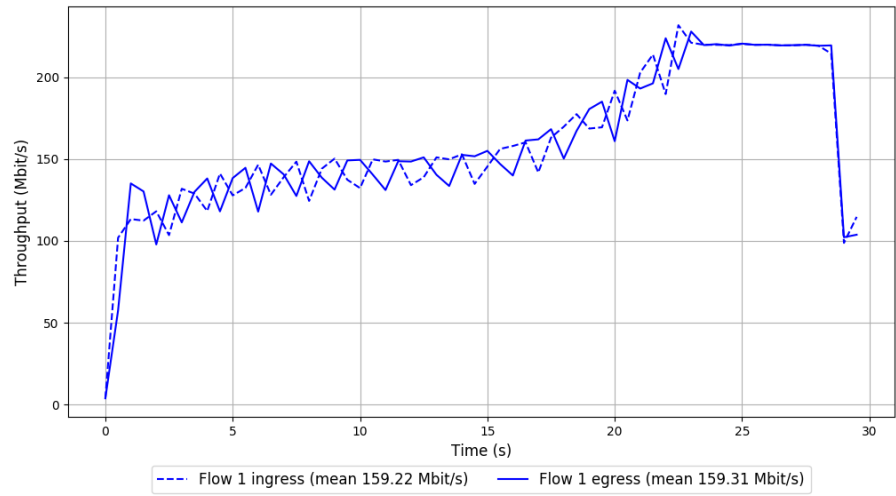
-- Flow 1:

Average throughput: 159.31 Mbit/s

95th percentile per-packet one-way delay: 60.594 ms

Loss rate: 0.28%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-03-06 02:24:25

End at: 2018-03-06 02:24:55

Below is generated by plot.py at 2018-03-06 06:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 145.03 Mbit/s

95th percentile per-packet one-way delay: 58.069 ms

Loss rate: 0.37%

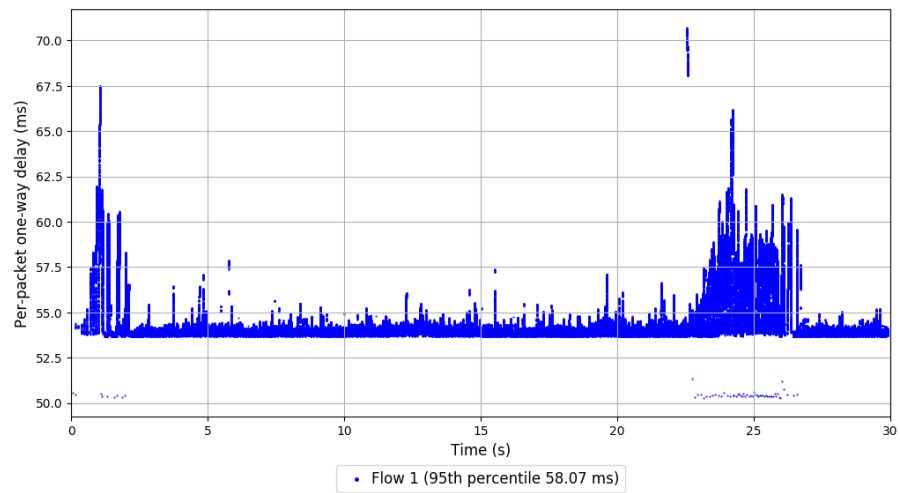
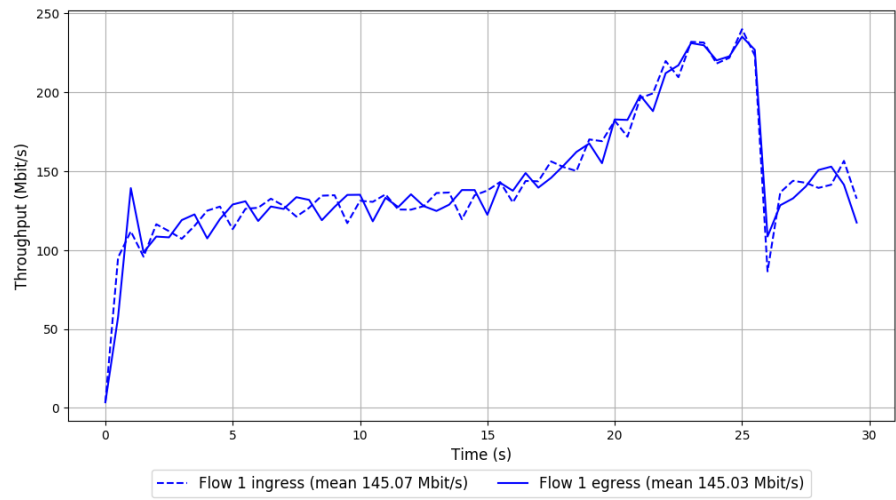
-- Flow 1:

Average throughput: 145.03 Mbit/s

95th percentile per-packet one-way delay: 58.069 ms

Loss rate: 0.37%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-03-06 02:39:08

End at: 2018-03-06 02:39:38

Below is generated by plot.py at 2018-03-06 06:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.23 Mbit/s

95th percentile per-packet one-way delay: 58.954 ms

Loss rate: 0.53%

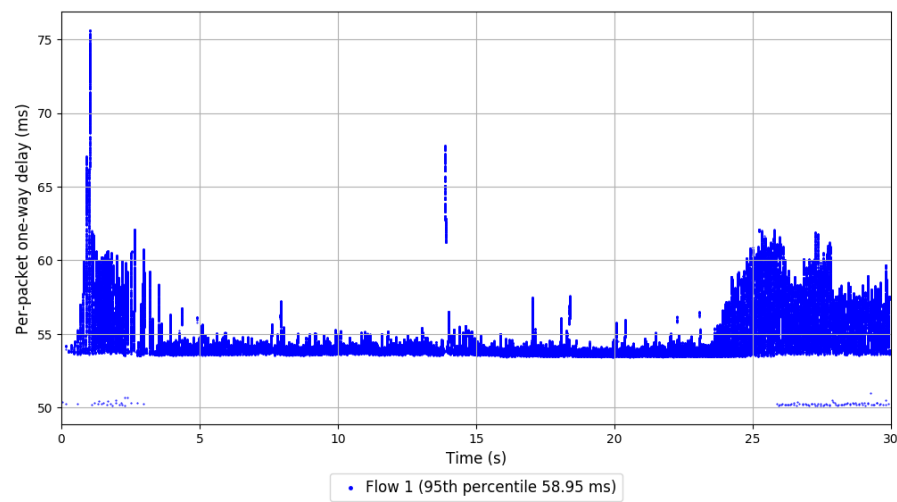
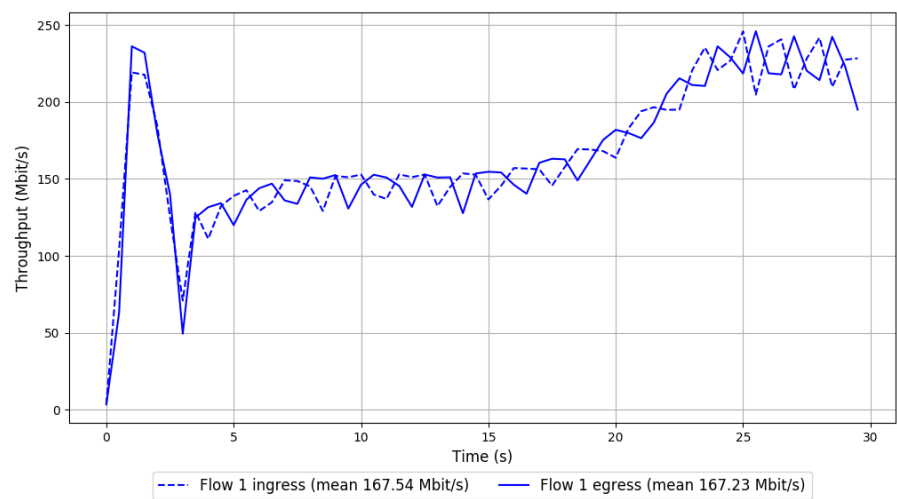
-- Flow 1:

Average throughput: 167.23 Mbit/s

95th percentile per-packet one-way delay: 58.954 ms

Loss rate: 0.53%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-03-06 02:53:24

End at: 2018-03-06 02:53:54

Below is generated by plot.py at 2018-03-06 06:28:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 133.79 Mbit/s

95th percentile per-packet one-way delay: 57.279 ms

Loss rate: 0.29%

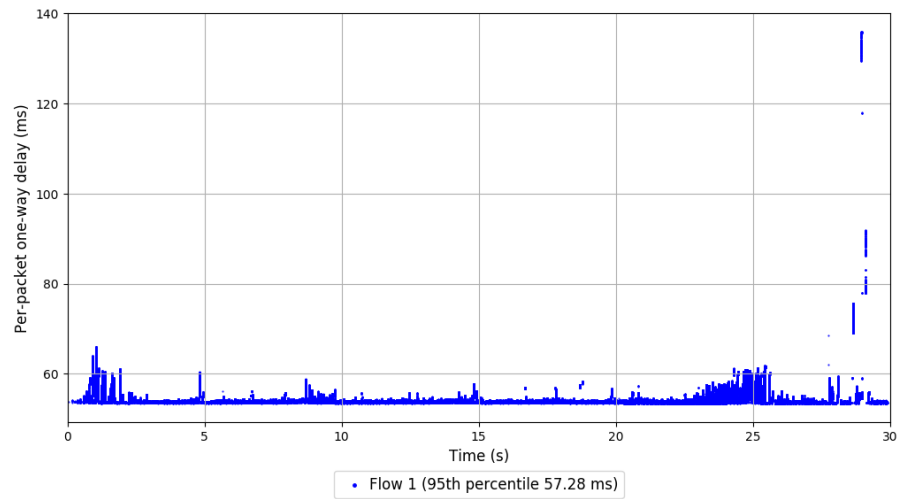
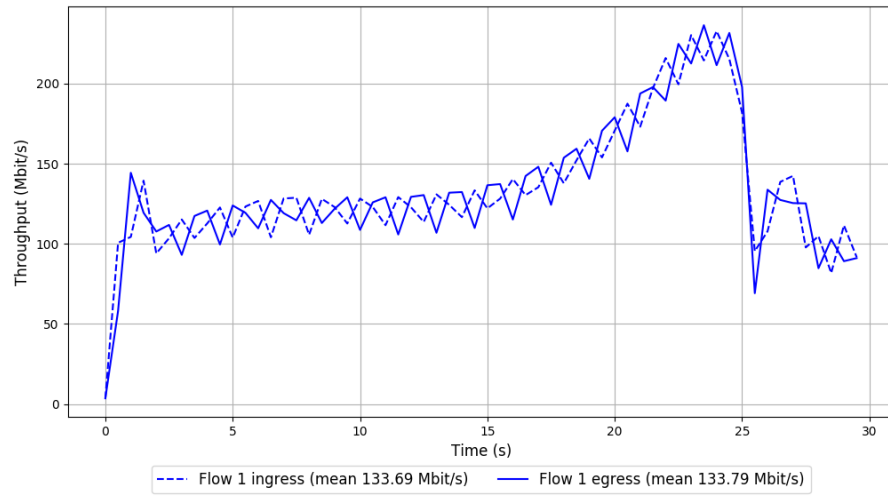
-- Flow 1:

Average throughput: 133.79 Mbit/s

95th percentile per-packet one-way delay: 57.279 ms

Loss rate: 0.29%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-03-06 03:07:48

End at: 2018-03-06 03:08:18

Below is generated by plot.py at 2018-03-06 06:29:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.98 Mbit/s

95th percentile per-packet one-way delay: 59.911 ms

Loss rate: 0.32%

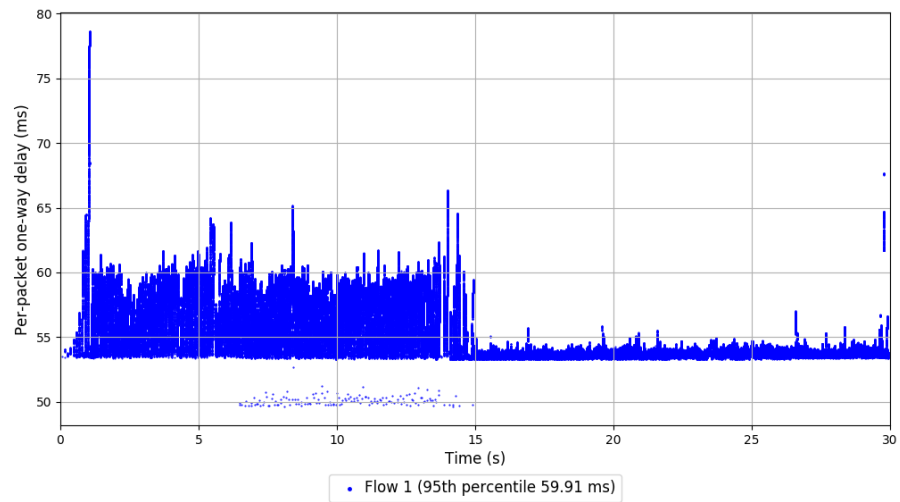
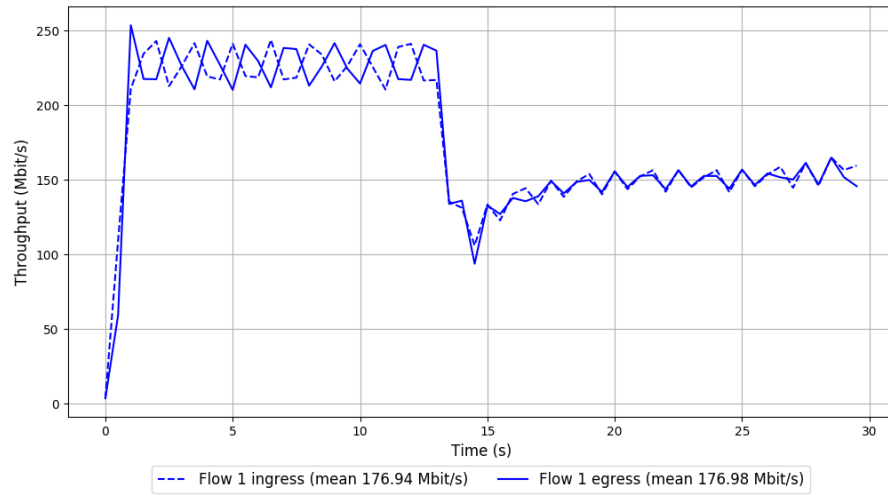
-- Flow 1:

Average throughput: 176.98 Mbit/s

95th percentile per-packet one-way delay: 59.911 ms

Loss rate: 0.32%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-03-06 03:22:25

End at: 2018-03-06 03:22:55

Below is generated by plot.py at 2018-03-06 06:29:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 144.28 Mbit/s

95th percentile per-packet one-way delay: 57.121 ms

Loss rate: 0.36%

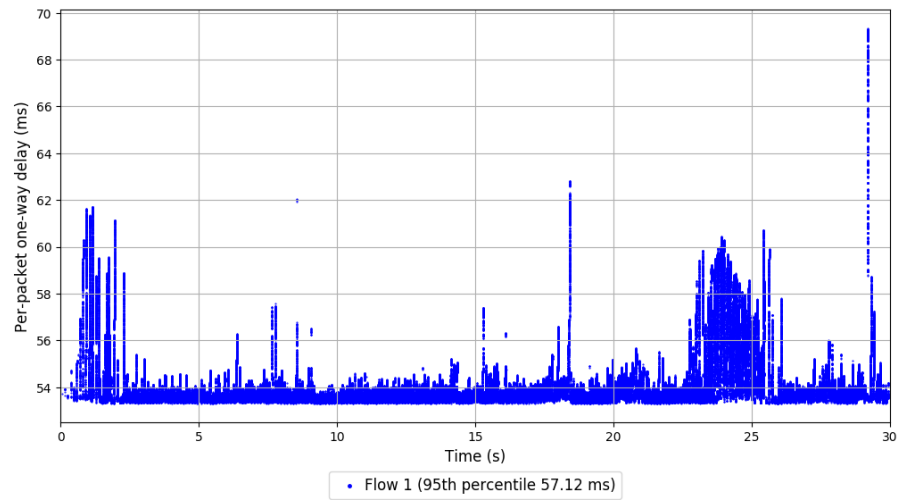
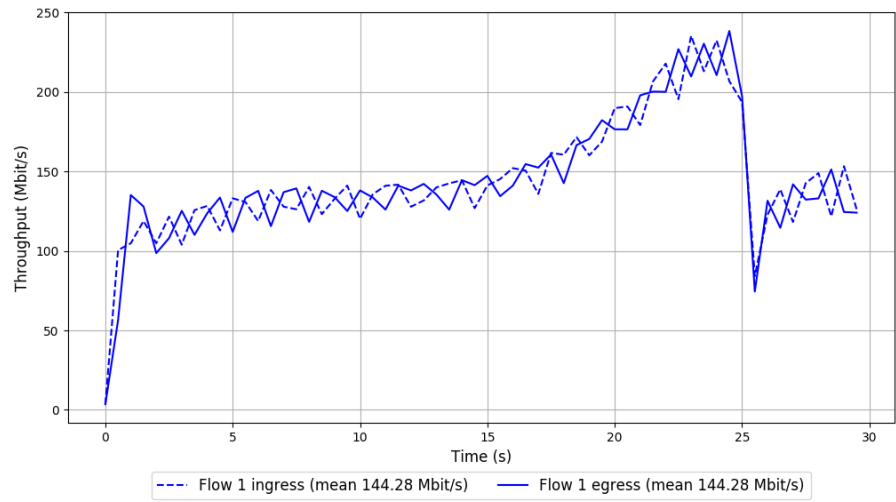
-- Flow 1:

Average throughput: 144.28 Mbit/s

95th percentile per-packet one-way delay: 57.121 ms

Loss rate: 0.36%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-03-06 03:37:05

End at: 2018-03-06 03:37:35

Below is generated by plot.py at 2018-03-06 06:29:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 164.55 Mbit/s

95th percentile per-packet one-way delay: 57.928 ms

Loss rate: 0.28%

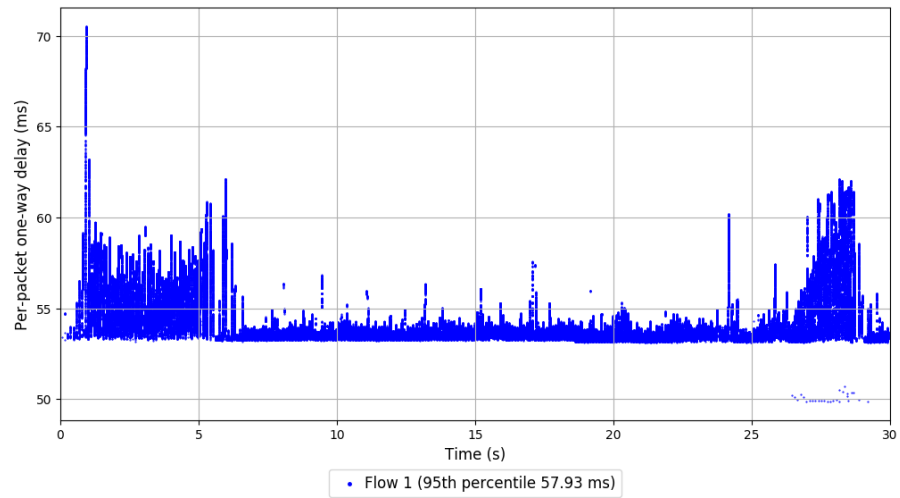
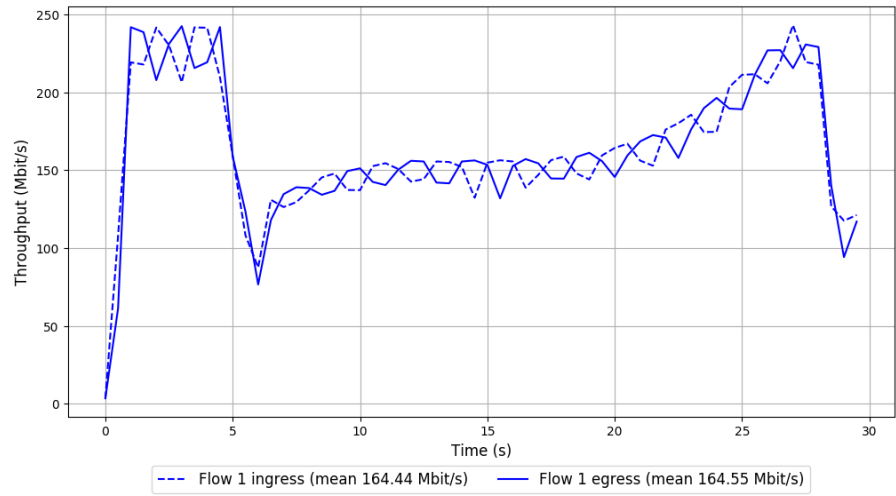
-- Flow 1:

Average throughput: 164.55 Mbit/s

95th percentile per-packet one-way delay: 57.928 ms

Loss rate: 0.28%

Run 10: Report of TCP Cubic — Data Link

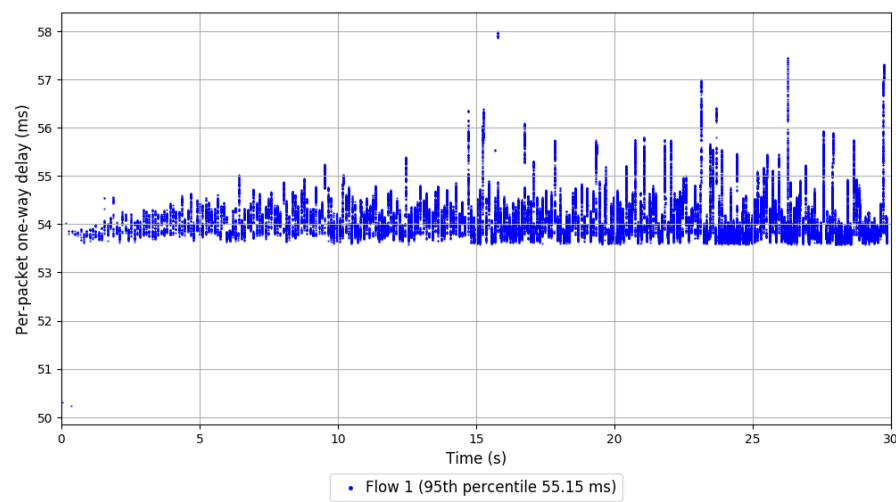
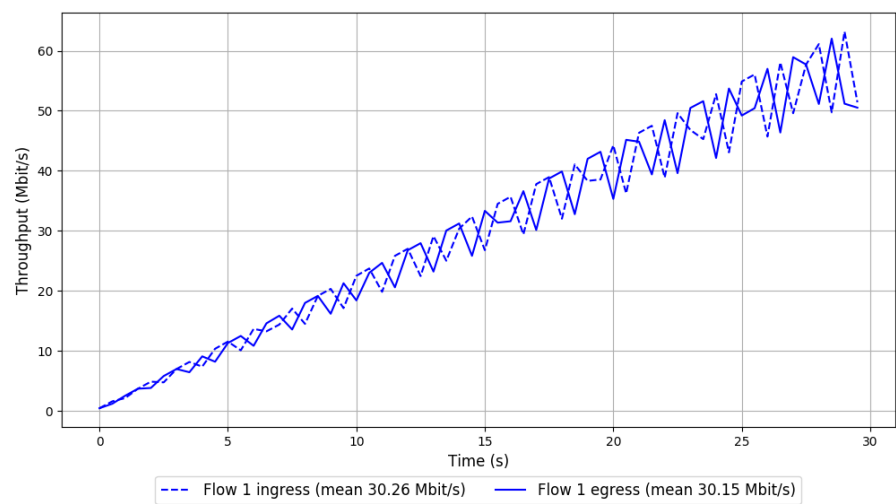


```
Run 1: Statistics of LEDBAT

Start at: 2018-03-06 01:25:05
End at: 2018-03-06 01:25:35

# Below is generated by plot.py at 2018-03-06 06:29:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 30.15 Mbit/s
95th percentile per-packet one-way delay: 55.153 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 30.15 Mbit/s
95th percentile per-packet one-way delay: 55.153 ms
Loss rate: 0.71%
```

Run 1: Report of LEDBAT — Data Link

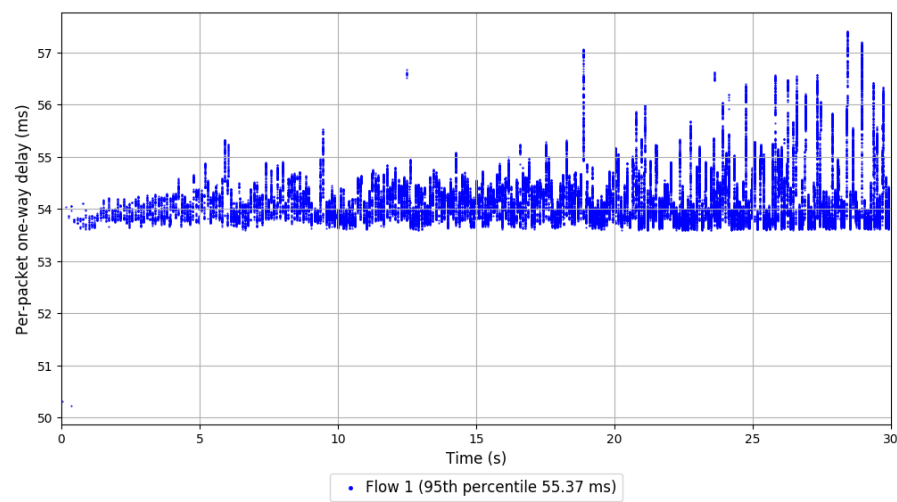
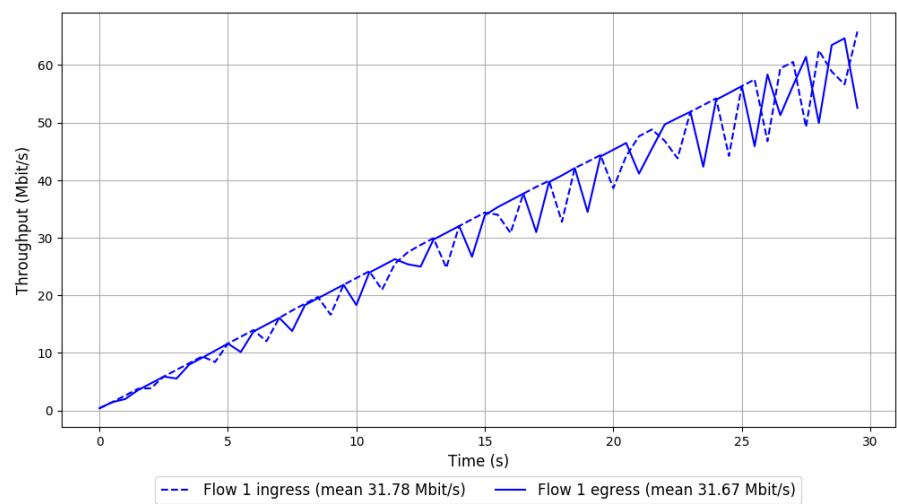


```
Run 2: Statistics of LEDBAT

Start at: 2018-03-06 01:39:20
End at: 2018-03-06 01:39:50

# Below is generated by plot.py at 2018-03-06 06:29:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 31.67 Mbit/s
95th percentile per-packet one-way delay: 55.367 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 31.67 Mbit/s
95th percentile per-packet one-way delay: 55.367 ms
Loss rate: 0.70%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-03-06 01:53:39

End at: 2018-03-06 01:54:09

Below is generated by plot.py at 2018-03-06 06:29:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.46 Mbit/s

95th percentile per-packet one-way delay: 55.913 ms

Loss rate: 0.70%

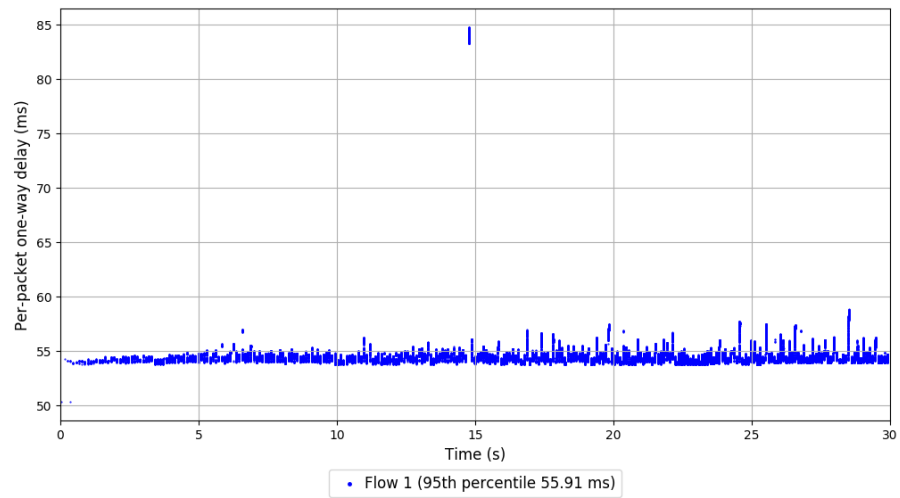
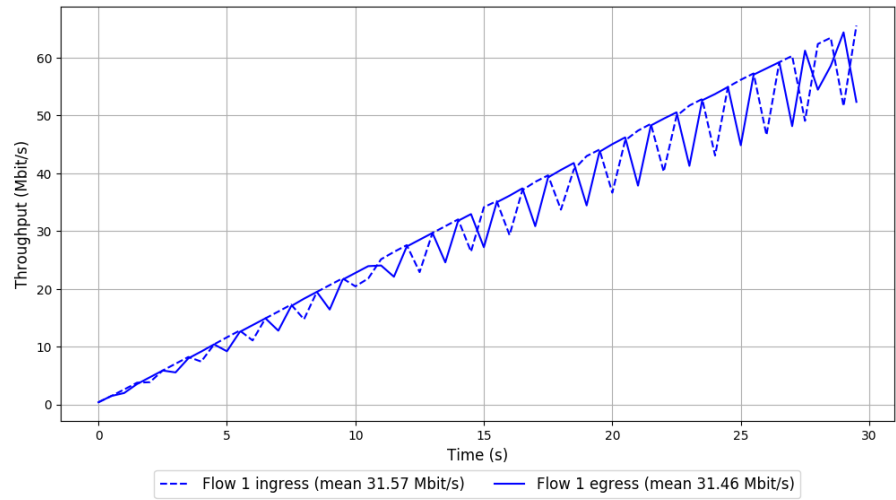
-- Flow 1:

Average throughput: 31.46 Mbit/s

95th percentile per-packet one-way delay: 55.913 ms

Loss rate: 0.70%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-03-06 02:08:11

End at: 2018-03-06 02:08:41

Below is generated by plot.py at 2018-03-06 06:29:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.86 Mbit/s

95th percentile per-packet one-way delay: 55.488 ms

Loss rate: 0.71%

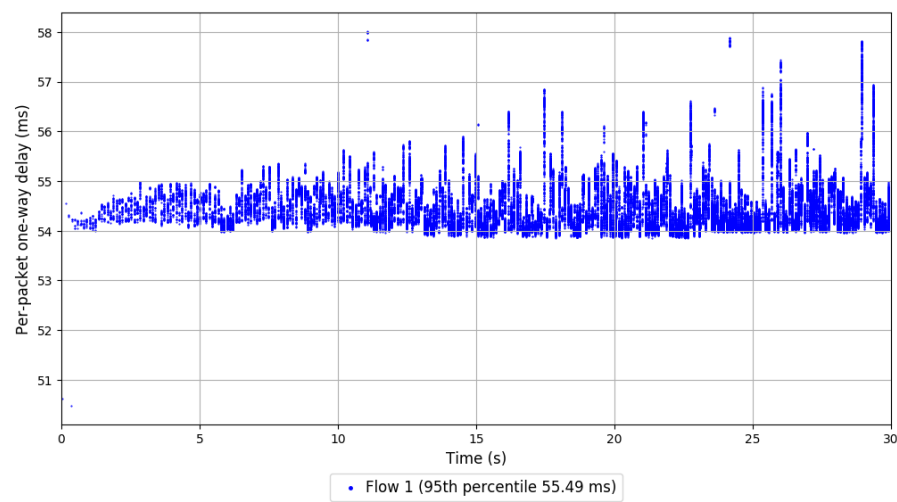
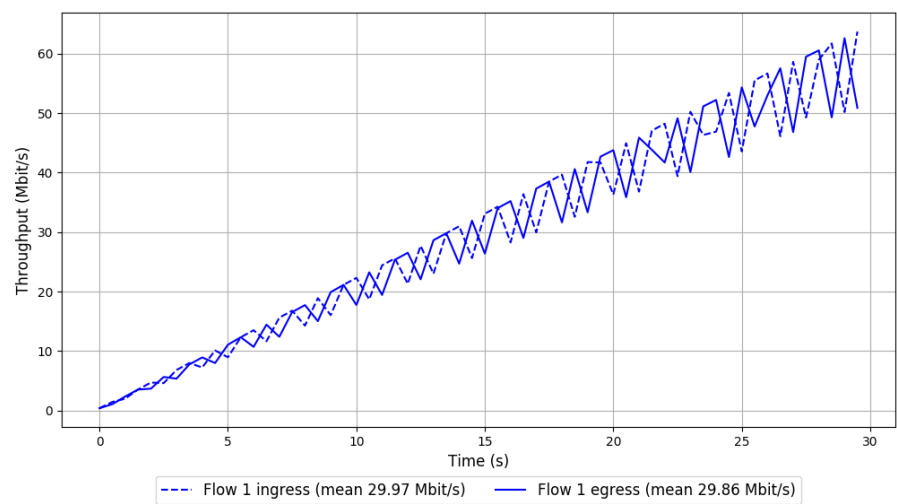
-- Flow 1:

Average throughput: 29.86 Mbit/s

95th percentile per-packet one-way delay: 55.488 ms

Loss rate: 0.71%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-03-06 02:22:28

End at: 2018-03-06 02:22:58

Below is generated by plot.py at 2018-03-06 06:29:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.64 Mbit/s

95th percentile per-packet one-way delay: 55.500 ms

Loss rate: 0.70%

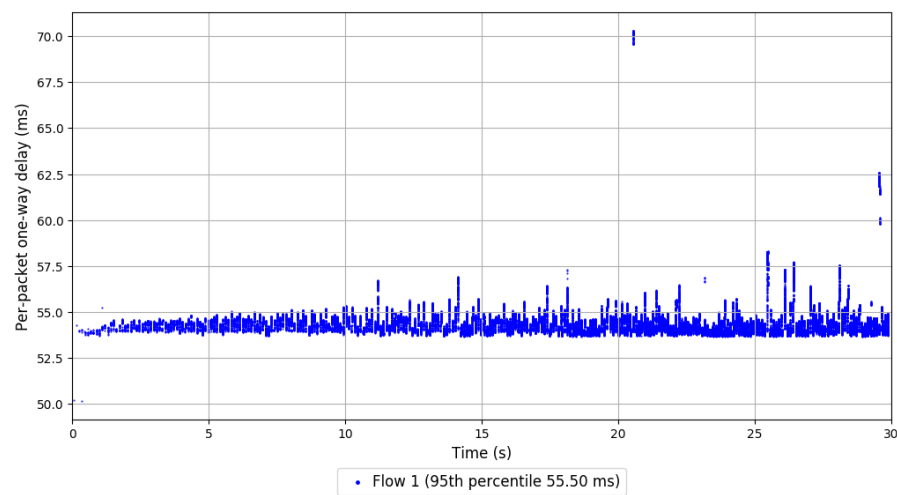
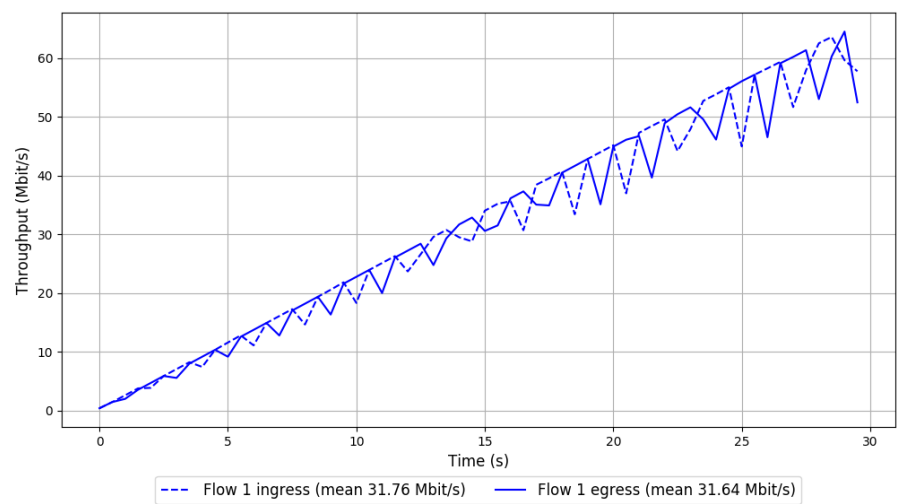
-- Flow 1:

Average throughput: 31.64 Mbit/s

95th percentile per-packet one-way delay: 55.500 ms

Loss rate: 0.70%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-03-06 02:37:09

End at: 2018-03-06 02:37:39

Below is generated by plot.py at 2018-03-06 06:29:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.08 Mbit/s

95th percentile per-packet one-way delay: 55.435 ms

Loss rate: 0.71%

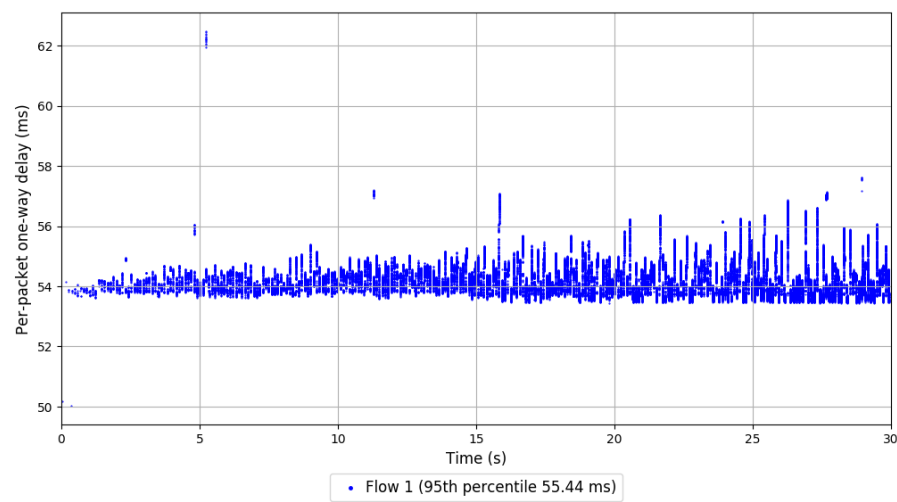
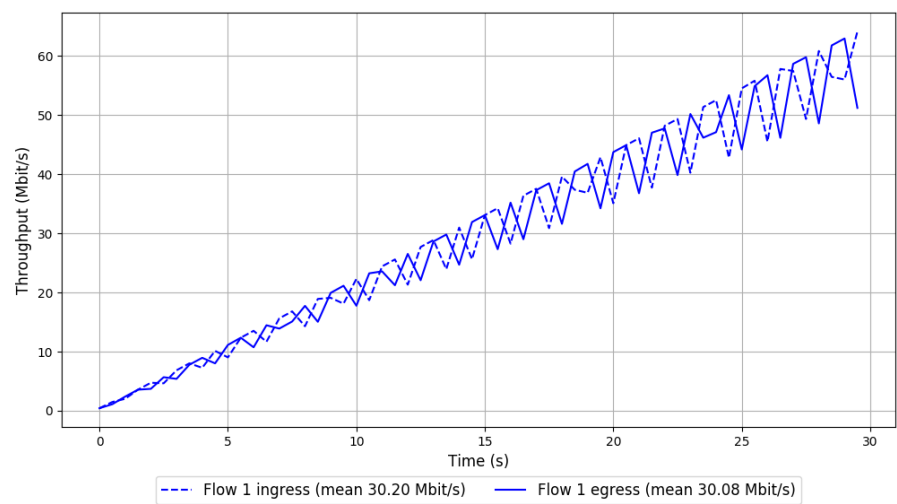
-- Flow 1:

Average throughput: 30.08 Mbit/s

95th percentile per-packet one-way delay: 55.435 ms

Loss rate: 0.71%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-03-06 02:51:25

End at: 2018-03-06 02:51:55

Below is generated by plot.py at 2018-03-06 06:29:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.21 Mbit/s

95th percentile per-packet one-way delay: 54.936 ms

Loss rate: 0.72%

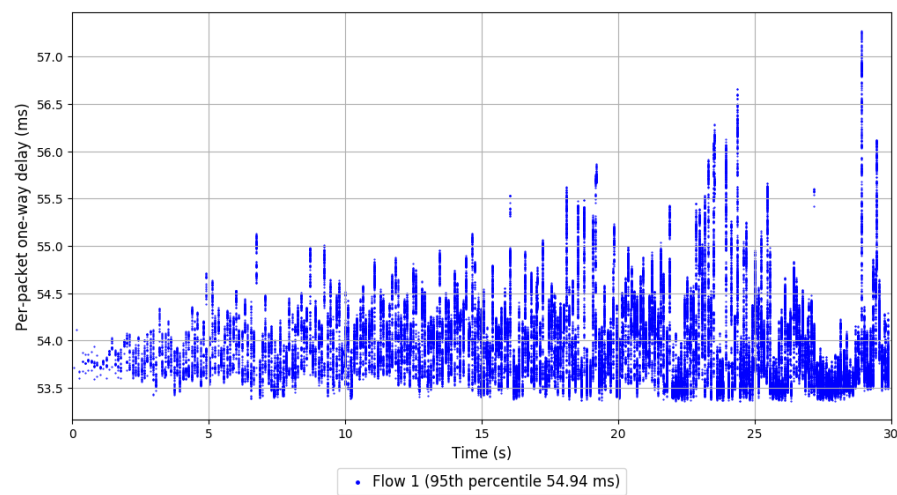
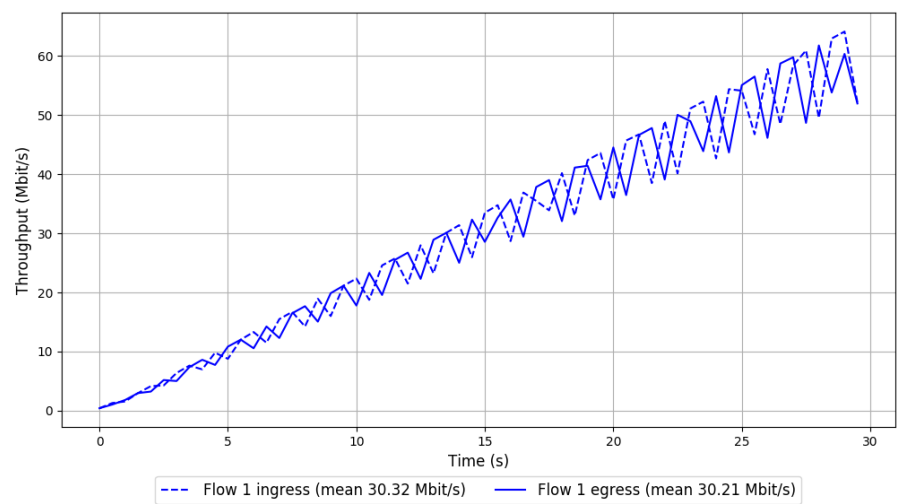
-- Flow 1:

Average throughput: 30.21 Mbit/s

95th percentile per-packet one-way delay: 54.936 ms

Loss rate: 0.72%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-03-06 03:05:47

End at: 2018-03-06 03:06:17

Below is generated by plot.py at 2018-03-06 06:29:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.29 Mbit/s

95th percentile per-packet one-way delay: 55.166 ms

Loss rate: 0.71%

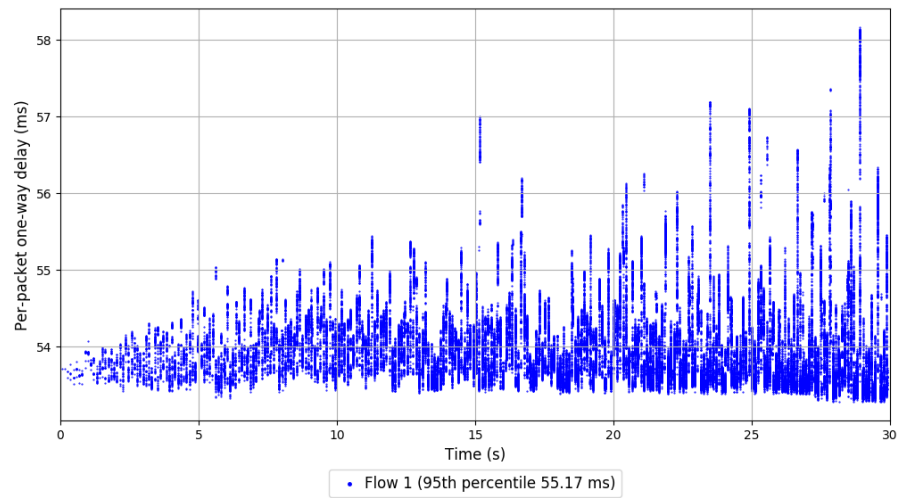
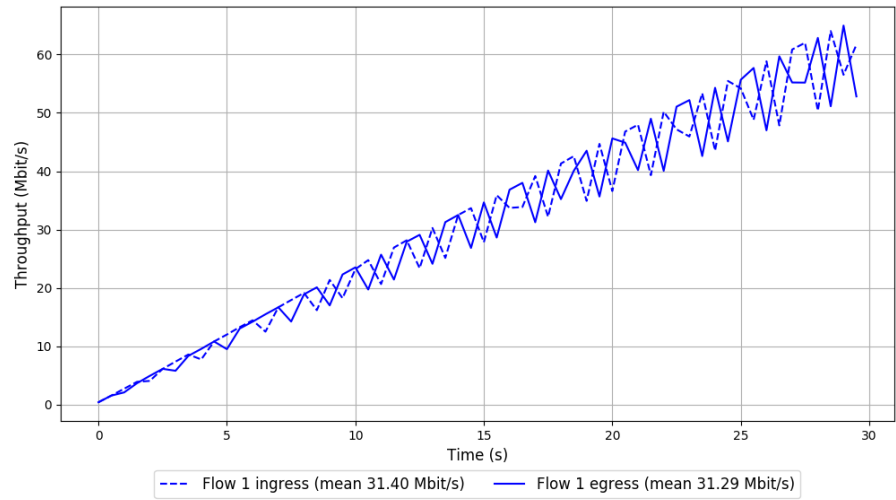
-- Flow 1:

Average throughput: 31.29 Mbit/s

95th percentile per-packet one-way delay: 55.166 ms

Loss rate: 0.71%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-03-06 03:20:29

End at: 2018-03-06 03:20:59

Below is generated by plot.py at 2018-03-06 06:29:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.69 Mbit/s

95th percentile per-packet one-way delay: 55.007 ms

Loss rate: 0.57%

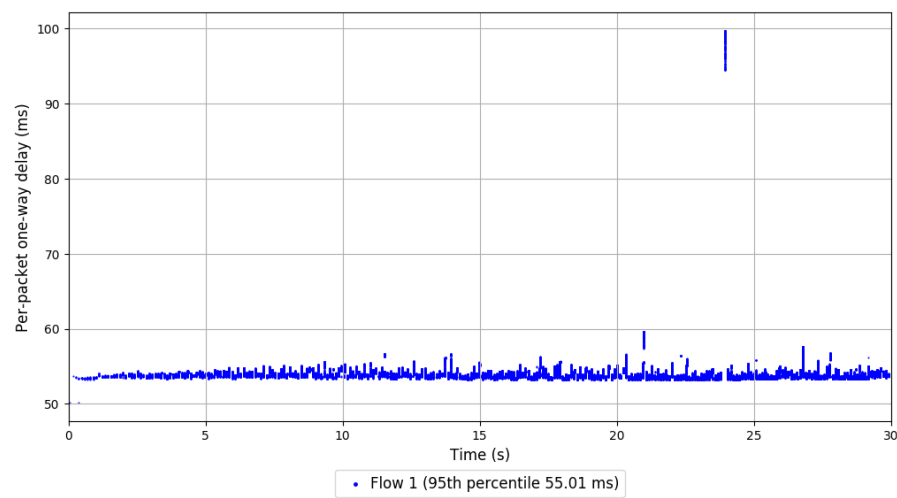
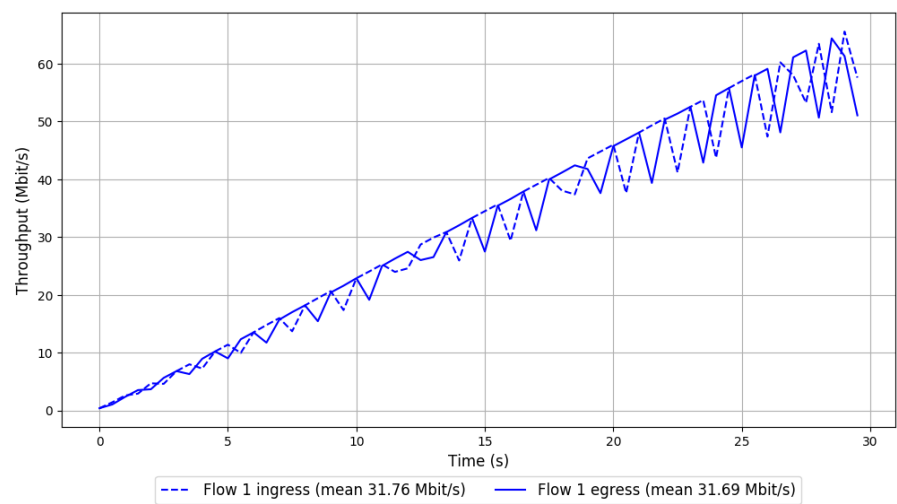
-- Flow 1:

Average throughput: 31.69 Mbit/s

95th percentile per-packet one-way delay: 55.007 ms

Loss rate: 0.57%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-03-06 03:35:10

End at: 2018-03-06 03:35:40

Below is generated by plot.py at 2018-03-06 06:29:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.55 Mbit/s

95th percentile per-packet one-way delay: 54.841 ms

Loss rate: 0.71%

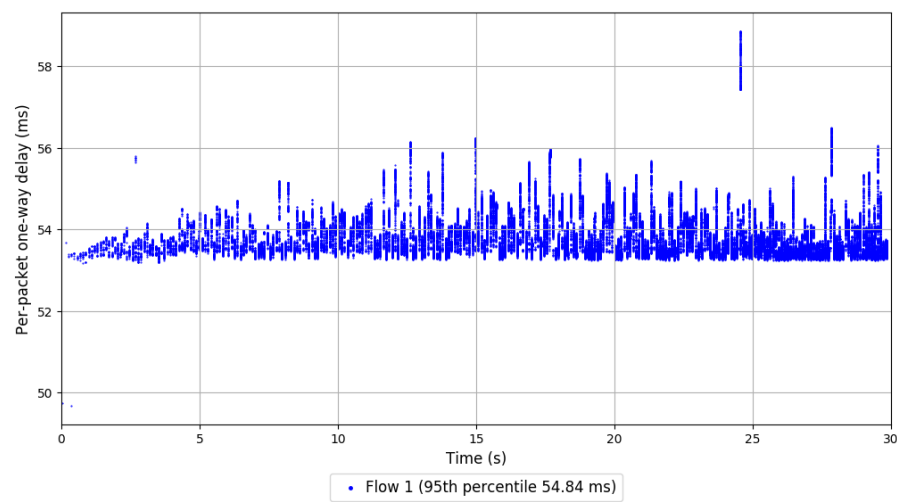
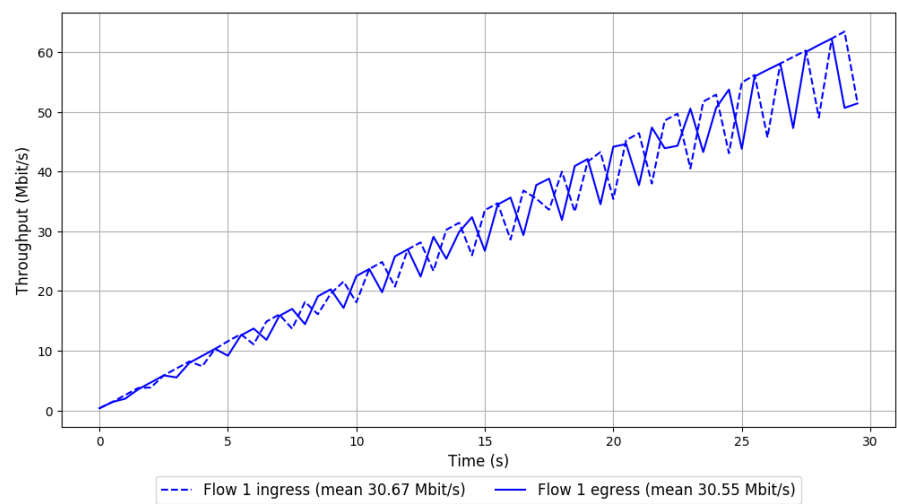
-- Flow 1:

Average throughput: 30.55 Mbit/s

95th percentile per-packet one-way delay: 54.841 ms

Loss rate: 0.71%

Run 10: Report of LEDBAT — Data Link

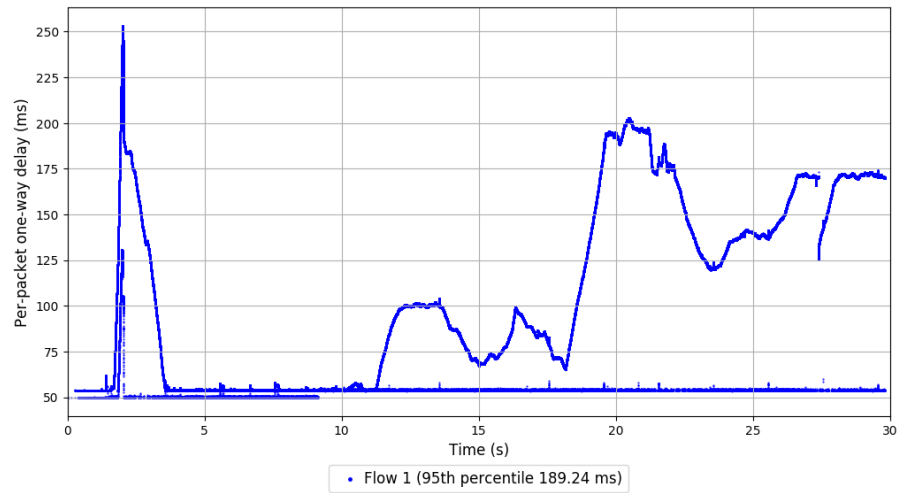
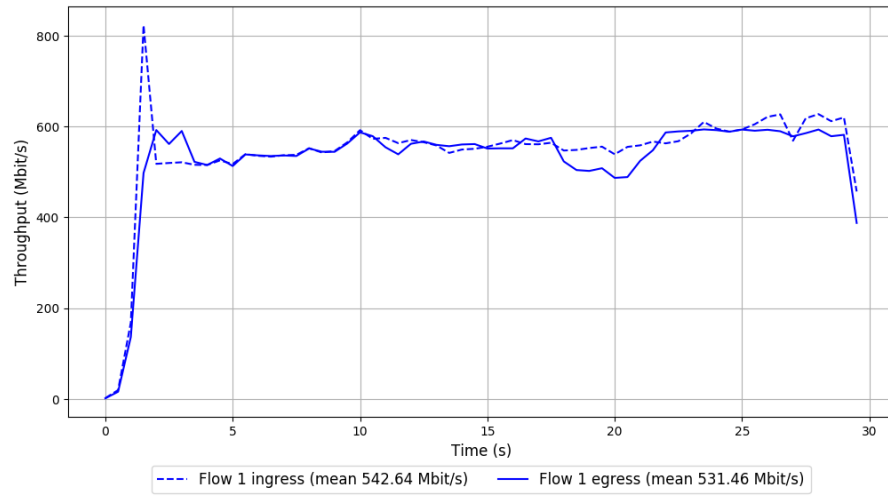


```
Run 1: Statistics of PCC

Start at: 2018-03-06 01:30:15
End at: 2018-03-06 01:30:45

# Below is generated by plot.py at 2018-03-06 06:36:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 531.46 Mbit/s
95th percentile per-packet one-way delay: 189.244 ms
Loss rate: 2.39%
-- Flow 1:
Average throughput: 531.46 Mbit/s
95th percentile per-packet one-way delay: 189.244 ms
Loss rate: 2.39%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-03-06 01:44:34

End at: 2018-03-06 01:45:04

Below is generated by plot.py at 2018-03-06 06:36:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 517.69 Mbit/s

95th percentile per-packet one-way delay: 93.366 ms

Loss rate: 0.36%

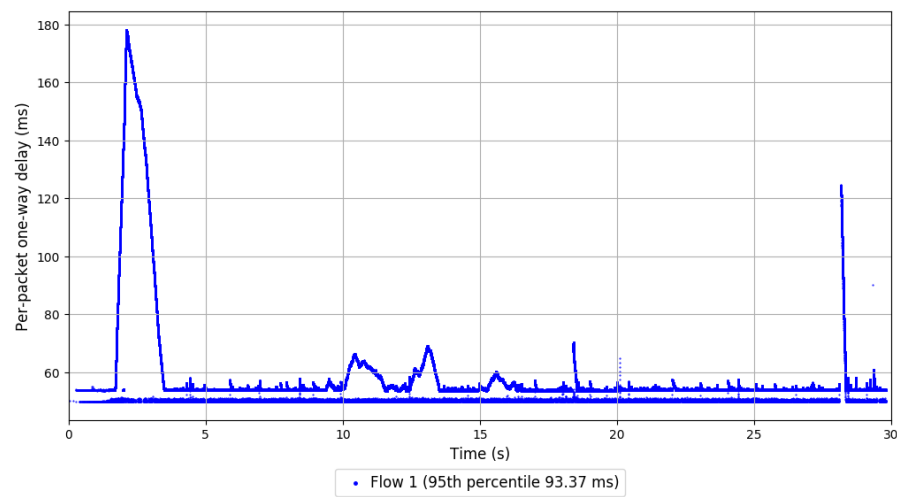
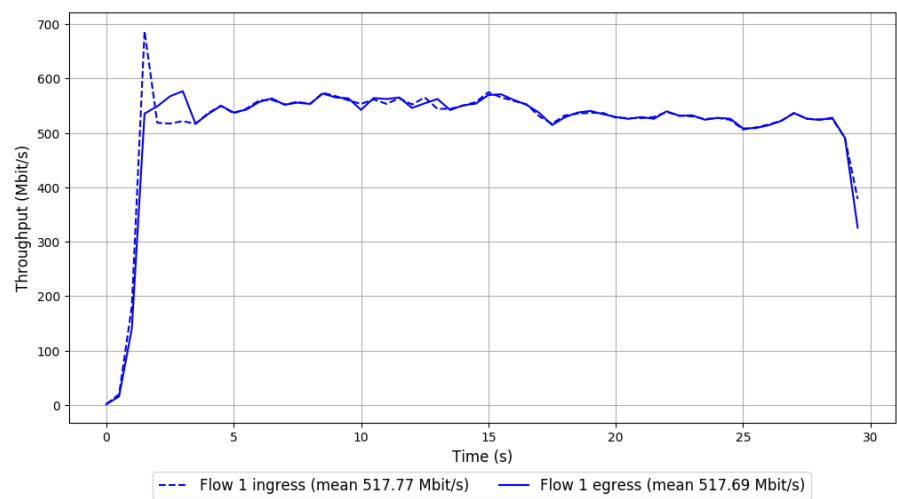
-- Flow 1:

Average throughput: 517.69 Mbit/s

95th percentile per-packet one-way delay: 93.366 ms

Loss rate: 0.36%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-03-06 01:59:08

End at: 2018-03-06 01:59:38

Below is generated by plot.py at 2018-03-06 06:36:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 512.09 Mbit/s

95th percentile per-packet one-way delay: 69.596 ms

Loss rate: 0.61%

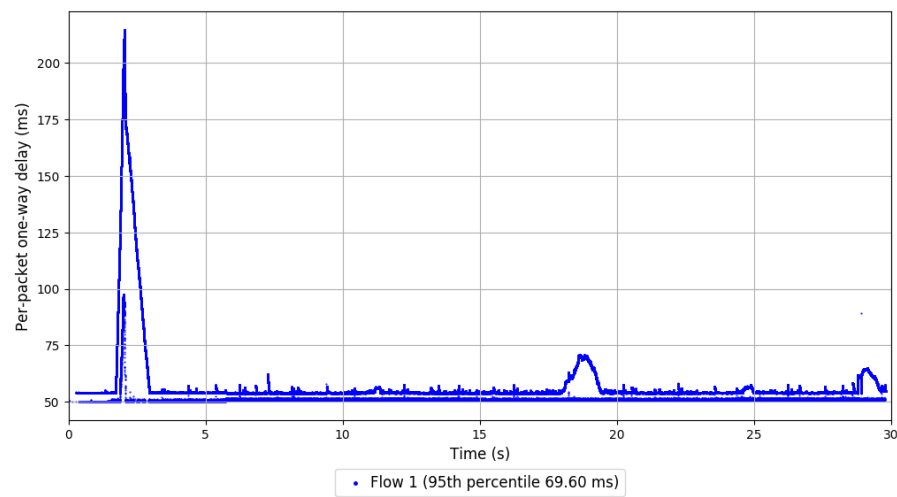
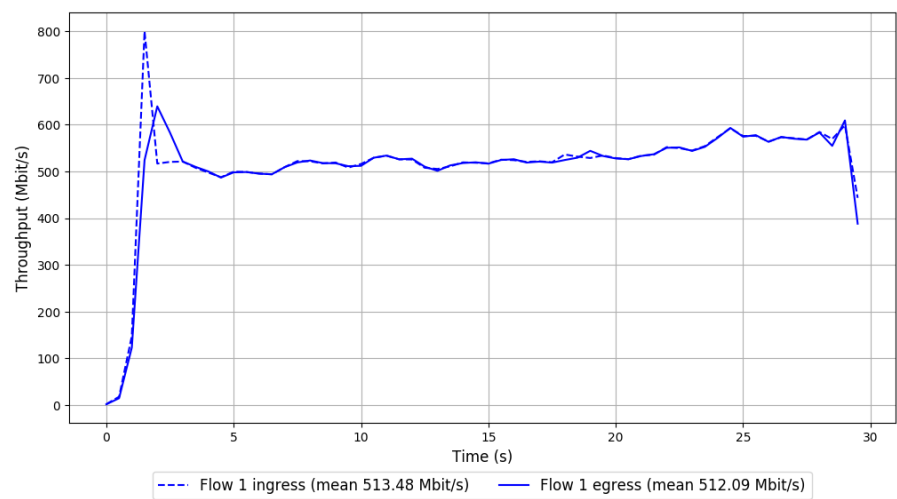
-- Flow 1:

Average throughput: 512.09 Mbit/s

95th percentile per-packet one-way delay: 69.596 ms

Loss rate: 0.61%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-03-06 02:13:23

End at: 2018-03-06 02:13:53

Below is generated by plot.py at 2018-03-06 06:36:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 521.17 Mbit/s

95th percentile per-packet one-way delay: 87.405 ms

Loss rate: 0.37%

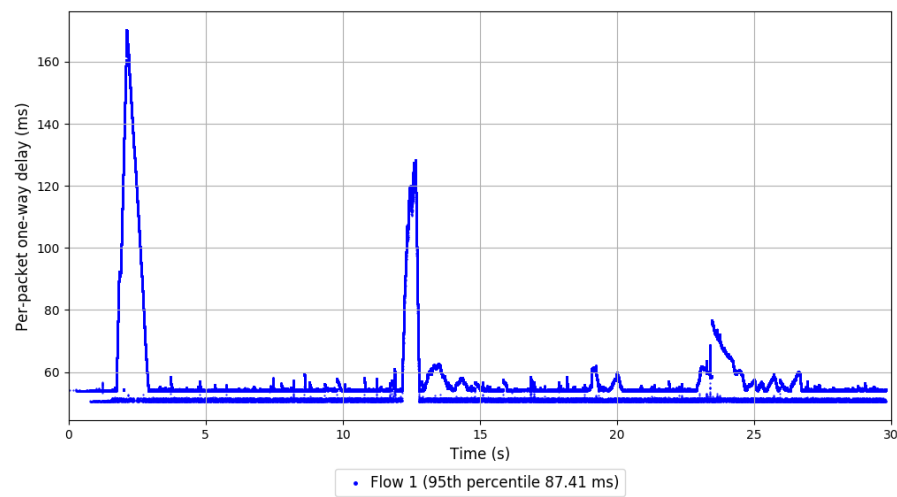
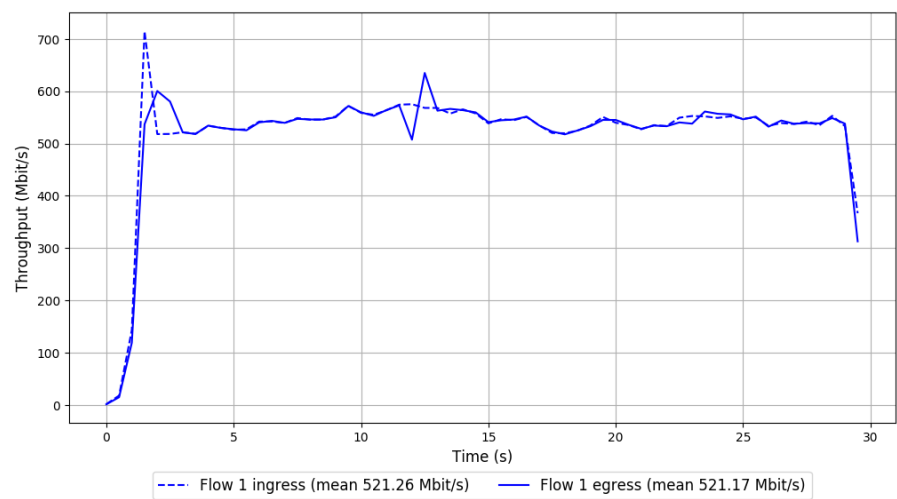
-- Flow 1:

Average throughput: 521.17 Mbit/s

95th percentile per-packet one-way delay: 87.405 ms

Loss rate: 0.37%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-03-06 02:28:00

End at: 2018-03-06 02:28:30

Below is generated by plot.py at 2018-03-06 06:36:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 445.66 Mbit/s

95th percentile per-packet one-way delay: 102.723 ms

Loss rate: 0.41%

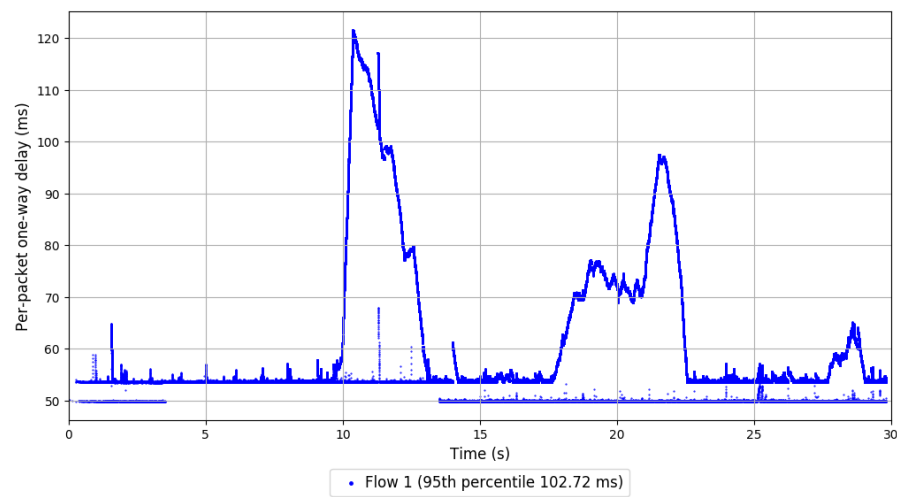
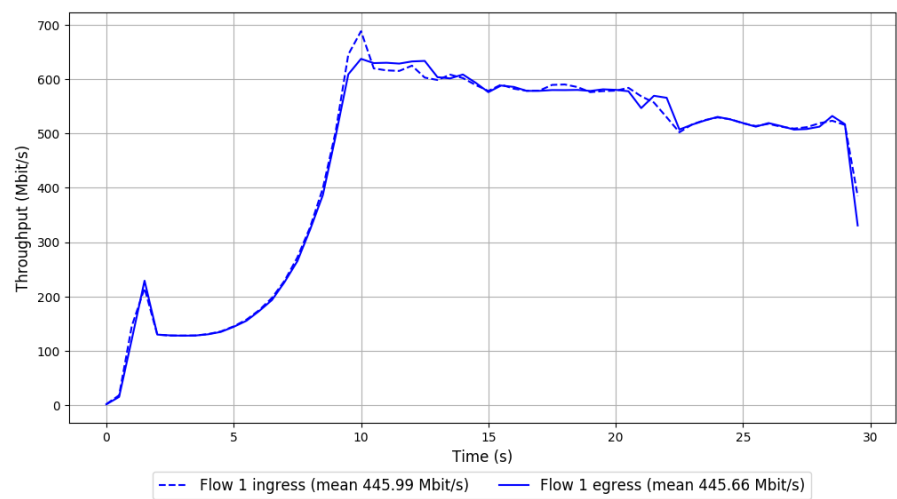
-- Flow 1:

Average throughput: 445.66 Mbit/s

95th percentile per-packet one-way delay: 102.723 ms

Loss rate: 0.41%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-03-06 02:42:32

End at: 2018-03-06 02:43:02

Below is generated by plot.py at 2018-03-06 06:36:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 345.71 Mbit/s

95th percentile per-packet one-way delay: 57.303 ms

Loss rate: 0.46%

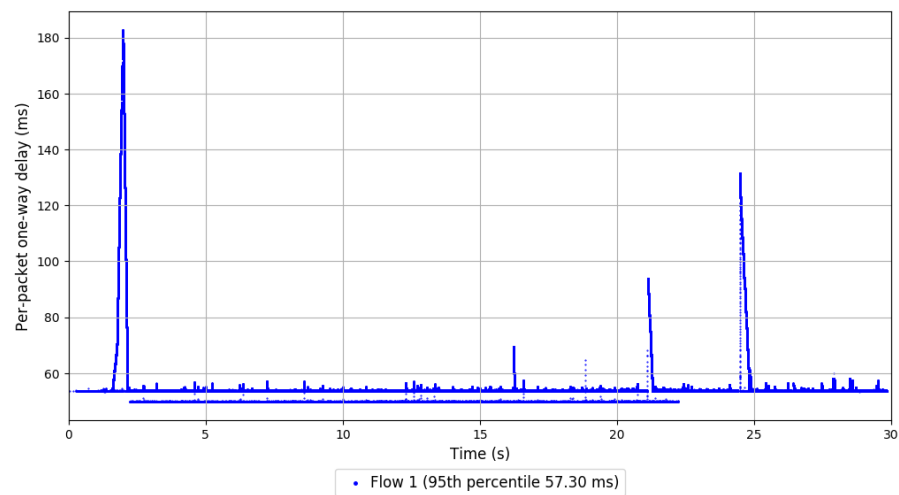
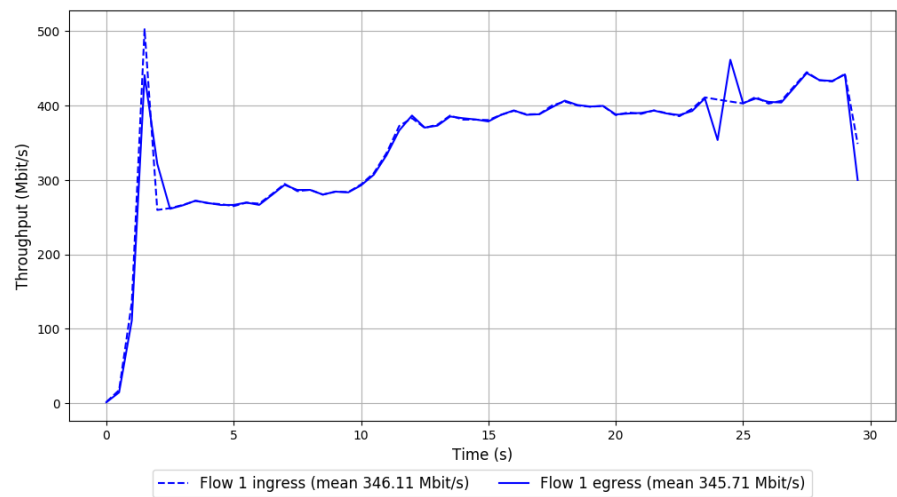
-- Flow 1:

Average throughput: 345.71 Mbit/s

95th percentile per-packet one-way delay: 57.303 ms

Loss rate: 0.46%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-03-06 02:56:45

End at: 2018-03-06 02:57:15

Below is generated by plot.py at 2018-03-06 06:37:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 497.01 Mbit/s

95th percentile per-packet one-way delay: 167.689 ms

Loss rate: 0.73%

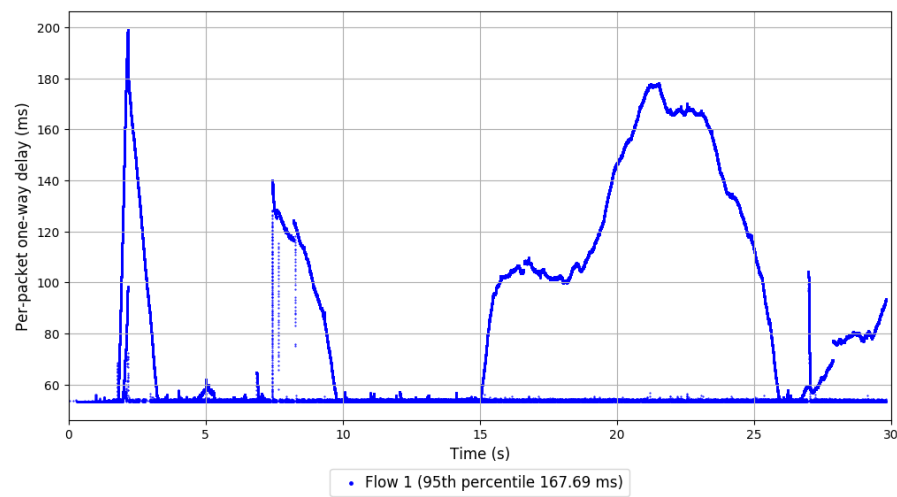
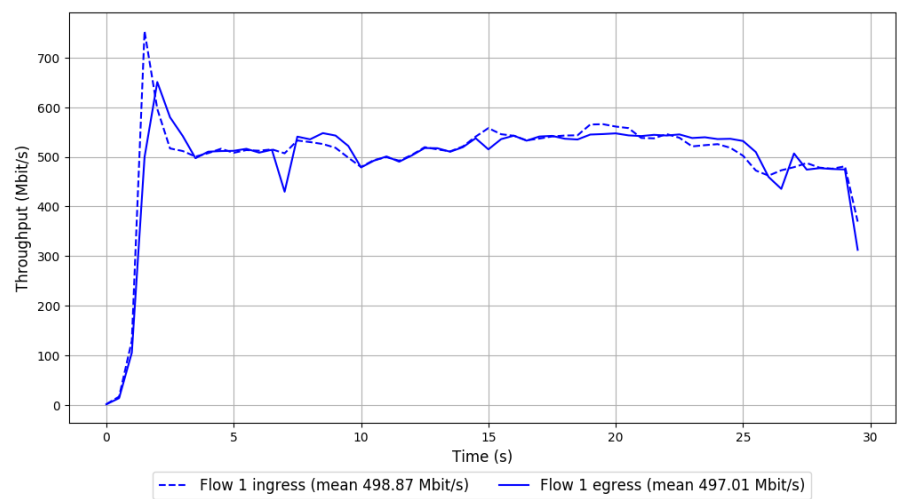
-- Flow 1:

Average throughput: 497.01 Mbit/s

95th percentile per-packet one-way delay: 167.689 ms

Loss rate: 0.73%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-03-06 03:11:24

End at: 2018-03-06 03:11:54

Below is generated by plot.py at 2018-03-06 06:37:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 494.50 Mbit/s

95th percentile per-packet one-way delay: 149.233 ms

Loss rate: 0.69%

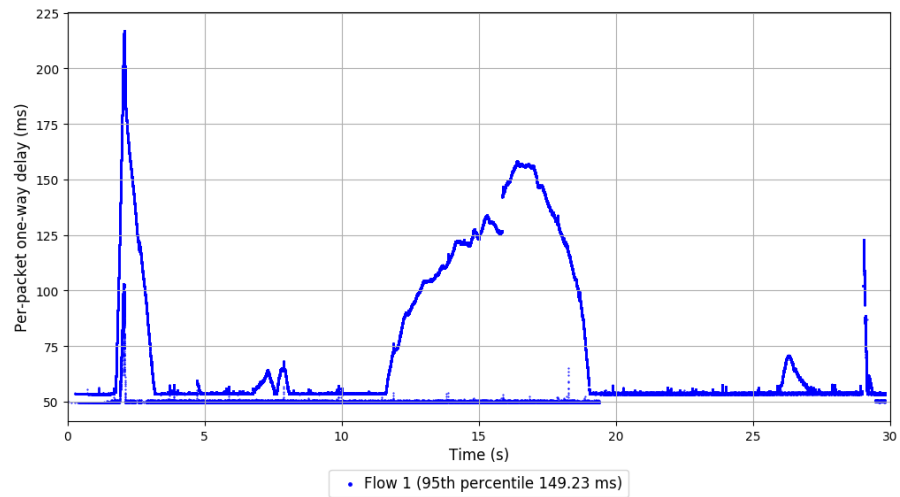
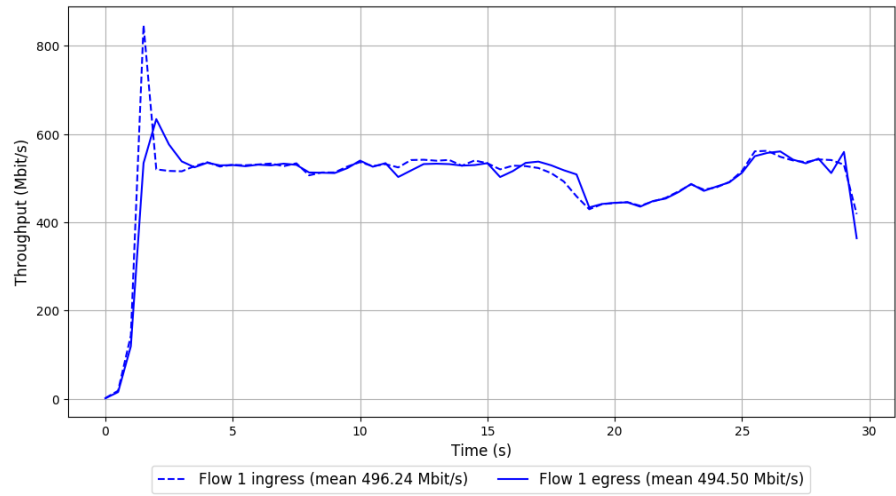
-- Flow 1:

Average throughput: 494.50 Mbit/s

95th percentile per-packet one-way delay: 149.233 ms

Loss rate: 0.69%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-03-06 03:25:58

End at: 2018-03-06 03:26:28

Below is generated by plot.py at 2018-03-06 06:44:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 534.56 Mbit/s

95th percentile per-packet one-way delay: 176.086 ms

Loss rate: 1.14%

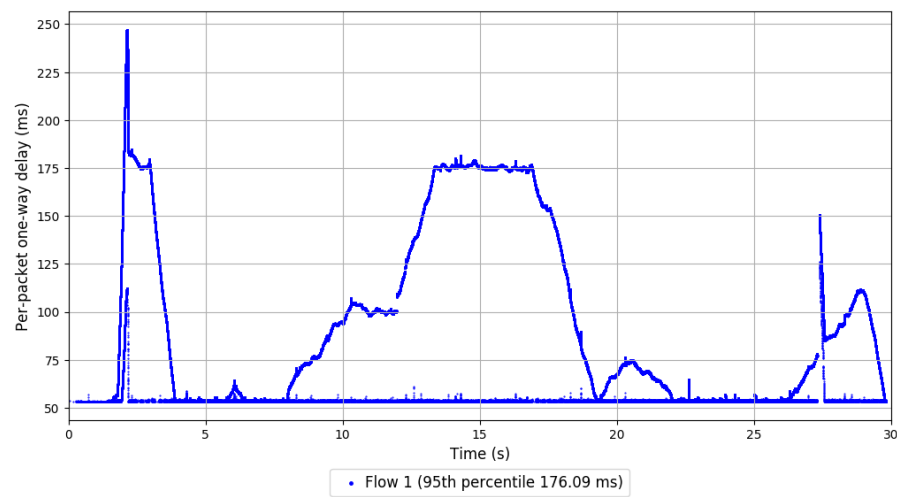
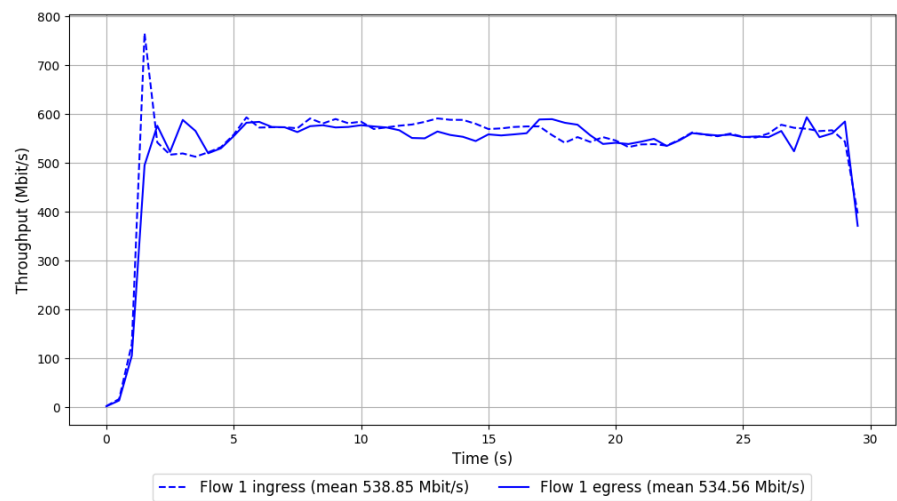
-- Flow 1:

Average throughput: 534.56 Mbit/s

95th percentile per-packet one-way delay: 176.086 ms

Loss rate: 1.14%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-03-06 03:40:23

End at: 2018-03-06 03:40:53

Below is generated by plot.py at 2018-03-06 06:44:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 484.48 Mbit/s

95th percentile per-packet one-way delay: 85.668 ms

Loss rate: 0.60%

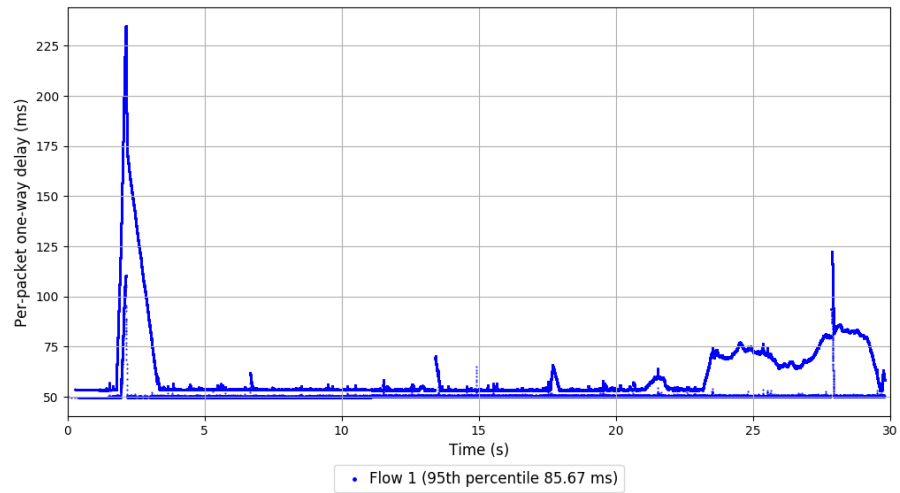
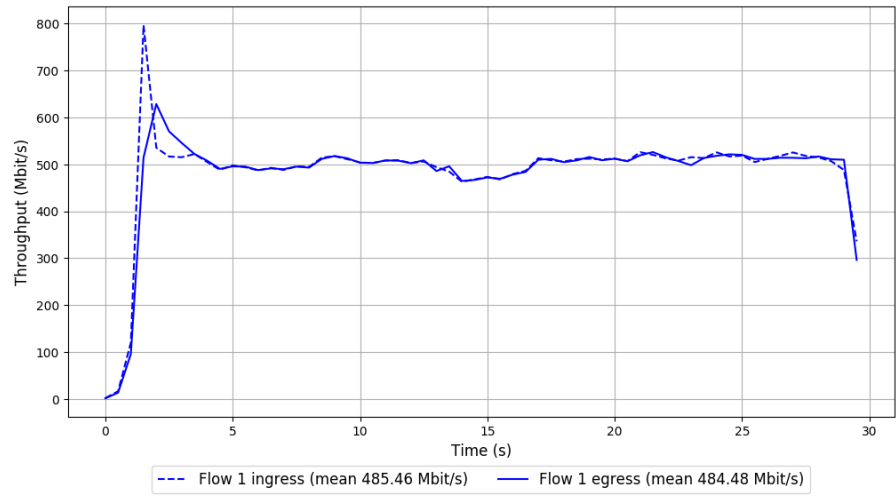
-- Flow 1:

Average throughput: 484.48 Mbit/s

95th percentile per-packet one-way delay: 85.668 ms

Loss rate: 0.60%

Run 10: Report of PCC — Data Link

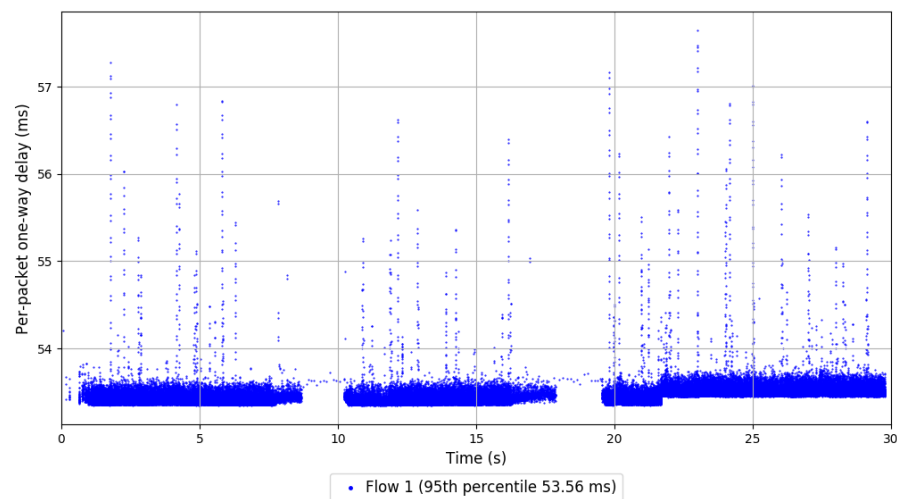
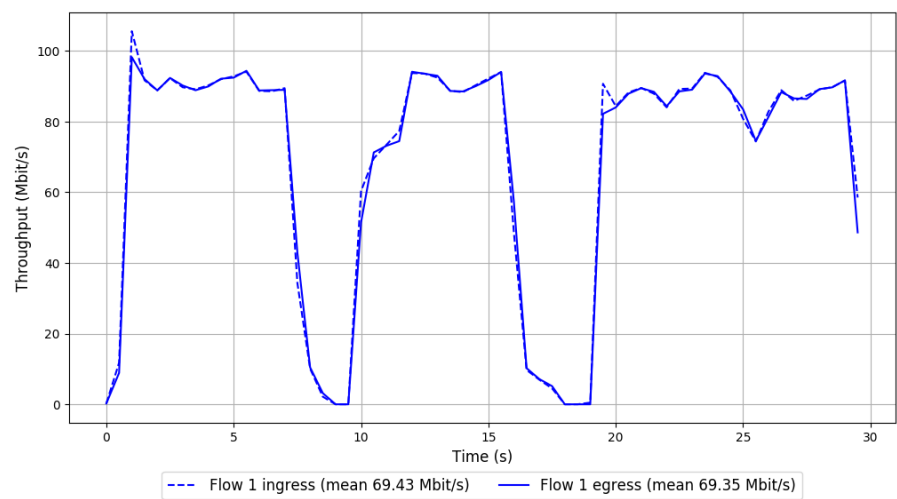


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-03-06 01:27:42
End at: 2018-03-06 01:28:12

# Below is generated by plot.py at 2018-03-06 06:44:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.35 Mbit/s
95th percentile per-packet one-way delay: 53.560 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 69.35 Mbit/s
95th percentile per-packet one-way delay: 53.560 ms
Loss rate: 0.47%
```

Run 1: Report of QUIC Cubic — Data Link

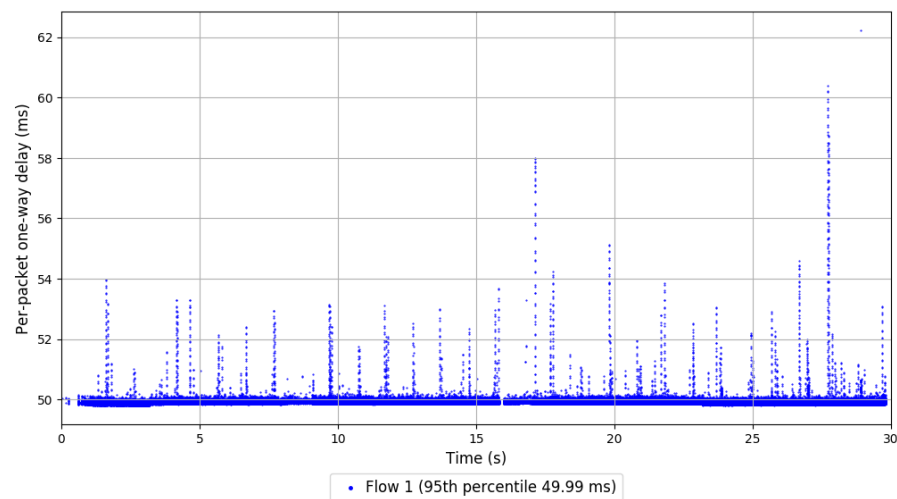
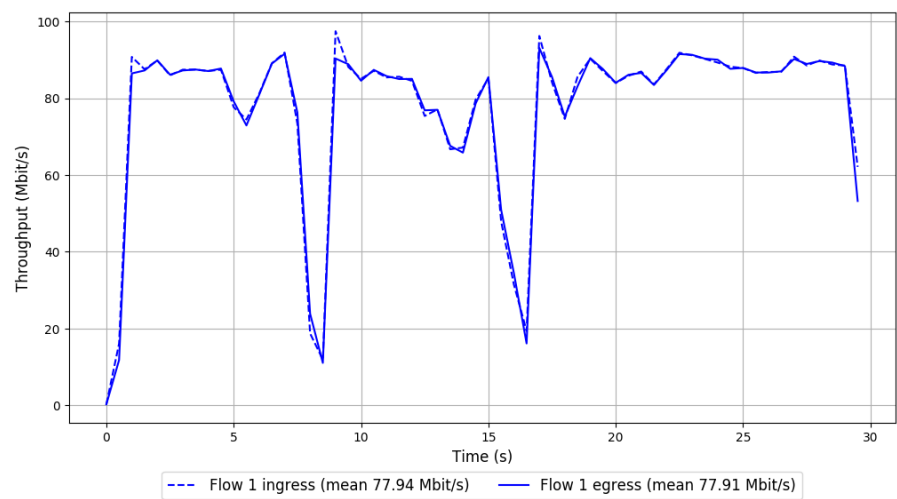


```
Run 2: Statistics of QUIC Cubic

Start at: 2018-03-06 01:42:01
End at: 2018-03-06 01:42:31

# Below is generated by plot.py at 2018-03-06 06:44:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.91 Mbit/s
95th percentile per-packet one-way delay: 49.990 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 77.91 Mbit/s
95th percentile per-packet one-way delay: 49.990 ms
Loss rate: 0.38%
```

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-03-06 01:56:21

End at: 2018-03-06 01:56:51

Below is generated by plot.py at 2018-03-06 06:44:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.44 Mbit/s

95th percentile per-packet one-way delay: 53.883 ms

Loss rate: 0.42%

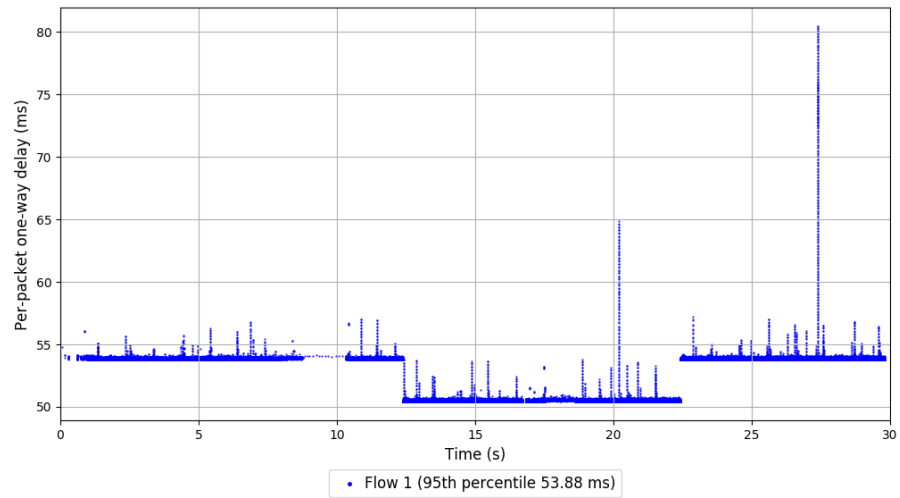
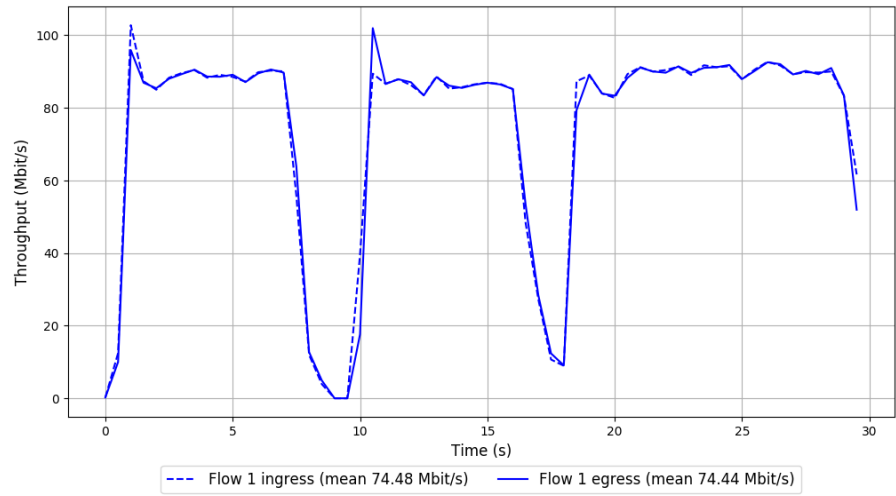
-- Flow 1:

Average throughput: 74.44 Mbit/s

95th percentile per-packet one-way delay: 53.883 ms

Loss rate: 0.42%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-03-06 02:10:50

End at: 2018-03-06 02:11:21

Below is generated by plot.py at 2018-03-06 06:44:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.70 Mbit/s

95th percentile per-packet one-way delay: 53.953 ms

Loss rate: 0.50%

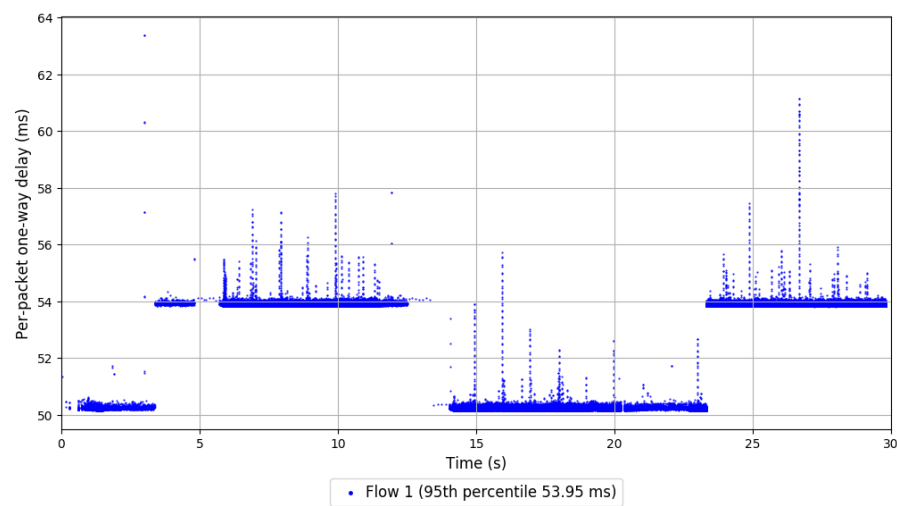
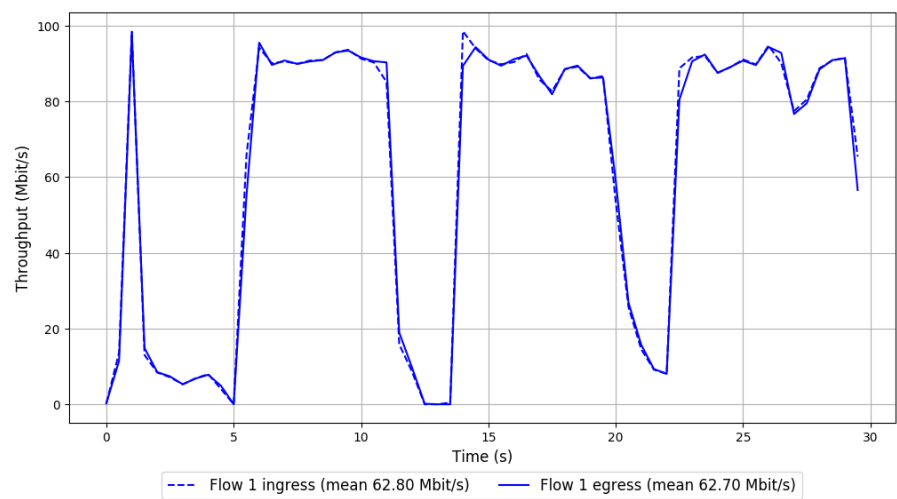
-- Flow 1:

Average throughput: 62.70 Mbit/s

95th percentile per-packet one-way delay: 53.953 ms

Loss rate: 0.50%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-03-06 02:25:09

End at: 2018-03-06 02:25:39

Below is generated by plot.py at 2018-03-06 06:44:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.00 Mbit/s

95th percentile per-packet one-way delay: 50.176 ms

Loss rate: 0.44%

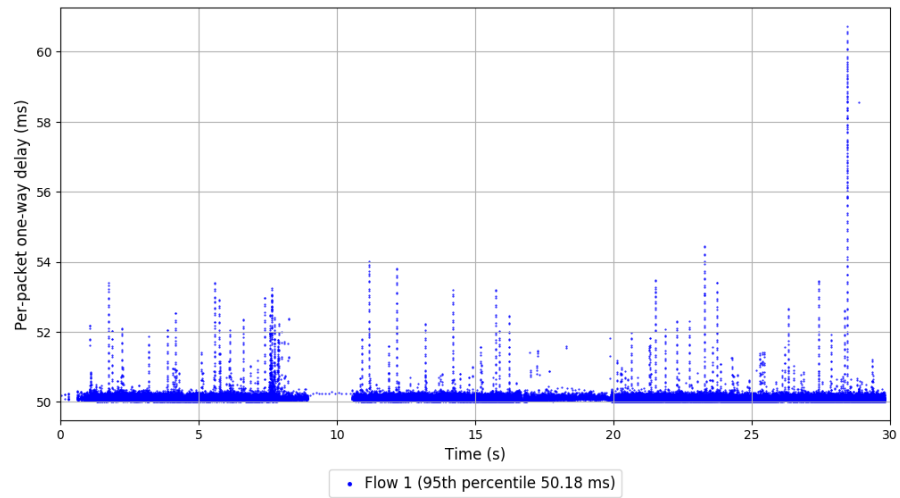
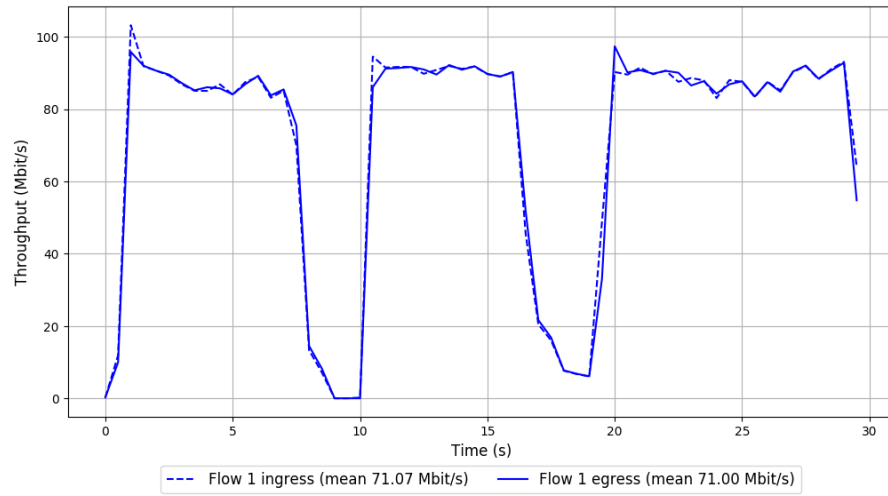
-- Flow 1:

Average throughput: 71.00 Mbit/s

95th percentile per-packet one-way delay: 50.176 ms

Loss rate: 0.44%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-03-06 02:39:53

End at: 2018-03-06 02:40:23

Below is generated by plot.py at 2018-03-06 06:44:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.07 Mbit/s

95th percentile per-packet one-way delay: 53.572 ms

Loss rate: 0.45%

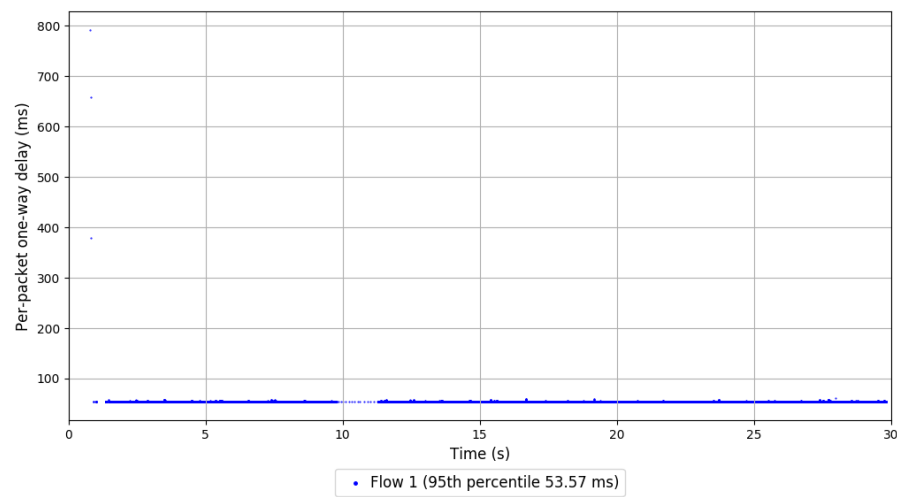
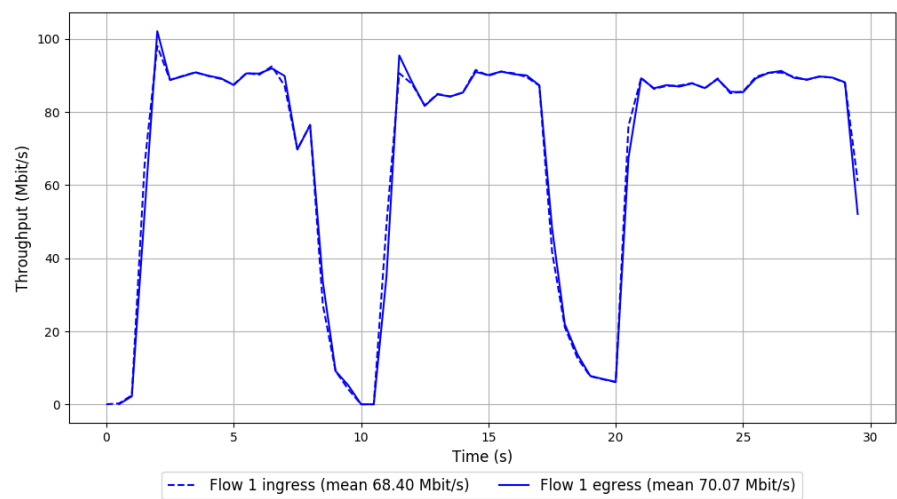
-- Flow 1:

Average throughput: 70.07 Mbit/s

95th percentile per-packet one-way delay: 53.572 ms

Loss rate: 0.45%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-03-06 02:54:07

End at: 2018-03-06 02:54:37

Below is generated by plot.py at 2018-03-06 06:44:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.53 Mbit/s

95th percentile per-packet one-way delay: 53.463 ms

Loss rate: 0.40%

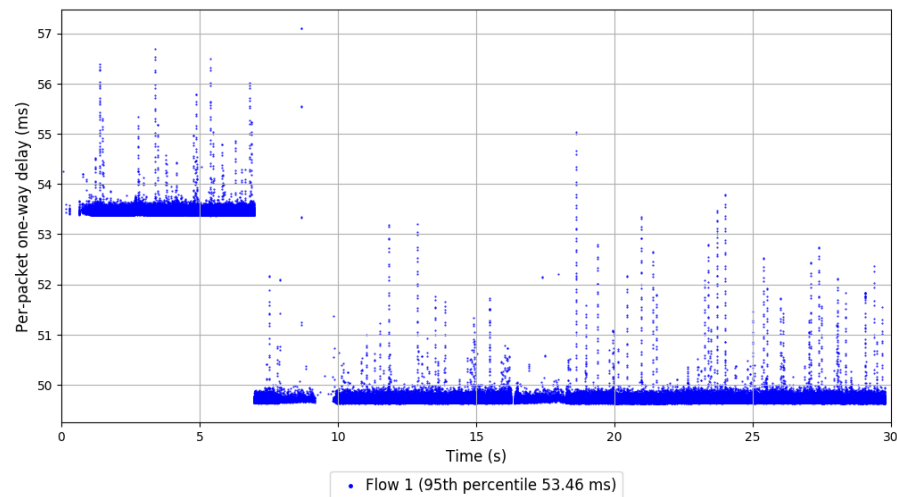
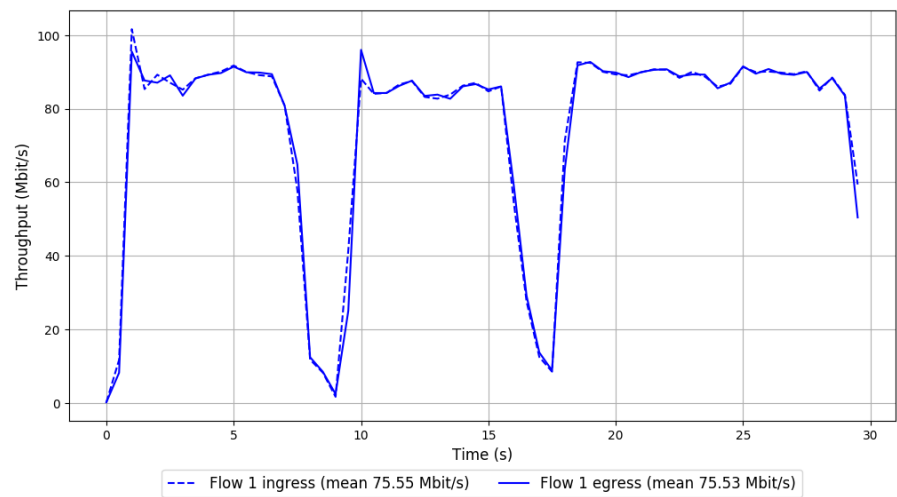
-- Flow 1:

Average throughput: 75.53 Mbit/s

95th percentile per-packet one-way delay: 53.463 ms

Loss rate: 0.40%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-03-06 03:08:33

End at: 2018-03-06 03:09:03

Below is generated by plot.py at 2018-03-06 06:44:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.12 Mbit/s

95th percentile per-packet one-way delay: 53.387 ms

Loss rate: 0.43%

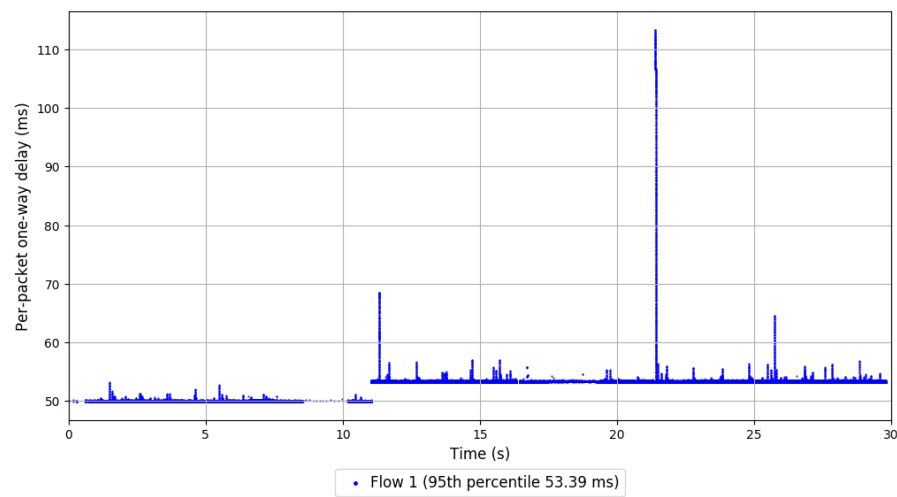
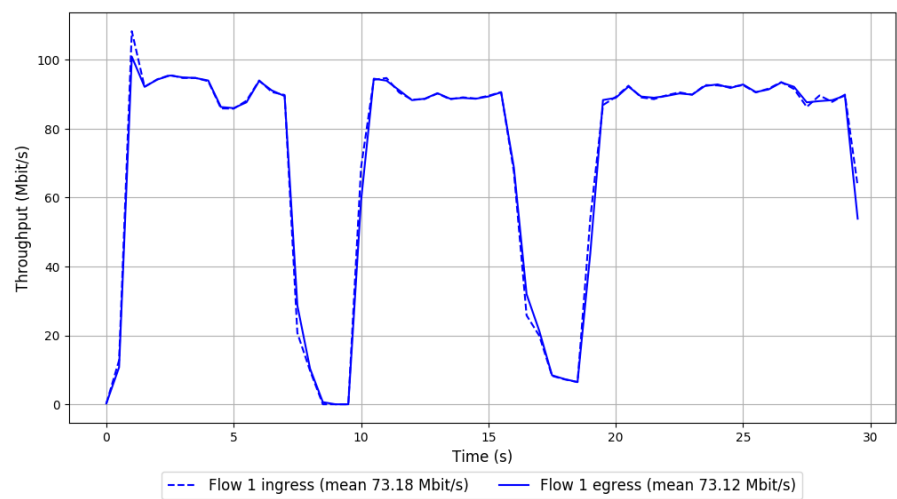
-- Flow 1:

Average throughput: 73.12 Mbit/s

95th percentile per-packet one-way delay: 53.387 ms

Loss rate: 0.43%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-03-06 03:23:08

End at: 2018-03-06 03:23:38

Below is generated by plot.py at 2018-03-06 06:44:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.40 Mbit/s

95th percentile per-packet one-way delay: 50.212 ms

Loss rate: 0.41%

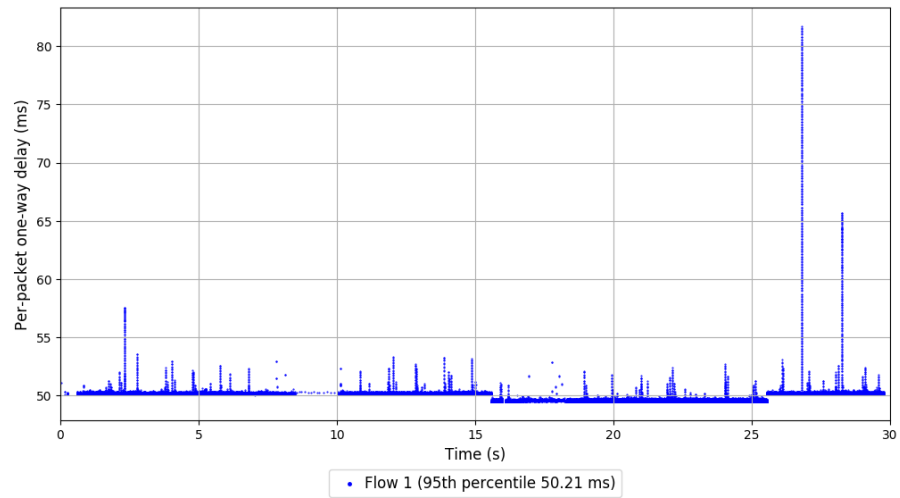
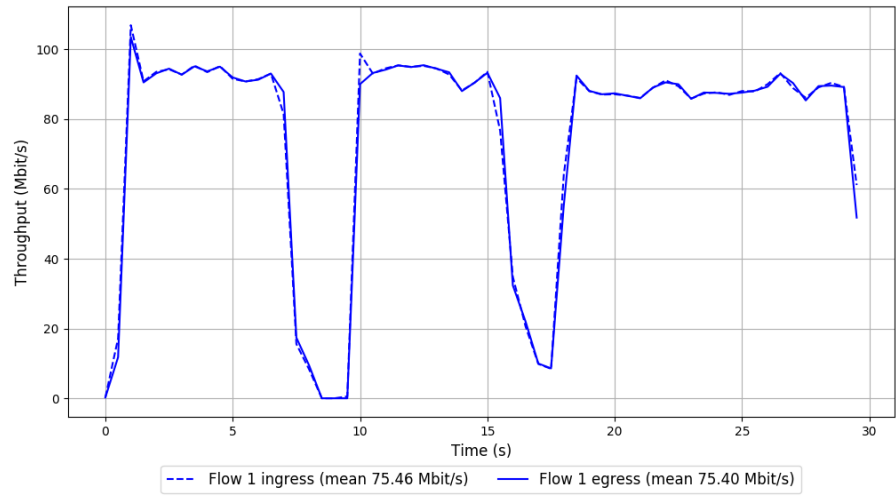
-- Flow 1:

Average throughput: 75.40 Mbit/s

95th percentile per-packet one-way delay: 50.212 ms

Loss rate: 0.41%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-03-06 03:37:50

End at: 2018-03-06 03:38:20

Below is generated by plot.py at 2018-03-06 06:44:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.13 Mbit/s

95th percentile per-packet one-way delay: 53.259 ms

Loss rate: 0.47%

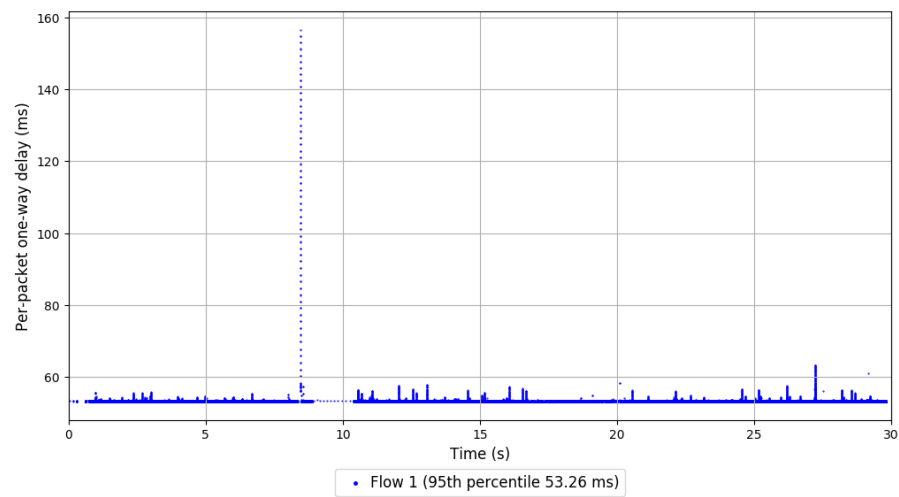
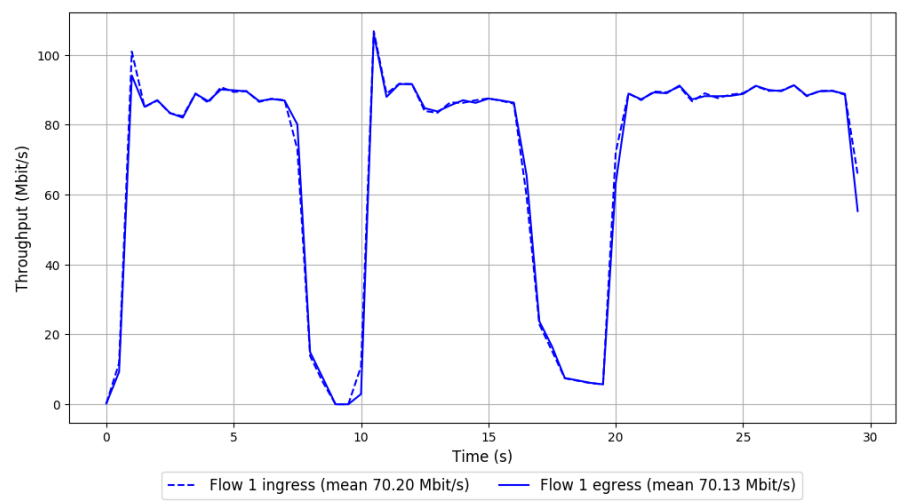
-- Flow 1:

Average throughput: 70.13 Mbit/s

95th percentile per-packet one-way delay: 53.259 ms

Loss rate: 0.47%

Run 10: Report of QUIC Cubic — Data Link

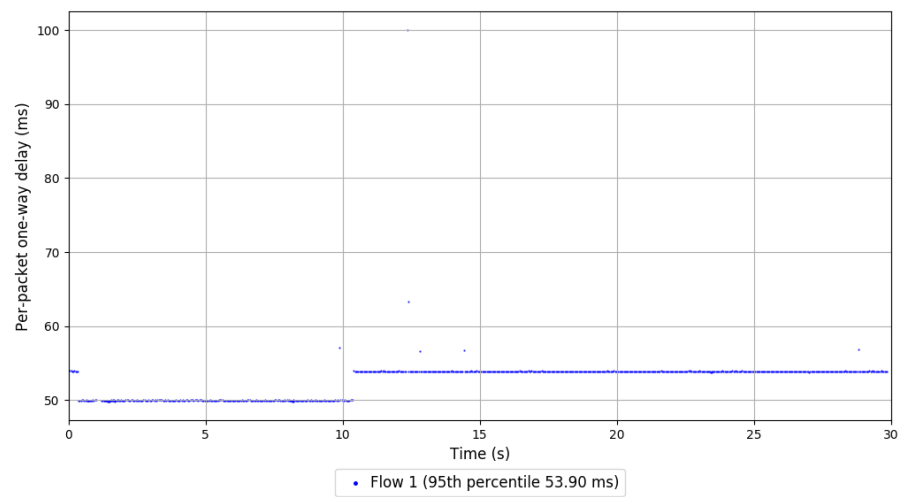
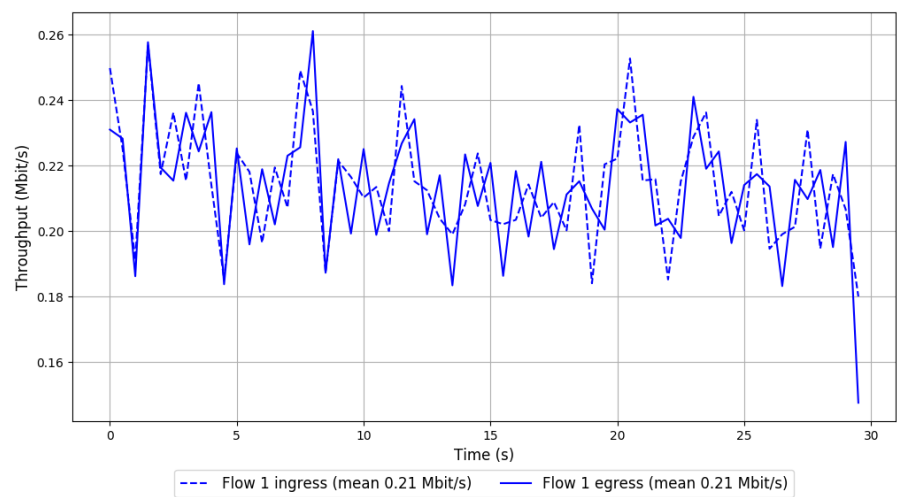


```
Run 1: Statistics of SCReAM

Start at: 2018-03-06 01:25:44
End at: 2018-03-06 01:26:14

# Below is generated by plot.py at 2018-03-06 06:44:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.900 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.900 ms
Loss rate: 0.38%
```

Run 1: Report of SReAM — Data Link

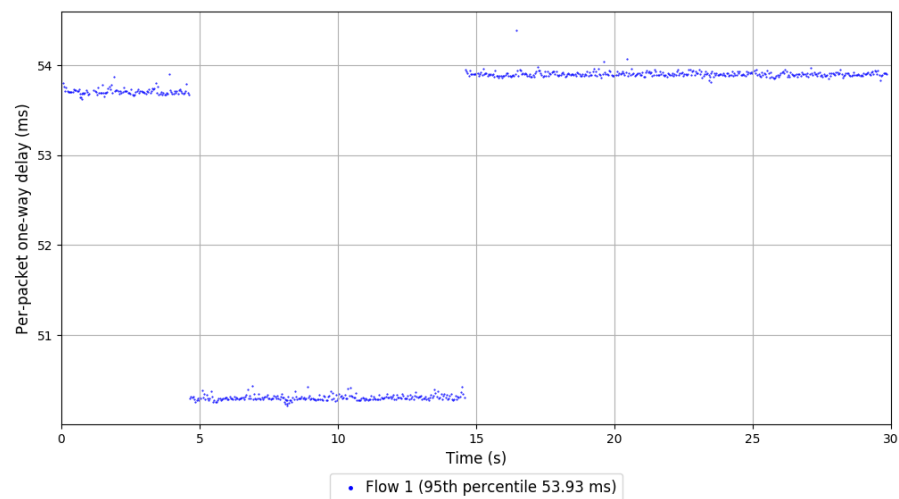
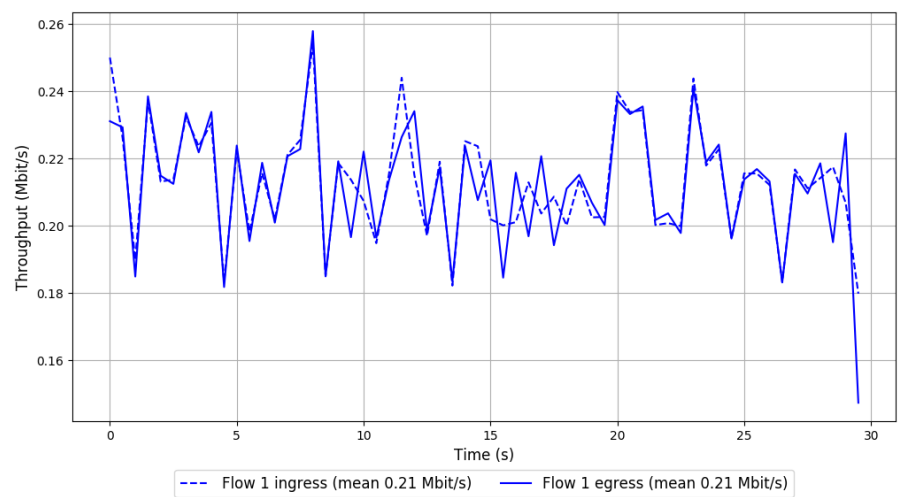


```
Run 2: Statistics of SCReAM

Start at: 2018-03-06 01:39:59
End at: 2018-03-06 01:40:29

# Below is generated by plot.py at 2018-03-06 06:44:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.931 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.931 ms
Loss rate: 0.38%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-03-06 01:54:18

End at: 2018-03-06 01:54:48

Below is generated by plot.py at 2018-03-06 06:44:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

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

Loss rate: 0.38%

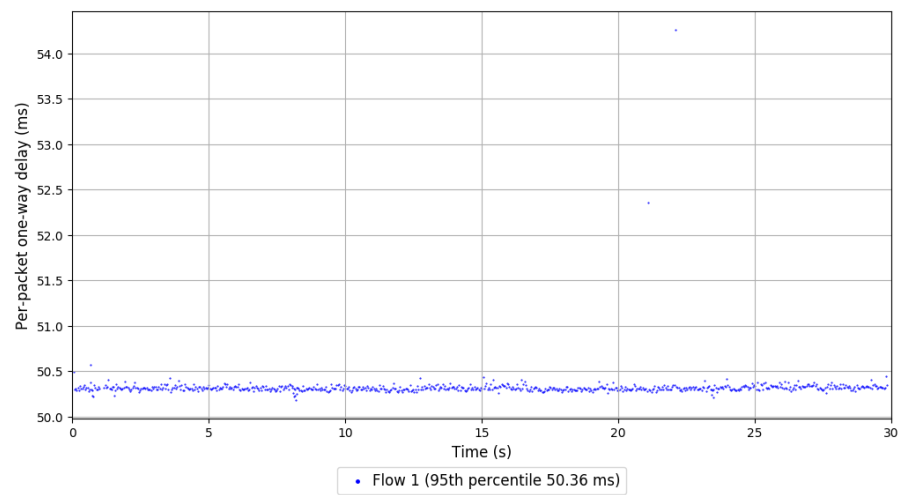
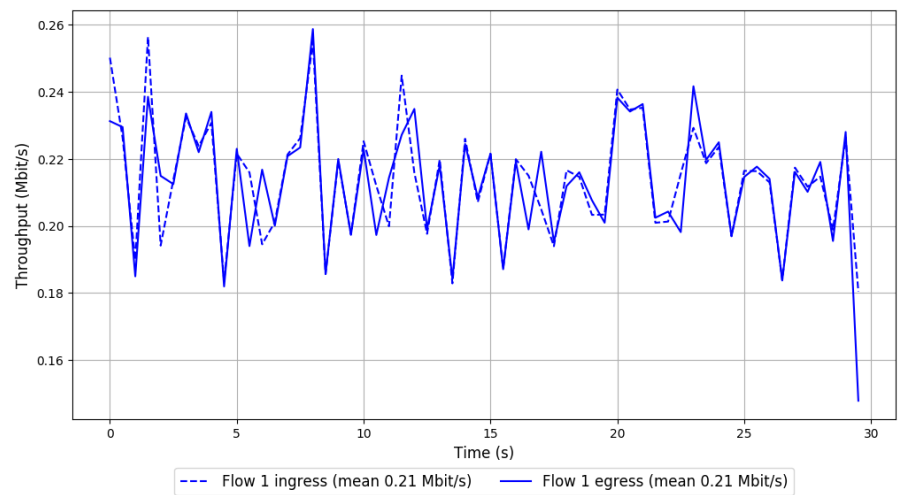
-- Flow 1:

Average throughput: 0.21 Mbit/s

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

Loss rate: 0.38%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-03-06 02:08:50

End at: 2018-03-06 02:09:20

Below is generated by plot.py at 2018-03-06 06:44:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 54.107 ms

Loss rate: 0.26%

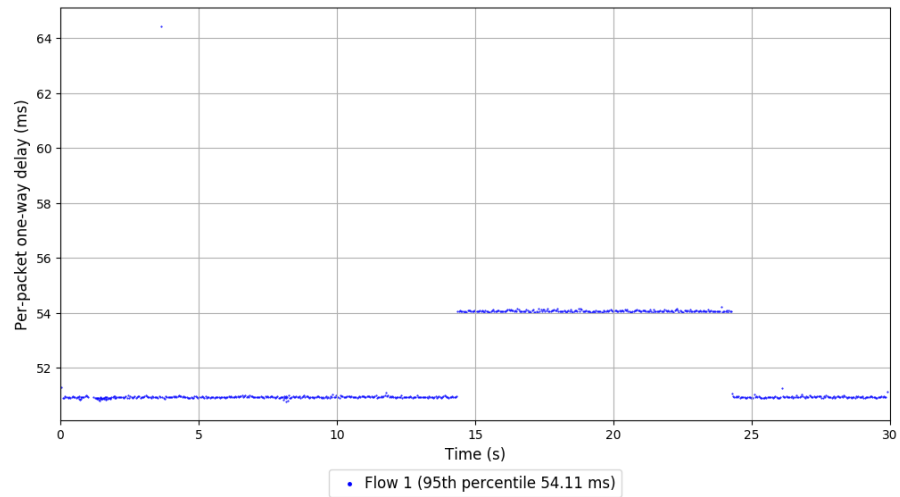
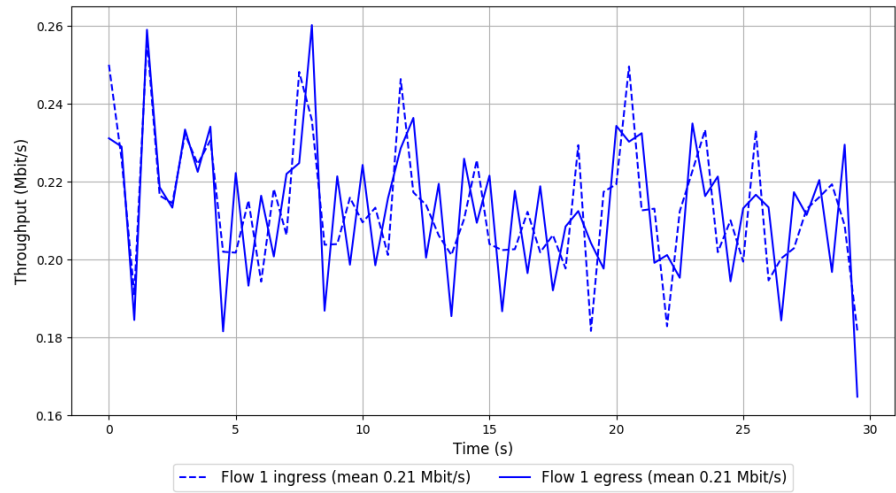
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 54.107 ms

Loss rate: 0.26%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-03-06 02:23:07

End at: 2018-03-06 02:23:37

Below is generated by plot.py at 2018-03-06 06:44:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.482 ms

Loss rate: 0.38%

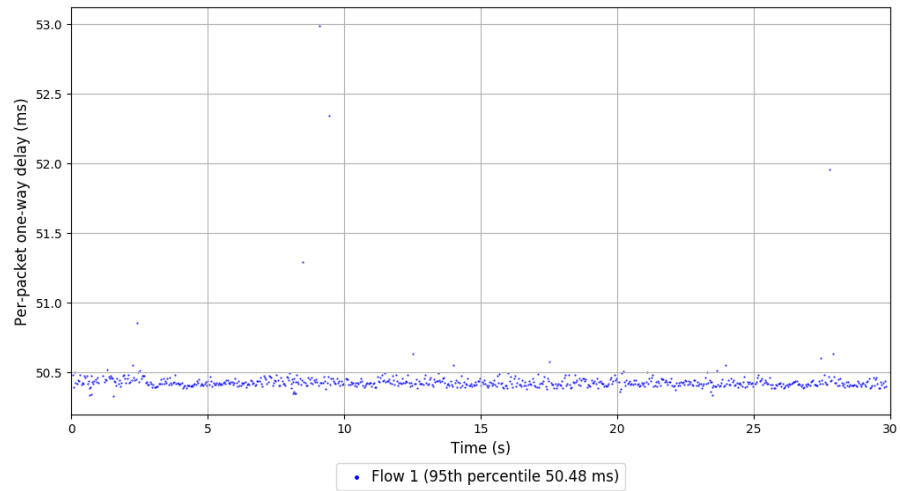
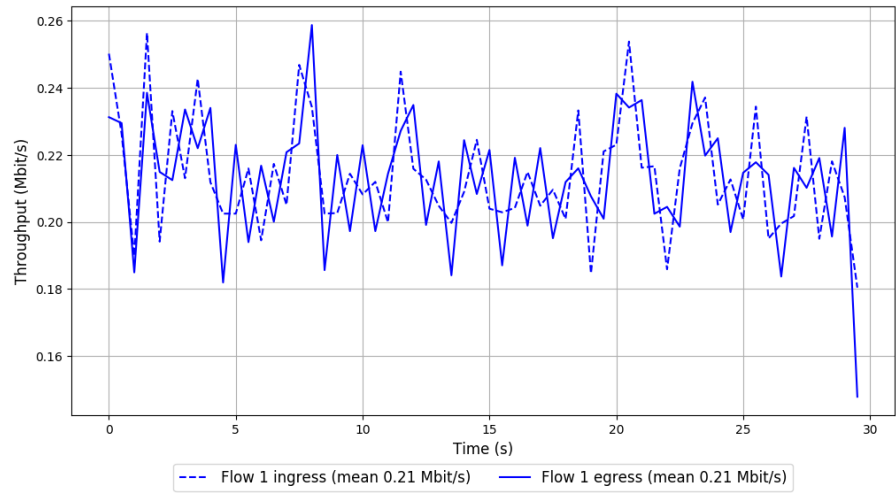
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.482 ms

Loss rate: 0.38%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-03-06 02:37:48

End at: 2018-03-06 02:38:18

Below is generated by plot.py at 2018-03-06 06:44:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

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

Loss rate: 0.38%

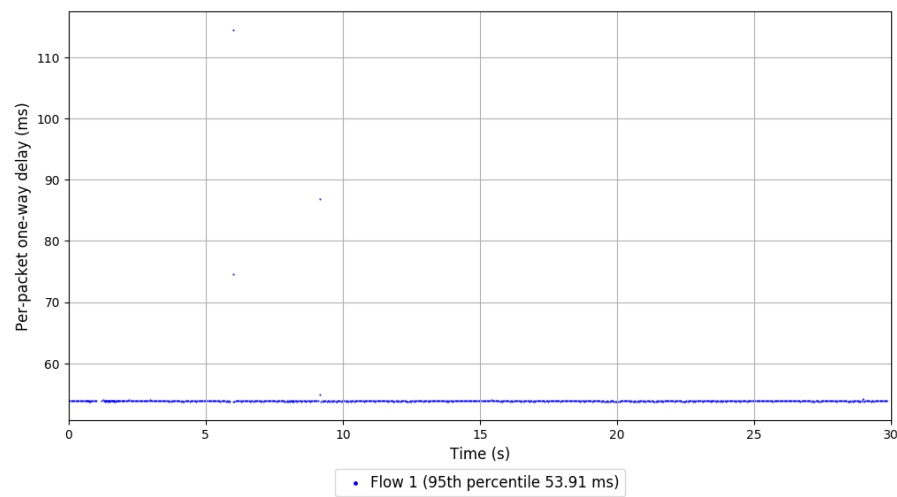
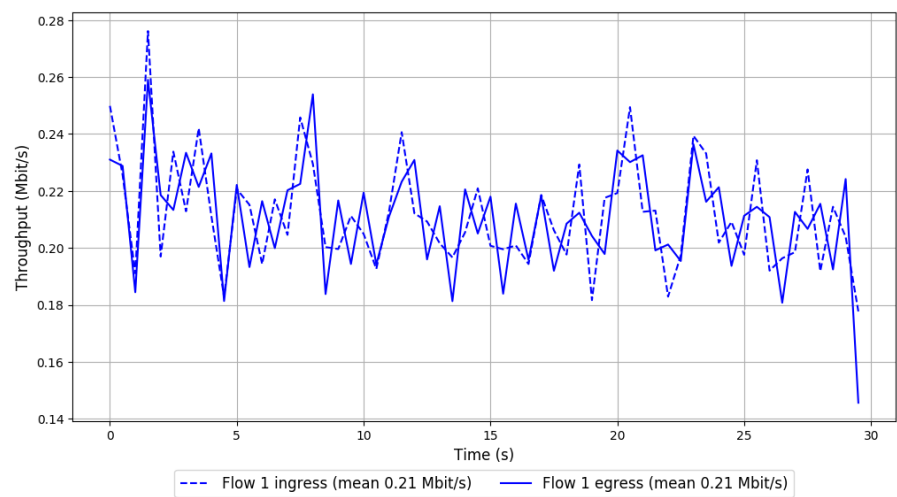
-- Flow 1:

Average throughput: 0.21 Mbit/s

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

Loss rate: 0.38%

Run 6: Report of SReAM — Data Link

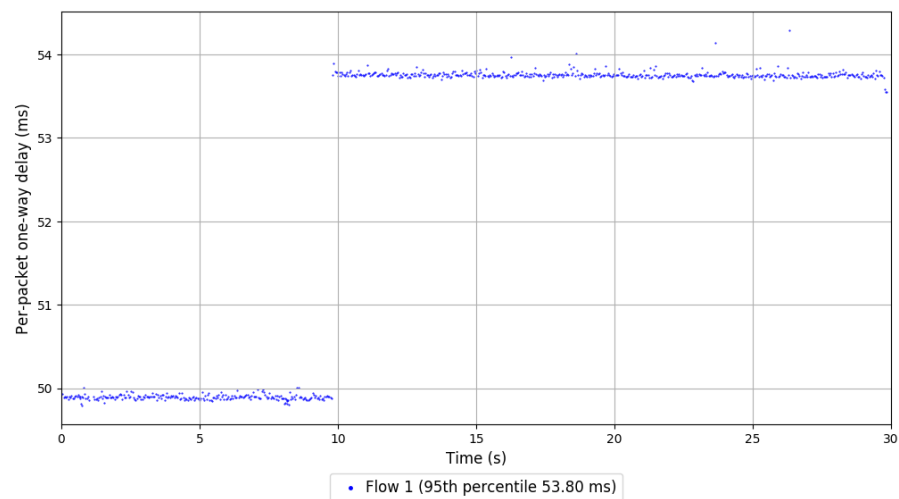
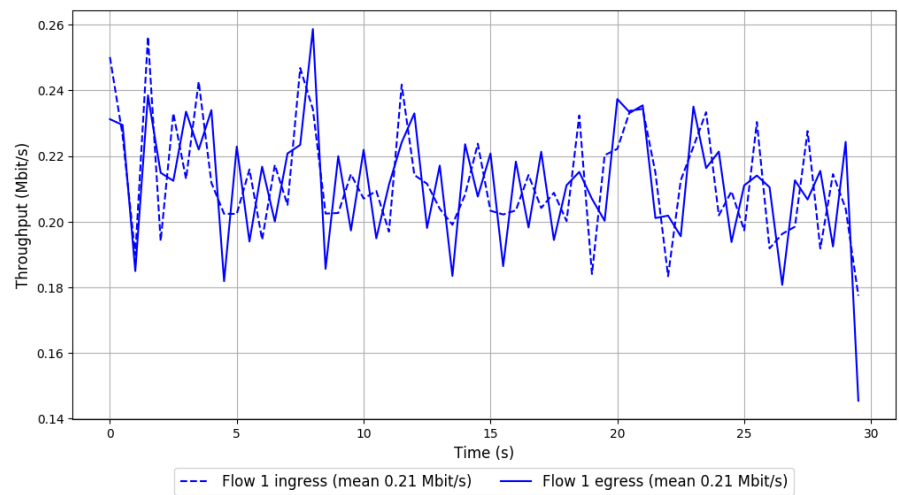


```
Run 7: Statistics of SCReAM

Start at: 2018-03-06 02:52:04
End at: 2018-03-06 02:52:34

# Below is generated by plot.py at 2018-03-06 06:44:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.796 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.796 ms
Loss rate: 0.38%
```

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-03-06 03:06:26

End at: 2018-03-06 03:06:56

Below is generated by plot.py at 2018-03-06 06:44:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.751 ms

Loss rate: 0.38%

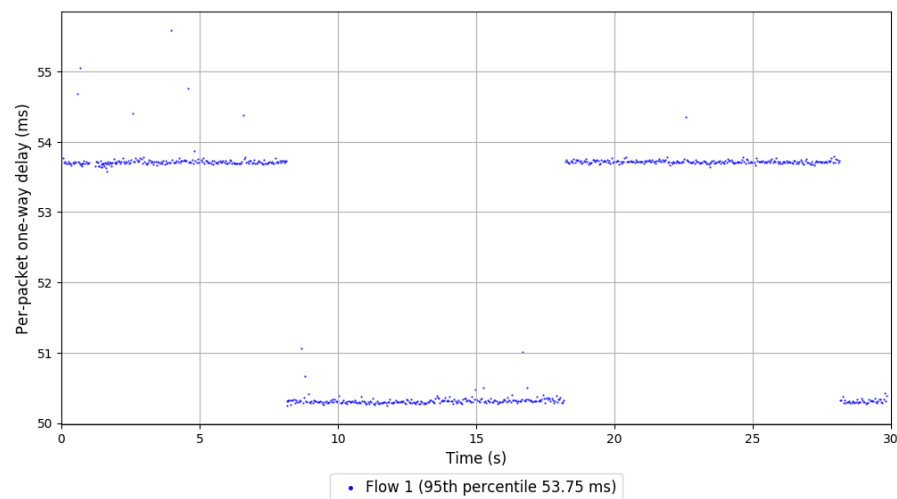
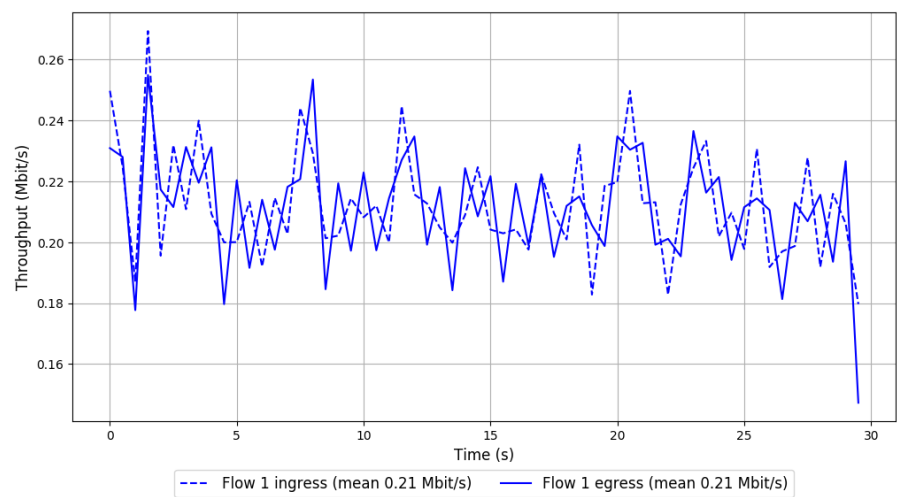
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.751 ms

Loss rate: 0.38%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-03-06 03:21:08

End at: 2018-03-06 03:21:38

Below is generated by plot.py at 2018-03-06 06:44:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.954 ms

Loss rate: 0.38%

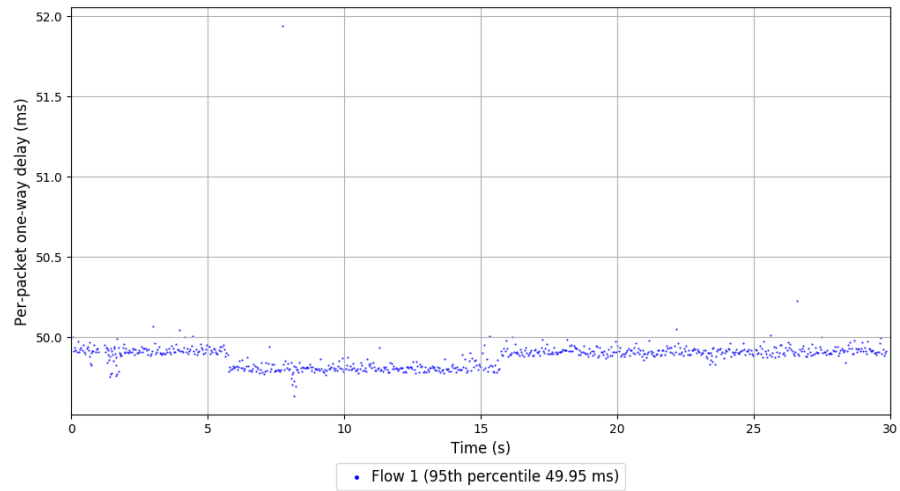
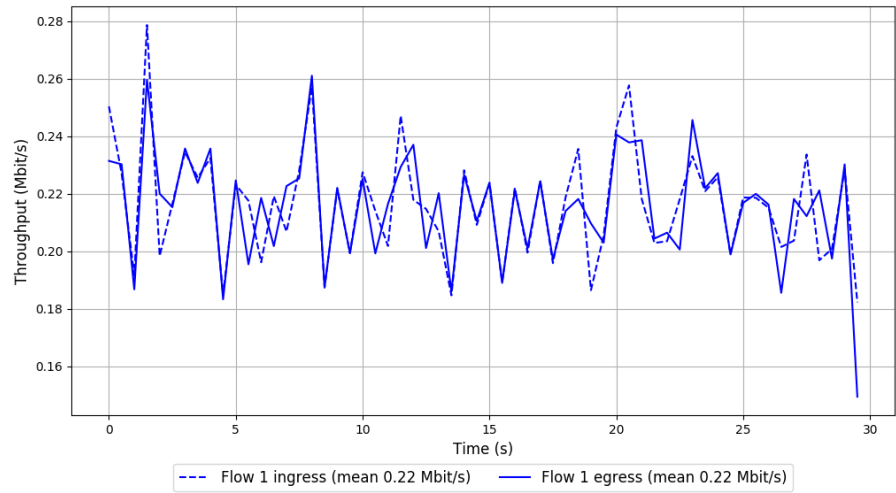
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.954 ms

Loss rate: 0.38%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-03-06 03:35:49

End at: 2018-03-06 03:36:19

Below is generated by plot.py at 2018-03-06 06:44:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.38%

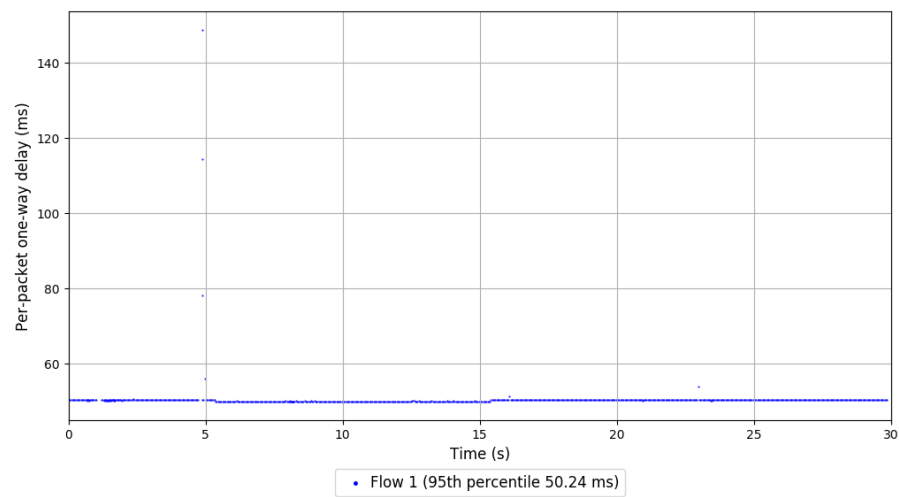
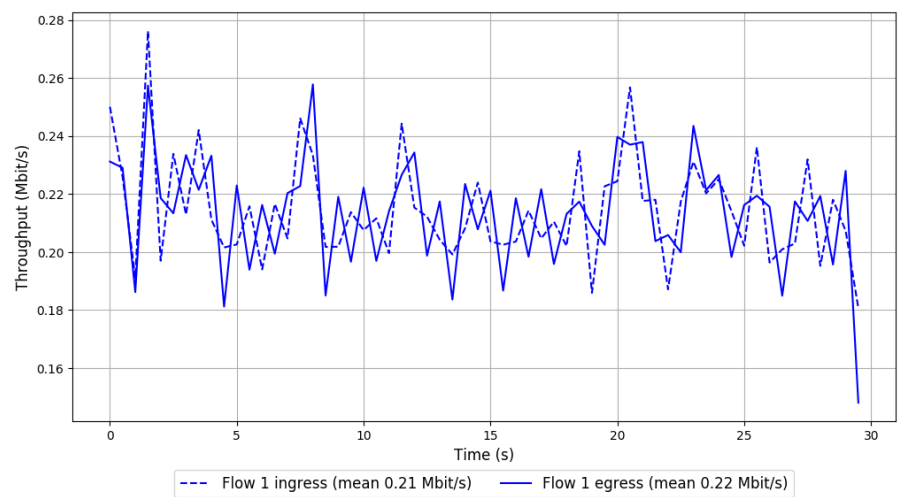
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.38%

Run 10: Report of SReAM — Data Link

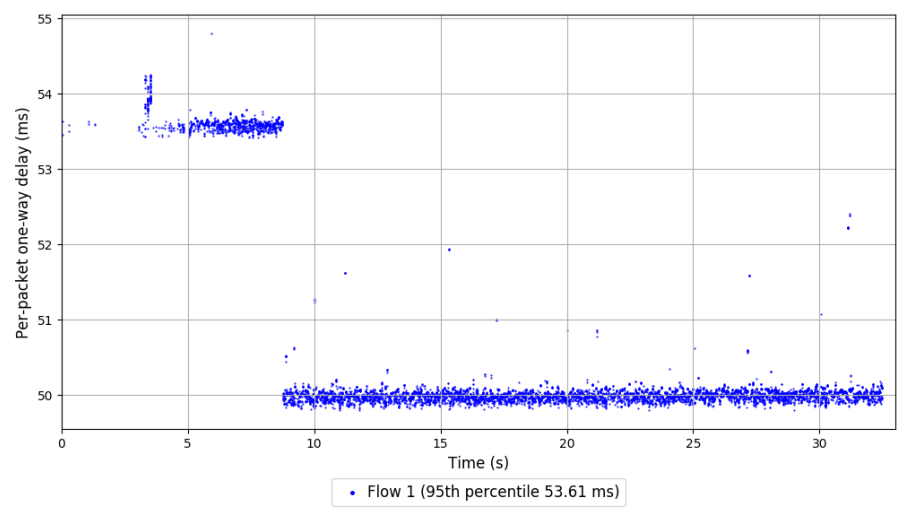
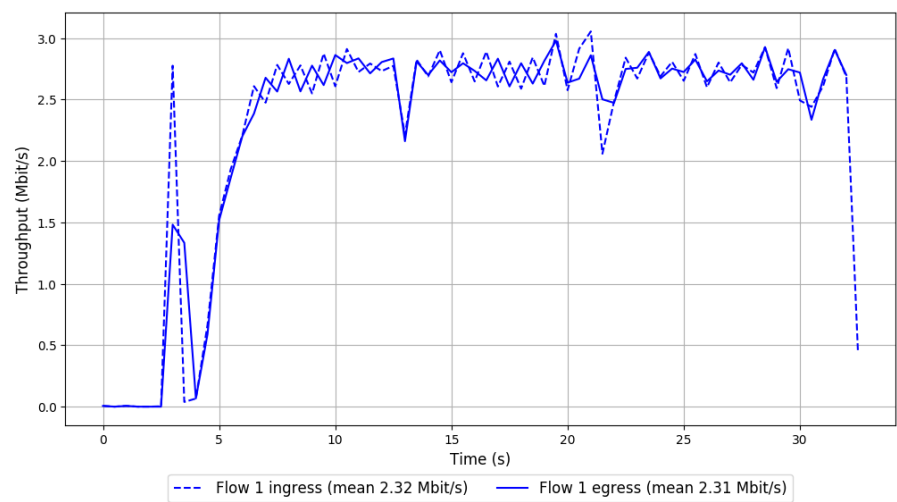


```
Run 1: Statistics of WebRTC media

Start at: 2018-03-06 01:29:38
End at: 2018-03-06 01:30:08

# Below is generated by plot.py at 2018-03-06 06:44:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 53.610 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 53.610 ms
Loss rate: 0.43%
```

Run 1: Report of WebRTC media — Data Link

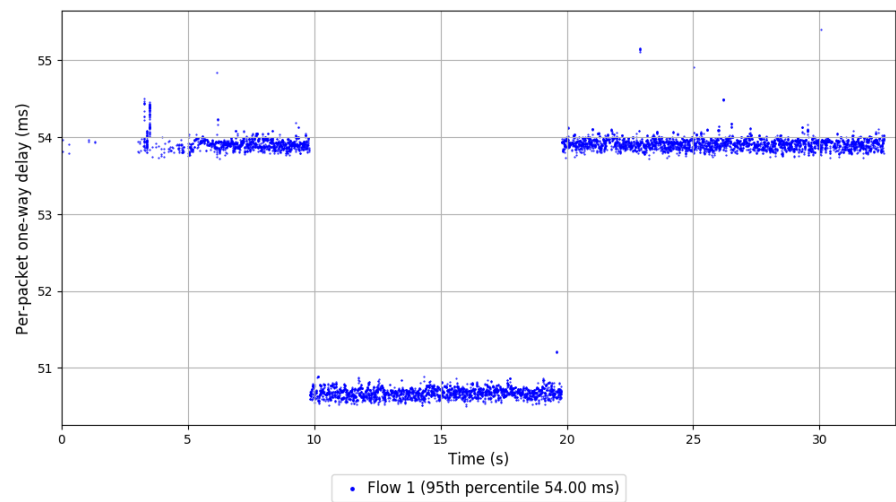
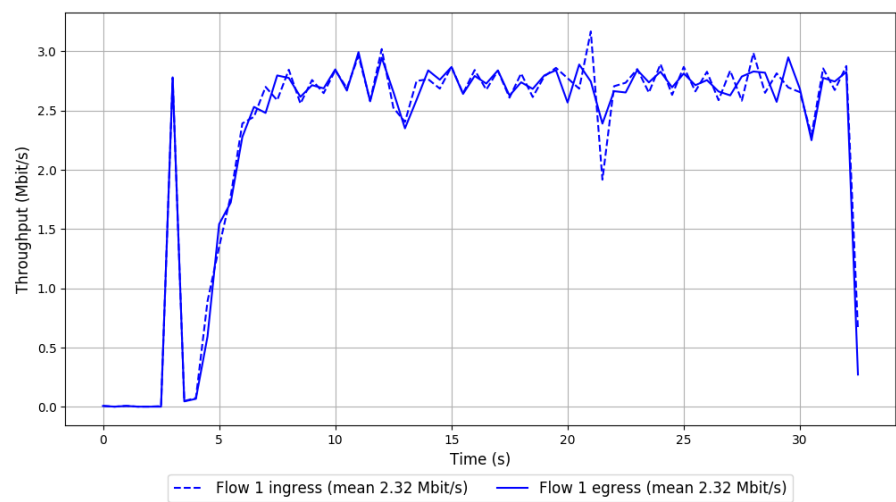


```
Run 2: Statistics of WebRTC media

Start at: 2018-03-06 01:43:57
End at: 2018-03-06 01:44:27

# Below is generated by plot.py at 2018-03-06 06:44:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 54.004 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 54.004 ms
Loss rate: 0.43%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-03-06 01:58:31

End at: 2018-03-06 01:59:01

Below is generated by plot.py at 2018-03-06 06:44:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

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

Loss rate: 0.43%

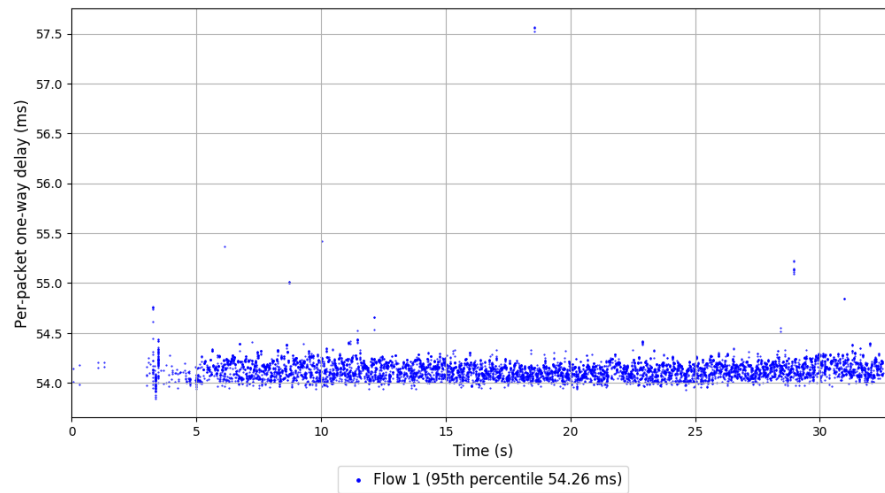
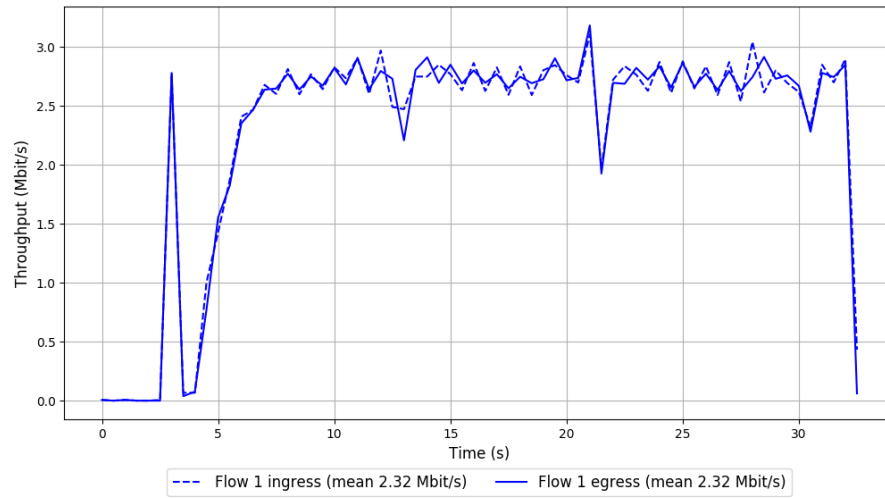
-- Flow 1:

Average throughput: 2.32 Mbit/s

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

Loss rate: 0.43%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-03-06 02:12:46

End at: 2018-03-06 02:13:16

Below is generated by plot.py at 2018-03-06 06:44:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 54.146 ms

Loss rate: 0.33%

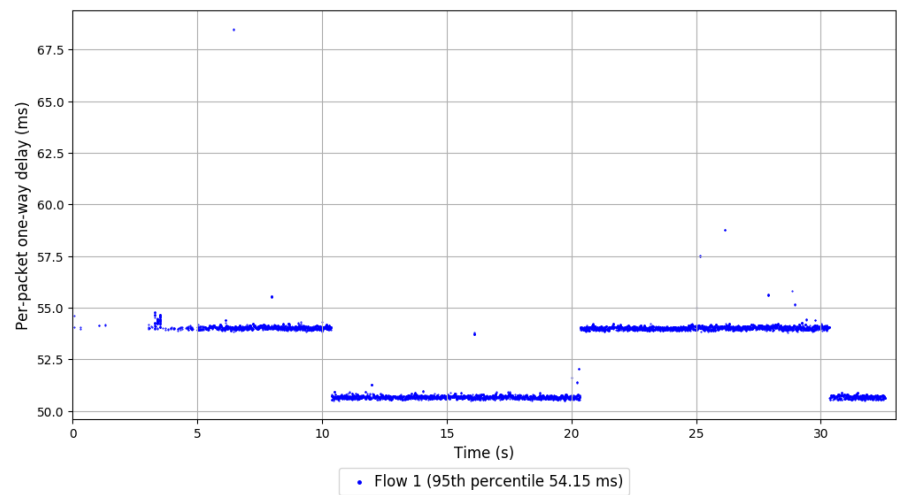
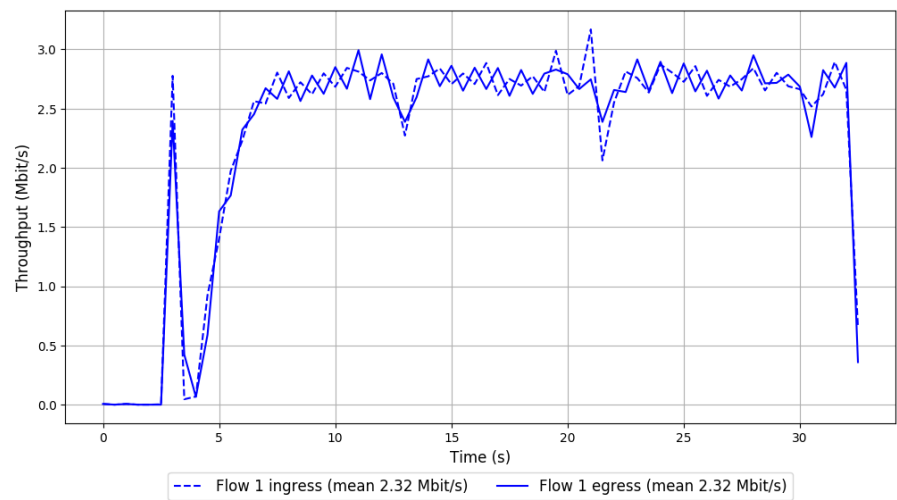
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 54.146 ms

Loss rate: 0.33%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-03-06 02:27:23

End at: 2018-03-06 02:27:53

Below is generated by plot.py at 2018-03-06 06:44:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.959 ms

Loss rate: 0.43%

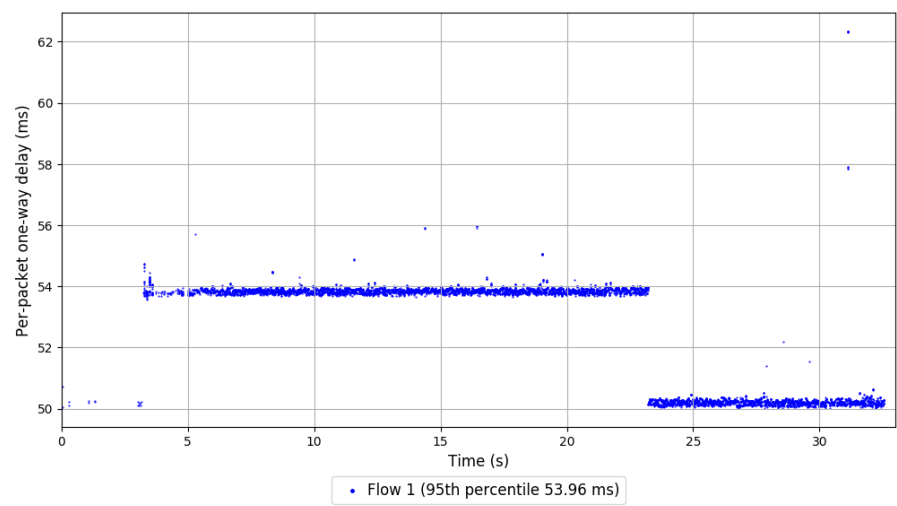
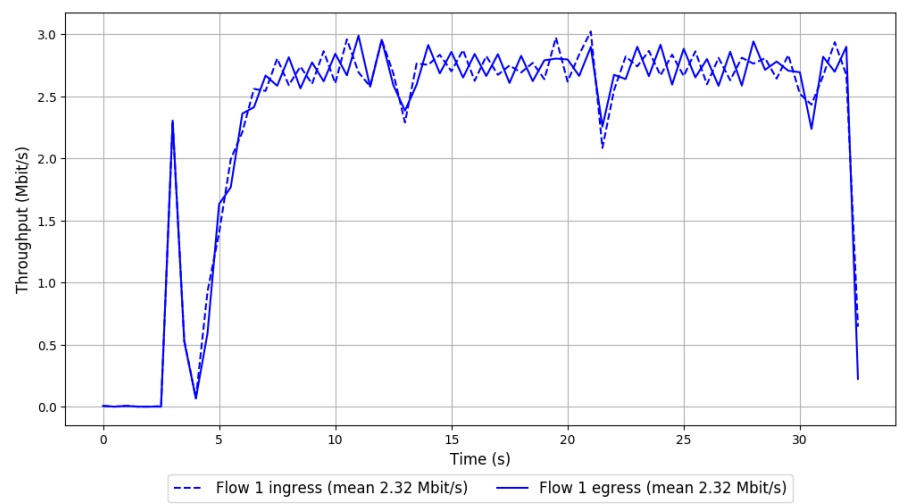
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.959 ms

Loss rate: 0.43%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-03-06 02:41:55

End at: 2018-03-06 02:42:25

Below is generated by plot.py at 2018-03-06 06:44:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

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

Loss rate: 0.43%

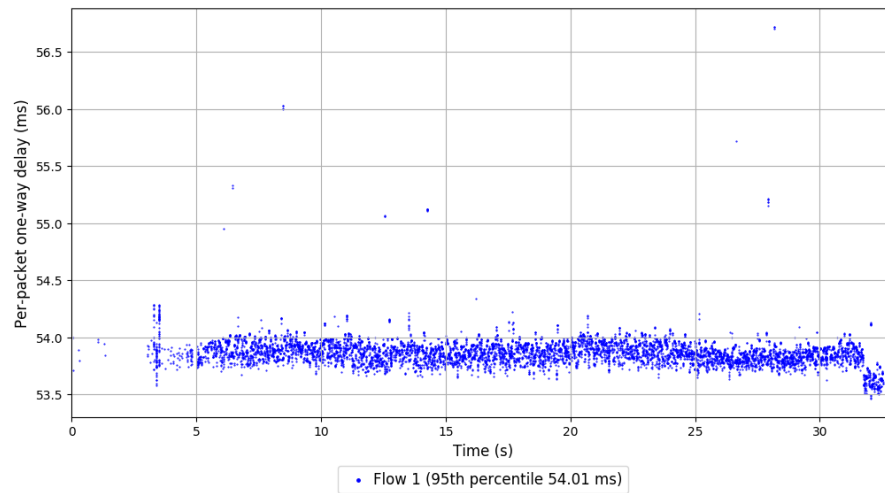
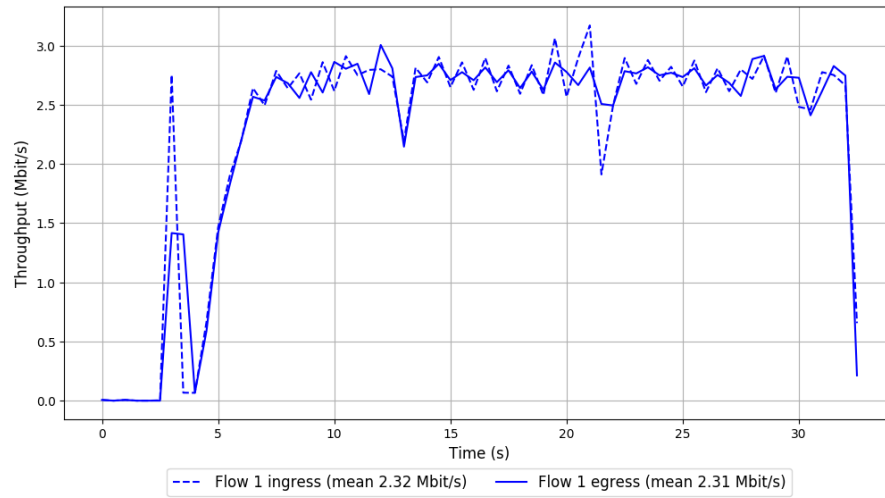
-- Flow 1:

Average throughput: 2.31 Mbit/s

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

Loss rate: 0.43%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-03-06 02:56:08

End at: 2018-03-06 02:56:38

Below is generated by plot.py at 2018-03-06 06:44:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 50.580 ms

Loss rate: 0.43%

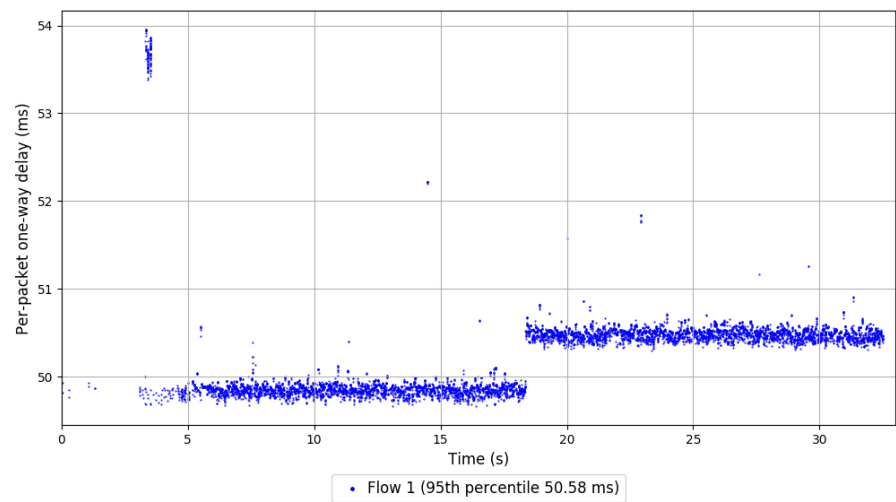
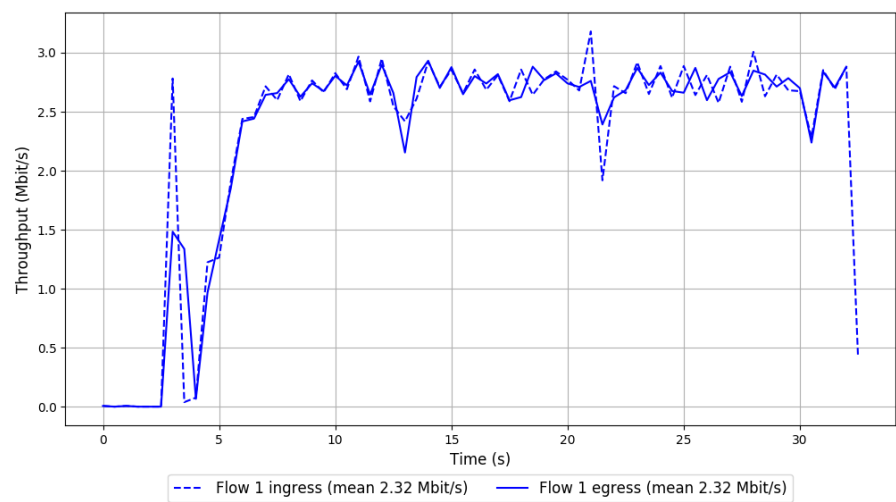
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 50.580 ms

Loss rate: 0.43%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-03-06 03:10:48

End at: 2018-03-06 03:11:18

Below is generated by plot.py at 2018-03-06 06:44:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.566 ms

Loss rate: 0.43%

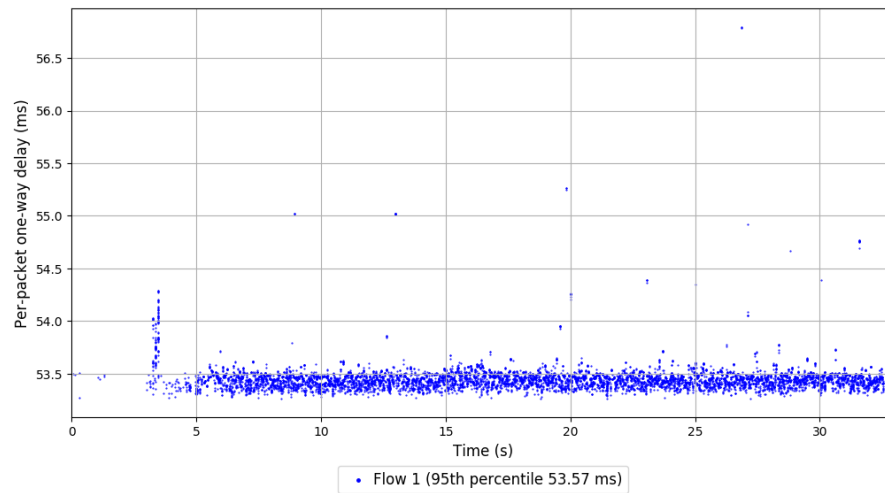
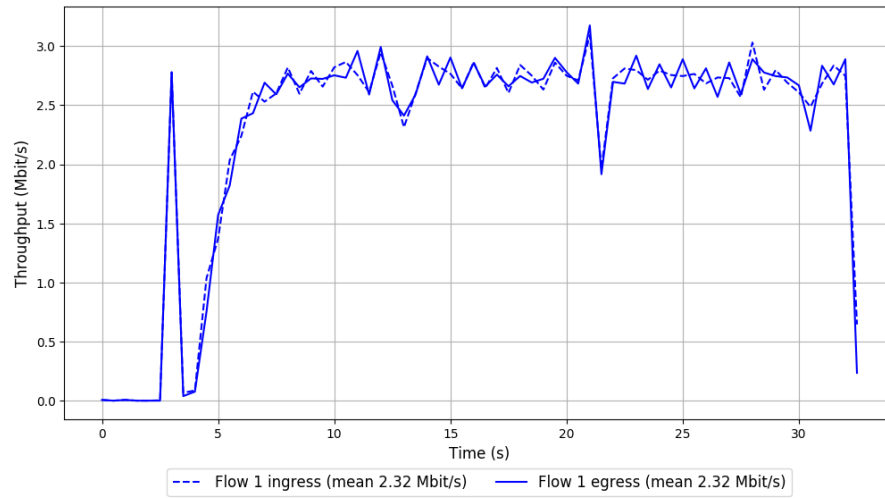
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.566 ms

Loss rate: 0.43%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-03-06 03:25:21

End at: 2018-03-06 03:25:51

Below is generated by plot.py at 2018-03-06 06:44:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 49.811 ms

Loss rate: 0.29%

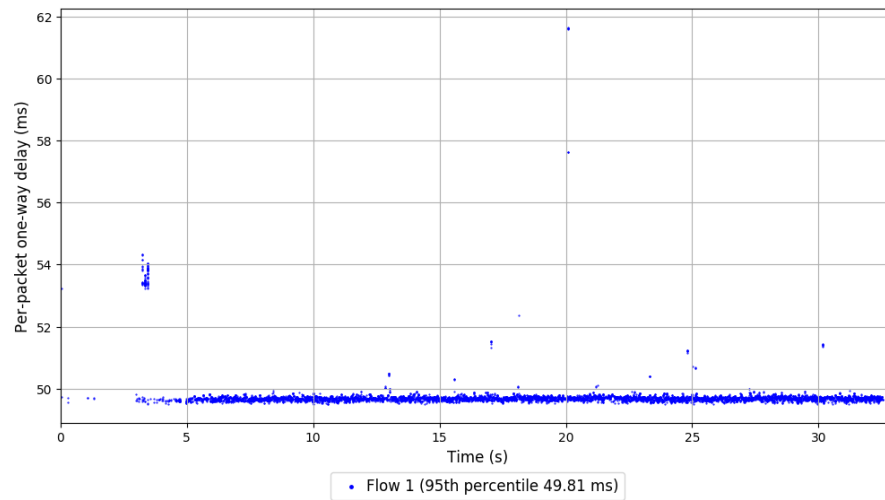
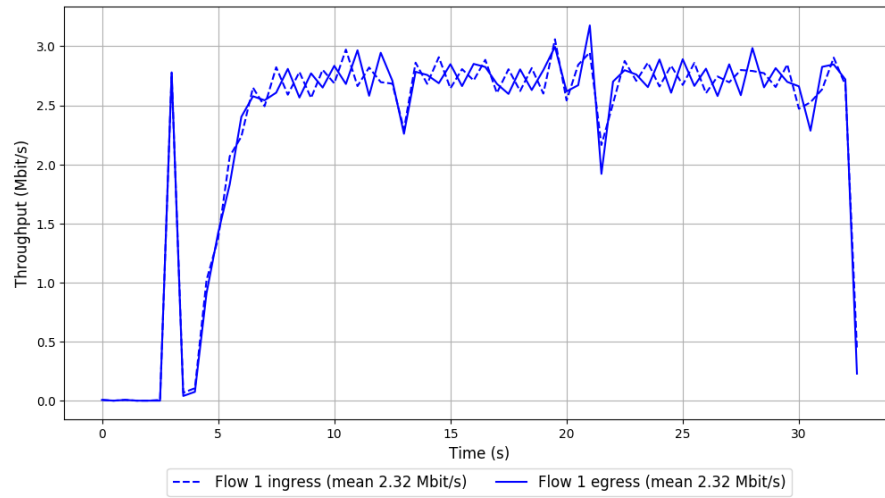
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 49.811 ms

Loss rate: 0.29%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-03-06 03:39:46

End at: 2018-03-06 03:40:16

Below is generated by plot.py at 2018-03-06 06:44:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.625 ms

Loss rate: 0.43%

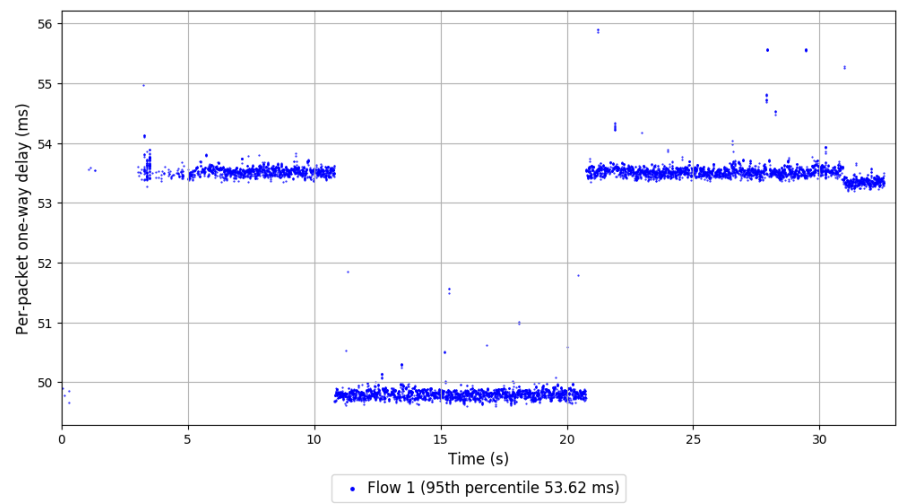
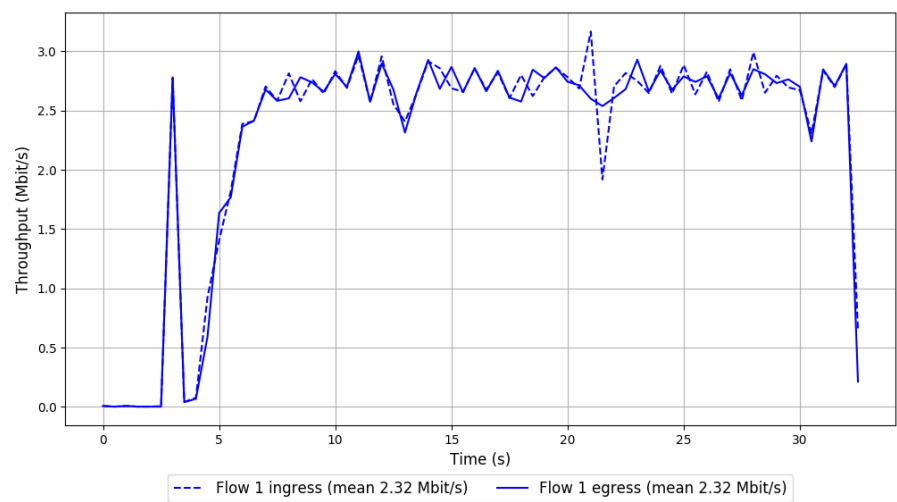
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.625 ms

Loss rate: 0.43%

Run 10: Report of WebRTC media — Data Link

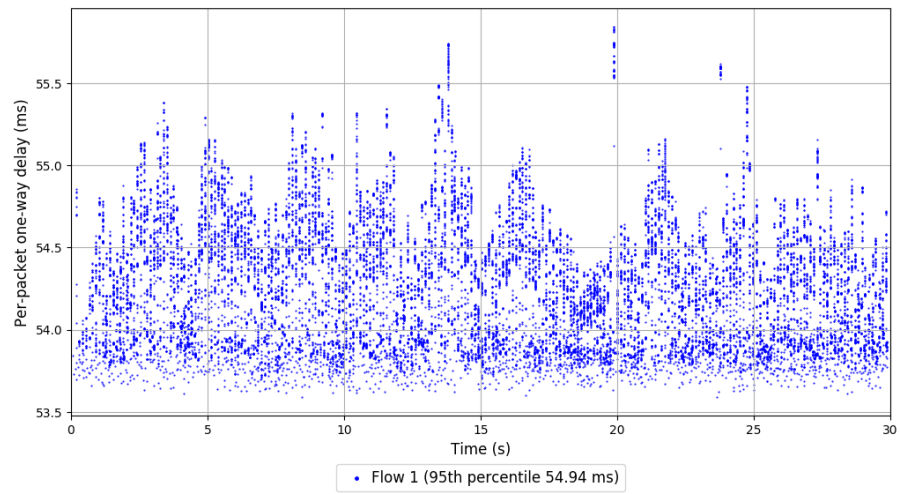
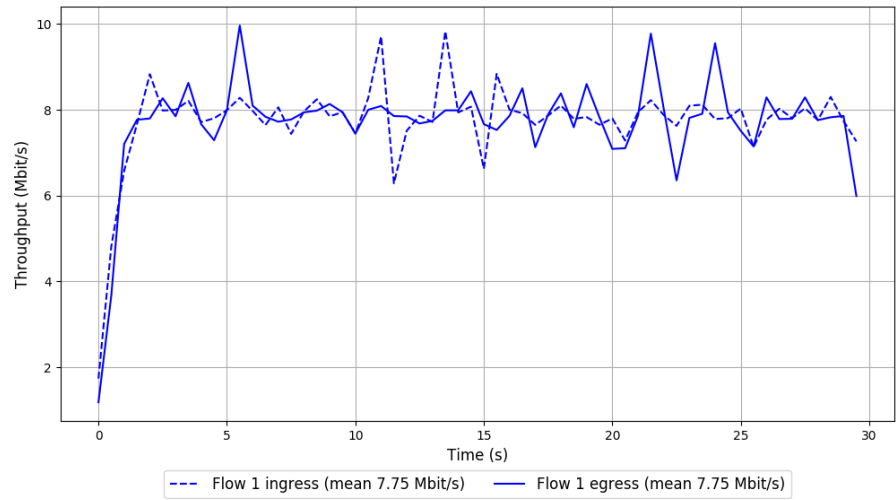


```
Run 1: Statistics of Sprout

Start at: 2018-03-06 01:29:01
End at: 2018-03-06 01:29:31

# Below is generated by plot.py at 2018-03-06 06:44:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.75 Mbit/s
95th percentile per-packet one-way delay: 54.936 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 7.75 Mbit/s
95th percentile per-packet one-way delay: 54.936 ms
Loss rate: 0.35%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-03-06 01:43:20

End at: 2018-03-06 01:43:50

Below is generated by plot.py at 2018-03-06 06:44:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.73 Mbit/s

95th percentile per-packet one-way delay: 54.915 ms

Loss rate: 0.41%

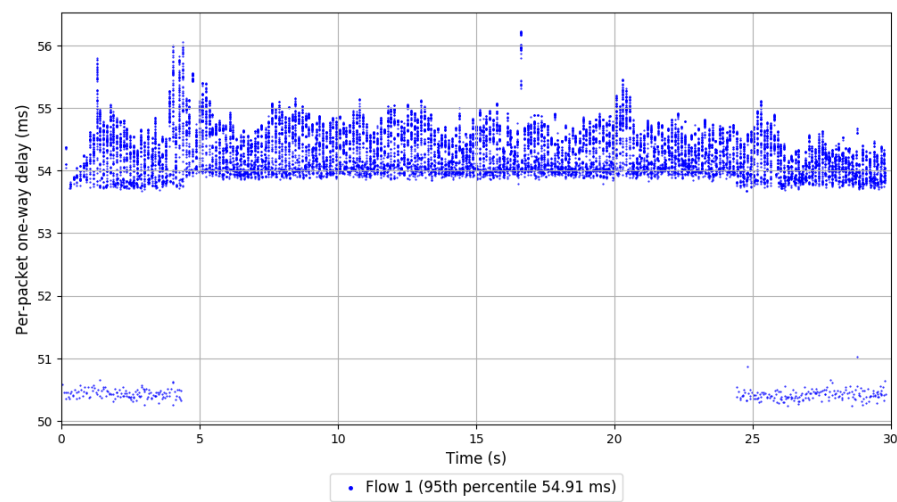
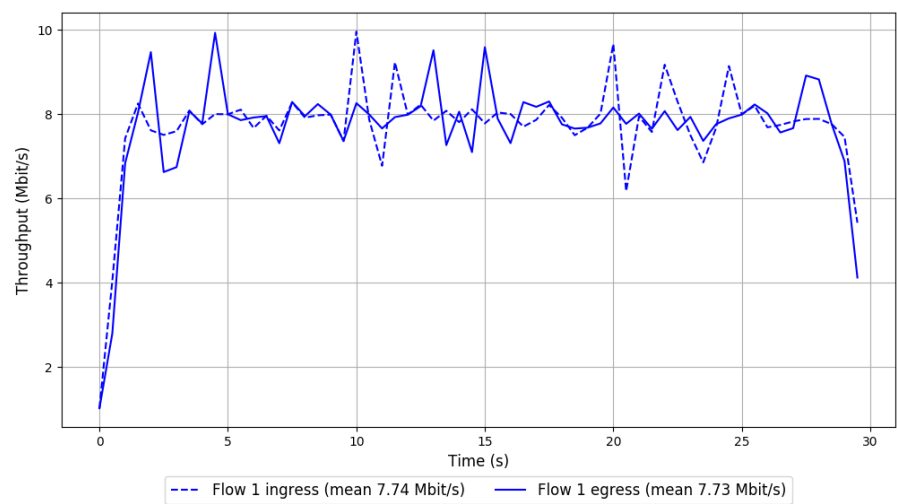
-- Flow 1:

Average throughput: 7.73 Mbit/s

95th percentile per-packet one-way delay: 54.915 ms

Loss rate: 0.41%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-03-06 01:57:54

End at: 2018-03-06 01:58:24

Below is generated by plot.py at 2018-03-06 06:44:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.55 Mbit/s

95th percentile per-packet one-way delay: 55.160 ms

Loss rate: 0.44%

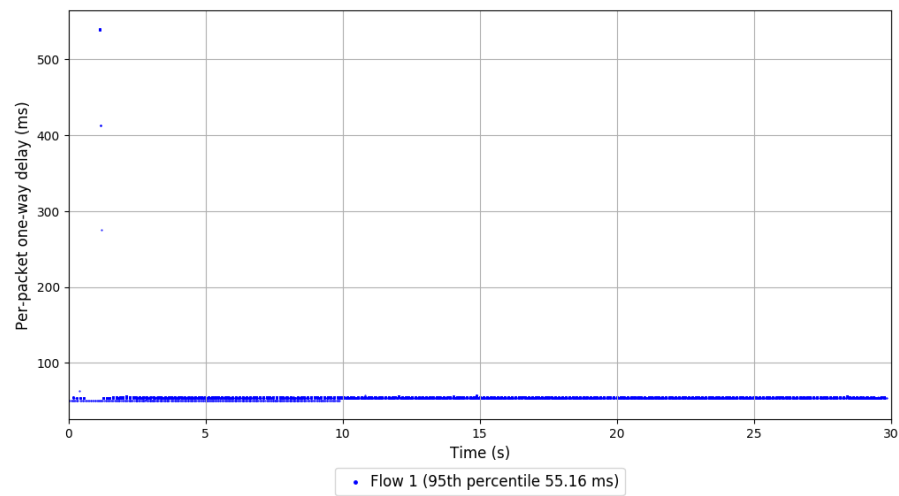
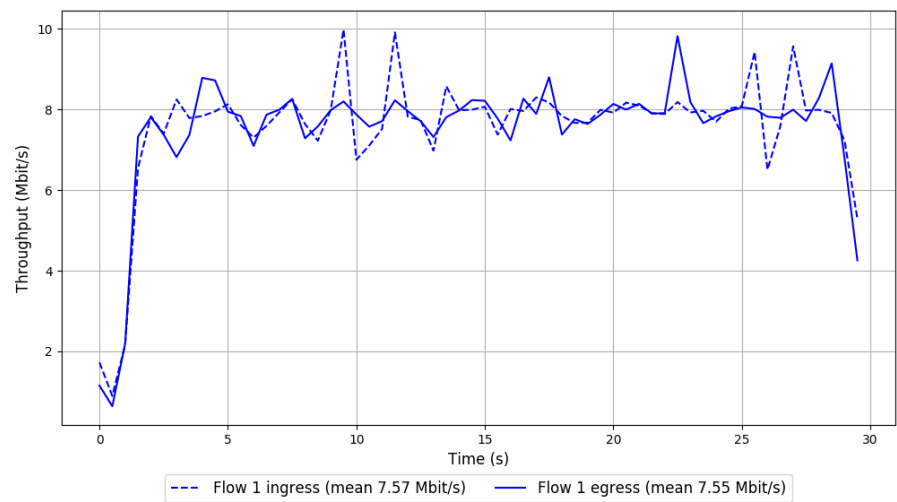
-- Flow 1:

Average throughput: 7.55 Mbit/s

95th percentile per-packet one-way delay: 55.160 ms

Loss rate: 0.44%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-03-06 02:12:09

End at: 2018-03-06 02:12:39

Below is generated by plot.py at 2018-03-06 06:44:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 55.273 ms

Loss rate: 0.41%

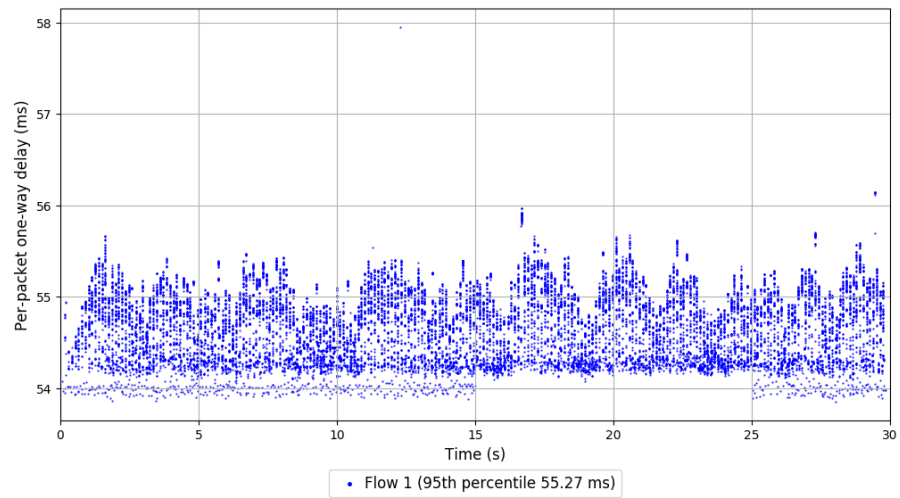
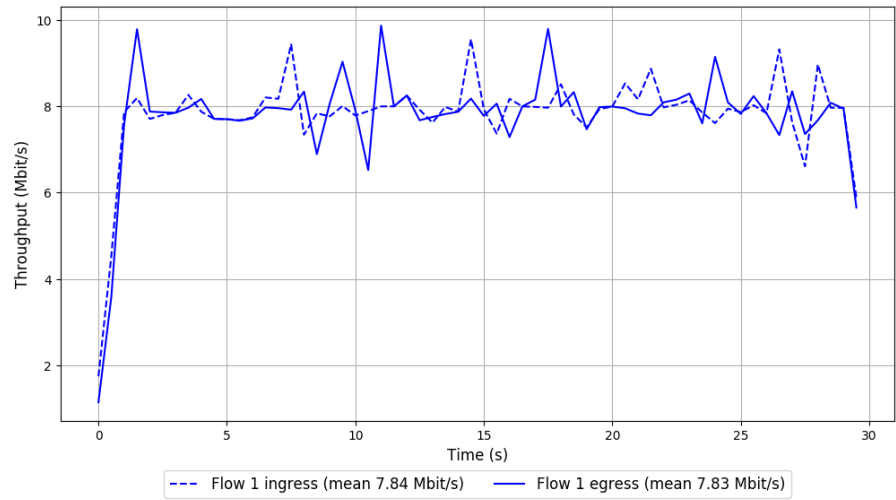
-- Flow 1:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 55.273 ms

Loss rate: 0.41%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-03-06 02:26:46

End at: 2018-03-06 02:27:16

Below is generated by plot.py at 2018-03-06 06:44:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 54.867 ms

Loss rate: 0.10%

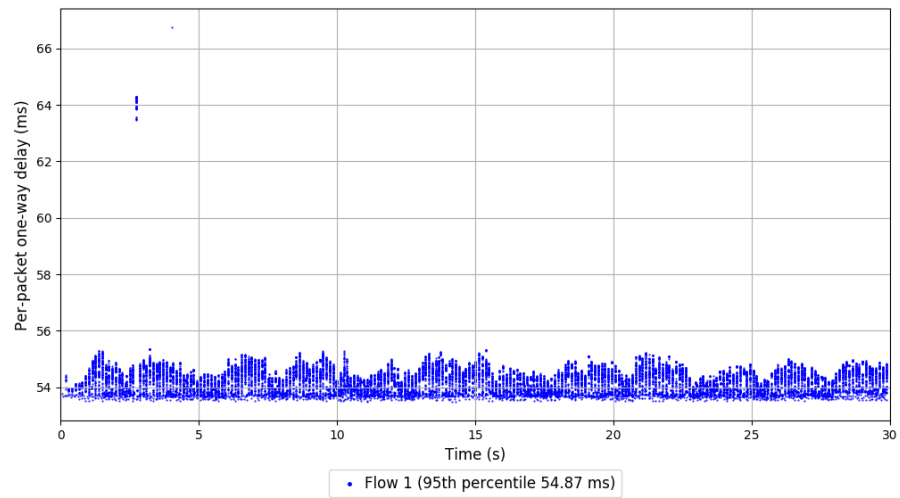
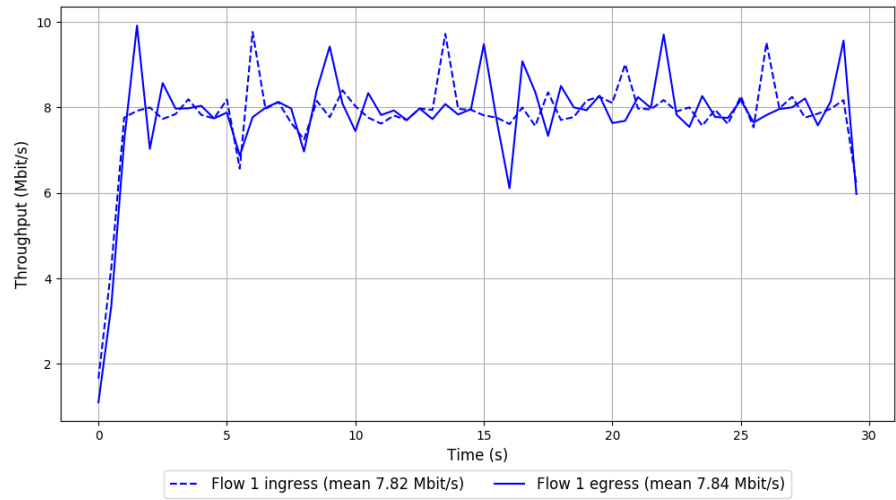
-- Flow 1:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 54.867 ms

Loss rate: 0.10%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-03-06 02:41:18

End at: 2018-03-06 02:41:48

Below is generated by plot.py at 2018-03-06 06:44:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.76 Mbit/s

95th percentile per-packet one-way delay: 54.788 ms

Loss rate: 0.00%

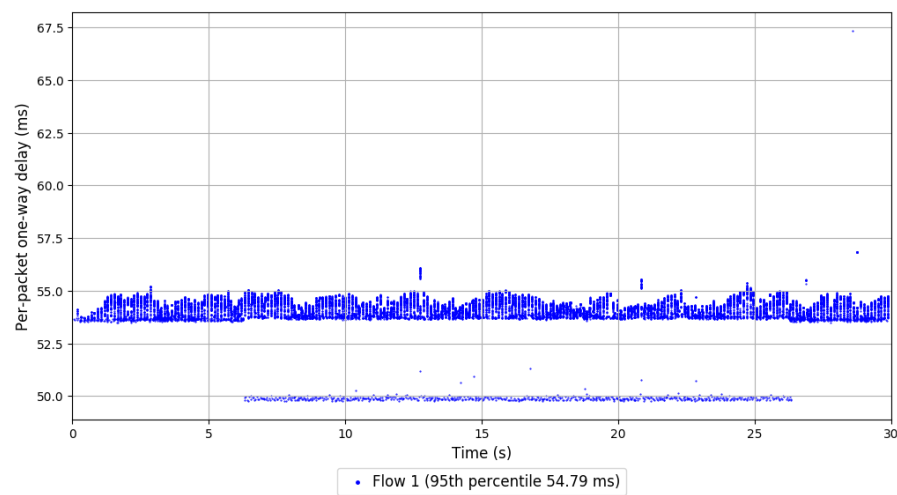
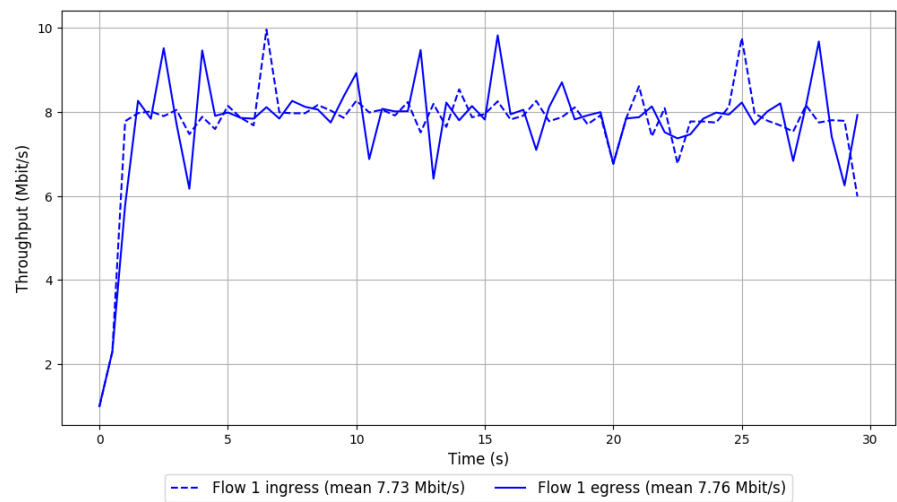
-- Flow 1:

Average throughput: 7.76 Mbit/s

95th percentile per-packet one-way delay: 54.788 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-03-06 02:55:31

End at: 2018-03-06 02:56:01

Below is generated by plot.py at 2018-03-06 06:44:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 54.826 ms

Loss rate: 0.43%

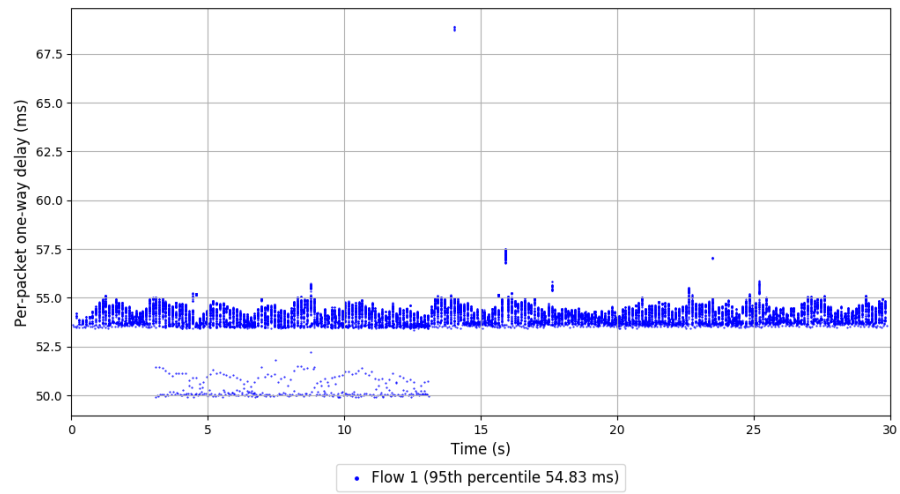
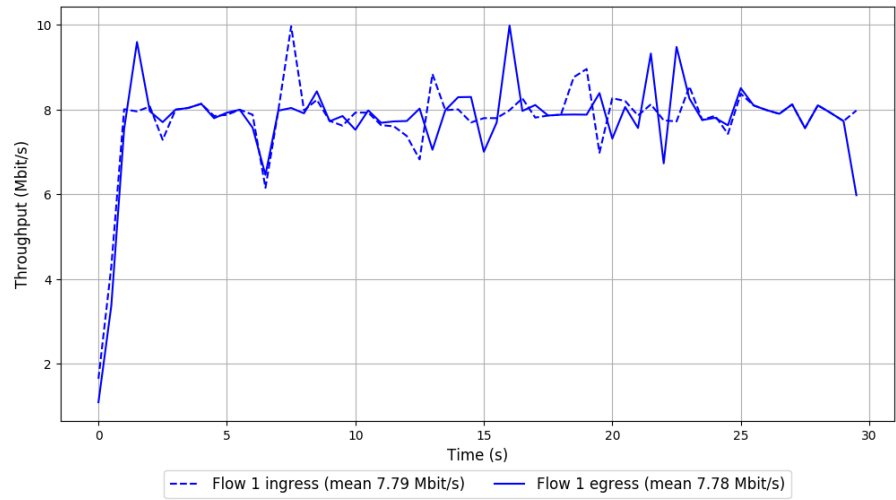
-- Flow 1:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 54.826 ms

Loss rate: 0.43%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-03-06 03:10:10

End at: 2018-03-06 03:10:40

Below is generated by plot.py at 2018-03-06 06:44:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 54.599 ms

Loss rate: 0.42%

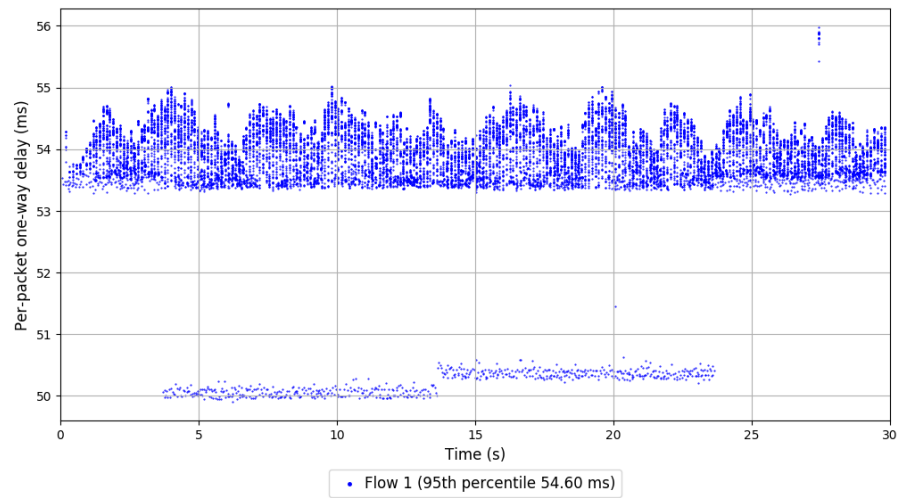
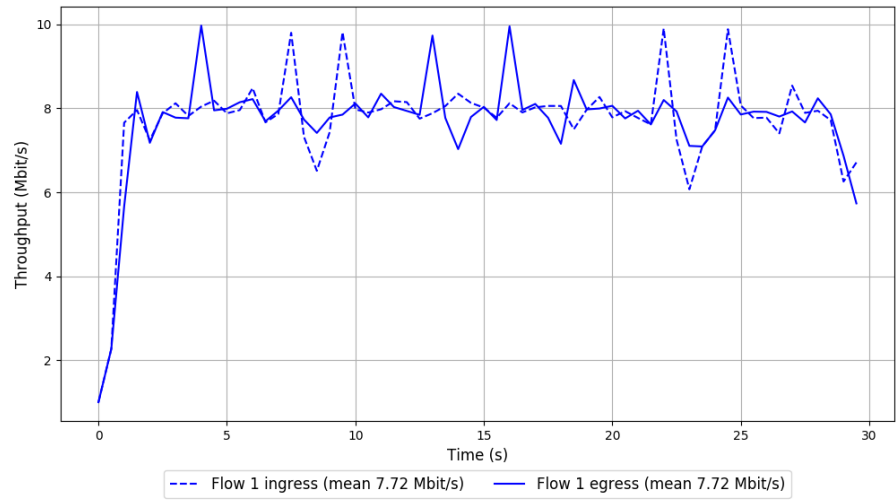
-- Flow 1:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 54.599 ms

Loss rate: 0.42%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-03-06 03:24:44

End at: 2018-03-06 03:25:14

Below is generated by plot.py at 2018-03-06 06:44:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.76 Mbit/s

95th percentile per-packet one-way delay: 54.685 ms

Loss rate: 0.48%

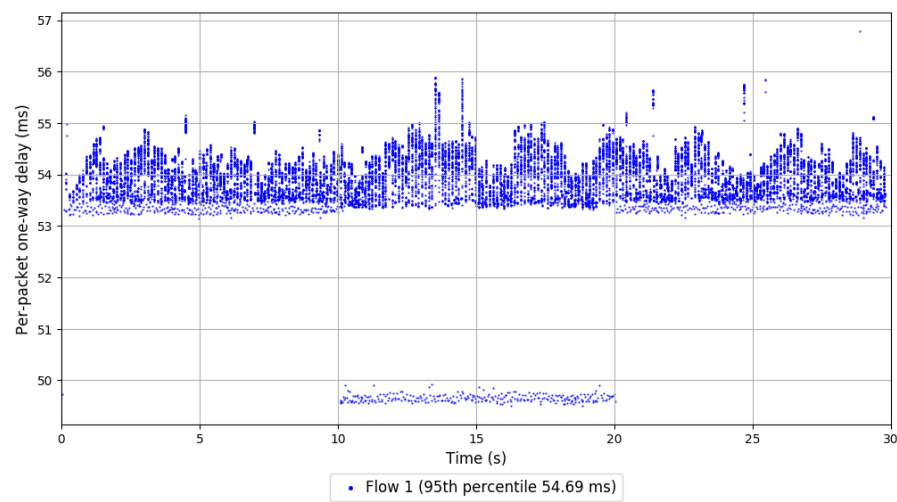
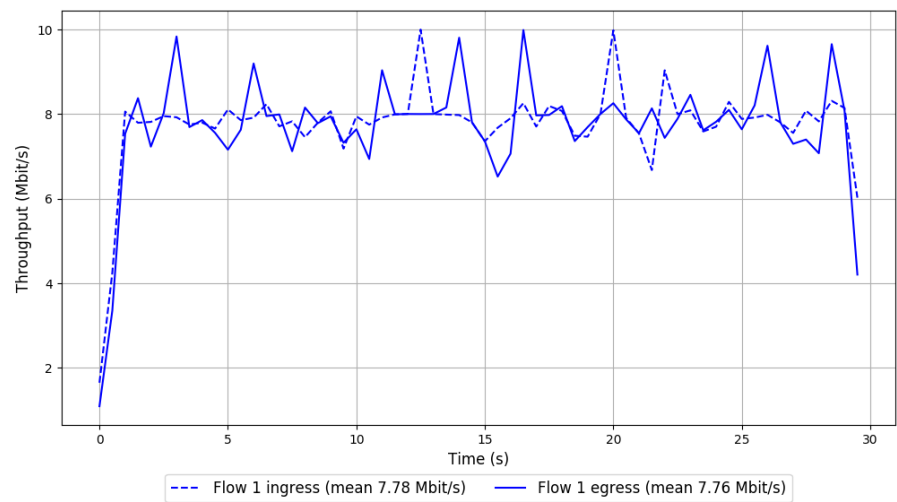
-- Flow 1:

Average throughput: 7.76 Mbit/s

95th percentile per-packet one-way delay: 54.685 ms

Loss rate: 0.48%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-03-06 03:39:09

End at: 2018-03-06 03:39:39

Below is generated by plot.py at 2018-03-06 06:44:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.74 Mbit/s

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

Loss rate: 0.49%

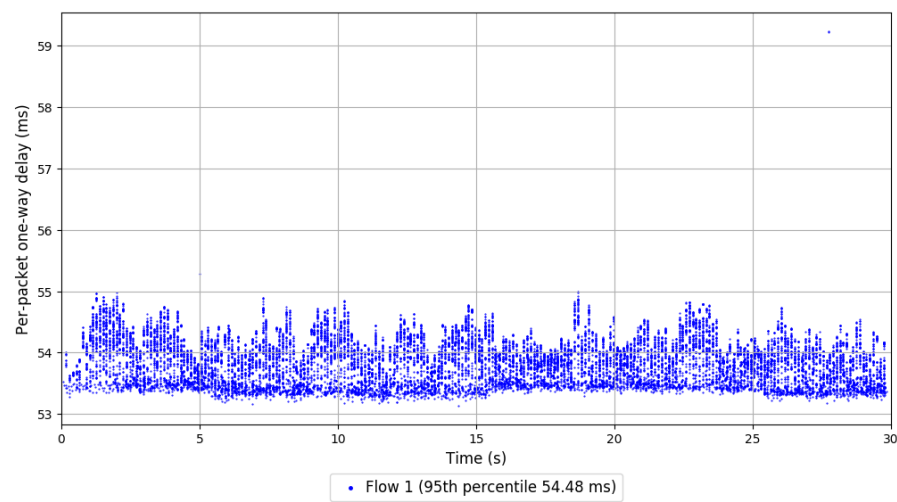
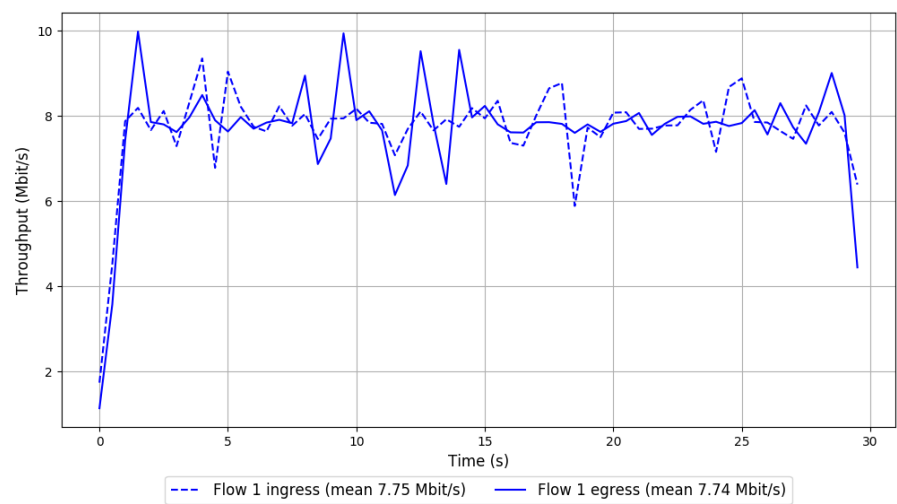
-- Flow 1:

Average throughput: 7.74 Mbit/s

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

Loss rate: 0.49%

Run 10: Report of Sprout — Data Link

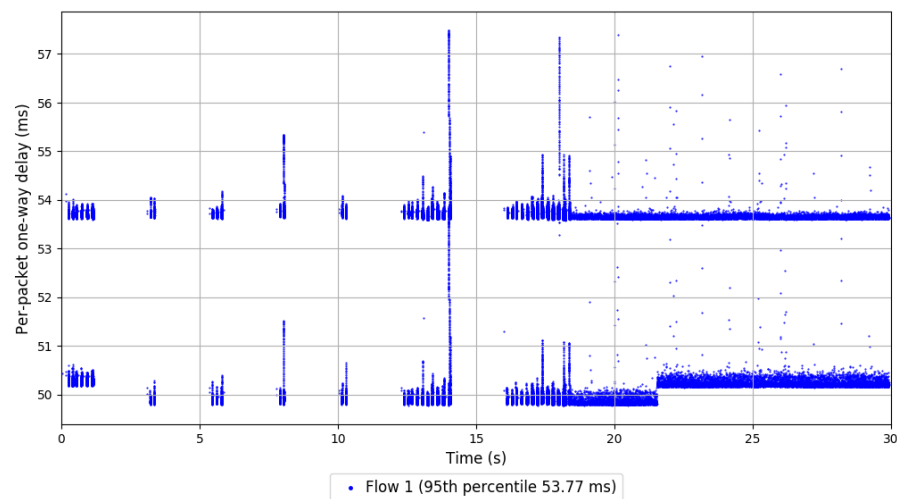
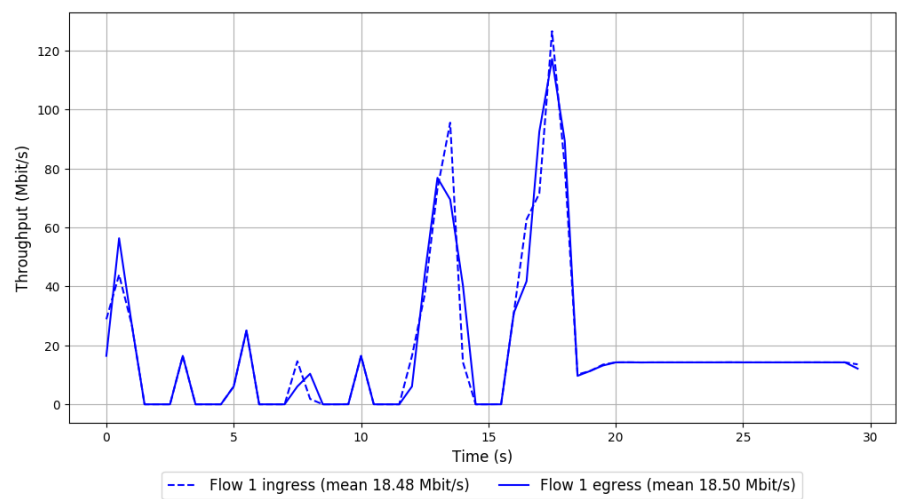


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-03-06 01:28:22
End at: 2018-03-06 01:28:52

# Below is generated by plot.py at 2018-03-06 06:44:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 18.50 Mbit/s
95th percentile per-packet one-way delay: 53.773 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 18.50 Mbit/s
95th percentile per-packet one-way delay: 53.773 ms
Loss rate: 0.27%
```

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

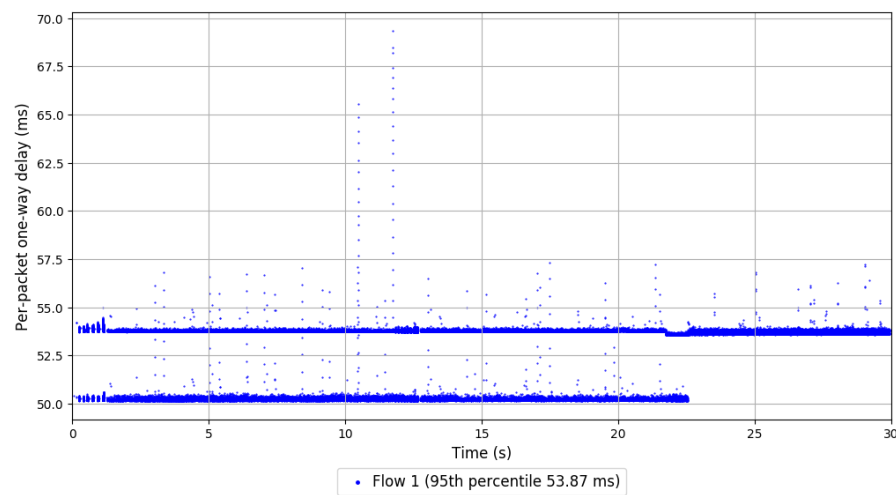
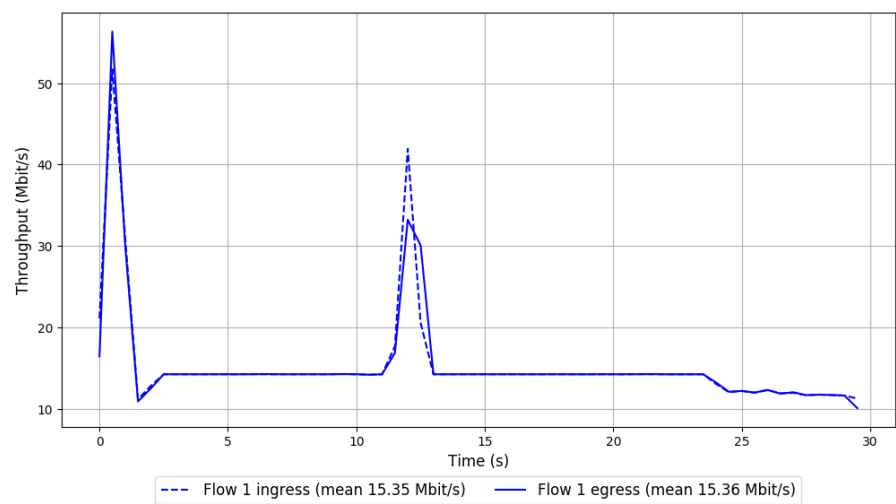


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-03-06 01:42:41
End at: 2018-03-06 01:43:11

# Below is generated by plot.py at 2018-03-06 06:44:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.36 Mbit/s
95th percentile per-packet one-way delay: 53.866 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 15.36 Mbit/s
95th percentile per-packet one-way delay: 53.866 ms
Loss rate: 0.26%
```

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

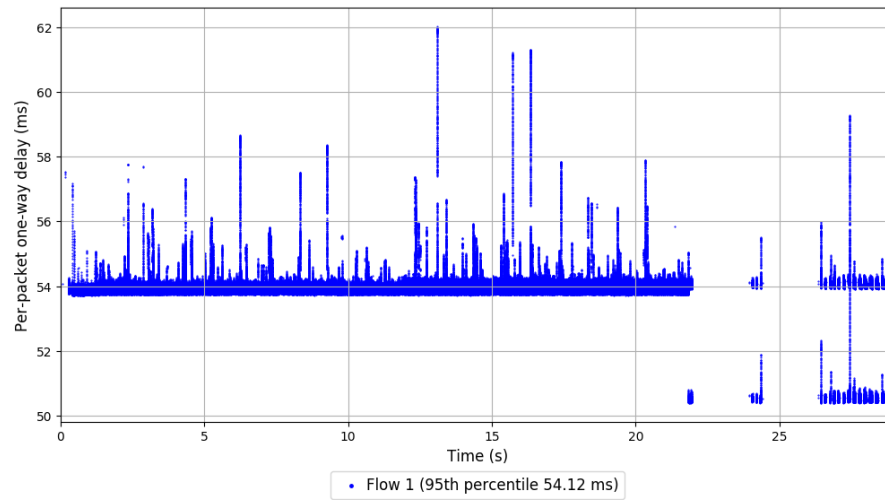
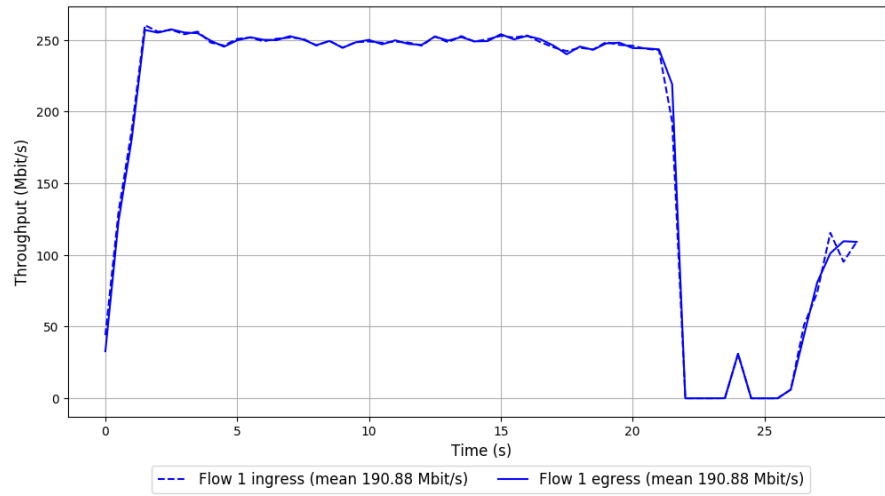


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-03-06 01:57:02
End at: 2018-03-06 01:57:32

# Below is generated by plot.py at 2018-03-06 06:45:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 190.88 Mbit/s
95th percentile per-packet one-way delay: 54.122 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 190.88 Mbit/s
95th percentile per-packet one-way delay: 54.122 ms
Loss rate: 0.00%
```

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

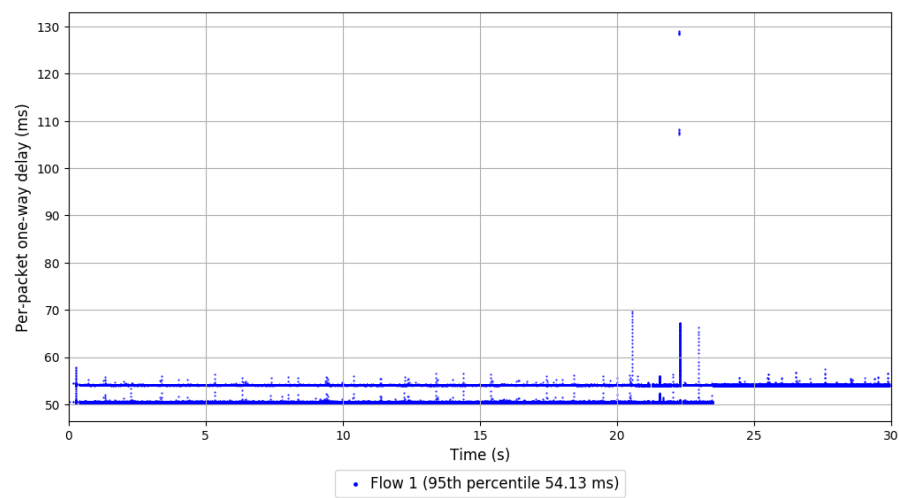
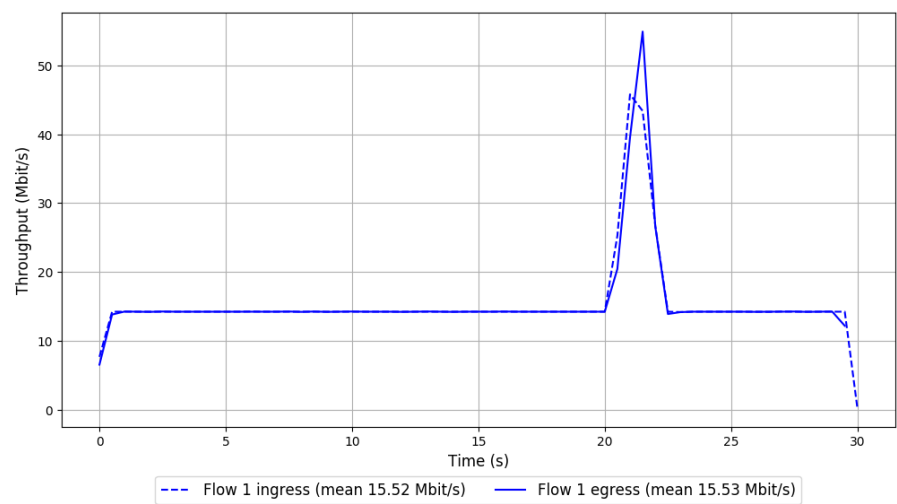


```
Run 4: Statistics of TaoVA-100x

Start at: 2018-03-06 02:11:31
End at: 2018-03-06 02:12:01

# Below is generated by plot.py at 2018-03-06 06:45:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.53 Mbit/s
95th percentile per-packet one-way delay: 54.126 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 15.53 Mbit/s
95th percentile per-packet one-way delay: 54.126 ms
Loss rate: 0.41%
```

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-03-06 02:25:49

End at: 2018-03-06 02:26:19

Below is generated by plot.py at 2018-03-06 06:47:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 241.24 Mbit/s

95th percentile per-packet one-way delay: 53.896 ms

Loss rate: 0.38%

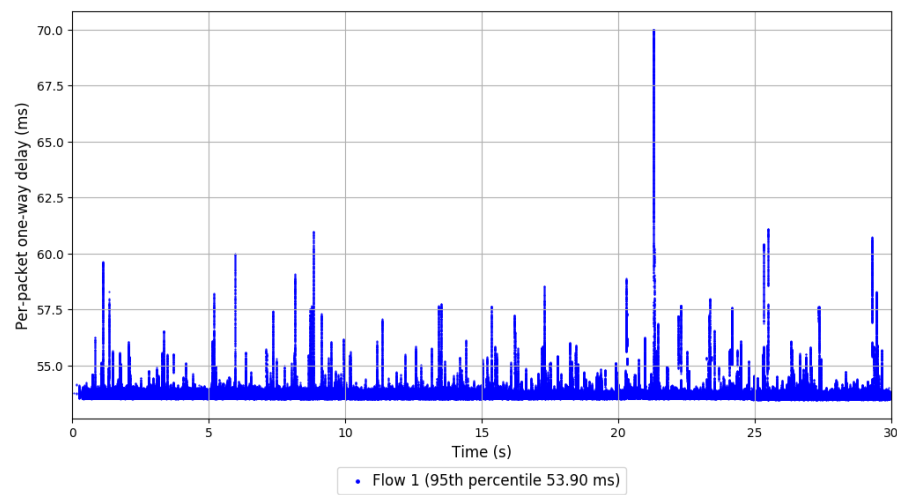
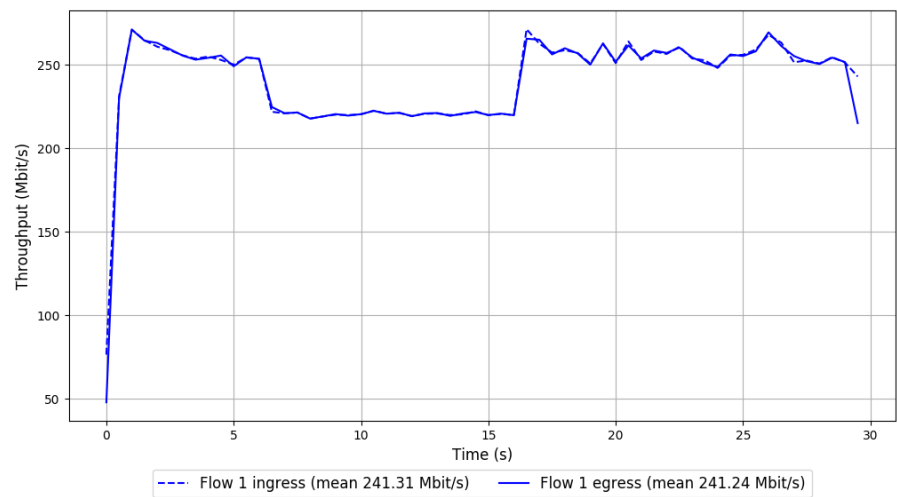
-- Flow 1:

Average throughput: 241.24 Mbit/s

95th percentile per-packet one-way delay: 53.896 ms

Loss rate: 0.38%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-03-06 02:40:33

End at: 2018-03-06 02:41:03

Below is generated by plot.py at 2018-03-06 06:47:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.36 Mbit/s

95th percentile per-packet one-way delay: 53.643 ms

Loss rate: 0.35%

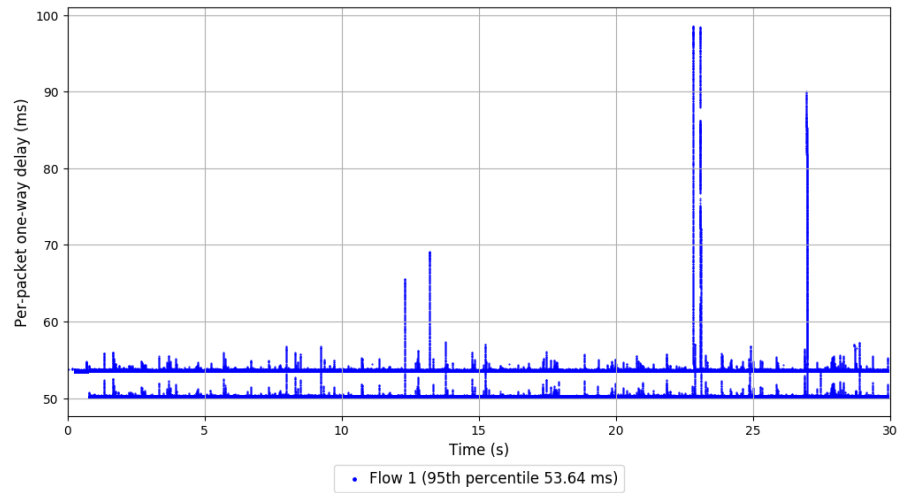
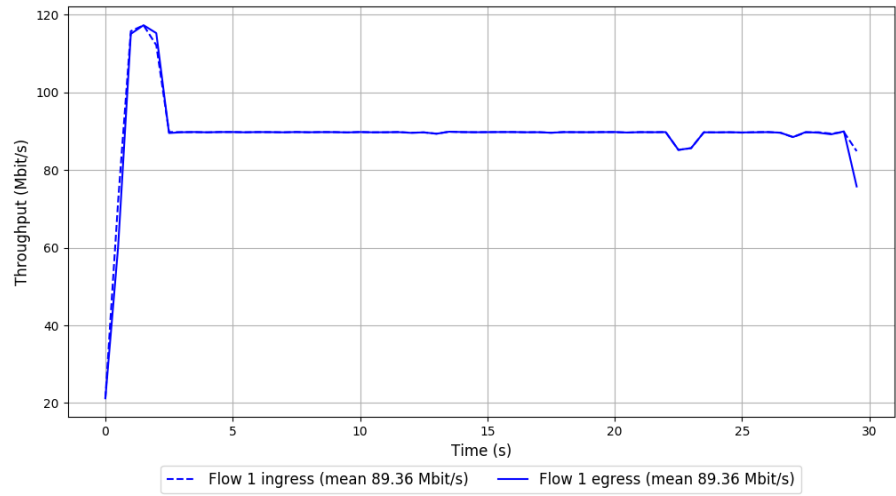
-- Flow 1:

Average throughput: 89.36 Mbit/s

95th percentile per-packet one-way delay: 53.643 ms

Loss rate: 0.35%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-03-06 02:54:48

End at: 2018-03-06 02:55:18

Below is generated by plot.py at 2018-03-06 06:47:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.85 Mbit/s

95th percentile per-packet one-way delay: 53.719 ms

Loss rate: 1.15%

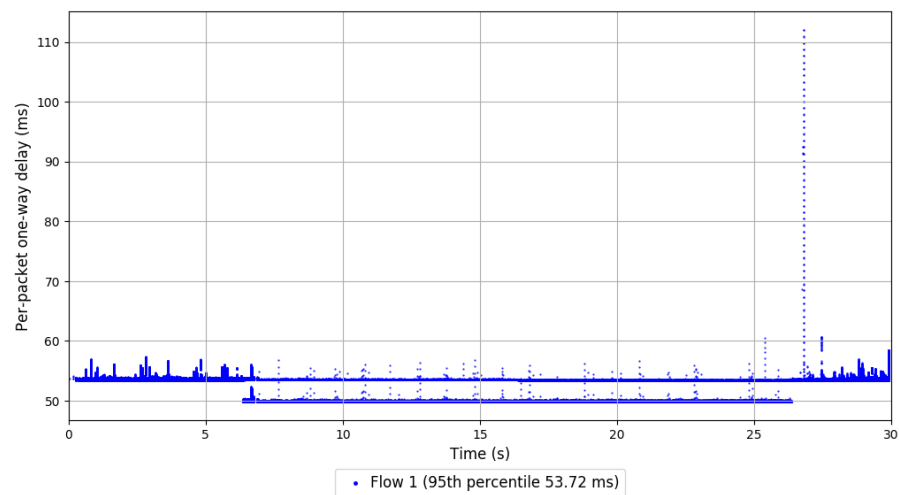
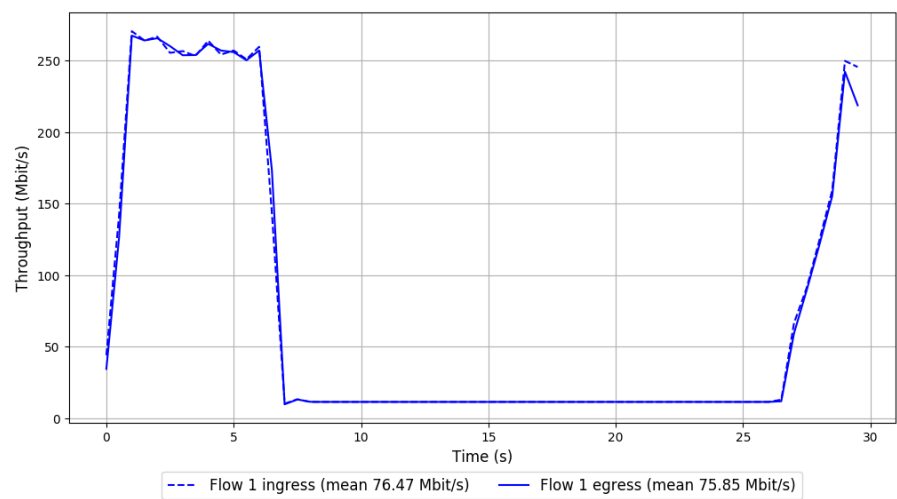
-- Flow 1:

Average throughput: 75.85 Mbit/s

95th percentile per-packet one-way delay: 53.719 ms

Loss rate: 1.15%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-03-06 03:09:14

End at: 2018-03-06 03:09:44

Below is generated by plot.py at 2018-03-06 06:47:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 230.92 Mbit/s

95th percentile per-packet one-way delay: 53.591 ms

Loss rate: 0.62%

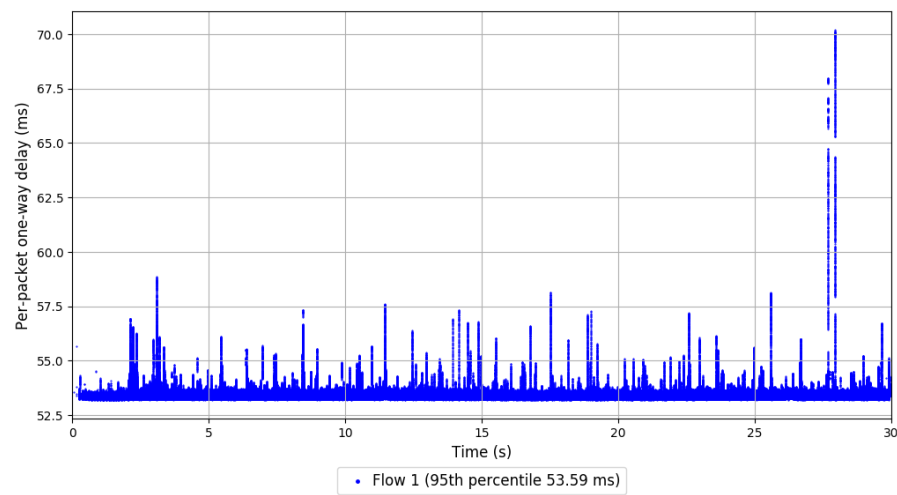
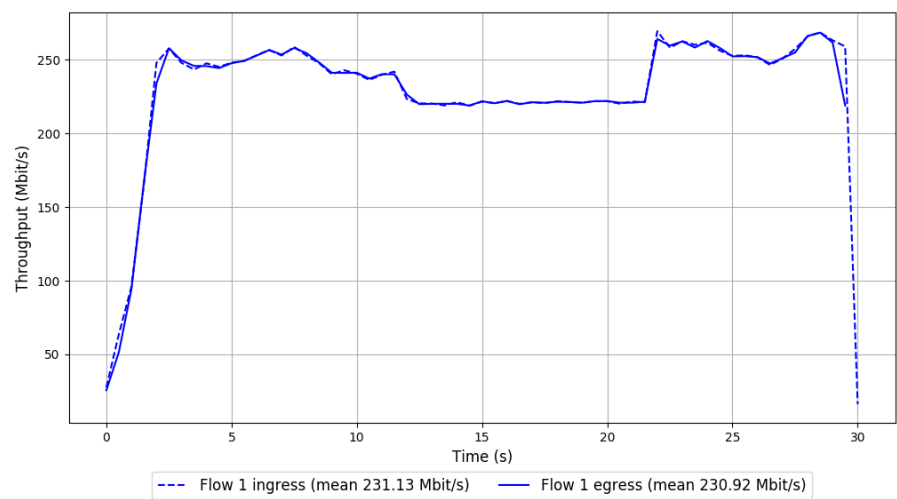
-- Flow 1:

Average throughput: 230.92 Mbit/s

95th percentile per-packet one-way delay: 53.591 ms

Loss rate: 0.62%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-03-06 03:23:49

End at: 2018-03-06 03:24:19

Below is generated by plot.py at 2018-03-06 06:47:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.61 Mbit/s

95th percentile per-packet one-way delay: 53.514 ms

Loss rate: 0.35%

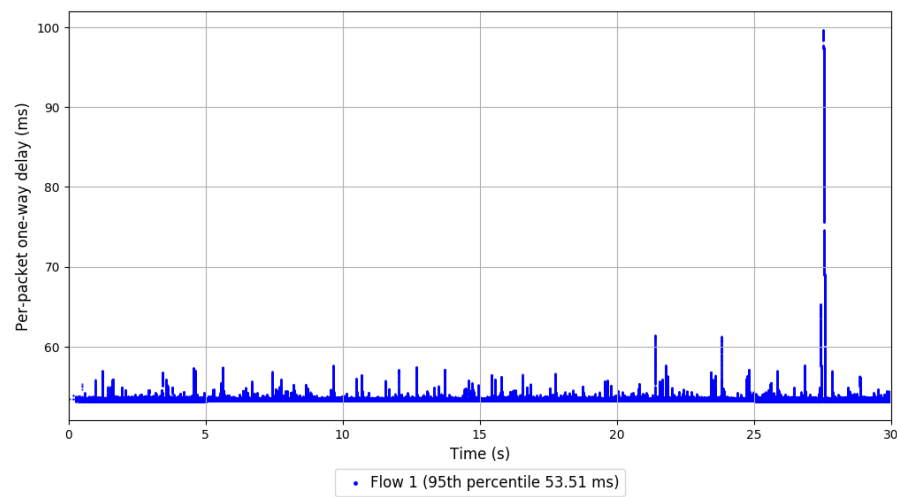
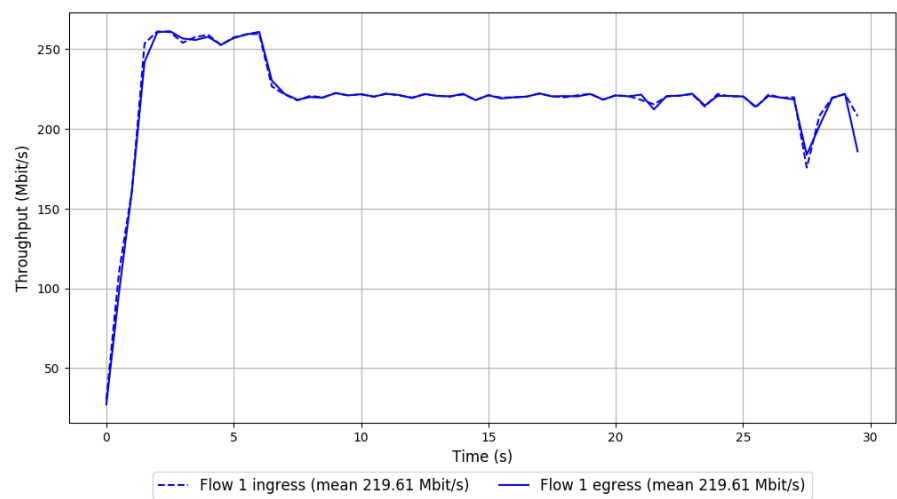
-- Flow 1:

Average throughput: 219.61 Mbit/s

95th percentile per-packet one-way delay: 53.514 ms

Loss rate: 0.35%

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

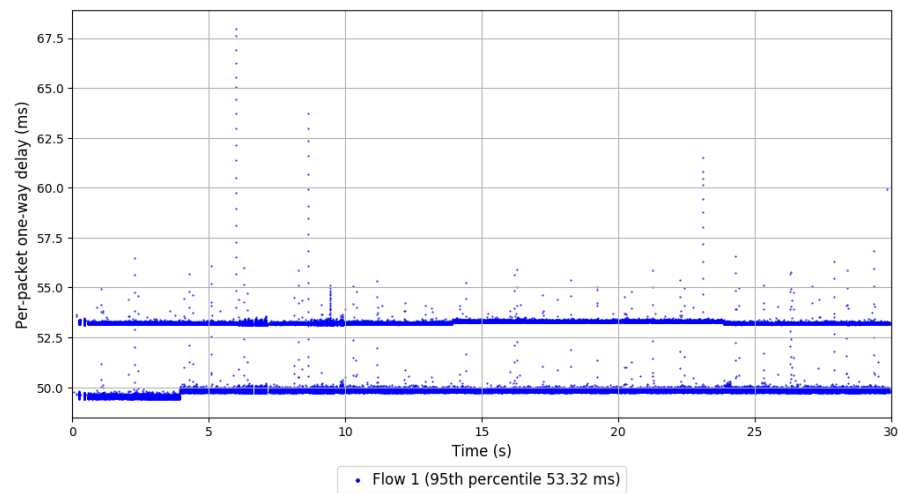
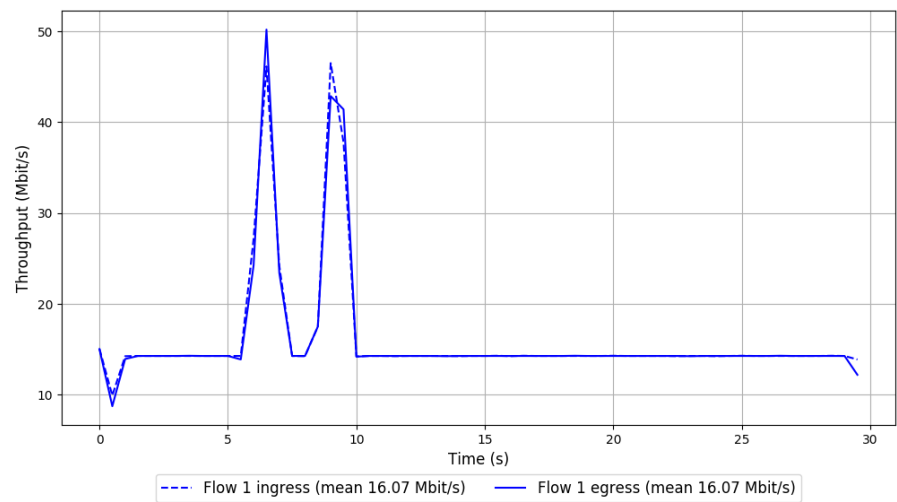


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-03-06 03:38:30
End at: 2018-03-06 03:39:00

# Below is generated by plot.py at 2018-03-06 06:47:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 16.07 Mbit/s
95th percentile per-packet one-way delay: 53.318 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 16.07 Mbit/s
95th percentile per-packet one-way delay: 53.318 ms
Loss rate: 0.33%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-03-06 01:26:20

End at: 2018-03-06 01:26:50

Below is generated by plot.py at 2018-03-06 06:47:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.63 Mbit/s

95th percentile per-packet one-way delay: 54.598 ms

Loss rate: 0.34%

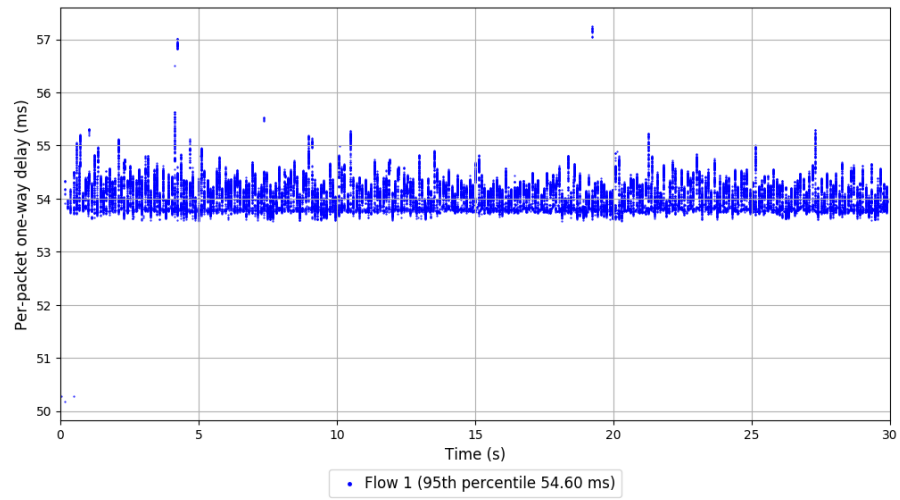
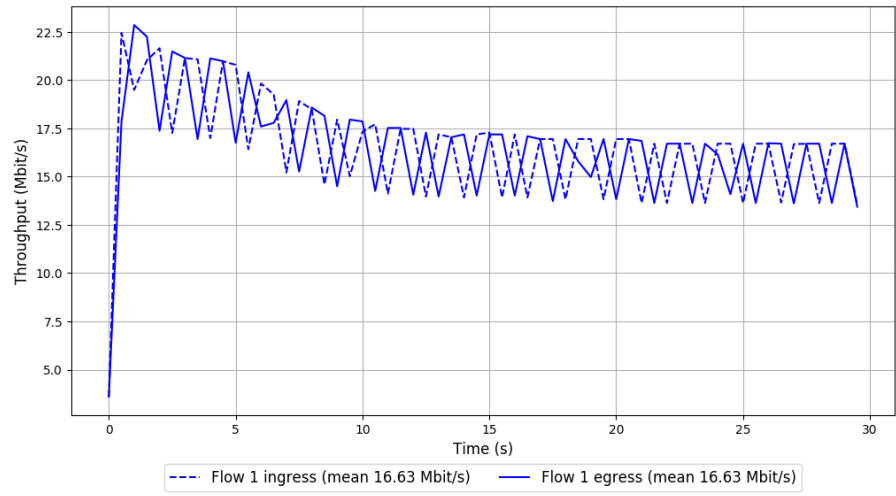
-- Flow 1:

Average throughput: 16.63 Mbit/s

95th percentile per-packet one-way delay: 54.598 ms

Loss rate: 0.34%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-03-06 01:40:36

End at: 2018-03-06 01:41:06

Below is generated by plot.py at 2018-03-06 06:47:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.38 Mbit/s

95th percentile per-packet one-way delay: 55.074 ms

Loss rate: 0.39%

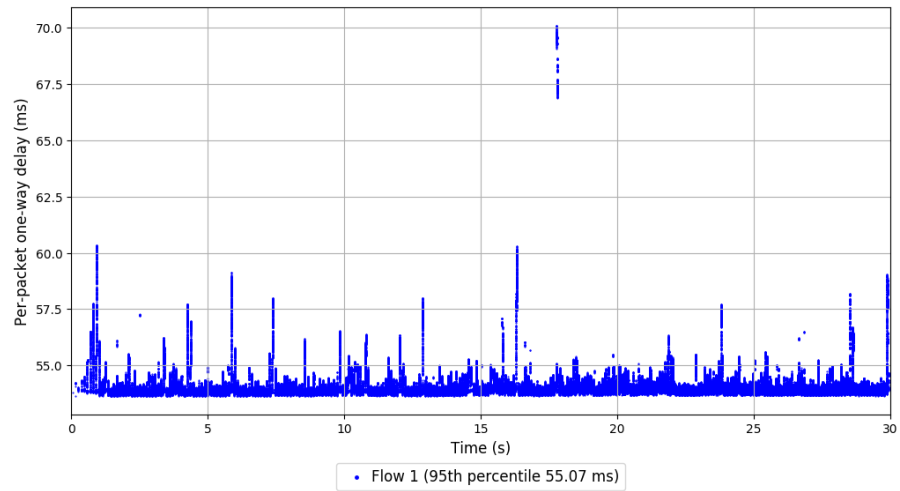
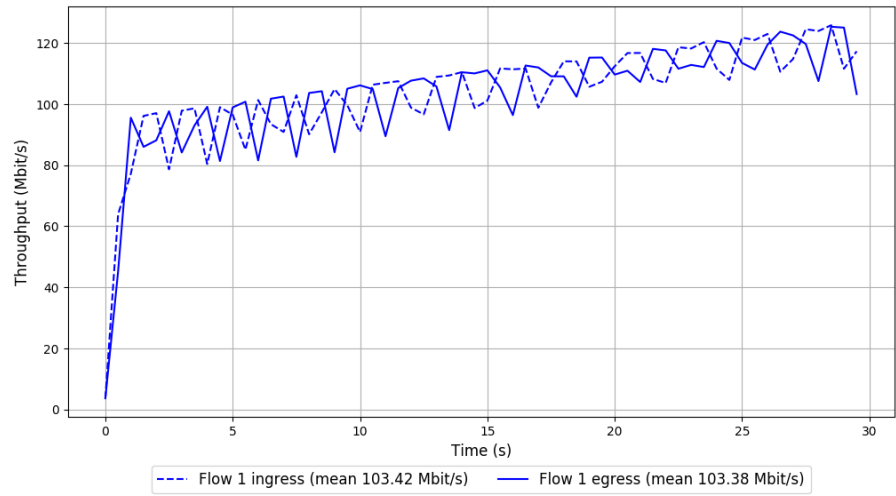
-- Flow 1:

Average throughput: 103.38 Mbit/s

95th percentile per-packet one-way delay: 55.074 ms

Loss rate: 0.39%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-03-06 01:54:55

End at: 2018-03-06 01:55:25

Below is generated by plot.py at 2018-03-06 06:47:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 138.36 Mbit/s

95th percentile per-packet one-way delay: 60.998 ms

Loss rate: 0.09%

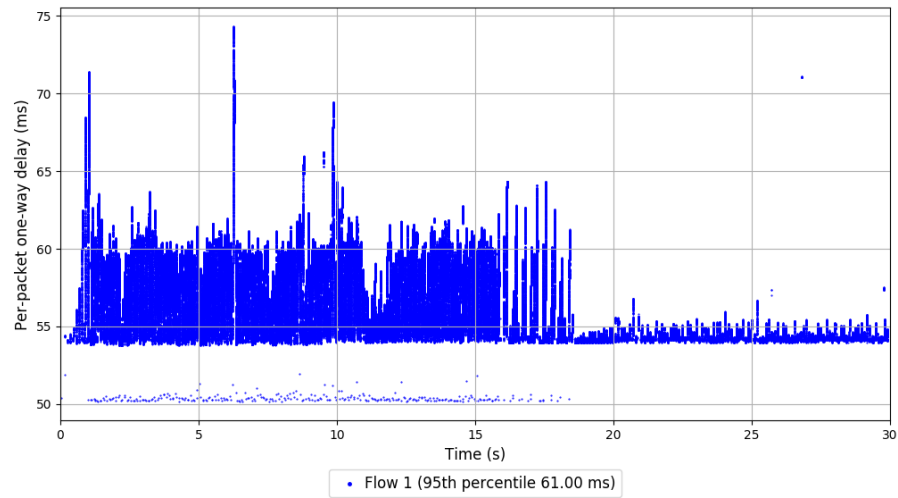
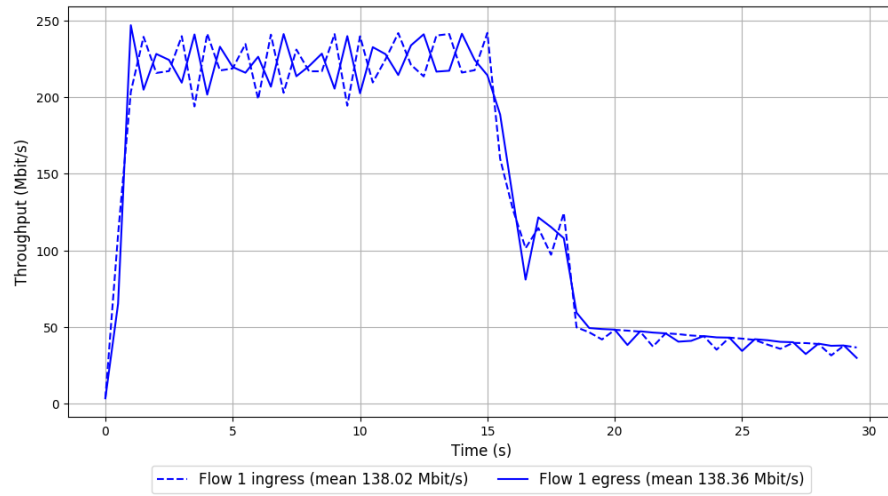
-- Flow 1:

Average throughput: 138.36 Mbit/s

95th percentile per-packet one-way delay: 60.998 ms

Loss rate: 0.09%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-03-06 02:09:26

End at: 2018-03-06 02:09:56

Below is generated by plot.py at 2018-03-06 06:47:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.78 Mbit/s

95th percentile per-packet one-way delay: 58.897 ms

Loss rate: 0.27%

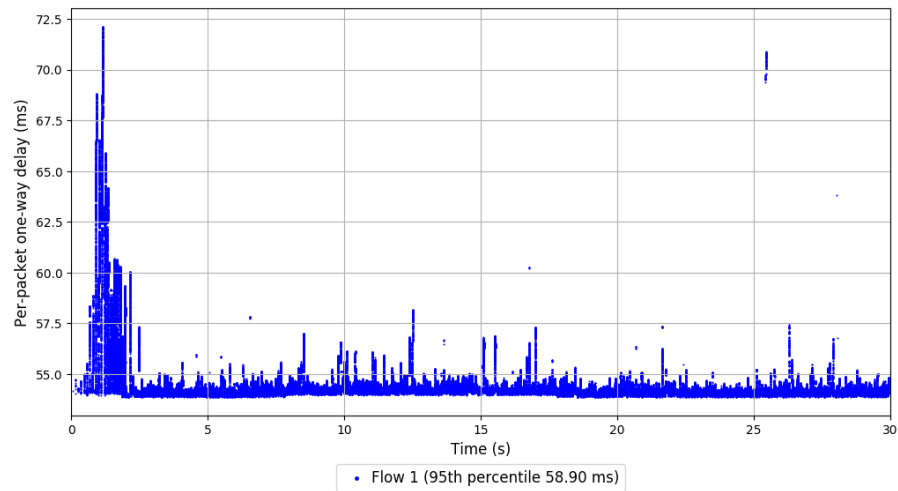
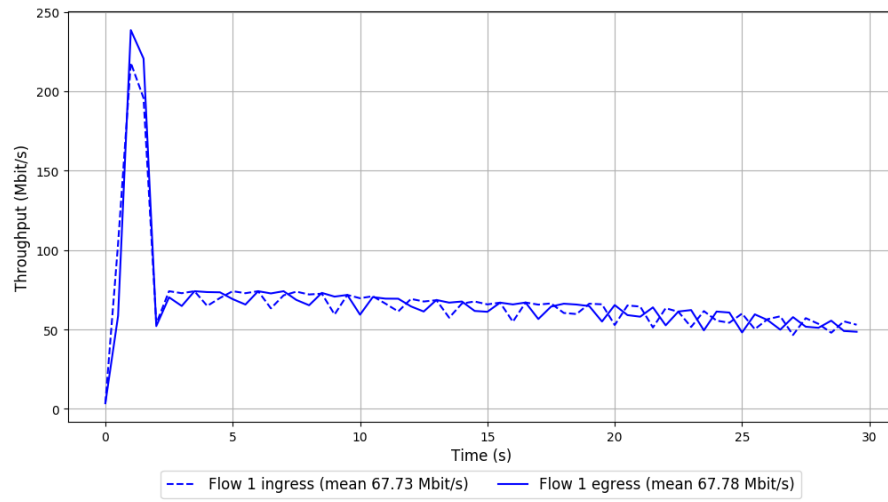
-- Flow 1:

Average throughput: 67.78 Mbit/s

95th percentile per-packet one-way delay: 58.897 ms

Loss rate: 0.27%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-03-06 02:23:44

End at: 2018-03-06 02:24:14

Below is generated by plot.py at 2018-03-06 06:47:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.97 Mbit/s

95th percentile per-packet one-way delay: 54.761 ms

Loss rate: 0.40%

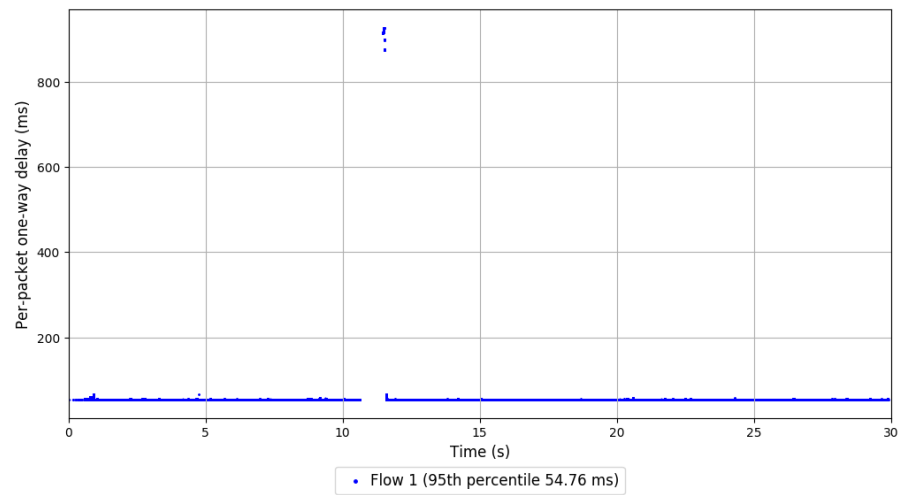
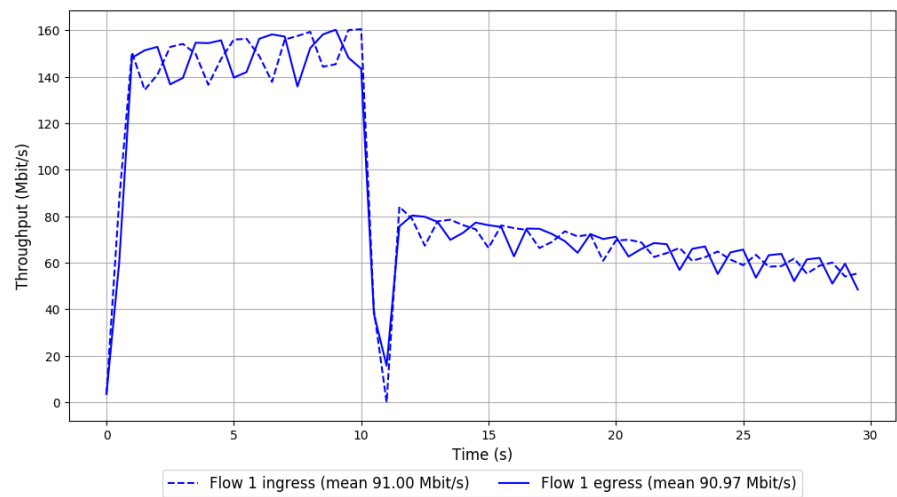
-- Flow 1:

Average throughput: 90.97 Mbit/s

95th percentile per-packet one-way delay: 54.761 ms

Loss rate: 0.40%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-03-06 02:38:25

End at: 2018-03-06 02:38:55

Below is generated by plot.py at 2018-03-06 06:47:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 141.57 Mbit/s

95th percentile per-packet one-way delay: 59.937 ms

Loss rate: 0.21%

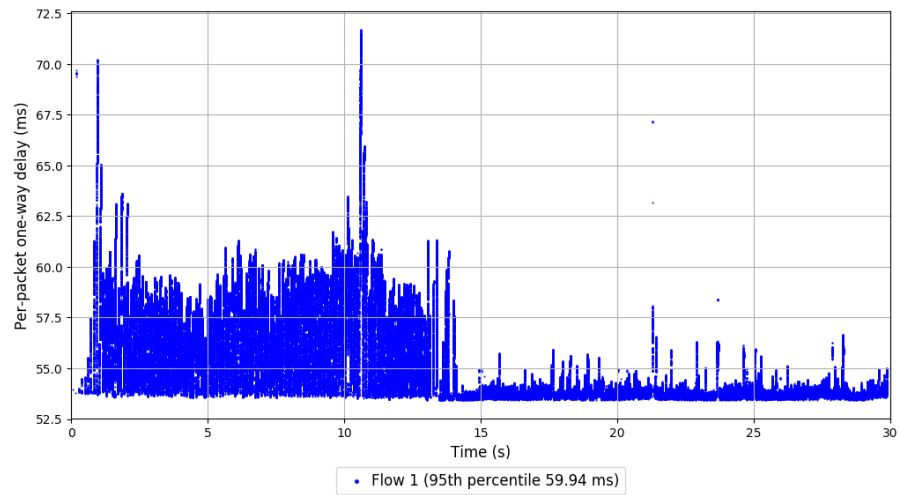
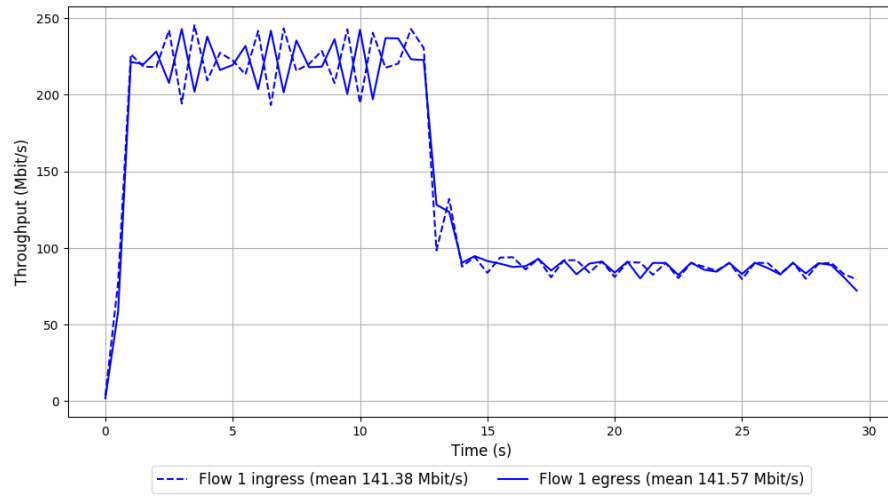
-- Flow 1:

Average throughput: 141.57 Mbit/s

95th percentile per-packet one-way delay: 59.937 ms

Loss rate: 0.21%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-03-06 02:52:41

End at: 2018-03-06 02:53:11

Below is generated by plot.py at 2018-03-06 06:47:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.13 Mbit/s

95th percentile per-packet one-way delay: 59.112 ms

Loss rate: 0.18%

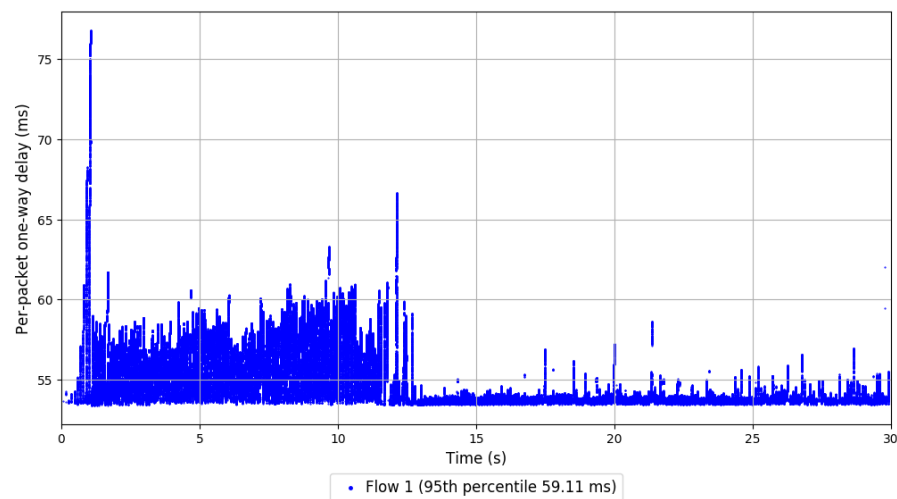
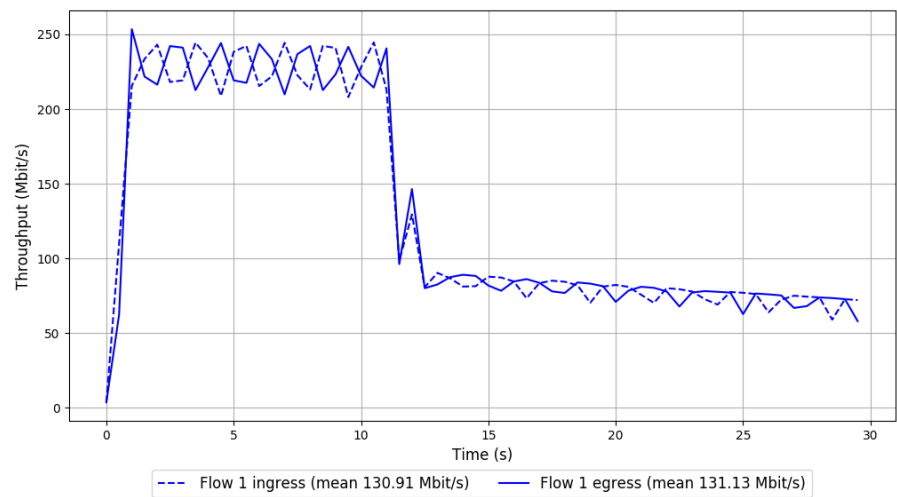
-- Flow 1:

Average throughput: 131.13 Mbit/s

95th percentile per-packet one-way delay: 59.112 ms

Loss rate: 0.18%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-03-06 03:07:02

End at: 2018-03-06 03:07:32

Below is generated by plot.py at 2018-03-06 06:48:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.86 Mbit/s

95th percentile per-packet one-way delay: 60.068 ms

Loss rate: 0.14%

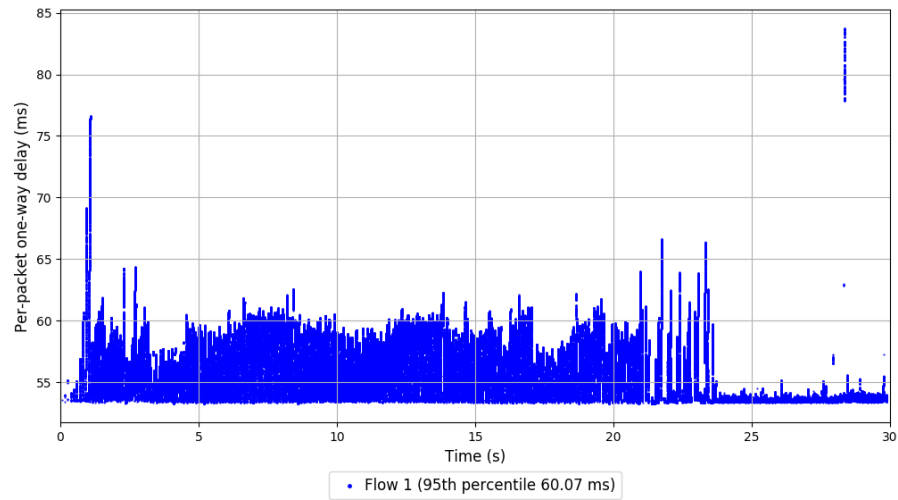
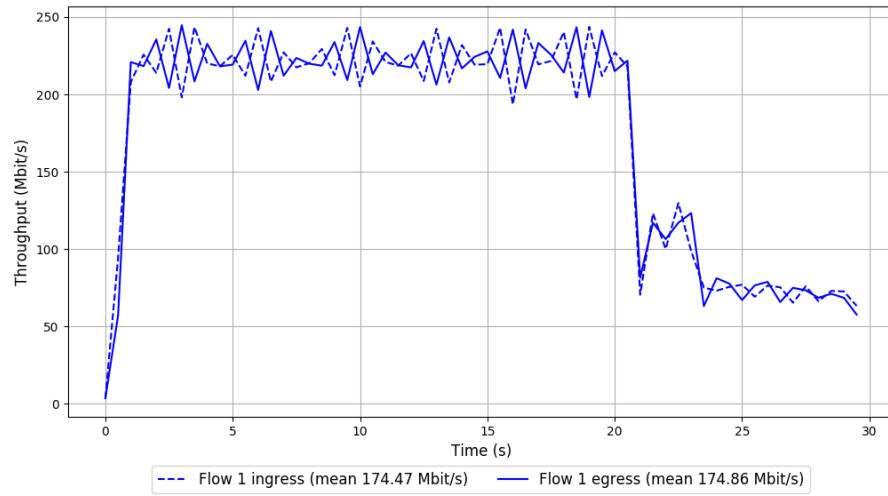
-- Flow 1:

Average throughput: 174.86 Mbit/s

95th percentile per-packet one-way delay: 60.068 ms

Loss rate: 0.14%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-03-06 03:21:45

End at: 2018-03-06 03:22:15

Below is generated by plot.py at 2018-03-06 06:48:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.73 Mbit/s

95th percentile per-packet one-way delay: 55.984 ms

Loss rate: 0.29%

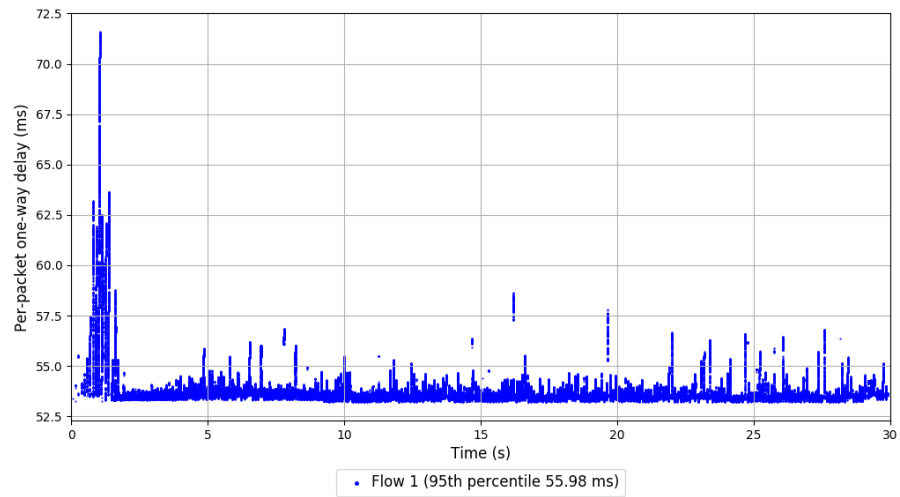
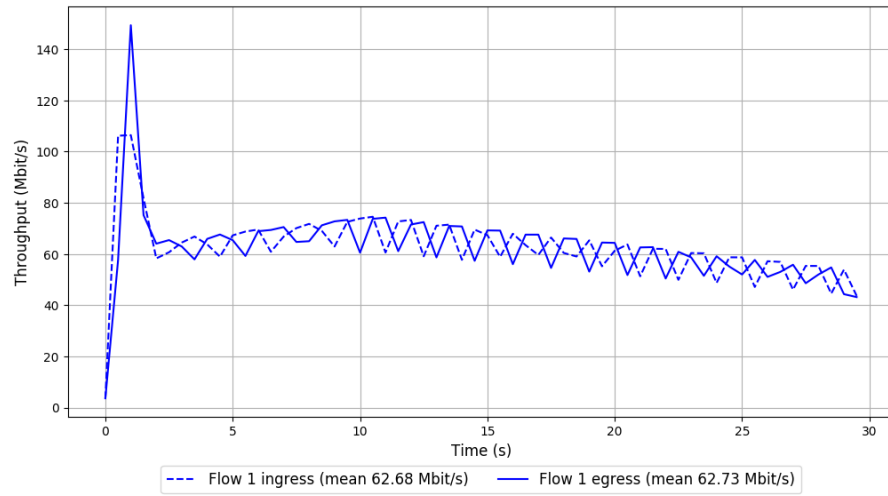
-- Flow 1:

Average throughput: 62.73 Mbit/s

95th percentile per-packet one-way delay: 55.984 ms

Loss rate: 0.29%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-03-06 03:36:25

End at: 2018-03-06 03:36:55

Below is generated by plot.py at 2018-03-06 06:48:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.41 Mbit/s

95th percentile per-packet one-way delay: 55.511 ms

Loss rate: 0.34%

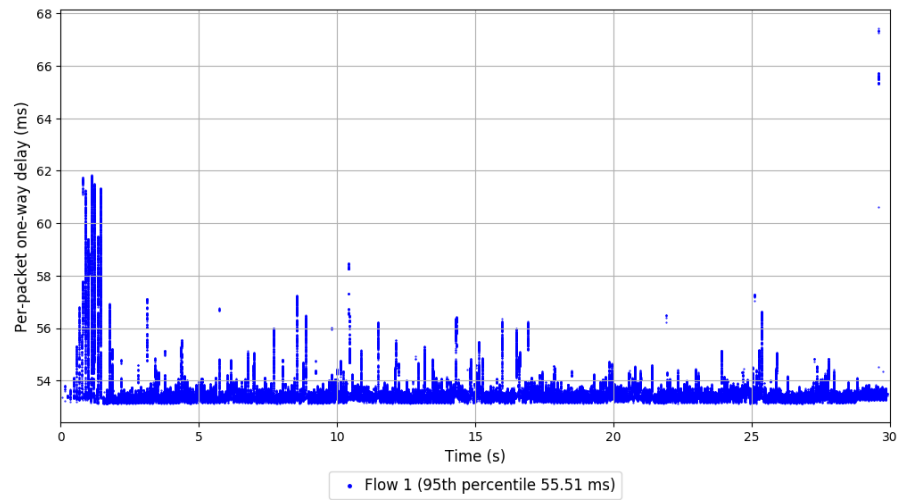
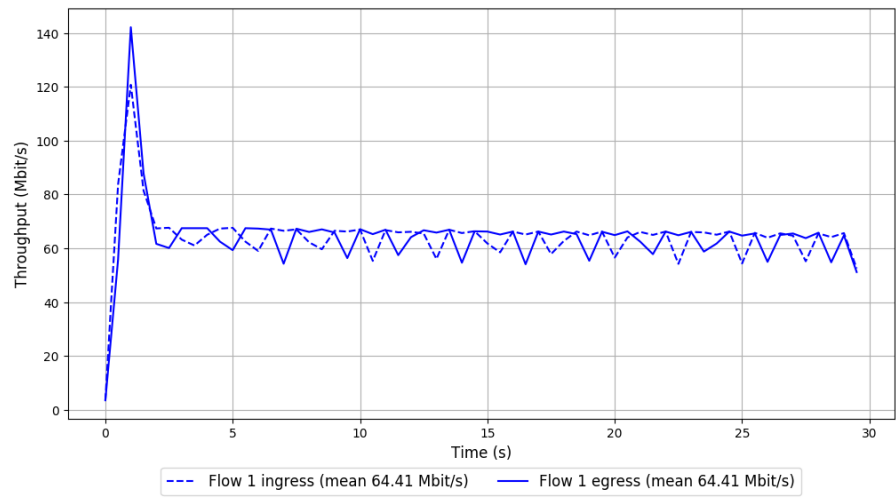
-- Flow 1:

Average throughput: 64.41 Mbit/s

95th percentile per-packet one-way delay: 55.511 ms

Loss rate: 0.34%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-03-06 01:32:57

End at: 2018-03-06 01:33:27

Below is generated by plot.py at 2018-03-06 06:50:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.81 Mbit/s

95th percentile per-packet one-way delay: 78.252 ms

Loss rate: 0.87%

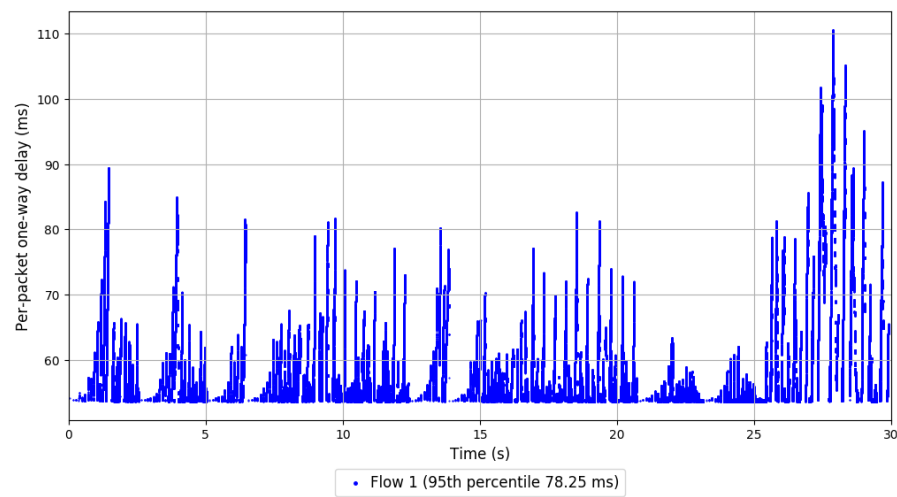
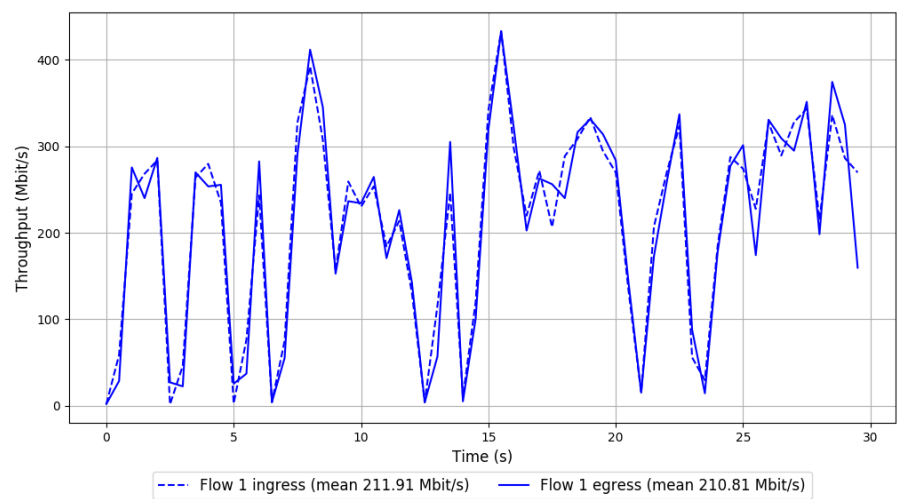
-- Flow 1:

Average throughput: 210.81 Mbit/s

95th percentile per-packet one-way delay: 78.252 ms

Loss rate: 0.87%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-03-06 01:47:14

End at: 2018-03-06 01:47:44

Below is generated by plot.py at 2018-03-06 06:50:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.70 Mbit/s

95th percentile per-packet one-way delay: 68.913 ms

Loss rate: 0.43%

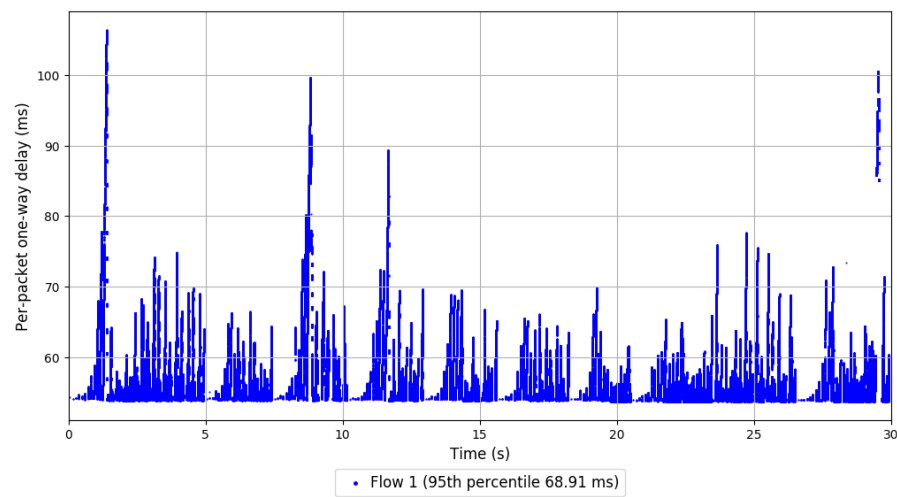
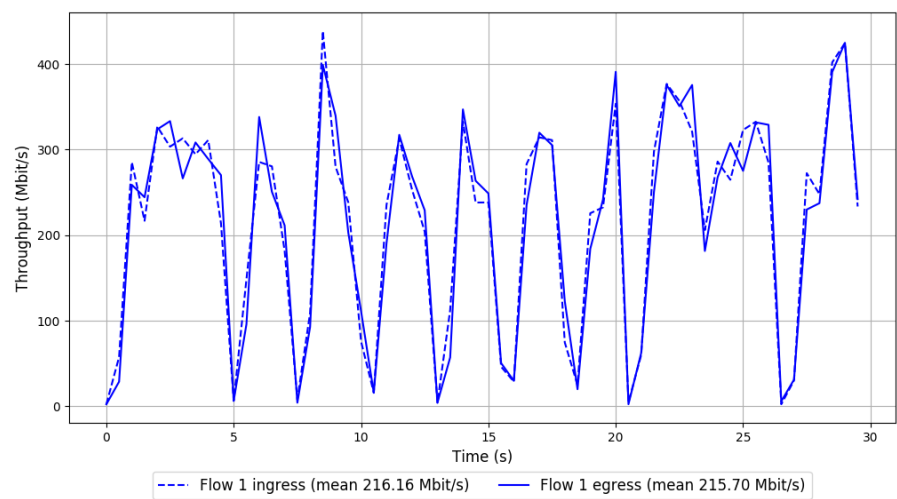
-- Flow 1:

Average throughput: 215.70 Mbit/s

95th percentile per-packet one-way delay: 68.913 ms

Loss rate: 0.43%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-03-06 02:01:47

End at: 2018-03-06 02:02:17

Below is generated by plot.py at 2018-03-06 06:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 274.61 Mbit/s

95th percentile per-packet one-way delay: 204.293 ms

Loss rate: 1.47%

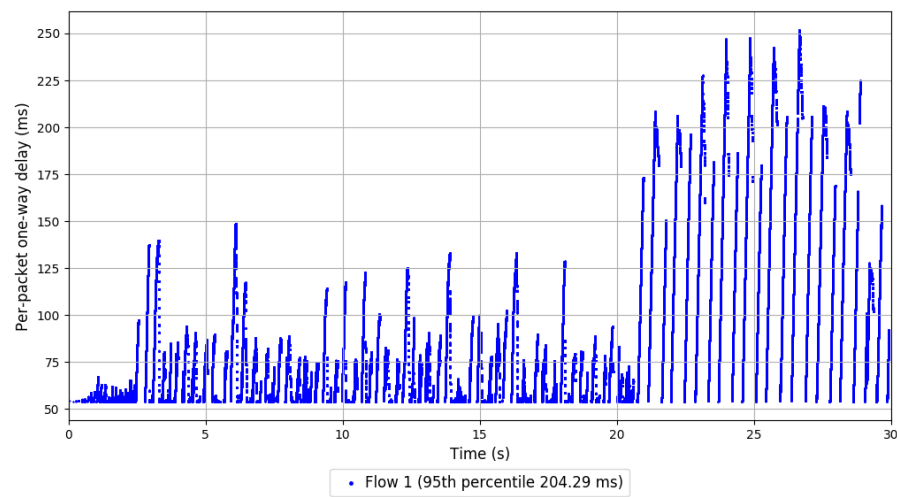
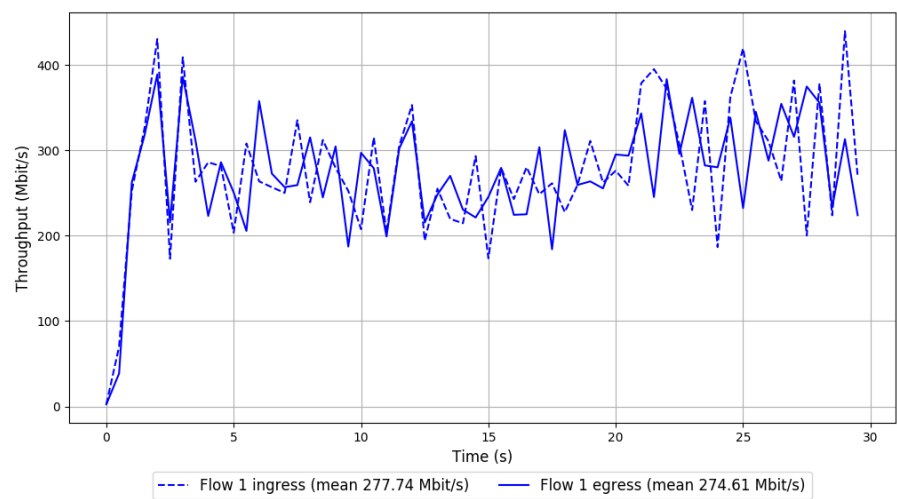
-- Flow 1:

Average throughput: 274.61 Mbit/s

95th percentile per-packet one-way delay: 204.293 ms

Loss rate: 1.47%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-03-06 02:16:05

End at: 2018-03-06 02:16:35

Below is generated by plot.py at 2018-03-06 06:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 270.38 Mbit/s

95th percentile per-packet one-way delay: 99.123 ms

Loss rate: 0.42%

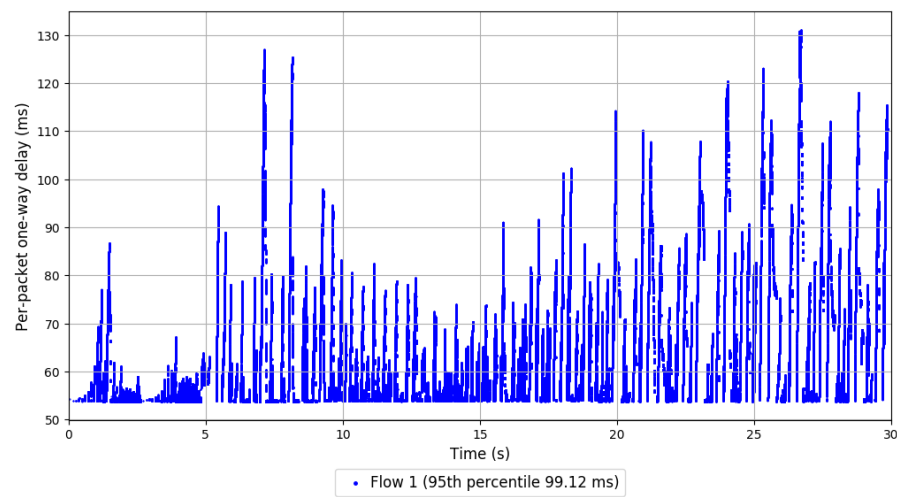
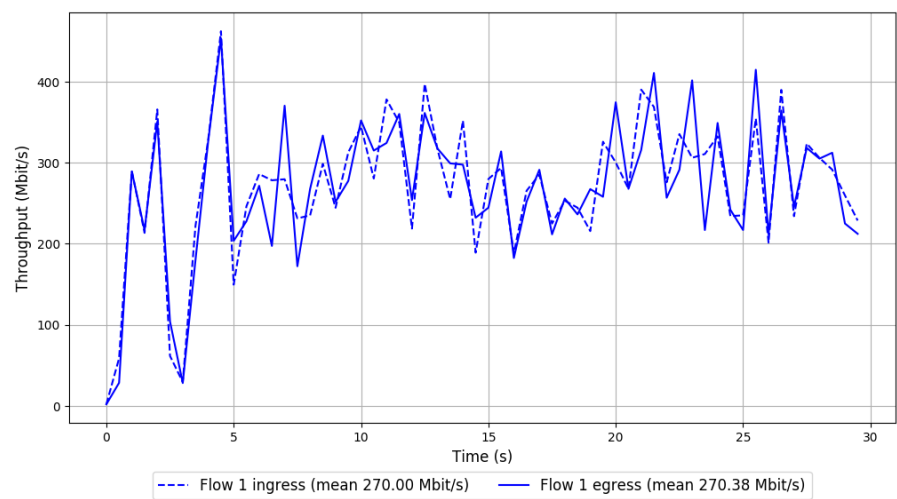
-- Flow 1:

Average throughput: 270.38 Mbit/s

95th percentile per-packet one-way delay: 99.123 ms

Loss rate: 0.42%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-03-06 02:30:36

End at: 2018-03-06 02:31:06

Below is generated by plot.py at 2018-03-06 06:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 243.52 Mbit/s

95th percentile per-packet one-way delay: 170.165 ms

Loss rate: 0.61%

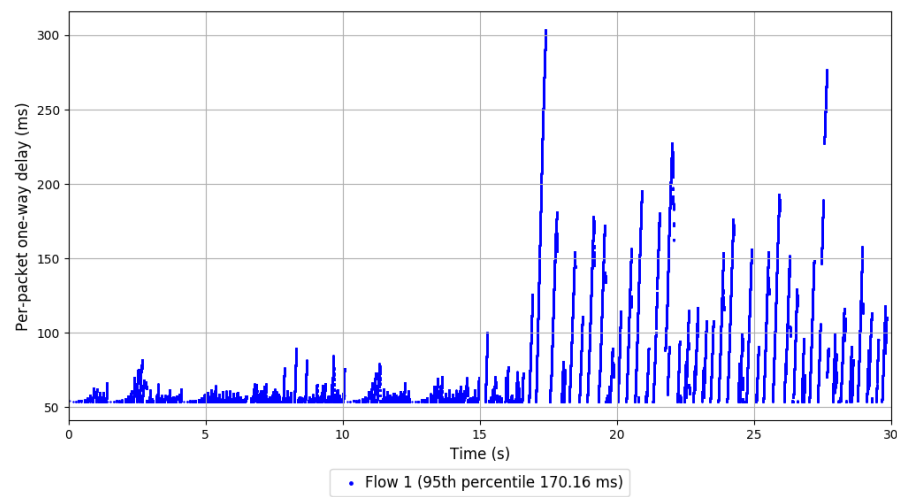
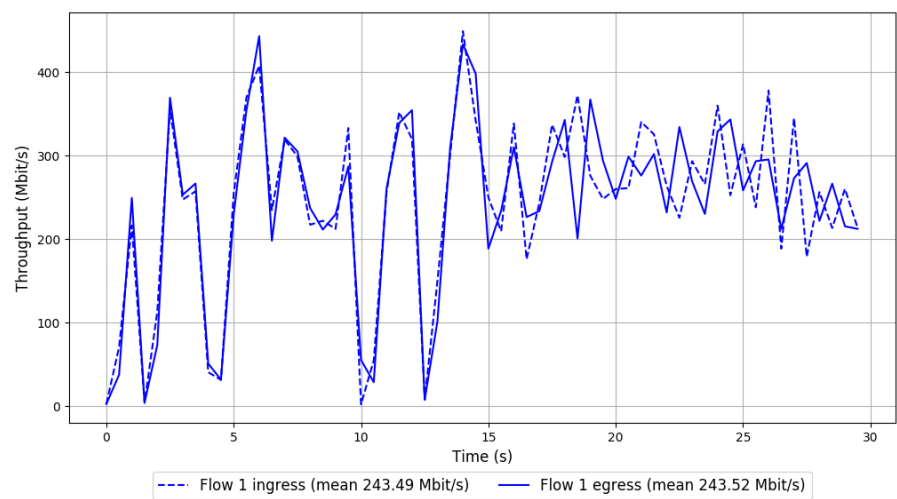
-- Flow 1:

Average throughput: 243.52 Mbit/s

95th percentile per-packet one-way delay: 170.165 ms

Loss rate: 0.61%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-03-06 02:45:08

End at: 2018-03-06 02:45:38

Below is generated by plot.py at 2018-03-06 06:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.78 Mbit/s

95th percentile per-packet one-way delay: 86.442 ms

Loss rate: 0.14%

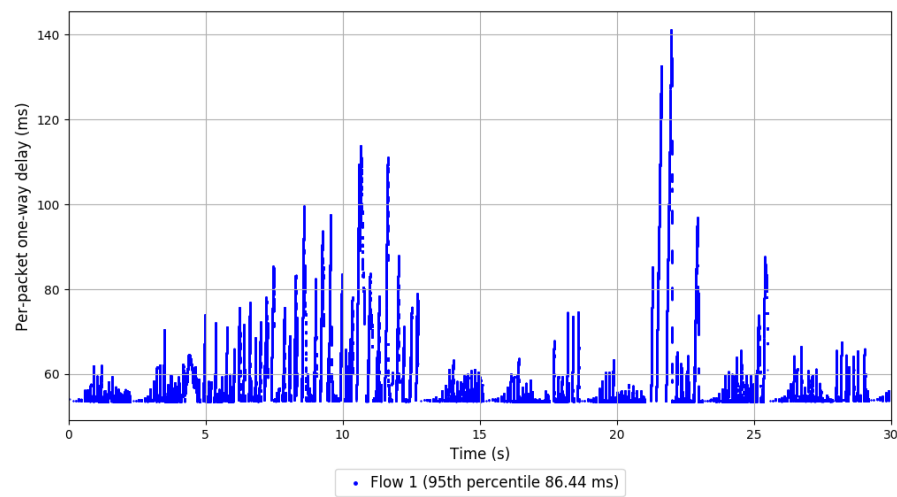
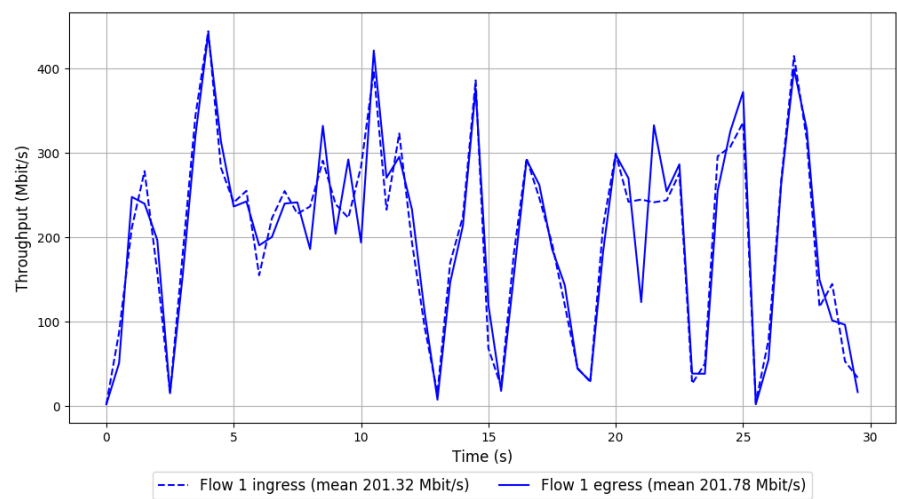
-- Flow 1:

Average throughput: 201.78 Mbit/s

95th percentile per-packet one-way delay: 86.442 ms

Loss rate: 0.14%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-03-06 02:59:27

End at: 2018-03-06 02:59:57

Below is generated by plot.py at 2018-03-06 06:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.94 Mbit/s

95th percentile per-packet one-way delay: 111.227 ms

Loss rate: 1.22%

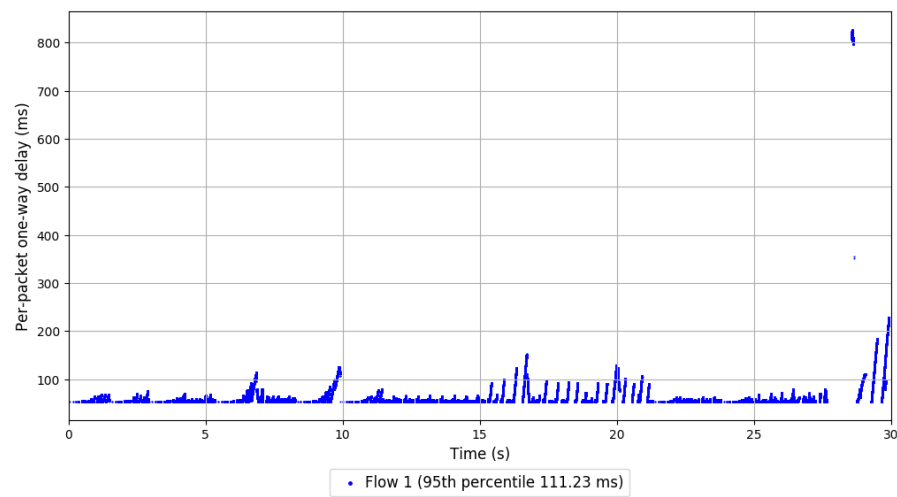
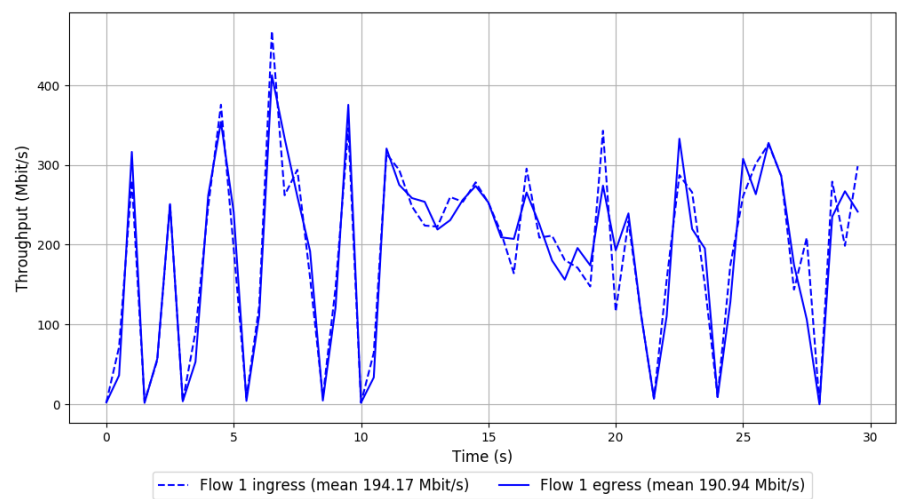
-- Flow 1:

Average throughput: 190.94 Mbit/s

95th percentile per-packet one-way delay: 111.227 ms

Loss rate: 1.22%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-03-06 03:14:05

End at: 2018-03-06 03:14:35

Below is generated by plot.py at 2018-03-06 06:53:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 286.38 Mbit/s

95th percentile per-packet one-way delay: 195.973 ms

Loss rate: 0.19%

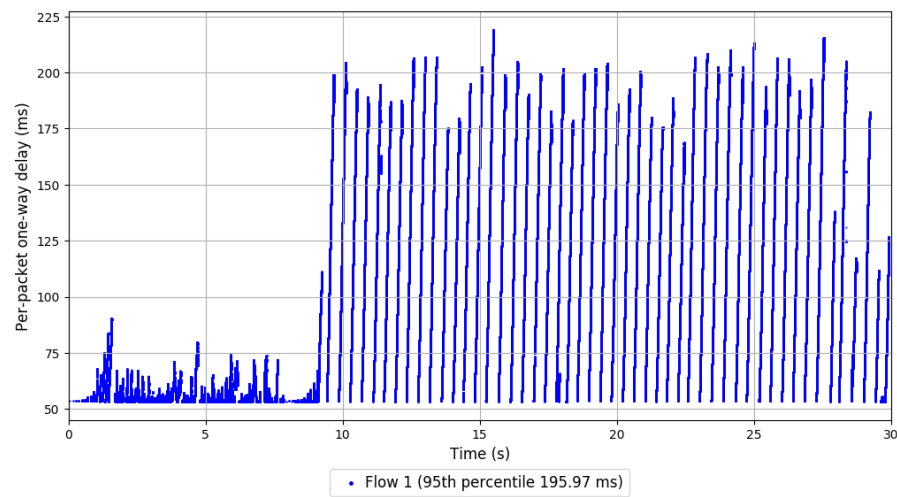
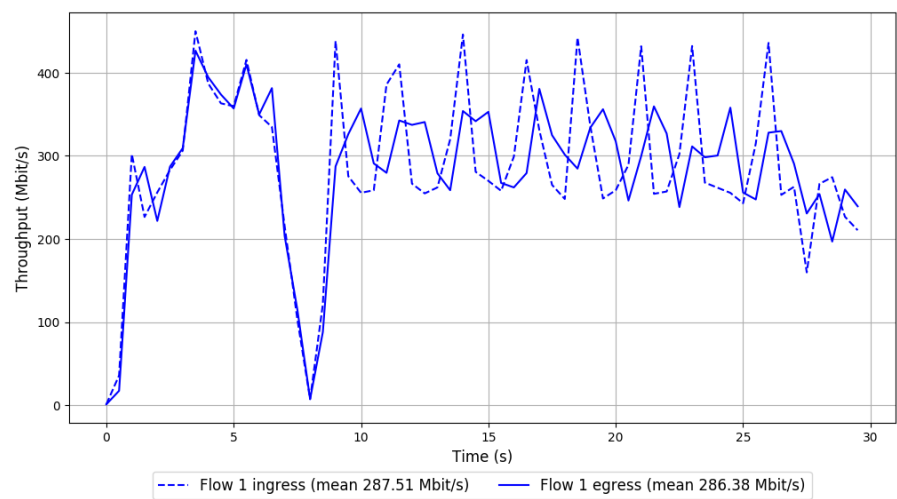
-- Flow 1:

Average throughput: 286.38 Mbit/s

95th percentile per-packet one-way delay: 195.973 ms

Loss rate: 0.19%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-03-06 03:28:41

End at: 2018-03-06 03:29:11

Below is generated by plot.py at 2018-03-06 06:54:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 232.39 Mbit/s

95th percentile per-packet one-way delay: 90.588 ms

Loss rate: 0.67%

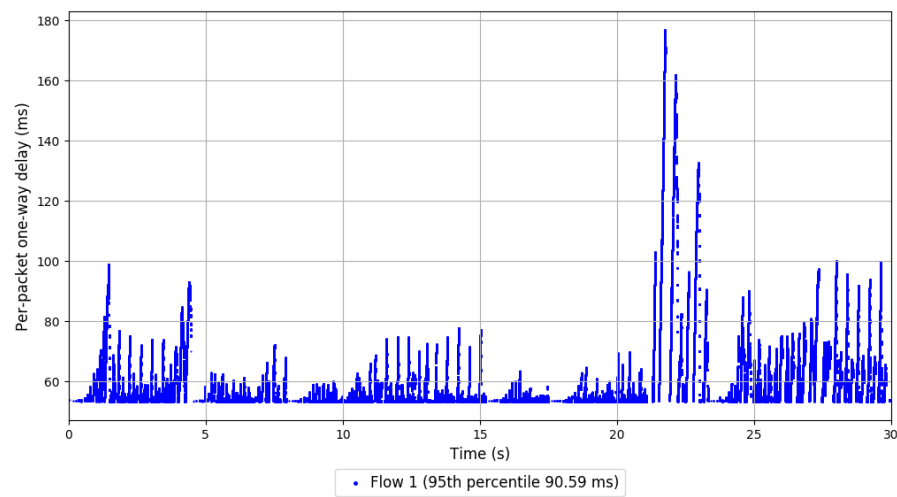
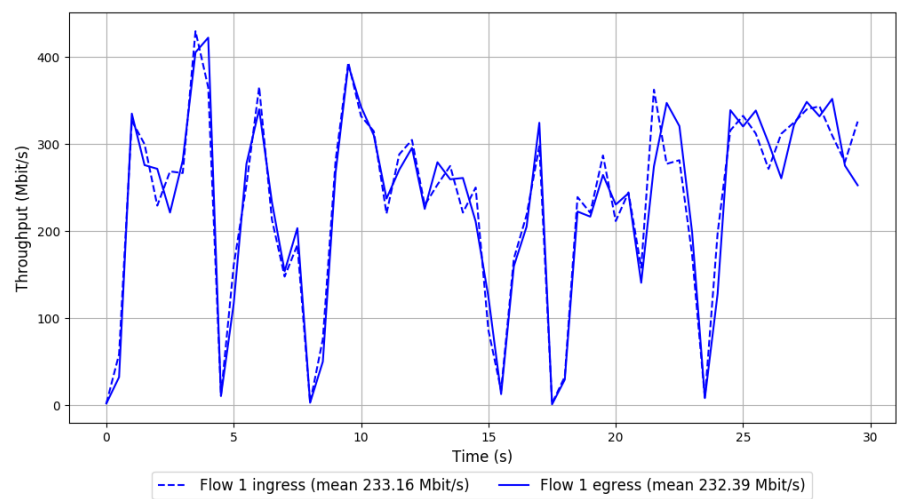
-- Flow 1:

Average throughput: 232.39 Mbit/s

95th percentile per-packet one-way delay: 90.588 ms

Loss rate: 0.67%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-03-06 03:43:01

End at: 2018-03-06 03:43:31

Below is generated by plot.py at 2018-03-06 06:54:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.65 Mbit/s

95th percentile per-packet one-way delay: 106.754 ms

Loss rate: 0.30%

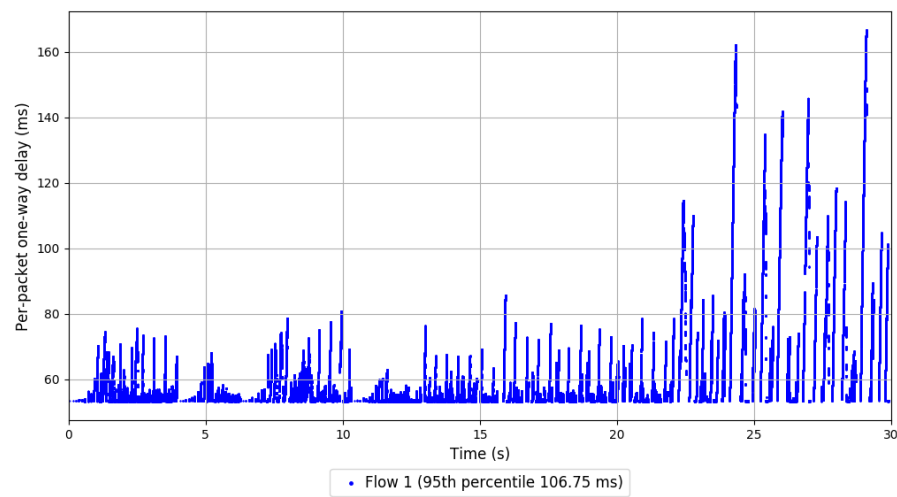
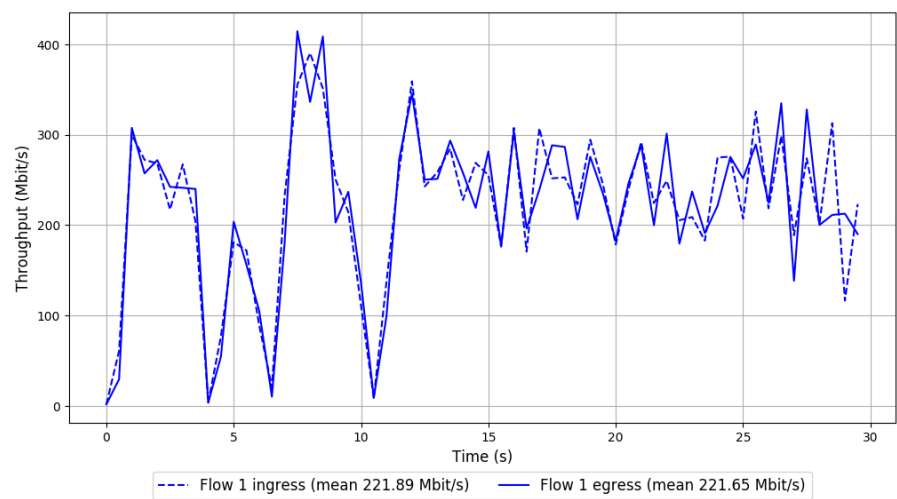
-- Flow 1:

Average throughput: 221.65 Mbit/s

95th percentile per-packet one-way delay: 106.754 ms

Loss rate: 0.30%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-03-06 01:34:47

End at: 2018-03-06 01:35:17

Below is generated by plot.py at 2018-03-06 06:54:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.04 Mbit/s

95th percentile per-packet one-way delay: 53.715 ms

Loss rate: 0.31%

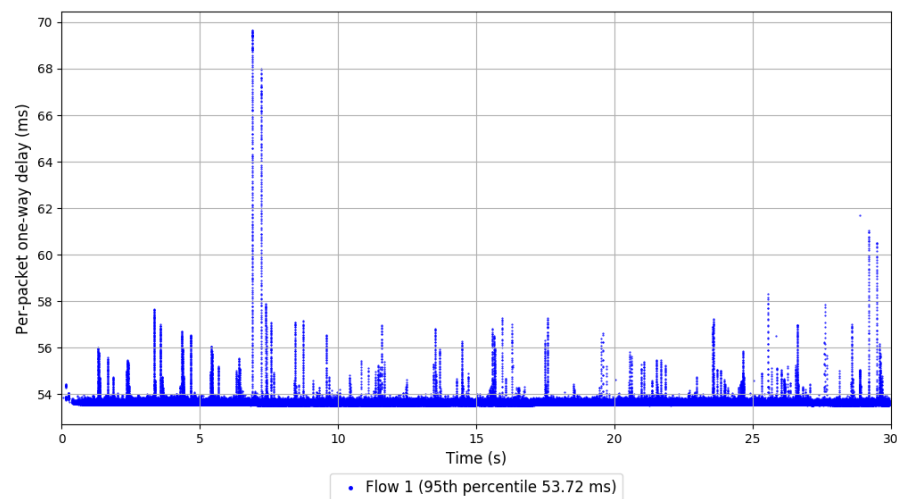
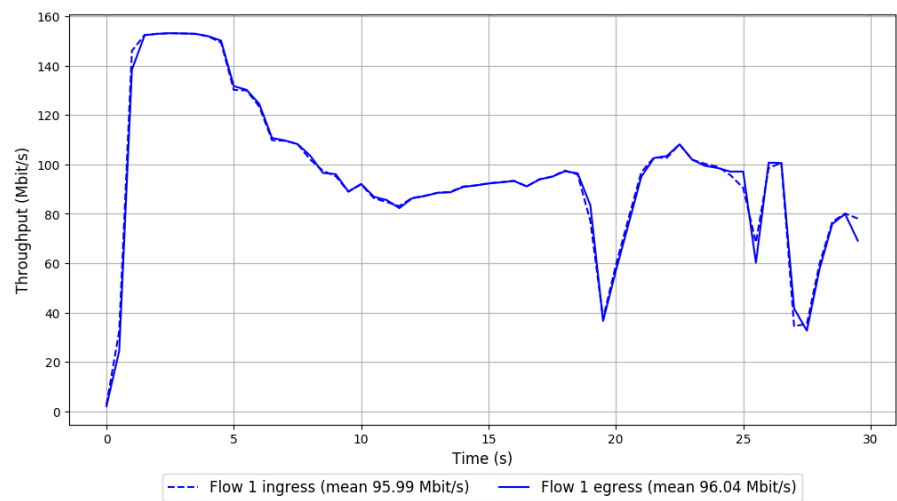
-- Flow 1:

Average throughput: 96.04 Mbit/s

95th percentile per-packet one-way delay: 53.715 ms

Loss rate: 0.31%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-03-06 01:49:06

End at: 2018-03-06 01:49:36

Below is generated by plot.py at 2018-03-06 06:54:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.03 Mbit/s

95th percentile per-packet one-way delay: 53.941 ms

Loss rate: 0.30%

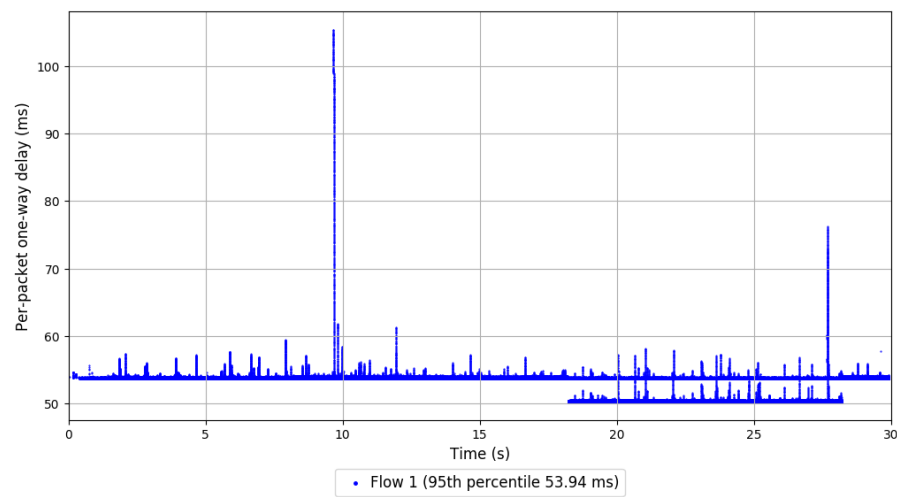
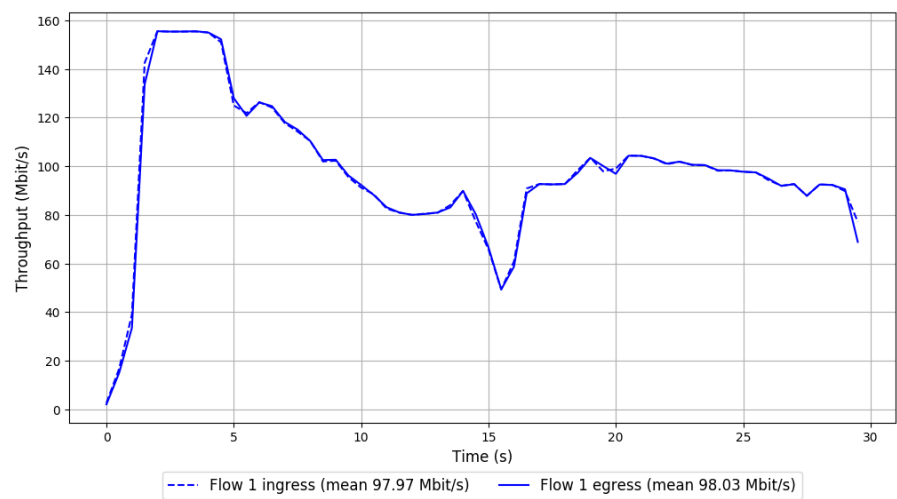
-- Flow 1:

Average throughput: 98.03 Mbit/s

95th percentile per-packet one-way delay: 53.941 ms

Loss rate: 0.30%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-03-06 02:03:43

End at: 2018-03-06 02:04:13

Below is generated by plot.py at 2018-03-06 06:54:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.18 Mbit/s

95th percentile per-packet one-way delay: 54.056 ms

Loss rate: 0.82%

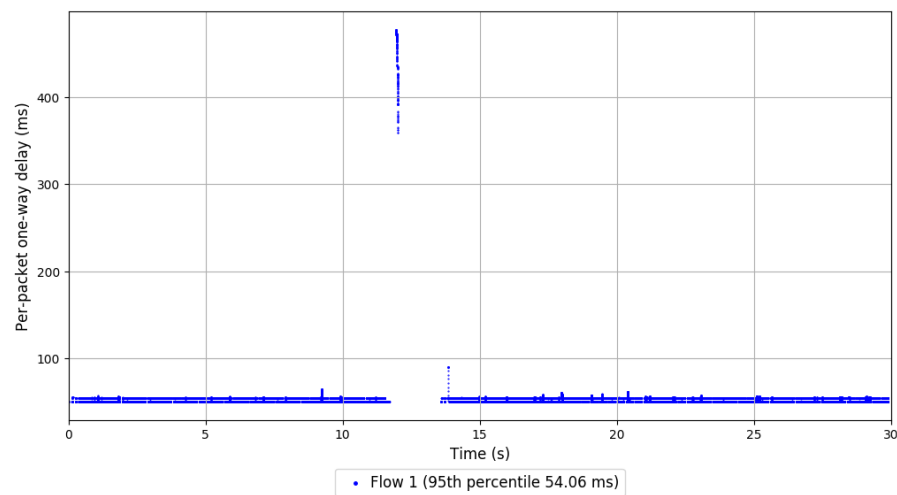
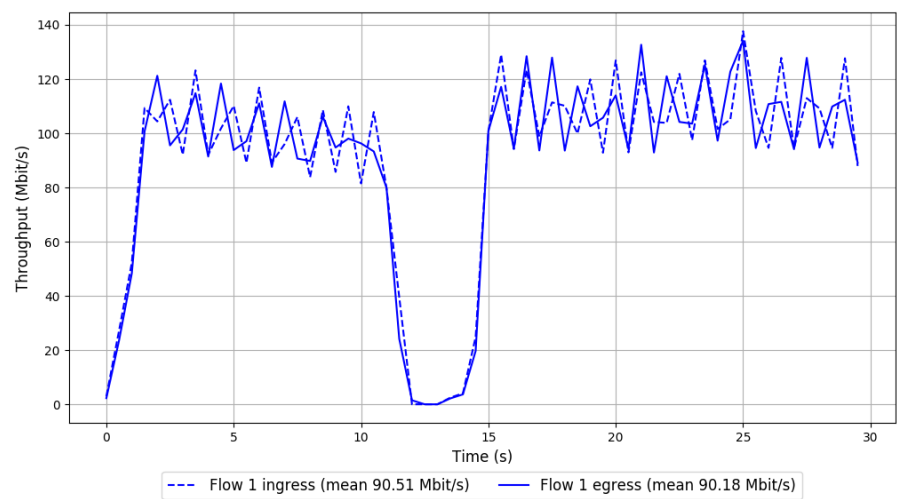
-- Flow 1:

Average throughput: 90.18 Mbit/s

95th percentile per-packet one-way delay: 54.056 ms

Loss rate: 0.82%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-03-06 02:17:57

End at: 2018-03-06 02:18:27

Below is generated by plot.py at 2018-03-06 06:54:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.03 Mbit/s

95th percentile per-packet one-way delay: 53.909 ms

Loss rate: 0.49%

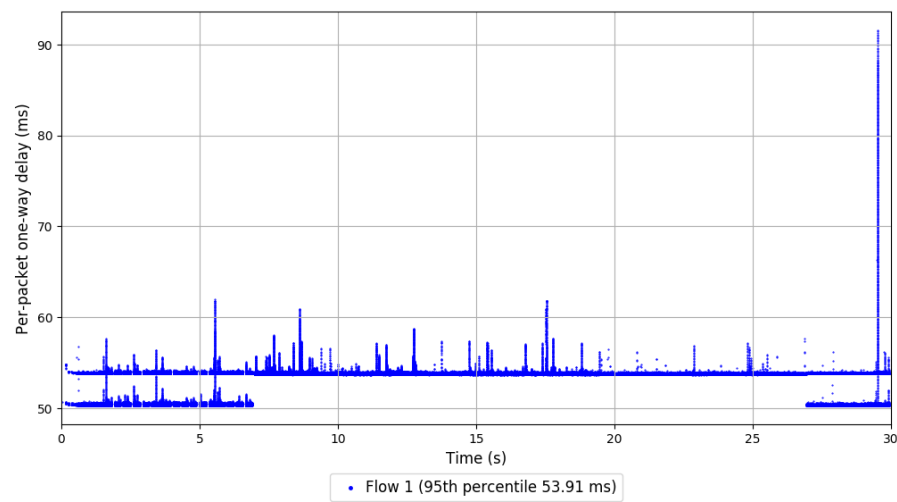
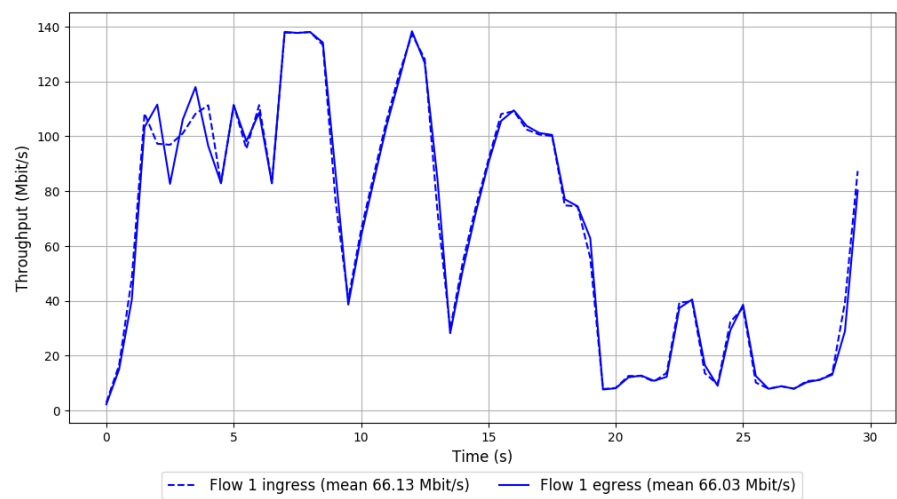
-- Flow 1:

Average throughput: 66.03 Mbit/s

95th percentile per-packet one-way delay: 53.909 ms

Loss rate: 0.49%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-03-06 02:32:30

End at: 2018-03-06 02:33:00

Below is generated by plot.py at 2018-03-06 06:59:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 254.19 Mbit/s

95th percentile per-packet one-way delay: 238.201 ms

Loss rate: 25.60%

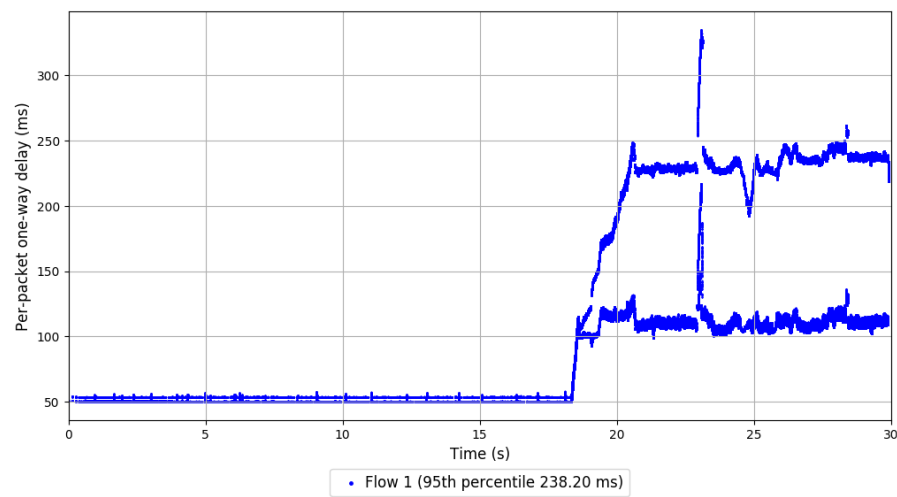
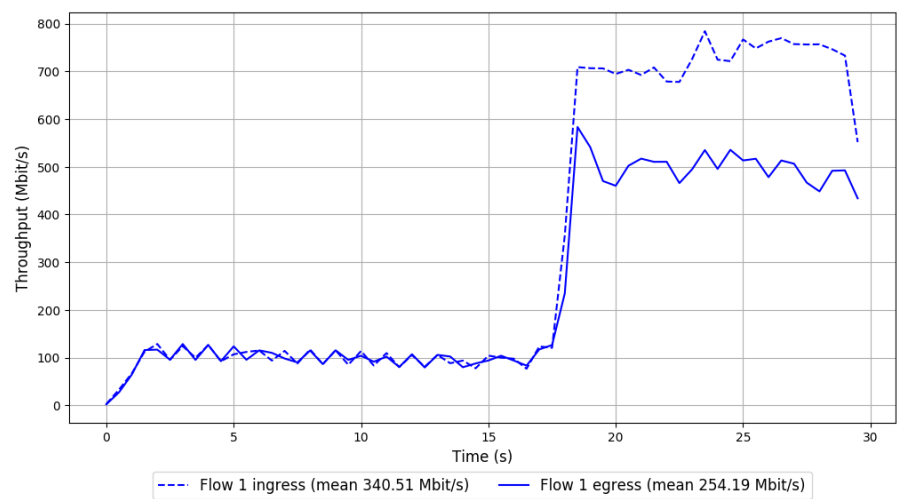
-- Flow 1:

Average throughput: 254.19 Mbit/s

95th percentile per-packet one-way delay: 238.201 ms

Loss rate: 25.60%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-03-06 02:46:59

End at: 2018-03-06 02:47:29

Below is generated by plot.py at 2018-03-06 06:59:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.63 Mbit/s

95th percentile per-packet one-way delay: 53.647 ms

Loss rate: 0.06%

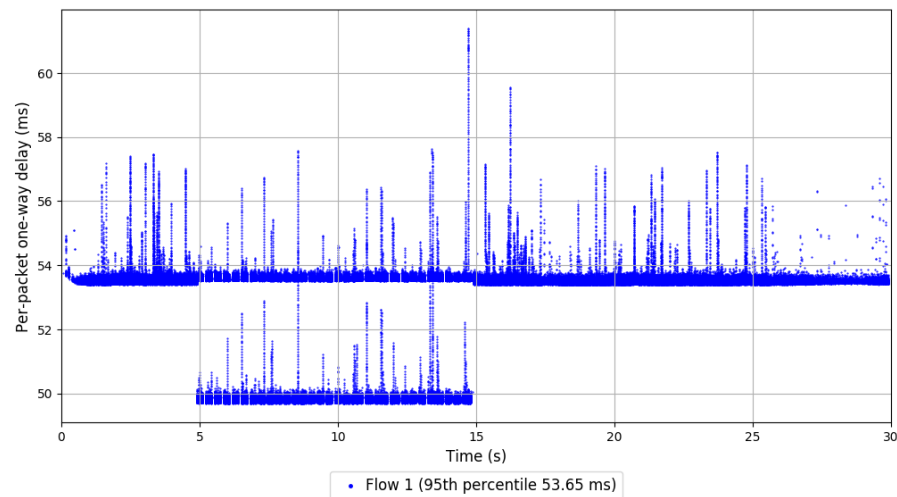
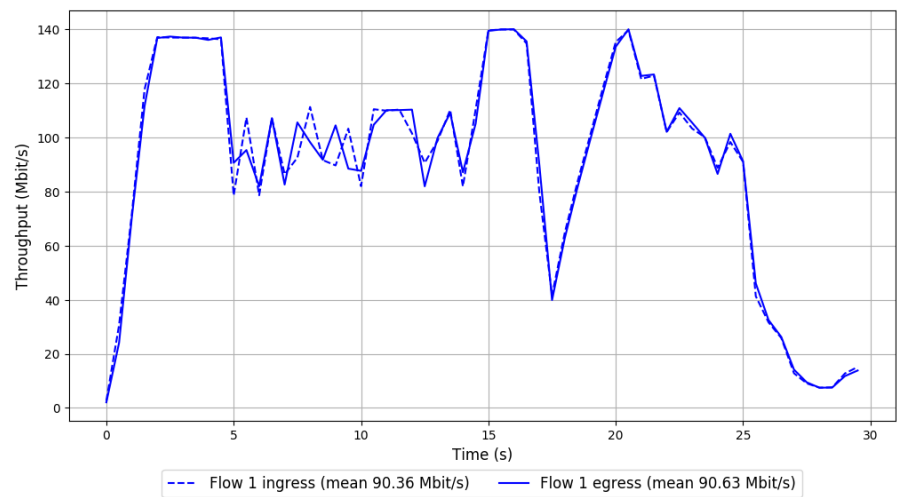
-- Flow 1:

Average throughput: 90.63 Mbit/s

95th percentile per-packet one-way delay: 53.647 ms

Loss rate: 0.06%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-03-06 03:01:17

End at: 2018-03-06 03:01:47

Below is generated by plot.py at 2018-03-06 06:59:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.75 Mbit/s

95th percentile per-packet one-way delay: 53.557 ms

Loss rate: 0.04%

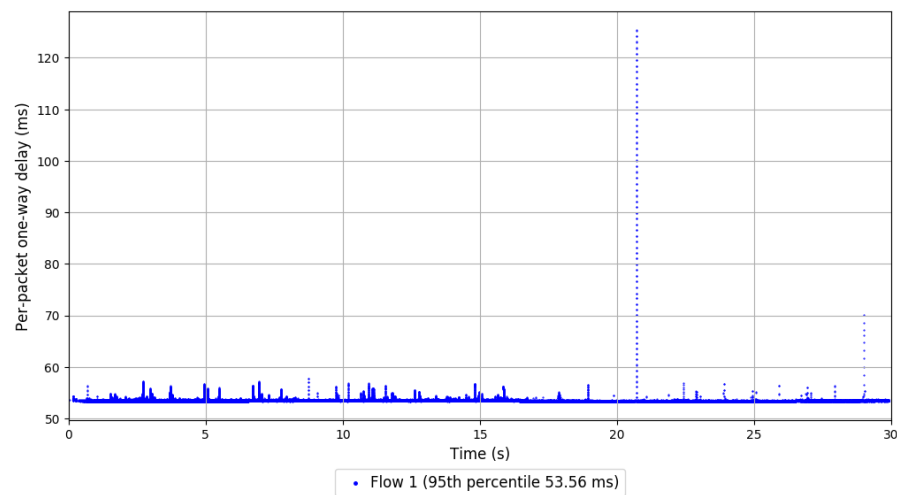
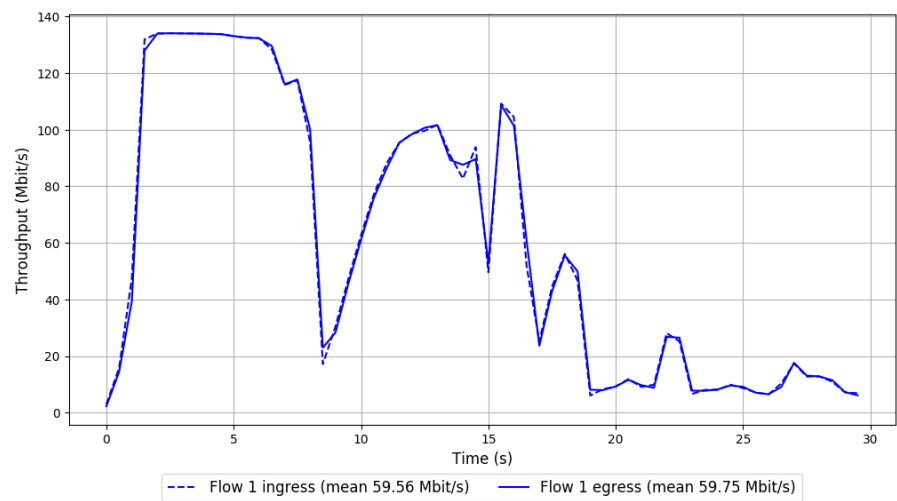
-- Flow 1:

Average throughput: 59.75 Mbit/s

95th percentile per-packet one-way delay: 53.557 ms

Loss rate: 0.04%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-03-06 03:16:01

End at: 2018-03-06 03:16:31

Below is generated by plot.py at 2018-03-06 06:59:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 99.43 Mbit/s

95th percentile per-packet one-way delay: 53.460 ms

Loss rate: 0.30%

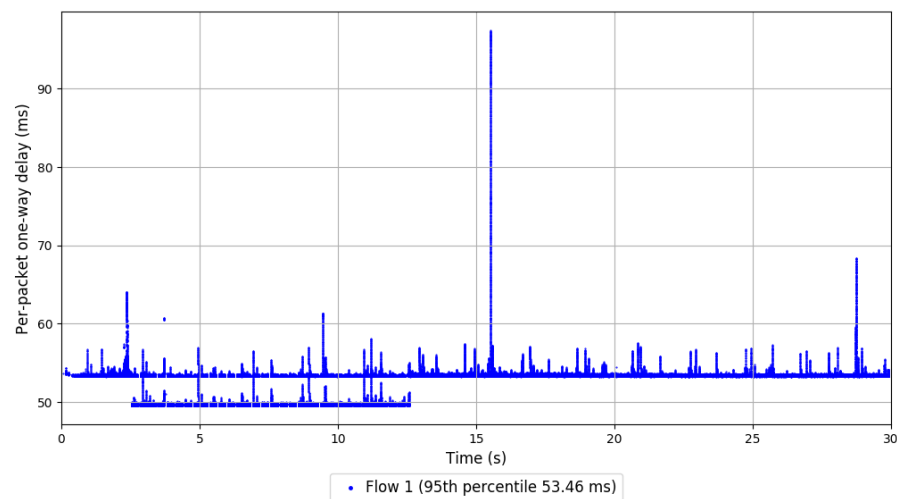
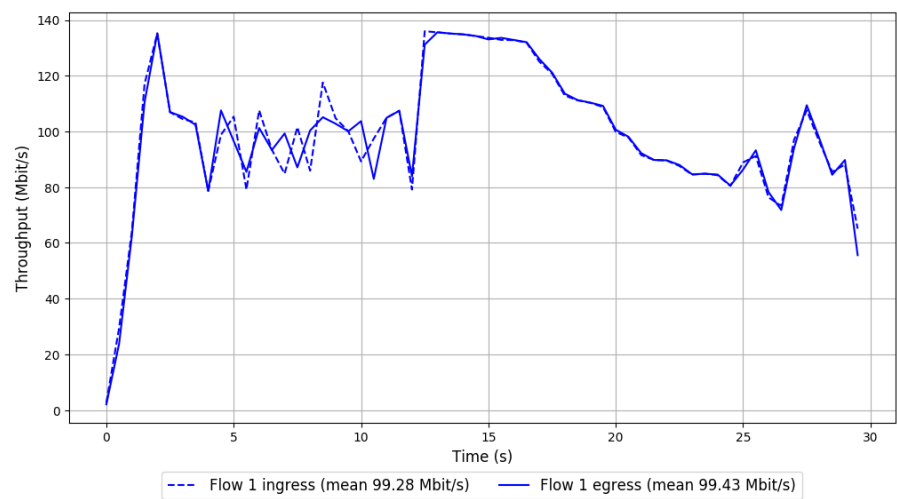
-- Flow 1:

Average throughput: 99.43 Mbit/s

95th percentile per-packet one-way delay: 53.460 ms

Loss rate: 0.30%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-03-06 03:30:34

End at: 2018-03-06 03:31:04

Below is generated by plot.py at 2018-03-06 06:59:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.06 Mbit/s

95th percentile per-packet one-way delay: 53.378 ms

Loss rate: 0.50%

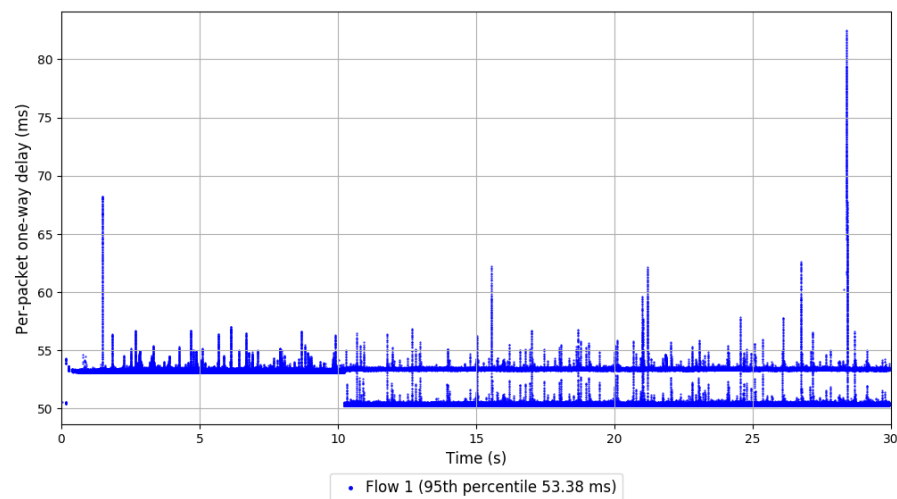
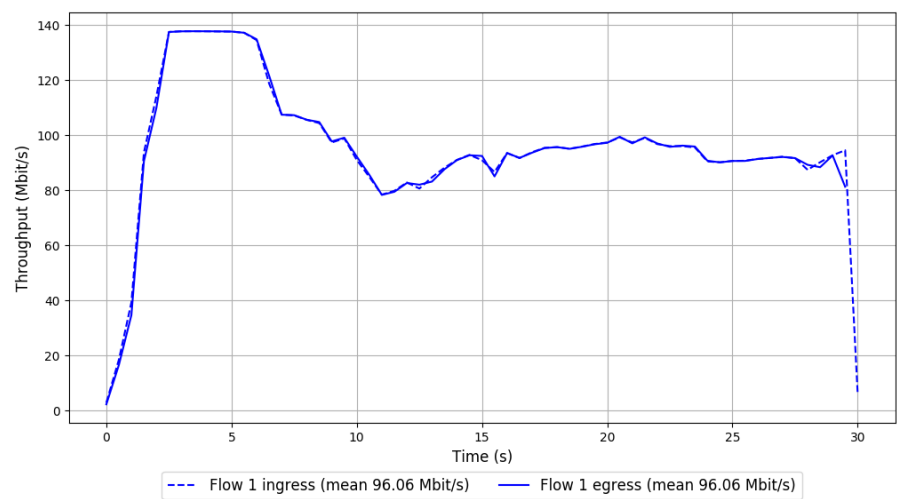
-- Flow 1:

Average throughput: 96.06 Mbit/s

95th percentile per-packet one-way delay: 53.378 ms

Loss rate: 0.50%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-03-06 03:44:54

End at: 2018-03-06 03:45:24

Below is generated by plot.py at 2018-03-06 06:59:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.26 Mbit/s

95th percentile per-packet one-way delay: 53.394 ms

Loss rate: 0.33%

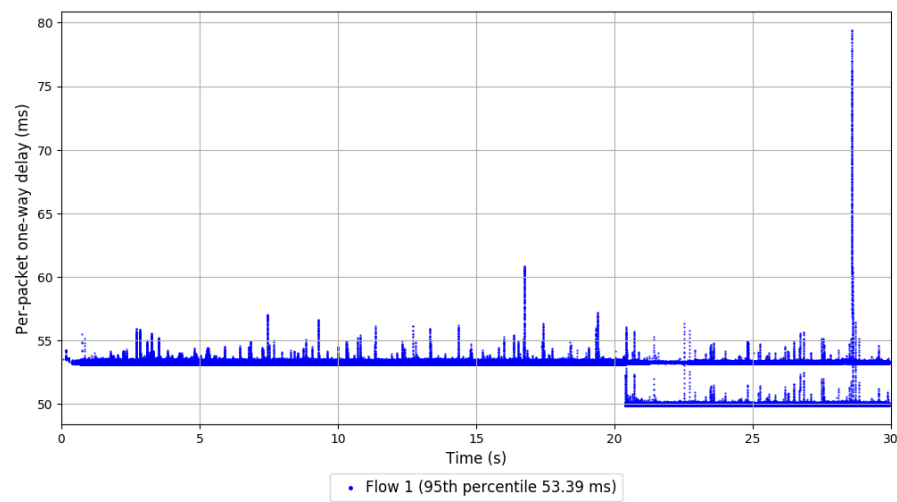
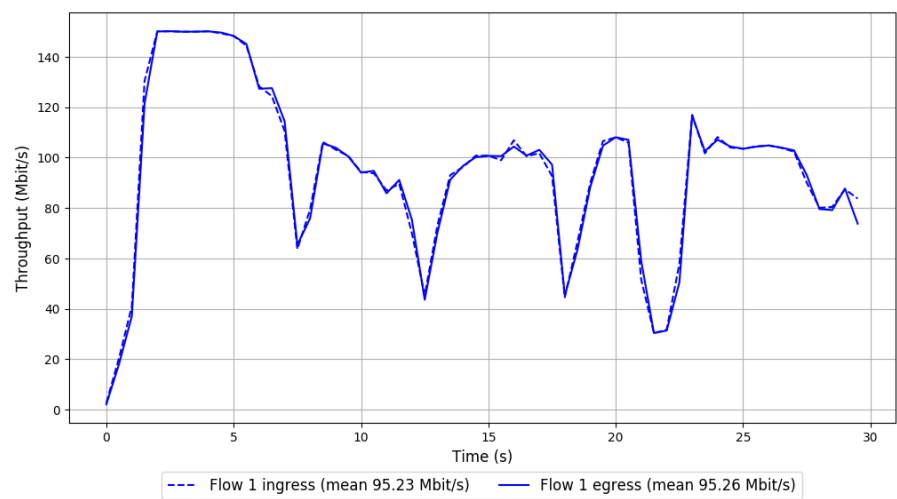
-- Flow 1:

Average throughput: 95.26 Mbit/s

95th percentile per-packet one-way delay: 53.394 ms

Loss rate: 0.33%

Run 10: Report of Copa — Data Link

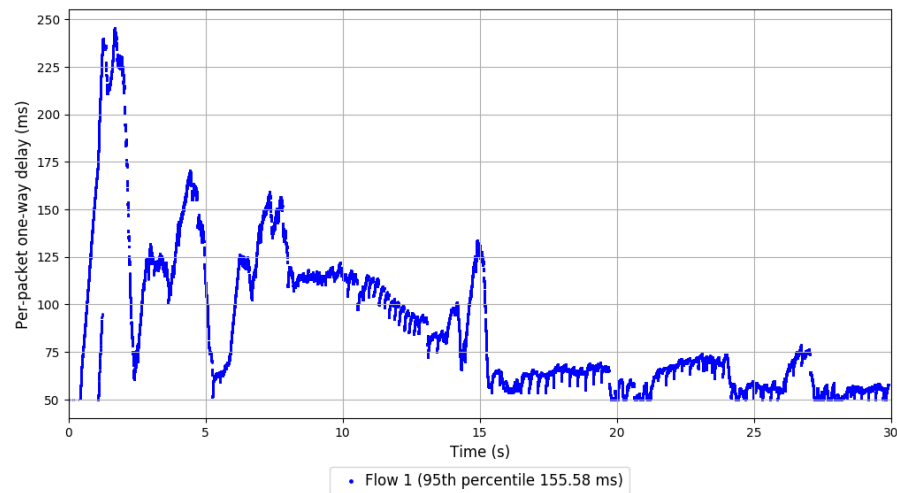
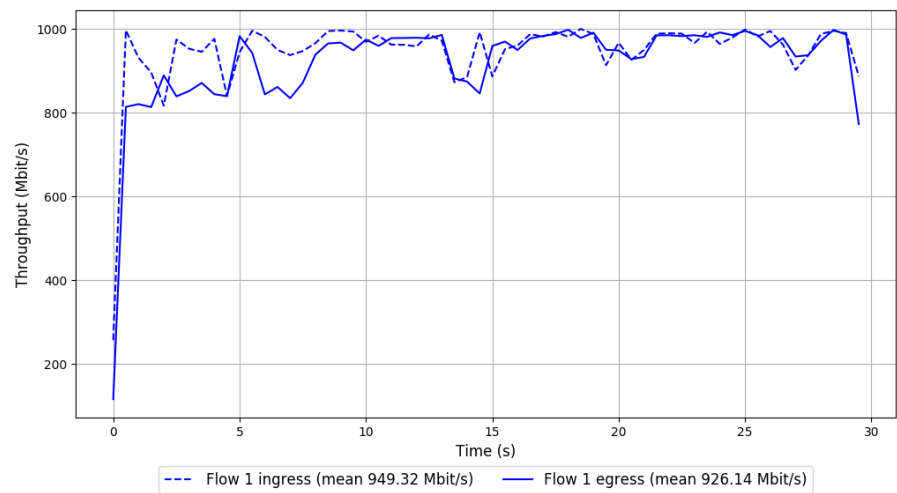


```
Run 1: Statistics of FillP

Start at: 2018-03-06 01:23:56
End at: 2018-03-06 01:24:26

# Below is generated by plot.py at 2018-03-06 07:10:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 926.14 Mbit/s
95th percentile per-packet one-way delay: 155.581 ms
Loss rate: 2.78%
-- Flow 1:
Average throughput: 926.14 Mbit/s
95th percentile per-packet one-way delay: 155.581 ms
Loss rate: 2.78%
```

Run 1: Report of FillP — Data Link

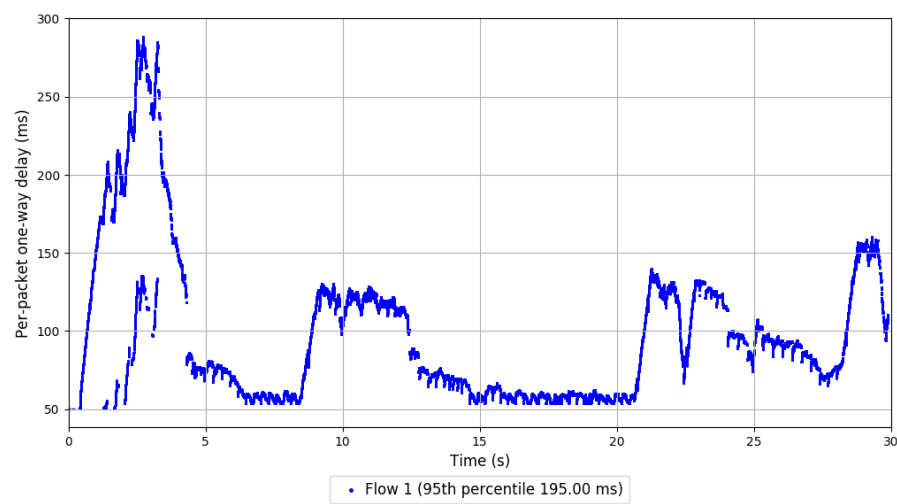
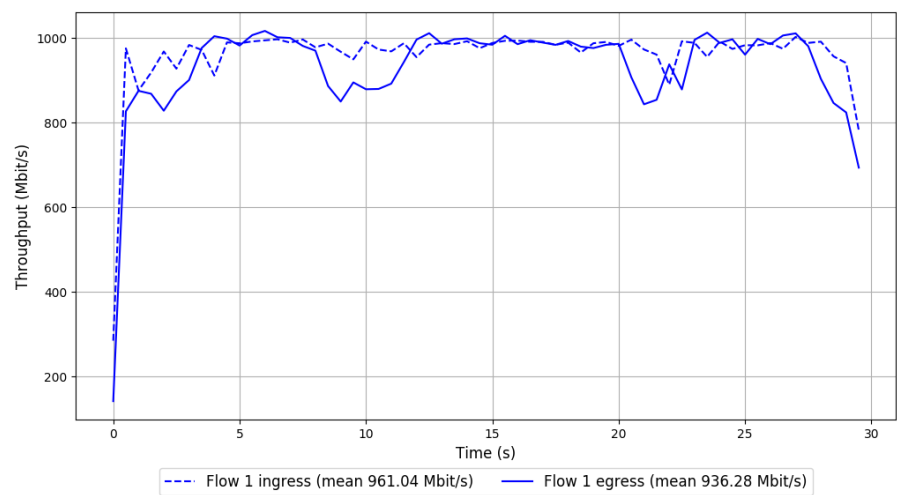


```
Run 2: Statistics of FillP

Start at: 2018-03-06 01:38:12
End at: 2018-03-06 01:38:42

# Below is generated by plot.py at 2018-03-06 07:11:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 936.28 Mbit/s
95th percentile per-packet one-way delay: 194.999 ms
Loss rate: 2.91%
-- Flow 1:
Average throughput: 936.28 Mbit/s
95th percentile per-packet one-way delay: 194.999 ms
Loss rate: 2.91%
```

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-03-06 01:52:31

End at: 2018-03-06 01:53:01

Below is generated by plot.py at 2018-03-06 07:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 933.11 Mbit/s

95th percentile per-packet one-way delay: 125.118 ms

Loss rate: 3.16%

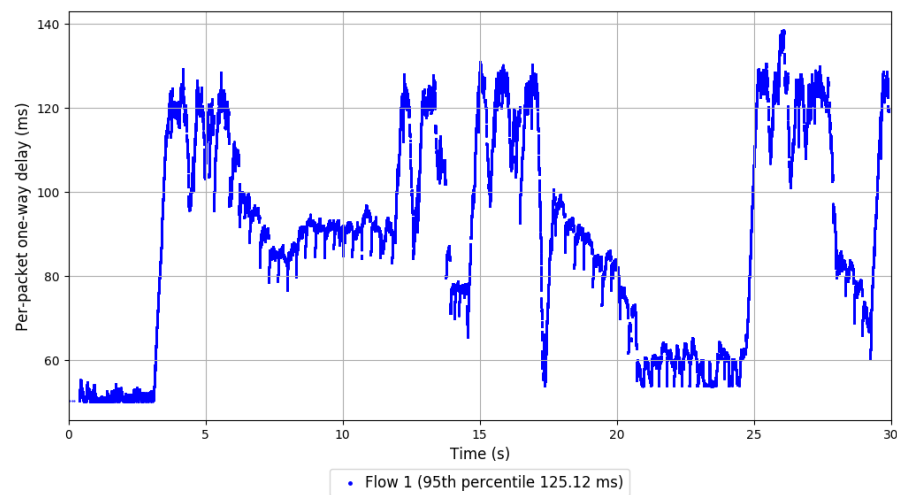
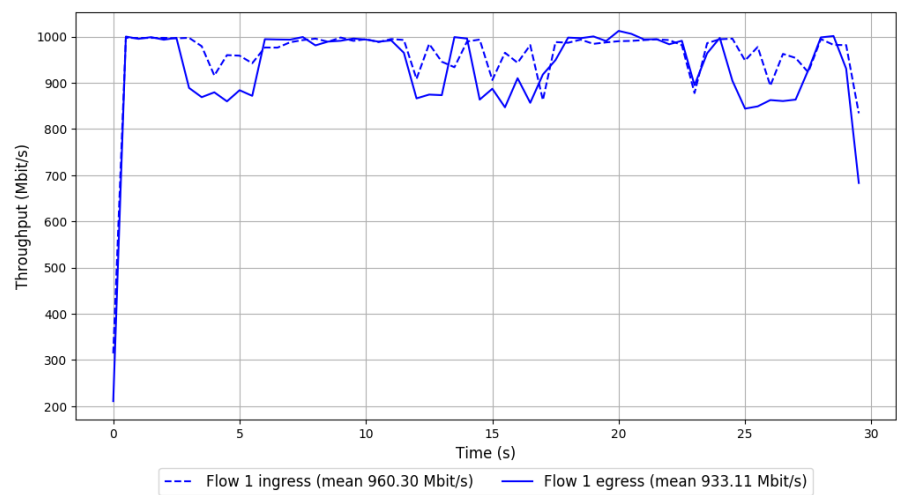
-- Flow 1:

Average throughput: 933.11 Mbit/s

95th percentile per-packet one-way delay: 125.118 ms

Loss rate: 3.16%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-03-06 02:07:03

End at: 2018-03-06 02:07:33

Below is generated by plot.py at 2018-03-06 07:12:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 928.99 Mbit/s

95th percentile per-packet one-way delay: 123.621 ms

Loss rate: 3.79%

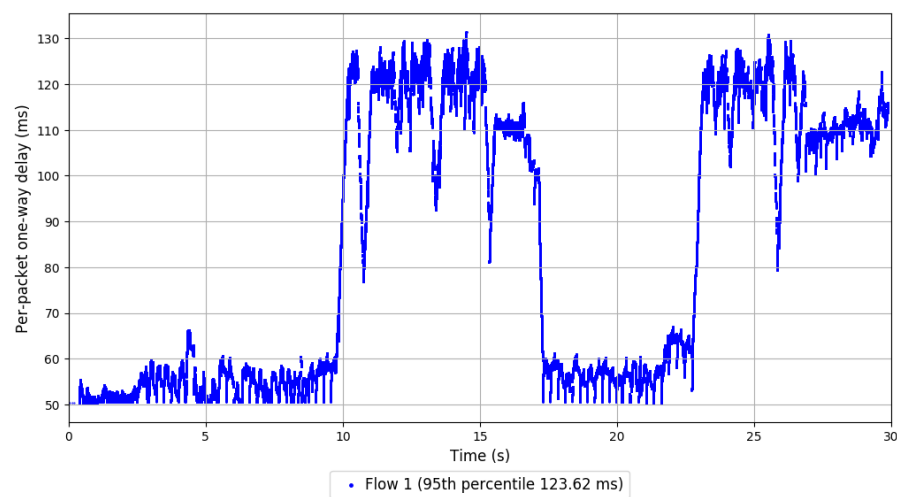
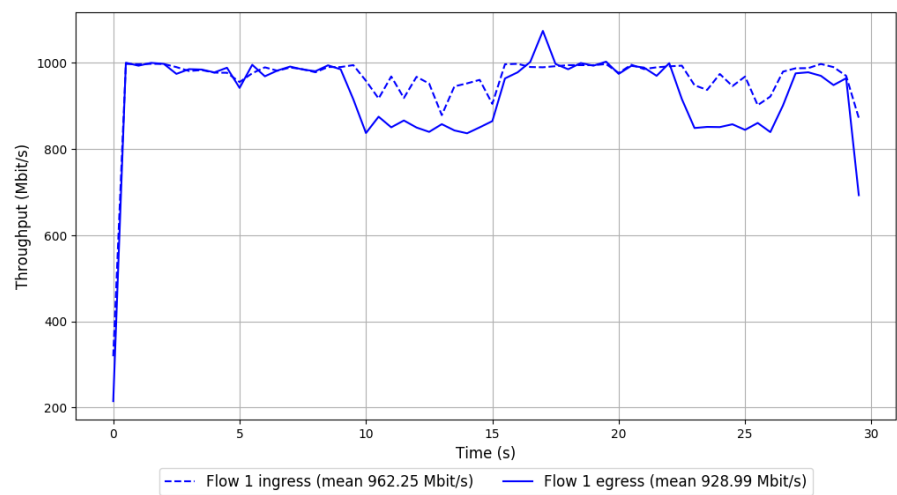
-- Flow 1:

Average throughput: 928.99 Mbit/s

95th percentile per-packet one-way delay: 123.621 ms

Loss rate: 3.79%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-03-06 02:21:19

End at: 2018-03-06 02:21:49

Below is generated by plot.py at 2018-03-06 07:13:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 951.85 Mbit/s

95th percentile per-packet one-way delay: 120.242 ms

Loss rate: 2.23%

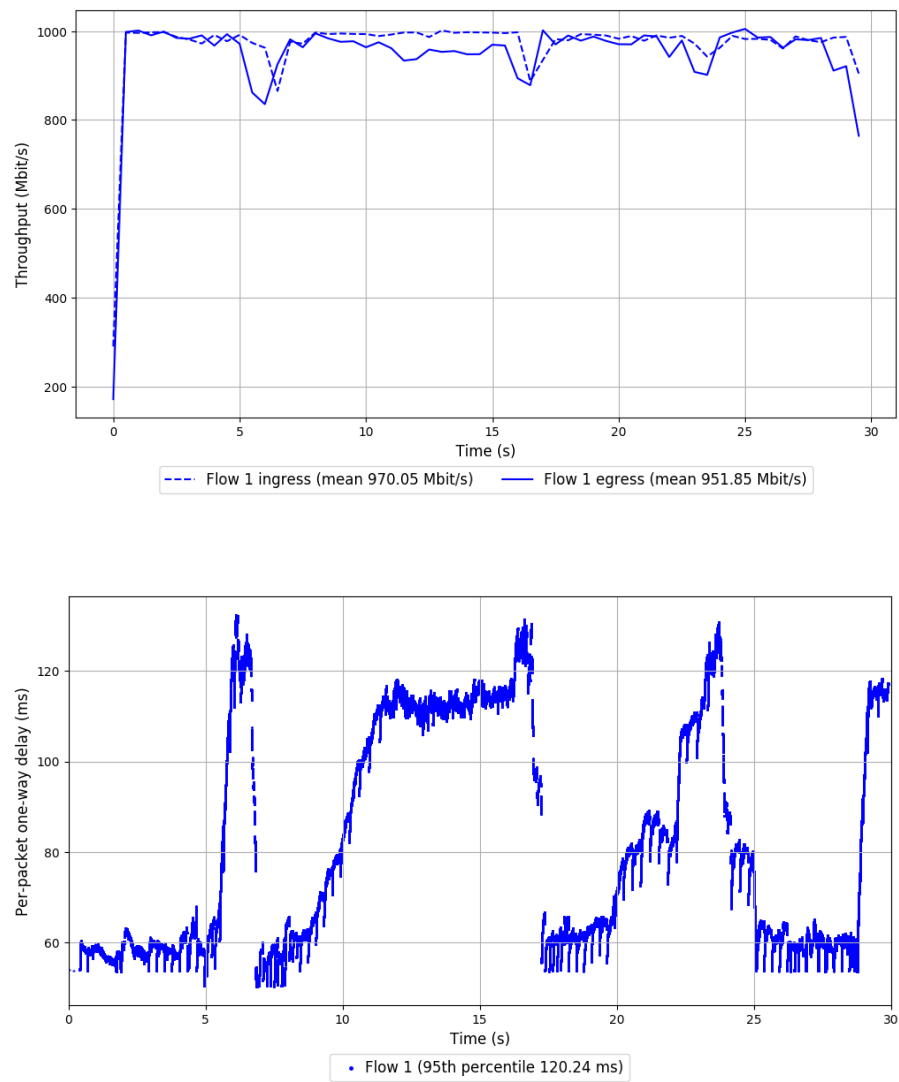
-- Flow 1:

Average throughput: 951.85 Mbit/s

95th percentile per-packet one-way delay: 120.242 ms

Loss rate: 2.23%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-03-06 02:36:01

End at: 2018-03-06 02:36:31

Below is generated by plot.py at 2018-03-06 07:13:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 902.17 Mbit/s

95th percentile per-packet one-way delay: 126.128 ms

Loss rate: 5.25%

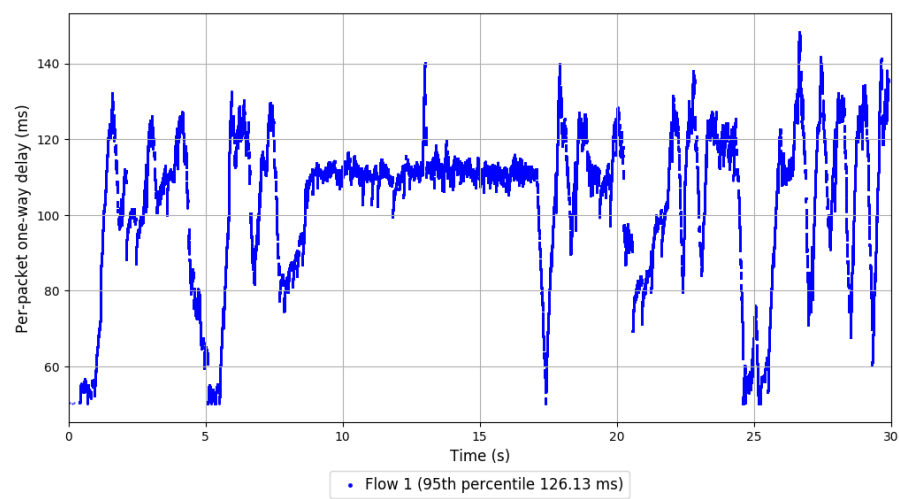
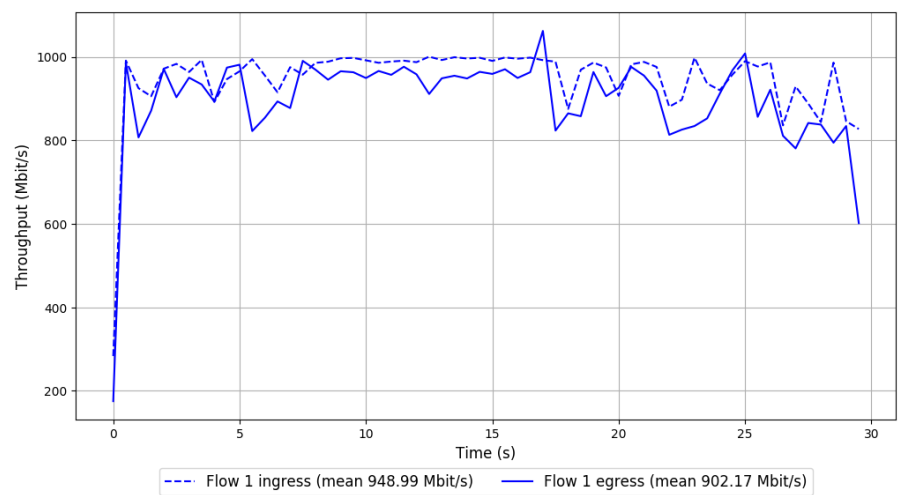
-- Flow 1:

Average throughput: 902.17 Mbit/s

95th percentile per-packet one-way delay: 126.128 ms

Loss rate: 5.25%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-03-06 02:50:18

End at: 2018-03-06 02:50:48

Below is generated by plot.py at 2018-03-06 07:13:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 901.42 Mbit/s

95th percentile per-packet one-way delay: 125.443 ms

Loss rate: 5.38%

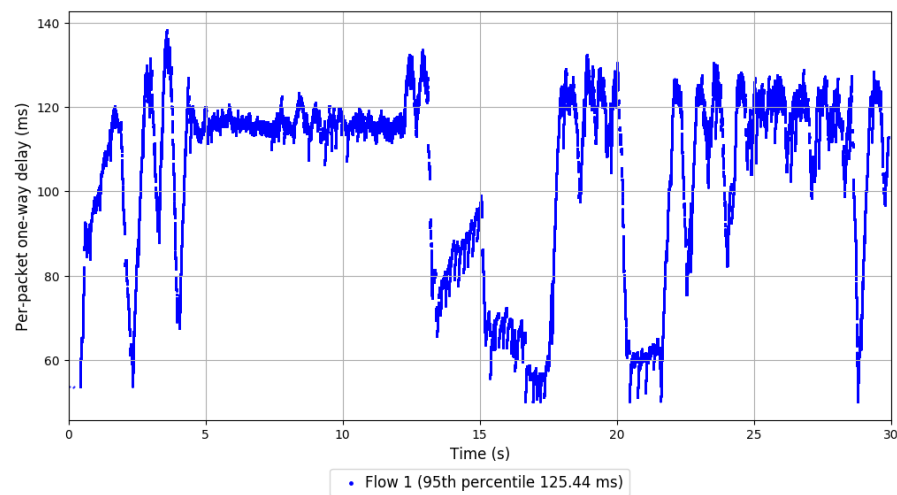
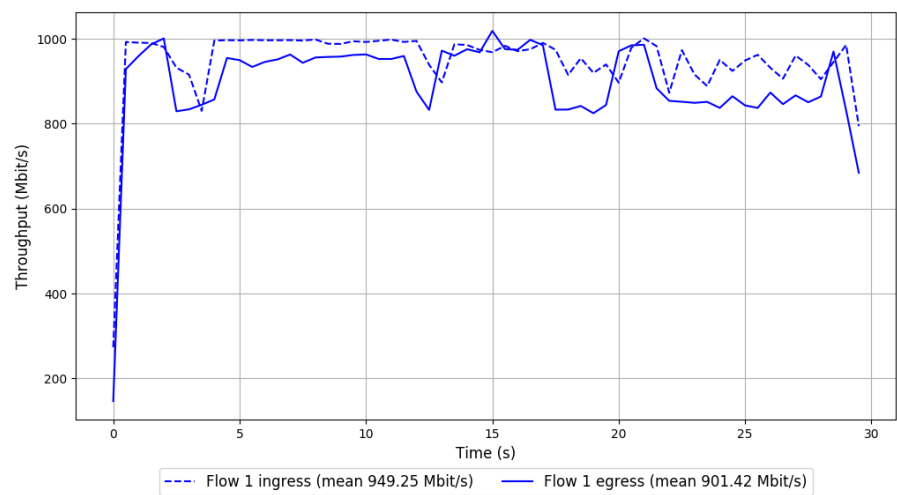
-- Flow 1:

Average throughput: 901.42 Mbit/s

95th percentile per-packet one-way delay: 125.443 ms

Loss rate: 5.38%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-03-06 03:04:39

End at: 2018-03-06 03:05:09

Below is generated by plot.py at 2018-03-06 07:17:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 910.89 Mbit/s

95th percentile per-packet one-way delay: 252.858 ms

Loss rate: 3.35%

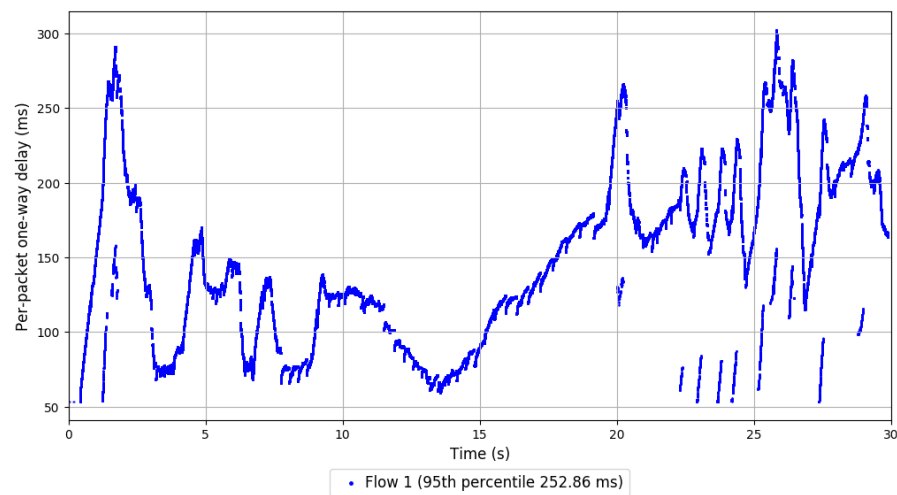
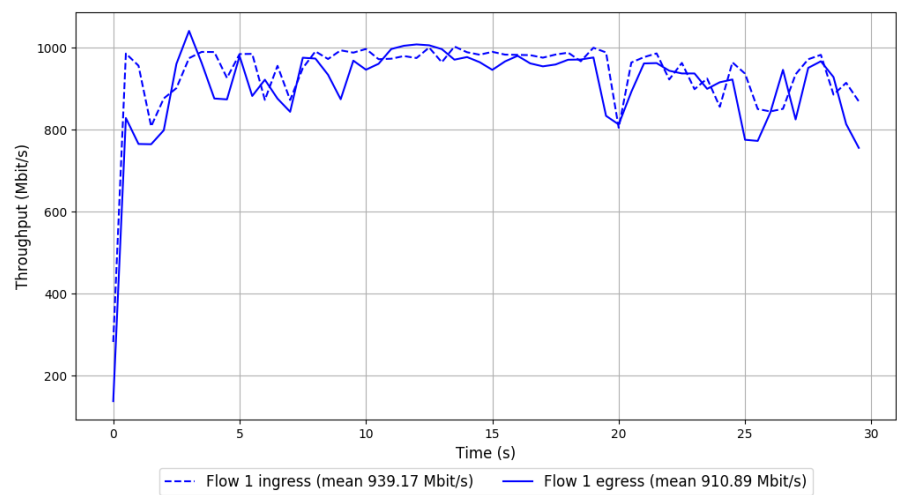
-- Flow 1:

Average throughput: 910.89 Mbit/s

95th percentile per-packet one-way delay: 252.858 ms

Loss rate: 3.35%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-03-06 03:19:22

End at: 2018-03-06 03:19:52

Below is generated by plot.py at 2018-03-06 07:26:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 807.29 Mbit/s

95th percentile per-packet one-way delay: 301.614 ms

Loss rate: 7.84%

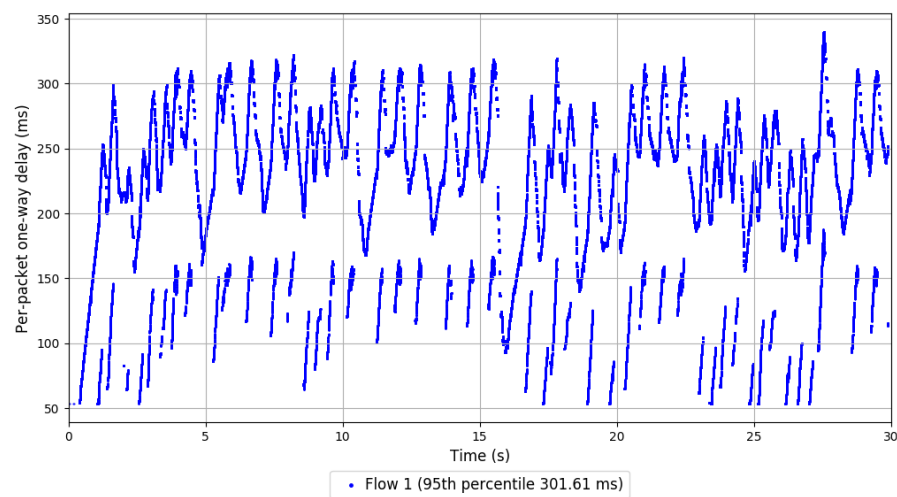
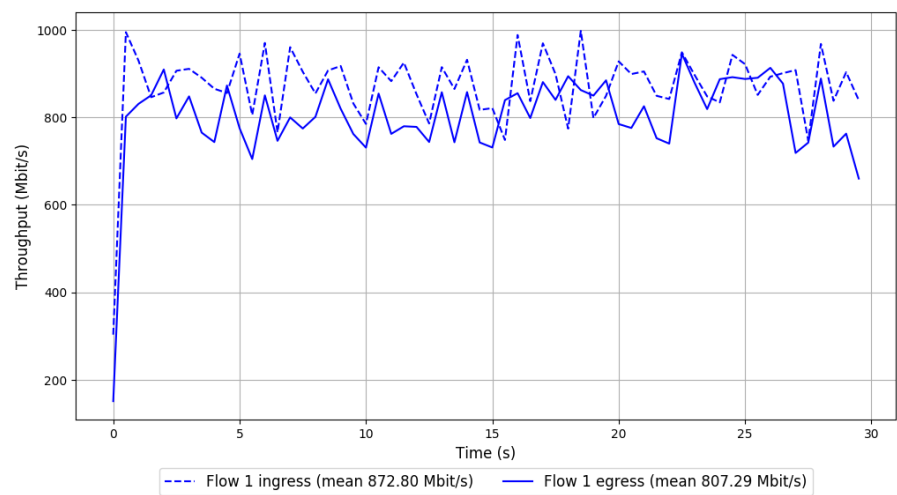
-- Flow 1:

Average throughput: 807.29 Mbit/s

95th percentile per-packet one-way delay: 301.614 ms

Loss rate: 7.84%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-03-06 03:34:01

End at: 2018-03-06 03:34:31

Below is generated by plot.py at 2018-03-06 07:27:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 934.29 Mbit/s

95th percentile per-packet one-way delay: 201.741 ms

Loss rate: 1.68%

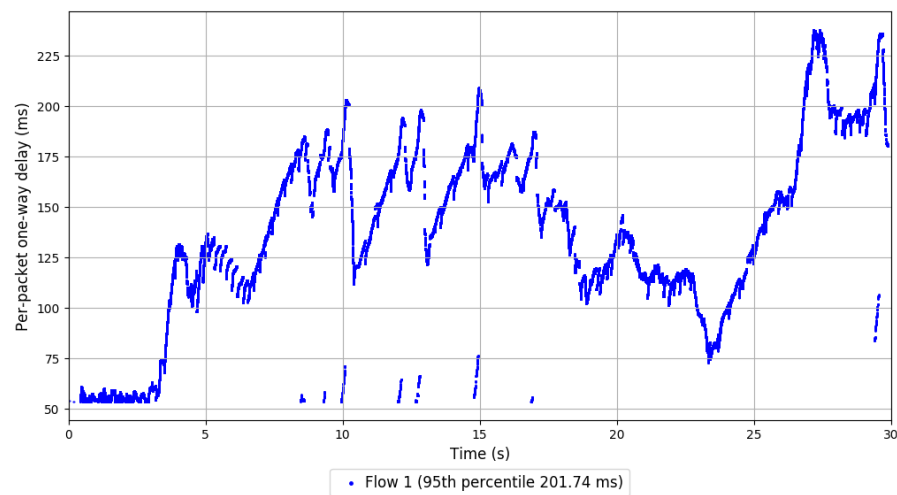
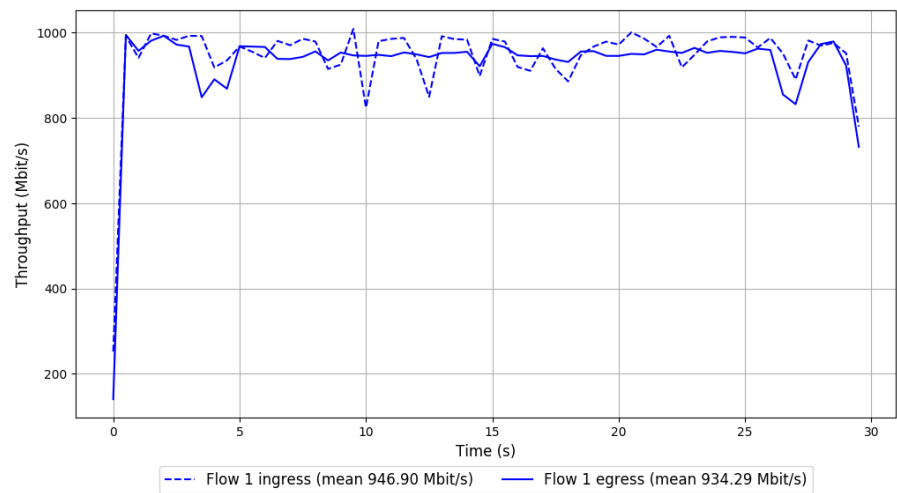
-- Flow 1:

Average throughput: 934.29 Mbit/s

95th percentile per-packet one-way delay: 201.741 ms

Loss rate: 1.68%

Run 10: Report of FillP — Data Link

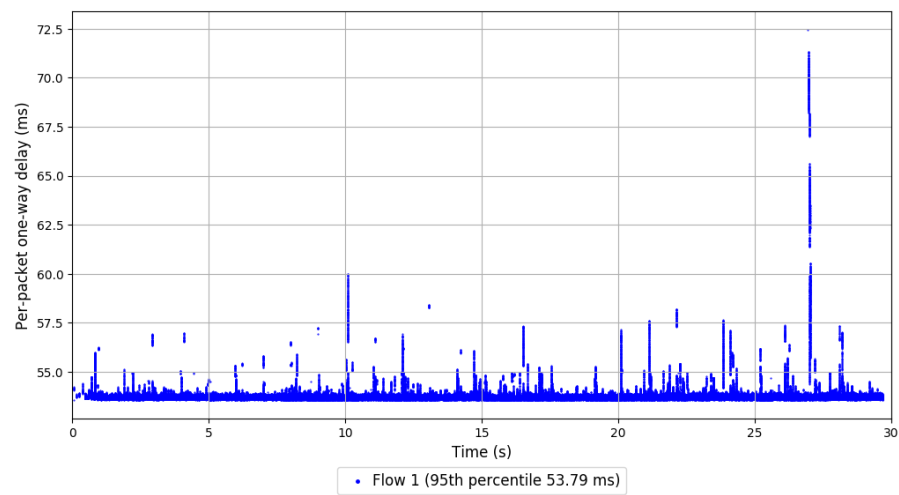
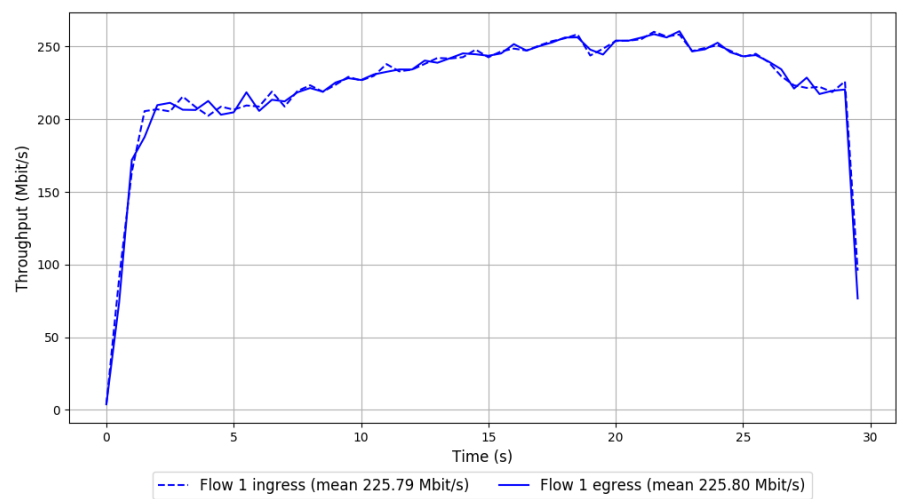


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-03-06 01:21:16
End at: 2018-03-06 01:21:46

# Below is generated by plot.py at 2018-03-06 07:27:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 225.80 Mbit/s
95th percentile per-packet one-way delay: 53.790 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 225.80 Mbit/s
95th percentile per-packet one-way delay: 53.790 ms
Loss rate: 0.34%
```

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

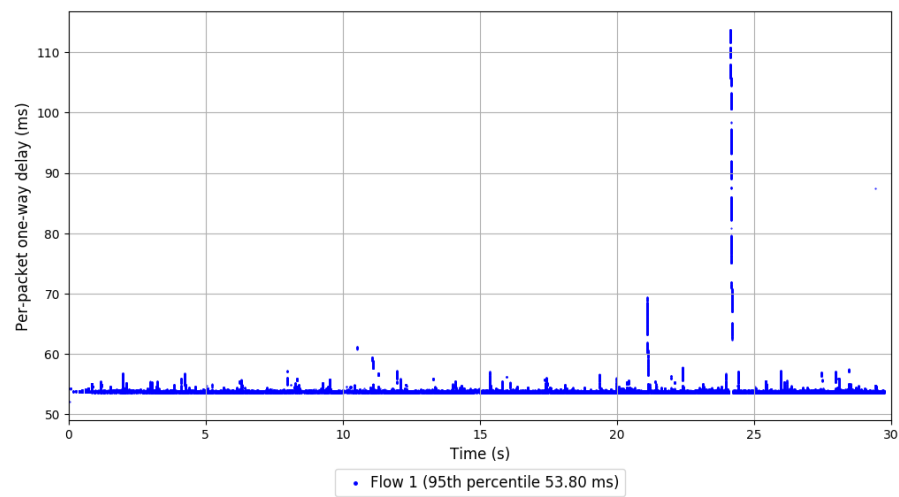
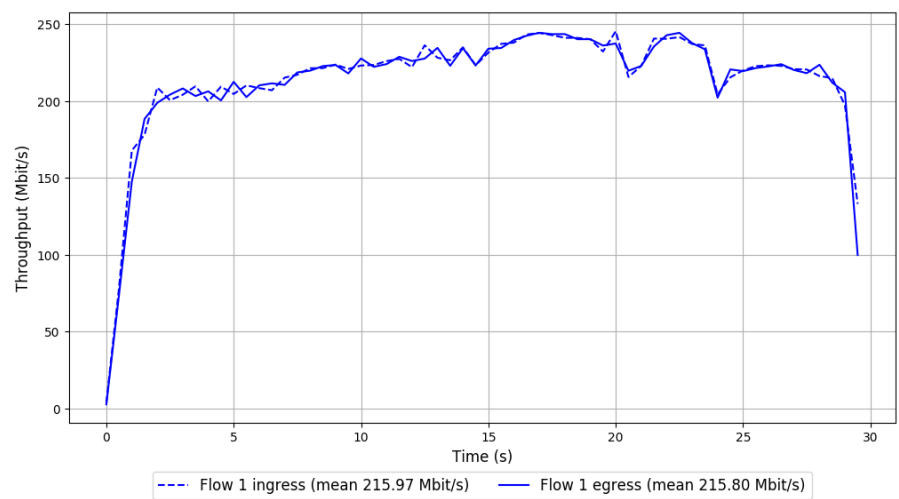


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-03-06 01:35:32
End at: 2018-03-06 01:36:02

# Below is generated by plot.py at 2018-03-06 07:27:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 215.80 Mbit/s
95th percentile per-packet one-way delay: 53.799 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 215.80 Mbit/s
95th percentile per-packet one-way delay: 53.799 ms
Loss rate: 0.37%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-03-06 01:49:51

End at: 2018-03-06 01:50:21

Below is generated by plot.py at 2018-03-06 07:27:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.73 Mbit/s

95th percentile per-packet one-way delay: 54.043 ms

Loss rate: 0.38%

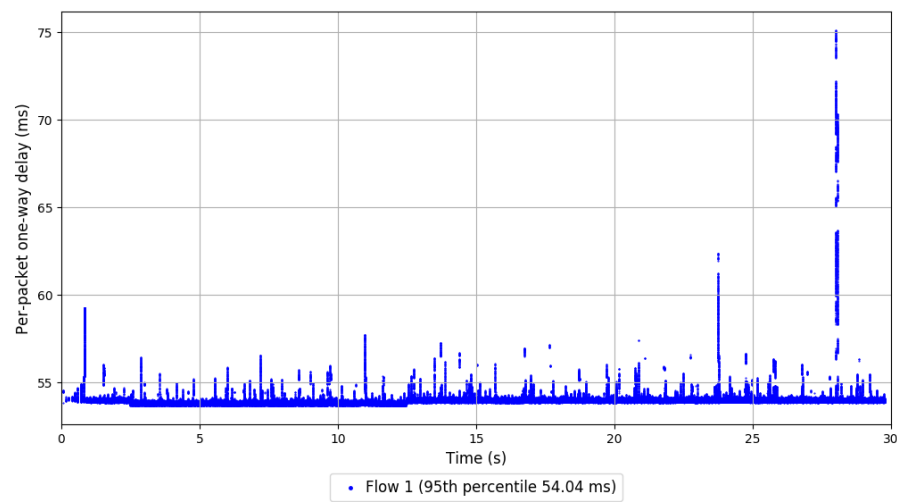
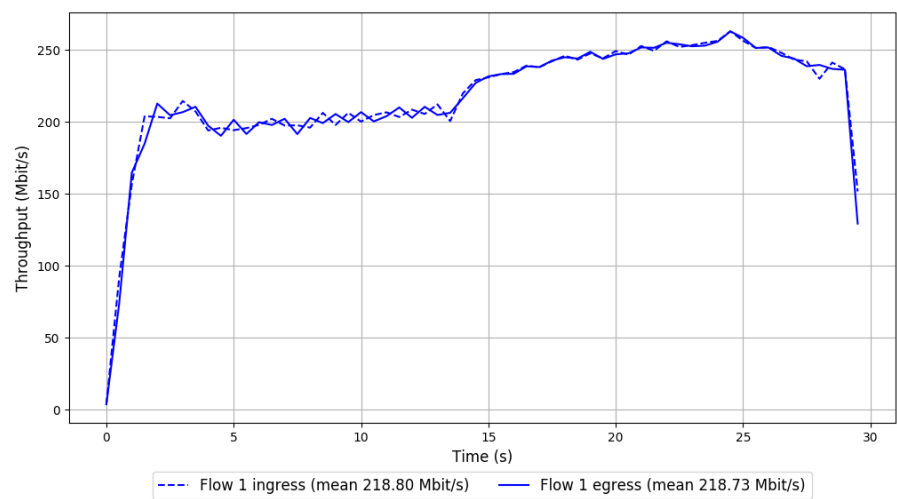
-- Flow 1:

Average throughput: 218.73 Mbit/s

95th percentile per-packet one-way delay: 54.043 ms

Loss rate: 0.38%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-03-06 02:04:26

End at: 2018-03-06 02:04:56

Below is generated by plot.py at 2018-03-06 07:27:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.55 Mbit/s

95th percentile per-packet one-way delay: 54.085 ms

Loss rate: 0.33%

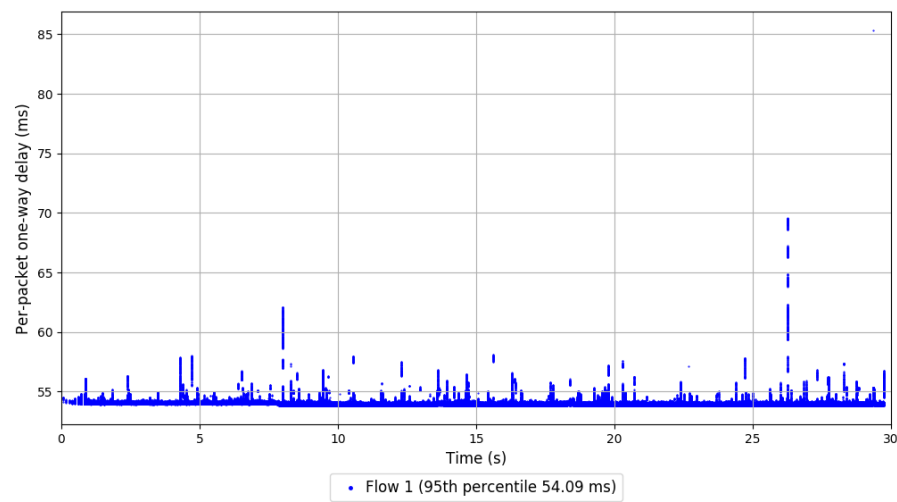
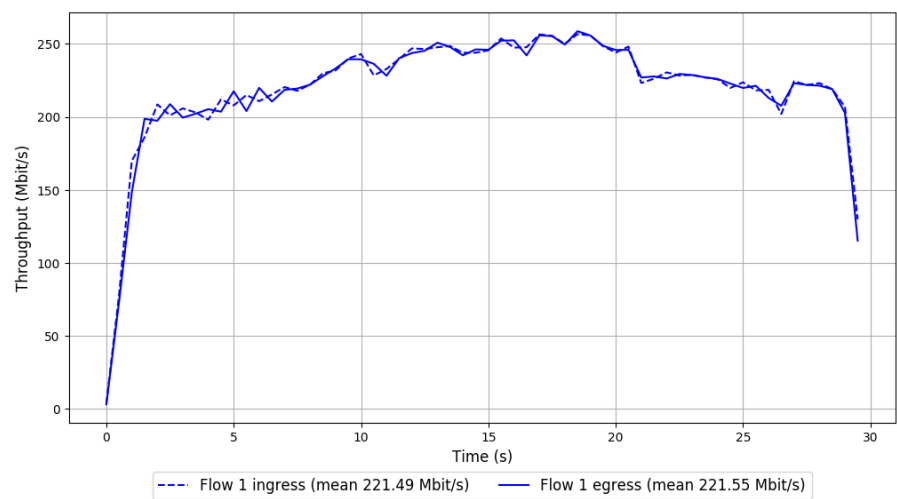
-- Flow 1:

Average throughput: 221.55 Mbit/s

95th percentile per-packet one-way delay: 54.085 ms

Loss rate: 0.33%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-03-06 02:18:40

End at: 2018-03-06 02:19:10

Below is generated by plot.py at 2018-03-06 07:27:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.34 Mbit/s

95th percentile per-packet one-way delay: 54.007 ms

Loss rate: 0.37%

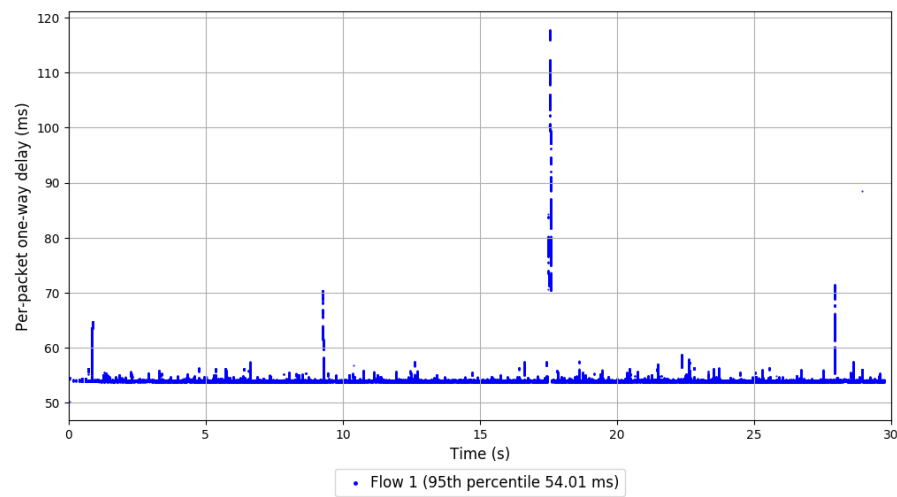
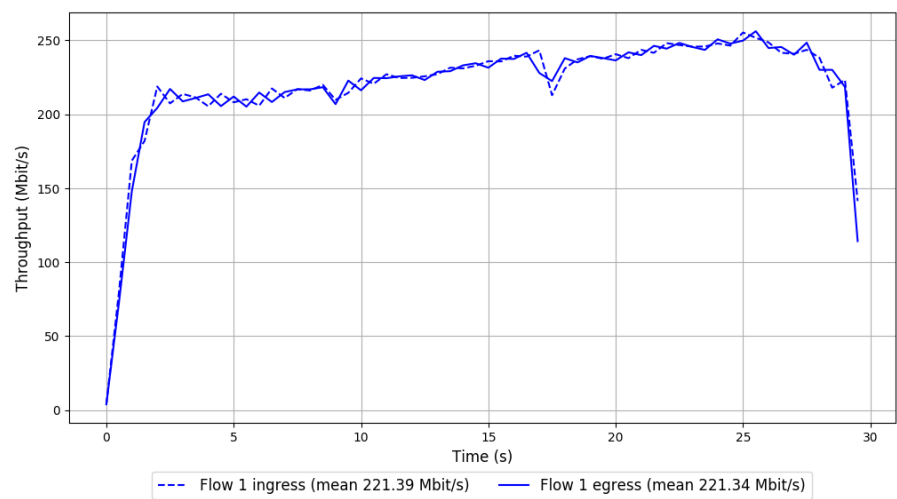
-- Flow 1:

Average throughput: 221.34 Mbit/s

95th percentile per-packet one-way delay: 54.007 ms

Loss rate: 0.37%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-03-06 02:33:25

End at: 2018-03-06 02:33:55

Below is generated by plot.py at 2018-03-06 07:27:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.61 Mbit/s

95th percentile per-packet one-way delay: 53.736 ms

Loss rate: 0.43%

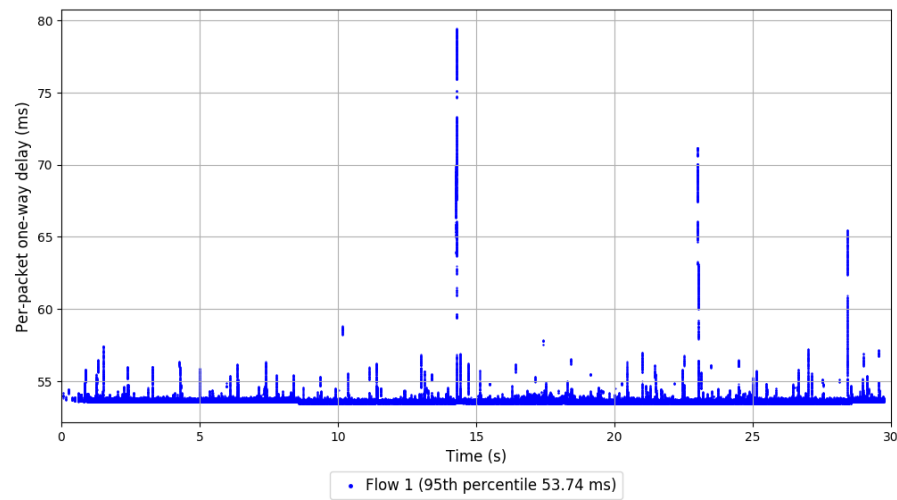
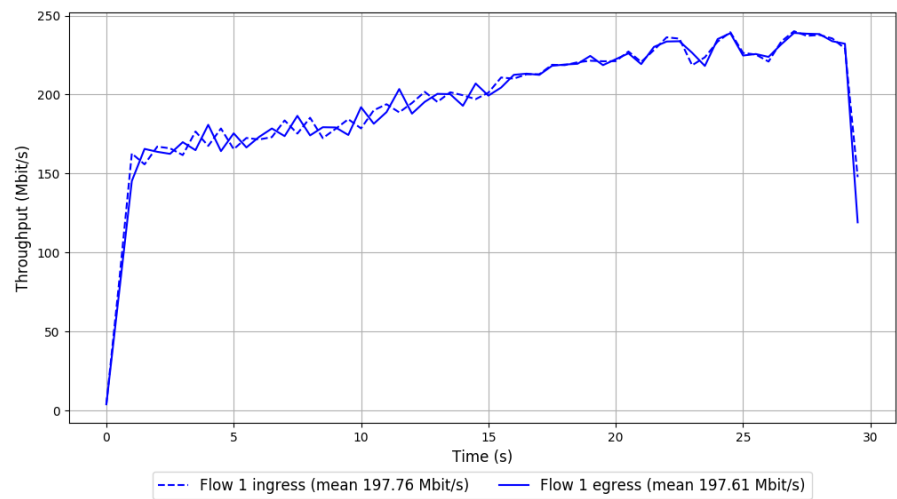
-- Flow 1:

Average throughput: 197.61 Mbit/s

95th percentile per-packet one-way delay: 53.736 ms

Loss rate: 0.43%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-03-06 02:47:43

End at: 2018-03-06 02:48:13

Below is generated by plot.py at 2018-03-06 07:27:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.32 Mbit/s

95th percentile per-packet one-way delay: 53.724 ms

Loss rate: 0.56%

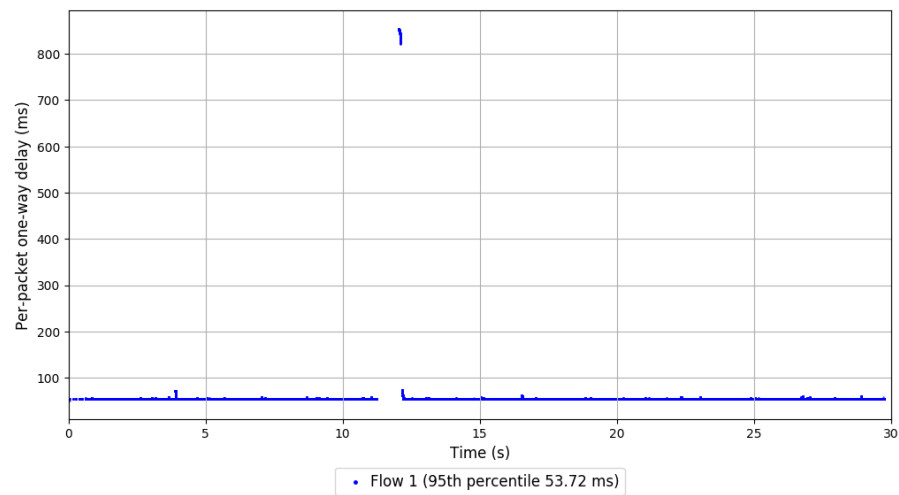
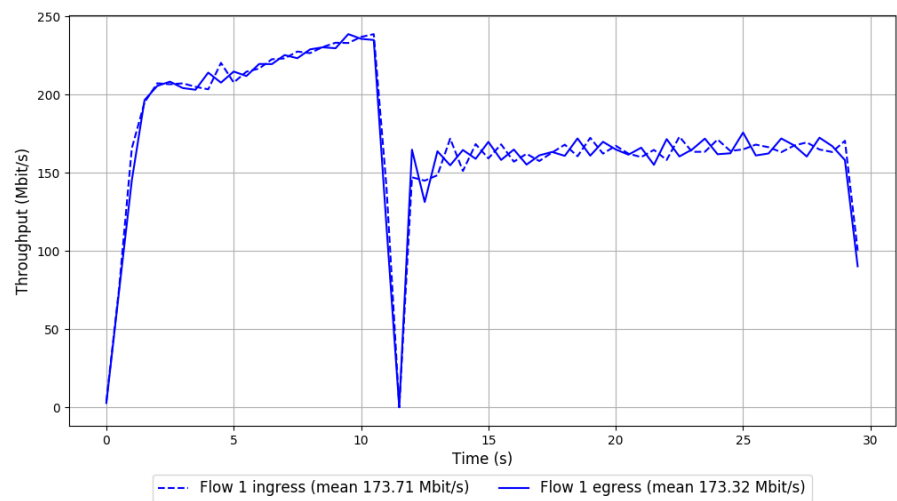
-- Flow 1:

Average throughput: 173.32 Mbit/s

95th percentile per-packet one-way delay: 53.724 ms

Loss rate: 0.56%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-03-06 03:02:01

End at: 2018-03-06 03:02:31

Below is generated by plot.py at 2018-03-06 07:27:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.51 Mbit/s

95th percentile per-packet one-way delay: 53.588 ms

Loss rate: 0.35%

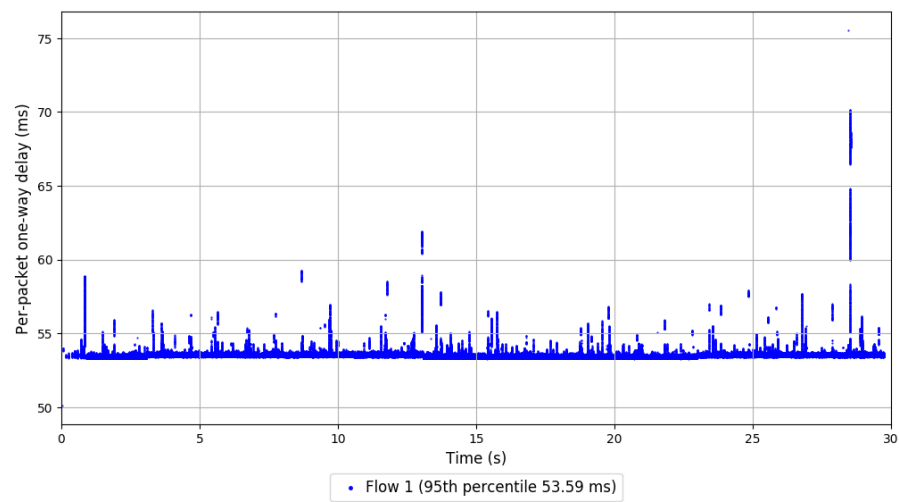
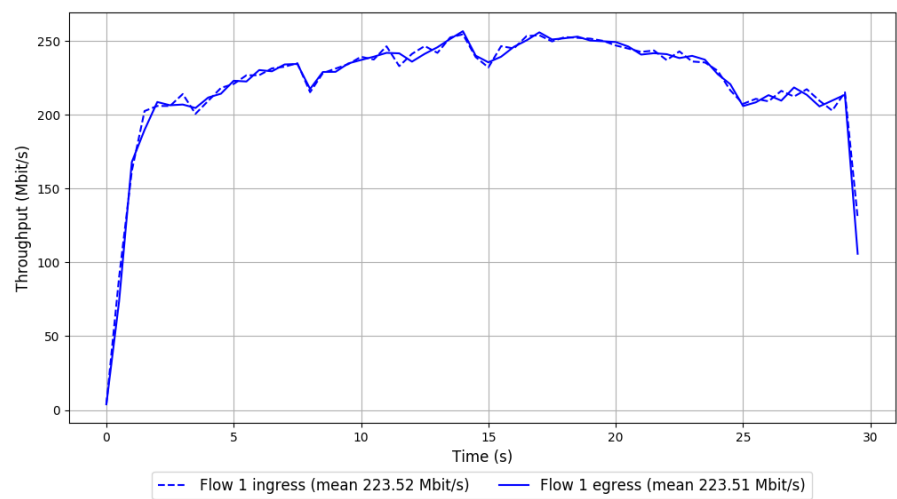
-- Flow 1:

Average throughput: 223.51 Mbit/s

95th percentile per-packet one-way delay: 53.588 ms

Loss rate: 0.35%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-03-06 03:16:46

End at: 2018-03-06 03:17:16

Below is generated by plot.py at 2018-03-06 07:27:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.66 Mbit/s

95th percentile per-packet one-way delay: 53.558 ms

Loss rate: 0.41%

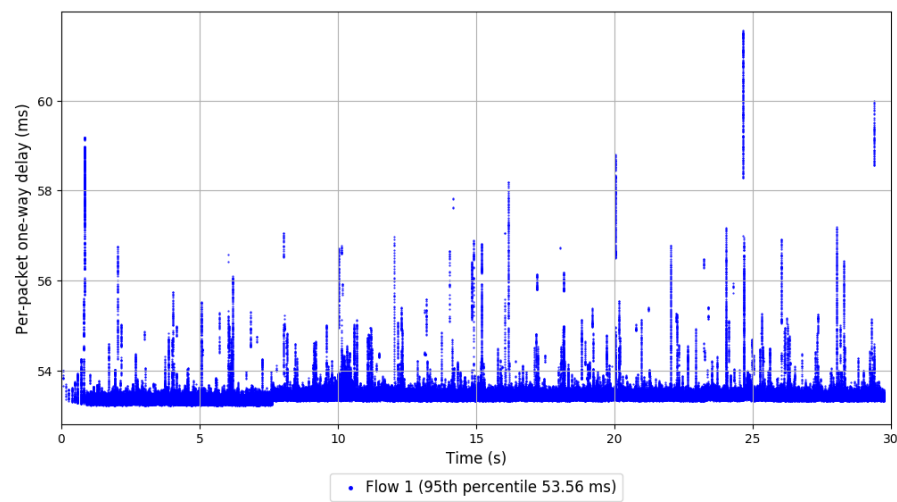
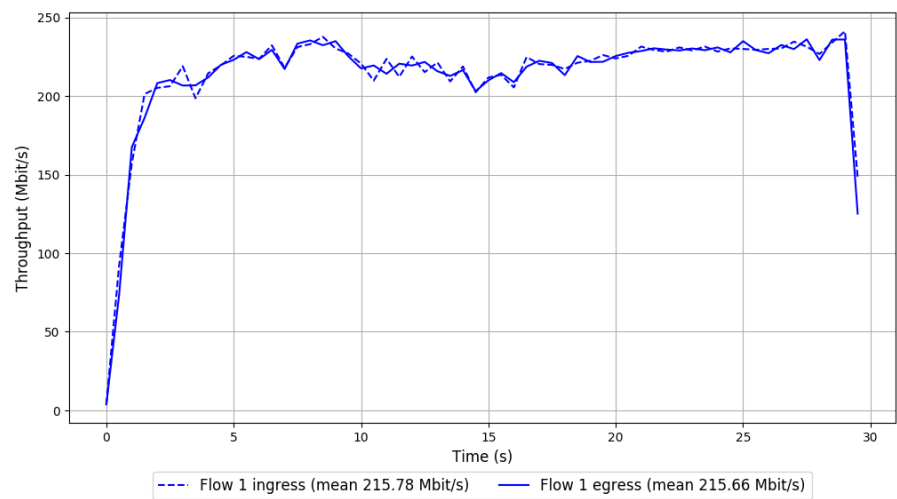
-- Flow 1:

Average throughput: 215.66 Mbit/s

95th percentile per-packet one-way delay: 53.558 ms

Loss rate: 0.41%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-03-06 03:31:19

End at: 2018-03-06 03:31:50

Below is generated by plot.py at 2018-03-06 07:27:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.78 Mbit/s

95th percentile per-packet one-way delay: 53.480 ms

Loss rate: 0.36%

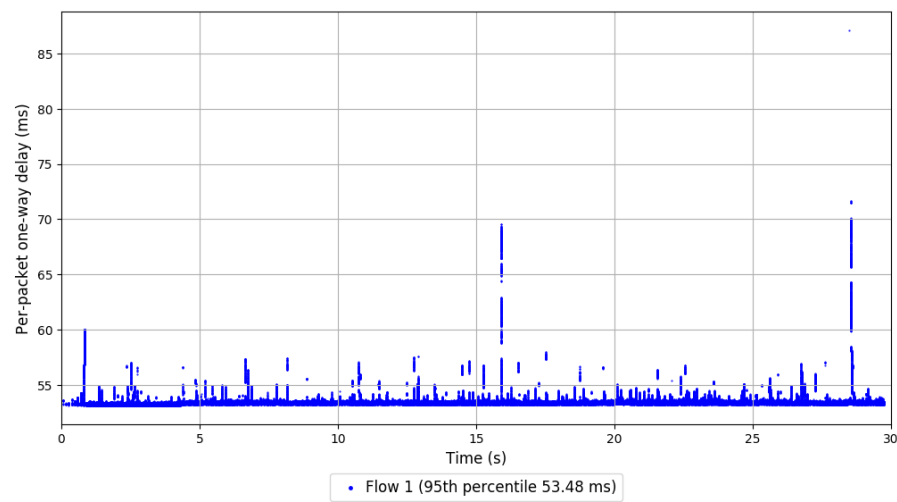
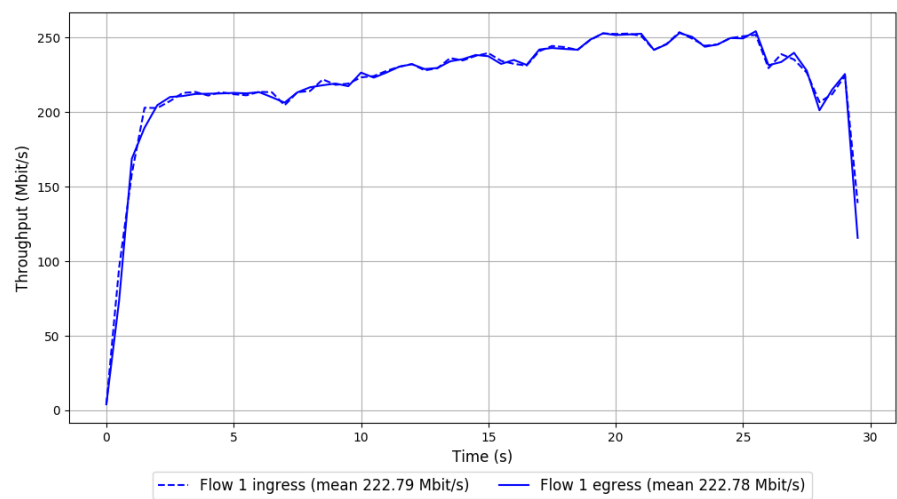
-- Flow 1:

Average throughput: 222.78 Mbit/s

95th percentile per-packet one-way delay: 53.480 ms

Loss rate: 0.36%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-03-06 01:31:09

End at: 2018-03-06 01:31:39

Below is generated by plot.py at 2018-03-06 07:27:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 375.17 Mbit/s

95th percentile per-packet one-way delay: 55.615 ms

Loss rate: 0.36%

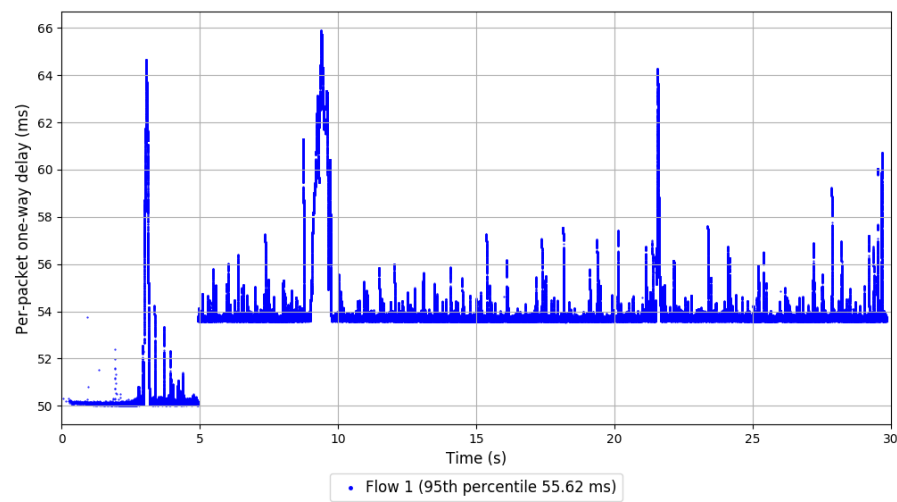
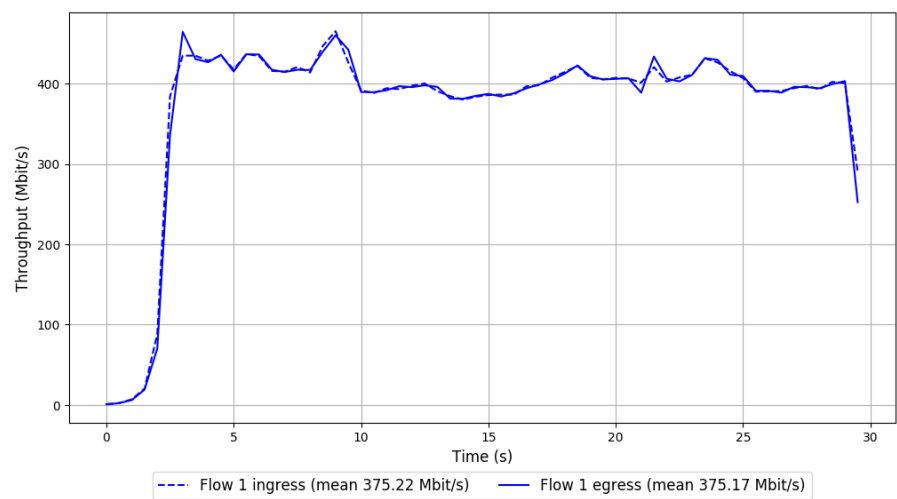
-- Flow 1:

Average throughput: 375.17 Mbit/s

95th percentile per-packet one-way delay: 55.615 ms

Loss rate: 0.36%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-03-06 01:45:28

End at: 2018-03-06 01:45:58

Below is generated by plot.py at 2018-03-06 07:27:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 354.96 Mbit/s

95th percentile per-packet one-way delay: 54.546 ms

Loss rate: 0.31%

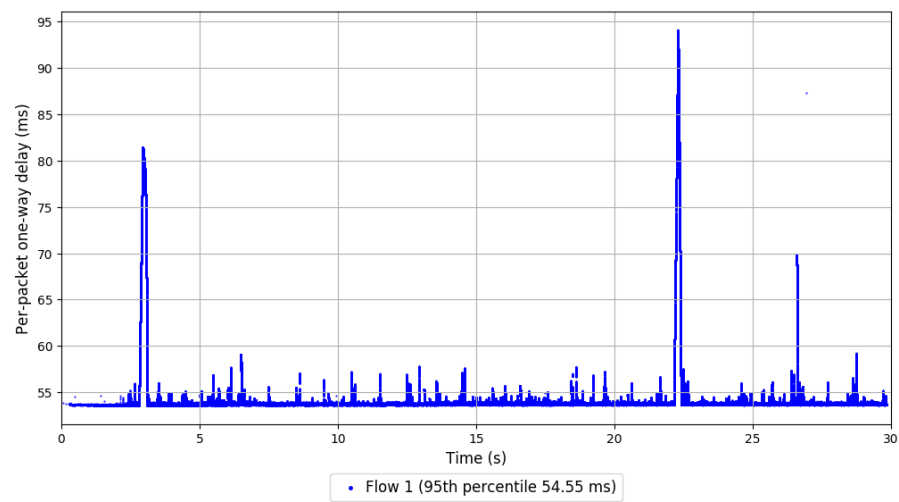
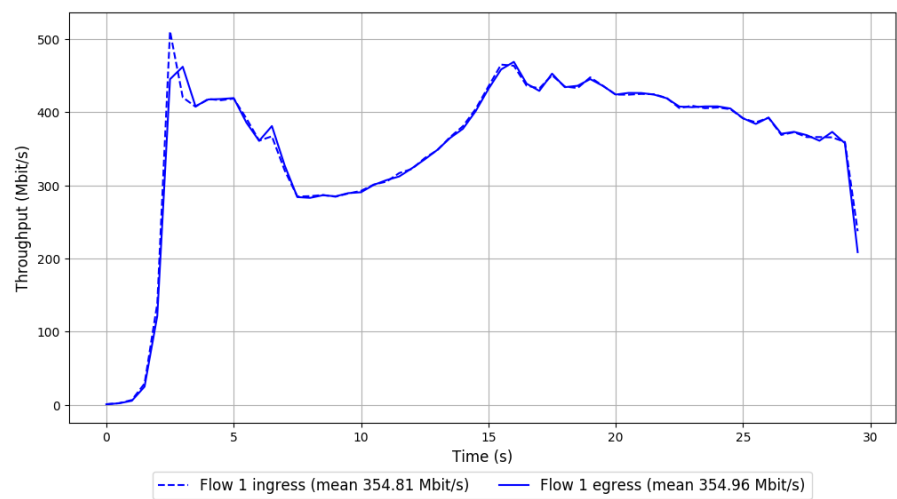
-- Flow 1:

Average throughput: 354.96 Mbit/s

95th percentile per-packet one-way delay: 54.546 ms

Loss rate: 0.31%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-03-06 02:00:02

End at: 2018-03-06 02:00:32

Below is generated by plot.py at 2018-03-06 07:27:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 334.16 Mbit/s

95th percentile per-packet one-way delay: 54.014 ms

Loss rate: 0.50%

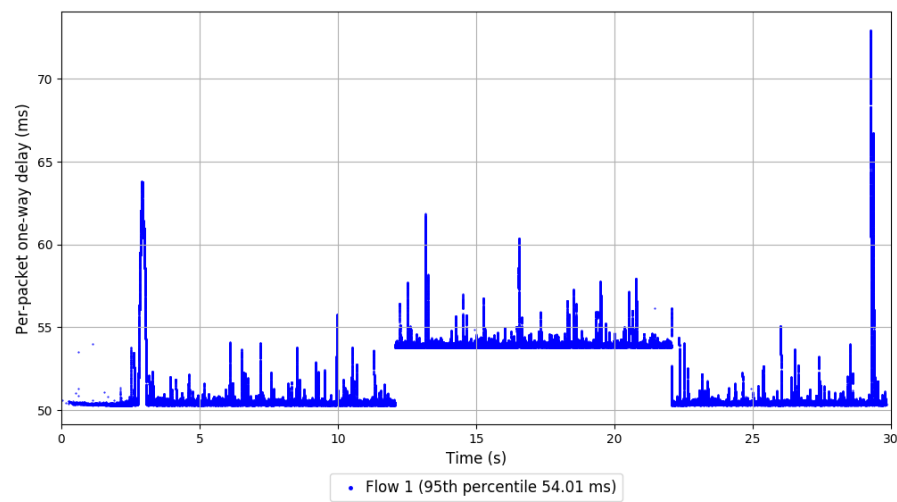
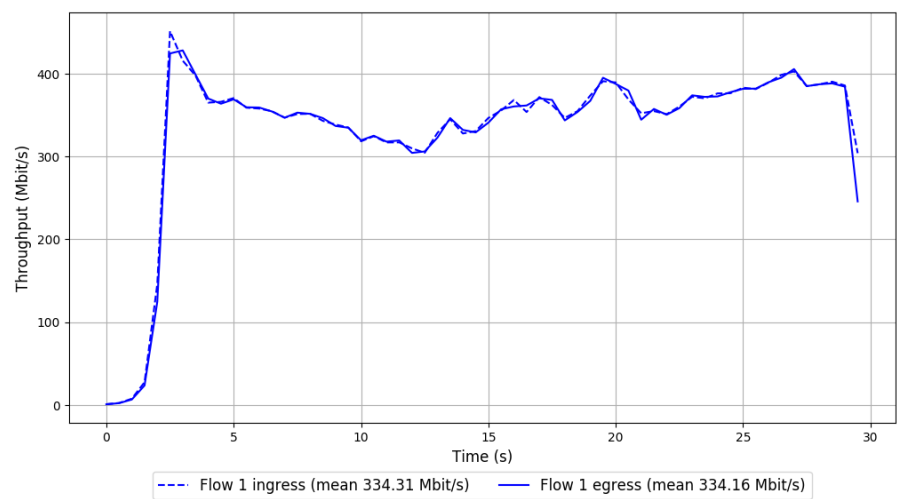
-- Flow 1:

Average throughput: 334.16 Mbit/s

95th percentile per-packet one-way delay: 54.014 ms

Loss rate: 0.50%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-03-06 02:14:17

End at: 2018-03-06 02:14:47

Below is generated by plot.py at 2018-03-06 07:27:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 348.88 Mbit/s

95th percentile per-packet one-way delay: 54.062 ms

Loss rate: 0.40%

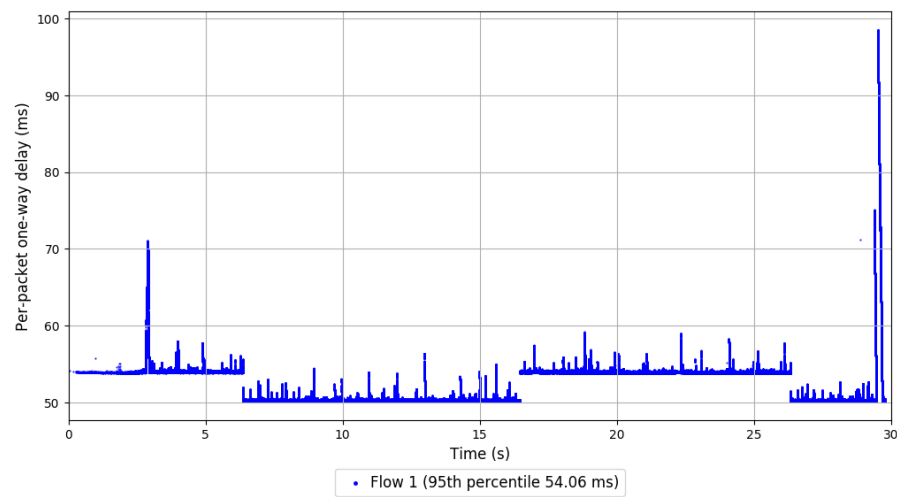
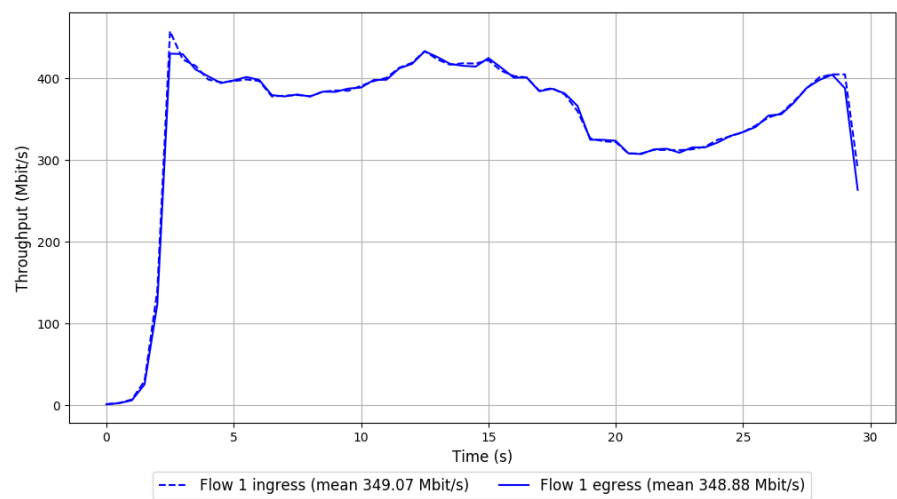
-- Flow 1:

Average throughput: 348.88 Mbit/s

95th percentile per-packet one-way delay: 54.062 ms

Loss rate: 0.40%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-03-06 02:28:52

End at: 2018-03-06 02:29:22

Below is generated by plot.py at 2018-03-06 07:27:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 318.75 Mbit/s

95th percentile per-packet one-way delay: 53.868 ms

Loss rate: 0.41%

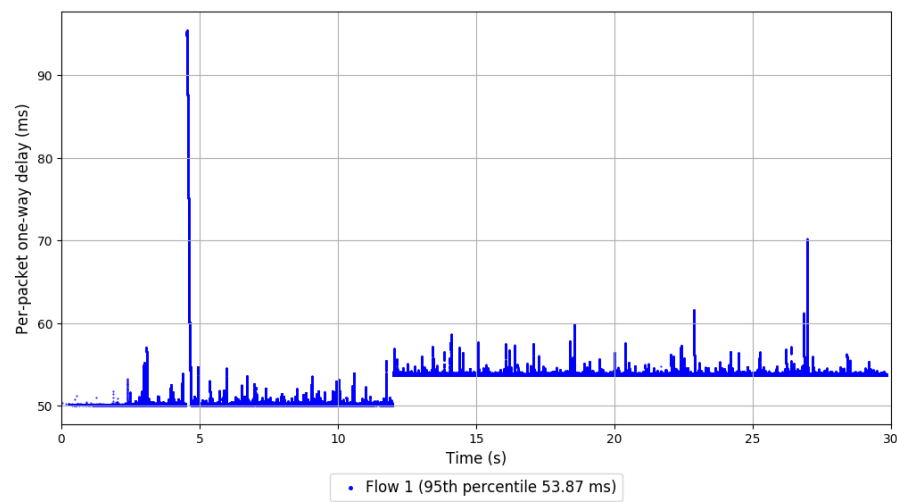
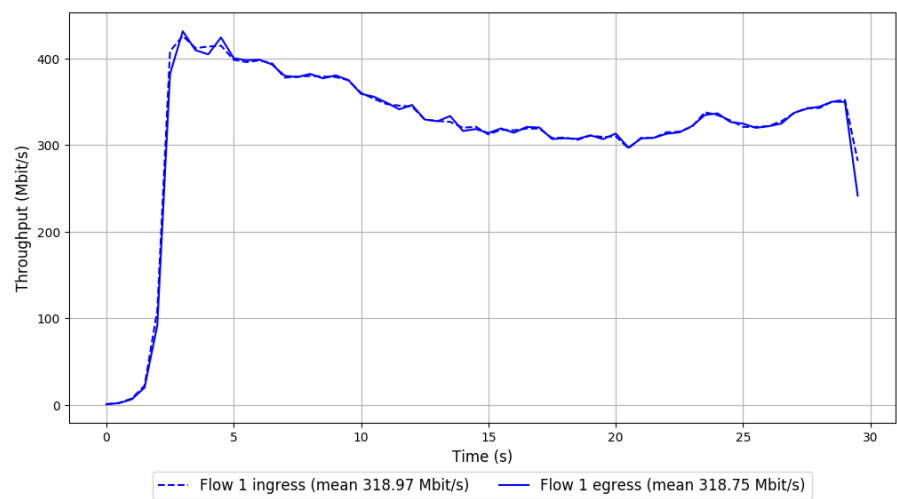
-- Flow 1:

Average throughput: 318.75 Mbit/s

95th percentile per-packet one-way delay: 53.868 ms

Loss rate: 0.41%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-03-06 02:43:20

End at: 2018-03-06 02:43:50

Below is generated by plot.py at 2018-03-06 07:27:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 378.30 Mbit/s

95th percentile per-packet one-way delay: 51.550 ms

Loss rate: 0.41%

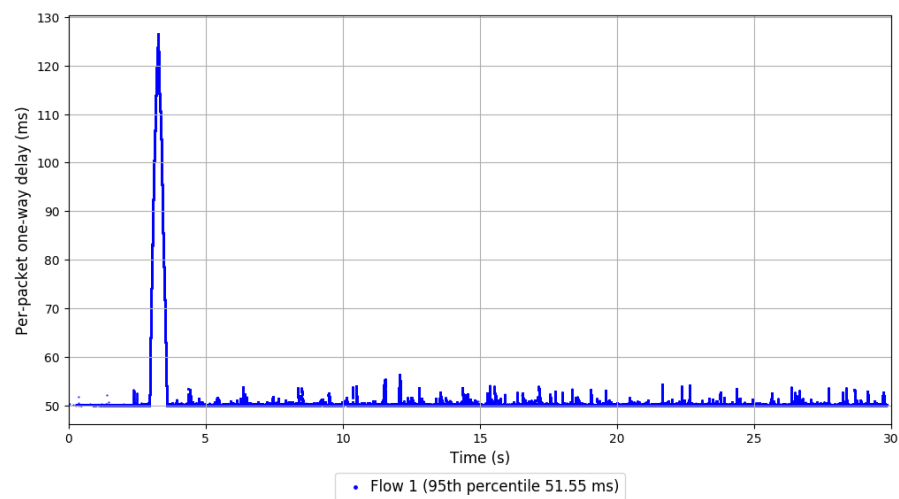
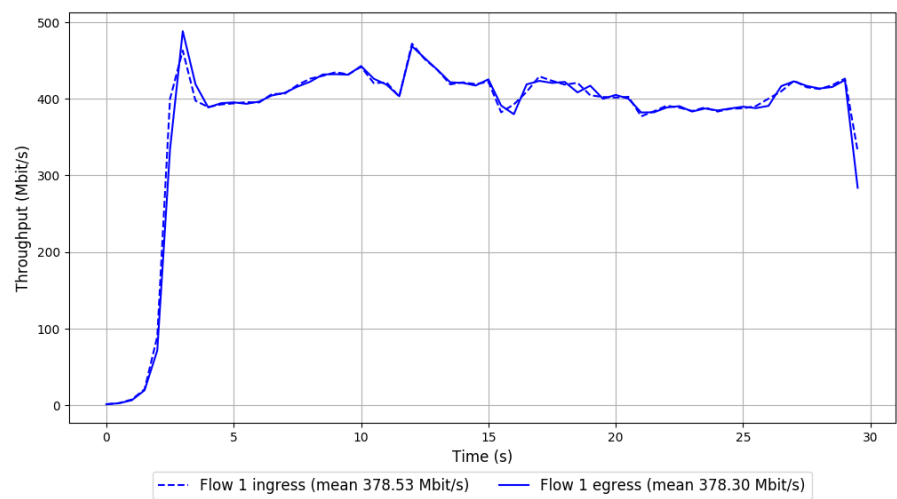
-- Flow 1:

Average throughput: 378.30 Mbit/s

95th percentile per-packet one-way delay: 51.550 ms

Loss rate: 0.41%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-03-06 02:57:38

End at: 2018-03-06 02:58:09

Below is generated by plot.py at 2018-03-06 07:31:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 376.84 Mbit/s

95th percentile per-packet one-way delay: 52.976 ms

Loss rate: 0.20%

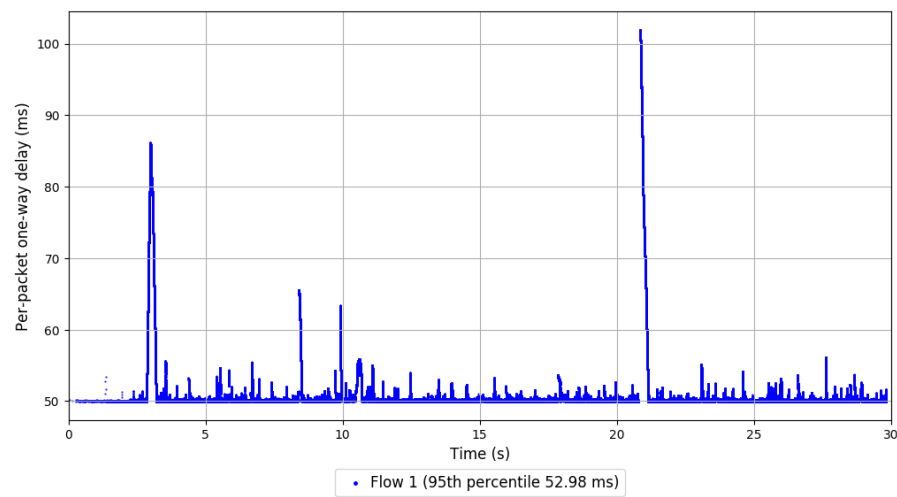
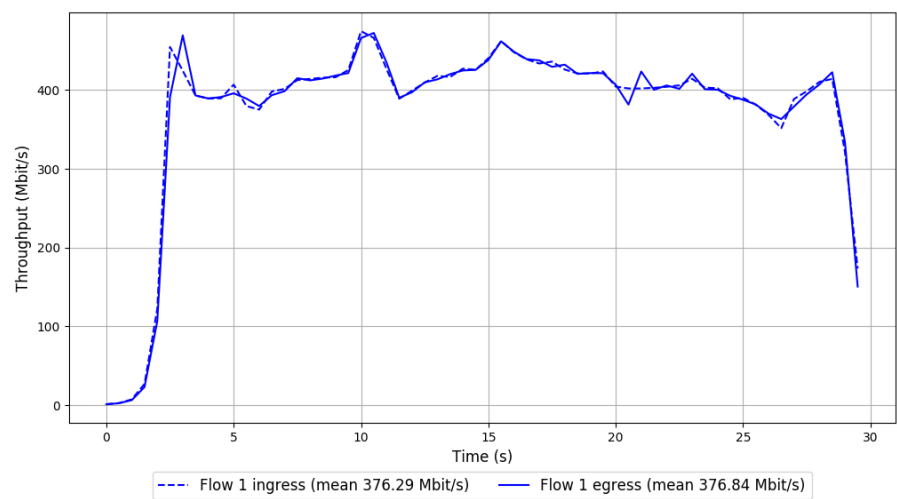
-- Flow 1:

Average throughput: 376.84 Mbit/s

95th percentile per-packet one-way delay: 52.976 ms

Loss rate: 0.20%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-03-06 03:12:17

End at: 2018-03-06 03:12:47

Below is generated by plot.py at 2018-03-06 07:31:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 378.13 Mbit/s

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

Loss rate: 0.43%

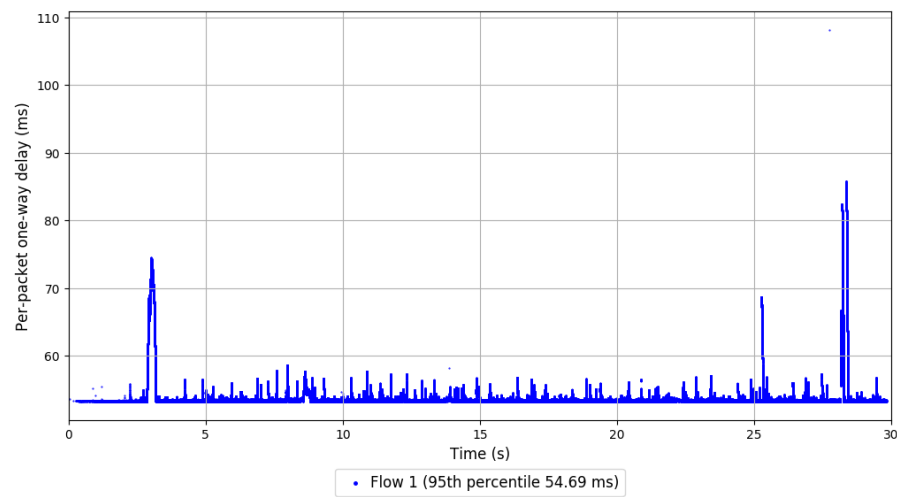
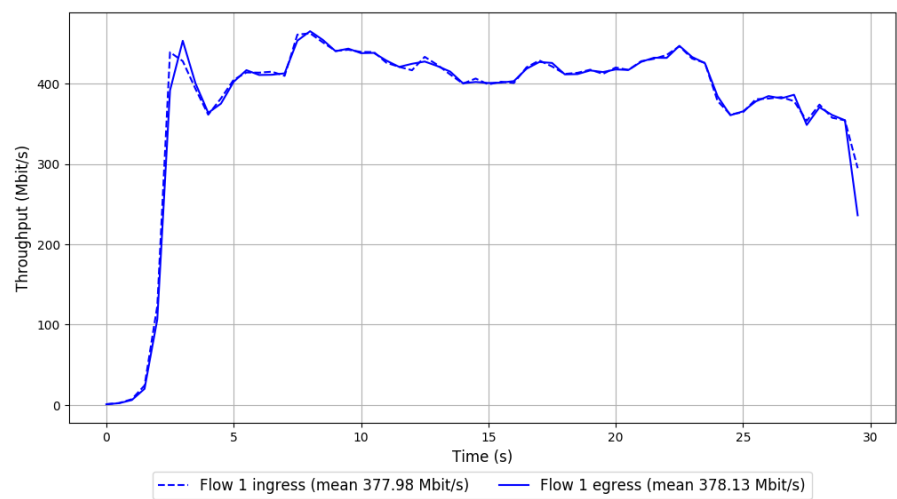
-- Flow 1:

Average throughput: 378.13 Mbit/s

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

Loss rate: 0.43%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-03-06 03:26:53

End at: 2018-03-06 03:27:23

Below is generated by plot.py at 2018-03-06 07:31:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 383.30 Mbit/s

95th percentile per-packet one-way delay: 54.291 ms

Loss rate: 0.38%

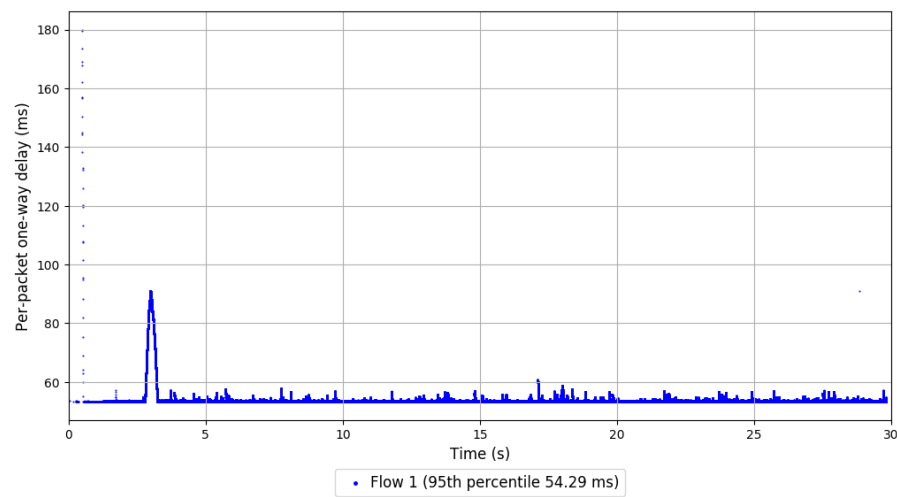
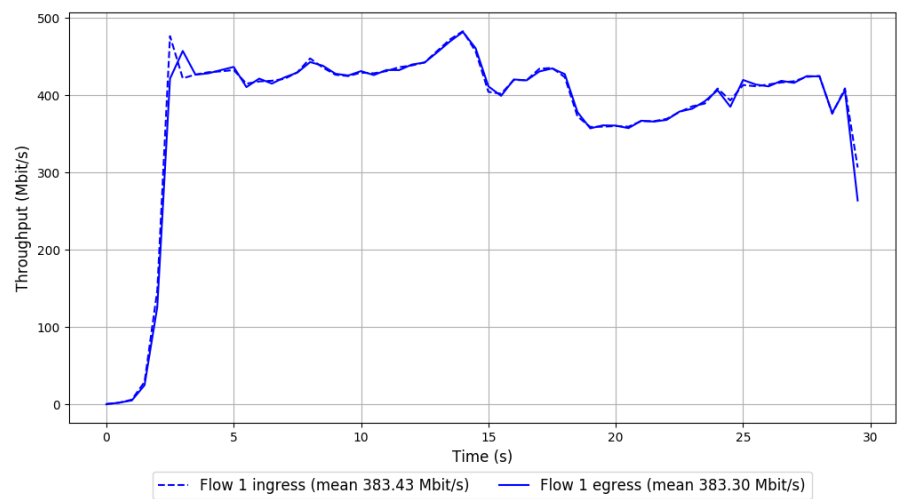
-- Flow 1:

Average throughput: 383.30 Mbit/s

95th percentile per-packet one-way delay: 54.291 ms

Loss rate: 0.38%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-03-06 03:41:16

End at: 2018-03-06 03:41:46

Below is generated by plot.py at 2018-03-06 07:31:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 319.84 Mbit/s

95th percentile per-packet one-way delay: 53.340 ms

Loss rate: 0.38%

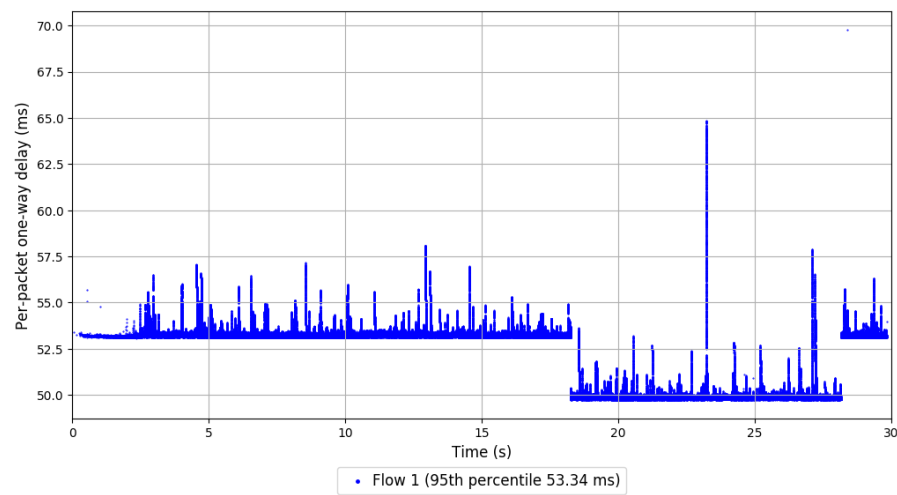
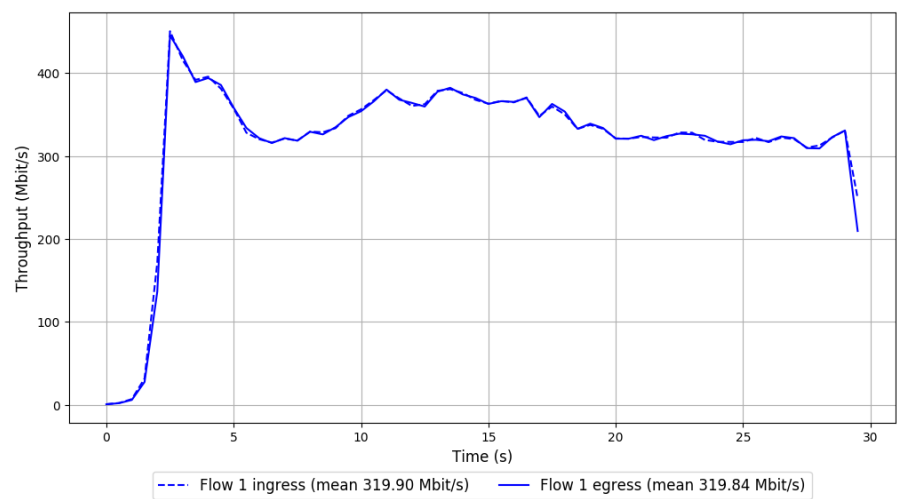
-- Flow 1:

Average throughput: 319.84 Mbit/s

95th percentile per-packet one-way delay: 53.340 ms

Loss rate: 0.38%

Run 10: Report of Vivace-latency — Data Link

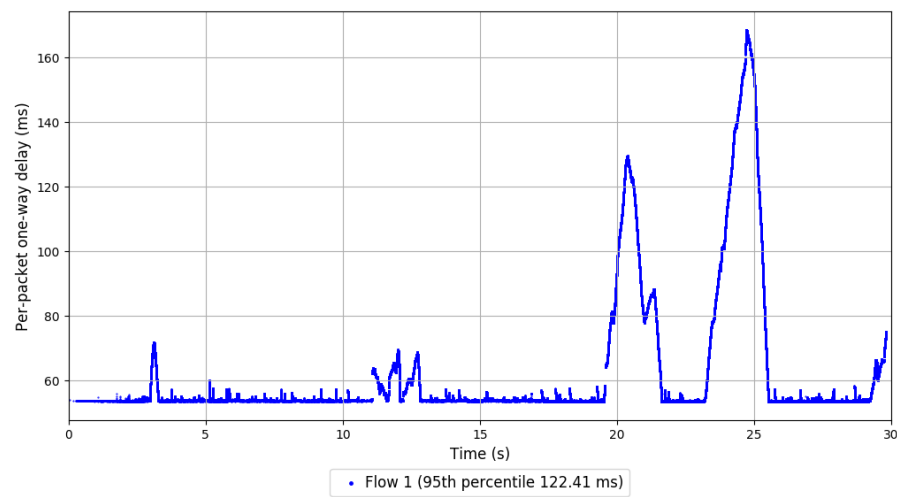
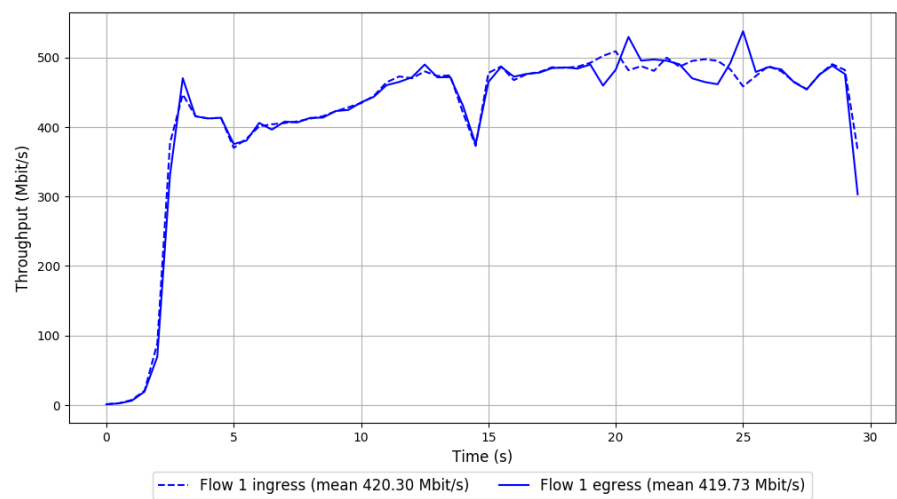


```
Run 1: Statistics of Vivace-loss

Start at: 2018-03-06 01:22:07
End at: 2018-03-06 01:22:37

# Below is generated by plot.py at 2018-03-06 07:33:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 419.73 Mbit/s
95th percentile per-packet one-way delay: 122.409 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 419.73 Mbit/s
95th percentile per-packet one-way delay: 122.409 ms
Loss rate: 0.48%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-03-06 01:36:22

End at: 2018-03-06 01:36:52

Below is generated by plot.py at 2018-03-06 07:33:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 425.09 Mbit/s

95th percentile per-packet one-way delay: 74.709 ms

Loss rate: 0.36%

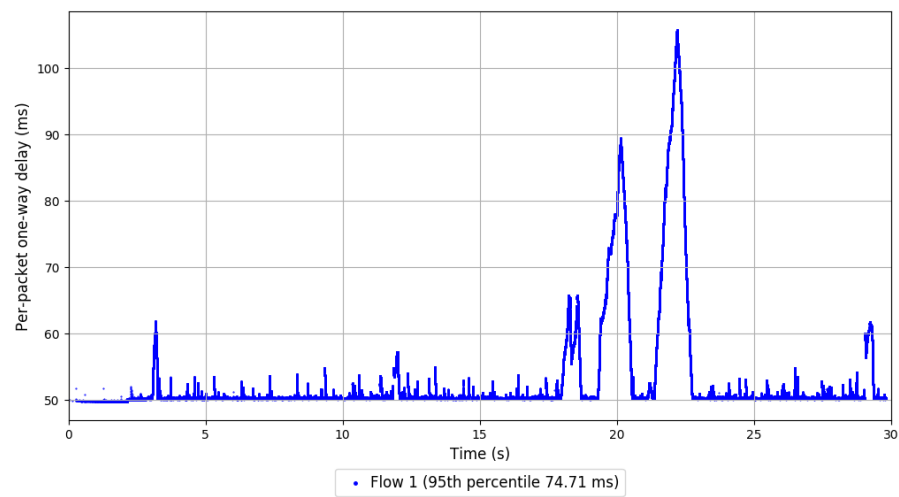
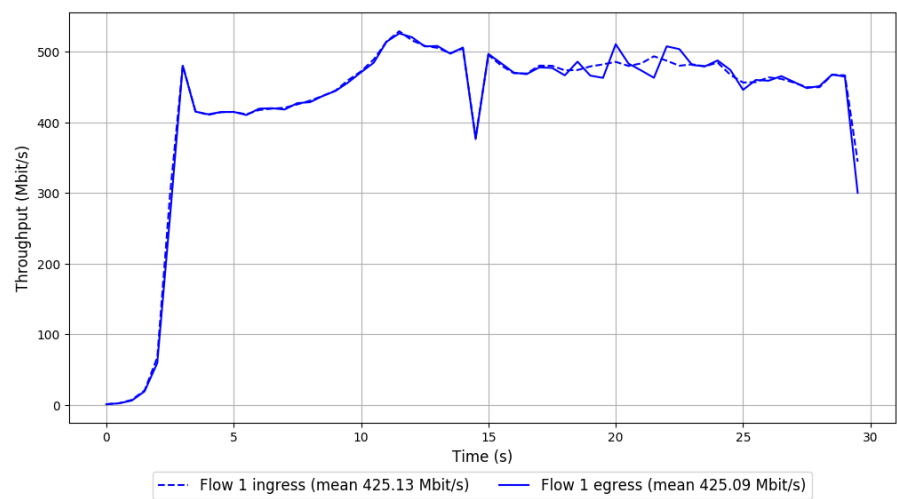
-- Flow 1:

Average throughput: 425.09 Mbit/s

95th percentile per-packet one-way delay: 74.709 ms

Loss rate: 0.36%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-03-06 01:50:41

End at: 2018-03-06 01:51:11

Below is generated by plot.py at 2018-03-06 07:34:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 411.52 Mbit/s

95th percentile per-packet one-way delay: 105.180 ms

Loss rate: 0.41%

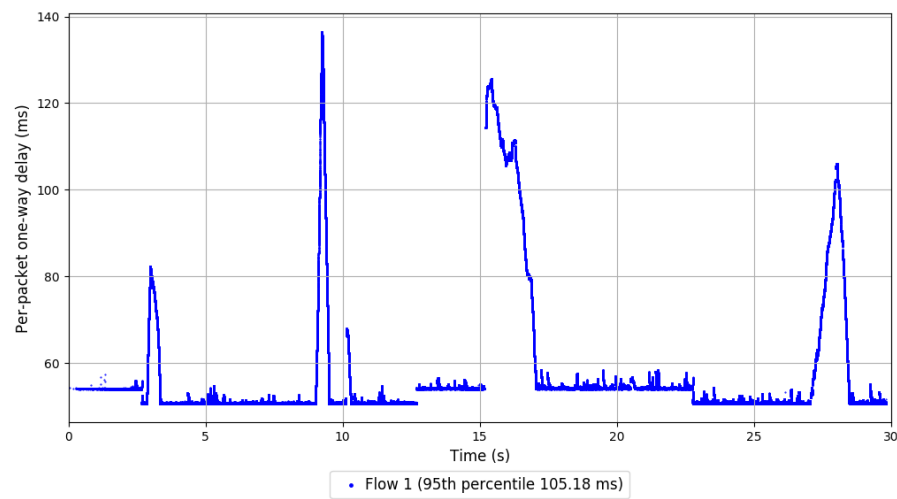
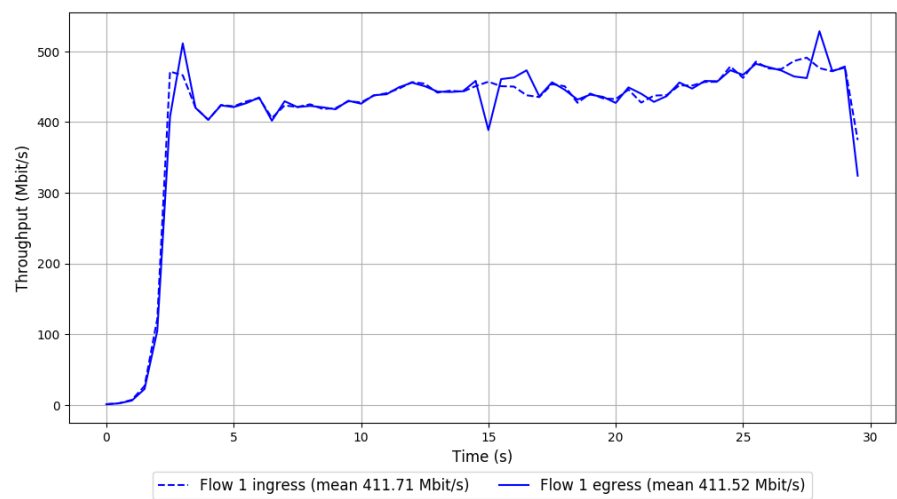
-- Flow 1:

Average throughput: 411.52 Mbit/s

95th percentile per-packet one-way delay: 105.180 ms

Loss rate: 0.41%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-03-06 02:05:16

End at: 2018-03-06 02:05:46

Below is generated by plot.py at 2018-03-06 07:34:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 368.30 Mbit/s

95th percentile per-packet one-way delay: 192.906 ms

Loss rate: 2.59%

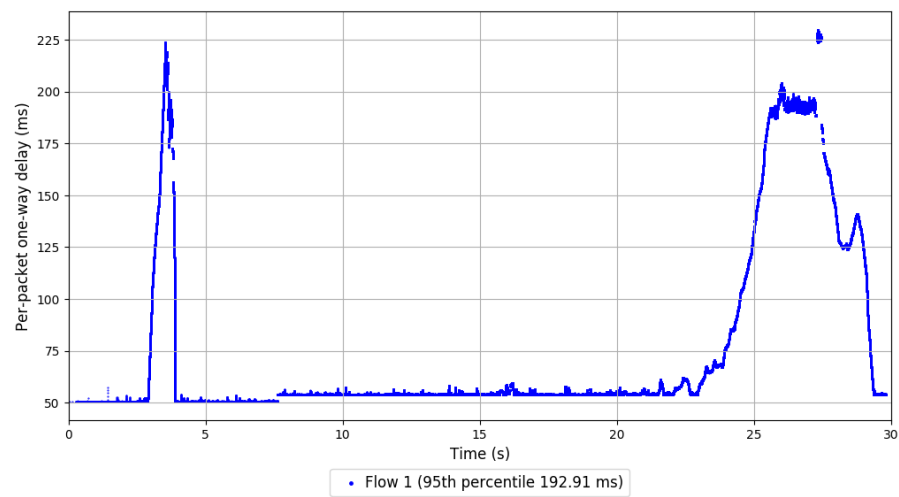
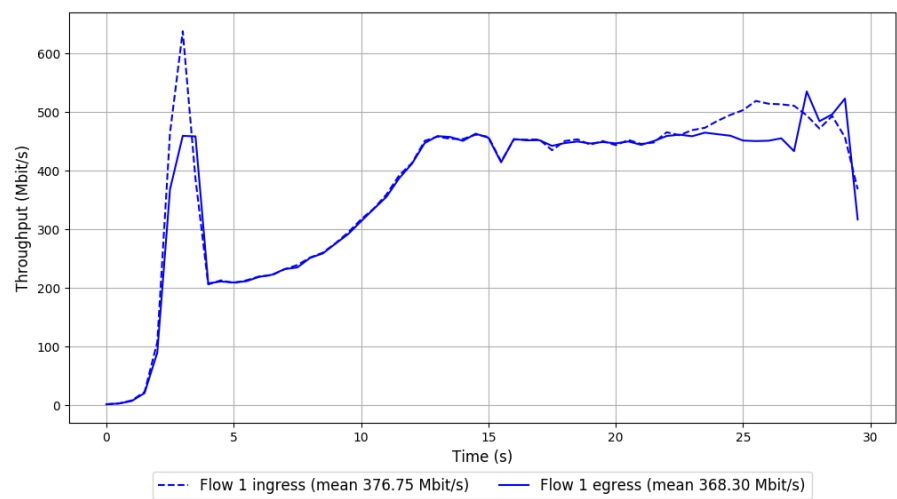
-- Flow 1:

Average throughput: 368.30 Mbit/s

95th percentile per-packet one-way delay: 192.906 ms

Loss rate: 2.59%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-03-06 02:19:30

End at: 2018-03-06 02:20:00

Below is generated by plot.py at 2018-03-06 07:37:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 401.58 Mbit/s

95th percentile per-packet one-way delay: 158.869 ms

Loss rate: 0.49%

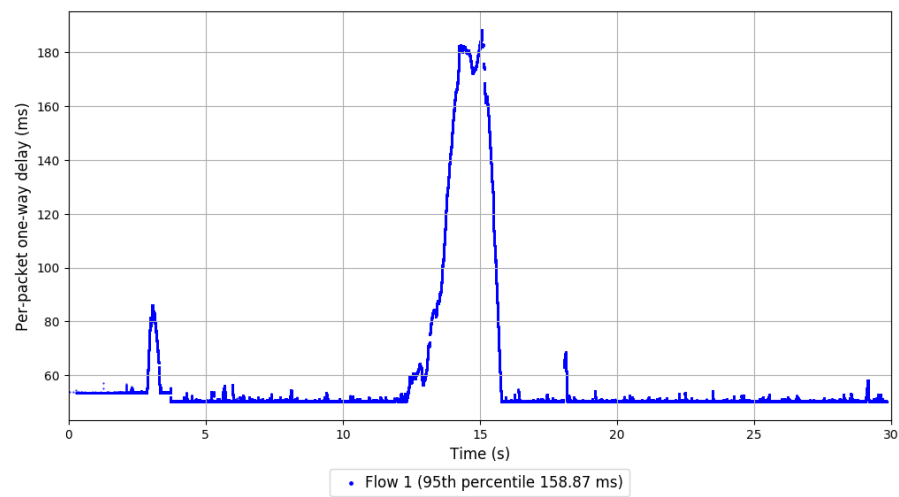
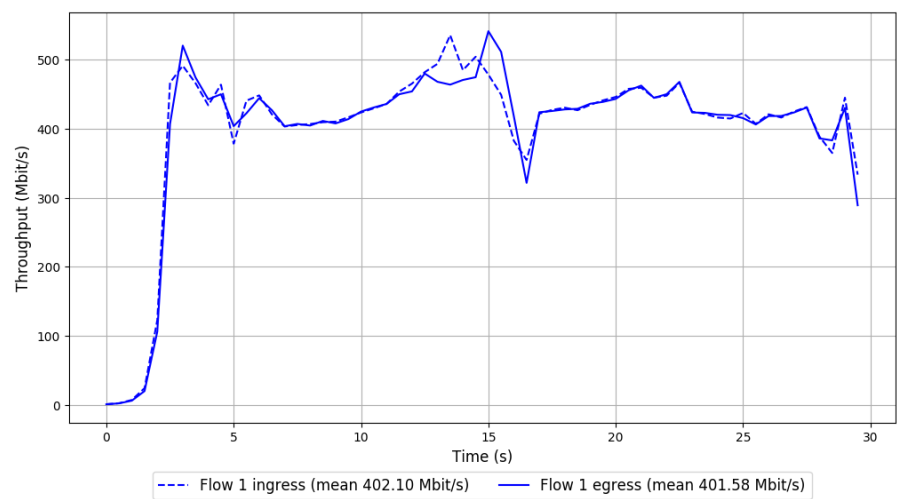
-- Flow 1:

Average throughput: 401.58 Mbit/s

95th percentile per-packet one-way delay: 158.869 ms

Loss rate: 0.49%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-03-06 02:34:14

End at: 2018-03-06 02:34:44

Below is generated by plot.py at 2018-03-06 07:37:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 372.44 Mbit/s

95th percentile per-packet one-way delay: 175.381 ms

Loss rate: 0.91%

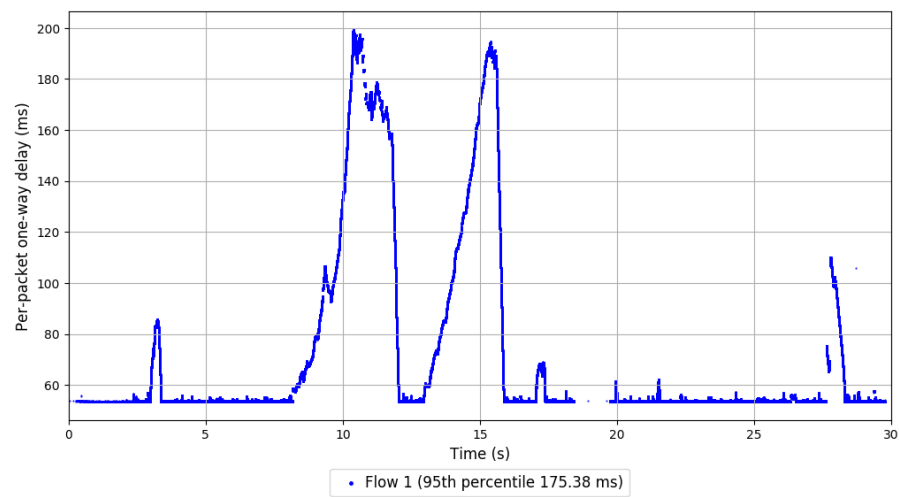
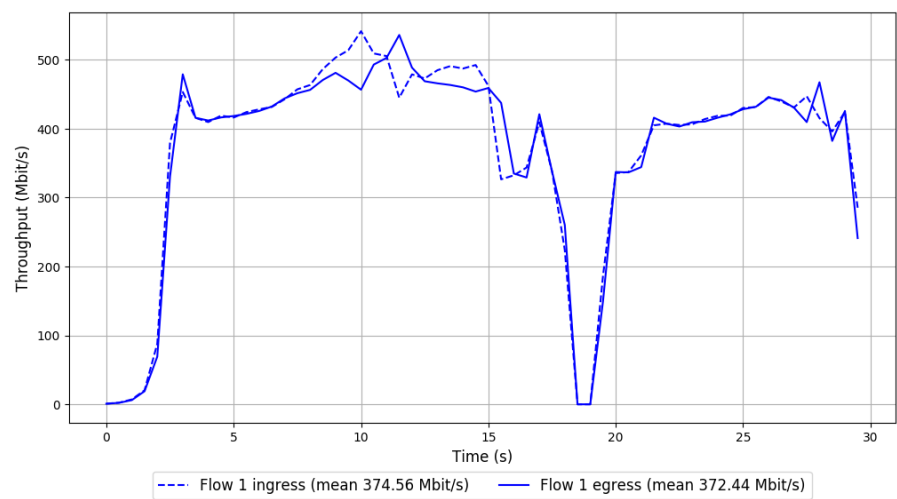
-- Flow 1:

Average throughput: 372.44 Mbit/s

95th percentile per-packet one-way delay: 175.381 ms

Loss rate: 0.91%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-03-06 02:48:30

End at: 2018-03-06 02:49:01

Below is generated by plot.py at 2018-03-06 07:37:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 376.41 Mbit/s

95th percentile per-packet one-way delay: 62.080 ms

Loss rate: 0.34%

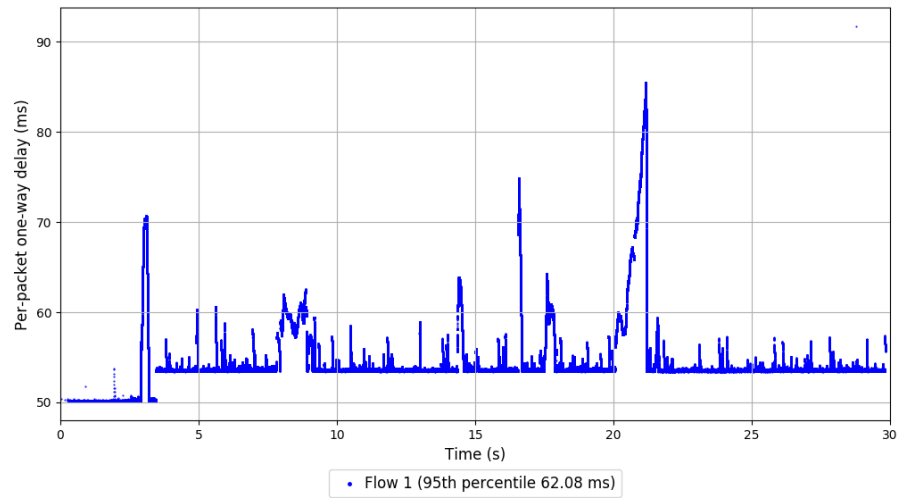
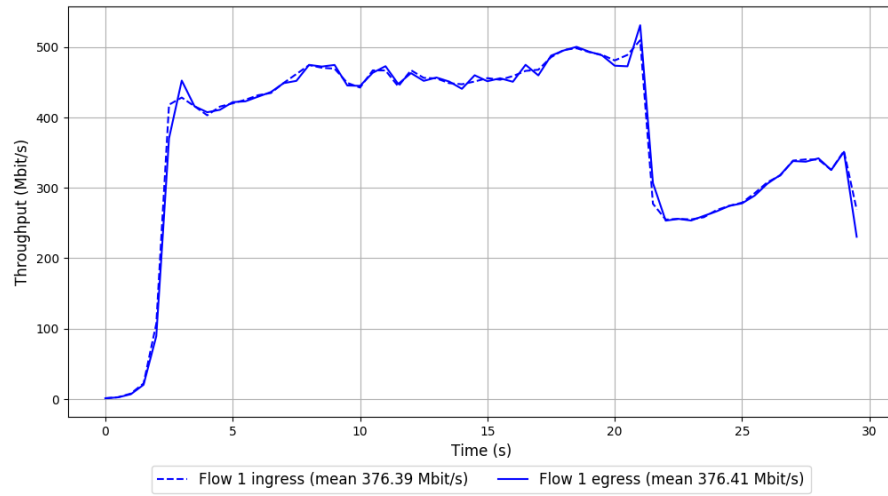
-- Flow 1:

Average throughput: 376.41 Mbit/s

95th percentile per-packet one-way delay: 62.080 ms

Loss rate: 0.34%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-03-06 03:02:51

End at: 2018-03-06 03:03:21

Below is generated by plot.py at 2018-03-06 07:37:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 382.18 Mbit/s

95th percentile per-packet one-way delay: 54.676 ms

Loss rate: 0.23%

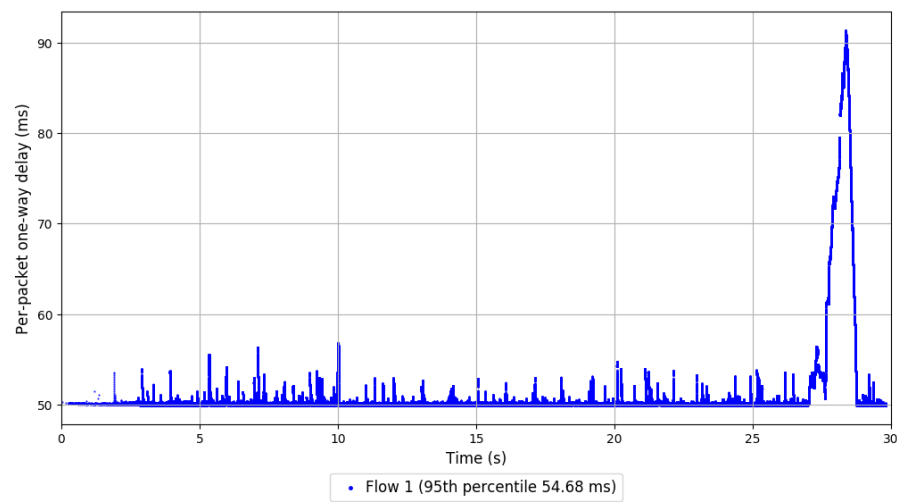
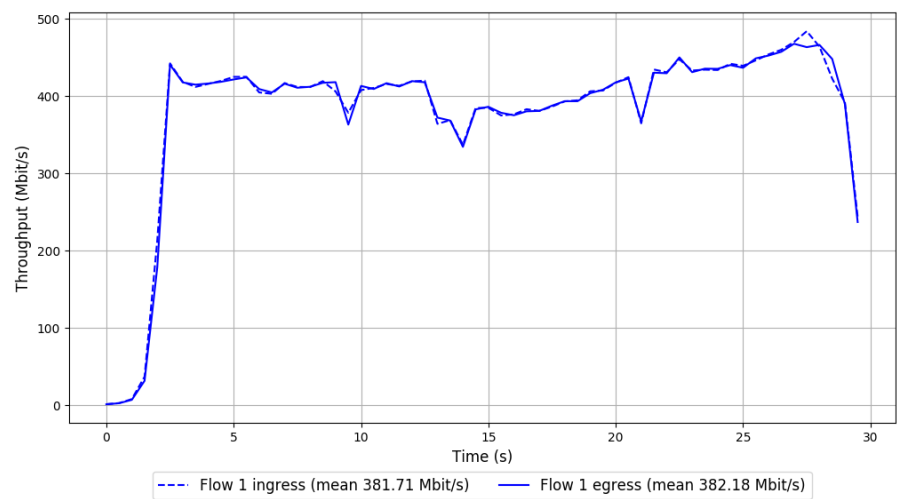
-- Flow 1:

Average throughput: 382.18 Mbit/s

95th percentile per-packet one-way delay: 54.676 ms

Loss rate: 0.23%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-03-06 03:17:36

End at: 2018-03-06 03:18:06

Below is generated by plot.py at 2018-03-06 07:39:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 354.18 Mbit/s

95th percentile per-packet one-way delay: 113.780 ms

Loss rate: 0.63%

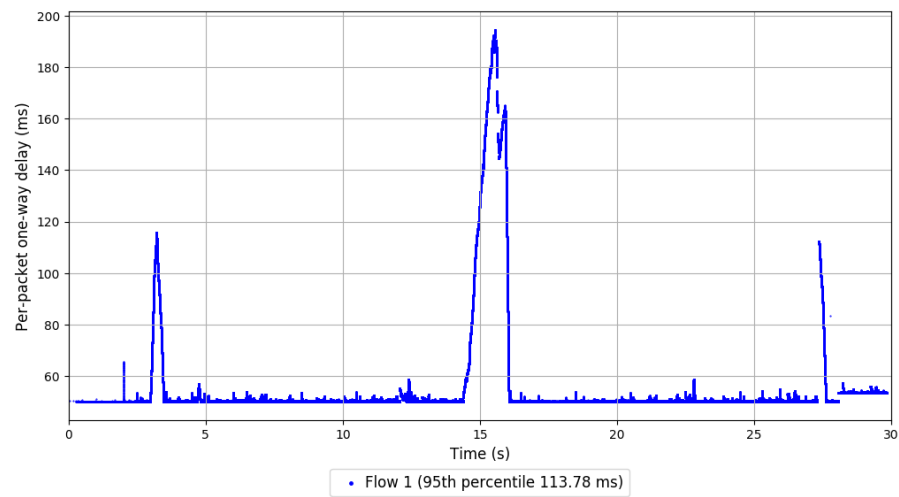
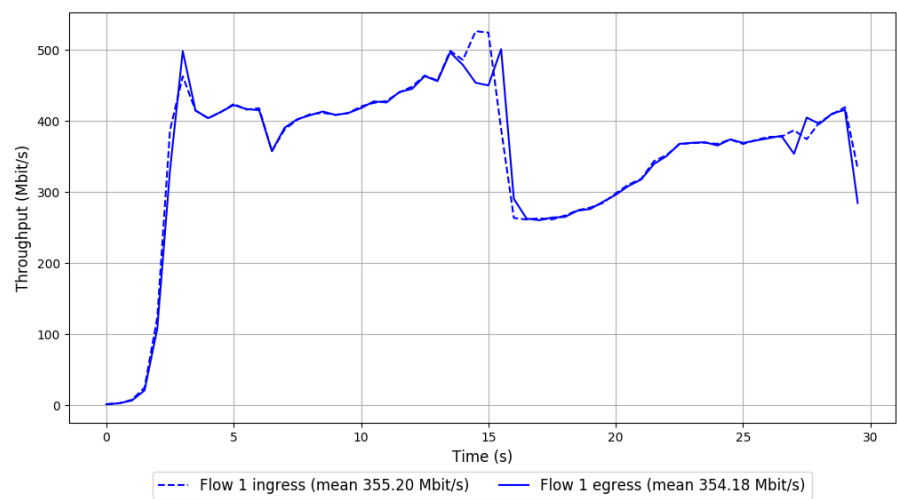
-- Flow 1:

Average throughput: 354.18 Mbit/s

95th percentile per-packet one-way delay: 113.780 ms

Loss rate: 0.63%

Run 9: Report of Vivace-loss — Data Link

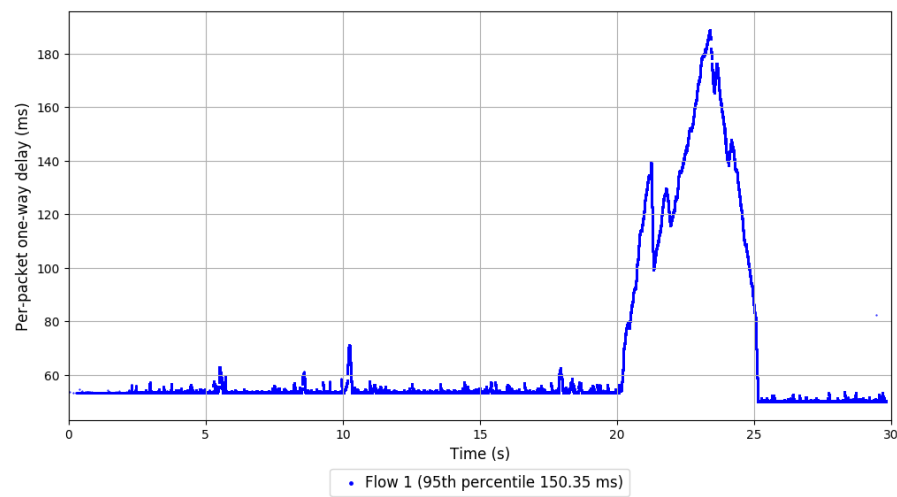
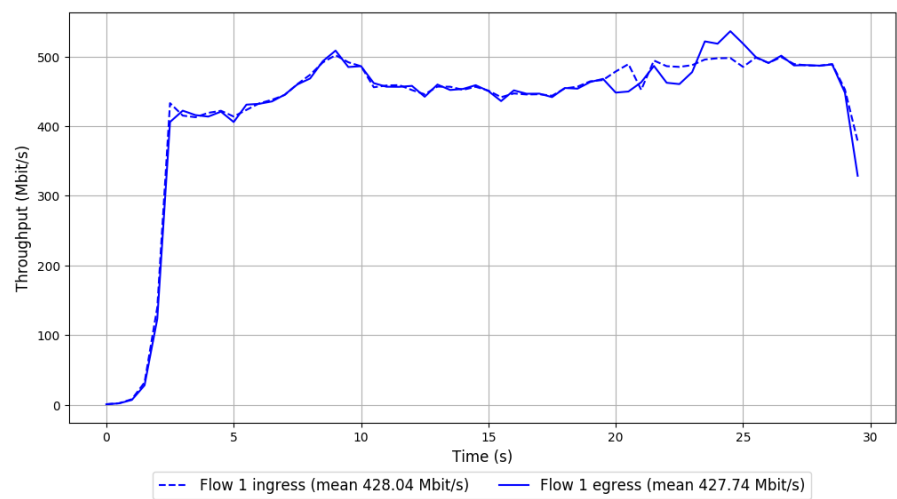


```
Run 10: Statistics of Vivace-loss

Start at: 2018-03-06 03:32:10
End at: 2018-03-06 03:32:40

# Below is generated by plot.py at 2018-03-06 07:40:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 427.74 Mbit/s
95th percentile per-packet one-way delay: 150.353 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 427.74 Mbit/s
95th percentile per-packet one-way delay: 150.353 ms
Loss rate: 0.43%
```

Run 10: Report of Vivace-loss — Data Link

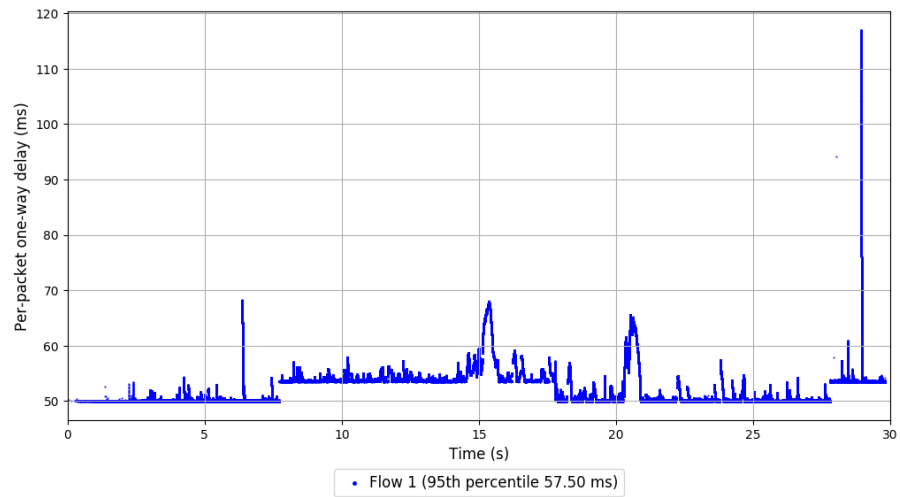
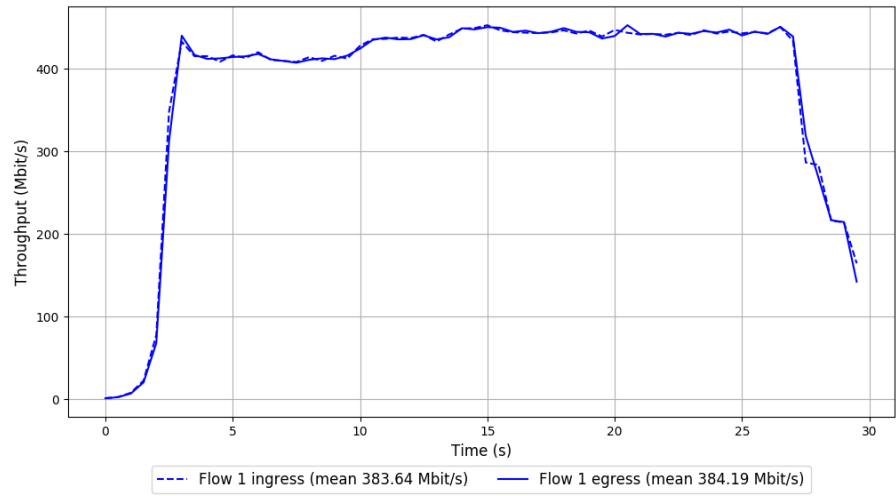


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-03-06 01:33:46
End at: 2018-03-06 01:34:16

# Below is generated by plot.py at 2018-03-06 07:40:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 384.19 Mbit/s
95th percentile per-packet one-way delay: 57.503 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 384.19 Mbit/s
95th percentile per-packet one-way delay: 57.503 ms
Loss rate: 0.19%
```

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-03-06 01:48:04

End at: 2018-03-06 01:48:34

Below is generated by plot.py at 2018-03-06 07:41:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 399.03 Mbit/s

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

Loss rate: 0.33%

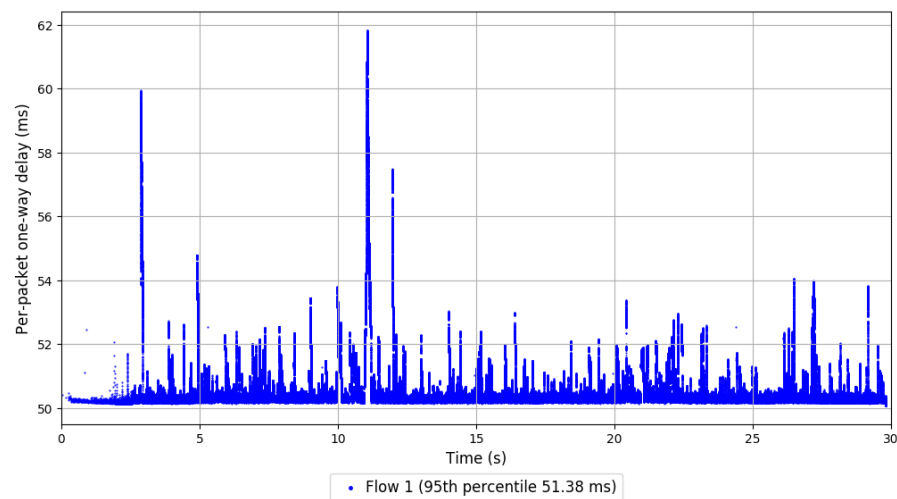
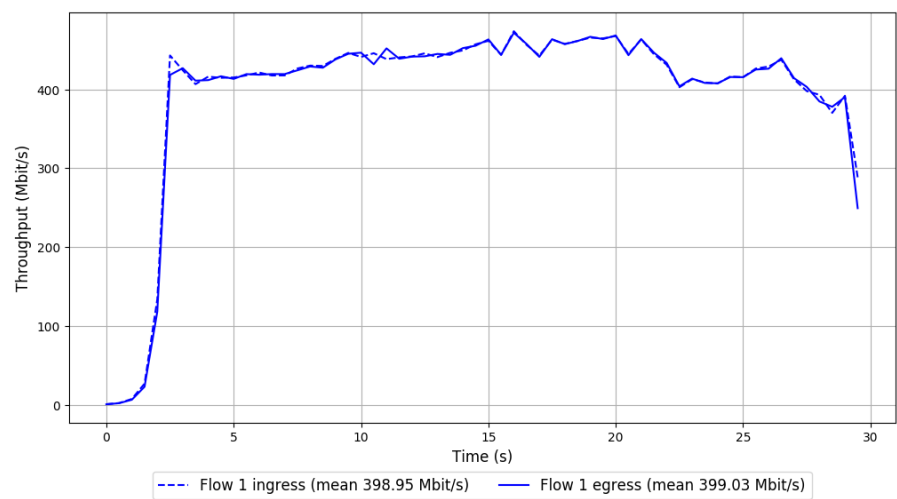
-- Flow 1:

Average throughput: 399.03 Mbit/s

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

Loss rate: 0.33%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-03-06 02:02:40

End at: 2018-03-06 02:03:10

Below is generated by plot.py at 2018-03-06 07:44:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 418.60 Mbit/s

95th percentile per-packet one-way delay: 62.796 ms

Loss rate: 0.37%

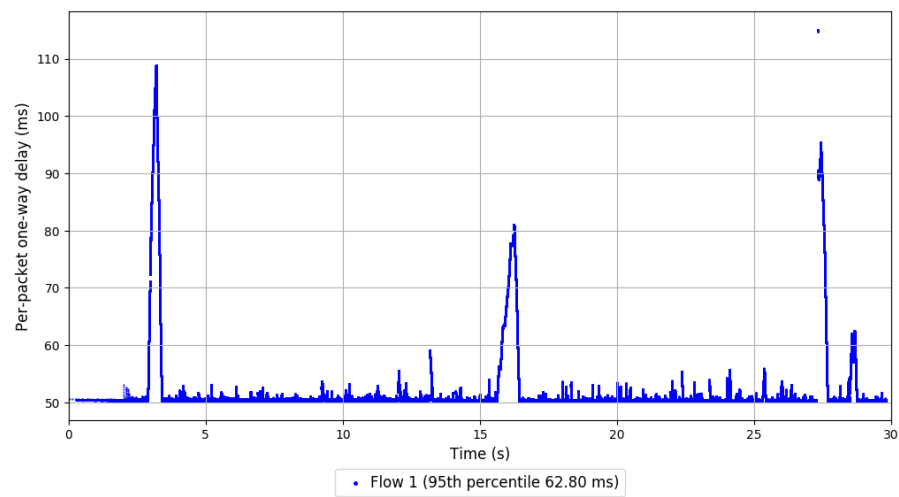
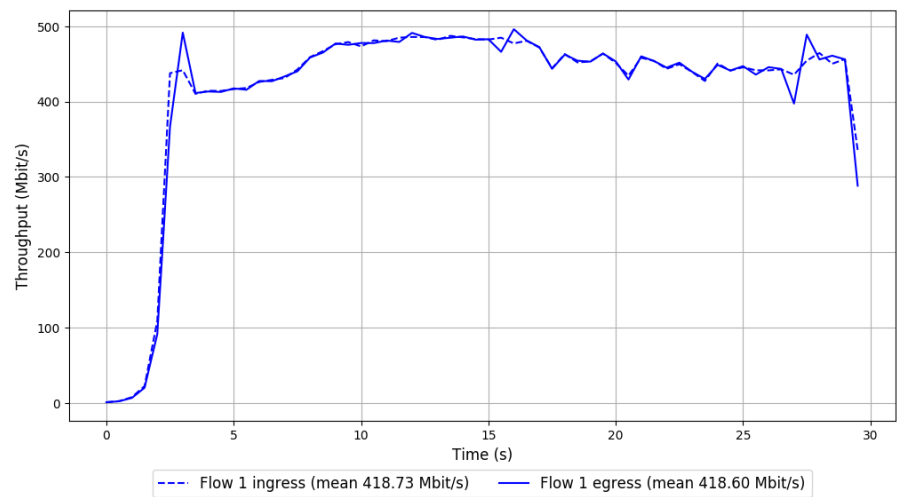
-- Flow 1:

Average throughput: 418.60 Mbit/s

95th percentile per-packet one-way delay: 62.796 ms

Loss rate: 0.37%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-03-06 02:16:58

End at: 2018-03-06 02:17:28

Below is generated by plot.py at 2018-03-06 07:44:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 343.22 Mbit/s

95th percentile per-packet one-way delay: 68.908 ms

Loss rate: 1.49%

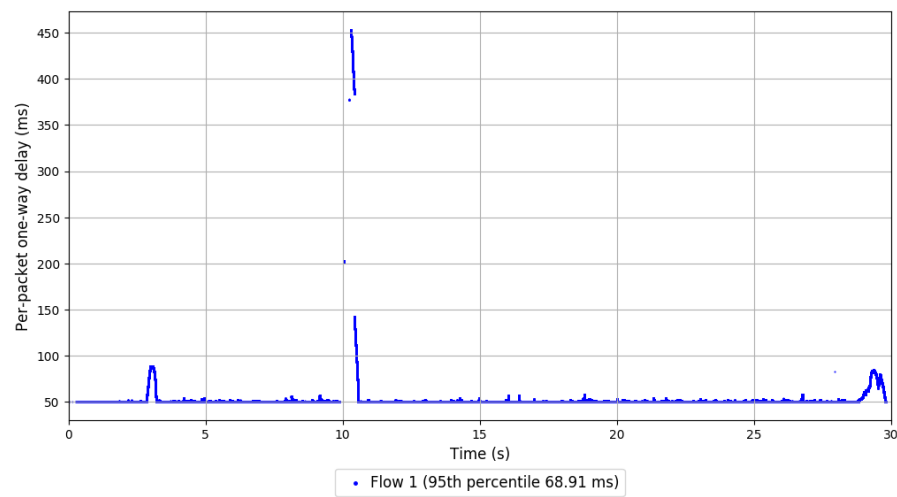
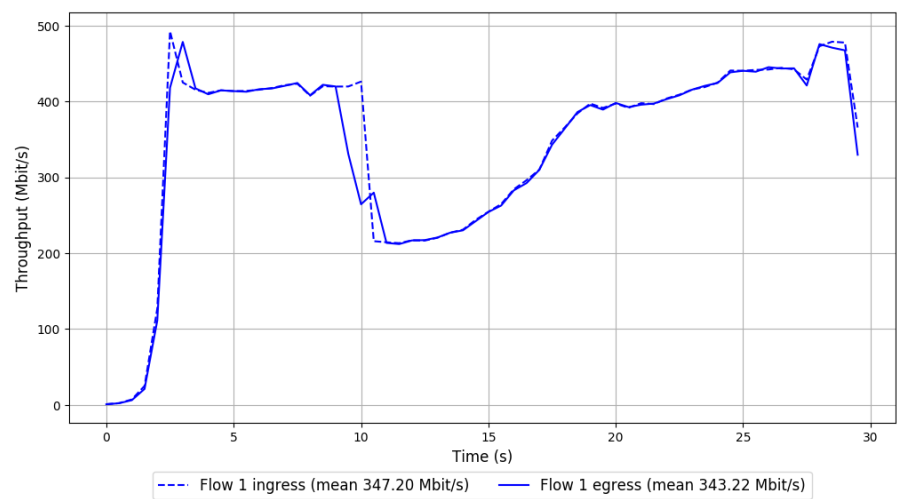
-- Flow 1:

Average throughput: 343.22 Mbit/s

95th percentile per-packet one-way delay: 68.908 ms

Loss rate: 1.49%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-03-06 02:31:27

End at: 2018-03-06 02:31:57

Below is generated by plot.py at 2018-03-06 07:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 408.36 Mbit/s

95th percentile per-packet one-way delay: 74.499 ms

Loss rate: 0.36%

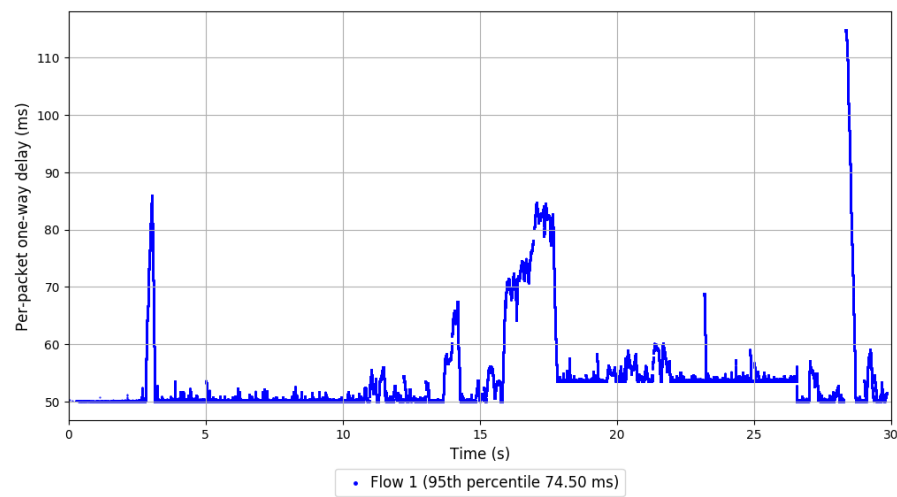
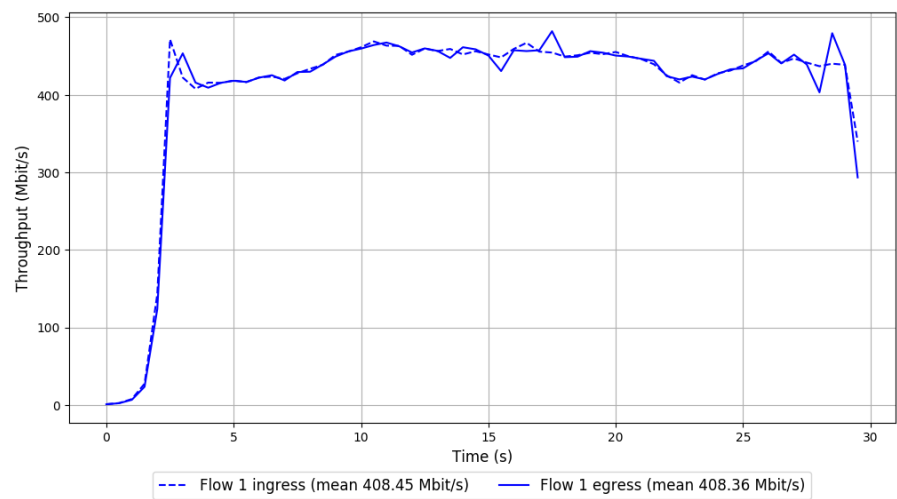
-- Flow 1:

Average throughput: 408.36 Mbit/s

95th percentile per-packet one-way delay: 74.499 ms

Loss rate: 0.36%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-03-06 02:45:57

End at: 2018-03-06 02:46:27

Below is generated by plot.py at 2018-03-06 07:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 401.91 Mbit/s

95th percentile per-packet one-way delay: 84.750 ms

Loss rate: 0.40%

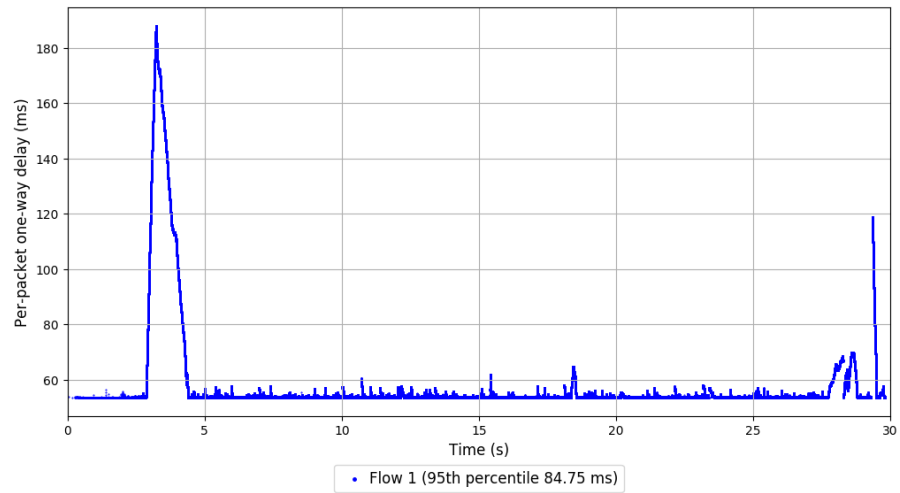
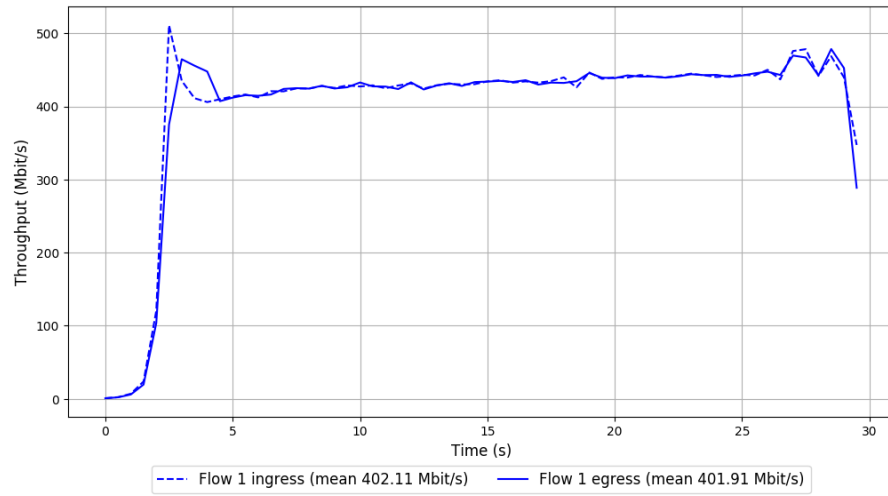
-- Flow 1:

Average throughput: 401.91 Mbit/s

95th percentile per-packet one-way delay: 84.750 ms

Loss rate: 0.40%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-03-06 03:00:16

End at: 2018-03-06 03:00:46

Below is generated by plot.py at 2018-03-06 07:45:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 395.95 Mbit/s

95th percentile per-packet one-way delay: 54.249 ms

Loss rate: 0.34%

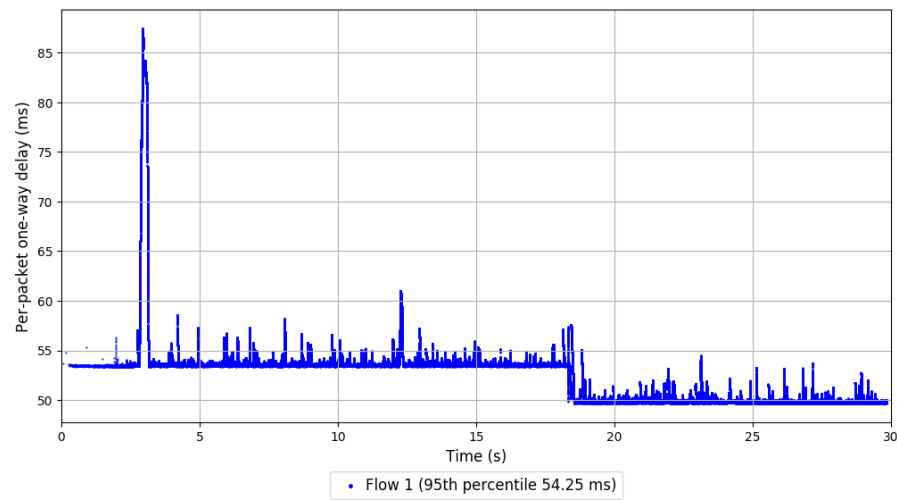
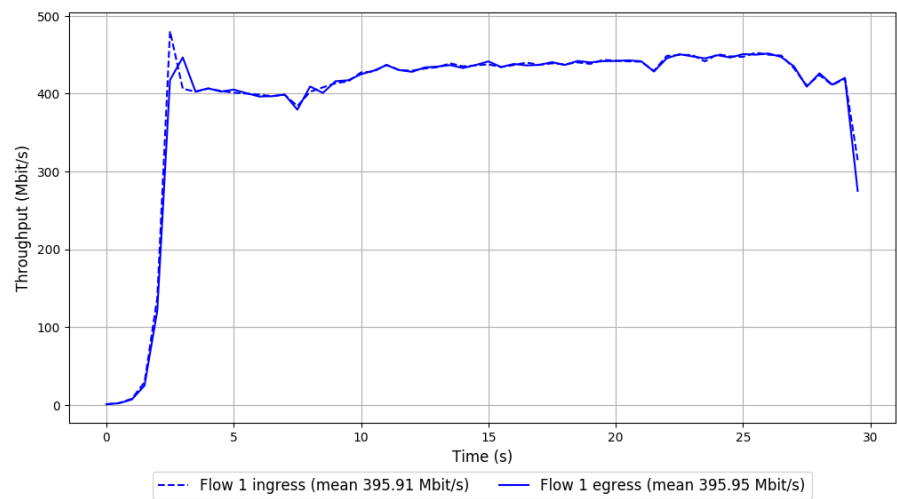
-- Flow 1:

Average throughput: 395.95 Mbit/s

95th percentile per-packet one-way delay: 54.249 ms

Loss rate: 0.34%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-03-06 03:15:00

End at: 2018-03-06 03:15:30

Below is generated by plot.py at 2018-03-06 07:45:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 397.35 Mbit/s

95th percentile per-packet one-way delay: 97.322 ms

Loss rate: 0.49%

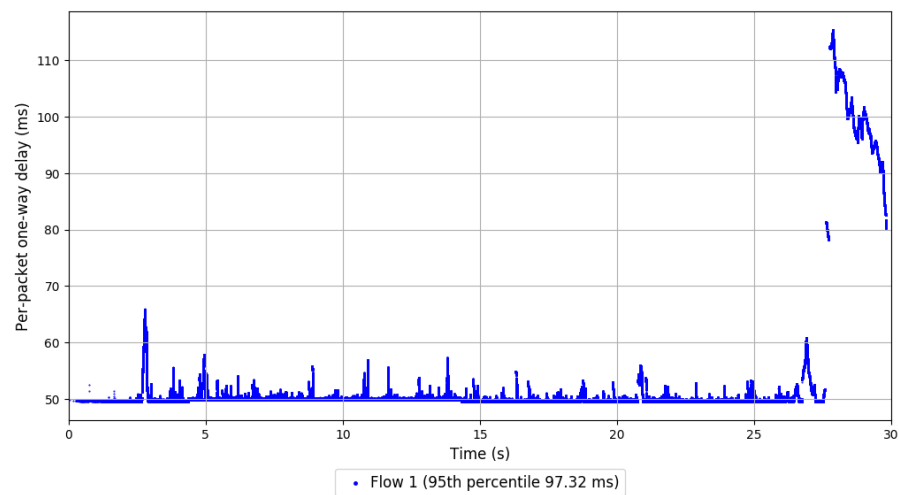
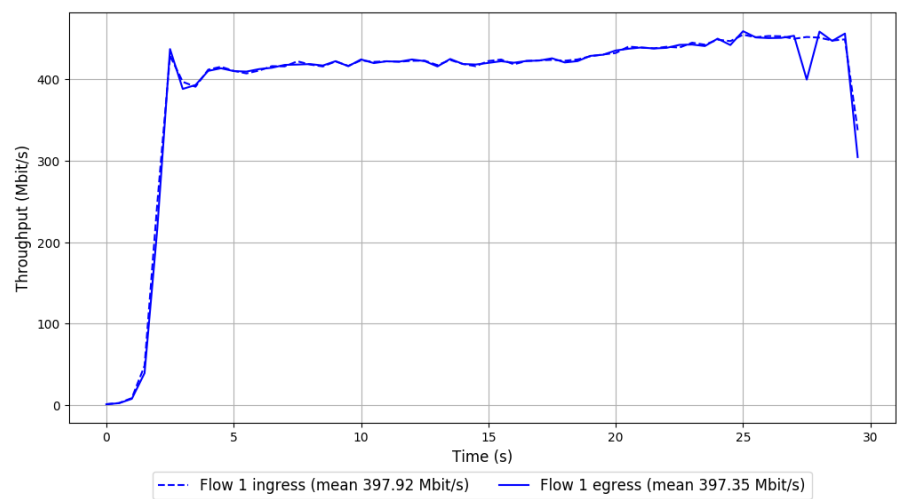
-- Flow 1:

Average throughput: 397.35 Mbit/s

95th percentile per-packet one-way delay: 97.322 ms

Loss rate: 0.49%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-03-06 03:29:32

End at: 2018-03-06 03:30:02

Below is generated by plot.py at 2018-03-06 07:46:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 390.21 Mbit/s

95th percentile per-packet one-way delay: 58.531 ms

Loss rate: 0.38%

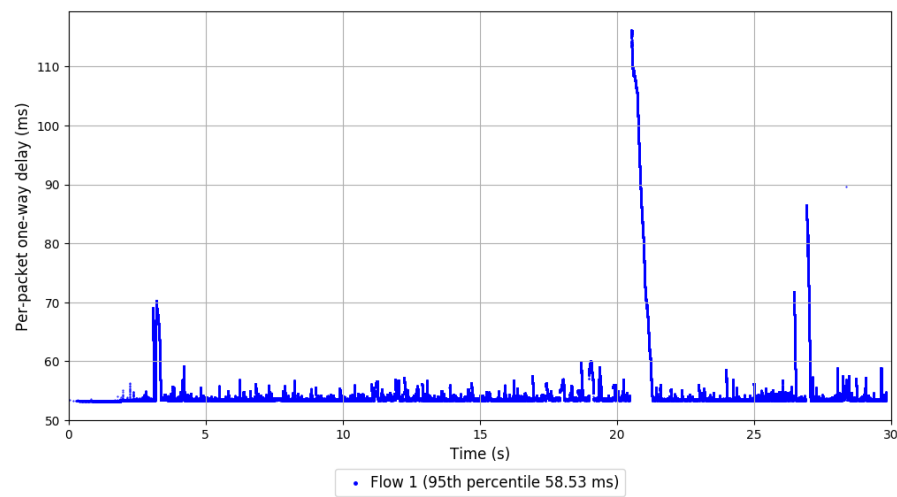
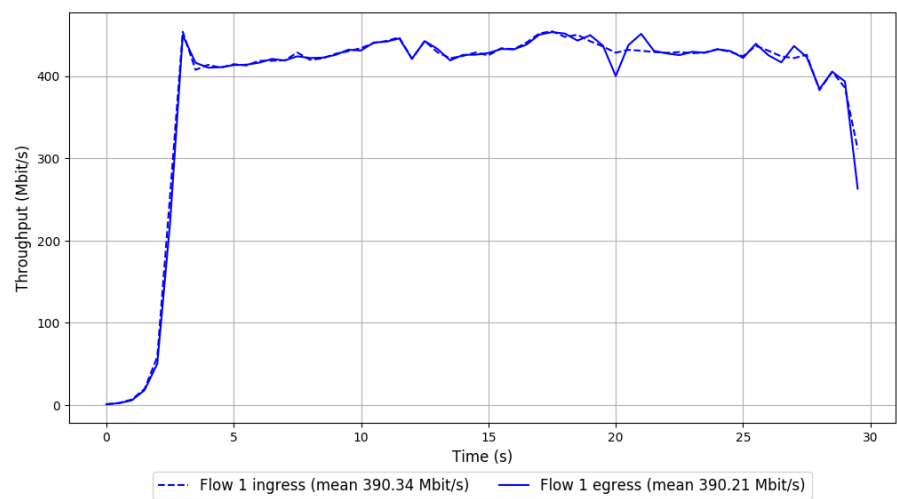
-- Flow 1:

Average throughput: 390.21 Mbit/s

95th percentile per-packet one-way delay: 58.531 ms

Loss rate: 0.38%

Run 9: Report of Vivace-LTE — Data Link



```
Run 10: Statistics of Vivace-LTE

Start at: 2018-03-06 03:43:51
End at: 2018-03-06 03:44:21

# Below is generated by plot.py at 2018-03-06 07:46:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 406.23 Mbit/s
95th percentile per-packet one-way delay: 85.168 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 406.23 Mbit/s
95th percentile per-packet one-way delay: 85.168 ms
Loss rate: 0.40%
```

Run 10: Report of Vivace-LTE — Data Link

