

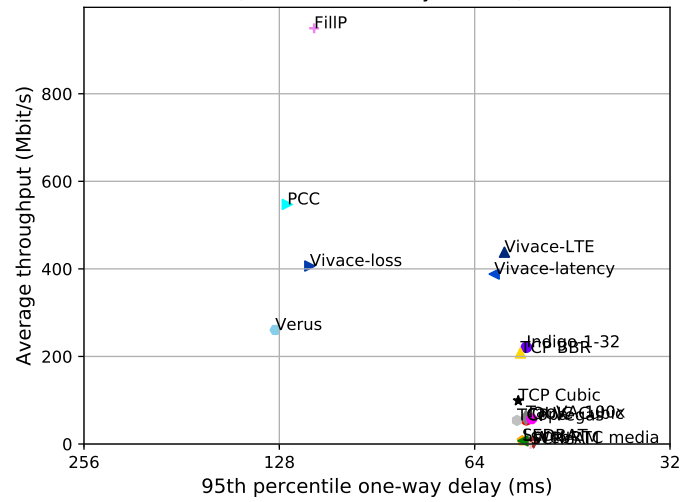
Pantheon Report

Generated at 2018-02-13 10:53:46 (UTC).
Data path: GCE Sydney Ethernet (*local*) → GCE Tokyo Ethernet (*remote*).
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**).

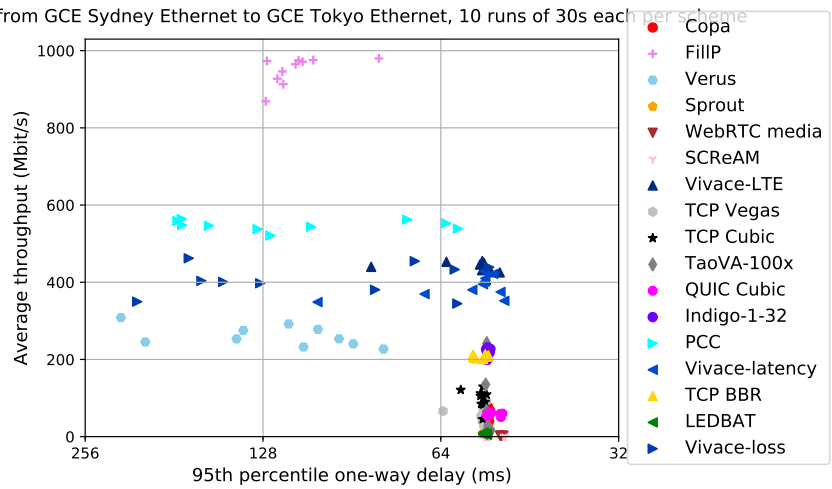
Git summary:

```
branch: master @ 2efdad57c2c56a9458b0d01ff33345e11732665
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	207.97	54.41	0.00
TCP Cubic	10	98.99	54.83	0.01
LEDBAT	10	7.22	53.92	0.05
PCC	10	547.23	124.44	0.64
QUIC Cubic	9	57.55	52.27	0.00
SCReAM	10	0.21	52.47	0.00
WebRTC media	10	2.35	51.92	0.00
Sprout	10	7.73	54.08	0.07
TaoVA-100x	9	60.52	53.35	0.00
TCP Vegas	10	53.83	55.07	0.01
Verus	10	260.50	129.90	0.23
Copa	10	55.18	53.27	0.00
FillP	10	949.54	113.13	2.43
Indigo-1-32	10	220.90	53.27	0.01
Vivace-latency	10	388.18	59.72	0.03
Vivace-loss	10	406.52	114.87	0.53
Vivace-LTE	10	438.18	57.58	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-02-13 05:39:55

End at: 2018-02-13 05:40:25

Below is generated by plot.py at 2018-02-13 09:32:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.99 Mbit/s

95th percentile per-packet one-way delay: 55.915 ms

Loss rate: 0.00%

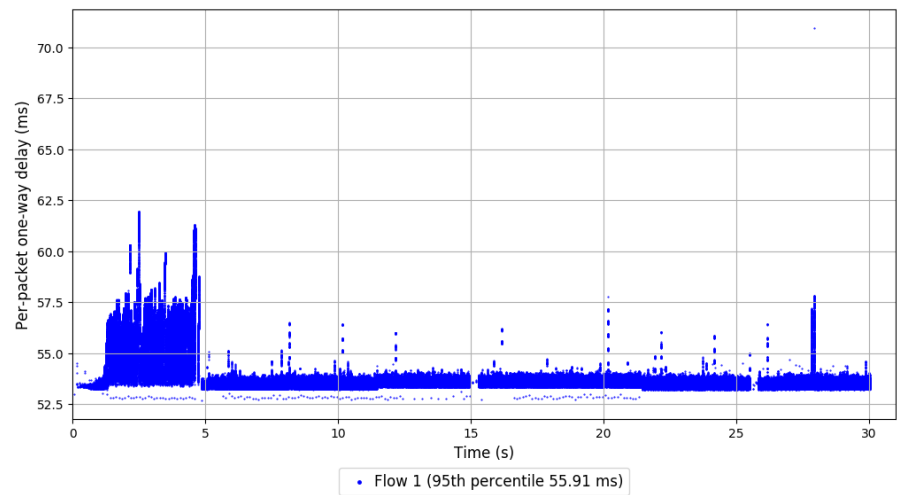
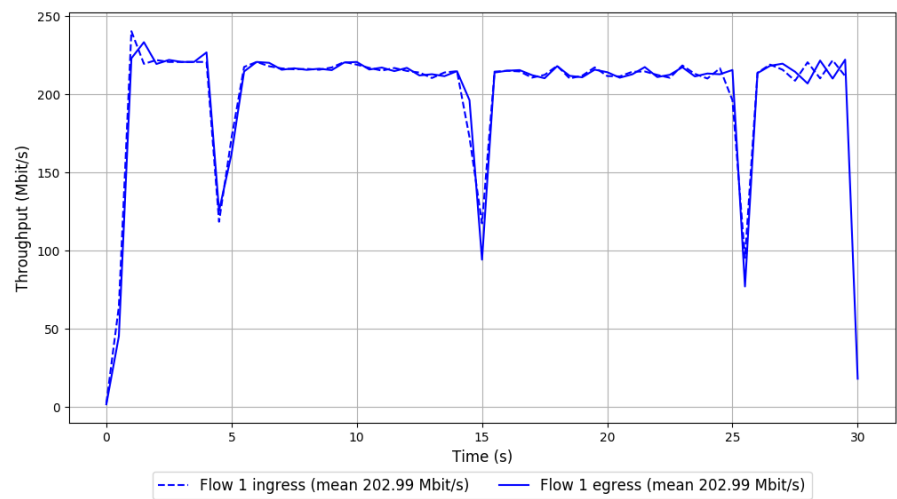
-- Flow 1:

Average throughput: 202.99 Mbit/s

95th percentile per-packet one-way delay: 55.915 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-13 05:54:25

End at: 2018-02-13 05:54:55

Below is generated by plot.py at 2018-02-13 09:32:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.41 Mbit/s

95th percentile per-packet one-way delay: 53.275 ms

Loss rate: 0.00%

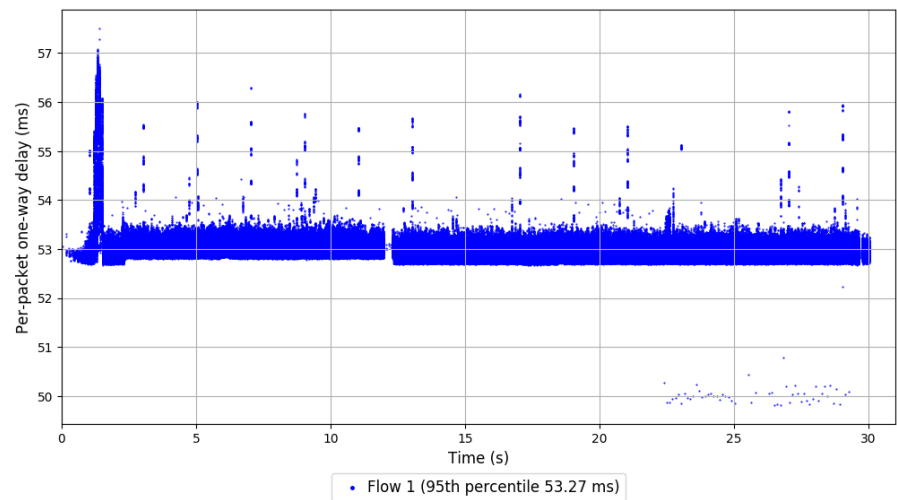
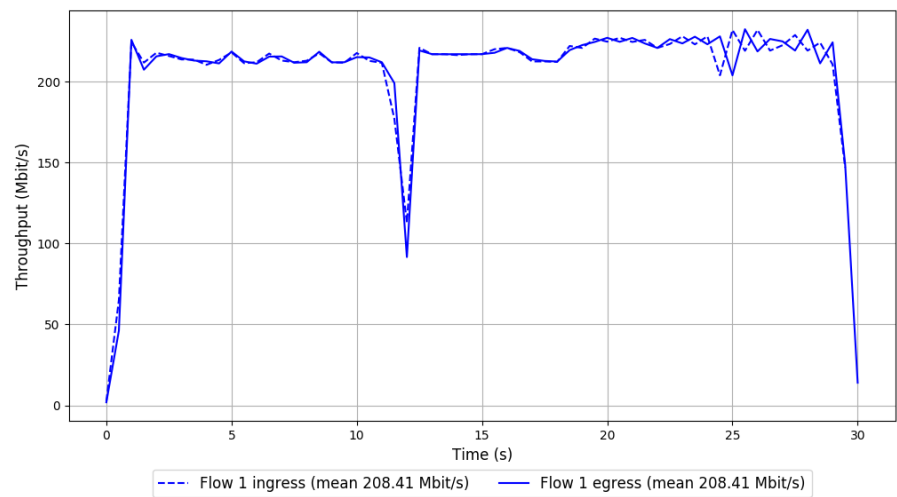
-- Flow 1:

Average throughput: 208.41 Mbit/s

95th percentile per-packet one-way delay: 53.275 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-13 06:08:48

End at: 2018-02-13 06:09:18

Below is generated by plot.py at 2018-02-13 09:32:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.89 Mbit/s

95th percentile per-packet one-way delay: 53.169 ms

Loss rate: 0.01%

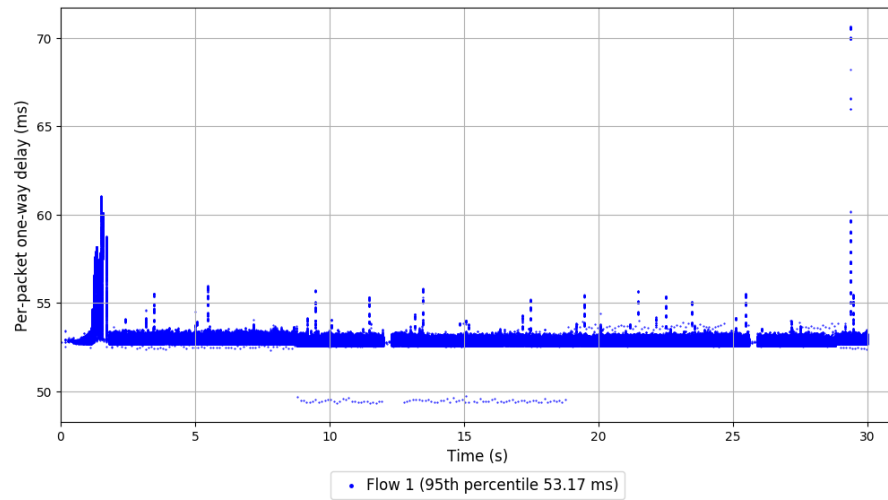
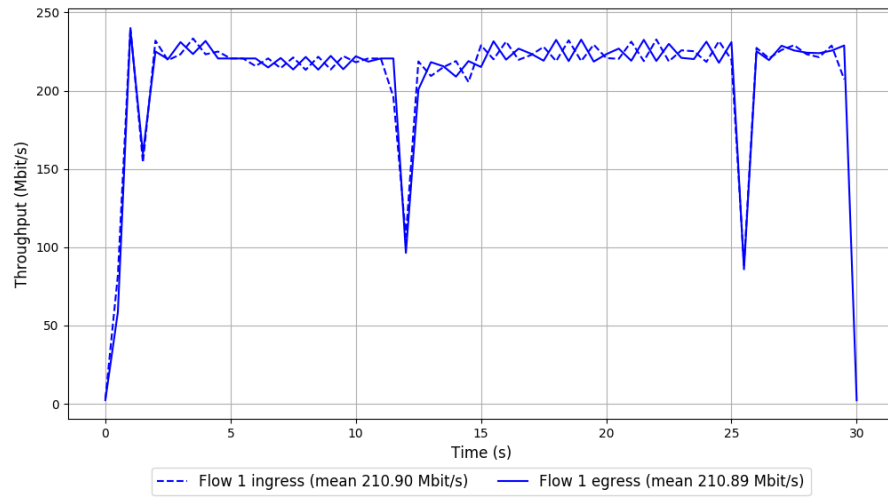
-- Flow 1:

Average throughput: 210.89 Mbit/s

95th percentile per-packet one-way delay: 53.169 ms

Loss rate: 0.01%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-13 06:23:07

End at: 2018-02-13 06:23:37

Below is generated by plot.py at 2018-02-13 09:32:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.55 Mbit/s

95th percentile per-packet one-way delay: 53.227 ms

Loss rate: 0.01%

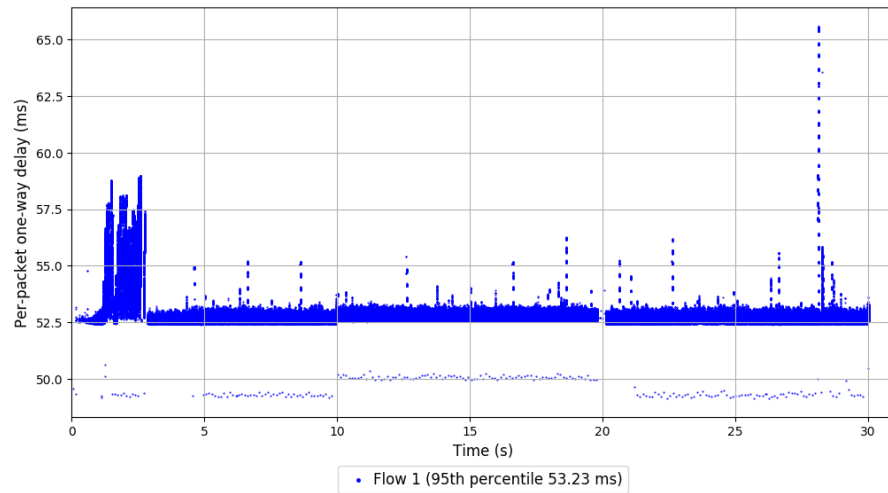
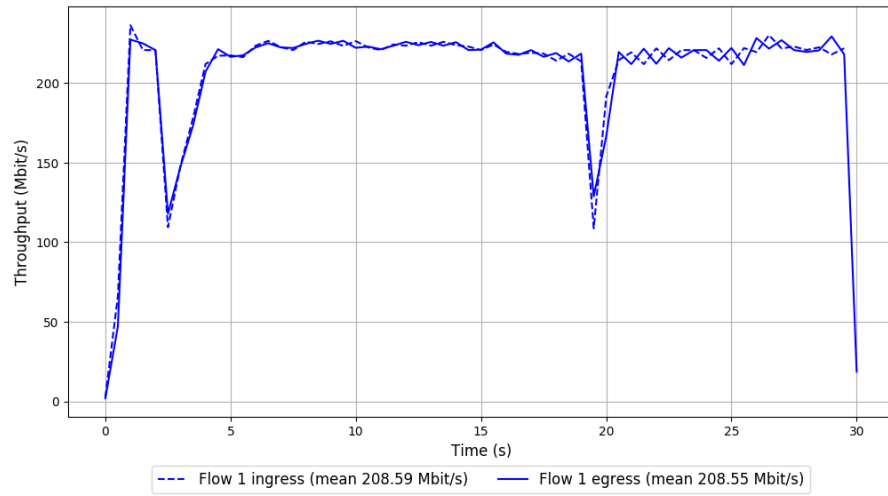
-- Flow 1:

Average throughput: 208.55 Mbit/s

95th percentile per-packet one-way delay: 53.227 ms

Loss rate: 0.01%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-13 06:37:25

End at: 2018-02-13 06:37:55

Below is generated by plot.py at 2018-02-13 09:32:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.64 Mbit/s

95th percentile per-packet one-way delay: 53.679 ms

Loss rate: 0.00%

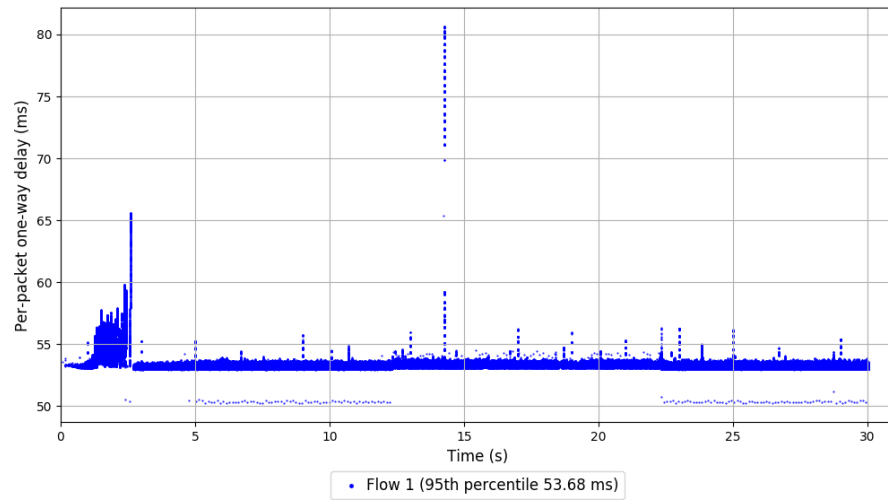
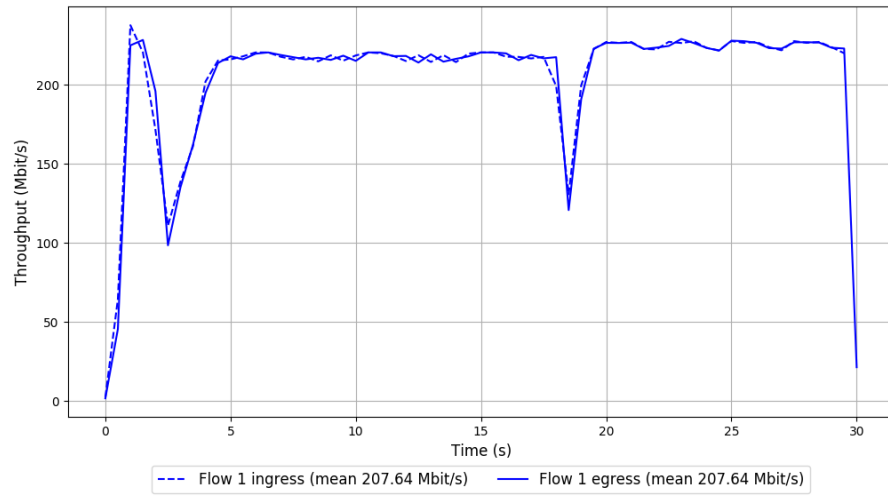
-- Flow 1:

Average throughput: 207.64 Mbit/s

95th percentile per-packet one-way delay: 53.679 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-13 06:51:44

End at: 2018-02-13 06:52:14

Below is generated by plot.py at 2018-02-13 09:32:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.06 Mbit/s

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

Loss rate: 0.00%

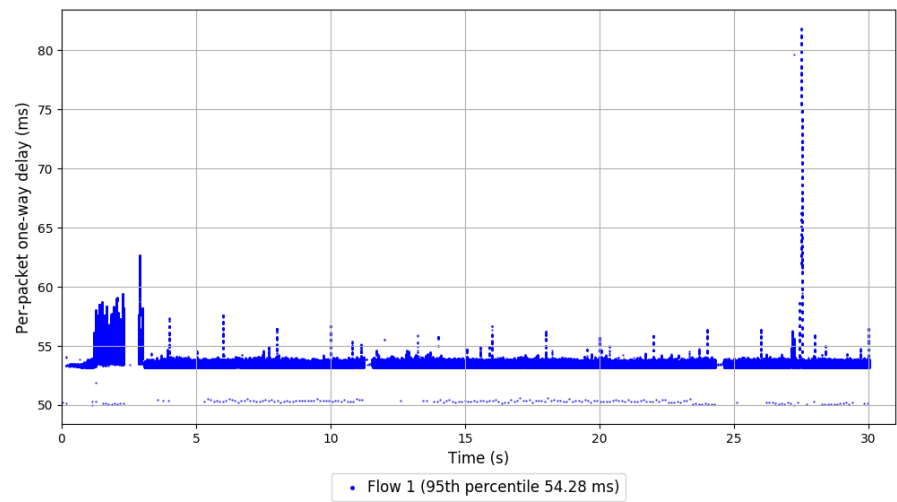
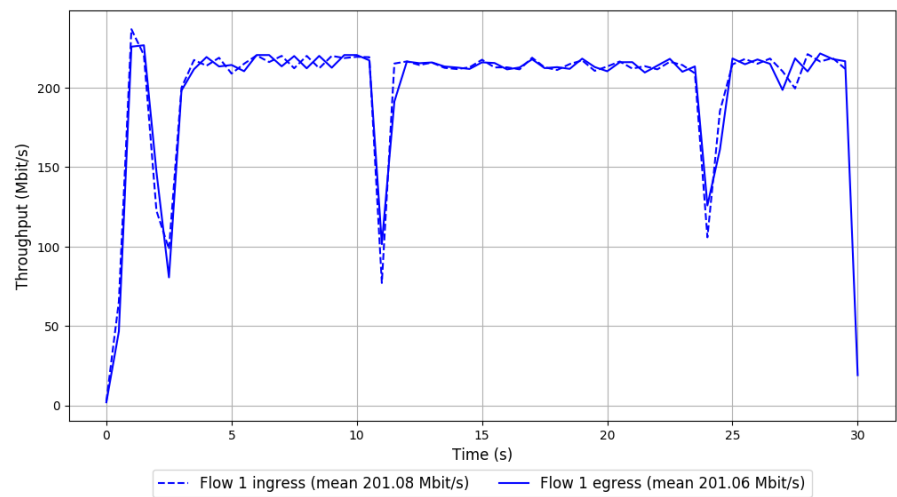
-- Flow 1:

Average throughput: 201.06 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-13 07:06:05

End at: 2018-02-13 07:06:35

Below is generated by plot.py at 2018-02-13 09:32:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.34 Mbit/s

95th percentile per-packet one-way delay: 53.834 ms

Loss rate: 0.00%

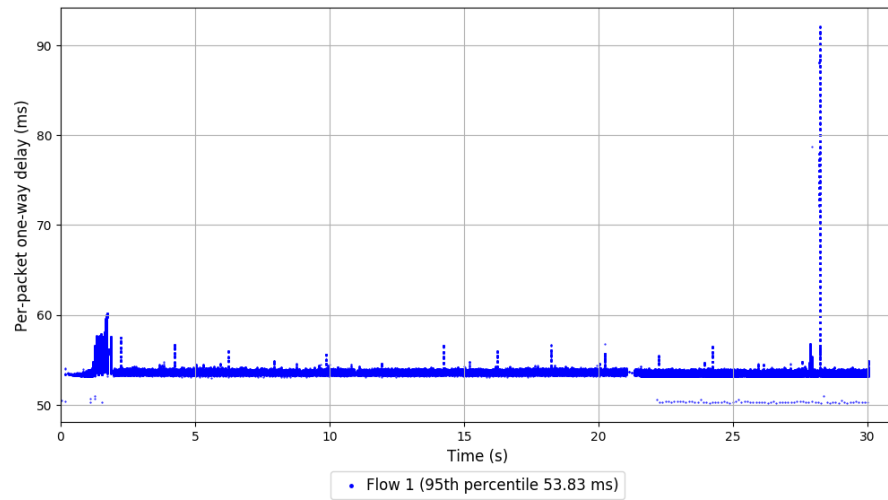
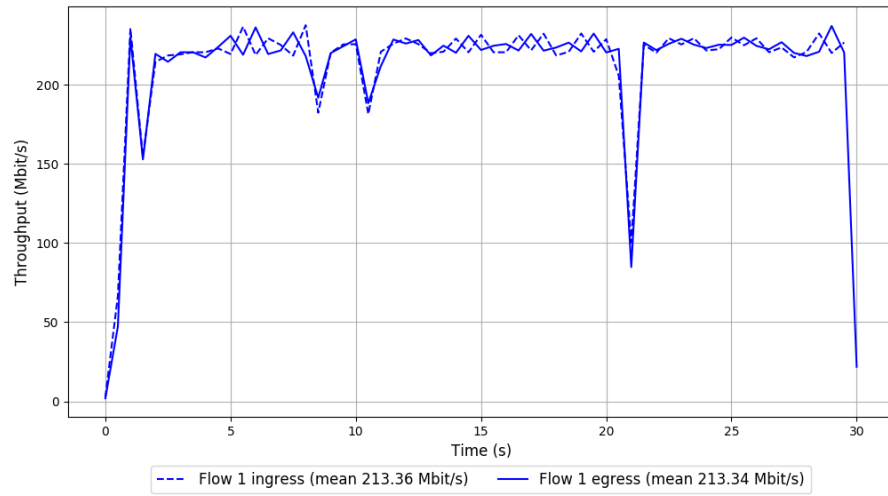
-- Flow 1:

Average throughput: 213.34 Mbit/s

95th percentile per-packet one-way delay: 53.834 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-13 07:20:36

End at: 2018-02-13 07:21:06

Below is generated by plot.py at 2018-02-13 09:32:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.47 Mbit/s

95th percentile per-packet one-way delay: 56.451 ms

Loss rate: 0.00%

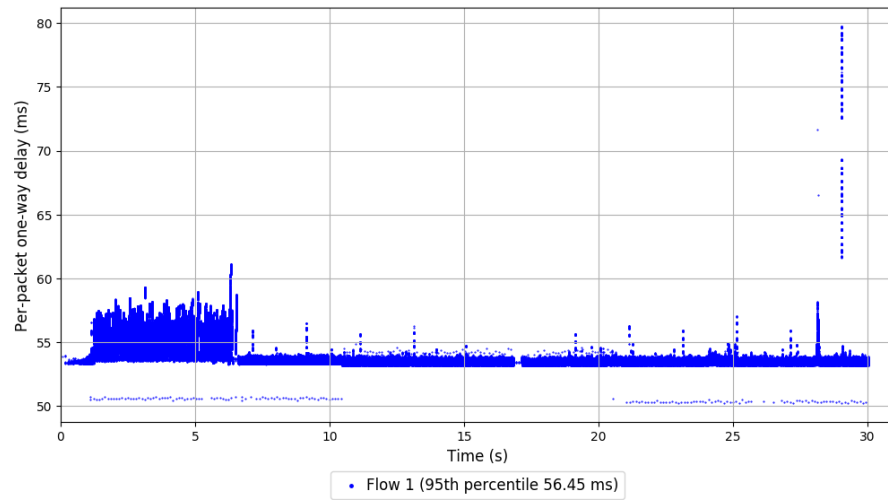
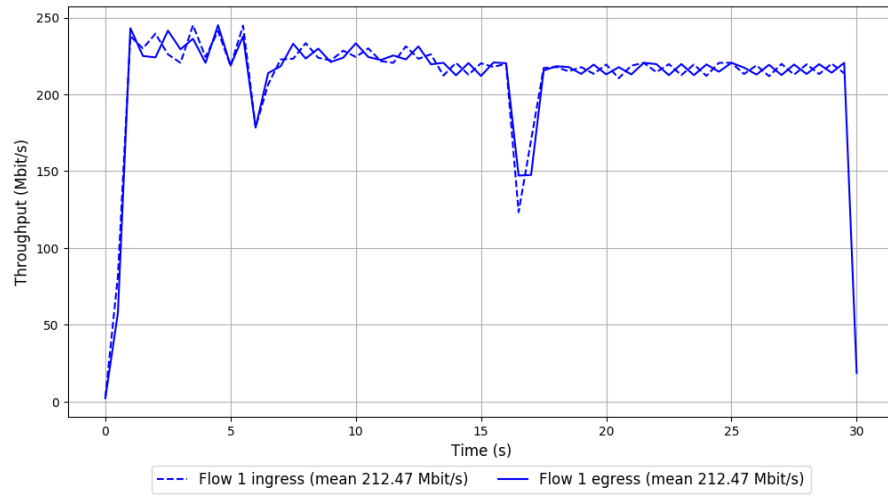
-- Flow 1:

Average throughput: 212.47 Mbit/s

95th percentile per-packet one-way delay: 56.451 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-13 07:34:57

End at: 2018-02-13 07:35:27

Below is generated by plot.py at 2018-02-13 09:35:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.59 Mbit/s

95th percentile per-packet one-way delay: 53.859 ms

Loss rate: 0.00%

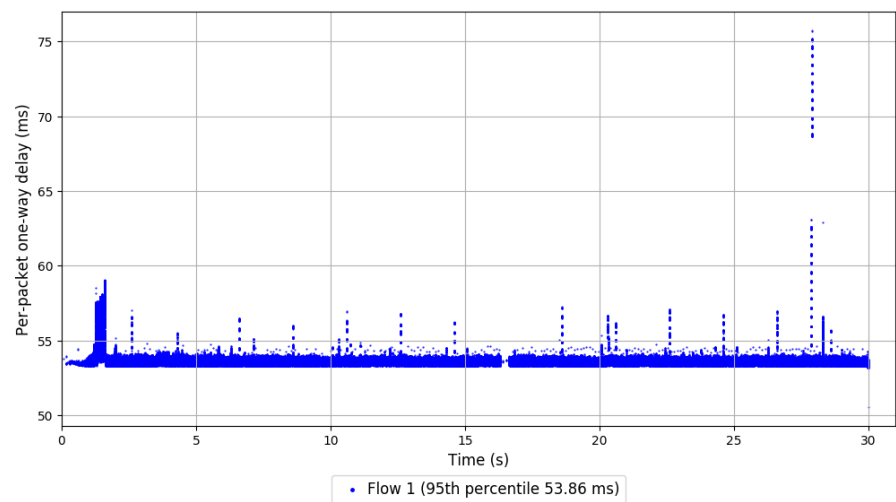
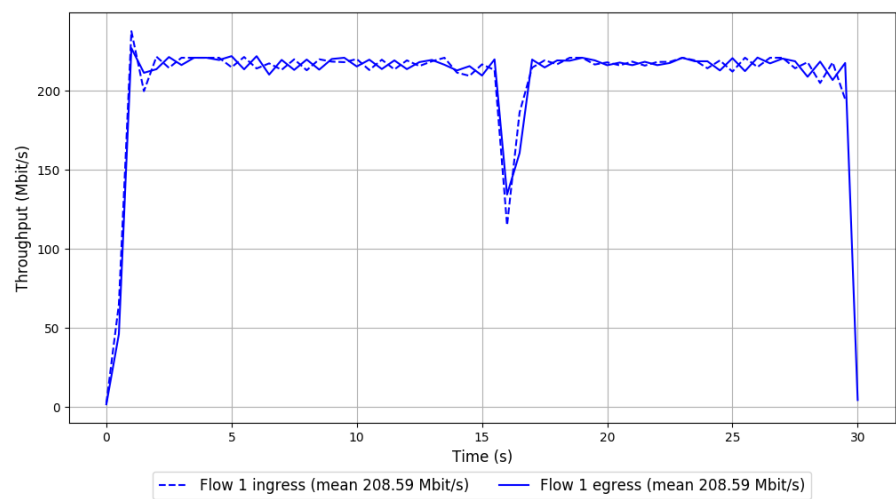
-- Flow 1:

Average throughput: 208.59 Mbit/s

95th percentile per-packet one-way delay: 53.859 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-13 07:49:34

End at: 2018-02-13 07:50:04

Below is generated by plot.py at 2018-02-13 09:35:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.76 Mbit/s

95th percentile per-packet one-way delay: 56.433 ms

Loss rate: 0.00%

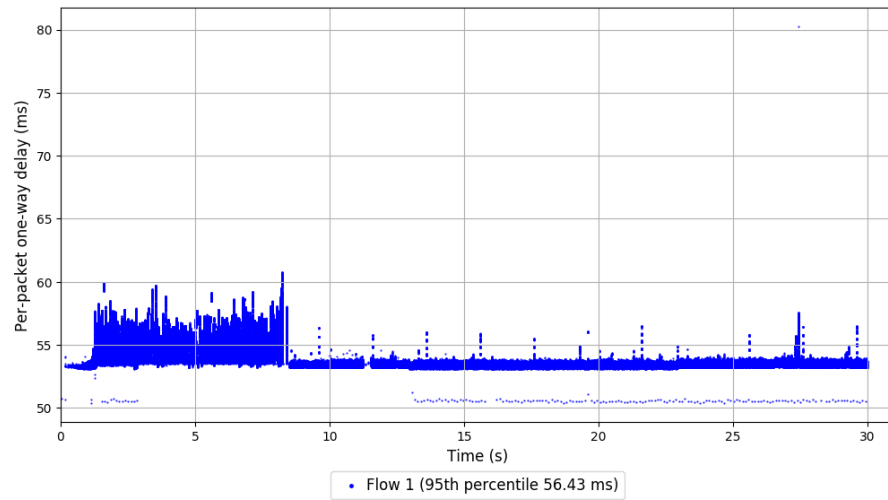
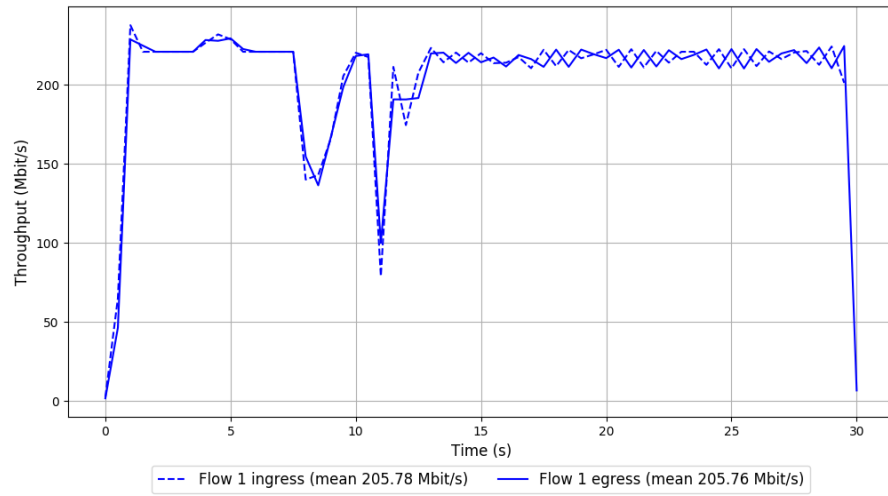
-- Flow 1:

Average throughput: 205.76 Mbit/s

95th percentile per-packet one-way delay: 56.433 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-13 05:41:19

End at: 2018-02-13 05:41:49

Below is generated by plot.py at 2018-02-13 09:35:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 121.25 Mbit/s

95th percentile per-packet one-way delay: 59.218 ms

Loss rate: 0.03%

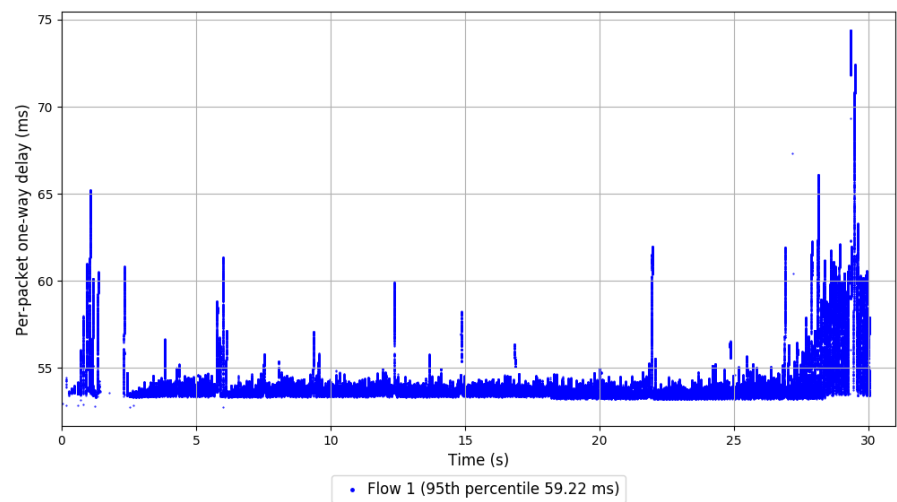
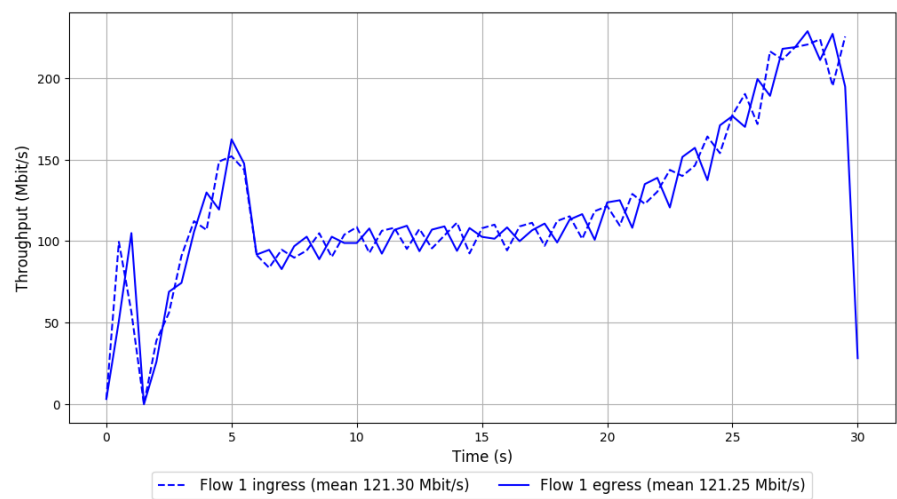
-- Flow 1:

Average throughput: 121.25 Mbit/s

95th percentile per-packet one-way delay: 59.218 ms

Loss rate: 0.03%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-13 05:55:49

End at: 2018-02-13 05:56:19

Below is generated by plot.py at 2018-02-13 09:35:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 109.21 Mbit/s

95th percentile per-packet one-way delay: 53.549 ms

Loss rate: 0.00%

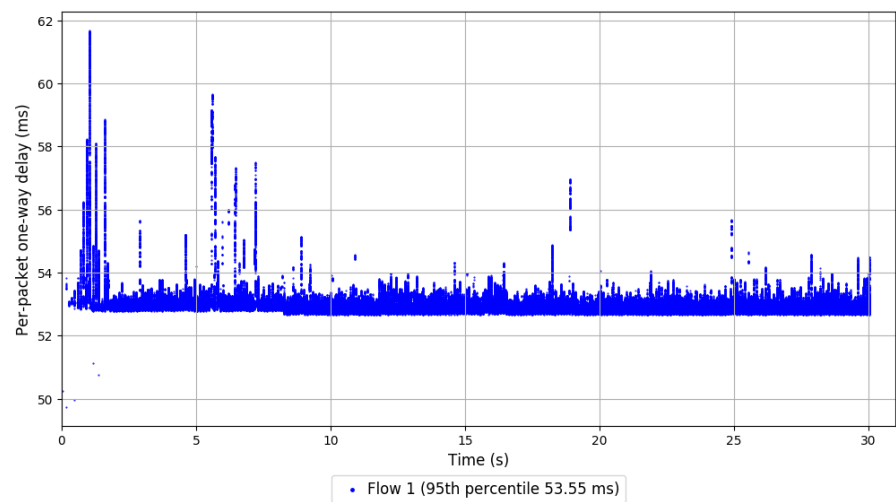
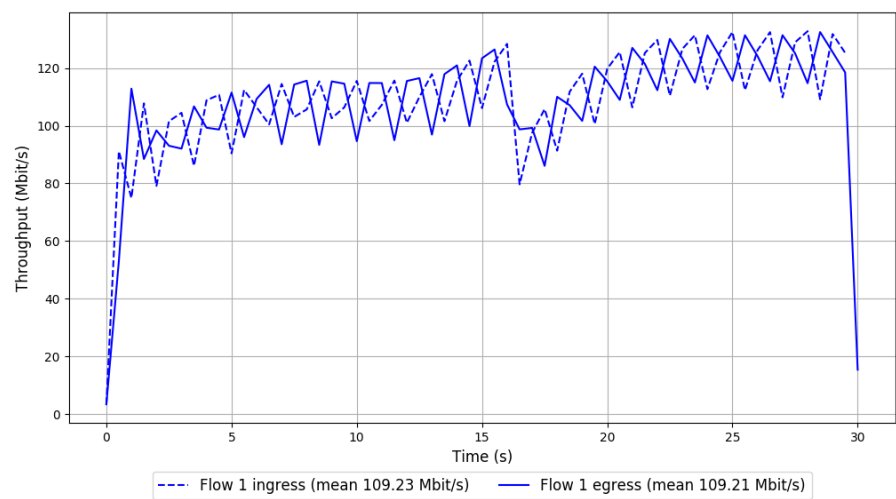
-- Flow 1:

Average throughput: 109.21 Mbit/s

95th percentile per-packet one-way delay: 53.549 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-13 06:10:12

End at: 2018-02-13 06:10:42

Below is generated by plot.py at 2018-02-13 09:35:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.04 Mbit/s

95th percentile per-packet one-way delay: 53.862 ms

Loss rate: 0.00%

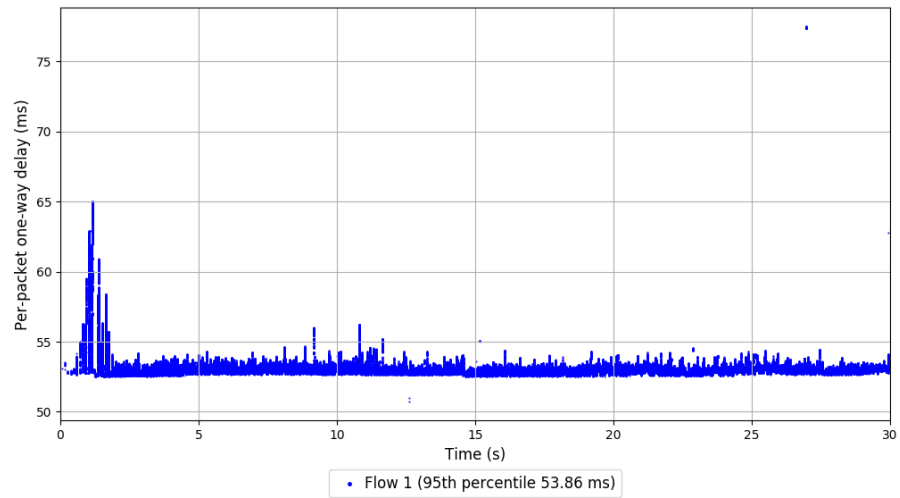
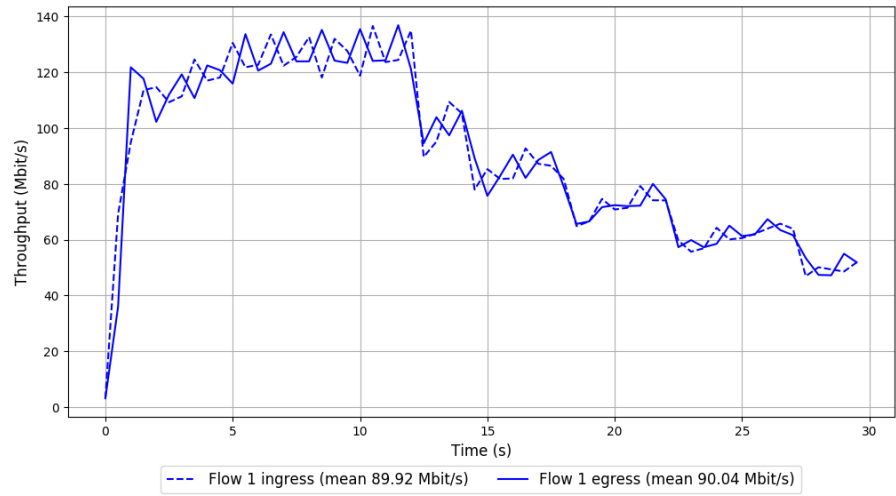
-- Flow 1:

Average throughput: 90.04 Mbit/s

95th percentile per-packet one-way delay: 53.862 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-13 06:24:31

End at: 2018-02-13 06:25:01

Below is generated by plot.py at 2018-02-13 09:35:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.16 Mbit/s

95th percentile per-packet one-way delay: 54.207 ms

Loss rate: 0.04%

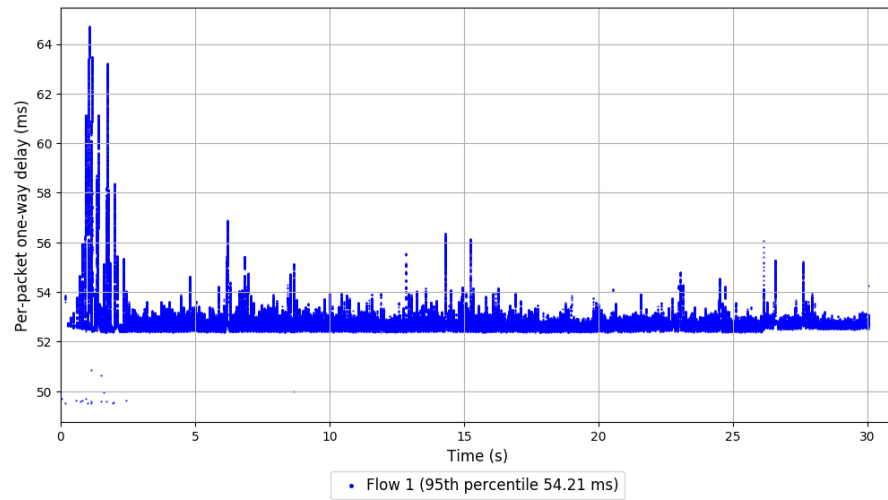
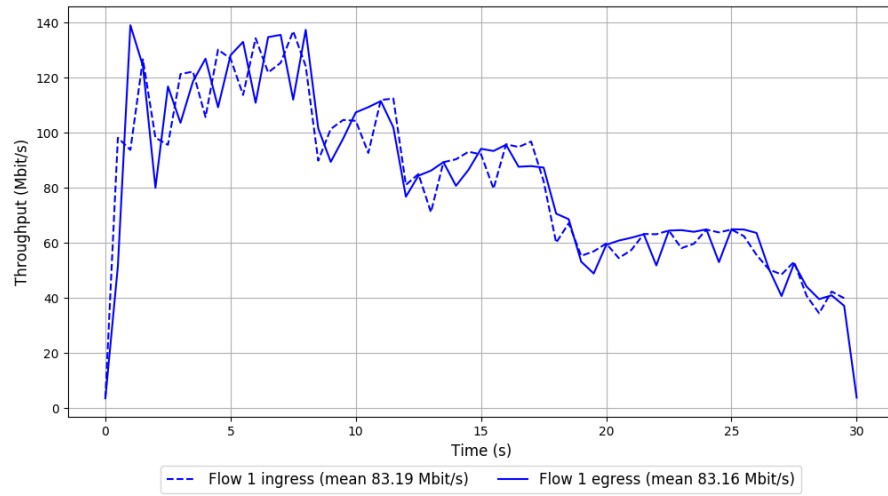
-- Flow 1:

Average throughput: 83.16 Mbit/s

95th percentile per-packet one-way delay: 54.207 ms

Loss rate: 0.04%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-13 06:38:49

End at: 2018-02-13 06:39:19

Below is generated by plot.py at 2018-02-13 09:35:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.37 Mbit/s

95th percentile per-packet one-way delay: 54.355 ms

Loss rate: 0.01%

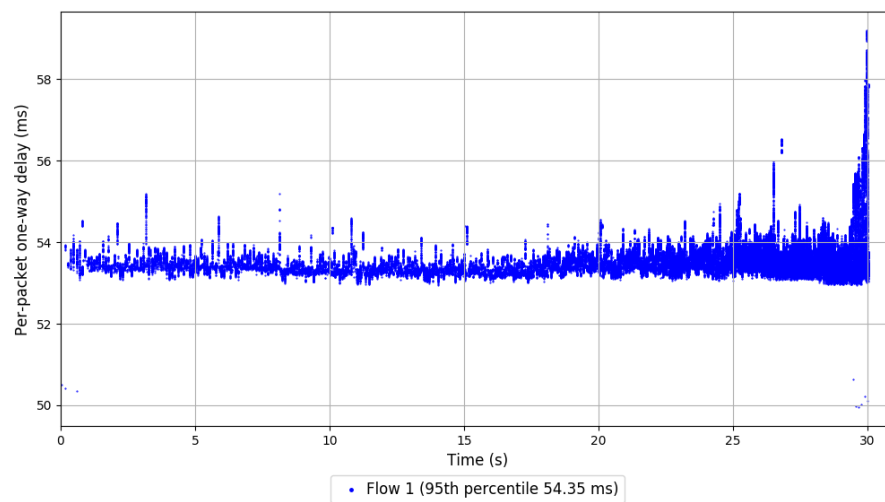
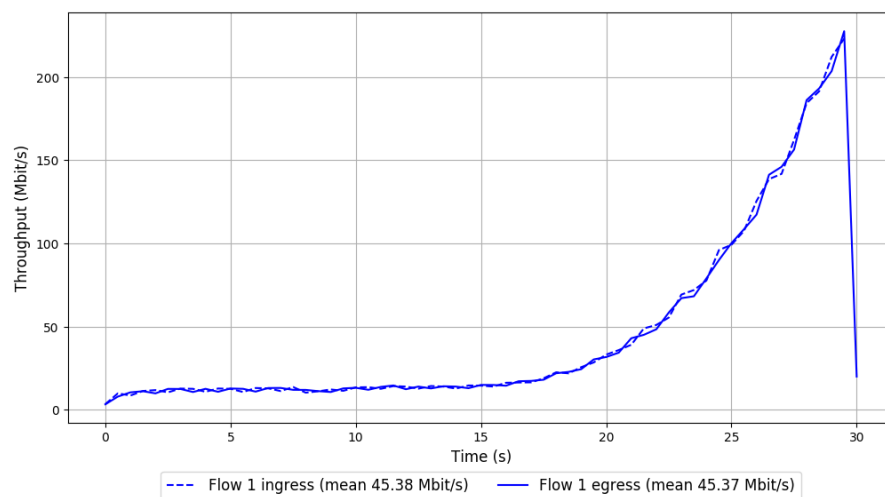
-- Flow 1:

Average throughput: 45.37 Mbit/s

95th percentile per-packet one-way delay: 54.355 ms

Loss rate: 0.01%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-13 06:53:08

End at: 2018-02-13 06:53:38

Below is generated by plot.py at 2018-02-13 09:35:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 129.52 Mbit/s

95th percentile per-packet one-way delay: 54.290 ms

Loss rate: 0.04%

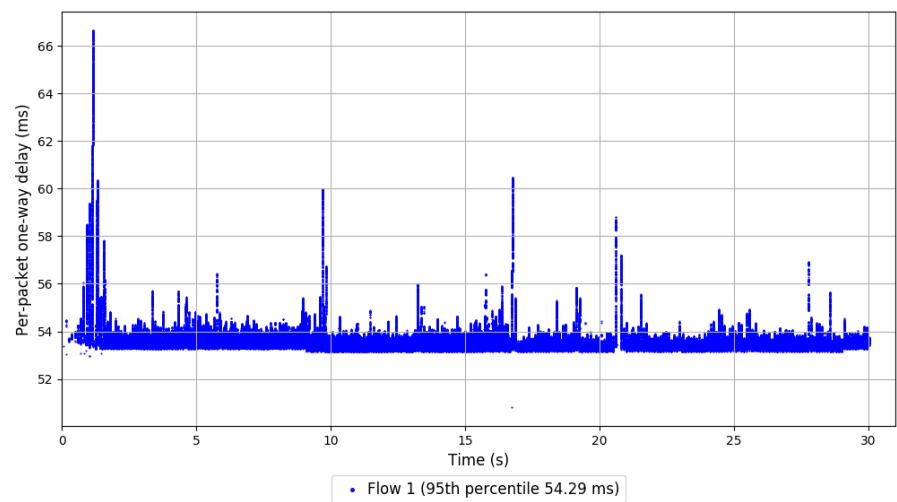
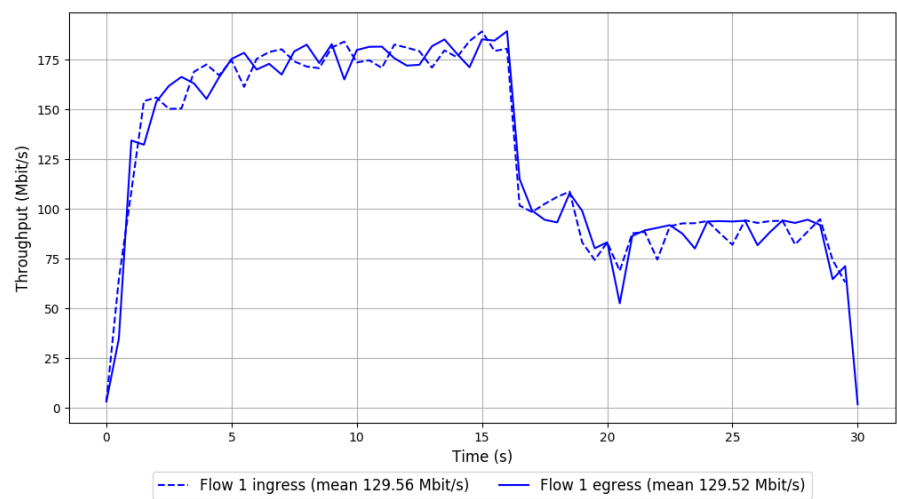
-- Flow 1:

Average throughput: 129.52 Mbit/s

95th percentile per-packet one-way delay: 54.290 ms

Loss rate: 0.04%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-13 07:07:29

End at: 2018-02-13 07:07:59

Below is generated by plot.py at 2018-02-13 09:35:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 108.58 Mbit/s

95th percentile per-packet one-way delay: 54.487 ms

Loss rate: 0.00%

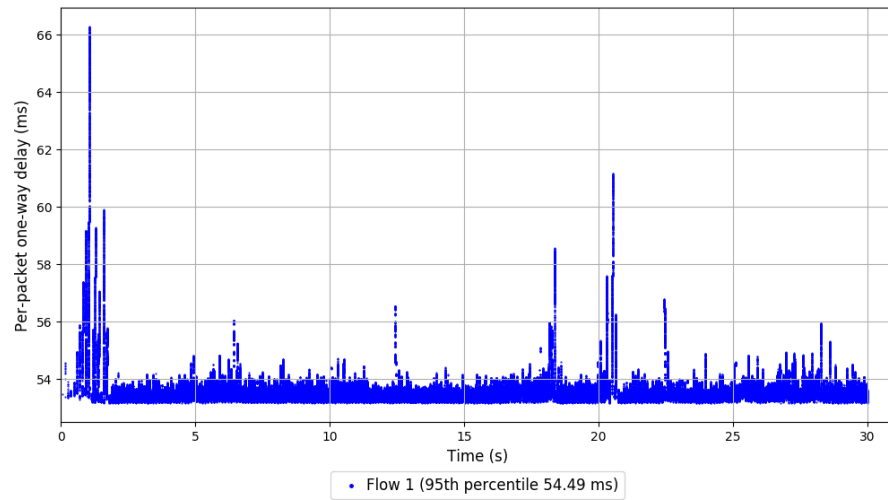
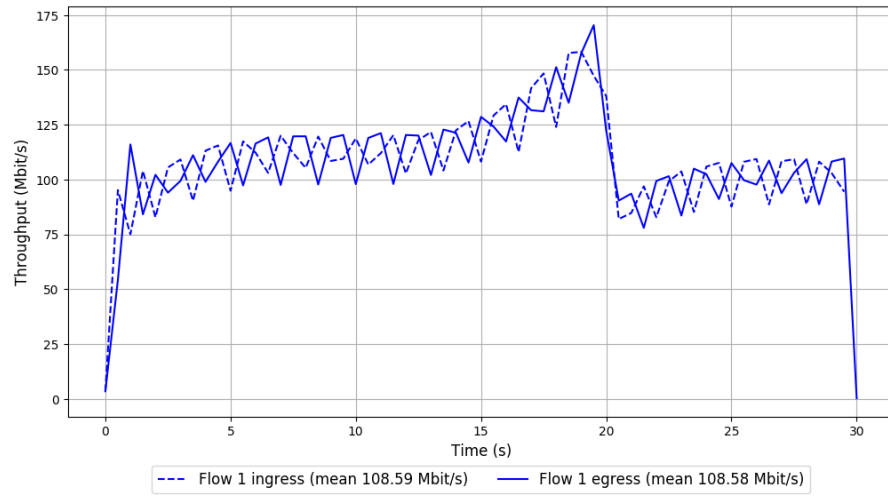
-- Flow 1:

Average throughput: 108.58 Mbit/s

95th percentile per-packet one-way delay: 54.487 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-13 07:22:01

End at: 2018-02-13 07:22:31

Below is generated by plot.py at 2018-02-13 09:35:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 105.72 Mbit/s

95th percentile per-packet one-way delay: 54.820 ms

Loss rate: 0.01%

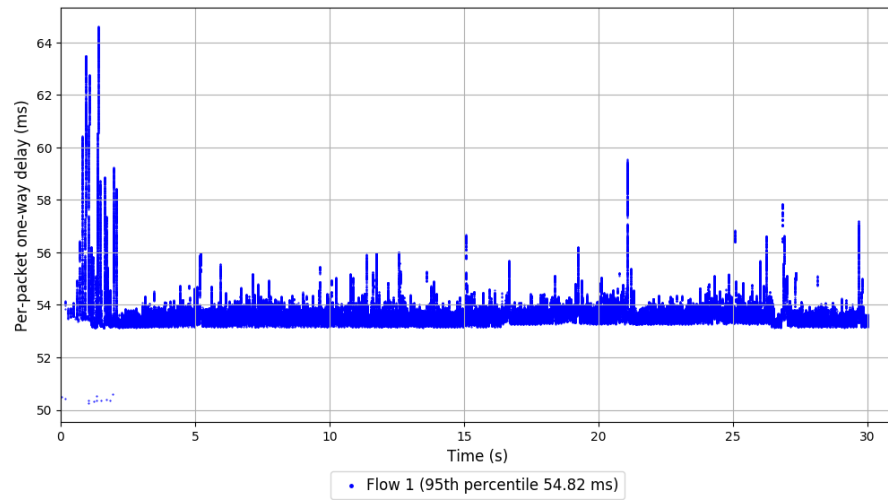
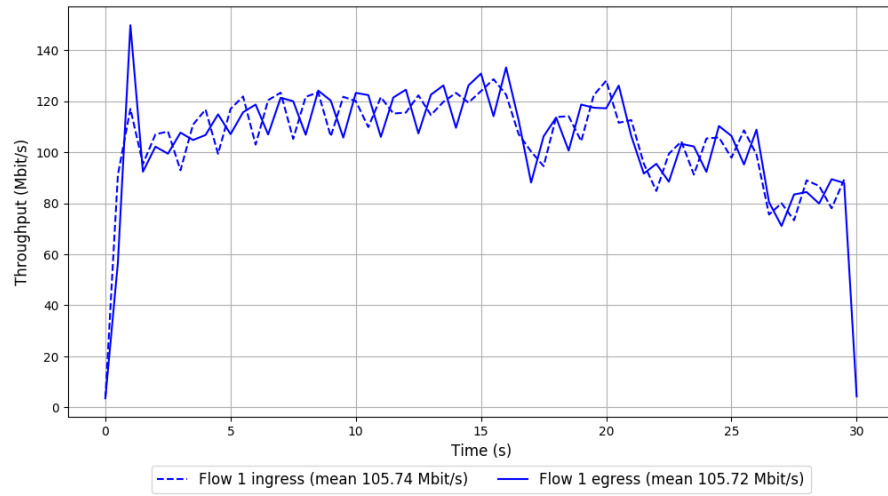
-- Flow 1:

Average throughput: 105.72 Mbit/s

95th percentile per-packet one-way delay: 54.820 ms

Loss rate: 0.01%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-13 07:36:23

End at: 2018-02-13 07:36:53

Below is generated by plot.py at 2018-02-13 09:35:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.05 Mbit/s

95th percentile per-packet one-way delay: 54.663 ms

Loss rate: 0.00%

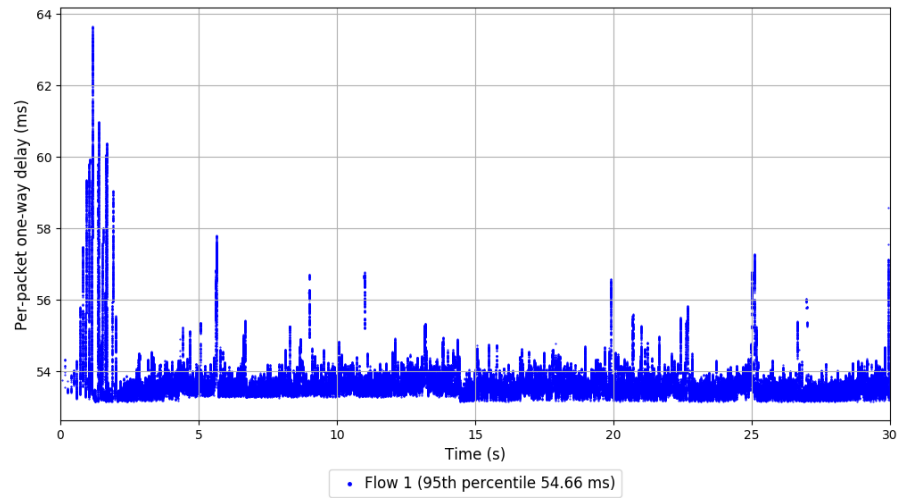
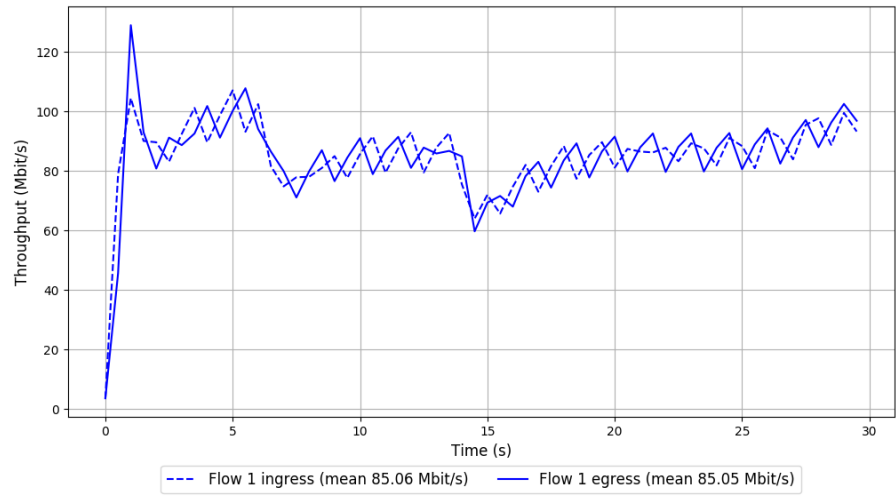
-- Flow 1:

Average throughput: 85.05 Mbit/s

95th percentile per-packet one-way delay: 54.663 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-13 07:50:58

End at: 2018-02-13 07:51:28

Below is generated by plot.py at 2018-02-13 09:36:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 112.00 Mbit/s

95th percentile per-packet one-way delay: 54.817 ms

Loss rate: 0.00%

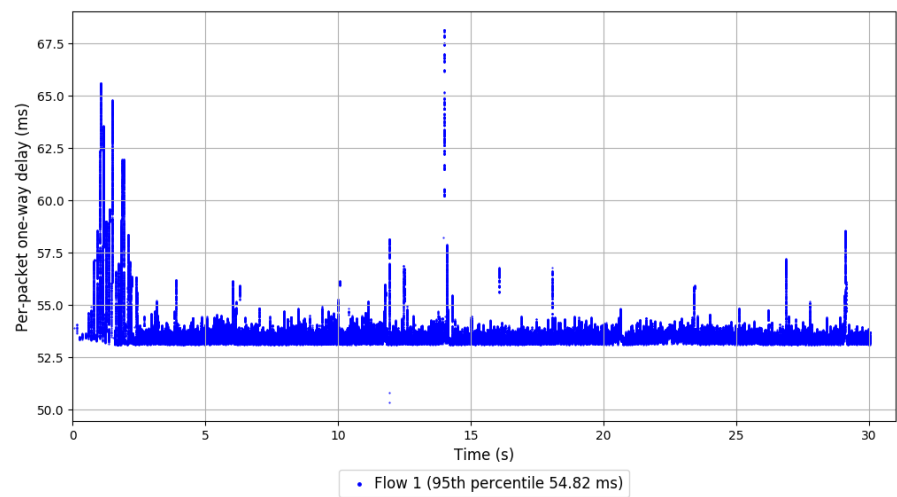
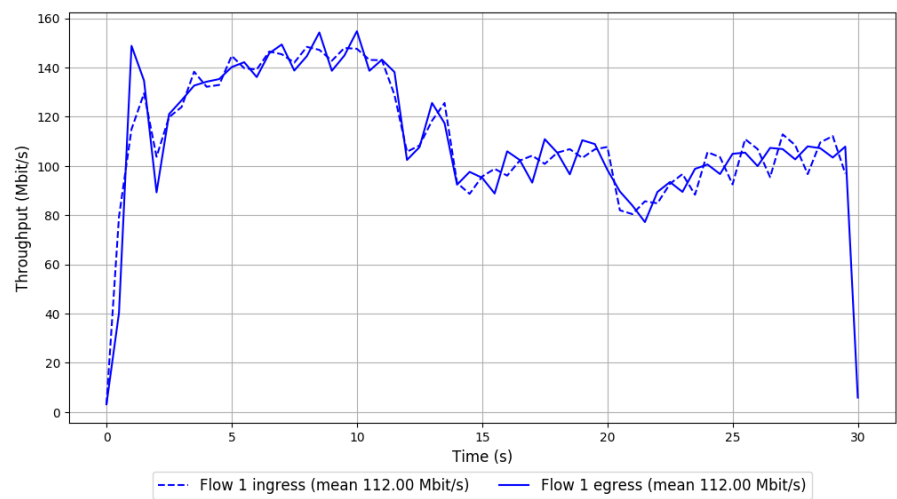
-- Flow 1:

Average throughput: 112.00 Mbit/s

95th percentile per-packet one-way delay: 54.817 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

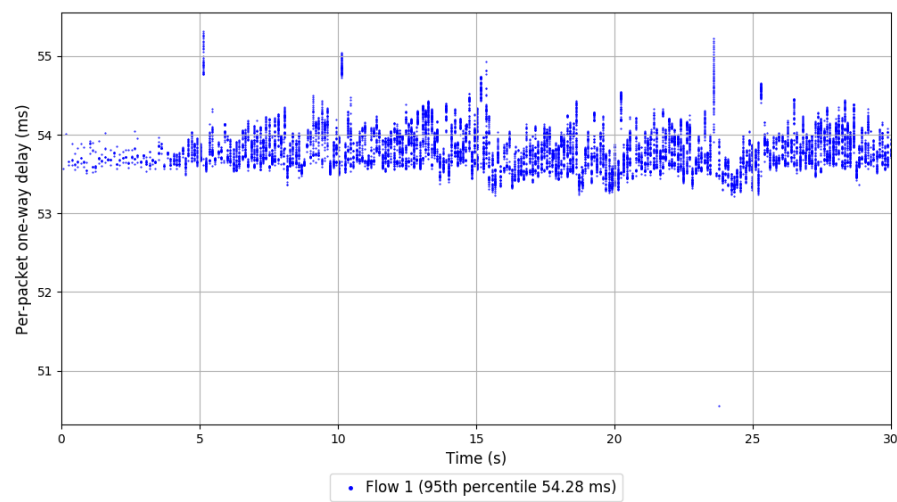
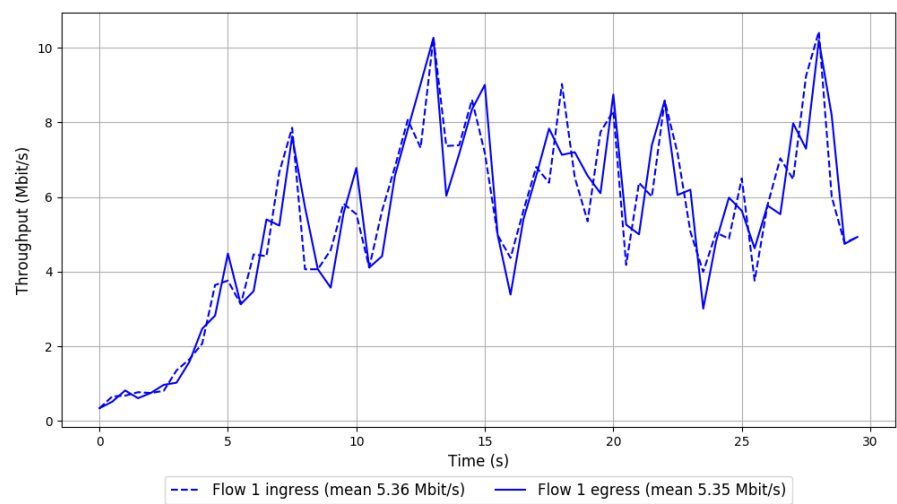


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-13 05:40:42
End at: 2018-02-13 05:41:12

# Below is generated by plot.py at 2018-02-13 09:36:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.35 Mbit/s
95th percentile per-packet one-way delay: 54.276 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 5.35 Mbit/s
95th percentile per-packet one-way delay: 54.276 ms
Loss rate: 0.12%
```


Run 1: Report of LEDBAT — Data Link

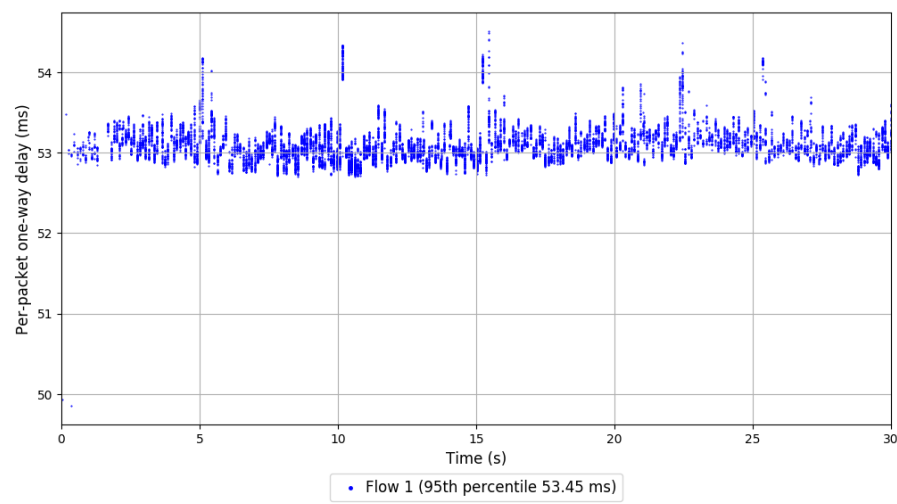
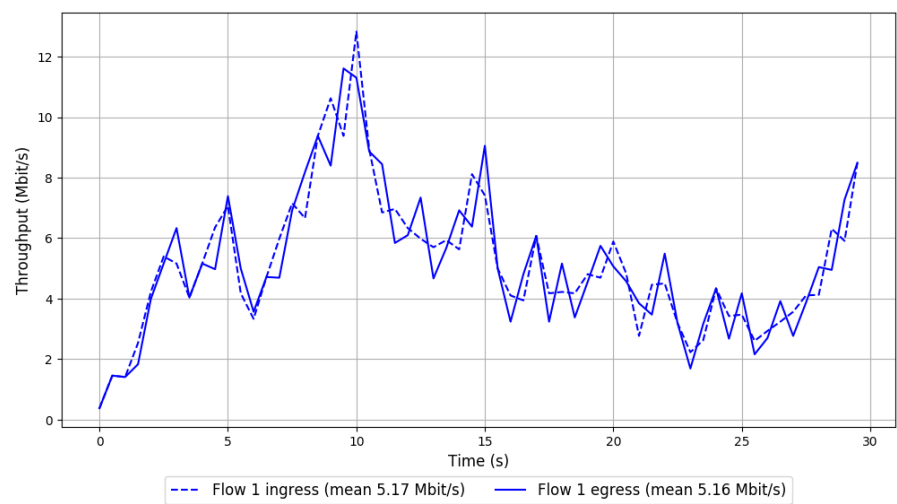


```
Run 2: Statistics of LEDBAT

Start at: 2018-02-13 05:55:12
End at: 2018-02-13 05:55:42

# Below is generated by plot.py at 2018-02-13 09:36:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.16 Mbit/s
95th percentile per-packet one-way delay: 53.450 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 5.16 Mbit/s
95th percentile per-packet one-way delay: 53.450 ms
Loss rate: 0.08%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-13 06:09:35

End at: 2018-02-13 06:10:05

Below is generated by plot.py at 2018-02-13 09:36:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.51 Mbit/s

95th percentile per-packet one-way delay: 53.512 ms

Loss rate: 0.07%

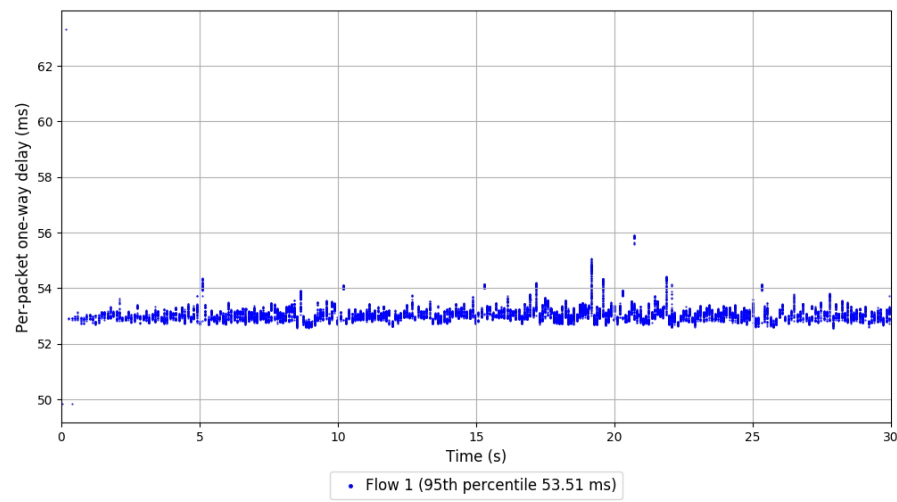
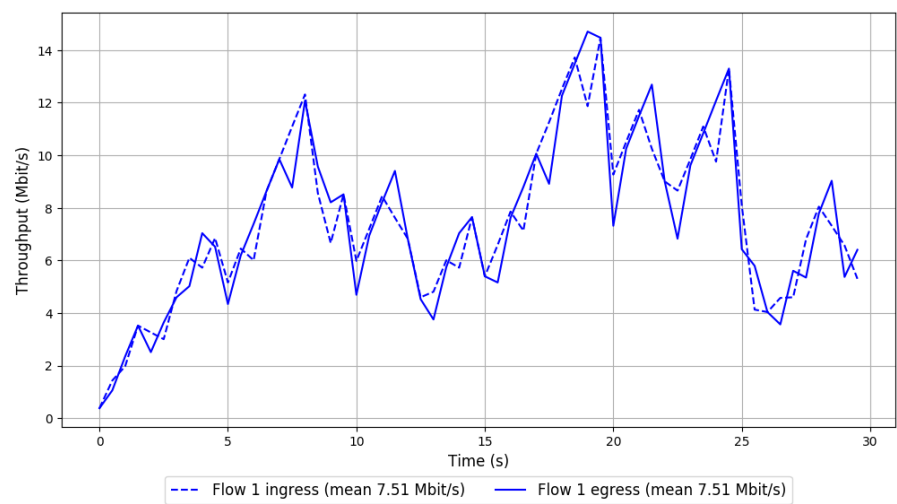
-- Flow 1:

Average throughput: 7.51 Mbit/s

95th percentile per-packet one-way delay: 53.512 ms

Loss rate: 0.07%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-13 06:23:54

End at: 2018-02-13 06:24:24

Below is generated by plot.py at 2018-02-13 09:36:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.01 Mbit/s

95th percentile per-packet one-way delay: 53.472 ms

Loss rate: 0.08%

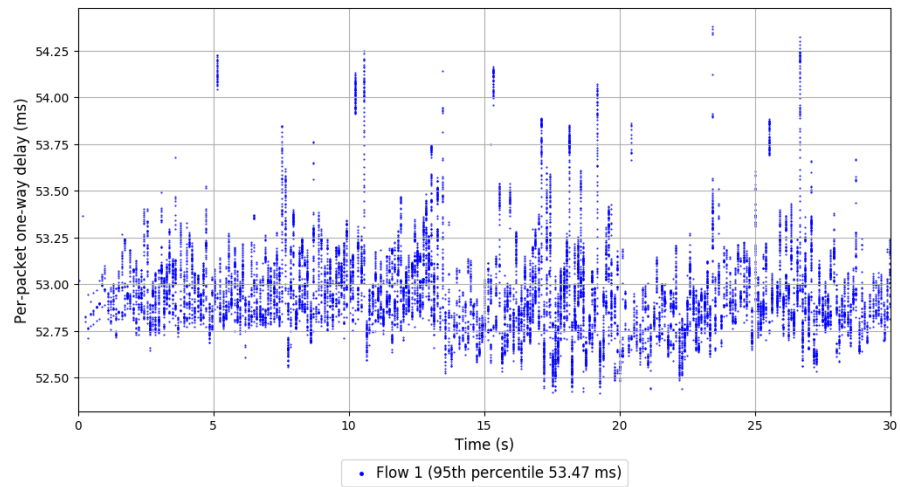
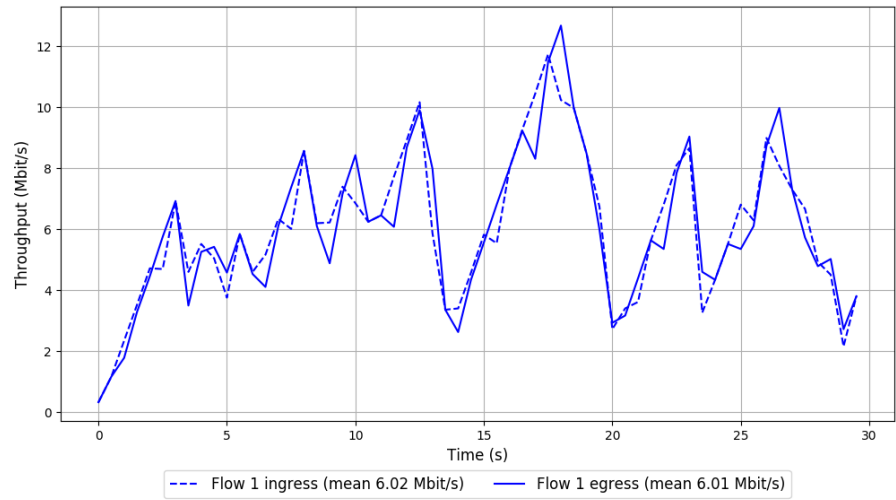
-- Flow 1:

Average throughput: 6.01 Mbit/s

95th percentile per-packet one-way delay: 53.472 ms

Loss rate: 0.08%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-13 06:38:11

End at: 2018-02-13 06:38:41

Below is generated by plot.py at 2018-02-13 09:36:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.60 Mbit/s

95th percentile per-packet one-way delay: 53.761 ms

Loss rate: 0.01%

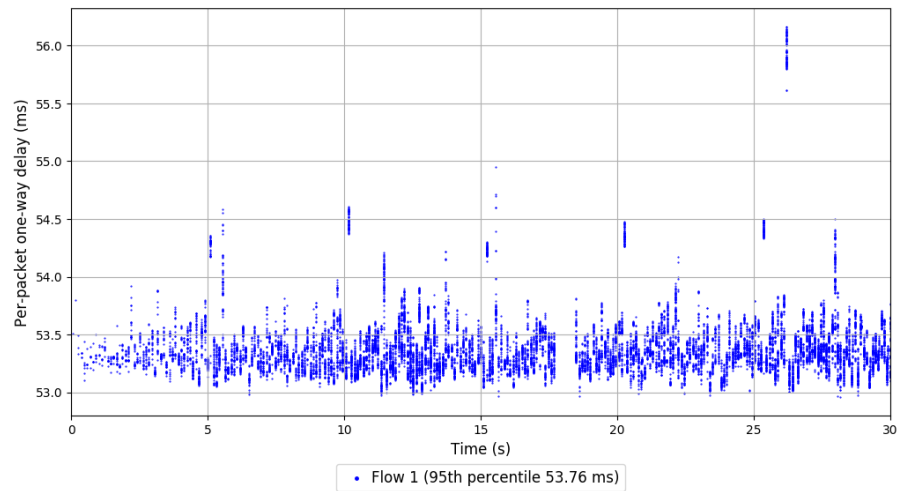
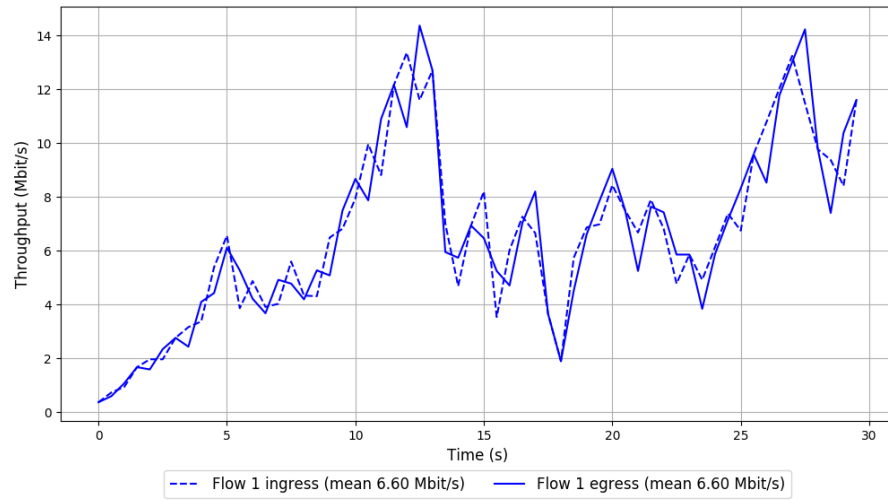
-- Flow 1:

Average throughput: 6.60 Mbit/s

95th percentile per-packet one-way delay: 53.761 ms

Loss rate: 0.01%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-13 06:52:30

End at: 2018-02-13 06:53:00

Below is generated by plot.py at 2018-02-13 09:36:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.49 Mbit/s

95th percentile per-packet one-way delay: 54.193 ms

Loss rate: 0.03%

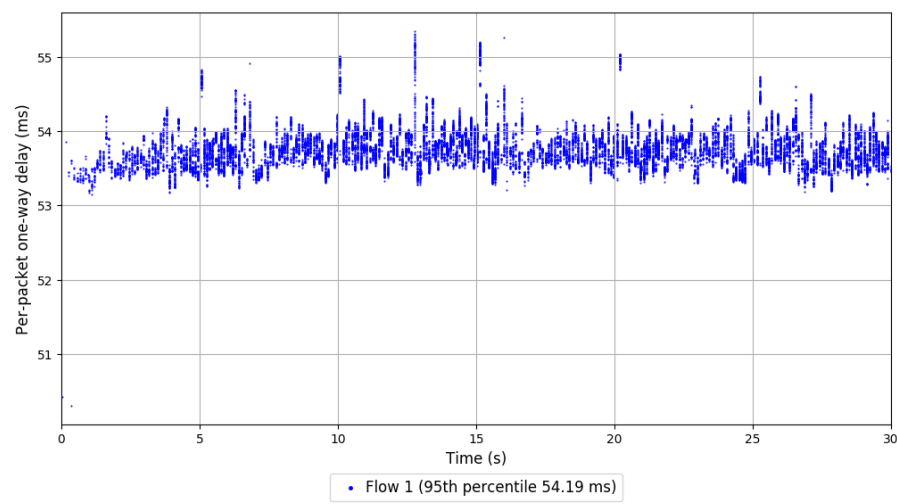
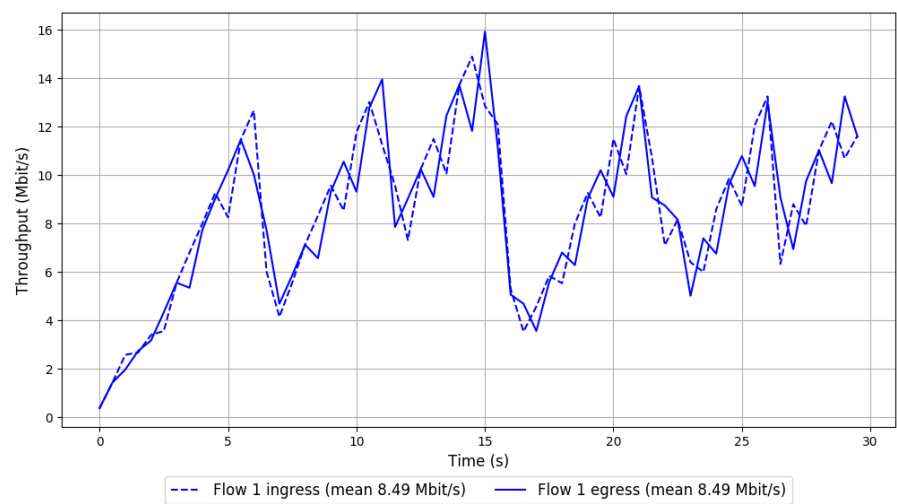
-- Flow 1:

Average throughput: 8.49 Mbit/s

95th percentile per-packet one-way delay: 54.193 ms

Loss rate: 0.03%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-13 07:06:52

End at: 2018-02-13 07:07:22

Below is generated by plot.py at 2018-02-13 09:36:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.56 Mbit/s

95th percentile per-packet one-way delay: 54.138 ms

Loss rate: 0.04%

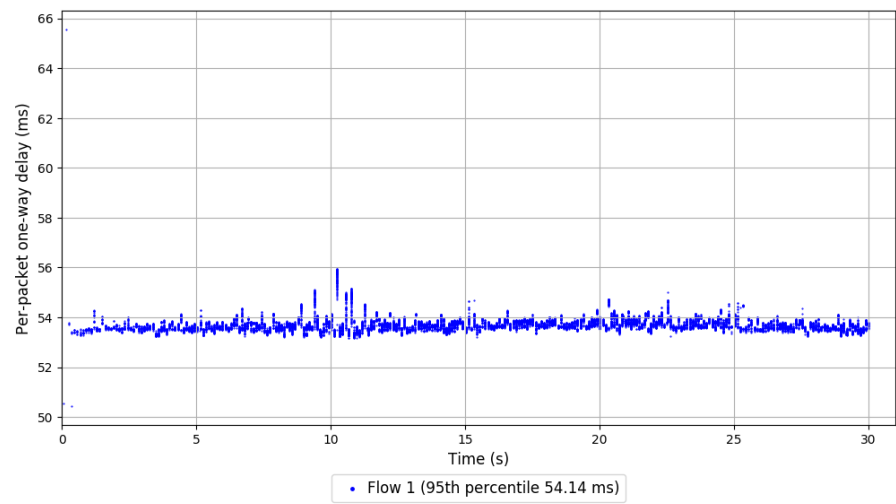
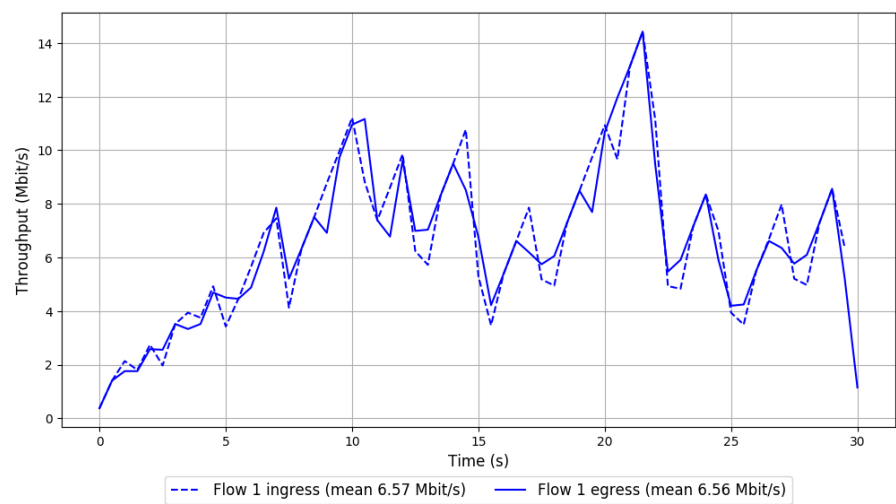
-- Flow 1:

Average throughput: 6.56 Mbit/s

95th percentile per-packet one-way delay: 54.138 ms

Loss rate: 0.04%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-13 07:21:23

End at: 2018-02-13 07:21:53

Below is generated by plot.py at 2018-02-13 09:36:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.28 Mbit/s

95th percentile per-packet one-way delay: 54.012 ms

Loss rate: 0.04%

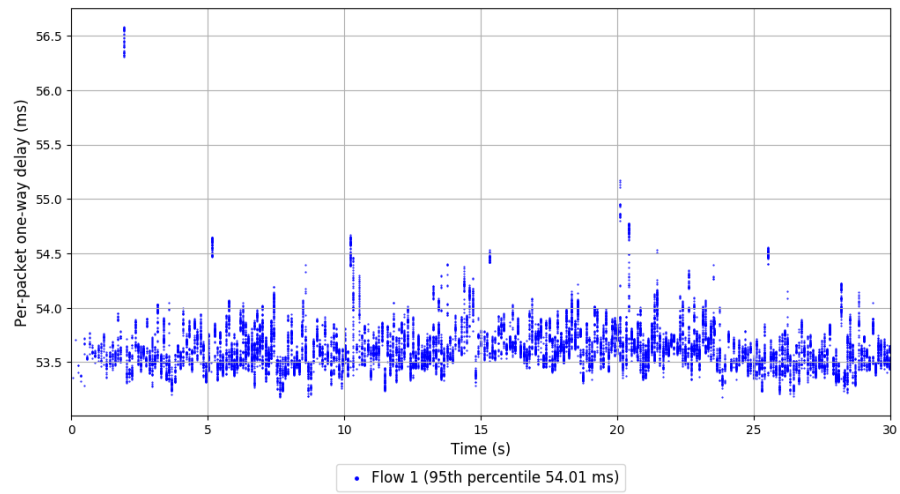
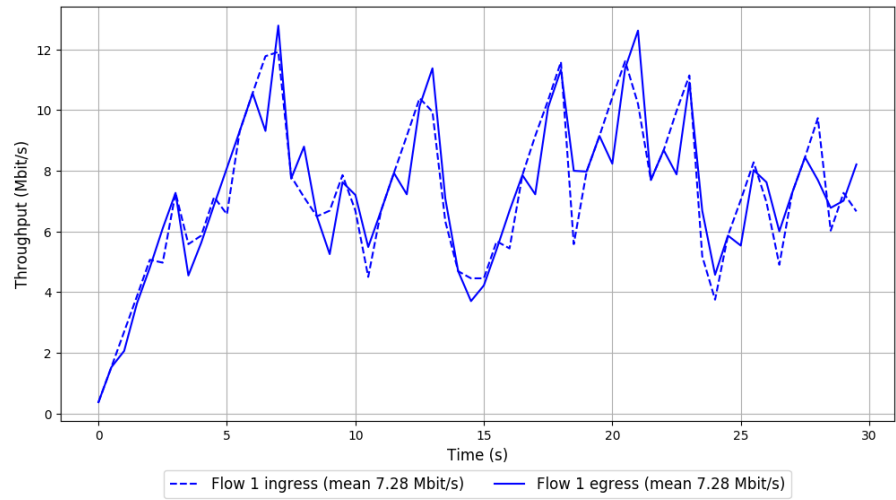
-- Flow 1:

Average throughput: 7.28 Mbit/s

95th percentile per-packet one-way delay: 54.012 ms

Loss rate: 0.04%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-13 07:35:45

End at: 2018-02-13 07:36:15

Below is generated by plot.py at 2018-02-13 09:36:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.92 Mbit/s

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

Loss rate: 0.04%

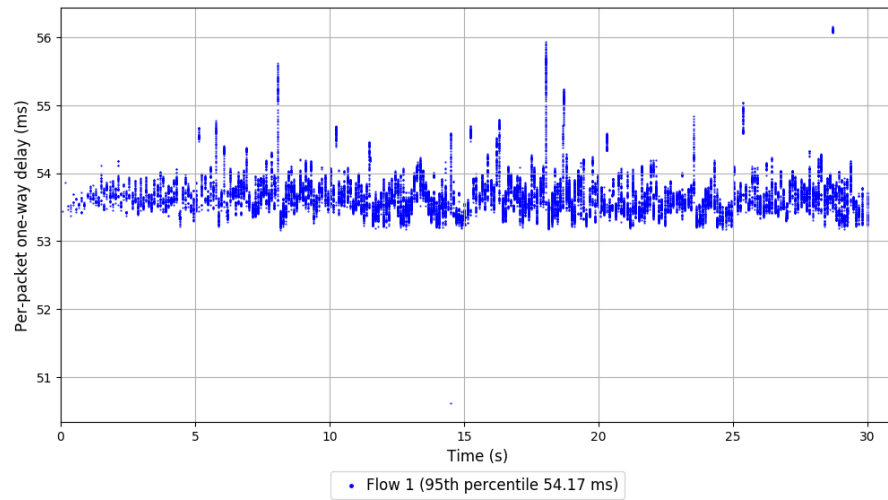
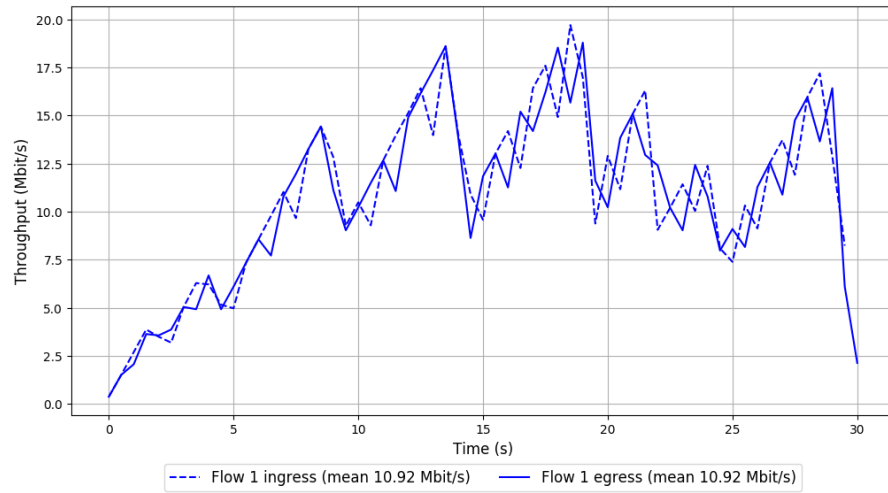
-- Flow 1:

Average throughput: 10.92 Mbit/s

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

Loss rate: 0.04%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-13 07:50:20

End at: 2018-02-13 07:50:50

Below is generated by plot.py at 2018-02-13 09:36:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.33 Mbit/s

95th percentile per-packet one-way delay: 54.200 ms

Loss rate: 0.02%

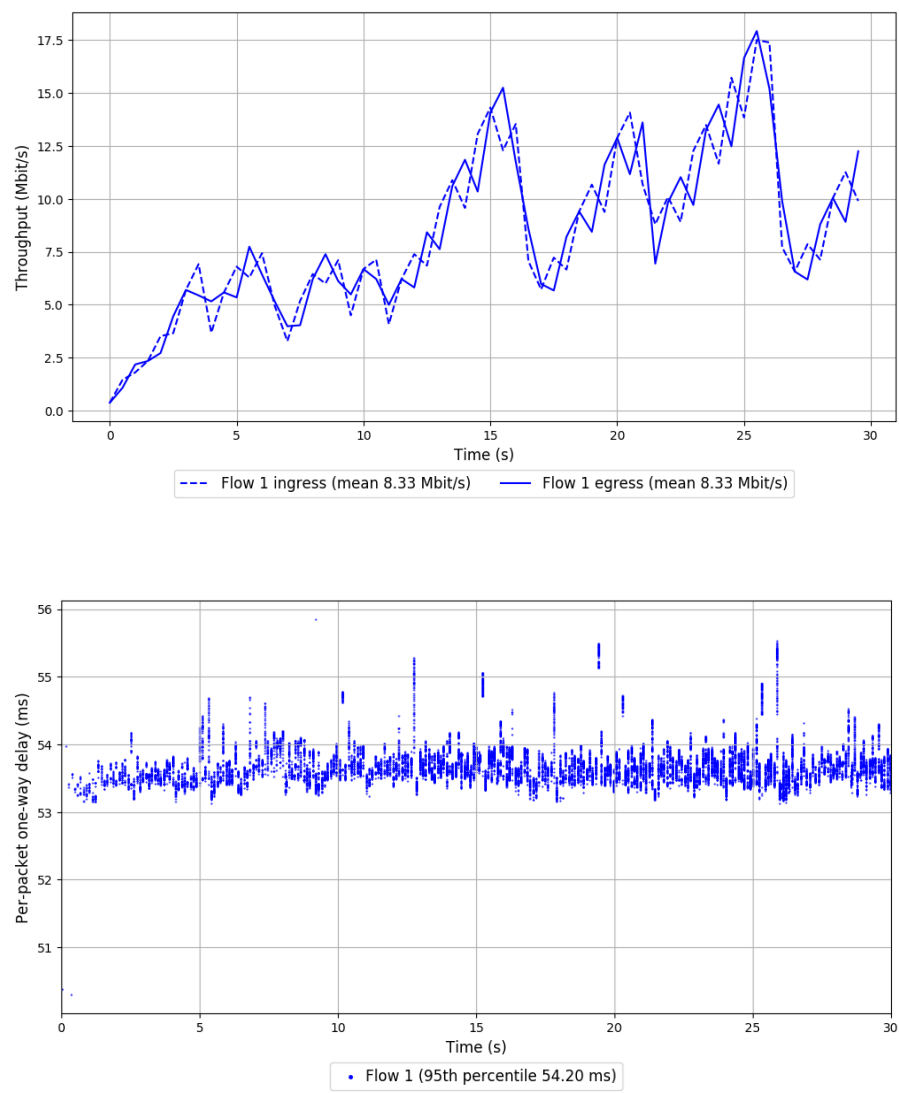
-- Flow 1:

Average throughput: 8.33 Mbit/s

95th percentile per-packet one-way delay: 54.200 ms

Loss rate: 0.02%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: 2018-02-13 05:35:27

End at: 2018-02-13 05:35:57

Below is generated by plot.py at 2018-02-13 09:44:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 537.45 Mbit/s

95th percentile per-packet one-way delay: 130.681 ms

Loss rate: 0.52%

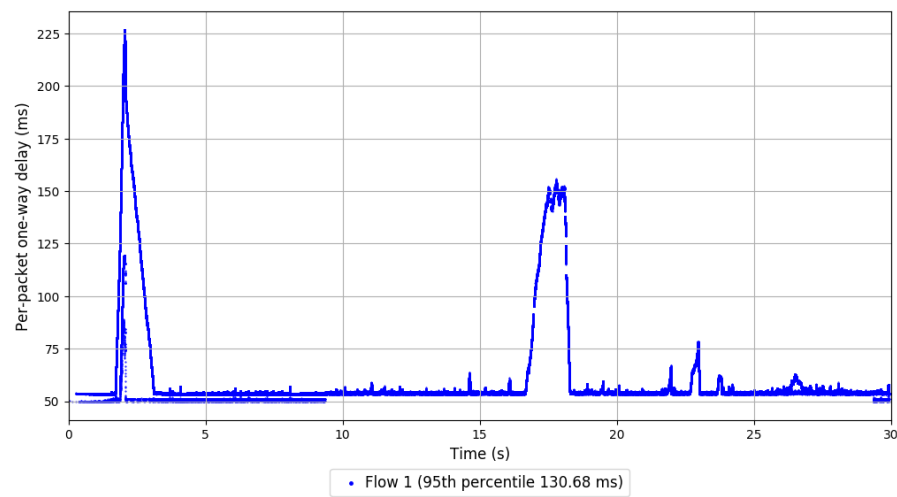
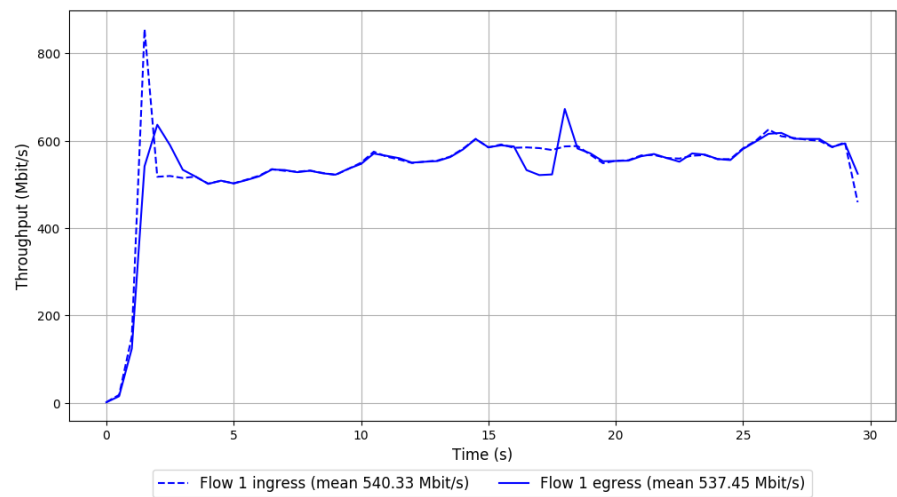
-- Flow 1:

Average throughput: 537.45 Mbit/s

95th percentile per-packet one-way delay: 130.681 ms

Loss rate: 0.52%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-13 05:49:52

End at: 2018-02-13 05:50:22

Below is generated by plot.py at 2018-02-13 09:44:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 543.56 Mbit/s

95th percentile per-packet one-way delay: 106.121 ms

Loss rate: 0.24%

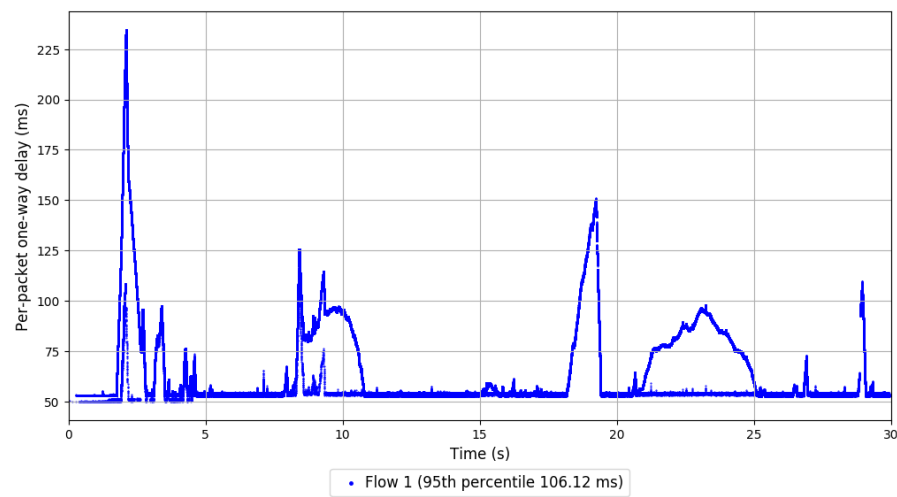
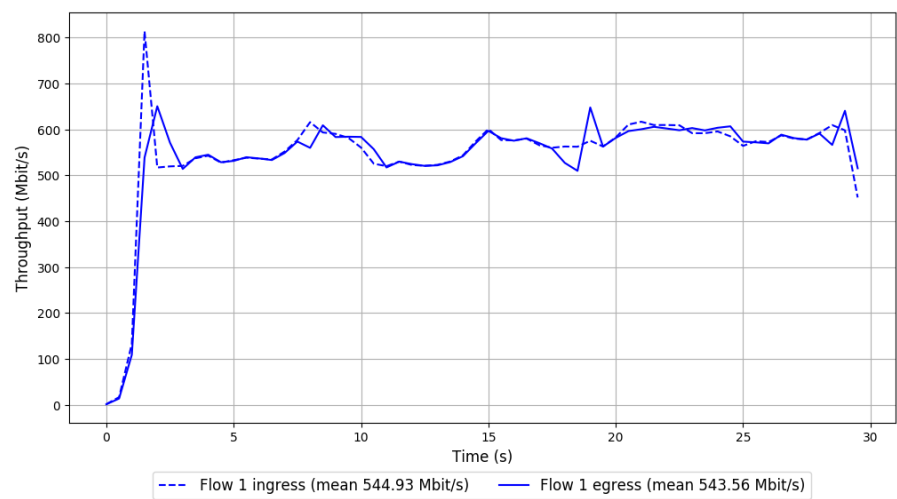
-- Flow 1:

Average throughput: 543.56 Mbit/s

95th percentile per-packet one-way delay: 106.121 ms

Loss rate: 0.24%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-13 06:04:18

End at: 2018-02-13 06:04:48

Below is generated by plot.py at 2018-02-13 09:44:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 563.85 Mbit/s

95th percentile per-packet one-way delay: 175.655 ms

Loss rate: 1.04%

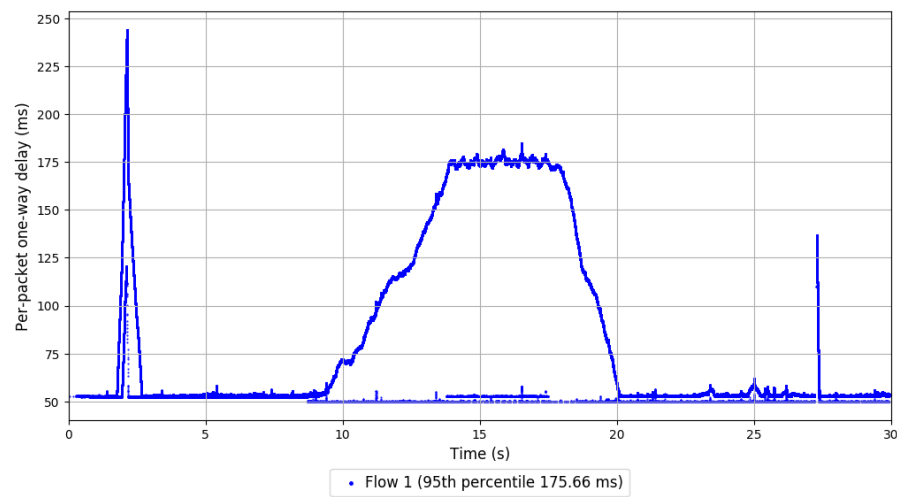
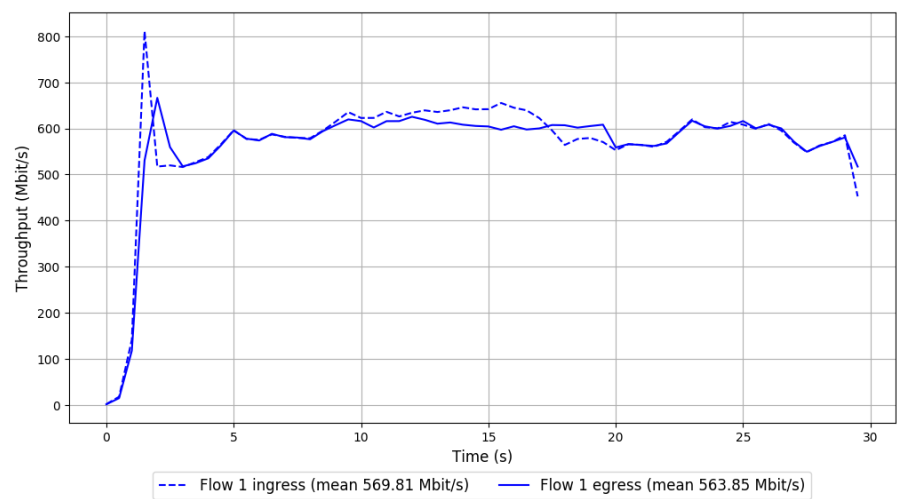
-- Flow 1:

Average throughput: 563.85 Mbit/s

95th percentile per-packet one-way delay: 175.655 ms

Loss rate: 1.04%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-13 06:18:40

End at: 2018-02-13 06:19:10

Below is generated by plot.py at 2018-02-13 09:44:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 562.40 Mbit/s

95th percentile per-packet one-way delay: 72.980 ms

Loss rate: 0.29%

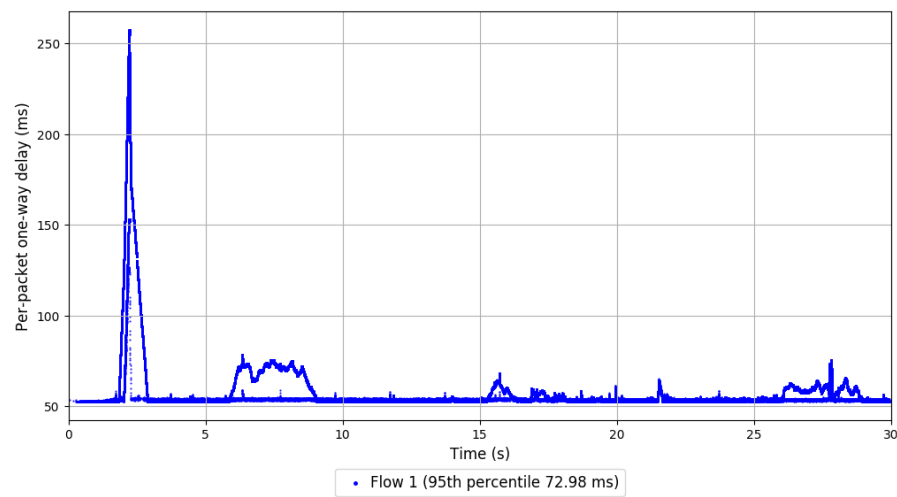
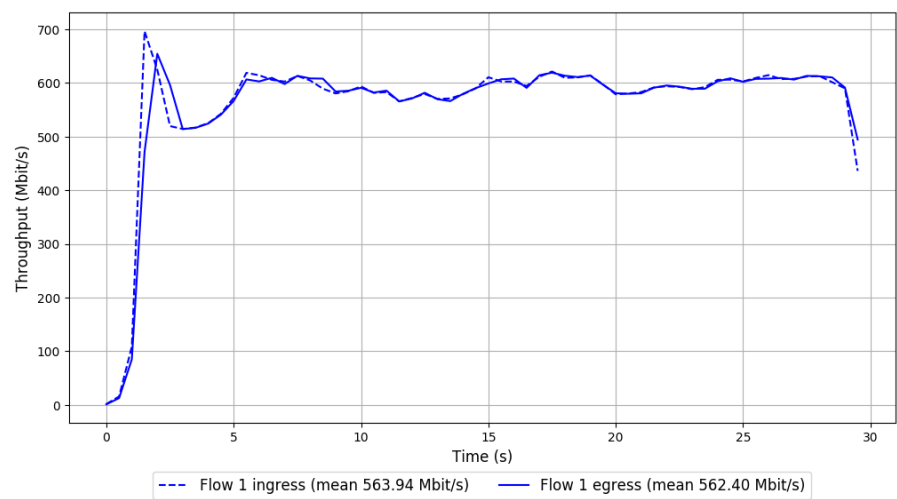
-- Flow 1:

Average throughput: 562.40 Mbit/s

95th percentile per-packet one-way delay: 72.980 ms

Loss rate: 0.29%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-13 06:32:57

End at: 2018-02-13 06:33:28

Below is generated by plot.py at 2018-02-13 09:44:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 558.60 Mbit/s

95th percentile per-packet one-way delay: 178.647 ms

Loss rate: 1.76%

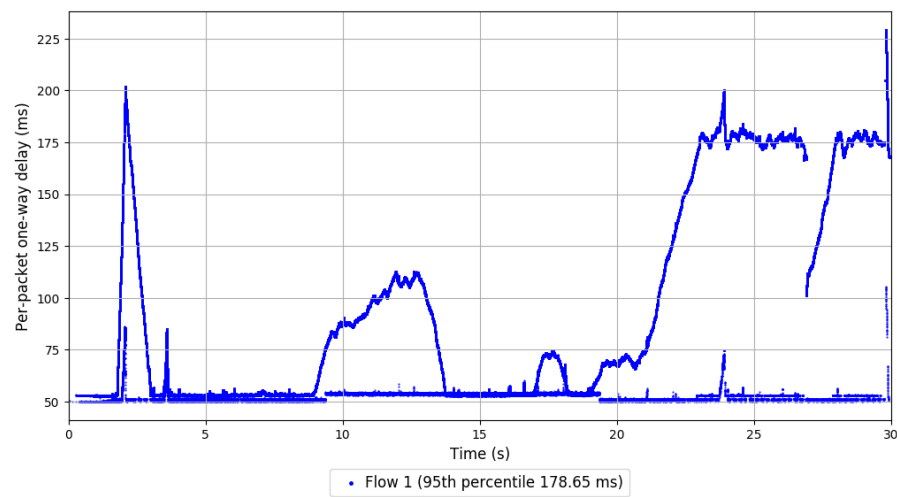
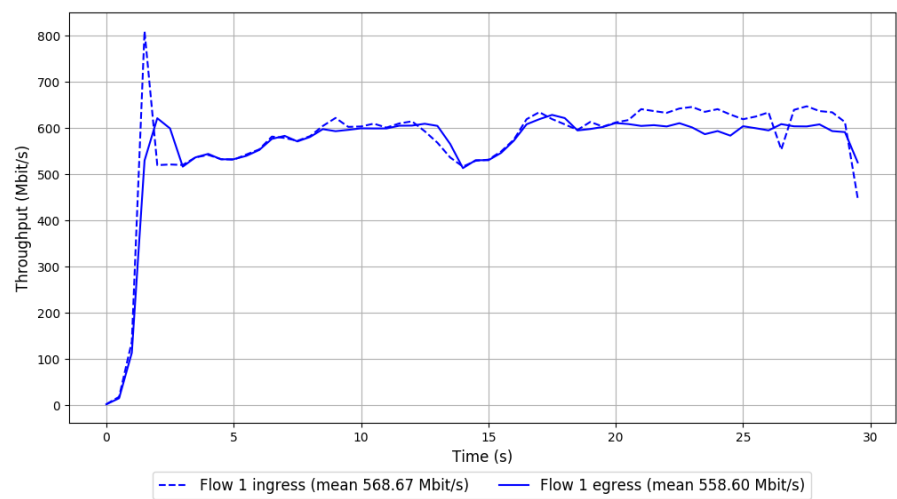
-- Flow 1:

Average throughput: 558.60 Mbit/s

95th percentile per-packet one-way delay: 178.647 ms

Loss rate: 1.76%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-13 06:47:11

End at: 2018-02-13 06:47:41

Below is generated by plot.py at 2018-02-13 09:44:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 538.65 Mbit/s

95th percentile per-packet one-way delay: 59.857 ms

Loss rate: 0.21%

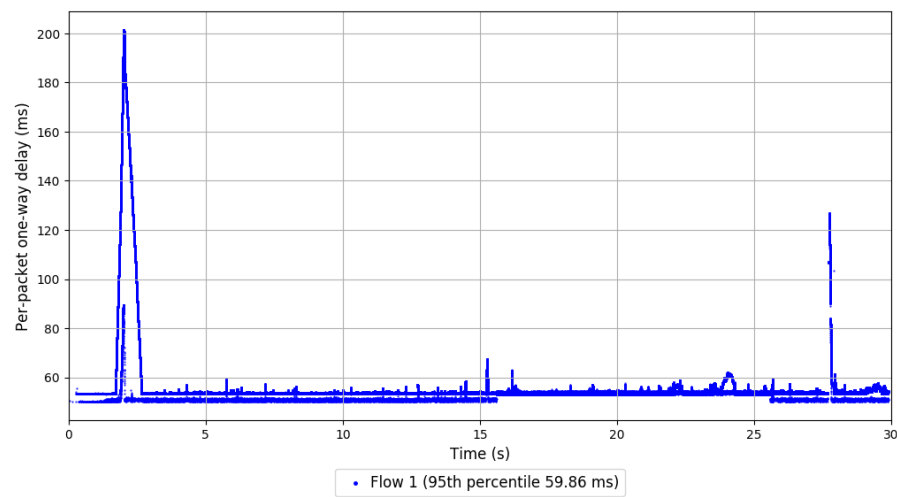
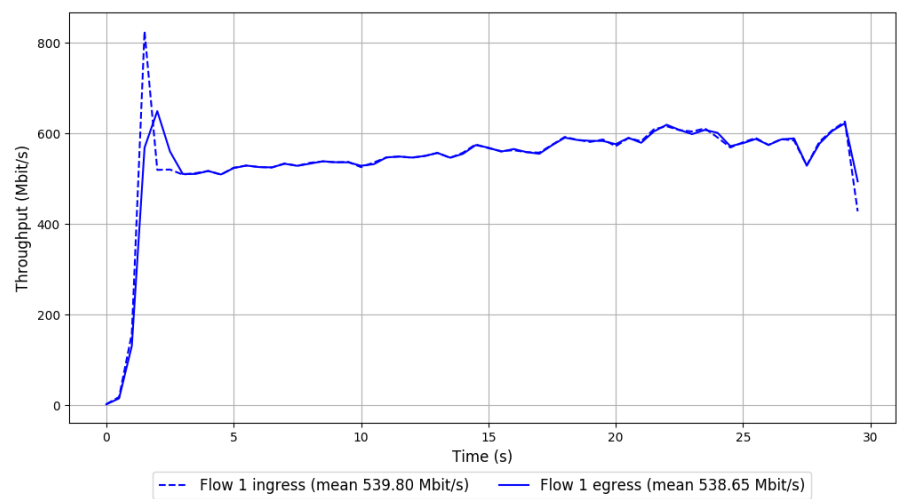
-- Flow 1:

Average throughput: 538.65 Mbit/s

95th percentile per-packet one-way delay: 59.857 ms

Loss rate: 0.21%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-13 07:01:32

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

Below is generated by plot.py at 2018-02-13 09:44:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 547.84 Mbit/s

95th percentile per-packet one-way delay: 175.372 ms

Loss rate: 1.15%

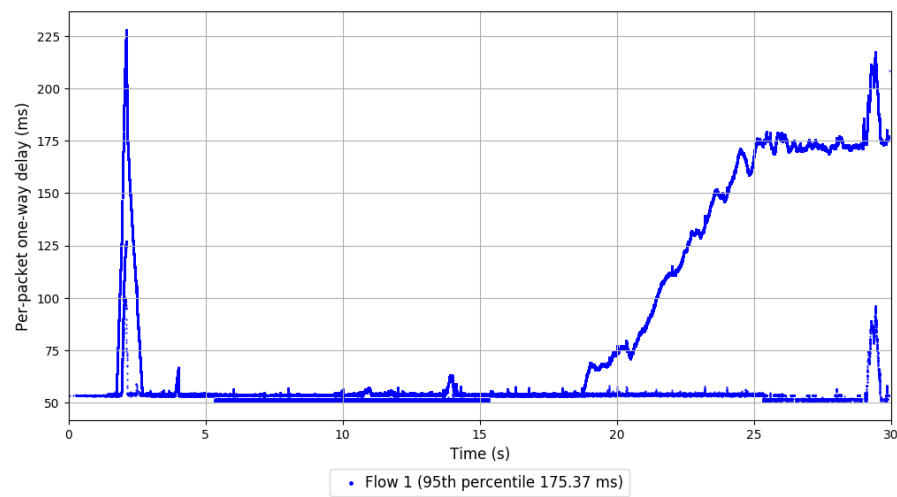
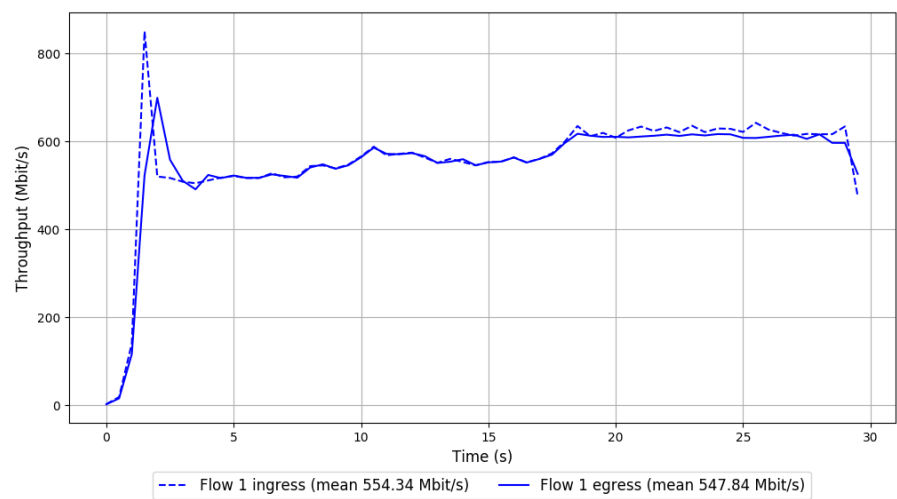
-- Flow 1:

Average throughput: 547.84 Mbit/s

95th percentile per-packet one-way delay: 175.372 ms

Loss rate: 1.15%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

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

End at: 2018-02-13 07:16:37

Below is generated by plot.py at 2018-02-13 09:45:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 552.65 Mbit/s

95th percentile per-packet one-way delay: 62.723 ms

Loss rate: 0.12%

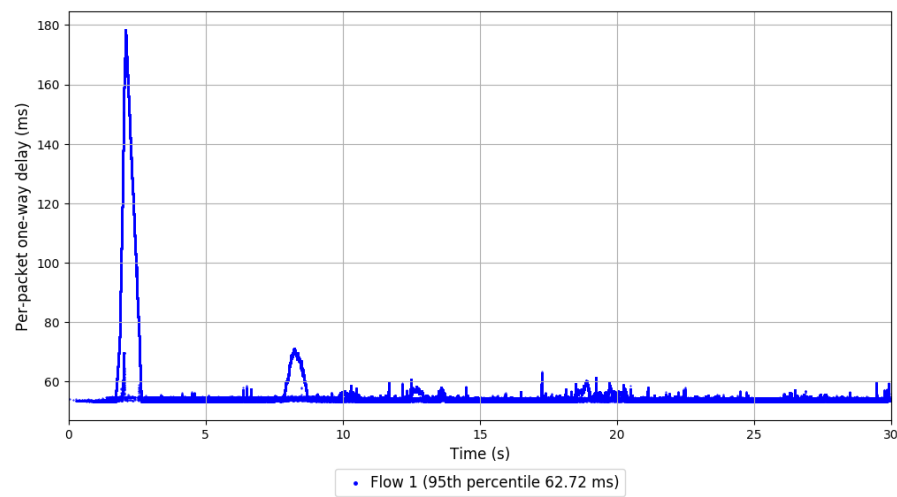
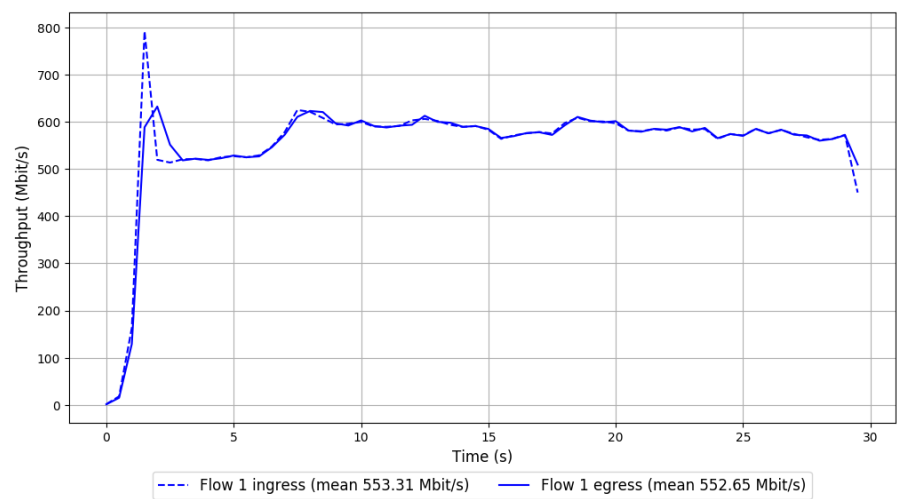
-- Flow 1:

Average throughput: 552.65 Mbit/s

95th percentile per-packet one-way delay: 62.723 ms

Loss rate: 0.12%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-13 07:30:28

End at: 2018-02-13 07:30:58

Below is generated by plot.py at 2018-02-13 09:53:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 520.90 Mbit/s

95th percentile per-packet one-way delay: 124.356 ms

Loss rate: 0.78%

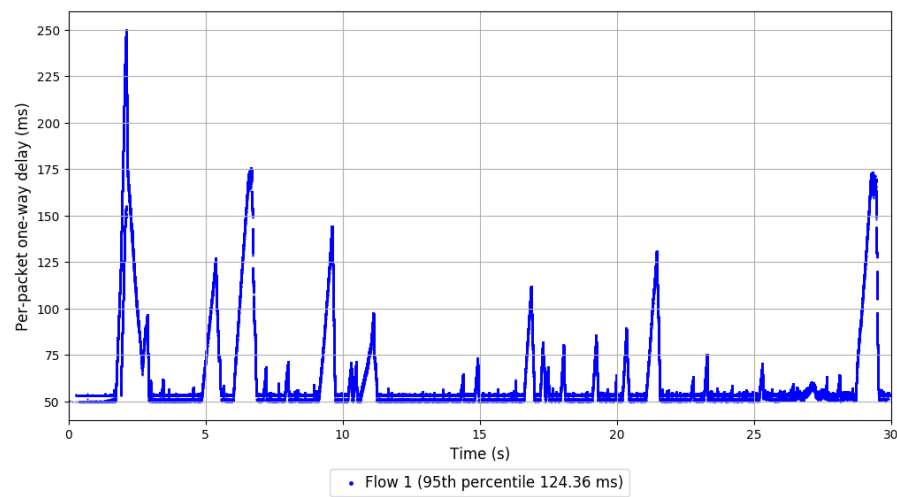
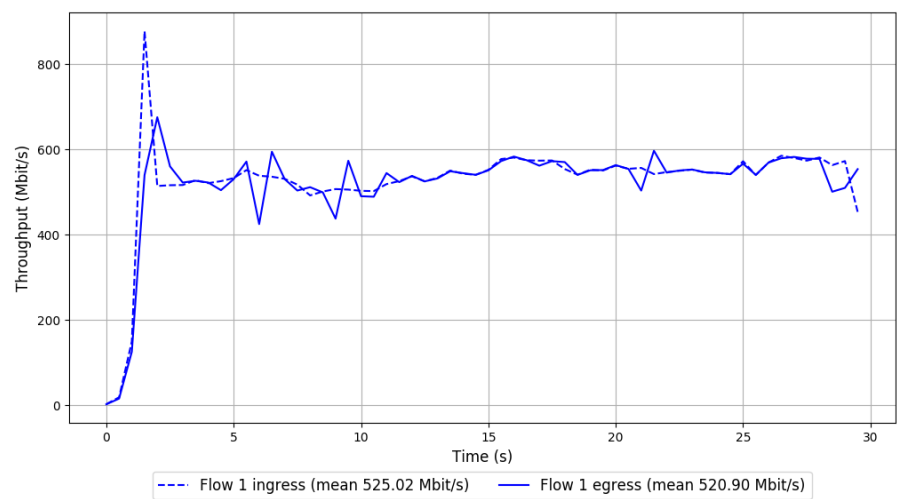
-- Flow 1:

Average throughput: 520.90 Mbit/s

95th percentile per-packet one-way delay: 124.356 ms

Loss rate: 0.78%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-13 07:45:05

End at: 2018-02-13 07:45:35

Below is generated by plot.py at 2018-02-13 09:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 546.41 Mbit/s

95th percentile per-packet one-way delay: 157.979 ms

Loss rate: 0.26%

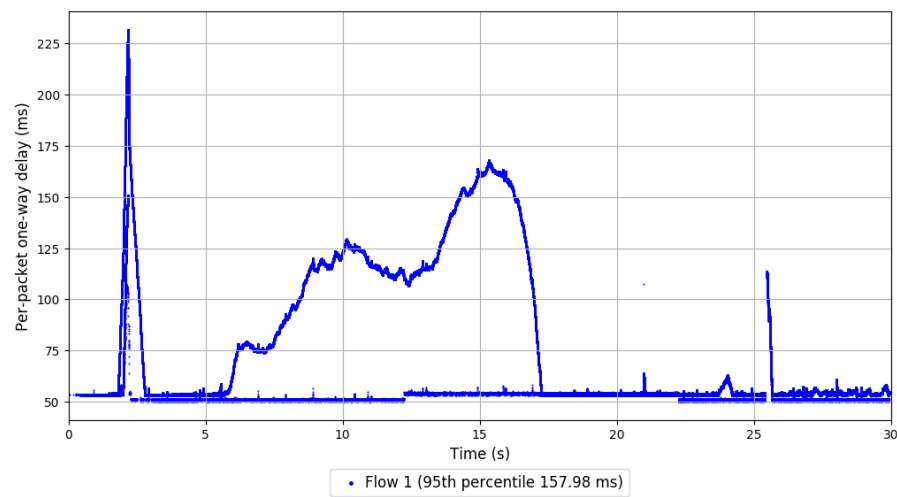
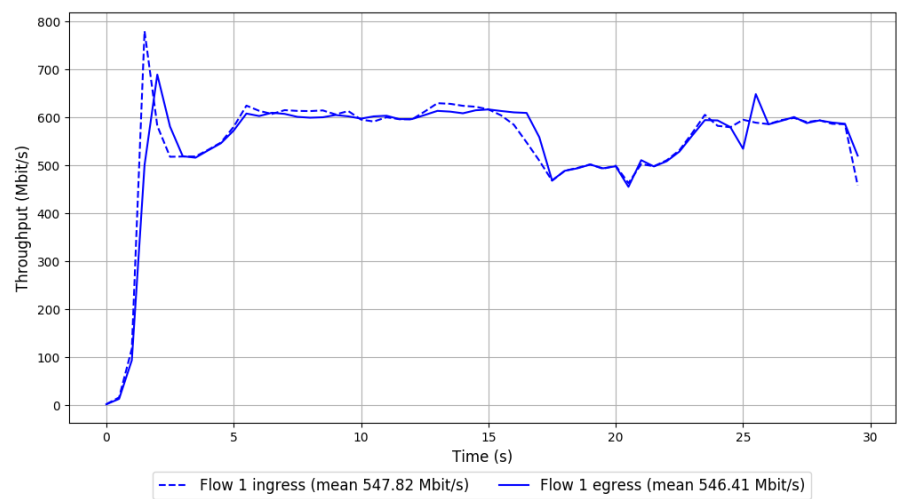
-- Flow 1:

Average throughput: 546.41 Mbit/s

95th percentile per-packet one-way delay: 157.979 ms

Loss rate: 0.26%

Run 10: Report of PCC — Data Link

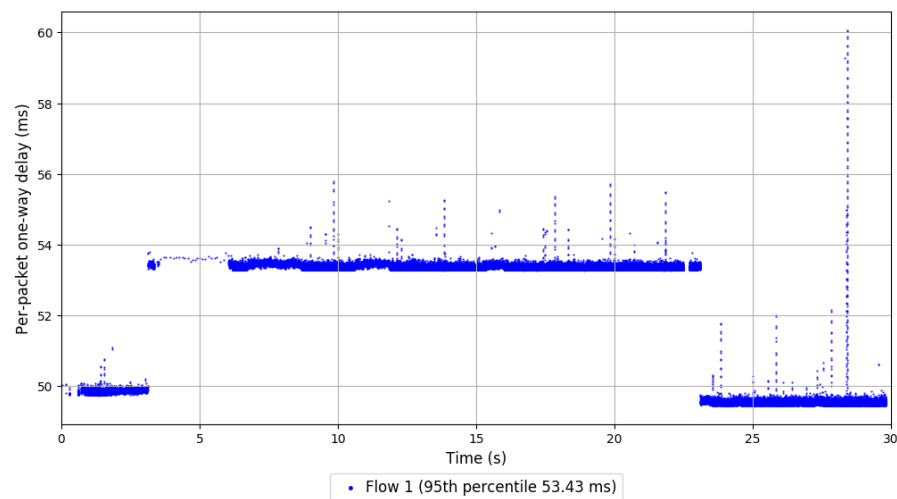
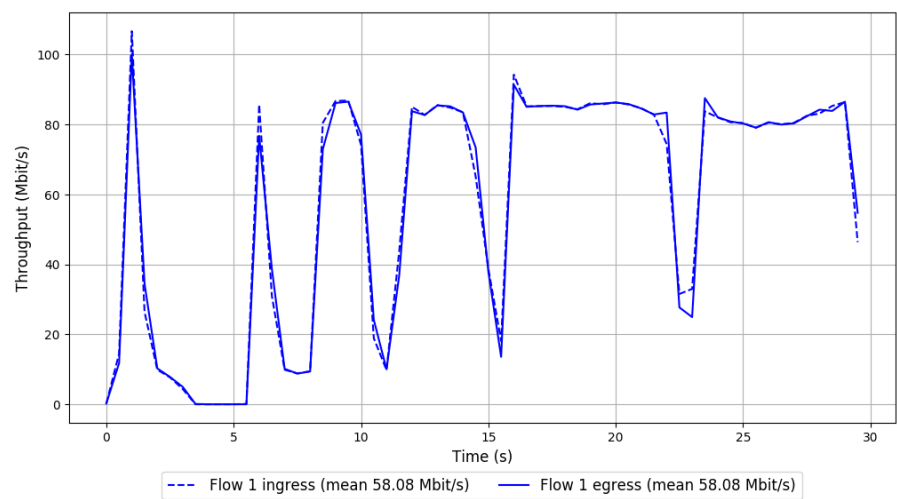


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-02-13 05:43:54
End at: 2018-02-13 05:44:24

# Below is generated by plot.py at 2018-02-13 09:54:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.08 Mbit/s
95th percentile per-packet one-way delay: 53.430 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.08 Mbit/s
95th percentile per-packet one-way delay: 53.430 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-13 05:58:21

End at: 2018-02-13 05:58:51

Below is generated by plot.py at 2018-02-13 09:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.81 Mbit/s

95th percentile per-packet one-way delay: 53.113 ms

Loss rate: 0.00%

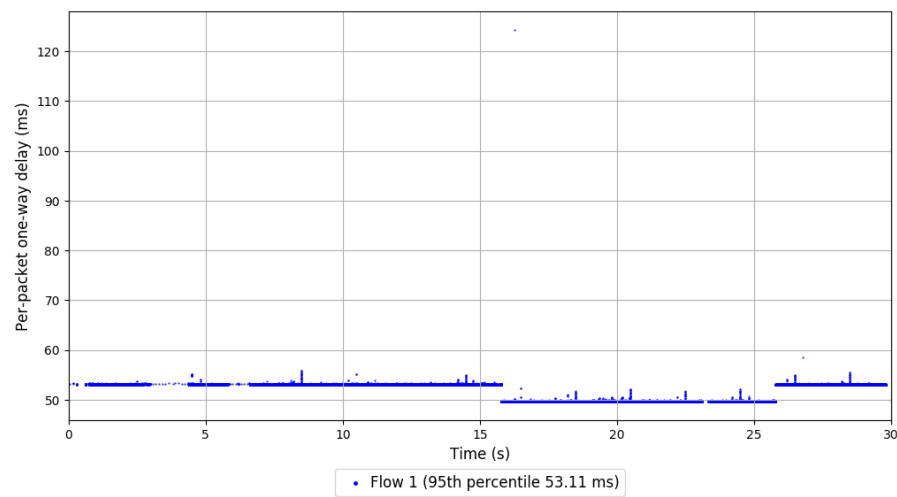
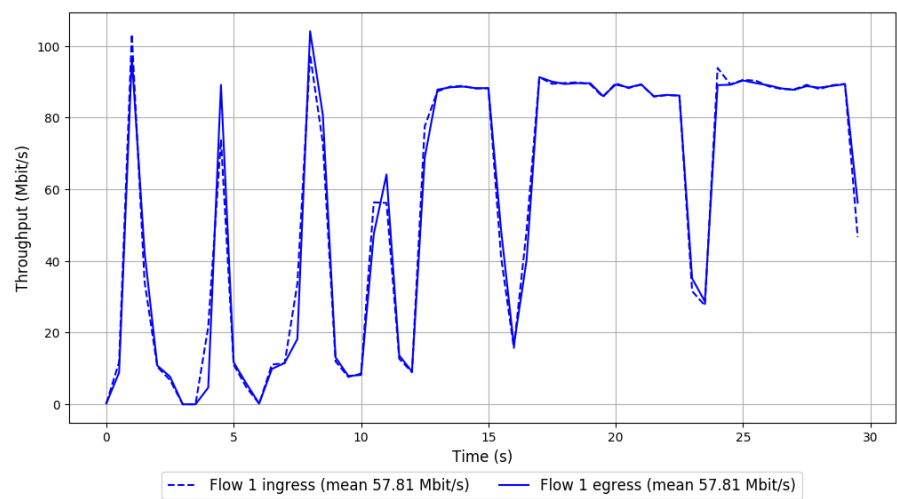
-- Flow 1:

Average throughput: 57.81 Mbit/s

95th percentile per-packet one-way delay: 53.113 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-13 06:12:47

End at: 2018-02-13 06:13:17

Below is generated by plot.py at 2018-02-13 09:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.94 Mbit/s

95th percentile per-packet one-way delay: 52.594 ms

Loss rate: 0.00%

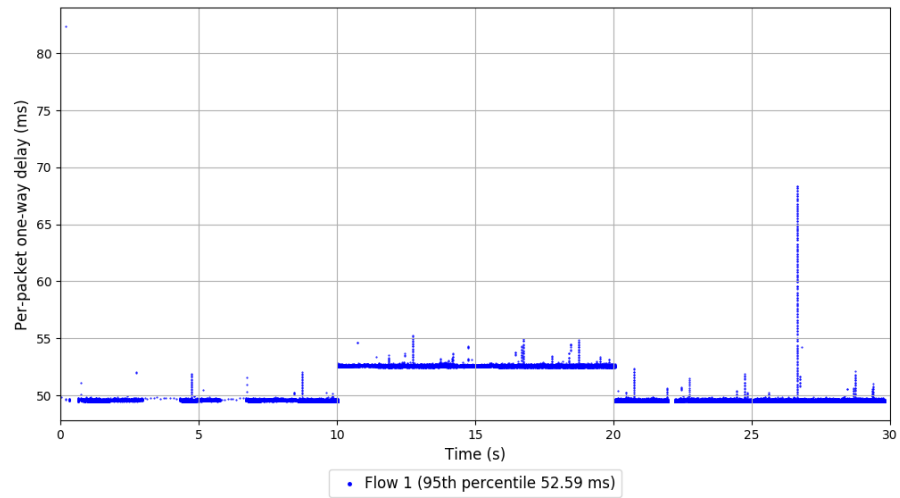
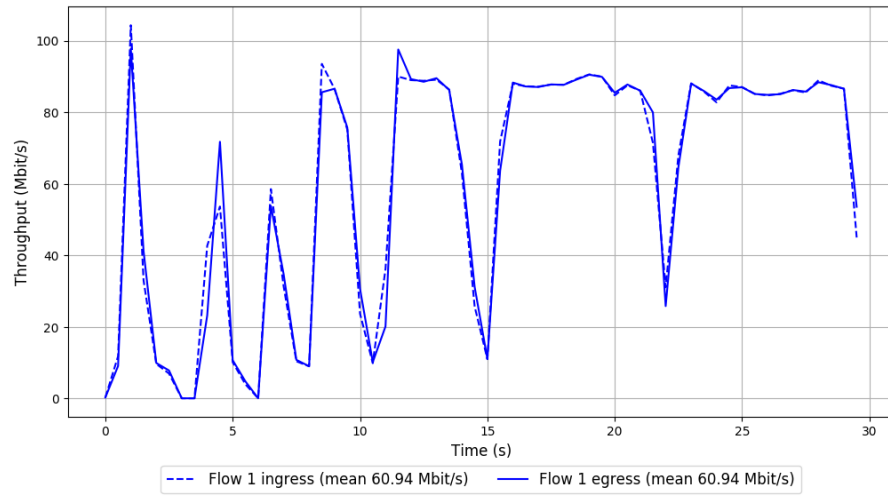
-- Flow 1:

Average throughput: 60.94 Mbit/s

95th percentile per-packet one-way delay: 52.594 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-13 06:27:04

End at: 2018-02-13 06:27:34

Below is generated by plot.py at 2018-02-13 09:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.83 Mbit/s

95th percentile per-packet one-way delay: 50.626 ms

Loss rate: 0.00%

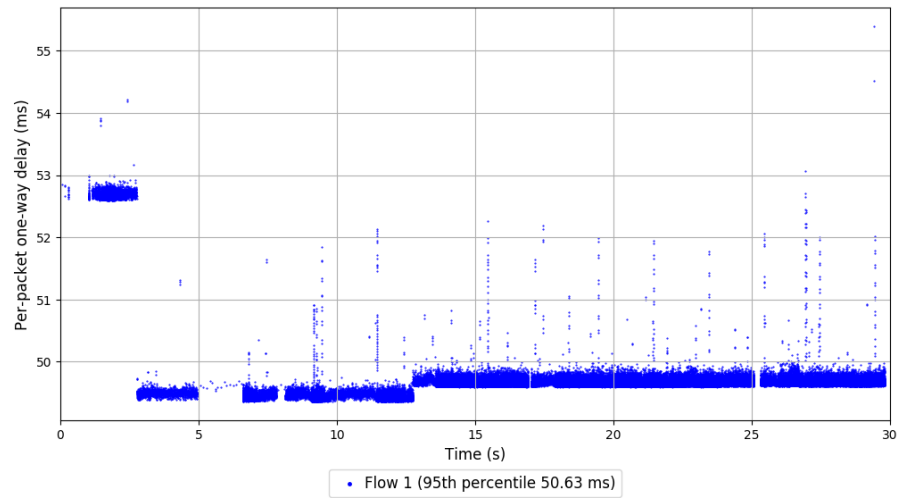
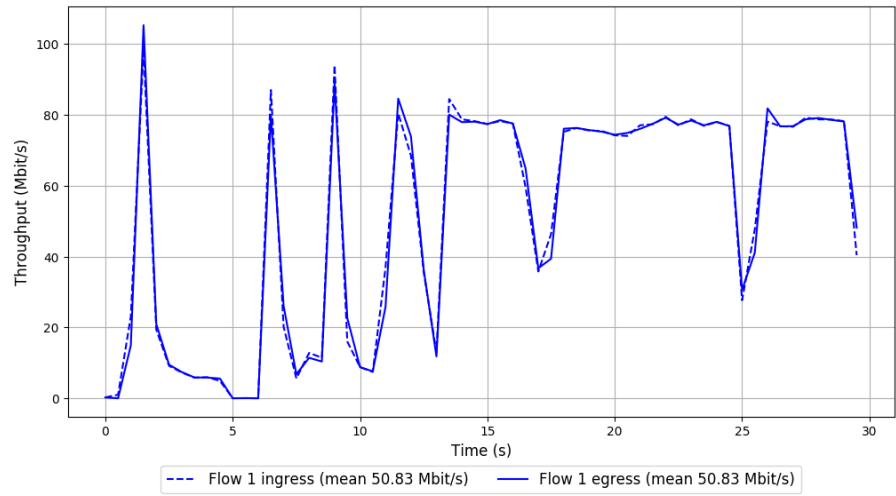
-- Flow 1:

Average throughput: 50.83 Mbit/s

95th percentile per-packet one-way delay: 50.626 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-13 06:41:15

End at: 2018-02-13 06:41:45

Below is generated by plot.py at 2018-02-13 09:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.90 Mbit/s

95th percentile per-packet one-way delay: 52.814 ms

Loss rate: 0.00%

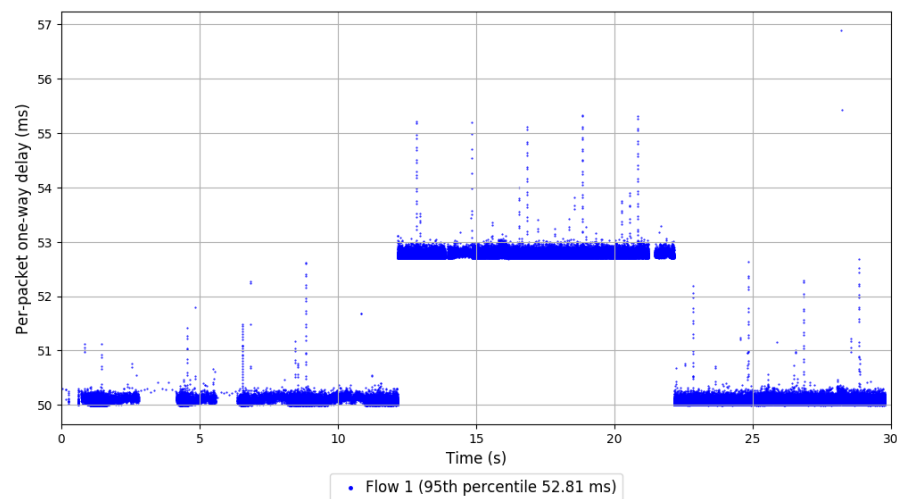
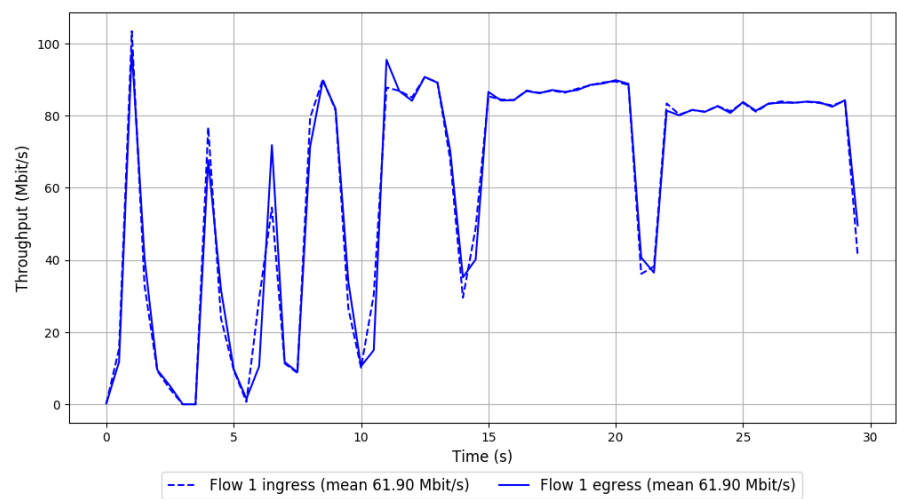
-- Flow 1:

Average throughput: 61.90 Mbit/s

95th percentile per-packet one-way delay: 52.814 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link

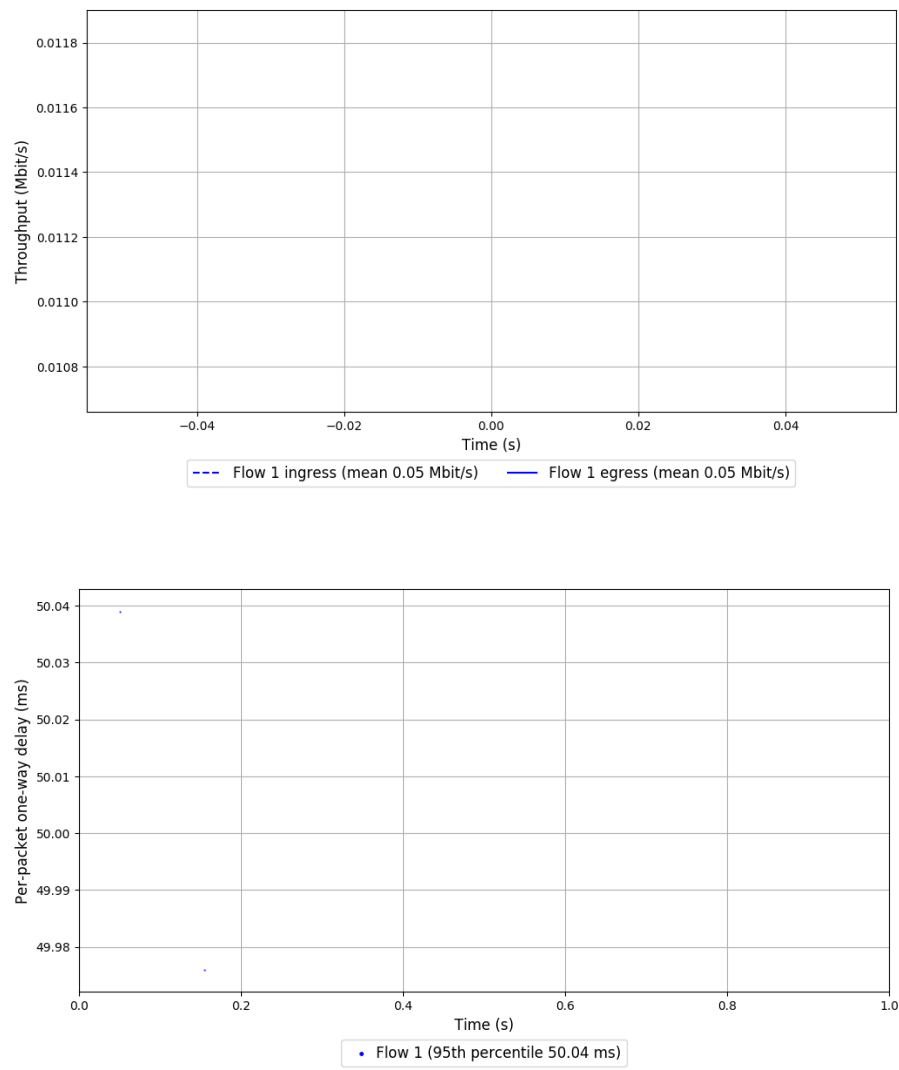


Run 6: Statistics of QUIC Cubic

Start at: 2018-02-13 06:55:41

End at: 2018-02-13 06:56:11

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-13 07:10:04

End at: 2018-02-13 07:10:34

Below is generated by plot.py at 2018-02-13 09:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.03 Mbit/s

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

Loss rate: 0.00%

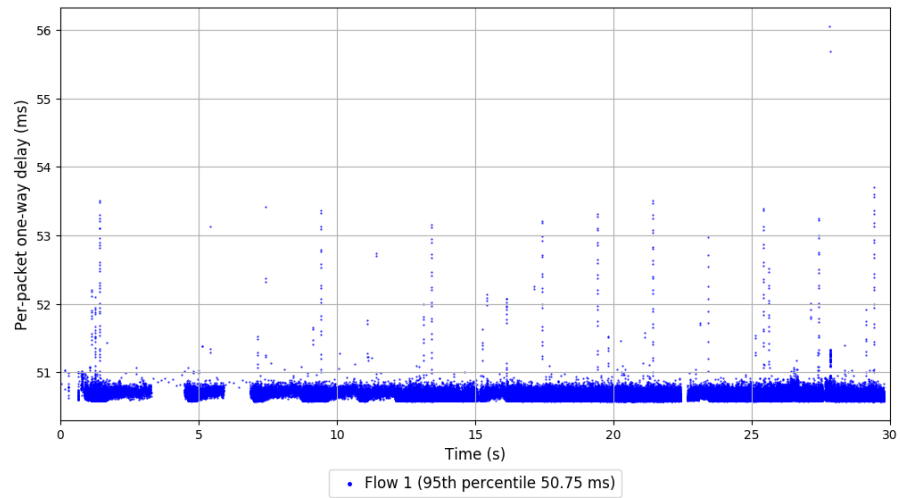
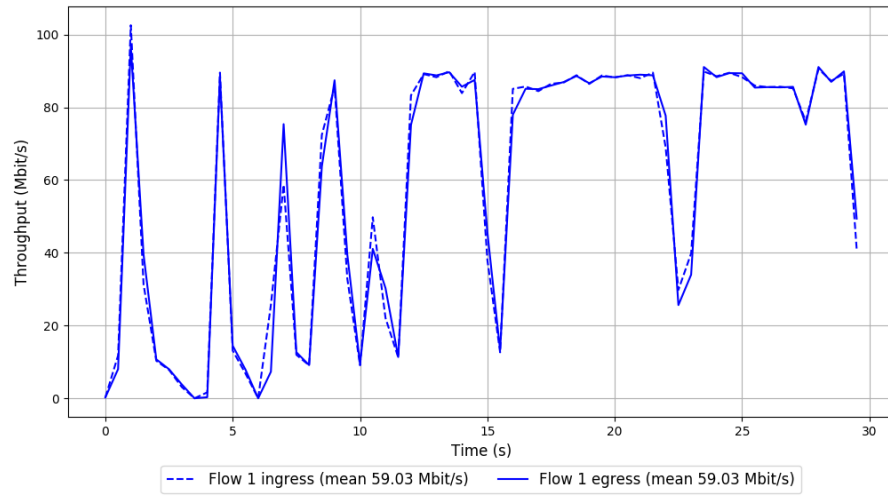
-- Flow 1:

Average throughput: 59.03 Mbit/s

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

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-13 07:24:33

End at: 2018-02-13 07:25:03

Below is generated by plot.py at 2018-02-13 09:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.81 Mbit/s

95th percentile per-packet one-way delay: 50.321 ms

Loss rate: 0.00%

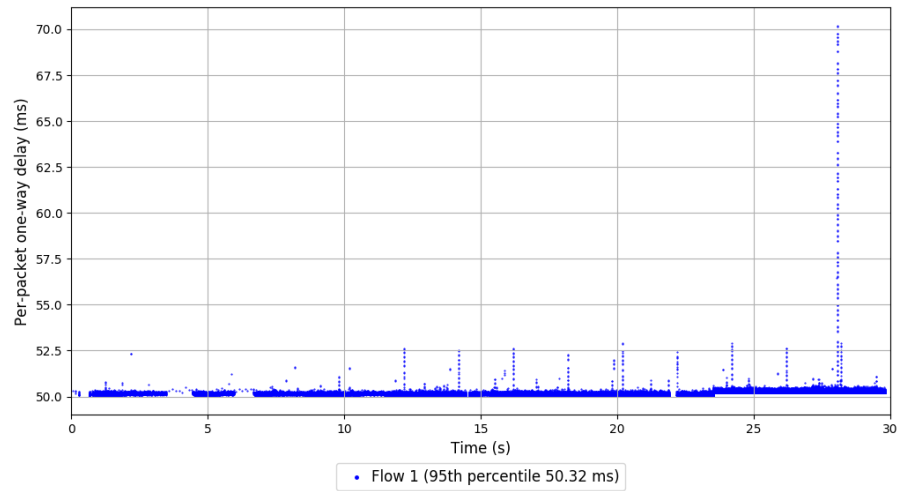
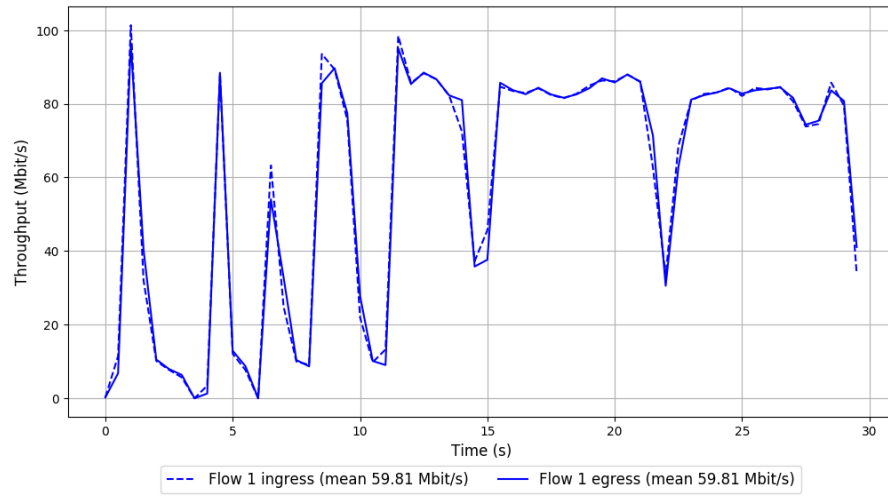
-- Flow 1:

Average throughput: 59.81 Mbit/s

95th percentile per-packet one-way delay: 50.321 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-13 07:38:53

End at: 2018-02-13 07:39:23

Below is generated by plot.py at 2018-02-13 09:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.43 Mbit/s

95th percentile per-packet one-way delay: 53.403 ms

Loss rate: 0.00%

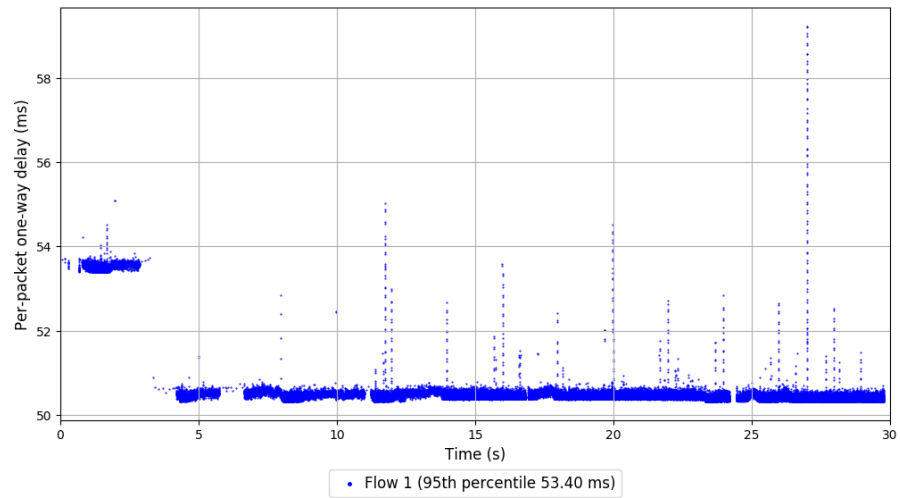
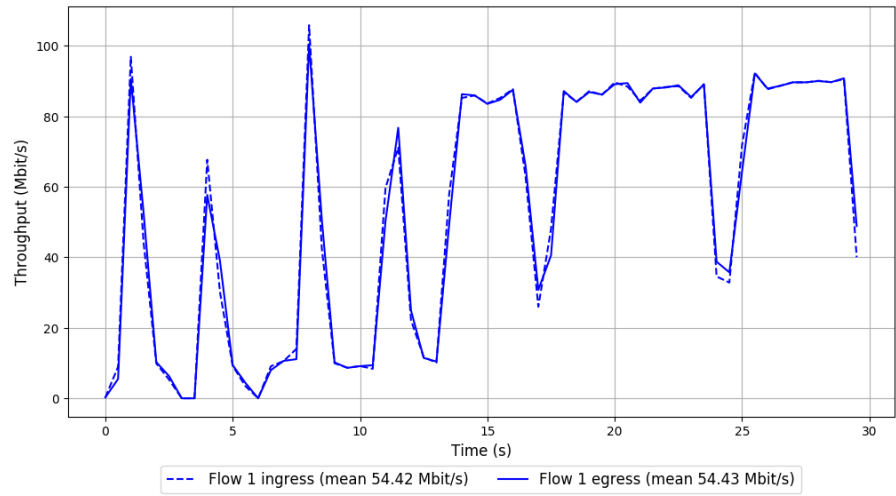
-- Flow 1:

Average throughput: 54.43 Mbit/s

95th percentile per-packet one-way delay: 53.403 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-02-13 07:53:32

End at: 2018-02-13 07:54:02

Below is generated by plot.py at 2018-02-13 09:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.14 Mbit/s

95th percentile per-packet one-way delay: 53.388 ms

Loss rate: 0.00%

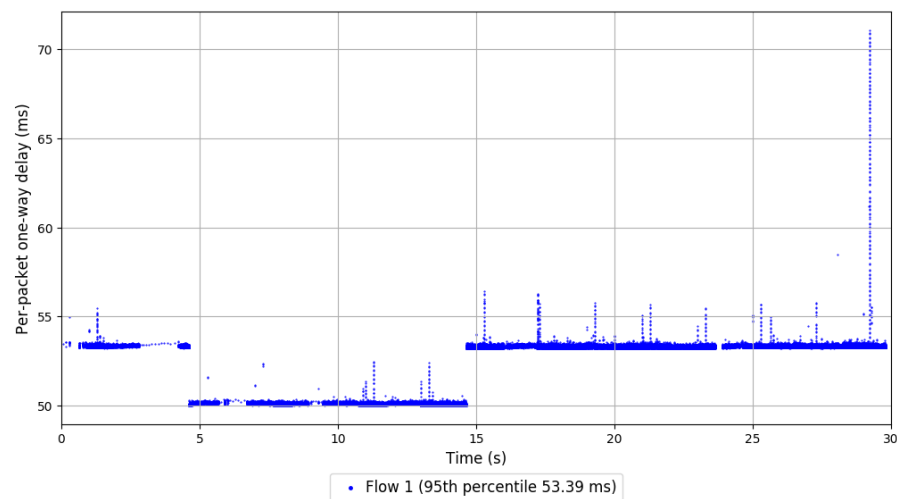
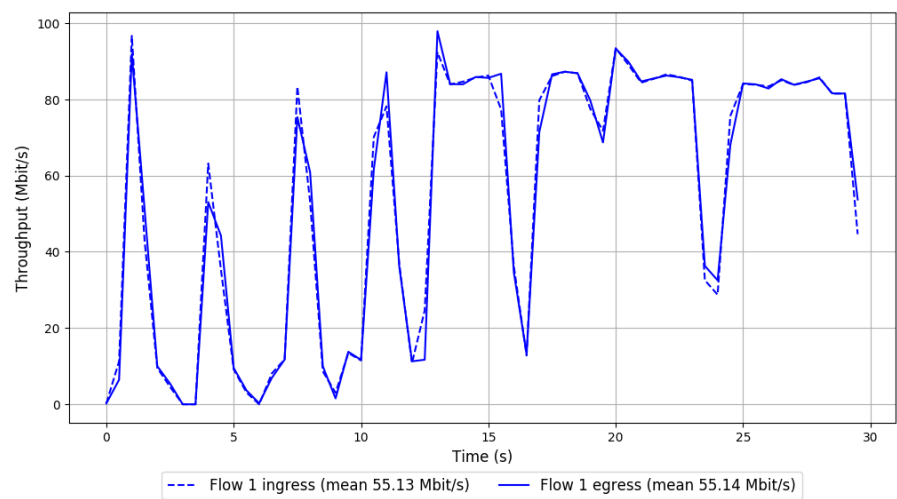
-- Flow 1:

Average throughput: 55.14 Mbit/s

95th percentile per-packet one-way delay: 53.388 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

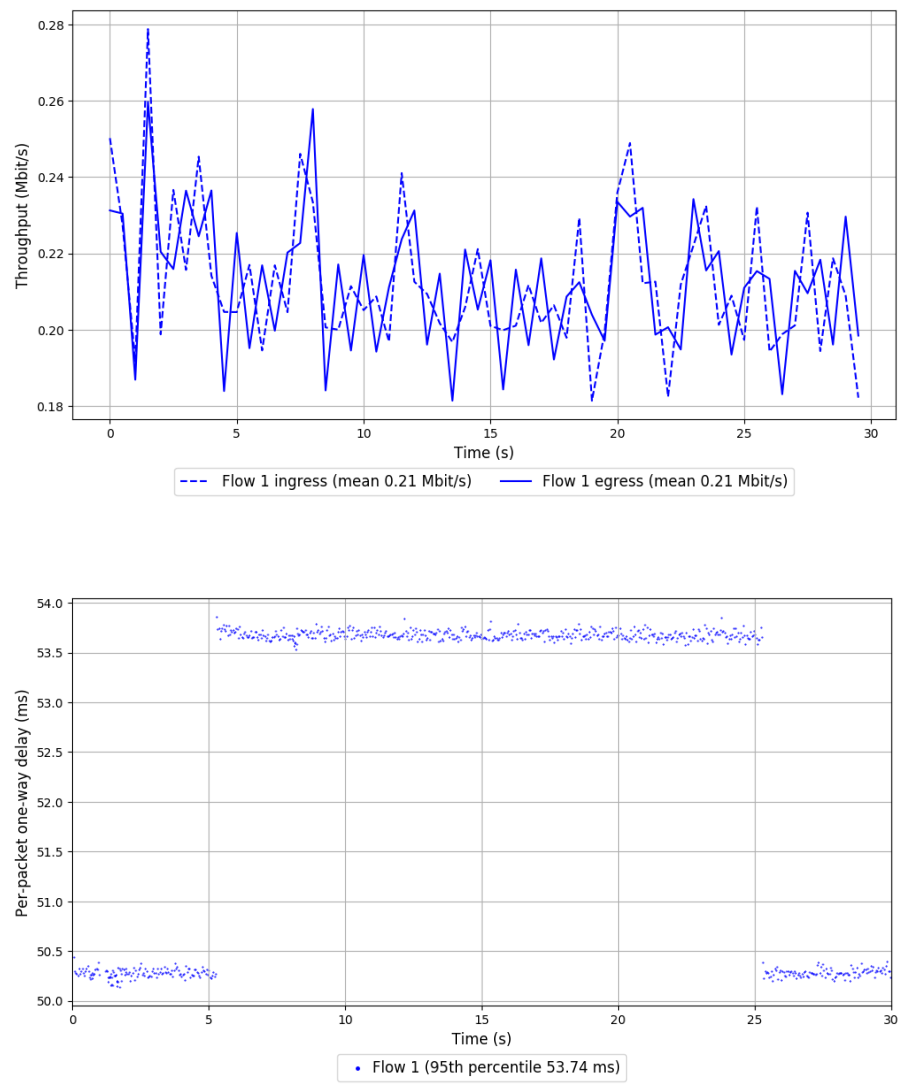


```
Run 1: Statistics of SCReAM

Start at: 2018-02-13 05:32:32
End at: 2018-02-13 05:33:02

# Below is generated by plot.py at 2018-02-13 09:54:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.743 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.743 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

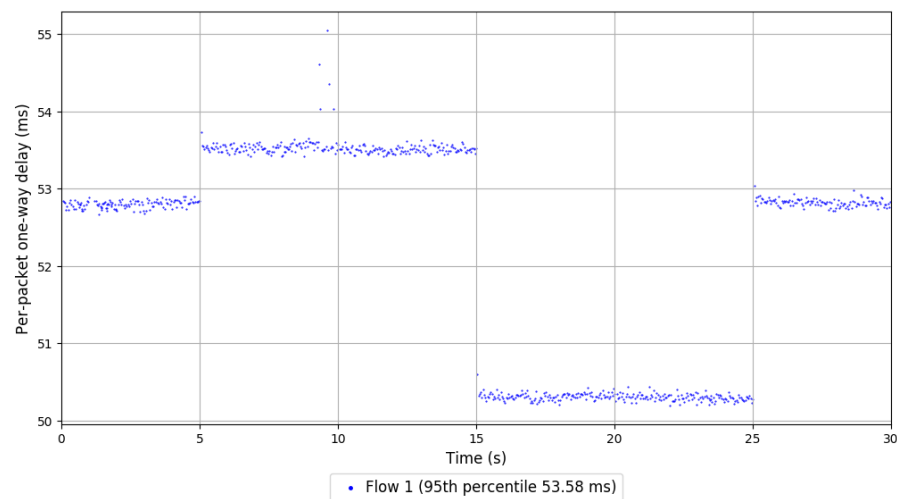
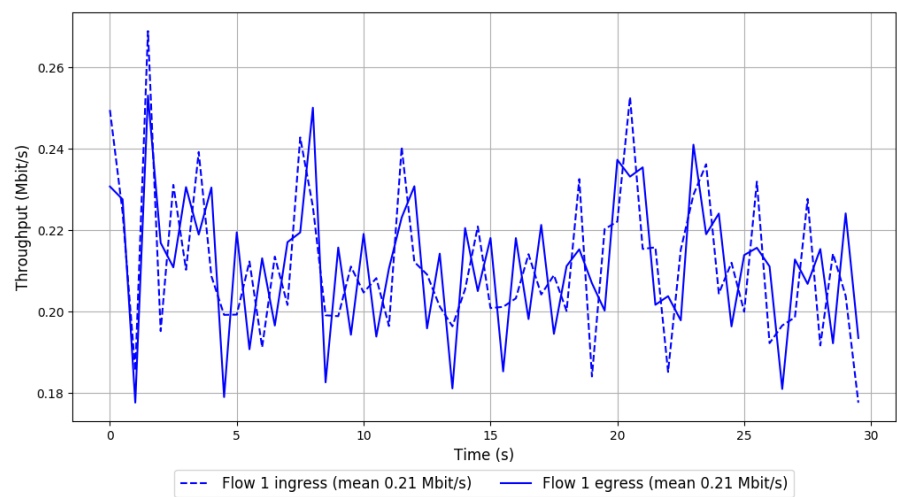


```
Run 2: Statistics of SCReAM

Start at: 2018-02-13 05:46:52
End at: 2018-02-13 05:47:22

# Below is generated by plot.py at 2018-02-13 09:54:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.575 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.575 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-02-13 06:01:21

End at: 2018-02-13 06:01:51

Below is generated by plot.py at 2018-02-13 09:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.928 ms

Loss rate: 0.00%

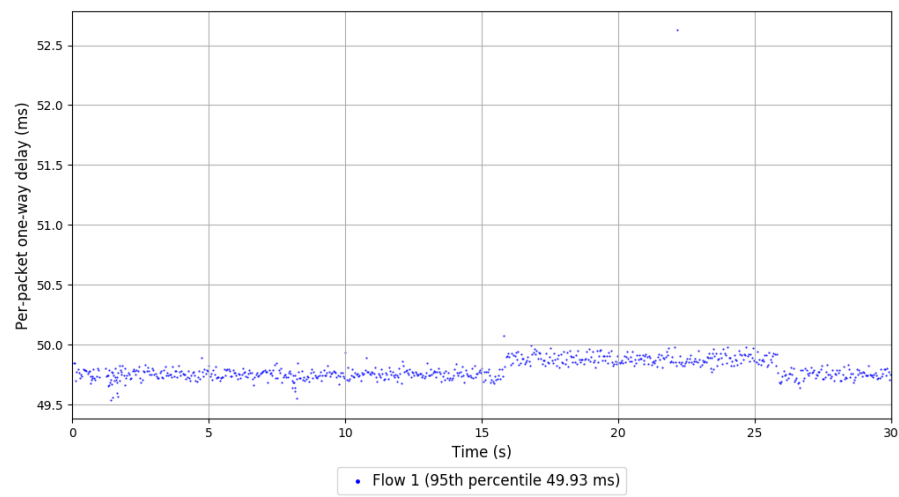
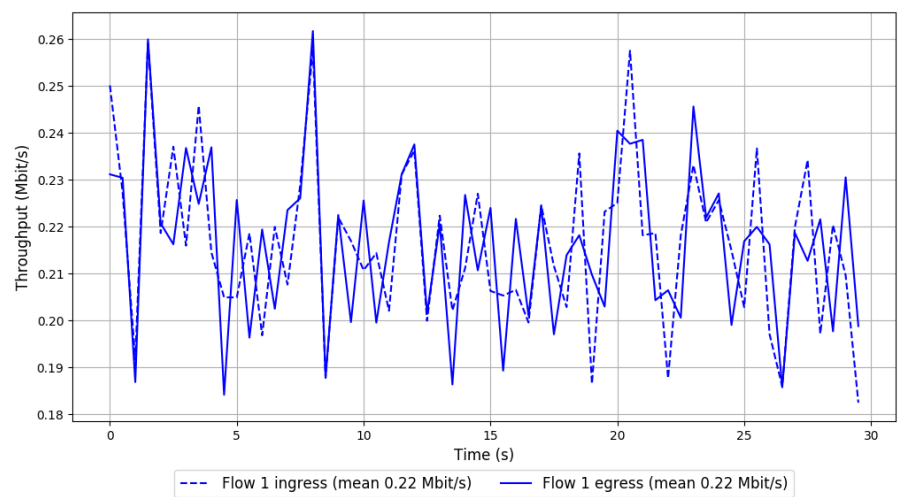
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.928 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-02-13 06:15:42

End at: 2018-02-13 06:16:12

Below is generated by plot.py at 2018-02-13 09:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 49.786 ms

Loss rate: 0.00%

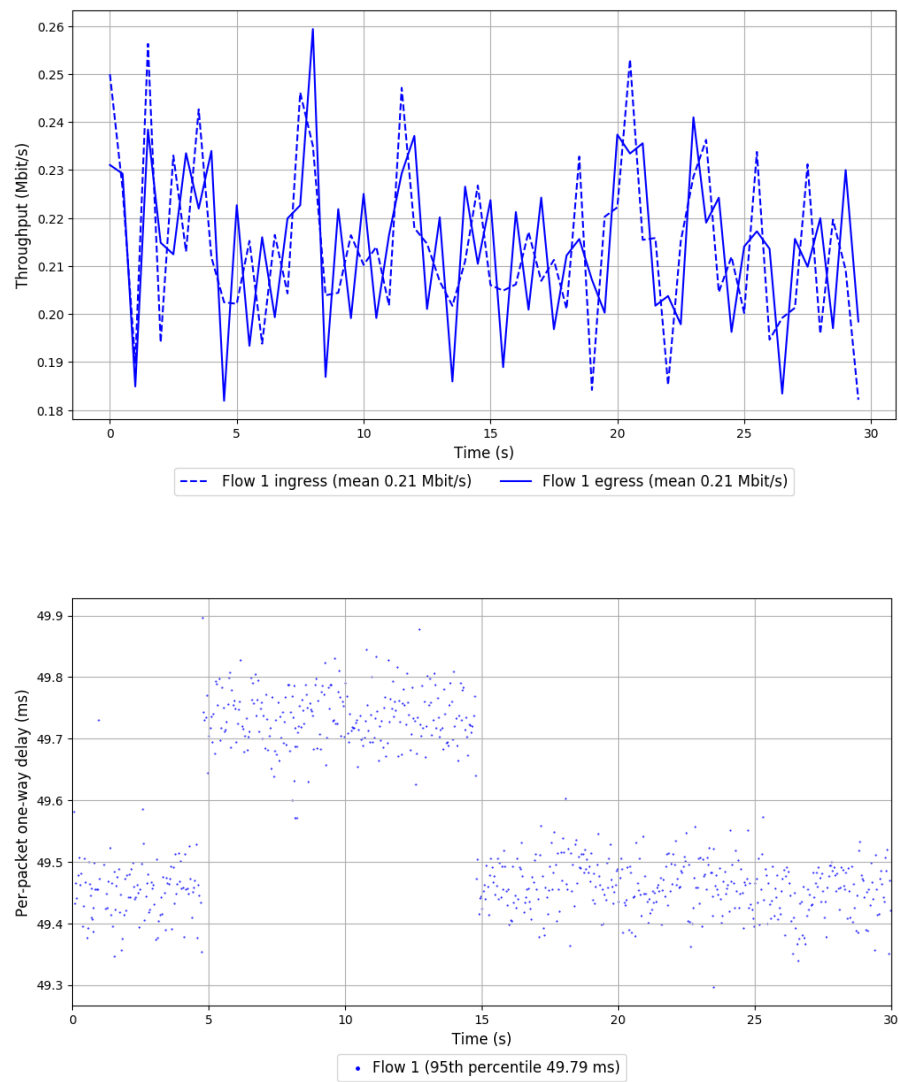
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 49.786 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

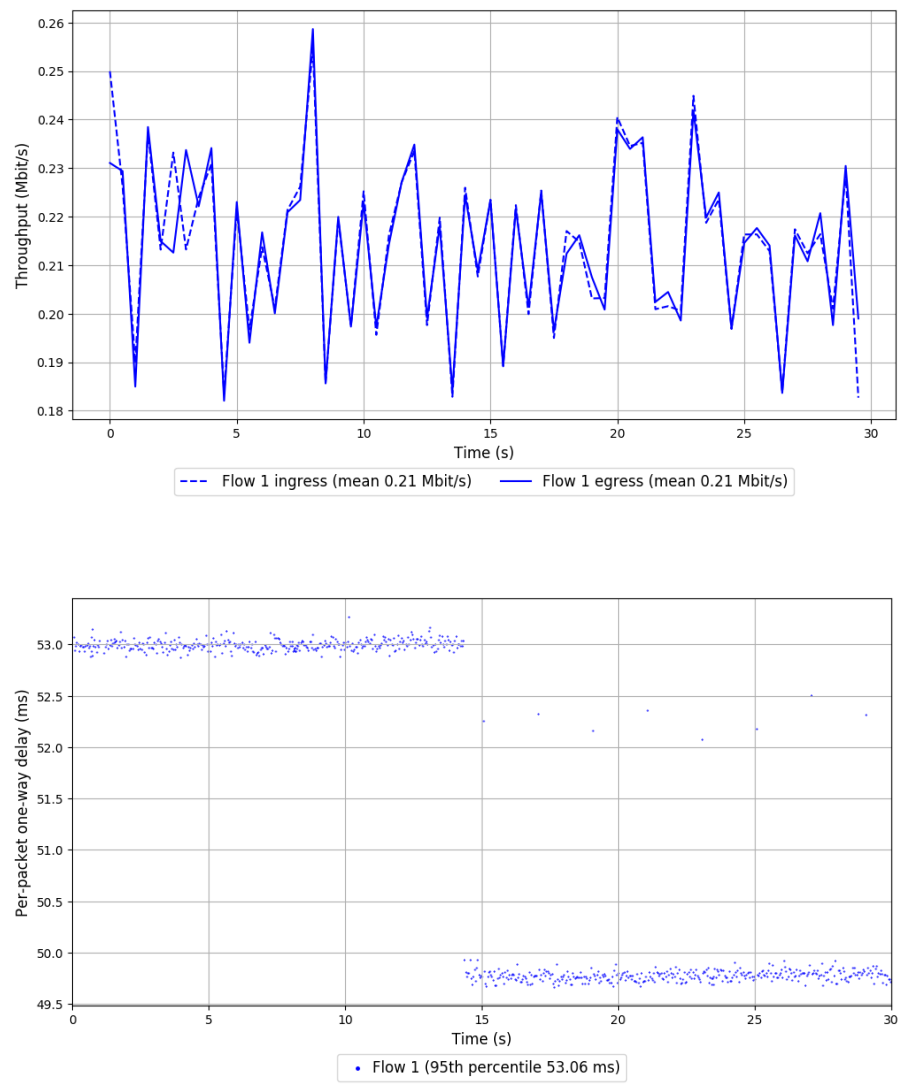


```
Run 5: Statistics of SCReAM

Start at: 2018-02-13 06:30:03
End at: 2018-02-13 06:30:33

# Below is generated by plot.py at 2018-02-13 09:54:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.060 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.060 ms
Loss rate: 0.00%
```

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-02-13 06:44:14

End at: 2018-02-13 06:44:44

Below is generated by plot.py at 2018-02-13 09:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.300 ms

Loss rate: 0.00%

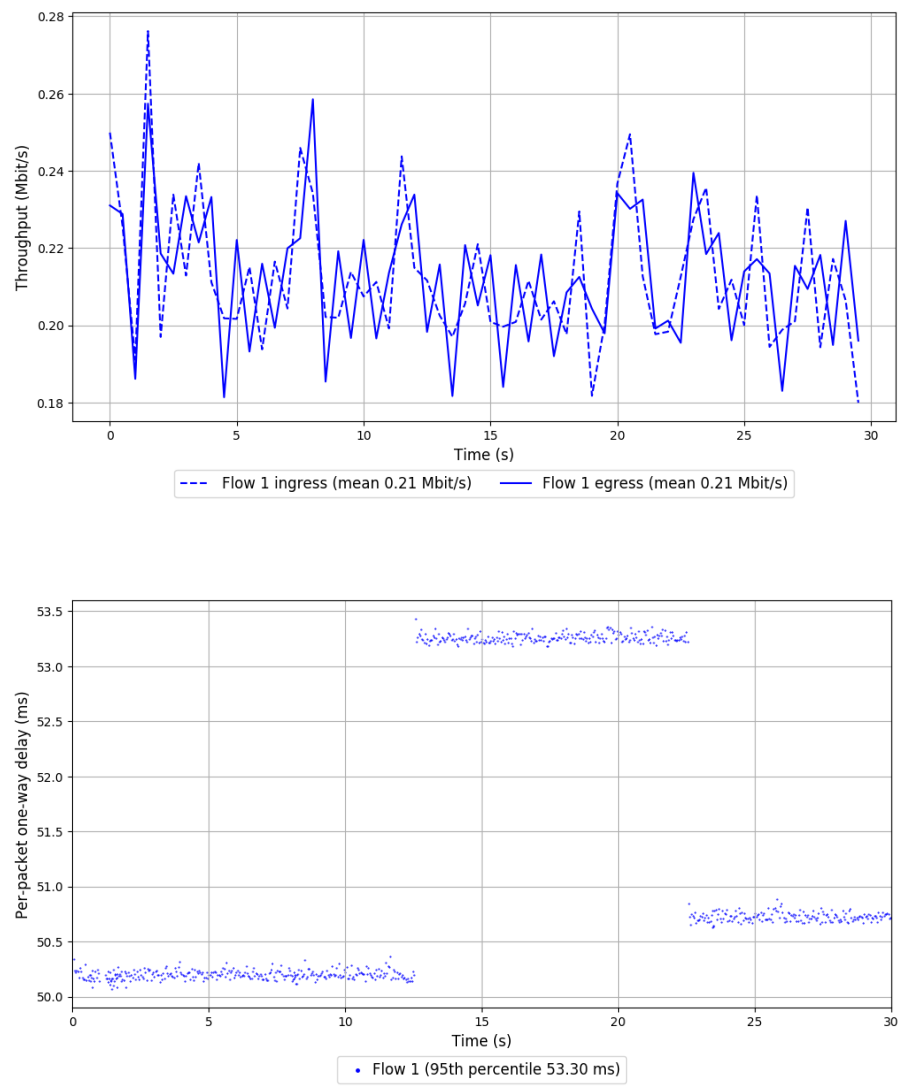
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.300 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-02-13 06:58:36

End at: 2018-02-13 06:59:06

Below is generated by plot.py at 2018-02-13 09:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.441 ms

Loss rate: 0.00%

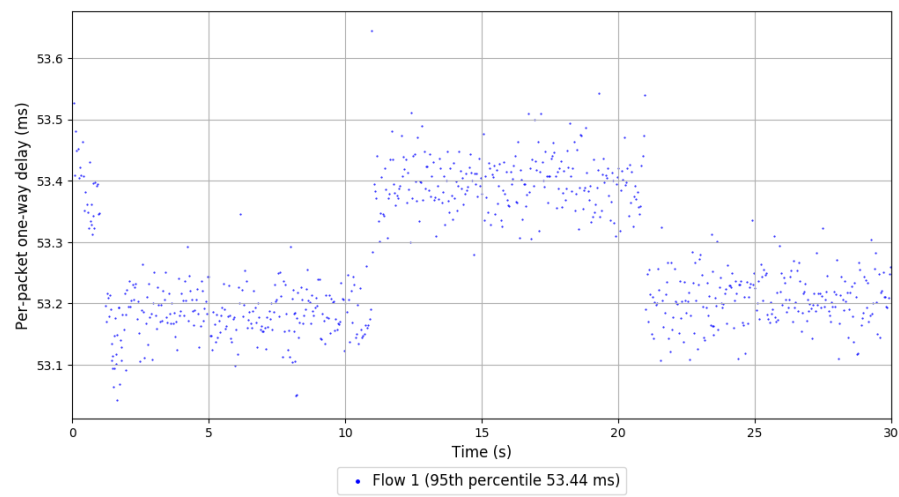
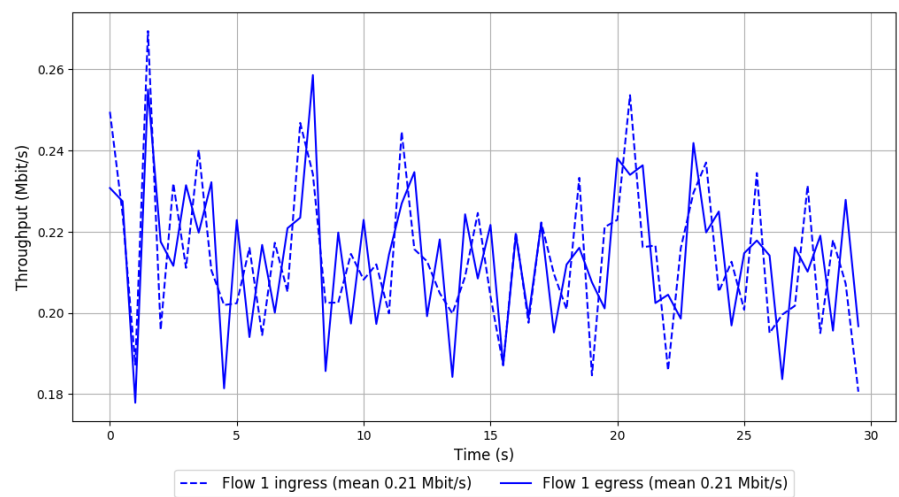
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.441 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-13 07:13:10

End at: 2018-02-13 07:13:40

Below is generated by plot.py at 2018-02-13 09:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 54.041 ms

Loss rate: 0.00%

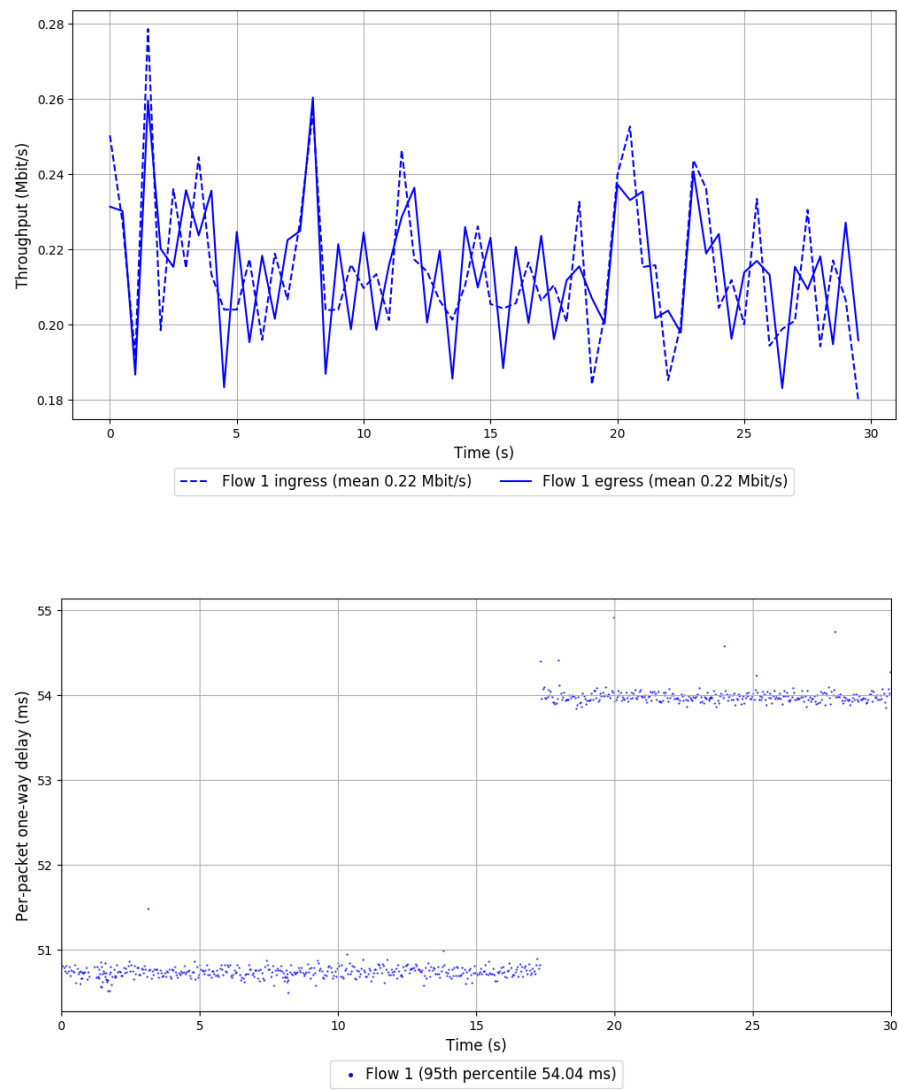
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 54.041 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-02-13 07:27:34

End at: 2018-02-13 07:28:04

Below is generated by plot.py at 2018-02-13 09:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.156 ms

Loss rate: 0.00%

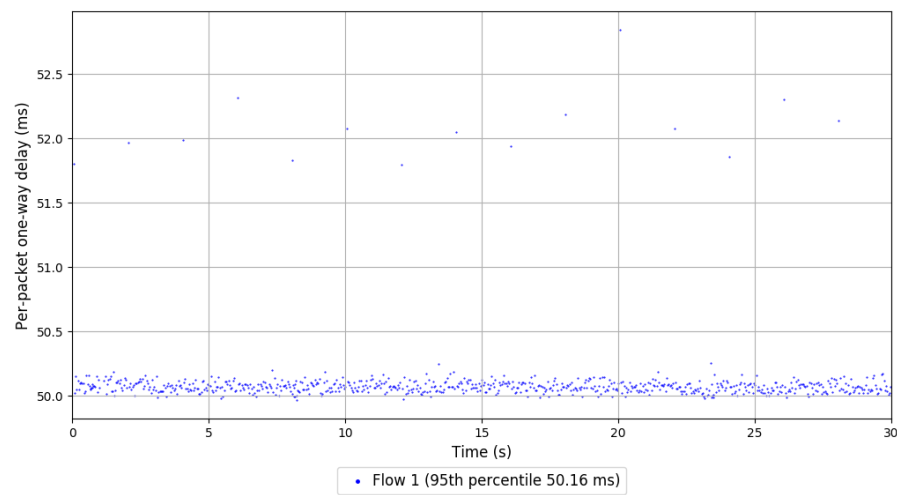
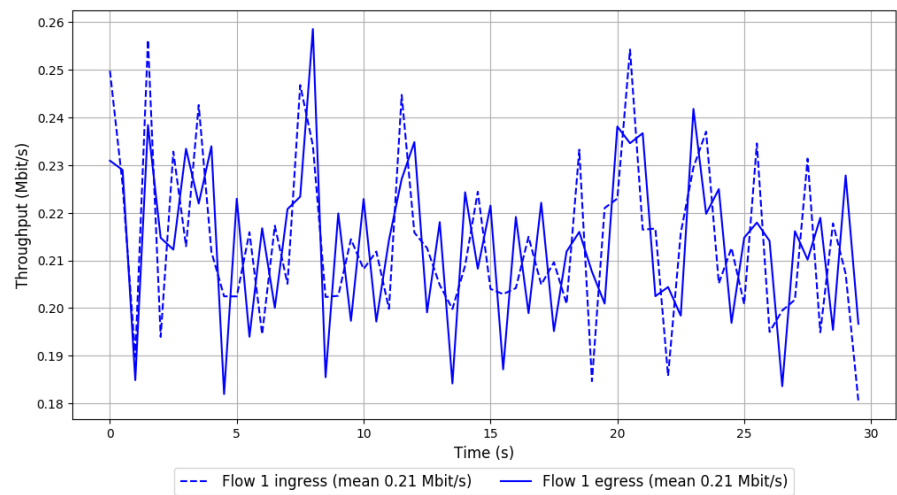
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.156 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-13 07:42:07

End at: 2018-02-13 07:42:37

Below is generated by plot.py at 2018-02-13 09:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.711 ms

Loss rate: 0.00%

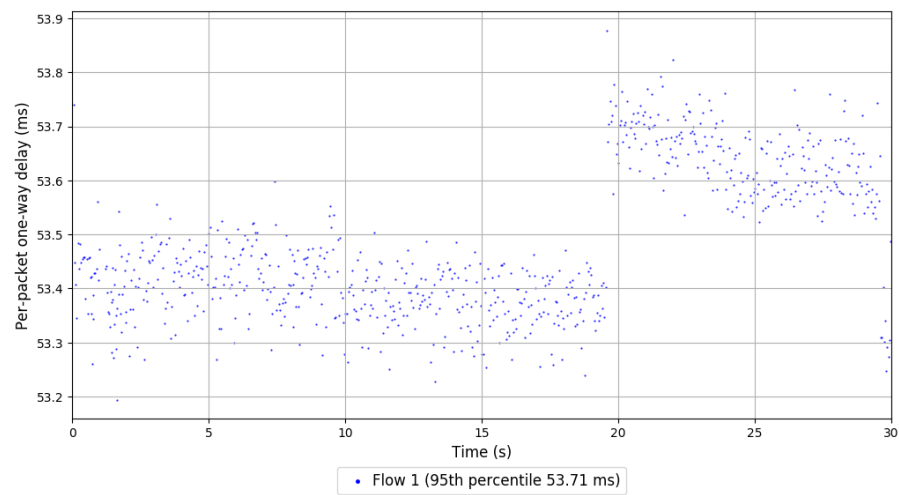
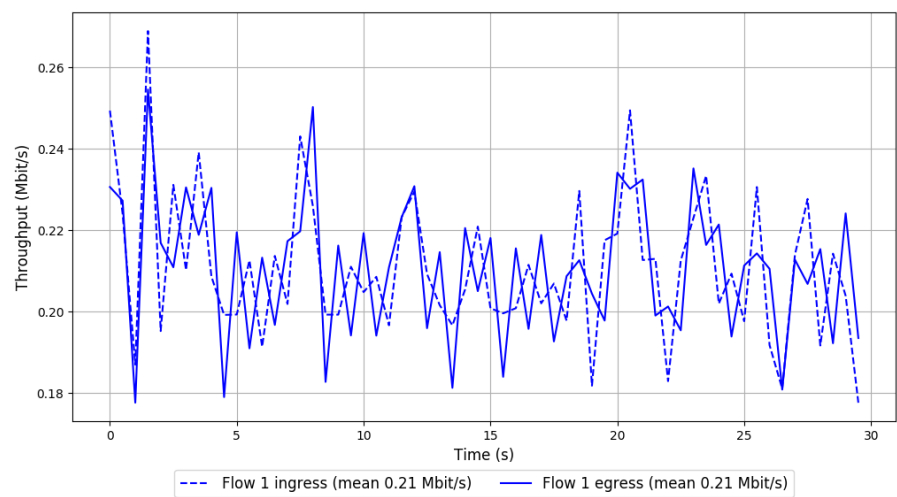
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.711 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

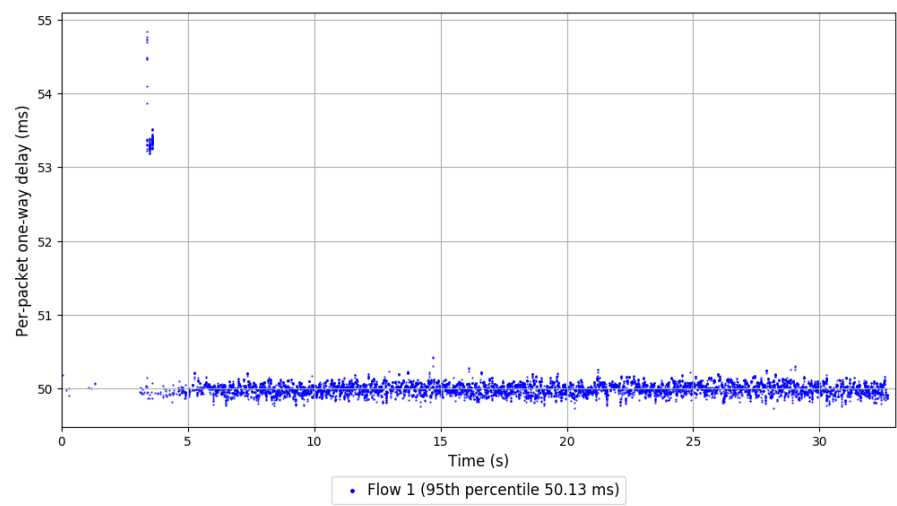
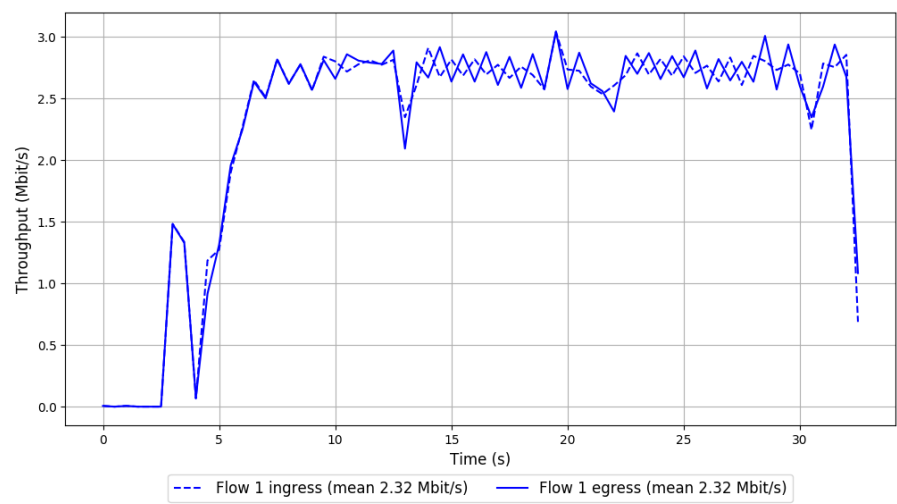


```
Run 1: Statistics of WebRTC media

Start at: 2018-02-13 05:45:12
End at: 2018-02-13 05:45:42

# Below is generated by plot.py at 2018-02-13 09:54:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 50.134 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 50.134 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link

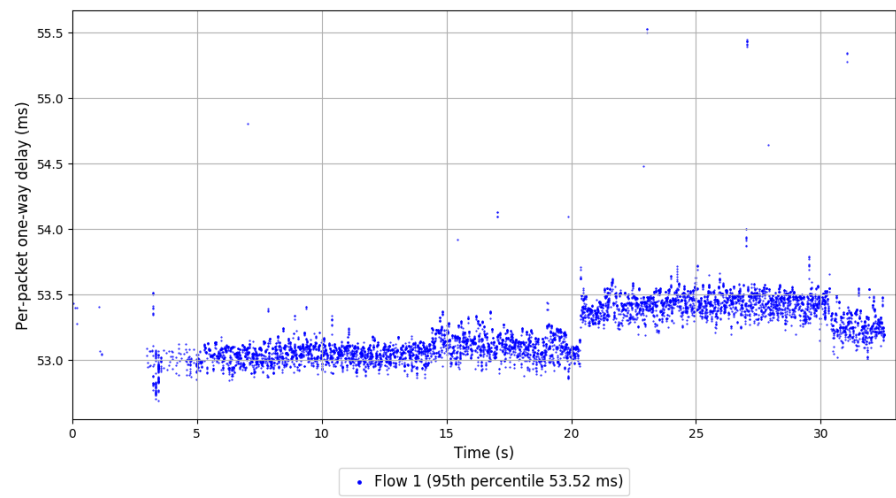
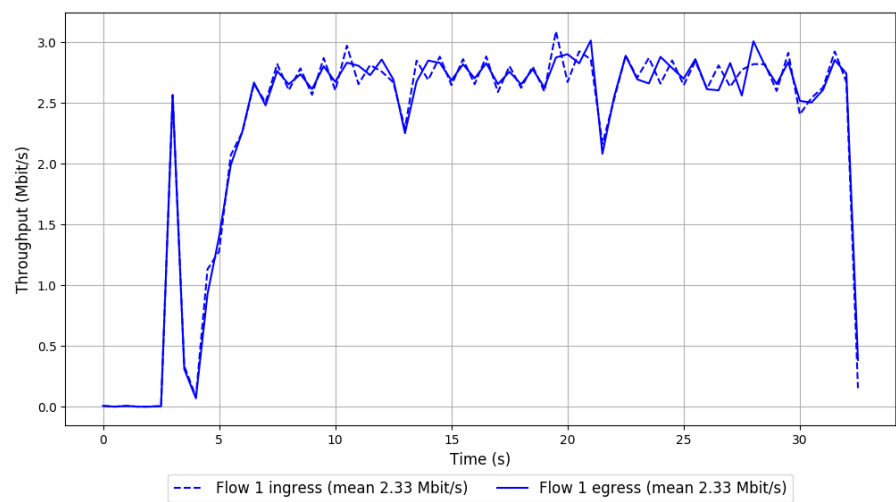


```
Run 2: Statistics of WebRTC media

Start at: 2018-02-13 05:59:39
End at: 2018-02-13 06:00:09

# Below is generated by plot.py at 2018-02-13 09:54:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 53.523 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 53.523 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-13 06:14:05

End at: 2018-02-13 06:14:35

Below is generated by plot.py at 2018-02-13 09:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.065 ms

Loss rate: 0.00%

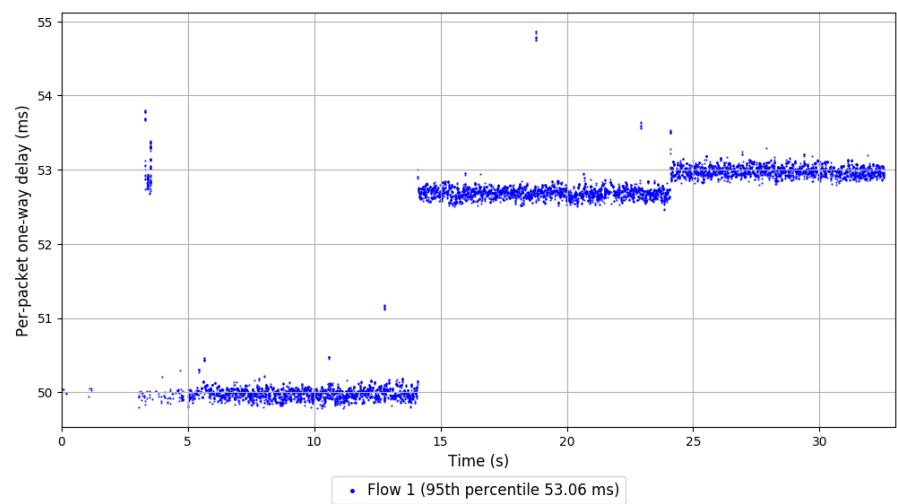
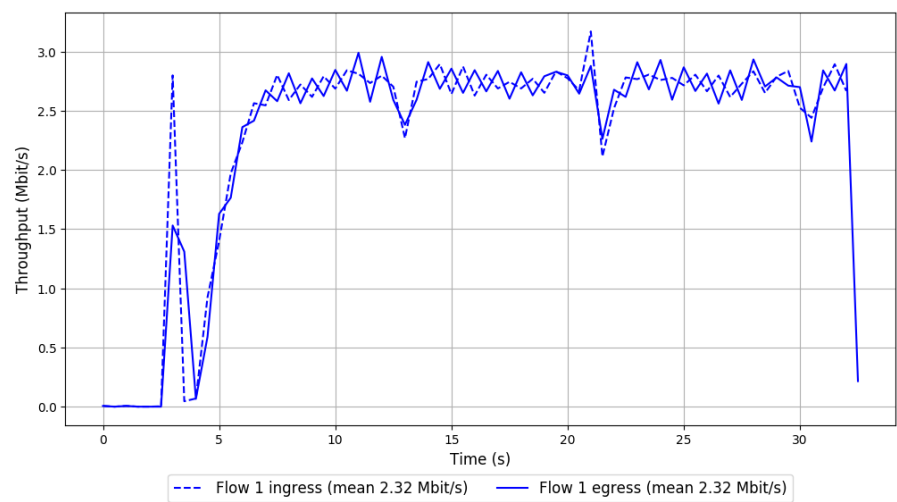
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.065 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-13 06:28:24

End at: 2018-02-13 06:28:54

Below is generated by plot.py at 2018-02-13 09:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.53 Mbit/s

95th percentile per-packet one-way delay: 52.935 ms

Loss rate: 0.00%

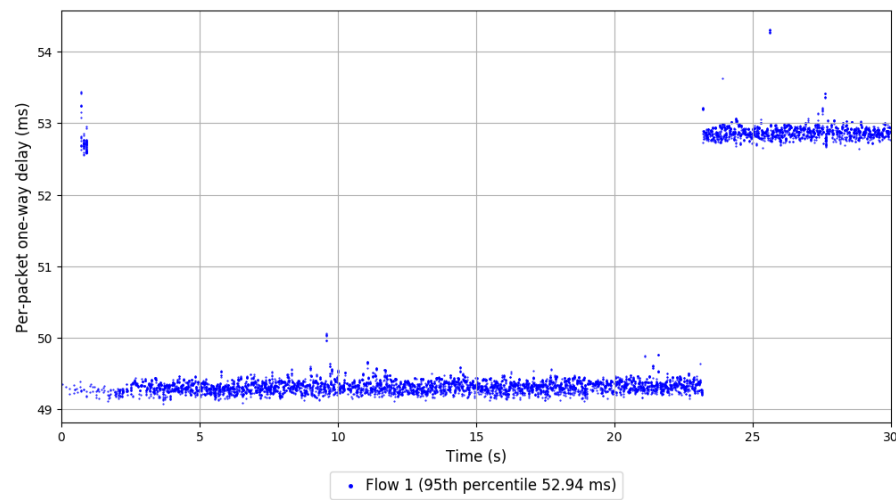
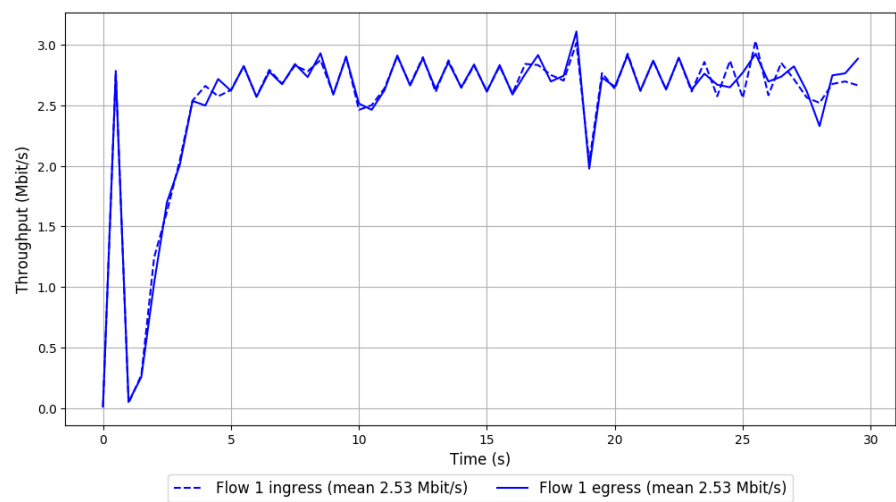
-- Flow 1:

Average throughput: 2.53 Mbit/s

95th percentile per-packet one-way delay: 52.935 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-13 06:42:34

End at: 2018-02-13 06:43:04

Below is generated by plot.py at 2018-02-13 09:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 53.302 ms

Loss rate: 0.00%

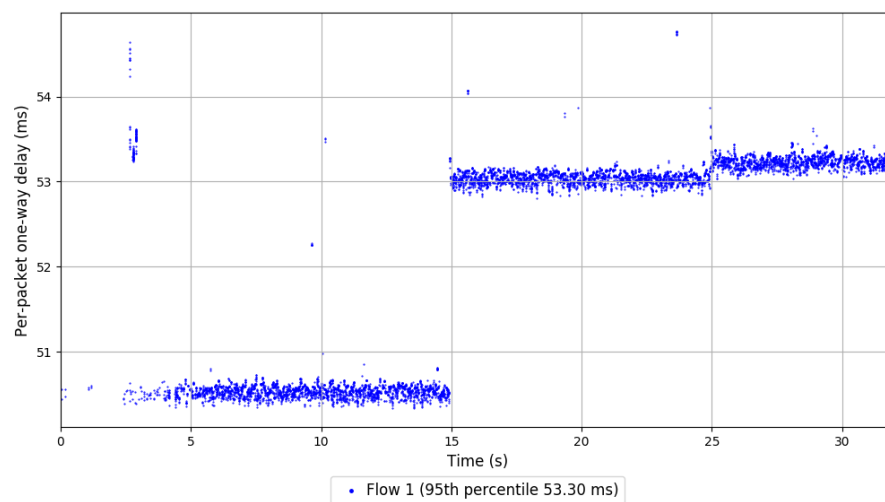
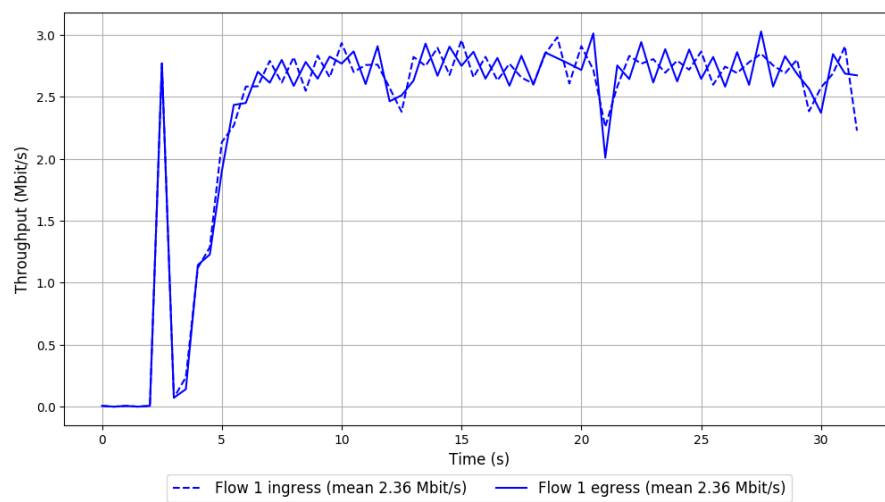
-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 53.302 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-13 06:56:56

End at: 2018-02-13 06:57:26

Below is generated by plot.py at 2018-02-13 09:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 50.744 ms

Loss rate: 0.00%

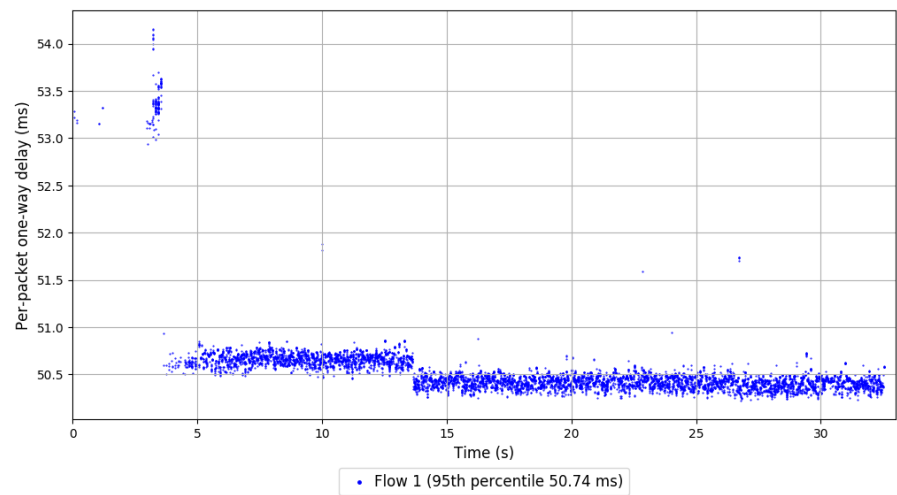
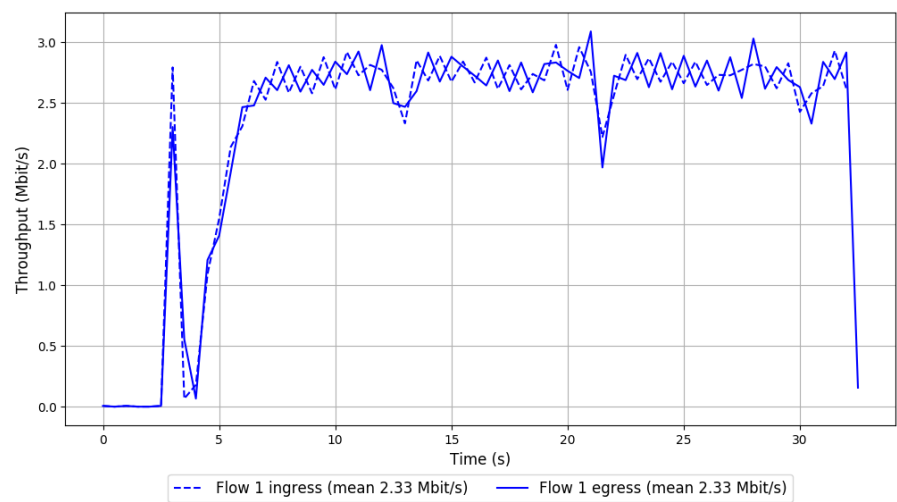
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 50.744 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-13 07:11:31

End at: 2018-02-13 07:12:01

Below is generated by plot.py at 2018-02-13 09:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 50.478 ms

Loss rate: 0.00%

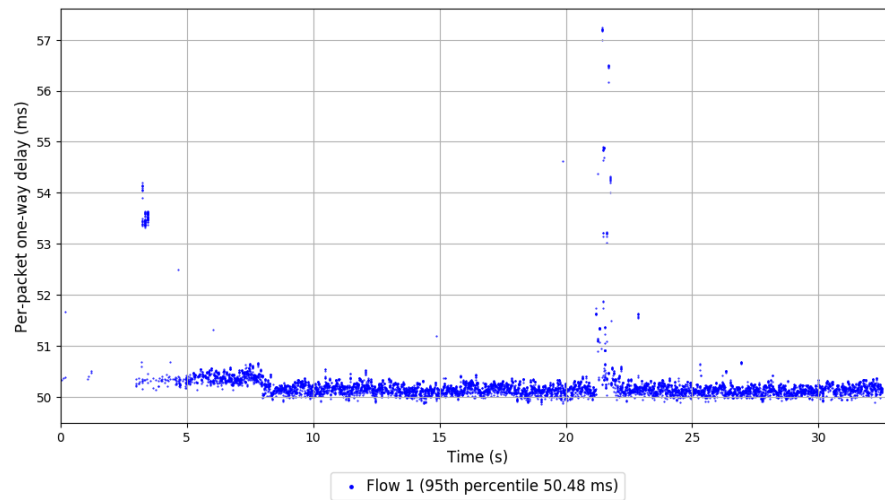
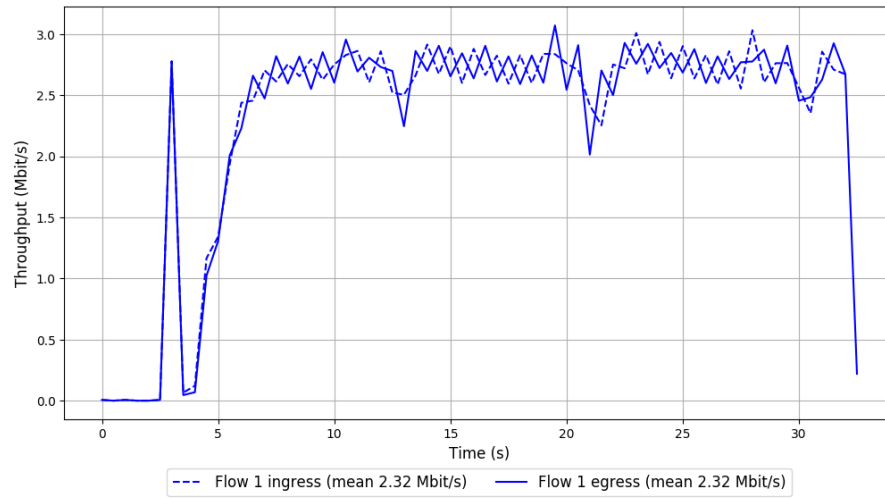
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 50.478 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-13 07:25:51

End at: 2018-02-13 07:26:21

Below is generated by plot.py at 2018-02-13 09:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 50.777 ms

Loss rate: 0.00%

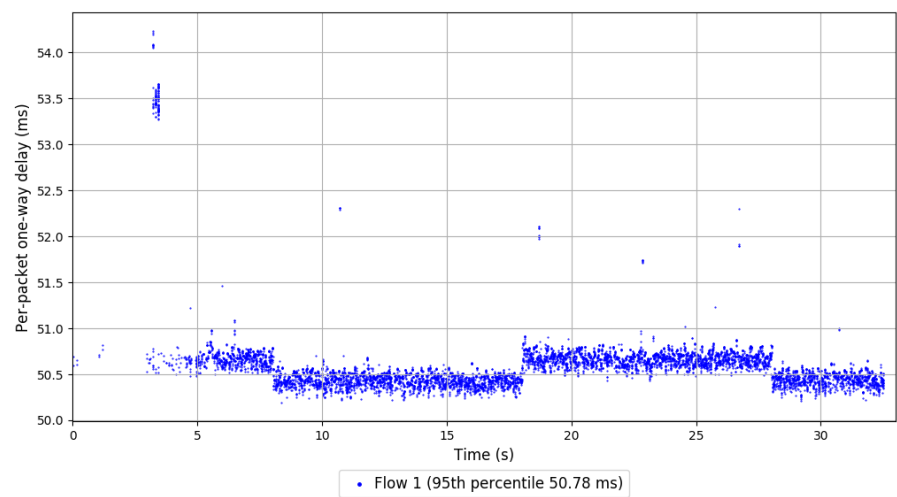
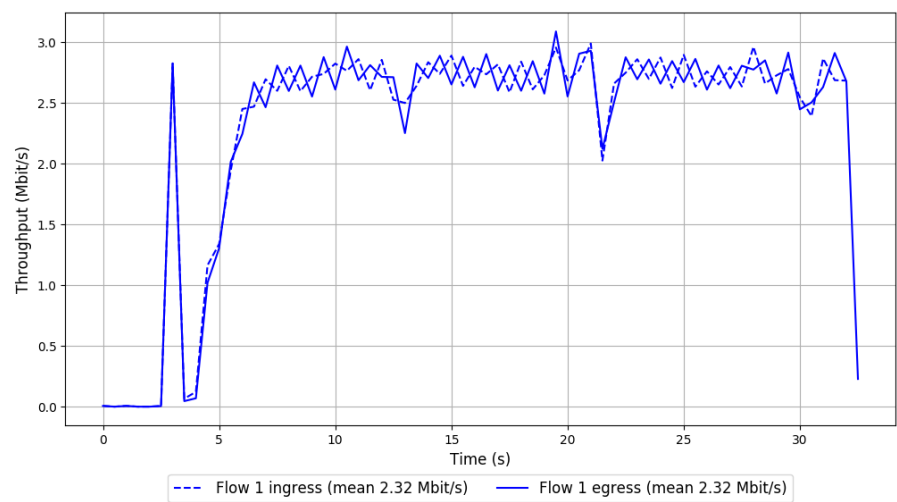
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 50.777 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-13 07:40:31

End at: 2018-02-13 07:41:01

Below is generated by plot.py at 2018-02-13 09:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 53.828 ms

Loss rate: 0.00%

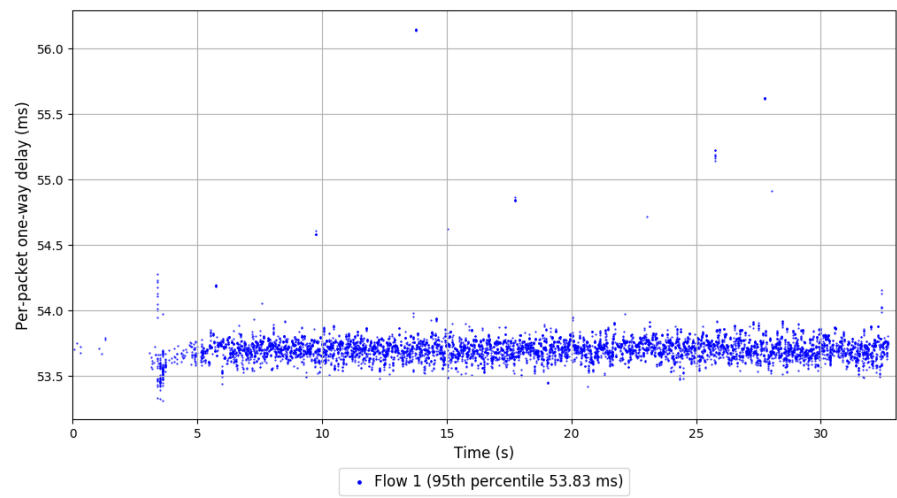
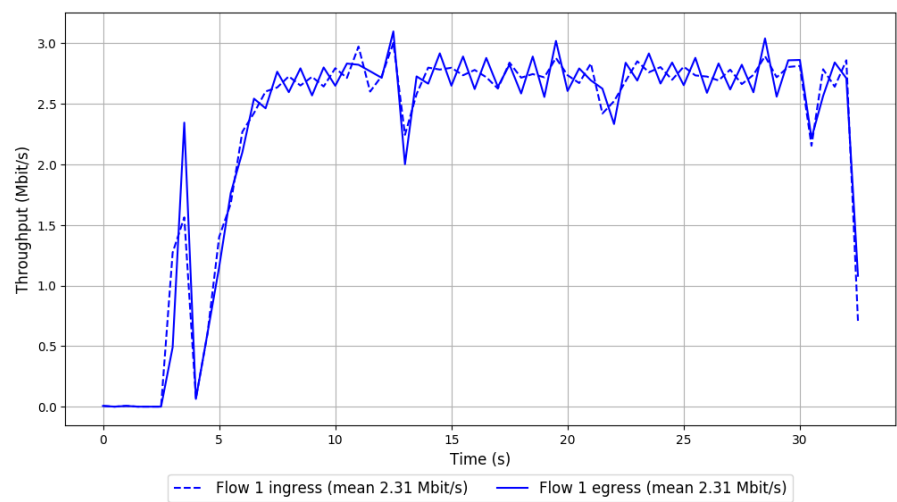
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 53.828 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-13 07:54:54

End at: 2018-02-13 07:55:24

Below is generated by plot.py at 2018-02-13 09:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 50.461 ms

Loss rate: 0.00%

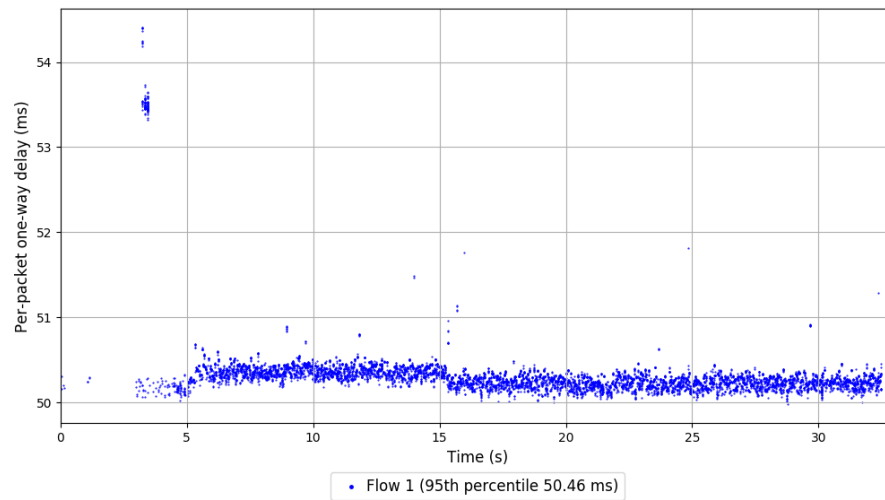
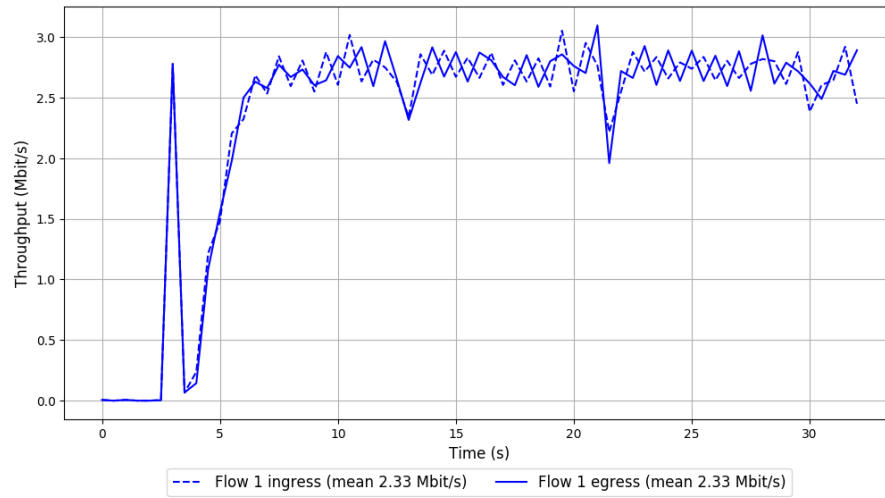
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 50.461 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

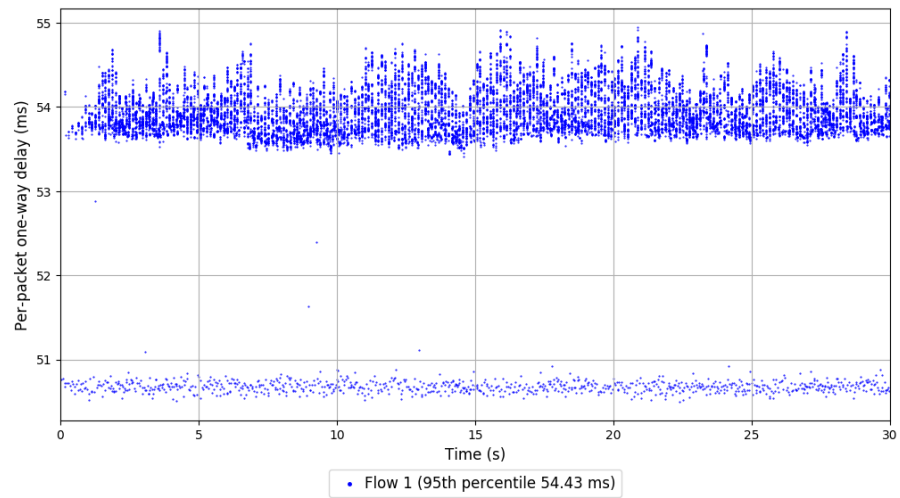
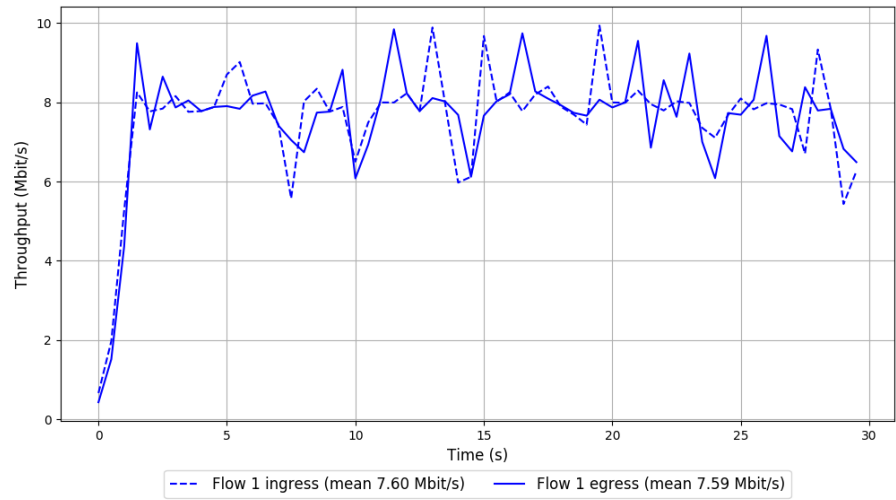


```
Run 1: Statistics of Sprout

Start at: 2018-02-13 05:34:50
End at: 2018-02-13 05:35:20

# Below is generated by plot.py at 2018-02-13 09:54:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.59 Mbit/s
95th percentile per-packet one-way delay: 54.434 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 7.59 Mbit/s
95th percentile per-packet one-way delay: 54.434 ms
Loss rate: 0.03%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-13 05:49:15

End at: 2018-02-13 05:49:45

Below is generated by plot.py at 2018-02-13 09:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.79 Mbit/s

95th percentile per-packet one-way delay: 53.830 ms

Loss rate: 0.06%

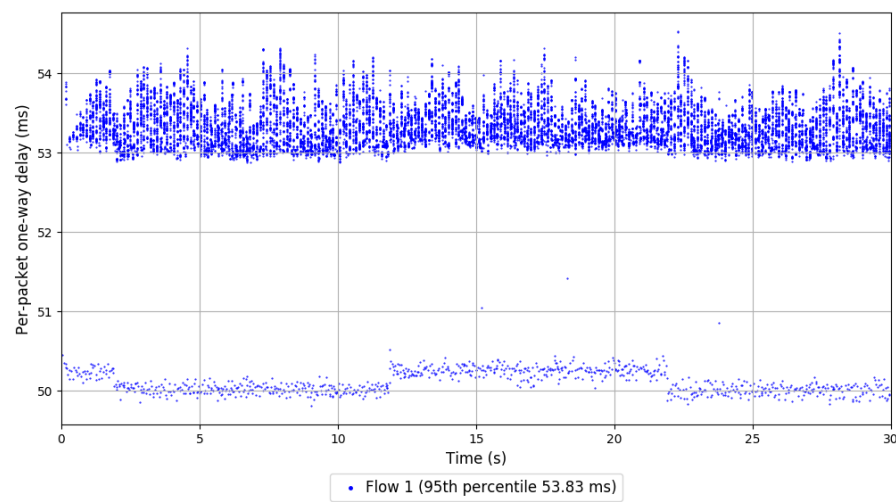
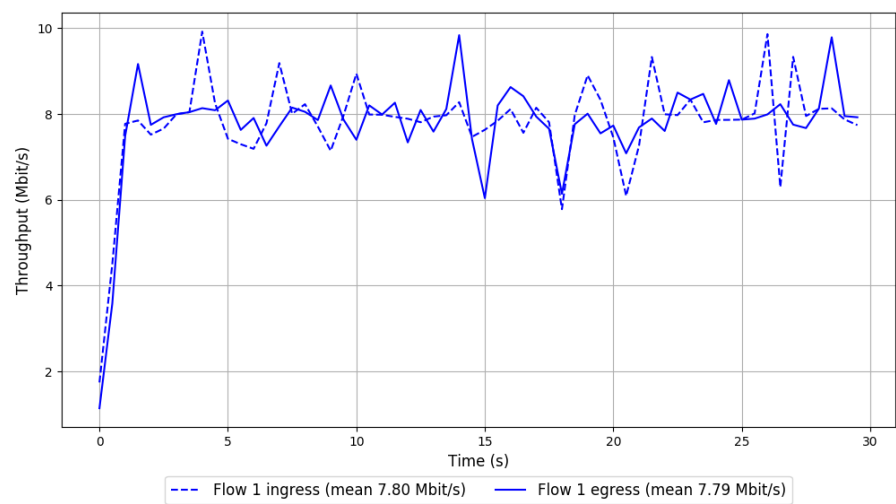
-- Flow 1:

Average throughput: 7.79 Mbit/s

95th percentile per-packet one-way delay: 53.830 ms

Loss rate: 0.06%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-13 06:03:41

End at: 2018-02-13 06:04:11

Below is generated by plot.py at 2018-02-13 09:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 53.744 ms

Loss rate: 0.32%

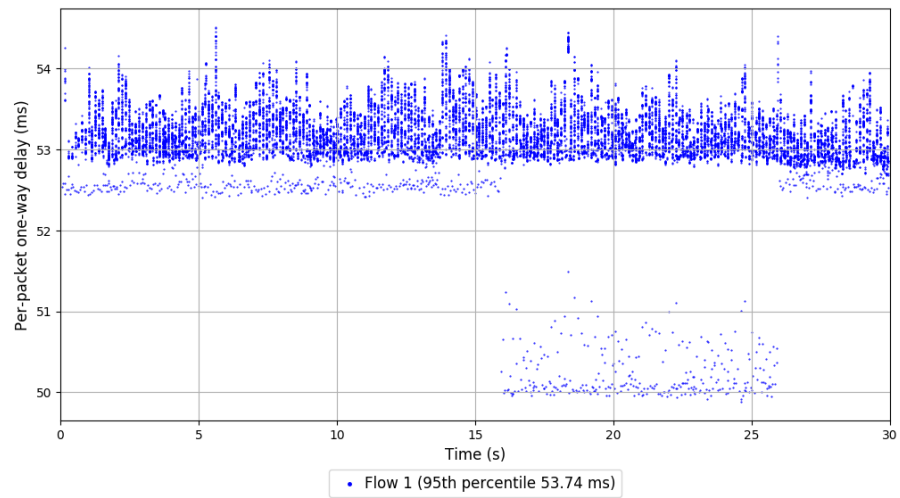
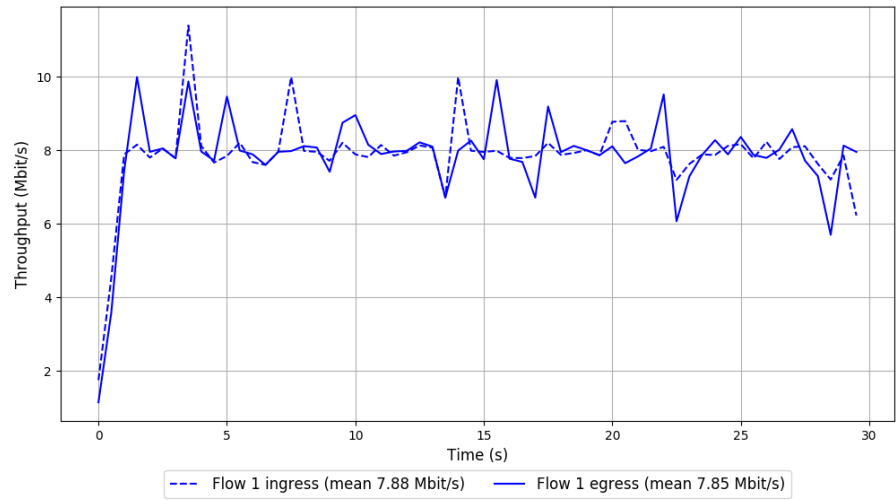
-- Flow 1:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 53.744 ms

Loss rate: 0.32%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-13 06:18:03

End at: 2018-02-13 06:18:33

Below is generated by plot.py at 2018-02-13 09:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 53.615 ms

Loss rate: 0.04%

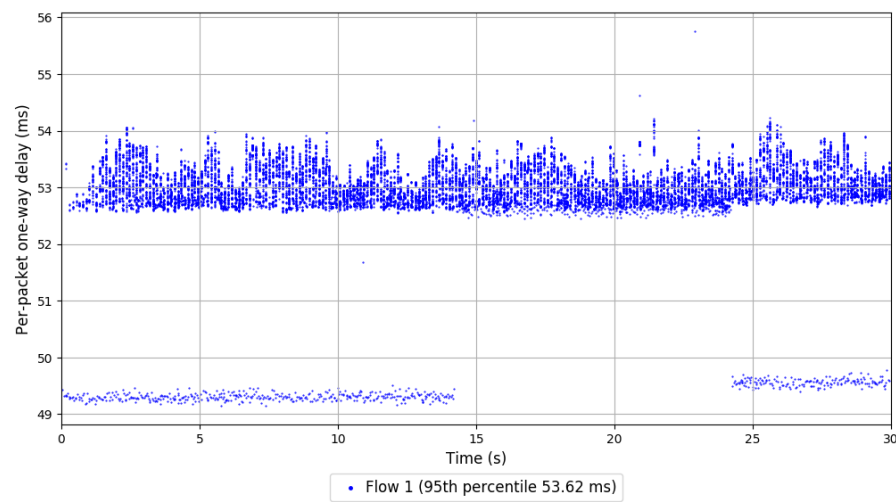
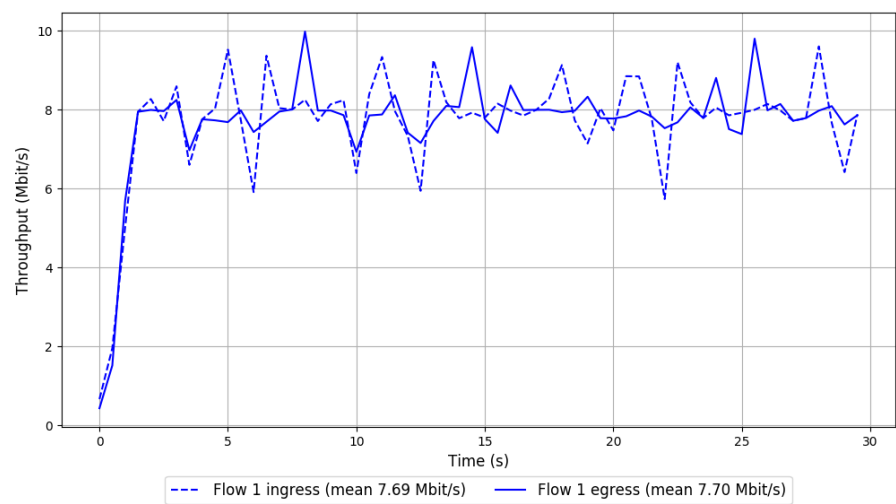
-- Flow 1:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 53.615 ms

Loss rate: 0.04%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-13 06:32:20

End at: 2018-02-13 06:32:50

Below is generated by plot.py at 2018-02-13 09:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 53.847 ms

Loss rate: 0.07%

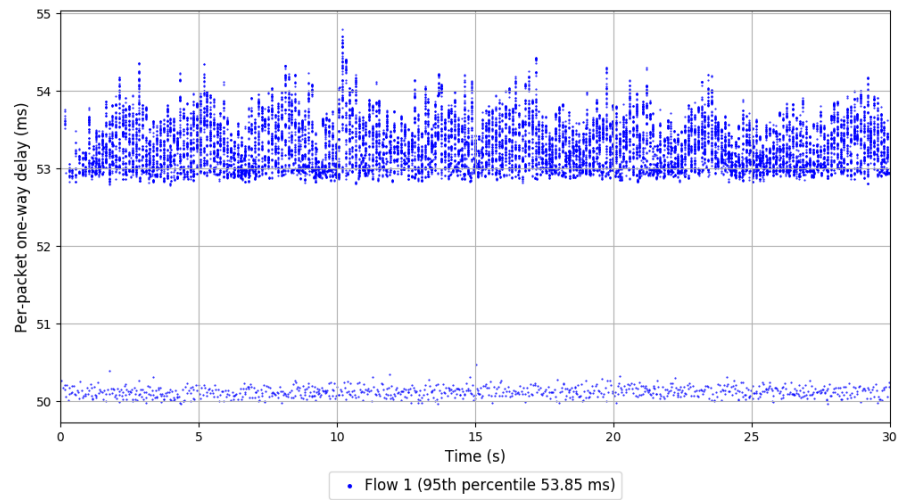
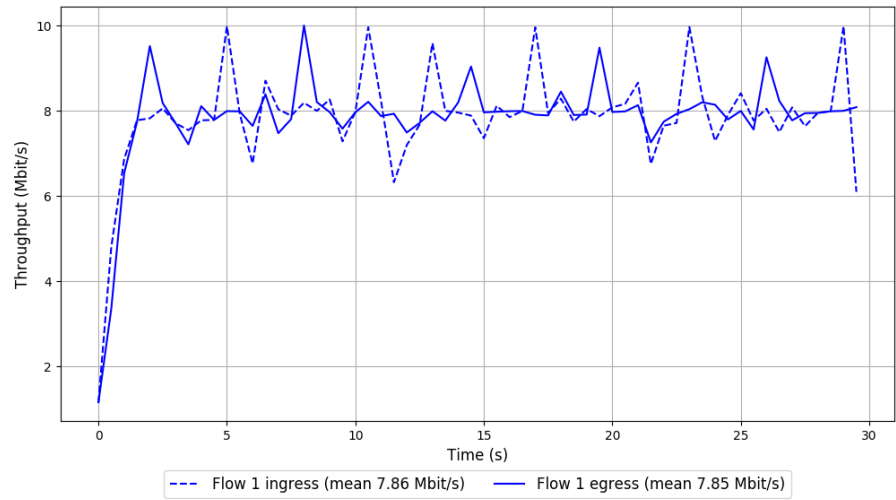
-- Flow 1:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 53.847 ms

Loss rate: 0.07%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-13 06:46:34

End at: 2018-02-13 06:47:04

Below is generated by plot.py at 2018-02-13 09:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.73 Mbit/s

95th percentile per-packet one-way delay: 54.151 ms

Loss rate: 0.08%

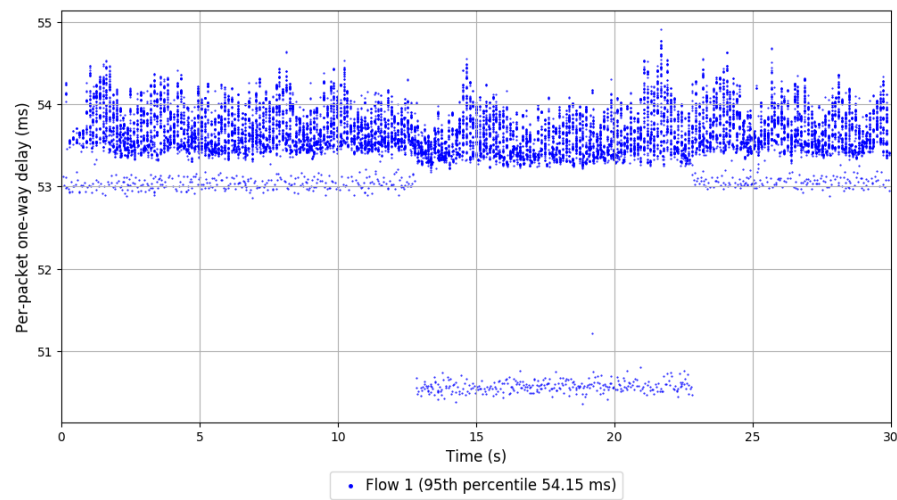
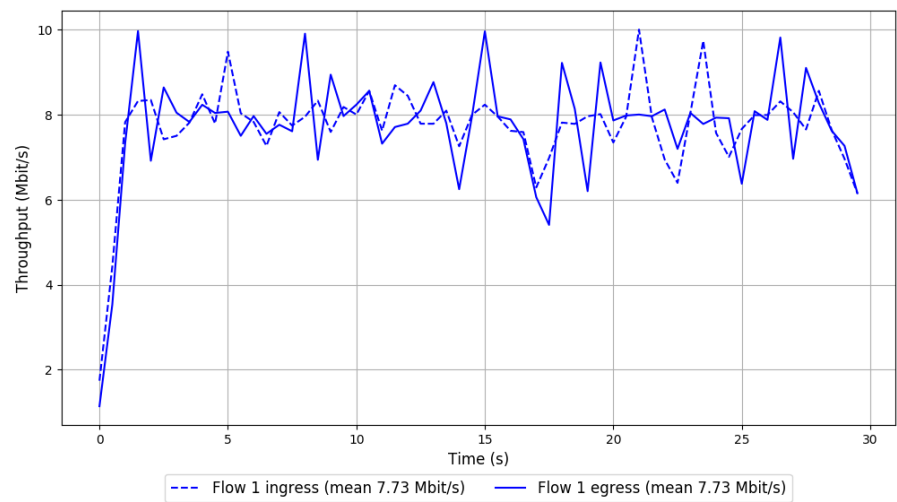
-- Flow 1:

Average throughput: 7.73 Mbit/s

95th percentile per-packet one-way delay: 54.151 ms

Loss rate: 0.08%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-13 07:00:54

End at: 2018-02-13 07:01:24

Below is generated by plot.py at 2018-02-13 09:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.64 Mbit/s

95th percentile per-packet one-way delay: 54.323 ms

Loss rate: 0.05%

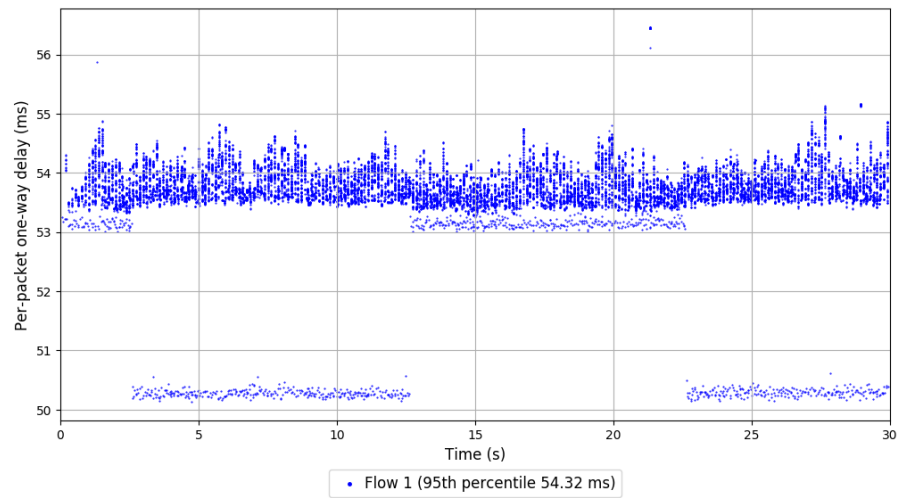
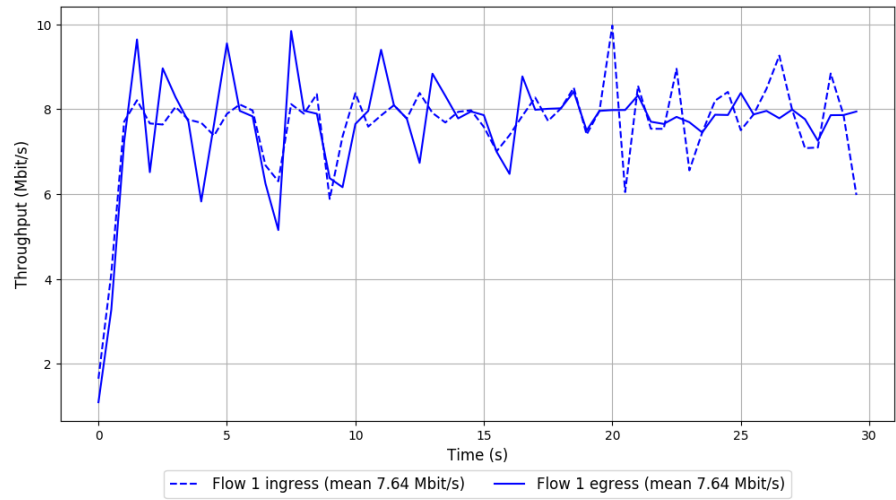
-- Flow 1:

Average throughput: 7.64 Mbit/s

95th percentile per-packet one-way delay: 54.323 ms

Loss rate: 0.05%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-13 07:15:30

End at: 2018-02-13 07:16:00

Below is generated by plot.py at 2018-02-13 09:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 54.237 ms

Loss rate: 0.04%

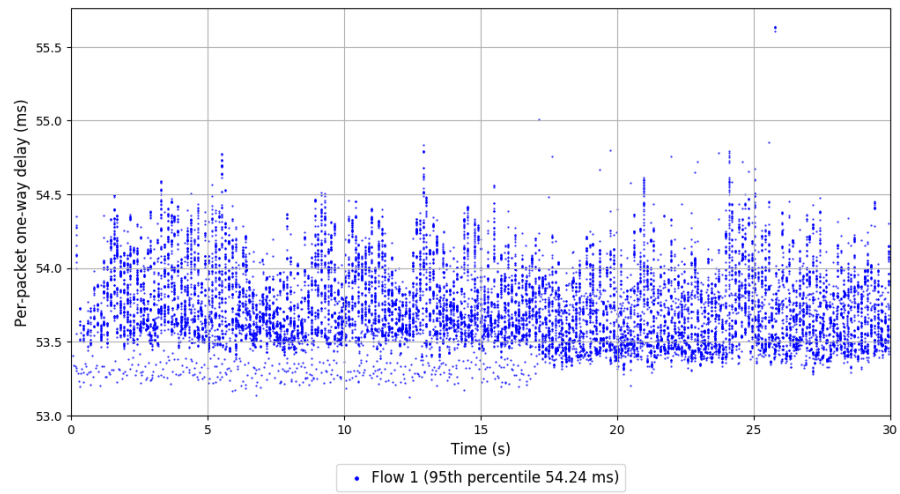
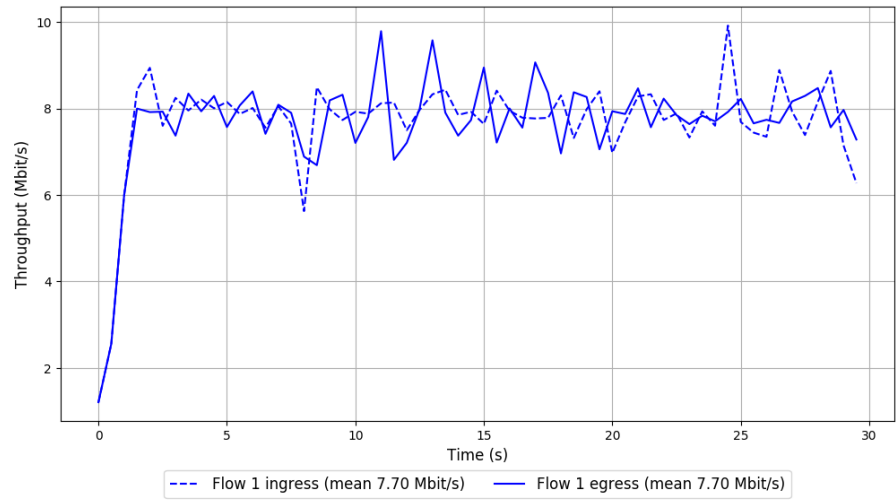
-- Flow 1:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 54.237 ms

Loss rate: 0.04%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-13 07:29:51

End at: 2018-02-13 07:30:21

Below is generated by plot.py at 2018-02-13 09:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 54.359 ms

Loss rate: 0.00%

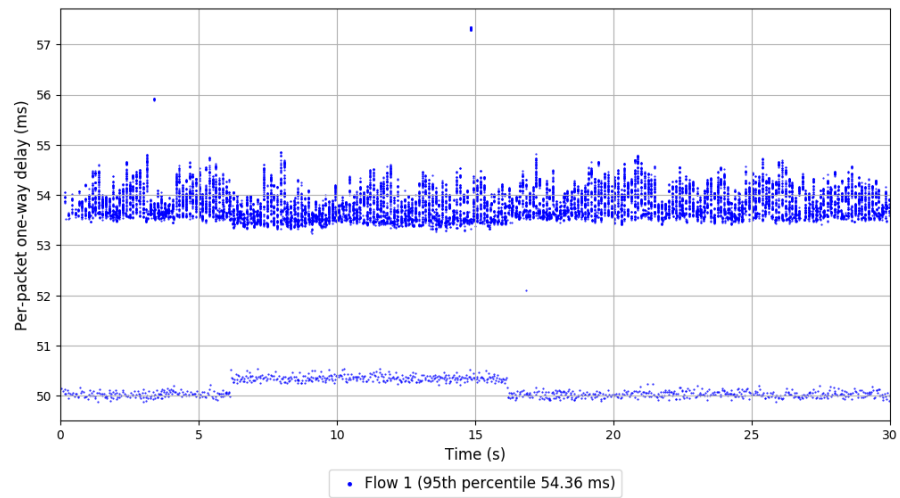
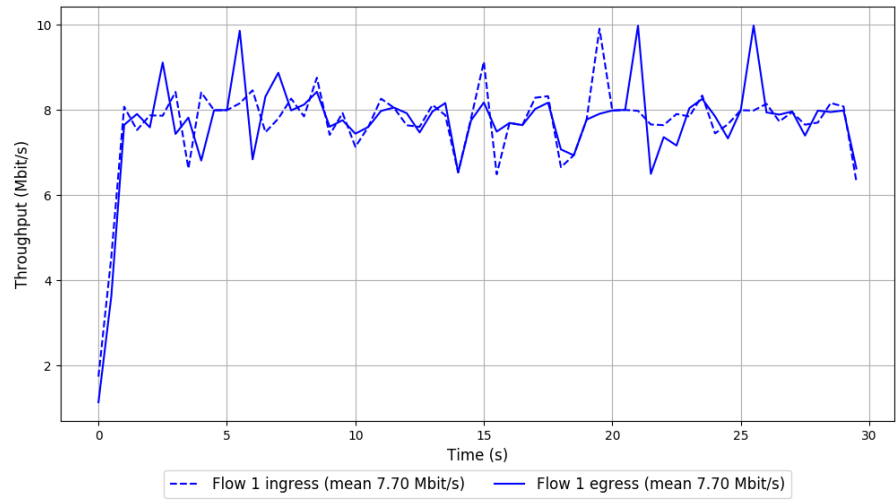
-- Flow 1:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 54.359 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-13 07:44:27

End at: 2018-02-13 07:44:57

Below is generated by plot.py at 2018-02-13 09:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 54.221 ms

Loss rate: 0.05%

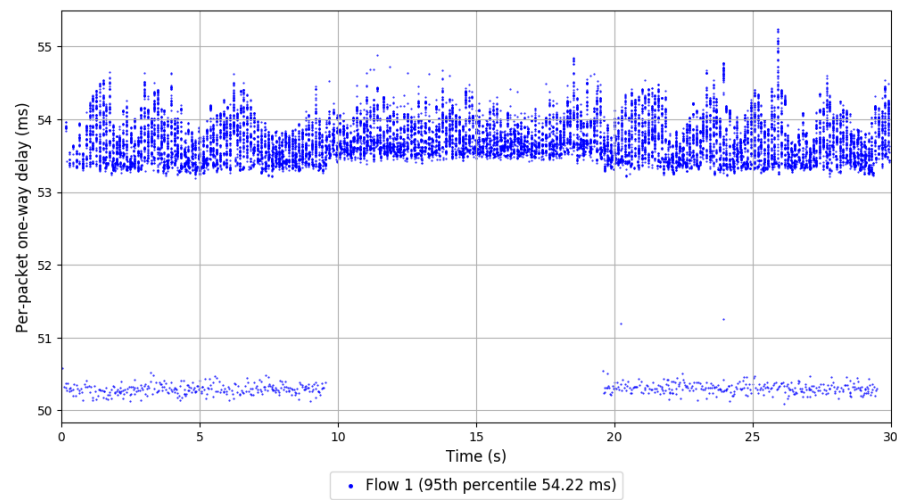
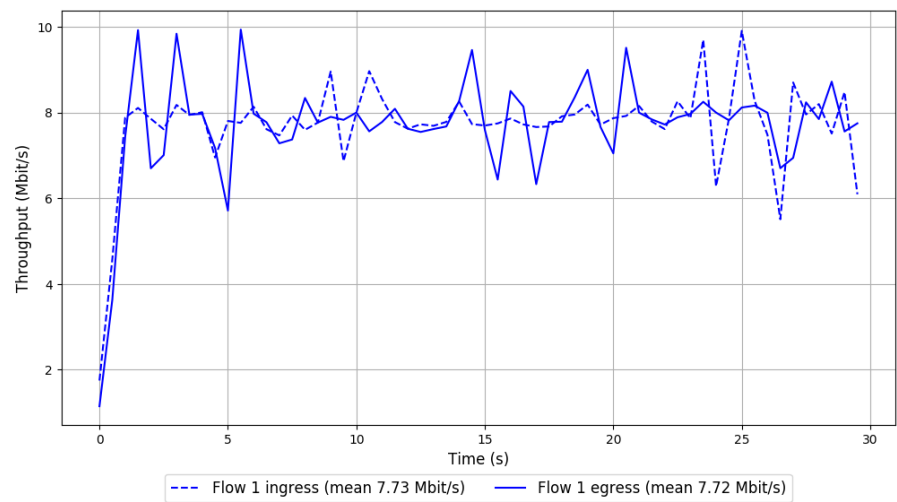
-- Flow 1:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 54.221 ms

Loss rate: 0.05%

Run 10: Report of Sprout — Data Link

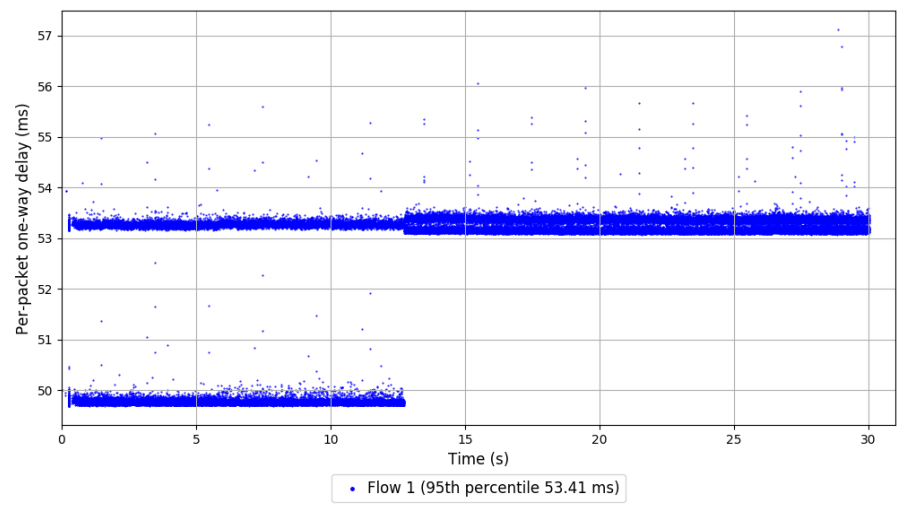
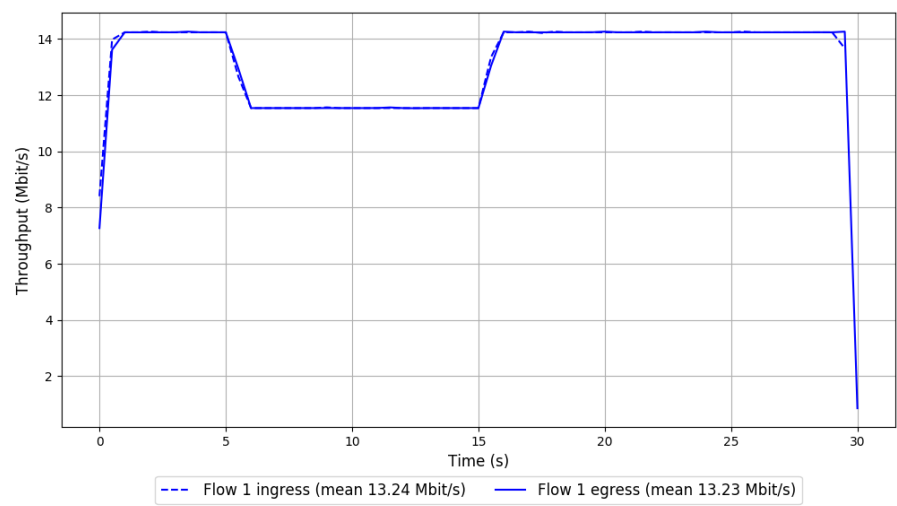


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-13 05:44:34
End at: 2018-02-13 05:45:04

# Below is generated by plot.py at 2018-02-13 09:54:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.23 Mbit/s
95th percentile per-packet one-way delay: 53.415 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 13.23 Mbit/s
95th percentile per-packet one-way delay: 53.415 ms
Loss rate: 0.01%
```


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

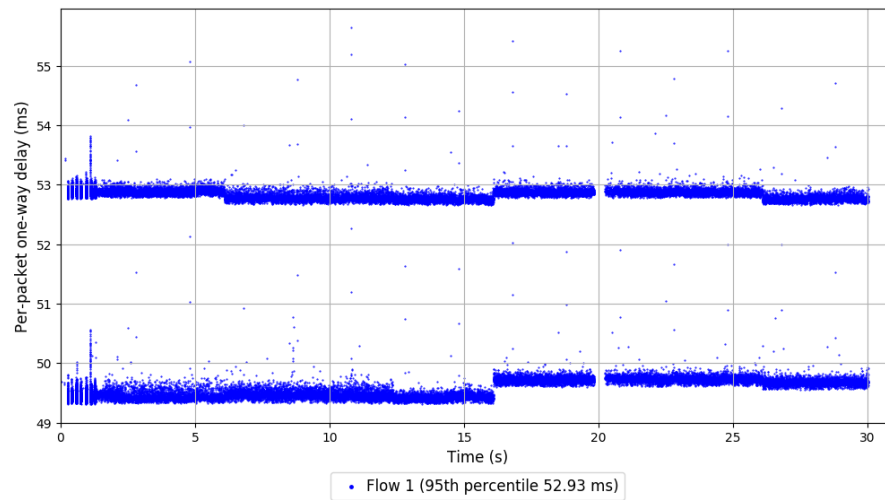
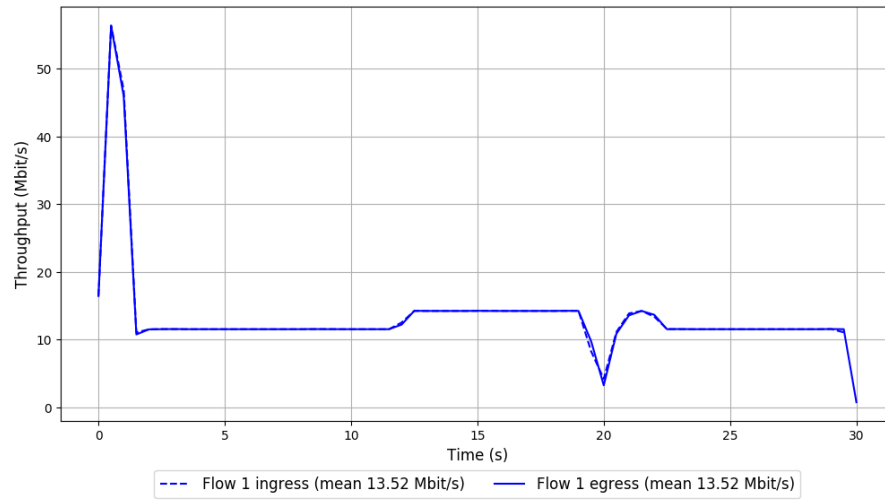


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-13 05:59:01
End at: 2018-02-13 05:59:31

# Below is generated by plot.py at 2018-02-13 09:54:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.52 Mbit/s
95th percentile per-packet one-way delay: 52.930 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.52 Mbit/s
95th percentile per-packet one-way delay: 52.930 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-02-13 06:13:27

End at: 2018-02-13 06:13:57

Below is generated by plot.py at 2018-02-13 09:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.99 Mbit/s

95th percentile per-packet one-way delay: 52.684 ms

Loss rate: 0.01%

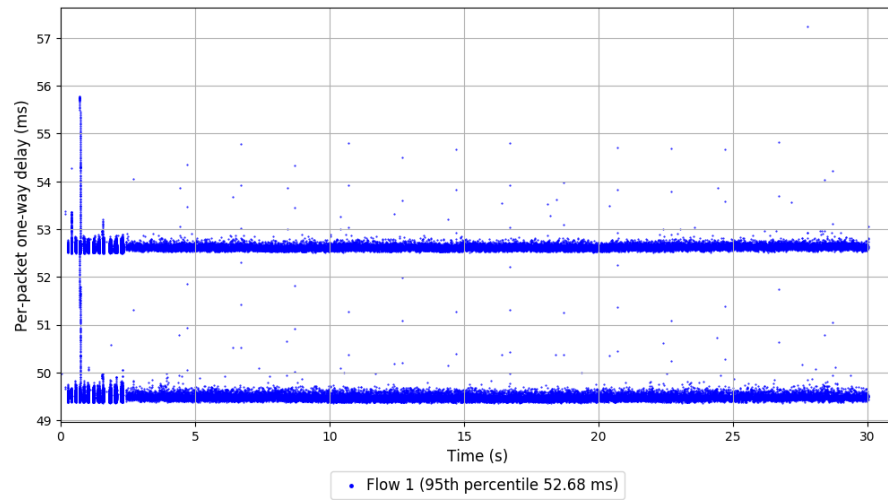
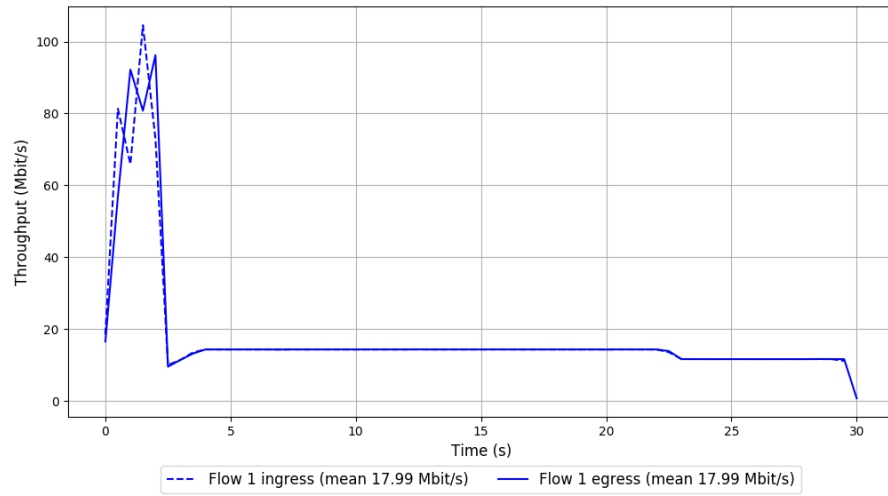
-- Flow 1:

Average throughput: 17.99 Mbit/s

95th percentile per-packet one-way delay: 52.684 ms

Loss rate: 0.01%

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

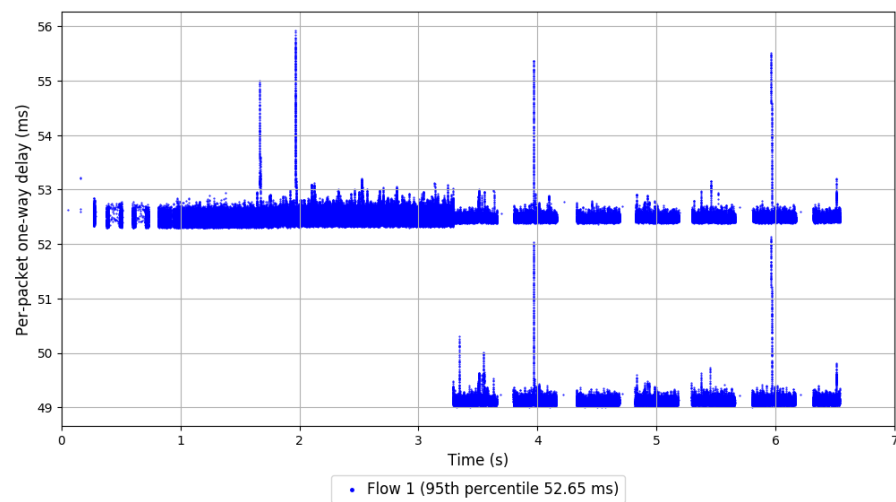
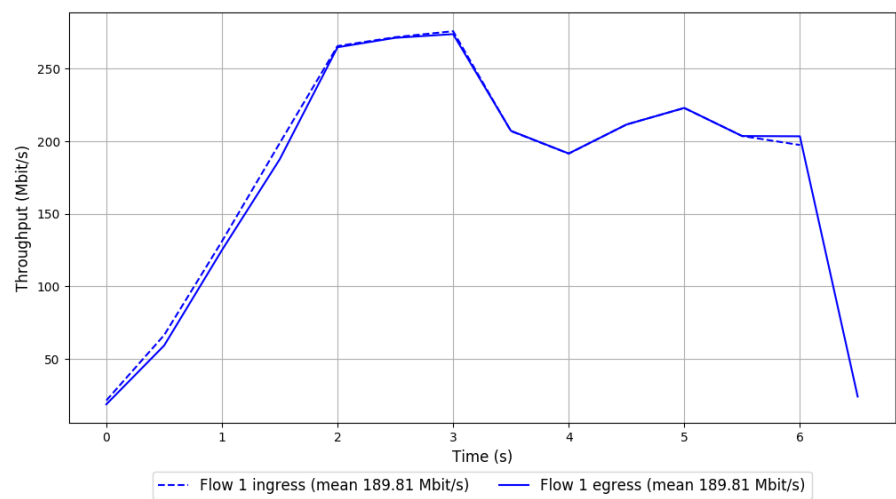


Run 4: Statistics of TaoVA-100x

Start at: 2018-02-13 06:27:44

End at: 2018-02-13 06:28:14

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-13 06:41:55

End at: 2018-02-13 06:42:25

Below is generated by plot.py at 2018-02-13 09:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.25 Mbit/s

95th percentile per-packet one-way delay: 53.296 ms

Loss rate: 0.00%

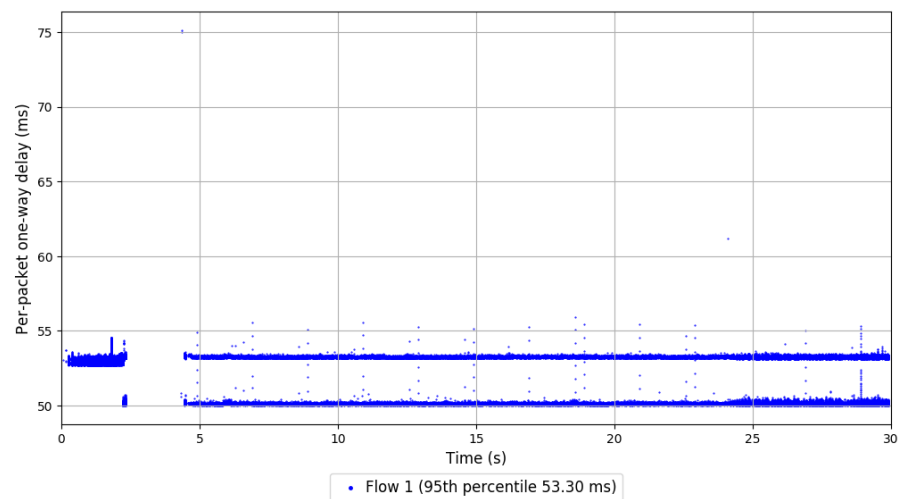
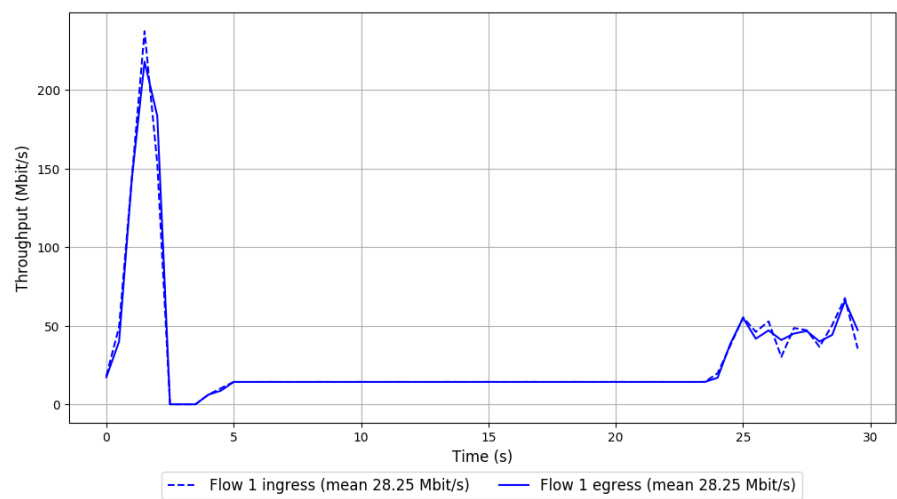
-- Flow 1:

Average throughput: 28.25 Mbit/s

95th percentile per-packet one-way delay: 53.296 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-13 06:56:18

End at: 2018-02-13 06:56:48

Below is generated by plot.py at 2018-02-13 09:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.42 Mbit/s

95th percentile per-packet one-way delay: 53.408 ms

Loss rate: 0.00%

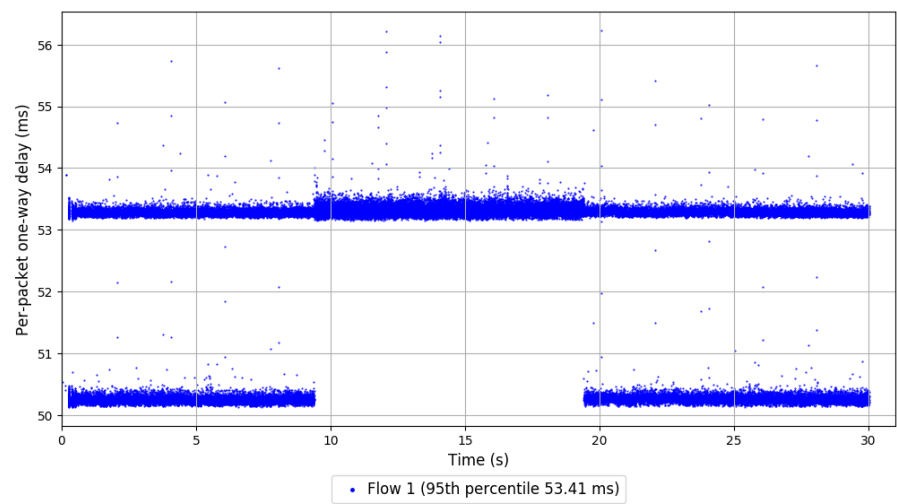
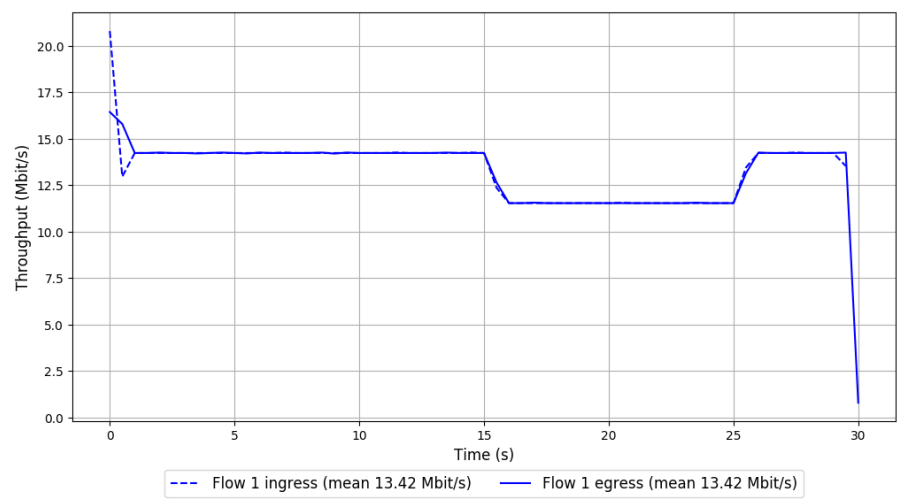
-- Flow 1:

Average throughput: 13.42 Mbit/s

95th percentile per-packet one-way delay: 53.408 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-13 07:10:44

End at: 2018-02-13 07:11:14

Below is generated by plot.py at 2018-02-13 09:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 134.97 Mbit/s

95th percentile per-packet one-way delay: 53.727 ms

Loss rate: 0.00%

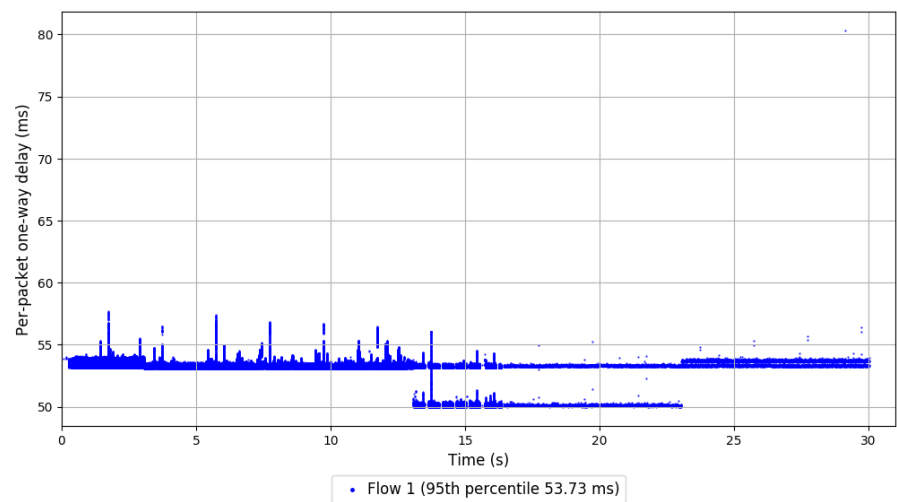
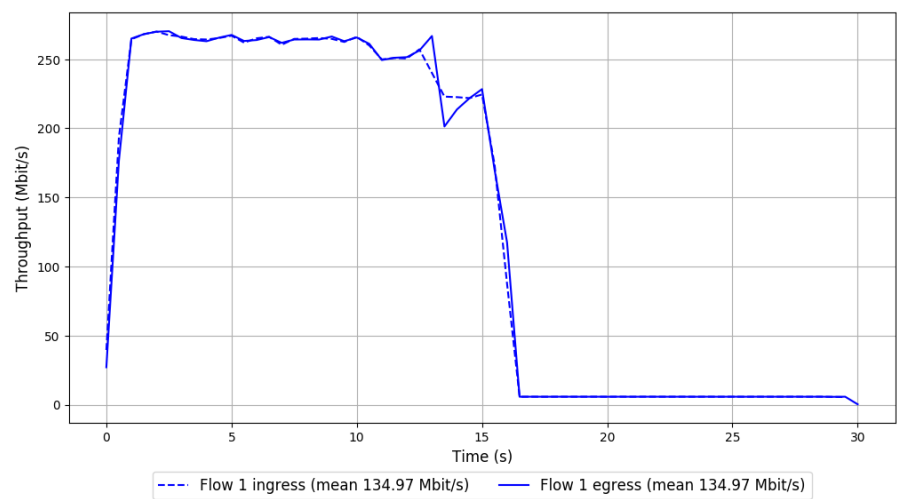
-- Flow 1:

Average throughput: 134.97 Mbit/s

95th percentile per-packet one-way delay: 53.727 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-13 07:25:13

End at: 2018-02-13 07:25:43

Below is generated by plot.py at 2018-02-13 09:54:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.20 Mbit/s

95th percentile per-packet one-way delay: 53.601 ms

Loss rate: 0.00%

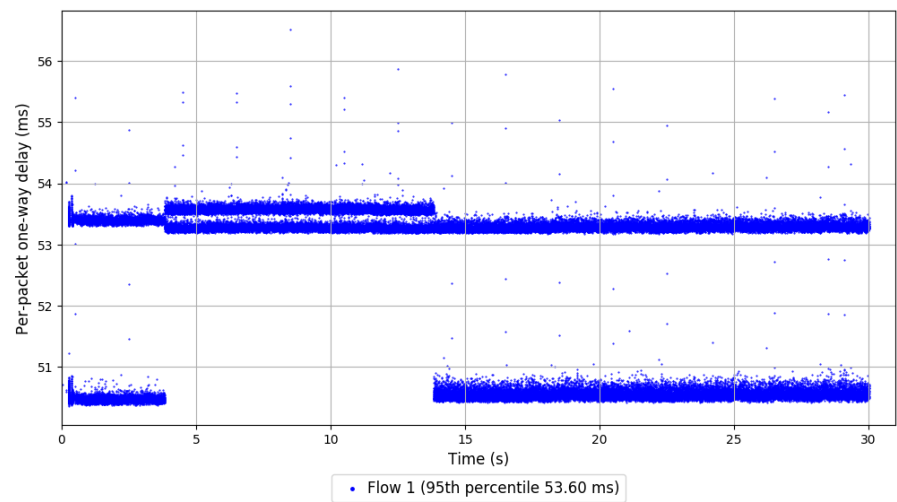
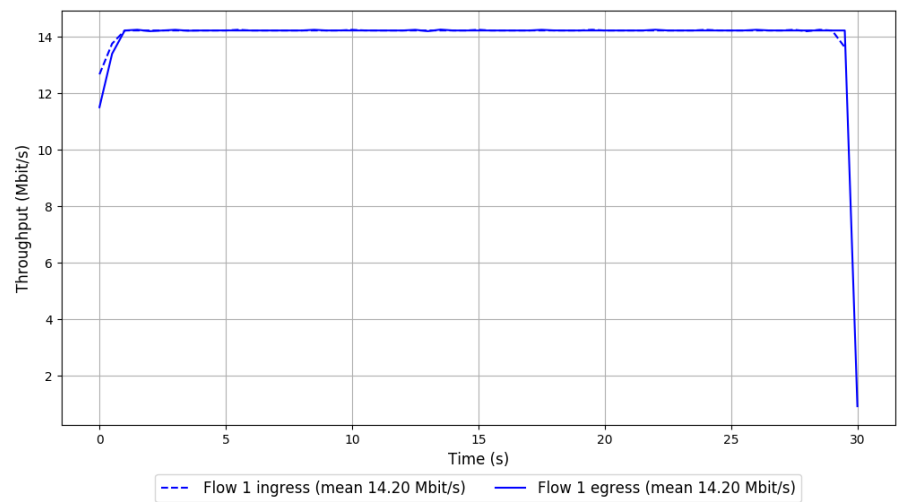
-- Flow 1:

Average throughput: 14.20 Mbit/s

95th percentile per-packet one-way delay: 53.601 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-13 07:39:33

End at: 2018-02-13 07:40:03

Below is generated by plot.py at 2018-02-13 09:55:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 242.33 Mbit/s

95th percentile per-packet one-way delay: 53.521 ms

Loss rate: 0.01%

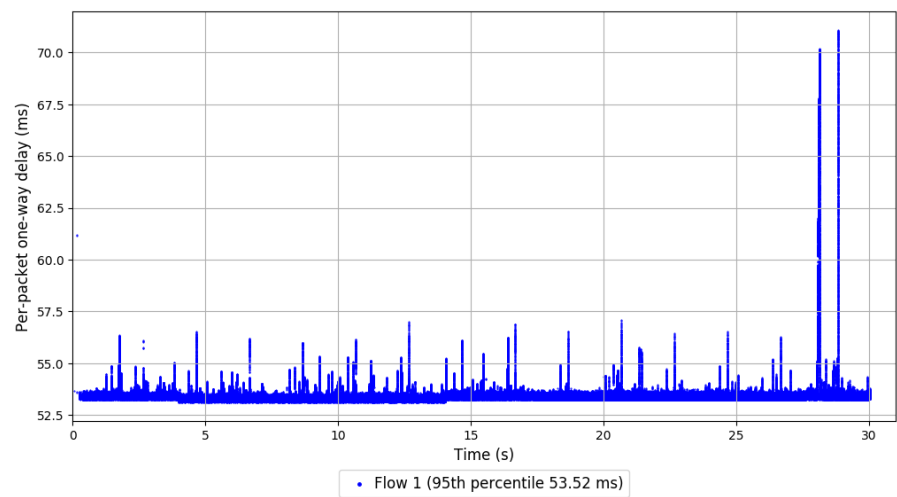
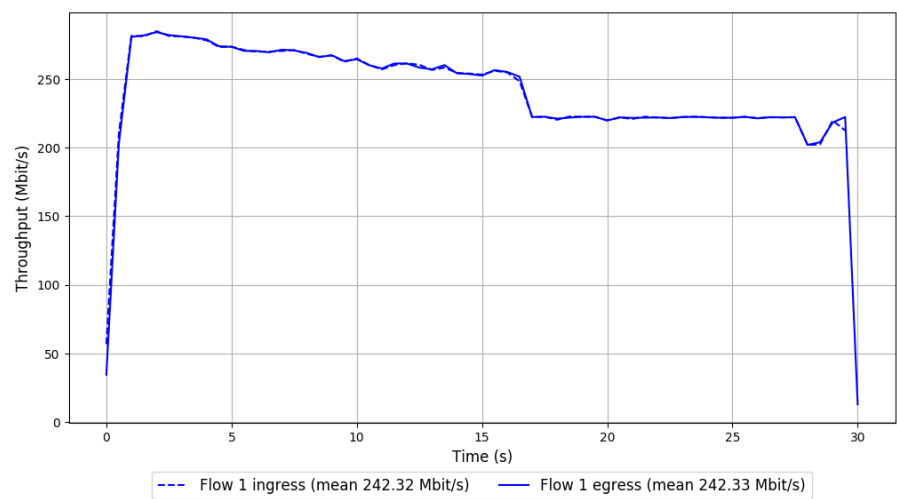
-- Flow 1:

Average throughput: 242.33 Mbit/s

95th percentile per-packet one-way delay: 53.521 ms

Loss rate: 0.01%

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

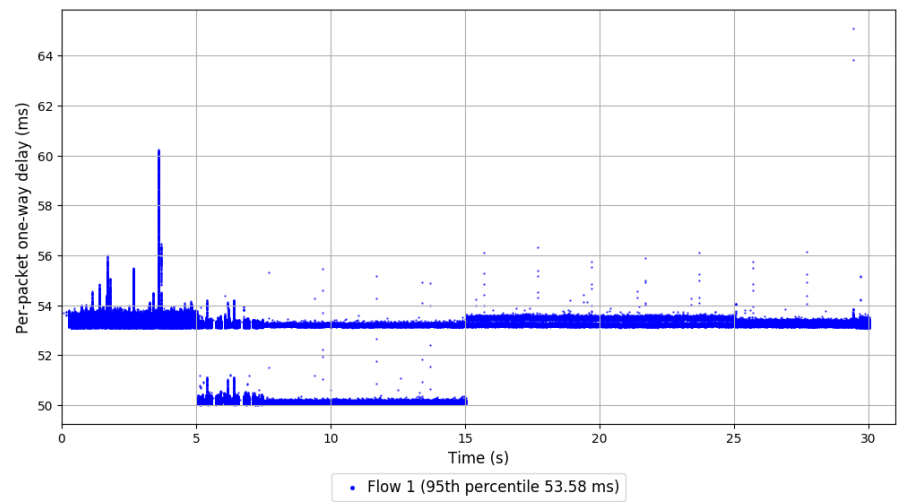
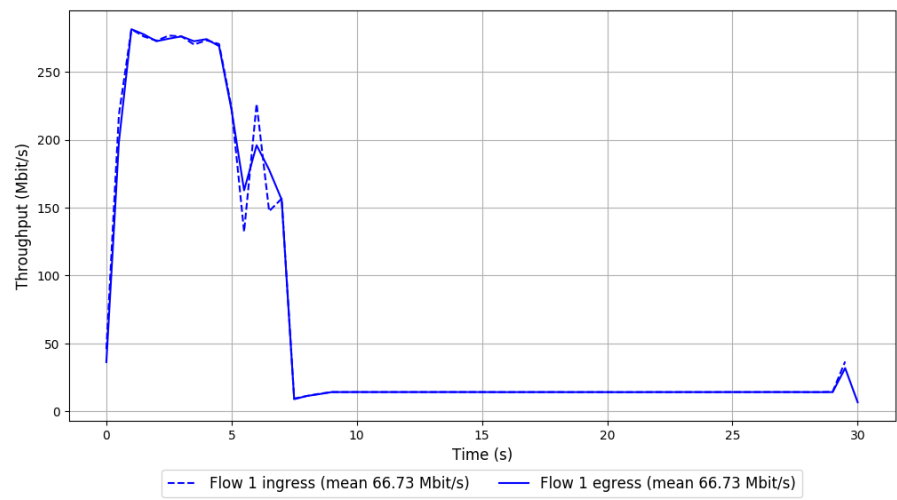


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-13 07:54:12
End at: 2018-02-13 07:54:42

# Below is generated by plot.py at 2018-02-13 09:55:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.73 Mbit/s
95th percentile per-packet one-way delay: 53.580 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 66.73 Mbit/s
95th percentile per-packet one-way delay: 53.580 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-13 05:37:27

End at: 2018-02-13 05:37:57

Below is generated by plot.py at 2018-02-13 09:55:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.11 Mbit/s

95th percentile per-packet one-way delay: 54.058 ms

Loss rate: 0.00%

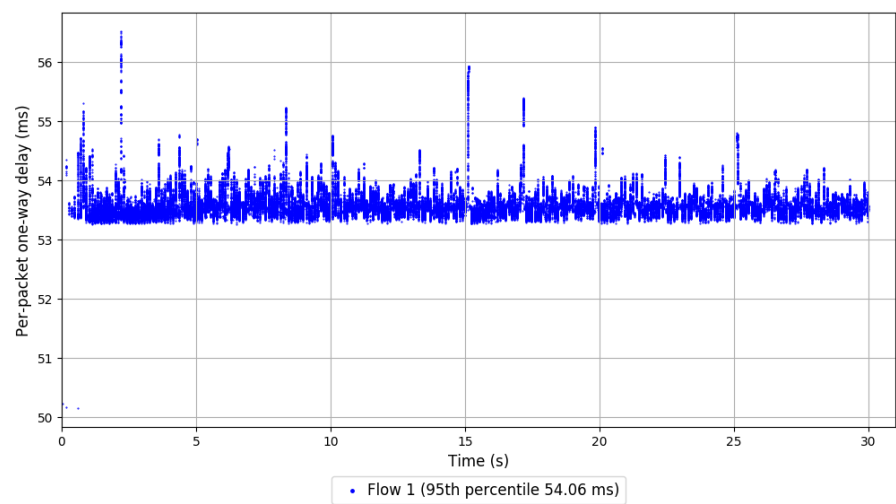
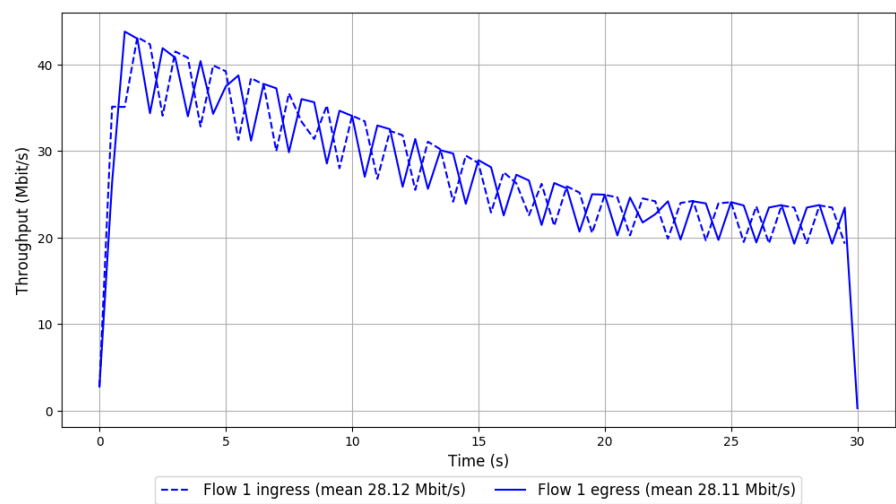
-- Flow 1:

Average throughput: 28.11 Mbit/s

95th percentile per-packet one-way delay: 54.058 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-13 05:51:53

End at: 2018-02-13 05:52:23

Below is generated by plot.py at 2018-02-13 09:55:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.64 Mbit/s

95th percentile per-packet one-way delay: 54.078 ms

Loss rate: 0.01%

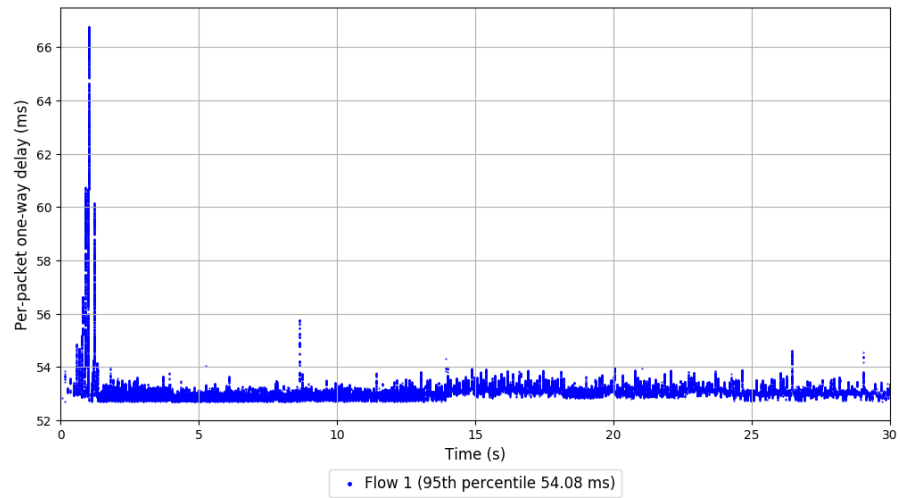
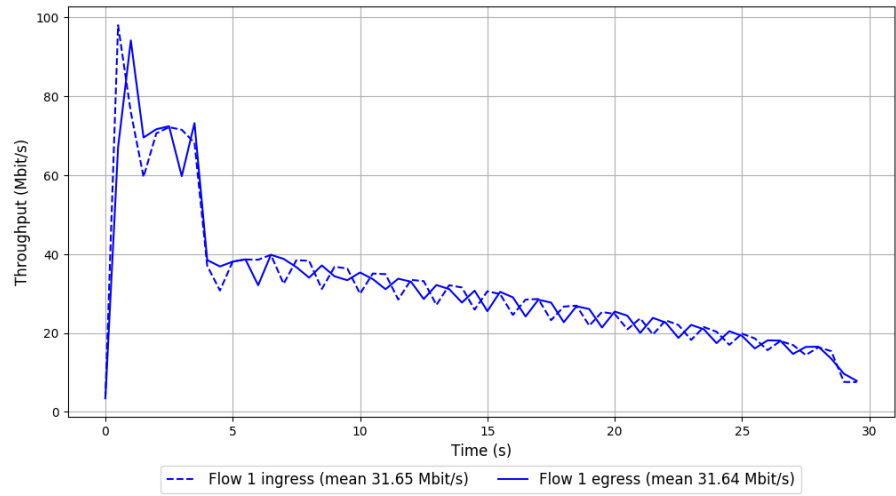
-- Flow 1:

Average throughput: 31.64 Mbit/s

95th percentile per-packet one-way delay: 54.078 ms

Loss rate: 0.01%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-13 06:06:18

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

Below is generated by plot.py at 2018-02-13 09:55:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.97 Mbit/s

95th percentile per-packet one-way delay: 53.609 ms

Loss rate: 0.00%

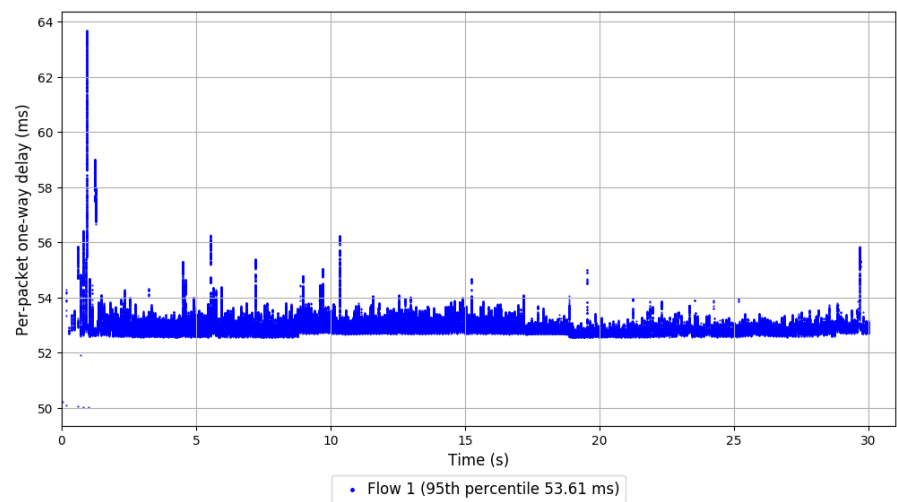
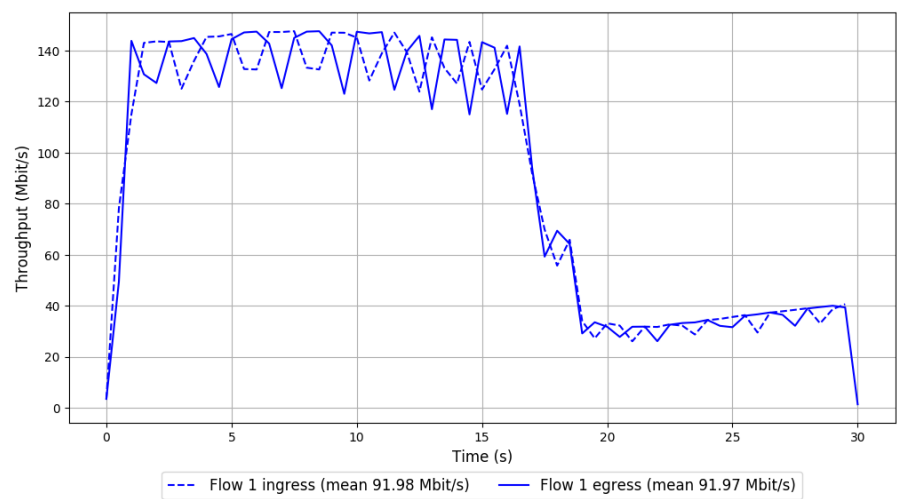
-- Flow 1:

Average throughput: 91.97 Mbit/s

95th percentile per-packet one-way delay: 53.609 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-13 06:20:40

End at: 2018-02-13 06:21:10

Below is generated by plot.py at 2018-02-13 09:55:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.08 Mbit/s

95th percentile per-packet one-way delay: 53.640 ms

Loss rate: 0.01%

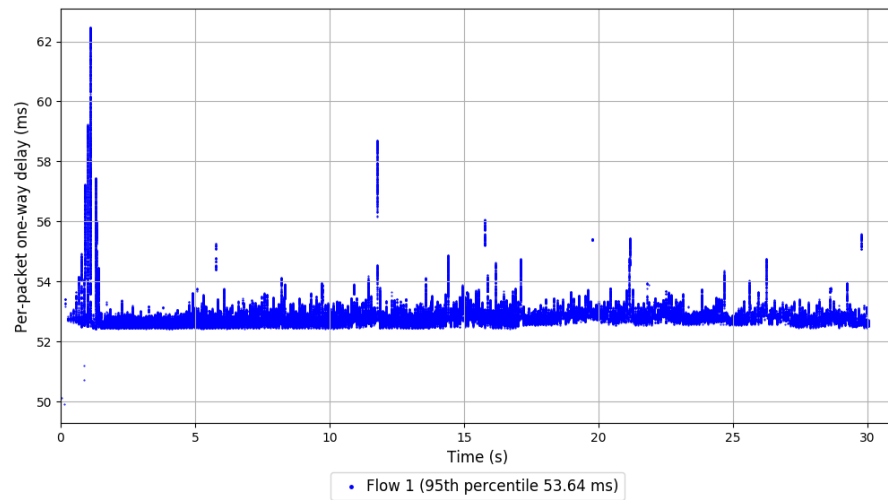
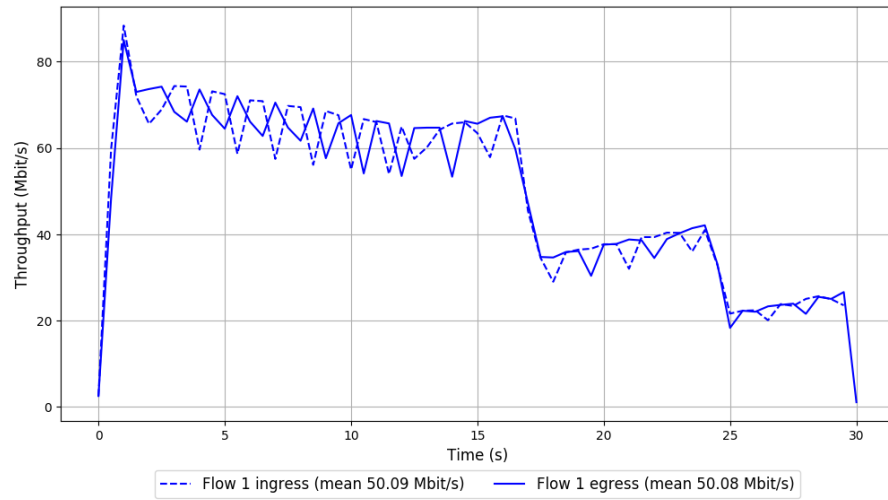
-- Flow 1:

Average throughput: 50.08 Mbit/s

95th percentile per-packet one-way delay: 53.640 ms

Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-13 06:34:58

End at: 2018-02-13 06:35:28

Below is generated by plot.py at 2018-02-13 09:55:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.02 Mbit/s

95th percentile per-packet one-way delay: 63.450 ms

Loss rate: 0.01%

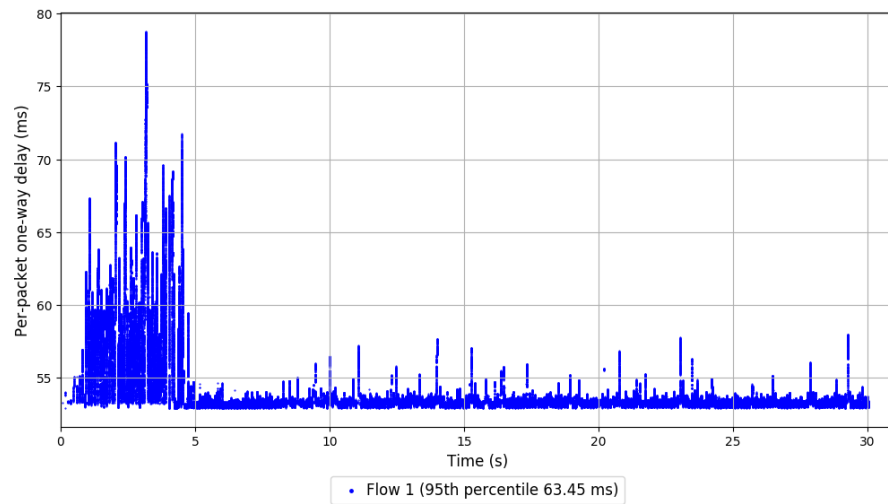
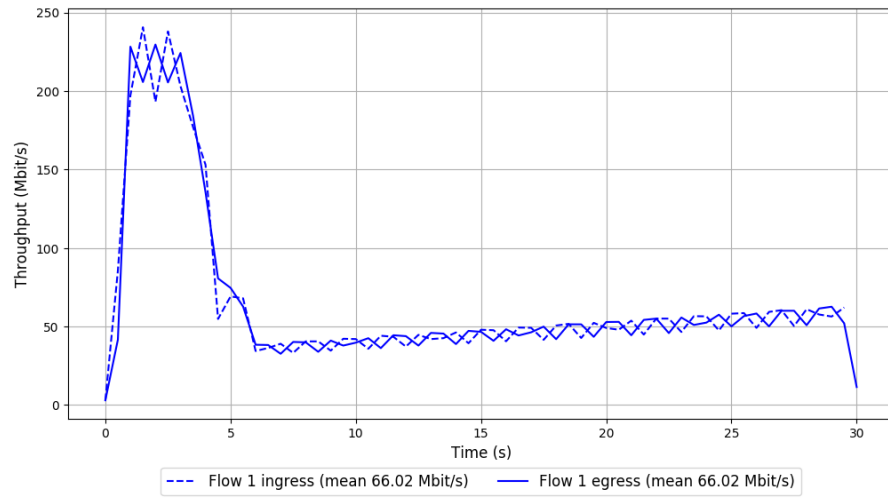
-- Flow 1:

Average throughput: 66.02 Mbit/s

95th percentile per-packet one-way delay: 63.450 ms

Loss rate: 0.01%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-13 06:49:11

End at: 2018-02-13 06:49:41

Below is generated by plot.py at 2018-02-13 09:55:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.13 Mbit/s

95th percentile per-packet one-way delay: 54.033 ms

Loss rate: 0.00%

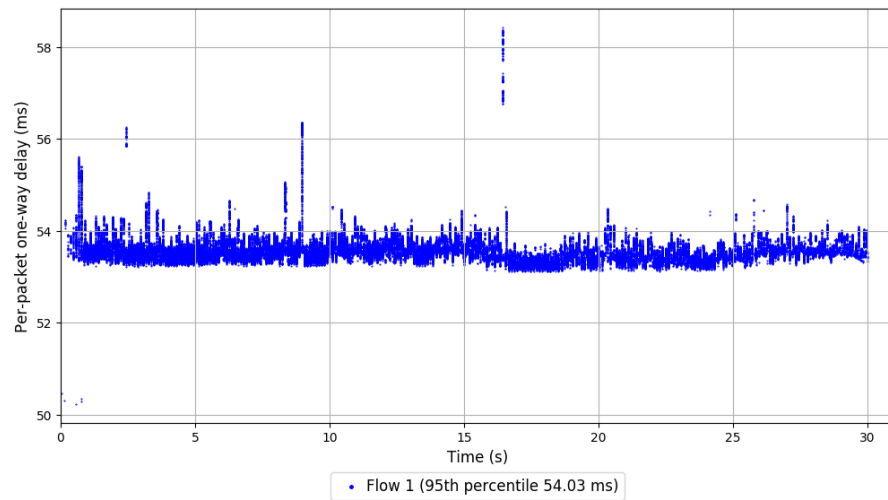
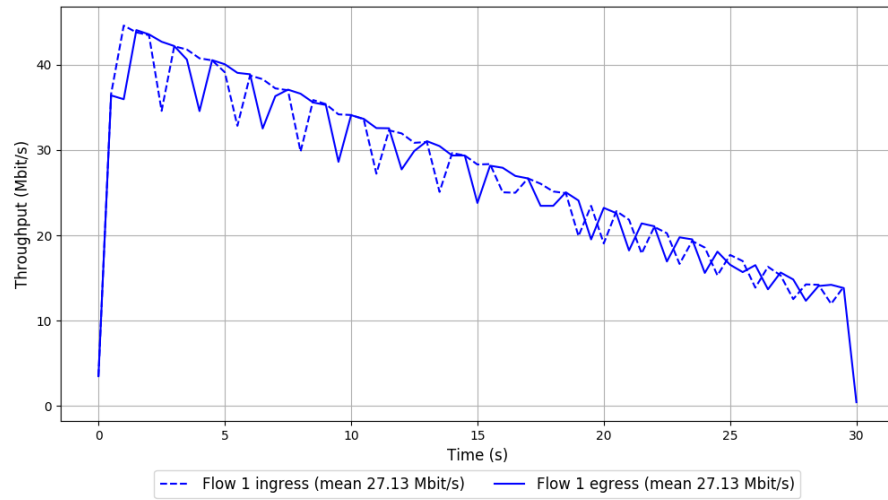
-- Flow 1:

Average throughput: 27.13 Mbit/s

95th percentile per-packet one-way delay: 54.033 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-13 07:03:33

End at: 2018-02-13 07:04:03

Below is generated by plot.py at 2018-02-13 09:55:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.65 Mbit/s

95th percentile per-packet one-way delay: 54.254 ms

Loss rate: 0.00%

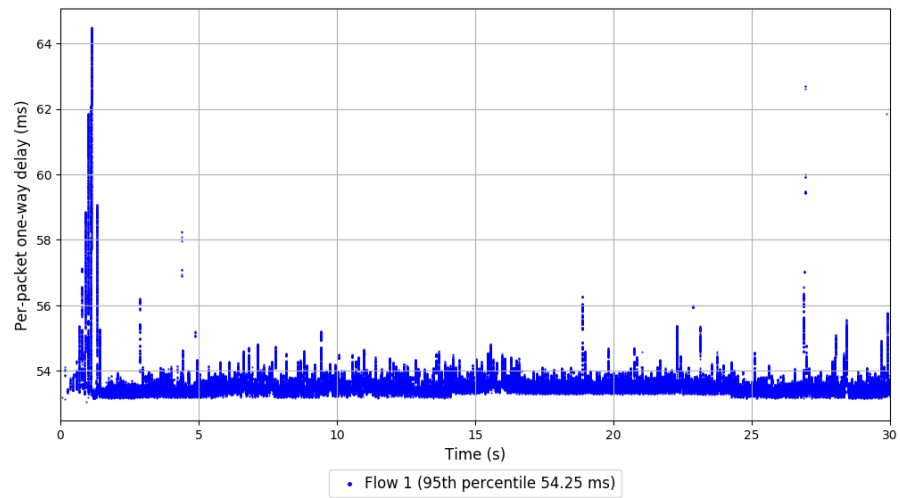
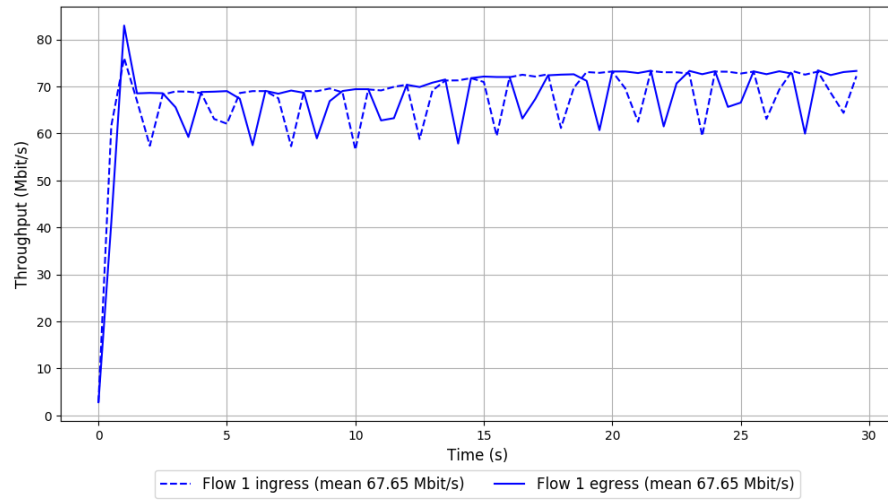
-- Flow 1:

Average throughput: 67.65 Mbit/s

95th percentile per-packet one-way delay: 54.254 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-13 07:18:06

End at: 2018-02-13 07:18:36

Below is generated by plot.py at 2018-02-13 09:55:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.44 Mbit/s

95th percentile per-packet one-way delay: 54.439 ms

Loss rate: 0.02%

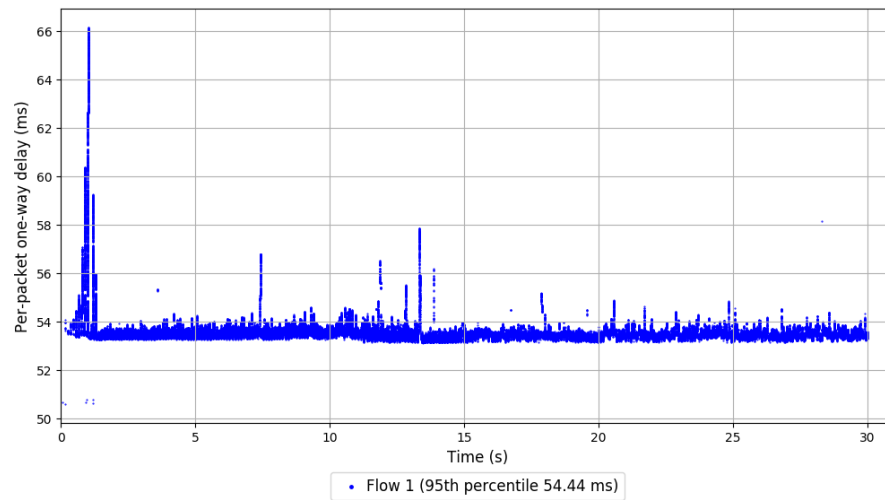
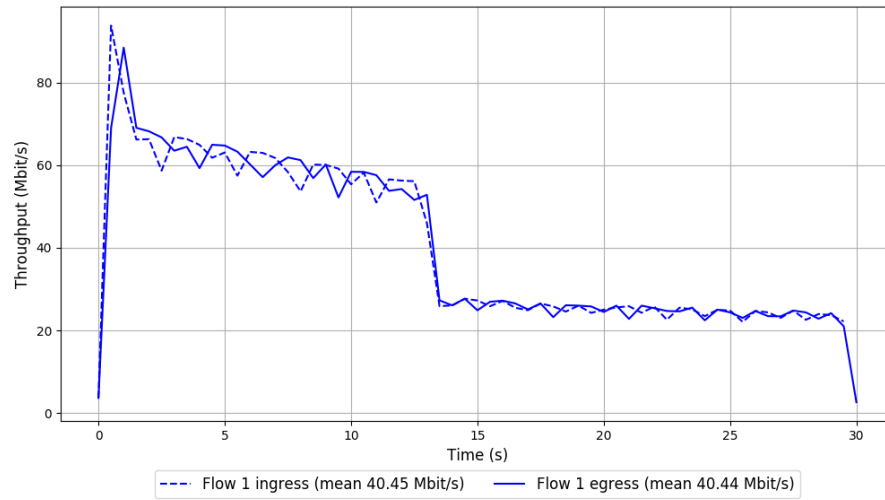
-- Flow 1:

Average throughput: 40.44 Mbit/s

95th percentile per-packet one-way delay: 54.439 ms

Loss rate: 0.02%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-13 07:32:27

End at: 2018-02-13 07:32:57

Below is generated by plot.py at 2018-02-13 09:55:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.65 Mbit/s

95th percentile per-packet one-way delay: 54.413 ms

Loss rate: 0.00%

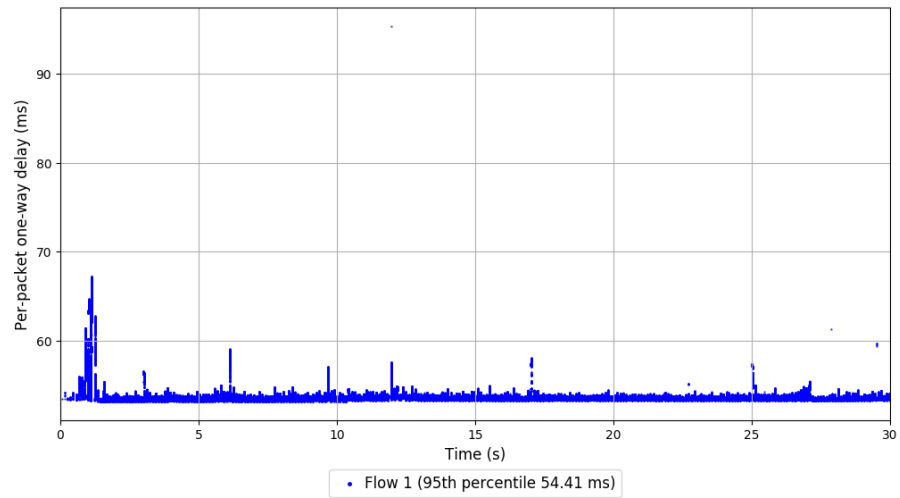
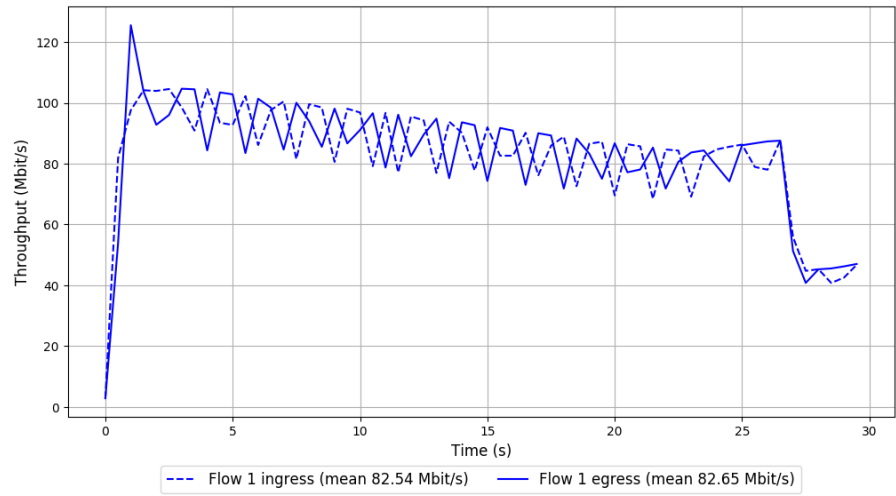
-- Flow 1:

Average throughput: 82.65 Mbit/s

95th percentile per-packet one-way delay: 54.413 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-13 07:47:05

End at: 2018-02-13 07:47:35

Below is generated by plot.py at 2018-02-13 09:55:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.65 Mbit/s

95th percentile per-packet one-way delay: 54.719 ms

Loss rate: 0.06%

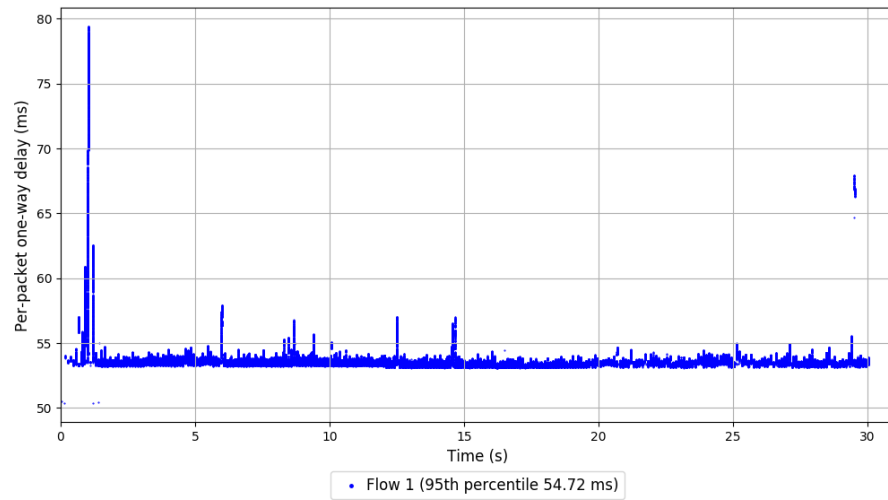
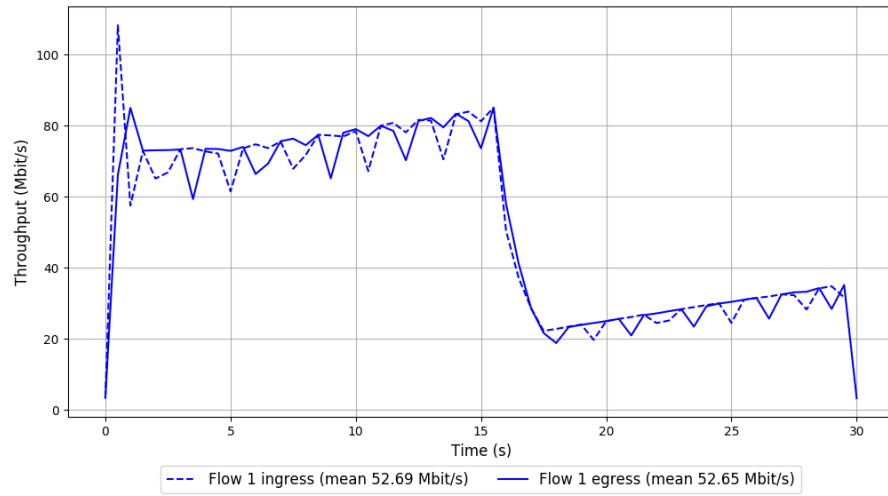
-- Flow 1:

Average throughput: 52.65 Mbit/s

95th percentile per-packet one-way delay: 54.719 ms

Loss rate: 0.06%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-02-13 05:33:59

End at: 2018-02-13 05:34:29

Below is generated by plot.py at 2018-02-13 09:55:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 245.24 Mbit/s

95th percentile per-packet one-way delay: 202.497 ms

Loss rate: 0.18%

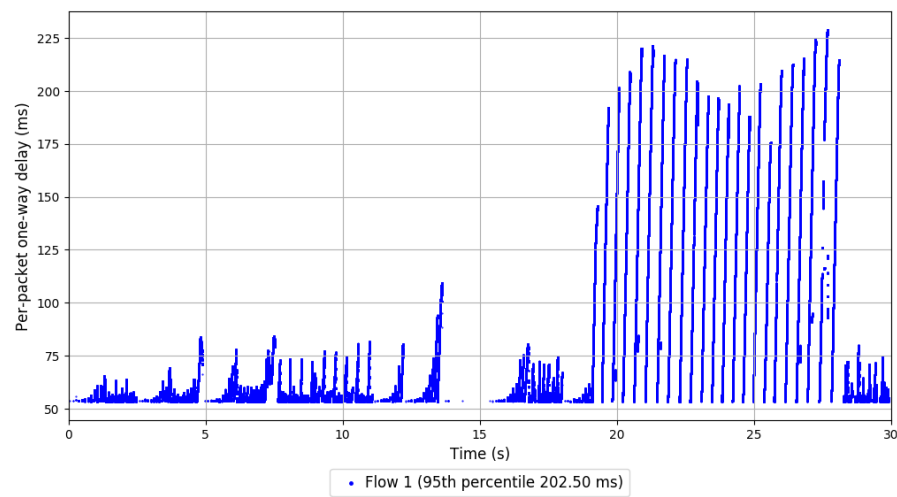
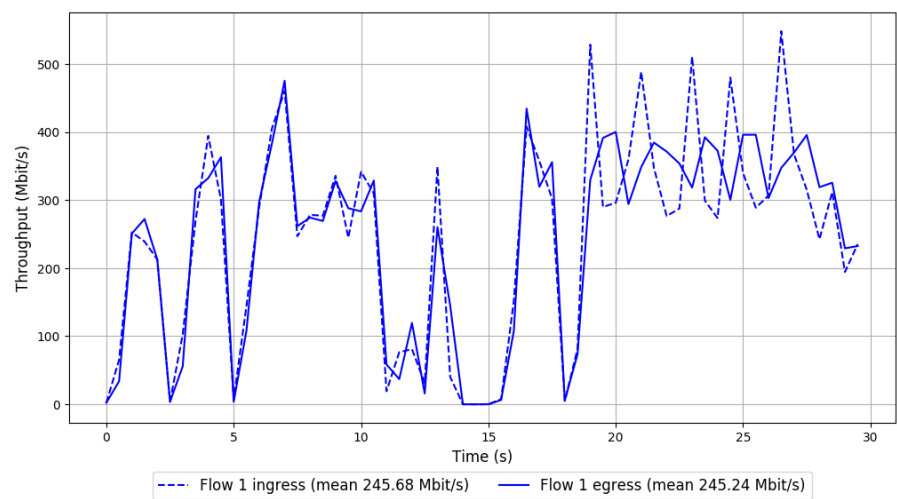
-- Flow 1:

Average throughput: 245.24 Mbit/s

95th percentile per-packet one-way delay: 202.497 ms

Loss rate: 0.18%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-13 05:48:19

End at: 2018-02-13 05:48:49

Below is generated by plot.py at 2018-02-13 09:56:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 308.35 Mbit/s

95th percentile per-packet one-way delay: 222.733 ms

Loss rate: 1.30%

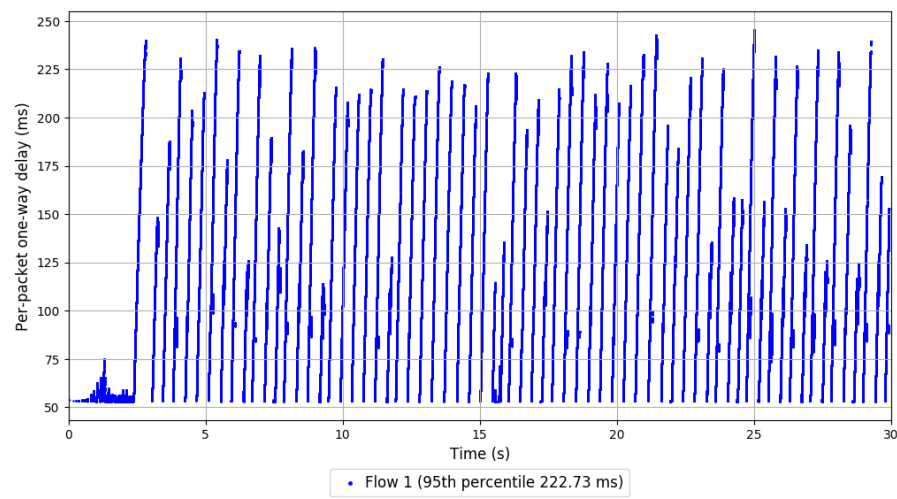
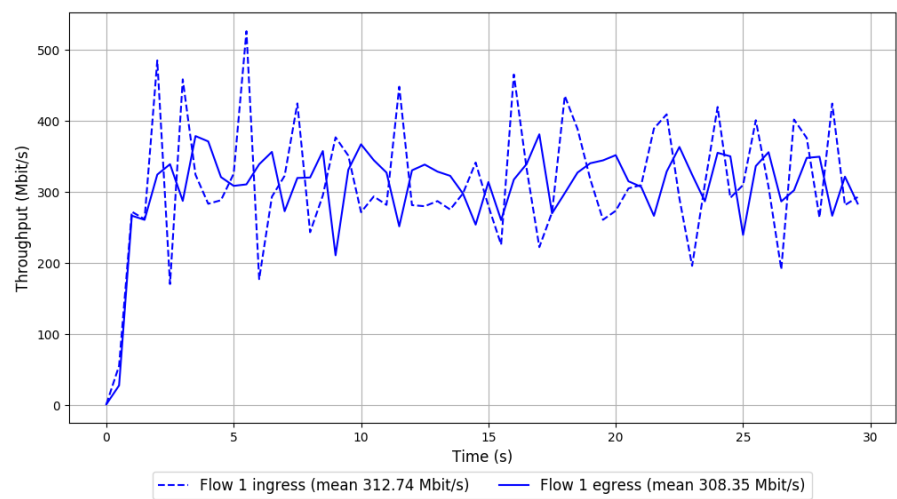
-- Flow 1:

Average throughput: 308.35 Mbit/s

95th percentile per-packet one-way delay: 222.733 ms

Loss rate: 1.30%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-13 06:02:49

End at: 2018-02-13 06:03:19

Below is generated by plot.py at 2018-02-13 09:56:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.38 Mbit/s

95th percentile per-packet one-way delay: 141.887 ms

Loss rate: 0.00%

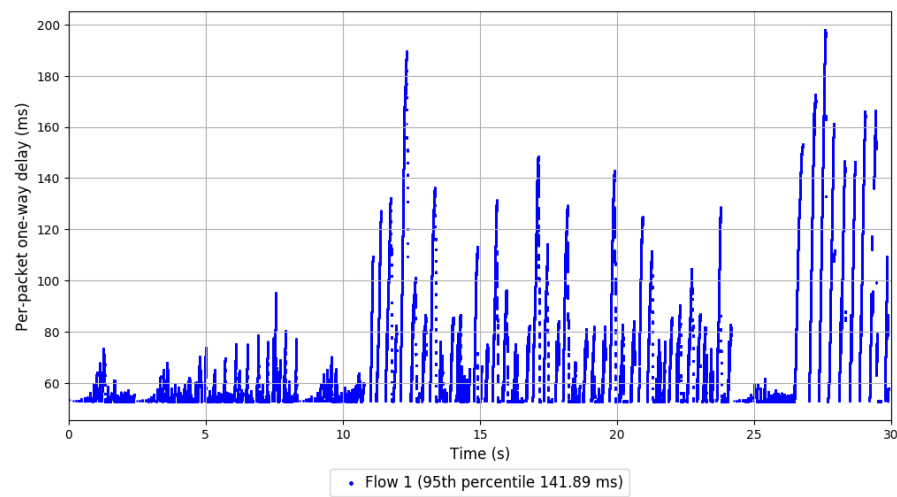
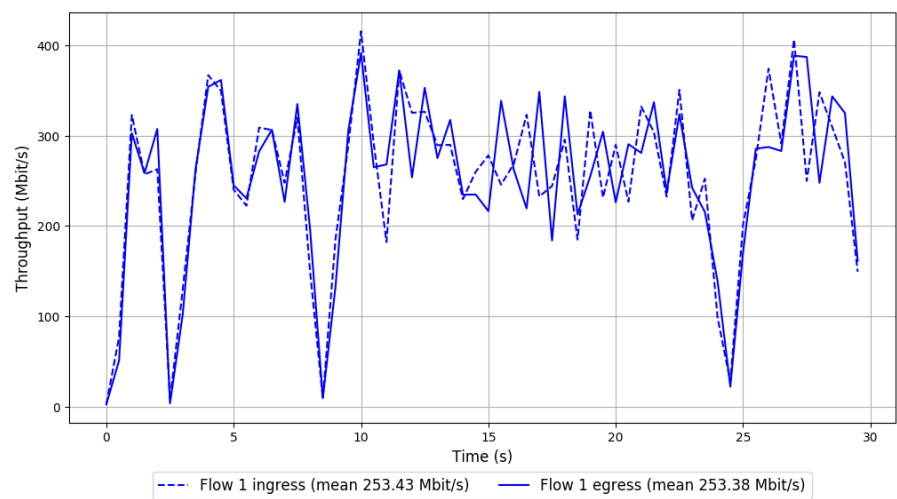
-- Flow 1:

Average throughput: 253.38 Mbit/s

95th percentile per-packet one-way delay: 141.887 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-13 06:17:09

End at: 2018-02-13 06:17:39

Below is generated by plot.py at 2018-02-13 09:56:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 277.94 Mbit/s

95th percentile per-packet one-way delay: 103.340 ms

Loss rate: 0.00%

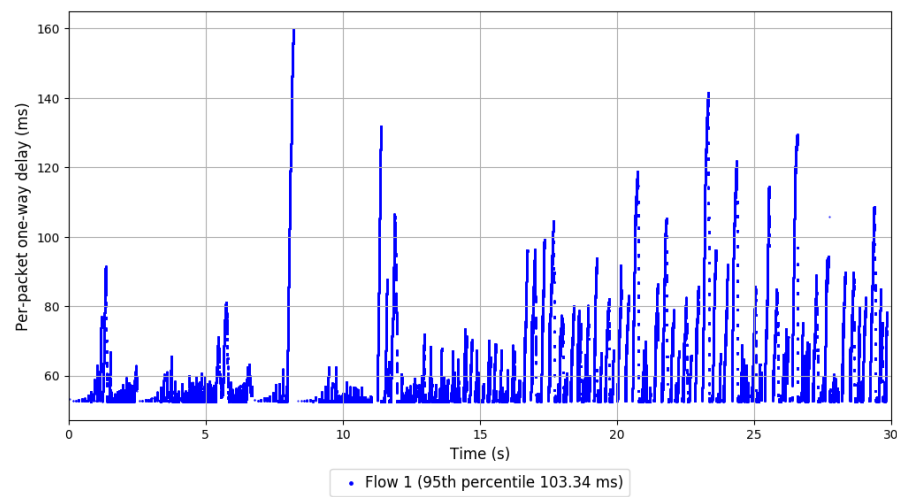
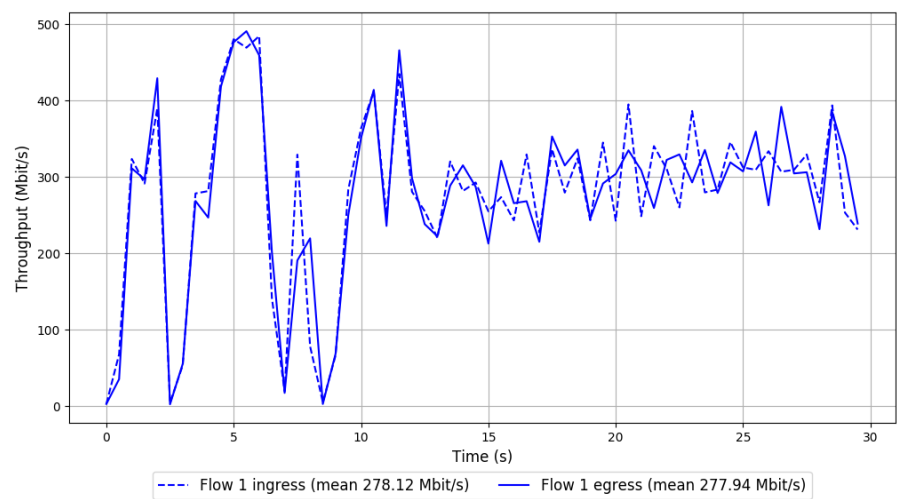
-- Flow 1:

Average throughput: 277.94 Mbit/s

95th percentile per-packet one-way delay: 103.340 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-13 06:31:29

End at: 2018-02-13 06:31:59

Below is generated by plot.py at 2018-02-13 09:56:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 232.34 Mbit/s

95th percentile per-packet one-way delay: 109.303 ms

Loss rate: 0.26%

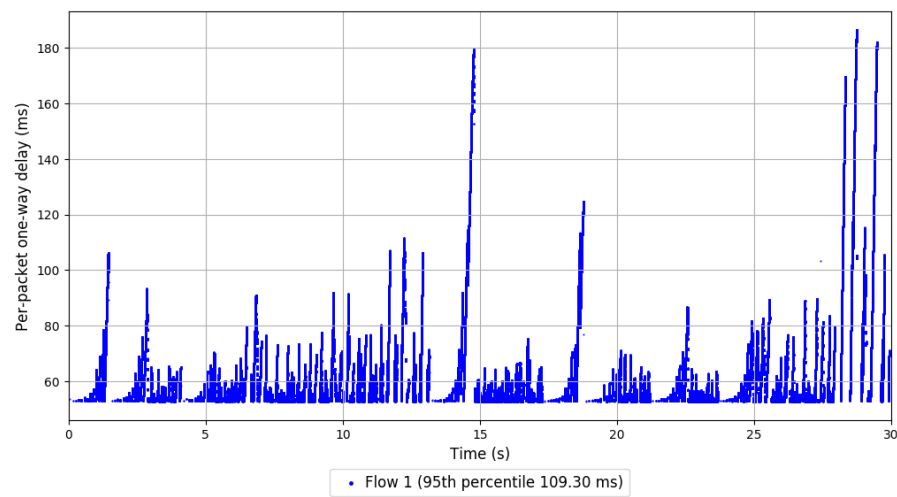
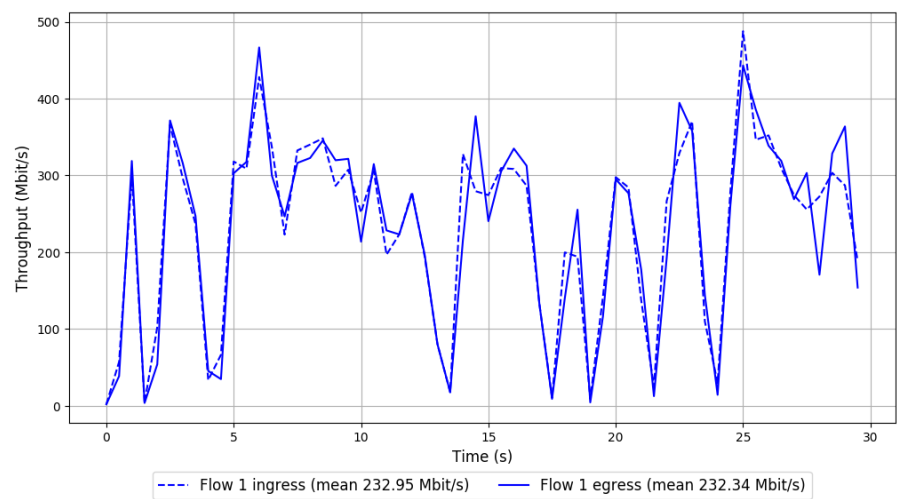
-- Flow 1:

Average throughput: 232.34 Mbit/s

95th percentile per-packet one-way delay: 109.303 ms

Loss rate: 0.26%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-13 06:45:42

End at: 2018-02-13 06:46:12

Below is generated by plot.py at 2018-02-13 09:58:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.49 Mbit/s

95th percentile per-packet one-way delay: 95.170 ms

Loss rate: 0.01%

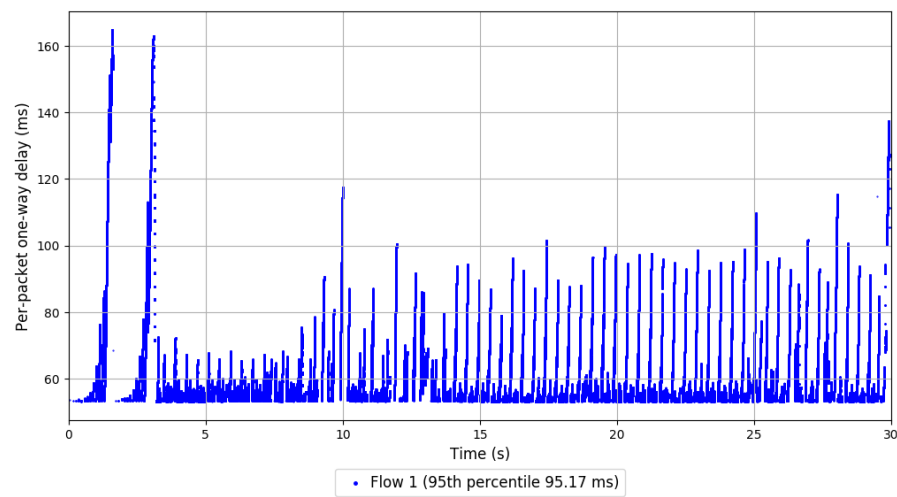
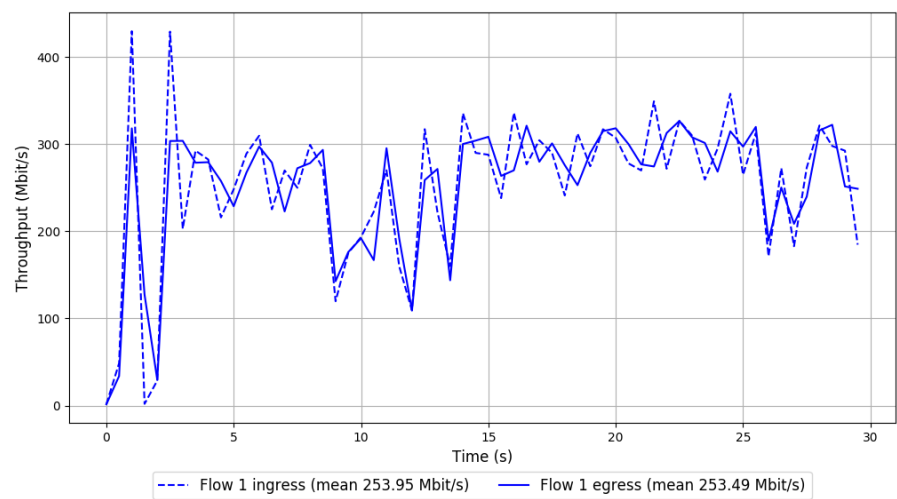
-- Flow 1:

Average throughput: 253.49 Mbit/s

95th percentile per-packet one-way delay: 95.170 ms

Loss rate: 0.01%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-13 07:00:03

End at: 2018-02-13 07:00:33

Below is generated by plot.py at 2018-02-13 09:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 240.38 Mbit/s

95th percentile per-packet one-way delay: 90.025 ms

Loss rate: 0.20%

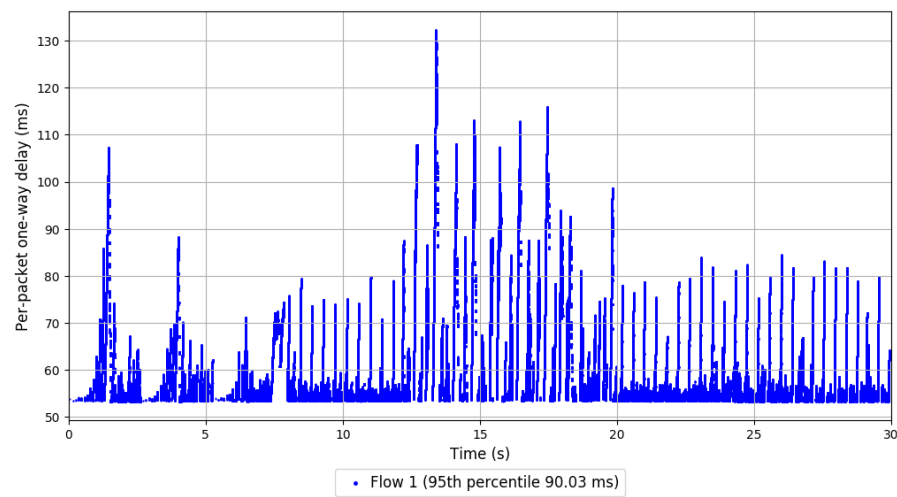
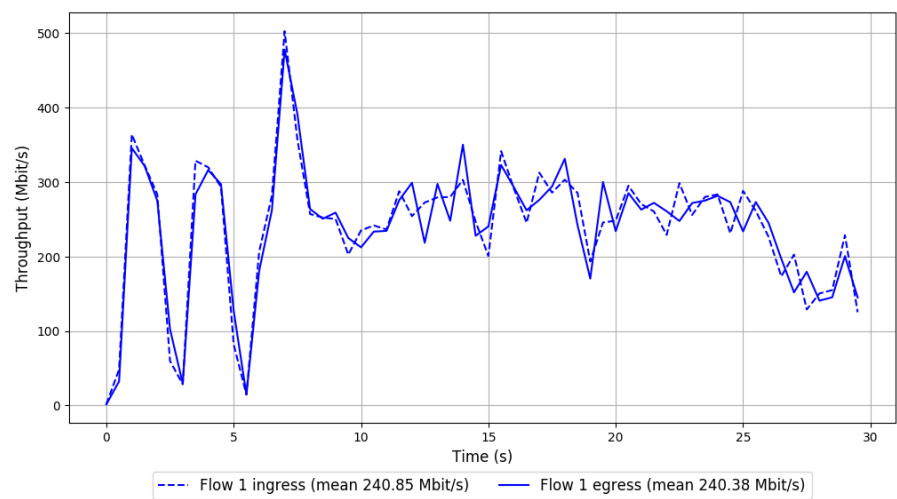
-- Flow 1:

Average throughput: 240.38 Mbit/s

95th percentile per-packet one-way delay: 90.025 ms

Loss rate: 0.20%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-13 07:14:35

End at: 2018-02-13 07:15:05

Below is generated by plot.py at 2018-02-13 10:00:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 291.97 Mbit/s

95th percentile per-packet one-way delay: 115.815 ms

Loss rate: 0.18%

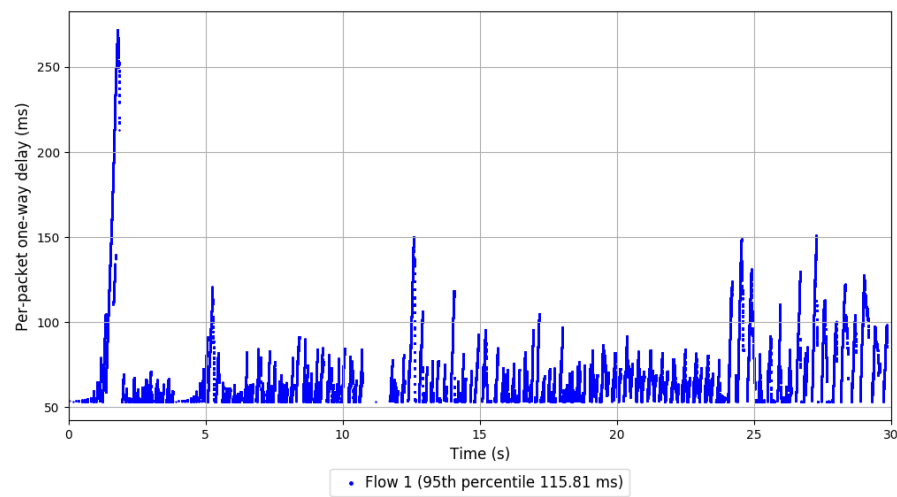
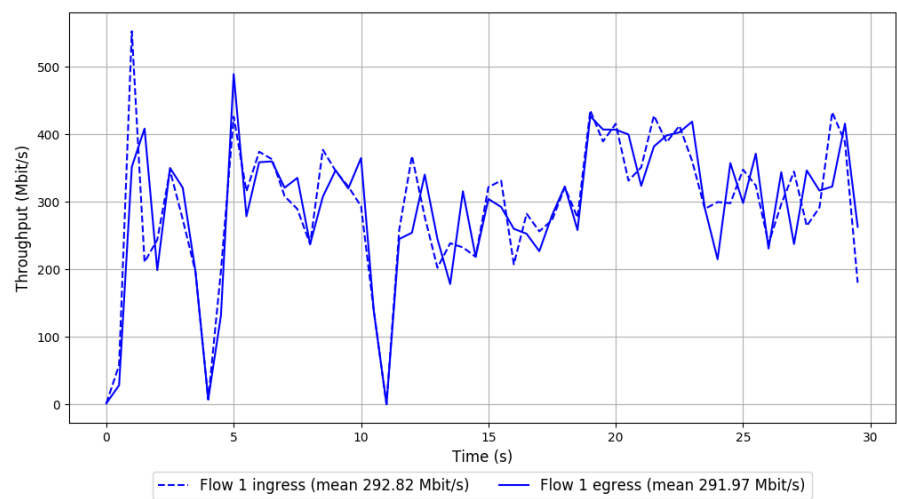
-- Flow 1:

Average throughput: 291.97 Mbit/s

95th percentile per-packet one-way delay: 115.815 ms

Loss rate: 0.18%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-13 07:28:59

End at: 2018-02-13 07:29:29

Below is generated by plot.py at 2018-02-13 10:00:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.94 Mbit/s

95th percentile per-packet one-way delay: 80.035 ms

Loss rate: 0.00%

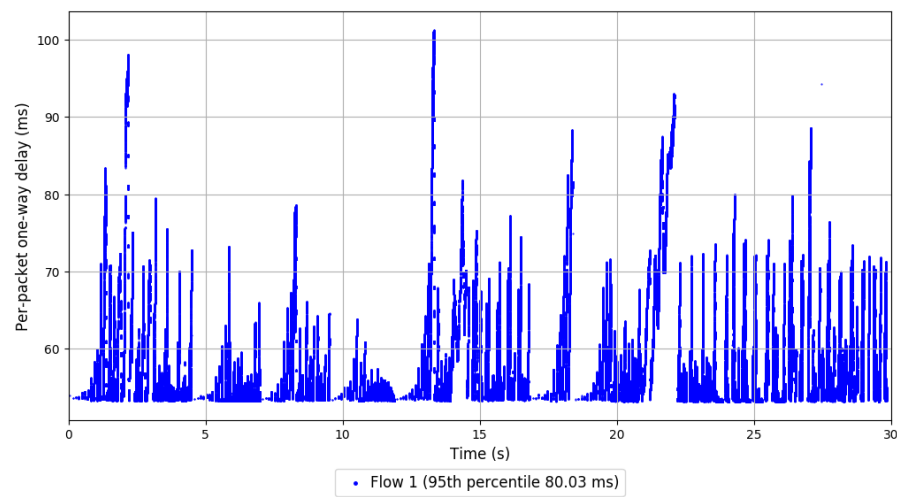
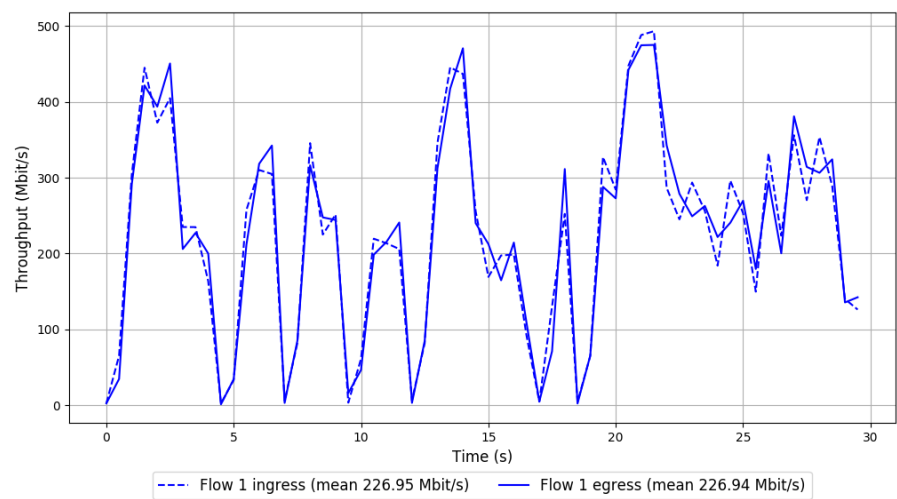
-- Flow 1:

Average throughput: 226.94 Mbit/s

95th percentile per-packet one-way delay: 80.035 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-13 07:43:34

End at: 2018-02-13 07:44:04

Below is generated by plot.py at 2018-02-13 10:00:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 274.95 Mbit/s

95th percentile per-packet one-way delay: 138.199 ms

Loss rate: 0.16%

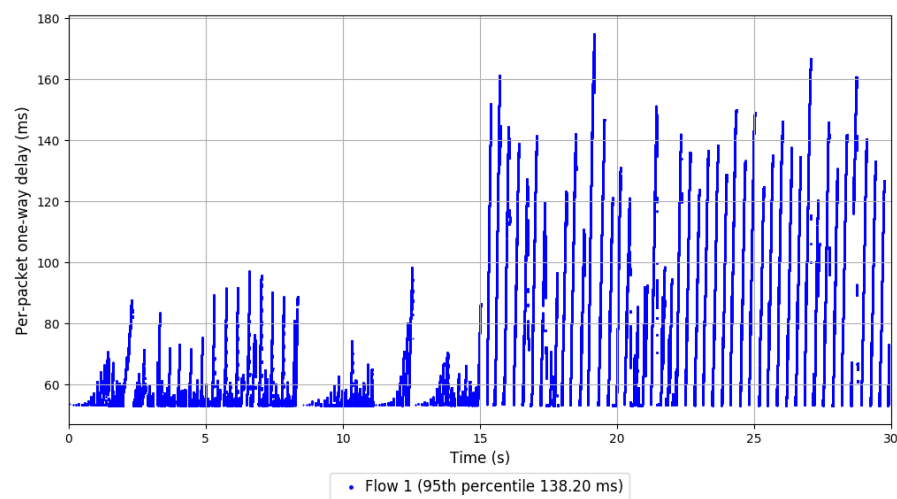
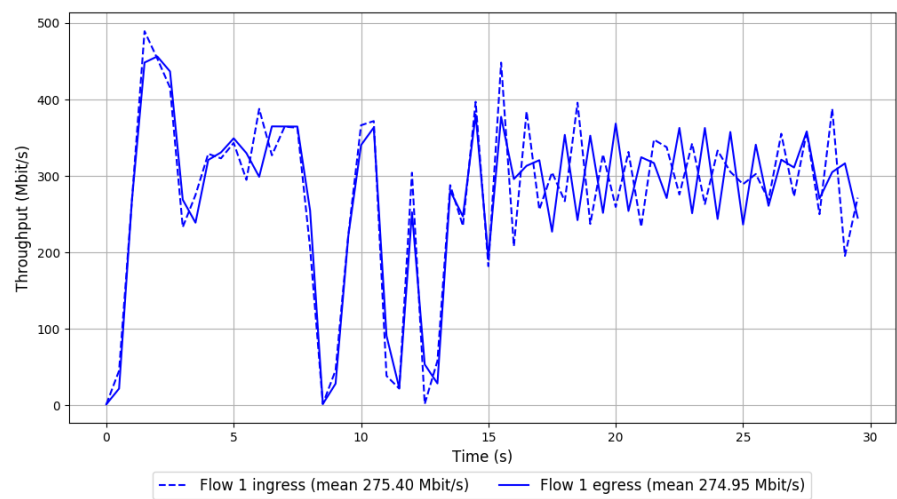
-- Flow 1:

Average throughput: 274.95 Mbit/s

95th percentile per-packet one-way delay: 138.199 ms

Loss rate: 0.16%

Run 10: Report of Verus — Data Link

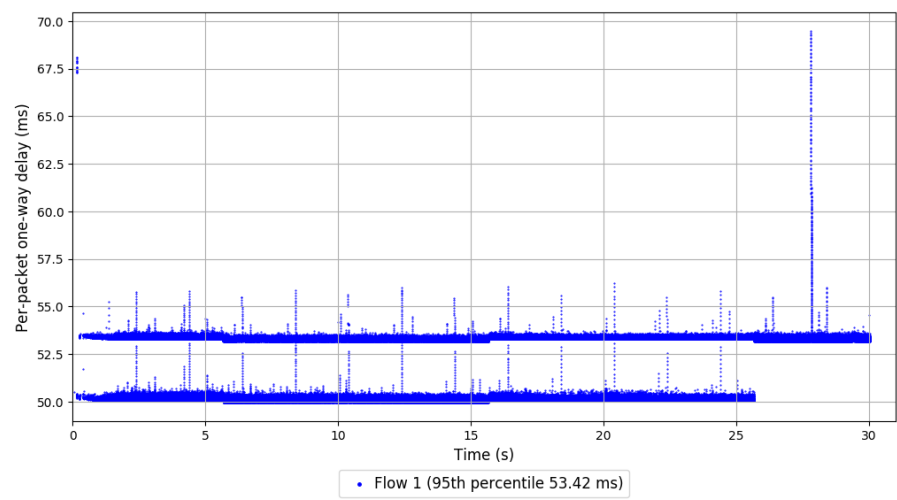
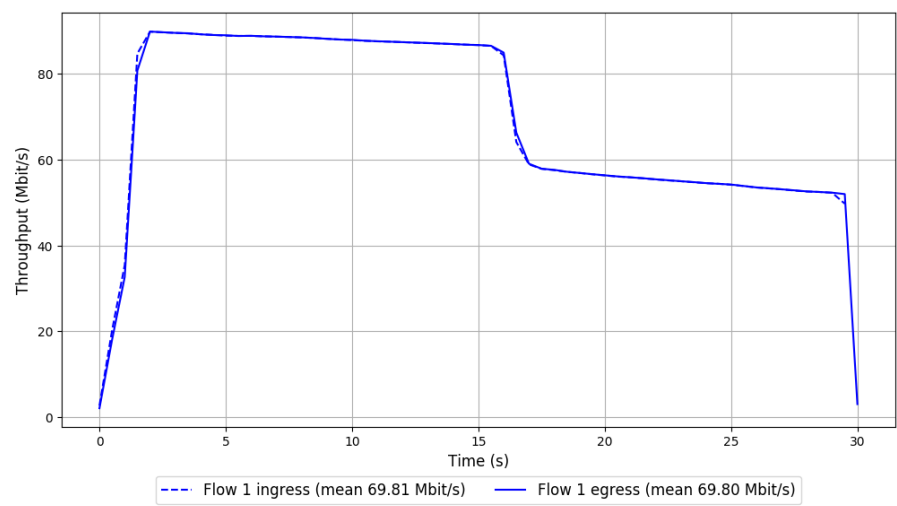


```
Run 1: Statistics of Copa

Start at: 2018-02-13 05:42:01
End at: 2018-02-13 05:42:31

# Below is generated by plot.py at 2018-02-13 10:00:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.80 Mbit/s
95th percentile per-packet one-way delay: 53.421 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 69.80 Mbit/s
95th percentile per-packet one-way delay: 53.421 ms
Loss rate: 0.01%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-13 05:56:31

End at: 2018-02-13 05:57:01

Below is generated by plot.py at 2018-02-13 10:00:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.39 Mbit/s

95th percentile per-packet one-way delay: 53.036 ms

Loss rate: 0.00%

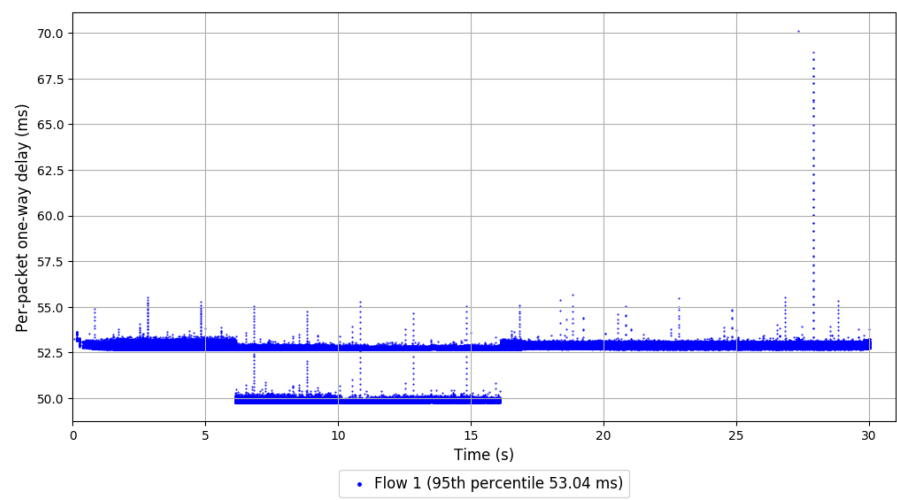
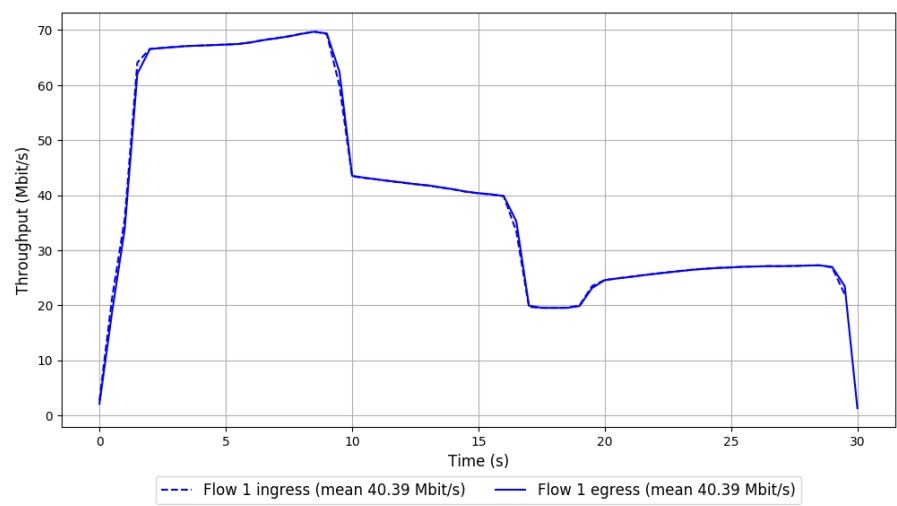
-- Flow 1:

Average throughput: 40.39 Mbit/s

95th percentile per-packet one-way delay: 53.036 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-13 06:10:54

End at: 2018-02-13 06:11:24

Below is generated by plot.py at 2018-02-13 10:00:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.37 Mbit/s

95th percentile per-packet one-way delay: 52.864 ms

Loss rate: 0.00%

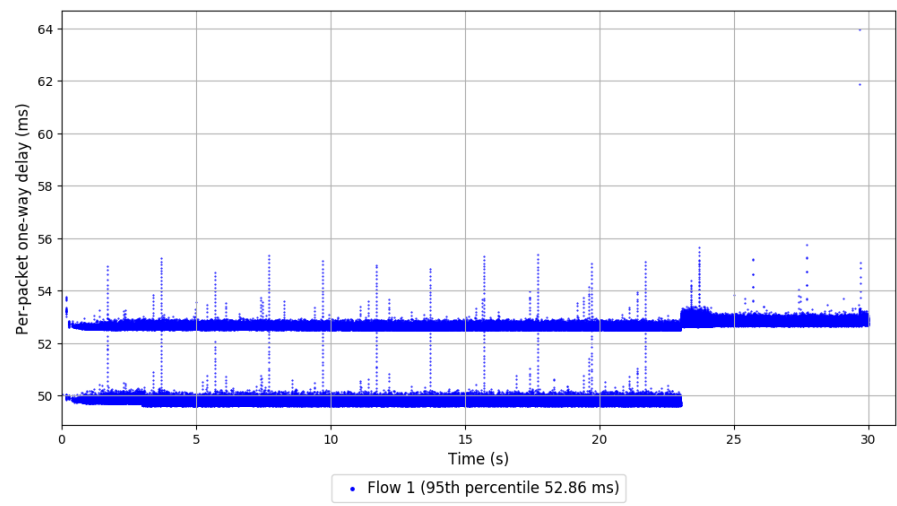
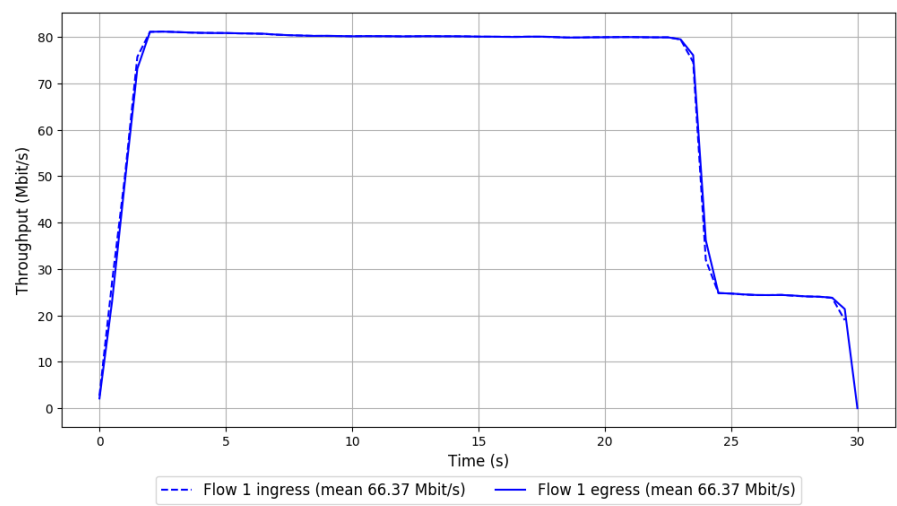
-- Flow 1:

Average throughput: 66.37 Mbit/s

95th percentile per-packet one-way delay: 52.864 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-13 06:25:12

End at: 2018-02-13 06:25:42

Below is generated by plot.py at 2018-02-13 10:00:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.67 Mbit/s

95th percentile per-packet one-way delay: 52.814 ms

Loss rate: 0.00%

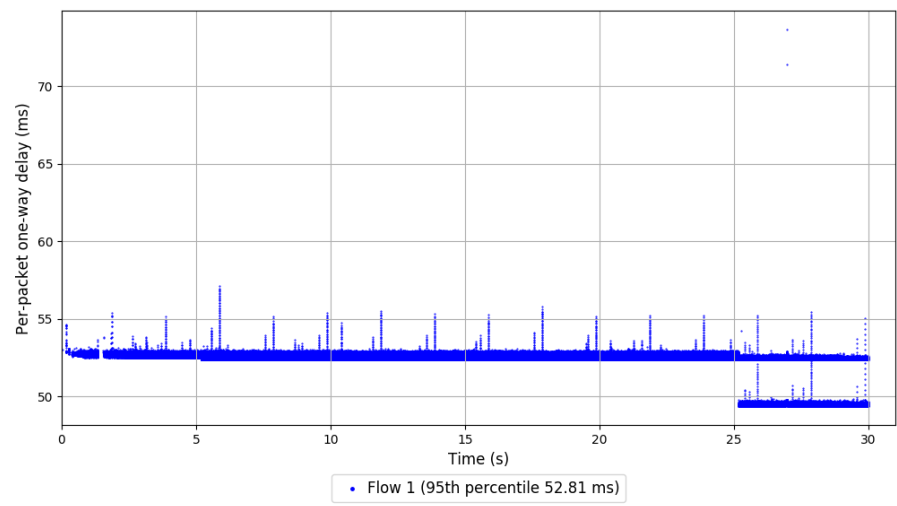
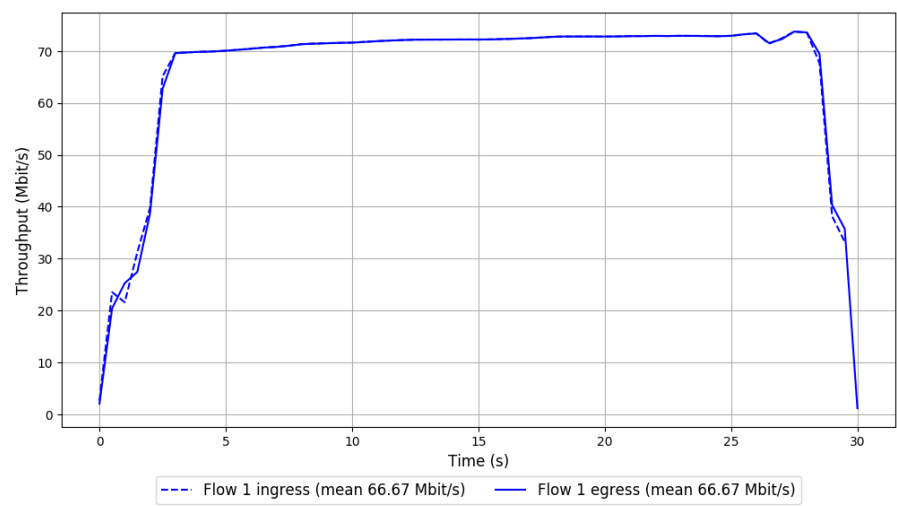
-- Flow 1:

Average throughput: 66.67 Mbit/s

95th percentile per-packet one-way delay: 52.814 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-13 06:39:28

End at: 2018-02-13 06:39:58

Below is generated by plot.py at 2018-02-13 10:00:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 53.274 ms

Loss rate: 0.01%

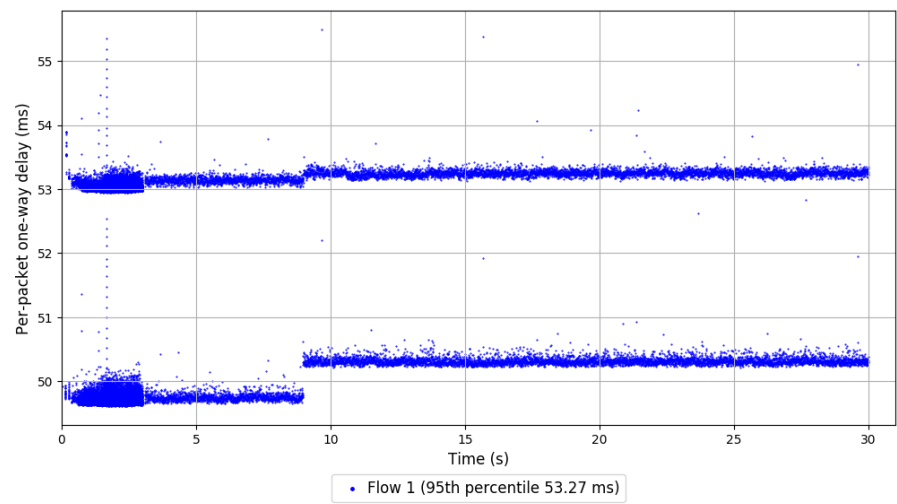
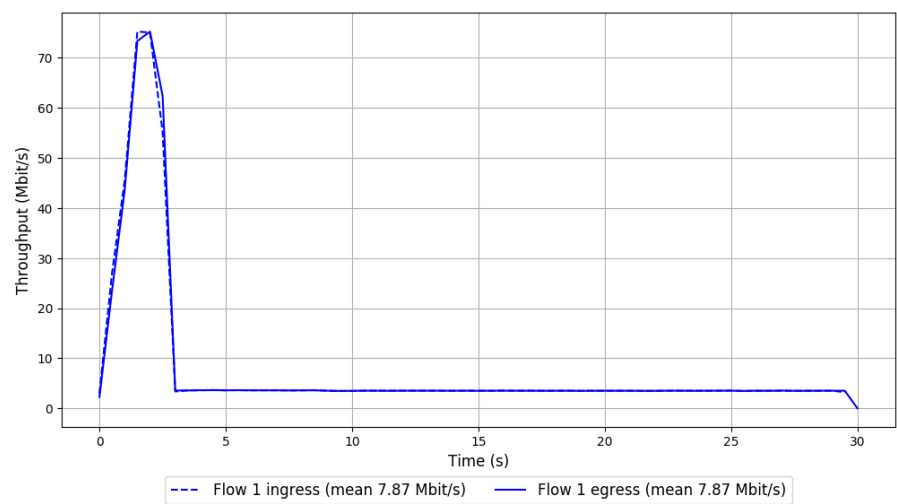
-- Flow 1:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 53.274 ms

Loss rate: 0.01%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-13 06:53:51

End at: 2018-02-13 06:54:21

Below is generated by plot.py at 2018-02-13 10:00:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.09 Mbit/s

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

Loss rate: 0.00%

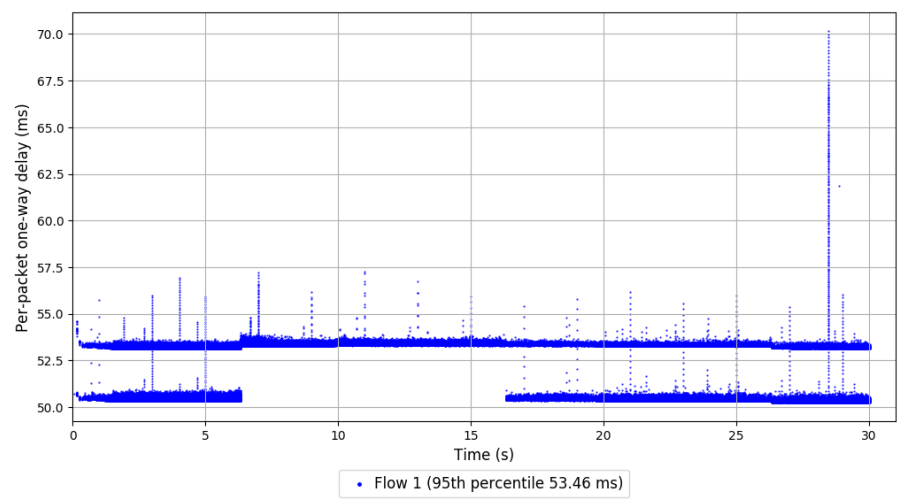
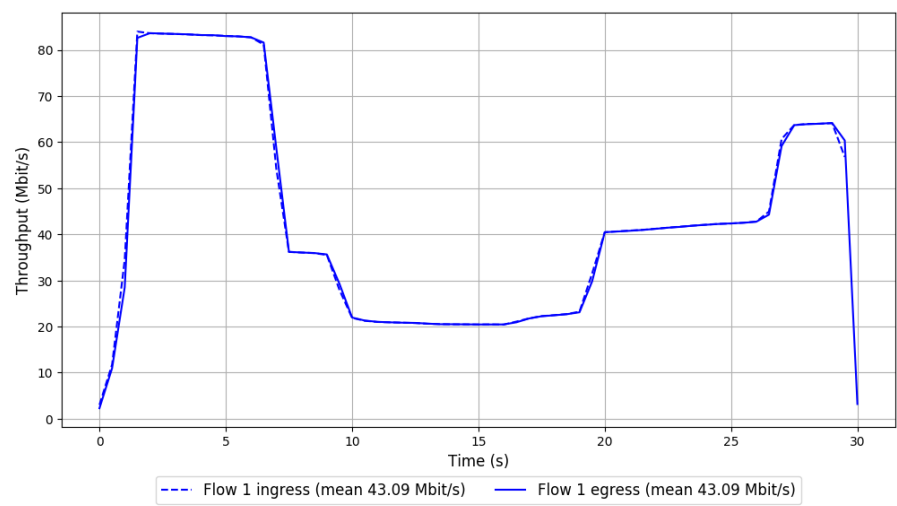
-- Flow 1:

Average throughput: 43.09 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-13 07:08:12

End at: 2018-02-13 07:08:42

Below is generated by plot.py at 2018-02-13 10:00:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.35 Mbit/s

95th percentile per-packet one-way delay: 53.525 ms

Loss rate: 0.00%

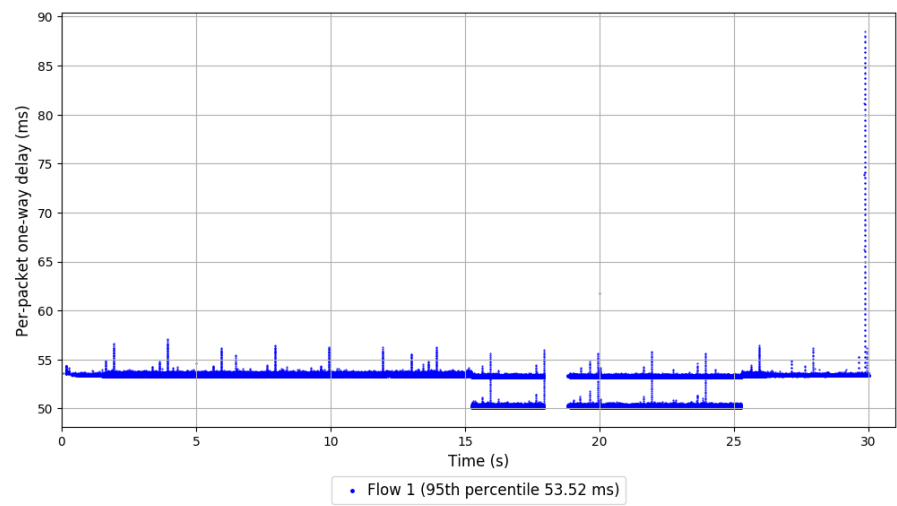
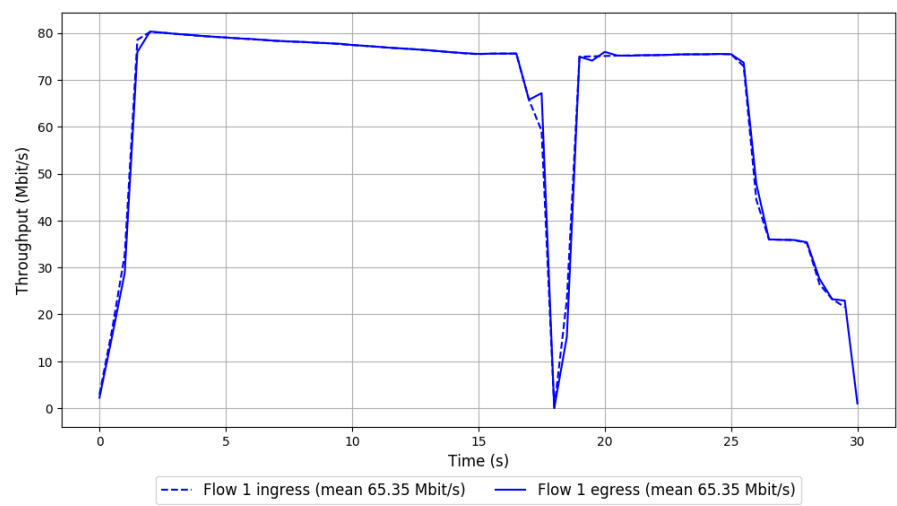
-- Flow 1:

Average throughput: 65.35 Mbit/s

95th percentile per-packet one-way delay: 53.525 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-13 07:22:42

End at: 2018-02-13 07:23:12

Below is generated by plot.py at 2018-02-13 10:00:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.01 Mbit/s

95th percentile per-packet one-way delay: 53.530 ms

Loss rate: 0.00%

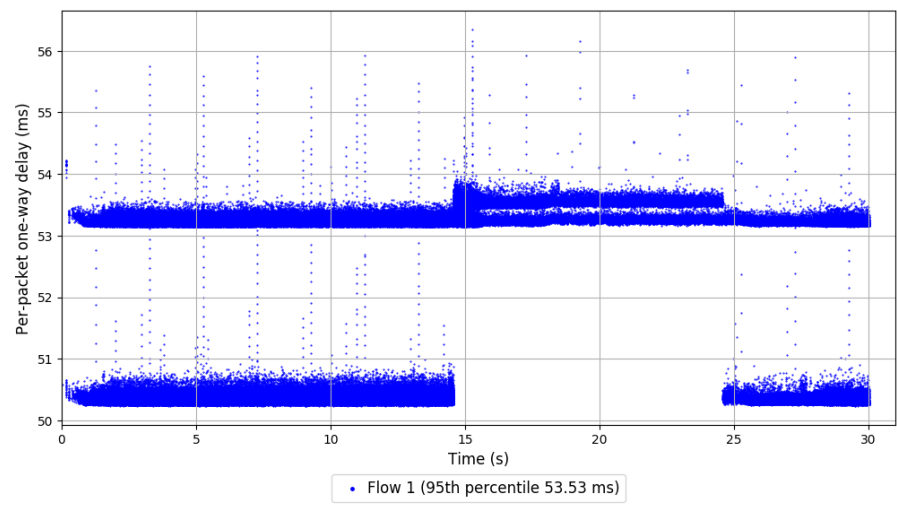
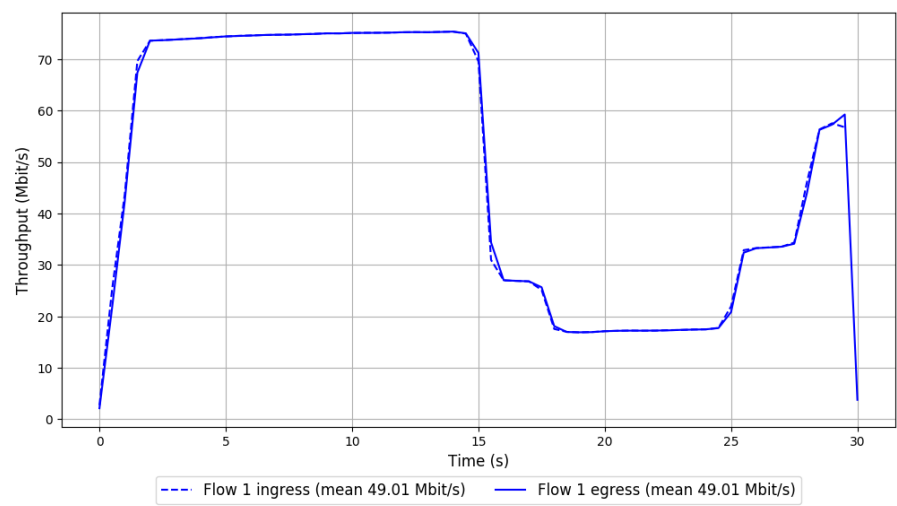
-- Flow 1:

Average throughput: 49.01 Mbit/s

95th percentile per-packet one-way delay: 53.530 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-13 07:37:04

End at: 2018-02-13 07:37:34

Below is generated by plot.py at 2018-02-13 10:00:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.54 Mbit/s

95th percentile per-packet one-way delay: 53.448 ms

Loss rate: 0.00%

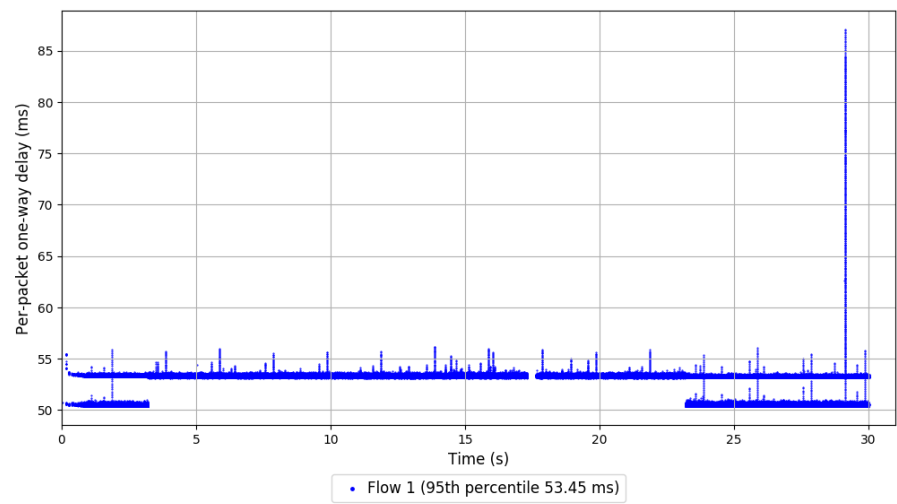
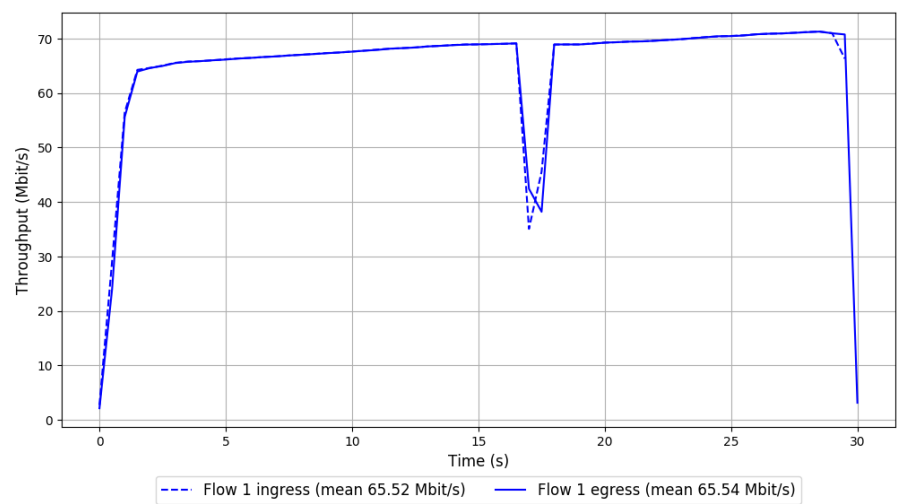
-- Flow 1:

Average throughput: 65.54 Mbit/s

95th percentile per-packet one-way delay: 53.448 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-13 07:51:40

End at: 2018-02-13 07:52:10

Below is generated by plot.py at 2018-02-13 10:01:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.74 Mbit/s

95th percentile per-packet one-way delay: 53.278 ms

Loss rate: 0.01%

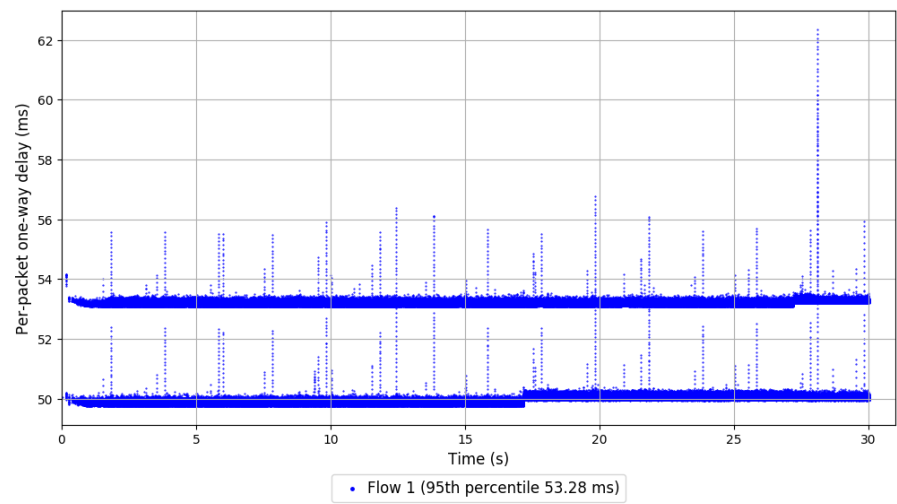
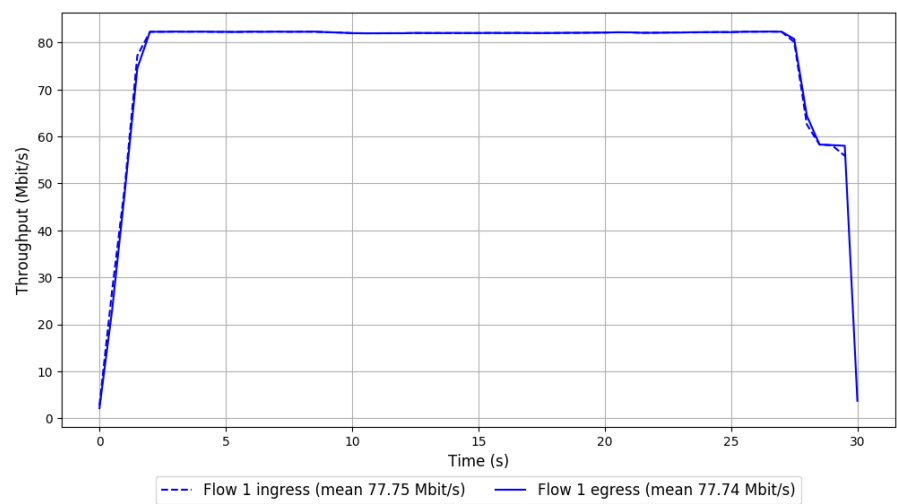
-- Flow 1:

Average throughput: 77.74 Mbit/s

95th percentile per-packet one-way delay: 53.278 ms

Loss rate: 0.01%

Run 10: Report of Copa — Data Link

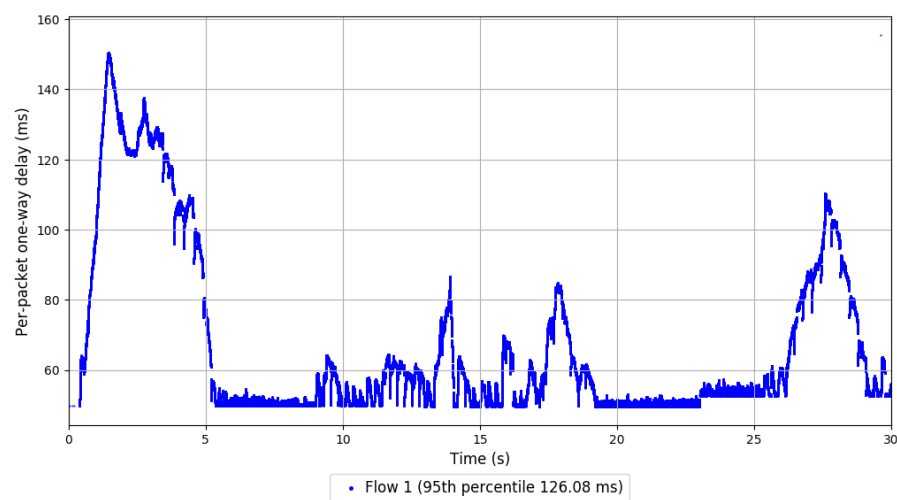
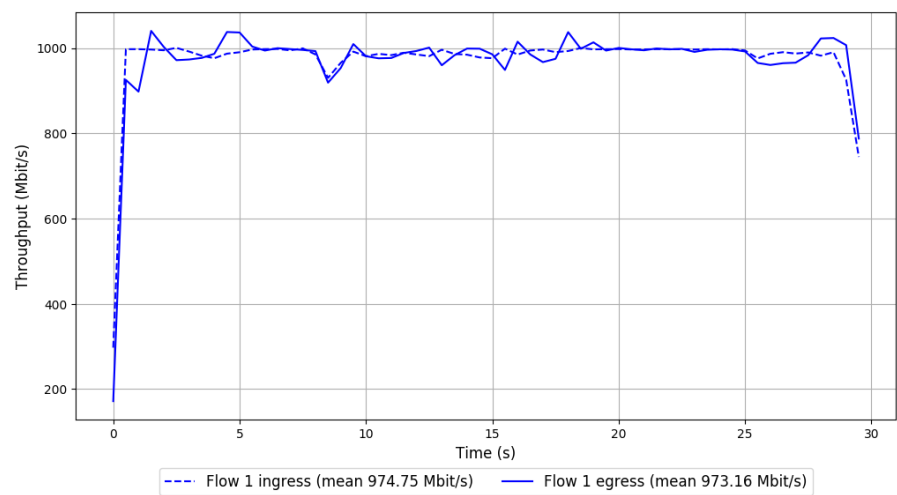


```
Run 1: Statistics of FillP

Start at: 2018-02-13 05:42:44
End at: 2018-02-13 05:43:14

# Below is generated by plot.py at 2018-02-13 10:17:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 973.16 Mbit/s
95th percentile per-packet one-way delay: 126.076 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 973.16 Mbit/s
95th percentile per-packet one-way delay: 126.076 ms
Loss rate: 0.15%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-13 05:57:12

End at: 2018-02-13 05:57:42

Below is generated by plot.py at 2018-02-13 10:17:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 975.59 Mbit/s

95th percentile per-packet one-way delay: 105.226 ms

Loss rate: 0.22%

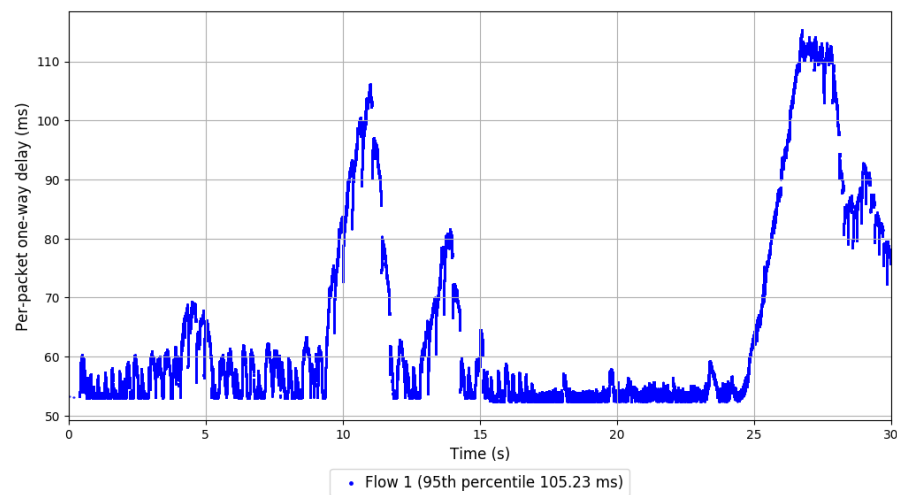
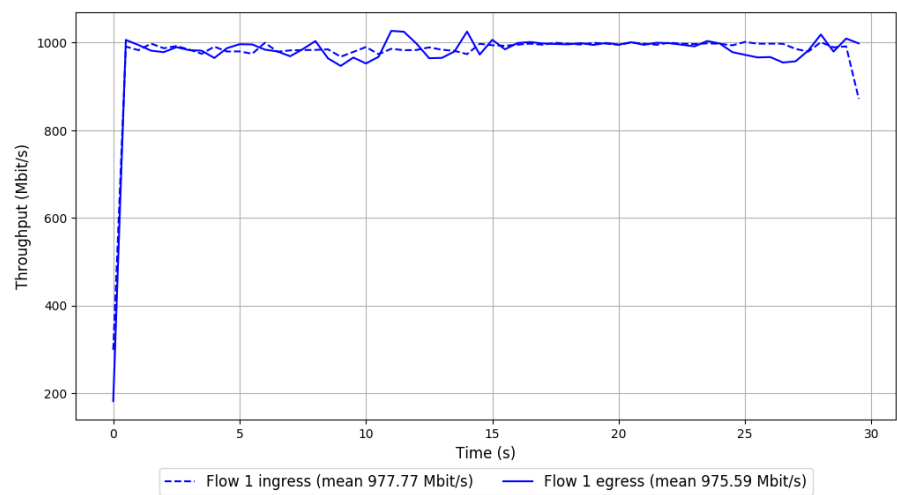
-- Flow 1:

Average throughput: 975.59 Mbit/s

95th percentile per-packet one-way delay: 105.226 ms

Loss rate: 0.22%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-13 06:11:37

End at: 2018-02-13 06:12:07

Below is generated by plot.py at 2018-02-13 10:17:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 979.85 Mbit/s

95th percentile per-packet one-way delay: 81.475 ms

Loss rate: 0.01%

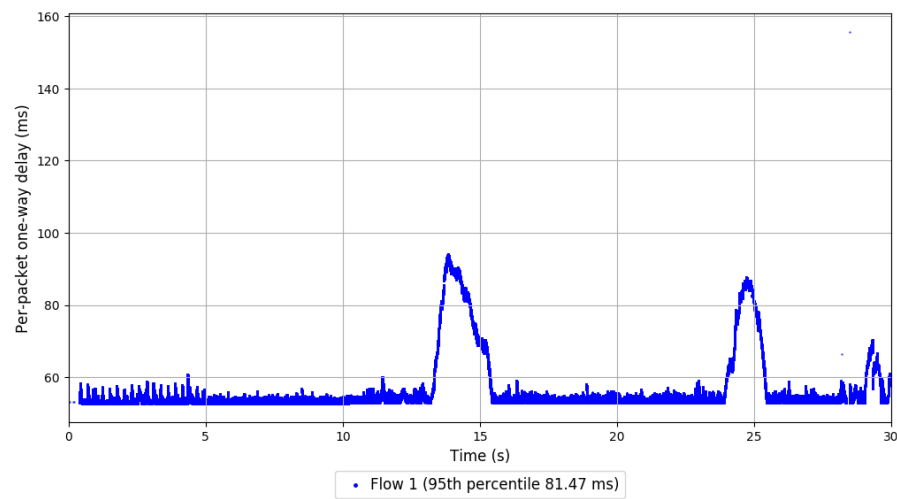
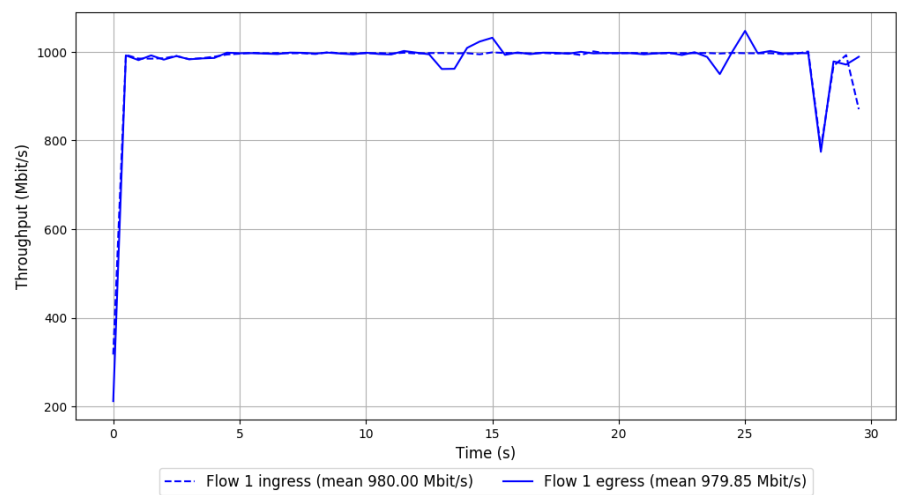
-- Flow 1:

Average throughput: 979.85 Mbit/s

95th percentile per-packet one-way delay: 81.475 ms

Loss rate: 0.01%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-13 06:25:54

End at: 2018-02-13 06:26:24

Below is generated by plot.py at 2018-02-13 10:17:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 971.28 Mbit/s

95th percentile per-packet one-way delay: 109.692 ms

Loss rate: 0.35%

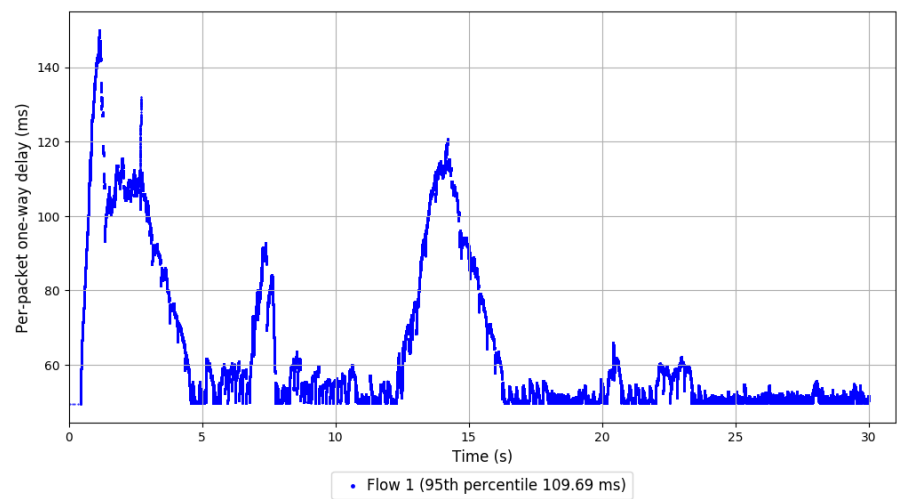
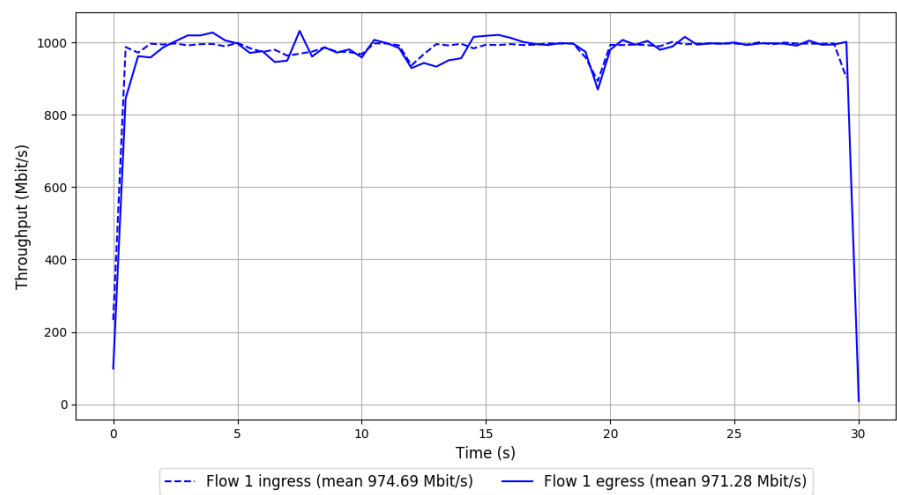
-- Flow 1:

Average throughput: 971.28 Mbit/s

95th percentile per-packet one-way delay: 109.692 ms

Loss rate: 0.35%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-13 06:40:05

End at: 2018-02-13 06:40:36

Below is generated by plot.py at 2018-02-13 10:17:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 965.00 Mbit/s

95th percentile per-packet one-way delay: 112.744 ms

Loss rate: 0.88%

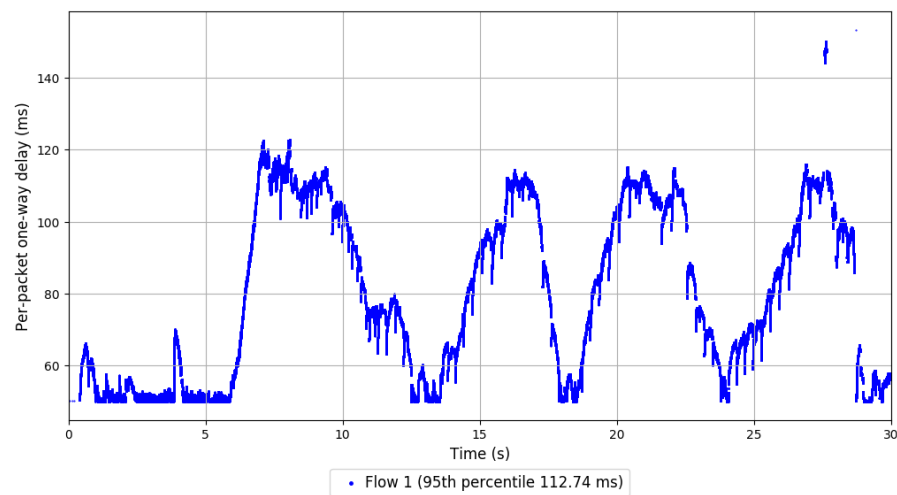
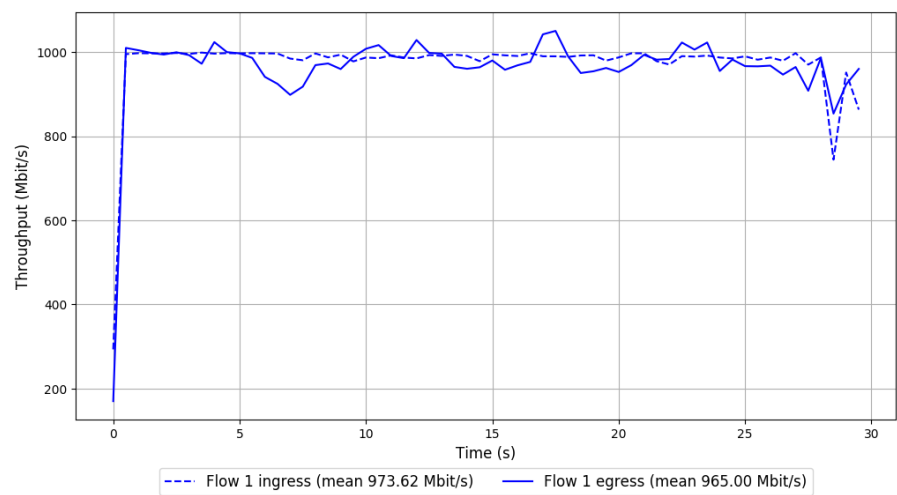
-- Flow 1:

Average throughput: 965.00 Mbit/s

95th percentile per-packet one-way delay: 112.744 ms

Loss rate: 0.88%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-13 06:54:32

End at: 2018-02-13 06:55:02

Below is generated by plot.py at 2018-02-13 10:17:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 927.28 Mbit/s

95th percentile per-packet one-way delay: 121.043 ms

Loss rate: 5.15%

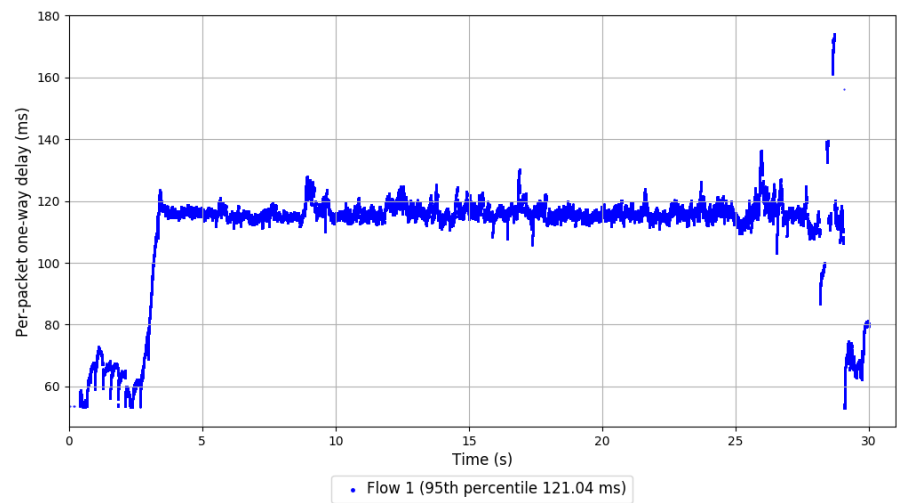
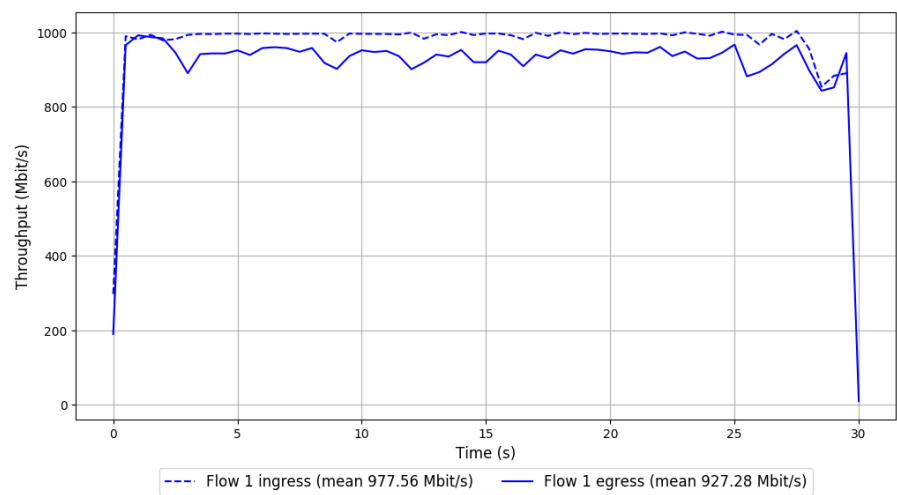
-- Flow 1:

Average throughput: 927.28 Mbit/s

95th percentile per-packet one-way delay: 121.043 ms

Loss rate: 5.15%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-13 07:08:54

End at: 2018-02-13 07:09:24

Below is generated by plot.py at 2018-02-13 10:18:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 975.22 Mbit/s

95th percentile per-packet one-way delay: 111.414 ms

Loss rate: 0.16%

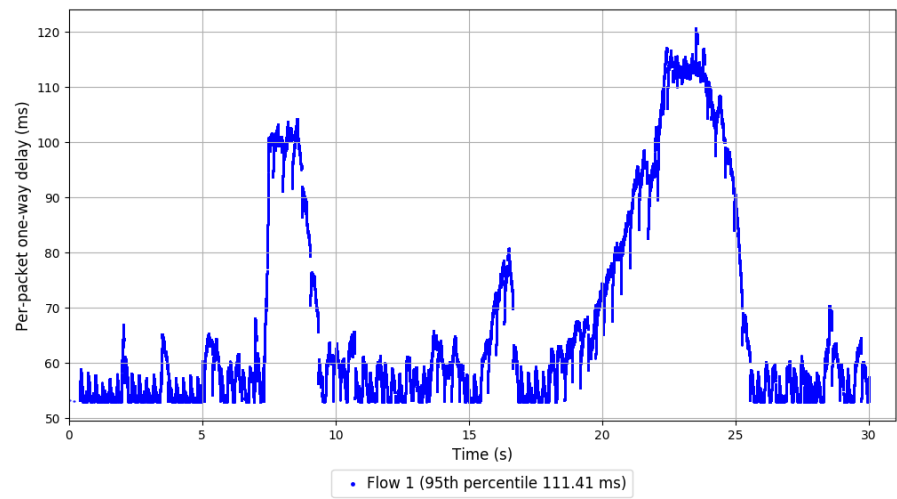
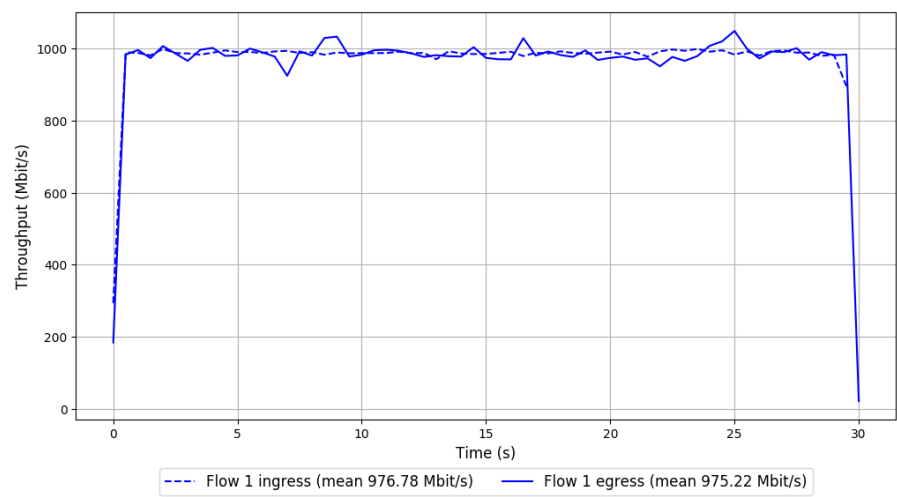
-- Flow 1:

Average throughput: 975.22 Mbit/s

95th percentile per-packet one-way delay: 111.414 ms

Loss rate: 0.16%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-13 07:23:24

End at: 2018-02-13 07:23:54

Below is generated by plot.py at 2018-02-13 10:19:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 946.08 Mbit/s

95th percentile per-packet one-way delay: 118.705 ms

Loss rate: 2.98%

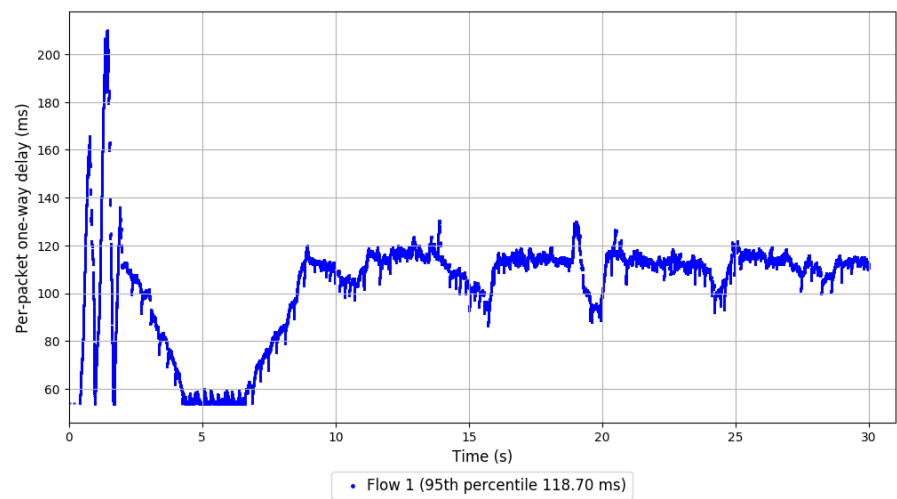
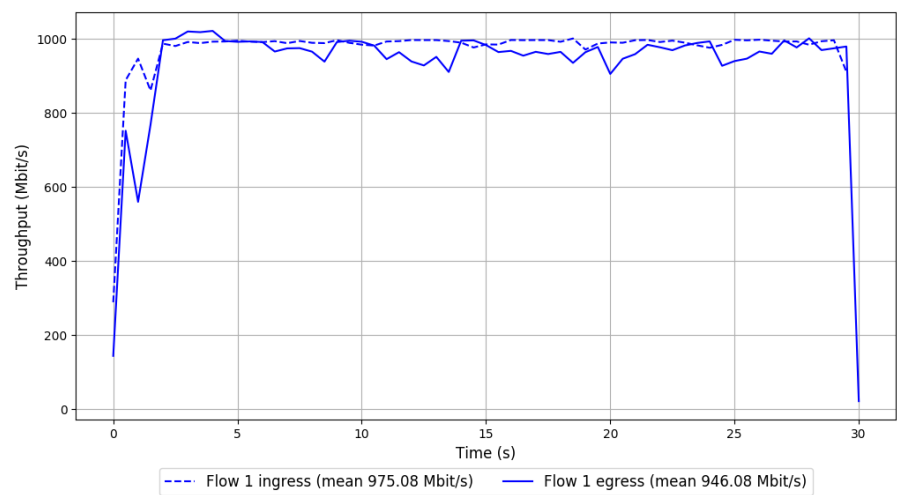
-- Flow 1:

Average throughput: 946.08 Mbit/s

95th percentile per-packet one-way delay: 118.705 ms

Loss rate: 2.98%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-13 07:37:46

End at: 2018-02-13 07:38:16

Below is generated by plot.py at 2018-02-13 10:33:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 868.82 Mbit/s

95th percentile per-packet one-way delay: 126.627 ms

Loss rate: 8.46%

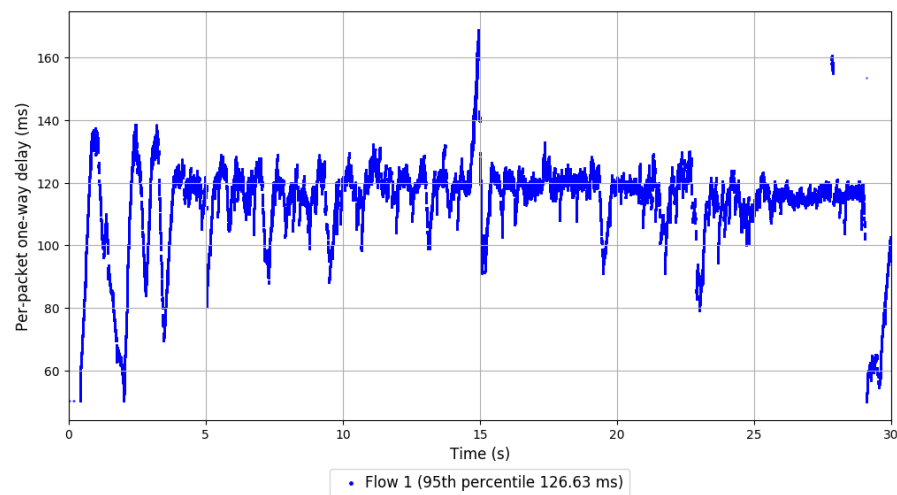
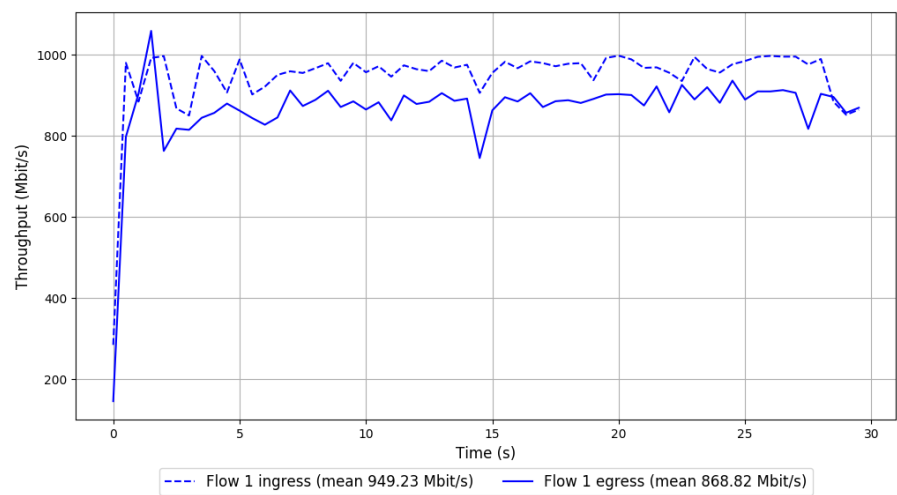
-- Flow 1:

Average throughput: 868.82 Mbit/s

95th percentile per-packet one-way delay: 126.627 ms

Loss rate: 8.46%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-13 07:52:23

End at: 2018-02-13 07:52:53

Below is generated by plot.py at 2018-02-13 10:34:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 913.12 Mbit/s

95th percentile per-packet one-way delay: 118.262 ms

Loss rate: 5.96%

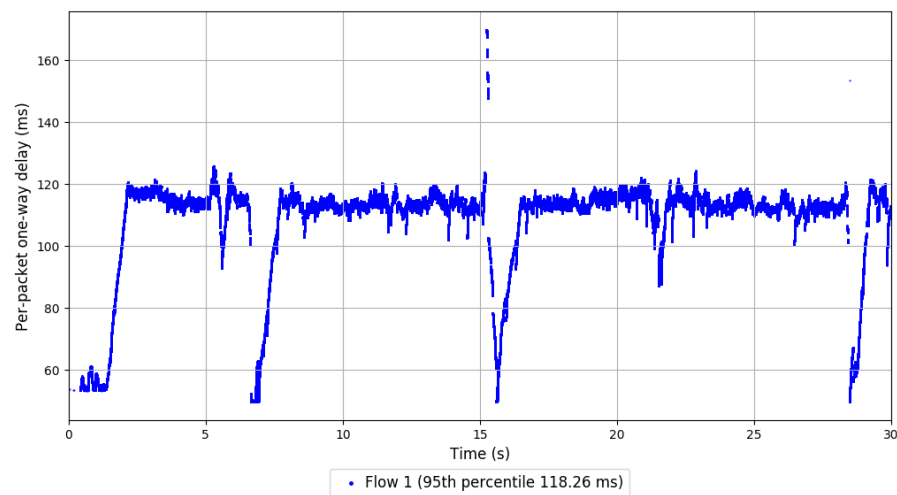
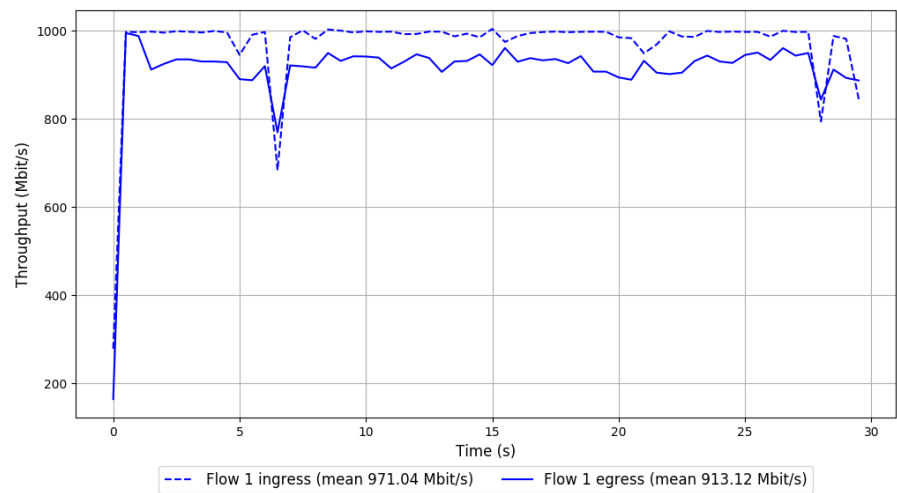
-- Flow 1:

Average throughput: 913.12 Mbit/s

95th percentile per-packet one-way delay: 118.262 ms

Loss rate: 5.96%

Run 10: Report of FillP — Data Link

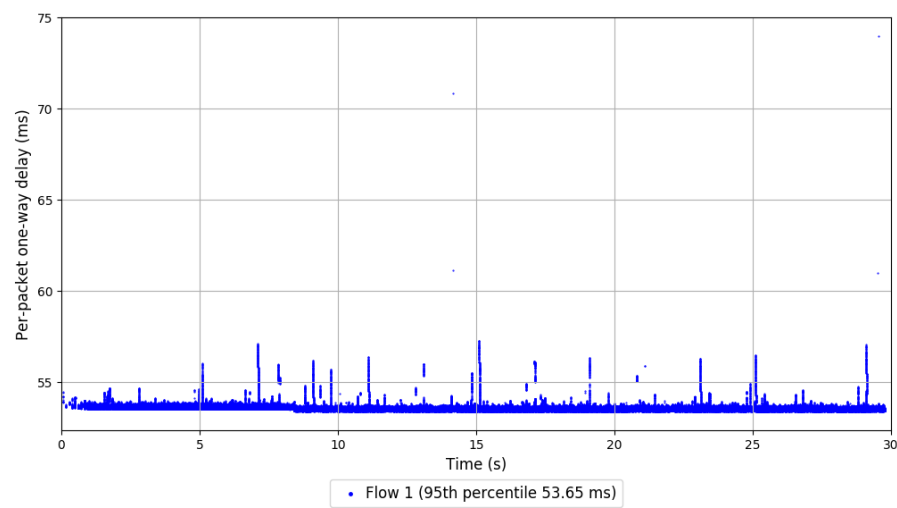
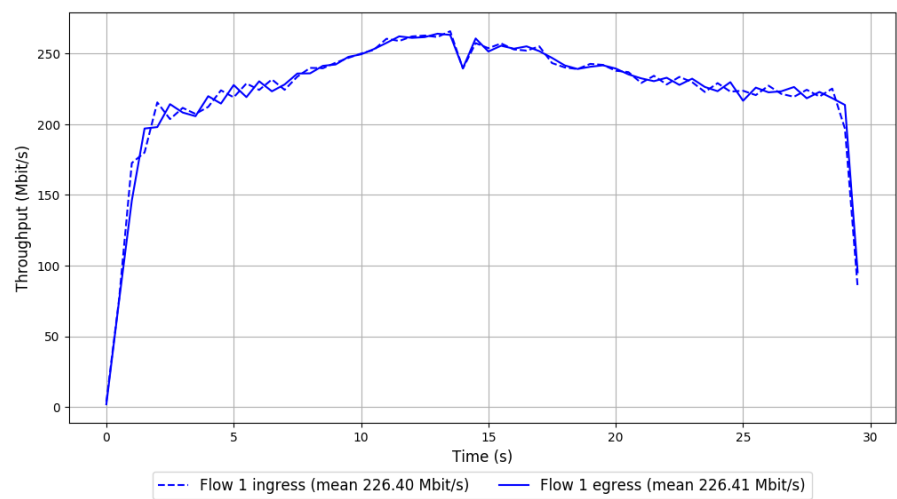


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-13 05:33:08
End at: 2018-02-13 05:33:38

# Below is generated by plot.py at 2018-02-13 10:34:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 226.41 Mbit/s
95th percentile per-packet one-way delay: 53.653 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 226.41 Mbit/s
95th percentile per-packet one-way delay: 53.653 ms
Loss rate: 0.00%
```

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

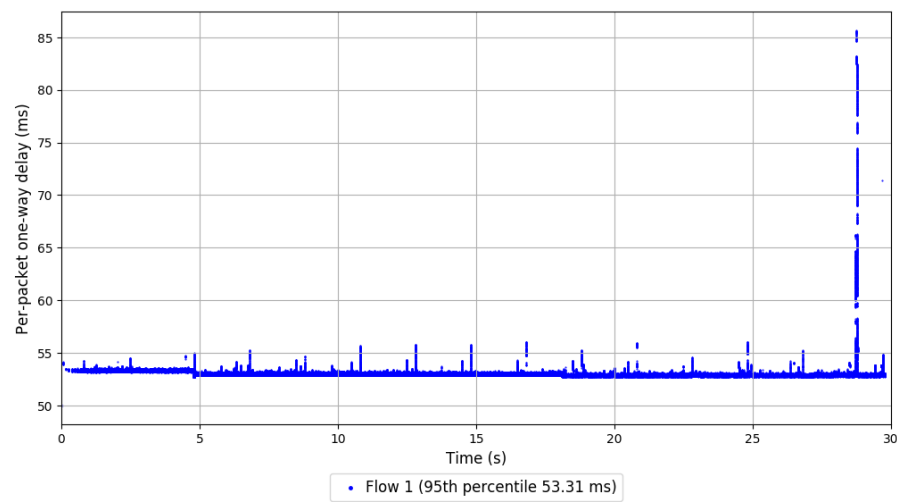
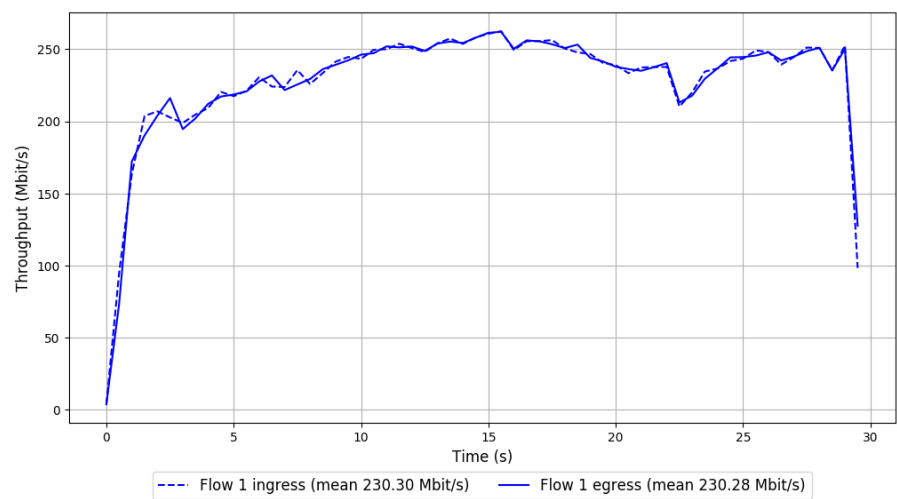


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-02-13 05:47:29
End at: 2018-02-13 05:47:59

# Below is generated by plot.py at 2018-02-13 10:34:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 230.28 Mbit/s
95th percentile per-packet one-way delay: 53.314 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 230.28 Mbit/s
95th percentile per-packet one-way delay: 53.314 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-13 06:01:58

End at: 2018-02-13 06:02:28

Below is generated by plot.py at 2018-02-13 10:34:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.66 Mbit/s

95th percentile per-packet one-way delay: 52.918 ms

Loss rate: 0.01%

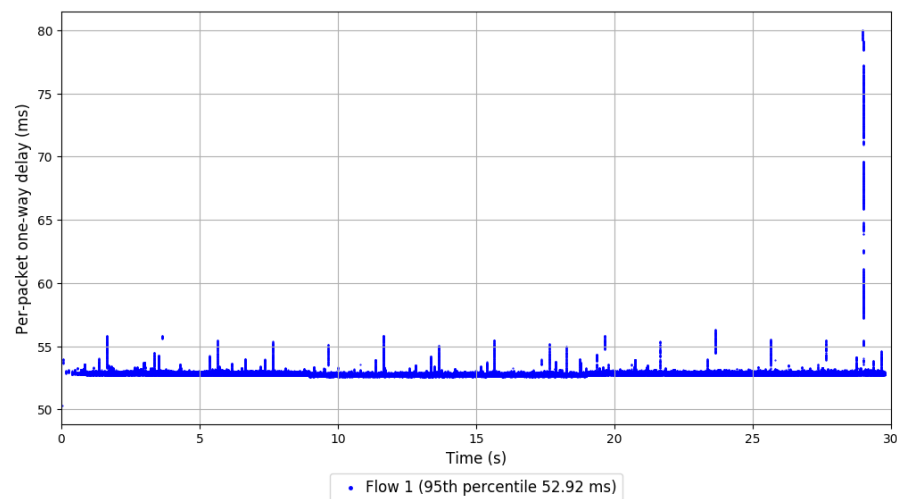
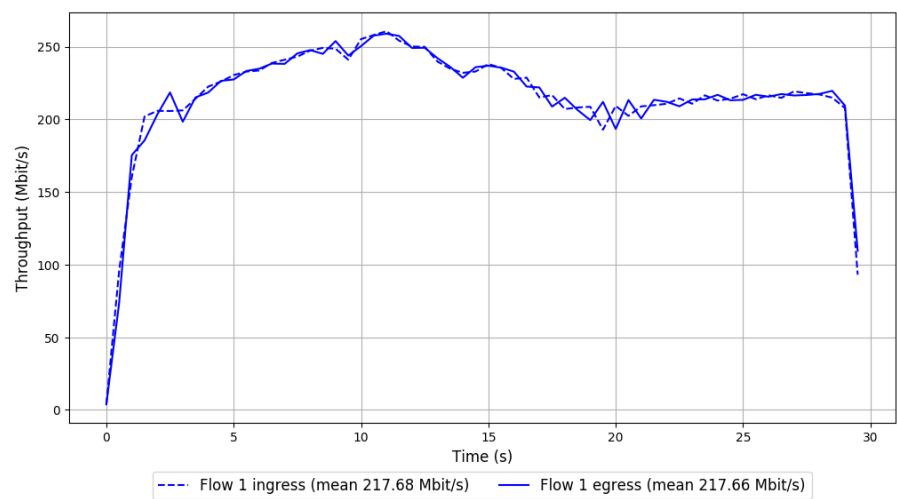
-- Flow 1:

Average throughput: 217.66 Mbit/s

95th percentile per-packet one-way delay: 52.918 ms

Loss rate: 0.01%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-13 06:16:19

End at: 2018-02-13 06:16:49

Below is generated by plot.py at 2018-02-13 10:34:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.36 Mbit/s

95th percentile per-packet one-way delay: 52.753 ms

Loss rate: 0.02%

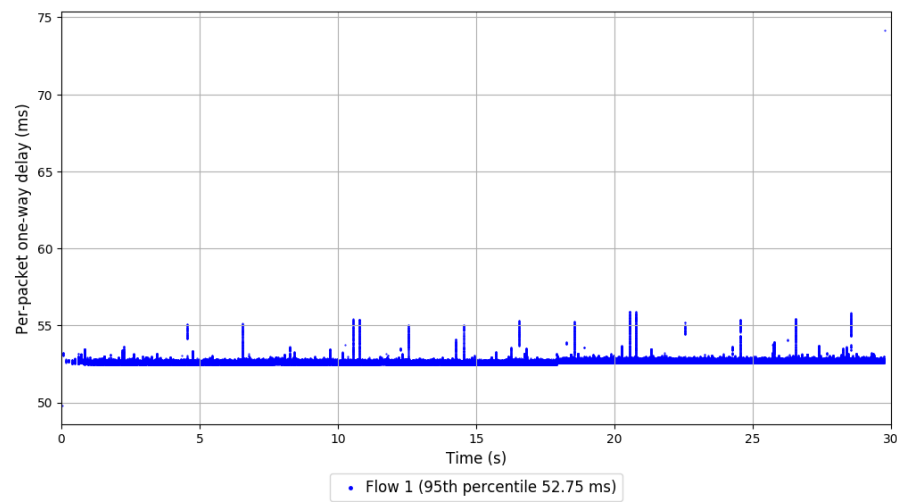
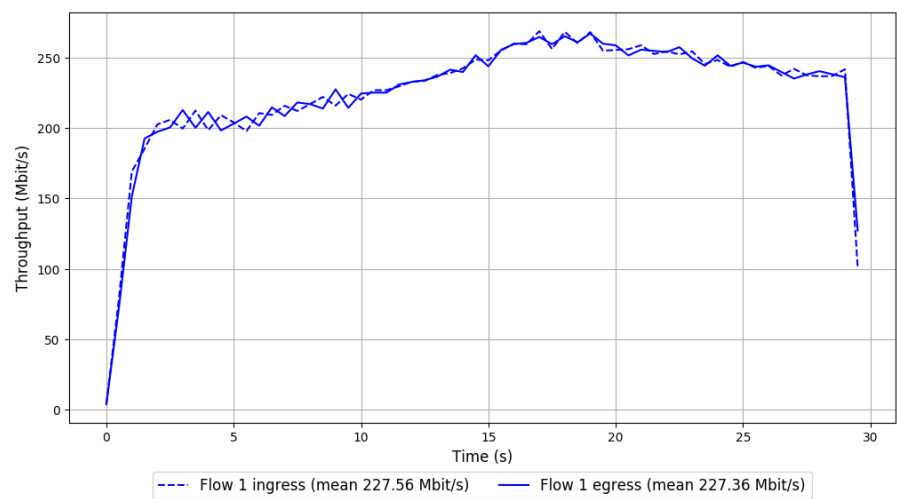
-- Flow 1:

Average throughput: 227.36 Mbit/s

95th percentile per-packet one-way delay: 52.753 ms

Loss rate: 0.02%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-13 06:30:39

End at: 2018-02-13 06:31:09

Below is generated by plot.py at 2018-02-13 10:34:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.47 Mbit/s

95th percentile per-packet one-way delay: 52.928 ms

Loss rate: 0.01%

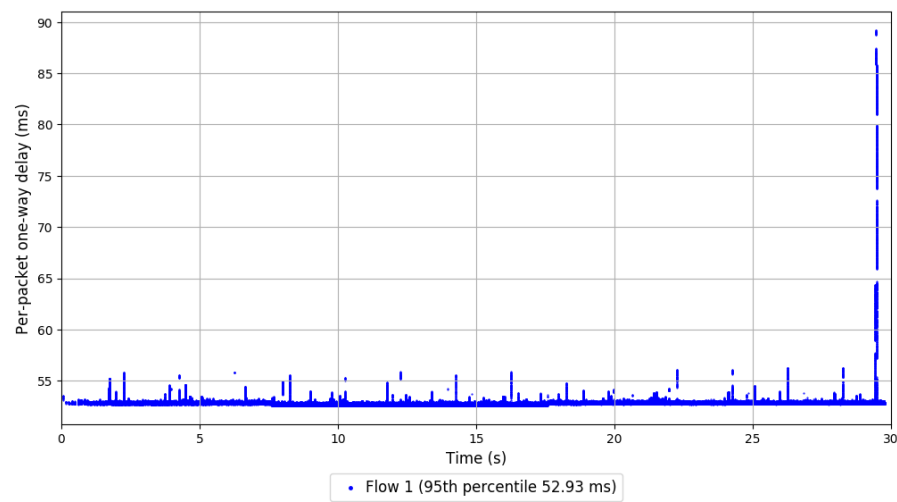
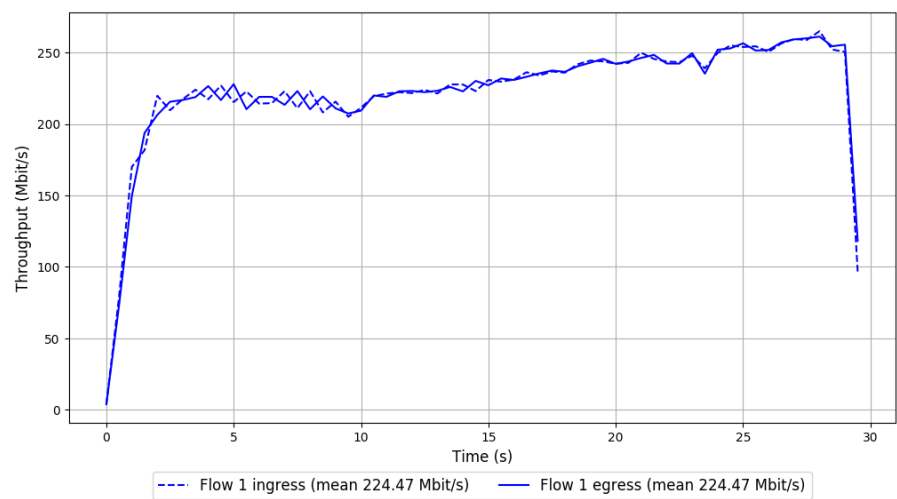
-- Flow 1:

Average throughput: 224.47 Mbit/s

95th percentile per-packet one-way delay: 52.928 ms

Loss rate: 0.01%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-13 06:44:51

End at: 2018-02-13 06:45:21

Below is generated by plot.py at 2018-02-13 10:34:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 230.97 Mbit/s

95th percentile per-packet one-way delay: 53.377 ms

Loss rate: 0.01%

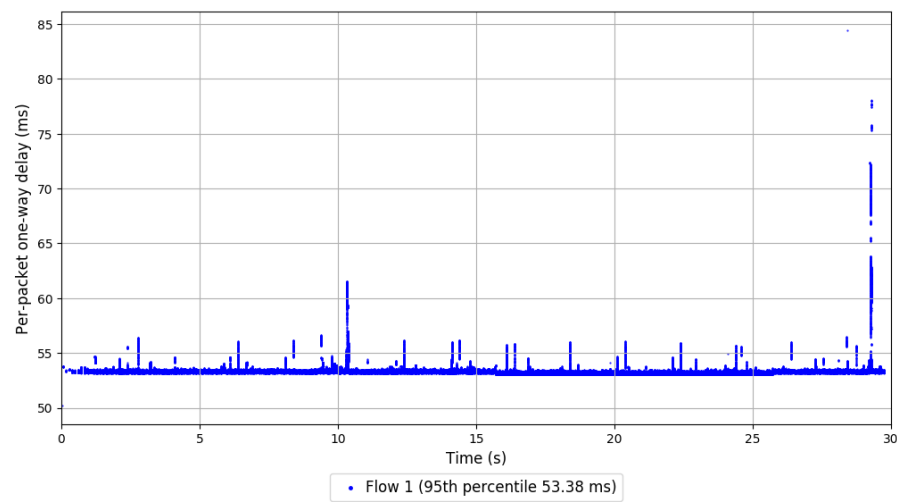
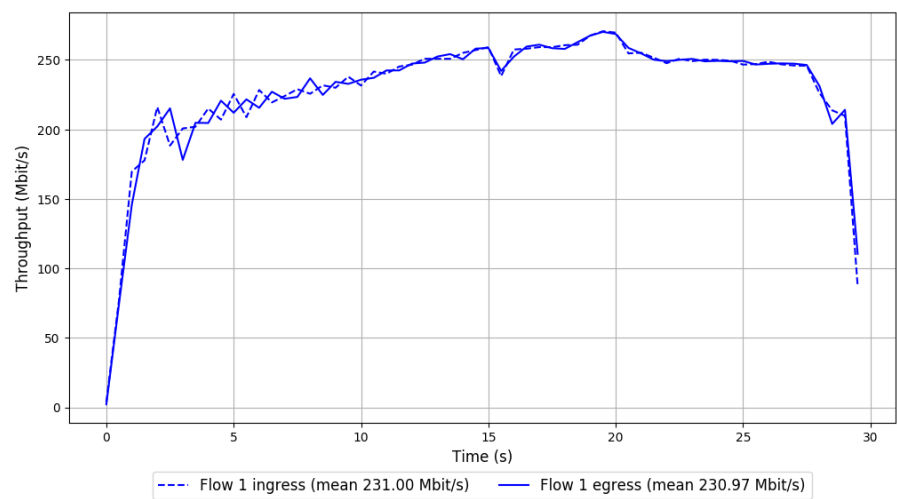
-- Flow 1:

Average throughput: 230.97 Mbit/s

95th percentile per-packet one-way delay: 53.377 ms

Loss rate: 0.01%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-13 06:59:13

End at: 2018-02-13 06:59:43

Below is generated by plot.py at 2018-02-13 10:34:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.17 Mbit/s

95th percentile per-packet one-way delay: 53.457 ms

Loss rate: 0.00%

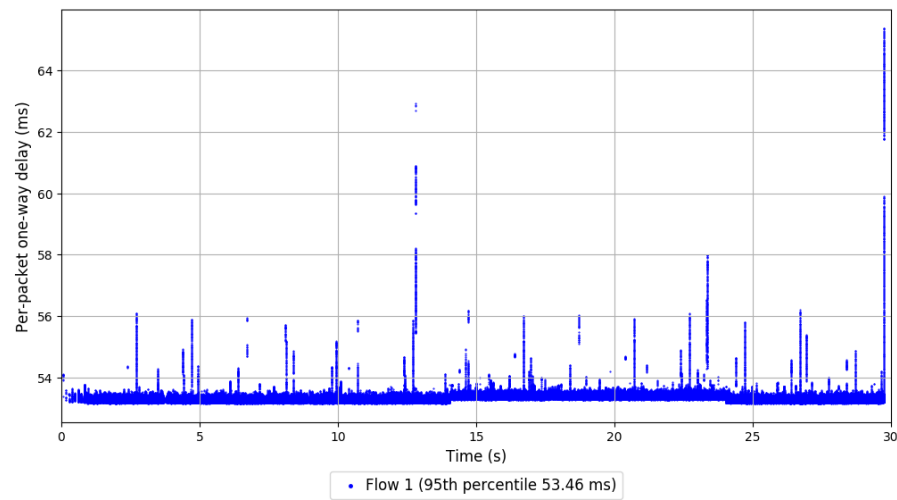
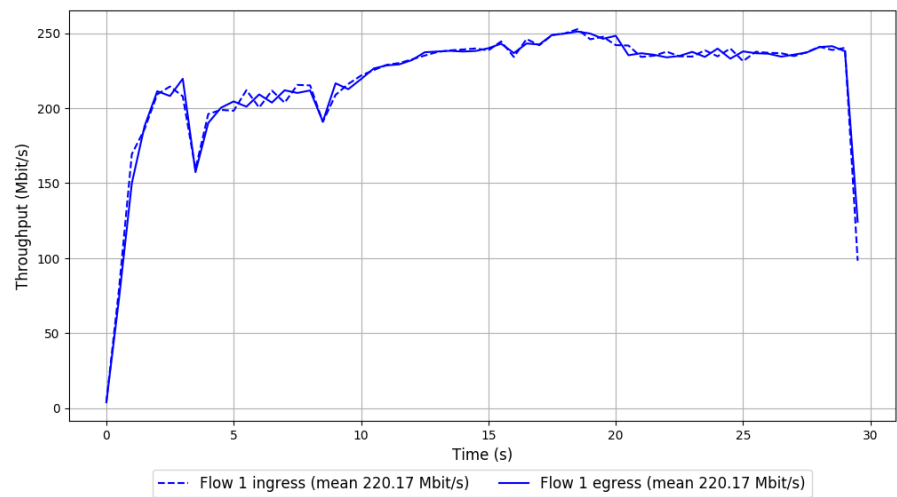
-- Flow 1:

Average throughput: 220.17 Mbit/s

95th percentile per-packet one-way delay: 53.457 ms

Loss rate: 0.00%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-13 07:13:46

End at: 2018-02-13 07:14:16

Below is generated by plot.py at 2018-02-13 10:34:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.55 Mbit/s

95th percentile per-packet one-way delay: 53.447 ms

Loss rate: 0.00%

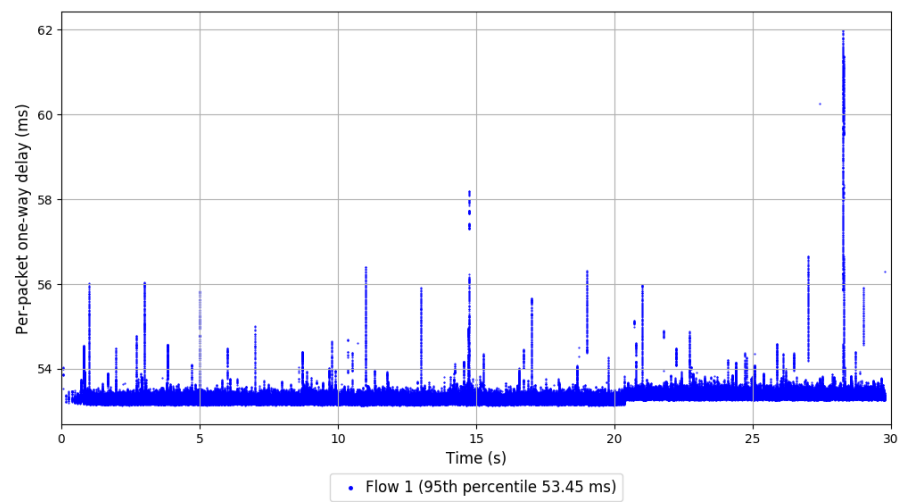
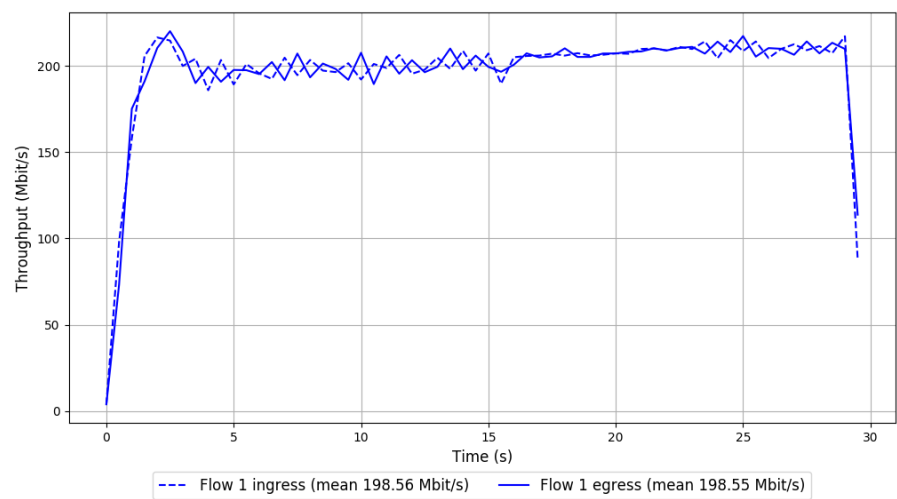
-- Flow 1:

Average throughput: 198.55 Mbit/s

95th percentile per-packet one-way delay: 53.447 ms

Loss rate: 0.00%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-13 07:28:10

End at: 2018-02-13 07:28:40

Below is generated by plot.py at 2018-02-13 10:34:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.05 Mbit/s

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

Loss rate: 0.01%

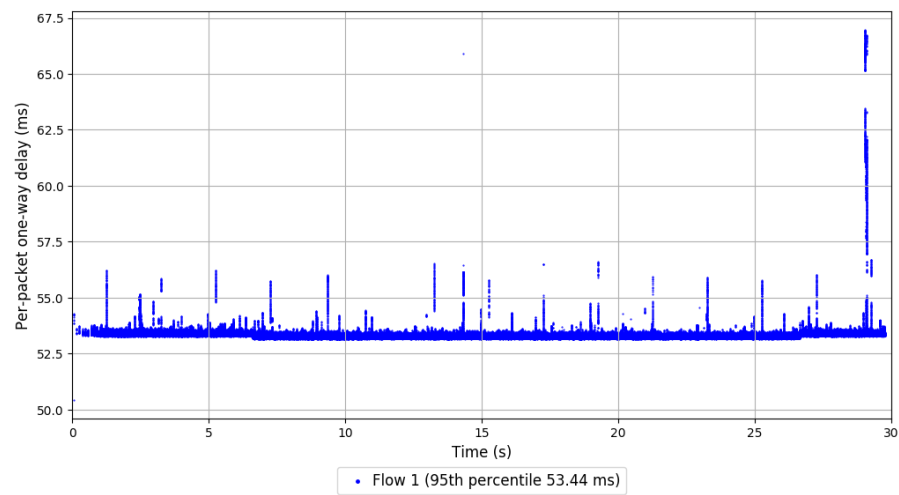
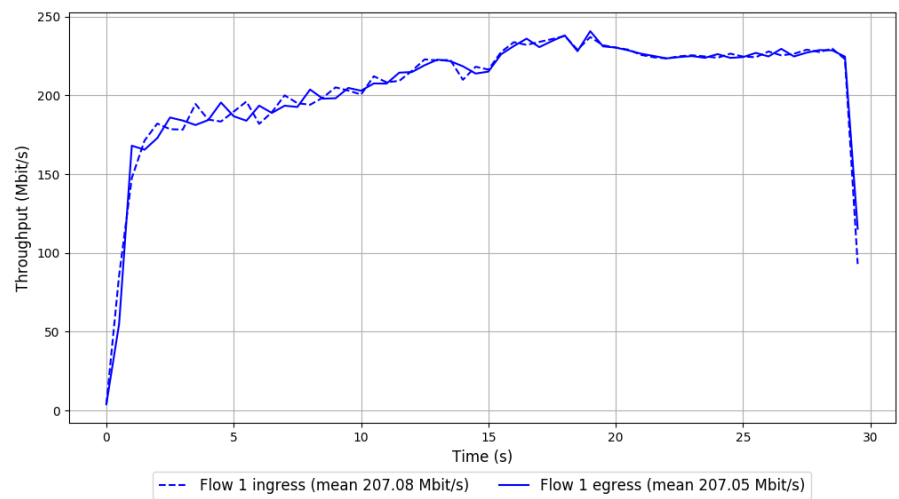
-- Flow 1:

Average throughput: 207.05 Mbit/s

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

Loss rate: 0.01%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-13 07:42:44

End at: 2018-02-13 07:43:14

Below is generated by plot.py at 2018-02-13 10:34:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.05 Mbit/s

95th percentile per-packet one-way delay: 53.434 ms

Loss rate: 0.01%

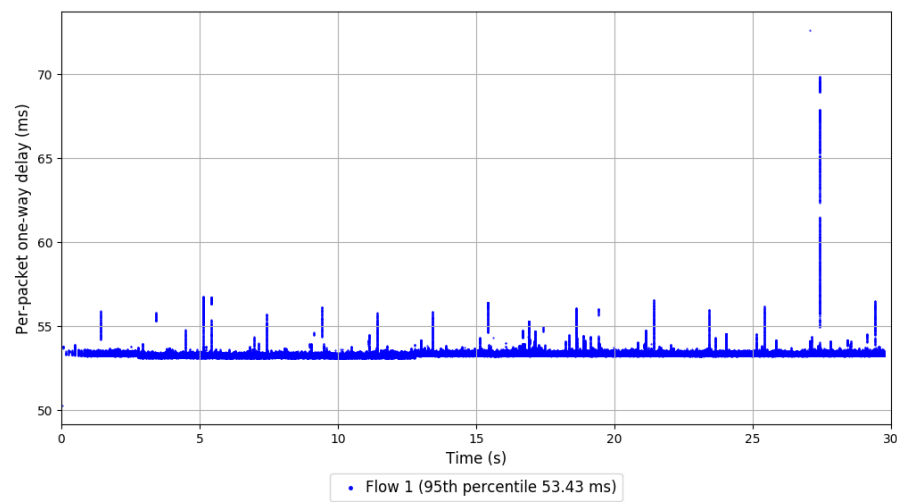
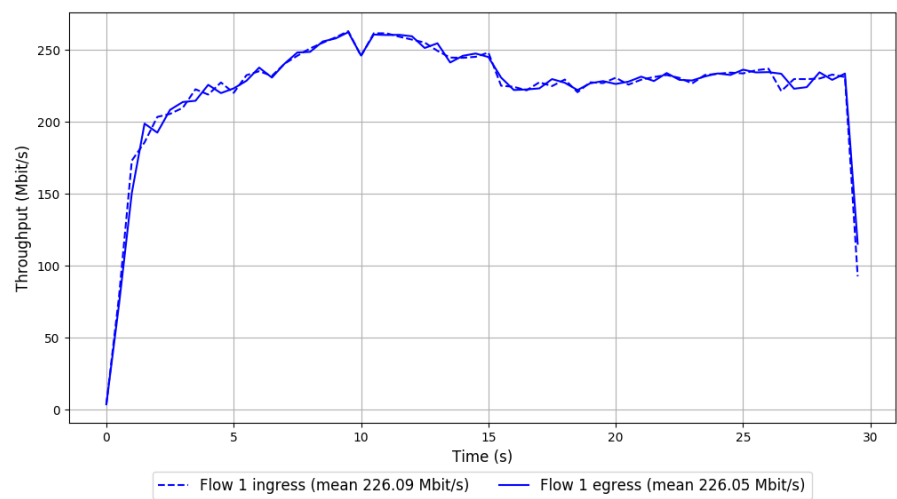
-- Flow 1:

Average throughput: 226.05 Mbit/s

95th percentile per-packet one-way delay: 53.434 ms

Loss rate: 0.01%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-02-13 05:31:30

End at: 2018-02-13 05:32:00

Below is generated by plot.py at 2018-02-13 10:34:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 374.81 Mbit/s

95th percentile per-packet one-way delay: 50.727 ms

Loss rate: 0.00%

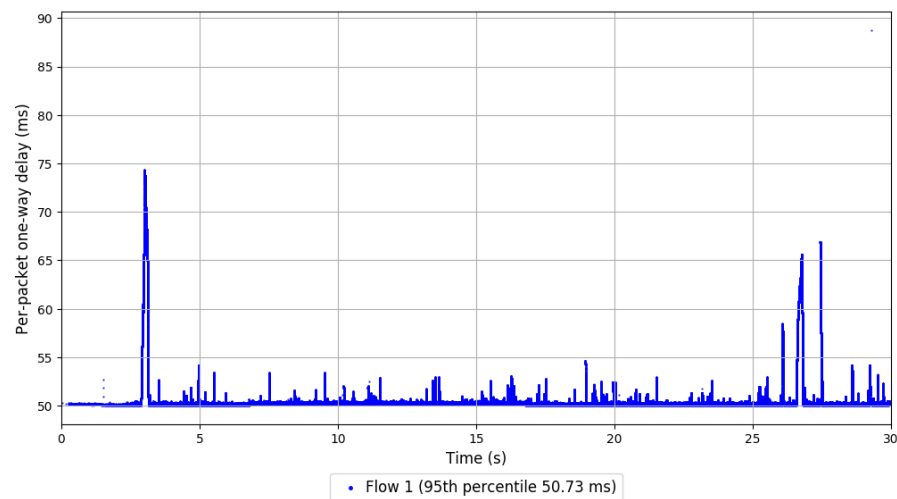
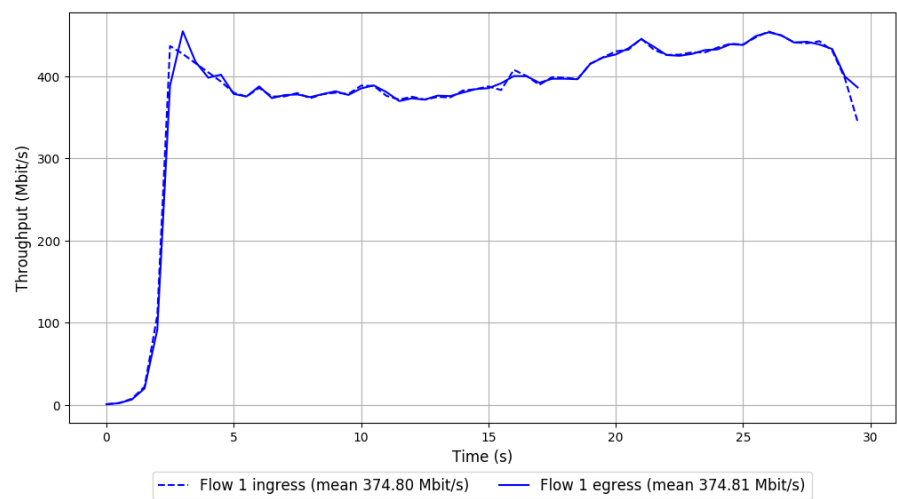
-- Flow 1:

Average throughput: 374.81 Mbit/s

95th percentile per-packet one-way delay: 50.727 ms

Loss rate: 0.00%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-13 05:45:50

End at: 2018-02-13 05:46:20

Below is generated by plot.py at 2018-02-13 10:34:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 394.86 Mbit/s

95th percentile per-packet one-way delay: 54.297 ms

Loss rate: 0.01%

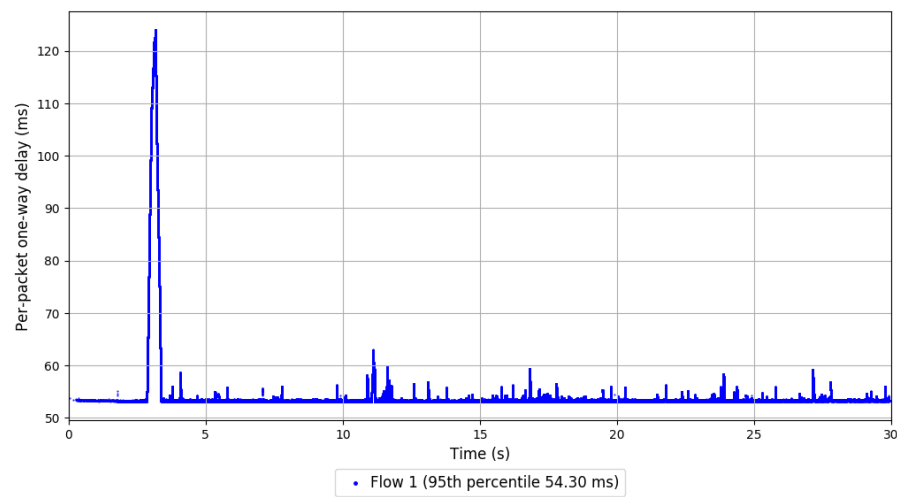
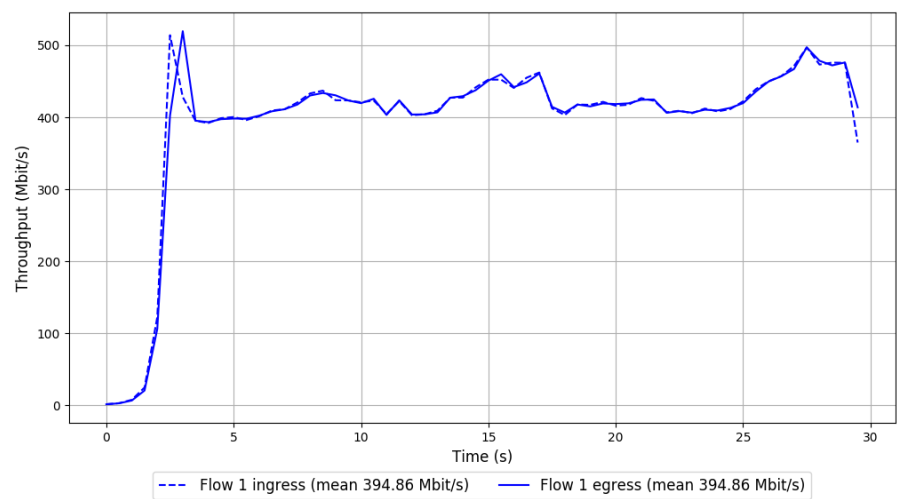
-- Flow 1:

Average throughput: 394.86 Mbit/s

95th percentile per-packet one-way delay: 54.297 ms

Loss rate: 0.01%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-13 06:00:17

End at: 2018-02-13 06:00:47

Below is generated by plot.py at 2018-02-13 10:34:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 428.73 Mbit/s

95th percentile per-packet one-way delay: 53.963 ms

Loss rate: 0.00%

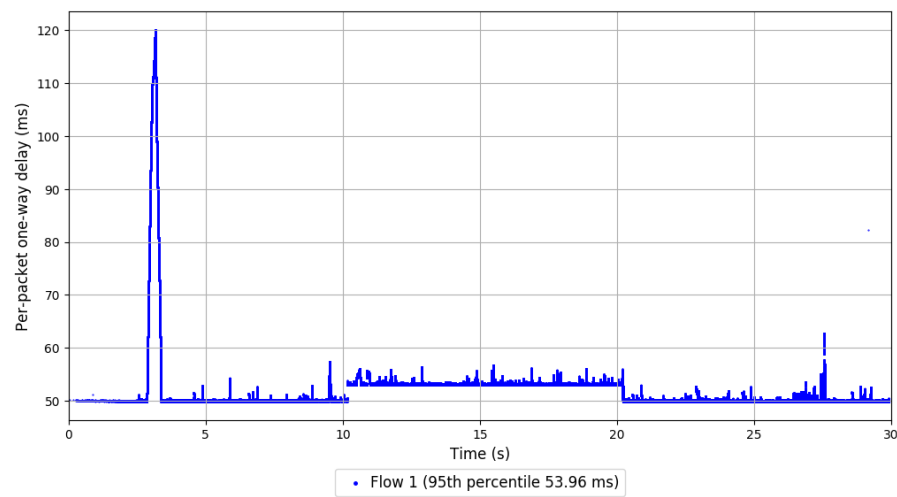
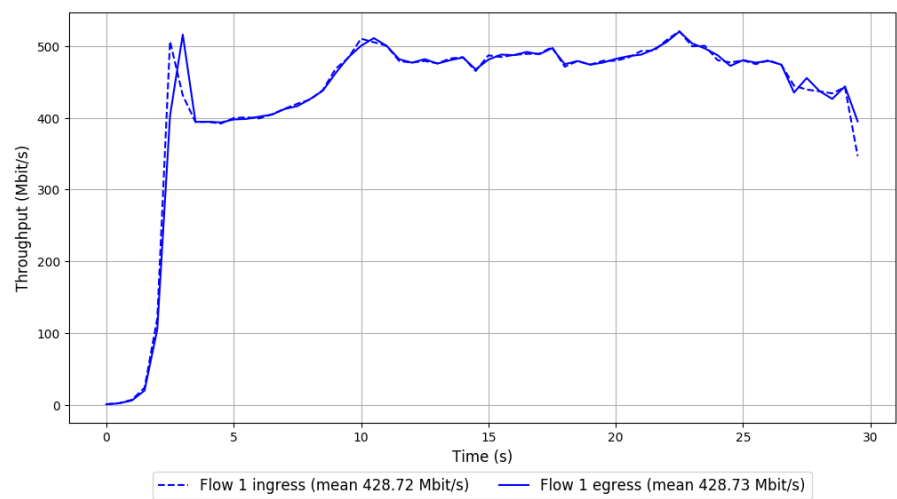
-- Flow 1:

Average throughput: 428.73 Mbit/s

95th percentile per-packet one-way delay: 53.963 ms

Loss rate: 0.00%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-13 06:14:43

End at: 2018-02-13 06:15:13

Below is generated by plot.py at 2018-02-13 10:34:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 351.94 Mbit/s

95th percentile per-packet one-way delay: 49.977 ms

Loss rate: 0.00%

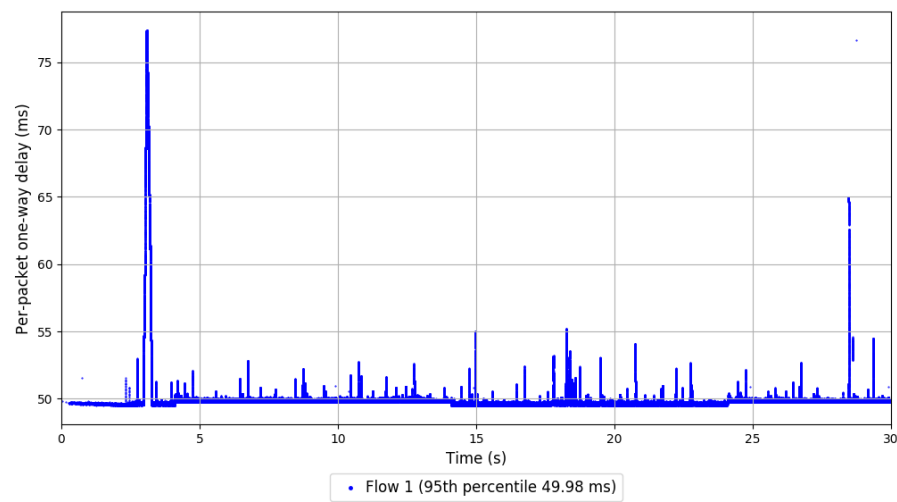
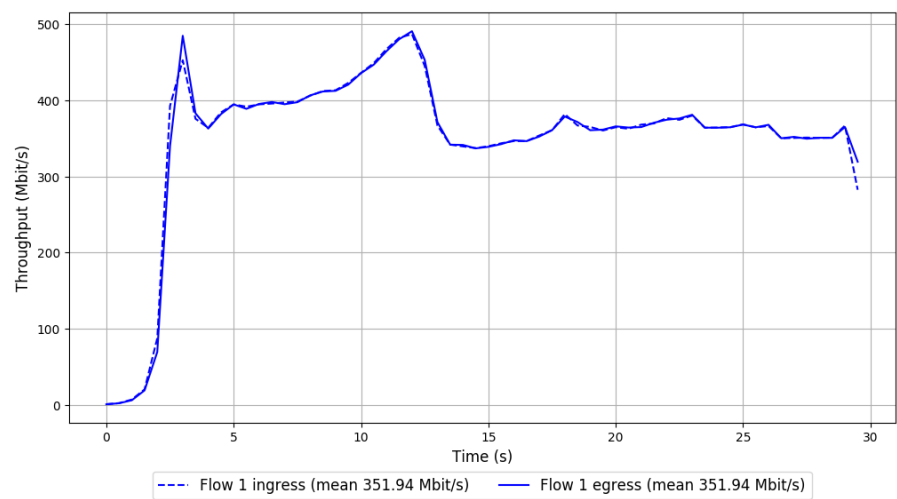
-- Flow 1:

Average throughput: 351.94 Mbit/s

95th percentile per-packet one-way delay: 49.977 ms

Loss rate: 0.00%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-13 06:29:01

End at: 2018-02-13 06:29:31

Below is generated by plot.py at 2018-02-13 10:34:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 380.29 Mbit/s

95th percentile per-packet one-way delay: 56.611 ms

Loss rate: 0.27%

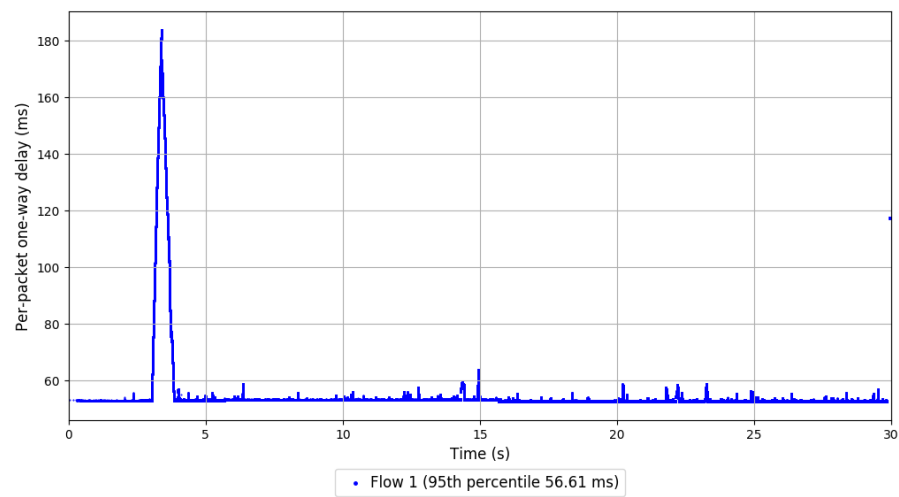
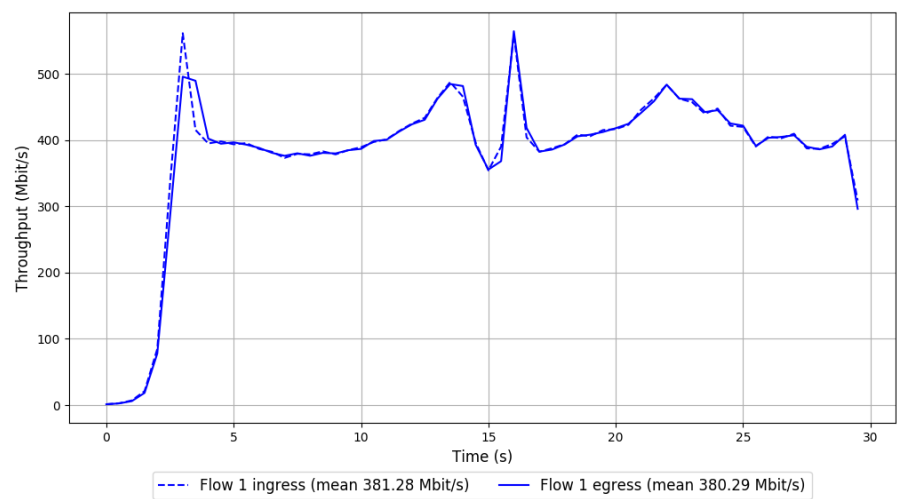
-- Flow 1:

Average throughput: 380.29 Mbit/s

95th percentile per-packet one-way delay: 56.611 ms

Loss rate: 0.27%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-13 06:43:11

End at: 2018-02-13 06:43:41

Below is generated by plot.py at 2018-02-13 10:34:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 409.84 Mbit/s

95th percentile per-packet one-way delay: 53.826 ms

Loss rate: 0.01%

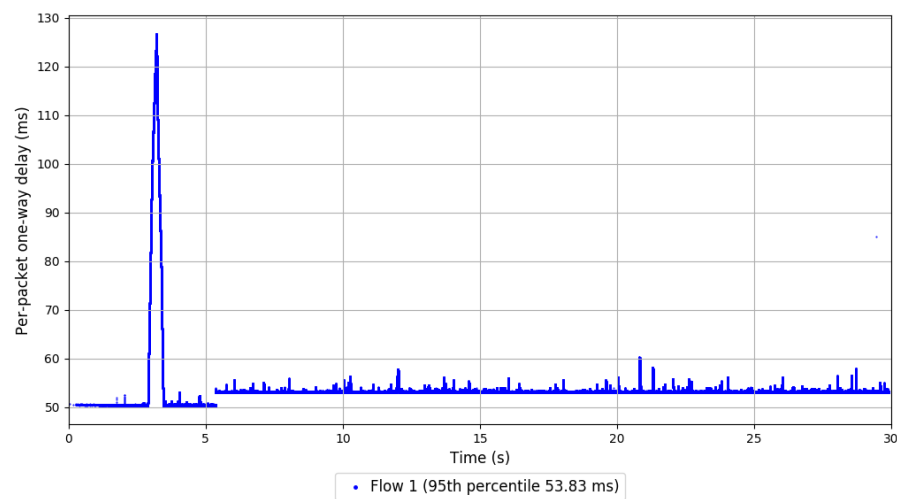
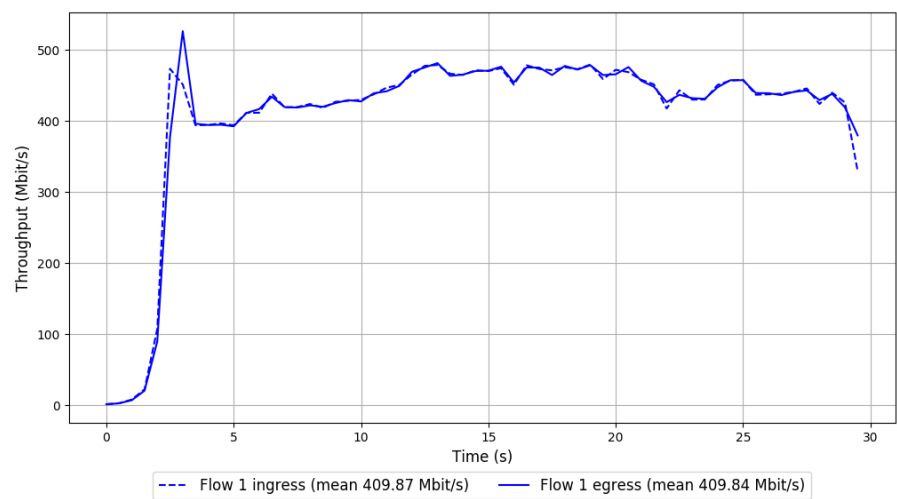
-- Flow 1:

Average throughput: 409.84 Mbit/s

95th percentile per-packet one-way delay: 53.826 ms

Loss rate: 0.01%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-13 06:57:33

End at: 2018-02-13 06:58:03

Below is generated by plot.py at 2018-02-13 10:36:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 401.73 Mbit/s

95th percentile per-packet one-way delay: 53.923 ms

Loss rate: 0.00%

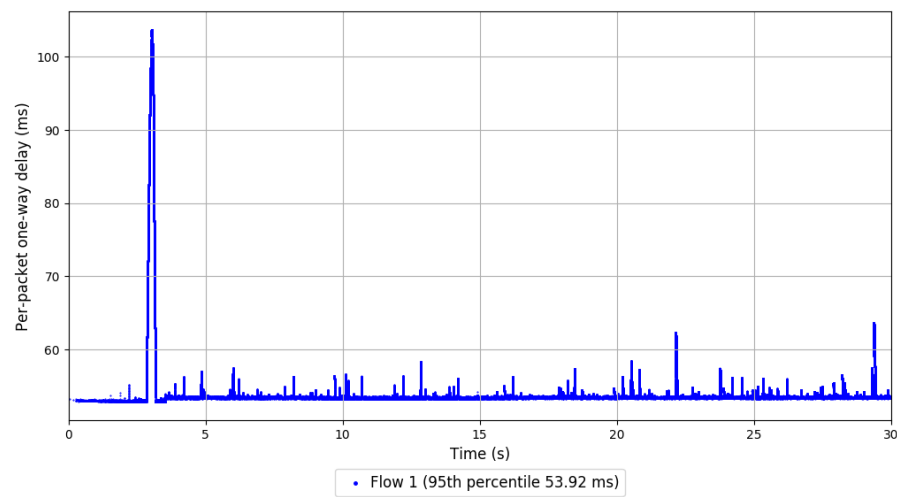
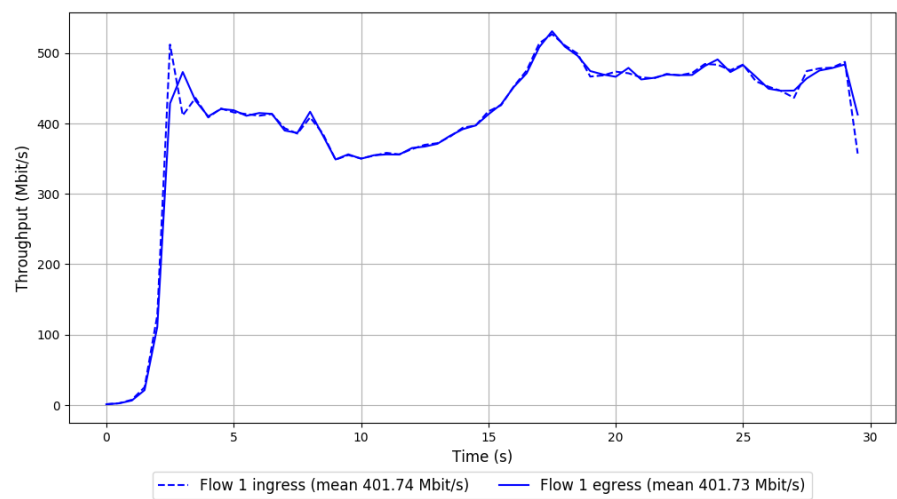
-- Flow 1:

Average throughput: 401.73 Mbit/s

95th percentile per-packet one-way delay: 53.923 ms

Loss rate: 0.00%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-13 07:12:09

End at: 2018-02-13 07:12:39

Below is generated by plot.py at 2018-02-13 10:37:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 369.38 Mbit/s

95th percentile per-packet one-way delay: 68.200 ms

Loss rate: 0.00%

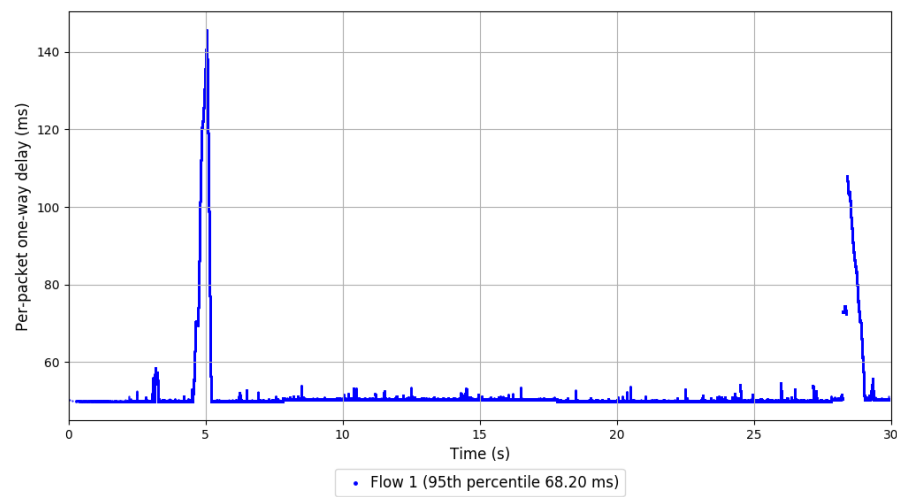
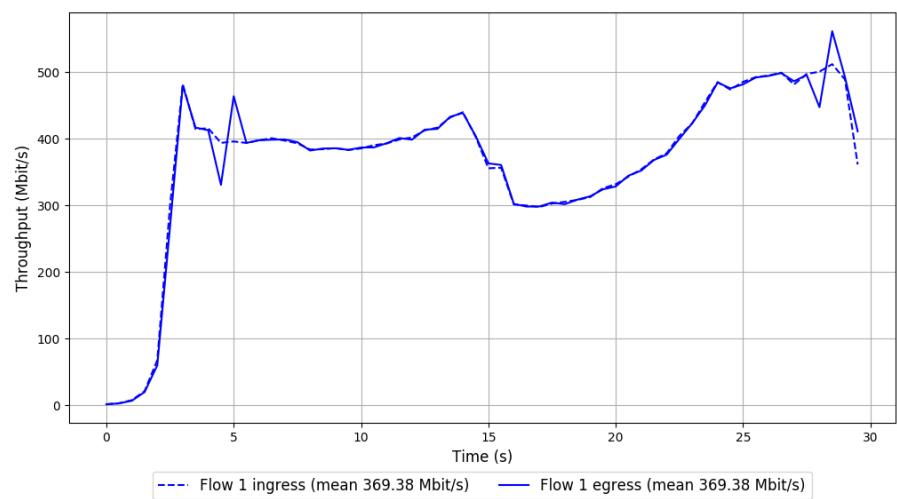
-- Flow 1:

Average throughput: 369.38 Mbit/s

95th percentile per-packet one-way delay: 68.200 ms

Loss rate: 0.00%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-13 07:26:29

End at: 2018-02-13 07:26:59

Below is generated by plot.py at 2018-02-13 10:37:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 421.57 Mbit/s

95th percentile per-packet one-way delay: 52.162 ms

Loss rate: 0.00%

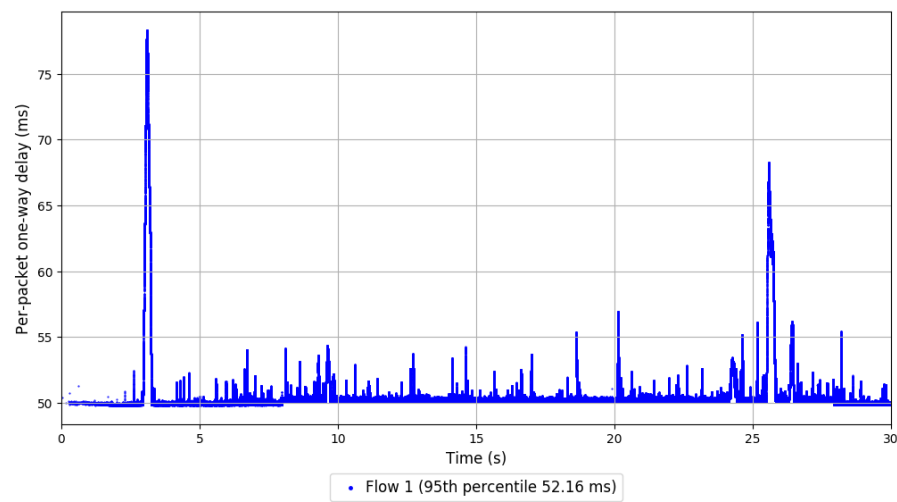
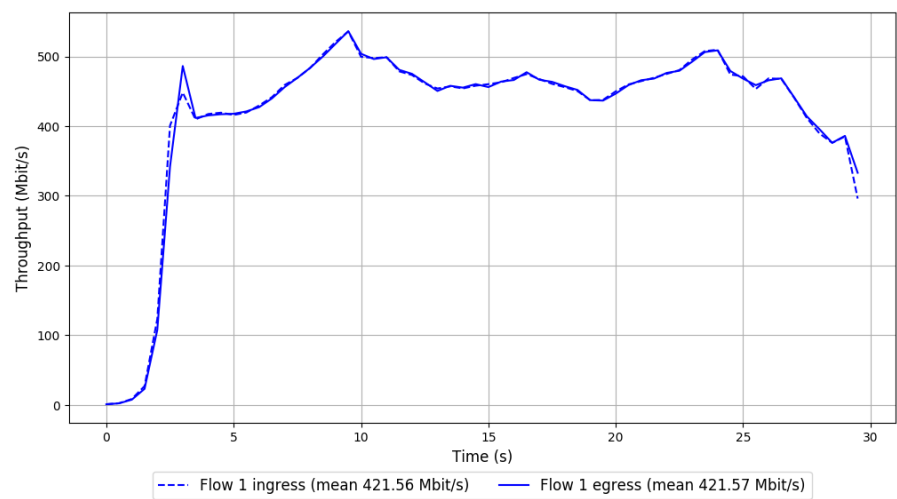
-- Flow 1:

Average throughput: 421.57 Mbit/s

95th percentile per-packet one-way delay: 52.162 ms

Loss rate: 0.00%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-13 07:41:08

End at: 2018-02-13 07:41:38

Below is generated by plot.py at 2018-02-13 10:37:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 348.62 Mbit/s

95th percentile per-packet one-way delay: 103.502 ms

Loss rate: 0.00%

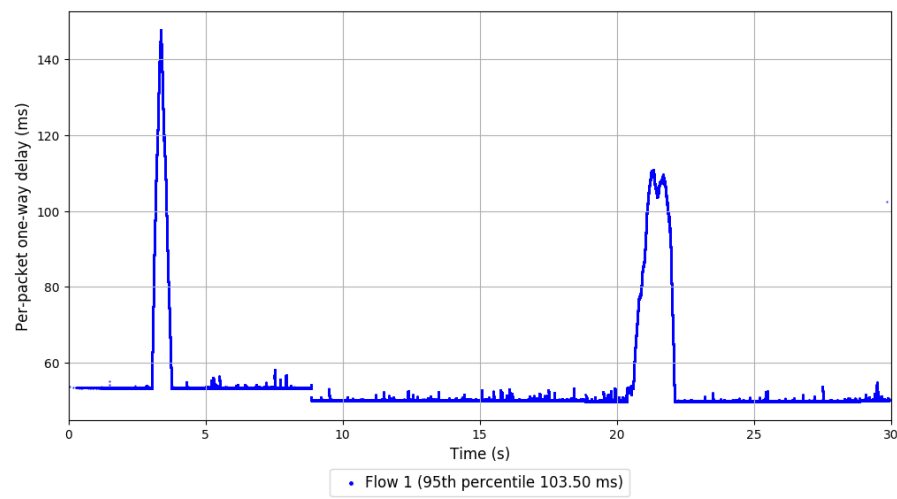
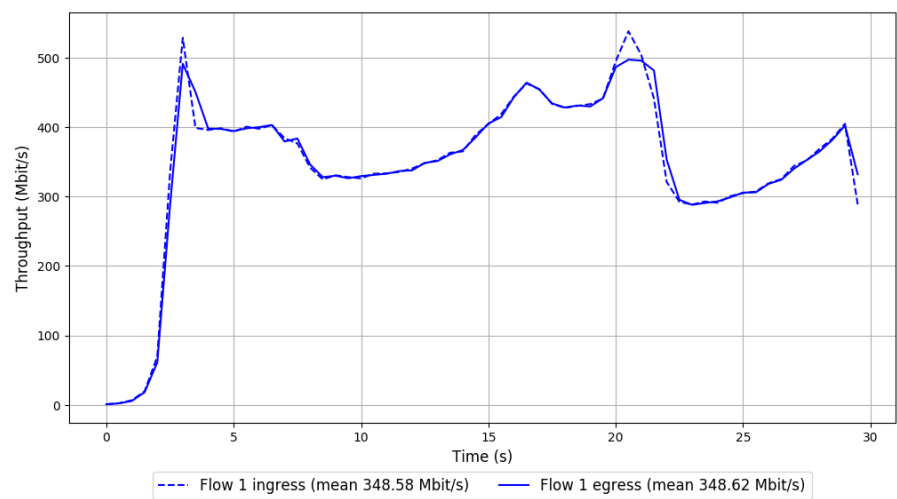
-- Flow 1:

Average throughput: 348.62 Mbit/s

95th percentile per-packet one-way delay: 103.502 ms

Loss rate: 0.00%

Run 10: Report of Vivace-latency — Data Link

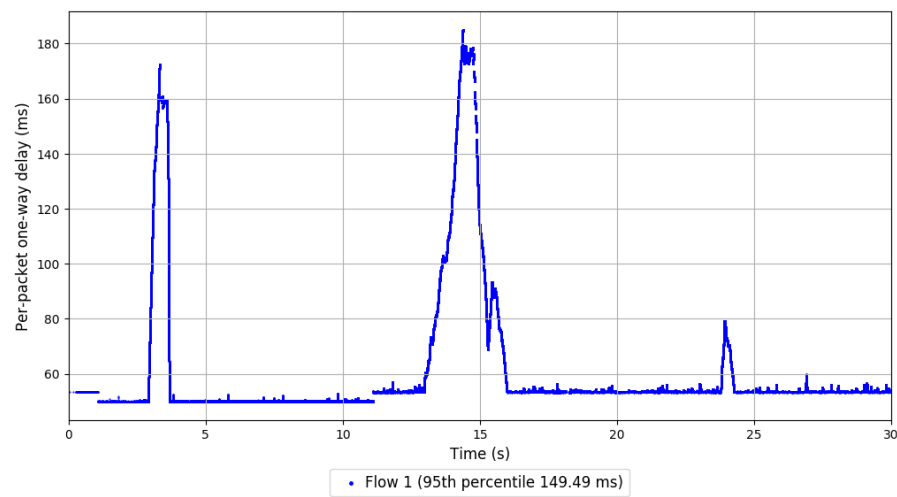
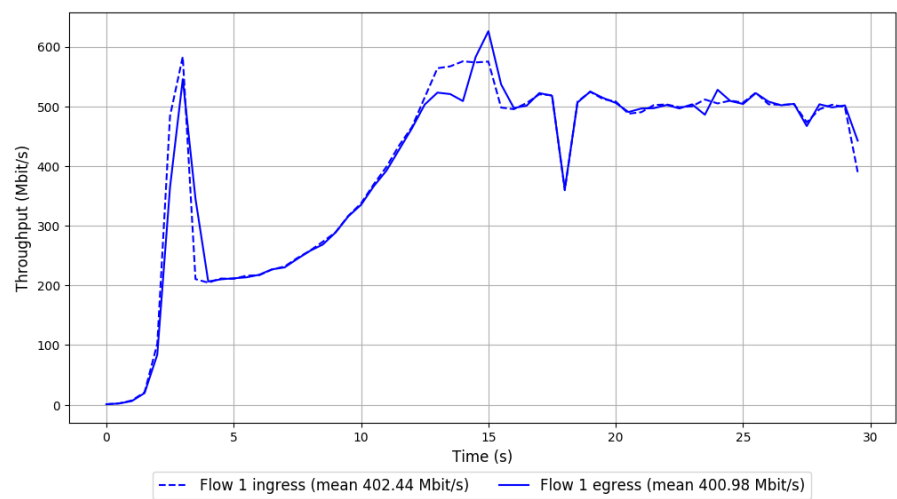


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-13 05:38:06
End at: 2018-02-13 05:38:36

# Below is generated by plot.py at 2018-02-13 10:38:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 400.98 Mbit/s
95th percentile per-packet one-way delay: 149.488 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 400.98 Mbit/s
95th percentile per-packet one-way delay: 149.488 ms
Loss rate: 0.36%
```

Run 1: Report of Vivace-loss — Data Link

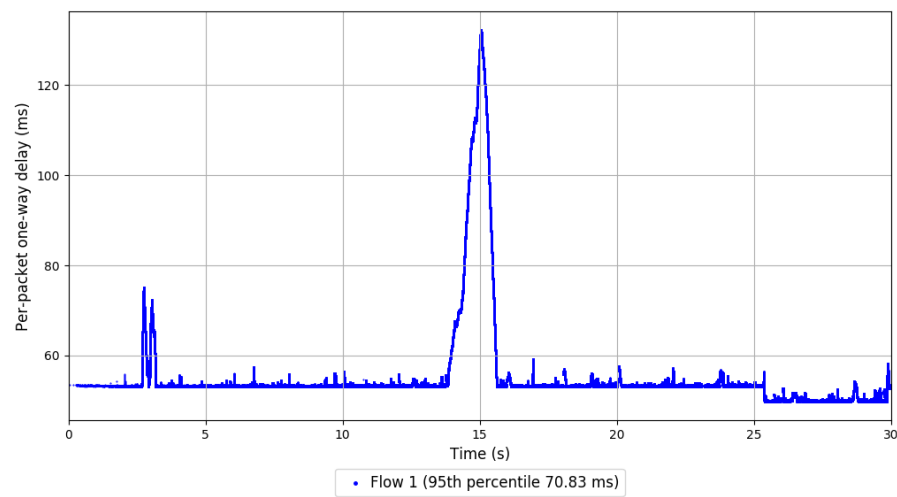
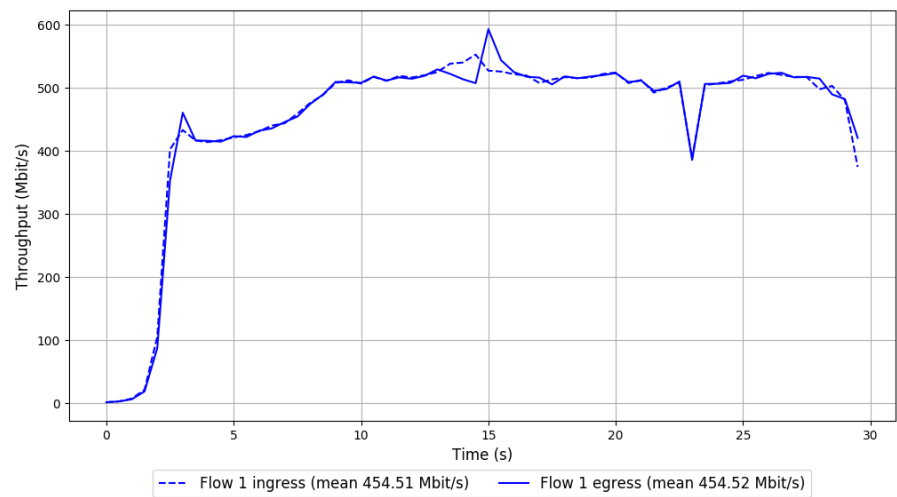


```
Run 2: Statistics of Vivace-loss

Start at: 2018-02-13 05:52:31
End at: 2018-02-13 05:53:02

# Below is generated by plot.py at 2018-02-13 10:40:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 454.52 Mbit/s
95th percentile per-packet one-way delay: 70.833 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 454.52 Mbit/s
95th percentile per-packet one-way delay: 70.833 ms
Loss rate: 0.00%
```

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-13 06:06:59

End at: 2018-02-13 06:07:29

Below is generated by plot.py at 2018-02-13 10:40:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 349.76 Mbit/s

95th percentile per-packet one-way delay: 208.982 ms

Loss rate: 4.11%

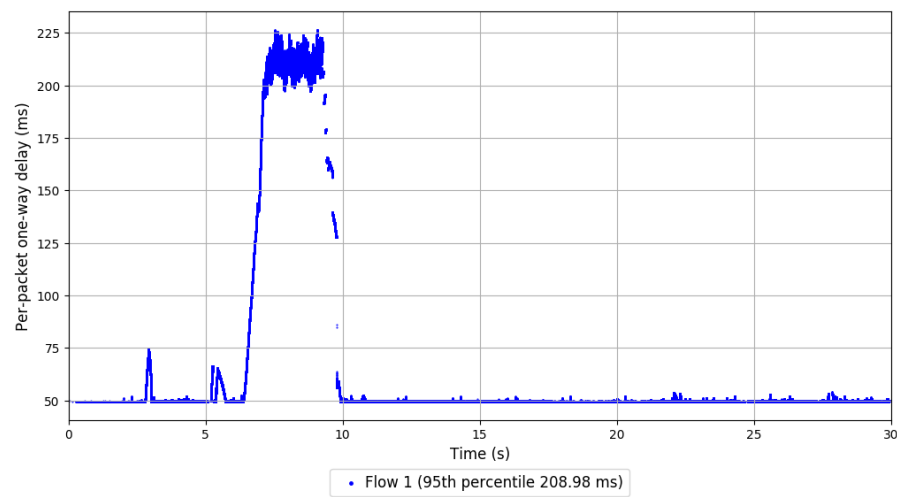
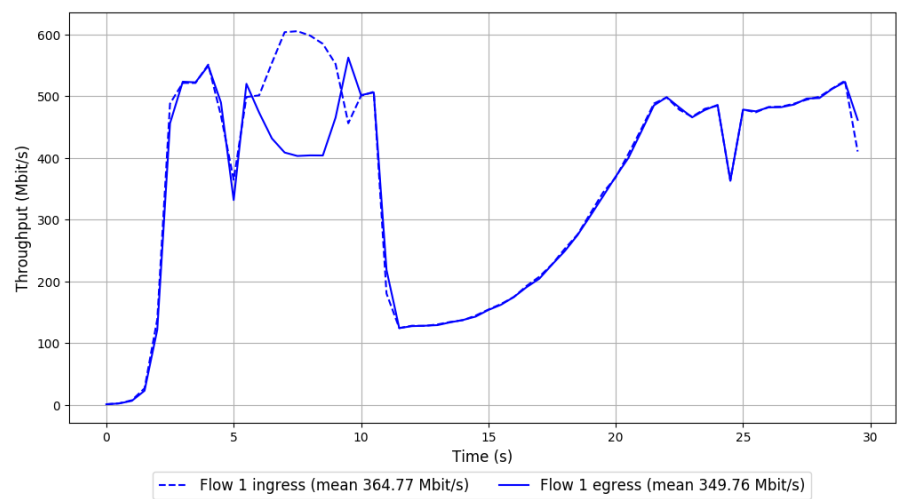
-- Flow 1:

Average throughput: 349.76 Mbit/s

95th percentile per-packet one-way delay: 208.982 ms

Loss rate: 4.11%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-13 06:21:19

End at: 2018-02-13 06:21:49

Below is generated by plot.py at 2018-02-13 10:40:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 380.50 Mbit/s

95th percentile per-packet one-way delay: 82.687 ms

Loss rate: 0.00%

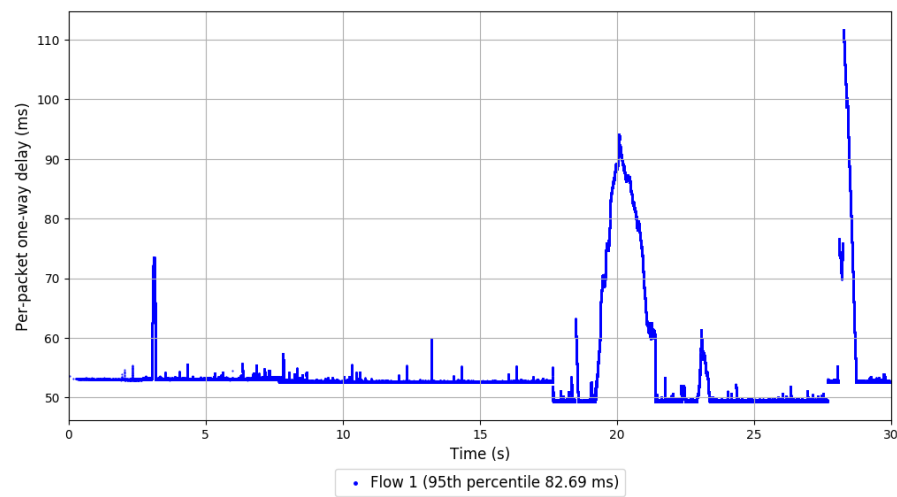
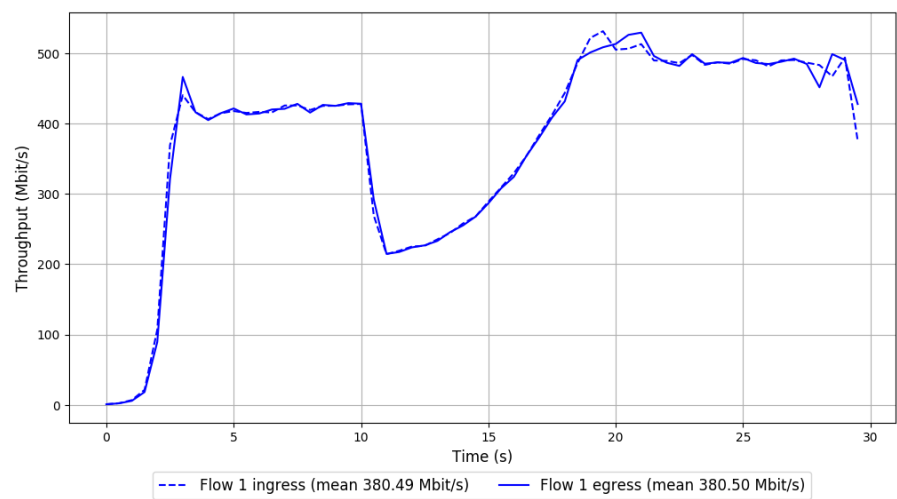
-- Flow 1:

Average throughput: 380.50 Mbit/s

95th percentile per-packet one-way delay: 82.687 ms

Loss rate: 0.00%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-13 06:35:39

End at: 2018-02-13 06:36:09

Below is generated by plot.py at 2018-02-13 10:42:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 344.67 Mbit/s

95th percentile per-packet one-way delay: 60.012 ms

Loss rate: 0.00%

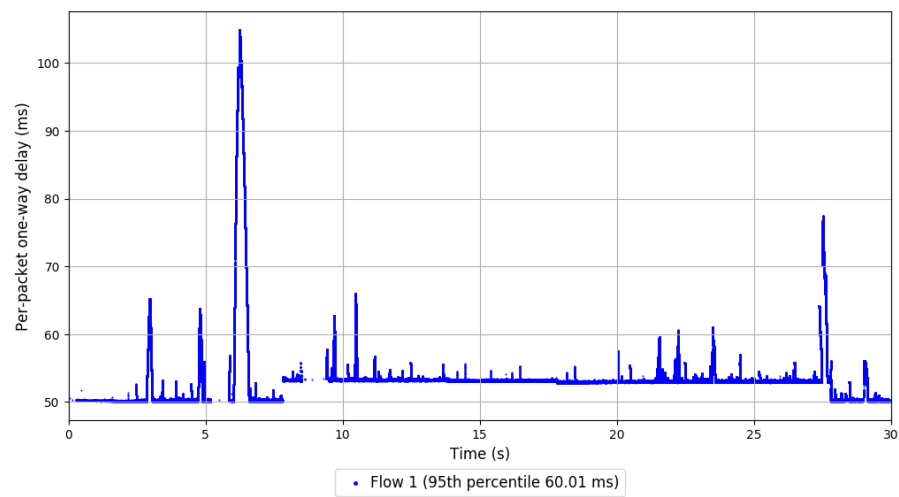
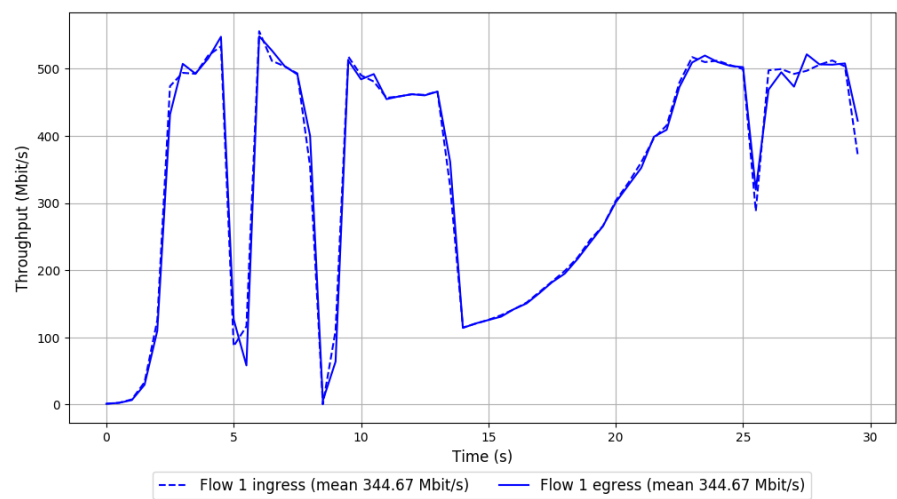
-- Flow 1:

Average throughput: 344.67 Mbit/s

95th percentile per-packet one-way delay: 60.012 ms

Loss rate: 0.00%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-13 06:49:49

End at: 2018-02-13 06:50:19

Below is generated by plot.py at 2018-02-13 10:45:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 462.10 Mbit/s

95th percentile per-packet one-way delay: 170.948 ms

Loss rate: 0.57%

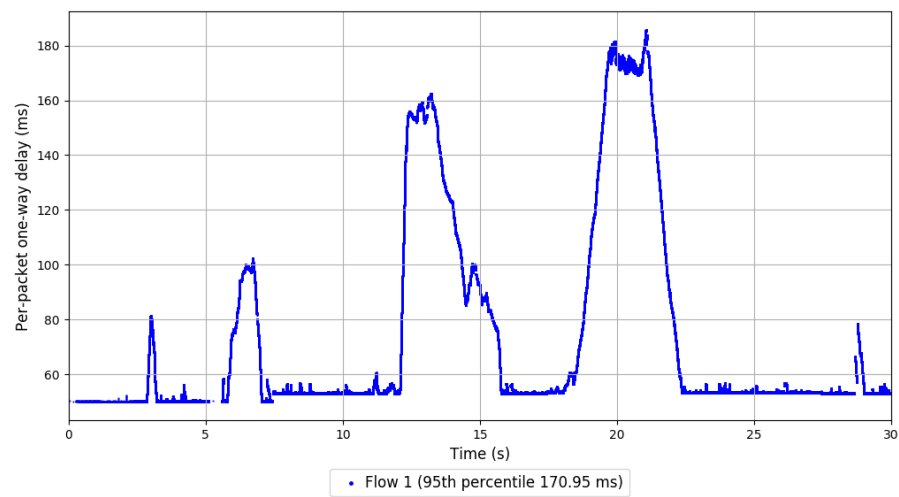
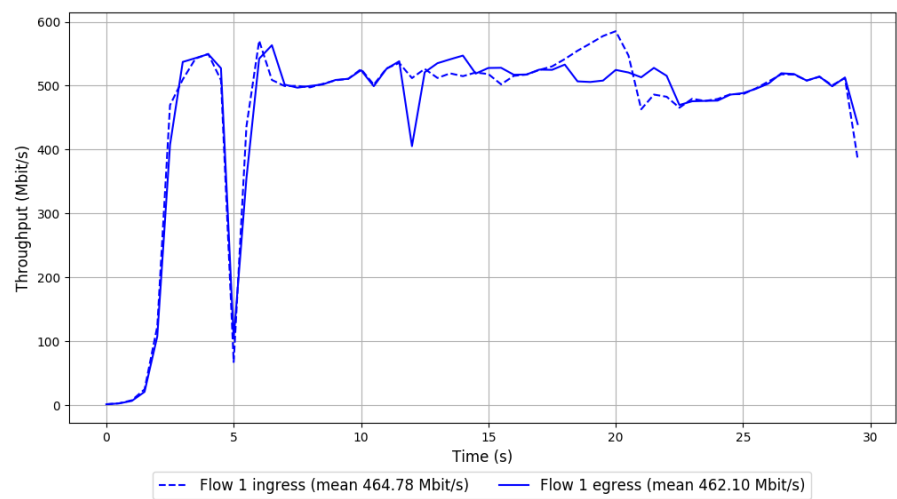
-- Flow 1:

Average throughput: 462.10 Mbit/s

95th percentile per-packet one-way delay: 170.948 ms

Loss rate: 0.57%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-13 07:04:13

End at: 2018-02-13 07:04:43

Below is generated by plot.py at 2018-02-13 10:45:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 438.73 Mbit/s

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

Loss rate: 0.00%

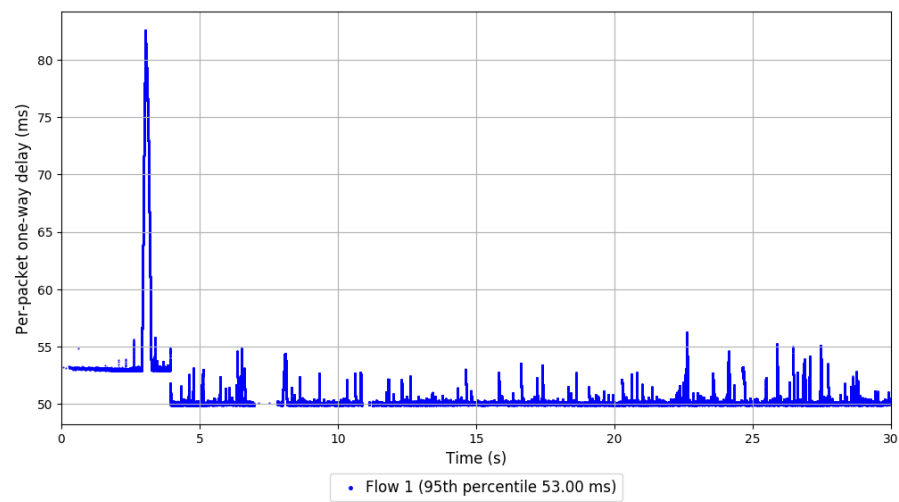
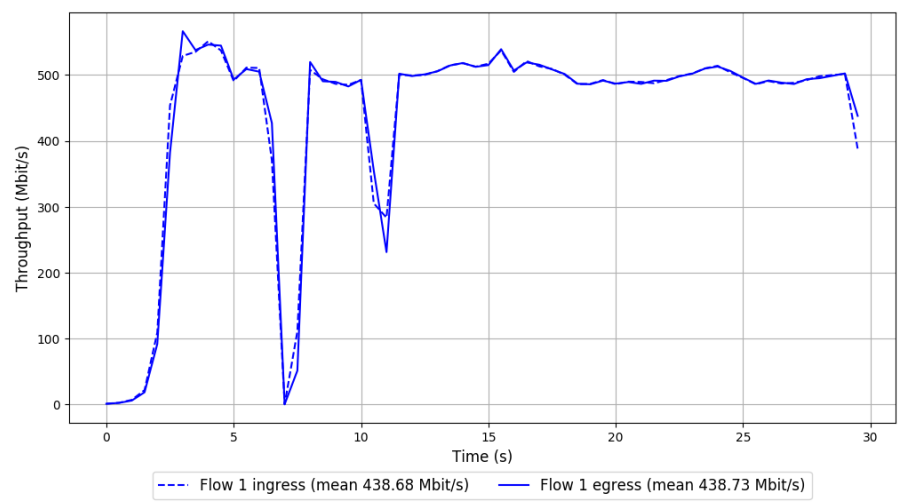
-- Flow 1:

Average throughput: 438.73 Mbit/s

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

Loss rate: 0.00%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-13 07:18:45

End at: 2018-02-13 07:19:15

Below is generated by plot.py at 2018-02-13 10:45:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 433.06 Mbit/s

95th percentile per-packet one-way delay: 60.626 ms

Loss rate: 0.00%

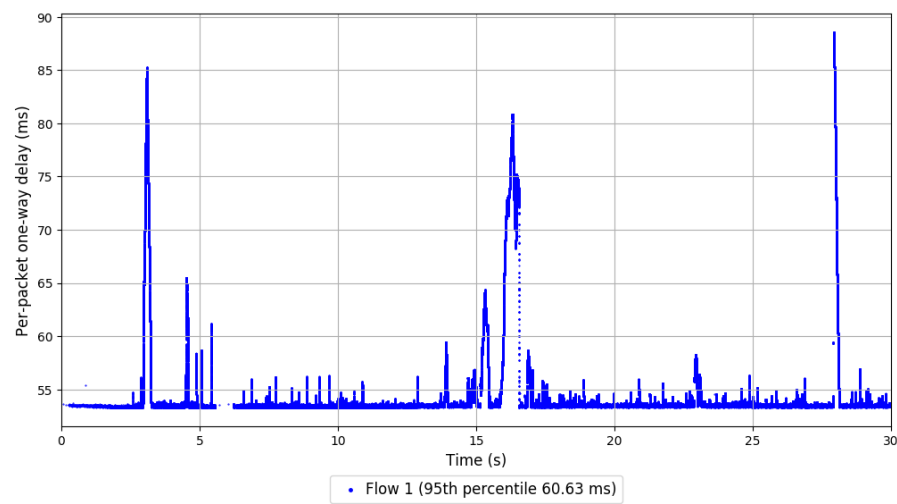
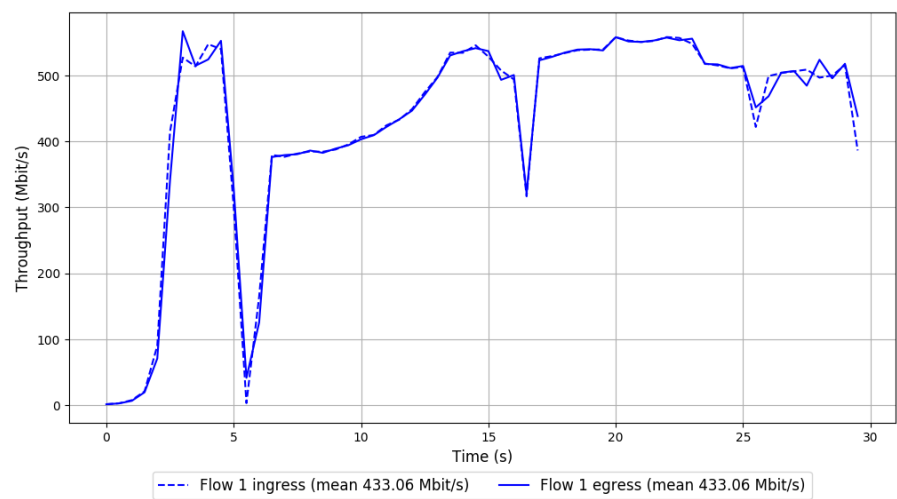
-- Flow 1:

Average throughput: 433.06 Mbit/s

95th percentile per-packet one-way delay: 60.626 ms

Loss rate: 0.00%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-13 07:33:07

End at: 2018-02-13 07:33:37

Below is generated by plot.py at 2018-02-13 10:45:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 403.52 Mbit/s

95th percentile per-packet one-way delay: 162.711 ms

Loss rate: 0.21%

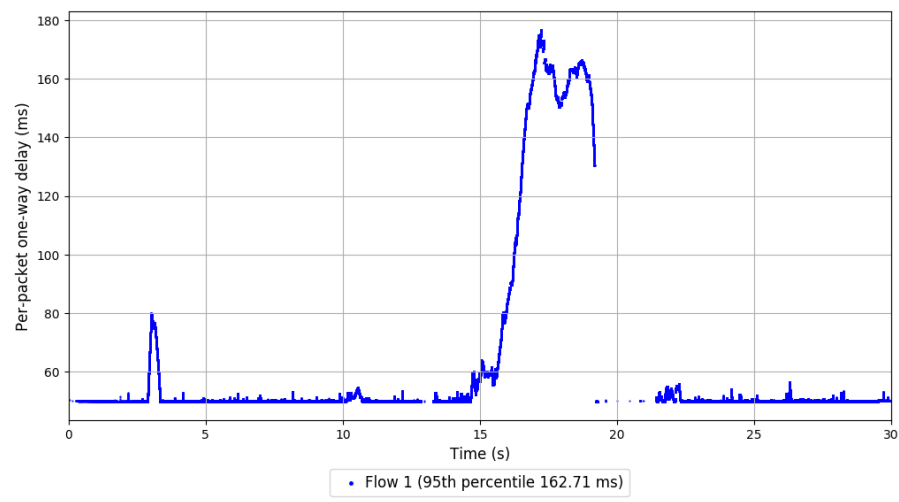
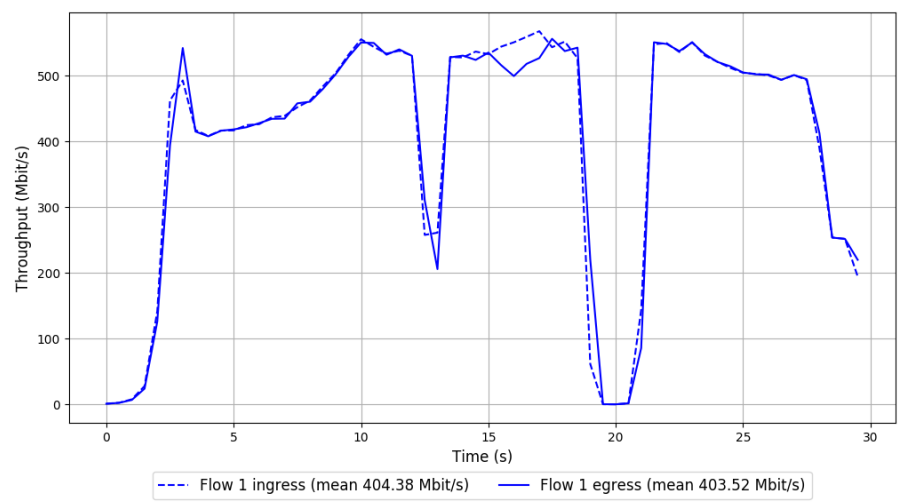
-- Flow 1:

Average throughput: 403.52 Mbit/s

95th percentile per-packet one-way delay: 162.711 ms

Loss rate: 0.21%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-13 07:47:44

End at: 2018-02-13 07:48:14

Below is generated by plot.py at 2018-02-13 10:47:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 397.39 Mbit/s

95th percentile per-packet one-way delay: 129.408 ms

Loss rate: 0.00%

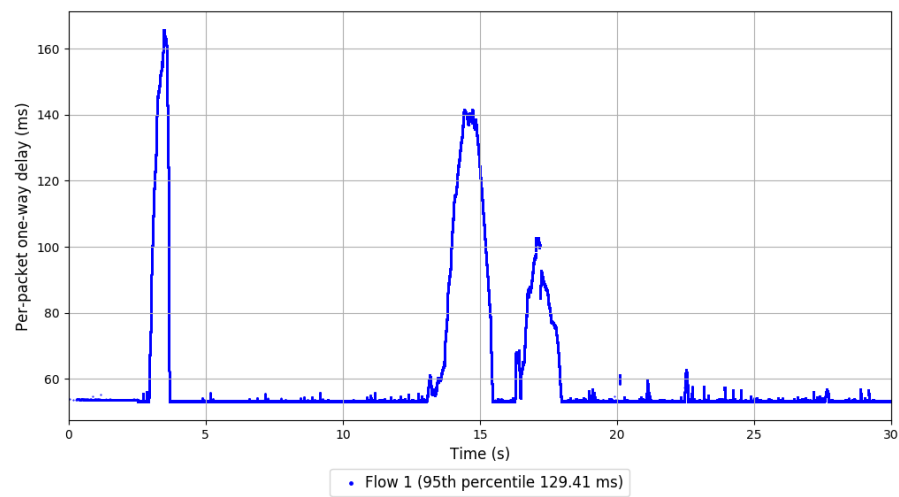
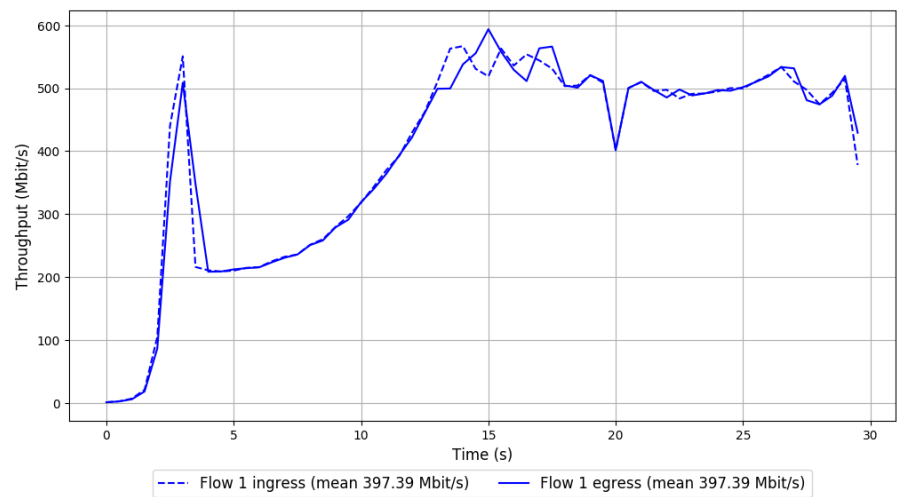
-- Flow 1:

Average throughput: 397.39 Mbit/s

95th percentile per-packet one-way delay: 129.408 ms

Loss rate: 0.00%

Run 10: Report of Vivace-loss — Data Link

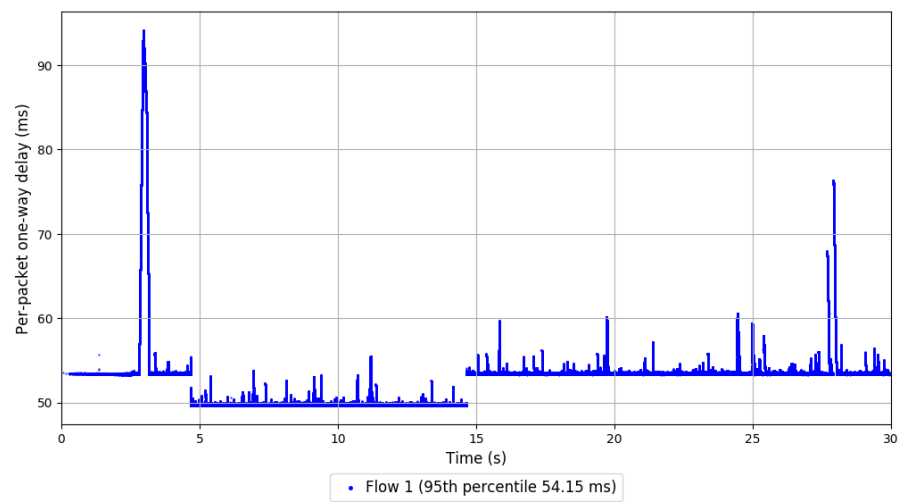
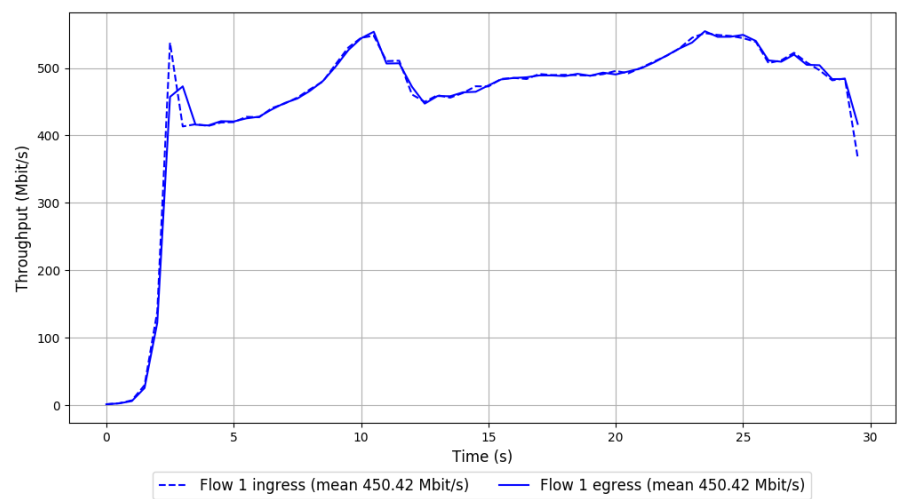


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-13 05:36:22
End at: 2018-02-13 05:36:52

# Below is generated by plot.py at 2018-02-13 10:48:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 450.42 Mbit/s
95th percentile per-packet one-way delay: 54.148 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 450.42 Mbit/s
95th percentile per-packet one-way delay: 54.148 ms
Loss rate: 0.01%
```


Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-13 05:50:47

End at: 2018-02-13 05:51:17

Below is generated by plot.py at 2018-02-13 10:49:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 452.97 Mbit/s

95th percentile per-packet one-way delay: 62.619 ms

Loss rate: 0.00%

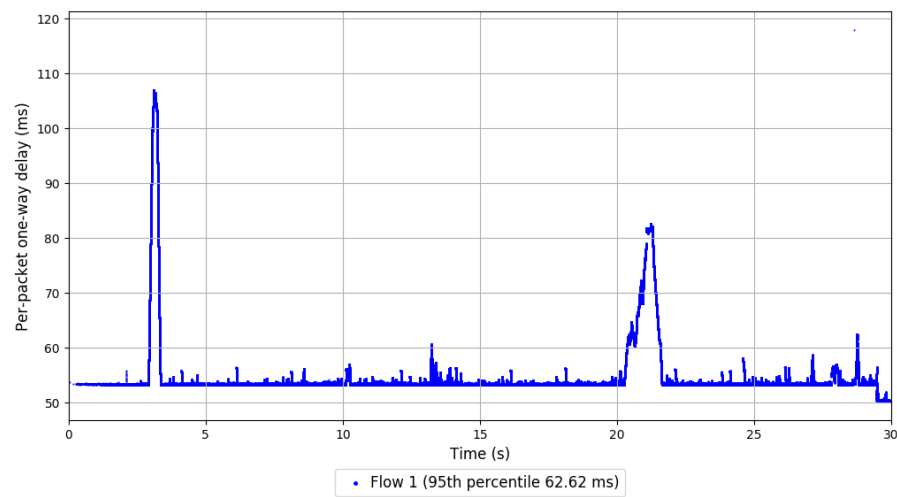
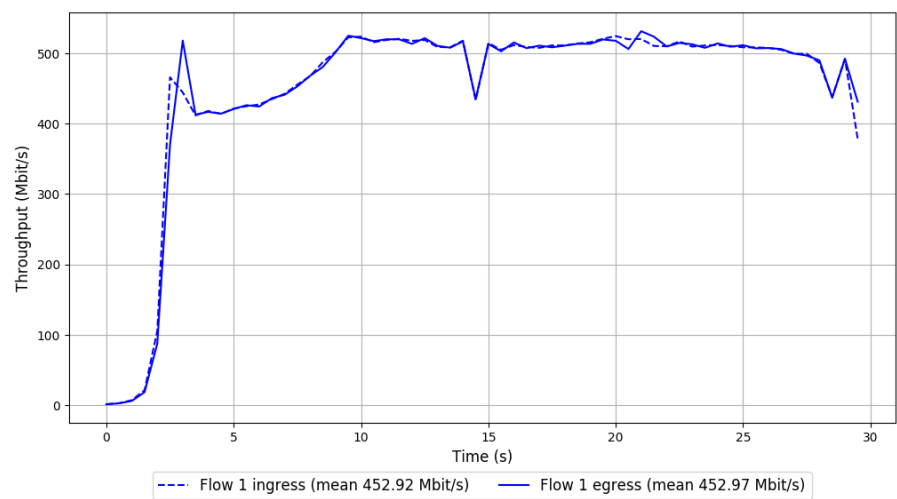
-- Flow 1:

Average throughput: 452.97 Mbit/s

95th percentile per-packet one-way delay: 62.619 ms

Loss rate: 0.00%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-13 06:05:14

End at: 2018-02-13 06:05:44

Below is generated by plot.py at 2018-02-13 10:50:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 426.19 Mbit/s

95th percentile per-packet one-way delay: 52.615 ms

Loss rate: 0.01%

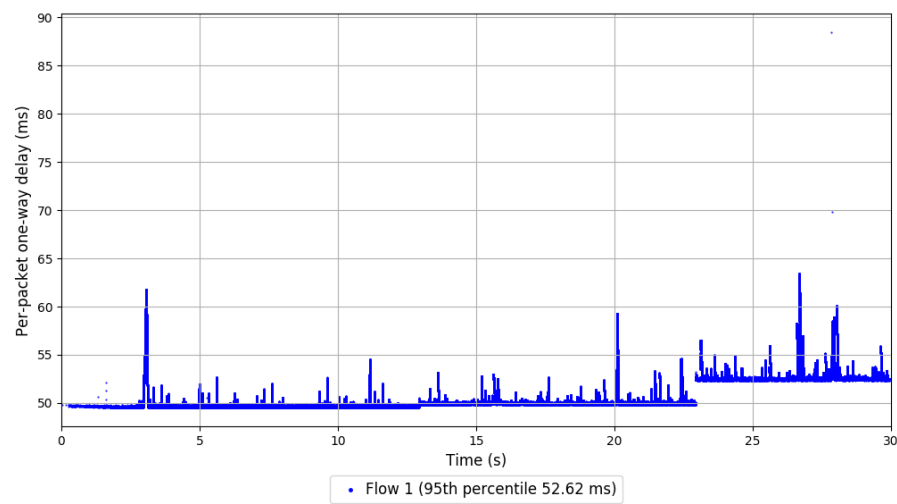
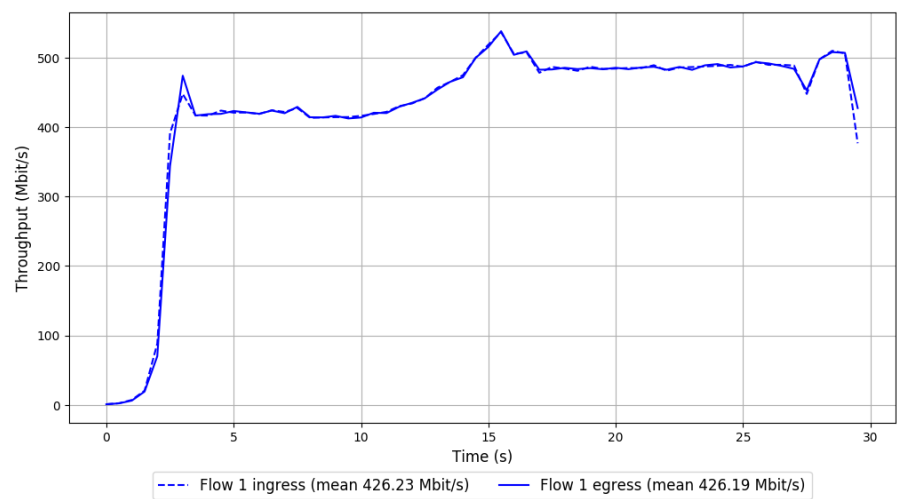
-- Flow 1:

Average throughput: 426.19 Mbit/s

95th percentile per-packet one-way delay: 52.615 ms

Loss rate: 0.01%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-13 06:19:35

End at: 2018-02-13 06:20:05

Below is generated by plot.py at 2018-02-13 10:52:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 425.52 Mbit/s

95th percentile per-packet one-way delay: 50.864 ms

Loss rate: 0.00%

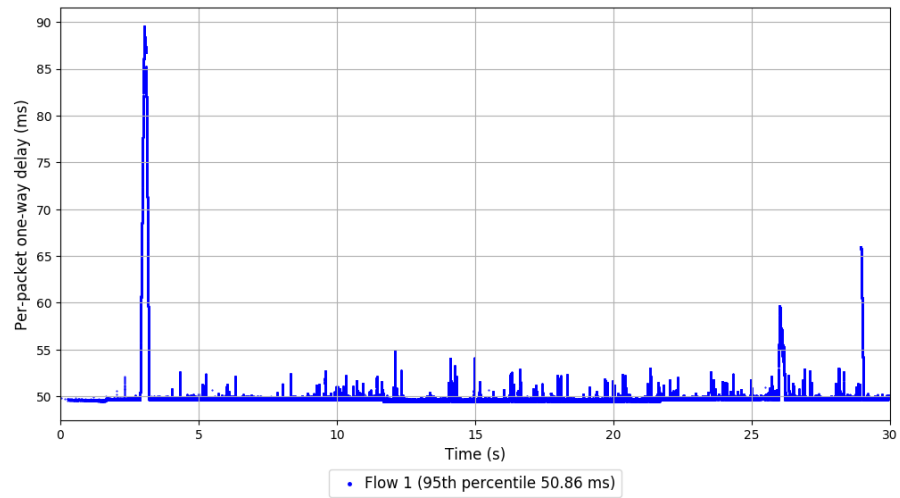
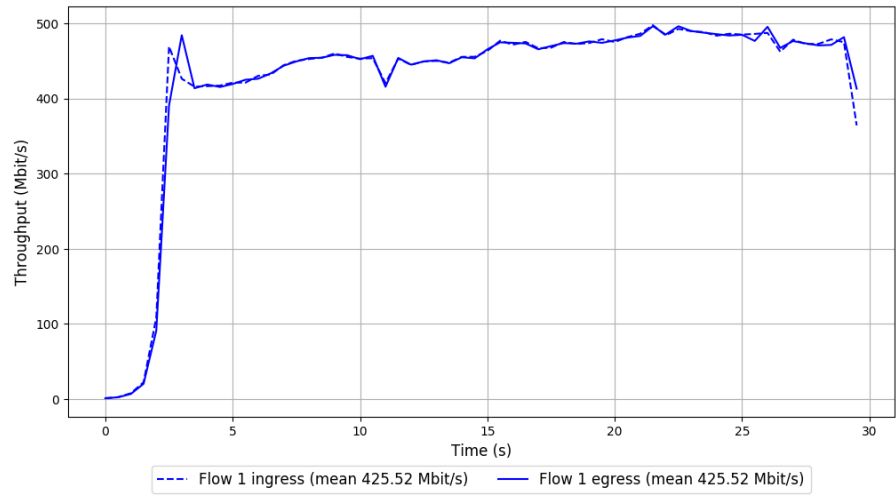
-- Flow 1:

Average throughput: 425.52 Mbit/s

95th percentile per-packet one-way delay: 50.864 ms

Loss rate: 0.00%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-13 06:33:53

End at: 2018-02-13 06:34:23

Below is generated by plot.py at 2018-02-13 10:52:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 448.32 Mbit/s

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

Loss rate: 0.00%

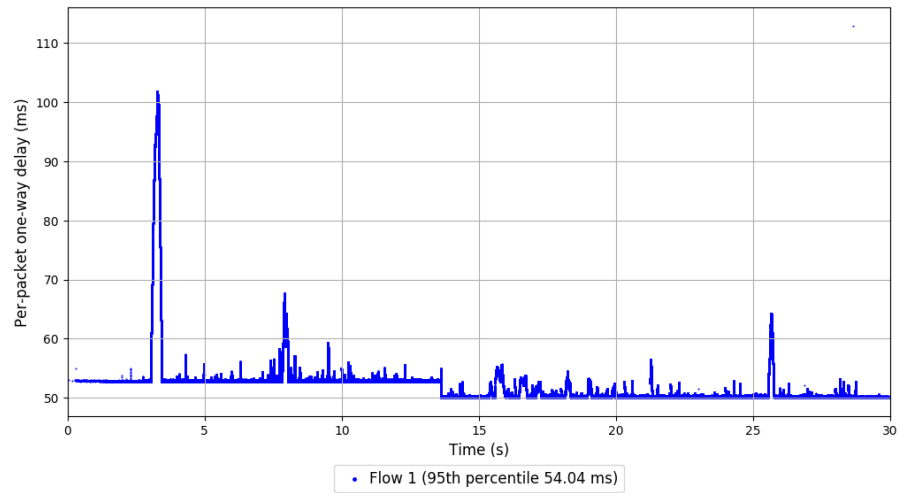
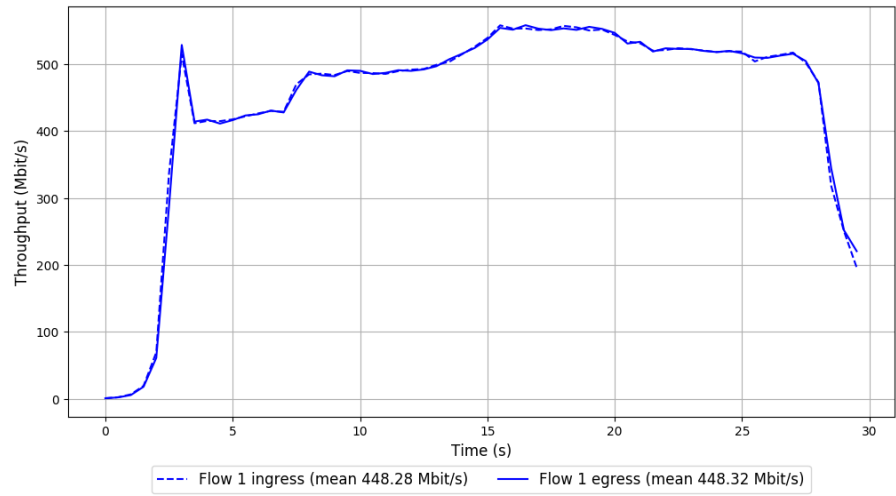
-- Flow 1:

Average throughput: 448.32 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-13 06:48:06

End at: 2018-02-13 06:48:36

Below is generated by plot.py at 2018-02-13 10:52:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 445.75 Mbit/s

95th percentile per-packet one-way delay: 54.965 ms

Loss rate: 0.00%

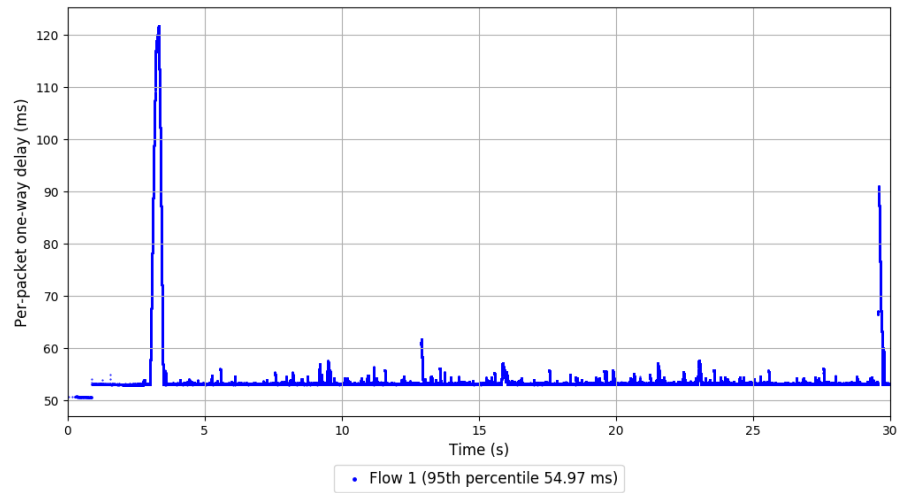
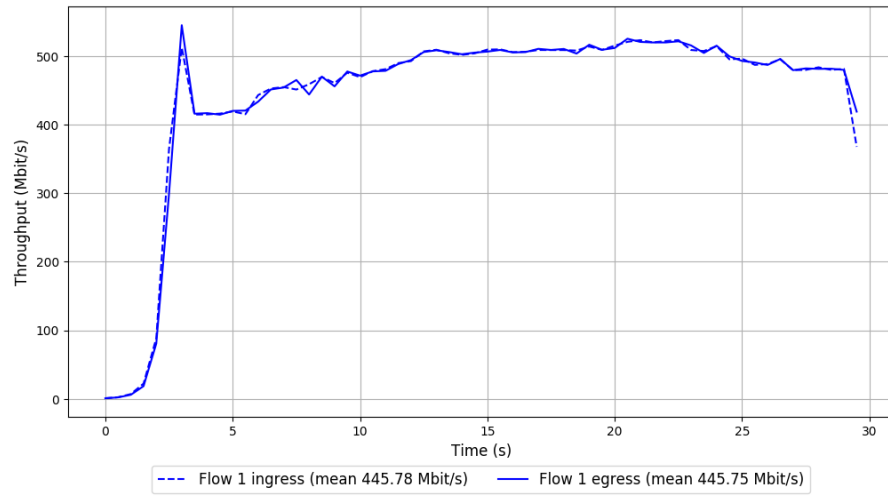
-- Flow 1:

Average throughput: 445.75 Mbit/s

95th percentile per-packet one-way delay: 54.965 ms

Loss rate: 0.00%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-13 07:02:27

End at: 2018-02-13 07:02:57

Below is generated by plot.py at 2018-02-13 10:52:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 454.87 Mbit/s

95th percentile per-packet one-way delay: 54.448 ms

Loss rate: 0.00%

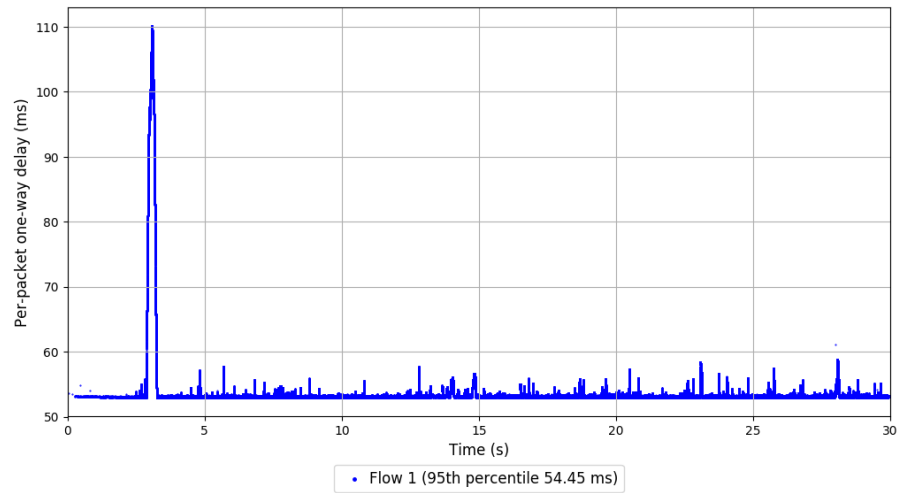
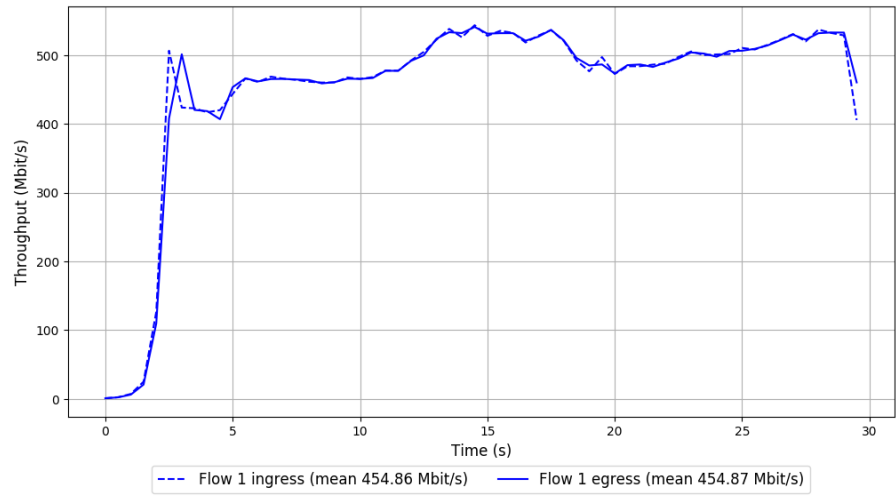
-- Flow 1:

Average throughput: 454.87 Mbit/s

95th percentile per-packet one-way delay: 54.448 ms

Loss rate: 0.00%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-13 07:17:03

End at: 2018-02-13 07:17:33

Below is generated by plot.py at 2018-02-13 10:53:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 406.53 Mbit/s

95th percentile per-packet one-way delay: 53.669 ms

Loss rate: 0.00%

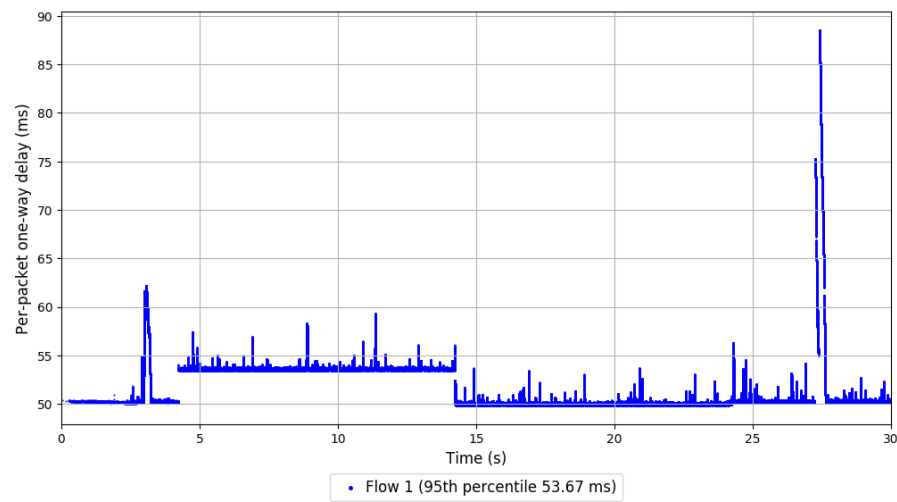
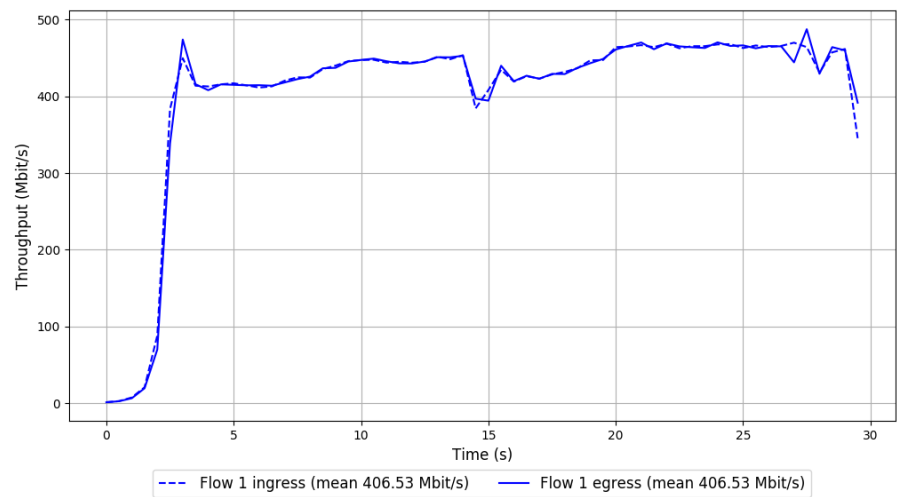
-- Flow 1:

Average throughput: 406.53 Mbit/s

95th percentile per-packet one-way delay: 53.669 ms

Loss rate: 0.00%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-13 07:31:22

End at: 2018-02-13 07:31:52

Below is generated by plot.py at 2018-02-13 10:53:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 431.32 Mbit/s

95th percentile per-packet one-way delay: 54.497 ms

Loss rate: 0.01%

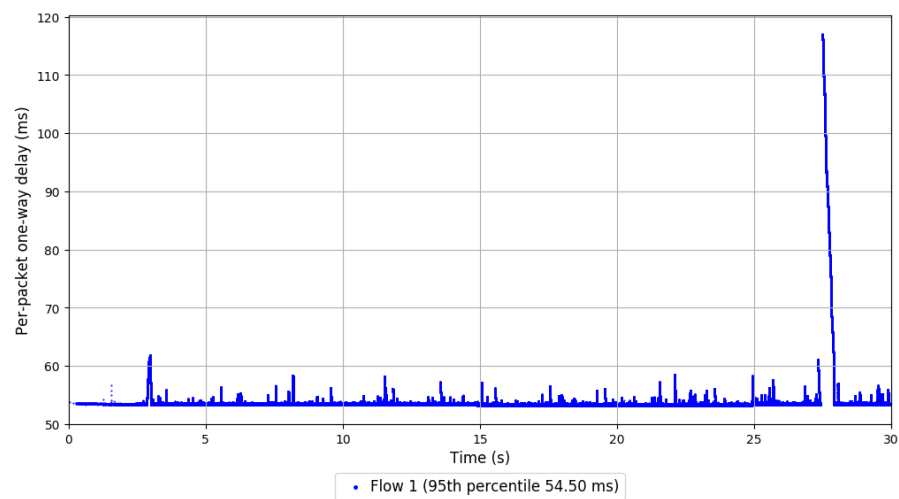
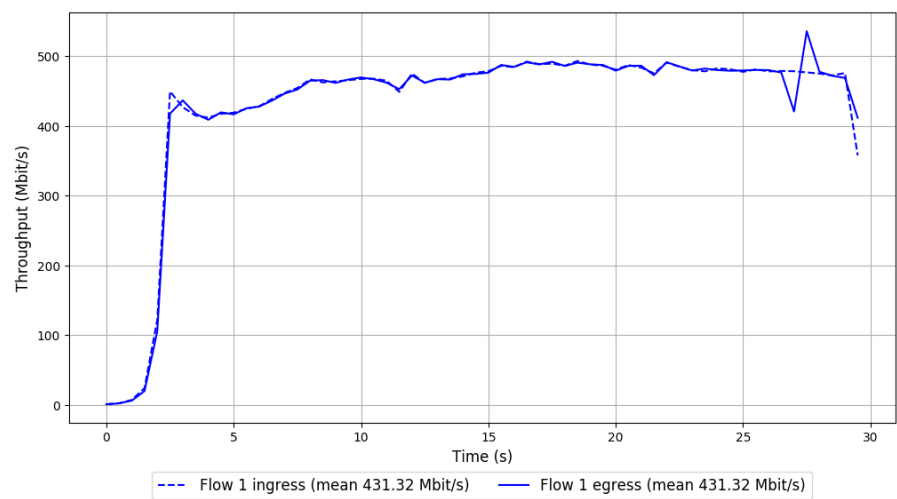
-- Flow 1:

Average throughput: 431.32 Mbit/s

95th percentile per-packet one-way delay: 54.497 ms

Loss rate: 0.01%

Run 9: Report of Vivace-LTE — Data Link



```
Run 10: Statistics of Vivace-LTE

Start at: 2018-02-13 07:46:00
End at: 2018-02-13 07:46:30

# Below is generated by plot.py at 2018-02-13 10:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 439.92 Mbit/s
95th percentile per-packet one-way delay: 83.962 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 439.92 Mbit/s
95th percentile per-packet one-way delay: 83.962 ms
Loss rate: 0.00%
```

Run 10: Report of Vivace-LTE — Data Link

