

Pantheon Report

Generated at 2018-02-13 01:50:12 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

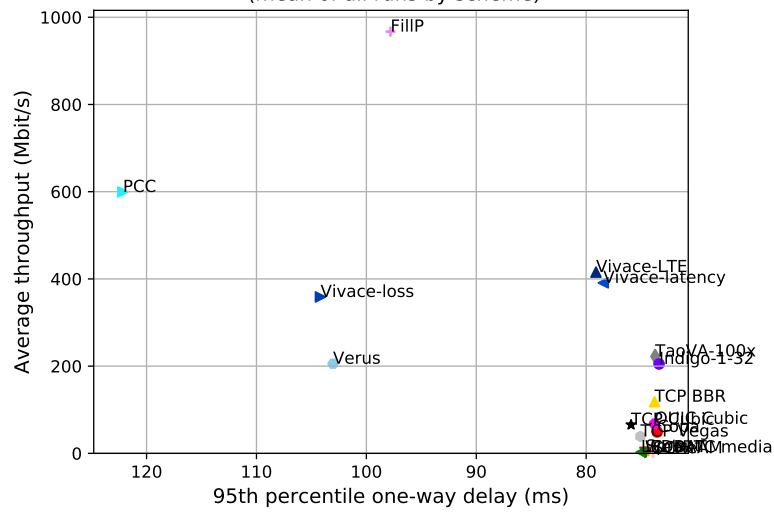
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

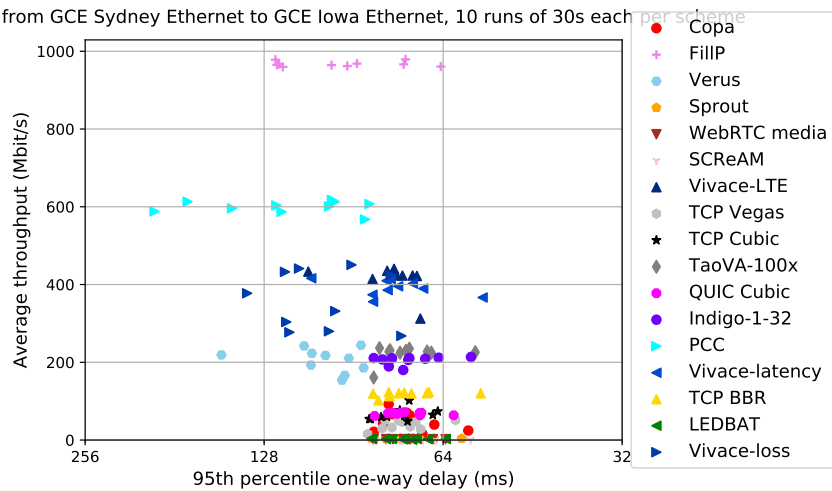
Git summary:

```
branch: master @ 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 Iowa Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	118.34	73.78	0.66
TCP Cubic	10	65.56	75.92	0.78
LEDBAT	10	2.62	75.01	1.12
PCC	10	599.38	122.15	1.28
QUIC Cubic	10	67.76	73.78	0.79
SCReAM	10	0.22	73.92	0.52
WebRTC media	10	2.20	74.66	0.71
Sprout	10	4.05	74.59	0.96
TaoVA-100x	10	222.25	73.73	0.63
TCP Vegas	10	38.73	75.07	0.42
Verus	10	205.46	103.04	0.88
Copa	10	49.09	73.54	0.55
FillP	10	967.07	97.81	0.79
Indigo-1-32	10	204.94	73.37	0.67
Vivace-latency	10	390.92	78.45	0.66
Vivace-loss	10	358.60	104.17	0.91
Vivace-LTE	10	415.72	79.11	0.85

Run 1: Statistics of TCP BBR

Start at: 2018-02-12 19:26:05

End at: 2018-02-12 19:26:35

Below is generated by plot.py at 2018-02-13 00:34:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 120.33 Mbit/s

95th percentile per-packet one-way delay: 75.950 ms

Loss rate: 0.61%

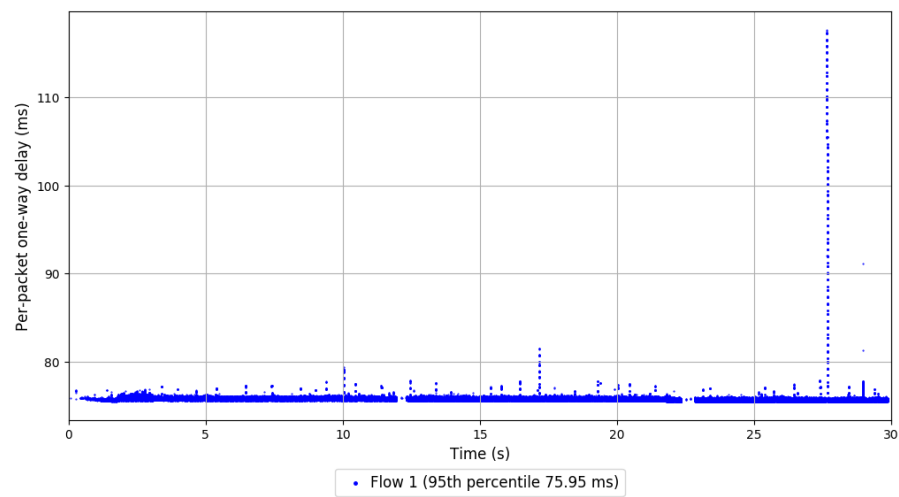
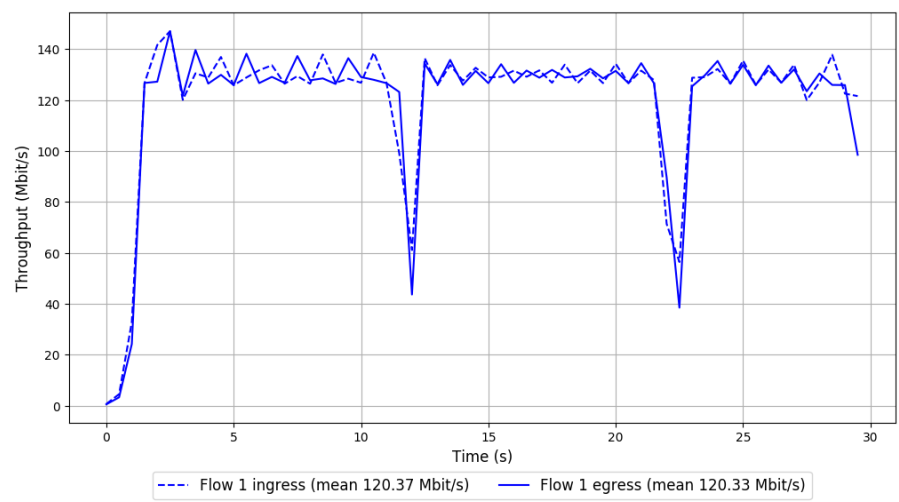
-- Flow 1:

Average throughput: 120.33 Mbit/s

95th percentile per-packet one-way delay: 75.950 ms

Loss rate: 0.61%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-12 19:41:24

End at: 2018-02-12 19:41:54

Below is generated by plot.py at 2018-02-13 00:34:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 120.48 Mbit/s

95th percentile per-packet one-way delay: 68.150 ms

Loss rate: 0.62%

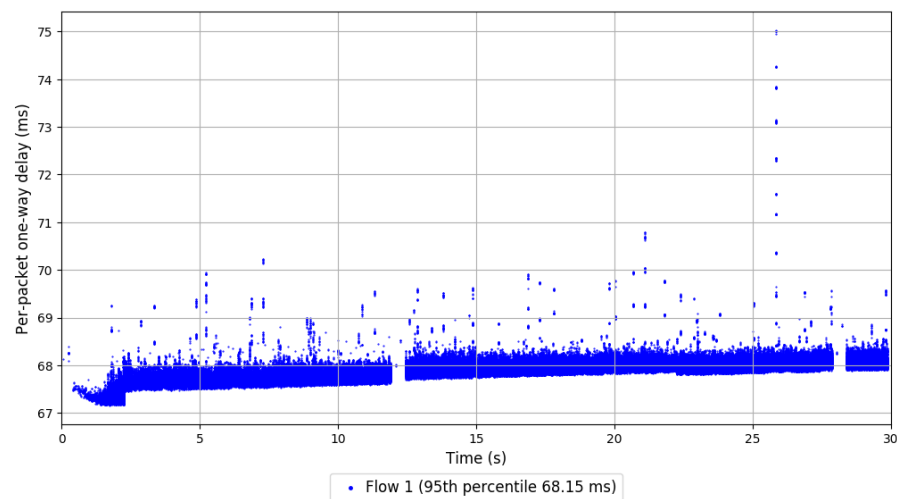
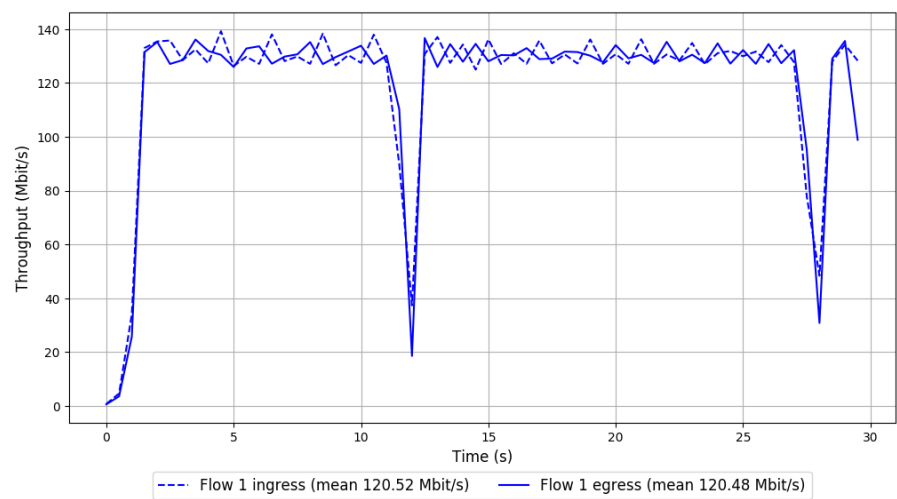
-- Flow 1:

Average throughput: 120.48 Mbit/s

95th percentile per-packet one-way delay: 68.150 ms

Loss rate: 0.62%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-12 19:56:40

End at: 2018-02-12 19:57:10

Below is generated by plot.py at 2018-02-13 00:34:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 123.37 Mbit/s

95th percentile per-packet one-way delay: 67.663 ms

Loss rate: 0.61%

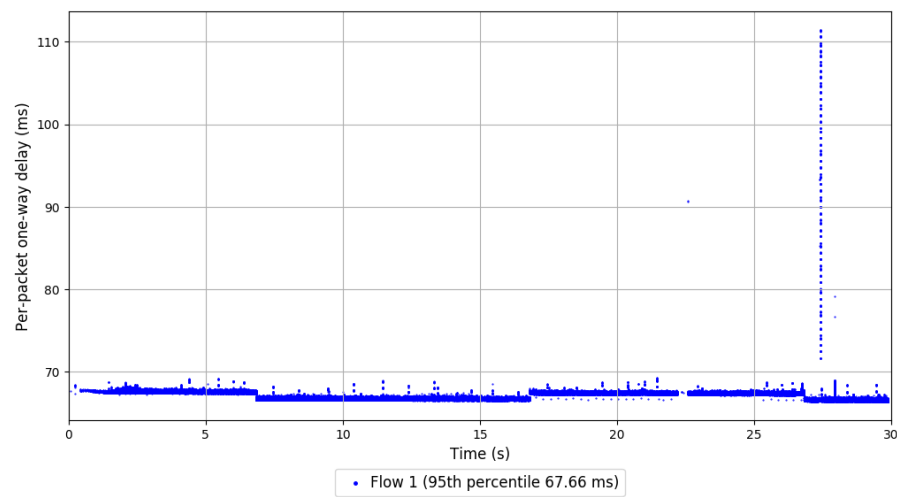
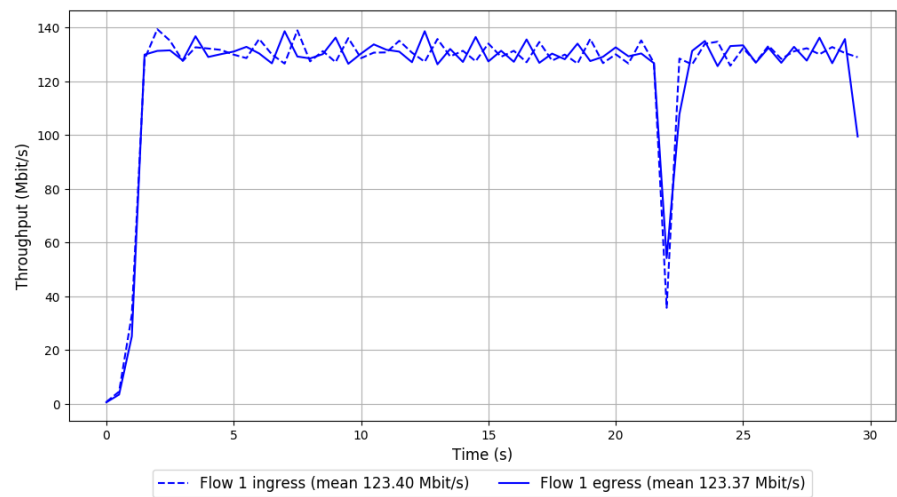
-- Flow 1:

Average throughput: 123.37 Mbit/s

95th percentile per-packet one-way delay: 67.663 ms

Loss rate: 0.61%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-12 20:12:00

End at: 2018-02-12 20:12:31

Below is generated by plot.py at 2018-02-13 00:34:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 120.22 Mbit/s

95th percentile per-packet one-way delay: 55.329 ms

Loss rate: 0.62%

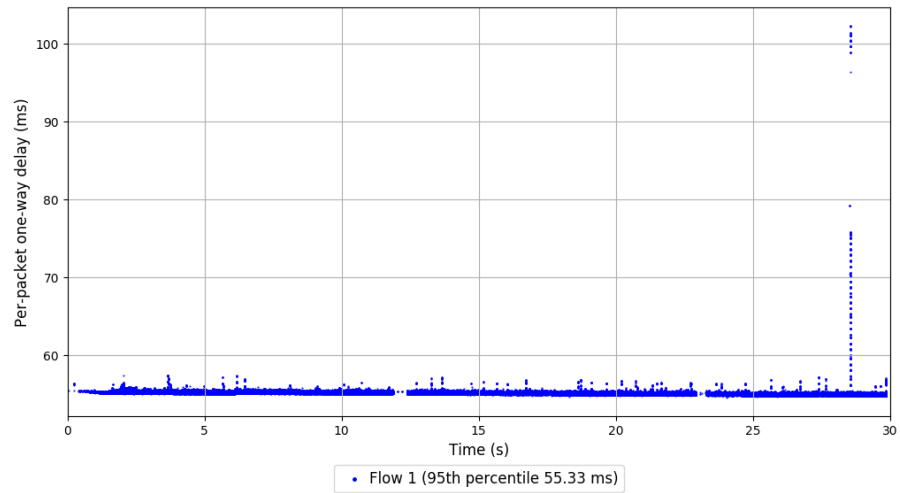
-- Flow 1:

Average throughput: 120.22 Mbit/s

95th percentile per-packet one-way delay: 55.329 ms

Loss rate: 0.62%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-12 20:27:30

End at: 2018-02-12 20:28:00

Below is generated by plot.py at 2018-02-13 00:34:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 121.70 Mbit/s

95th percentile per-packet one-way delay: 74.402 ms

Loss rate: 0.66%

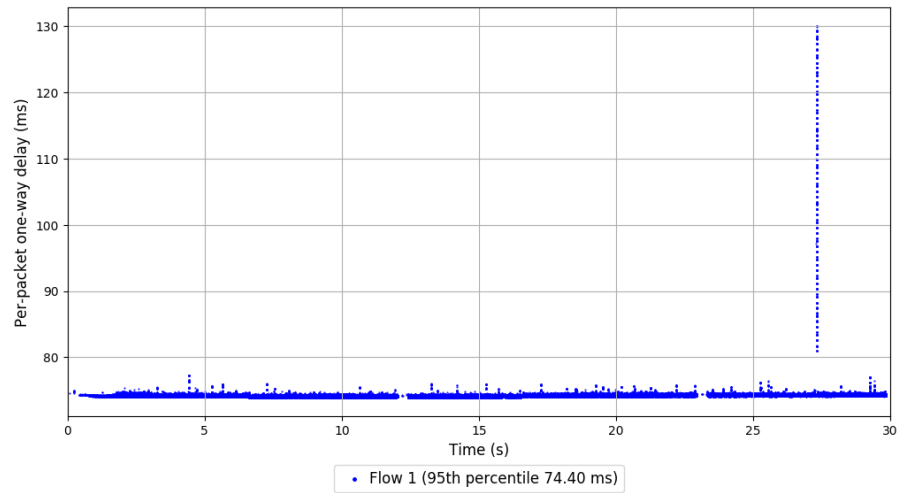
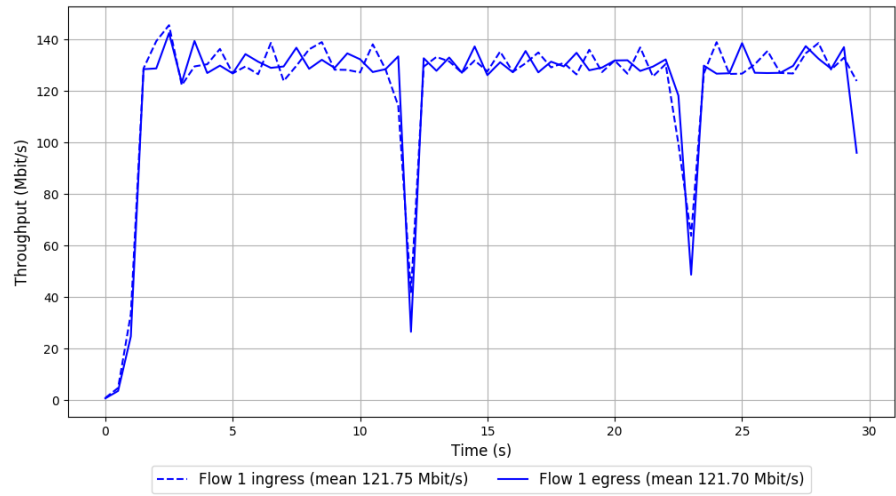
-- Flow 1:

Average throughput: 121.70 Mbit/s

95th percentile per-packet one-way delay: 74.402 ms

Loss rate: 0.66%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-12 20:42:58

End at: 2018-02-12 20:43:28

Below is generated by plot.py at 2018-02-13 00:34:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 119.81 Mbit/s

95th percentile per-packet one-way delay: 72.342 ms

Loss rate: 0.71%

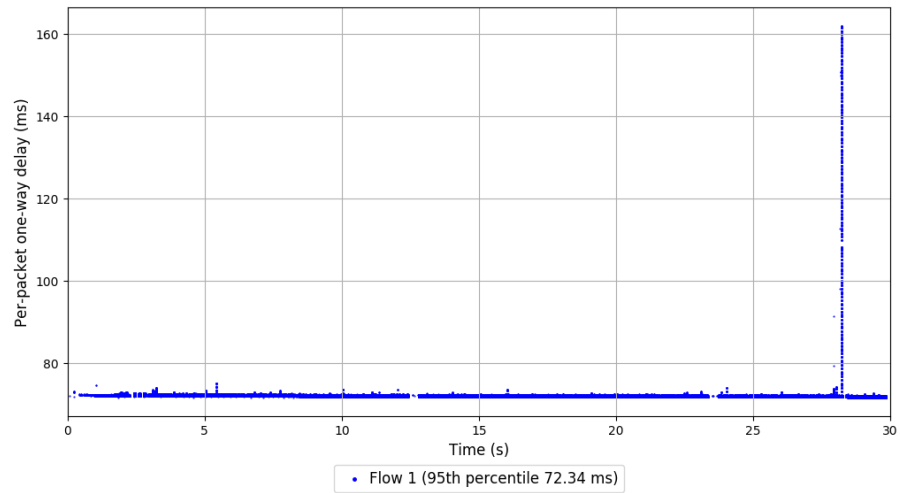
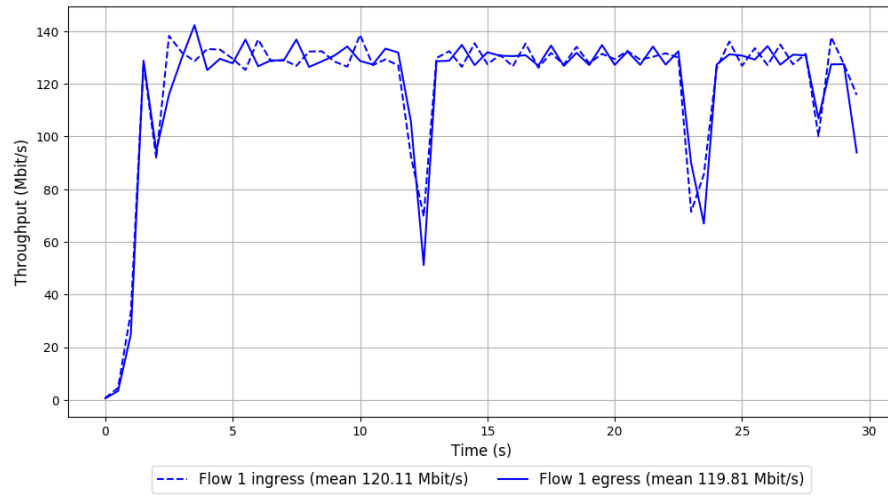
-- Flow 1:

Average throughput: 119.81 Mbit/s

95th percentile per-packet one-way delay: 72.342 ms

Loss rate: 0.71%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-12 20:58:15

End at: 2018-02-12 20:58:45

Below is generated by plot.py at 2018-02-13 00:34:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 122.95 Mbit/s

95th percentile per-packet one-way delay: 78.980 ms

Loss rate: 0.64%

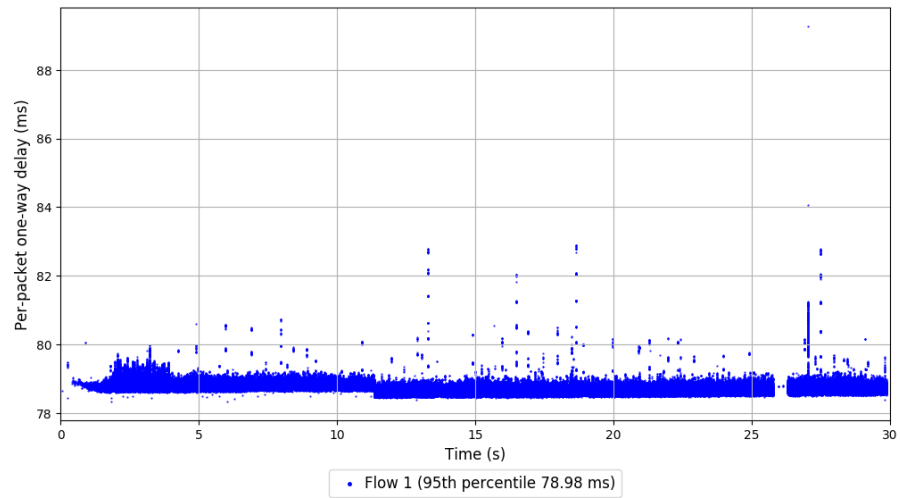
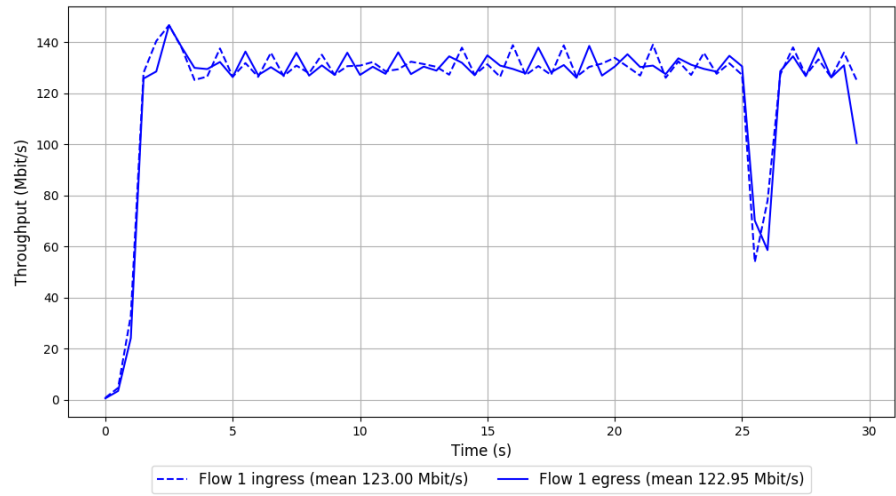
-- Flow 1:

Average throughput: 122.95 Mbit/s

95th percentile per-packet one-way delay: 78.980 ms

Loss rate: 0.64%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-12 21:13:44

End at: 2018-02-12 21:14:14

Below is generated by plot.py at 2018-02-13 00:34:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 112.95 Mbit/s

95th percentile per-packet one-way delay: 78.814 ms

Loss rate: 0.86%

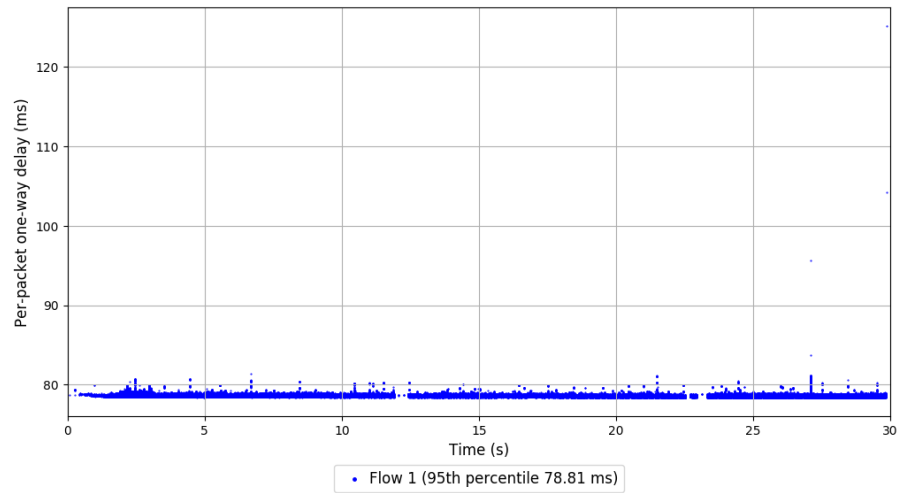
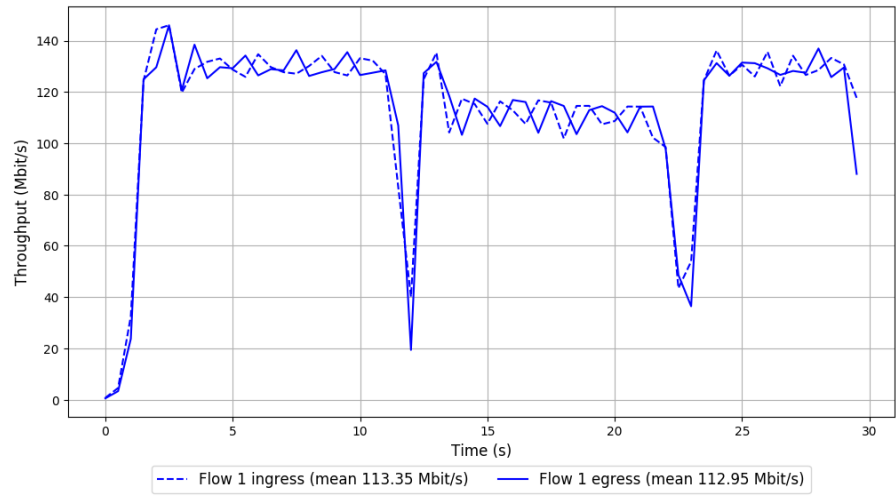
-- Flow 1:

Average throughput: 112.95 Mbit/s

95th percentile per-packet one-way delay: 78.814 ms

Loss rate: 0.86%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-12 21:29:12

End at: 2018-02-12 21:29:42

Below is generated by plot.py at 2018-02-13 00:35:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.98 Mbit/s

95th percentile per-packet one-way delay: 82.232 ms

Loss rate: 0.59%

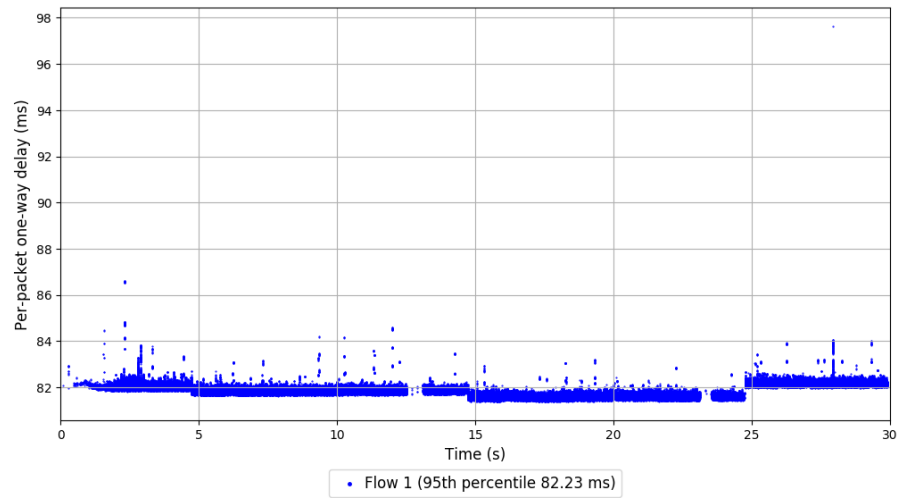
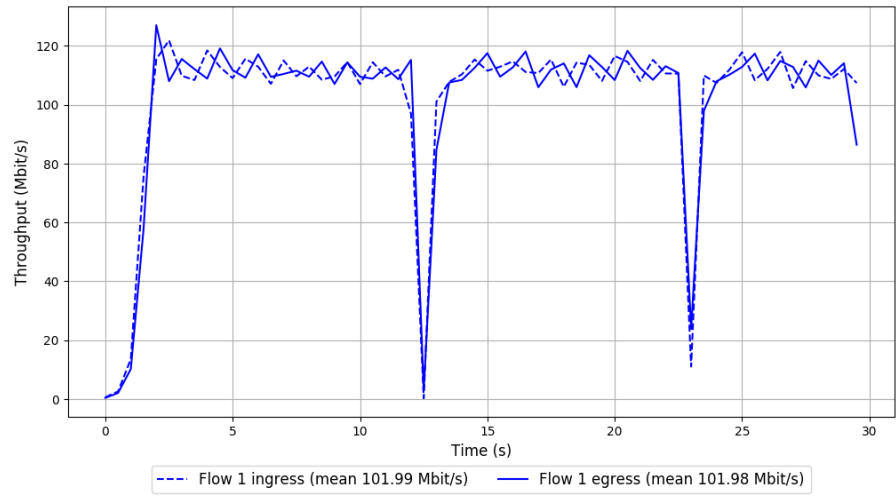
-- Flow 1:

Average throughput: 101.98 Mbit/s

95th percentile per-packet one-way delay: 82.232 ms

Loss rate: 0.59%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-12 21:44:16

End at: 2018-02-12 21:44:47

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 119.63 Mbit/s

95th percentile per-packet one-way delay: 83.938 ms

Loss rate: 0.64%

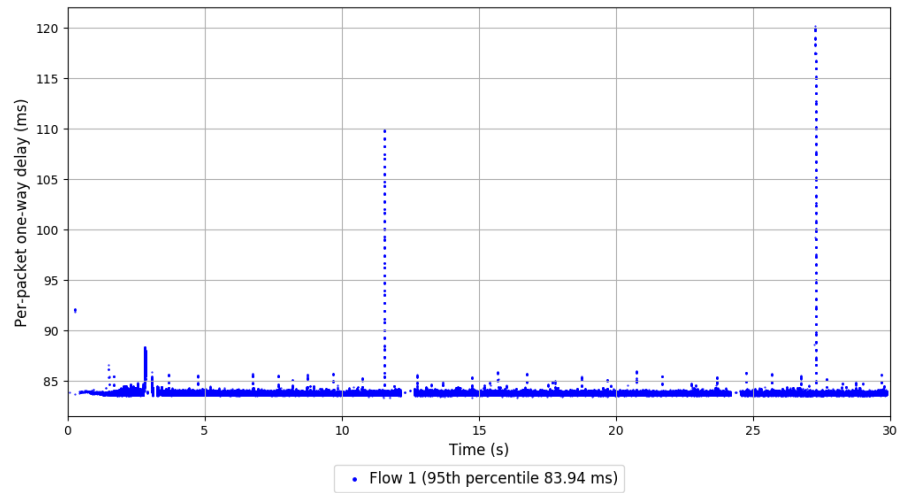
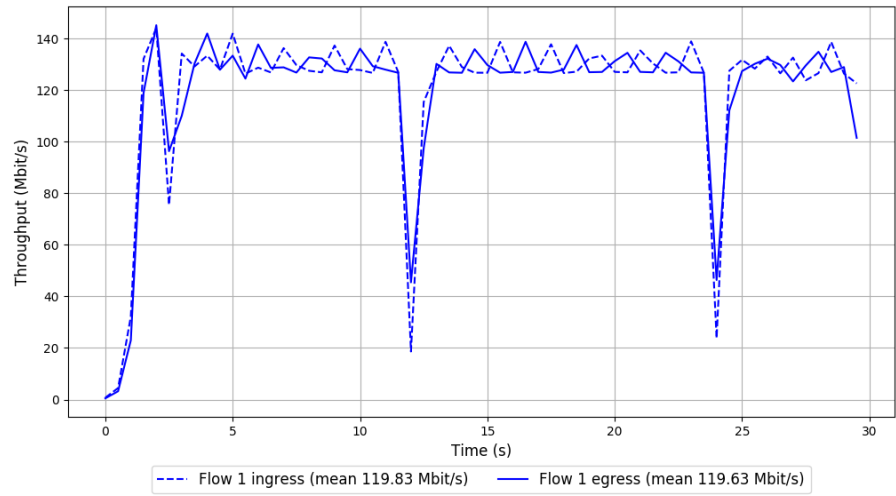
-- Flow 1:

Average throughput: 119.63 Mbit/s

95th percentile per-packet one-way delay: 83.938 ms

Loss rate: 0.64%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-12 19:31:10

End at: 2018-02-12 19:31:40

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.80 Mbit/s

95th percentile per-packet one-way delay: 74.346 ms

Loss rate: 0.66%

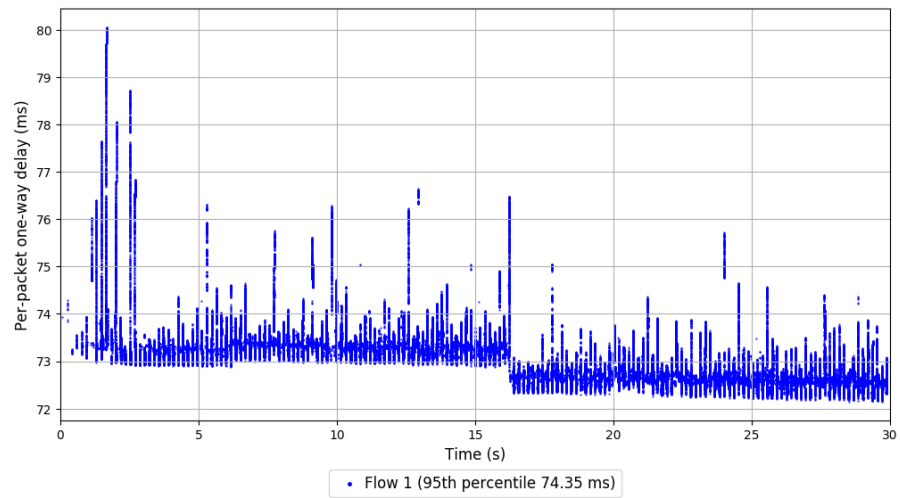
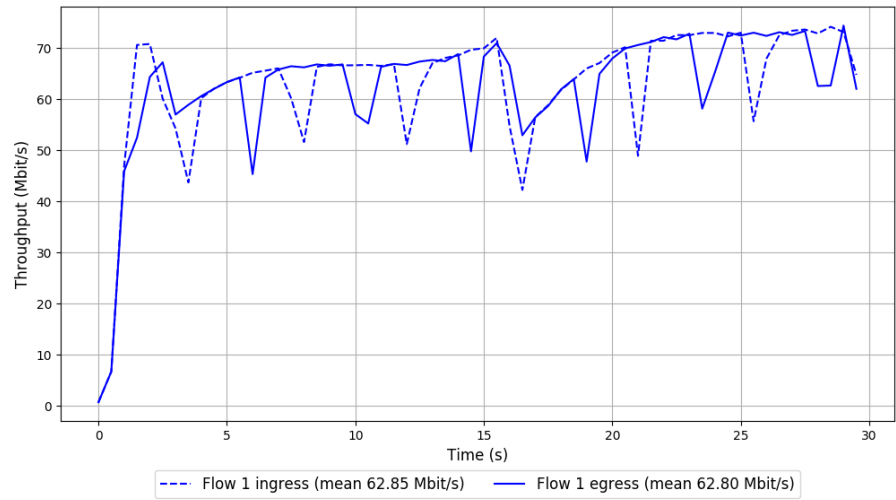
-- Flow 1:

Average throughput: 62.80 Mbit/s

95th percentile per-packet one-way delay: 74.346 ms

Loss rate: 0.66%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-12 19:46:25

End at: 2018-02-12 19:46:55

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.93 Mbit/s

95th percentile per-packet one-way delay: 72.976 ms

Loss rate: 0.52%

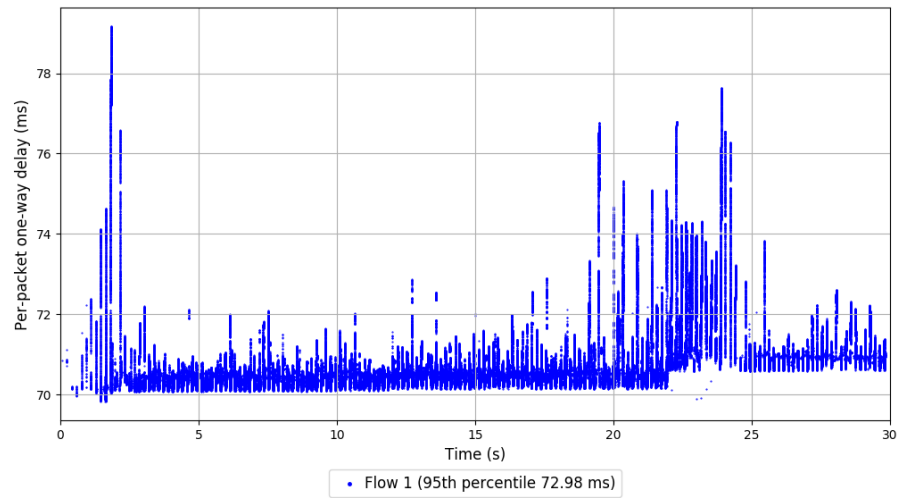
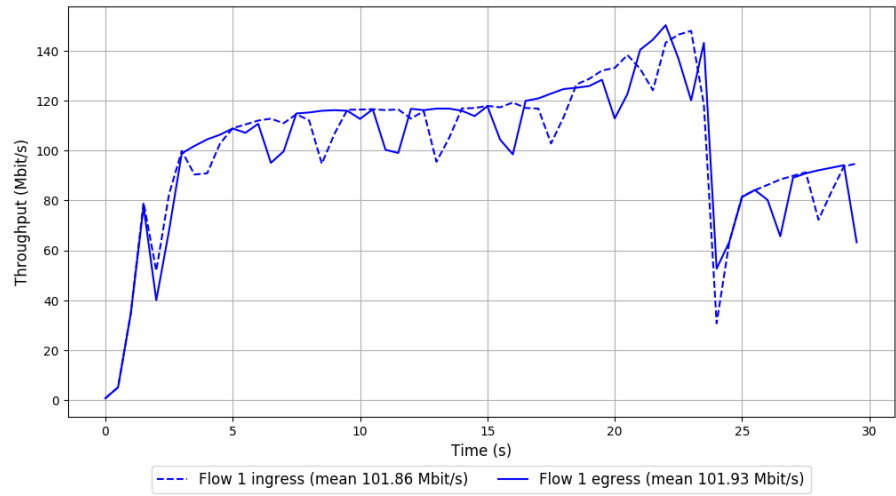
-- Flow 1:

Average throughput: 101.93 Mbit/s

95th percentile per-packet one-way delay: 72.976 ms

Loss rate: 0.52%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-12 20:01:46

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

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.71 Mbit/s

95th percentile per-packet one-way delay: 65.342 ms

Loss rate: 0.66%

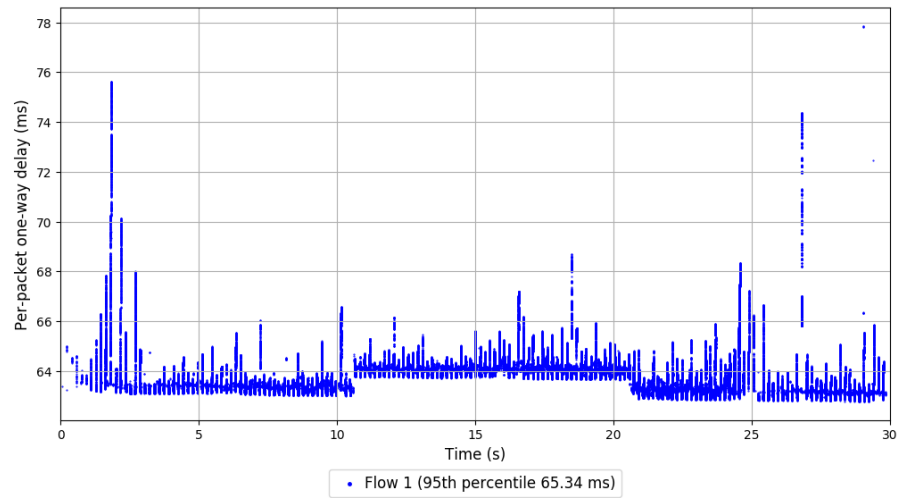
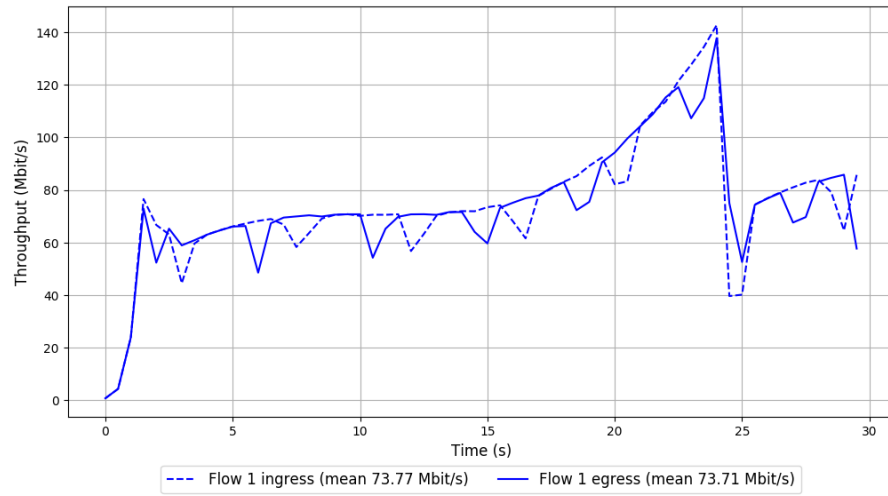
-- Flow 1:

Average throughput: 73.71 Mbit/s

95th percentile per-packet one-way delay: 65.342 ms

Loss rate: 0.66%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-12 20:17:03

End at: 2018-02-12 20:17:33

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.90 Mbit/s

95th percentile per-packet one-way delay: 66.605 ms

Loss rate: 0.81%

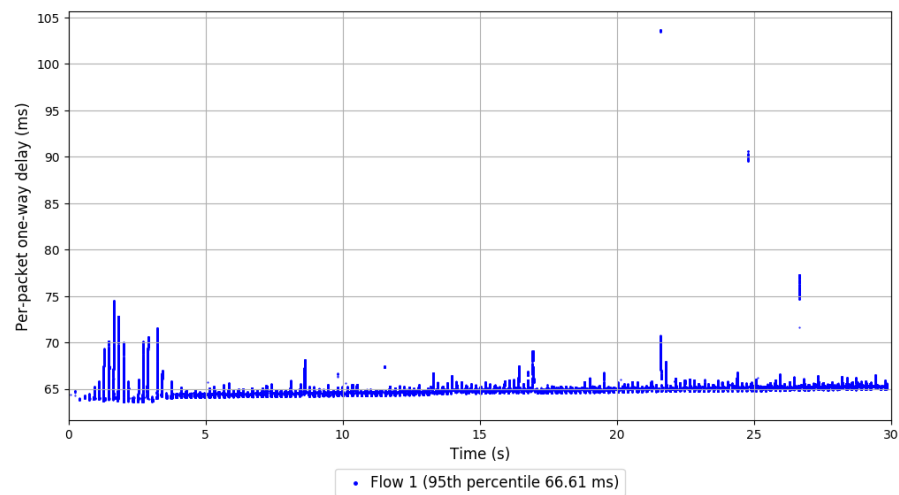
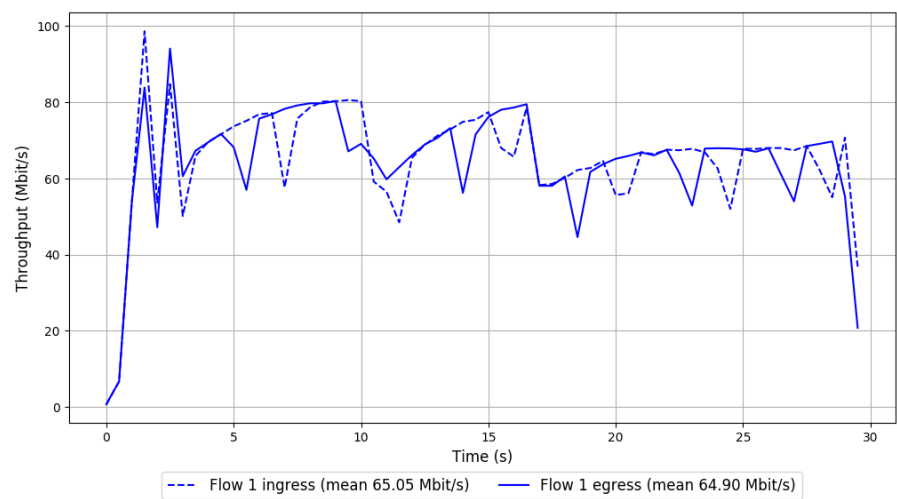
-- Flow 1:

Average throughput: 64.90 Mbit/s

95th percentile per-packet one-way delay: 66.605 ms

Loss rate: 0.81%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-12 20:32:35

End at: 2018-02-12 20:33:05

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.42 Mbit/s

95th percentile per-packet one-way delay: 75.689 ms

Loss rate: 0.63%

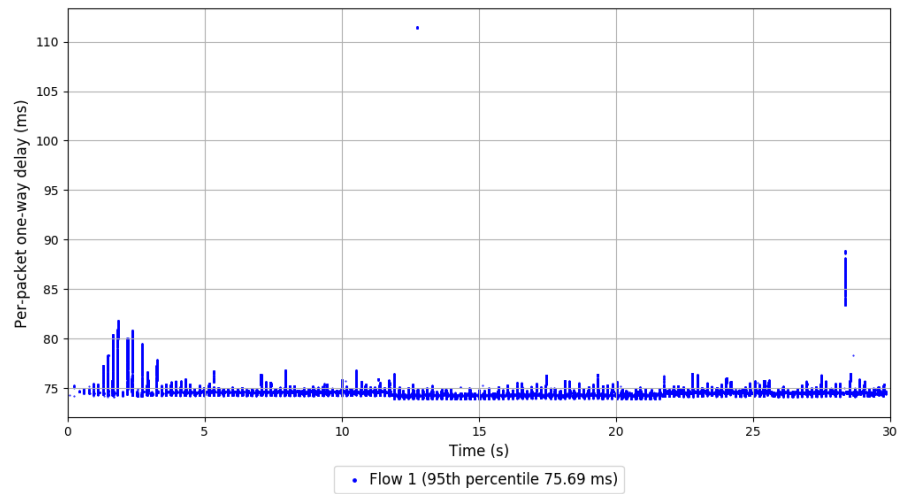
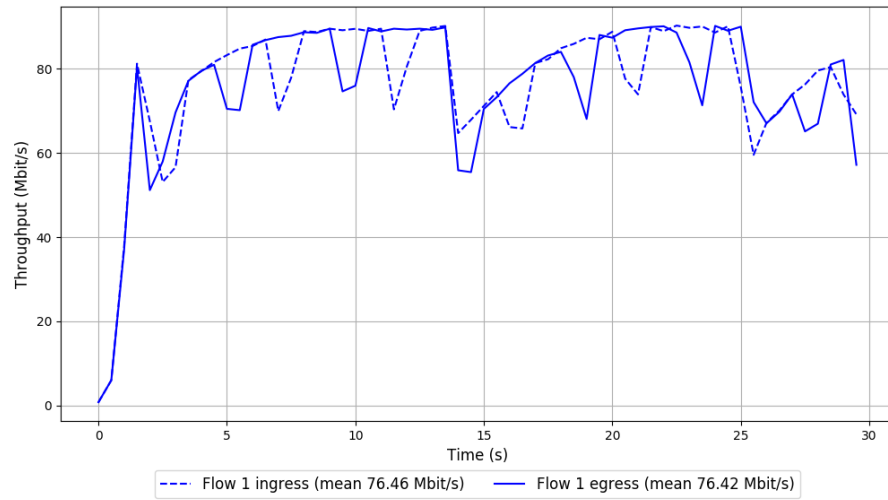
-- Flow 1:

Average throughput: 76.42 Mbit/s

95th percentile per-packet one-way delay: 75.689 ms

Loss rate: 0.63%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-12 20:47:59

End at: 2018-02-12 20:48:30

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.03 Mbit/s

95th percentile per-packet one-way delay: 73.451 ms

Loss rate: 1.19%

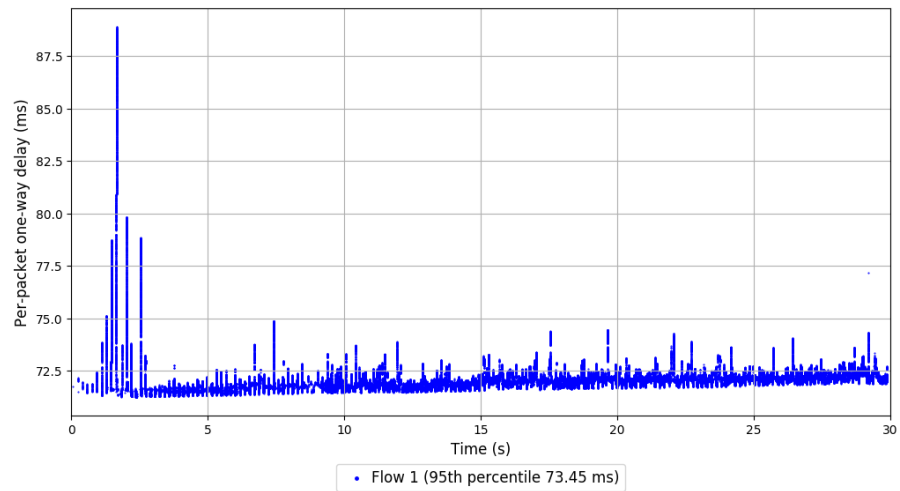
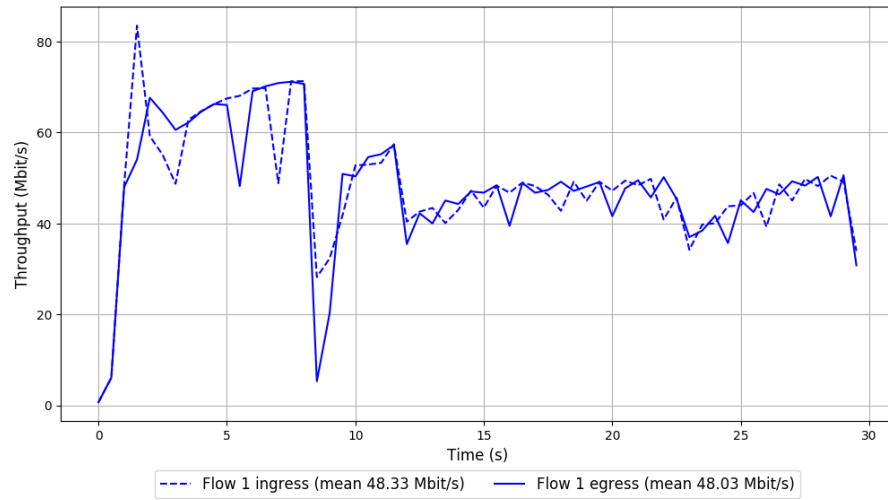
-- Flow 1:

Average throughput: 48.03 Mbit/s

95th percentile per-packet one-way delay: 73.451 ms

Loss rate: 1.19%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-12 21:03:16

End at: 2018-02-12 21:03:46

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.25 Mbit/s

95th percentile per-packet one-way delay: 81.371 ms

Loss rate: 0.57%

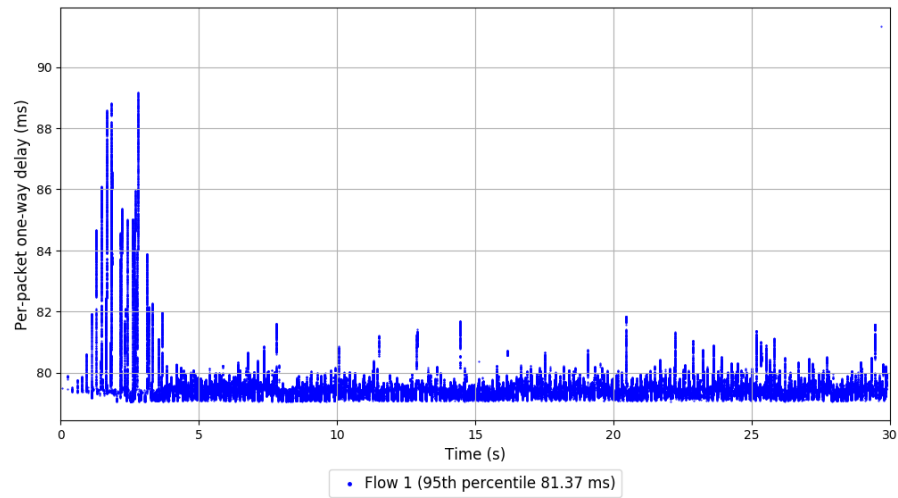
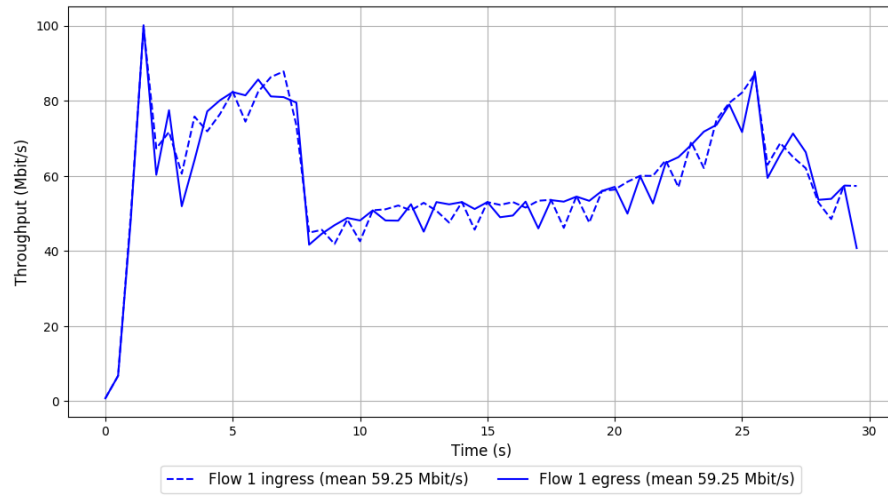
-- Flow 1:

Average throughput: 59.25 Mbit/s

95th percentile per-packet one-way delay: 81.371 ms

Loss rate: 0.57%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-12 21:18:46

End at: 2018-02-12 21:19:16

Below is generated by plot.py at 2018-02-13 00:36:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.15 Mbit/s

95th percentile per-packet one-way delay: 79.522 ms

Loss rate: 0.76%

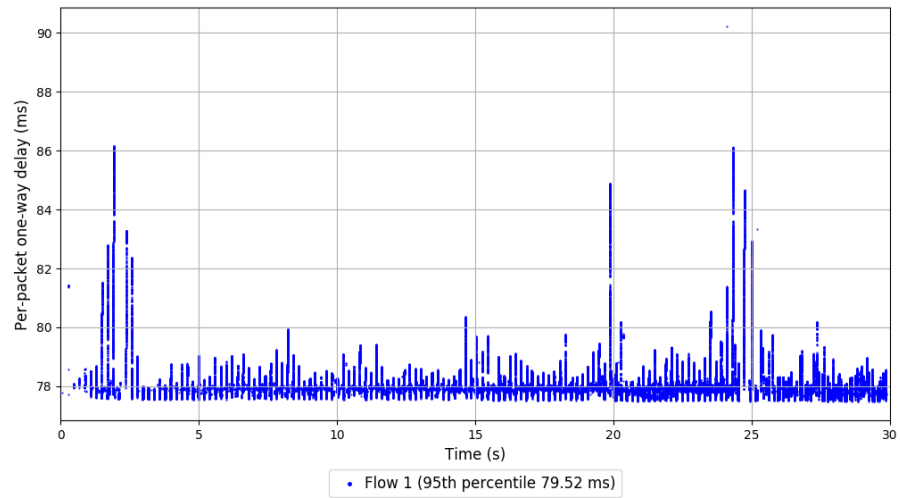
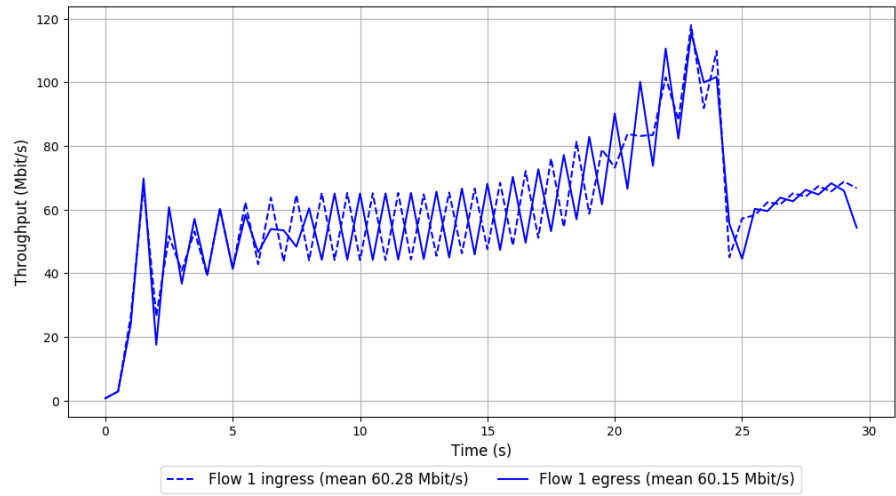
-- Flow 1:

Average throughput: 60.15 Mbit/s

95th percentile per-packet one-way delay: 79.522 ms

Loss rate: 0.76%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-12 21:34:13

End at: 2018-02-12 21:34:43

Below is generated by plot.py at 2018-02-13 00:36:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.27 Mbit/s

95th percentile per-packet one-way delay: 84.716 ms

Loss rate: 1.33%

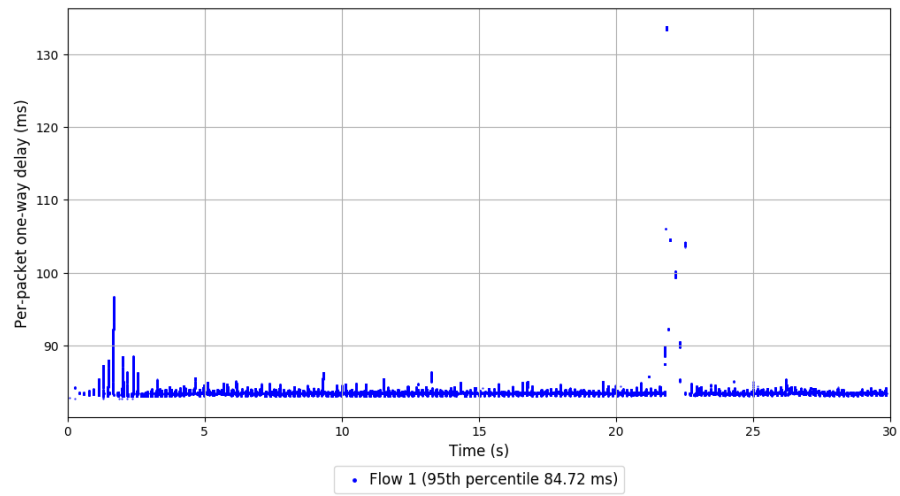
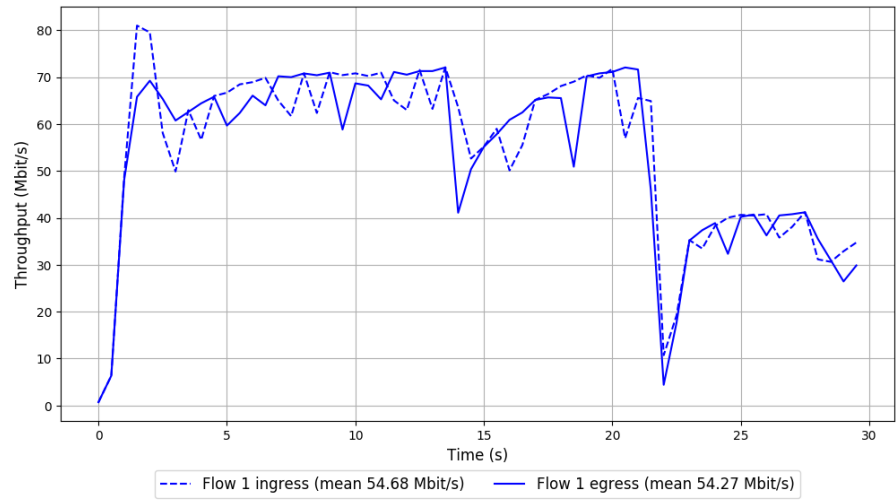
-- Flow 1:

Average throughput: 54.27 Mbit/s

95th percentile per-packet one-way delay: 84.716 ms

Loss rate: 1.33%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-12 21:49:17

End at: 2018-02-12 21:49:47

Below is generated by plot.py at 2018-02-13 00:36:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.18 Mbit/s

95th percentile per-packet one-way delay: 85.157 ms

Loss rate: 0.68%

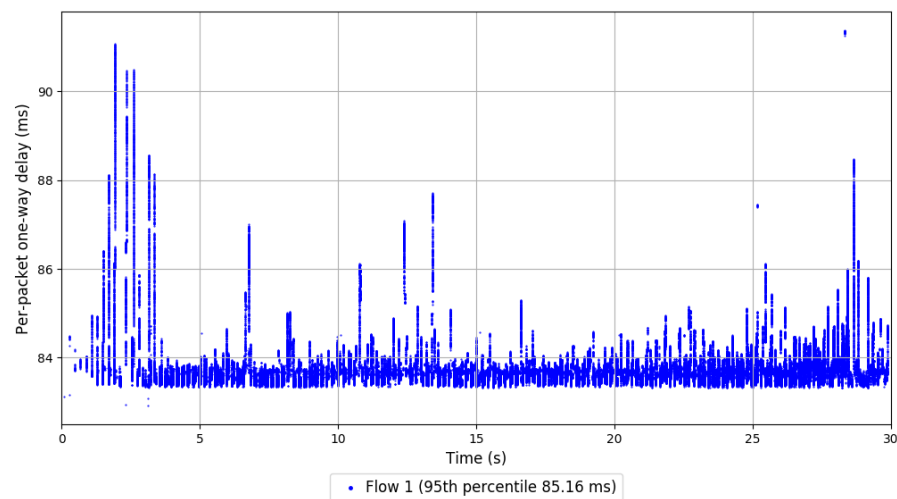
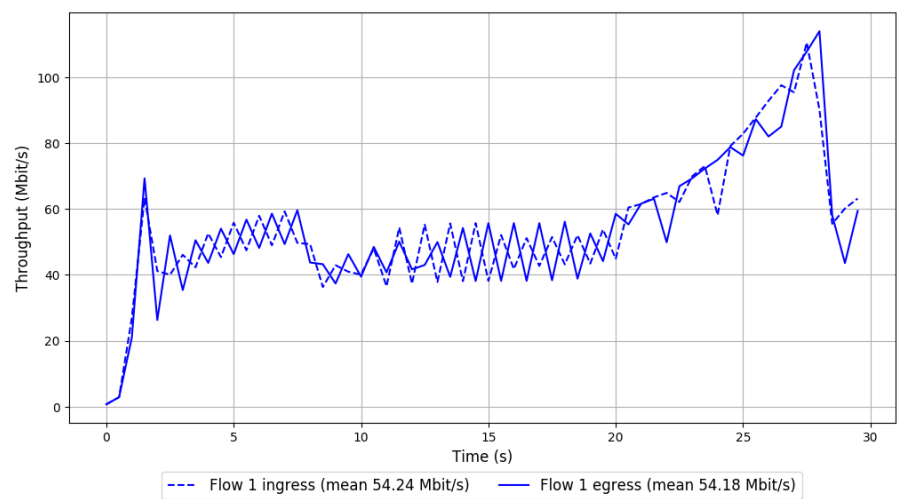
-- Flow 1:

Average throughput: 54.18 Mbit/s

95th percentile per-packet one-way delay: 85.157 ms

Loss rate: 0.68%

Run 10: Report of TCP Cubic — Data Link

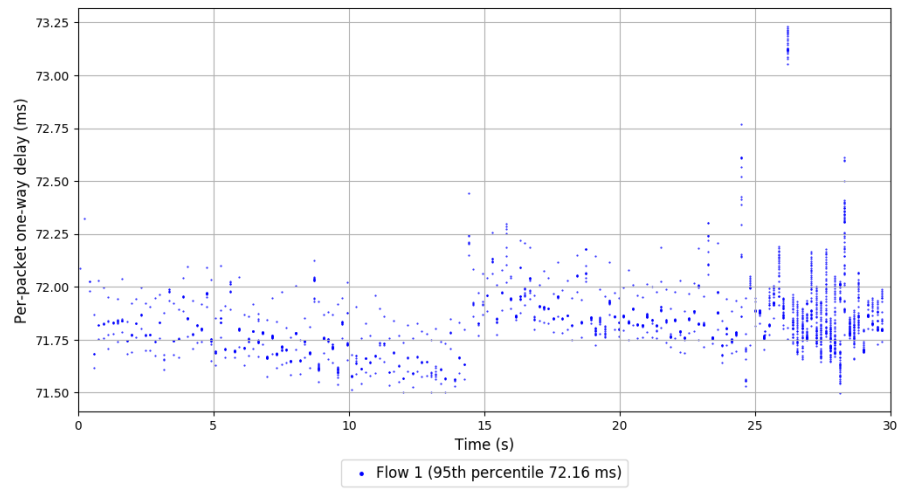
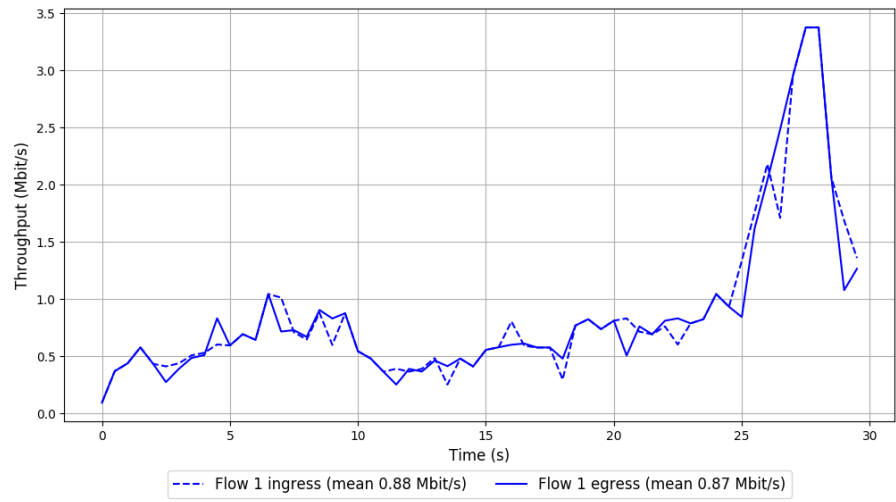


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-12 19:32:32
End at: 2018-02-12 19:33:02

# Below is generated by plot.py at 2018-02-13 00:36:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.87 Mbit/s
95th percentile per-packet one-way delay: 72.156 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 0.87 Mbit/s
95th percentile per-packet one-way delay: 72.156 ms
Loss rate: 1.34%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-02-12 19:47:48

End at: 2018-02-12 19:48:18

Below is generated by plot.py at 2018-02-13 00:36:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.73 Mbit/s

95th percentile per-packet one-way delay: 70.917 ms

Loss rate: 1.27%

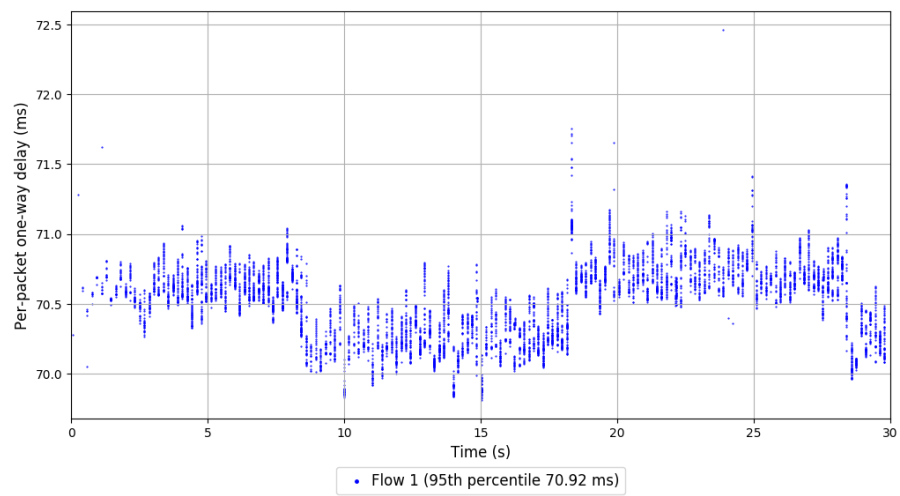
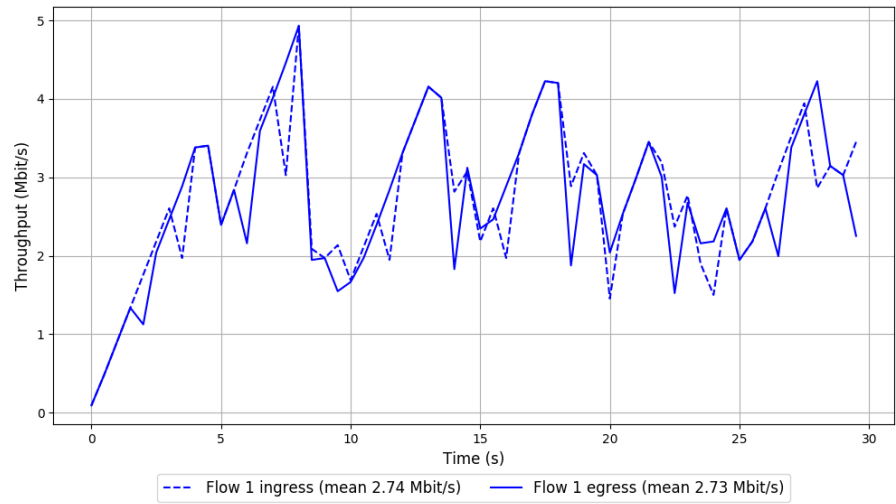
-- Flow 1:

Average throughput: 2.73 Mbit/s

95th percentile per-packet one-way delay: 70.917 ms

Loss rate: 1.27%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-12 20:03:08

End at: 2018-02-12 20:03:38

Below is generated by plot.py at 2018-02-13 00:36:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.79 Mbit/s

95th percentile per-packet one-way delay: 63.334 ms

Loss rate: 1.07%

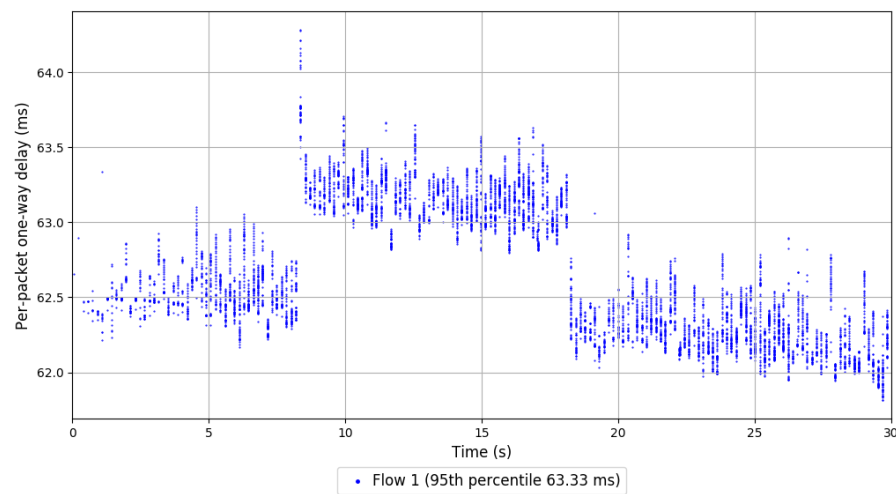
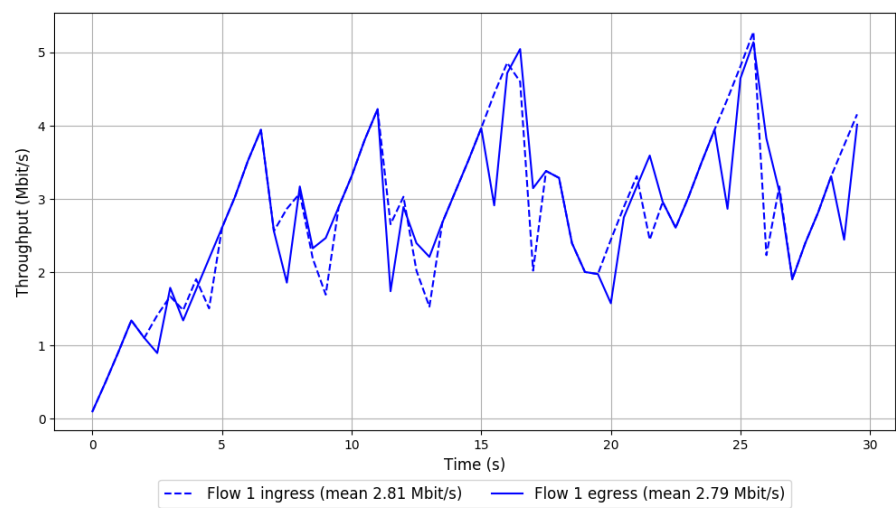
-- Flow 1:

Average throughput: 2.79 Mbit/s

95th percentile per-packet one-way delay: 63.334 ms

Loss rate: 1.07%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-12 20:18:25

End at: 2018-02-12 20:18:55

Below is generated by plot.py at 2018-02-13 00:36:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 67.913 ms

Loss rate: 1.14%

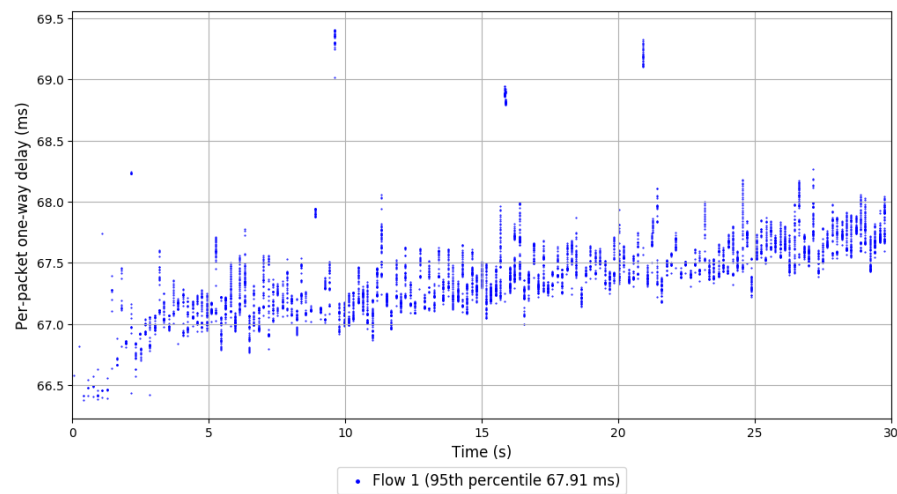
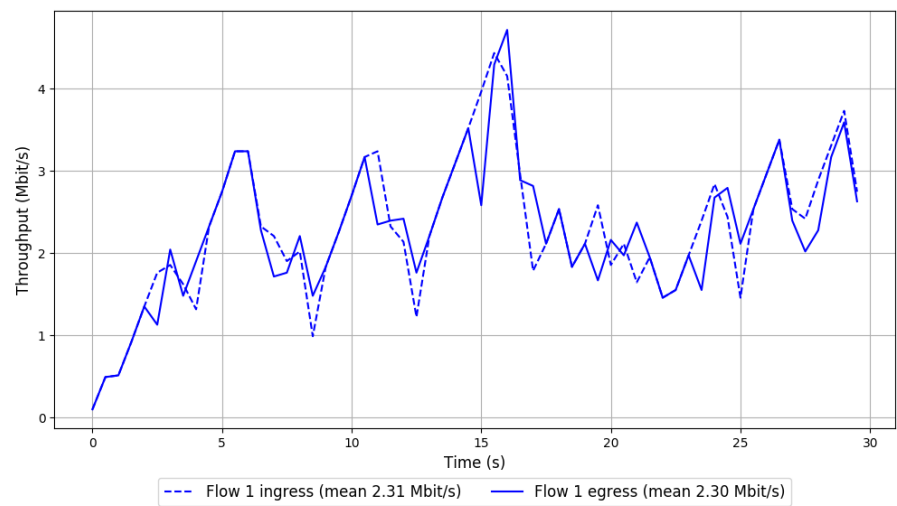
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 67.913 ms

Loss rate: 1.14%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-12 20:33:57

End at: 2018-02-12 20:34:27

Below is generated by plot.py at 2018-02-13 00:36:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.72 Mbit/s

95th percentile per-packet one-way delay: 74.793 ms

Loss rate: 1.16%

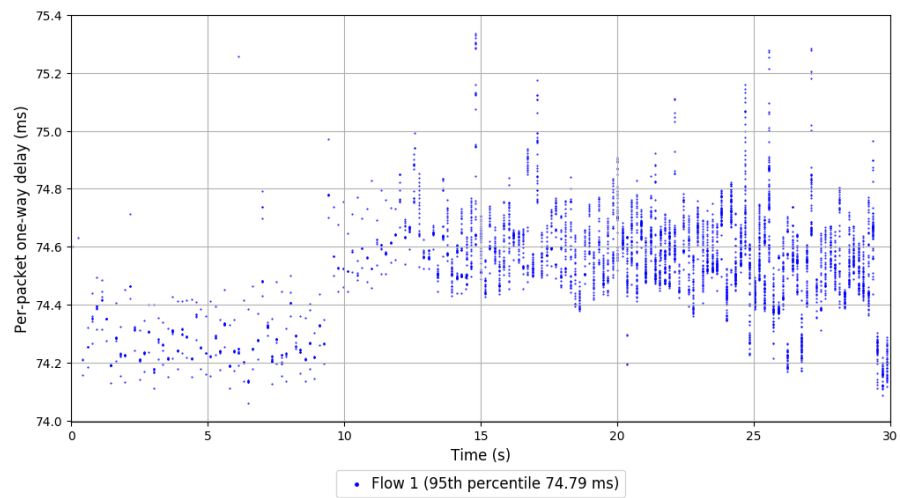
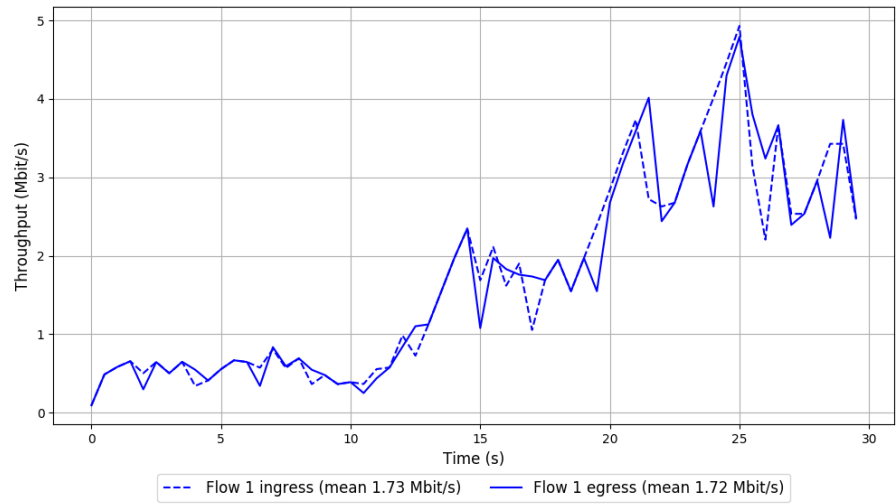
-- Flow 1:

Average throughput: 1.72 Mbit/s

95th percentile per-packet one-way delay: 74.793 ms

Loss rate: 1.16%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-12 20:49:21

End at: 2018-02-12 20:49:51

Below is generated by plot.py at 2018-02-13 00:36:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.00 Mbit/s

95th percentile per-packet one-way delay: 74.340 ms

Loss rate: 0.77%

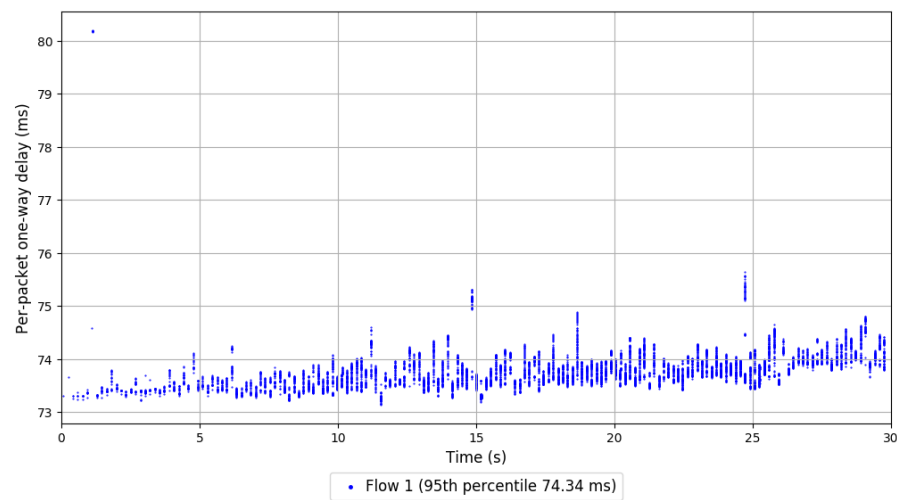
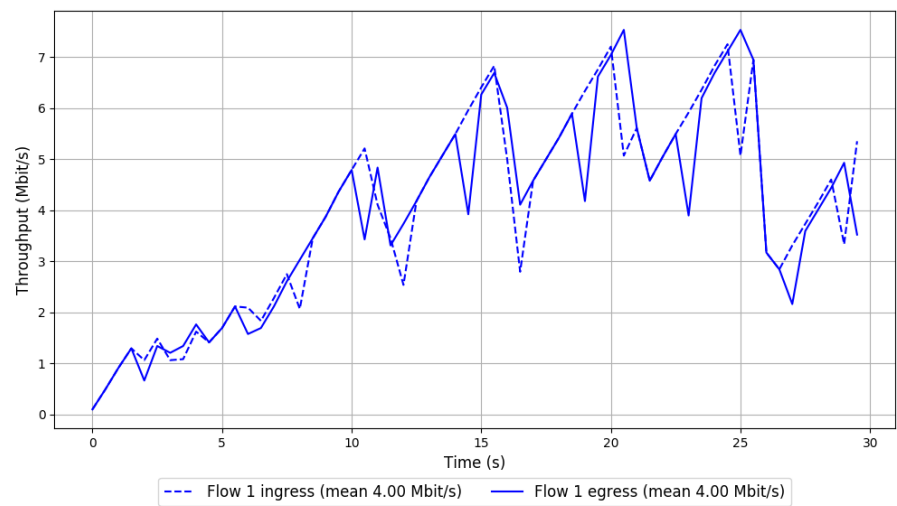
-- Flow 1:

Average throughput: 4.00 Mbit/s

95th percentile per-packet one-way delay: 74.340 ms

Loss rate: 0.77%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-12 21:04:37

End at: 2018-02-12 21:05:07

Below is generated by plot.py at 2018-02-13 00:36:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 79.863 ms

Loss rate: 1.40%

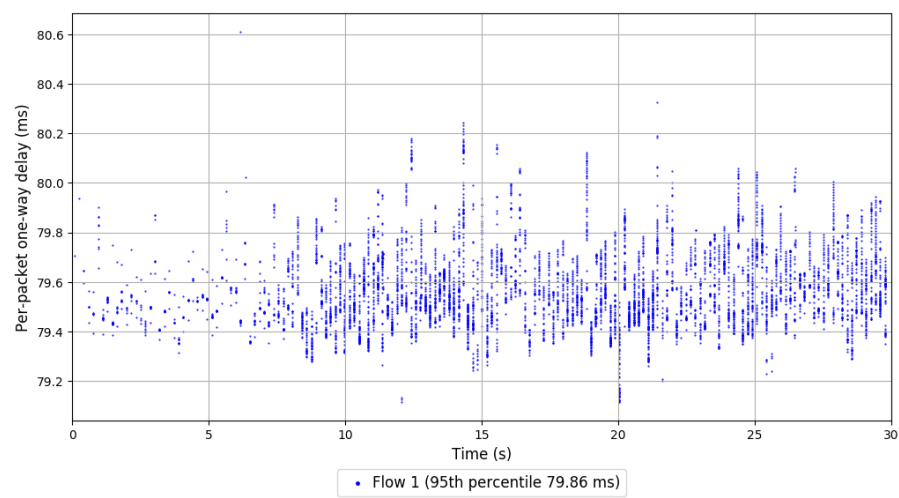
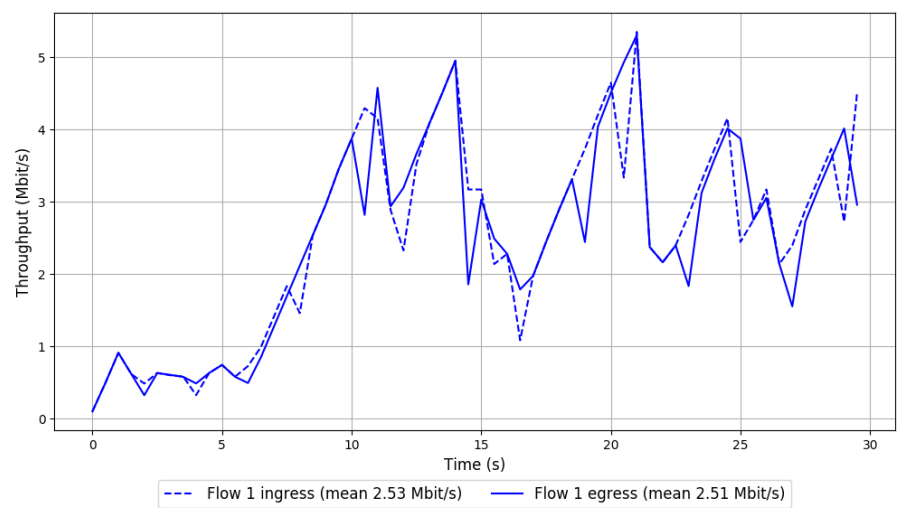
-- Flow 1:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 79.863 ms

Loss rate: 1.40%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-12 21:20:08

End at: 2018-02-12 21:20:38

Below is generated by plot.py at 2018-02-13 00:36:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.48 Mbit/s

95th percentile per-packet one-way delay: 78.057 ms

Loss rate: 1.36%

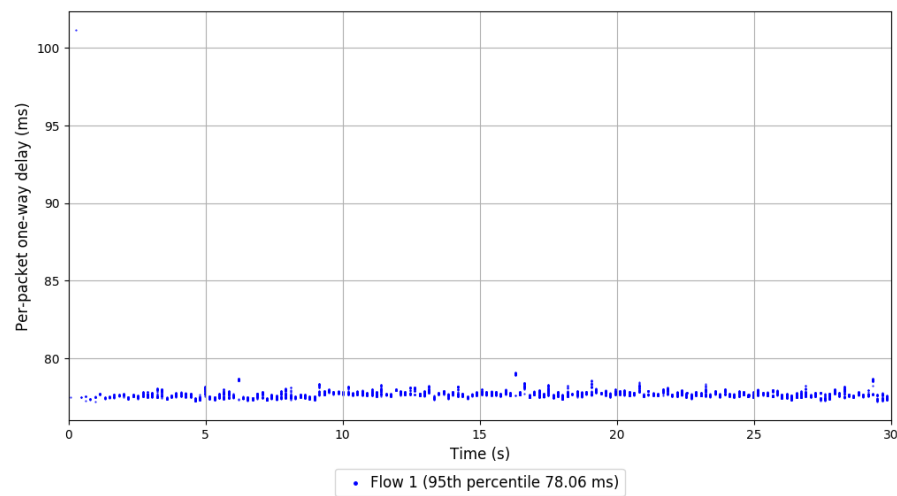
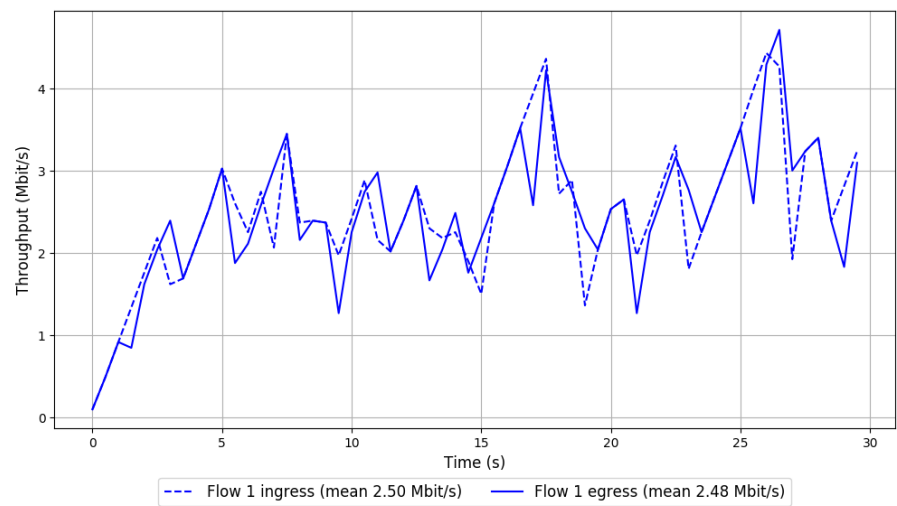
-- Flow 1:

Average throughput: 2.48 Mbit/s

95th percentile per-packet one-way delay: 78.057 ms

Loss rate: 1.36%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-12 21:35:34

End at: 2018-02-12 21:36:04

Below is generated by plot.py at 2018-02-13 00:36:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.85 Mbit/s

95th percentile per-packet one-way delay: 84.252 ms

Loss rate: 0.81%

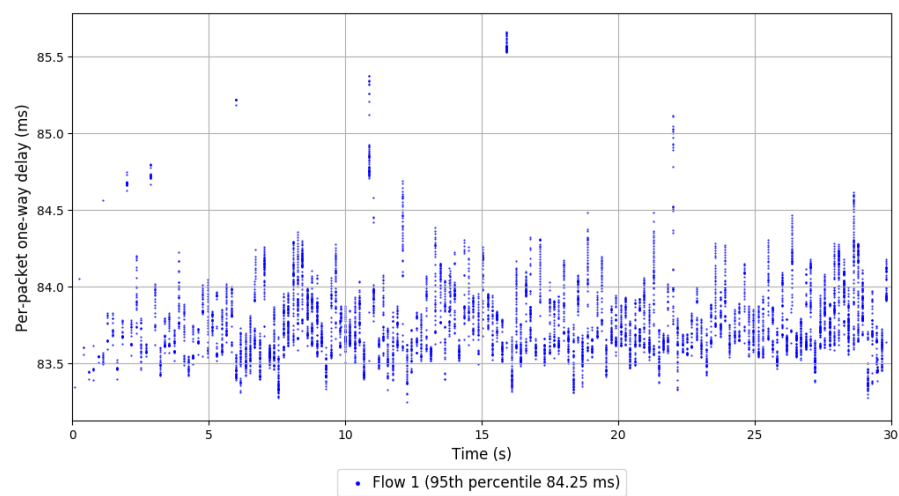
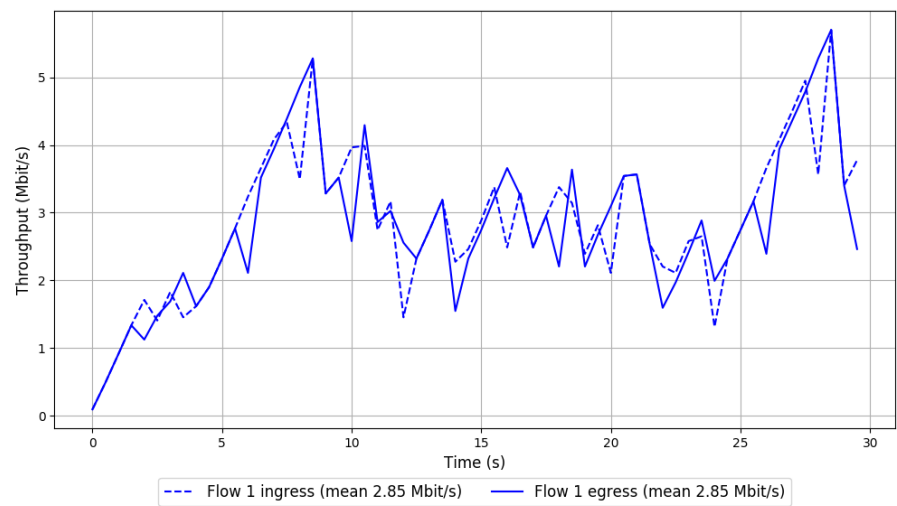
-- Flow 1:

Average throughput: 2.85 Mbit/s

95th percentile per-packet one-way delay: 84.252 ms

Loss rate: 0.81%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-12 21:50:38

End at: 2018-02-12 21:51:08

Below is generated by plot.py at 2018-02-13 00:36:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.93 Mbit/s

95th percentile per-packet one-way delay: 84.507 ms

Loss rate: 0.92%

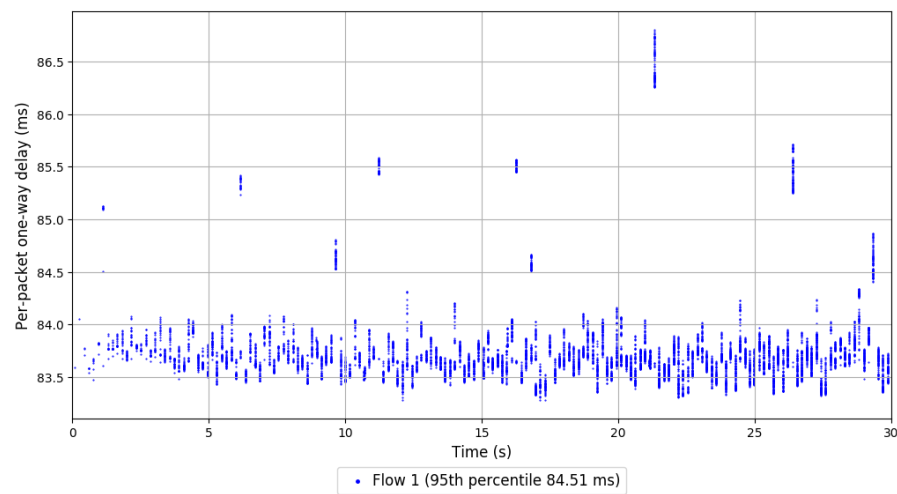
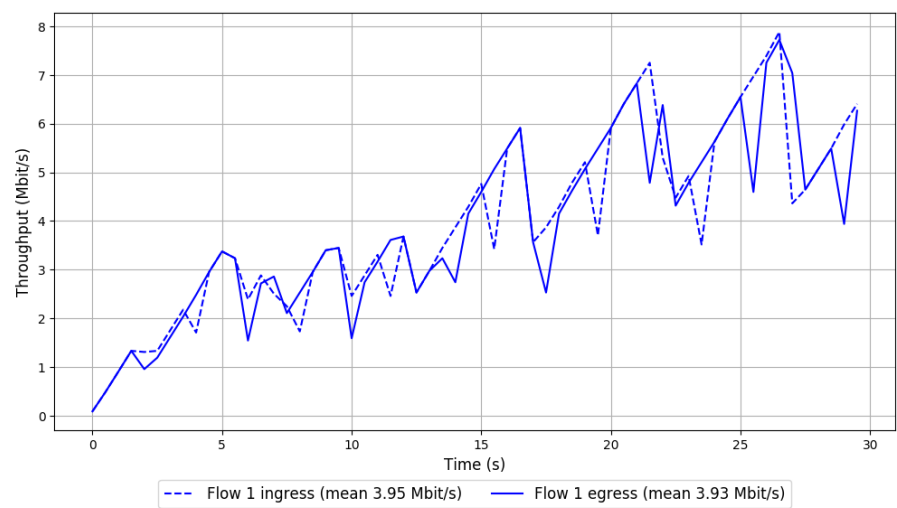
-- Flow 1:

Average throughput: 3.93 Mbit/s

95th percentile per-packet one-way delay: 84.507 ms

Loss rate: 0.92%

Run 10: Report of LEDBAT — Data Link

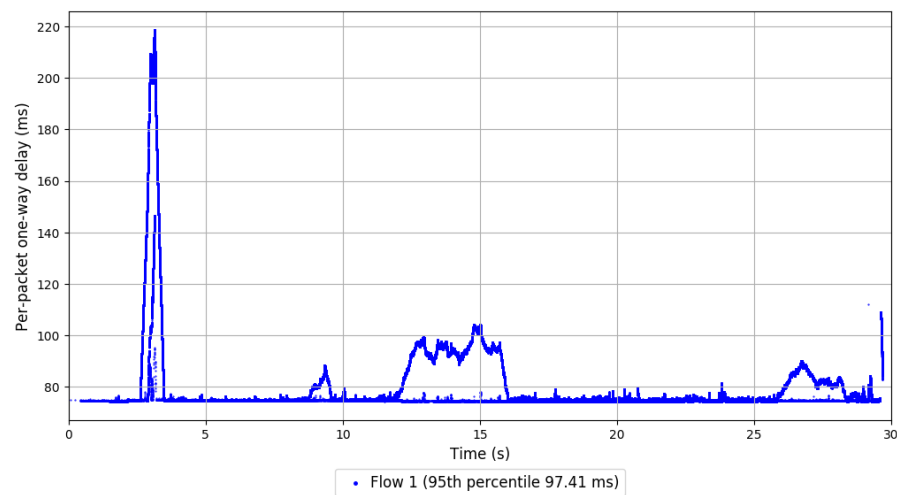
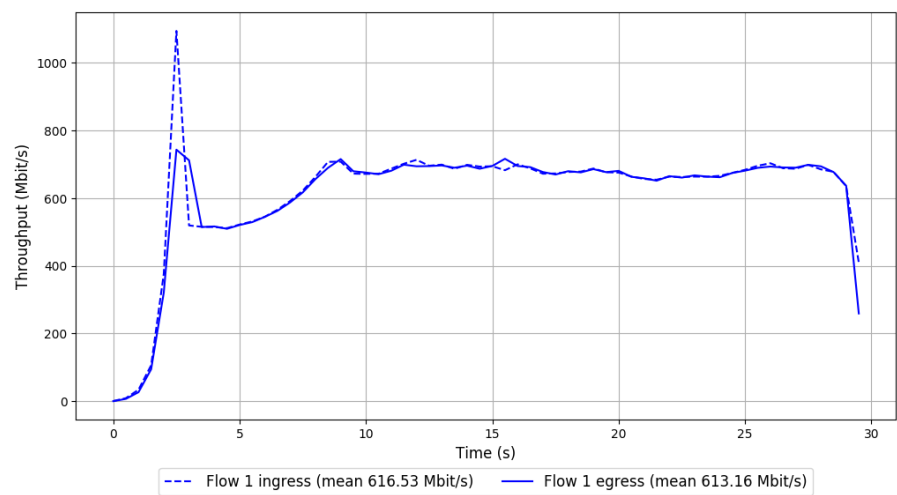


```
Run 1: Statistics of PCC

Start at: 2018-02-12 19:29:14
End at: 2018-02-12 19:29:44

# Below is generated by plot.py at 2018-02-13 00:44:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 613.16 Mbit/s
95th percentile per-packet one-way delay: 97.406 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 613.16 Mbit/s
95th percentile per-packet one-way delay: 97.406 ms
Loss rate: 1.13%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-12 19:44:34

End at: 2018-02-12 19:45:04

Below is generated by plot.py at 2018-02-13 00:45:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 613.29 Mbit/s

95th percentile per-packet one-way delay: 172.138 ms

Loss rate: 1.73%

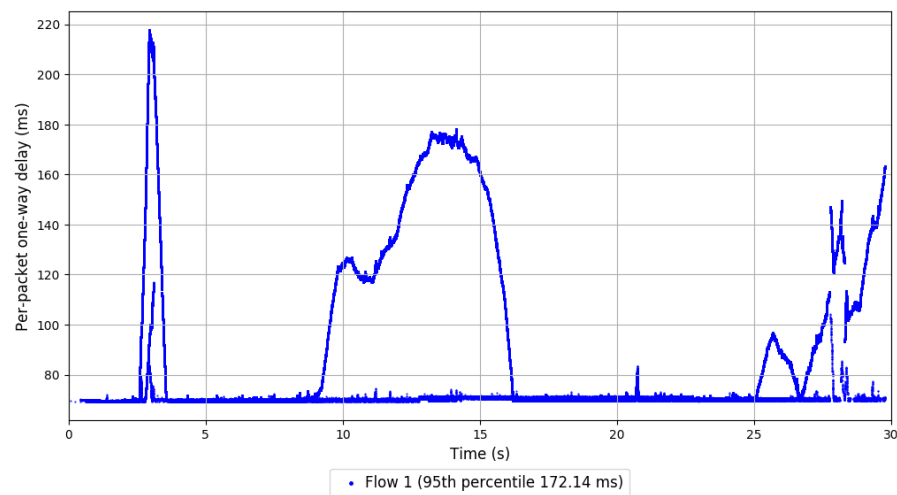
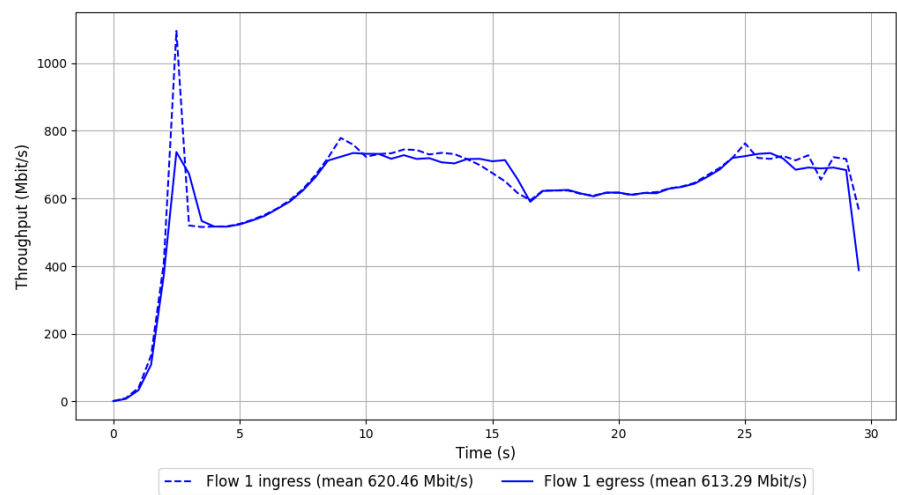
-- Flow 1:

Average throughput: 613.29 Mbit/s

95th percentile per-packet one-way delay: 172.138 ms

Loss rate: 1.73%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-12 19:59:53

End at: 2018-02-12 20:00:23

Below is generated by plot.py at 2018-02-13 00:45:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 586.92 Mbit/s

95th percentile per-packet one-way delay: 119.613 ms

Loss rate: 1.17%

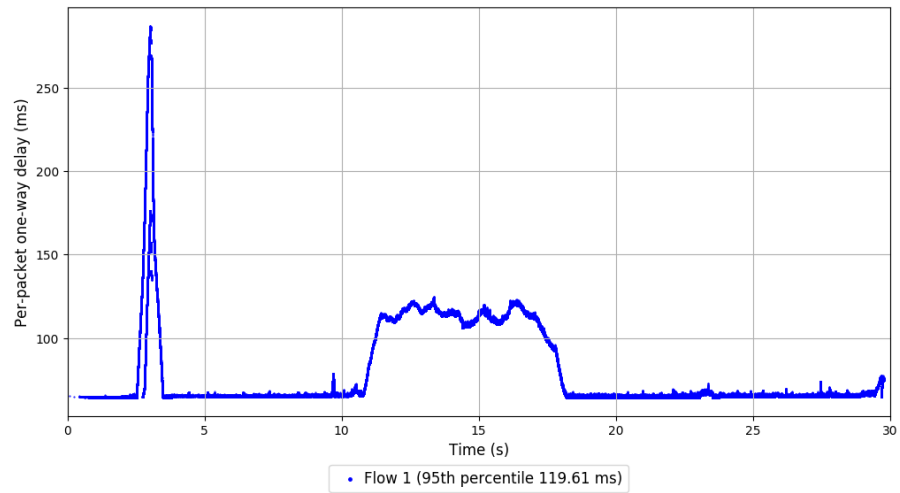
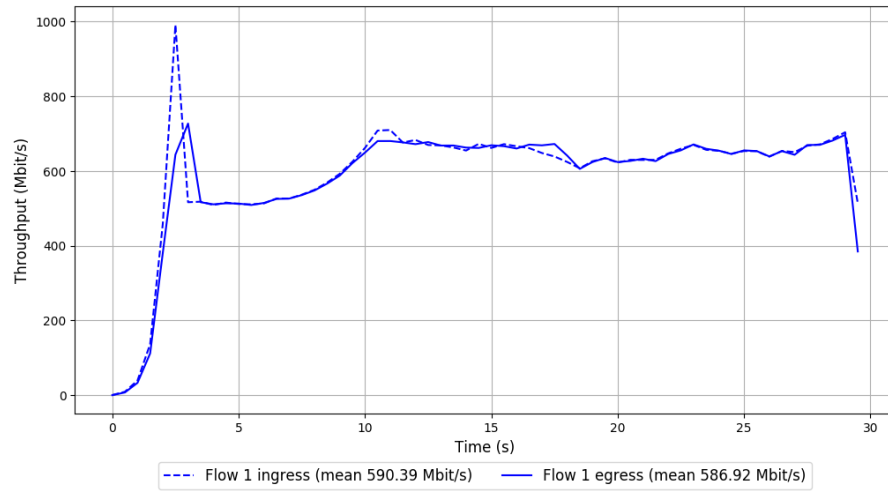
-- Flow 1:

Average throughput: 586.92 Mbit/s

95th percentile per-packet one-way delay: 119.613 ms

Loss rate: 1.17%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-12 20:15:08

End at: 2018-02-12 20:15:38

Below is generated by plot.py at 2018-02-13 00:45:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 607.04 Mbit/s

95th percentile per-packet one-way delay: 85.108 ms

Loss rate: 1.02%

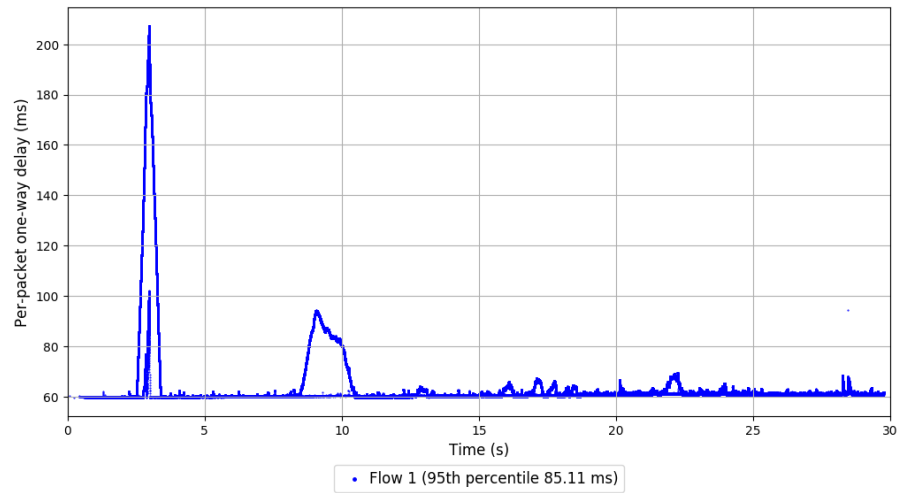
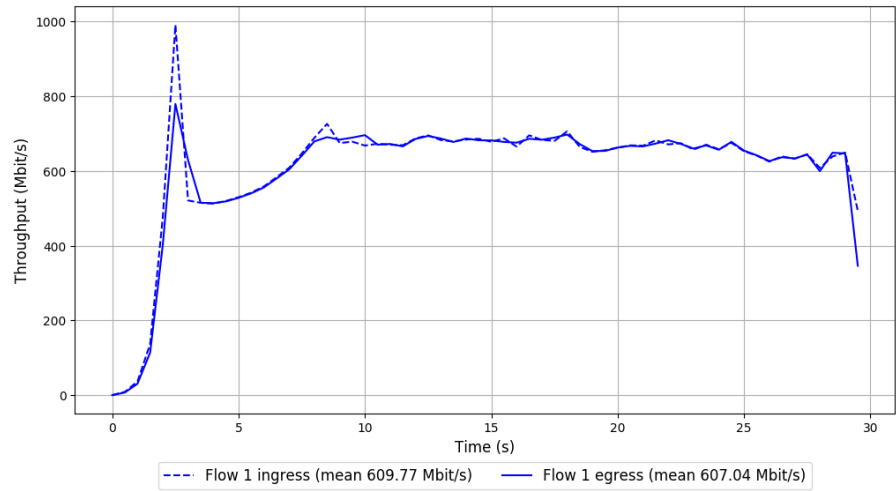
-- Flow 1:

Average throughput: 607.04 Mbit/s

95th percentile per-packet one-way delay: 85.108 ms

Loss rate: 1.02%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-12 20:30:40

End at: 2018-02-12 20:31:10

Below is generated by plot.py at 2018-02-13 00:45:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 617.56 Mbit/s

95th percentile per-packet one-way delay: 98.454 ms

Loss rate: 1.05%

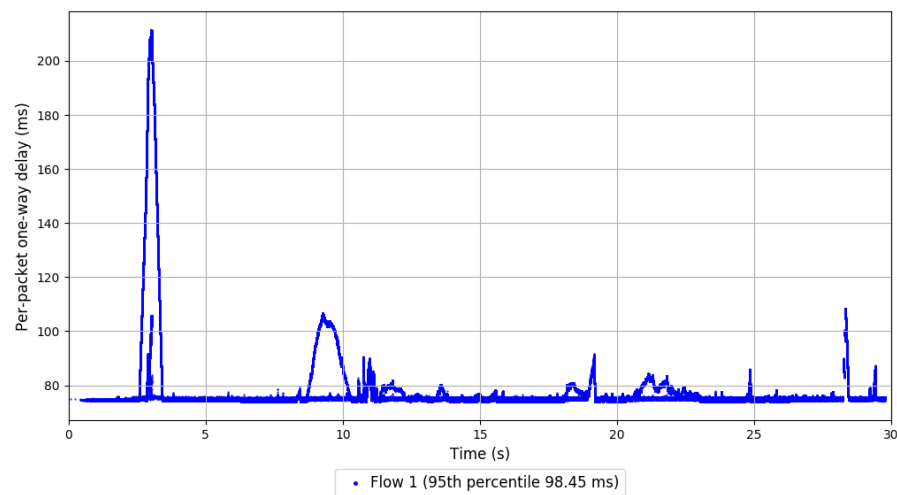
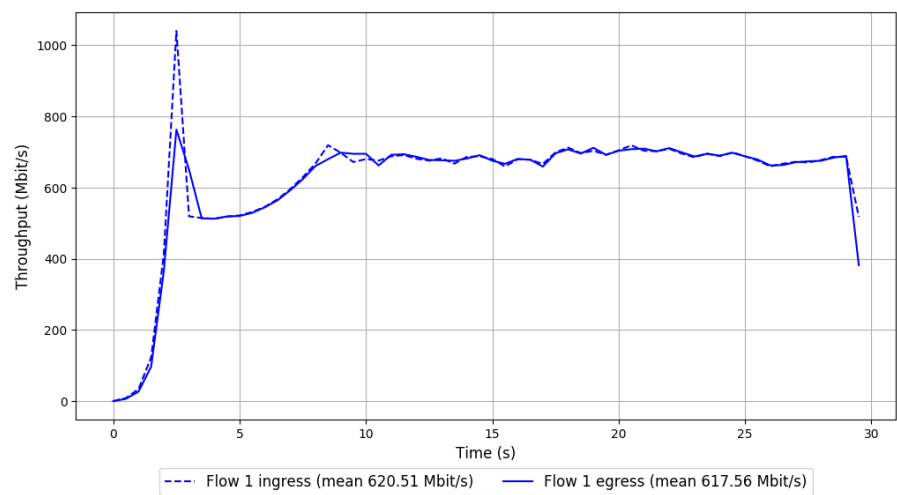
-- Flow 1:

Average throughput: 617.56 Mbit/s

95th percentile per-packet one-way delay: 98.454 ms

Loss rate: 1.05%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-12 20:46:08

End at: 2018-02-12 20:46:38

Below is generated by plot.py at 2018-02-13 00:45:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 567.47 Mbit/s

95th percentile per-packet one-way delay: 86.579 ms

Loss rate: 1.15%

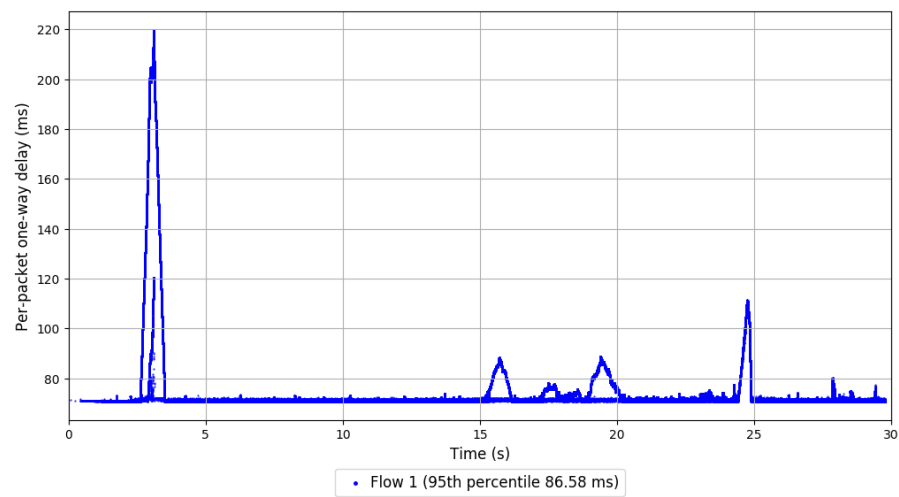
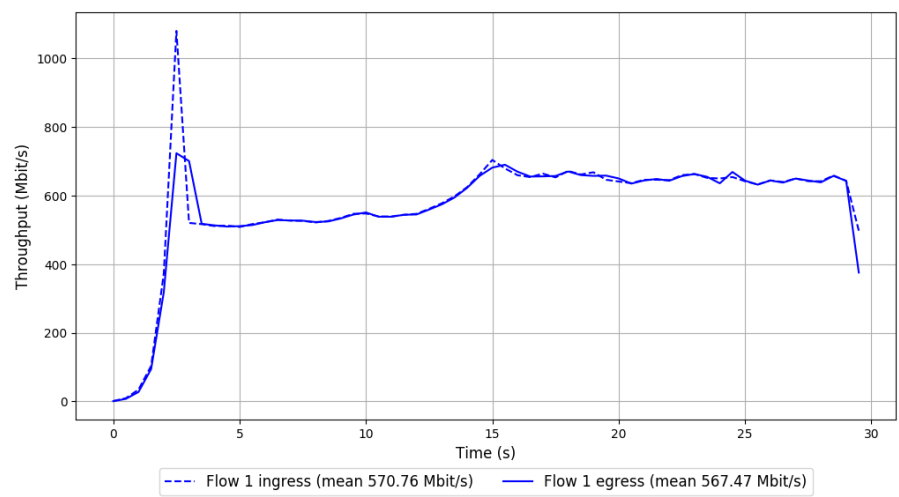
-- Flow 1:

Average throughput: 567.47 Mbit/s

95th percentile per-packet one-way delay: 86.579 ms

Loss rate: 1.15%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-12 21:01:25

End at: 2018-02-12 21:01:55

Below is generated by plot.py at 2018-02-13 00:45:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 603.51 Mbit/s

95th percentile per-packet one-way delay: 122.079 ms

Loss rate: 1.13%

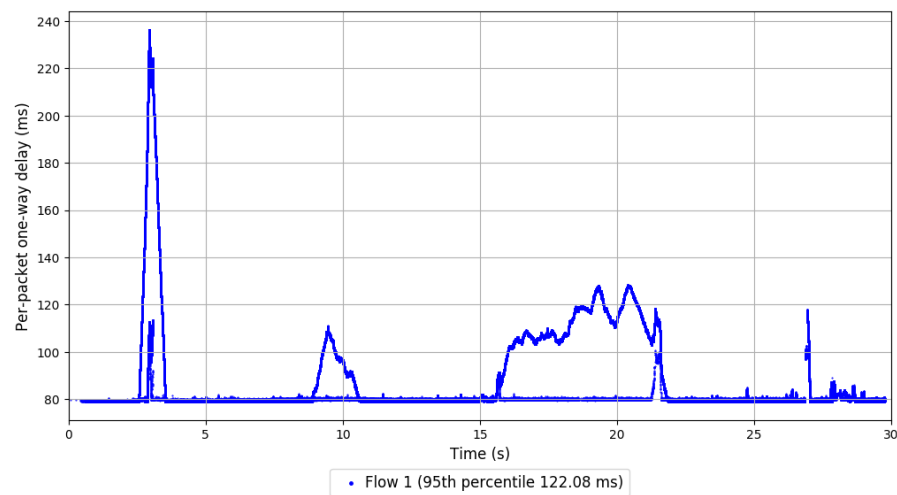
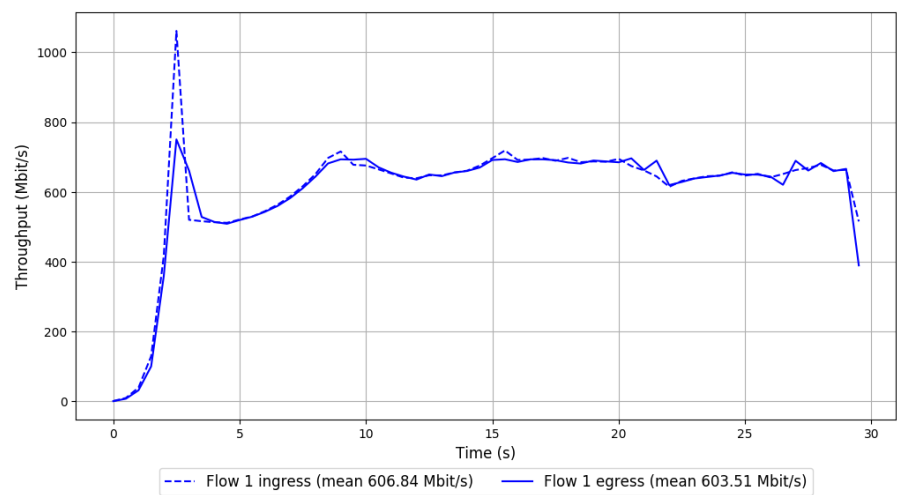
-- Flow 1:

Average throughput: 603.51 Mbit/s

95th percentile per-packet one-way delay: 122.079 ms

Loss rate: 1.13%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-12 21:16:54

End at: 2018-02-12 21:17:24

Below is generated by plot.py at 2018-02-13 00:45:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 596.05 Mbit/s

95th percentile per-packet one-way delay: 144.910 ms

Loss rate: 1.15%

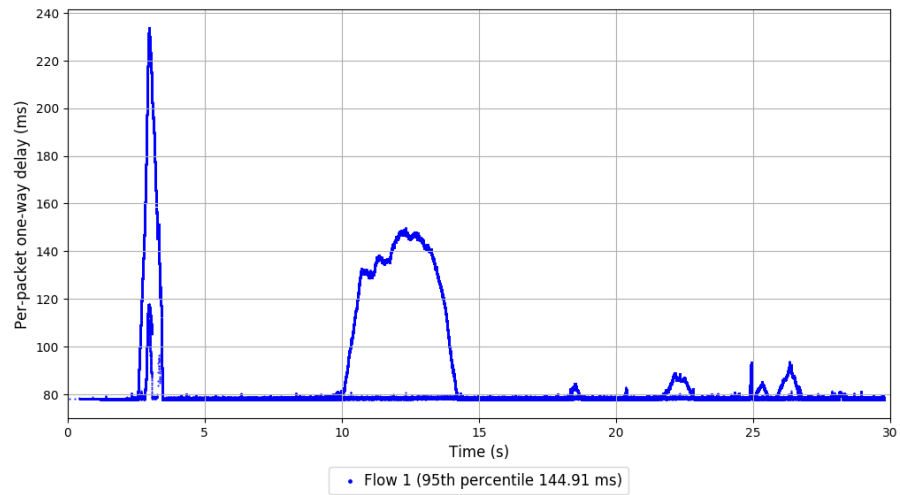
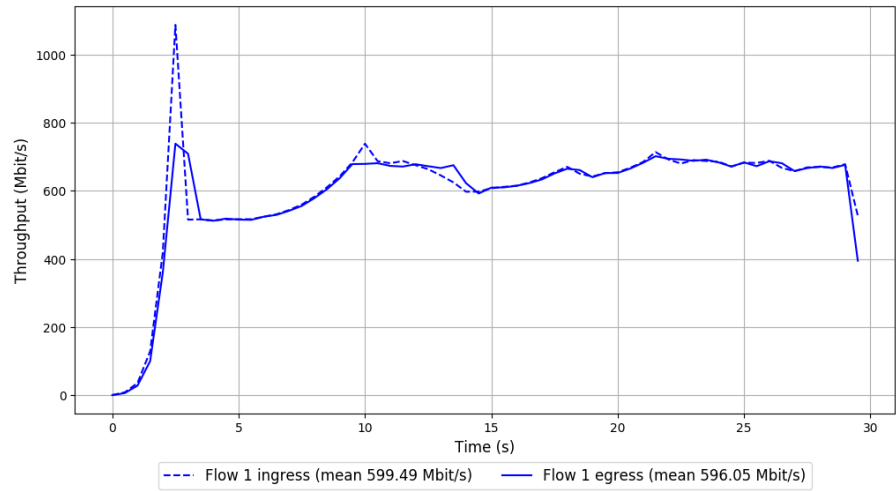
-- Flow 1:

Average throughput: 596.05 Mbit/s

95th percentile per-packet one-way delay: 144.910 ms

Loss rate: 1.15%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-12 21:32:19

End at: 2018-02-12 21:32:49

Below is generated by plot.py at 2018-02-13 00:54:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 587.93 Mbit/s

95th percentile per-packet one-way delay: 195.662 ms

Loss rate: 2.21%

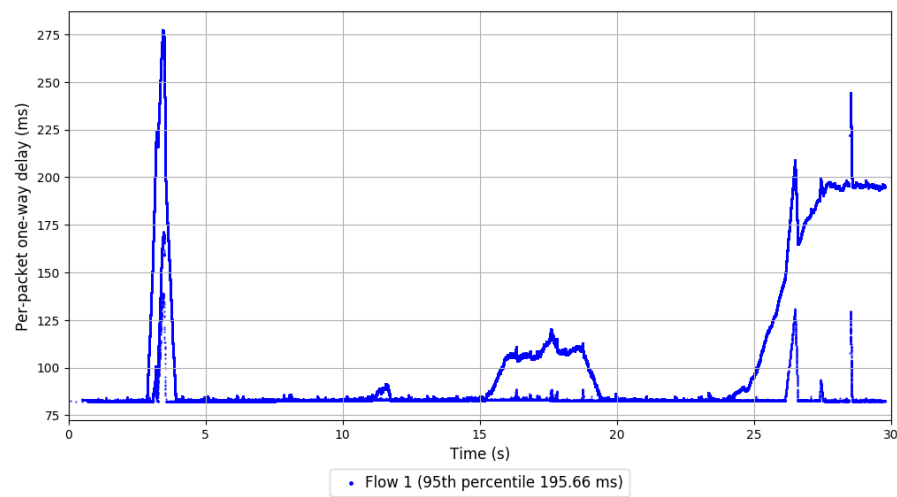
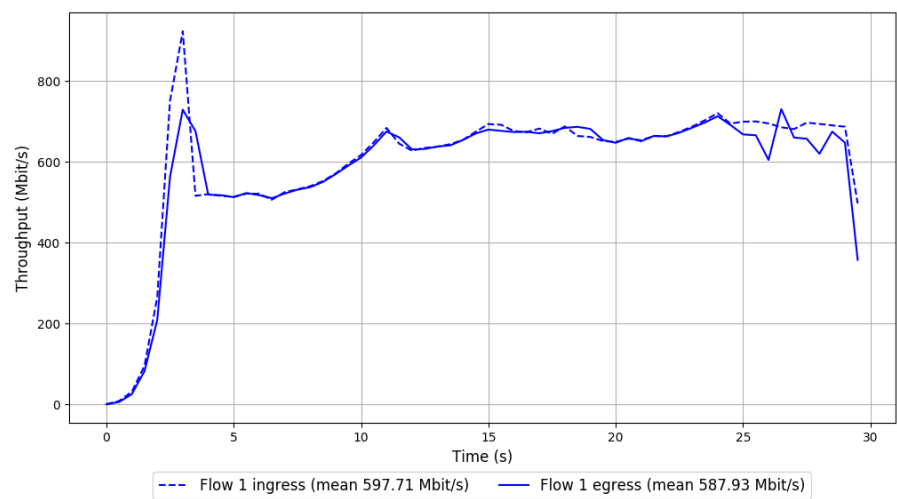
-- Flow 1:

Average throughput: 587.93 Mbit/s

95th percentile per-packet one-way delay: 195.662 ms

Loss rate: 2.21%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-12 21:47:23

End at: 2018-02-12 21:47:53

Below is generated by plot.py at 2018-02-13 00:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 600.88 Mbit/s

95th percentile per-packet one-way delay: 99.530 ms

Loss rate: 1.09%

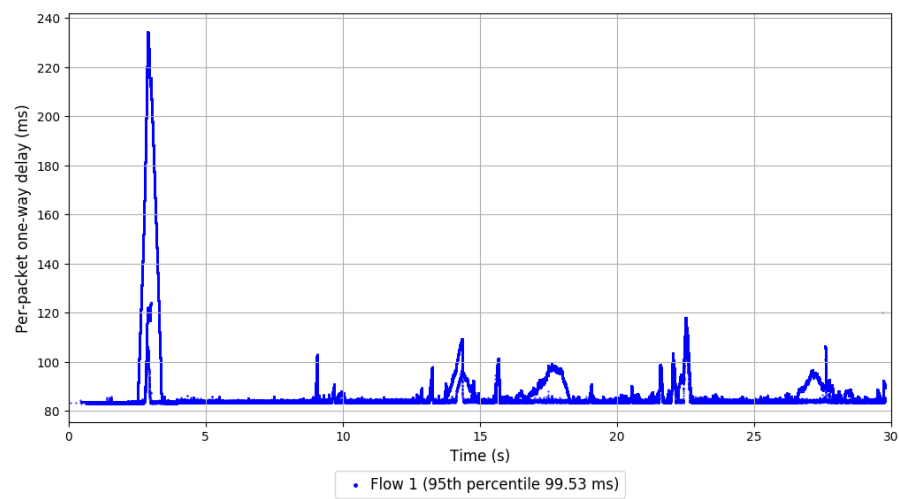
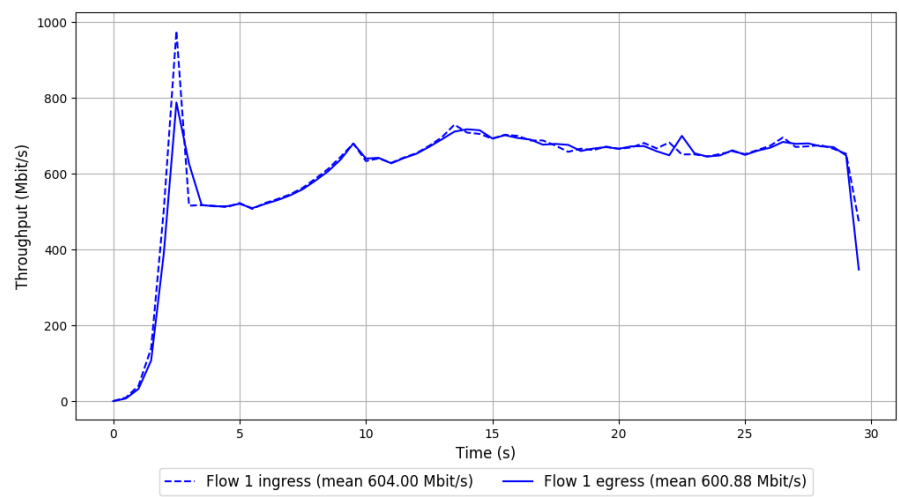
-- Flow 1:

Average throughput: 600.88 Mbit/s

95th percentile per-packet one-way delay: 99.530 ms

Loss rate: 1.09%

Run 10: Report of PCC — Data Link

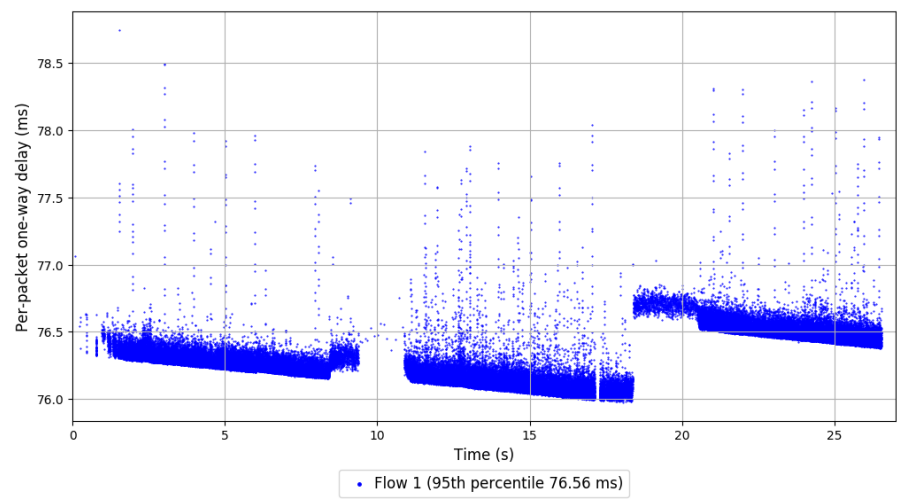
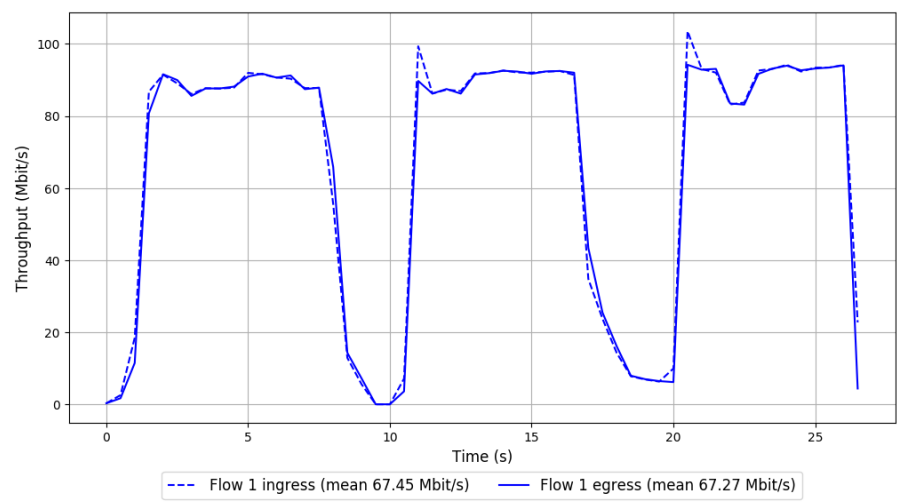


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-02-12 19:18:55
End at: 2018-02-12 19:19:25

# Below is generated by plot.py at 2018-02-13 00:54:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.27 Mbit/s
95th percentile per-packet one-way delay: 76.563 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 67.27 Mbit/s
95th percentile per-packet one-way delay: 76.563 ms
Loss rate: 0.91%
```

Run 1: Report of QUIC Cubic — Data Link

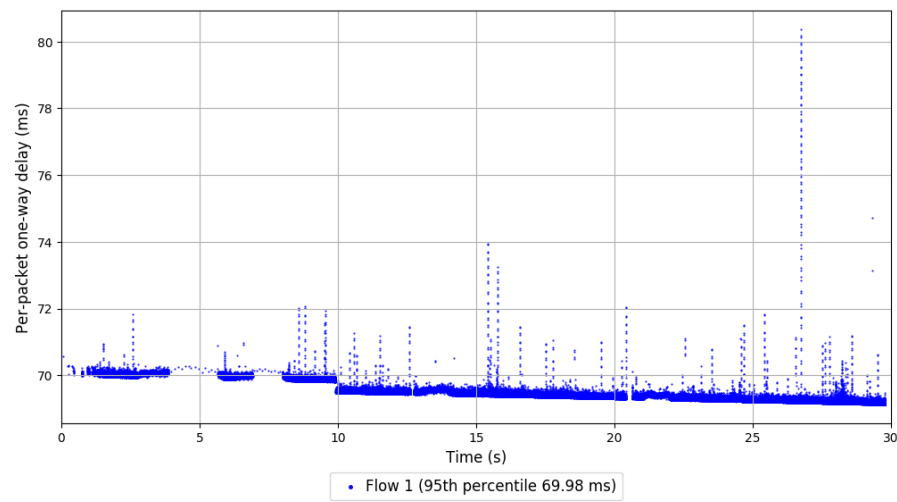
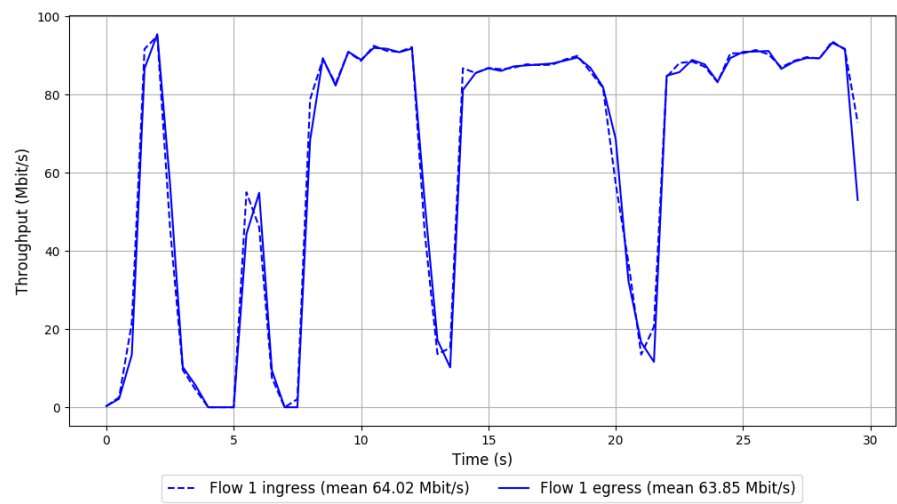


```
Run 2: Statistics of QUIC Cubic

Start at: 2018-02-12 19:34:17
End at: 2018-02-12 19:34:47

# Below is generated by plot.py at 2018-02-13 00:54:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.85 Mbit/s
95th percentile per-packet one-way delay: 69.981 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 63.85 Mbit/s
95th percentile per-packet one-way delay: 69.981 ms
Loss rate: 0.85%
```

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-12 19:49:28

End at: 2018-02-12 19:49:58

Below is generated by plot.py at 2018-02-13 00:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.60 Mbit/s

95th percentile per-packet one-way delay: 70.103 ms

Loss rate: 0.74%

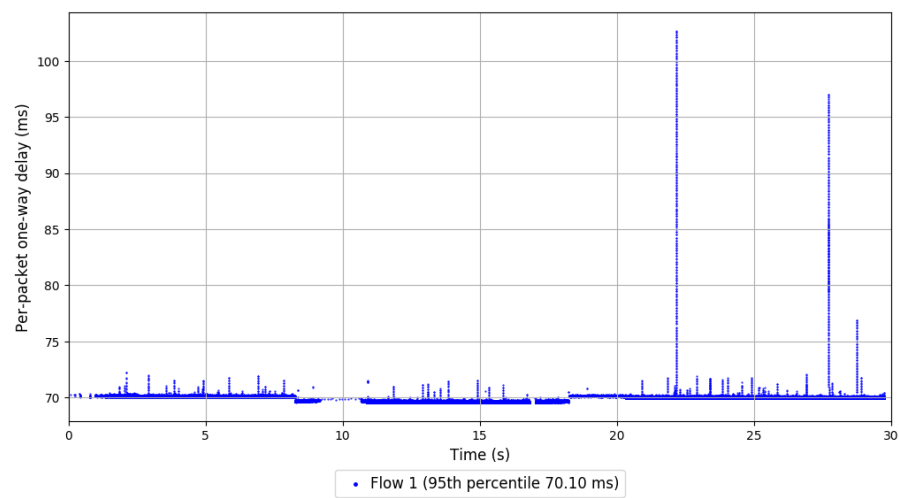
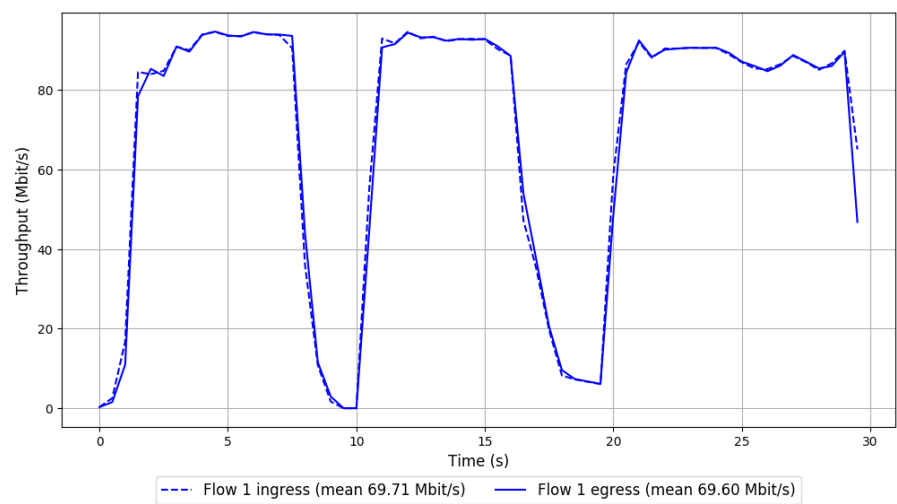
-- Flow 1:

Average throughput: 69.60 Mbit/s

95th percentile per-packet one-way delay: 70.103 ms

Loss rate: 0.74%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-12 20:04:47

End at: 2018-02-12 20:05:17

Below is generated by plot.py at 2018-02-13 00:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.72 Mbit/s

95th percentile per-packet one-way delay: 61.436 ms

Loss rate: 0.82%

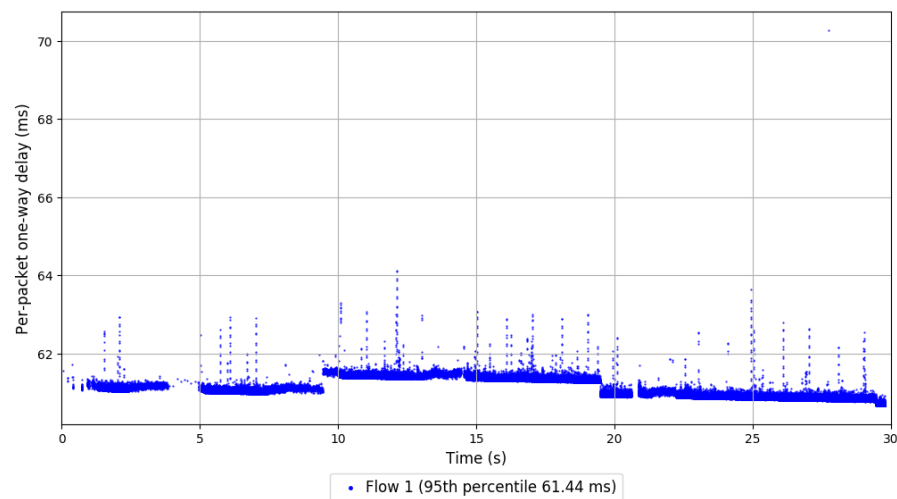
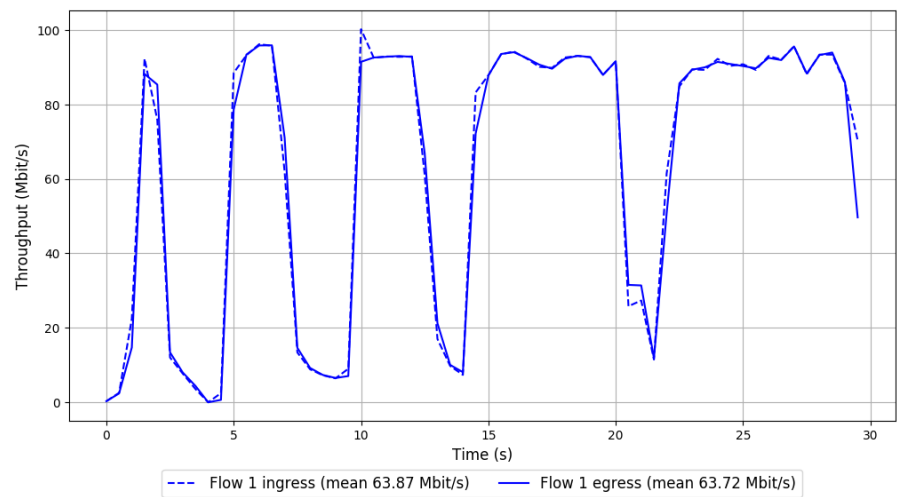
-- Flow 1:

Average throughput: 63.72 Mbit/s

95th percentile per-packet one-way delay: 61.436 ms

Loss rate: 0.82%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-12 20:20:15

End at: 2018-02-12 20:20:45

Below is generated by plot.py at 2018-02-13 00:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.11 Mbit/s

95th percentile per-packet one-way delay: 69.637 ms

Loss rate: 0.75%

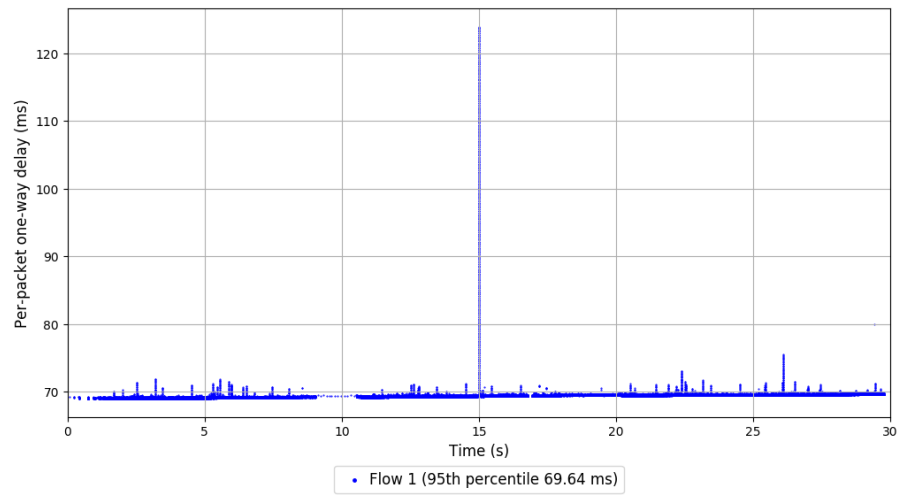
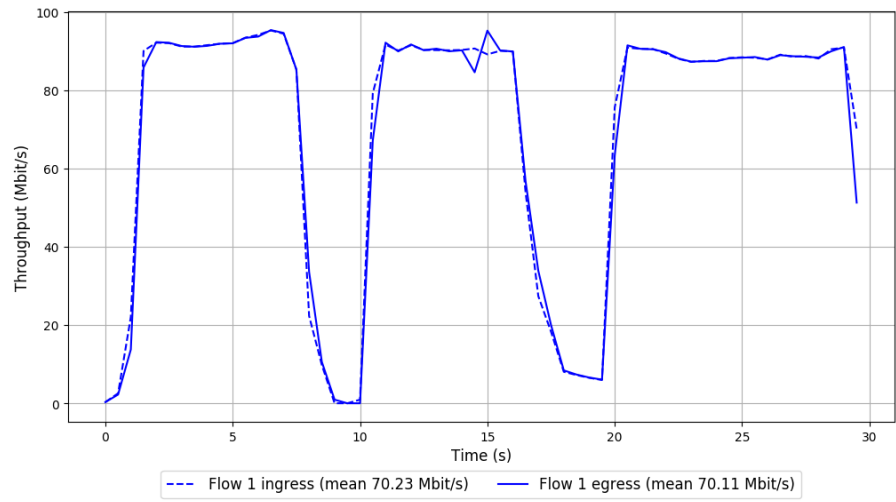
-- Flow 1:

Average throughput: 70.11 Mbit/s

95th percentile per-packet one-way delay: 69.637 ms

Loss rate: 0.75%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-12 20:35:39

End at: 2018-02-12 20:36:09

Below is generated by plot.py at 2018-02-13 00:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.72 Mbit/s

95th percentile per-packet one-way delay: 74.308 ms

Loss rate: 0.75%

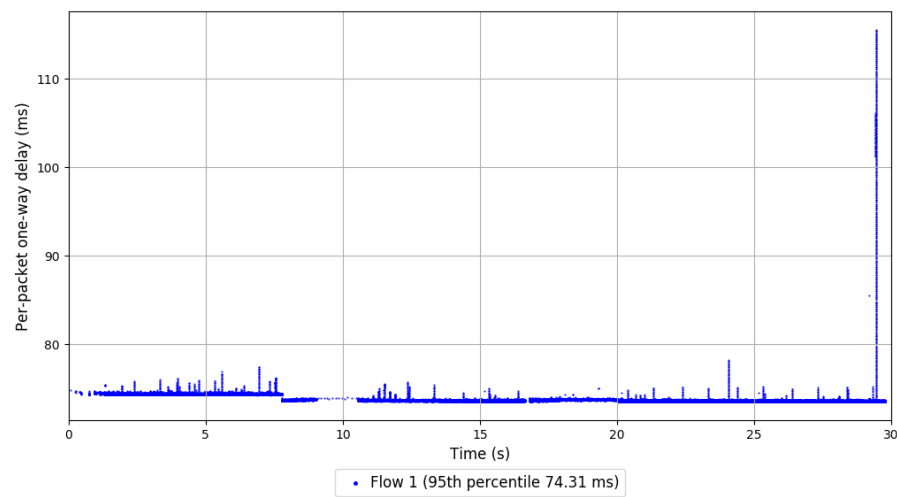
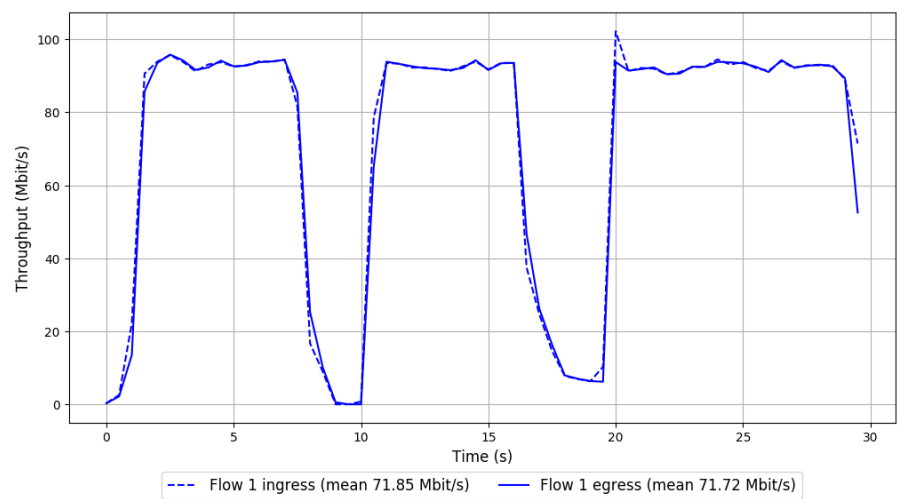
-- Flow 1:

Average throughput: 71.72 Mbit/s

95th percentile per-packet one-way delay: 74.308 ms

Loss rate: 0.75%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-12 20:50:58

End at: 2018-02-12 20:51:28

Below is generated by plot.py at 2018-02-13 00:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.47 Mbit/s

95th percentile per-packet one-way delay: 75.410 ms

Loss rate: 0.75%

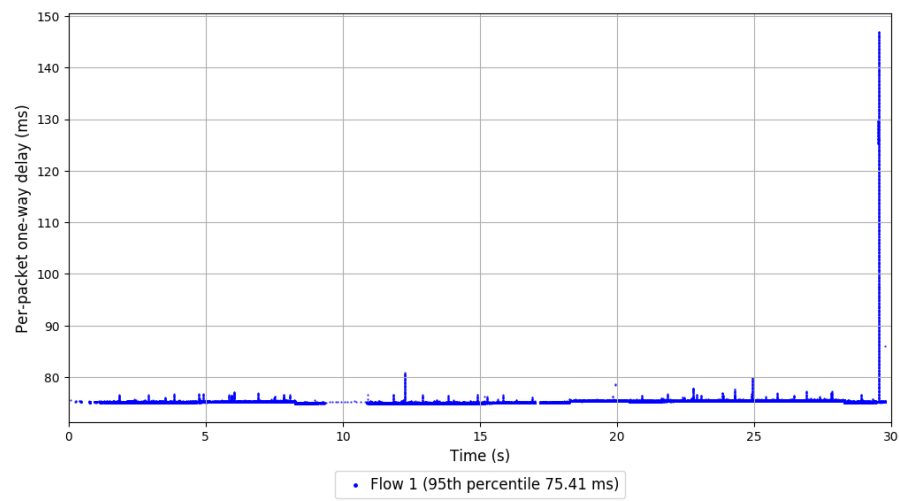
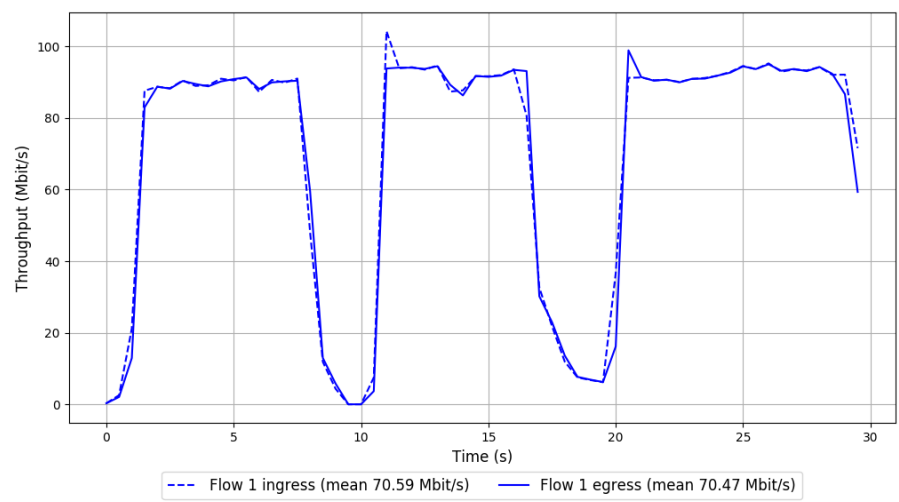
-- Flow 1:

Average throughput: 70.47 Mbit/s

95th percentile per-packet one-way delay: 75.410 ms

Loss rate: 0.75%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-12 21:06:27

End at: 2018-02-12 21:06:57

Below is generated by plot.py at 2018-02-13 00:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.96 Mbit/s

95th percentile per-packet one-way delay: 79.236 ms

Loss rate: 0.74%

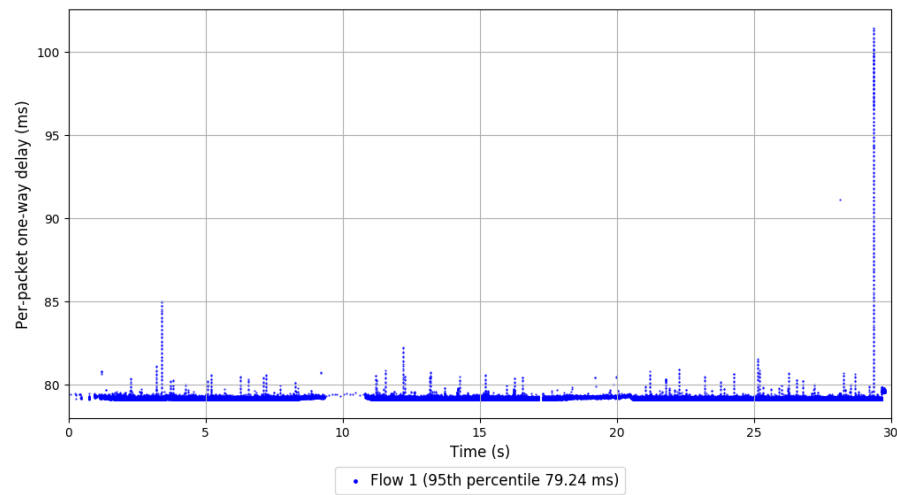
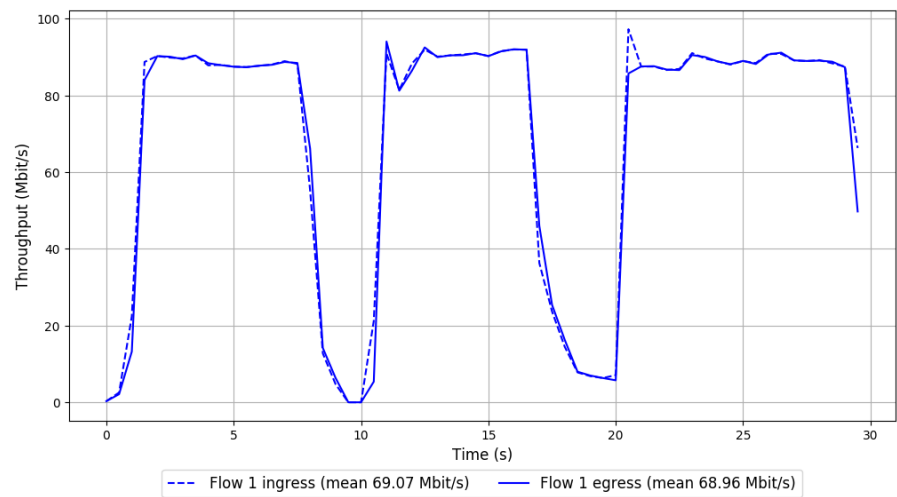
-- Flow 1:

Average throughput: 68.96 Mbit/s

95th percentile per-packet one-way delay: 79.236 ms

Loss rate: 0.74%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-12 21:21:56

End at: 2018-02-12 21:22:26

Below is generated by plot.py at 2018-02-13 00:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.90 Mbit/s

95th percentile per-packet one-way delay: 77.662 ms

Loss rate: 0.75%

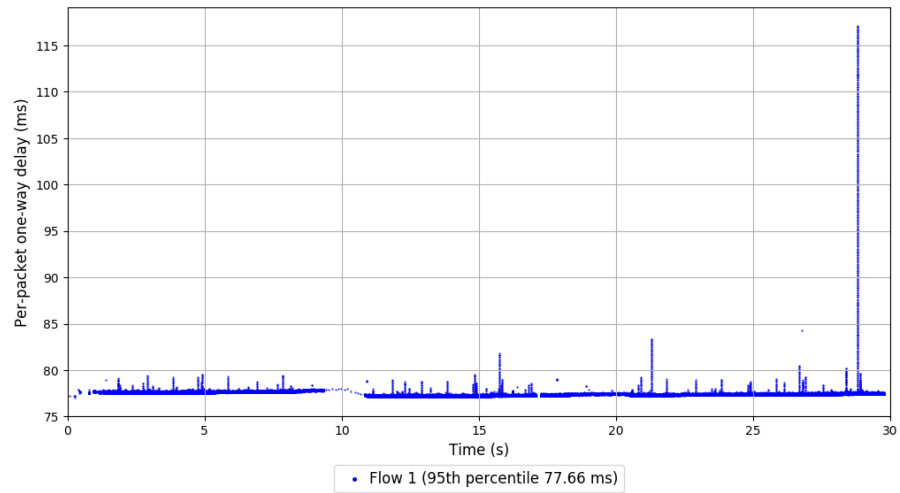
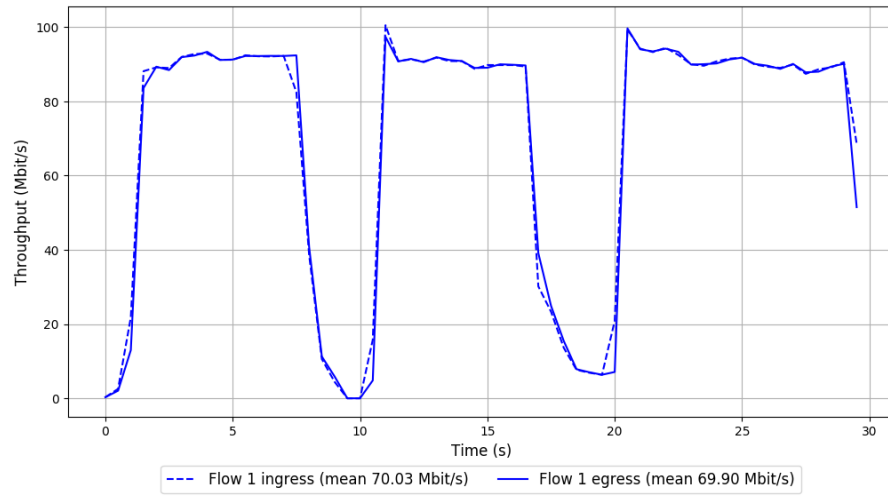
-- Flow 1:

Average throughput: 69.90 Mbit/s

95th percentile per-packet one-way delay: 77.662 ms

Loss rate: 0.75%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-02-12 21:37:12

End at: 2018-02-12 21:37:42

Below is generated by plot.py at 2018-02-13 00:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.01 Mbit/s

95th percentile per-packet one-way delay: 83.417 ms

Loss rate: 0.84%

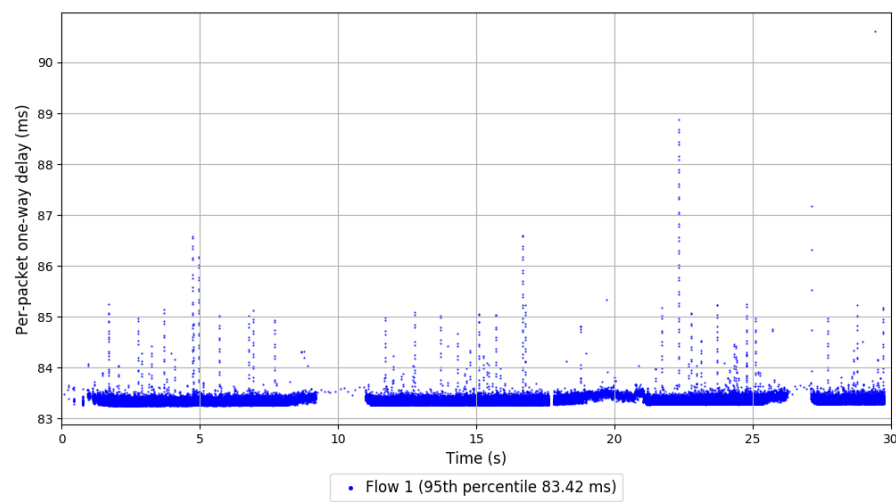
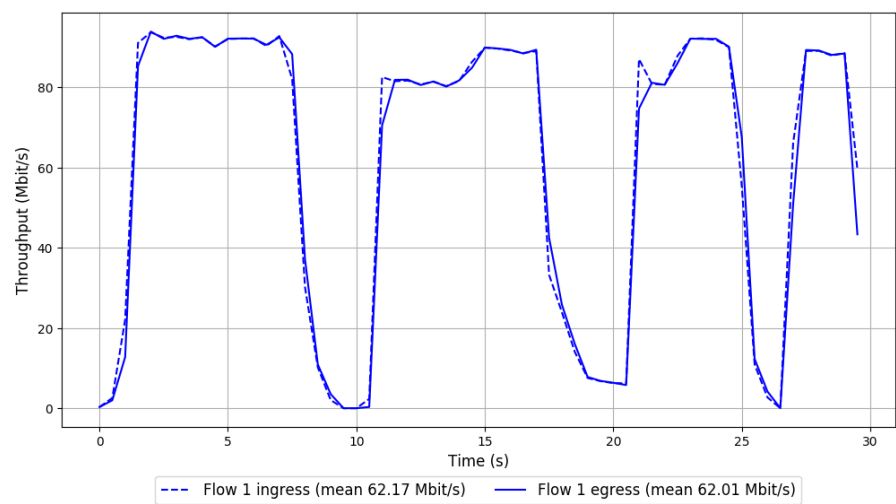
-- Flow 1:

Average throughput: 62.01 Mbit/s

95th percentile per-packet one-way delay: 83.417 ms

Loss rate: 0.84%

Run 10: Report of QUIC Cubic — Data Link

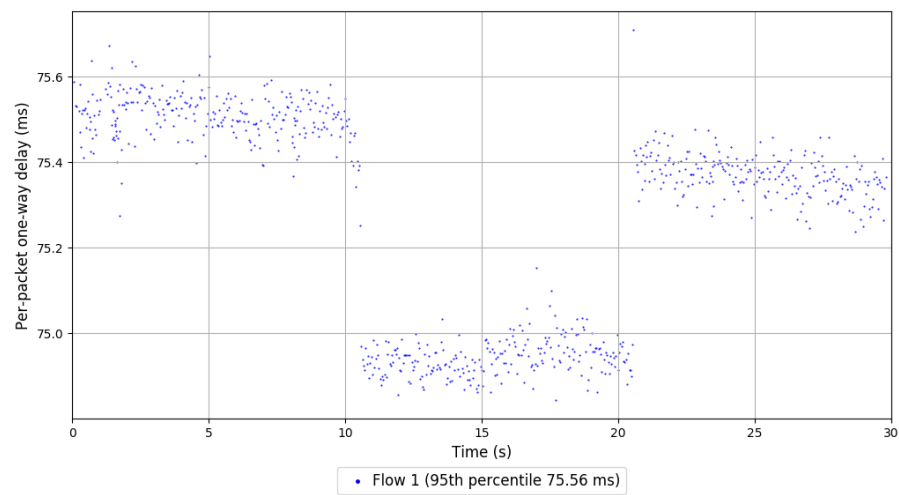
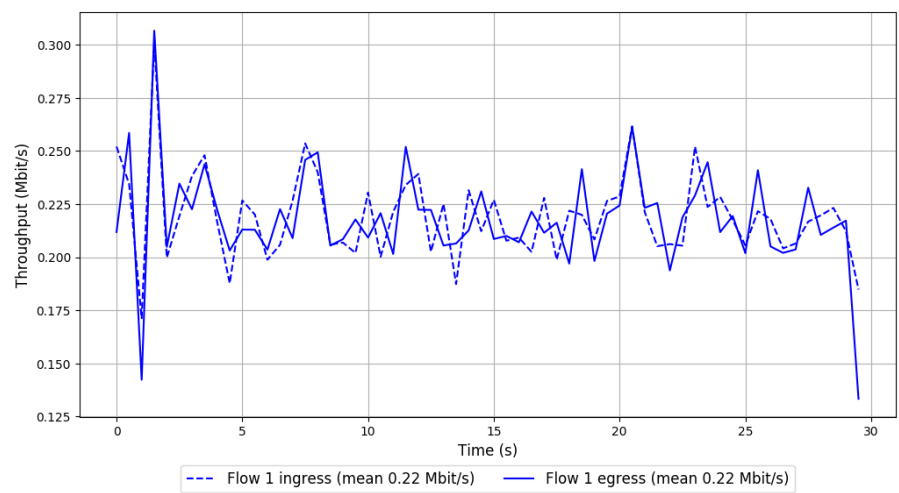


```
Run 1: Statistics of SCReAM

Start at: 2018-02-12 19:27:56
End at: 2018-02-12 19:28:26

# Below is generated by plot.py at 2018-02-13 00:54:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 75.562 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 75.562 ms
Loss rate: 0.64%
```

Run 1: Report of SReAM — Data Link

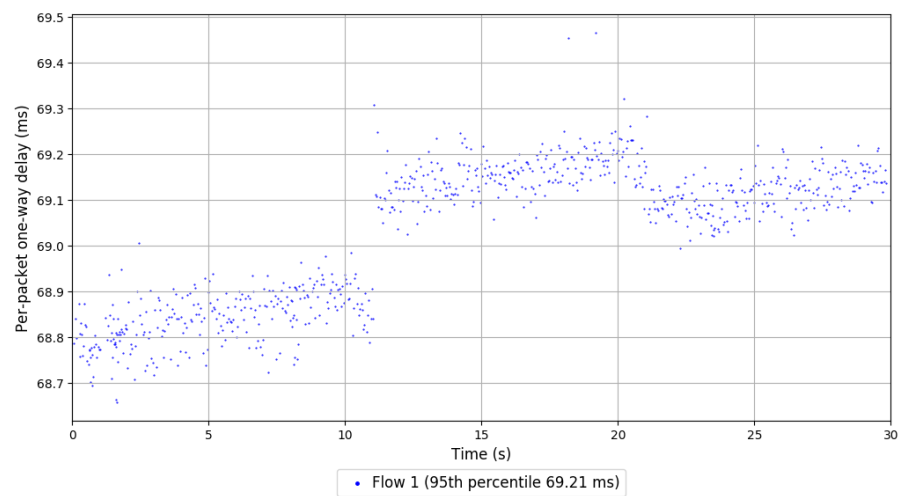
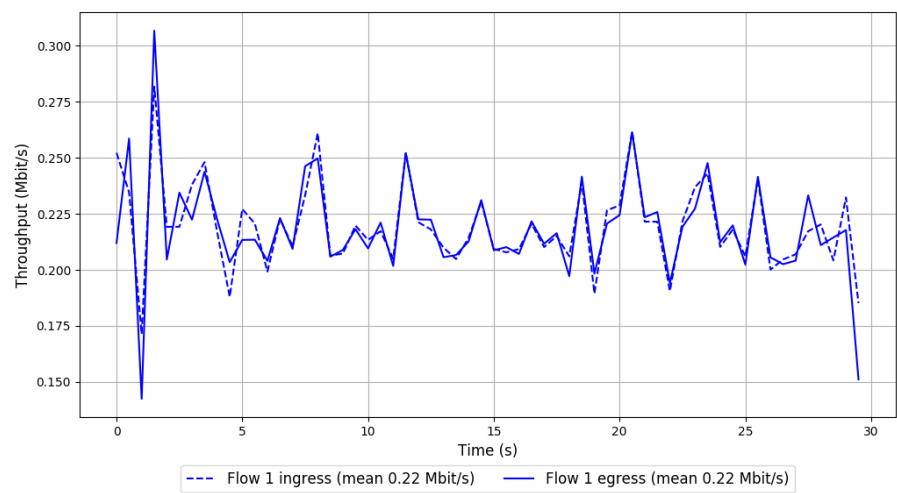


```
Run 2: Statistics of SCReAM

Start at: 2018-02-12 19:43:16
End at: 2018-02-12 19:43:46

# Below is generated by plot.py at 2018-02-13 00:54:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 69.211 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 69.211 ms
Loss rate: 0.51%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-02-12 19:58:35

End at: 2018-02-12 19:59:05

Below is generated by plot.py at 2018-02-13 00:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 66.052 ms

Loss rate: 0.51%

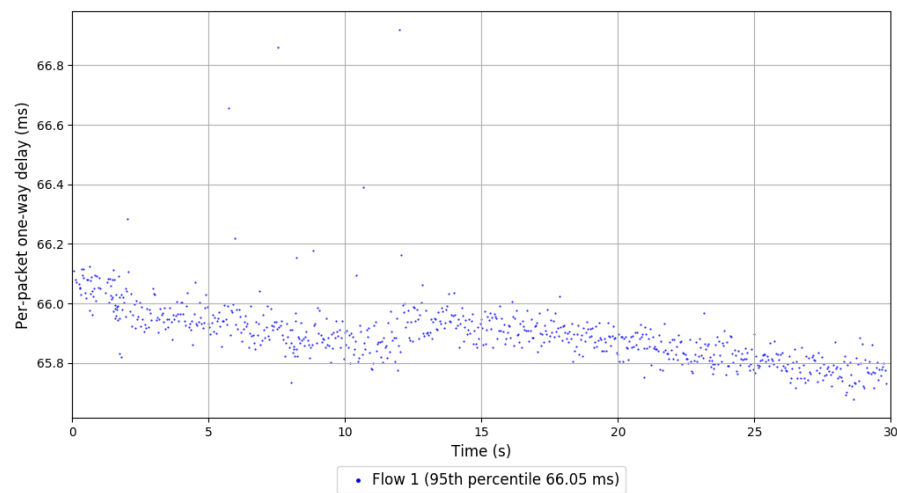
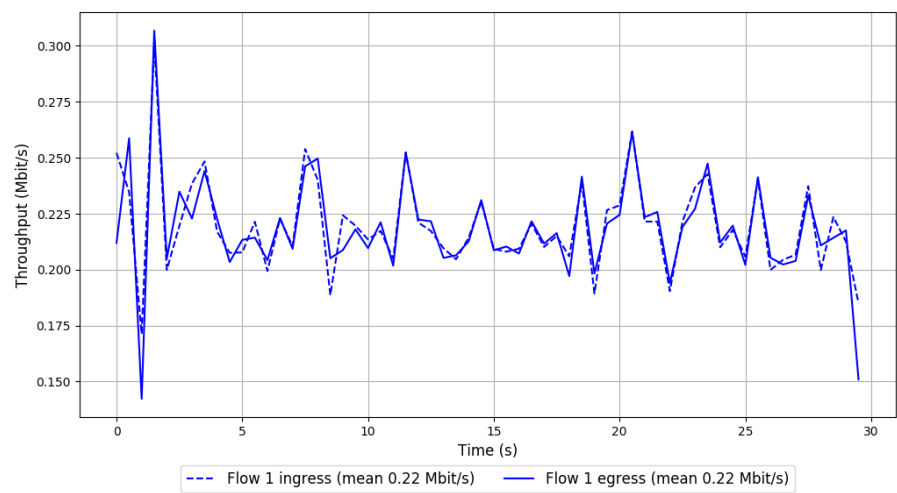
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 66.052 ms

Loss rate: 0.51%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-02-12 20:13:50

End at: 2018-02-12 20:14:20

Below is generated by plot.py at 2018-02-13 00:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 57.535 ms

Loss rate: 0.51%

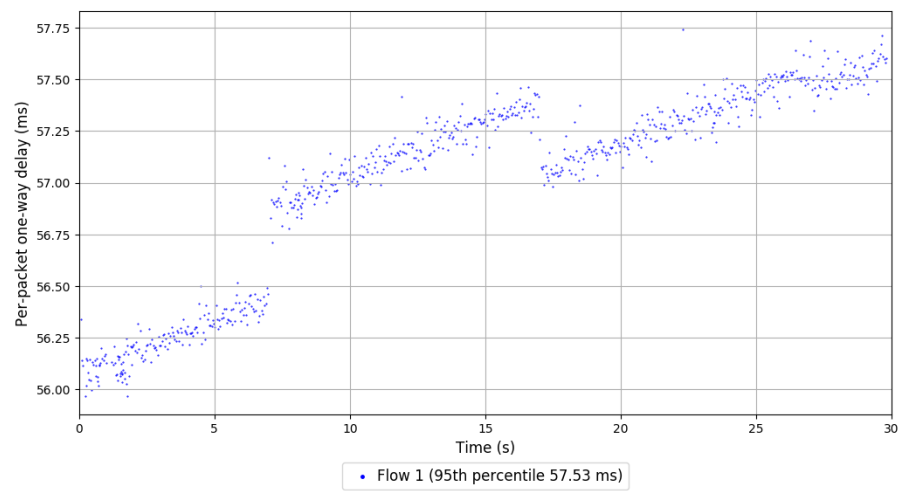
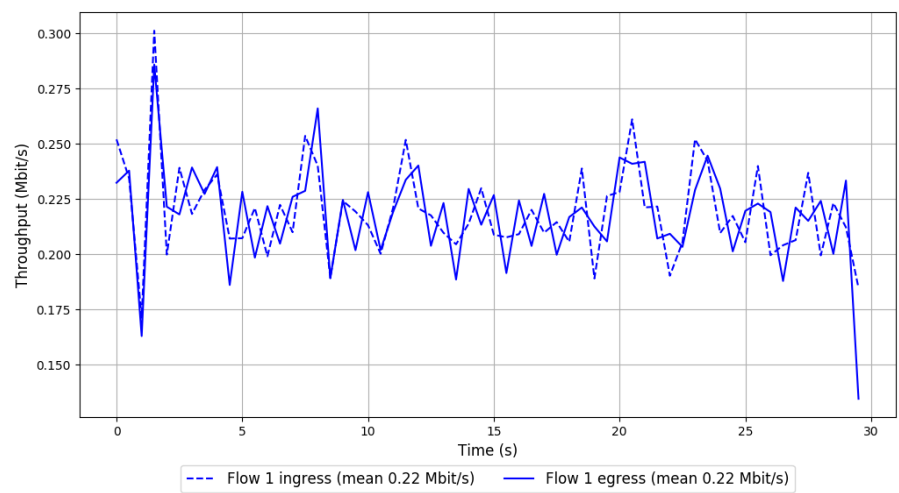
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 57.535 ms

Loss rate: 0.51%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-12 20:29:22

End at: 2018-02-12 20:29:52

Below is generated by plot.py at 2018-02-13 00:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 74.692 ms

Loss rate: 0.51%

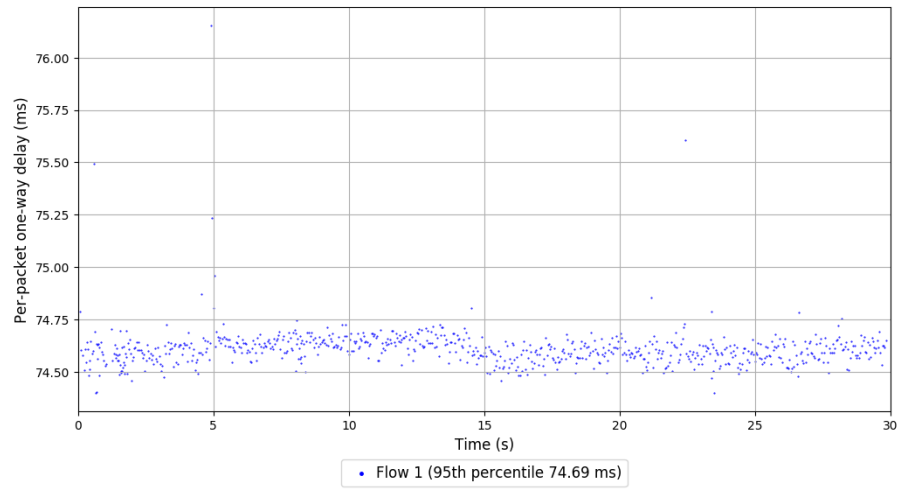
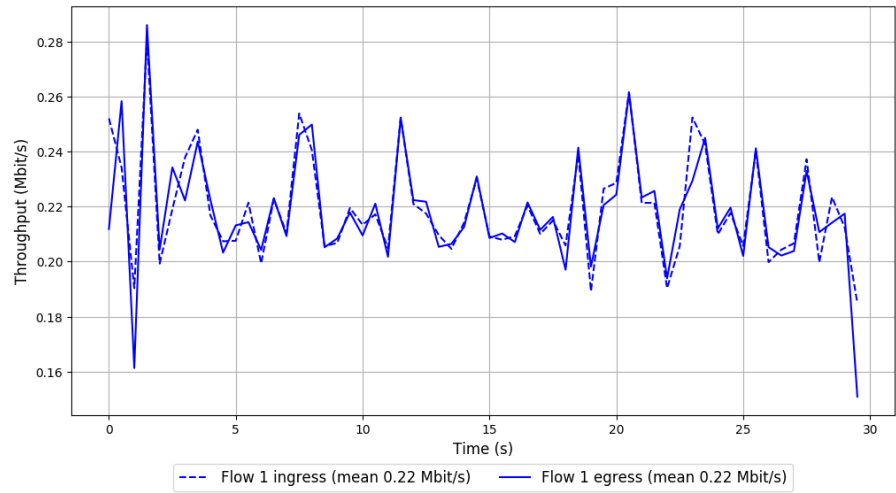
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 74.692 ms

Loss rate: 0.51%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-02-12 20:44:50

End at: 2018-02-12 20:45:20

Below is generated by plot.py at 2018-02-13 00:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 71.601 ms

Loss rate: 0.51%

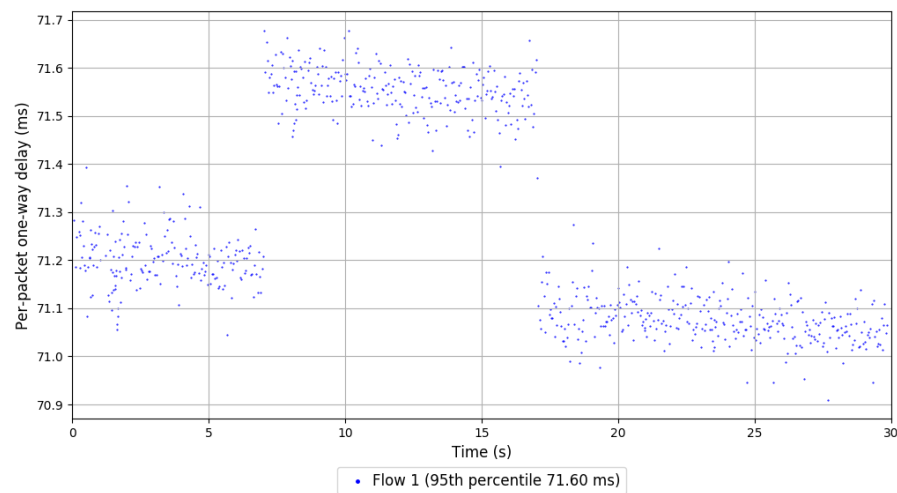
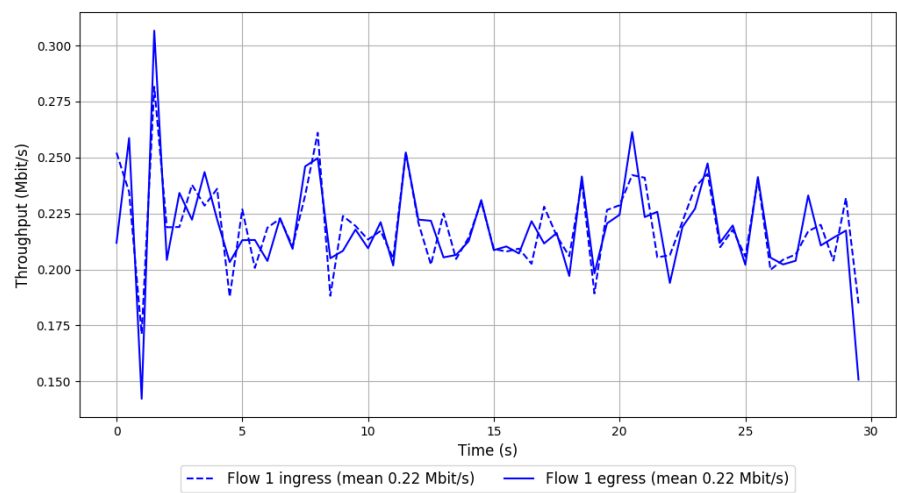
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 71.601 ms

Loss rate: 0.51%

Run 6: Report of SCRaM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-02-12 21:00:06

End at: 2018-02-12 21:00:36

Below is generated by plot.py at 2018-02-13 00:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.598 ms

Loss rate: 0.52%

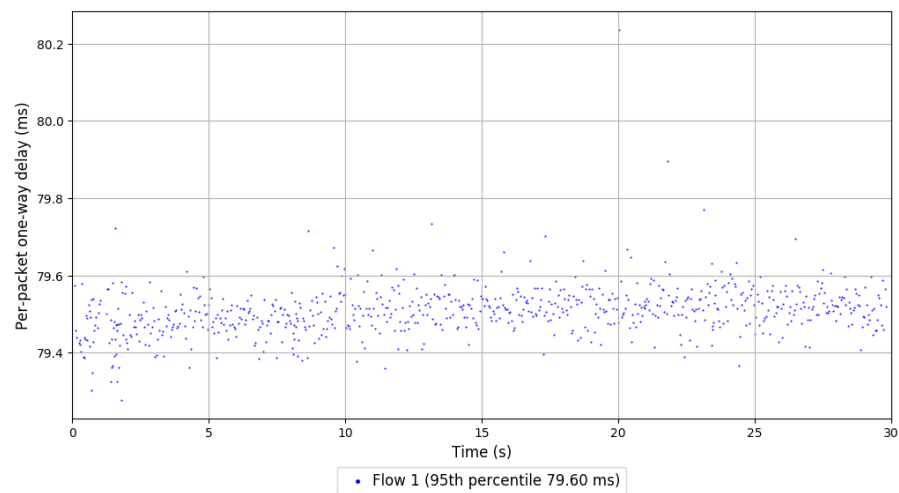
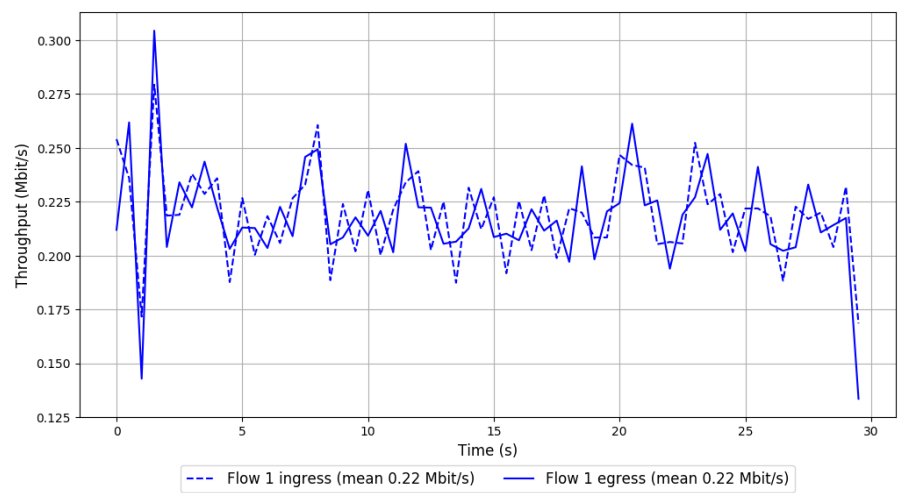
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.598 ms

Loss rate: 0.52%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-12 21:15:35

End at: 2018-02-12 21:16:06

Below is generated by plot.py at 2018-02-13 00:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 78.475 ms

Loss rate: 0.51%

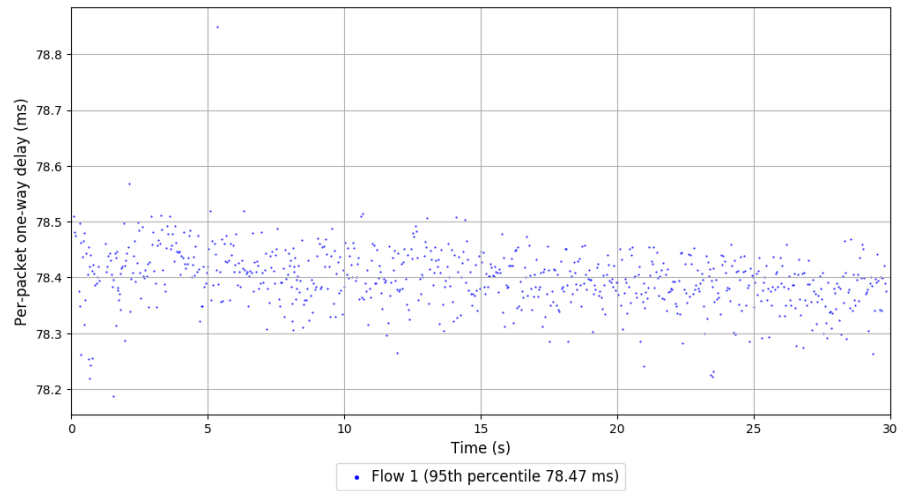
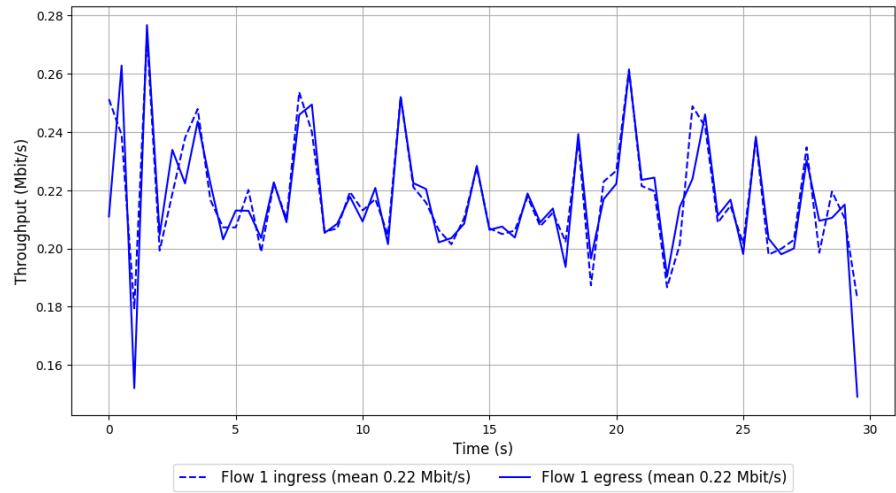
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 78.475 ms

Loss rate: 0.51%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-02-12 21:31:01

End at: 2018-02-12 21:31:31

Below is generated by plot.py at 2018-02-13 00:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 82.931 ms

Loss rate: 0.51%

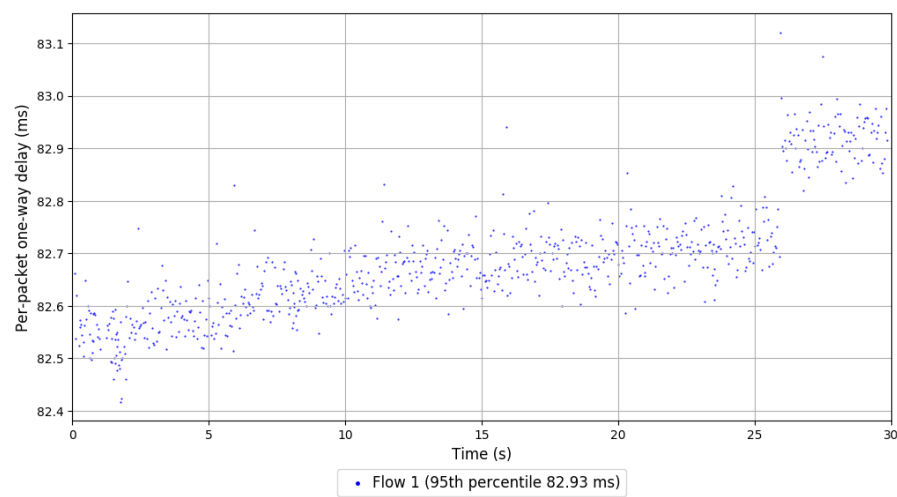
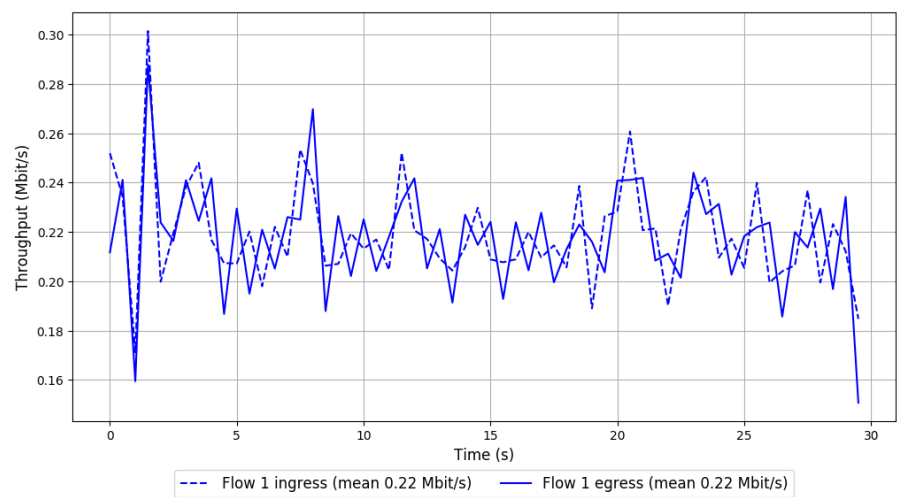
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 82.931 ms

Loss rate: 0.51%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-12 21:46:04

End at: 2018-02-12 21:46:34

Below is generated by plot.py at 2018-02-13 00:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.563 ms

Loss rate: 0.51%

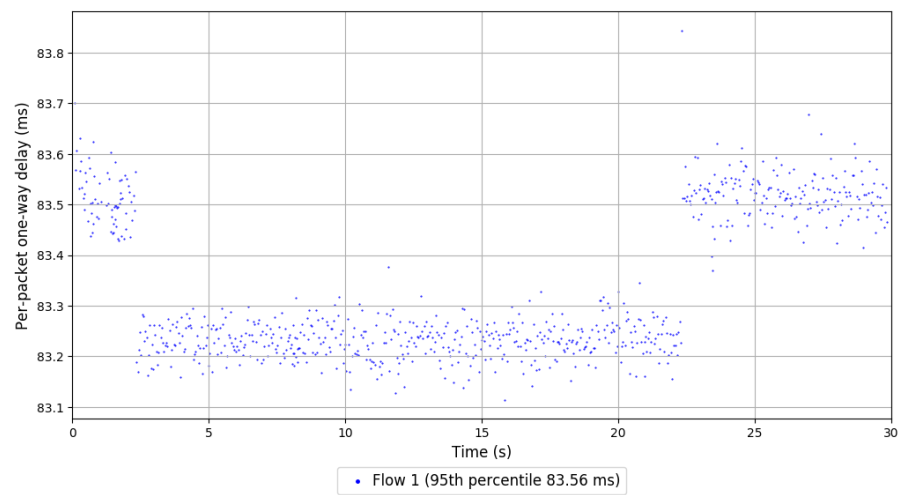
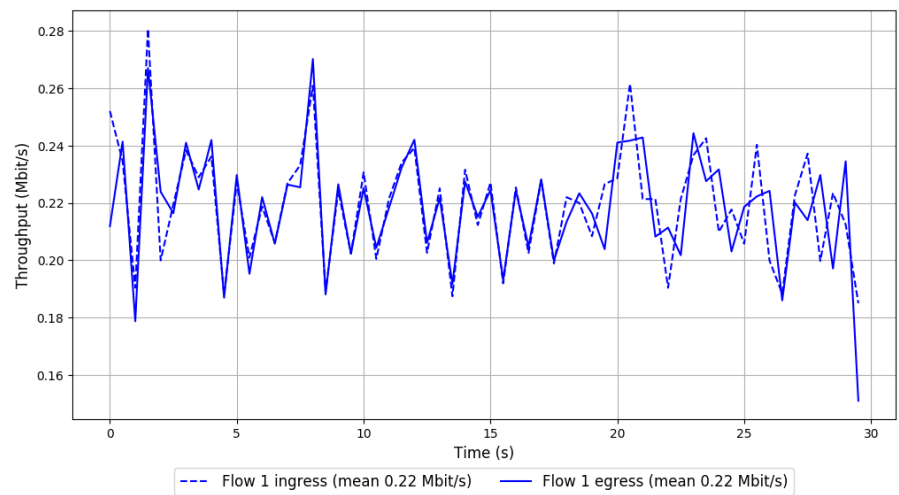
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.563 ms

Loss rate: 0.51%

Run 10: Report of SCRaM — Data Link

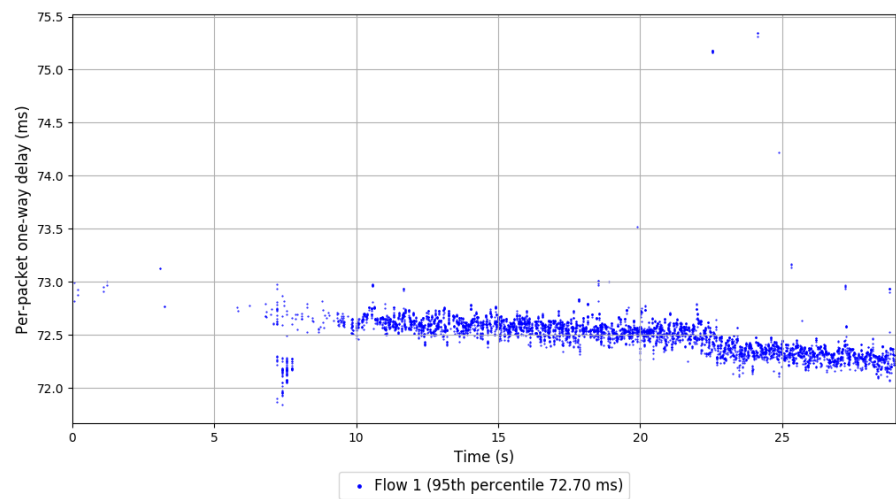
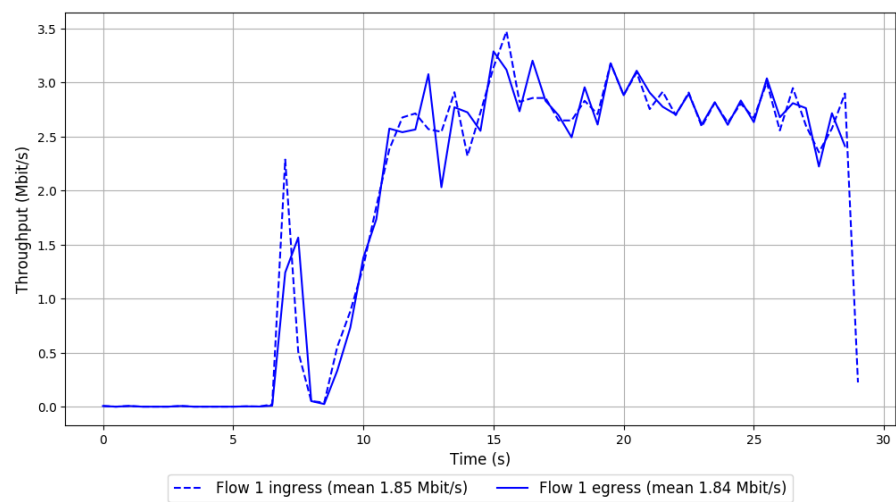


```
Run 1: Statistics of WebRTC media

Start at: 2018-02-12 19:31:53
End at: 2018-02-12 19:32:23

# Below is generated by plot.py at 2018-02-13 00:54:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.84 Mbit/s
95th percentile per-packet one-way delay: 72.696 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 1.84 Mbit/s
95th percentile per-packet one-way delay: 72.696 ms
Loss rate: 0.91%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-12 19:47:09

End at: 2018-02-12 19:47:39

Below is generated by plot.py at 2018-02-13 00:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 70.964 ms

Loss rate: 0.77%

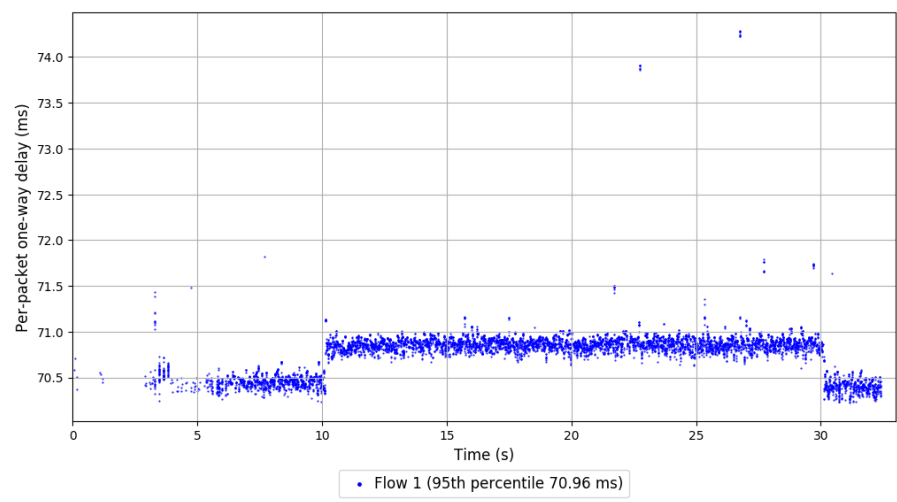
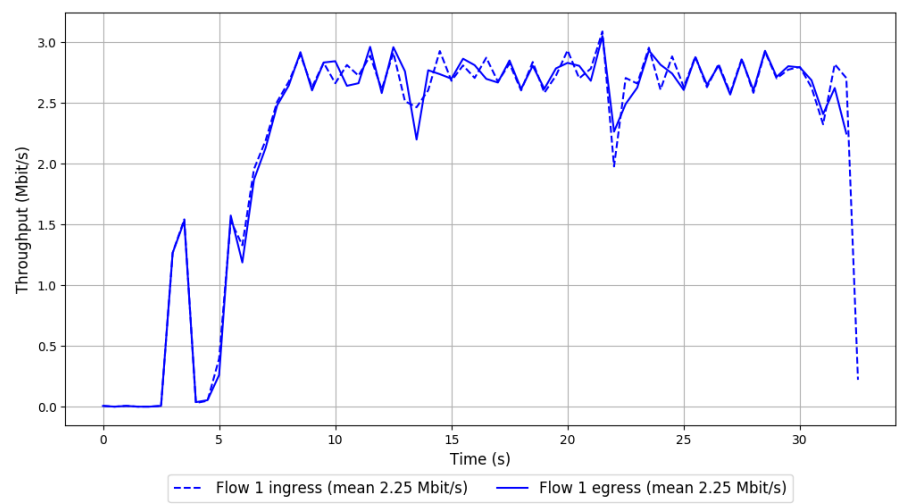
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 70.964 ms

Loss rate: 0.77%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-12 20:02:29

End at: 2018-02-12 20:02:59

Below is generated by plot.py at 2018-02-13 00:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 63.401 ms

Loss rate: 0.62%

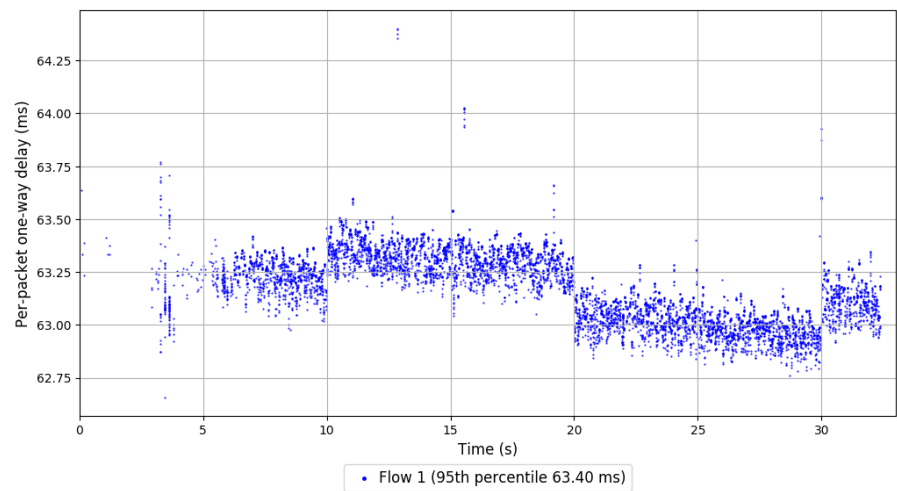
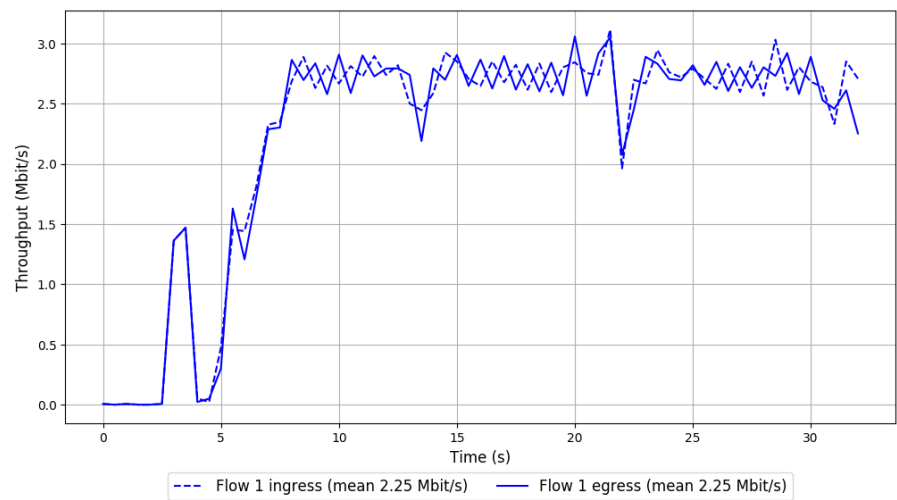
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 63.401 ms

Loss rate: 0.62%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-12 20:17:46

End at: 2018-02-12 20:18:16

Below is generated by plot.py at 2018-02-13 00:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 66.594 ms

Loss rate: 0.61%

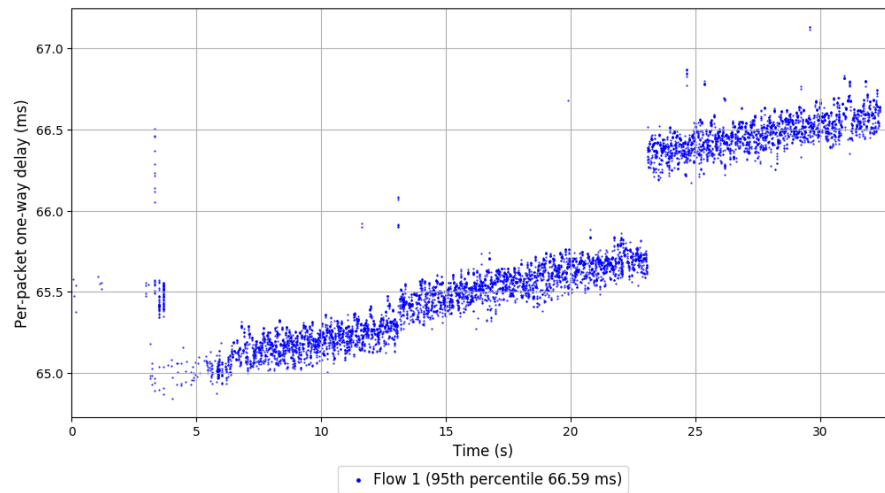
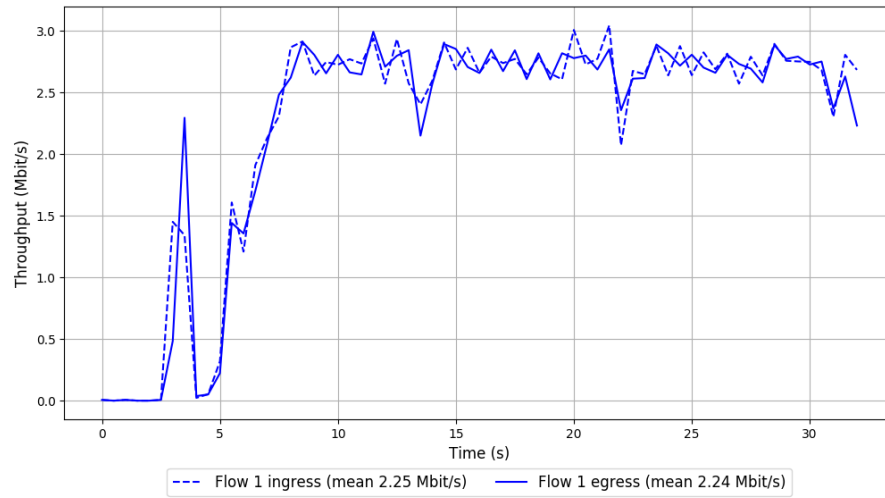
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 66.594 ms

Loss rate: 0.61%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-12 20:33:18

End at: 2018-02-12 20:33:48

Below is generated by plot.py at 2018-02-13 00:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 74.638 ms

Loss rate: 0.77%

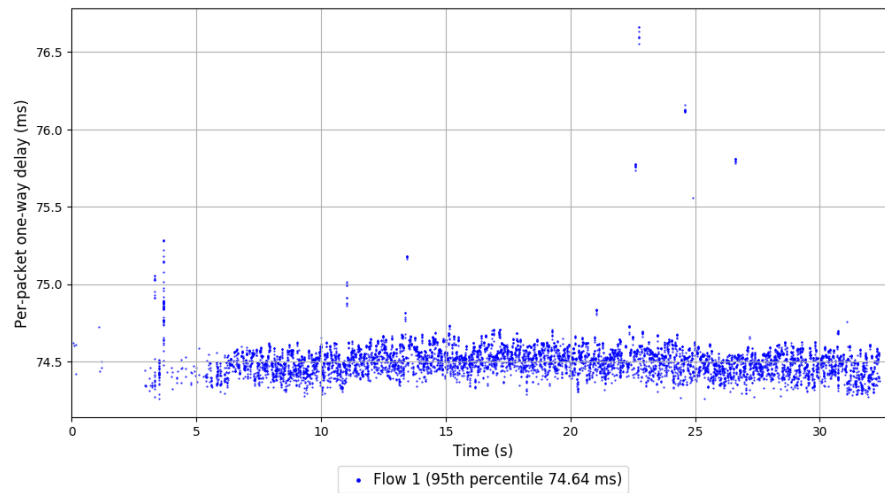
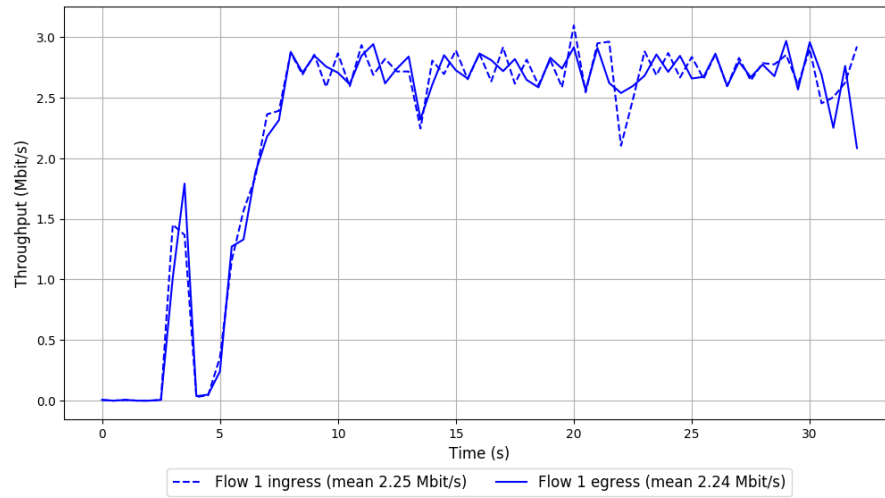
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 74.638 ms

Loss rate: 0.77%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-12 20:48:41

End at: 2018-02-12 20:49:11

Below is generated by plot.py at 2018-02-13 00:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 73.111 ms

Loss rate: 0.61%

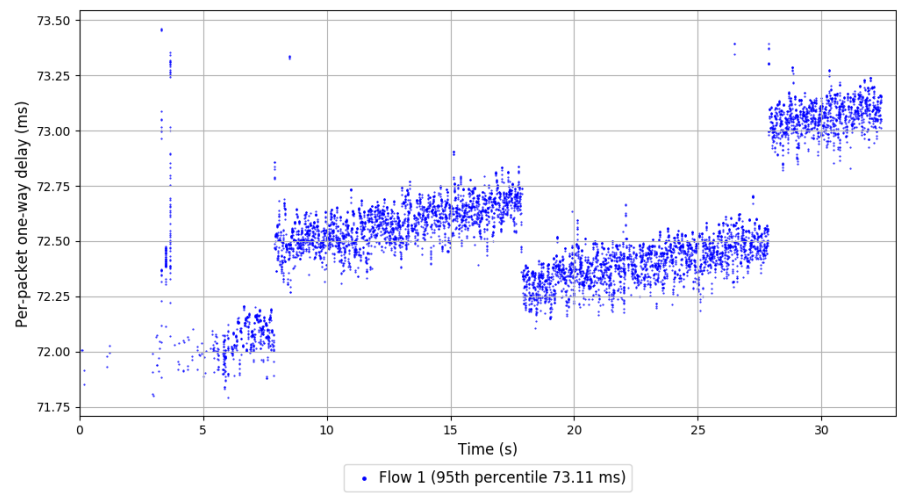
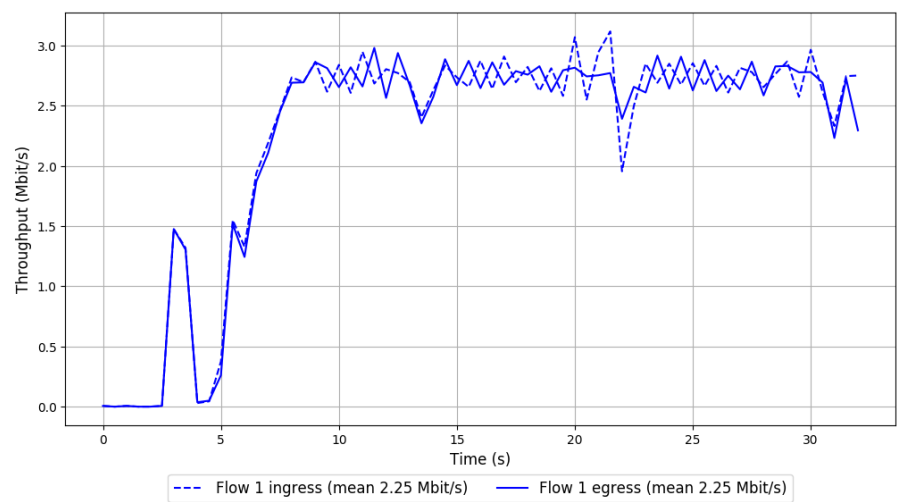
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 73.111 ms

Loss rate: 0.61%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-12 21:03:58

End at: 2018-02-12 21:04:28

Below is generated by plot.py at 2018-02-13 00:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 79.776 ms

Loss rate: 0.62%

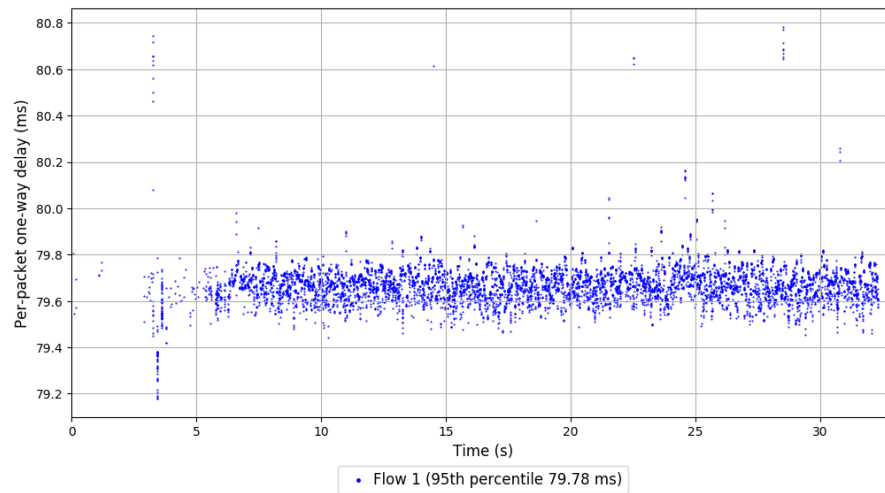
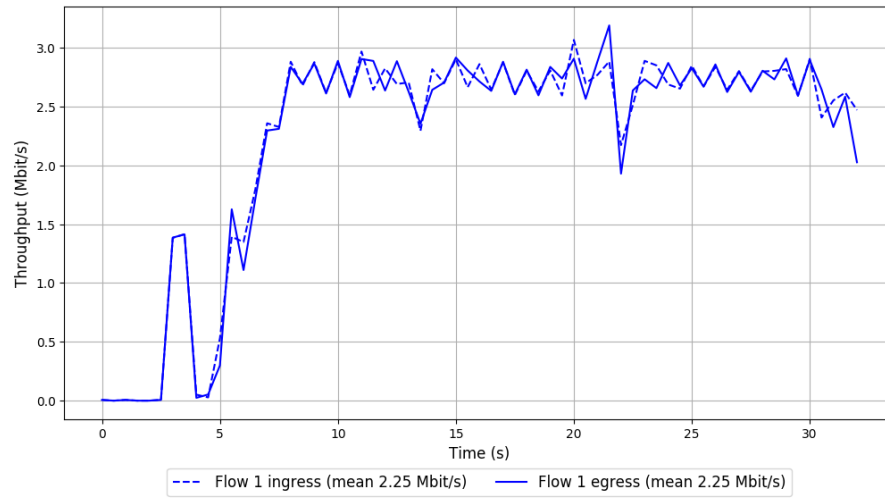
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 79.776 ms

Loss rate: 0.62%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-12 21:19:28

End at: 2018-02-12 21:19:58

Below is generated by plot.py at 2018-02-13 00:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 77.719 ms

Loss rate: 0.78%

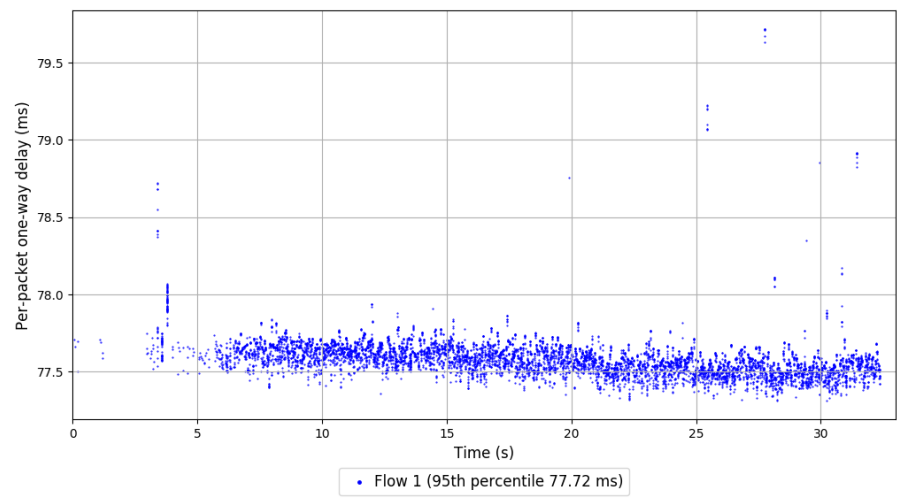
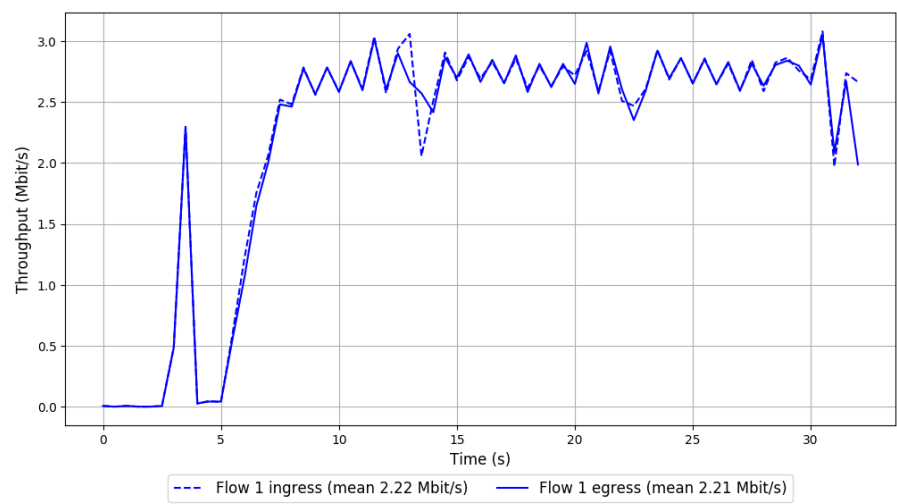
-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 77.719 ms

Loss rate: 0.78%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-12 21:34:55

End at: 2018-02-12 21:35:25

Below is generated by plot.py at 2018-02-13 00:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 83.831 ms

Loss rate: 0.77%

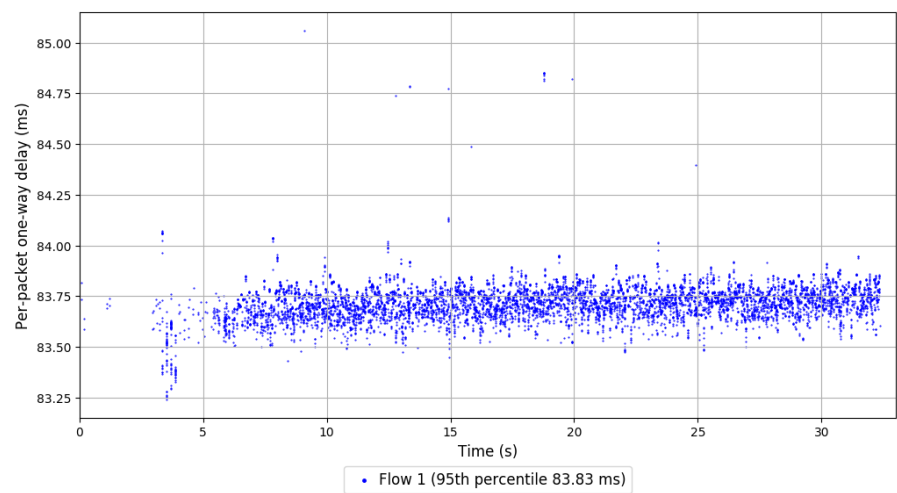
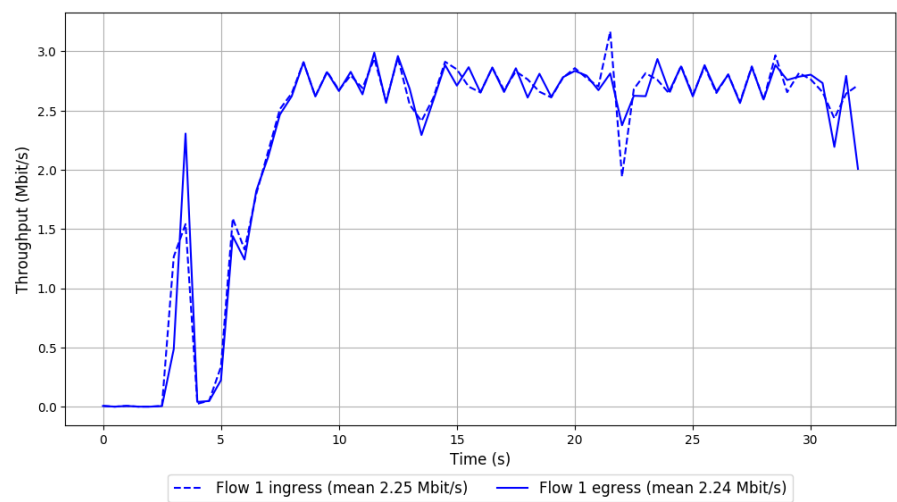
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 83.831 ms

Loss rate: 0.77%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-12 21:49:59

End at: 2018-02-12 21:50:29

Below is generated by plot.py at 2018-02-13 00:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 83.832 ms

Loss rate: 0.66%

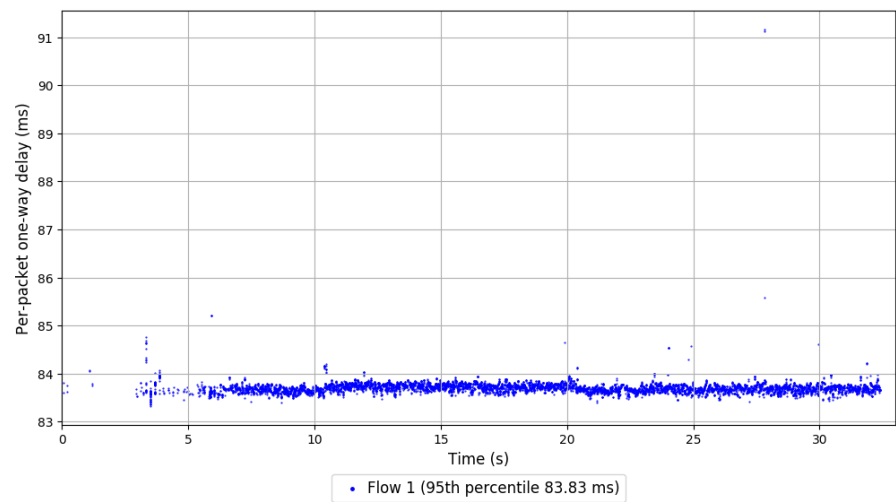
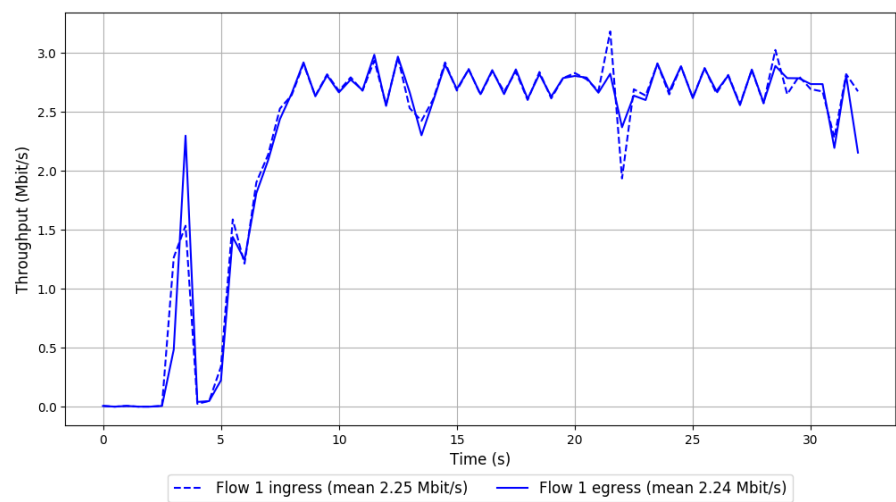
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 83.832 ms

Loss rate: 0.66%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-12 19:28:35

End at: 2018-02-12 19:29:05

Below is generated by plot.py at 2018-02-13 00:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.42 Mbit/s

95th percentile per-packet one-way delay: 75.555 ms

Loss rate: 0.38%

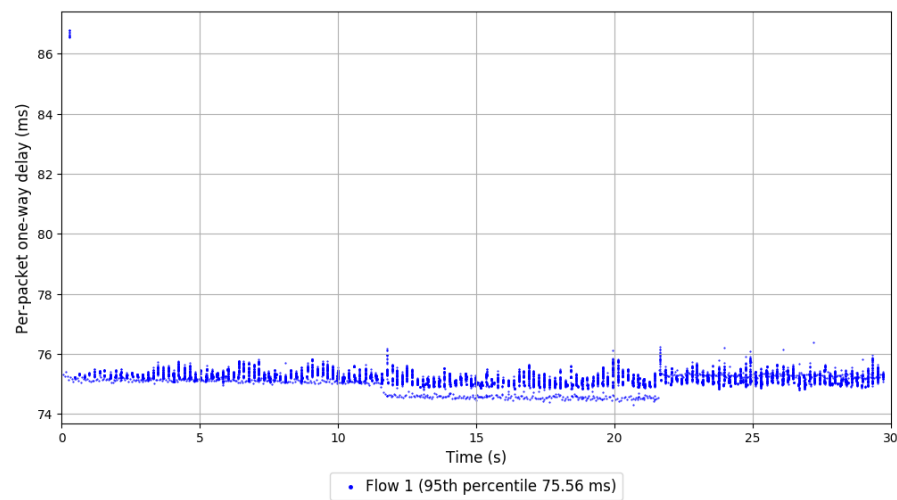
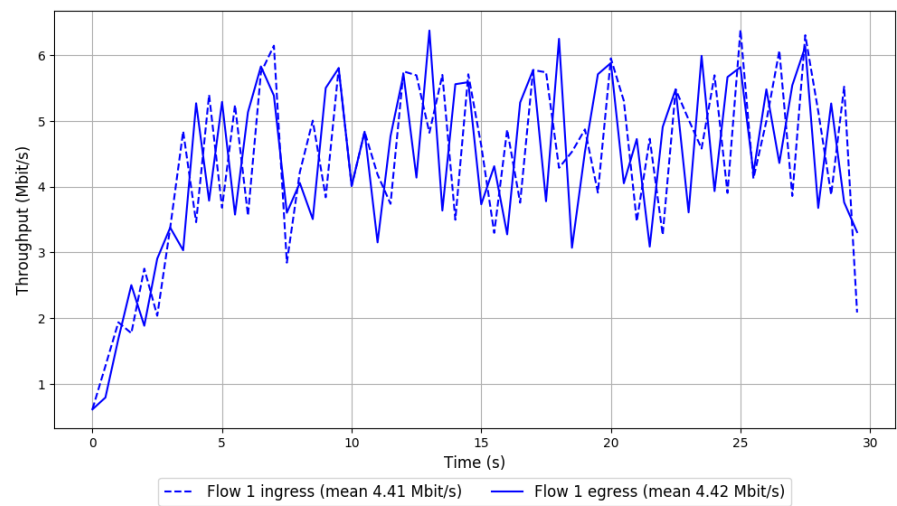
-- Flow 1:

Average throughput: 4.42 Mbit/s

95th percentile per-packet one-way delay: 75.555 ms

Loss rate: 0.38%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-12 19:43:54

End at: 2018-02-12 19:44:24

Below is generated by plot.py at 2018-02-13 00:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 70.264 ms

Loss rate: 1.00%

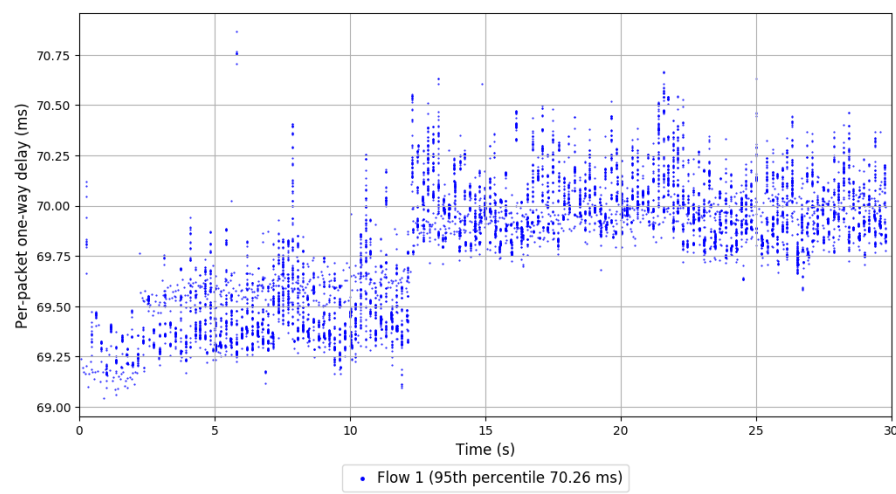
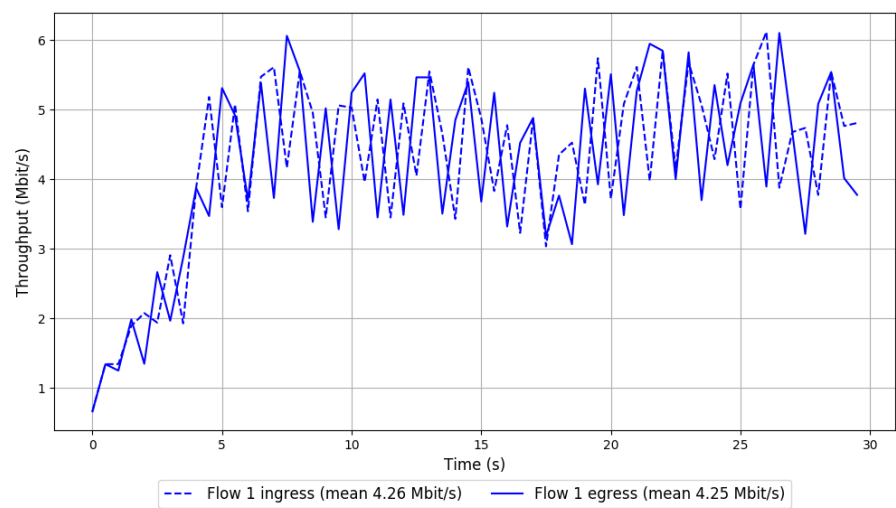
-- Flow 1:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 70.264 ms

Loss rate: 1.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-12 19:59:13

End at: 2018-02-12 19:59:43

Below is generated by plot.py at 2018-02-13 00:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.66 Mbit/s

95th percentile per-packet one-way delay: 66.289 ms

Loss rate: 0.98%

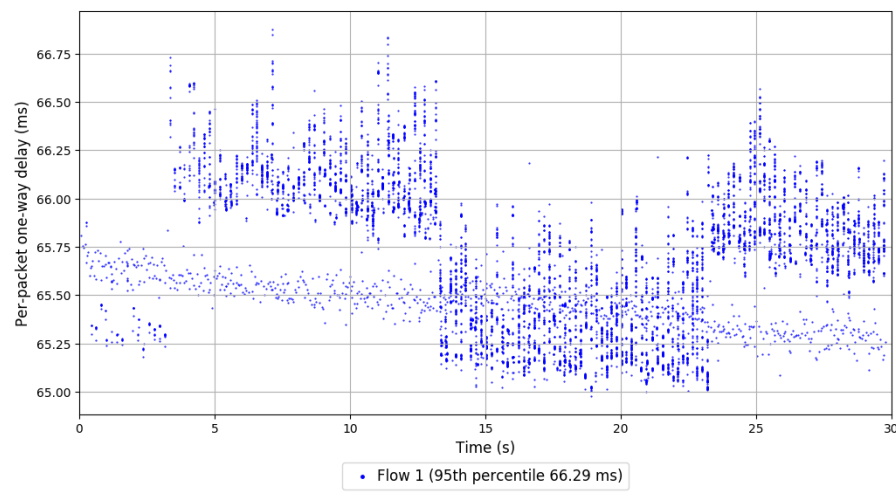
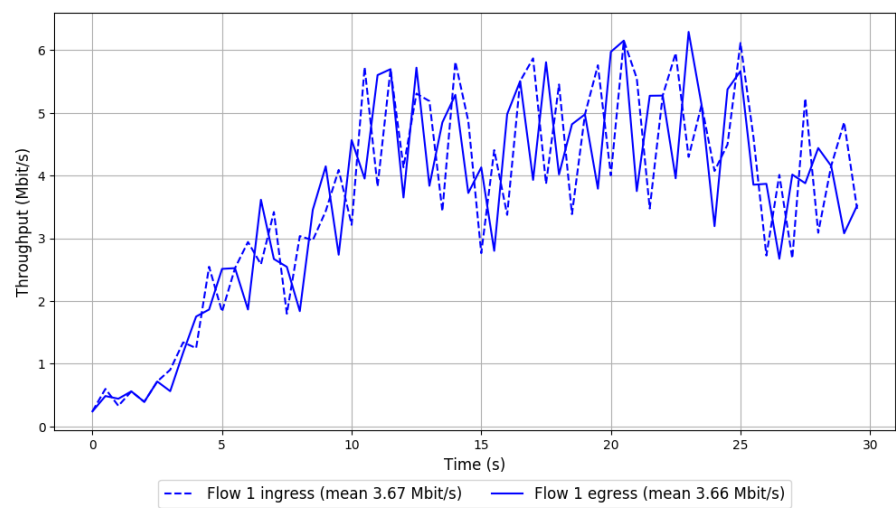
-- Flow 1:

Average throughput: 3.66 Mbit/s

95th percentile per-packet one-way delay: 66.289 ms

Loss rate: 0.98%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-12 20:14:28

End at: 2018-02-12 20:14:58

Below is generated by plot.py at 2018-02-13 00:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.99 Mbit/s

95th percentile per-packet one-way delay: 59.549 ms

Loss rate: 0.74%

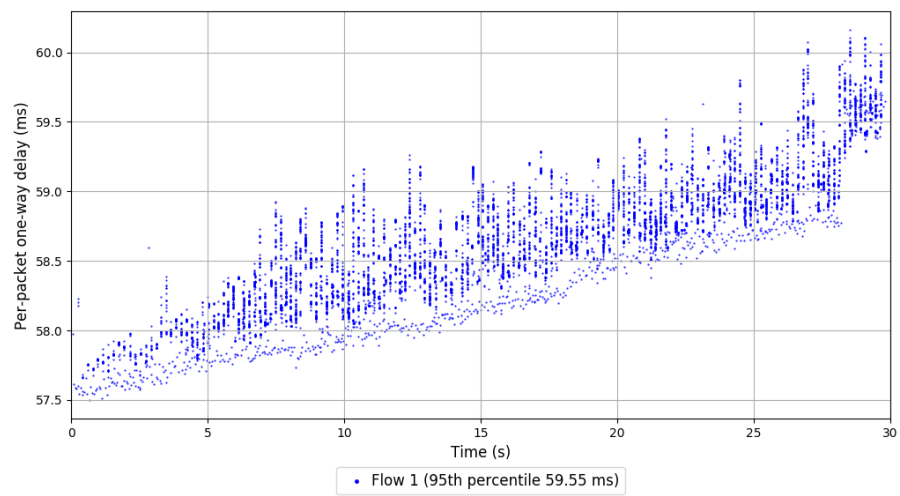
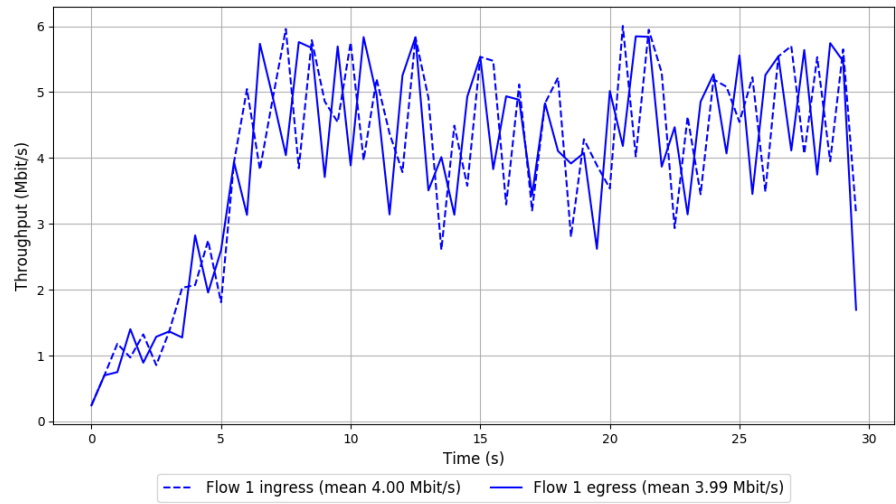
-- Flow 1:

Average throughput: 3.99 Mbit/s

95th percentile per-packet one-way delay: 59.549 ms

Loss rate: 0.74%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-12 20:30:01

End at: 2018-02-12 20:30:31

Below is generated by plot.py at 2018-02-13 00:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.31 Mbit/s

95th percentile per-packet one-way delay: 75.419 ms

Loss rate: 0.69%

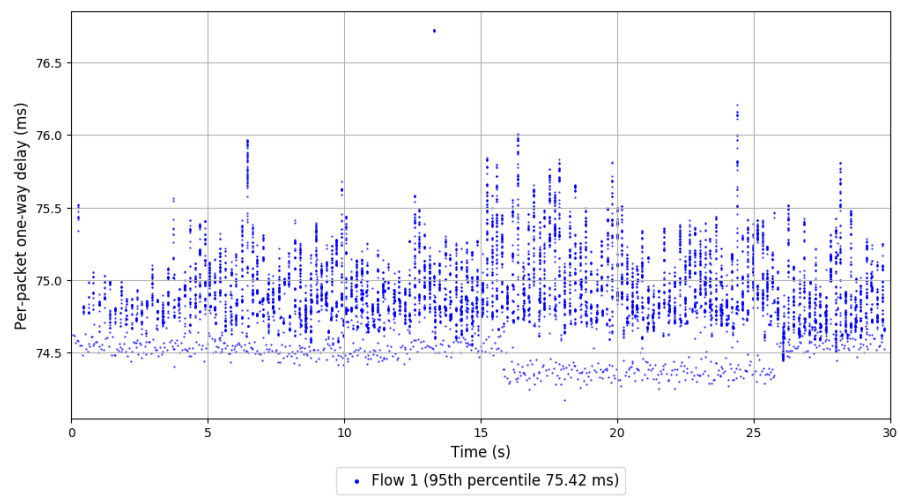
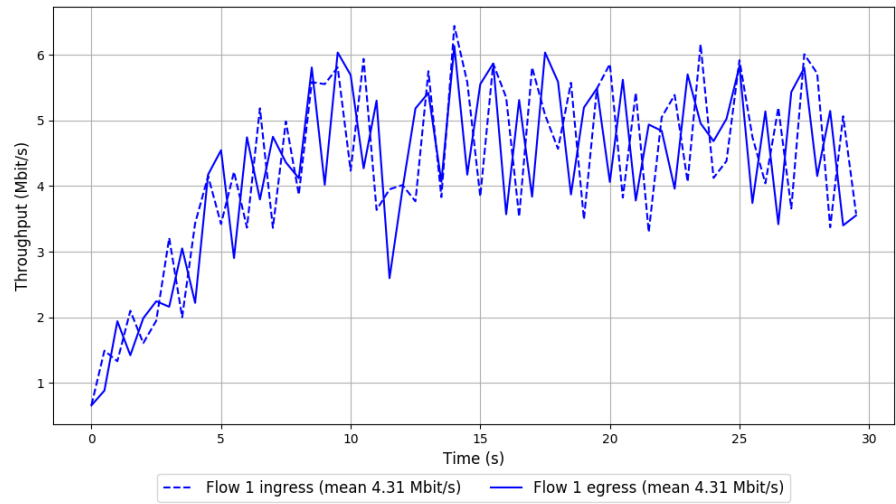
-- Flow 1:

Average throughput: 4.31 Mbit/s

95th percentile per-packet one-way delay: 75.419 ms

Loss rate: 0.69%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-12 20:45:28

End at: 2018-02-12 20:45:58

Below is generated by plot.py at 2018-02-13 00:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.38 Mbit/s

95th percentile per-packet one-way delay: 71.934 ms

Loss rate: 0.87%

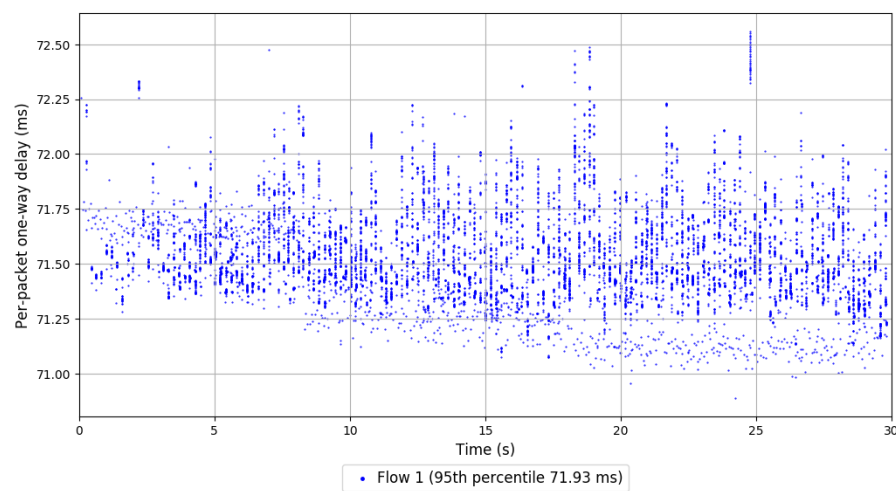
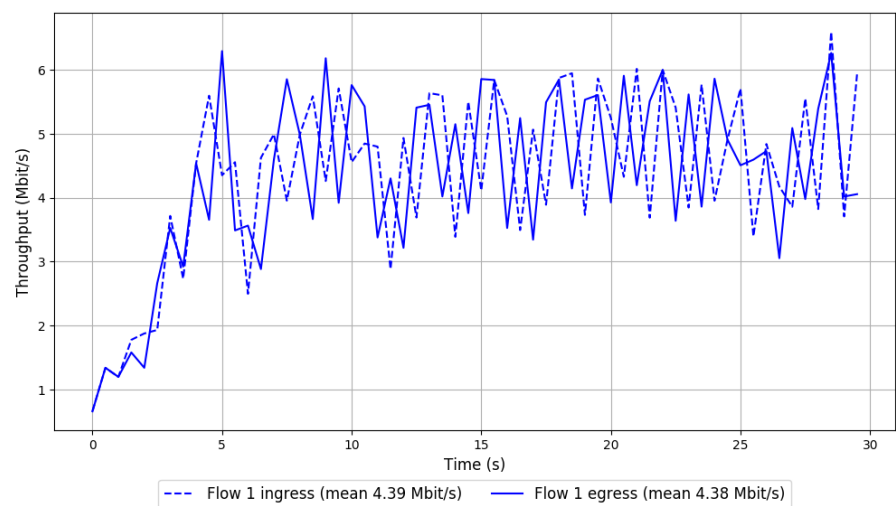
-- Flow 1:

Average throughput: 4.38 Mbit/s

95th percentile per-packet one-way delay: 71.934 ms

Loss rate: 0.87%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-12 21:00:45

End at: 2018-02-12 21:01:15

Below is generated by plot.py at 2018-02-13 00:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.39 Mbit/s

95th percentile per-packet one-way delay: 79.840 ms

Loss rate: 1.85%

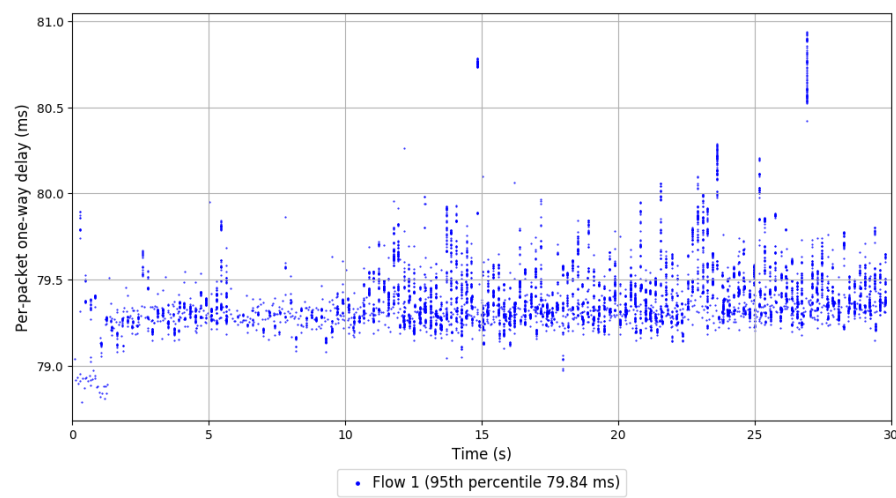
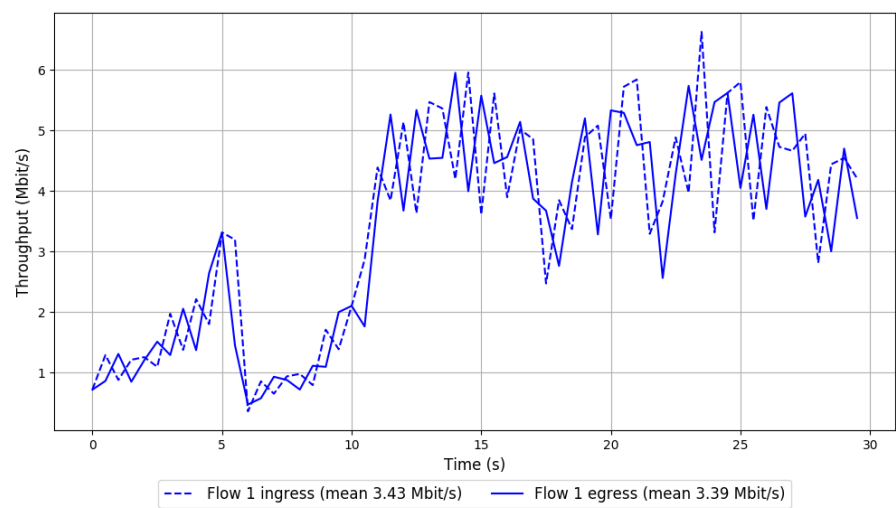
-- Flow 1:

Average throughput: 3.39 Mbit/s

95th percentile per-packet one-way delay: 79.840 ms

Loss rate: 1.85%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-12 21:16:14

End at: 2018-02-12 21:16:44

Below is generated by plot.py at 2018-02-13 00:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.37 Mbit/s

95th percentile per-packet one-way delay: 79.005 ms

Loss rate: 0.92%

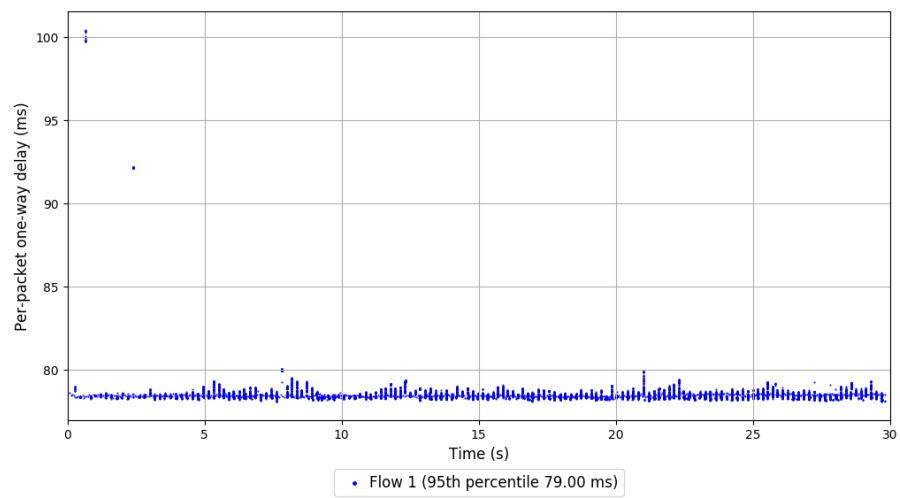
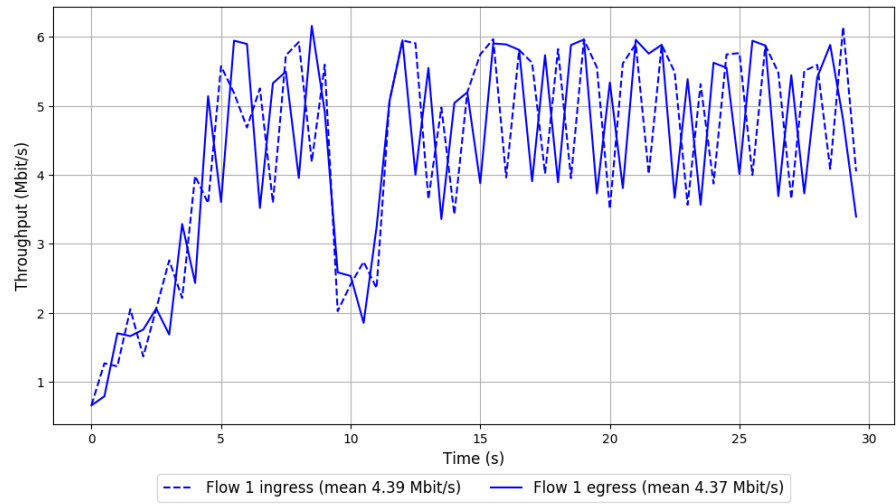
-- Flow 1:

Average throughput: 4.37 Mbit/s

95th percentile per-packet one-way delay: 79.005 ms

Loss rate: 0.92%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-12 21:31:40

End at: 2018-02-12 21:32:10

Below is generated by plot.py at 2018-02-13 00:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.38 Mbit/s

95th percentile per-packet one-way delay: 83.548 ms

Loss rate: 1.40%

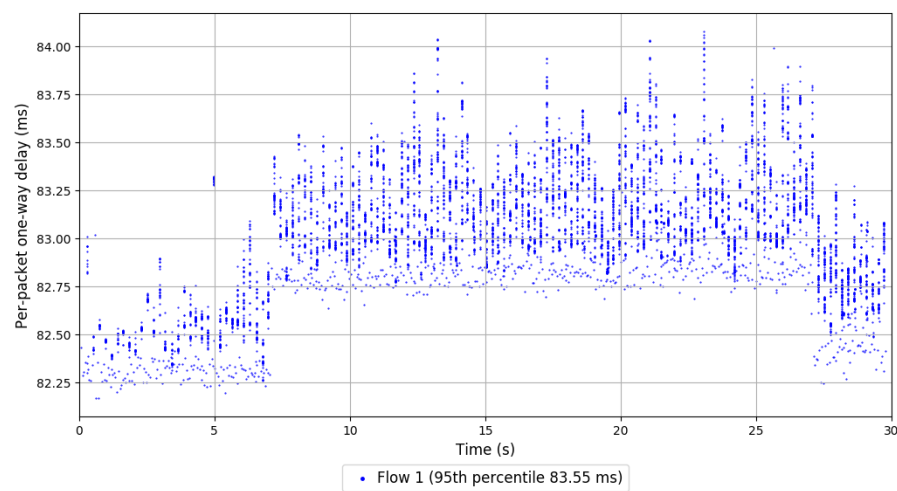
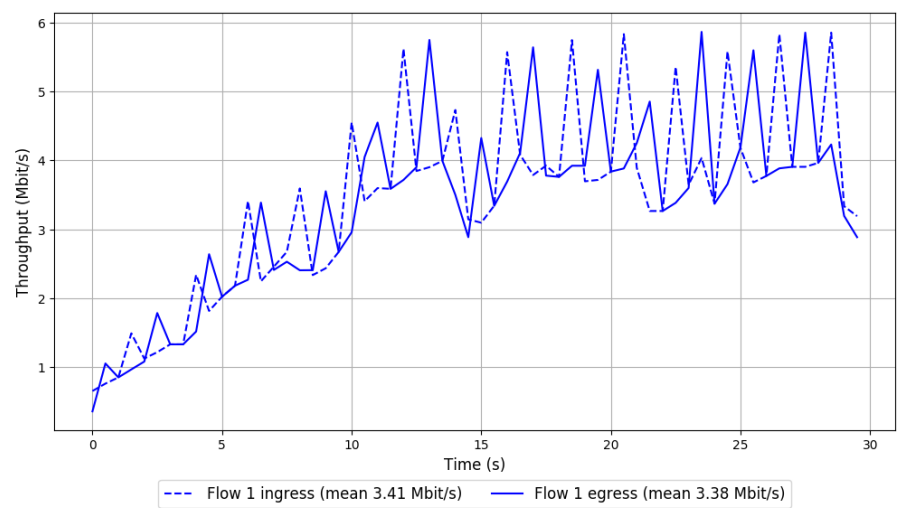
-- Flow 1:

Average throughput: 3.38 Mbit/s

95th percentile per-packet one-way delay: 83.548 ms

Loss rate: 1.40%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-12 21:46:43

End at: 2018-02-12 21:47:13

Below is generated by plot.py at 2018-02-13 00:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.34 Mbit/s

95th percentile per-packet one-way delay: 84.532 ms

Loss rate: 0.73%

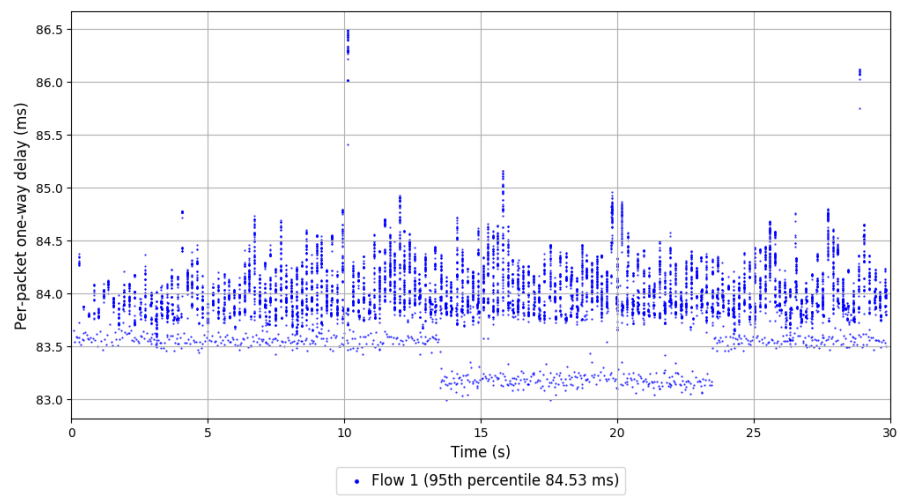
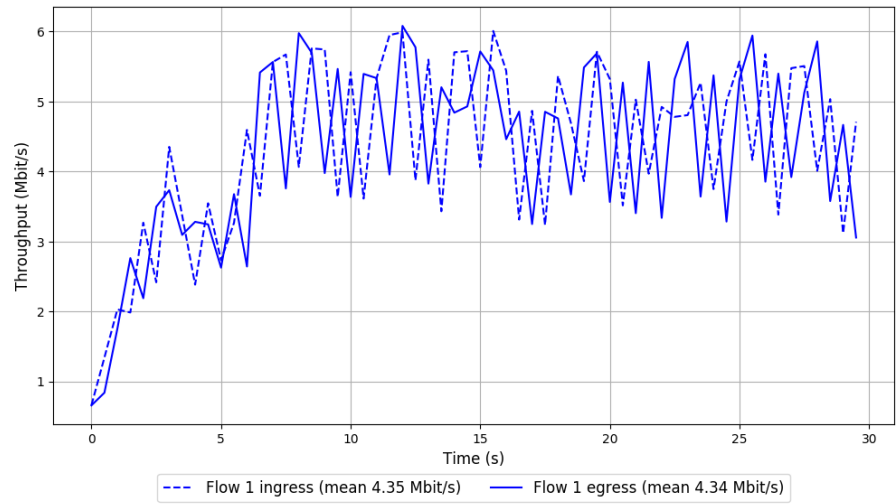
-- Flow 1:

Average throughput: 4.34 Mbit/s

95th percentile per-packet one-way delay: 84.532 ms

Loss rate: 0.73%

Run 10: Report of Sprout — Data Link

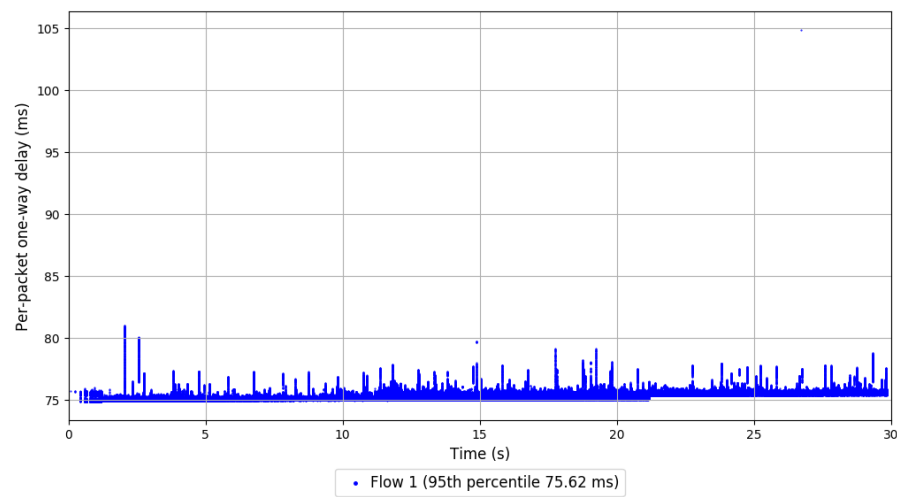
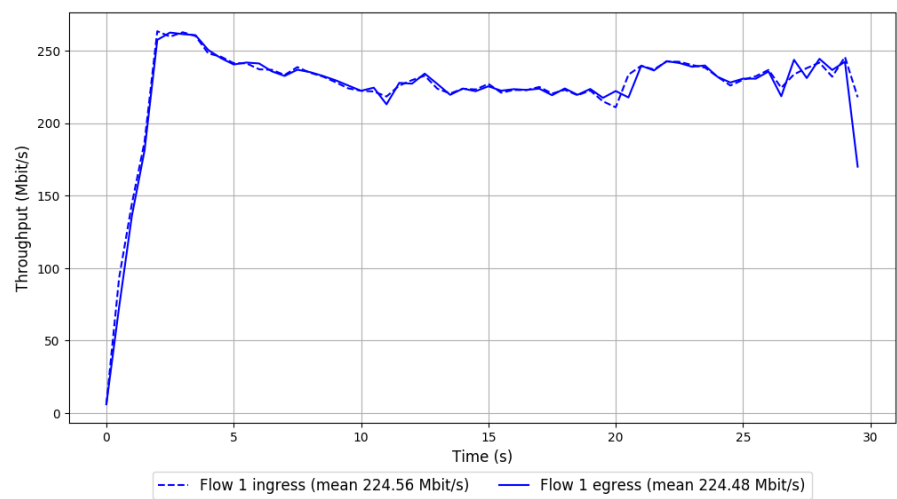


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-12 19:25:05
End at: 2018-02-12 19:25:35

# Below is generated by plot.py at 2018-02-13 00:54:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 224.48 Mbit/s
95th percentile per-packet one-way delay: 75.617 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 224.48 Mbit/s
95th percentile per-packet one-way delay: 75.617 ms
Loss rate: 0.62%
```

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

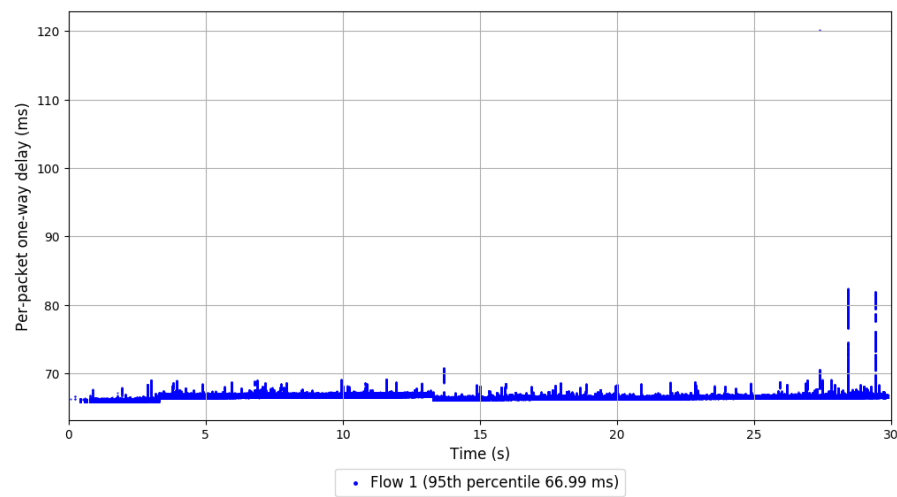
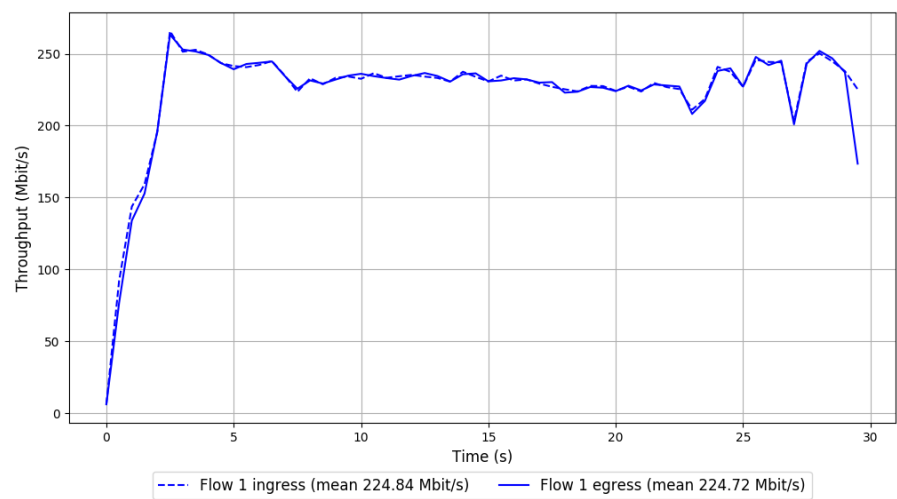


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-12 19:40:23
End at: 2018-02-12 19:40:53

# Below is generated by plot.py at 2018-02-13 00:54:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 224.72 Mbit/s
95th percentile per-packet one-way delay: 66.989 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 224.72 Mbit/s
95th percentile per-packet one-way delay: 66.989 ms
Loss rate: 0.62%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-02-12 19:55:40

End at: 2018-02-12 19:56:10

Below is generated by plot.py at 2018-02-13 00:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.72 Mbit/s

95th percentile per-packet one-way delay: 68.082 ms

Loss rate: 0.38%

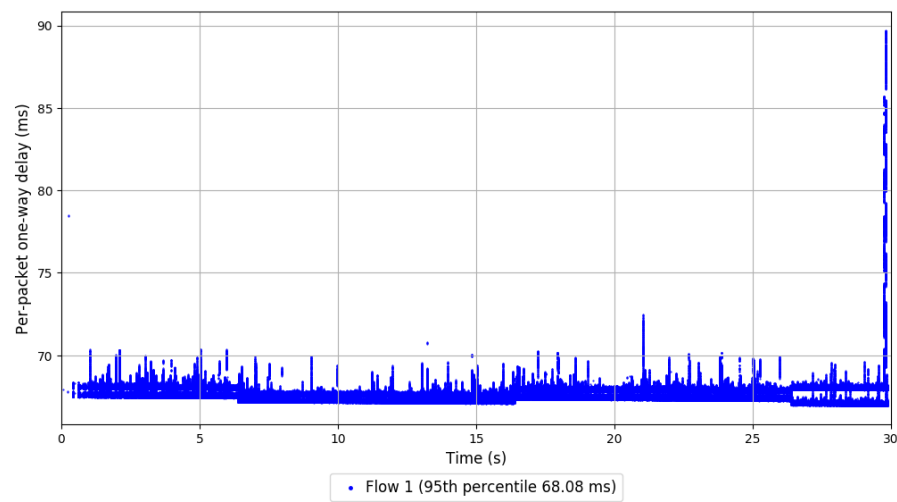
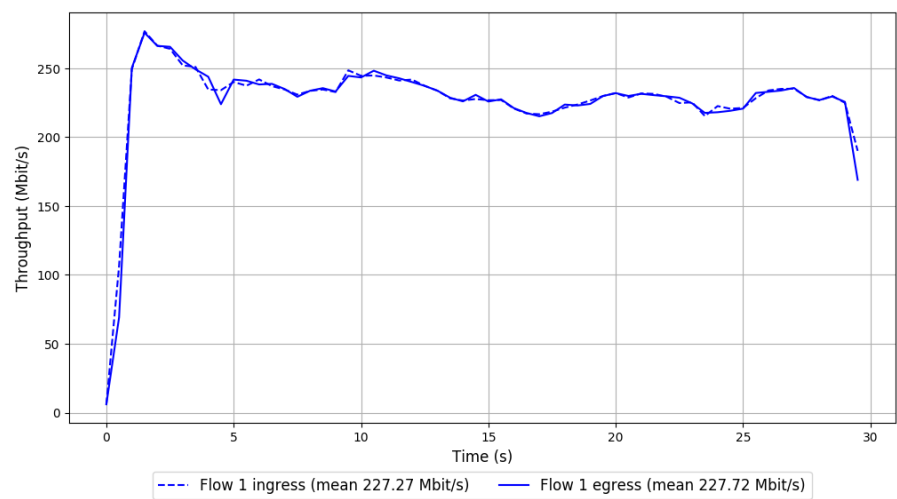
-- Flow 1:

Average throughput: 227.72 Mbit/s

95th percentile per-packet one-way delay: 68.082 ms

Loss rate: 0.38%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-02-12 20:11:01

End at: 2018-02-12 20:11:31

Below is generated by plot.py at 2018-02-13 00:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.93 Mbit/s

95th percentile per-packet one-way delay: 56.506 ms

Loss rate: 0.59%

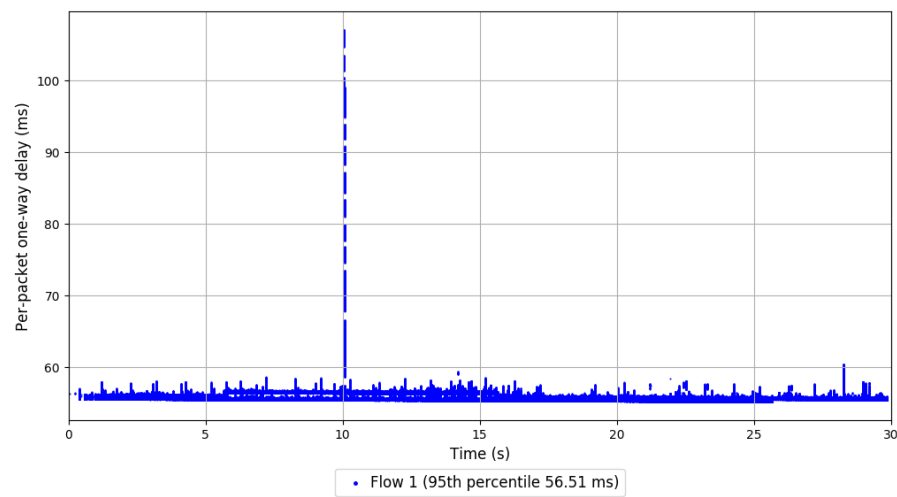
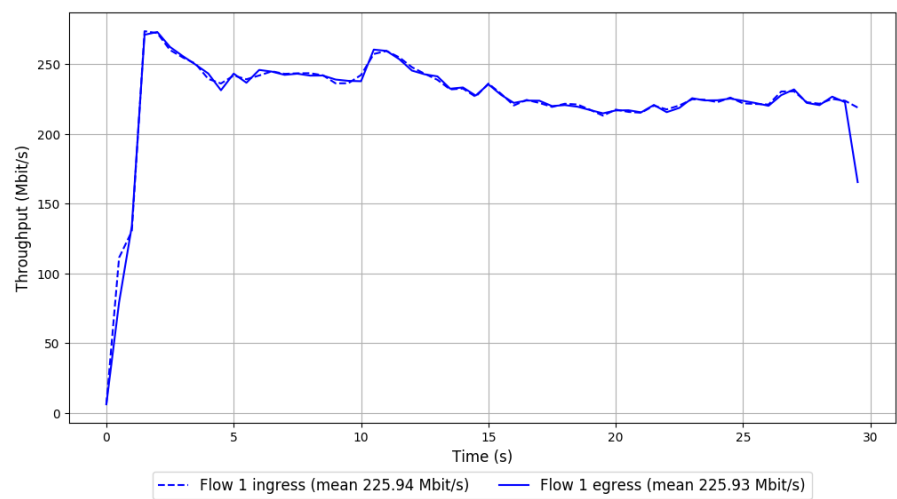
-- Flow 1:

Average throughput: 225.93 Mbit/s

95th percentile per-packet one-way delay: 56.506 ms

Loss rate: 0.59%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-12 20:26:30

End at: 2018-02-12 20:27:00

Below is generated by plot.py at 2018-02-13 00:54:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 229.25 Mbit/s

95th percentile per-packet one-way delay: 73.939 ms

Loss rate: 0.55%

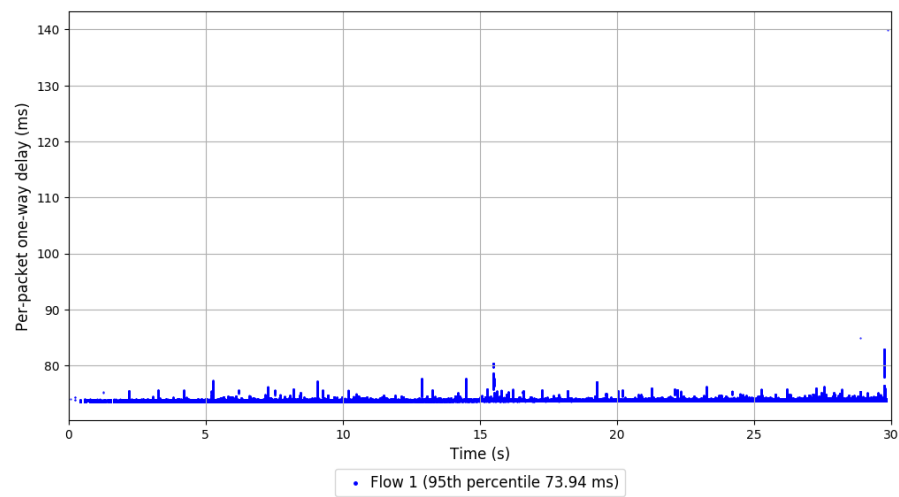
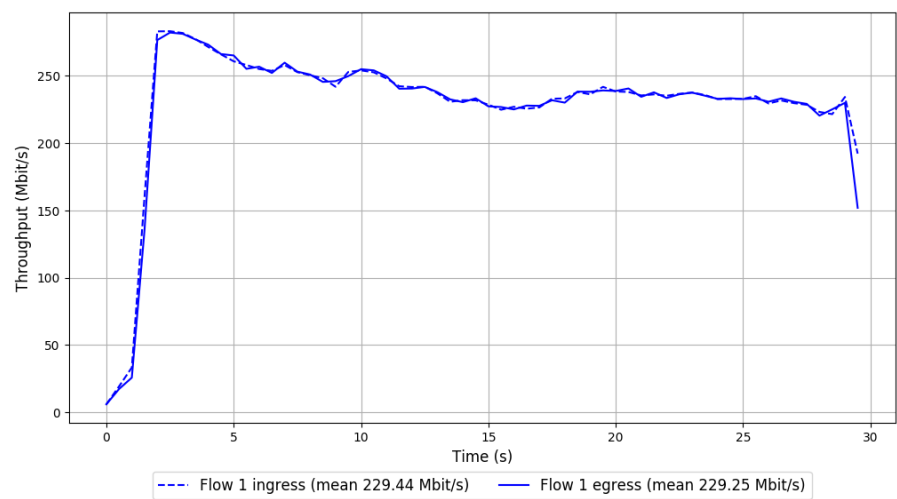
-- Flow 1:

Average throughput: 229.25 Mbit/s

95th percentile per-packet one-way delay: 73.939 ms

Loss rate: 0.55%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-12 20:41:57

End at: 2018-02-12 20:42:27

Below is generated by plot.py at 2018-02-13 00:54:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 235.04 Mbit/s

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

Loss rate: 0.59%

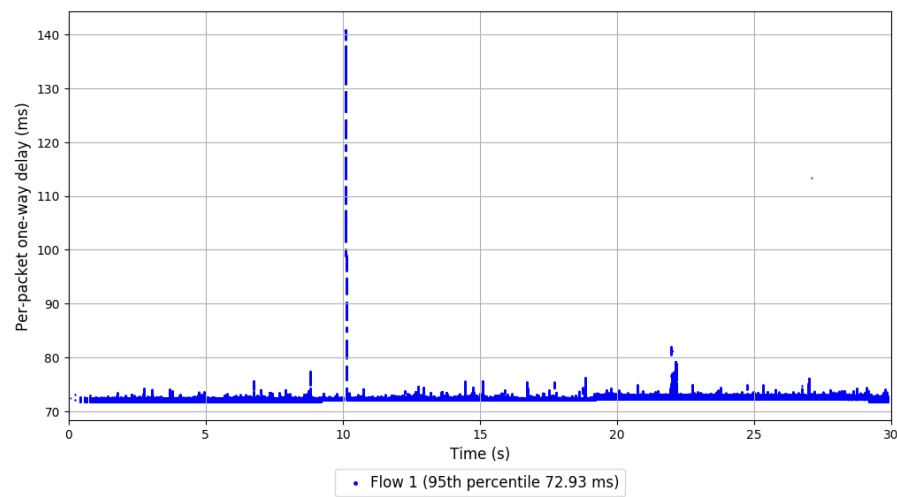
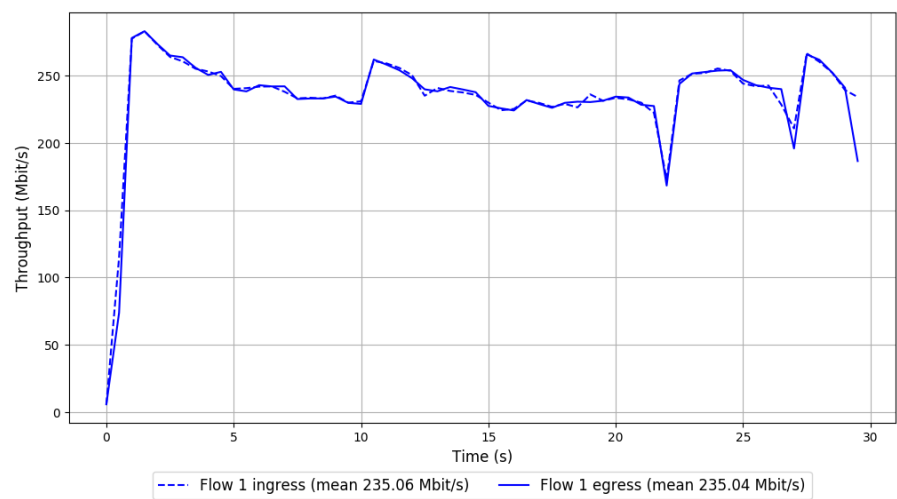
-- Flow 1:

Average throughput: 235.04 Mbit/s

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

Loss rate: 0.59%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-12 20:57:15

End at: 2018-02-12 20:57:45

Below is generated by plot.py at 2018-02-13 00:59:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 230.90 Mbit/s

95th percentile per-packet one-way delay: 78.588 ms

Loss rate: 0.61%

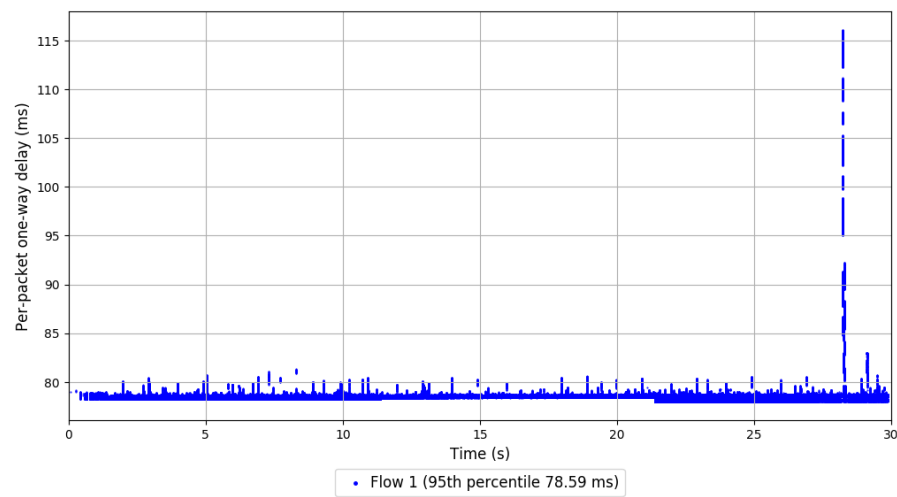
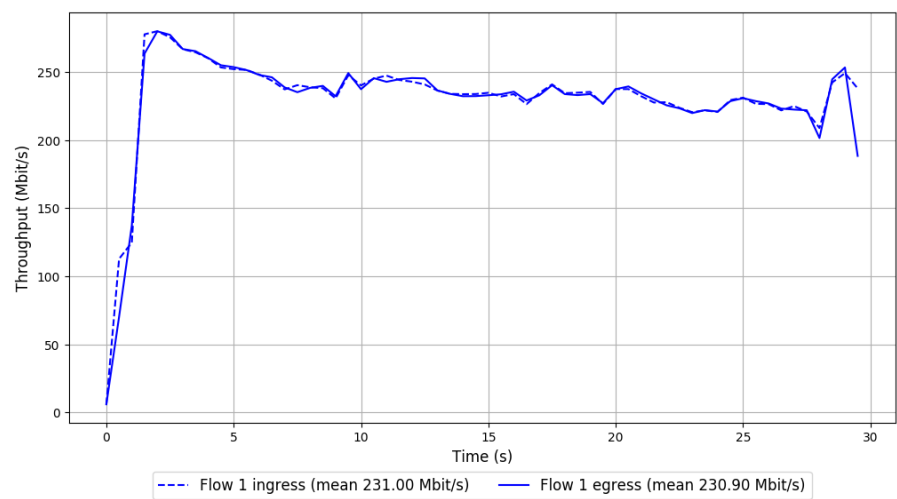
-- Flow 1:

Average throughput: 230.90 Mbit/s

95th percentile per-packet one-way delay: 78.588 ms

Loss rate: 0.61%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-12 21:12:44

End at: 2018-02-12 21:13:14

Below is generated by plot.py at 2018-02-13 00:59:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.24 Mbit/s

95th percentile per-packet one-way delay: 78.992 ms

Loss rate: 0.69%

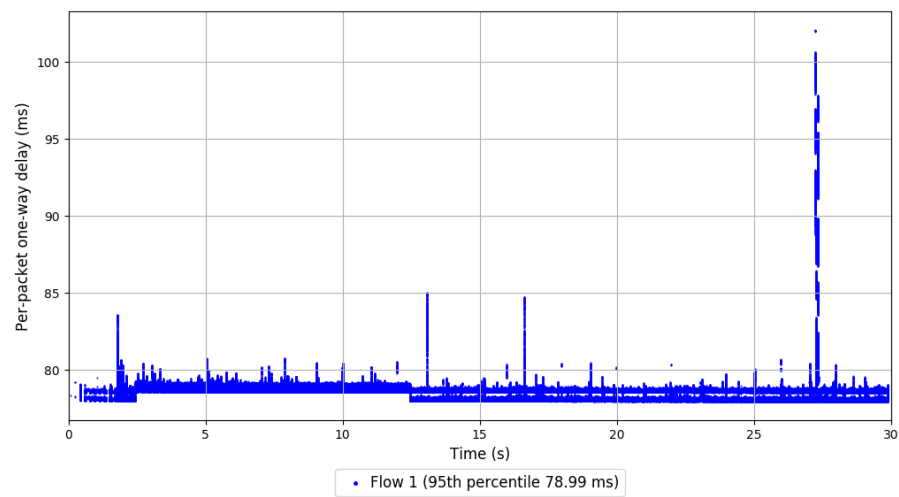
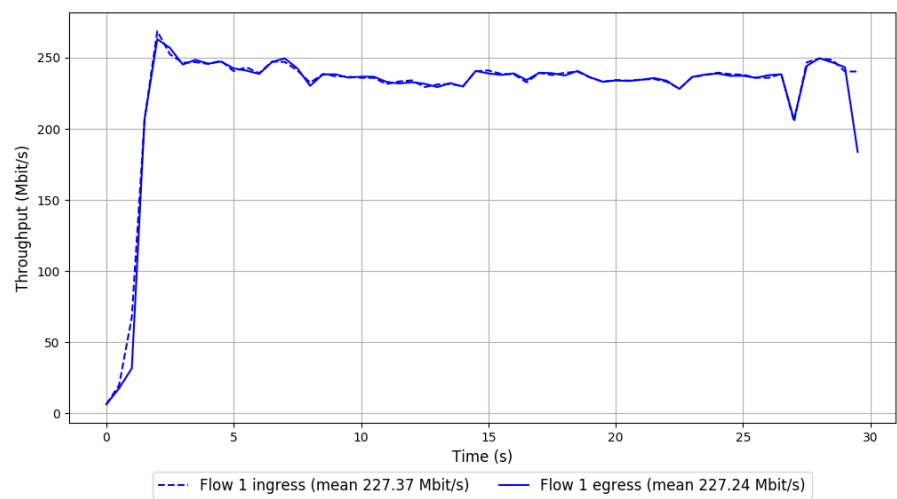
-- Flow 1:

Average throughput: 227.24 Mbit/s

95th percentile per-packet one-way delay: 78.992 ms

Loss rate: 0.69%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-12 21:28:11

End at: 2018-02-12 21:28:41

Below is generated by plot.py at 2018-02-13 01:00:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 236.38 Mbit/s

95th percentile per-packet one-way delay: 81.875 ms

Loss rate: 0.62%

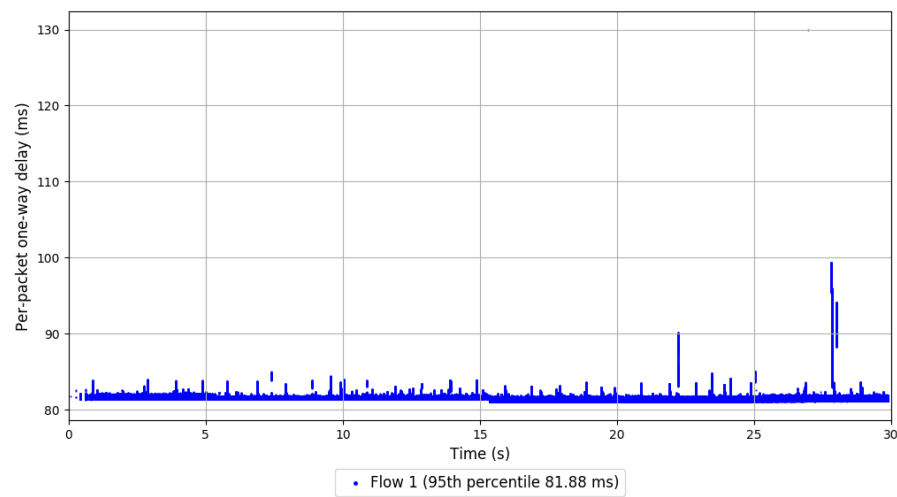
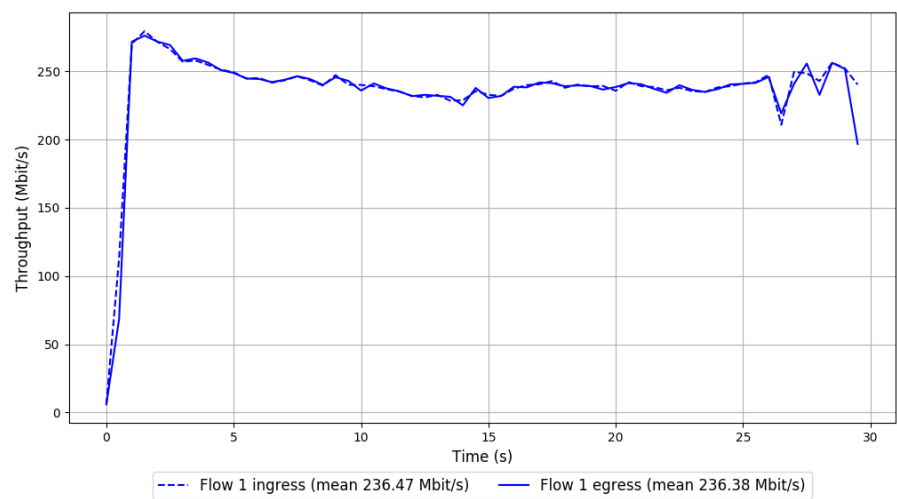
-- Flow 1:

Average throughput: 236.38 Mbit/s

95th percentile per-packet one-way delay: 81.875 ms

Loss rate: 0.62%

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

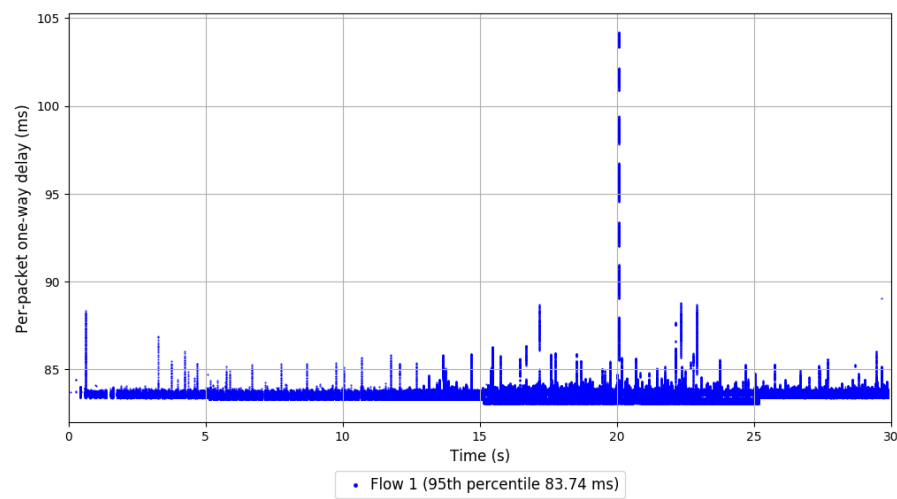
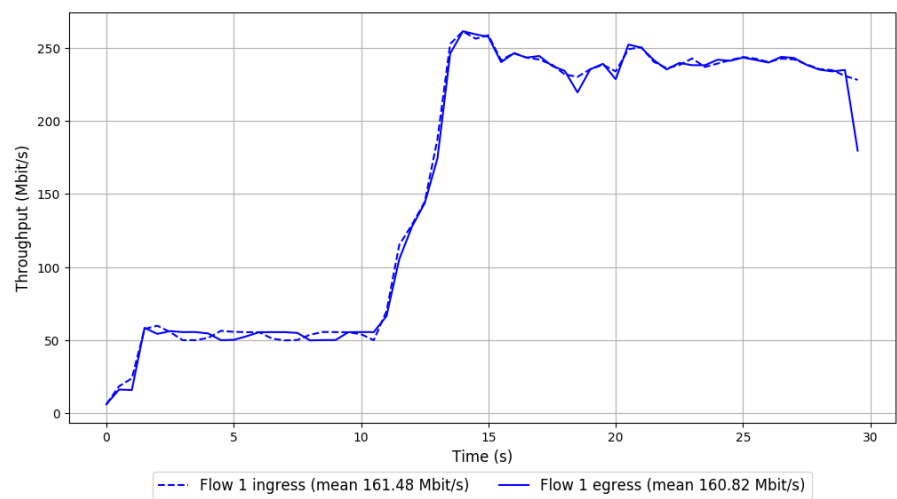


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-12 21:43:21
End at: 2018-02-12 21:43:52

# Below is generated by plot.py at 2018-02-13 01:00:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 160.82 Mbit/s
95th percentile per-packet one-way delay: 83.743 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 160.82 Mbit/s
95th percentile per-packet one-way delay: 83.743 ms
Loss rate: 0.99%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-12 19:20:45

End at: 2018-02-12 19:21:15

Below is generated by plot.py at 2018-02-13 01:00:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.69 Mbit/s

95th percentile per-packet one-way delay: 76.097 ms

Loss rate: 0.37%

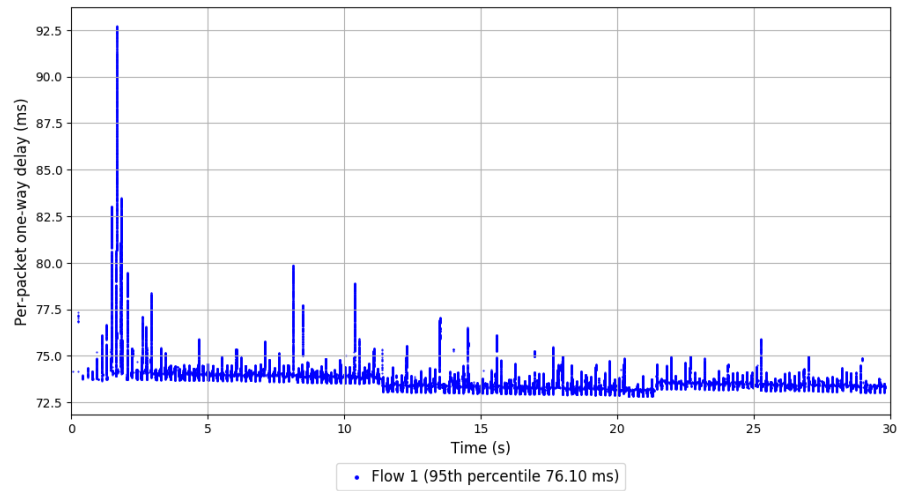
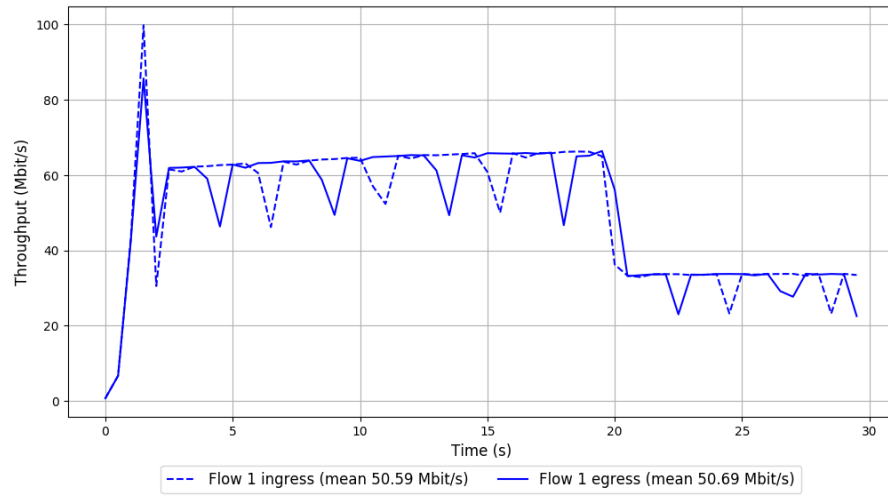
-- Flow 1:

Average throughput: 50.69 Mbit/s

95th percentile per-packet one-way delay: 76.097 ms

Loss rate: 0.37%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-12 19:36:00

End at: 2018-02-12 19:36:30

Below is generated by plot.py at 2018-02-13 01:00:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.97 Mbit/s

95th percentile per-packet one-way delay: 69.803 ms

Loss rate: 0.27%

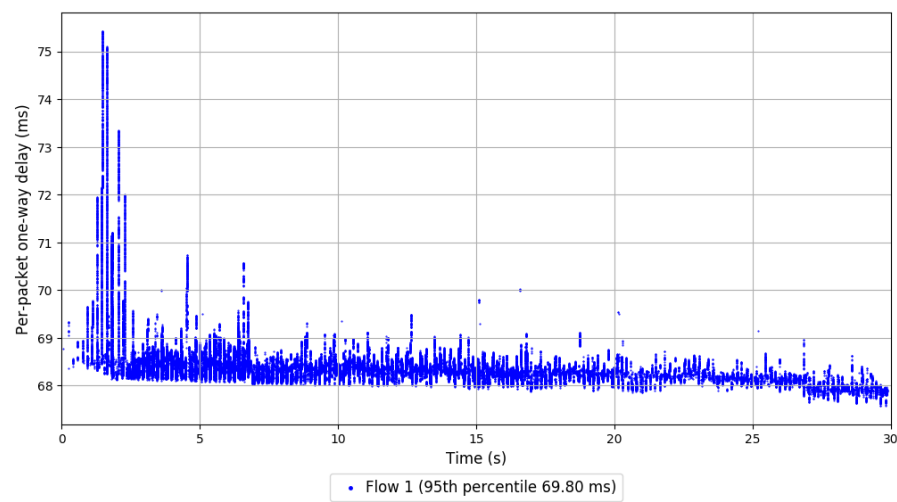
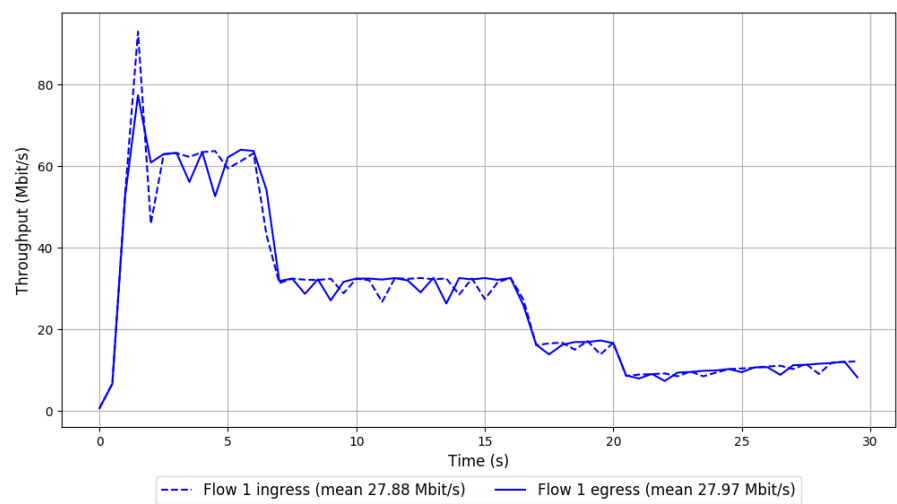
-- Flow 1:

Average throughput: 27.97 Mbit/s

95th percentile per-packet one-way delay: 69.803 ms

Loss rate: 0.27%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-12 19:51:20

End at: 2018-02-12 19:51:50

Below is generated by plot.py at 2018-02-13 01:00:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.55 Mbit/s

95th percentile per-packet one-way delay: 71.113 ms

Loss rate: 0.63%

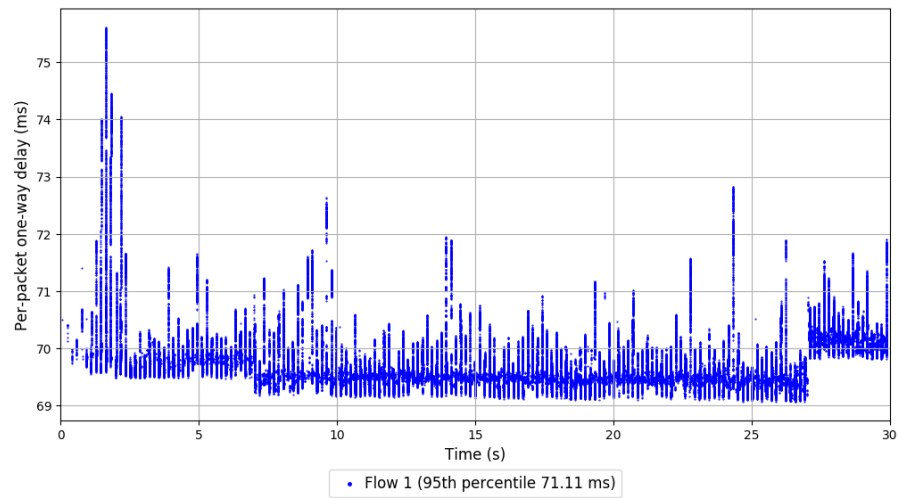
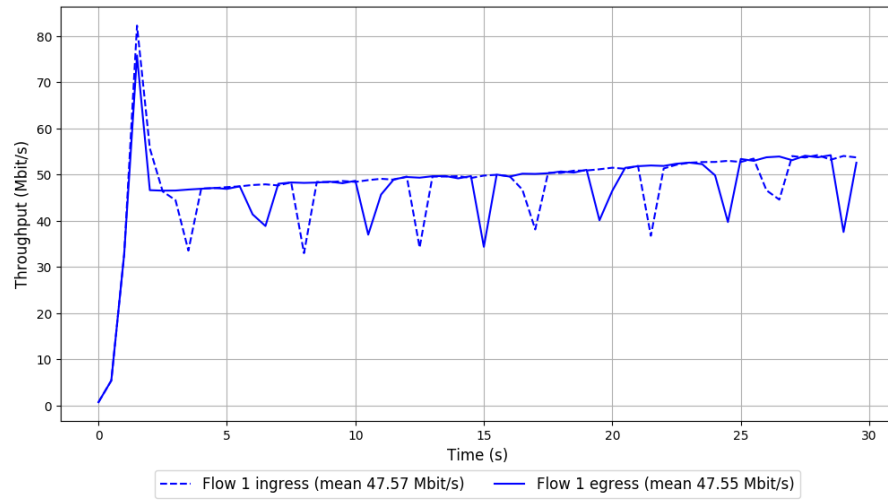
-- Flow 1:

Average throughput: 47.55 Mbit/s

95th percentile per-packet one-way delay: 71.113 ms

Loss rate: 0.63%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-12 20:06:39

End at: 2018-02-12 20:07:09

Below is generated by plot.py at 2018-02-13 01:00:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.14 Mbit/s

95th percentile per-packet one-way delay: 60.995 ms

Loss rate: 0.60%

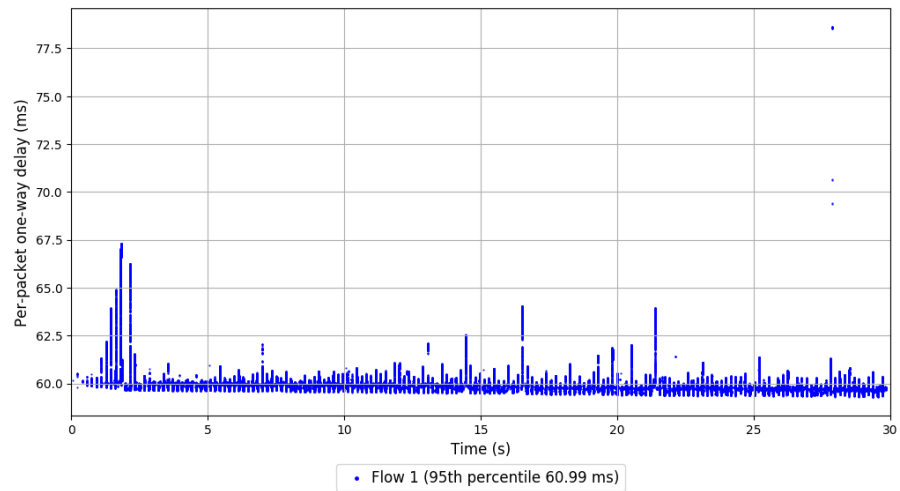
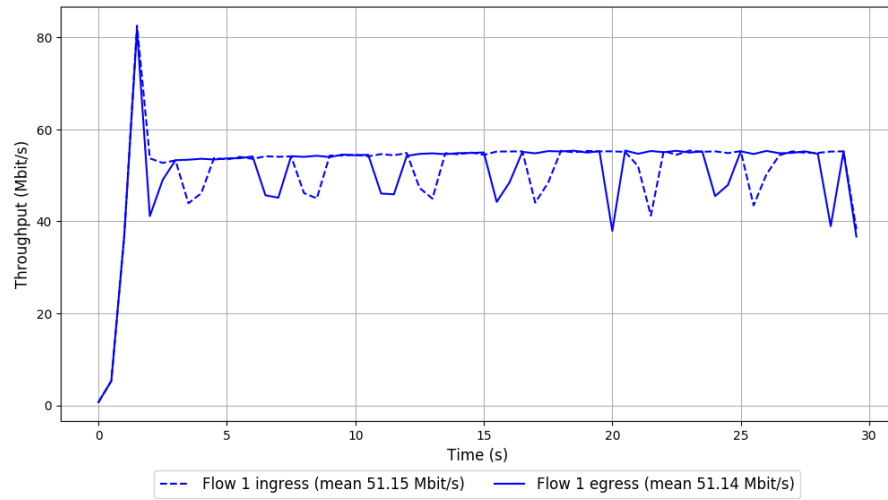
-- Flow 1:

Average throughput: 51.14 Mbit/s

95th percentile per-packet one-way delay: 60.995 ms

Loss rate: 0.60%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-12 20:22:05

End at: 2018-02-12 20:22:35

Below is generated by plot.py at 2018-02-13 01:00:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.45 Mbit/s

95th percentile per-packet one-way delay: 72.695 ms

Loss rate: 0.38%

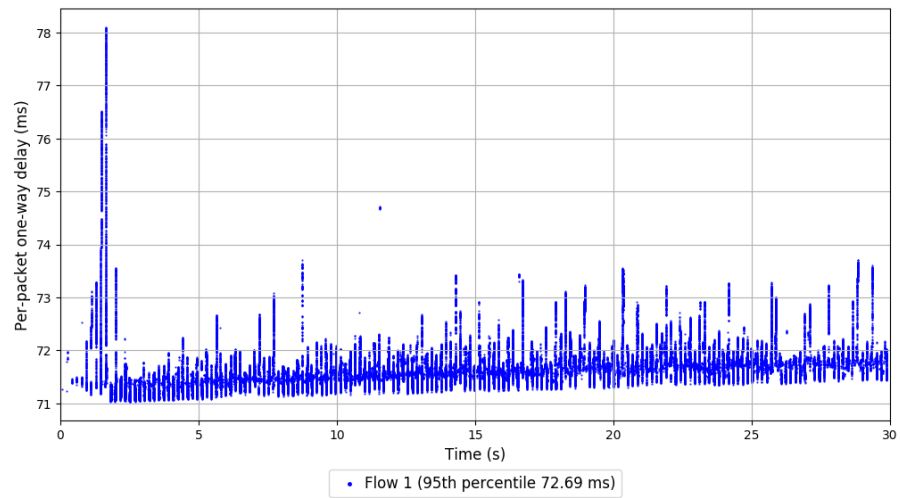
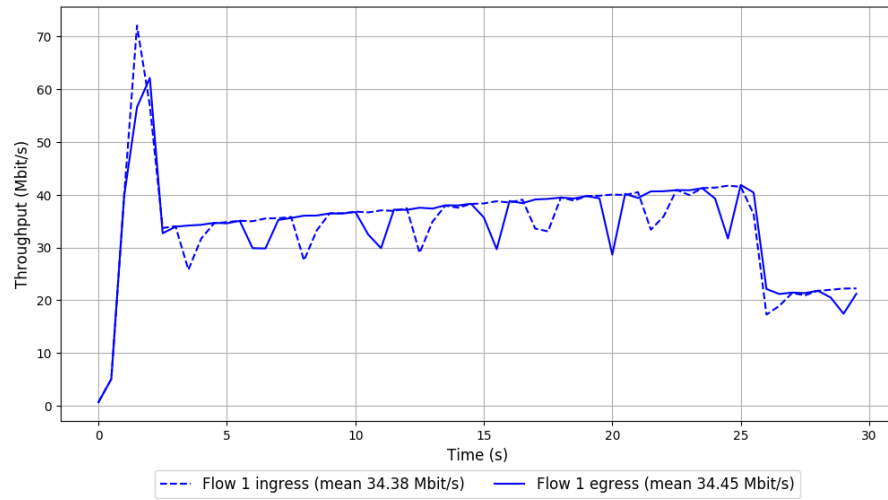
-- Flow 1:

Average throughput: 34.45 Mbit/s

95th percentile per-packet one-way delay: 72.695 ms

Loss rate: 0.38%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-12 20:37:30

End at: 2018-02-12 20:38:00

Below is generated by plot.py at 2018-02-13 01:00:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.70 Mbit/s

95th percentile per-packet one-way delay: 75.052 ms

Loss rate: 0.32%

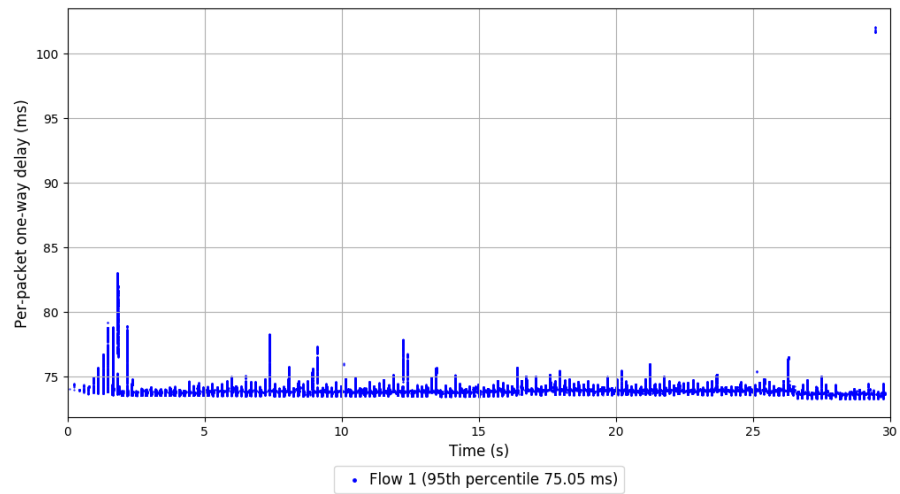
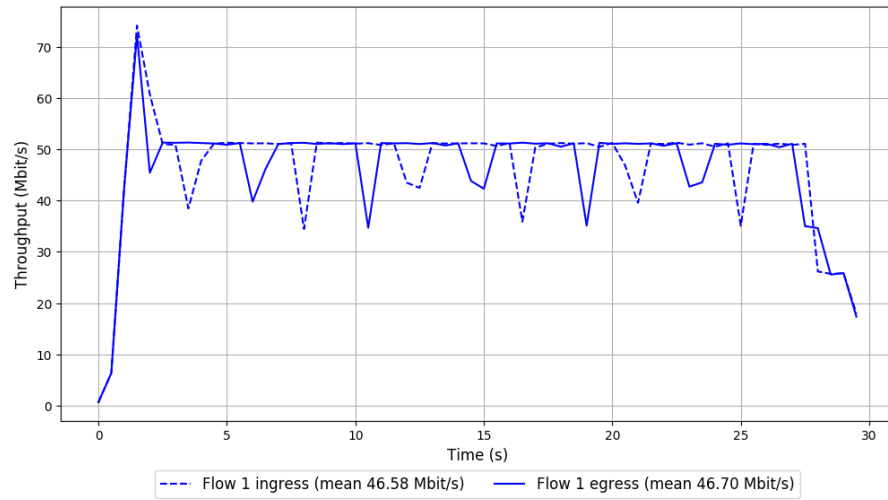
-- Flow 1:

Average throughput: 46.70 Mbit/s

95th percentile per-packet one-way delay: 75.052 ms

Loss rate: 0.32%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-12 20:52:50

End at: 2018-02-12 20:53:20

Below is generated by plot.py at 2018-02-13 01:00:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.13 Mbit/s

95th percentile per-packet one-way delay: 78.026 ms

Loss rate: 0.23%

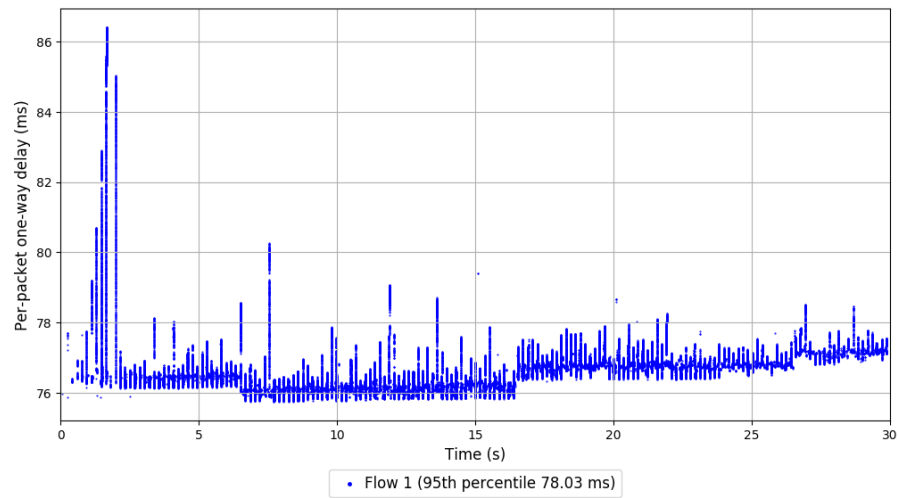
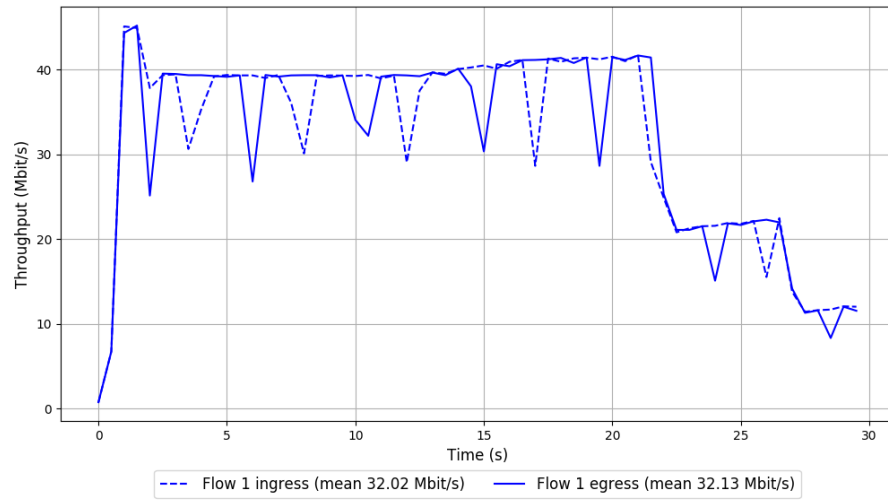
-- Flow 1:

Average throughput: 32.13 Mbit/s

95th percentile per-packet one-way delay: 78.026 ms

Loss rate: 0.23%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-12 21:08:18

End at: 2018-02-12 21:08:48

Below is generated by plot.py at 2018-02-13 01:00:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.08 Mbit/s

95th percentile per-packet one-way delay: 80.080 ms

Loss rate: 0.27%

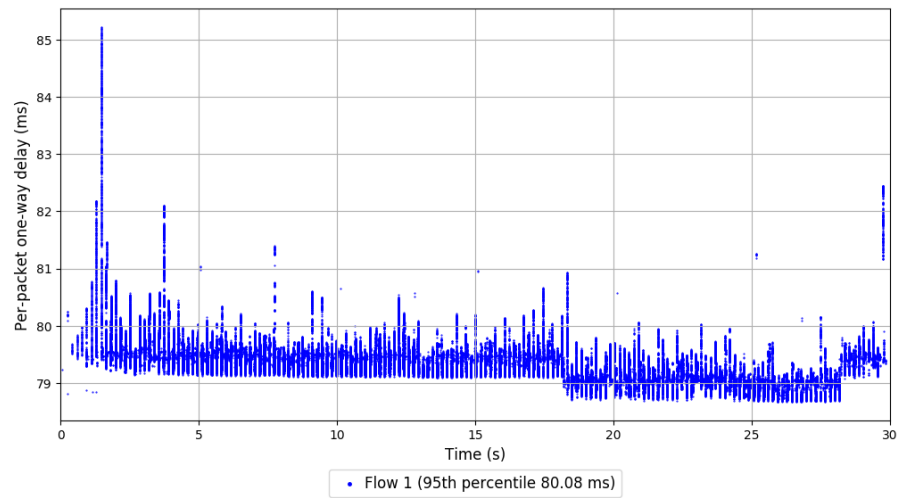
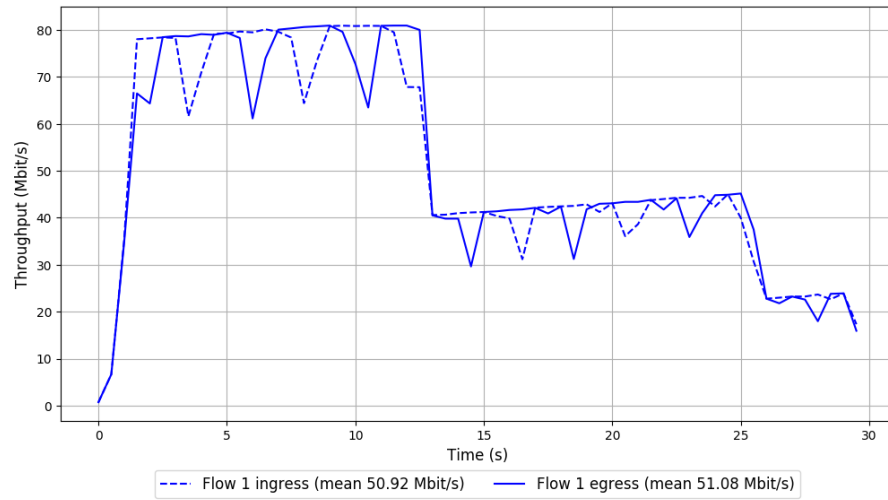
-- Flow 1:

Average throughput: 51.08 Mbit/s

95th percentile per-packet one-way delay: 80.080 ms

Loss rate: 0.27%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-12 21:23:48

End at: 2018-02-12 21:24:19

Below is generated by plot.py at 2018-02-13 01:00:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.96 Mbit/s

95th percentile per-packet one-way delay: 81.057 ms

Loss rate: 0.45%

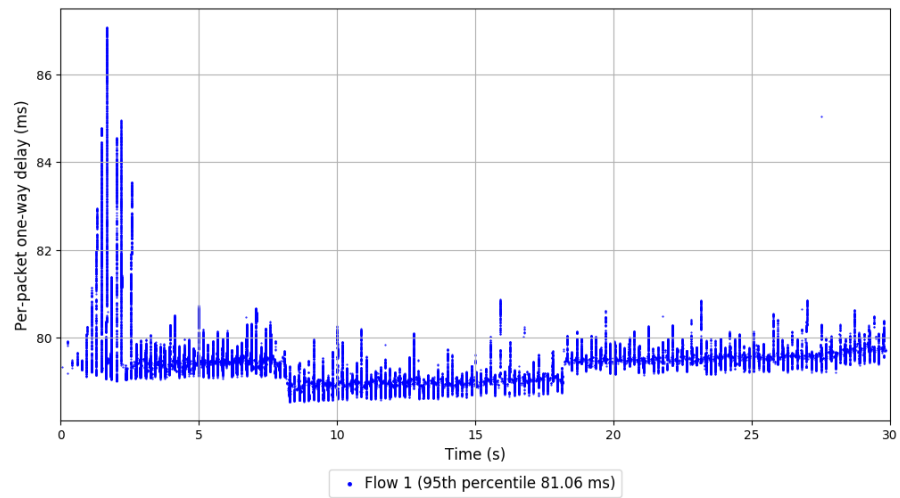
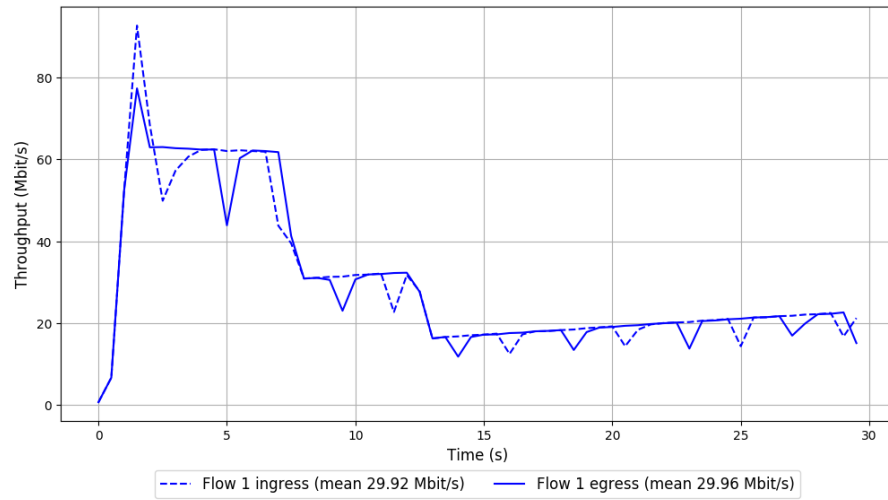
-- Flow 1:

Average throughput: 29.96 Mbit/s

95th percentile per-packet one-way delay: 81.057 ms

Loss rate: 0.45%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-12 21:39:02

End at: 2018-02-12 21:39:32

Below is generated by plot.py at 2018-02-13 01:00:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.68 Mbit/s

95th percentile per-packet one-way delay: 85.735 ms

Loss rate: 0.67%

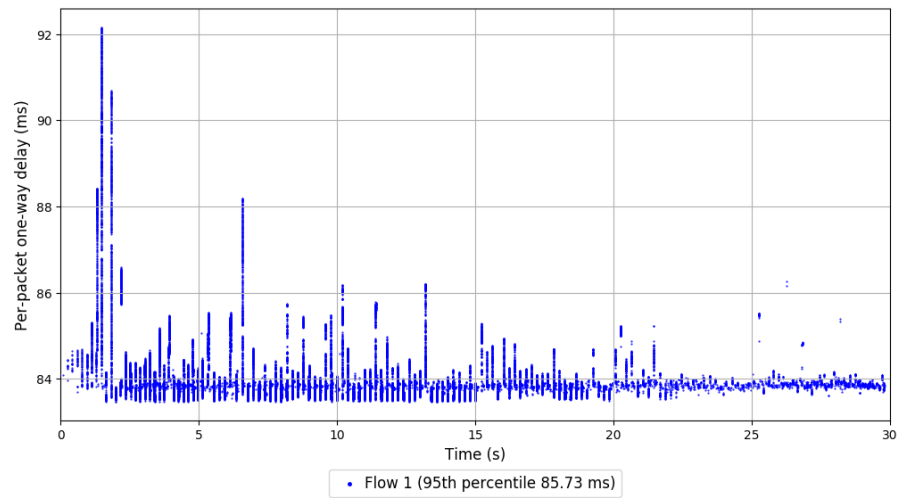
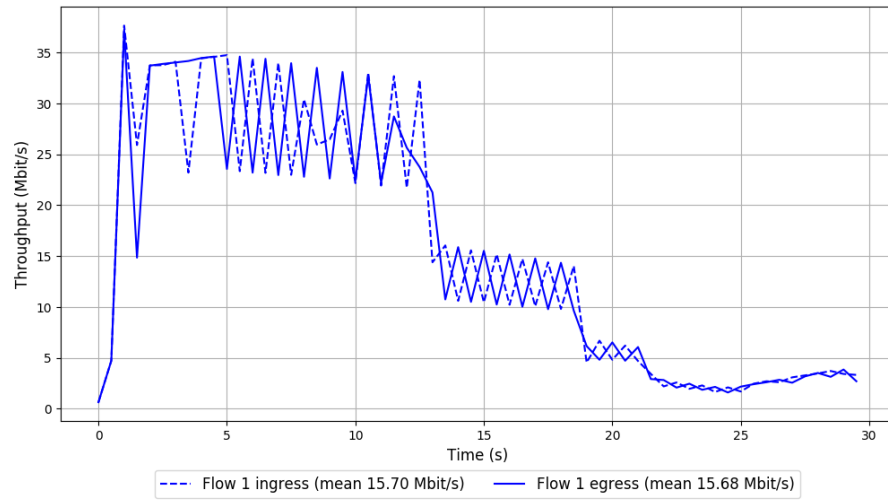
-- Flow 1:

Average throughput: 15.68 Mbit/s

95th percentile per-packet one-way delay: 85.735 ms

Loss rate: 0.67%

Run 10: Report of TCP Vegas — Data Link

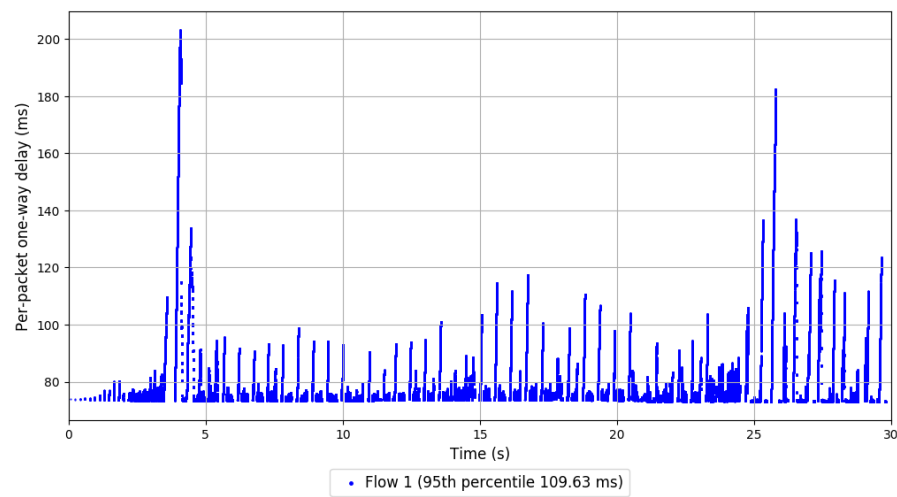
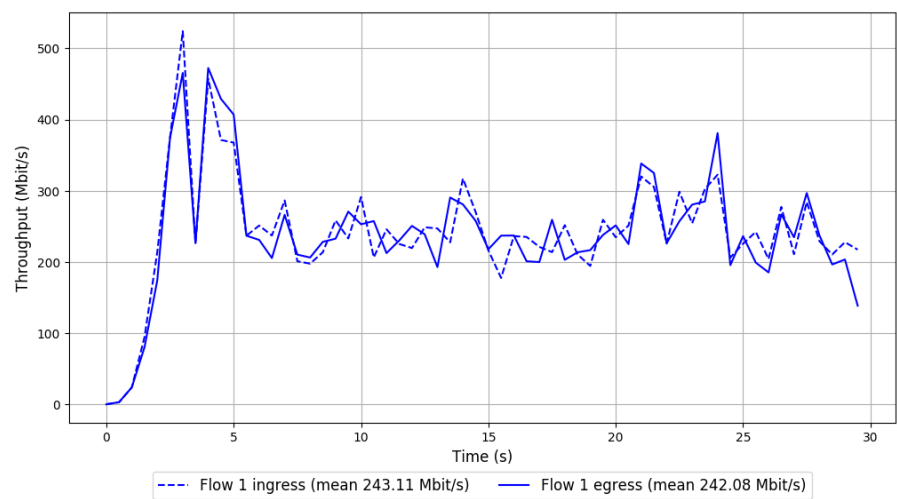


```
Run 1: Statistics of Verus

Start at: 2018-02-12 19:30:15
End at: 2018-02-12 19:30:45

# Below is generated by plot.py at 2018-02-13 01:00:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 242.08 Mbit/s
95th percentile per-packet one-way delay: 109.632 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 242.08 Mbit/s
95th percentile per-packet one-way delay: 109.632 ms
Loss rate: 1.00%
```

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-12 19:45:35

End at: 2018-02-12 19:46:05

Below is generated by plot.py at 2018-02-13 01:00:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.05 Mbit/s

95th percentile per-packet one-way delay: 94.693 ms

Loss rate: 0.69%

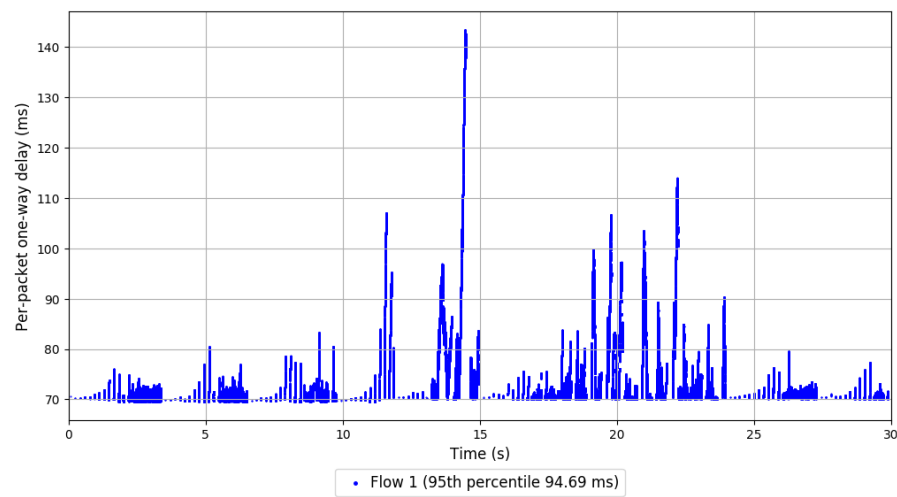
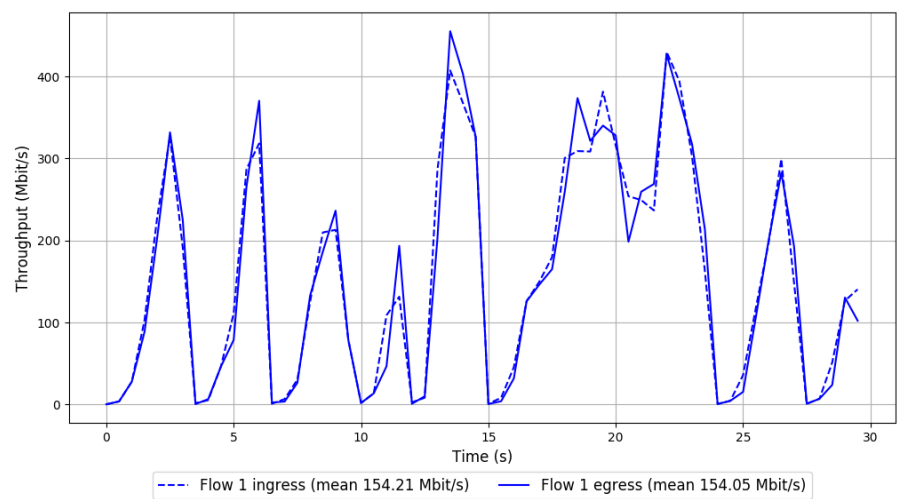
-- Flow 1:

Average throughput: 154.05 Mbit/s

95th percentile per-packet one-way delay: 94.693 ms

Loss rate: 0.69%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-12 20:00:53

End at: 2018-02-12 20:01:23

Below is generated by plot.py at 2018-02-13 01:00:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.27 Mbit/s

95th percentile per-packet one-way delay: 92.214 ms

Loss rate: 1.06%

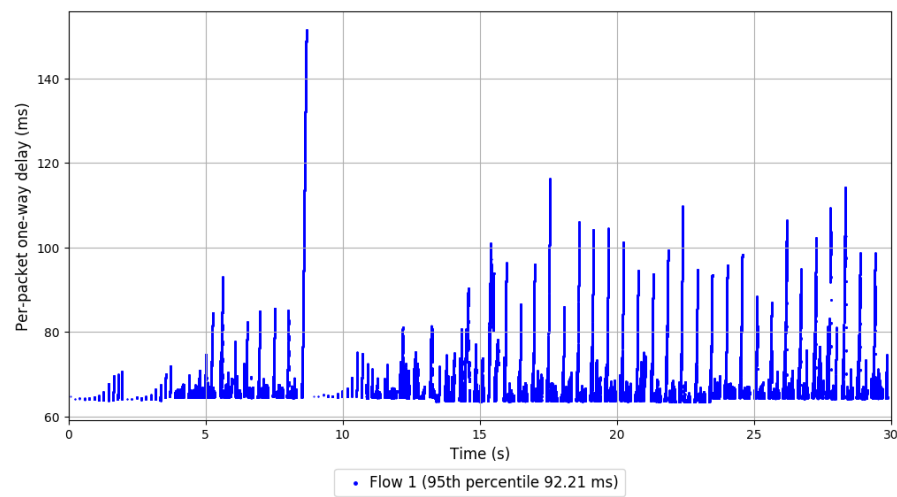
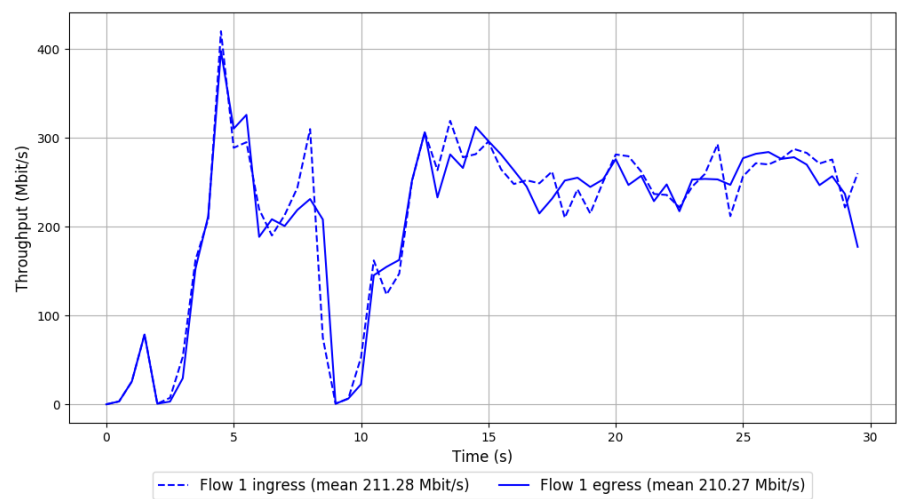
-- Flow 1:

Average throughput: 210.27 Mbit/s

95th percentile per-packet one-way delay: 92.214 ms

Loss rate: 1.06%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-12 20:16:09

End at: 2018-02-12 20:16:39

Below is generated by plot.py at 2018-02-13 01:00:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 244.07 Mbit/s

95th percentile per-packet one-way delay: 87.974 ms

Loss rate: 0.52%

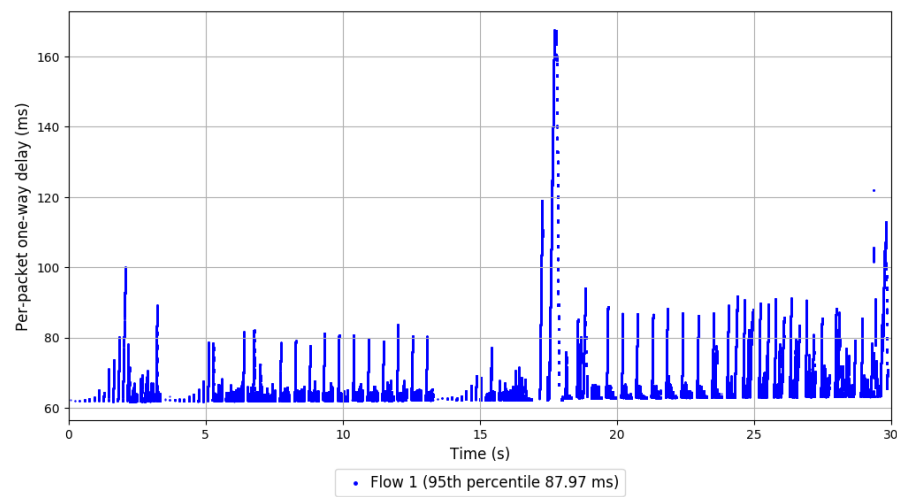
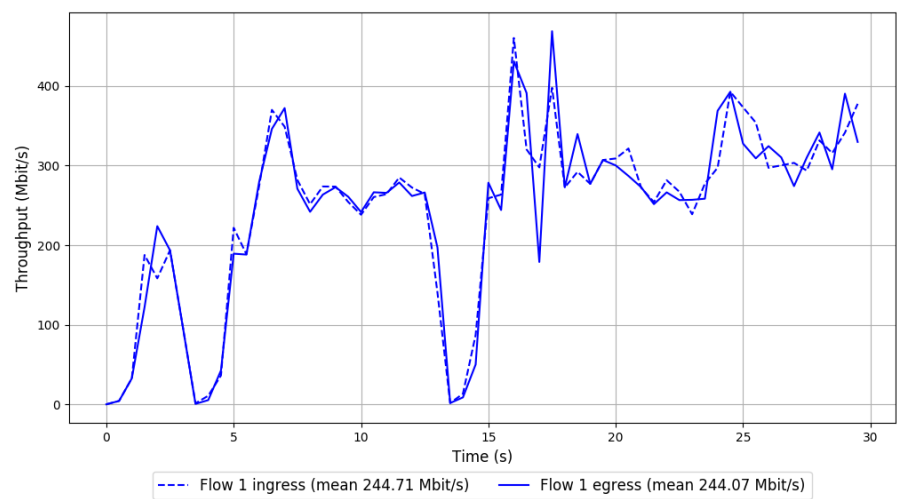
-- Flow 1:

Average throughput: 244.07 Mbit/s

95th percentile per-packet one-way delay: 87.974 ms

Loss rate: 0.52%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-12 20:31:42

End at: 2018-02-12 20:32:12

Below is generated by plot.py at 2018-02-13 01:01:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.97 Mbit/s

95th percentile per-packet one-way delay: 151.018 ms

Loss rate: 1.80%

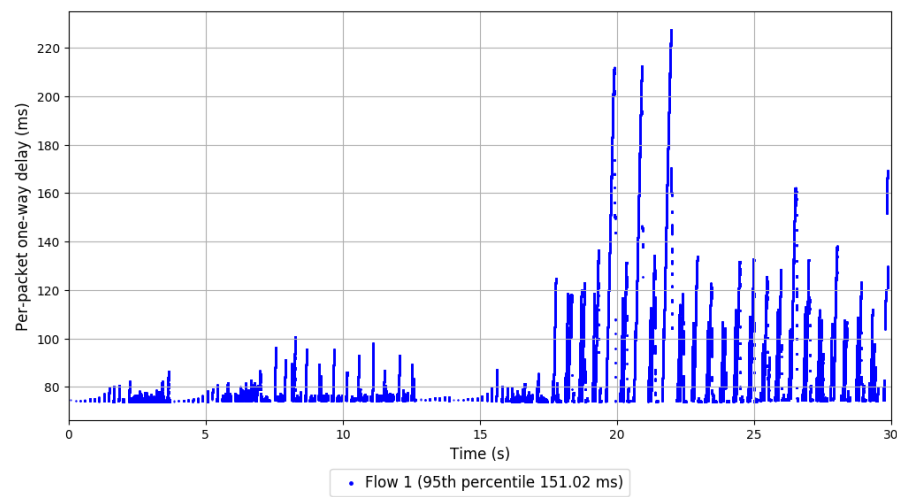
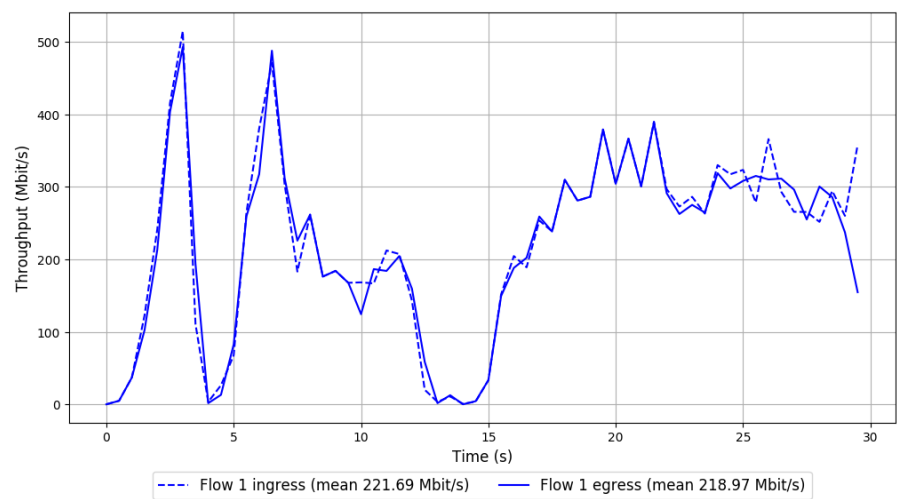
-- Flow 1:

Average throughput: 218.97 Mbit/s

95th percentile per-packet one-way delay: 151.018 ms

Loss rate: 1.80%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-12 20:47:08

End at: 2018-02-12 20:47:38

Below is generated by plot.py at 2018-02-13 01:01:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.71 Mbit/s

95th percentile per-packet one-way delay: 106.767 ms

Loss rate: 0.49%

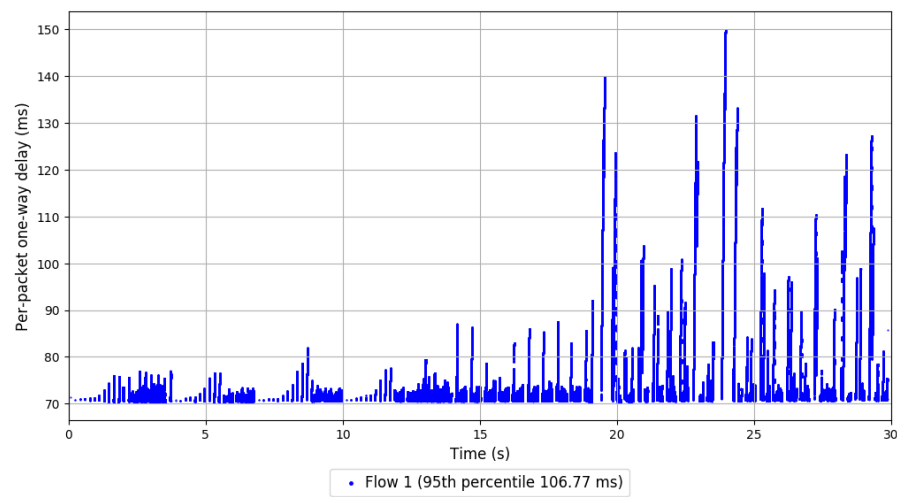
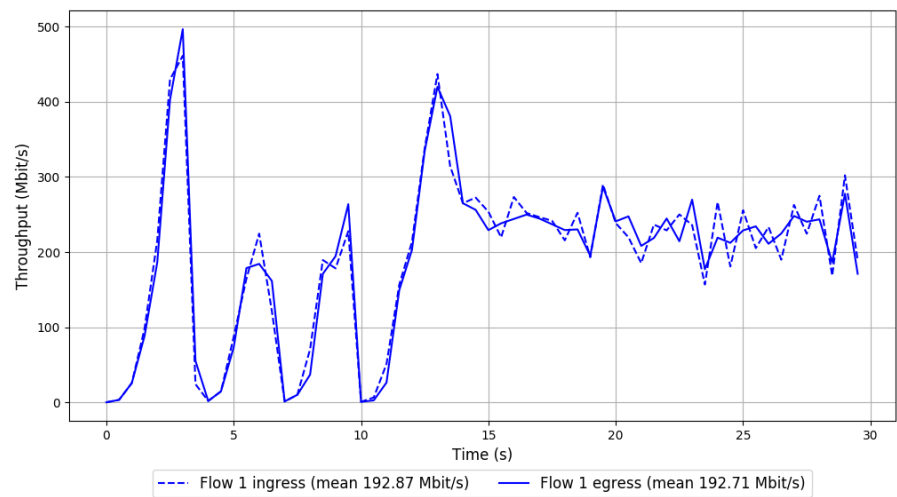
-- Flow 1:

Average throughput: 192.71 Mbit/s

95th percentile per-packet one-way delay: 106.767 ms

Loss rate: 0.49%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-12 21:02:26

End at: 2018-02-12 21:02:56

Below is generated by plot.py at 2018-02-13 01:01:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 166.33 Mbit/s

95th percentile per-packet one-way delay: 93.667 ms

Loss rate: 1.05%

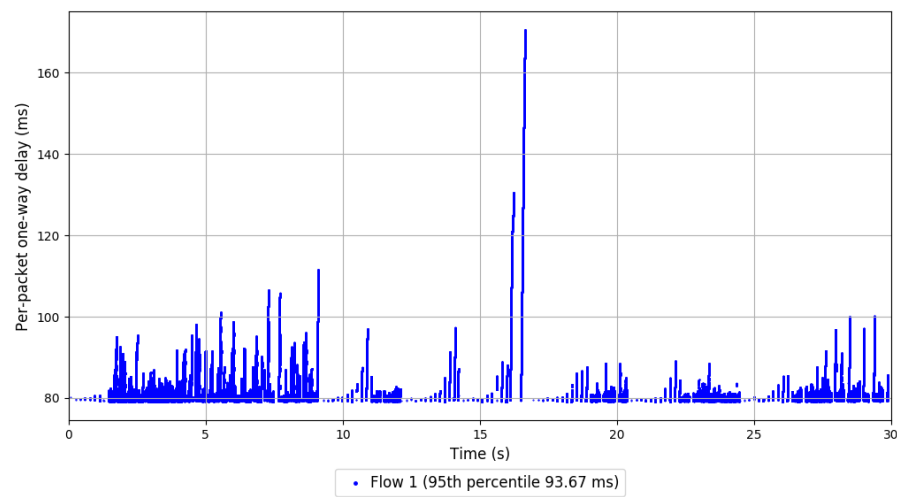
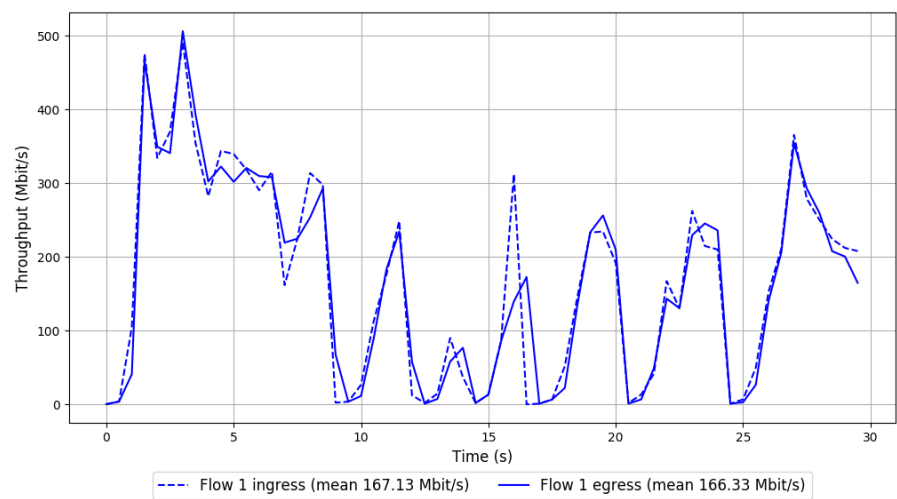
-- Flow 1:

Average throughput: 166.33 Mbit/s

95th percentile per-packet one-way delay: 93.667 ms

Loss rate: 1.05%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-12 21:17:54

End at: 2018-02-12 21:18:24

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.67 Mbit/s

95th percentile per-packet one-way delay: 87.078 ms

Loss rate: 1.07%

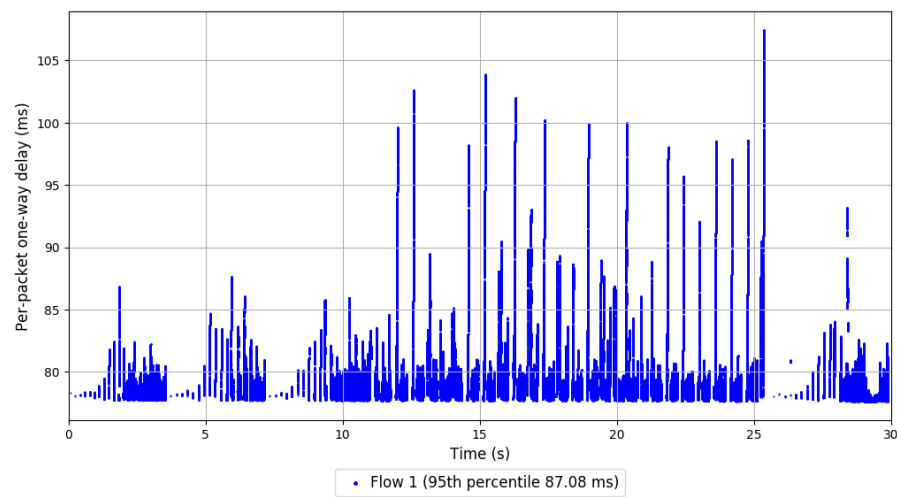
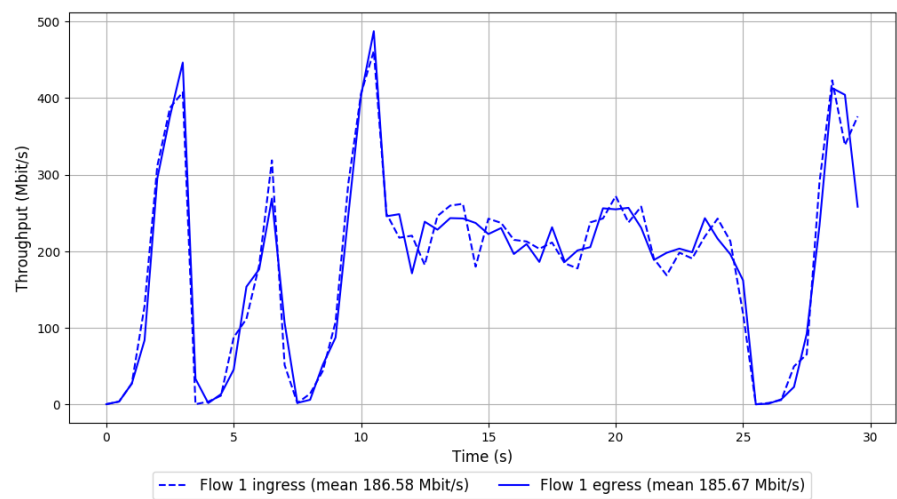
-- Flow 1:

Average throughput: 185.67 Mbit/s

95th percentile per-packet one-way delay: 87.078 ms

Loss rate: 1.07%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-12 21:33:19

End at: 2018-02-12 21:33:49

Below is generated by plot.py at 2018-02-13 01:03:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.95 Mbit/s

95th percentile per-packet one-way delay: 106.401 ms

Loss rate: 0.53%

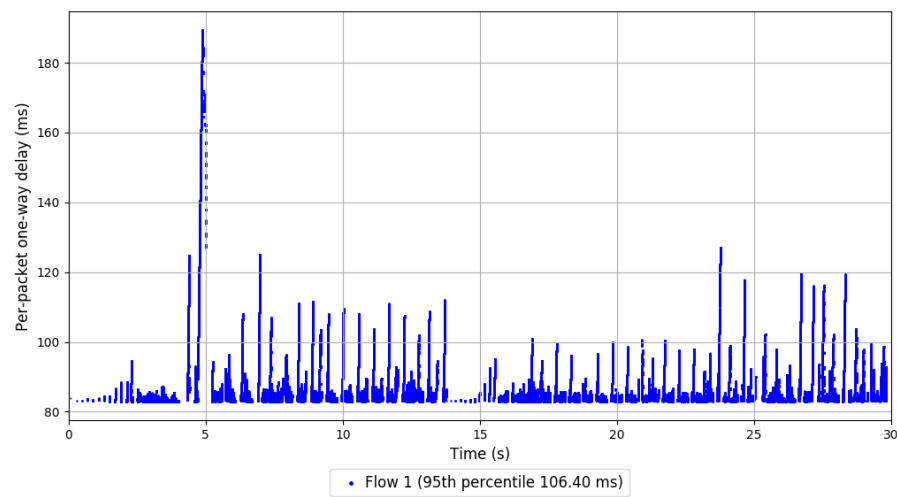
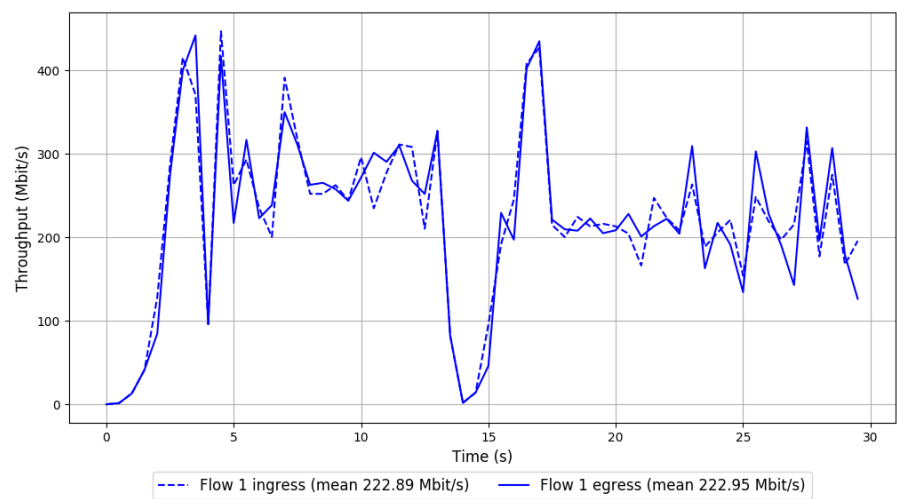
-- Flow 1:

Average throughput: 222.95 Mbit/s

95th percentile per-packet one-way delay: 106.401 ms

Loss rate: 0.53%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-12 21:48:23

End at: 2018-02-12 21:48:53

Below is generated by plot.py at 2018-02-13 01:03:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.53 Mbit/s

95th percentile per-packet one-way delay: 100.938 ms

Loss rate: 0.60%

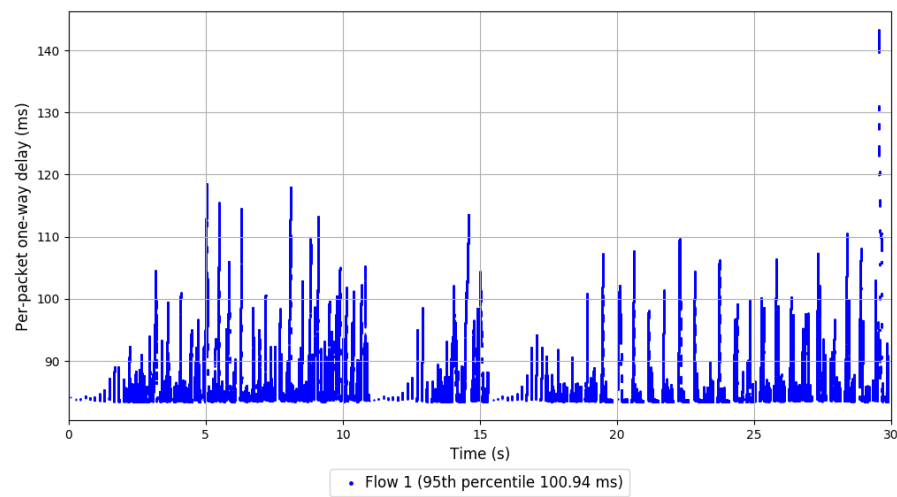
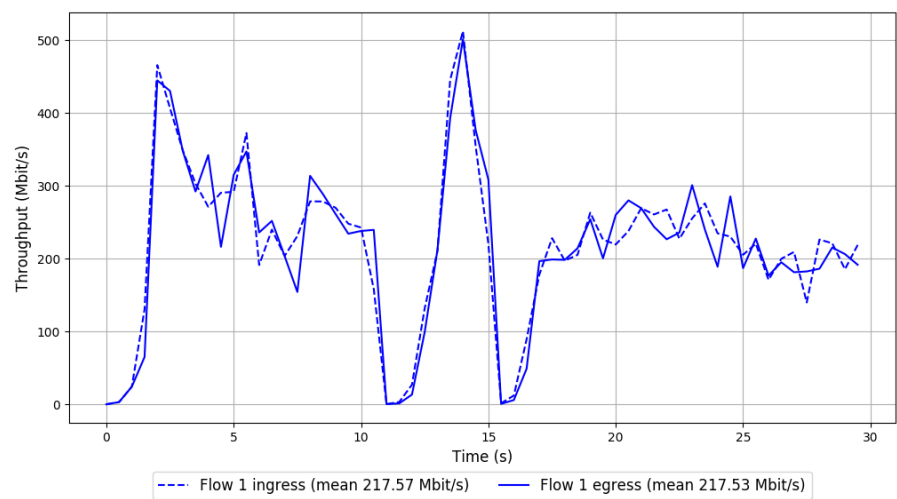
-- Flow 1:

Average throughput: 217.53 Mbit/s

95th percentile per-packet one-way delay: 100.938 ms

Loss rate: 0.60%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-02-12 19:22:40

End at: 2018-02-12 19:23:11

Below is generated by plot.py at 2018-02-13 01:03:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.05 Mbit/s

95th percentile per-packet one-way delay: 73.925 ms

Loss rate: 0.56%

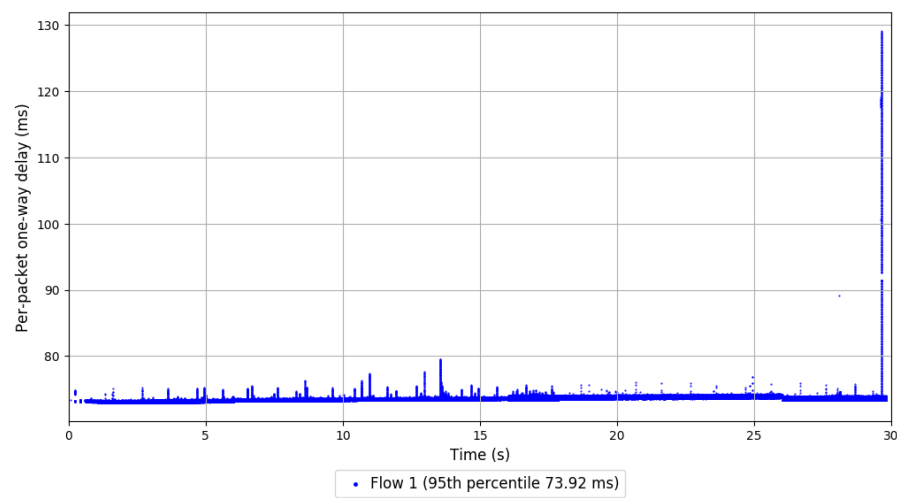
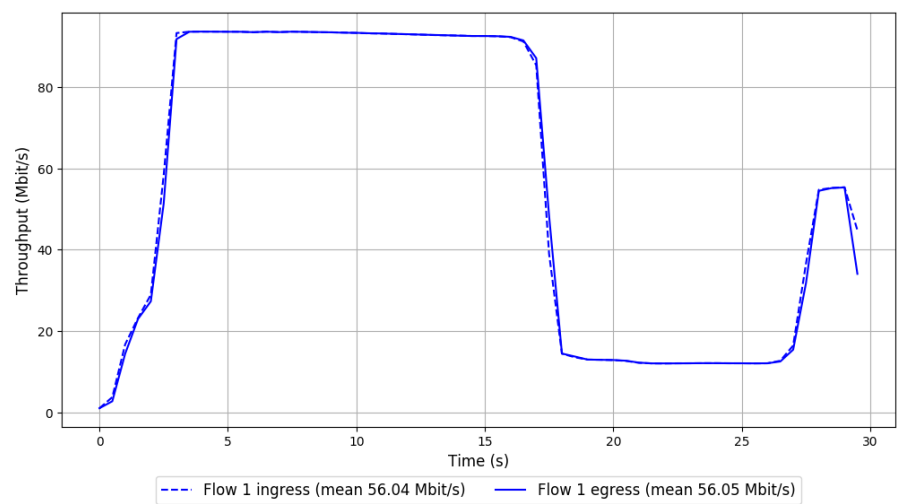
-- Flow 1:

Average throughput: 56.05 Mbit/s

95th percentile per-packet one-way delay: 73.925 ms

Loss rate: 0.56%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-12 19:37:55

End at: 2018-02-12 19:38:26

Below is generated by plot.py at 2018-02-13 01:03:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.77 Mbit/s

95th percentile per-packet one-way delay: 66.220 ms

Loss rate: 1.14%

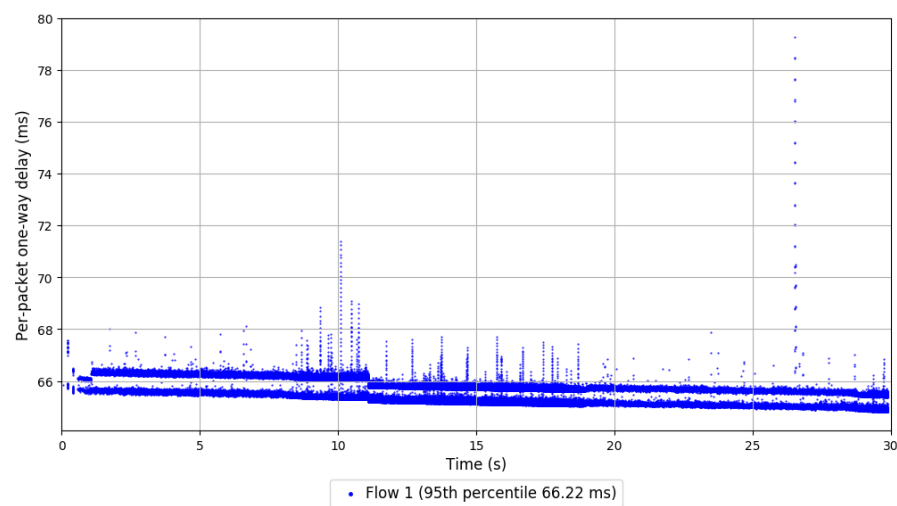
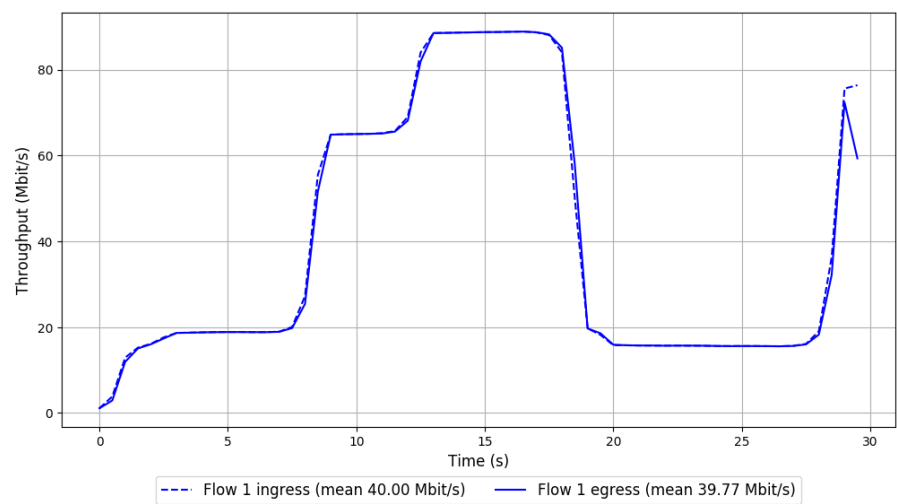
-- Flow 1:

Average throughput: 39.77 Mbit/s

95th percentile per-packet one-way delay: 66.220 ms

Loss rate: 1.14%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-12 19:53:15

End at: 2018-02-12 19:53:45

Below is generated by plot.py at 2018-02-13 01:03:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.43 Mbit/s

95th percentile per-packet one-way delay: 69.341 ms

Loss rate: 0.49%

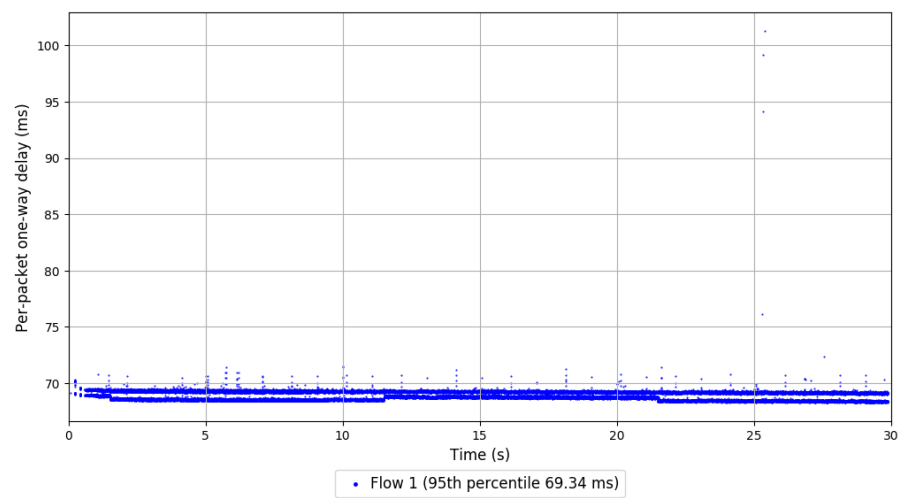
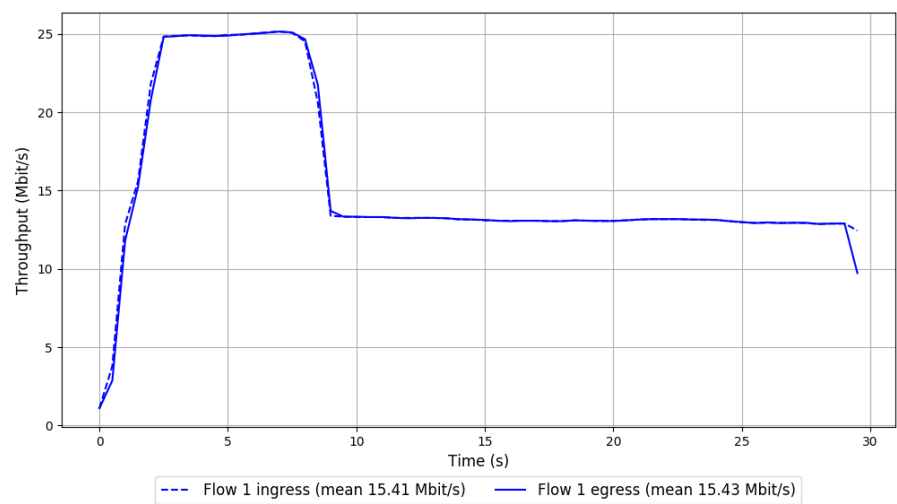
-- Flow 1:

Average throughput: 15.43 Mbit/s

95th percentile per-packet one-way delay: 69.341 ms

Loss rate: 0.49%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-12 20:08:35

End at: 2018-02-12 20:09:05

Below is generated by plot.py at 2018-02-13 01:03:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.45 Mbit/s

95th percentile per-packet one-way delay: 58.061 ms

Loss rate: 0.63%

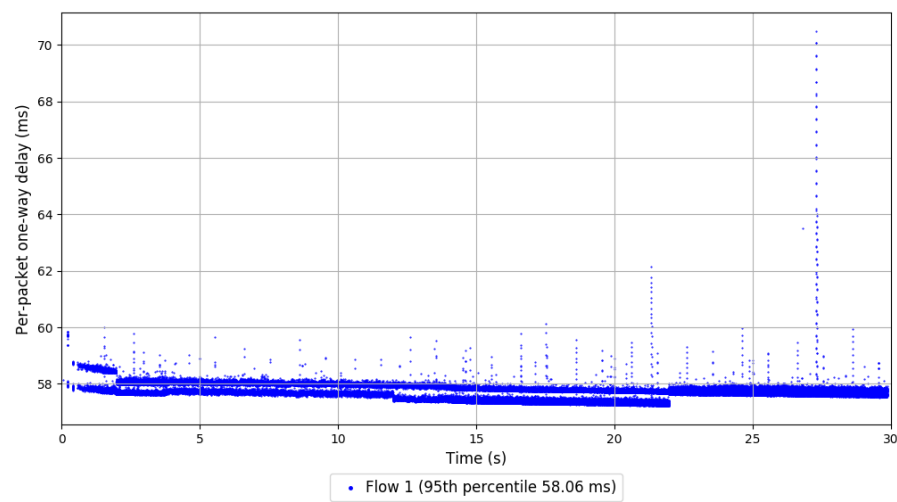
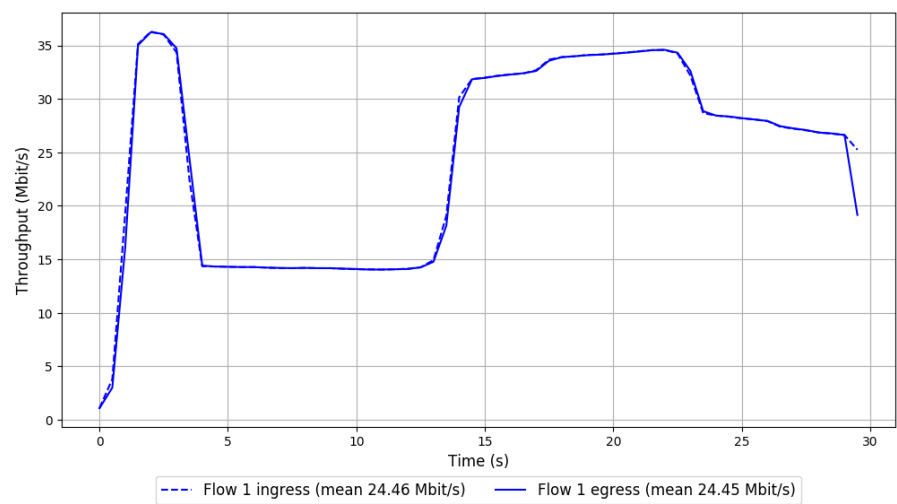
-- Flow 1:

Average throughput: 24.45 Mbit/s

95th percentile per-packet one-way delay: 58.061 ms

Loss rate: 0.63%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-12 20:24:01

End at: 2018-02-12 20:24:31

Below is generated by plot.py at 2018-02-13 01:03:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.18 Mbit/s

95th percentile per-packet one-way delay: 72.816 ms

Loss rate: 0.15%

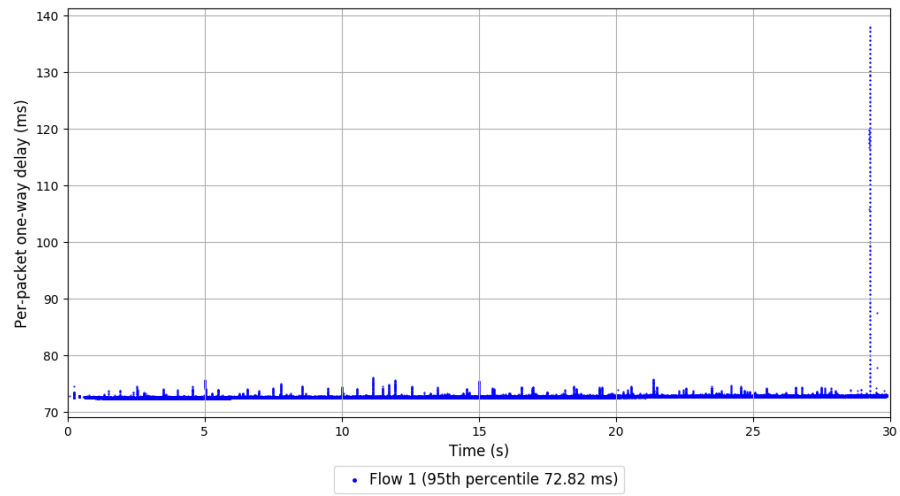
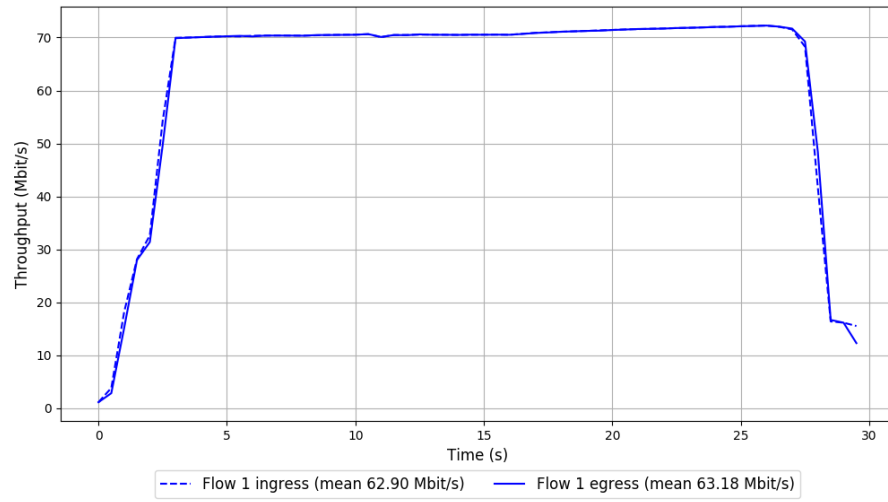
-- Flow 1:

Average throughput: 63.18 Mbit/s

95th percentile per-packet one-way delay: 72.816 ms

Loss rate: 0.15%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-12 20:39:27

End at: 2018-02-12 20:39:57

Below is generated by plot.py at 2018-02-13 01:03:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.99 Mbit/s

95th percentile per-packet one-way delay: 73.680 ms

Loss rate: 0.62%

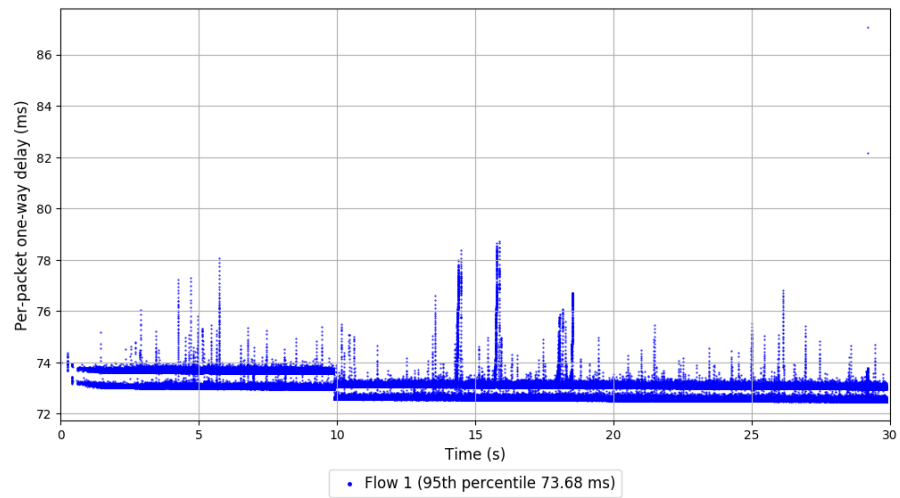
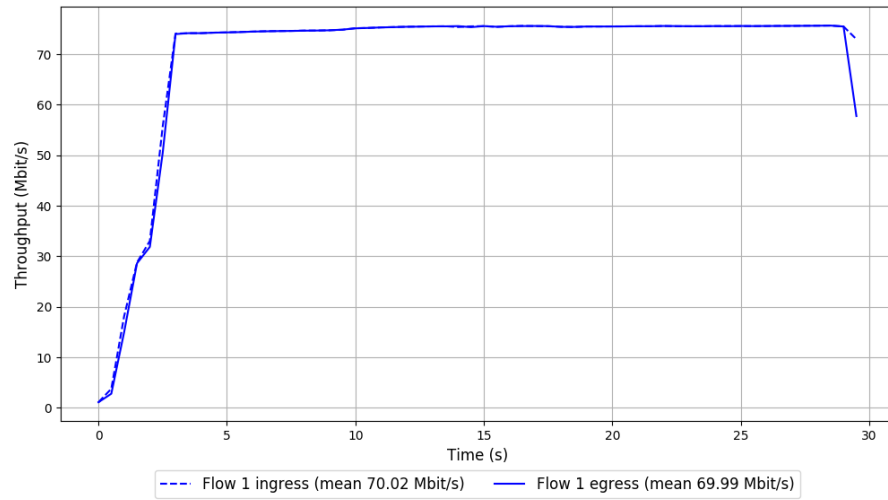
-- Flow 1:

Average throughput: 69.99 Mbit/s

95th percentile per-packet one-way delay: 73.680 ms

Loss rate: 0.62%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-12 20:54:46

End at: 2018-02-12 20:55:16

Below is generated by plot.py at 2018-02-13 01:03:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.46 Mbit/s

95th percentile per-packet one-way delay: 77.850 ms

Loss rate: 0.67%

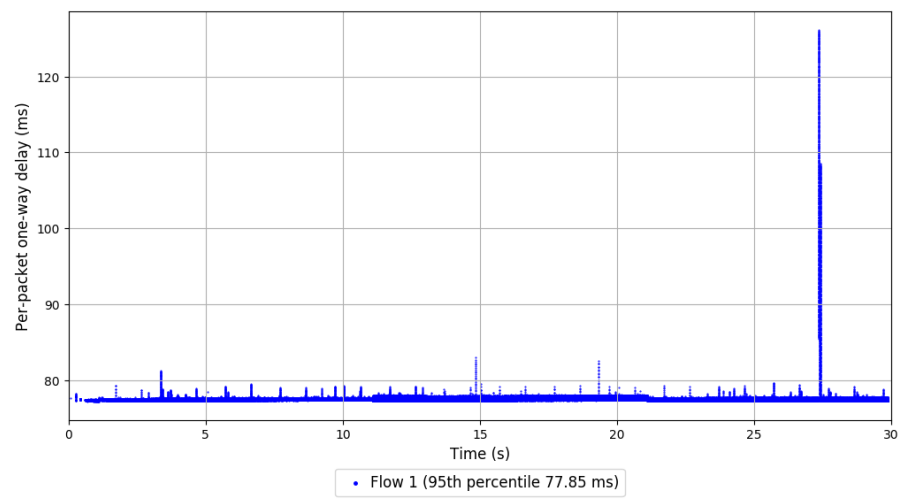
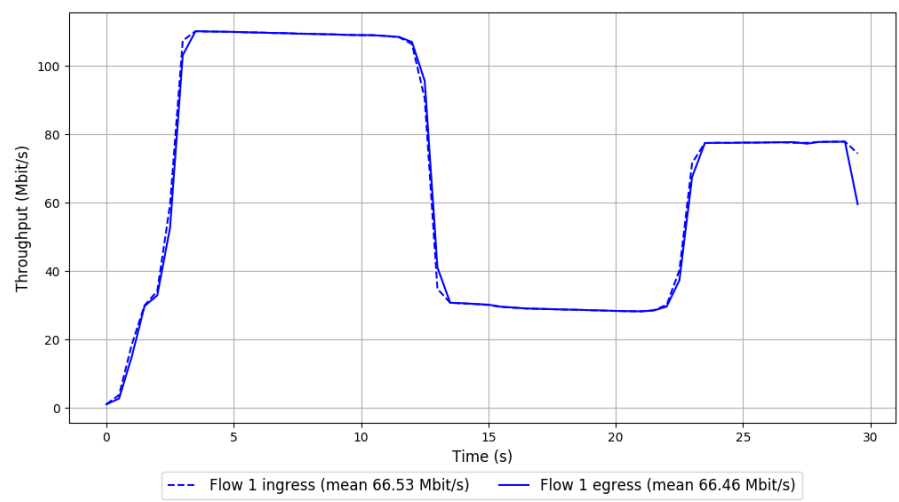
-- Flow 1:

Average throughput: 66.46 Mbit/s

95th percentile per-packet one-way delay: 77.850 ms

Loss rate: 0.67%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-12 21:10:14

End at: 2018-02-12 21:10:44

Below is generated by plot.py at 2018-02-13 01:04:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.37 Mbit/s

95th percentile per-packet one-way delay: 79.028 ms

Loss rate: 0.45%

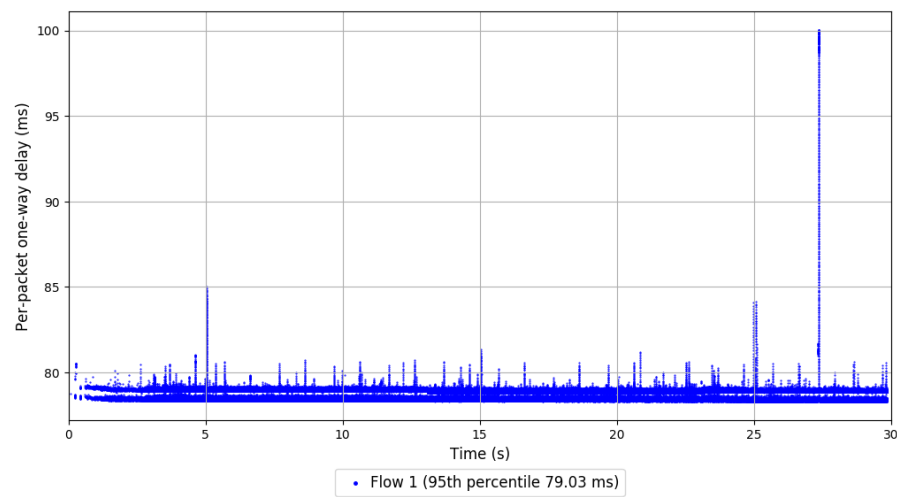
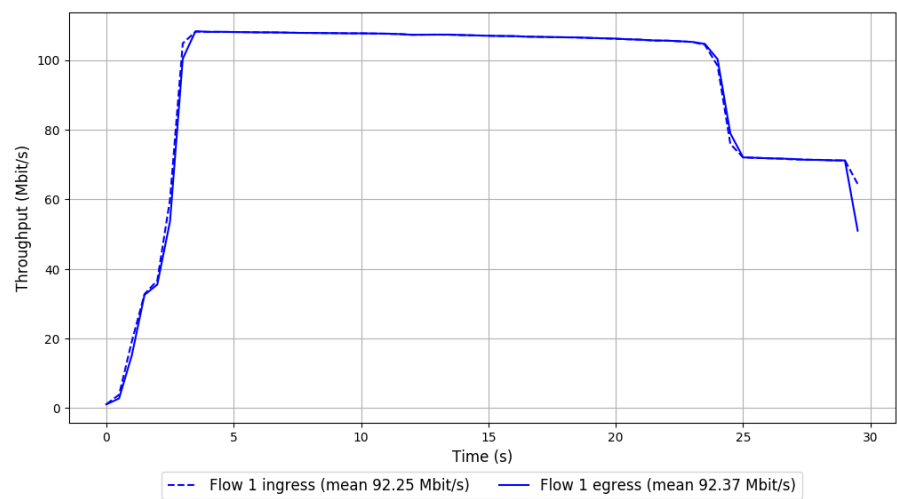
-- Flow 1:

Average throughput: 92.37 Mbit/s

95th percentile per-packet one-way delay: 79.028 ms

Loss rate: 0.45%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-12 21:25:44

End at: 2018-02-12 21:26:14

Below is generated by plot.py at 2018-02-13 01:04:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.05 Mbit/s

95th percentile per-packet one-way delay: 80.756 ms

Loss rate: 0.81%

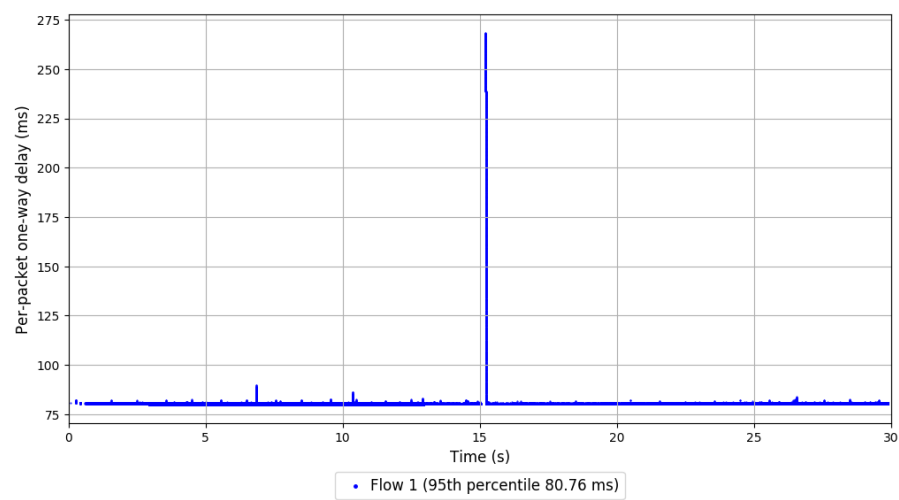
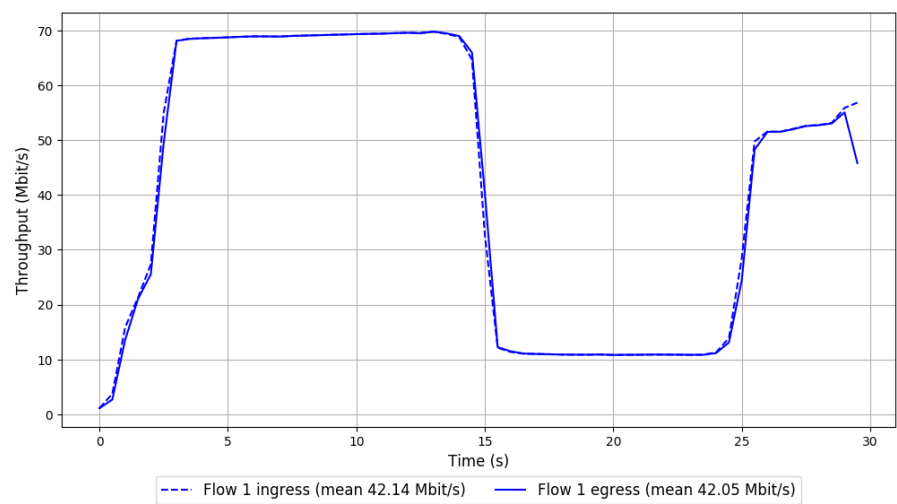
-- Flow 1:

Average throughput: 42.05 Mbit/s

95th percentile per-packet one-way delay: 80.756 ms

Loss rate: 0.81%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-12 21:40:56

End at: 2018-02-12 21:41:26

Below is generated by plot.py at 2018-02-13 01:04:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.19 Mbit/s

95th percentile per-packet one-way delay: 83.739 ms

Loss rate: 0.01%

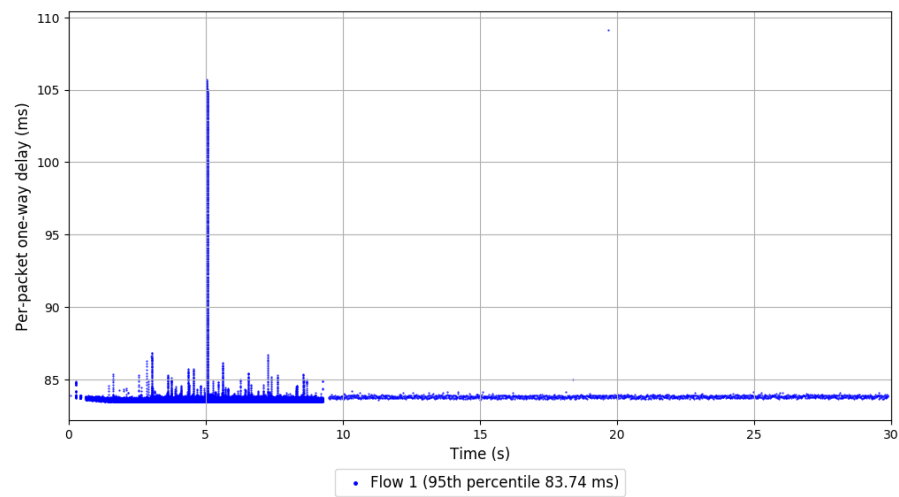
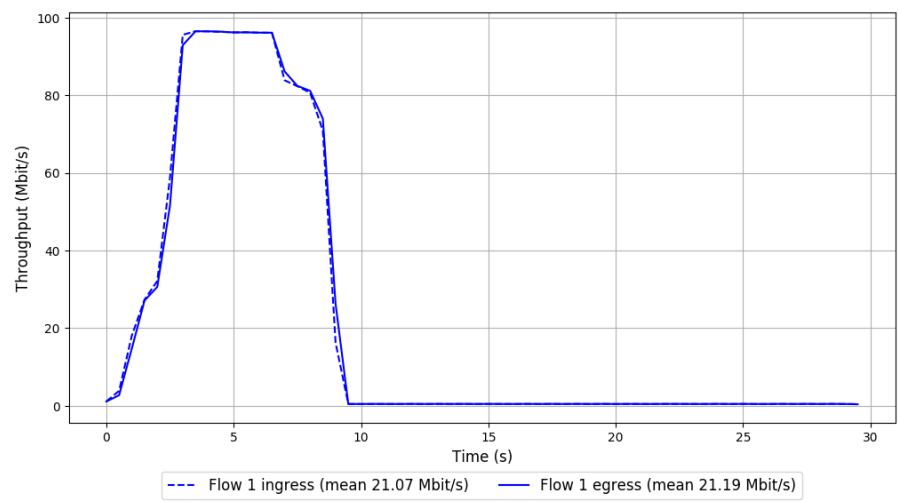
-- Flow 1:

Average throughput: 21.19 Mbit/s

95th percentile per-packet one-way delay: 83.739 ms

Loss rate: 0.01%

Run 10: Report of Copa — Data Link

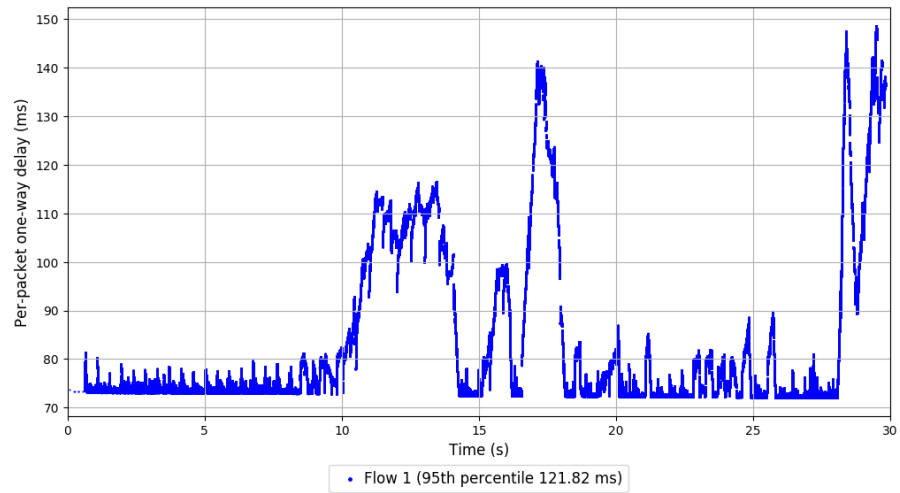
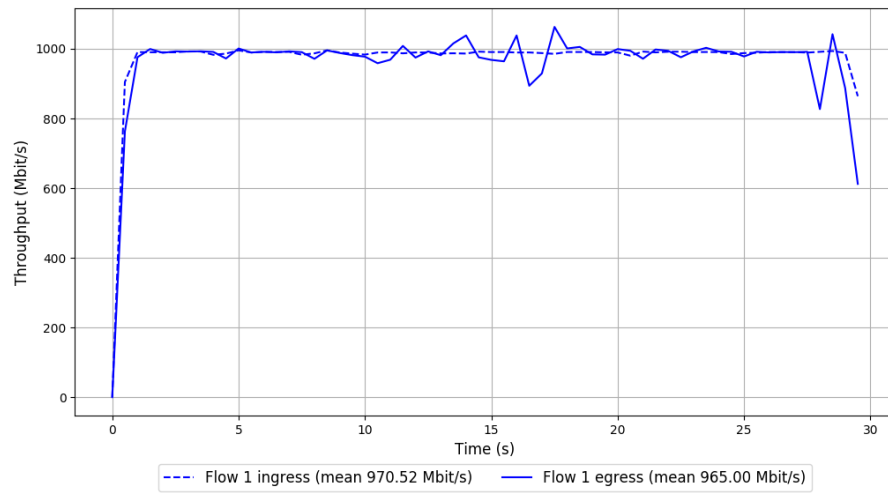


```
Run 1: Statistics of FillP

Start at: 2018-02-12 19:21:27
End at: 2018-02-12 19:21:57

# Below is generated by plot.py at 2018-02-13 01:18:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 965.00 Mbit/s
95th percentile per-packet one-way delay: 121.824 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 965.00 Mbit/s
95th percentile per-packet one-way delay: 121.824 ms
Loss rate: 1.15%
```

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-12 19:36:40

End at: 2018-02-12 19:37:10

Below is generated by plot.py at 2018-02-13 01:18:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 959.74 Mbit/s

95th percentile per-packet one-way delay: 119.057 ms

Loss rate: 1.27%

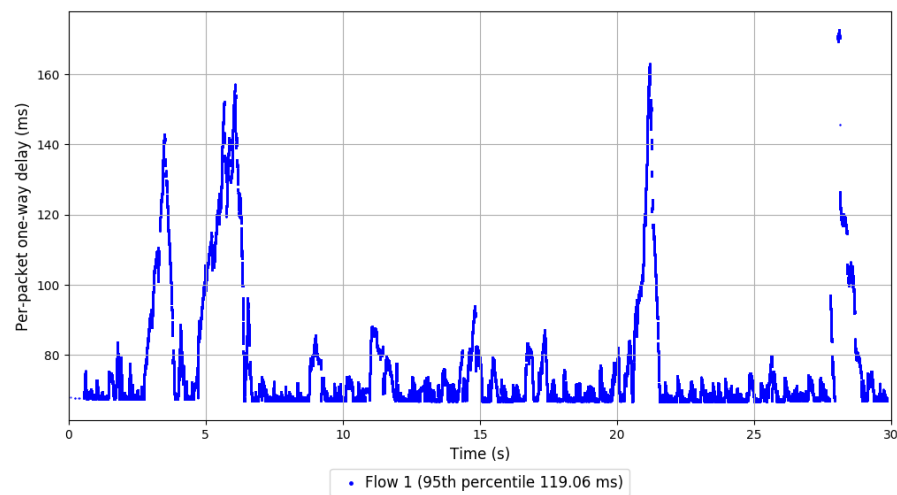
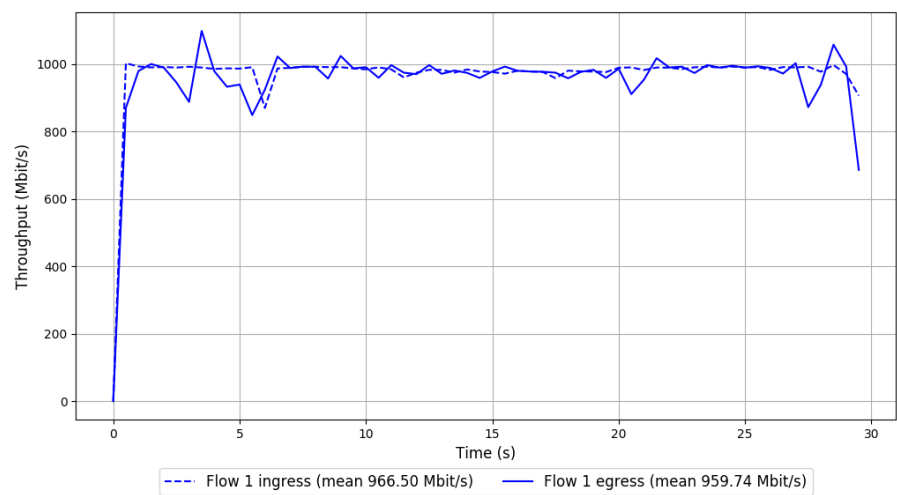
-- Flow 1:

Average throughput: 959.74 Mbit/s

95th percentile per-packet one-way delay: 119.057 ms

Loss rate: 1.27%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-12 19:52:01

End at: 2018-02-12 19:52:31

Below is generated by plot.py at 2018-02-13 01:18:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 966.27 Mbit/s

95th percentile per-packet one-way delay: 74.549 ms

Loss rate: 0.60%

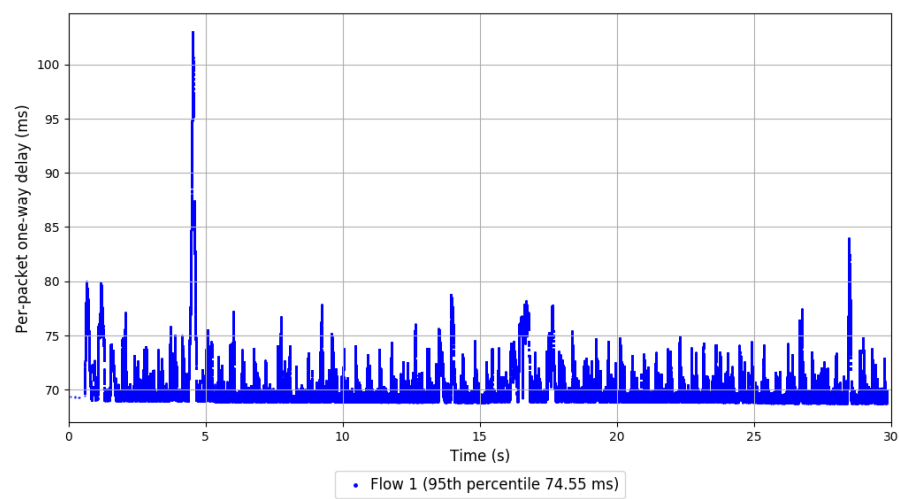
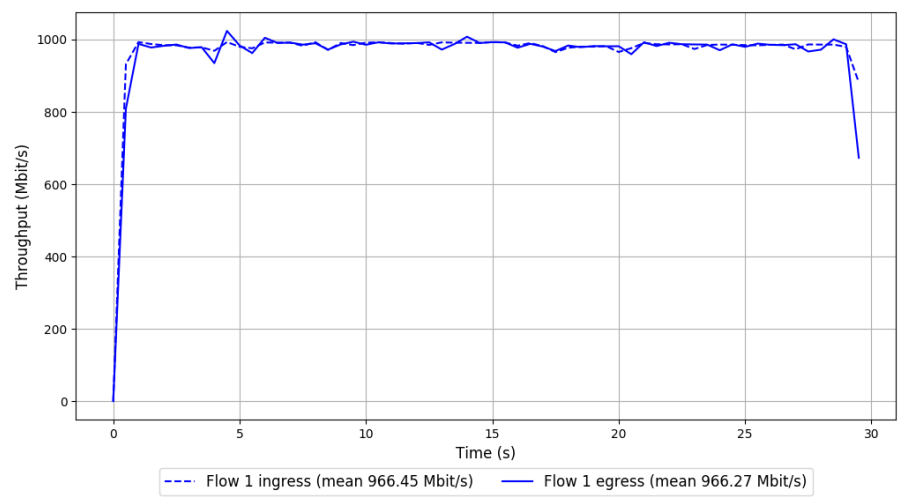
-- Flow 1:

Average throughput: 966.27 Mbit/s

95th percentile per-packet one-way delay: 74.549 ms

Loss rate: 0.60%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-12 20:07:21

End at: 2018-02-12 20:07:51

Below is generated by plot.py at 2018-02-13 01:18:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 960.58 Mbit/s

95th percentile per-packet one-way delay: 64.586 ms

Loss rate: 0.60%

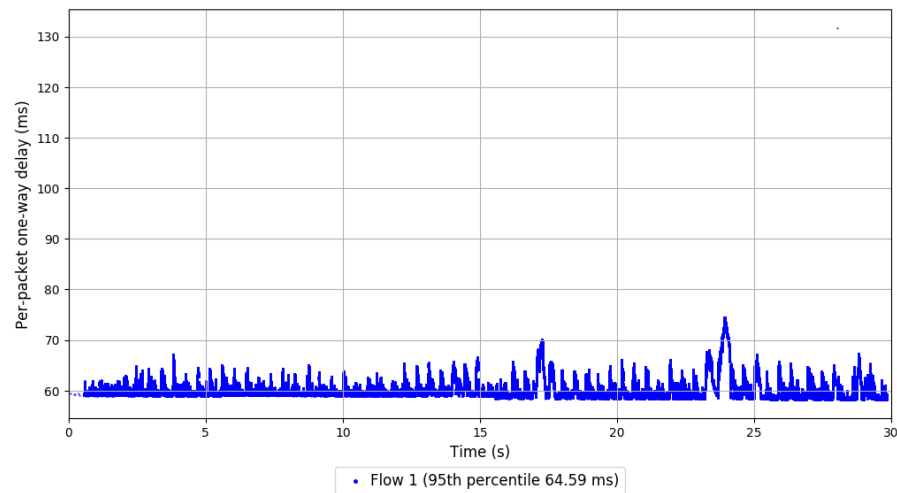
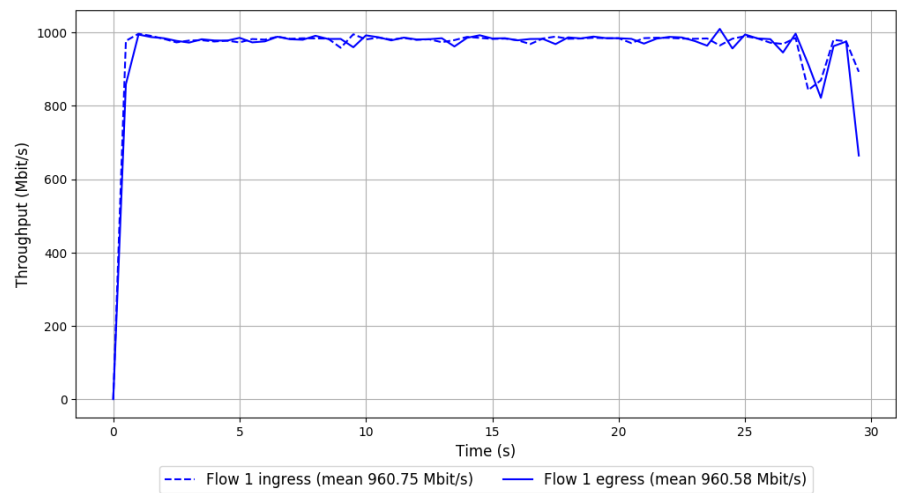
-- Flow 1:

Average throughput: 960.58 Mbit/s

95th percentile per-packet one-way delay: 64.586 ms

Loss rate: 0.60%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-12 20:22:47

End at: 2018-02-12 20:23:17

Below is generated by plot.py at 2018-02-13 01:19:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 979.11 Mbit/s

95th percentile per-packet one-way delay: 74.029 ms

Loss rate: 0.75%

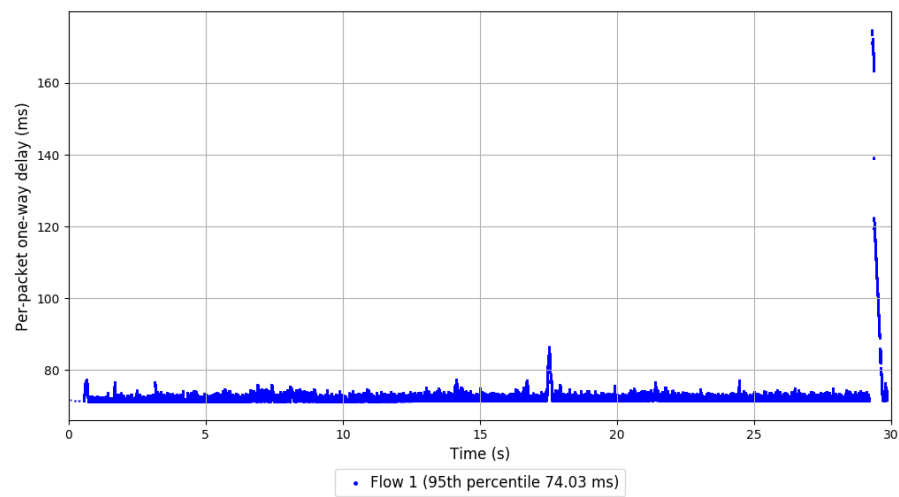
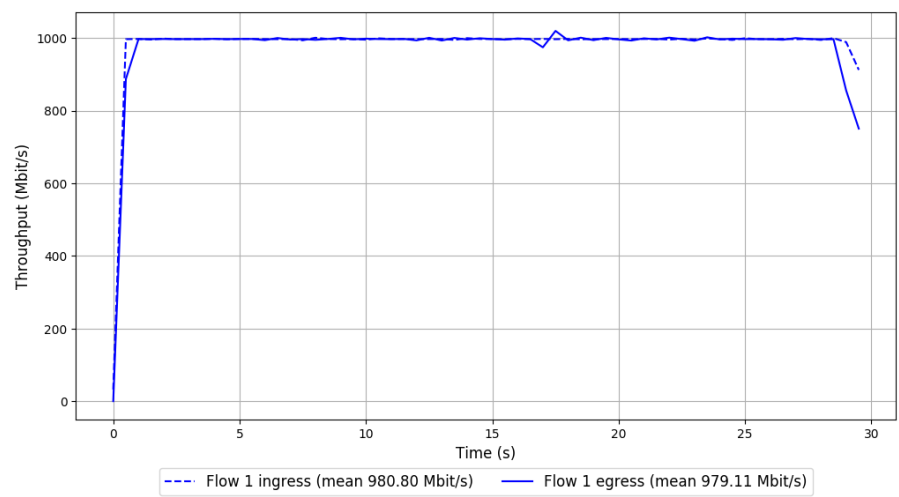
-- Flow 1:

Average throughput: 979.11 Mbit/s

95th percentile per-packet one-way delay: 74.029 ms

Loss rate: 0.75%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-12 20:38:12

End at: 2018-02-12 20:38:42

Below is generated by plot.py at 2018-02-13 01:19:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 978.34 Mbit/s

95th percentile per-packet one-way delay: 122.529 ms

Loss rate: 0.72%

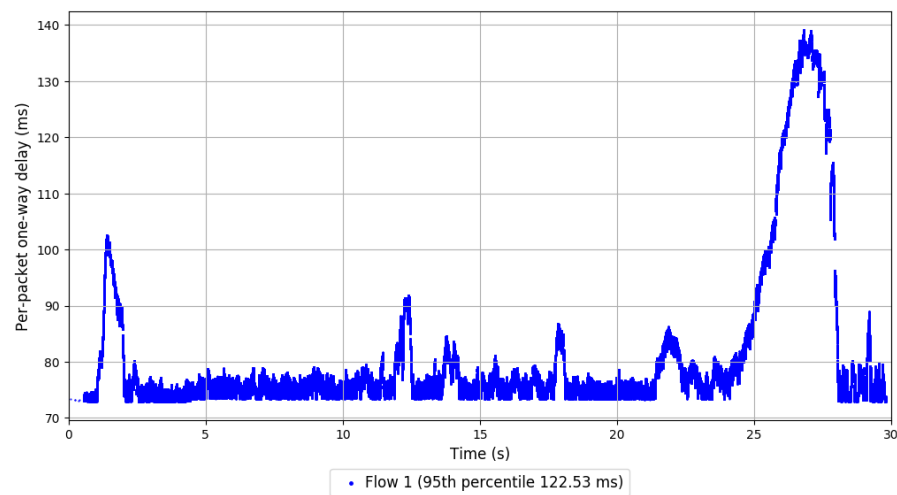
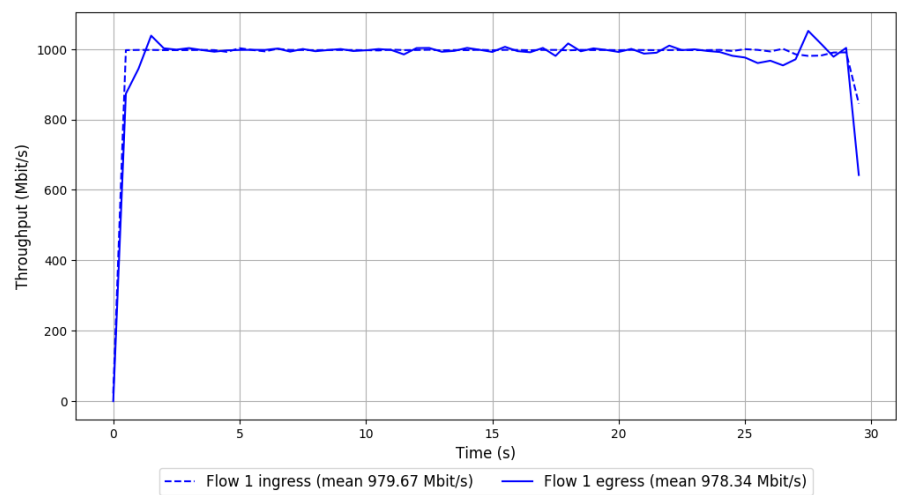
-- Flow 1:

Average throughput: 978.34 Mbit/s

95th percentile per-packet one-way delay: 122.529 ms

Loss rate: 0.72%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-12 20:53:31

End at: 2018-02-12 20:54:01

Below is generated by plot.py at 2018-02-13 01:19:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 961.88 Mbit/s

95th percentile per-packet one-way delay: 92.770 ms

Loss rate: 0.86%

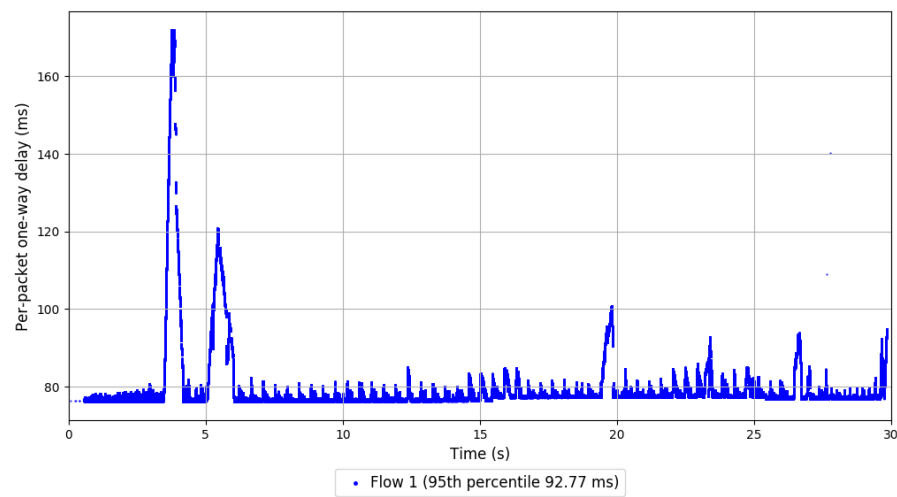
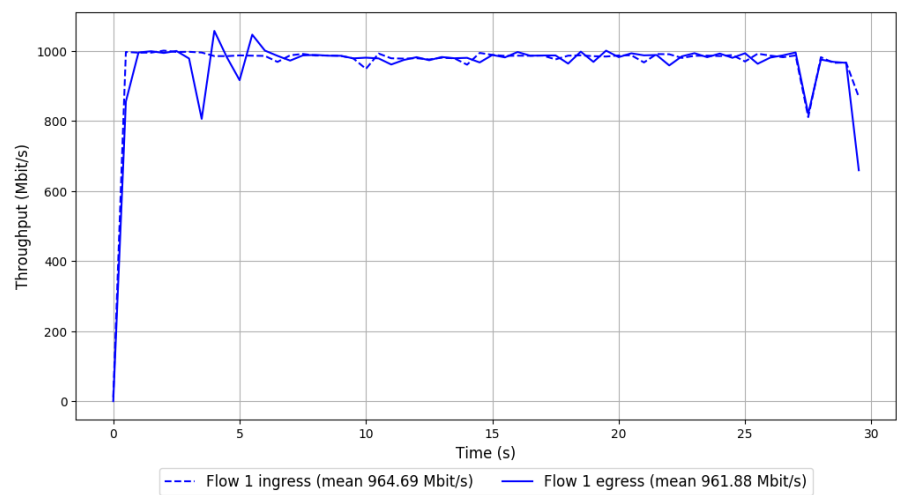
-- Flow 1:

Average throughput: 961.88 Mbit/s

95th percentile per-packet one-way delay: 92.770 ms

Loss rate: 0.86%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-12 21:09:00

End at: 2018-02-12 21:09:30

Below is generated by plot.py at 2018-02-13 01:20:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 968.22 Mbit/s

95th percentile per-packet one-way delay: 89.333 ms

Loss rate: 0.63%

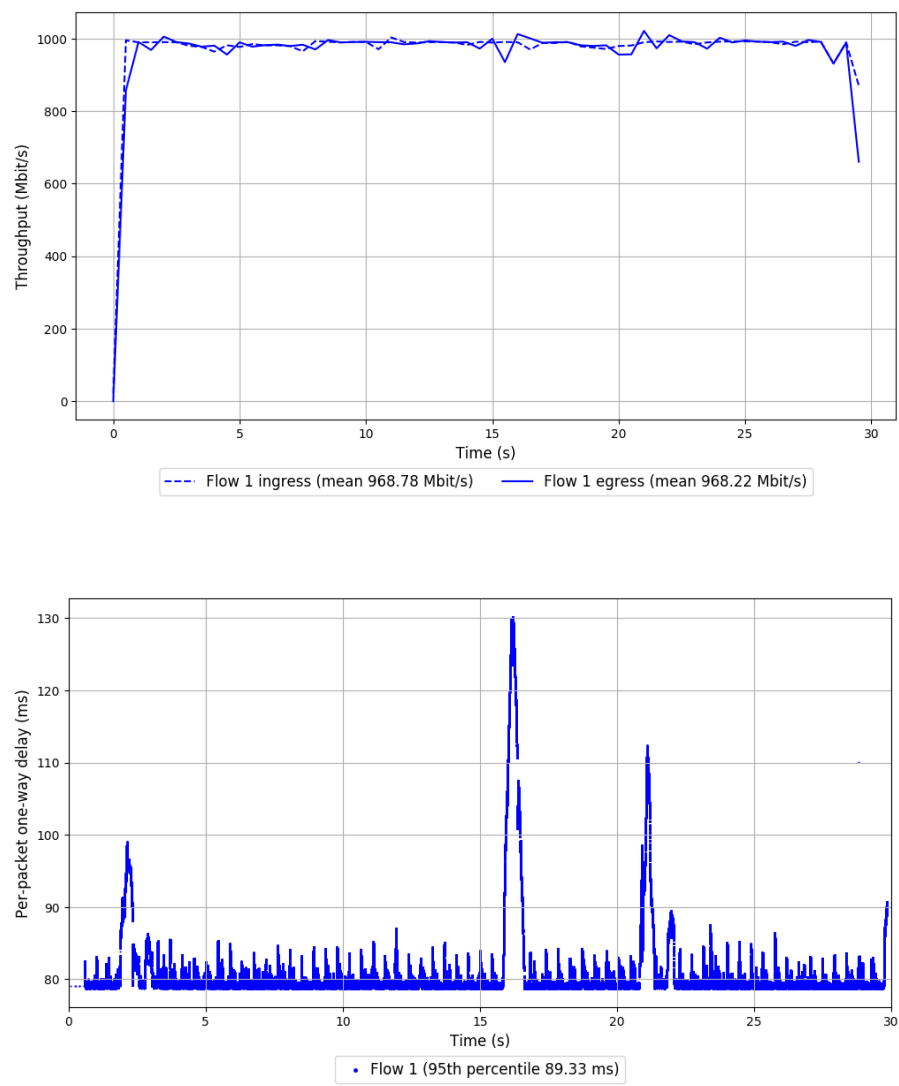
-- Flow 1:

Average throughput: 968.22 Mbit/s

95th percentile per-packet one-way delay: 89.333 ms

Loss rate: 0.63%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-12 21:24:30

End at: 2018-02-12 21:25:00

Below is generated by plot.py at 2018-02-13 01:34:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 967.10 Mbit/s

95th percentile per-packet one-way delay: 120.780 ms

Loss rate: 0.70%

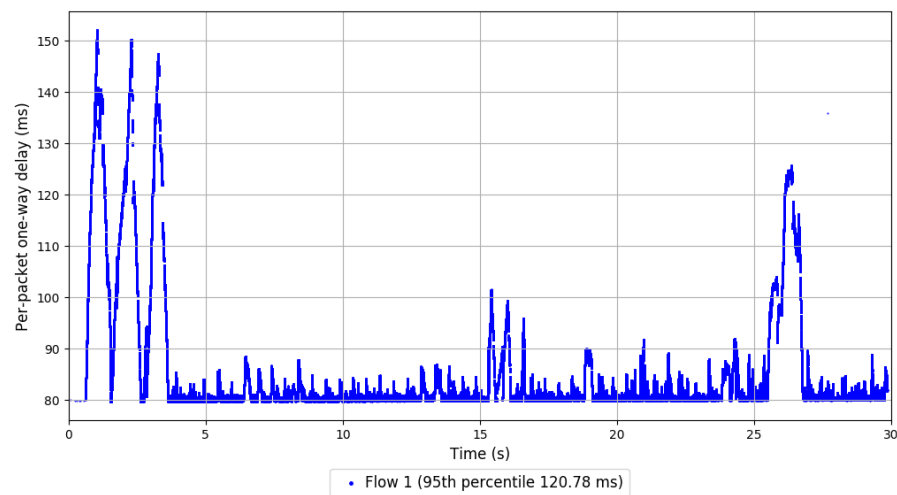
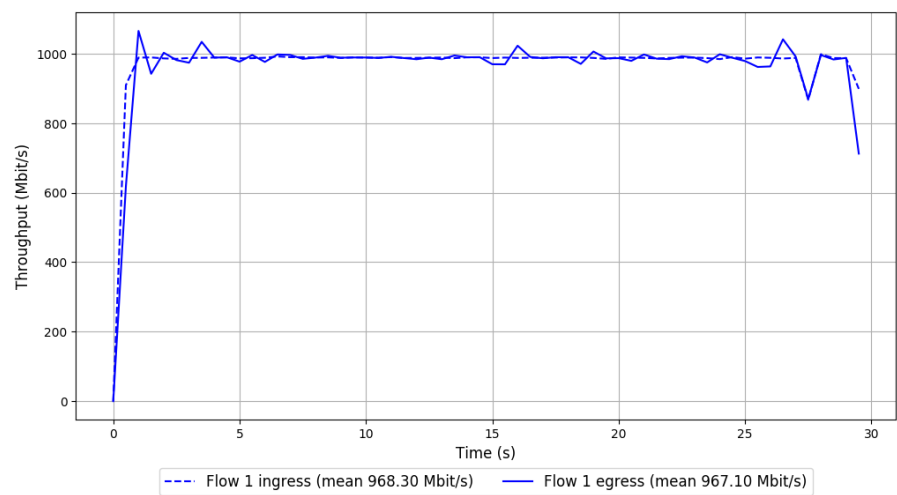
-- Flow 1:

Average throughput: 967.10 Mbit/s

95th percentile per-packet one-way delay: 120.780 ms

Loss rate: 0.70%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-12 21:39:42

End at: 2018-02-12 21:40:12

Below is generated by plot.py at 2018-02-13 01:34:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 964.46 Mbit/s

95th percentile per-packet one-way delay: 98.600 ms

Loss rate: 0.58%

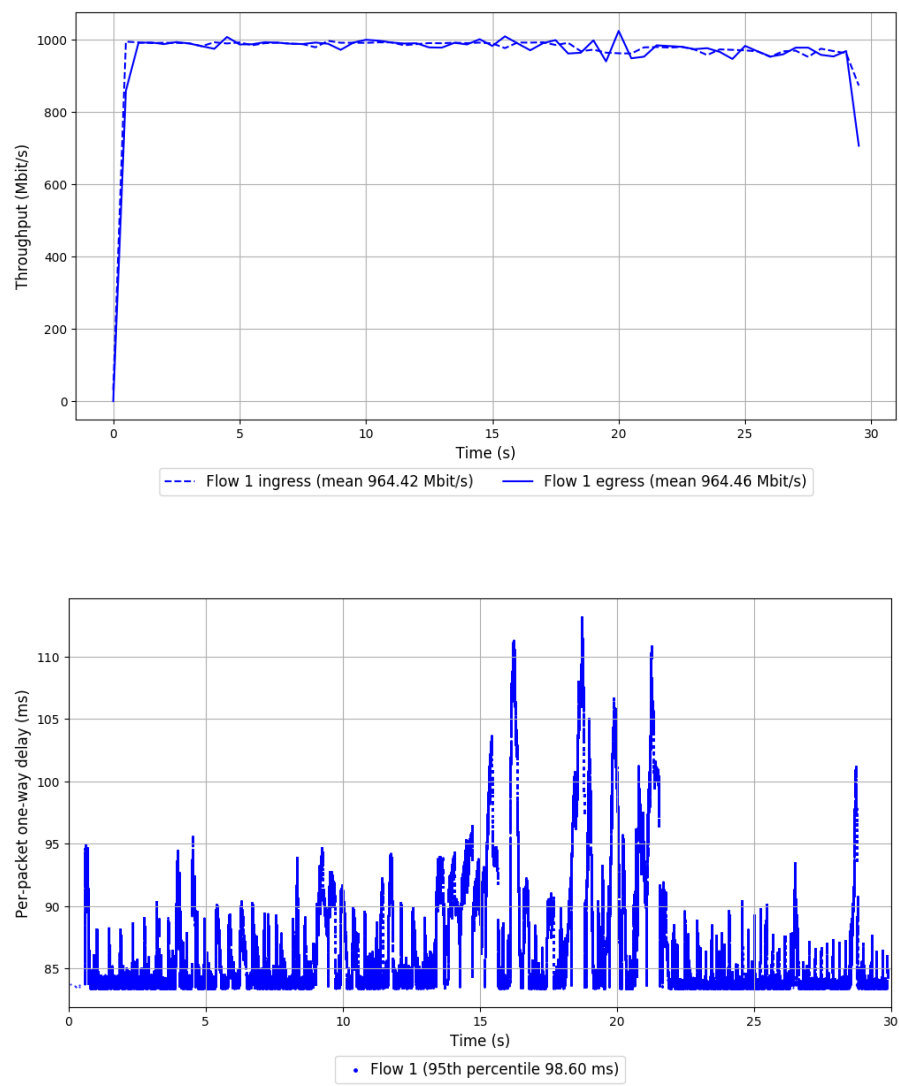
-- Flow 1:

Average throughput: 964.46 Mbit/s

95th percentile per-packet one-way delay: 98.600 ms

Loss rate: 0.58%

Run 10: Report of FillP — Data Link

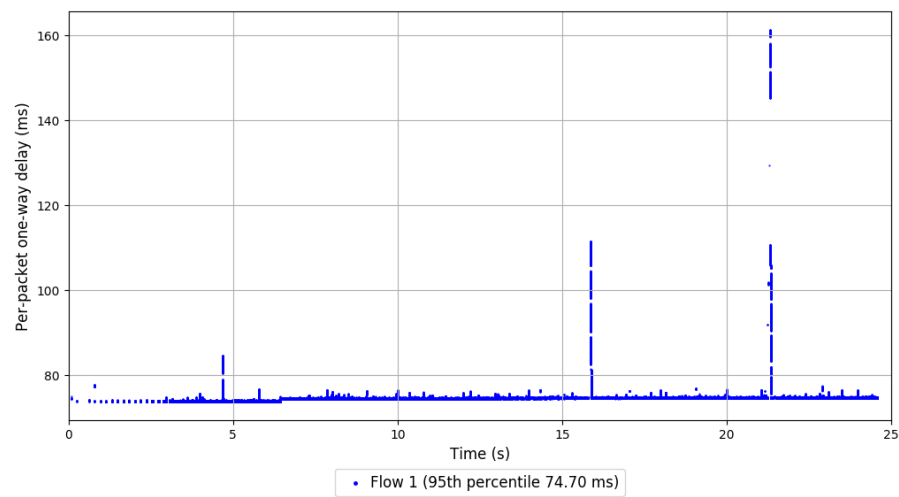
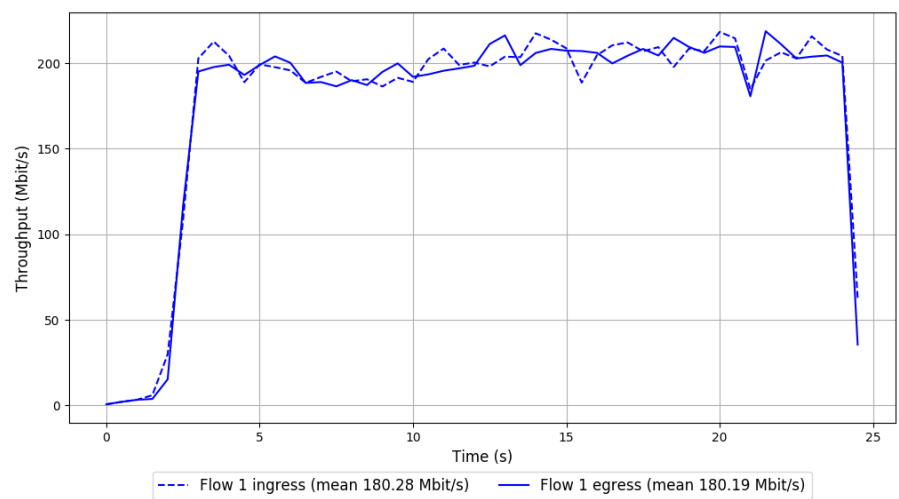


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-12 19:23:25
End at: 2018-02-12 19:23:55

# Below is generated by plot.py at 2018-02-13 01:34:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 180.19 Mbit/s
95th percentile per-packet one-way delay: 74.696 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 180.19 Mbit/s
95th percentile per-packet one-way delay: 74.696 ms
Loss rate: 0.75%
```

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

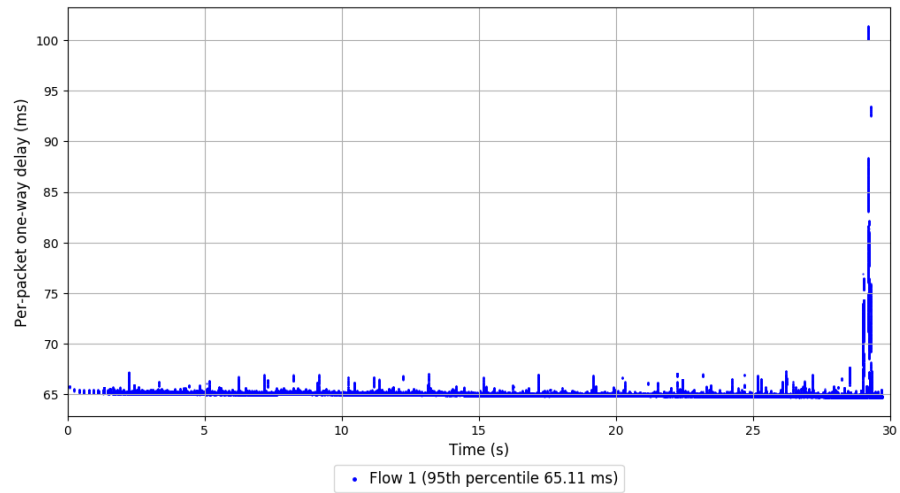
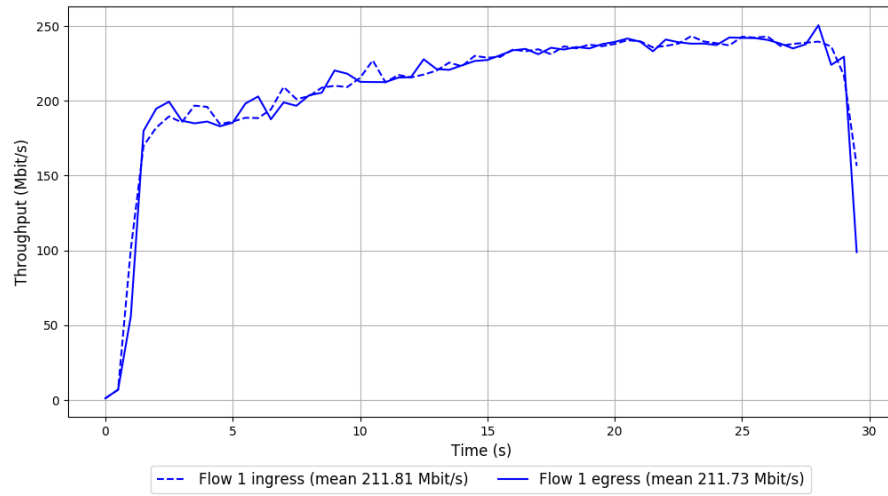


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-02-12 19:38:39
End at: 2018-02-12 19:39:09

# Below is generated by plot.py at 2018-02-13 01:34:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 211.73 Mbit/s
95th percentile per-packet one-way delay: 65.114 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 211.73 Mbit/s
95th percentile per-packet one-way delay: 65.114 ms
Loss rate: 0.65%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-12 19:53:56

End at: 2018-02-12 19:54:26

Below is generated by plot.py at 2018-02-13 01:34:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.08 Mbit/s

95th percentile per-packet one-way delay: 68.594 ms

Loss rate: 0.66%

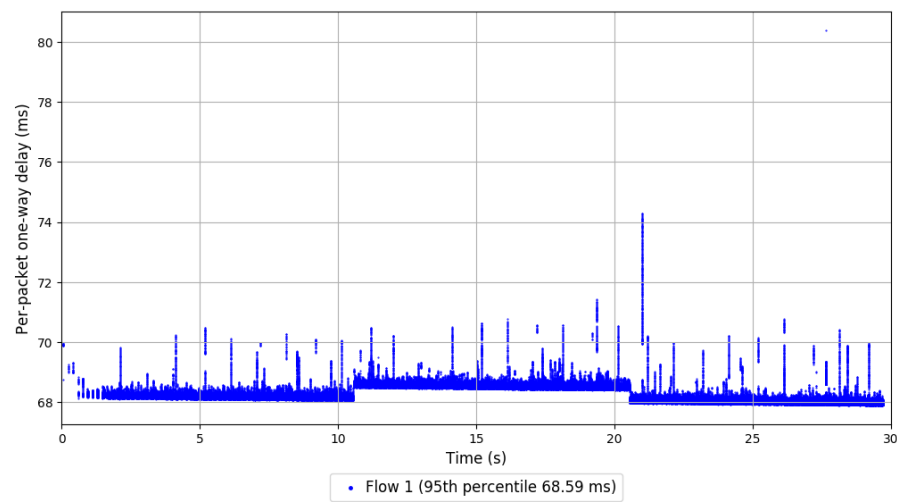
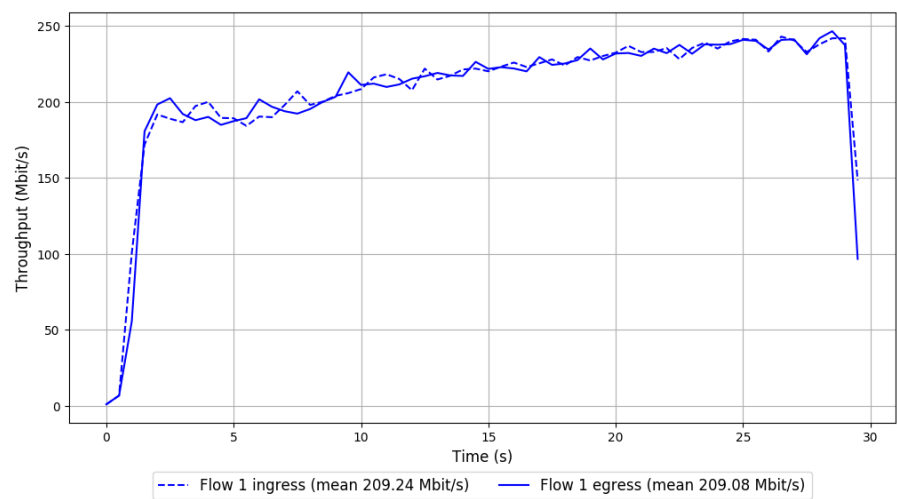
-- Flow 1:

Average throughput: 209.08 Mbit/s

95th percentile per-packet one-way delay: 68.594 ms

Loss rate: 0.66%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-12 20:09:16

End at: 2018-02-12 20:09:46

Below is generated by plot.py at 2018-02-13 01:34:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.74 Mbit/s

95th percentile per-packet one-way delay: 57.453 ms

Loss rate: 0.64%

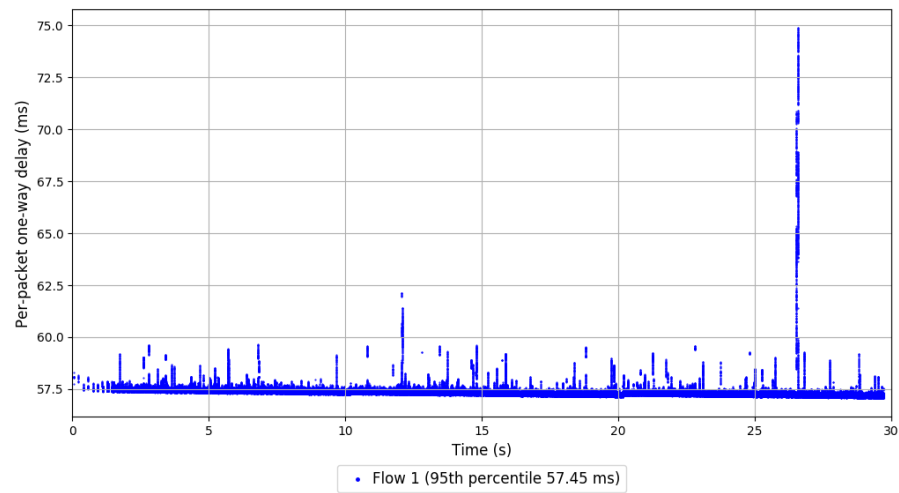
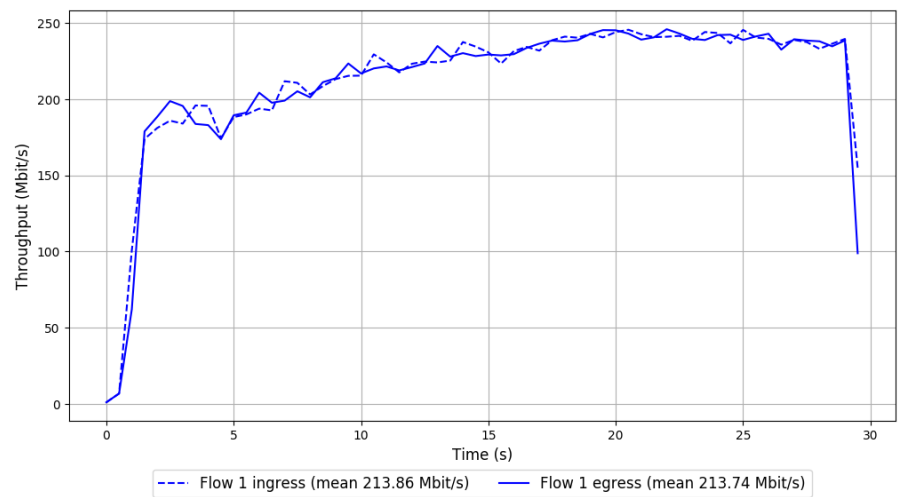
-- Flow 1:

Average throughput: 213.74 Mbit/s

95th percentile per-packet one-way delay: 57.453 ms

Loss rate: 0.64%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-12 20:24:46

End at: 2018-02-12 20:25:16

Below is generated by plot.py at 2018-02-13 01:34:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.09 Mbit/s

95th percentile per-packet one-way delay: 73.255 ms

Loss rate: 0.64%

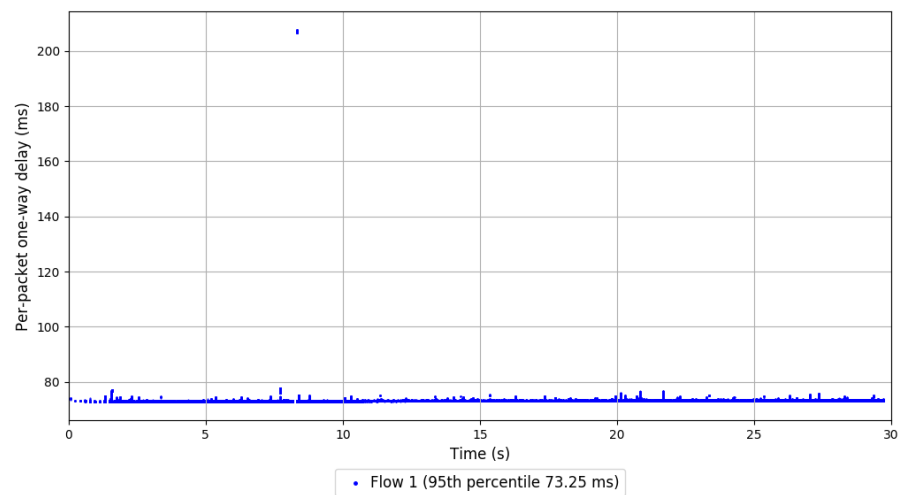
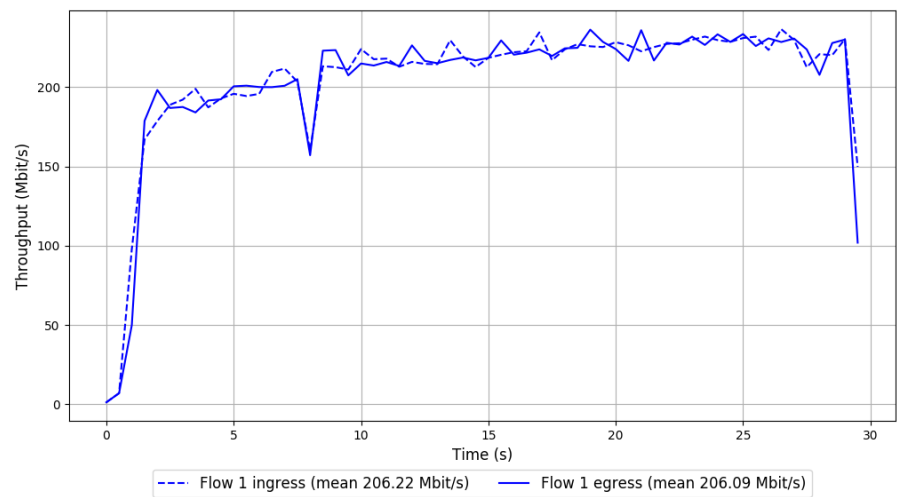
-- Flow 1:

Average throughput: 206.09 Mbit/s

95th percentile per-packet one-way delay: 73.255 ms

Loss rate: 0.64%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-12 20:40:13

End at: 2018-02-12 20:40:43

Below is generated by plot.py at 2018-02-13 01:34:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.84 Mbit/s

95th percentile per-packet one-way delay: 72.953 ms

Loss rate: 0.67%

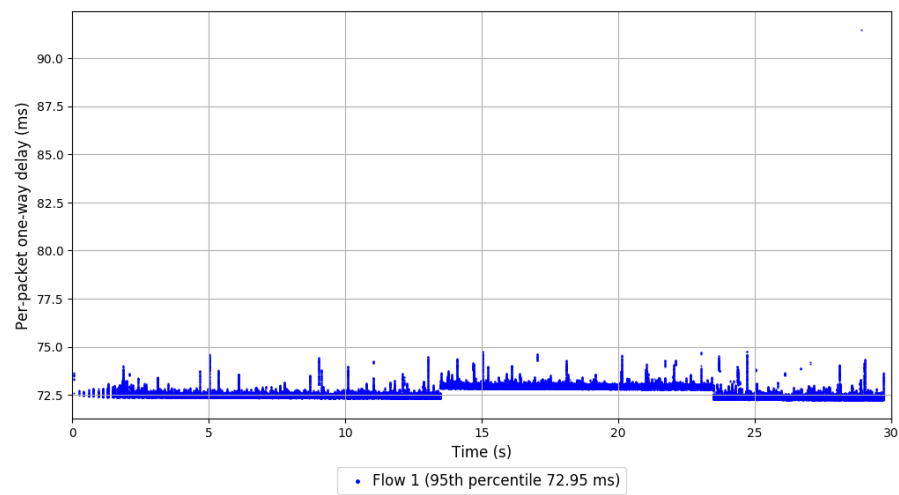
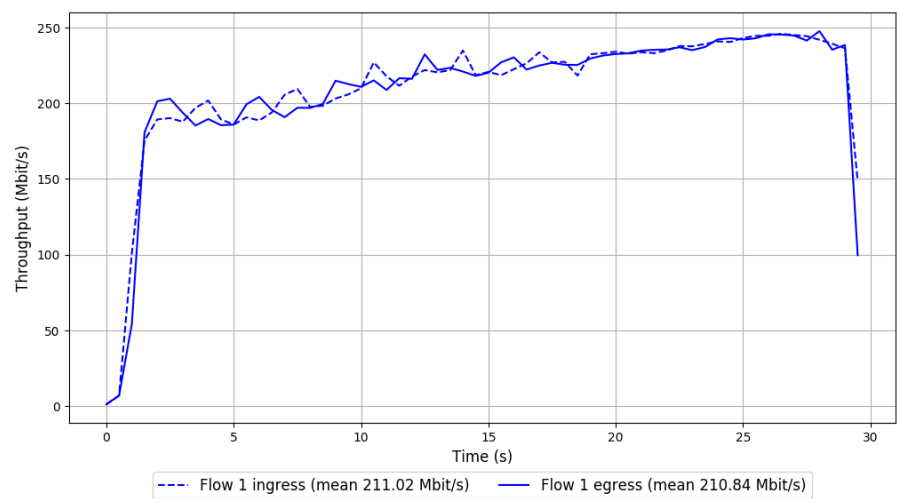
-- Flow 1:

Average throughput: 210.84 Mbit/s

95th percentile per-packet one-way delay: 72.953 ms

Loss rate: 0.67%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-12 20:55:31

End at: 2018-02-12 20:56:01

Below is generated by plot.py at 2018-02-13 01:34:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.33 Mbit/s

95th percentile per-packet one-way delay: 77.998 ms

Loss rate: 0.65%

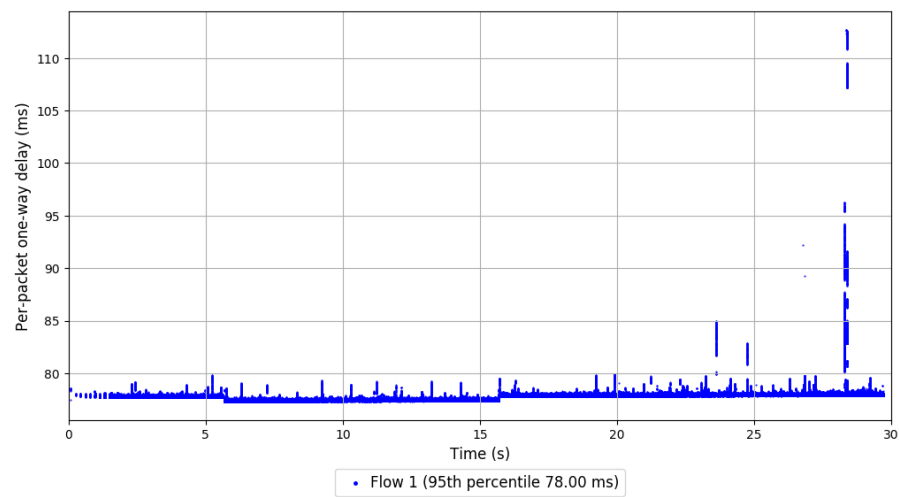
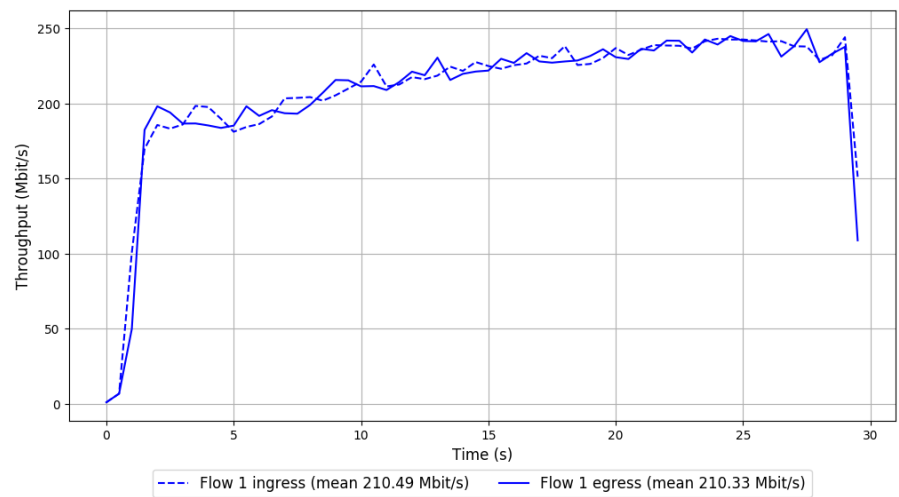
-- Flow 1:

Average throughput: 210.33 Mbit/s

95th percentile per-packet one-way delay: 77.998 ms

Loss rate: 0.65%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-12 21:11:01

End at: 2018-02-12 21:11:31

Below is generated by plot.py at 2018-02-13 01:34:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.33 Mbit/s

95th percentile per-packet one-way delay: 78.970 ms

Loss rate: 0.67%

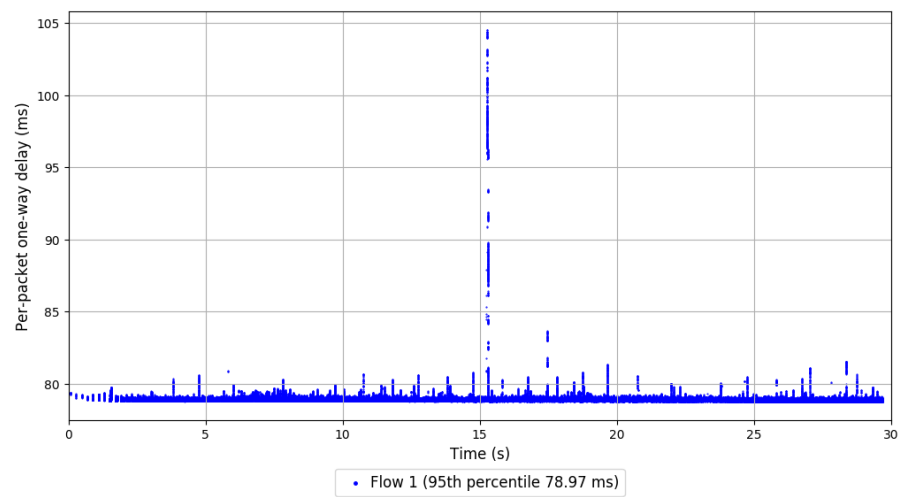
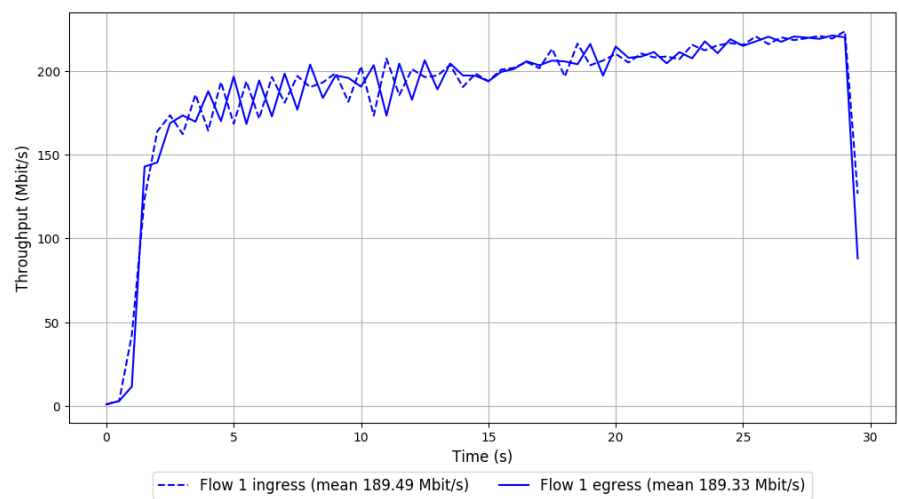
-- Flow 1:

Average throughput: 189.33 Mbit/s

95th percentile per-packet one-way delay: 78.970 ms

Loss rate: 0.67%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-12 21:26:27

End at: 2018-02-12 21:26:57

Below is generated by plot.py at 2018-02-13 01:34:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.20 Mbit/s

95th percentile per-packet one-way delay: 80.928 ms

Loss rate: 0.67%

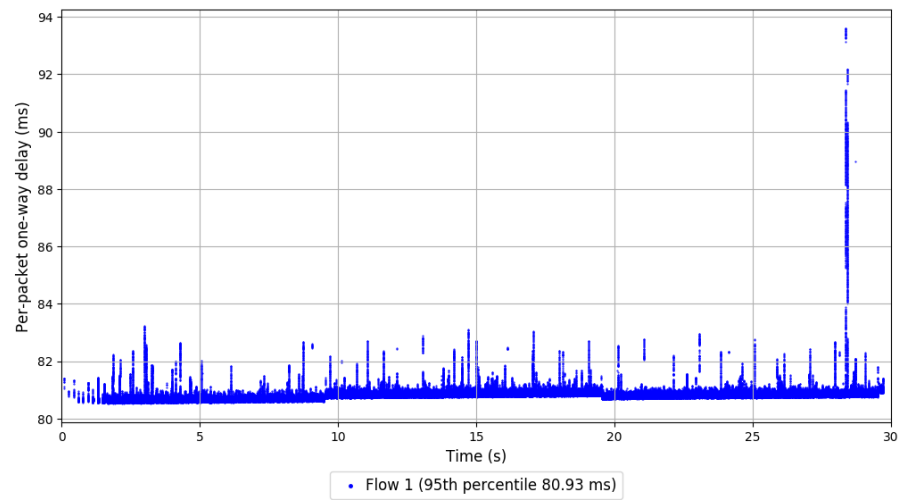
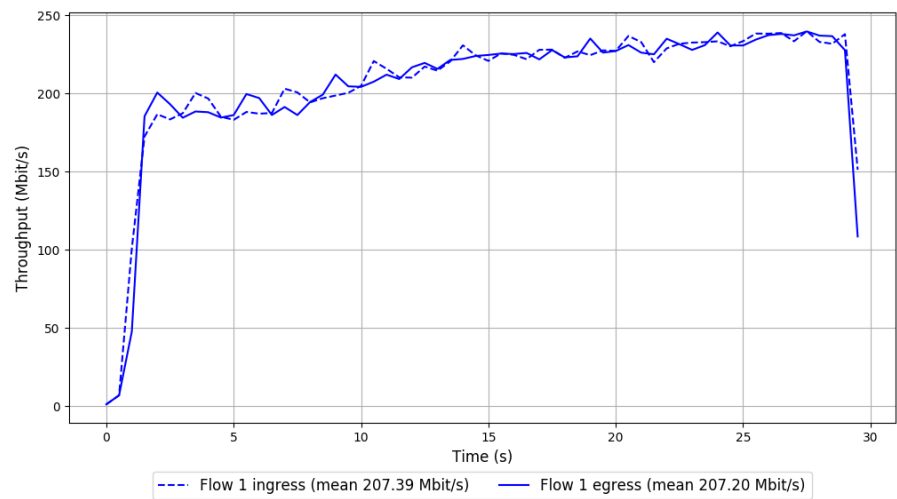
-- Flow 1:

Average throughput: 207.20 Mbit/s

95th percentile per-packet one-way delay: 80.928 ms

Loss rate: 0.67%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-12 21:41:37

End at: 2018-02-12 21:42:07

Below is generated by plot.py at 2018-02-13 01:34:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.83 Mbit/s

95th percentile per-packet one-way delay: 83.730 ms

Loss rate: 0.66%

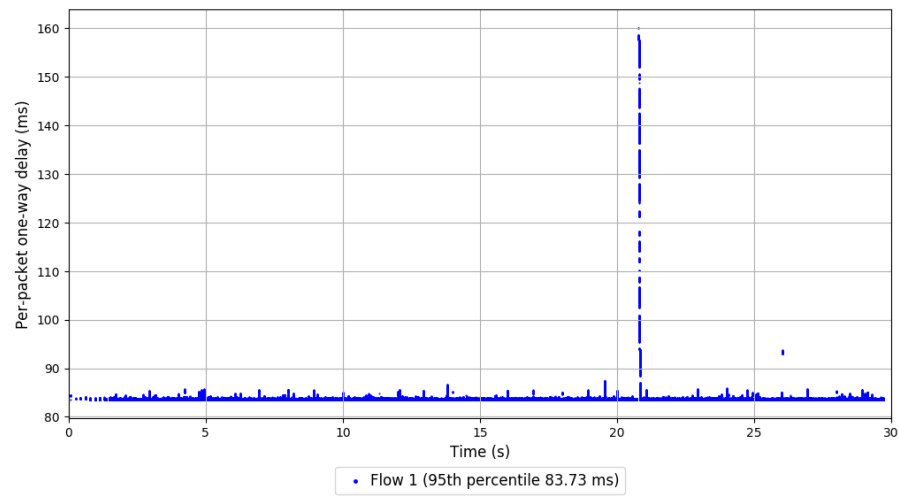
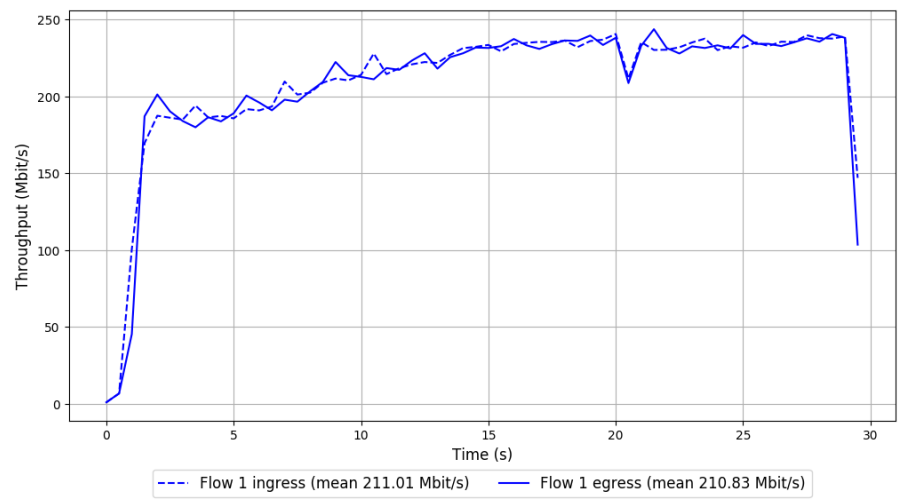
-- Flow 1:

Average throughput: 210.83 Mbit/s

95th percentile per-packet one-way delay: 83.730 ms

Loss rate: 0.66%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-02-12 19:26:50

End at: 2018-02-12 19:27:20

Below is generated by plot.py at 2018-02-13 01:34:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 395.45 Mbit/s

95th percentile per-packet one-way delay: 76.192 ms

Loss rate: 0.61%

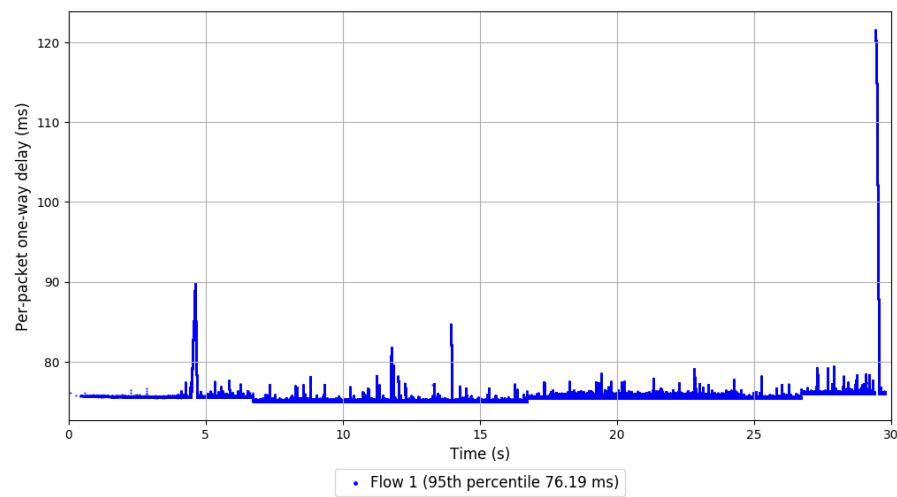
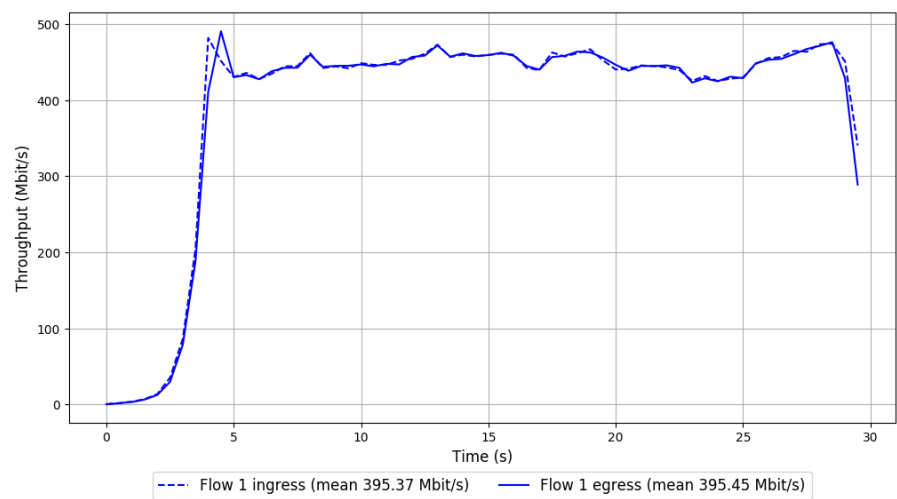
-- Flow 1:

Average throughput: 395.45 Mbit/s

95th percentile per-packet one-way delay: 76.192 ms

Loss rate: 0.61%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-12 19:42:10

End at: 2018-02-12 19:42:40

Below is generated by plot.py at 2018-02-13 01:34:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 389.62 Mbit/s

95th percentile per-packet one-way delay: 69.136 ms

Loss rate: 0.72%

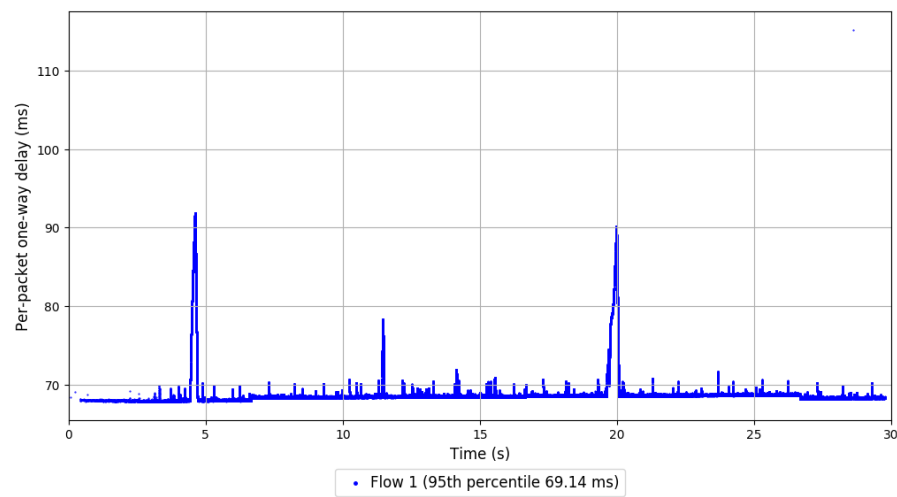
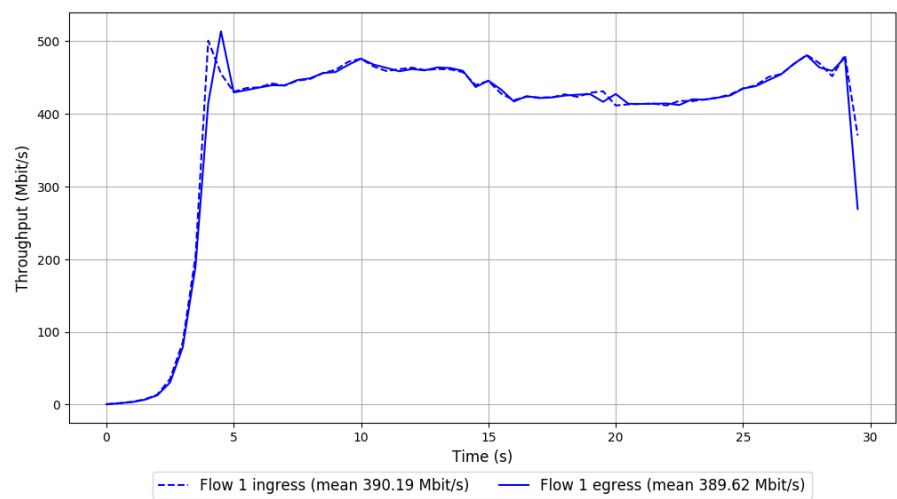
-- Flow 1:

Average throughput: 389.62 Mbit/s

95th percentile per-packet one-way delay: 69.136 ms

Loss rate: 0.72%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-12 19:57:26

End at: 2018-02-12 19:57:56

Below is generated by plot.py at 2018-02-13 01:34:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 416.01 Mbit/s

95th percentile per-packet one-way delay: 106.647 ms

Loss rate: 0.66%

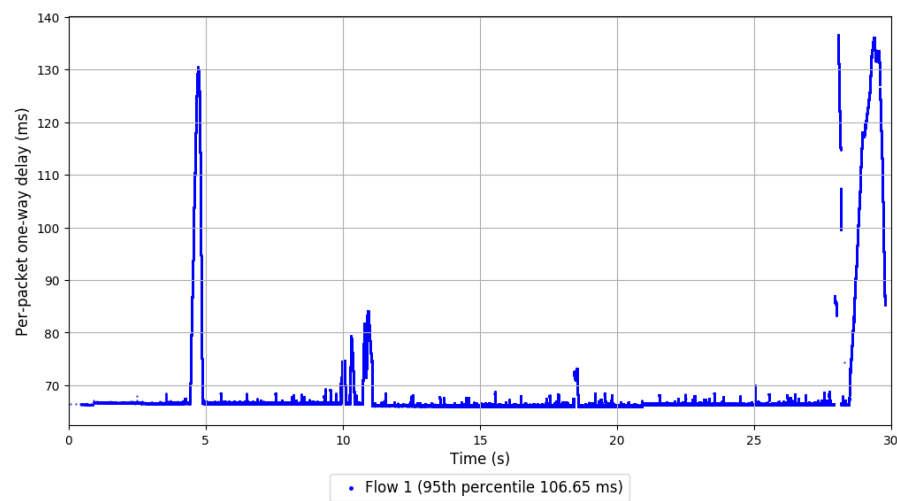
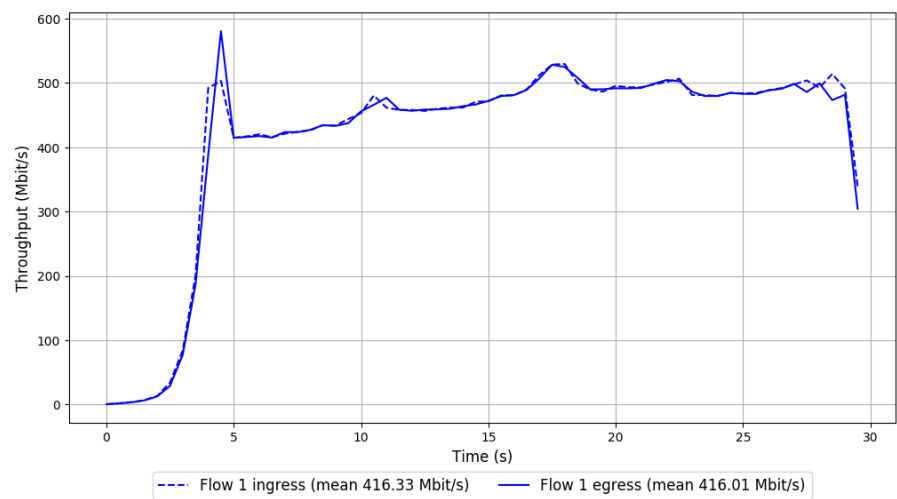
-- Flow 1:

Average throughput: 416.01 Mbit/s

95th percentile per-packet one-way delay: 106.647 ms

Loss rate: 0.66%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-12 20:12:46

End at: 2018-02-12 20:13:16

Below is generated by plot.py at 2018-02-13 01:34:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 366.65 Mbit/s

95th percentile per-packet one-way delay: 54.933 ms

Loss rate: 0.52%

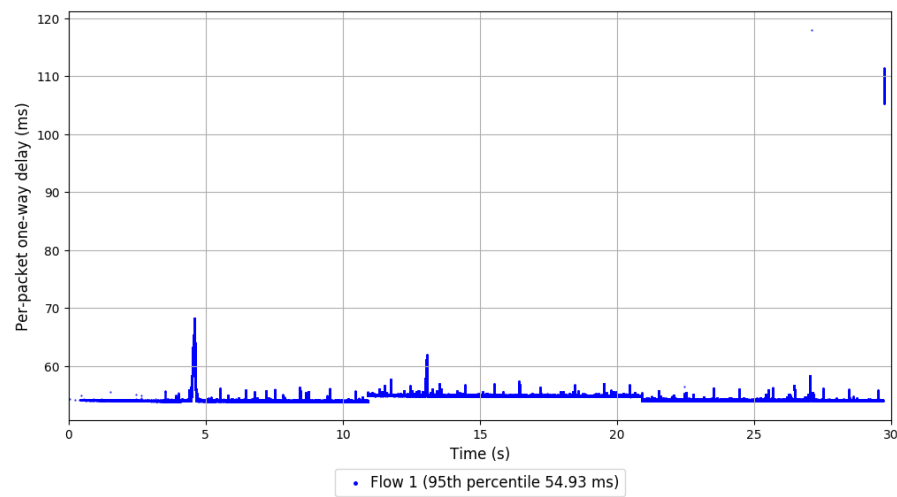
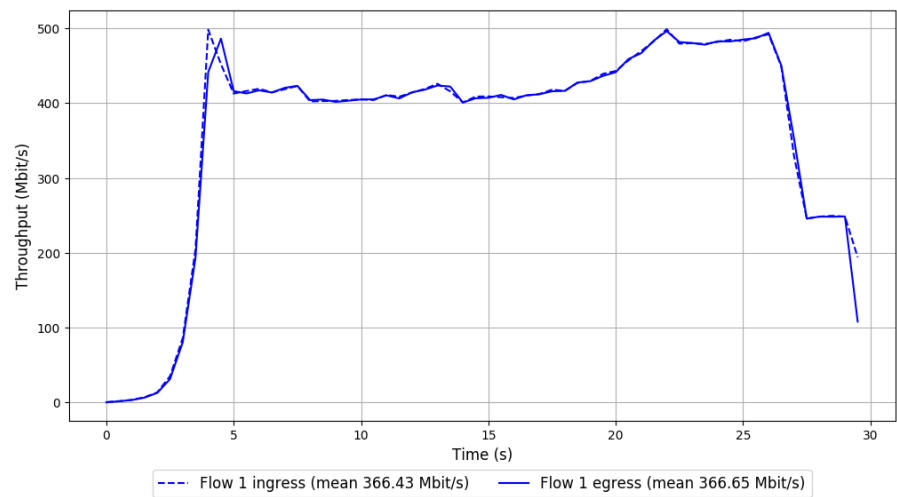
-- Flow 1:

Average throughput: 366.65 Mbit/s

95th percentile per-packet one-way delay: 54.933 ms

Loss rate: 0.52%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-12 20:28:15

End at: 2018-02-12 20:28:45

Below is generated by plot.py at 2018-02-13 01:34:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 409.78 Mbit/s

95th percentile per-packet one-way delay: 79.687 ms

Loss rate: 0.71%

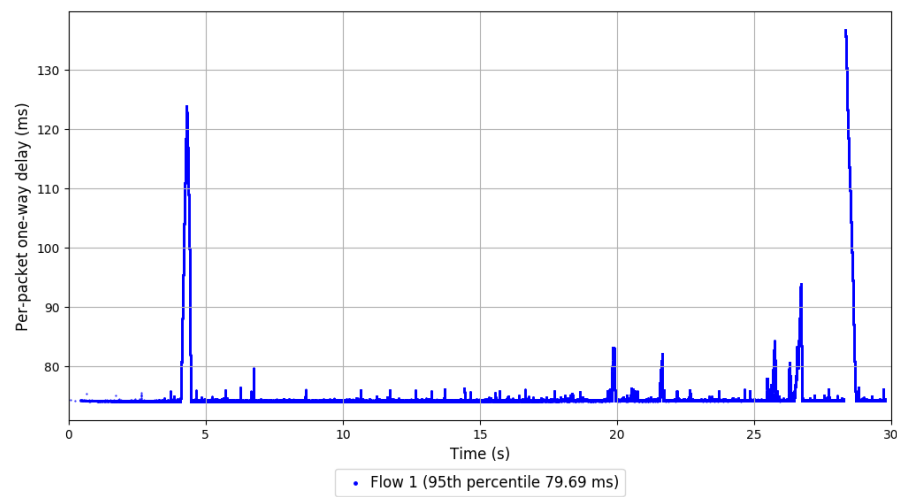
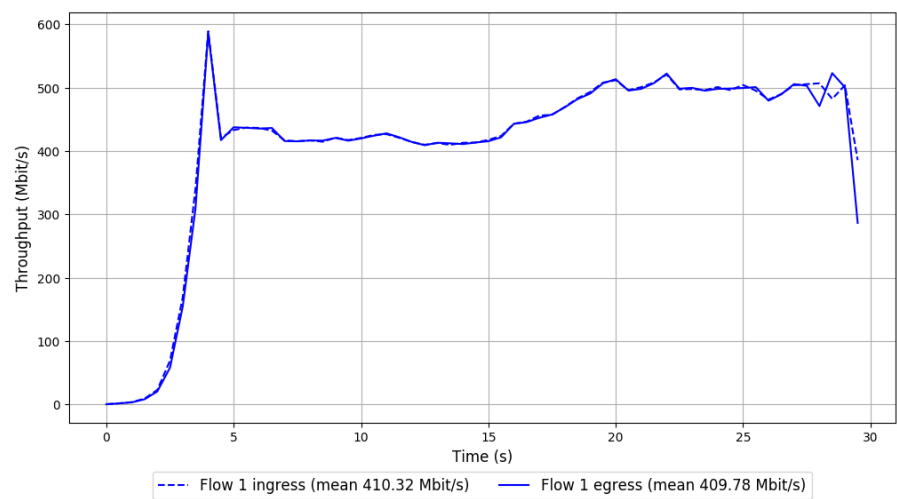
-- Flow 1:

Average throughput: 409.78 Mbit/s

95th percentile per-packet one-way delay: 79.687 ms

Loss rate: 0.71%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-12 20:43:43

End at: 2018-02-12 20:44:13

Below is generated by plot.py at 2018-02-13 01:34:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 402.40 Mbit/s

95th percentile per-packet one-way delay: 71.980 ms

Loss rate: 0.62%

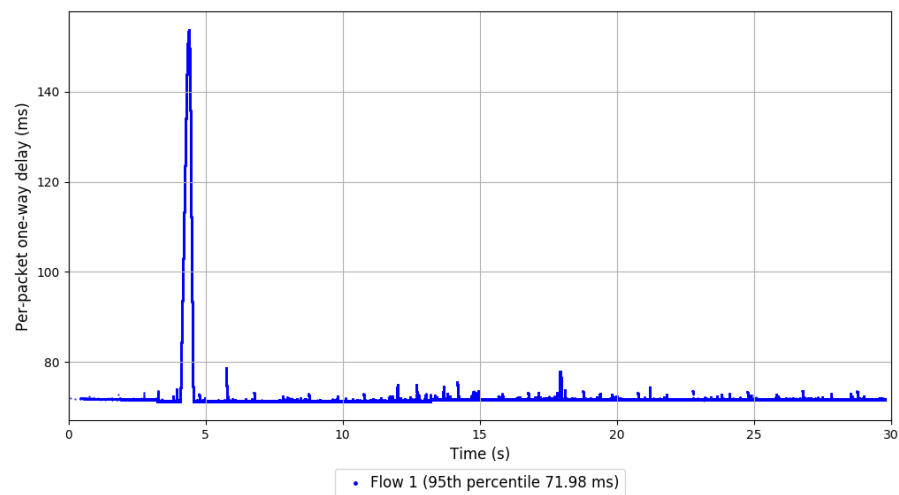
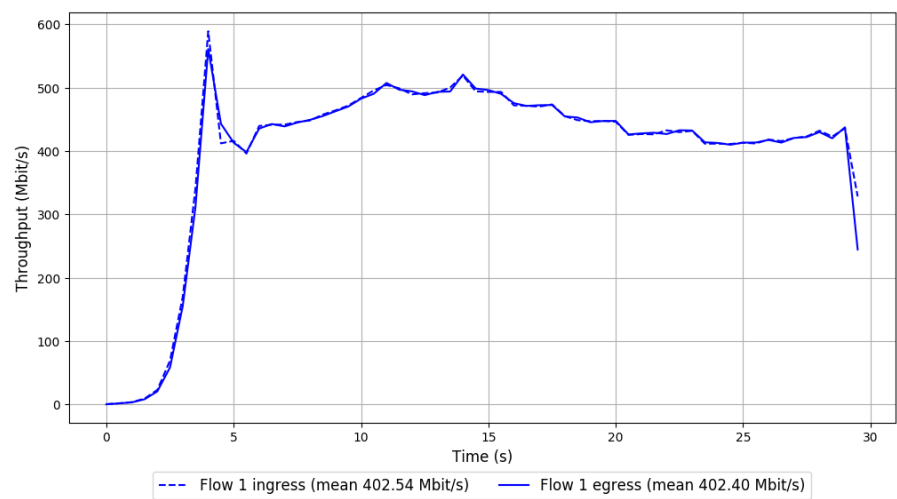
-- Flow 1:

Average throughput: 402.40 Mbit/s

95th percentile per-packet one-way delay: 71.980 ms

Loss rate: 0.62%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-12 20:59:01

End at: 2018-02-12 20:59:31

Below is generated by plot.py at 2018-02-13 01:35:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 385.65 Mbit/s

95th percentile per-packet one-way delay: 79.350 ms

Loss rate: 0.76%

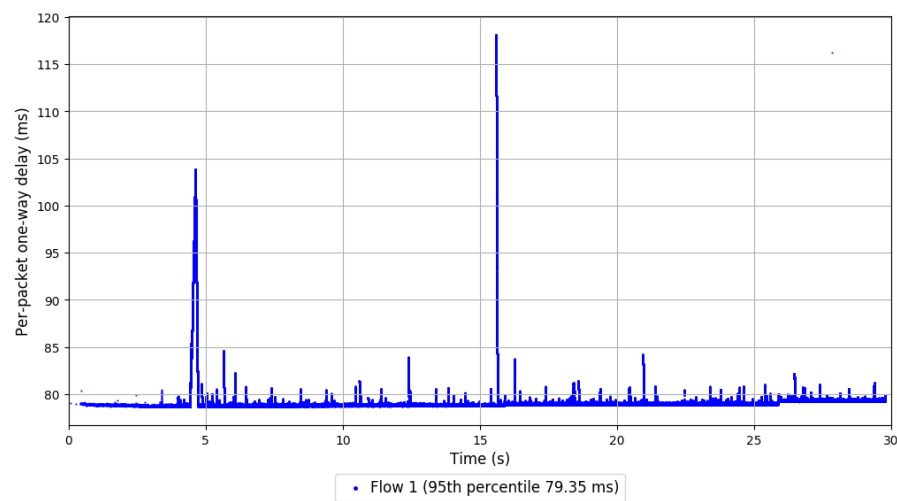
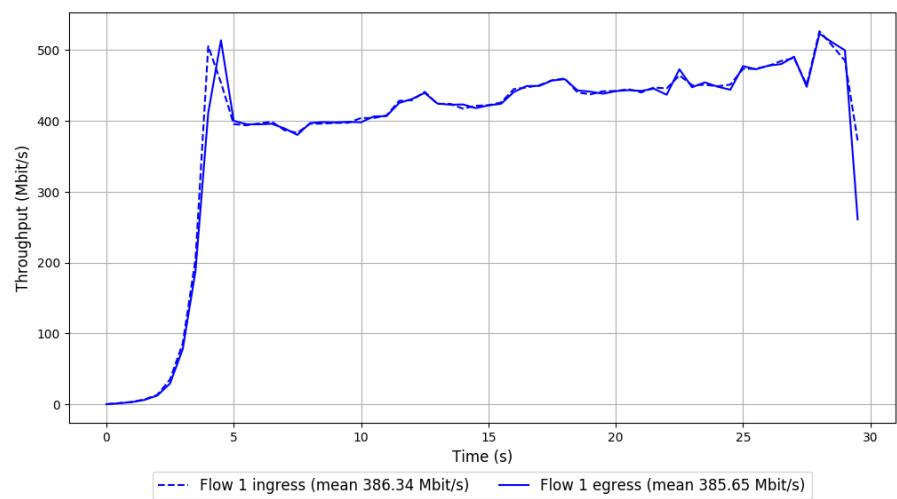
-- Flow 1:

Average throughput: 385.65 Mbit/s

95th percentile per-packet one-way delay: 79.350 ms

Loss rate: 0.76%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-12 21:14:29

End at: 2018-02-12 21:14:59

Below is generated by plot.py at 2018-02-13 01:36:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 414.04 Mbit/s

95th percentile per-packet one-way delay: 78.440 ms

Loss rate: 0.62%

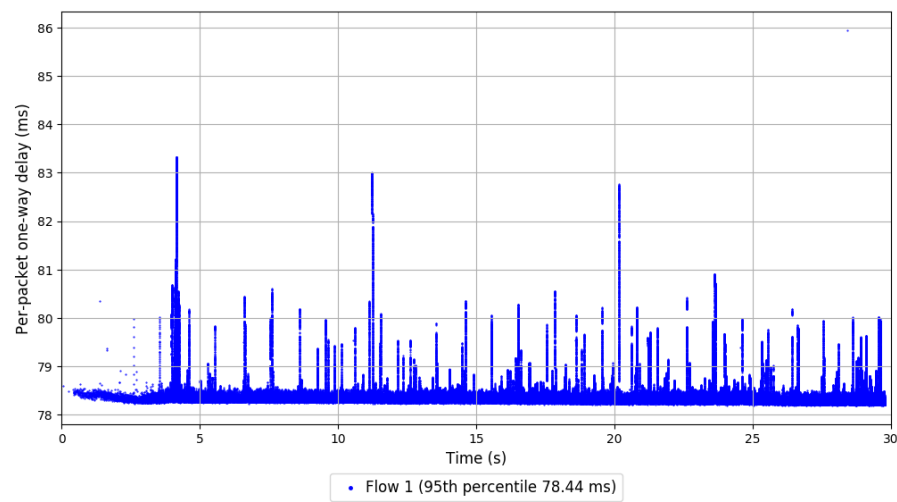
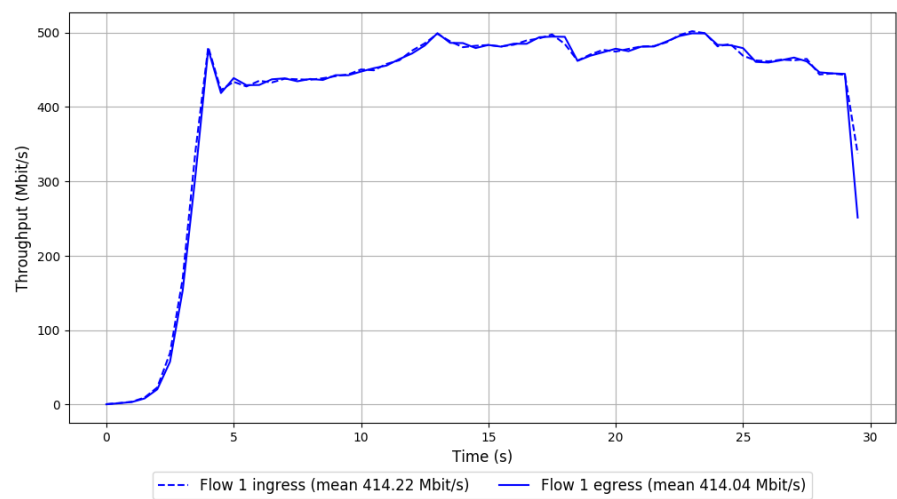
-- Flow 1:

Average throughput: 414.04 Mbit/s

95th percentile per-packet one-way delay: 78.440 ms

Loss rate: 0.62%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-12 21:29:56

End at: 2018-02-12 21:30:26

Below is generated by plot.py at 2018-02-13 01:36:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 373.74 Mbit/s

95th percentile per-packet one-way delay: 84.142 ms

Loss rate: 0.66%

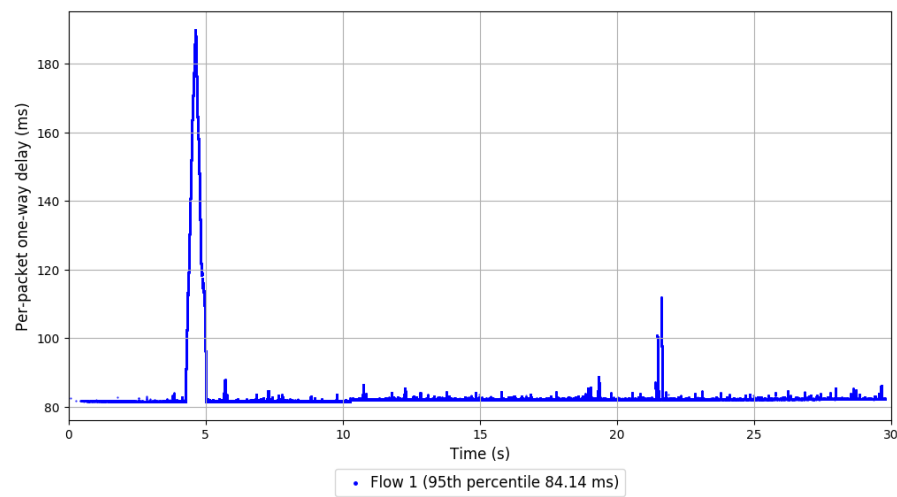
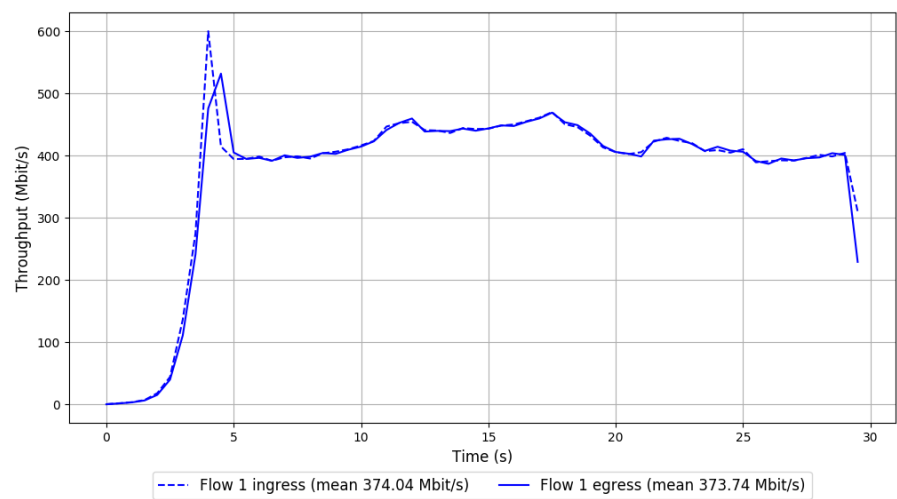
-- Flow 1:

Average throughput: 373.74 Mbit/s

95th percentile per-packet one-way delay: 84.142 ms

Loss rate: 0.66%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-12 21:45:01

End at: 2018-02-12 21:45:32

Below is generated by plot.py at 2018-02-13 01:36:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 355.86 Mbit/s

95th percentile per-packet one-way delay: 83.953 ms

Loss rate: 0.69%

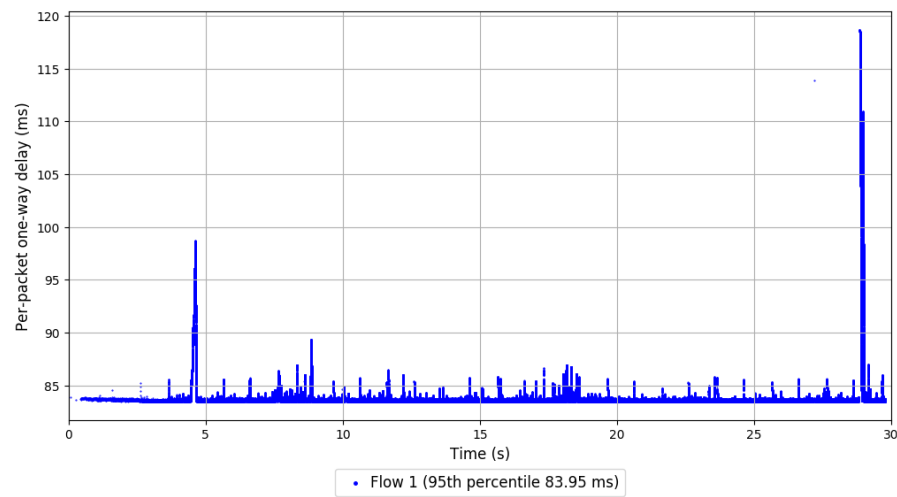
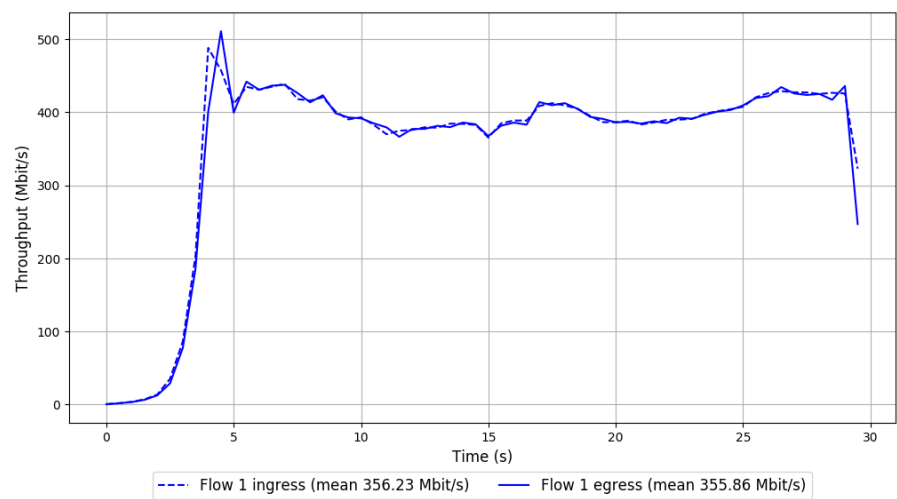
-- Flow 1:

Average throughput: 355.86 Mbit/s

95th percentile per-packet one-way delay: 83.953 ms

Loss rate: 0.69%

Run 10: Report of Vivace-latency — Data Link

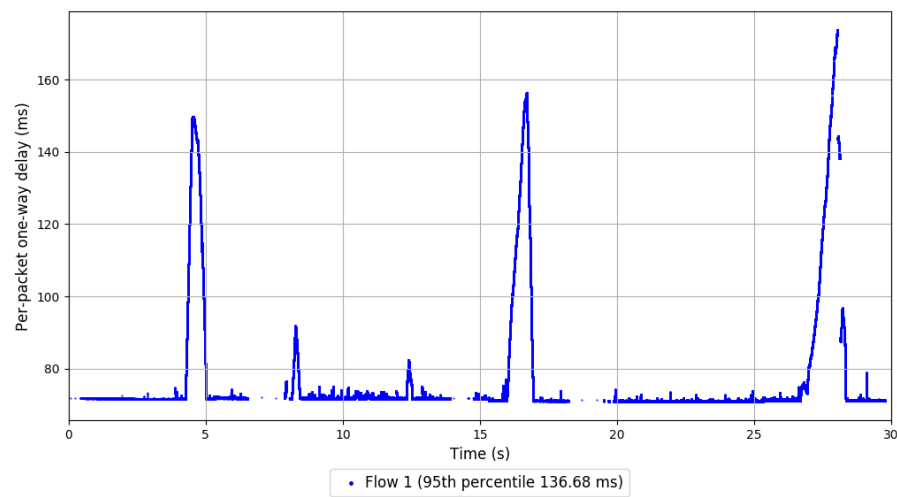
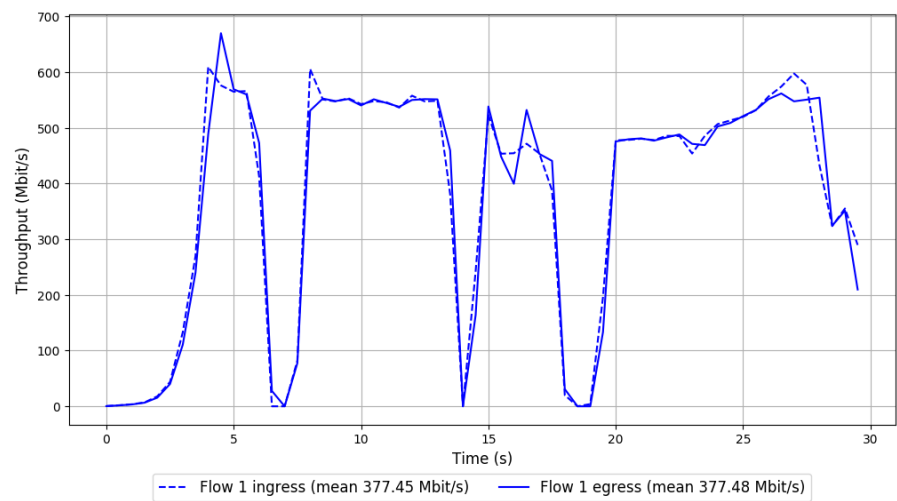


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-12 19:33:11
End at: 2018-02-12 19:33:41

# Below is generated by plot.py at 2018-02-13 01:37:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 377.48 Mbit/s
95th percentile per-packet one-way delay: 136.683 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 377.48 Mbit/s
95th percentile per-packet one-way delay: 136.683 ms
Loss rate: 0.58%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-12 19:48:28

End at: 2018-02-12 19:48:58

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 303.69 Mbit/s

95th percentile per-packet one-way delay: 117.476 ms

Loss rate: 1.24%

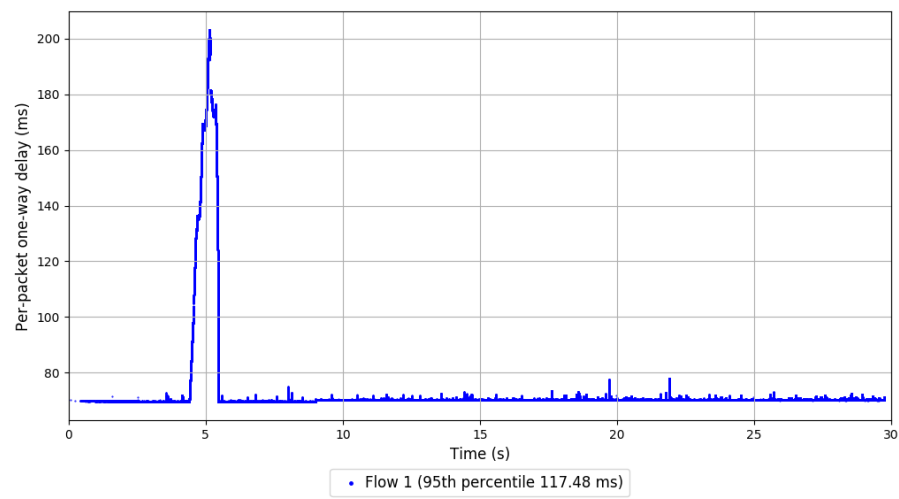
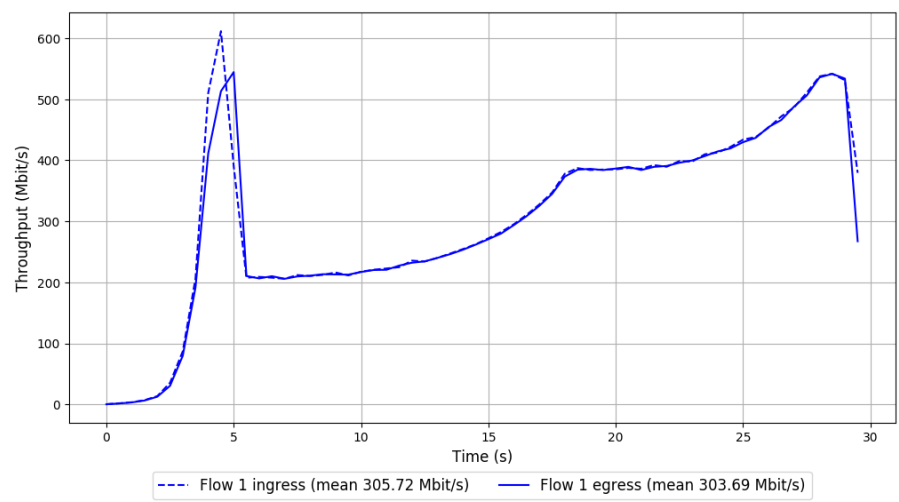
-- Flow 1:

Average throughput: 303.69 Mbit/s

95th percentile per-packet one-way delay: 117.476 ms

Loss rate: 1.24%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-12 20:03:48

End at: 2018-02-12 20:04:18

Below is generated by plot.py at 2018-02-13 01:39:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 277.13 Mbit/s

95th percentile per-packet one-way delay: 116.070 ms

Loss rate: 1.19%

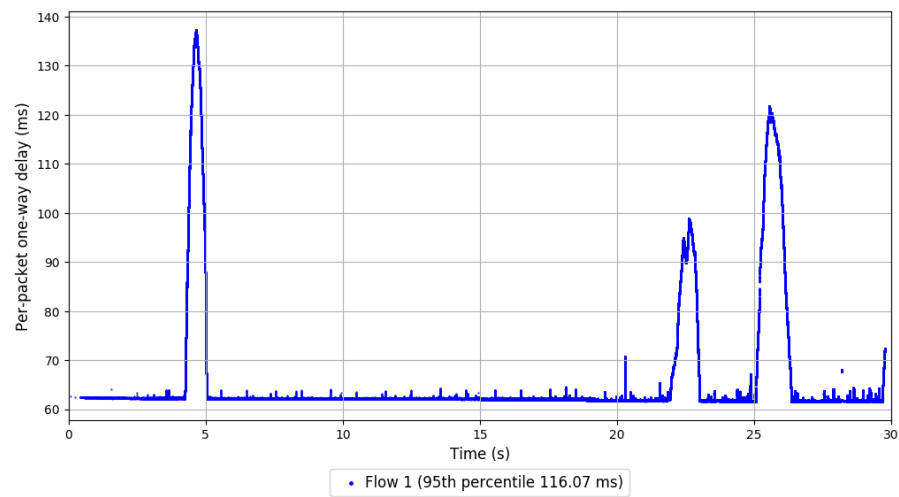
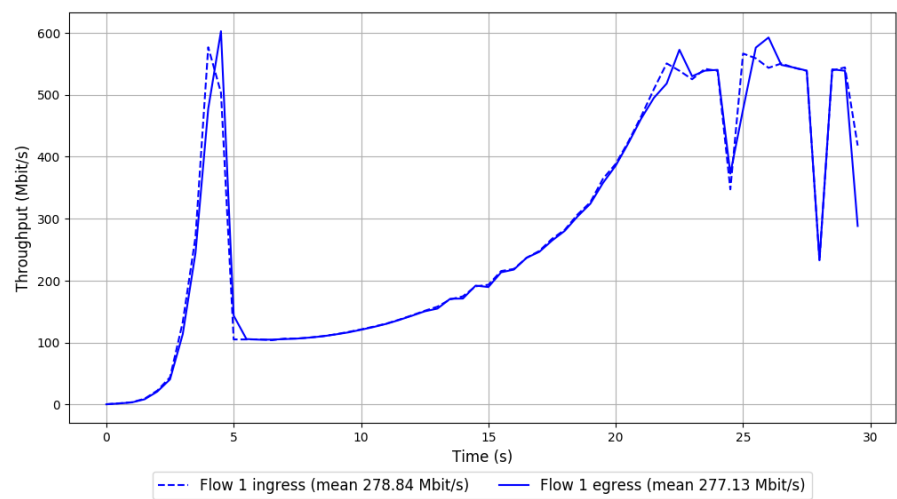
-- Flow 1:

Average throughput: 277.13 Mbit/s

95th percentile per-packet one-way delay: 116.070 ms

Loss rate: 1.19%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-12 20:19:05

End at: 2018-02-12 20:19:35

Below is generated by plot.py at 2018-02-13 01:41:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 441.20 Mbit/s

95th percentile per-packet one-way delay: 111.809 ms

Loss rate: 1.16%

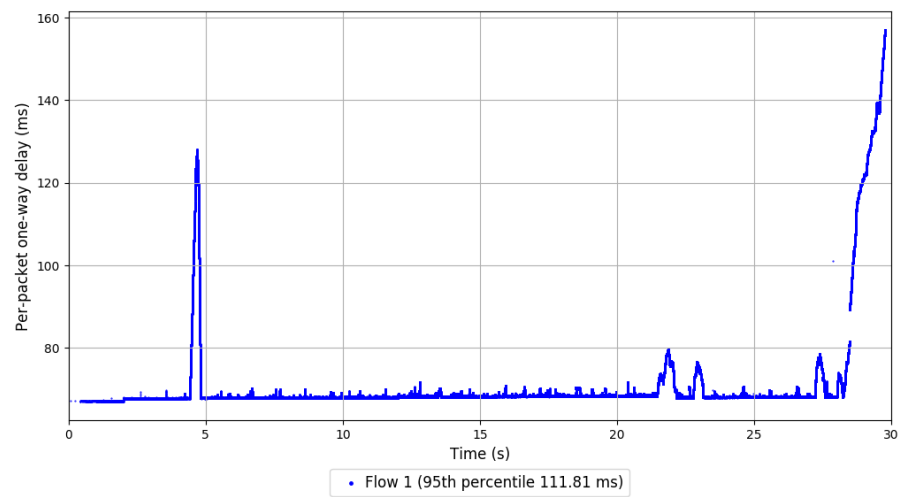
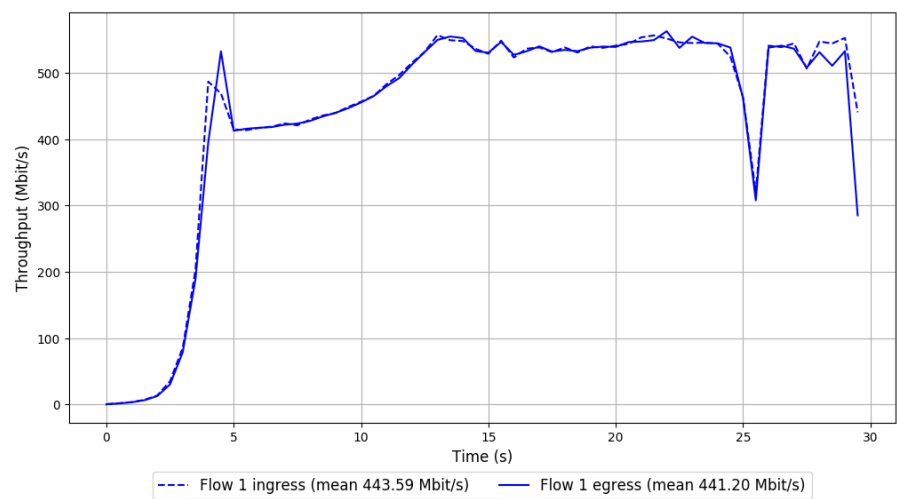
-- Flow 1:

Average throughput: 441.20 Mbit/s

95th percentile per-packet one-way delay: 111.809 ms

Loss rate: 1.16%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-12 20:34:37

End at: 2018-02-12 20:35:07

Below is generated by plot.py at 2018-02-13 01:41:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 331.62 Mbit/s

95th percentile per-packet one-way delay: 97.178 ms

Loss rate: 0.88%

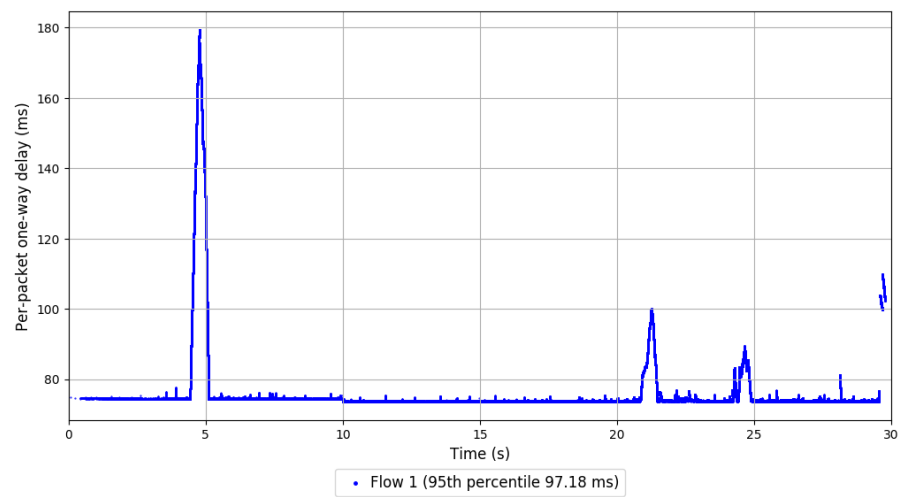
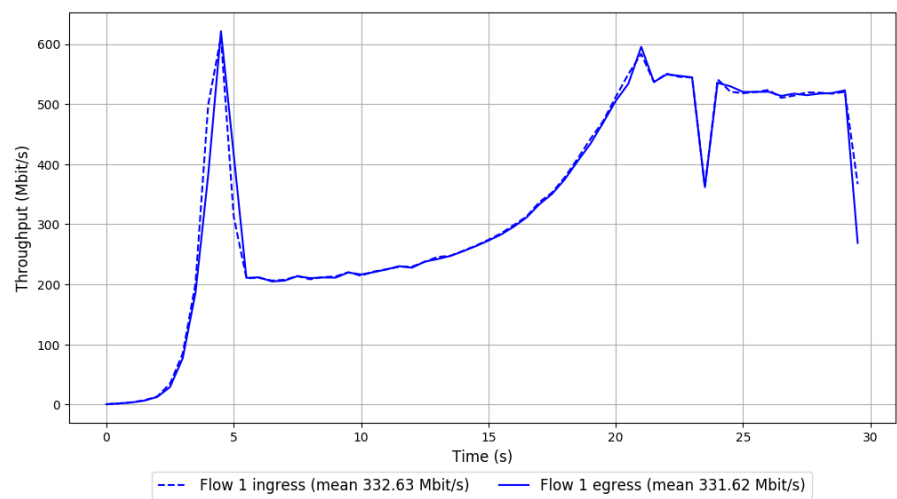
-- Flow 1:

Average throughput: 331.62 Mbit/s

95th percentile per-packet one-way delay: 97.178 ms

Loss rate: 0.88%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-12 20:50:00

End at: 2018-02-12 20:50:30

Below is generated by plot.py at 2018-02-13 01:41:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 267.86 Mbit/s

95th percentile per-packet one-way delay: 75.228 ms

Loss rate: 1.02%

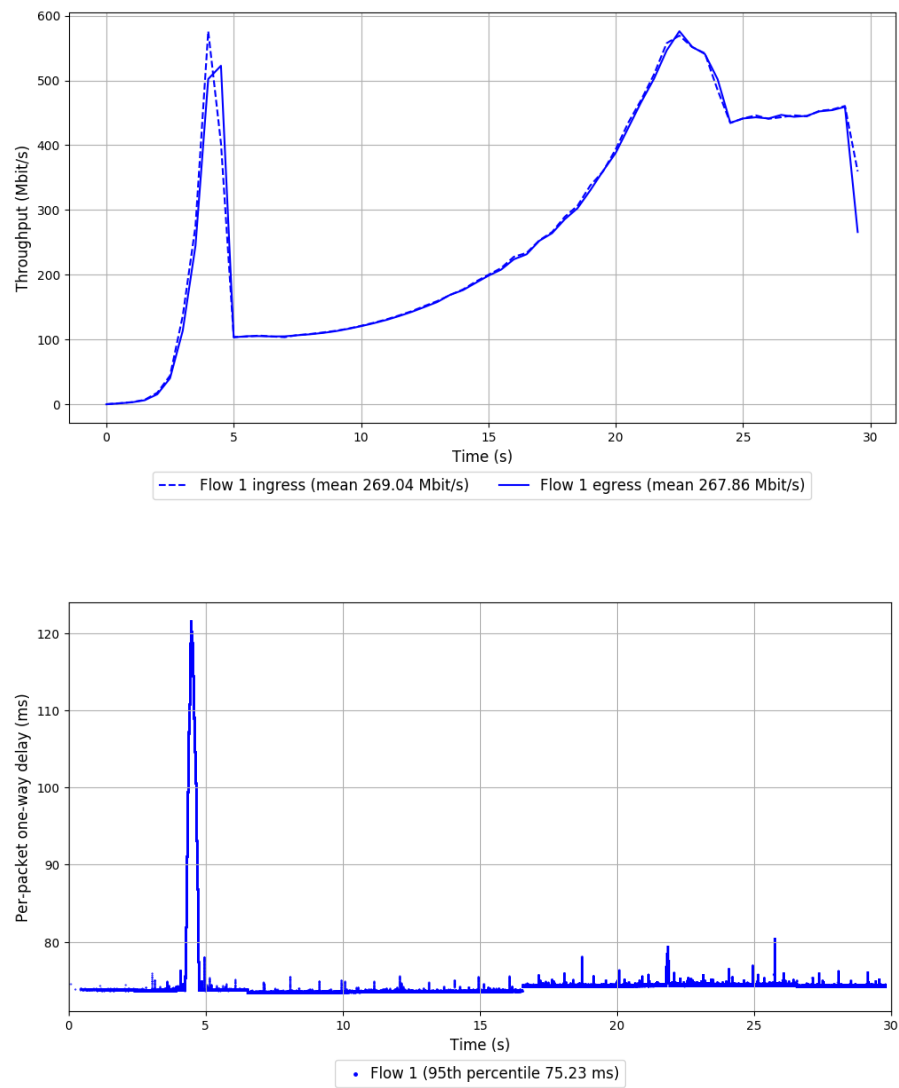
-- Flow 1:

Average throughput: 267.86 Mbit/s

95th percentile per-packet one-way delay: 75.228 ms

Loss rate: 1.02%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-12 21:05:17

End at: 2018-02-12 21:05:47

Below is generated by plot.py at 2018-02-13 01:43:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 450.56 Mbit/s

95th percentile per-packet one-way delay: 91.252 ms

Loss rate: 0.42%

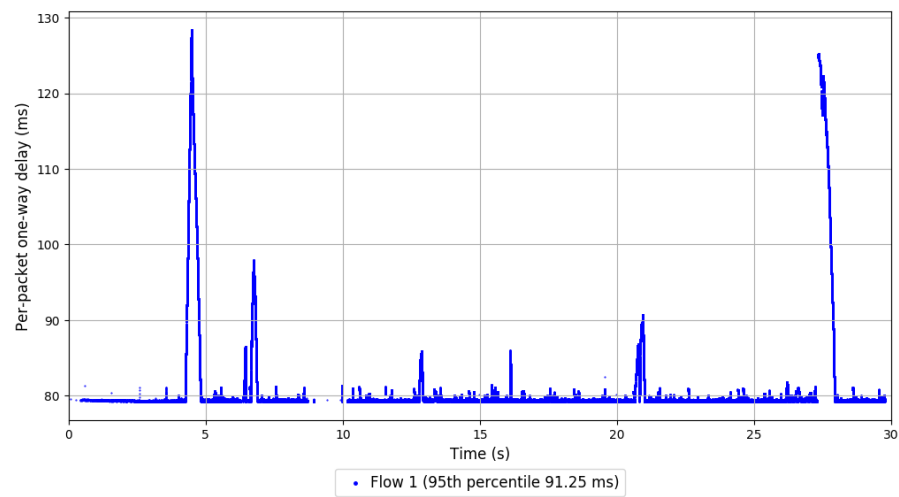
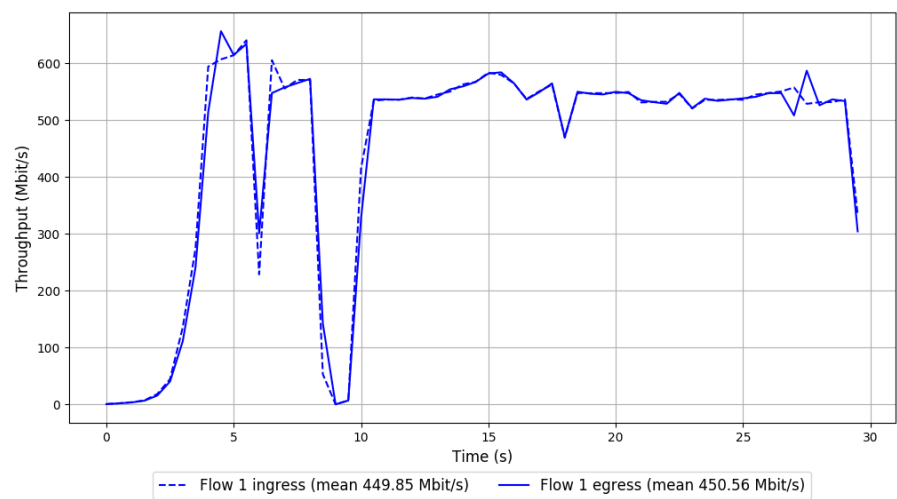
-- Flow 1:

Average throughput: 450.56 Mbit/s

95th percentile per-packet one-way delay: 91.252 ms

Loss rate: 0.42%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-12 21:20:47

End at: 2018-02-12 21:21:17

Below is generated by plot.py at 2018-02-13 01:43:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 424.23 Mbit/s

95th percentile per-packet one-way delay: 78.398 ms

Loss rate: 0.69%

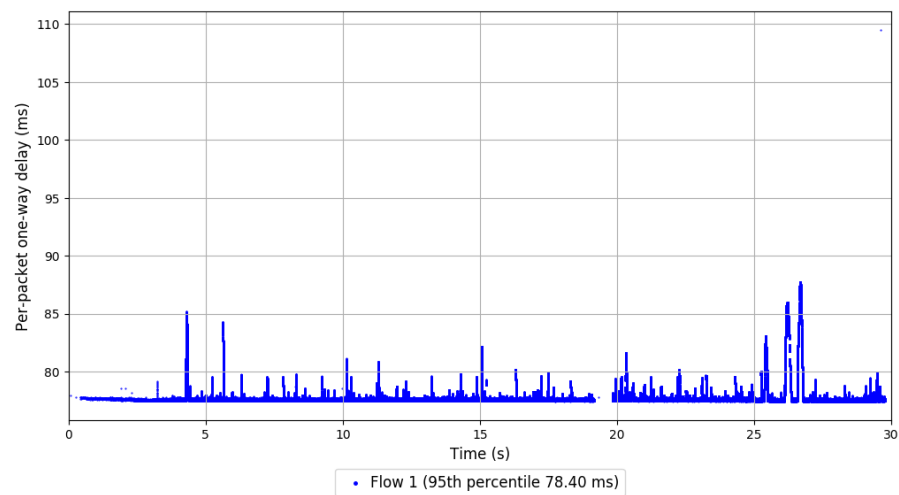
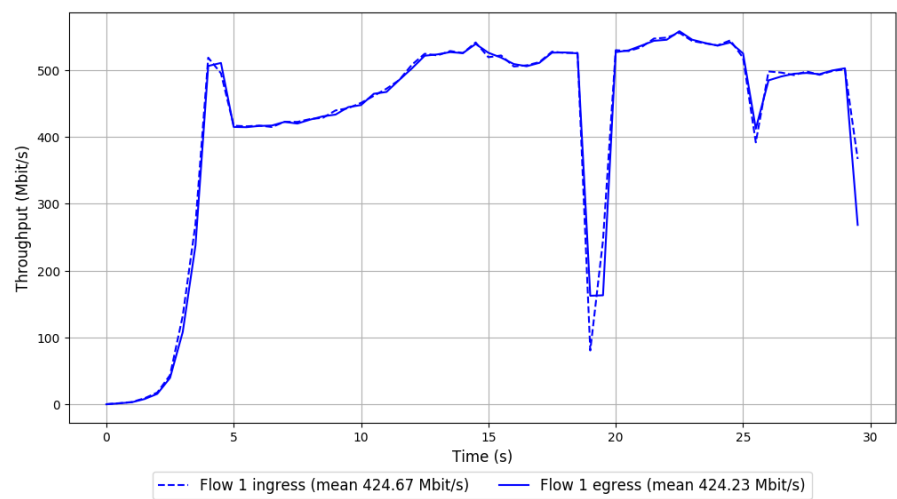
-- Flow 1:

Average throughput: 424.23 Mbit/s

95th percentile per-packet one-way delay: 78.398 ms

Loss rate: 0.69%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-12 21:36:13

End at: 2018-02-12 21:36:44

Below is generated by plot.py at 2018-02-13 01:43:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 279.70 Mbit/s

95th percentile per-packet one-way delay: 99.588 ms

Loss rate: 1.04%

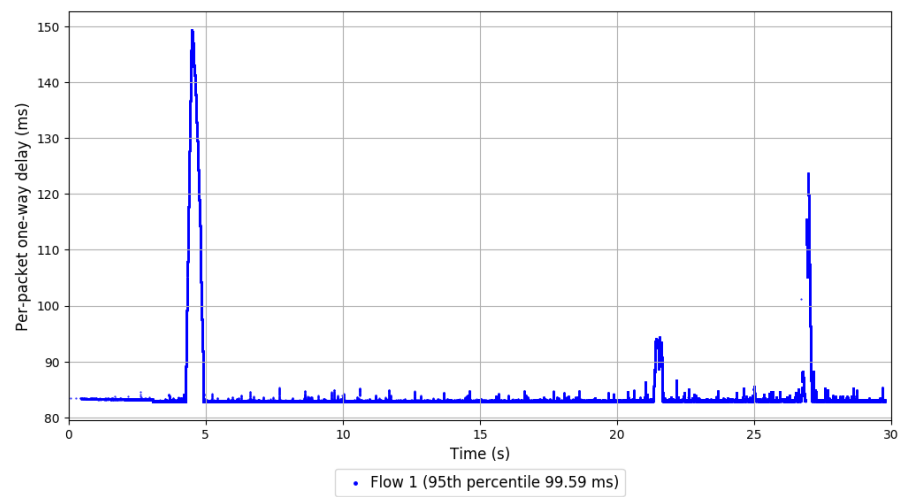
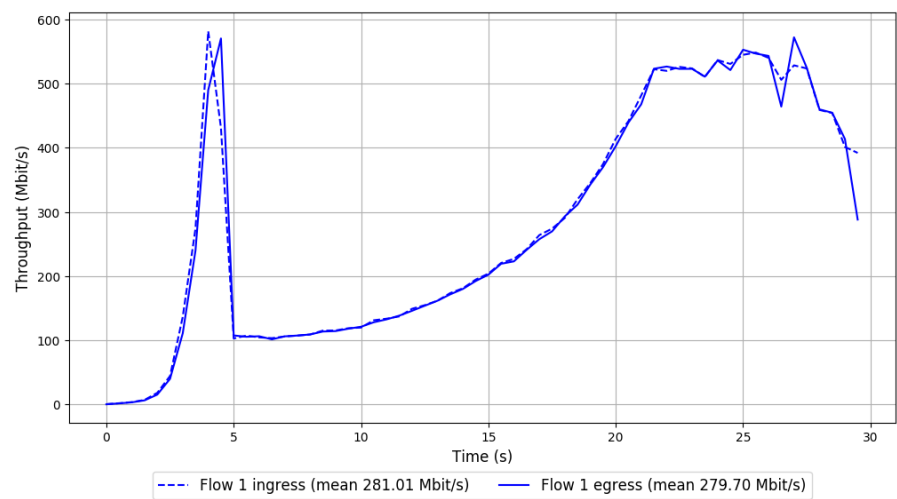
-- Flow 1:

Average throughput: 279.70 Mbit/s

95th percentile per-packet one-way delay: 99.588 ms

Loss rate: 1.04%

Run 9: Report of Vivace-loss — Data Link

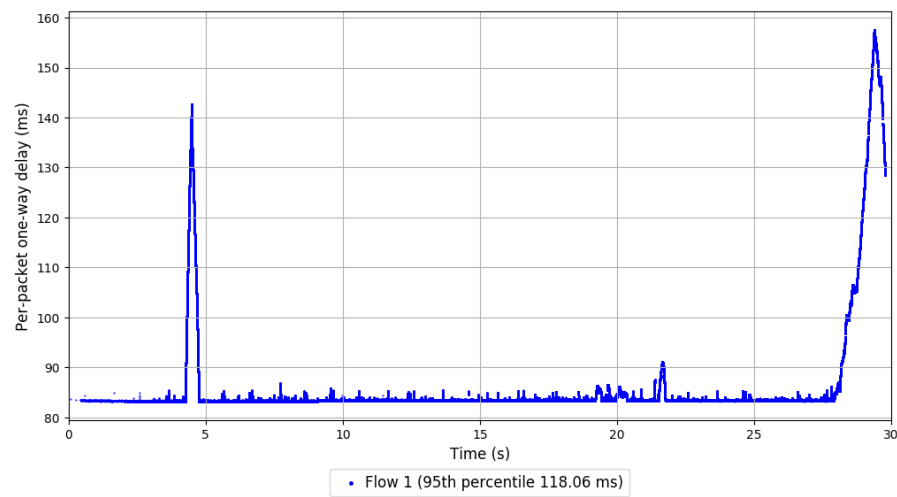
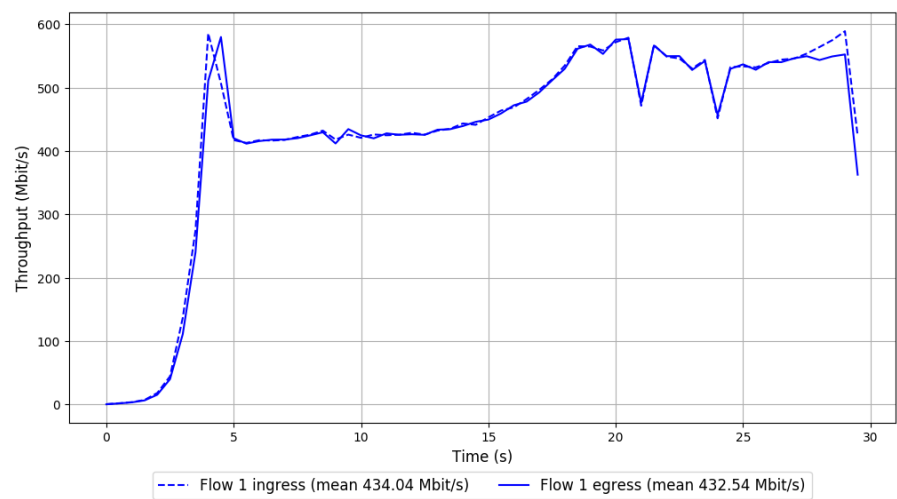


```
Run 10: Statistics of Vivace-loss

Start at: 2018-02-12 21:51:18
End at: 2018-02-12 21:51:48

# Below is generated by plot.py at 2018-02-13 01:44:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 432.54 Mbit/s
95th percentile per-packet one-way delay: 118.064 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 432.54 Mbit/s
95th percentile per-packet one-way delay: 118.064 ms
Loss rate: 0.92%
```

Run 10: Report of Vivace-loss — Data Link

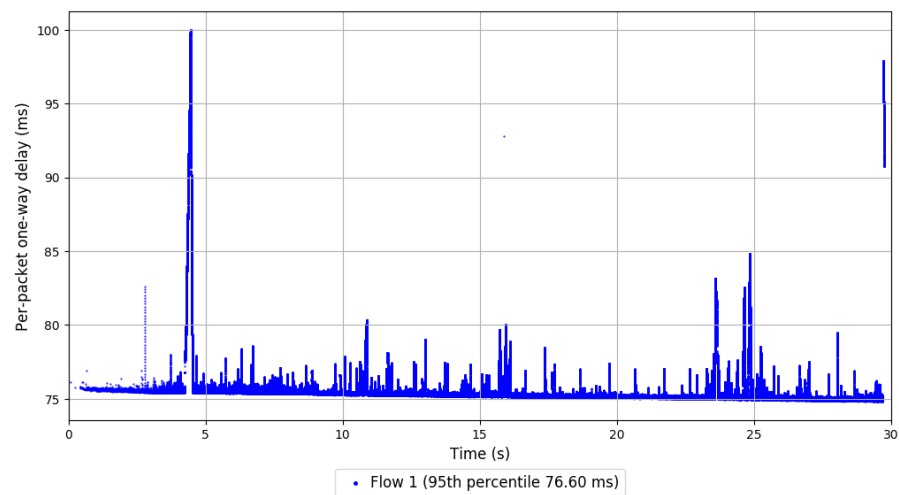
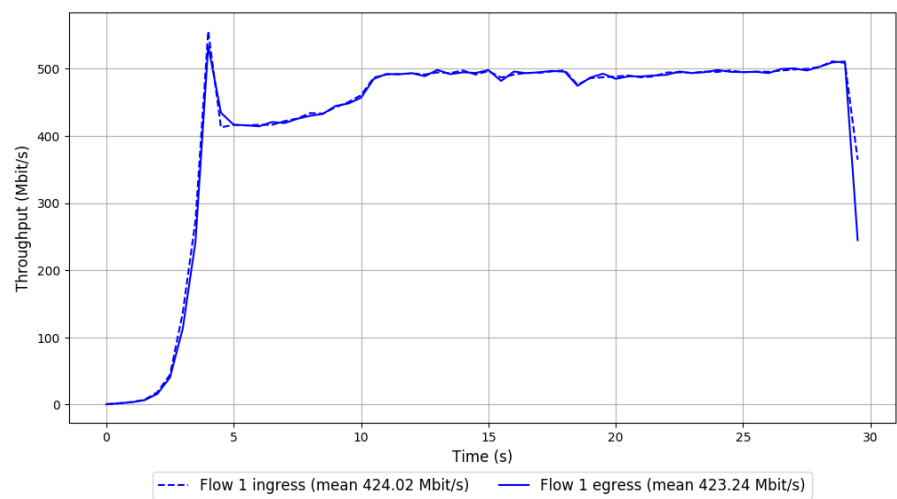


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-12 19:19:37
End at: 2018-02-12 19:20:07

# Below is generated by plot.py at 2018-02-13 01:46:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 423.24 Mbit/s
95th percentile per-packet one-way delay: 76.601 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 423.24 Mbit/s
95th percentile per-packet one-way delay: 76.601 ms
Loss rate: 0.77%
```

Run 1: Report of Vivace-LTE — Data Link

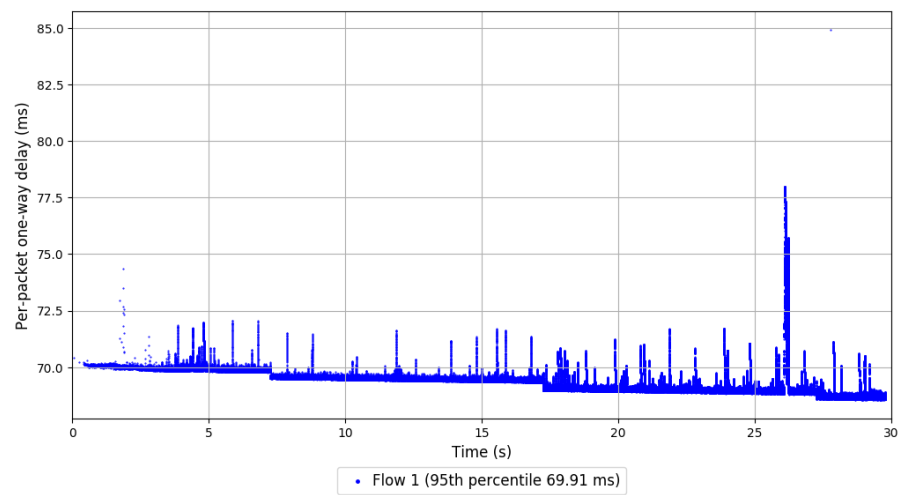
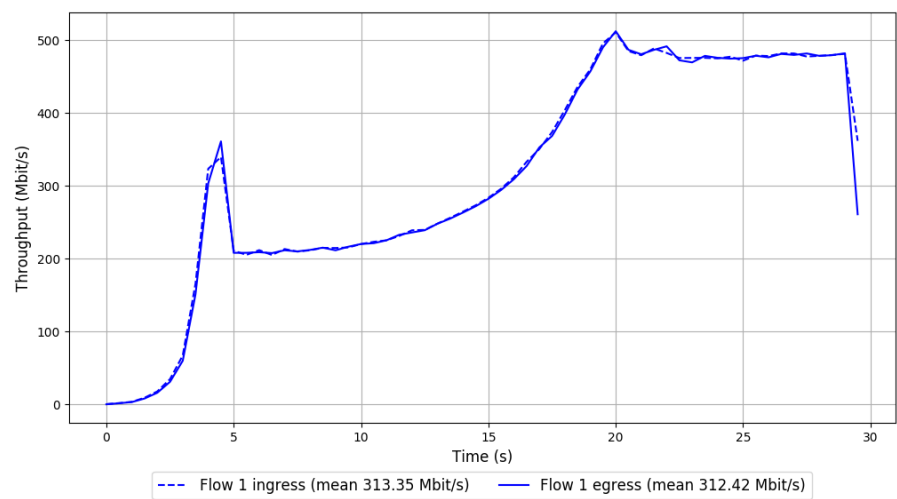


```
Run 2: Statistics of Vivace-LTE

Start at: 2018-02-12 19:34:59
End at: 2018-02-12 19:35:29

# Below is generated by plot.py at 2018-02-13 01:46:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 312.42 Mbit/s
95th percentile per-packet one-way delay: 69.905 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 312.42 Mbit/s
95th percentile per-packet one-way delay: 69.905 ms
Loss rate: 0.88%
```

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-12 19:50:11

End at: 2018-02-12 19:50:41

Below is generated by plot.py at 2018-02-13 01:47:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 423.15 Mbit/s

95th percentile per-packet one-way delay: 72.030 ms

Loss rate: 0.70%

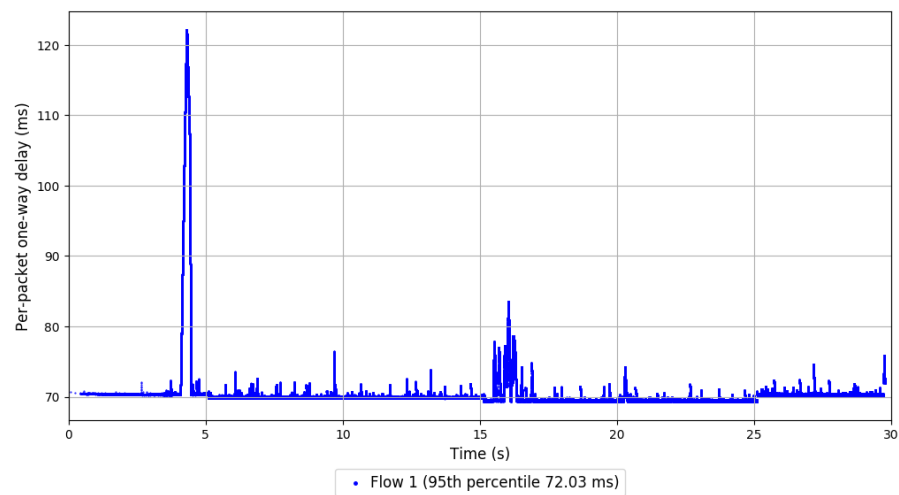
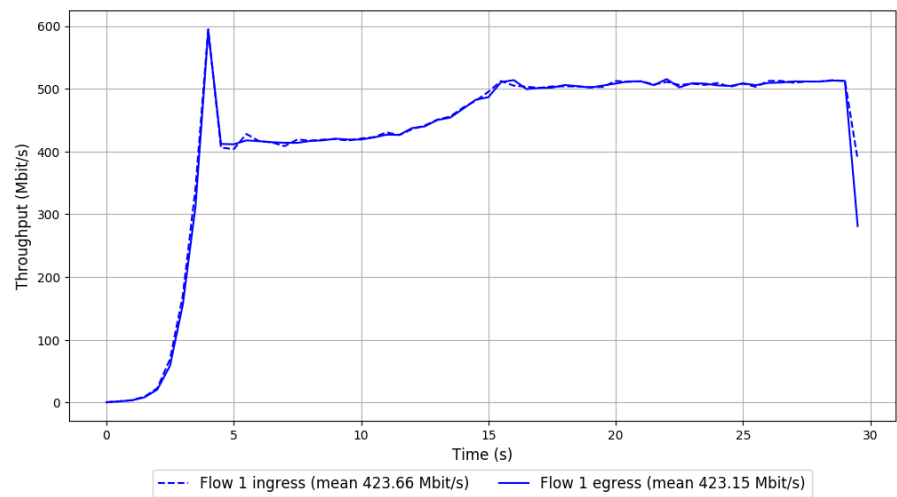
-- Flow 1:

Average throughput: 423.15 Mbit/s

95th percentile per-packet one-way delay: 72.030 ms

Loss rate: 0.70%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-12 20:05:30

End at: 2018-02-12 20:06:00

Below is generated by plot.py at 2018-02-13 01:48:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 430.15 Mbit/s

95th percentile per-packet one-way delay: 77.905 ms

Loss rate: 1.78%

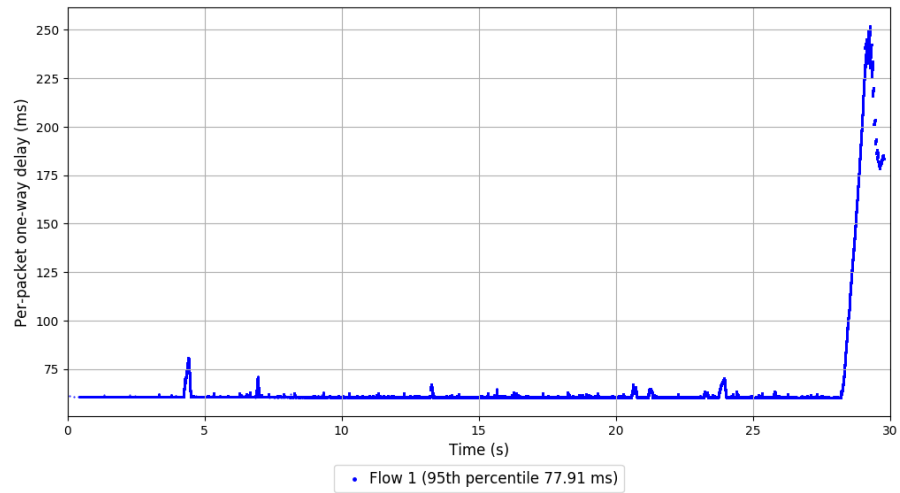
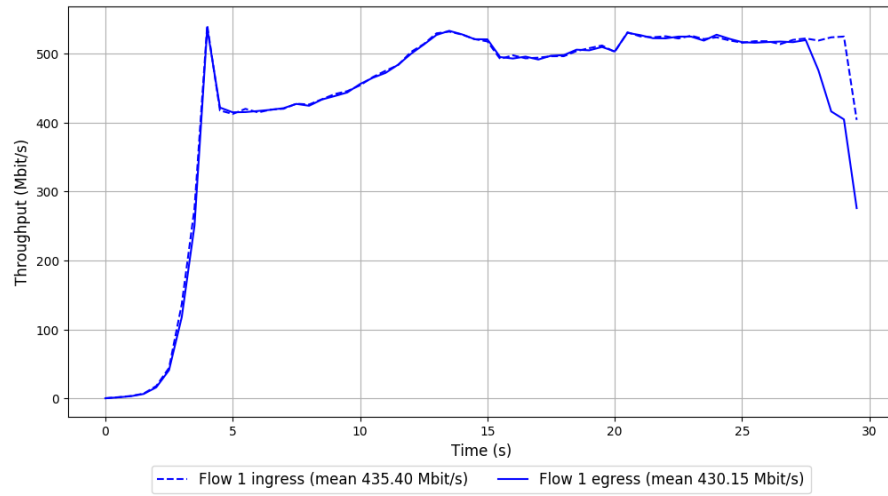
-- Flow 1:

Average throughput: 430.15 Mbit/s

95th percentile per-packet one-way delay: 77.905 ms

Loss rate: 1.78%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-12 20:20:58

End at: 2018-02-12 20:21:28

Below is generated by plot.py at 2018-02-13 01:48:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 421.90 Mbit/s

95th percentile per-packet one-way delay: 70.837 ms

Loss rate: 0.73%

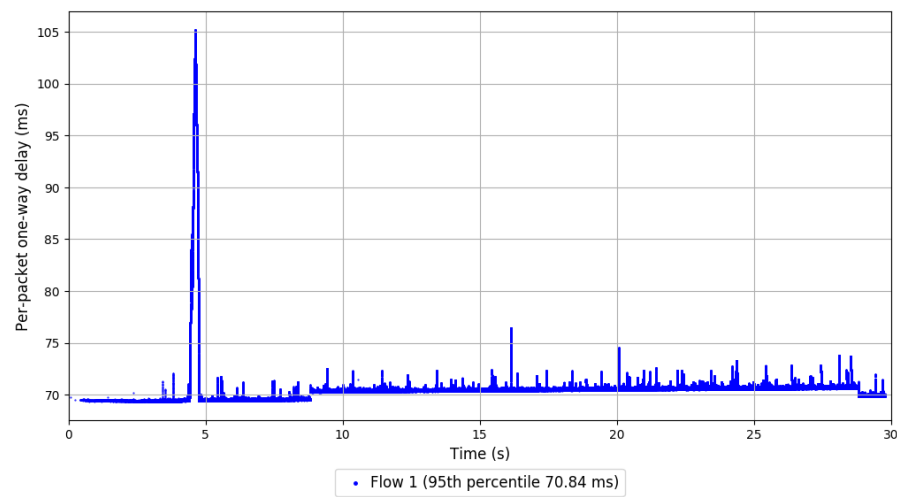
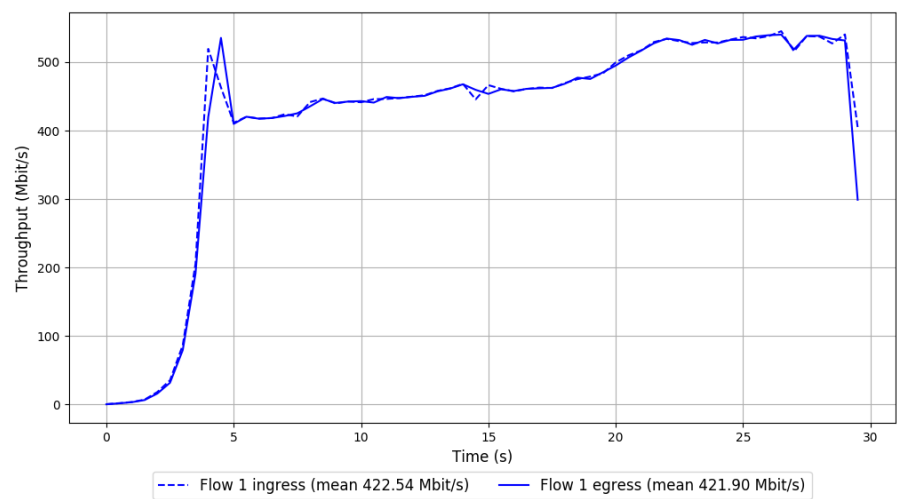
-- Flow 1:

Average throughput: 421.90 Mbit/s

95th percentile per-packet one-way delay: 70.837 ms

Loss rate: 0.73%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-12 20:36:22

End at: 2018-02-12 20:36:52

Below is generated by plot.py at 2018-02-13 01:49:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 423.12 Mbit/s

95th percentile per-packet one-way delay: 74.920 ms

Loss rate: 0.73%

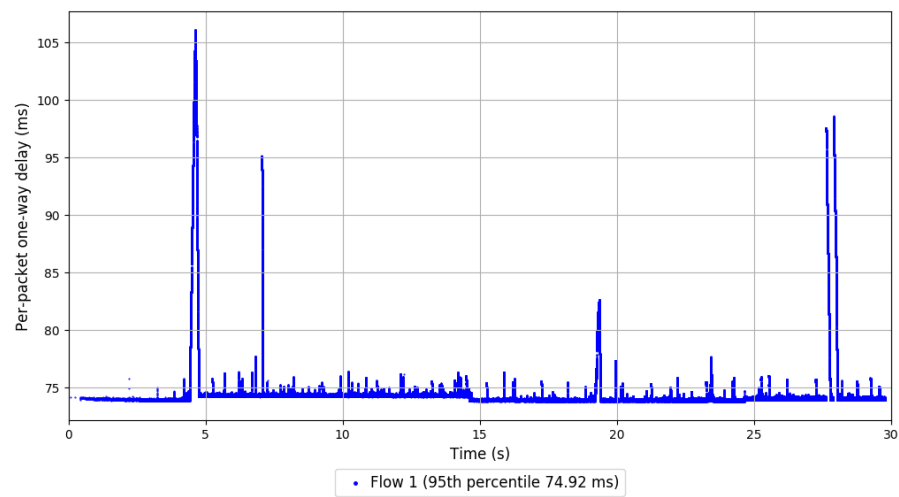
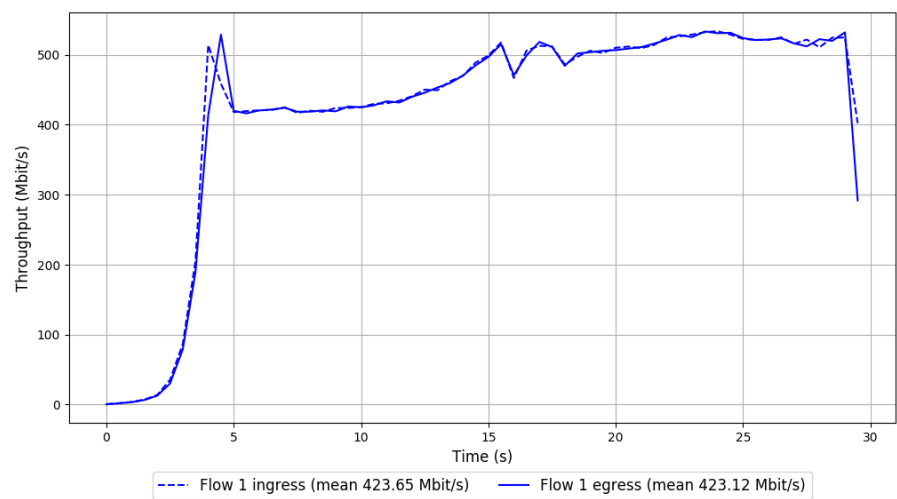
-- Flow 1:

Average throughput: 423.12 Mbit/s

95th percentile per-packet one-way delay: 74.920 ms

Loss rate: 0.73%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-12 20:51:41

End at: 2018-02-12 20:52:11

Below is generated by plot.py at 2018-02-13 01:49:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 440.39 Mbit/s

95th percentile per-packet one-way delay: 77.398 ms

Loss rate: 0.64%

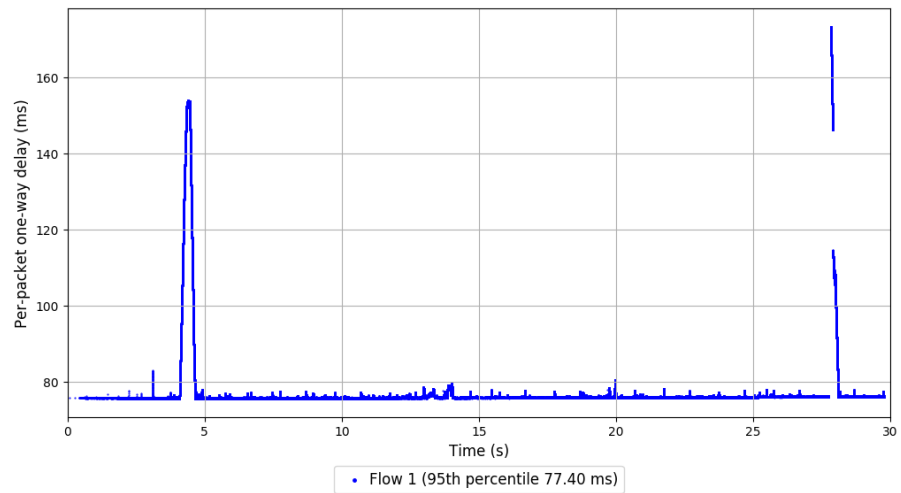
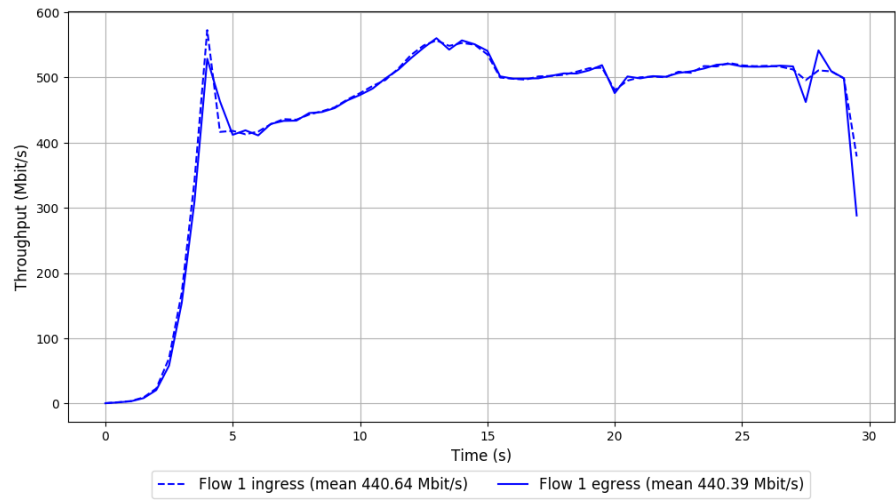
-- Flow 1:

Average throughput: 440.39 Mbit/s

95th percentile per-packet one-way delay: 77.398 ms

Loss rate: 0.64%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-12 21:07:10

End at: 2018-02-12 21:07:40

Below is generated by plot.py at 2018-02-13 01:50:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 435.32 Mbit/s

95th percentile per-packet one-way delay: 79.483 ms

Loss rate: 0.70%

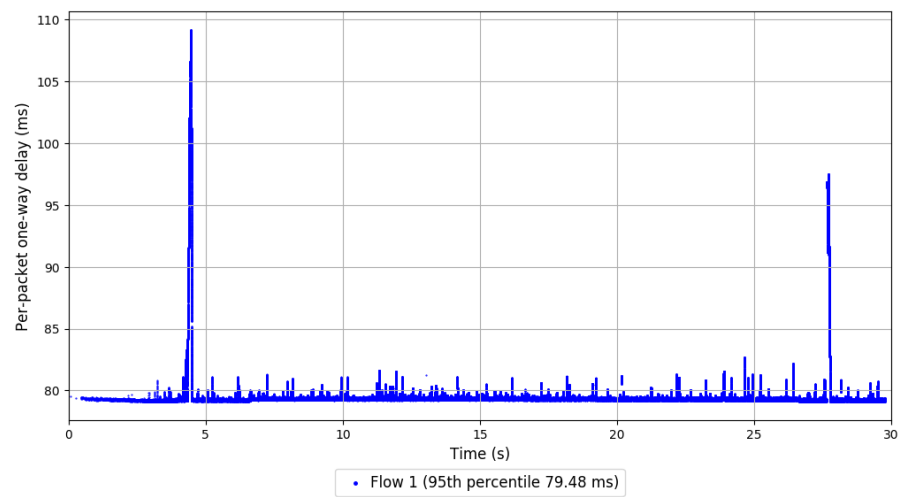
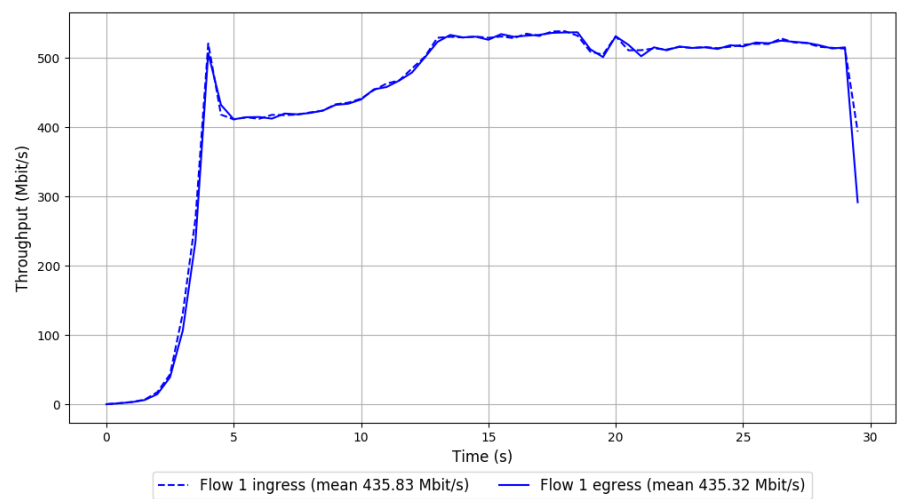
-- Flow 1:

Average throughput: 435.32 Mbit/s

95th percentile per-packet one-way delay: 79.483 ms

Loss rate: 0.70%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-12 21:22:39

End at: 2018-02-12 21:23:09

Below is generated by plot.py at 2018-02-13 01:50:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 433.27 Mbit/s

95th percentile per-packet one-way delay: 107.869 ms

Loss rate: 0.81%

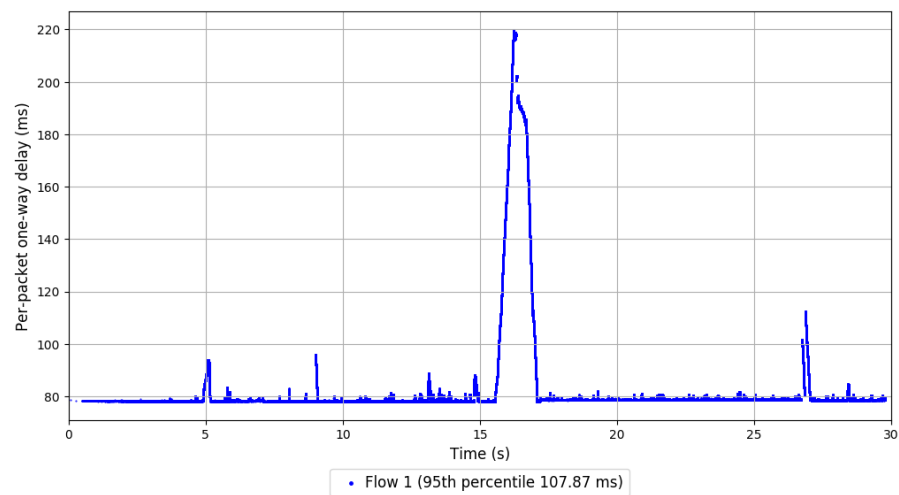
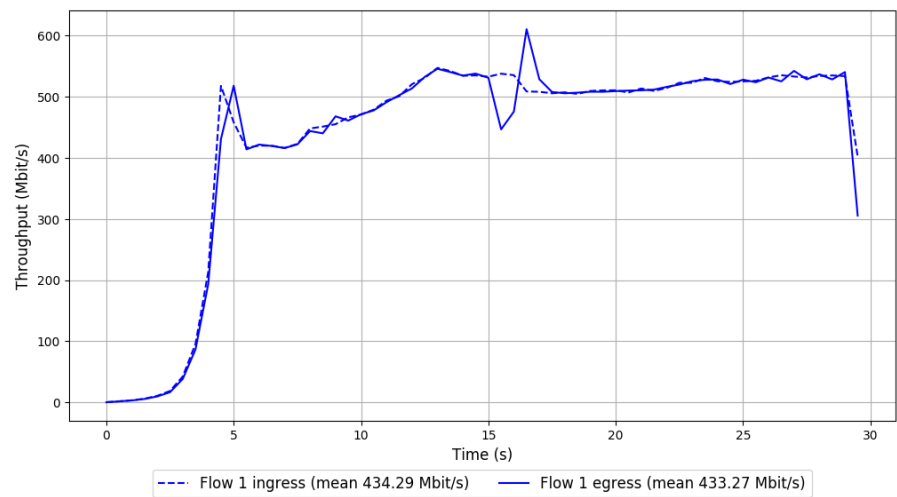
-- Flow 1:

Average throughput: 433.27 Mbit/s

95th percentile per-packet one-way delay: 107.869 ms

Loss rate: 0.81%

Run 9: Report of Vivace-LTE — Data Link



```
Run 10: Statistics of Vivace-LTE

Start at: 2018-02-12 21:37:55
End at: 2018-02-12 21:38:25

# Below is generated by plot.py at 2018-02-13 01:50:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 414.22 Mbit/s
95th percentile per-packet one-way delay: 84.115 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 414.22 Mbit/s
95th percentile per-packet one-way delay: 84.115 ms
Loss rate: 0.72%
```

Run 10: Report of Vivace-LTE — Data Link

