

Pantheon Report

Generated at 2018-02-19 23:28:24 (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.

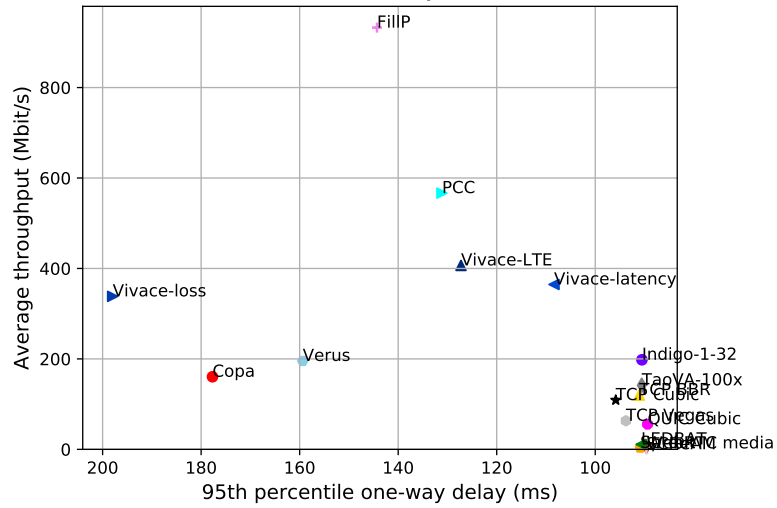
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

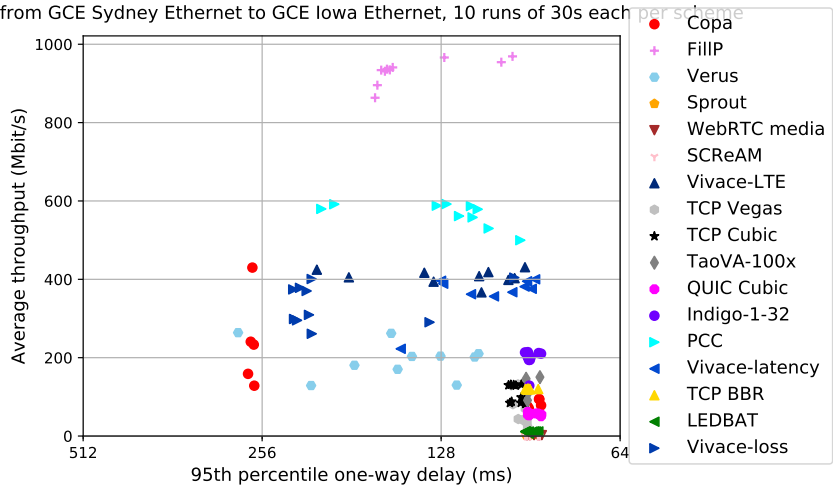
Git summary:

```
branch: master @ f12c42a2c63fdd9a862eefa0468859bf379b6623
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from GCE 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	120.01	91.08	0.61
TCP Cubic	10	108.96	95.84	0.73
LEDBAT	10	10.92	90.70	1.21
PCC	10	566.64	131.11	1.31
QUIC Cubic	10	55.66	89.38	0.90
SCReAM	10	0.22	89.62	0.51
WebRTC media	10	2.15	89.60	0.76
Sprout	10	3.24	90.87	0.86
TaoVA-100x	5	141.56	90.56	0.37
TCP Vegas	10	63.14	93.77	0.63
Verus	10	195.49	159.38	2.08
Copa	10	160.51	177.70	17.24
FillP	10	932.54	144.31	3.43
Indigo-1-32	10	198.03	90.52	0.64
Vivace-latency	10	364.56	108.37	0.77
Vivace-loss	10	338.28	197.96	3.64
Vivace-LTE	10	406.68	127.25	0.76

Run 1: Statistics of TCP BBR

Start at: 2018-02-19 16:57:13

End at: 2018-02-19 16:57:43

Below is generated by plot.py at 2018-02-19 22:04:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 121.27 Mbit/s

95th percentile per-packet one-way delay: 91.432 ms

Loss rate: 0.59%

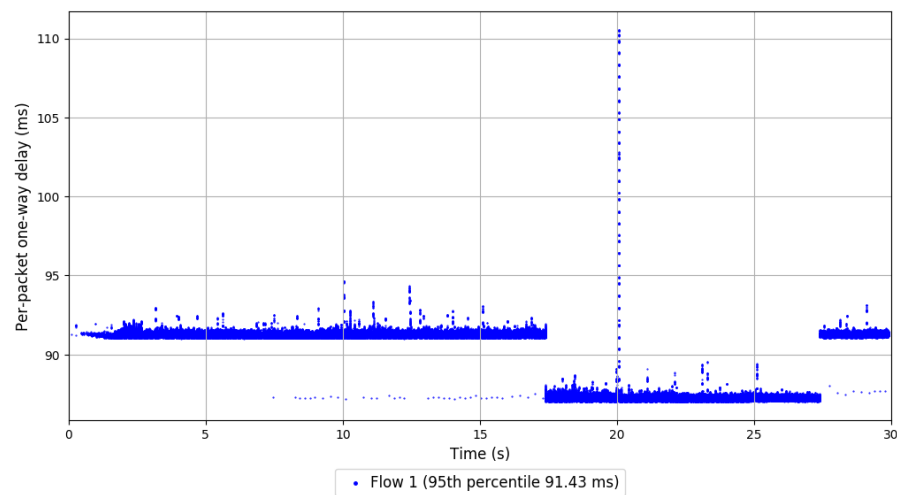
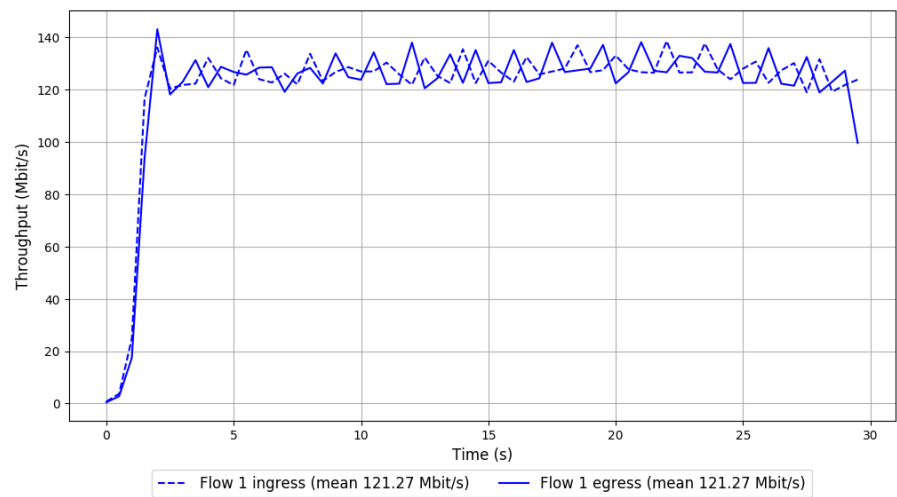
-- Flow 1:

Average throughput: 121.27 Mbit/s

95th percentile per-packet one-way delay: 91.432 ms

Loss rate: 0.59%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-19 17:12:21

End at: 2018-02-19 17:12:51

Below is generated by plot.py at 2018-02-19 22:04:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 120.21 Mbit/s

95th percentile per-packet one-way delay: 91.427 ms

Loss rate: 0.62%

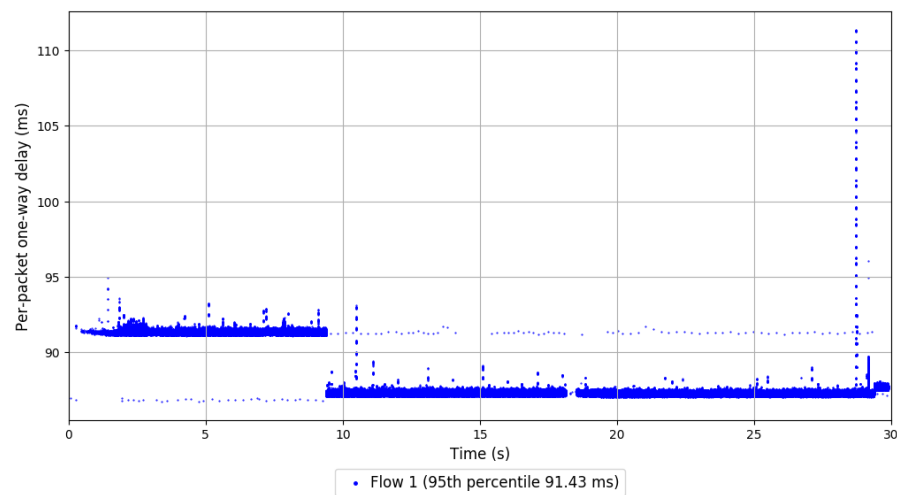
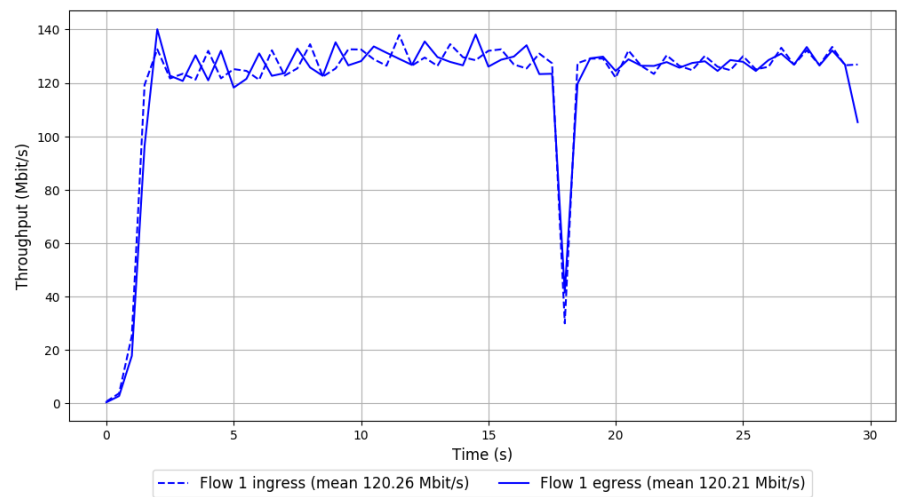
-- Flow 1:

Average throughput: 120.21 Mbit/s

95th percentile per-packet one-way delay: 91.427 ms

Loss rate: 0.62%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-19 17:27:13

End at: 2018-02-19 17:27:43

Below is generated by plot.py at 2018-02-19 22:04:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 119.95 Mbit/s

95th percentile per-packet one-way delay: 87.886 ms

Loss rate: 0.62%

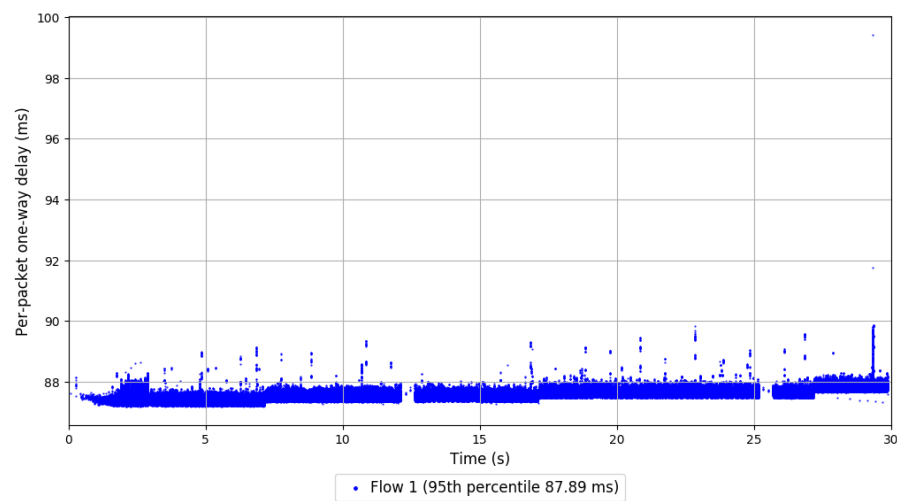
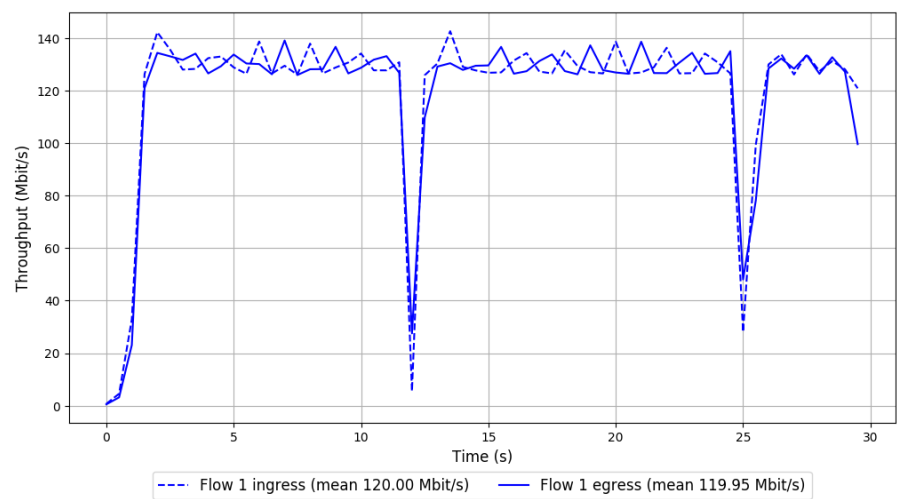
-- Flow 1:

Average throughput: 119.95 Mbit/s

95th percentile per-packet one-way delay: 87.886 ms

Loss rate: 0.62%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-19 17:42:15

End at: 2018-02-19 17:42:45

Below is generated by plot.py at 2018-02-19 22:04:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 120.42 Mbit/s

95th percentile per-packet one-way delay: 92.312 ms

Loss rate: 0.57%

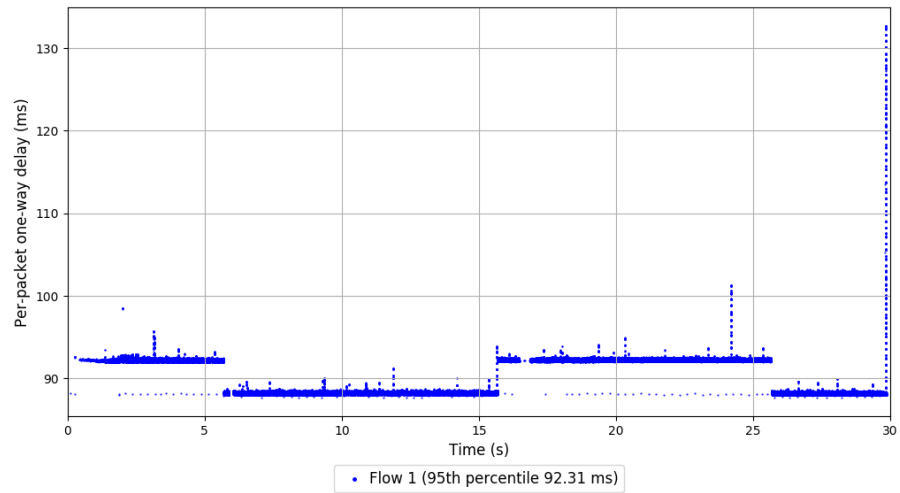
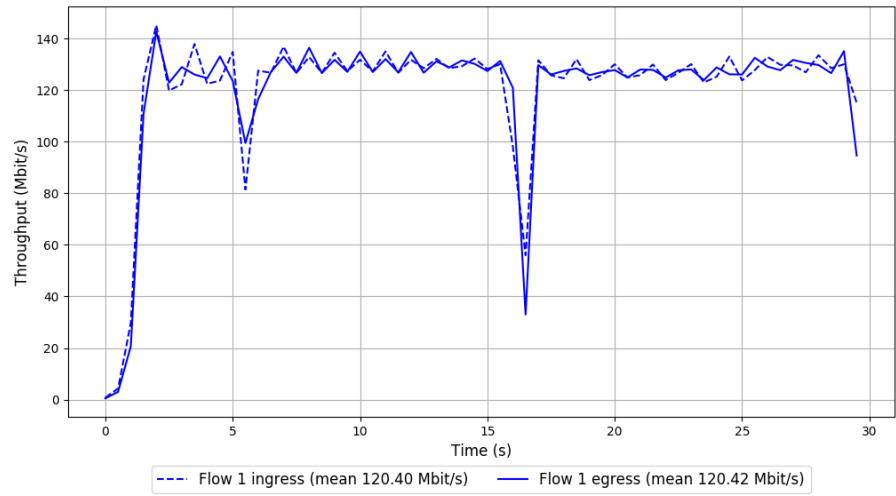
-- Flow 1:

Average throughput: 120.42 Mbit/s

95th percentile per-packet one-way delay: 92.312 ms

Loss rate: 0.57%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-19 17:57:40

End at: 2018-02-19 17:58:10

Below is generated by plot.py at 2018-02-19 22:04:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 119.11 Mbit/s

95th percentile per-packet one-way delay: 92.043 ms

Loss rate: 0.61%

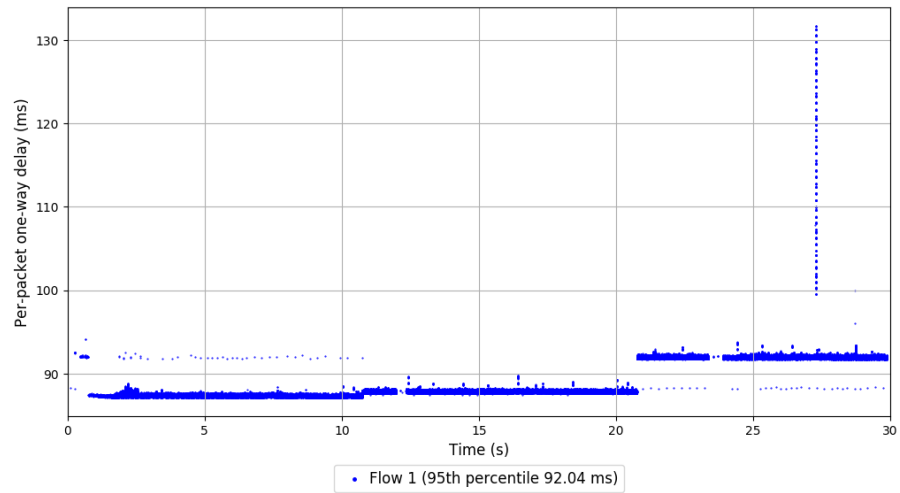
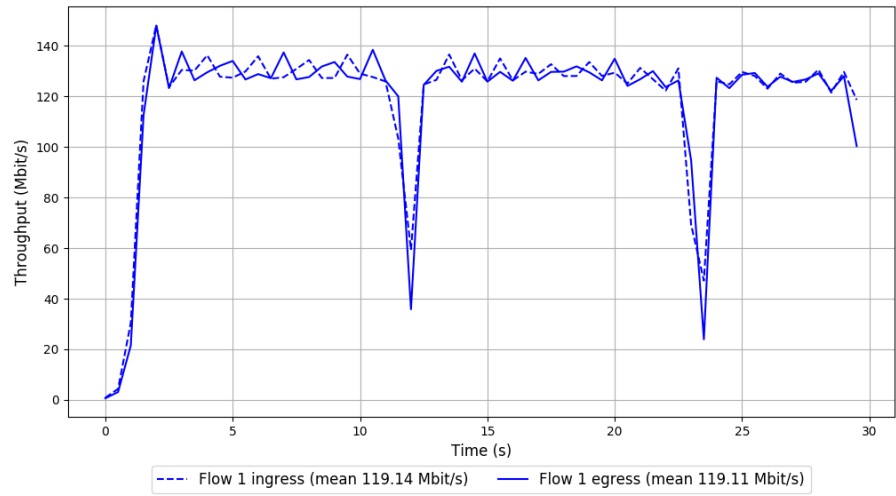
-- Flow 1:

Average throughput: 119.11 Mbit/s

95th percentile per-packet one-way delay: 92.043 ms

Loss rate: 0.61%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-19 18:12:58

End at: 2018-02-19 18:13:28

Below is generated by plot.py at 2018-02-19 22:04:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 119.09 Mbit/s

95th percentile per-packet one-way delay: 91.570 ms

Loss rate: 0.63%

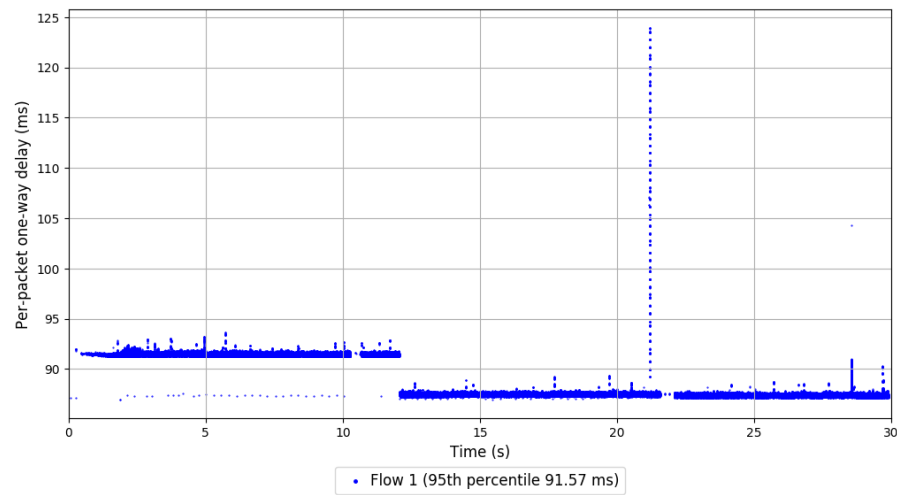
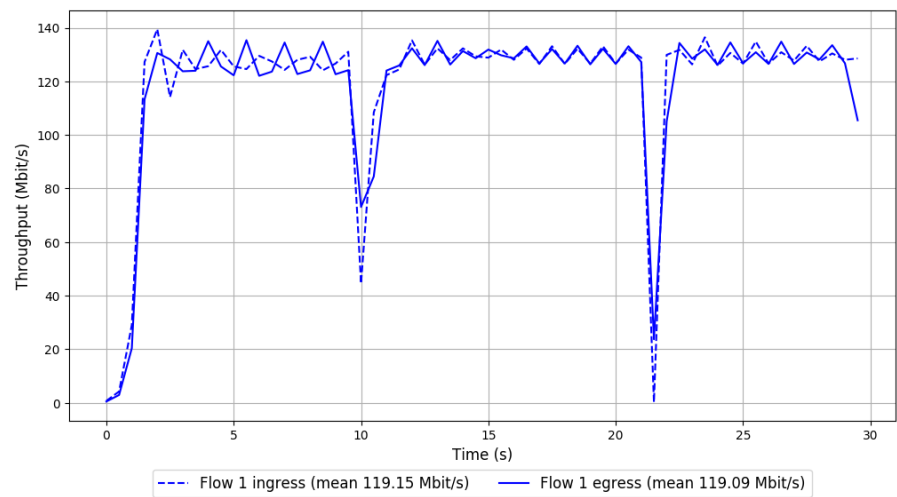
-- Flow 1:

Average throughput: 119.09 Mbit/s

95th percentile per-packet one-way delay: 91.570 ms

Loss rate: 0.63%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-19 18:28:27

End at: 2018-02-19 18:28:57

Below is generated by plot.py at 2018-02-19 22:04:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 120.11 Mbit/s

95th percentile per-packet one-way delay: 91.635 ms

Loss rate: 0.62%

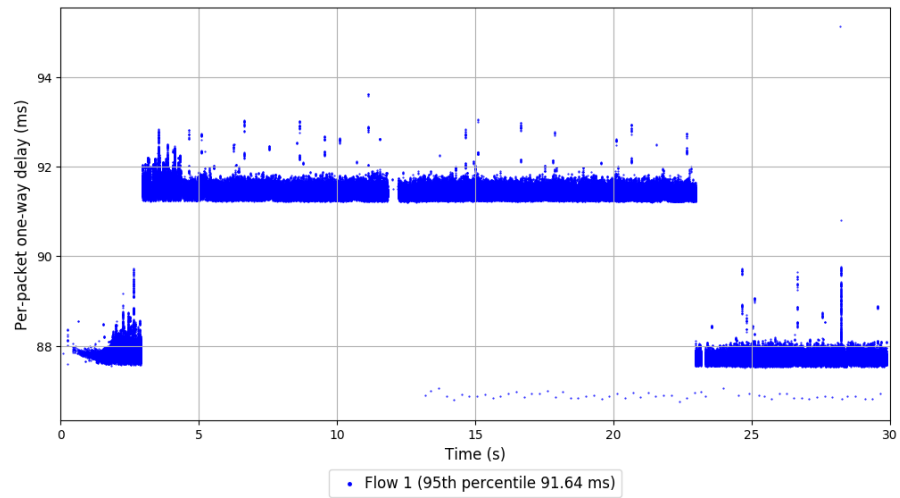
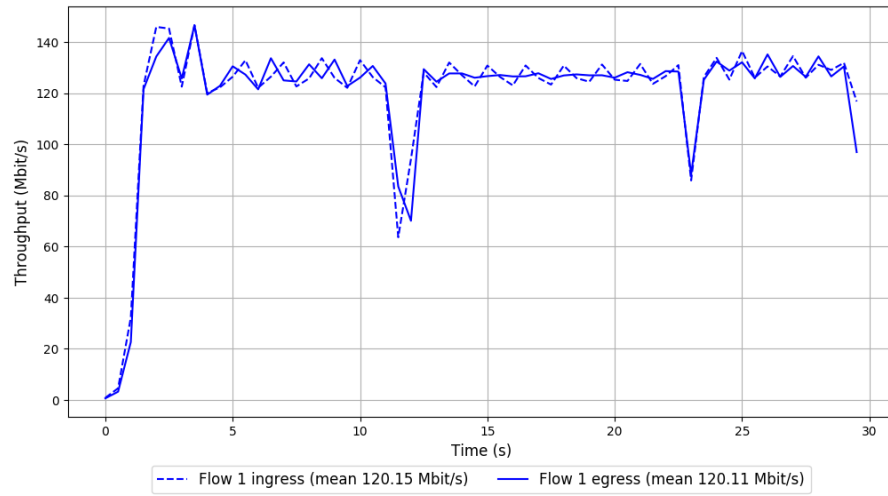
-- Flow 1:

Average throughput: 120.11 Mbit/s

95th percentile per-packet one-way delay: 91.635 ms

Loss rate: 0.62%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-19 18:44:08

End at: 2018-02-19 18:44:38

Below is generated by plot.py at 2018-02-19 22:04:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 120.13 Mbit/s

95th percentile per-packet one-way delay: 90.824 ms

Loss rate: 0.62%

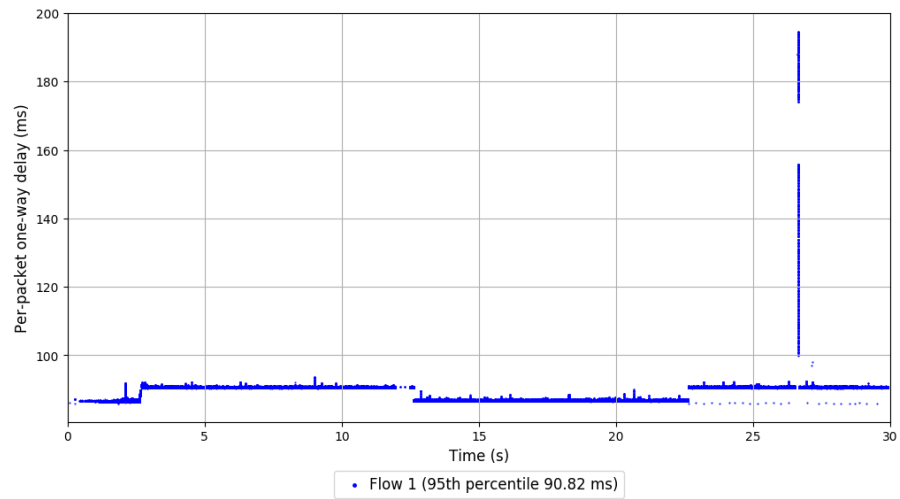
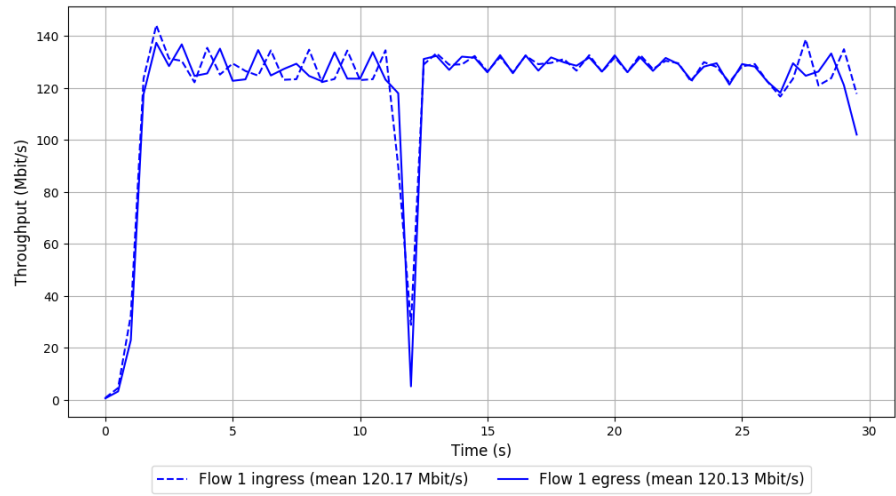
-- Flow 1:

Average throughput: 120.13 Mbit/s

95th percentile per-packet one-way delay: 90.824 ms

Loss rate: 0.62%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-19 19:00:08

End at: 2018-02-19 19:00:38

Below is generated by plot.py at 2018-02-19 22:06:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 119.87 Mbit/s

95th percentile per-packet one-way delay: 90.792 ms

Loss rate: 0.65%

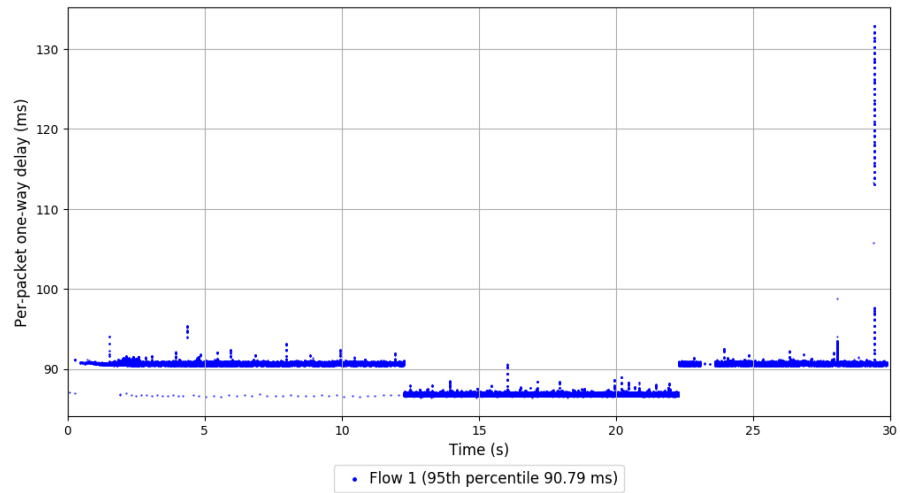
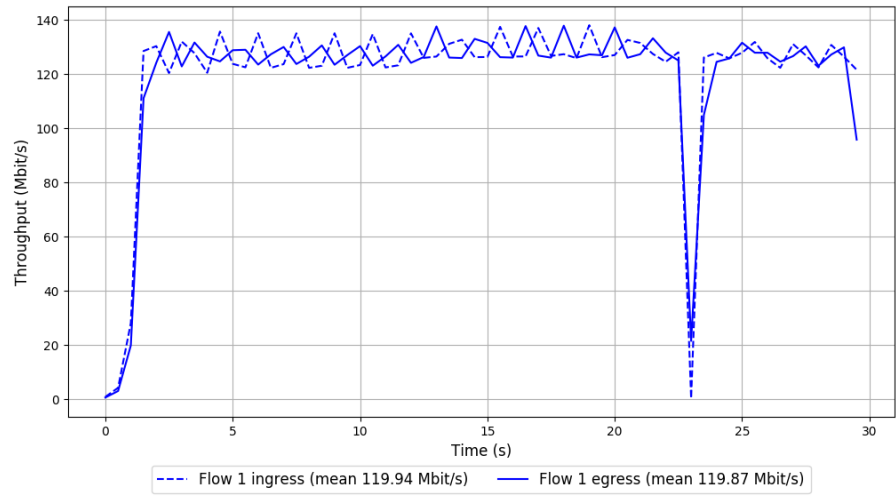
-- Flow 1:

Average throughput: 119.87 Mbit/s

95th percentile per-packet one-way delay: 90.792 ms

Loss rate: 0.65%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-19 19:15:05

End at: 2018-02-19 19:15:35

Below is generated by plot.py at 2018-02-19 22:06:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 119.93 Mbit/s

95th percentile per-packet one-way delay: 90.861 ms

Loss rate: 0.62%

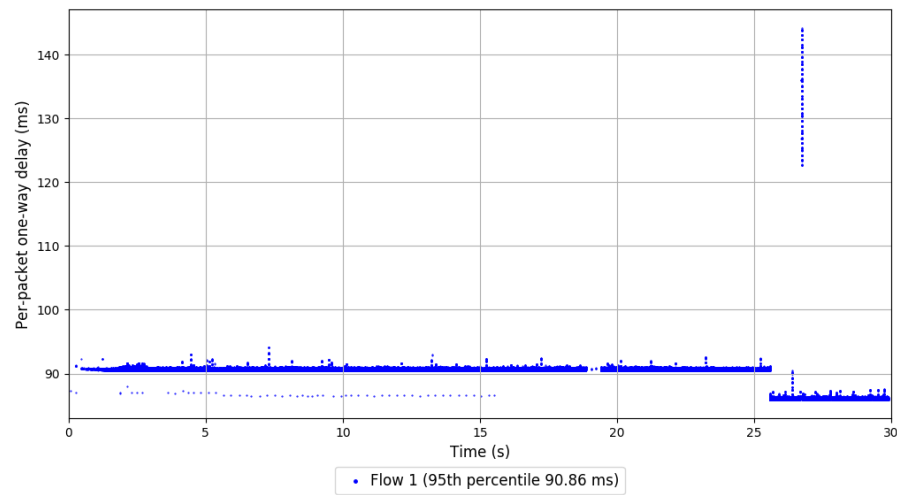
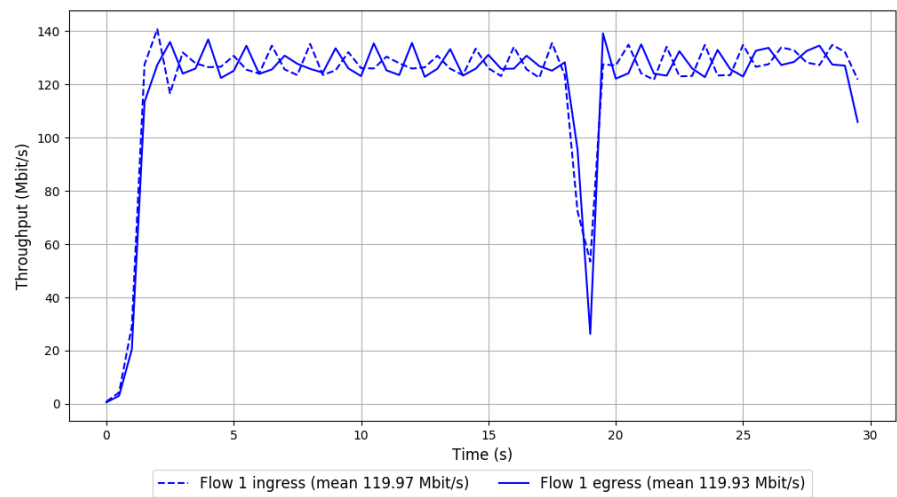
-- Flow 1:

Average throughput: 119.93 Mbit/s

95th percentile per-packet one-way delay: 90.861 ms

Loss rate: 0.62%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-19 16:56:29

End at: 2018-02-19 16:56:59

Below is generated by plot.py at 2018-02-19 22:06:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.77 Mbit/s

95th percentile per-packet one-way delay: 97.434 ms

Loss rate: 0.92%

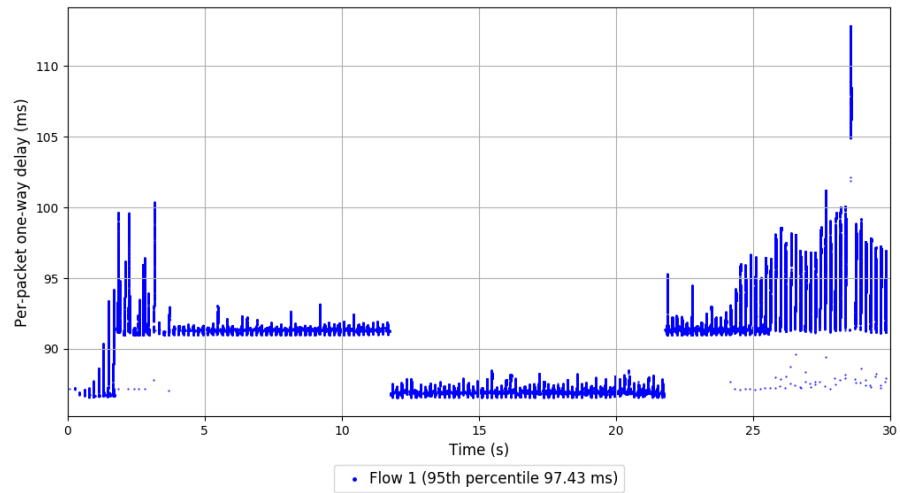
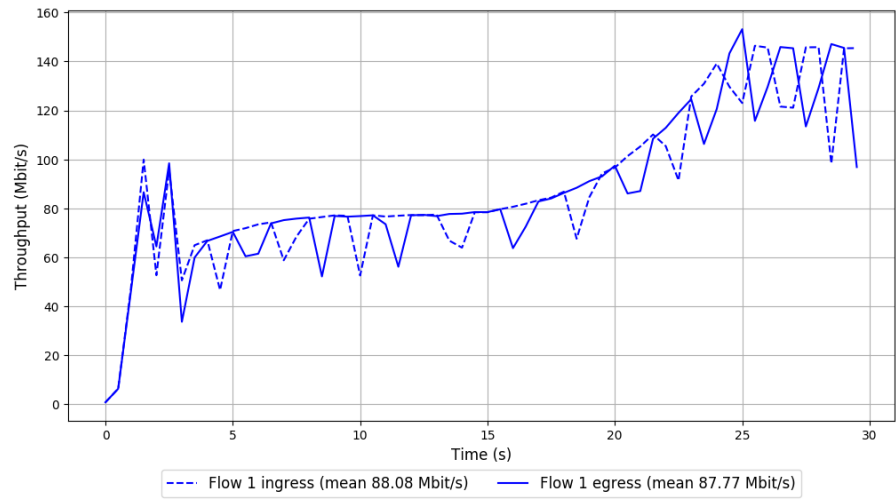
-- Flow 1:

Average throughput: 87.77 Mbit/s

95th percentile per-packet one-way delay: 97.434 ms

Loss rate: 0.92%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-19 17:11:34

End at: 2018-02-19 17:12:04

Below is generated by plot.py at 2018-02-19 22:07:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 129.73 Mbit/s

95th percentile per-packet one-way delay: 98.604 ms

Loss rate: 0.63%

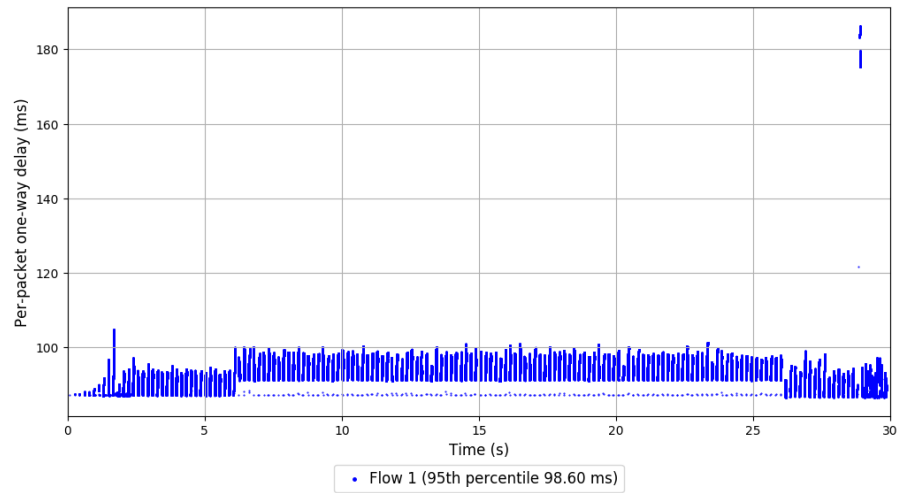
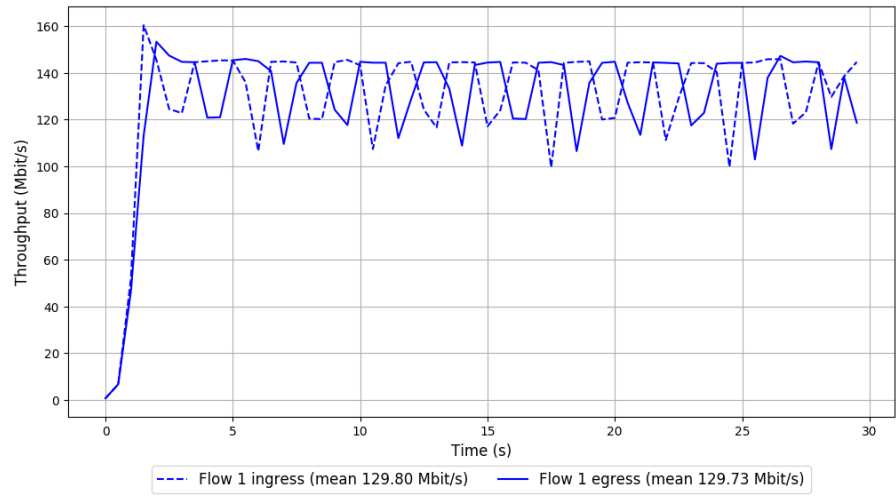
-- Flow 1:

Average throughput: 129.73 Mbit/s

95th percentile per-packet one-way delay: 98.604 ms

Loss rate: 0.63%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-19 17:26:27

End at: 2018-02-19 17:26:57

Below is generated by plot.py at 2018-02-19 22:07:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.64 Mbit/s

95th percentile per-packet one-way delay: 93.807 ms

Loss rate: 0.65%

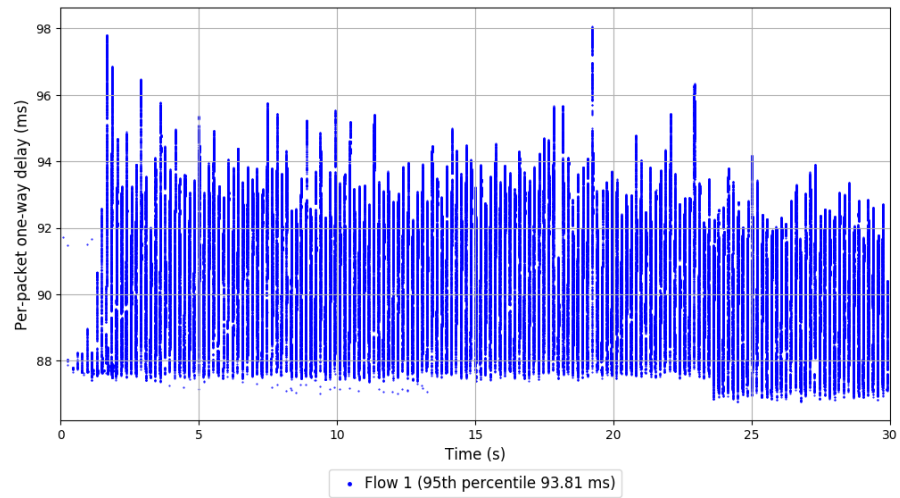
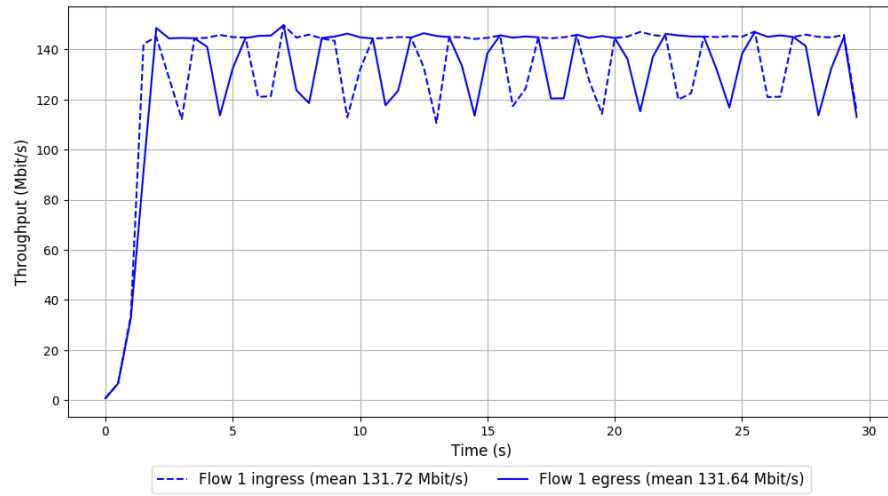
-- Flow 1:

Average throughput: 131.64 Mbit/s

95th percentile per-packet one-way delay: 93.807 ms

Loss rate: 0.65%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-19 17:41:30

End at: 2018-02-19 17:42:00

Below is generated by plot.py at 2018-02-19 22:07:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.74 Mbit/s

95th percentile per-packet one-way delay: 93.884 ms

Loss rate: 0.82%

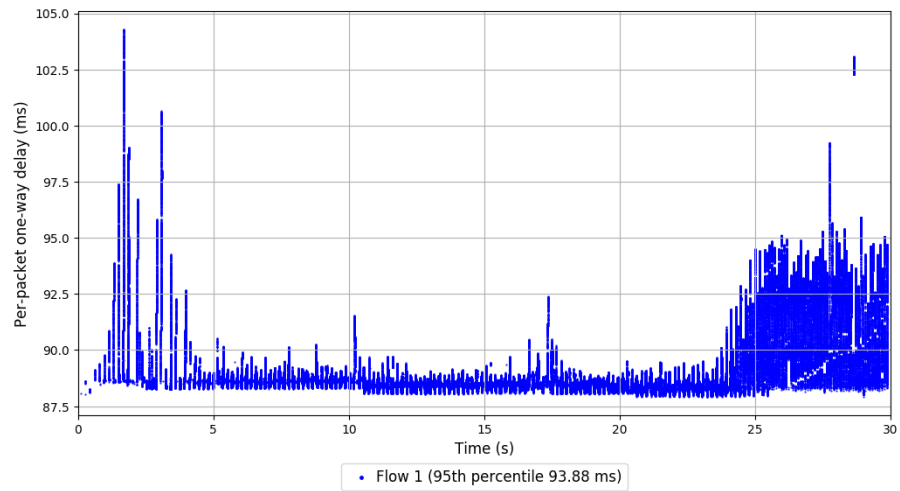
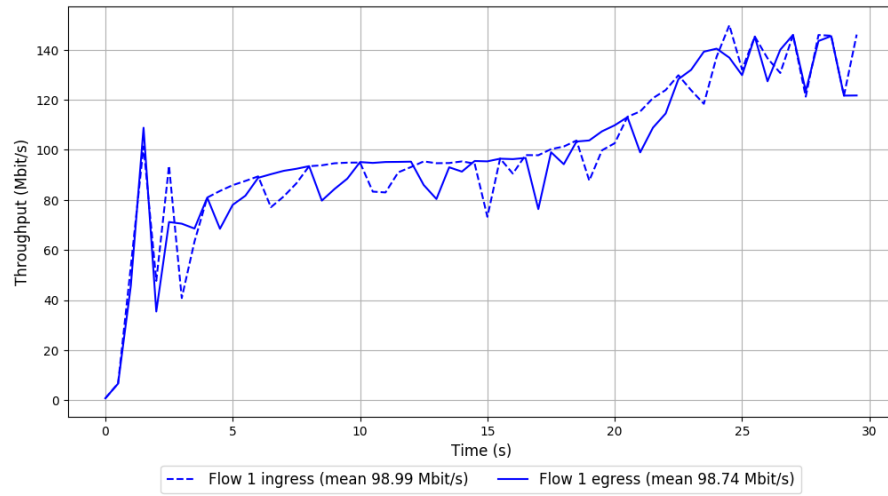
-- Flow 1:

Average throughput: 98.74 Mbit/s

95th percentile per-packet one-way delay: 93.884 ms

Loss rate: 0.82%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-19 17:56:56

End at: 2018-02-19 17:57:26

Below is generated by plot.py at 2018-02-19 22:07:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.72 Mbit/s

95th percentile per-packet one-way delay: 94.023 ms

Loss rate: 0.96%

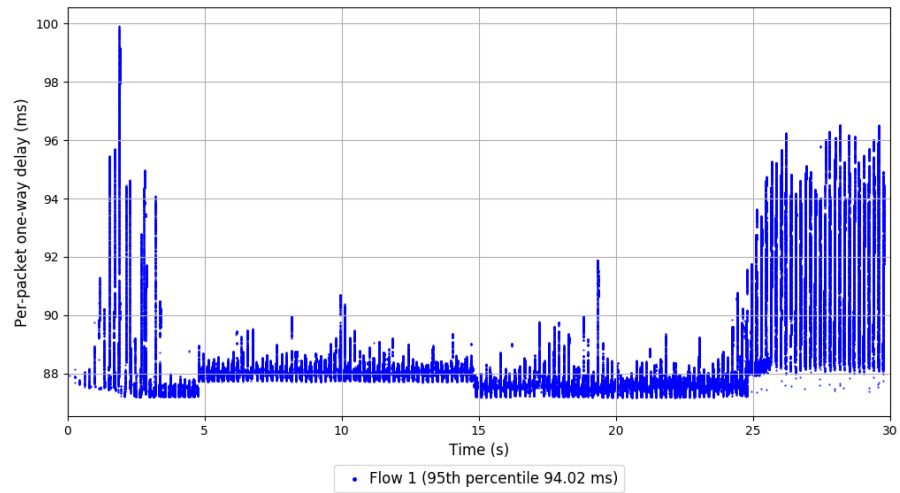
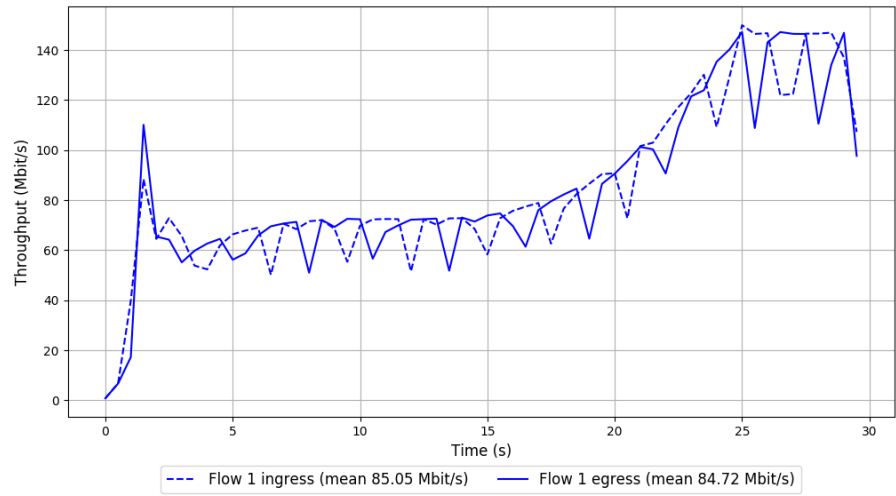
-- Flow 1:

Average throughput: 84.72 Mbit/s

95th percentile per-packet one-way delay: 94.023 ms

Loss rate: 0.96%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-19 18:12:14

End at: 2018-02-19 18:12:44

Below is generated by plot.py at 2018-02-19 22:07:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.52 Mbit/s

95th percentile per-packet one-way delay: 98.068 ms

Loss rate: 0.47%

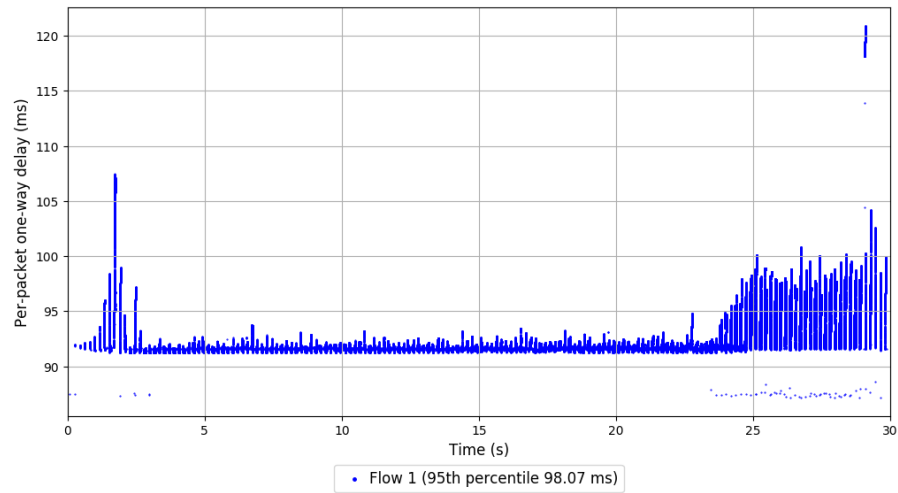
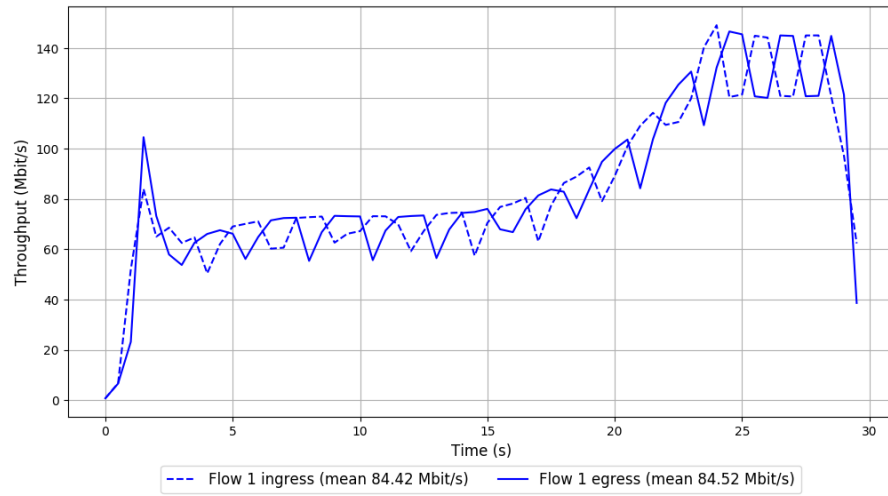
-- Flow 1:

Average throughput: 84.52 Mbit/s

95th percentile per-packet one-way delay: 98.068 ms

Loss rate: 0.47%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-19 18:27:41

End at: 2018-02-19 18:28:11

Below is generated by plot.py at 2018-02-19 22:08:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.12 Mbit/s

95th percentile per-packet one-way delay: 97.726 ms

Loss rate: 0.61%

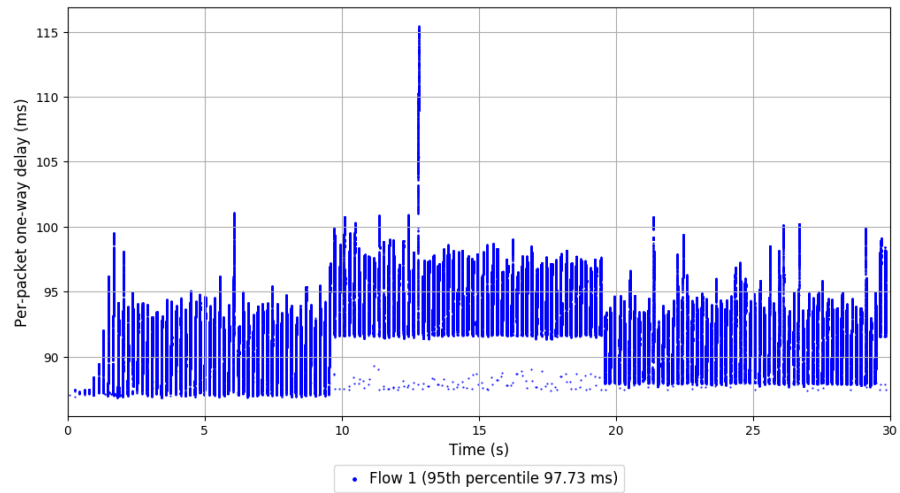
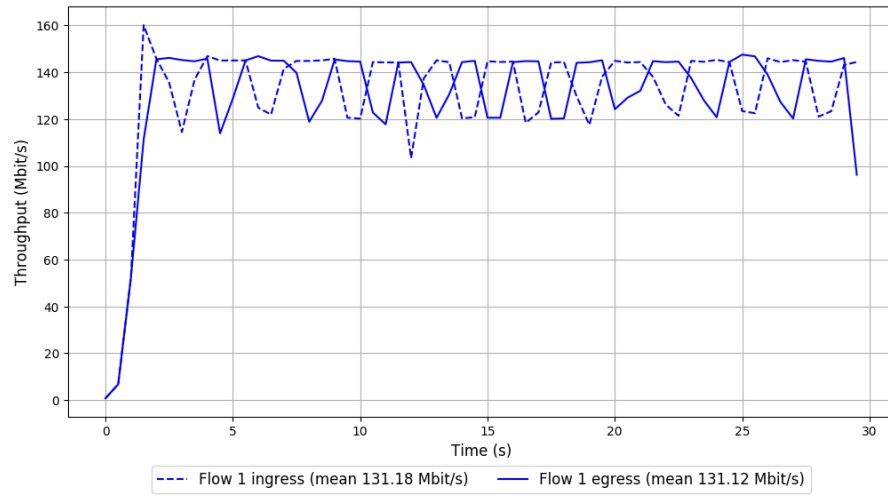
-- Flow 1:

Average throughput: 131.12 Mbit/s

95th percentile per-packet one-way delay: 97.726 ms

Loss rate: 0.61%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-19 18:43:21

End at: 2018-02-19 18:43:51

Below is generated by plot.py at 2018-02-19 22:08:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.40 Mbit/s

95th percentile per-packet one-way delay: 96.651 ms

Loss rate: 0.60%

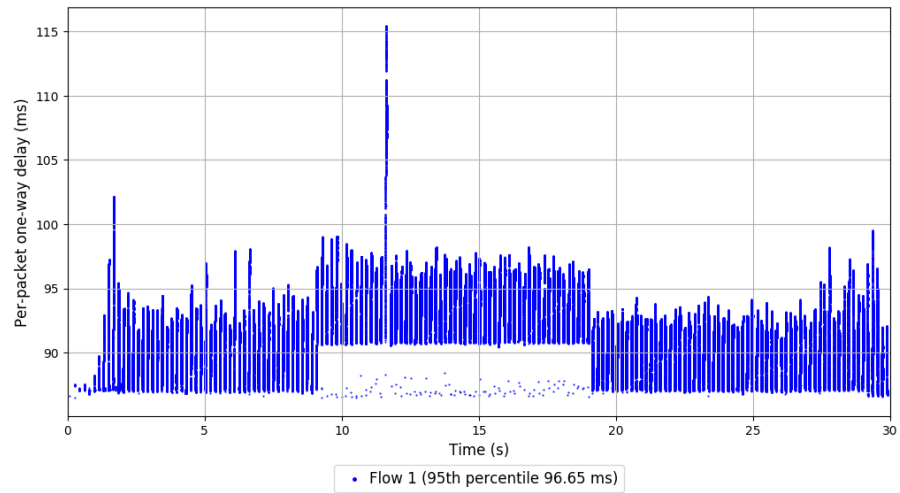
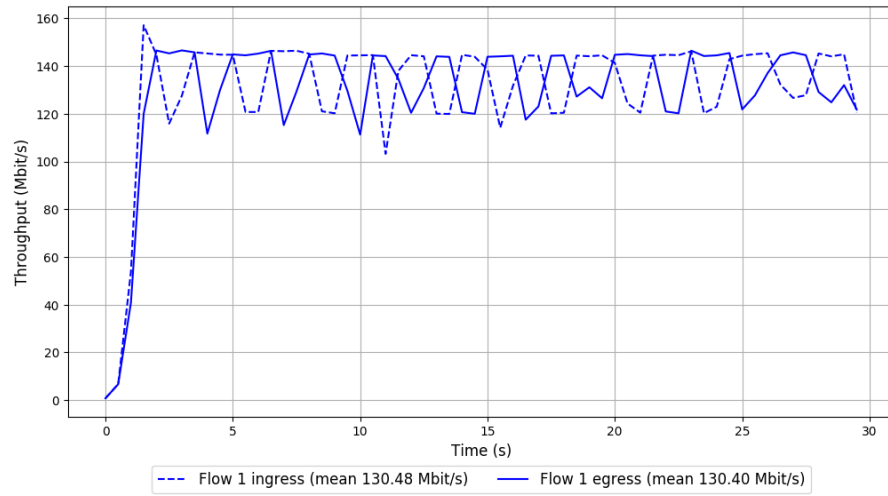
-- Flow 1:

Average throughput: 130.40 Mbit/s

95th percentile per-packet one-way delay: 96.651 ms

Loss rate: 0.60%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-19 18:59:22

End at: 2018-02-19 18:59:52

Below is generated by plot.py at 2018-02-19 22:08:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 128.90 Mbit/s

95th percentile per-packet one-way delay: 95.861 ms

Loss rate: 0.62%

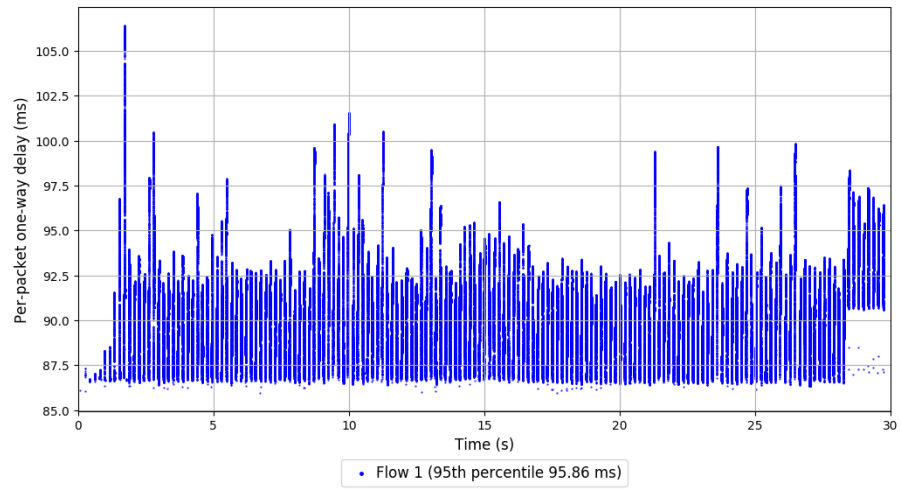
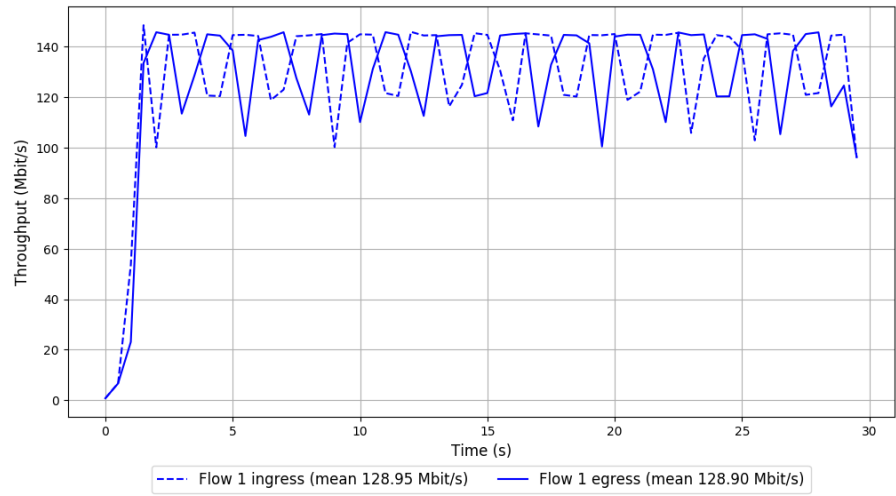
-- Flow 1:

Average throughput: 128.90 Mbit/s

95th percentile per-packet one-way delay: 95.861 ms

Loss rate: 0.62%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-19 19:14:21

End at: 2018-02-19 19:14:51

Below is generated by plot.py at 2018-02-19 22:08:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.02 Mbit/s

95th percentile per-packet one-way delay: 92.350 ms

Loss rate: 1.01%

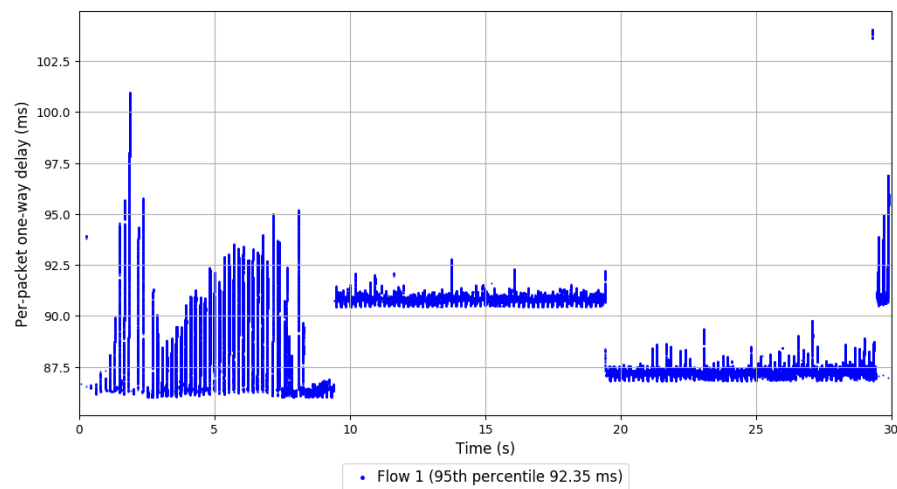
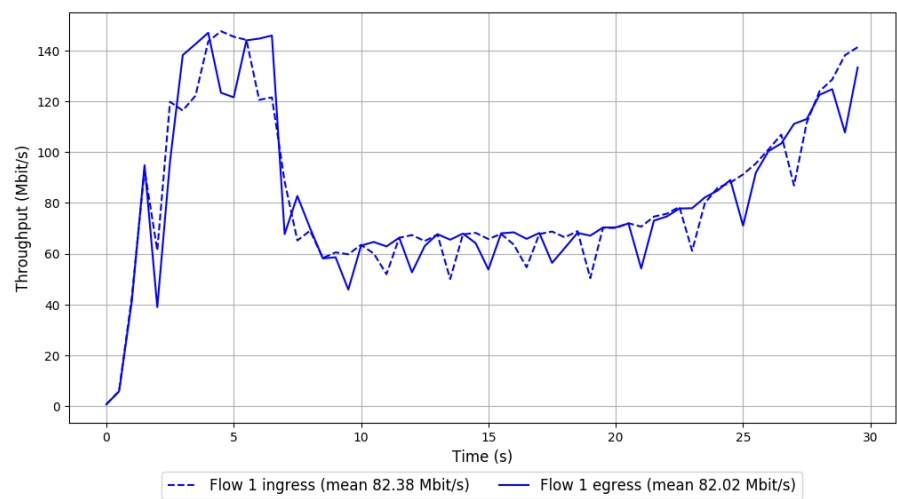
-- Flow 1:

Average throughput: 82.02 Mbit/s

95th percentile per-packet one-way delay: 92.350 ms

Loss rate: 1.01%

Run 10: Report of TCP Cubic — Data Link

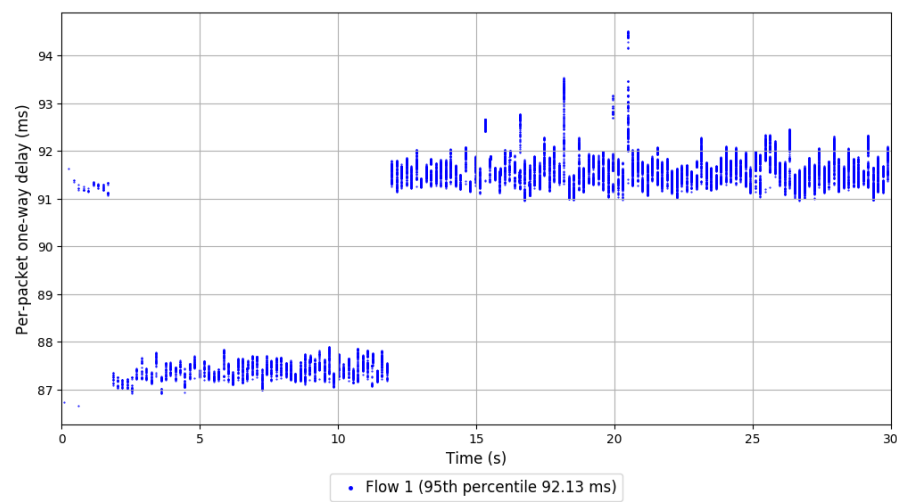
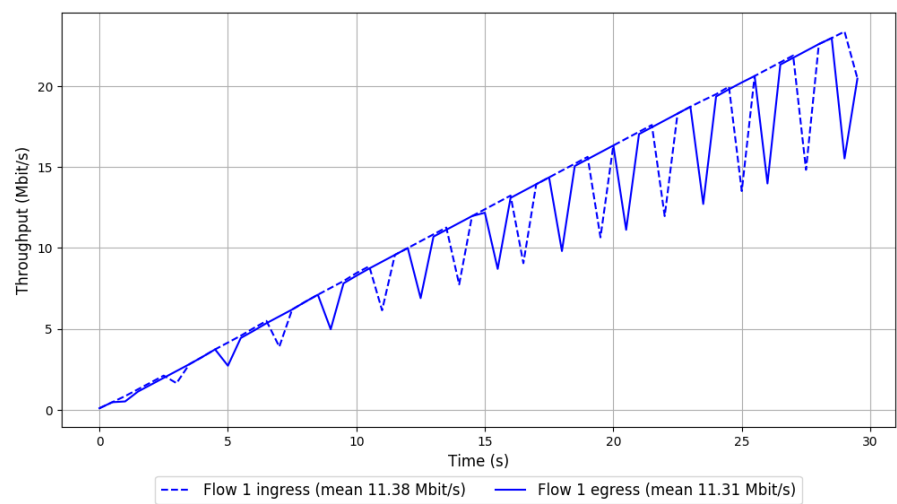


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-19 16:55:49
End at: 2018-02-19 16:56:19

# Below is generated by plot.py at 2018-02-19 22:08:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.31 Mbit/s
95th percentile per-packet one-way delay: 92.129 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 11.31 Mbit/s
95th percentile per-packet one-way delay: 92.129 ms
Loss rate: 1.15%
```


Run 1: Report of LEDBAT — Data Link

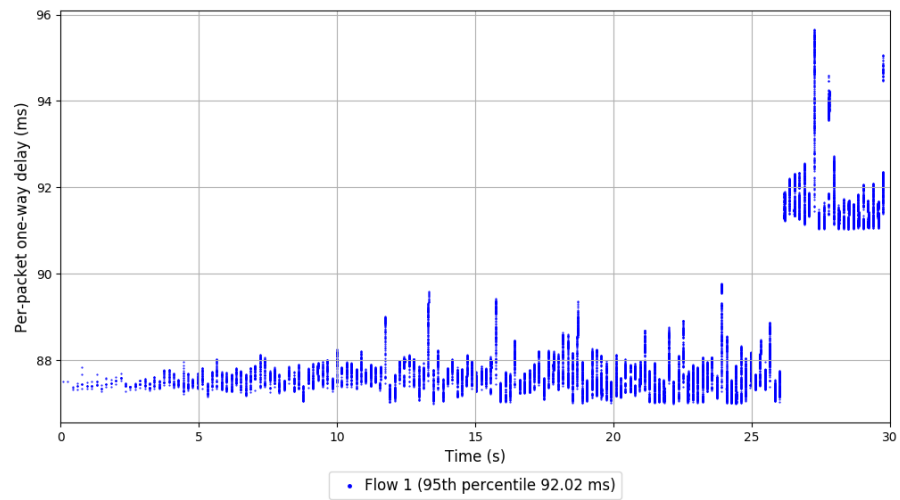
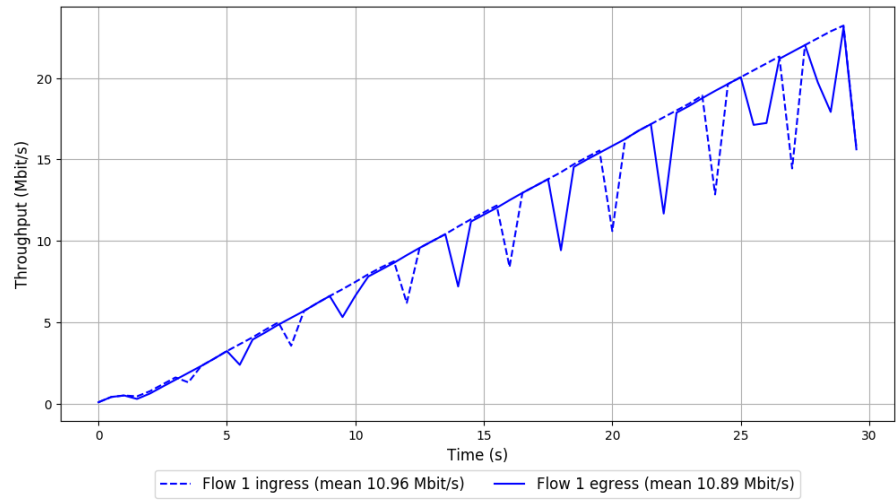


```
Run 2: Statistics of LEDBAT

Start at: 2018-02-19 17:10:54
End at: 2018-02-19 17:11:24

# Below is generated by plot.py at 2018-02-19 22:08:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.89 Mbit/s
95th percentile per-packet one-way delay: 92.017 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 10.89 Mbit/s
95th percentile per-packet one-way delay: 92.017 ms
Loss rate: 1.21%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-19 17:25:47

End at: 2018-02-19 17:26:17

Below is generated by plot.py at 2018-02-19 22:08:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.80 Mbit/s

95th percentile per-packet one-way delay: 88.712 ms

Loss rate: 1.16%

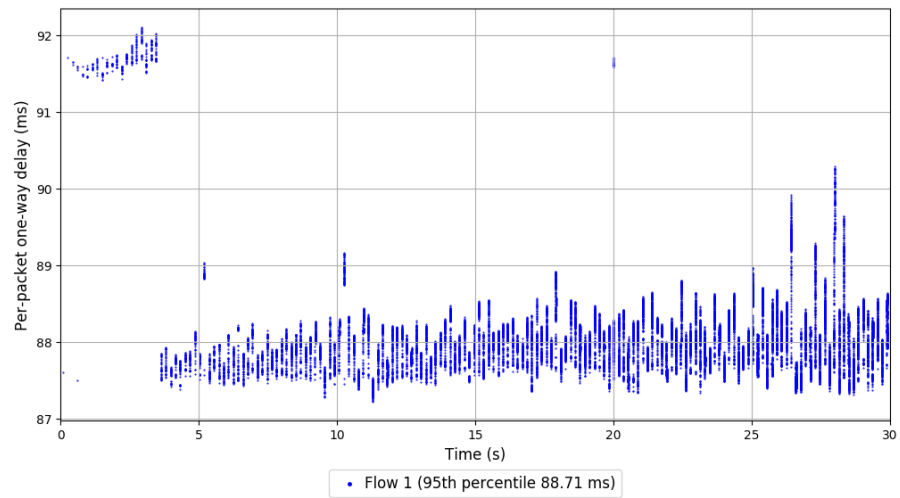
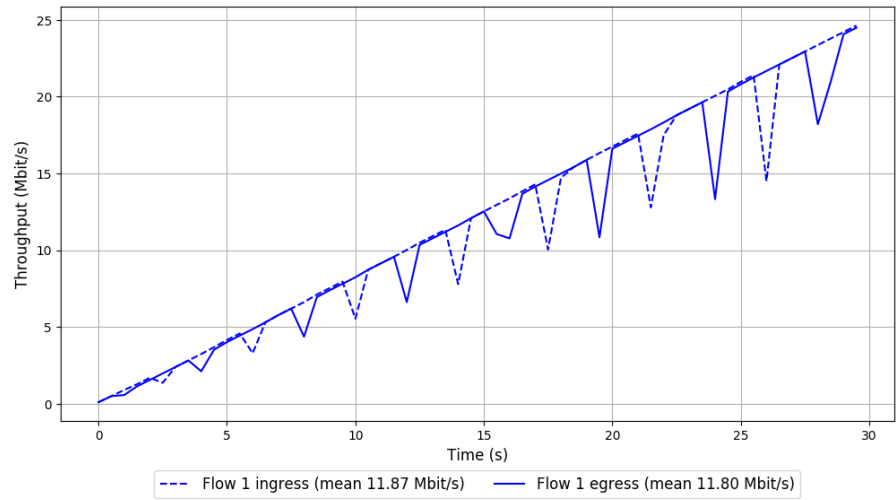
-- Flow 1:

Average throughput: 11.80 Mbit/s

95th percentile per-packet one-way delay: 88.712 ms

Loss rate: 1.16%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-19 17:40:50

End at: 2018-02-19 17:41:20

Below is generated by plot.py at 2018-02-19 22:08:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.89 Mbit/s

95th percentile per-packet one-way delay: 89.294 ms

Loss rate: 1.16%

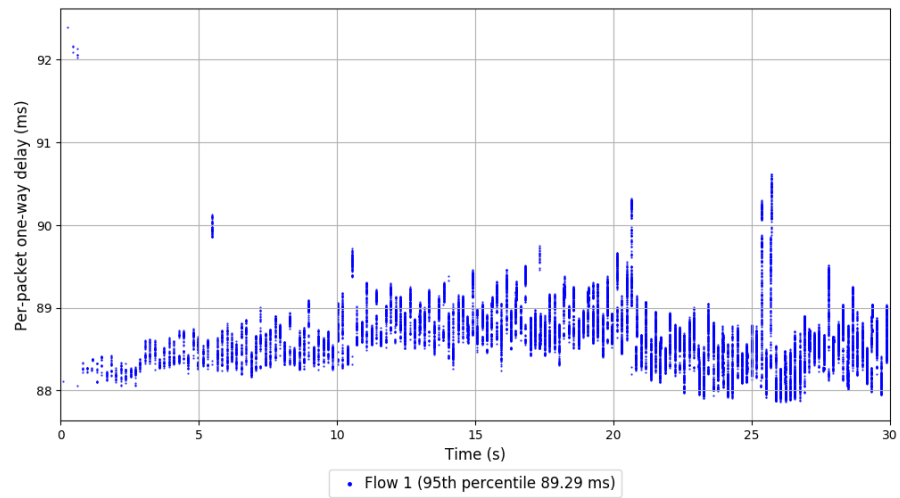
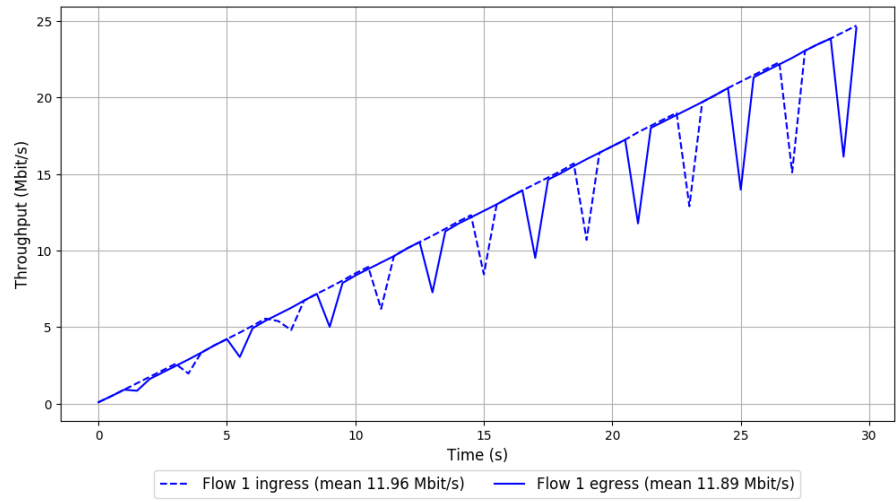
-- Flow 1:

Average throughput: 11.89 Mbit/s

95th percentile per-packet one-way delay: 89.294 ms

Loss rate: 1.16%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-19 17:56:16

End at: 2018-02-19 17:56:46

Below is generated by plot.py at 2018-02-19 22:08:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.32 Mbit/s

95th percentile per-packet one-way delay: 89.914 ms

Loss rate: 1.19%

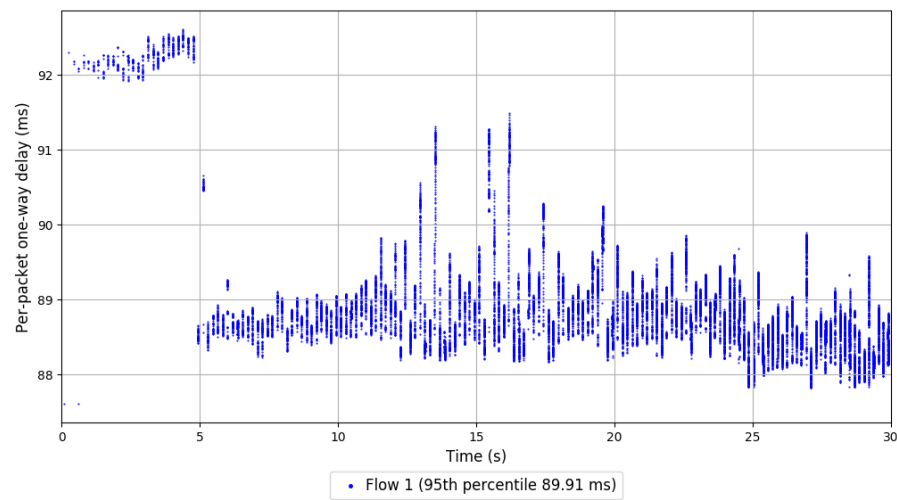
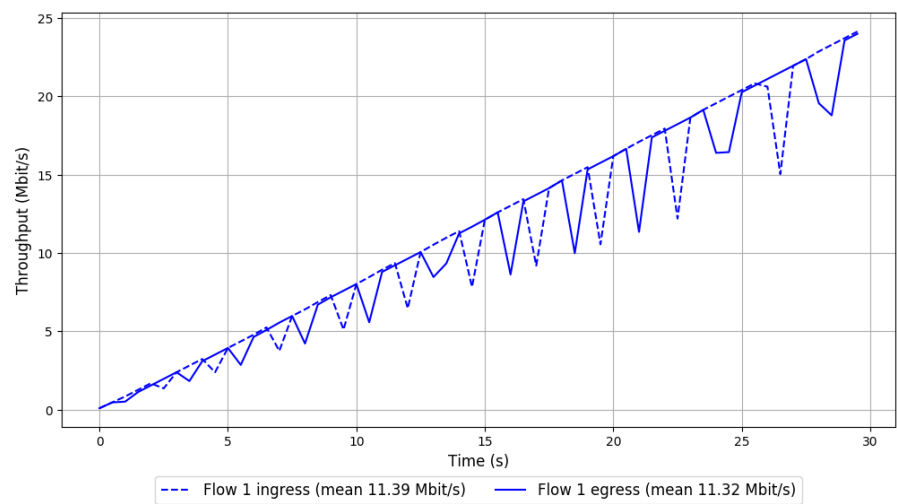
-- Flow 1:

Average throughput: 11.32 Mbit/s

95th percentile per-packet one-way delay: 89.914 ms

Loss rate: 1.19%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-19 18:11:34

End at: 2018-02-19 18:12:04

Below is generated by plot.py at 2018-02-19 22:08:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.35 Mbit/s

95th percentile per-packet one-way delay: 92.445 ms

Loss rate: 1.16%

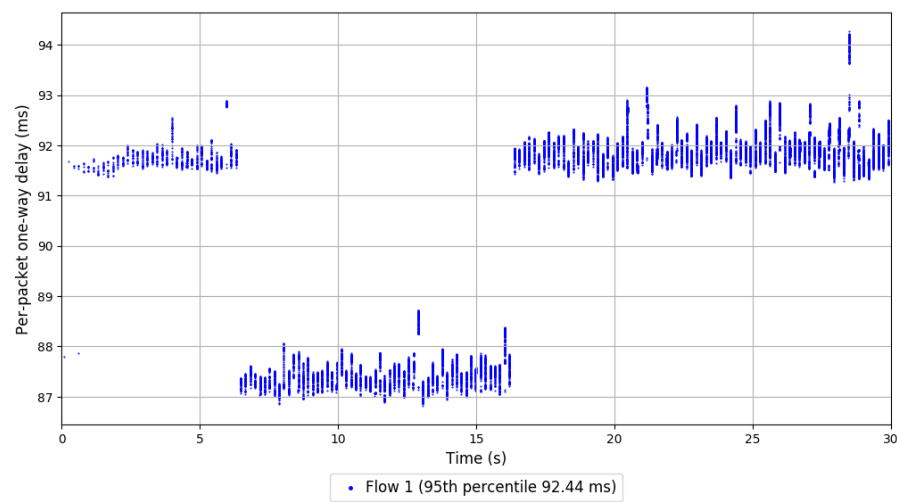
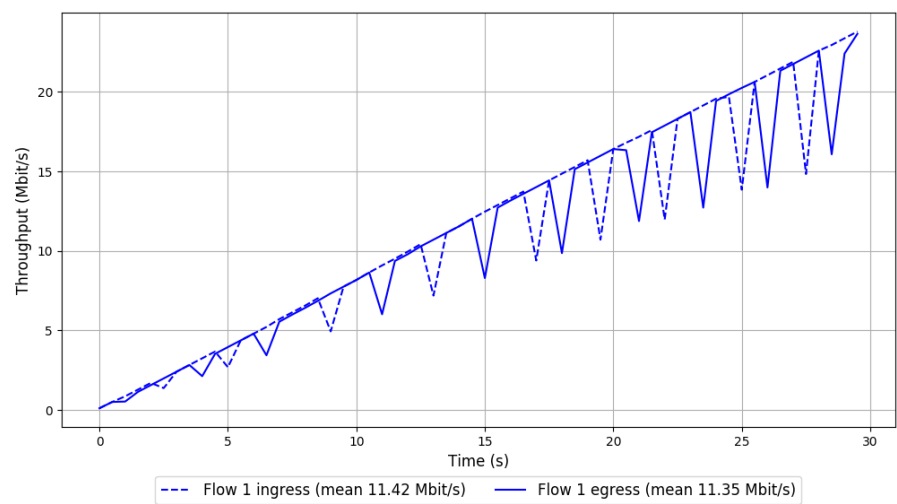
-- Flow 1:

Average throughput: 11.35 Mbit/s

95th percentile per-packet one-way delay: 92.445 ms

Loss rate: 1.16%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-19 18:27:01

End at: 2018-02-19 18:27:31

Below is generated by plot.py at 2018-02-19 22:08:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.33 Mbit/s

95th percentile per-packet one-way delay: 92.387 ms

Loss rate: 1.17%

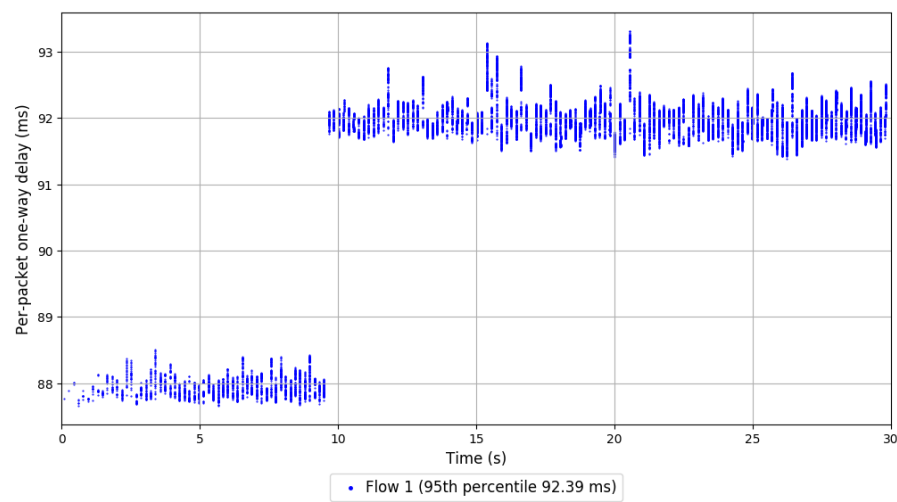
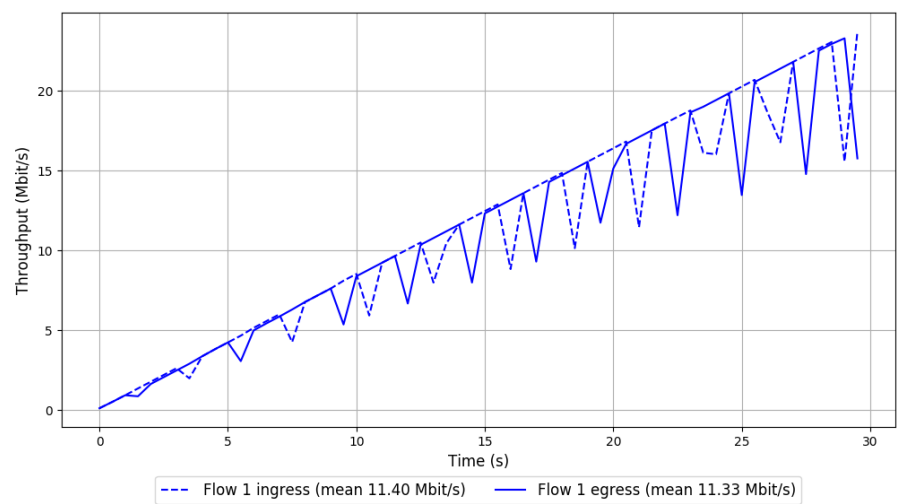
-- Flow 1:

Average throughput: 11.33 Mbit/s

95th percentile per-packet one-way delay: 92.387 ms

Loss rate: 1.17%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-19 18:42:41

End at: 2018-02-19 18:43:11

Below is generated by plot.py at 2018-02-19 22:08:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.58 Mbit/s

95th percentile per-packet one-way delay: 91.133 ms

Loss rate: 1.17%

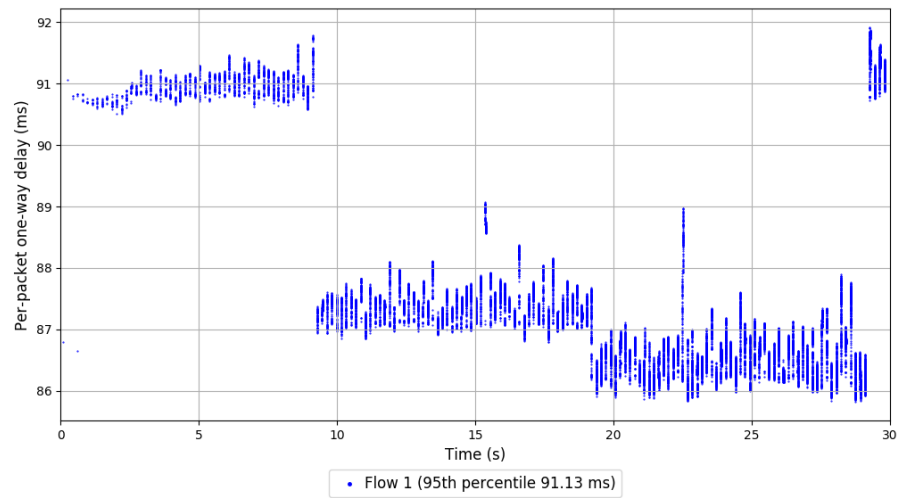
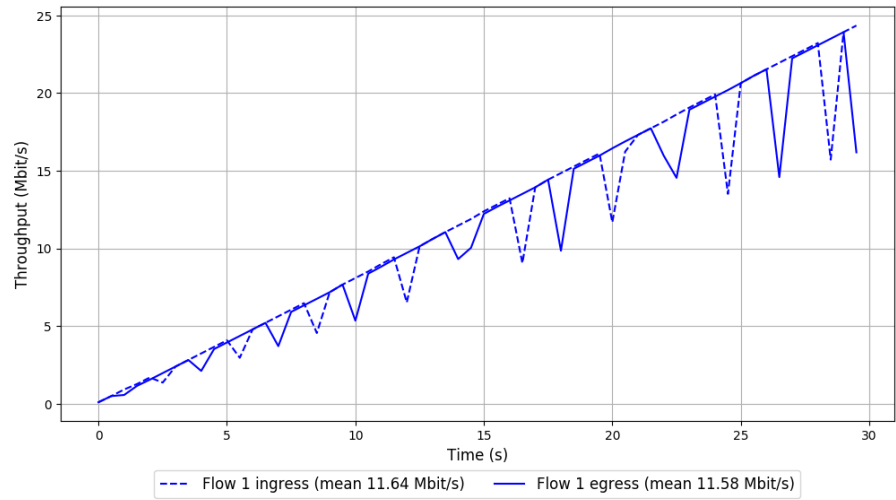
-- Flow 1:

Average throughput: 11.58 Mbit/s

95th percentile per-packet one-way delay: 91.133 ms

Loss rate: 1.17%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-19 18:58:42

End at: 2018-02-19 18:59:12

Below is generated by plot.py at 2018-02-19 22:08:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.79 Mbit/s

95th percentile per-packet one-way delay: 87.849 ms

Loss rate: 1.16%

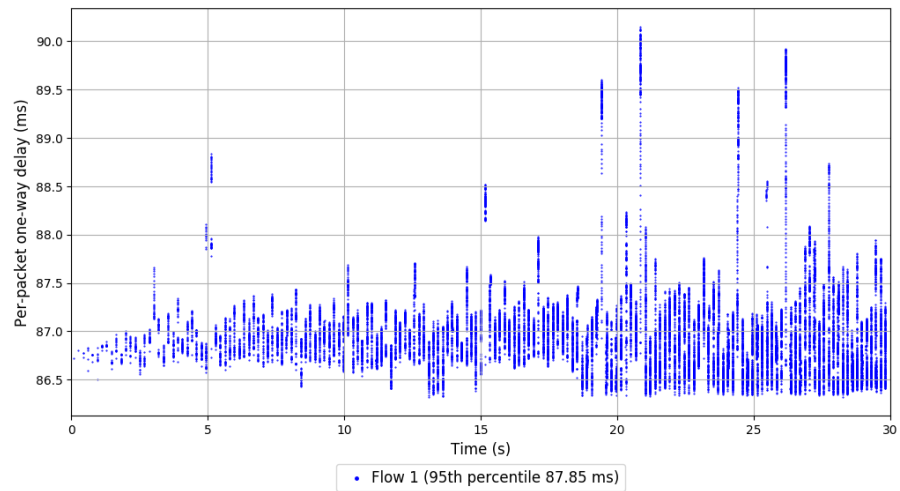
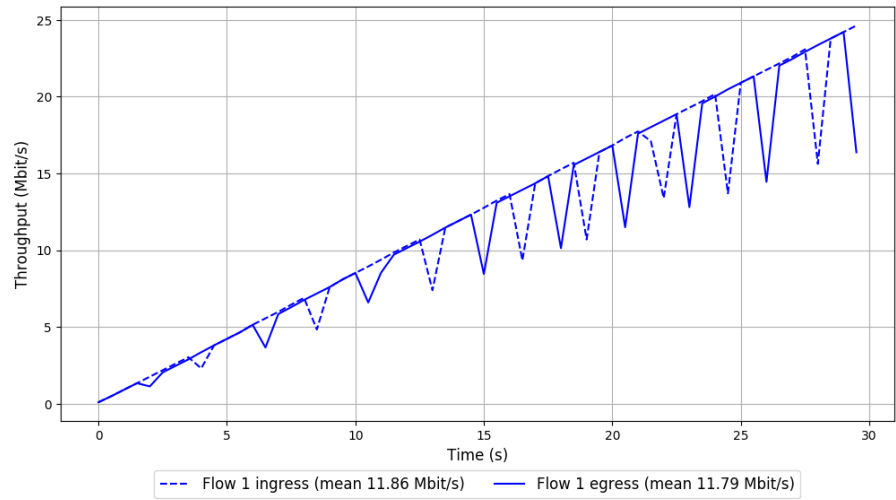
-- Flow 1:

Average throughput: 11.79 Mbit/s

95th percentile per-packet one-way delay: 87.849 ms

Loss rate: 1.16%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

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

End at: 2018-02-19 19:14:11

Below is generated by plot.py at 2018-02-19 22:08:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.94 Mbit/s

95th percentile per-packet one-way delay: 91.078 ms

Loss rate: 1.62%

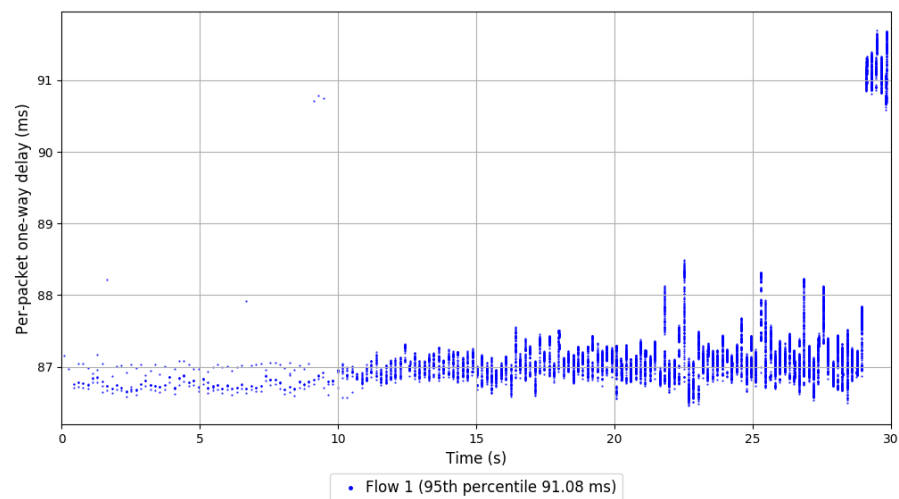
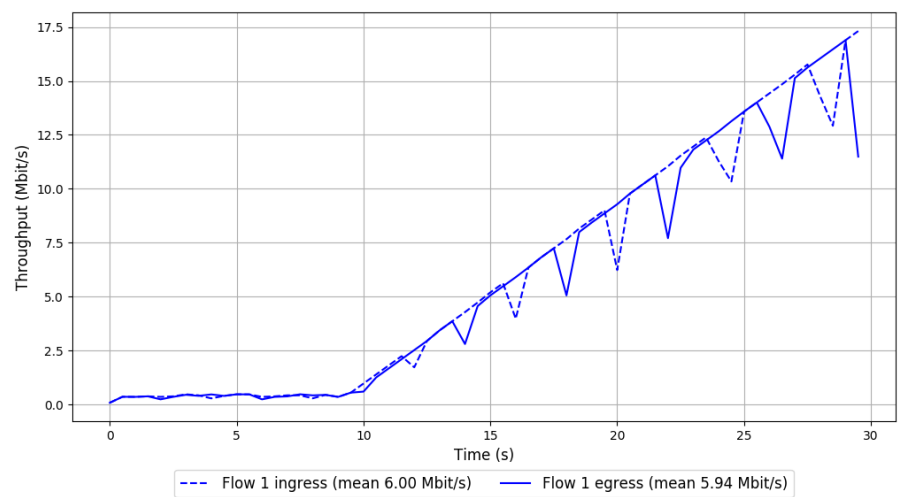
-- Flow 1:

Average throughput: 5.94 Mbit/s

95th percentile per-packet one-way delay: 91.078 ms

Loss rate: 1.62%

Run 10: Report of LEDBAT — Data Link

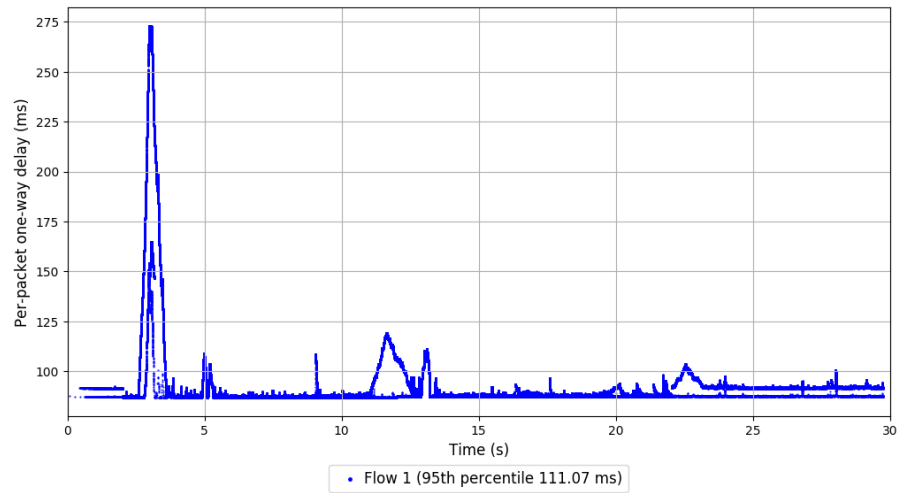
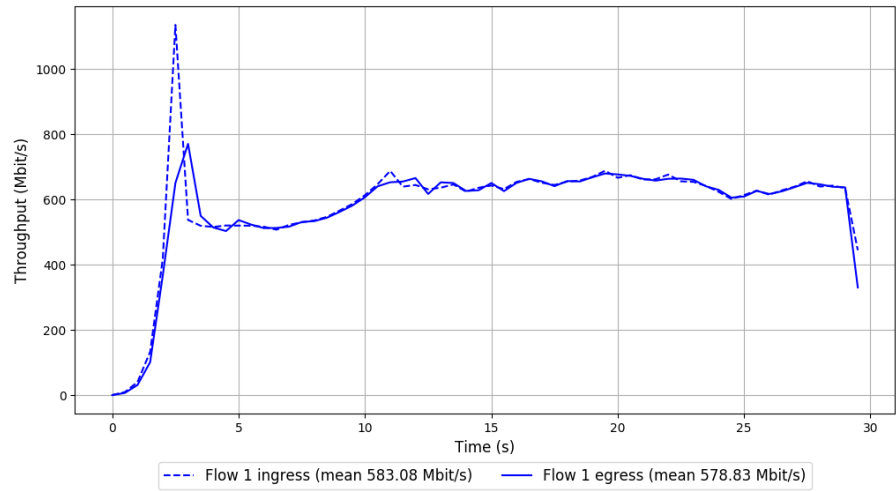


```
Run 1: Statistics of PCC

Start at: 2018-02-19 16:59:58
End at: 2018-02-19 17:00:28

# Below is generated by plot.py at 2018-02-19 22:17:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 578.83 Mbit/s
95th percentile per-packet one-way delay: 111.067 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 578.83 Mbit/s
95th percentile per-packet one-way delay: 111.067 ms
Loss rate: 1.31%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-19 17:15:06

End at: 2018-02-19 17:15:36

Below is generated by plot.py at 2018-02-19 22:17:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 499.76 Mbit/s

95th percentile per-packet one-way delay: 94.178 ms

Loss rate: 1.14%

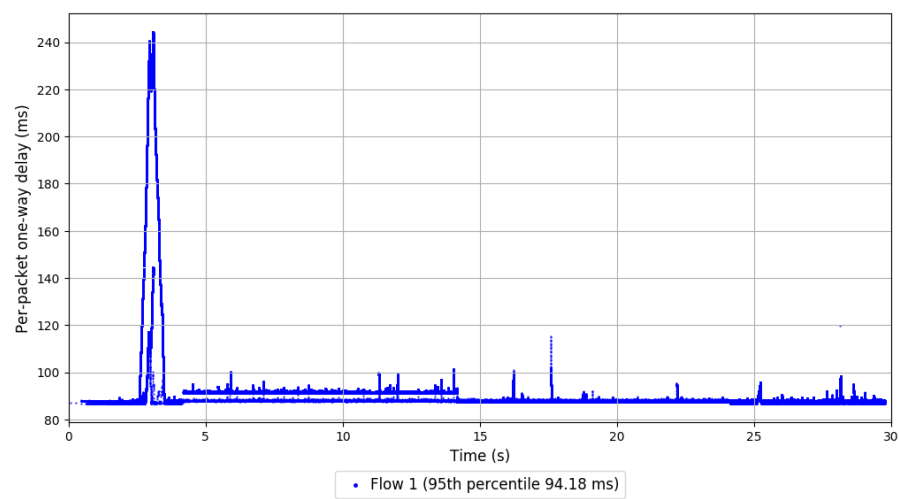
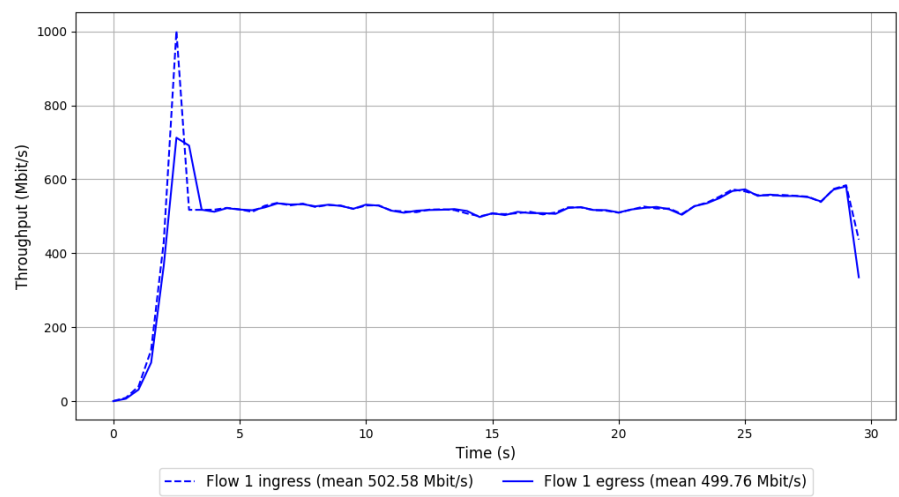
-- Flow 1:

Average throughput: 499.76 Mbit/s

95th percentile per-packet one-way delay: 94.178 ms

Loss rate: 1.14%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-19 17:29:57

End at: 2018-02-19 17:30:27

Below is generated by plot.py at 2018-02-19 22:17:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 558.07 Mbit/s

95th percentile per-packet one-way delay: 113.291 ms

Loss rate: 1.27%

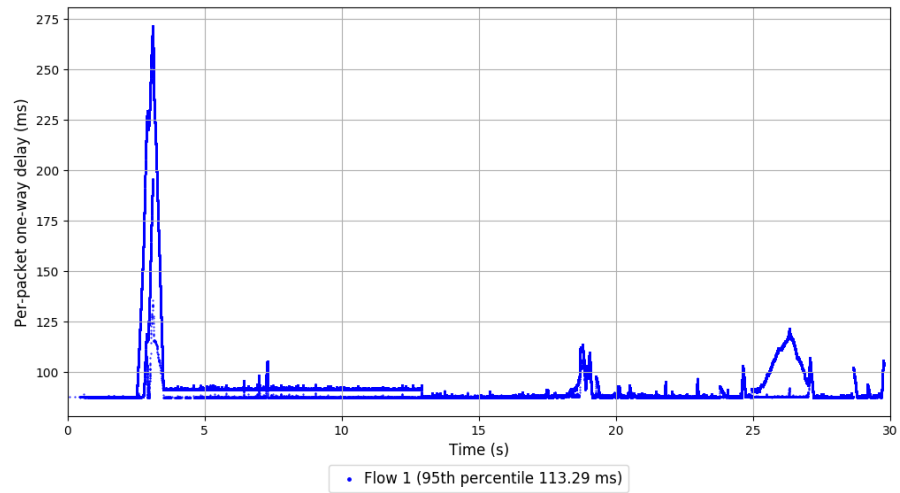
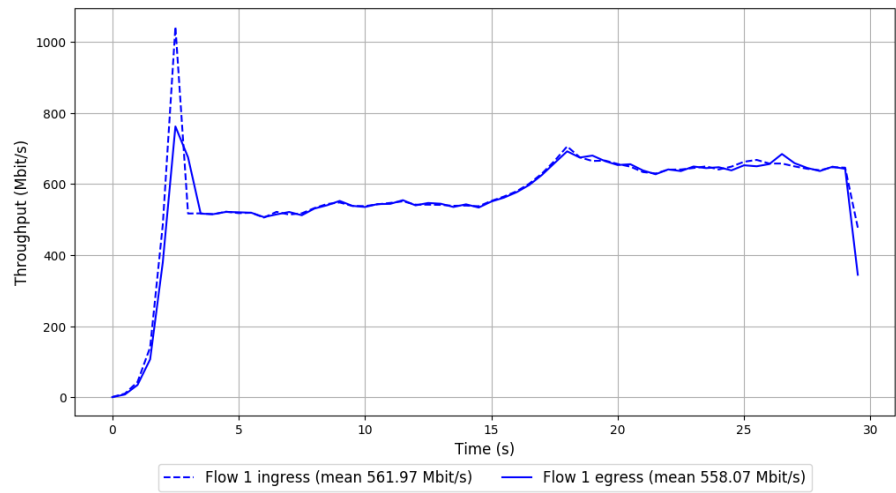
-- Flow 1:

Average throughput: 558.07 Mbit/s

95th percentile per-packet one-way delay: 113.291 ms

Loss rate: 1.27%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-19 17:44:59

End at: 2018-02-19 17:45:29

Below is generated by plot.py at 2018-02-19 22:17:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 587.97 Mbit/s

95th percentile per-packet one-way delay: 130.144 ms

Loss rate: 1.14%

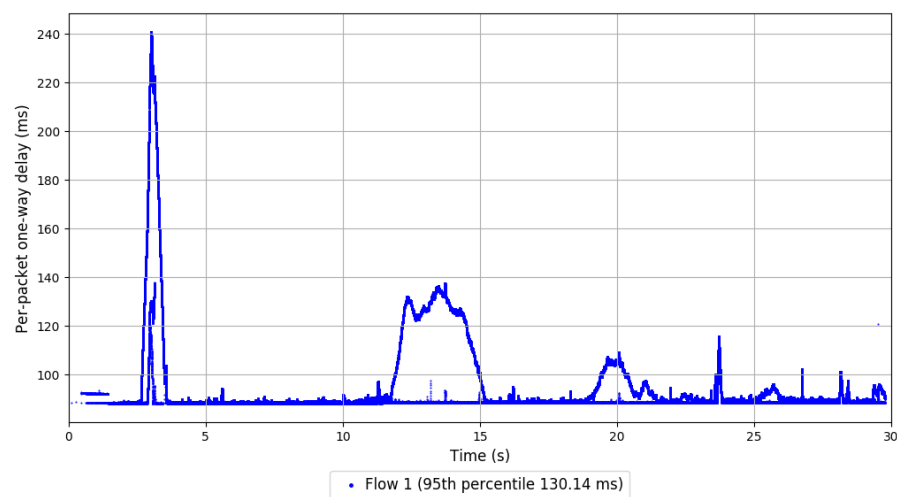
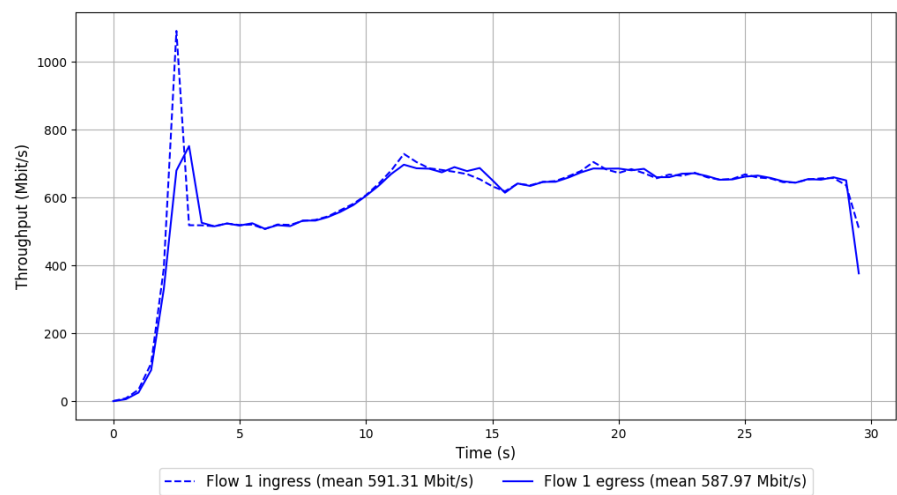
-- Flow 1:

Average throughput: 587.97 Mbit/s

95th percentile per-packet one-way delay: 130.144 ms

Loss rate: 1.14%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-19 18:00:22

End at: 2018-02-19 18:00:52

Below is generated by plot.py at 2018-02-19 22:18:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 592.10 Mbit/s

95th percentile per-packet one-way delay: 125.335 ms

Loss rate: 1.19%

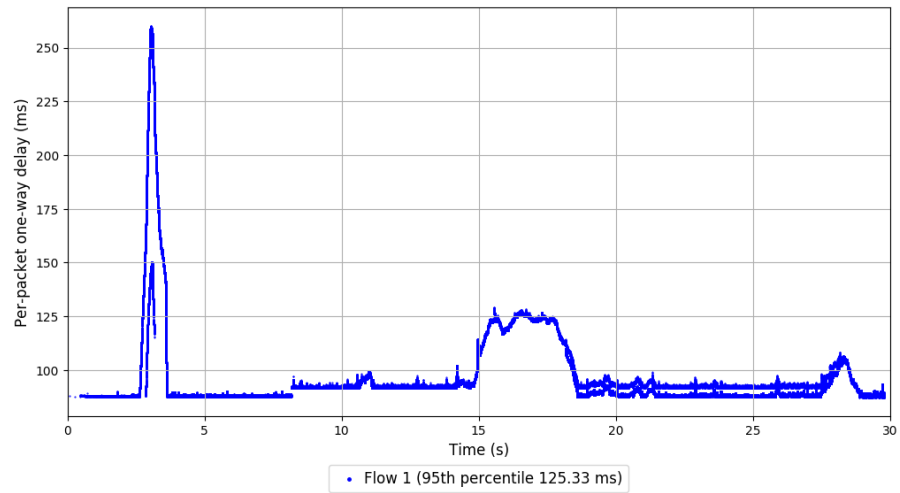
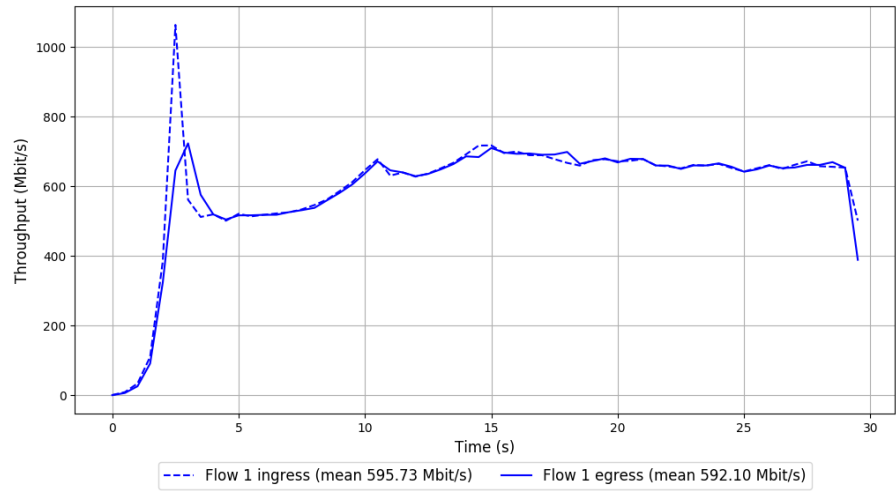
-- Flow 1:

Average throughput: 592.10 Mbit/s

95th percentile per-packet one-way delay: 125.335 ms

Loss rate: 1.19%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-19 18:15:44

End at: 2018-02-19 18:16:14

Below is generated by plot.py at 2018-02-19 22:18:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 529.86 Mbit/s

95th percentile per-packet one-way delay: 106.464 ms

Loss rate: 1.26%

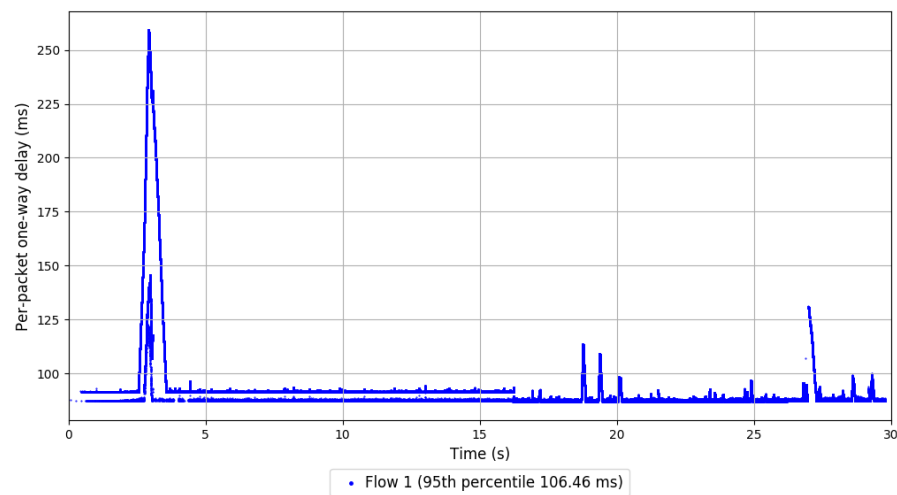
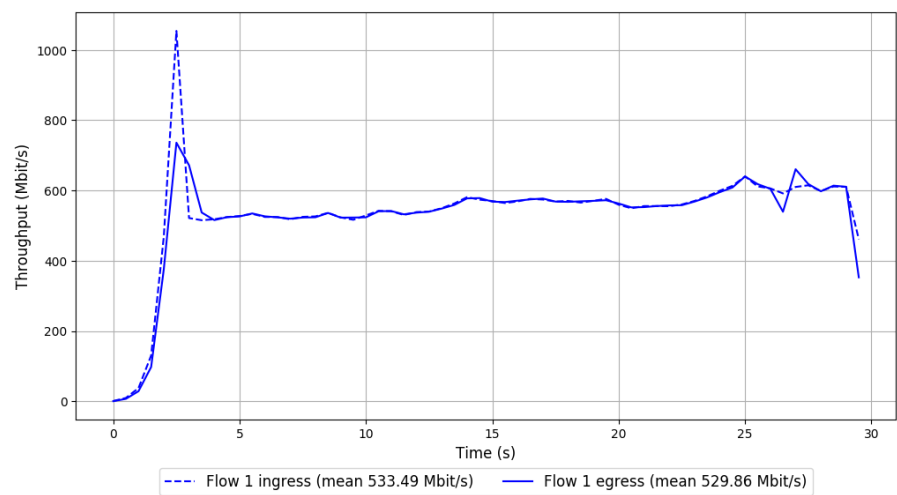
-- Flow 1:

Average throughput: 529.86 Mbit/s

95th percentile per-packet one-way delay: 106.464 ms

Loss rate: 1.26%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-19 18:31:12

End at: 2018-02-19 18:31:42

Below is generated by plot.py at 2018-02-19 22:18:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 561.47 Mbit/s

95th percentile per-packet one-way delay: 119.414 ms

Loss rate: 1.25%

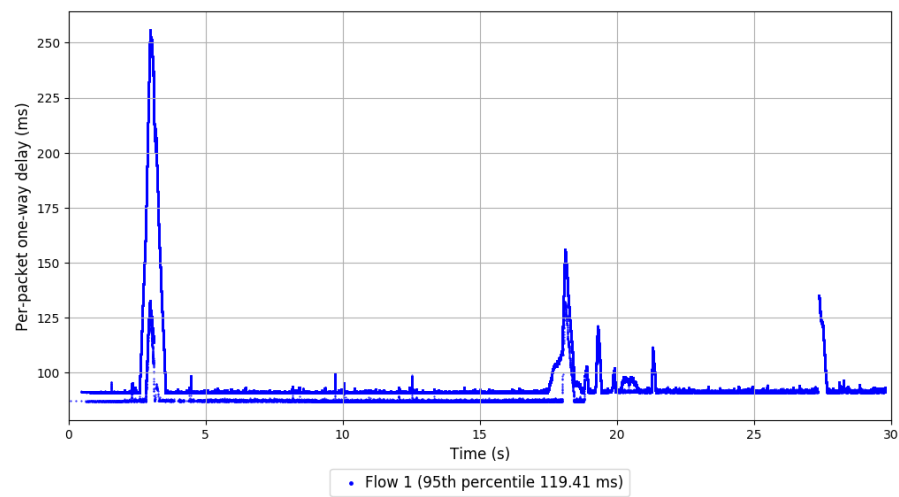
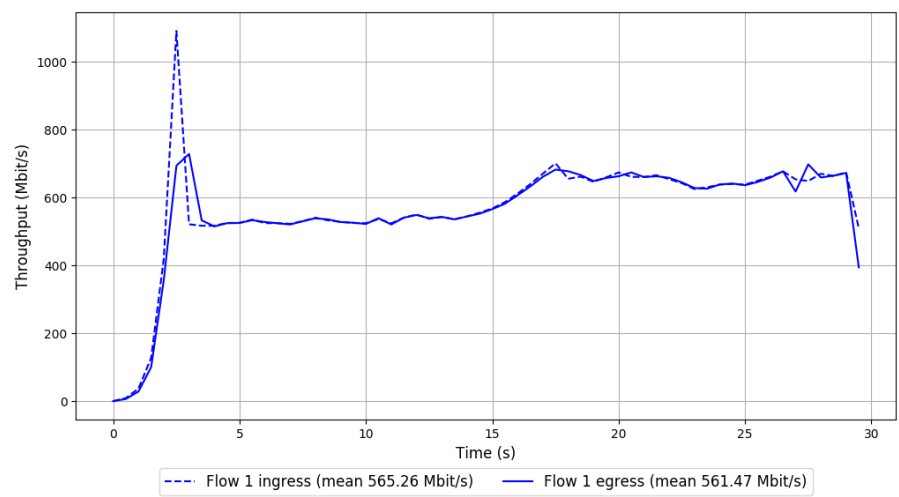
-- Flow 1:

Average throughput: 561.47 Mbit/s

95th percentile per-packet one-way delay: 119.414 ms

Loss rate: 1.25%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-19 18:46:54

End at: 2018-02-19 18:47:24

Below is generated by plot.py at 2018-02-19 22:18:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 579.73 Mbit/s

95th percentile per-packet one-way delay: 203.551 ms

Loss rate: 1.66%

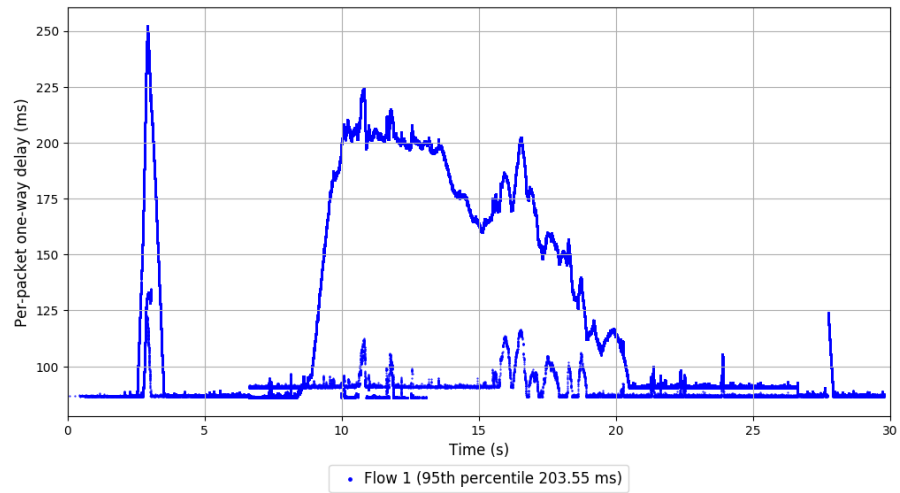
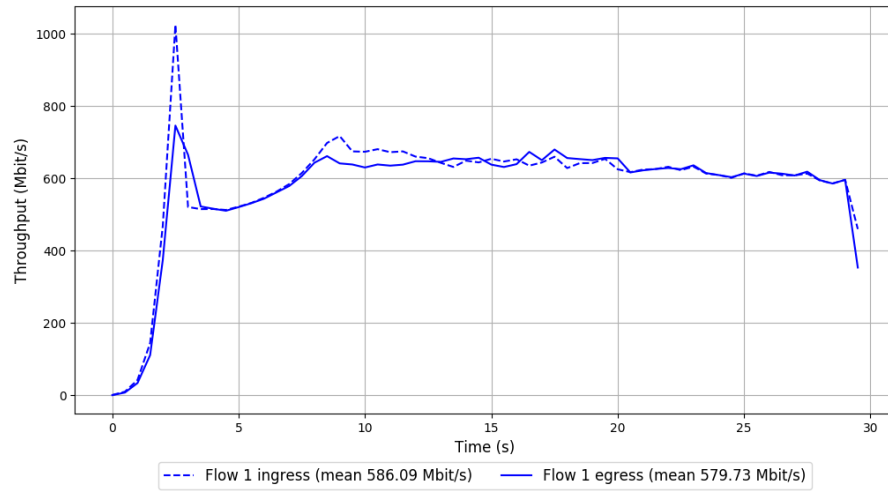
-- Flow 1:

Average throughput: 579.73 Mbit/s

95th percentile per-packet one-way delay: 203.551 ms

Loss rate: 1.66%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

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

End at: 2018-02-19 19:03:22

Below is generated by plot.py at 2018-02-19 22:26:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 586.97 Mbit/s

95th percentile per-packet one-way delay: 114.033 ms

Loss rate: 1.21%

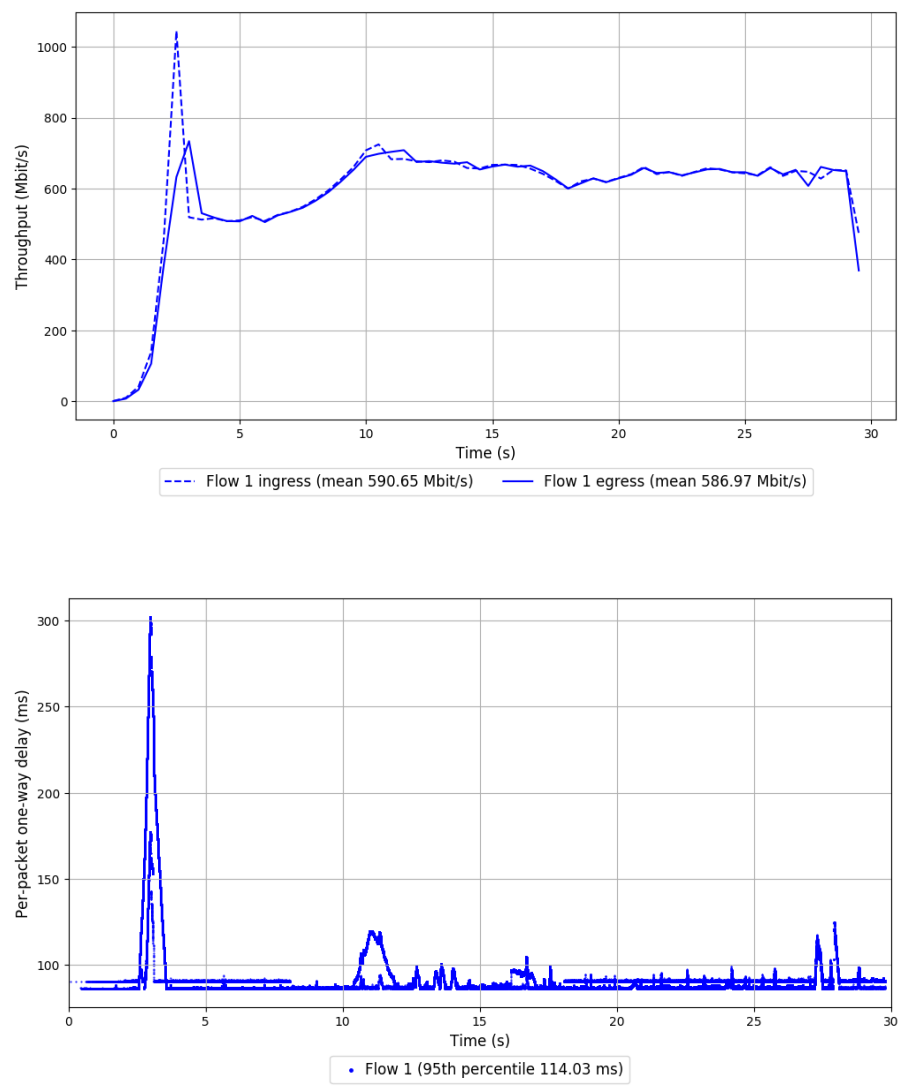
-- Flow 1:

Average throughput: 586.97 Mbit/s

95th percentile per-packet one-way delay: 114.033 ms

Loss rate: 1.21%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-19 19:17:50

End at: 2018-02-19 19:18:20

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 591.63 Mbit/s

95th percentile per-packet one-way delay: 193.577 ms

Loss rate: 1.63%

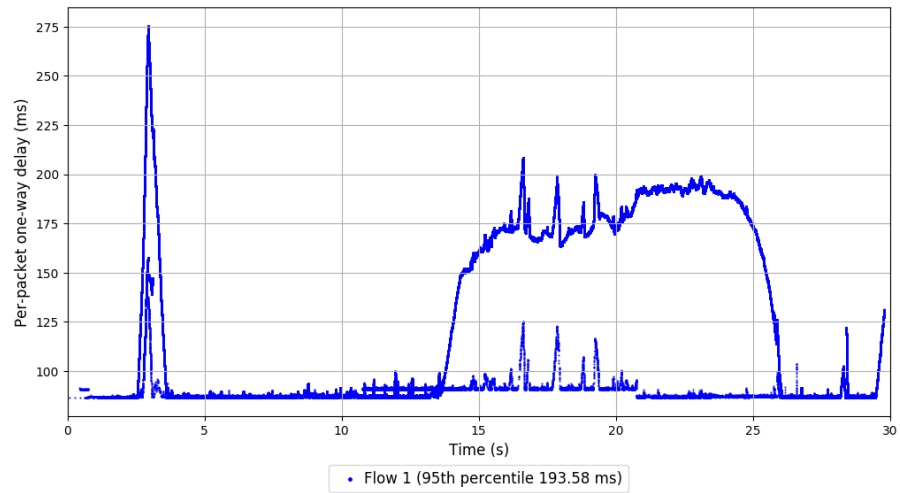
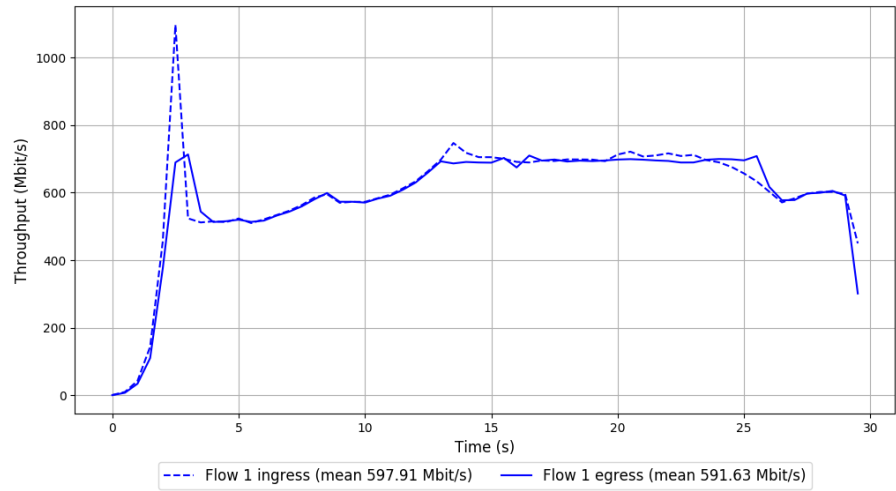
-- Flow 1:

Average throughput: 591.63 Mbit/s

95th percentile per-packet one-way delay: 193.577 ms

Loss rate: 1.63%

Run 10: Report of PCC — Data Link

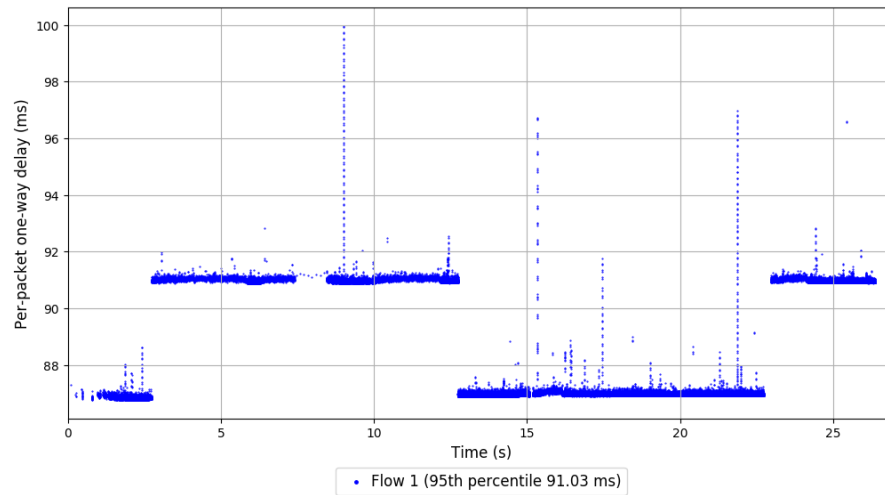
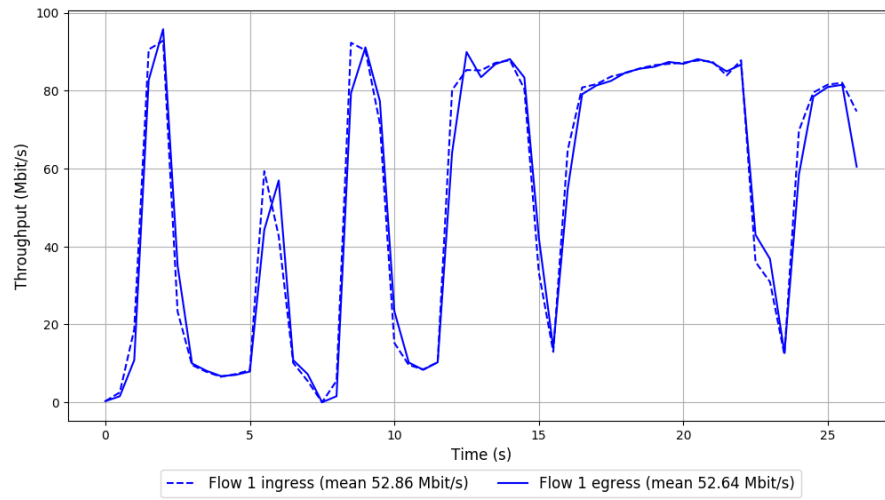


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-02-19 16:48:14
End at: 2018-02-19 16:48:44

# Below is generated by plot.py at 2018-02-19 22:27:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.64 Mbit/s
95th percentile per-packet one-way delay: 91.035 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 52.64 Mbit/s
95th percentile per-packet one-way delay: 91.035 ms
Loss rate: 1.06%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-19 17:03:26

End at: 2018-02-19 17:03:56

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.96 Mbit/s

95th percentile per-packet one-way delay: 91.167 ms

Loss rate: 0.91%

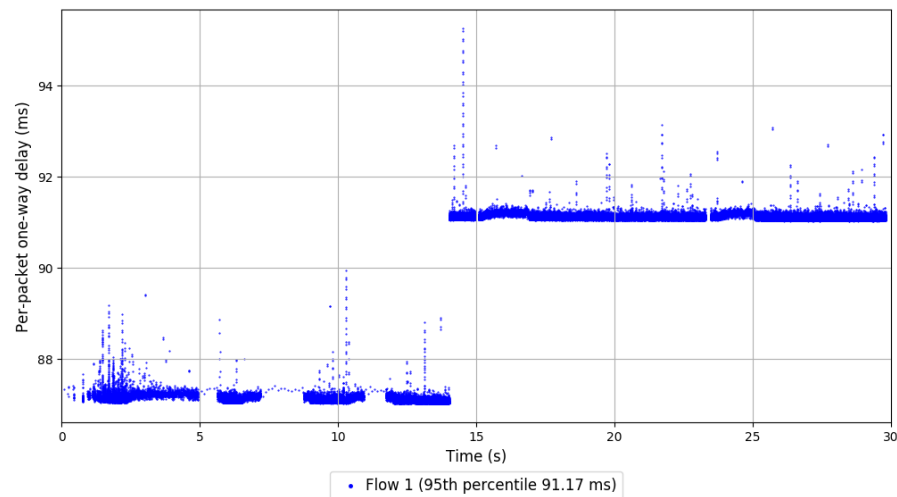
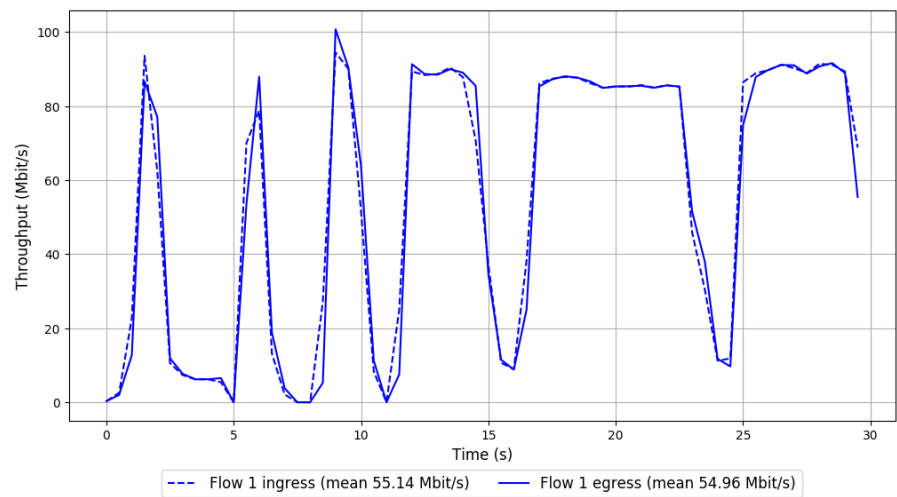
-- Flow 1:

Average throughput: 54.96 Mbit/s

95th percentile per-packet one-way delay: 91.167 ms

Loss rate: 0.91%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-19 17:18:26

End at: 2018-02-19 17:18:56

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.92 Mbit/s

95th percentile per-packet one-way delay: 91.516 ms

Loss rate: 0.84%

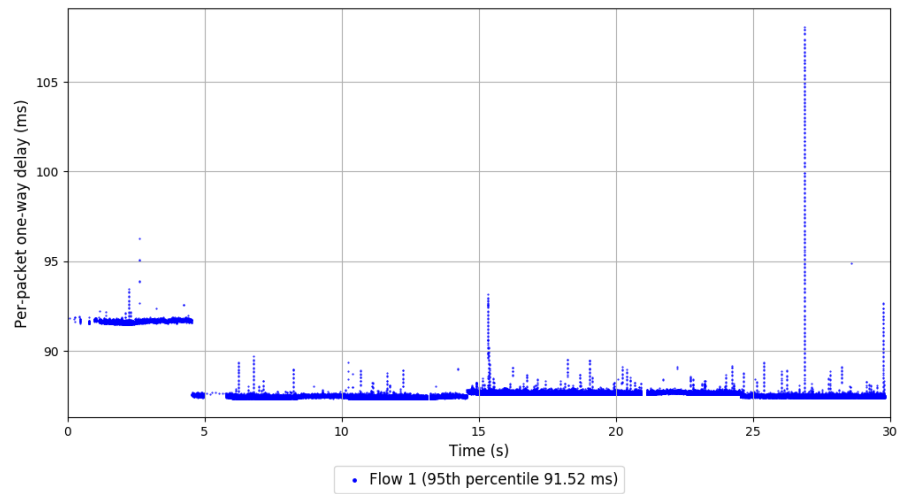
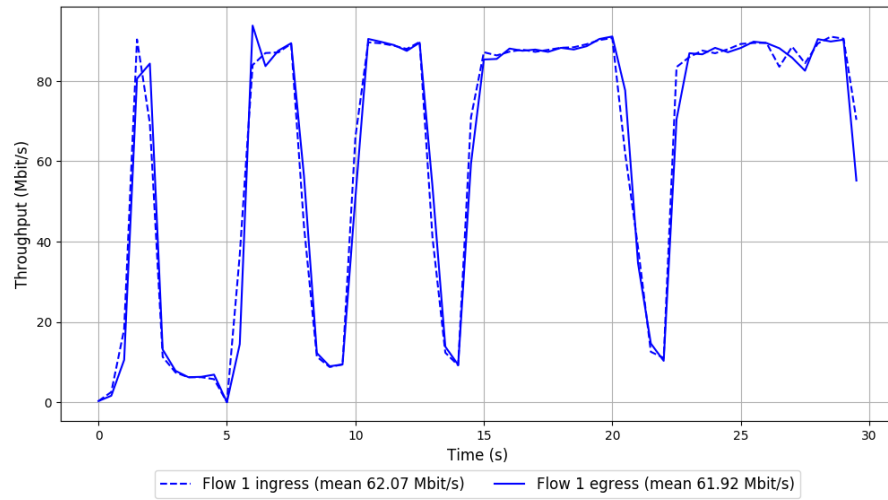
-- Flow 1:

Average throughput: 61.92 Mbit/s

95th percentile per-packet one-way delay: 91.516 ms

Loss rate: 0.84%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-19 17:33:18

End at: 2018-02-19 17:33:48

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.60 Mbit/s

95th percentile per-packet one-way delay: 88.002 ms

Loss rate: 0.86%

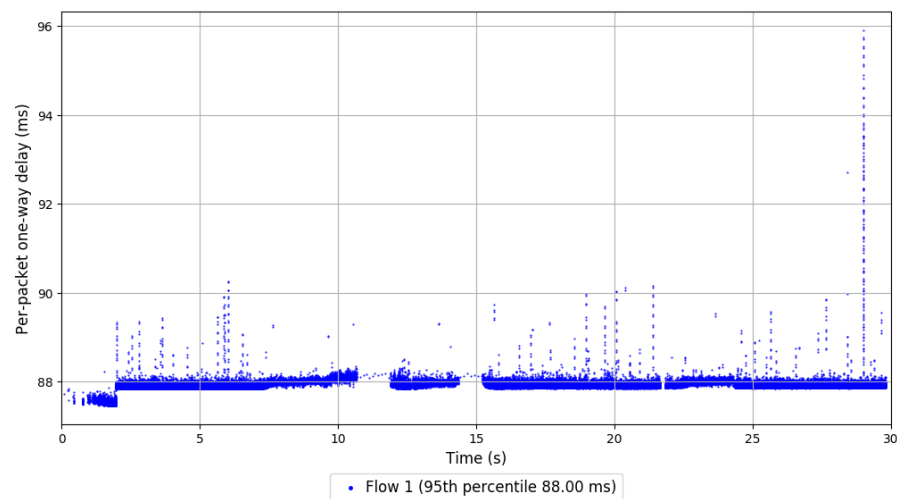
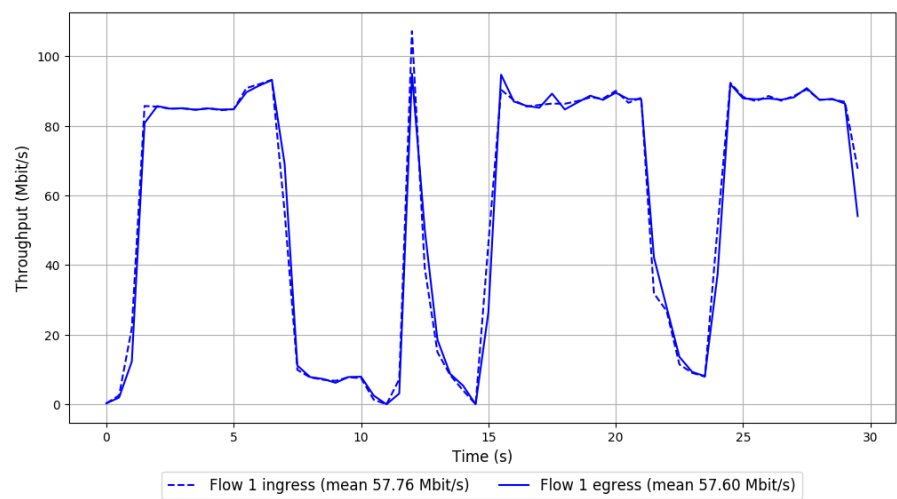
-- Flow 1:

Average throughput: 57.60 Mbit/s

95th percentile per-packet one-way delay: 88.002 ms

Loss rate: 0.86%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-19 17:48:27

End at: 2018-02-19 17:48:58

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.58 Mbit/s

95th percentile per-packet one-way delay: 88.690 ms

Loss rate: 0.89%

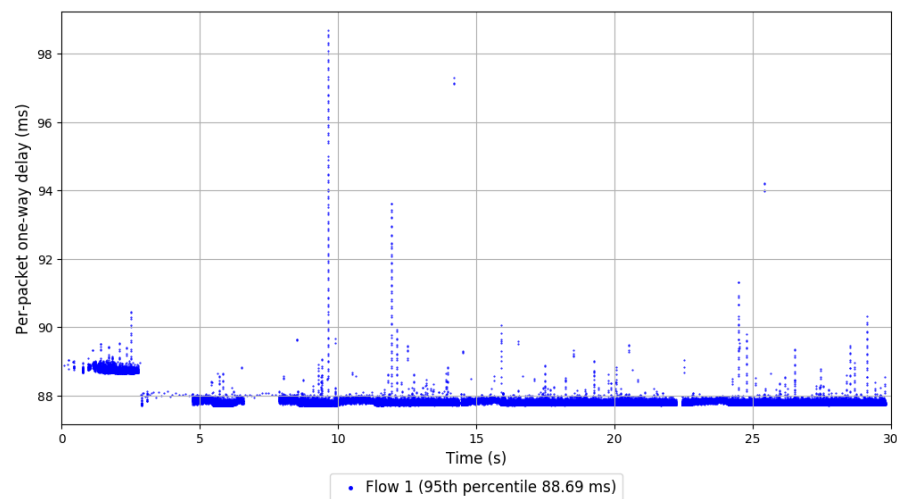
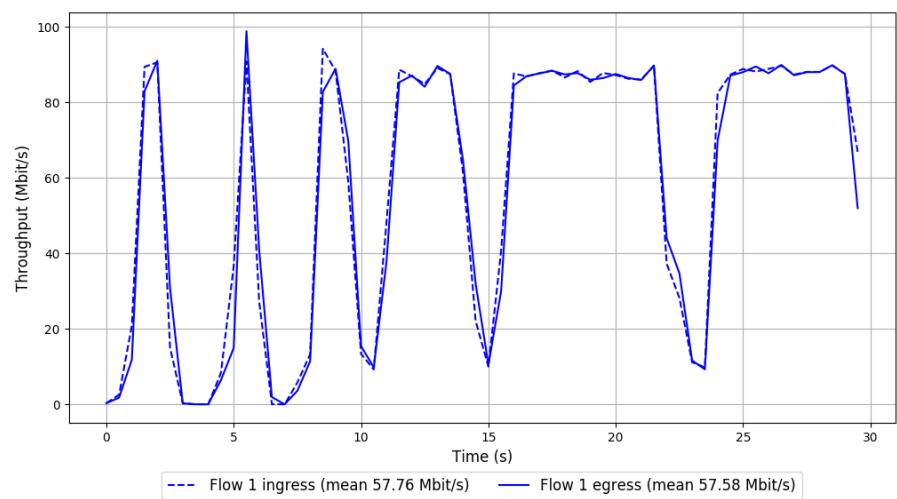
-- Flow 1:

Average throughput: 57.58 Mbit/s

95th percentile per-packet one-way delay: 88.690 ms

Loss rate: 0.89%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-19 18:03:44

End at: 2018-02-19 18:04:14

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.26 Mbit/s

95th percentile per-packet one-way delay: 87.712 ms

Loss rate: 0.94%

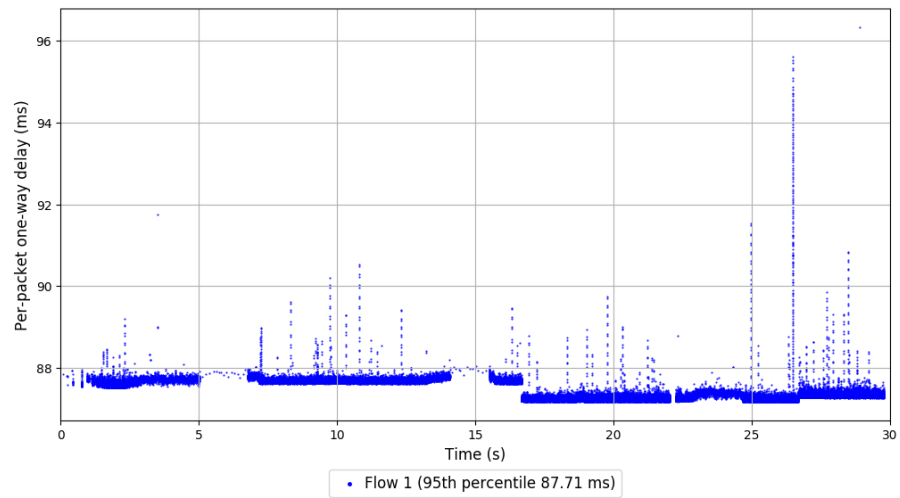
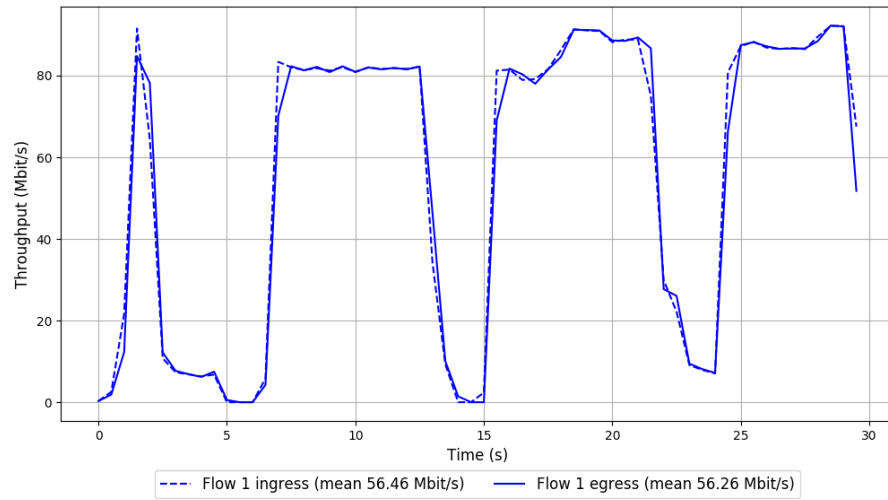
-- Flow 1:

Average throughput: 56.26 Mbit/s

95th percentile per-packet one-way delay: 87.712 ms

Loss rate: 0.94%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-19 18:19:09

End at: 2018-02-19 18:19:39

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.76 Mbit/s

95th percentile per-packet one-way delay: 91.459 ms

Loss rate: 0.82%

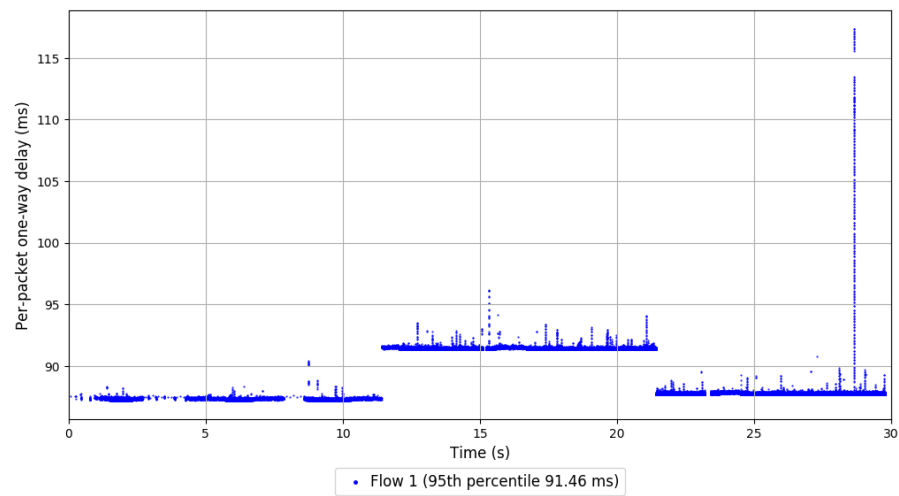
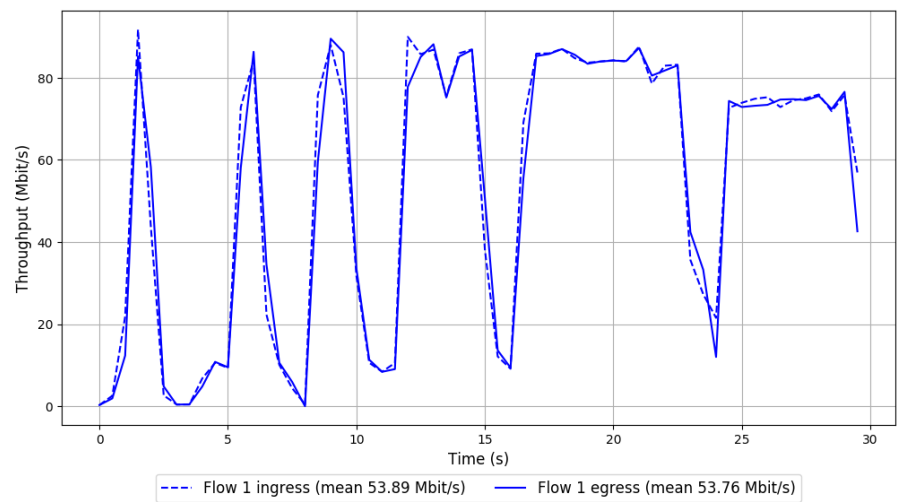
-- Flow 1:

Average throughput: 53.76 Mbit/s

95th percentile per-packet one-way delay: 91.459 ms

Loss rate: 0.82%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-19 18:34:34

End at: 2018-02-19 18:35:04

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.31 Mbit/s

95th percentile per-packet one-way delay: 86.958 ms

Loss rate: 0.89%

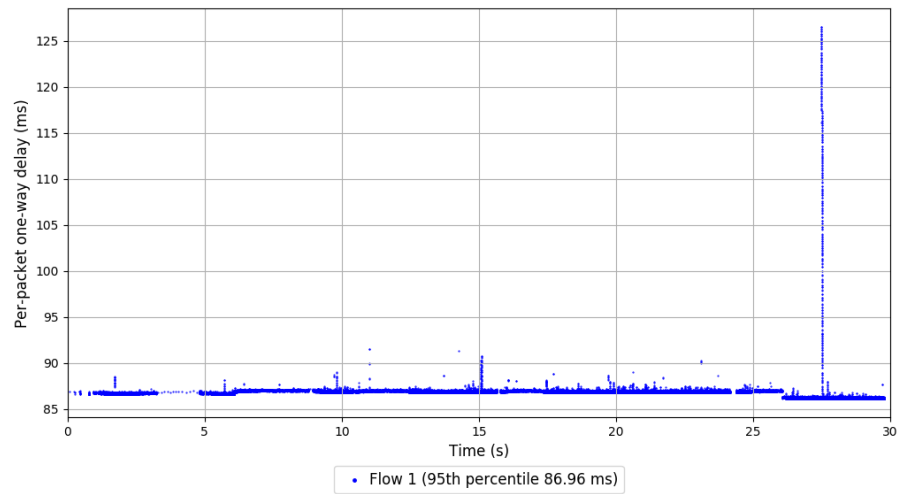
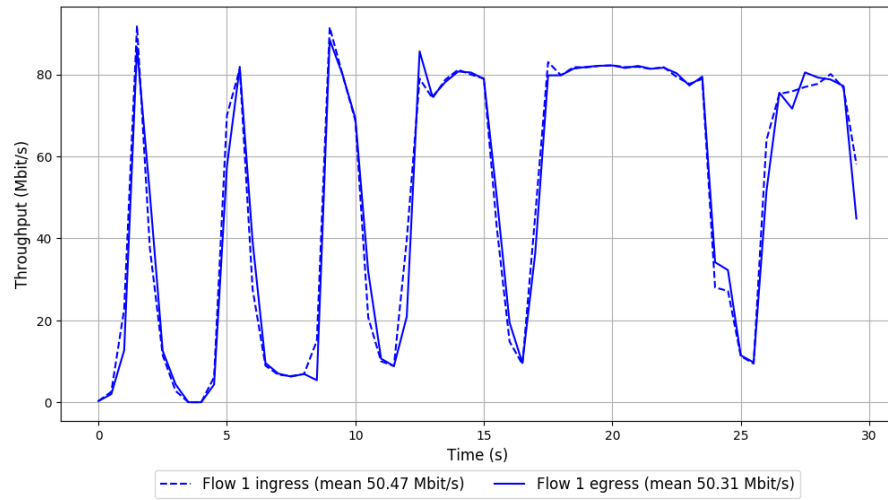
-- Flow 1:

Average throughput: 50.31 Mbit/s

95th percentile per-packet one-way delay: 86.958 ms

Loss rate: 0.89%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-19 18:50:27

End at: 2018-02-19 18:50:57

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.55 Mbit/s

95th percentile per-packet one-way delay: 90.504 ms

Loss rate: 0.88%

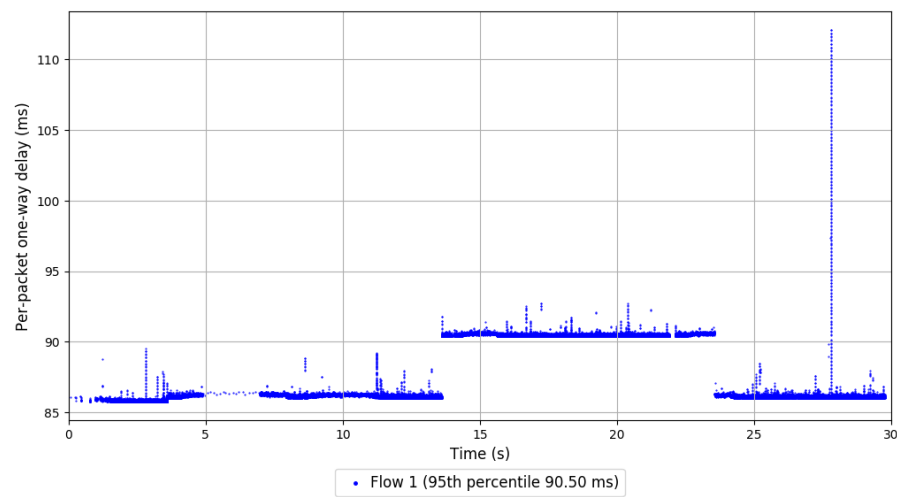
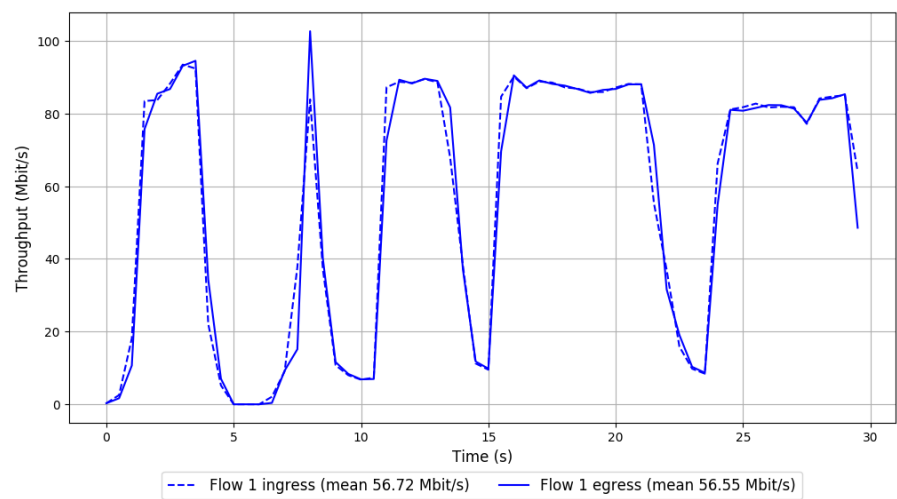
-- Flow 1:

Average throughput: 56.55 Mbit/s

95th percentile per-packet one-way delay: 90.504 ms

Loss rate: 0.88%

Run 9: Report of QUIC Cubic — Data Link

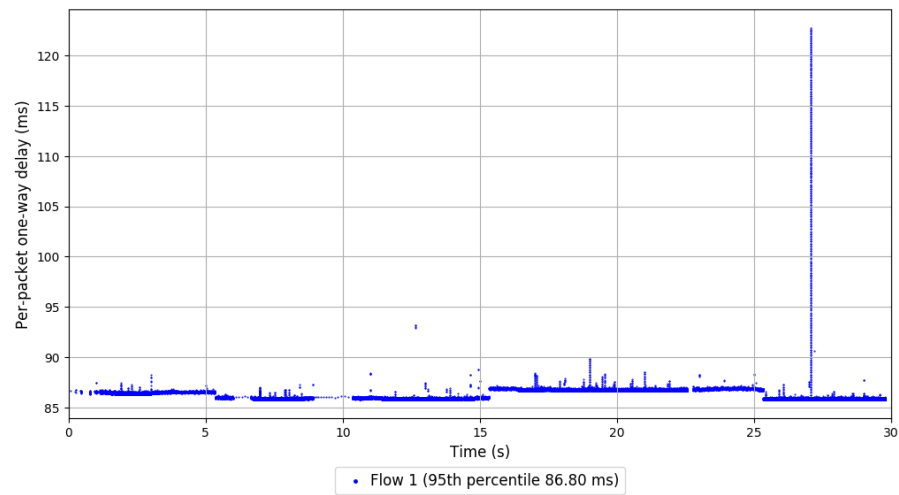
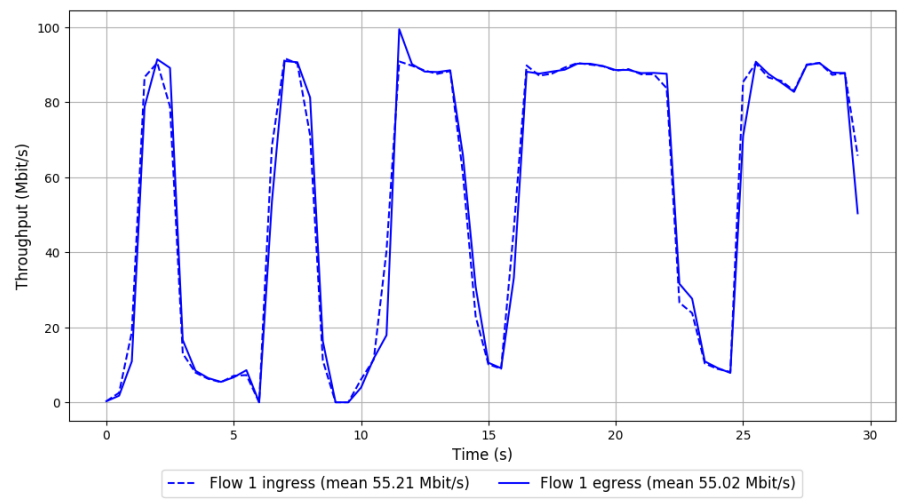


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-02-19 19:06:15
End at: 2018-02-19 19:06:45

# Below is generated by plot.py at 2018-02-19 22:27:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.02 Mbit/s
95th percentile per-packet one-way delay: 86.797 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 55.02 Mbit/s
95th percentile per-packet one-way delay: 86.797 ms
Loss rate: 0.92%
```

Run 10: Report of QUIC Cubic — Data Link

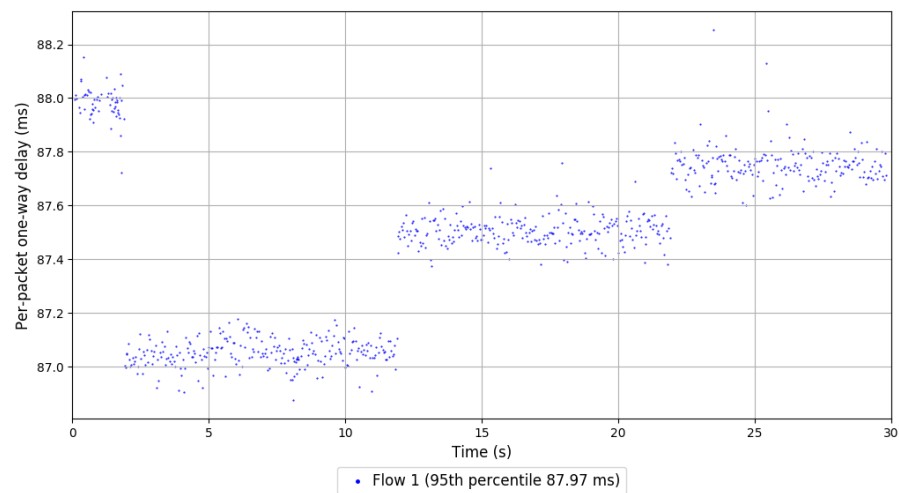
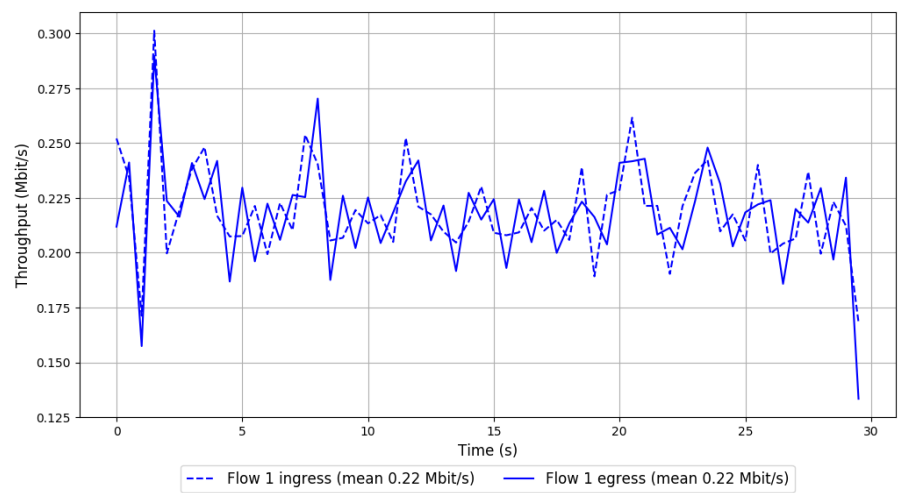


```
Run 1: Statistics of SCReAM

Start at: 2018-02-19 17:00:58
End at: 2018-02-19 17:01:28

# Below is generated by plot.py at 2018-02-19 22:27:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.969 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.969 ms
Loss rate: 0.52%
```

Run 1: Report of SReAM — Data Link

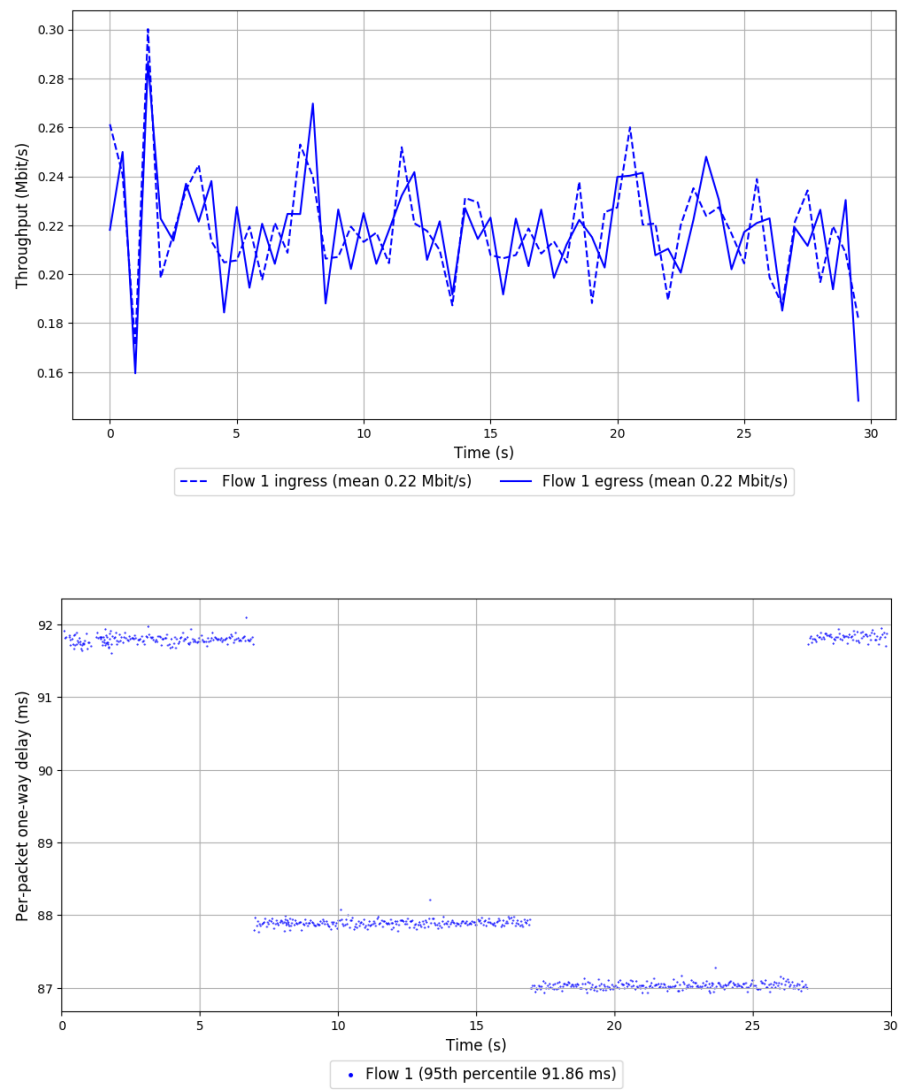


```
Run 2: Statistics of SCReAM

Start at: 2018-02-19 17:16:03
End at: 2018-02-19 17:16:33

# Below is generated by plot.py at 2018-02-19 22:27:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 91.860 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 91.860 ms
Loss rate: 0.50%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-02-19 17:30:57

End at: 2018-02-19 17:31:27

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 91.653 ms

Loss rate: 0.51%

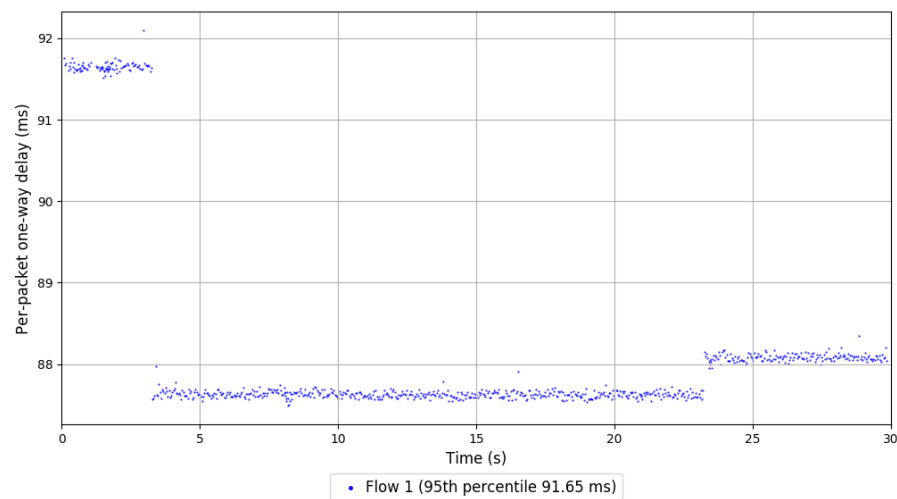
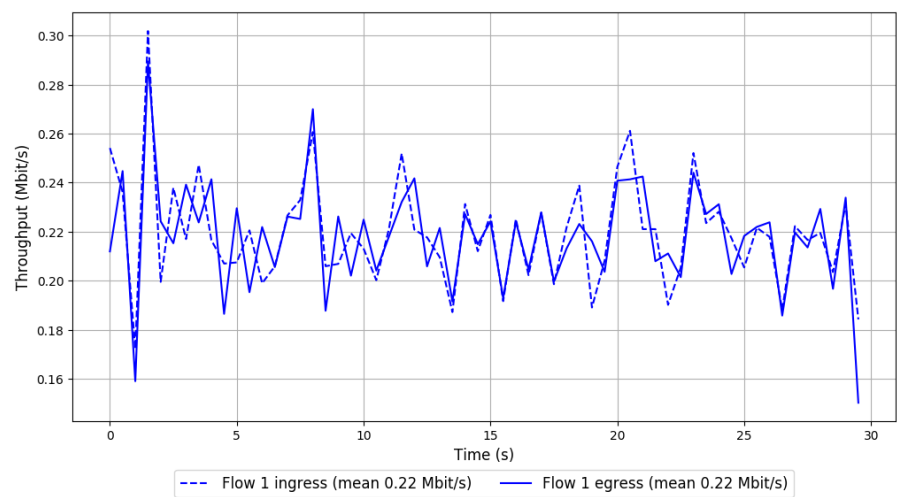
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 91.653 ms

Loss rate: 0.51%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-02-19 17:45:59

End at: 2018-02-19 17:46:29

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 92.496 ms

Loss rate: 0.51%

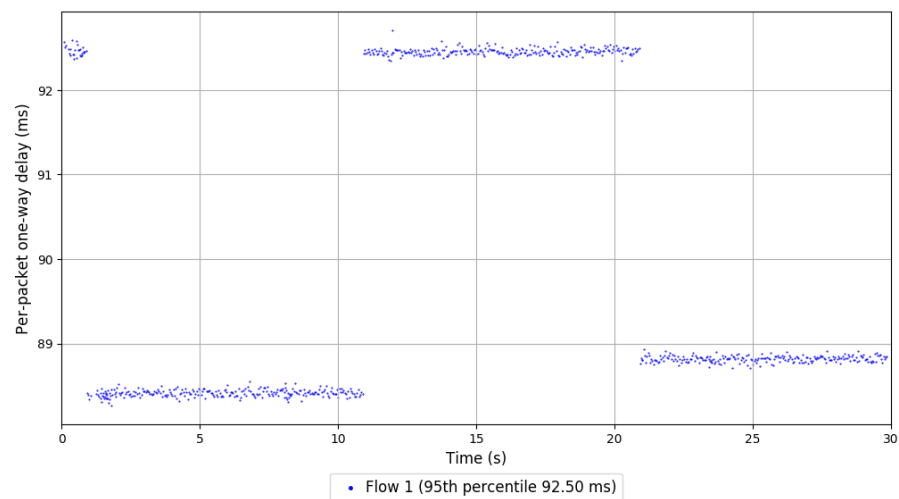
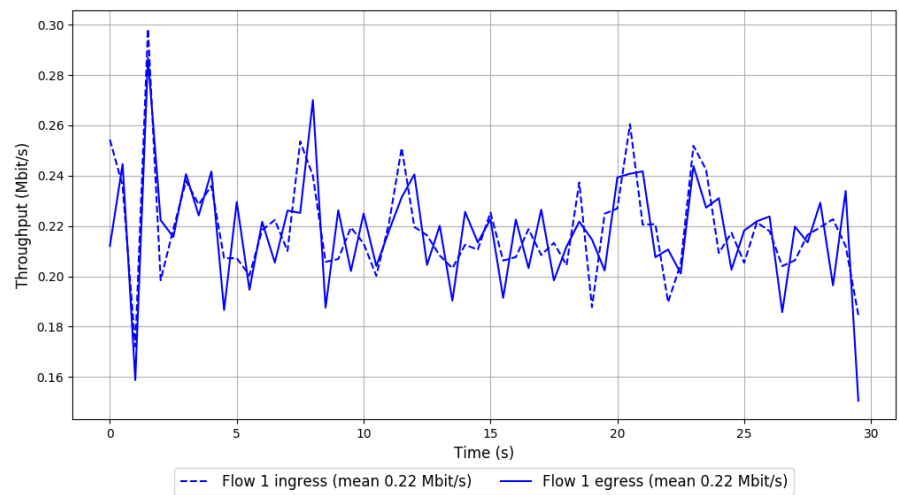
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 92.496 ms

Loss rate: 0.51%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-19 18:01:23

End at: 2018-02-19 18:01:53

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.716 ms

Loss rate: 0.51%

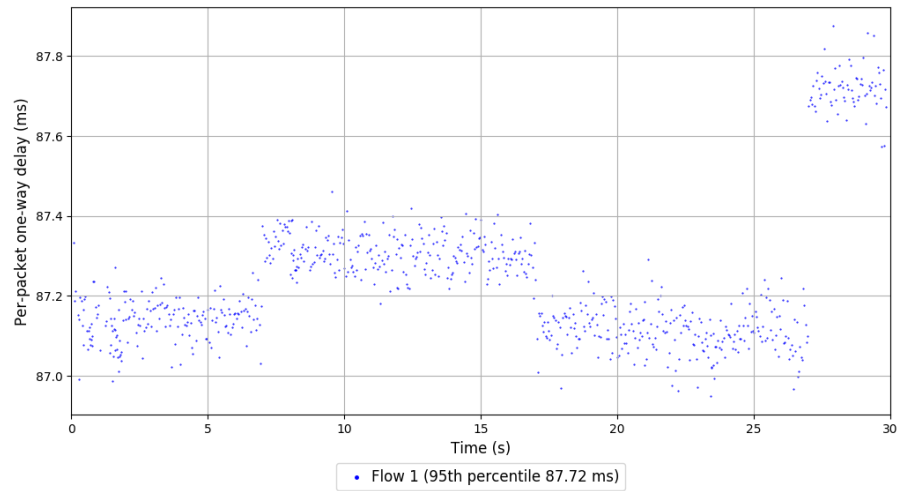
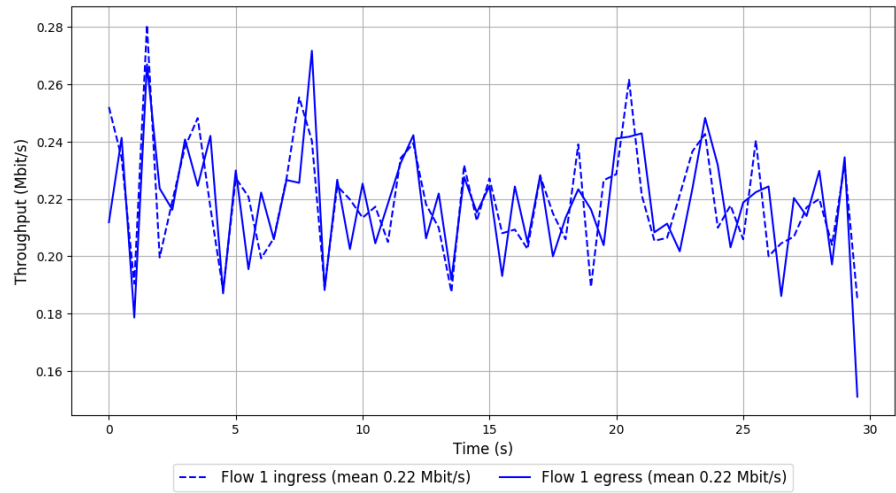
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.716 ms

Loss rate: 0.51%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-02-19 18:16:43

End at: 2018-02-19 18:17:13

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.975 ms

Loss rate: 0.51%

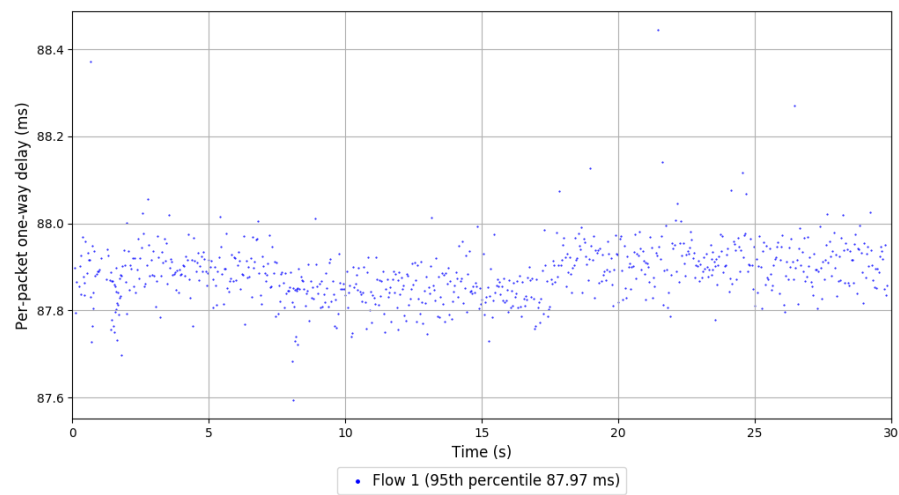
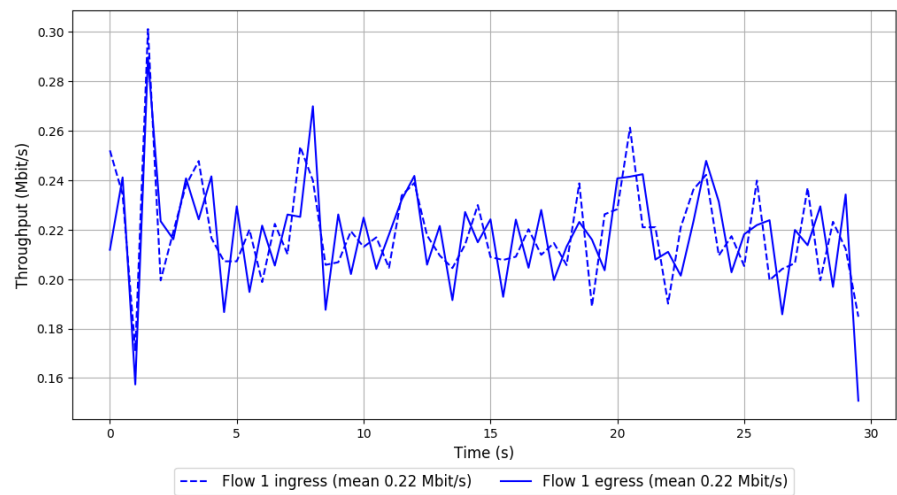
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.975 ms

Loss rate: 0.51%

Run 6: Report of SReAM — Data Link

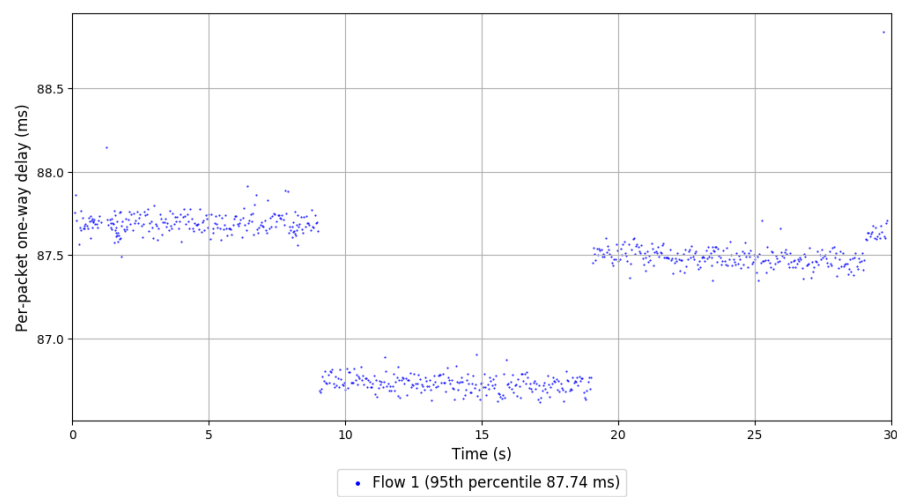
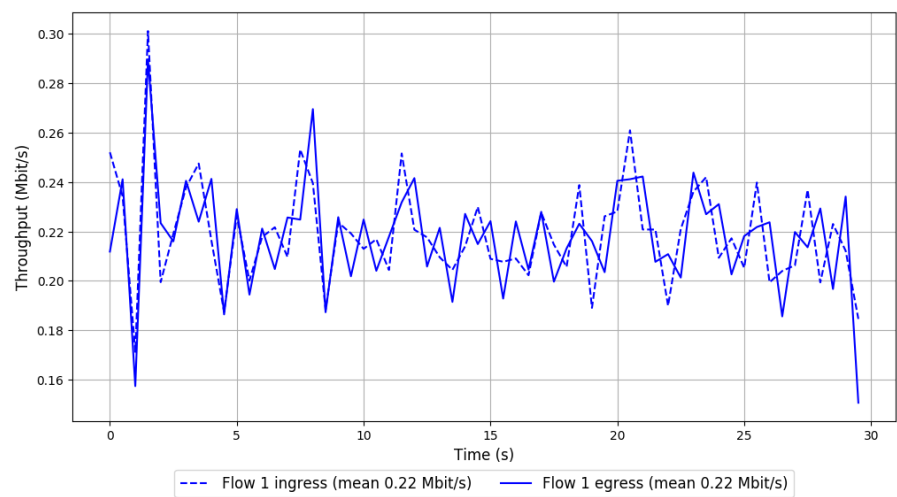


```
Run 7: Statistics of SCReAM

Start at: 2018-02-19 18:32:11
End at: 2018-02-19 18:32:41

# Below is generated by plot.py at 2018-02-19 22:27:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.743 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.743 ms
Loss rate: 0.51%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-19 18:47:54

End at: 2018-02-19 18:48:24

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 90.778 ms

Loss rate: 0.51%

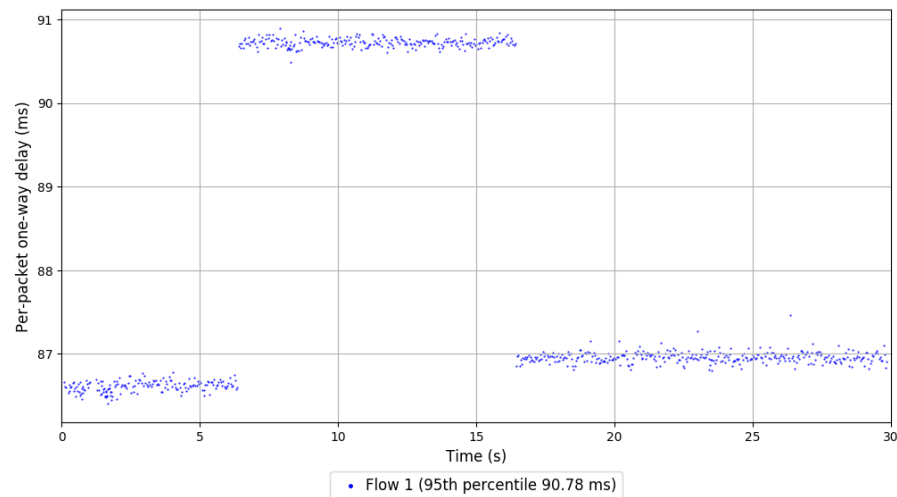
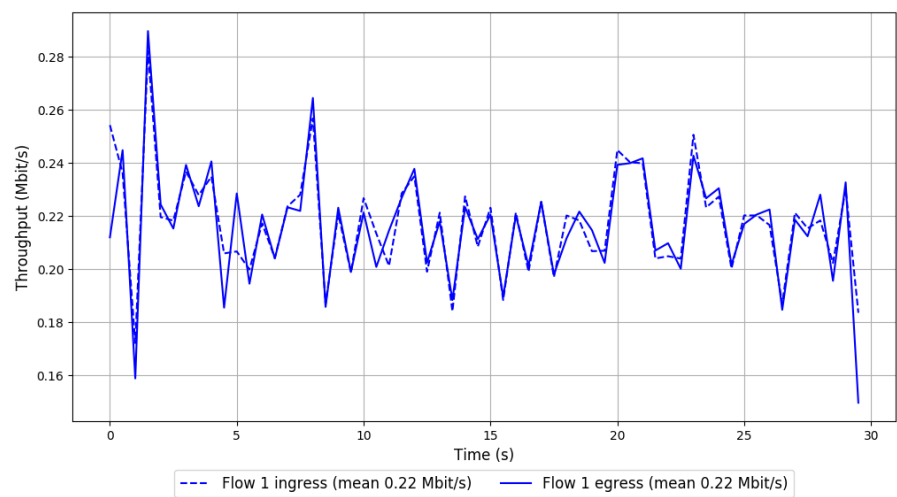
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 90.778 ms

Loss rate: 0.51%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-02-19 19:03:53

End at: 2018-02-19 19:04:23

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 90.680 ms

Loss rate: 0.51%

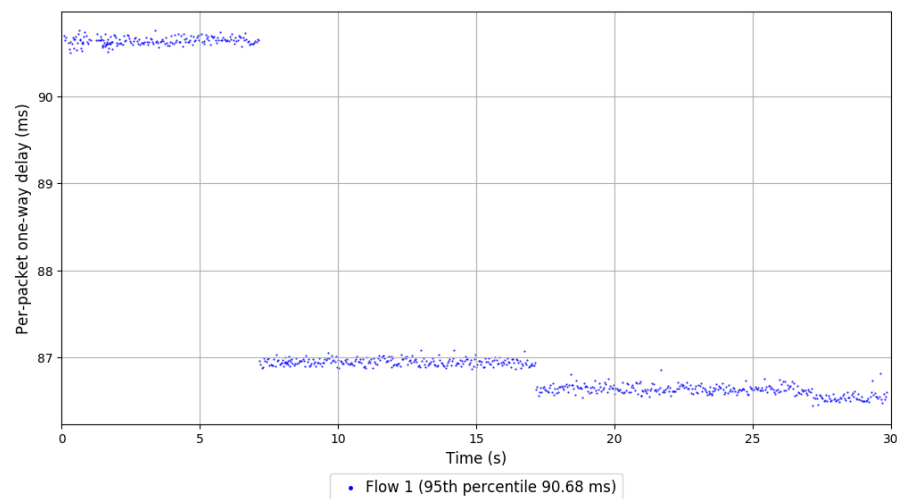
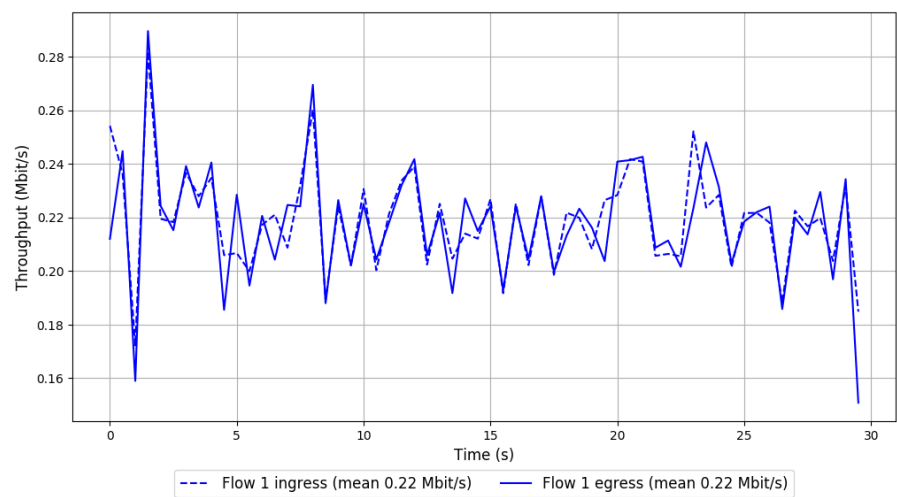
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 90.680 ms

Loss rate: 0.51%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-19 19:18:50

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

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.328 ms

Loss rate: 0.51%

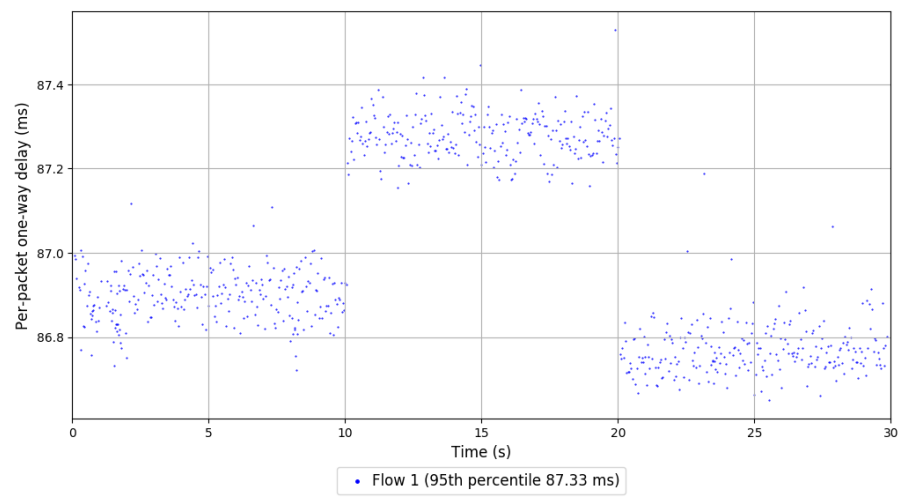
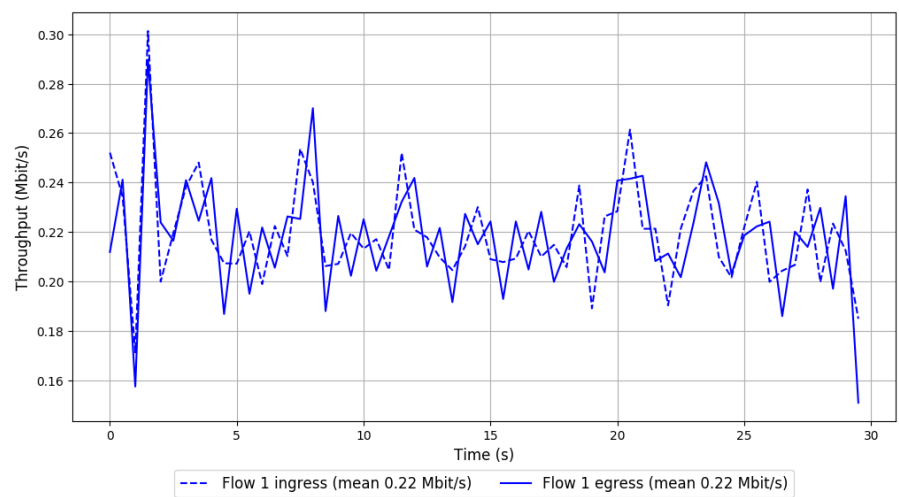
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.328 ms

Loss rate: 0.51%

Run 10: Report of SCRaM — Data Link

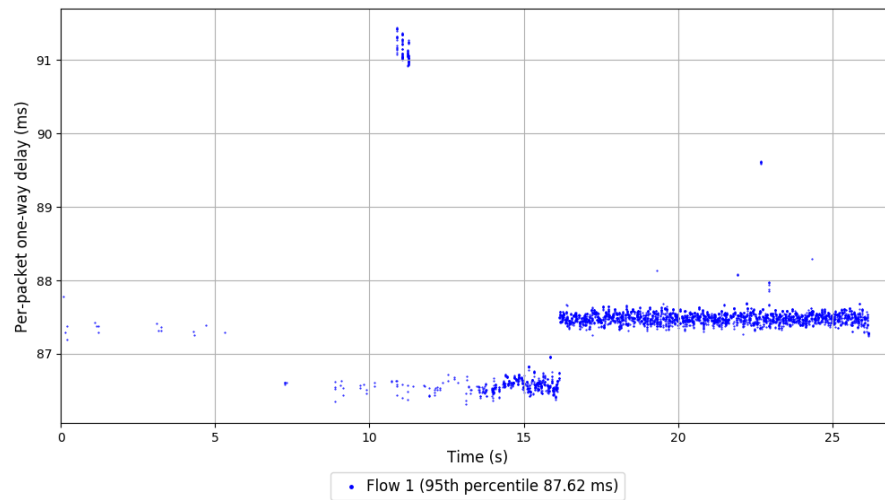
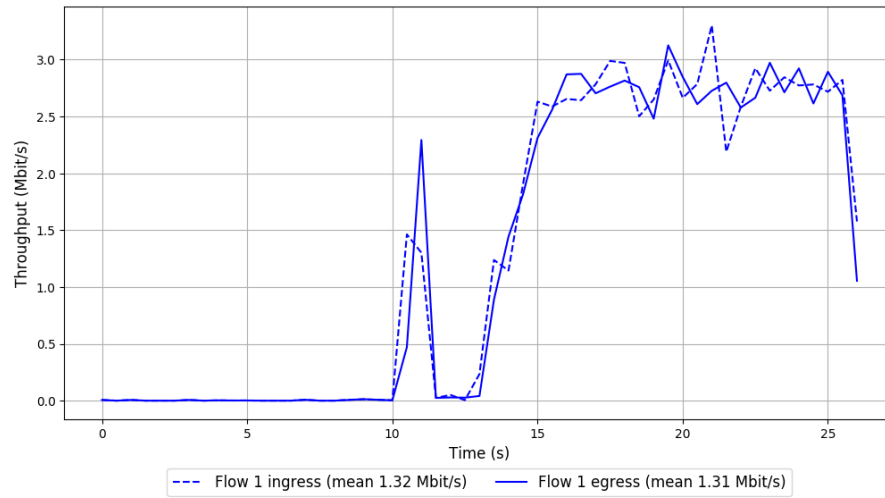


```
Run 1: Statistics of WebRTC media

Start at: 2018-02-19 16:50:31
End at: 2018-02-19 16:51:01

# Below is generated by plot.py at 2018-02-19 22:27:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 87.618 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 87.618 ms
Loss rate: 1.57%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-19 17:05:47

End at: 2018-02-19 17:06:17

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 87.379 ms

Loss rate: 0.76%

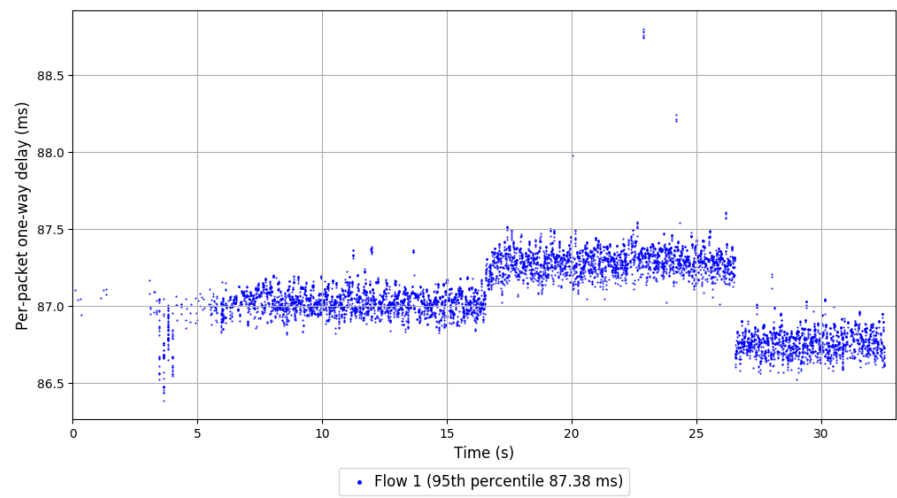
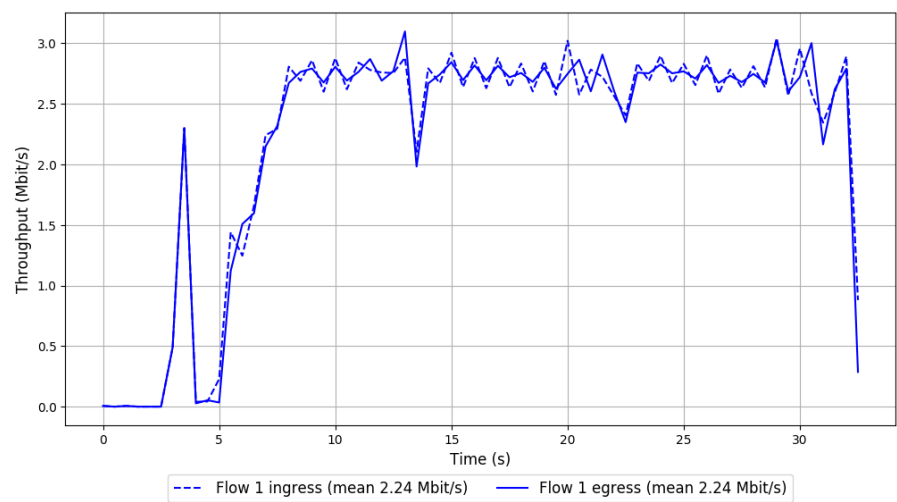
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 87.379 ms

Loss rate: 0.76%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-19 17:20:48

End at: 2018-02-19 17:21:18

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 91.695 ms

Loss rate: 0.78%

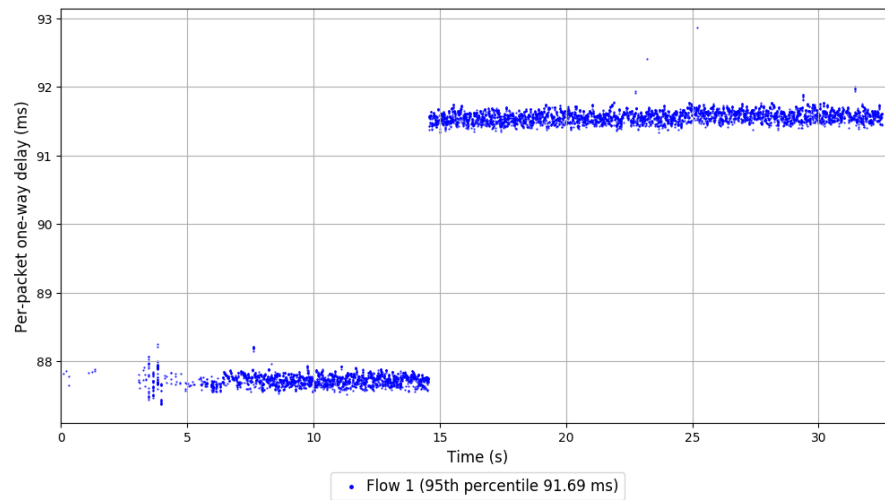
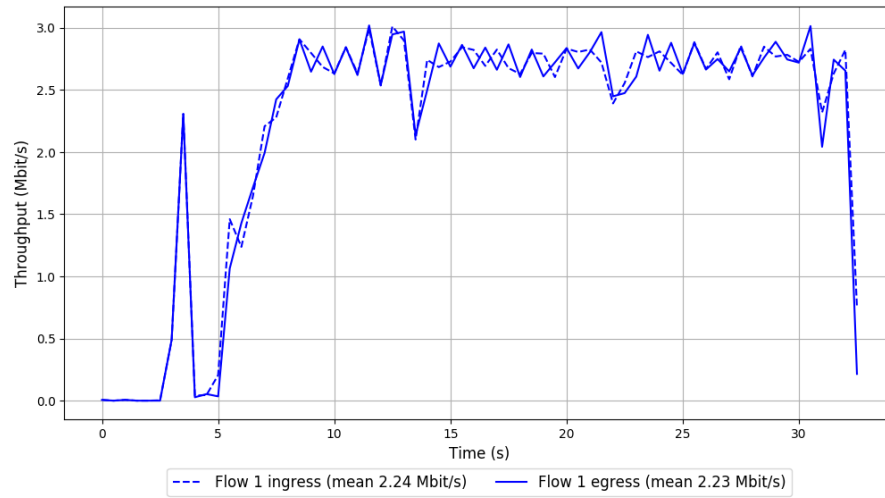
-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 91.695 ms

Loss rate: 0.78%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-19 17:35:40

End at: 2018-02-19 17:36:10

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 91.982 ms

Loss rate: 0.62%

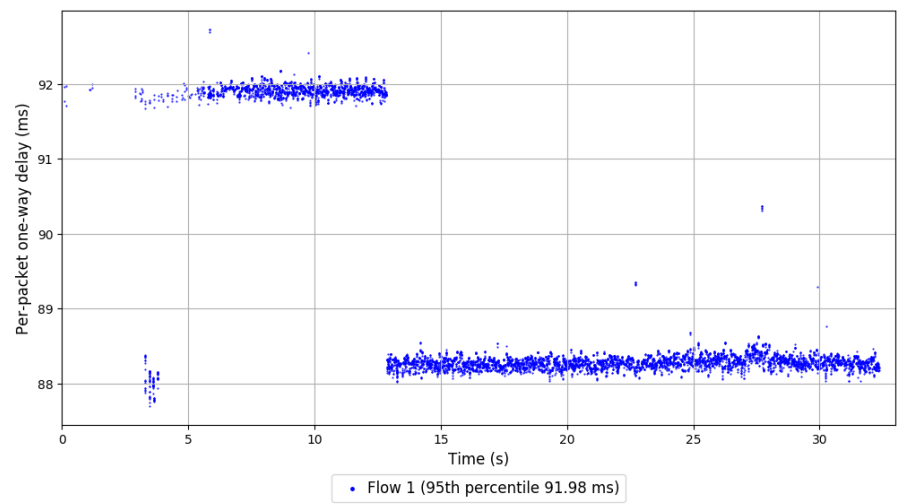
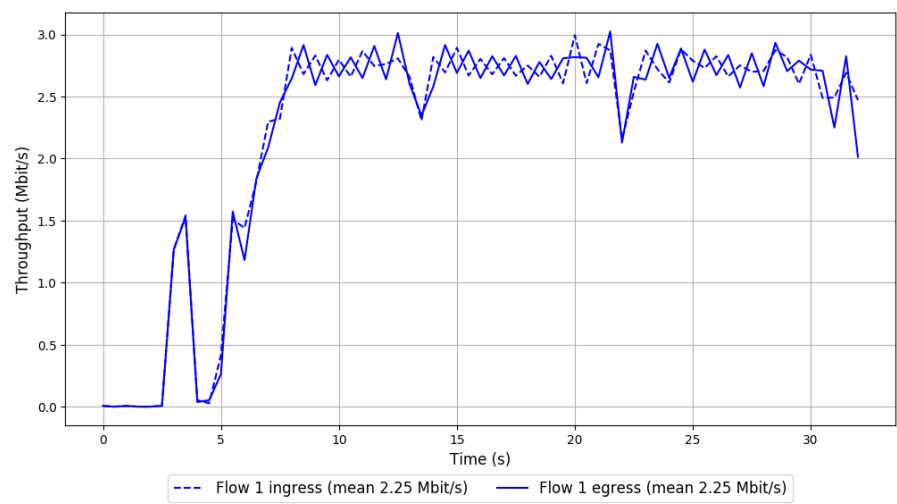
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 91.982 ms

Loss rate: 0.62%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-19 17:50:54

End at: 2018-02-19 17:51:24

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 89.313 ms

Loss rate: 0.66%

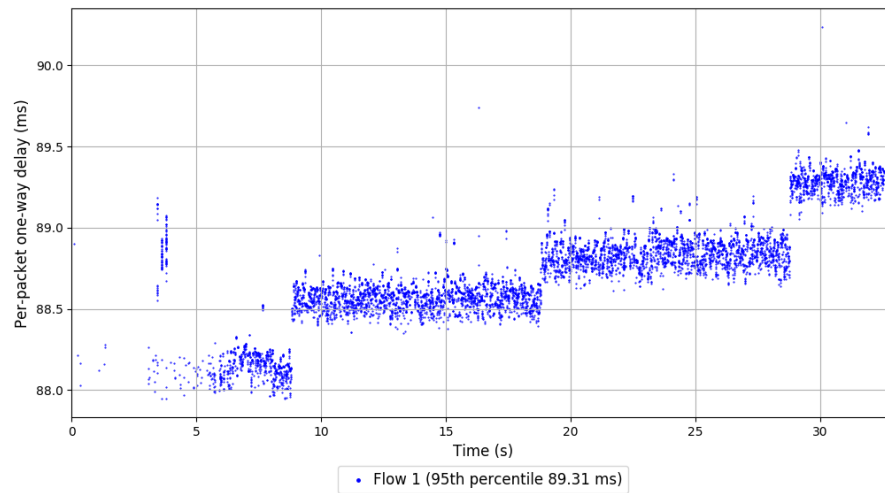
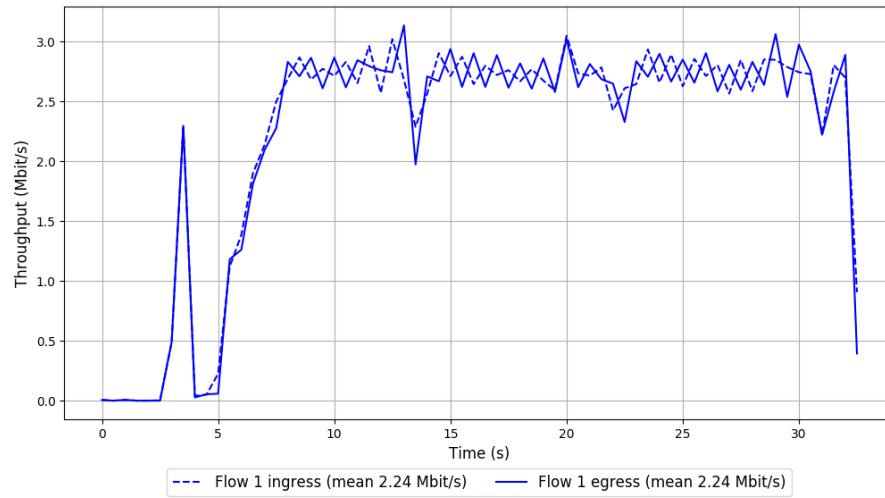
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 89.313 ms

Loss rate: 0.66%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-19 18:06:13

End at: 2018-02-19 18:06:43

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 91.670 ms

Loss rate: 0.62%

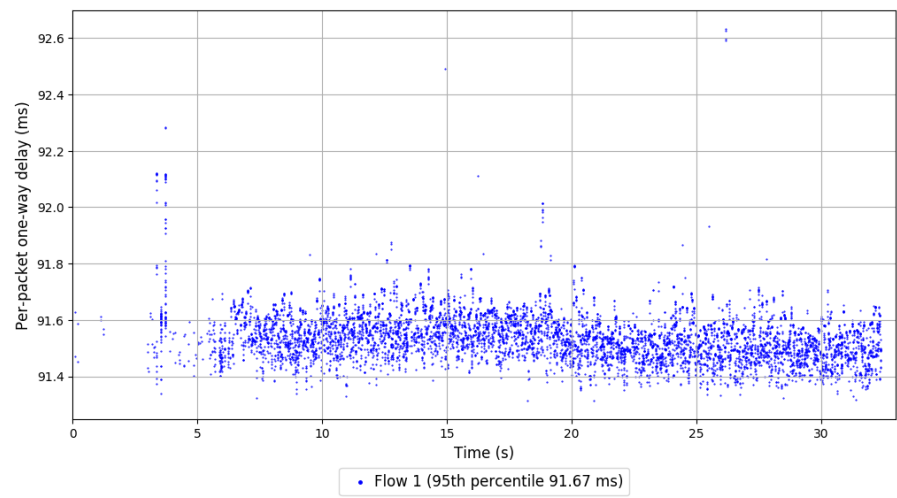
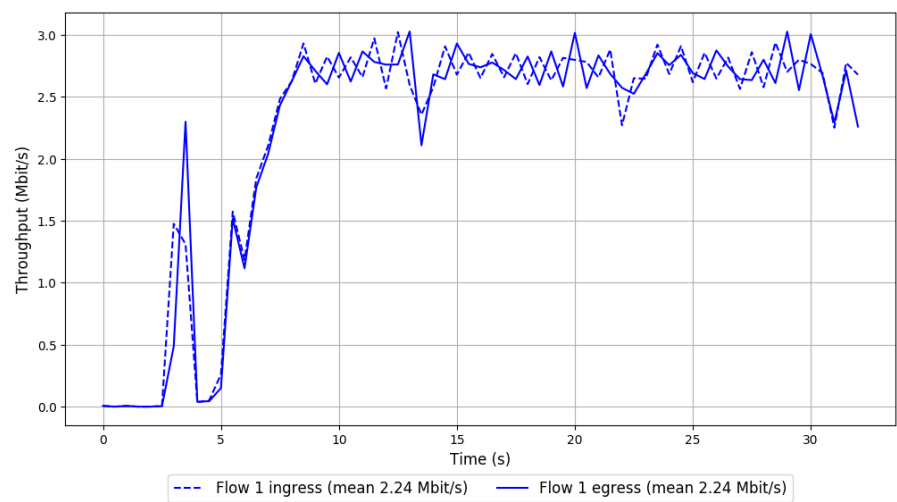
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 91.670 ms

Loss rate: 0.62%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-19 18:21:43

End at: 2018-02-19 18:22:13

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 88.055 ms

Loss rate: 0.62%

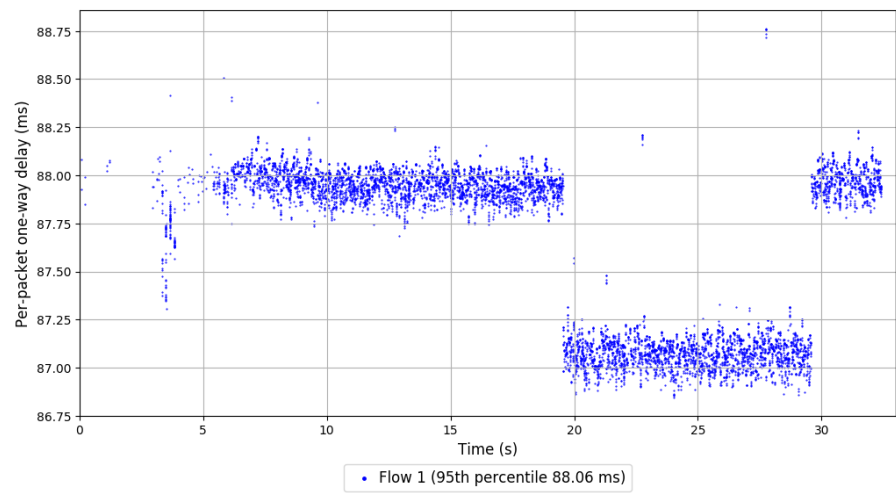
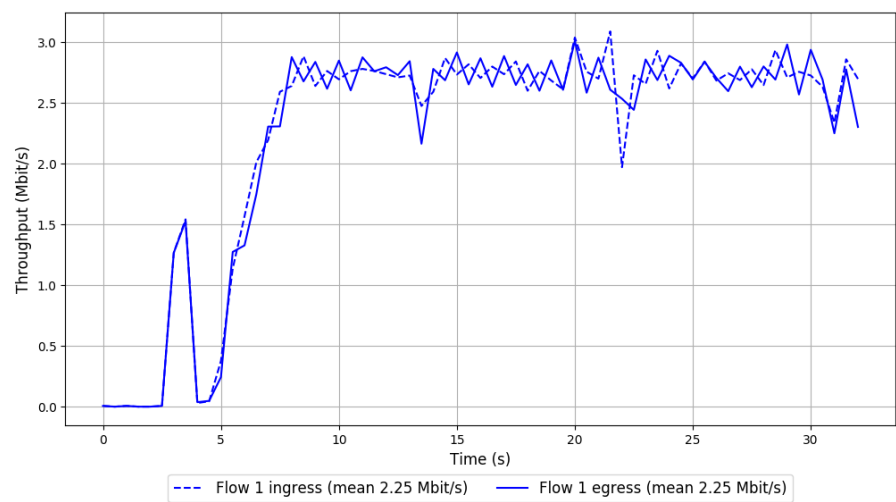
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 88.055 ms

Loss rate: 0.62%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-19 18:37:09

End at: 2018-02-19 18:37:39

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 90.908 ms

Loss rate: 0.61%

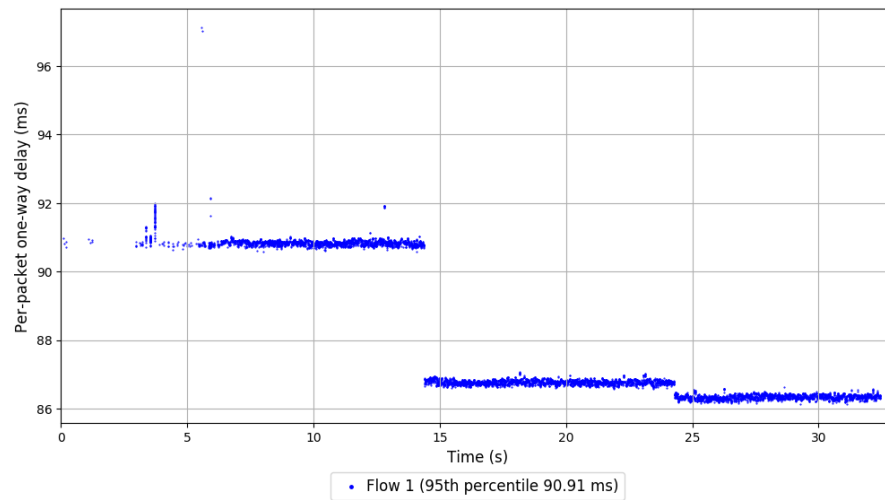
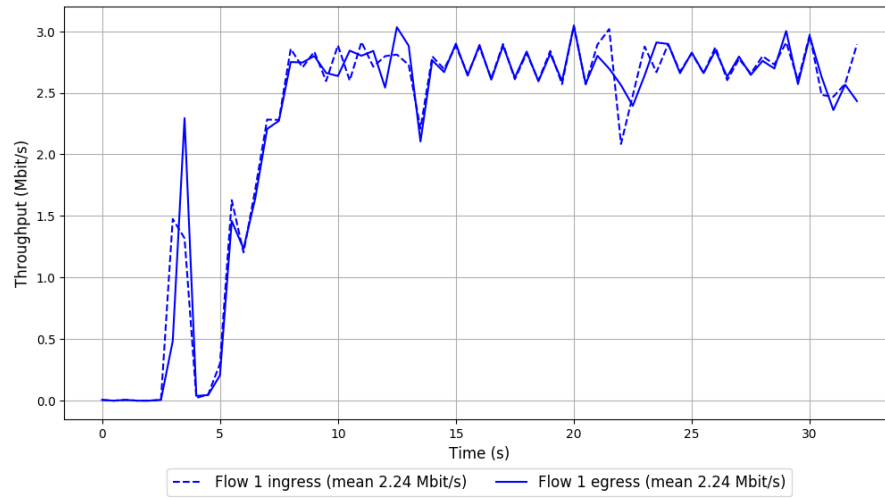
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 90.908 ms

Loss rate: 0.61%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-19 18:53:18

End at: 2018-02-19 18:53:48

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 86.677 ms

Loss rate: 0.62%

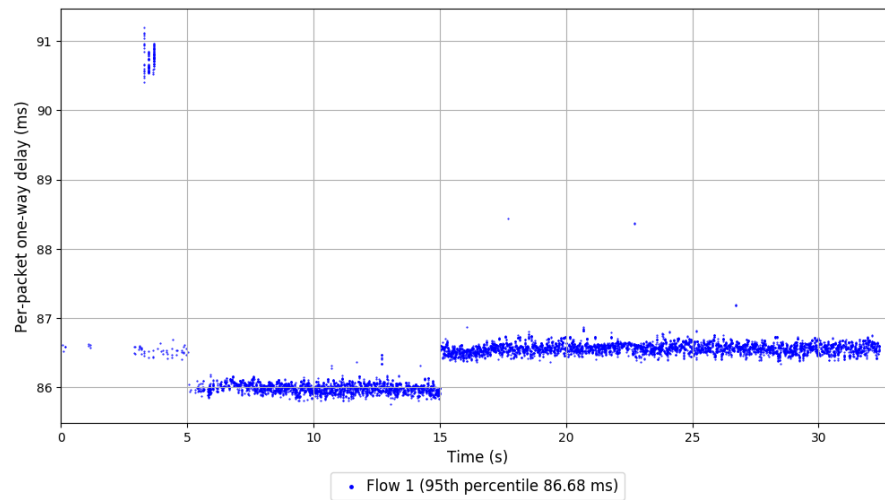
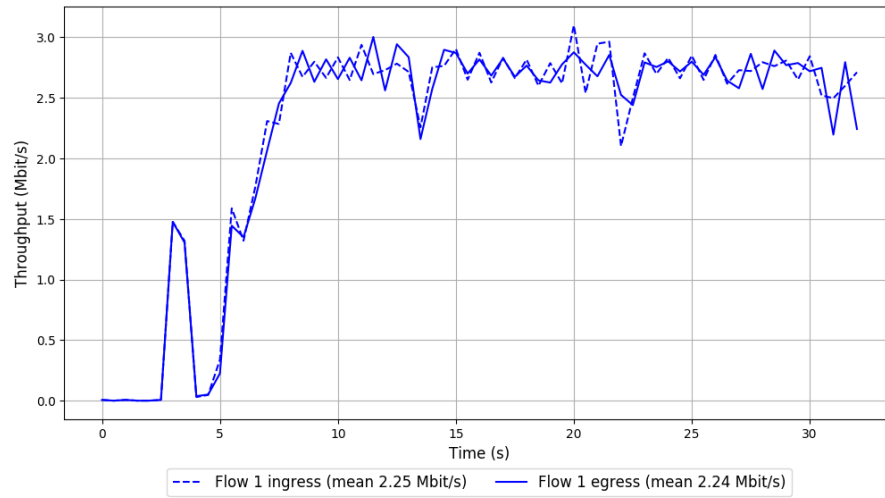
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 86.677 ms

Loss rate: 0.62%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-19 19:08:37

End at: 2018-02-19 19:09:07

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 90.739 ms

Loss rate: 0.77%

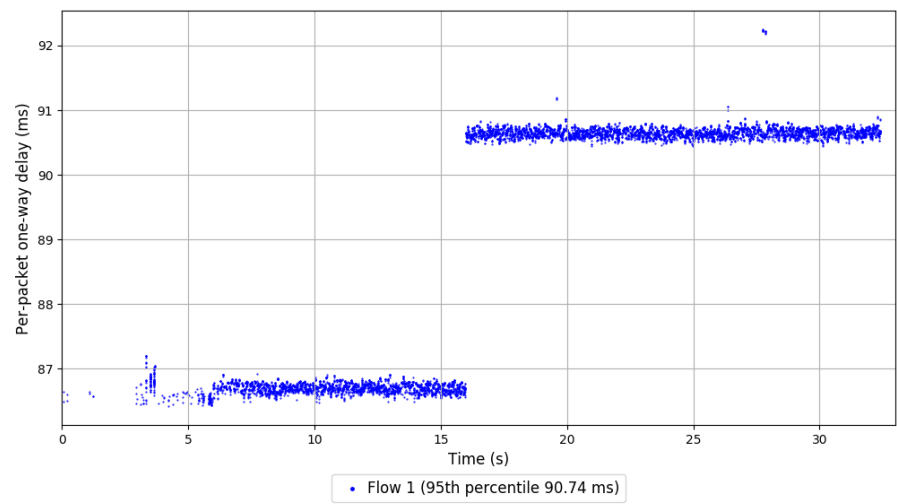
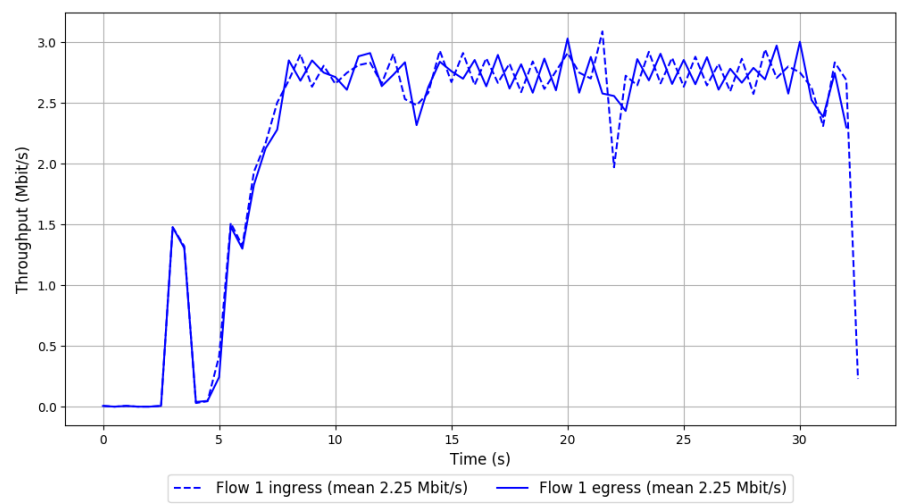
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 90.739 ms

Loss rate: 0.77%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-19 16:52:14

End at: 2018-02-19 16:52:44

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.71 Mbit/s

95th percentile per-packet one-way delay: 91.995 ms

Loss rate: 1.11%

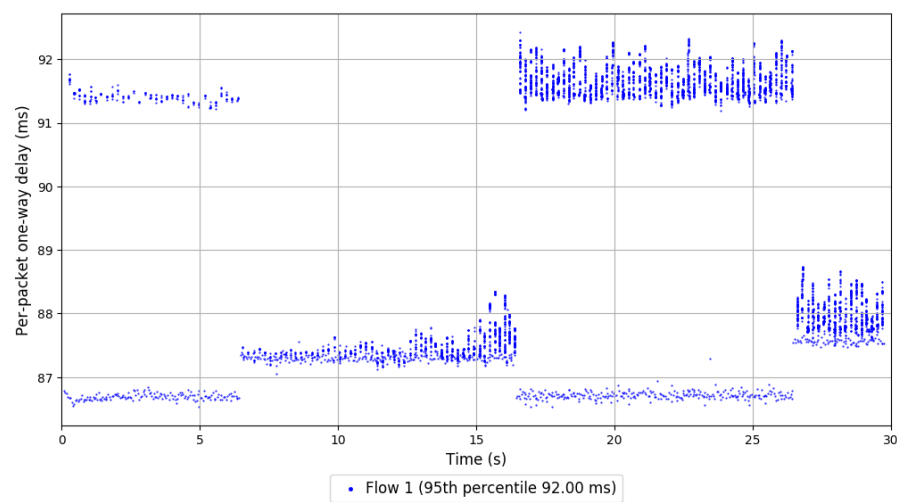
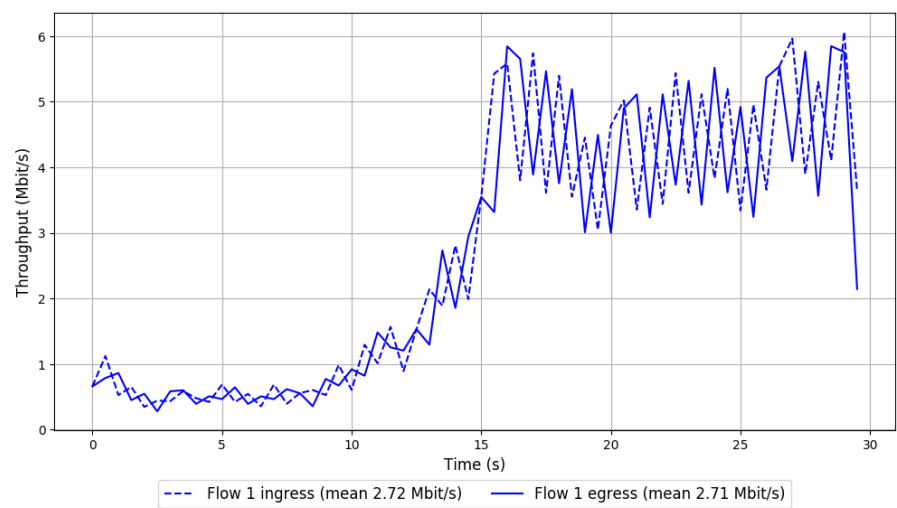
-- Flow 1:

Average throughput: 2.71 Mbit/s

95th percentile per-packet one-way delay: 91.995 ms

Loss rate: 1.11%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-19 17:07:32

End at: 2018-02-19 17:08:02

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.17 Mbit/s

95th percentile per-packet one-way delay: 91.700 ms

Loss rate: 0.05%

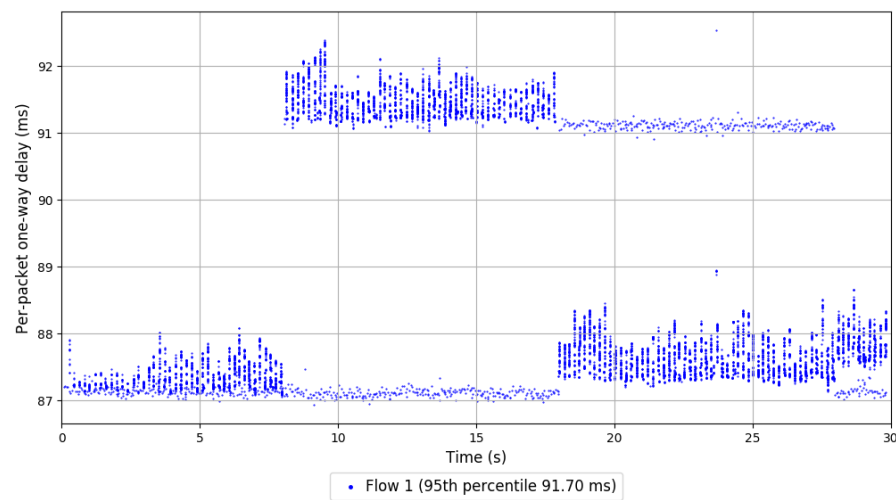
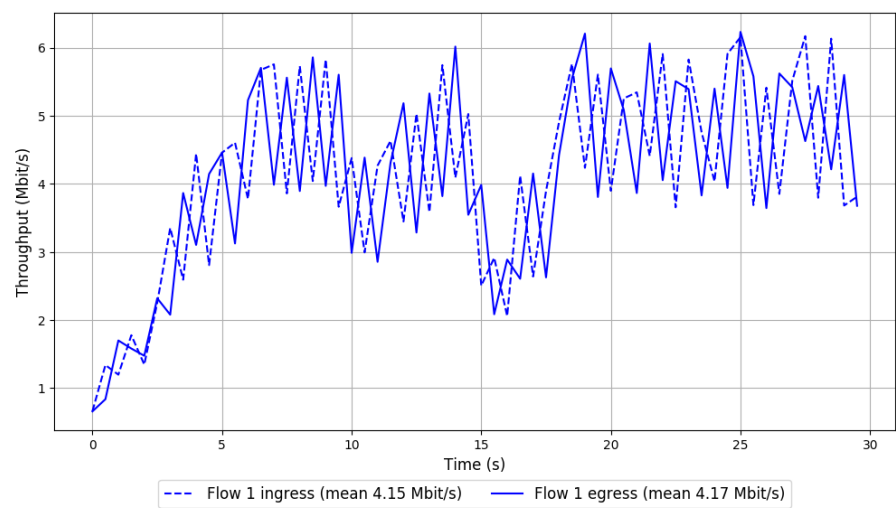
-- Flow 1:

Average throughput: 4.17 Mbit/s

95th percentile per-packet one-way delay: 91.700 ms

Loss rate: 0.05%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-19 17:22:22

End at: 2018-02-19 17:22:52

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.00 Mbit/s

95th percentile per-packet one-way delay: 88.888 ms

Loss rate: 0.77%

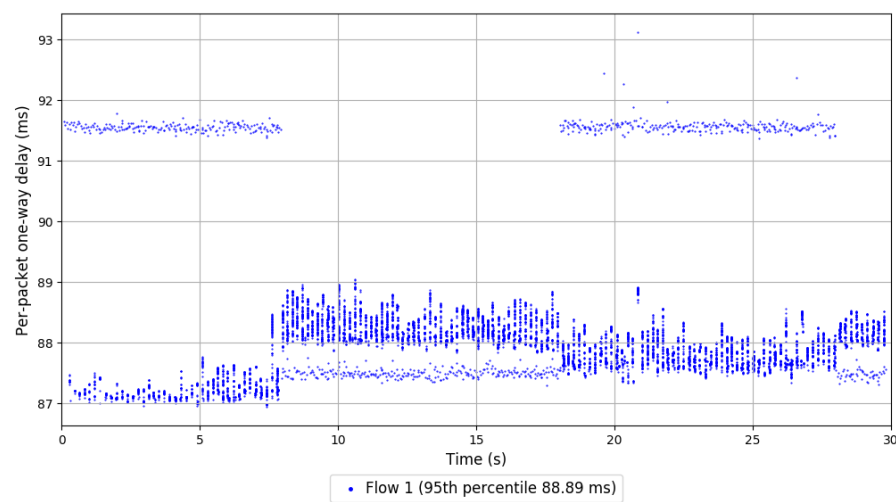
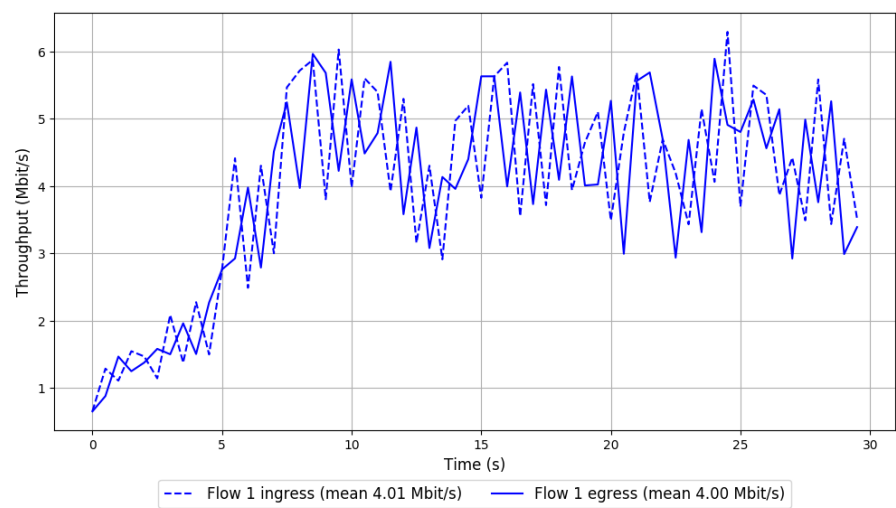
-- Flow 1:

Average throughput: 4.00 Mbit/s

95th percentile per-packet one-way delay: 88.888 ms

Loss rate: 0.77%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-19 17:37:24

End at: 2018-02-19 17:37:54

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.21 Mbit/s

95th percentile per-packet one-way delay: 89.137 ms

Loss rate: 0.98%

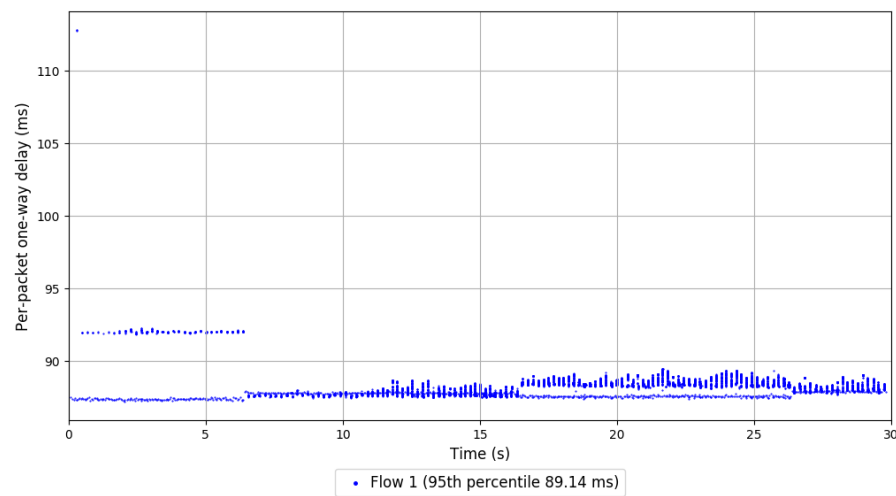
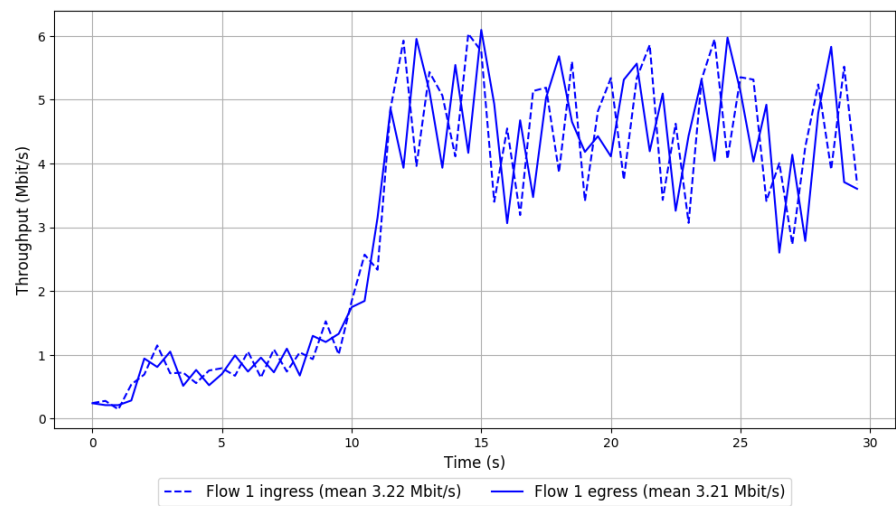
-- Flow 1:

Average throughput: 3.21 Mbit/s

95th percentile per-packet one-way delay: 89.137 ms

Loss rate: 0.98%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-19 17:52:39

End at: 2018-02-19 17:53:09

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.39 Mbit/s

95th percentile per-packet one-way delay: 89.455 ms

Loss rate: 0.72%

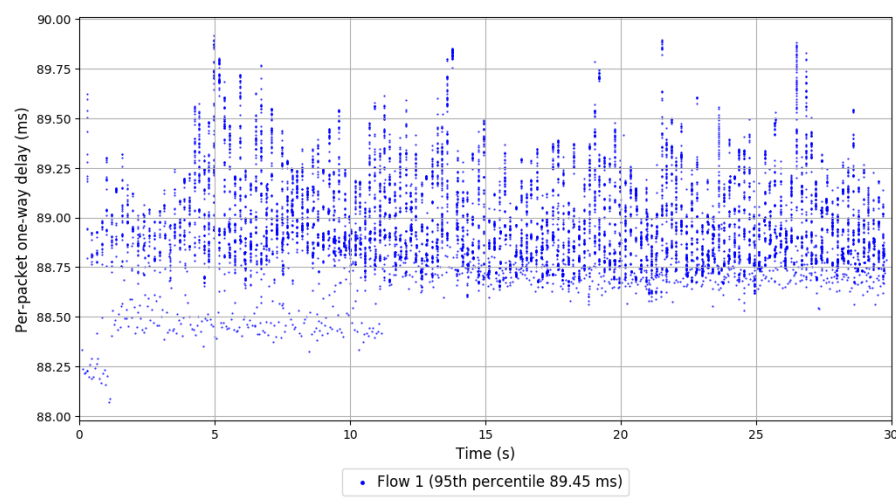
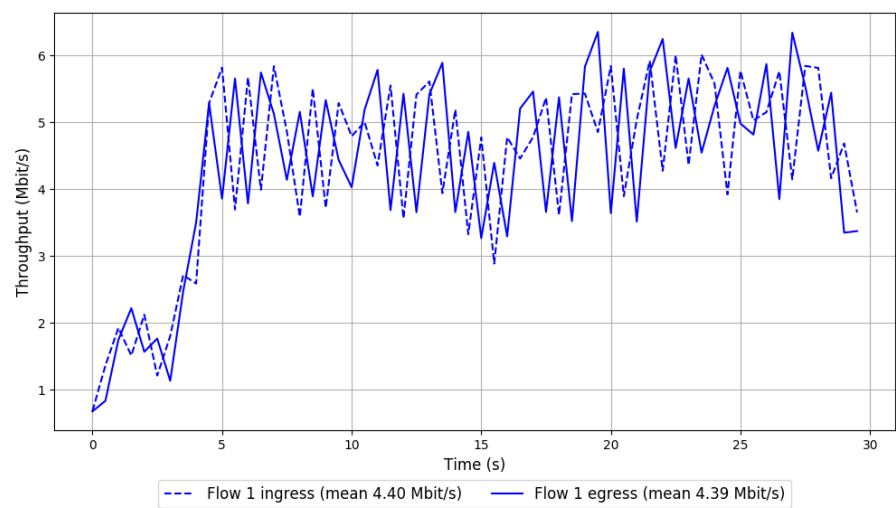
-- Flow 1:

Average throughput: 4.39 Mbit/s

95th percentile per-packet one-way delay: 89.455 ms

Loss rate: 0.72%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-19 18:07:59

End at: 2018-02-19 18:08:29

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.11 Mbit/s

95th percentile per-packet one-way delay: 92.077 ms

Loss rate: 0.24%

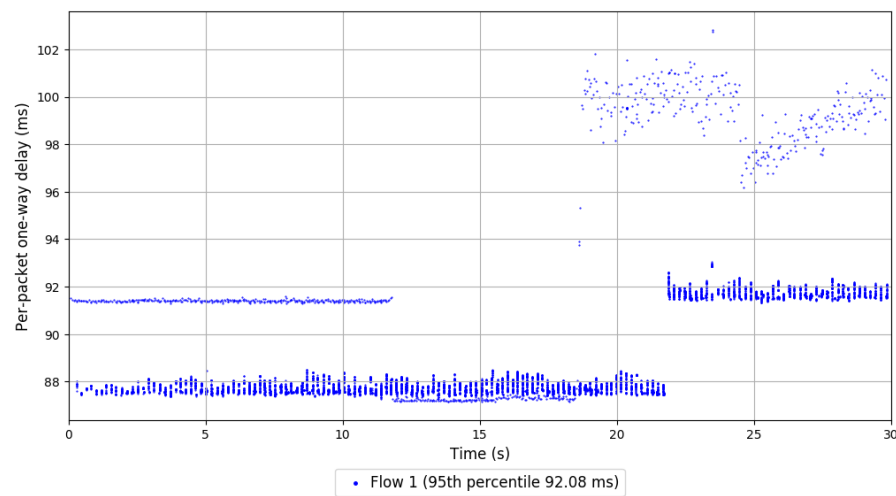
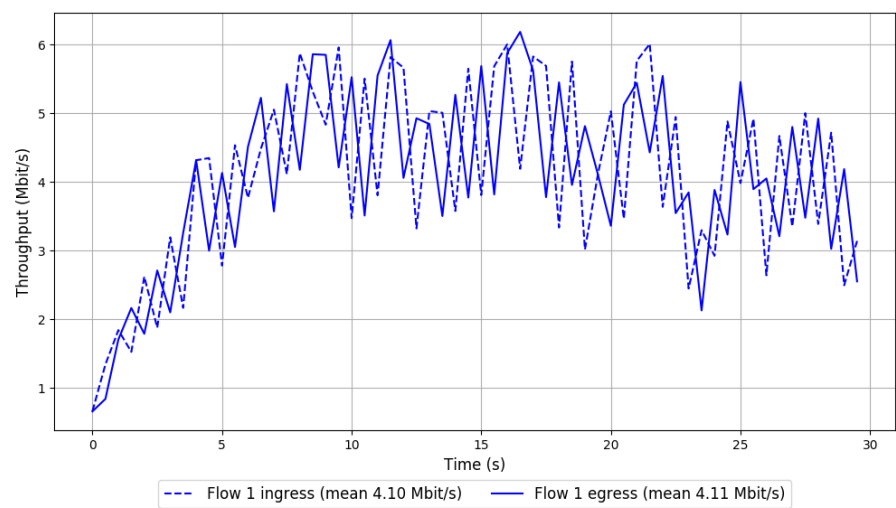
-- Flow 1:

Average throughput: 4.11 Mbit/s

95th percentile per-packet one-way delay: 92.077 ms

Loss rate: 0.24%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-19 18:23:29

End at: 2018-02-19 18:23:59

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.47 Mbit/s

95th percentile per-packet one-way delay: 91.854 ms

Loss rate: 1.67%

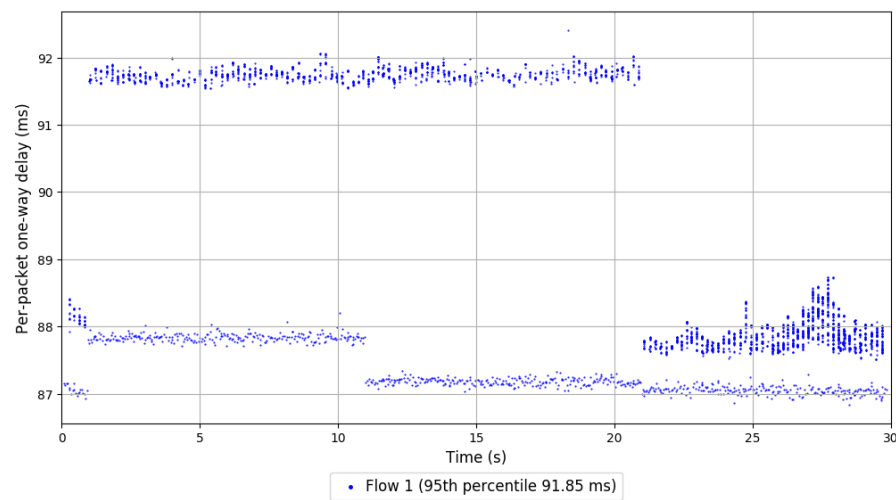
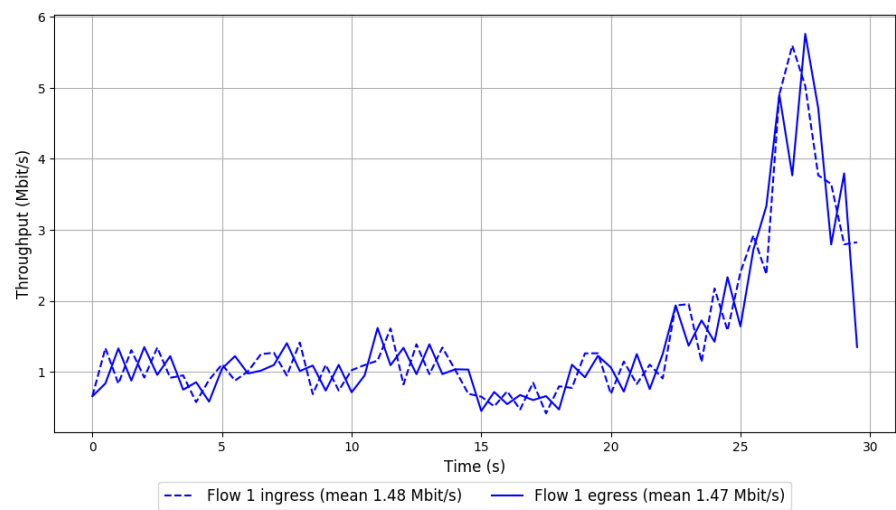
-- Flow 1:

Average throughput: 1.47 Mbit/s

95th percentile per-packet one-way delay: 91.854 ms

Loss rate: 1.67%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-19 18:38:53

End at: 2018-02-19 18:39:23

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.47 Mbit/s

95th percentile per-packet one-way delay: 91.143 ms

Loss rate: 0.67%

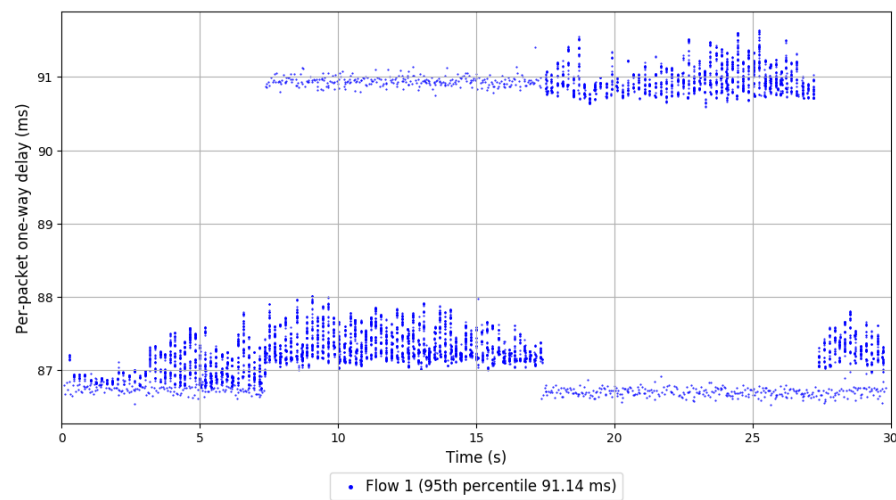
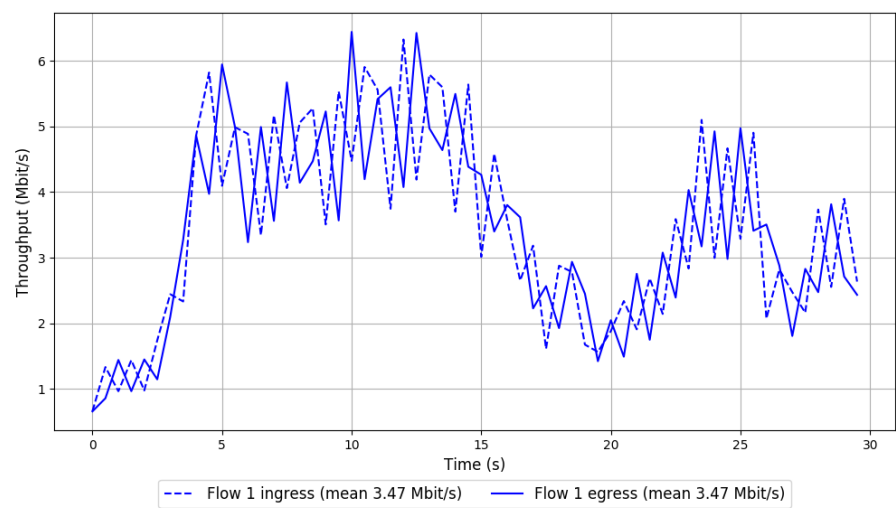
-- Flow 1:

Average throughput: 3.47 Mbit/s

95th percentile per-packet one-way delay: 91.143 ms

Loss rate: 0.67%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-19 18:55:04

End at: 2018-02-19 18:55:34

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.53 Mbit/s

95th percentile per-packet one-way delay: 91.190 ms

Loss rate: 1.25%

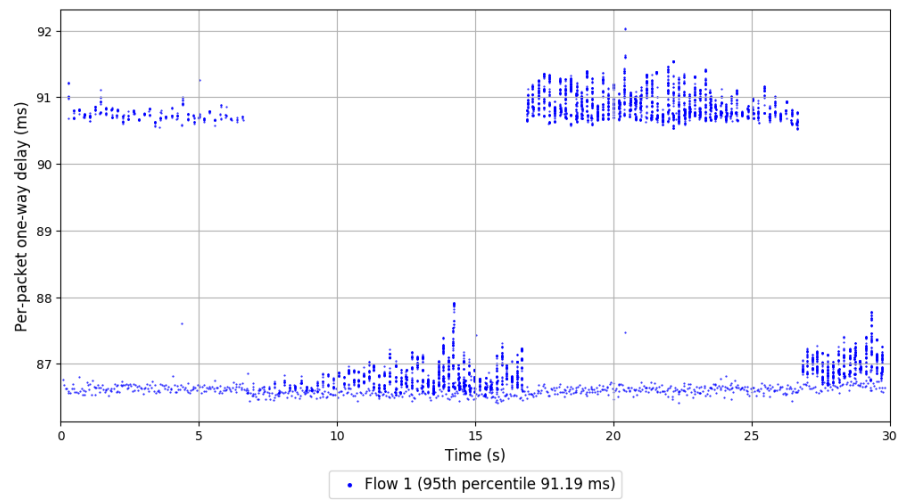
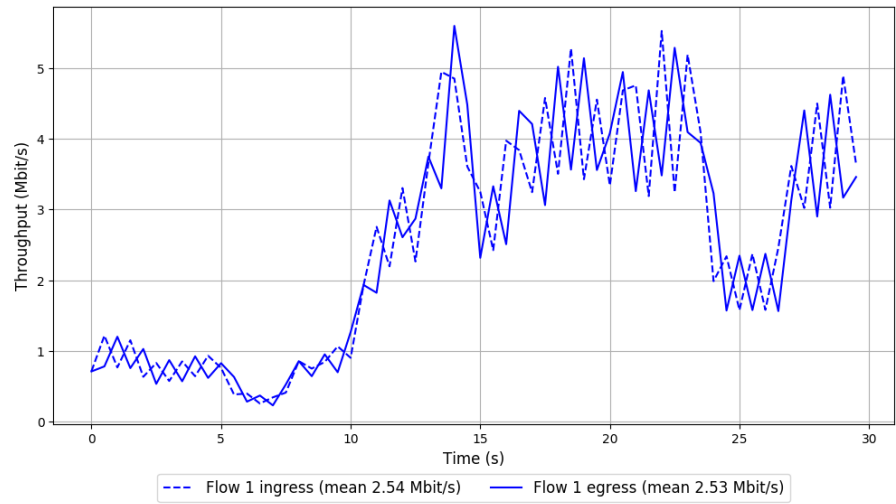
-- Flow 1:

Average throughput: 2.53 Mbit/s

95th percentile per-packet one-way delay: 91.190 ms

Loss rate: 1.25%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-19 19:10:20

End at: 2018-02-19 19:10:50

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 91.303 ms

Loss rate: 1.14%

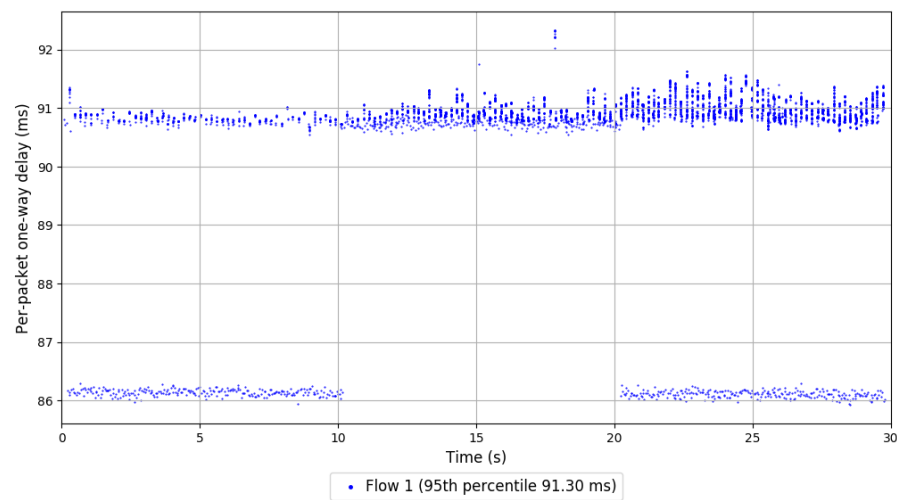
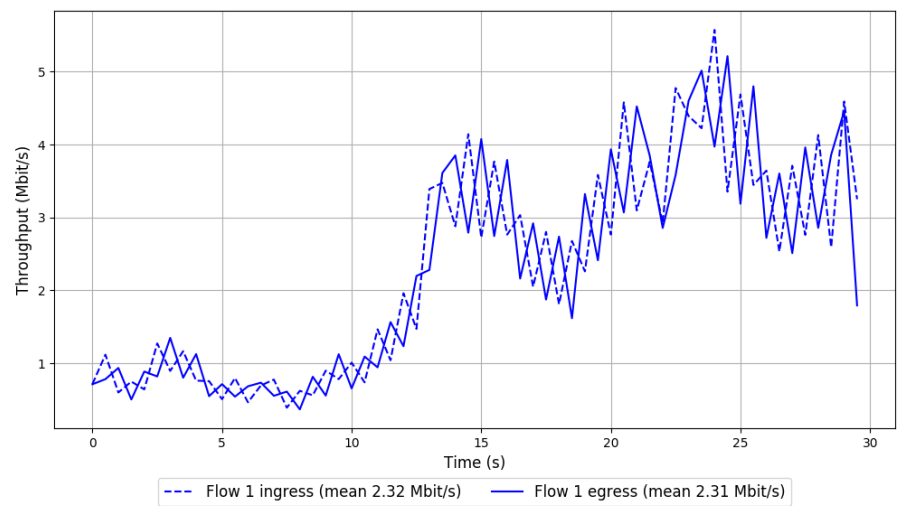
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 91.303 ms

Loss rate: 1.14%

Run 10: Report of Sprout — Data Link

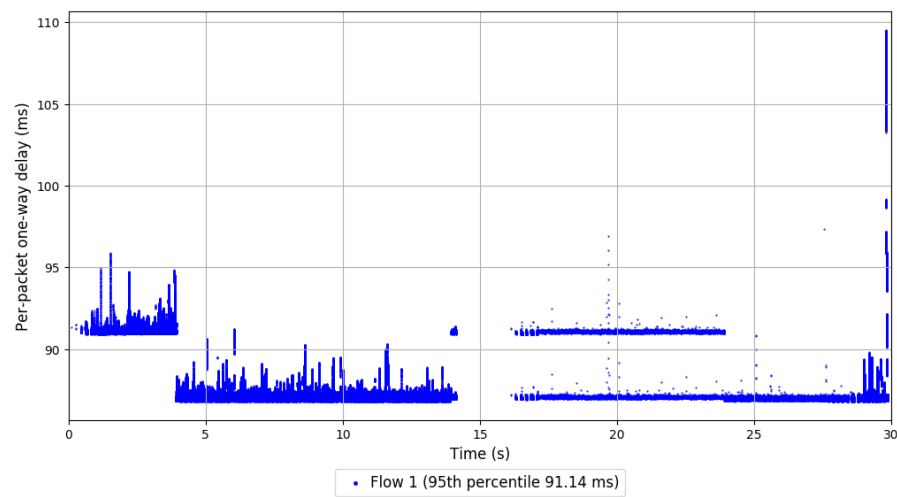
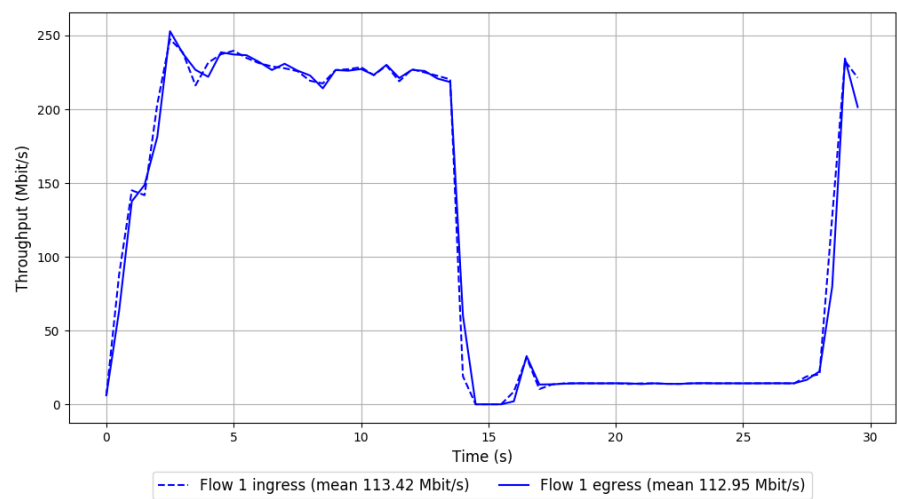


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-19 16:54:06
End at: 2018-02-19 16:54:36

# Below is generated by plot.py at 2018-02-19 22:27:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 112.95 Mbit/s
95th percentile per-packet one-way delay: 91.137 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 112.95 Mbit/s
95th percentile per-packet one-way delay: 91.137 ms
Loss rate: 1.01%
```


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

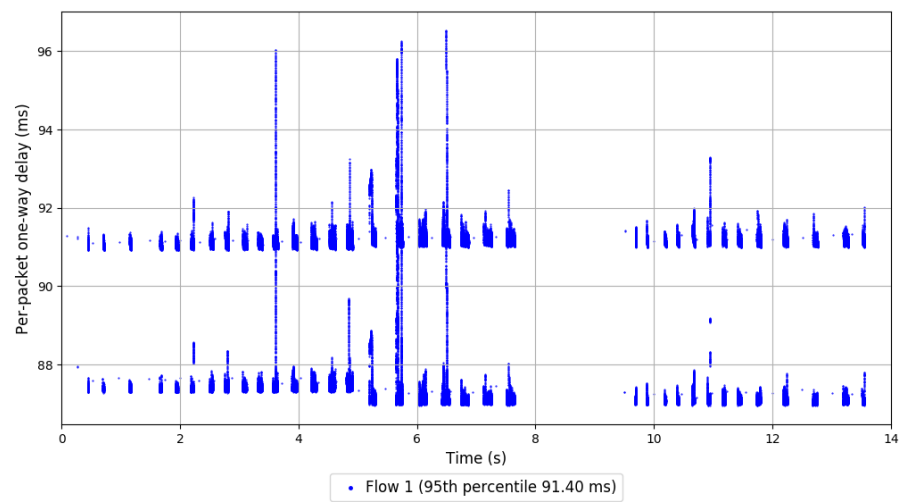
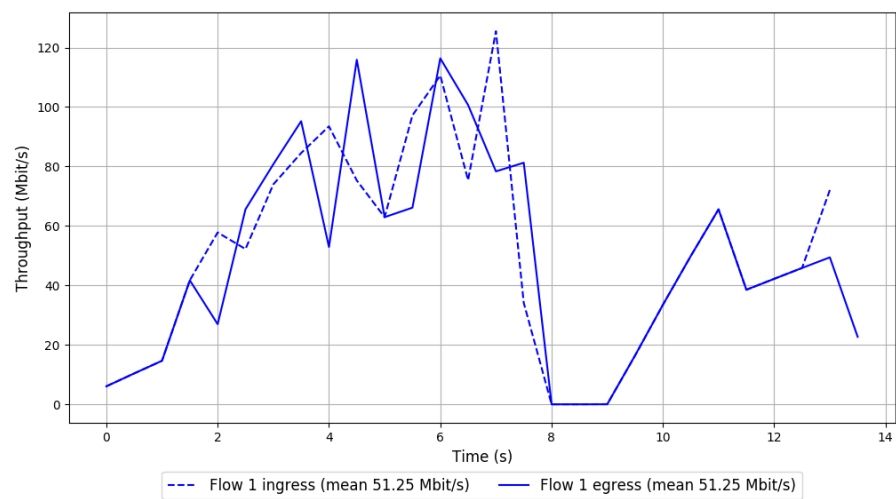


Run 2: Statistics of TaoVA-100x

Start at: 2018-02-19 17:09:25

End at: 2018-02-19 17:09:55

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

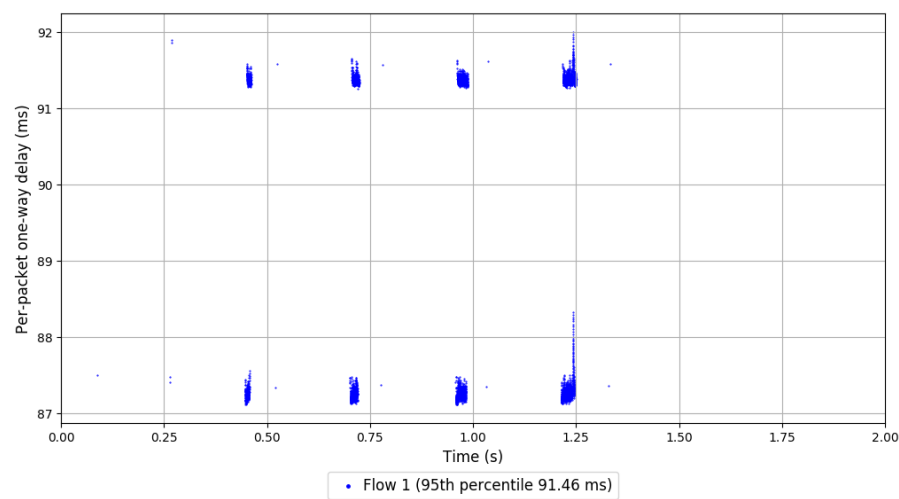
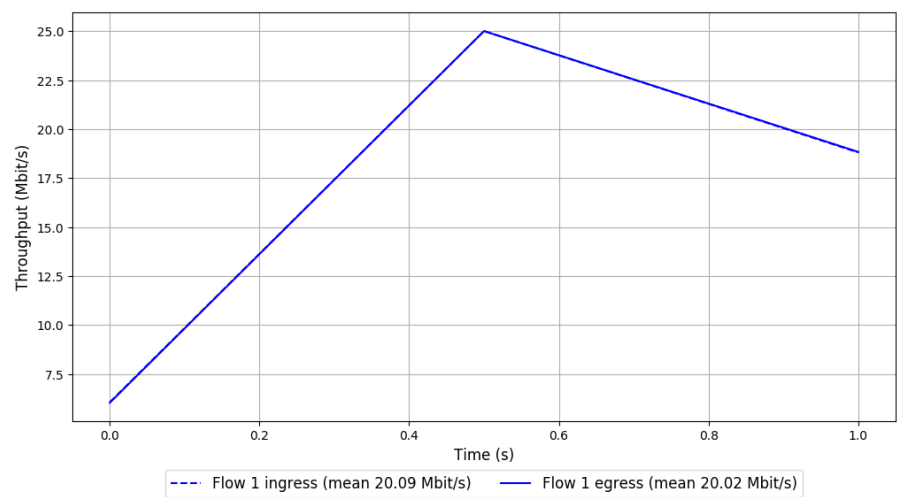


Run 3: Statistics of TaoVA-100x

Start at: 2018-02-19 17:24:15

End at: 2018-02-19 17:24:45

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

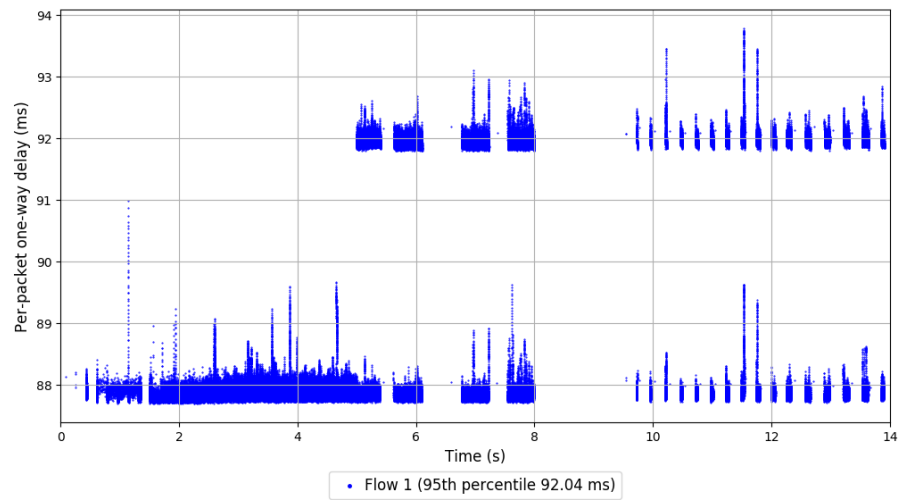
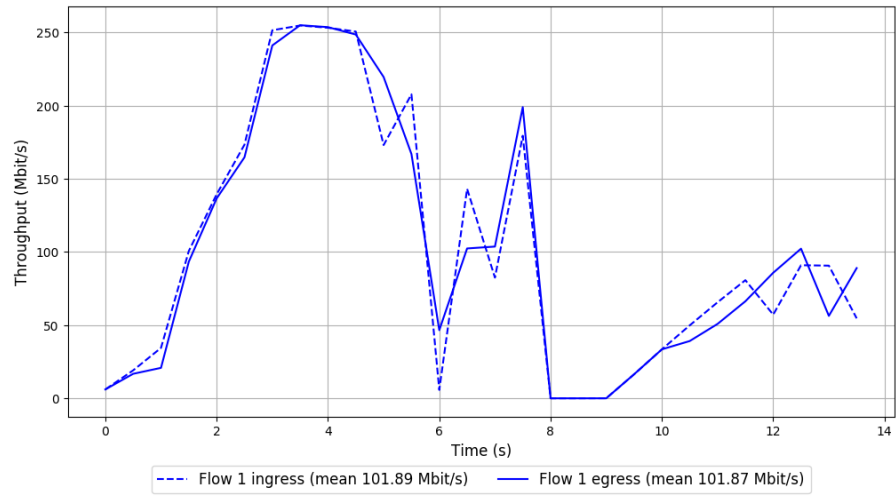


Run 4: Statistics of TaoVA-100x

Start at: 2018-02-19 17:39:15

End at: 2018-02-19 17:39:45

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-19 17:54:32

End at: 2018-02-19 17:55:02

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.19 Mbit/s

95th percentile per-packet one-way delay: 92.102 ms

Loss rate: 0.10%

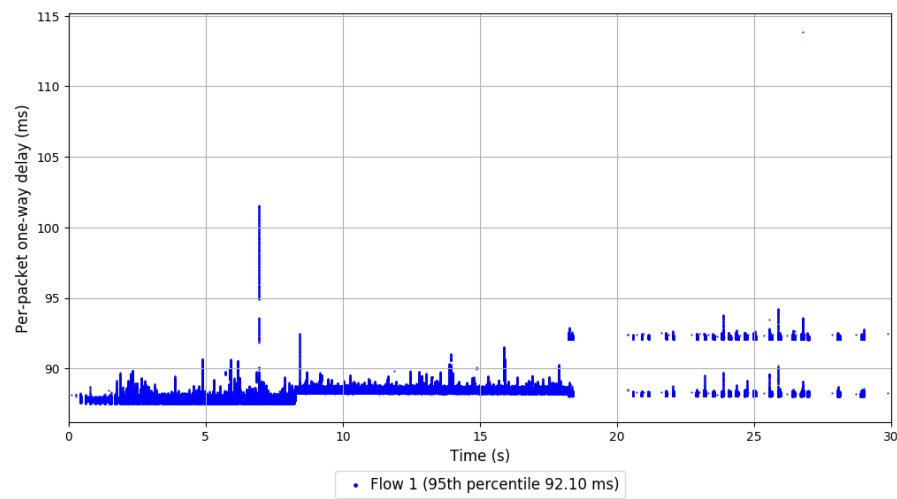
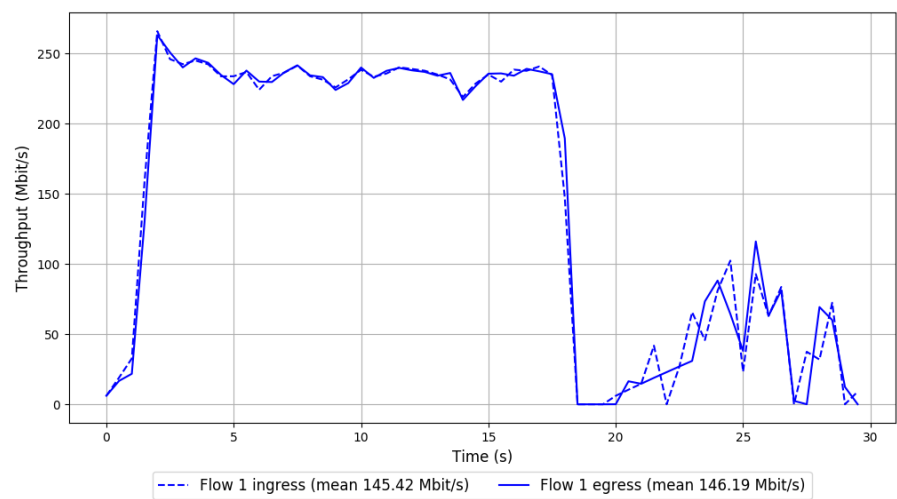
-- Flow 1:

Average throughput: 146.19 Mbit/s

95th percentile per-packet one-way delay: 92.102 ms

Loss rate: 0.10%

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

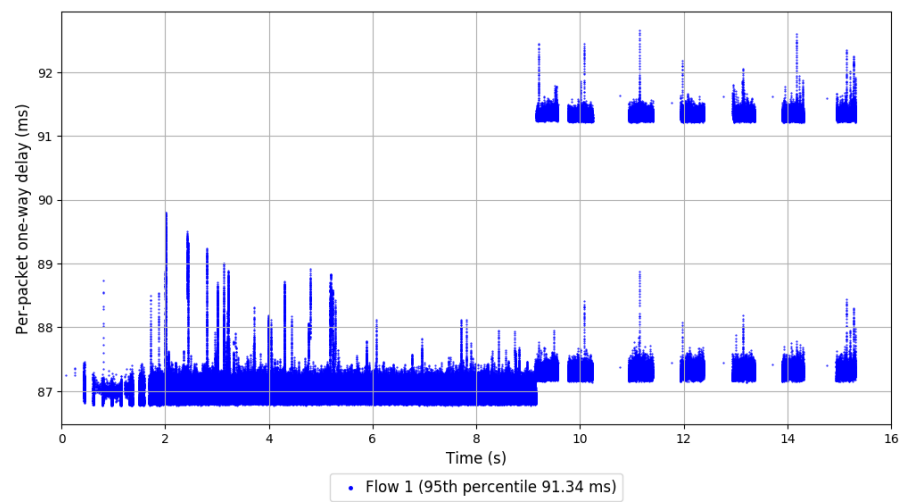
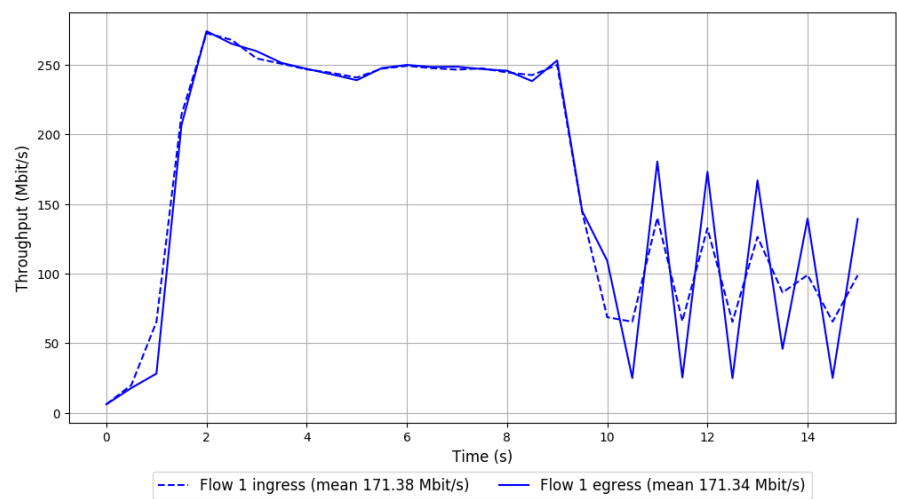


Run 6: Statistics of TaoVA-100x

Start at: 2018-02-19 18:09:51

End at: 2018-02-19 18:10:21

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-19 18:25:23

End at: 2018-02-19 18:25:53

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.25 Mbit/s

95th percentile per-packet one-way delay: 91.611 ms

Loss rate: 0.00%

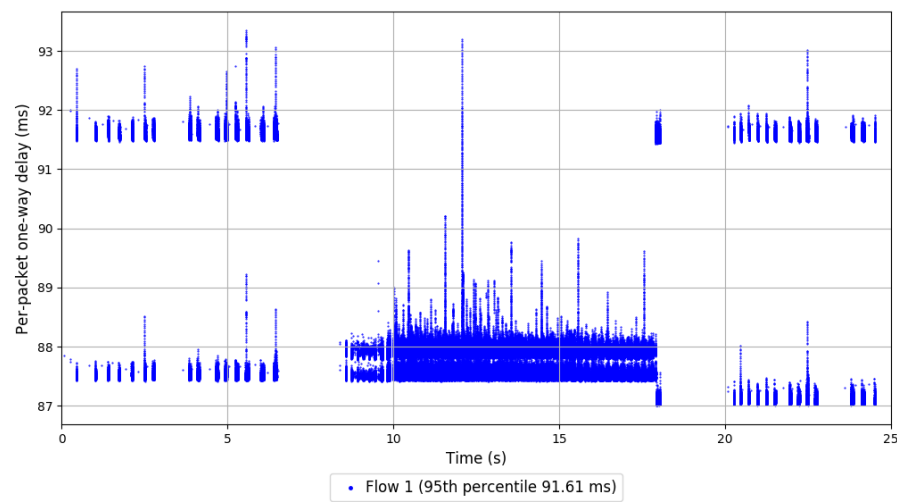
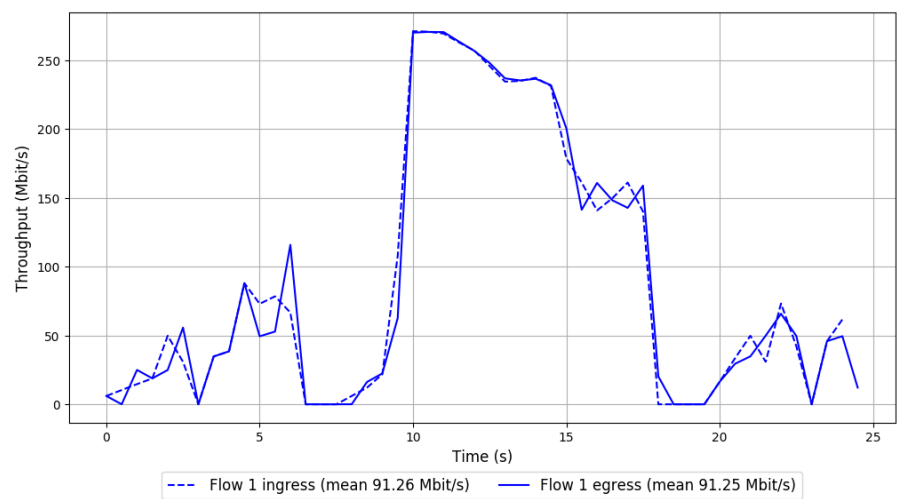
-- Flow 1:

Average throughput: 91.25 Mbit/s

95th percentile per-packet one-way delay: 91.611 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-19 18:40:46

End at: 2018-02-19 18:41:16

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.13 Mbit/s

95th percentile per-packet one-way delay: 90.655 ms

Loss rate: 0.36%

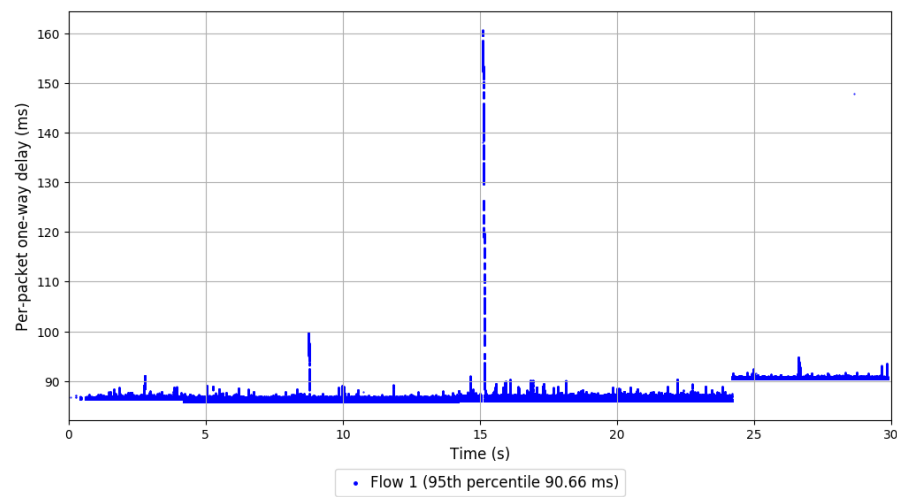
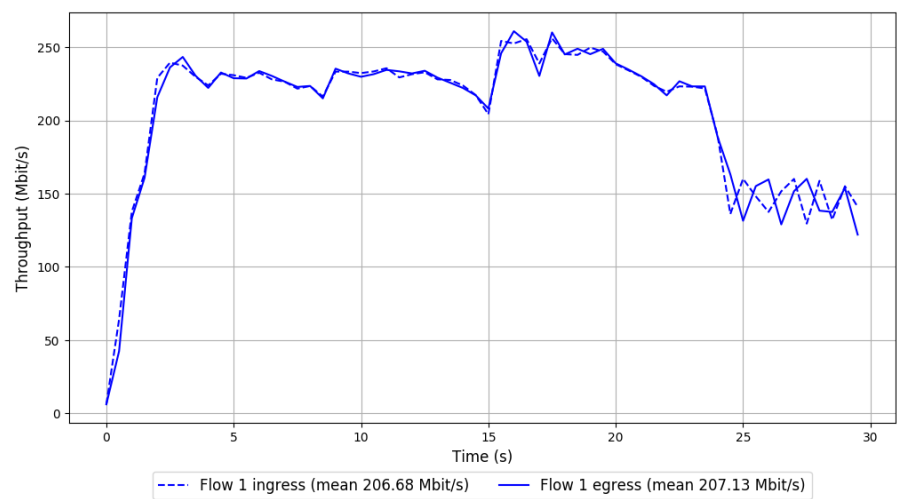
-- Flow 1:

Average throughput: 207.13 Mbit/s

95th percentile per-packet one-way delay: 90.655 ms

Loss rate: 0.36%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-19 18:56:56

End at: 2018-02-19 18:57:26

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.28 Mbit/s

95th percentile per-packet one-way delay: 87.310 ms

Loss rate: 0.40%

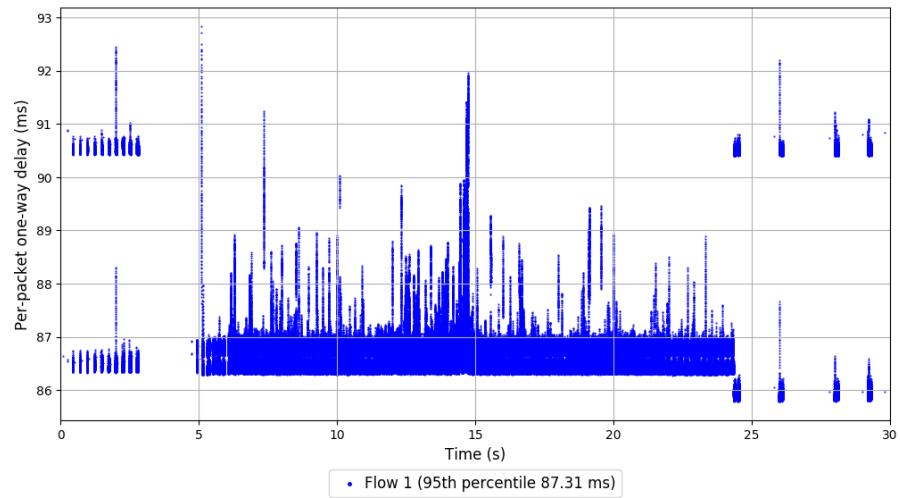
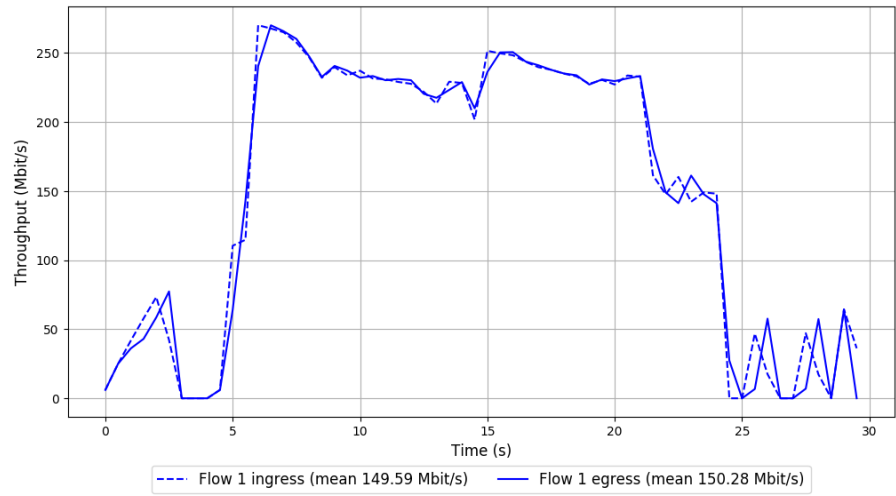
-- Flow 1:

Average throughput: 150.28 Mbit/s

95th percentile per-packet one-way delay: 87.310 ms

Loss rate: 0.40%

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

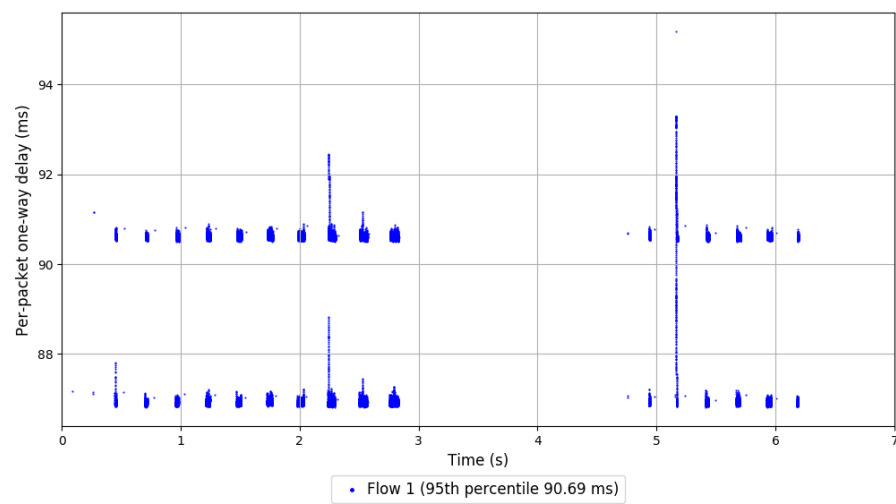
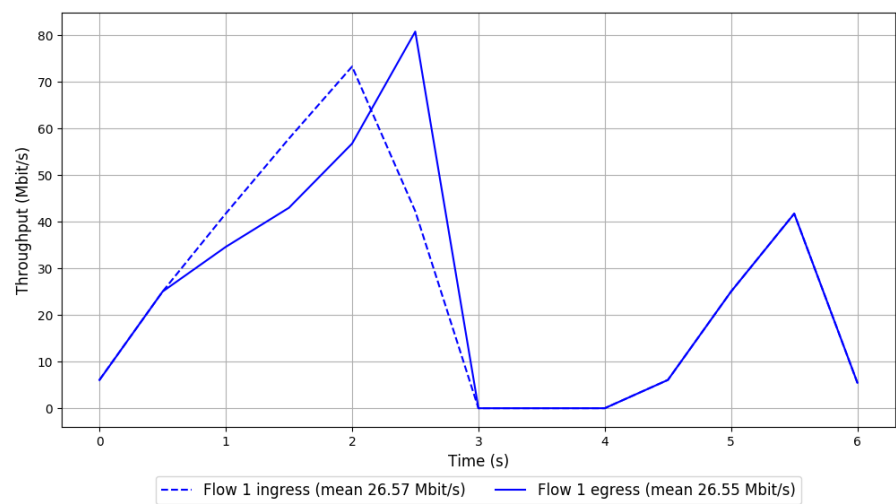


Run 10: Statistics of TaoVA-100x

Start at: 2018-02-19 19:12:14

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

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-19 16:47:34

End at: 2018-02-19 16:48:04

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.04 Mbit/s

95th percentile per-packet one-way delay: 91.583 ms

Loss rate: 0.67%

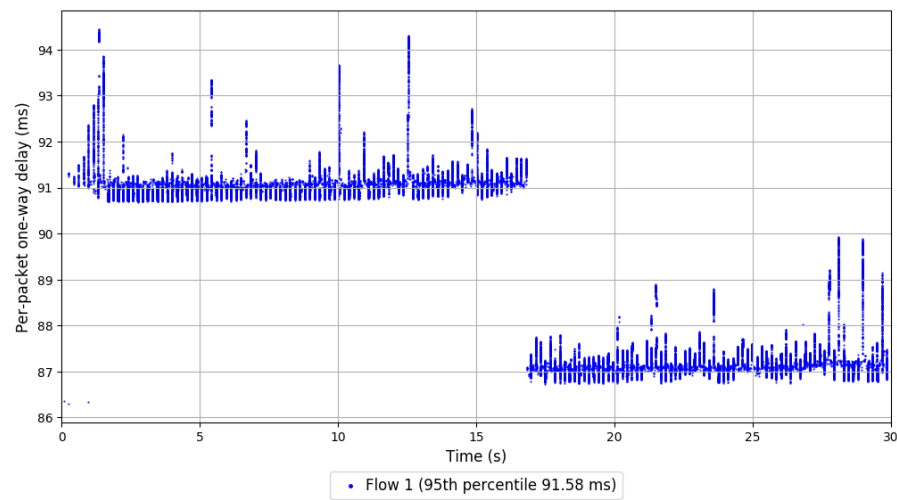
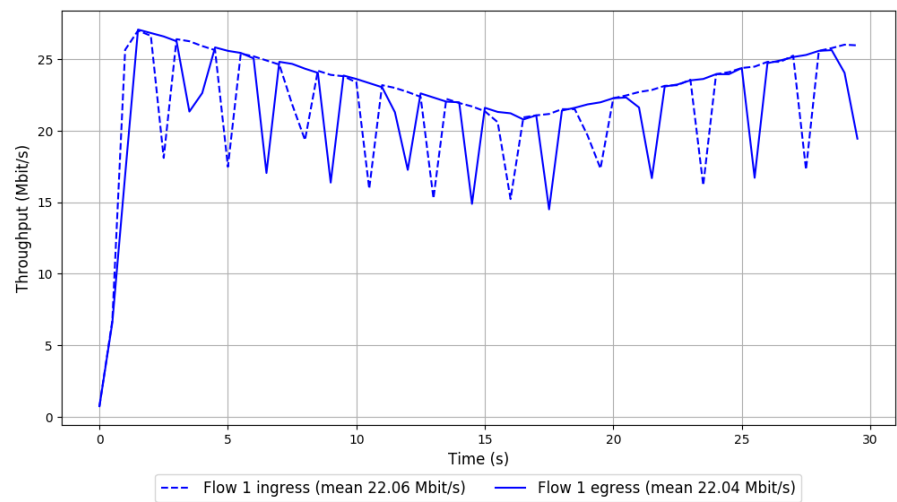
-- Flow 1:

Average throughput: 22.04 Mbit/s

95th percentile per-packet one-way delay: 91.583 ms

Loss rate: 0.67%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-19 17:02:45

End at: 2018-02-19 17:03:15

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.95 Mbit/s

95th percentile per-packet one-way delay: 91.840 ms

Loss rate: 0.69%

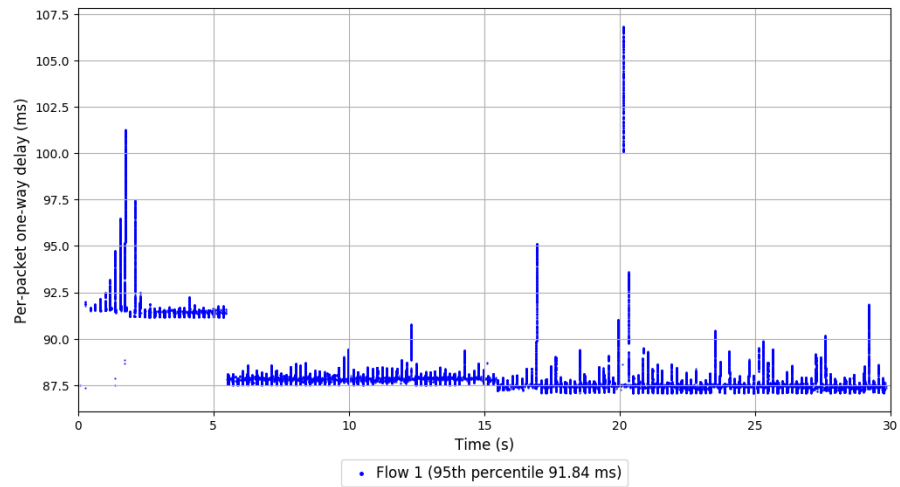
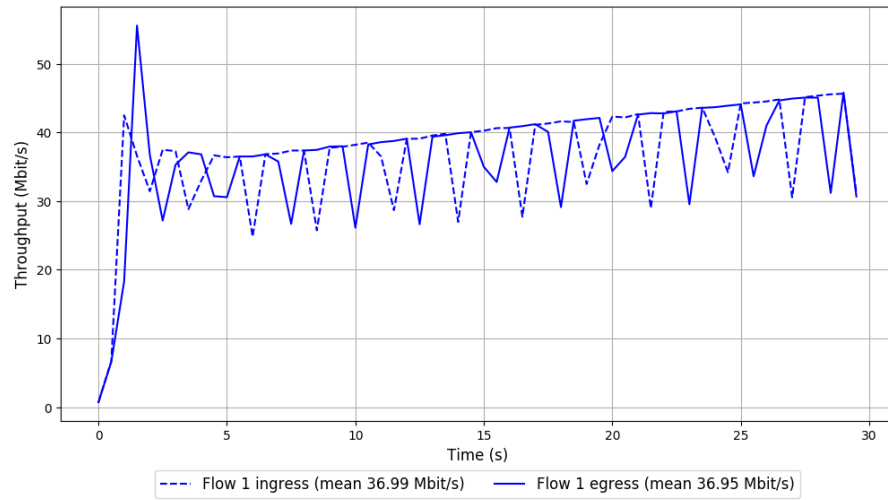
-- Flow 1:

Average throughput: 36.95 Mbit/s

95th percentile per-packet one-way delay: 91.840 ms

Loss rate: 0.69%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-19 17:17:40

End at: 2018-02-19 17:18:10

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.85 Mbit/s

95th percentile per-packet one-way delay: 95.060 ms

Loss rate: 0.61%

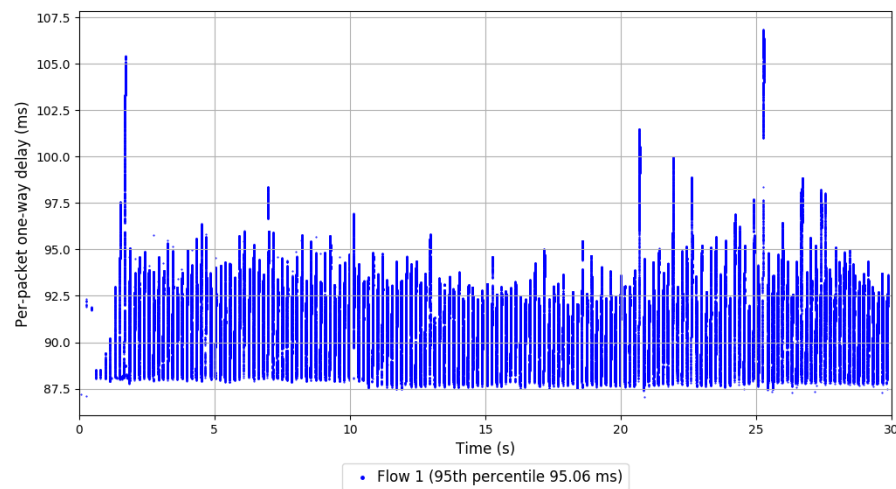
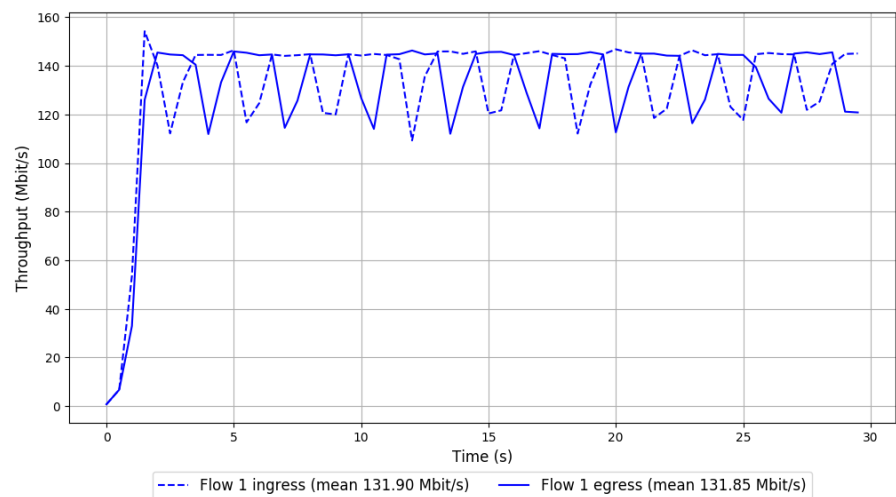
-- Flow 1:

Average throughput: 131.85 Mbit/s

95th percentile per-packet one-way delay: 95.060 ms

Loss rate: 0.61%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-19 17:32:37

End at: 2018-02-19 17:33:07

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.43 Mbit/s

95th percentile per-packet one-way delay: 94.946 ms

Loss rate: 0.64%

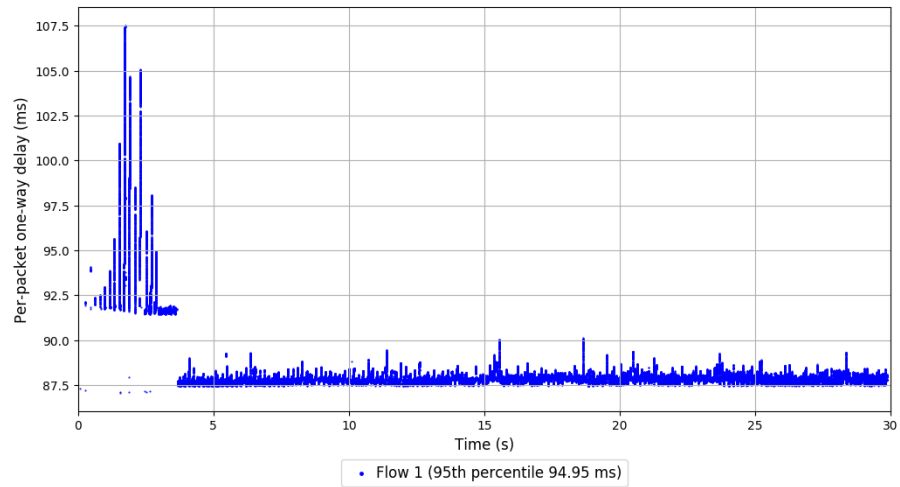
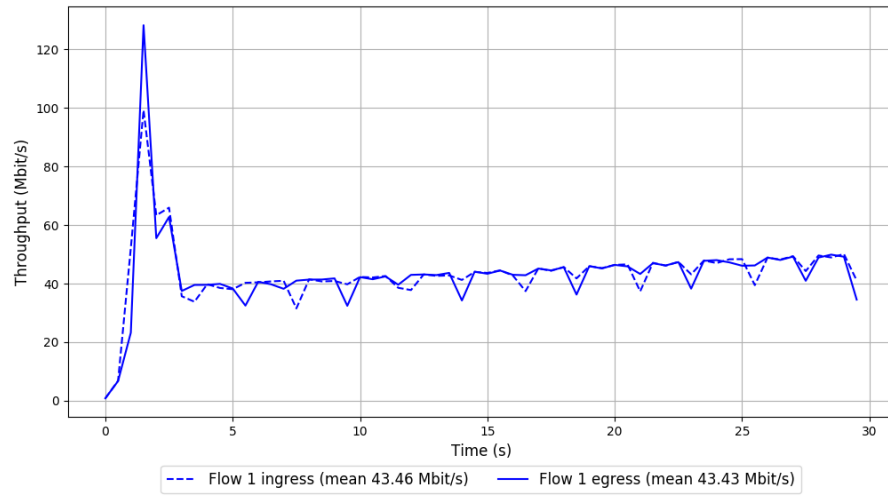
-- Flow 1:

Average throughput: 43.43 Mbit/s

95th percentile per-packet one-way delay: 94.946 ms

Loss rate: 0.64%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-19 17:47:44

End at: 2018-02-19 17:48:14

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.24 Mbit/s

95th percentile per-packet one-way delay: 96.932 ms

Loss rate: 0.60%

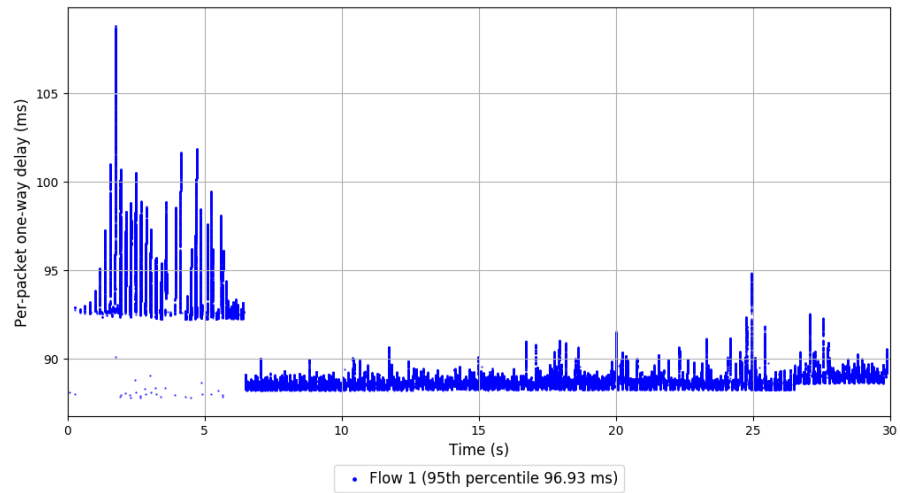
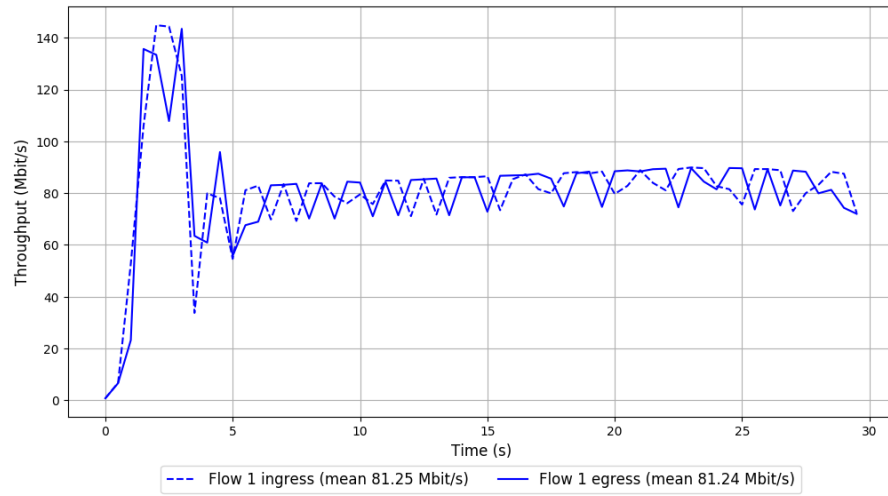
-- Flow 1:

Average throughput: 81.24 Mbit/s

95th percentile per-packet one-way delay: 96.932 ms

Loss rate: 0.60%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-19 18:03:02

End at: 2018-02-19 18:03:32

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.22 Mbit/s

95th percentile per-packet one-way delay: 93.285 ms

Loss rate: 0.59%

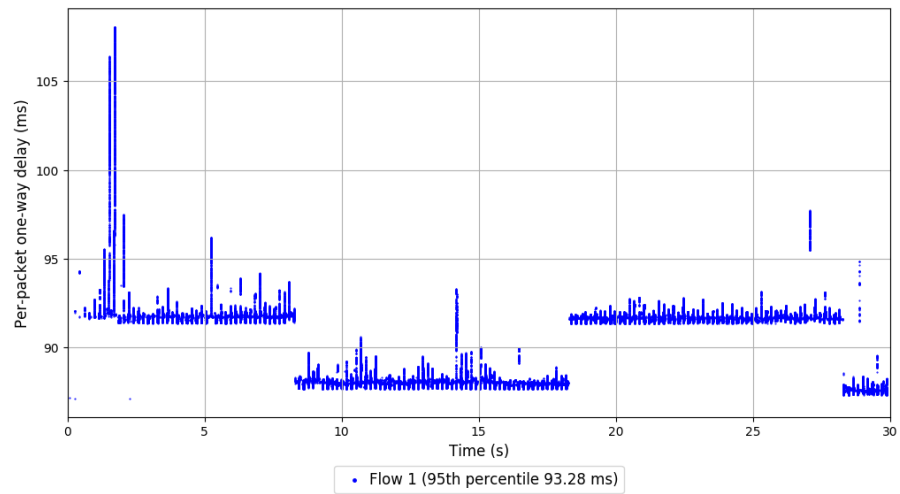
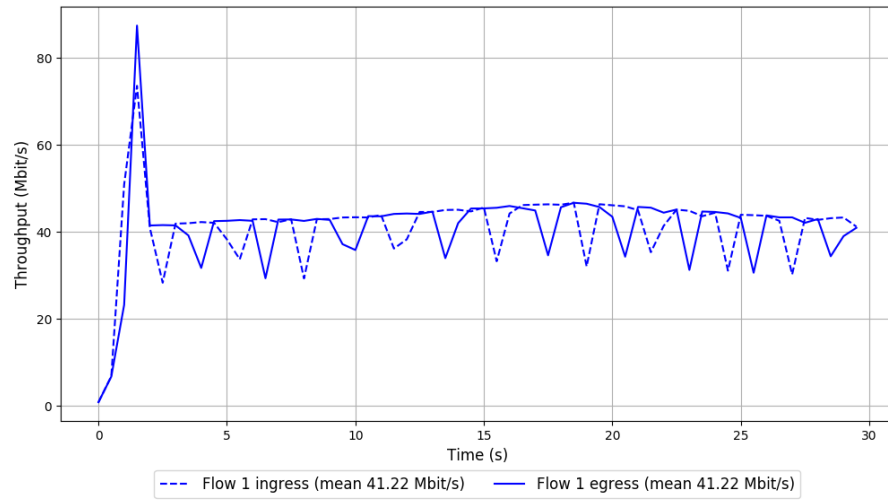
-- Flow 1:

Average throughput: 41.22 Mbit/s

95th percentile per-packet one-way delay: 93.285 ms

Loss rate: 0.59%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-19 18:18:27

End at: 2018-02-19 18:18:57

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.77 Mbit/s

95th percentile per-packet one-way delay: 92.280 ms

Loss rate: 0.61%

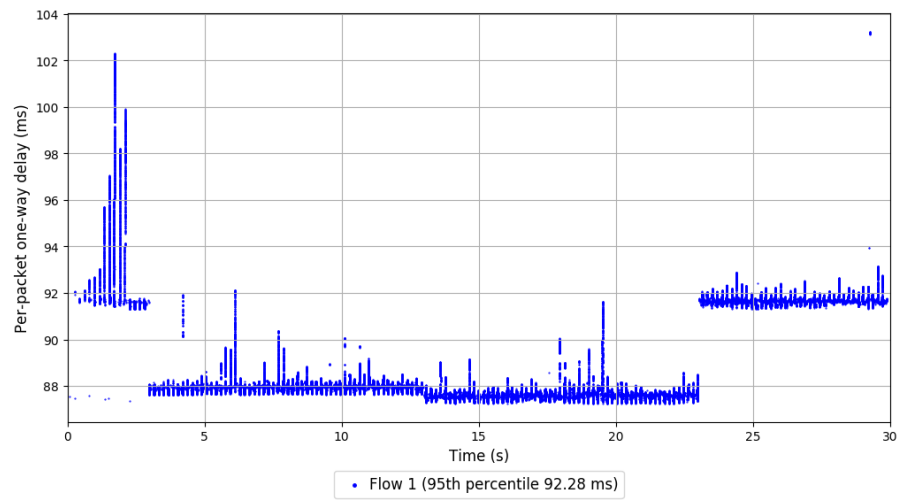
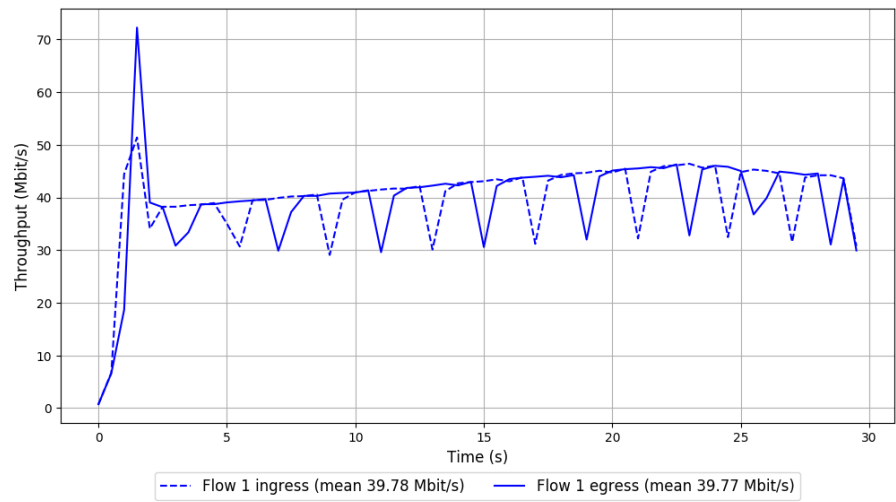
-- Flow 1:

Average throughput: 39.77 Mbit/s

95th percentile per-packet one-way delay: 92.280 ms

Loss rate: 0.61%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-19 18:33:51

End at: 2018-02-19 18:34:21

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.32 Mbit/s

95th percentile per-packet one-way delay: 92.382 ms

Loss rate: 0.65%

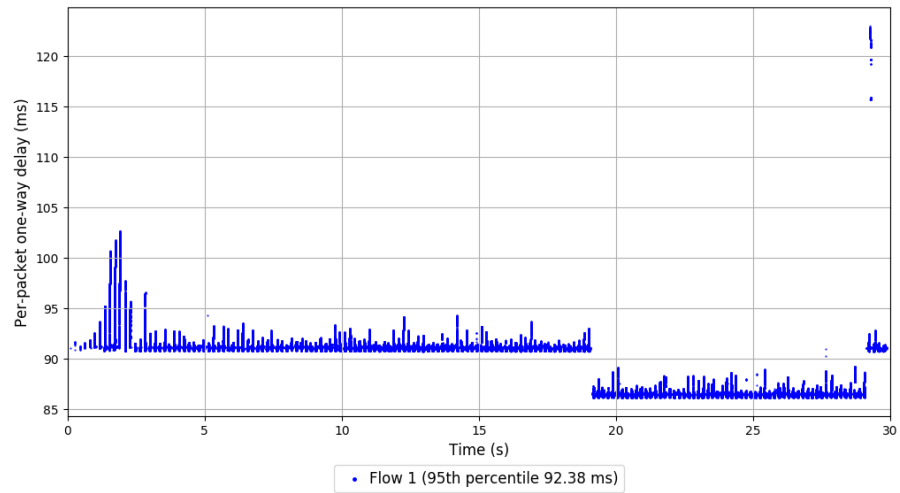
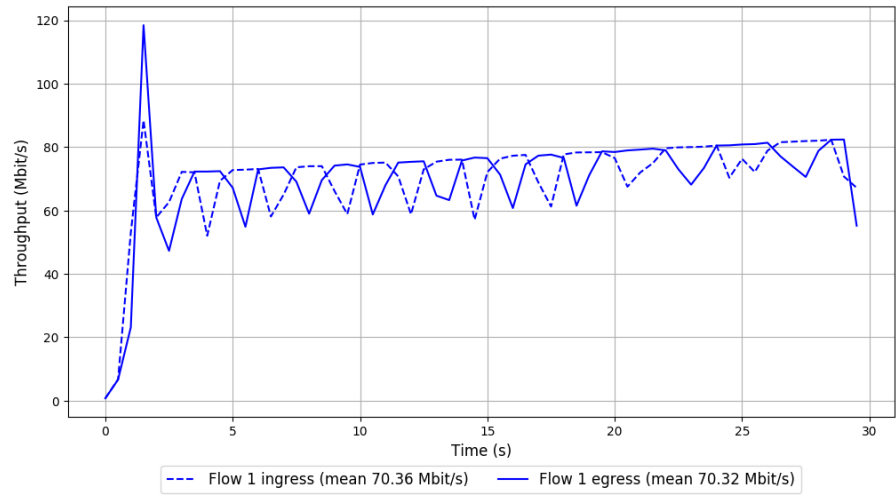
-- Flow 1:

Average throughput: 70.32 Mbit/s

95th percentile per-packet one-way delay: 92.382 ms

Loss rate: 0.65%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-19 18:49:41

End at: 2018-02-19 18:50:11

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 129.53 Mbit/s

95th percentile per-packet one-way delay: 97.529 ms

Loss rate: 0.67%

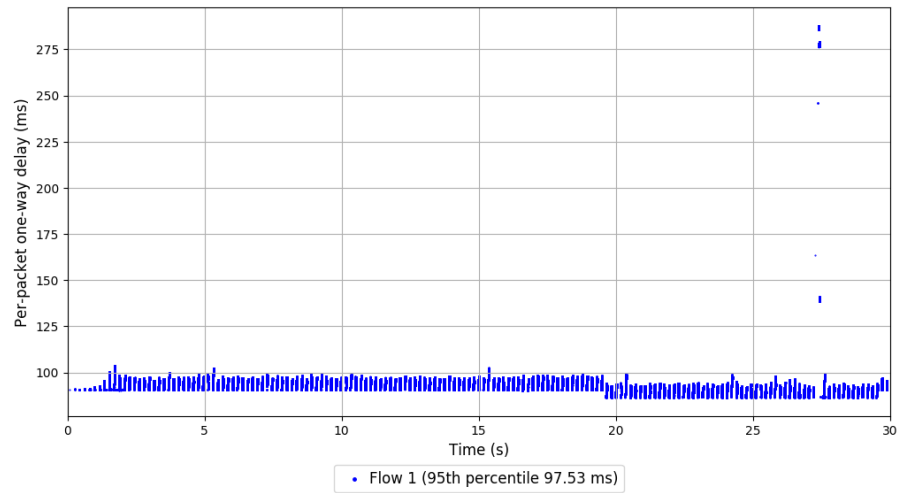
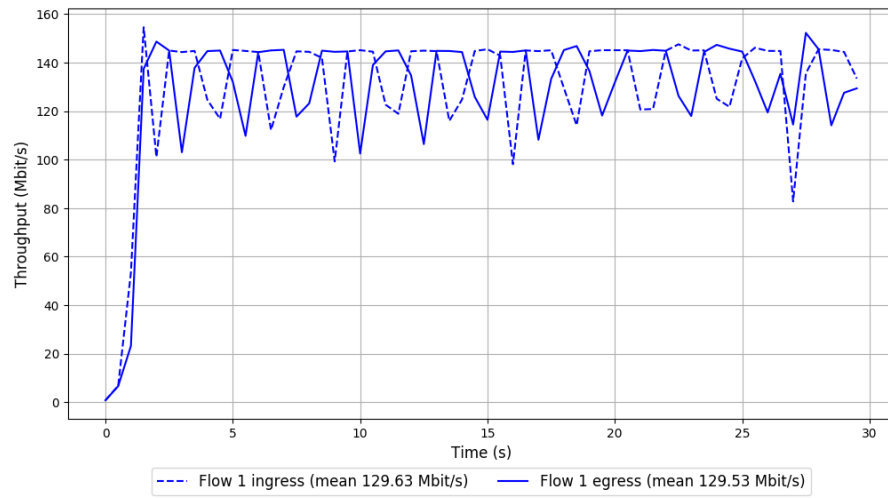
-- Flow 1:

Average throughput: 129.53 Mbit/s

95th percentile per-packet one-way delay: 97.529 ms

Loss rate: 0.67%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-19 19:05:34

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

Below is generated by plot.py at 2018-02-19 22:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.04 Mbit/s

95th percentile per-packet one-way delay: 91.882 ms

Loss rate: 0.60%

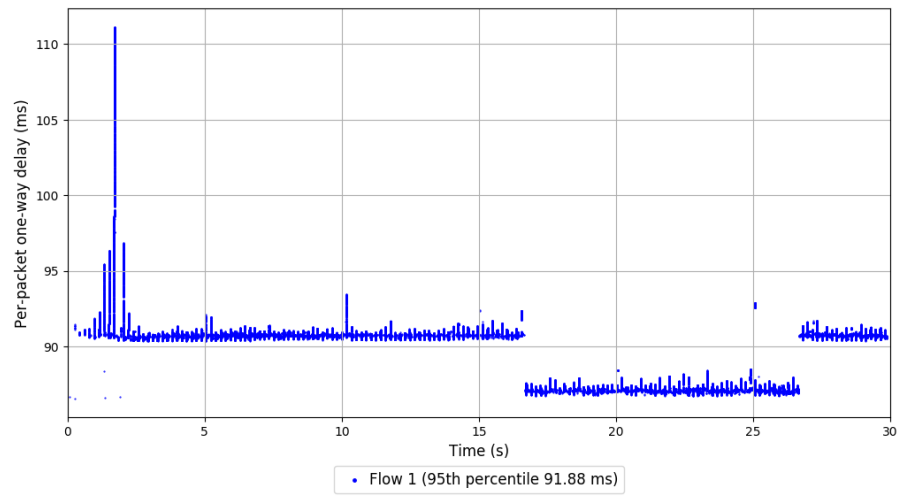
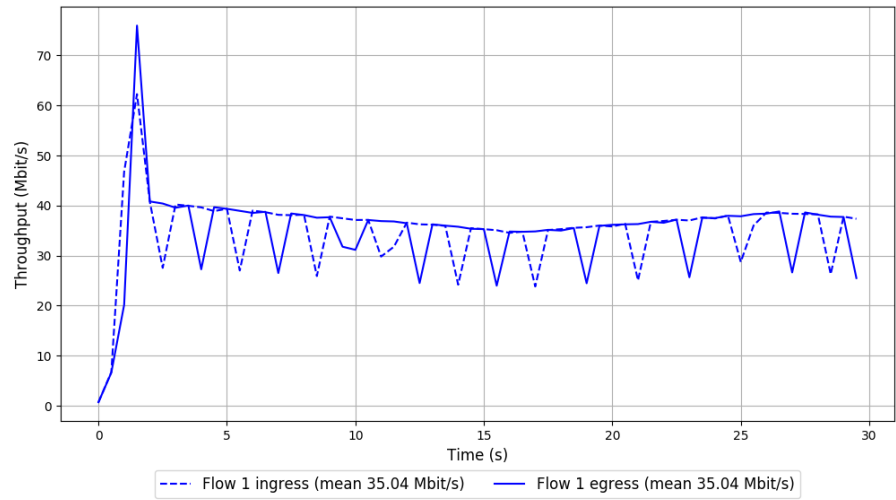
-- Flow 1:

Average throughput: 35.04 Mbit/s

95th percentile per-packet one-way delay: 91.882 ms

Loss rate: 0.60%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-02-19 16:54:56

End at: 2018-02-19 16:55:26

Below is generated by plot.py at 2018-02-19 22:29:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.71 Mbit/s

95th percentile per-packet one-way delay: 112.397 ms

Loss rate: 0.06%

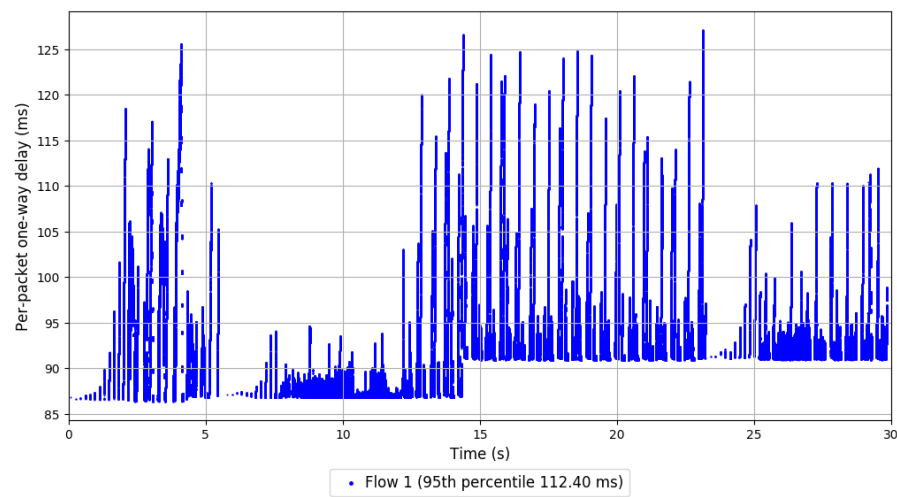
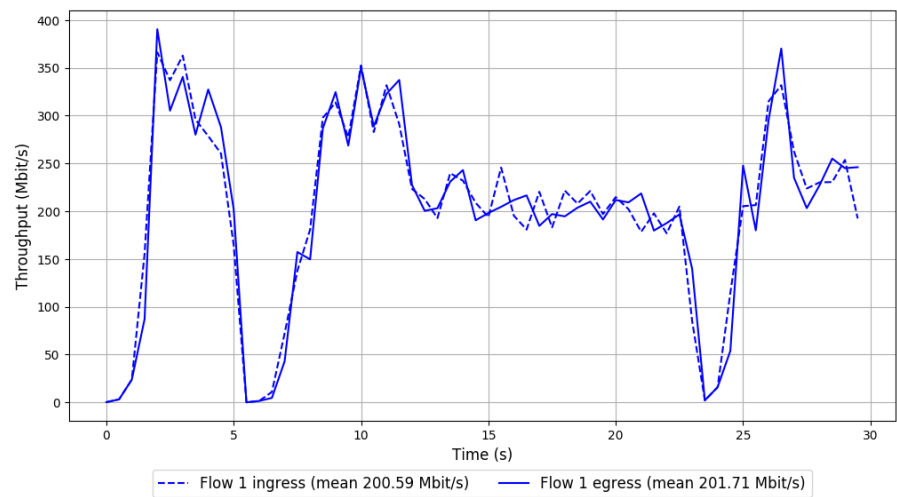
-- Flow 1:

Average throughput: 201.71 Mbit/s

95th percentile per-packet one-way delay: 112.397 ms

Loss rate: 0.06%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-19 17:10:06

End at: 2018-02-19 17:10:36

Below is generated by plot.py at 2018-02-19 22:29:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 128.91 Mbit/s

95th percentile per-packet one-way delay: 211.776 ms

Loss rate: 4.28%

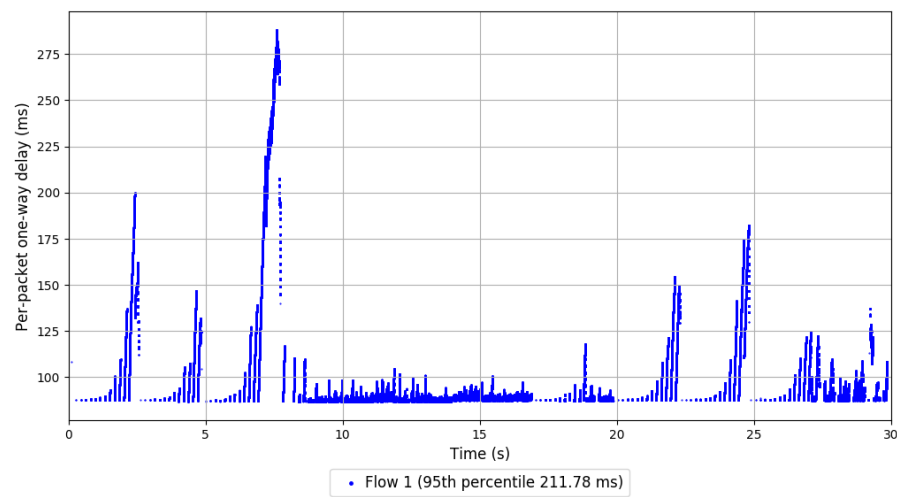
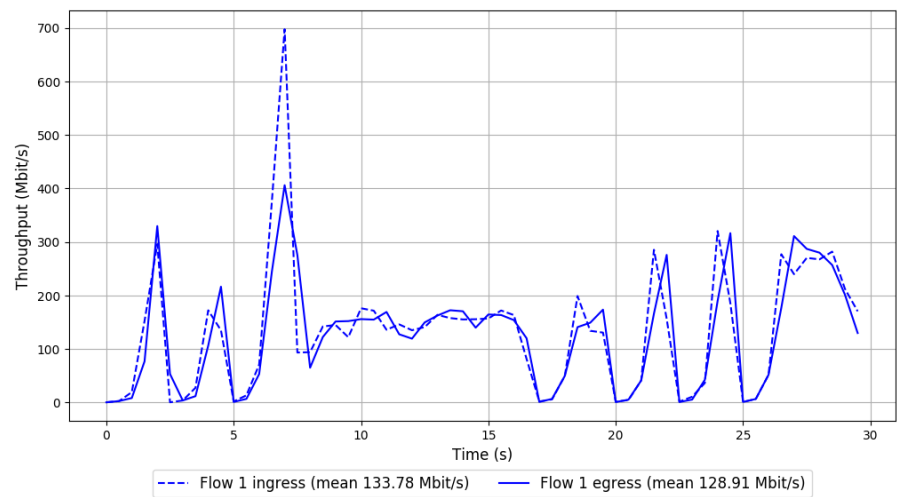
-- Flow 1:

Average throughput: 128.91 Mbit/s

95th percentile per-packet one-way delay: 211.776 ms

Loss rate: 4.28%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-19 17:24:54

End at: 2018-02-19 17:25:24

Below is generated by plot.py at 2018-02-19 22:29:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.95 Mbit/s

95th percentile per-packet one-way delay: 128.312 ms

Loss rate: 0.72%

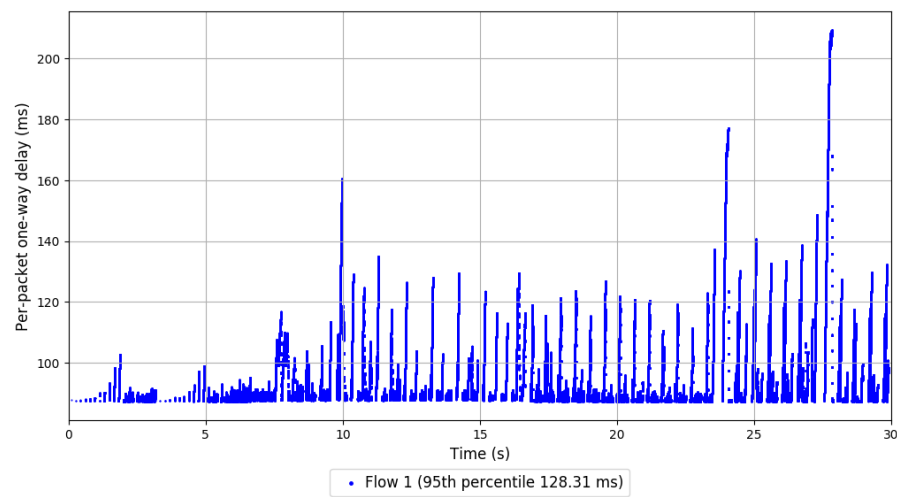
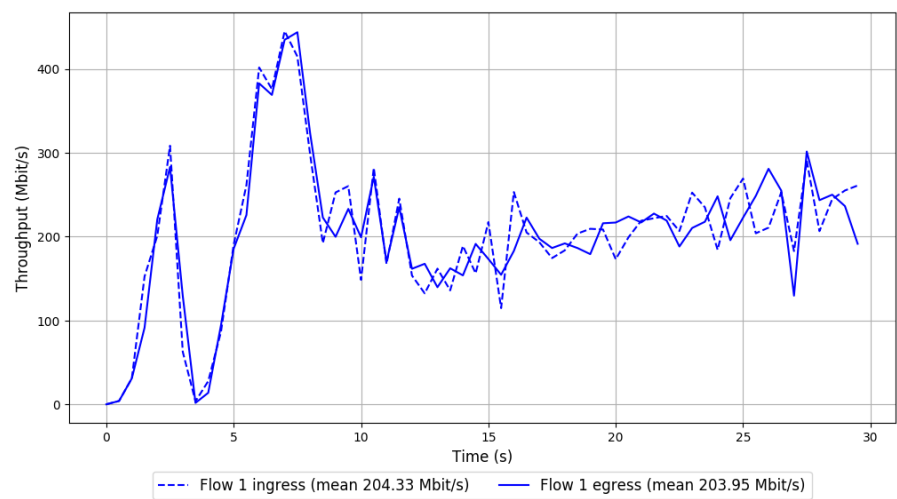
-- Flow 1:

Average throughput: 203.95 Mbit/s

95th percentile per-packet one-way delay: 128.312 ms

Loss rate: 0.72%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-19 17:39:58

End at: 2018-02-19 17:40:28

Below is generated by plot.py at 2018-02-19 22:29:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.63 Mbit/s

95th percentile per-packet one-way delay: 179.057 ms

Loss rate: 1.53%

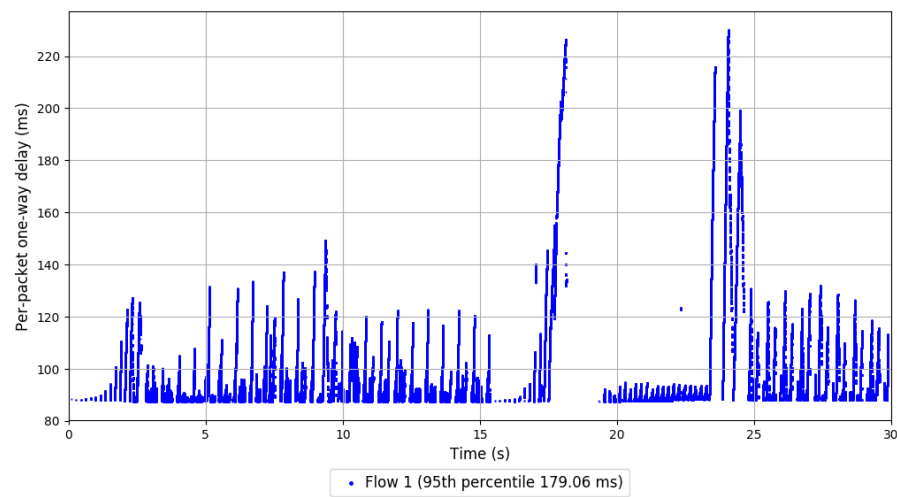
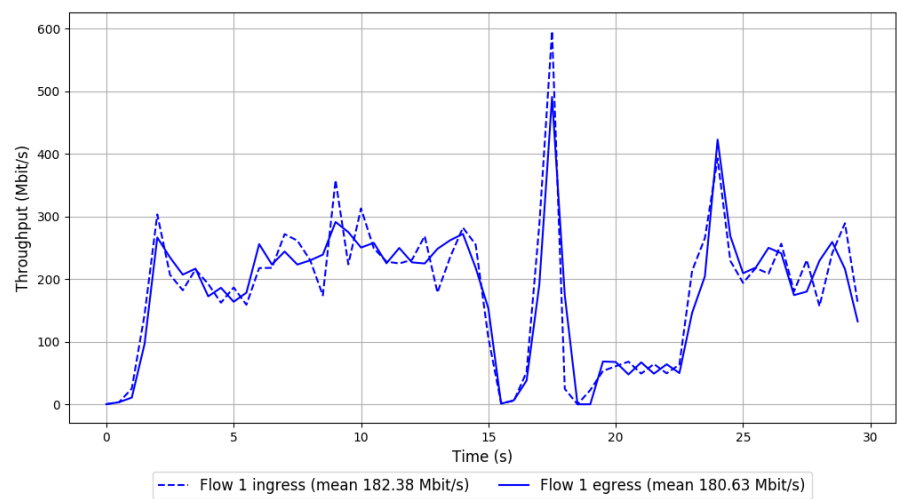
-- Flow 1:

Average throughput: 180.63 Mbit/s

95th percentile per-packet one-way delay: 179.057 ms

Loss rate: 1.53%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-19 17:55:25

End at: 2018-02-19 17:55:55

Below is generated by plot.py at 2018-02-19 22:29:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.35 Mbit/s

95th percentile per-packet one-way delay: 151.471 ms

Loss rate: 0.17%

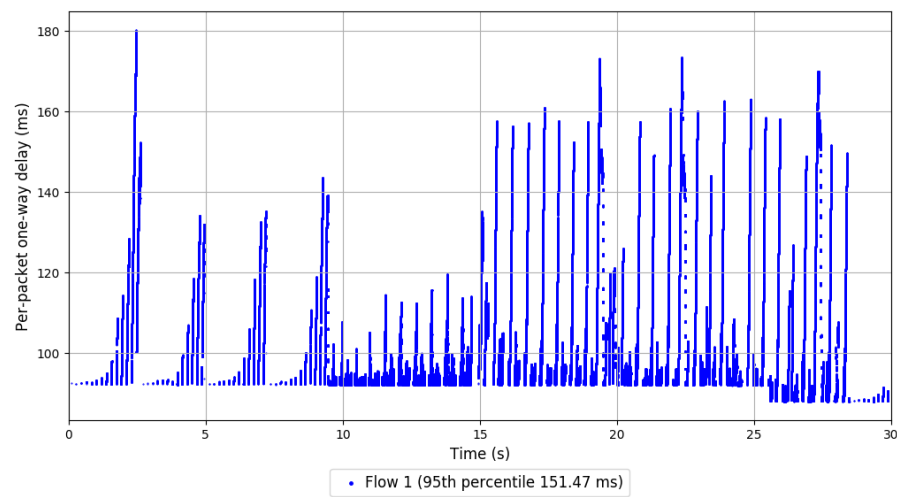
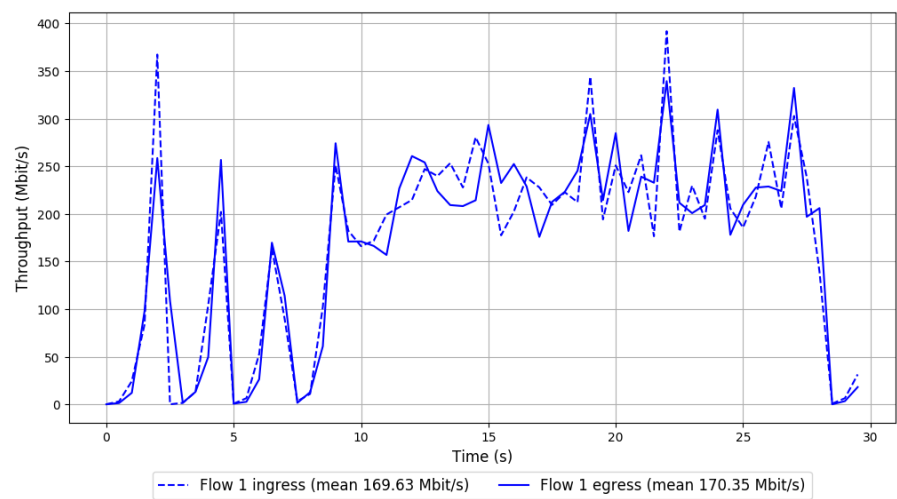
-- Flow 1:

Average throughput: 170.35 Mbit/s

95th percentile per-packet one-way delay: 151.471 ms

Loss rate: 0.17%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-19 18:10:38

End at: 2018-02-19 18:11:08

Below is generated by plot.py at 2018-02-19 22:31:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 262.16 Mbit/s

95th percentile per-packet one-way delay: 155.303 ms

Loss rate: 1.28%

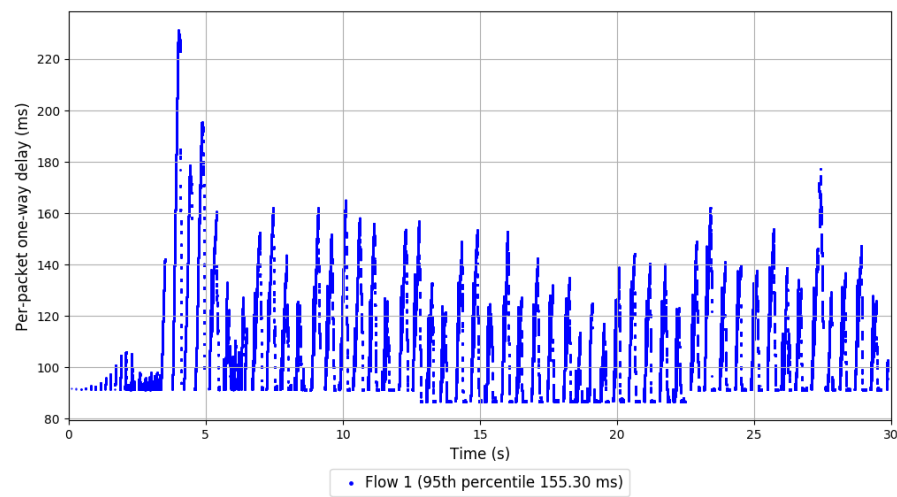
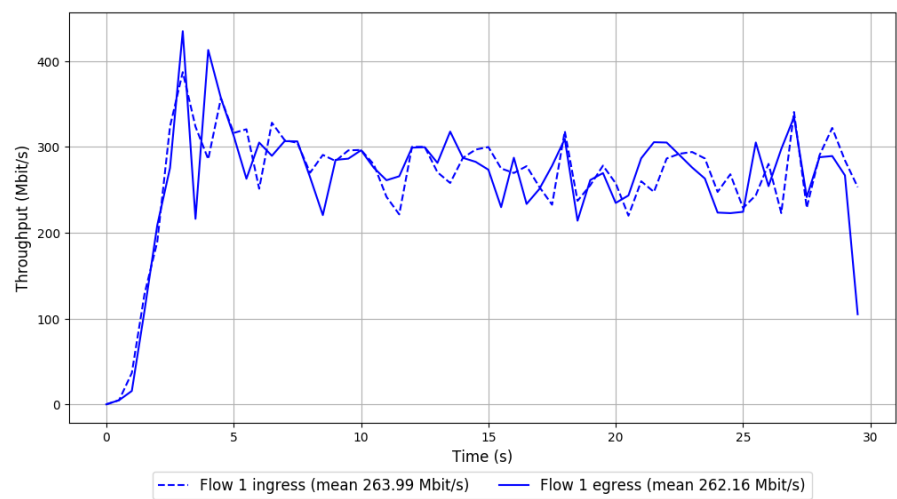
-- Flow 1:

Average throughput: 262.16 Mbit/s

95th percentile per-packet one-way delay: 155.303 ms

Loss rate: 1.28%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-19 18:26:08

End at: 2018-02-19 18:26:38

Below is generated by plot.py at 2018-02-19 22:31:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.20 Mbit/s

95th percentile per-packet one-way delay: 143.319 ms

Loss rate: 0.34%

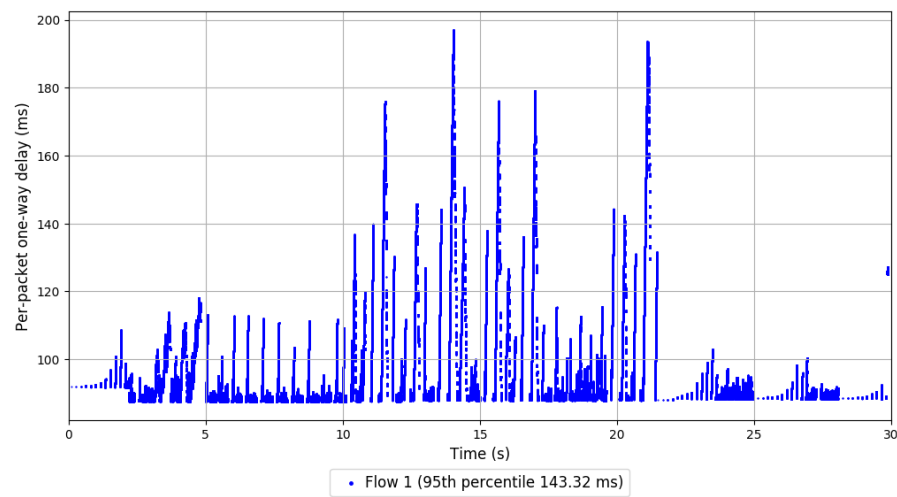
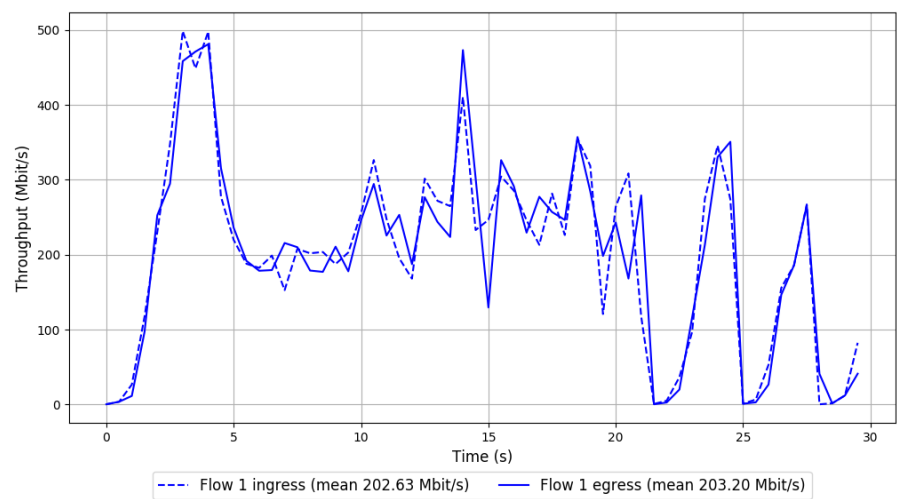
-- Flow 1:

Average throughput: 203.20 Mbit/s

95th percentile per-packet one-way delay: 143.319 ms

Loss rate: 0.34%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-19 18:41:44

End at: 2018-02-19 18:42:14

Below is generated by plot.py at 2018-02-19 22:32:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 263.89 Mbit/s

95th percentile per-packet one-way delay: 280.978 ms

Loss rate: 10.72%

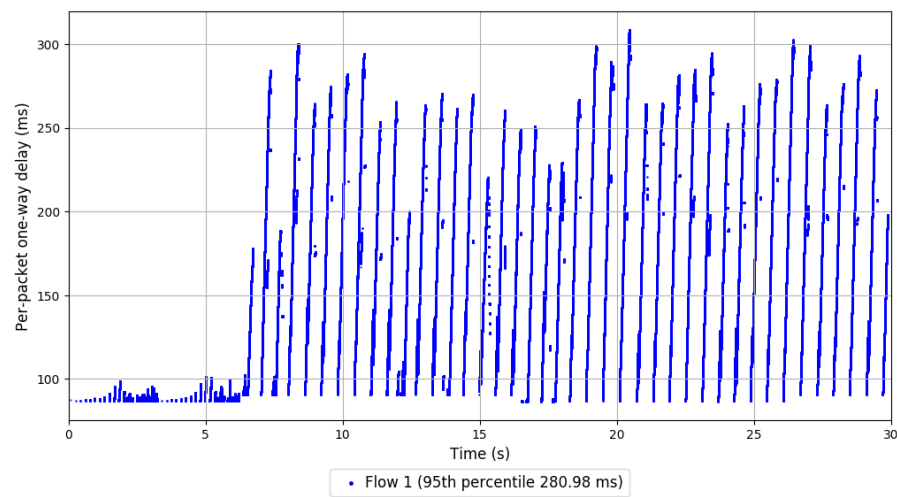
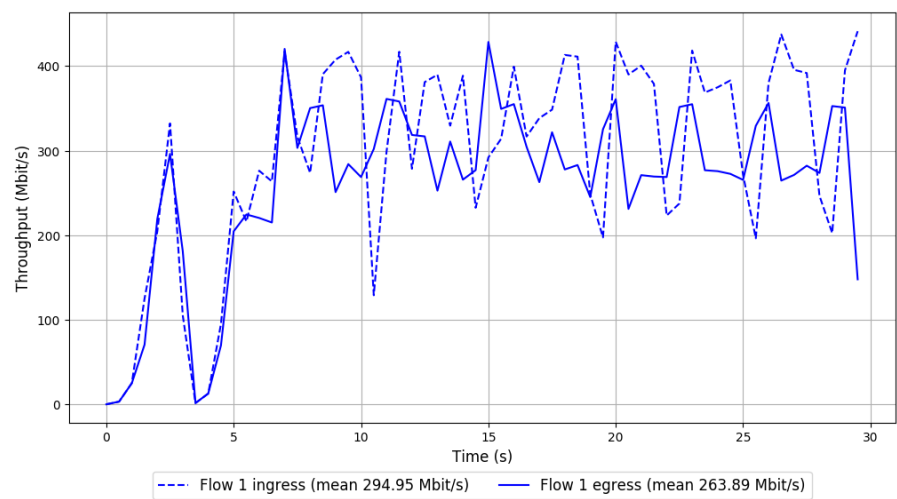
-- Flow 1:

Average throughput: 263.89 Mbit/s

95th percentile per-packet one-way delay: 280.978 ms

Loss rate: 10.72%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-19 18:57:49

End at: 2018-02-19 18:58:19

Below is generated by plot.py at 2018-02-19 22:32:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.14 Mbit/s

95th percentile per-packet one-way delay: 110.726 ms

Loss rate: 0.46%

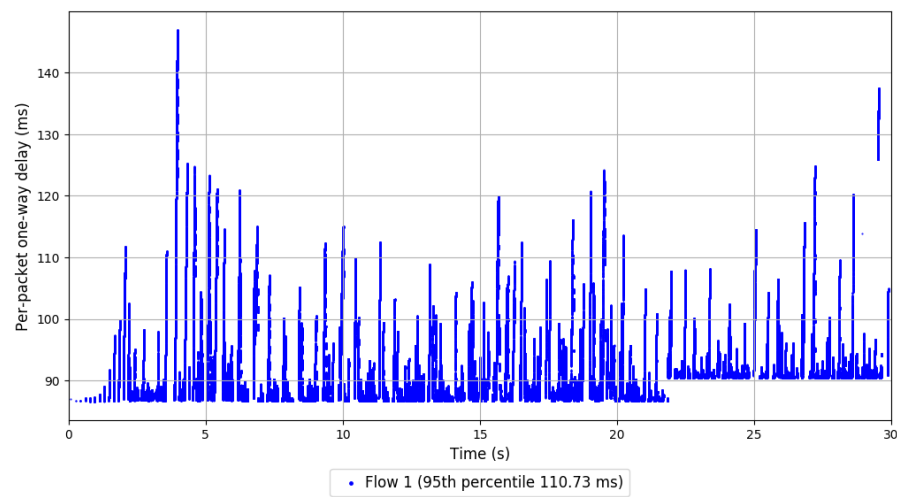
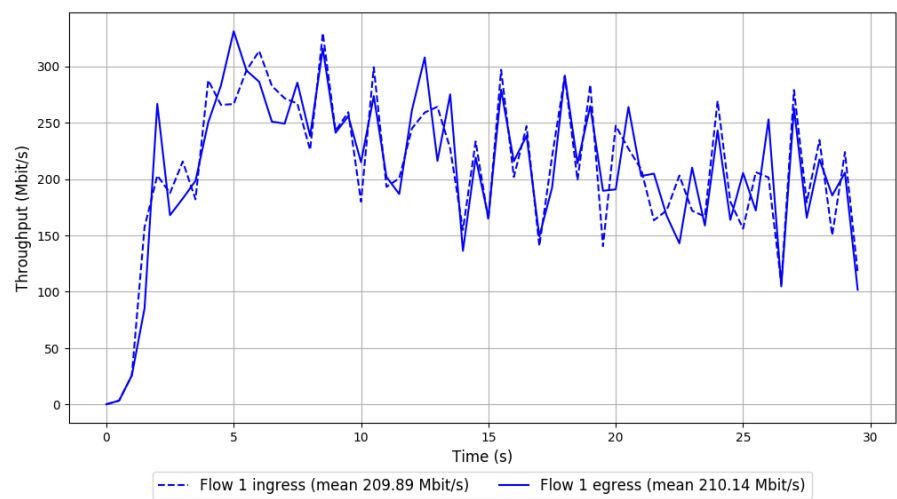
-- Flow 1:

Average throughput: 210.14 Mbit/s

95th percentile per-packet one-way delay: 110.726 ms

Loss rate: 0.46%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

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

End at: 2018-02-19 19:13:24

Below is generated by plot.py at 2018-02-19 22:32:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.00 Mbit/s

95th percentile per-packet one-way delay: 120.491 ms

Loss rate: 1.27%

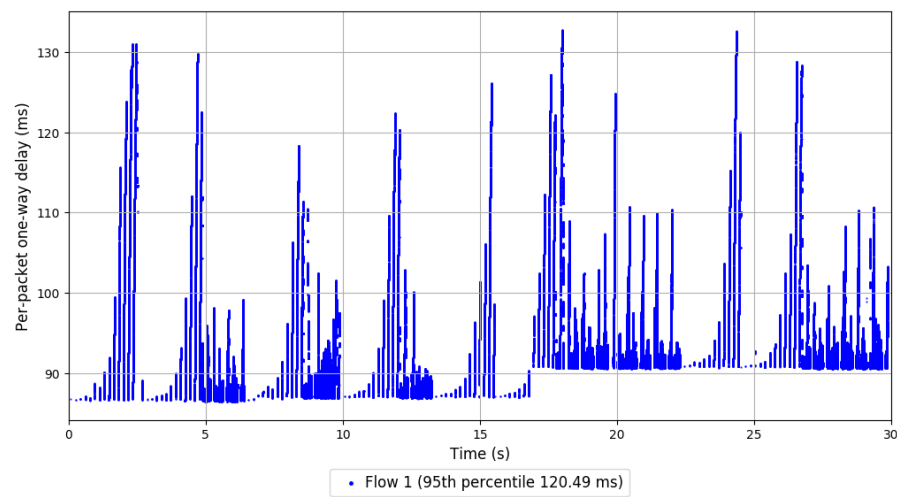
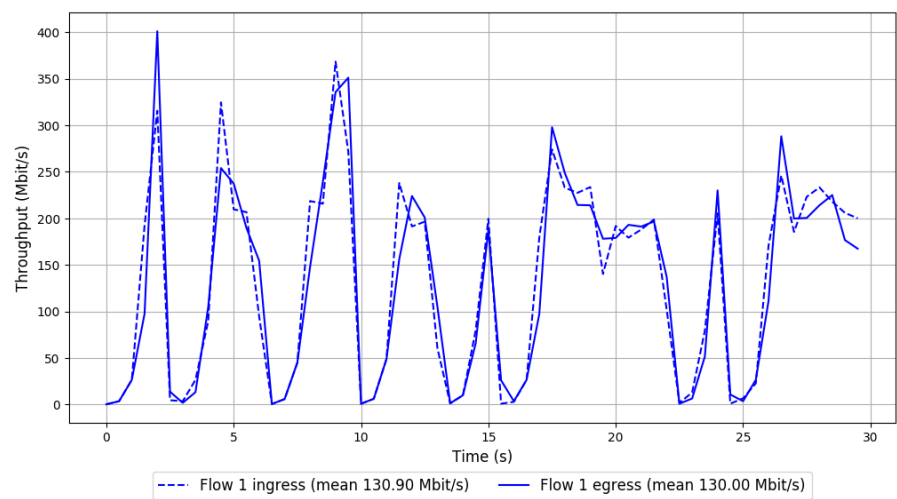
-- Flow 1:

Average throughput: 130.00 Mbit/s

95th percentile per-packet one-way delay: 120.491 ms

Loss rate: 1.27%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-02-19 16:48:56

End at: 2018-02-19 16:49:26

Below is generated by plot.py at 2018-02-19 22:32:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.33 Mbit/s

95th percentile per-packet one-way delay: 87.612 ms

Loss rate: 0.35%

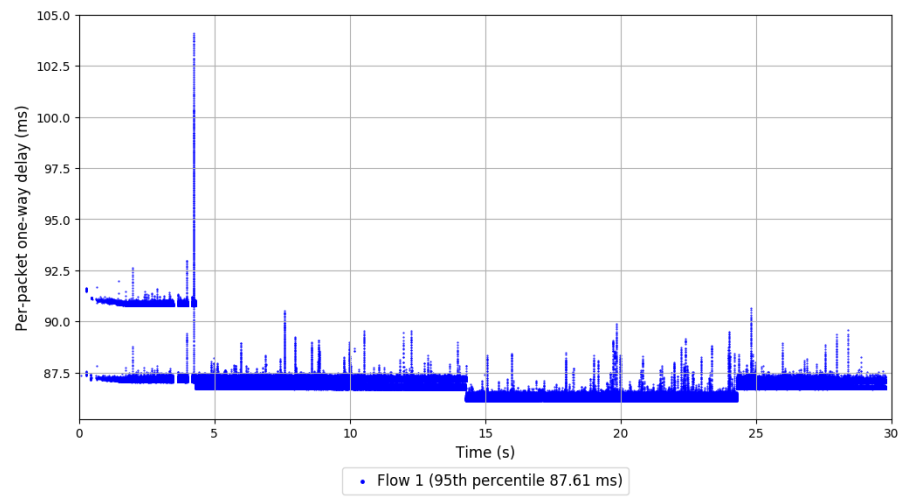
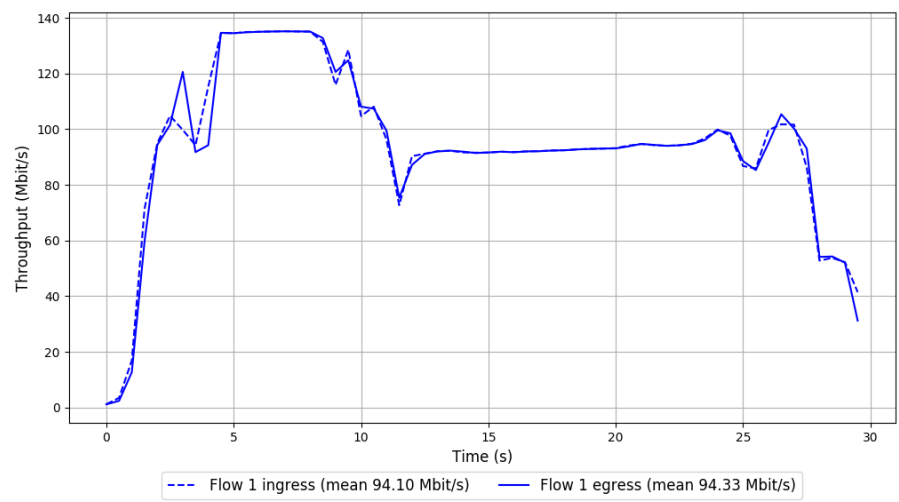
-- Flow 1:

Average throughput: 94.33 Mbit/s

95th percentile per-packet one-way delay: 87.612 ms

Loss rate: 0.35%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-19 17:04:09

End at: 2018-02-19 17:04:39

Below is generated by plot.py at 2018-02-19 22:32:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.70 Mbit/s

95th percentile per-packet one-way delay: 91.146 ms

Loss rate: 1.16%

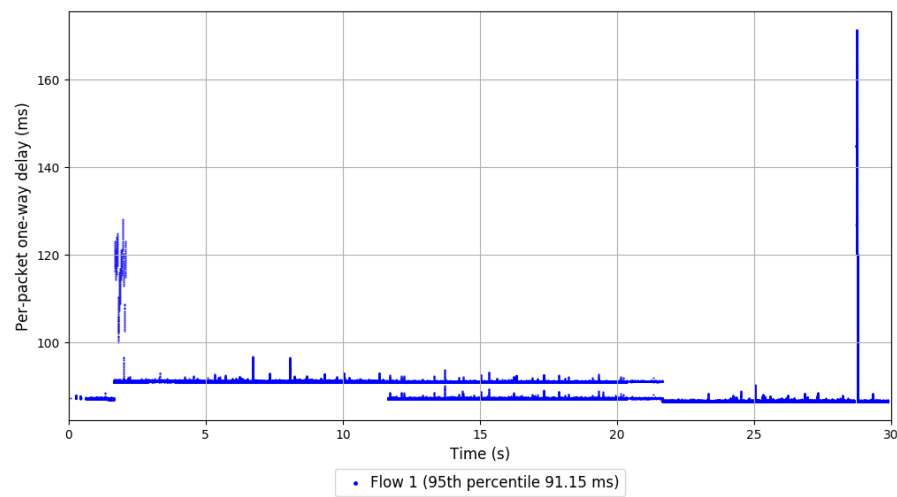
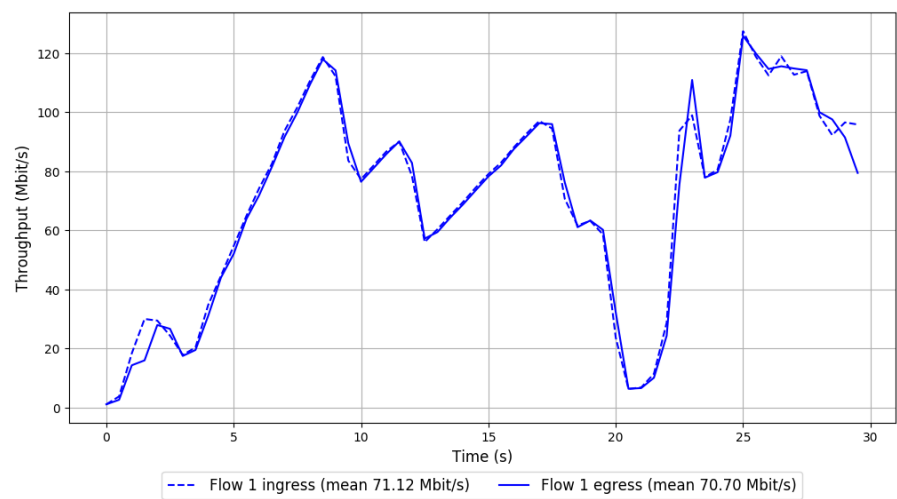
-- Flow 1:

Average throughput: 70.70 Mbit/s

95th percentile per-packet one-way delay: 91.146 ms

Loss rate: 1.16%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-19 17:19:08

End at: 2018-02-19 17:19:38

Below is generated by plot.py at 2018-02-19 22:32:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.98 Mbit/s

95th percentile per-packet one-way delay: 87.510 ms

Loss rate: 0.58%

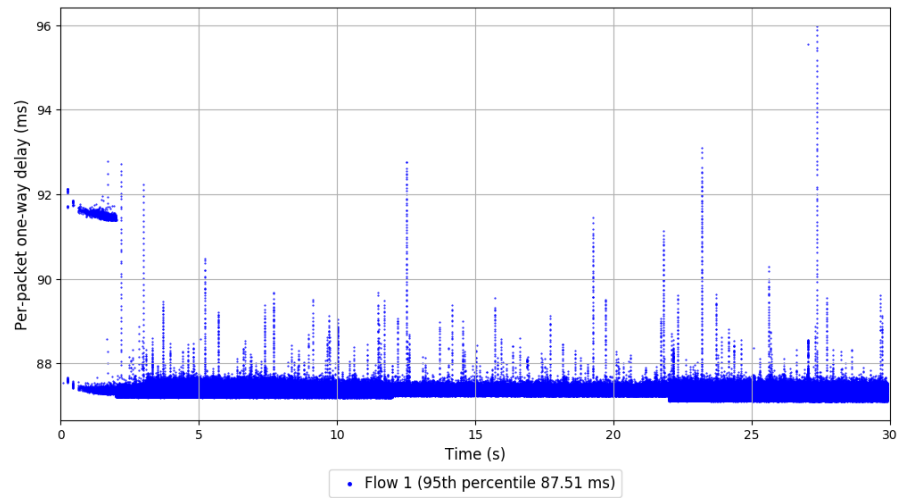
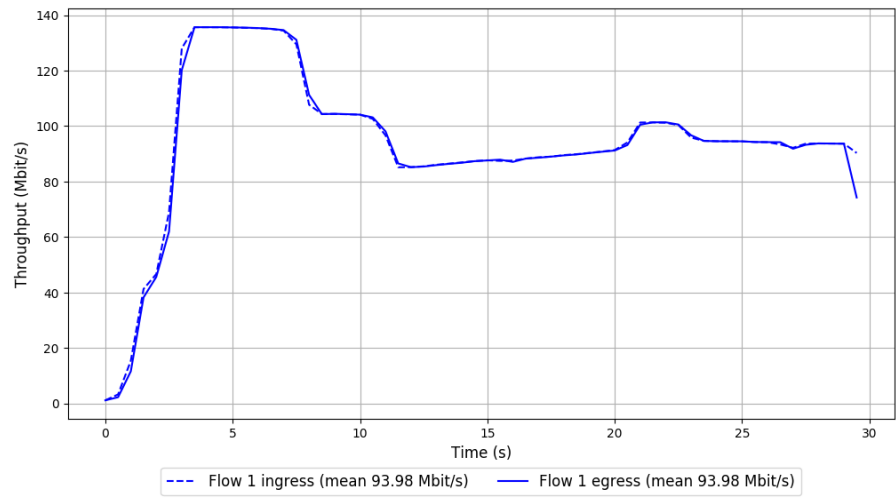
-- Flow 1:

Average throughput: 93.98 Mbit/s

95th percentile per-packet one-way delay: 87.510 ms

Loss rate: 0.58%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-19 17:34:01

End at: 2018-02-19 17:34:31

Below is generated by plot.py at 2018-02-19 22:33:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.47 Mbit/s

95th percentile per-packet one-way delay: 91.647 ms

Loss rate: 0.13%

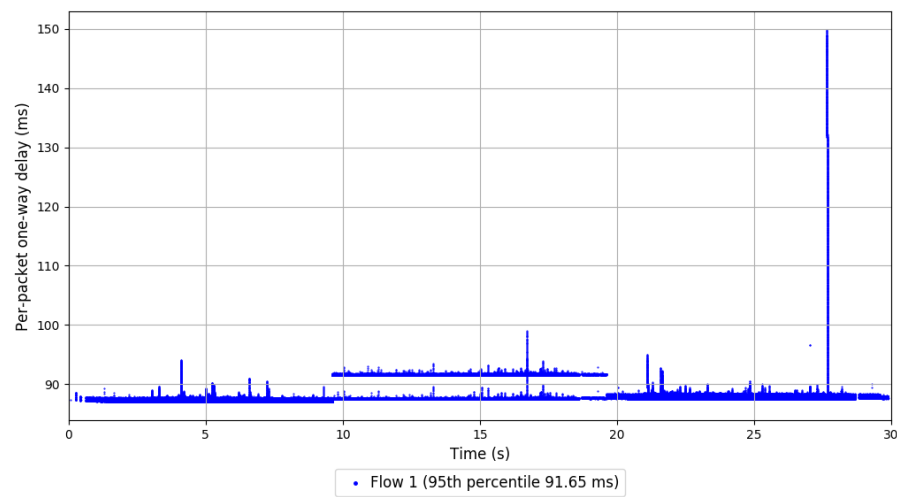
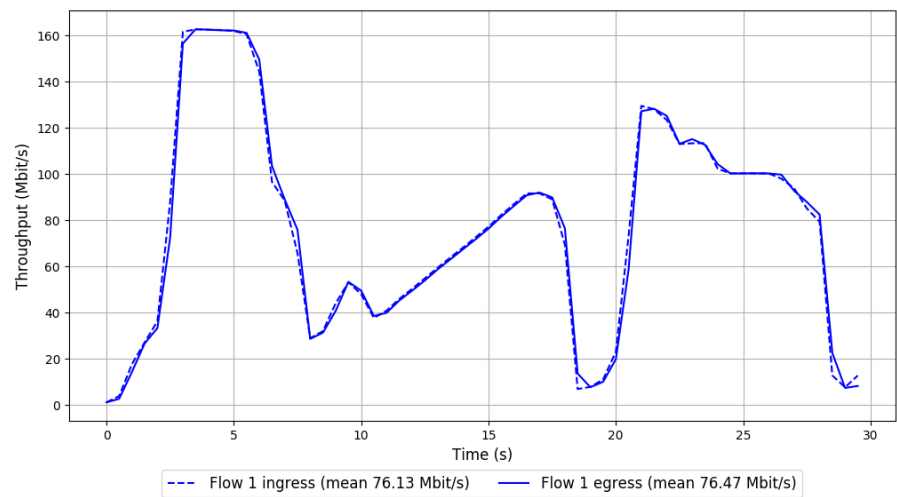
-- Flow 1:

Average throughput: 76.47 Mbit/s

95th percentile per-packet one-way delay: 91.647 ms

Loss rate: 0.13%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-19 17:49:10

End at: 2018-02-19 17:49:40

Below is generated by plot.py at 2018-02-19 22:35:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 128.50 Mbit/s

95th percentile per-packet one-way delay: 263.926 ms

Loss rate: 31.02%

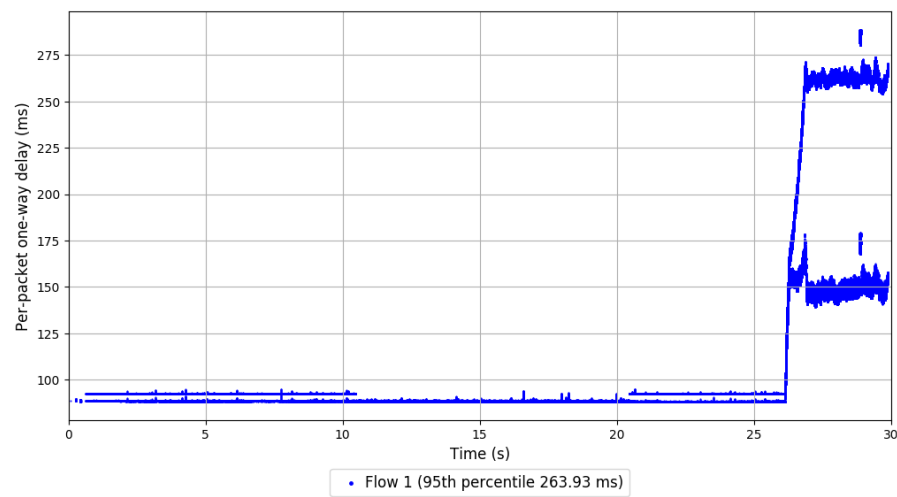
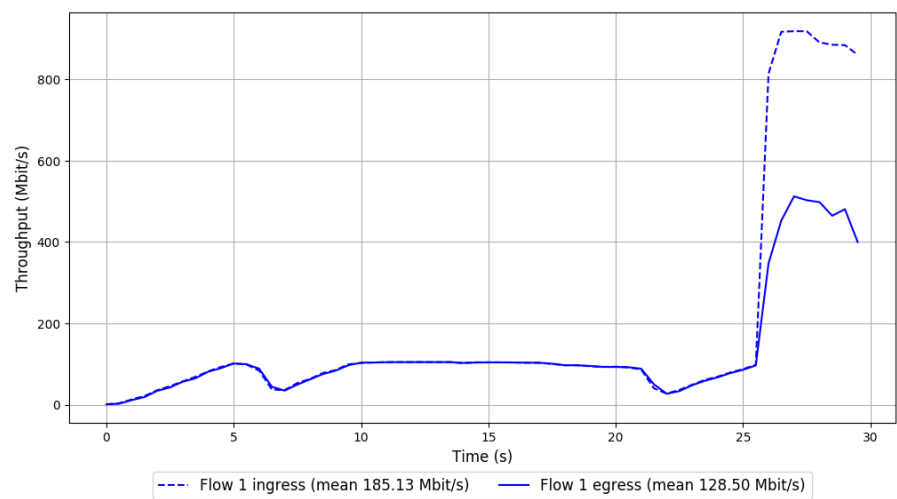
-- Flow 1:

Average throughput: 128.50 Mbit/s

95th percentile per-packet one-way delay: 263.926 ms

Loss rate: 31.02%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-19 18:04:26

End at: 2018-02-19 18:04:56

Below is generated by plot.py at 2018-02-19 22:36:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.75 Mbit/s

95th percentile per-packet one-way delay: 270.361 ms

Loss rate: 33.55%

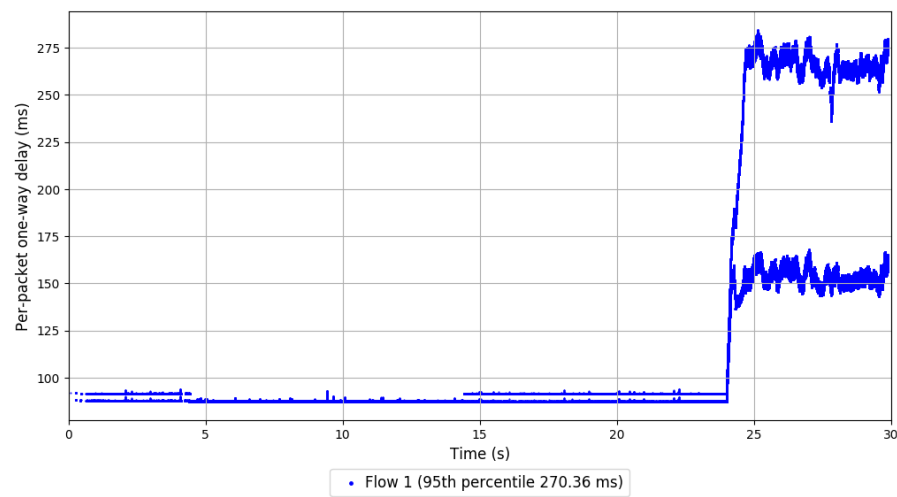
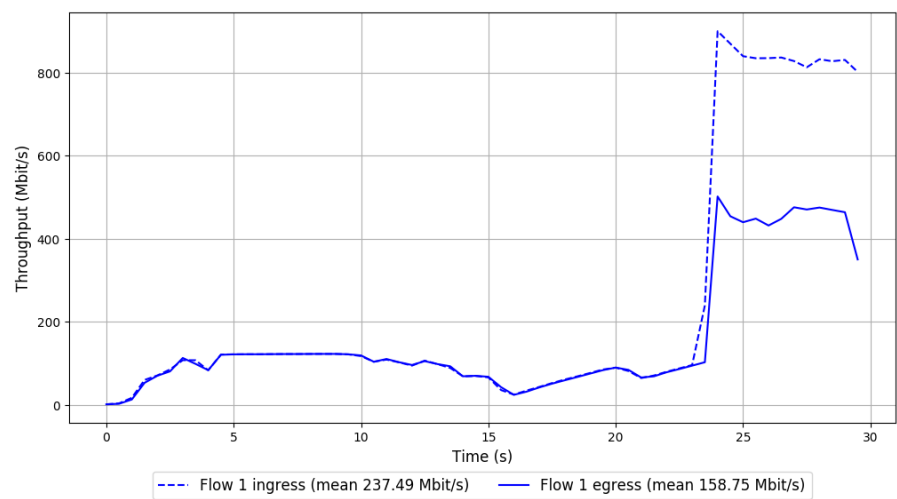
-- Flow 1:

Average throughput: 158.75 Mbit/s

95th percentile per-packet one-way delay: 270.361 ms

Loss rate: 33.55%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-19 18:19:51

End at: 2018-02-19 18:20:21

Below is generated by plot.py at 2018-02-19 22:39:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 233.36 Mbit/s

95th percentile per-packet one-way delay: 264.425 ms

Loss rate: 32.36%

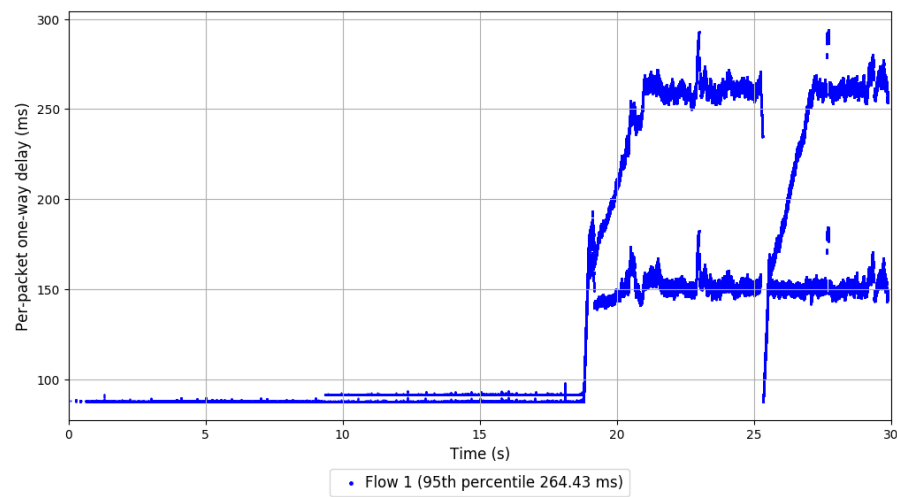
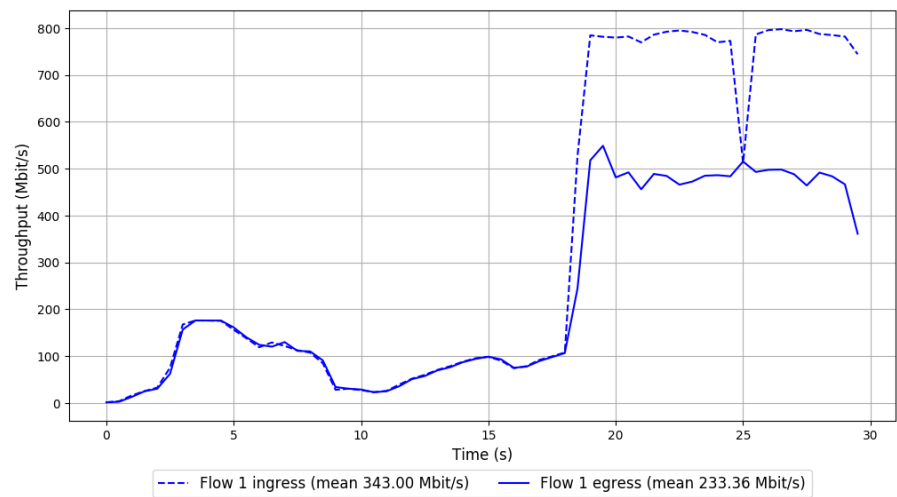
-- Flow 1:

Average throughput: 233.36 Mbit/s

95th percentile per-packet one-way delay: 264.425 ms

Loss rate: 32.36%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-19 18:35:16

End at: 2018-02-19 18:35:46

Below is generated by plot.py at 2018-02-19 22:39:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 240.73 Mbit/s

95th percentile per-packet one-way delay: 267.548 ms

Loss rate: 33.96%

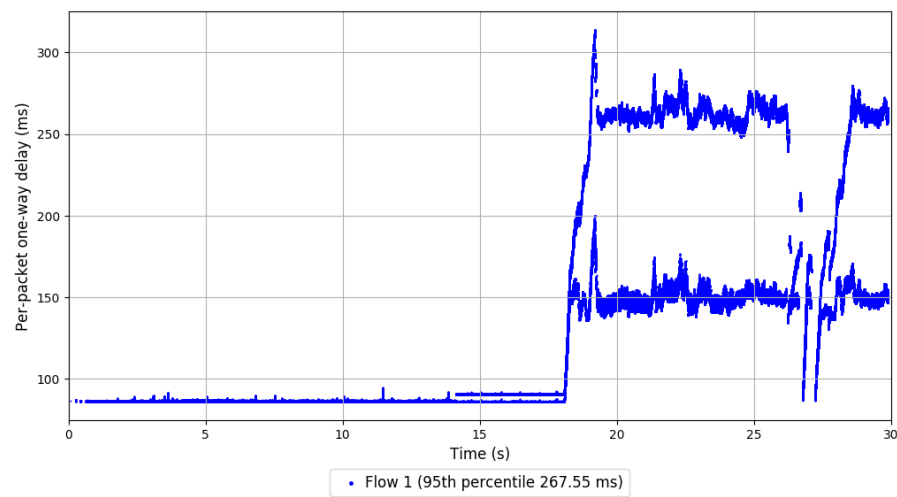
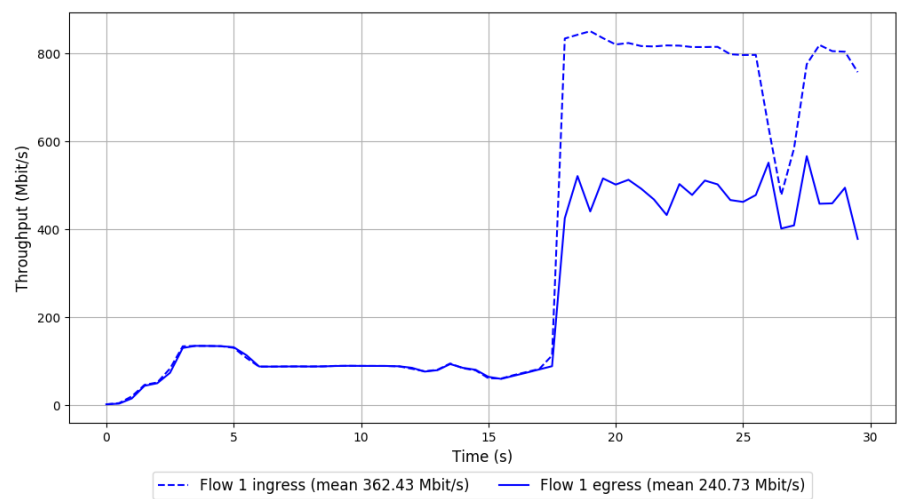
-- Flow 1:

Average throughput: 240.73 Mbit/s

95th percentile per-packet one-way delay: 267.548 ms

Loss rate: 33.96%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-19 18:51:09

End at: 2018-02-19 18:51:39

Below is generated by plot.py at 2018-02-19 22:47:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 429.96 Mbit/s

95th percentile per-packet one-way delay: 265.858 ms

Loss rate: 38.58%

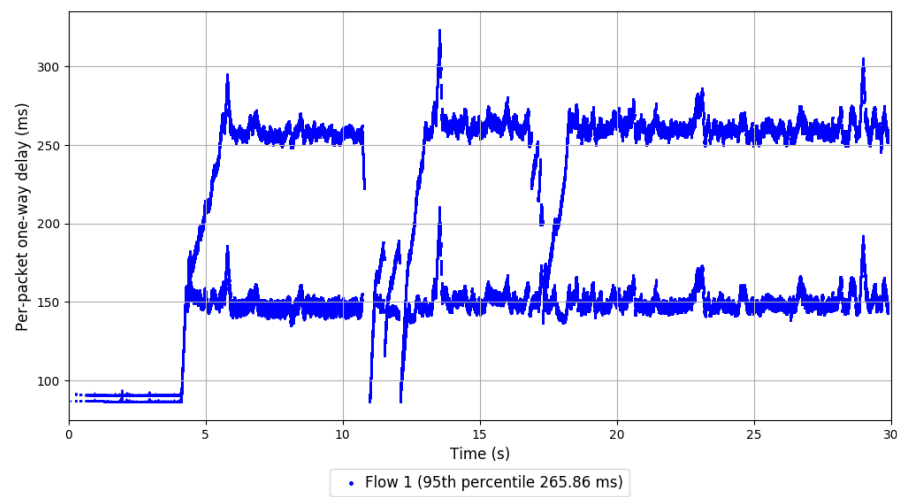
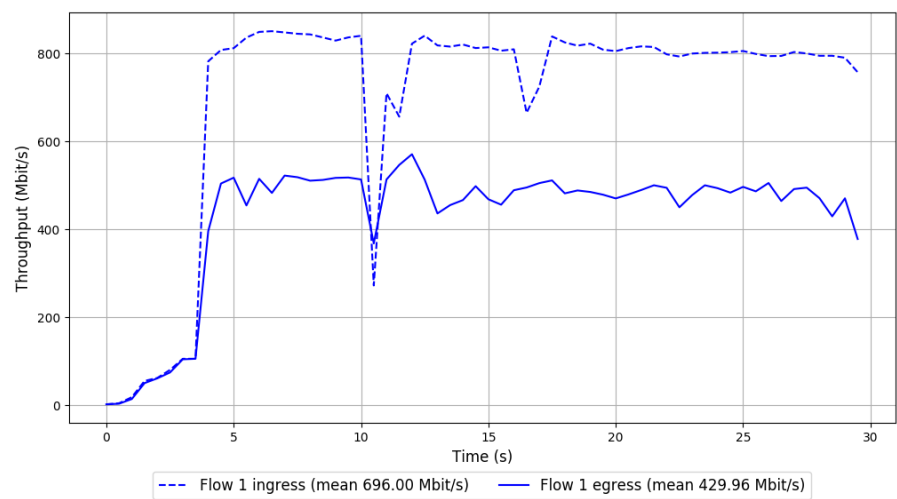
-- Flow 1:

Average throughput: 429.96 Mbit/s

95th percentile per-packet one-way delay: 265.858 ms

Loss rate: 38.58%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-19 19:06:57

End at: 2018-02-19 19:07:27

Below is generated by plot.py at 2018-02-19 22:47:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.33 Mbit/s

95th percentile per-packet one-way delay: 86.918 ms

Loss rate: 0.73%

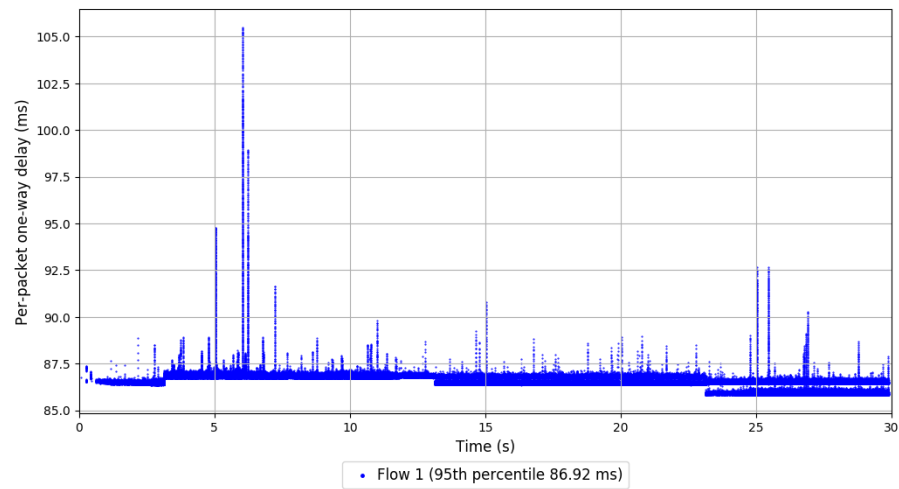
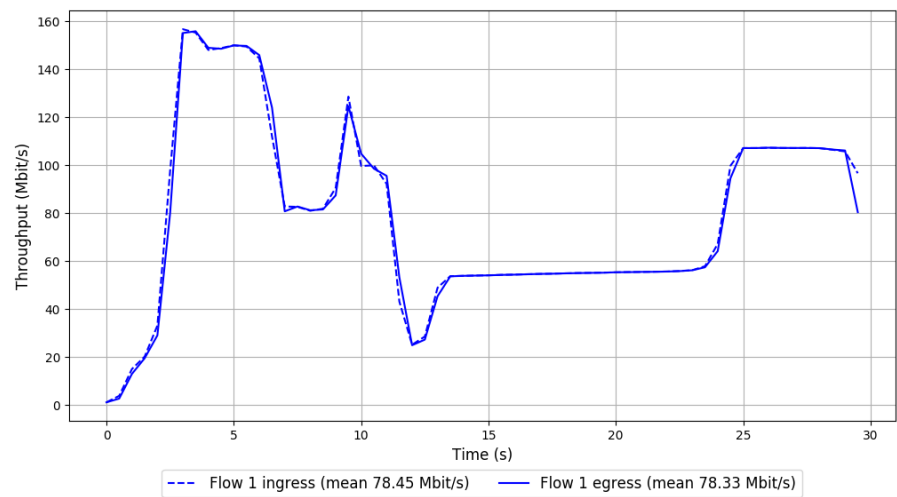
-- Flow 1:

Average throughput: 78.33 Mbit/s

95th percentile per-packet one-way delay: 86.918 ms

Loss rate: 0.73%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-02-19 16:52:53

End at: 2018-02-19 16:53:23

Below is generated by plot.py at 2018-02-19 22:48:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 931.08 Mbit/s

95th percentile per-packet one-way delay: 159.144 ms

Loss rate: 2.75%

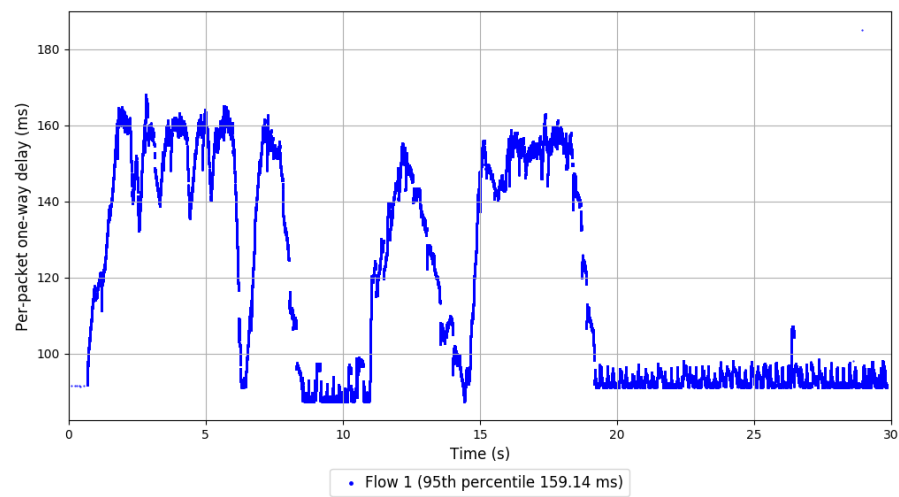
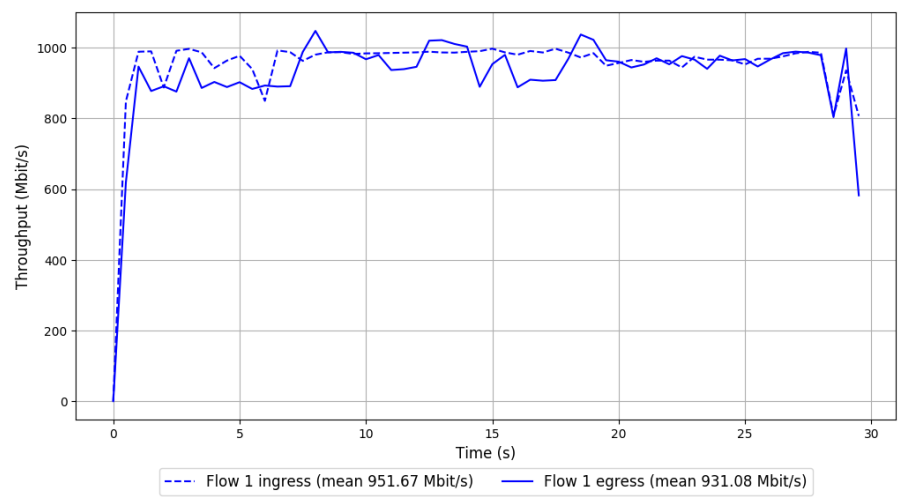
-- Flow 1:

Average throughput: 931.08 Mbit/s

95th percentile per-packet one-way delay: 159.144 ms

Loss rate: 2.75%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-19 17:08:12

End at: 2018-02-19 17:08:42

Below is generated by plot.py at 2018-02-19 22:50:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 954.25 Mbit/s

95th percentile per-packet one-way delay: 101.389 ms

Loss rate: 1.44%

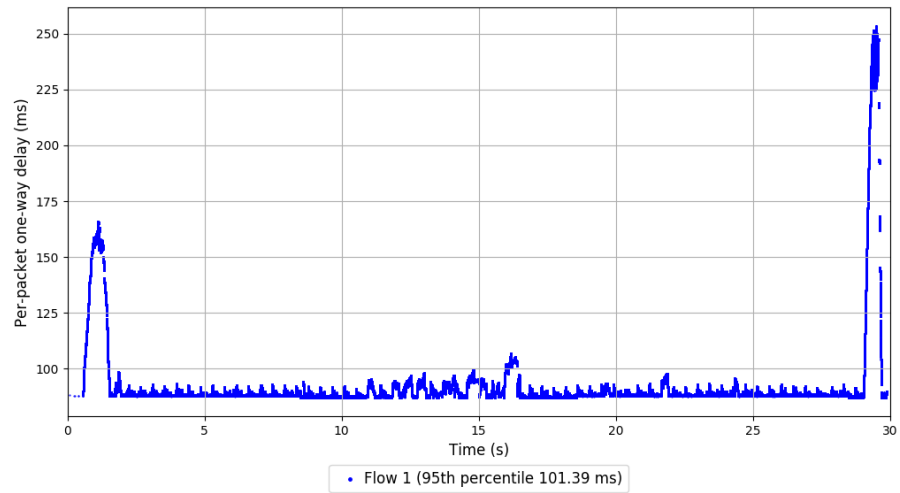
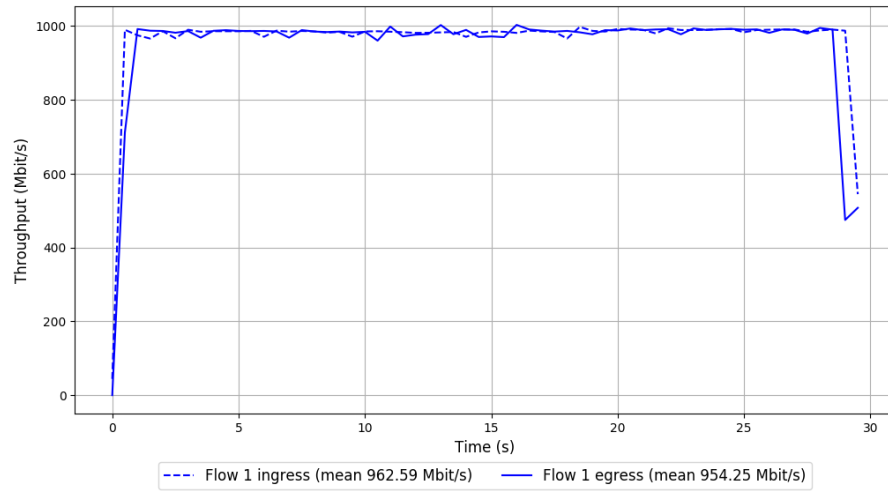
-- Flow 1:

Average throughput: 954.25 Mbit/s

95th percentile per-packet one-way delay: 101.389 ms

Loss rate: 1.44%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-19 17:23:02

End at: 2018-02-19 17:23:32

Below is generated by plot.py at 2018-02-19 22:50:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 895.56 Mbit/s

95th percentile per-packet one-way delay: 163.845 ms

Loss rate: 6.64%

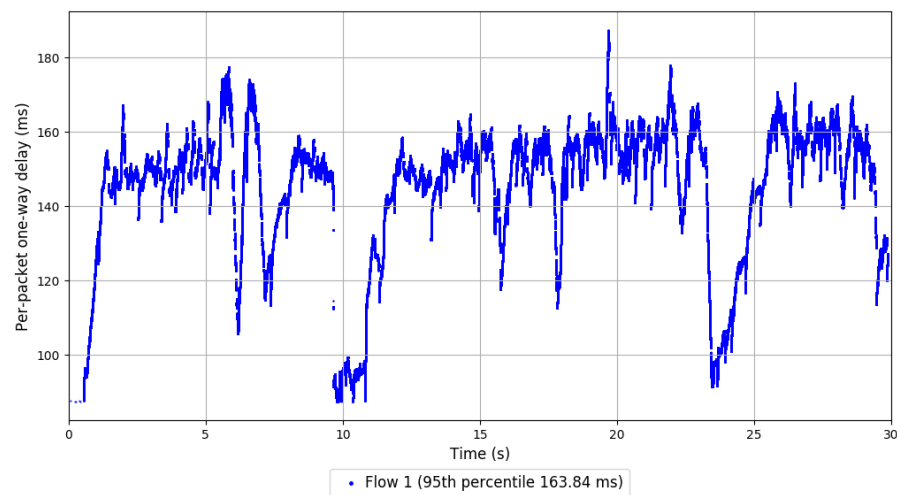
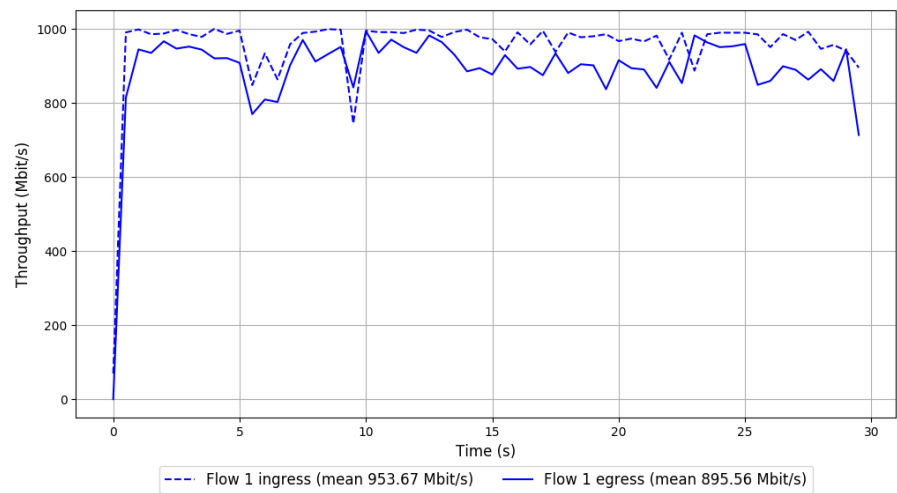
-- Flow 1:

Average throughput: 895.56 Mbit/s

95th percentile per-packet one-way delay: 163.845 ms

Loss rate: 6.64%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-19 17:38:03

End at: 2018-02-19 17:38:33

Below is generated by plot.py at 2018-02-19 22:52:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 863.43 Mbit/s

95th percentile per-packet one-way delay: 165.315 ms

Loss rate: 8.44%

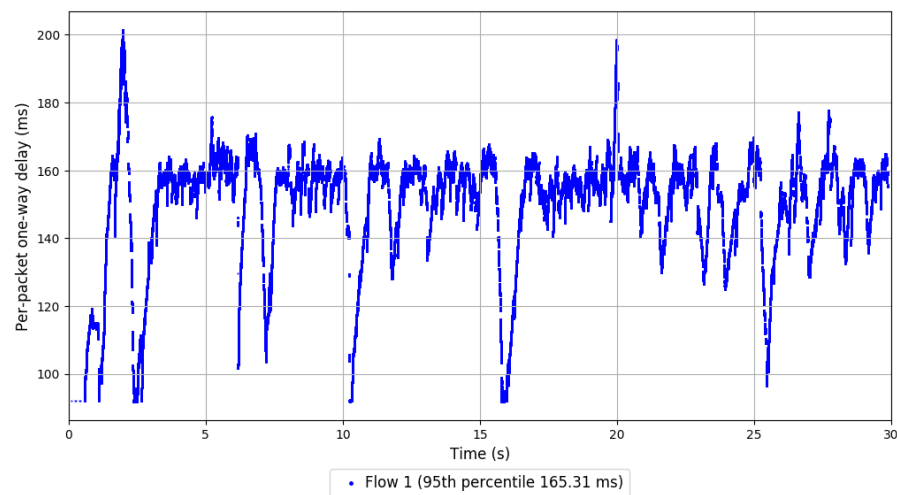
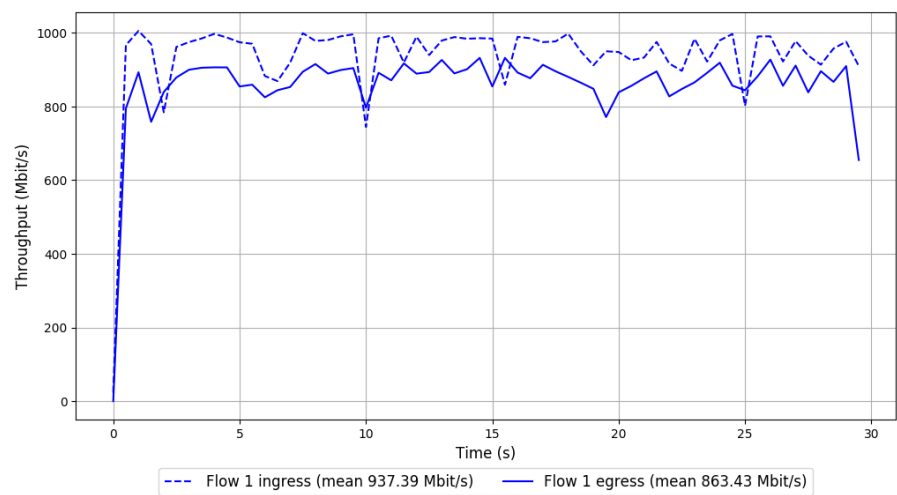
-- Flow 1:

Average throughput: 863.43 Mbit/s

95th percentile per-packet one-way delay: 165.315 ms

Loss rate: 8.44%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-19 17:53:19

End at: 2018-02-19 17:53:49

Below is generated by plot.py at 2018-02-19 22:54:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 933.99 Mbit/s

95th percentile per-packet one-way delay: 161.425 ms

Loss rate: 3.53%

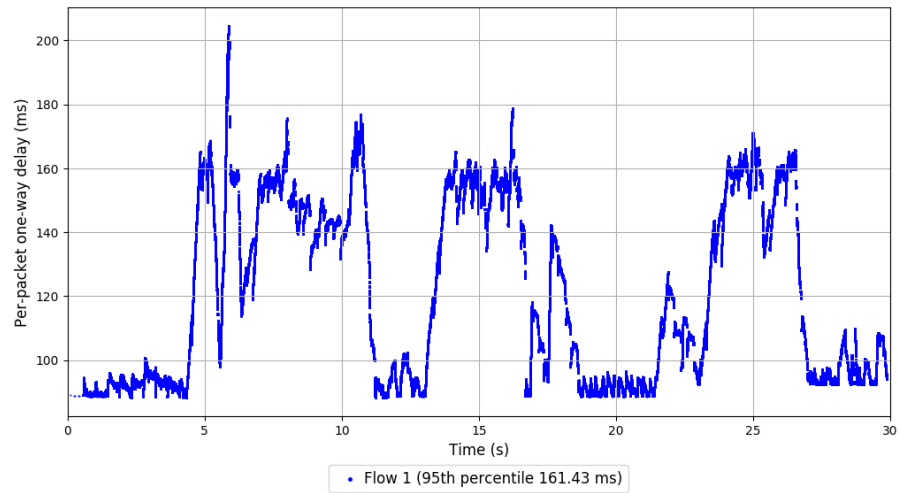
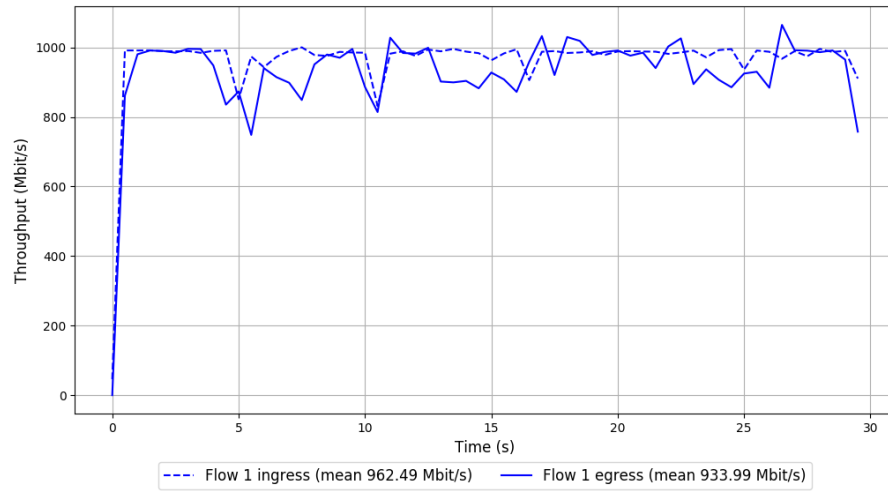
-- Flow 1:

Average throughput: 933.99 Mbit/s

95th percentile per-packet one-way delay: 161.425 ms

Loss rate: 3.53%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-19 18:08:38

End at: 2018-02-19 18:09:08

Below is generated by plot.py at 2018-02-19 22:56:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 936.42 Mbit/s

95th percentile per-packet one-way delay: 157.870 ms

Loss rate: 2.93%

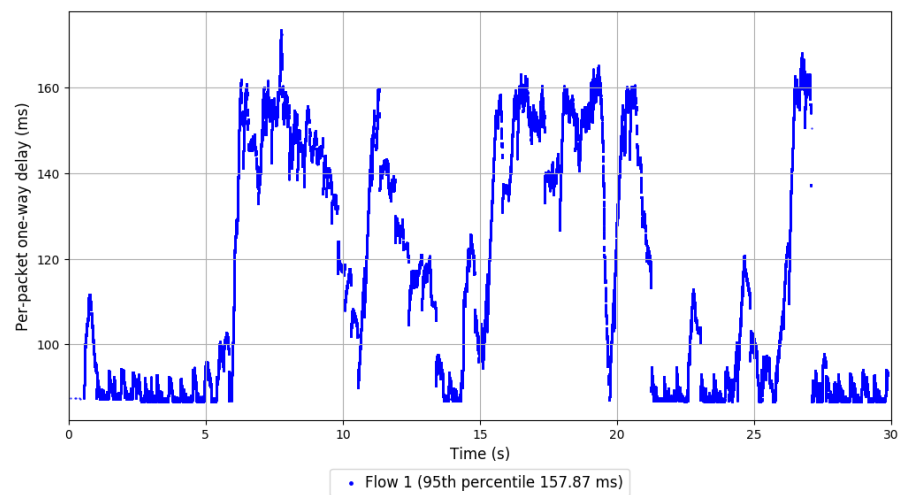
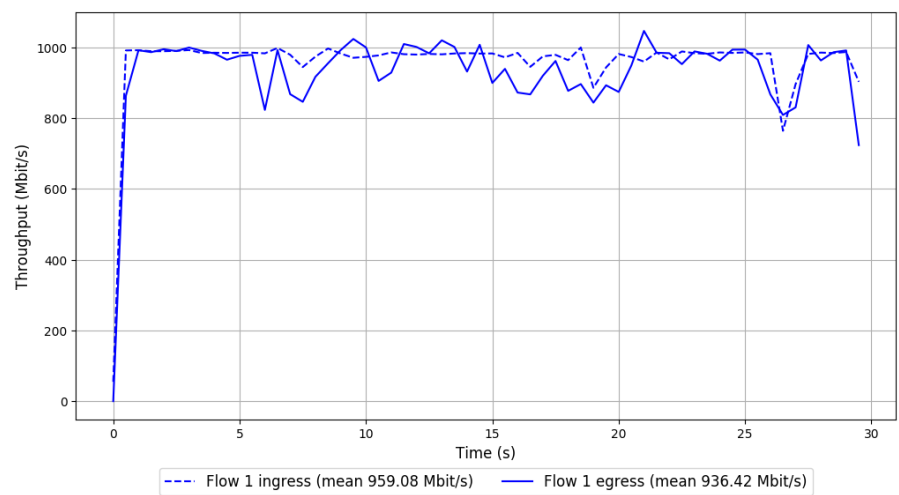
-- Flow 1:

Average throughput: 936.42 Mbit/s

95th percentile per-packet one-way delay: 157.870 ms

Loss rate: 2.93%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-19 18:24:09

End at: 2018-02-19 18:24:39

Below is generated by plot.py at 2018-02-19 22:58:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 969.05 Mbit/s

95th percentile per-packet one-way delay: 97.086 ms

Loss rate: 0.78%

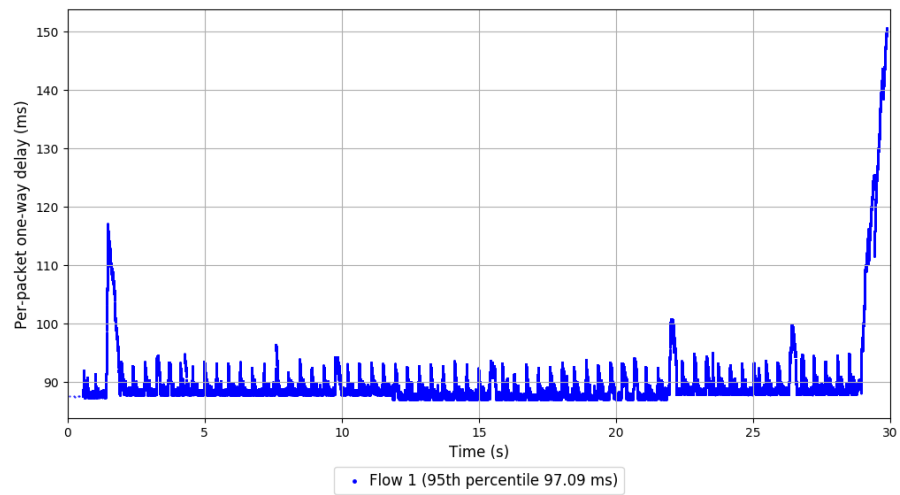
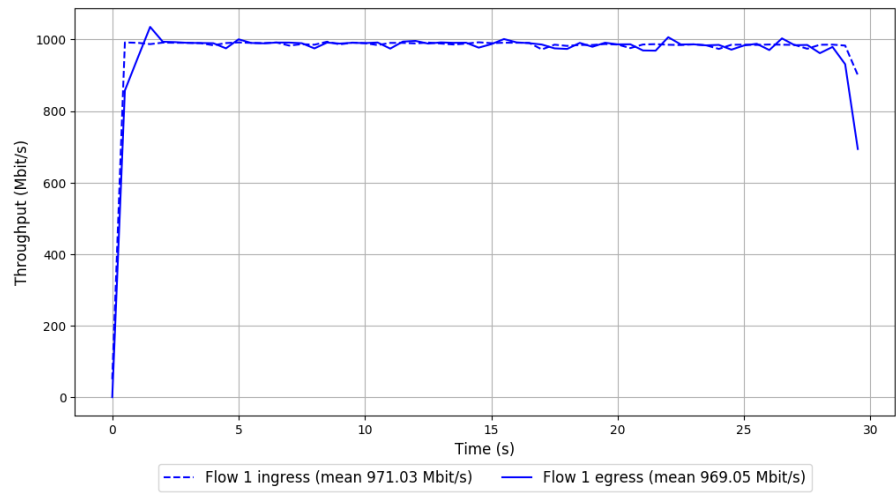
-- Flow 1:

Average throughput: 969.05 Mbit/s

95th percentile per-packet one-way delay: 97.086 ms

Loss rate: 0.78%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-19 18:39:32

End at: 2018-02-19 18:40:02

Below is generated by plot.py at 2018-02-19 23:05:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 940.88 Mbit/s

95th percentile per-packet one-way delay: 154.397 ms

Loss rate: 3.37%

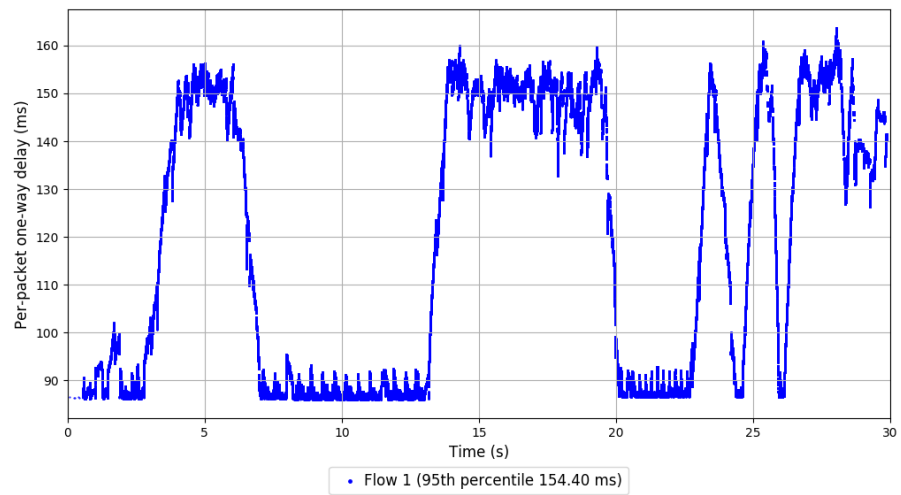
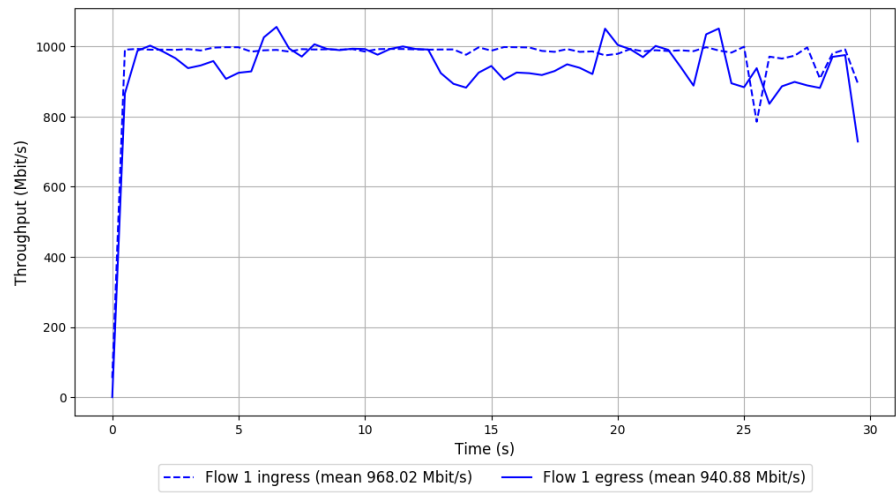
-- Flow 1:

Average throughput: 940.88 Mbit/s

95th percentile per-packet one-way delay: 154.397 ms

Loss rate: 3.37%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-19 18:55:43

End at: 2018-02-19 18:56:13

Below is generated by plot.py at 2018-02-19 23:07:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 934.57 Mbit/s

95th percentile per-packet one-way delay: 156.145 ms

Loss rate: 3.23%

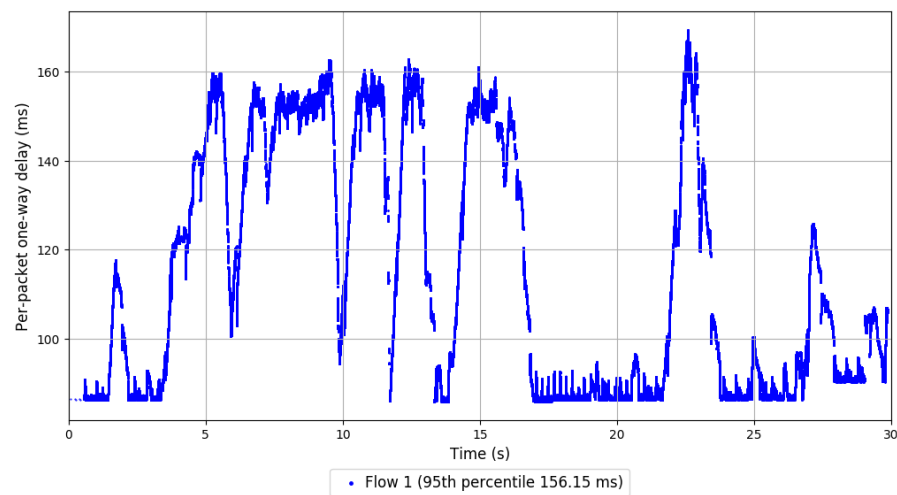
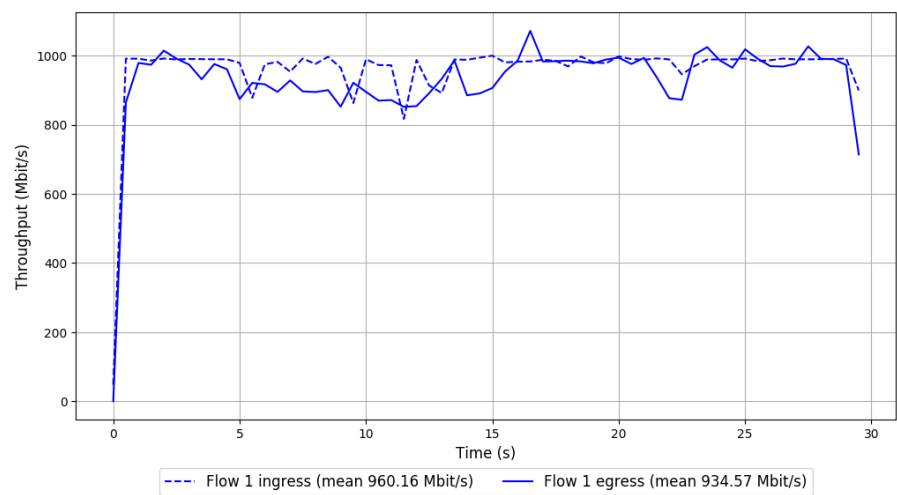
-- Flow 1:

Average throughput: 934.57 Mbit/s

95th percentile per-packet one-way delay: 156.145 ms

Loss rate: 3.23%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-19 19:10:59

End at: 2018-02-19 19:11:29

Below is generated by plot.py at 2018-02-19 23:08:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 966.20 Mbit/s

95th percentile per-packet one-way delay: 126.438 ms

Loss rate: 1.16%

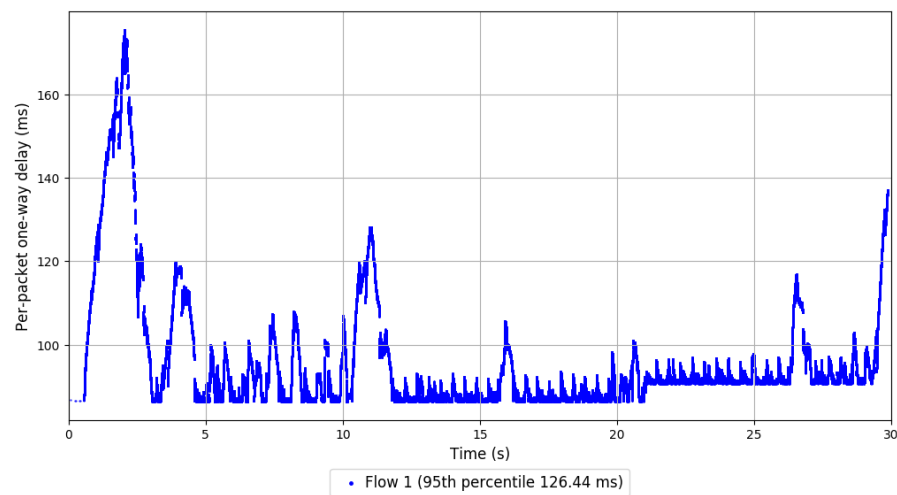
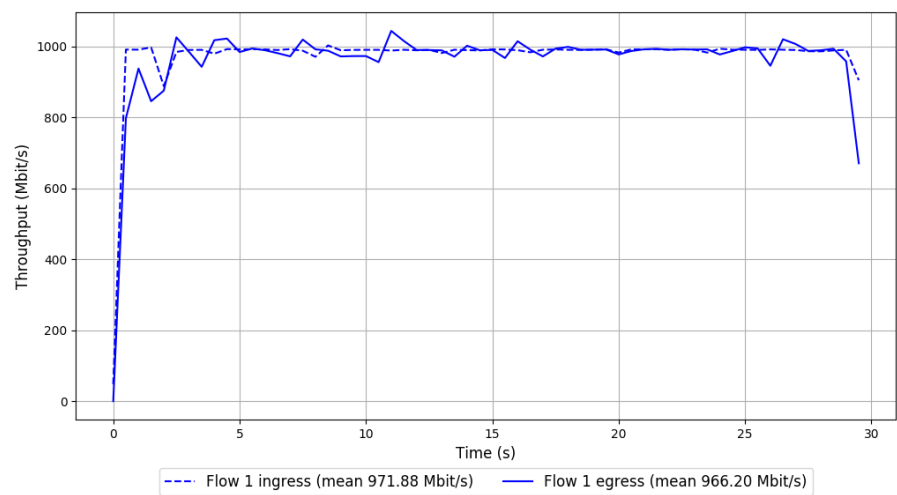
-- Flow 1:

Average throughput: 966.20 Mbit/s

95th percentile per-packet one-way delay: 126.438 ms

Loss rate: 1.16%

Run 10: Report of FillP — Data Link

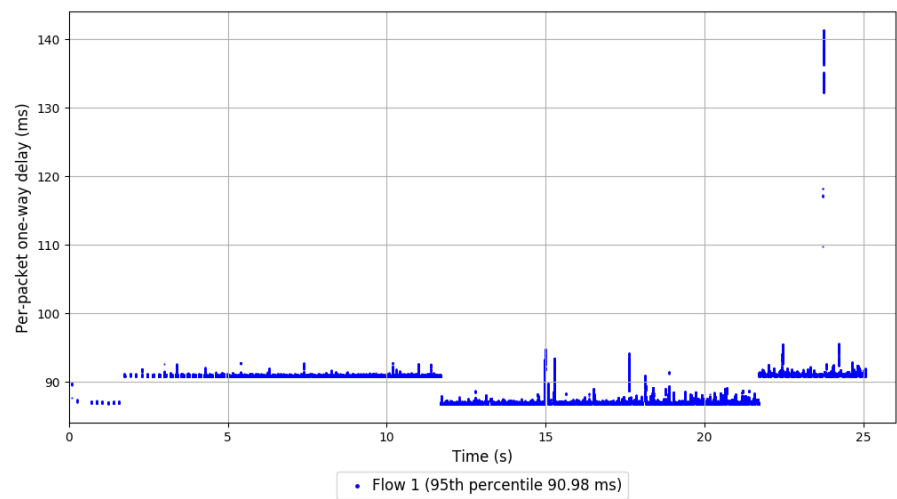
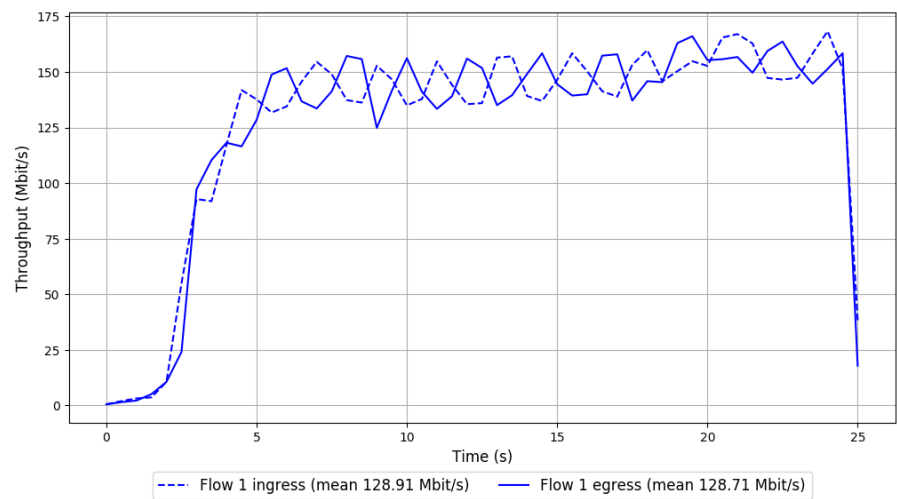


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-19 16:49:44
End at: 2018-02-19 16:50:14

# Below is generated by plot.py at 2018-02-19 23:08:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 128.71 Mbit/s
95th percentile per-packet one-way delay: 90.983 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 128.71 Mbit/s
95th percentile per-packet one-way delay: 90.983 ms
Loss rate: 0.85%
```

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-02-19 17:04:55

End at: 2018-02-19 17:05:25

Below is generated by plot.py at 2018-02-19 23:08:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.24 Mbit/s

95th percentile per-packet one-way delay: 91.106 ms

Loss rate: 0.66%

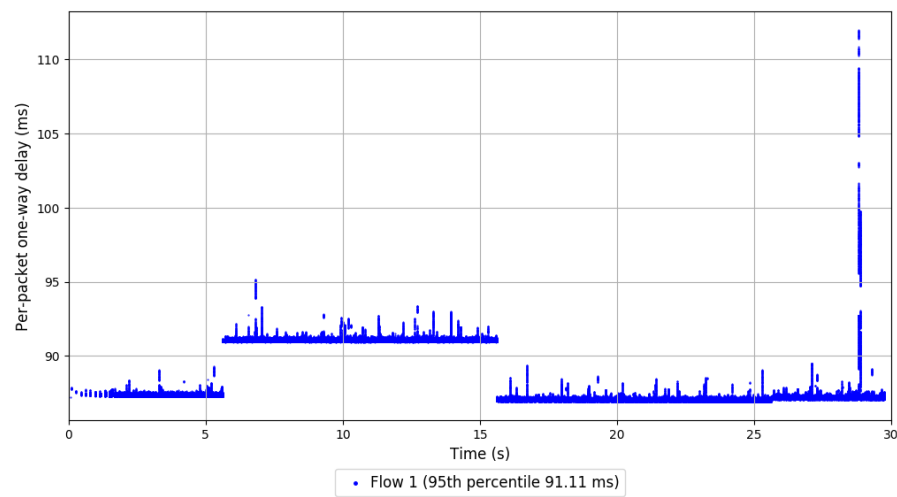
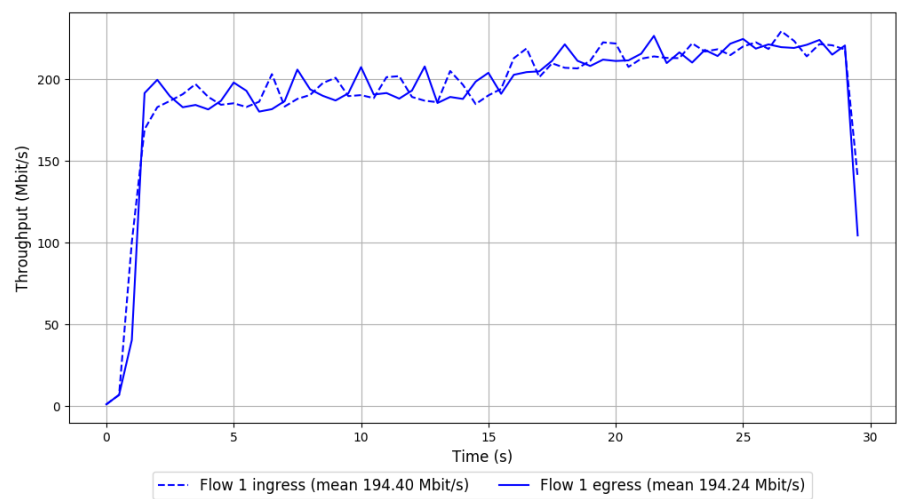
-- Flow 1:

Average throughput: 194.24 Mbit/s

95th percentile per-packet one-way delay: 91.106 ms

Loss rate: 0.66%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-19 17:19:56

End at: 2018-02-19 17:20:26

Below is generated by plot.py at 2018-02-19 23:08:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.77 Mbit/s

95th percentile per-packet one-way delay: 91.544 ms

Loss rate: 0.57%

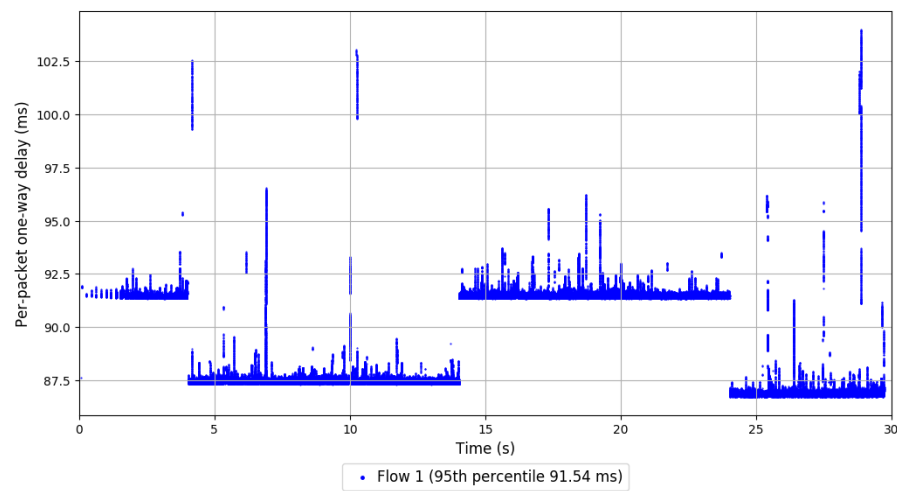
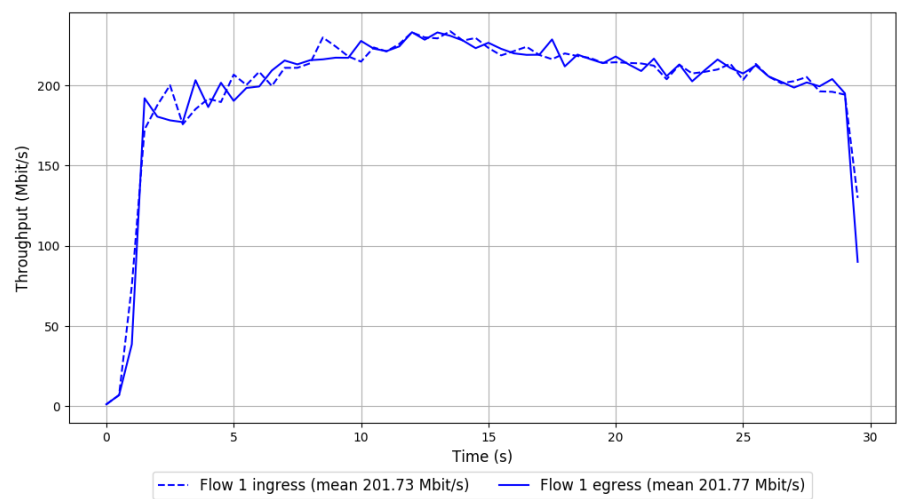
-- Flow 1:

Average throughput: 201.77 Mbit/s

95th percentile per-packet one-way delay: 91.544 ms

Loss rate: 0.57%

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



Run 4: Statistics of Indigo-1-32

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

End at: 2018-02-19 17:35:17

Below is generated by plot.py at 2018-02-19 23:08:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.79 Mbit/s

95th percentile per-packet one-way delay: 87.741 ms

Loss rate: 0.58%

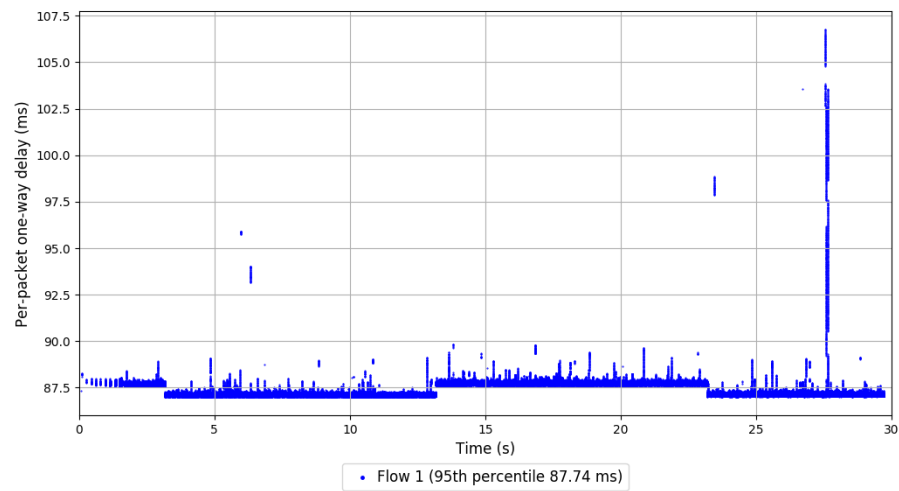
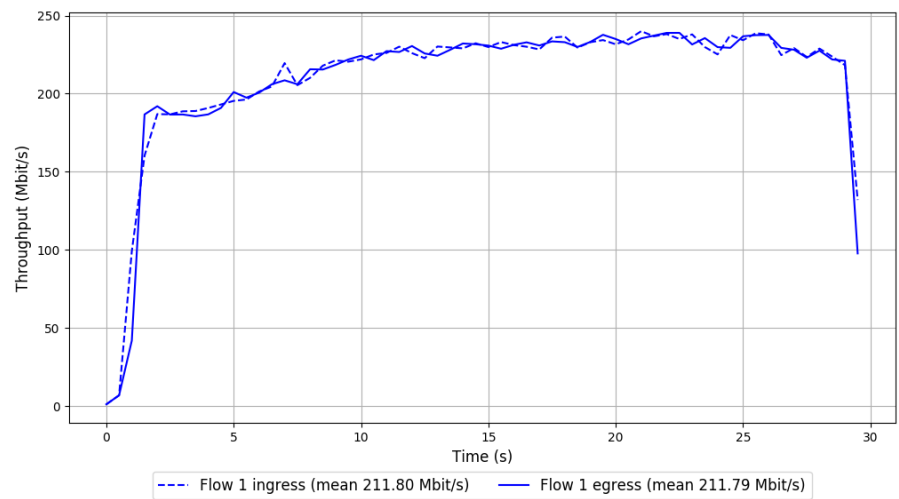
-- Flow 1:

Average throughput: 211.79 Mbit/s

95th percentile per-packet one-way delay: 87.741 ms

Loss rate: 0.58%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-19 17:50:01

End at: 2018-02-19 17:50:31

Below is generated by plot.py at 2018-02-19 23:08:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.42 Mbit/s

95th percentile per-packet one-way delay: 92.492 ms

Loss rate: 0.63%

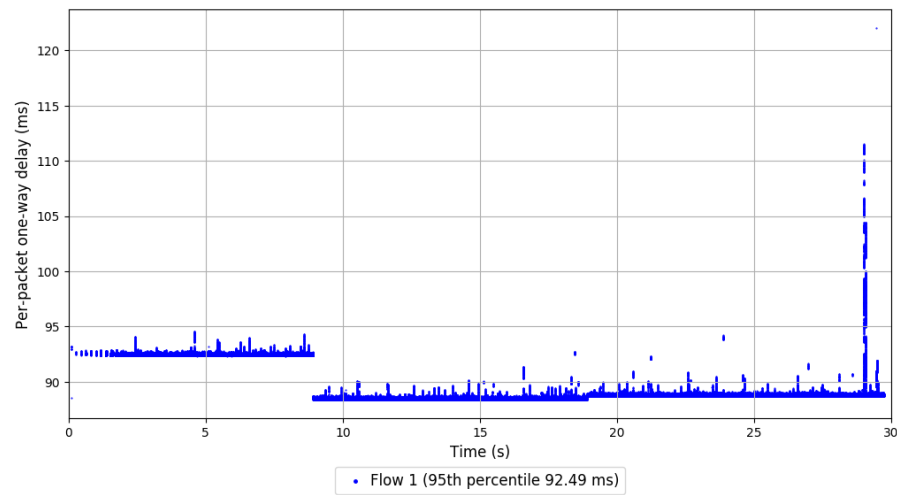
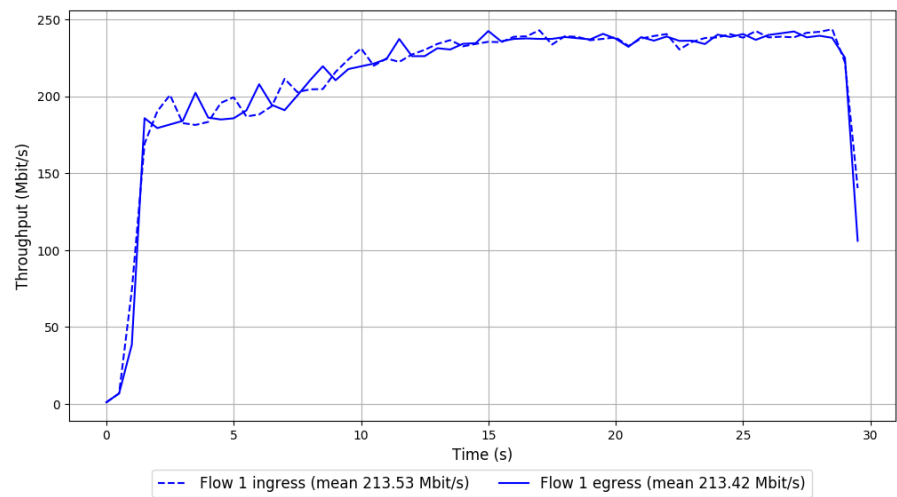
-- Flow 1:

Average throughput: 213.42 Mbit/s

95th percentile per-packet one-way delay: 92.492 ms

Loss rate: 0.63%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-19 18:05:20

End at: 2018-02-19 18:05:50

Below is generated by plot.py at 2018-02-19 23:08:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.13 Mbit/s

95th percentile per-packet one-way delay: 91.502 ms

Loss rate: 0.68%

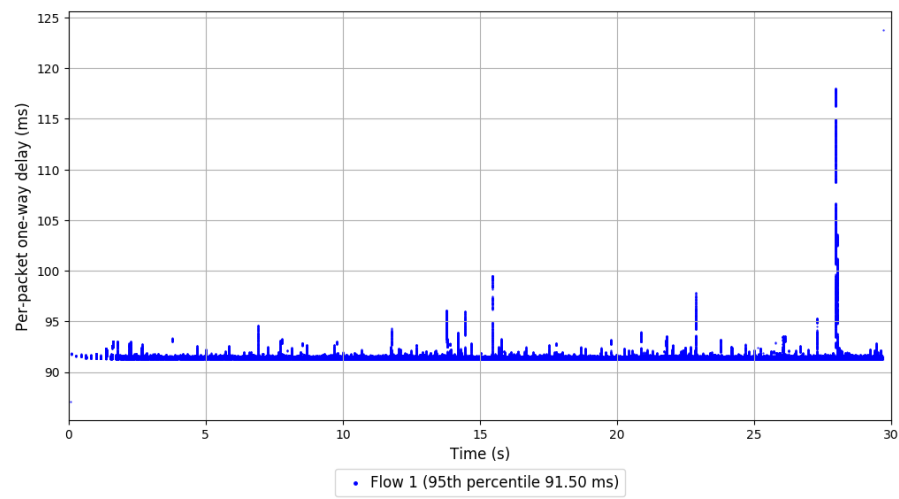
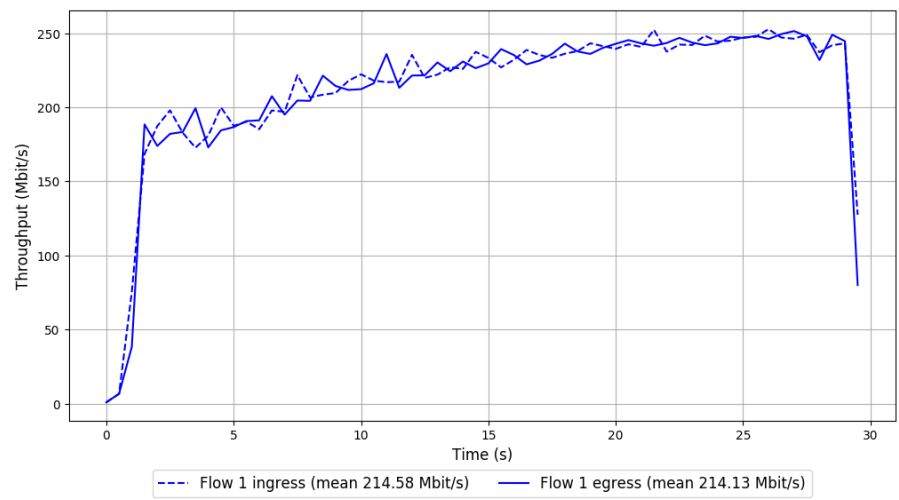
-- Flow 1:

Average throughput: 214.13 Mbit/s

95th percentile per-packet one-way delay: 91.502 ms

Loss rate: 0.68%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-19 18:20:50

End at: 2018-02-19 18:21:20

Below is generated by plot.py at 2018-02-19 23:08:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.17 Mbit/s

95th percentile per-packet one-way delay: 91.579 ms

Loss rate: 0.56%

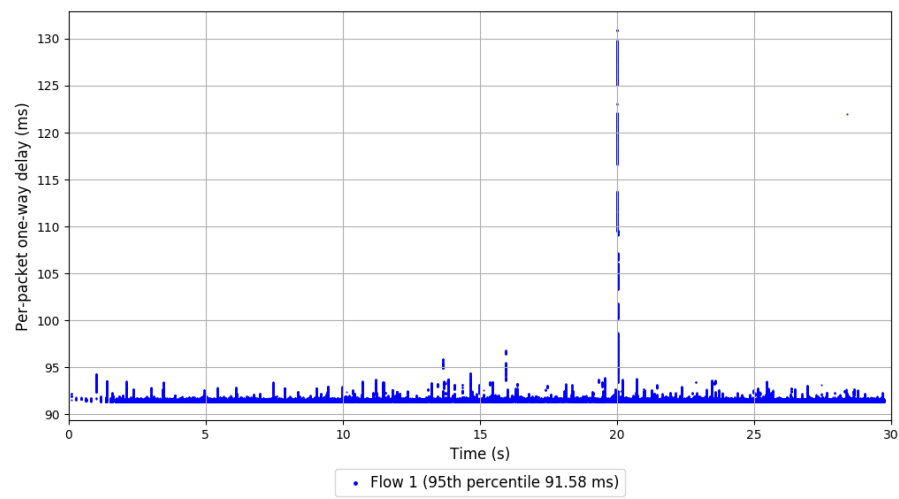
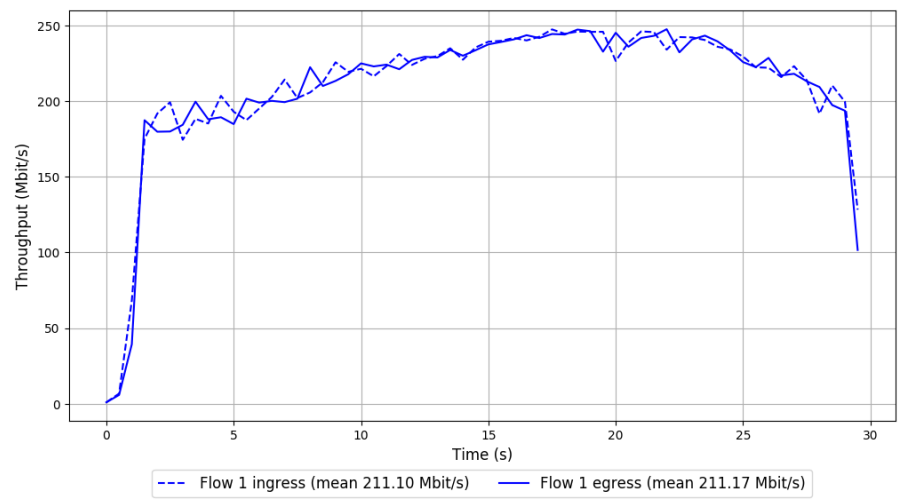
-- Flow 1:

Average throughput: 211.17 Mbit/s

95th percentile per-packet one-way delay: 91.579 ms

Loss rate: 0.56%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-19 18:36:17

End at: 2018-02-19 18:36:47

Below is generated by plot.py at 2018-02-19 23:08:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.53 Mbit/s

95th percentile per-packet one-way delay: 90.778 ms

Loss rate: 0.62%

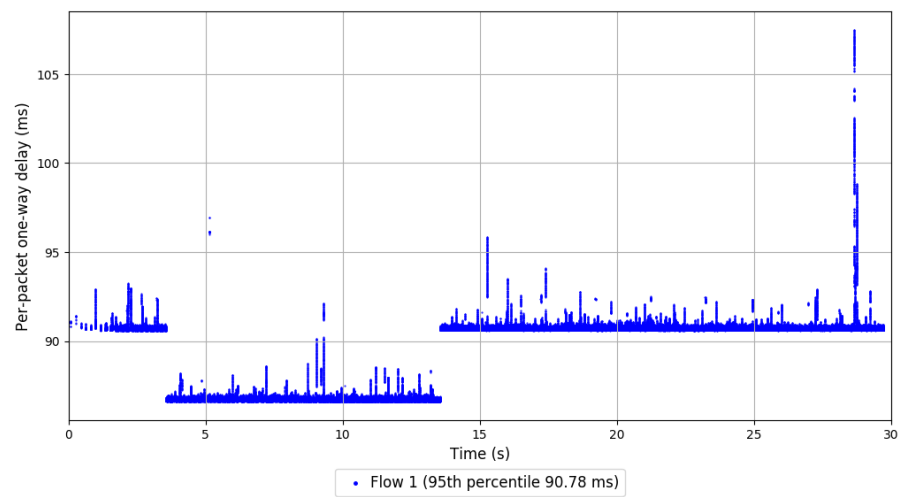
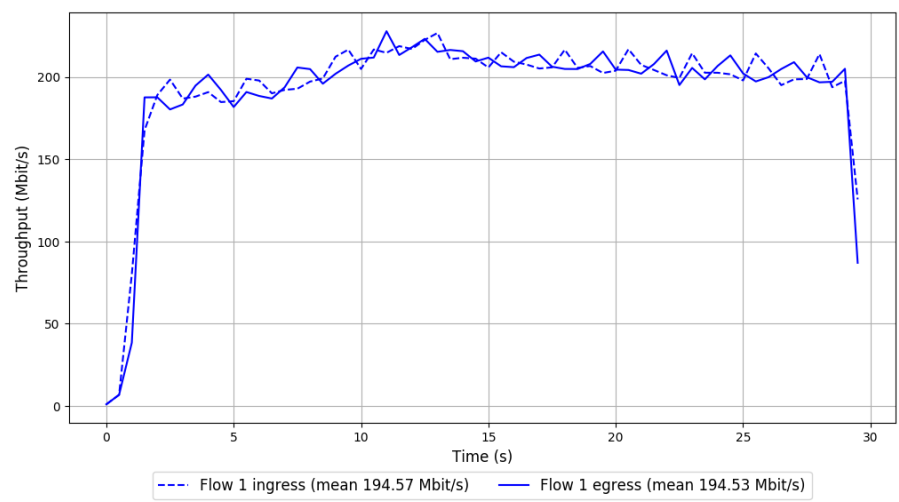
-- Flow 1:

Average throughput: 194.53 Mbit/s

95th percentile per-packet one-way delay: 90.778 ms

Loss rate: 0.62%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-19 18:52:26

End at: 2018-02-19 18:52:56

Below is generated by plot.py at 2018-02-19 23:08:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.35 Mbit/s

95th percentile per-packet one-way delay: 90.559 ms

Loss rate: 0.62%

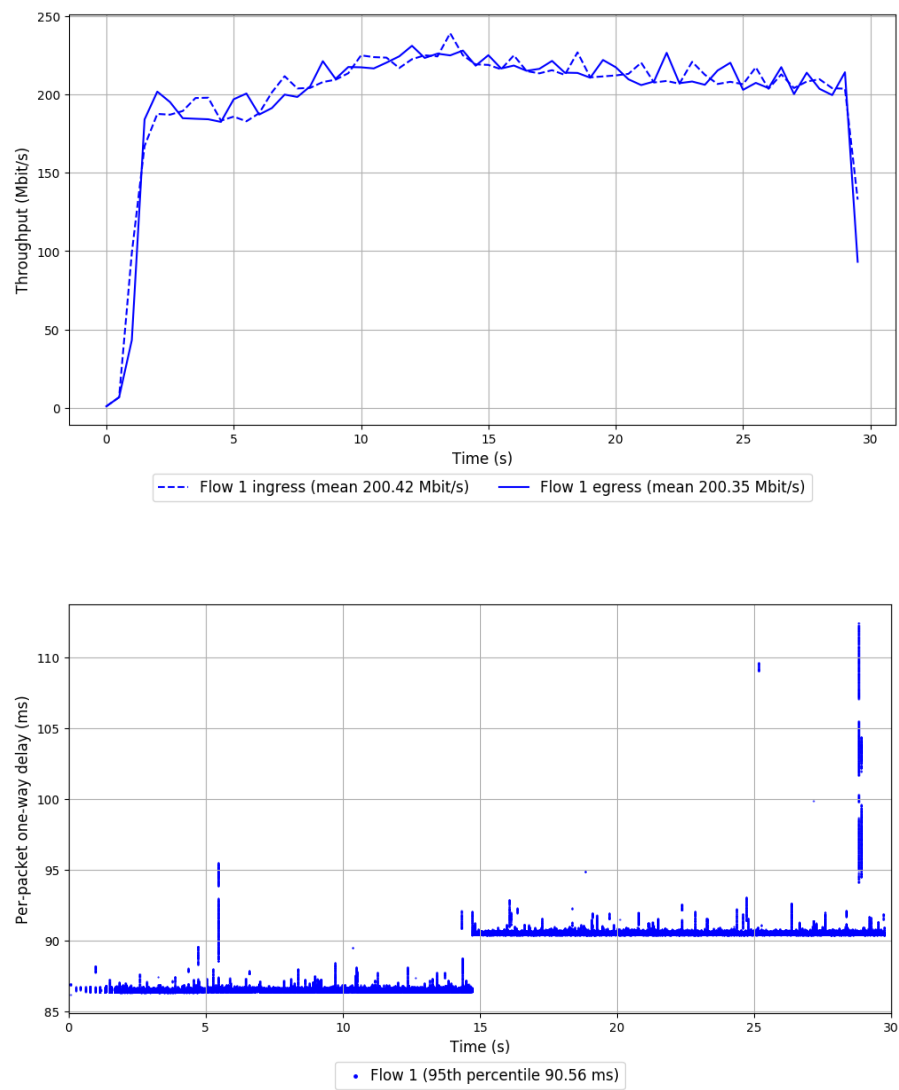
-- Flow 1:

Average throughput: 200.35 Mbit/s

95th percentile per-packet one-way delay: 90.559 ms

Loss rate: 0.62%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-19 19:07:44

End at: 2018-02-19 19:08:14

Below is generated by plot.py at 2018-02-19 23:08:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.24 Mbit/s

95th percentile per-packet one-way delay: 86.929 ms

Loss rate: 0.66%

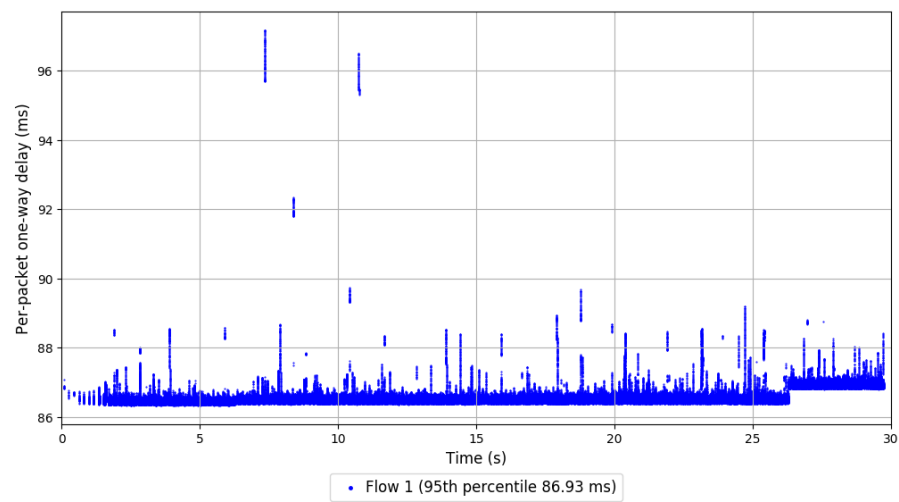
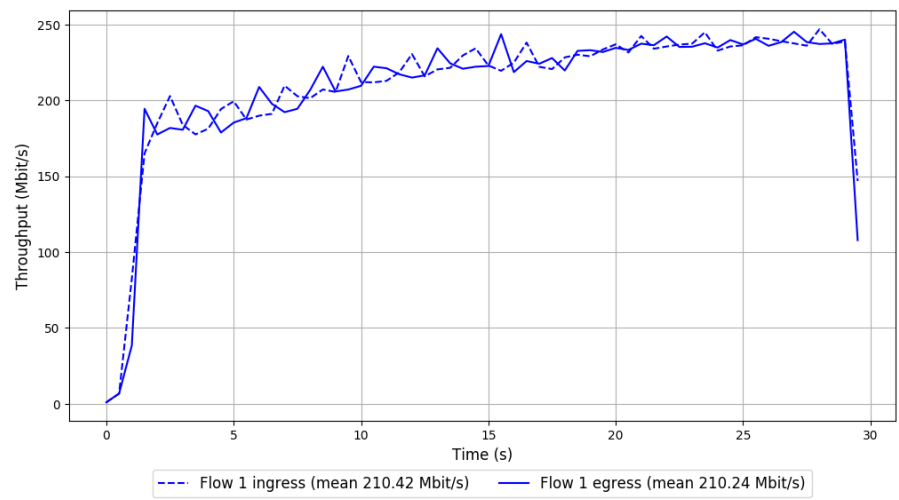
-- Flow 1:

Average throughput: 210.24 Mbit/s

95th percentile per-packet one-way delay: 86.929 ms

Loss rate: 0.66%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-02-19 16:51:10

End at: 2018-02-19 16:51:40

Below is generated by plot.py at 2018-02-19 23:08:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 361.97 Mbit/s

95th percentile per-packet one-way delay: 114.025 ms

Loss rate: 0.88%

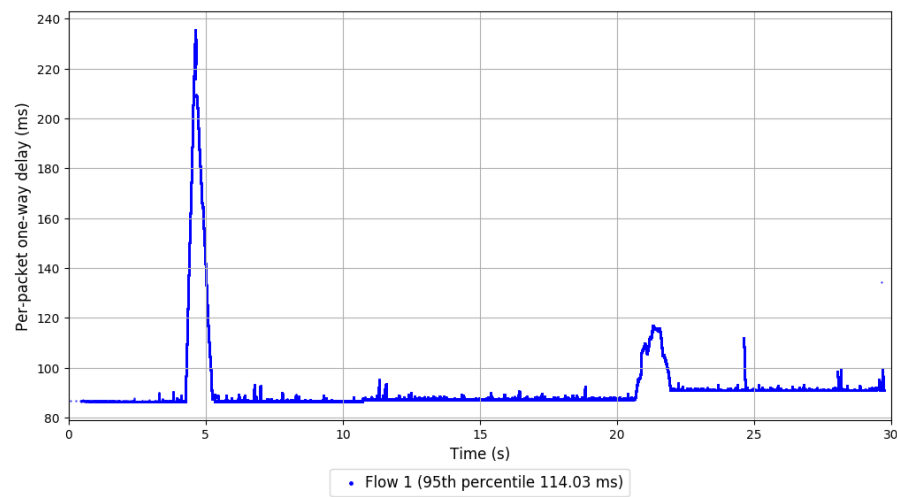
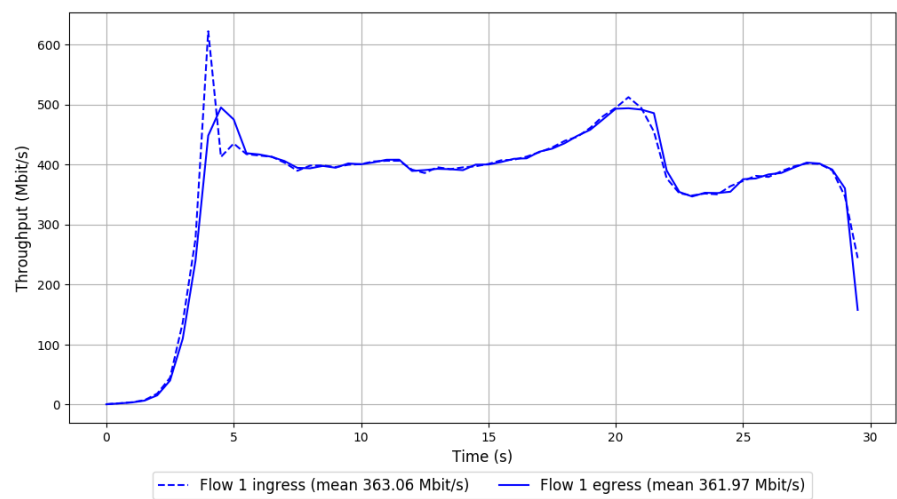
-- Flow 1:

Average throughput: 361.97 Mbit/s

95th percentile per-packet one-way delay: 114.025 ms

Loss rate: 0.88%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-19 17:06:26

End at: 2018-02-19 17:06:56

Below is generated by plot.py at 2018-02-19 23:08:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 395.01 Mbit/s

95th percentile per-packet one-way delay: 91.773 ms

Loss rate: 0.73%

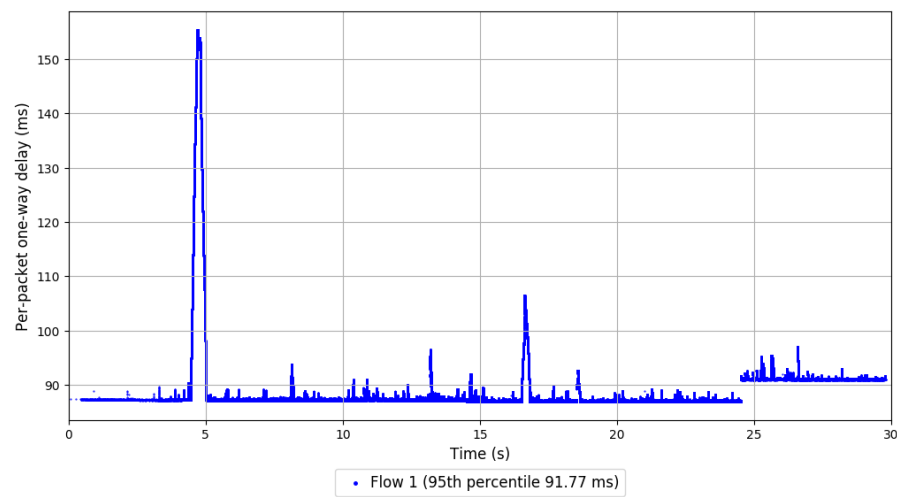
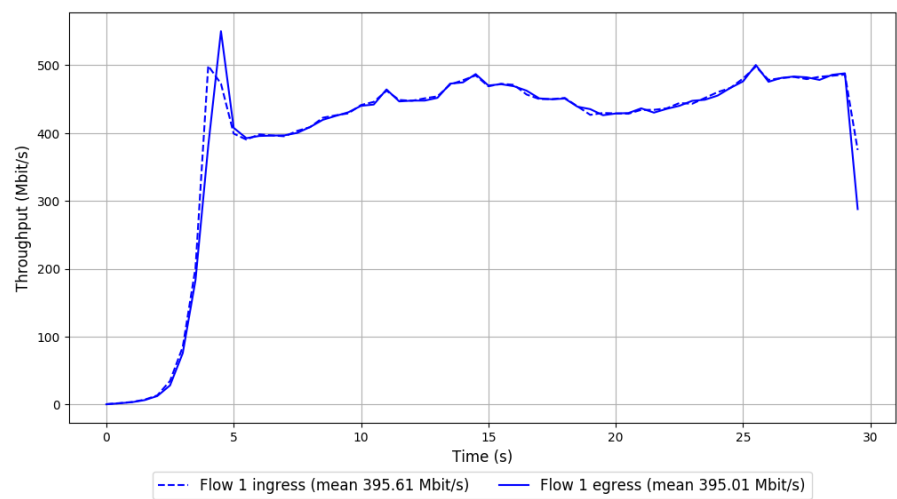
-- Flow 1:

Average throughput: 395.01 Mbit/s

95th percentile per-packet one-way delay: 91.773 ms

Loss rate: 0.73%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-19 17:21:28

End at: 2018-02-19 17:21:58

Below is generated by plot.py at 2018-02-19 23:08:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.71 Mbit/s

95th percentile per-packet one-way delay: 149.706 ms

Loss rate: 1.23%

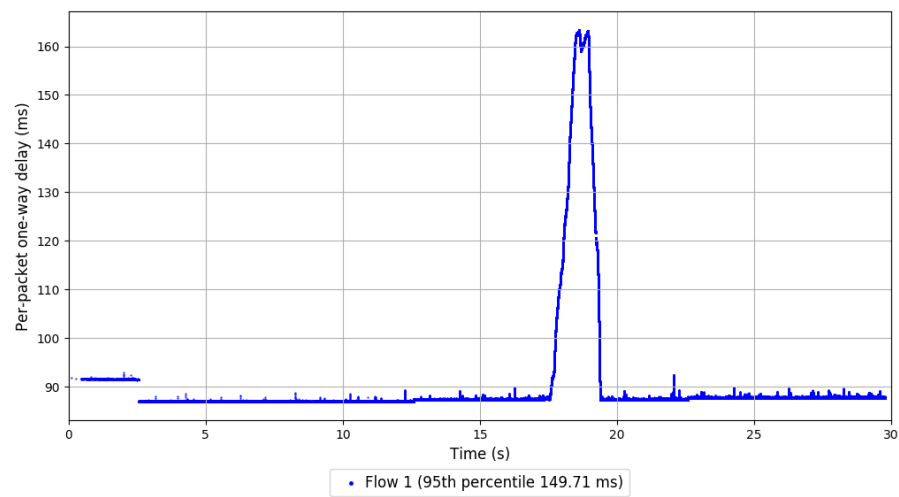
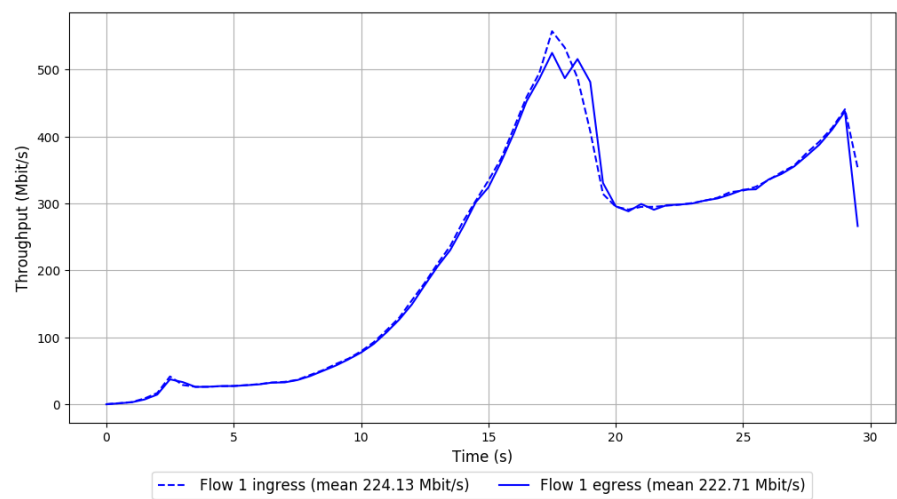
-- Flow 1:

Average throughput: 222.71 Mbit/s

95th percentile per-packet one-way delay: 149.706 ms

Loss rate: 1.23%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-19 17:36:19

End at: 2018-02-19 17:36:49

Below is generated by plot.py at 2018-02-19 23:08:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 367.07 Mbit/s

95th percentile per-packet one-way delay: 97.166 ms

Loss rate: 0.52%

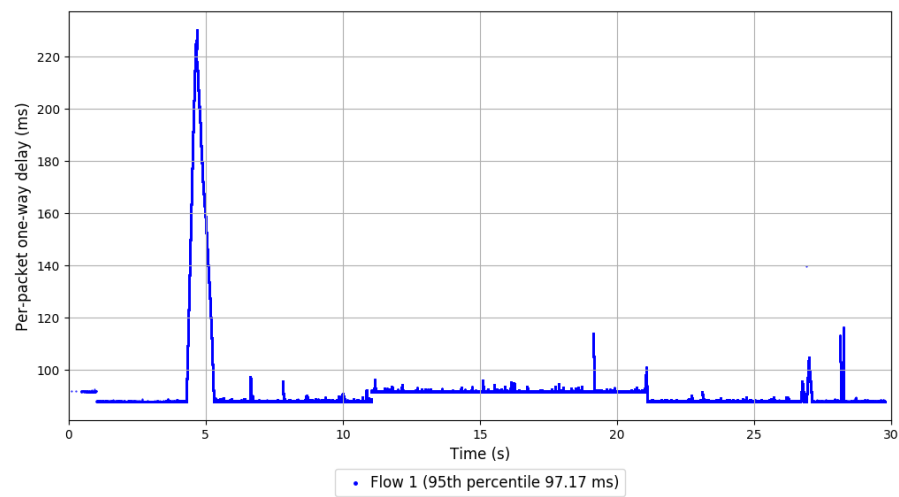
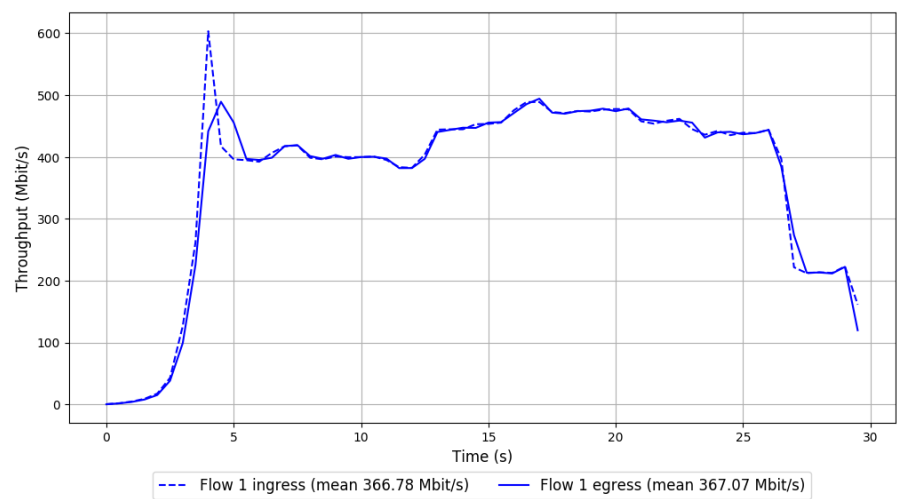
-- Flow 1:

Average throughput: 367.07 Mbit/s

95th percentile per-packet one-way delay: 97.166 ms

Loss rate: 0.52%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-19 17:51:34

End at: 2018-02-19 17:52:04

Below is generated by plot.py at 2018-02-19 23:09:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 375.84 Mbit/s

95th percentile per-packet one-way delay: 90.122 ms

Loss rate: 0.70%

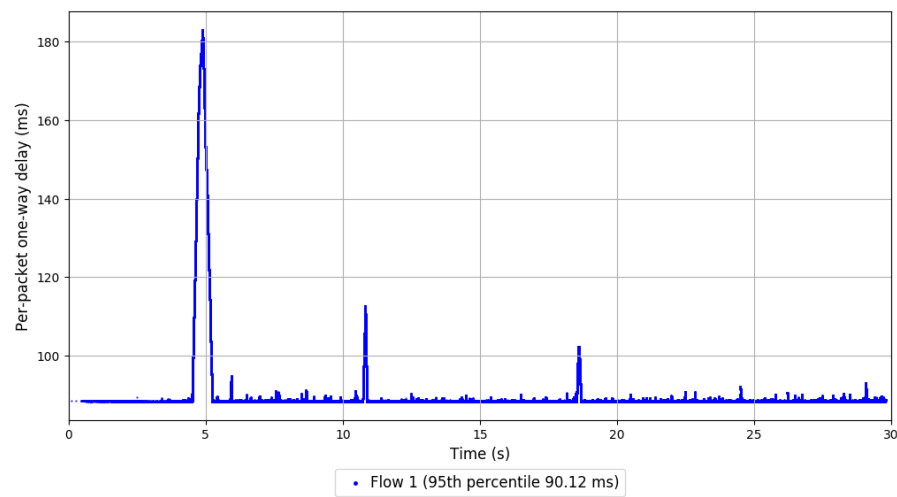
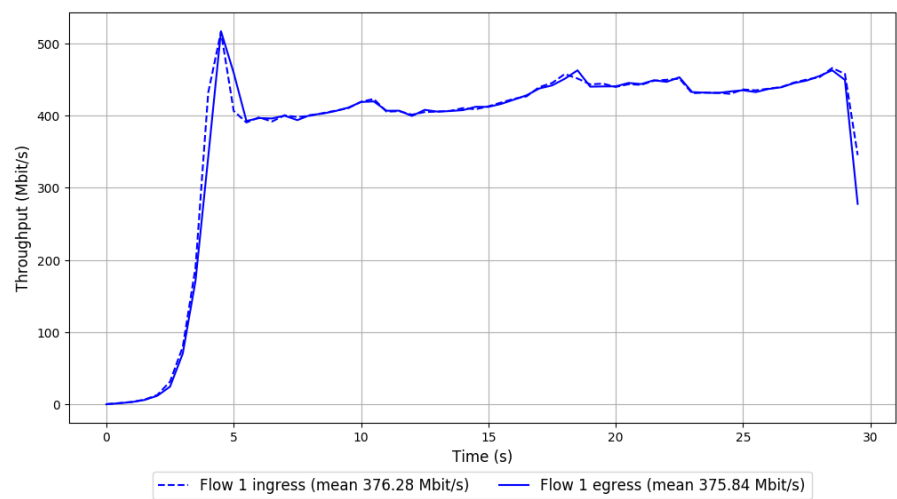
-- Flow 1:

Average throughput: 375.84 Mbit/s

95th percentile per-packet one-way delay: 90.122 ms

Loss rate: 0.70%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-19 18:06:53

End at: 2018-02-19 18:07:23

Below is generated by plot.py at 2018-02-19 23:13:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 388.83 Mbit/s

95th percentile per-packet one-way delay: 126.984 ms

Loss rate: 0.85%

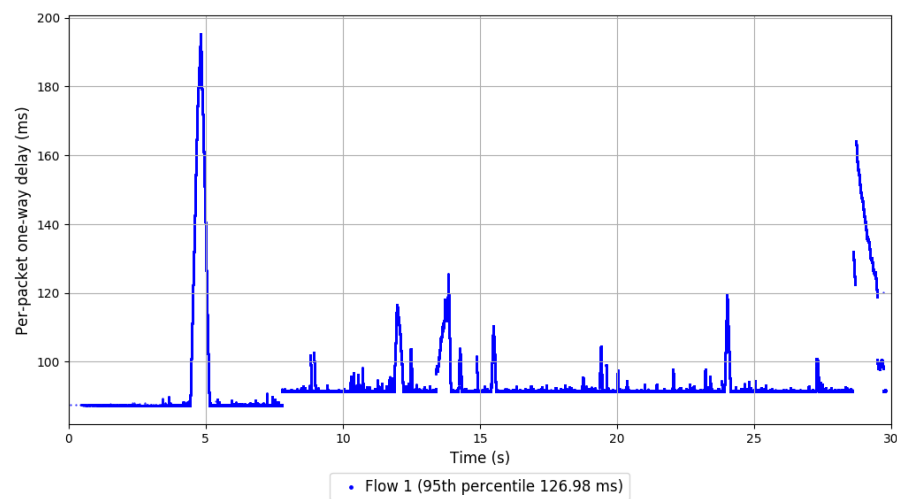
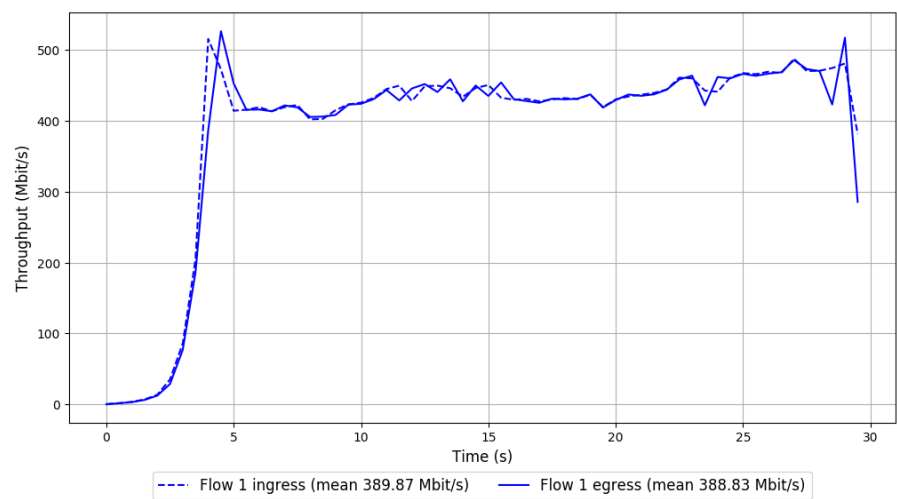
-- Flow 1:

Average throughput: 388.83 Mbit/s

95th percentile per-packet one-way delay: 126.984 ms

Loss rate: 0.85%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-19 18:22:23

End at: 2018-02-19 18:22:53

Below is generated by plot.py at 2018-02-19 23:13:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 396.38 Mbit/s

95th percentile per-packet one-way delay: 128.025 ms

Loss rate: 0.66%

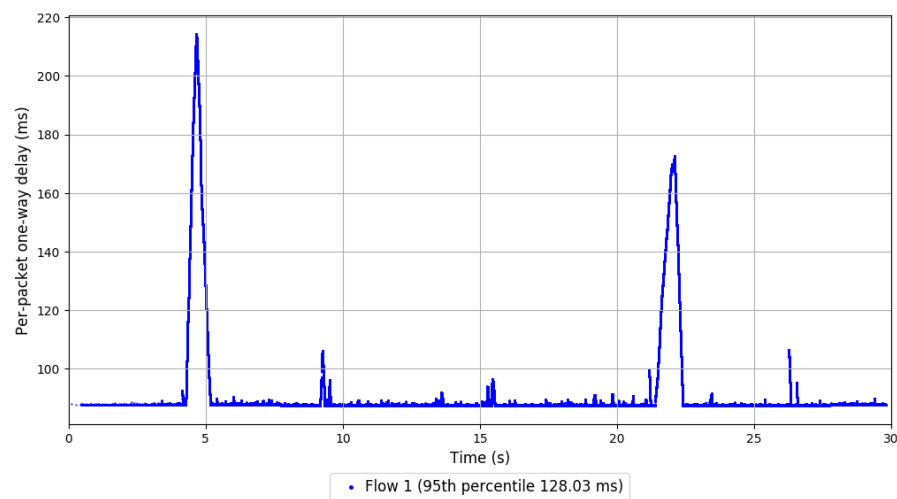
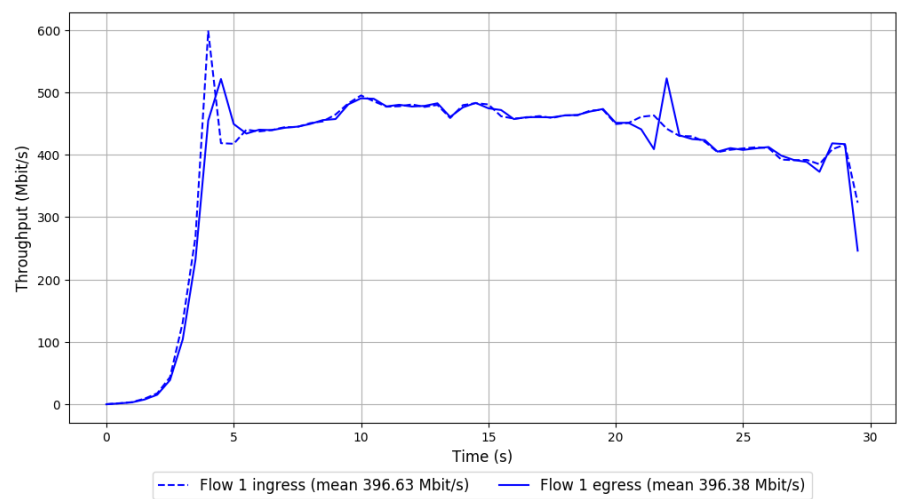
-- Flow 1:

Average throughput: 396.38 Mbit/s

95th percentile per-packet one-way delay: 128.025 ms

Loss rate: 0.66%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-19 18:37:48

End at: 2018-02-19 18:38:18

Below is generated by plot.py at 2018-02-19 23:13:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 381.37 Mbit/s

95th percentile per-packet one-way delay: 92.661 ms

Loss rate: 0.71%

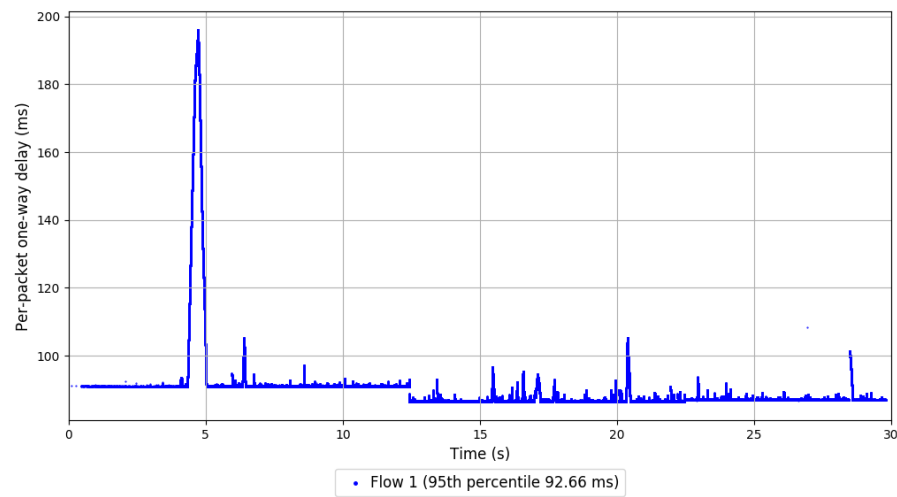
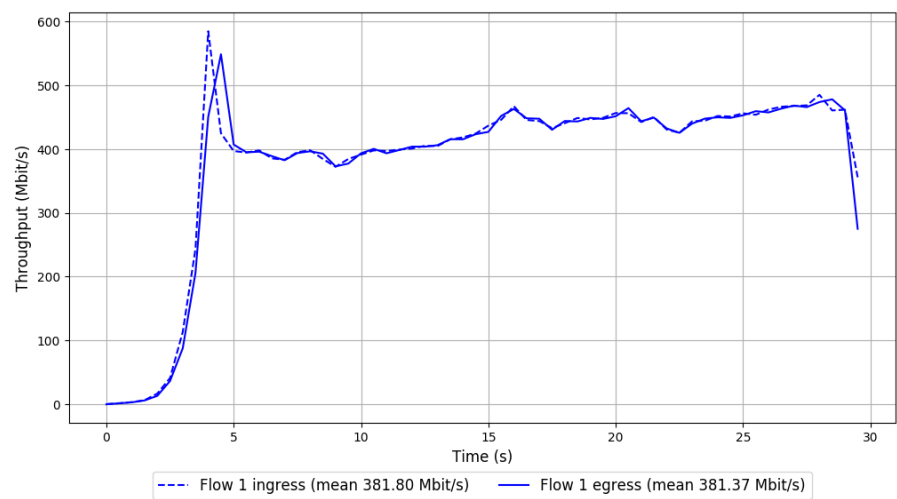
-- Flow 1:

Average throughput: 381.37 Mbit/s

95th percentile per-packet one-way delay: 92.661 ms

Loss rate: 0.71%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-19 18:53:57

End at: 2018-02-19 18:54:27

Below is generated by plot.py at 2018-02-19 23:14:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 400.02 Mbit/s

95th percentile per-packet one-way delay: 88.944 ms

Loss rate: 0.64%

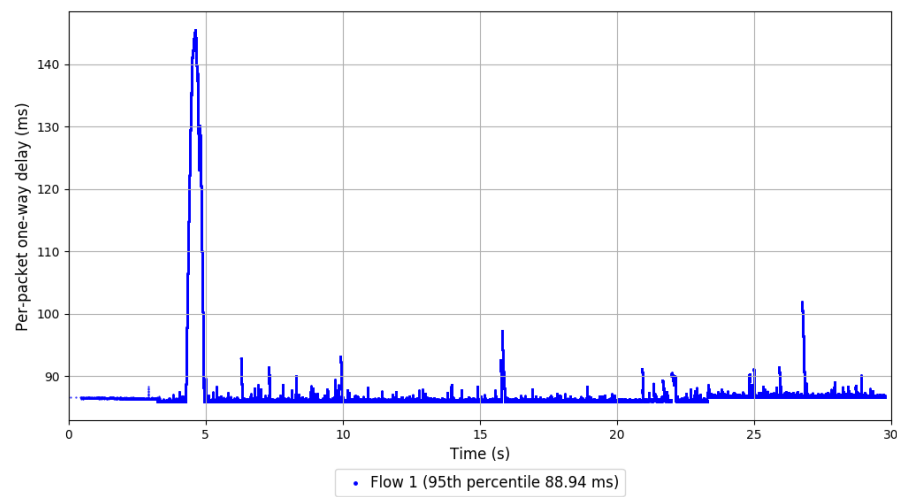
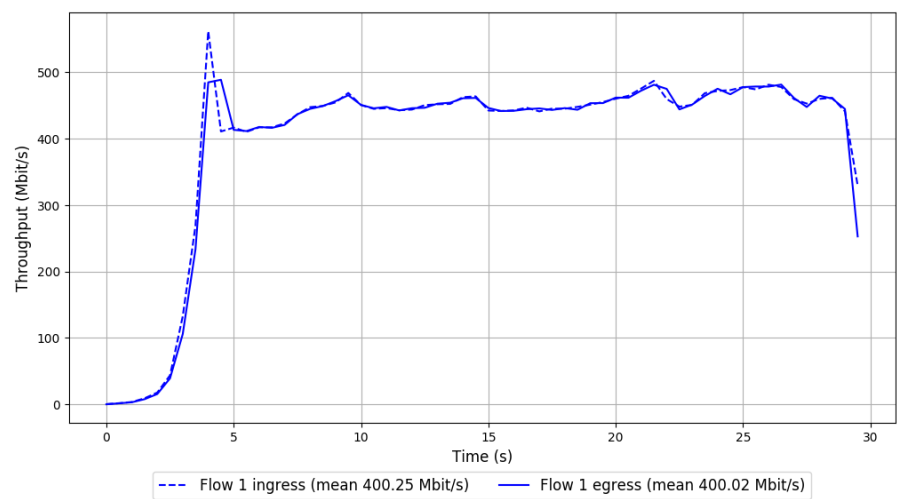
-- Flow 1:

Average throughput: 400.02 Mbit/s

95th percentile per-packet one-way delay: 88.944 ms

Loss rate: 0.64%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-19 19:09:16

End at: 2018-02-19 19:09:46

Below is generated by plot.py at 2018-02-19 23:14:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 356.44 Mbit/s

95th percentile per-packet one-way delay: 104.321 ms

Loss rate: 0.76%

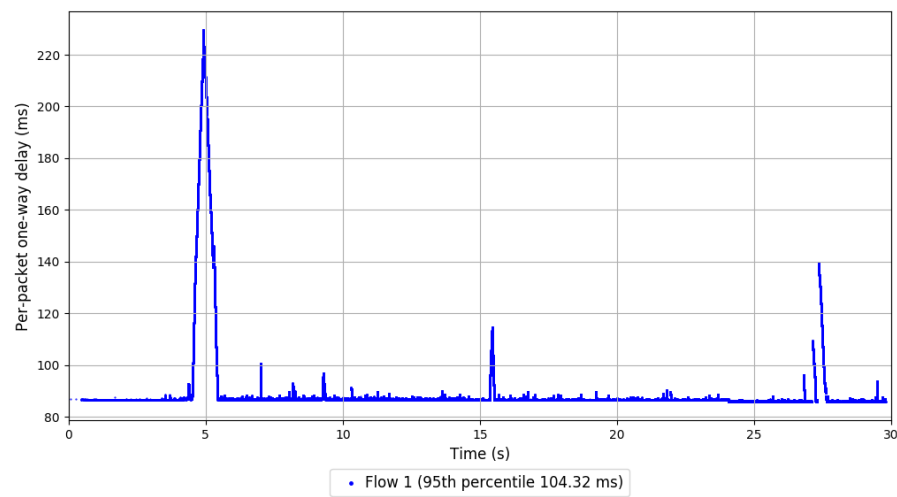
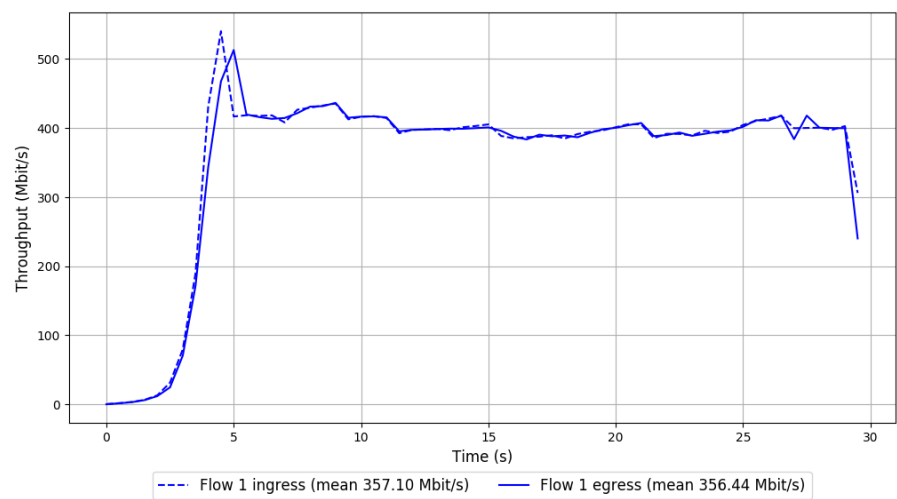
-- Flow 1:

Average throughput: 356.44 Mbit/s

95th percentile per-packet one-way delay: 104.321 ms

Loss rate: 0.76%

Run 10: Report of Vivace-latency — Data Link

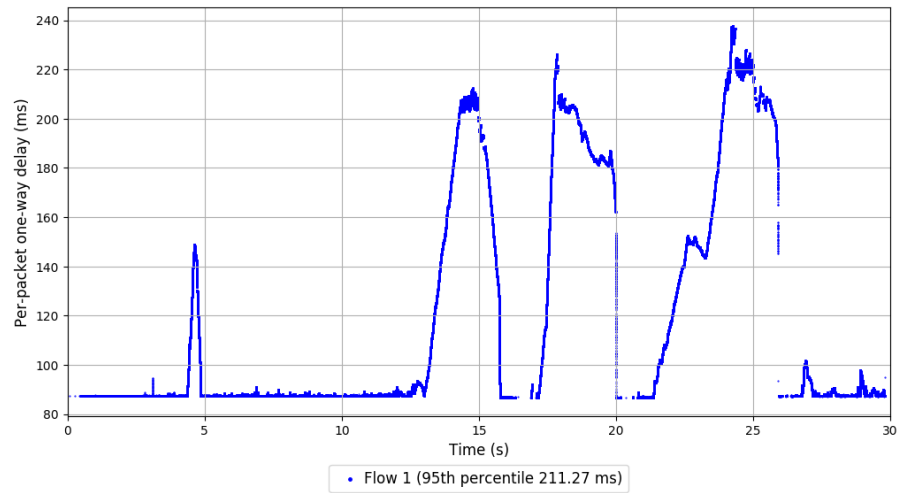
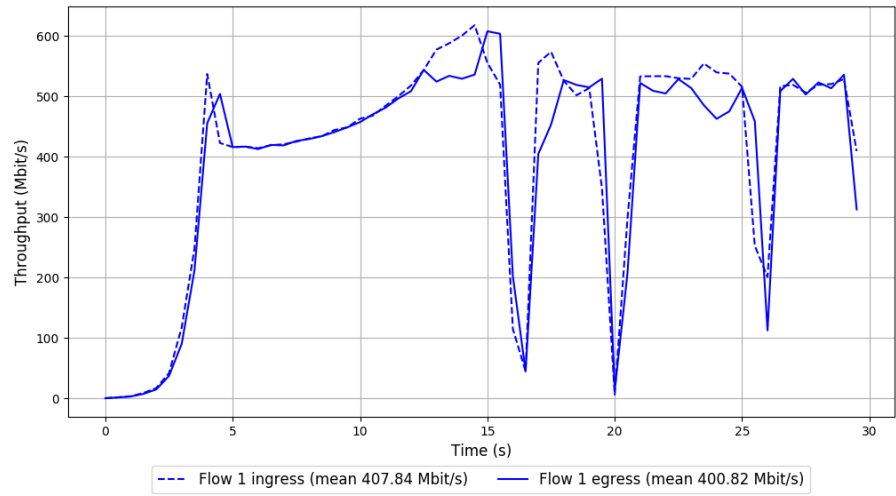


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-19 17:01:37
End at: 2018-02-19 17:02:07

# Below is generated by plot.py at 2018-02-19 23:15:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 400.82 Mbit/s
95th percentile per-packet one-way delay: 211.273 ms
Loss rate: 2.27%
-- Flow 1:
Average throughput: 400.82 Mbit/s
95th percentile per-packet one-way delay: 211.273 ms
Loss rate: 2.27%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-19 17:16:42

End at: 2018-02-19 17:17:12

Below is generated by plot.py at 2018-02-19 23:15:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 261.02 Mbit/s

95th percentile per-packet one-way delay: 211.195 ms

Loss rate: 2.18%

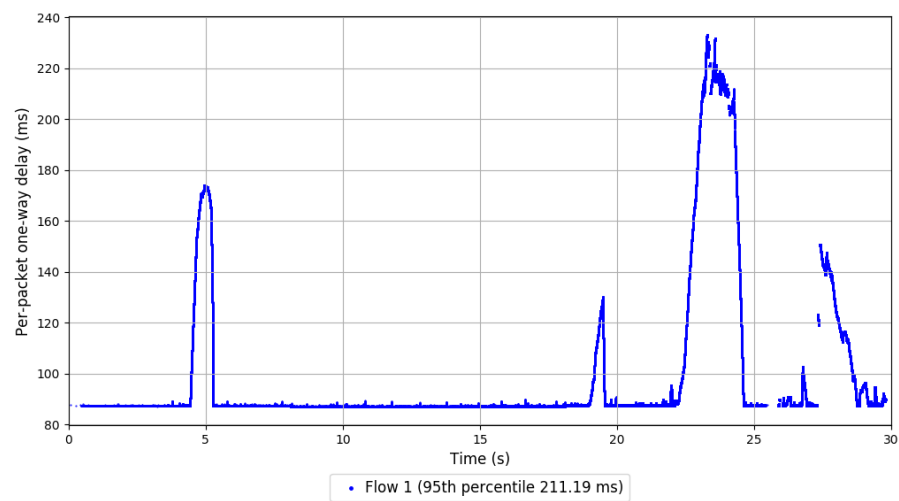
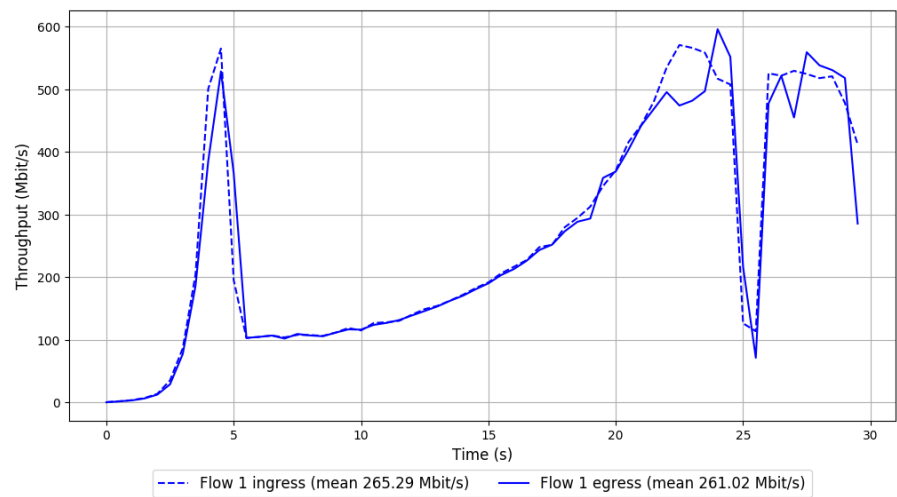
-- Flow 1:

Average throughput: 261.02 Mbit/s

95th percentile per-packet one-way delay: 211.195 ms

Loss rate: 2.18%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-19 17:31:36

End at: 2018-02-19 17:32:06

Below is generated by plot.py at 2018-02-19 23:15:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 298.78 Mbit/s

95th percentile per-packet one-way delay: 226.244 ms

Loss rate: 4.12%

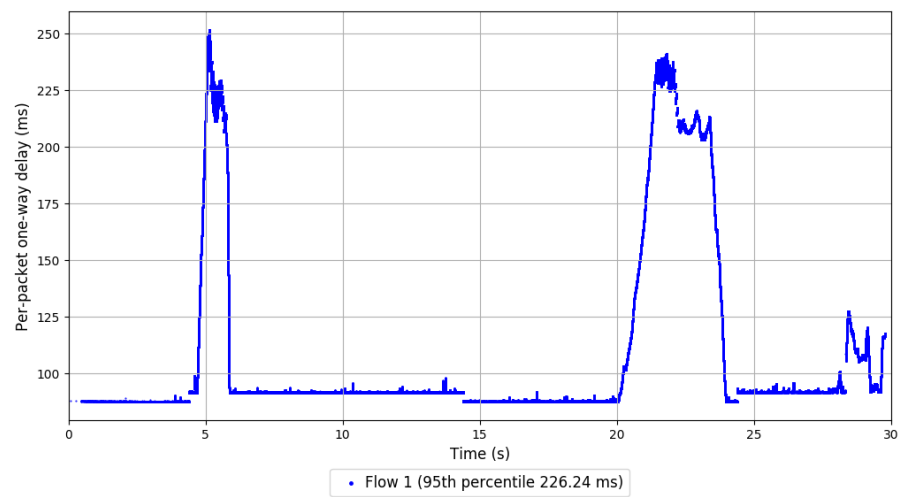
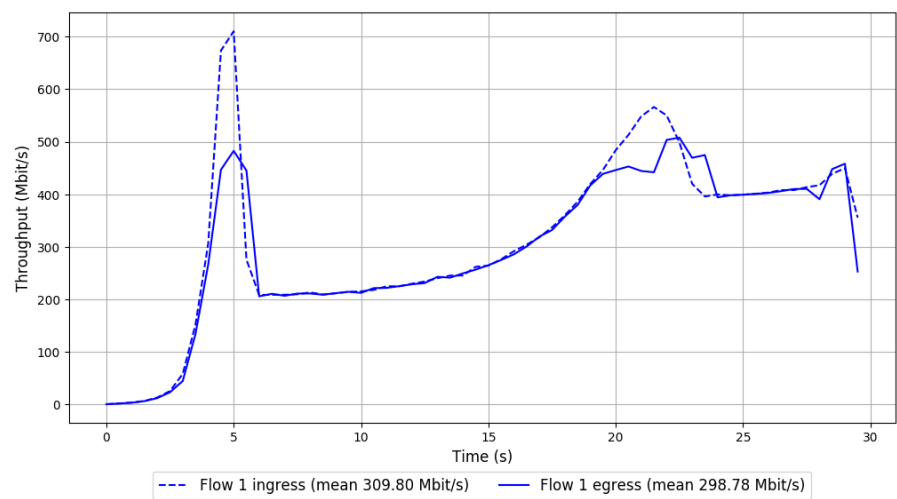
-- Flow 1:

Average throughput: 298.78 Mbit/s

95th percentile per-packet one-way delay: 226.244 ms

Loss rate: 4.12%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-19 17:46:38

End at: 2018-02-19 17:47:08

Below is generated by plot.py at 2018-02-19 23:19:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 370.28 Mbit/s

95th percentile per-packet one-way delay: 215.442 ms

Loss rate: 2.03%

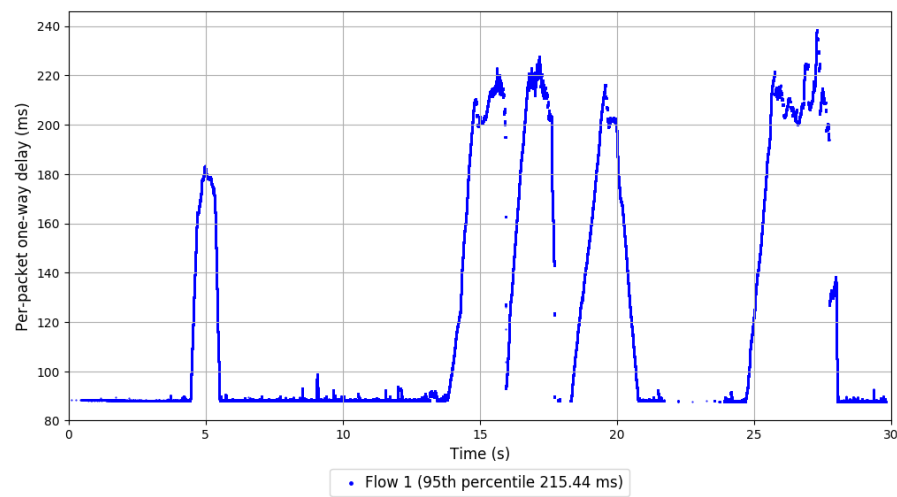
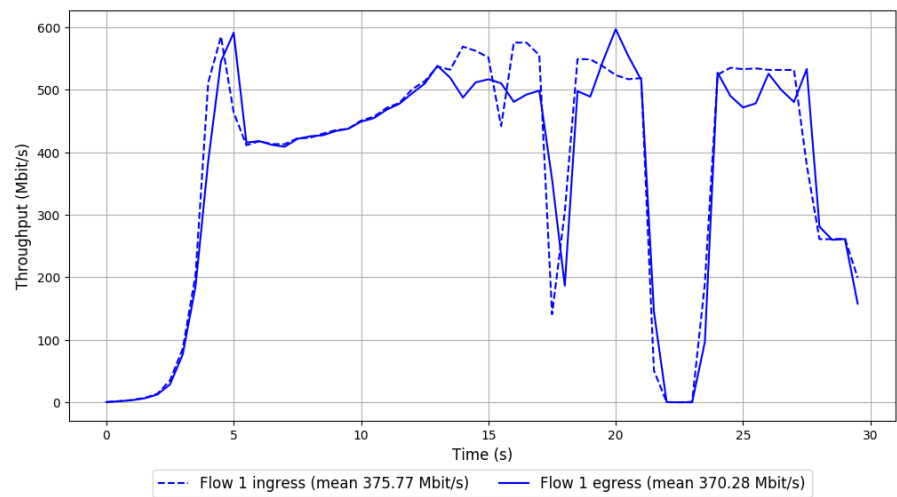
-- Flow 1:

Average throughput: 370.28 Mbit/s

95th percentile per-packet one-way delay: 215.442 ms

Loss rate: 2.03%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-19 18:02:02

End at: 2018-02-19 18:02:32

Below is generated by plot.py at 2018-02-19 23:19:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 290.44 Mbit/s

95th percentile per-packet one-way delay: 133.851 ms

Loss rate: 1.34%

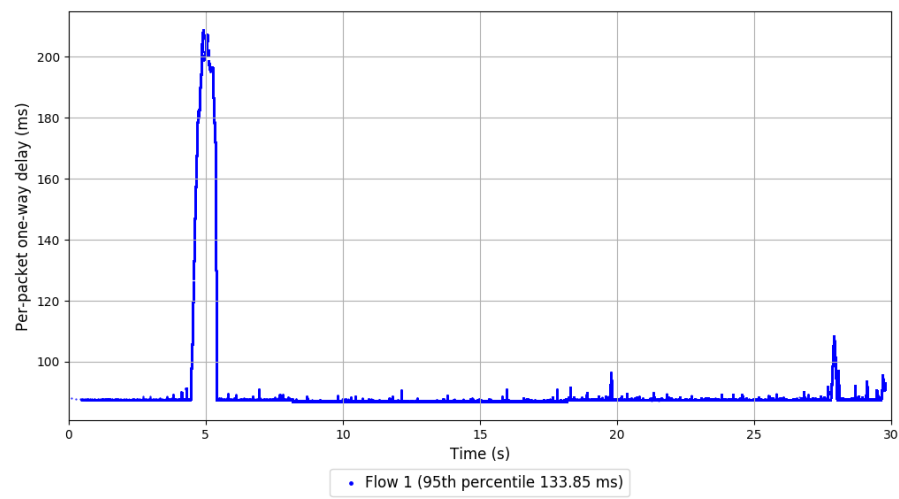
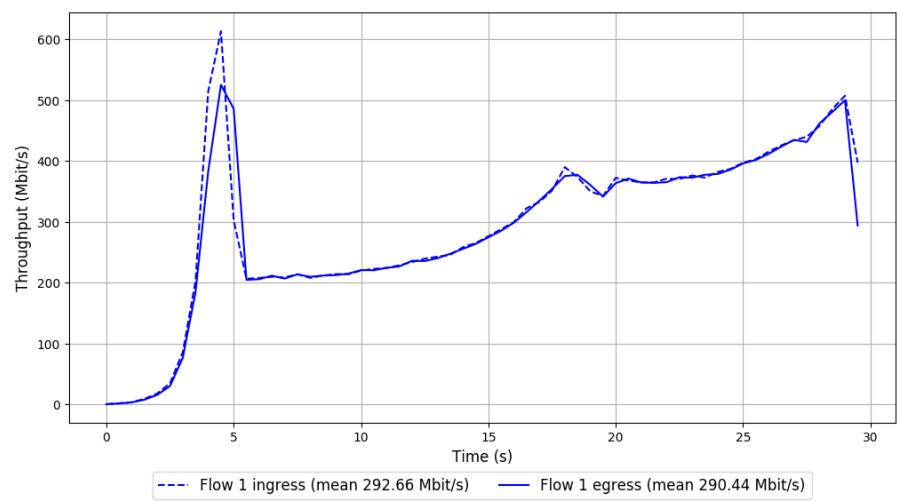
-- Flow 1:

Average throughput: 290.44 Mbit/s

95th percentile per-packet one-way delay: 133.851 ms

Loss rate: 1.34%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-19 18:17:22

End at: 2018-02-19 18:17:52

Below is generated by plot.py at 2018-02-19 23:19:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 374.23 Mbit/s

95th percentile per-packet one-way delay: 226.952 ms

Loss rate: 3.68%

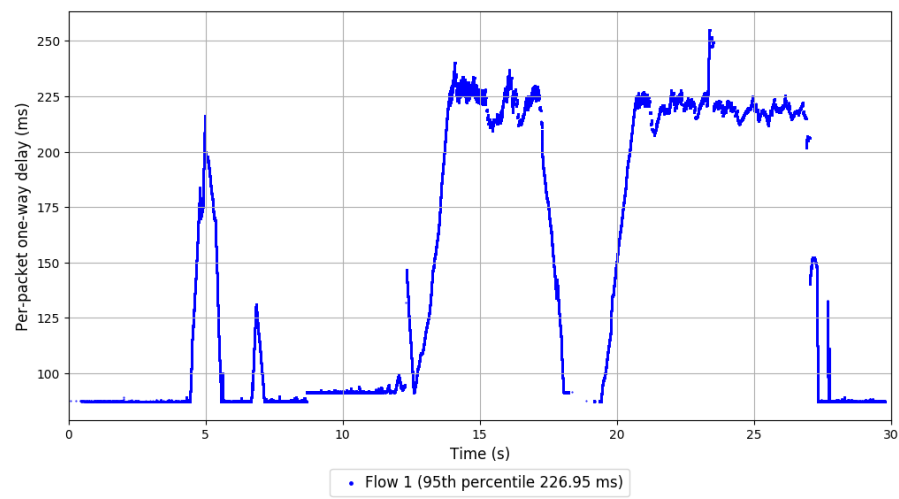
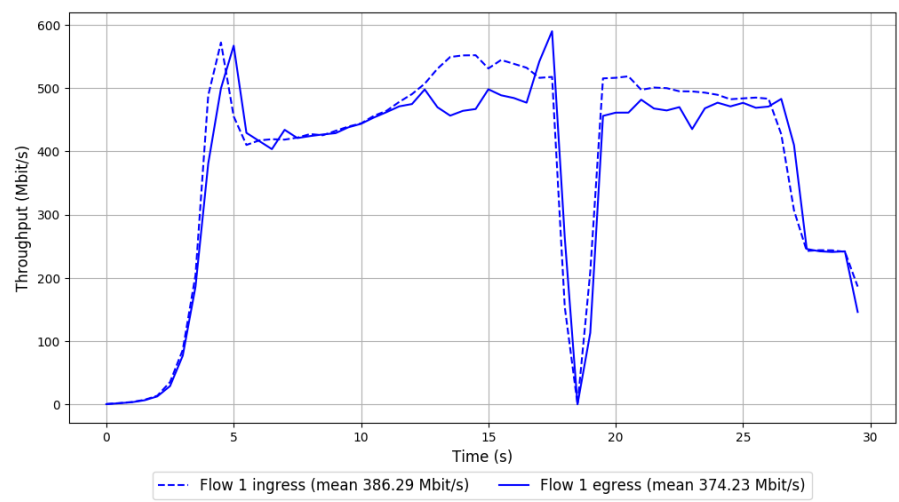
-- Flow 1:

Average throughput: 374.23 Mbit/s

95th percentile per-packet one-way delay: 226.952 ms

Loss rate: 3.68%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-19 18:32:50

End at: 2018-02-19 18:33:20

Below is generated by plot.py at 2018-02-19 23:19:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 295.30 Mbit/s

95th percentile per-packet one-way delay: 223.602 ms

Loss rate: 6.77%

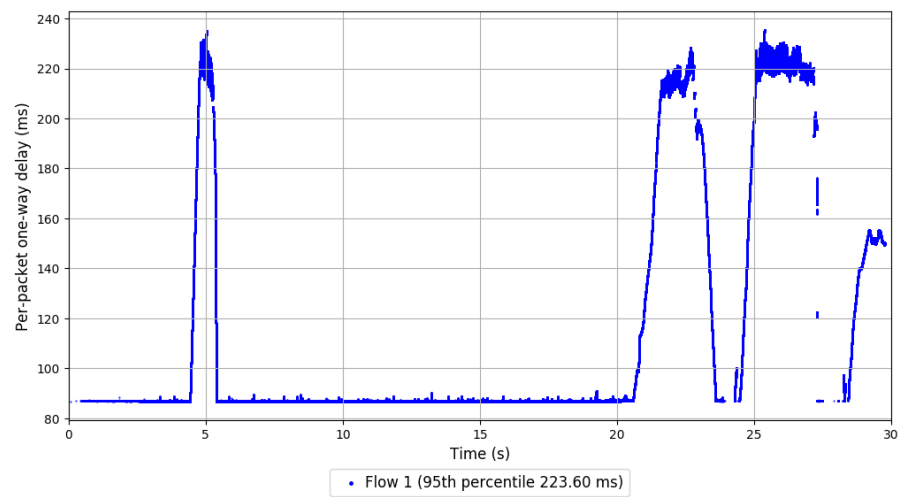
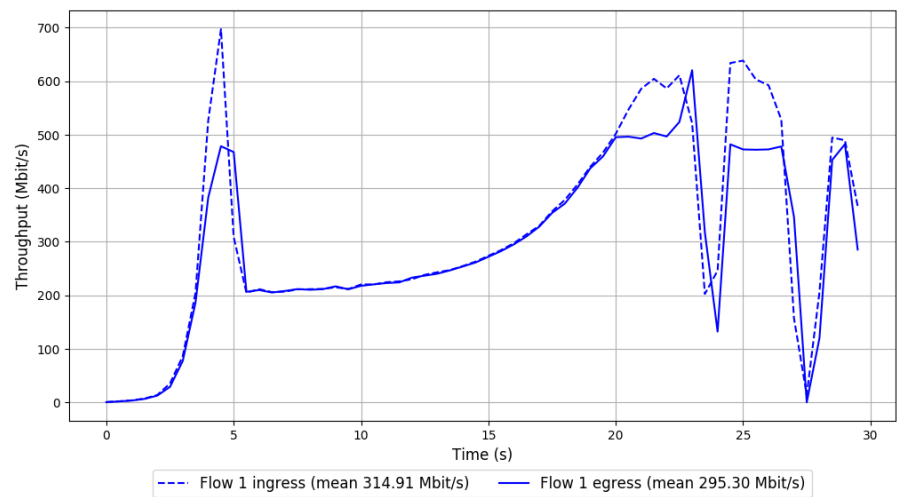
-- Flow 1:

Average throughput: 295.30 Mbit/s

95th percentile per-packet one-way delay: 223.602 ms

Loss rate: 6.77%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-19 18:48:33

End at: 2018-02-19 18:49:03

Below is generated by plot.py at 2018-02-19 23:21:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 404.36 Mbit/s

95th percentile per-packet one-way delay: 96.400 ms

Loss rate: 0.71%

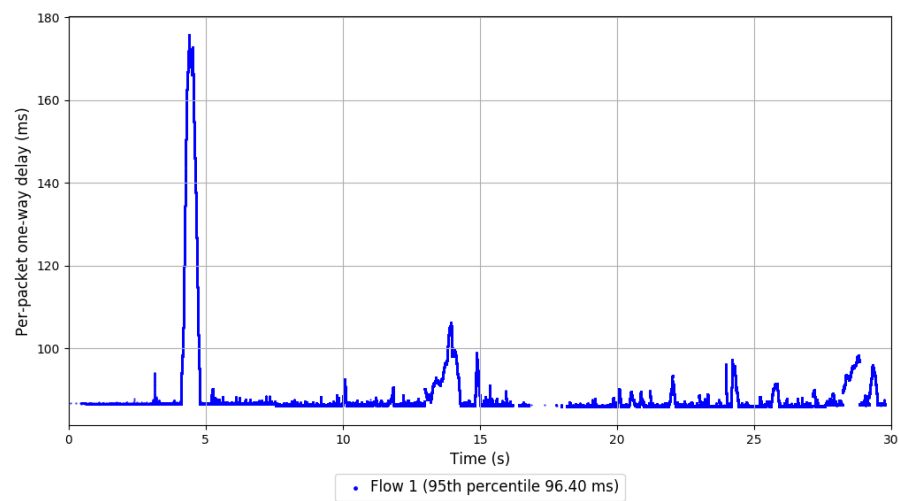
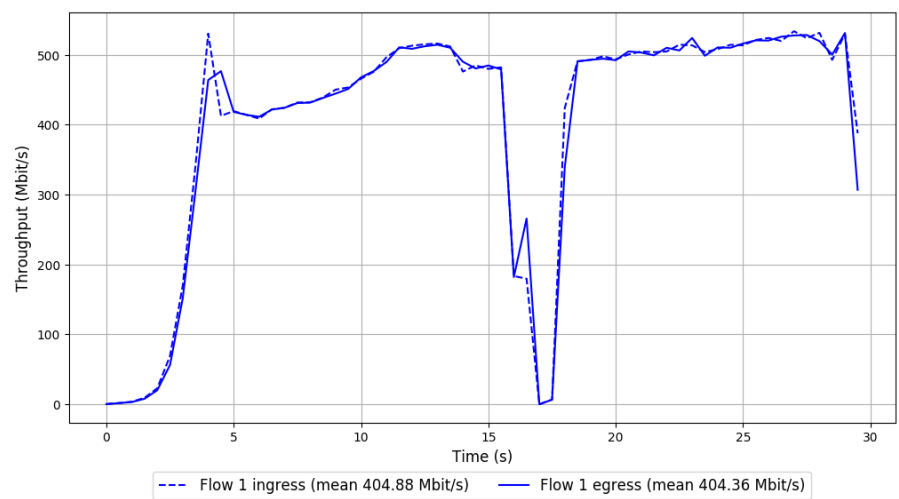
-- Flow 1:

Average throughput: 404.36 Mbit/s

95th percentile per-packet one-way delay: 96.400 ms

Loss rate: 0.71%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-19 19:04:32

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

Below is generated by plot.py at 2018-02-19 23:21:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 309.27 Mbit/s

95th percentile per-packet one-way delay: 213.530 ms

Loss rate: 6.88%

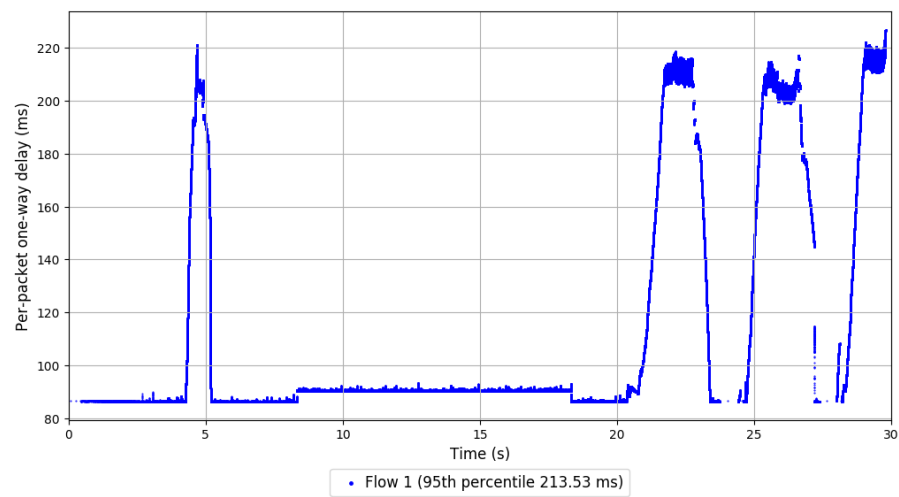
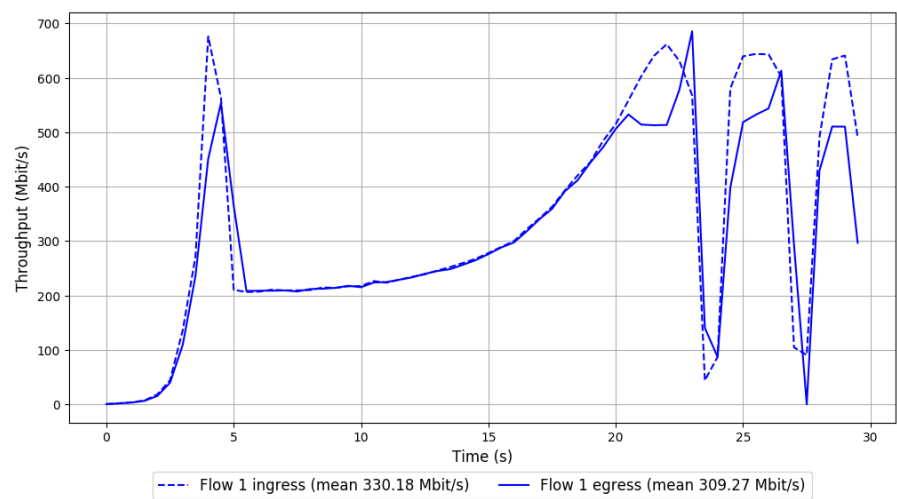
-- Flow 1:

Average throughput: 309.27 Mbit/s

95th percentile per-packet one-way delay: 213.530 ms

Loss rate: 6.88%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-19 19:19:29

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

Below is generated by plot.py at 2018-02-19 23:22:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 378.29 Mbit/s

95th percentile per-packet one-way delay: 221.084 ms

Loss rate: 6.40%

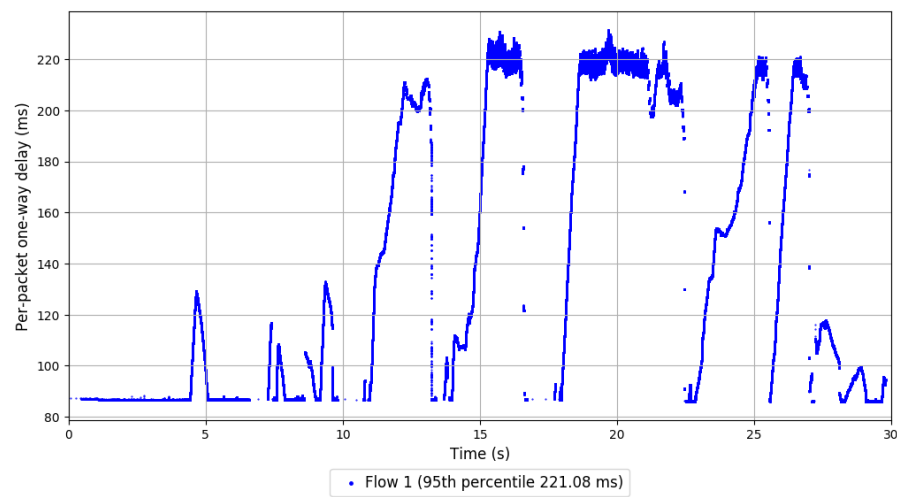
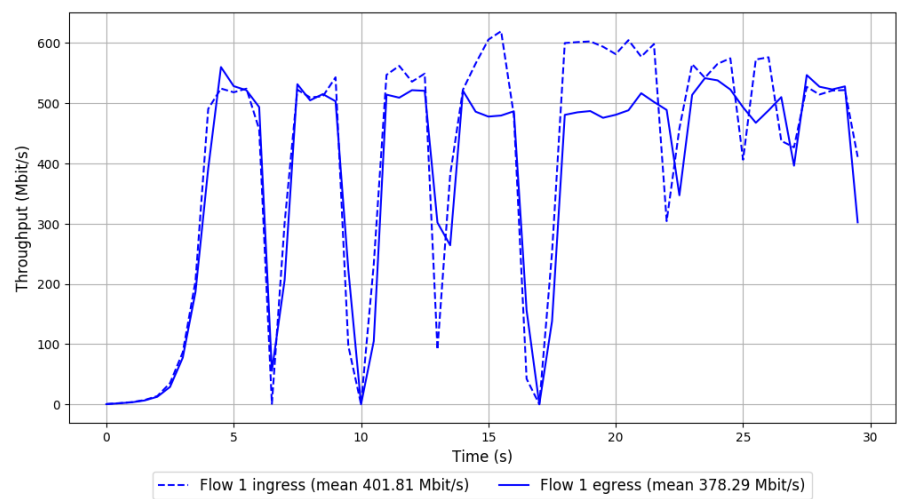
-- Flow 1:

Average throughput: 378.29 Mbit/s

95th percentile per-packet one-way delay: 221.084 ms

Loss rate: 6.40%

Run 10: Report of Vivace-loss — Data Link

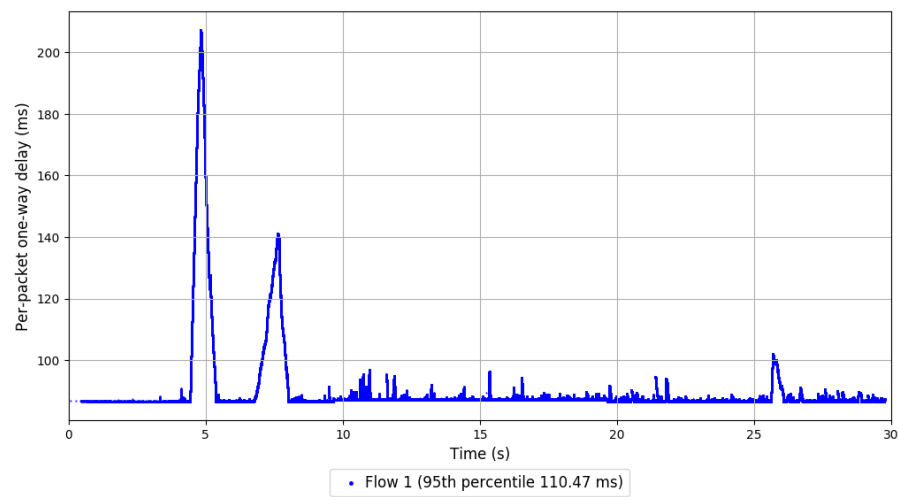
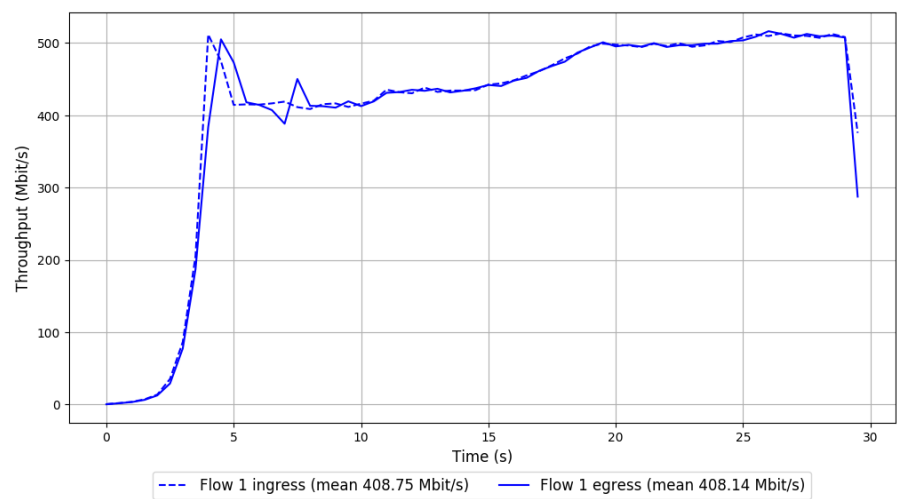


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-19 16:58:51
End at: 2018-02-19 16:59:21

# Below is generated by plot.py at 2018-02-19 23:23:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 408.14 Mbit/s
95th percentile per-packet one-way delay: 110.475 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 408.14 Mbit/s
95th percentile per-packet one-way delay: 110.475 ms
Loss rate: 0.73%
```


Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-19 17:13:58

End at: 2018-02-19 17:14:28

Below is generated by plot.py at 2018-02-19 23:26:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 430.99 Mbit/s

95th percentile per-packet one-way delay: 92.512 ms

Loss rate: 0.69%

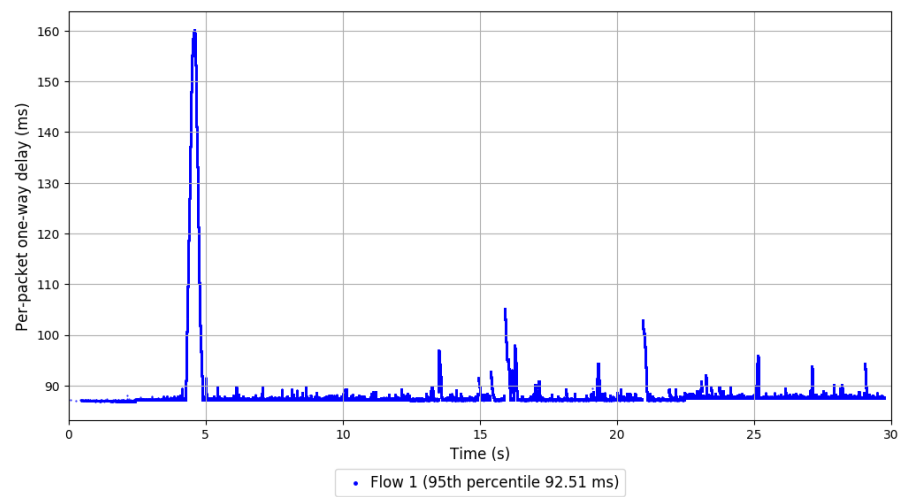
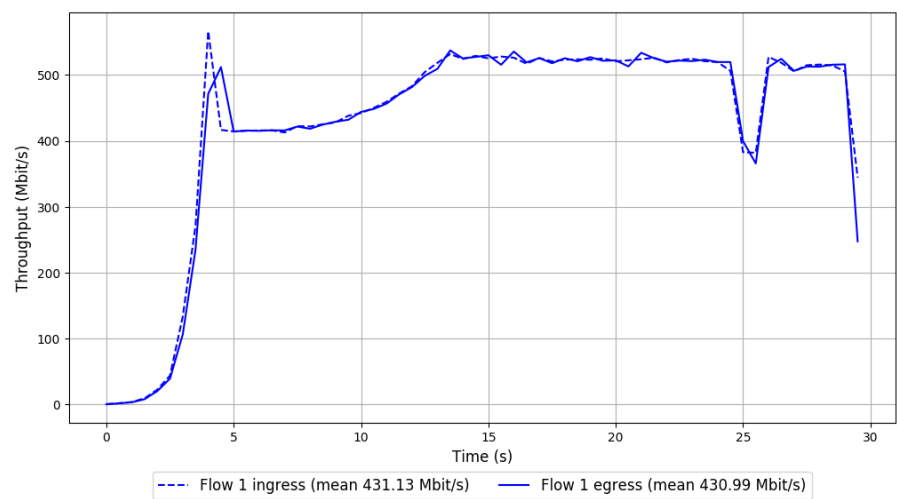
-- Flow 1:

Average throughput: 430.99 Mbit/s

95th percentile per-packet one-way delay: 92.512 ms

Loss rate: 0.69%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-19 17:28:50

End at: 2018-02-19 17:29:20

Below is generated by plot.py at 2018-02-19 23:26:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 405.20 Mbit/s

95th percentile per-packet one-way delay: 182.967 ms

Loss rate: 0.74%

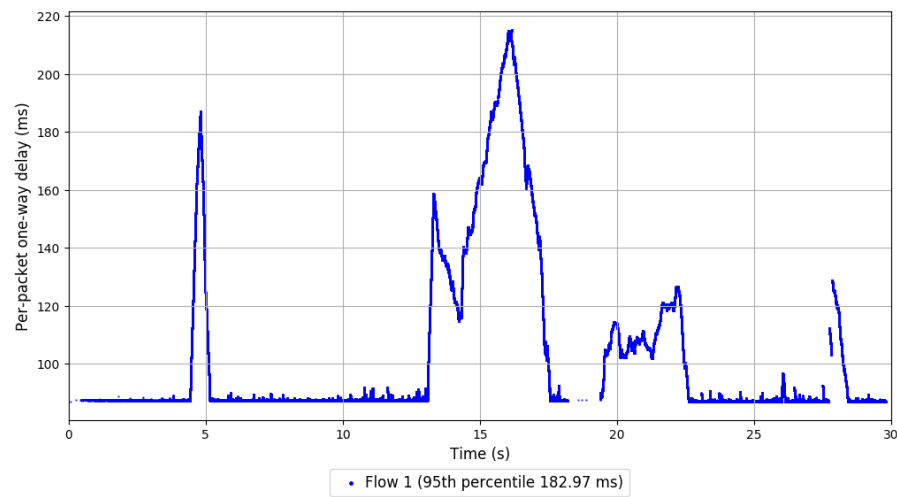
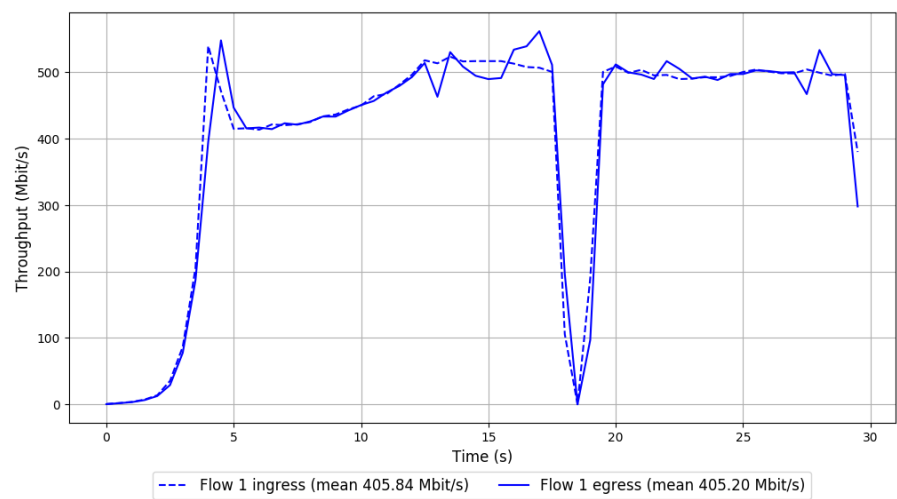
-- Flow 1:

Average throughput: 405.20 Mbit/s

95th percentile per-packet one-way delay: 182.967 ms

Loss rate: 0.74%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-19 17:43:52

End at: 2018-02-19 17:44:22

Below is generated by plot.py at 2018-02-19 23:26:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 403.01 Mbit/s

95th percentile per-packet one-way delay: 96.304 ms

Loss rate: 1.08%

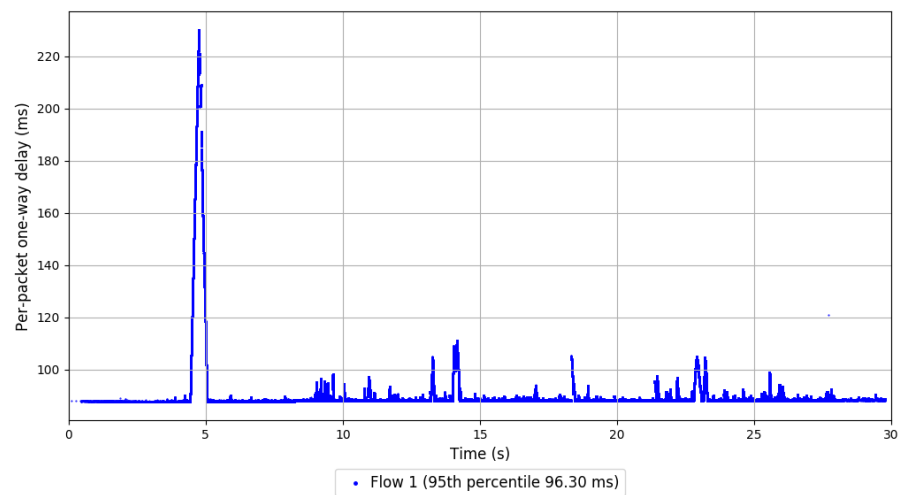
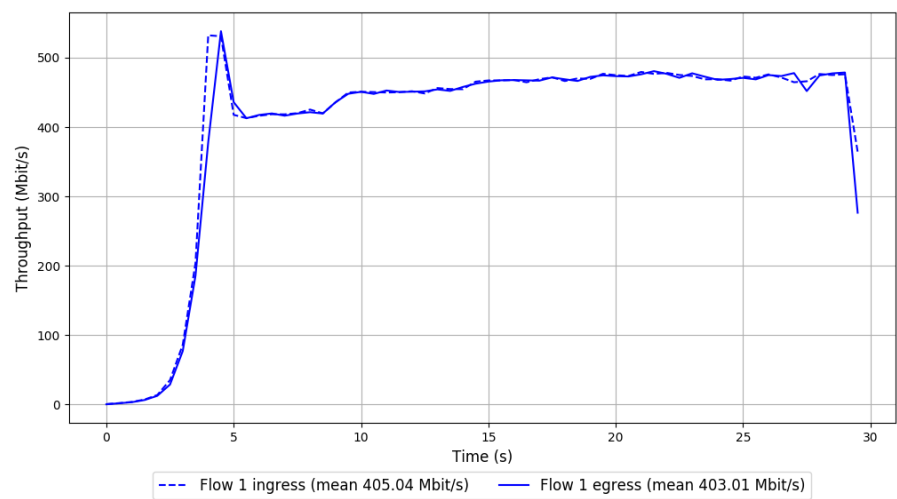
-- Flow 1:

Average throughput: 403.01 Mbit/s

95th percentile per-packet one-way delay: 96.304 ms

Loss rate: 1.08%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-19 17:59:17

End at: 2018-02-19 17:59:47

Below is generated by plot.py at 2018-02-19 23:26:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 366.81 Mbit/s

95th percentile per-packet one-way delay: 109.488 ms

Loss rate: 0.62%

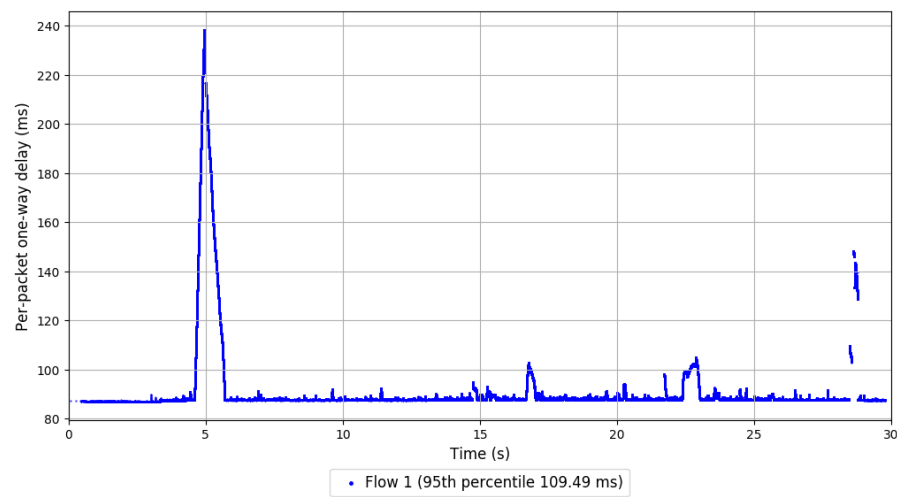
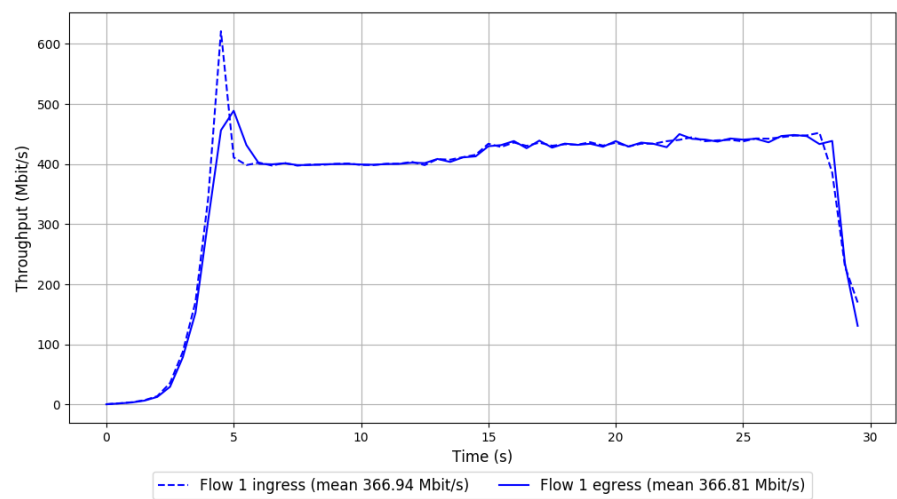
-- Flow 1:

Average throughput: 366.81 Mbit/s

95th percentile per-packet one-way delay: 109.488 ms

Loss rate: 0.62%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-19 18:14:36

End at: 2018-02-19 18:15:06

Below is generated by plot.py at 2018-02-19 23:27:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 416.85 Mbit/s

95th percentile per-packet one-way delay: 136.600 ms

Loss rate: 0.83%

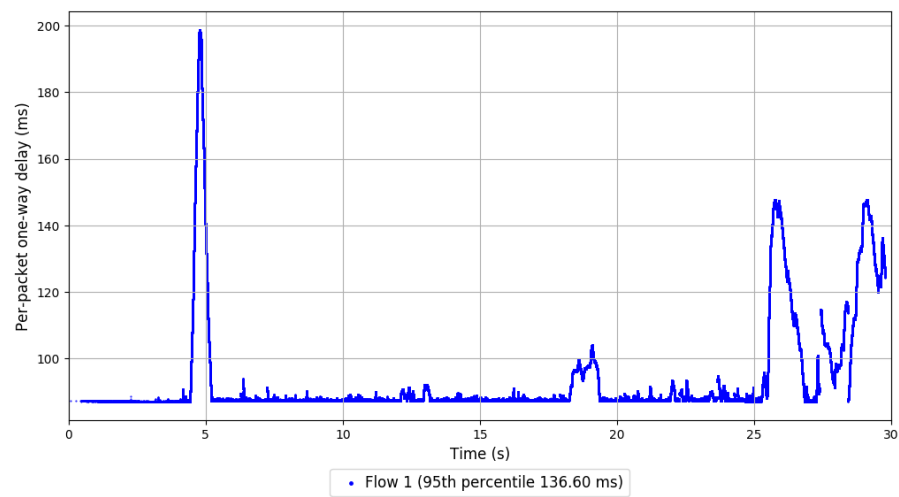
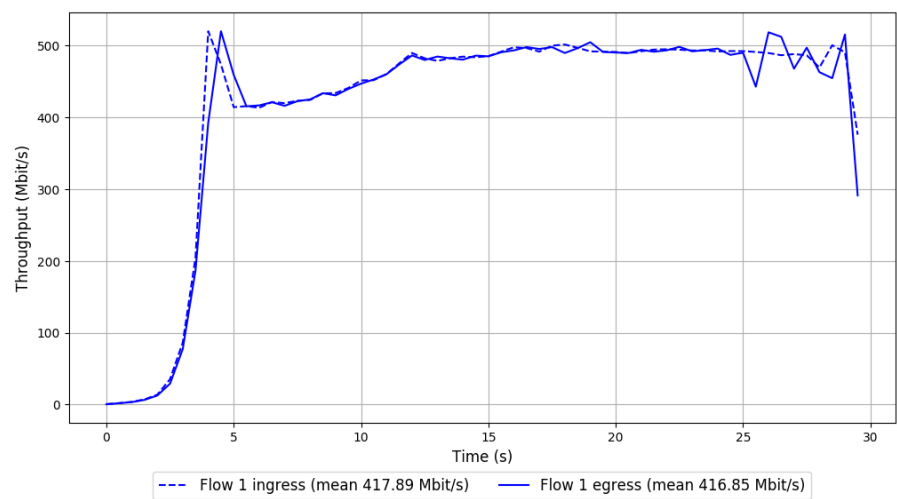
-- Flow 1:

Average throughput: 416.85 Mbit/s

95th percentile per-packet one-way delay: 136.600 ms

Loss rate: 0.83%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-19 18:30:05

End at: 2018-02-19 18:30:35

Below is generated by plot.py at 2018-02-19 23:27:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 398.61 Mbit/s

95th percentile per-packet one-way delay: 98.648 ms

Loss rate: 0.70%

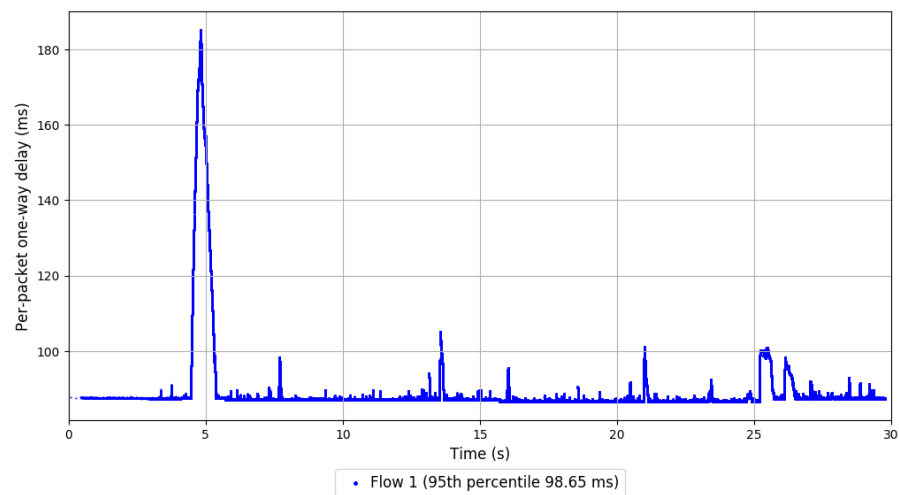
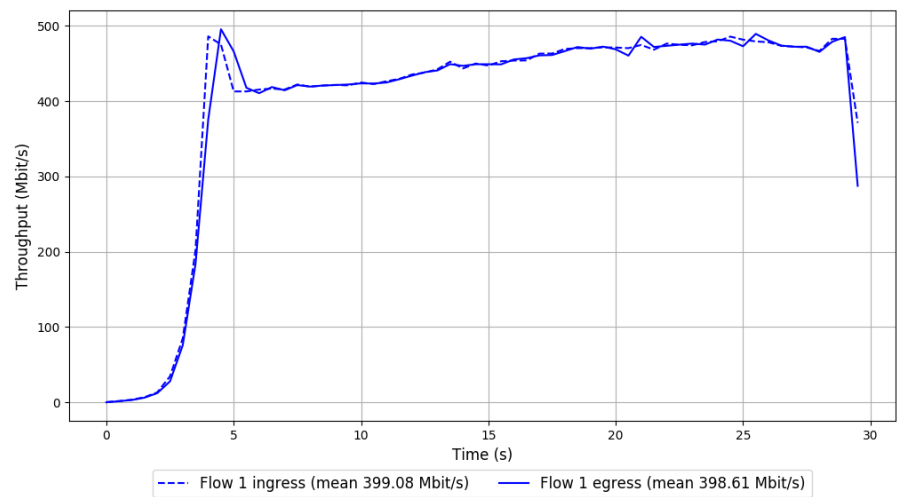
-- Flow 1:

Average throughput: 398.61 Mbit/s

95th percentile per-packet one-way delay: 98.648 ms

Loss rate: 0.70%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-19 18:45:45

End at: 2018-02-19 18:46:15

Below is generated by plot.py at 2018-02-19 23:28:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 424.69 Mbit/s

95th percentile per-packet one-way delay: 207.134 ms

Loss rate: 0.80%

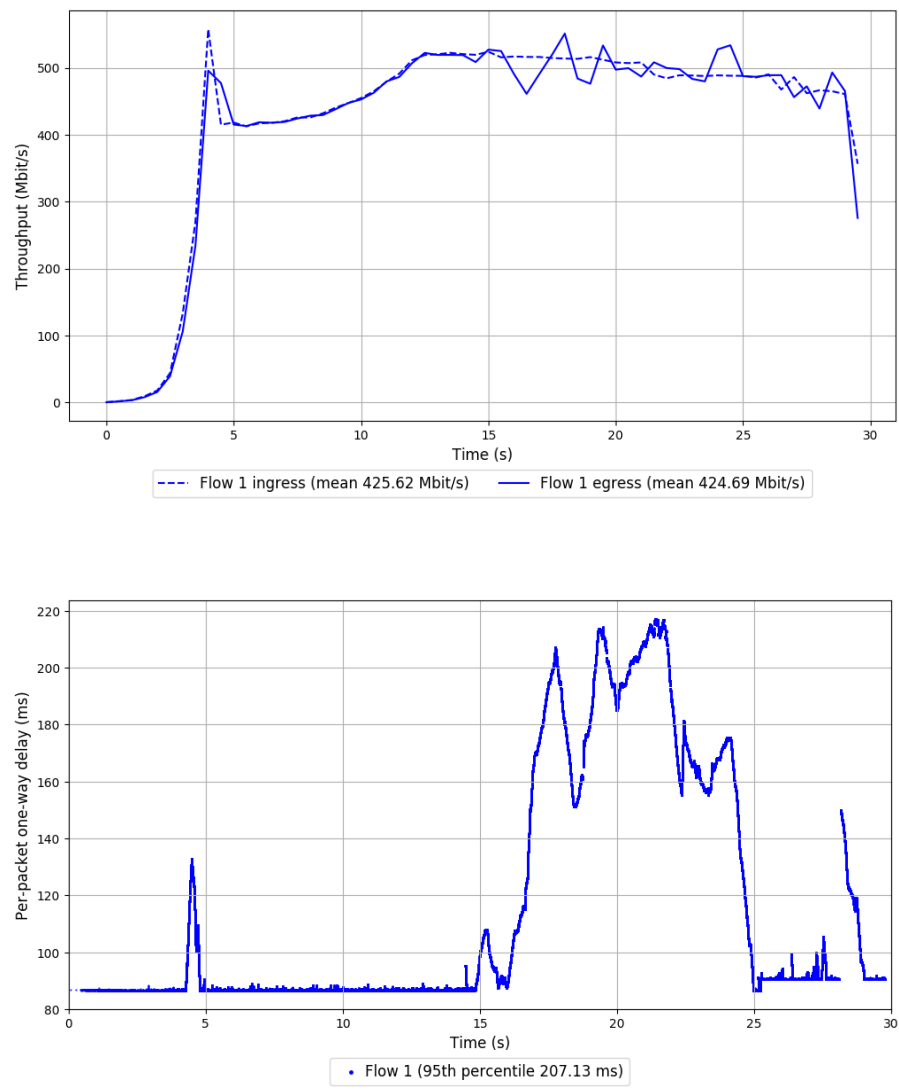
-- Flow 1:

Average throughput: 424.69 Mbit/s

95th percentile per-packet one-way delay: 207.134 ms

Loss rate: 0.80%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-19 19:01:46

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

Below is generated by plot.py at 2018-02-19 23:28:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 394.04 Mbit/s

95th percentile per-packet one-way delay: 131.793 ms

Loss rate: 0.74%

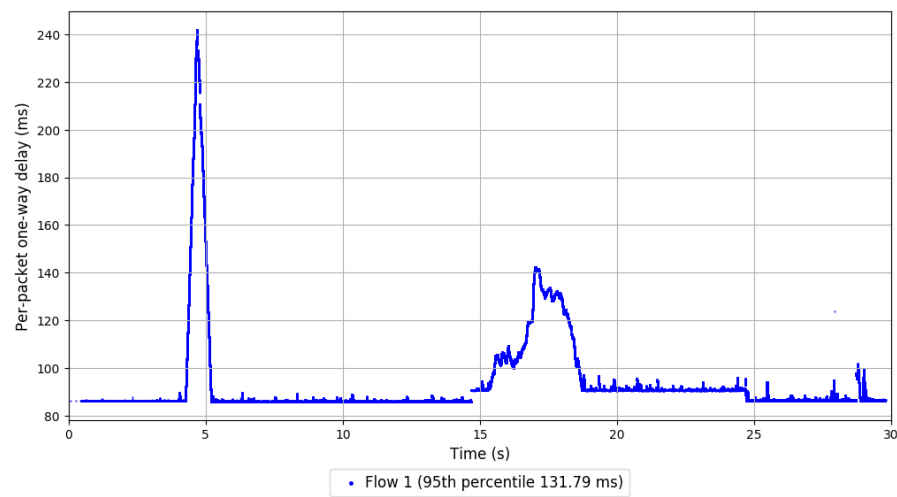
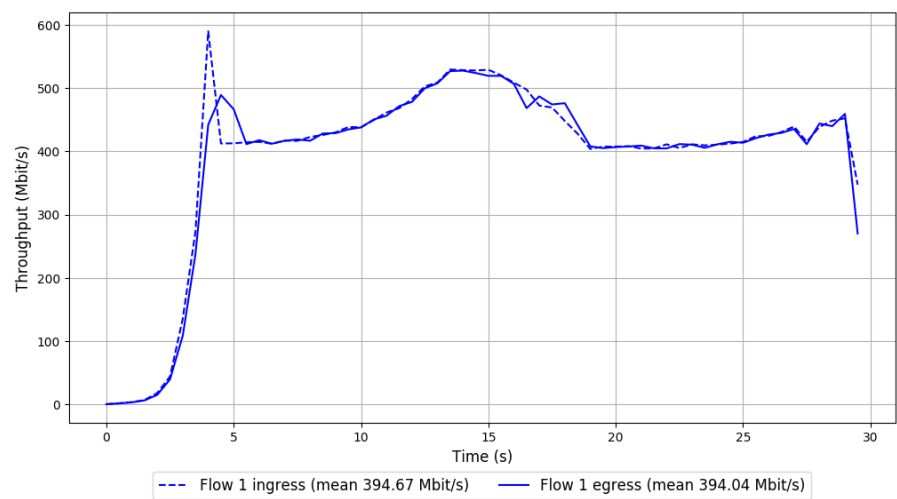
-- Flow 1:

Average throughput: 394.04 Mbit/s

95th percentile per-packet one-way delay: 131.793 ms

Loss rate: 0.74%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-19 19:16:42

End at: 2018-02-19 19:17:12

Below is generated by plot.py at 2018-02-19 23:28:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 418.50 Mbit/s

95th percentile per-packet one-way delay: 106.590 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 418.50 Mbit/s

95th percentile per-packet one-way delay: 106.590 ms

Loss rate: 0.71%

Run 10: Report of Vivace-LTE — Data Link

