

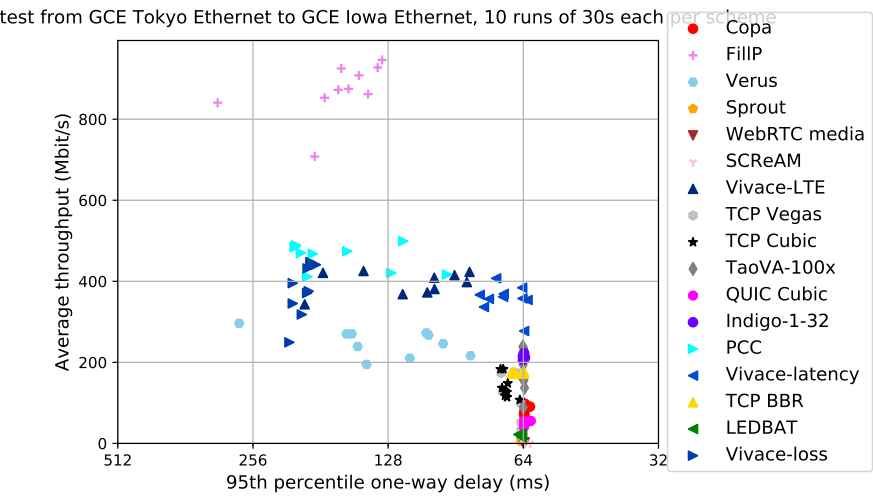
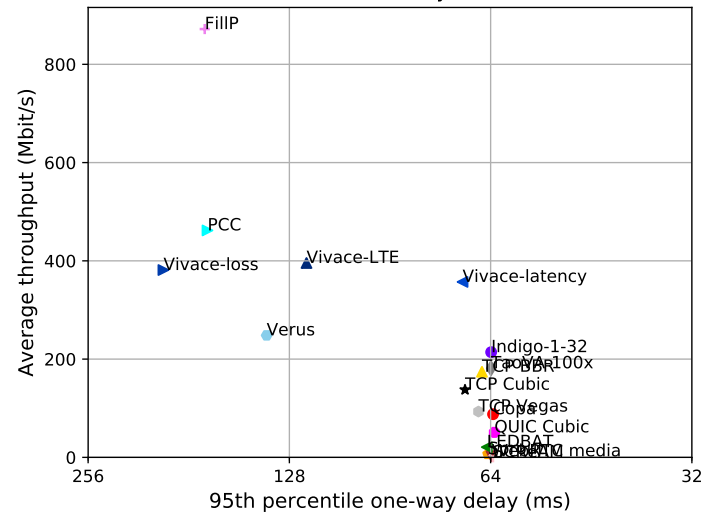
Pantheon Report

Generated at 2018-02-16 21:19:00 (UTC).
Data path: GCE Tokyo 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 @ cccb2d77344969a7bac1df6edf6c0cfb6c77a6f8
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 8400b8926887fc4cf8c795a1d7ce2c8ac041ec72
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 Tokyo Ethernet to GCE Iowa Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	174.26	65.94	0.41
TCP Cubic	10	137.60	69.90	0.40
LEDBAT	10	20.83	64.86	0.83
PCC	10	461.94	169.68	1.13
QUIC Cubic	10	50.90	63.19	0.67
SCReAM	10	0.22	63.50	0.38
WebRTC media	10	2.18	63.82	0.49
Sprout	10	6.55	64.60	0.48
TaoVA-100x	10	181.31	63.93	0.60
TCP Vegas	10	93.25	66.74	0.40
Verus	10	248.31	138.43	1.17
Copa	10	87.84	63.47	0.32
FillP	10	871.78	171.32	6.48
Indigo-1-32	10	214.14	63.88	0.44
Vivace-latency	10	357.09	70.51	0.62
Vivace-loss	10	381.30	197.51	4.01
Vivace-LTE	10	395.70	120.67	0.73

Run 1: Statistics of TCP BBR

Start at: 2018-02-16 14:44:35

End at: 2018-02-16 14:45:05

Below is generated by plot.py at 2018-02-16 19:50:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.99 Mbit/s

95th percentile per-packet one-way delay: 66.733 ms

Loss rate: 0.54%

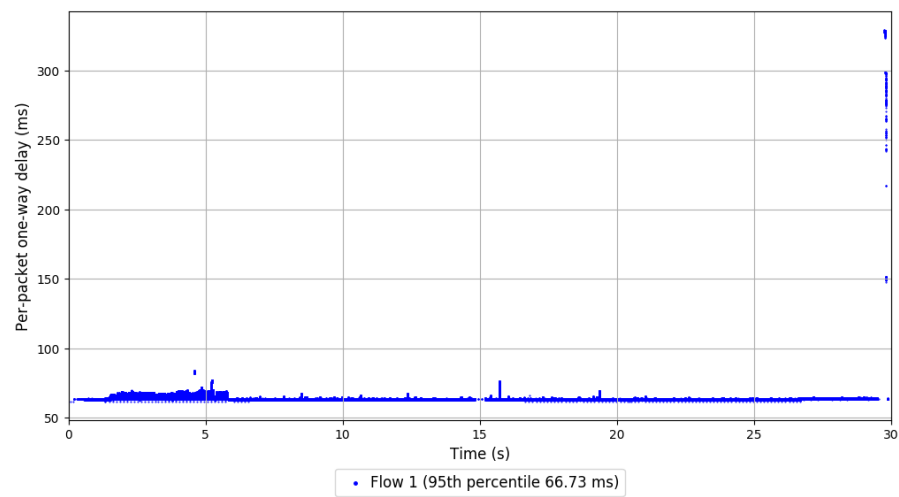
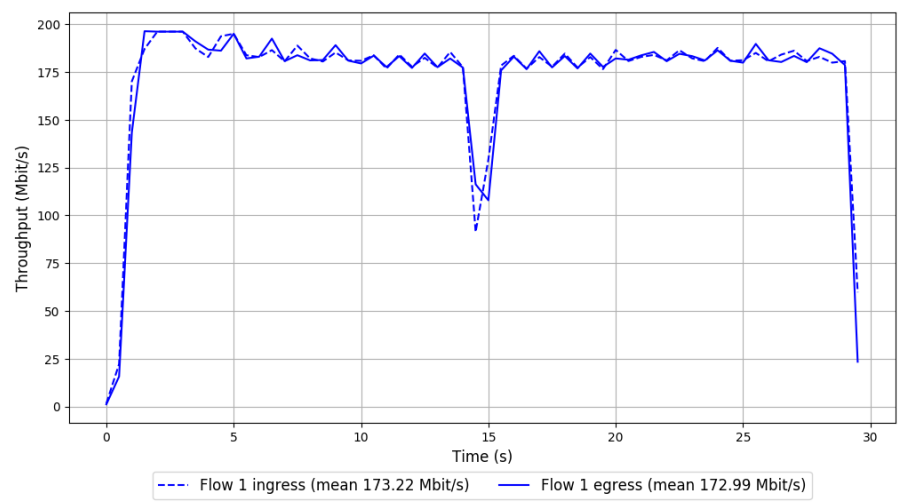
-- Flow 1:

Average throughput: 172.99 Mbit/s

95th percentile per-packet one-way delay: 66.733 ms

Loss rate: 0.54%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-16 14:59:40

End at: 2018-02-16 15:00:10

Below is generated by plot.py at 2018-02-16 19:50:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 177.51 Mbit/s

95th percentile per-packet one-way delay: 63.871 ms

Loss rate: 0.45%

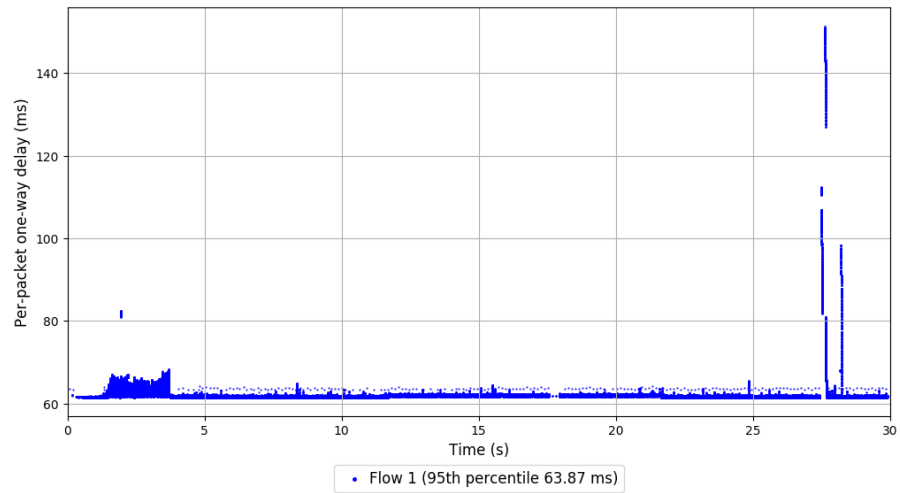
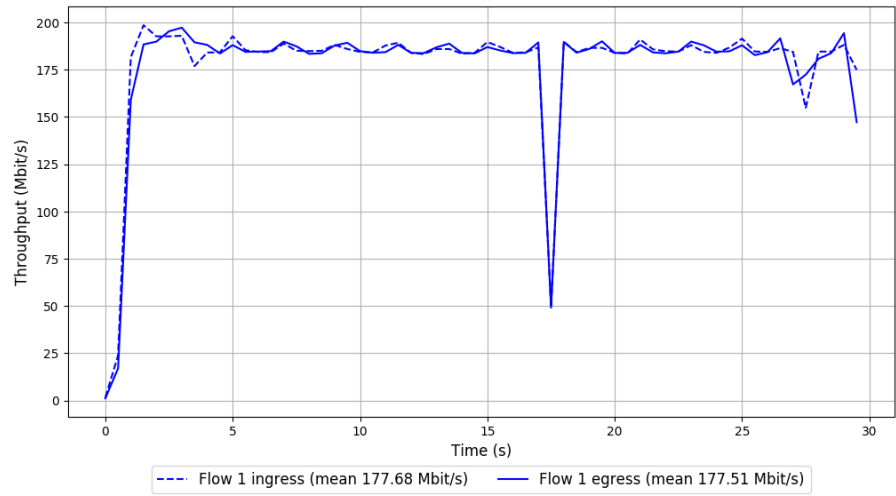
-- Flow 1:

Average throughput: 177.51 Mbit/s

95th percentile per-packet one-way delay: 63.871 ms

Loss rate: 0.45%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-16 15:14:46

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

Below is generated by plot.py at 2018-02-16 19:50:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.80 Mbit/s

95th percentile per-packet one-way delay: 63.914 ms

Loss rate: 0.45%

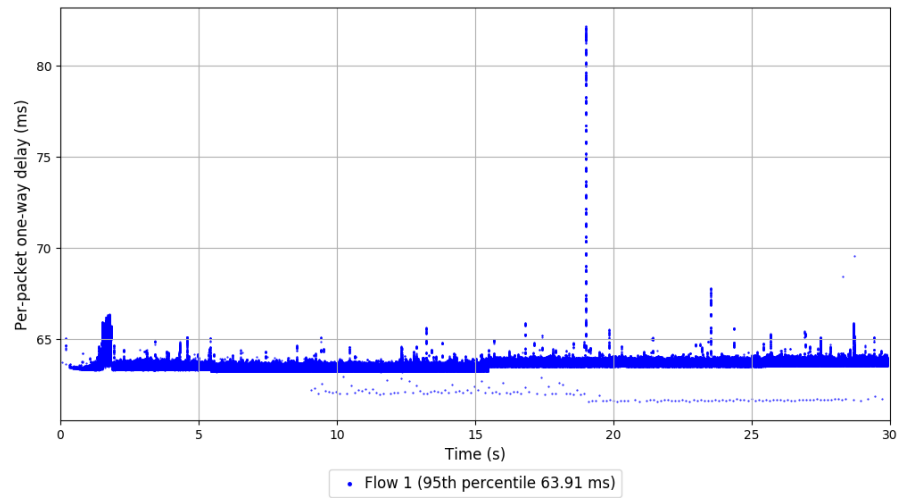
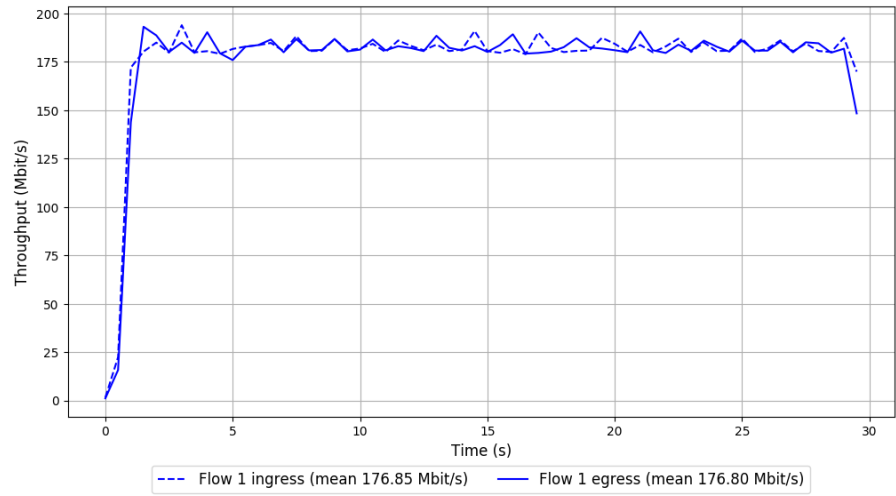
-- Flow 1:

Average throughput: 176.80 Mbit/s

95th percentile per-packet one-way delay: 63.914 ms

Loss rate: 0.45%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-16 15:29:34

End at: 2018-02-16 15:30:04

Below is generated by plot.py at 2018-02-16 19:50:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.58 Mbit/s

95th percentile per-packet one-way delay: 64.357 ms

Loss rate: 0.00%

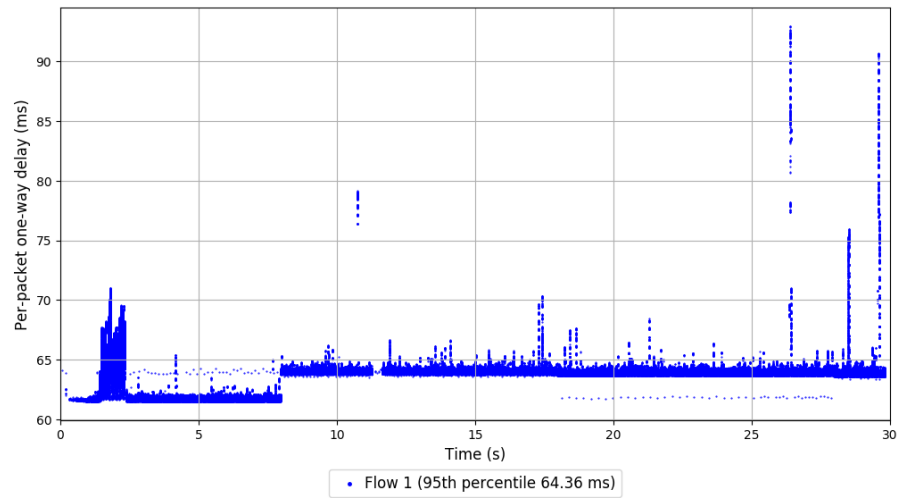
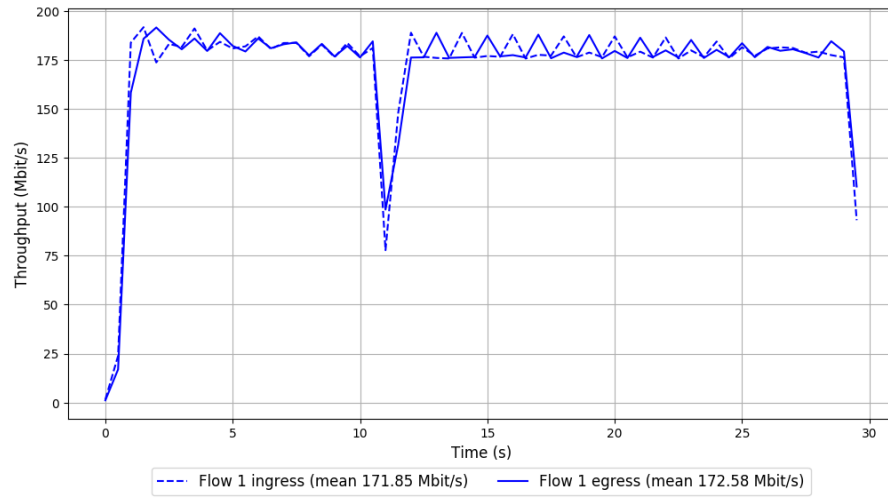
-- Flow 1:

Average throughput: 172.58 Mbit/s

95th percentile per-packet one-way delay: 64.357 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-16 15:44:15

End at: 2018-02-16 15:44:45

Below is generated by plot.py at 2018-02-16 19:50:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.69 Mbit/s

95th percentile per-packet one-way delay: 67.069 ms

Loss rate: 0.44%

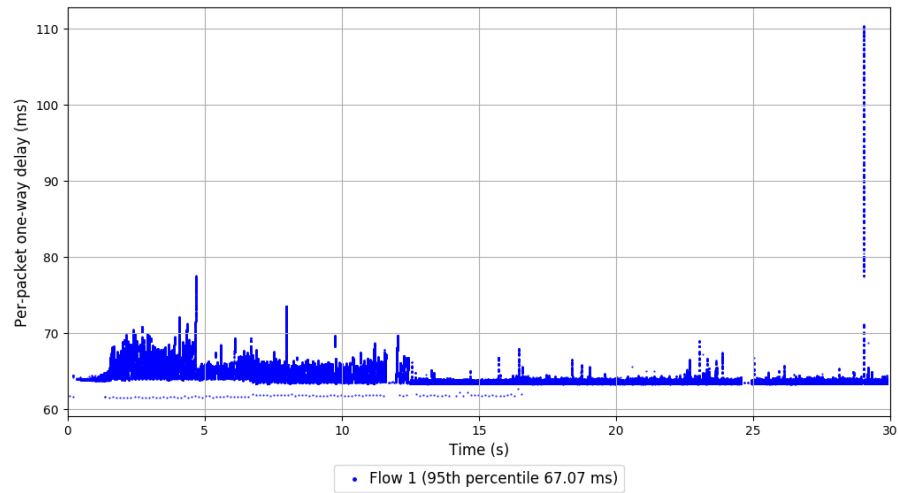
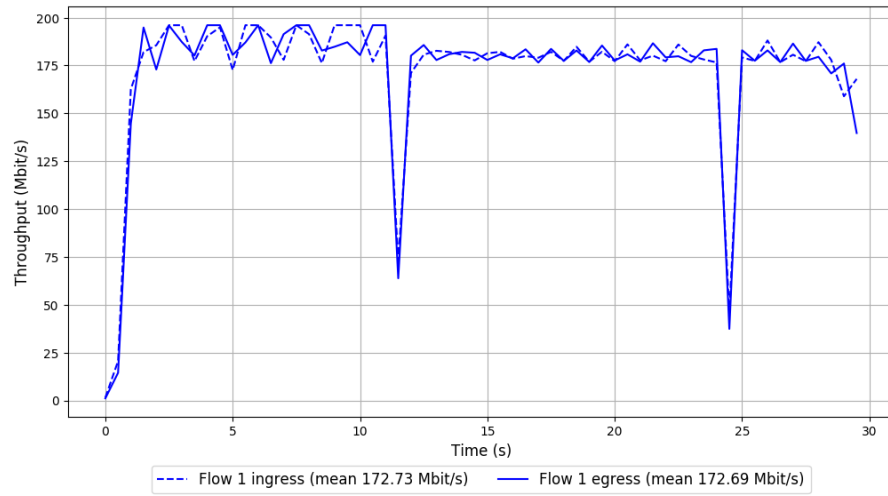
-- Flow 1:

Average throughput: 172.69 Mbit/s

95th percentile per-packet one-way delay: 67.069 ms

Loss rate: 0.44%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-16 15:59:04

End at: 2018-02-16 15:59:34

Below is generated by plot.py at 2018-02-16 19:50:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.37 Mbit/s

95th percentile per-packet one-way delay: 67.368 ms

Loss rate: 0.43%

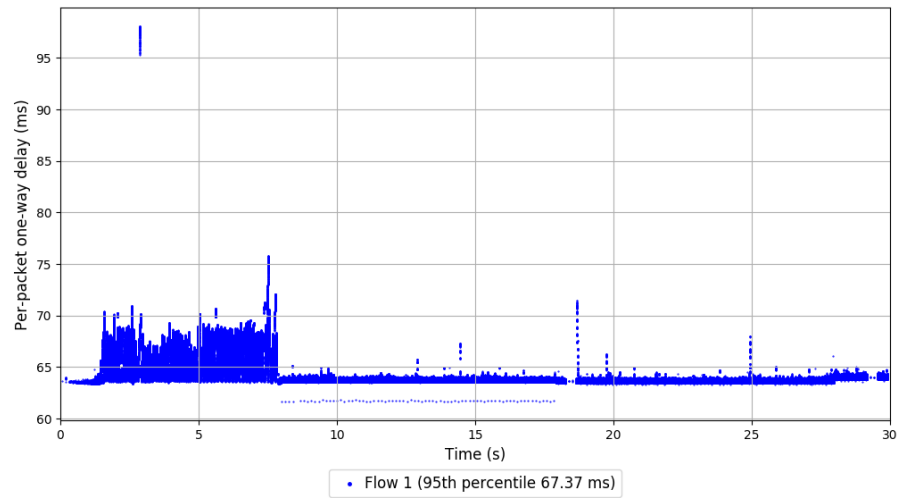
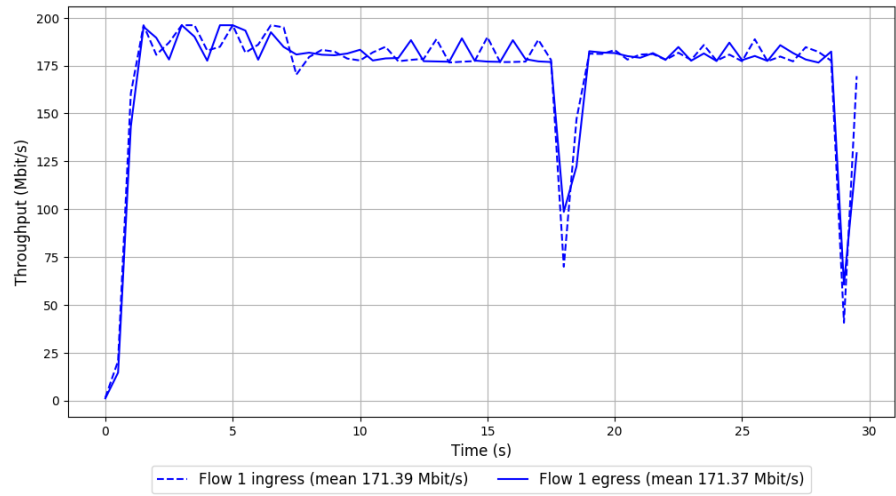
-- Flow 1:

Average throughput: 171.37 Mbit/s

95th percentile per-packet one-way delay: 67.368 ms

Loss rate: 0.43%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

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

End at: 2018-02-16 16:14:32

Below is generated by plot.py at 2018-02-16 19:50:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.61 Mbit/s

95th percentile per-packet one-way delay: 66.803 ms

Loss rate: 0.44%

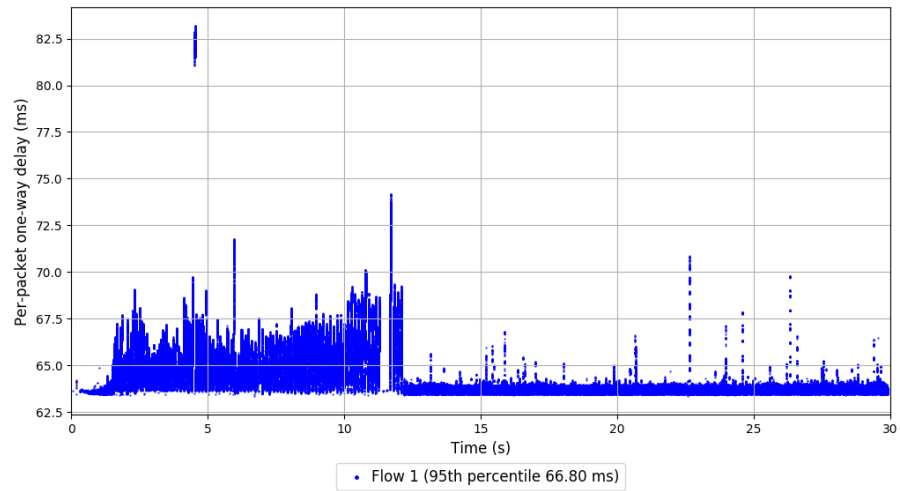
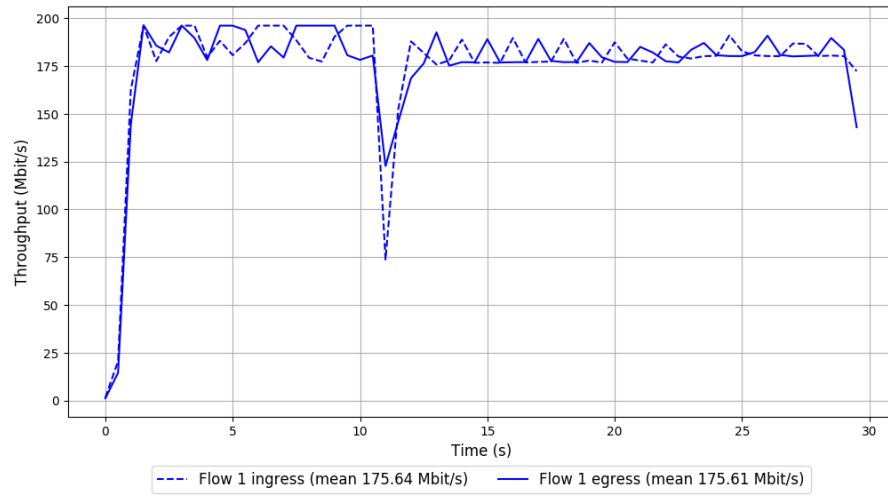
-- Flow 1:

Average throughput: 175.61 Mbit/s

95th percentile per-packet one-way delay: 66.803 ms

Loss rate: 0.44%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-16 16:29:07

End at: 2018-02-16 16:29:37

Below is generated by plot.py at 2018-02-16 19:50:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.31 Mbit/s

95th percentile per-packet one-way delay: 68.014 ms

Loss rate: 0.45%

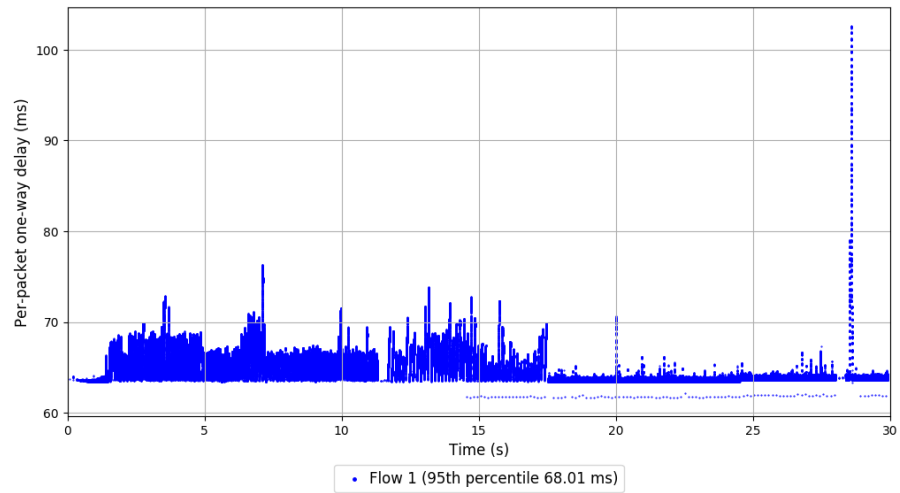
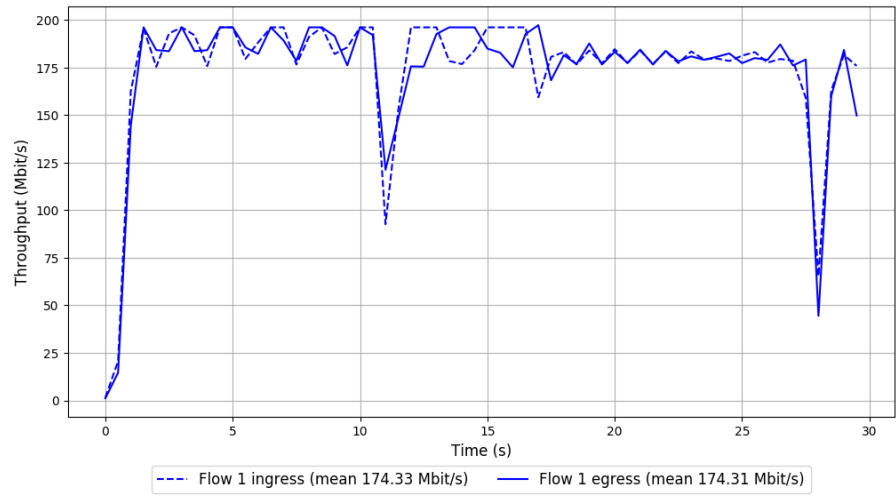
-- Flow 1:

Average throughput: 174.31 Mbit/s

95th percentile per-packet one-way delay: 68.014 ms

Loss rate: 0.45%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-16 16:44:04

End at: 2018-02-16 16:44:34

Below is generated by plot.py at 2018-02-16 19:53:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.63 Mbit/s

95th percentile per-packet one-way delay: 67.511 ms

Loss rate: 0.43%

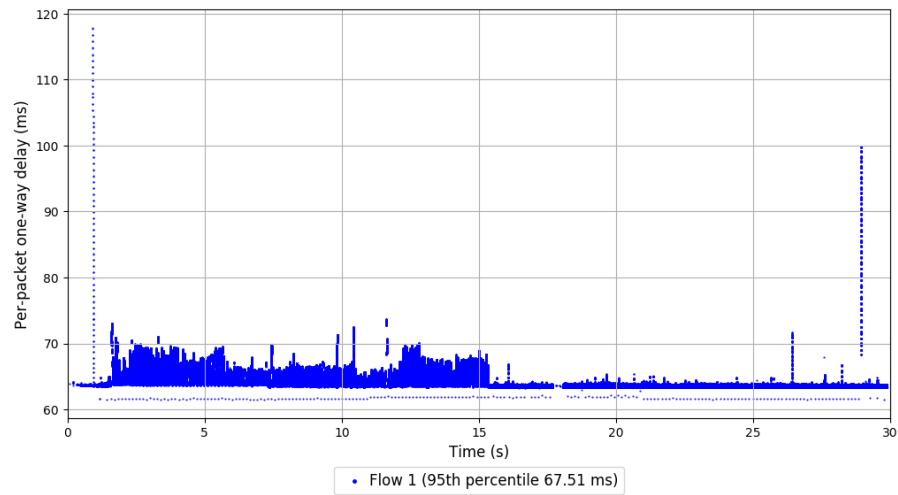
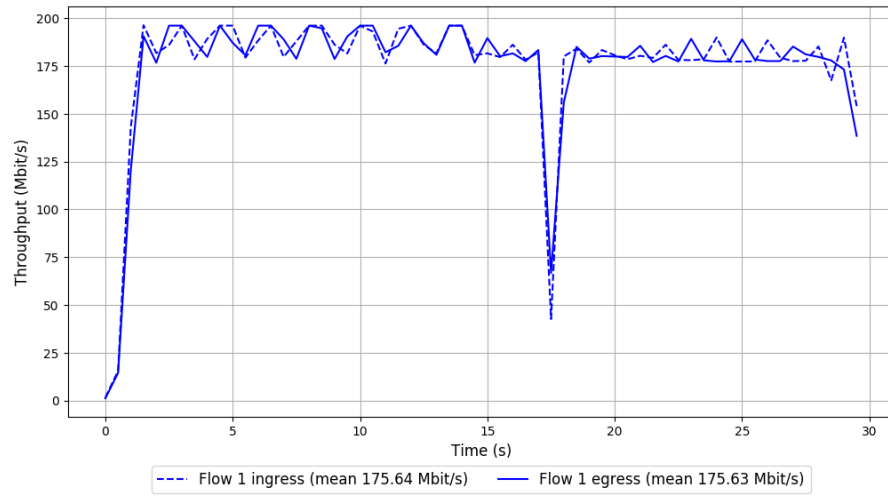
-- Flow 1:

Average throughput: 175.63 Mbit/s

95th percentile per-packet one-way delay: 67.511 ms

Loss rate: 0.43%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-16 16:59:04

End at: 2018-02-16 16:59:34

Below is generated by plot.py at 2018-02-16 19:53:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.10 Mbit/s

95th percentile per-packet one-way delay: 63.765 ms

Loss rate: 0.45%

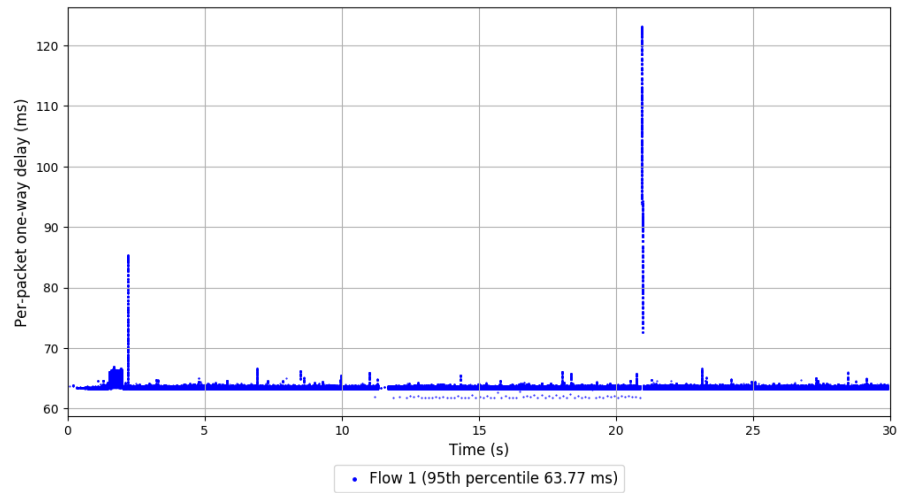
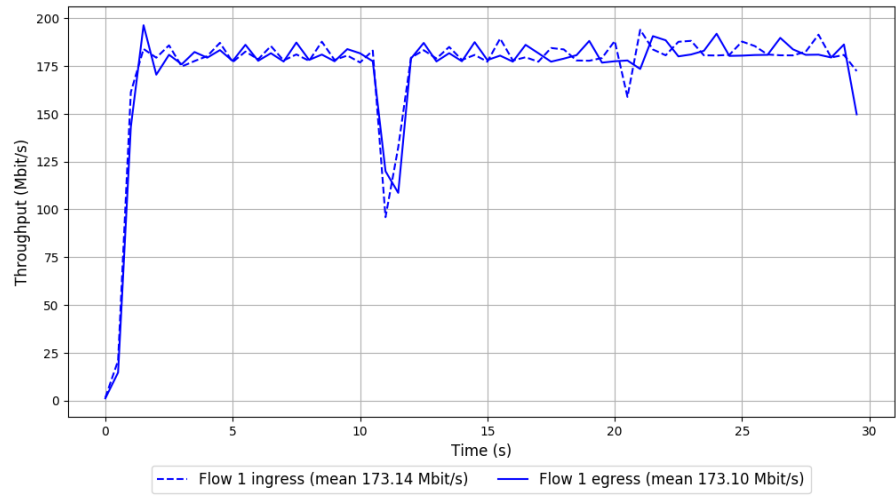
-- Flow 1:

Average throughput: 173.10 Mbit/s

95th percentile per-packet one-way delay: 63.765 ms

Loss rate: 0.45%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-16 14:47:40

End at: 2018-02-16 14:48:10

Below is generated by plot.py at 2018-02-16 19:53:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 148.23 Mbit/s

95th percentile per-packet one-way delay: 69.313 ms

Loss rate: 0.22%

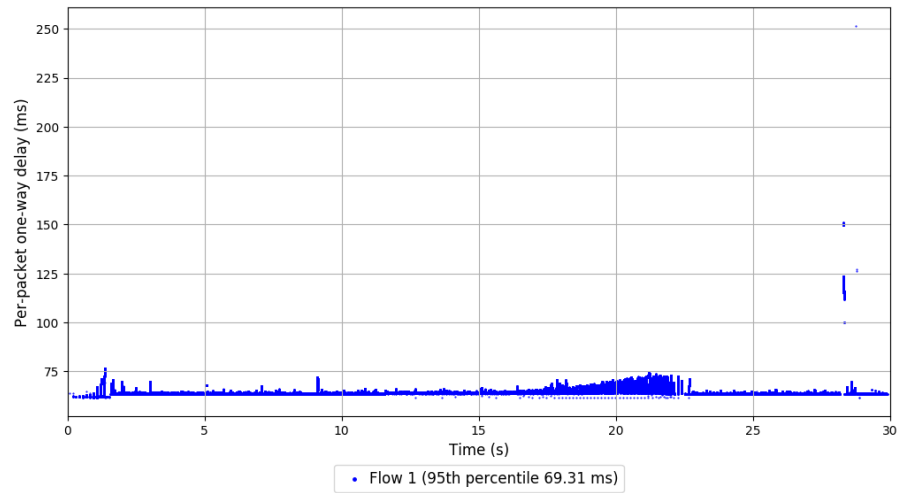
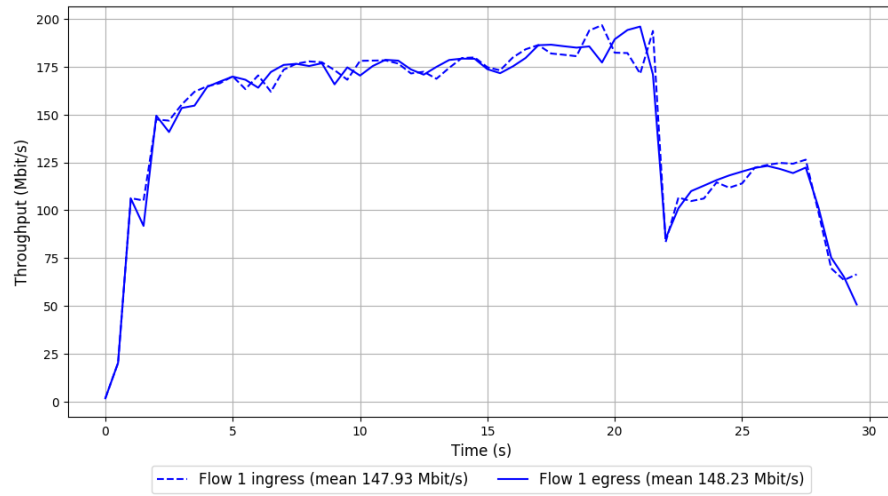
-- Flow 1:

Average throughput: 148.23 Mbit/s

95th percentile per-packet one-way delay: 69.313 ms

Loss rate: 0.22%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

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

End at: 2018-02-16 15:03:17

Below is generated by plot.py at 2018-02-16 19:53:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.28 Mbit/s

95th percentile per-packet one-way delay: 70.931 ms

Loss rate: 0.22%

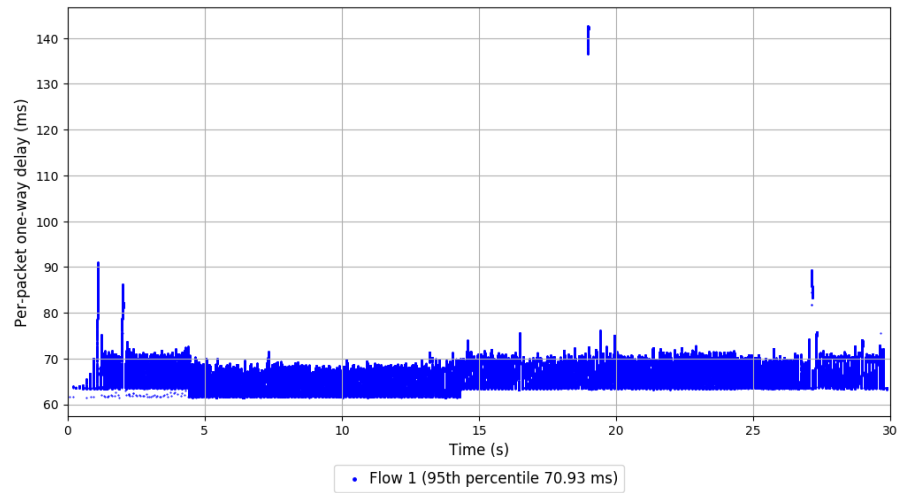
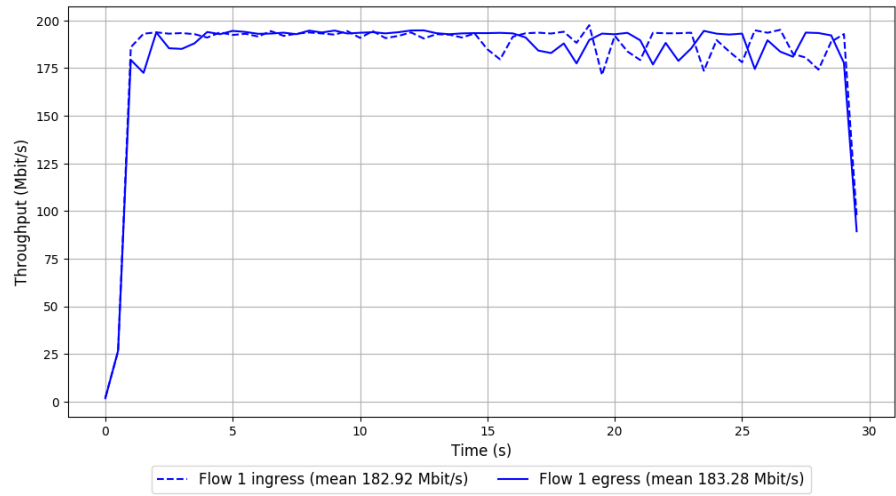
-- Flow 1:

Average throughput: 183.28 Mbit/s

95th percentile per-packet one-way delay: 70.931 ms

Loss rate: 0.22%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-16 15:17:53

End at: 2018-02-16 15:18:23

Below is generated by plot.py at 2018-02-16 19:53:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 136.96 Mbit/s

95th percentile per-packet one-way delay: 71.386 ms

Loss rate: 0.57%

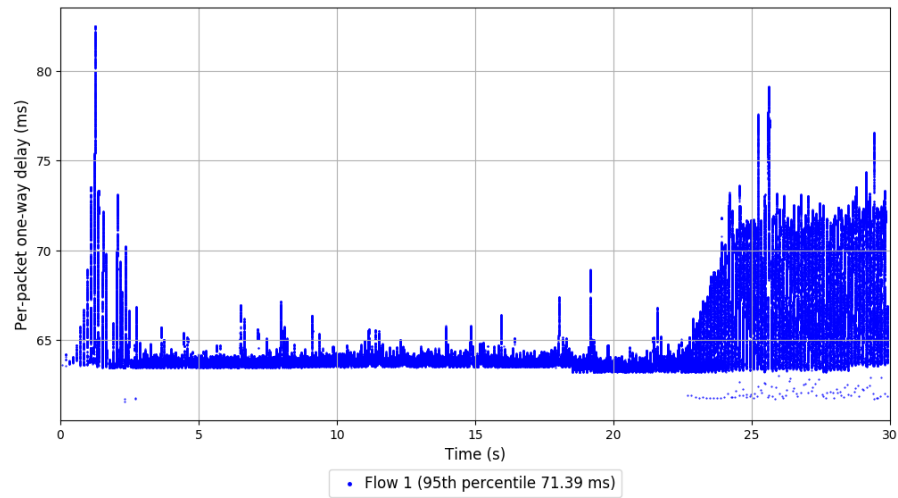
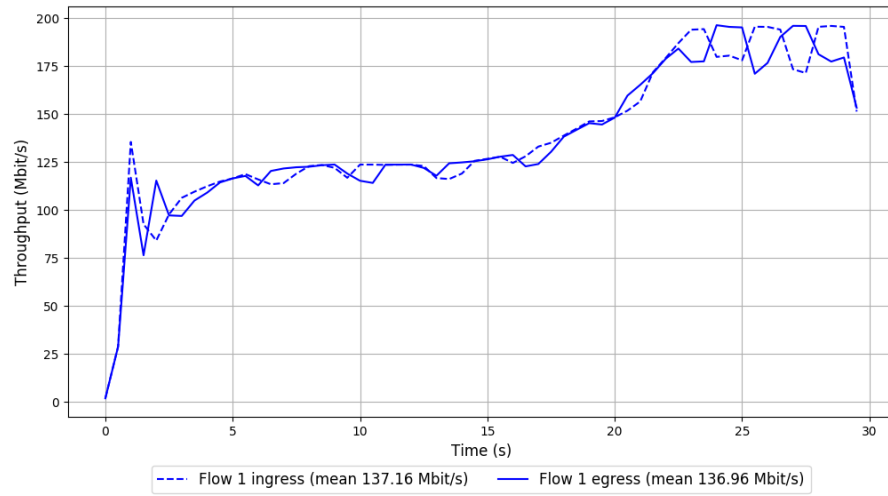
-- Flow 1:

Average throughput: 136.96 Mbit/s

95th percentile per-packet one-way delay: 71.386 ms

Loss rate: 0.57%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-16 15:32:40

End at: 2018-02-16 15:33:10

Below is generated by plot.py at 2018-02-16 19:53:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 107.38 Mbit/s

95th percentile per-packet one-way delay: 65.161 ms

Loss rate: 0.38%

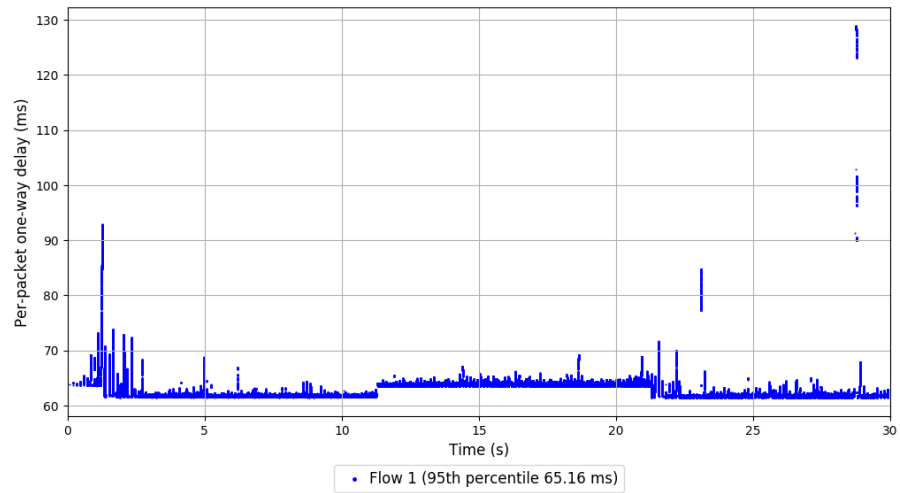
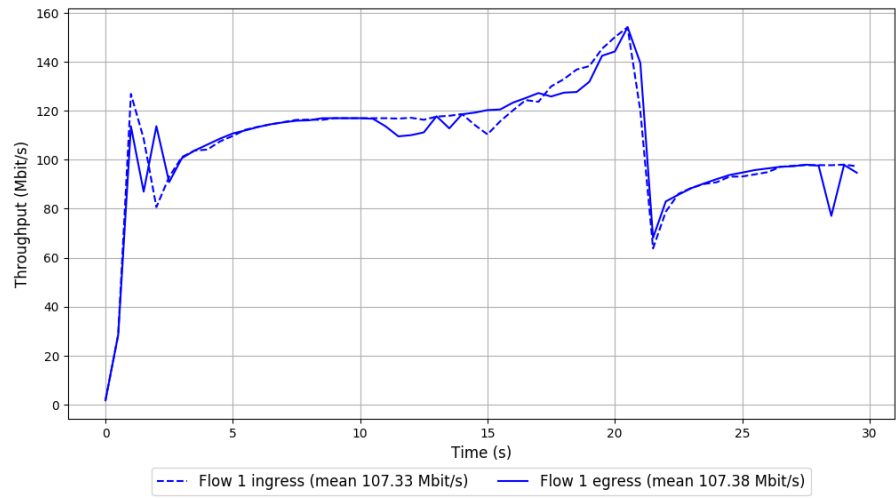
-- Flow 1:

Average throughput: 107.38 Mbit/s

95th percentile per-packet one-way delay: 65.161 ms

Loss rate: 0.38%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-16 15:47:21

End at: 2018-02-16 15:47:51

Below is generated by plot.py at 2018-02-16 19:53:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 126.45 Mbit/s

95th percentile per-packet one-way delay: 69.602 ms

Loss rate: 0.40%

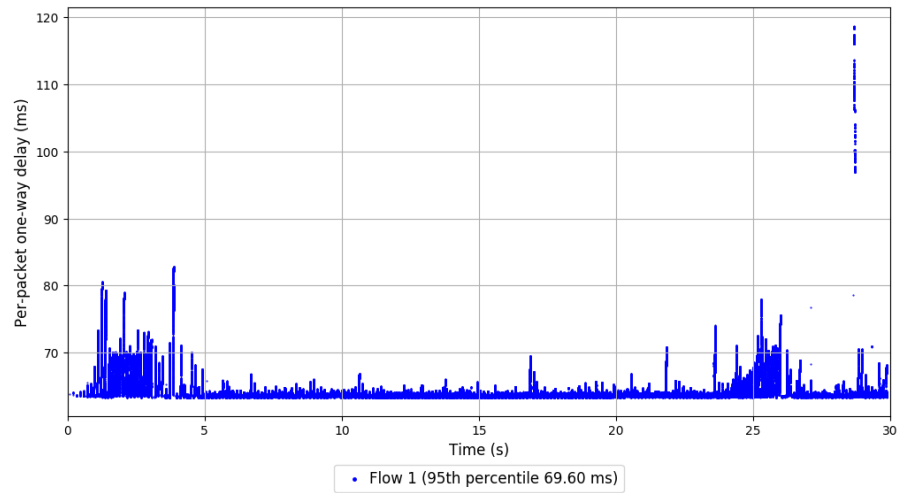
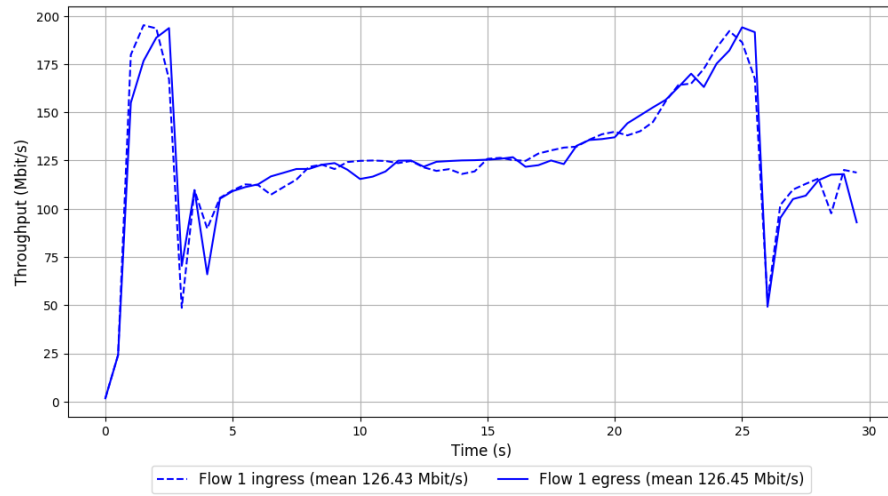
-- Flow 1:

Average throughput: 126.45 Mbit/s

95th percentile per-packet one-way delay: 69.602 ms

Loss rate: 0.40%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

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

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

Below is generated by plot.py at 2018-02-16 19:53:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 117.83 Mbit/s

95th percentile per-packet one-way delay: 70.281 ms

Loss rate: 0.37%

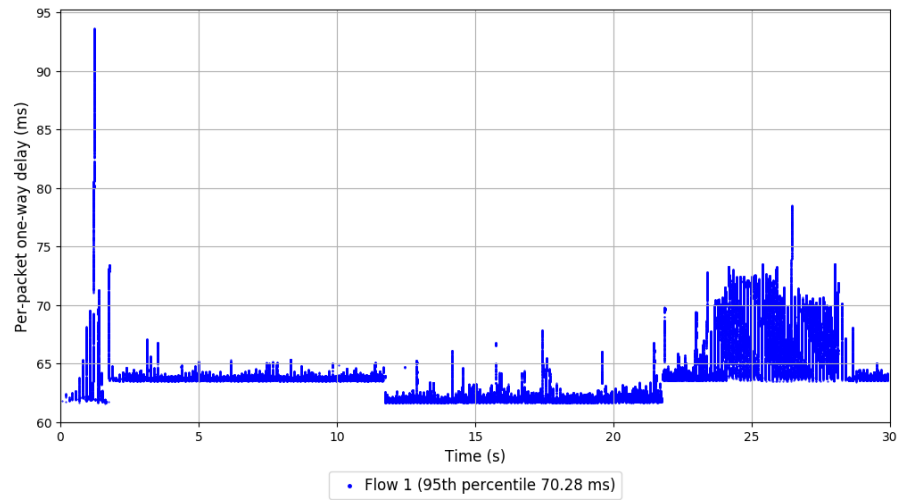
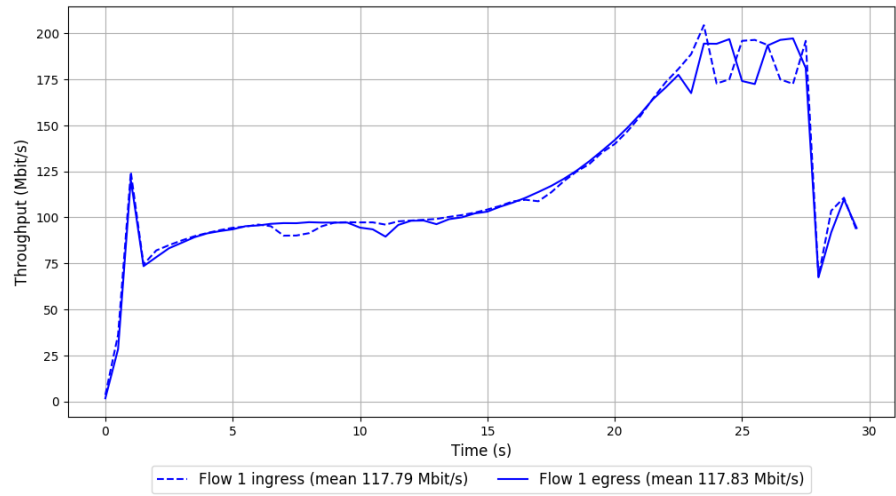
-- Flow 1:

Average throughput: 117.83 Mbit/s

95th percentile per-packet one-way delay: 70.281 ms

Loss rate: 0.37%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-16 16:17:09

End at: 2018-02-16 16:17:39

Below is generated by plot.py at 2018-02-16 19:54:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 128.44 Mbit/s

95th percentile per-packet one-way delay: 70.489 ms

Loss rate: 0.39%

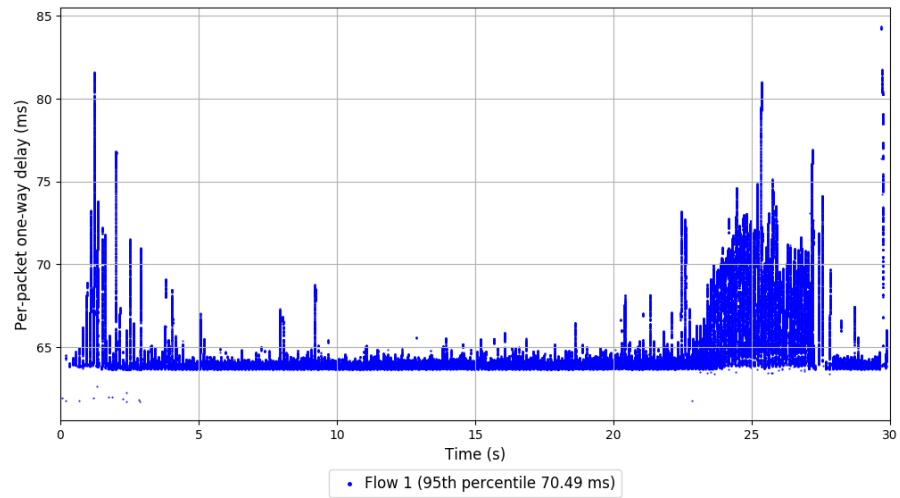
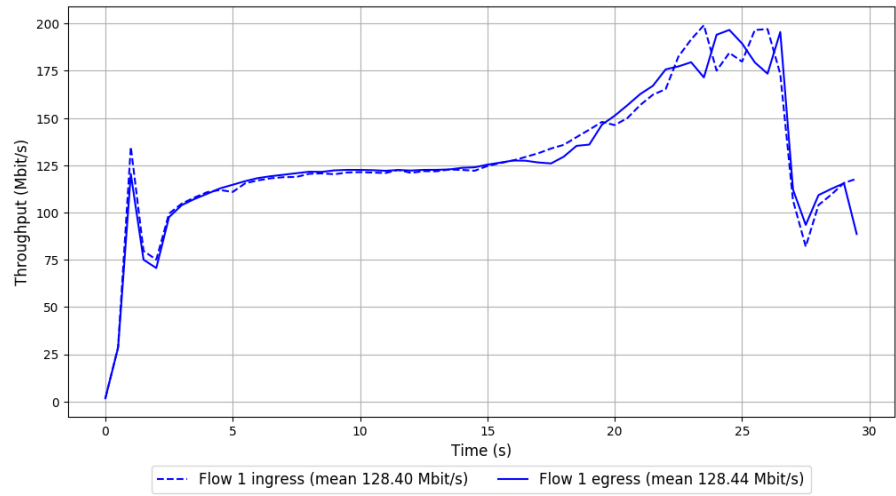
-- Flow 1:

Average throughput: 128.44 Mbit/s

95th percentile per-packet one-way delay: 70.489 ms

Loss rate: 0.39%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-16 16:32:15

End at: 2018-02-16 16:32:45

Below is generated by plot.py at 2018-02-16 19:55:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.20 Mbit/s

95th percentile per-packet one-way delay: 71.954 ms

Loss rate: 0.44%

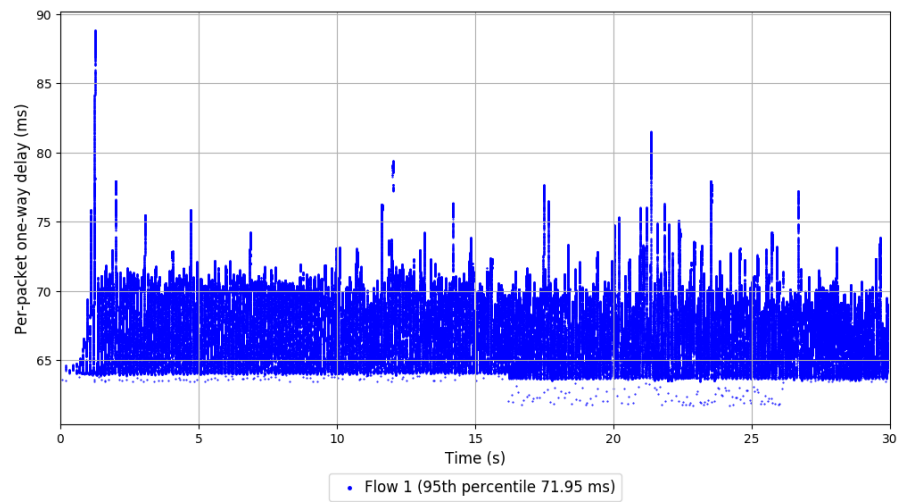
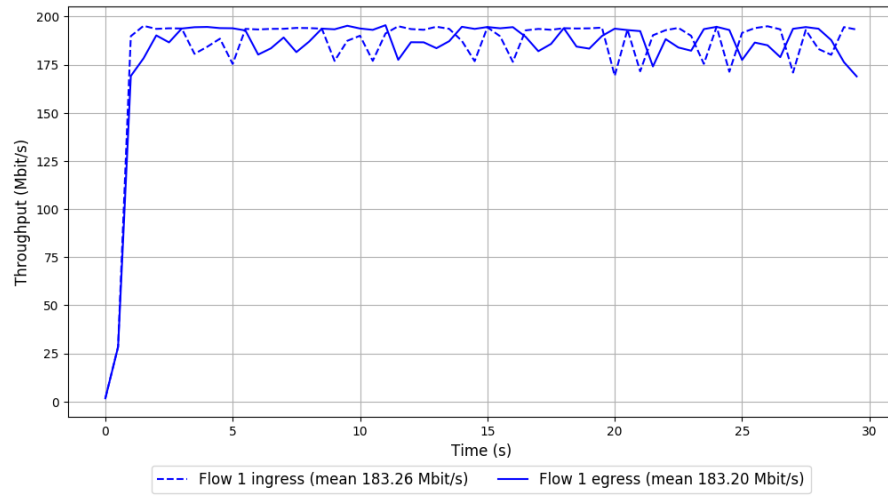
-- Flow 1:

Average throughput: 183.20 Mbit/s

95th percentile per-packet one-way delay: 71.954 ms

Loss rate: 0.44%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

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

End at: 2018-02-16 16:47:41

Below is generated by plot.py at 2018-02-16 19:55:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.22 Mbit/s

95th percentile per-packet one-way delay: 70.351 ms

Loss rate: 0.63%

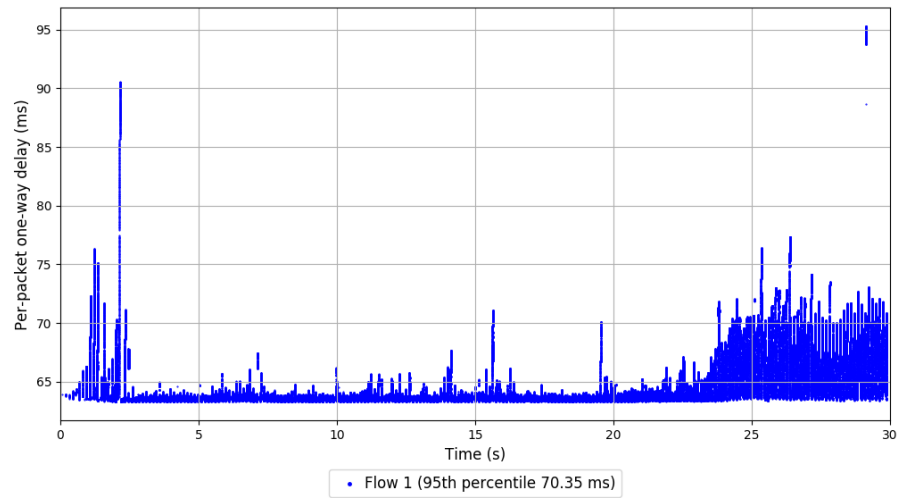
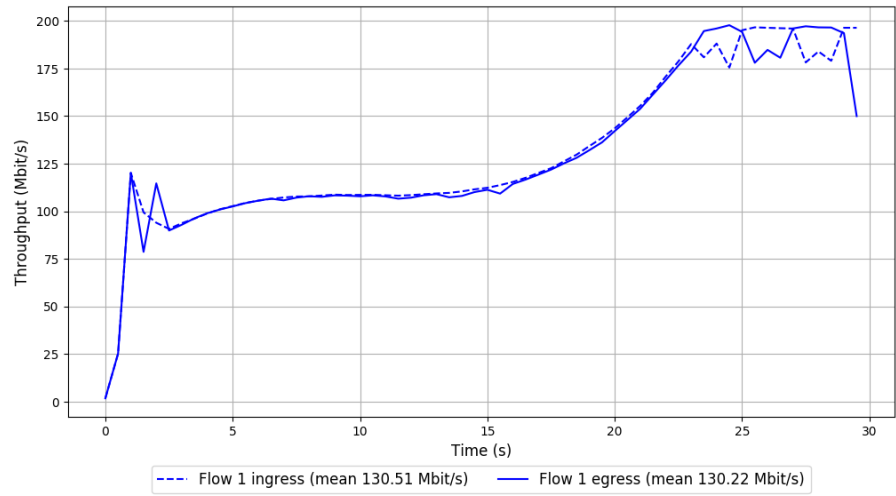
-- Flow 1:

Average throughput: 130.22 Mbit/s

95th percentile per-packet one-way delay: 70.351 ms

Loss rate: 0.63%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-16 17:02:11

End at: 2018-02-16 17:02:41

Below is generated by plot.py at 2018-02-16 19:55:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 114.02 Mbit/s

95th percentile per-packet one-way delay: 69.561 ms

Loss rate: 0.41%

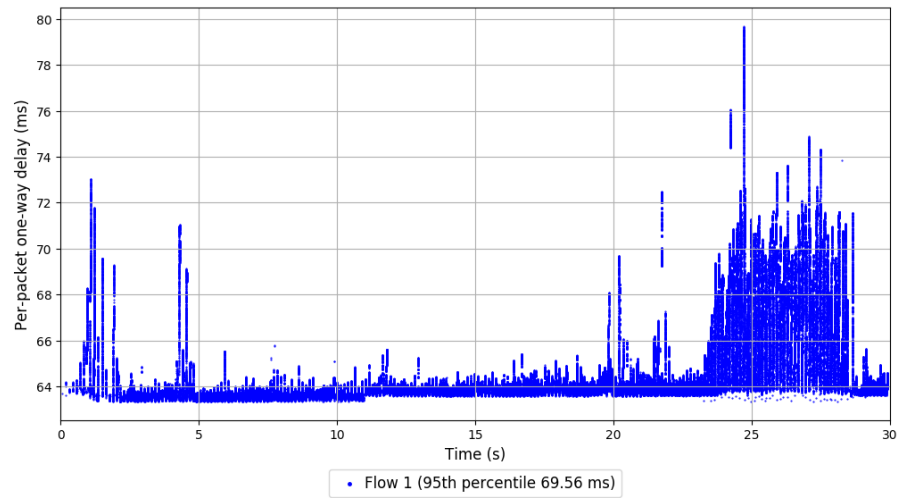
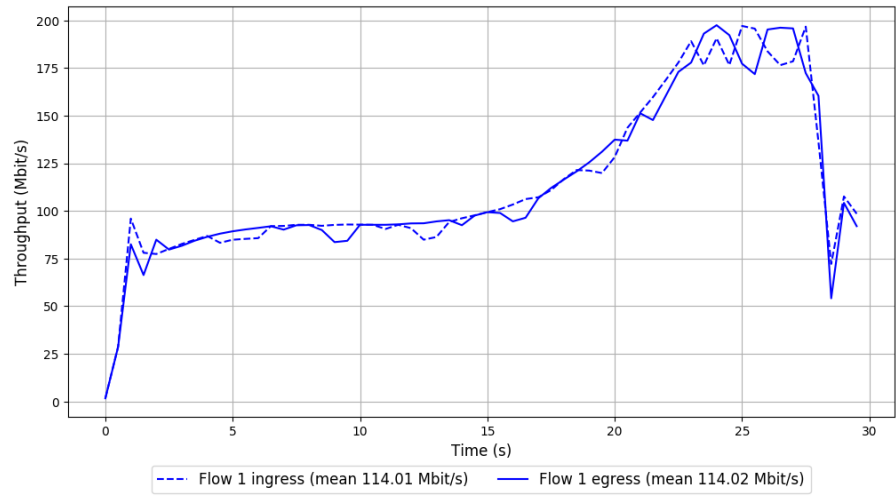
-- Flow 1:

Average throughput: 114.02 Mbit/s

95th percentile per-packet one-way delay: 69.561 ms

Loss rate: 0.41%

Run 10: Report of TCP Cubic — Data Link

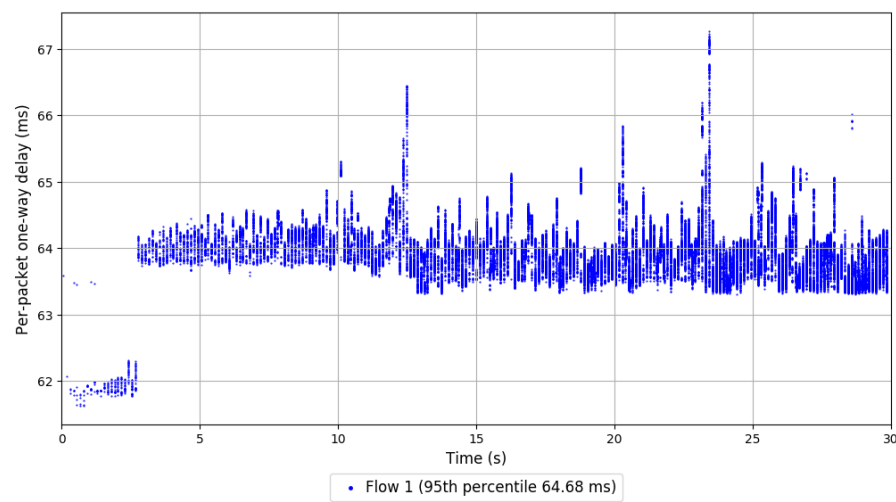
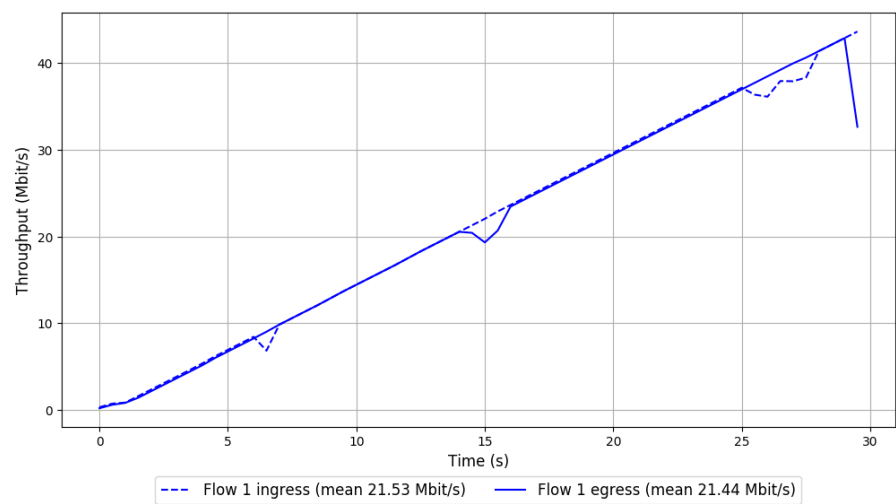


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-16 14:49:09
End at: 2018-02-16 14:49:39

# Below is generated by plot.py at 2018-02-16 19:55:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 21.44 Mbit/s
95th percentile per-packet one-way delay: 64.680 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 21.44 Mbit/s
95th percentile per-packet one-way delay: 64.680 ms
Loss rate: 0.85%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-02-16 15:04:14

End at: 2018-02-16 15:04:44

Below is generated by plot.py at 2018-02-16 19:55:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.18 Mbit/s

95th percentile per-packet one-way delay: 64.492 ms

Loss rate: 0.84%

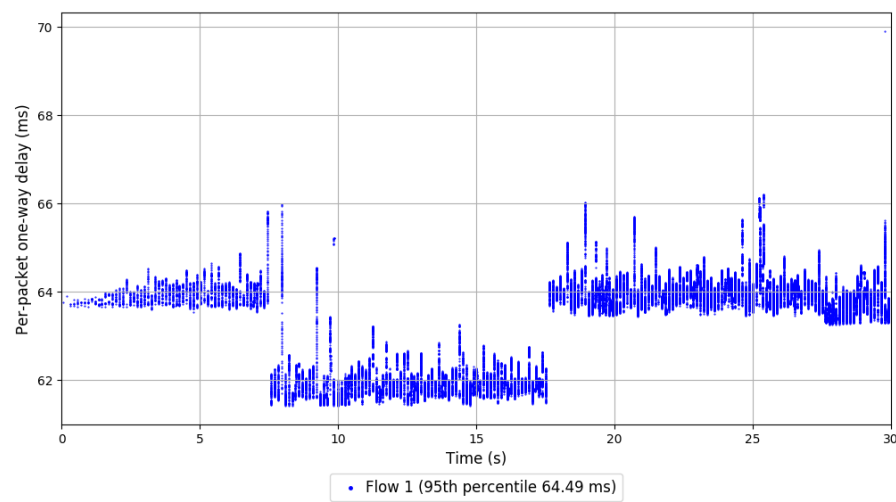
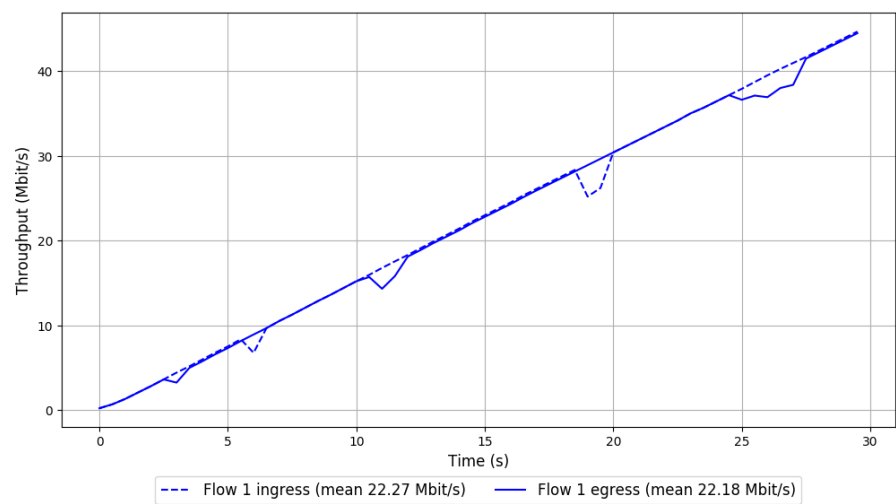
-- Flow 1:

Average throughput: 22.18 Mbit/s

95th percentile per-packet one-way delay: 64.492 ms

Loss rate: 0.84%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-16 15:19:24

End at: 2018-02-16 15:19:54

Below is generated by plot.py at 2018-02-16 19:55:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.62 Mbit/s

95th percentile per-packet one-way delay: 64.463 ms

Loss rate: 0.52%

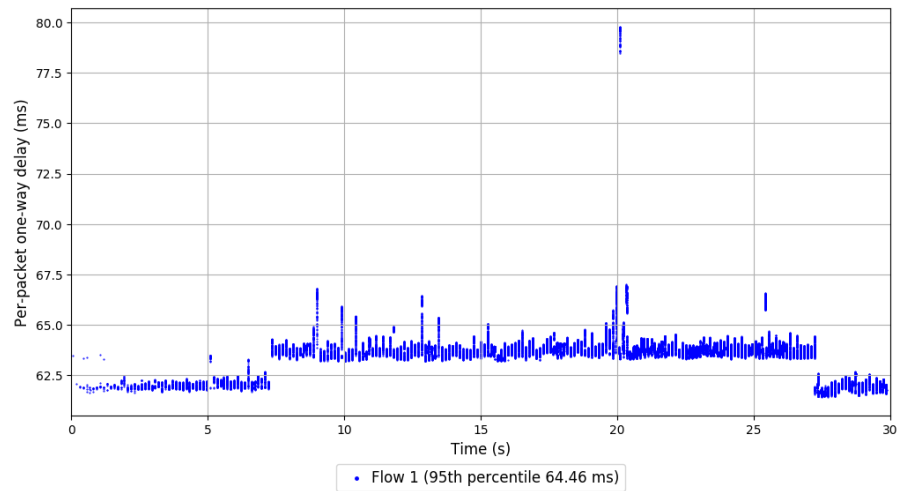
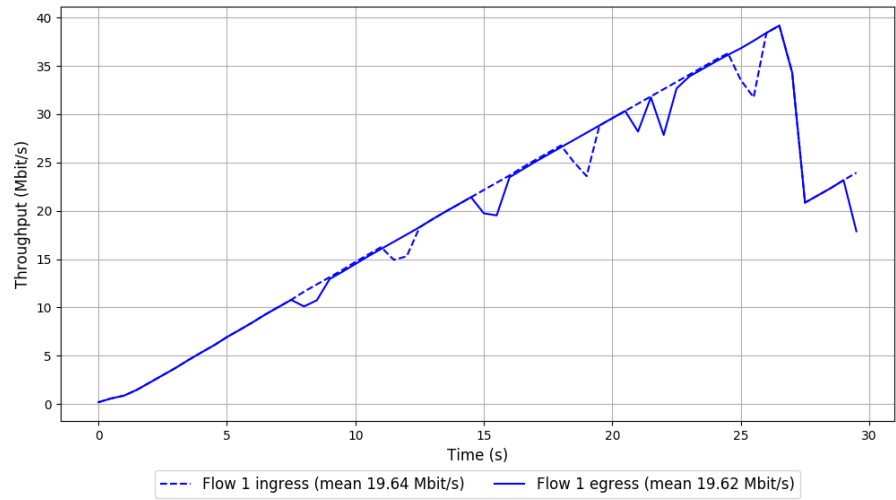
-- Flow 1:

Average throughput: 19.62 Mbit/s

95th percentile per-packet one-way delay: 64.463 ms

Loss rate: 0.52%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-16 15:34:02

End at: 2018-02-16 15:34:33

Below is generated by plot.py at 2018-02-16 19:55:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.98 Mbit/s

95th percentile per-packet one-way delay: 65.669 ms

Loss rate: 0.84%

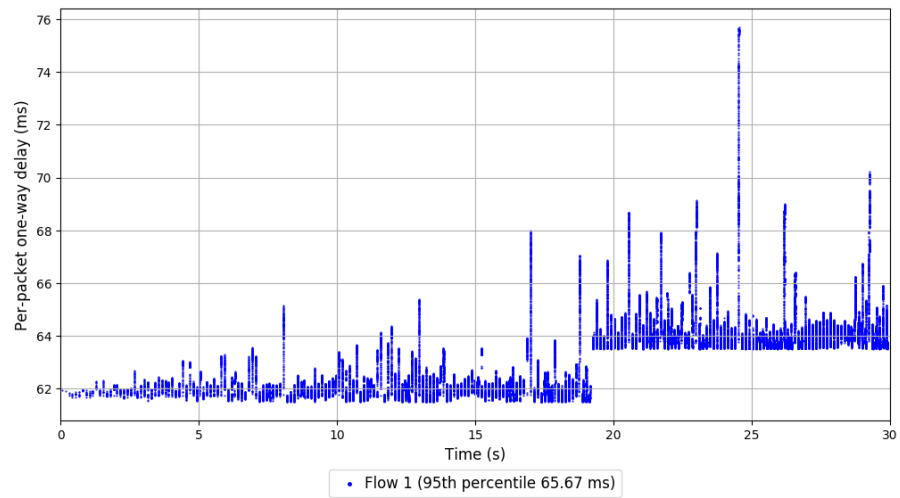
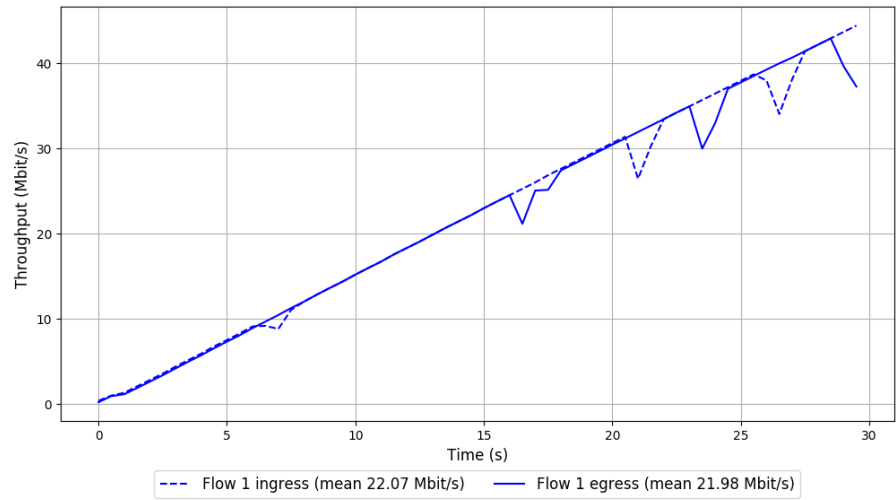
-- Flow 1:

Average throughput: 21.98 Mbit/s

95th percentile per-packet one-way delay: 65.669 ms

Loss rate: 0.84%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-16 15:48:45

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

Below is generated by plot.py at 2018-02-16 19:55:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.38 Mbit/s

95th percentile per-packet one-way delay: 65.101 ms

Loss rate: 0.84%

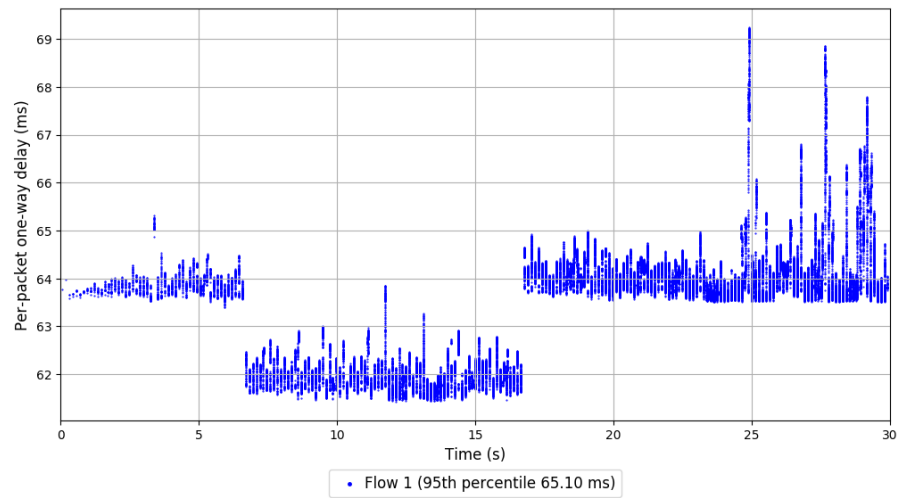
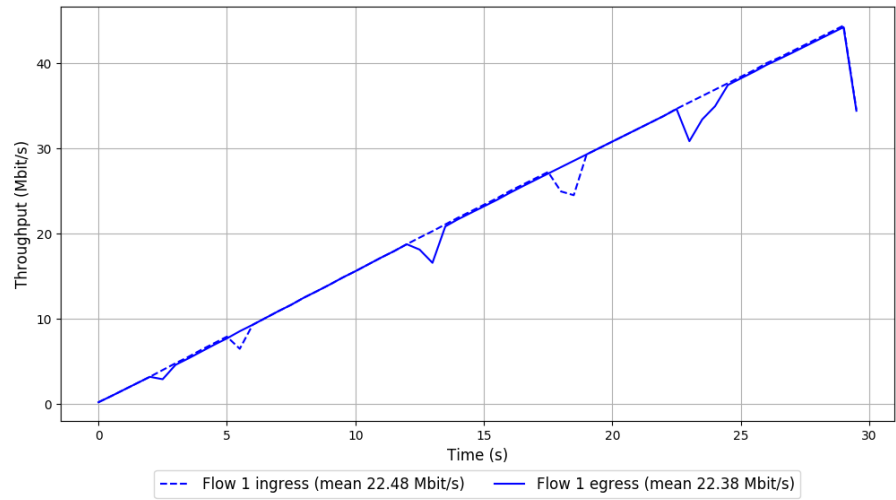
-- Flow 1:

Average throughput: 22.38 Mbit/s

95th percentile per-packet one-way delay: 65.101 ms

Loss rate: 0.84%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-16 16:03:33

End at: 2018-02-16 16:04:03

Below is generated by plot.py at 2018-02-16 19:55:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.13 Mbit/s

95th percentile per-packet one-way delay: 64.802 ms

Loss rate: 0.88%

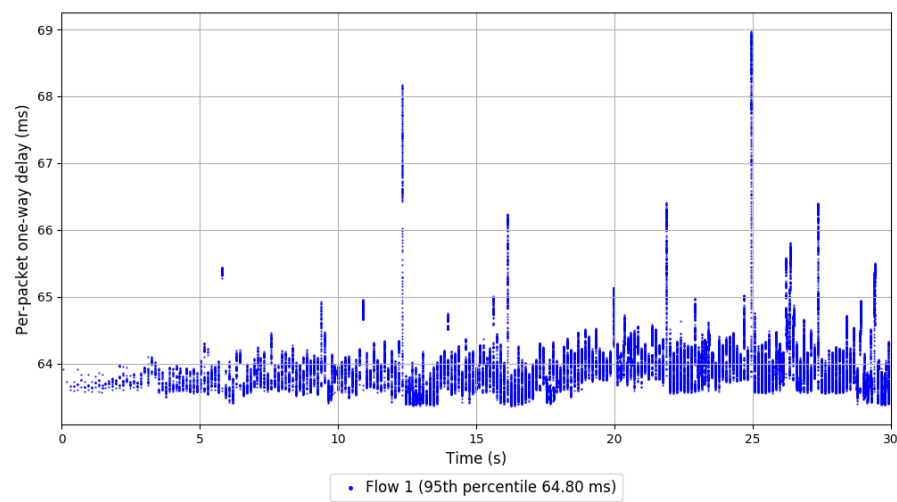
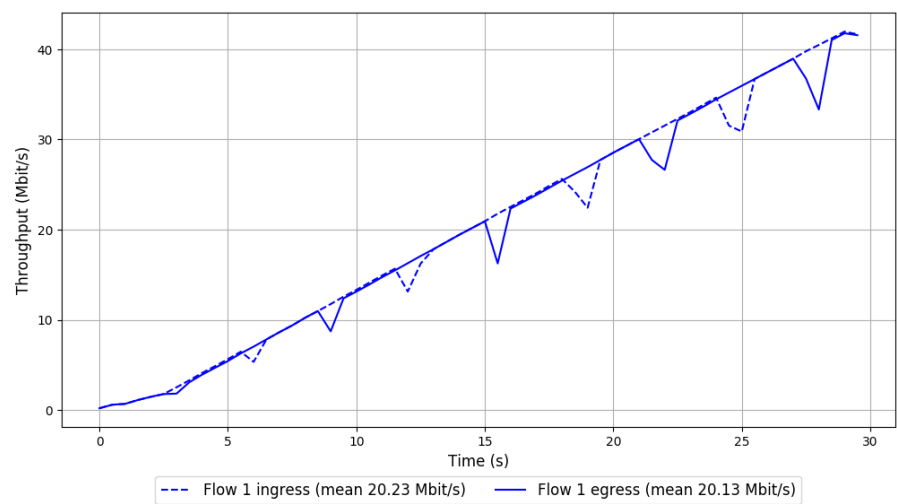
-- Flow 1:

Average throughput: 20.13 Mbit/s

95th percentile per-packet one-way delay: 64.802 ms

Loss rate: 0.88%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-16 16:18:39

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

Below is generated by plot.py at 2018-02-16 19:55:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.07 Mbit/s

95th percentile per-packet one-way delay: 64.982 ms

Loss rate: 0.85%

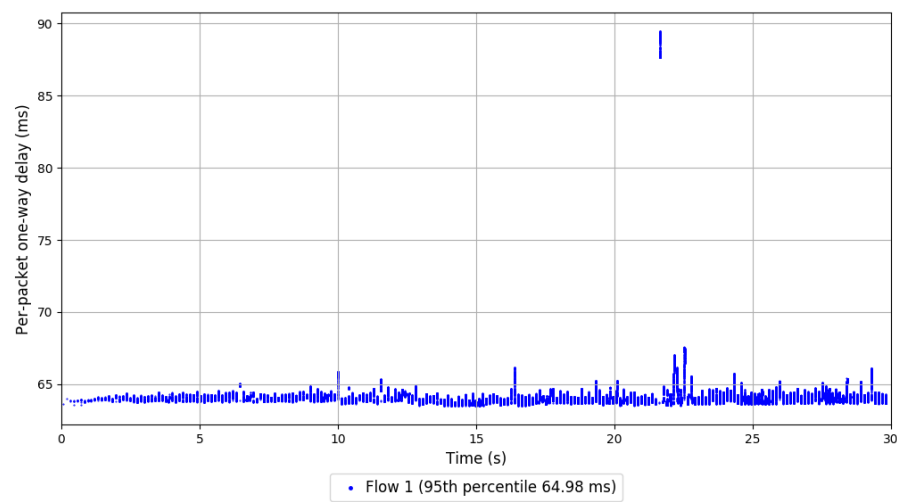
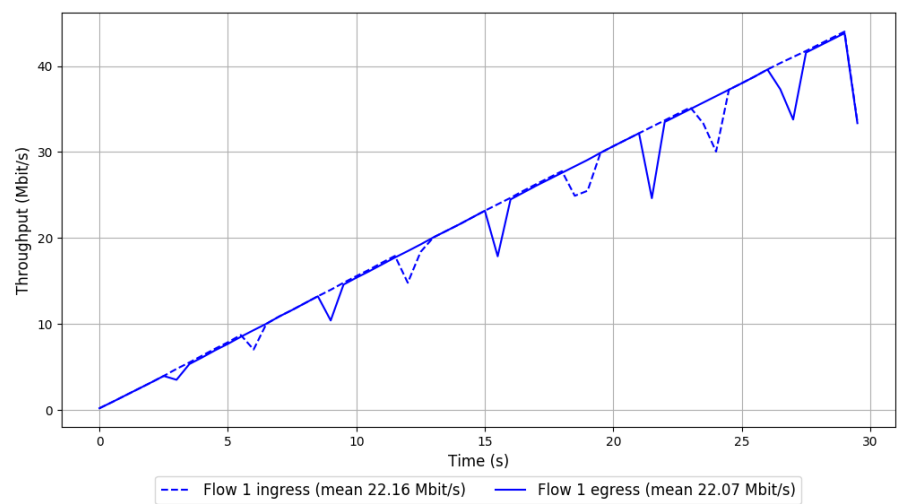
-- Flow 1:

Average throughput: 22.07 Mbit/s

95th percentile per-packet one-way delay: 64.982 ms

Loss rate: 0.85%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-16 16:33:45

End at: 2018-02-16 16:34:15

Below is generated by plot.py at 2018-02-16 19:55:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.69 Mbit/s

95th percentile per-packet one-way delay: 64.458 ms

Loss rate: 1.03%

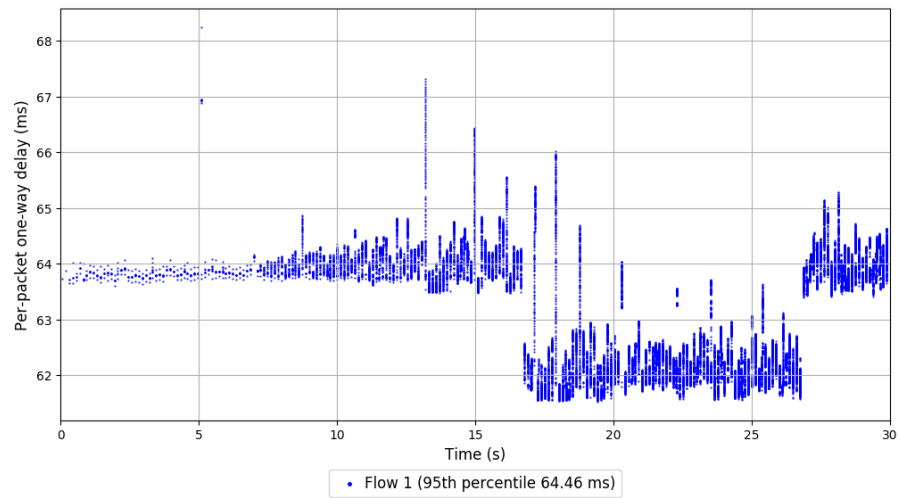
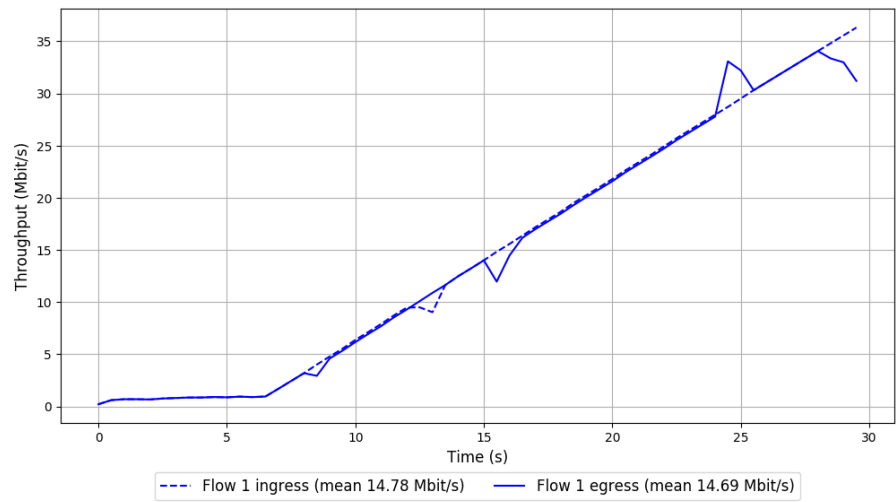
-- Flow 1:

Average throughput: 14.69 Mbit/s

95th percentile per-packet one-way delay: 64.458 ms

Loss rate: 1.03%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-16 16:48:41

End at: 2018-02-16 16:49:11

Below is generated by plot.py at 2018-02-16 19:55:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.50 Mbit/s

95th percentile per-packet one-way delay: 65.372 ms

Loss rate: 0.84%

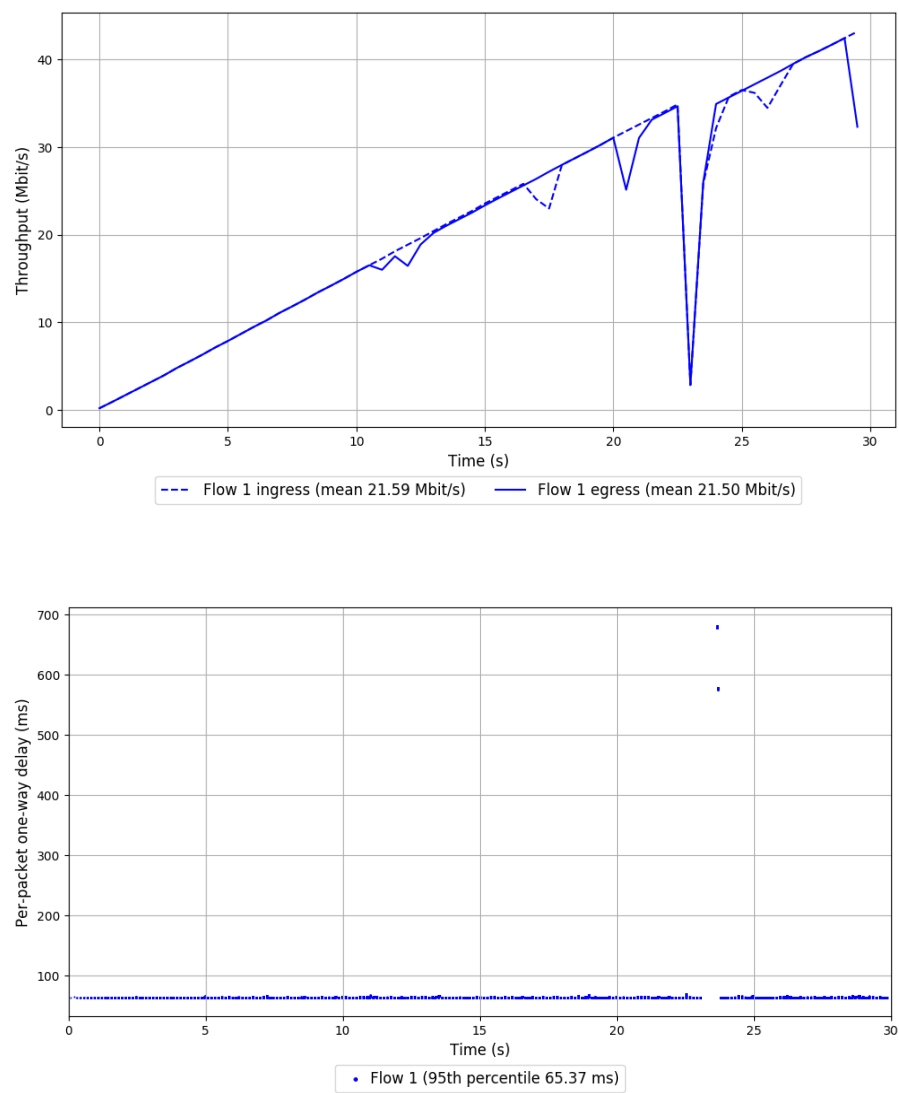
-- Flow 1:

Average throughput: 21.50 Mbit/s

95th percentile per-packet one-way delay: 65.372 ms

Loss rate: 0.84%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-16 17:03:34

End at: 2018-02-16 17:04:04

Below is generated by plot.py at 2018-02-16 19:55:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.35 Mbit/s

95th percentile per-packet one-way delay: 64.580 ms

Loss rate: 0.84%

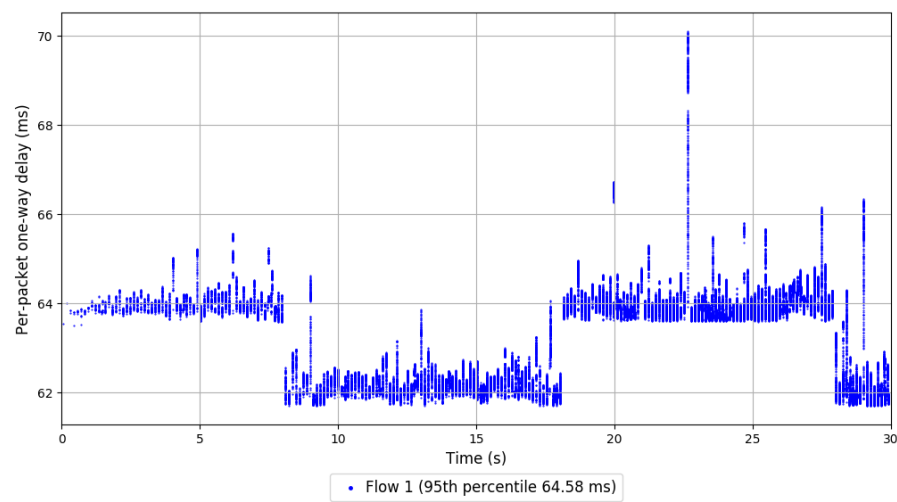
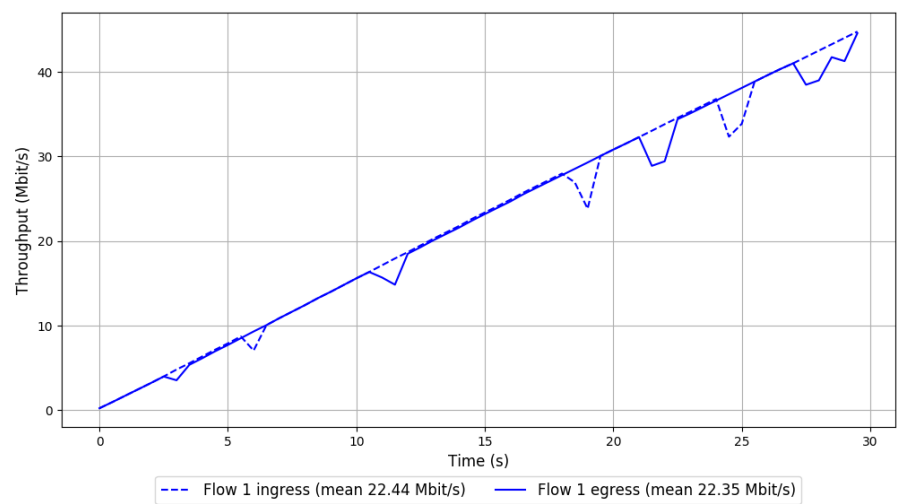
-- Flow 1:

Average throughput: 22.35 Mbit/s

95th percentile per-packet one-way delay: 64.580 ms

Loss rate: 0.84%

Run 10: Report of LEDBAT — Data Link

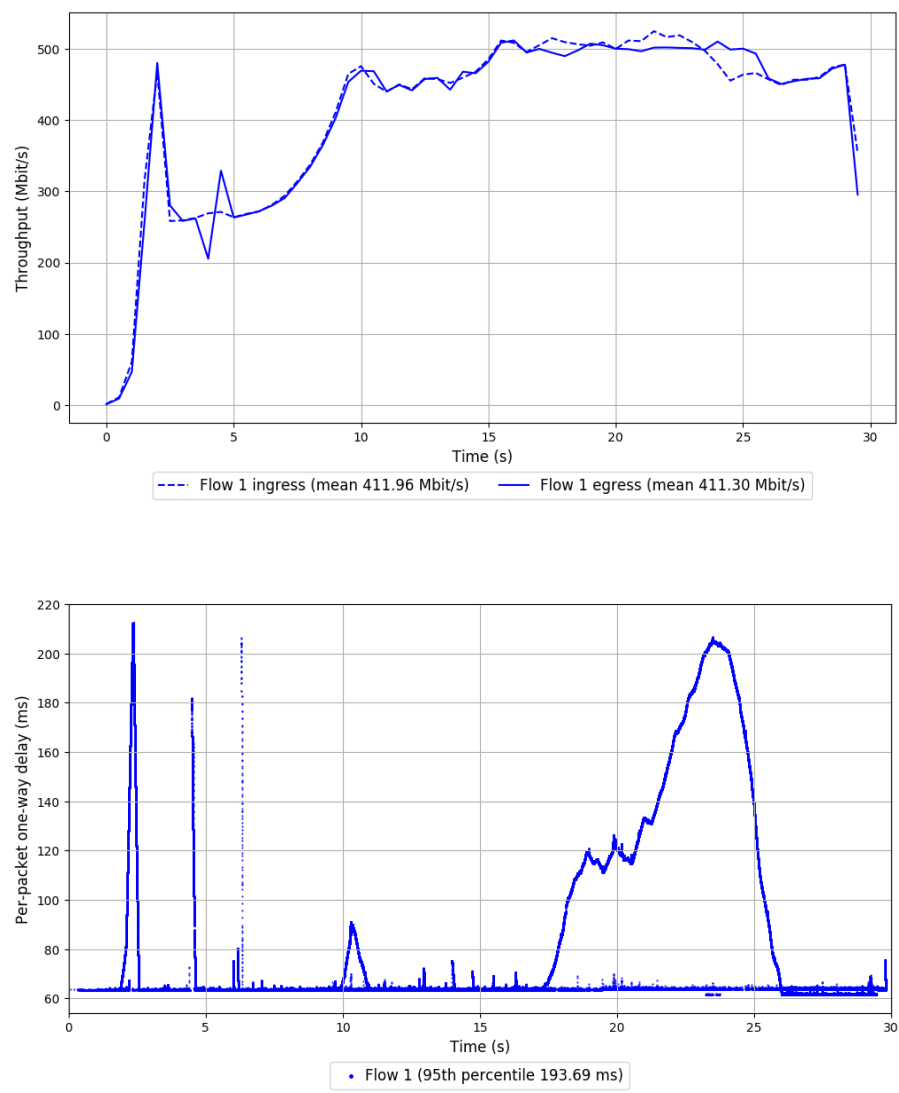


```
Run 1: Statistics of PCC

Start at: 2018-02-16 14:38:02
End at: 2018-02-16 14:38:32

# Below is generated by plot.py at 2018-02-16 20:02:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 411.30 Mbit/s
95th percentile per-packet one-way delay: 193.692 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 411.30 Mbit/s
95th percentile per-packet one-way delay: 193.692 ms
Loss rate: 0.58%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-16 14:53:08

End at: 2018-02-16 14:53:38

Below is generated by plot.py at 2018-02-16 20:03:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 487.02 Mbit/s

95th percentile per-packet one-way delay: 205.785 ms

Loss rate: 1.99%

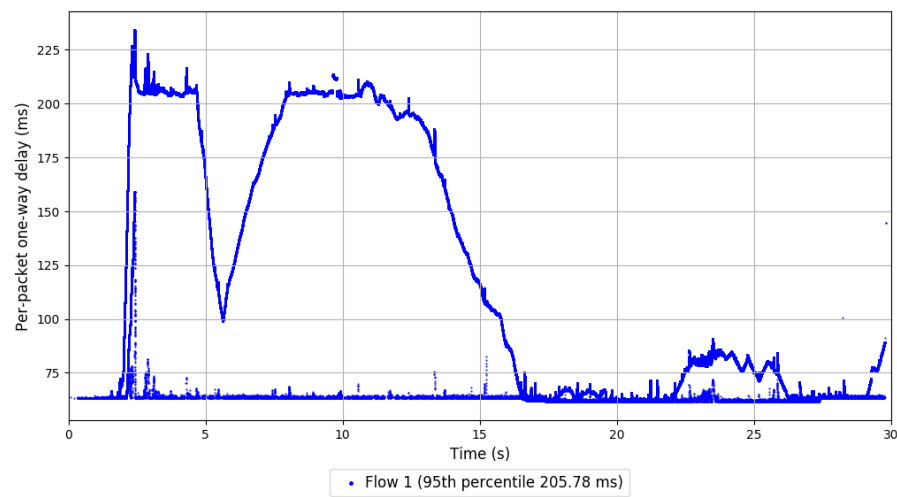
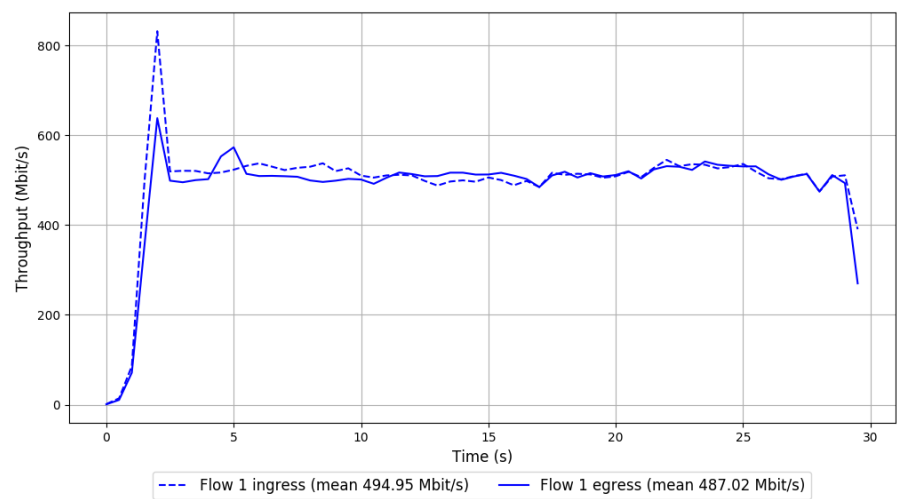
-- Flow 1:

Average throughput: 487.02 Mbit/s

95th percentile per-packet one-way delay: 205.785 ms

Loss rate: 1.99%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-16 15:08:12

End at: 2018-02-16 15:08:42

Below is generated by plot.py at 2018-02-16 20:03:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 416.67 Mbit/s

95th percentile per-packet one-way delay: 94.628 ms

Loss rate: 0.53%

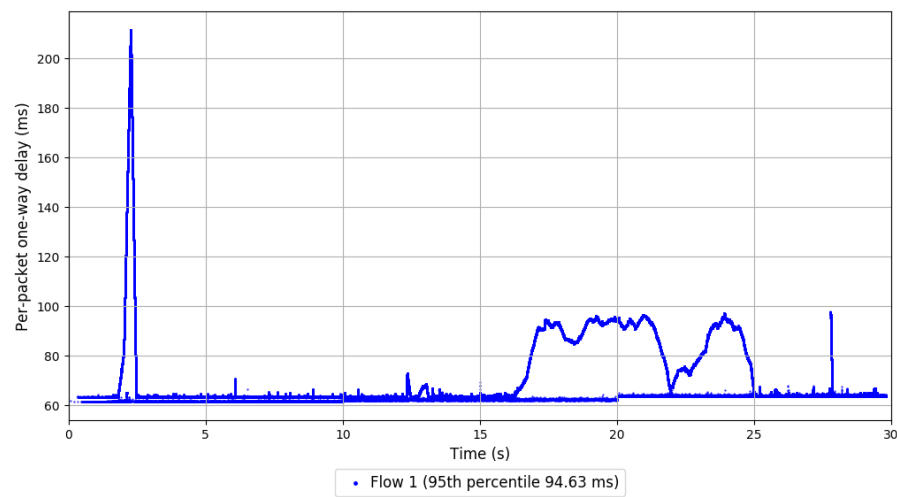
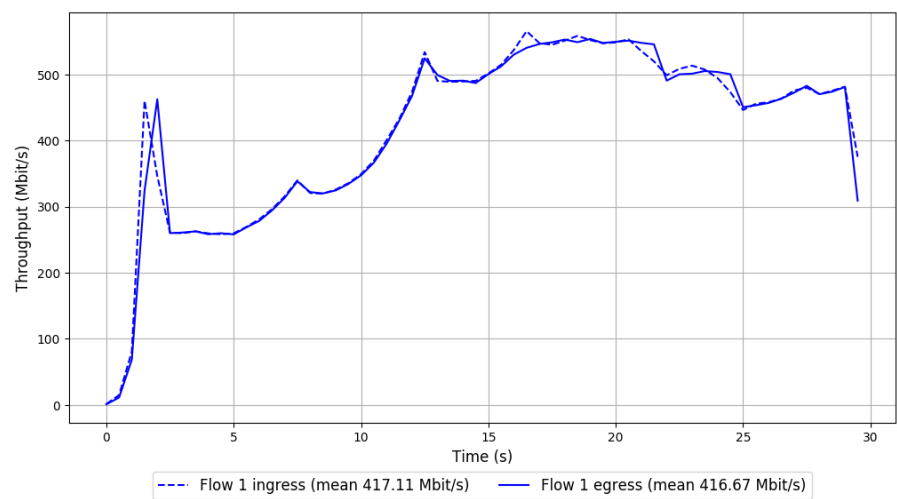
-- Flow 1:

Average throughput: 416.67 Mbit/s

95th percentile per-packet one-way delay: 94.628 ms

Loss rate: 0.53%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-16 15:23:20

End at: 2018-02-16 15:23:50

Below is generated by plot.py at 2018-02-16 20:03:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 467.79 Mbit/s

95th percentile per-packet one-way delay: 188.313 ms

Loss rate: 0.89%

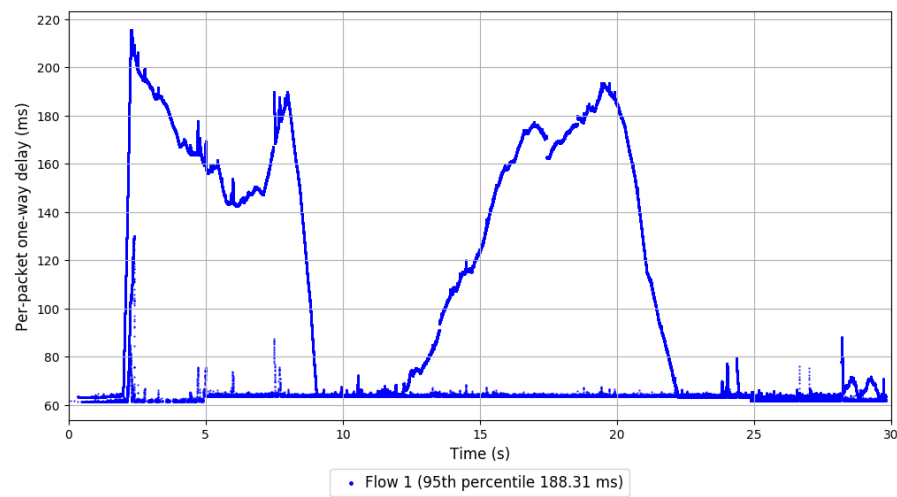
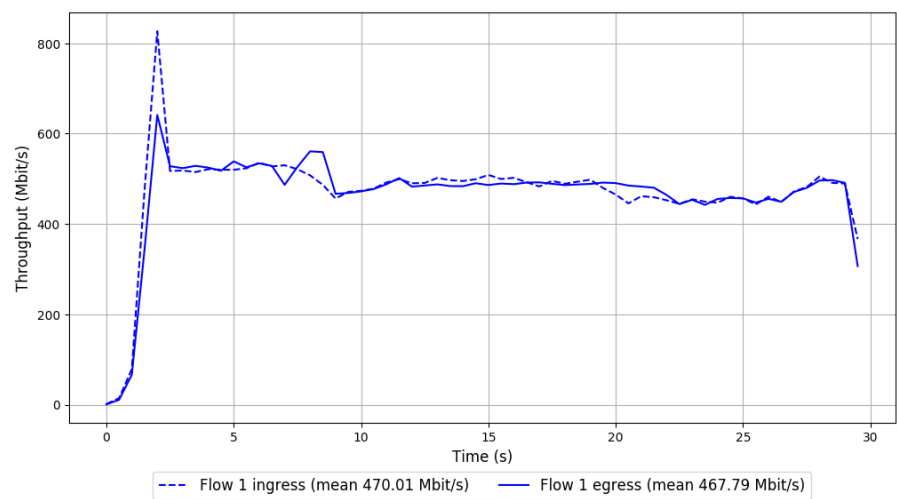
-- Flow 1:

Average throughput: 467.79 Mbit/s

95th percentile per-packet one-way delay: 188.313 ms

Loss rate: 0.89%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-16 15:37:45

End at: 2018-02-16 15:38:15

Below is generated by plot.py at 2018-02-16 20:03:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 420.56 Mbit/s

95th percentile per-packet one-way delay: 126.053 ms

Loss rate: 0.52%

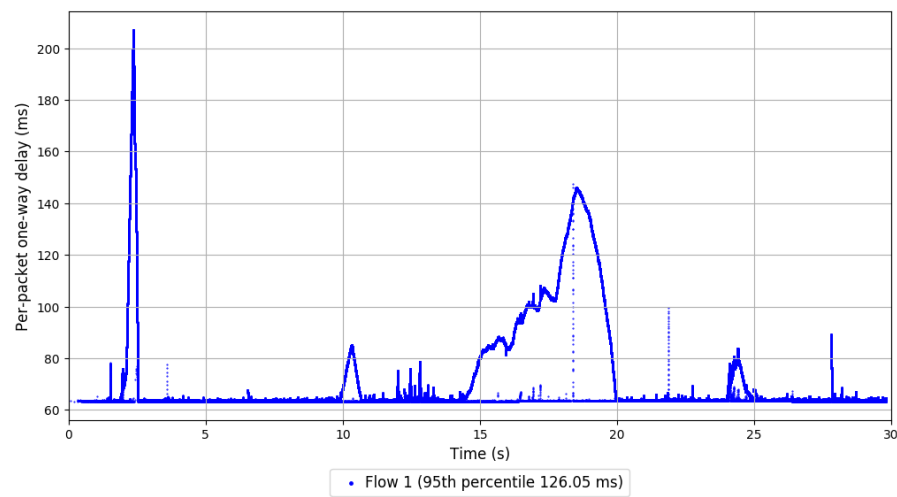
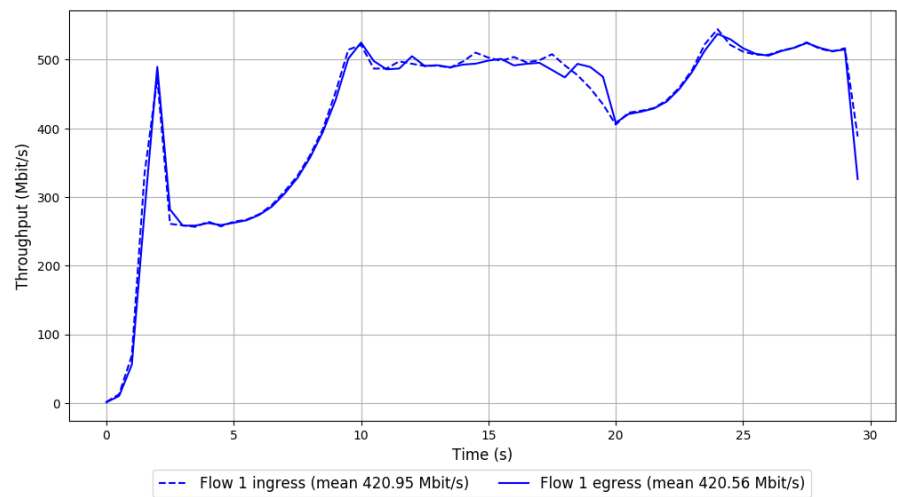
-- Flow 1:

Average throughput: 420.56 Mbit/s

95th percentile per-packet one-way delay: 126.053 ms

Loss rate: 0.52%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-16 15:52:37

End at: 2018-02-16 15:53:07

Below is generated by plot.py at 2018-02-16 20:03:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 484.16 Mbit/s

95th percentile per-packet one-way delay: 206.746 ms

Loss rate: 2.10%

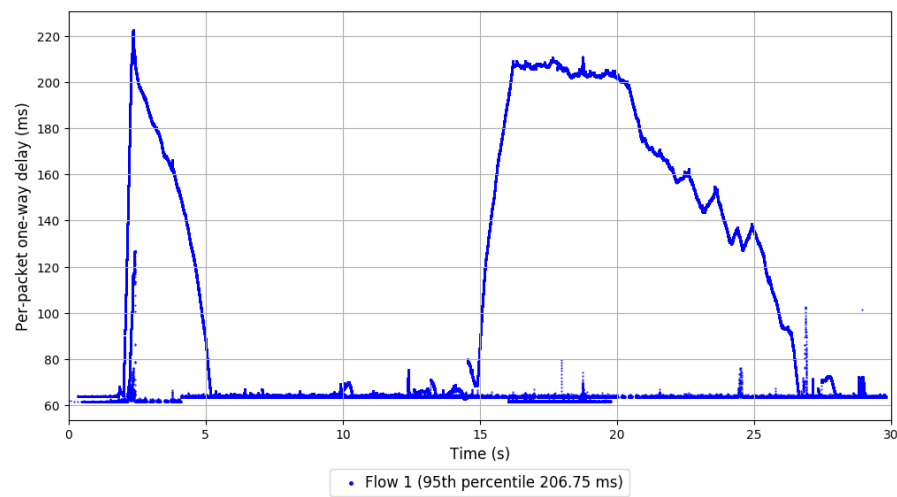
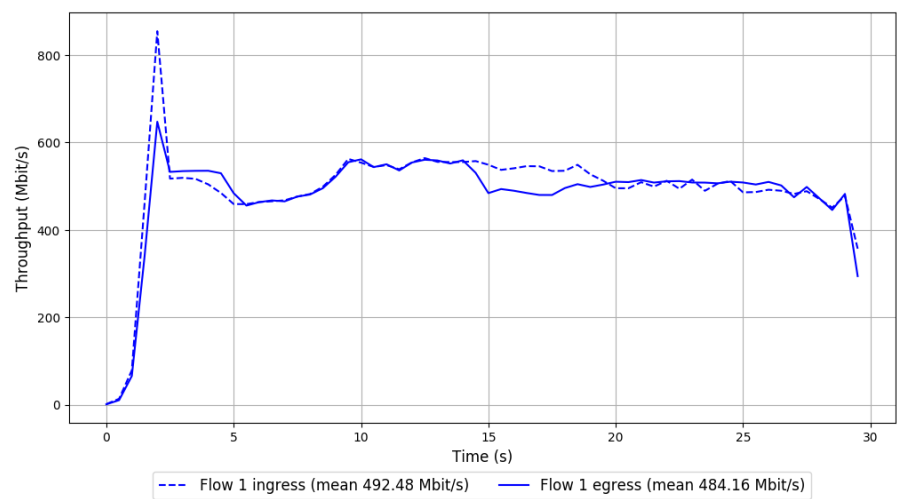
-- Flow 1:

Average throughput: 484.16 Mbit/s

95th percentile per-packet one-way delay: 206.746 ms

Loss rate: 2.10%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-16 16:07:23

End at: 2018-02-16 16:07:53

Below is generated by plot.py at 2018-02-16 20:03:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 474.13 Mbit/s

95th percentile per-packet one-way delay: 157.795 ms

Loss rate: 1.03%

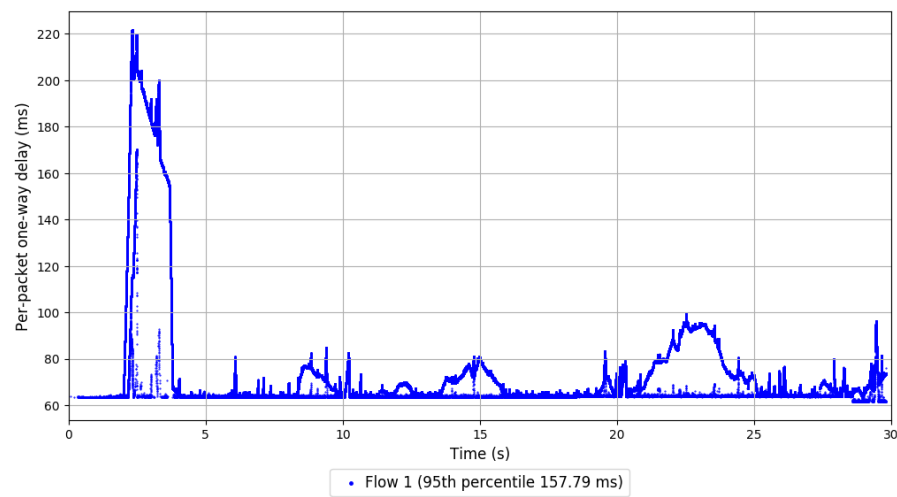
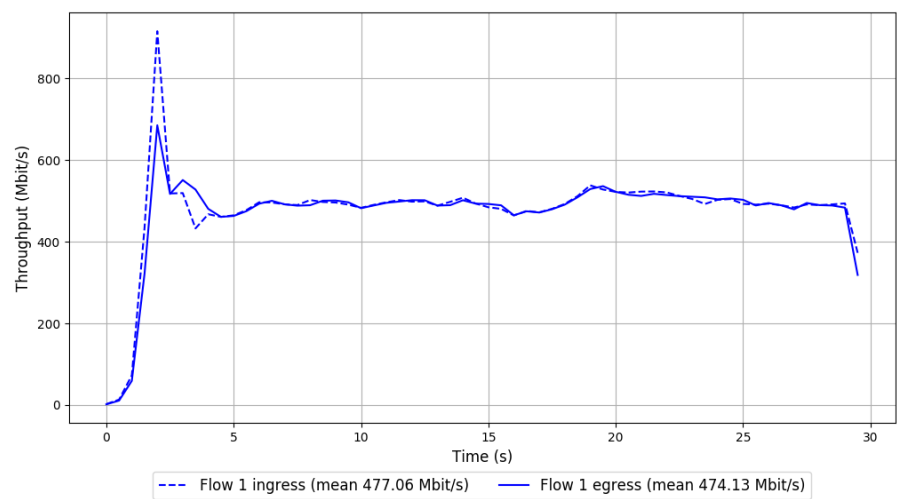
-- Flow 1:

Average throughput: 474.13 Mbit/s

95th percentile per-packet one-way delay: 157.795 ms

Loss rate: 1.03%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-16 16:22:37

End at: 2018-02-16 16:23:08

Below is generated by plot.py at 2018-02-16 20:05:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 499.08 Mbit/s

95th percentile per-packet one-way delay: 118.456 ms

Loss rate: 1.13%

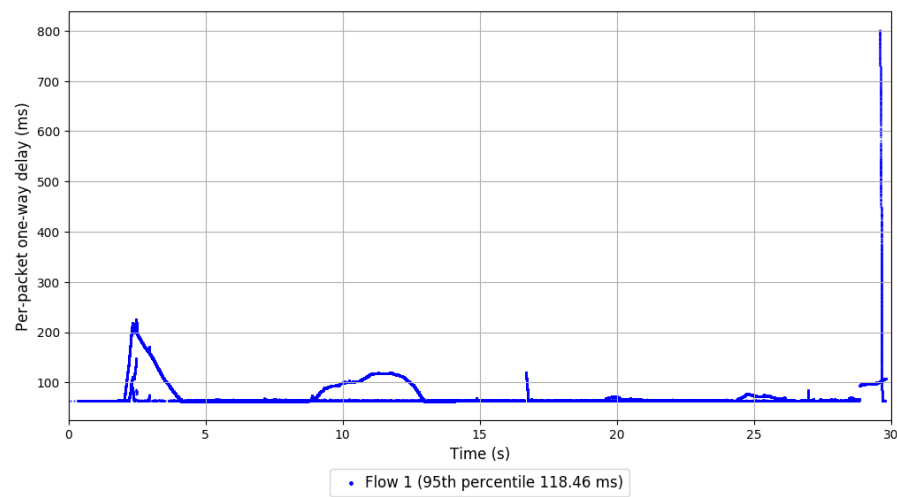
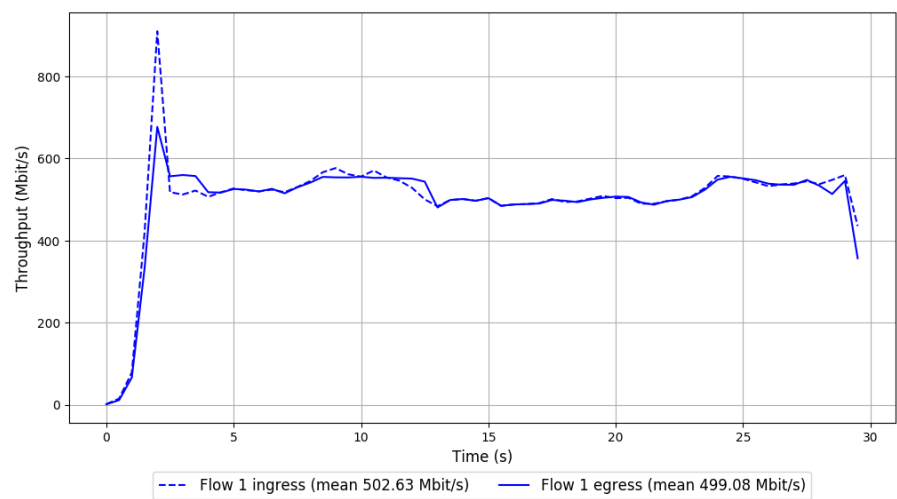
-- Flow 1:

Average throughput: 499.08 Mbit/s

95th percentile per-packet one-way delay: 118.456 ms

Loss rate: 1.13%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-16 16:37:35

End at: 2018-02-16 16:38:05

Below is generated by plot.py at 2018-02-16 20:10:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 469.94 Mbit/s

95th percentile per-packet one-way delay: 200.197 ms

Loss rate: 1.20%

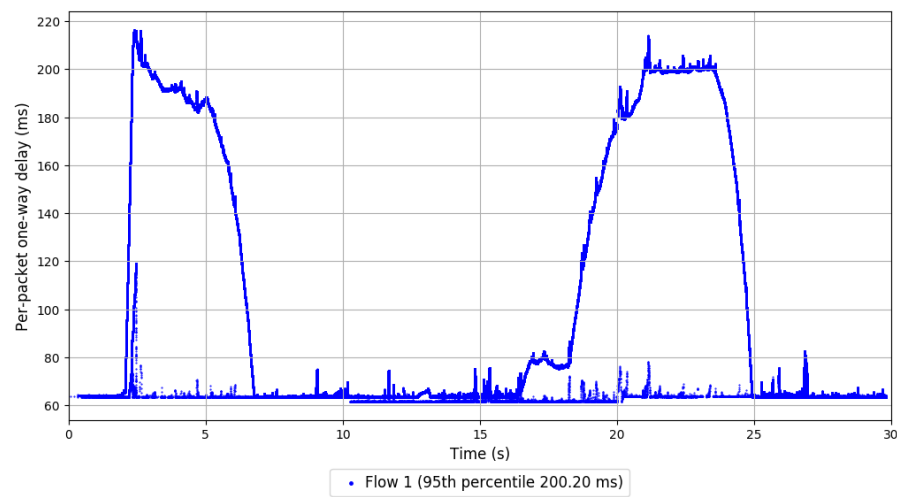
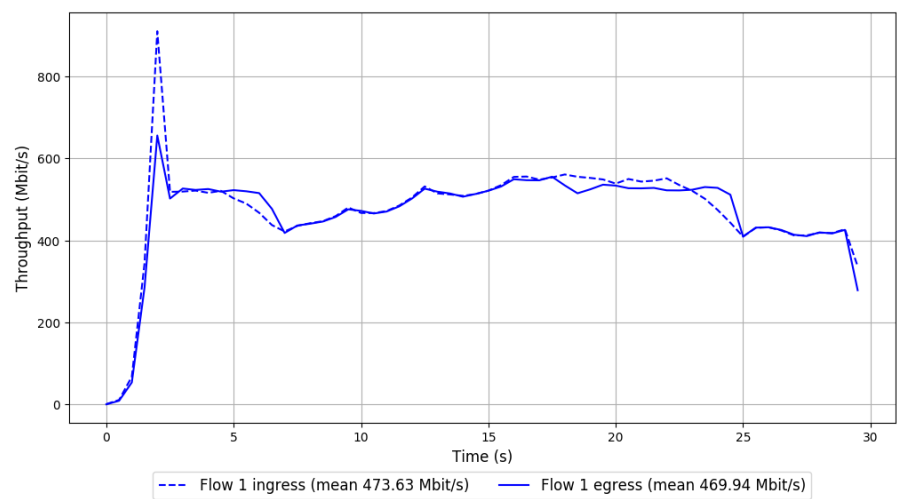
-- Flow 1:

Average throughput: 469.94 Mbit/s

95th percentile per-packet one-way delay: 200.197 ms

Loss rate: 1.20%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-16 16:52:33

End at: 2018-02-16 16:53:03

Below is generated by plot.py at 2018-02-16 20:11:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 488.80 Mbit/s

95th percentile per-packet one-way delay: 205.174 ms

Loss rate: 1.31%

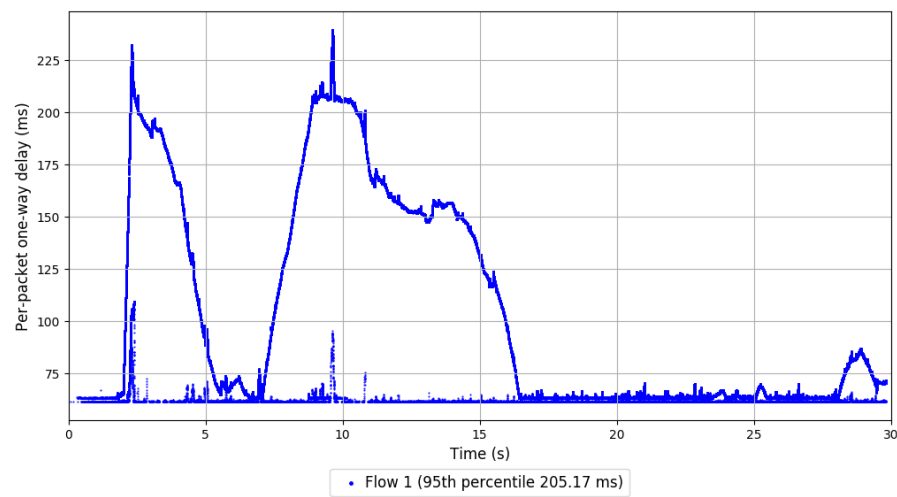
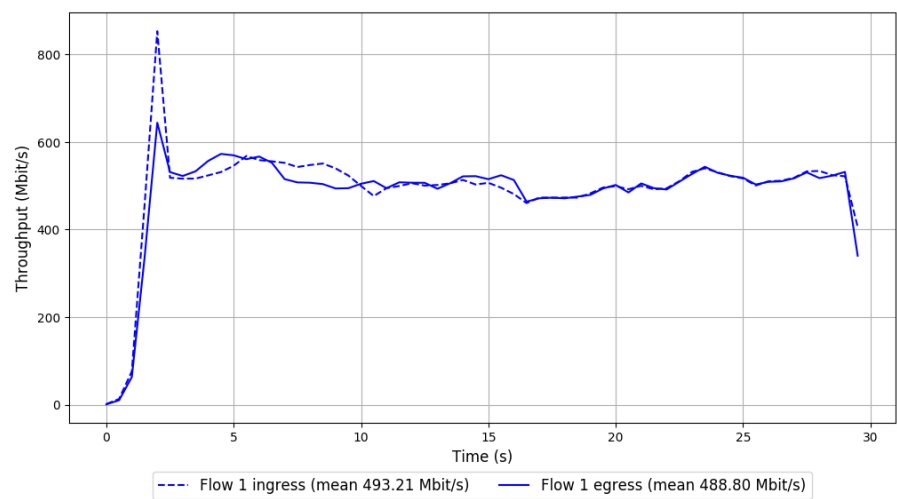
-- Flow 1:

Average throughput: 488.80 Mbit/s

95th percentile per-packet one-way delay: 205.174 ms

Loss rate: 1.31%

Run 10: Report of PCC — Data Link

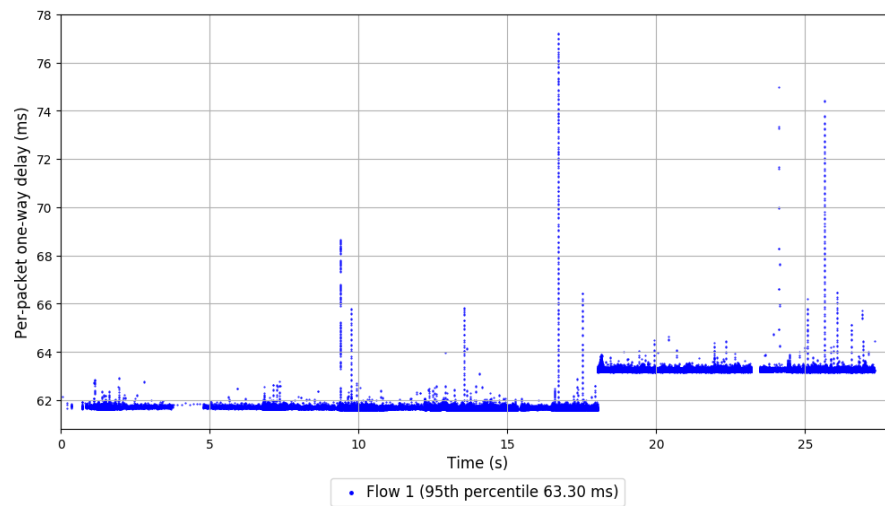
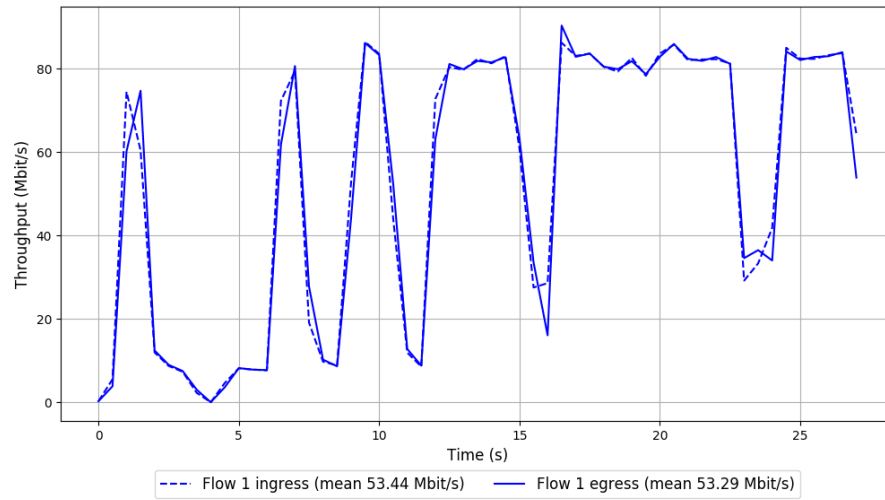


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-02-16 14:45:21
End at: 2018-02-16 14:45:51

# Below is generated by plot.py at 2018-02-16 20:11:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.29 Mbit/s
95th percentile per-packet one-way delay: 63.299 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 53.29 Mbit/s
95th percentile per-packet one-way delay: 63.299 ms
Loss rate: 0.72%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-16 15:00:26

End at: 2018-02-16 15:00:56

Below is generated by plot.py at 2018-02-16 20:11:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.89 Mbit/s

95th percentile per-packet one-way delay: 63.313 ms

Loss rate: 0.73%

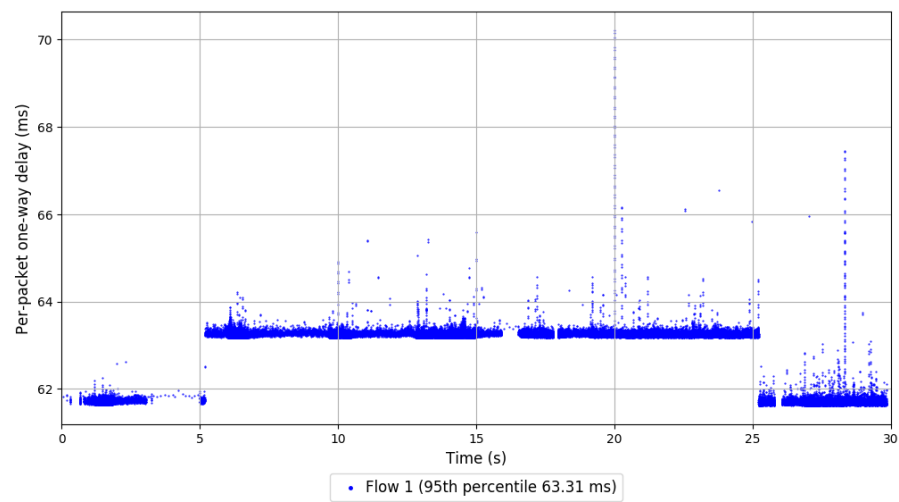
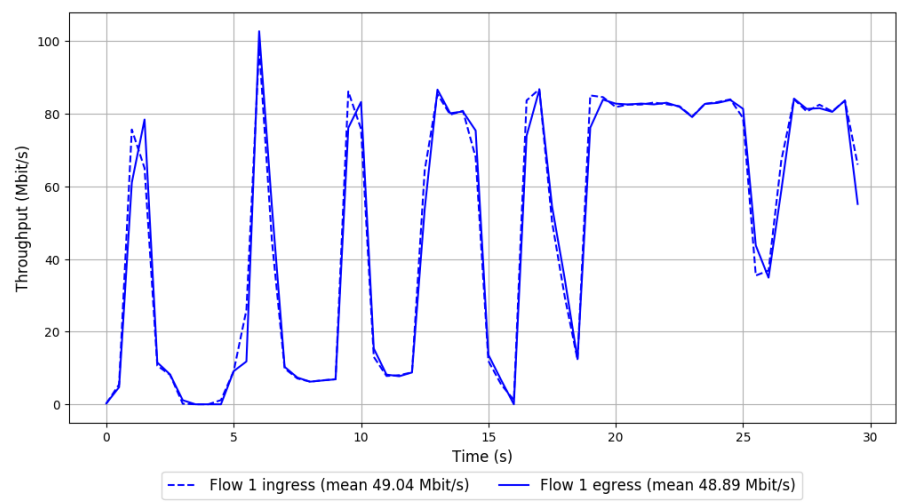
-- Flow 1:

Average throughput: 48.89 Mbit/s

95th percentile per-packet one-way delay: 63.313 ms

Loss rate: 0.73%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-16 15:15:32

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

Below is generated by plot.py at 2018-02-16 20:11:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.83 Mbit/s

95th percentile per-packet one-way delay: 63.461 ms

Loss rate: 0.67%

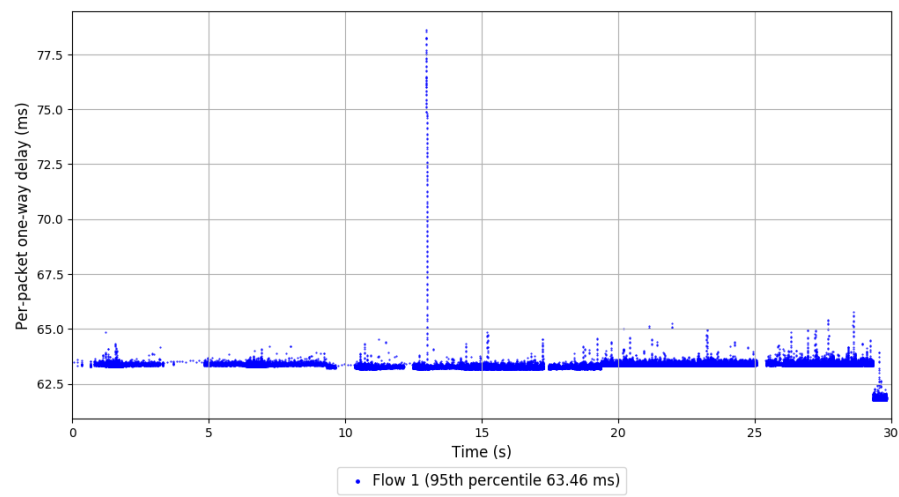
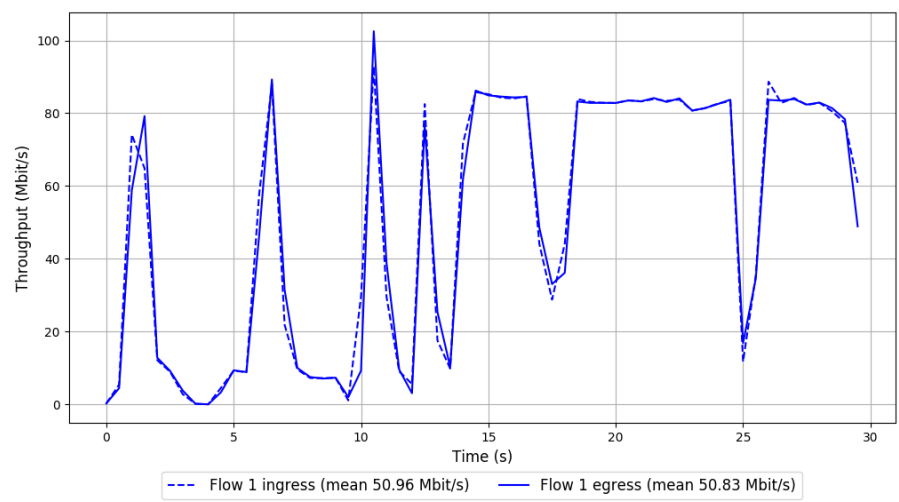
-- Flow 1:

Average throughput: 50.83 Mbit/s

95th percentile per-packet one-way delay: 63.461 ms

Loss rate: 0.67%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-16 15:30:20

End at: 2018-02-16 15:30:50

Below is generated by plot.py at 2018-02-16 20:11:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.59 Mbit/s

95th percentile per-packet one-way delay: 63.659 ms

Loss rate: 0.69%

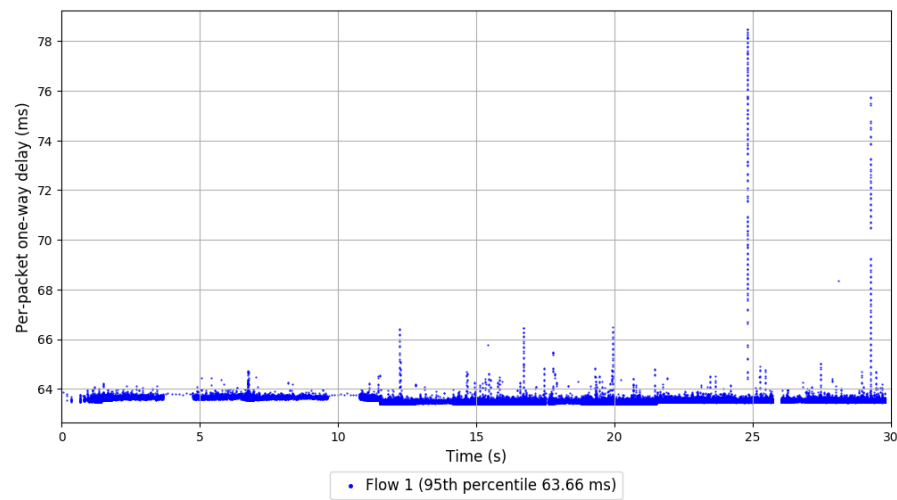
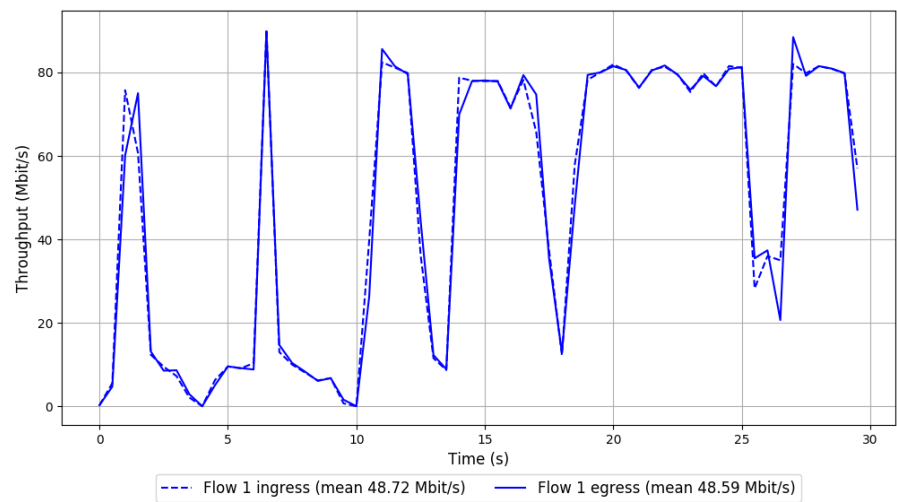
-- Flow 1:

Average throughput: 48.59 Mbit/s

95th percentile per-packet one-way delay: 63.659 ms

Loss rate: 0.69%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-16 15:45:01

End at: 2018-02-16 15:45:31

Below is generated by plot.py at 2018-02-16 20:11:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.32 Mbit/s

95th percentile per-packet one-way delay: 63.665 ms

Loss rate: 0.57%

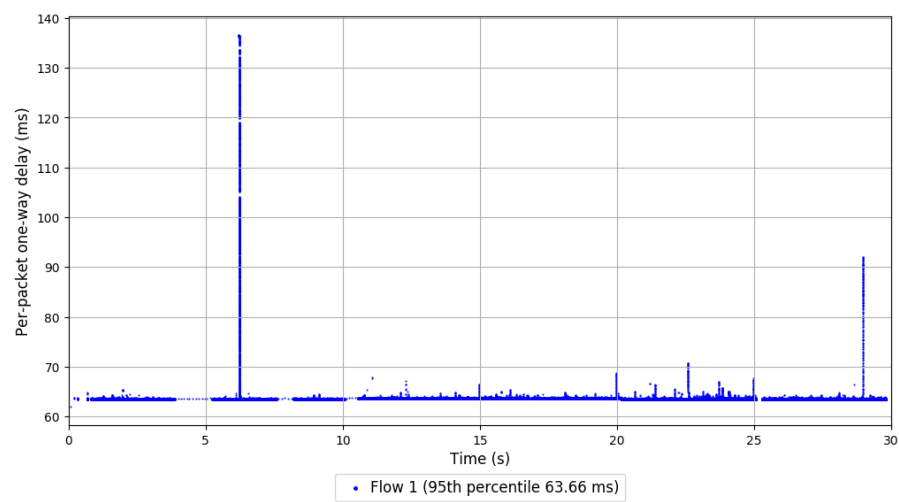
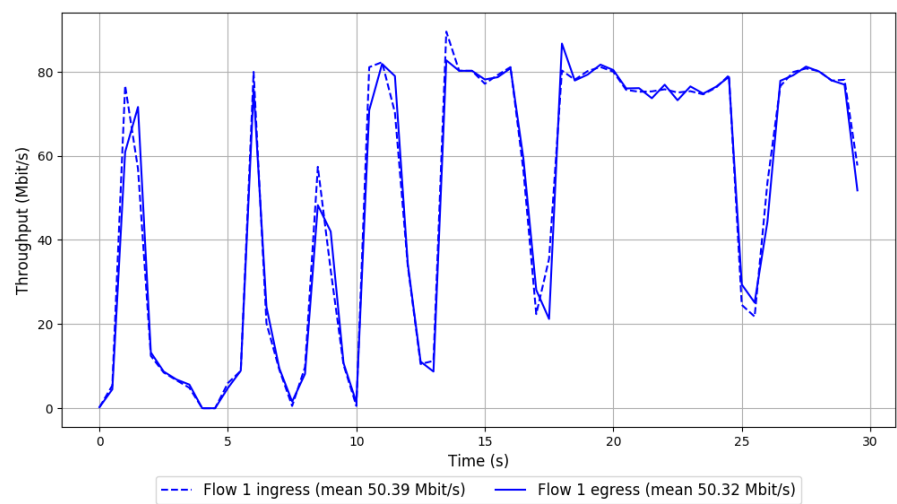
-- Flow 1:

Average throughput: 50.32 Mbit/s

95th percentile per-packet one-way delay: 63.665 ms

Loss rate: 0.57%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-16 15:59:50

End at: 2018-02-16 16:00:20

Below is generated by plot.py at 2018-02-16 20:11:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.50 Mbit/s

95th percentile per-packet one-way delay: 63.794 ms

Loss rate: 0.84%

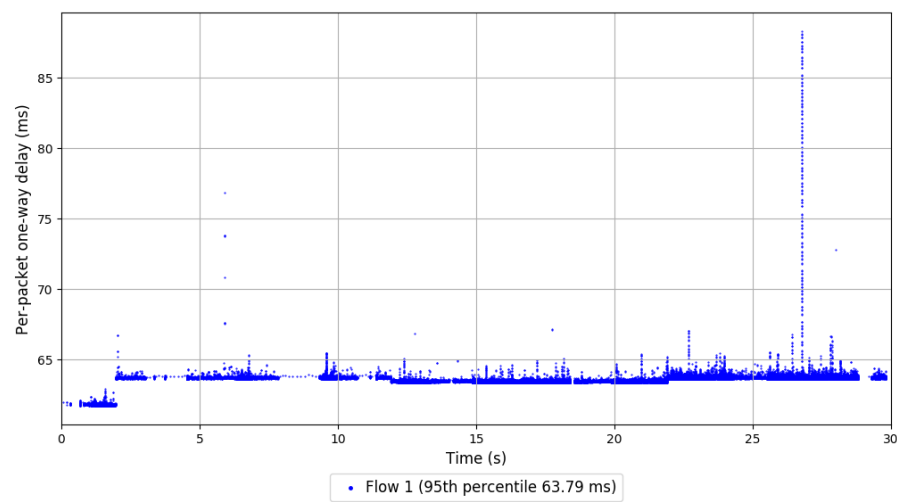
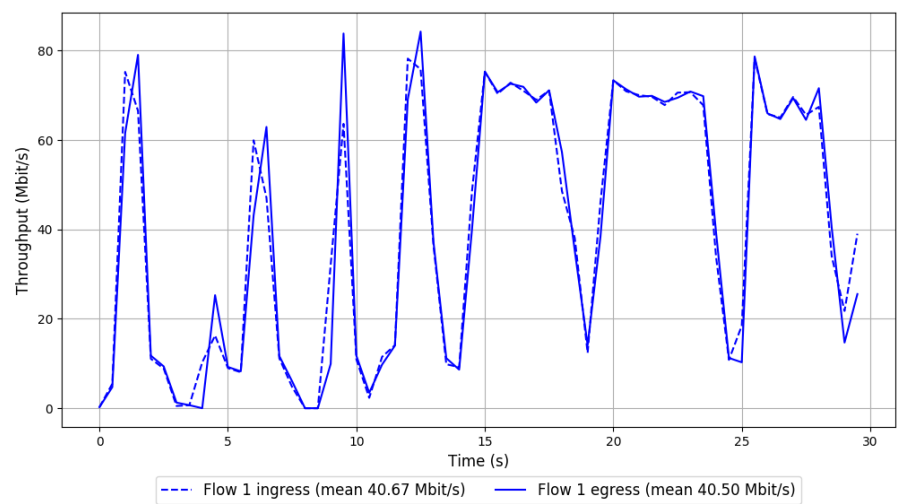
-- Flow 1:

Average throughput: 40.50 Mbit/s

95th percentile per-packet one-way delay: 63.794 ms

Loss rate: 0.84%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-16 16:14:48

End at: 2018-02-16 16:15:18

Below is generated by plot.py at 2018-02-16 20:11:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.84 Mbit/s

95th percentile per-packet one-way delay: 63.735 ms

Loss rate: 0.52%

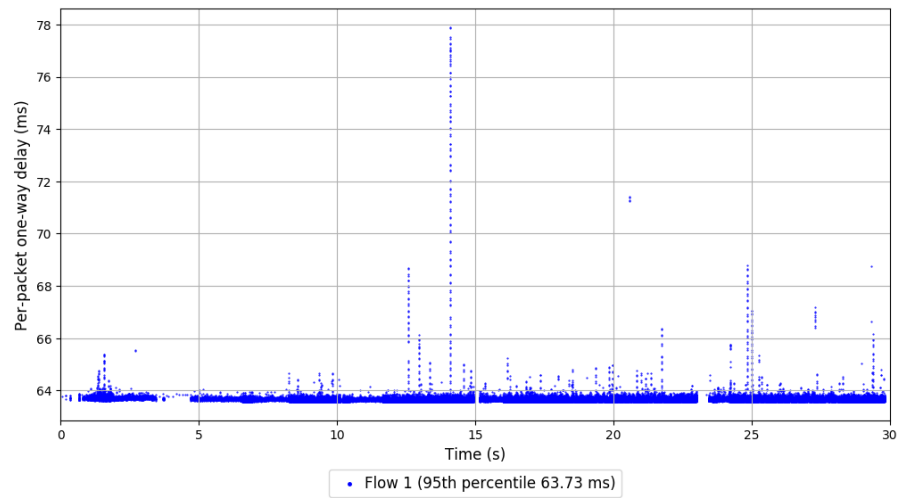
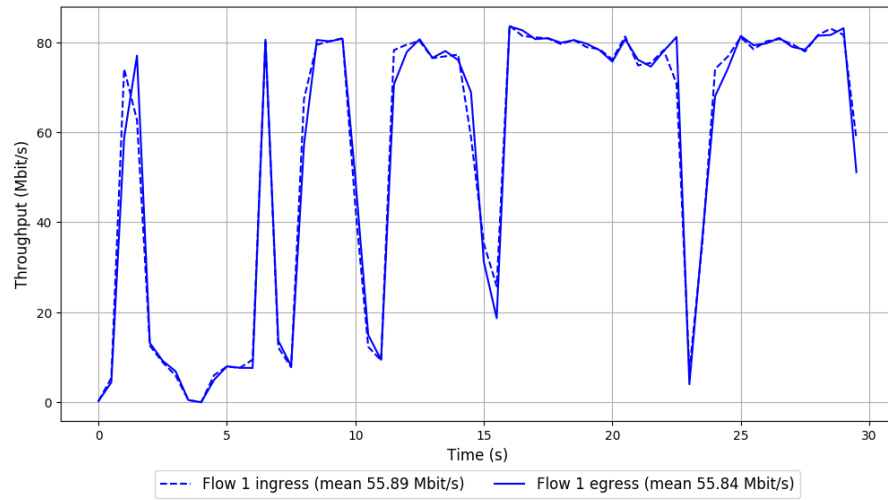
-- Flow 1:

Average throughput: 55.84 Mbit/s

95th percentile per-packet one-way delay: 63.735 ms

Loss rate: 0.52%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-16 16:29:54

End at: 2018-02-16 16:30:24

Below is generated by plot.py at 2018-02-16 20:11:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.67 Mbit/s

95th percentile per-packet one-way delay: 63.637 ms

Loss rate: 0.68%

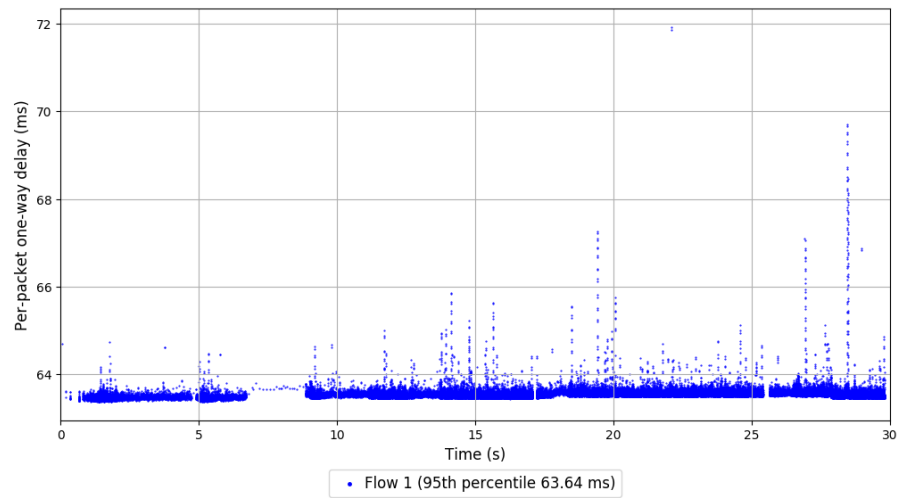
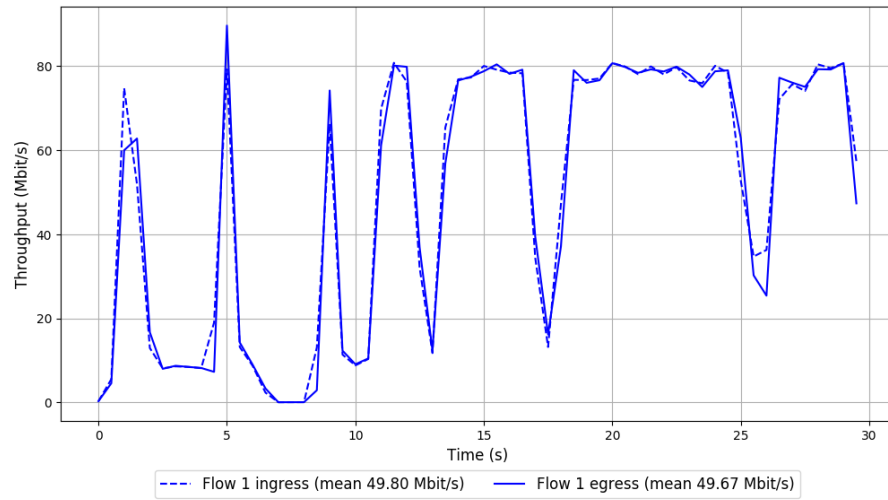
-- Flow 1:

Average throughput: 49.67 Mbit/s

95th percentile per-packet one-way delay: 63.637 ms

Loss rate: 0.68%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-16 16:44:50

End at: 2018-02-16 16:45:20

Below is generated by plot.py at 2018-02-16 20:11:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.13 Mbit/s

95th percentile per-packet one-way delay: 61.703 ms

Loss rate: 0.64%

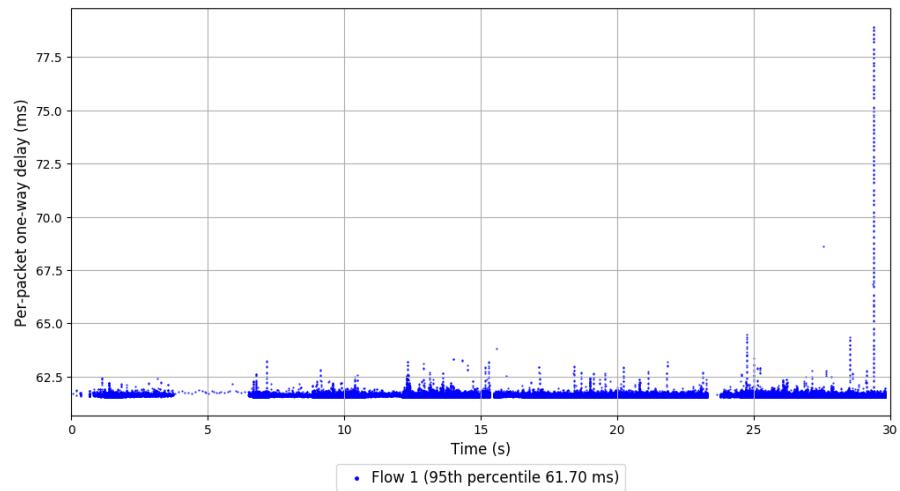
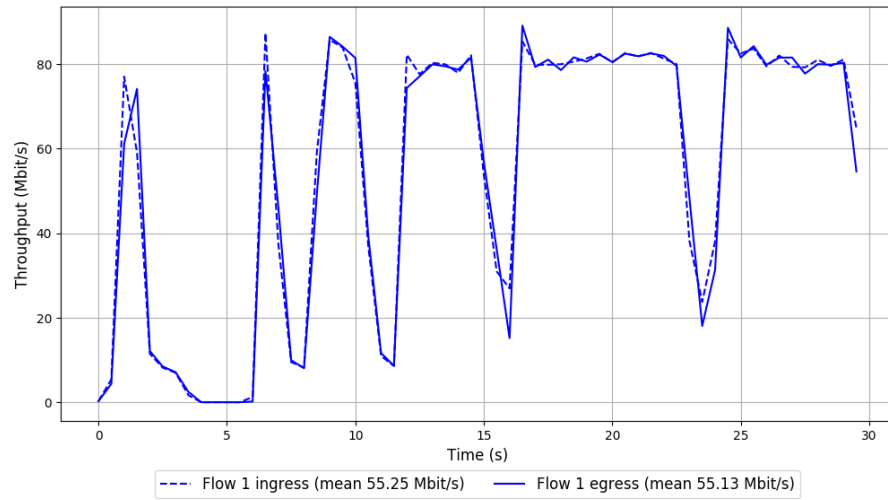
-- Flow 1:

Average throughput: 55.13 Mbit/s

95th percentile per-packet one-way delay: 61.703 ms

Loss rate: 0.64%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-02-16 16:59:50

End at: 2018-02-16 17:00:20

Below is generated by plot.py at 2018-02-16 20:11:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.93 Mbit/s

95th percentile per-packet one-way delay: 61.585 ms

Loss rate: 0.62%

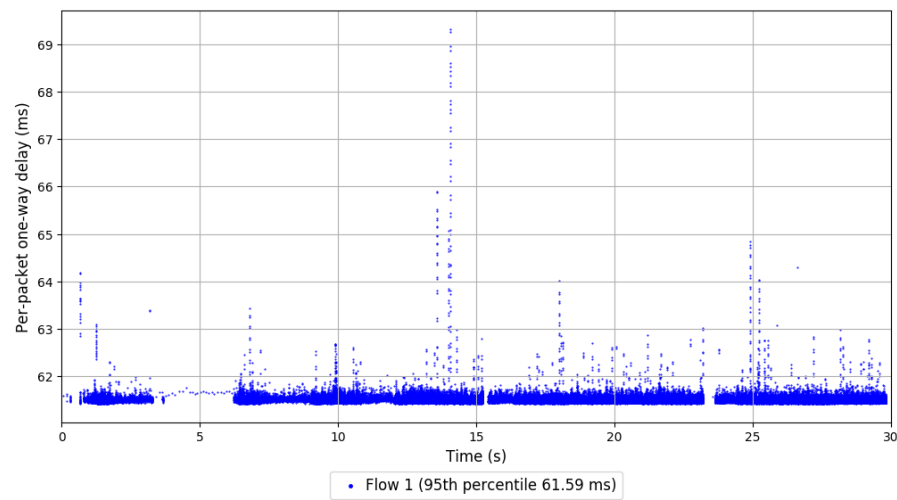
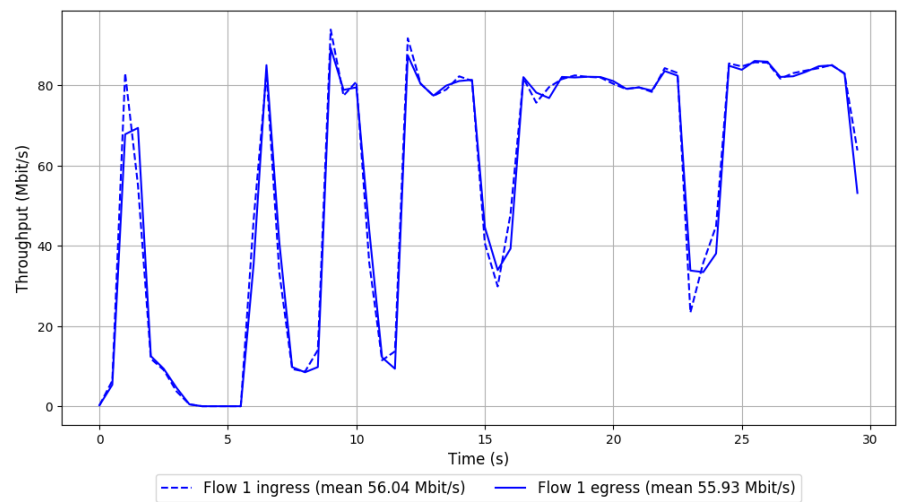
-- Flow 1:

Average throughput: 55.93 Mbit/s

95th percentile per-packet one-way delay: 61.585 ms

Loss rate: 0.62%

Run 10: Report of QUIC Cubic — Data Link

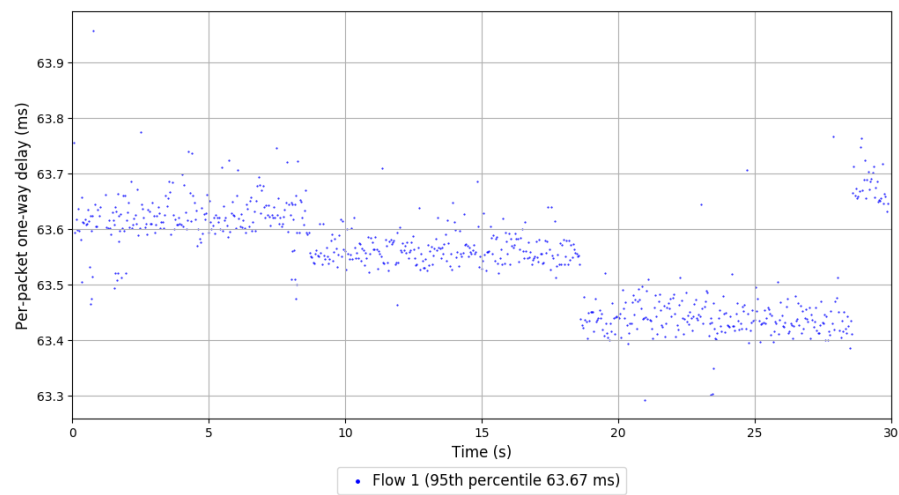
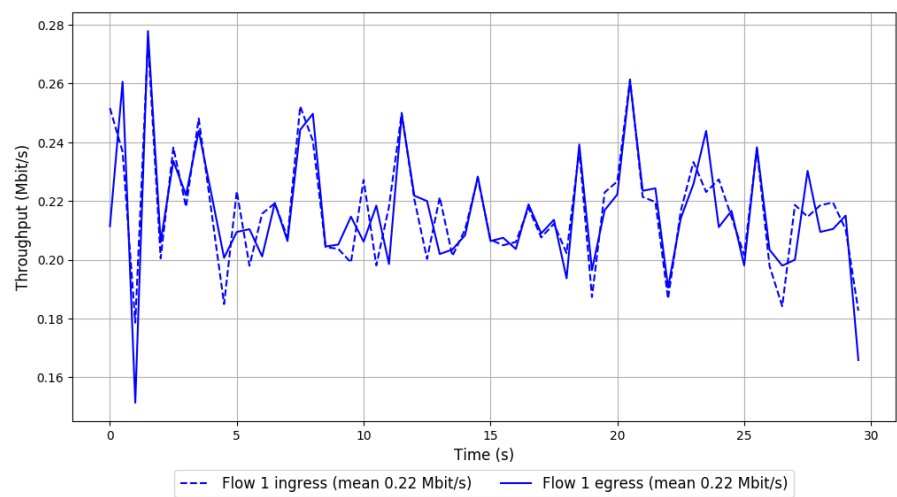


```
Run 1: Statistics of SCReAM

Start at: 2018-02-16 14:51:33
End at: 2018-02-16 14:52:03

# Below is generated by plot.py at 2018-02-16 20:11:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.673 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.673 ms
Loss rate: 0.38%
```

Run 1: Report of SReAM — Data Link

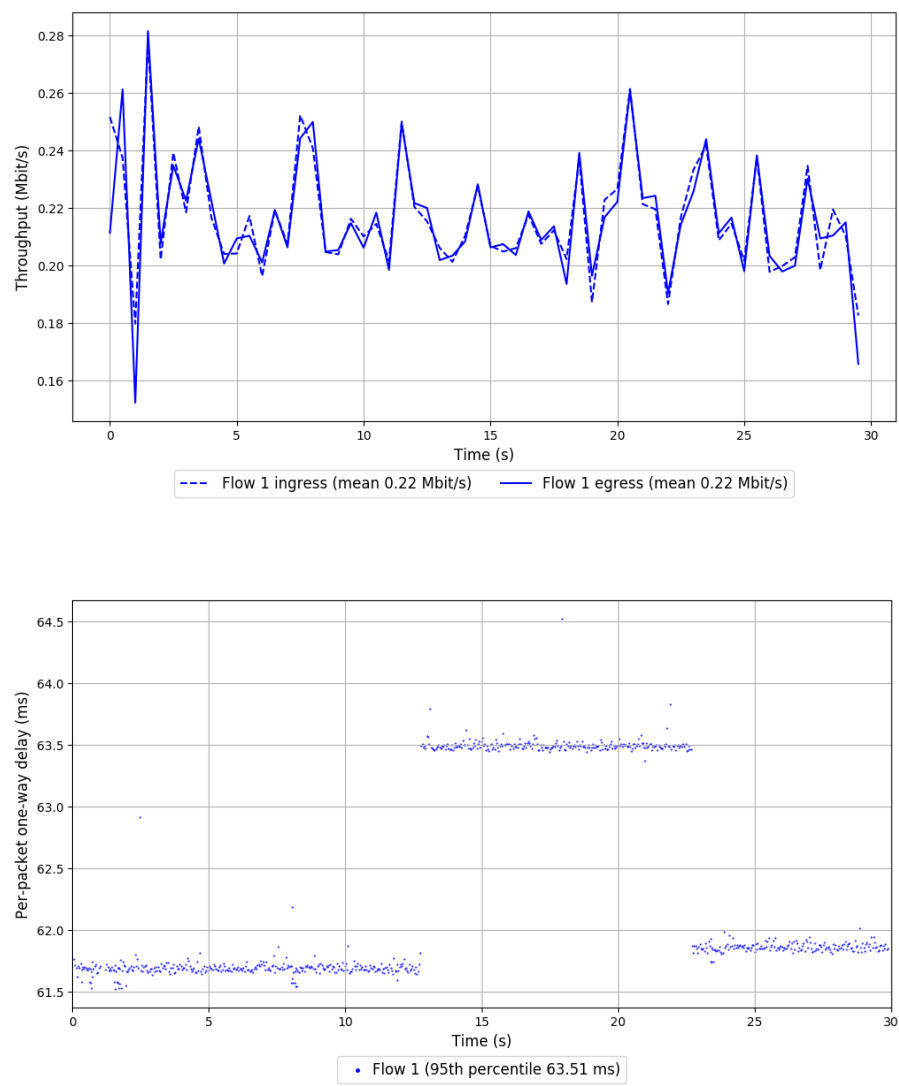


```
Run 2: Statistics of SCReAM

Start at: 2018-02-16 15:06:39
End at: 2018-02-16 15:07:09

# Below is generated by plot.py at 2018-02-16 20:11:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.514 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.514 ms
Loss rate: 0.38%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-02-16 15:21:49

End at: 2018-02-16 15:22:19

Below is generated by plot.py at 2018-02-16 20:11:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.743 ms

Loss rate: 0.38%

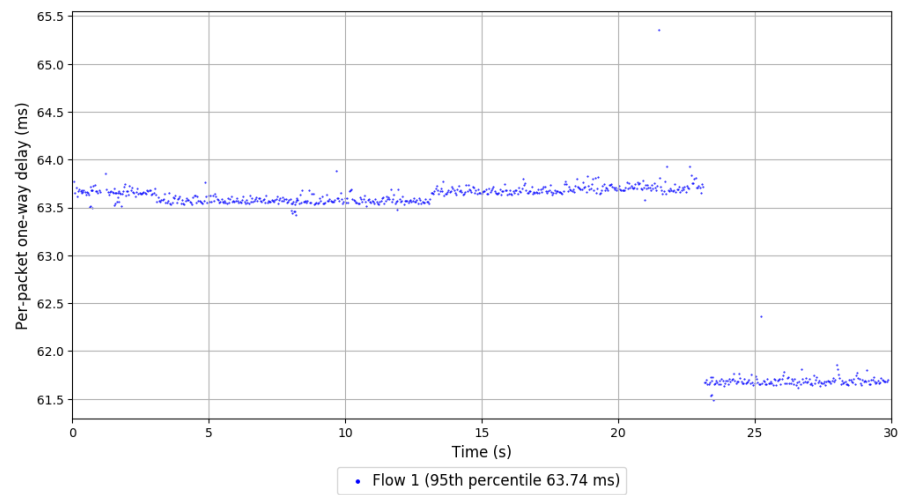
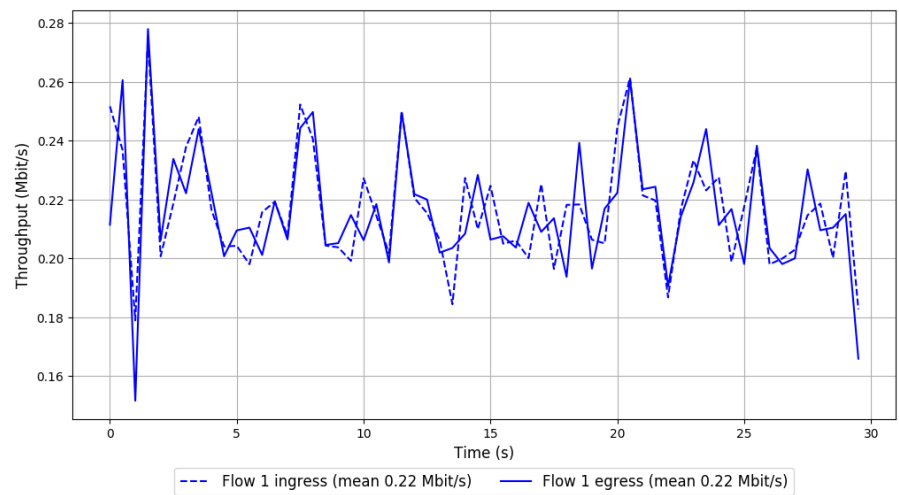
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.743 ms

Loss rate: 0.38%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-02-16 15:36:16

End at: 2018-02-16 15:36:46

Below is generated by plot.py at 2018-02-16 20:11:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.805 ms

Loss rate: 0.38%

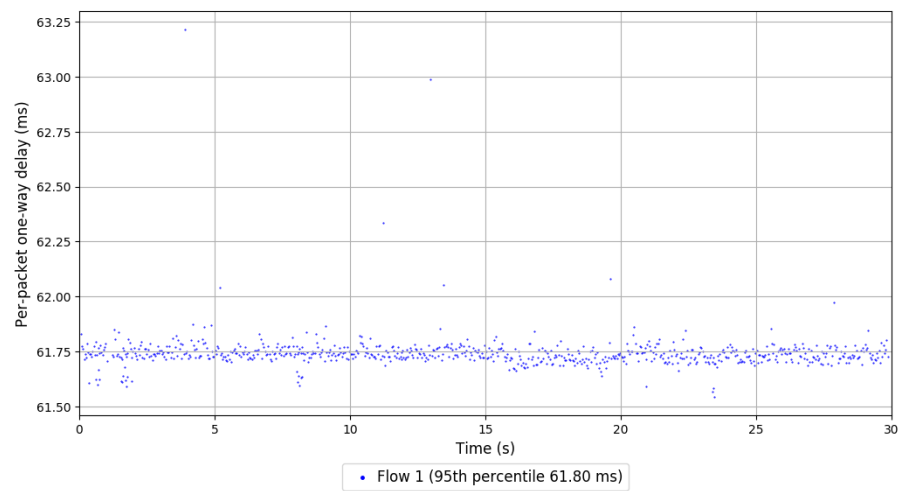
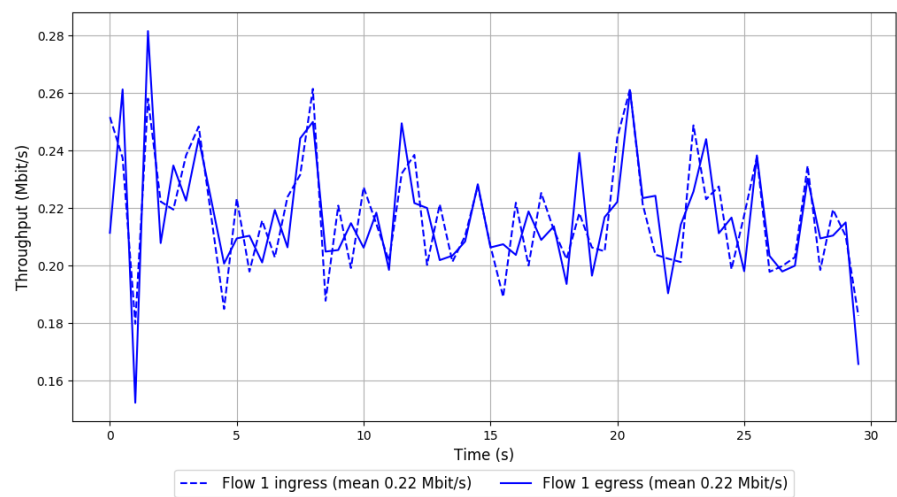
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.805 ms

Loss rate: 0.38%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-16 15:51:07

End at: 2018-02-16 15:51:37

Below is generated by plot.py at 2018-02-16 20:11:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.691 ms

Loss rate: 0.38%

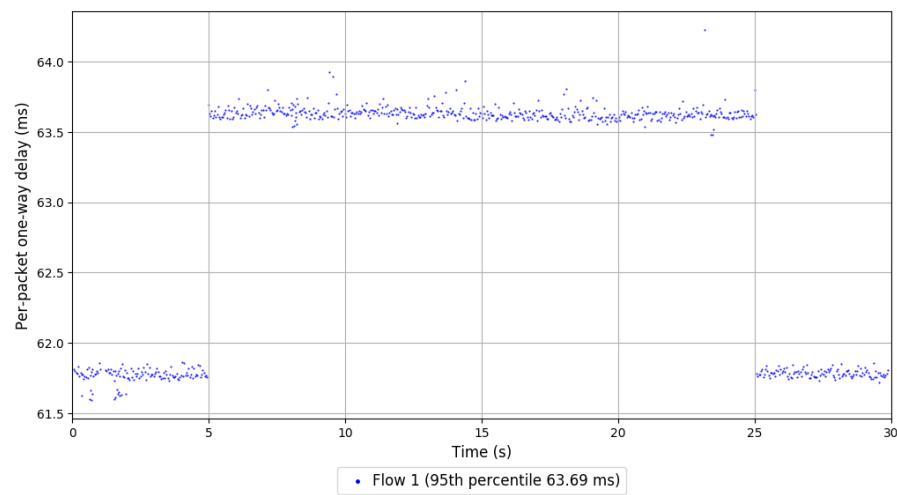
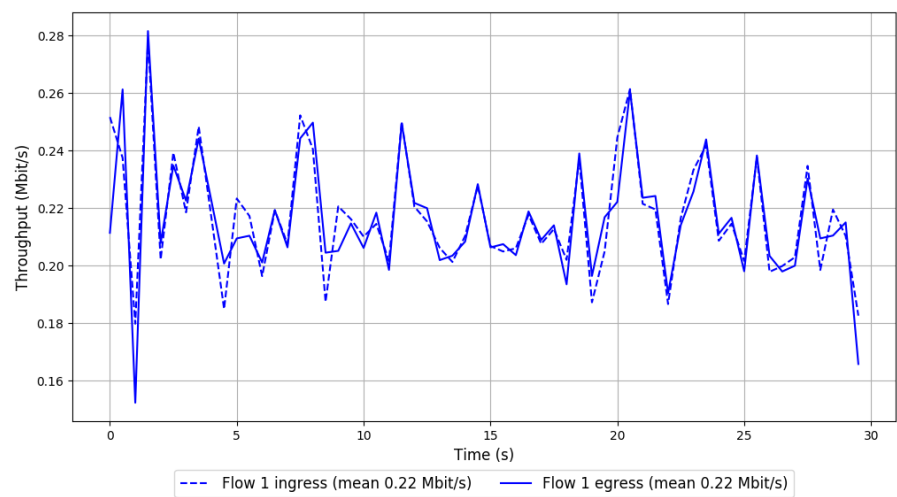
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.691 ms

Loss rate: 0.38%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-02-16 16:05:53

End at: 2018-02-16 16:06:23

Below is generated by plot.py at 2018-02-16 20:11:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.678 ms

Loss rate: 0.38%

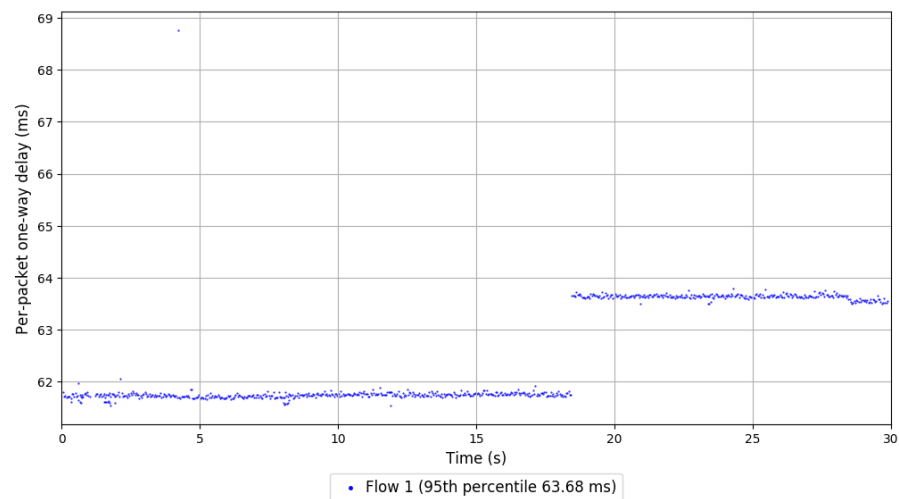
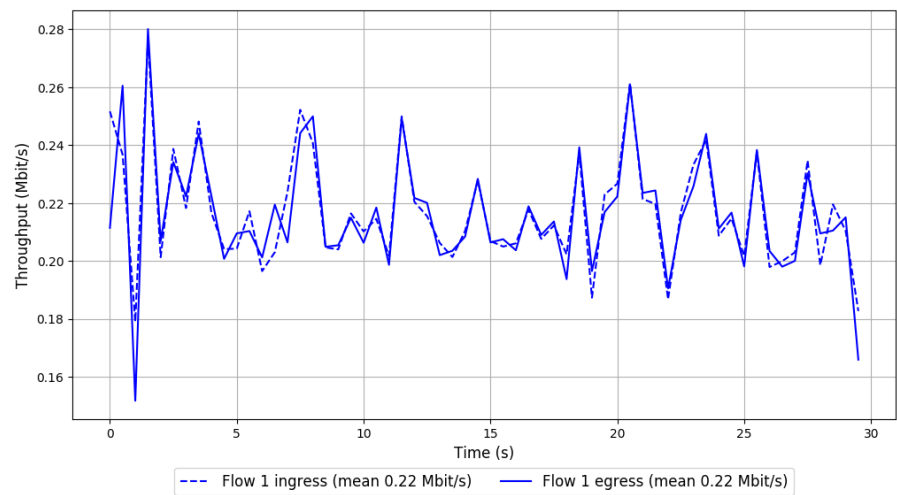
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.678 ms

Loss rate: 0.38%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-02-16 16:21:04

End at: 2018-02-16 16:21:34

Below is generated by plot.py at 2018-02-16 20:11:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.670 ms

Loss rate: 0.38%

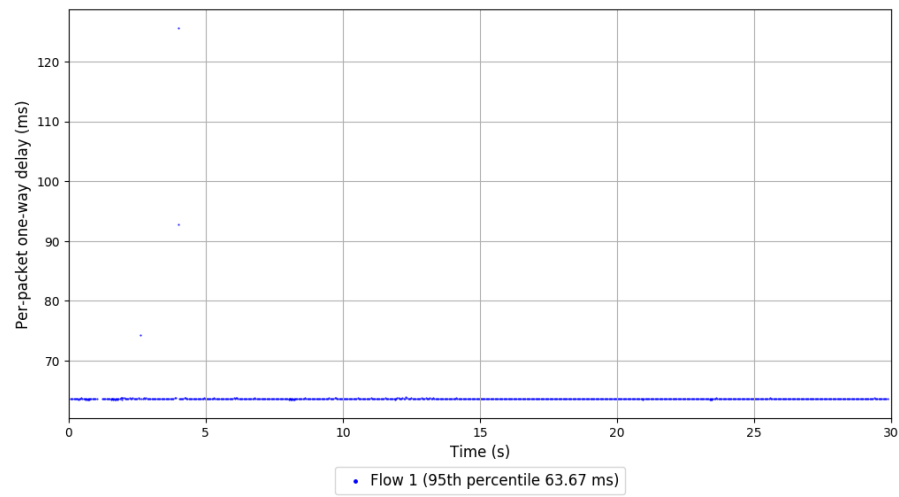
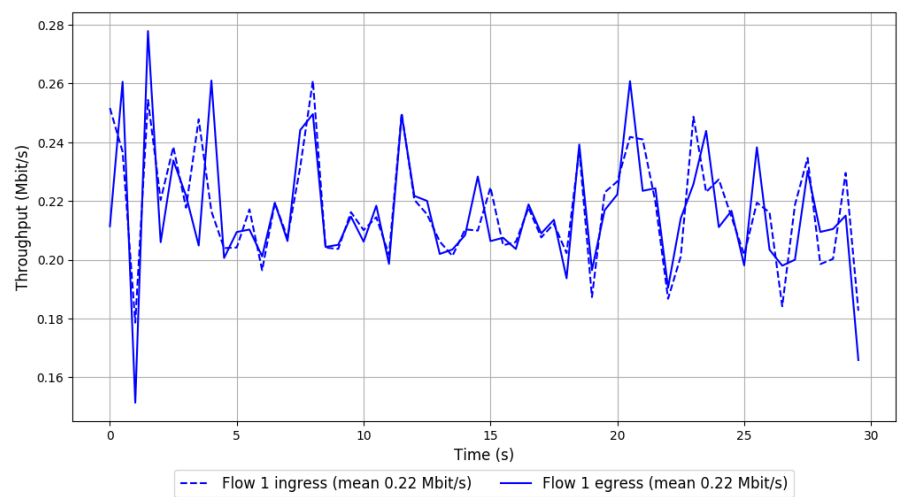
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.670 ms

Loss rate: 0.38%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-16 16:36:06

End at: 2018-02-16 16:36:36

Below is generated by plot.py at 2018-02-16 20:11:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.748 ms

Loss rate: 0.38%

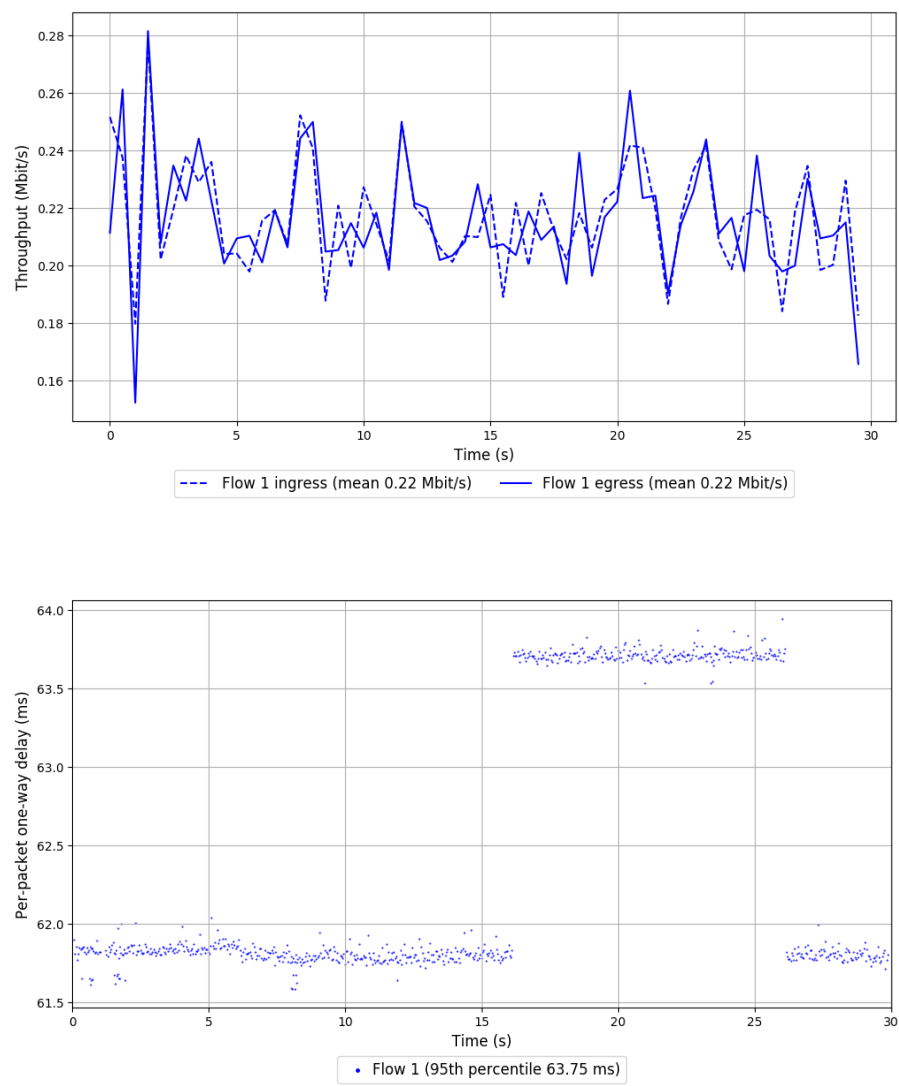
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.748 ms

Loss rate: 0.38%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

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

End at: 2018-02-16 16:51:30

Below is generated by plot.py at 2018-02-16 20:11:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.796 ms

Loss rate: 0.38%

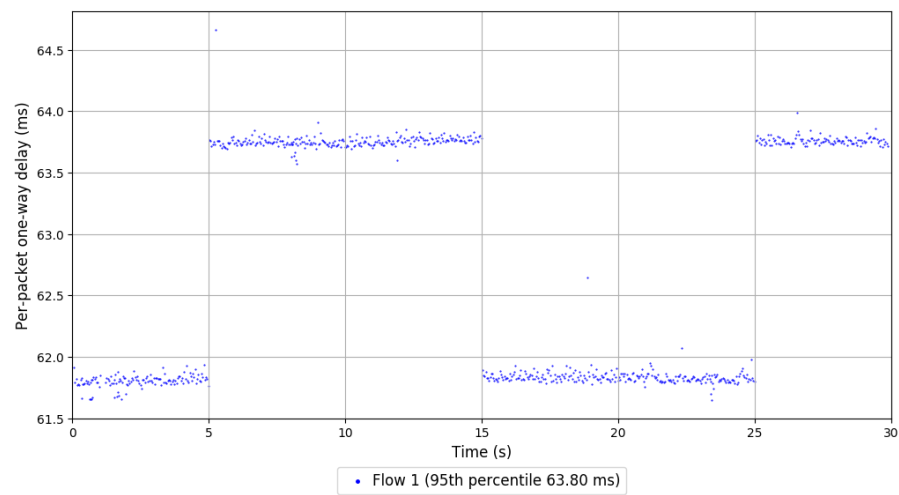
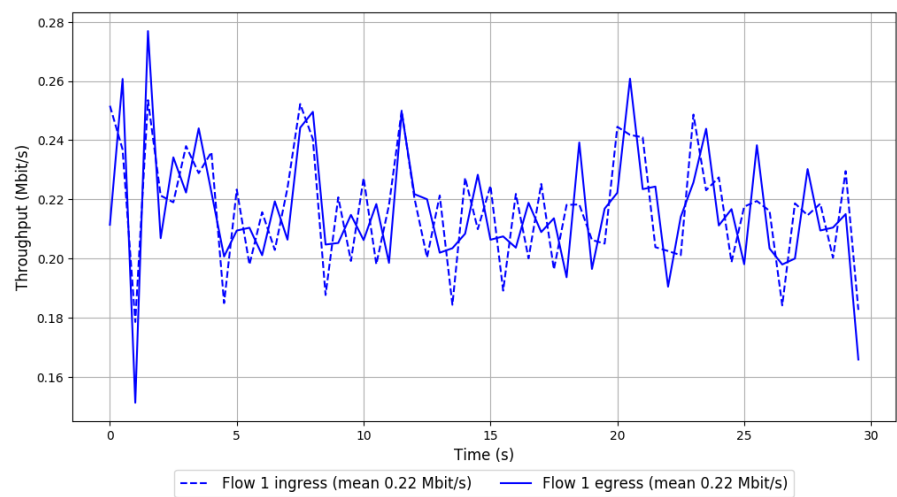
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.796 ms

Loss rate: 0.38%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-16 17:05:50

End at: 2018-02-16 17:06:20

Below is generated by plot.py at 2018-02-16 20:11:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.661 ms

Loss rate: 0.38%

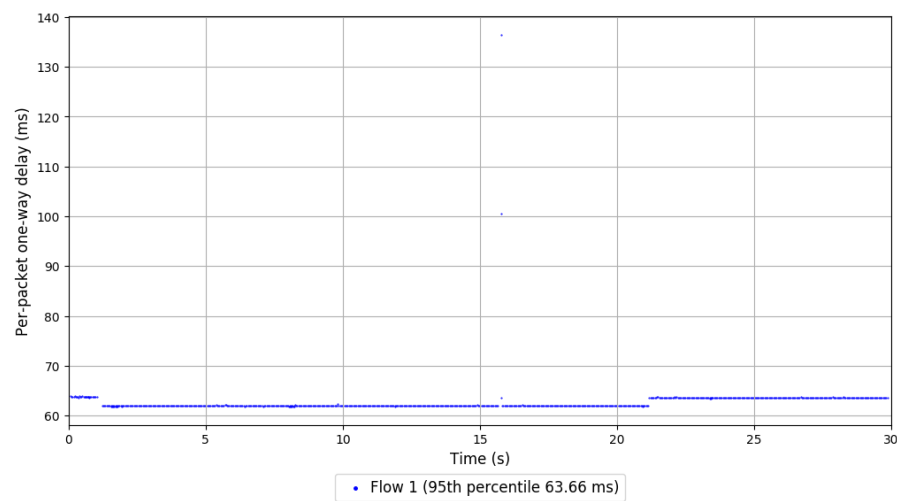
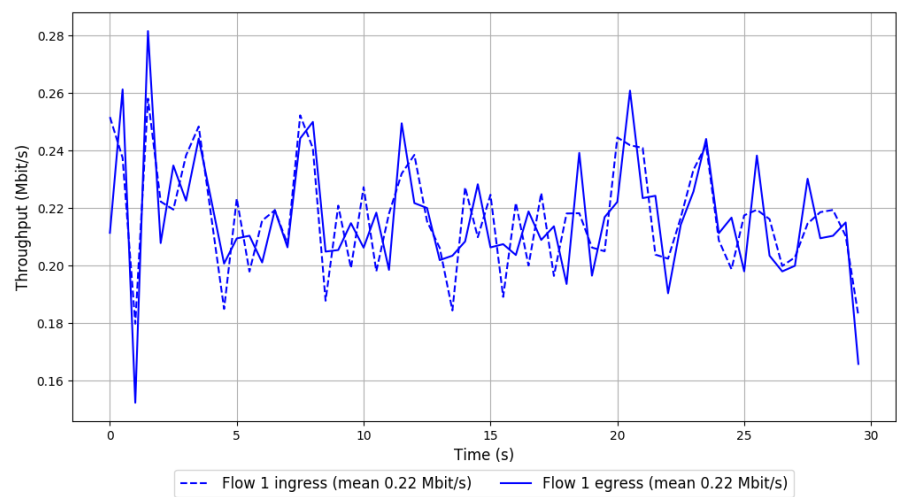
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.661 ms

Loss rate: 0.38%

Run 10: Report of SReAM — Data Link

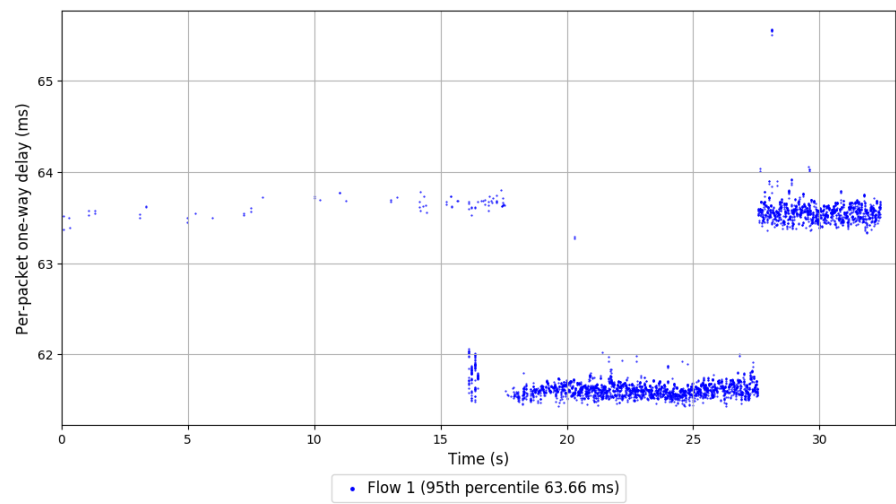
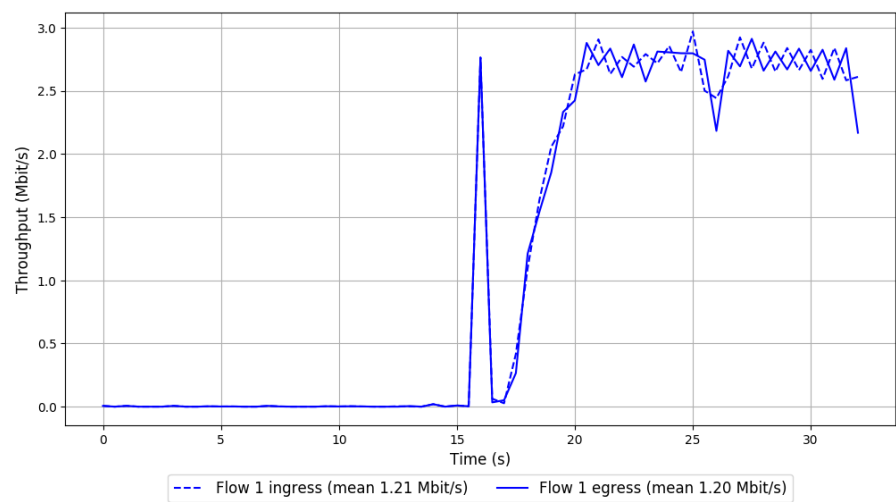


```
Run 1: Statistics of WebRTC media

Start at: 2018-02-16 14:43:00
End at: 2018-02-16 14:43:30

# Below is generated by plot.py at 2018-02-16 20:11:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.20 Mbit/s
95th percentile per-packet one-way delay: 63.660 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 1.20 Mbit/s
95th percentile per-packet one-way delay: 63.660 ms
Loss rate: 0.83%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-16 14:57:57

End at: 2018-02-16 14:58:27

Below is generated by plot.py at 2018-02-16 20:11:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.868 ms

Loss rate: 0.43%

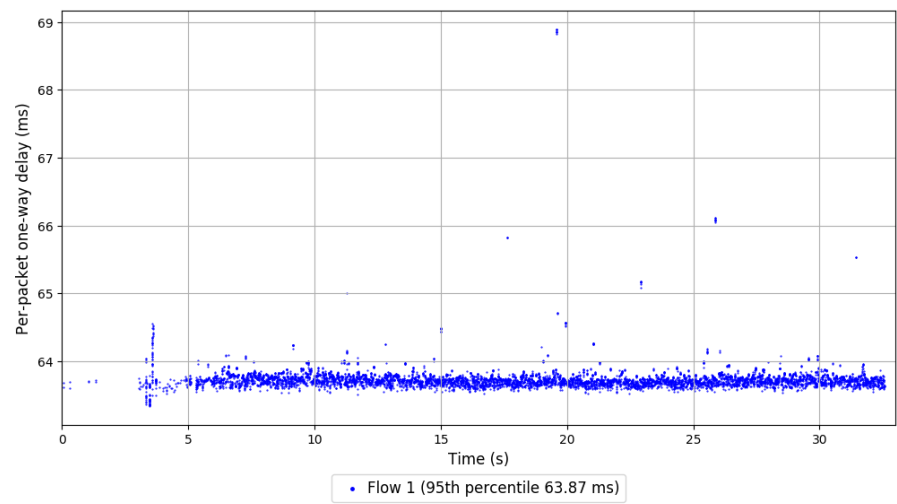
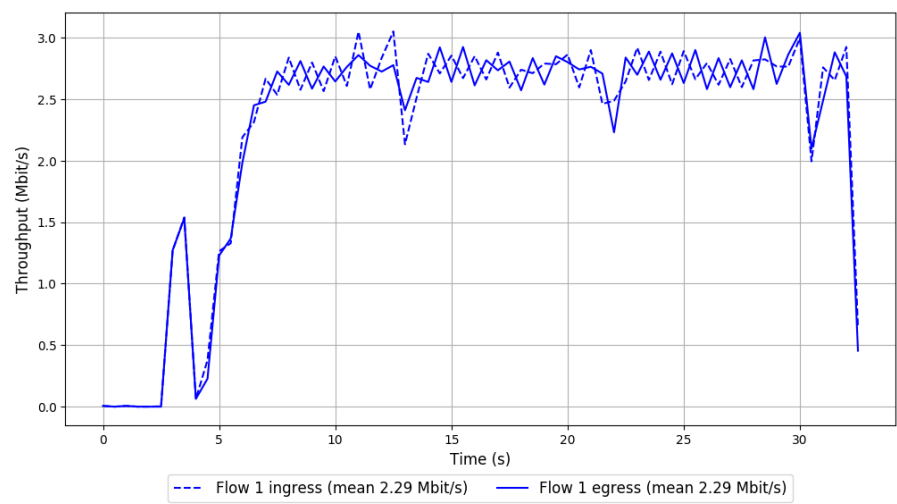
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.868 ms

Loss rate: 0.43%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-16 15:13:04

End at: 2018-02-16 15:13:34

Below is generated by plot.py at 2018-02-16 20:11:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.849 ms

Loss rate: 0.48%

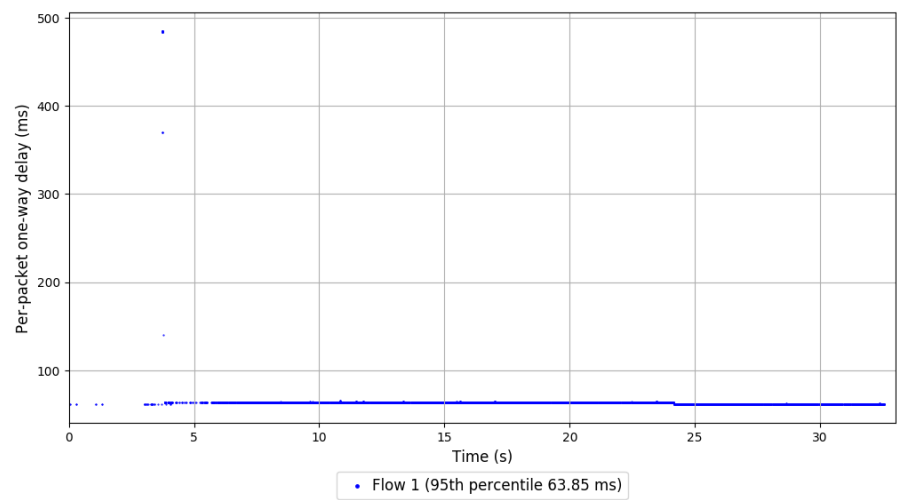
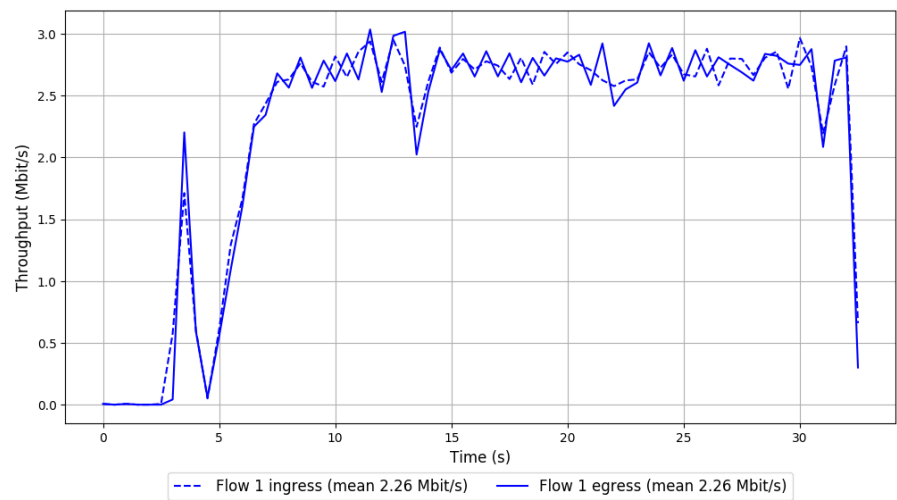
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.849 ms

Loss rate: 0.48%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-16 15:27:53

End at: 2018-02-16 15:28:23

Below is generated by plot.py at 2018-02-16 20:11:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.658 ms

Loss rate: 0.53%

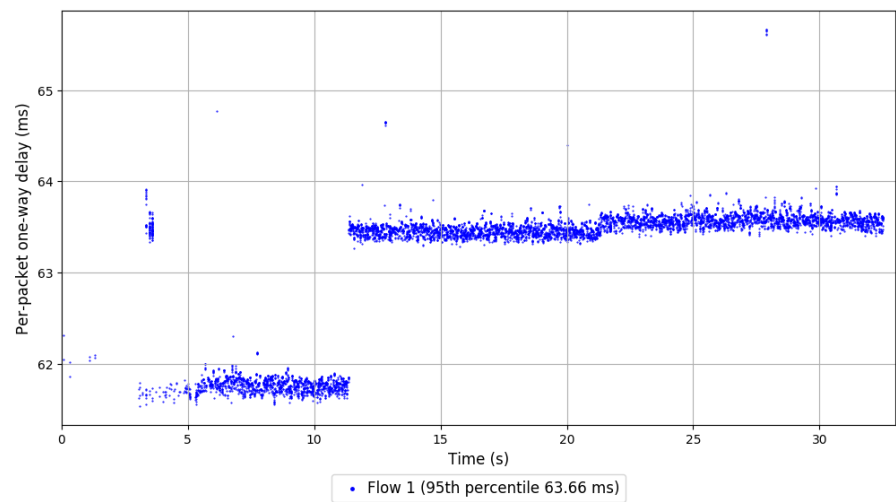
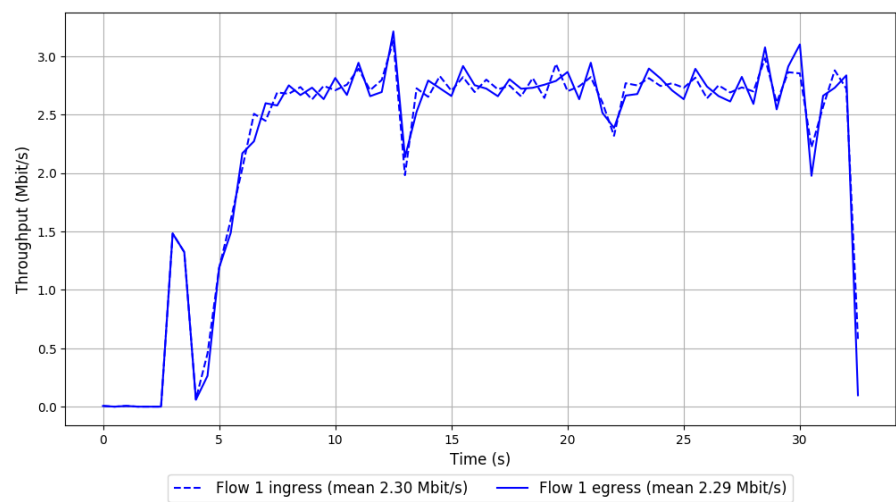
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.658 ms

Loss rate: 0.53%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-16 15:42:34

End at: 2018-02-16 15:43:04

Below is generated by plot.py at 2018-02-16 20:11:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 63.694 ms

Loss rate: 0.44%

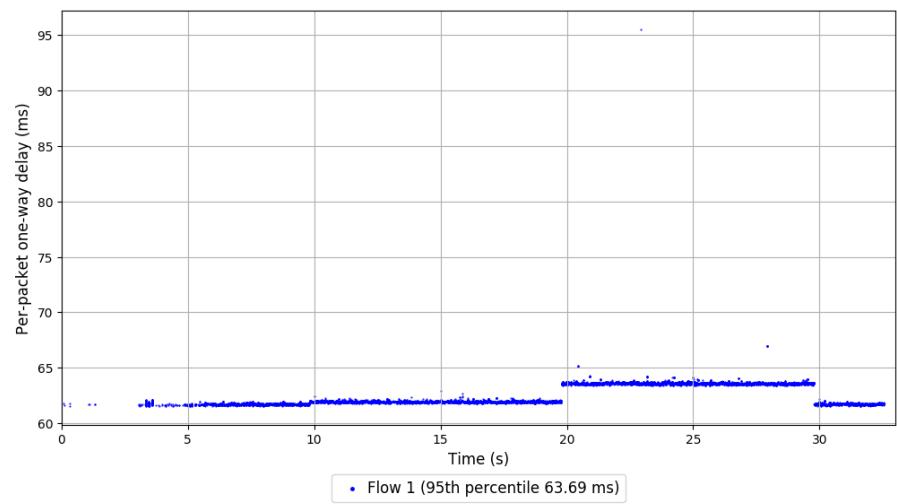
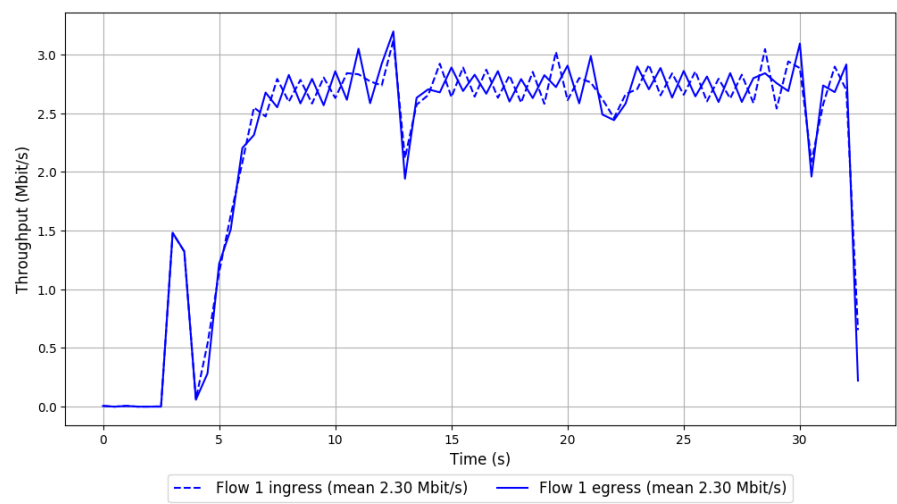
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 63.694 ms

Loss rate: 0.44%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-16 15:57:23

End at: 2018-02-16 15:57:53

Below is generated by plot.py at 2018-02-16 20:11:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 63.817 ms

Loss rate: 0.43%

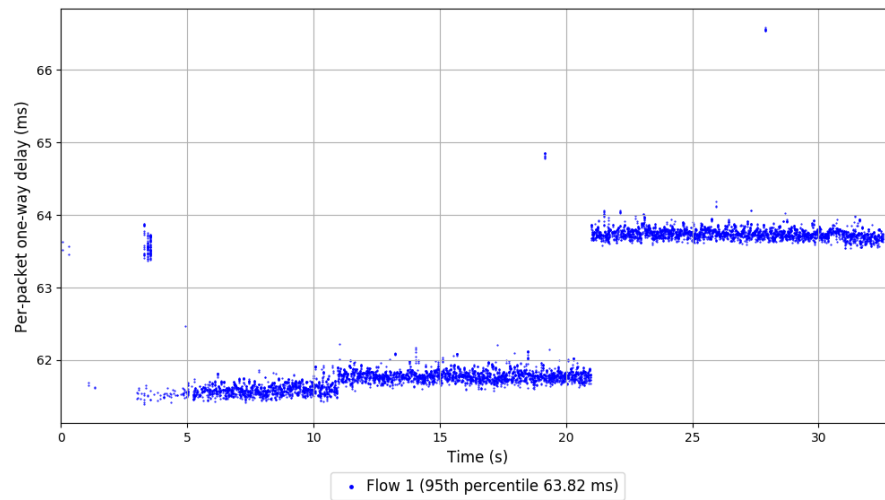
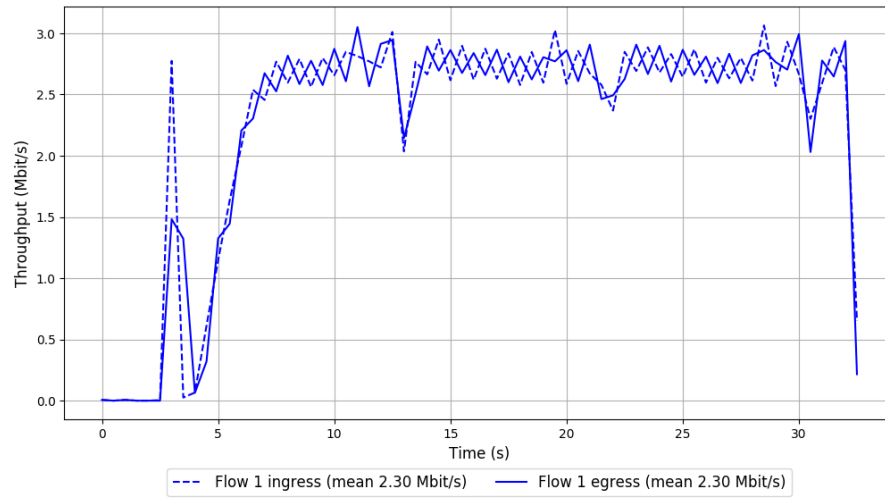
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 63.817 ms

Loss rate: 0.43%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-16 16:12:22

End at: 2018-02-16 16:12:52

Below is generated by plot.py at 2018-02-16 20:11:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.998 ms

Loss rate: 0.44%

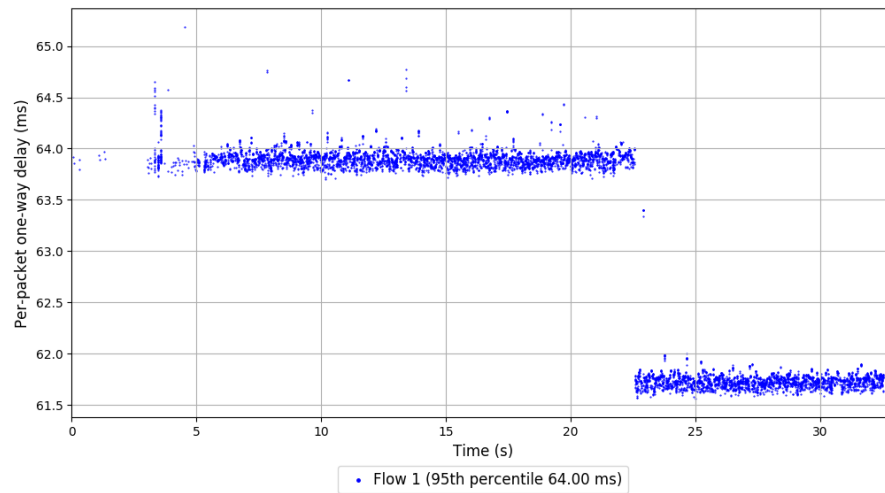
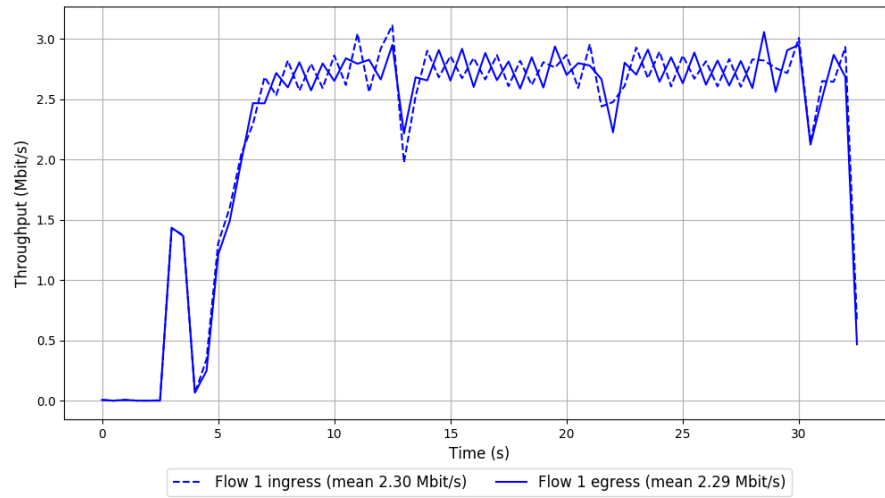
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.998 ms

Loss rate: 0.44%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

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

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

Below is generated by plot.py at 2018-02-16 20:11:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 63.918 ms

Loss rate: 0.44%

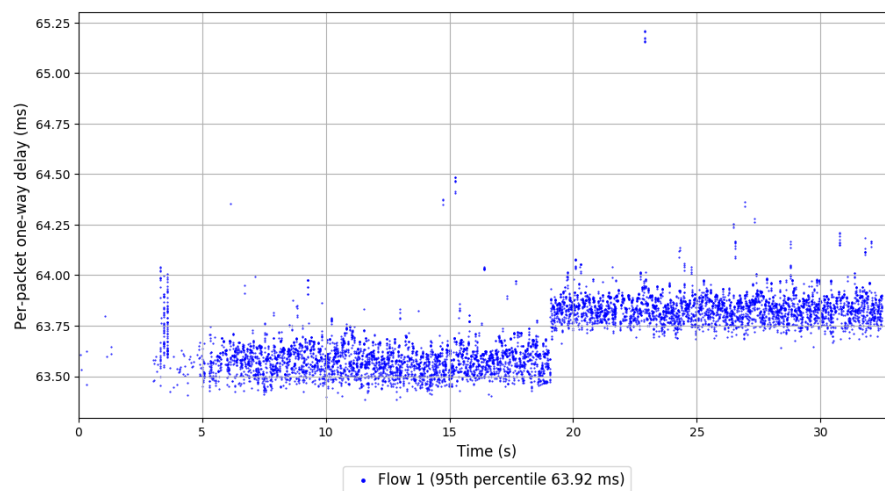
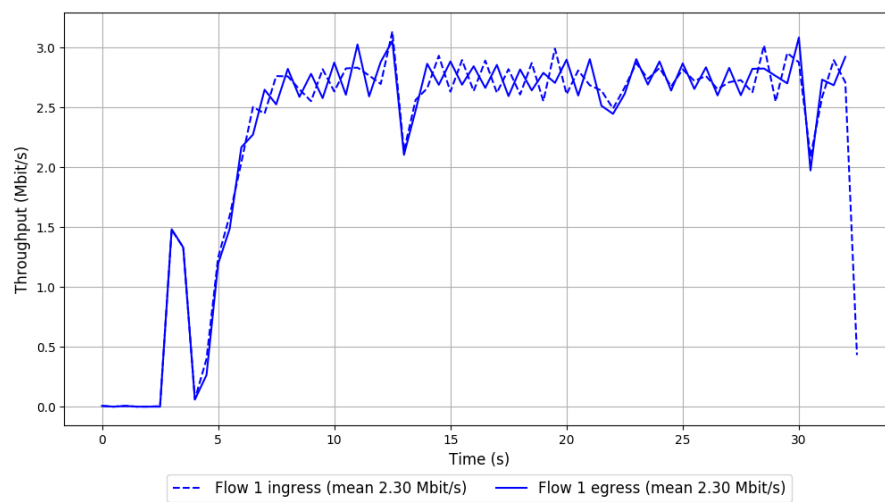
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 63.918 ms

Loss rate: 0.44%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-16 16:42:25

End at: 2018-02-16 16:42:55

Below is generated by plot.py at 2018-02-16 20:11:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 63.954 ms

Loss rate: 0.44%

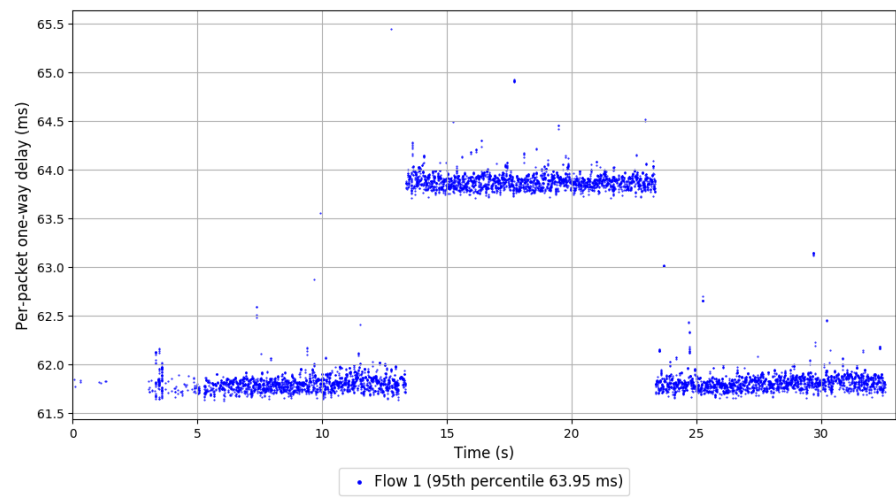
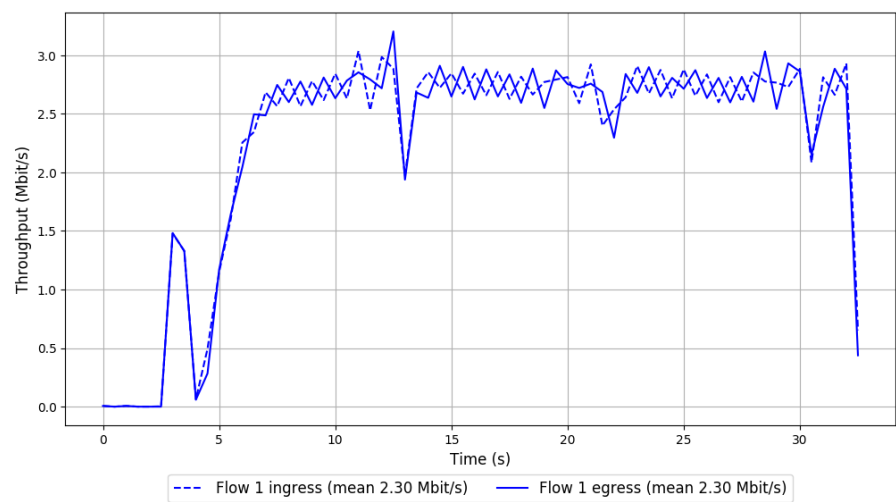
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 63.954 ms

Loss rate: 0.44%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-16 16:57:25

End at: 2018-02-16 16:57:55

Below is generated by plot.py at 2018-02-16 20:11:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 63.764 ms

Loss rate: 0.47%

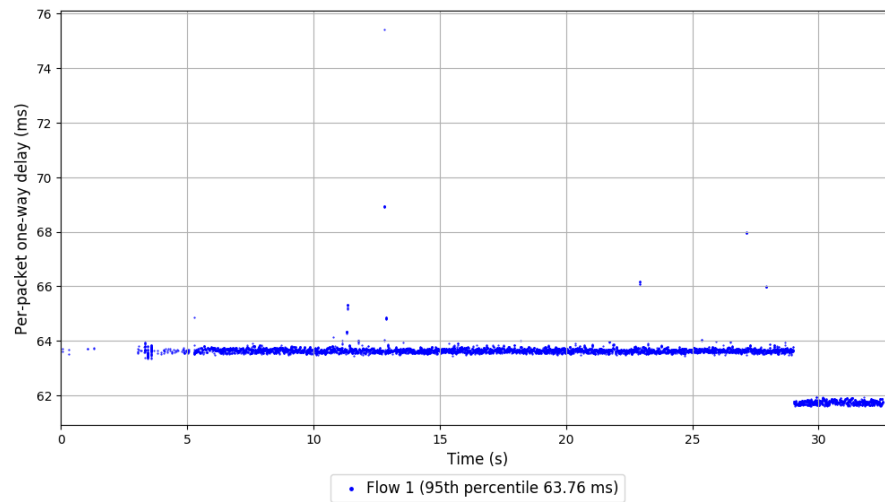
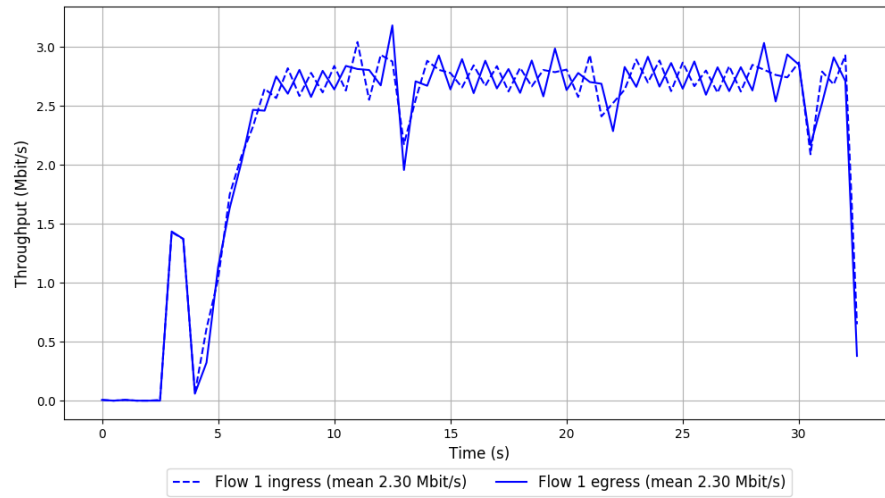
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 63.764 ms

Loss rate: 0.47%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-16 14:49:48

End at: 2018-02-16 14:50:18

Below is generated by plot.py at 2018-02-16 20:11:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.51 Mbit/s

95th percentile per-packet one-way delay: 64.701 ms

Loss rate: 0.56%

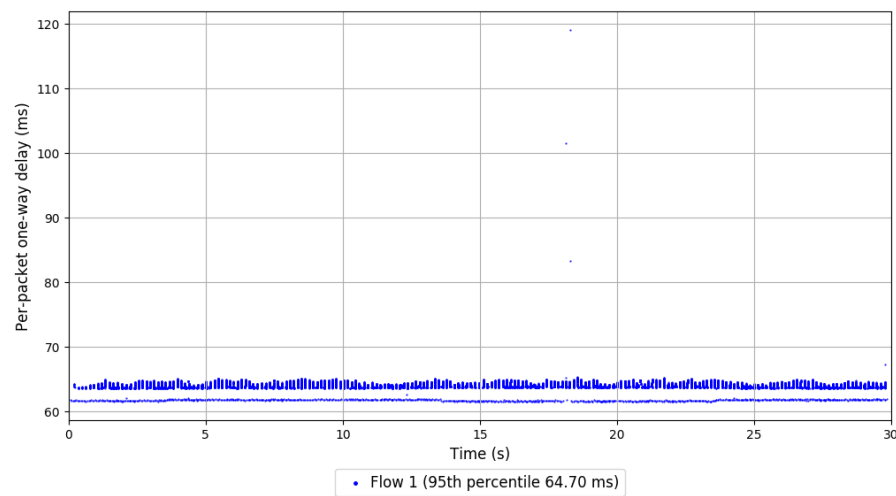
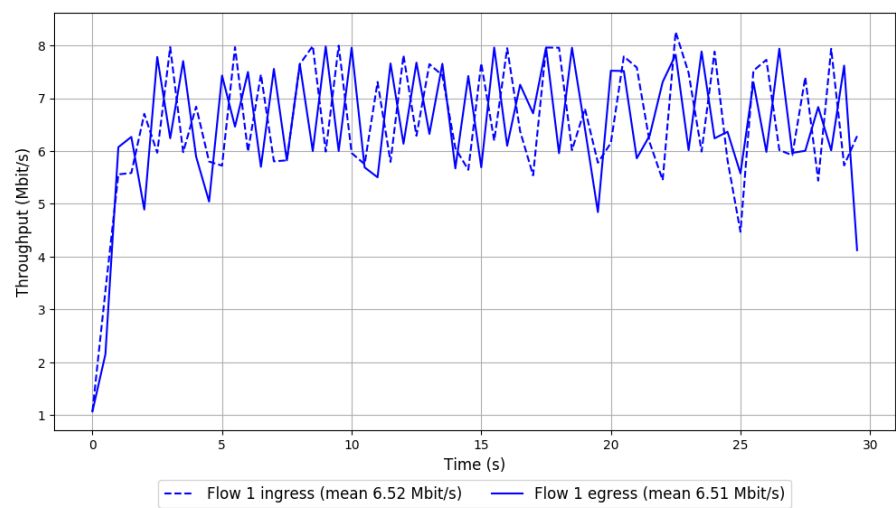
-- Flow 1:

Average throughput: 6.51 Mbit/s

95th percentile per-packet one-way delay: 64.701 ms

Loss rate: 0.56%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-16 15:04:53

End at: 2018-02-16 15:05:23

Below is generated by plot.py at 2018-02-16 20:11:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.58 Mbit/s

95th percentile per-packet one-way delay: 64.551 ms

Loss rate: 0.50%

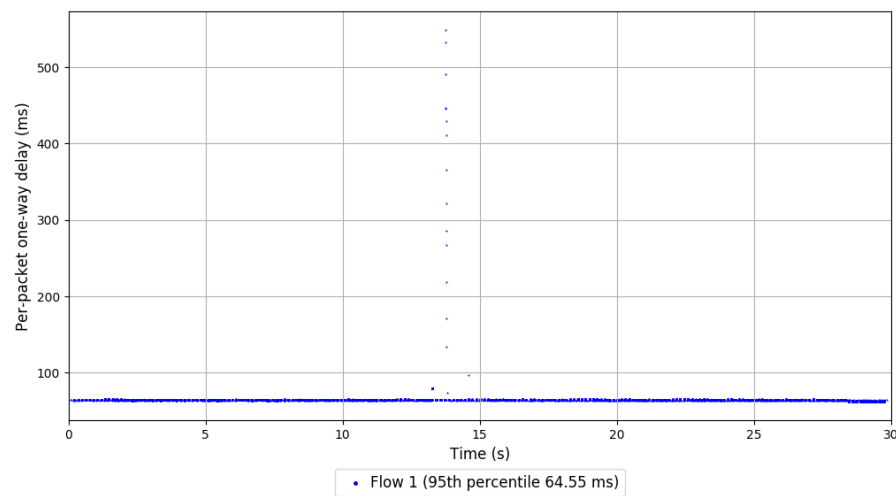
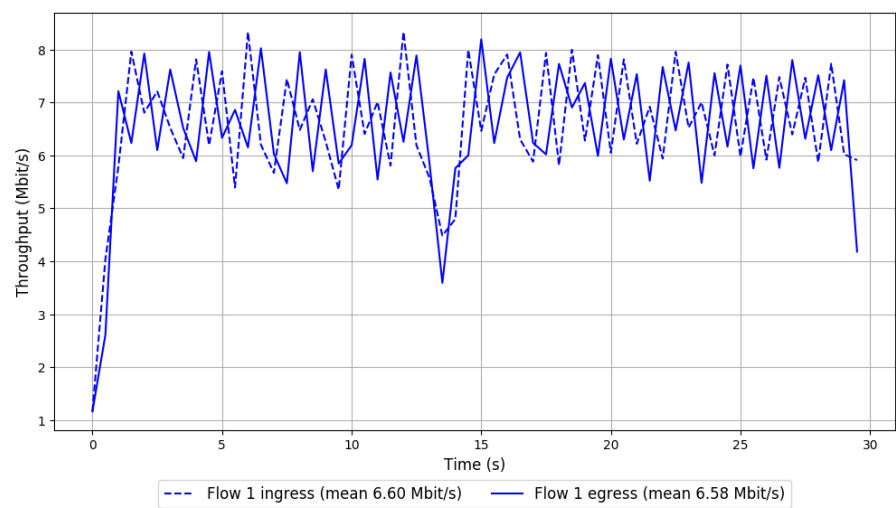
-- Flow 1:

Average throughput: 6.58 Mbit/s

95th percentile per-packet one-way delay: 64.551 ms

Loss rate: 0.50%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-16 15:20:03

End at: 2018-02-16 15:20:33

Below is generated by plot.py at 2018-02-16 20:11:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.47 Mbit/s

95th percentile per-packet one-way delay: 64.769 ms

Loss rate: 0.38%

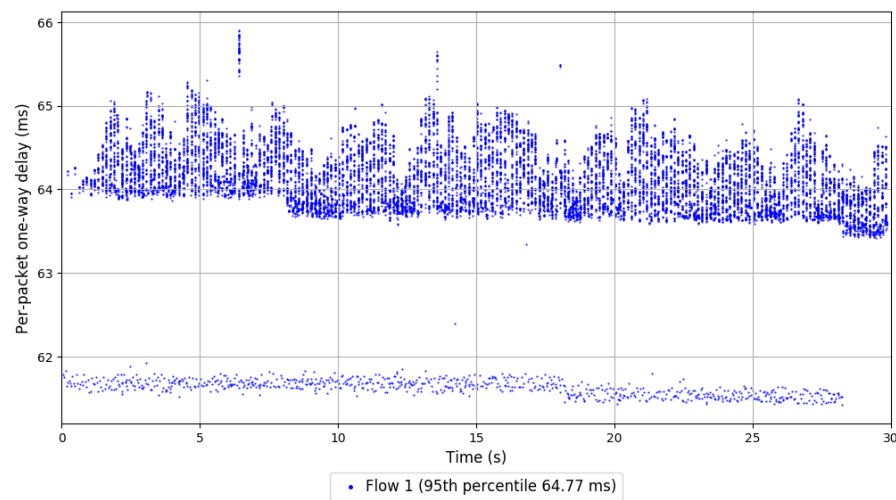
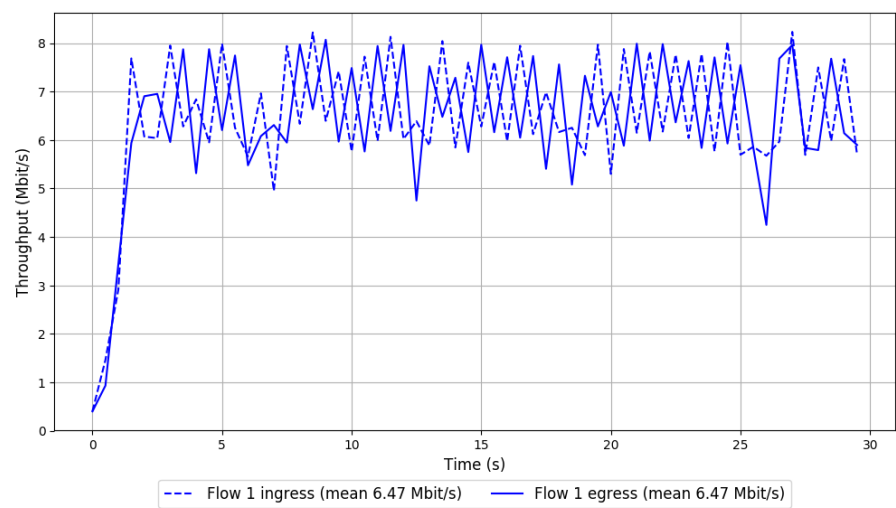
-- Flow 1:

Average throughput: 6.47 Mbit/s

95th percentile per-packet one-way delay: 64.769 ms

Loss rate: 0.38%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-16 15:34:42

End at: 2018-02-16 15:35:12

Below is generated by plot.py at 2018-02-16 20:11:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.56 Mbit/s

95th percentile per-packet one-way delay: 64.435 ms

Loss rate: 0.51%

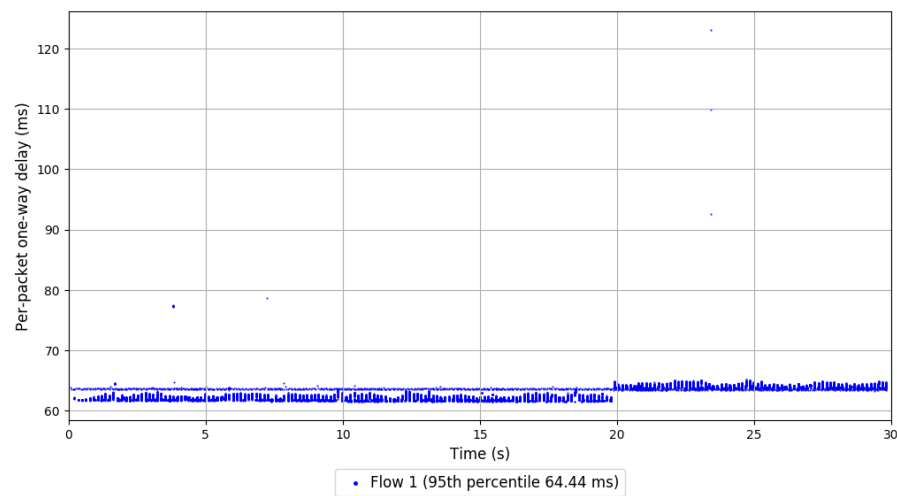
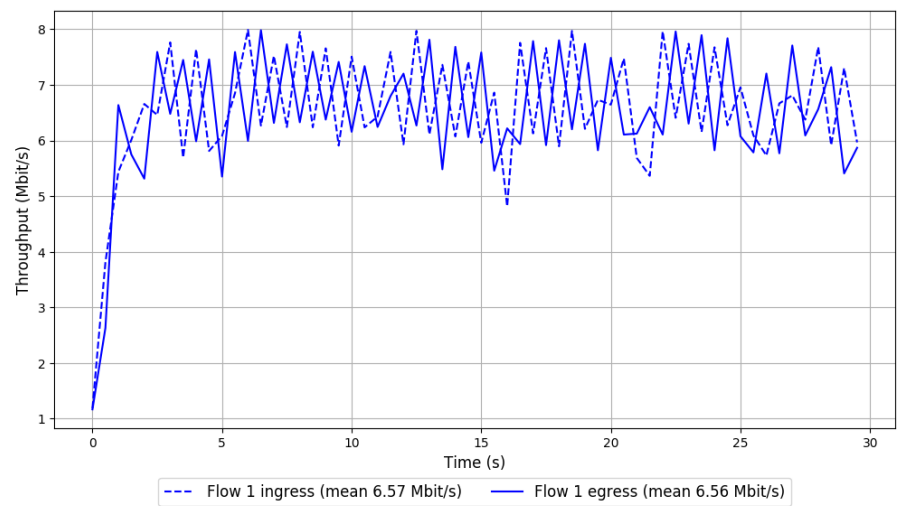
-- Flow 1:

Average throughput: 6.56 Mbit/s

95th percentile per-packet one-way delay: 64.435 ms

Loss rate: 0.51%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-16 15:49:24

End at: 2018-02-16 15:49:54

Below is generated by plot.py at 2018-02-16 20:11:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.59 Mbit/s

95th percentile per-packet one-way delay: 64.704 ms

Loss rate: 0.58%

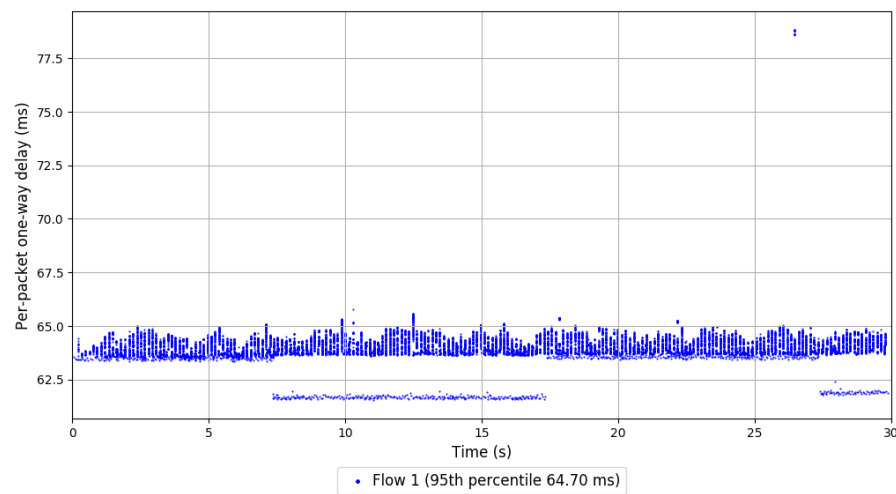
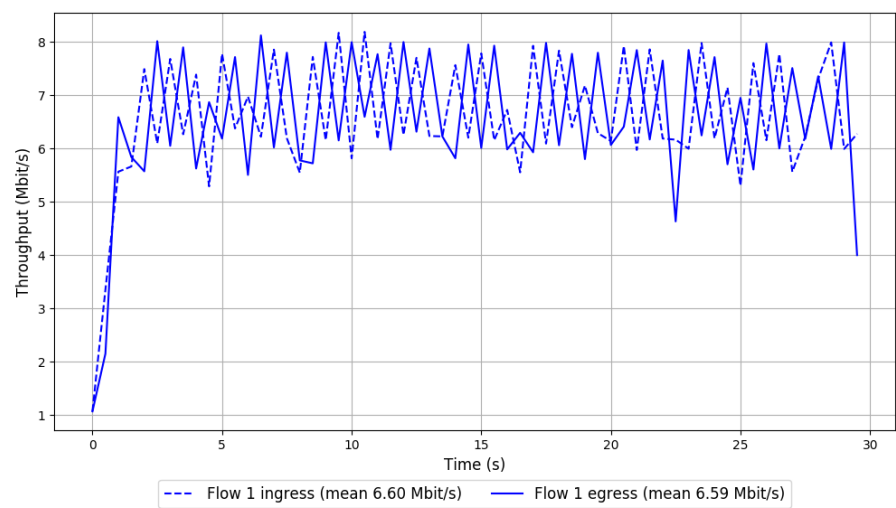
-- Flow 1:

Average throughput: 6.59 Mbit/s

95th percentile per-packet one-way delay: 64.704 ms

Loss rate: 0.58%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-16 16:04:12

End at: 2018-02-16 16:04:42

Below is generated by plot.py at 2018-02-16 20:11:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.52 Mbit/s

95th percentile per-packet one-way delay: 64.627 ms

Loss rate: 0.42%

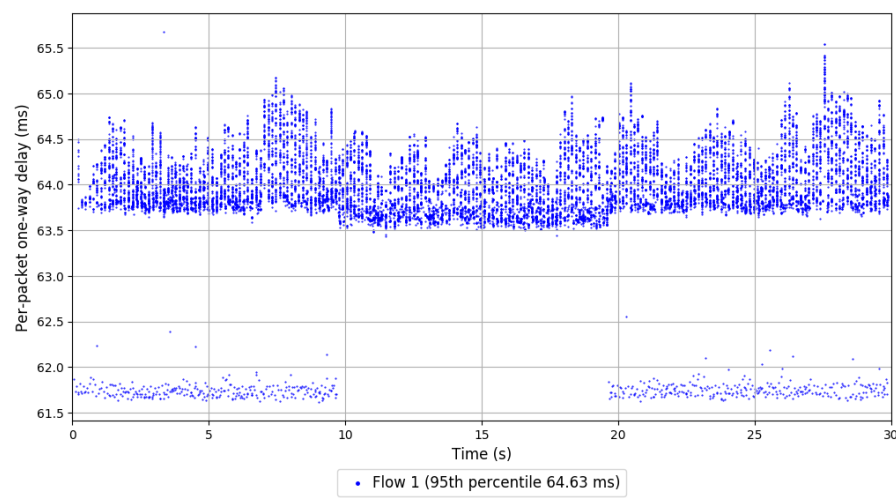
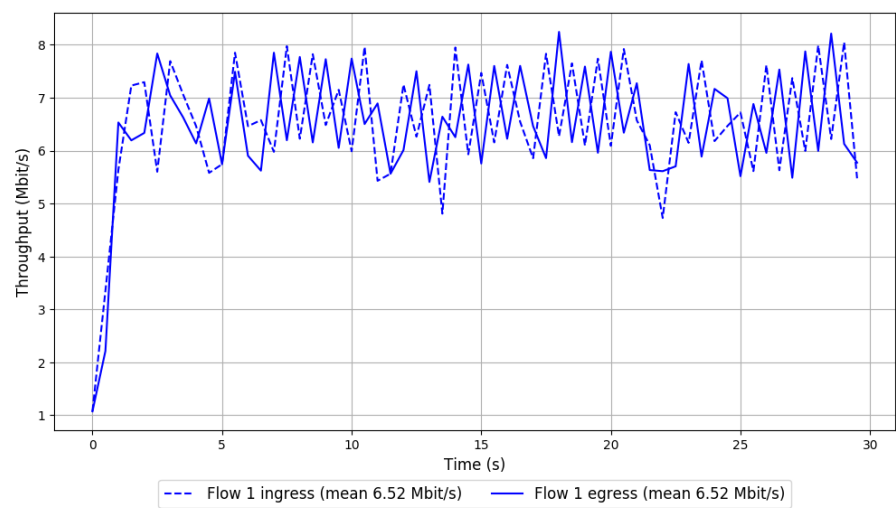
-- Flow 1:

Average throughput: 6.52 Mbit/s

95th percentile per-packet one-way delay: 64.627 ms

Loss rate: 0.42%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

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

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

Below is generated by plot.py at 2018-02-16 20:11:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.49 Mbit/s

95th percentile per-packet one-way delay: 64.646 ms

Loss rate: 0.50%

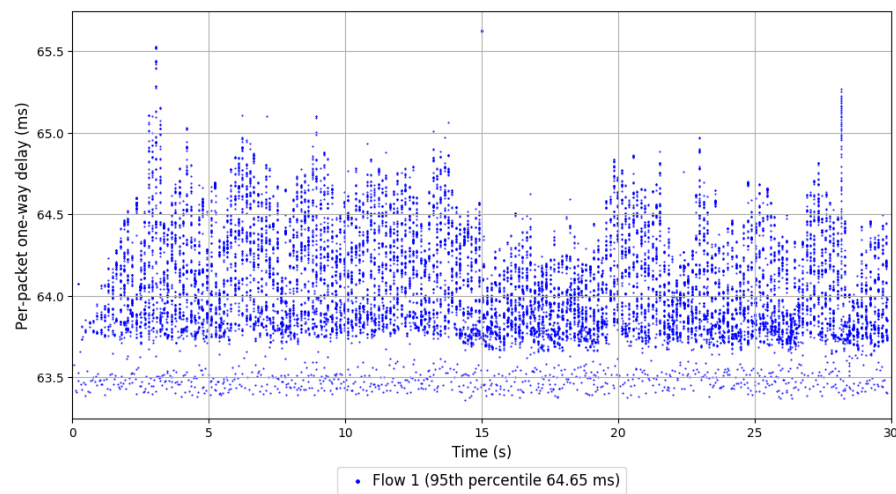
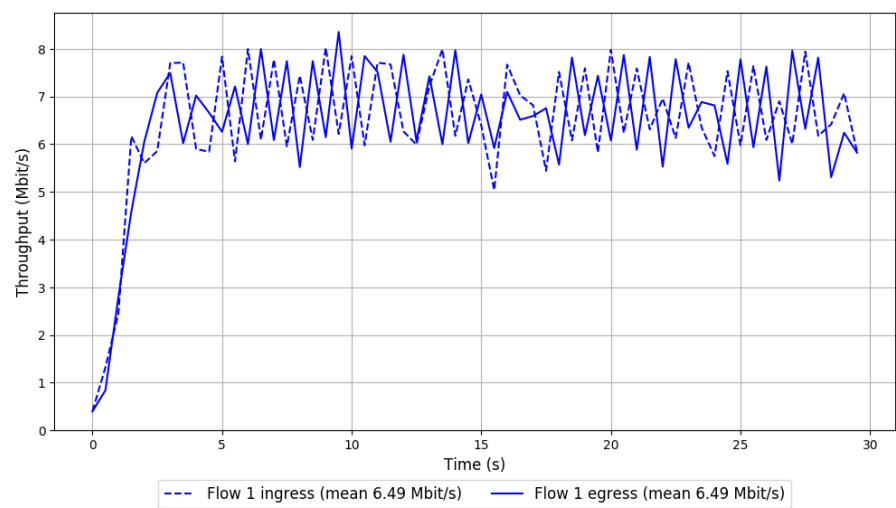
-- Flow 1:

Average throughput: 6.49 Mbit/s

95th percentile per-packet one-way delay: 64.646 ms

Loss rate: 0.50%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-16 16:34:24

End at: 2018-02-16 16:34:54

Below is generated by plot.py at 2018-02-16 20:11:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.56 Mbit/s

95th percentile per-packet one-way delay: 64.755 ms

Loss rate: 0.41%

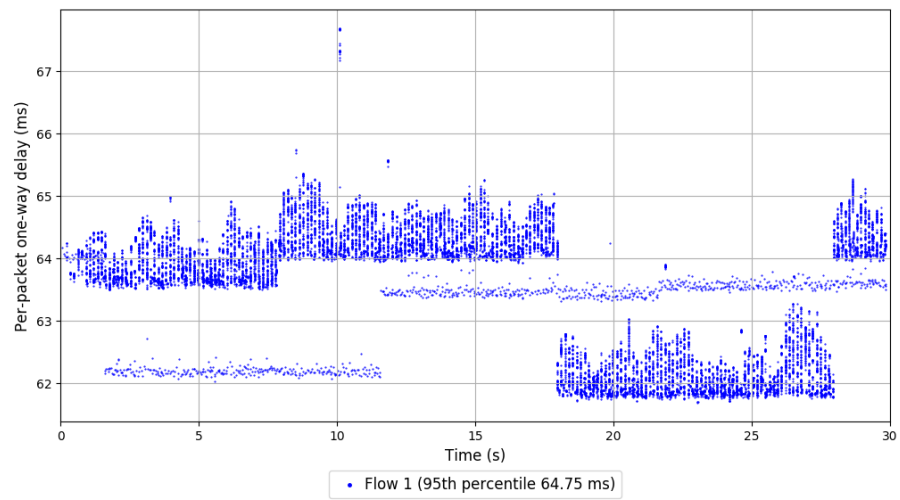
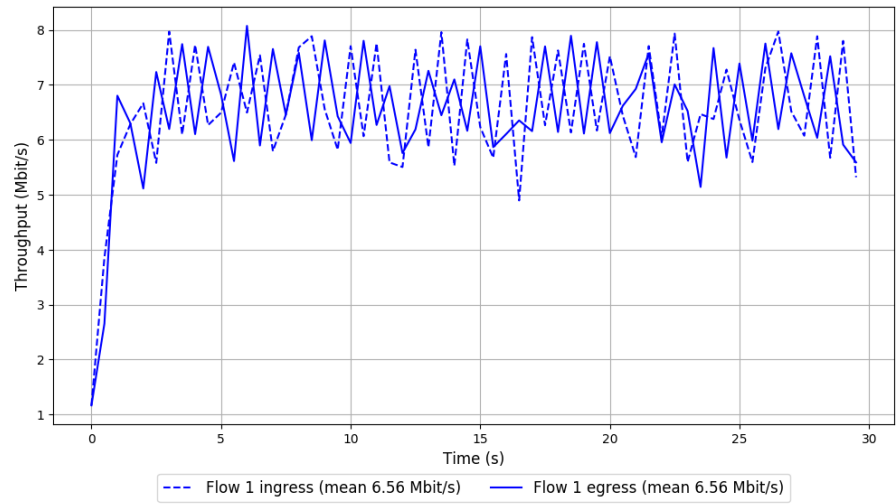
-- Flow 1:

Average throughput: 6.56 Mbit/s

95th percentile per-packet one-way delay: 64.755 ms

Loss rate: 0.41%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-16 16:49:20

End at: 2018-02-16 16:49:50

Below is generated by plot.py at 2018-02-16 20:11:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.62 Mbit/s

95th percentile per-packet one-way delay: 64.420 ms

Loss rate: 0.48%

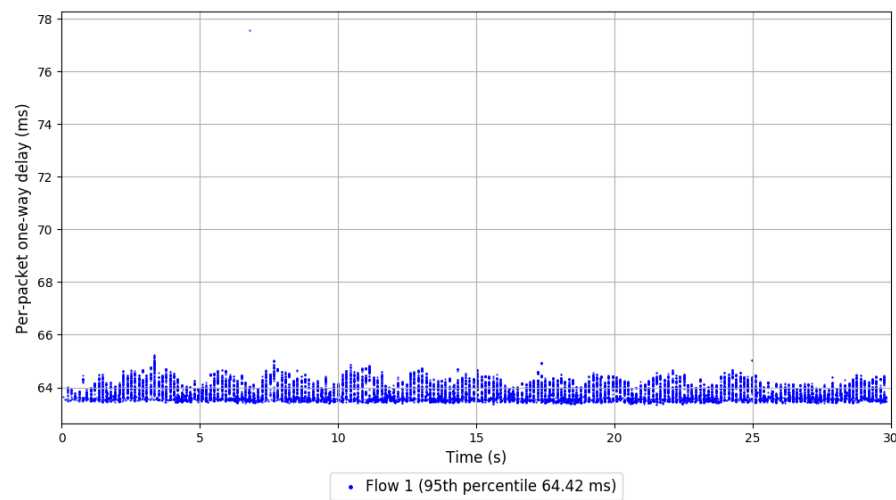
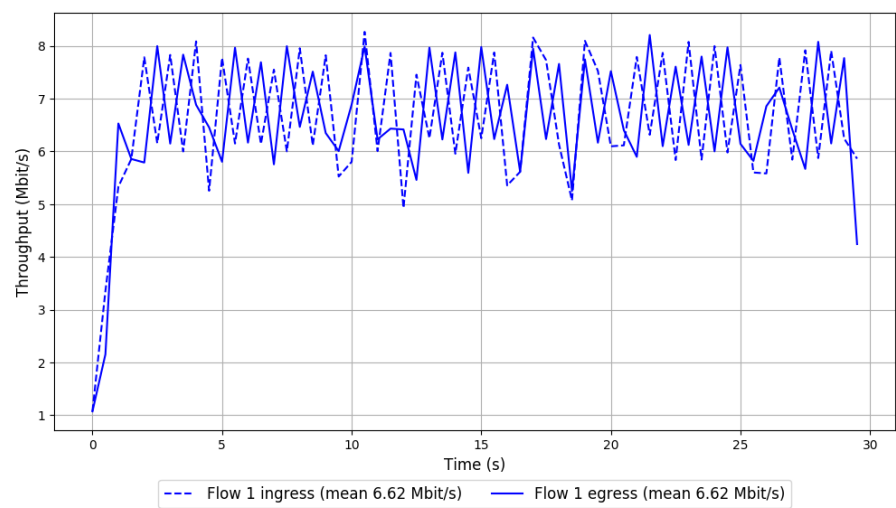
-- Flow 1:

Average throughput: 6.62 Mbit/s

95th percentile per-packet one-way delay: 64.420 ms

Loss rate: 0.48%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-16 17:04:13

End at: 2018-02-16 17:04:43

Below is generated by plot.py at 2018-02-16 20:11:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.59 Mbit/s

95th percentile per-packet one-way delay: 64.429 ms

Loss rate: 0.47%

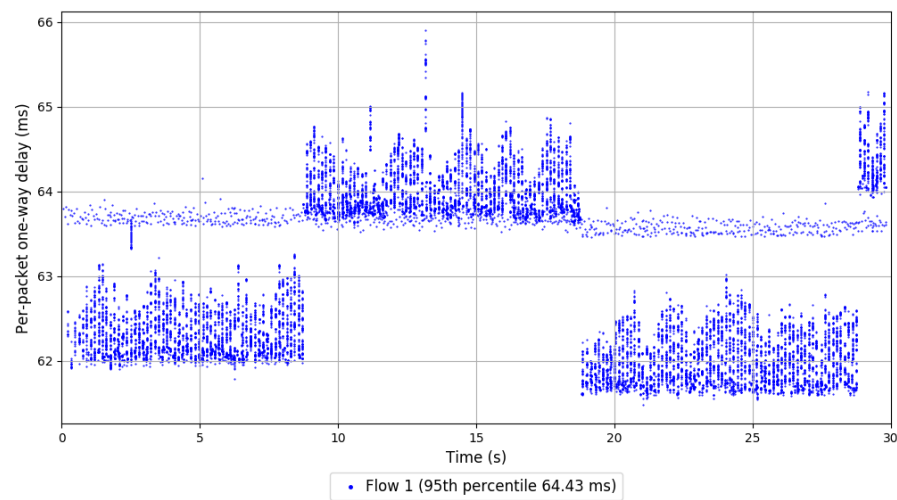
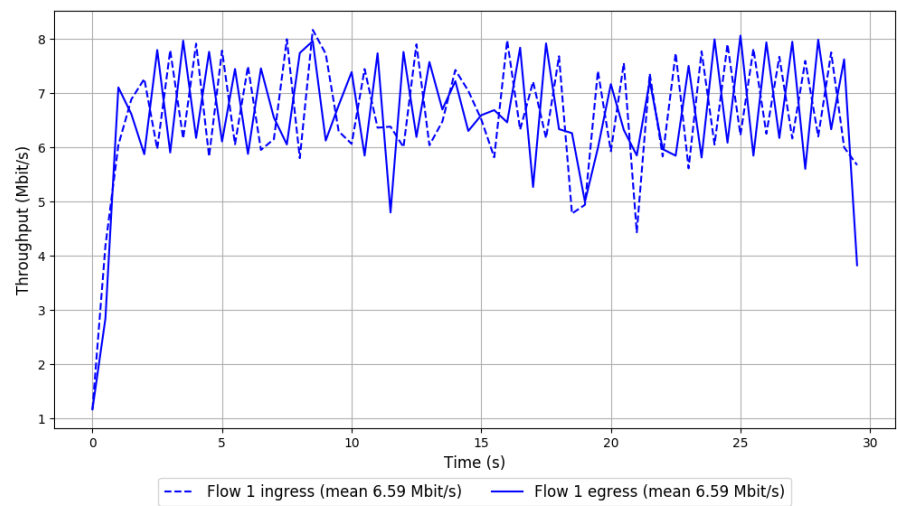
-- Flow 1:

Average throughput: 6.59 Mbit/s

95th percentile per-packet one-way delay: 64.429 ms

Loss rate: 0.47%

Run 10: Report of Sprout — Data Link

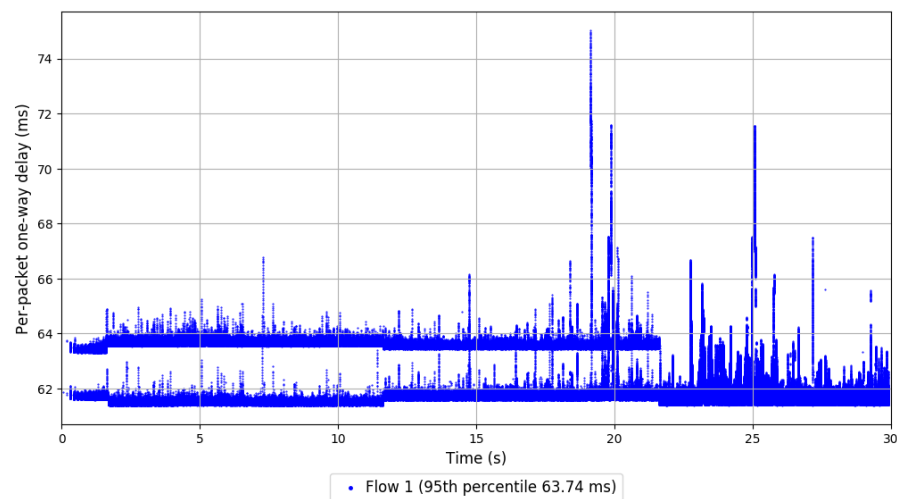
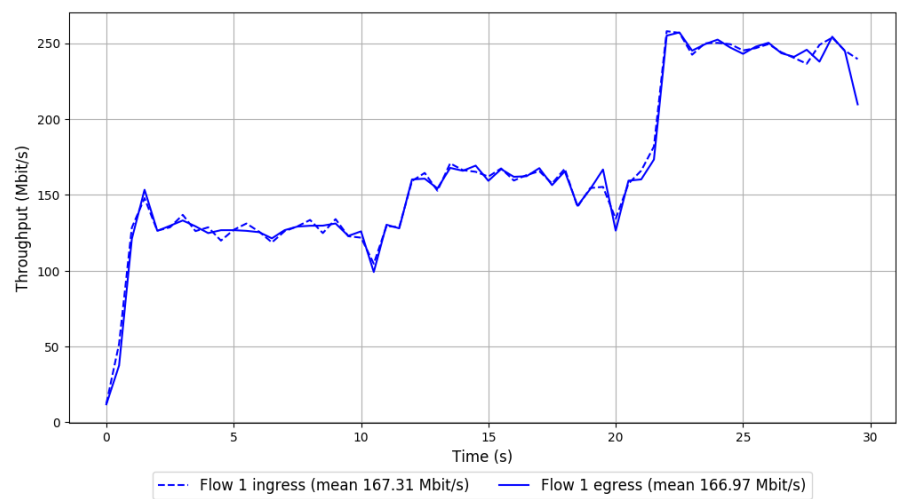


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-16 14:39:40
End at: 2018-02-16 14:40:10

# Below is generated by plot.py at 2018-02-16 20:11:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 166.97 Mbit/s
95th percentile per-packet one-way delay: 63.736 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 166.97 Mbit/s
95th percentile per-packet one-way delay: 63.736 ms
Loss rate: 0.62%
```

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

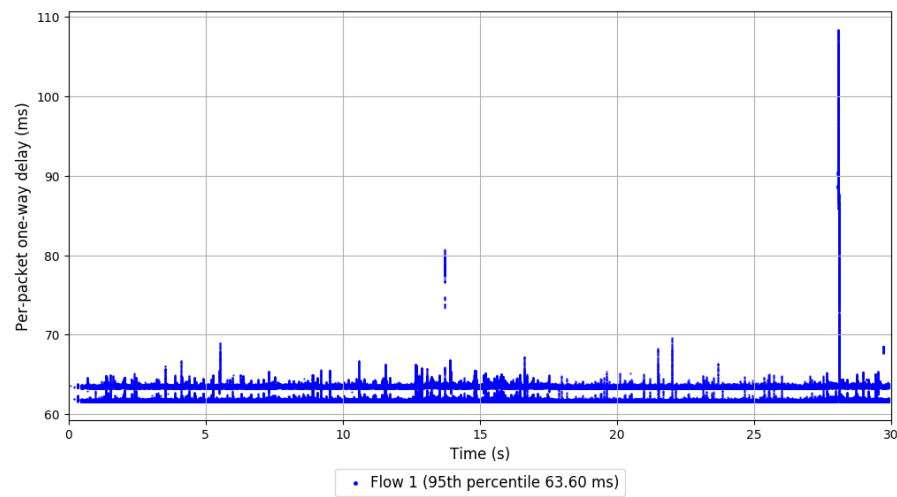
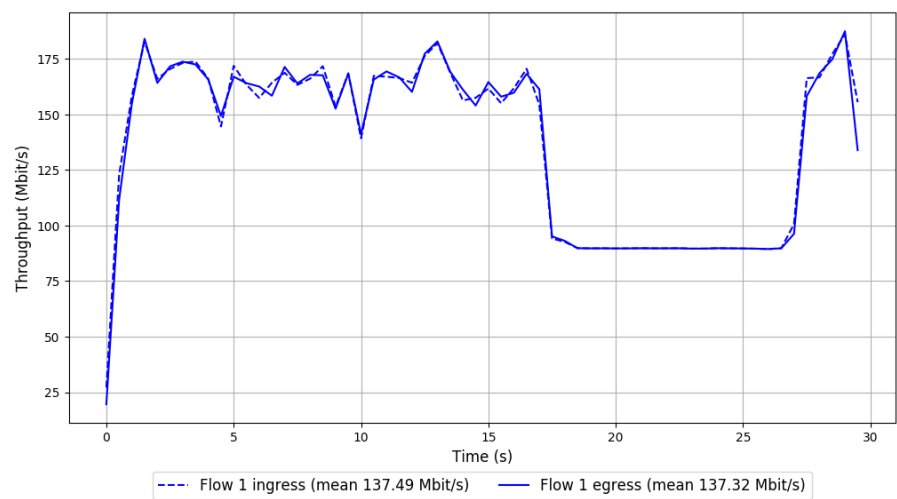


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-16 14:54:48
End at: 2018-02-16 14:55:18

# Below is generated by plot.py at 2018-02-16 20:11:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 137.32 Mbit/s
95th percentile per-packet one-way delay: 63.601 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 137.32 Mbit/s
95th percentile per-packet one-way delay: 63.601 ms
Loss rate: 0.54%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-02-16 15:09:50

End at: 2018-02-16 15:10:20

Below is generated by plot.py at 2018-02-16 20:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 235.10 Mbit/s

95th percentile per-packet one-way delay: 63.907 ms

Loss rate: 0.46%

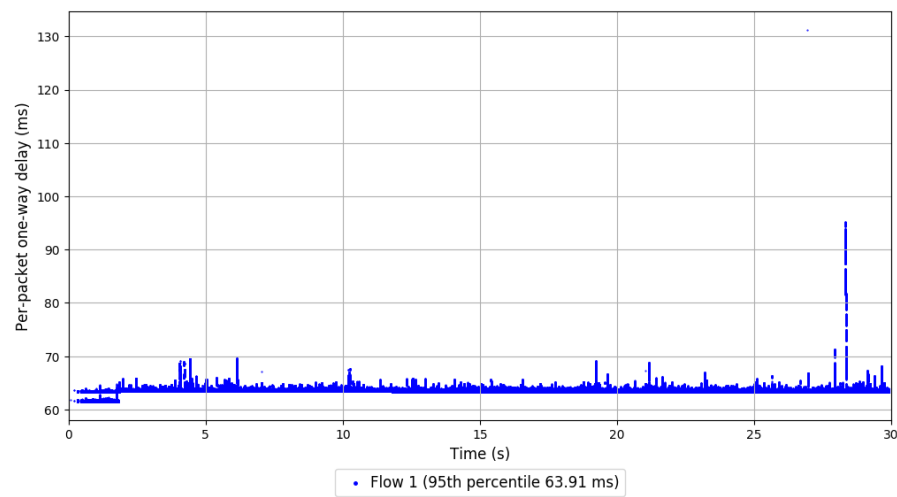
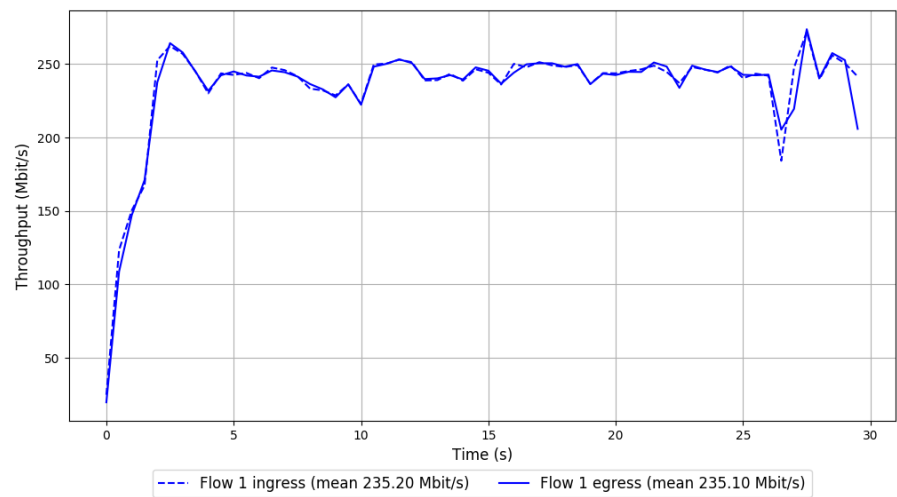
-- Flow 1:

Average throughput: 235.10 Mbit/s

95th percentile per-packet one-way delay: 63.907 ms

Loss rate: 0.46%

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

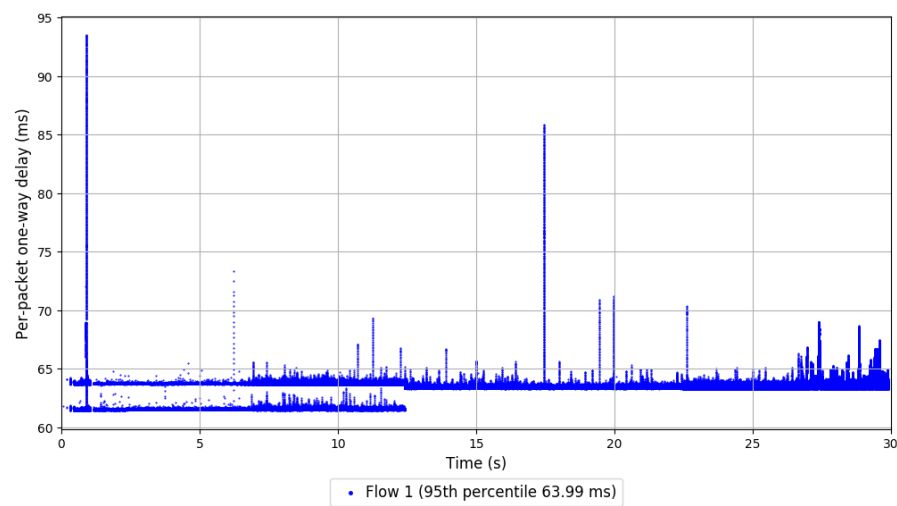
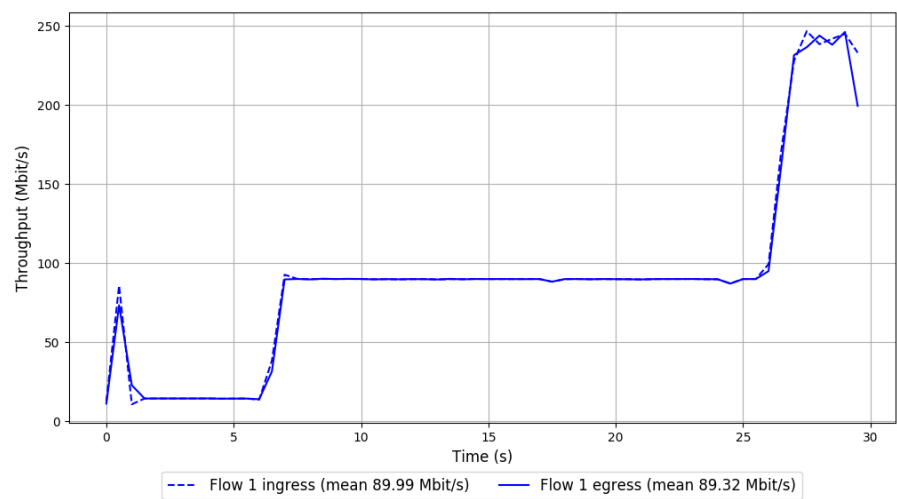


```
Run 4: Statistics of TaoVA-100x

Start at: 2018-02-16 15:24:59
End at: 2018-02-16 15:25:29

# Below is generated by plot.py at 2018-02-16 20:13:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.32 Mbit/s
95th percentile per-packet one-way delay: 63.992 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 89.32 Mbit/s
95th percentile per-packet one-way delay: 63.992 ms
Loss rate: 1.16%
```

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-16 15:39:22

End at: 2018-02-16 15:39:52

Below is generated by plot.py at 2018-02-16 20:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.80 Mbit/s

95th percentile per-packet one-way delay: 64.024 ms

Loss rate: 0.64%

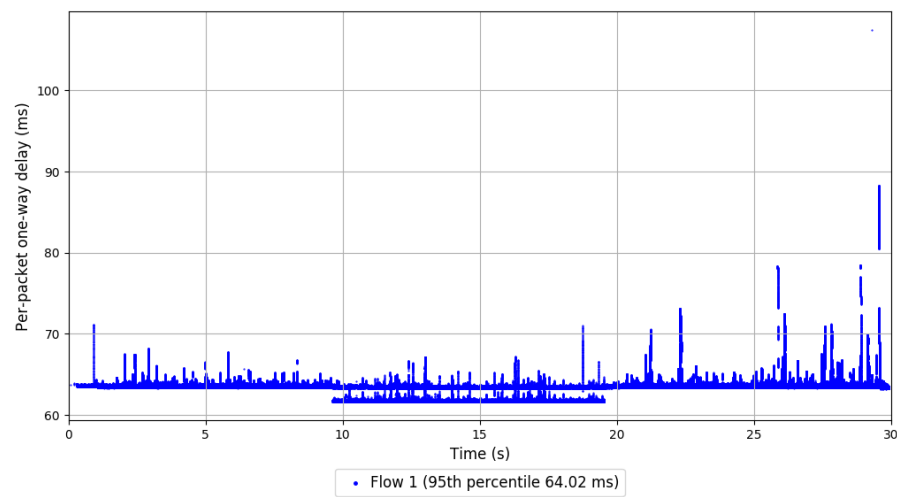
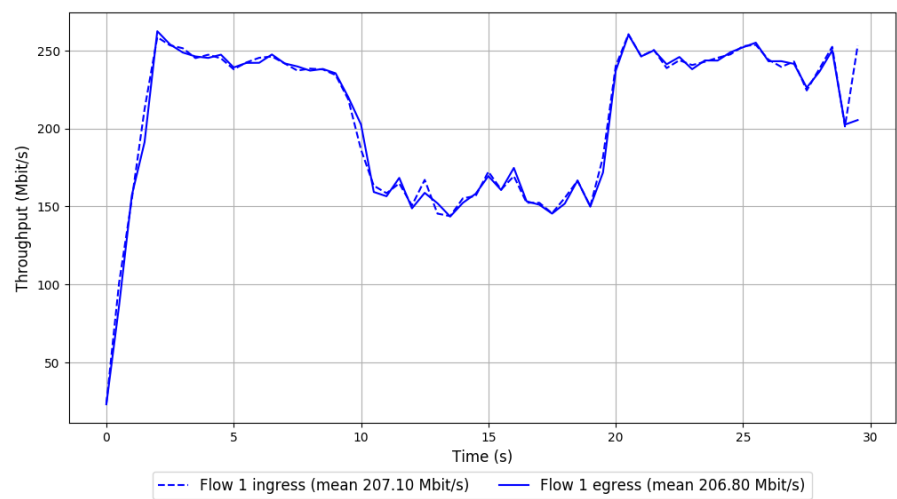
-- Flow 1:

Average throughput: 206.80 Mbit/s

95th percentile per-packet one-way delay: 64.024 ms

Loss rate: 0.64%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-16 15:54:17

End at: 2018-02-16 15:54:47

Below is generated by plot.py at 2018-02-16 20:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 156.15 Mbit/s

95th percentile per-packet one-way delay: 63.777 ms

Loss rate: 0.64%

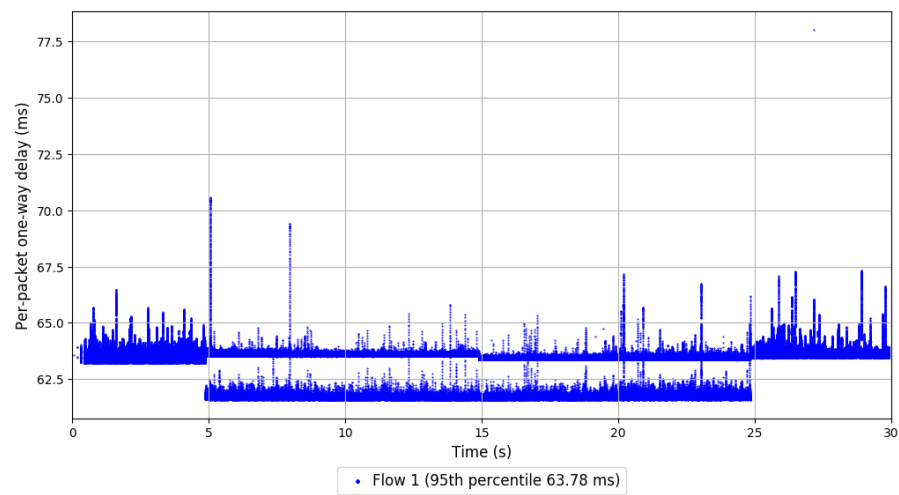
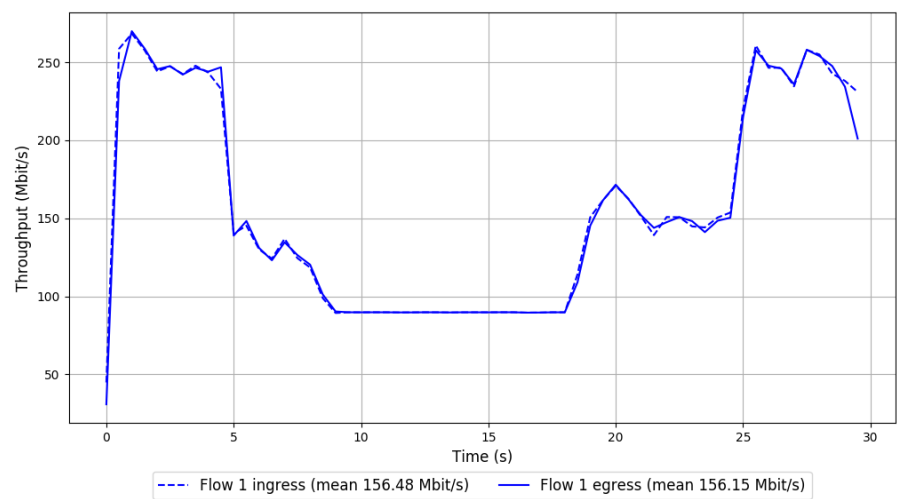
-- Flow 1:

Average throughput: 156.15 Mbit/s

95th percentile per-packet one-way delay: 63.777 ms

Loss rate: 0.64%

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

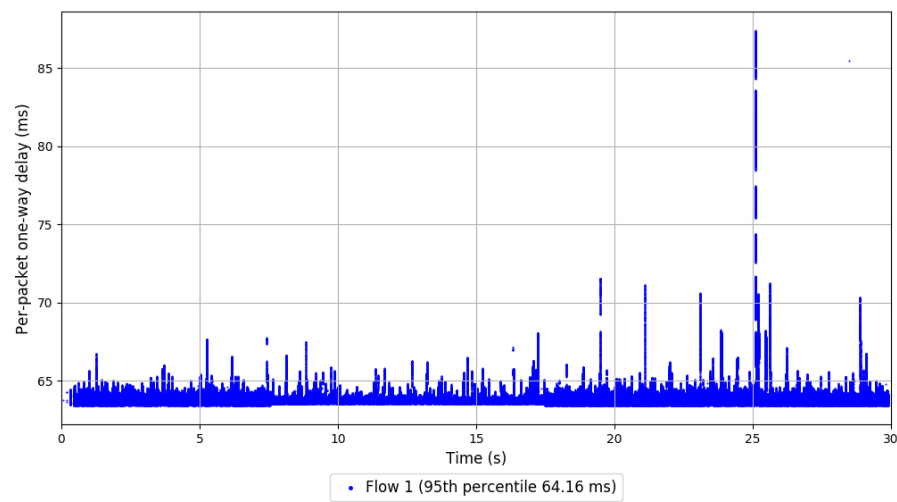
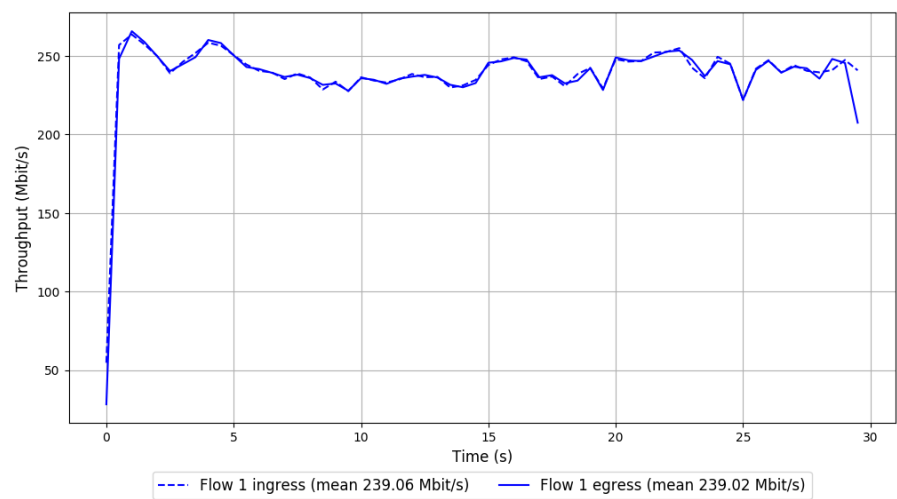


```
Run 7: Statistics of TaoVA-100x

Start at: 2018-02-16 16:09:04
End at: 2018-02-16 16:09:34

# Below is generated by plot.py at 2018-02-16 20:16:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 239.02 Mbit/s
95th percentile per-packet one-way delay: 64.162 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 239.02 Mbit/s
95th percentile per-packet one-way delay: 64.162 ms
Loss rate: 0.45%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-16 16:24:19

End at: 2018-02-16 16:24:49

Below is generated by plot.py at 2018-02-16 20:17:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.58 Mbit/s

95th percentile per-packet one-way delay: 63.774 ms

Loss rate: 0.33%

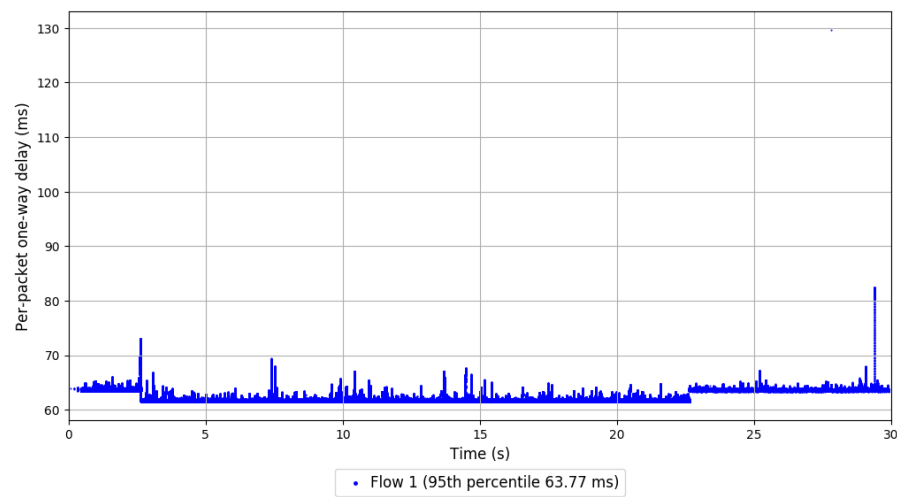
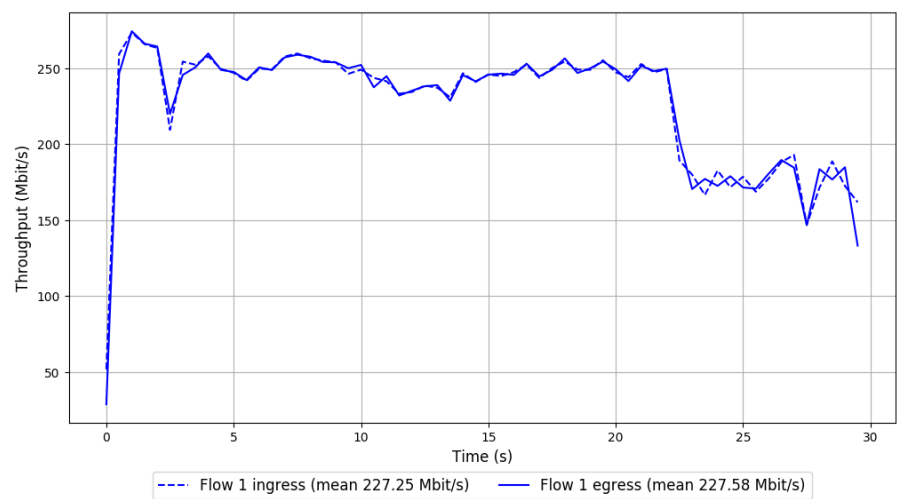
-- Flow 1:

Average throughput: 227.58 Mbit/s

95th percentile per-packet one-way delay: 63.774 ms

Loss rate: 0.33%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-16 16:39:17

End at: 2018-02-16 16:39:47

Below is generated by plot.py at 2018-02-16 20:17:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.42 Mbit/s

95th percentile per-packet one-way delay: 64.241 ms

Loss rate: 0.61%

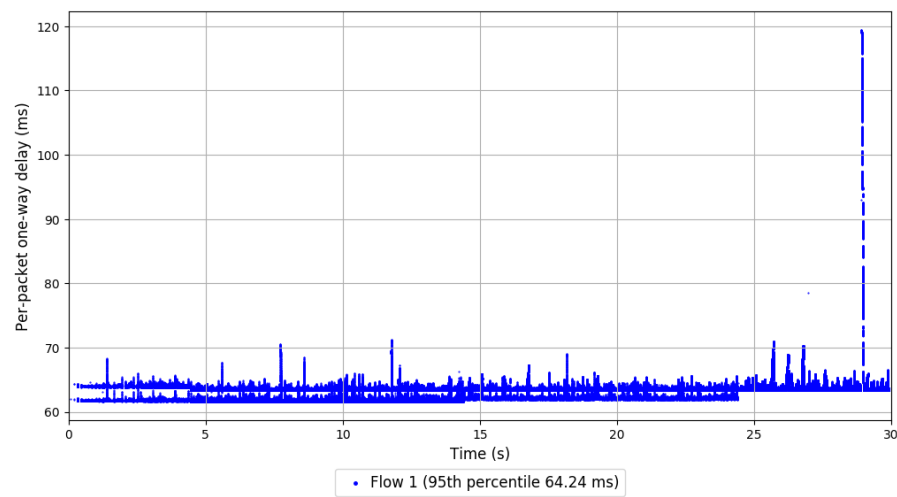
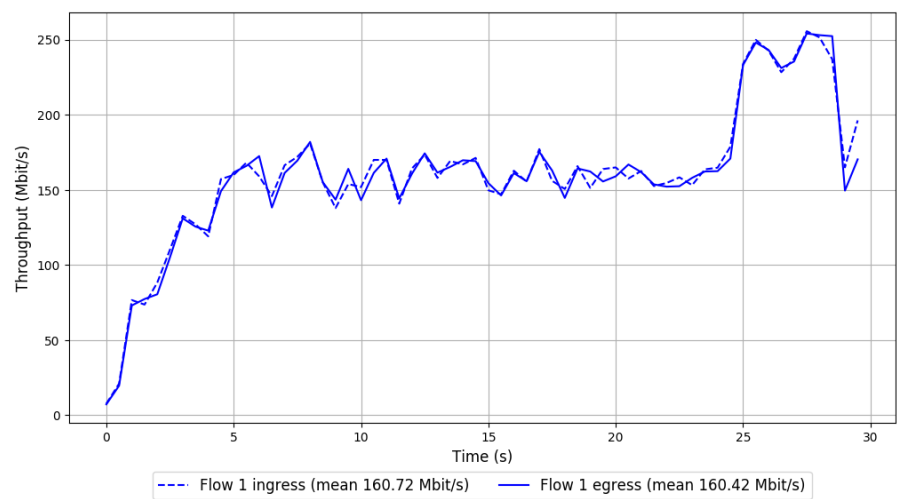
-- Flow 1:

Average throughput: 160.42 Mbit/s

95th percentile per-packet one-way delay: 64.241 ms

Loss rate: 0.61%

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

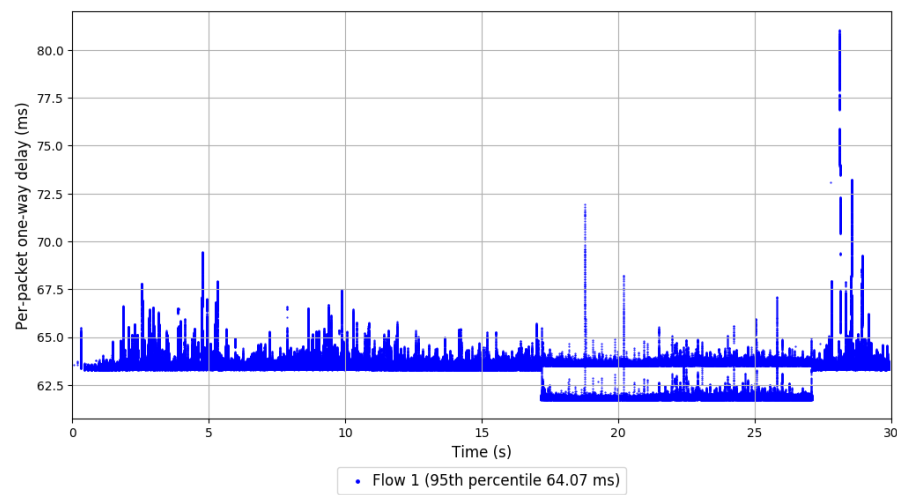
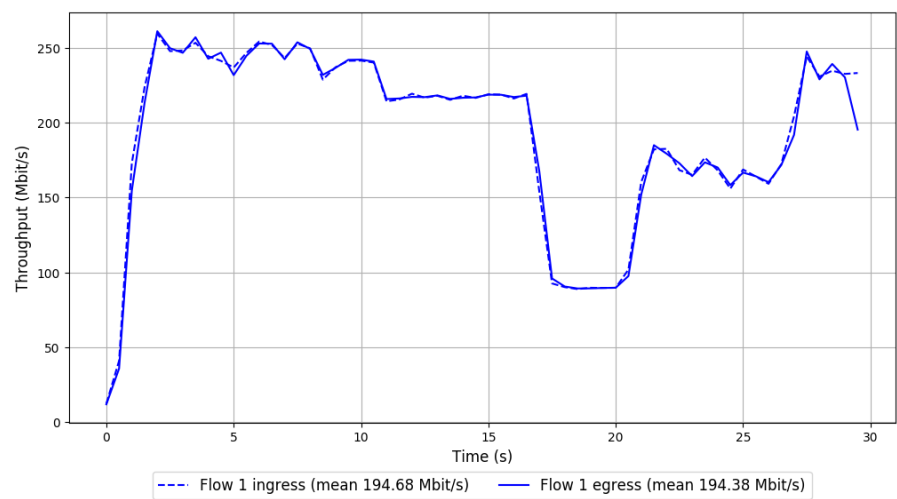


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-16 16:54:15
End at: 2018-02-16 16:54:45

# Below is generated by plot.py at 2018-02-16 20:17:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 194.38 Mbit/s
95th percentile per-packet one-way delay: 64.069 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 194.38 Mbit/s
95th percentile per-packet one-way delay: 64.069 ms
Loss rate: 0.58%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-16 14:48:25

End at: 2018-02-16 14:48:55

Below is generated by plot.py at 2018-02-16 20:17:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 126.39 Mbit/s

95th percentile per-packet one-way delay: 71.024 ms

Loss rate: 0.18%

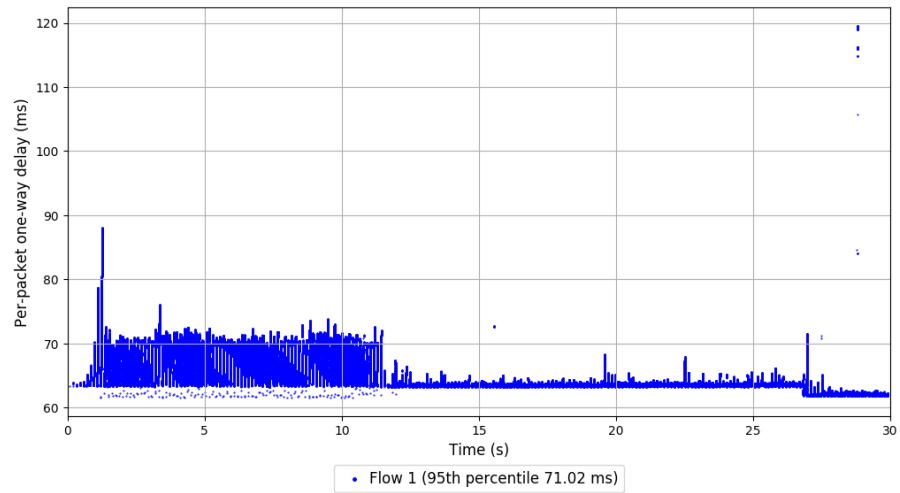
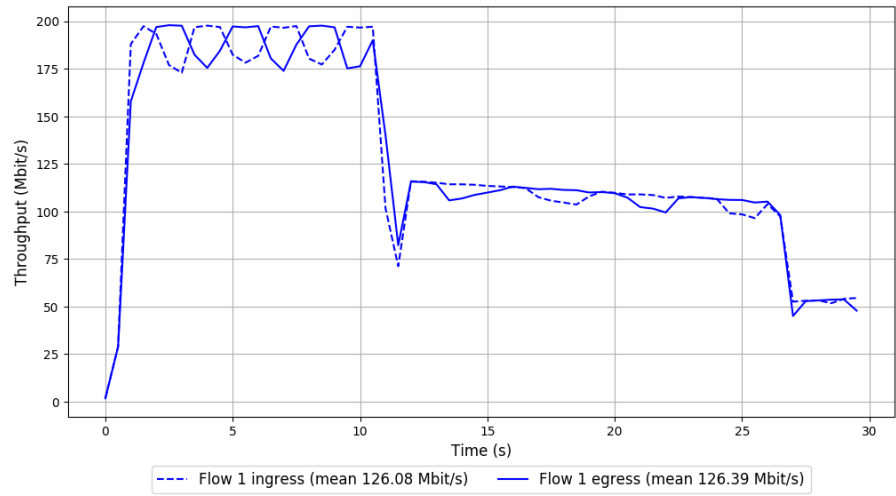
-- Flow 1:

Average throughput: 126.39 Mbit/s

95th percentile per-packet one-way delay: 71.024 ms

Loss rate: 0.18%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-16 15:03:34

End at: 2018-02-16 15:04:04

Below is generated by plot.py at 2018-02-16 20:17:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.01 Mbit/s

95th percentile per-packet one-way delay: 64.715 ms

Loss rate: 0.45%

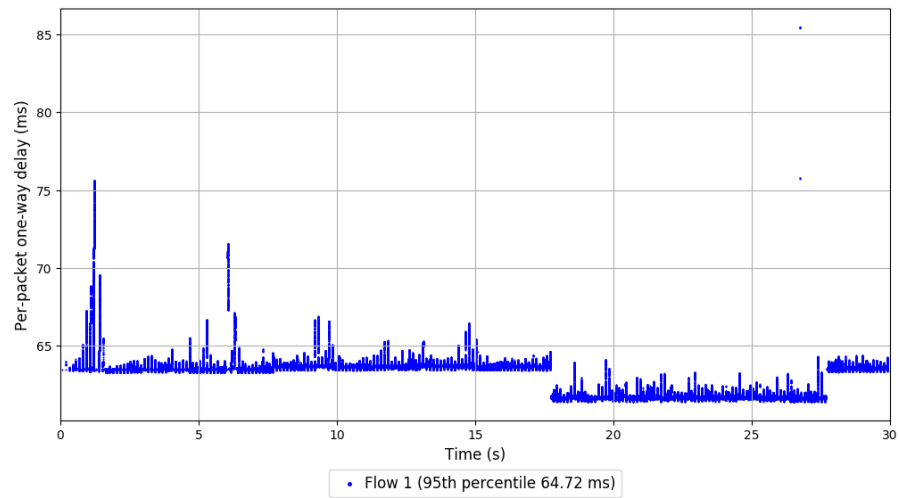
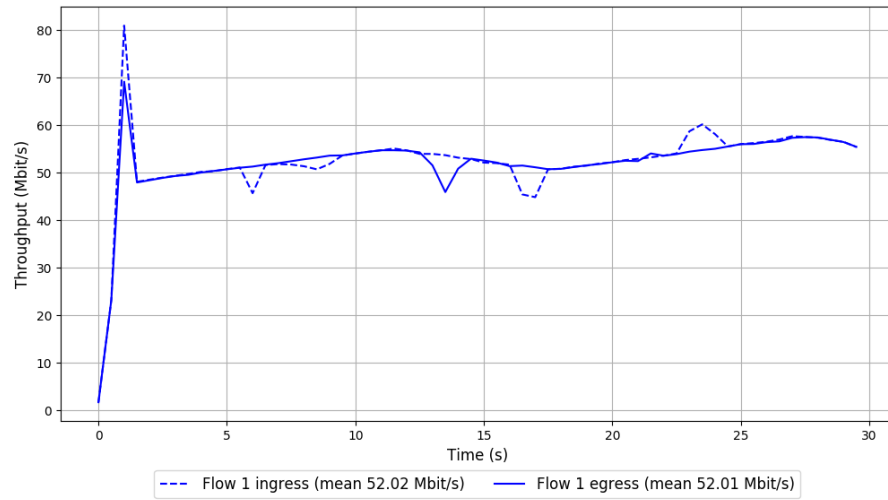
-- Flow 1:

Average throughput: 52.01 Mbit/s

95th percentile per-packet one-way delay: 64.715 ms

Loss rate: 0.45%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-16 15:18:38

End at: 2018-02-16 15:19:08

Below is generated by plot.py at 2018-02-16 20:17:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.96 Mbit/s

95th percentile per-packet one-way delay: 71.088 ms

Loss rate: 0.43%

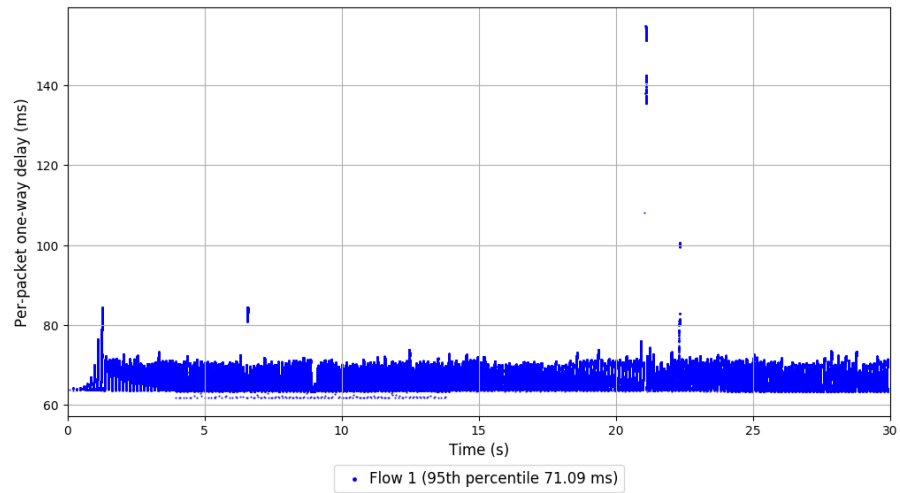
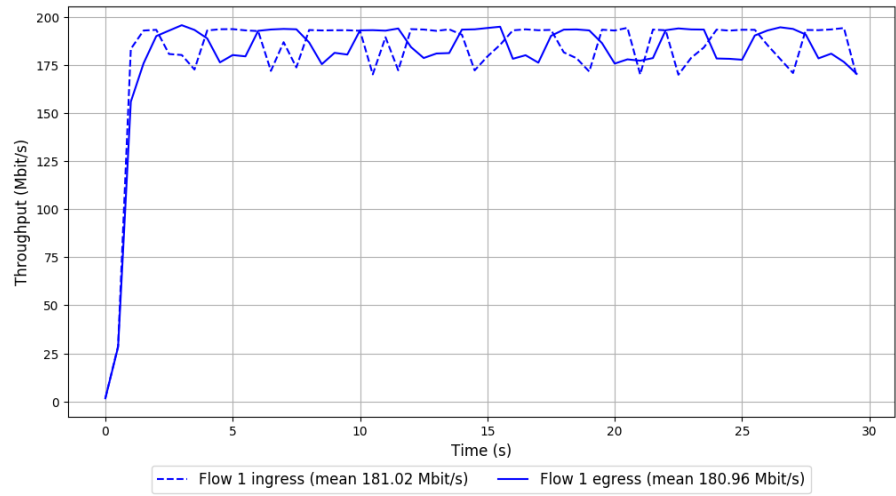
-- Flow 1:

Average throughput: 180.96 Mbit/s

95th percentile per-packet one-way delay: 71.088 ms

Loss rate: 0.43%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-16 15:33:24

End at: 2018-02-16 15:33:54

Below is generated by plot.py at 2018-02-16 20:17:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.46 Mbit/s

95th percentile per-packet one-way delay: 64.921 ms

Loss rate: 0.47%

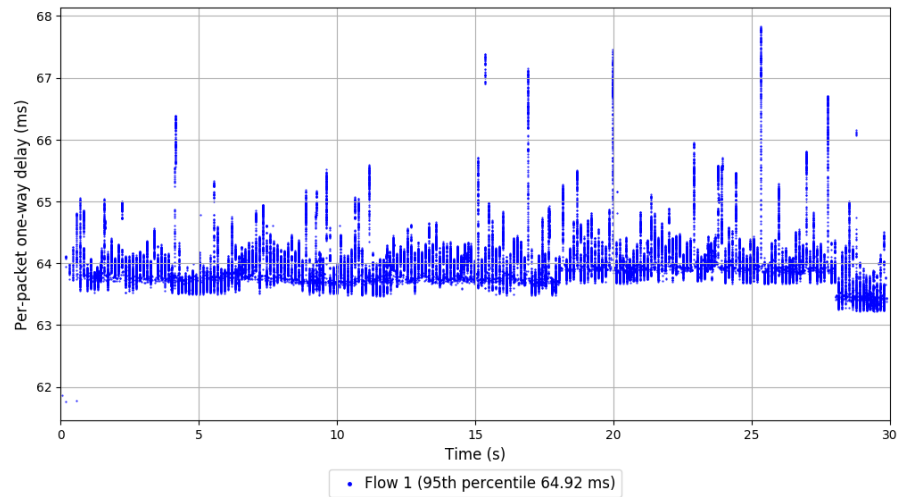
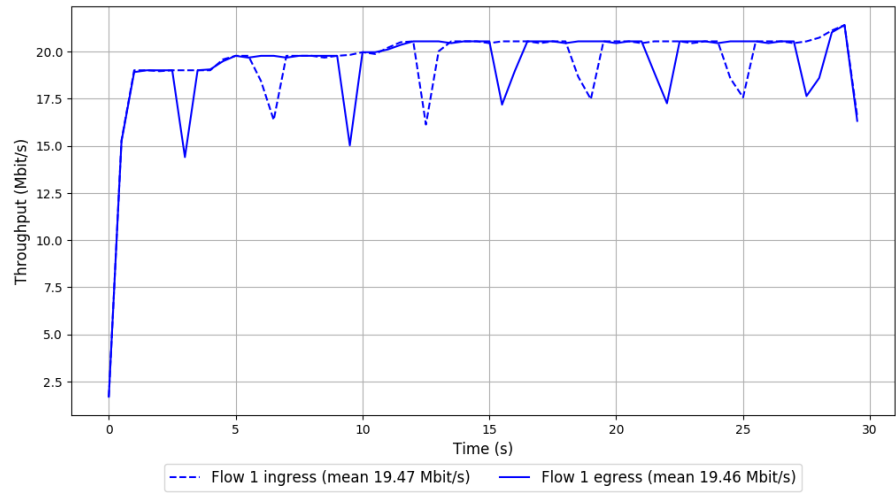
-- Flow 1:

Average throughput: 19.46 Mbit/s

95th percentile per-packet one-way delay: 64.921 ms

Loss rate: 0.47%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-16 15:48:05

End at: 2018-02-16 15:48:35

Below is generated by plot.py at 2018-02-16 20:17:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.85 Mbit/s

95th percentile per-packet one-way delay: 64.723 ms

Loss rate: 0.42%

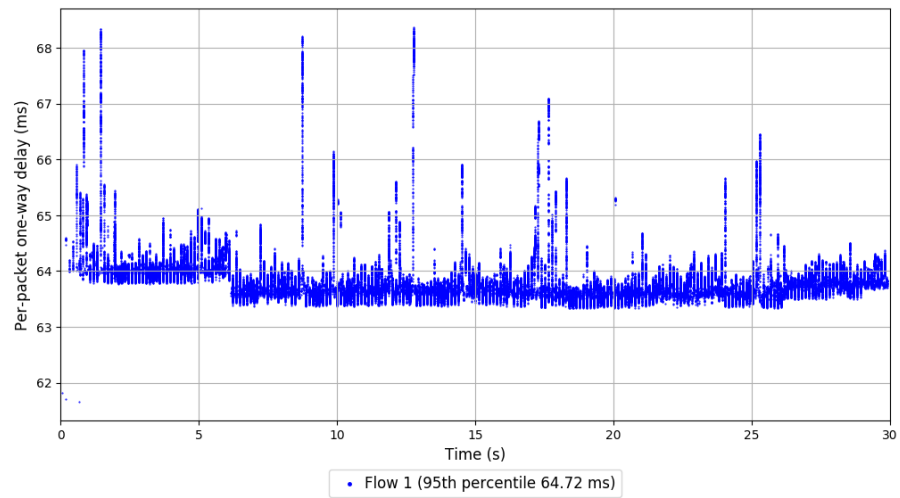
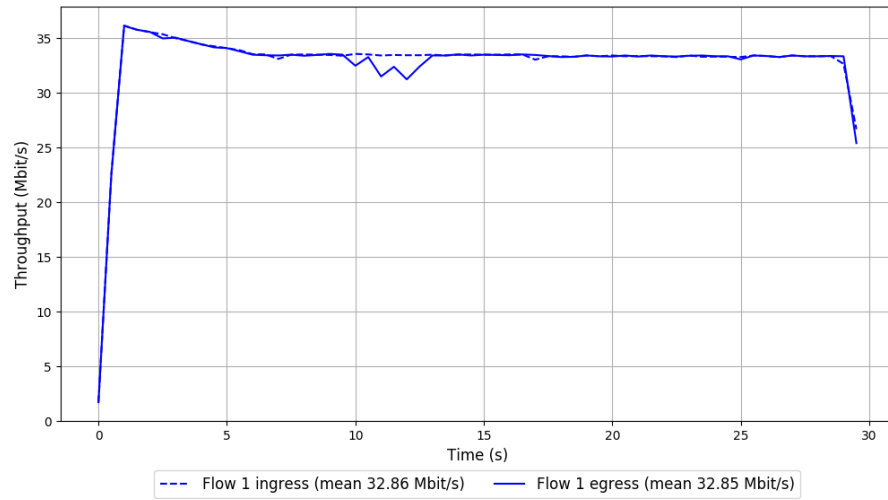
-- Flow 1:

Average throughput: 32.85 Mbit/s

95th percentile per-packet one-way delay: 64.723 ms

Loss rate: 0.42%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

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

End at: 2018-02-16 16:03:23

Below is generated by plot.py at 2018-02-16 20:17:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.25 Mbit/s

95th percentile per-packet one-way delay: 64.355 ms

Loss rate: 0.42%

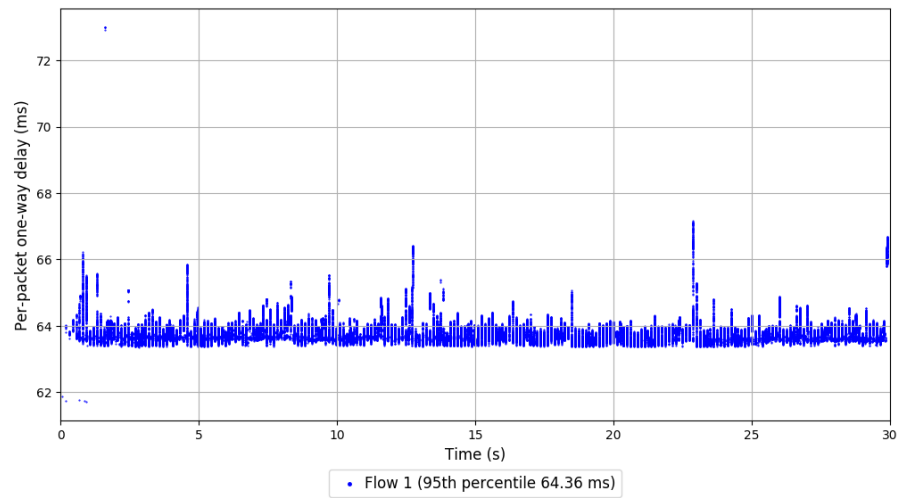
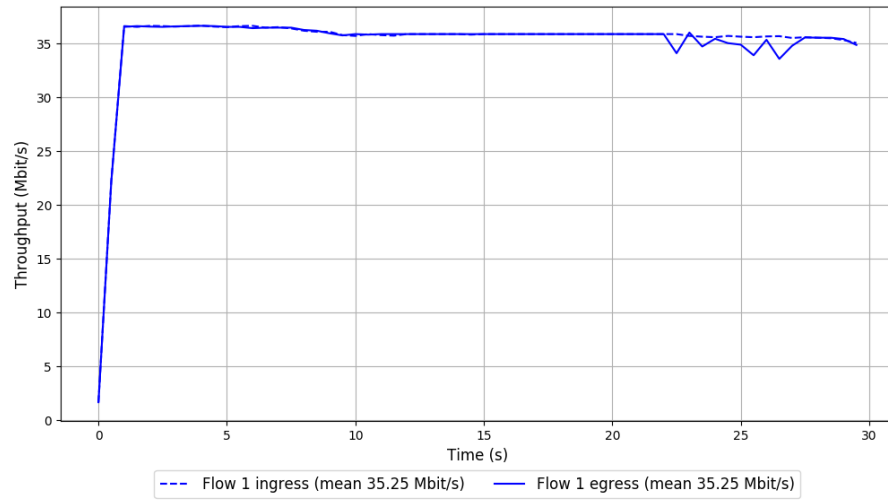
-- Flow 1:

Average throughput: 35.25 Mbit/s

95th percentile per-packet one-way delay: 64.355 ms

Loss rate: 0.42%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

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

End at: 2018-02-16 16:18:23

Below is generated by plot.py at 2018-02-16 20:17:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.60 Mbit/s

95th percentile per-packet one-way delay: 71.693 ms

Loss rate: 0.32%

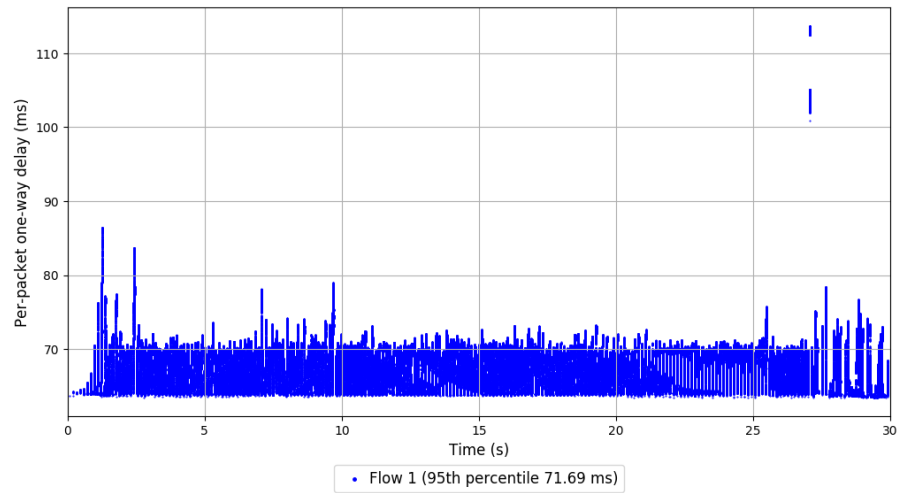
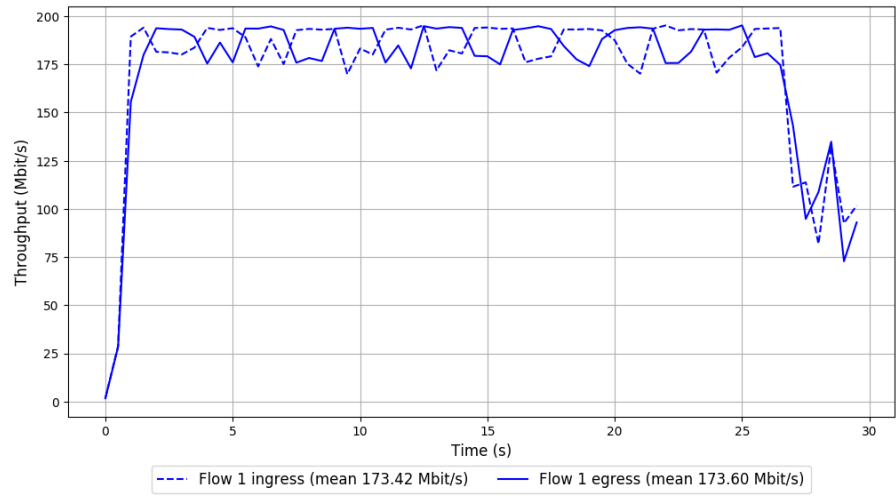
-- Flow 1:

Average throughput: 173.60 Mbit/s

95th percentile per-packet one-way delay: 71.693 ms

Loss rate: 0.32%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

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

End at: 2018-02-16 16:33:32

Below is generated by plot.py at 2018-02-16 20:17:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.58 Mbit/s

95th percentile per-packet one-way delay: 64.802 ms

Loss rate: 0.42%

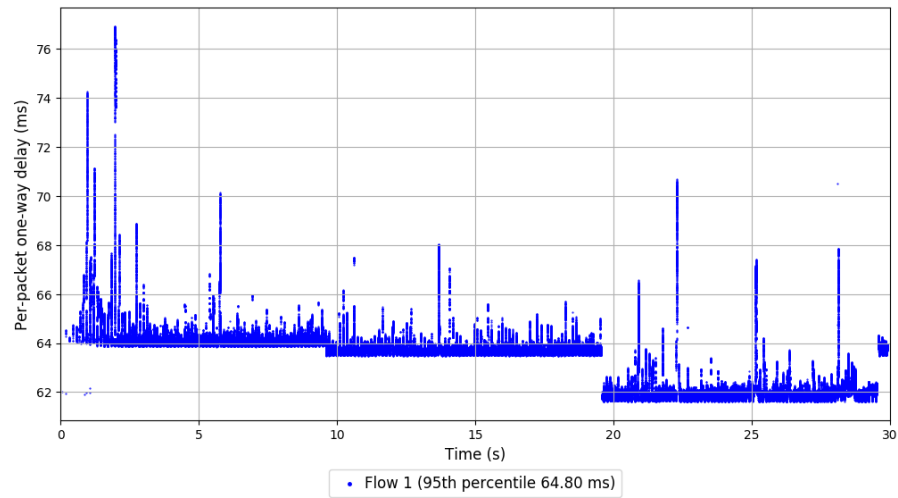
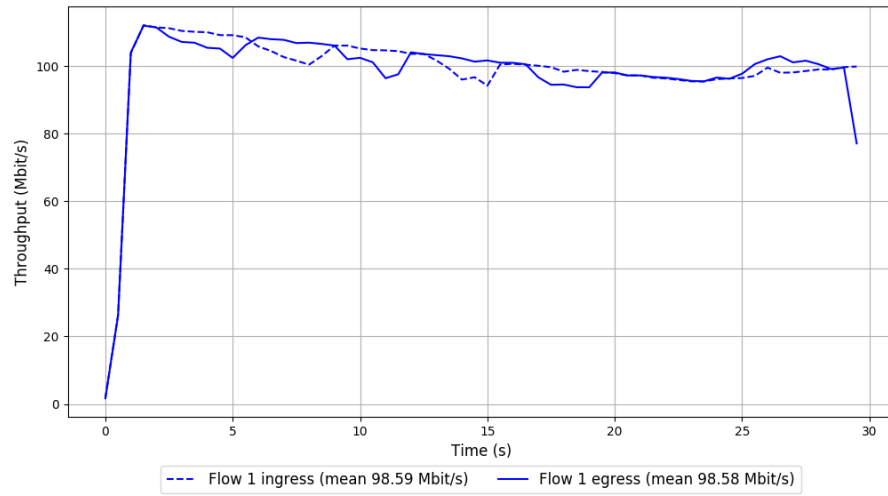
-- Flow 1:

Average throughput: 98.58 Mbit/s

95th percentile per-packet one-way delay: 64.802 ms

Loss rate: 0.42%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-16 16:47:54

End at: 2018-02-16 16:48:24

Below is generated by plot.py at 2018-02-16 20:17:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.04 Mbit/s

95th percentile per-packet one-way delay: 65.903 ms

Loss rate: 0.42%

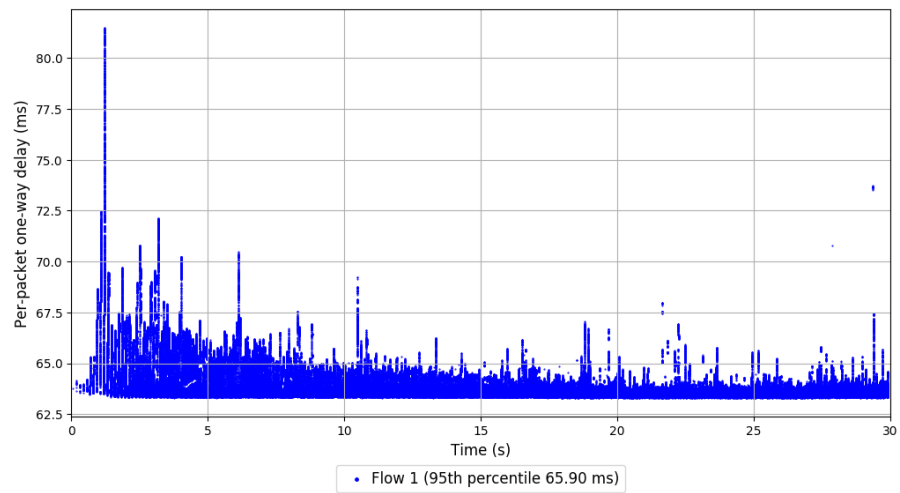
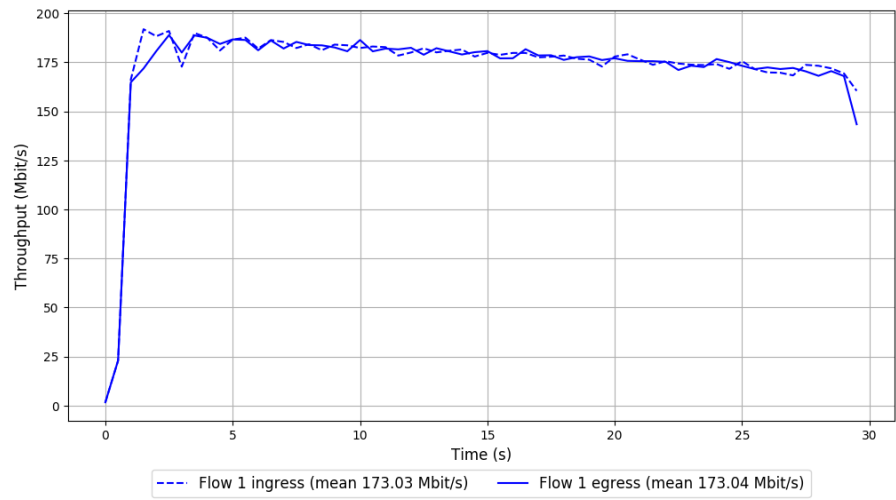
-- Flow 1:

Average throughput: 173.04 Mbit/s

95th percentile per-packet one-way delay: 65.903 ms

Loss rate: 0.42%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-16 17:02:54

End at: 2018-02-16 17:03:24

Below is generated by plot.py at 2018-02-16 20:17:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.33 Mbit/s

95th percentile per-packet one-way delay: 64.203 ms

Loss rate: 0.52%

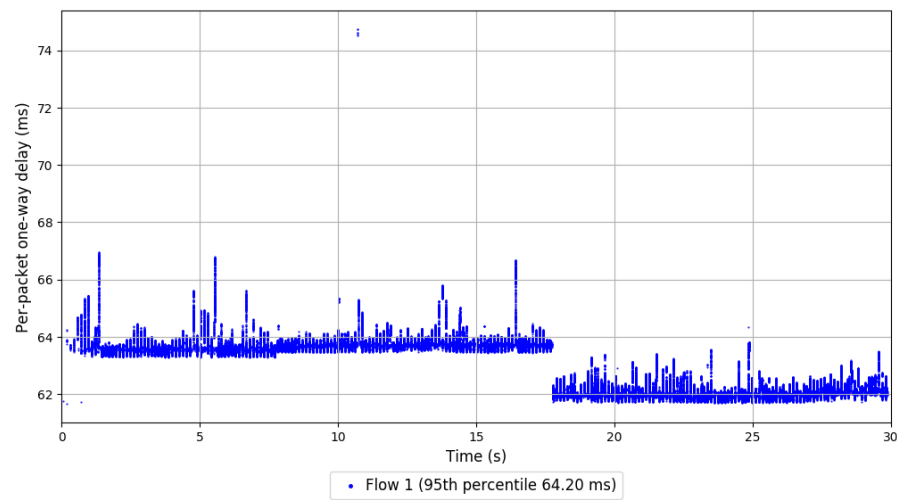
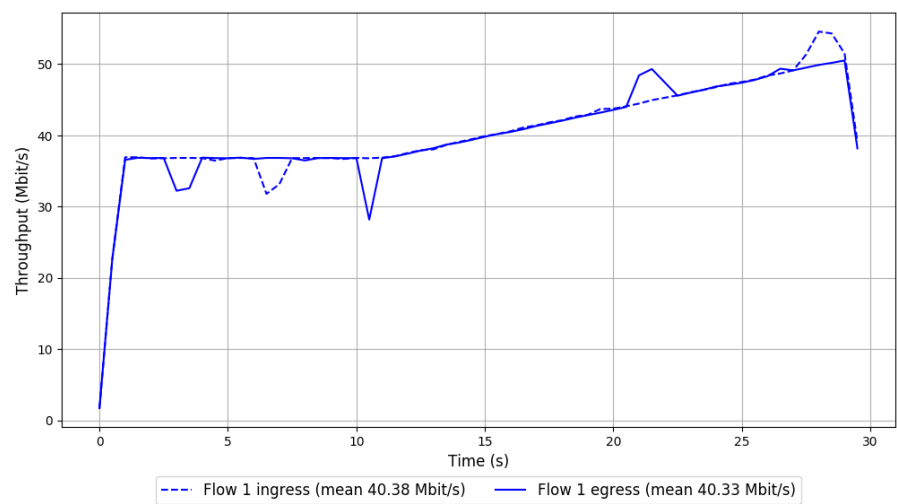
-- Flow 1:

Average throughput: 40.33 Mbit/s

95th percentile per-packet one-way delay: 64.203 ms

Loss rate: 0.52%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-02-16 14:52:10

End at: 2018-02-16 14:52:40

Below is generated by plot.py at 2018-02-16 20:21:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 296.42 Mbit/s

95th percentile per-packet one-way delay: 274.718 ms

Loss rate: 4.18%

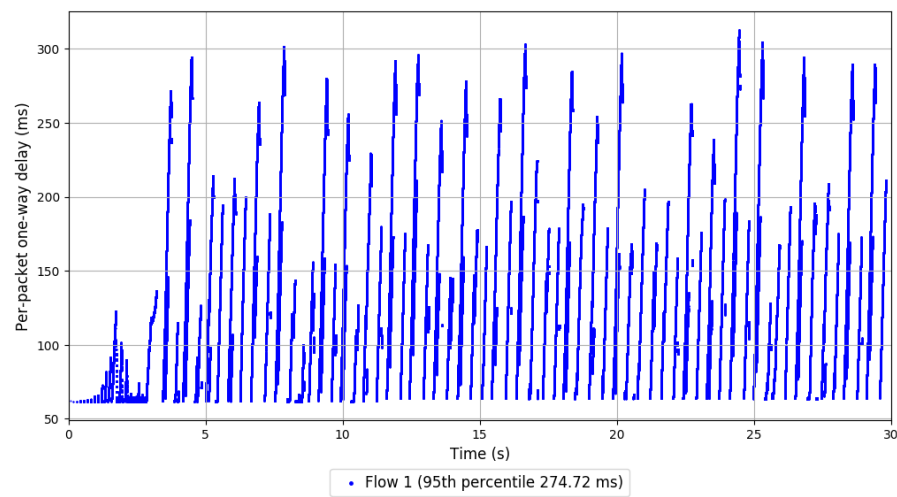
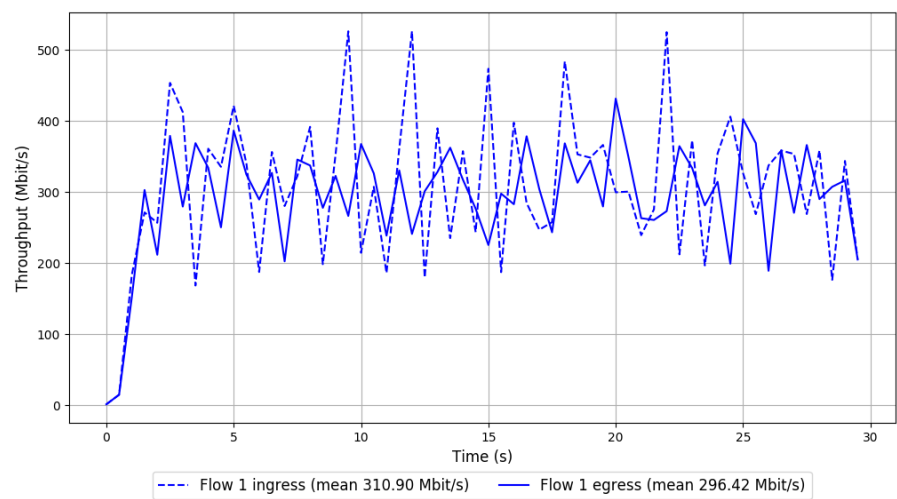
-- Flow 1:

Average throughput: 296.42 Mbit/s

95th percentile per-packet one-way delay: 274.718 ms

Loss rate: 4.18%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-16 15:07:16

End at: 2018-02-16 15:07:46

Below is generated by plot.py at 2018-02-16 20:21:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 267.30 Mbit/s

95th percentile per-packet one-way delay: 104.042 ms

Loss rate: 0.82%

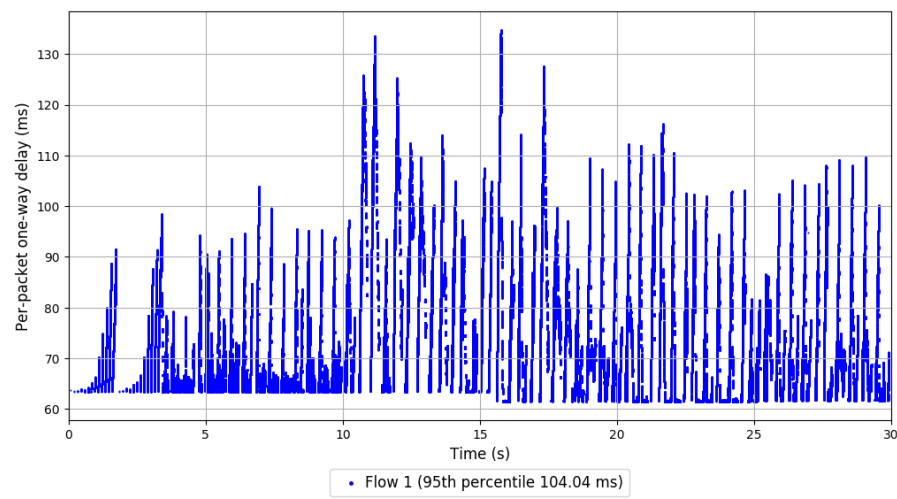
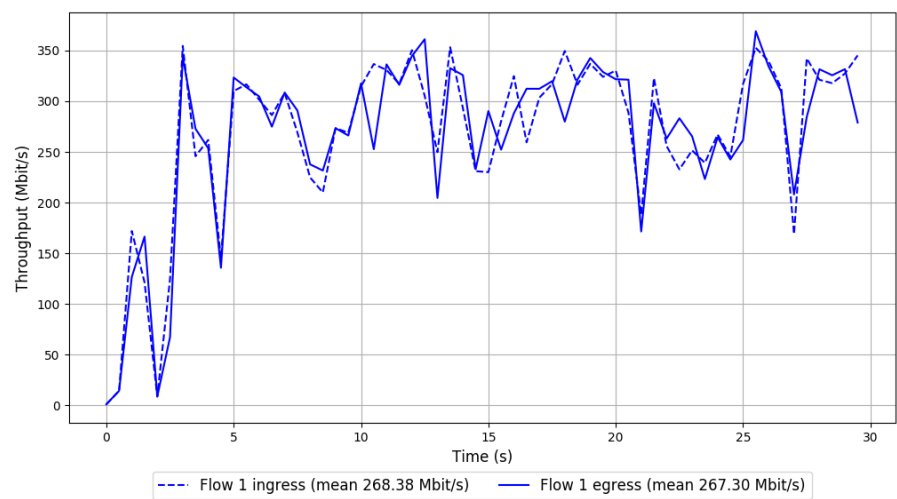
-- Flow 1:

Average throughput: 267.30 Mbit/s

95th percentile per-packet one-way delay: 104.042 ms

Loss rate: 0.82%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-16 15:22:26

End at: 2018-02-16 15:22:56

Below is generated by plot.py at 2018-02-16 20:21:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 246.10 Mbit/s

95th percentile per-packet one-way delay: 96.558 ms

Loss rate: 0.00%

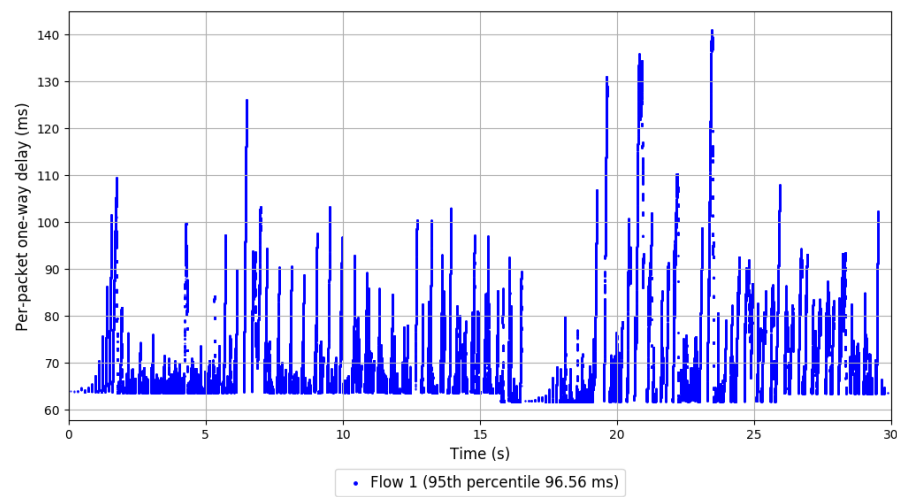
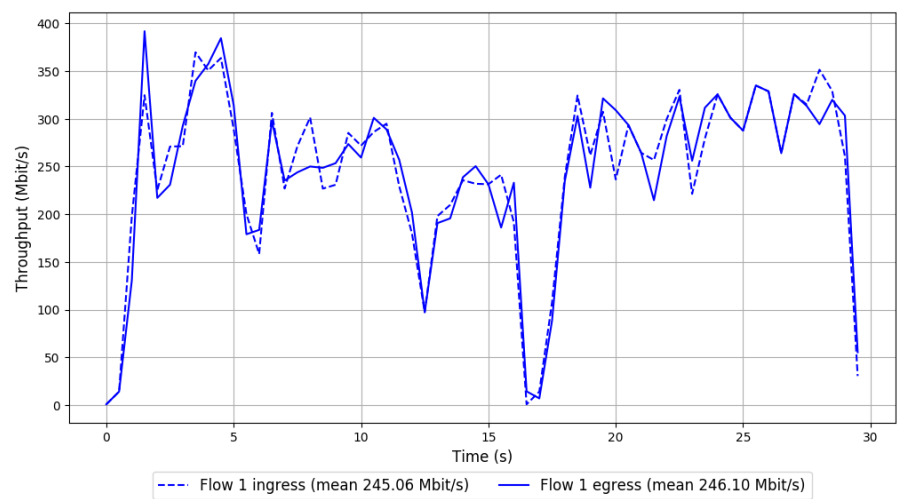
-- Flow 1:

Average throughput: 246.10 Mbit/s

95th percentile per-packet one-way delay: 96.558 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-16 15:36:53

End at: 2018-02-16 15:37:23

Below is generated by plot.py at 2018-02-16 20:21:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.97 Mbit/s

95th percentile per-packet one-way delay: 114.519 ms

Loss rate: 1.05%

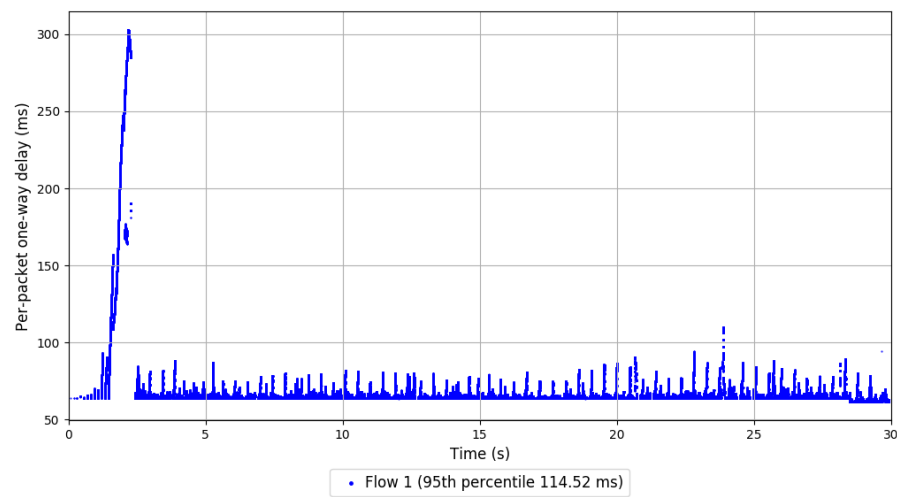
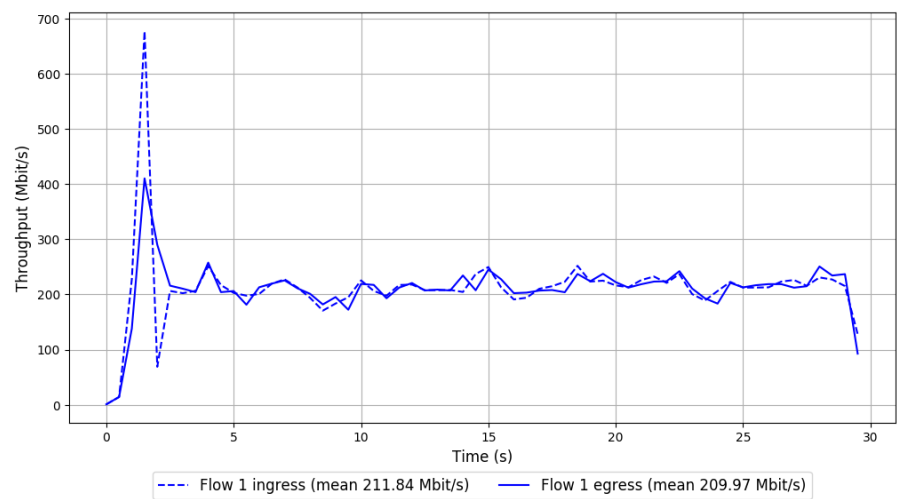
-- Flow 1:

Average throughput: 209.97 Mbit/s

95th percentile per-packet one-way delay: 114.519 ms

Loss rate: 1.05%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-16 15:51:44

End at: 2018-02-16 15:52:14

Below is generated by plot.py at 2018-02-16 20:21:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 239.05 Mbit/s

95th percentile per-packet one-way delay: 149.661 ms

Loss rate: 2.40%

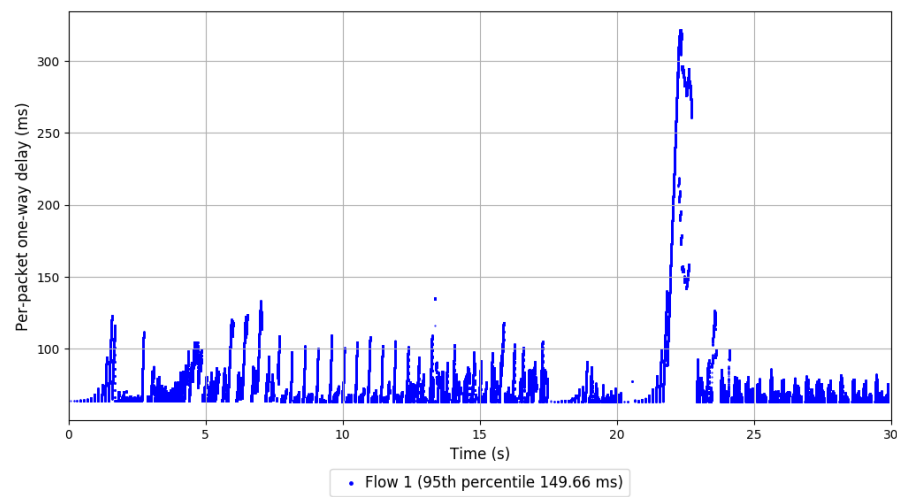
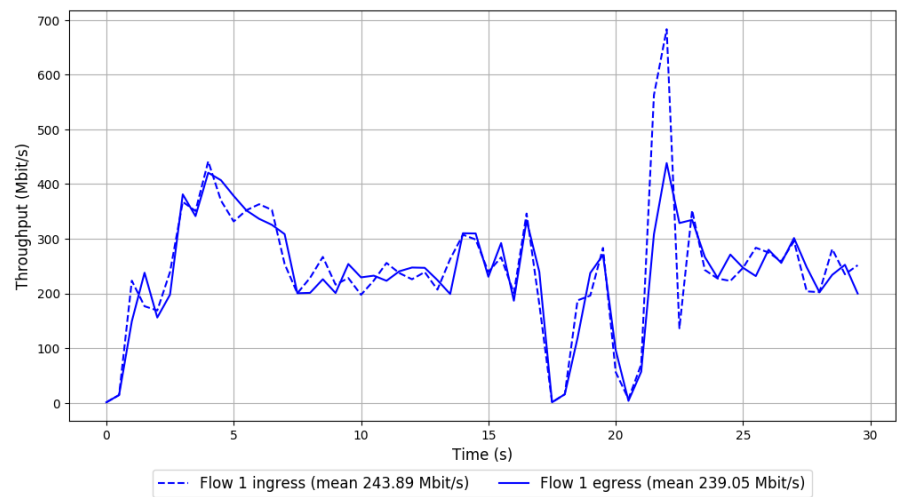
-- Flow 1:

Average throughput: 239.05 Mbit/s

95th percentile per-packet one-way delay: 149.661 ms

Loss rate: 2.40%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-16 16:06:30

End at: 2018-02-16 16:07:01

Below is generated by plot.py at 2018-02-16 20:21:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.39 Mbit/s

95th percentile per-packet one-way delay: 83.906 ms

Loss rate: 0.33%

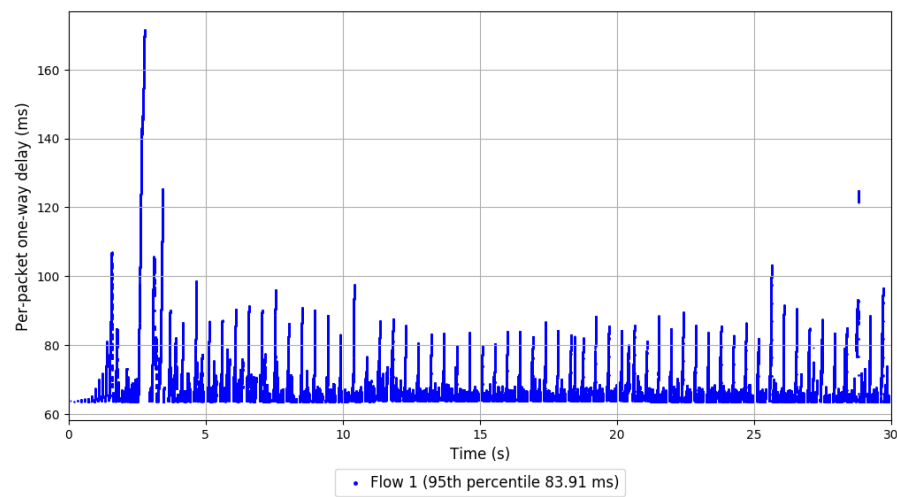
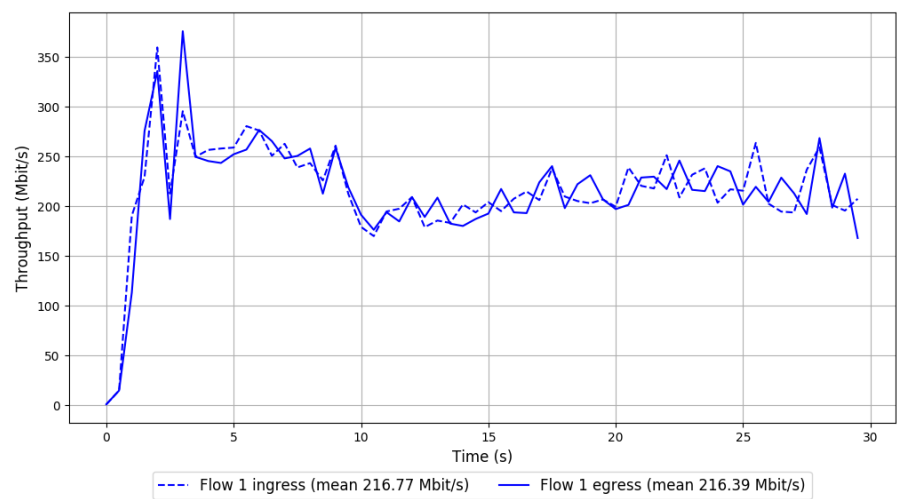
-- Flow 1:

Average throughput: 216.39 Mbit/s

95th percentile per-packet one-way delay: 83.906 ms

Loss rate: 0.33%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-16 16:21:41

End at: 2018-02-16 16:22:11

Below is generated by plot.py at 2018-02-16 20:22:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 270.51 Mbit/s

95th percentile per-packet one-way delay: 154.178 ms

Loss rate: 1.18%

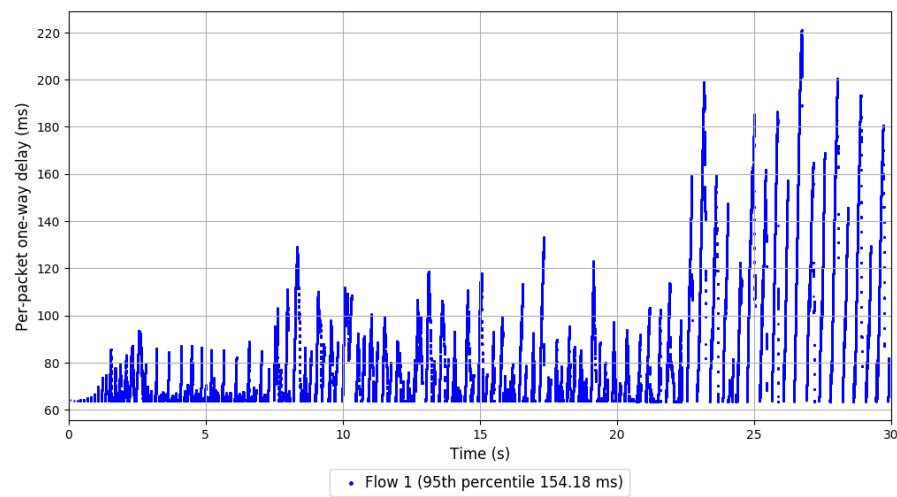
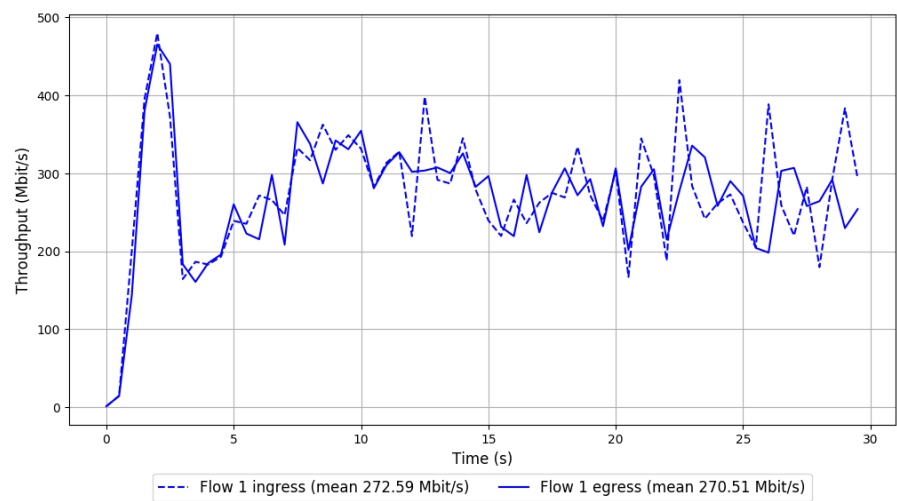
-- Flow 1:

Average throughput: 270.51 Mbit/s

95th percentile per-packet one-way delay: 154.178 ms

Loss rate: 1.18%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-16 16:36:43

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

Below is generated by plot.py at 2018-02-16 20:22:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.74 Mbit/s

95th percentile per-packet one-way delay: 143.029 ms

Loss rate: 0.86%

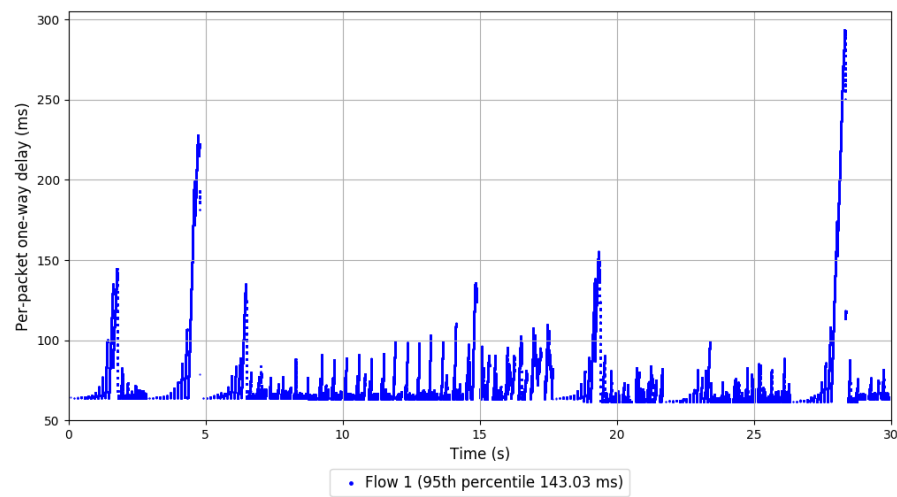
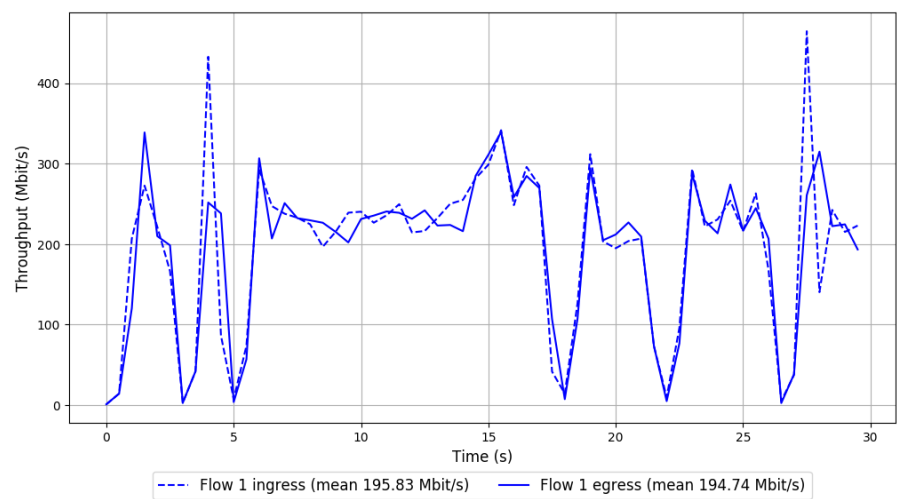
-- Flow 1:

Average throughput: 194.74 Mbit/s

95th percentile per-packet one-way delay: 143.029 ms

Loss rate: 0.86%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-16 16:51:38

End at: 2018-02-16 16:52:08

Below is generated by plot.py at 2018-02-16 20:25:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 272.57 Mbit/s

95th percentile per-packet one-way delay: 105.288 ms

Loss rate: 0.64%

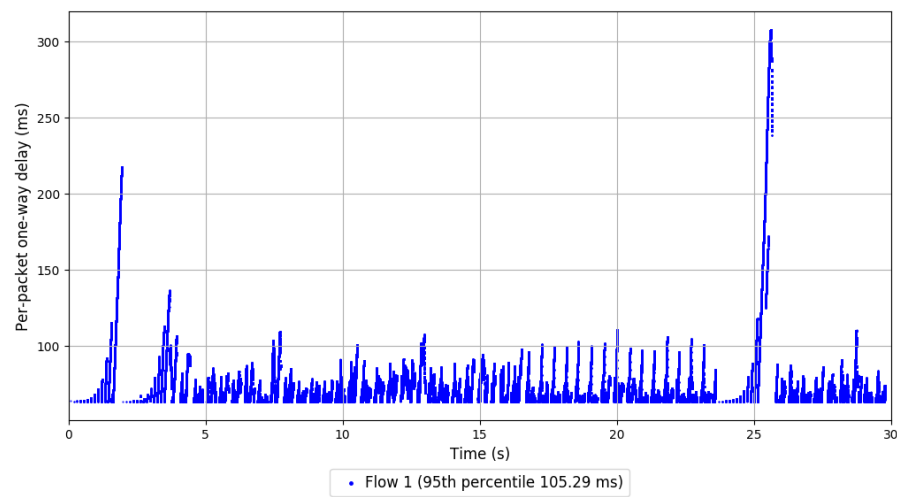
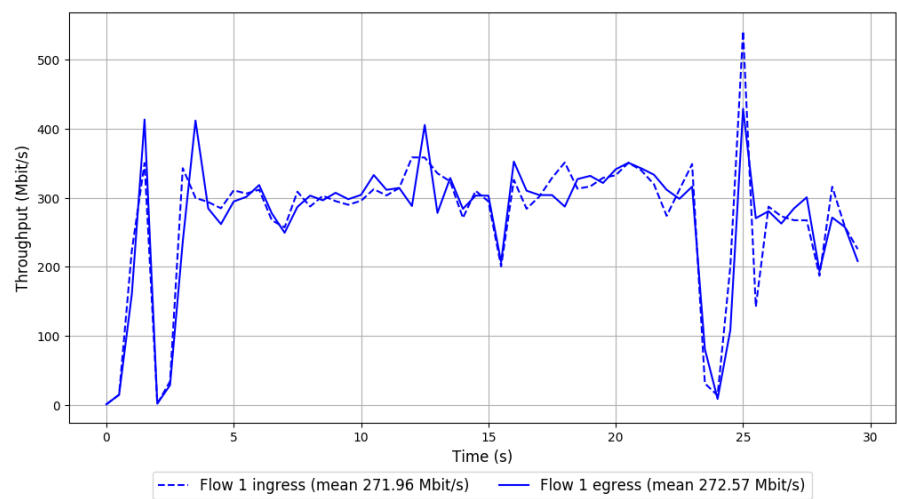
-- Flow 1:

Average throughput: 272.57 Mbit/s

95th percentile per-packet one-way delay: 105.288 ms

Loss rate: 0.64%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-16 17:06:28

End at: 2018-02-16 17:06:58

Below is generated by plot.py at 2018-02-16 20:25:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 270.00 Mbit/s

95th percentile per-packet one-way delay: 158.434 ms

Loss rate: 0.20%

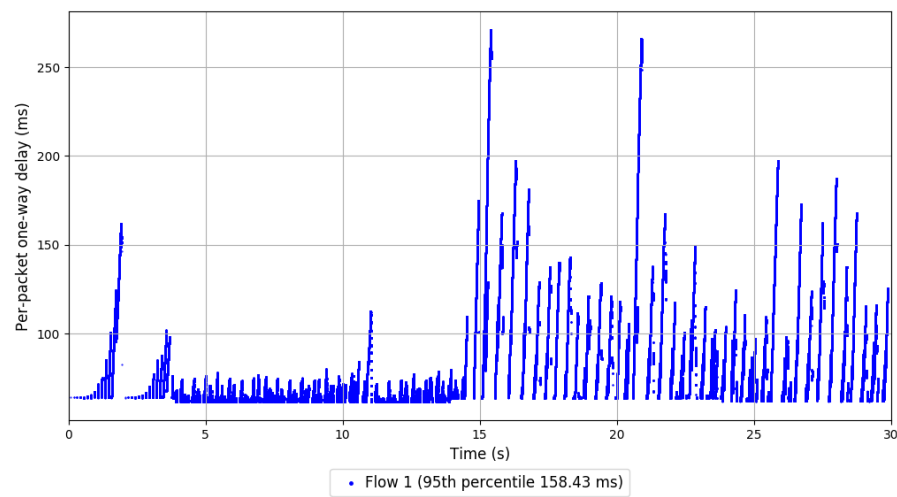
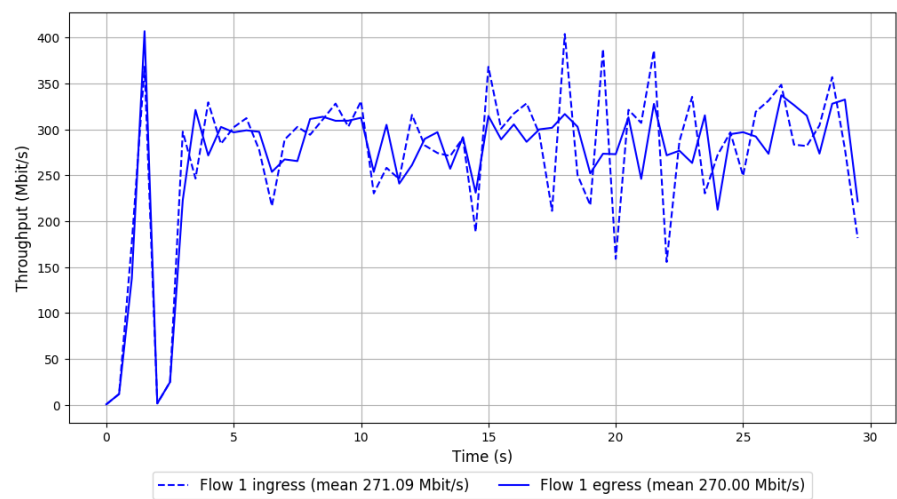
-- Flow 1:

Average throughput: 270.00 Mbit/s

95th percentile per-packet one-way delay: 158.434 ms

Loss rate: 0.20%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-02-16 14:38:54

End at: 2018-02-16 14:39:24

Below is generated by plot.py at 2018-02-16 20:25:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.86 Mbit/s

95th percentile per-packet one-way delay: 61.867 ms

Loss rate: 0.37%

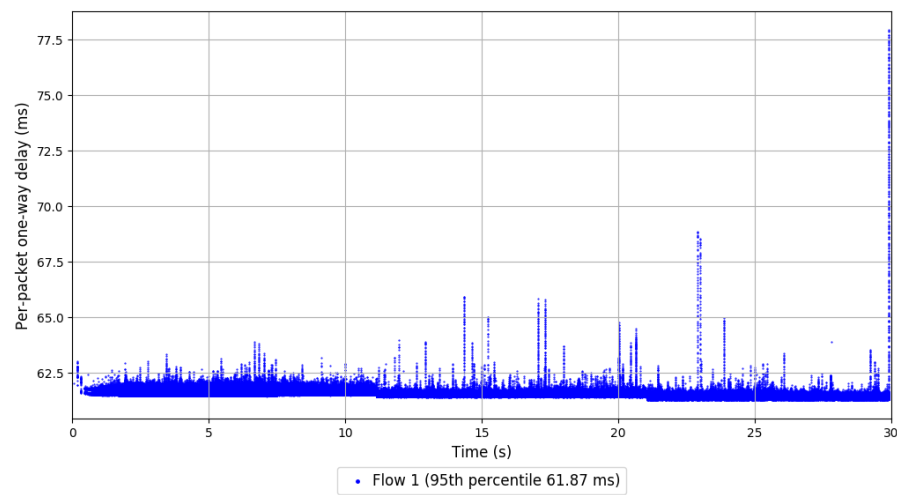
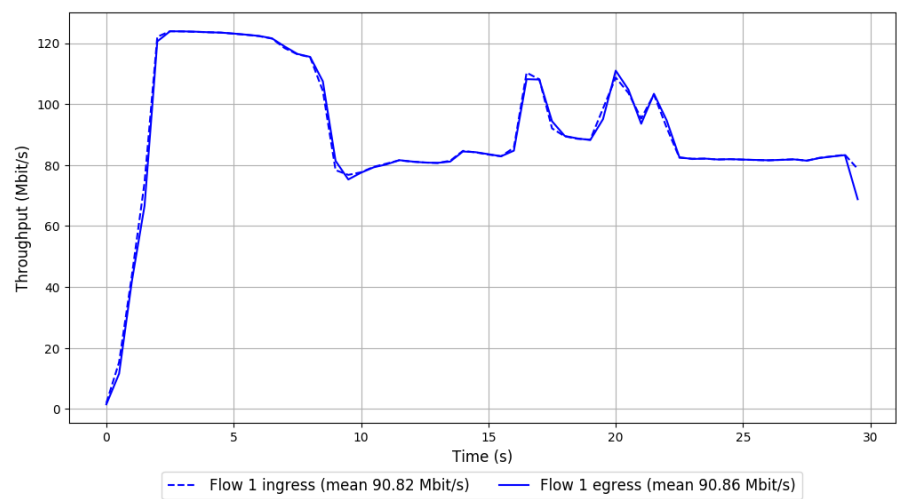
-- Flow 1:

Average throughput: 90.86 Mbit/s

95th percentile per-packet one-way delay: 61.867 ms

Loss rate: 0.37%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-16 14:54:03

End at: 2018-02-16 14:54:33

Below is generated by plot.py at 2018-02-16 20:25:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.46 Mbit/s

95th percentile per-packet one-way delay: 63.366 ms

Loss rate: 0.45%

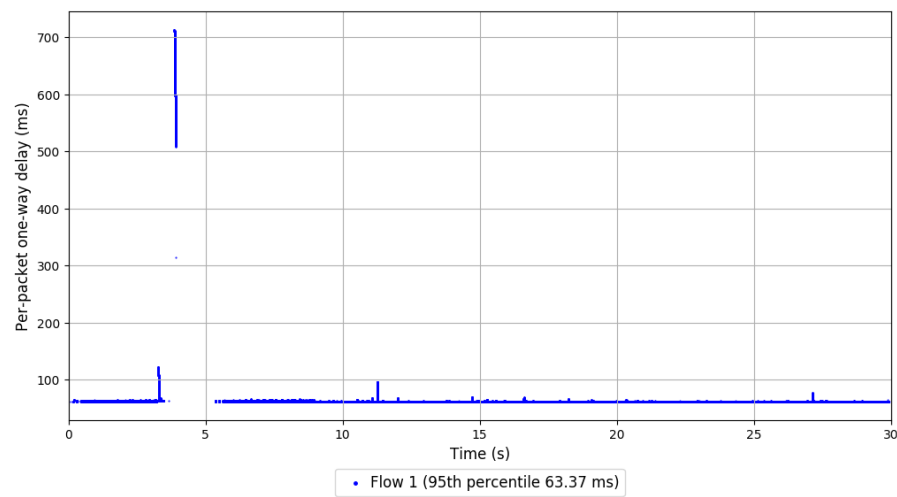
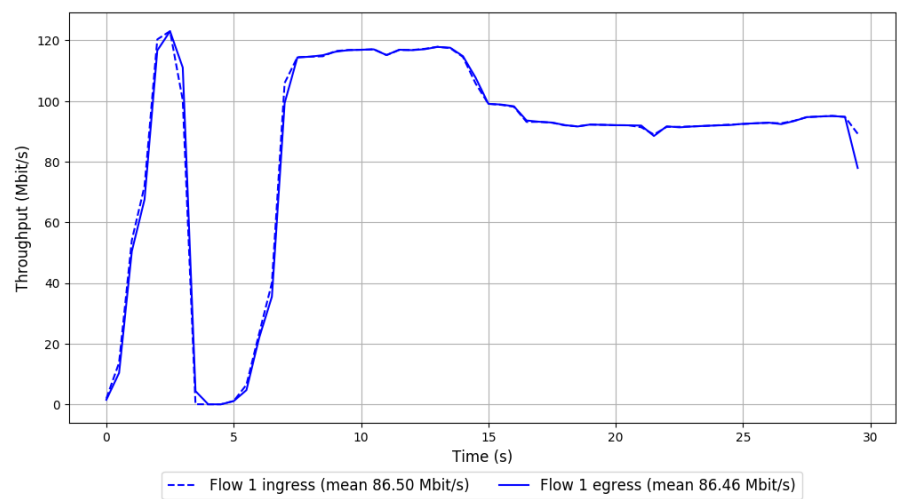
-- Flow 1:

Average throughput: 86.46 Mbit/s

95th percentile per-packet one-way delay: 63.366 ms

Loss rate: 0.45%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-16 15:09:04

End at: 2018-02-16 15:09:34

Below is generated by plot.py at 2018-02-16 20:25:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.40 Mbit/s

95th percentile per-packet one-way delay: 63.569 ms

Loss rate: 0.18%

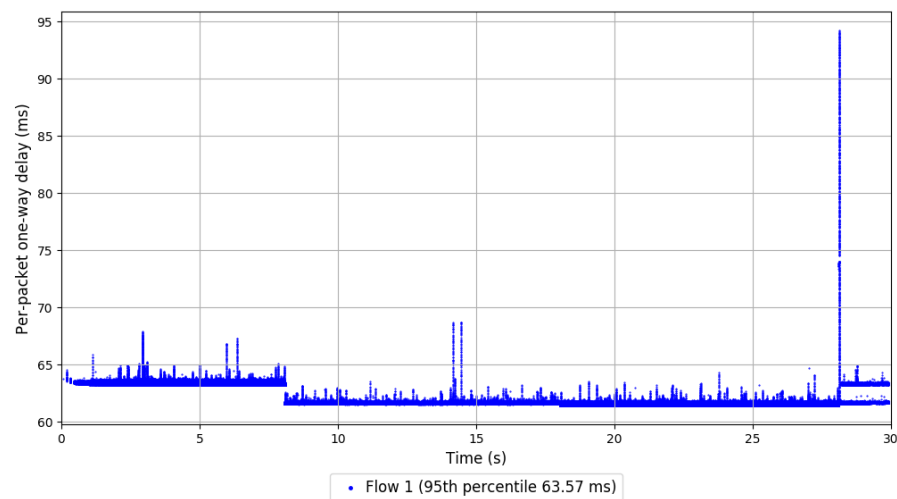
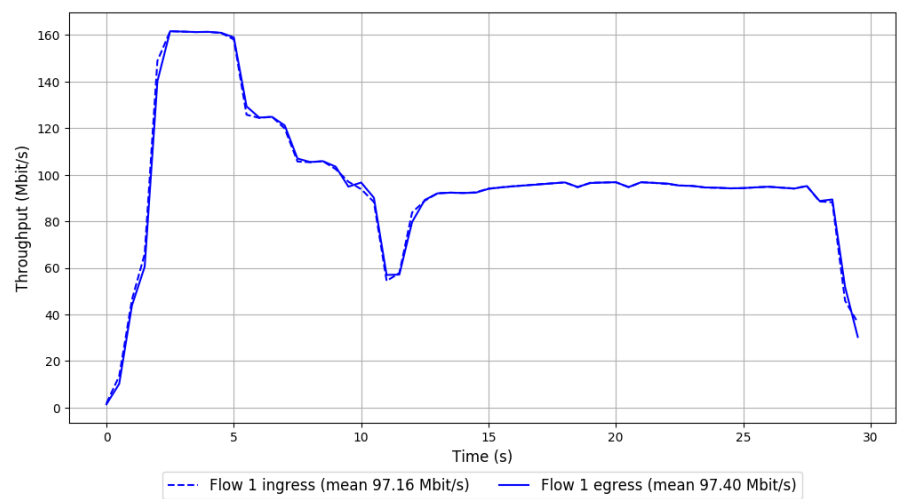
-- Flow 1:

Average throughput: 97.40 Mbit/s

95th percentile per-packet one-way delay: 63.569 ms

Loss rate: 0.18%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-16 15:24:15

End at: 2018-02-16 15:24:45

Below is generated by plot.py at 2018-02-16 20:25:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.31 Mbit/s

95th percentile per-packet one-way delay: 63.749 ms

Loss rate: 0.09%

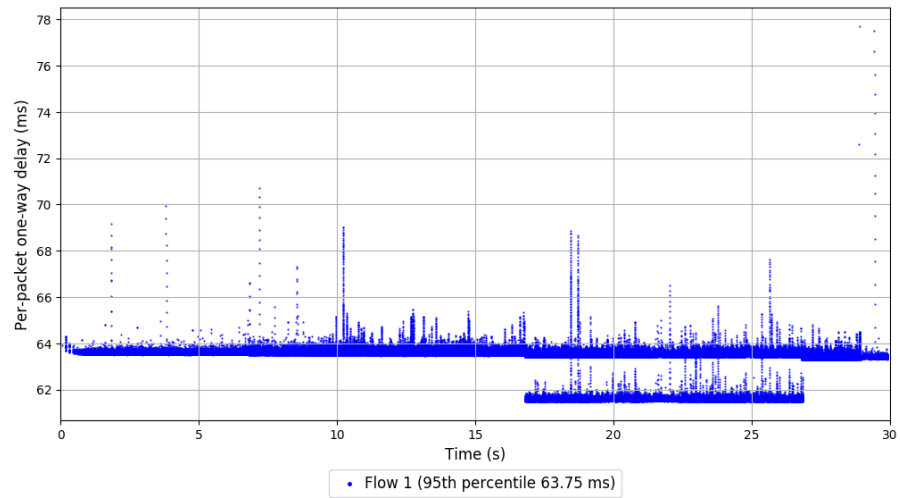
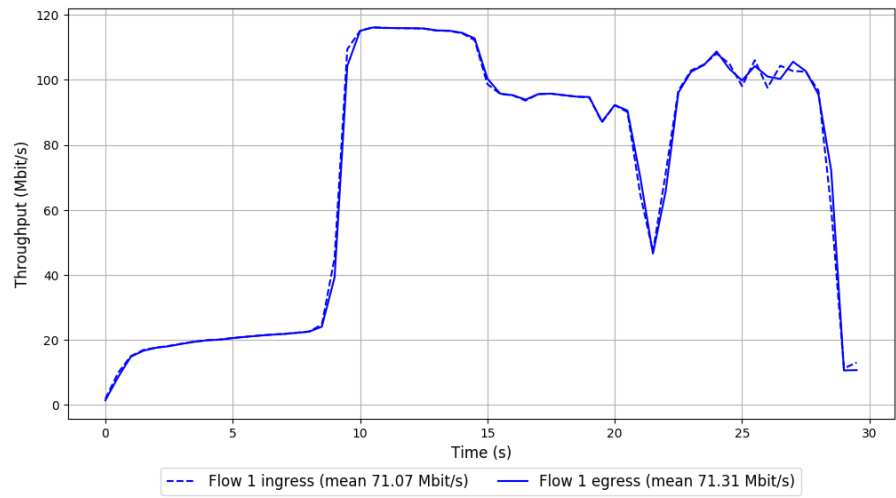
-- Flow 1:

Average throughput: 71.31 Mbit/s

95th percentile per-packet one-way delay: 63.749 ms

Loss rate: 0.09%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-16 15:38:38

End at: 2018-02-16 15:39:08

Below is generated by plot.py at 2018-02-16 20:25:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.89 Mbit/s

95th percentile per-packet one-way delay: 63.648 ms

Loss rate: 0.53%

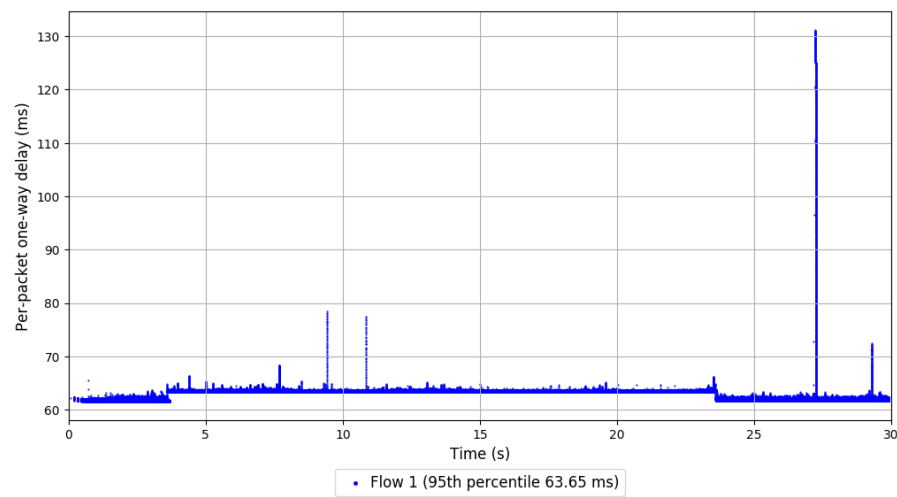
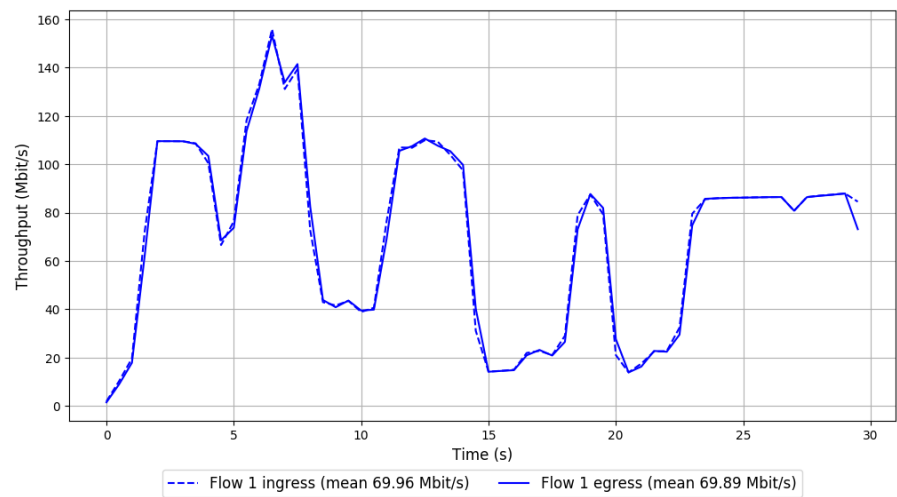
-- Flow 1:

Average throughput: 69.89 Mbit/s

95th percentile per-packet one-way delay: 63.648 ms

Loss rate: 0.53%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-16 15:53:32

End at: 2018-02-16 15:54:02

Below is generated by plot.py at 2018-02-16 20:25:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.26 Mbit/s

95th percentile per-packet one-way delay: 63.683 ms

Loss rate: 0.35%

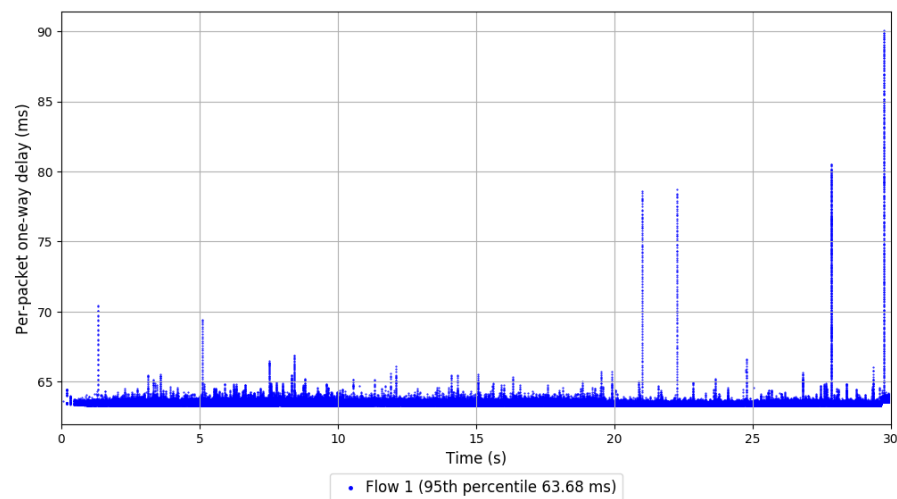
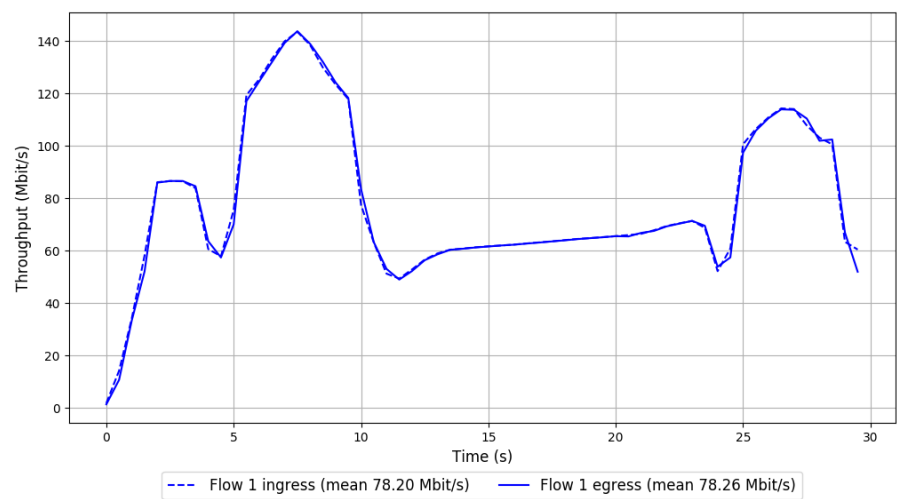
-- Flow 1:

Average throughput: 78.26 Mbit/s

95th percentile per-packet one-way delay: 63.683 ms

Loss rate: 0.35%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-16 16:08:18

End at: 2018-02-16 16:08:48

Below is generated by plot.py at 2018-02-16 20:26:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.04 Mbit/s

95th percentile per-packet one-way delay: 63.752 ms

Loss rate: 0.39%

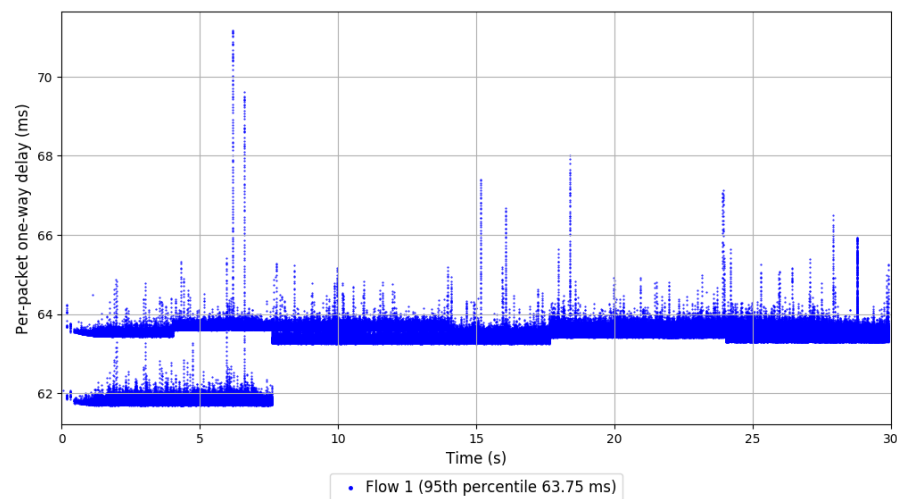
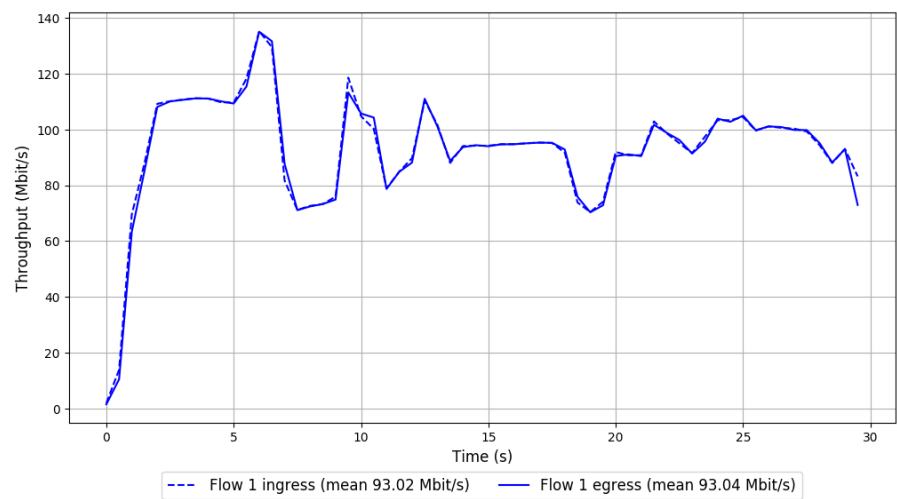
-- Flow 1:

Average throughput: 93.04 Mbit/s

95th percentile per-packet one-way delay: 63.752 ms

Loss rate: 0.39%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-16 16:23:33

End at: 2018-02-16 16:24:03

Below is generated by plot.py at 2018-02-16 20:26:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.45 Mbit/s

95th percentile per-packet one-way delay: 63.881 ms

Loss rate: 0.33%

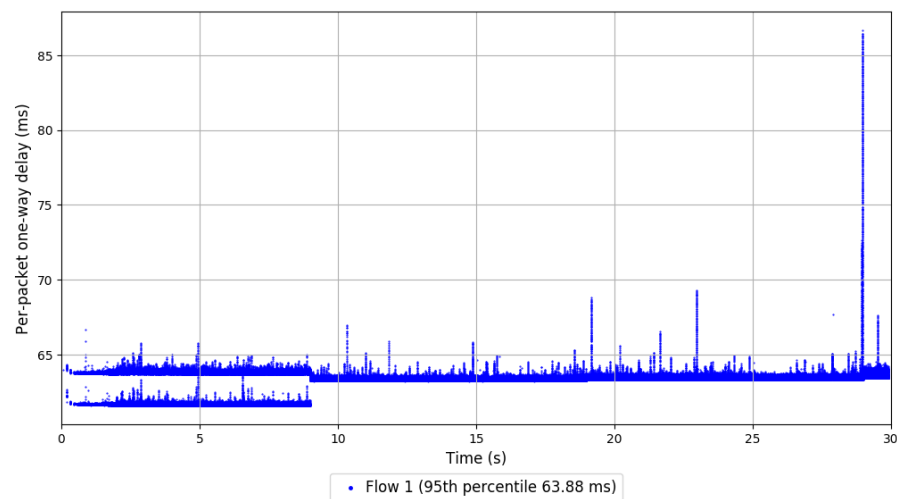
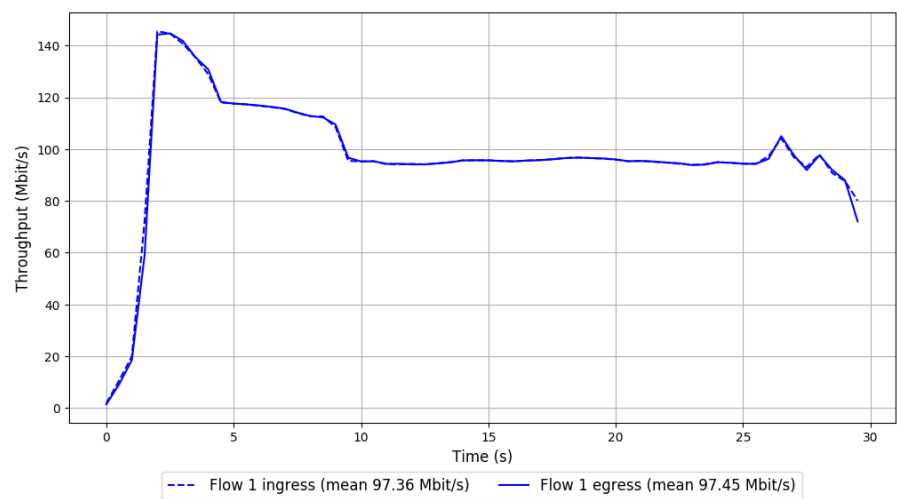
-- Flow 1:

Average throughput: 97.45 Mbit/s

95th percentile per-packet one-way delay: 63.881 ms

Loss rate: 0.33%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-16 16:38:30

End at: 2018-02-16 16:39:00

Below is generated by plot.py at 2018-02-16 20:27:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.21 Mbit/s

95th percentile per-packet one-way delay: 63.738 ms

Loss rate: 0.12%

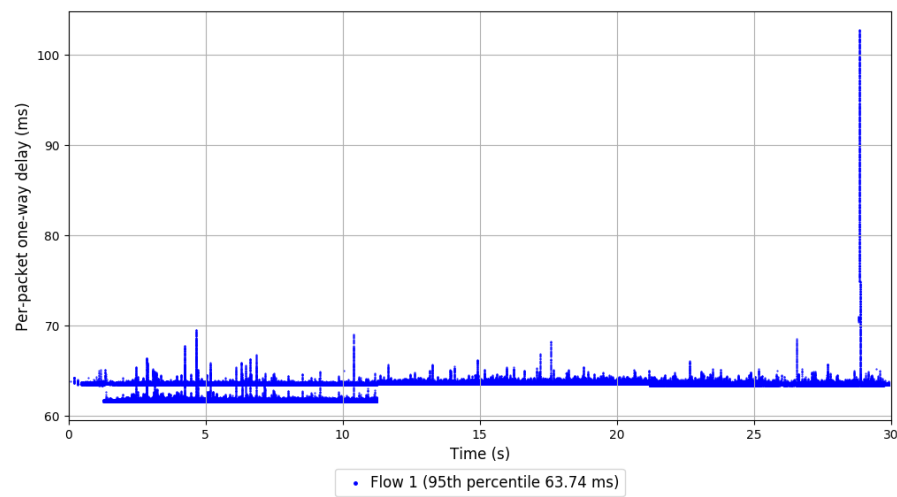
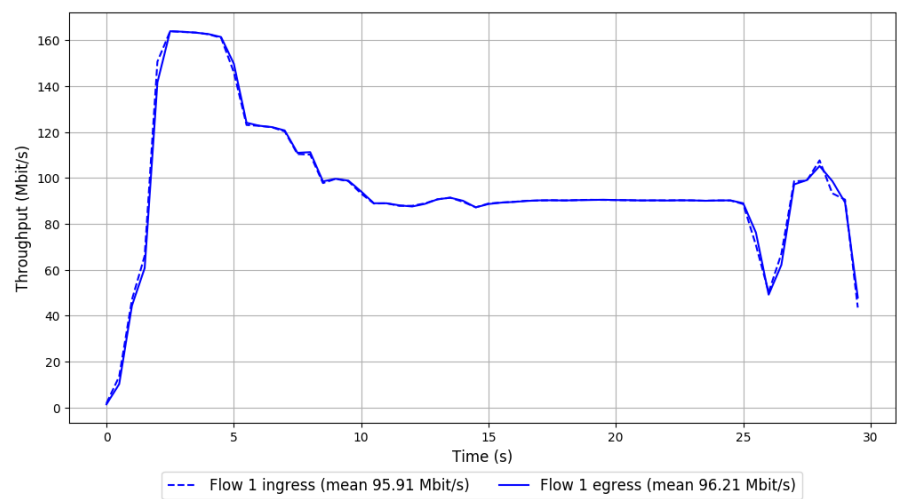
-- Flow 1:

Average throughput: 96.21 Mbit/s

95th percentile per-packet one-way delay: 63.738 ms

Loss rate: 0.12%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-16 16:53:28

End at: 2018-02-16 16:53:58

Below is generated by plot.py at 2018-02-16 20:27:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.53 Mbit/s

95th percentile per-packet one-way delay: 63.444 ms

Loss rate: 0.41%

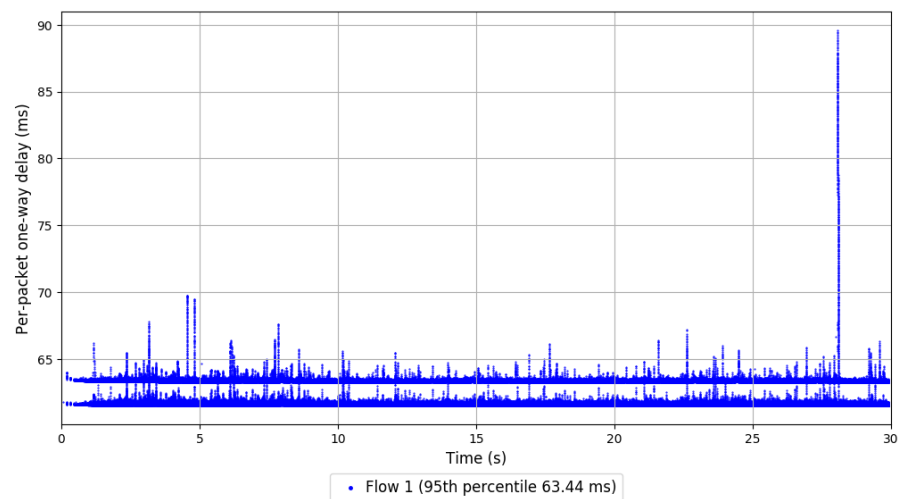
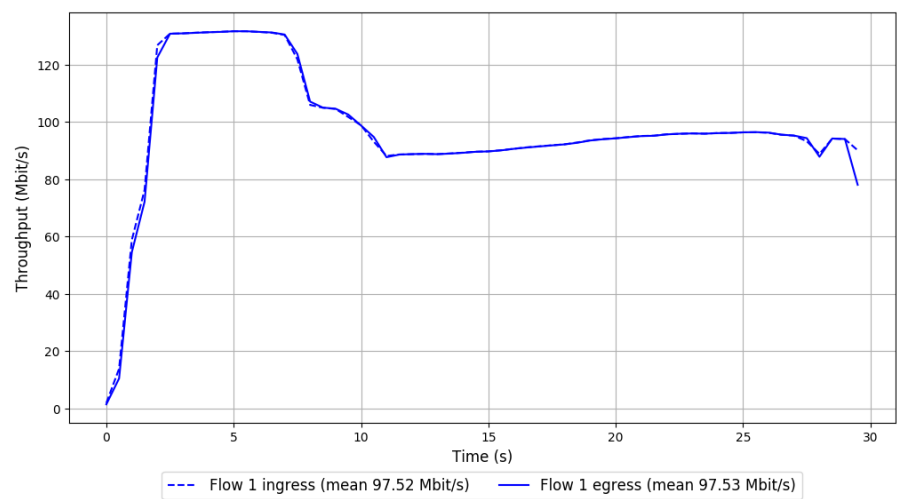
-- Flow 1:

Average throughput: 97.53 Mbit/s

95th percentile per-packet one-way delay: 63.444 ms

Loss rate: 0.41%

Run 10: Report of Copa — Data Link

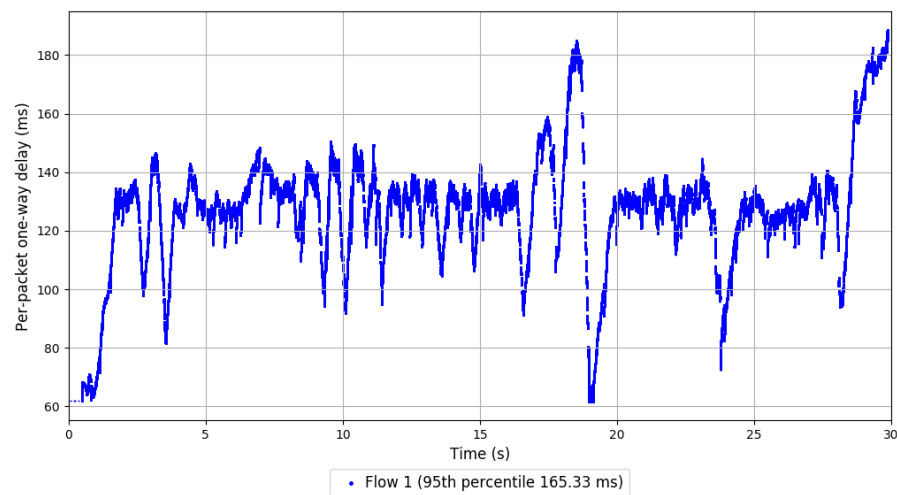
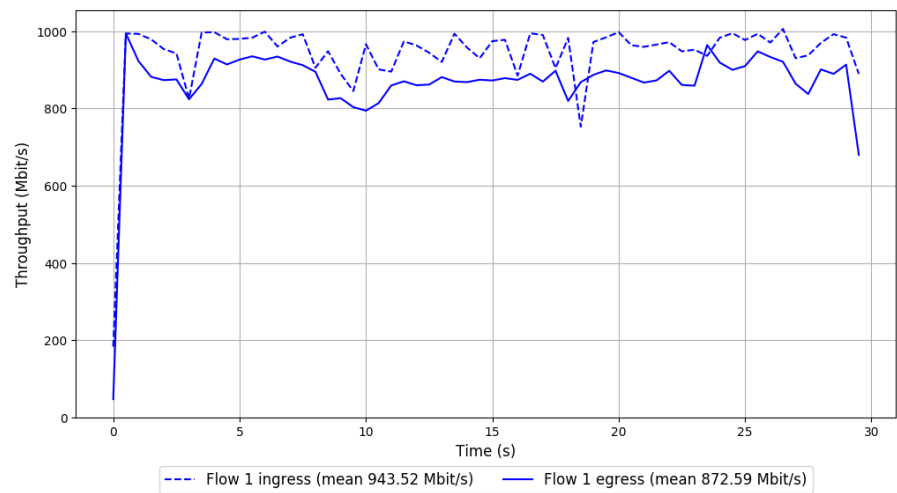


```
Run 1: Statistics of FillP

Start at: 2018-02-16 14:40:32
End at: 2018-02-16 14:41:02

# Below is generated by plot.py at 2018-02-16 20:42:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 872.59 Mbit/s
95th percentile per-packet one-way delay: 165.334 ms
Loss rate: 7.90%
-- Flow 1:
Average throughput: 872.59 Mbit/s
95th percentile per-packet one-way delay: 165.334 ms
Loss rate: 7.90%
```

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-16 14:55:37

End at: 2018-02-16 14:56:07

Below is generated by plot.py at 2018-02-16 20:42:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 852.84 Mbit/s

95th percentile per-packet one-way delay: 177.246 ms

Loss rate: 8.74%

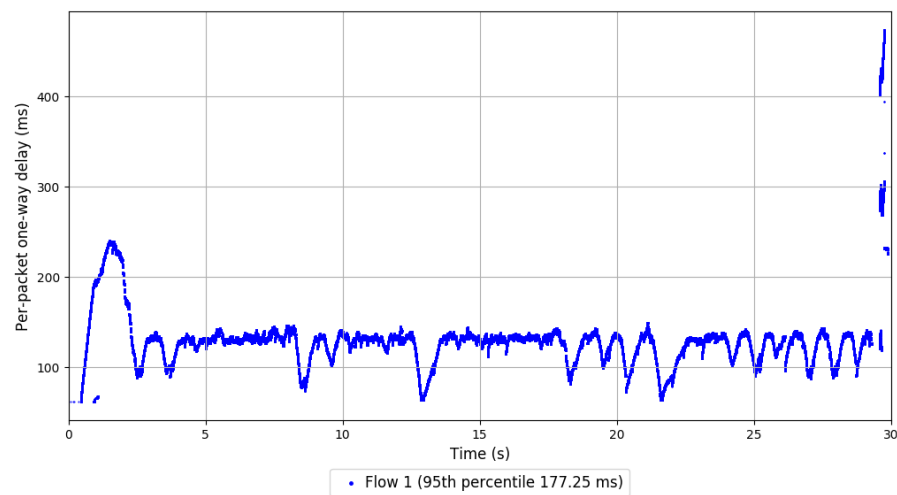
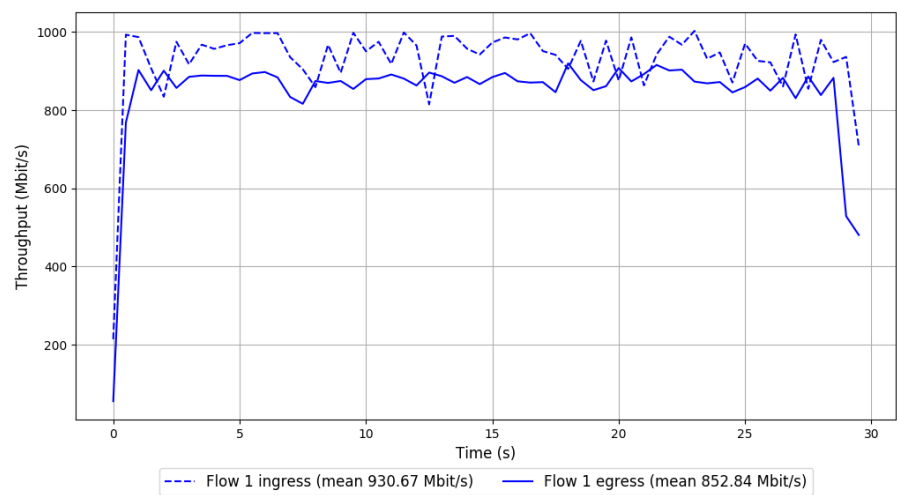
-- Flow 1:

Average throughput: 852.84 Mbit/s

95th percentile per-packet one-way delay: 177.246 ms

Loss rate: 8.74%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-16 15:10:48

End at: 2018-02-16 15:11:18

Below is generated by plot.py at 2018-02-16 20:43:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 925.21 Mbit/s

95th percentile per-packet one-way delay: 162.816 ms

Loss rate: 4.14%

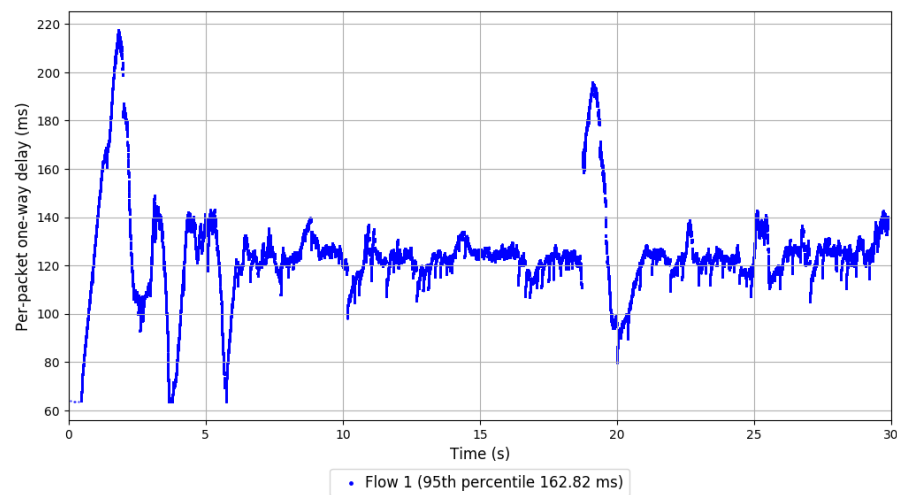
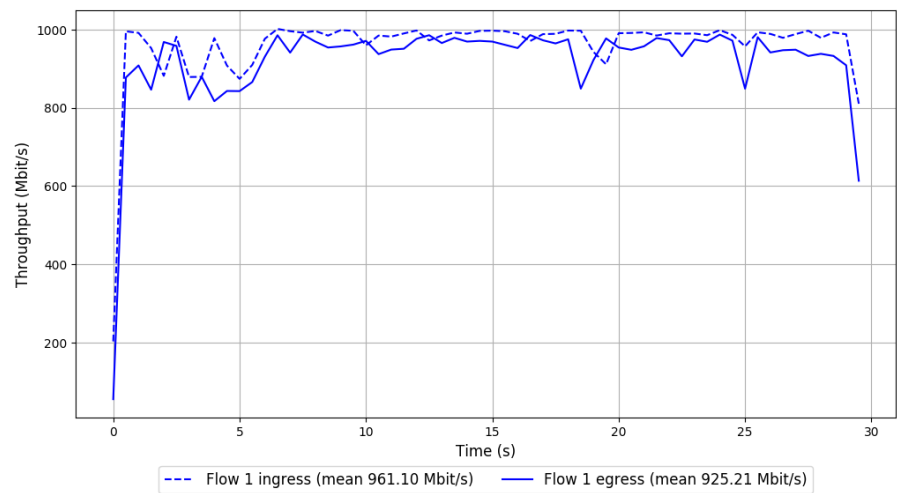
-- Flow 1:

Average throughput: 925.21 Mbit/s

95th percentile per-packet one-way delay: 162.816 ms

Loss rate: 4.14%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-16 15:25:45

End at: 2018-02-16 15:26:15

Below is generated by plot.py at 2018-02-16 20:43:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 707.84 Mbit/s

95th percentile per-packet one-way delay: 186.524 ms

Loss rate: 6.14%

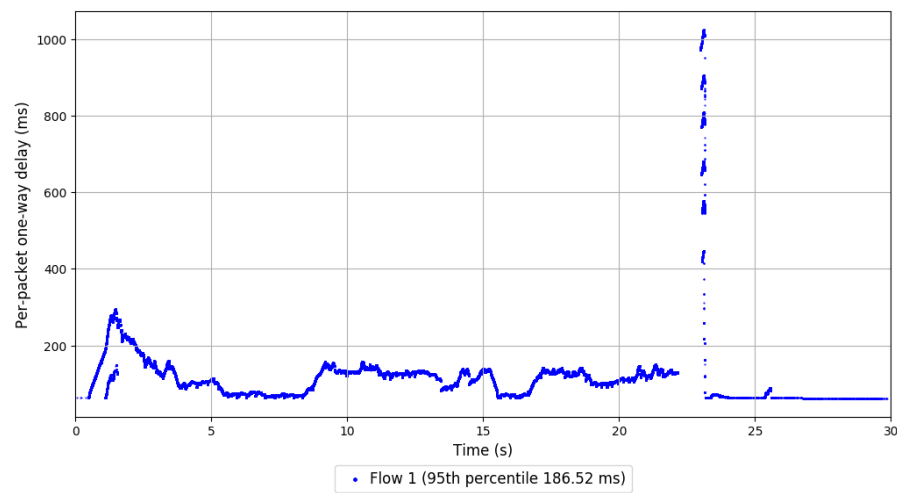
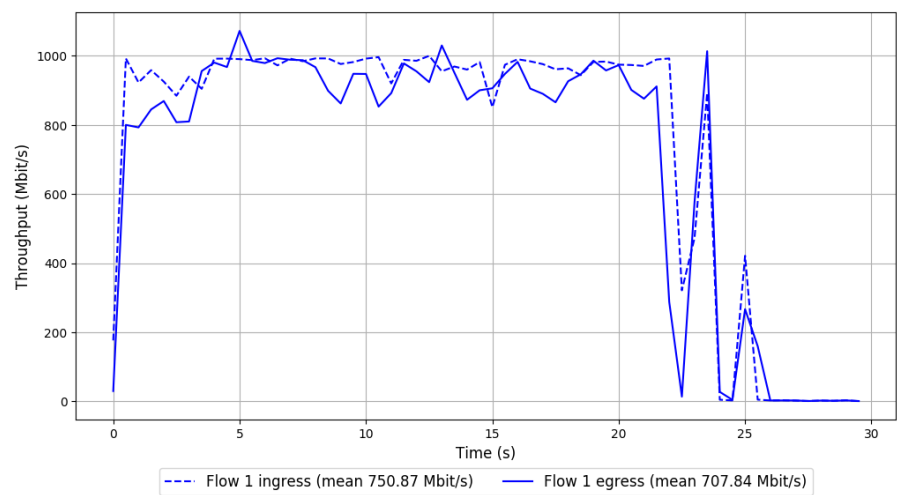
-- Flow 1:

Average throughput: 707.84 Mbit/s

95th percentile per-packet one-way delay: 186.524 ms

Loss rate: 6.14%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-16 15:40:18

End at: 2018-02-16 15:40:48

Below is generated by plot.py at 2018-02-16 20:43:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 874.82 Mbit/s

95th percentile per-packet one-way delay: 156.826 ms

Loss rate: 7.41%

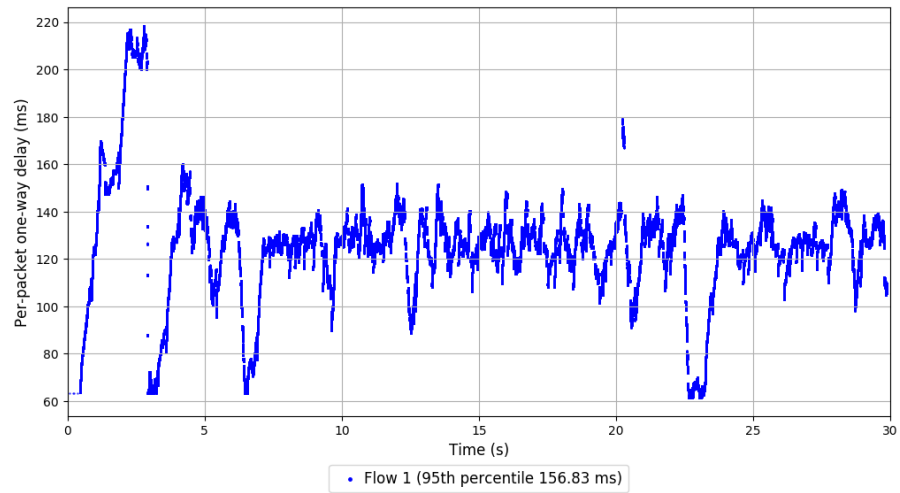
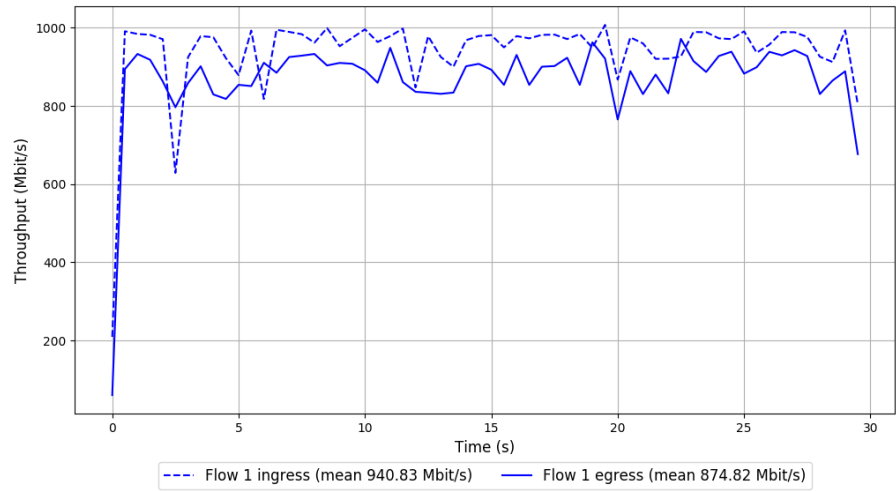
-- Flow 1:

Average throughput: 874.82 Mbit/s

95th percentile per-packet one-way delay: 156.826 ms

Loss rate: 7.41%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-16 15:55:08

End at: 2018-02-16 15:55:38

Below is generated by plot.py at 2018-02-16 20:43:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 861.85 Mbit/s

95th percentile per-packet one-way delay: 141.861 ms

Loss rate: 9.06%

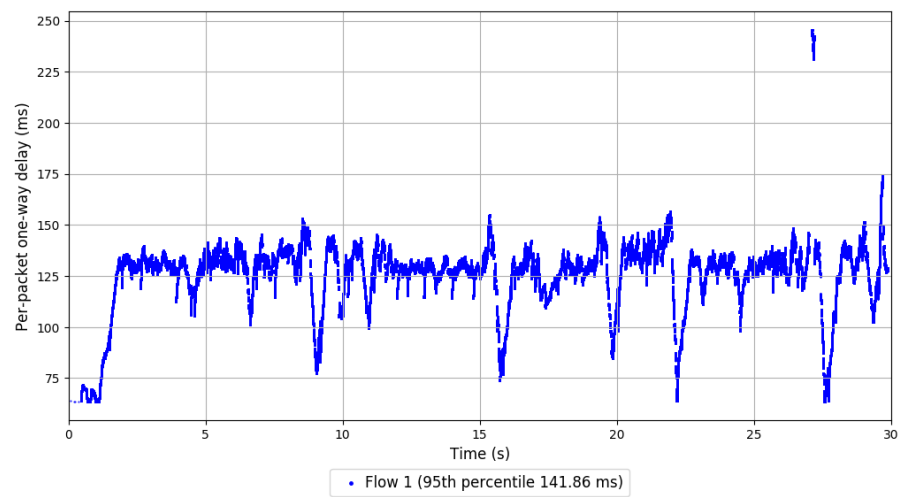
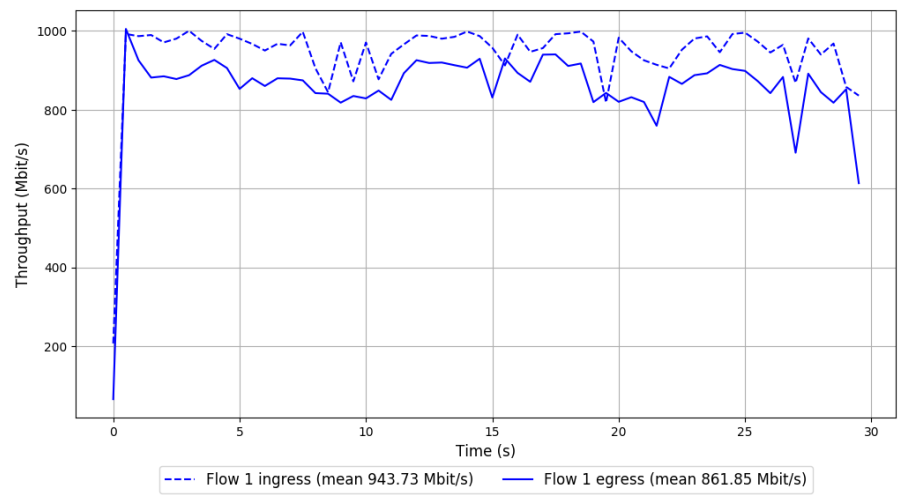
-- Flow 1:

Average throughput: 861.85 Mbit/s

95th percentile per-packet one-way delay: 141.861 ms

Loss rate: 9.06%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

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

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

Below is generated by plot.py at 2018-02-16 20:43:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 840.67 Mbit/s

95th percentile per-packet one-way delay: 306.801 ms

Loss rate: 9.87%

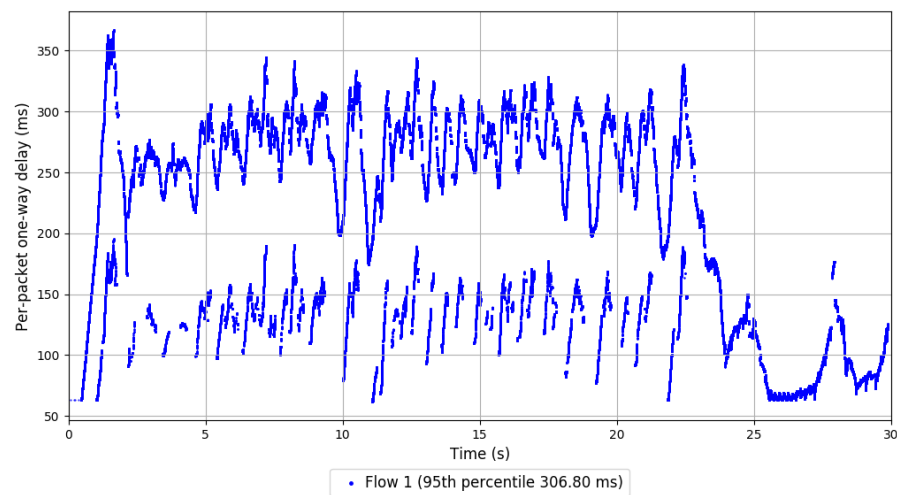
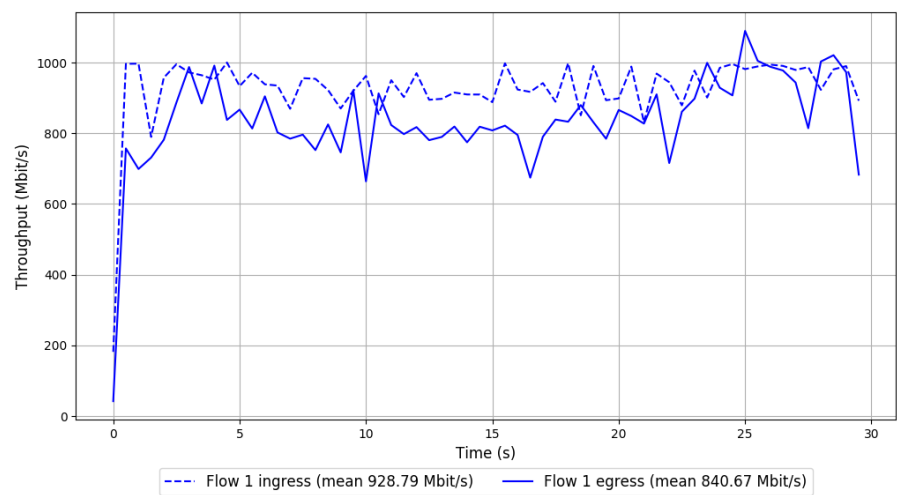
-- Flow 1:

Average throughput: 840.67 Mbit/s

95th percentile per-packet one-way delay: 306.801 ms

Loss rate: 9.87%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

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

End at: 2018-02-16 16:25:46

Below is generated by plot.py at 2018-02-16 20:45:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 946.24 Mbit/s

95th percentile per-packet one-way delay: 132.042 ms

Loss rate: 2.77%

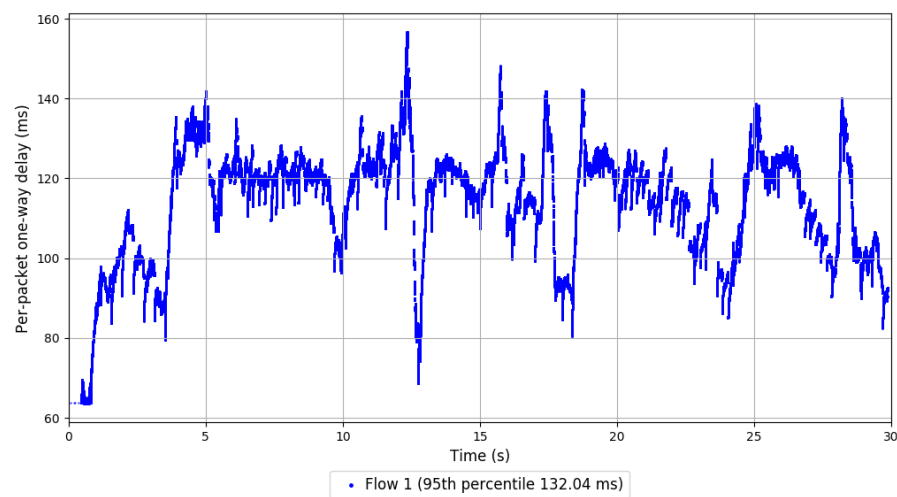
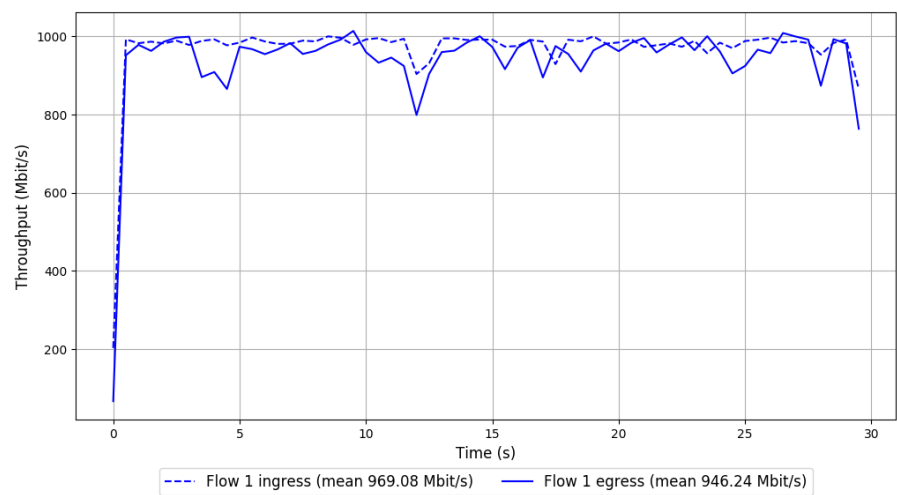
-- Flow 1:

Average throughput: 946.24 Mbit/s

95th percentile per-packet one-way delay: 132.042 ms

Loss rate: 2.77%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-16 16:40:09

End at: 2018-02-16 16:40:39

Below is generated by plot.py at 2018-02-16 20:58:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 927.69 Mbit/s

95th percentile per-packet one-way delay: 135.056 ms

Loss rate: 3.87%

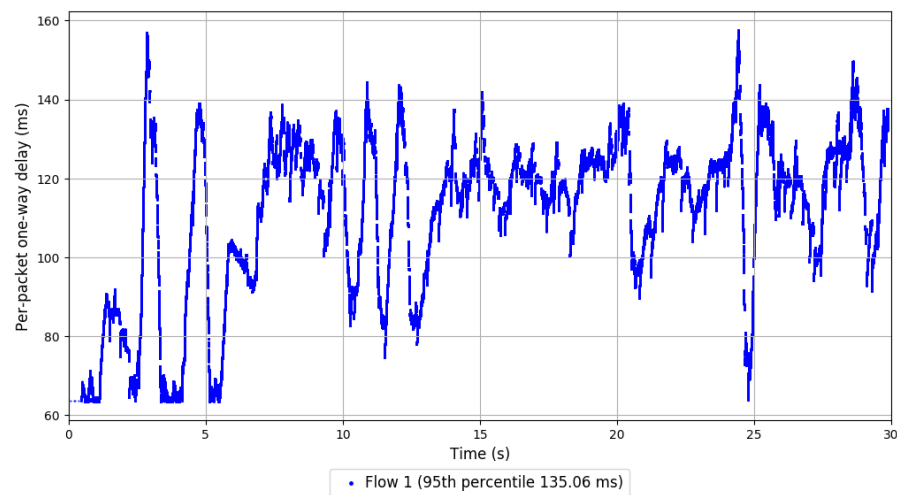
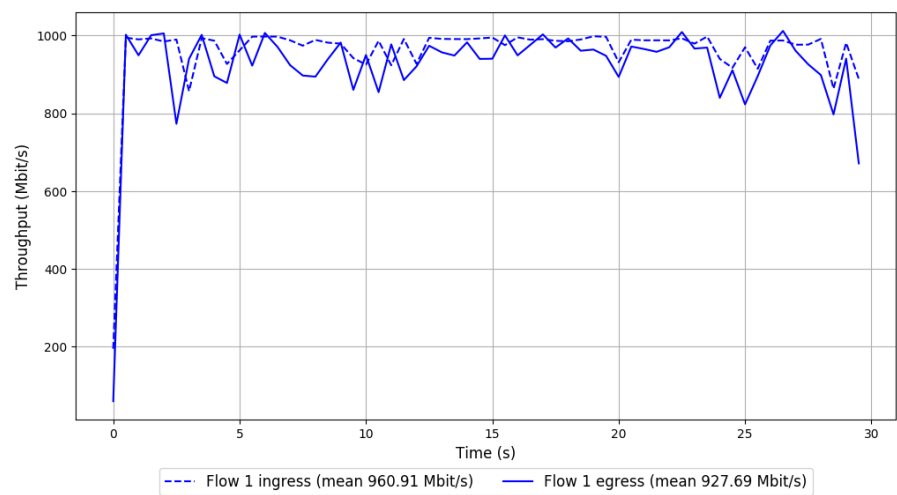
-- Flow 1:

Average throughput: 927.69 Mbit/s

95th percentile per-packet one-way delay: 135.056 ms

Loss rate: 3.87%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-16 16:55:09

End at: 2018-02-16 16:55:39

Below is generated by plot.py at 2018-02-16 20:59:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 908.06 Mbit/s

95th percentile per-packet one-way delay: 148.737 ms

Loss rate: 4.95%

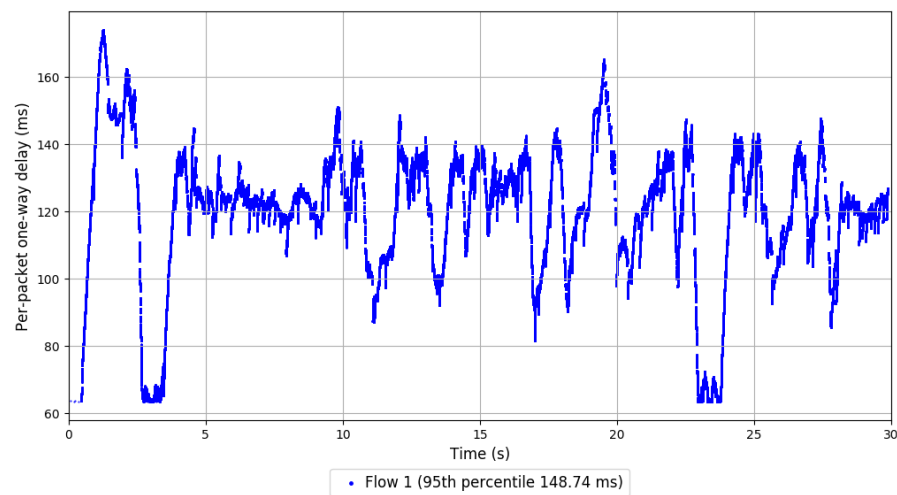
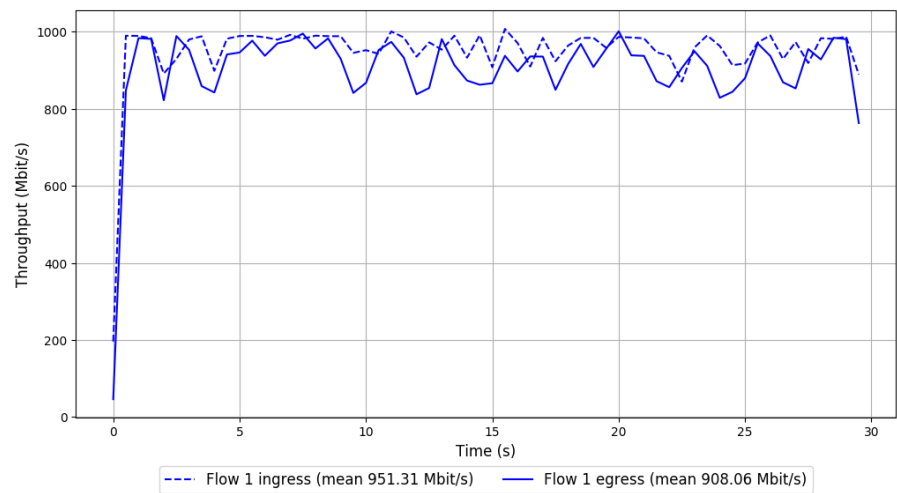
-- Flow 1:

Average throughput: 908.06 Mbit/s

95th percentile per-packet one-way delay: 148.737 ms

Loss rate: 4.95%

Run 10: Report of FillP — Data Link

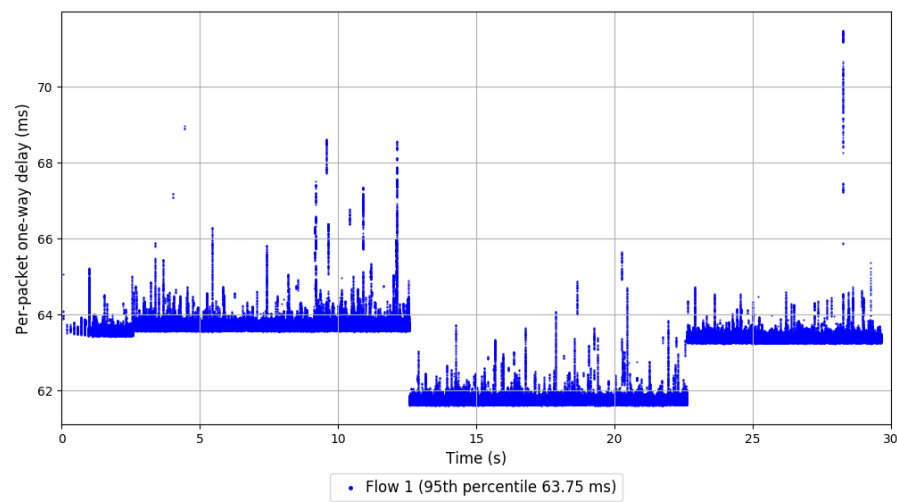
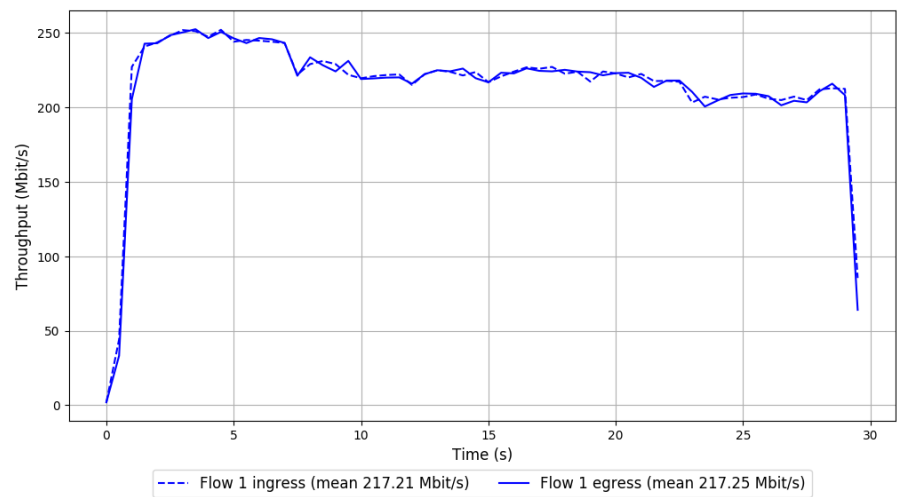


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-16 14:46:49
End at: 2018-02-16 14:47:19

# Below is generated by plot.py at 2018-02-16 20:59:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 217.25 Mbit/s
95th percentile per-packet one-way delay: 63.753 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 217.25 Mbit/s
95th percentile per-packet one-way delay: 63.753 ms
Loss rate: 0.41%
```

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-02-16 15:01:56

End at: 2018-02-16 15:02:26

Below is generated by plot.py at 2018-02-16 20:59:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.21 Mbit/s

95th percentile per-packet one-way delay: 63.467 ms

Loss rate: 0.47%

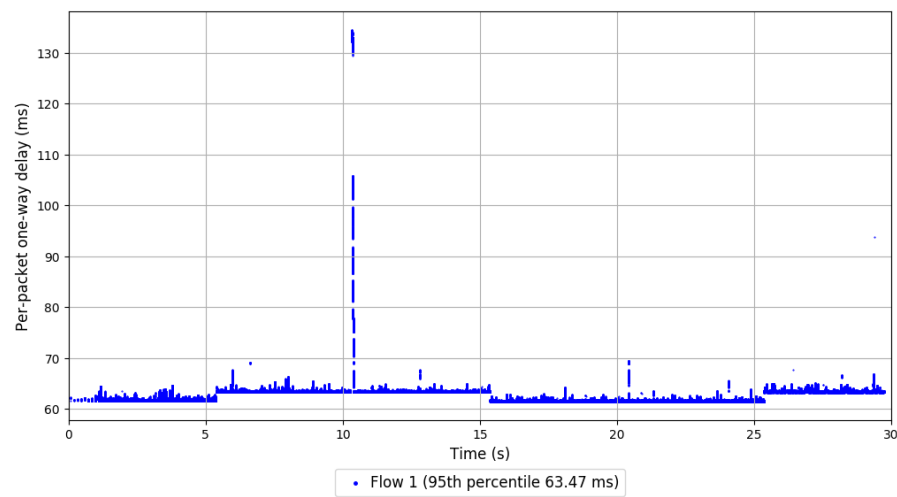
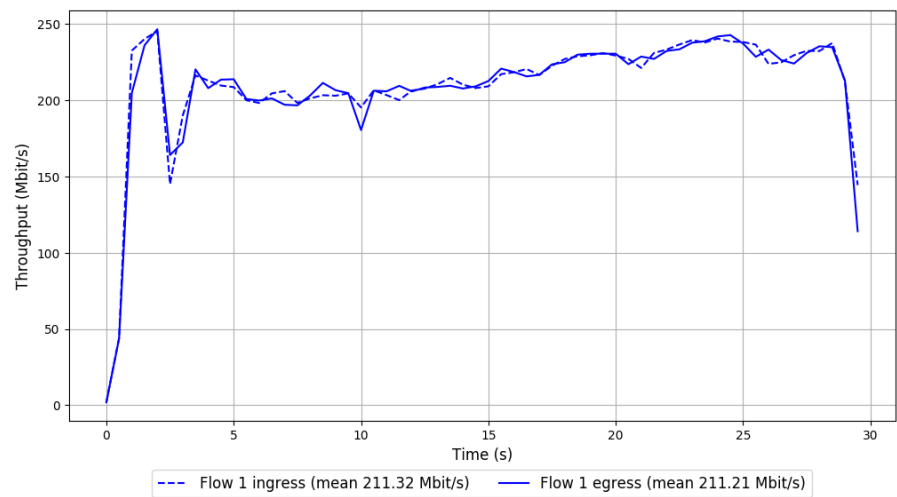
-- Flow 1:

Average throughput: 211.21 Mbit/s

95th percentile per-packet one-way delay: 63.467 ms

Loss rate: 0.47%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-16 15:17:01

End at: 2018-02-16 15:17:31

Below is generated by plot.py at 2018-02-16 20:59:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.21 Mbit/s

95th percentile per-packet one-way delay: 63.766 ms

Loss rate: 0.45%

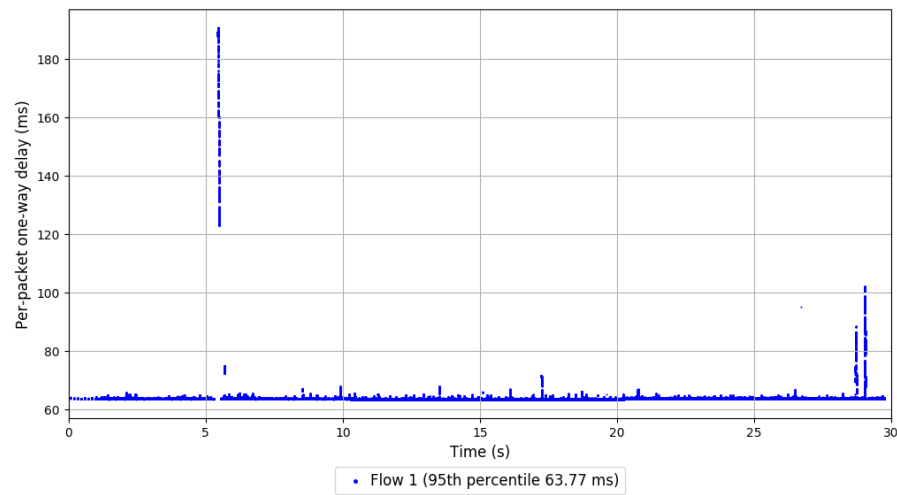
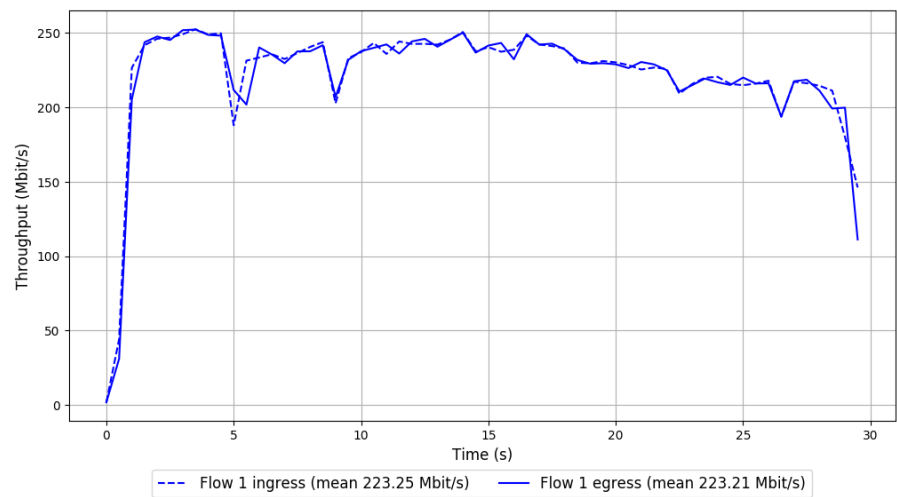
-- Flow 1:

Average throughput: 223.21 Mbit/s

95th percentile per-packet one-way delay: 63.766 ms

Loss rate: 0.45%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-16 15:31:49

End at: 2018-02-16 15:32:19

Below is generated by plot.py at 2018-02-16 20:59:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.41 Mbit/s

95th percentile per-packet one-way delay: 64.127 ms

Loss rate: 0.38%

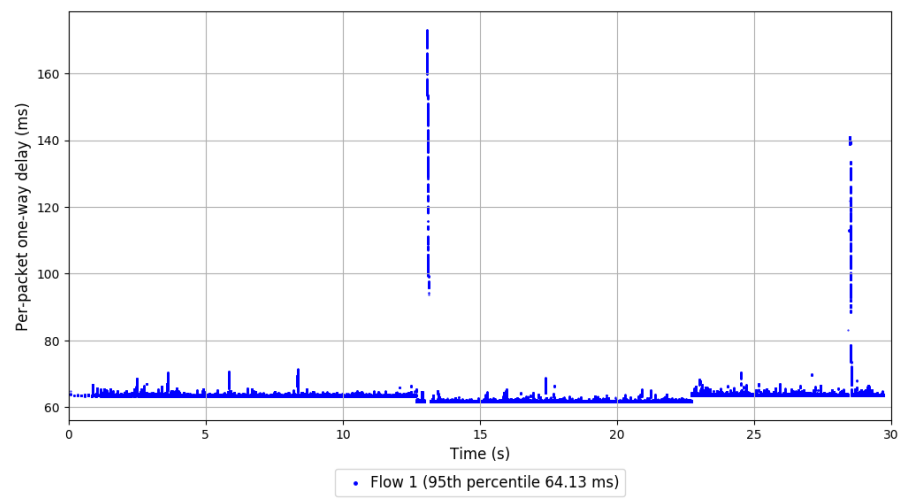
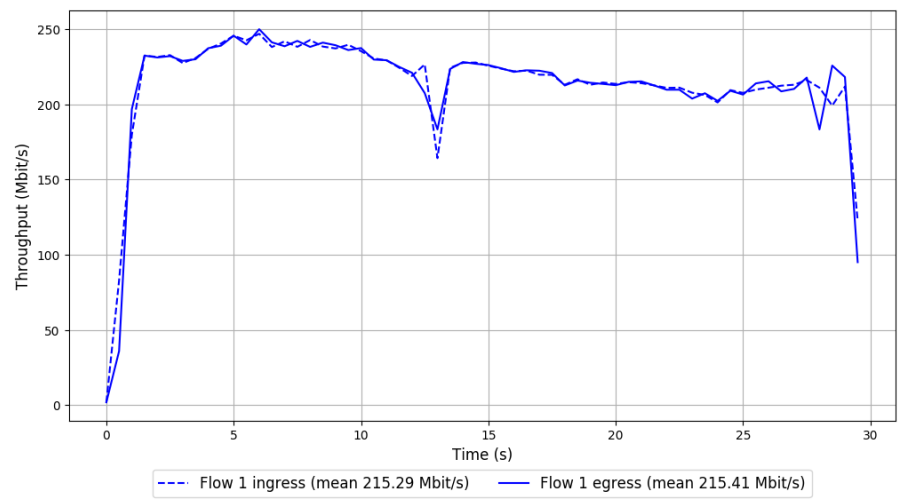
-- Flow 1:

Average throughput: 215.41 Mbit/s

95th percentile per-packet one-way delay: 64.127 ms

Loss rate: 0.38%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-16 15:46:30

End at: 2018-02-16 15:47:00

Below is generated by plot.py at 2018-02-16 20:59:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.24 Mbit/s

95th percentile per-packet one-way delay: 64.130 ms

Loss rate: 0.44%

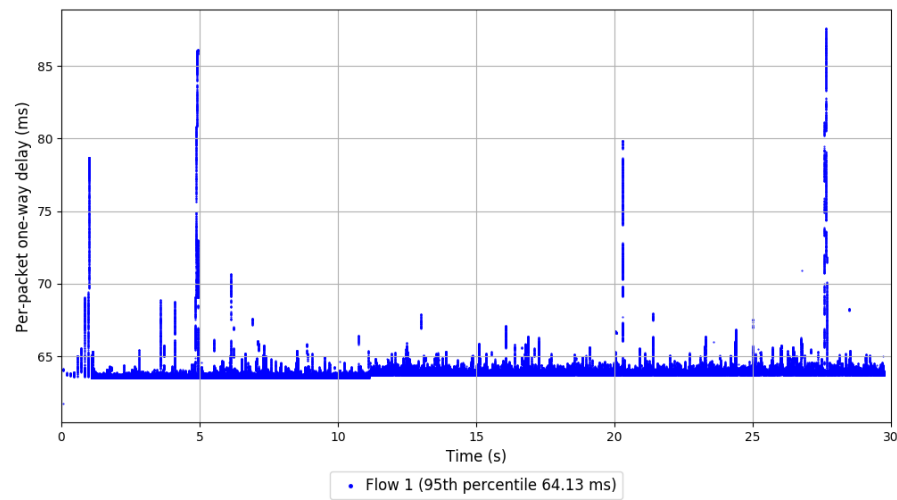
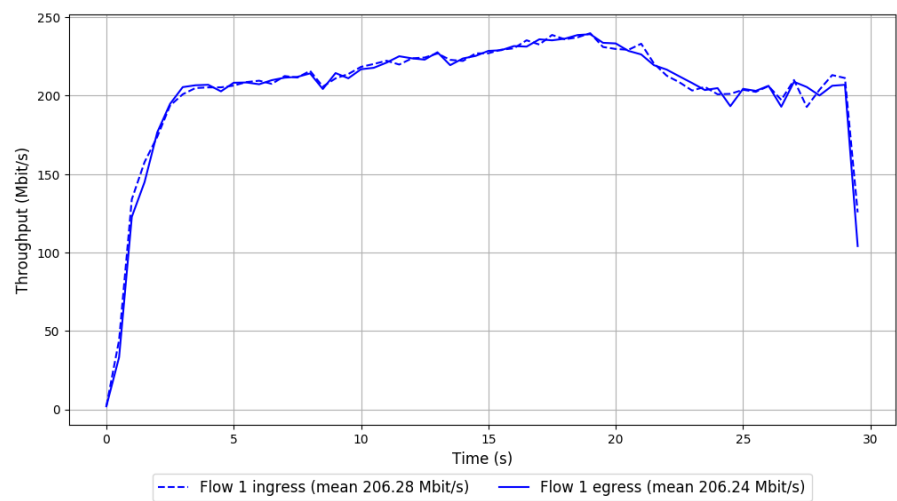
-- Flow 1:

Average throughput: 206.24 Mbit/s

95th percentile per-packet one-way delay: 64.130 ms

Loss rate: 0.44%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-16 16:01:19

End at: 2018-02-16 16:01:49

Below is generated by plot.py at 2018-02-16 20:59:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.96 Mbit/s

95th percentile per-packet one-way delay: 64.010 ms

Loss rate: 0.48%

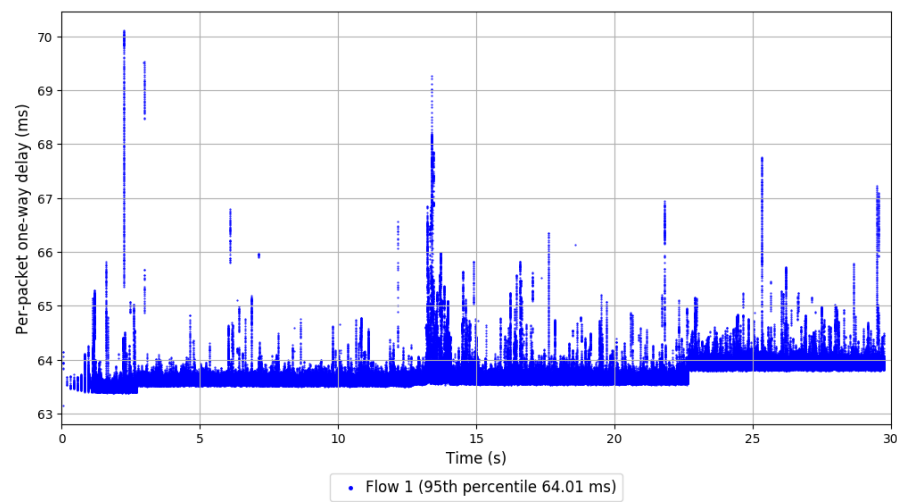
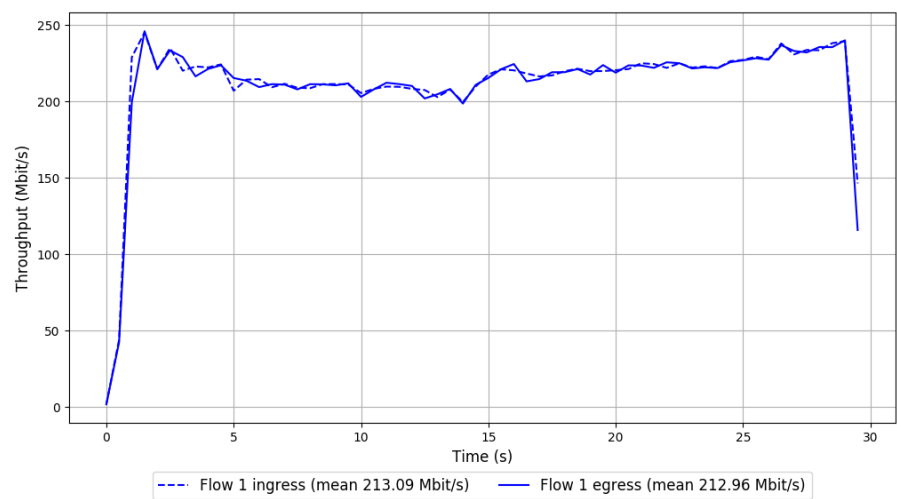
-- Flow 1:

Average throughput: 212.96 Mbit/s

95th percentile per-packet one-way delay: 64.010 ms

Loss rate: 0.48%

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



Run 7: Statistics of Indigo-1-32

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

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

Below is generated by plot.py at 2018-02-16 20:59:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.82 Mbit/s

95th percentile per-packet one-way delay: 64.022 ms

Loss rate: 0.45%

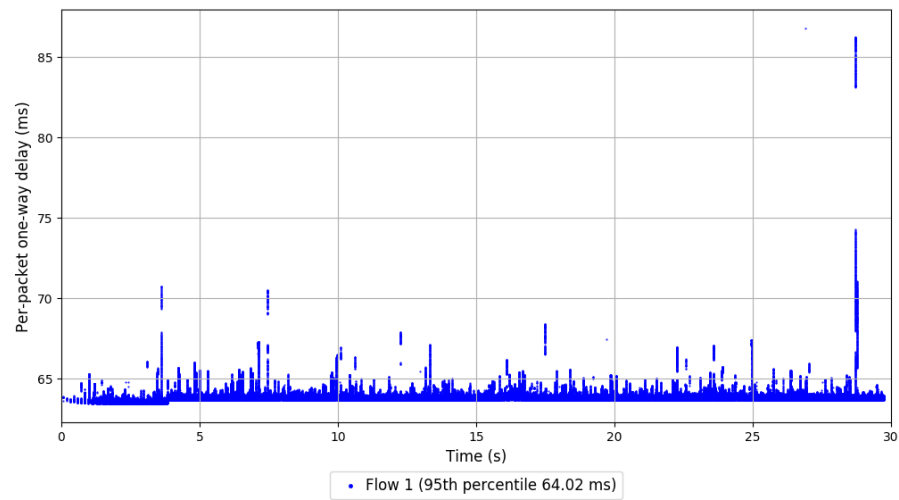
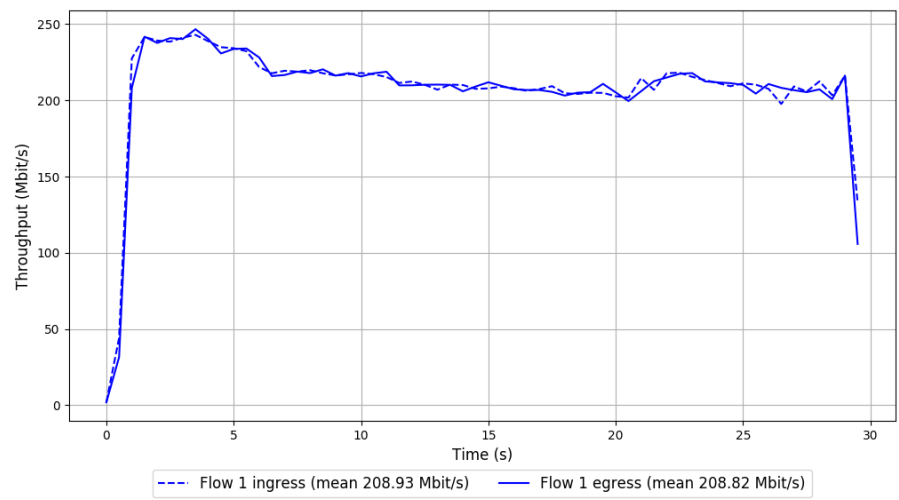
-- Flow 1:

Average throughput: 208.82 Mbit/s

95th percentile per-packet one-way delay: 64.022 ms

Loss rate: 0.45%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-16 16:31:24

End at: 2018-02-16 16:31:54

Below is generated by plot.py at 2018-02-16 20:59:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.11 Mbit/s

95th percentile per-packet one-way delay: 63.912 ms

Loss rate: 0.40%

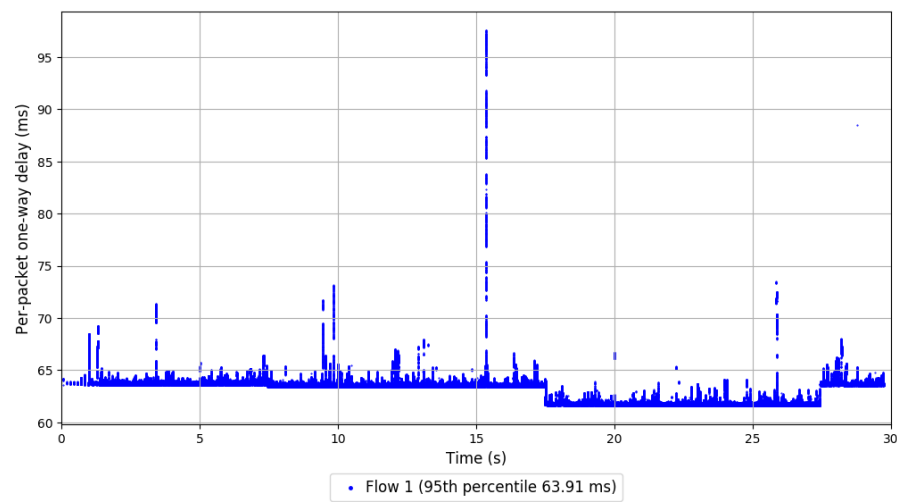
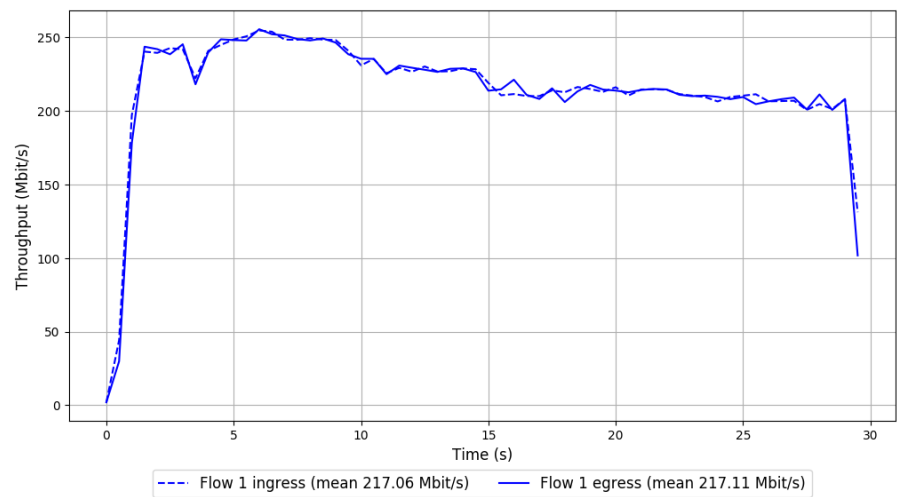
-- Flow 1:

Average throughput: 217.11 Mbit/s

95th percentile per-packet one-way delay: 63.912 ms

Loss rate: 0.40%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-16 16:46:19

End at: 2018-02-16 16:46:49

Below is generated by plot.py at 2018-02-16 20:59:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.20 Mbit/s

95th percentile per-packet one-way delay: 63.730 ms

Loss rate: 0.43%

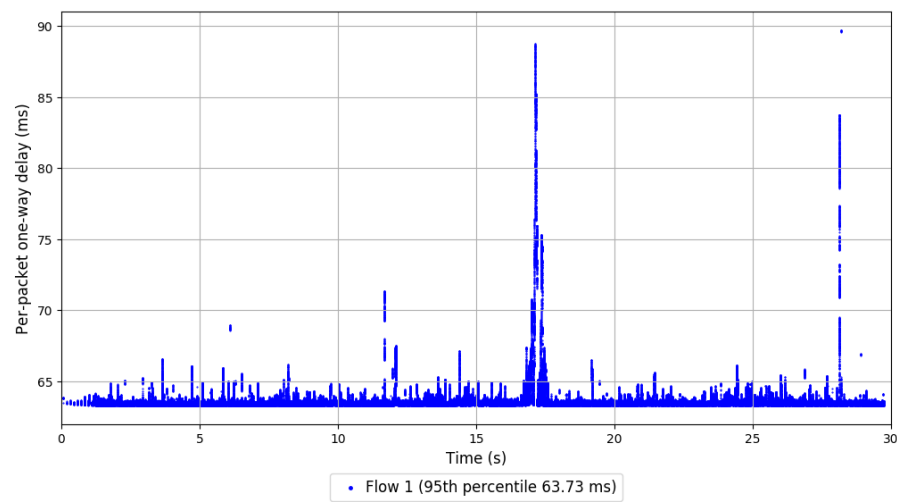
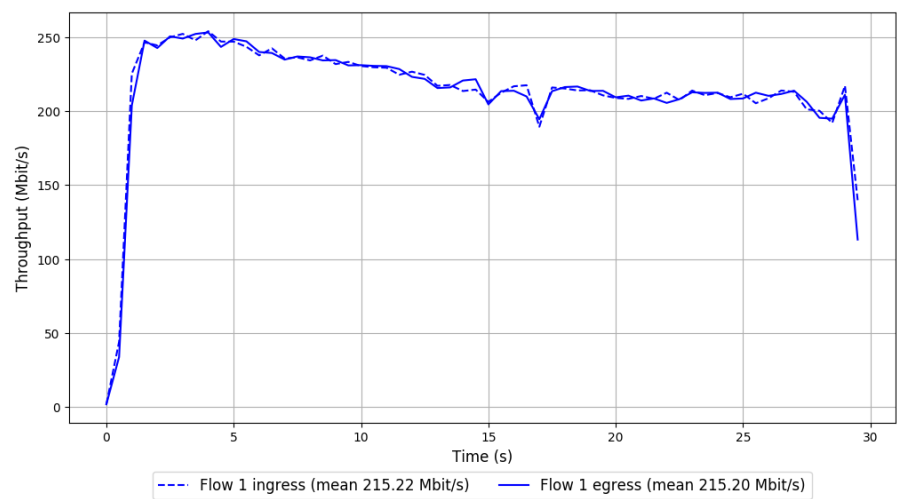
-- Flow 1:

Average throughput: 215.20 Mbit/s

95th percentile per-packet one-way delay: 63.730 ms

Loss rate: 0.43%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-16 17:01:19

End at: 2018-02-16 17:01:49

Below is generated by plot.py at 2018-02-16 20:59:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.97 Mbit/s

95th percentile per-packet one-way delay: 63.929 ms

Loss rate: 0.46%

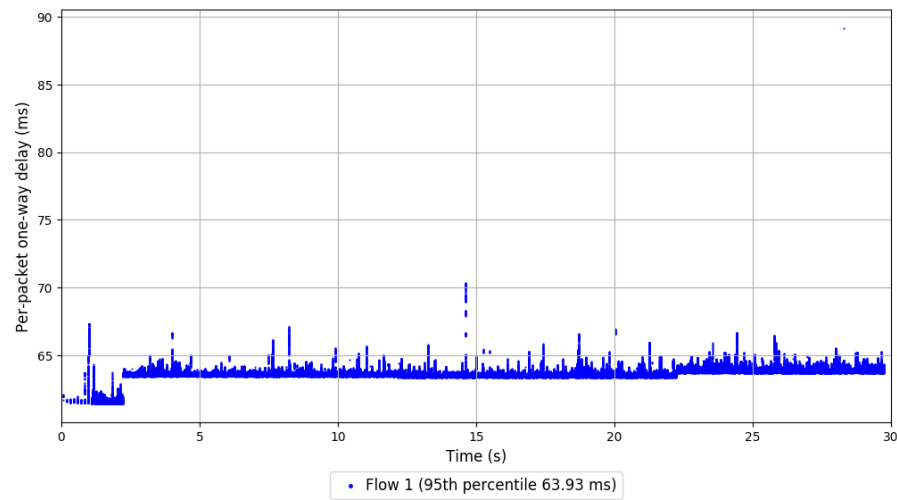
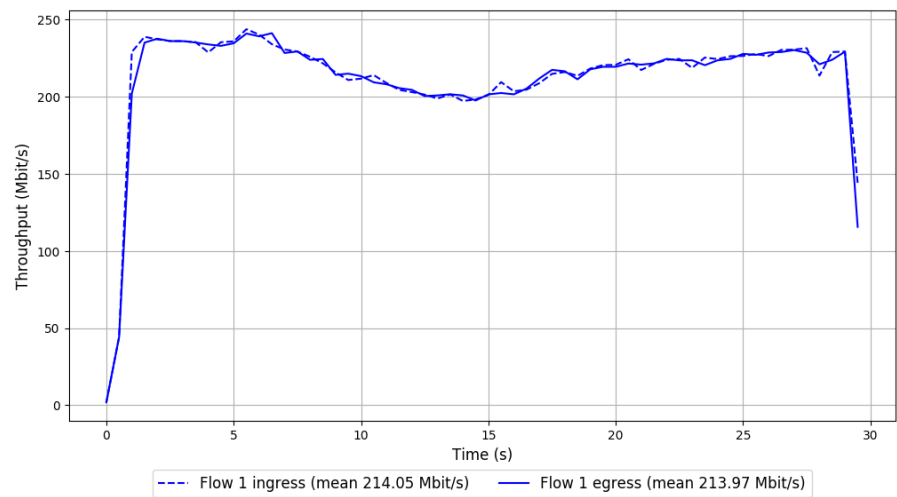
-- Flow 1:

Average throughput: 213.97 Mbit/s

95th percentile per-packet one-way delay: 63.929 ms

Loss rate: 0.46%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-02-16 14:43:38

End at: 2018-02-16 14:44:08

Below is generated by plot.py at 2018-02-16 20:59:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 277.35 Mbit/s

95th percentile per-packet one-way delay: 63.738 ms

Loss rate: 1.51%

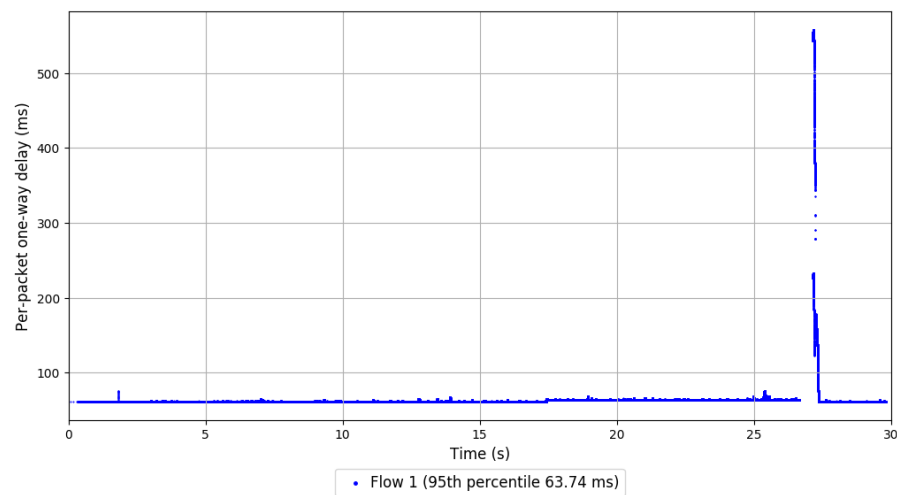
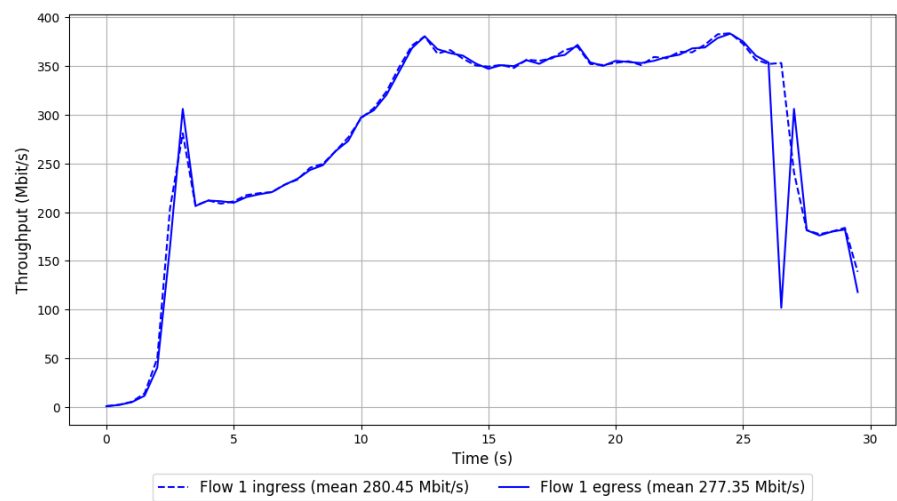
-- Flow 1:

Average throughput: 277.35 Mbit/s

95th percentile per-packet one-way delay: 63.738 ms

Loss rate: 1.51%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-16 14:58:34

End at: 2018-02-16 14:59:04

Below is generated by plot.py at 2018-02-16 20:59:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 384.14 Mbit/s

95th percentile per-packet one-way delay: 64.383 ms

Loss rate: 0.46%

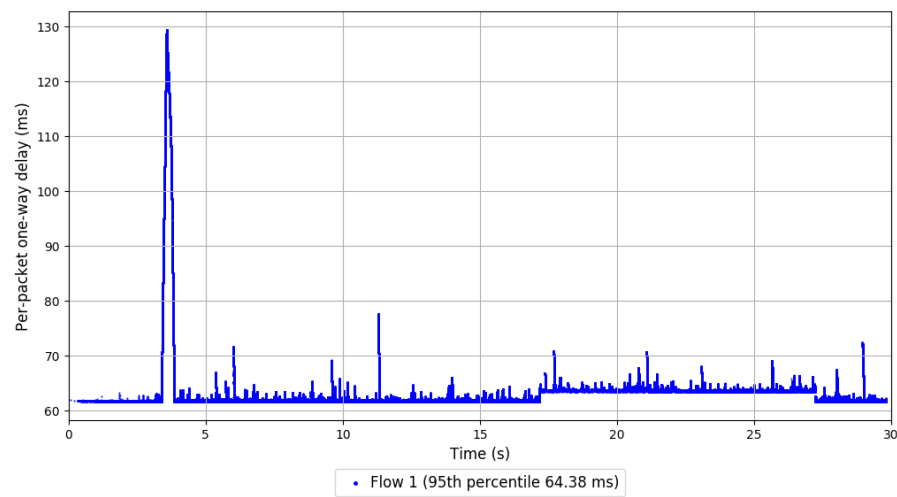
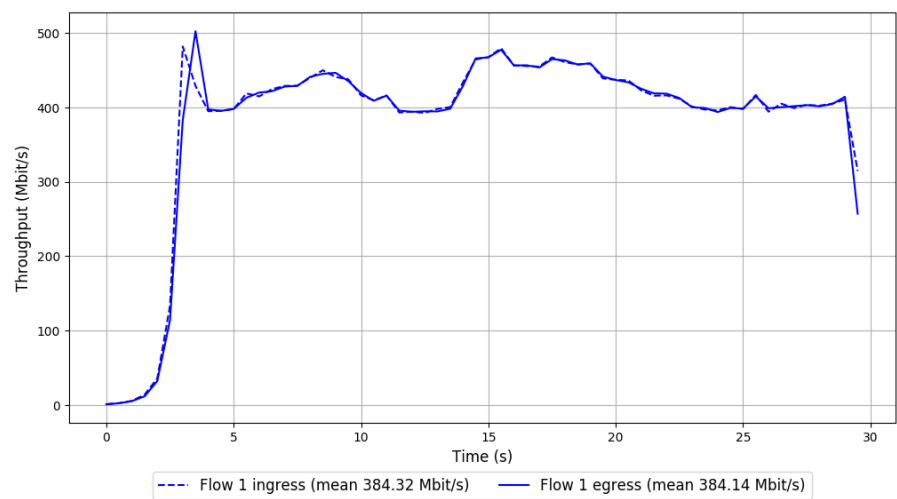
-- Flow 1:

Average throughput: 384.14 Mbit/s

95th percentile per-packet one-way delay: 64.383 ms

Loss rate: 0.46%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-16 15:13:41

End at: 2018-02-16 15:14:11

Below is generated by plot.py at 2018-02-16 20:59:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 407.38 Mbit/s

95th percentile per-packet one-way delay: 73.561 ms

Loss rate: 0.47%

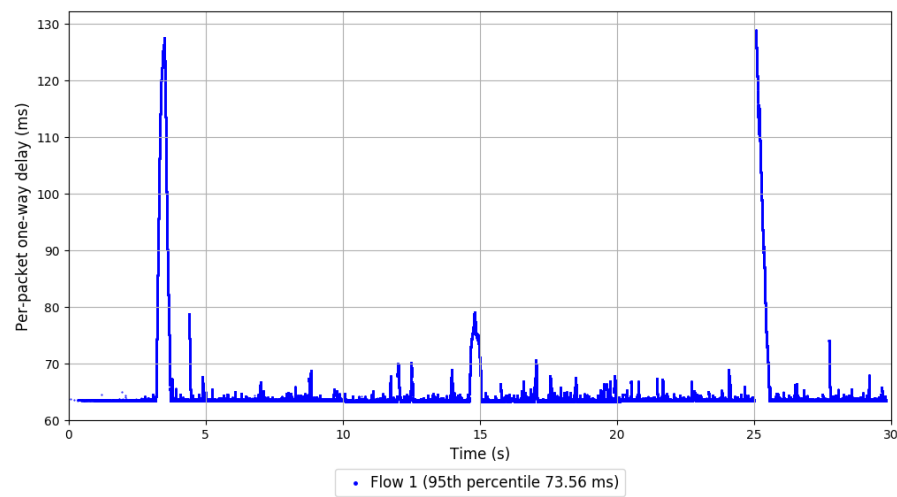
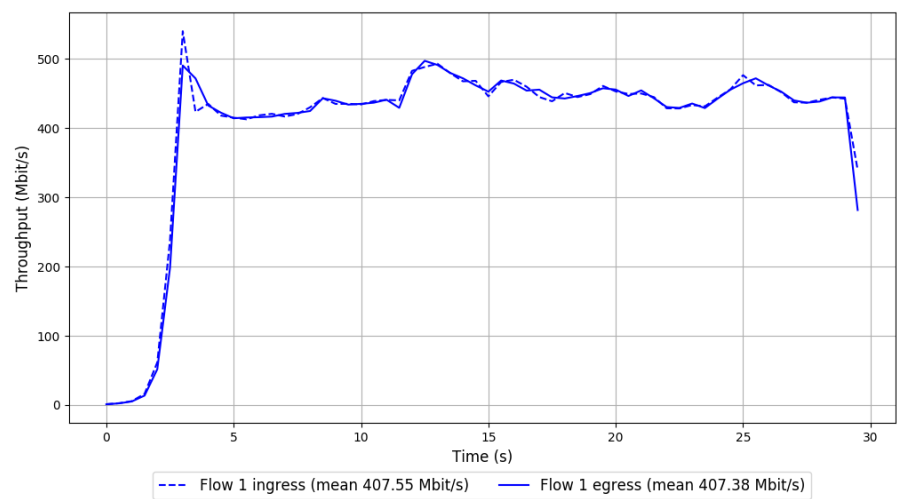
-- Flow 1:

Average throughput: 407.38 Mbit/s

95th percentile per-packet one-way delay: 73.561 ms

Loss rate: 0.47%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-16 15:28:31

End at: 2018-02-16 15:29:01

Below is generated by plot.py at 2018-02-16 20:59:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 356.57 Mbit/s

95th percentile per-packet one-way delay: 76.353 ms

Loss rate: 0.53%

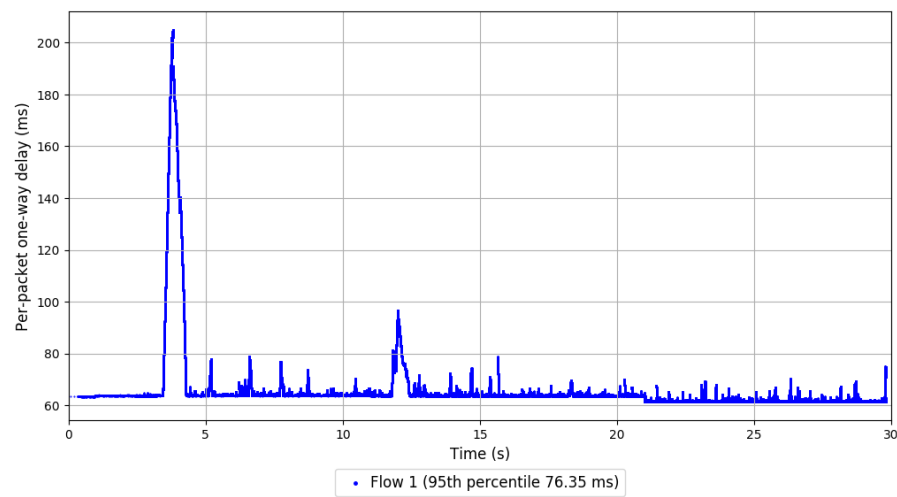
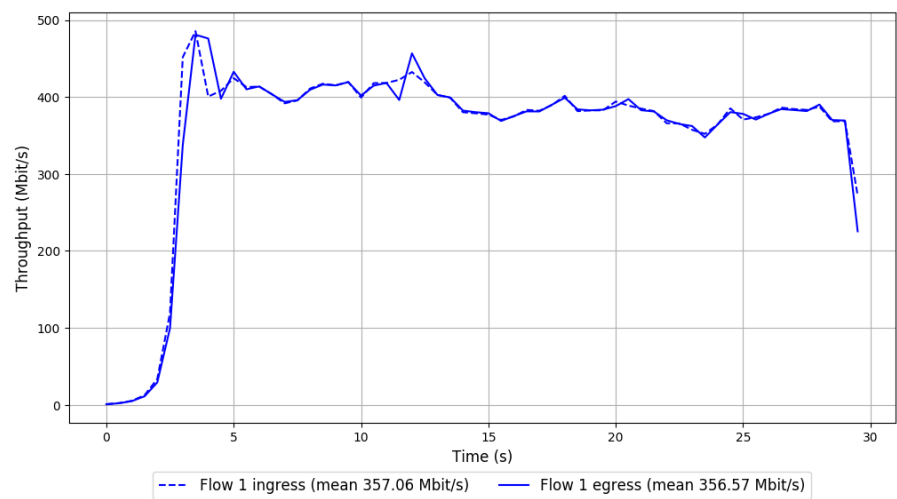
-- Flow 1:

Average throughput: 356.57 Mbit/s

95th percentile per-packet one-way delay: 76.353 ms

Loss rate: 0.53%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-16 15:43:12

End at: 2018-02-16 15:43:42

Below is generated by plot.py at 2018-02-16 20:59:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 366.69 Mbit/s

95th percentile per-packet one-way delay: 80.033 ms

Loss rate: 0.45%

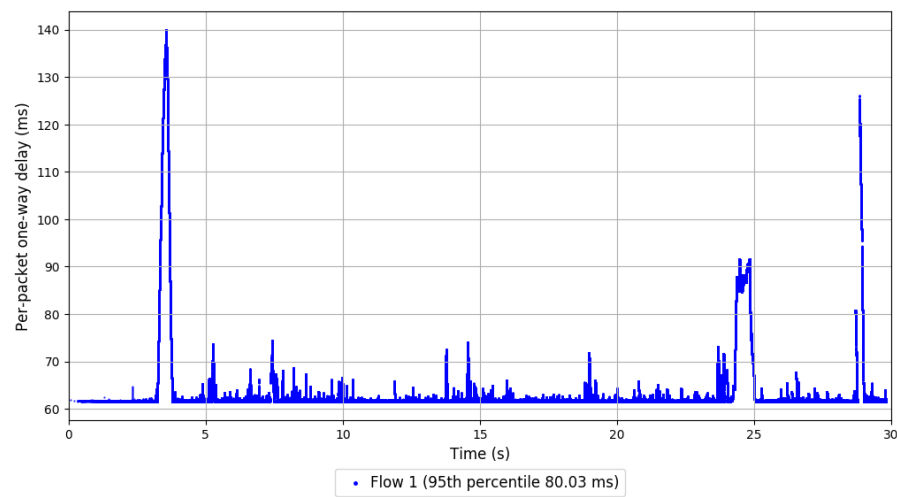
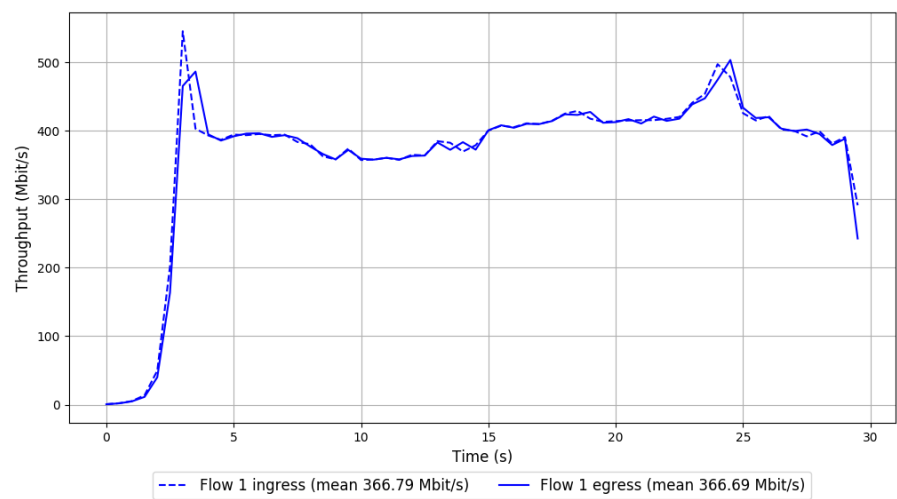
-- Flow 1:

Average throughput: 366.69 Mbit/s

95th percentile per-packet one-way delay: 80.033 ms

Loss rate: 0.45%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-16 15:58:01

End at: 2018-02-16 15:58:31

Below is generated by plot.py at 2018-02-16 20:59:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 361.67 Mbit/s

95th percentile per-packet one-way delay: 71.001 ms

Loss rate: 0.55%

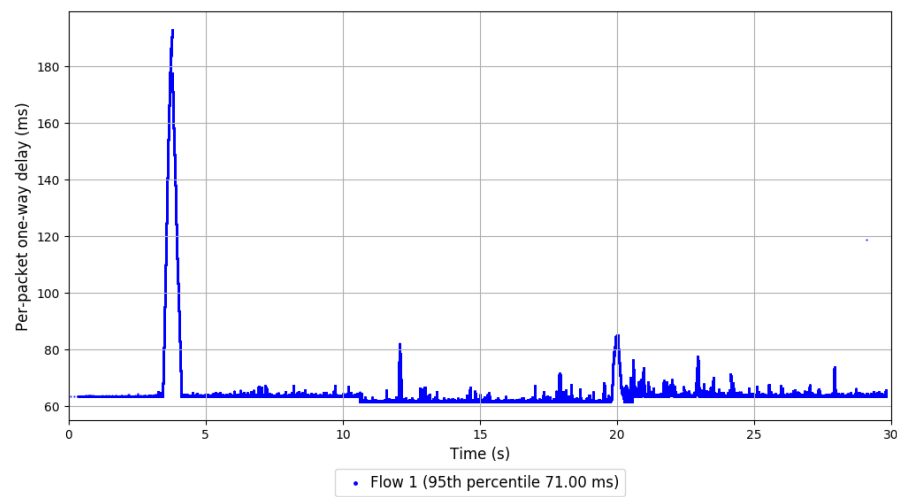
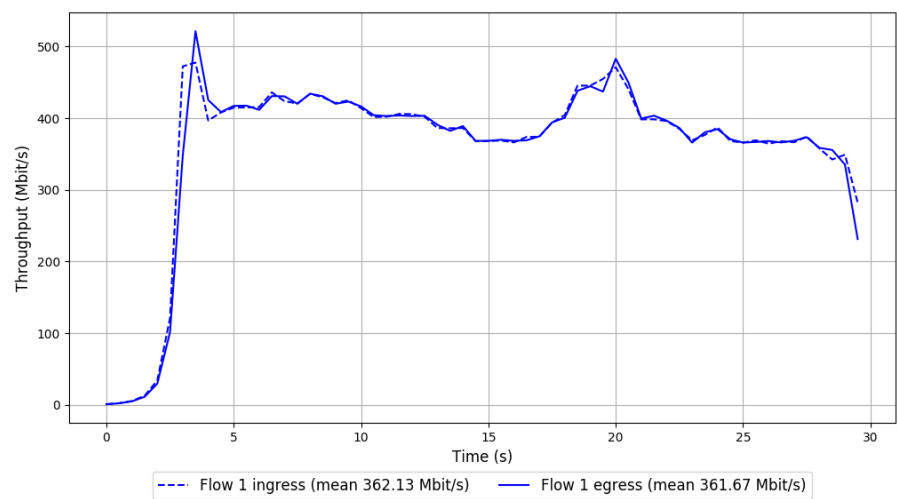
-- Flow 1:

Average throughput: 361.67 Mbit/s

95th percentile per-packet one-way delay: 71.001 ms

Loss rate: 0.55%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-16 16:12:59

End at: 2018-02-16 16:13:29

Below is generated by plot.py at 2018-02-16 20:59:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 369.04 Mbit/s

95th percentile per-packet one-way delay: 70.773 ms

Loss rate: 0.55%

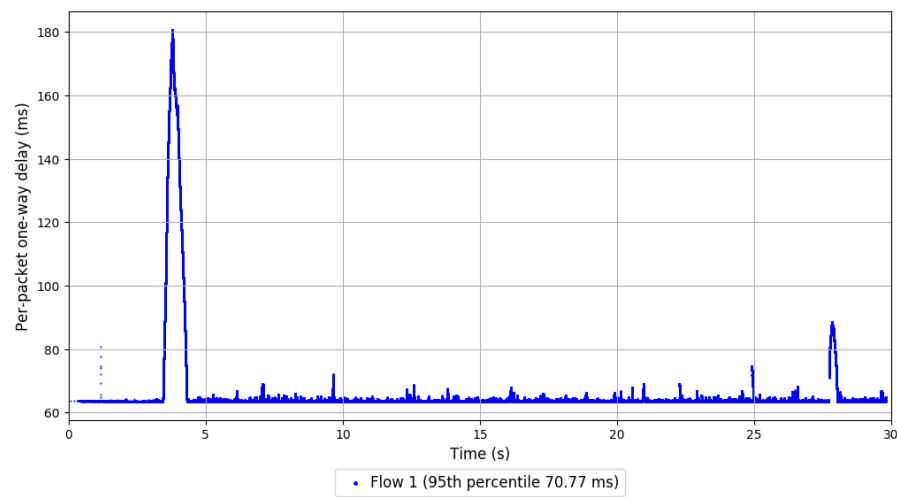
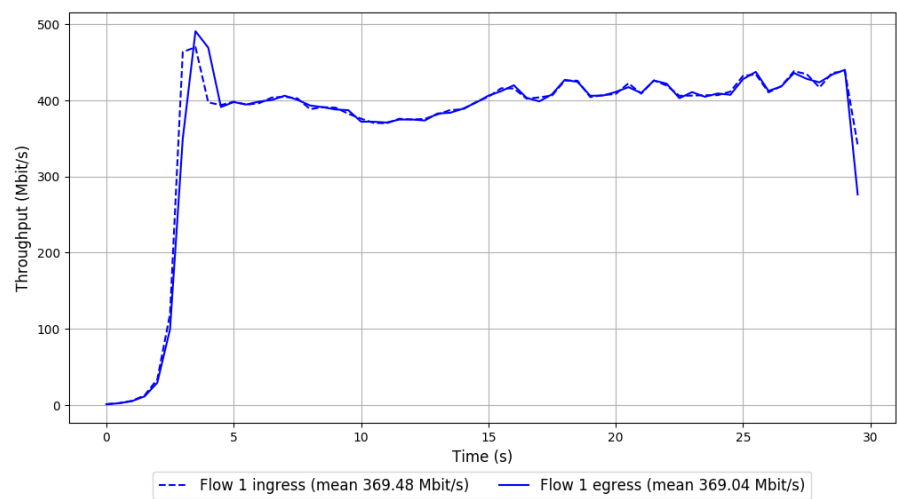
-- Flow 1:

Average throughput: 369.04 Mbit/s

95th percentile per-packet one-way delay: 70.773 ms

Loss rate: 0.55%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-16 16:28:07

End at: 2018-02-16 16:28:37

Below is generated by plot.py at 2018-02-16 21:03:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 336.52 Mbit/s

95th percentile per-packet one-way delay: 78.318 ms

Loss rate: 0.59%

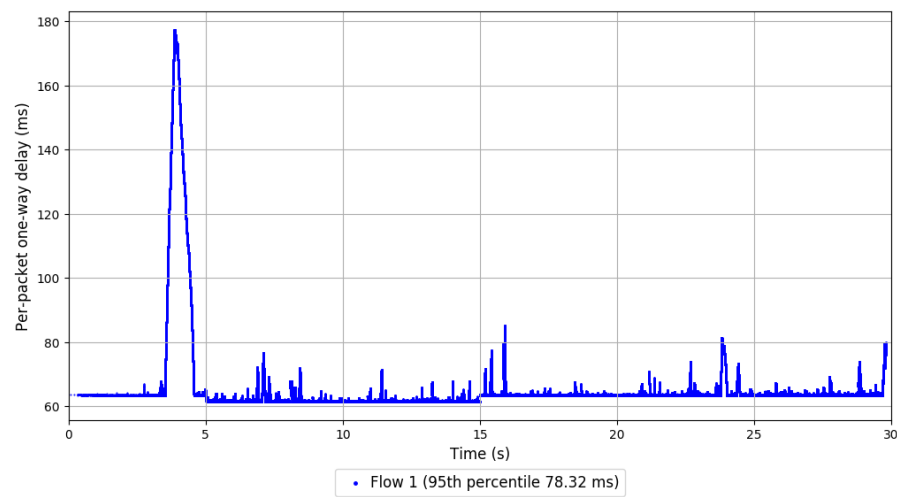
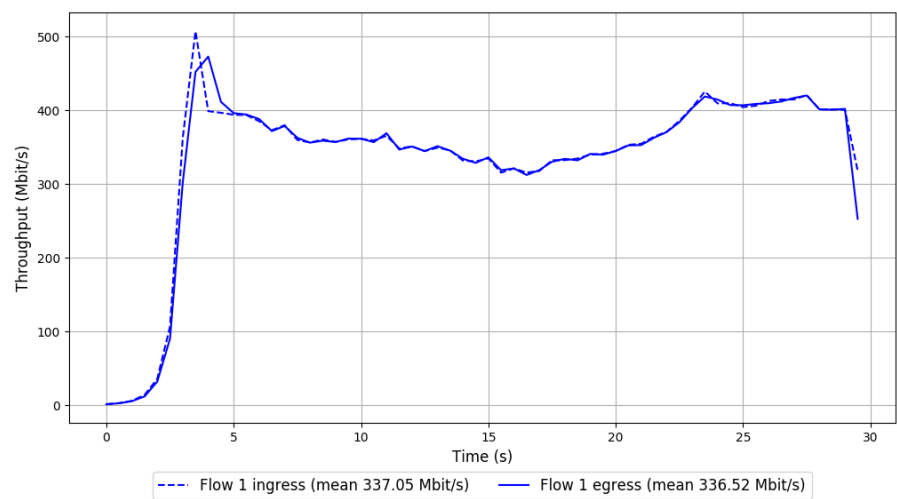
-- Flow 1:

Average throughput: 336.52 Mbit/s

95th percentile per-packet one-way delay: 78.318 ms

Loss rate: 0.59%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

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

End at: 2018-02-16 16:43:32

Below is generated by plot.py at 2018-02-16 21:04:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 357.63 Mbit/s

95th percentile per-packet one-way delay: 64.288 ms

Loss rate: 0.48%

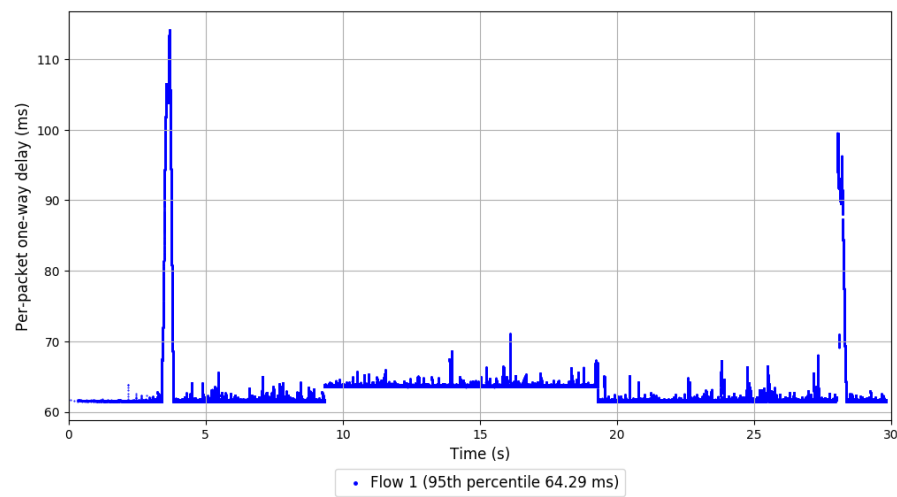
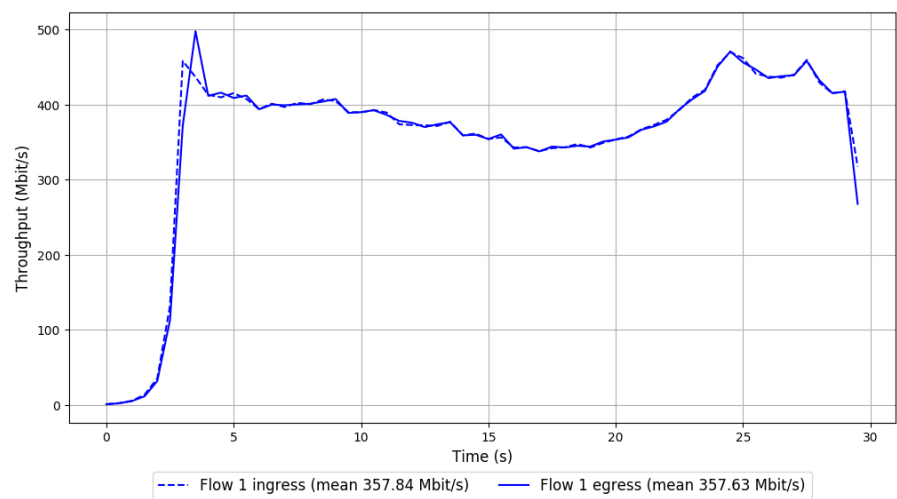
-- Flow 1:

Average throughput: 357.63 Mbit/s

95th percentile per-packet one-way delay: 64.288 ms

Loss rate: 0.48%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

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

End at: 2018-02-16 16:58:33

Below is generated by plot.py at 2018-02-16 21:04:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 353.92 Mbit/s

95th percentile per-packet one-way delay: 62.631 ms

Loss rate: 0.59%

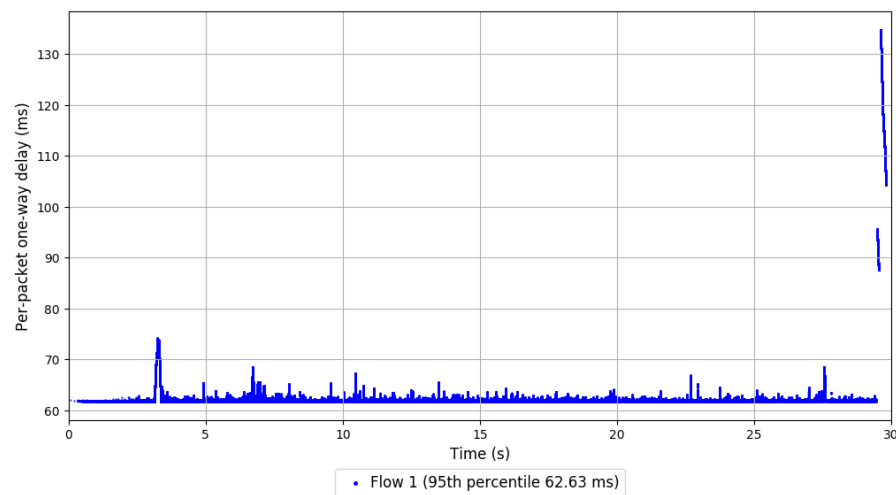
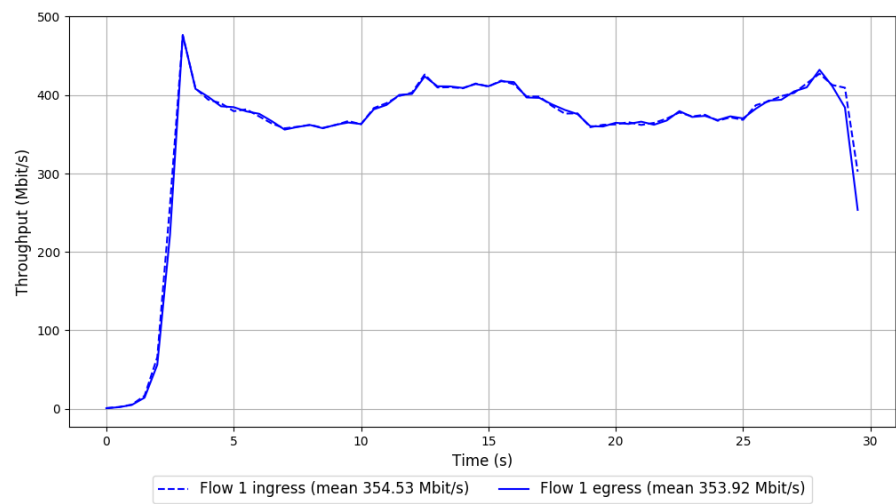
-- Flow 1:

Average throughput: 353.92 Mbit/s

95th percentile per-packet one-way delay: 62.631 ms

Loss rate: 0.59%

Run 10: Report of Vivace-latency — Data Link

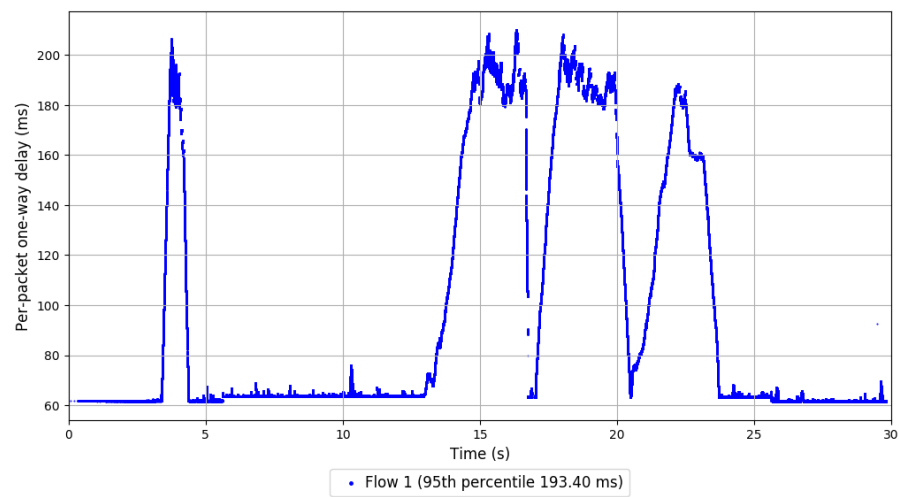
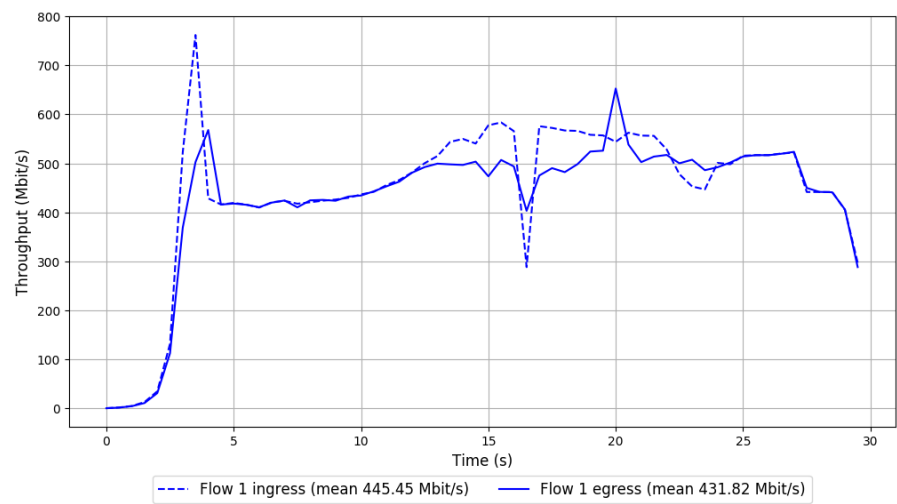


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-16 14:50:26
End at: 2018-02-16 14:50:56

# Below is generated by plot.py at 2018-02-16 21:06:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 431.82 Mbit/s
95th percentile per-packet one-way delay: 193.400 ms
Loss rate: 3.46%
-- Flow 1:
Average throughput: 431.82 Mbit/s
95th percentile per-packet one-way delay: 193.400 ms
Loss rate: 3.46%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-16 15:05:31

End at: 2018-02-16 15:06:01

Below is generated by plot.py at 2018-02-16 21:06:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 447.29 Mbit/s

95th percentile per-packet one-way delay: 190.600 ms

Loss rate: 3.46%

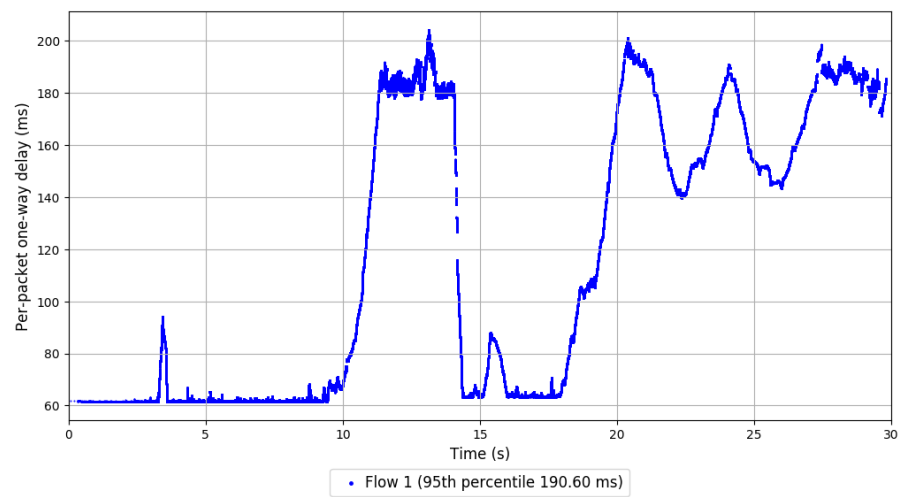
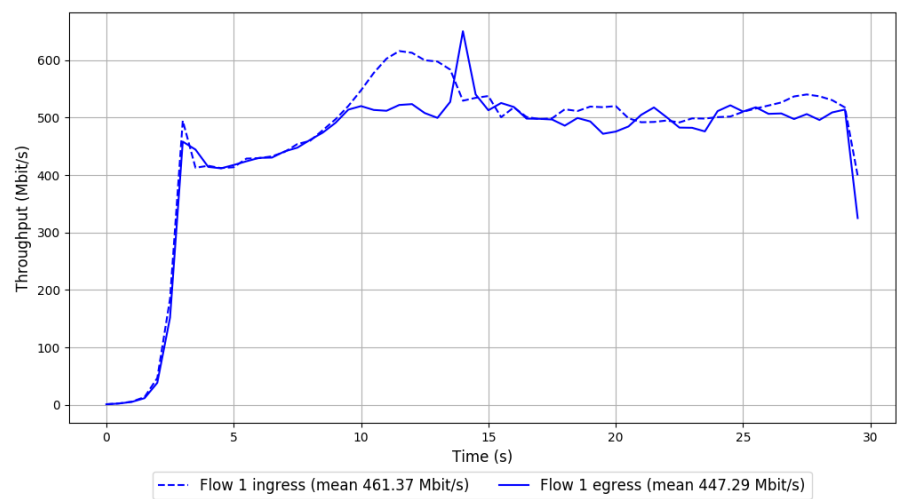
-- Flow 1:

Average throughput: 447.29 Mbit/s

95th percentile per-packet one-way delay: 190.600 ms

Loss rate: 3.46%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-16 15:20:41

End at: 2018-02-16 15:21:11

Below is generated by plot.py at 2018-02-16 21:06:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 438.08 Mbit/s

95th percentile per-packet one-way delay: 190.556 ms

Loss rate: 1.95%

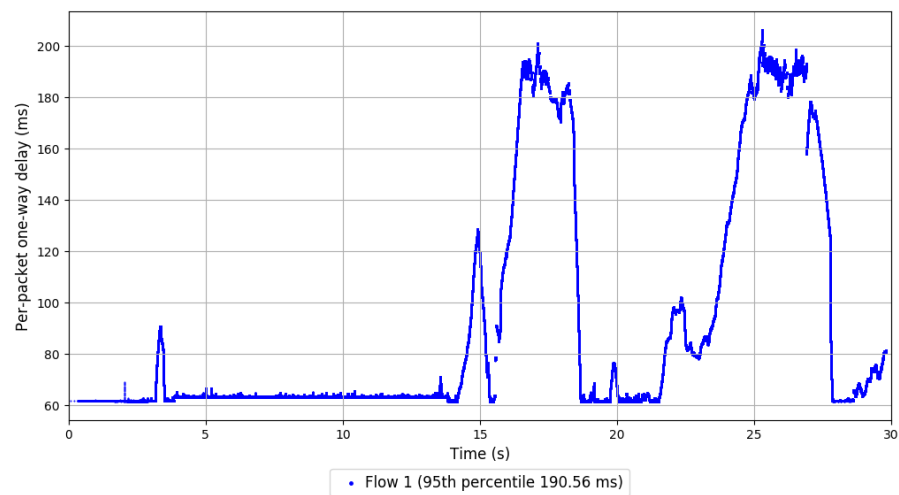
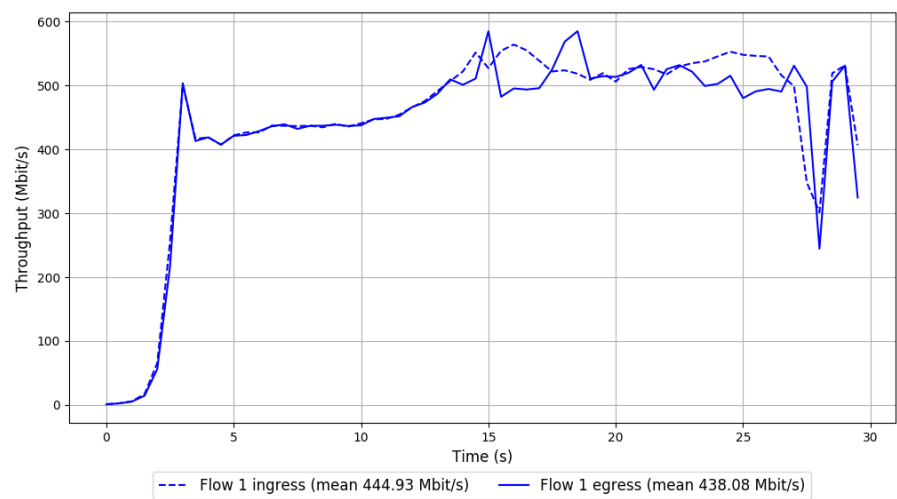
-- Flow 1:

Average throughput: 438.08 Mbit/s

95th percentile per-packet one-way delay: 190.556 ms

Loss rate: 1.95%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-16 15:35:20

End at: 2018-02-16 15:35:50

Below is generated by plot.py at 2018-02-16 21:06:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 249.37 Mbit/s

95th percentile per-packet one-way delay: 212.323 ms

Loss rate: 7.39%

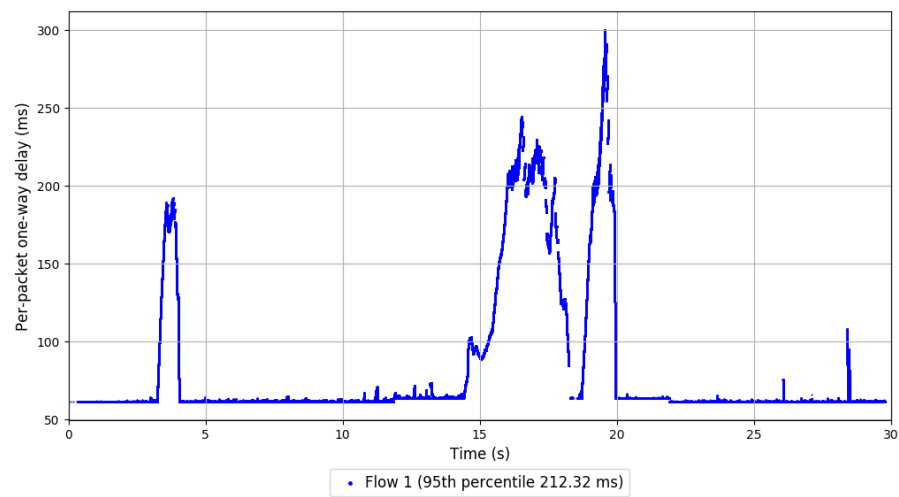
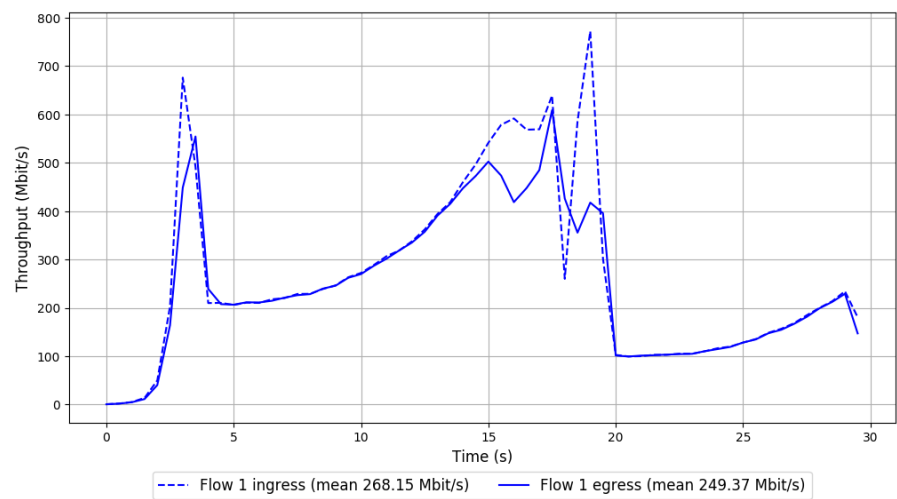
-- Flow 1:

Average throughput: 249.37 Mbit/s

95th percentile per-packet one-way delay: 212.323 ms

Loss rate: 7.39%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-16 15:50:02

End at: 2018-02-16 15:50:32

Below is generated by plot.py at 2018-02-16 21:07:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 395.40 Mbit/s

95th percentile per-packet one-way delay: 208.720 ms

Loss rate: 4.41%

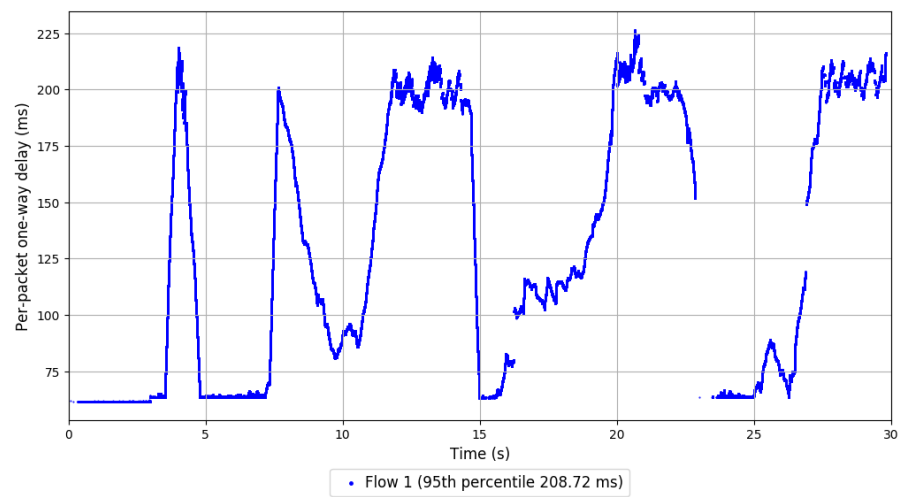
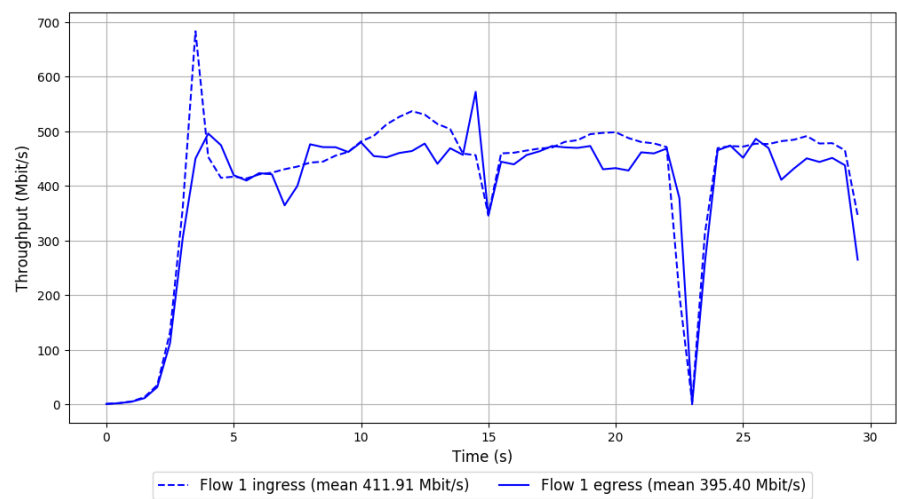
-- Flow 1:

Average throughput: 395.40 Mbit/s

95th percentile per-packet one-way delay: 208.720 ms

Loss rate: 4.41%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-16 16:04:50

End at: 2018-02-16 16:05:20

Below is generated by plot.py at 2018-02-16 21:10:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 375.71 Mbit/s

95th percentile per-packet one-way delay: 192.294 ms

Loss rate: 1.81%

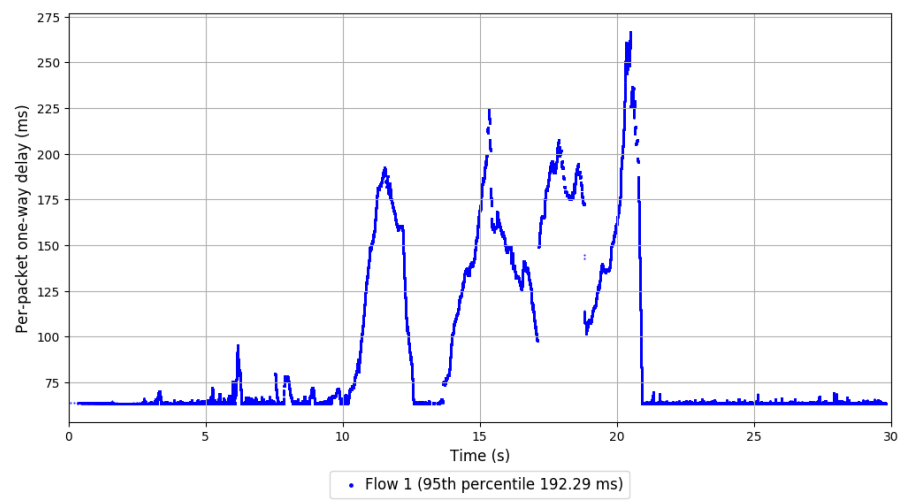
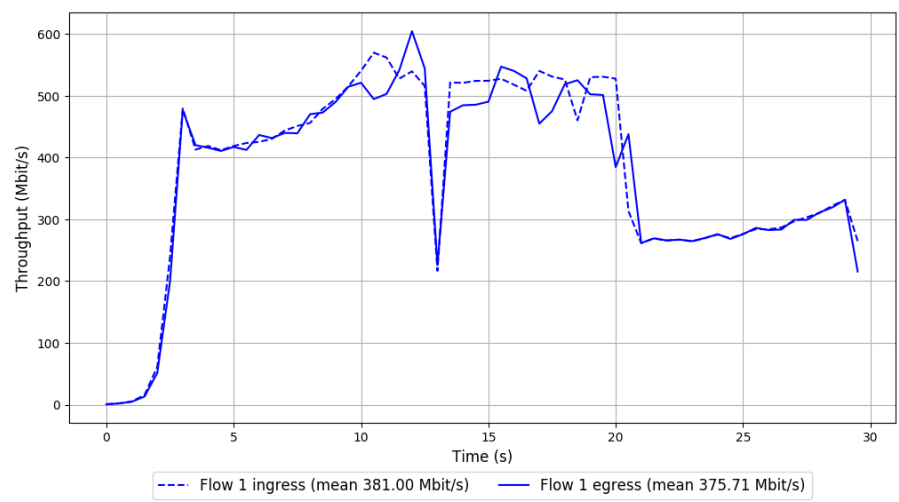
-- Flow 1:

Average throughput: 375.71 Mbit/s

95th percentile per-packet one-way delay: 192.294 ms

Loss rate: 1.81%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

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

End at: 2018-02-16 16:20:26

Below is generated by plot.py at 2018-02-16 21:12:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 440.91 Mbit/s

95th percentile per-packet one-way delay: 185.334 ms

Loss rate: 1.20%

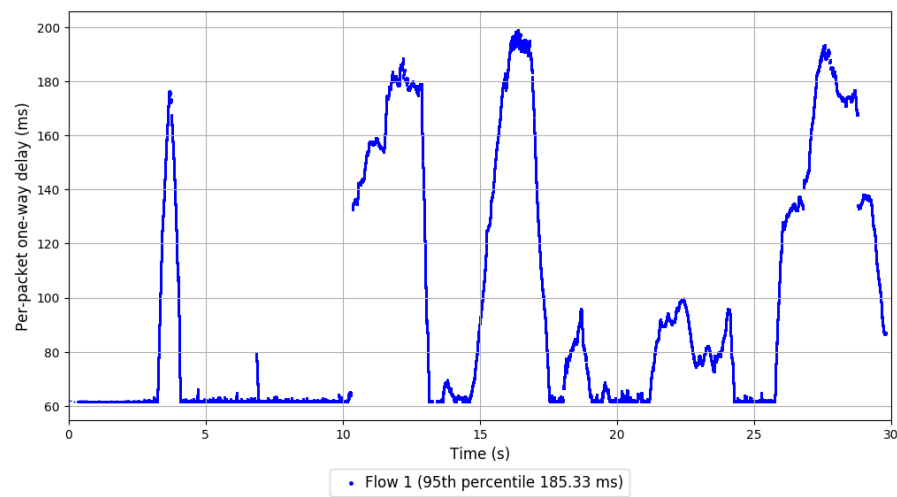
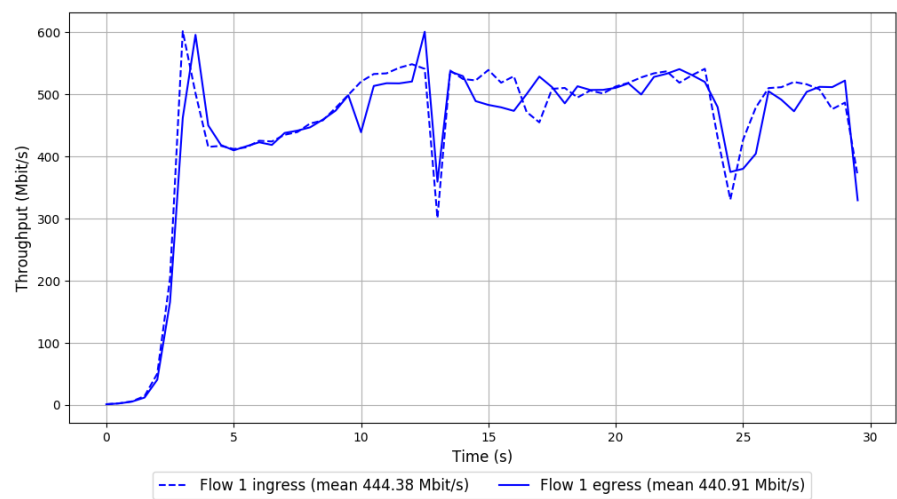
-- Flow 1:

Average throughput: 440.91 Mbit/s

95th percentile per-packet one-way delay: 185.334 ms

Loss rate: 1.20%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

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

End at: 2018-02-16 16:35:32

Below is generated by plot.py at 2018-02-16 21:12:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 345.25 Mbit/s

95th percentile per-packet one-way delay: 208.713 ms

Loss rate: 4.39%

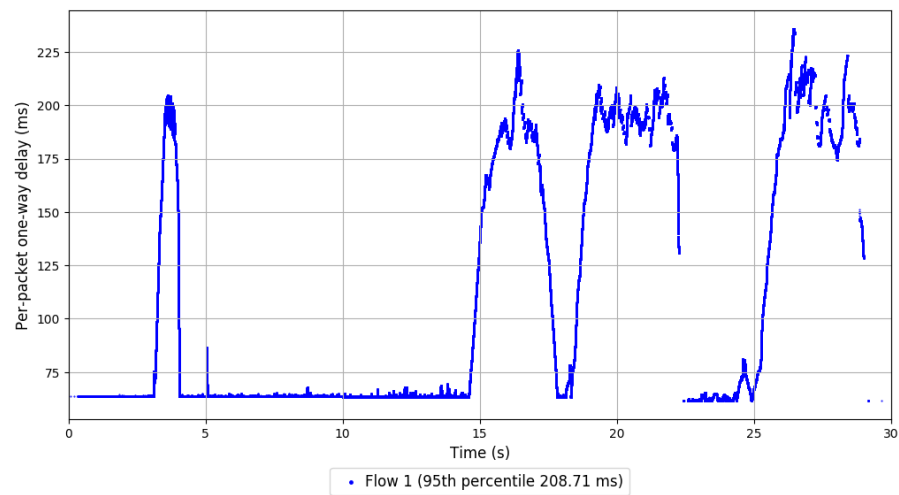
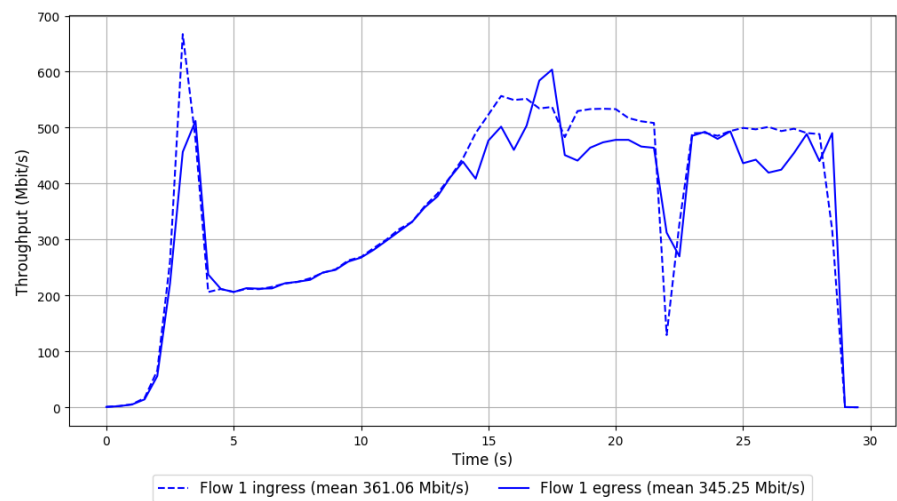
-- Flow 1:

Average throughput: 345.25 Mbit/s

95th percentile per-packet one-way delay: 208.713 ms

Loss rate: 4.39%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-16 16:49:58

End at: 2018-02-16 16:50:28

Below is generated by plot.py at 2018-02-16 21:12:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 371.13 Mbit/s

95th percentile per-packet one-way delay: 193.863 ms

Loss rate: 3.87%

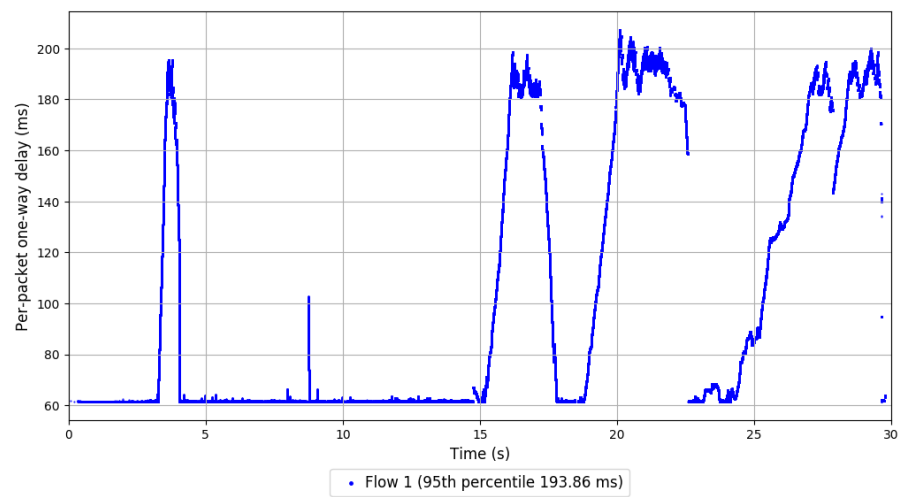
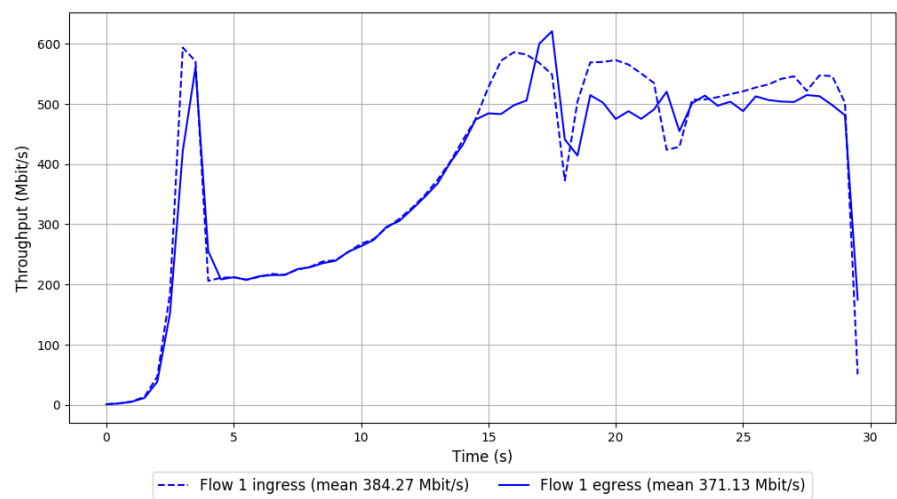
-- Flow 1:

Average throughput: 371.13 Mbit/s

95th percentile per-packet one-way delay: 193.863 ms

Loss rate: 3.87%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-16 17:04:51

End at: 2018-02-16 17:05:21

Below is generated by plot.py at 2018-02-16 21:12:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 318.03 Mbit/s

95th percentile per-packet one-way delay: 199.248 ms

Loss rate: 8.19%

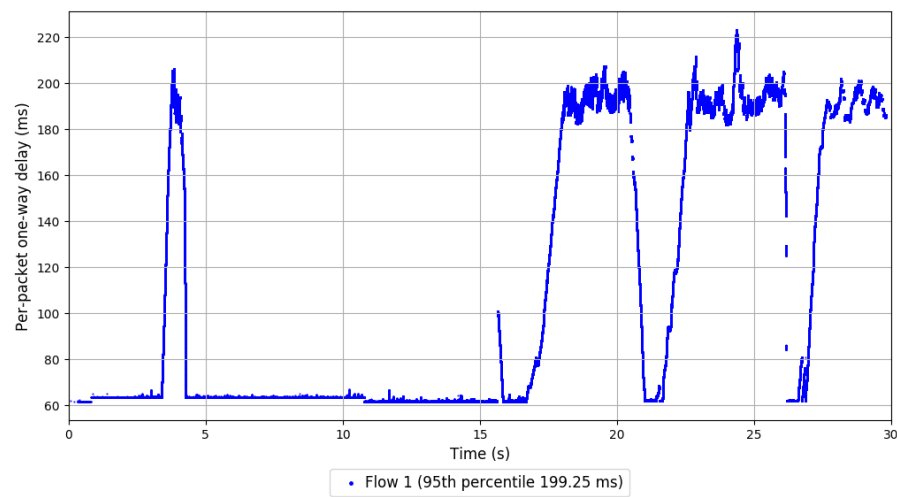
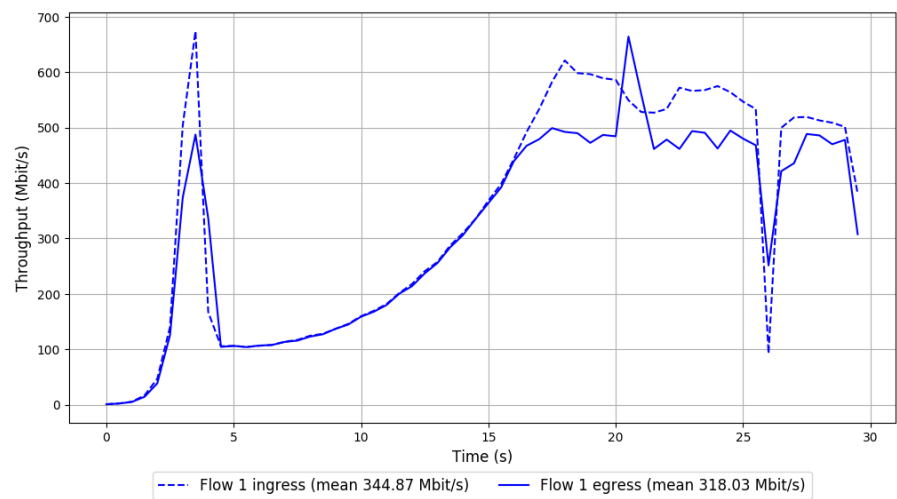
-- Flow 1:

Average throughput: 318.03 Mbit/s

95th percentile per-packet one-way delay: 199.248 ms

Loss rate: 8.19%

Run 10: Report of Vivace-loss — Data Link

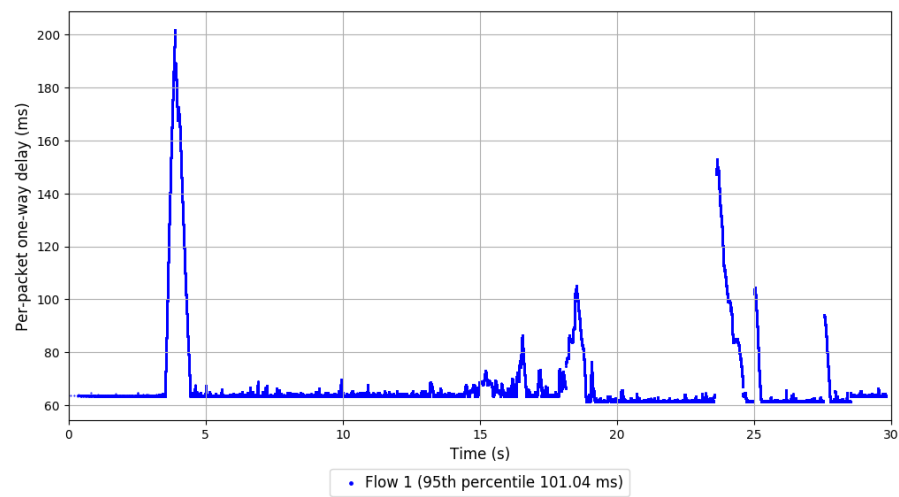
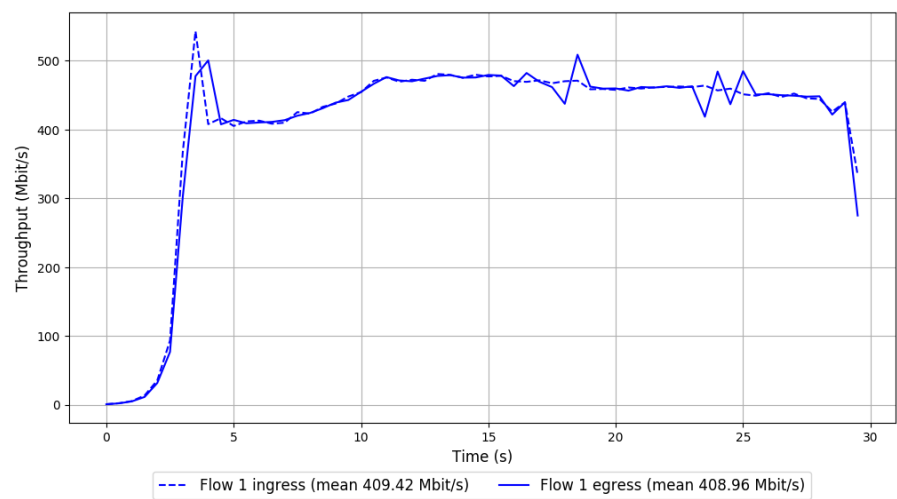


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-16 14:41:43
End at: 2018-02-16 14:42:13

# Below is generated by plot.py at 2018-02-16 21:14:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 408.96 Mbit/s
95th percentile per-packet one-way delay: 101.037 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 408.96 Mbit/s
95th percentile per-packet one-way delay: 101.037 ms
Loss rate: 0.54%
```

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-16 14:56:50

End at: 2018-02-16 14:57:20

Below is generated by plot.py at 2018-02-16 21:14:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 425.48 Mbit/s

95th percentile per-packet one-way delay: 145.205 ms

Loss rate: 0.53%

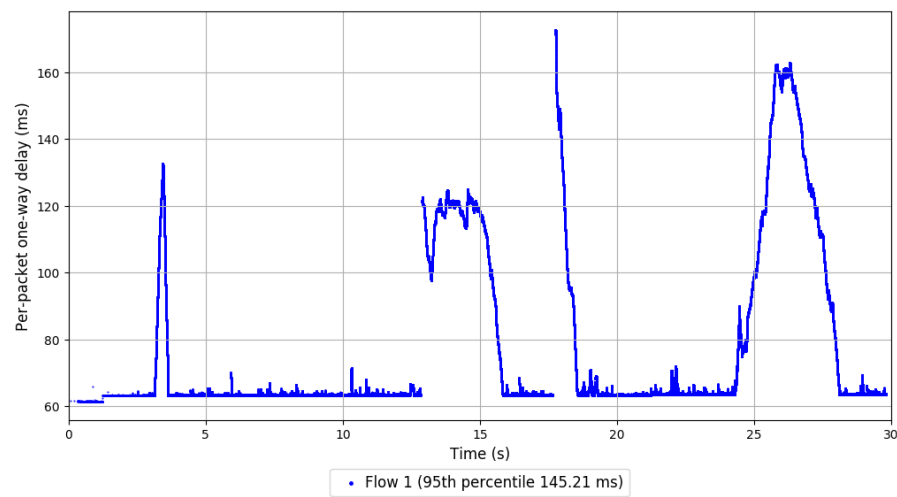
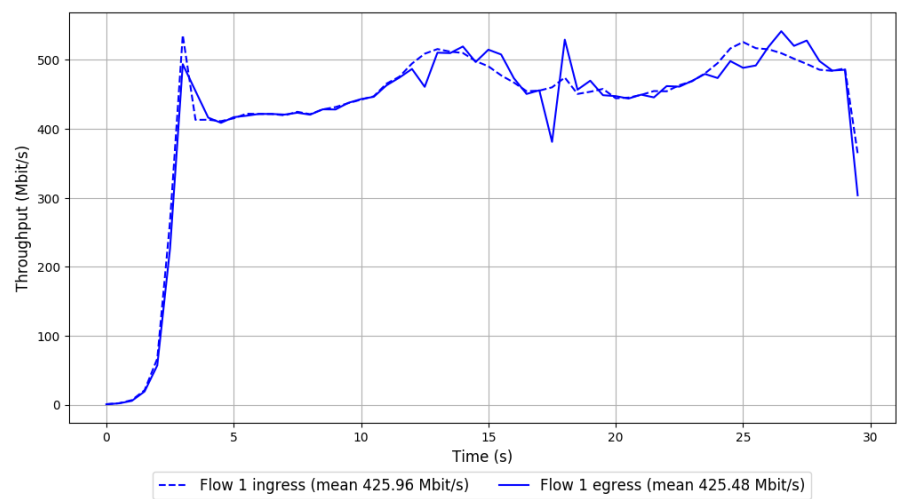
-- Flow 1:

Average throughput: 425.48 Mbit/s

95th percentile per-packet one-way delay: 145.205 ms

Loss rate: 0.53%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-16 15:11:59

End at: 2018-02-16 15:12:29

Below is generated by plot.py at 2018-02-16 21:15:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 415.11 Mbit/s

95th percentile per-packet one-way delay: 91.066 ms

Loss rate: 0.54%

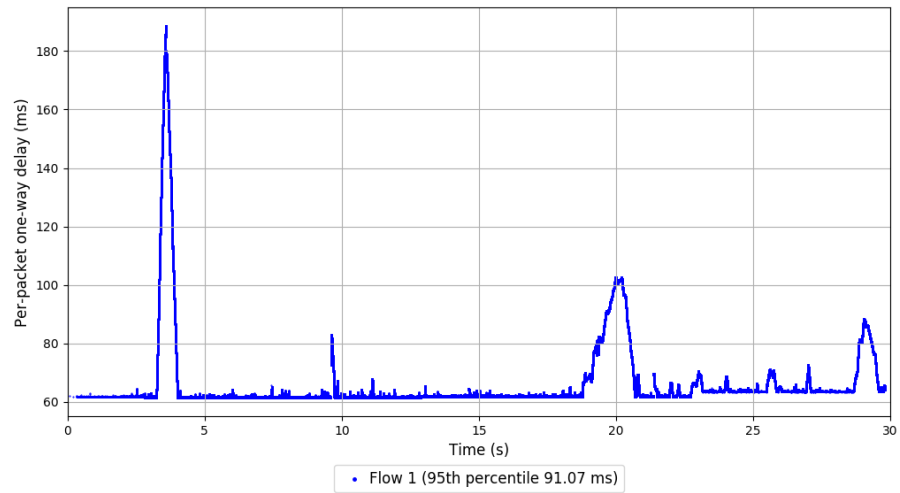
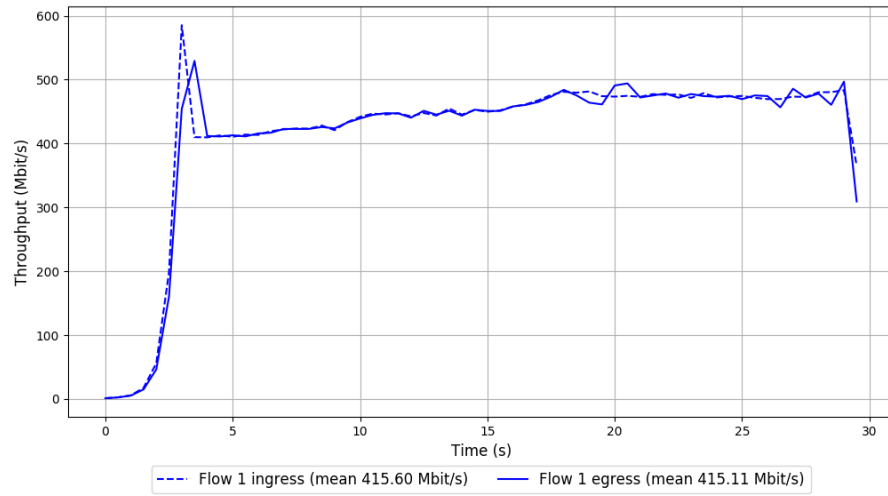
-- Flow 1:

Average throughput: 415.11 Mbit/s

95th percentile per-packet one-way delay: 91.066 ms

Loss rate: 0.54%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-16 15:26:49

End at: 2018-02-16 15:27:19

Below is generated by plot.py at 2018-02-16 21:17:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 381.07 Mbit/s

95th percentile per-packet one-way delay: 100.912 ms

Loss rate: 0.55%

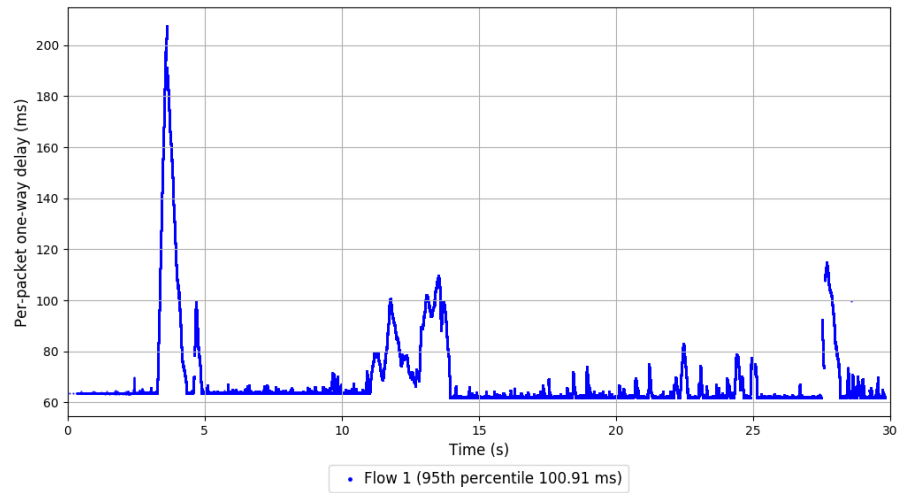
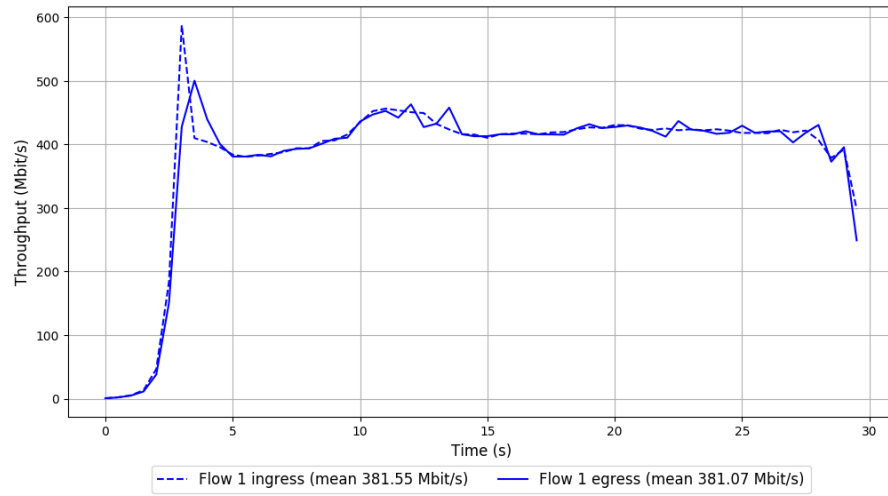
-- Flow 1:

Average throughput: 381.07 Mbit/s

95th percentile per-packet one-way delay: 100.912 ms

Loss rate: 0.55%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-16 15:41:28

End at: 2018-02-16 15:41:58

Below is generated by plot.py at 2018-02-16 21:18:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 423.31 Mbit/s

95th percentile per-packet one-way delay: 84.320 ms

Loss rate: 0.54%

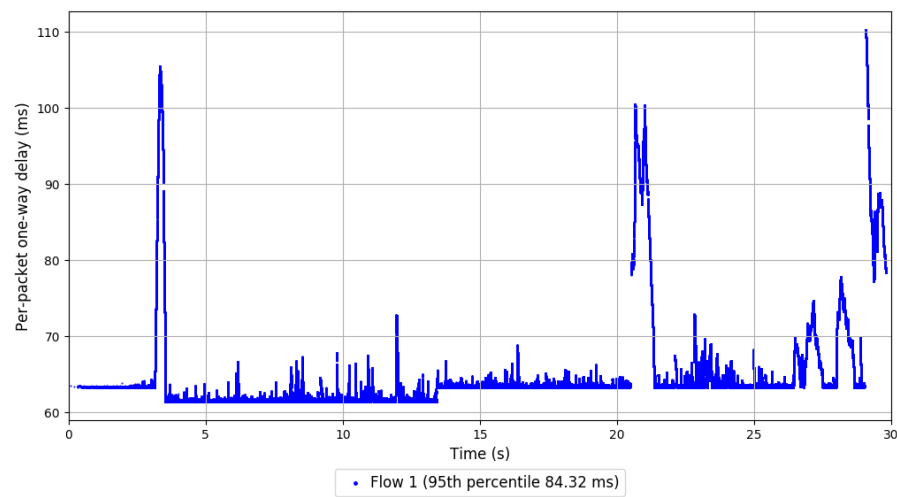
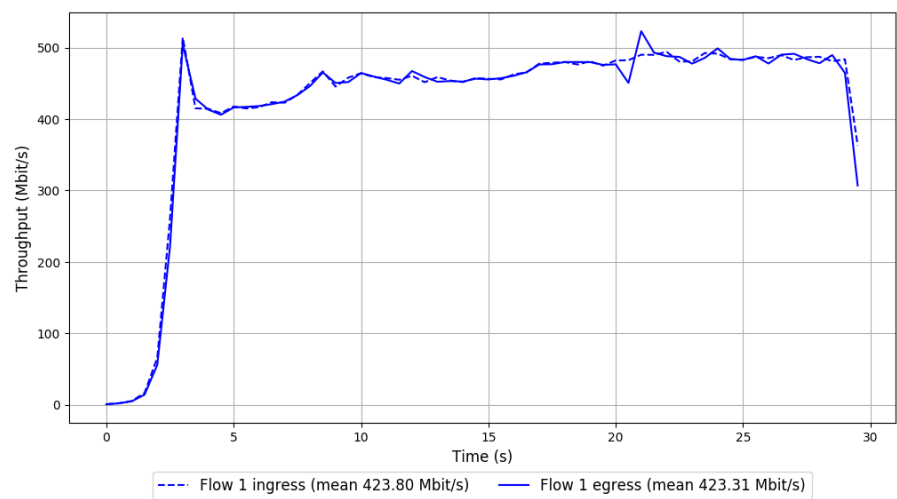
-- Flow 1:

Average throughput: 423.31 Mbit/s

95th percentile per-packet one-way delay: 84.320 ms

Loss rate: 0.54%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-16 15:56:18

End at: 2018-02-16 15:56:48

Below is generated by plot.py at 2018-02-16 21:18:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 398.10 Mbit/s

95th percentile per-packet one-way delay: 85.485 ms

Loss rate: 0.60%

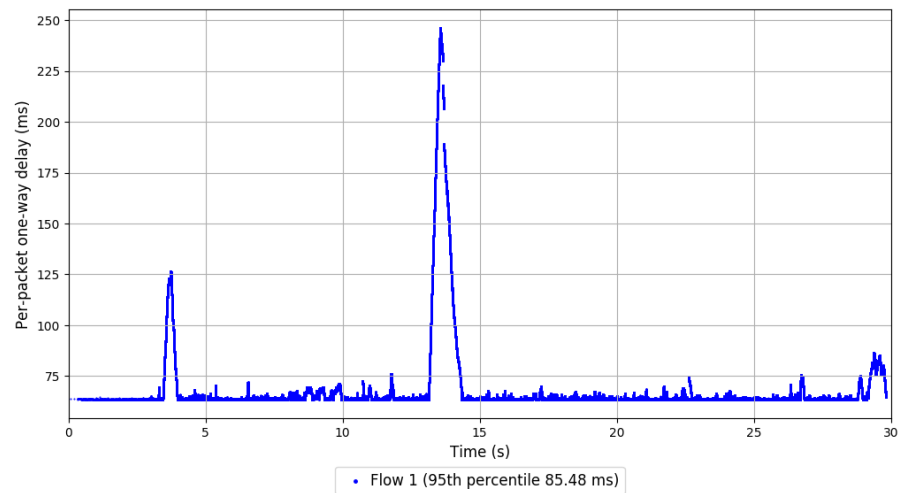
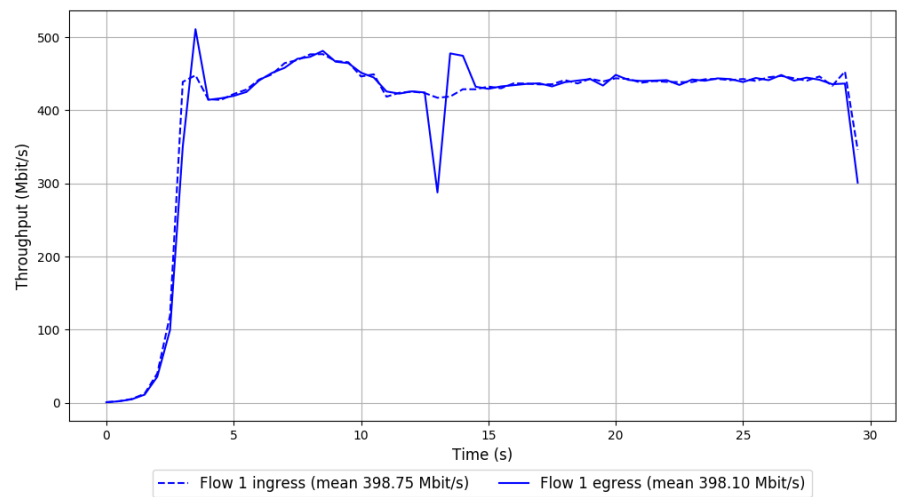
-- Flow 1:

Average throughput: 398.10 Mbit/s

95th percentile per-packet one-way delay: 85.485 ms

Loss rate: 0.60%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-16 16:11:19

End at: 2018-02-16 16:11:49

Below is generated by plot.py at 2018-02-16 21:18:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 368.23 Mbit/s

95th percentile per-packet one-way delay: 118.798 ms

Loss rate: 0.60%

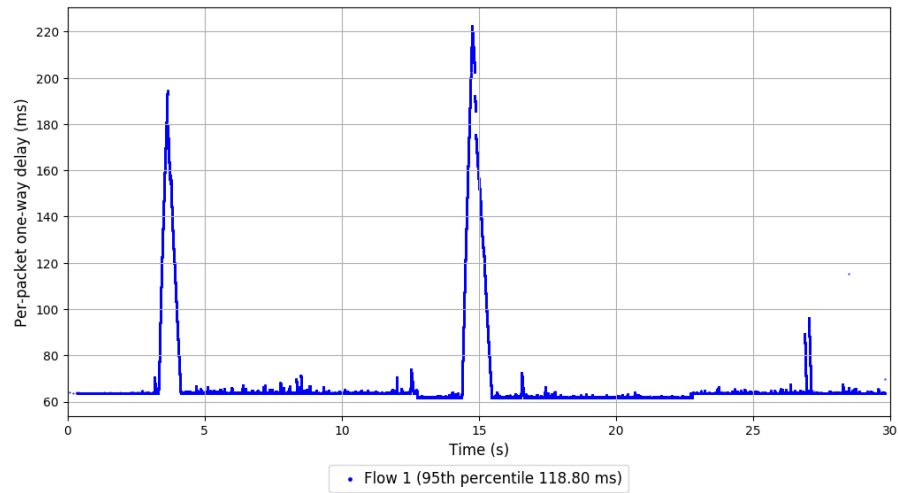
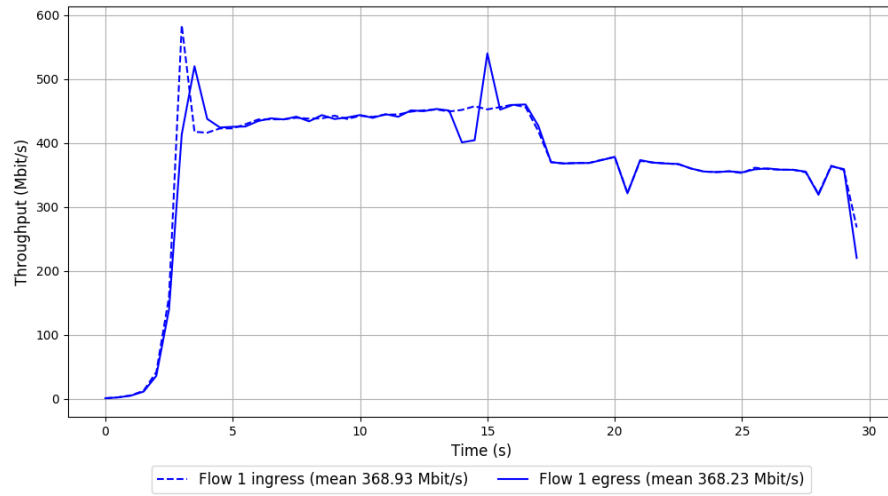
-- Flow 1:

Average throughput: 368.23 Mbit/s

95th percentile per-packet one-way delay: 118.798 ms

Loss rate: 0.60%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-16 16:26:28

End at: 2018-02-16 16:26:58

Below is generated by plot.py at 2018-02-16 21:18:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 343.27 Mbit/s

95th percentile per-packet one-way delay: 196.354 ms

Loss rate: 1.84%

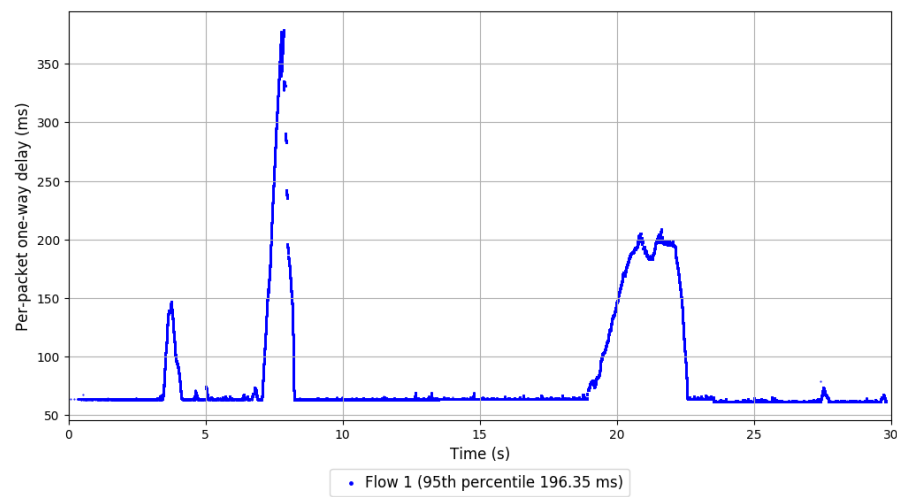
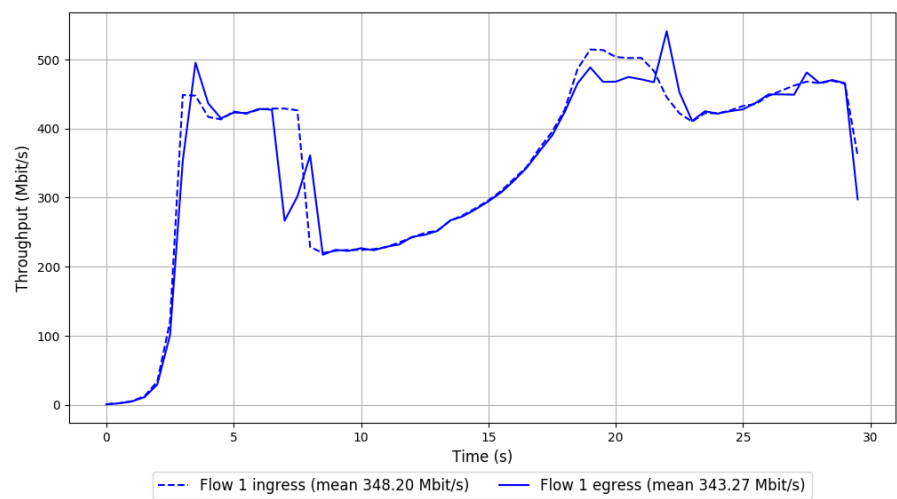
-- Flow 1:

Average throughput: 343.27 Mbit/s

95th percentile per-packet one-way delay: 196.354 ms

Loss rate: 1.84%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-16 16:41:21

End at: 2018-02-16 16:41:51

Below is generated by plot.py at 2018-02-16 21:18:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 372.61 Mbit/s

95th percentile per-packet one-way delay: 104.724 ms

Loss rate: 0.75%

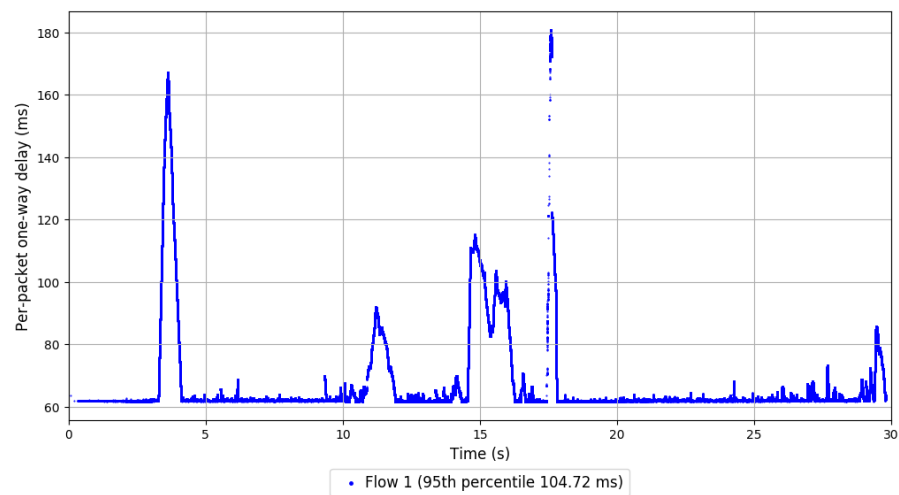
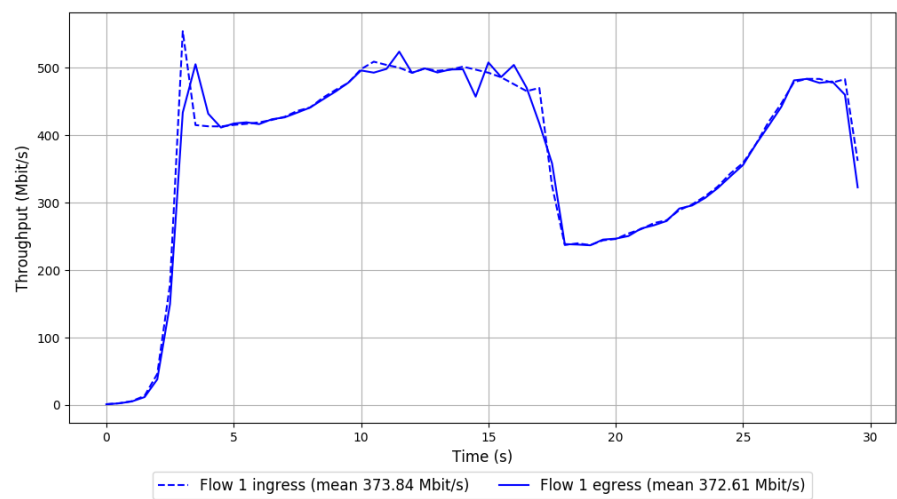
-- Flow 1:

Average throughput: 372.61 Mbit/s

95th percentile per-packet one-way delay: 104.724 ms

Loss rate: 0.75%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-16 16:56:20

End at: 2018-02-16 16:56:50

Below is generated by plot.py at 2018-02-16 21:18:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 420.87 Mbit/s

95th percentile per-packet one-way delay: 178.769 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 420.87 Mbit/s

95th percentile per-packet one-way delay: 178.769 ms

Loss rate: 0.78%

Run 10: Report of Vivace-LTE — Data Link

