

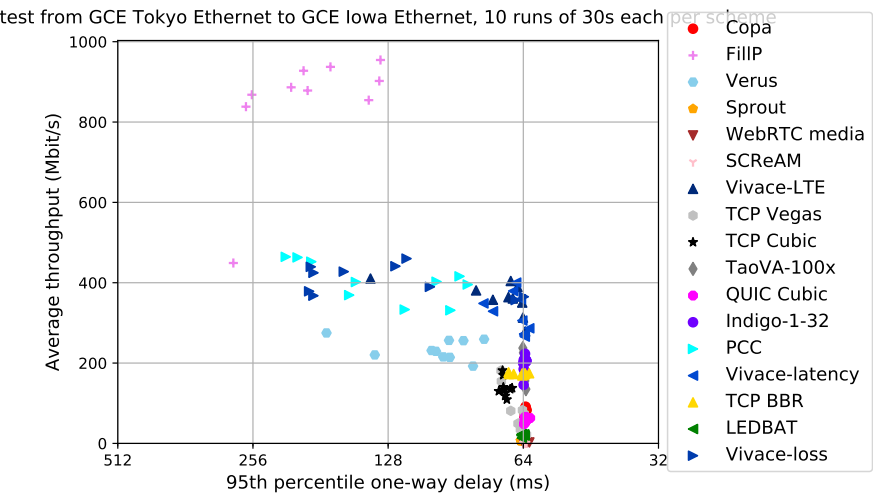
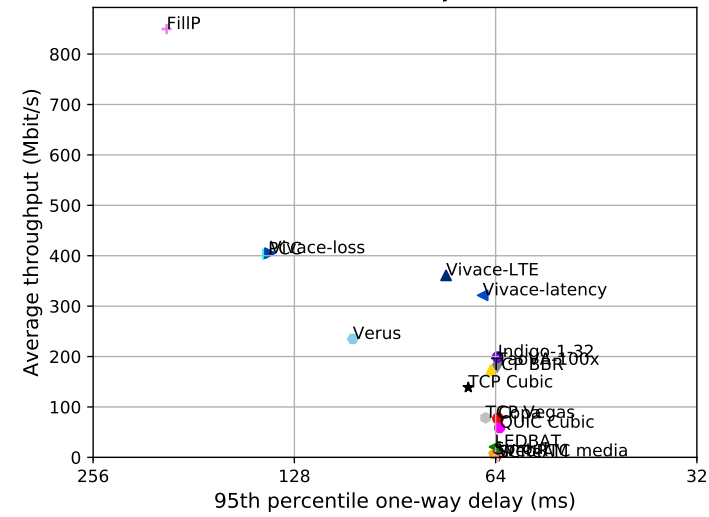
Pantheon Report

Generated at 2018-02-20 15:37:32 (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 @ f12c42a2c63fdd9a862eefa0468859bf379b6623
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from GCE 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	173.29	65.04	0.44
TCP Cubic	10	138.72	70.32	0.47
LEDBAT	10	20.78	64.25	0.73
PCC	10	402.93	140.13	1.14
QUIC Cubic	10	58.90	63.13	0.60
SCReAM	10	0.22	63.54	0.39
WebRTC media	10	2.18	63.35	0.50
Sprout	10	6.44	64.38	0.45
TaoVA-100x	10	183.63	63.68	0.39
TCP Vegas	10	78.32	66.26	0.38
Verus	10	234.94	104.67	0.74
Copa	10	77.19	63.48	0.35
FillP	10	849.65	198.78	3.48
Indigo-1-32	10	198.87	63.53	0.48
Vivace-latency	10	321.47	66.92	0.51
Vivace-loss	10	405.11	139.17	1.38
Vivace-LTE	10	361.05	75.91	0.50

Run 1: Statistics of TCP BBR

Start at: 2018-02-20 09:19:33

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

Below is generated by plot.py at 2018-02-20 14:18:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.71 Mbit/s

95th percentile per-packet one-way delay: 68.882 ms

Loss rate: 0.44%

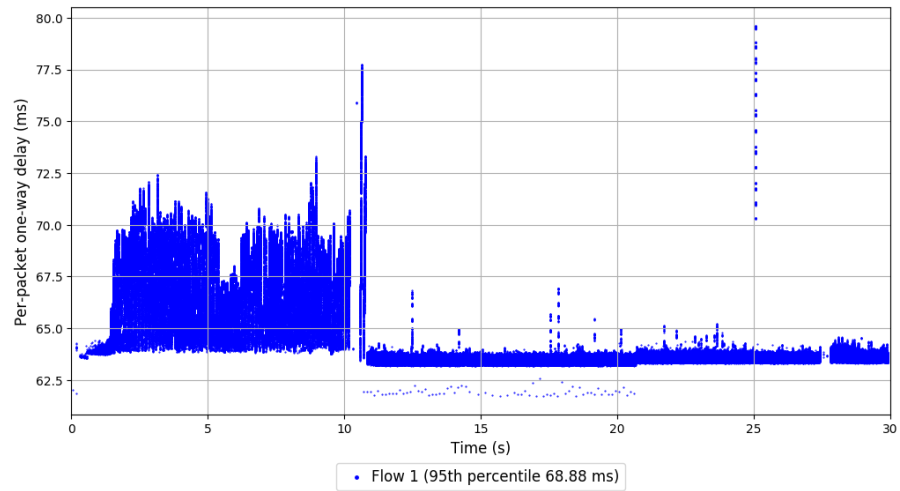
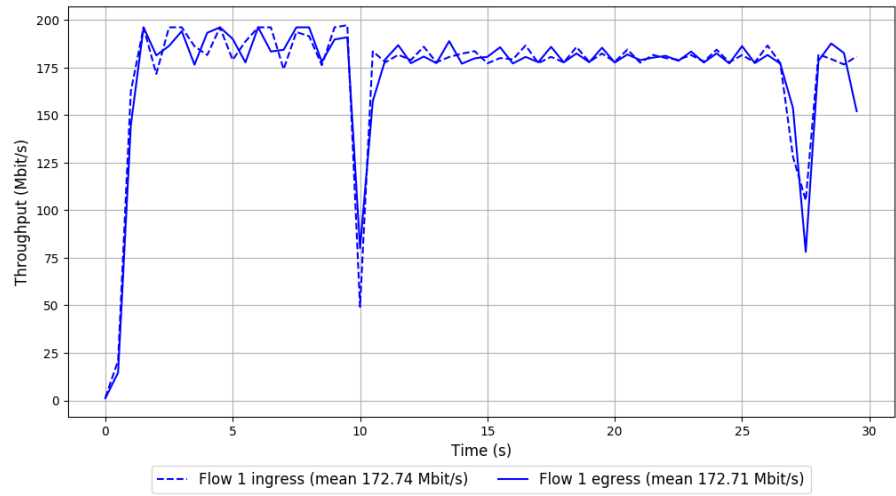
-- Flow 1:

Average throughput: 172.71 Mbit/s

95th percentile per-packet one-way delay: 68.882 ms

Loss rate: 0.44%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-20 09:34:20

End at: 2018-02-20 09:34:50

Below is generated by plot.py at 2018-02-20 14:18:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.73 Mbit/s

95th percentile per-packet one-way delay: 67.243 ms

Loss rate: 0.44%

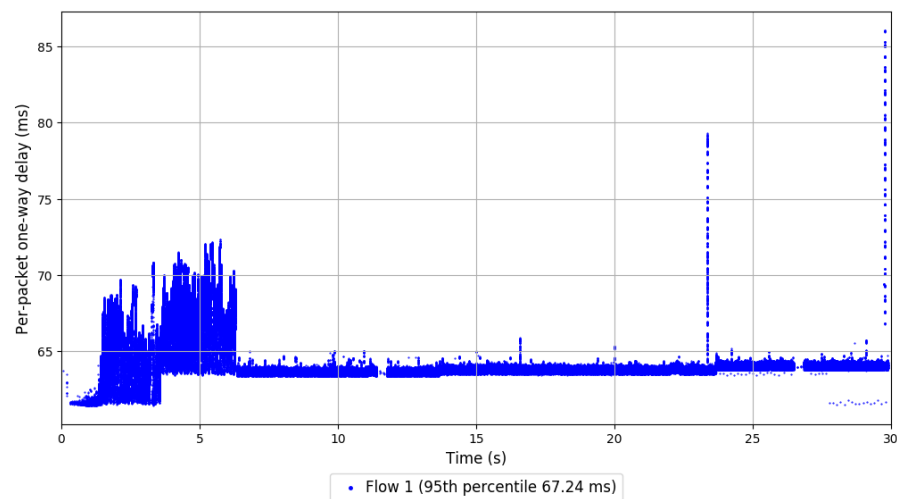
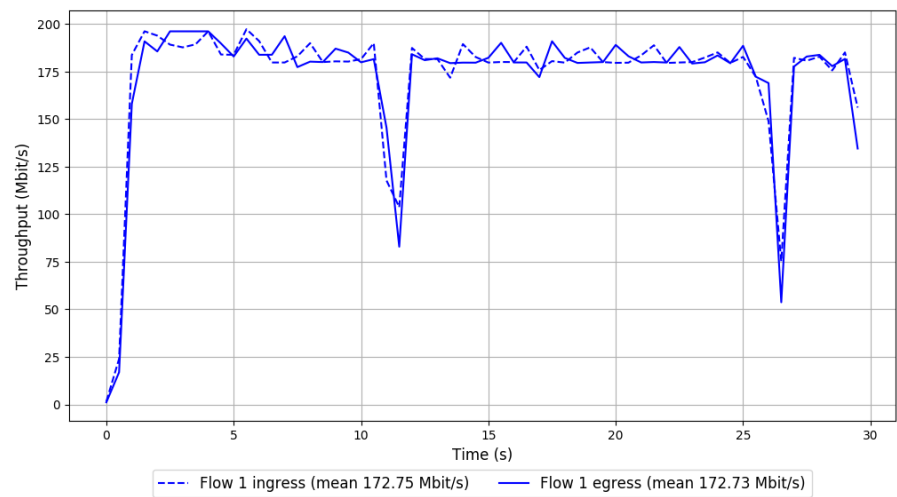
-- Flow 1:

Average throughput: 172.73 Mbit/s

95th percentile per-packet one-way delay: 67.243 ms

Loss rate: 0.44%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-20 09:48:58

End at: 2018-02-20 09:49:28

Below is generated by plot.py at 2018-02-20 14:18:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.22 Mbit/s

95th percentile per-packet one-way delay: 64.321 ms

Loss rate: 0.45%

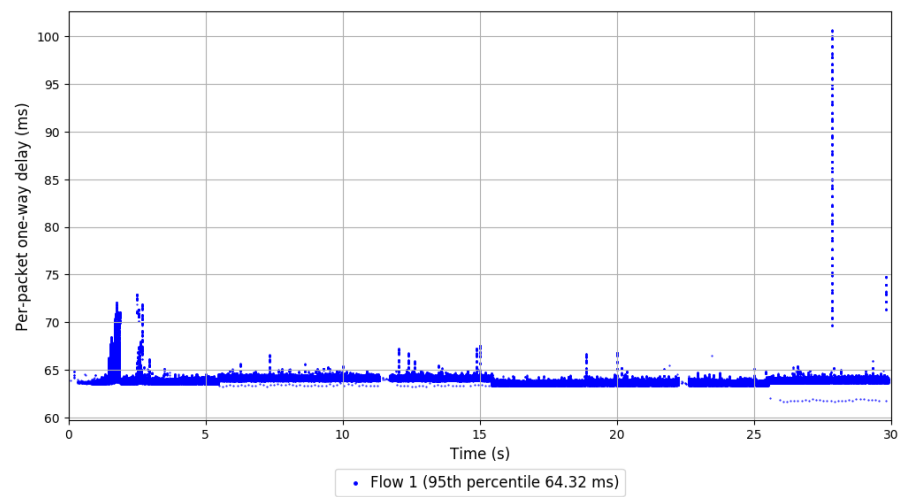
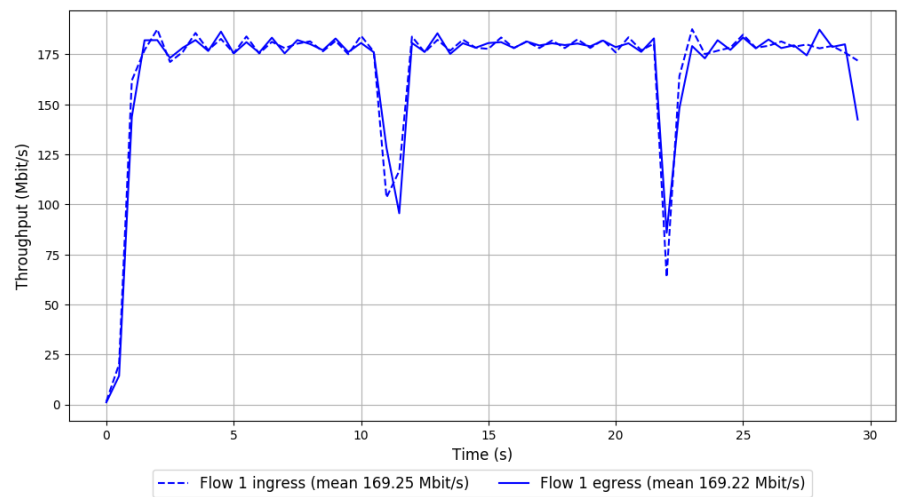
-- Flow 1:

Average throughput: 169.22 Mbit/s

95th percentile per-packet one-way delay: 64.321 ms

Loss rate: 0.45%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-20 10:03:19

End at: 2018-02-20 10:03:50

Below is generated by plot.py at 2018-02-20 14:18:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.46 Mbit/s

95th percentile per-packet one-way delay: 64.324 ms

Loss rate: 0.44%

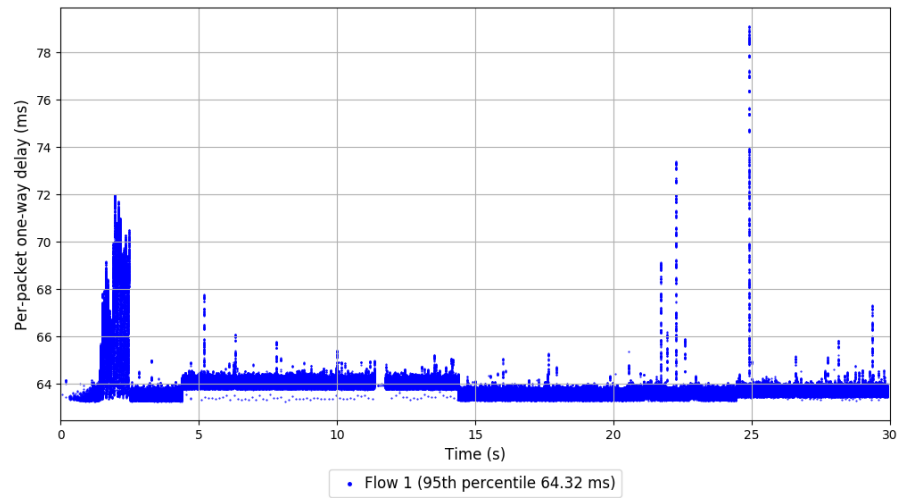
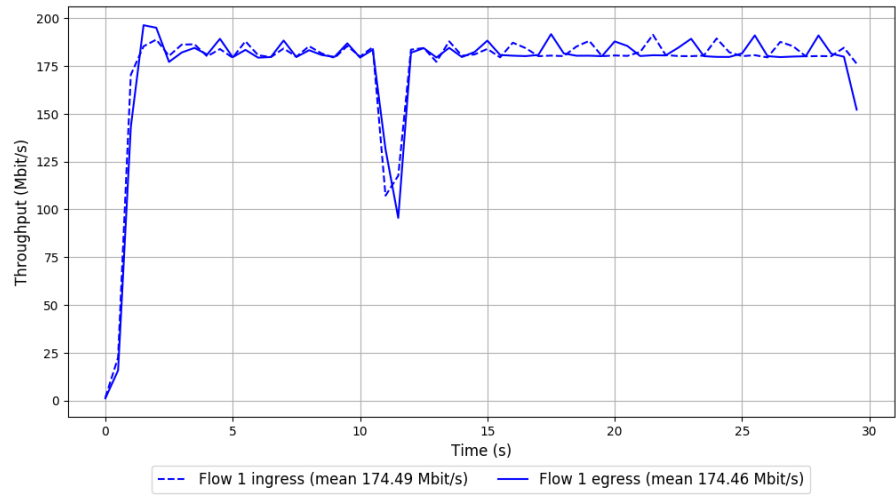
-- Flow 1:

Average throughput: 174.46 Mbit/s

95th percentile per-packet one-way delay: 64.324 ms

Loss rate: 0.44%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-20 10:18:09

End at: 2018-02-20 10:18:39

Below is generated by plot.py at 2018-02-20 14:18:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.67 Mbit/s

95th percentile per-packet one-way delay: 62.117 ms

Loss rate: 0.44%

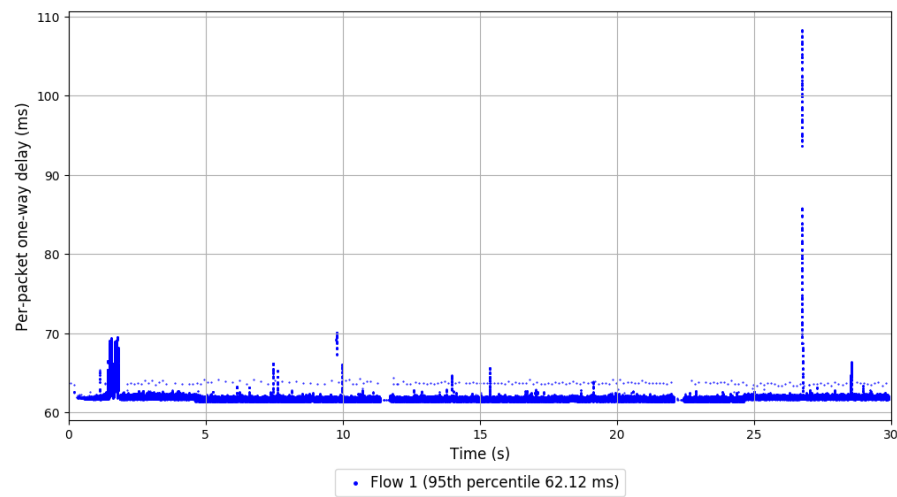
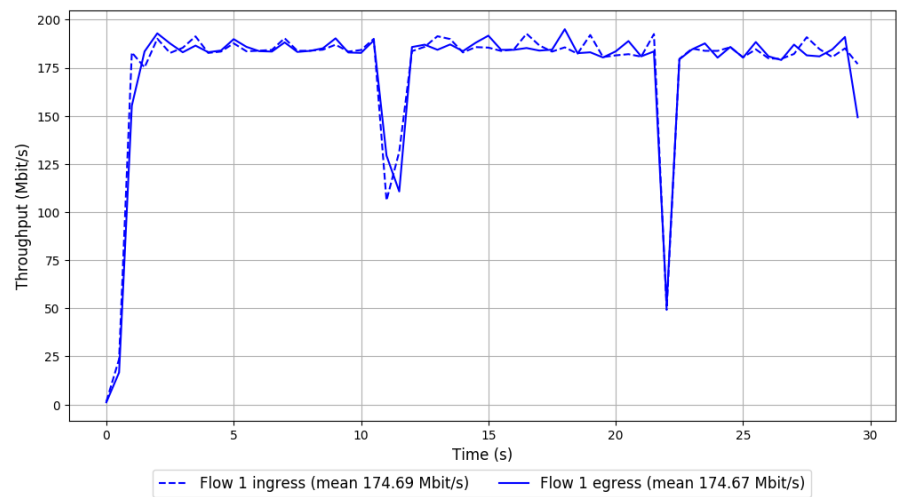
-- Flow 1:

Average throughput: 174.67 Mbit/s

95th percentile per-packet one-way delay: 62.117 ms

Loss rate: 0.44%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-20 10:32:32

End at: 2018-02-20 10:33:02

Below is generated by plot.py at 2018-02-20 14:18:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.13 Mbit/s

95th percentile per-packet one-way delay: 63.896 ms

Loss rate: 0.44%

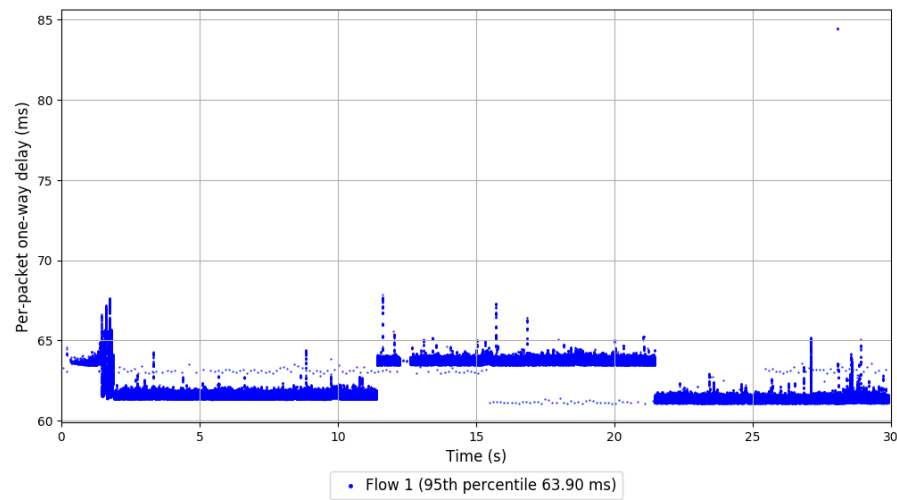
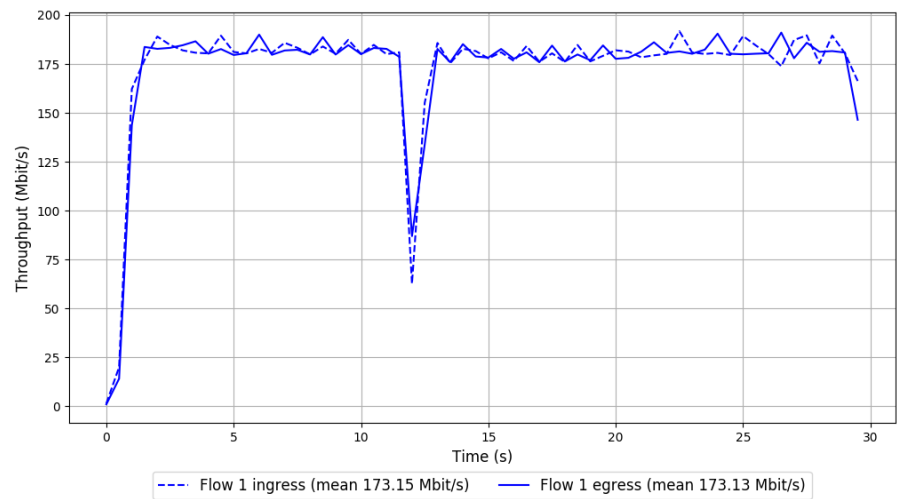
-- Flow 1:

Average throughput: 173.13 Mbit/s

95th percentile per-packet one-way delay: 63.896 ms

Loss rate: 0.44%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-20 10:47:17

End at: 2018-02-20 10:47:47

Below is generated by plot.py at 2018-02-20 14:18:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.49 Mbit/s

95th percentile per-packet one-way delay: 63.699 ms

Loss rate: 0.47%

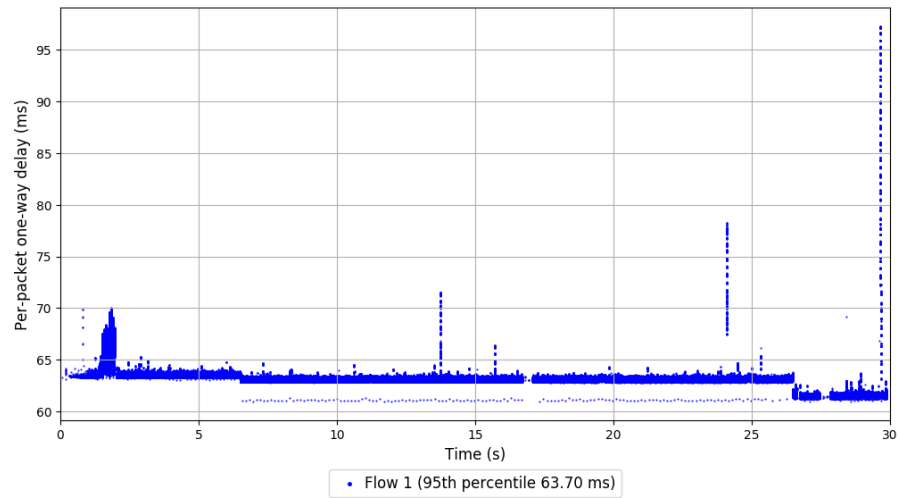
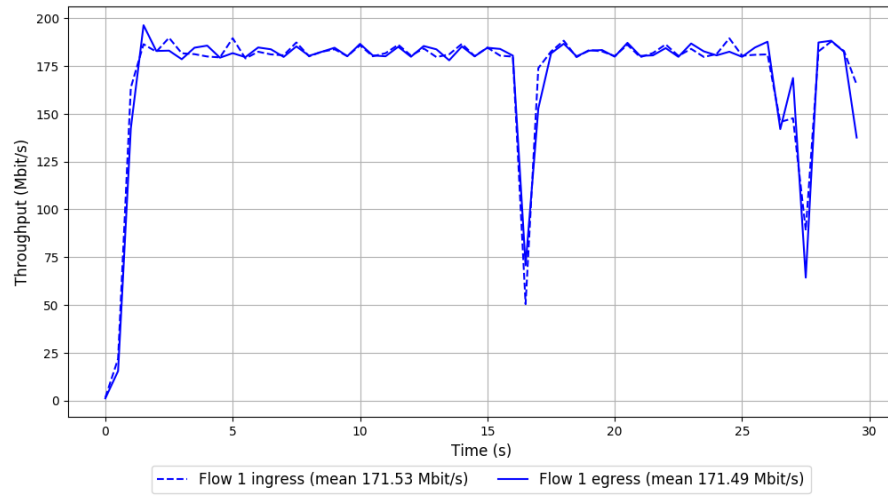
-- Flow 1:

Average throughput: 171.49 Mbit/s

95th percentile per-packet one-way delay: 63.699 ms

Loss rate: 0.47%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-20 11:01:53

End at: 2018-02-20 11:02:23

Below is generated by plot.py at 2018-02-20 14:18:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.76 Mbit/s

95th percentile per-packet one-way delay: 63.420 ms

Loss rate: 0.45%

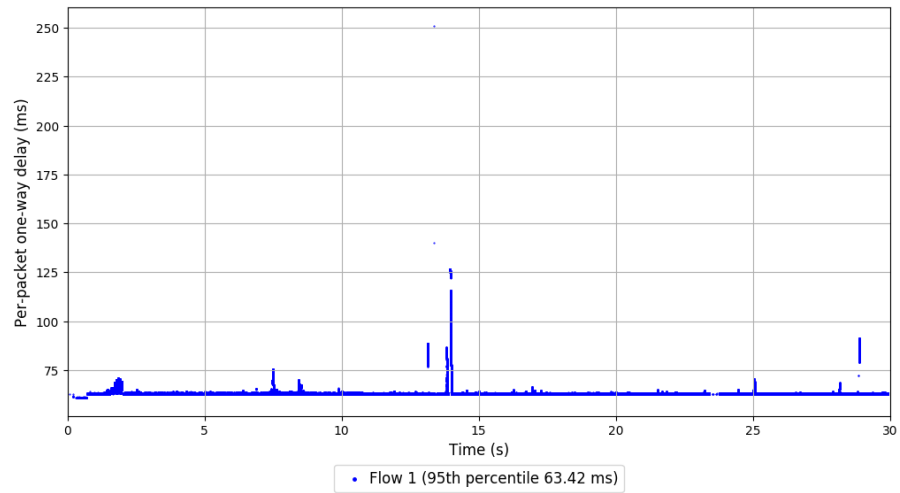
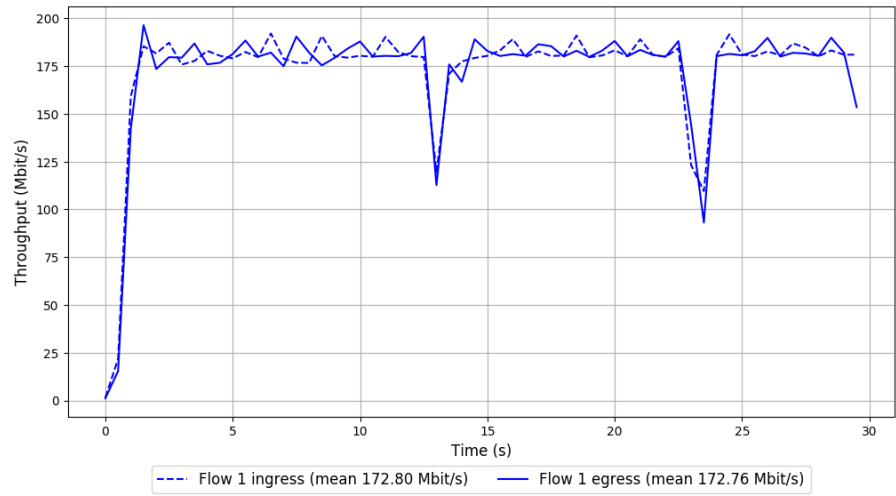
-- Flow 1:

Average throughput: 172.76 Mbit/s

95th percentile per-packet one-way delay: 63.420 ms

Loss rate: 0.45%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-20 11:16:26

End at: 2018-02-20 11:16:56

Below is generated by plot.py at 2018-02-20 14:21:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.99 Mbit/s

95th percentile per-packet one-way delay: 69.031 ms

Loss rate: 0.44%

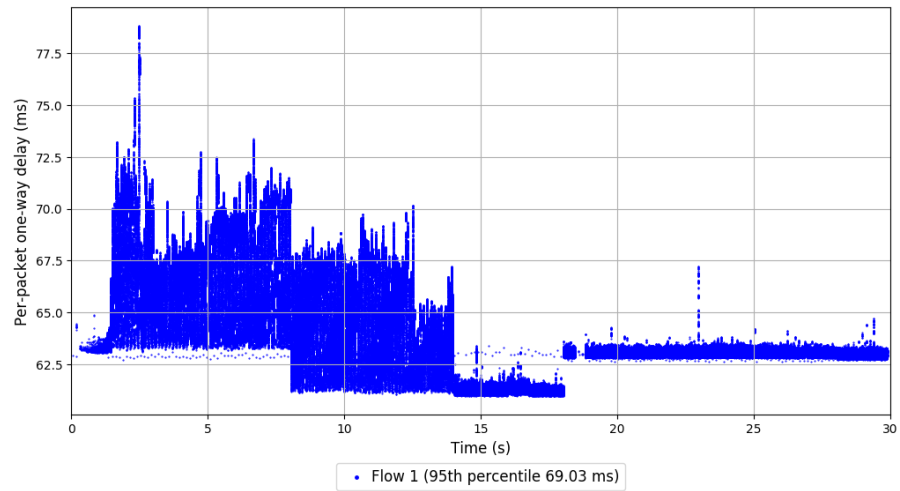
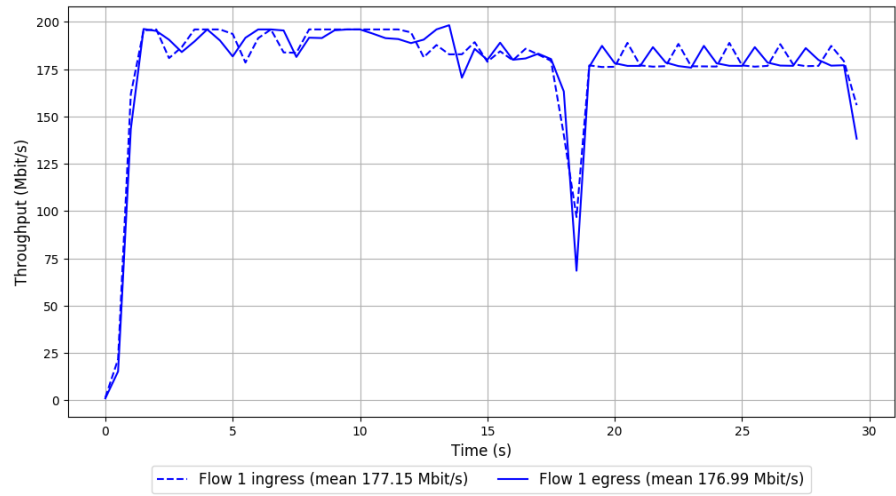
-- Flow 1:

Average throughput: 176.99 Mbit/s

95th percentile per-packet one-way delay: 69.031 ms

Loss rate: 0.44%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-20 11:31:15

End at: 2018-02-20 11:31:45

Below is generated by plot.py at 2018-02-20 14:21:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.74 Mbit/s

95th percentile per-packet one-way delay: 63.456 ms

Loss rate: 0.43%

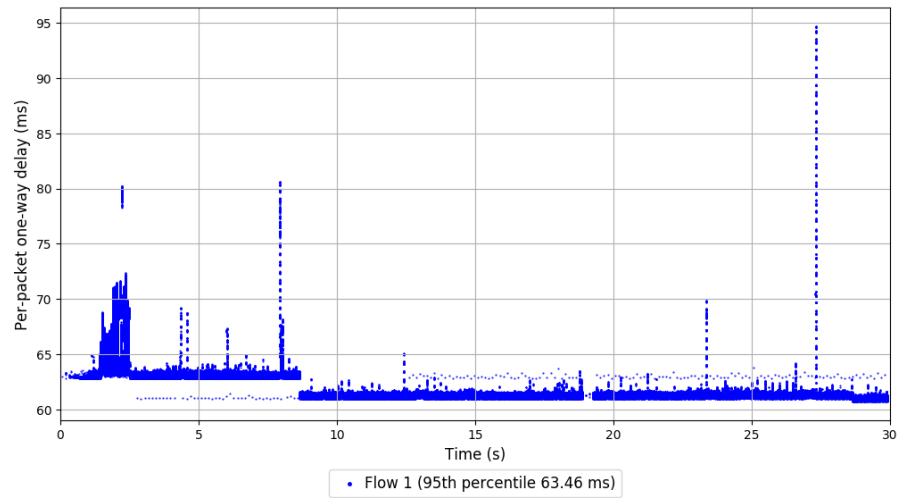
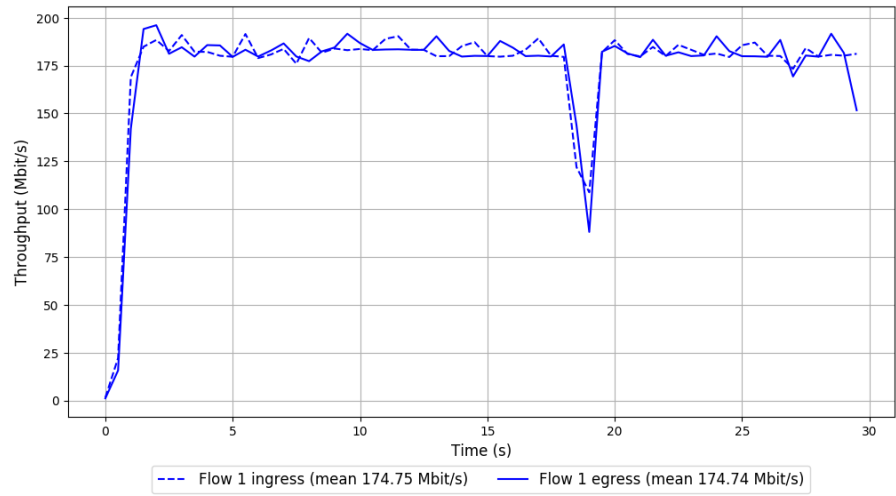
-- Flow 1:

Average throughput: 174.74 Mbit/s

95th percentile per-packet one-way delay: 63.456 ms

Loss rate: 0.43%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-20 09:11:24

End at: 2018-02-20 09:11:54

Below is generated by plot.py at 2018-02-20 14:21:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.09 Mbit/s

95th percentile per-packet one-way delay: 70.940 ms

Loss rate: 0.45%

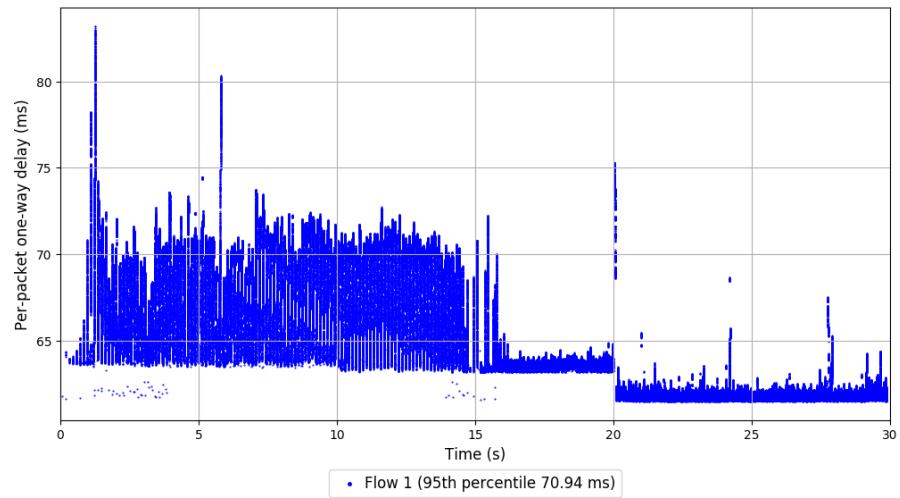
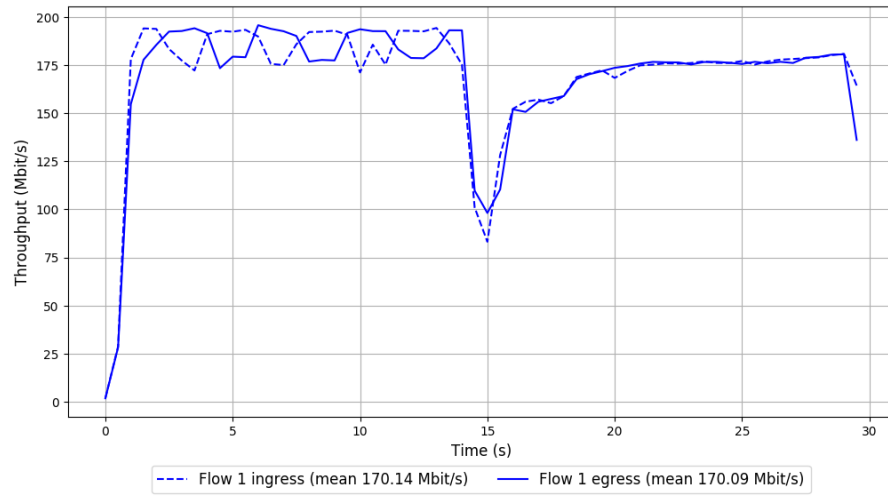
-- Flow 1:

Average throughput: 170.09 Mbit/s

95th percentile per-packet one-way delay: 70.940 ms

Loss rate: 0.45%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-20 09:26:03

End at: 2018-02-20 09:26:33

Below is generated by plot.py at 2018-02-20 14:21:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 109.28 Mbit/s

95th percentile per-packet one-way delay: 69.639 ms

Loss rate: 0.48%

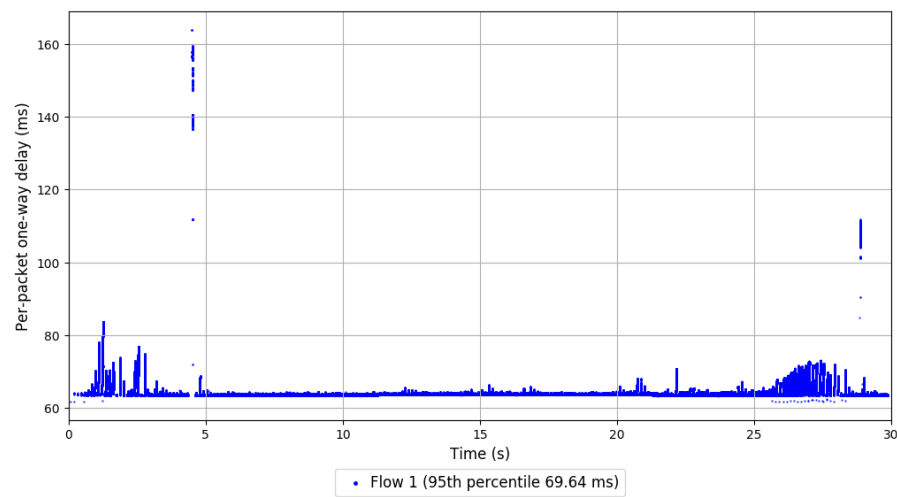
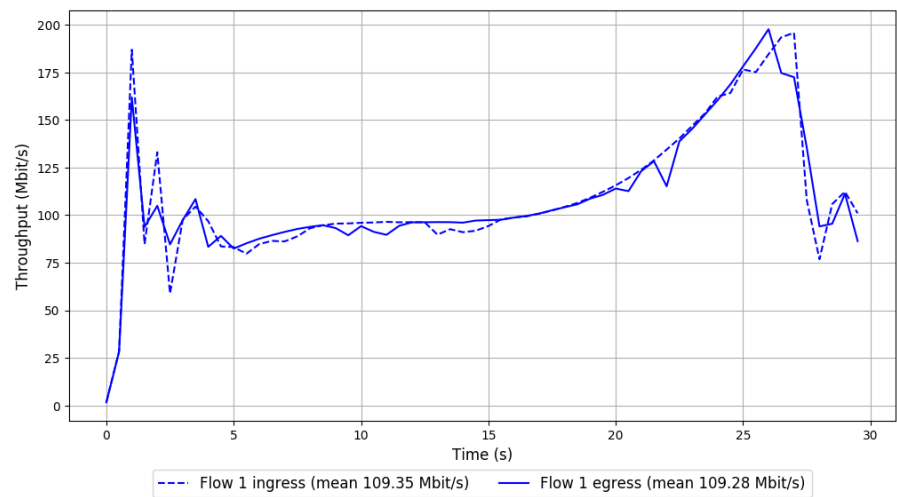
-- Flow 1:

Average throughput: 109.28 Mbit/s

95th percentile per-packet one-way delay: 69.639 ms

Loss rate: 0.48%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-20 09:40:45

End at: 2018-02-20 09:41:15

Below is generated by plot.py at 2018-02-20 14:21:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 132.68 Mbit/s

95th percentile per-packet one-way delay: 71.010 ms

Loss rate: 0.31%

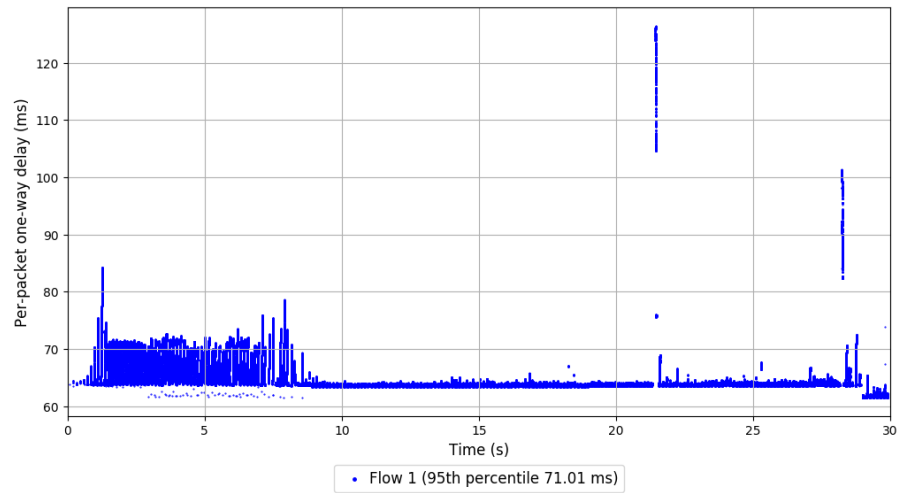
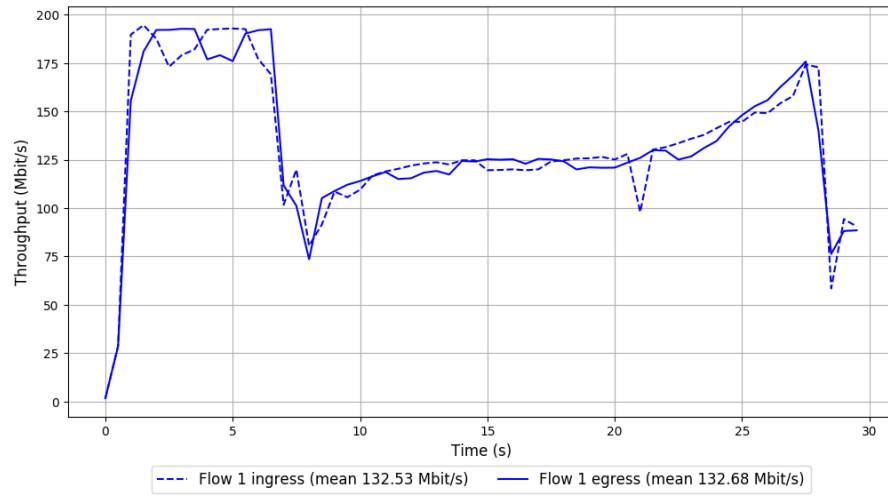
-- Flow 1:

Average throughput: 132.68 Mbit/s

95th percentile per-packet one-way delay: 71.010 ms

Loss rate: 0.31%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-20 09:55:19

End at: 2018-02-20 09:55:49

Below is generated by plot.py at 2018-02-20 14:21:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 135.02 Mbit/s

95th percentile per-packet one-way delay: 68.461 ms

Loss rate: 0.38%

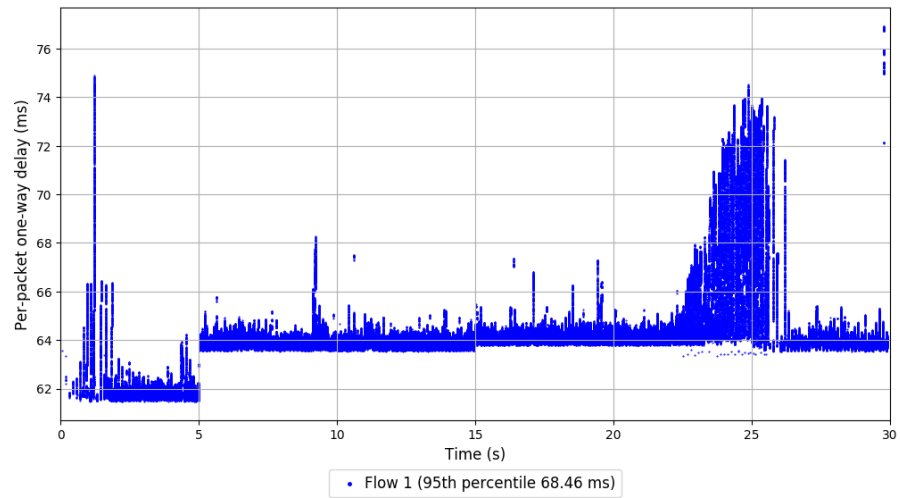
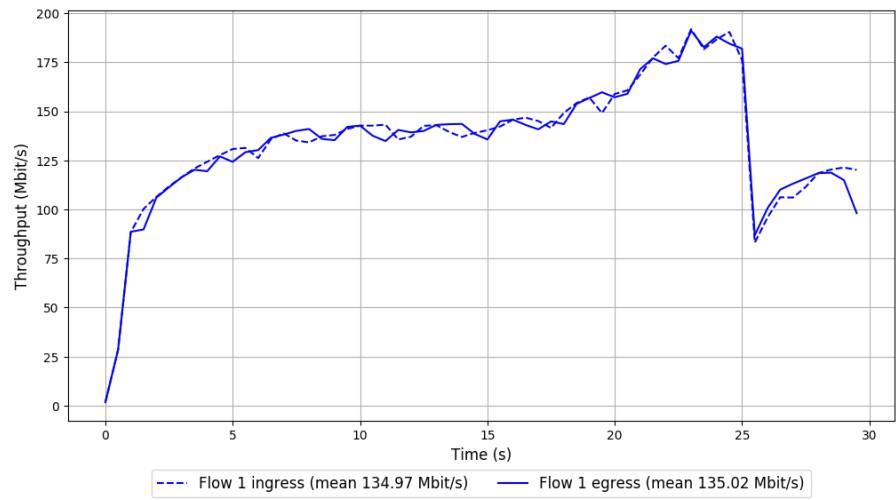
-- Flow 1:

Average throughput: 135.02 Mbit/s

95th percentile per-packet one-way delay: 68.461 ms

Loss rate: 0.38%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-20 10:09:52

End at: 2018-02-20 10:10:22

Below is generated by plot.py at 2018-02-20 14:21:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 139.78 Mbit/s

95th percentile per-packet one-way delay: 70.884 ms

Loss rate: 0.52%

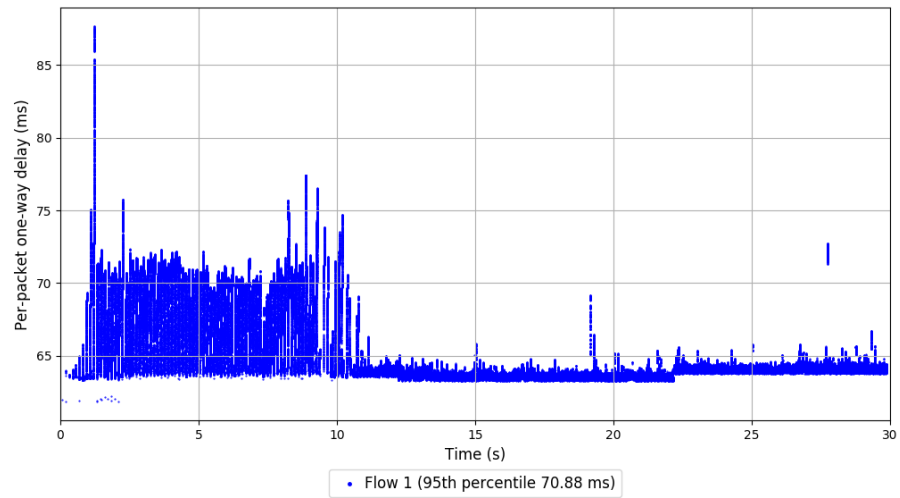
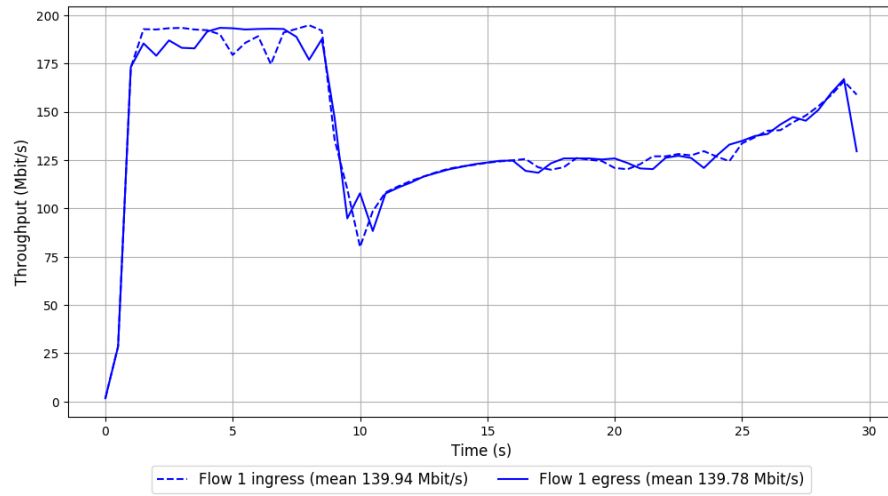
-- Flow 1:

Average throughput: 139.78 Mbit/s

95th percentile per-packet one-way delay: 70.884 ms

Loss rate: 0.52%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-20 10:24:27

End at: 2018-02-20 10:24:57

Below is generated by plot.py at 2018-02-20 14:21:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 137.70 Mbit/s

95th percentile per-packet one-way delay: 67.799 ms

Loss rate: 0.62%

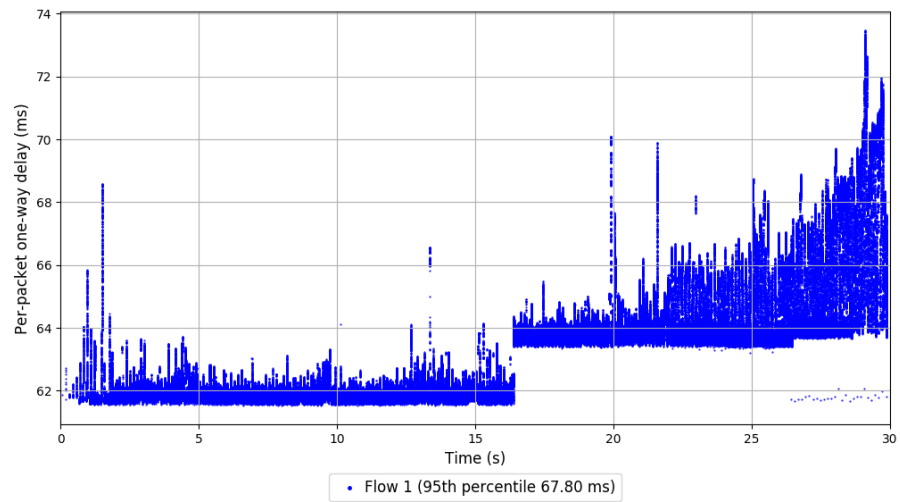
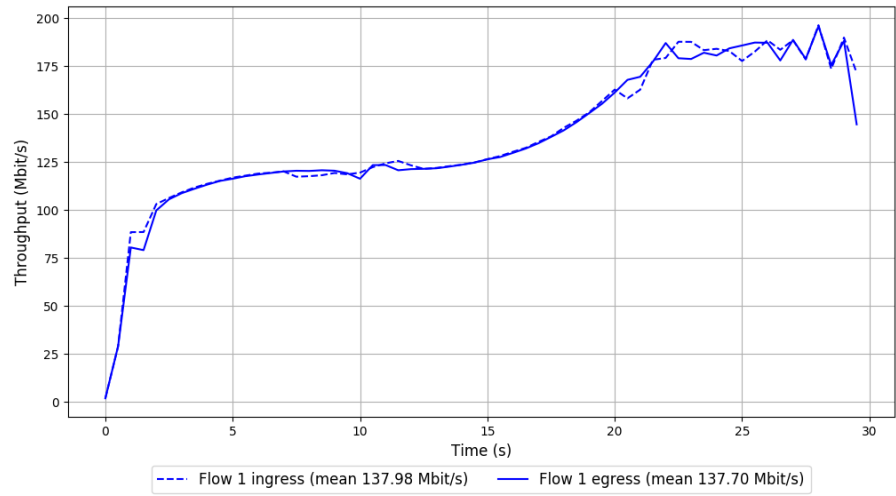
-- Flow 1:

Average throughput: 137.70 Mbit/s

95th percentile per-packet one-way delay: 67.799 ms

Loss rate: 0.62%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-20 10:38:58

End at: 2018-02-20 10:39:28

Below is generated by plot.py at 2018-02-20 14:22:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 118.33 Mbit/s

95th percentile per-packet one-way delay: 70.232 ms

Loss rate: 0.54%

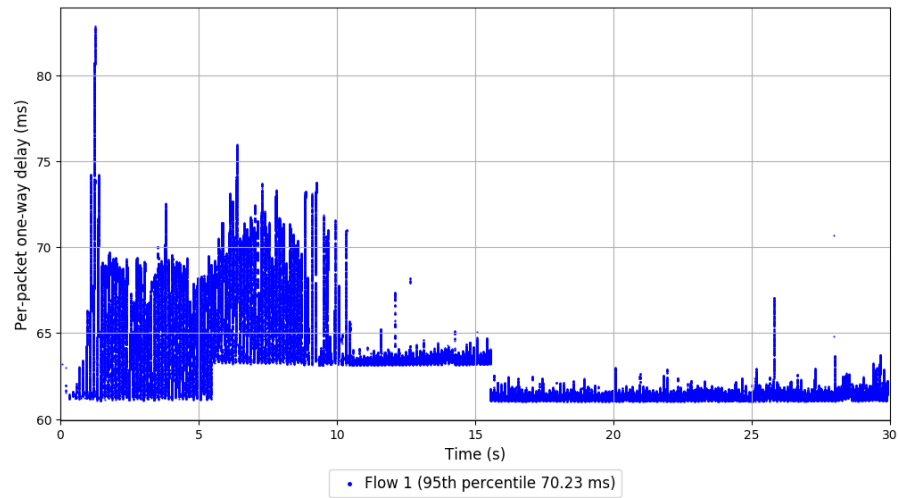
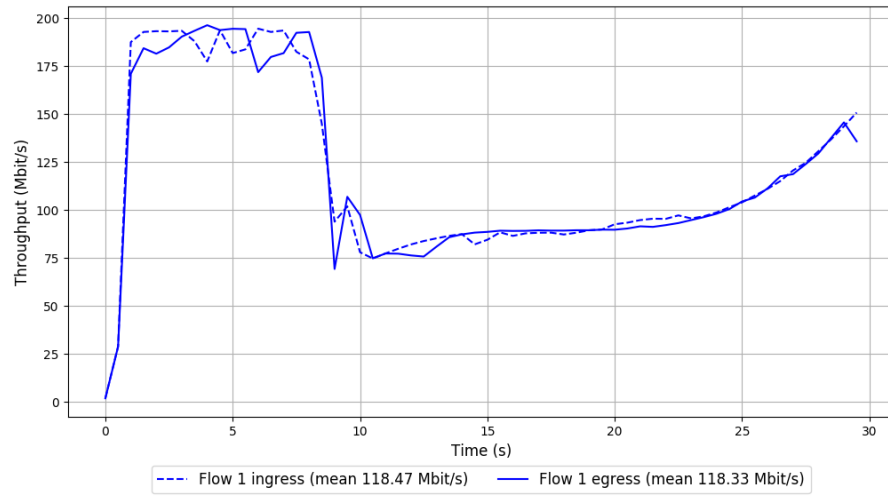
-- Flow 1:

Average throughput: 118.33 Mbit/s

95th percentile per-packet one-way delay: 70.232 ms

Loss rate: 0.54%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-20 10:53:39

End at: 2018-02-20 10:54:09

Below is generated by plot.py at 2018-02-20 14:22:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 132.65 Mbit/s

95th percentile per-packet one-way delay: 70.497 ms

Loss rate: 0.37%

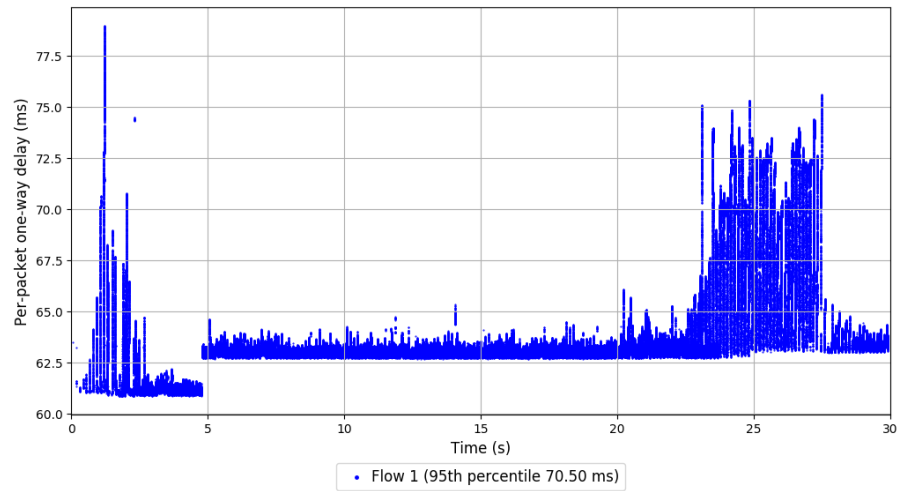
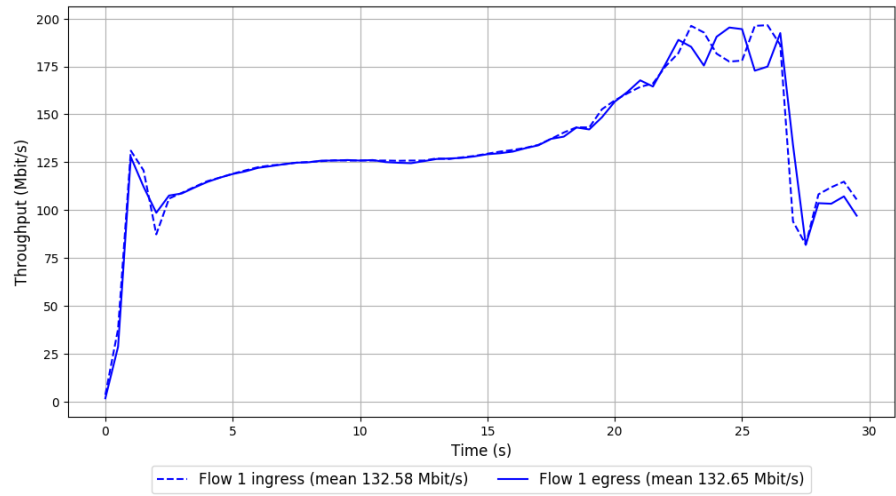
-- Flow 1:

Average throughput: 132.65 Mbit/s

95th percentile per-packet one-way delay: 70.497 ms

Loss rate: 0.37%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-20 11:08:21

End at: 2018-02-20 11:08:51

Below is generated by plot.py at 2018-02-20 14:23:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.55 Mbit/s

95th percentile per-packet one-way delay: 71.177 ms

Loss rate: 0.44%

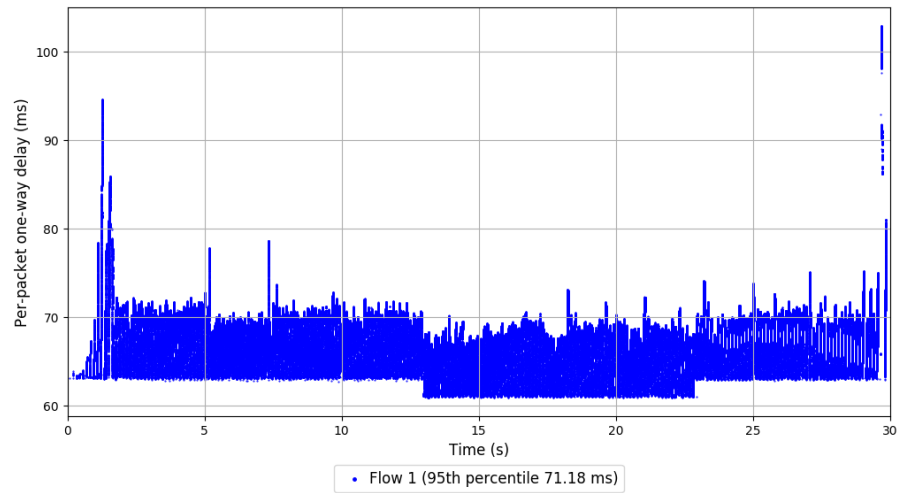
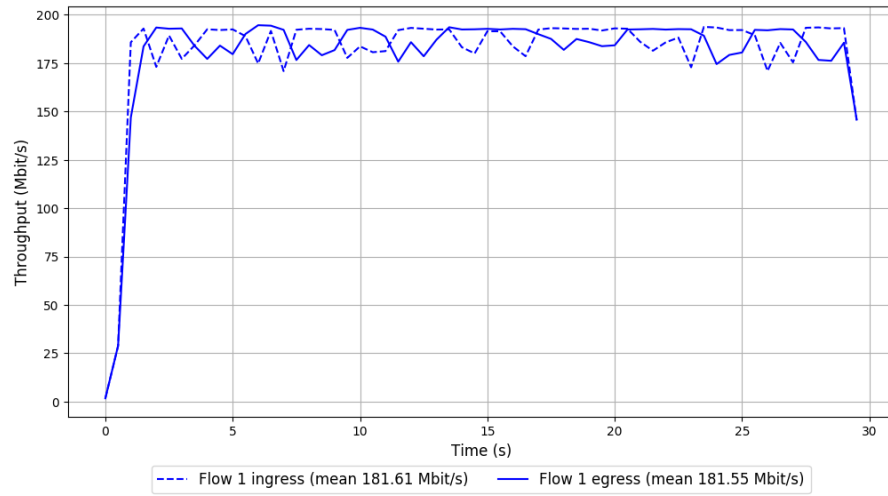
-- Flow 1:

Average throughput: 181.55 Mbit/s

95th percentile per-packet one-way delay: 71.177 ms

Loss rate: 0.44%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-20 11:22:53

End at: 2018-02-20 11:23:23

Below is generated by plot.py at 2018-02-20 14:23:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.08 Mbit/s

95th percentile per-packet one-way delay: 72.550 ms

Loss rate: 0.63%

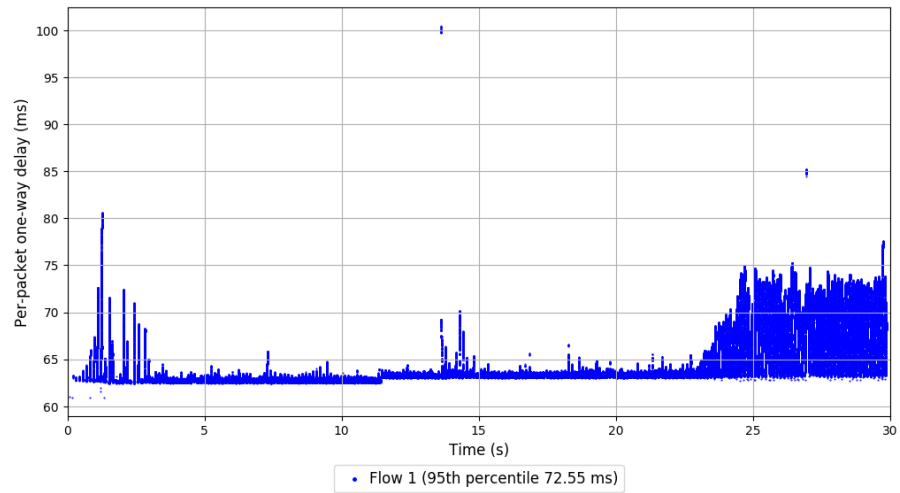
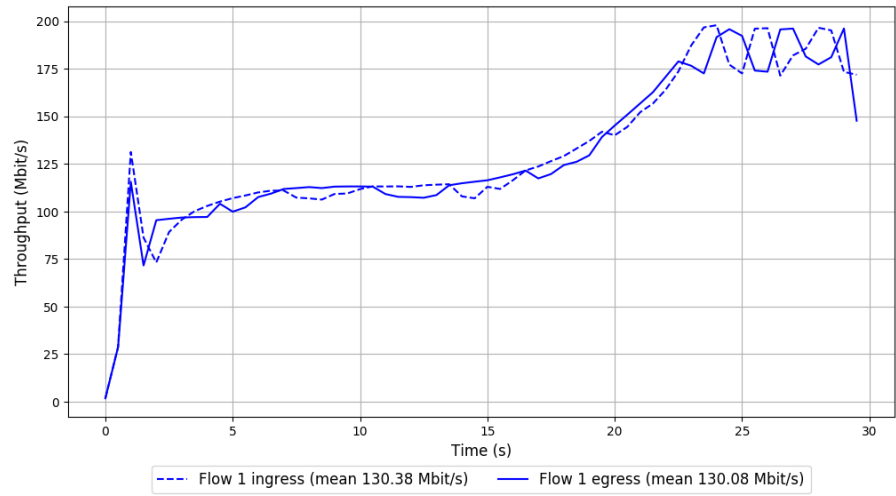
-- Flow 1:

Average throughput: 130.08 Mbit/s

95th percentile per-packet one-way delay: 72.550 ms

Loss rate: 0.63%

Run 10: Report of TCP Cubic — Data Link

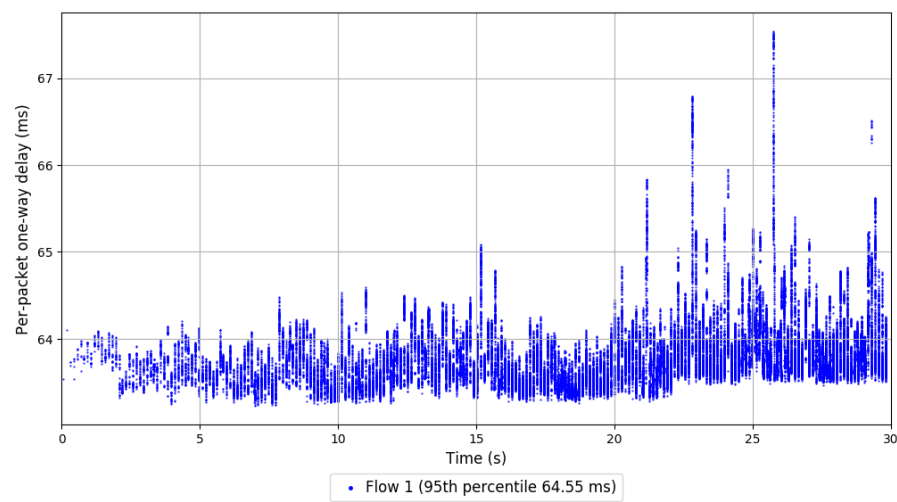
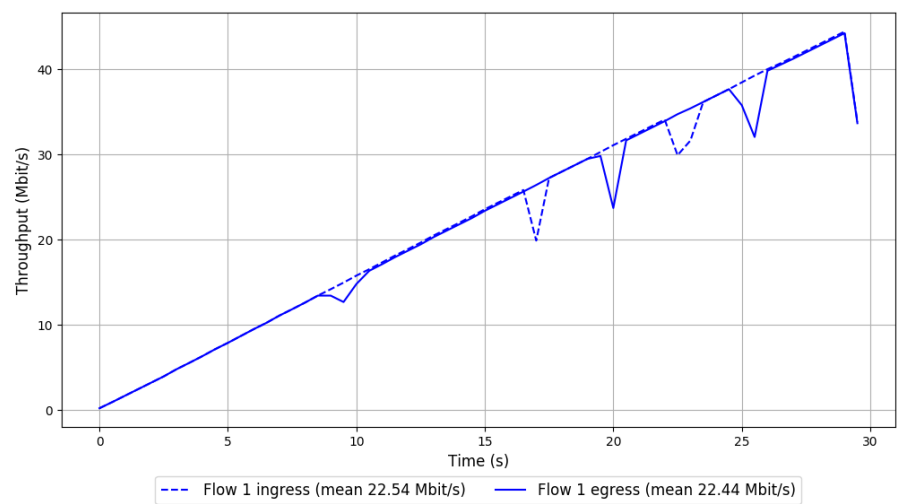


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-20 09:13:42
End at: 2018-02-20 09:14:12

# Below is generated by plot.py at 2018-02-20 14:23:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 22.44 Mbit/s
95th percentile per-packet one-way delay: 64.551 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 22.44 Mbit/s
95th percentile per-packet one-way delay: 64.551 ms
Loss rate: 0.84%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-02-20 09:28:19

End at: 2018-02-20 09:28:49

Below is generated by plot.py at 2018-02-20 14:23:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.58 Mbit/s

95th percentile per-packet one-way delay: 64.454 ms

Loss rate: 0.84%

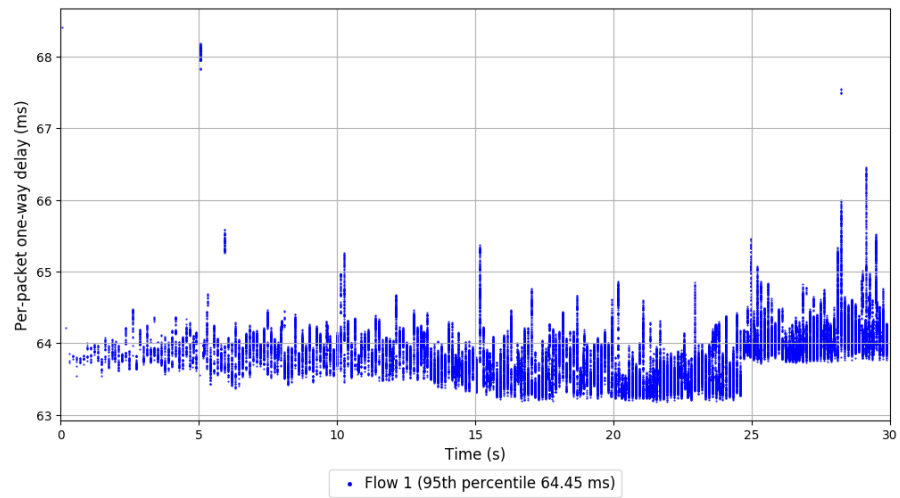
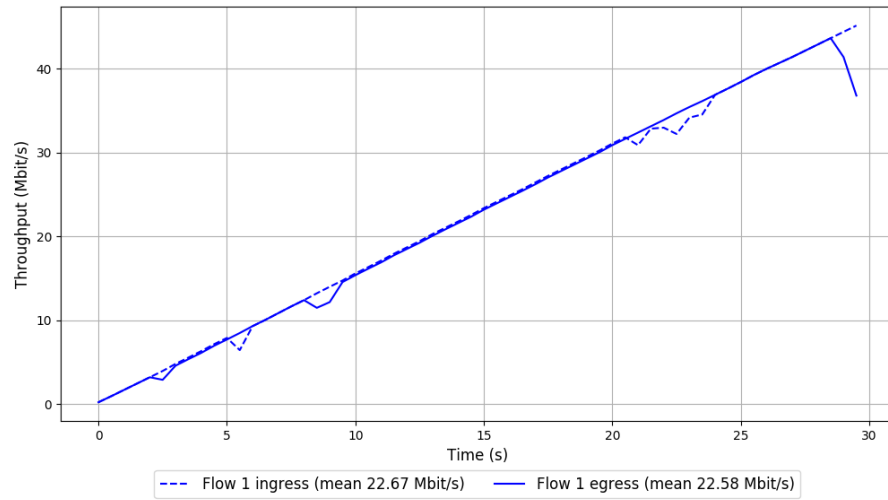
-- Flow 1:

Average throughput: 22.58 Mbit/s

95th percentile per-packet one-way delay: 64.454 ms

Loss rate: 0.84%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-20 09:43:02

End at: 2018-02-20 09:43:32

Below is generated by plot.py at 2018-02-20 14:23:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.68 Mbit/s

95th percentile per-packet one-way delay: 64.626 ms

Loss rate: 0.89%

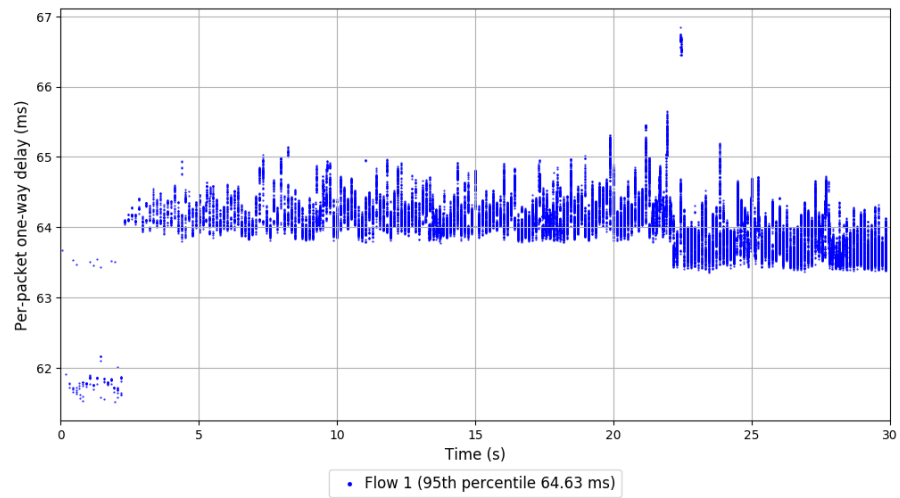
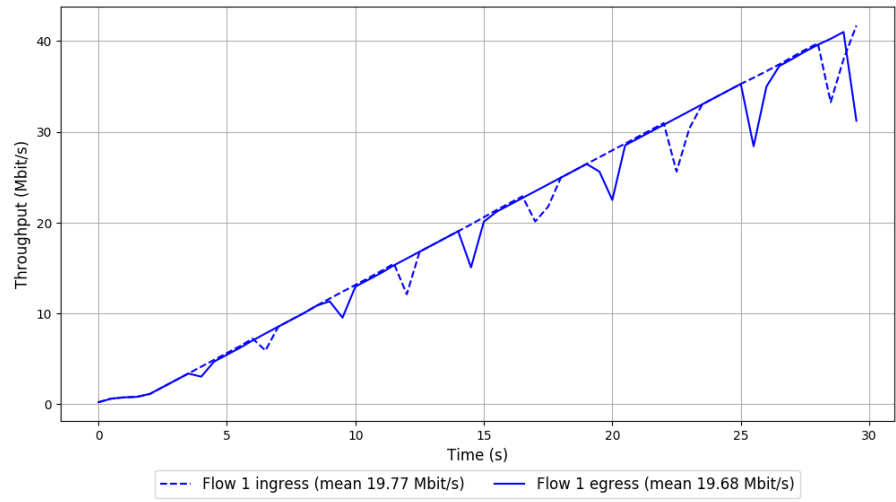
-- Flow 1:

Average throughput: 19.68 Mbit/s

95th percentile per-packet one-way delay: 64.626 ms

Loss rate: 0.89%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-20 09:57:32

End at: 2018-02-20 09:58:02

Below is generated by plot.py at 2018-02-20 14:23:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.22 Mbit/s

95th percentile per-packet one-way delay: 64.415 ms

Loss rate: 0.84%

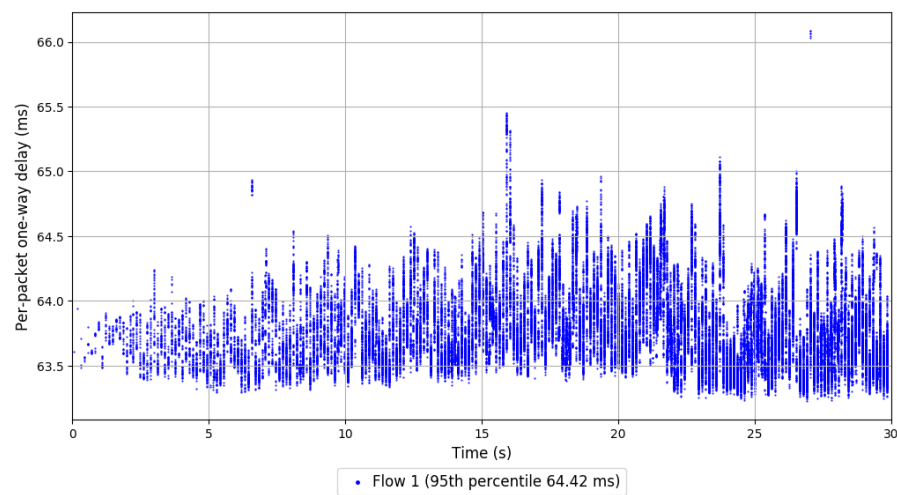
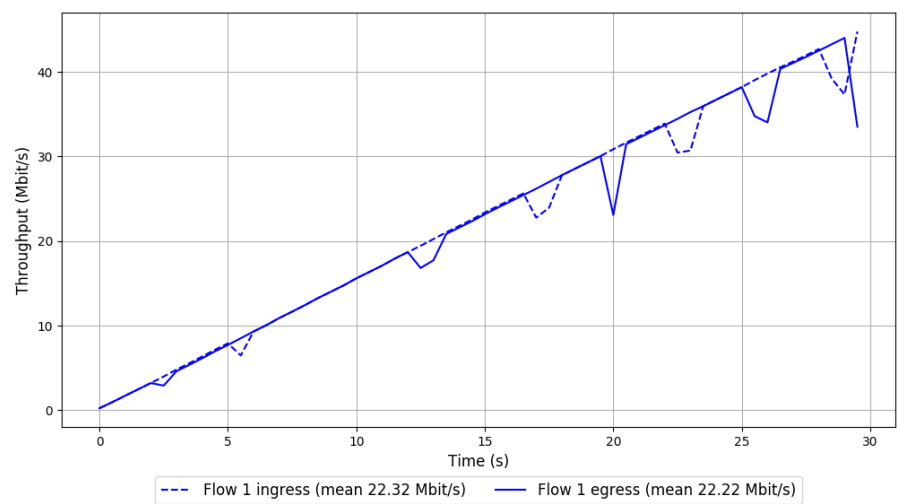
-- Flow 1:

Average throughput: 22.22 Mbit/s

95th percentile per-packet one-way delay: 64.415 ms

Loss rate: 0.84%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-20 10:12:16

End at: 2018-02-20 10:12:46

Below is generated by plot.py at 2018-02-20 14:23:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.56 Mbit/s

95th percentile per-packet one-way delay: 64.472 ms

Loss rate: 0.21%

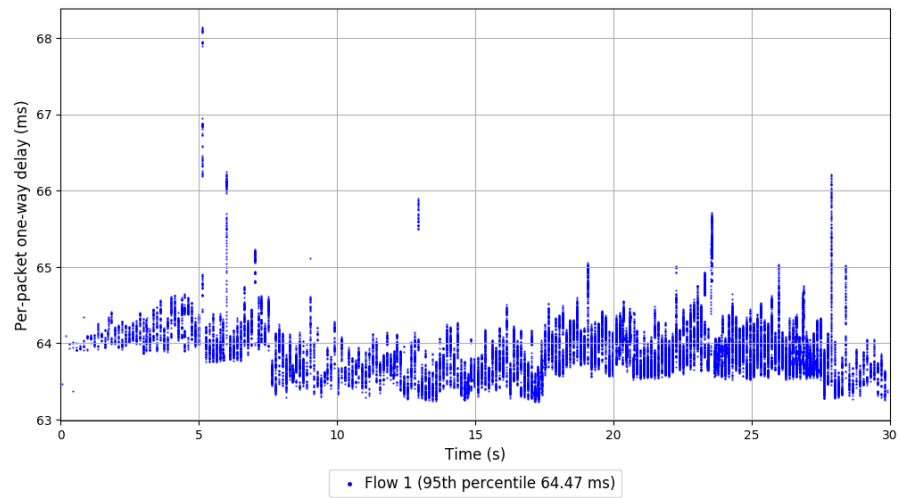
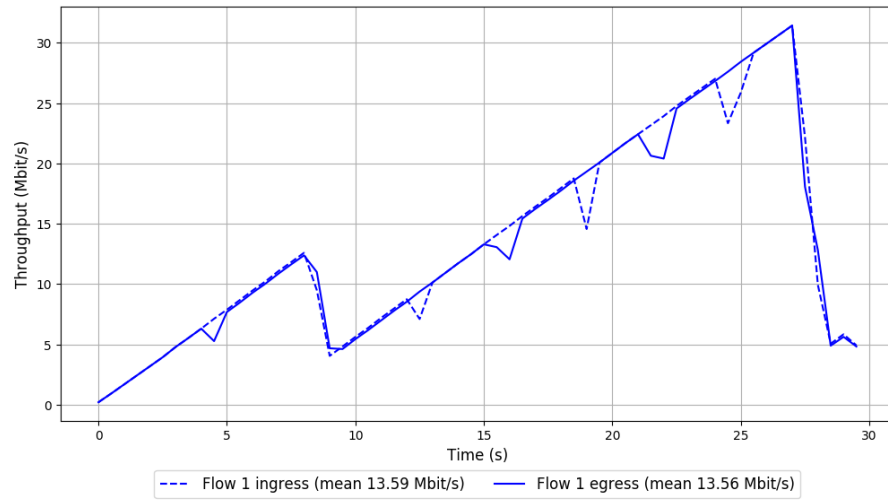
-- Flow 1:

Average throughput: 13.56 Mbit/s

95th percentile per-packet one-way delay: 64.472 ms

Loss rate: 0.21%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-20 10:26:43

End at: 2018-02-20 10:27:13

Below is generated by plot.py at 2018-02-20 14:23:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.23 Mbit/s

95th percentile per-packet one-way delay: 64.585 ms

Loss rate: 0.84%

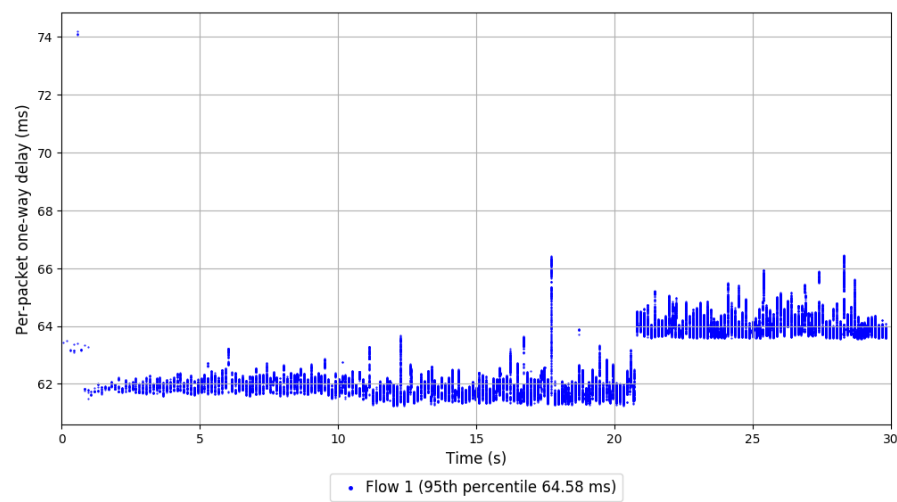
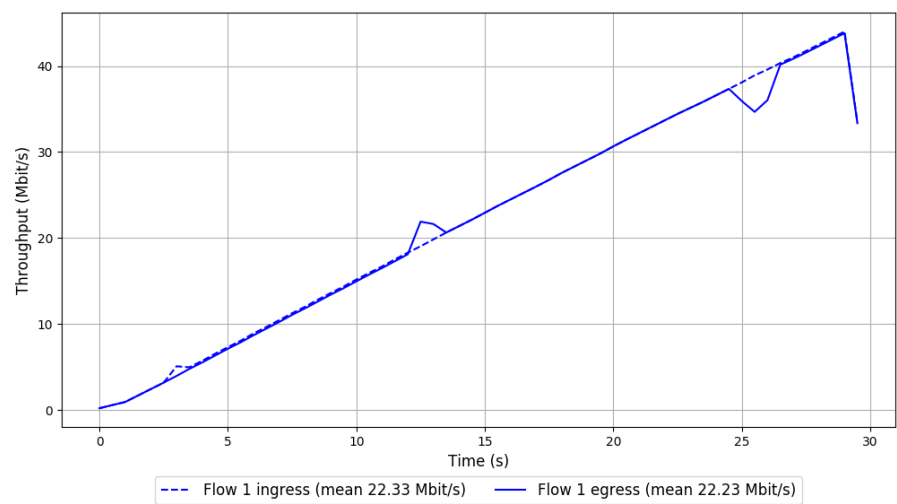
-- Flow 1:

Average throughput: 22.23 Mbit/s

95th percentile per-packet one-way delay: 64.585 ms

Loss rate: 0.84%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-20 10:41:15

End at: 2018-02-20 10:41:45

Below is generated by plot.py at 2018-02-20 14:23:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.97 Mbit/s

95th percentile per-packet one-way delay: 64.354 ms

Loss rate: 0.85%

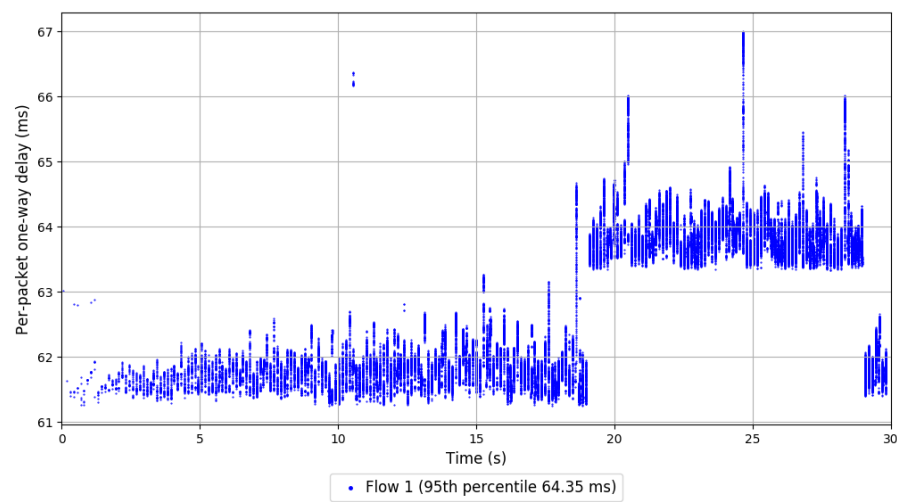
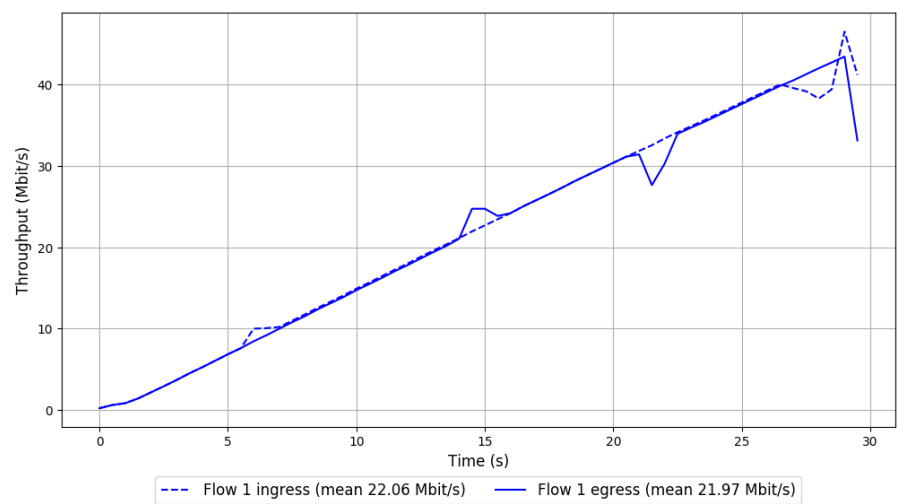
-- Flow 1:

Average throughput: 21.97 Mbit/s

95th percentile per-packet one-way delay: 64.354 ms

Loss rate: 0.85%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-20 10:55:59

End at: 2018-02-20 10:56:29

Below is generated by plot.py at 2018-02-20 14:23:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.15 Mbit/s

95th percentile per-packet one-way delay: 63.771 ms

Loss rate: 0.86%

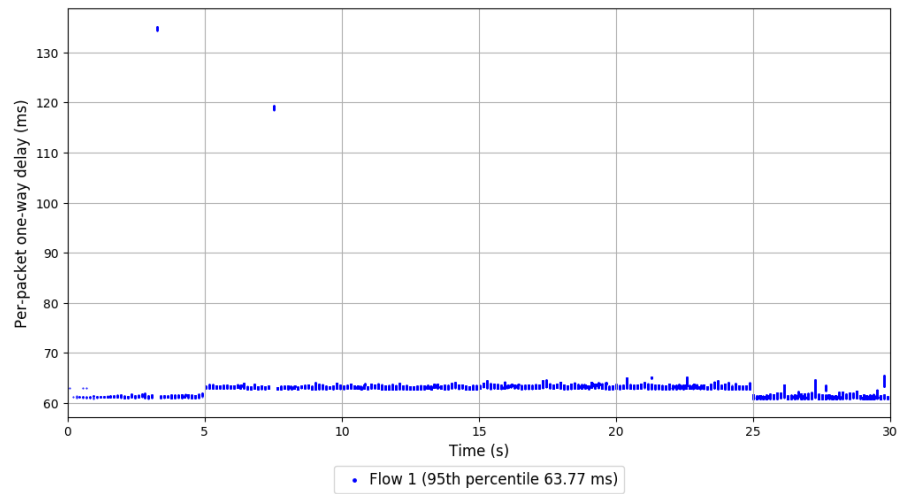
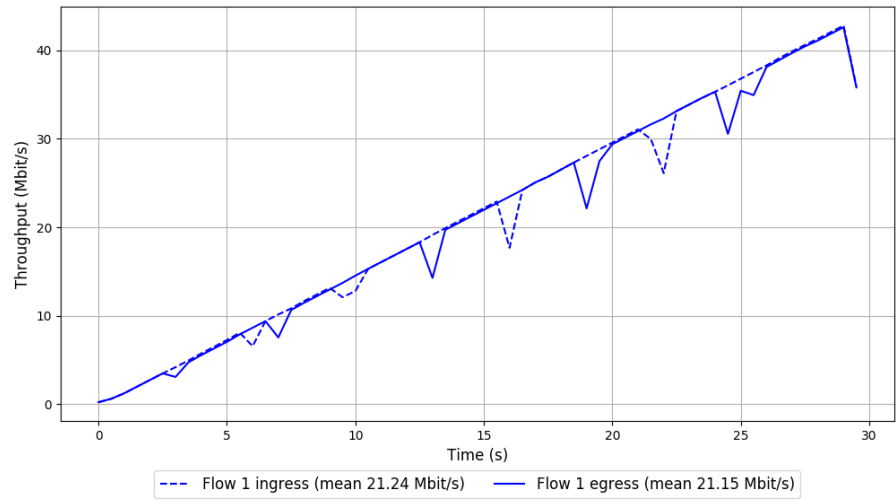
-- Flow 1:

Average throughput: 21.15 Mbit/s

95th percentile per-packet one-way delay: 63.771 ms

Loss rate: 0.86%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-20 11:10:40

End at: 2018-02-20 11:11:10

Below is generated by plot.py at 2018-02-20 14:23:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.38 Mbit/s

95th percentile per-packet one-way delay: 63.563 ms

Loss rate: 0.32%

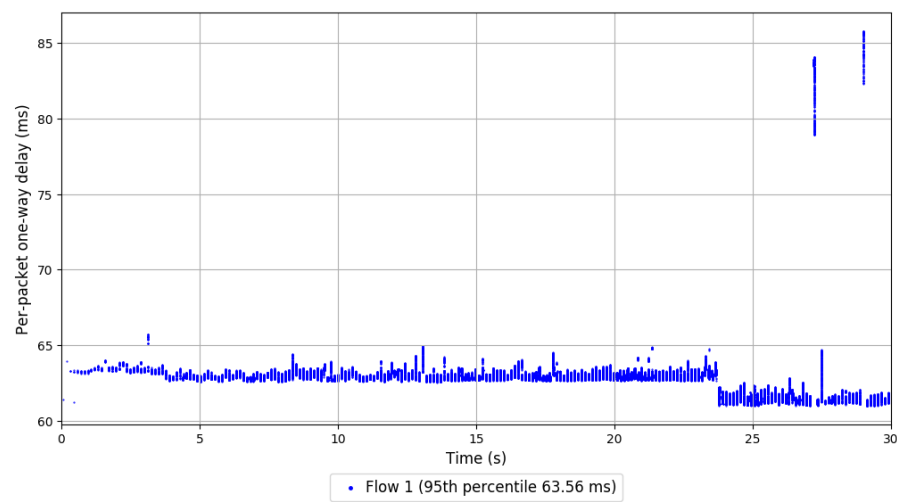
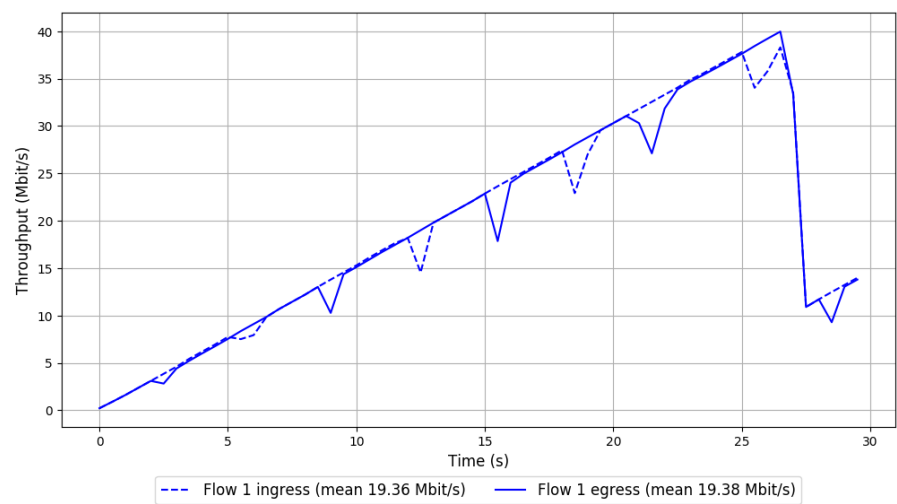
-- Flow 1:

Average throughput: 19.38 Mbit/s

95th percentile per-packet one-way delay: 63.563 ms

Loss rate: 0.32%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-20 11:25:14

End at: 2018-02-20 11:25:44

Below is generated by plot.py at 2018-02-20 14:23:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.64 Mbit/s

95th percentile per-packet one-way delay: 63.687 ms

Loss rate: 0.84%

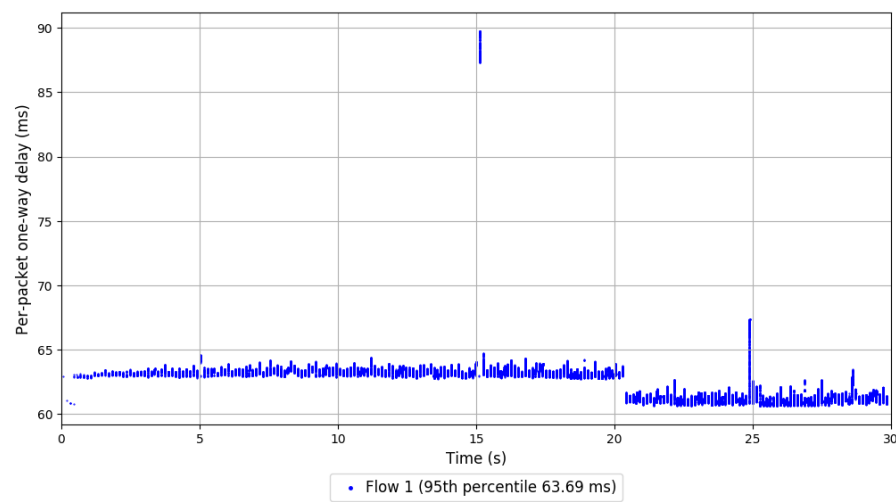
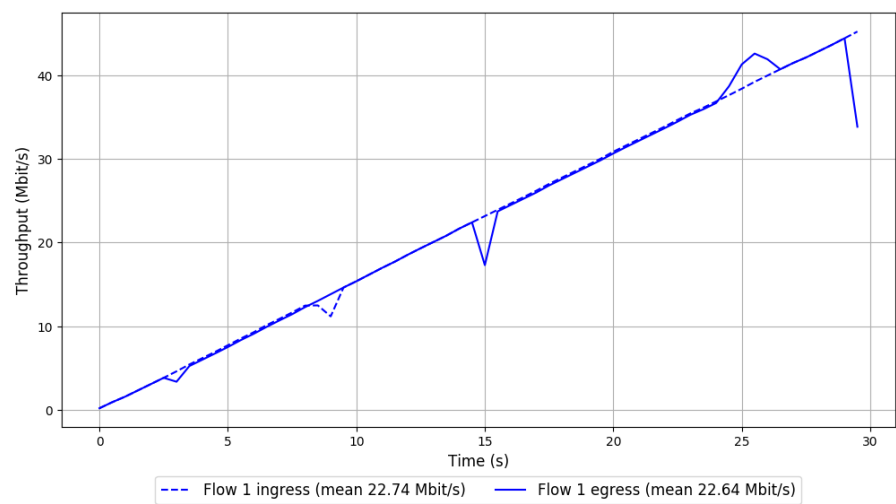
-- Flow 1:

Average throughput: 22.64 Mbit/s

95th percentile per-packet one-way delay: 63.687 ms

Loss rate: 0.84%

Run 10: Report of LEDBAT — Data Link

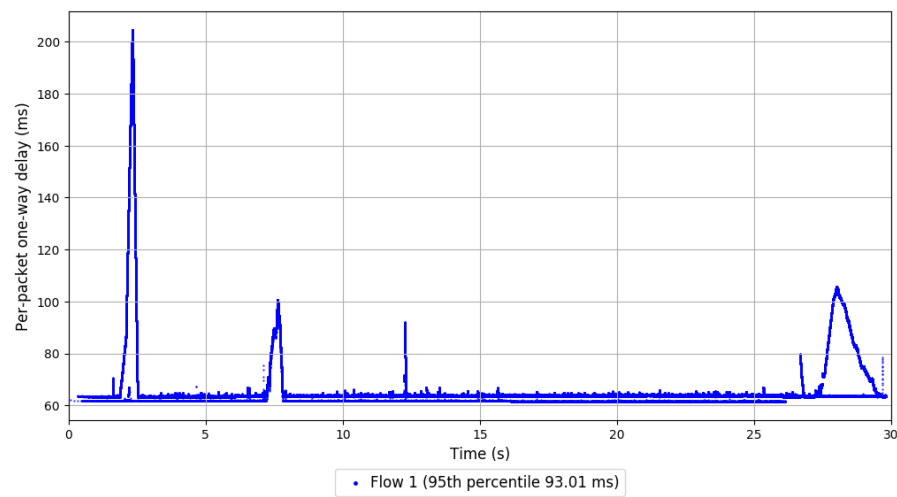
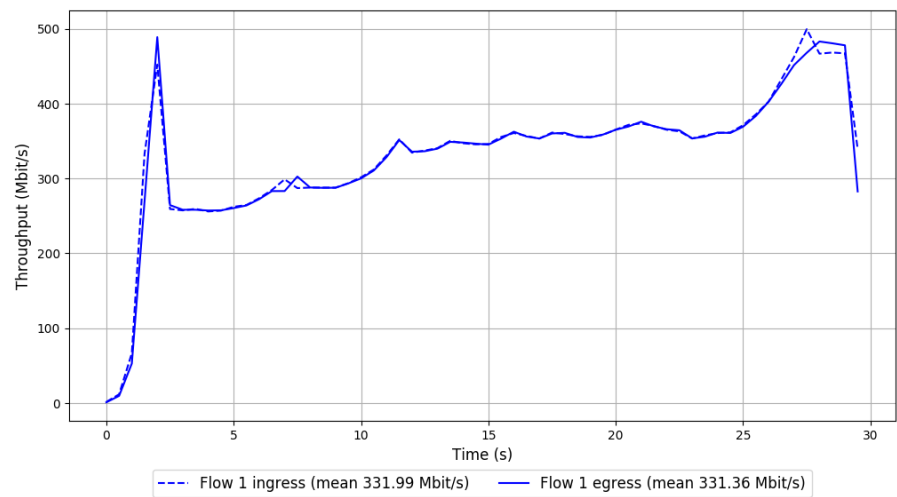


```
Run 1: Statistics of PCC

Start at: 2018-02-20 09:15:18
End at: 2018-02-20 09:15:48

# Below is generated by plot.py at 2018-02-20 14:27:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 331.36 Mbit/s
95th percentile per-packet one-way delay: 93.007 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 331.36 Mbit/s
95th percentile per-packet one-way delay: 93.007 ms
Loss rate: 0.61%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-20 09:29:58

End at: 2018-02-20 09:30:28

Below is generated by plot.py at 2018-02-20 14:29:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 463.01 Mbit/s

95th percentile per-packet one-way delay: 203.624 ms

Loss rate: 1.07%

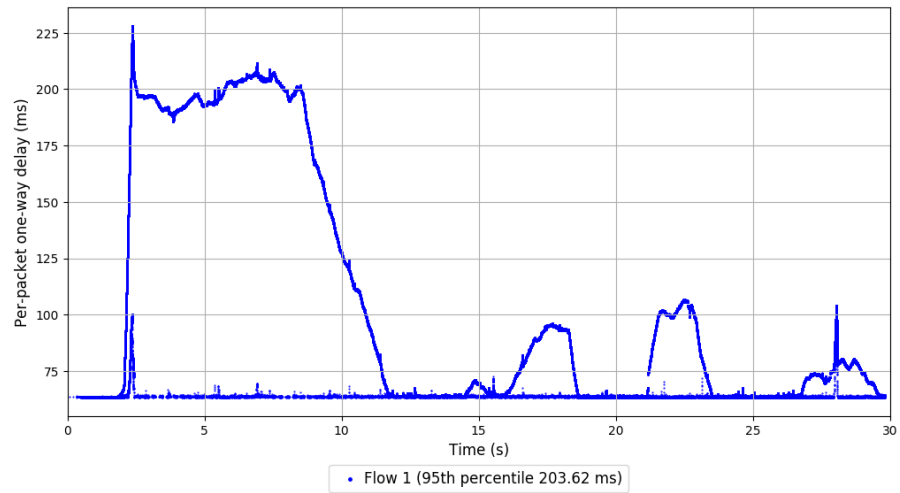
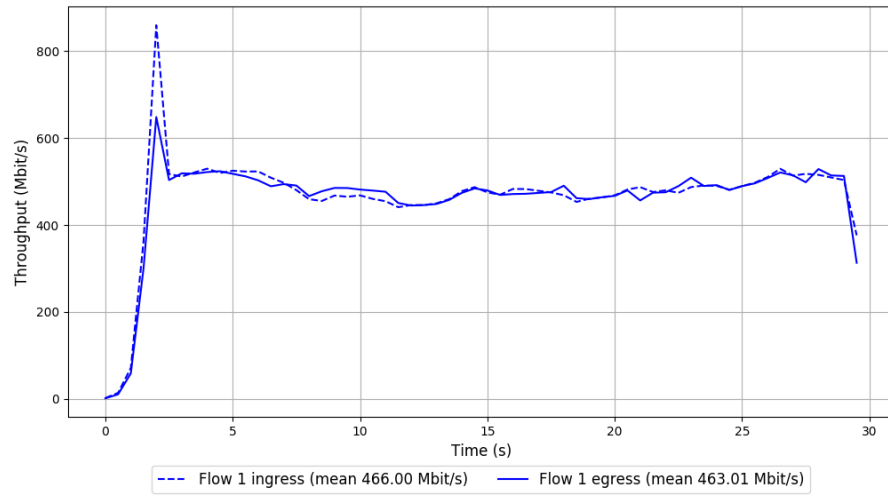
-- Flow 1:

Average throughput: 463.01 Mbit/s

95th percentile per-packet one-way delay: 203.624 ms

Loss rate: 1.07%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-20 09:44:41

End at: 2018-02-20 09:45:11

Below is generated by plot.py at 2018-02-20 14:29:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 395.57 Mbit/s

95th percentile per-packet one-way delay: 85.091 ms

Loss rate: 0.48%

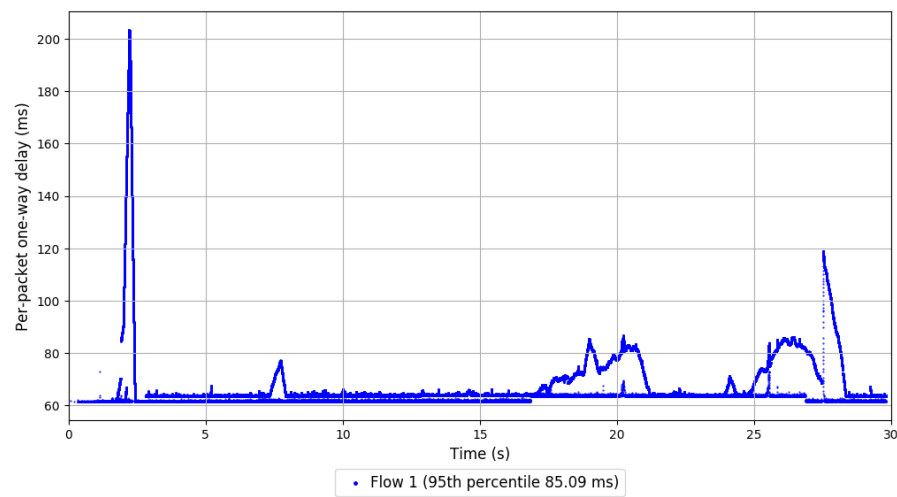
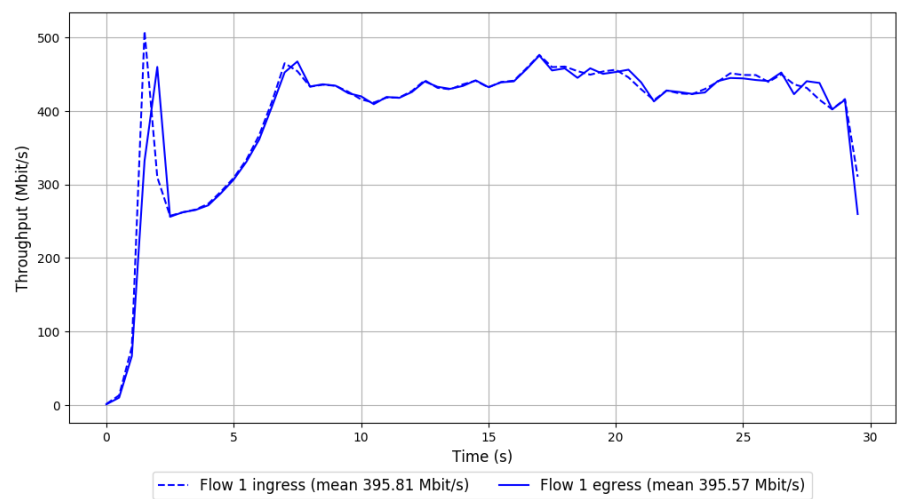
-- Flow 1:

Average throughput: 395.57 Mbit/s

95th percentile per-packet one-way delay: 85.091 ms

Loss rate: 0.48%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-20 09:59:07

End at: 2018-02-20 09:59:37

Below is generated by plot.py at 2018-02-20 14:29:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 402.56 Mbit/s

95th percentile per-packet one-way delay: 99.837 ms

Loss rate: 0.80%

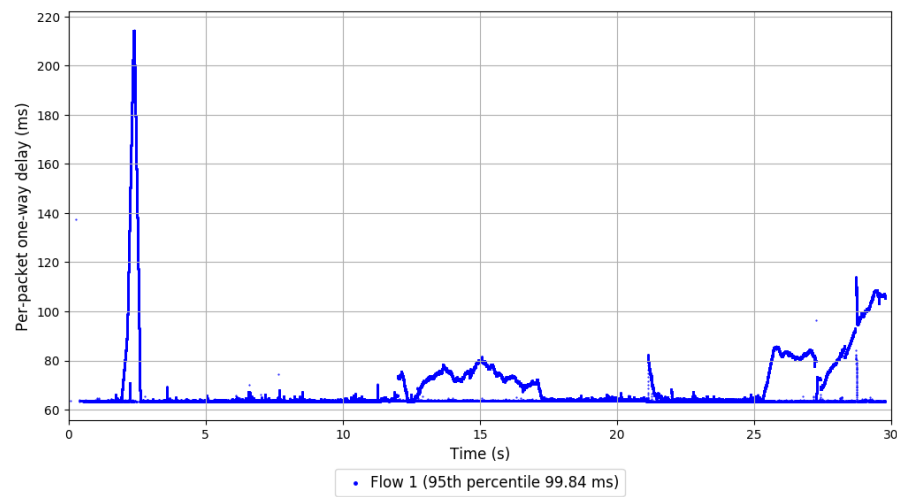
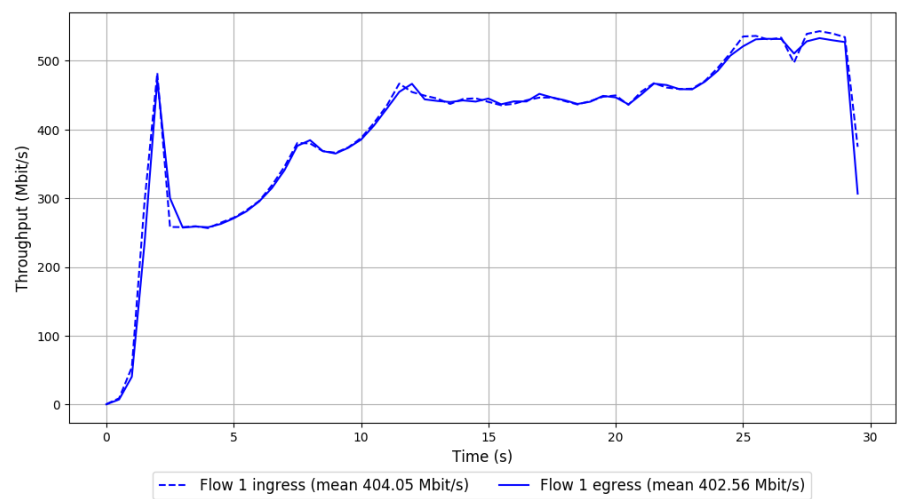
-- Flow 1:

Average throughput: 402.56 Mbit/s

95th percentile per-packet one-way delay: 99.837 ms

Loss rate: 0.80%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-20 10:13:50

End at: 2018-02-20 10:14:20

Below is generated by plot.py at 2018-02-20 14:29:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 415.88 Mbit/s

95th percentile per-packet one-way delay: 88.738 ms

Loss rate: 0.48%

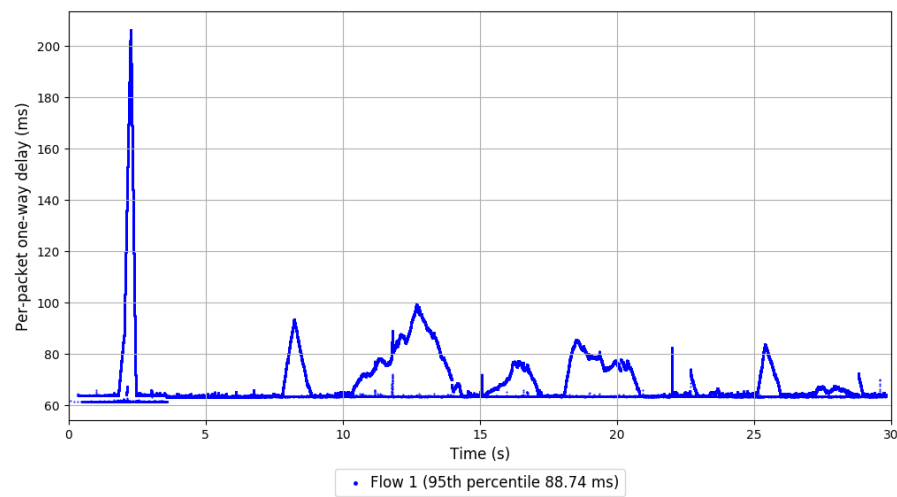
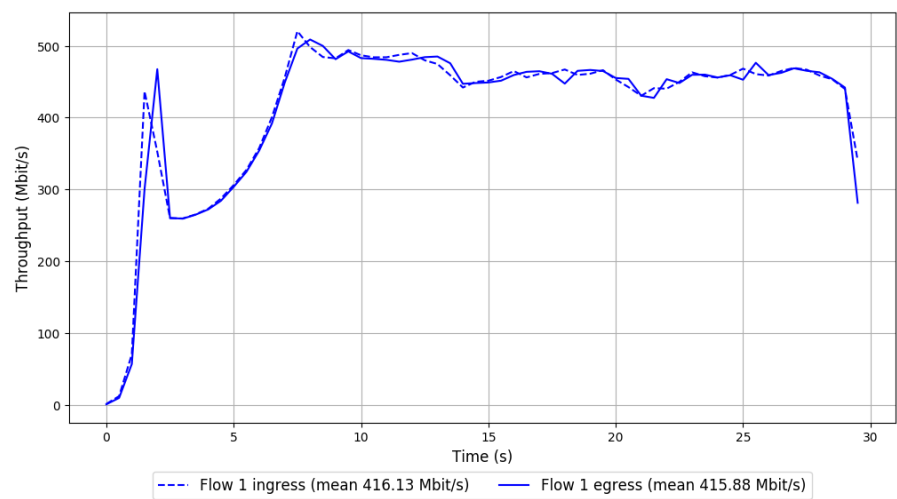
-- Flow 1:

Average throughput: 415.88 Mbit/s

95th percentile per-packet one-way delay: 88.738 ms

Loss rate: 0.48%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-20 10:28:18

End at: 2018-02-20 10:28:48

Below is generated by plot.py at 2018-02-20 14:30:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 464.44 Mbit/s

95th percentile per-packet one-way delay: 216.332 ms

Loss rate: 3.16%

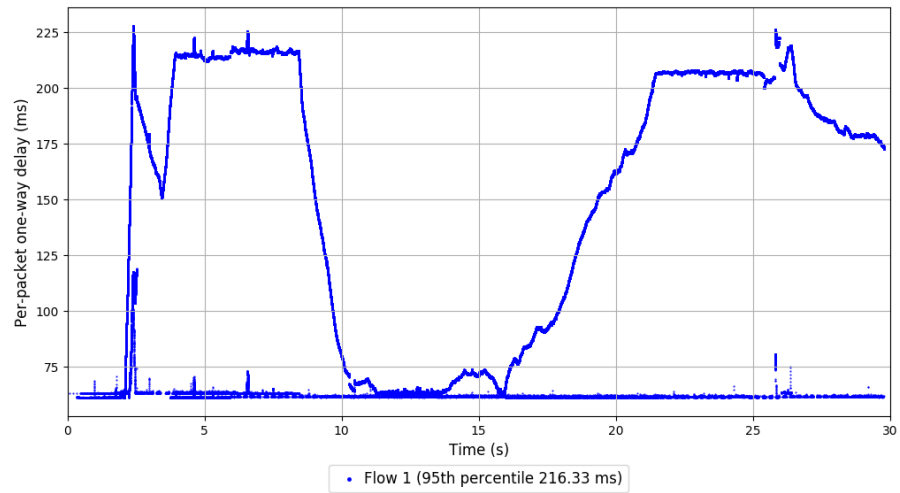
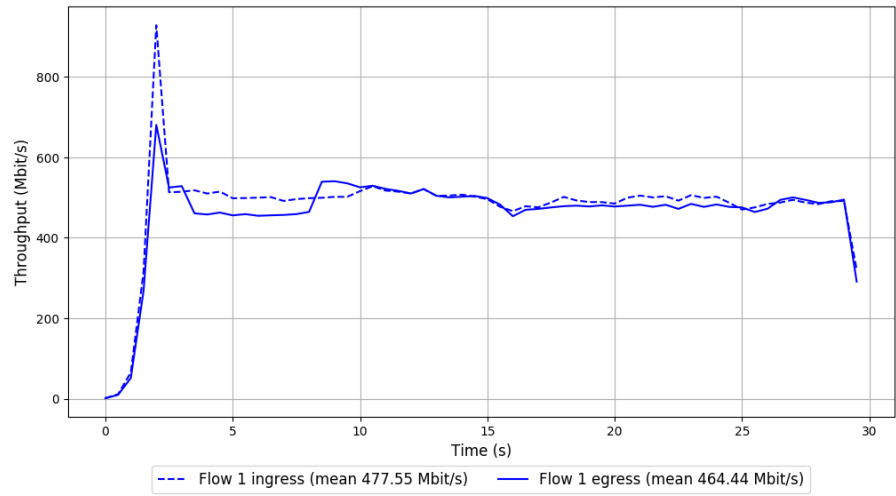
-- Flow 1:

Average throughput: 464.44 Mbit/s

95th percentile per-packet one-way delay: 216.332 ms

Loss rate: 3.16%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-20 10:42:55

End at: 2018-02-20 10:43:25

Below is generated by plot.py at 2018-02-20 14:30:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 401.76 Mbit/s

95th percentile per-packet one-way delay: 150.990 ms

Loss rate: 0.55%

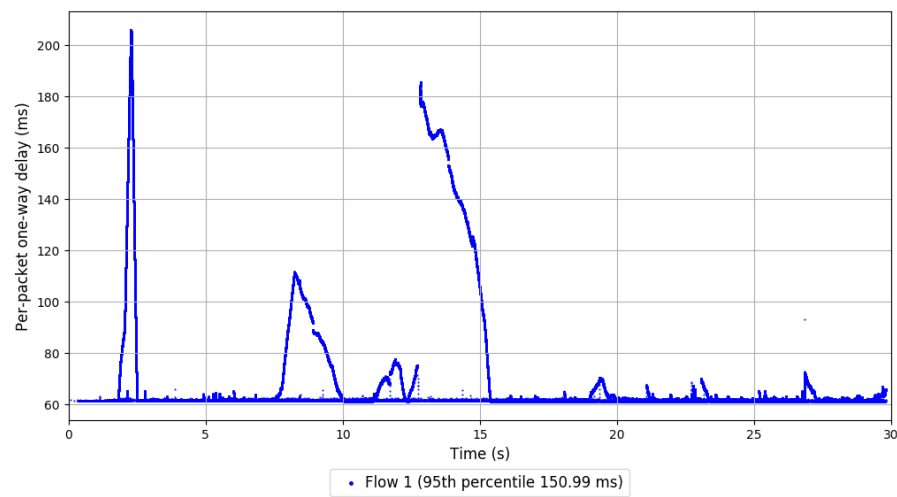
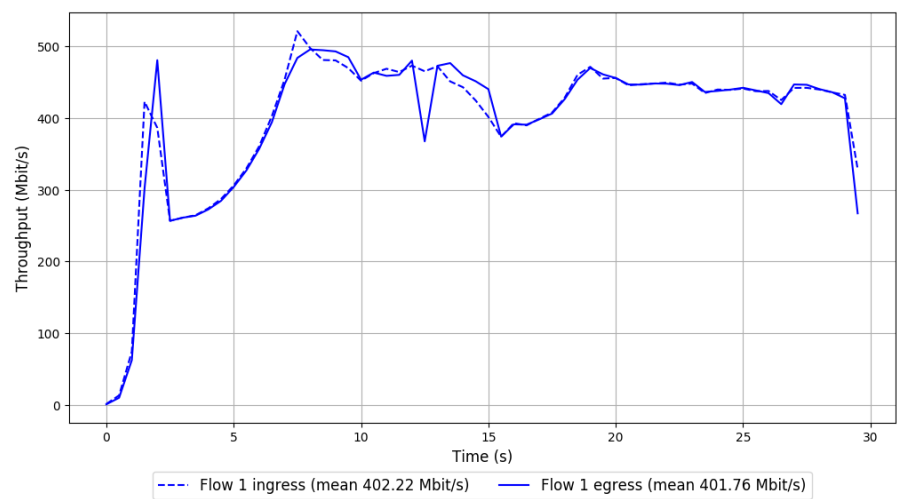
-- Flow 1:

Average throughput: 401.76 Mbit/s

95th percentile per-packet one-way delay: 150.990 ms

Loss rate: 0.55%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-20 10:57:36

End at: 2018-02-20 10:58:06

Below is generated by plot.py at 2018-02-20 14:30:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 369.14 Mbit/s

95th percentile per-packet one-way delay: 156.284 ms

Loss rate: 2.29%

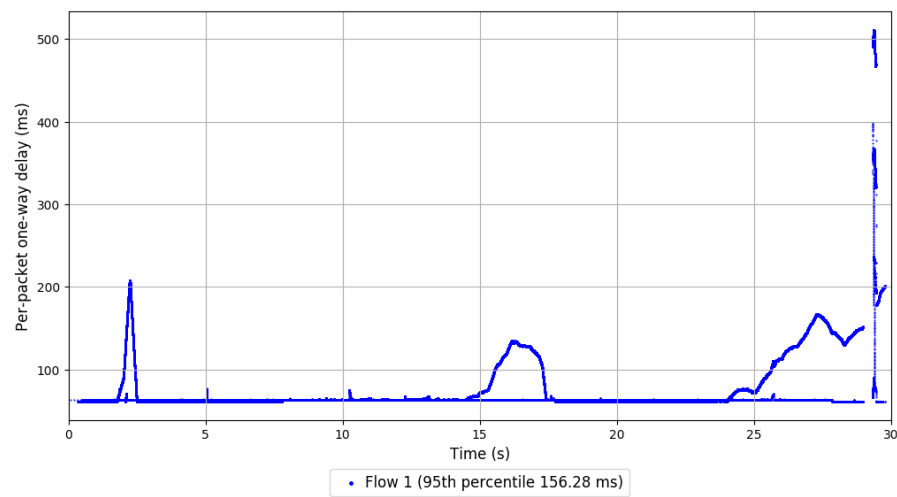
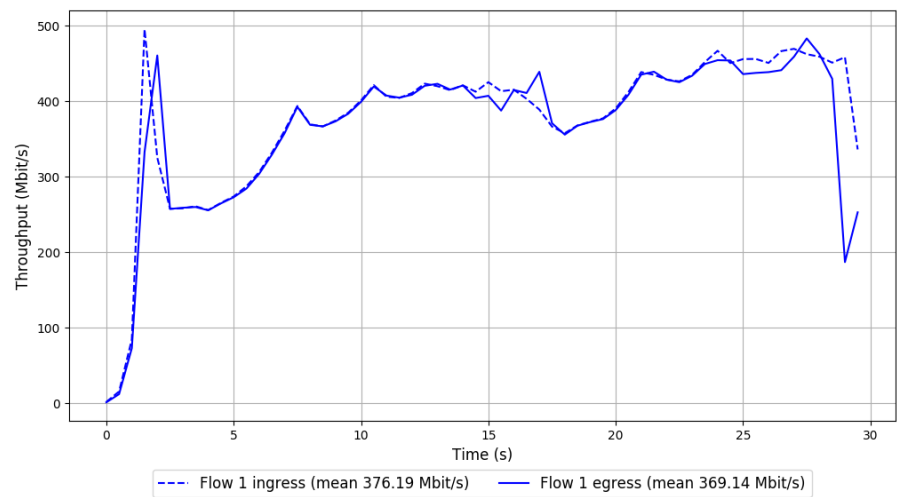
-- Flow 1:

Average throughput: 369.14 Mbit/s

95th percentile per-packet one-way delay: 156.284 ms

Loss rate: 2.29%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-20 11:12:22

End at: 2018-02-20 11:12:52

Below is generated by plot.py at 2018-02-20 14:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 452.40 Mbit/s

95th percentile per-packet one-way delay: 189.813 ms

Loss rate: 1.01%

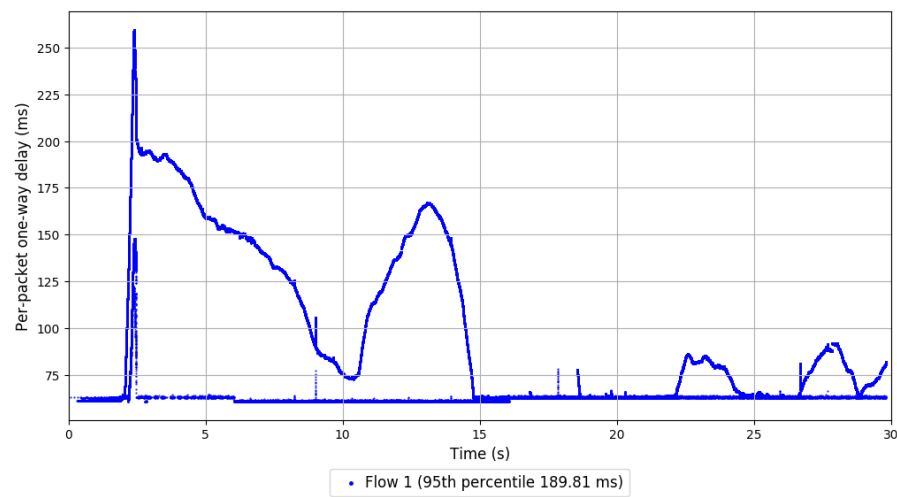
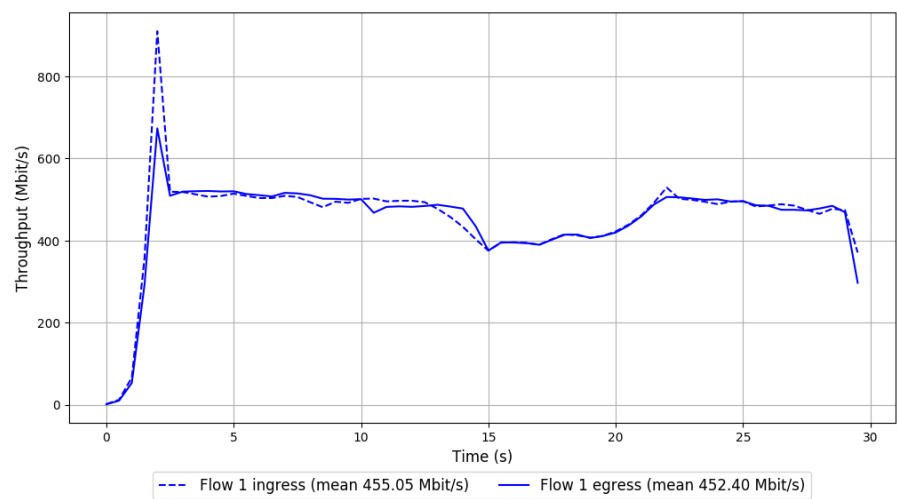
-- Flow 1:

Average throughput: 452.40 Mbit/s

95th percentile per-packet one-way delay: 189.813 ms

Loss rate: 1.01%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-20 11:26:56

End at: 2018-02-20 11:27:26

Below is generated by plot.py at 2018-02-20 14:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 333.21 Mbit/s

95th percentile per-packet one-way delay: 117.552 ms

Loss rate: 0.96%

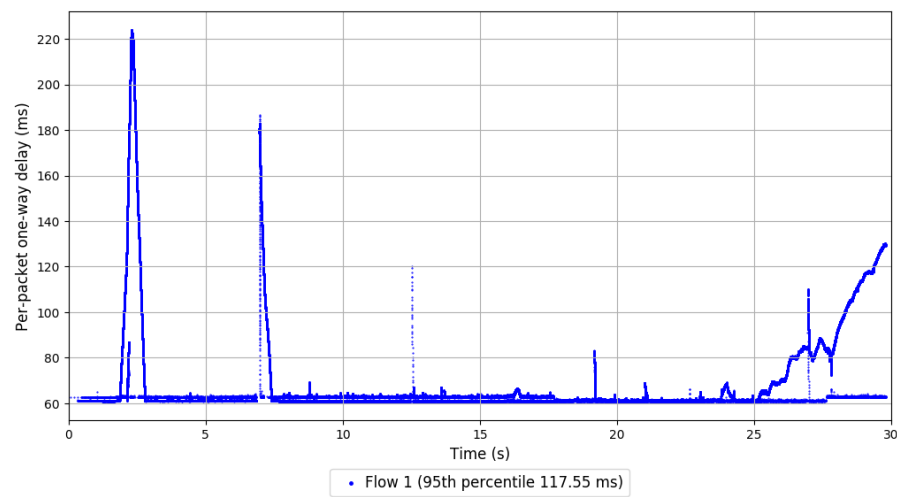
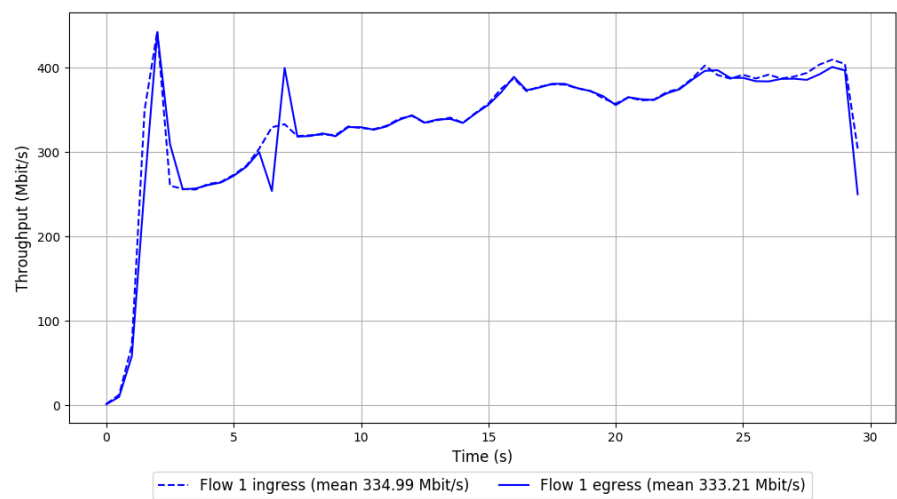
-- Flow 1:

Average throughput: 333.21 Mbit/s

95th percentile per-packet one-way delay: 117.552 ms

Loss rate: 0.96%

Run 10: Report of PCC — Data Link

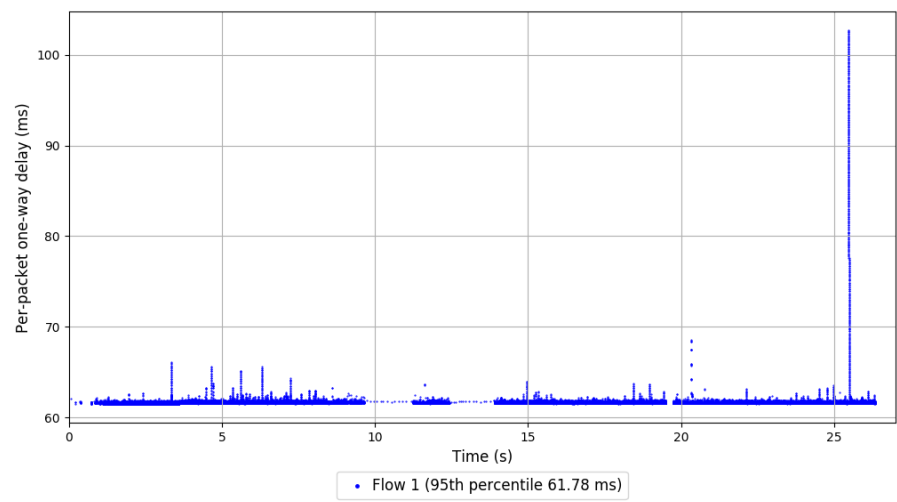
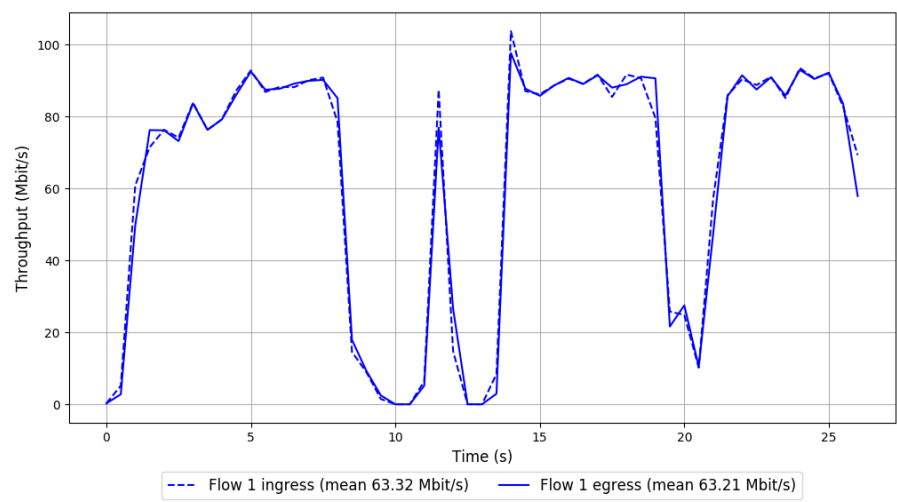


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-02-20 09:20:57
End at: 2018-02-20 09:21:27

# Below is generated by plot.py at 2018-02-20 14:35:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.21 Mbit/s
95th percentile per-packet one-way delay: 61.782 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 63.21 Mbit/s
95th percentile per-packet one-way delay: 61.782 ms
Loss rate: 0.65%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-20 09:35:44

End at: 2018-02-20 09:36:14

Below is generated by plot.py at 2018-02-20 14:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.08 Mbit/s

95th percentile per-packet one-way delay: 63.445 ms

Loss rate: 0.66%

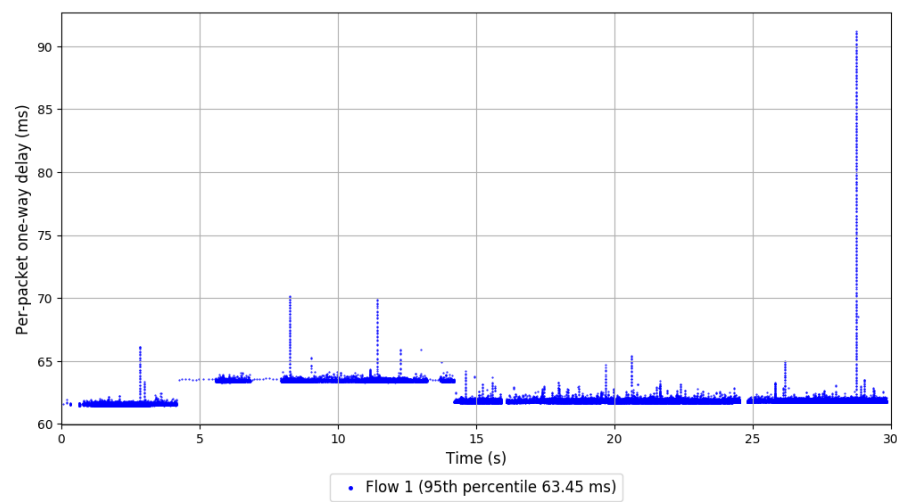
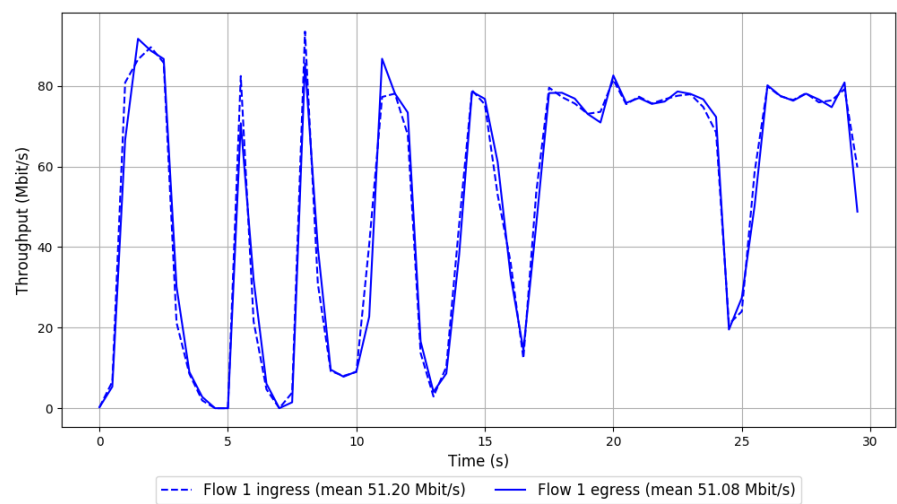
-- Flow 1:

Average throughput: 51.08 Mbit/s

95th percentile per-packet one-way delay: 63.445 ms

Loss rate: 0.66%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-20 09:50:22

End at: 2018-02-20 09:50:52

Below is generated by plot.py at 2018-02-20 14:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.94 Mbit/s

95th percentile per-packet one-way delay: 63.788 ms

Loss rate: 0.67%

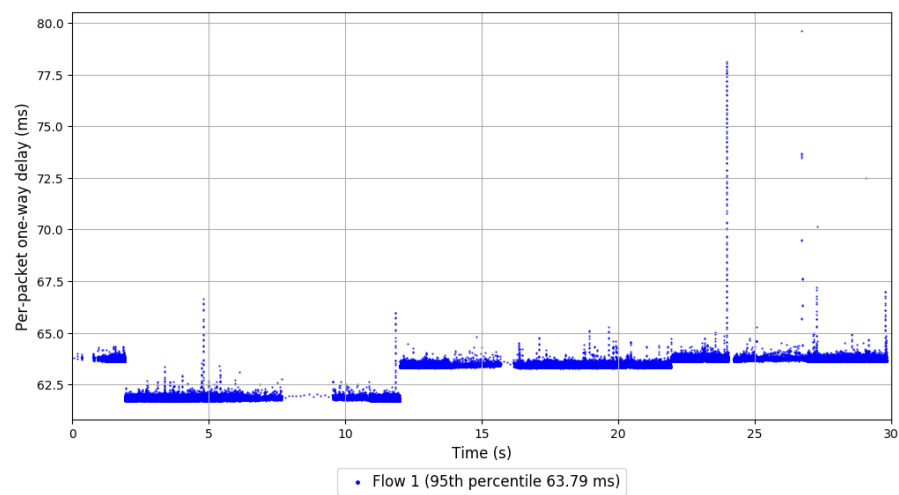
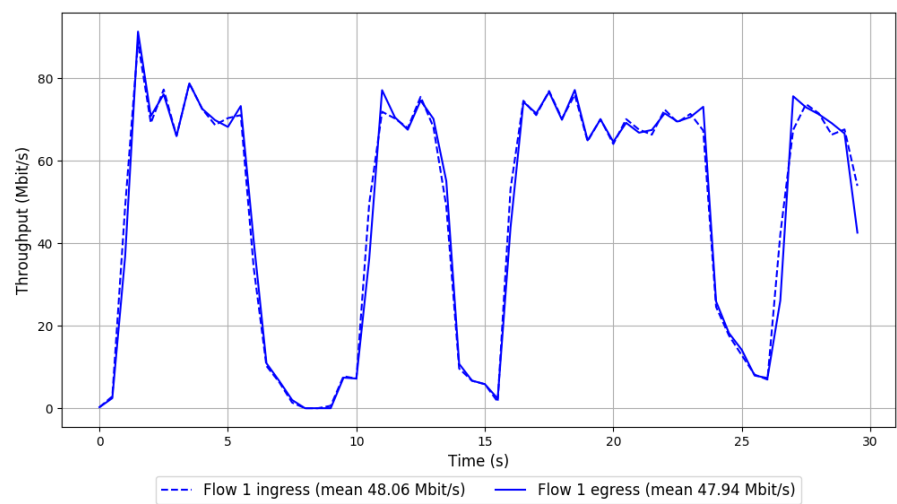
-- Flow 1:

Average throughput: 47.94 Mbit/s

95th percentile per-packet one-way delay: 63.788 ms

Loss rate: 0.67%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-20 10:04:43

End at: 2018-02-20 10:05:13

Below is generated by plot.py at 2018-02-20 14:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.86 Mbit/s

95th percentile per-packet one-way delay: 63.611 ms

Loss rate: 0.53%

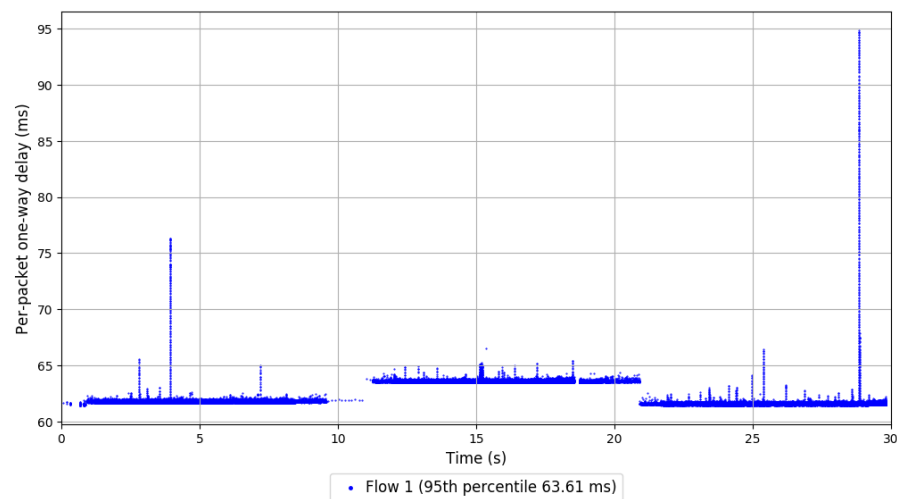
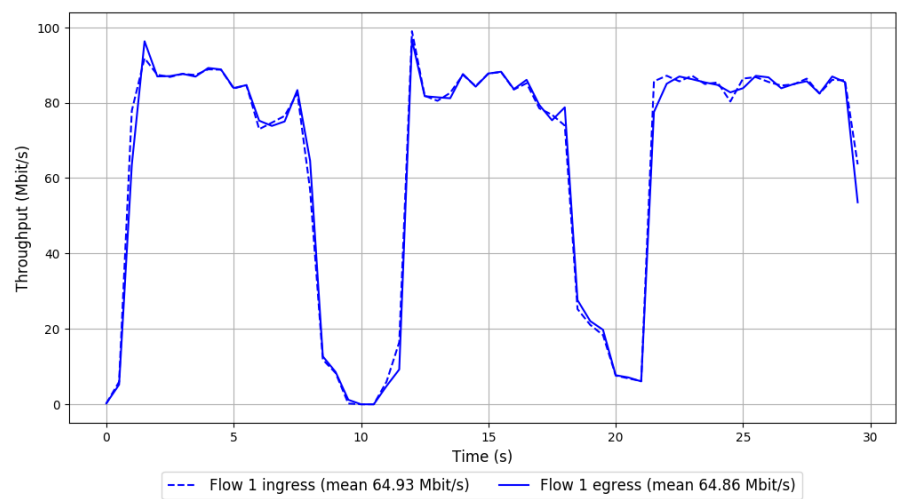
-- Flow 1:

Average throughput: 64.86 Mbit/s

95th percentile per-packet one-way delay: 63.611 ms

Loss rate: 0.53%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-20 10:19:33

End at: 2018-02-20 10:20:03

Below is generated by plot.py at 2018-02-20 14:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.37 Mbit/s

95th percentile per-packet one-way delay: 63.628 ms

Loss rate: 0.52%

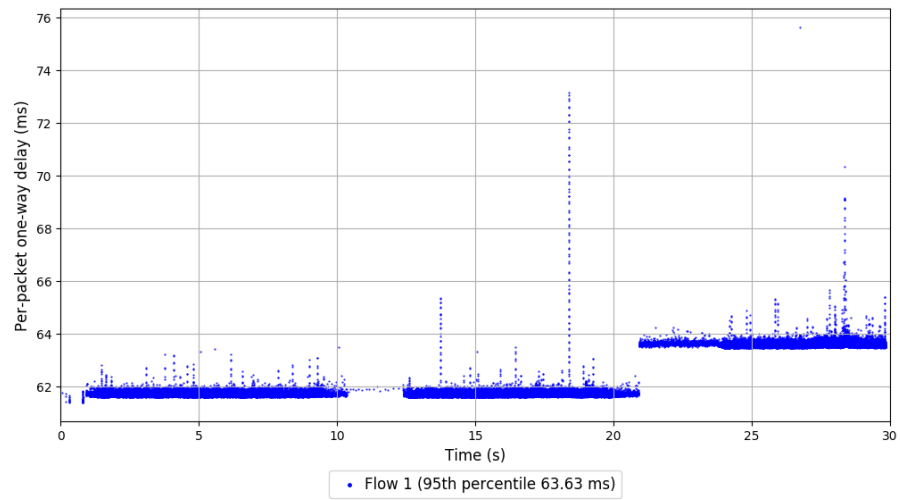
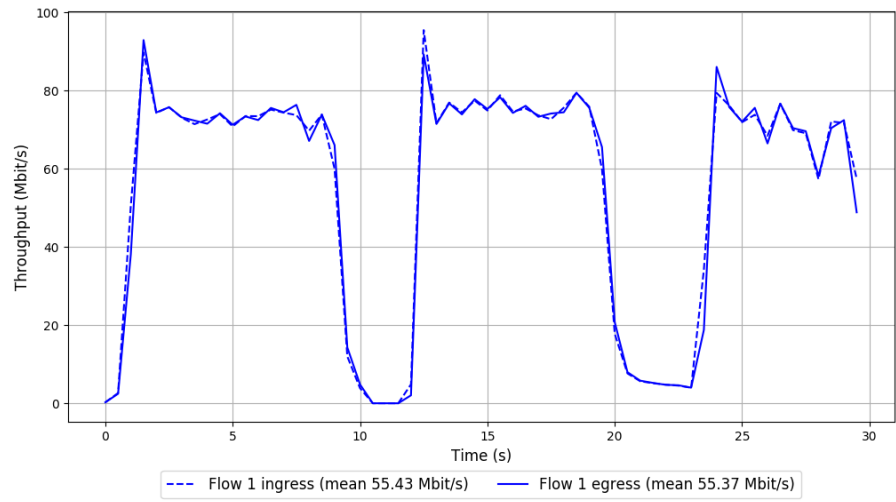
-- Flow 1:

Average throughput: 55.37 Mbit/s

95th percentile per-packet one-way delay: 63.628 ms

Loss rate: 0.52%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-20 10:33:56

End at: 2018-02-20 10:34:26

Below is generated by plot.py at 2018-02-20 14:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.91 Mbit/s

95th percentile per-packet one-way delay: 63.331 ms

Loss rate: 0.60%

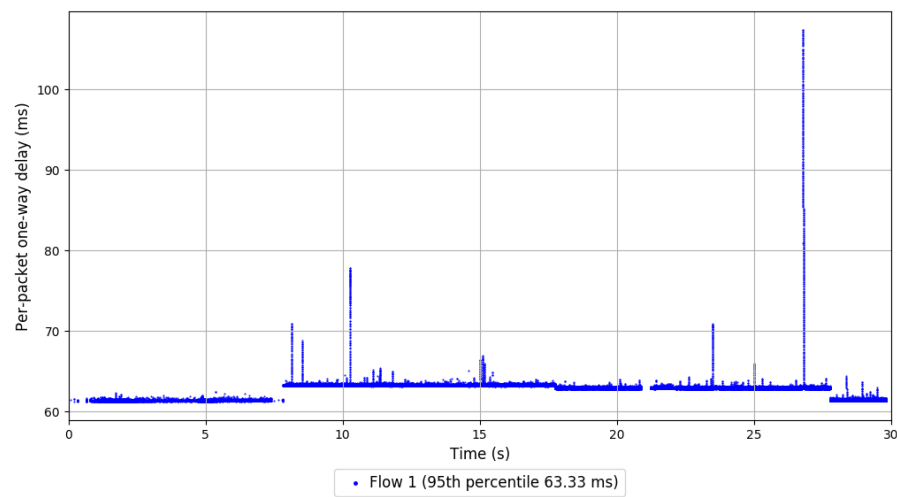
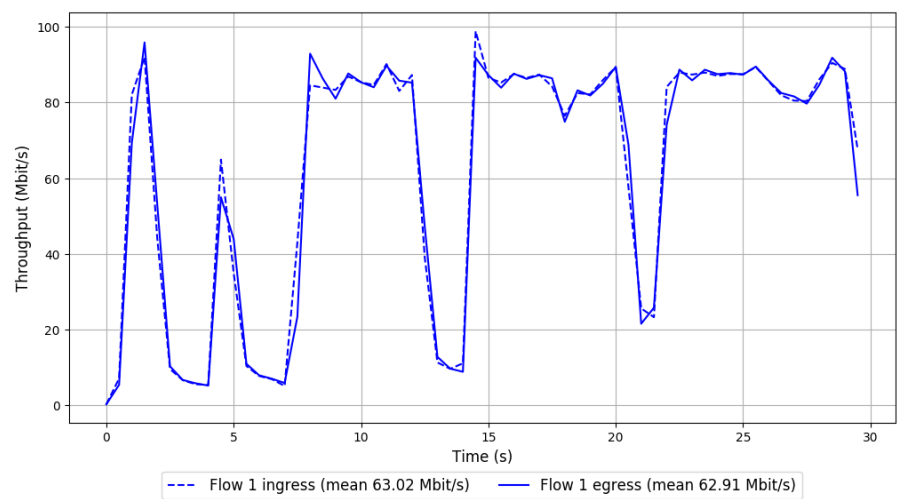
-- Flow 1:

Average throughput: 62.91 Mbit/s

95th percentile per-packet one-way delay: 63.331 ms

Loss rate: 0.60%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-20 10:48:41

End at: 2018-02-20 10:49:11

Below is generated by plot.py at 2018-02-20 14:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.09 Mbit/s

95th percentile per-packet one-way delay: 63.172 ms

Loss rate: 0.50%

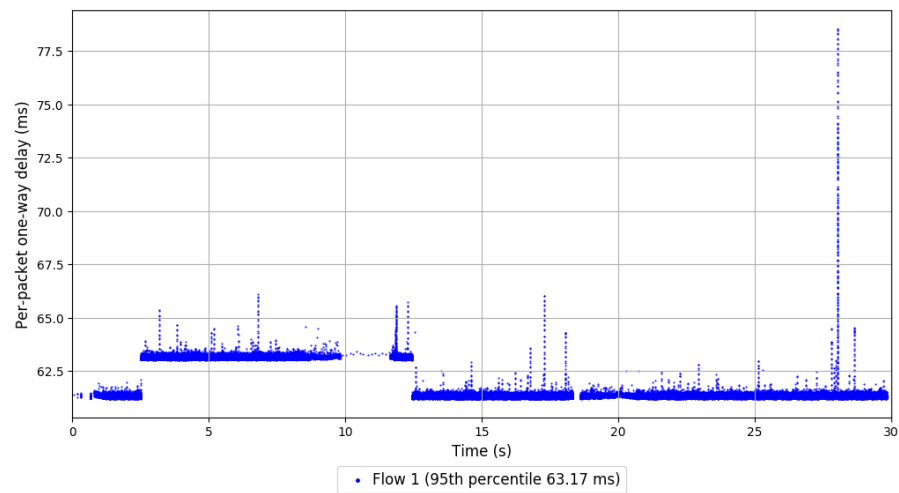
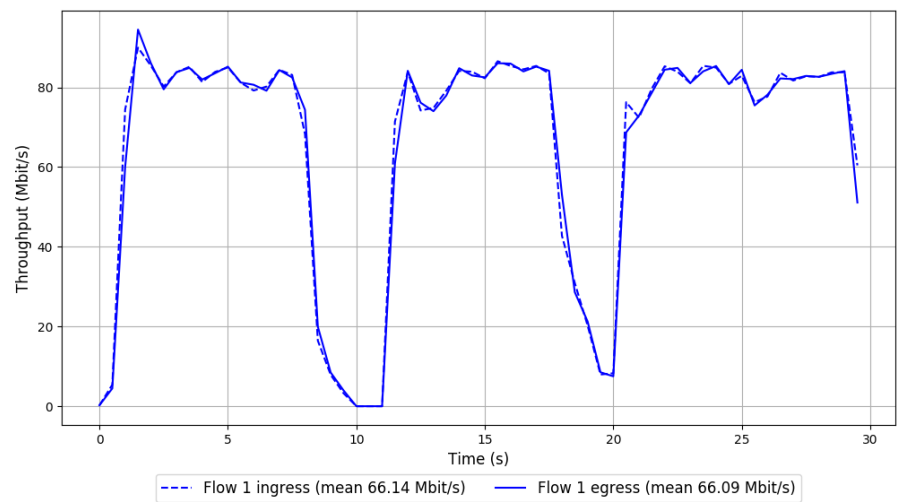
-- Flow 1:

Average throughput: 66.09 Mbit/s

95th percentile per-packet one-way delay: 63.172 ms

Loss rate: 0.50%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-20 11:03:17

End at: 2018-02-20 11:03:47

Below is generated by plot.py at 2018-02-20 14:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.67 Mbit/s

95th percentile per-packet one-way delay: 62.854 ms

Loss rate: 0.62%

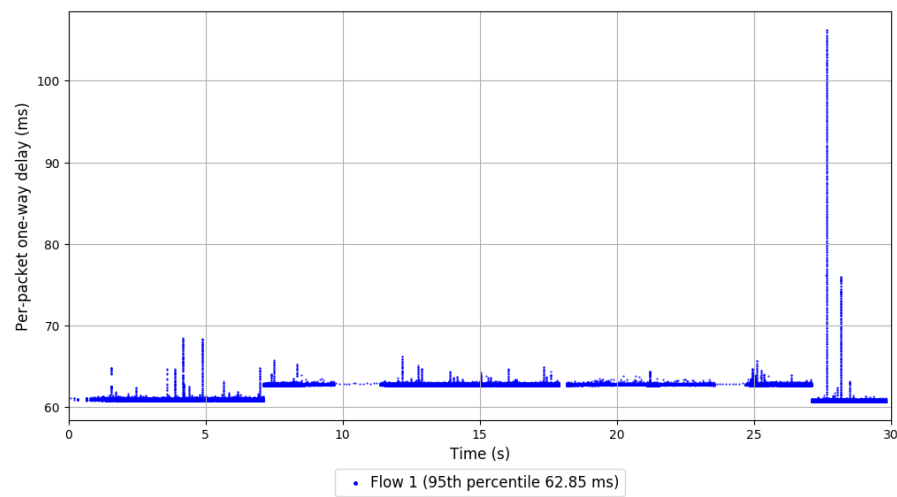
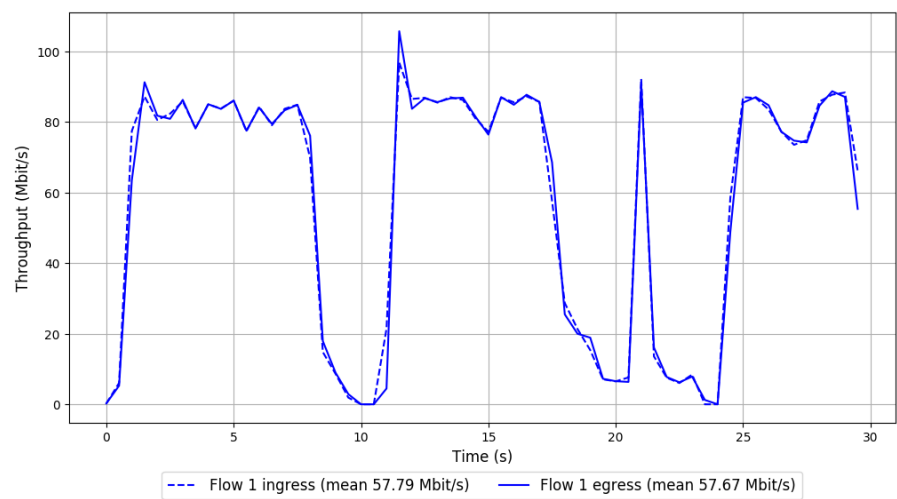
-- Flow 1:

Average throughput: 57.67 Mbit/s

95th percentile per-packet one-way delay: 62.854 ms

Loss rate: 0.62%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-20 11:17:50

End at: 2018-02-20 11:18:20

Below is generated by plot.py at 2018-02-20 14:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.20 Mbit/s

95th percentile per-packet one-way delay: 62.802 ms

Loss rate: 0.68%

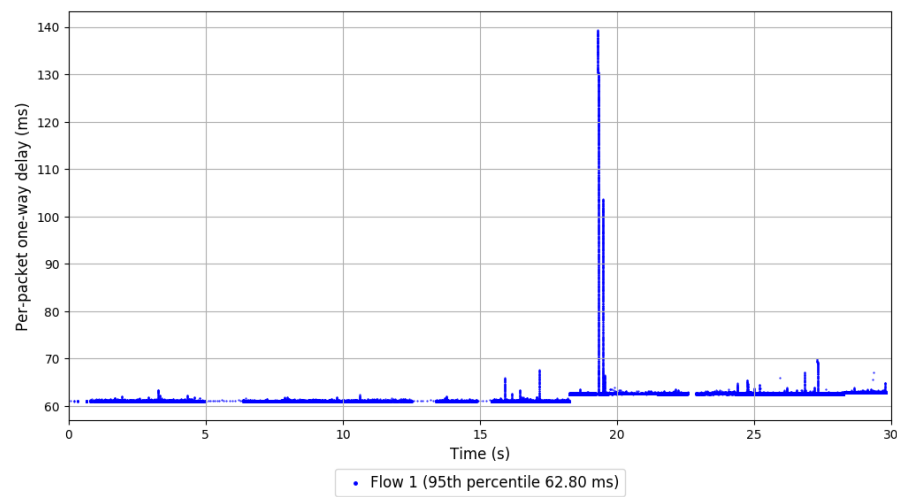
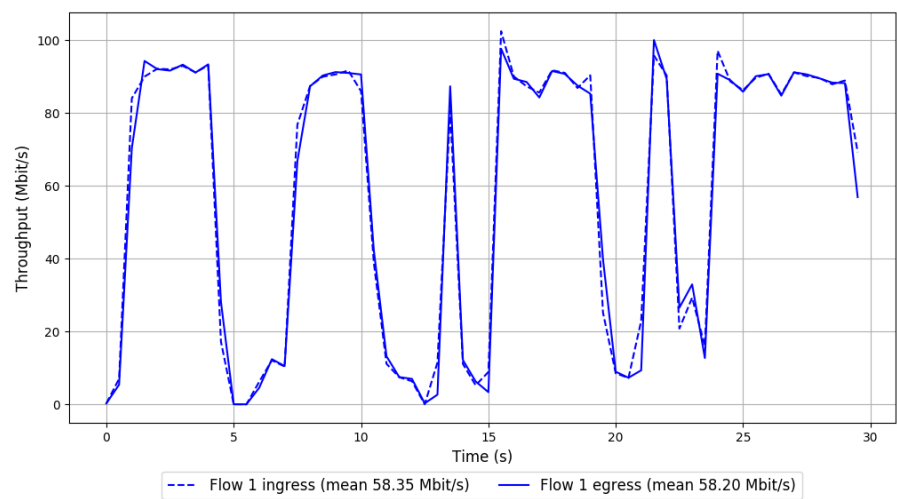
-- Flow 1:

Average throughput: 58.20 Mbit/s

95th percentile per-packet one-way delay: 62.802 ms

Loss rate: 0.68%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-02-20 11:32:39

End at: 2018-02-20 11:33:09

Below is generated by plot.py at 2018-02-20 14:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.68 Mbit/s

95th percentile per-packet one-way delay: 62.921 ms

Loss rate: 0.60%

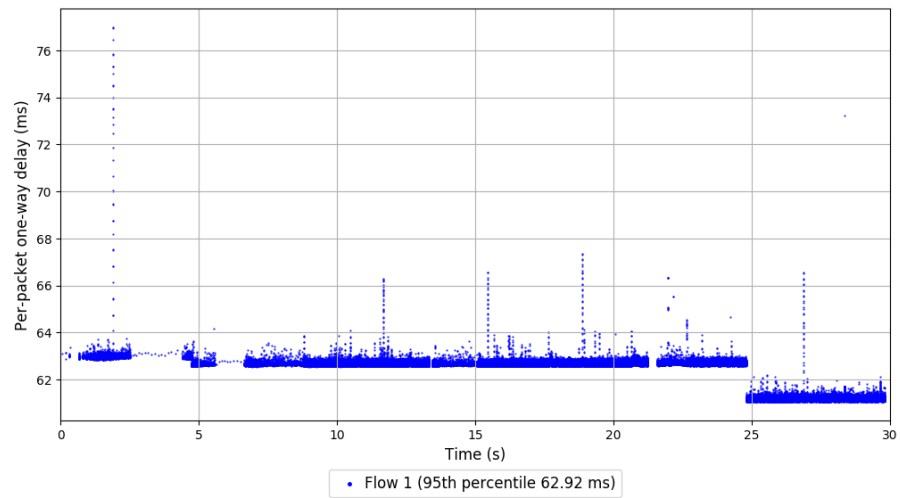
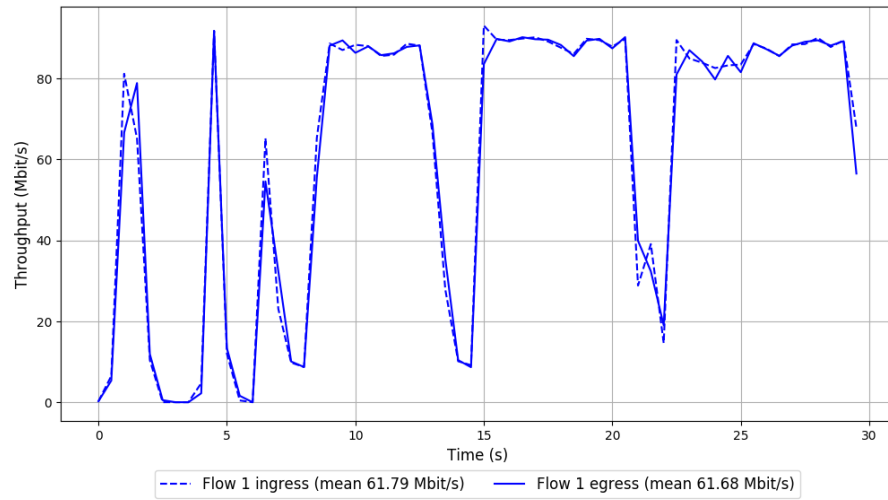
-- Flow 1:

Average throughput: 61.68 Mbit/s

95th percentile per-packet one-way delay: 62.921 ms

Loss rate: 0.60%

Run 10: Report of QUIC Cubic — Data Link

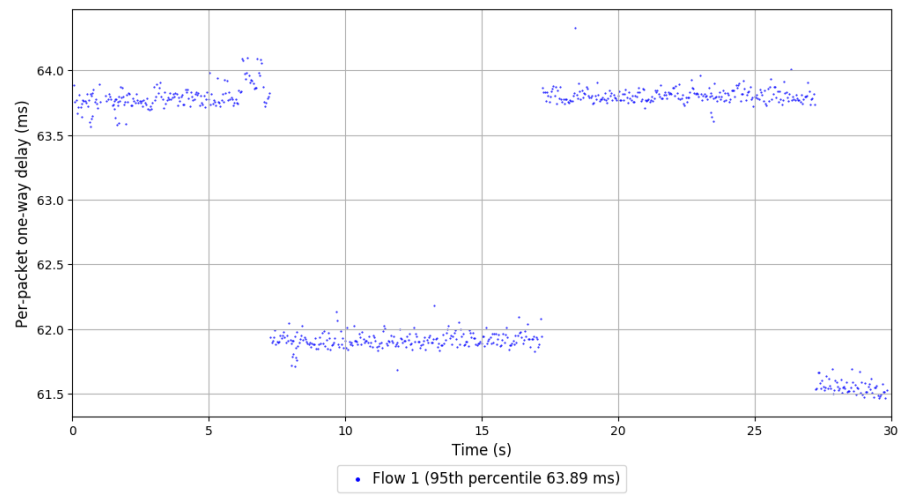
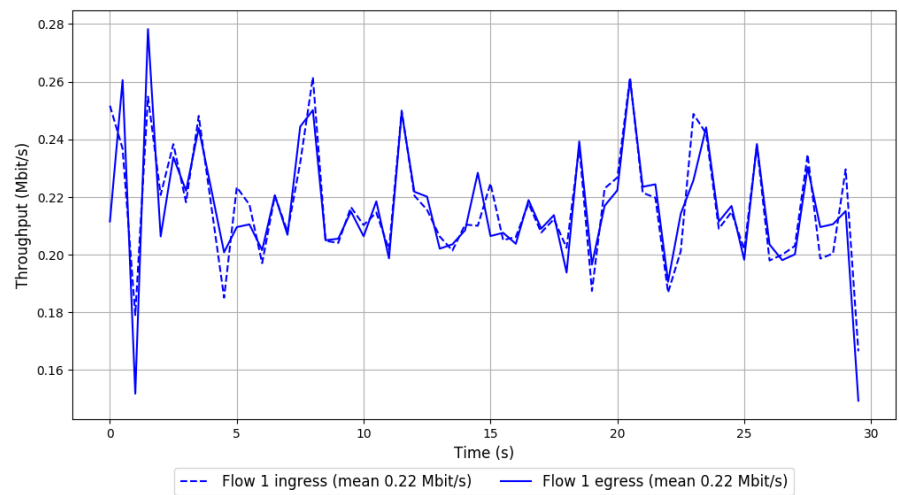


```
Run 1: Statistics of SCReAM

Start at: 2018-02-20 09:16:07
End at: 2018-02-20 09:16:37

# Below is generated by plot.py at 2018-02-20 14:35:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.889 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.889 ms
Loss rate: 0.38%
```

Run 1: Report of SReAM — Data Link

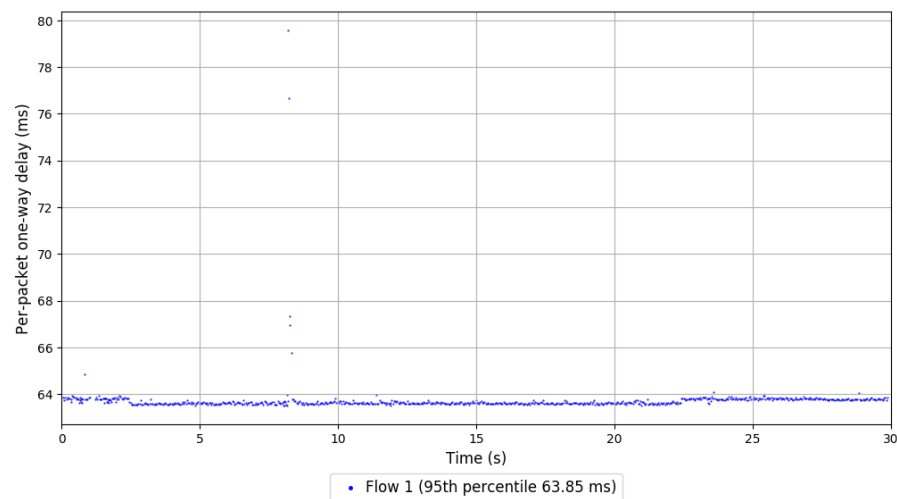
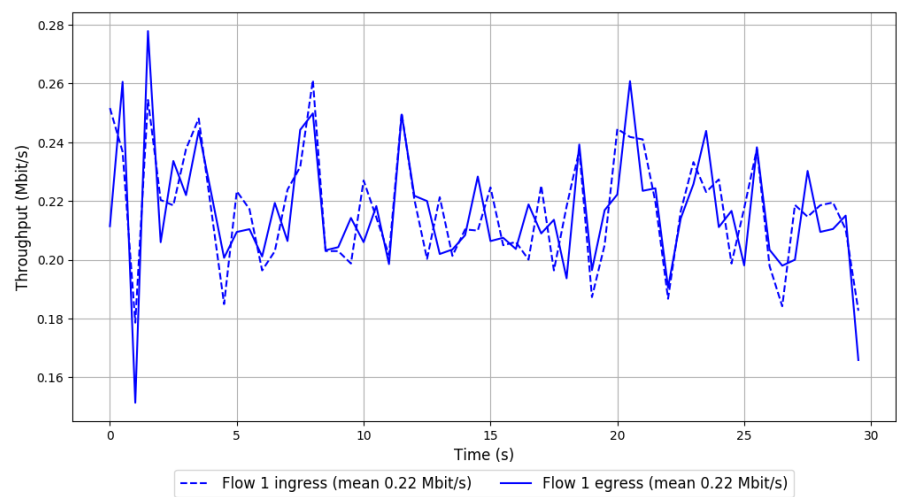


```
Run 2: Statistics of SCReAM

Start at: 2018-02-20 09:30:51
End at: 2018-02-20 09:31:21

# Below is generated by plot.py at 2018-02-20 14:35:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.850 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.850 ms
Loss rate: 0.38%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-02-20 09:45:32

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

Below is generated by plot.py at 2018-02-20 14:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.839 ms

Loss rate: 0.38%

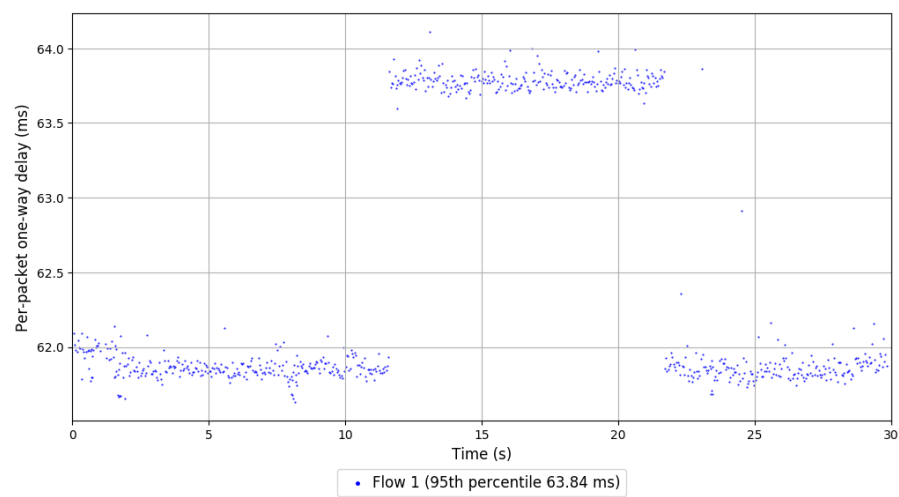
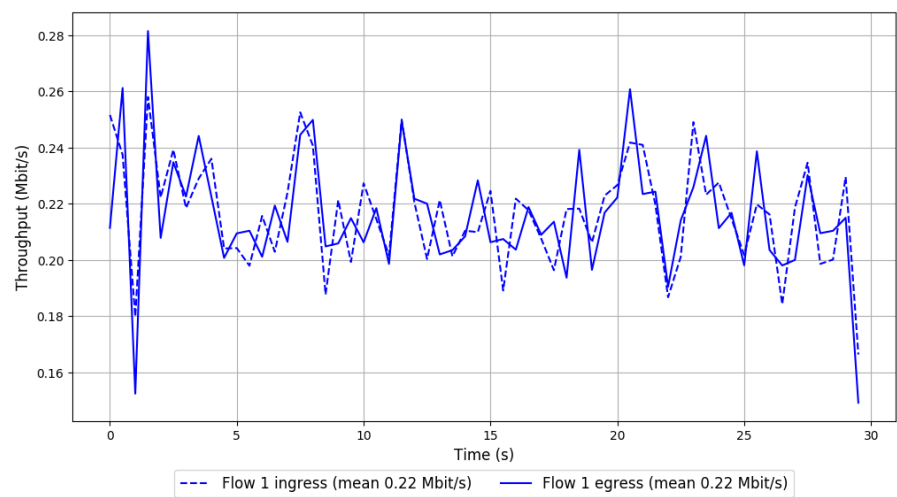
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.839 ms

Loss rate: 0.38%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-02-20 09:59:58

End at: 2018-02-20 10:00:28

Below is generated by plot.py at 2018-02-20 14:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.783 ms

Loss rate: 0.51%

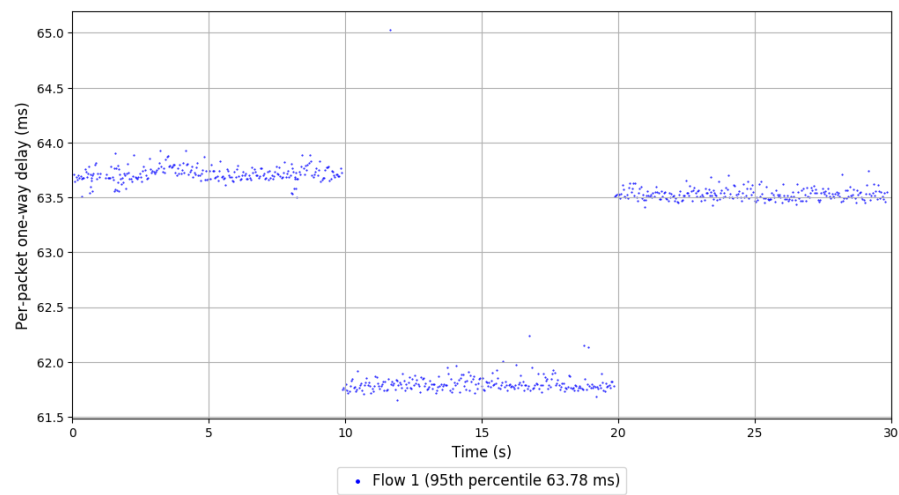
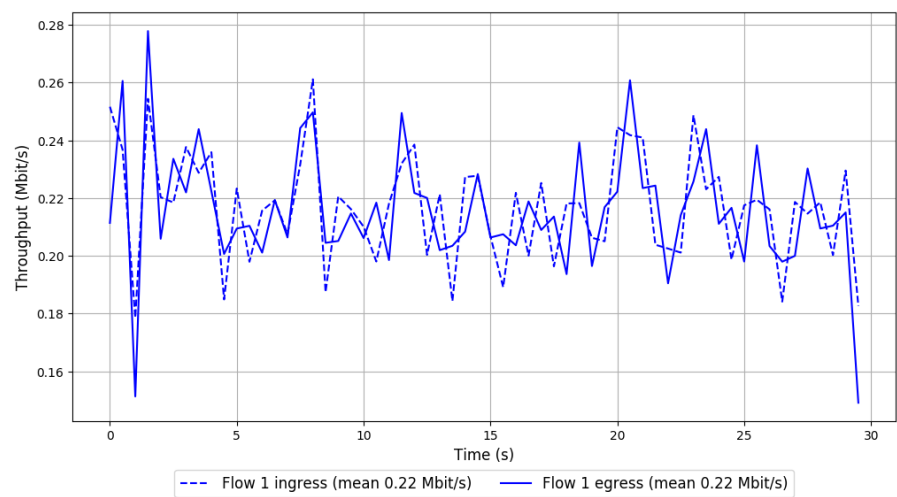
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.783 ms

Loss rate: 0.51%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-20 10:14:42

End at: 2018-02-20 10:15:12

Below is generated by plot.py at 2018-02-20 14:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.058 ms

Loss rate: 0.38%

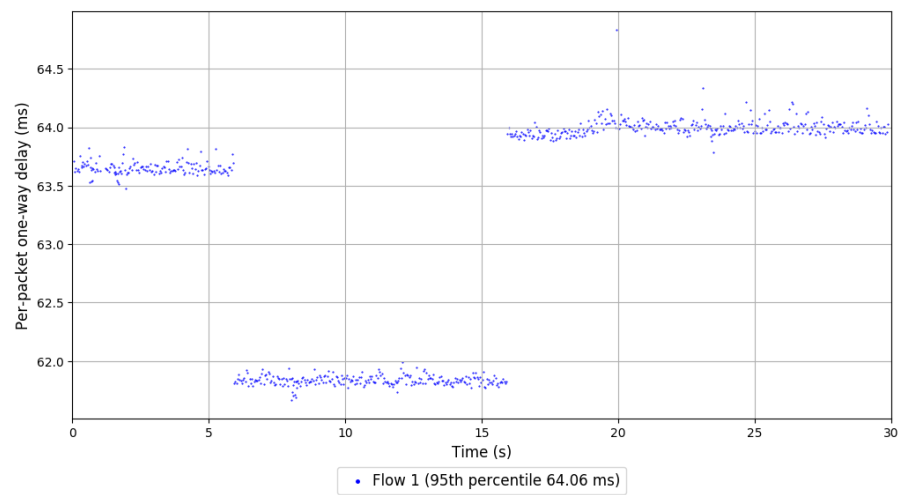
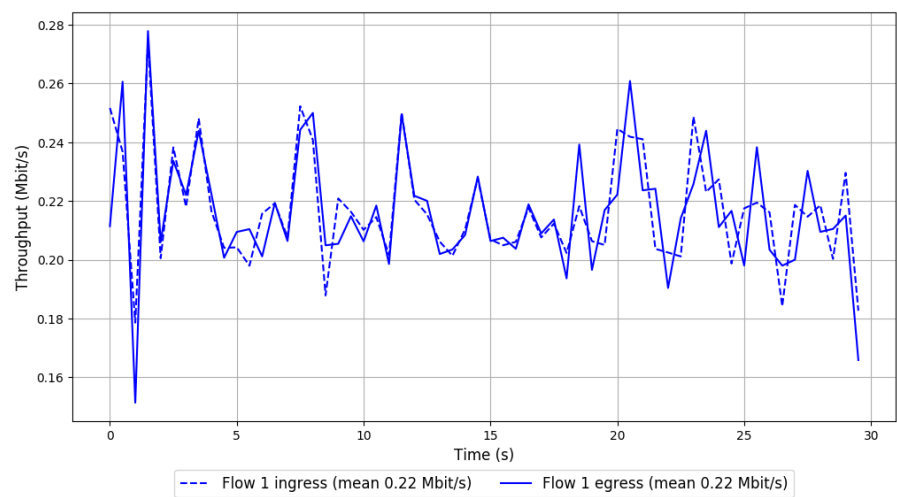
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.058 ms

Loss rate: 0.38%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-02-20 10:29:12

End at: 2018-02-20 10:29:42

Below is generated by plot.py at 2018-02-20 14:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.592 ms

Loss rate: 0.38%

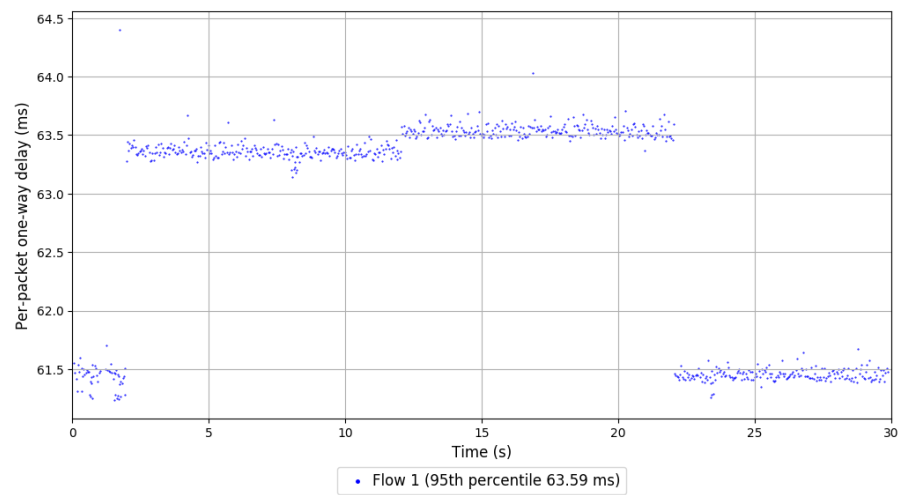
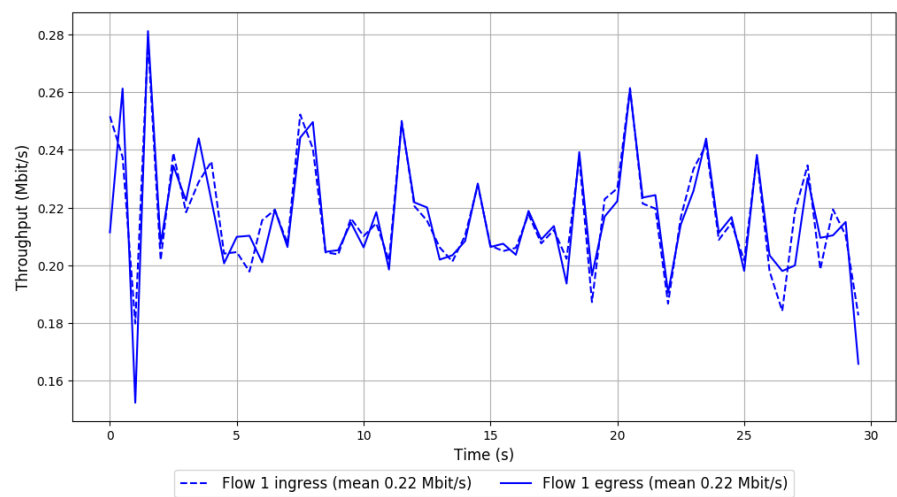
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.592 ms

Loss rate: 0.38%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-02-20 10:43:47

End at: 2018-02-20 10:44:17

Below is generated by plot.py at 2018-02-20 14:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.189 ms

Loss rate: 0.38%

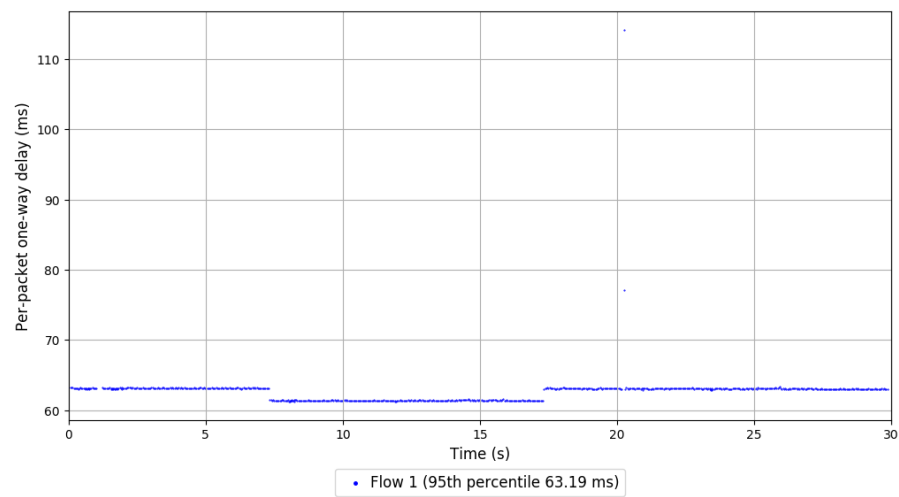
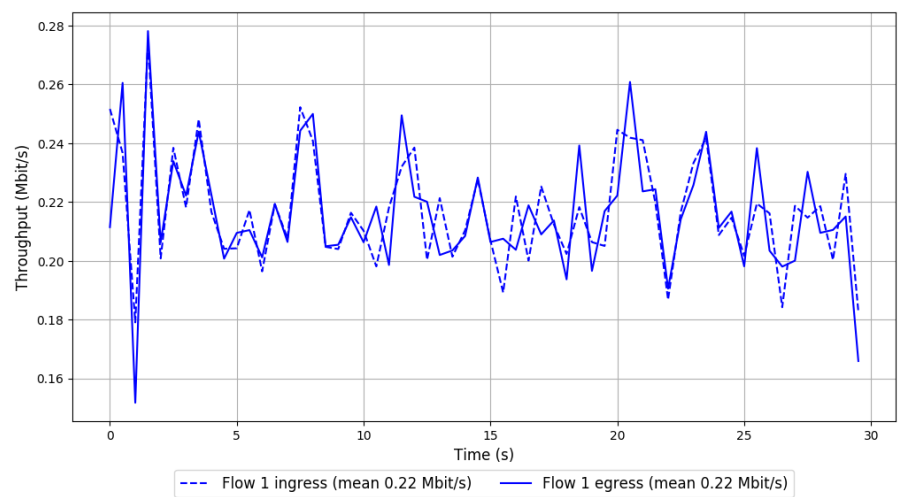
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.189 ms

Loss rate: 0.38%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-20 10:58:27

End at: 2018-02-20 10:58:57

Below is generated by plot.py at 2018-02-20 14:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.142 ms

Loss rate: 0.38%

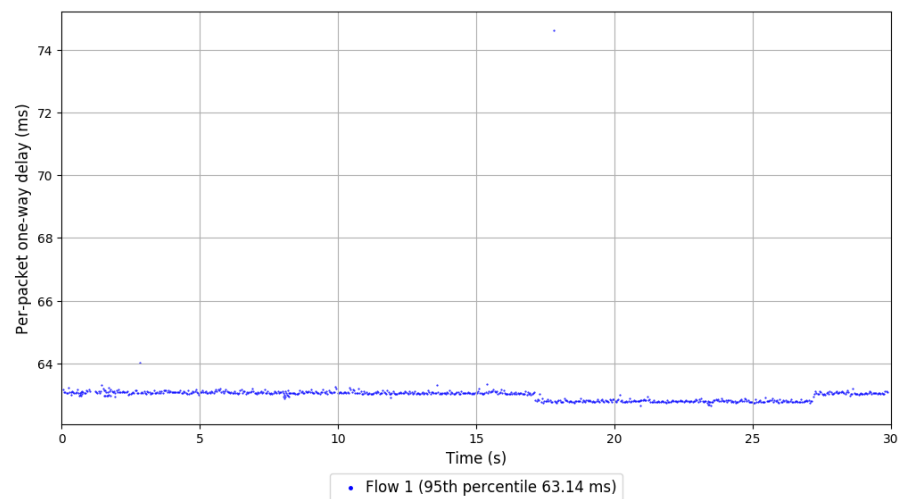
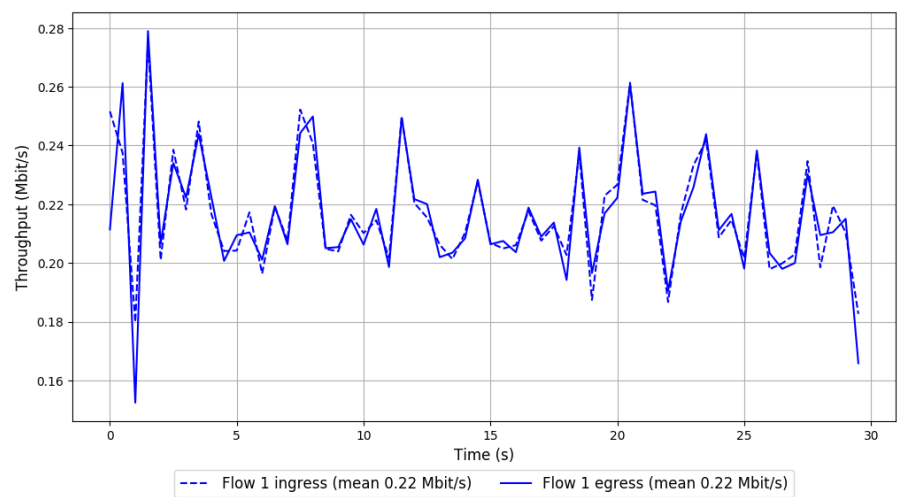
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.142 ms

Loss rate: 0.38%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-02-20 11:13:15

End at: 2018-02-20 11:13:45

Below is generated by plot.py at 2018-02-20 14:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.064 ms

Loss rate: 0.38%

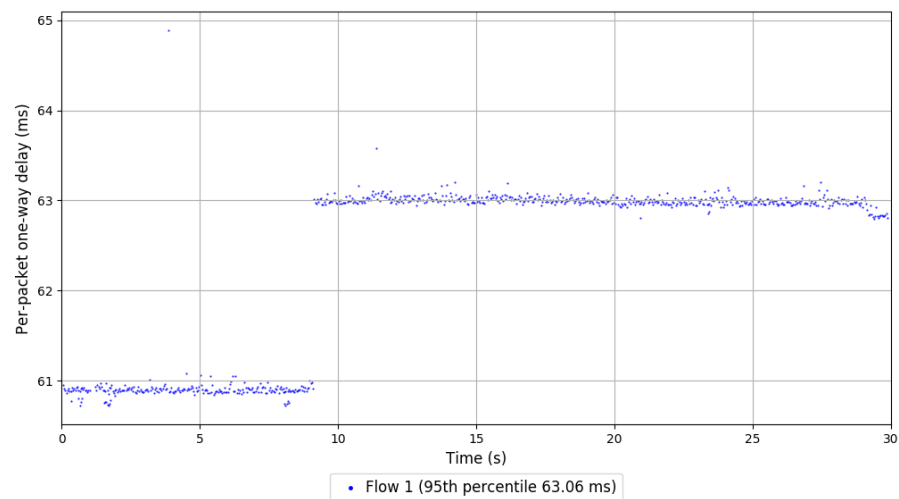
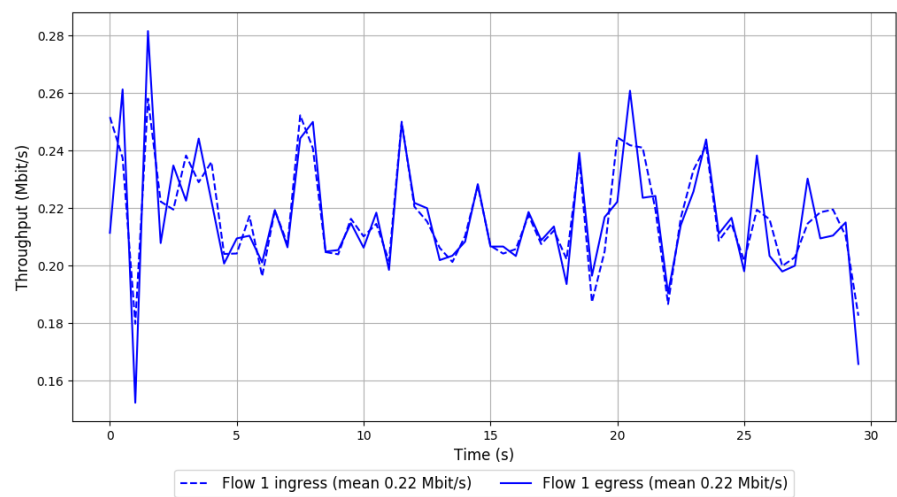
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.064 ms

Loss rate: 0.38%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-20 11:27:45

End at: 2018-02-20 11:28:15

Below is generated by plot.py at 2018-02-20 14:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 62.991 ms

Loss rate: 0.38%

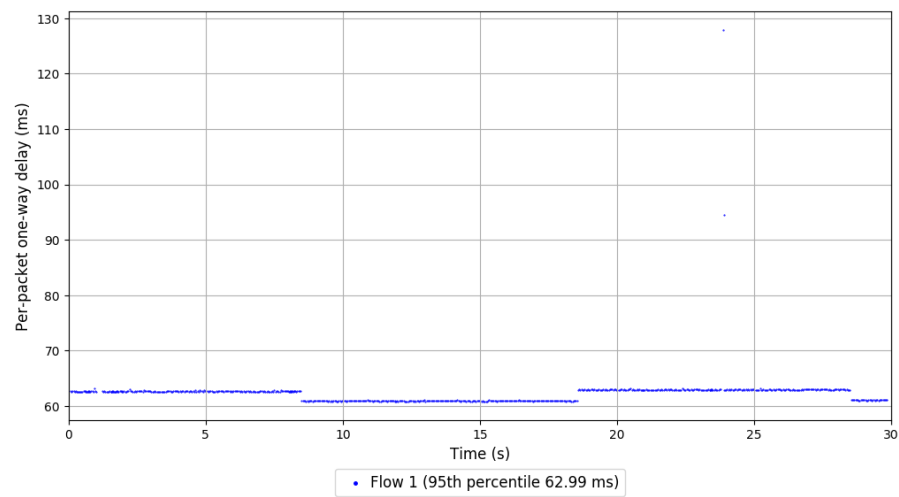
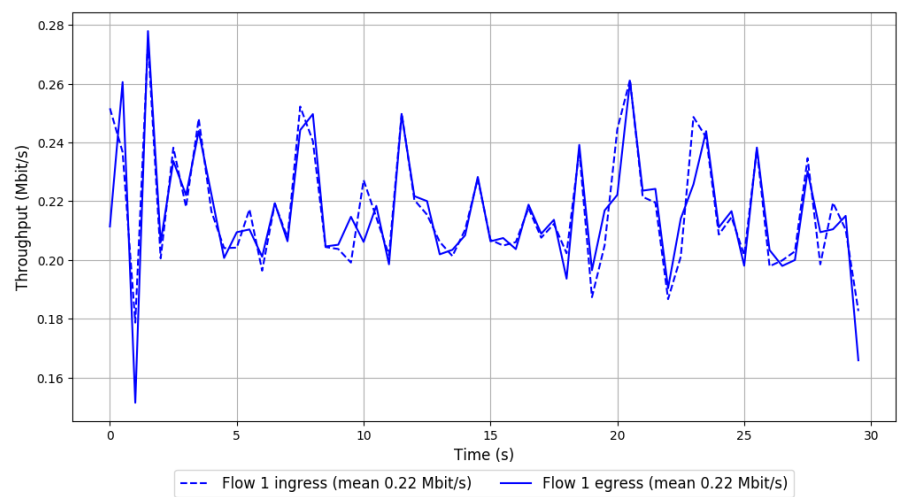
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 62.991 ms

Loss rate: 0.38%

Run 10: Report of SReAM — Data Link

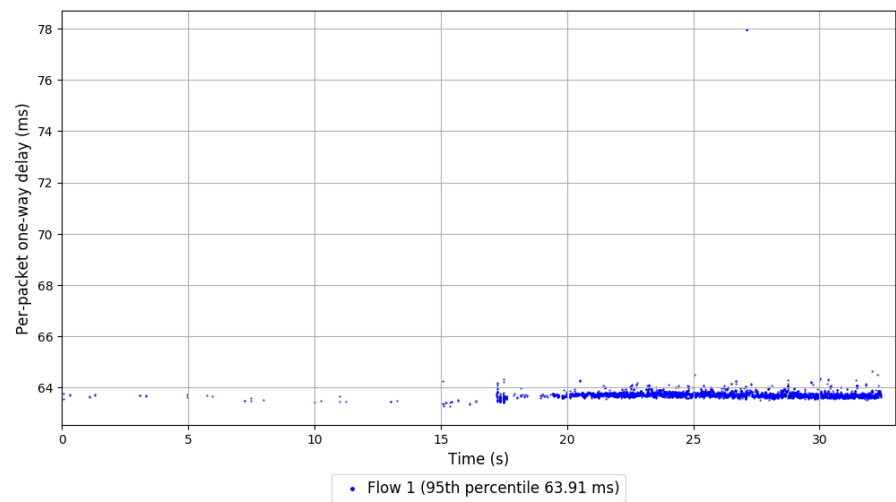
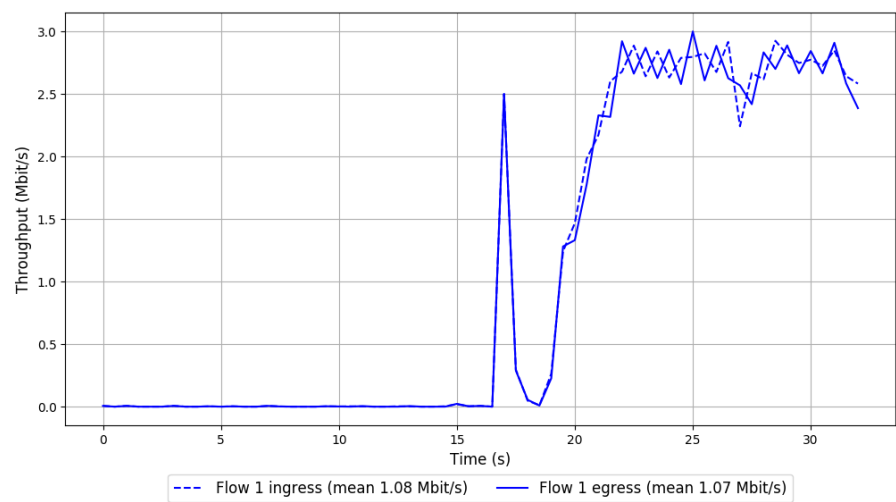


```
Run 1: Statistics of WebRTC media

Start at: 2018-02-20 09:20:19
End at: 2018-02-20 09:20:49

# Below is generated by plot.py at 2018-02-20 14:35:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.07 Mbit/s
95th percentile per-packet one-way delay: 63.906 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 1.07 Mbit/s
95th percentile per-packet one-way delay: 63.906 ms
Loss rate: 0.91%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-20 09:35:06

End at: 2018-02-20 09:35:36

Below is generated by plot.py at 2018-02-20 14:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 63.799 ms

Loss rate: 0.44%

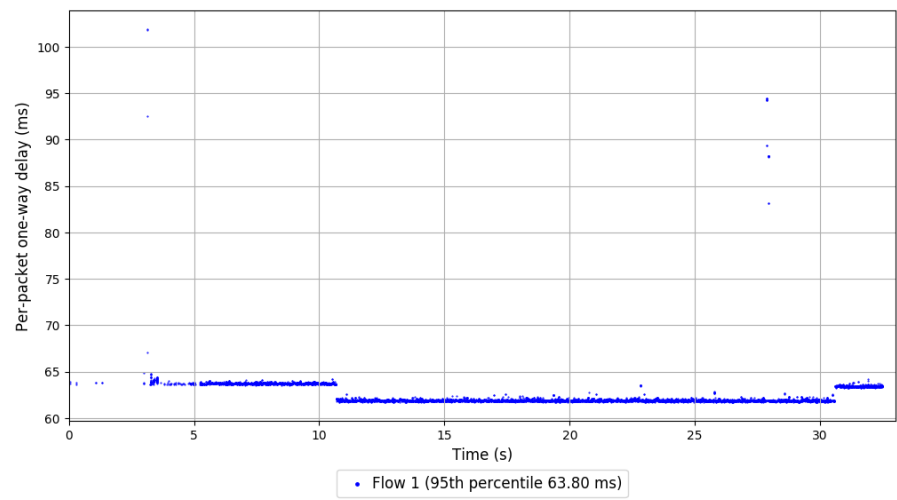
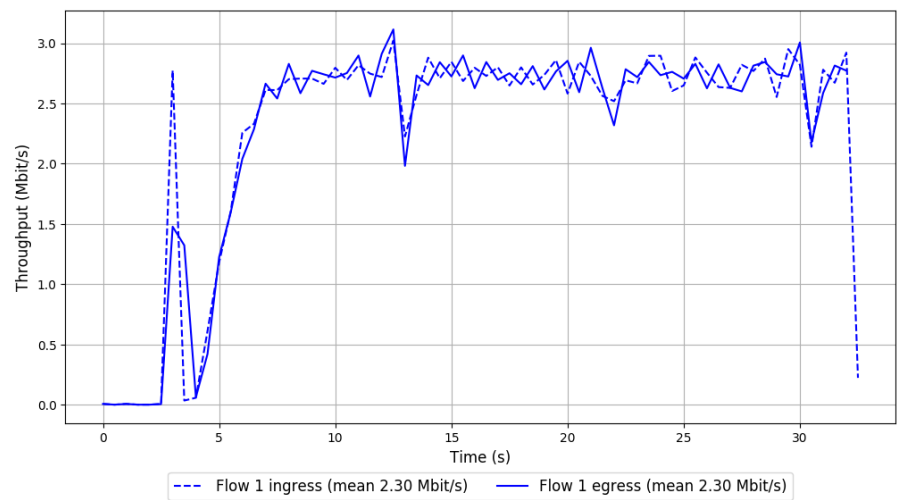
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 63.799 ms

Loss rate: 0.44%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-20 09:49:44

End at: 2018-02-20 09:50:14

Below is generated by plot.py at 2018-02-20 14:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 63.910 ms

Loss rate: 0.43%

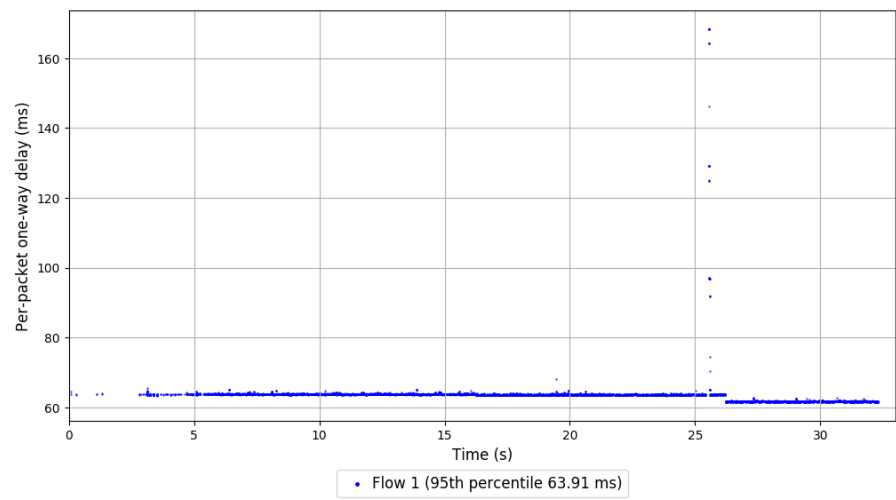
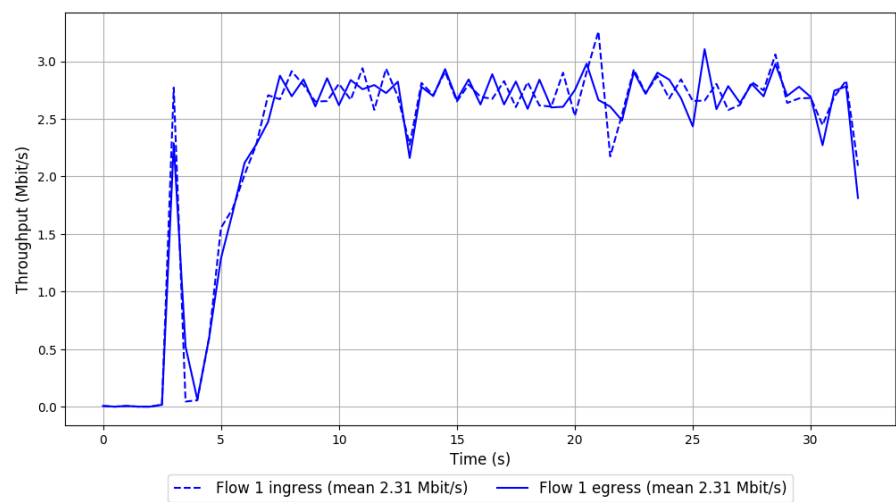
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 63.910 ms

Loss rate: 0.43%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-20 10:04:05

End at: 2018-02-20 10:04:35

Below is generated by plot.py at 2018-02-20 14:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 62.046 ms

Loss rate: 0.44%

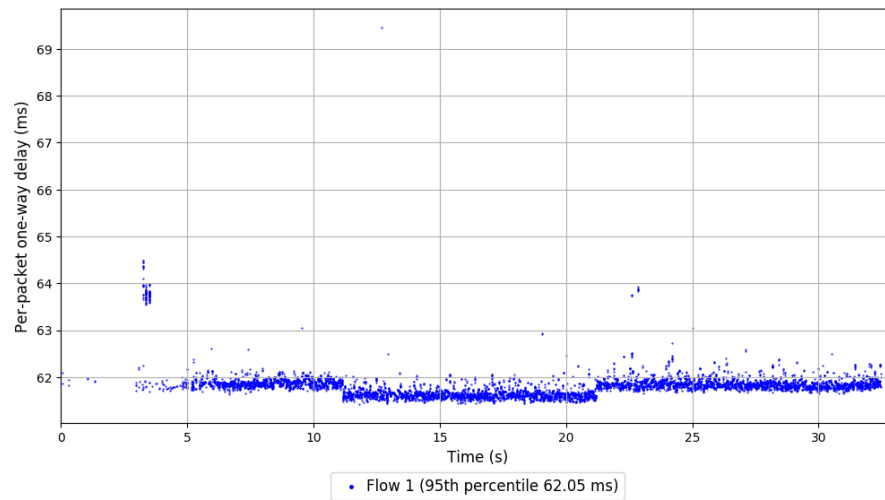
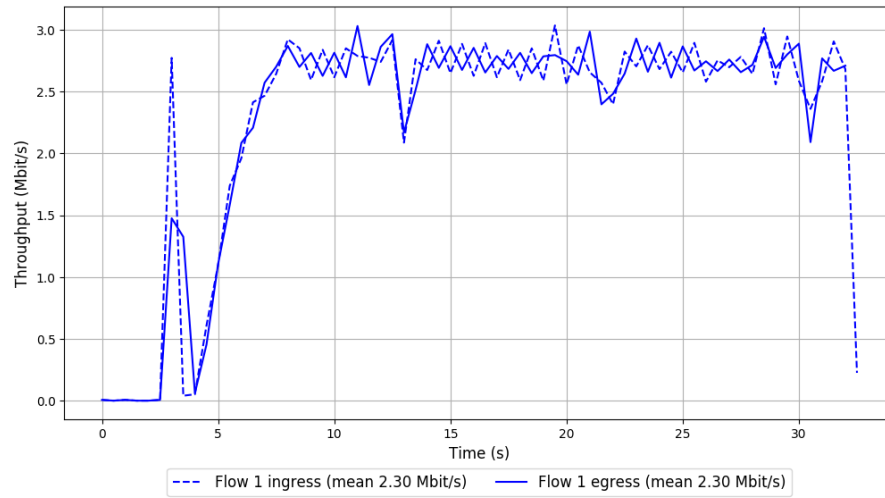
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 62.046 ms

Loss rate: 0.44%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-20 10:18:55

End at: 2018-02-20 10:19:25

Below is generated by plot.py at 2018-02-20 14:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 63.830 ms

Loss rate: 0.43%

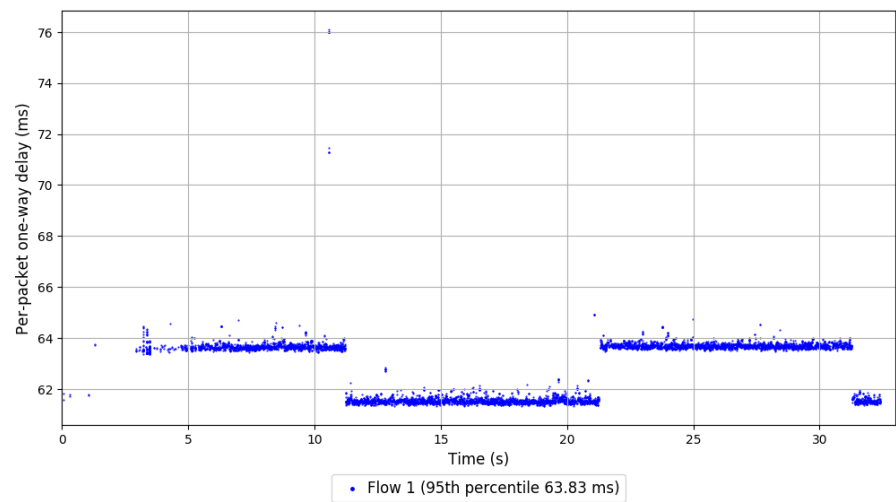
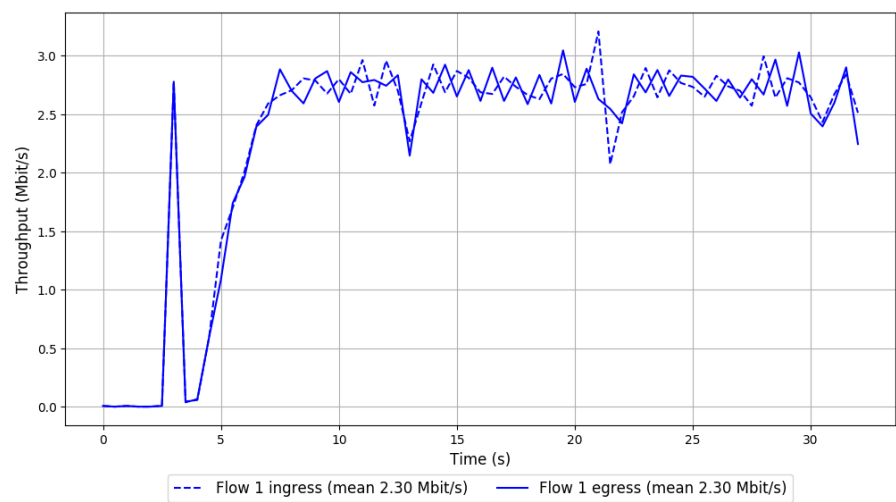
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 63.830 ms

Loss rate: 0.43%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-20 10:33:18

End at: 2018-02-20 10:33:48

Below is generated by plot.py at 2018-02-20 14:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 63.443 ms

Loss rate: 0.48%

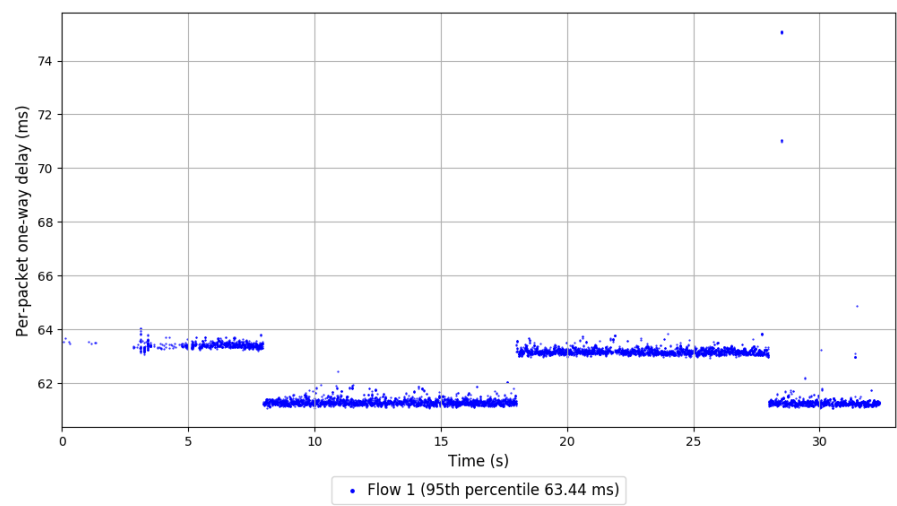
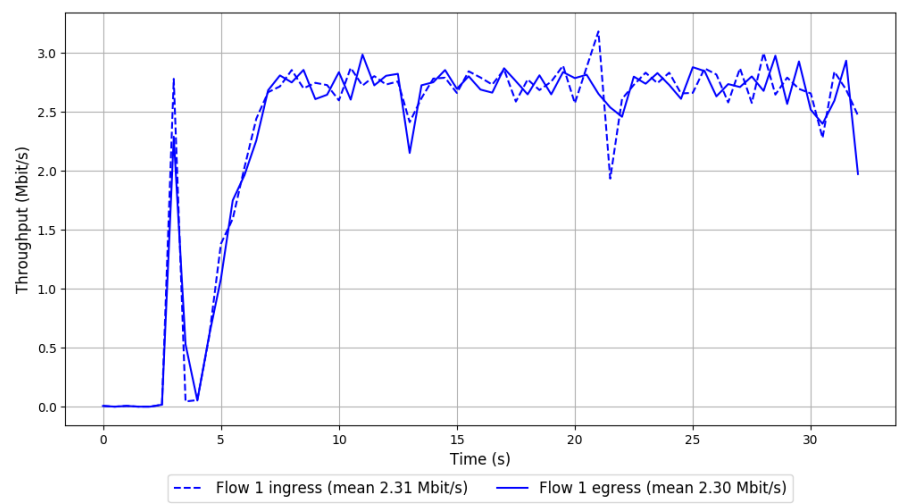
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 63.443 ms

Loss rate: 0.48%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-20 10:48:04

End at: 2018-02-20 10:48:34

Below is generated by plot.py at 2018-02-20 14:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 63.374 ms

Loss rate: 0.57%

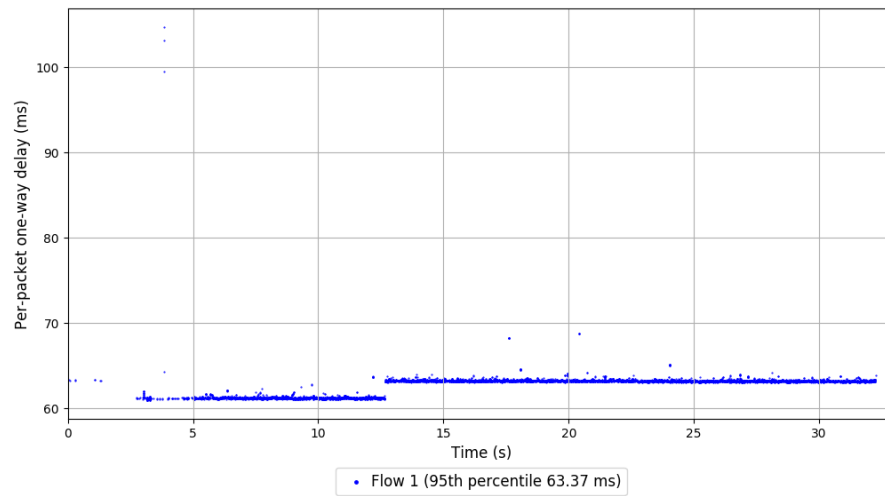
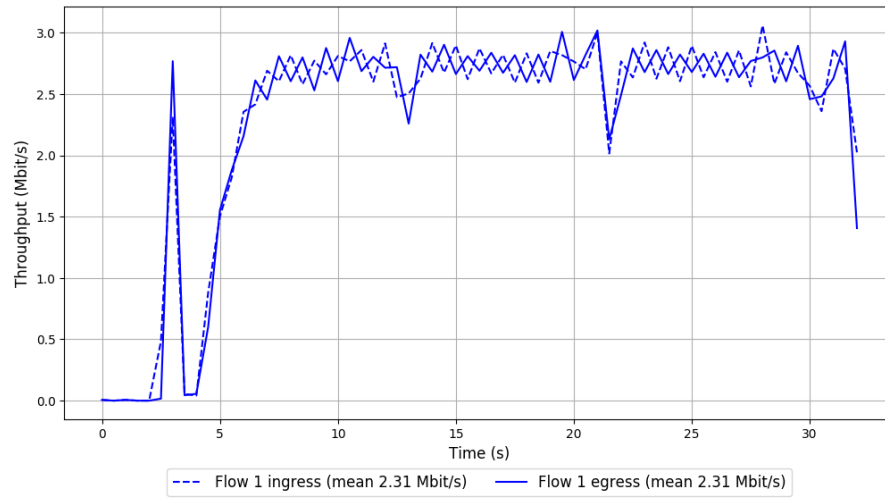
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 63.374 ms

Loss rate: 0.57%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-20 11:02:39

End at: 2018-02-20 11:03:09

Below is generated by plot.py at 2018-02-20 14:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 63.218 ms

Loss rate: 0.44%

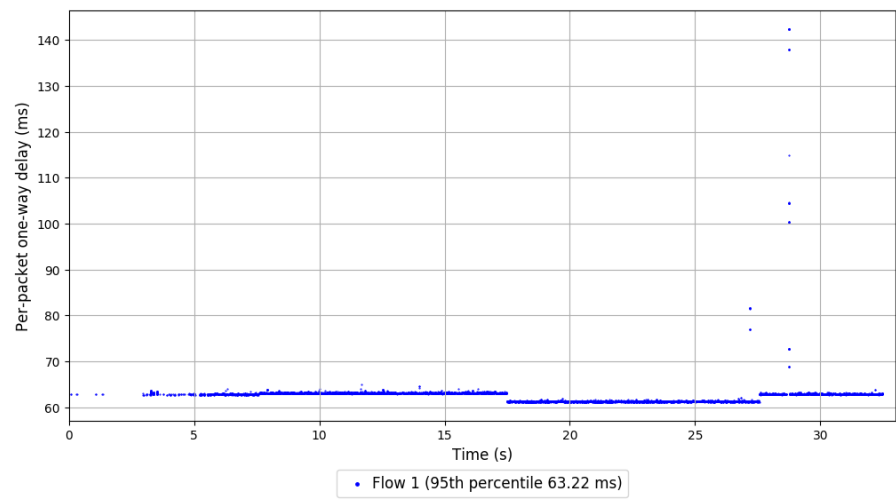
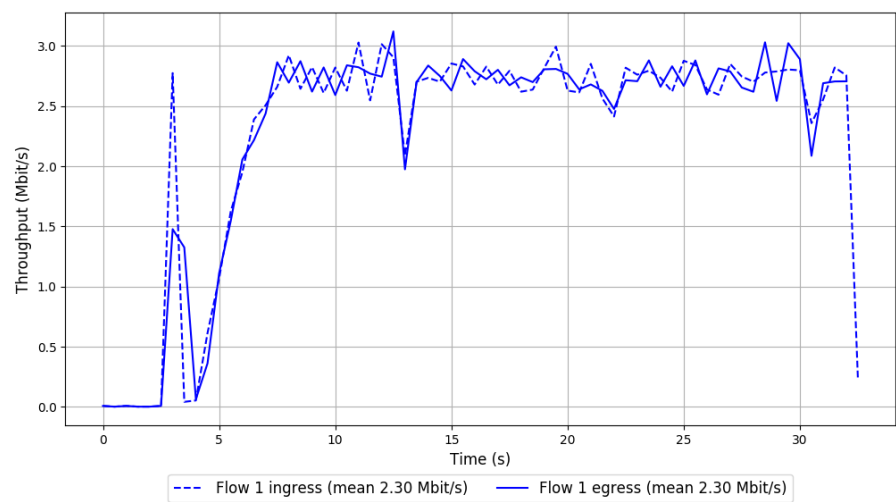
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 63.218 ms

Loss rate: 0.44%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-20 11:17:12

End at: 2018-02-20 11:17:42

Below is generated by plot.py at 2018-02-20 14:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 62.992 ms

Loss rate: 0.44%

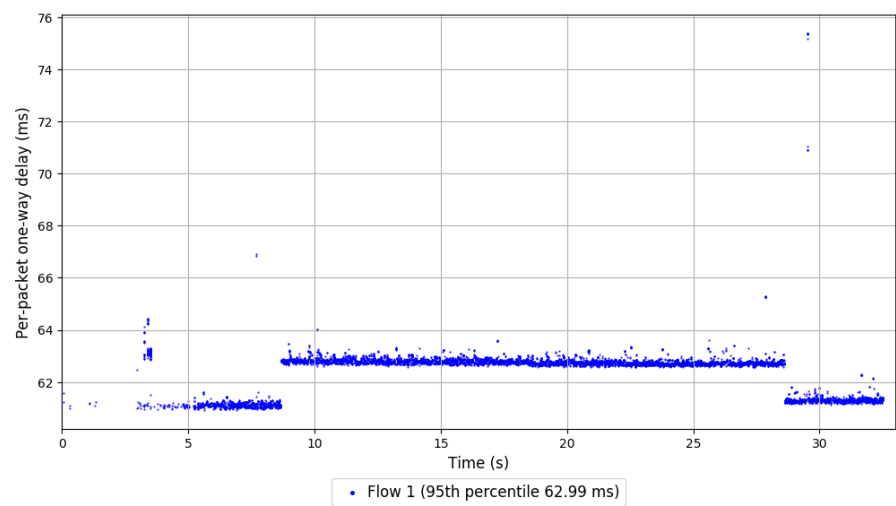
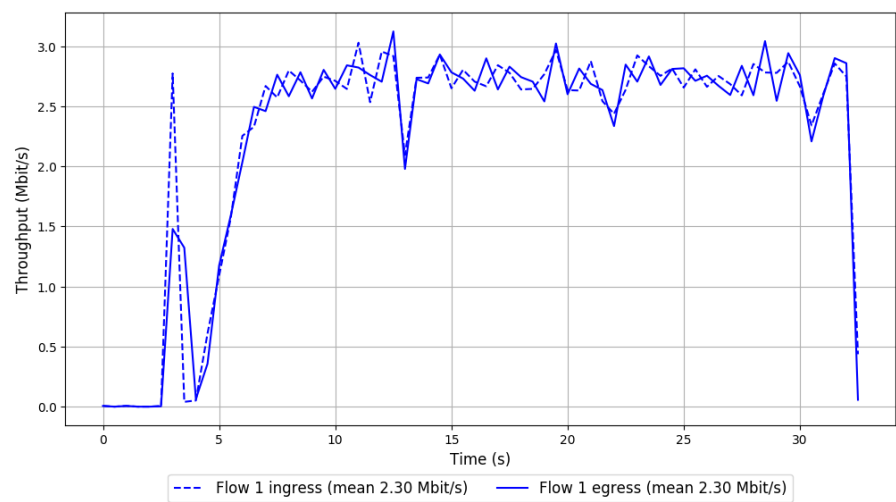
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 62.992 ms

Loss rate: 0.44%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-20 11:32:01

End at: 2018-02-20 11:32:31

Below is generated by plot.py at 2018-02-20 14:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 62.954 ms

Loss rate: 0.43%

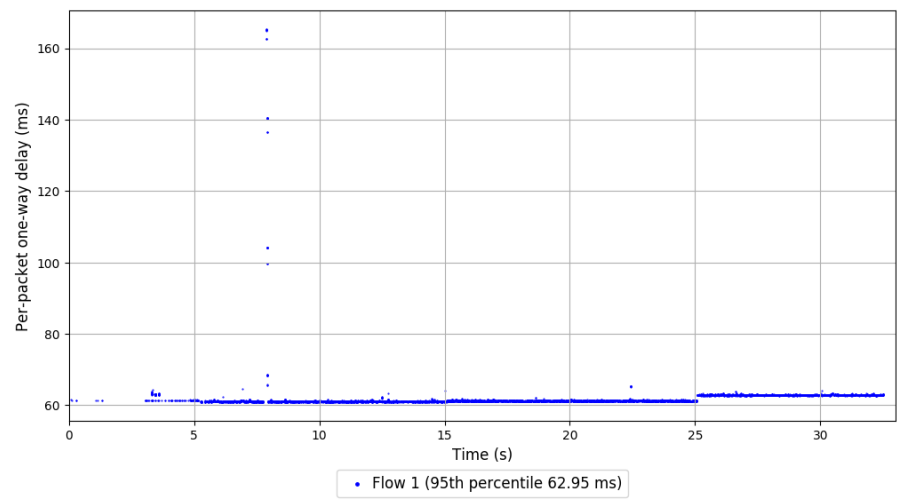
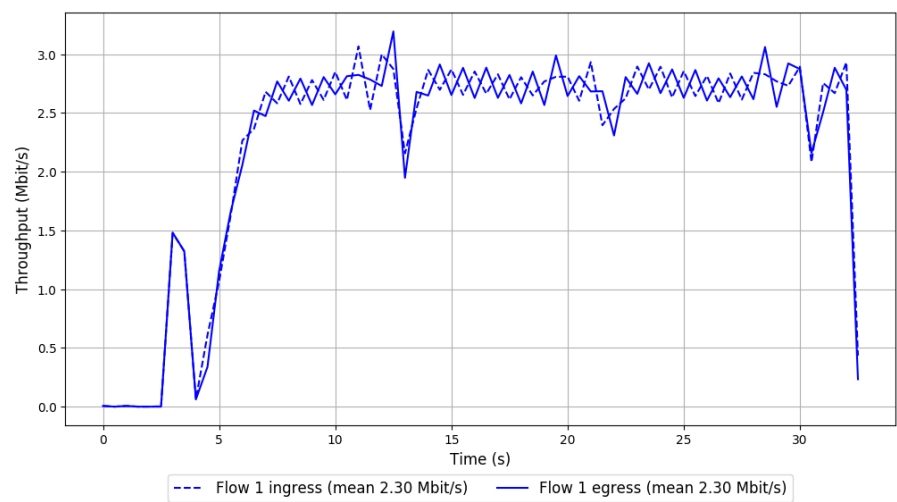
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 62.954 ms

Loss rate: 0.43%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-20 09:18:55

End at: 2018-02-20 09:19:25

Below is generated by plot.py at 2018-02-20 14:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.48 Mbit/s

95th percentile per-packet one-way delay: 64.843 ms

Loss rate: 0.58%

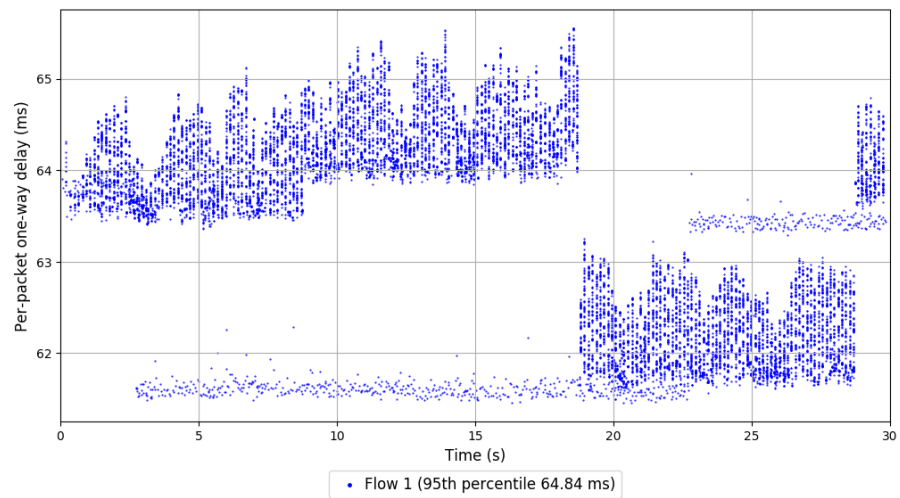
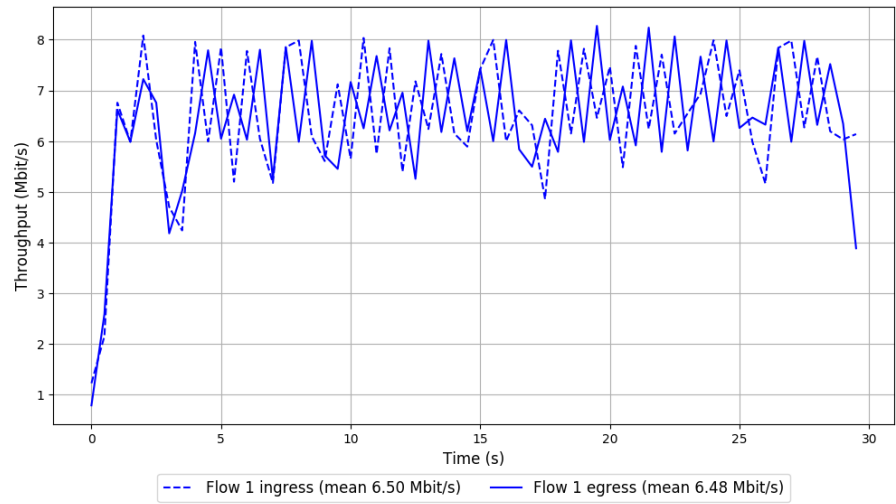
-- Flow 1:

Average throughput: 6.48 Mbit/s

95th percentile per-packet one-way delay: 64.843 ms

Loss rate: 0.58%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-20 09:33:42

End at: 2018-02-20 09:34:12

Below is generated by plot.py at 2018-02-20 14:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.42 Mbit/s

95th percentile per-packet one-way delay: 64.879 ms

Loss rate: 0.44%

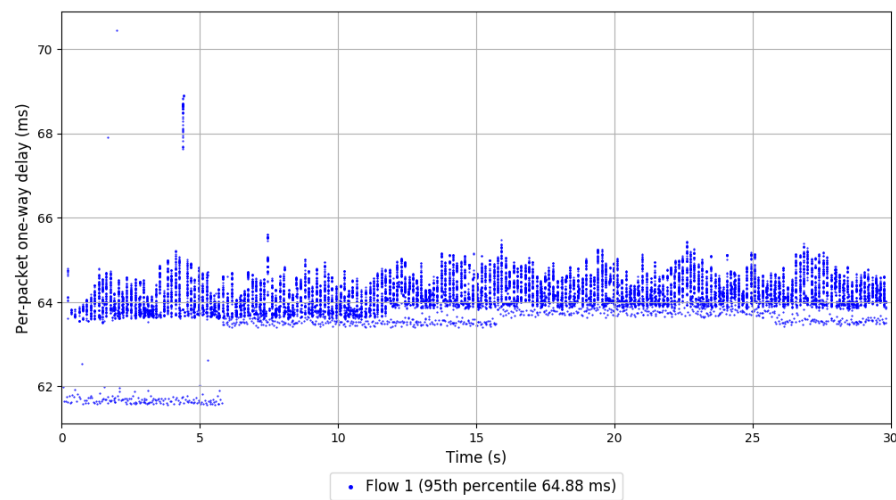
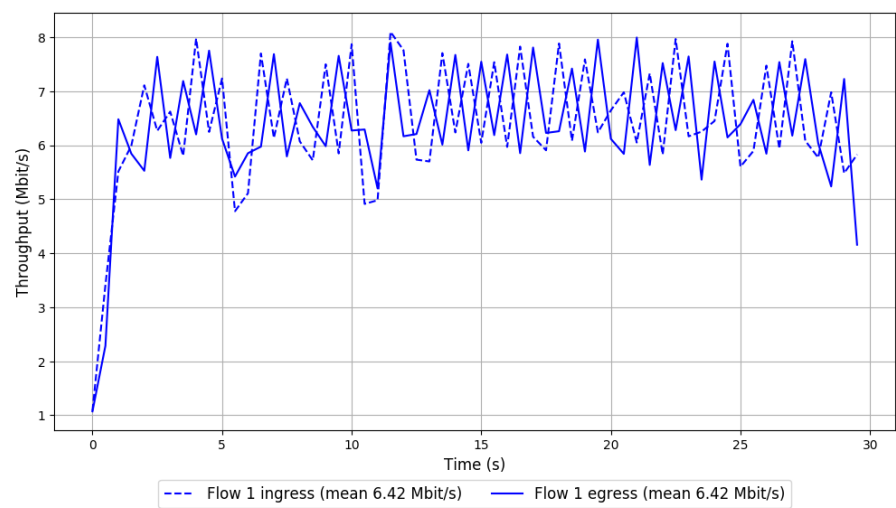
-- Flow 1:

Average throughput: 6.42 Mbit/s

95th percentile per-packet one-way delay: 64.879 ms

Loss rate: 0.44%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-20 09:48:20

End at: 2018-02-20 09:48:50

Below is generated by plot.py at 2018-02-20 14:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.64 Mbit/s

95th percentile per-packet one-way delay: 64.770 ms

Loss rate: 0.48%

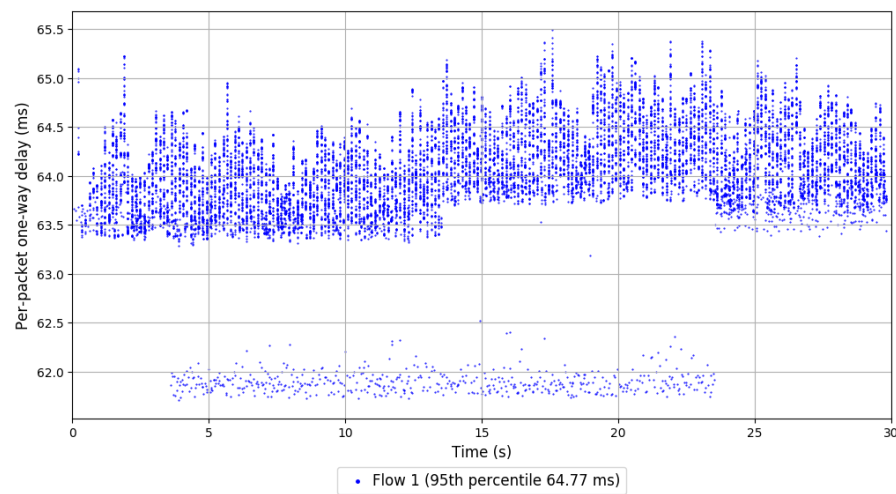
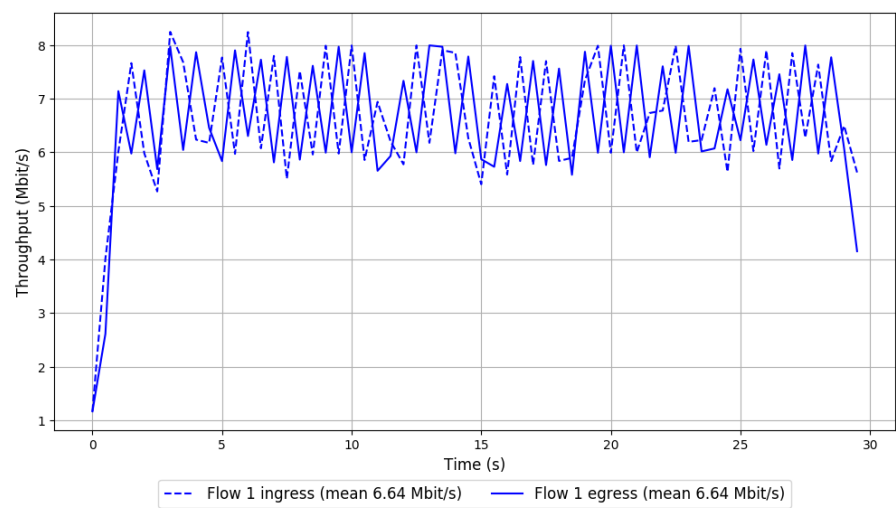
-- Flow 1:

Average throughput: 6.64 Mbit/s

95th percentile per-packet one-way delay: 64.770 ms

Loss rate: 0.48%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-20 10:02:41

End at: 2018-02-20 10:03:11

Below is generated by plot.py at 2018-02-20 14:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.52 Mbit/s

95th percentile per-packet one-way delay: 64.813 ms

Loss rate: 0.59%

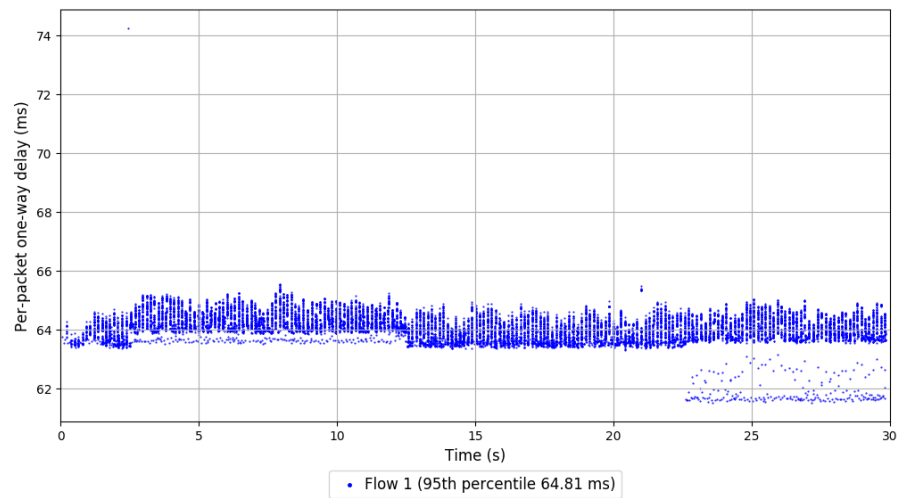
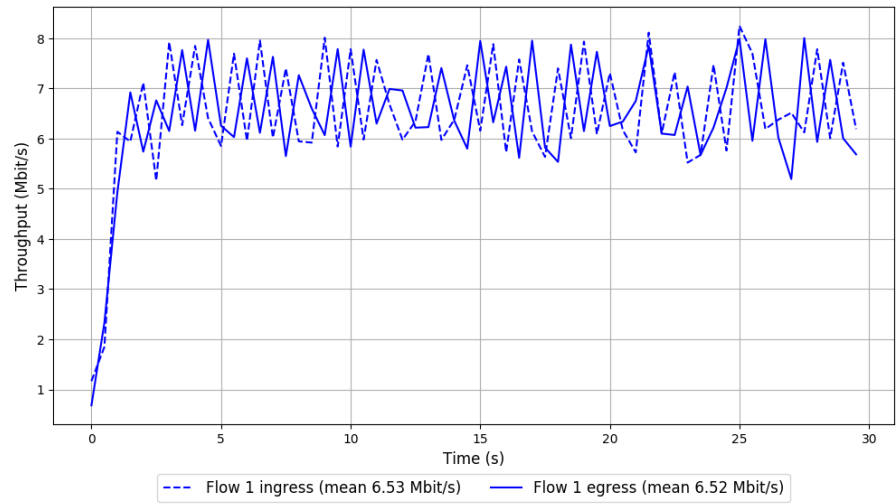
-- Flow 1:

Average throughput: 6.52 Mbit/s

95th percentile per-packet one-way delay: 64.813 ms

Loss rate: 0.59%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-20 10:17:31

End at: 2018-02-20 10:18:01

Below is generated by plot.py at 2018-02-20 14:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.56 Mbit/s

95th percentile per-packet one-way delay: 64.376 ms

Loss rate: 0.50%

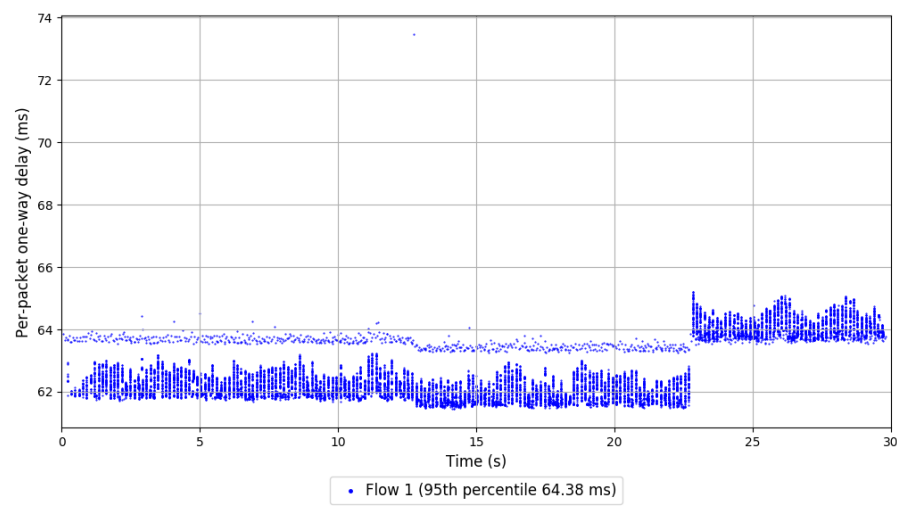
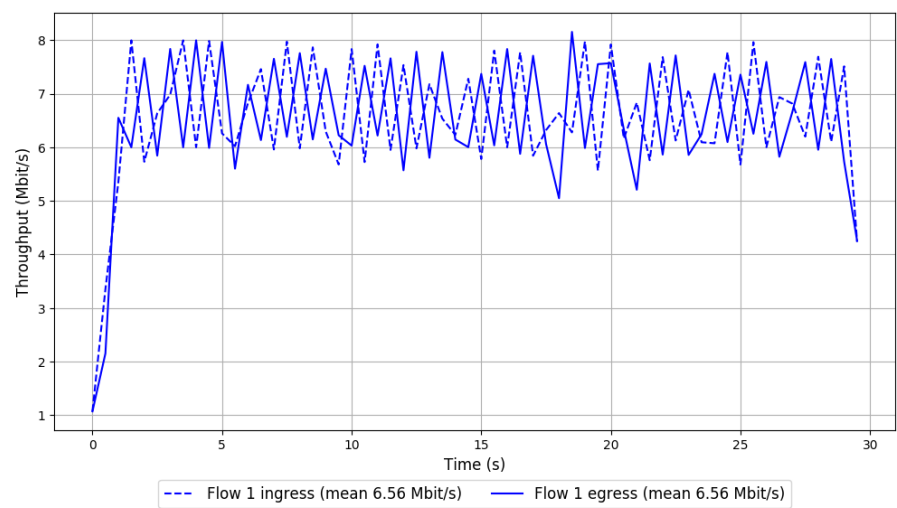
-- Flow 1:

Average throughput: 6.56 Mbit/s

95th percentile per-packet one-way delay: 64.376 ms

Loss rate: 0.50%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-20 10:31:54

End at: 2018-02-20 10:32:24

Below is generated by plot.py at 2018-02-20 14:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.19 Mbit/s

95th percentile per-packet one-way delay: 63.927 ms

Loss rate: 0.46%

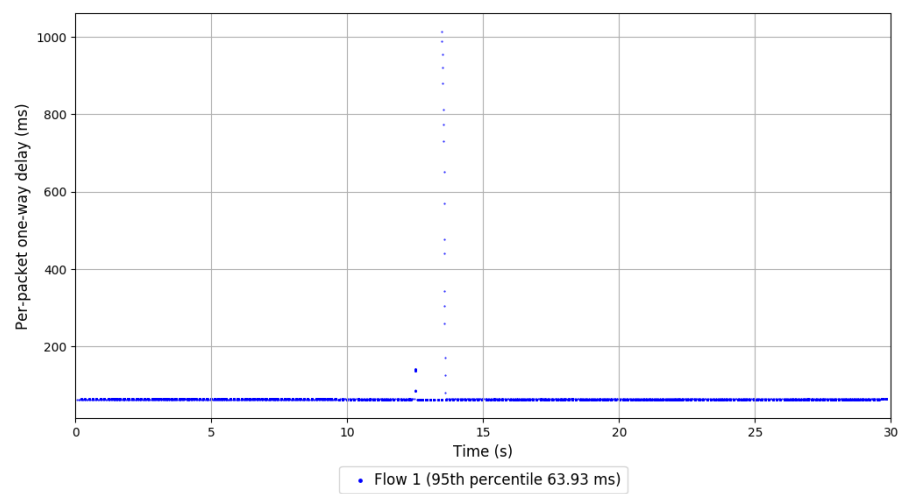
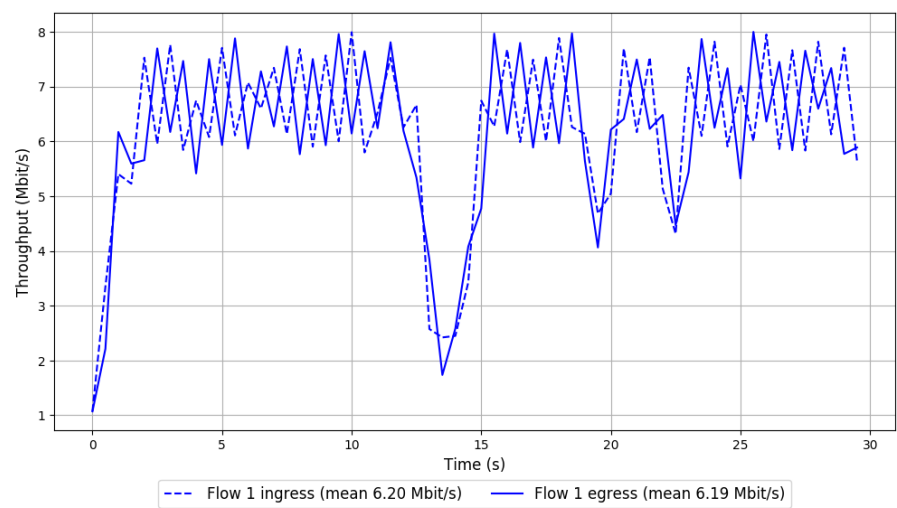
-- Flow 1:

Average throughput: 6.19 Mbit/s

95th percentile per-packet one-way delay: 63.927 ms

Loss rate: 0.46%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-20 10:46:39

End at: 2018-02-20 10:47:09

Below is generated by plot.py at 2018-02-20 14:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.59 Mbit/s

95th percentile per-packet one-way delay: 64.475 ms

Loss rate: 0.00%

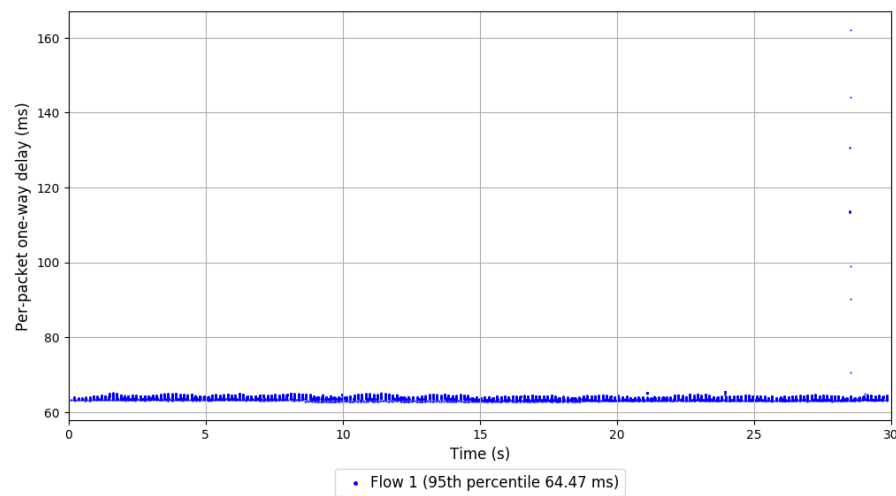
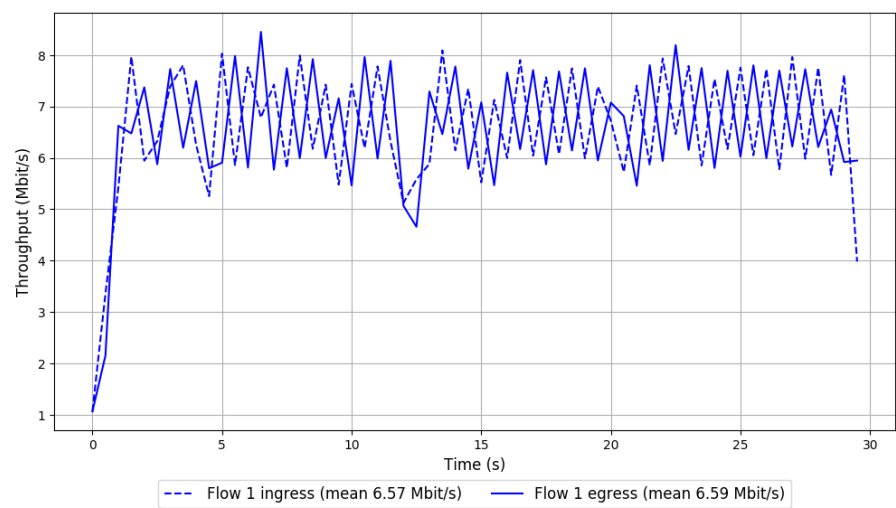
-- Flow 1:

Average throughput: 6.59 Mbit/s

95th percentile per-packet one-way delay: 64.475 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-20 11:01:15

End at: 2018-02-20 11:01:45

Below is generated by plot.py at 2018-02-20 14:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.39 Mbit/s

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

Loss rate: 0.52%

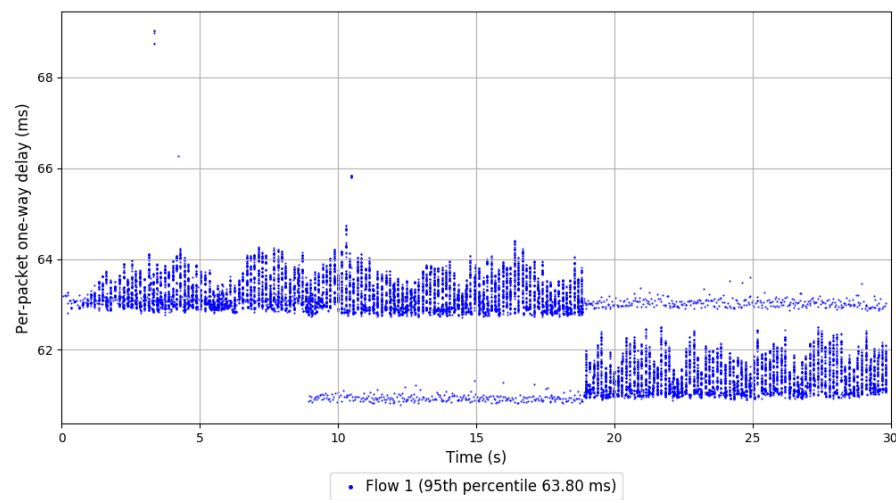
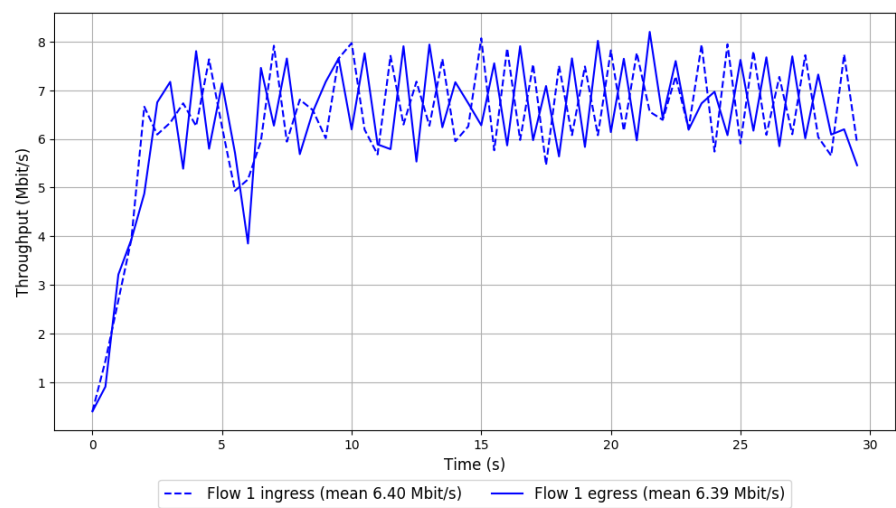
-- Flow 1:

Average throughput: 6.39 Mbit/s

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

Loss rate: 0.52%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-20 11:15:48

End at: 2018-02-20 11:16:18

Below is generated by plot.py at 2018-02-20 14:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.43 Mbit/s

95th percentile per-packet one-way delay: 63.924 ms

Loss rate: 0.45%

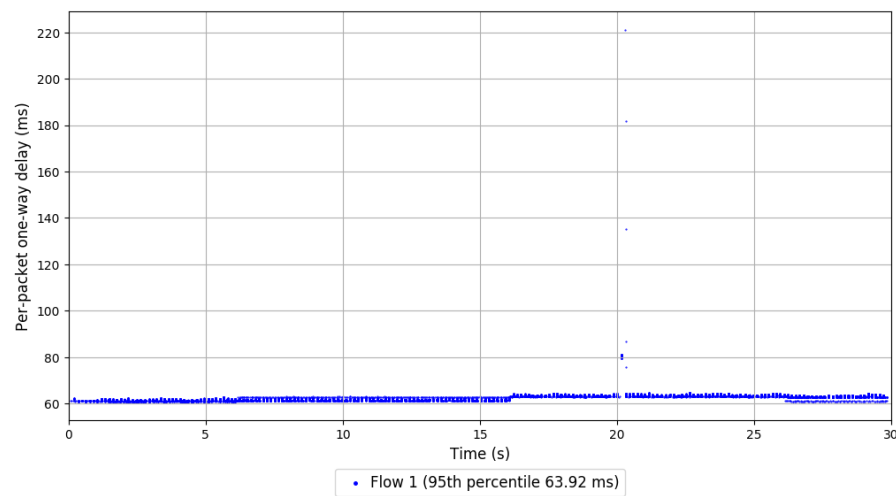
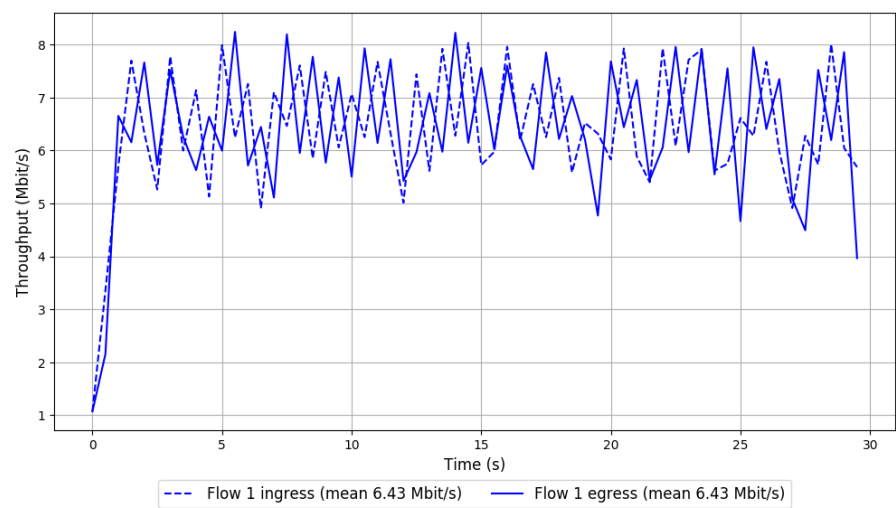
-- Flow 1:

Average throughput: 6.43 Mbit/s

95th percentile per-packet one-way delay: 63.924 ms

Loss rate: 0.45%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-20 11:30:37

End at: 2018-02-20 11:31:07

Below is generated by plot.py at 2018-02-20 14:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.22 Mbit/s

95th percentile per-packet one-way delay: 64.021 ms

Loss rate: 0.53%

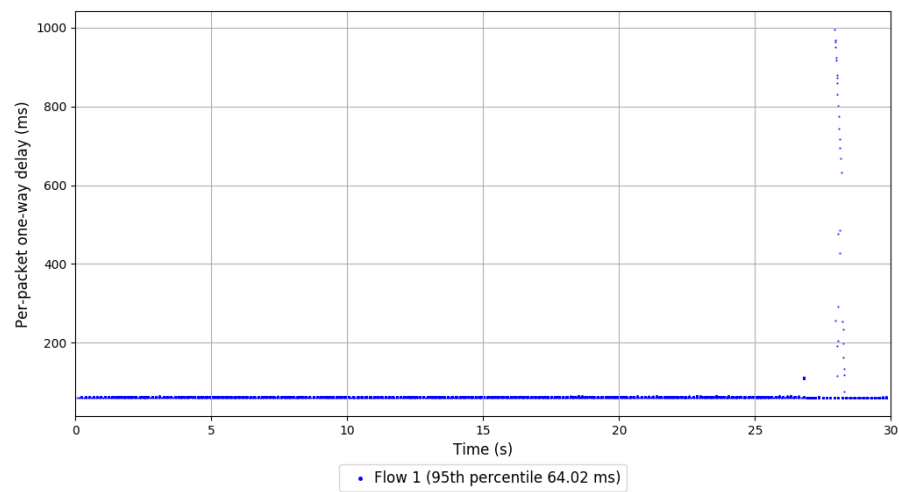
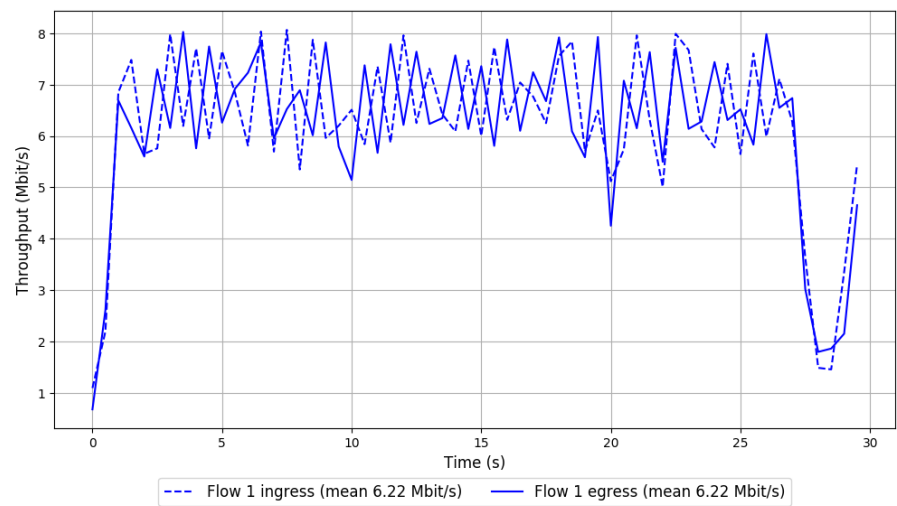
-- Flow 1:

Average throughput: 6.22 Mbit/s

95th percentile per-packet one-way delay: 64.021 ms

Loss rate: 0.53%

Run 10: Report of Sprout — Data Link

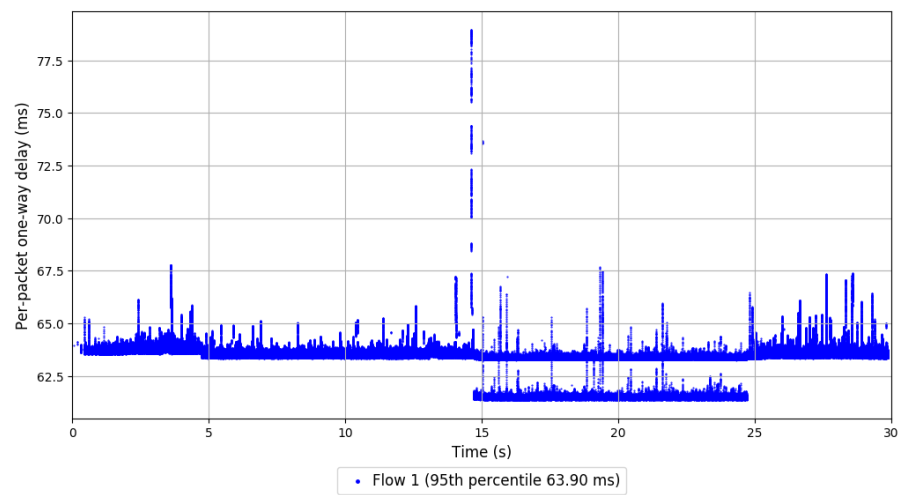
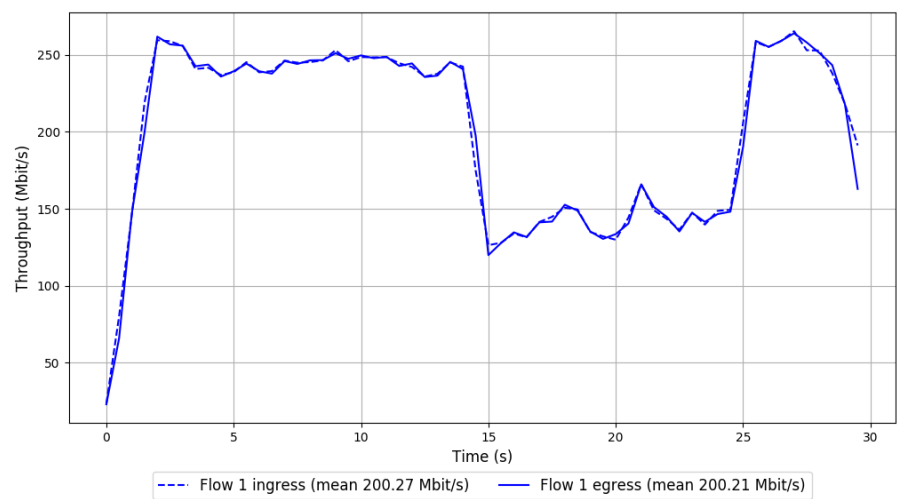


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-20 09:10:29
End at: 2018-02-20 09:10:59

# Below is generated by plot.py at 2018-02-20 14:37:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 200.21 Mbit/s
95th percentile per-packet one-way delay: 63.896 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 200.21 Mbit/s
95th percentile per-packet one-way delay: 63.896 ms
Loss rate: 0.46%
```

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

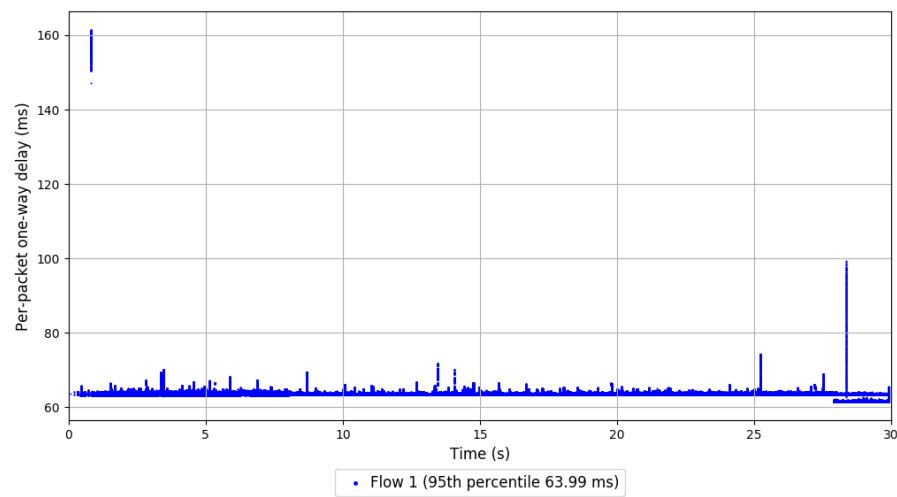
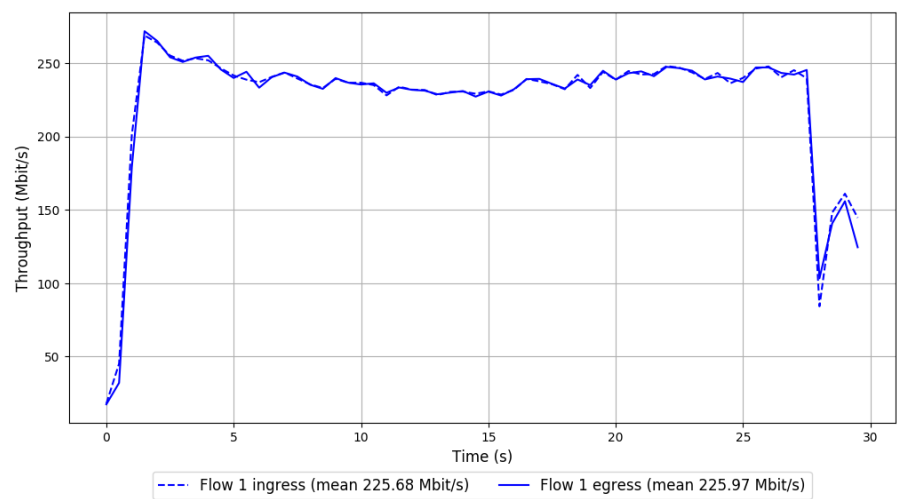


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-20 09:25:06
End at: 2018-02-20 09:25:36

# Below is generated by plot.py at 2018-02-20 14:38:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 225.97 Mbit/s
95th percentile per-packet one-way delay: 63.989 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 225.97 Mbit/s
95th percentile per-packet one-way delay: 63.989 ms
Loss rate: 0.30%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-02-20 09:39:53

End at: 2018-02-20 09:40:23

Below is generated by plot.py at 2018-02-20 14:38:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 163.77 Mbit/s

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

Loss rate: 0.47%

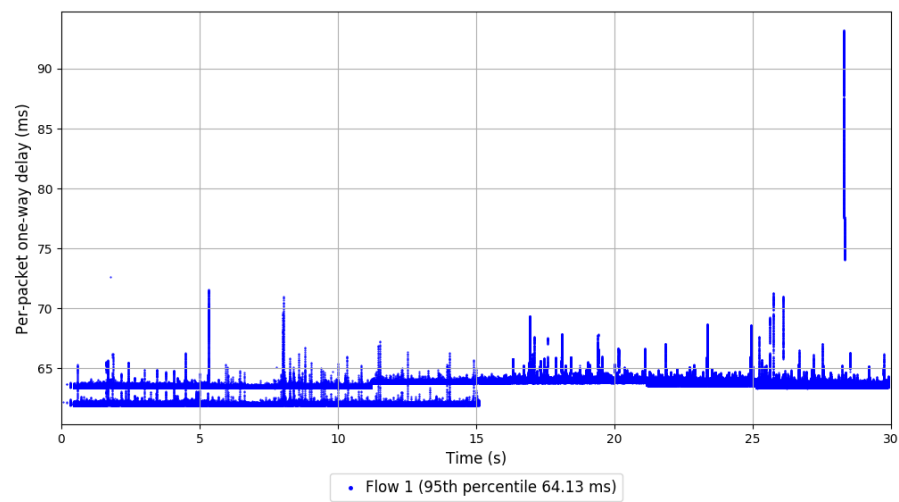
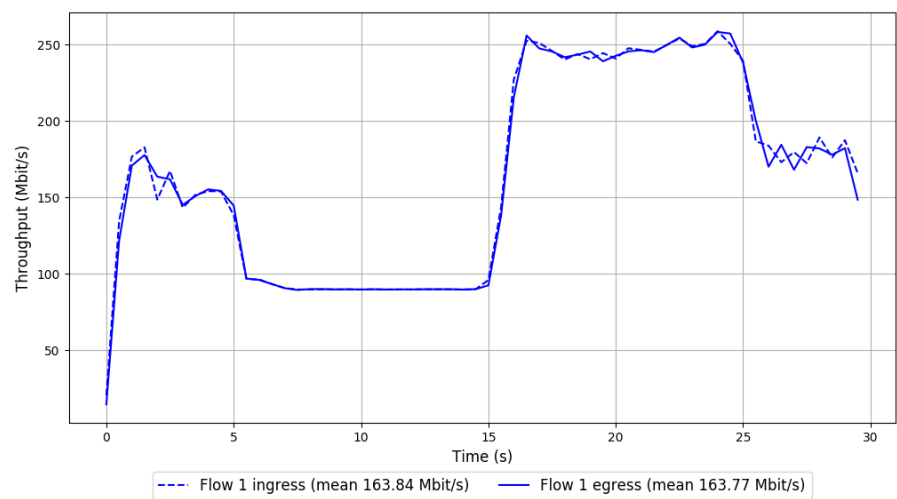
-- Flow 1:

Average throughput: 163.77 Mbit/s

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

Loss rate: 0.47%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-02-20 09:54:27

End at: 2018-02-20 09:54:57

Below is generated by plot.py at 2018-02-20 14:38:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.68 Mbit/s

95th percentile per-packet one-way delay: 63.942 ms

Loss rate: 0.58%

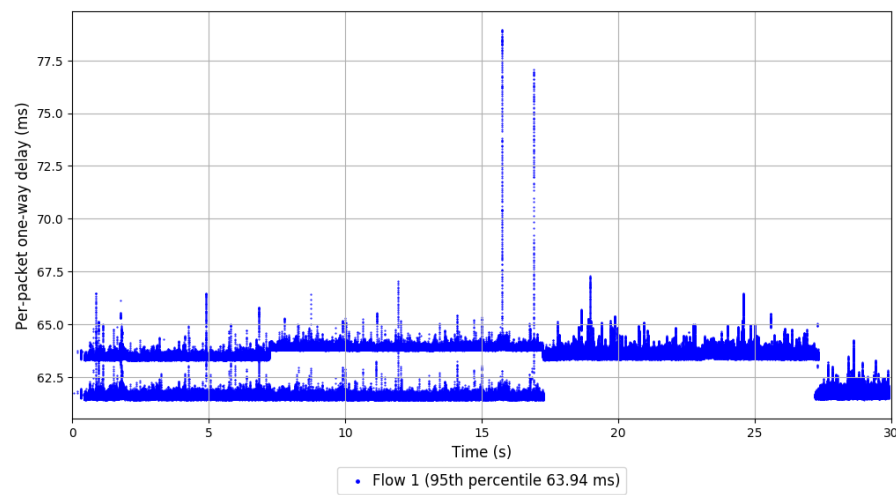
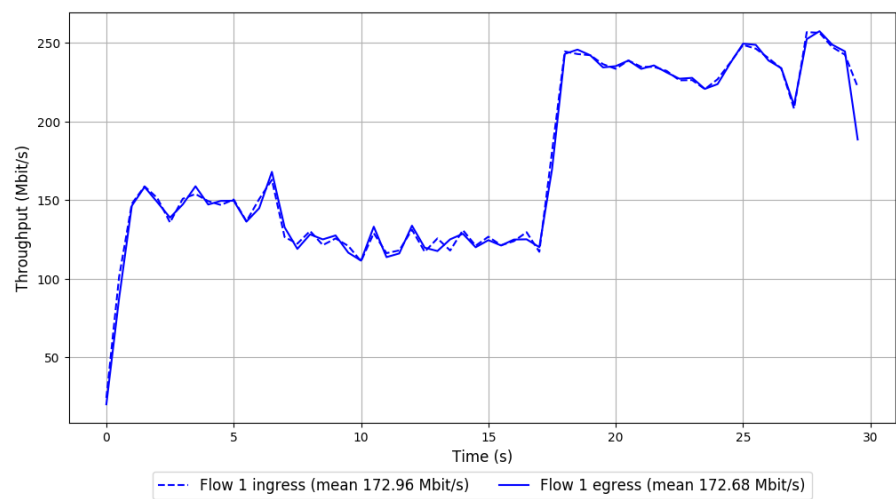
-- Flow 1:

Average throughput: 172.68 Mbit/s

95th percentile per-packet one-way delay: 63.942 ms

Loss rate: 0.58%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-20 10:08:54

End at: 2018-02-20 10:09:24

Below is generated by plot.py at 2018-02-20 14:39:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 237.25 Mbit/s

95th percentile per-packet one-way delay: 64.153 ms

Loss rate: 0.46%

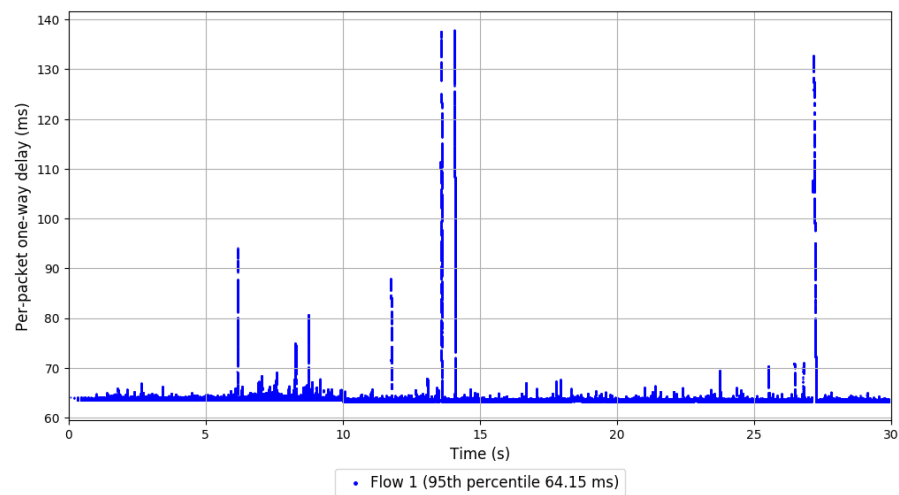
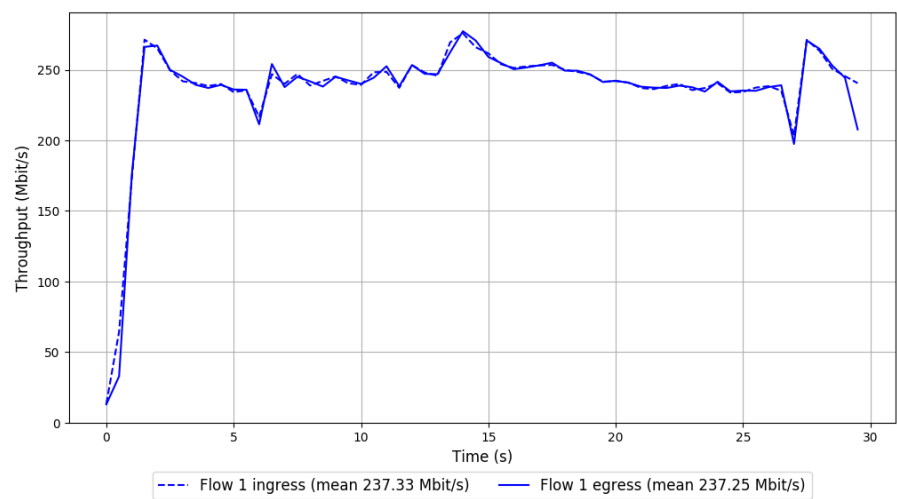
-- Flow 1:

Average throughput: 237.25 Mbit/s

95th percentile per-packet one-way delay: 64.153 ms

Loss rate: 0.46%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-20 10:23:36

End at: 2018-02-20 10:24:06

Below is generated by plot.py at 2018-02-20 14:39:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.72 Mbit/s

95th percentile per-packet one-way delay: 63.495 ms

Loss rate: 0.39%

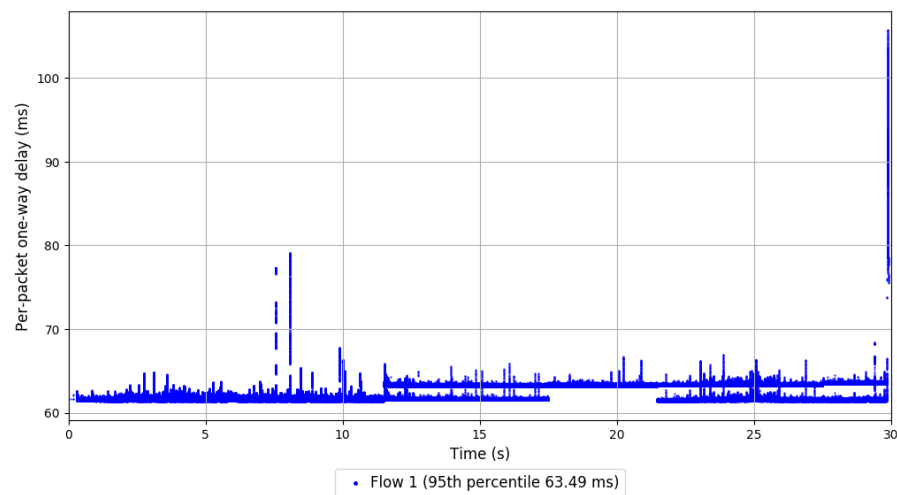
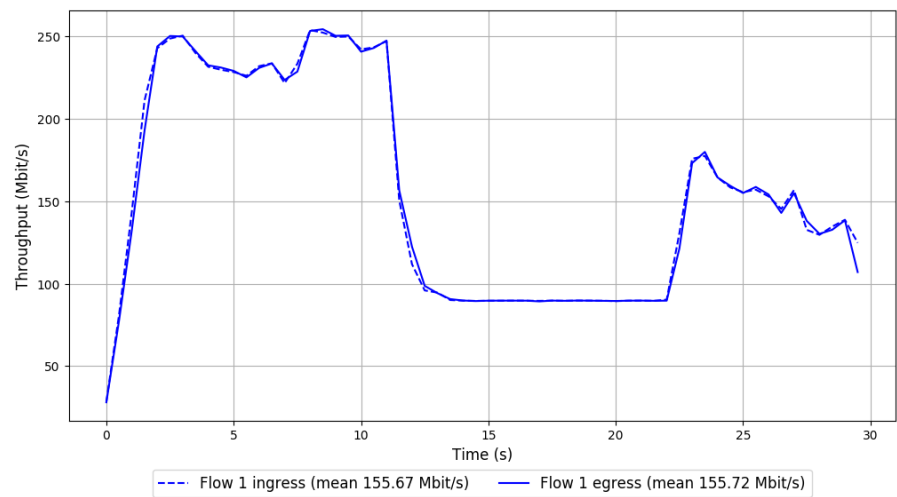
-- Flow 1:

Average throughput: 155.72 Mbit/s

95th percentile per-packet one-way delay: 63.495 ms

Loss rate: 0.39%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-20 10:38:07

End at: 2018-02-20 10:38:37

Below is generated by plot.py at 2018-02-20 14:39:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 164.07 Mbit/s

95th percentile per-packet one-way delay: 63.413 ms

Loss rate: 0.30%

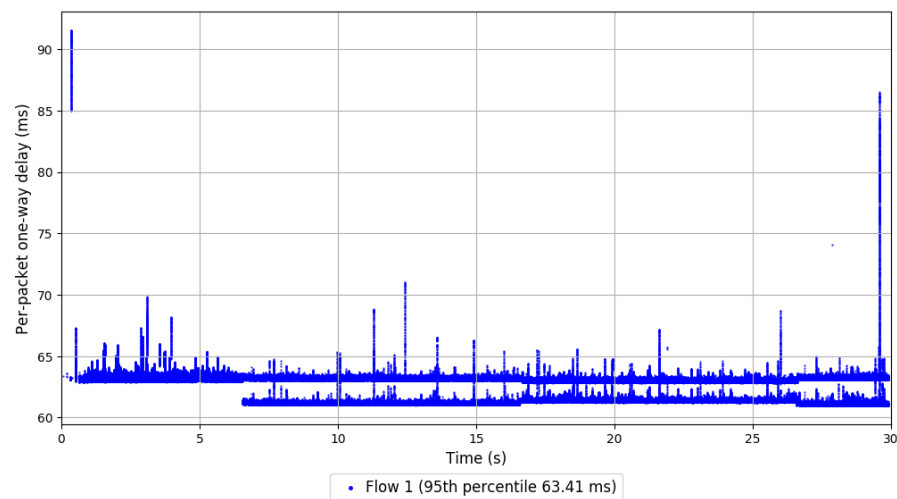
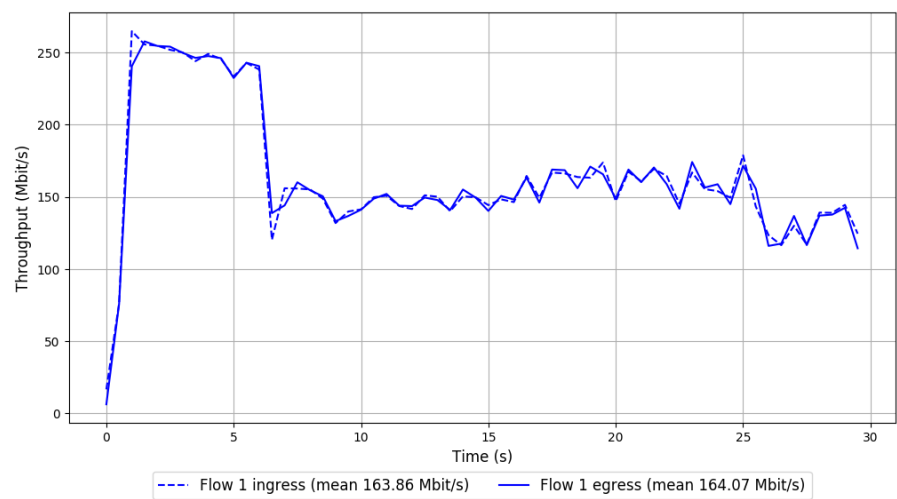
-- Flow 1:

Average throughput: 164.07 Mbit/s

95th percentile per-packet one-way delay: 63.413 ms

Loss rate: 0.30%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-20 10:52:50

End at: 2018-02-20 10:53:20

Below is generated by plot.py at 2018-02-20 14:39:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 135.01 Mbit/s

95th percentile per-packet one-way delay: 63.153 ms

Loss rate: 0.41%

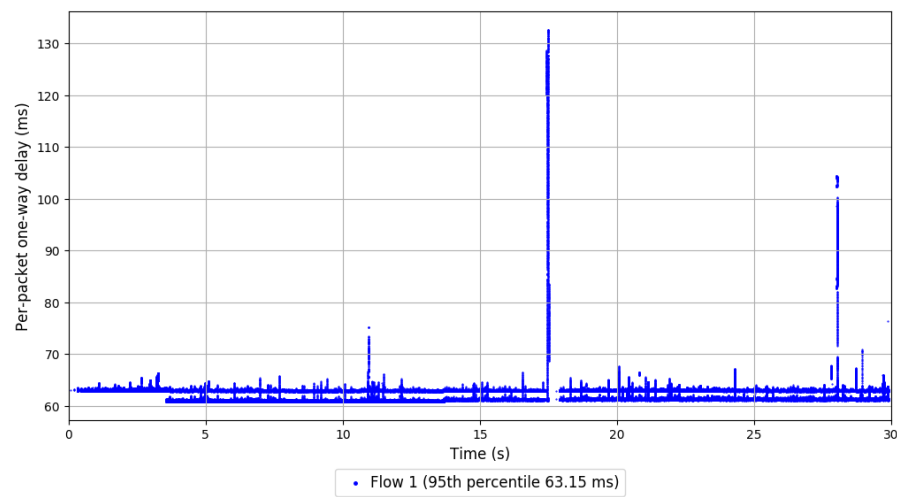
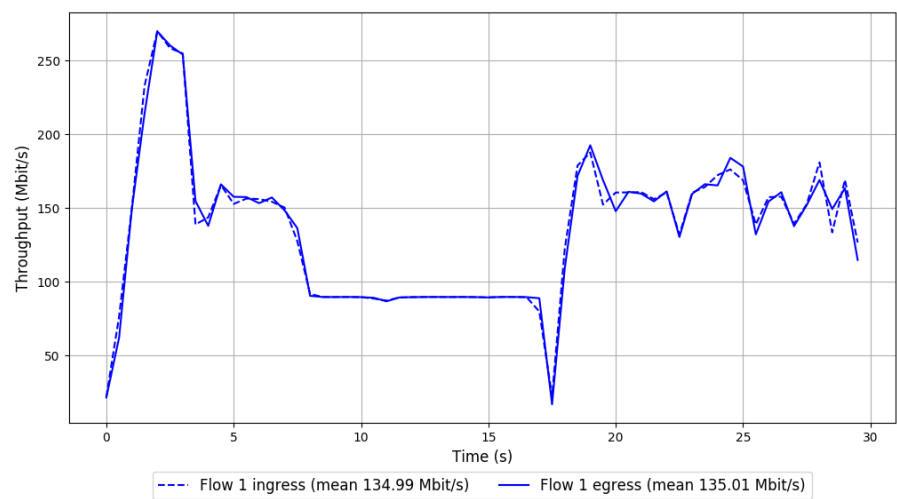
-- Flow 1:

Average throughput: 135.01 Mbit/s

95th percentile per-packet one-way delay: 63.153 ms

Loss rate: 0.41%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-20 11:07:28

End at: 2018-02-20 11:07:58

Below is generated by plot.py at 2018-02-20 14:42:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 177.08 Mbit/s

95th percentile per-packet one-way delay: 62.938 ms

Loss rate: 0.22%

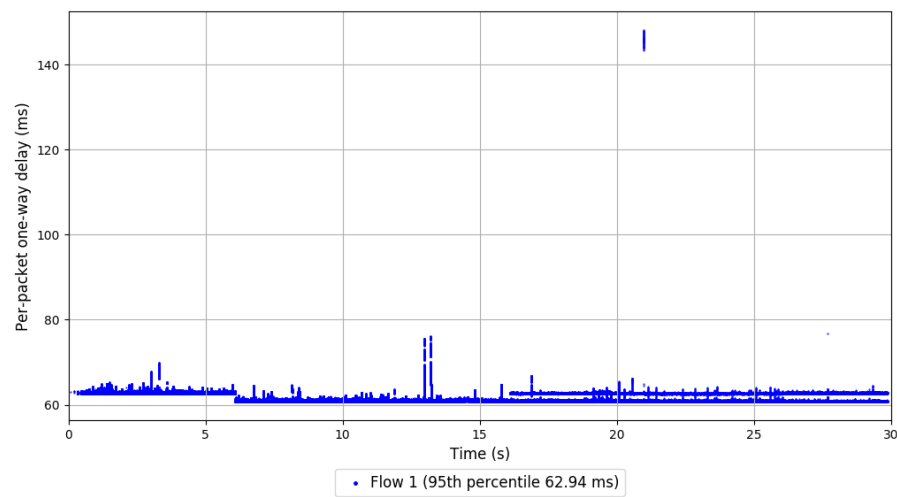
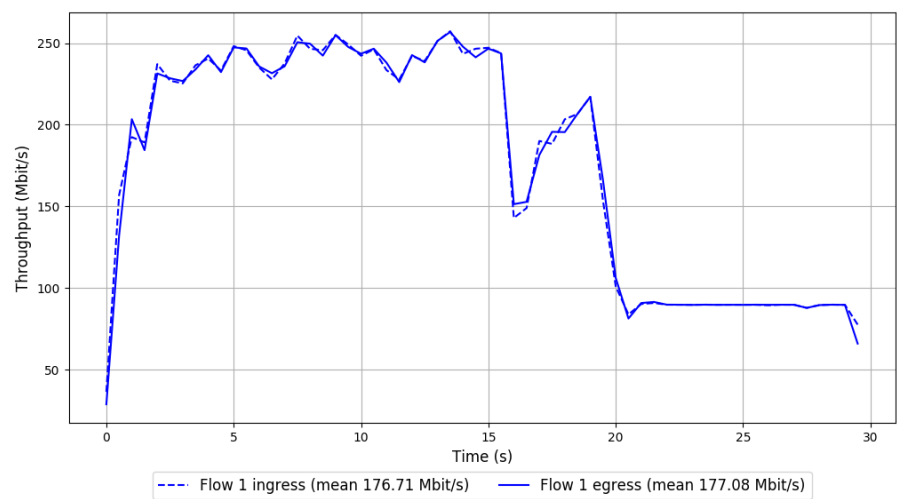
-- Flow 1:

Average throughput: 177.08 Mbit/s

95th percentile per-packet one-way delay: 62.938 ms

Loss rate: 0.22%

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

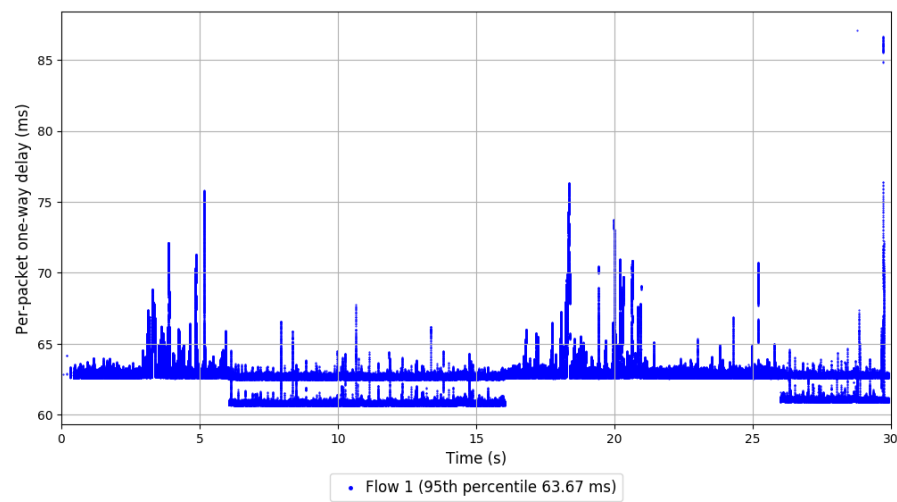
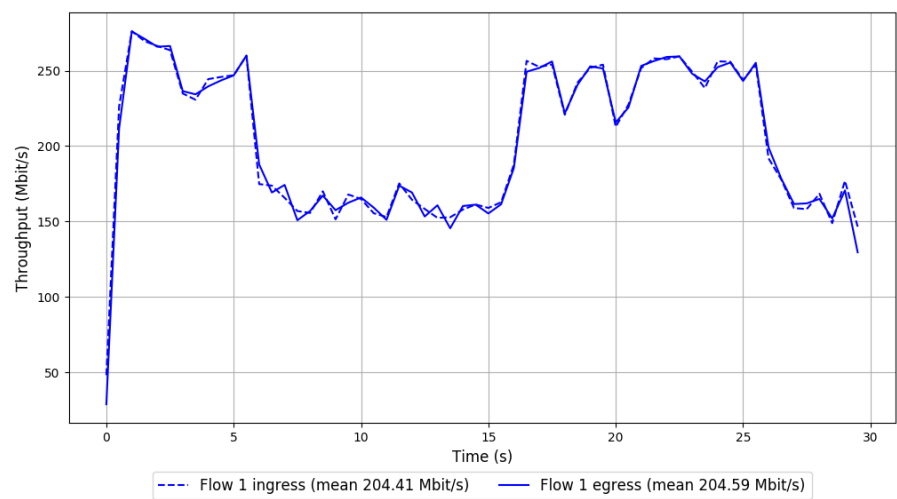


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-20 11:21:58
End at: 2018-02-20 11:22:28

# Below is generated by plot.py at 2018-02-20 14:43:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 204.59 Mbit/s
95th percentile per-packet one-way delay: 63.671 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 204.59 Mbit/s
95th percentile per-packet one-way delay: 63.671 ms
Loss rate: 0.34%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-20 09:12:10

End at: 2018-02-20 09:12:40

Below is generated by plot.py at 2018-02-20 14:43:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.29 Mbit/s

95th percentile per-packet one-way delay: 65.774 ms

Loss rate: 0.44%

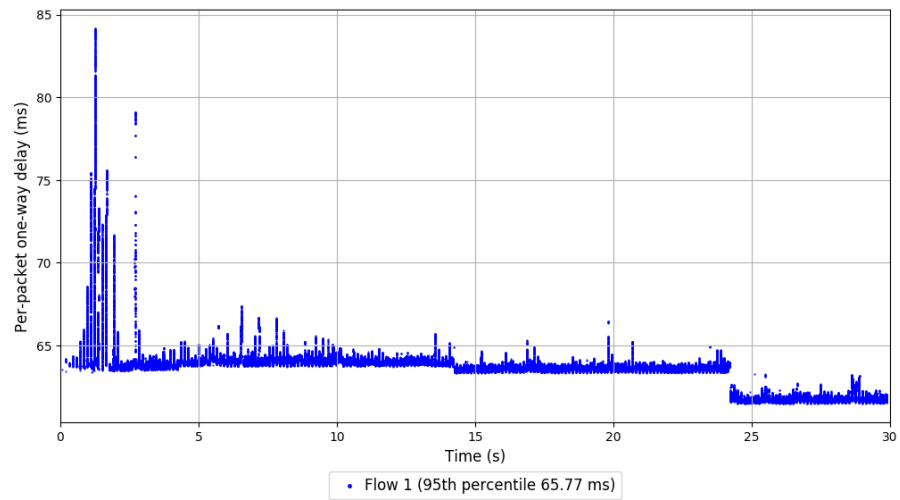
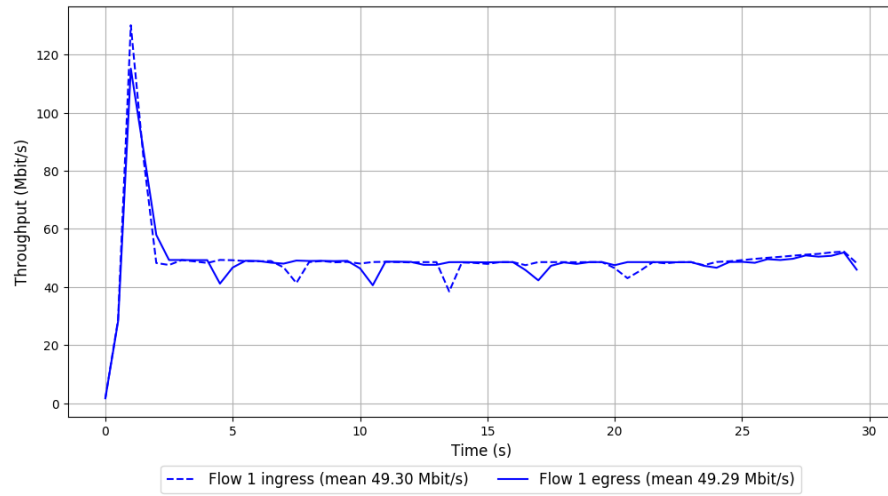
-- Flow 1:

Average throughput: 49.29 Mbit/s

95th percentile per-packet one-way delay: 65.774 ms

Loss rate: 0.44%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-20 09:26:45

End at: 2018-02-20 09:27:15

Below is generated by plot.py at 2018-02-20 14:43:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.88 Mbit/s

95th percentile per-packet one-way delay: 64.584 ms

Loss rate: 0.50%

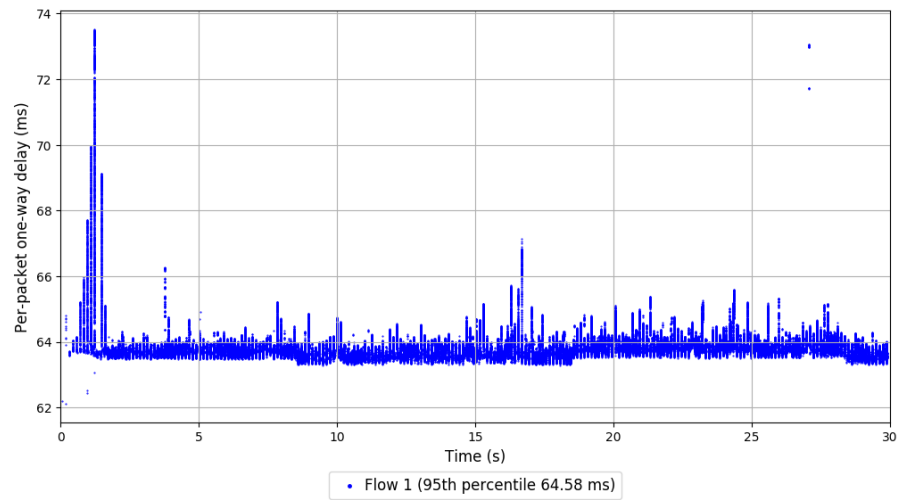
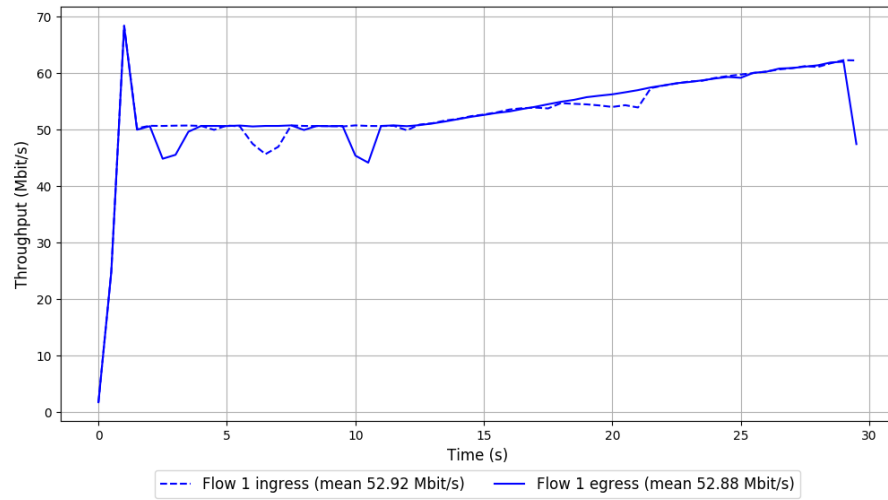
-- Flow 1:

Average throughput: 52.88 Mbit/s

95th percentile per-packet one-way delay: 64.584 ms

Loss rate: 0.50%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-20 09:41:29

End at: 2018-02-20 09:41:59

Below is generated by plot.py at 2018-02-20 14:43:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.77 Mbit/s

95th percentile per-packet one-way delay: 64.285 ms

Loss rate: 0.40%

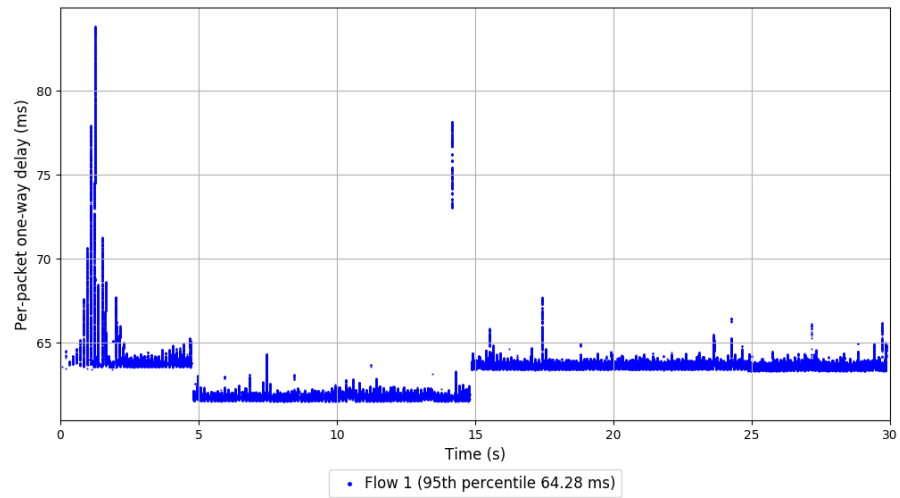
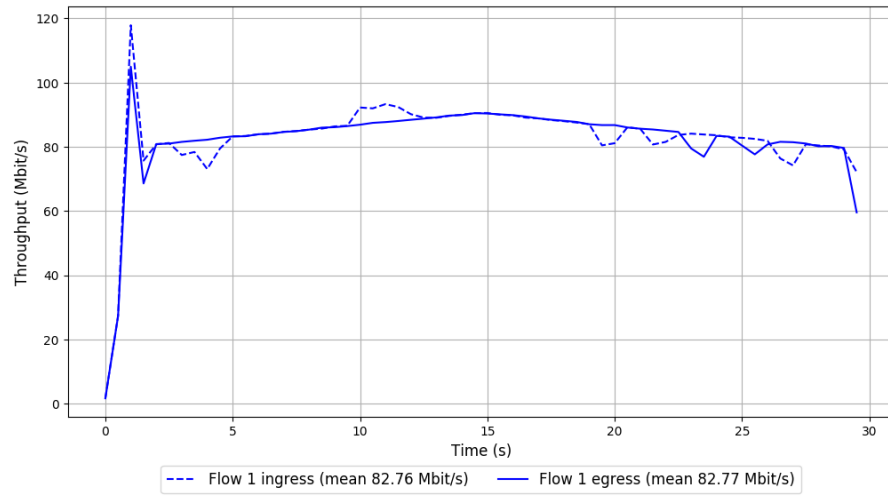
-- Flow 1:

Average throughput: 82.77 Mbit/s

95th percentile per-packet one-way delay: 64.285 ms

Loss rate: 0.40%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-20 09:56:03

End at: 2018-02-20 09:56:33

Below is generated by plot.py at 2018-02-20 14:43:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.96 Mbit/s

95th percentile per-packet one-way delay: 64.967 ms

Loss rate: 0.55%

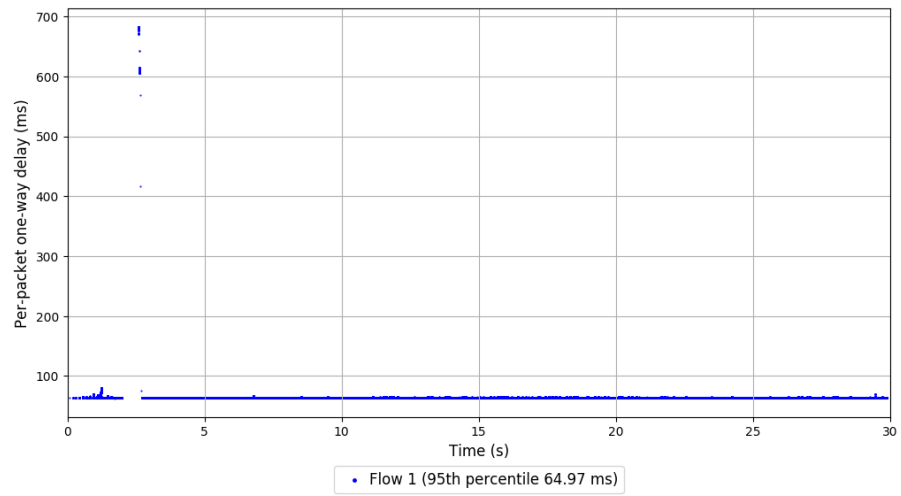
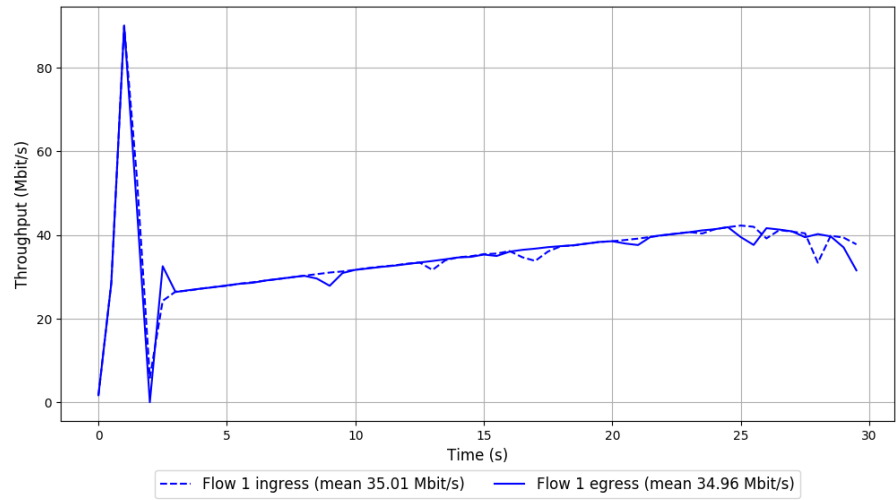
-- Flow 1:

Average throughput: 34.96 Mbit/s

95th percentile per-packet one-way delay: 64.967 ms

Loss rate: 0.55%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-20 10:10:36

End at: 2018-02-20 10:11:06

Below is generated by plot.py at 2018-02-20 14:43:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.37 Mbit/s

95th percentile per-packet one-way delay: 71.762 ms

Loss rate: 0.45%

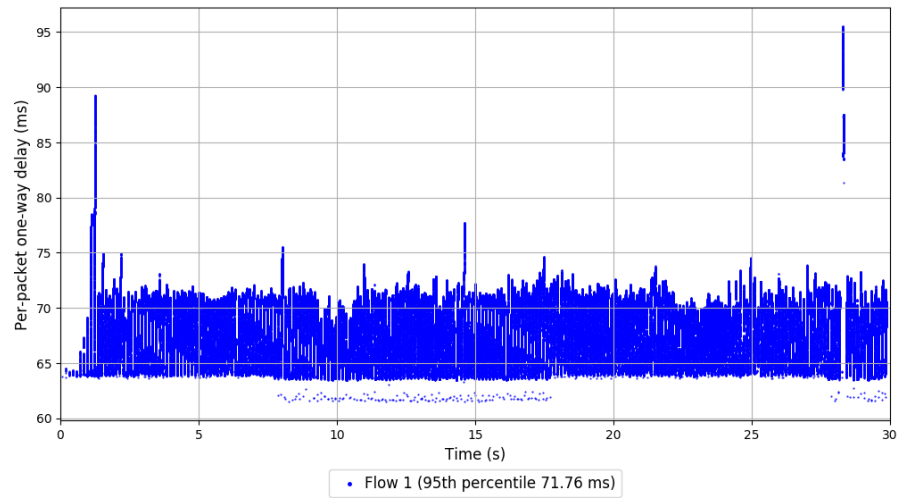
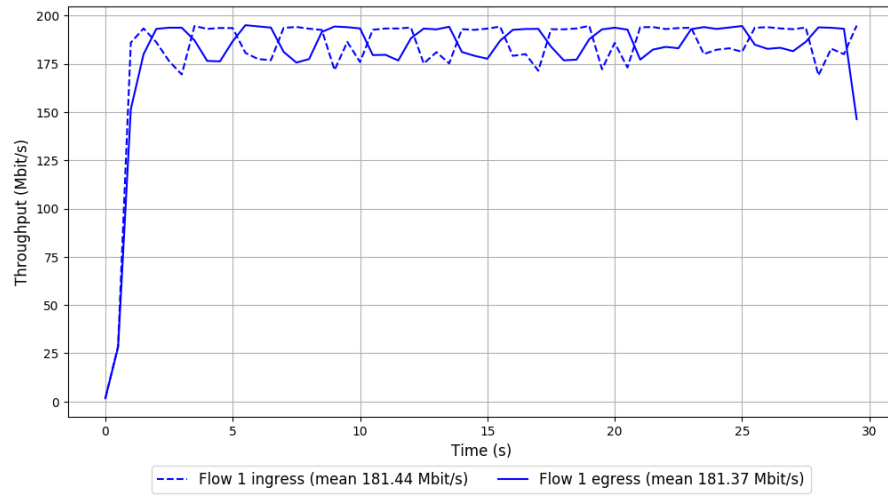
-- Flow 1:

Average throughput: 181.37 Mbit/s

95th percentile per-packet one-way delay: 71.762 ms

Loss rate: 0.45%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-20 10:25:12

End at: 2018-02-20 10:25:42

Below is generated by plot.py at 2018-02-20 14:43:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.19 Mbit/s

95th percentile per-packet one-way delay: 64.733 ms

Loss rate: 0.20%

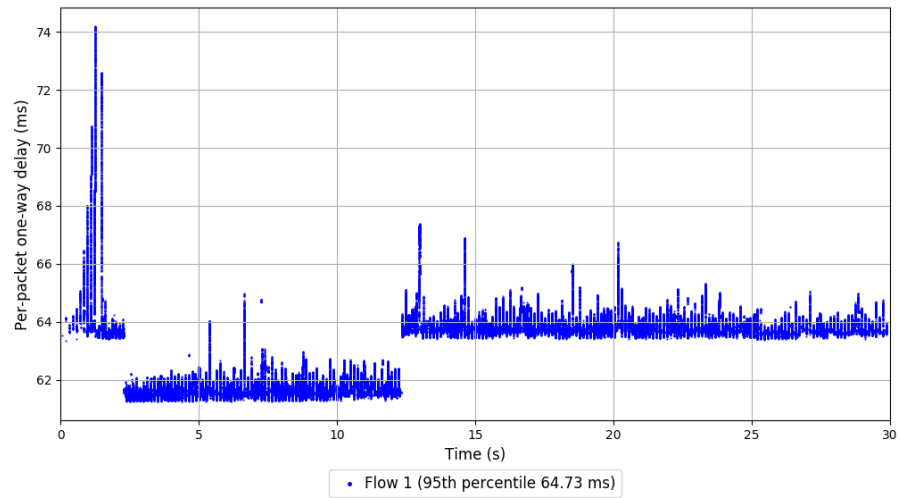
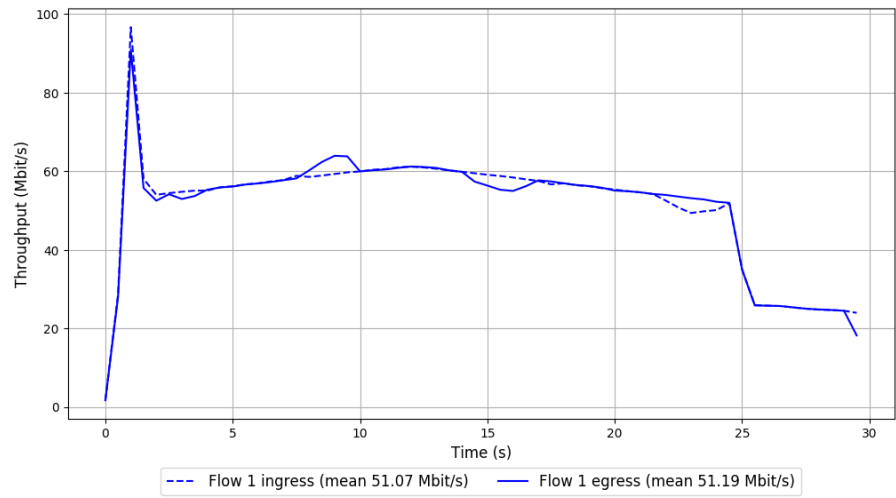
-- Flow 1:

Average throughput: 51.19 Mbit/s

95th percentile per-packet one-way delay: 64.733 ms

Loss rate: 0.20%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-20 10:39:42

End at: 2018-02-20 10:40:12

Below is generated by plot.py at 2018-02-20 14:43:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.10 Mbit/s

95th percentile per-packet one-way delay: 68.255 ms

Loss rate: 0.37%

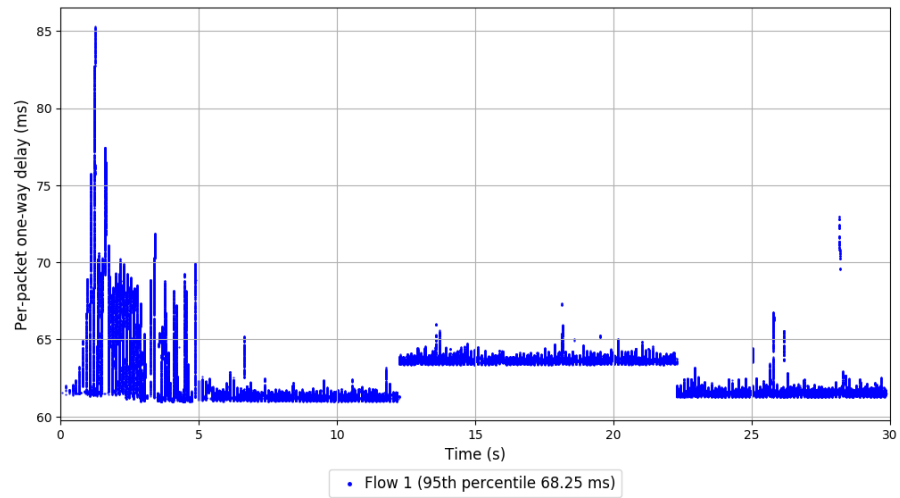
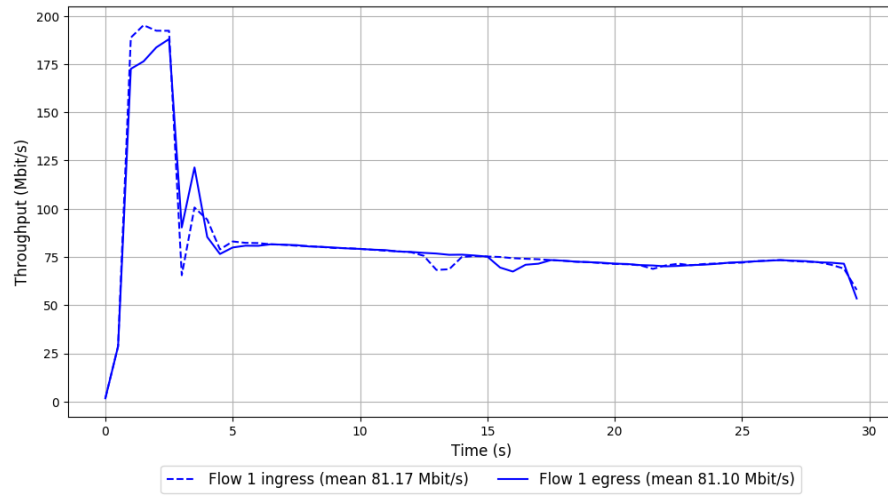
-- Flow 1:

Average throughput: 81.10 Mbit/s

95th percentile per-packet one-way delay: 68.255 ms

Loss rate: 0.37%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-20 10:54:23

End at: 2018-02-20 10:54:53

Below is generated by plot.py at 2018-02-20 14:43:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.43 Mbit/s

95th percentile per-packet one-way delay: 63.692 ms

Loss rate: 0.41%

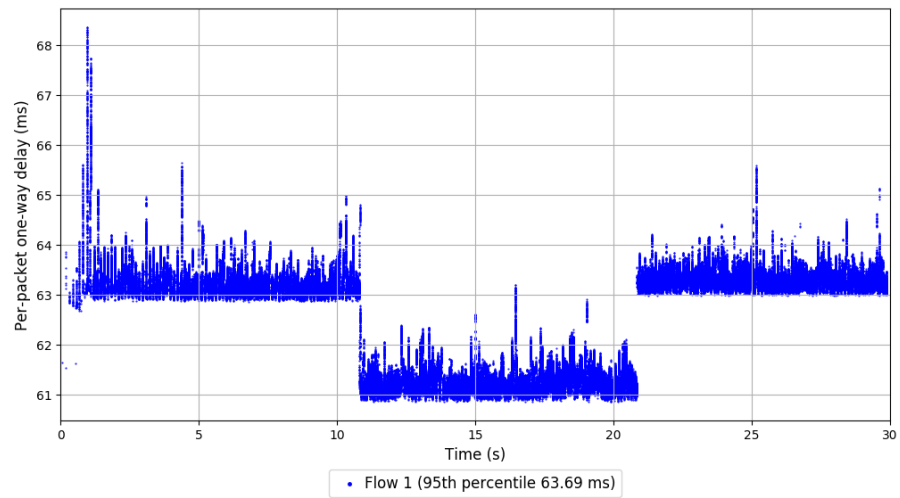
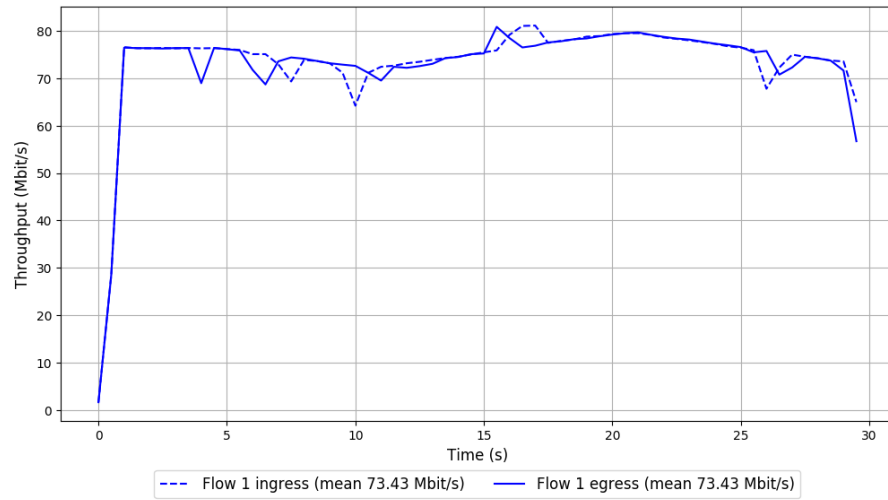
-- Flow 1:

Average throughput: 73.43 Mbit/s

95th percentile per-packet one-way delay: 63.692 ms

Loss rate: 0.41%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-20 11:09:08

End at: 2018-02-20 11:09:38

Below is generated by plot.py at 2018-02-20 14:43:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.53 Mbit/s

95th percentile per-packet one-way delay: 62.961 ms

Loss rate: 0.22%

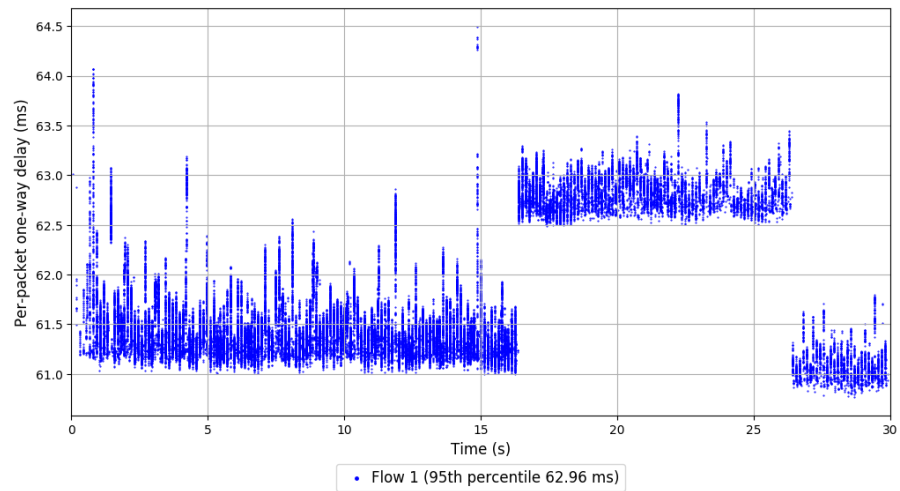
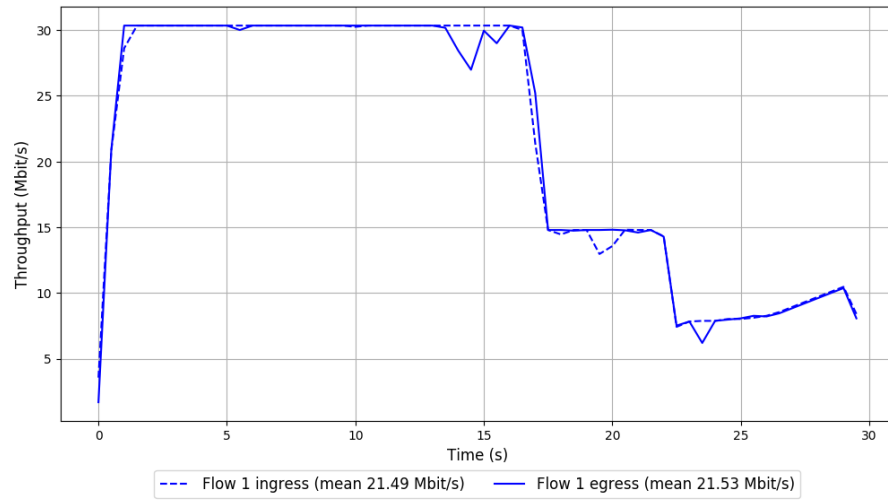
-- Flow 1:

Average throughput: 21.53 Mbit/s

95th percentile per-packet one-way delay: 62.961 ms

Loss rate: 0.22%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-20 11:23:36

End at: 2018-02-20 11:24:06

Below is generated by plot.py at 2018-02-20 14:43:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.71 Mbit/s

95th percentile per-packet one-way delay: 71.623 ms

Loss rate: 0.22%

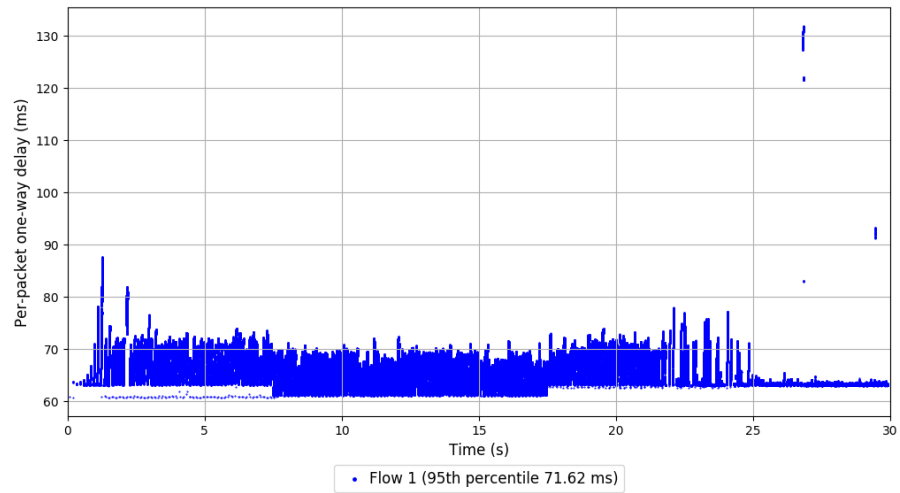
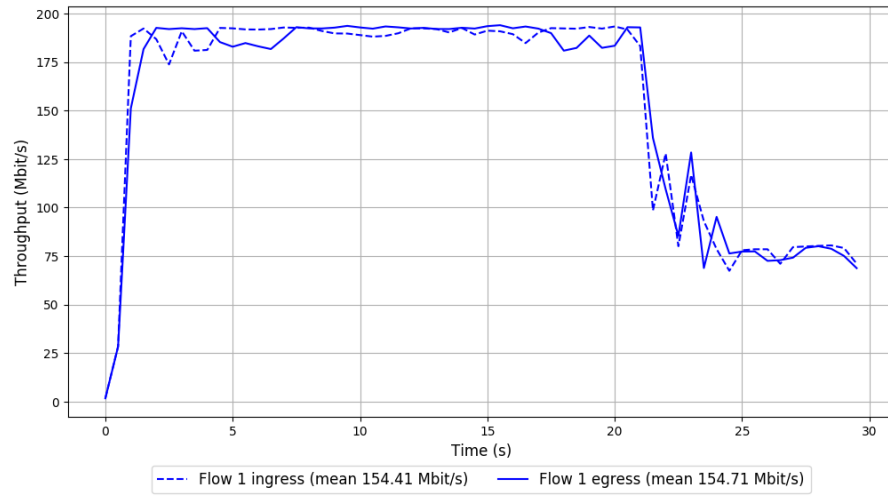
-- Flow 1:

Average throughput: 154.71 Mbit/s

95th percentile per-packet one-way delay: 71.623 ms

Loss rate: 0.22%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-02-20 09:12:50

End at: 2018-02-20 09:13:20

Below is generated by plot.py at 2018-02-20 14:44:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 229.25 Mbit/s

95th percentile per-packet one-way delay: 100.130 ms

Loss rate: 0.74%

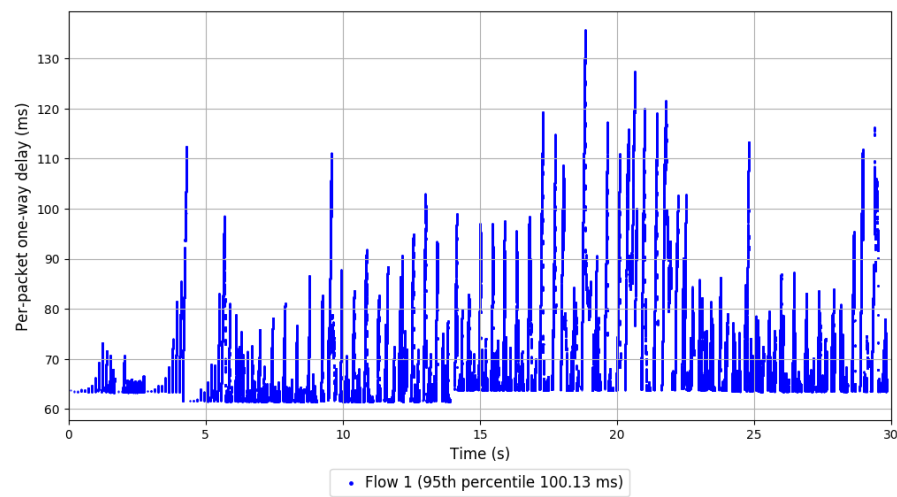
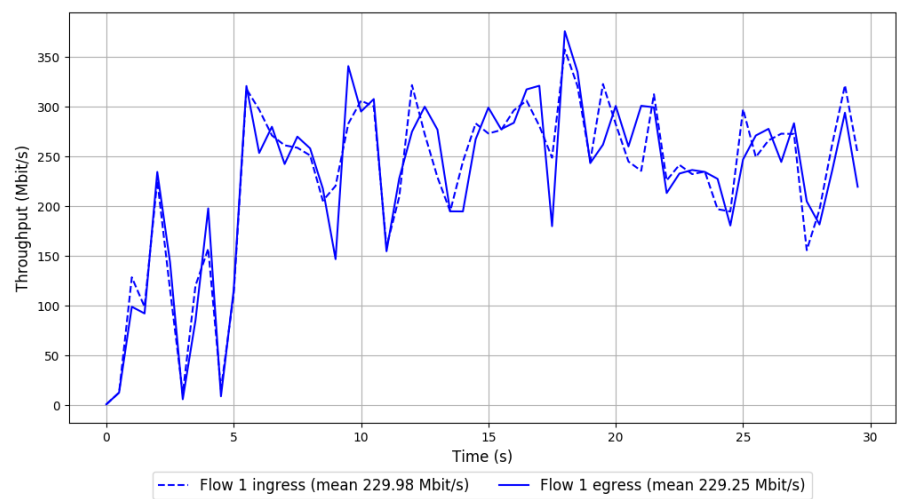
-- Flow 1:

Average throughput: 229.25 Mbit/s

95th percentile per-packet one-way delay: 100.130 ms

Loss rate: 0.74%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-20 09:27:26

End at: 2018-02-20 09:27:56

Below is generated by plot.py at 2018-02-20 14:44:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 256.49 Mbit/s

95th percentile per-packet one-way delay: 93.687 ms

Loss rate: 0.78%

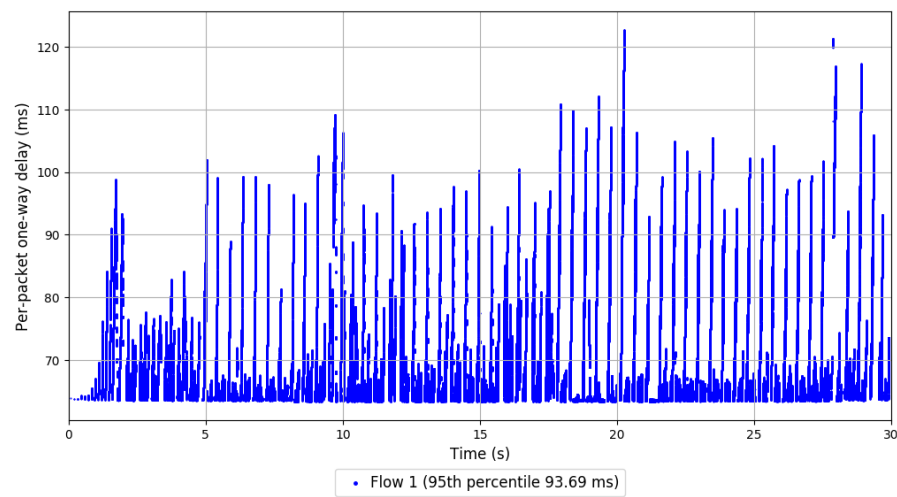
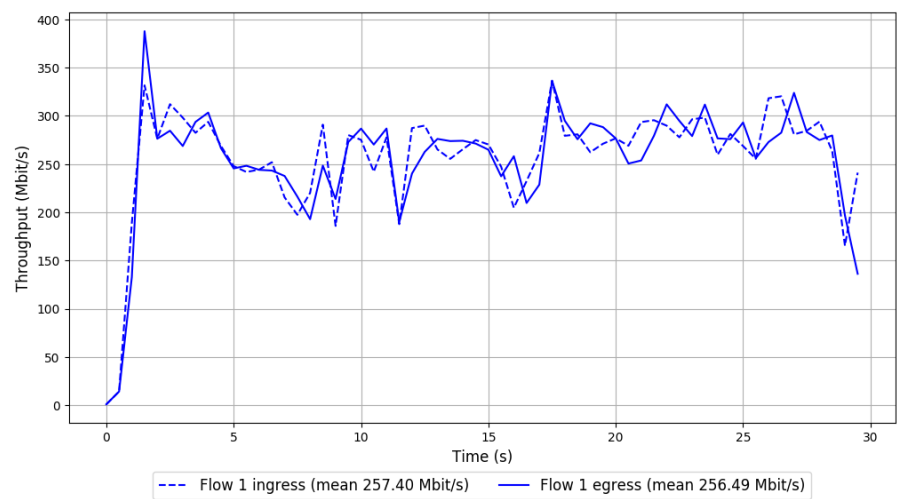
-- Flow 1:

Average throughput: 256.49 Mbit/s

95th percentile per-packet one-way delay: 93.687 ms

Loss rate: 0.78%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-20 09:42:11

End at: 2018-02-20 09:42:41

Below is generated by plot.py at 2018-02-20 14:44:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.28 Mbit/s

95th percentile per-packet one-way delay: 93.286 ms

Loss rate: 0.00%

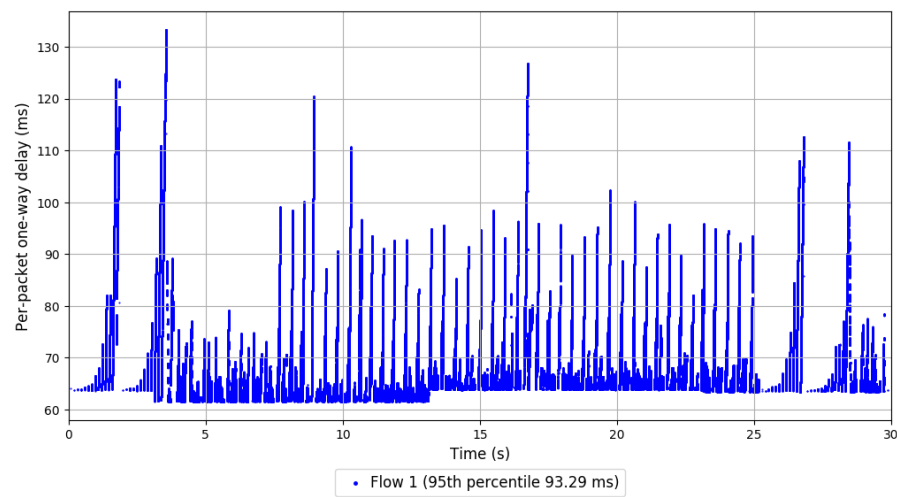
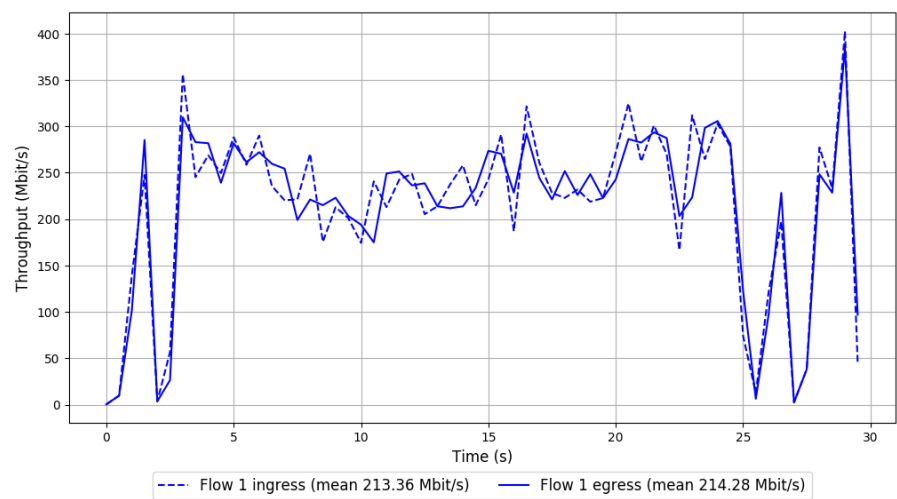
-- Flow 1:

Average throughput: 214.28 Mbit/s

95th percentile per-packet one-way delay: 93.286 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-20 09:56:42

End at: 2018-02-20 09:57:12

Below is generated by plot.py at 2018-02-20 14:44:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.38 Mbit/s

95th percentile per-packet one-way delay: 82.816 ms

Loss rate: 0.84%

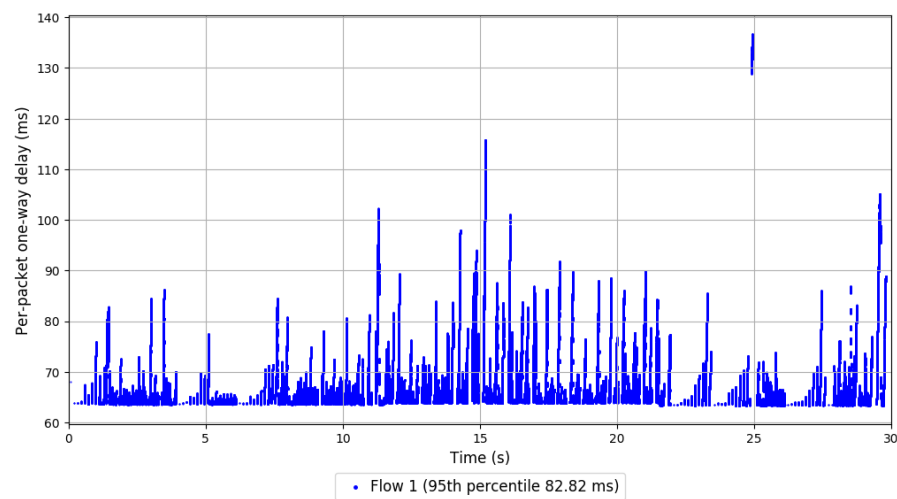
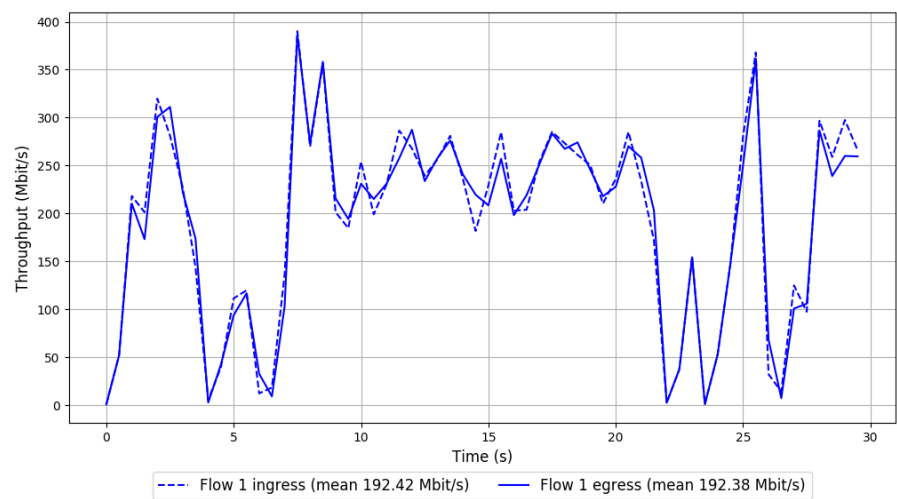
-- Flow 1:

Average throughput: 192.38 Mbit/s

95th percentile per-packet one-way delay: 82.816 ms

Loss rate: 0.84%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-20 10:11:23

End at: 2018-02-20 10:11:53

Below is generated by plot.py at 2018-02-20 14:46:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 255.76 Mbit/s

95th percentile per-packet one-way delay: 86.988 ms

Loss rate: 0.67%

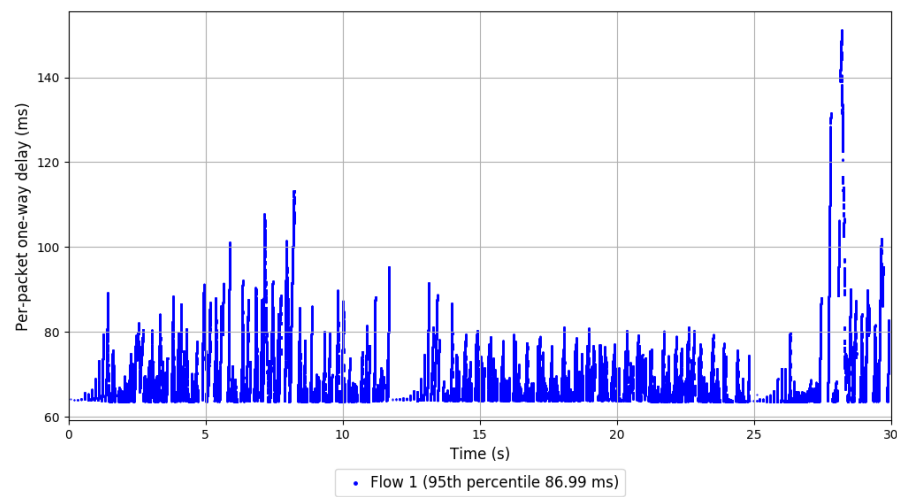
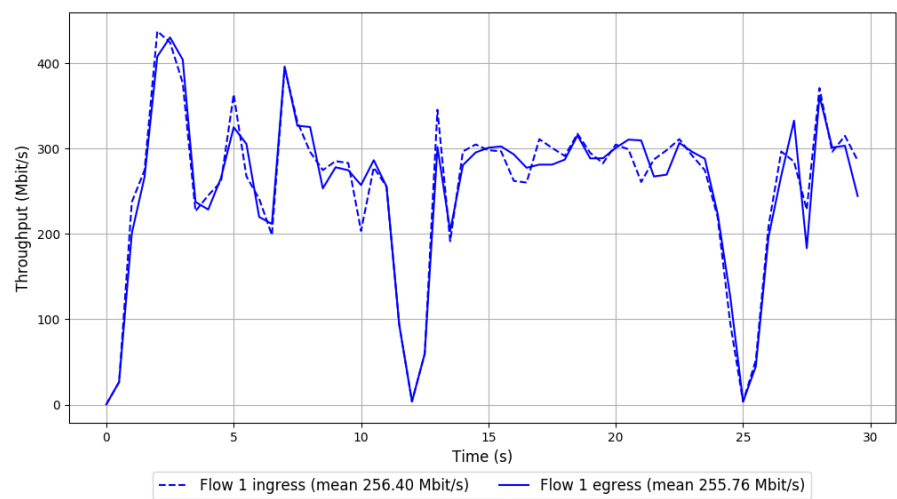
-- Flow 1:

Average throughput: 255.76 Mbit/s

95th percentile per-packet one-way delay: 86.988 ms

Loss rate: 0.67%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-20 10:25:52

End at: 2018-02-20 10:26:22

Below is generated by plot.py at 2018-02-20 14:46:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.40 Mbit/s

95th percentile per-packet one-way delay: 96.493 ms

Loss rate: 0.78%

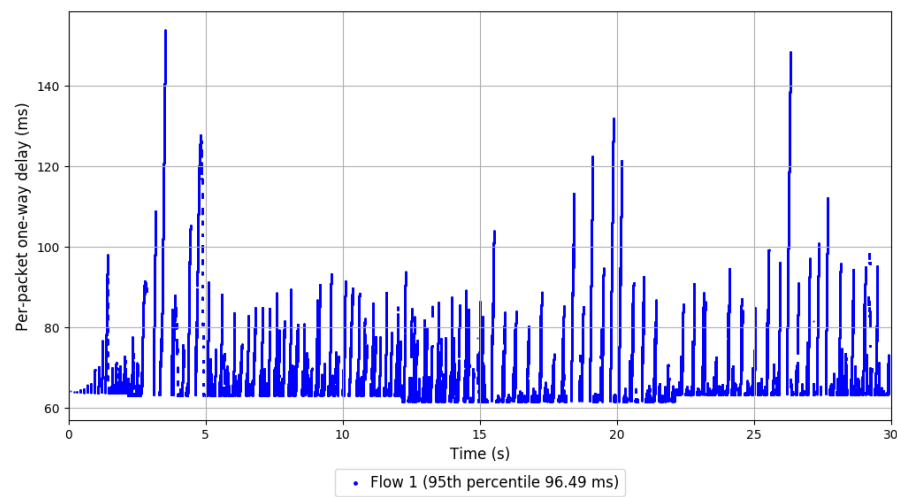
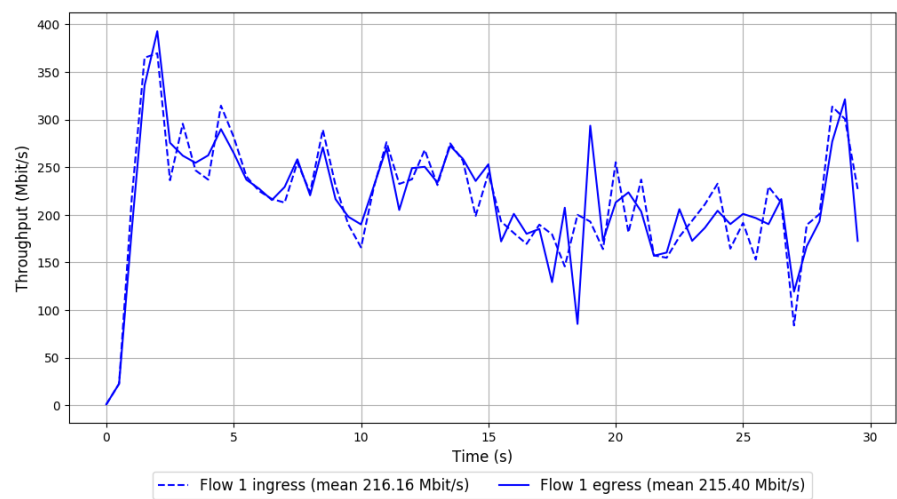
-- Flow 1:

Average throughput: 215.40 Mbit/s

95th percentile per-packet one-way delay: 96.493 ms

Loss rate: 0.78%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-20 10:40:23

End at: 2018-02-20 10:40:53

Below is generated by plot.py at 2018-02-20 14:46:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.31 Mbit/s

95th percentile per-packet one-way delay: 137.067 ms

Loss rate: 0.86%

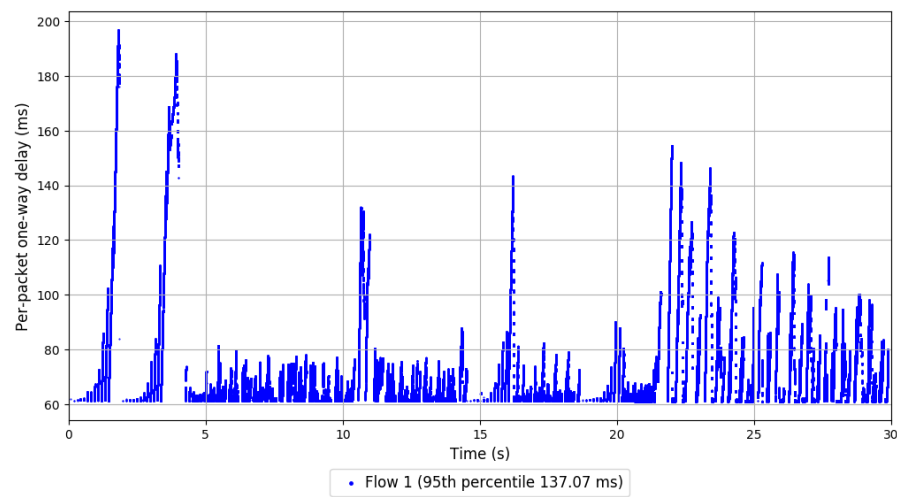
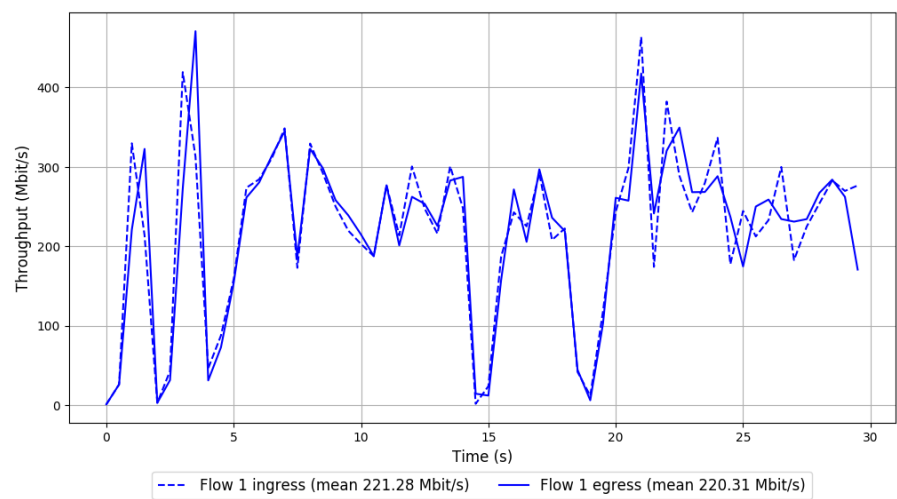
-- Flow 1:

Average throughput: 220.31 Mbit/s

95th percentile per-packet one-way delay: 137.067 ms

Loss rate: 0.86%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-20 10:55:04

End at: 2018-02-20 10:55:34

Below is generated by plot.py at 2018-02-20 14:48:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 274.97 Mbit/s

95th percentile per-packet one-way delay: 175.575 ms

Loss rate: 0.64%

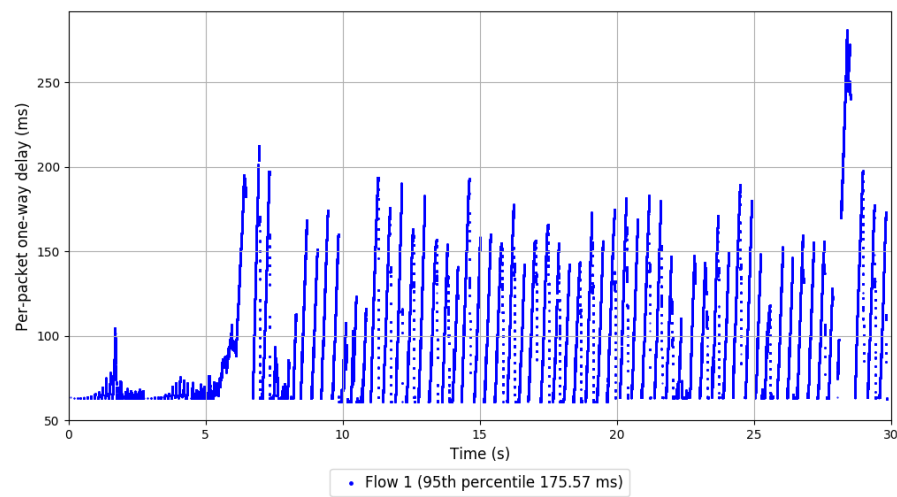
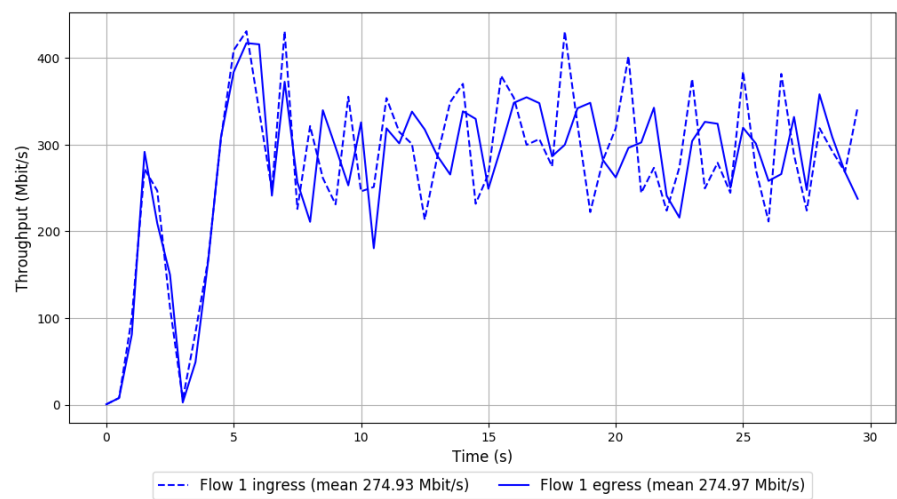
-- Flow 1:

Average throughput: 274.97 Mbit/s

95th percentile per-packet one-way delay: 175.575 ms

Loss rate: 0.64%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-20 11:09:46

End at: 2018-02-20 11:10:16

Below is generated by plot.py at 2018-02-20 14:48:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 259.34 Mbit/s

95th percentile per-packet one-way delay: 78.243 ms

Loss rate: 1.12%

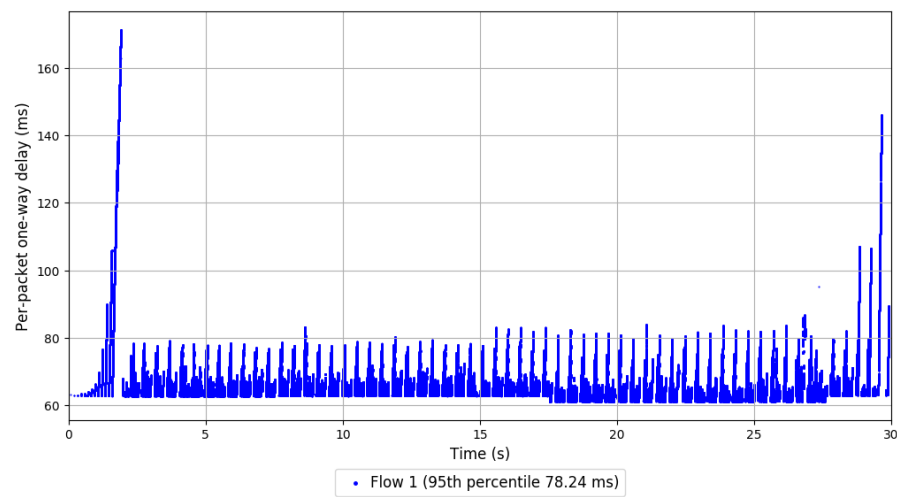
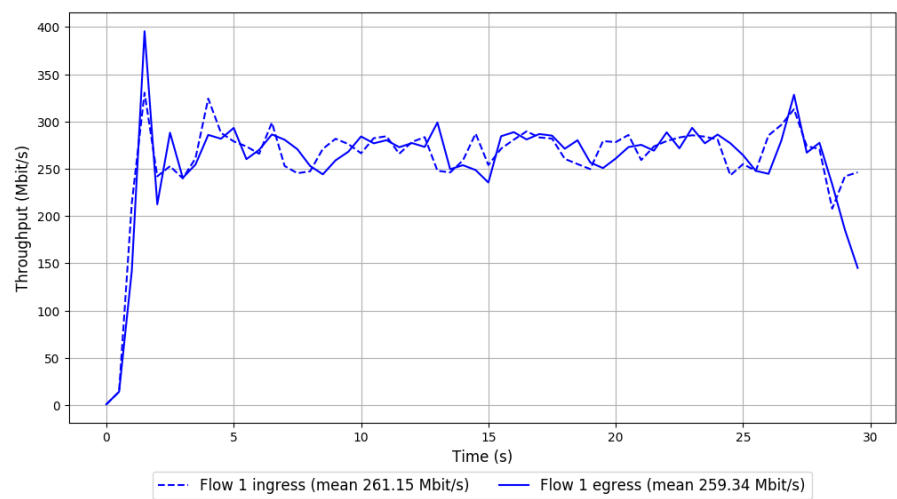
-- Flow 1:

Average throughput: 259.34 Mbit/s

95th percentile per-packet one-way delay: 78.243 ms

Loss rate: 1.12%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-20 11:24:22

End at: 2018-02-20 11:24:52

Below is generated by plot.py at 2018-02-20 14:48:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 231.24 Mbit/s

95th percentile per-packet one-way delay: 102.450 ms

Loss rate: 0.92%

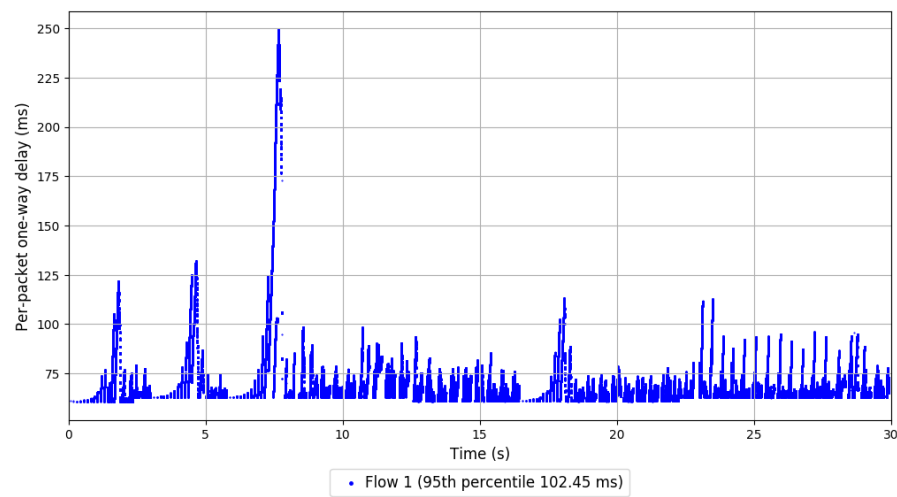
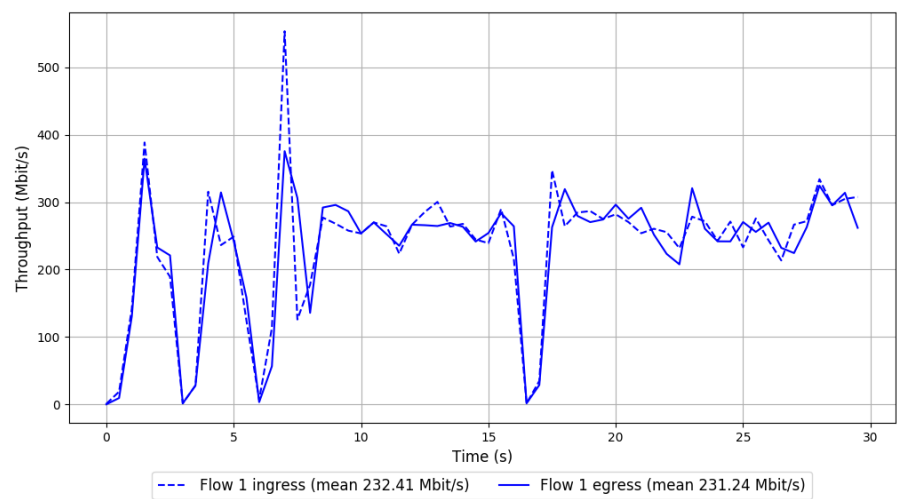
-- Flow 1:

Average throughput: 231.24 Mbit/s

95th percentile per-packet one-way delay: 102.450 ms

Loss rate: 0.92%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-02-20 09:23:33

End at: 2018-02-20 09:24:03

Below is generated by plot.py at 2018-02-20 14:48:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.65 Mbit/s

95th percentile per-packet one-way delay: 63.904 ms

Loss rate: 0.14%

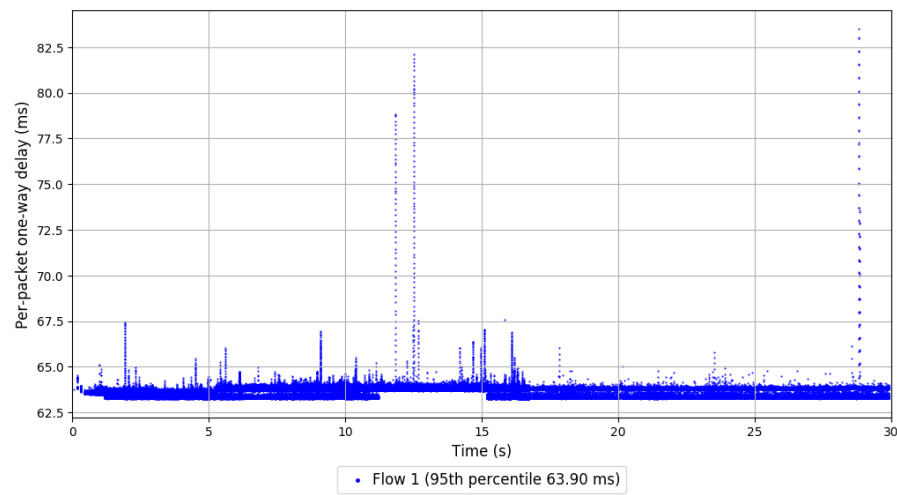
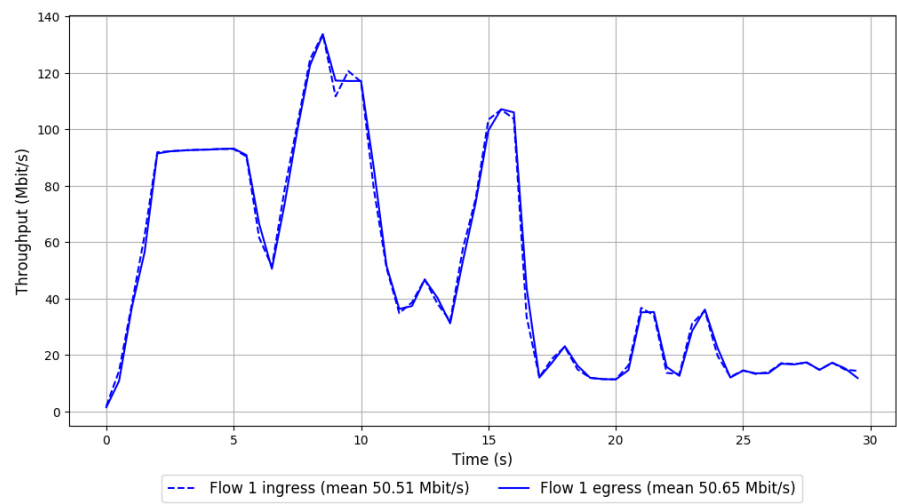
-- Flow 1:

Average throughput: 50.65 Mbit/s

95th percentile per-packet one-way delay: 63.904 ms

Loss rate: 0.14%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-20 09:38:19

End at: 2018-02-20 09:38:49

Below is generated by plot.py at 2018-02-20 14:48:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.14 Mbit/s

95th percentile per-packet one-way delay: 63.680 ms

Loss rate: 0.08%

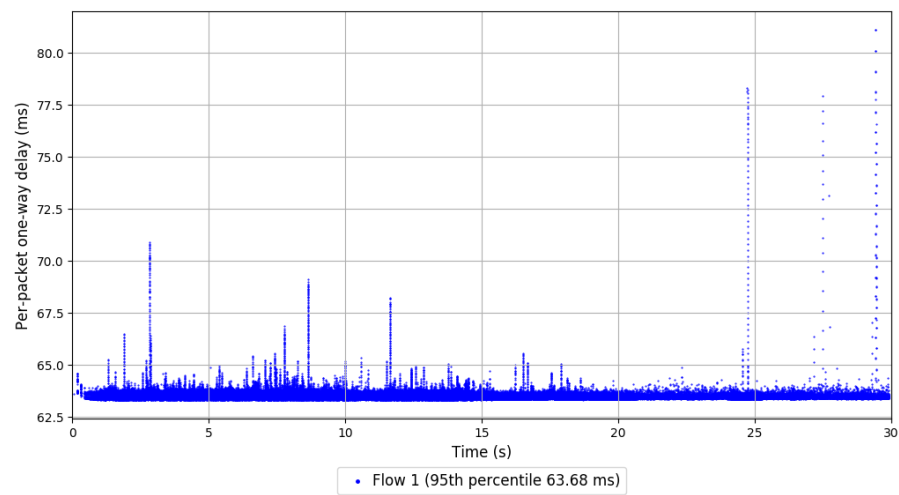
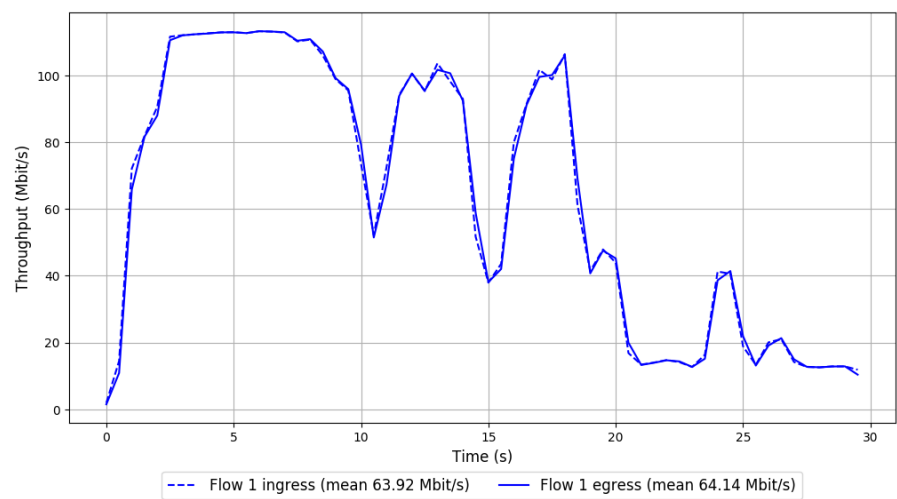
-- Flow 1:

Average throughput: 64.14 Mbit/s

95th percentile per-packet one-way delay: 63.680 ms

Loss rate: 0.08%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-20 09:52:53

End at: 2018-02-20 09:53:23

Below is generated by plot.py at 2018-02-20 14:48:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.07 Mbit/s

95th percentile per-packet one-way delay: 63.613 ms

Loss rate: 0.38%

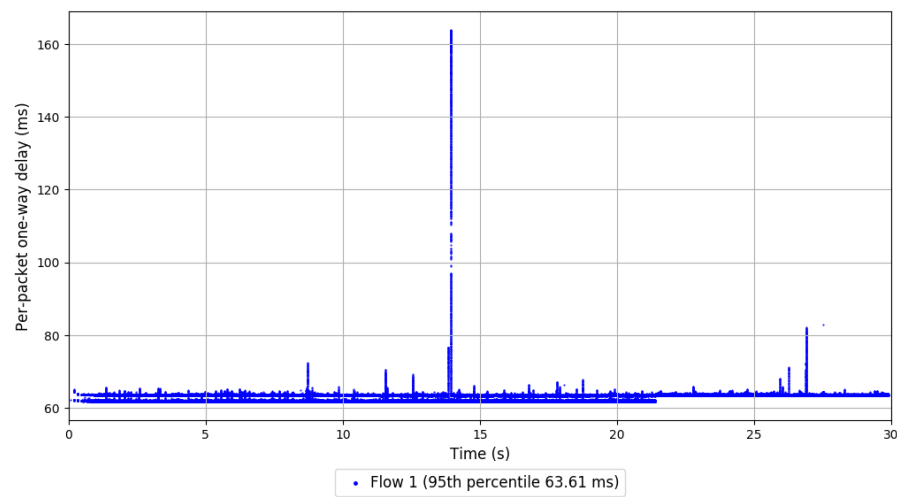
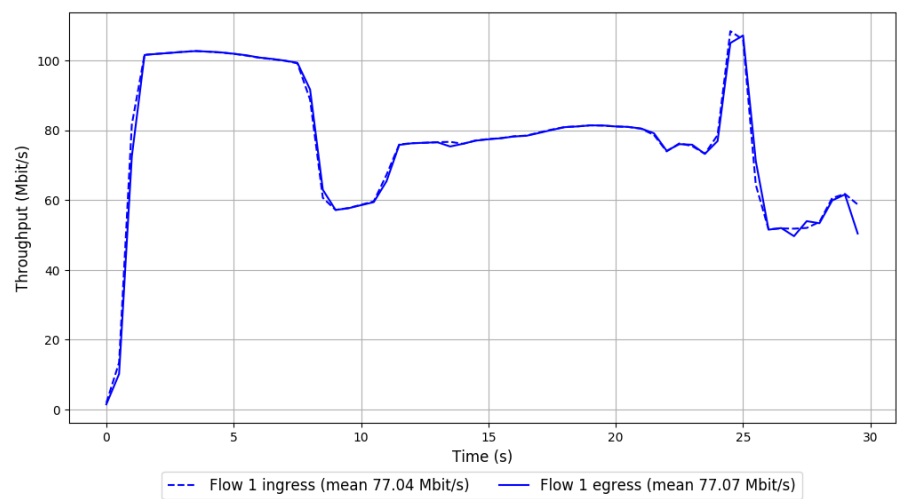
-- Flow 1:

Average throughput: 77.07 Mbit/s

95th percentile per-packet one-way delay: 63.613 ms

Loss rate: 0.38%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-20 10:07:19

End at: 2018-02-20 10:07:49

Below is generated by plot.py at 2018-02-20 14:48:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.85 Mbit/s

95th percentile per-packet one-way delay: 63.706 ms

Loss rate: 0.53%

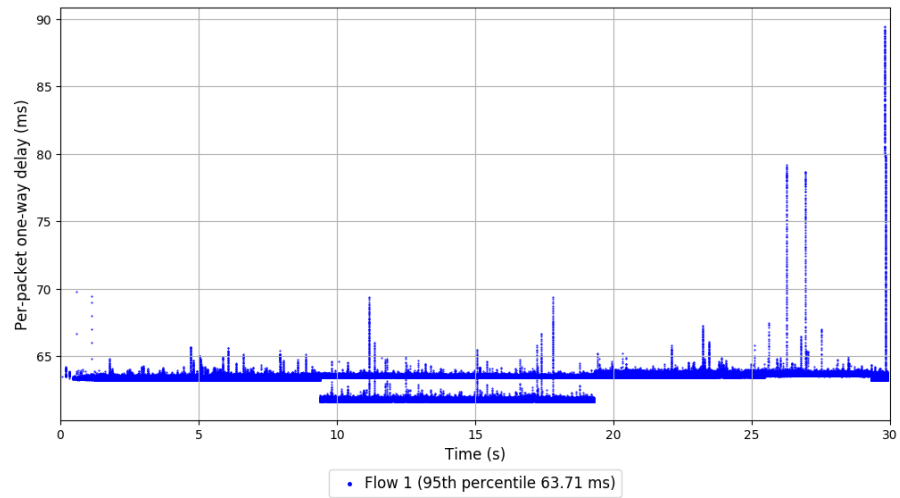
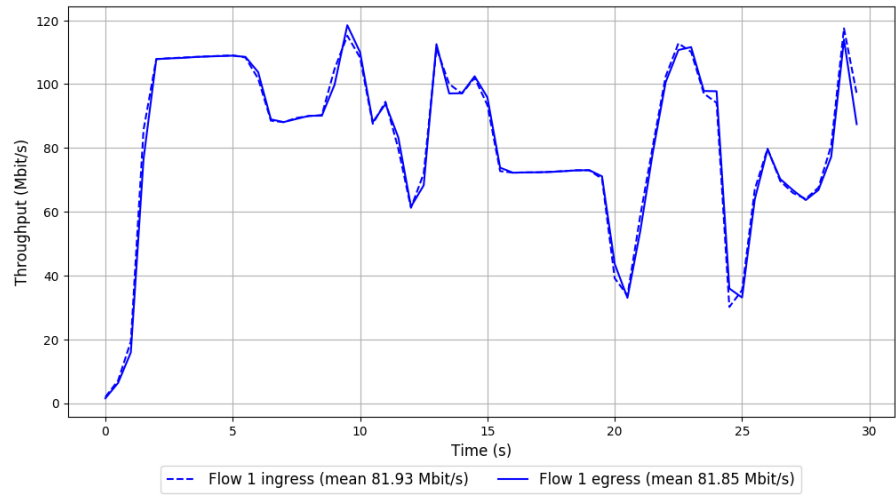
-- Flow 1:

Average throughput: 81.85 Mbit/s

95th percentile per-packet one-way delay: 63.706 ms

Loss rate: 0.53%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-20 10:22:04

End at: 2018-02-20 10:22:34

Below is generated by plot.py at 2018-02-20 14:49:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.48 Mbit/s

95th percentile per-packet one-way delay: 63.669 ms

Loss rate: 0.22%

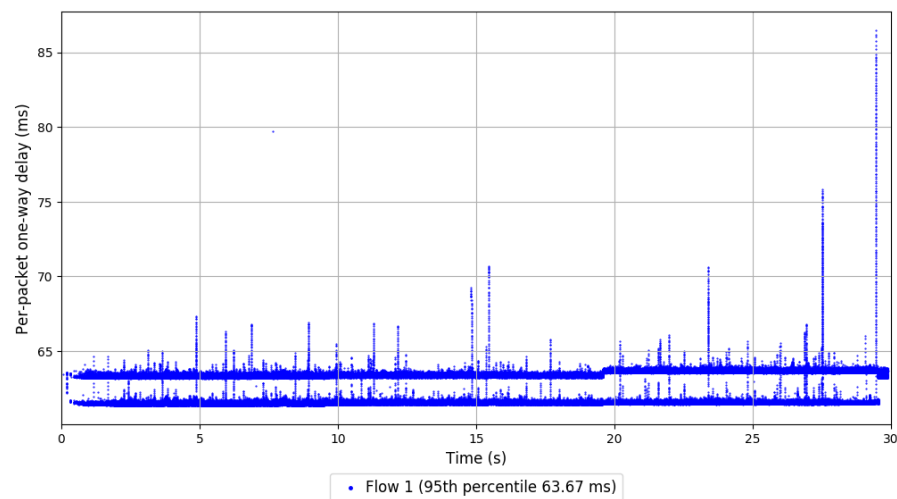
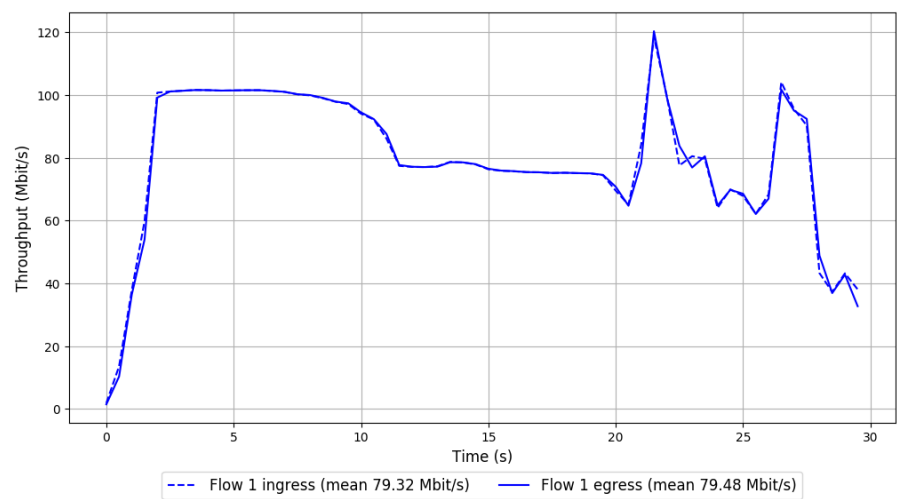
-- Flow 1:

Average throughput: 79.48 Mbit/s

95th percentile per-packet one-way delay: 63.669 ms

Loss rate: 0.22%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-20 10:36:33

End at: 2018-02-20 10:37:03

Below is generated by plot.py at 2018-02-20 14:49:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.98 Mbit/s

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

Loss rate: 0.57%

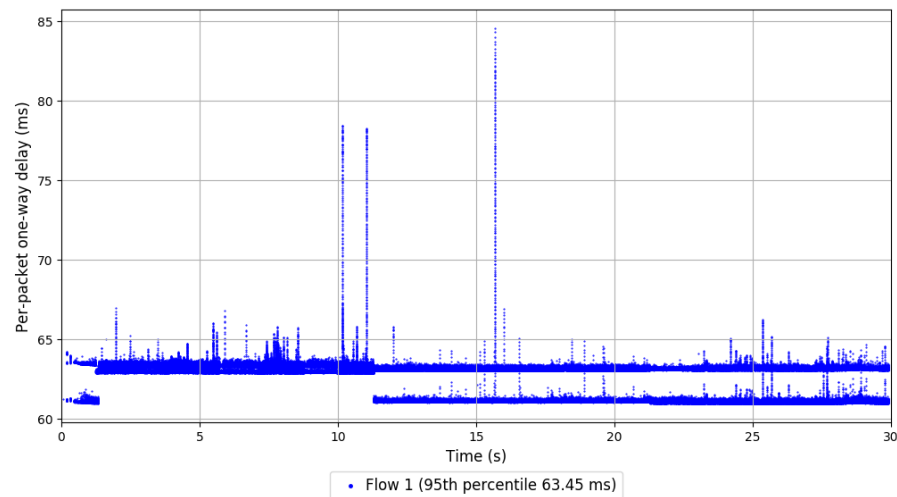
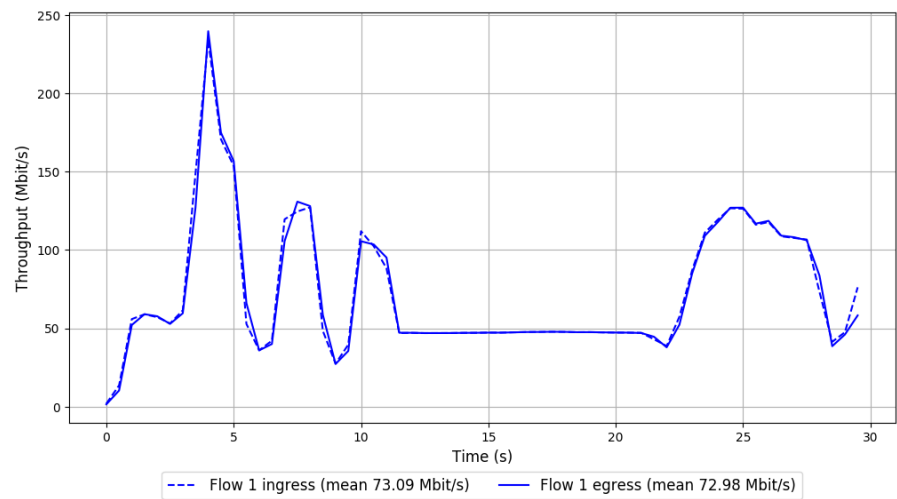
-- Flow 1:

Average throughput: 72.98 Mbit/s

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

Loss rate: 0.57%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-20 10:51:14

End at: 2018-02-20 10:51:44

Below is generated by plot.py at 2018-02-20 14:49:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.25 Mbit/s

95th percentile per-packet one-way delay: 63.324 ms

Loss rate: 0.40%

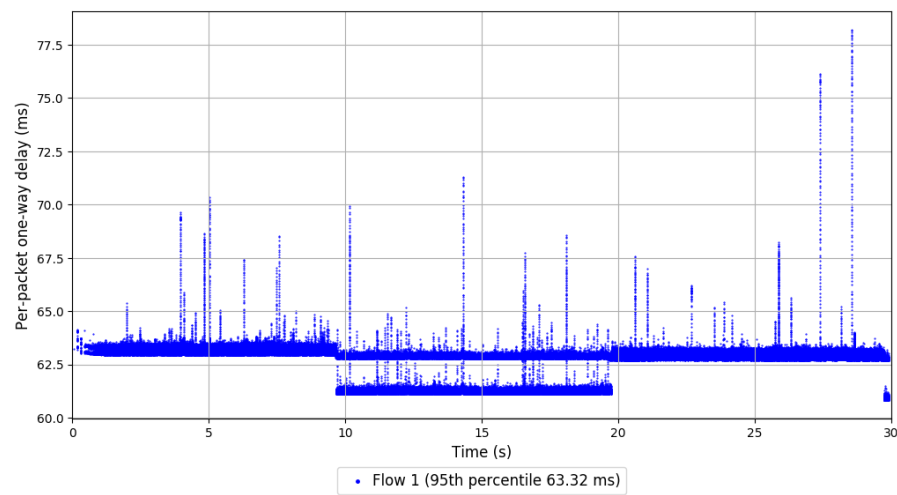
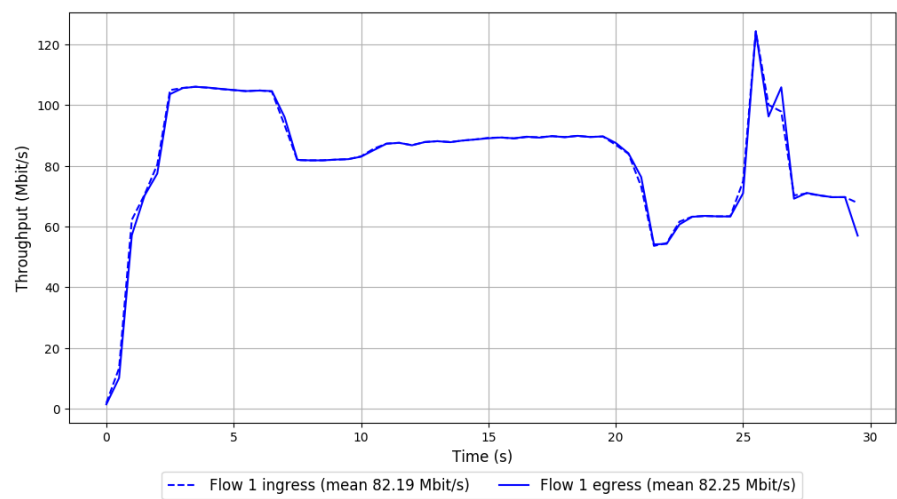
-- Flow 1:

Average throughput: 82.25 Mbit/s

95th percentile per-packet one-way delay: 63.324 ms

Loss rate: 0.40%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-20 11:05:51

End at: 2018-02-20 11:06:21

Below is generated by plot.py at 2018-02-20 14:50:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.37 Mbit/s

95th percentile per-packet one-way delay: 63.261 ms

Loss rate: 0.45%

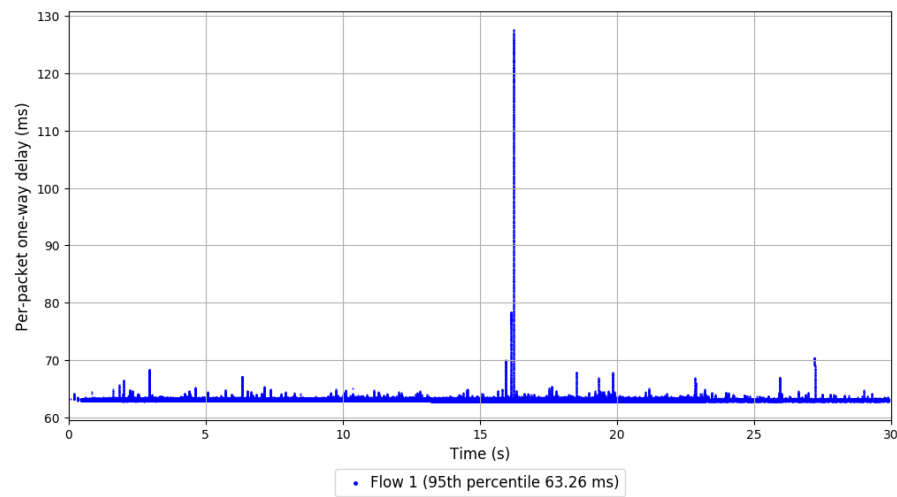
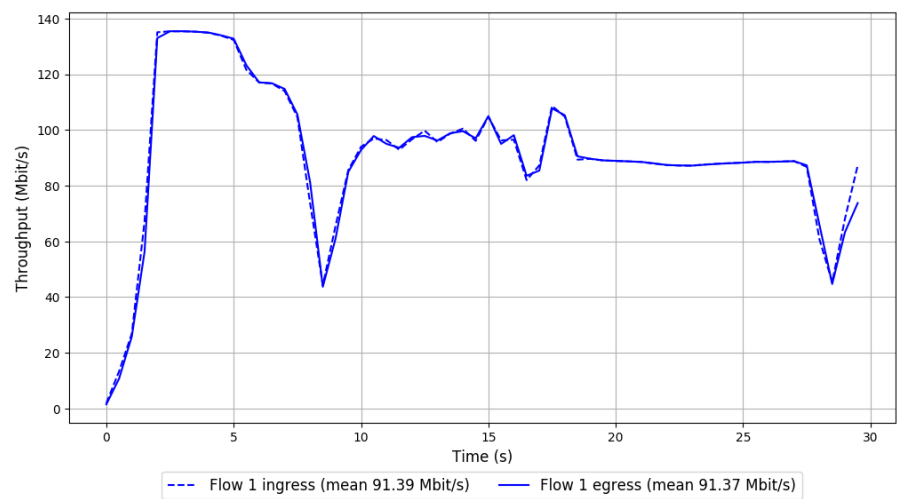
-- Flow 1:

Average throughput: 91.37 Mbit/s

95th percentile per-packet one-way delay: 63.261 ms

Loss rate: 0.45%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-20 11:20:22

End at: 2018-02-20 11:20:52

Below is generated by plot.py at 2018-02-20 14:50:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.93 Mbit/s

95th percentile per-packet one-way delay: 62.921 ms

Loss rate: 0.30%

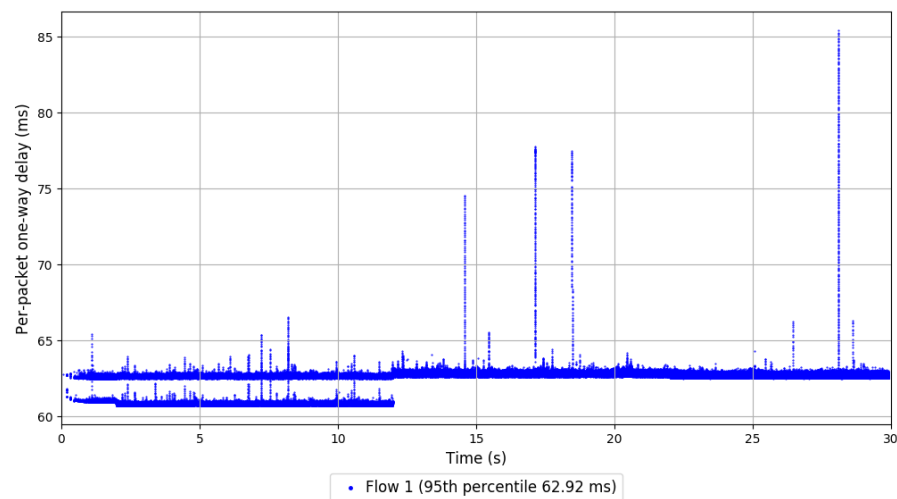
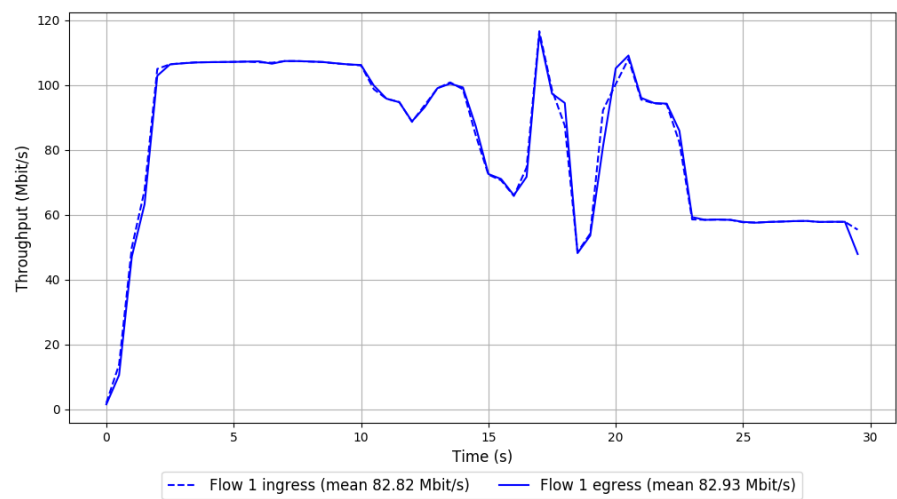
-- Flow 1:

Average throughput: 82.93 Mbit/s

95th percentile per-packet one-way delay: 62.921 ms

Loss rate: 0.30%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-20 11:35:10

End at: 2018-02-20 11:35:40

Below is generated by plot.py at 2018-02-20 14:50:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.22 Mbit/s

95th percentile per-packet one-way delay: 63.255 ms

Loss rate: 0.44%

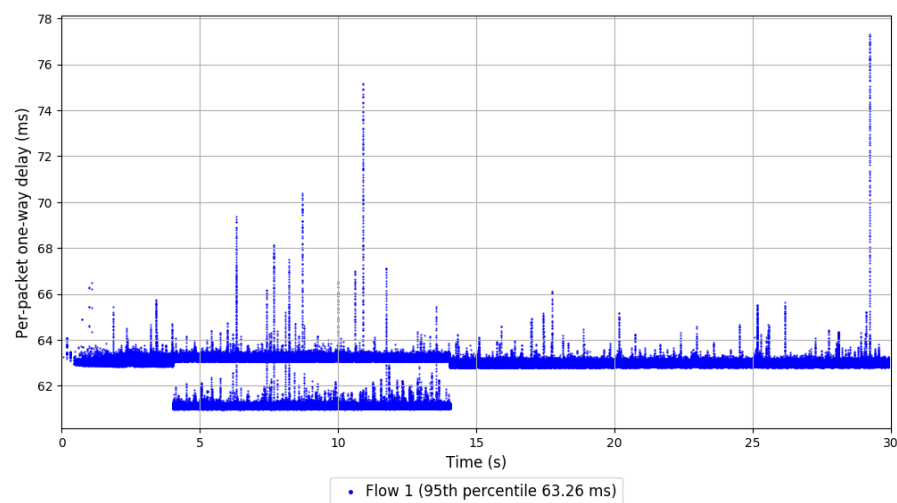
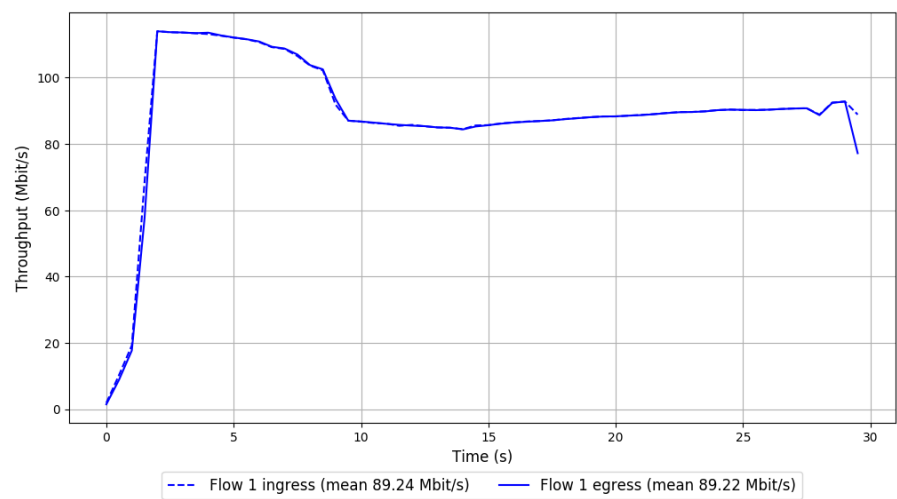
-- Flow 1:

Average throughput: 89.22 Mbit/s

95th percentile per-packet one-way delay: 63.255 ms

Loss rate: 0.44%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-02-20 09:16:44

End at: 2018-02-20 09:17:14

Below is generated by plot.py at 2018-02-20 15:05:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 854.49 Mbit/s

95th percentile per-packet one-way delay: 141.390 ms

Loss rate: 3.78%

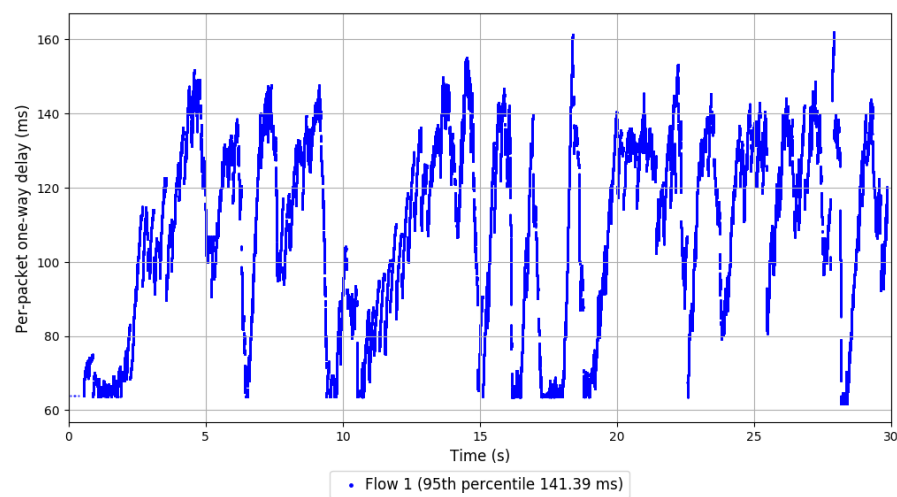
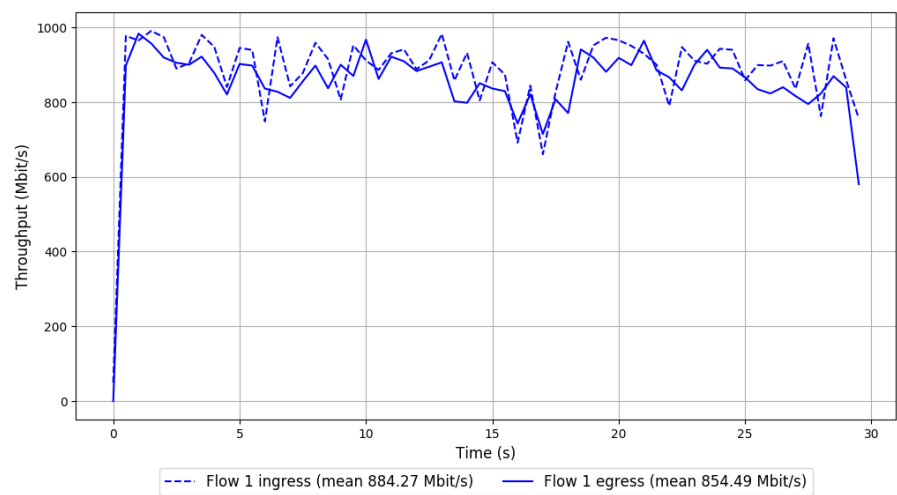
-- Flow 1:

Average throughput: 854.49 Mbit/s

95th percentile per-packet one-way delay: 141.390 ms

Loss rate: 3.78%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-20 09:31:29

End at: 2018-02-20 09:31:59

Below is generated by plot.py at 2018-02-20 15:05:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 927.68 Mbit/s

95th percentile per-packet one-way delay: 197.487 ms

Loss rate: 3.26%

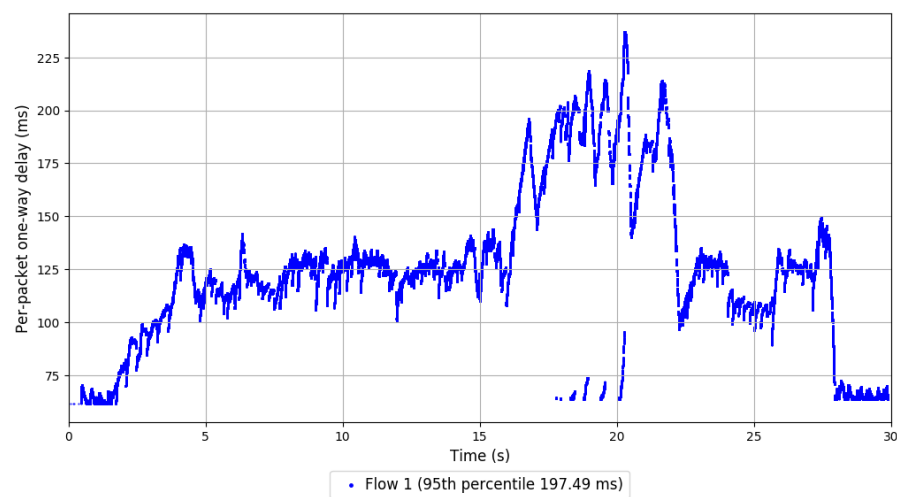
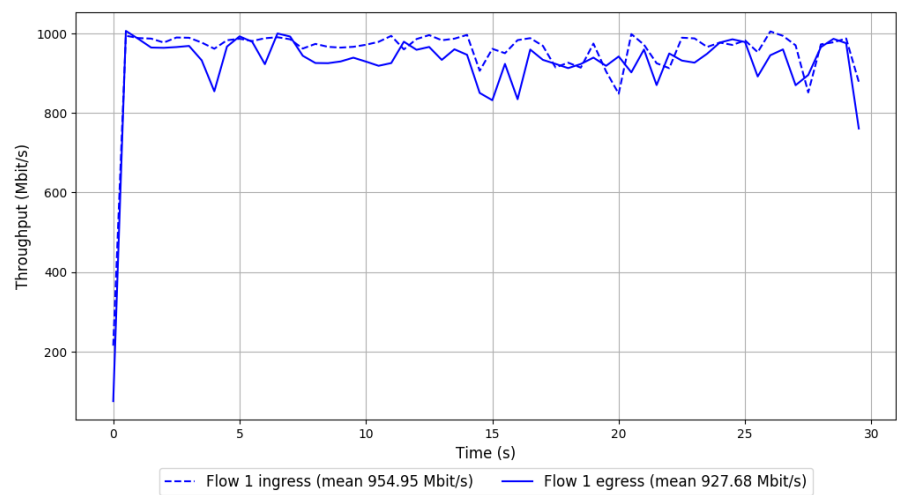
-- Flow 1:

Average throughput: 927.68 Mbit/s

95th percentile per-packet one-way delay: 197.487 ms

Loss rate: 3.26%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-20 09:46:10

End at: 2018-02-20 09:46:40

Below is generated by plot.py at 2018-02-20 15:05:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 937.31 Mbit/s

95th percentile per-packet one-way delay: 172.060 ms

Loss rate: 0.98%

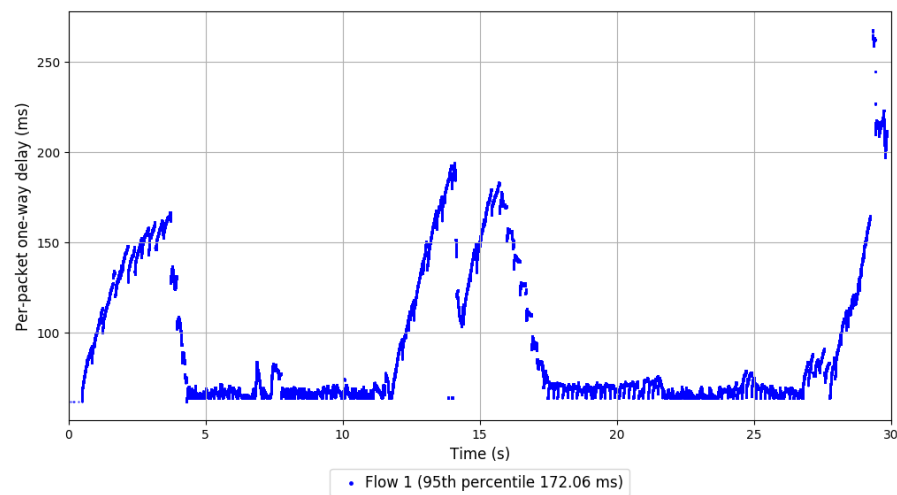
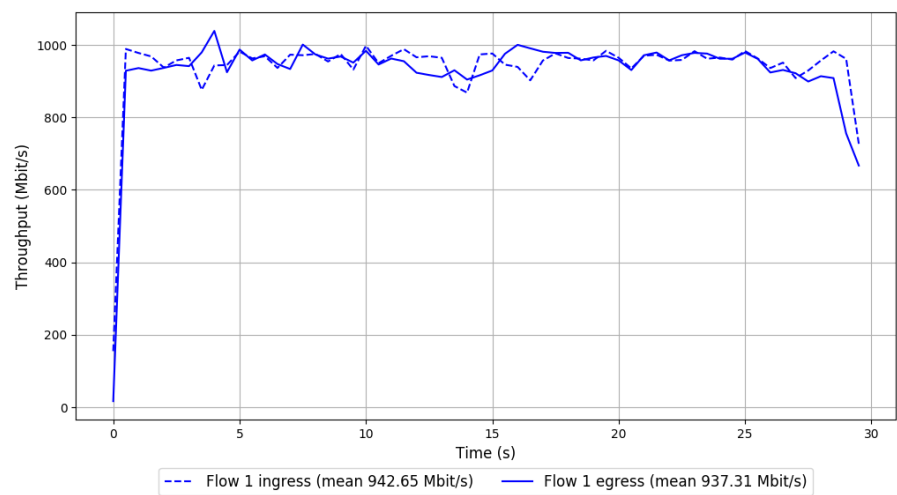
-- Flow 1:

Average throughput: 937.31 Mbit/s

95th percentile per-packet one-way delay: 172.060 ms

Loss rate: 0.98%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-20 10:00:35

End at: 2018-02-20 10:01:05

Below is generated by plot.py at 2018-02-20 15:05:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 838.28 Mbit/s

95th percentile per-packet one-way delay: 265.348 ms

Loss rate: 3.23%

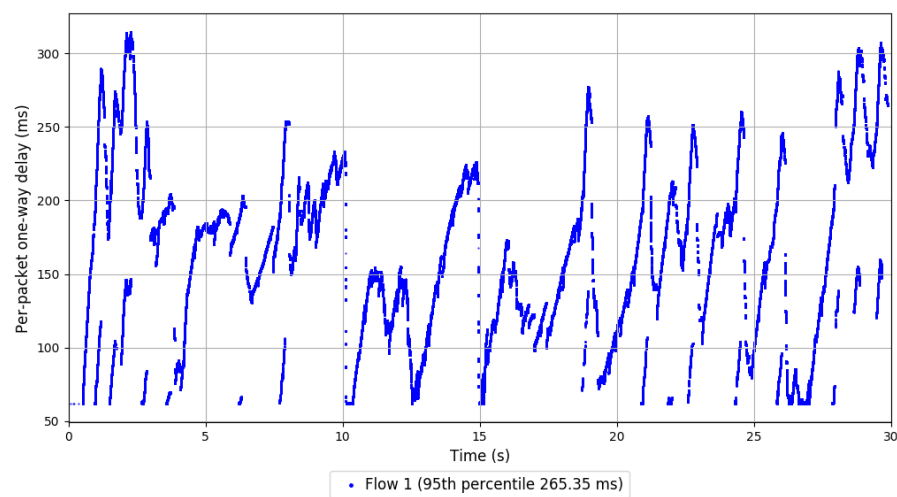
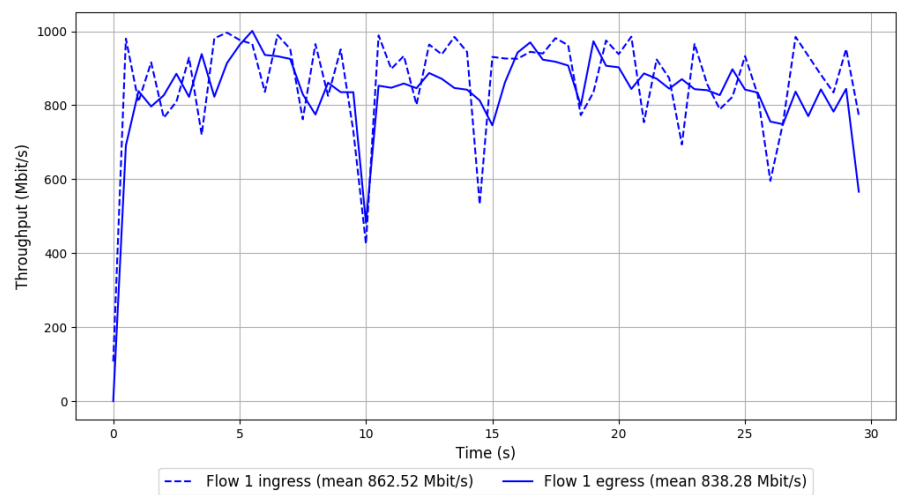
-- Flow 1:

Average throughput: 838.28 Mbit/s

95th percentile per-packet one-way delay: 265.348 ms

Loss rate: 3.23%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-20 10:15:19

End at: 2018-02-20 10:15:49

Below is generated by plot.py at 2018-02-20 15:06:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 902.28 Mbit/s

95th percentile per-packet one-way delay: 133.936 ms

Loss rate: 2.82%

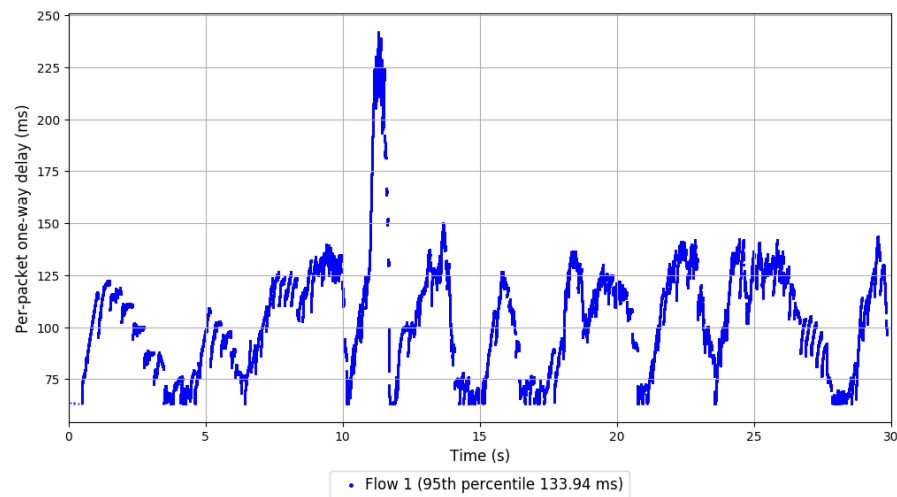
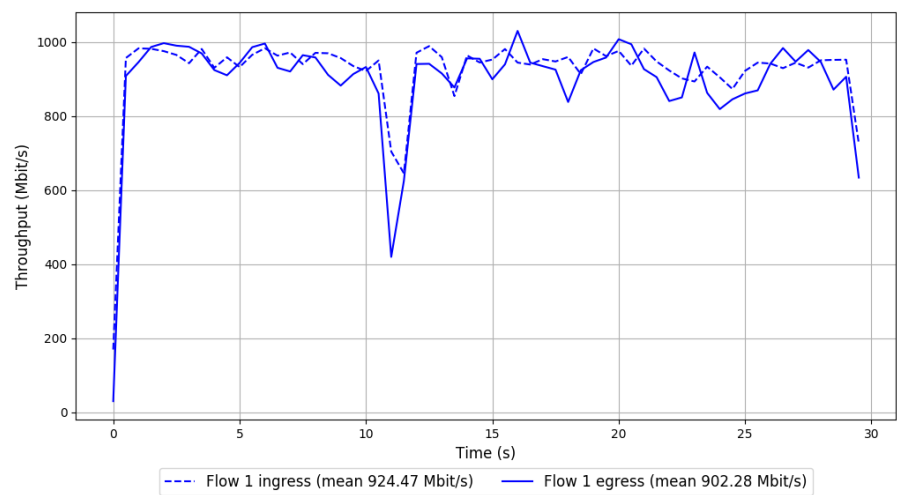
-- Flow 1:

Average throughput: 902.28 Mbit/s

95th percentile per-packet one-way delay: 133.936 ms

Loss rate: 2.82%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-20 10:29:49

End at: 2018-02-20 10:30:19

Below is generated by plot.py at 2018-02-20 15:06:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 878.46 Mbit/s

95th percentile per-packet one-way delay: 193.421 ms

Loss rate: 1.65%

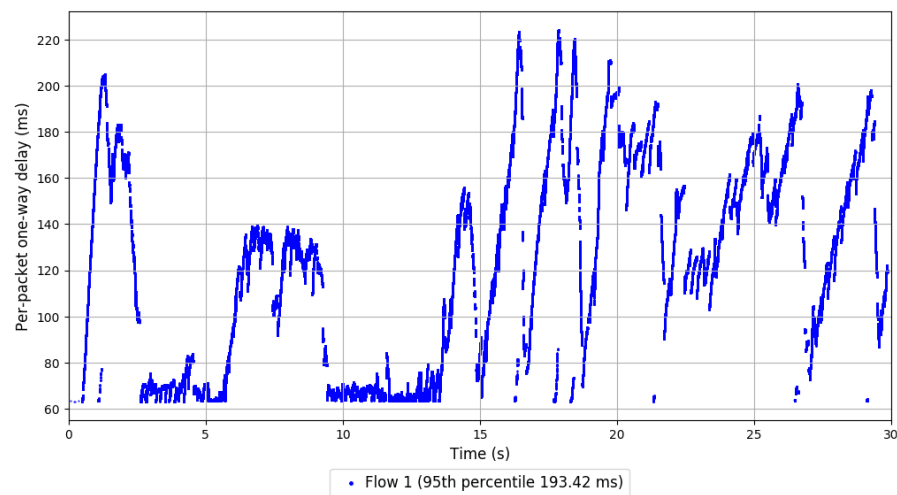
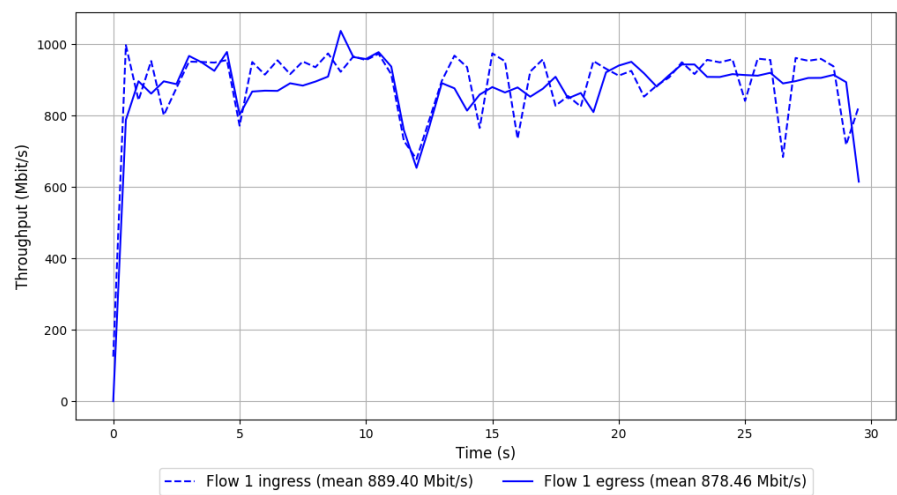
-- Flow 1:

Average throughput: 878.46 Mbit/s

95th percentile per-packet one-way delay: 193.421 ms

Loss rate: 1.65%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-20 10:44:24

End at: 2018-02-20 10:44:54

Below is generated by plot.py at 2018-02-20 15:08:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 954.49 Mbit/s

95th percentile per-packet one-way delay: 133.129 ms

Loss rate: 1.82%

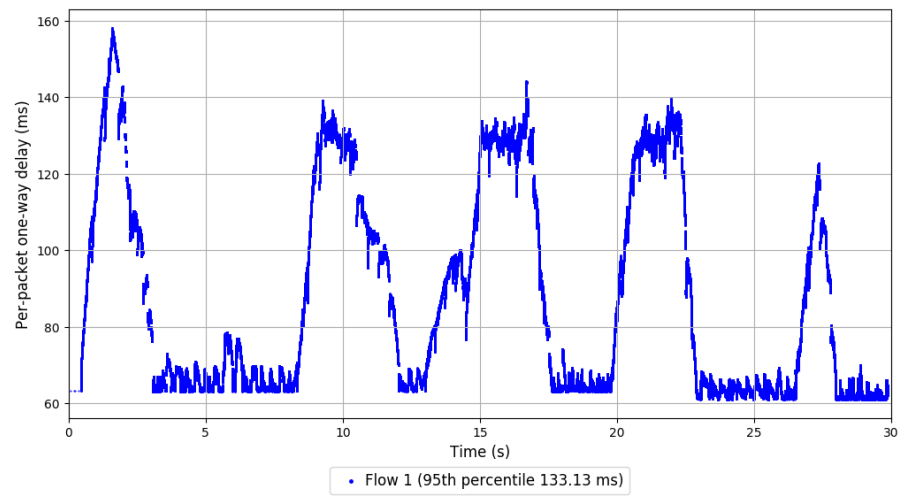
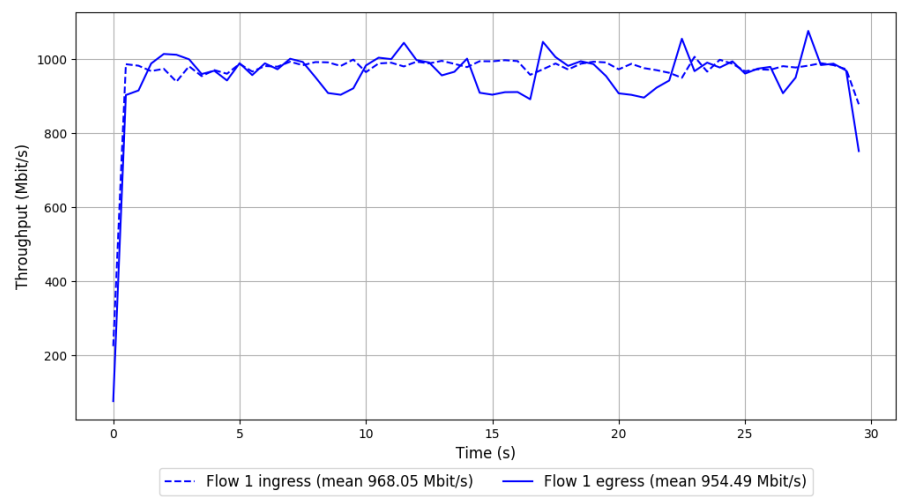
-- Flow 1:

Average throughput: 954.49 Mbit/s

95th percentile per-packet one-way delay: 133.129 ms

Loss rate: 1.82%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-20 10:59:04

End at: 2018-02-20 10:59:34

Below is generated by plot.py at 2018-02-20 15:08:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 867.98 Mbit/s

95th percentile per-packet one-way delay: 257.462 ms

Loss rate: 3.28%

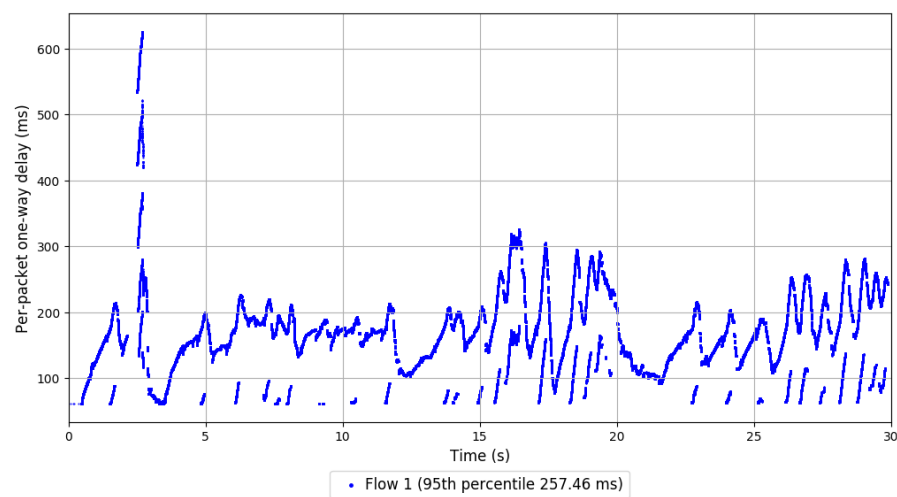
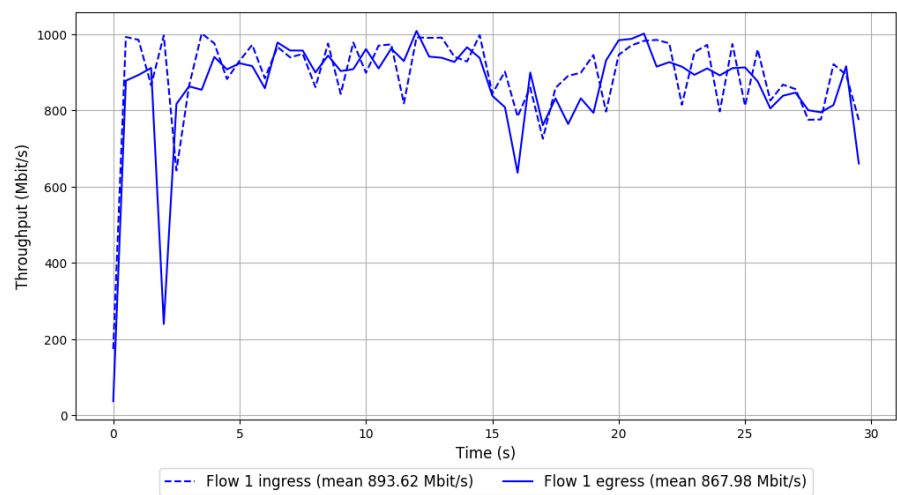
-- Flow 1:

Average throughput: 867.98 Mbit/s

95th percentile per-packet one-way delay: 257.462 ms

Loss rate: 3.28%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-20 11:13:52

End at: 2018-02-20 11:14:22

Below is generated by plot.py at 2018-02-20 15:12:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 449.09 Mbit/s

95th percentile per-packet one-way delay: 283.090 ms

Loss rate: 7.16%

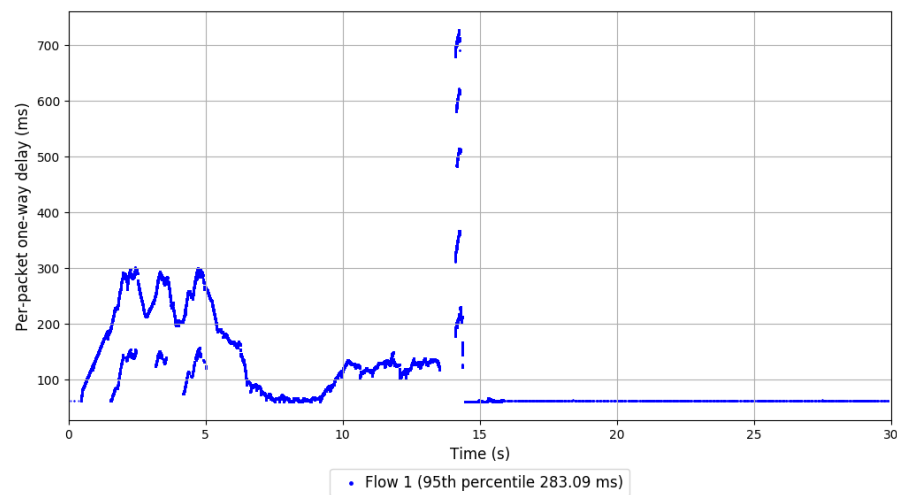
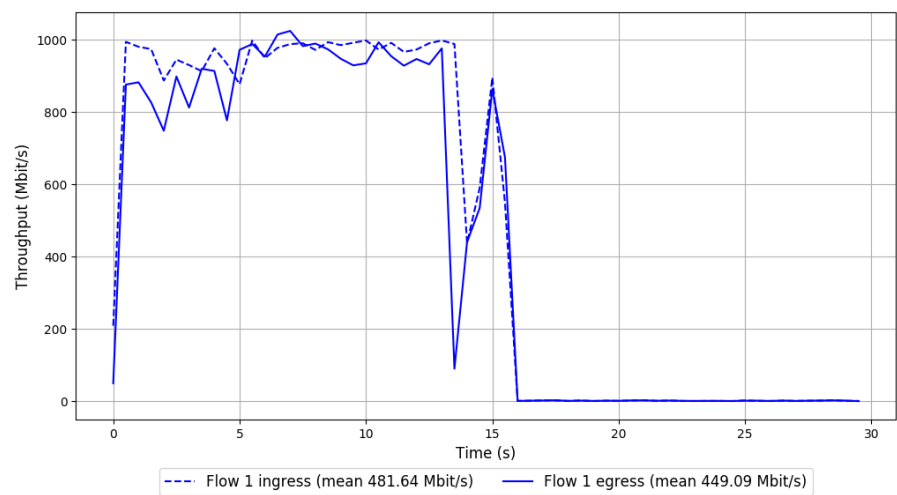
-- Flow 1:

Average throughput: 449.09 Mbit/s

95th percentile per-packet one-way delay: 283.090 ms

Loss rate: 7.16%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-20 11:28:23

End at: 2018-02-20 11:28:53

Below is generated by plot.py at 2018-02-20 15:20:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 886.46 Mbit/s

95th percentile per-packet one-way delay: 210.472 ms

Loss rate: 6.85%

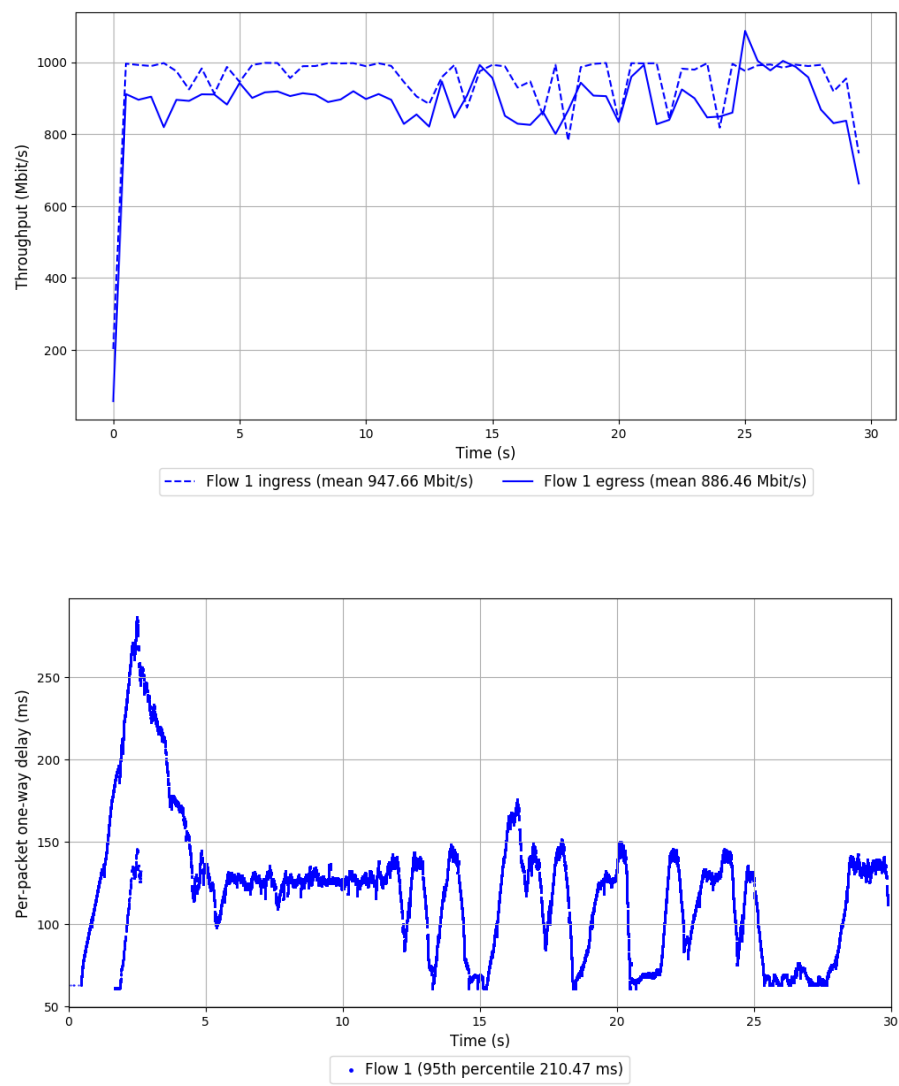
-- Flow 1:

Average throughput: 886.46 Mbit/s

95th percentile per-packet one-way delay: 210.472 ms

Loss rate: 6.85%

Run 10: Report of FillP — Data Link

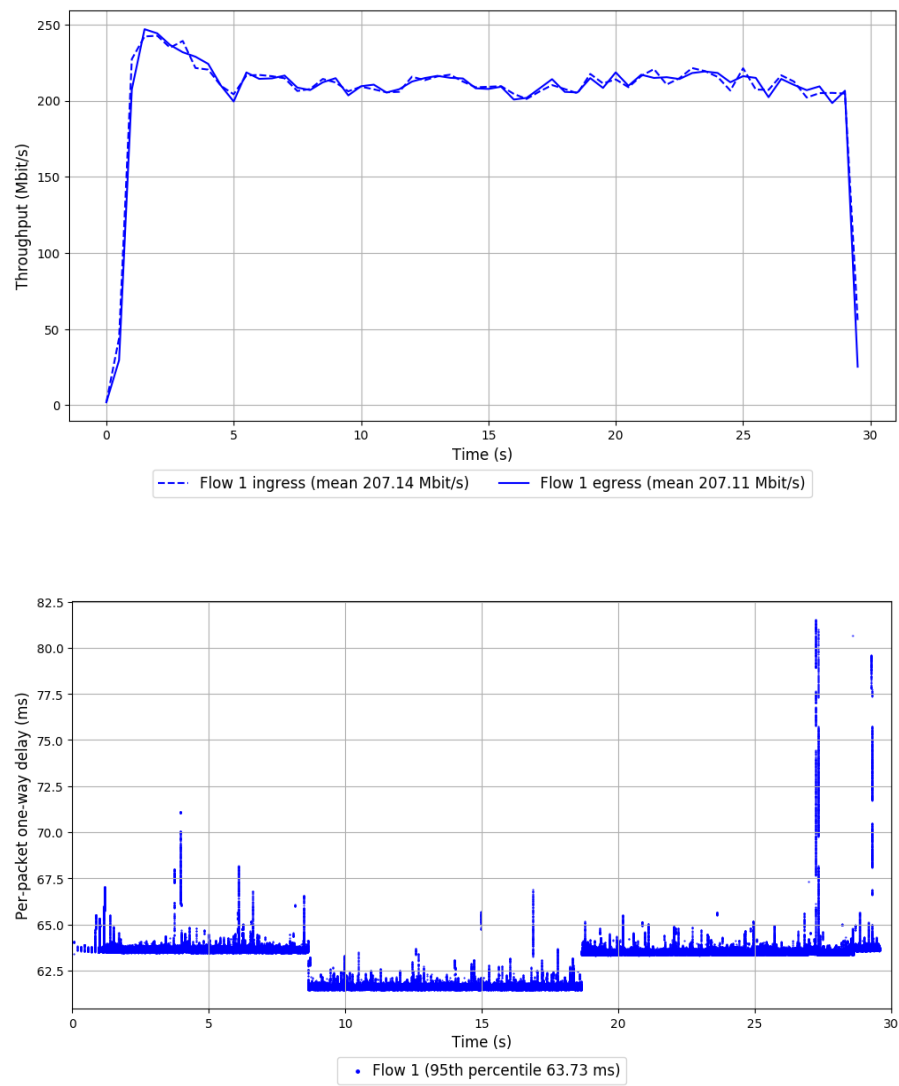


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-20 09:24:15
End at: 2018-02-20 09:24:45

# Below is generated by plot.py at 2018-02-20 15:20:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 207.11 Mbit/s
95th percentile per-packet one-way delay: 63.729 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 207.11 Mbit/s
95th percentile per-packet one-way delay: 63.729 ms
Loss rate: 0.44%
```

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

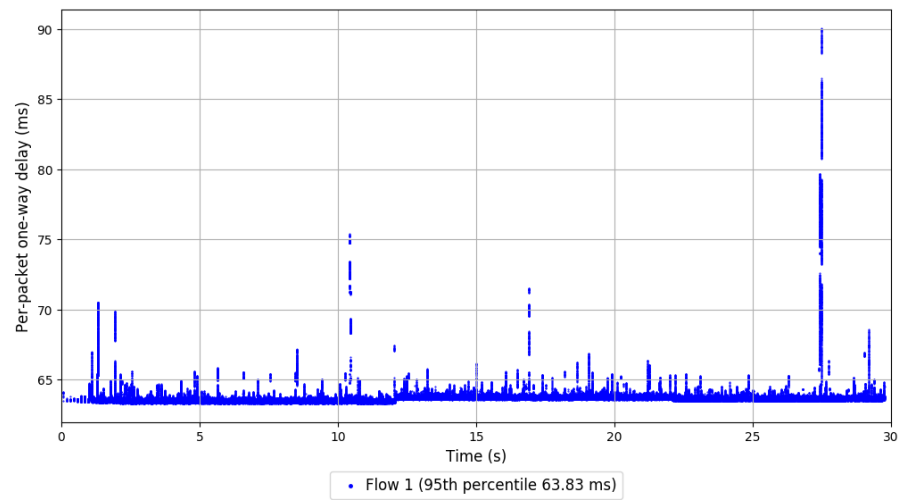
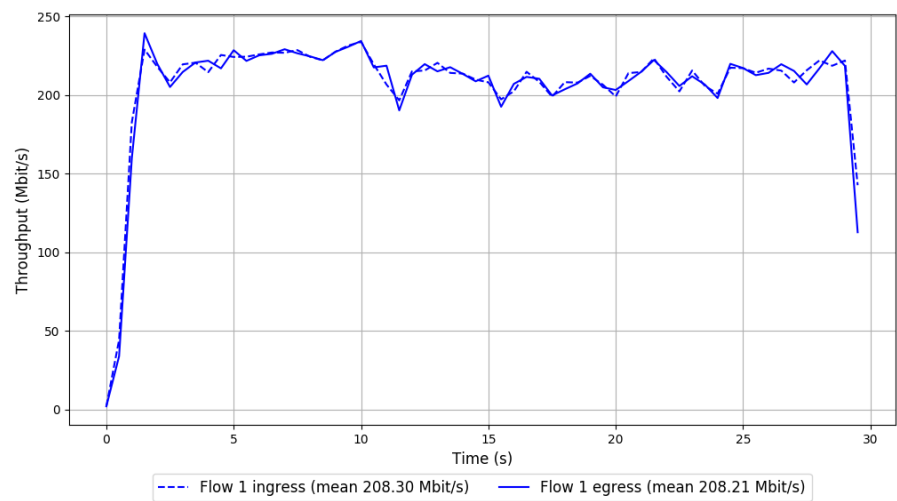


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-02-20 09:39:02
End at: 2018-02-20 09:39:32

# Below is generated by plot.py at 2018-02-20 15:20:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 208.21 Mbit/s
95th percentile per-packet one-way delay: 63.829 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 208.21 Mbit/s
95th percentile per-packet one-way delay: 63.829 ms
Loss rate: 0.47%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-20 09:53:37

End at: 2018-02-20 09:54:07

Below is generated by plot.py at 2018-02-20 15:20:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.01 Mbit/s

95th percentile per-packet one-way delay: 63.876 ms

Loss rate: 0.45%

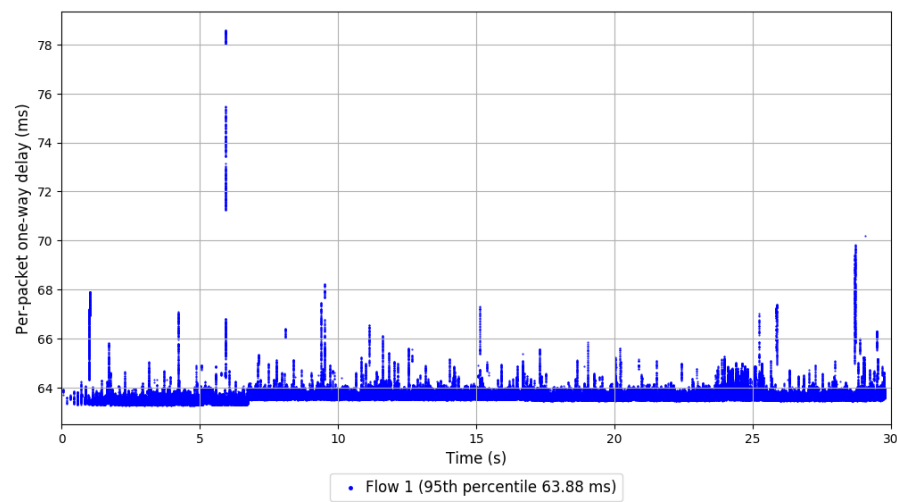
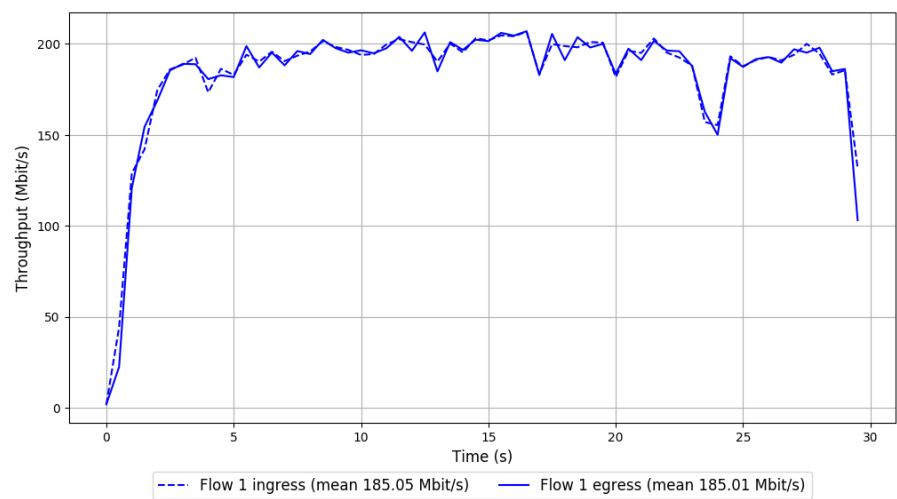
-- Flow 1:

Average throughput: 185.01 Mbit/s

95th percentile per-packet one-way delay: 63.876 ms

Loss rate: 0.45%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-20 10:08:03

End at: 2018-02-20 10:08:33

Below is generated by plot.py at 2018-02-20 15:20:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.86 Mbit/s

95th percentile per-packet one-way delay: 64.043 ms

Loss rate: 0.51%

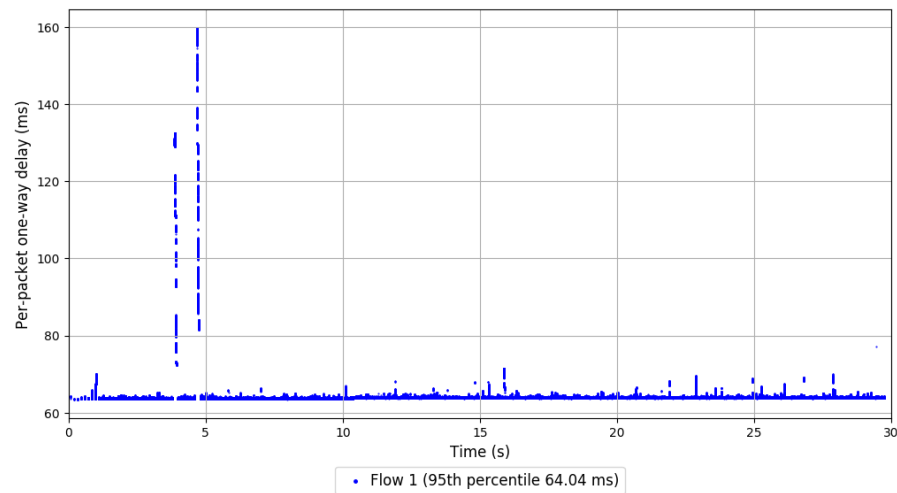
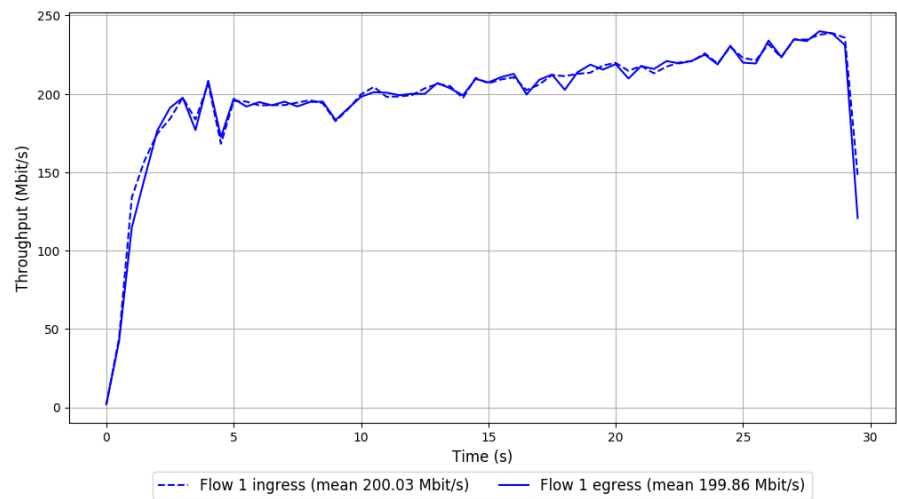
-- Flow 1:

Average throughput: 199.86 Mbit/s

95th percentile per-packet one-way delay: 64.043 ms

Loss rate: 0.51%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-20 10:22:49

End at: 2018-02-20 10:23:19

Below is generated by plot.py at 2018-02-20 15:20:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 145.86 Mbit/s

95th percentile per-packet one-way delay: 63.900 ms

Loss rate: 0.69%

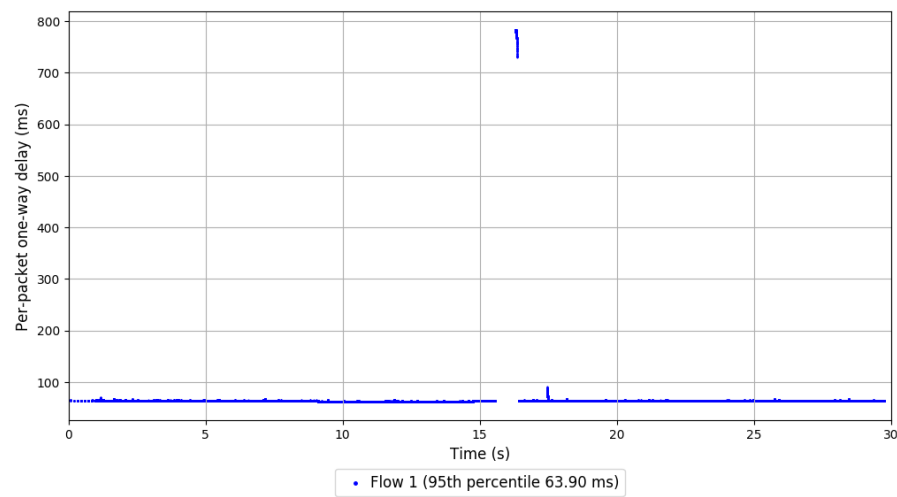
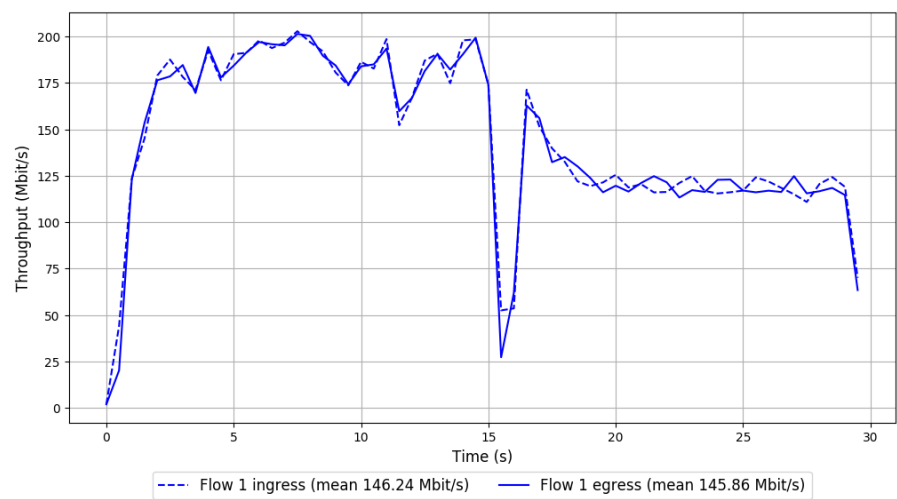
-- Flow 1:

Average throughput: 145.86 Mbit/s

95th percentile per-packet one-way delay: 63.900 ms

Loss rate: 0.69%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-20 10:37:17

End at: 2018-02-20 10:37:47

Below is generated by plot.py at 2018-02-20 15:20:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.40 Mbit/s

95th percentile per-packet one-way delay: 63.390 ms

Loss rate: 0.46%

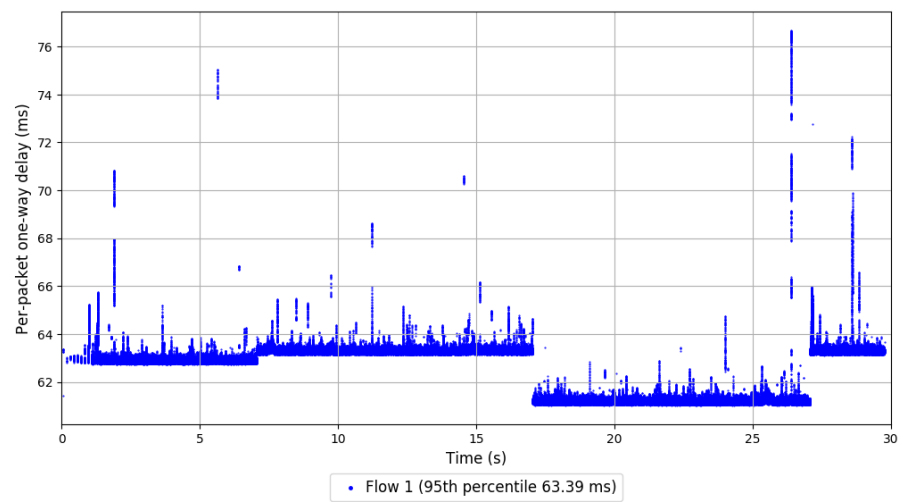
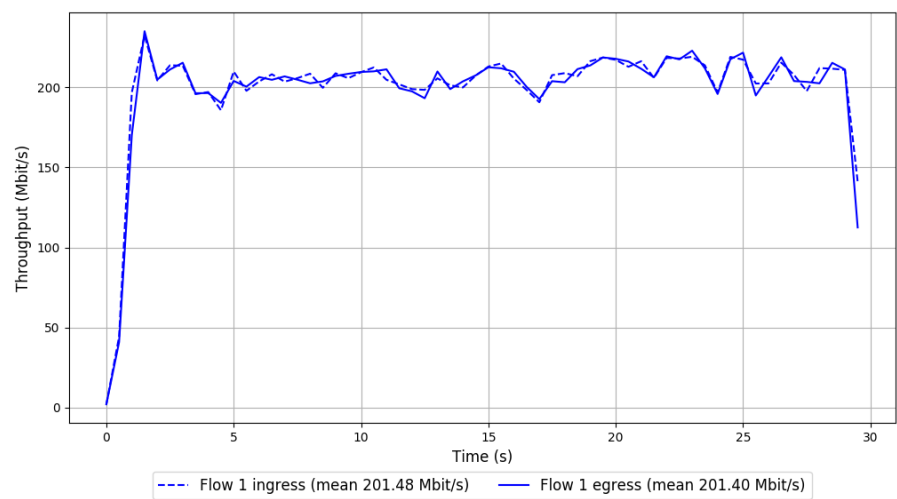
-- Flow 1:

Average throughput: 201.40 Mbit/s

95th percentile per-packet one-way delay: 63.390 ms

Loss rate: 0.46%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-20 10:51:59

End at: 2018-02-20 10:52:29

Below is generated by plot.py at 2018-02-20 15:20:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.43 Mbit/s

95th percentile per-packet one-way delay: 63.072 ms

Loss rate: 0.41%

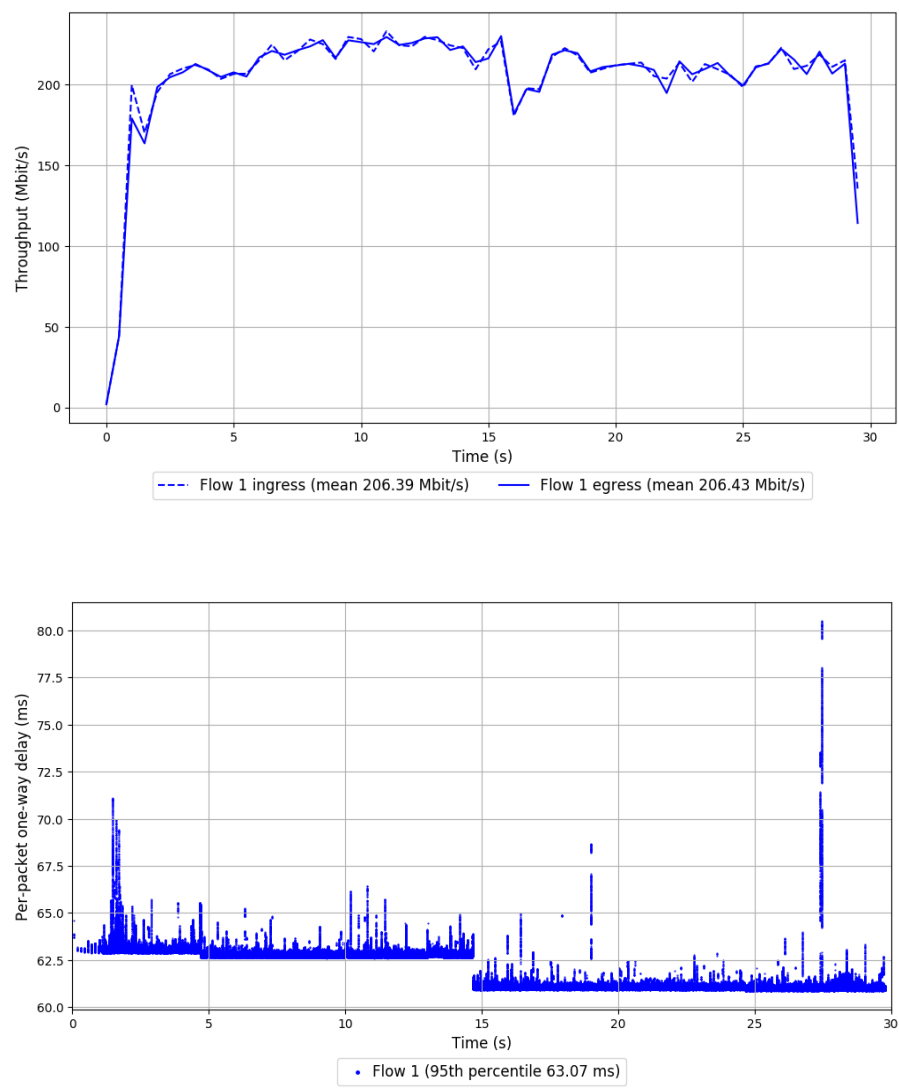
-- Flow 1:

Average throughput: 206.43 Mbit/s

95th percentile per-packet one-way delay: 63.072 ms

Loss rate: 0.41%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-20 11:06:37

End at: 2018-02-20 11:07:07

Below is generated by plot.py at 2018-02-20 15:20:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.05 Mbit/s

95th percentile per-packet one-way delay: 63.091 ms

Loss rate: 0.43%

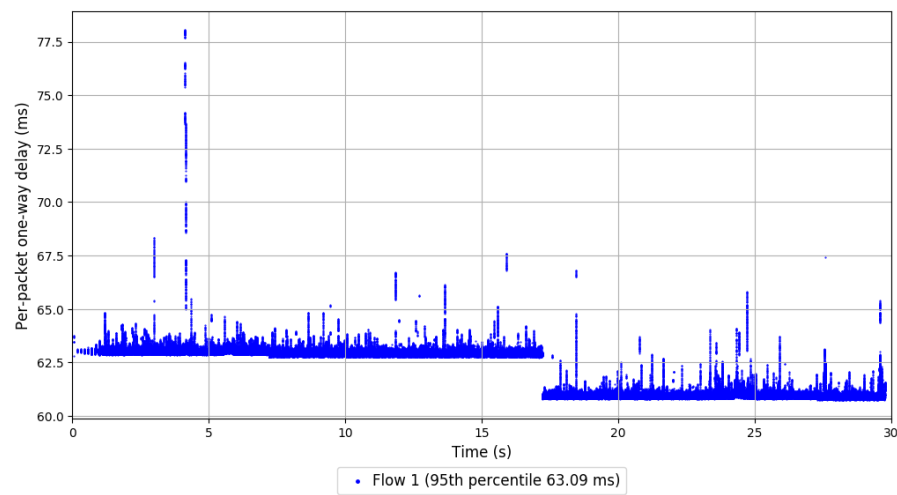
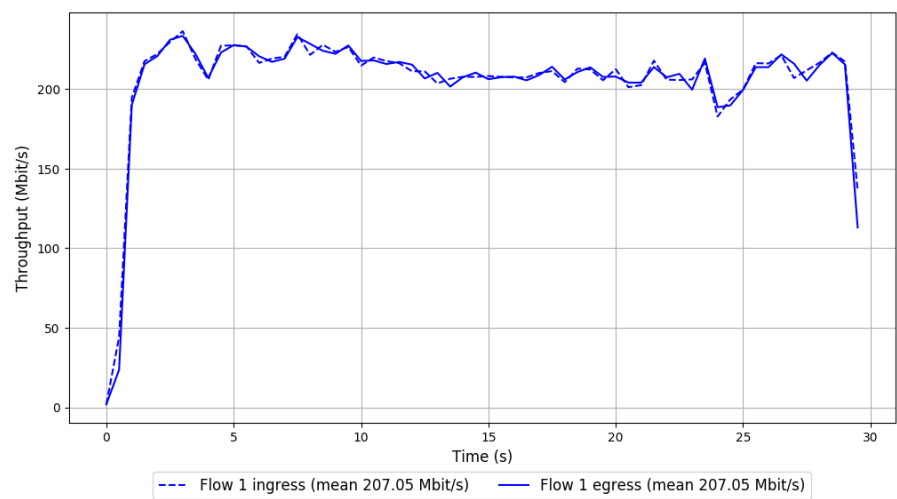
-- Flow 1:

Average throughput: 207.05 Mbit/s

95th percentile per-packet one-way delay: 63.091 ms

Loss rate: 0.43%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-20 11:21:07

End at: 2018-02-20 11:21:37

Below is generated by plot.py at 2018-02-20 15:20:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.64 Mbit/s

95th percentile per-packet one-way delay: 62.973 ms

Loss rate: 0.45%

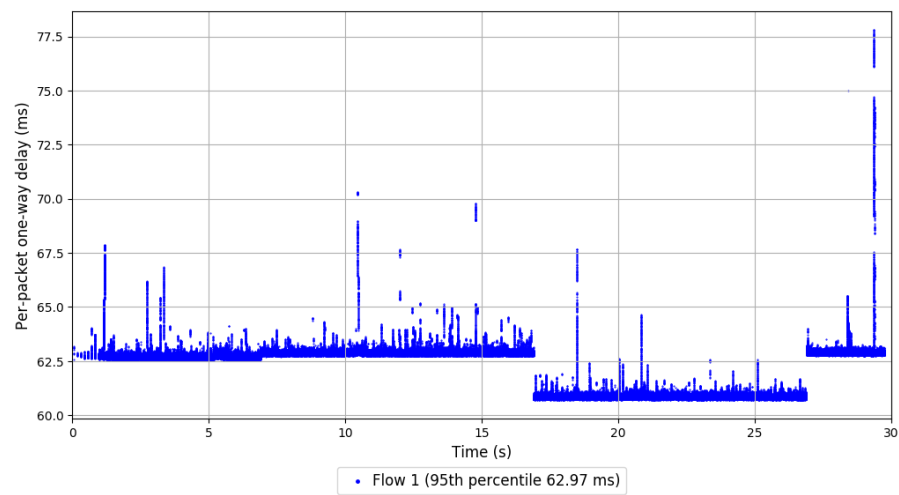
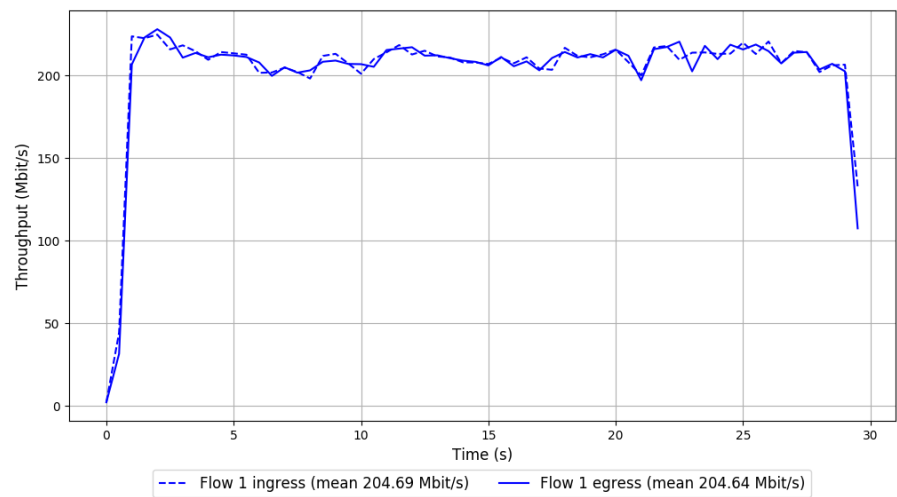
-- Flow 1:

Average throughput: 204.64 Mbit/s

95th percentile per-packet one-way delay: 62.973 ms

Loss rate: 0.45%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-20 11:35:55

End at: 2018-02-20 11:36:26

Below is generated by plot.py at 2018-02-20 15:20:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.14 Mbit/s

95th percentile per-packet one-way delay: 63.443 ms

Loss rate: 0.45%

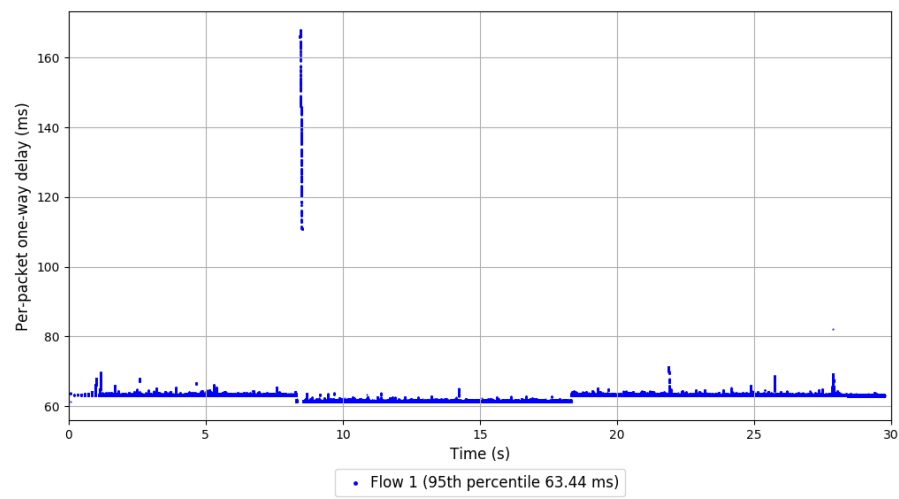
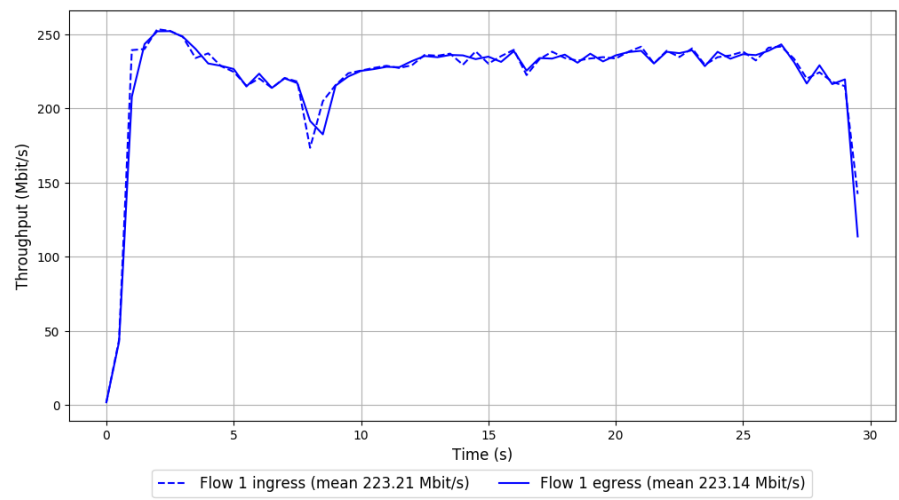
-- Flow 1:

Average throughput: 223.14 Mbit/s

95th percentile per-packet one-way delay: 63.443 ms

Loss rate: 0.45%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-02-20 09:14:21

End at: 2018-02-20 09:14:51

Below is generated by plot.py at 2018-02-20 15:20:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 286.53 Mbit/s

95th percentile per-packet one-way delay: 62.079 ms

Loss rate: 0.58%

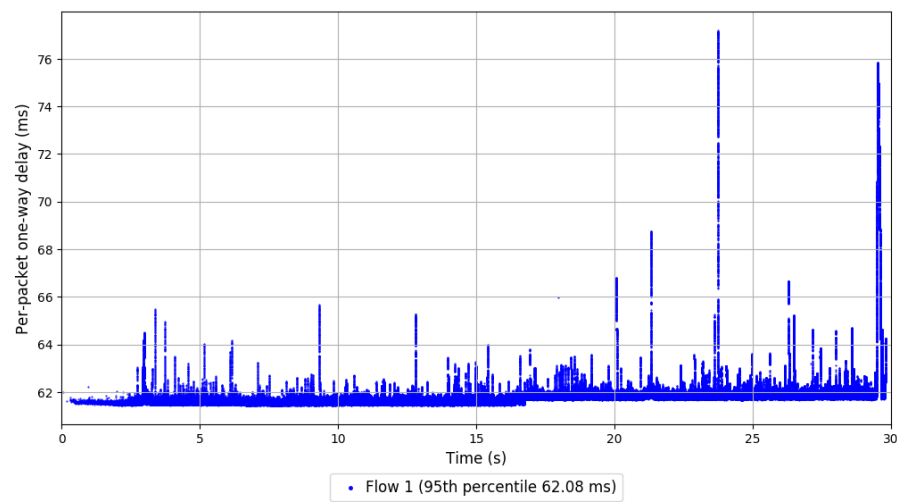
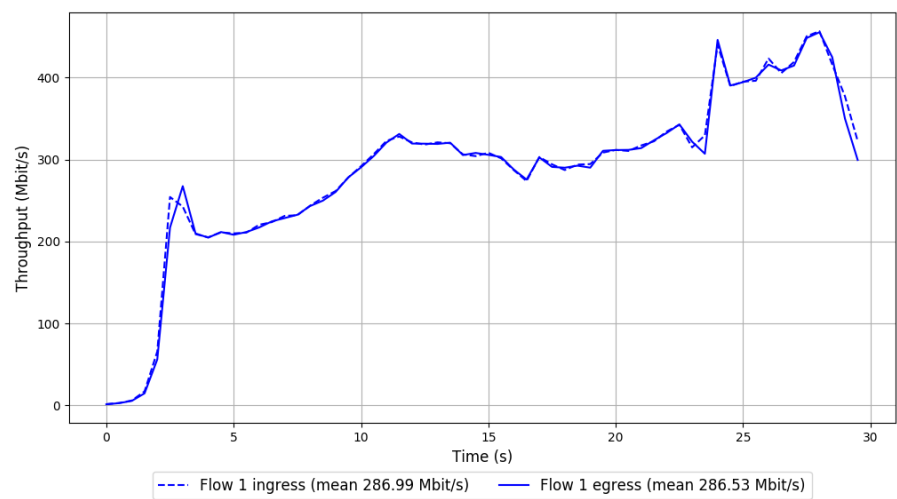
-- Flow 1:

Average throughput: 286.53 Mbit/s

95th percentile per-packet one-way delay: 62.079 ms

Loss rate: 0.58%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-20 09:28:58

End at: 2018-02-20 09:29:28

Below is generated by plot.py at 2018-02-20 15:20:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 328.92 Mbit/s

95th percentile per-packet one-way delay: 74.764 ms

Loss rate: 0.42%

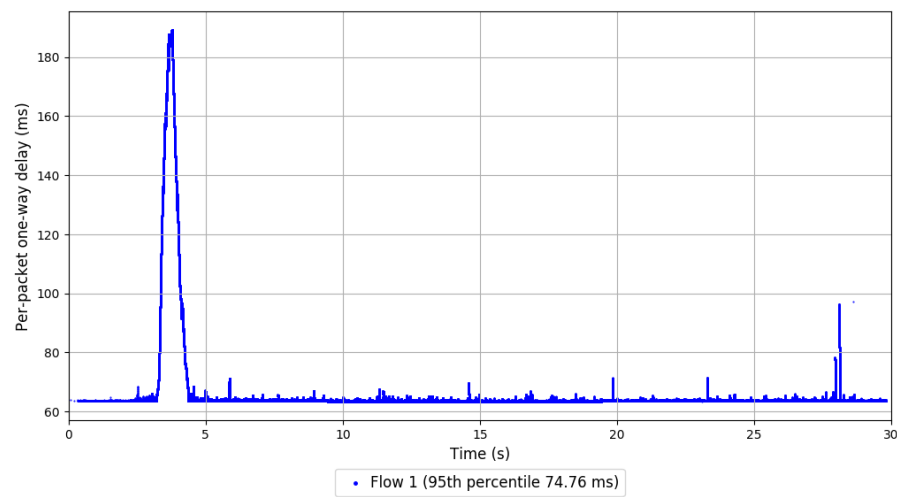
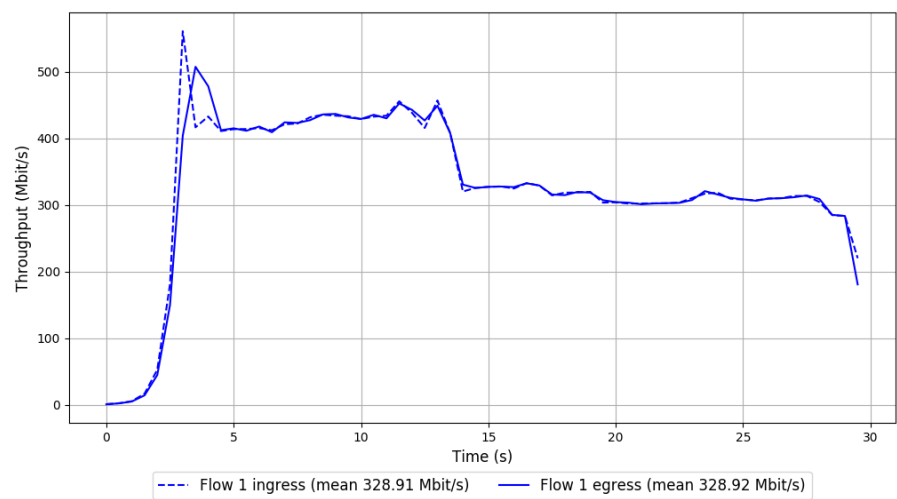
-- Flow 1:

Average throughput: 328.92 Mbit/s

95th percentile per-packet one-way delay: 74.764 ms

Loss rate: 0.42%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-20 09:43:41

End at: 2018-02-20 09:44:11

Below is generated by plot.py at 2018-02-20 15:20:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 348.45 Mbit/s

95th percentile per-packet one-way delay: 78.532 ms

Loss rate: 0.53%

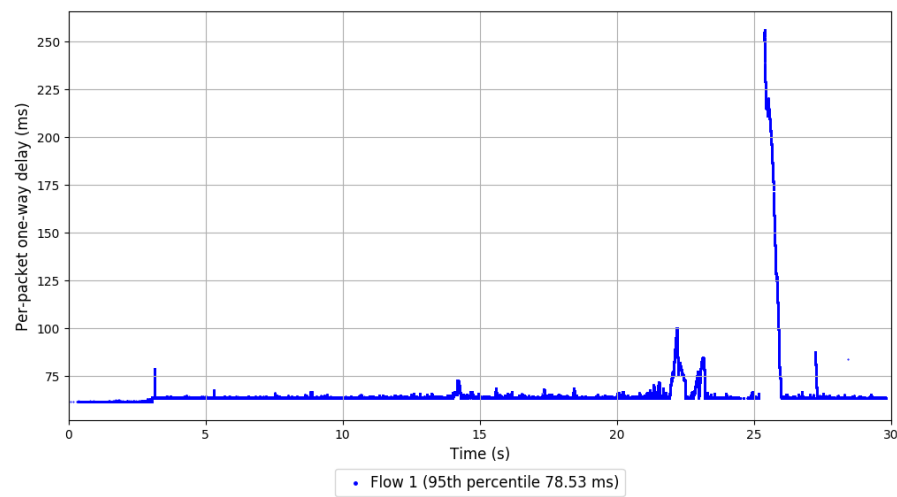
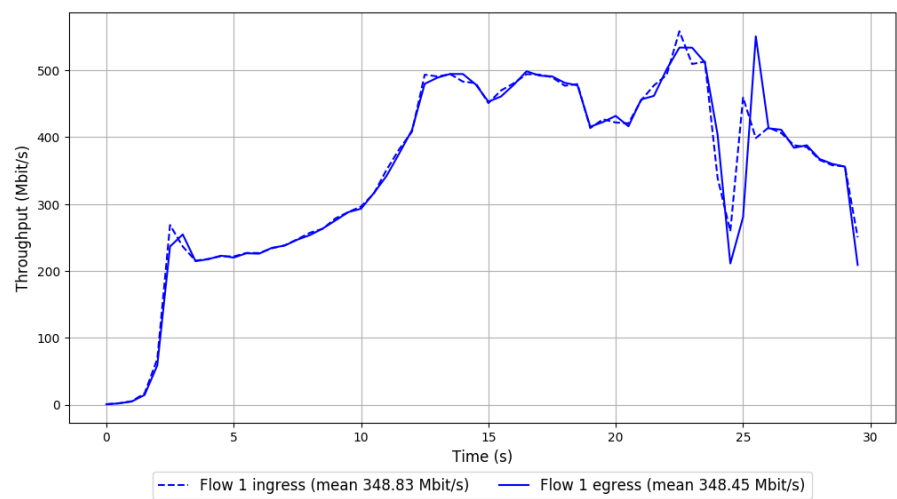
-- Flow 1:

Average throughput: 348.45 Mbit/s

95th percentile per-packet one-way delay: 78.532 ms

Loss rate: 0.53%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-20 09:58:11

End at: 2018-02-20 09:58:41

Below is generated by plot.py at 2018-02-20 15:20:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 272.36 Mbit/s

95th percentile per-packet one-way delay: 63.762 ms

Loss rate: 0.40%

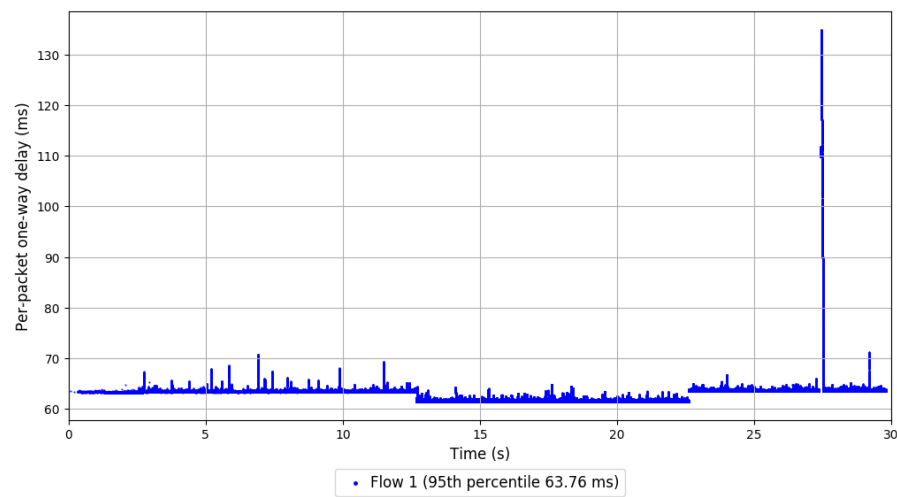
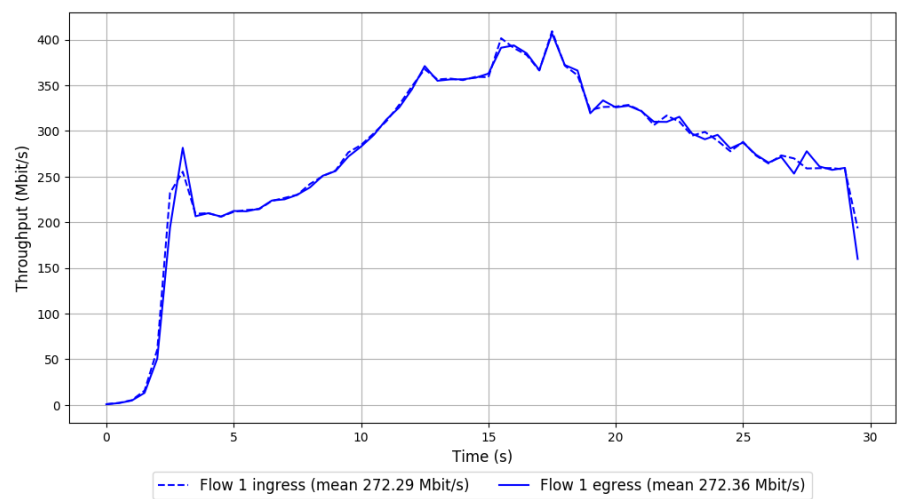
-- Flow 1:

Average throughput: 272.36 Mbit/s

95th percentile per-packet one-way delay: 63.762 ms

Loss rate: 0.40%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-20 10:12:55

End at: 2018-02-20 10:13:25

Below is generated by plot.py at 2018-02-20 15:20:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 268.09 Mbit/s

95th percentile per-packet one-way delay: 63.633 ms

Loss rate: 0.52%

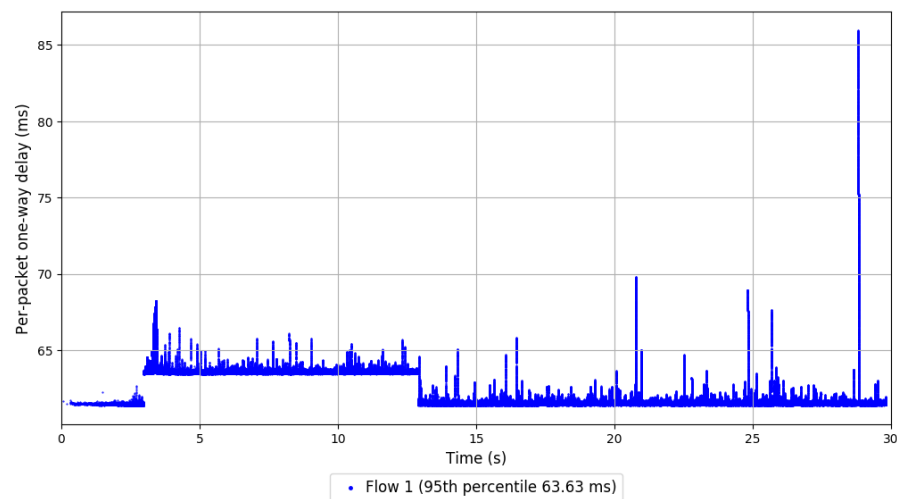
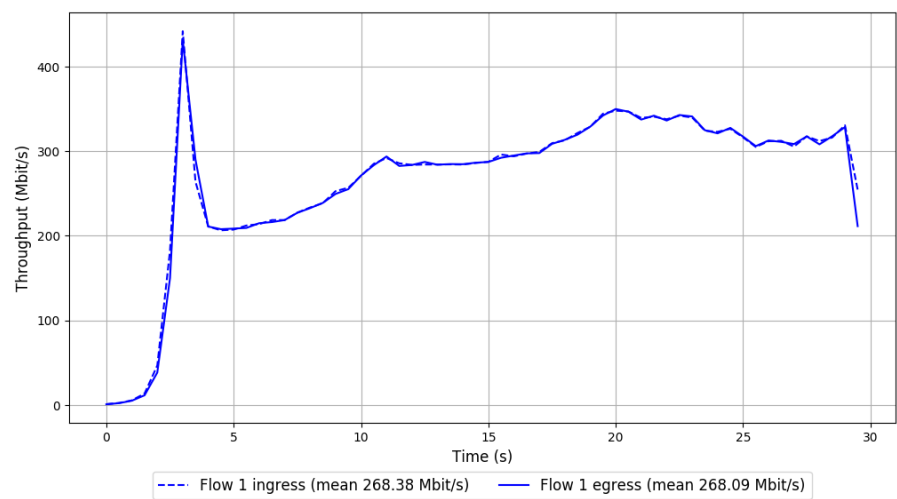
-- Flow 1:

Average throughput: 268.09 Mbit/s

95th percentile per-packet one-way delay: 63.633 ms

Loss rate: 0.52%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-20 10:27:22

End at: 2018-02-20 10:27:52

Below is generated by plot.py at 2018-02-20 15:20:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 265.83 Mbit/s

95th percentile per-packet one-way delay: 63.519 ms

Loss rate: 0.58%

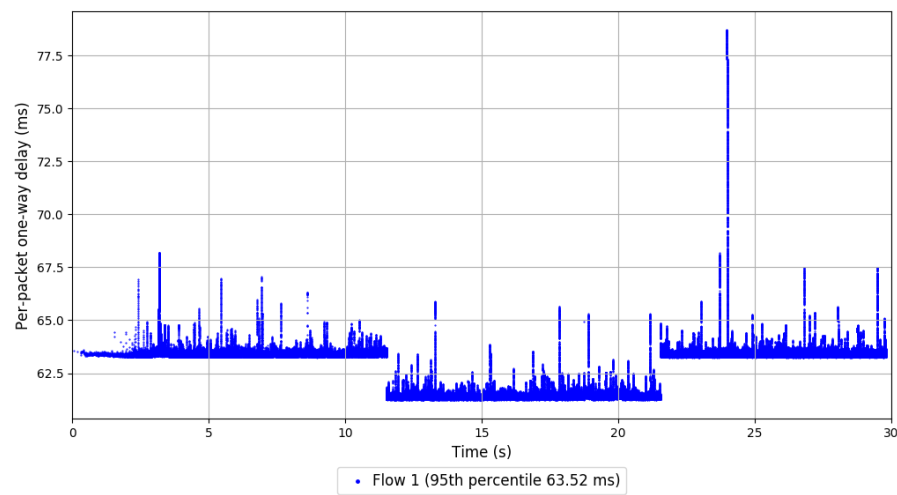
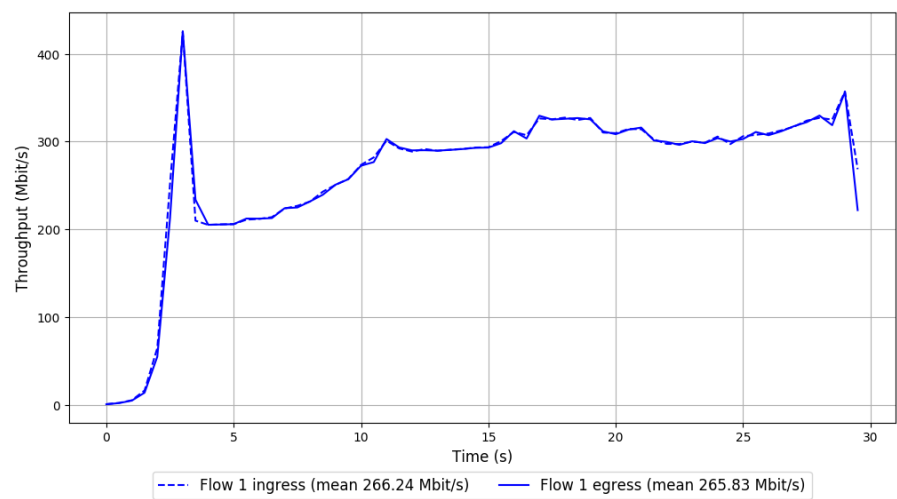
-- Flow 1:

Average throughput: 265.83 Mbit/s

95th percentile per-packet one-way delay: 63.519 ms

Loss rate: 0.58%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-20 10:41:54

End at: 2018-02-20 10:42:24

Below is generated by plot.py at 2018-02-20 15:20:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 359.03 Mbit/s

95th percentile per-packet one-way delay: 64.782 ms

Loss rate: 0.66%

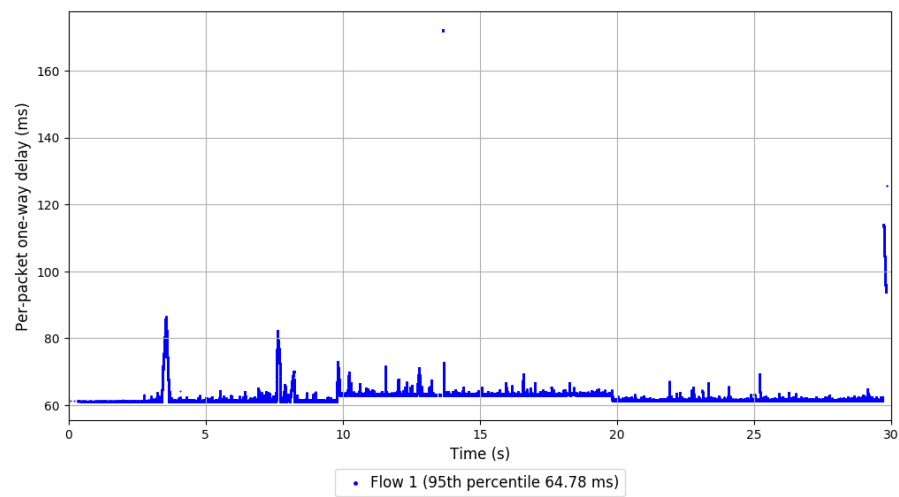
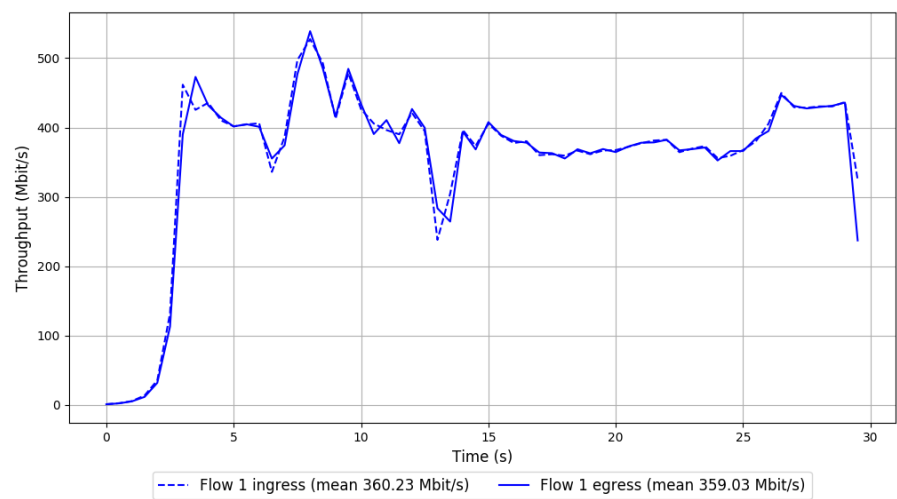
-- Flow 1:

Average throughput: 359.03 Mbit/s

95th percentile per-packet one-way delay: 64.782 ms

Loss rate: 0.66%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-20 10:56:38

End at: 2018-02-20 10:57:08

Below is generated by plot.py at 2018-02-20 15:20:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 305.82 Mbit/s

95th percentile per-packet one-way delay: 64.335 ms

Loss rate: 0.43%

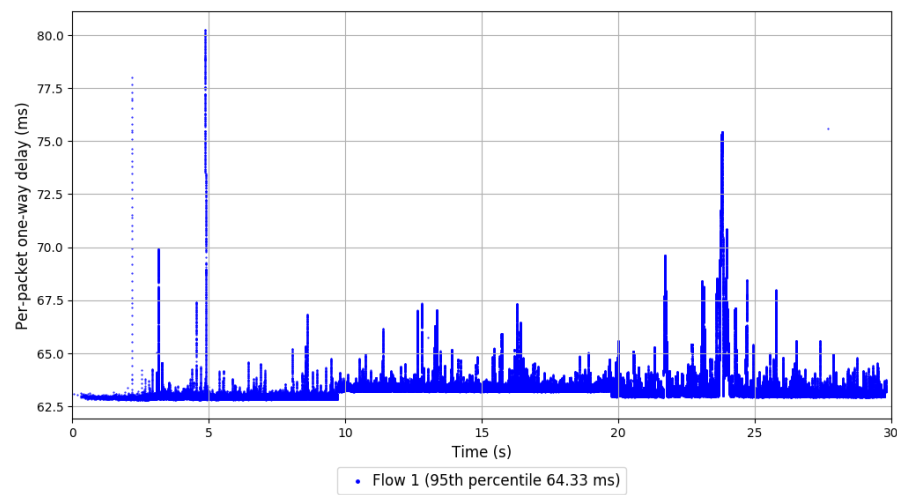
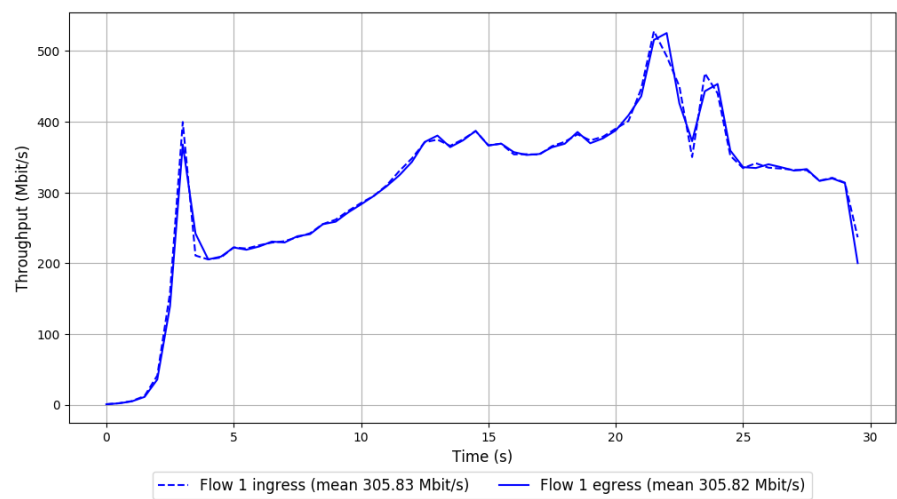
-- Flow 1:

Average throughput: 305.82 Mbit/s

95th percentile per-packet one-way delay: 64.335 ms

Loss rate: 0.43%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-20 11:11:19

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

Below is generated by plot.py at 2018-02-20 15:23:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 379.31 Mbit/s

95th percentile per-packet one-way delay: 67.438 ms

Loss rate: 0.45%

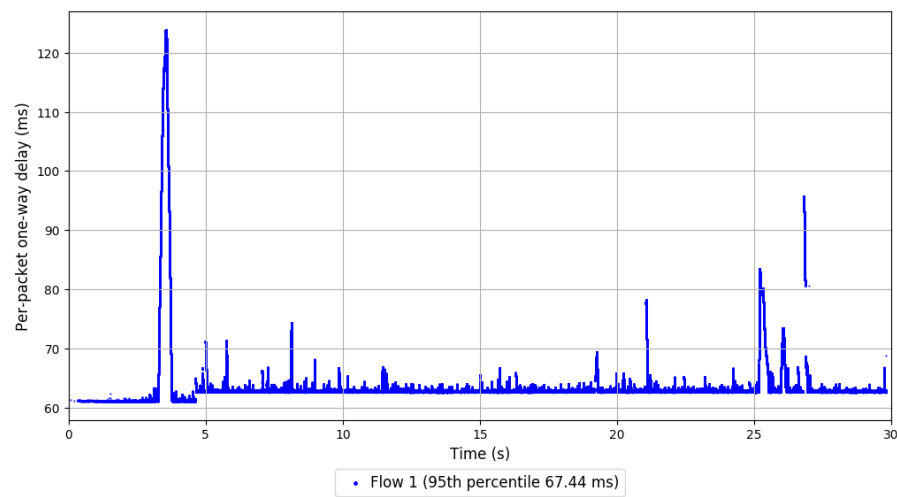
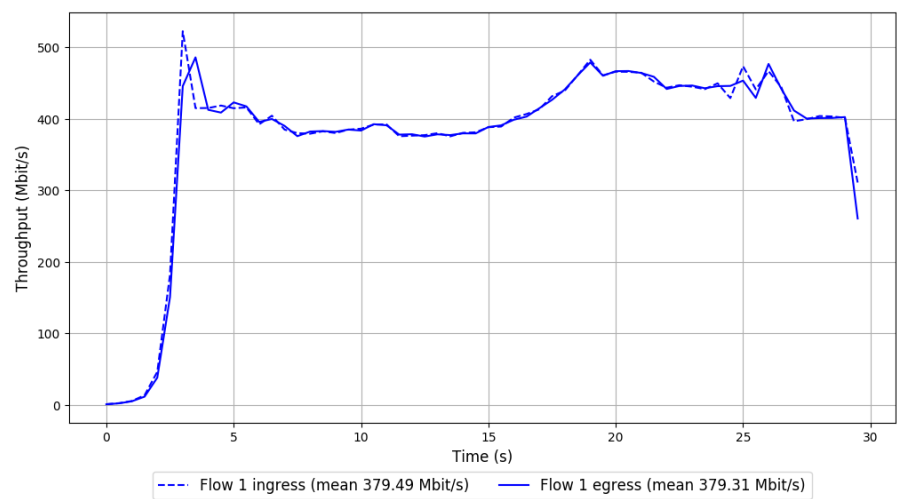
-- Flow 1:

Average throughput: 379.31 Mbit/s

95th percentile per-packet one-way delay: 67.438 ms

Loss rate: 0.45%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-20 11:25:53

End at: 2018-02-20 11:26:23

Below is generated by plot.py at 2018-02-20 15:24:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 400.36 Mbit/s

95th percentile per-packet one-way delay: 66.381 ms

Loss rate: 0.53%

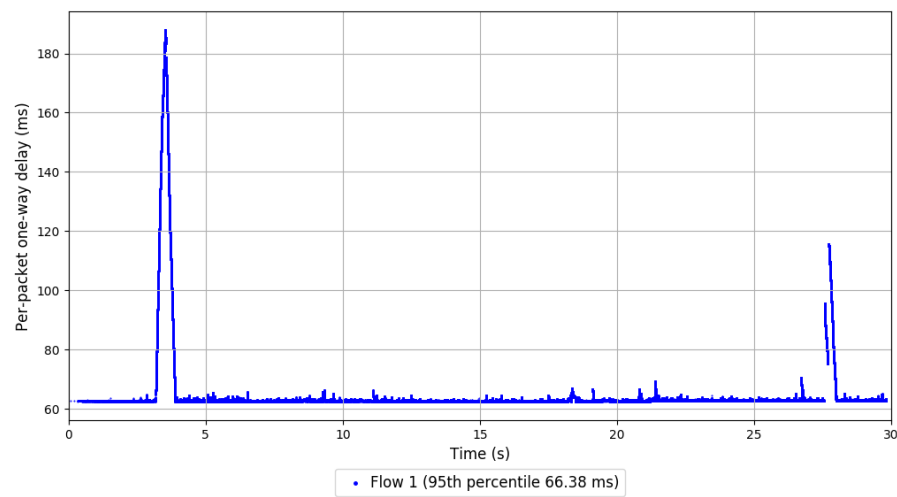
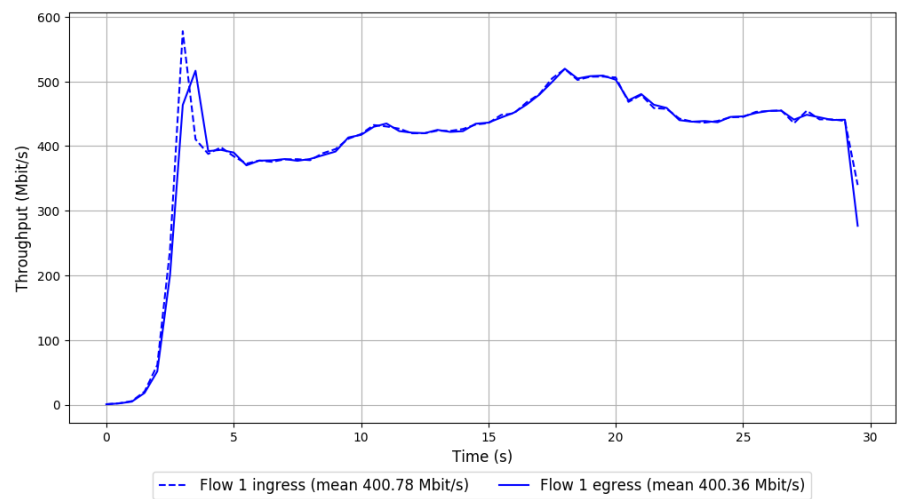
-- Flow 1:

Average throughput: 400.36 Mbit/s

95th percentile per-packet one-way delay: 66.381 ms

Loss rate: 0.53%

Run 10: Report of Vivace-latency — Data Link

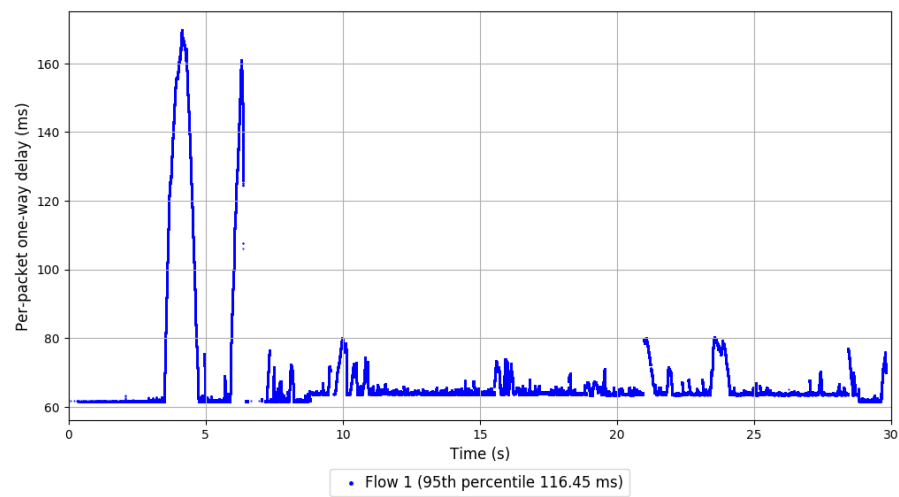
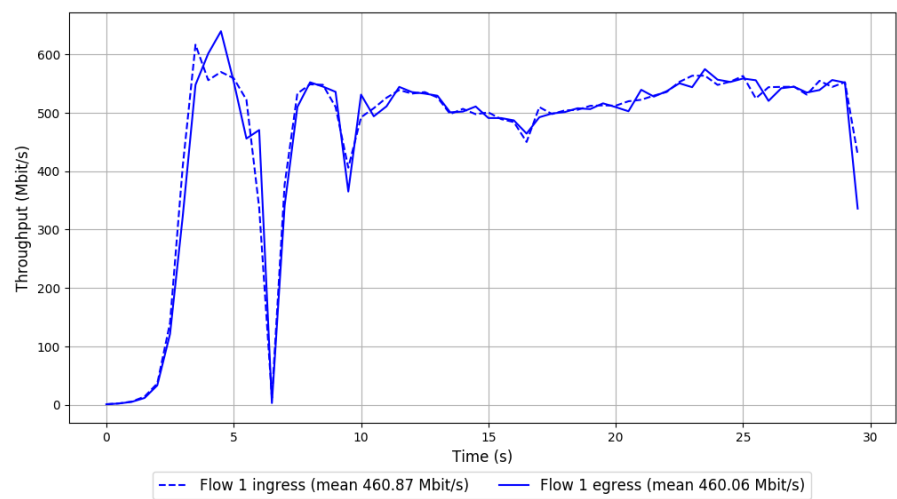


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-20 09:22:25
End at: 2018-02-20 09:22:55

# Below is generated by plot.py at 2018-02-20 15:25:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 460.06 Mbit/s
95th percentile per-packet one-way delay: 116.449 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 460.06 Mbit/s
95th percentile per-packet one-way delay: 116.449 ms
Loss rate: 0.60%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-20 09:37:12

End at: 2018-02-20 09:37:42

Below is generated by plot.py at 2018-02-20 15:25:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 439.54 Mbit/s

95th percentile per-packet one-way delay: 190.283 ms

Loss rate: 1.86%

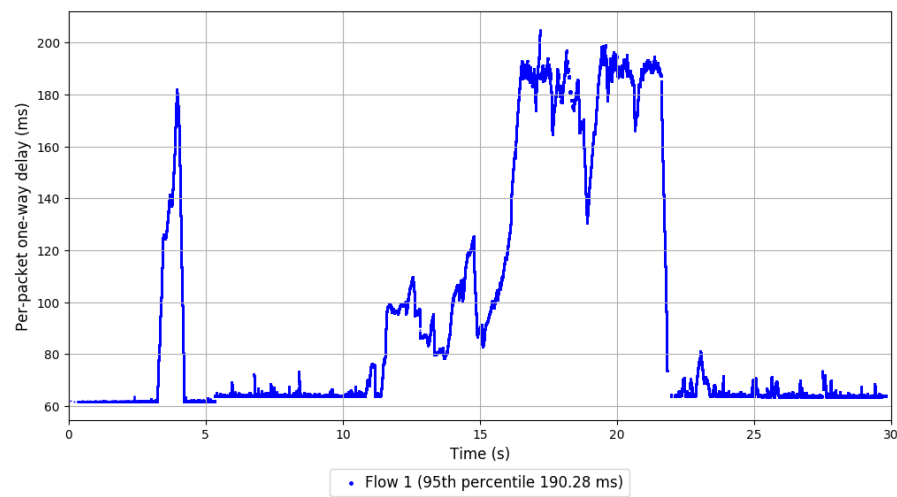
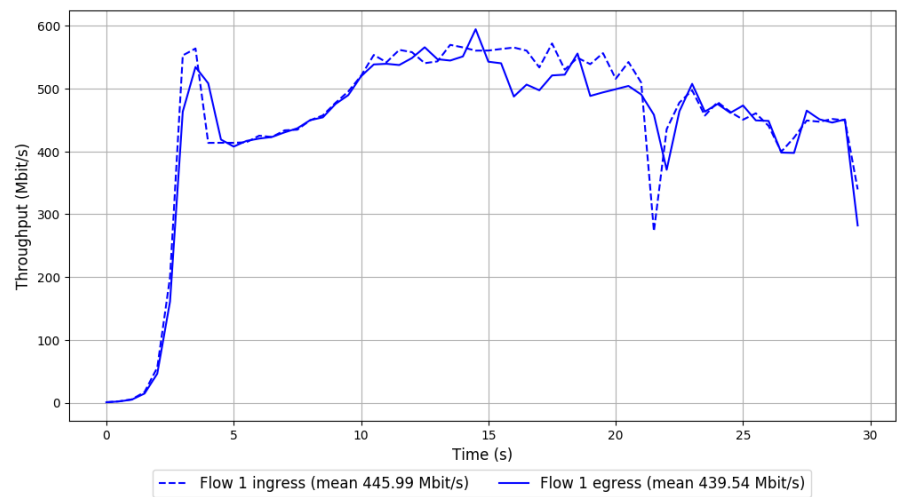
-- Flow 1:

Average throughput: 439.54 Mbit/s

95th percentile per-packet one-way delay: 190.283 ms

Loss rate: 1.86%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-20 09:51:51

End at: 2018-02-20 09:52:21

Below is generated by plot.py at 2018-02-20 15:25:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 356.88 Mbit/s

95th percentile per-packet one-way delay: 66.553 ms

Loss rate: 0.48%

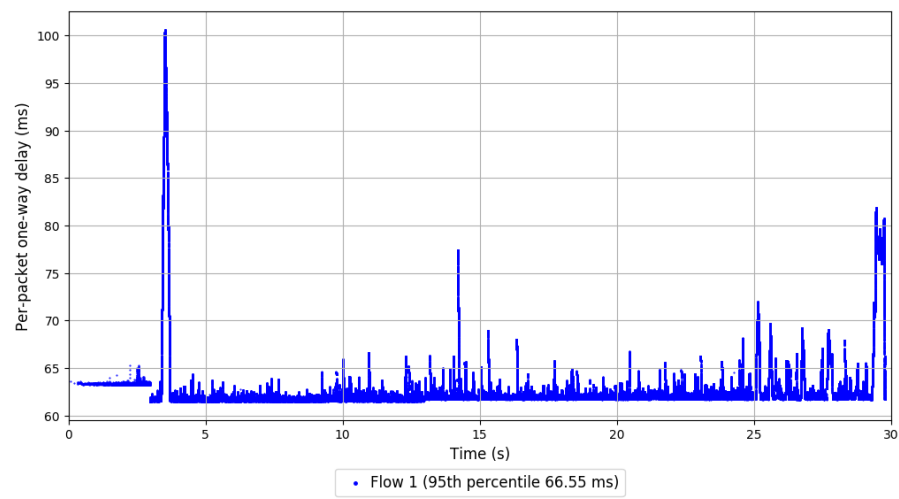
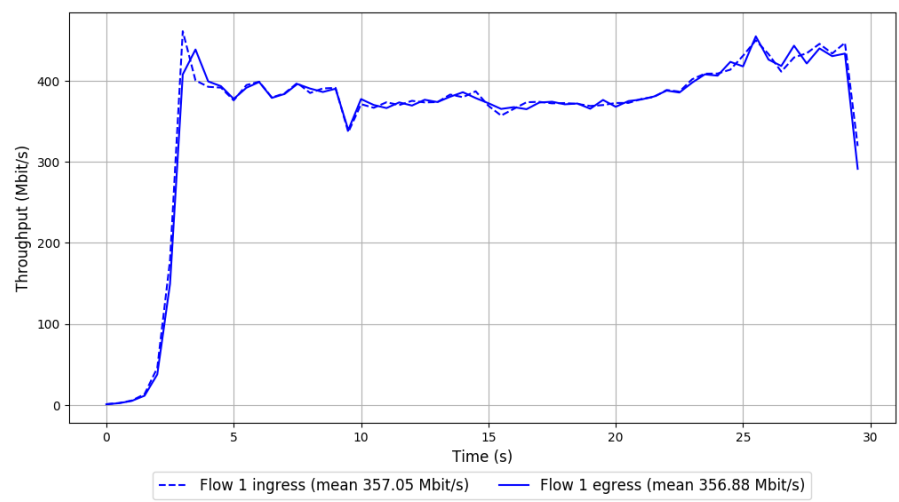
-- Flow 1:

Average throughput: 356.88 Mbit/s

95th percentile per-packet one-way delay: 66.553 ms

Loss rate: 0.48%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-20 10:06:13

End at: 2018-02-20 10:06:43

Below is generated by plot.py at 2018-02-20 15:27:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 427.63 Mbit/s

95th percentile per-packet one-way delay: 160.676 ms

Loss rate: 0.39%

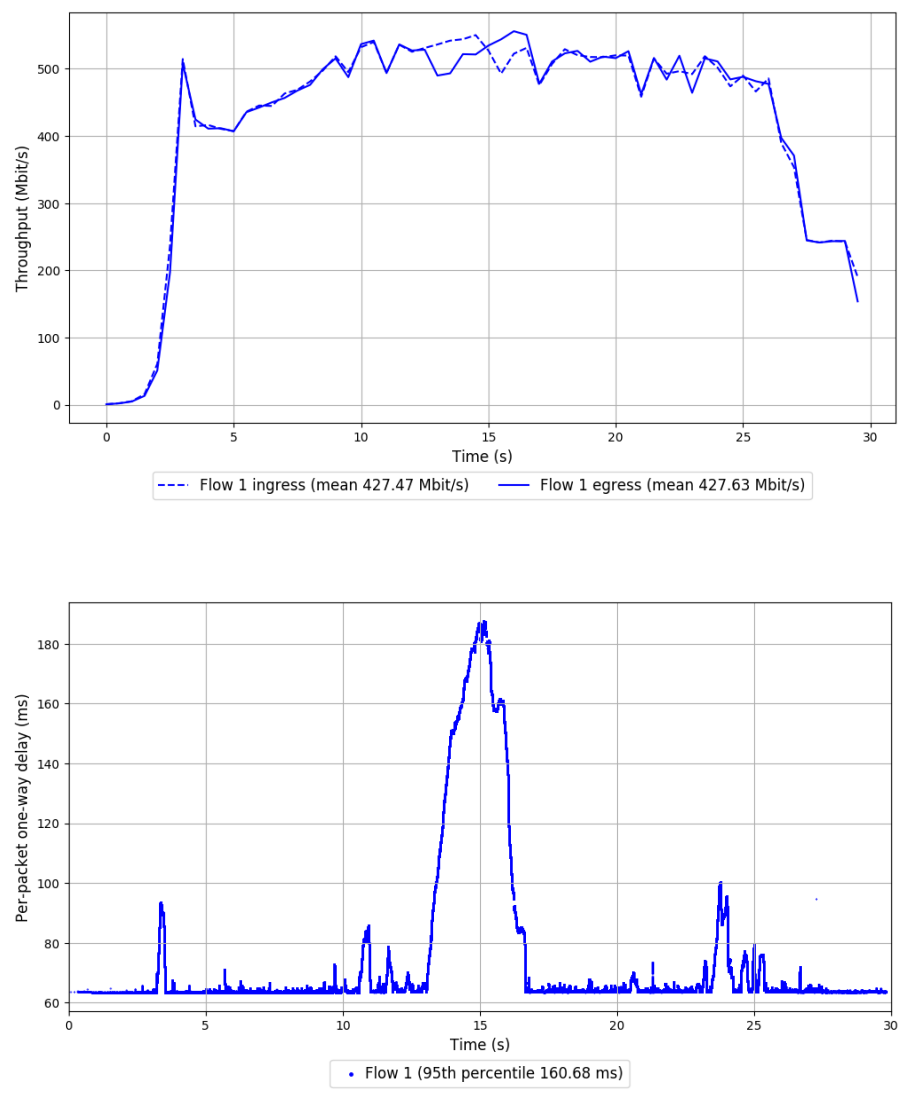
-- Flow 1:

Average throughput: 427.63 Mbit/s

95th percentile per-packet one-way delay: 160.676 ms

Loss rate: 0.39%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-20 10:21:03

End at: 2018-02-20 10:21:33

Below is generated by plot.py at 2018-02-20 15:27:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 365.07 Mbit/s

95th percentile per-packet one-way delay: 63.828 ms

Loss rate: 0.43%

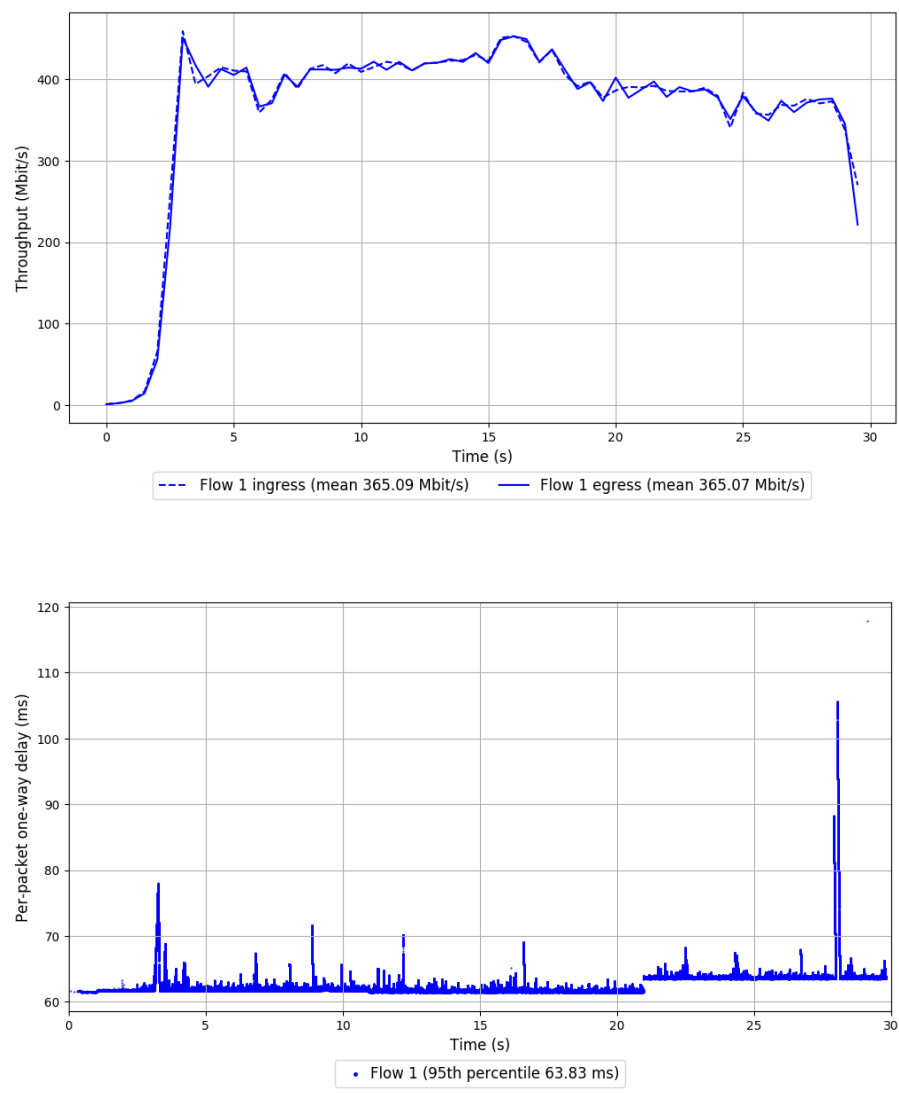
-- Flow 1:

Average throughput: 365.07 Mbit/s

95th percentile per-packet one-way delay: 63.828 ms

Loss rate: 0.43%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-20 10:35:26

End at: 2018-02-20 10:35:56

Below is generated by plot.py at 2018-02-20 15:29:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 441.06 Mbit/s

95th percentile per-packet one-way delay: 123.277 ms

Loss rate: 0.73%

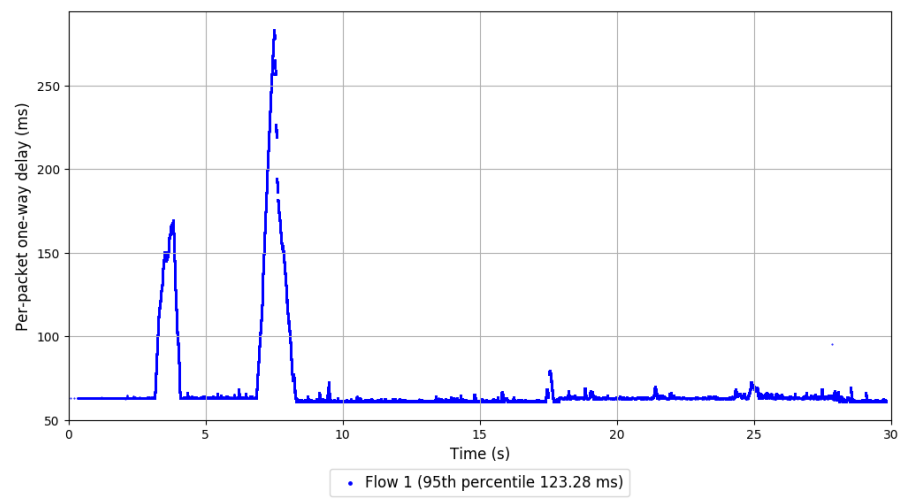
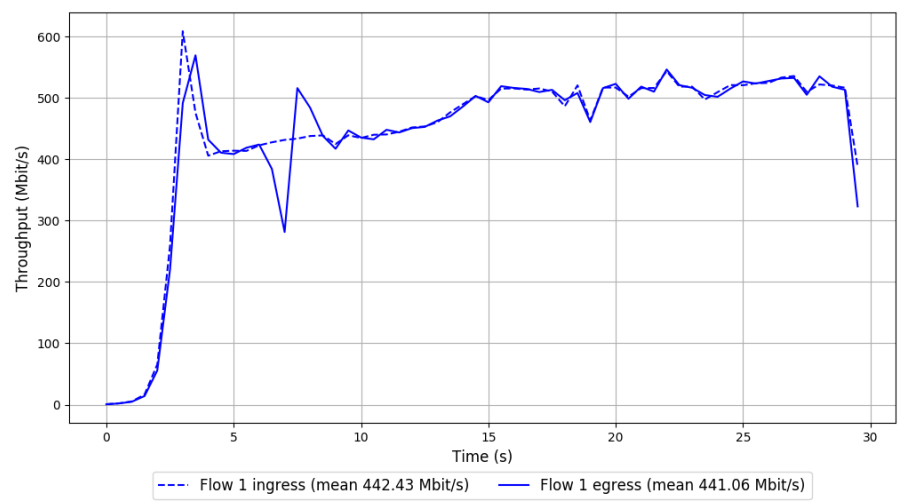
-- Flow 1:

Average throughput: 441.06 Mbit/s

95th percentile per-packet one-way delay: 123.277 ms

Loss rate: 0.73%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-20 10:50:11

End at: 2018-02-20 10:50:41

Below is generated by plot.py at 2018-02-20 15:30:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 389.73 Mbit/s

95th percentile per-packet one-way delay: 103.314 ms

Loss rate: 0.92%

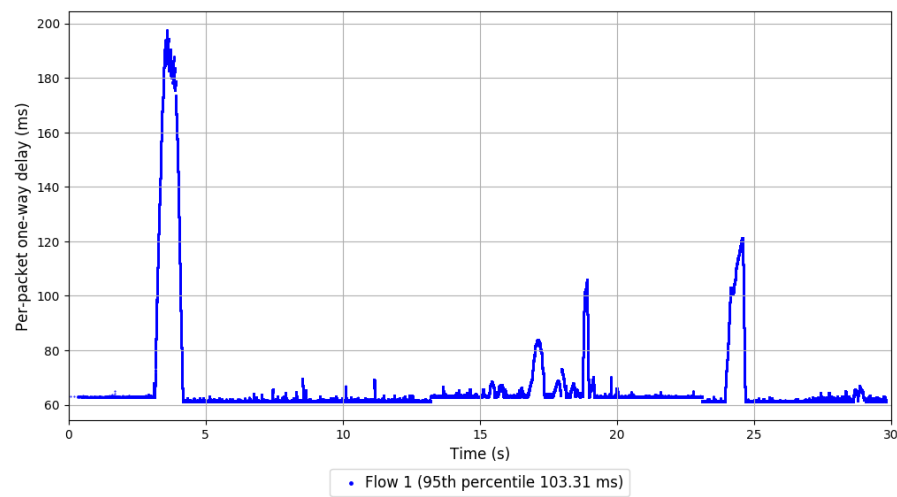
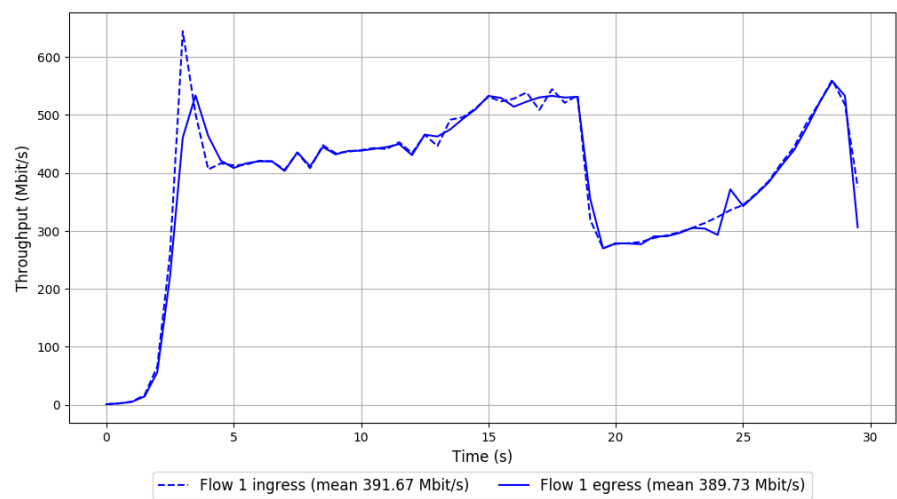
-- Flow 1:

Average throughput: 389.73 Mbit/s

95th percentile per-packet one-way delay: 103.314 ms

Loss rate: 0.92%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-20 11:04:45

End at: 2018-02-20 11:05:15

Below is generated by plot.py at 2018-02-20 15:31:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 424.73 Mbit/s

95th percentile per-packet one-way delay: 187.660 ms

Loss rate: 1.56%

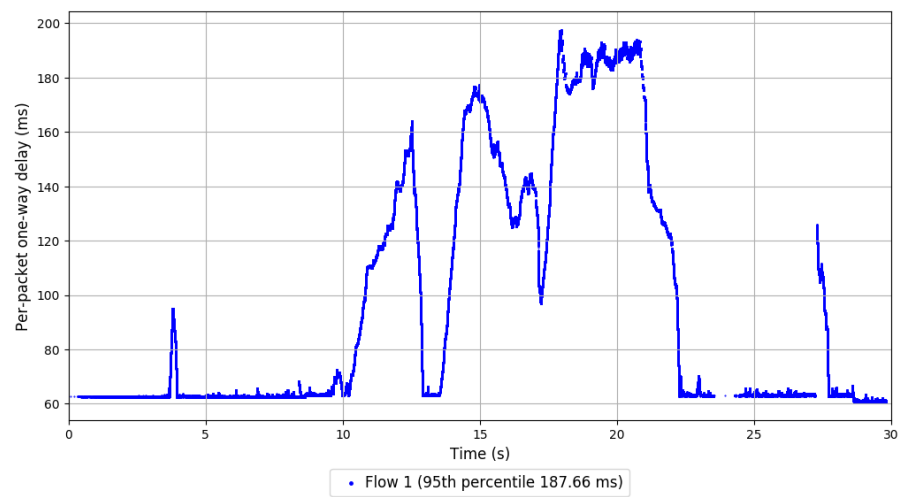
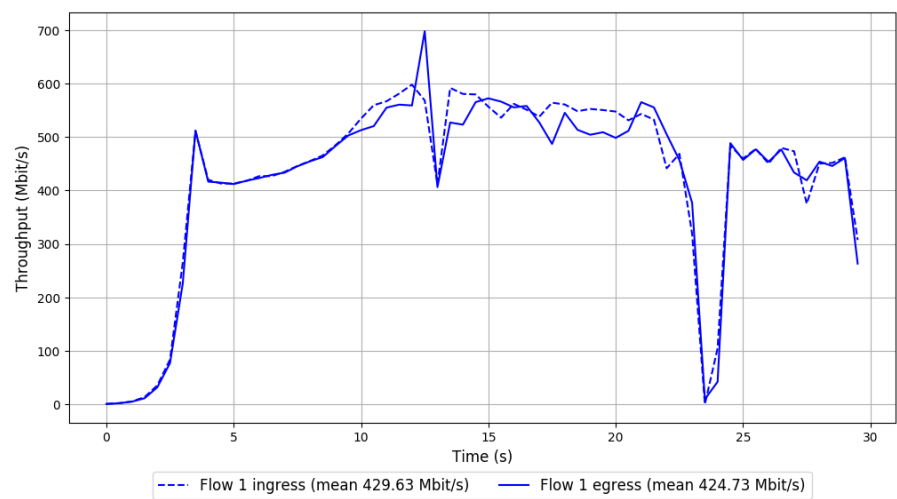
-- Flow 1:

Average throughput: 424.73 Mbit/s

95th percentile per-packet one-way delay: 187.660 ms

Loss rate: 1.56%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-20 11:19:19

End at: 2018-02-20 11:19:49

Below is generated by plot.py at 2018-02-20 15:31:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 378.64 Mbit/s

95th percentile per-packet one-way delay: 191.924 ms

Loss rate: 3.29%

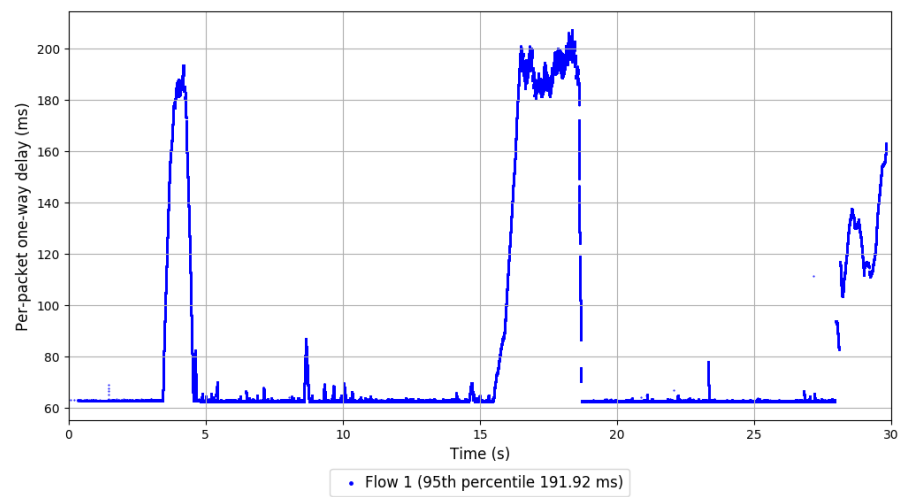
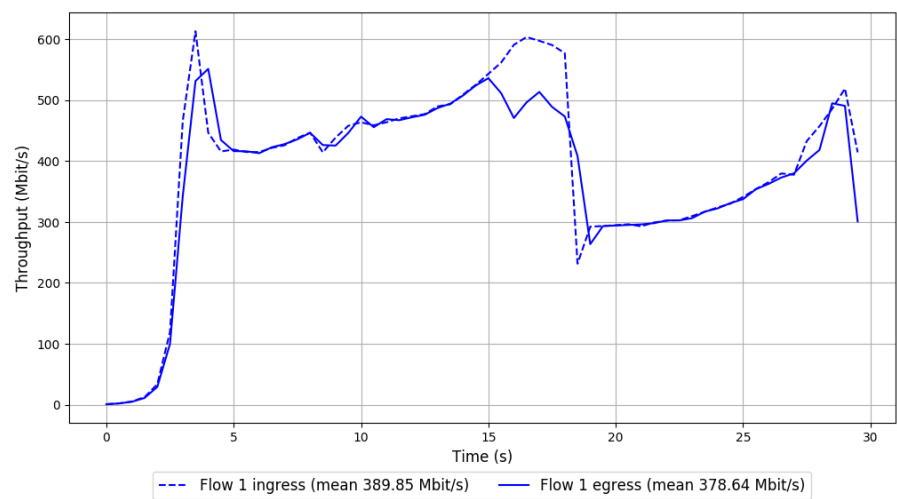
-- Flow 1:

Average throughput: 378.64 Mbit/s

95th percentile per-packet one-way delay: 191.924 ms

Loss rate: 3.29%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-20 11:34:08

End at: 2018-02-20 11:34:38

Below is generated by plot.py at 2018-02-20 15:31:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 367.73 Mbit/s

95th percentile per-packet one-way delay: 187.729 ms

Loss rate: 3.49%

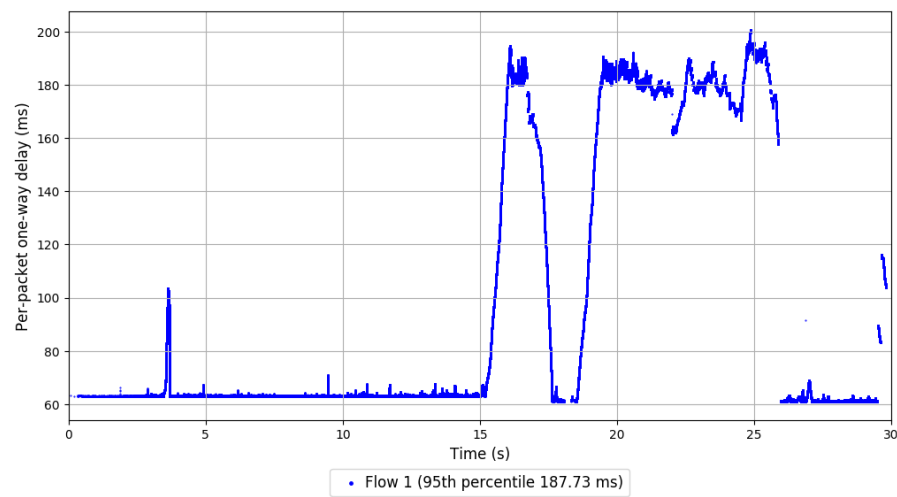
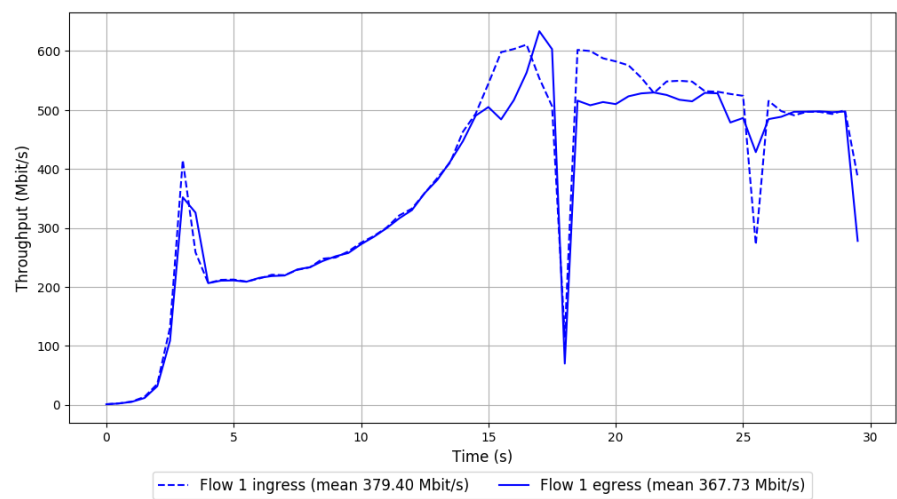
-- Flow 1:

Average throughput: 367.73 Mbit/s

95th percentile per-packet one-way delay: 187.729 ms

Loss rate: 3.49%

Run 10: Report of Vivace-loss — Data Link

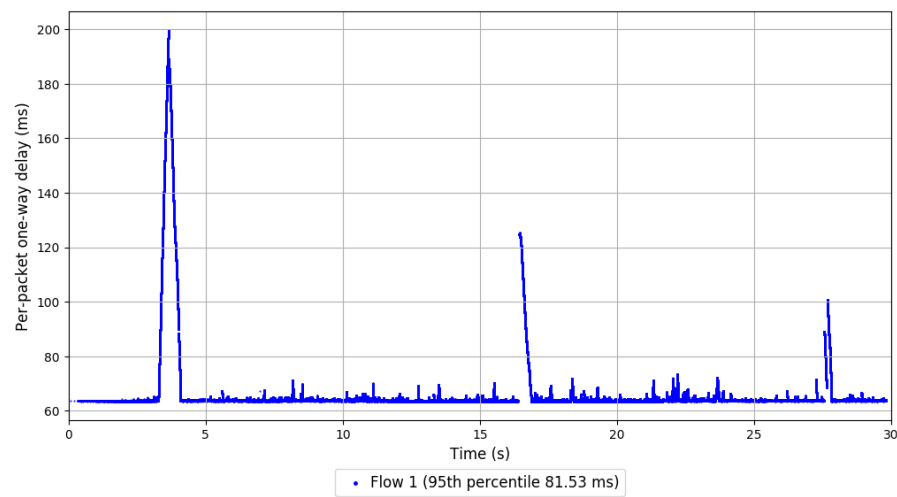
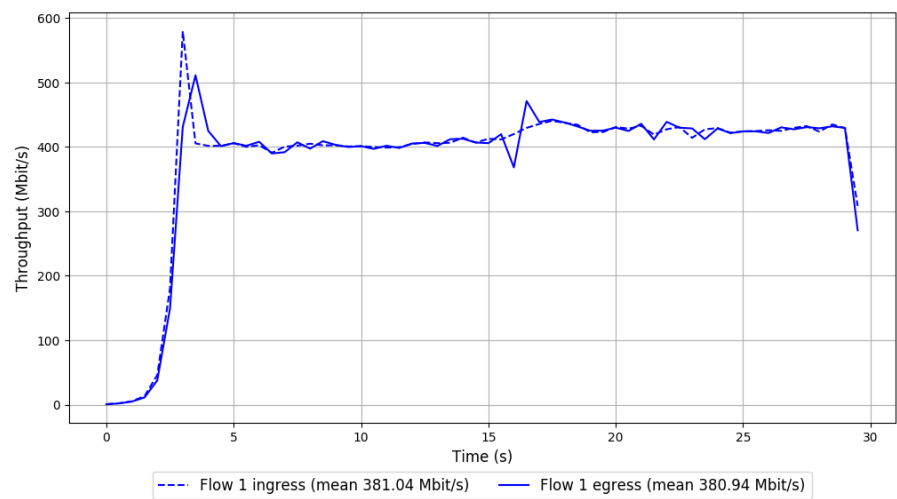


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-20 09:17:52
End at: 2018-02-20 09:18:22

# Below is generated by plot.py at 2018-02-20 15:32:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 380.94 Mbit/s
95th percentile per-packet one-way delay: 81.535 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 380.94 Mbit/s
95th percentile per-packet one-way delay: 81.535 ms
Loss rate: 0.45%
```

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-20 09:32:39

End at: 2018-02-20 09:33:09

Below is generated by plot.py at 2018-02-20 15:35:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 389.52 Mbit/s

95th percentile per-packet one-way delay: 65.932 ms

Loss rate: 0.50%

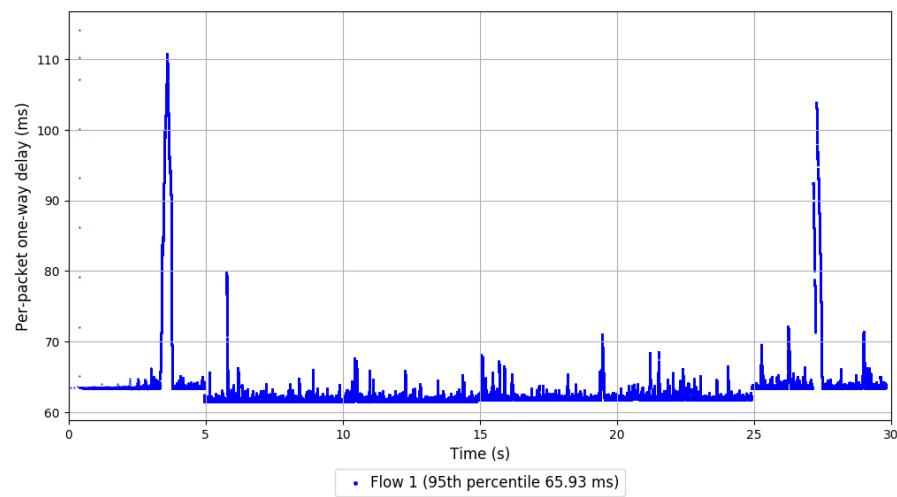
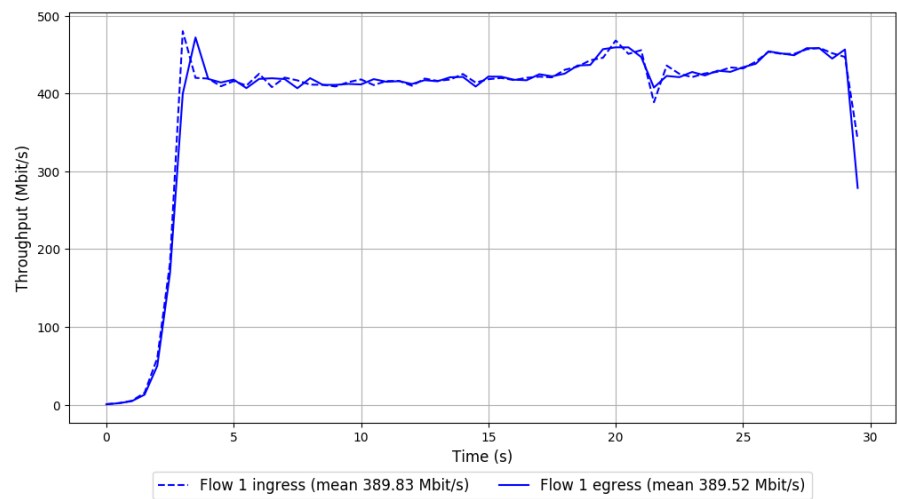
-- Flow 1:

Average throughput: 389.52 Mbit/s

95th percentile per-packet one-way delay: 65.932 ms

Loss rate: 0.50%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-20 09:47:19

End at: 2018-02-20 09:47:49

Below is generated by plot.py at 2018-02-20 15:35:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 350.69 Mbit/s

95th percentile per-packet one-way delay: 64.360 ms

Loss rate: 0.44%

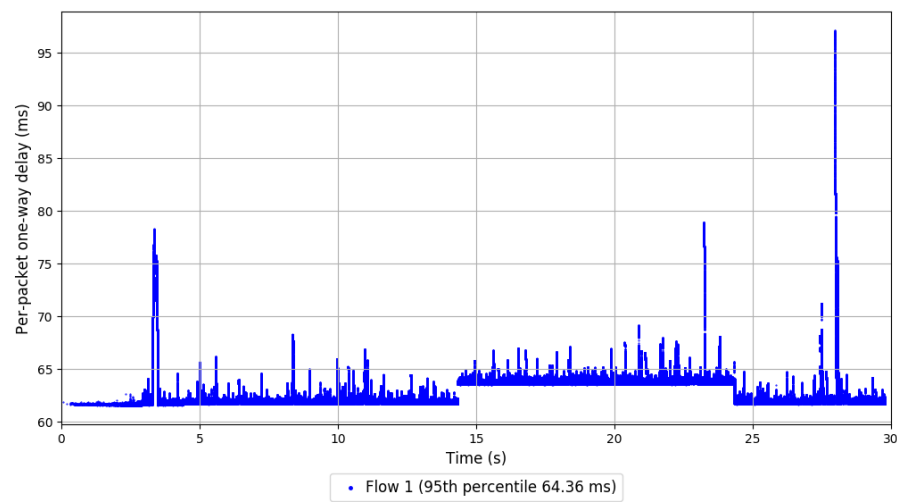
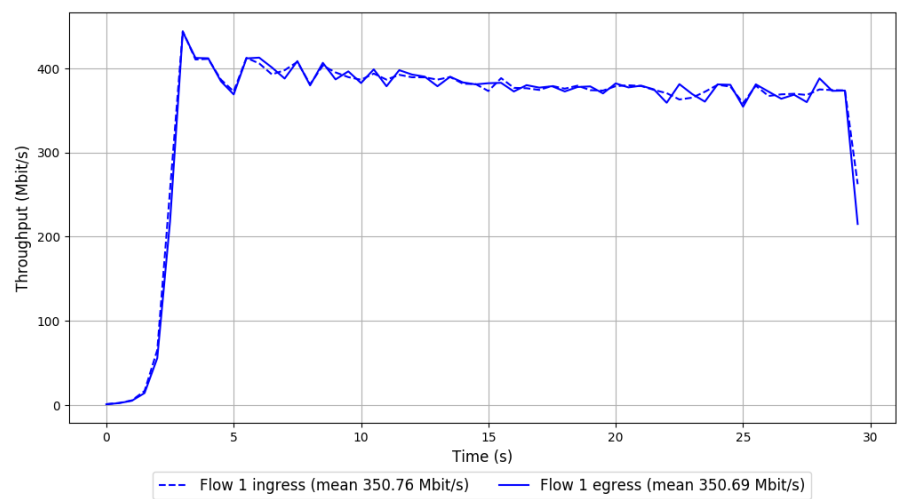
-- Flow 1:

Average throughput: 350.69 Mbit/s

95th percentile per-packet one-way delay: 64.360 ms

Loss rate: 0.44%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-20 10:01:43

End at: 2018-02-20 10:02:13

Below is generated by plot.py at 2018-02-20 15:35:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 313.22 Mbit/s

95th percentile per-packet one-way delay: 64.112 ms

Loss rate: 0.55%

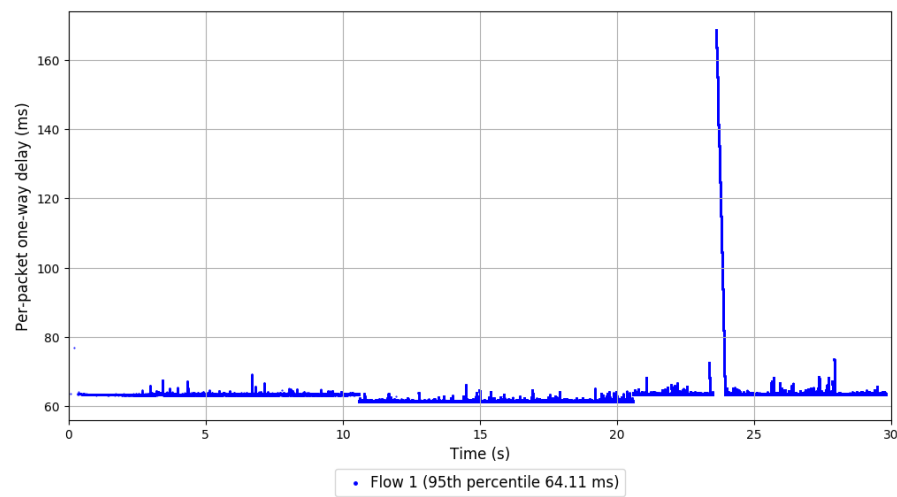
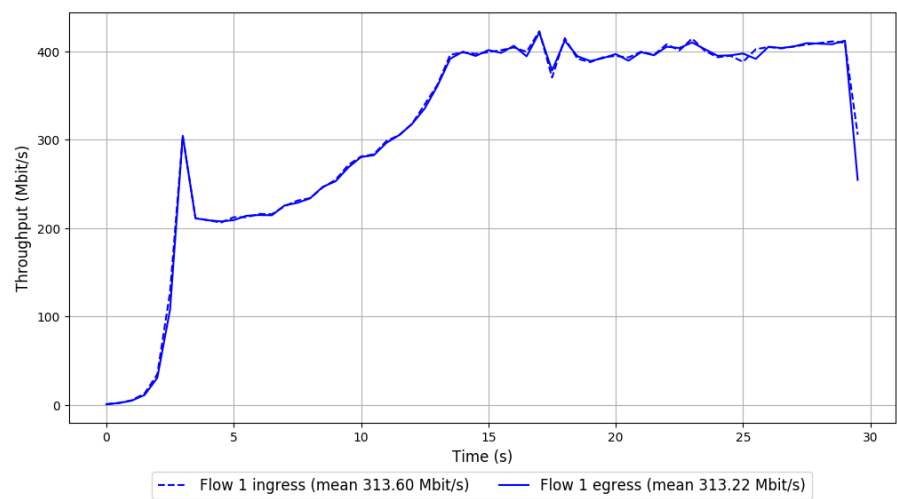
-- Flow 1:

Average throughput: 313.22 Mbit/s

95th percentile per-packet one-way delay: 64.112 ms

Loss rate: 0.55%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-20 10:16:29

End at: 2018-02-20 10:16:59

Below is generated by plot.py at 2018-02-20 15:36:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 364.12 Mbit/s

95th percentile per-packet one-way delay: 69.074 ms

Loss rate: 0.47%

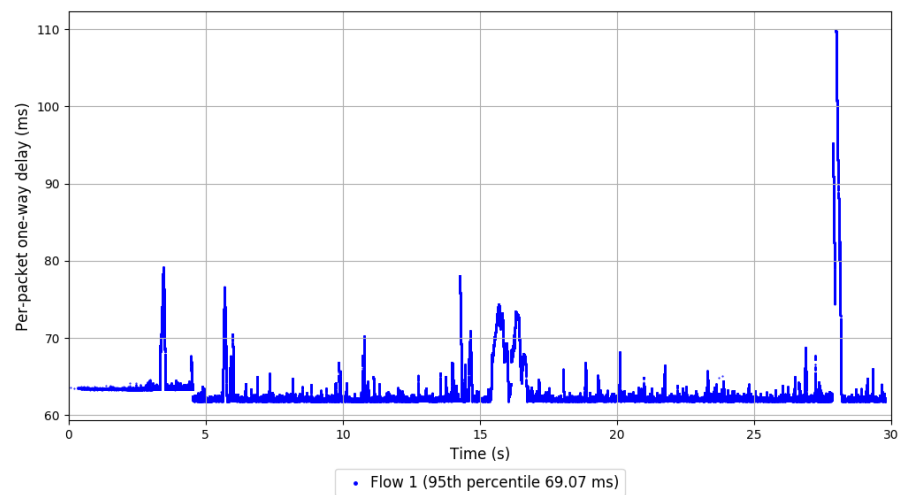
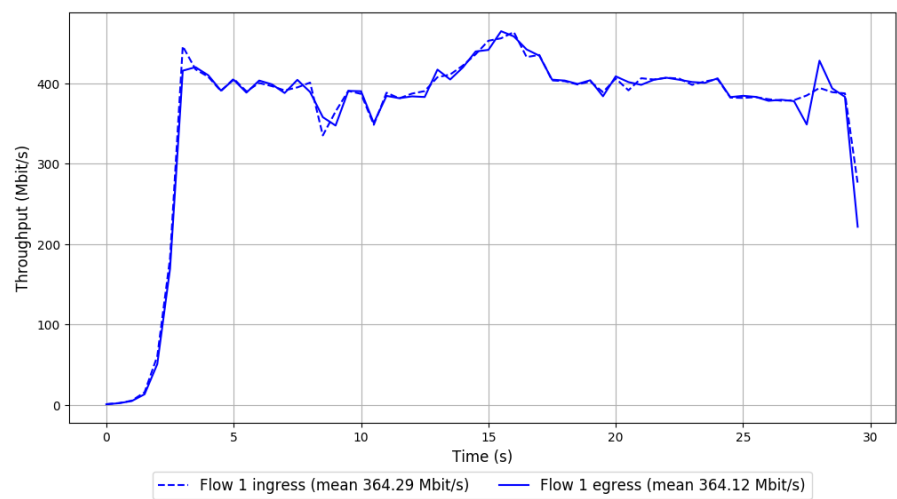
-- Flow 1:

Average throughput: 364.12 Mbit/s

95th percentile per-packet one-way delay: 69.074 ms

Loss rate: 0.47%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-20 10:30:58

End at: 2018-02-20 10:31:28

Below is generated by plot.py at 2018-02-20 15:36:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 278.76 Mbit/s

95th percentile per-packet one-way delay: 63.385 ms

Loss rate: 0.56%

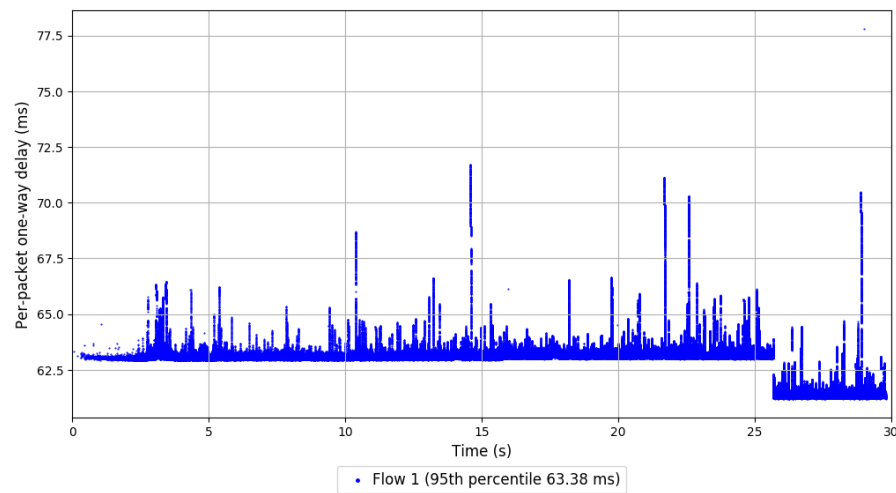
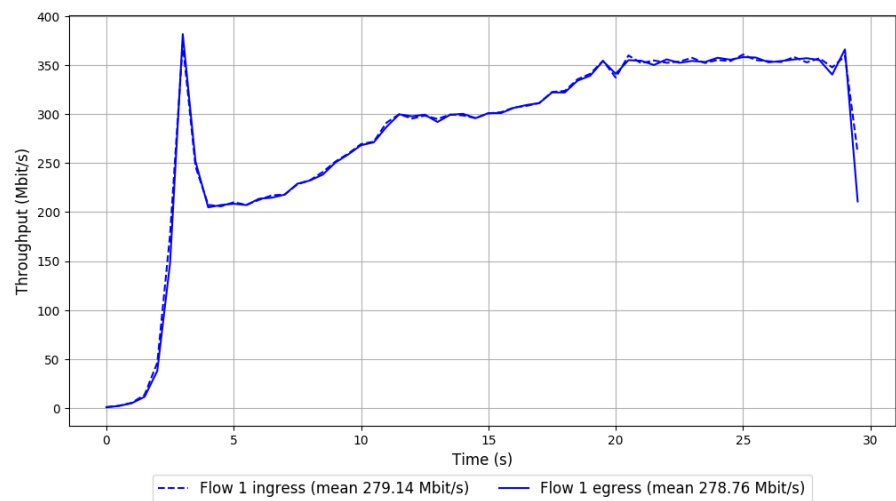
-- Flow 1:

Average throughput: 278.76 Mbit/s

95th percentile per-packet one-way delay: 63.385 ms

Loss rate: 0.56%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-20 10:45:35

End at: 2018-02-20 10:46:05

Below is generated by plot.py at 2018-02-20 15:37:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 404.34 Mbit/s

95th percentile per-packet one-way delay: 68.257 ms

Loss rate: 0.47%

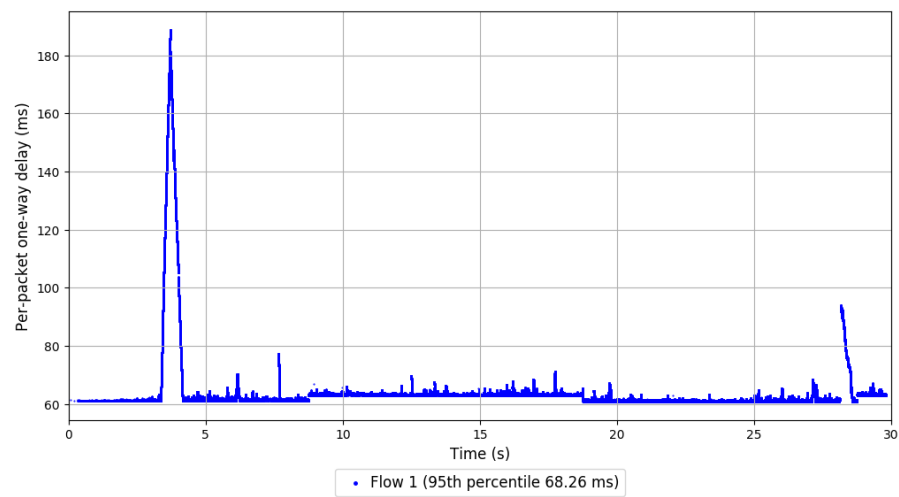
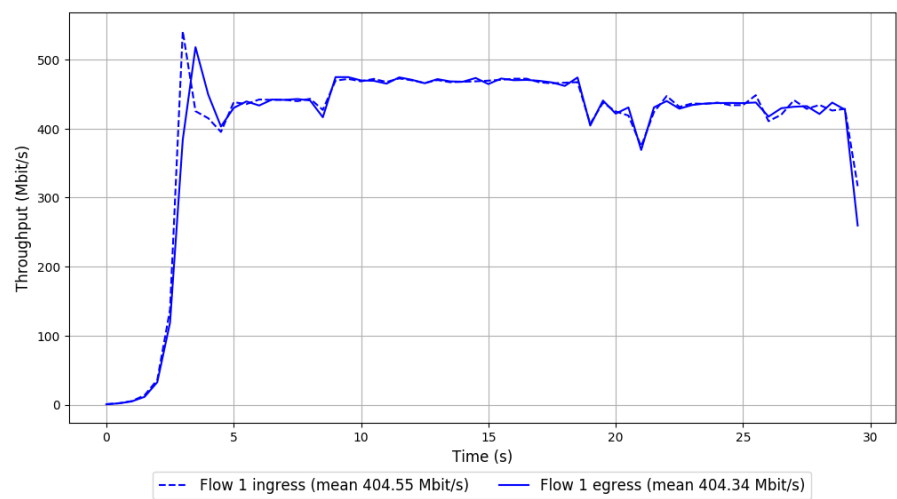
-- Flow 1:

Average throughput: 404.34 Mbit/s

95th percentile per-packet one-way delay: 68.257 ms

Loss rate: 0.47%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-20 11:00:14

End at: 2018-02-20 11:00:44

Below is generated by plot.py at 2018-02-20 15:37:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 357.64 Mbit/s

95th percentile per-packet one-way delay: 74.810 ms

Loss rate: 0.53%

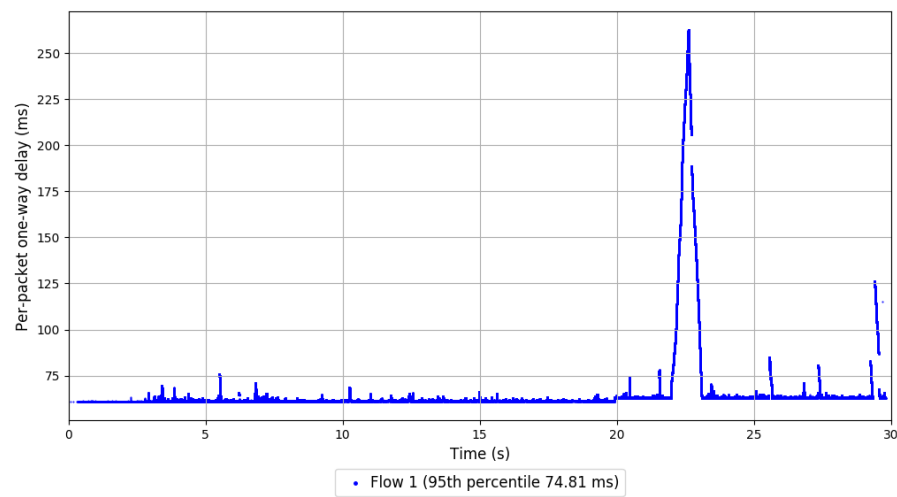
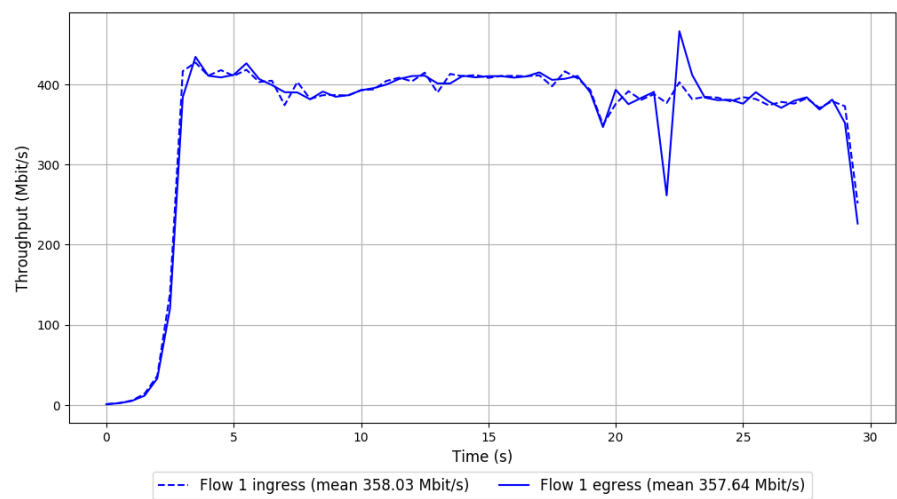
-- Flow 1:

Average throughput: 357.64 Mbit/s

95th percentile per-packet one-way delay: 74.810 ms

Loss rate: 0.53%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-20 11:14:46

End at: 2018-02-20 11:15:16

Below is generated by plot.py at 2018-02-20 15:37:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 360.81 Mbit/s

95th percentile per-packet one-way delay: 67.548 ms

Loss rate: 0.53%

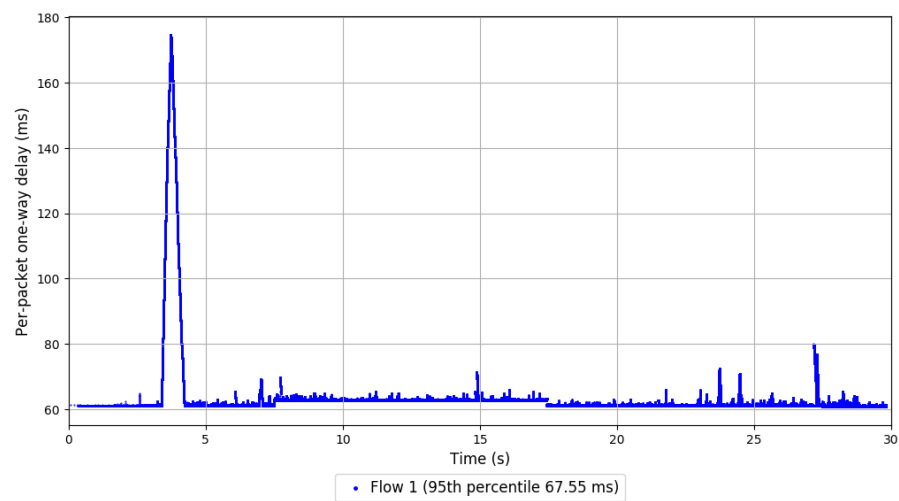
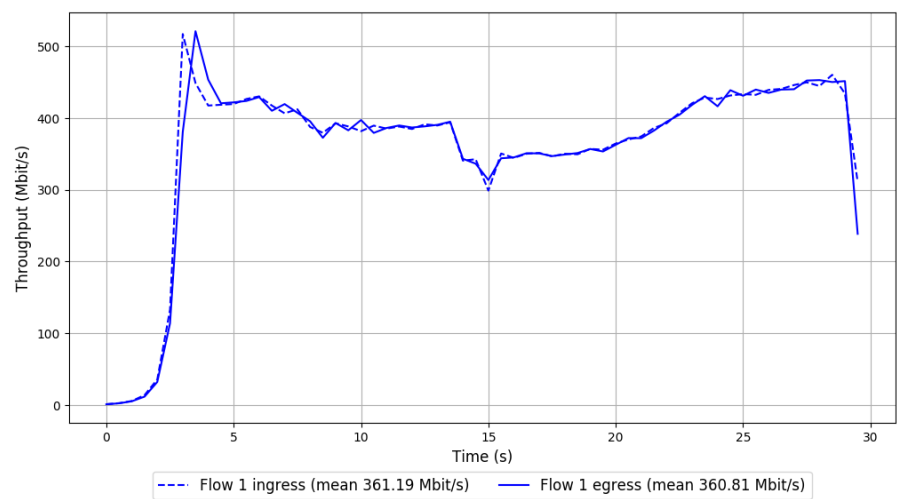
-- Flow 1:

Average throughput: 360.81 Mbit/s

95th percentile per-packet one-way delay: 67.548 ms

Loss rate: 0.53%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-20 11:29:33

End at: 2018-02-20 11:30:03

Below is generated by plot.py at 2018-02-20 15:37:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 410.45 Mbit/s

95th percentile per-packet one-way delay: 140.118 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 410.45 Mbit/s

95th percentile per-packet one-way delay: 140.118 ms

Loss rate: 0.47%

Run 10: Report of Vivace-LTE — Data Link

