

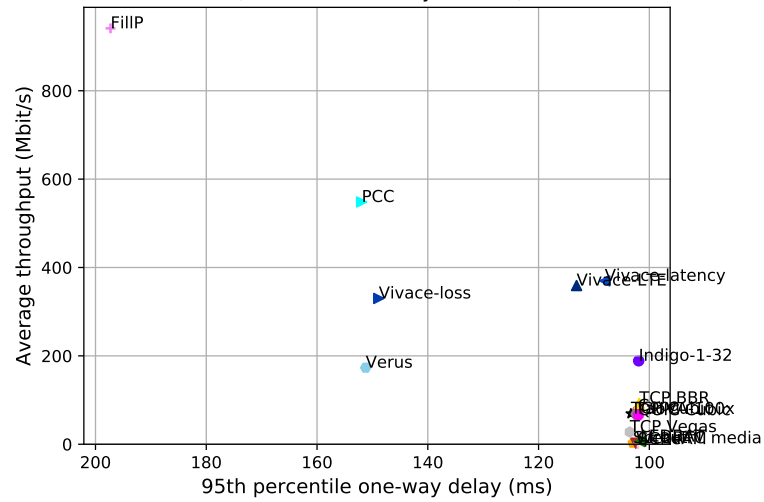
Pantheon Report

Generated at 2018-02-16 04:33:10 (UTC).
Data path: GCE Tokyo Ethernet (*remote*) → GCE London Ethernet (*local*).
Repeated the test of 17 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

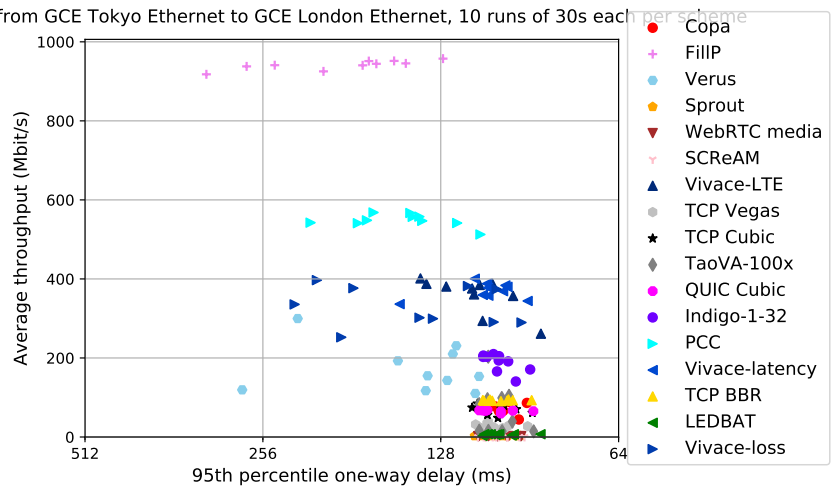
Git summary:

```
branch: master @ cccb2d77344969a7bac1df6edf6c0cfb6c77a6f8
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 8400b8926887fc4cf8c795a1d7ce2c8ac041ec72
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	92.69	101.82	0.82
TCP Cubic	10	69.14	103.33	0.98
LEDBAT	10	6.08	101.69	1.64
PCC	10	548.26	151.94	1.62
QUIC Cubic	9	65.80	101.97	1.01
SCReAM	10	0.20	102.05	0.71
WebRTC media	10	2.18	102.44	0.90
Sprout	10	2.77	102.96	0.73
TaoVA-100x	10	68.52	102.54	0.97
TCP Vegas	10	27.55	103.53	0.69
Verus	10	173.18	151.22	1.67
Copa	10	75.60	102.08	0.54
FillP	10	941.27	197.29	1.47
Indigo-1-32	10	188.83	101.92	0.79
Vivace-latency	10	369.67	108.05	0.85
Vivace-loss	10	329.94	148.85	1.62
Vivace-LTE	10	359.17	113.14	1.22

Run 1: Statistics of TCP BBR

Start at: 2018-02-15 22:14:55

End at: 2018-02-15 22:15:25

Below is generated by plot.py at 2018-02-16 03:24:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.10 Mbit/s

95th percentile per-packet one-way delay: 98.800 ms

Loss rate: 0.79%

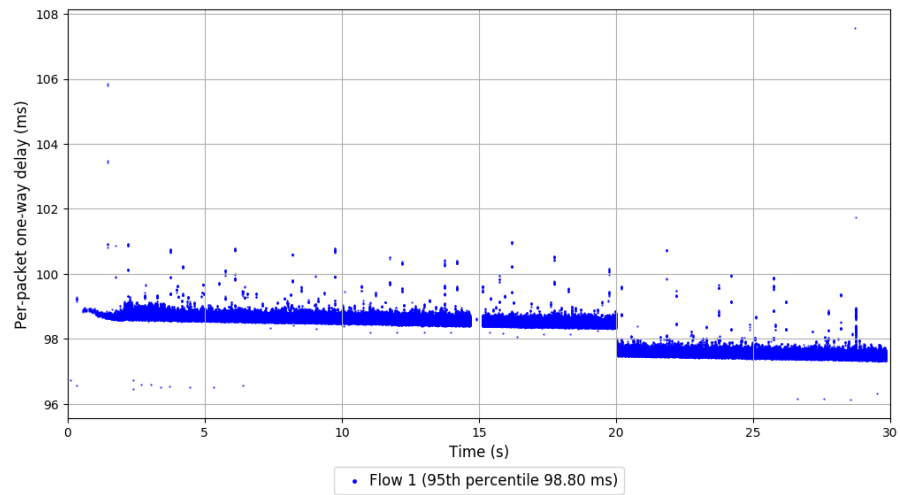
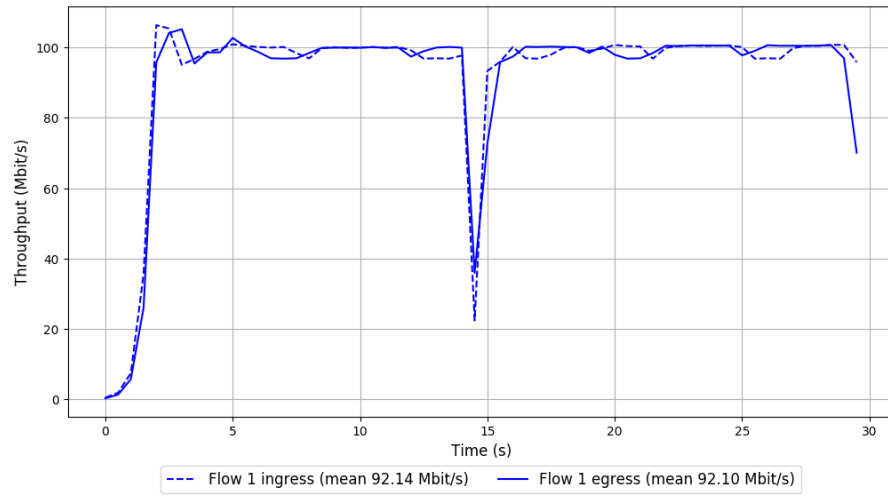
-- Flow 1:

Average throughput: 92.10 Mbit/s

95th percentile per-packet one-way delay: 98.800 ms

Loss rate: 0.79%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-15 22:32:01

End at: 2018-02-15 22:32:31

Below is generated by plot.py at 2018-02-16 03:24:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.10 Mbit/s

95th percentile per-packet one-way delay: 98.311 ms

Loss rate: 0.80%

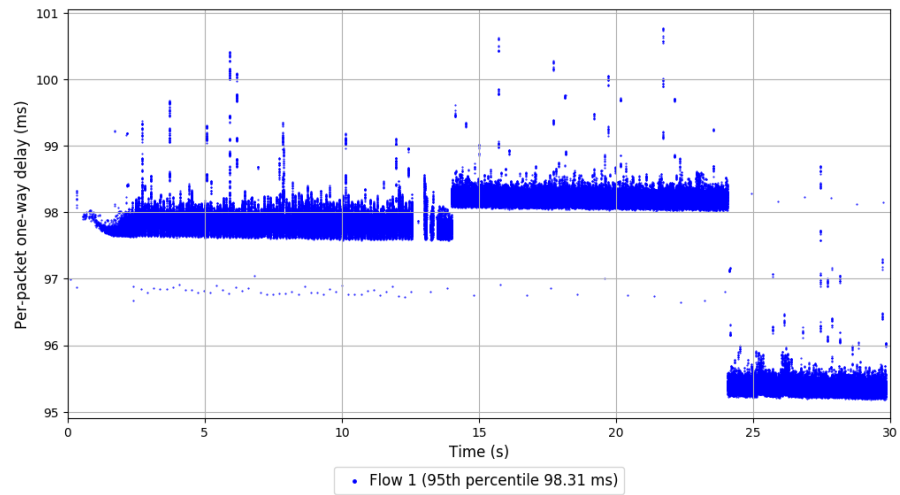
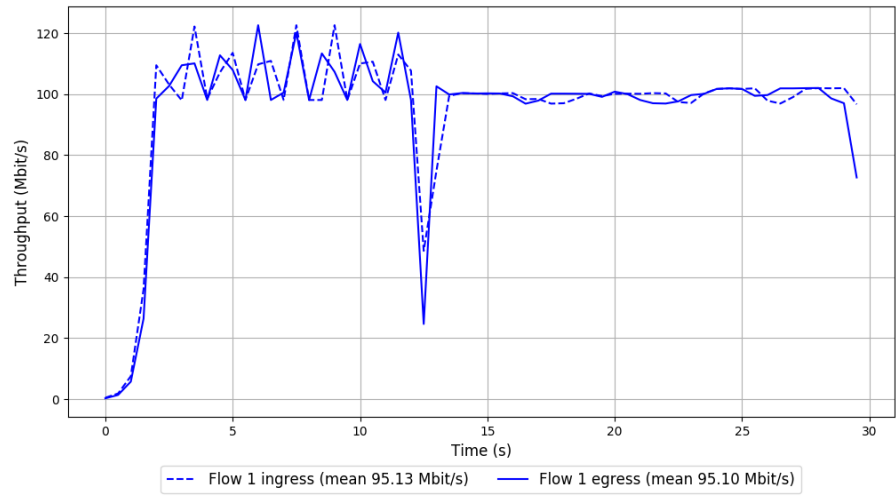
-- Flow 1:

Average throughput: 95.10 Mbit/s

95th percentile per-packet one-way delay: 98.311 ms

Loss rate: 0.80%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-15 22:47:31

End at: 2018-02-15 22:48:01

Below is generated by plot.py at 2018-02-16 03:24:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.18 Mbit/s

95th percentile per-packet one-way delay: 89.816 ms

Loss rate: 0.87%

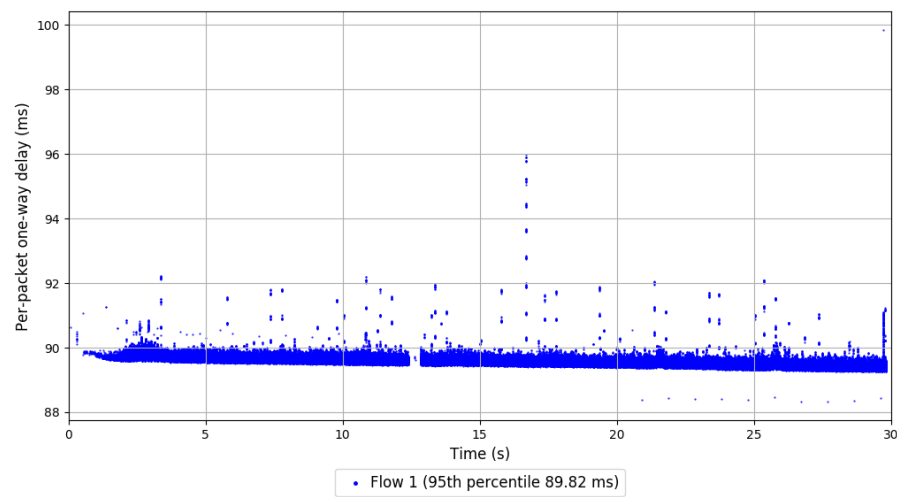
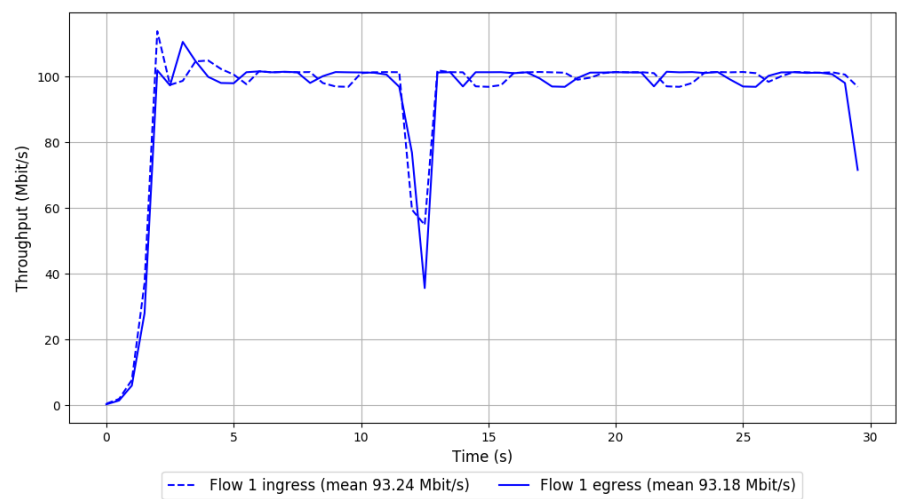
-- Flow 1:

Average throughput: 93.18 Mbit/s

95th percentile per-packet one-way delay: 89.816 ms

Loss rate: 0.87%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-15 23:02:45

End at: 2018-02-15 23:03:15

Below is generated by plot.py at 2018-02-16 03:24:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.04 Mbit/s

95th percentile per-packet one-way delay: 96.675 ms

Loss rate: 0.78%

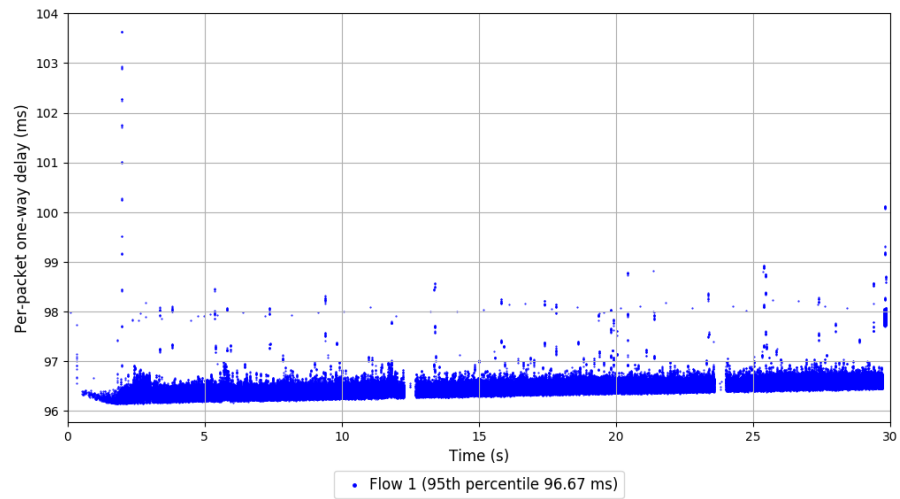
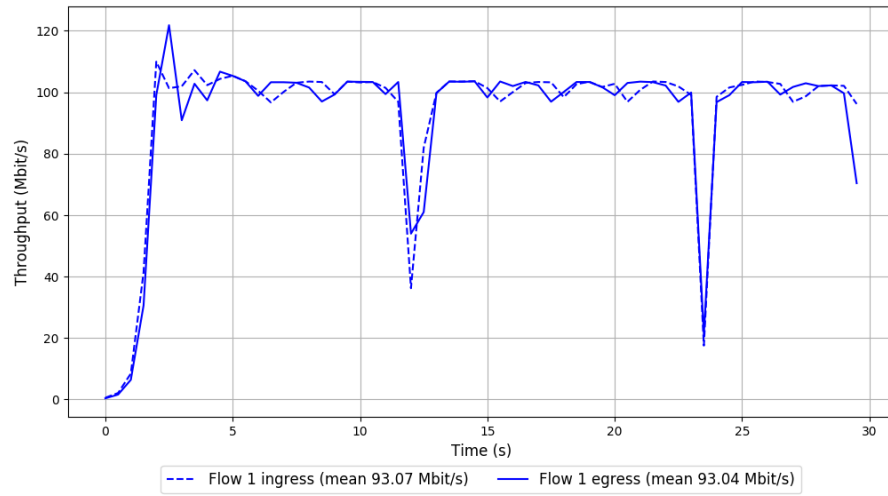
-- Flow 1:

Average throughput: 93.04 Mbit/s

95th percentile per-packet one-way delay: 96.675 ms

Loss rate: 0.78%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

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

End at: 2018-02-15 23:18:46

Below is generated by plot.py at 2018-02-16 03:24:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.68 Mbit/s

95th percentile per-packet one-way delay: 101.228 ms

Loss rate: 0.89%

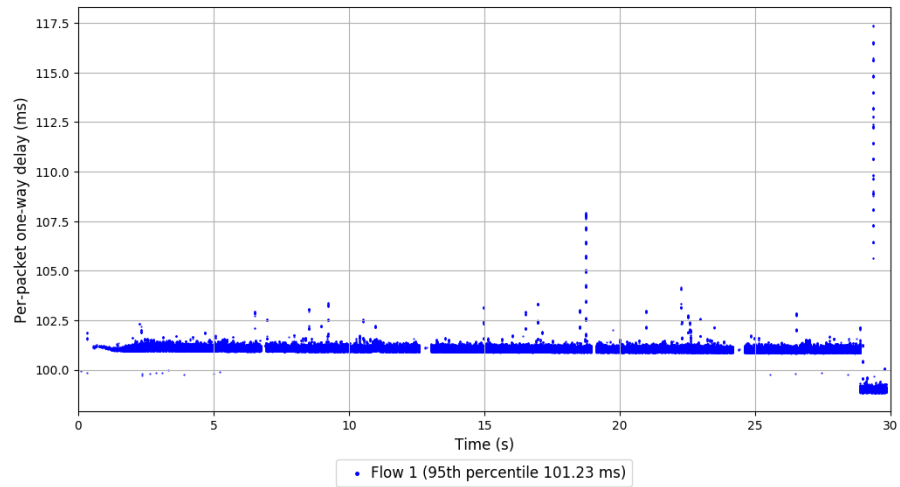
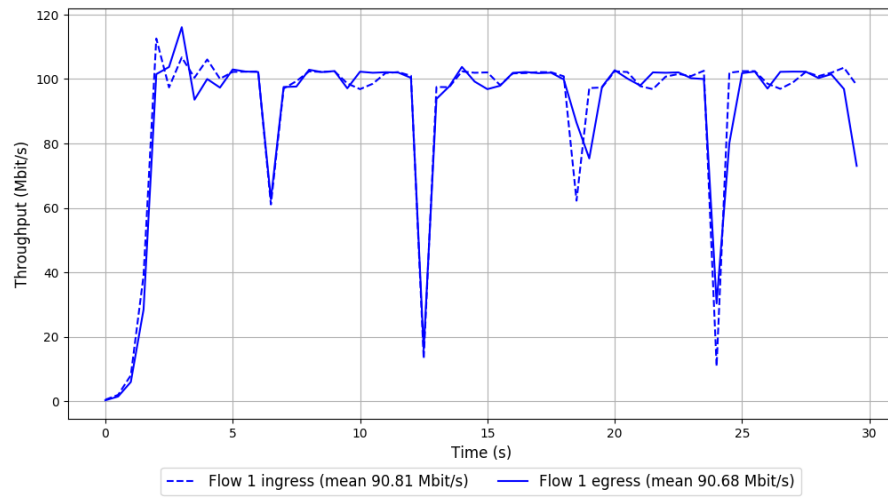
-- Flow 1:

Average throughput: 90.68 Mbit/s

95th percentile per-packet one-way delay: 101.228 ms

Loss rate: 0.89%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-15 23:33:59

End at: 2018-02-15 23:34:29

Below is generated by plot.py at 2018-02-16 03:24:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.69 Mbit/s

95th percentile per-packet one-way delay: 104.723 ms

Loss rate: 0.79%

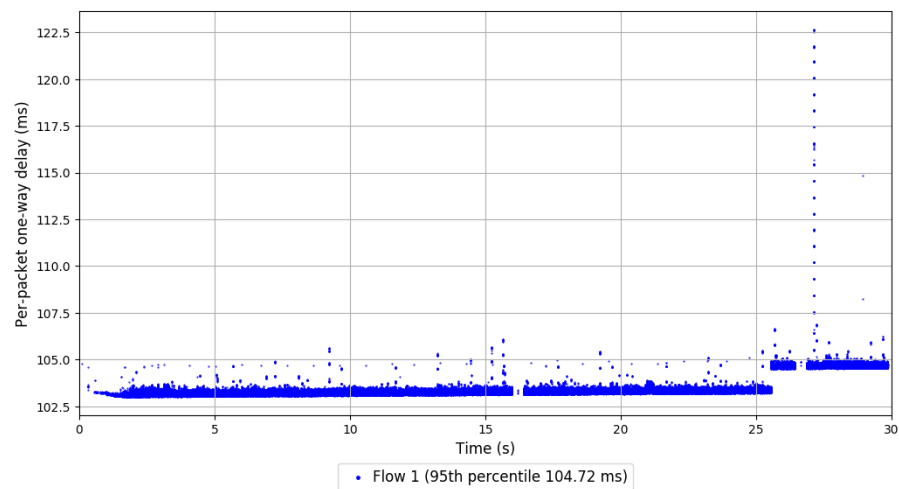
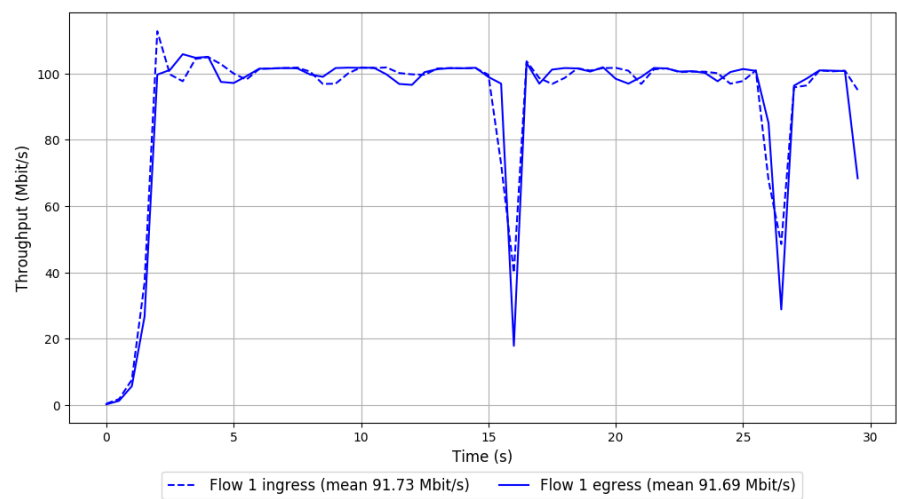
-- Flow 1:

Average throughput: 91.69 Mbit/s

95th percentile per-packet one-way delay: 104.723 ms

Loss rate: 0.79%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-15 23:49:34

End at: 2018-02-15 23:50:04

Below is generated by plot.py at 2018-02-16 03:24:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.35 Mbit/s

95th percentile per-packet one-way delay: 105.610 ms

Loss rate: 0.83%

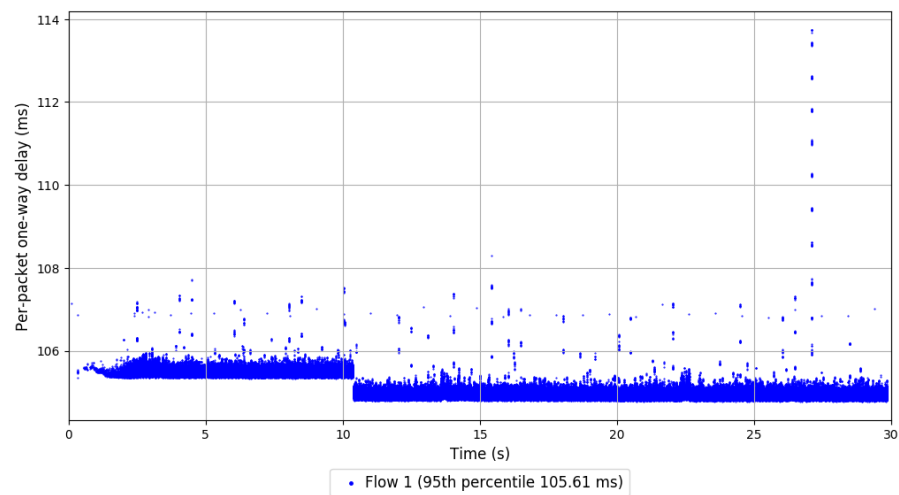
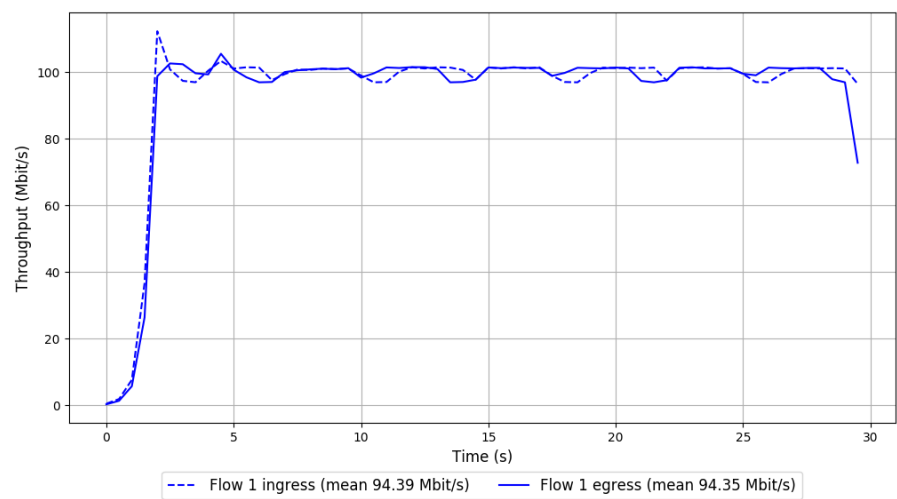
-- Flow 1:

Average throughput: 94.35 Mbit/s

95th percentile per-packet one-way delay: 105.610 ms

Loss rate: 0.83%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-16 00:05:09

End at: 2018-02-16 00:05:39

Below is generated by plot.py at 2018-02-16 03:24:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.48 Mbit/s

95th percentile per-packet one-way delay: 106.220 ms

Loss rate: 0.85%

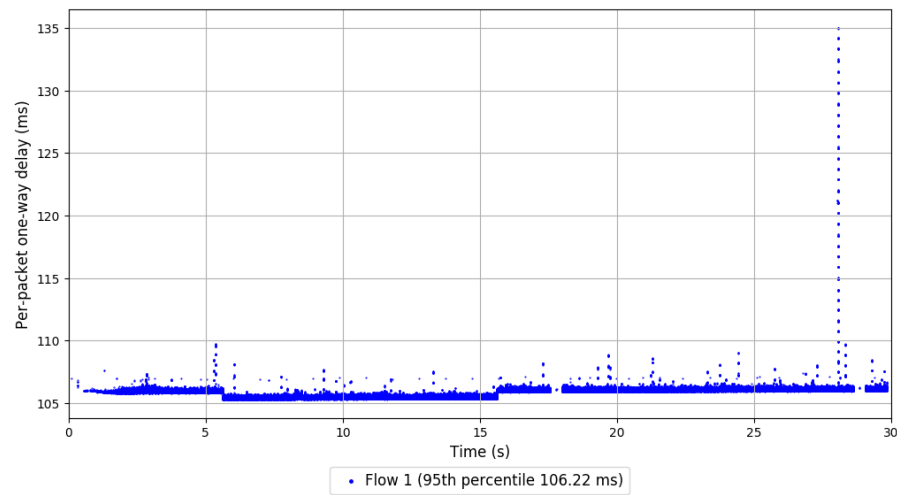
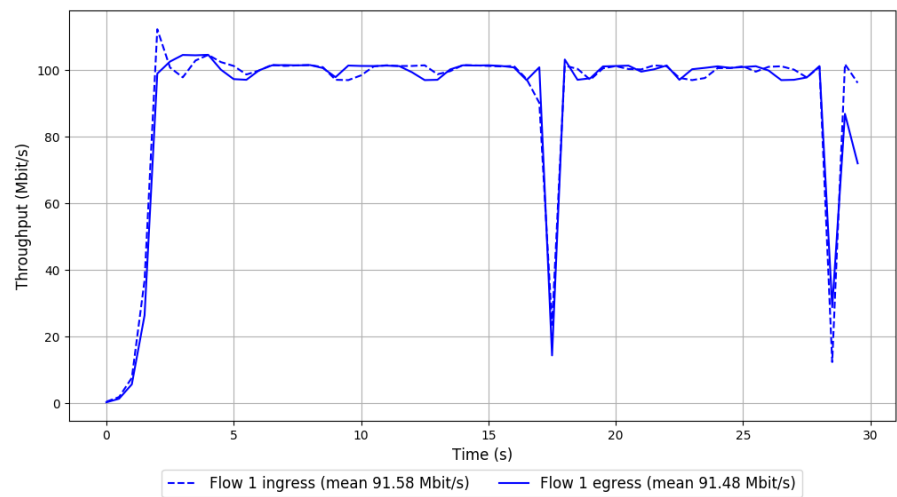
-- Flow 1:

Average throughput: 91.48 Mbit/s

95th percentile per-packet one-way delay: 106.220 ms

Loss rate: 0.85%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-16 00:20:59

End at: 2018-02-16 00:21:29

Below is generated by plot.py at 2018-02-16 03:25:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.36 Mbit/s

95th percentile per-packet one-way delay: 108.653 ms

Loss rate: 0.77%

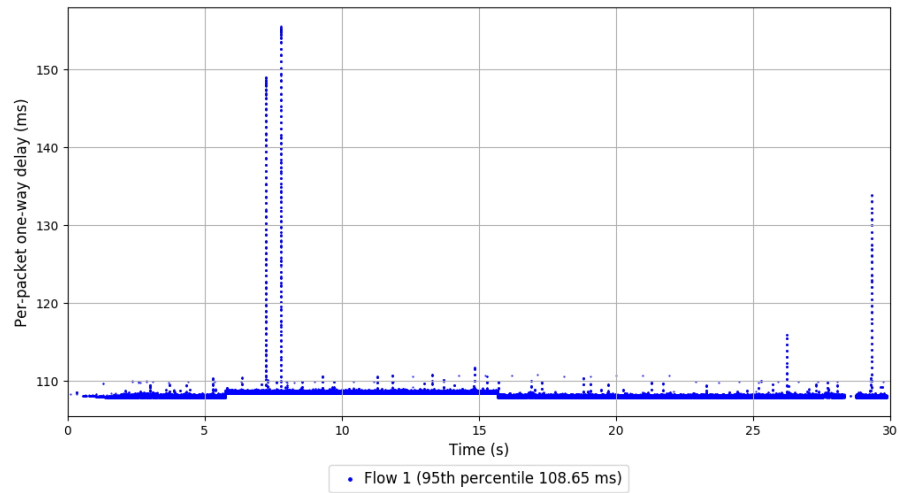
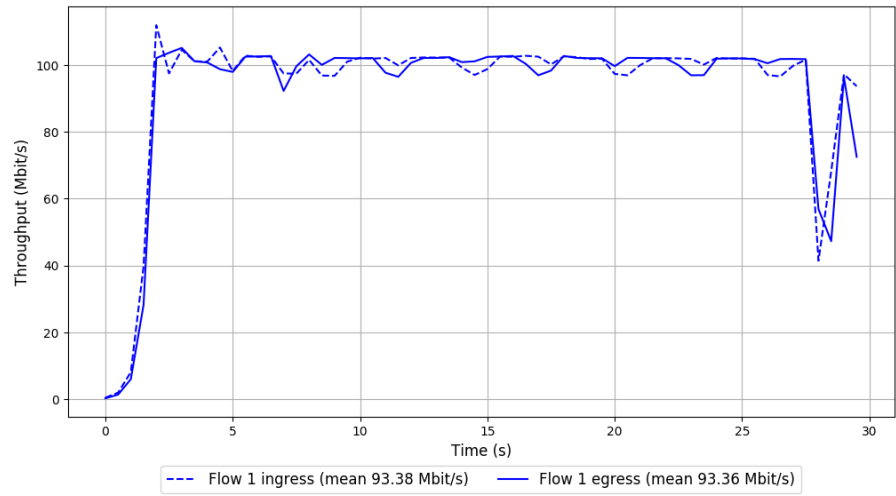
-- Flow 1:

Average throughput: 93.36 Mbit/s

95th percentile per-packet one-way delay: 108.653 ms

Loss rate: 0.77%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-16 00:36:30

End at: 2018-02-16 00:37:00

Below is generated by plot.py at 2018-02-16 03:25:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.90 Mbit/s

95th percentile per-packet one-way delay: 108.201 ms

Loss rate: 0.78%

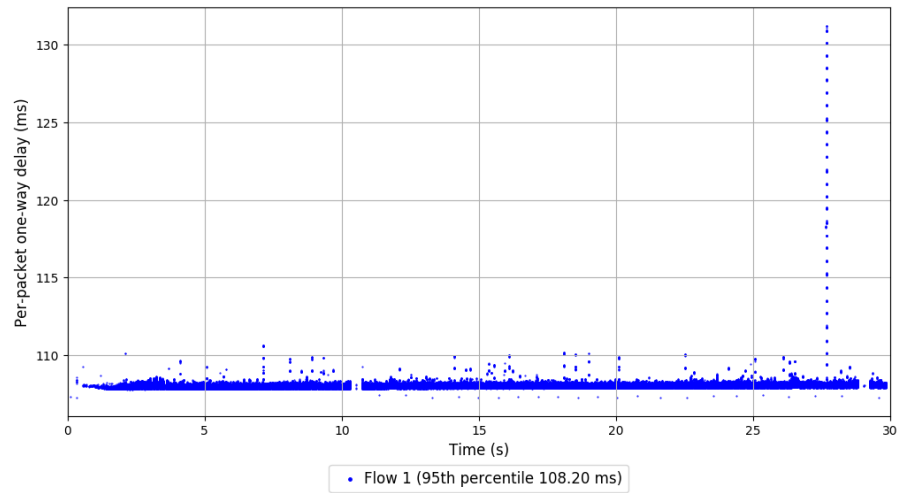
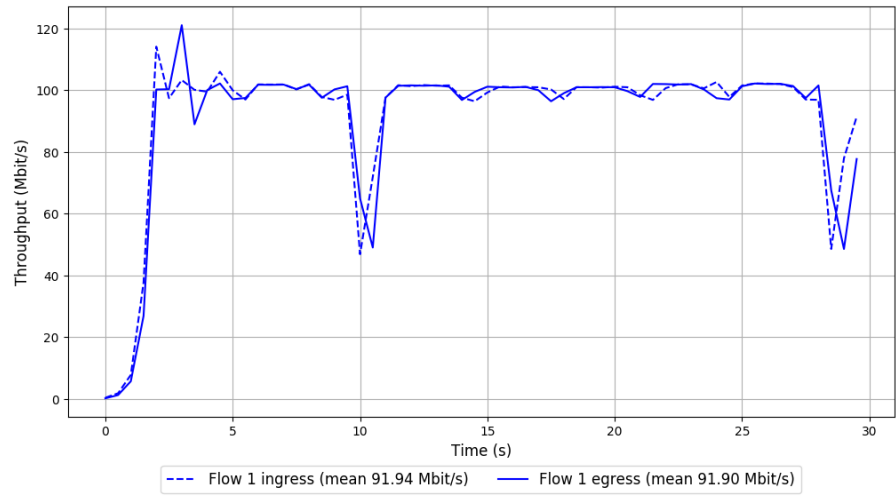
-- Flow 1:

Average throughput: 91.90 Mbit/s

95th percentile per-packet one-way delay: 108.201 ms

Loss rate: 0.78%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-15 22:01:43

End at: 2018-02-15 22:02:13

Below is generated by plot.py at 2018-02-16 03:25:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.34 Mbit/s

95th percentile per-packet one-way delay: 102.420 ms

Loss rate: 0.90%

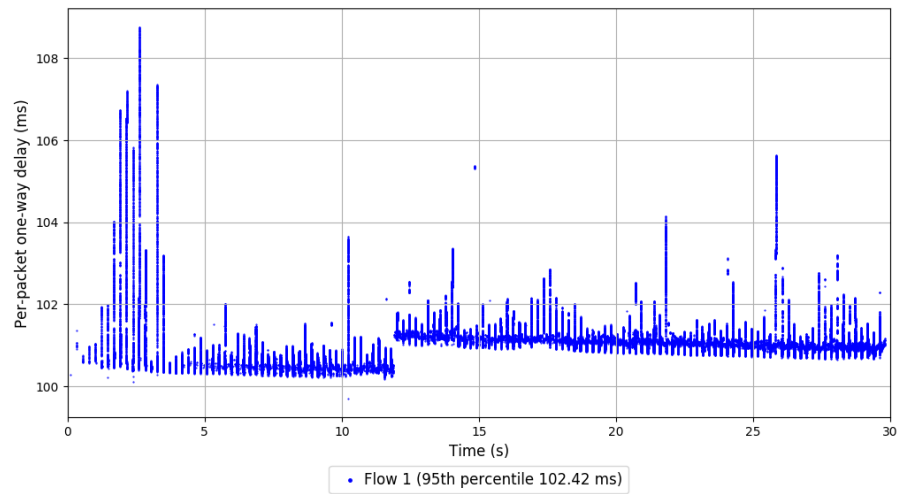
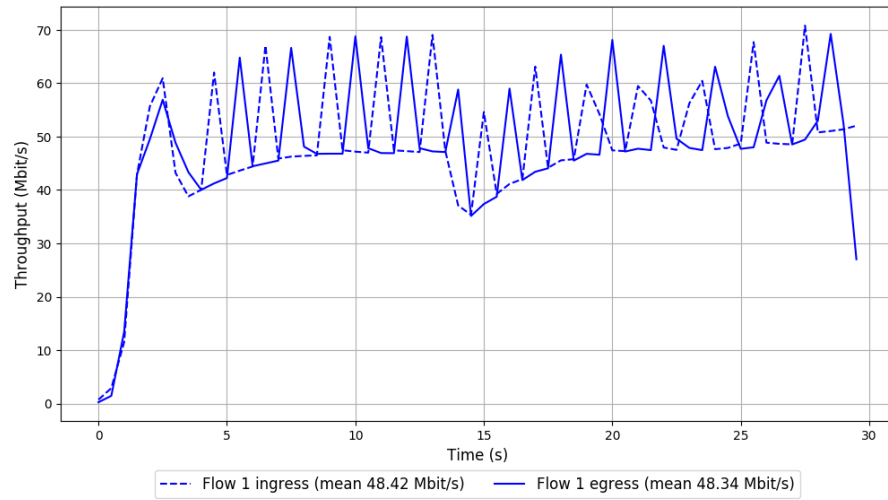
-- Flow 1:

Average throughput: 48.34 Mbit/s

95th percentile per-packet one-way delay: 102.420 ms

Loss rate: 0.90%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-15 22:18:42

End at: 2018-02-15 22:19:12

Below is generated by plot.py at 2018-02-16 03:25:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.31 Mbit/s

95th percentile per-packet one-way delay: 95.416 ms

Loss rate: 1.09%

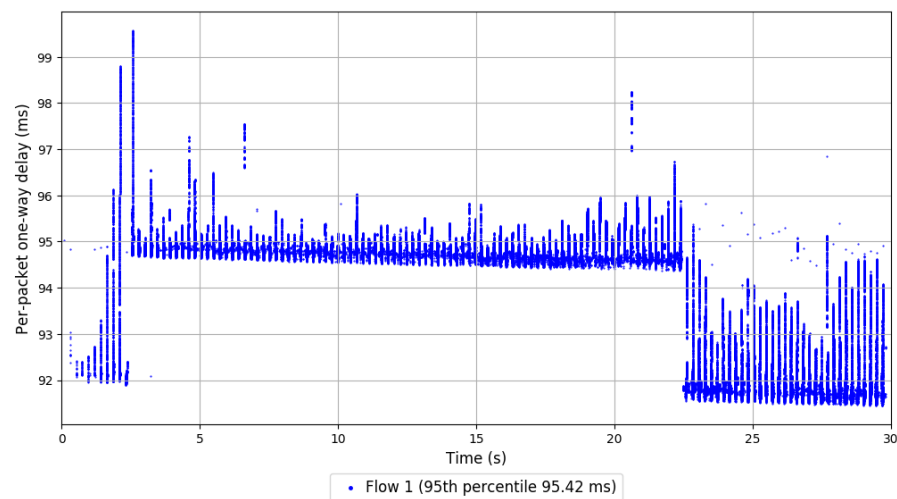
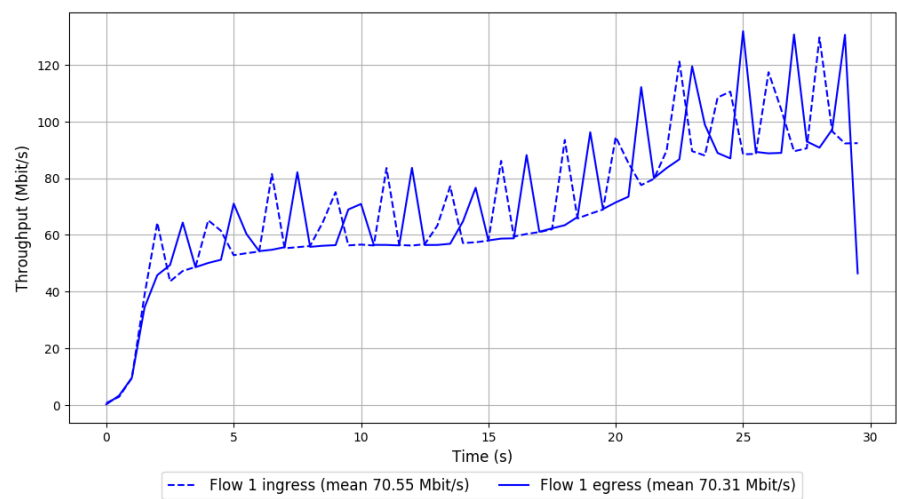
-- Flow 1:

Average throughput: 70.31 Mbit/s

95th percentile per-packet one-way delay: 95.416 ms

Loss rate: 1.09%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-15 22:35:27

End at: 2018-02-15 22:35:57

Below is generated by plot.py at 2018-02-16 03:25:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.17 Mbit/s

95th percentile per-packet one-way delay: 100.055 ms

Loss rate: 1.05%

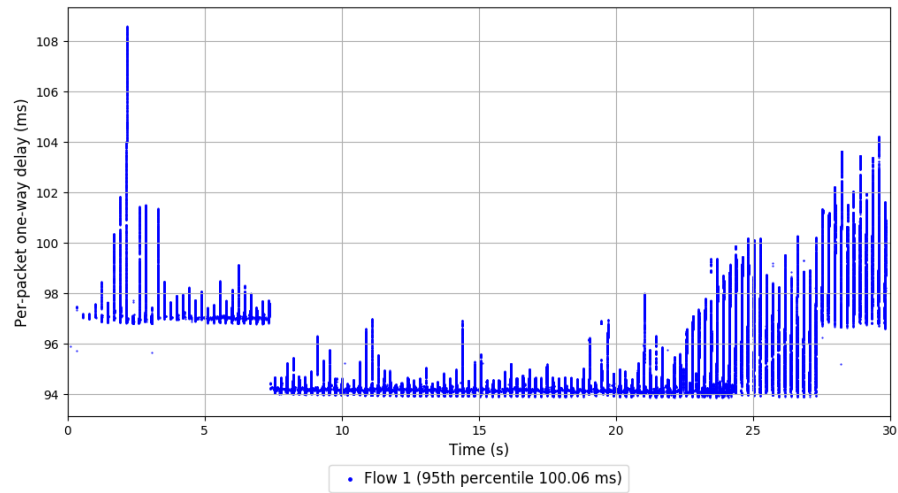
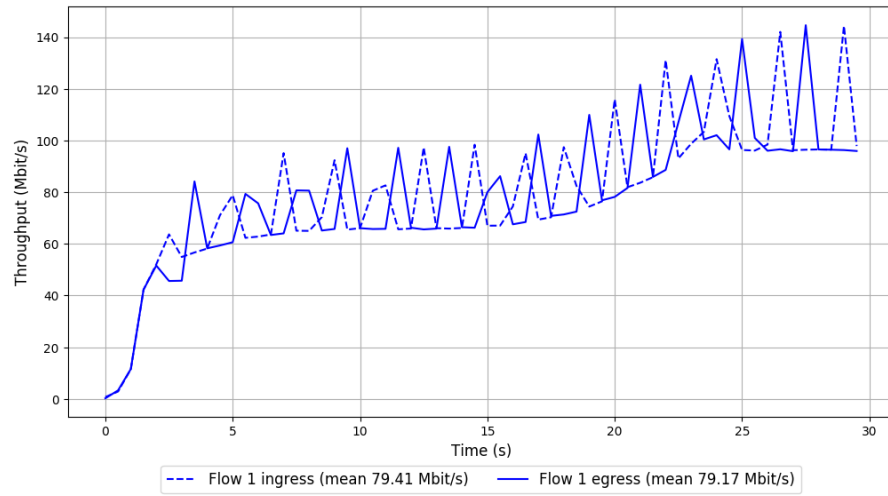
-- Flow 1:

Average throughput: 79.17 Mbit/s

95th percentile per-packet one-way delay: 100.055 ms

Loss rate: 1.05%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-15 22:50:51

End at: 2018-02-15 22:51:21

Below is generated by plot.py at 2018-02-16 03:25:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.31 Mbit/s

95th percentile per-packet one-way delay: 89.543 ms

Loss rate: 0.59%

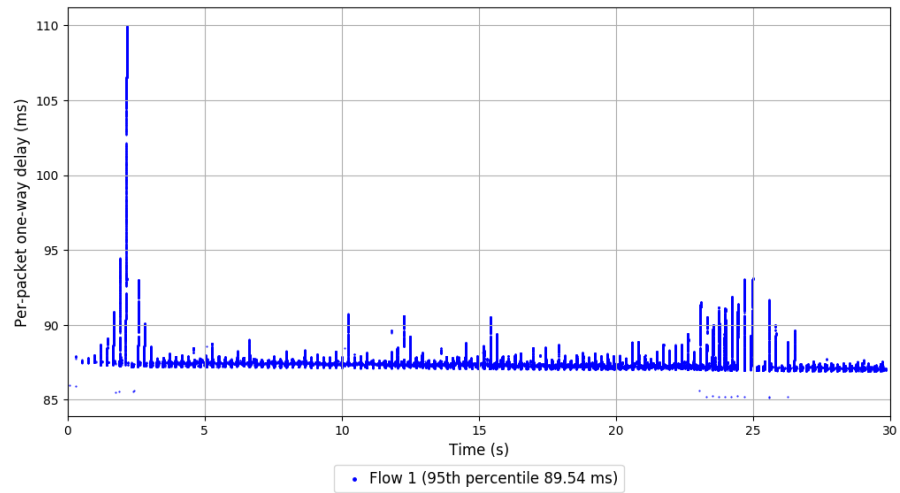
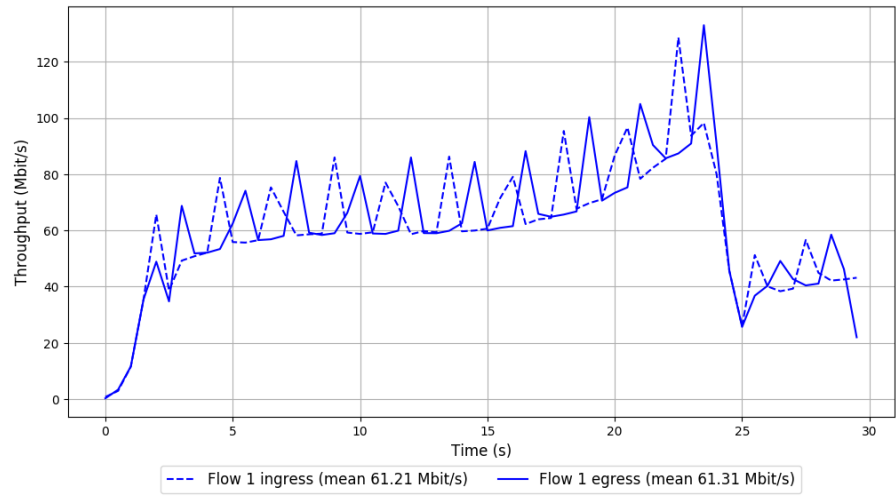
-- Flow 1:

Average throughput: 61.31 Mbit/s

95th percentile per-packet one-way delay: 89.543 ms

Loss rate: 0.59%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-15 23:06:07

End at: 2018-02-15 23:06:37

Below is generated by plot.py at 2018-02-16 03:25:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.02 Mbit/s

95th percentile per-packet one-way delay: 106.810 ms

Loss rate: 0.73%

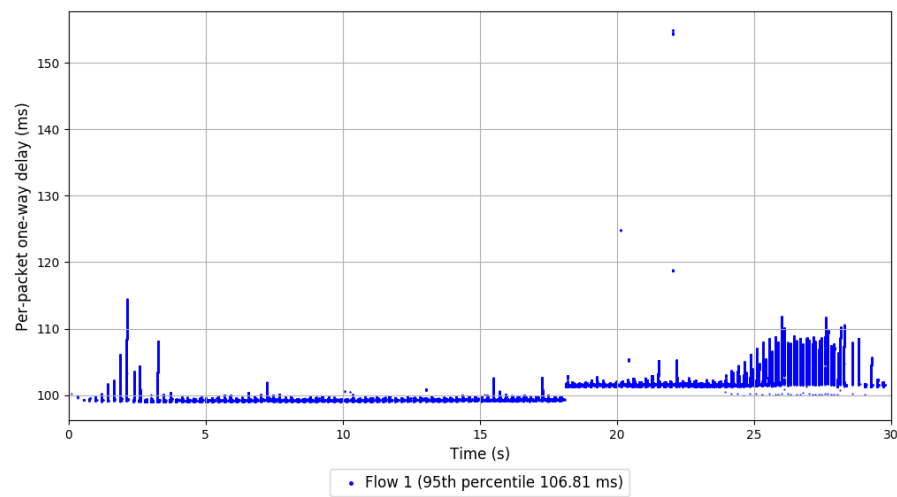
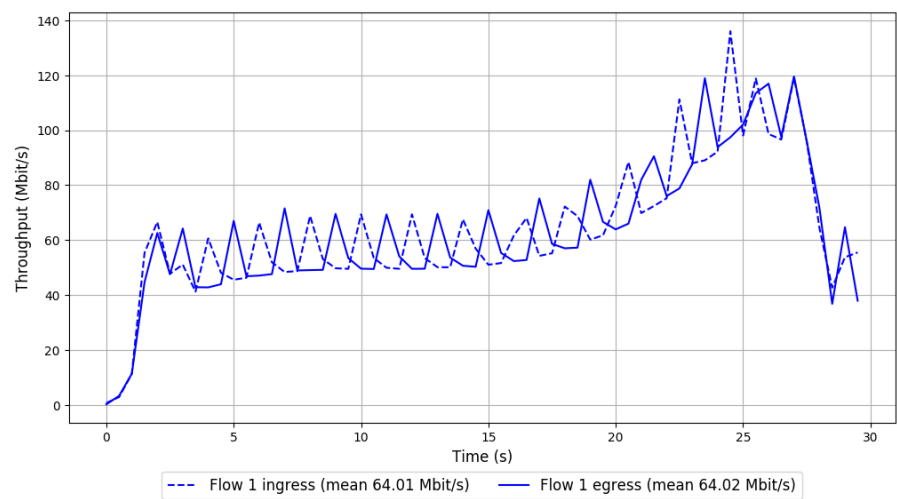
-- Flow 1:

Average throughput: 64.02 Mbit/s

95th percentile per-packet one-way delay: 106.810 ms

Loss rate: 0.73%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-15 23:21:44

End at: 2018-02-15 23:22:14

Below is generated by plot.py at 2018-02-16 03:25:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.23 Mbit/s

95th percentile per-packet one-way delay: 101.081 ms

Loss rate: 1.10%

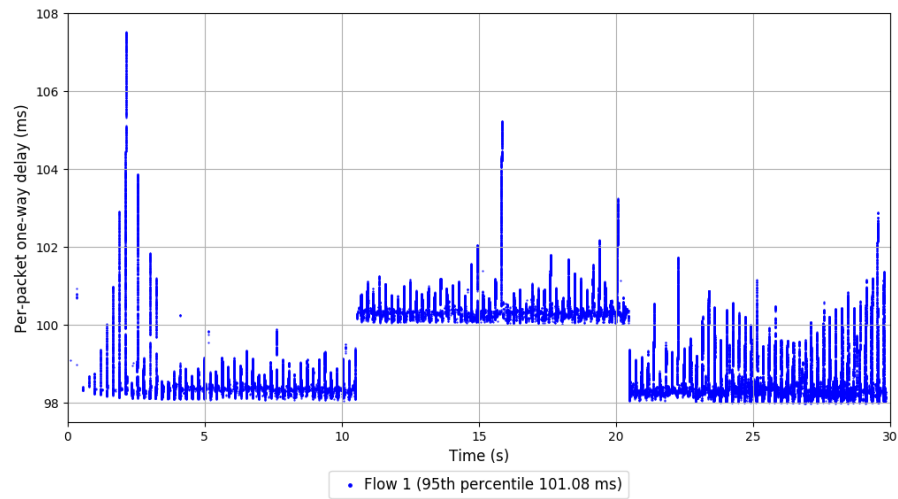
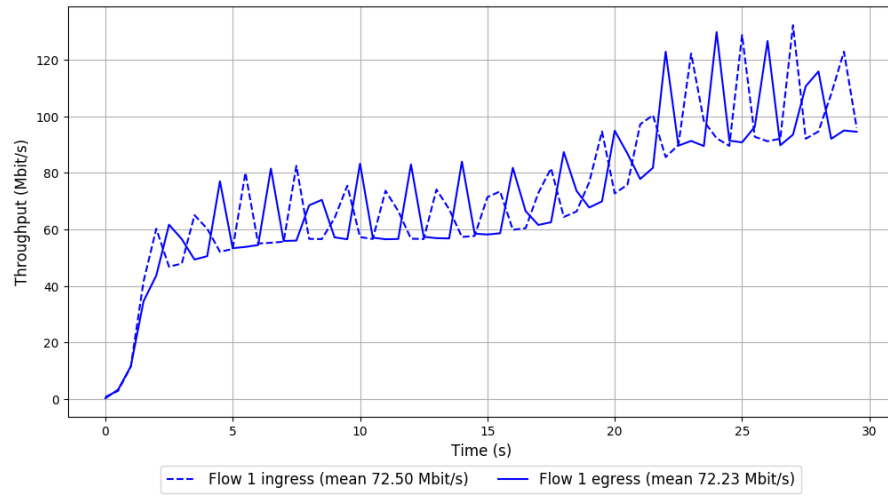
-- Flow 1:

Average throughput: 72.23 Mbit/s

95th percentile per-packet one-way delay: 101.081 ms

Loss rate: 1.10%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-15 23:37:23

End at: 2018-02-15 23:37:53

Below is generated by plot.py at 2018-02-16 03:25:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.14 Mbit/s

95th percentile per-packet one-way delay: 106.702 ms

Loss rate: 1.29%

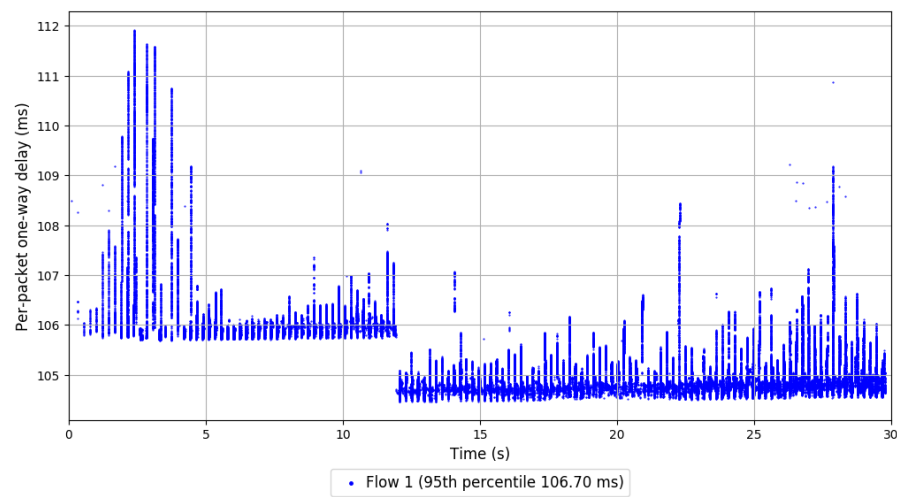
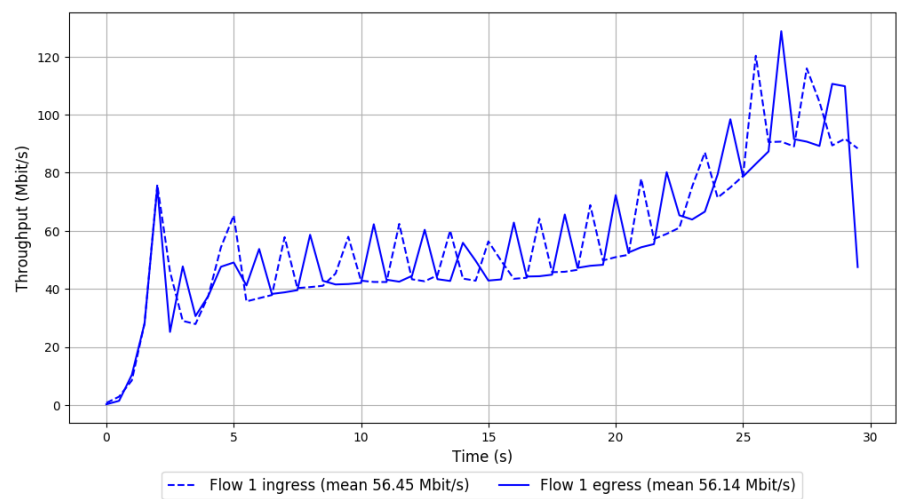
-- Flow 1:

Average throughput: 56.14 Mbit/s

95th percentile per-packet one-way delay: 106.702 ms

Loss rate: 1.29%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-15 23:53:02

End at: 2018-02-15 23:53:33

Below is generated by plot.py at 2018-02-16 03:26:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.13 Mbit/s

95th percentile per-packet one-way delay: 107.101 ms

Loss rate: 1.00%

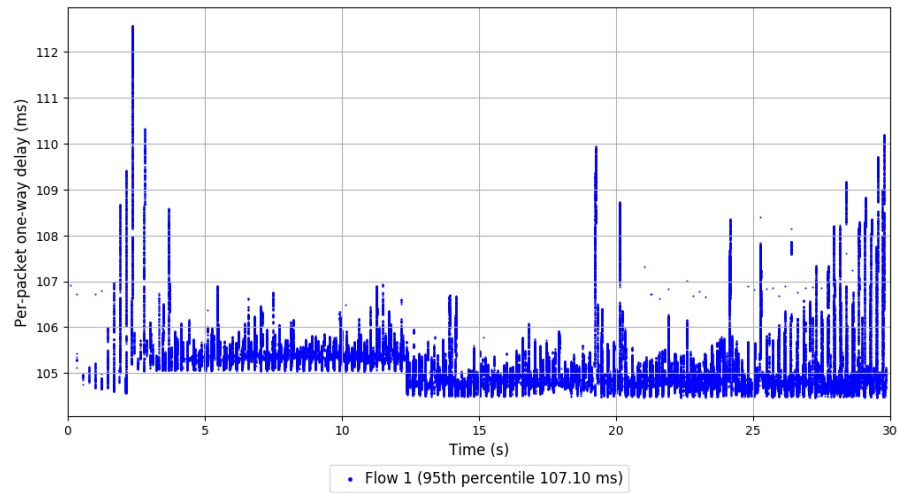
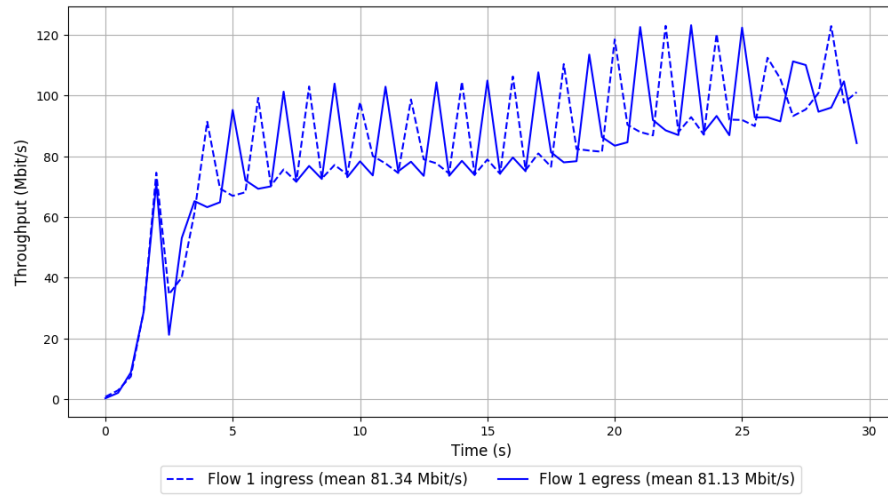
-- Flow 1:

Average throughput: 81.13 Mbit/s

95th percentile per-packet one-way delay: 107.101 ms

Loss rate: 1.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-16 00:08:47

End at: 2018-02-16 00:09:17

Below is generated by plot.py at 2018-02-16 03:26:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.36 Mbit/s

95th percentile per-packet one-way delay: 113.244 ms

Loss rate: 1.11%

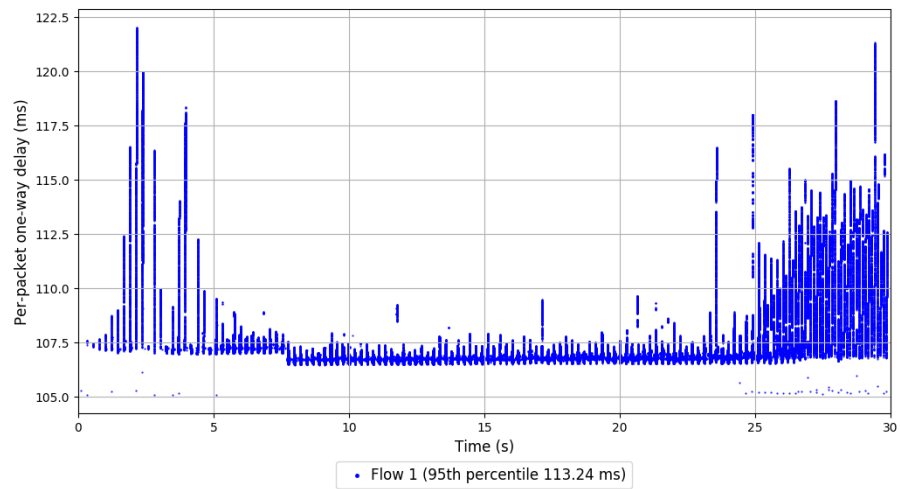
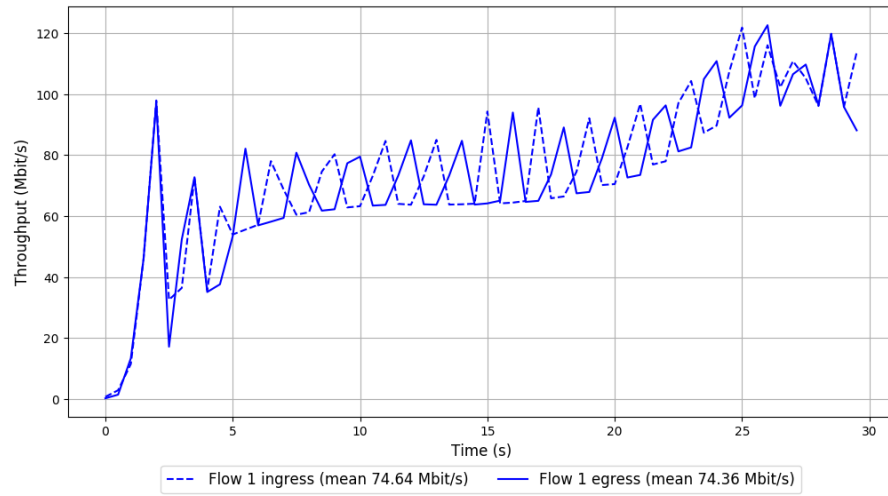
-- Flow 1:

Average throughput: 74.36 Mbit/s

95th percentile per-packet one-way delay: 113.244 ms

Loss rate: 1.11%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-16 00:24:23

End at: 2018-02-16 00:24:53

Below is generated by plot.py at 2018-02-16 03:26:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.43 Mbit/s

95th percentile per-packet one-way delay: 110.925 ms

Loss rate: 0.96%

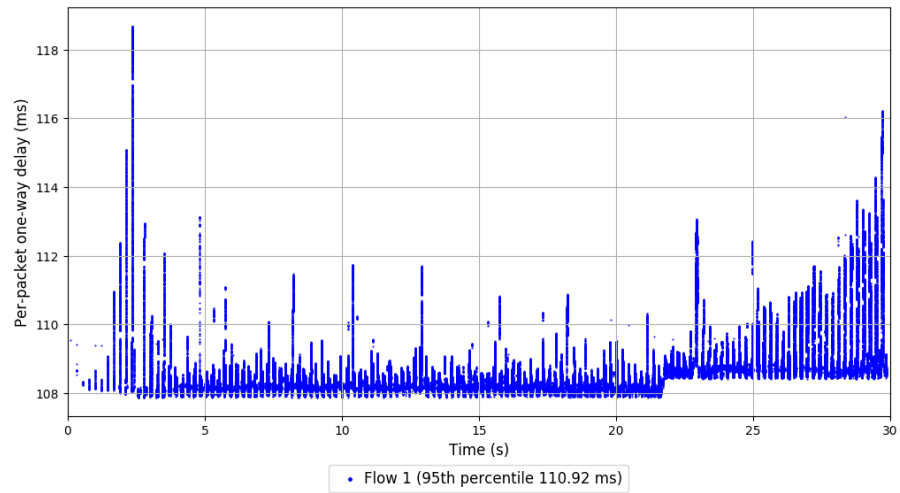
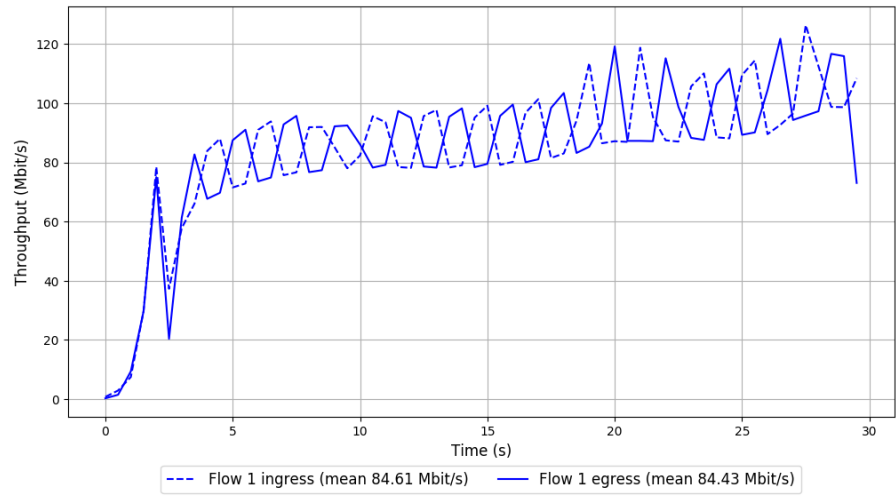
-- Flow 1:

Average throughput: 84.43 Mbit/s

95th percentile per-packet one-way delay: 110.925 ms

Loss rate: 0.96%

Run 10: Report of TCP Cubic — Data Link

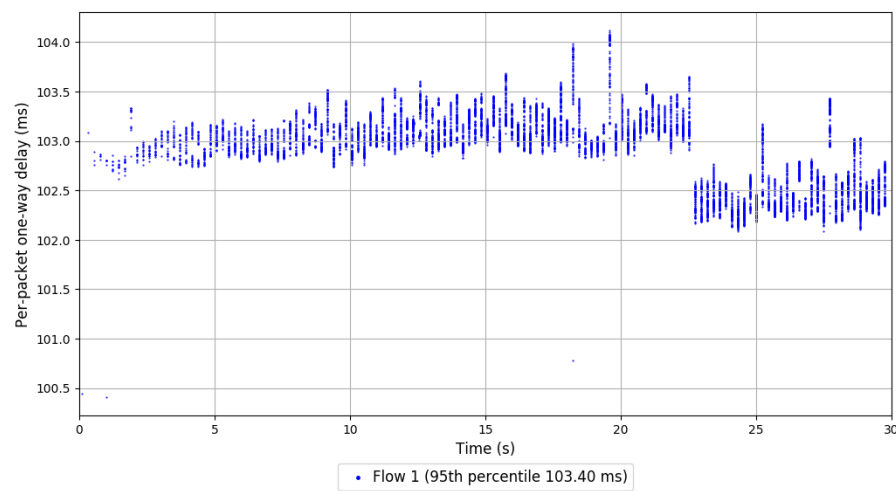
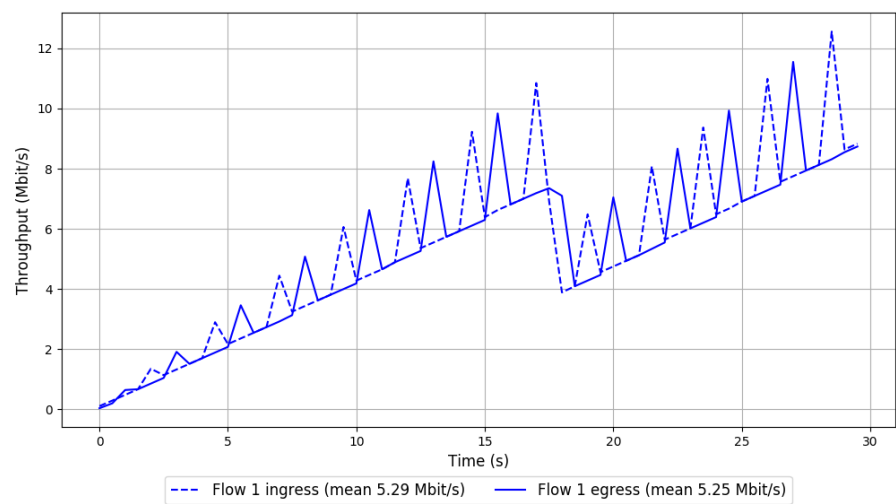


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-15 22:03:42
End at: 2018-02-15 22:04:12

# Below is generated by plot.py at 2018-02-16 03:26:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.25 Mbit/s
95th percentile per-packet one-way delay: 103.401 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 5.25 Mbit/s
95th percentile per-packet one-way delay: 103.401 ms
Loss rate: 1.41%
```

Run 1: Report of LEDBAT — Data Link

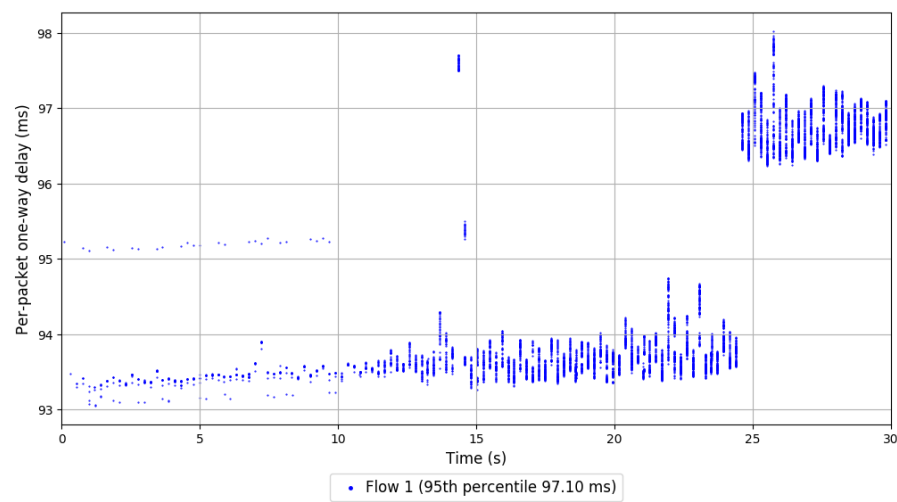
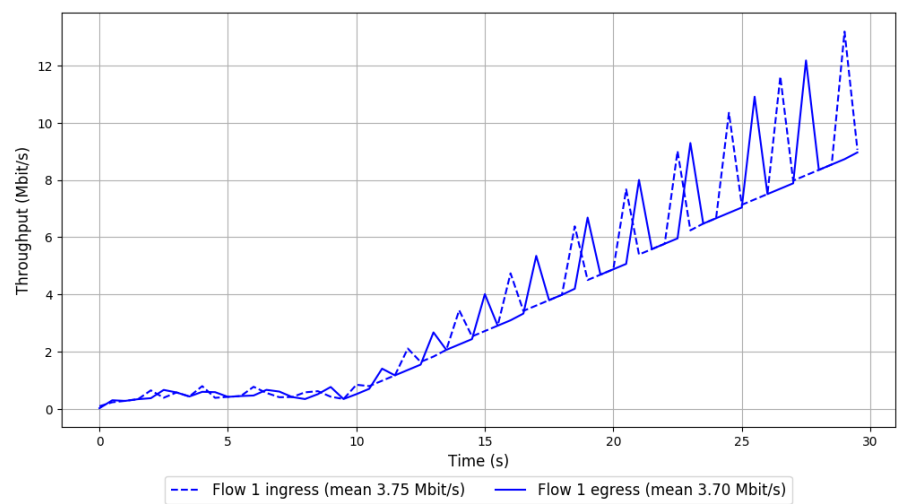


```
Run 2: Statistics of LEDBAT

Start at: 2018-02-15 22:20:40
End at: 2018-02-15 22:21:10

# Below is generated by plot.py at 2018-02-16 03:26:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.70 Mbit/s
95th percentile per-packet one-way delay: 97.101 ms
Loss rate: 2.03%
-- Flow 1:
Average throughput: 3.70 Mbit/s
95th percentile per-packet one-way delay: 97.101 ms
Loss rate: 2.03%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-15 22:37:22

End at: 2018-02-15 22:37:52

Below is generated by plot.py at 2018-02-16 03:26:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.04 Mbit/s

95th percentile per-packet one-way delay: 96.276 ms

Loss rate: 1.49%

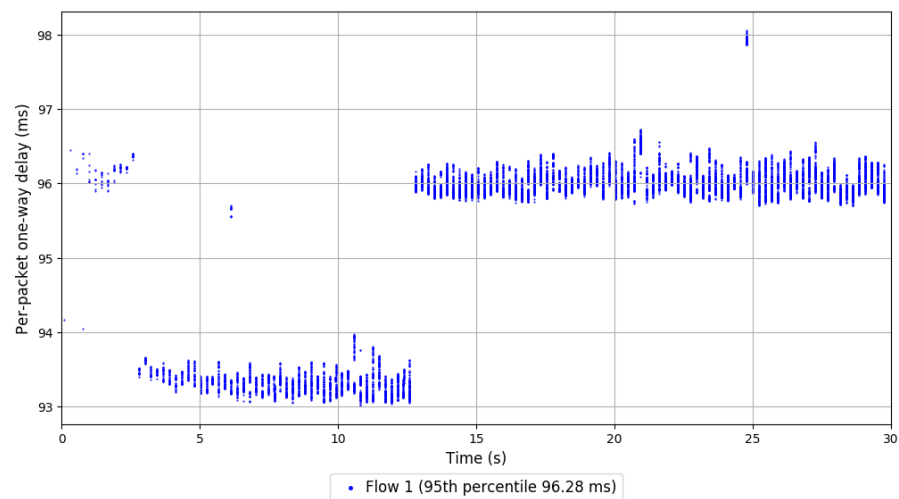
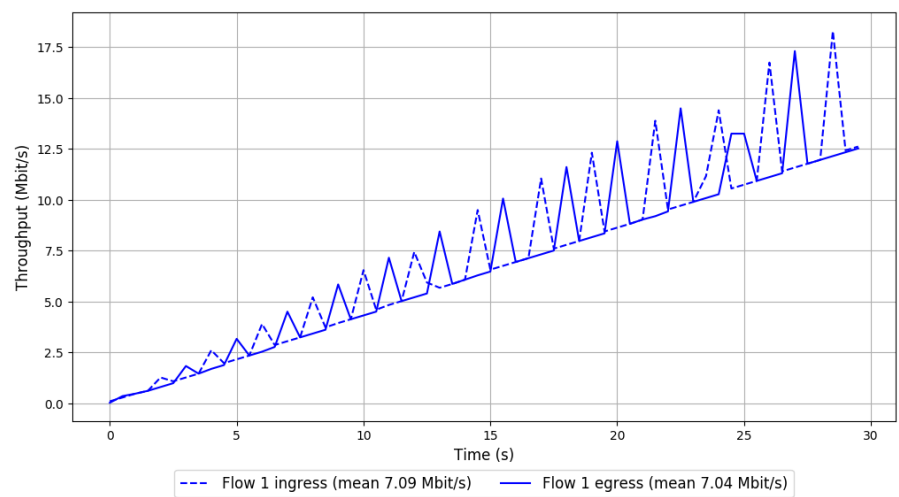
-- Flow 1:

Average throughput: 7.04 Mbit/s

95th percentile per-packet one-way delay: 96.276 ms

Loss rate: 1.49%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-15 22:52:34

End at: 2018-02-15 22:53:04

Below is generated by plot.py at 2018-02-16 03:26:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.02 Mbit/s

95th percentile per-packet one-way delay: 86.778 ms

Loss rate: 1.49%

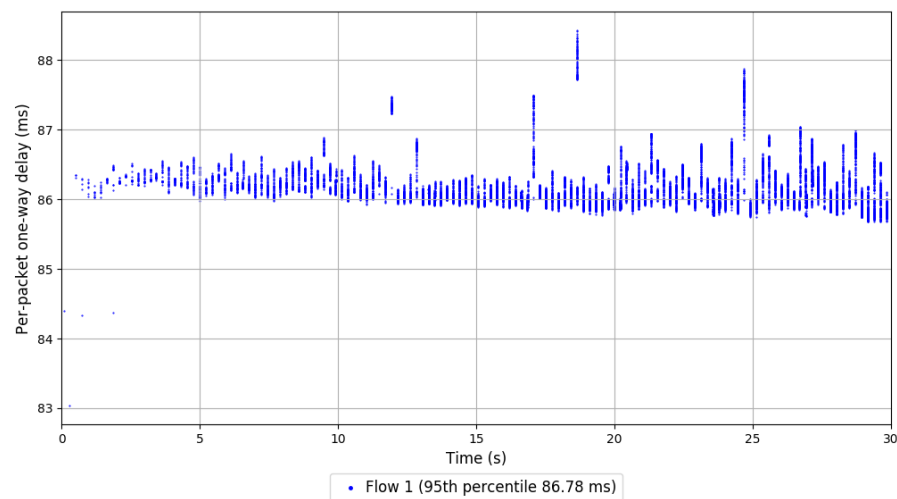
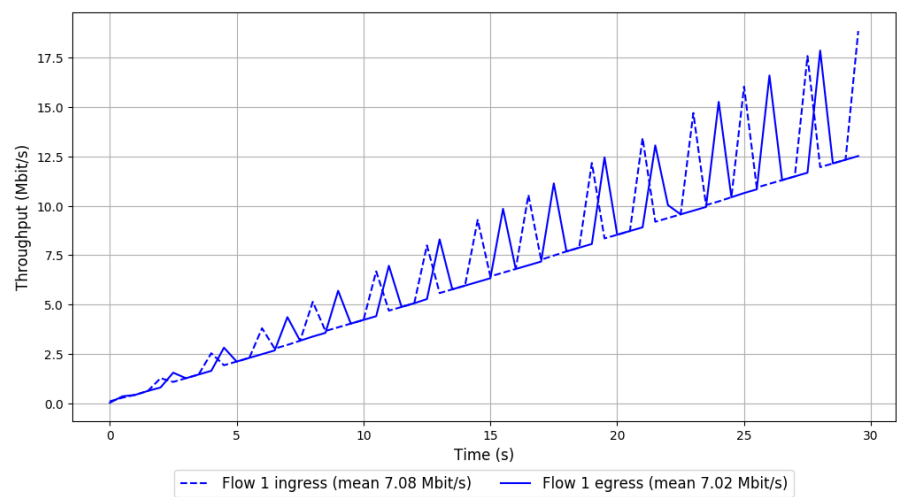
-- Flow 1:

Average throughput: 7.02 Mbit/s

95th percentile per-packet one-way delay: 86.778 ms

Loss rate: 1.49%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-15 23:07:59

End at: 2018-02-15 23:08:30

Below is generated by plot.py at 2018-02-16 03:26:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.72 Mbit/s

95th percentile per-packet one-way delay: 102.639 ms

Loss rate: 1.54%

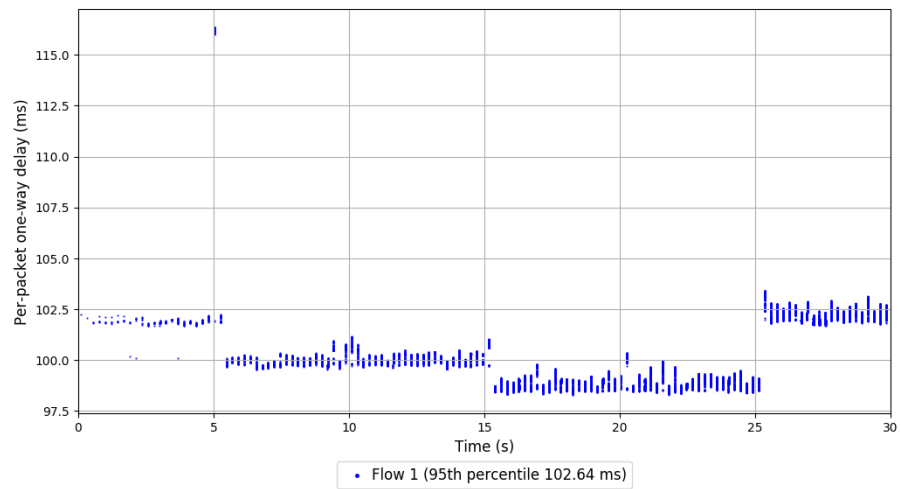
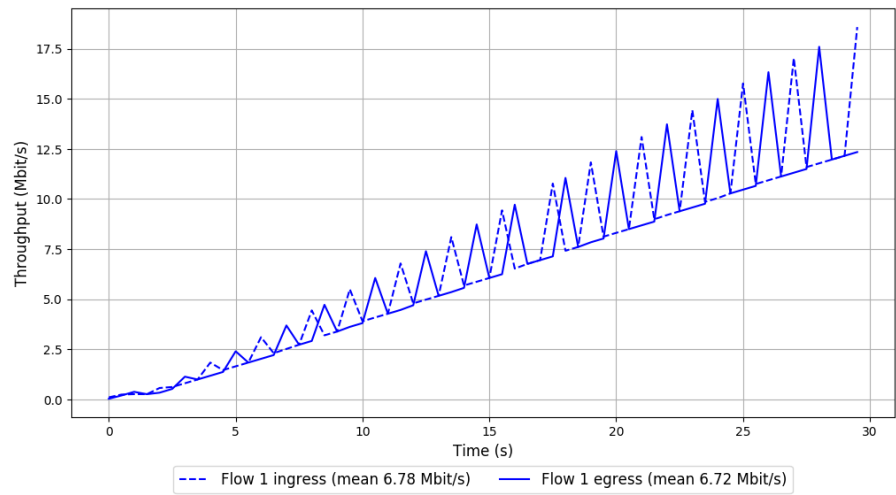
-- Flow 1:

Average throughput: 6.72 Mbit/s

95th percentile per-packet one-way delay: 102.639 ms

Loss rate: 1.54%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-15 23:23:38

End at: 2018-02-15 23:24:08

Below is generated by plot.py at 2018-02-16 03:26:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.01 Mbit/s

95th percentile per-packet one-way delay: 101.904 ms

Loss rate: 1.51%

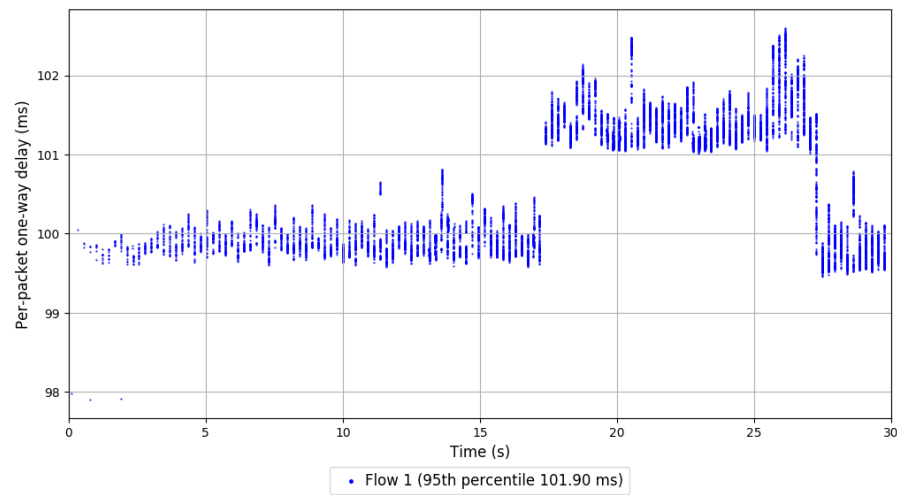
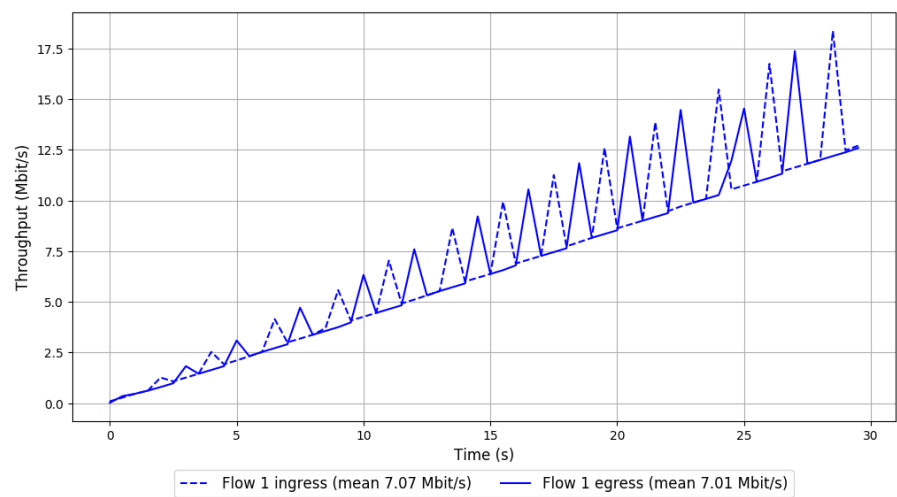
-- Flow 1:

Average throughput: 7.01 Mbit/s

95th percentile per-packet one-way delay: 101.904 ms

Loss rate: 1.51%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-15 23:39:15

End at: 2018-02-15 23:39:45

Below is generated by plot.py at 2018-02-16 03:26:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.14 Mbit/s

95th percentile per-packet one-way delay: 106.583 ms

Loss rate: 1.50%

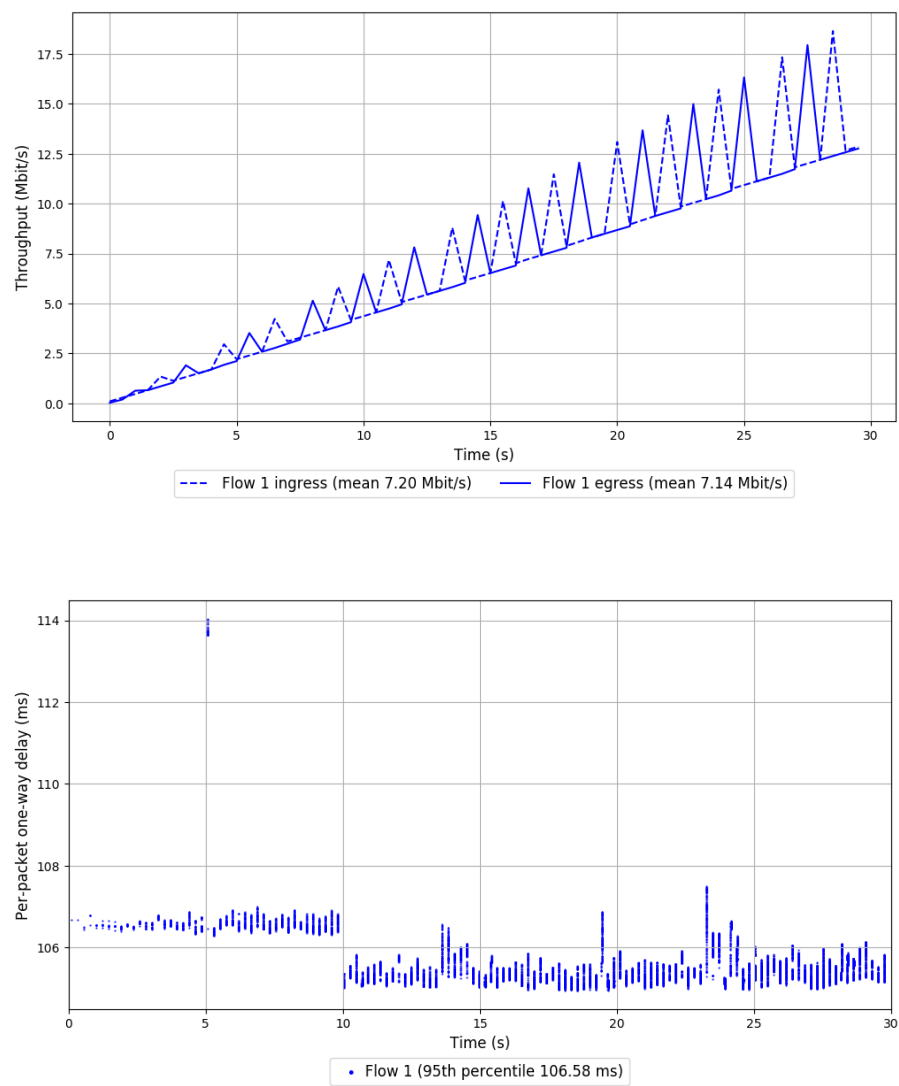
-- Flow 1:

Average throughput: 7.14 Mbit/s

95th percentile per-packet one-way delay: 106.583 ms

Loss rate: 1.50%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-15 23:54:50

End at: 2018-02-15 23:55:20

Below is generated by plot.py at 2018-02-16 03:26:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.00 Mbit/s

95th percentile per-packet one-way delay: 105.355 ms

Loss rate: 1.51%

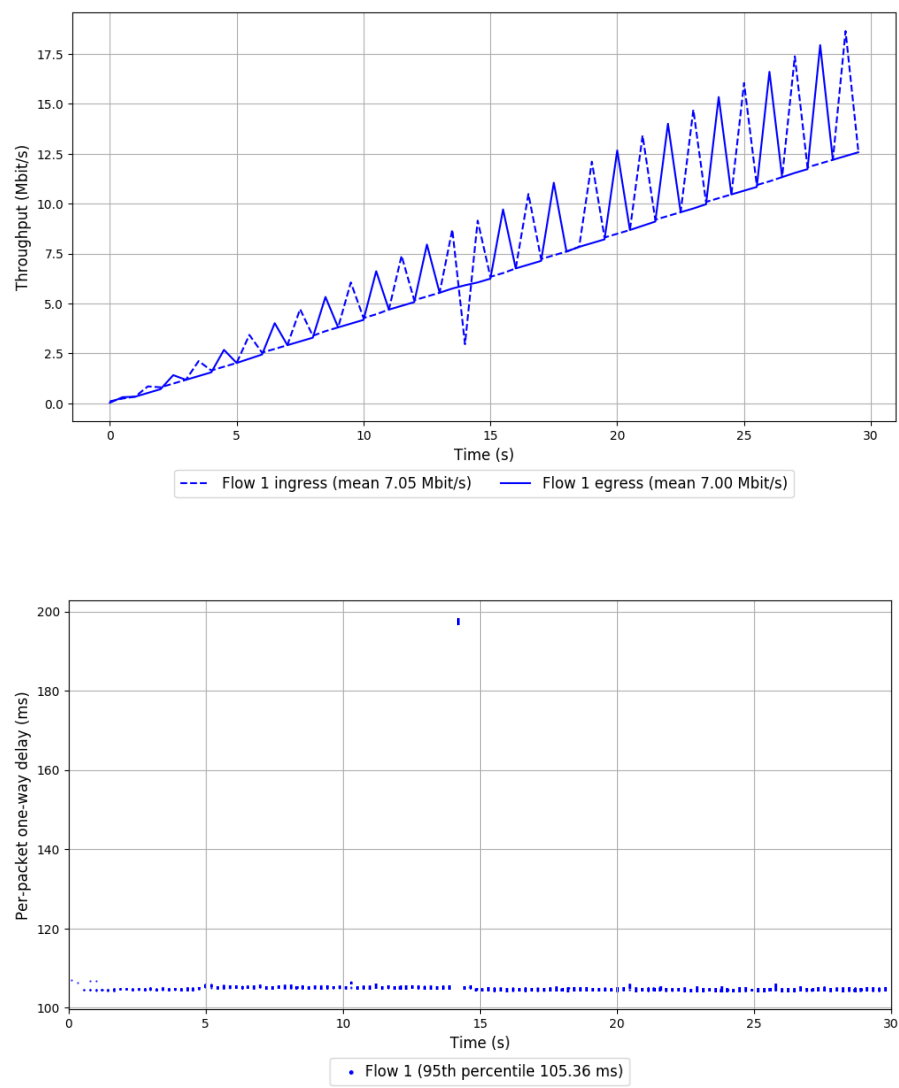
-- Flow 1:

Average throughput: 7.00 Mbit/s

95th percentile per-packet one-way delay: 105.355 ms

Loss rate: 1.51%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-16 00:10:39

End at: 2018-02-16 00:11:09

Below is generated by plot.py at 2018-02-16 03:26:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.38 Mbit/s

95th percentile per-packet one-way delay: 108.063 ms

Loss rate: 1.47%

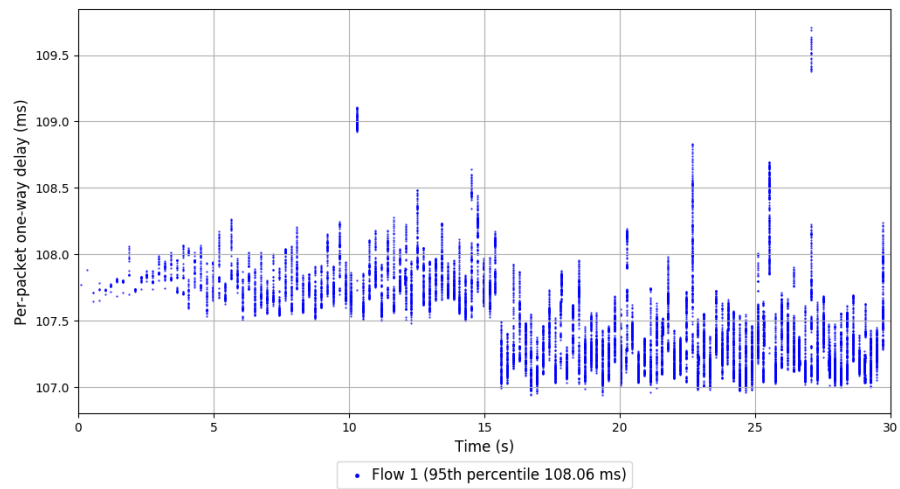
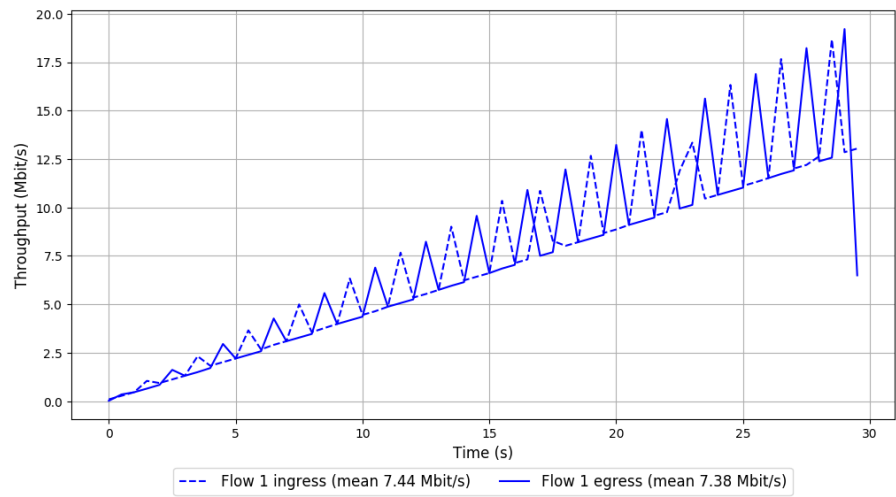
-- Flow 1:

Average throughput: 7.38 Mbit/s

95th percentile per-packet one-way delay: 108.063 ms

Loss rate: 1.47%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

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

End at: 2018-02-16 00:26:46

Below is generated by plot.py at 2018-02-16 03:26:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.53 Mbit/s

95th percentile per-packet one-way delay: 108.825 ms

Loss rate: 2.40%

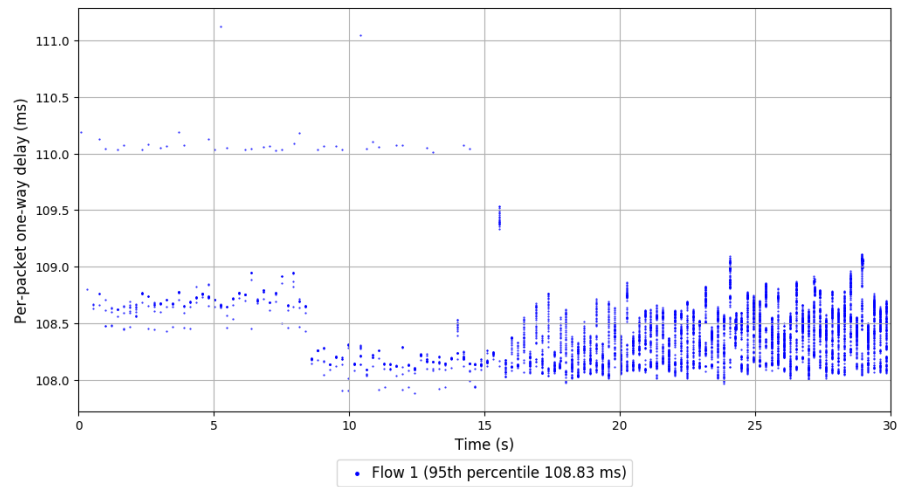
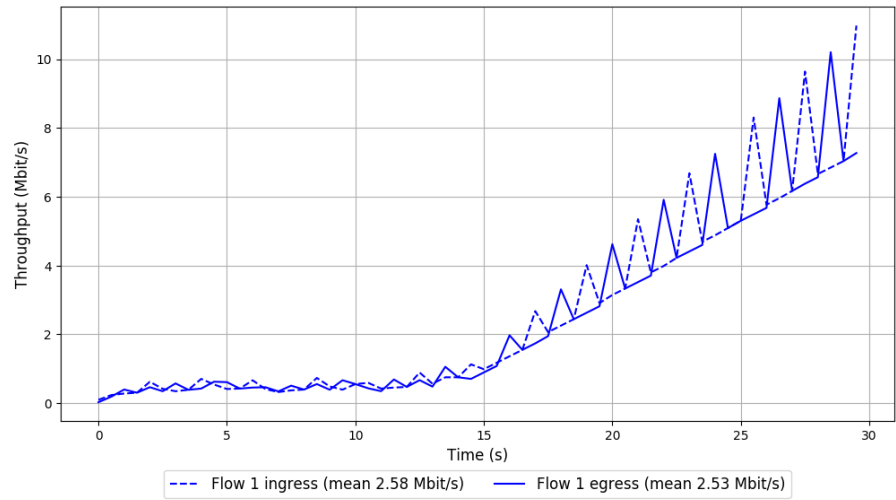
-- Flow 1:

Average throughput: 2.53 Mbit/s

95th percentile per-packet one-way delay: 108.825 ms

Loss rate: 2.40%

Run 10: Report of LEDBAT — Data Link

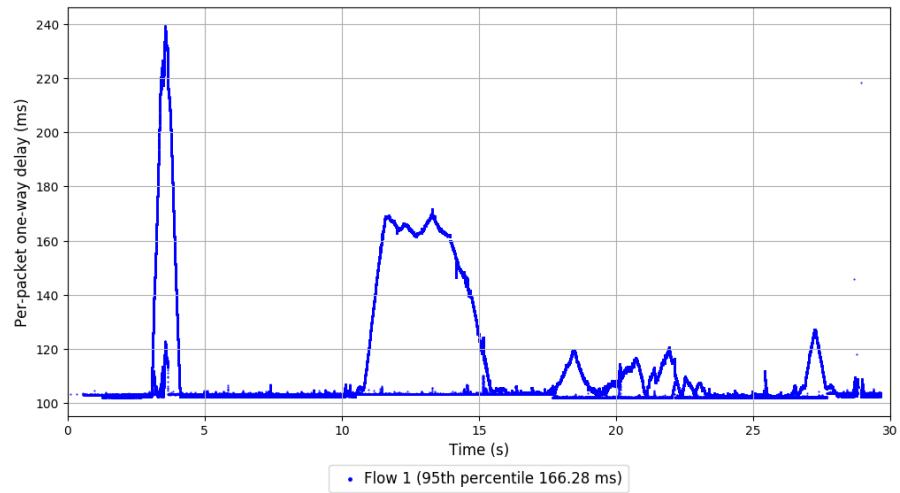
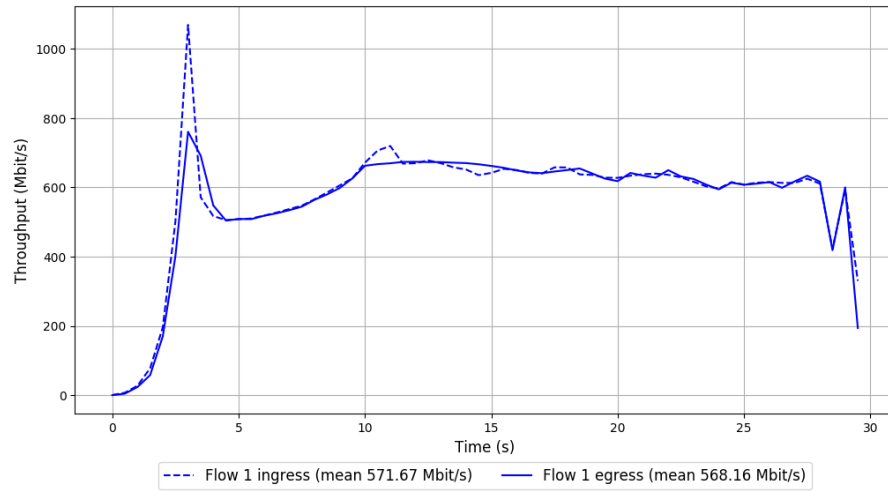


```
Run 1: Statistics of PCC

Start at: 2018-02-15 22:04:23
End at: 2018-02-15 22:04:53

# Below is generated by plot.py at 2018-02-16 03:34:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 568.16 Mbit/s
95th percentile per-packet one-way delay: 166.281 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 568.16 Mbit/s
95th percentile per-packet one-way delay: 166.281 ms
Loss rate: 1.36%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-15 22:21:22

End at: 2018-02-15 22:21:52

Below is generated by plot.py at 2018-02-16 03:34:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 557.16 Mbit/s

95th percentile per-packet one-way delay: 142.747 ms

Loss rate: 1.69%

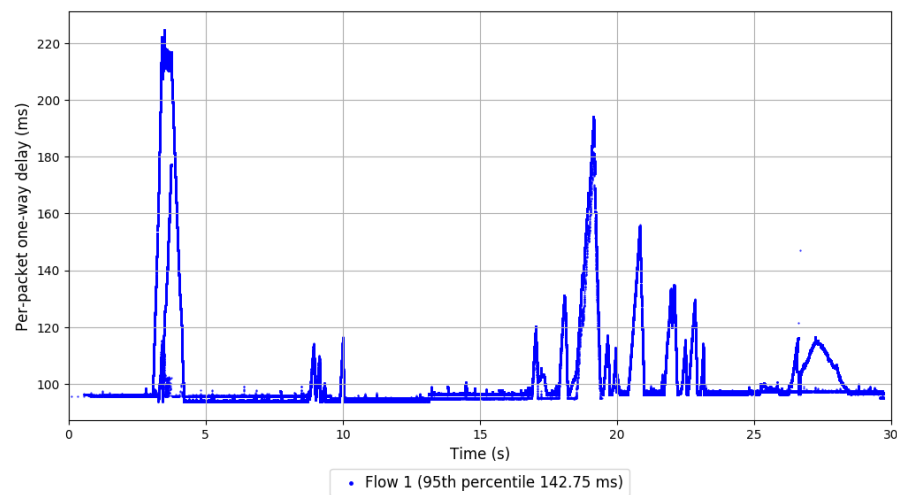
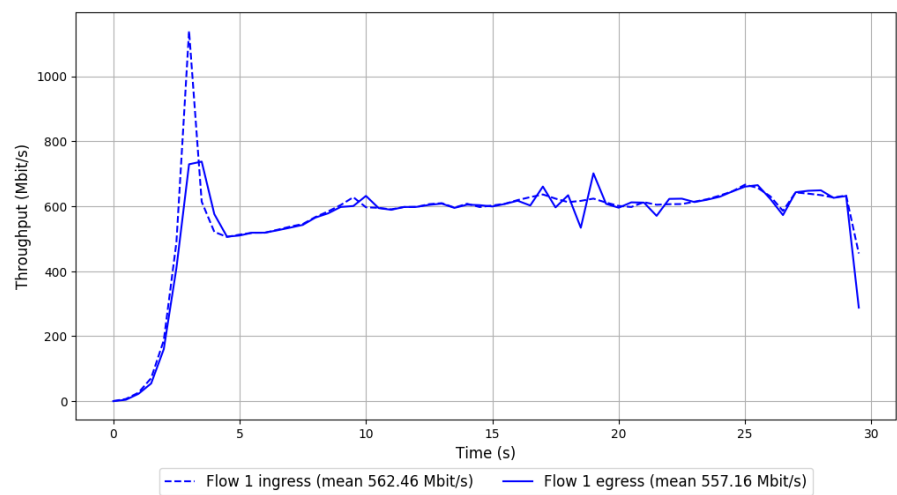
-- Flow 1:

Average throughput: 557.16 Mbit/s

95th percentile per-packet one-way delay: 142.747 ms

Loss rate: 1.69%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-15 22:38:04

End at: 2018-02-15 22:38:34

Below is generated by plot.py at 2018-02-16 03:34:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 566.90 Mbit/s

95th percentile per-packet one-way delay: 144.066 ms

Loss rate: 1.63%

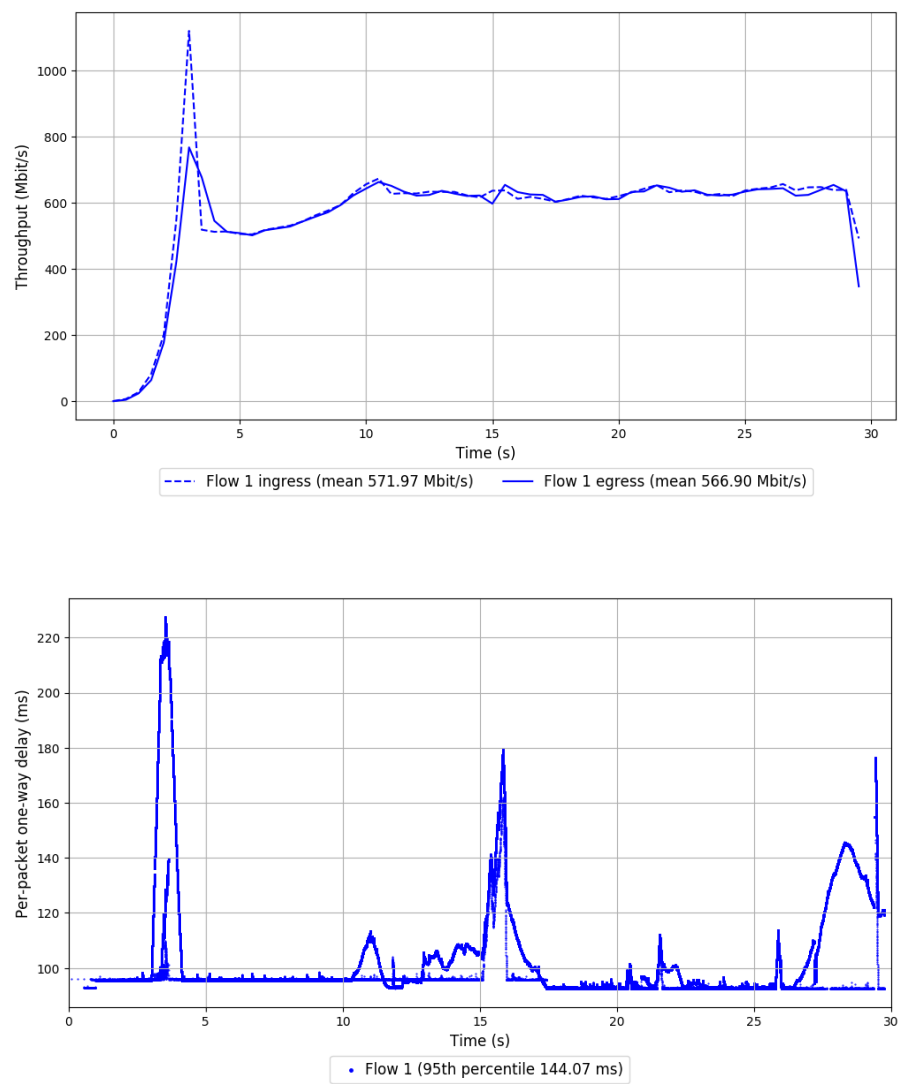
-- Flow 1:

Average throughput: 566.90 Mbit/s

95th percentile per-packet one-way delay: 144.066 ms

Loss rate: 1.63%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-15 22:53:16

End at: 2018-02-15 22:53:46

Below is generated by plot.py at 2018-02-16 03:34:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 547.02 Mbit/s

95th percentile per-packet one-way delay: 137.556 ms

Loss rate: 1.56%

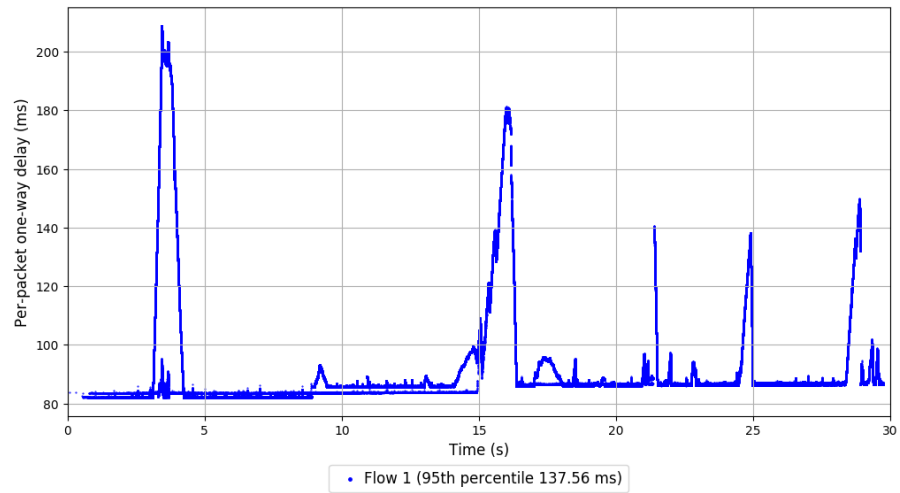
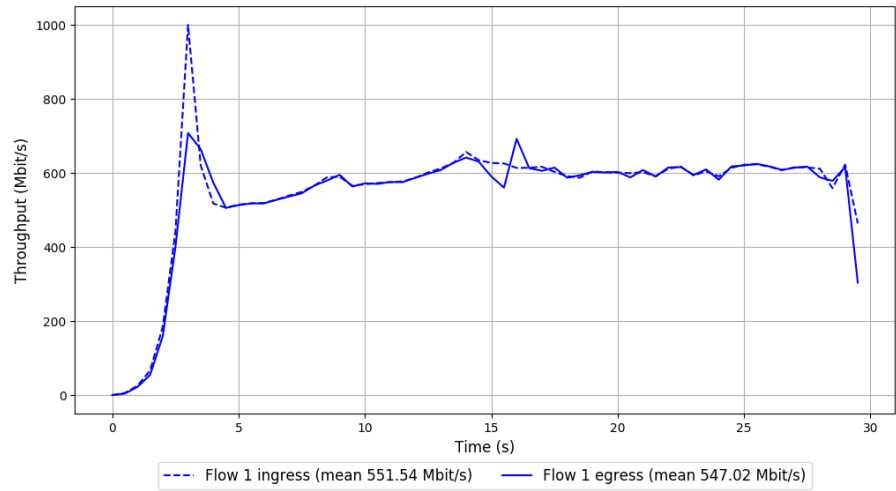
-- Flow 1:

Average throughput: 547.02 Mbit/s

95th percentile per-packet one-way delay: 137.556 ms

Loss rate: 1.56%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-15 23:08:41

End at: 2018-02-15 23:09:11

Below is generated by plot.py at 2018-02-16 03:34:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 512.54 Mbit/s

95th percentile per-packet one-way delay: 109.638 ms

Loss rate: 1.64%

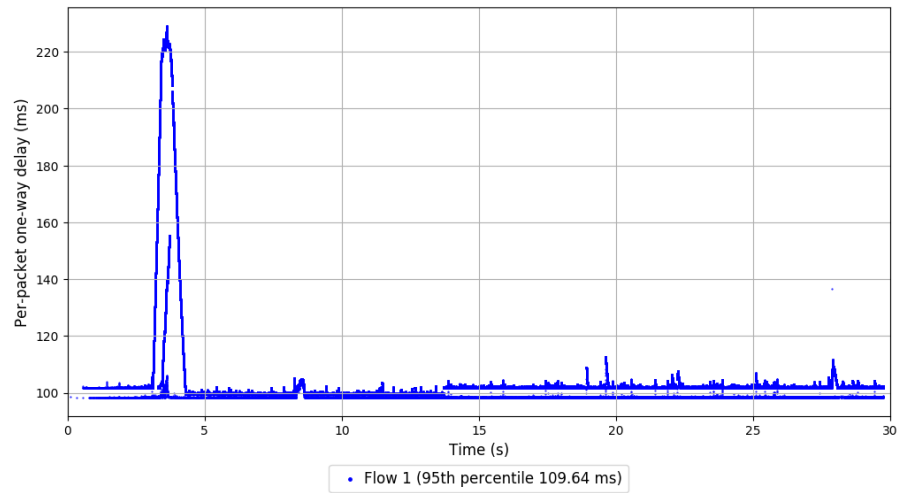
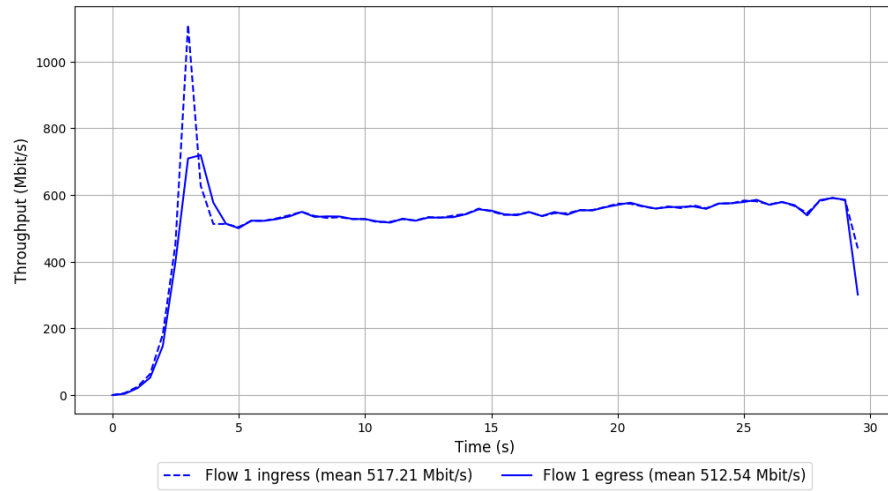
-- Flow 1:

Average throughput: 512.54 Mbit/s

95th percentile per-packet one-way delay: 109.638 ms

Loss rate: 1.64%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-15 23:24:19

End at: 2018-02-15 23:24:49

Below is generated by plot.py at 2018-02-16 03:34:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 548.29 Mbit/s

95th percentile per-packet one-way delay: 170.630 ms

Loss rate: 1.55%

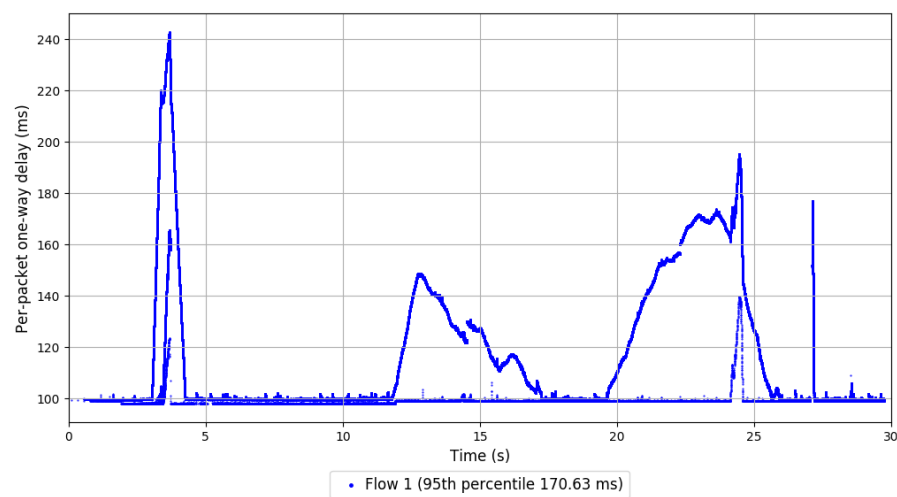
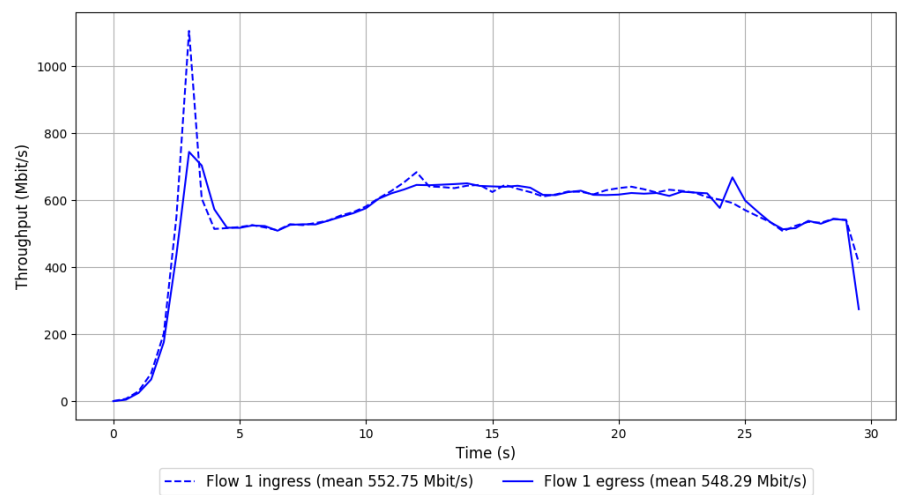
-- Flow 1:

Average throughput: 548.29 Mbit/s

95th percentile per-packet one-way delay: 170.630 ms

Loss rate: 1.55%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-15 23:39:57

End at: 2018-02-15 23:40:27

Below is generated by plot.py at 2018-02-16 03:34:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 541.48 Mbit/s

95th percentile per-packet one-way delay: 120.048 ms

Loss rate: 1.54%

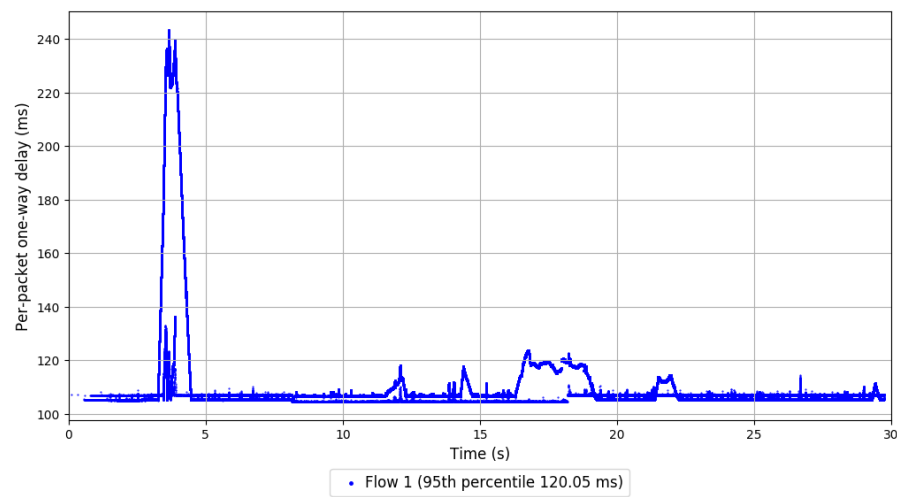
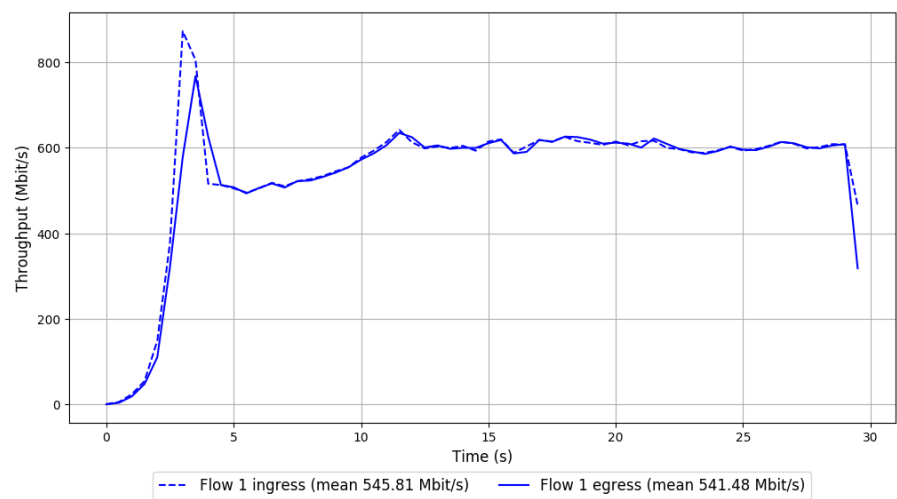
-- Flow 1:

Average throughput: 541.48 Mbit/s

95th percentile per-packet one-way delay: 120.048 ms

Loss rate: 1.54%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-15 23:55:32

End at: 2018-02-15 23:56:02

Below is generated by plot.py at 2018-02-16 03:35:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 541.04 Mbit/s

95th percentile per-packet one-way delay: 176.775 ms

Loss rate: 1.78%

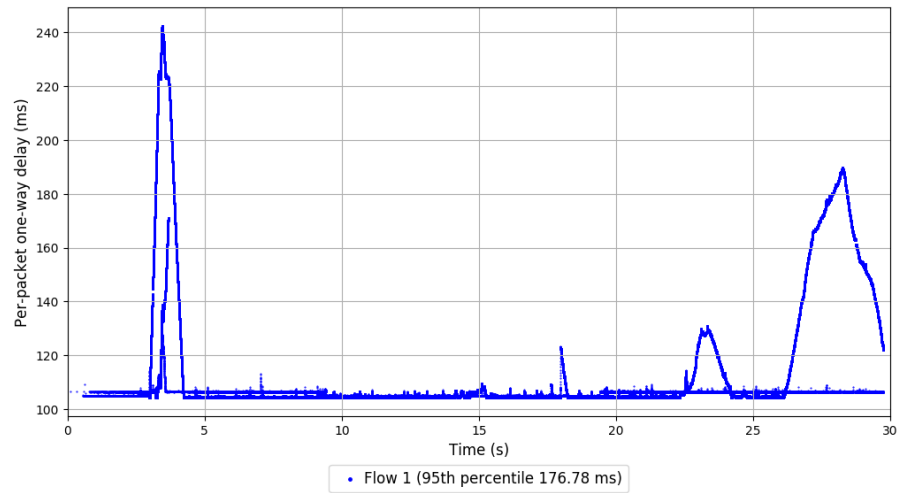
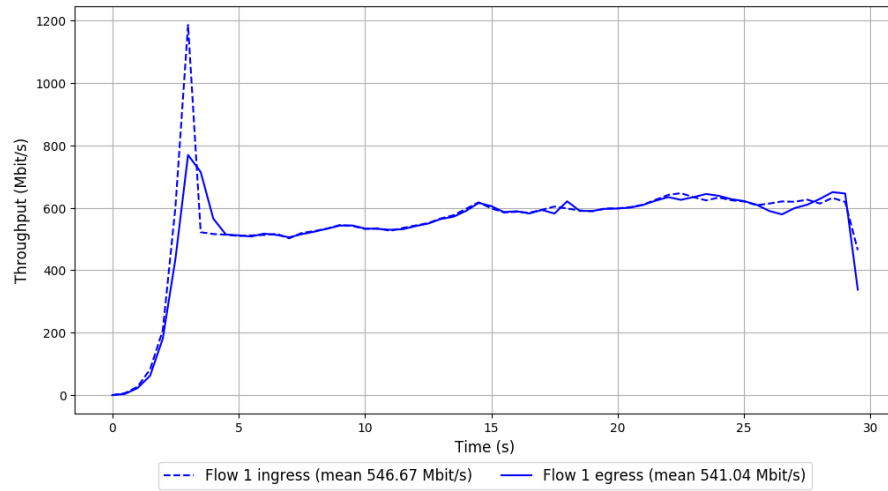
-- Flow 1:

Average throughput: 541.04 Mbit/s

95th percentile per-packet one-way delay: 176.775 ms

Loss rate: 1.78%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-16 00:11:21

End at: 2018-02-16 00:11:51

Below is generated by plot.py at 2018-02-16 03:43:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 557.65 Mbit/s

95th percentile per-packet one-way delay: 139.089 ms

Loss rate: 1.73%

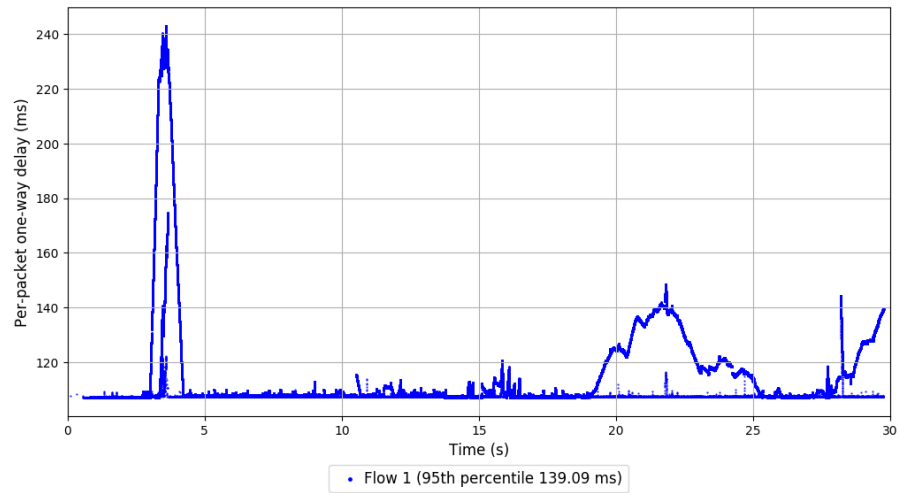
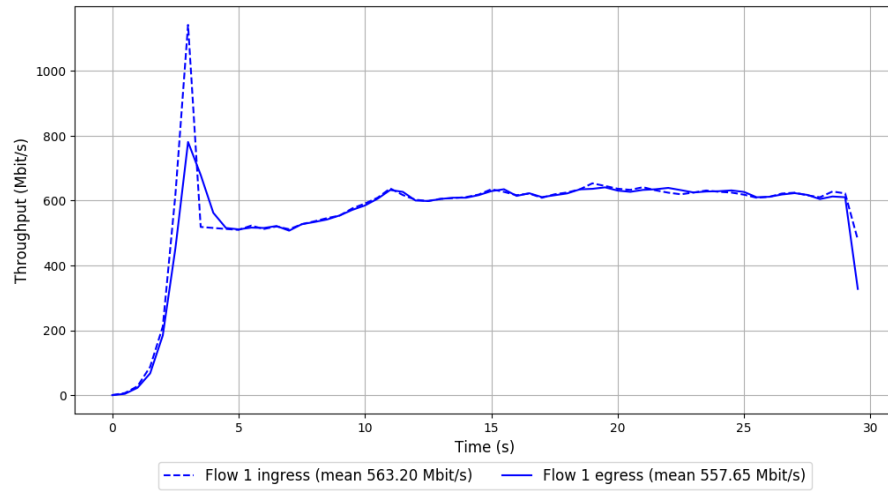
-- Flow 1:

Average throughput: 557.65 Mbit/s

95th percentile per-packet one-way delay: 139.089 ms

Loss rate: 1.73%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-16 00:26:57

End at: 2018-02-16 00:27:27

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 542.41 Mbit/s

95th percentile per-packet one-way delay: 212.552 ms

Loss rate: 1.68%

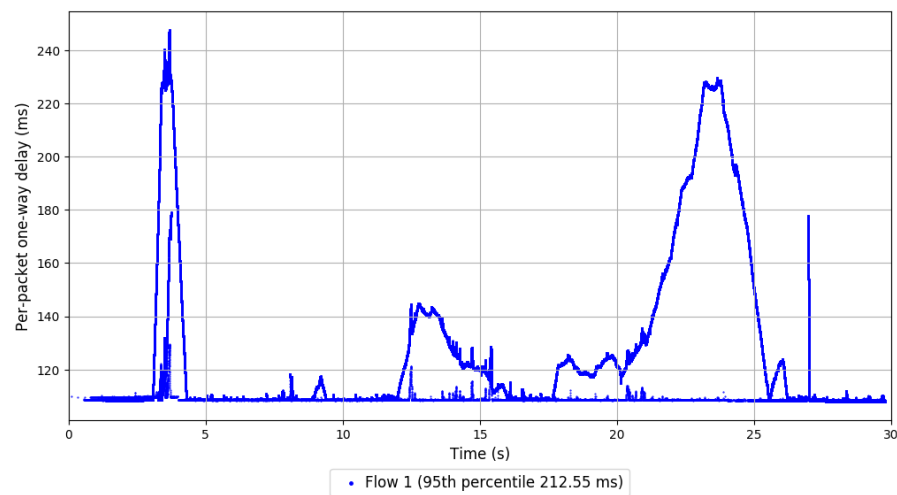
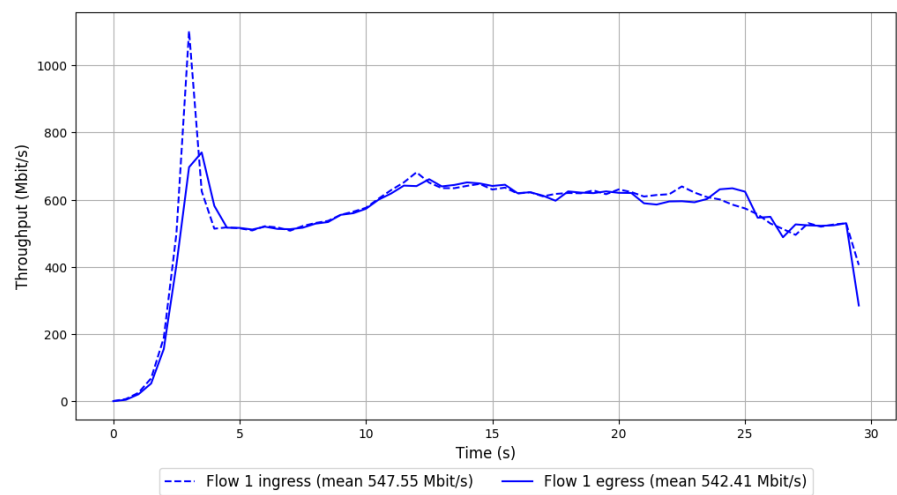
-- Flow 1:

Average throughput: 542.41 Mbit/s

95th percentile per-packet one-way delay: 212.552 ms

Loss rate: 1.68%

Run 10: Report of PCC — Data Link

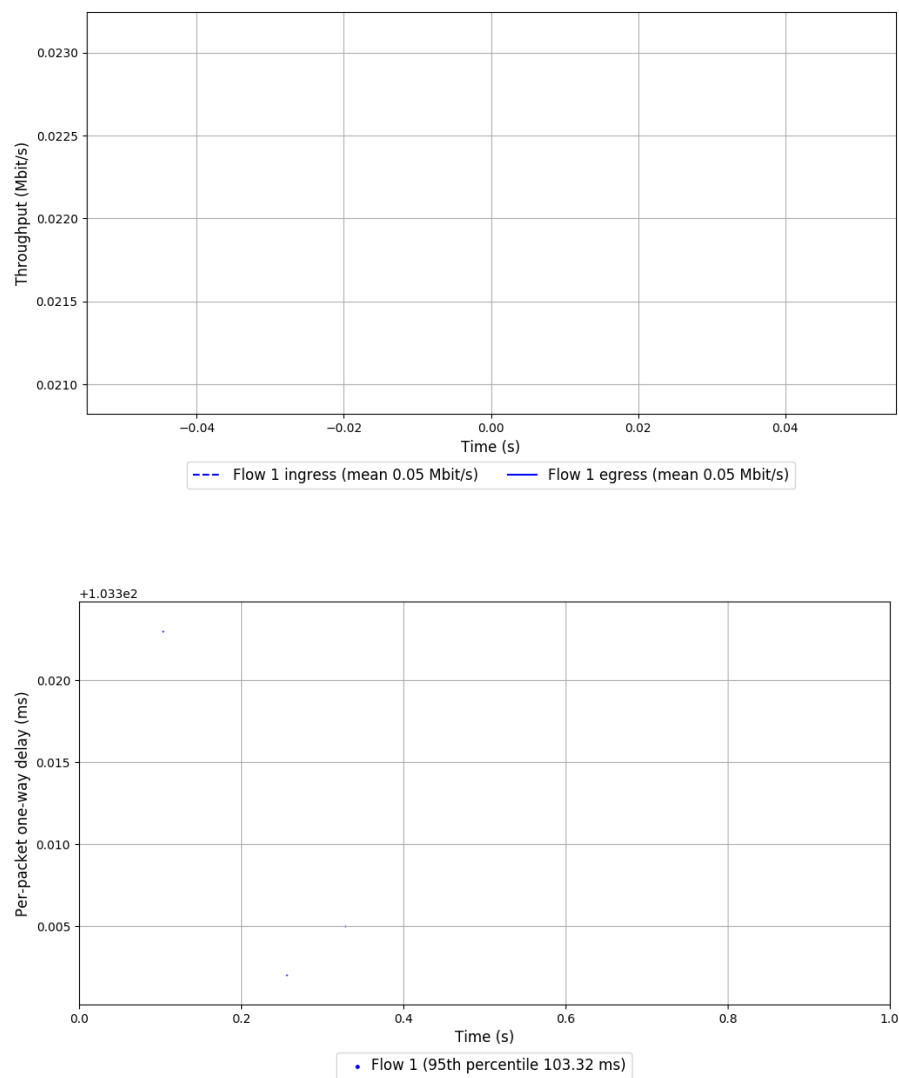


Run 1: Statistics of QUIC Cubic

Start at: 2018-02-15 21:59:51

End at: 2018-02-15 22:00:21

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-15 22:16:38

End at: 2018-02-15 22:17:08

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.15 Mbit/s

95th percentile per-packet one-way delay: 96.612 ms

Loss rate: 1.01%

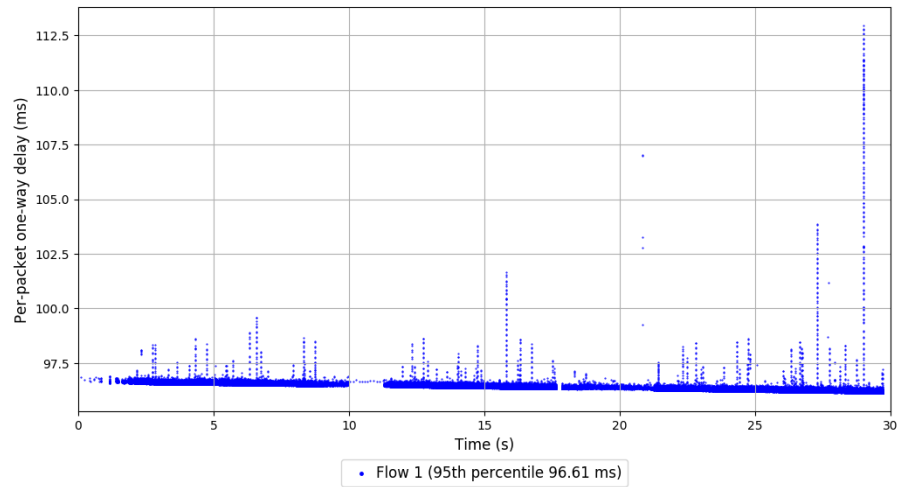
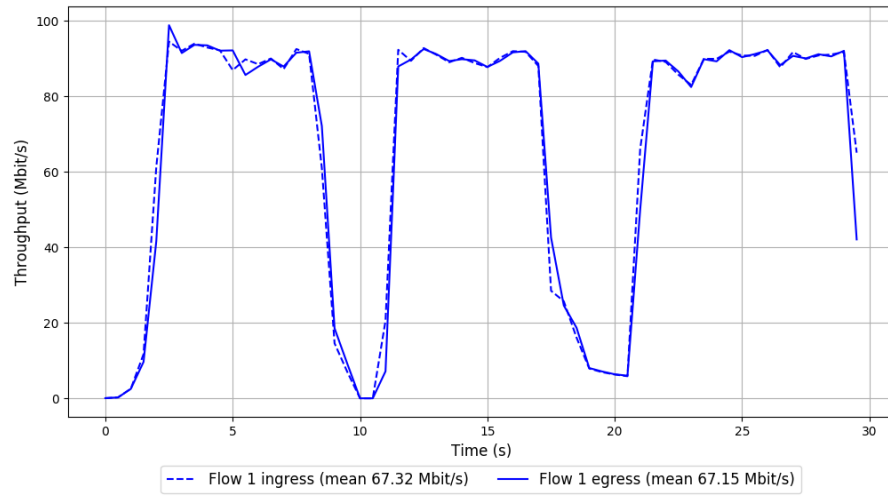
-- Flow 1:

Average throughput: 67.15 Mbit/s

95th percentile per-packet one-way delay: 96.612 ms

Loss rate: 1.01%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-15 22:33:38

End at: 2018-02-15 22:34:08

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.78 Mbit/s

95th percentile per-packet one-way delay: 96.691 ms

Loss rate: 0.99%

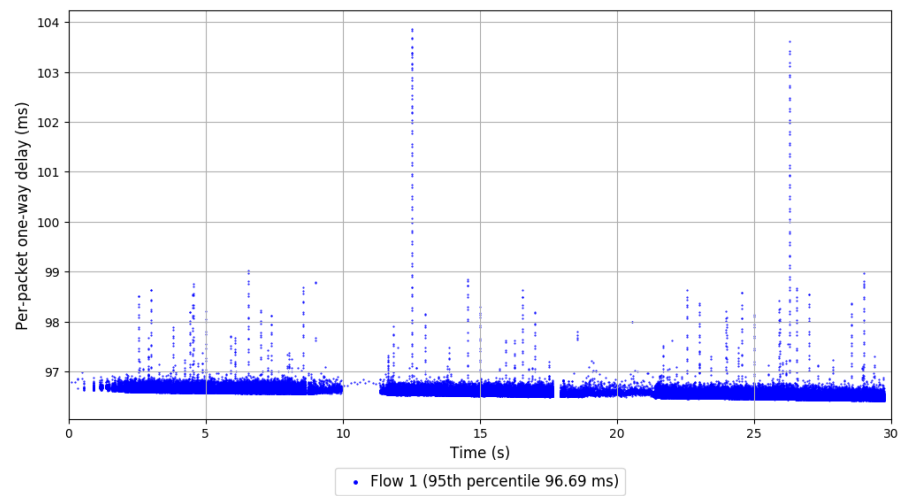
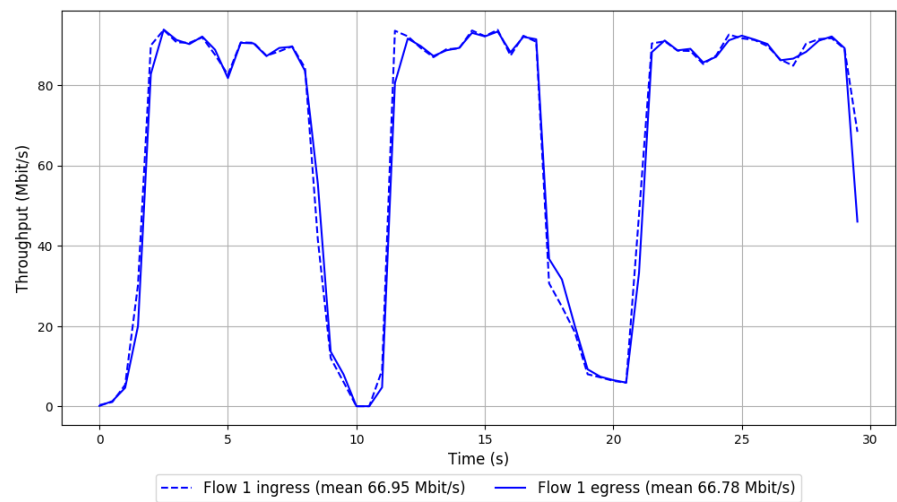
-- Flow 1:

Average throughput: 66.78 Mbit/s

95th percentile per-packet one-way delay: 96.691 ms

Loss rate: 0.99%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-15 22:49:01

End at: 2018-02-15 22:49:31

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.48 Mbit/s

95th percentile per-packet one-way delay: 89.209 ms

Loss rate: 1.00%

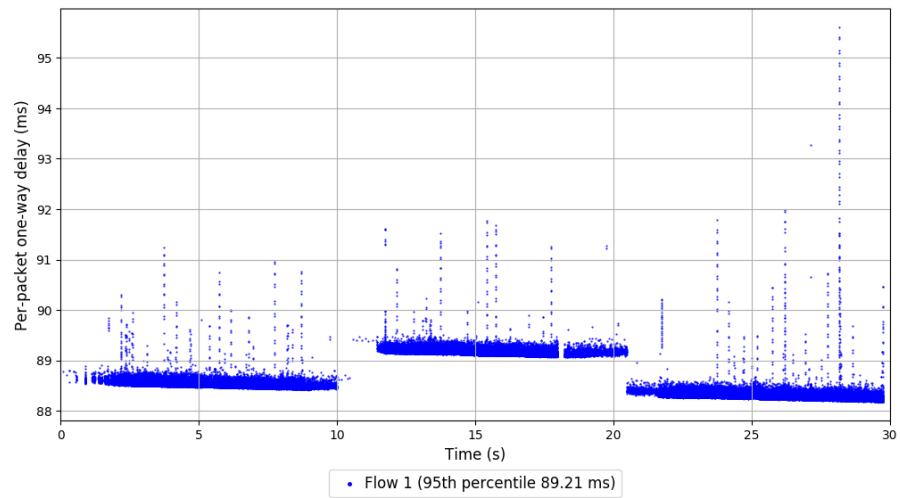
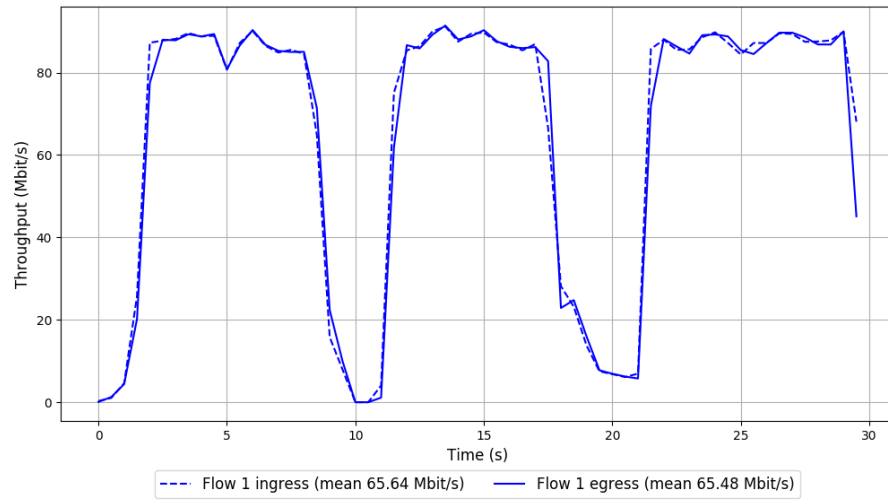
-- Flow 1:

Average throughput: 65.48 Mbit/s

95th percentile per-packet one-way delay: 89.209 ms

Loss rate: 1.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-15 23:04:14

End at: 2018-02-15 23:04:44

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.26 Mbit/s

95th percentile per-packet one-way delay: 101.286 ms

Loss rate: 1.03%

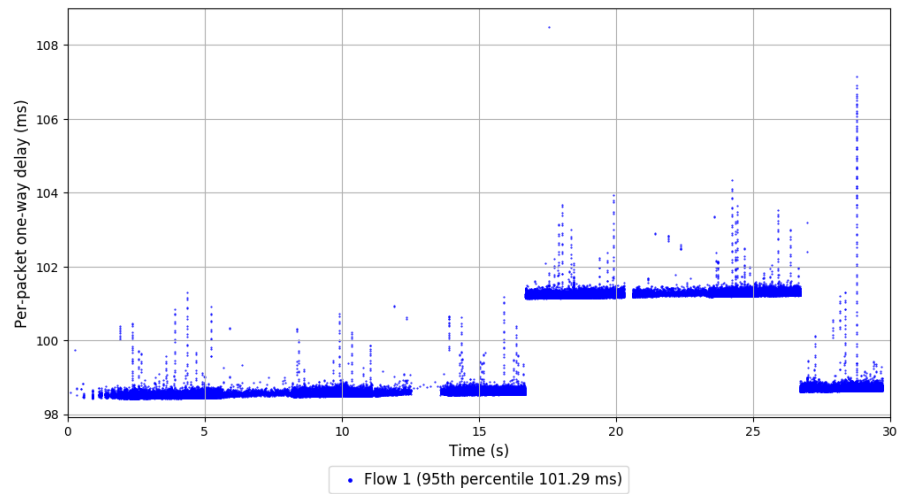
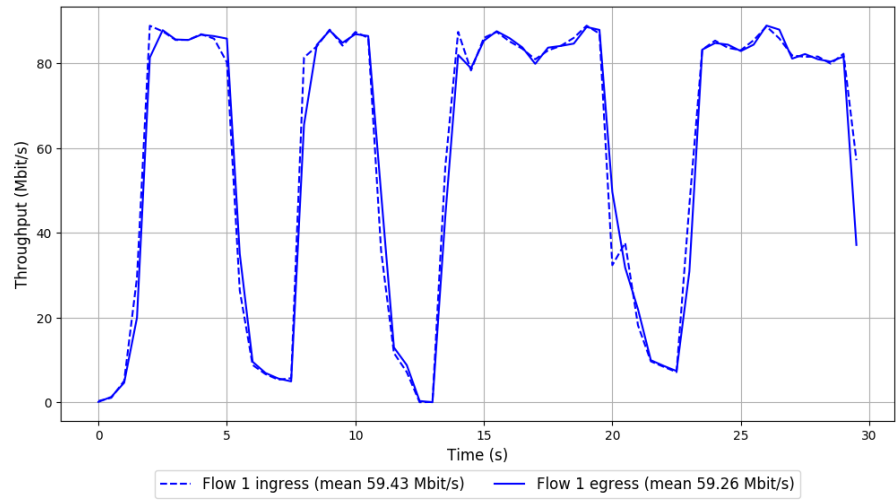
-- Flow 1:

Average throughput: 59.26 Mbit/s

95th percentile per-packet one-way delay: 101.286 ms

Loss rate: 1.03%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-15 23:19:53

End at: 2018-02-15 23:20:23

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.18 Mbit/s

95th percentile per-packet one-way delay: 101.276 ms

Loss rate: 0.95%

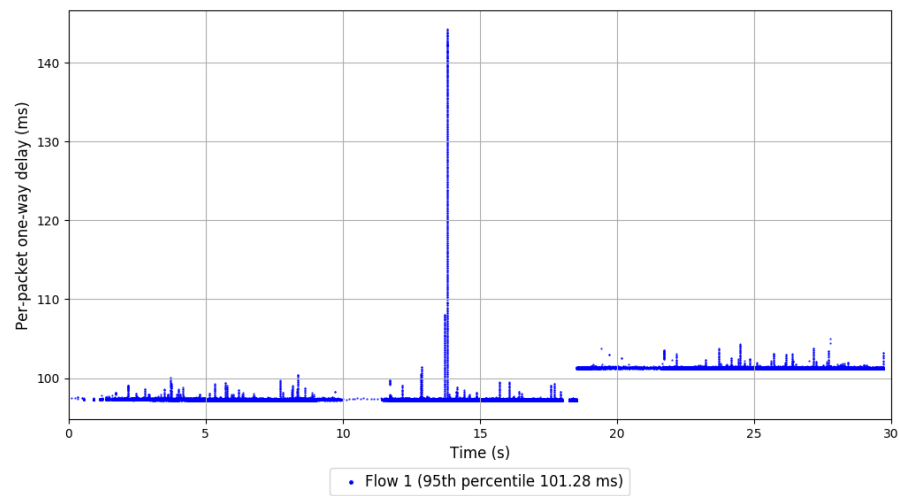
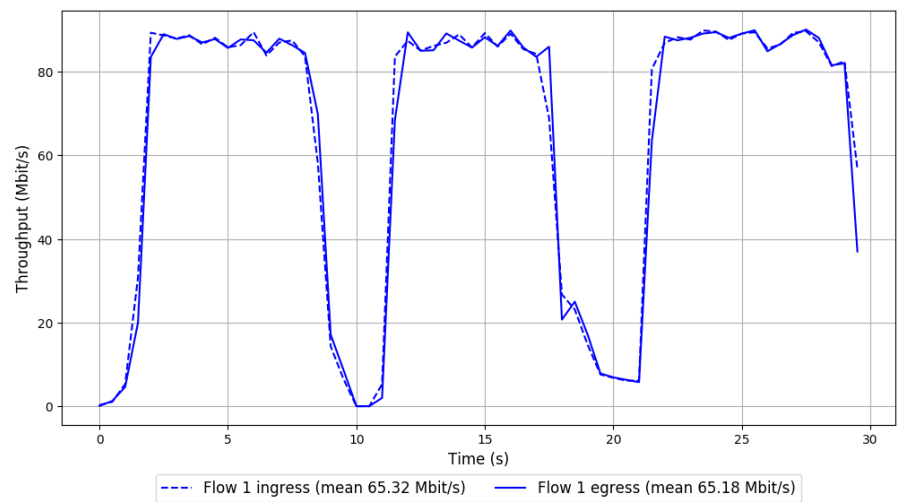
-- Flow 1:

Average throughput: 65.18 Mbit/s

95th percentile per-packet one-way delay: 101.276 ms

Loss rate: 0.95%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-15 23:35:29

End at: 2018-02-15 23:35:59

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.02 Mbit/s

95th percentile per-packet one-way delay: 107.459 ms

Loss rate: 0.98%

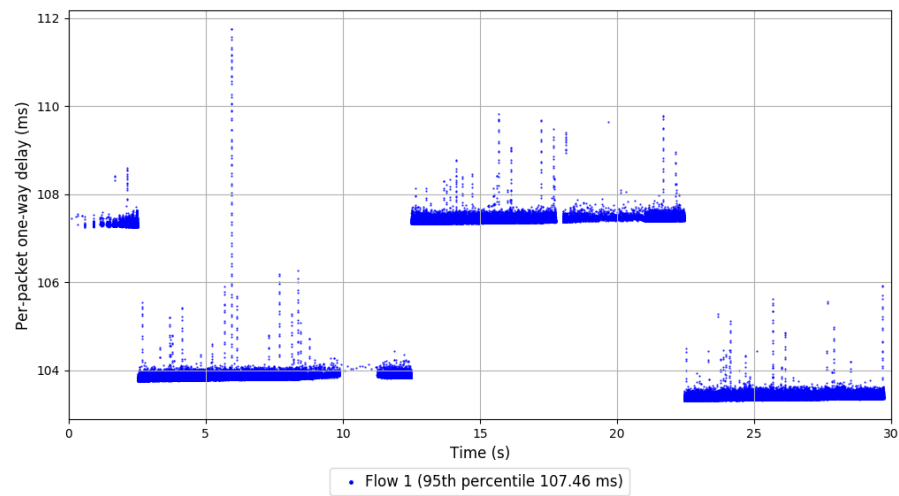
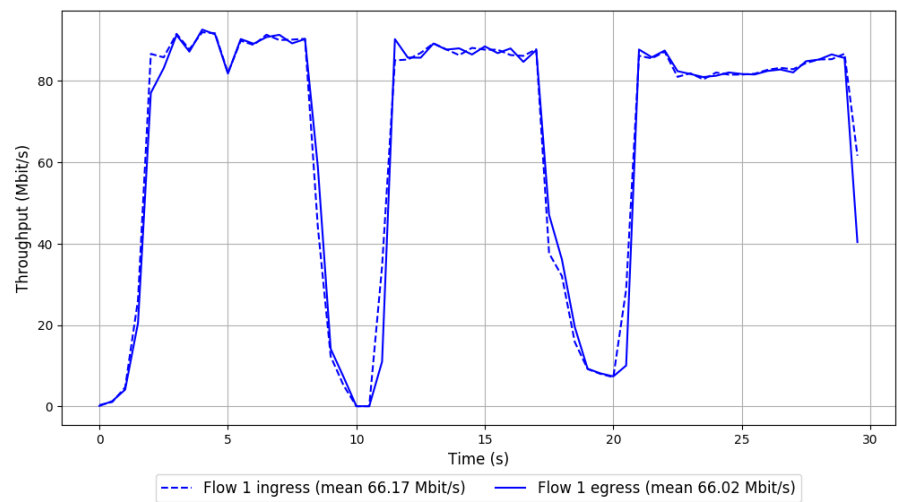
-- Flow 1:

Average throughput: 66.02 Mbit/s

95th percentile per-packet one-way delay: 107.459 ms

Loss rate: 0.98%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-15 23:51:11

End at: 2018-02-15 23:51:41

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.38 Mbit/s

95th percentile per-packet one-way delay: 106.671 ms

Loss rate: 1.10%

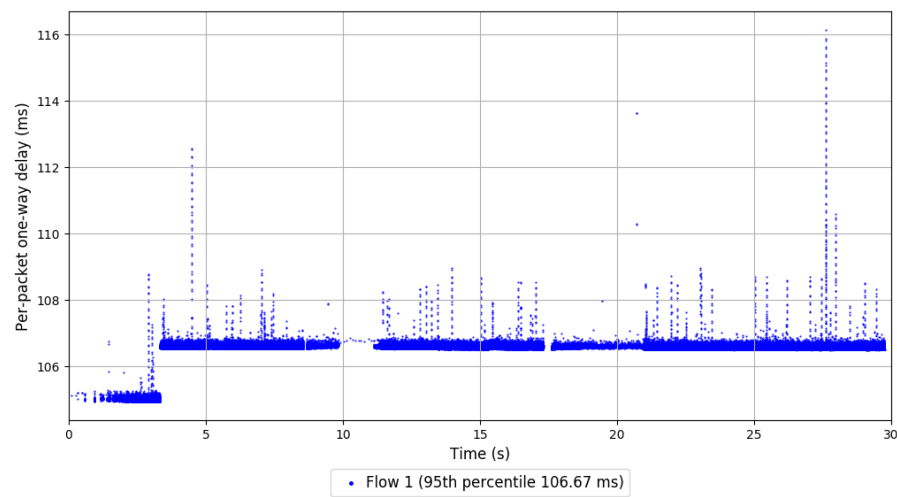
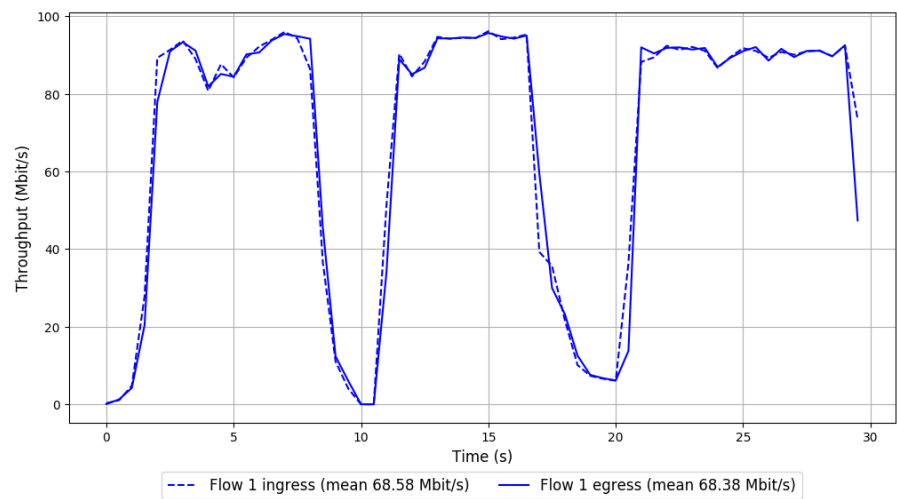
-- Flow 1:

Average throughput: 68.38 Mbit/s

95th percentile per-packet one-way delay: 106.671 ms

Loss rate: 1.10%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-16 00:06:56

End at: 2018-02-16 00:07:26

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.64 Mbit/s

95th percentile per-packet one-way delay: 108.372 ms

Loss rate: 1.06%

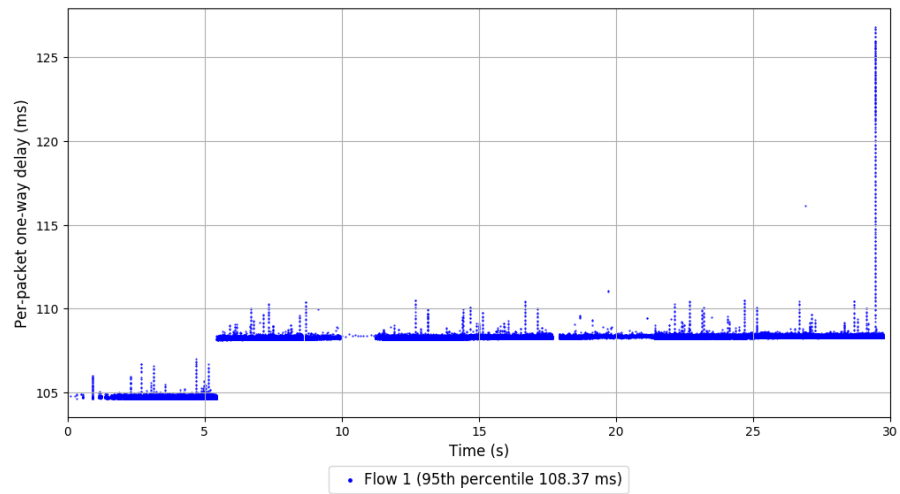
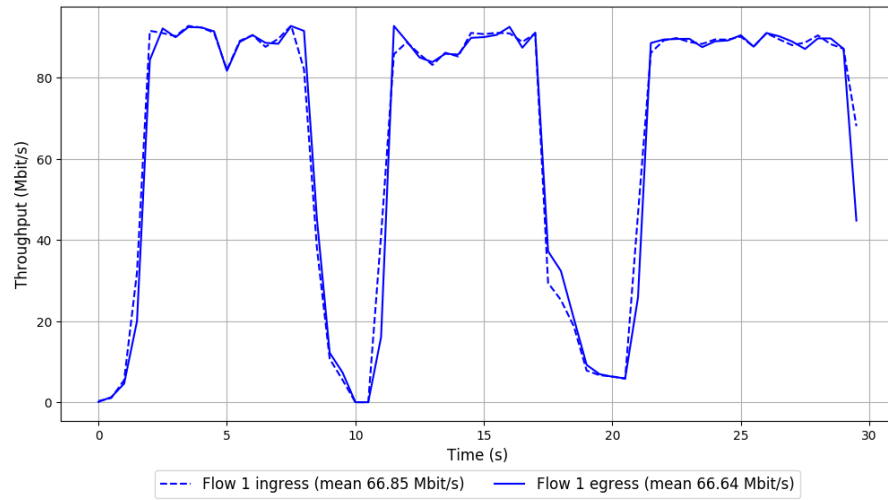
-- Flow 1:

Average throughput: 66.64 Mbit/s

95th percentile per-packet one-way delay: 108.372 ms

Loss rate: 1.06%

Run 9: Report of QUIC Cubic — Data Link

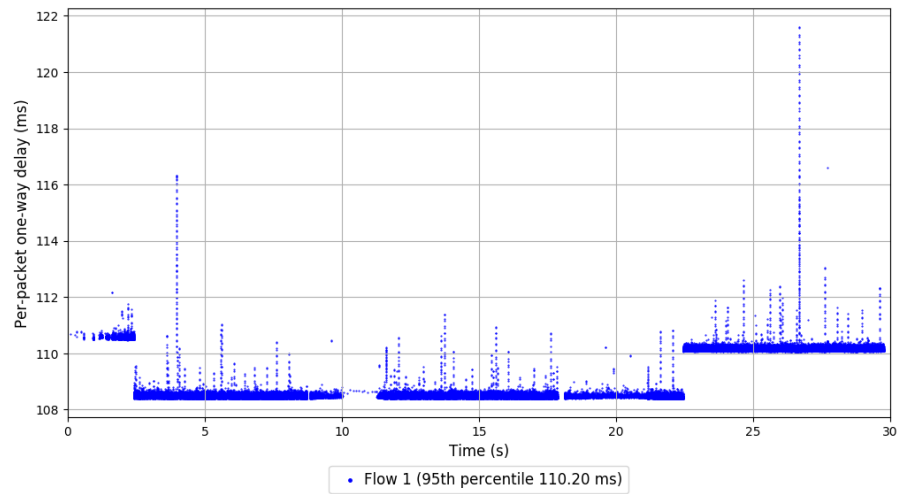
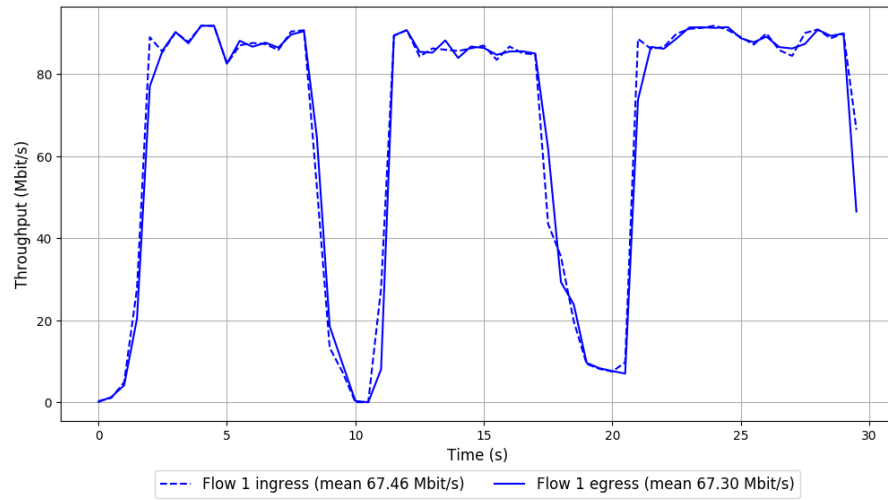


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-02-16 00:22:29
End at: 2018-02-16 00:22:59

# Below is generated by plot.py at 2018-02-16 03:43:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.30 Mbit/s
95th percentile per-packet one-way delay: 110.197 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 67.30 Mbit/s
95th percentile per-packet one-way delay: 110.197 ms
Loss rate: 0.98%
```

Run 10: Report of QUIC Cubic — Data Link

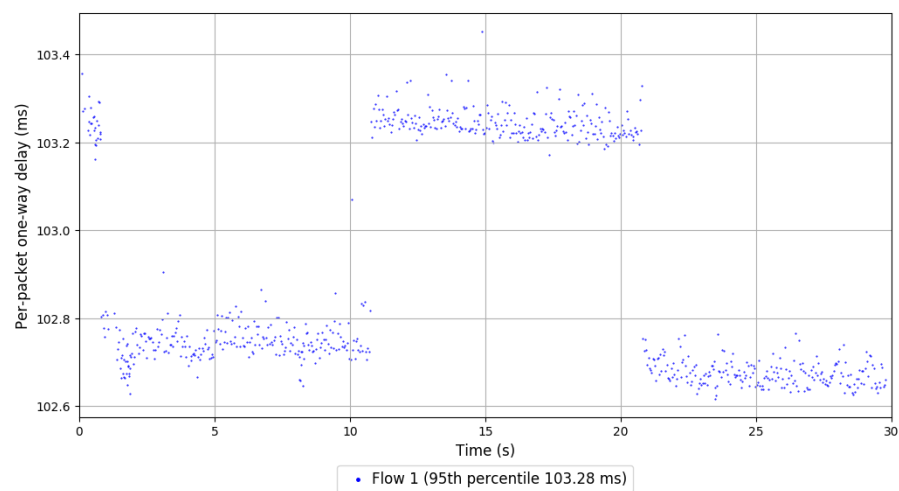
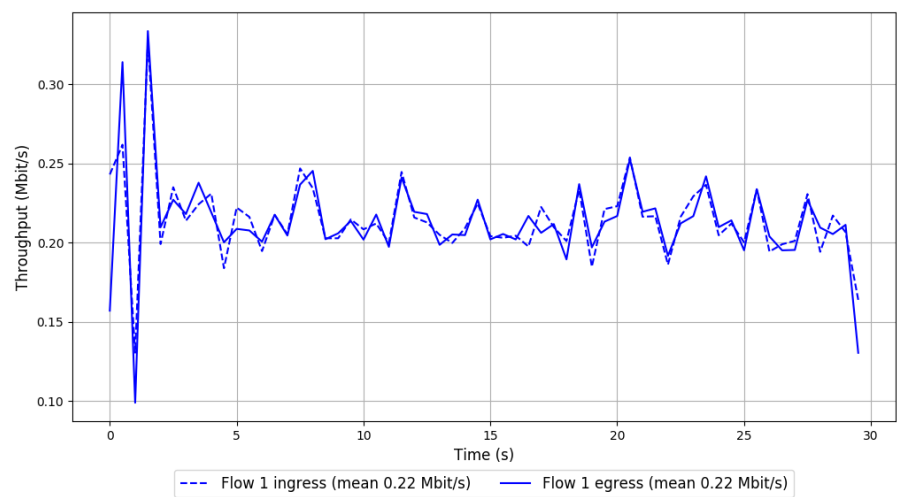


```
Run 1: Statistics of SCReAM

Start at: 2018-02-15 22:07:20
End at: 2018-02-15 22:07:50

# Below is generated by plot.py at 2018-02-16 03:43:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 103.276 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 103.276 ms
Loss rate: 0.64%
```

Run 1: Report of SReAM — Data Link

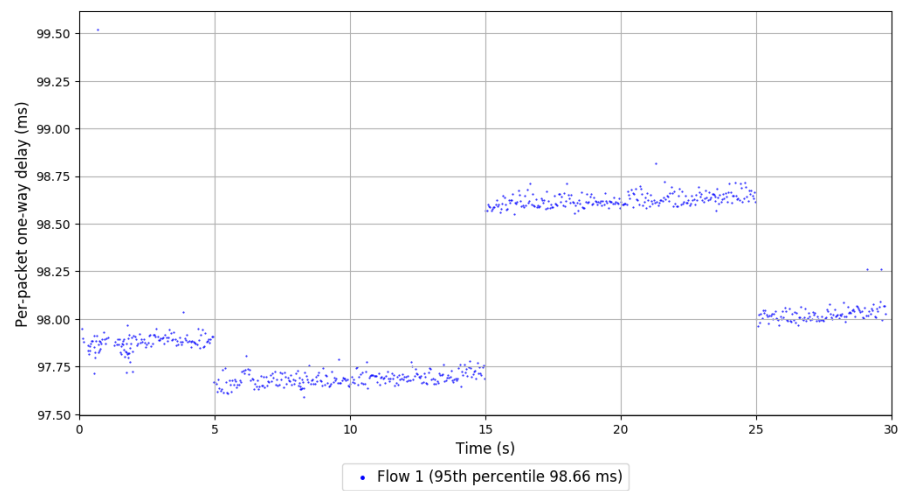
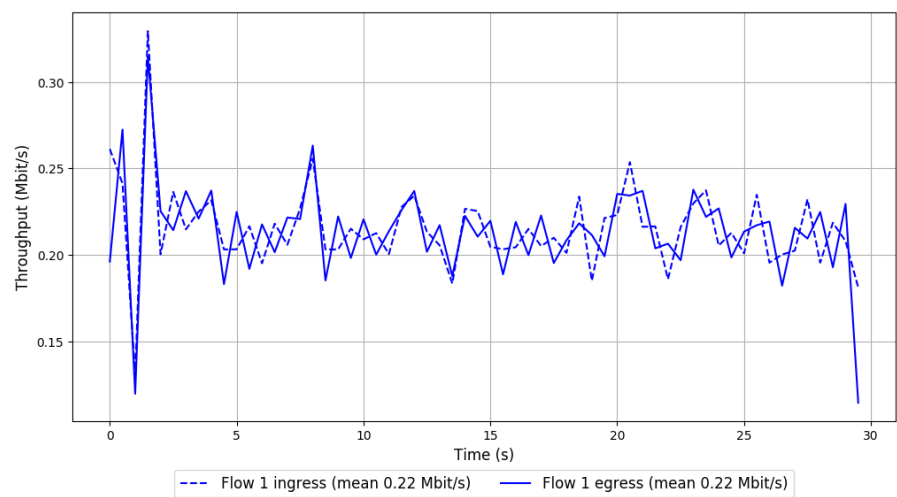


```
Run 2: Statistics of SCReAM

Start at: 2018-02-15 22:24:20
End at: 2018-02-15 22:24:50

# Below is generated by plot.py at 2018-02-16 03:43:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 98.660 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 98.660 ms
Loss rate: 0.77%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-02-15 22:40:44

End at: 2018-02-15 22:41:14

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 94.227 ms

Loss rate: 0.76%

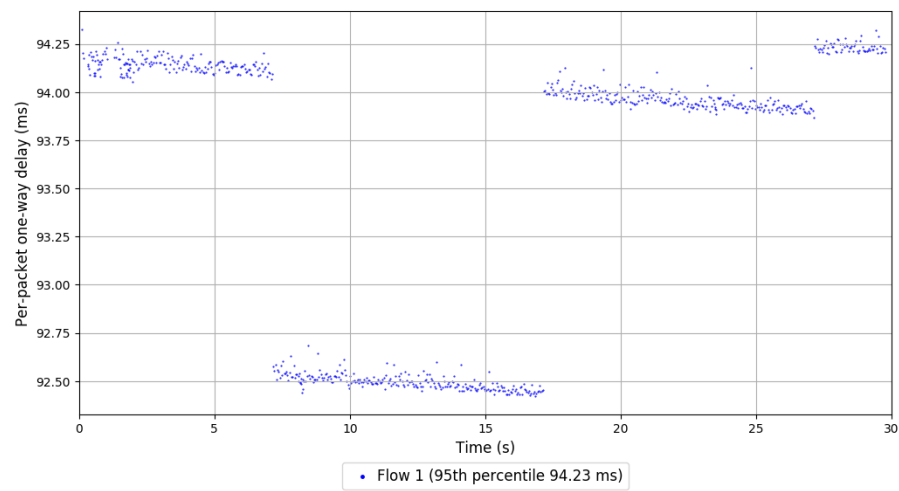
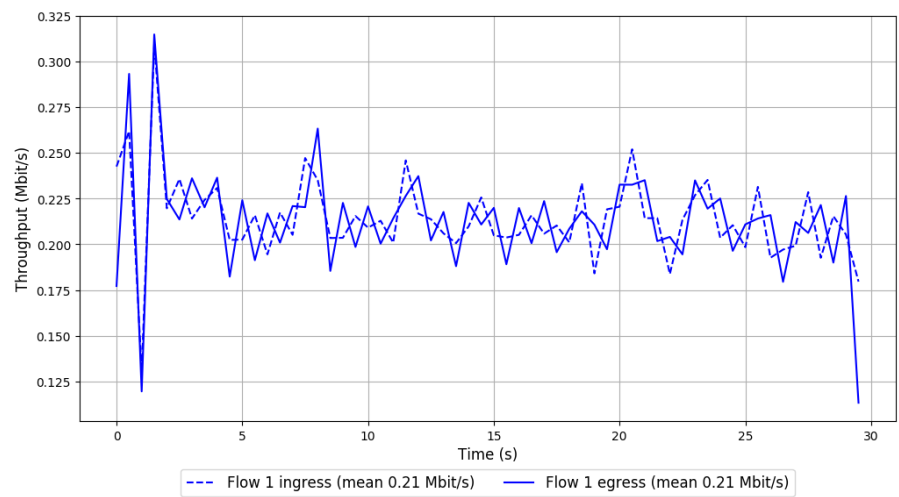
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 94.227 ms

Loss rate: 0.76%

Run 3: Report of SReAM — Data Link

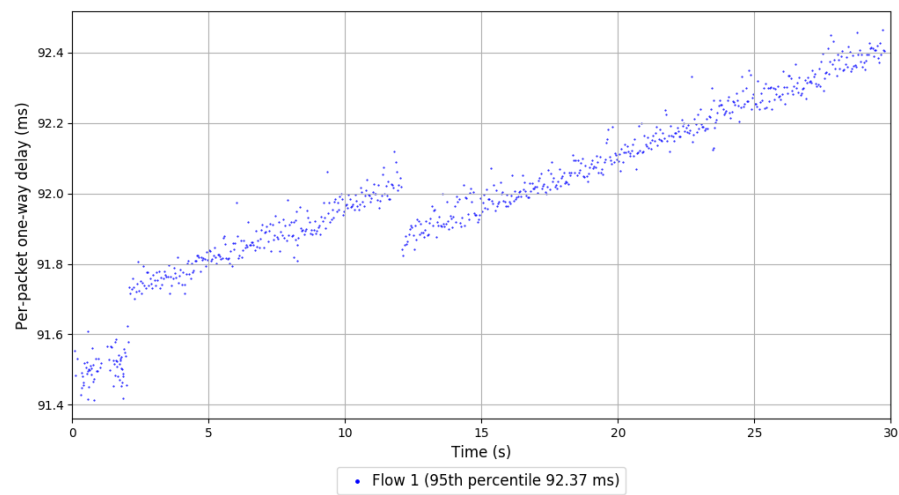
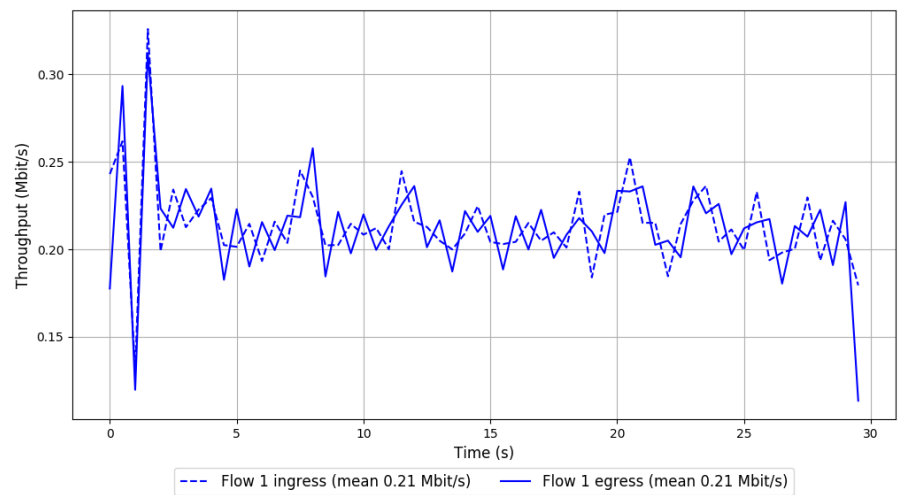


```
Run 4: Statistics of SCReAM

Start at: 2018-02-15 22:55:59
End at: 2018-02-15 22:56:29

# Below is generated by plot.py at 2018-02-16 03:43:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 92.372 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 92.372 ms
Loss rate: 0.76%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-15 23:11:21

End at: 2018-02-15 23:11:51

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 102.163 ms

Loss rate: 0.77%

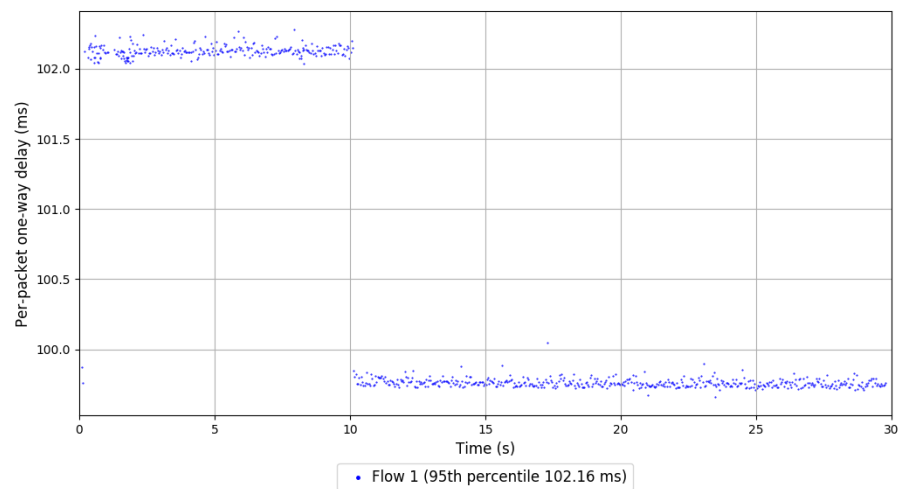
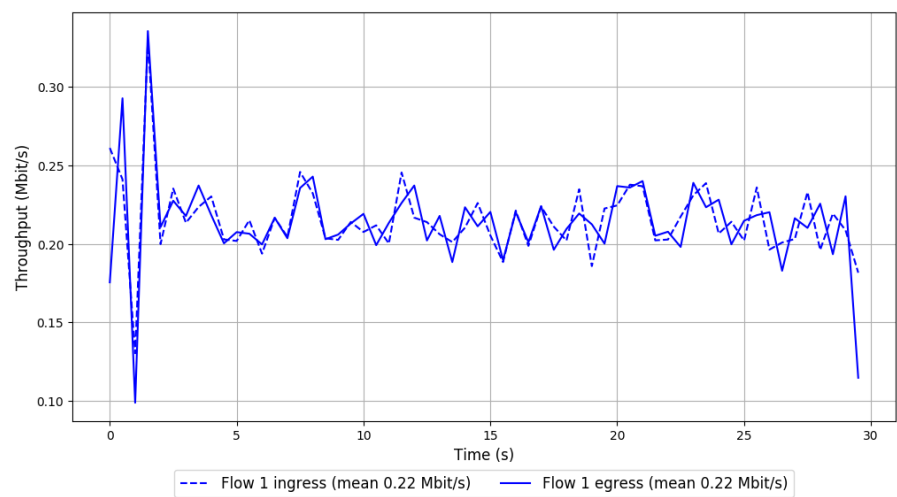
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 102.163 ms

Loss rate: 0.77%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-02-15 23:27:01

End at: 2018-02-15 23:27:31

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 98.787 ms

Loss rate: 0.74%

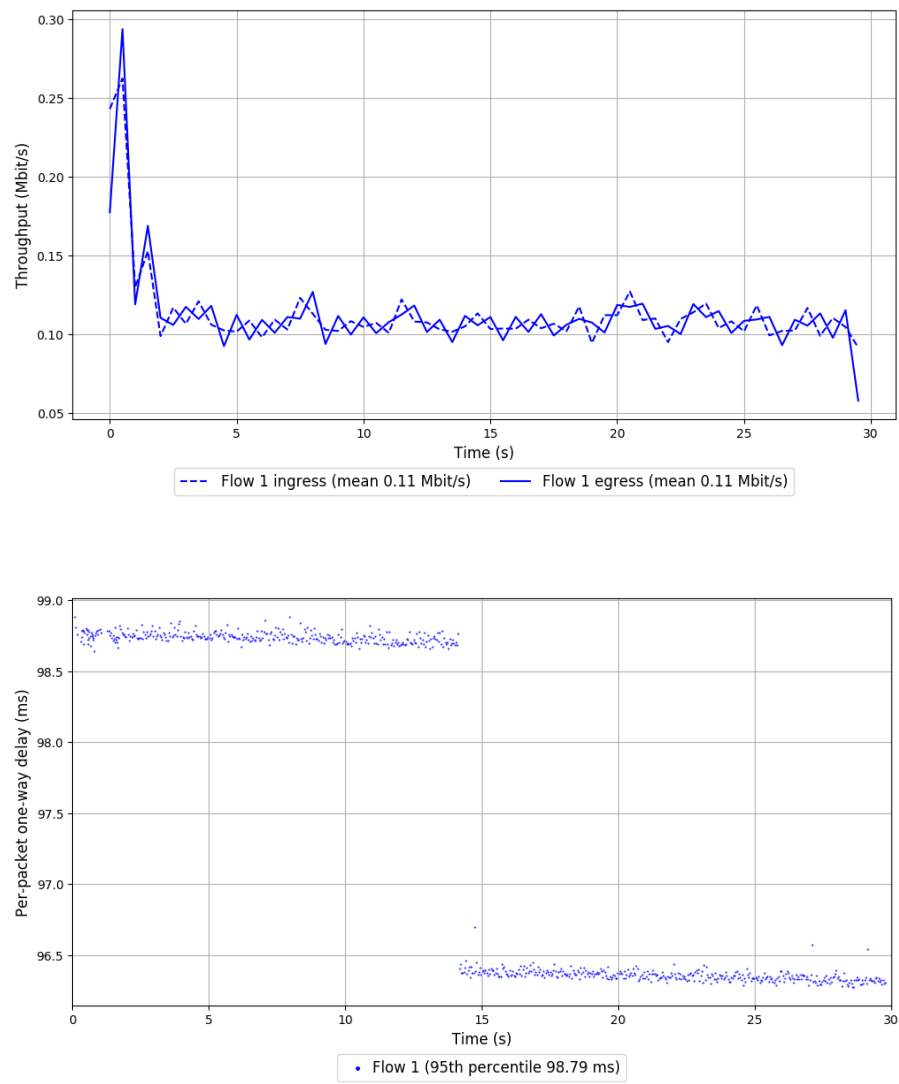
-- Flow 1:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 98.787 ms

Loss rate: 0.74%

Run 6: Report of SReAM — Data Link

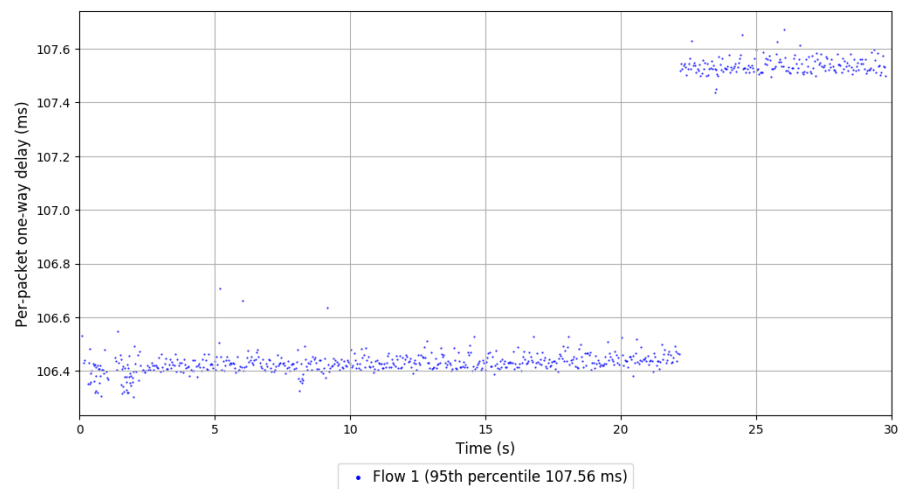
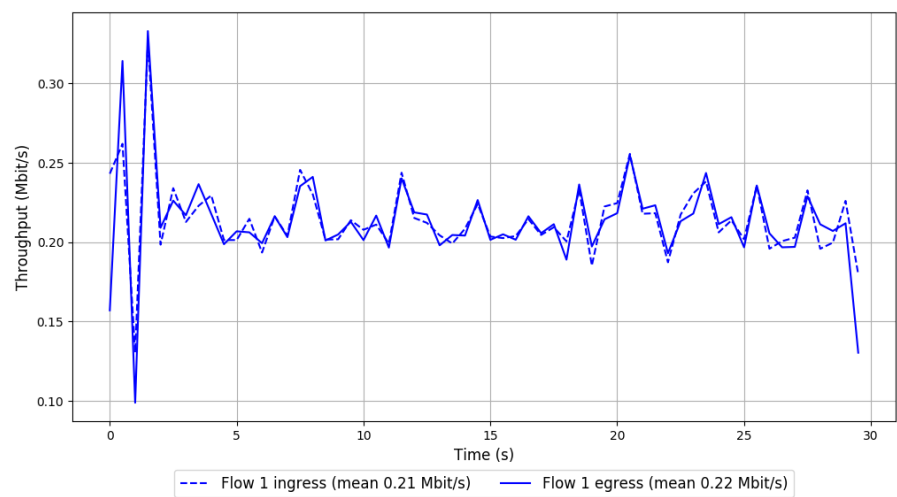


```
Run 7: Statistics of SCReAM

Start at: 2018-02-15 23:42:39
End at: 2018-02-15 23:43:09

# Below is generated by plot.py at 2018-02-16 03:43:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 107.561 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 107.561 ms
Loss rate: 0.76%
```

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-15 23:58:15

End at: 2018-02-15 23:58:45

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 104.498 ms

Loss rate: 0.77%

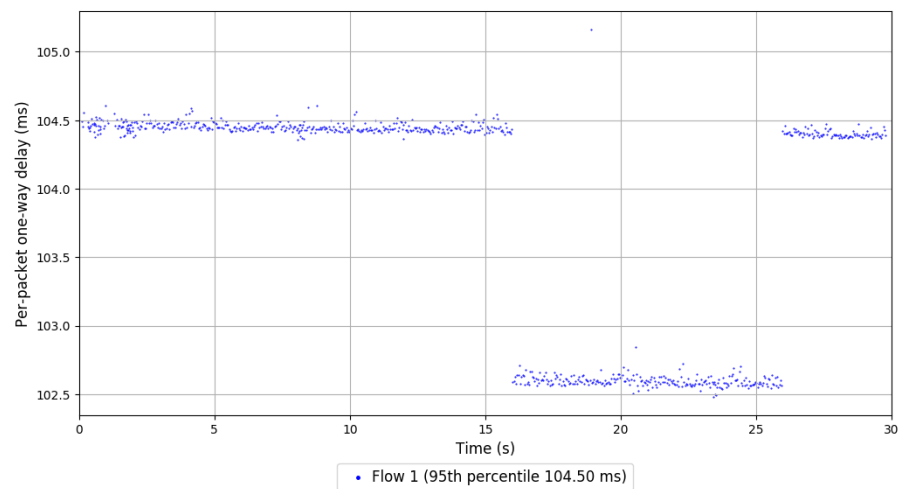
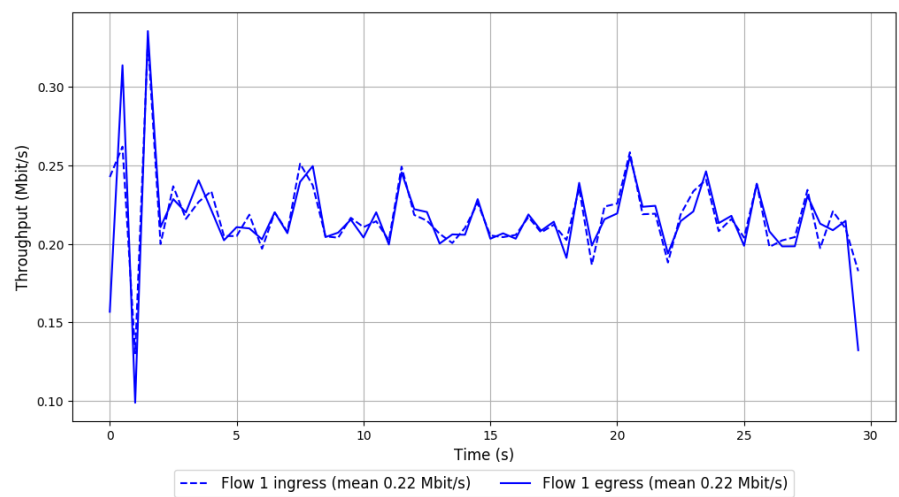
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 104.498 ms

Loss rate: 0.77%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-02-16 00:14:04

End at: 2018-02-16 00:14:34

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 108.269 ms

Loss rate: 0.76%

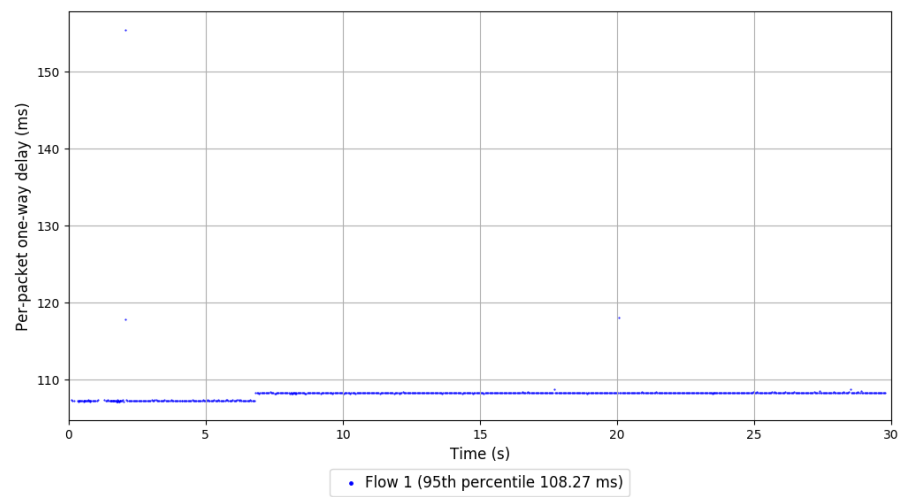
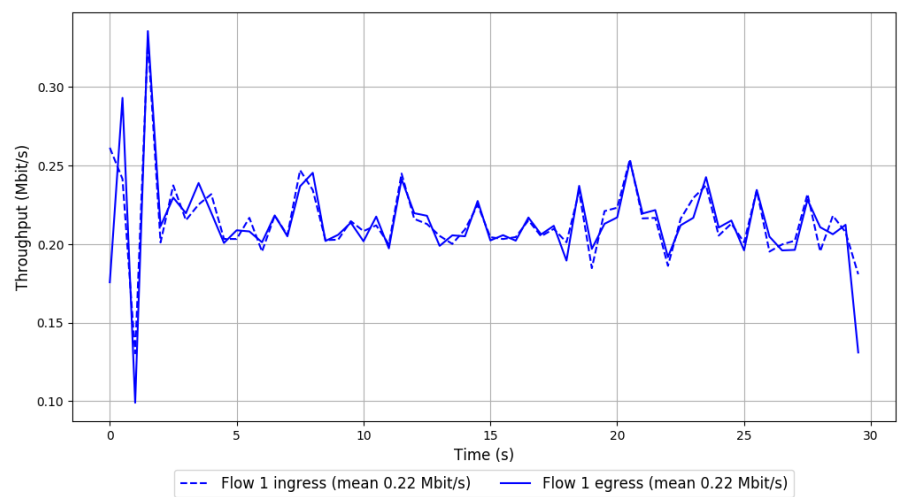
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 108.269 ms

Loss rate: 0.76%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-16 00:29:41

End at: 2018-02-16 00:30:11

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.19 Mbit/s

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

Loss rate: 0.33%

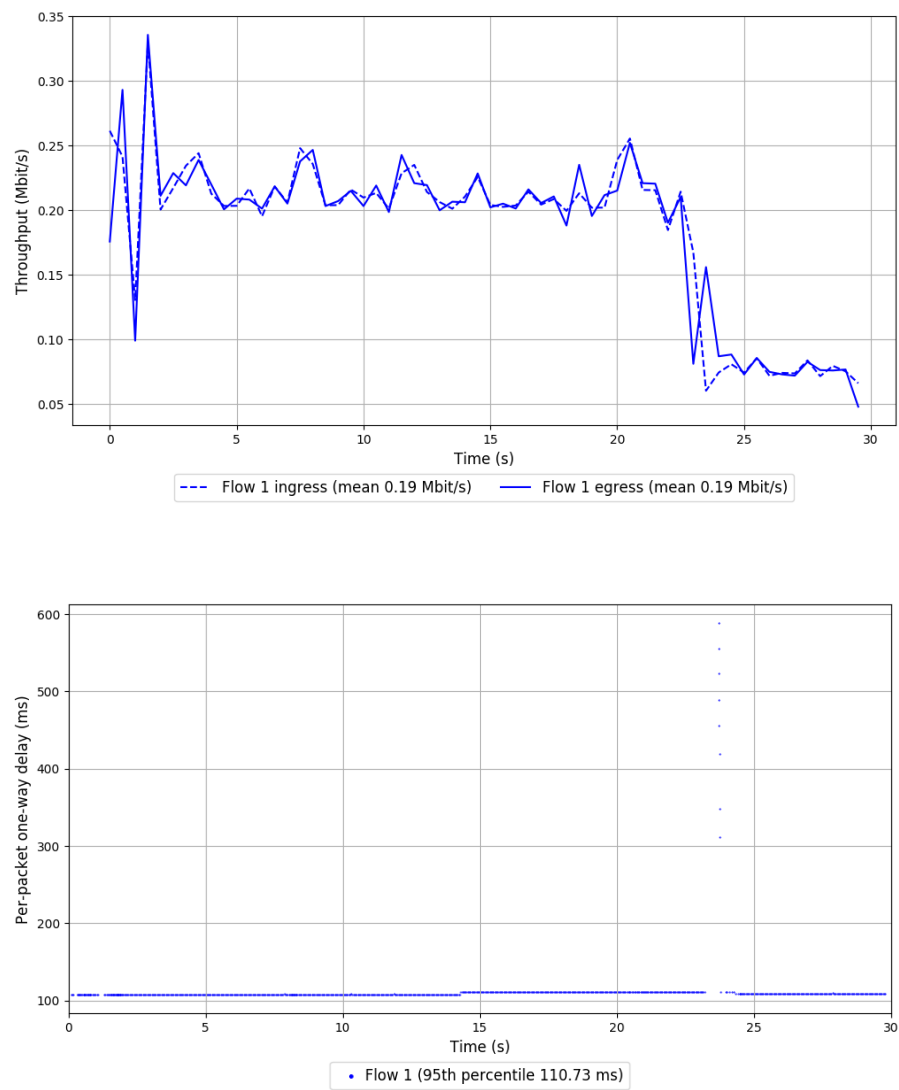
-- Flow 1:

Average throughput: 0.19 Mbit/s

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

Loss rate: 0.33%

Run 10: Report of SCReAM — Data Link

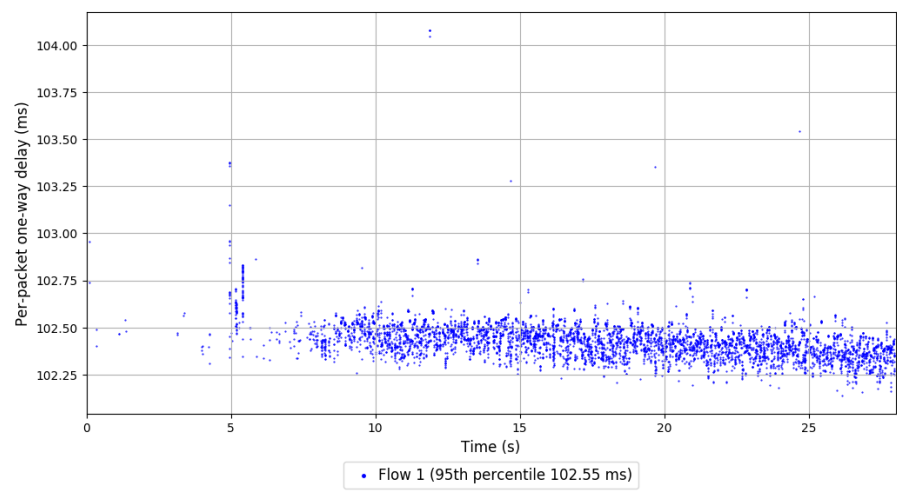
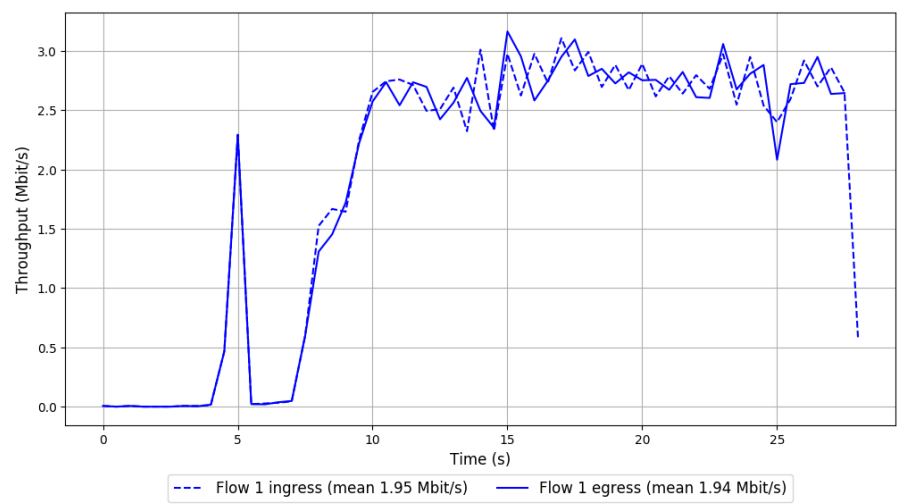


```
Run 1: Statistics of WebRTC media

Start at: 2018-02-15 22:08:01
End at: 2018-02-15 22:08:31

# Below is generated by plot.py at 2018-02-16 03:43:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 102.554 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 102.554 ms
Loss rate: 1.14%
```

Run 1: Report of WebRTC media — Data Link

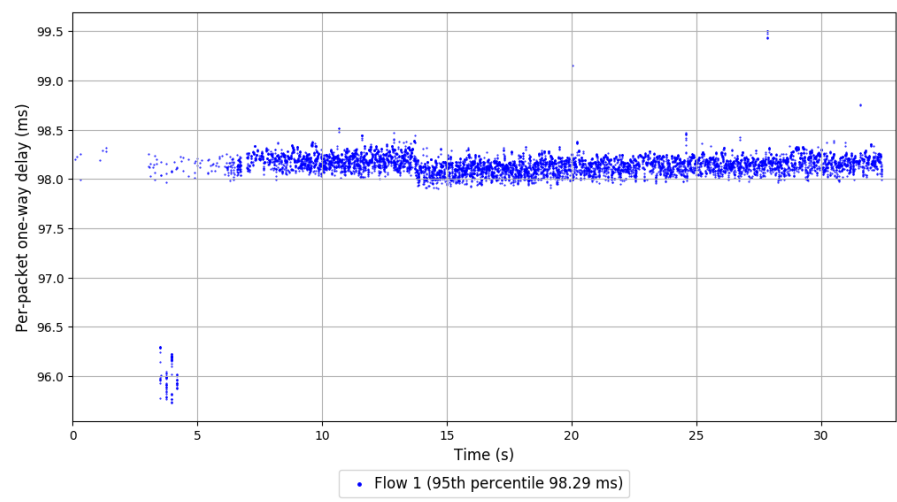
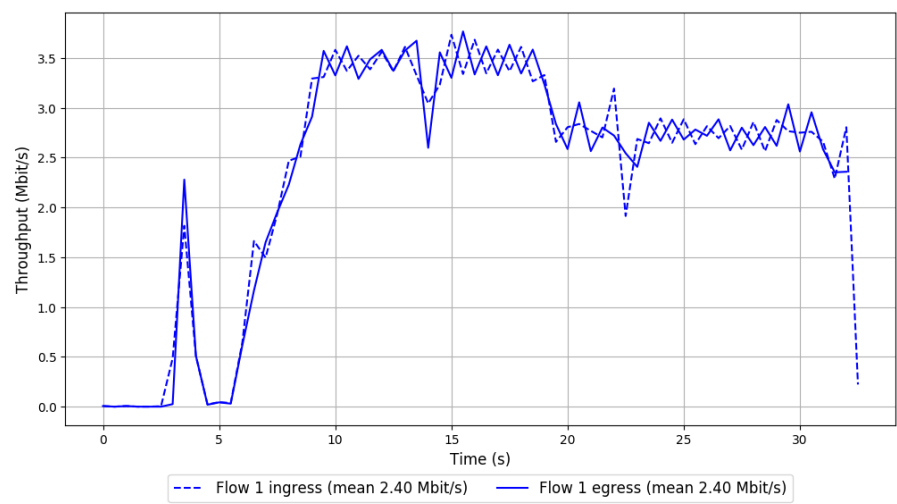


```
Run 2: Statistics of WebRTC media

Start at: 2018-02-15 22:25:00
End at: 2018-02-15 22:25:30

# Below is generated by plot.py at 2018-02-16 03:43:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 98.287 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 98.287 ms
Loss rate: 0.72%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-15 22:41:24

End at: 2018-02-15 22:41:54

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 93.762 ms

Loss rate: 0.92%

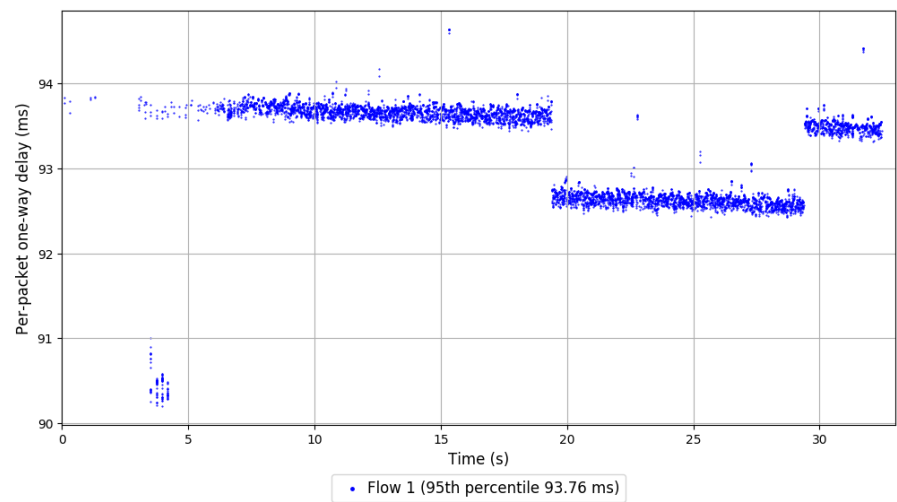
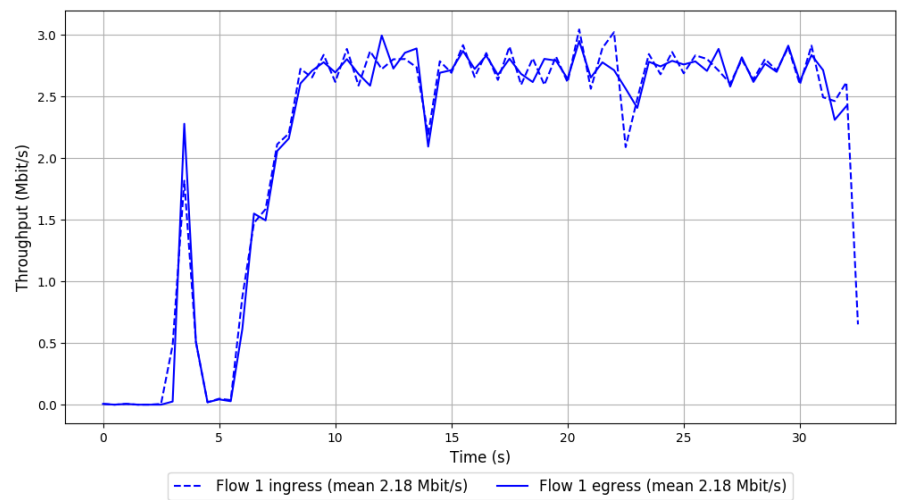
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 93.762 ms

Loss rate: 0.92%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-15 22:56:39

End at: 2018-02-15 22:57:09

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 93.542 ms

Loss rate: 0.81%

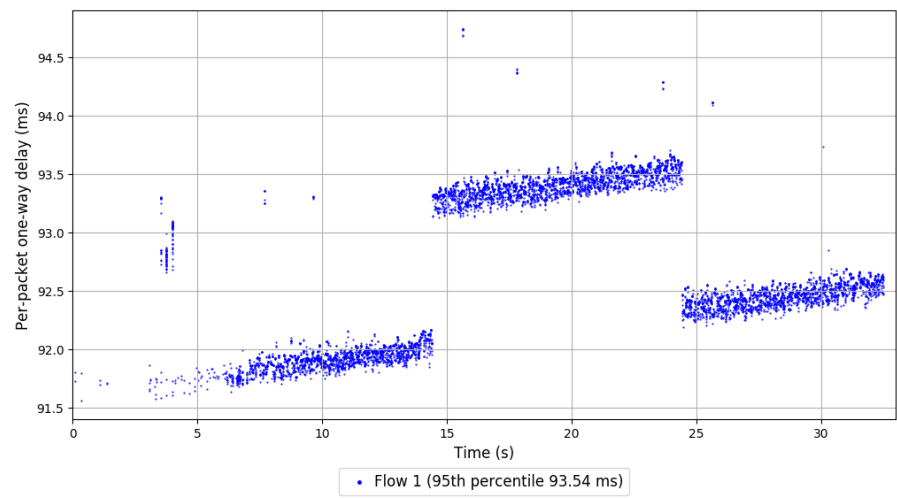
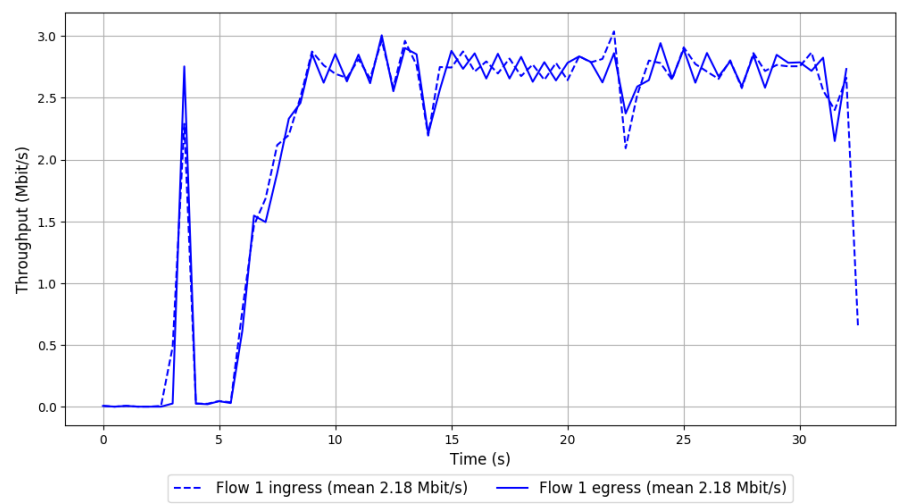
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 93.542 ms

Loss rate: 0.81%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-15 23:12:01

End at: 2018-02-15 23:12:31

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 102.623 ms

Loss rate: 0.85%

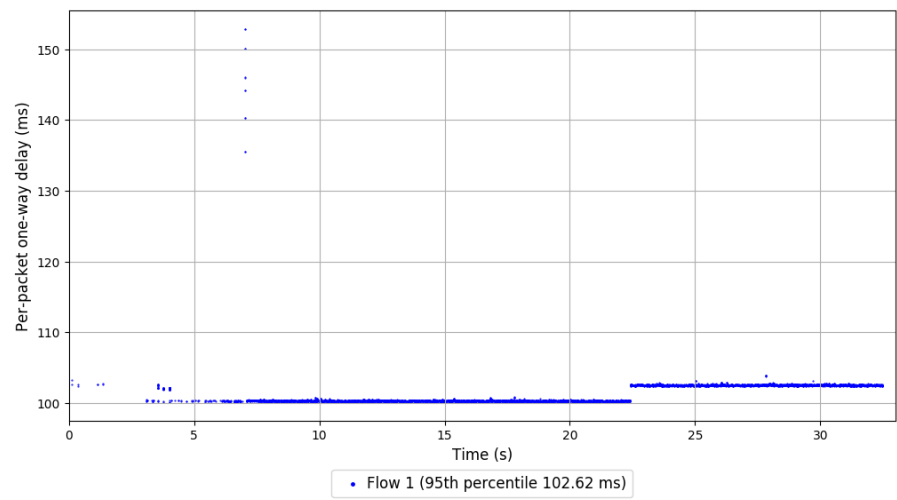
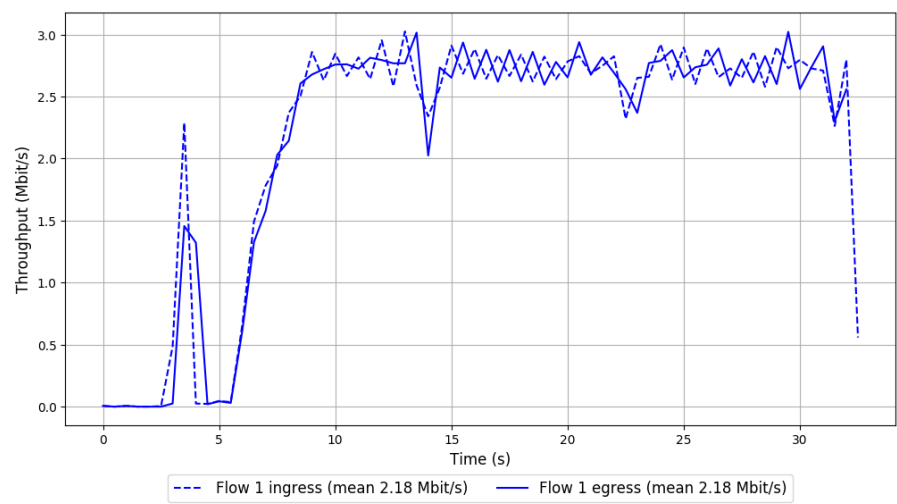
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 102.623 ms

Loss rate: 0.85%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-15 23:27:41

End at: 2018-02-15 23:28:11

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 98.981 ms

Loss rate: 0.93%

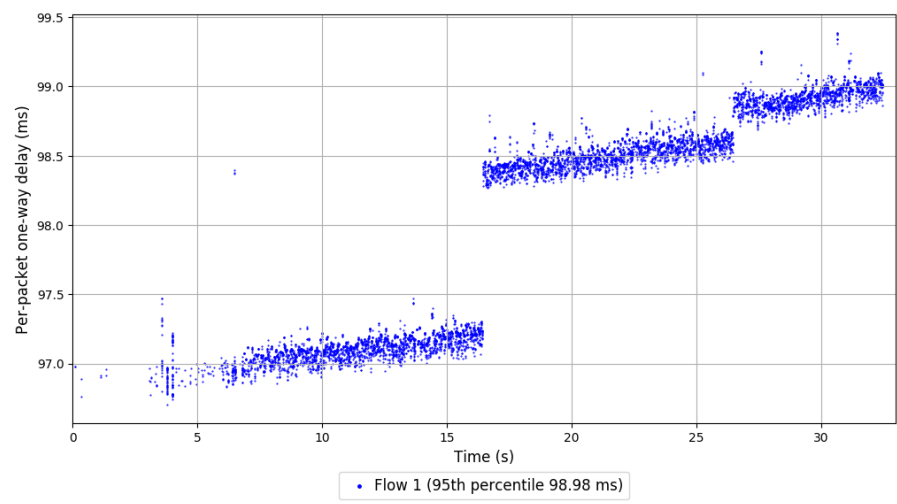
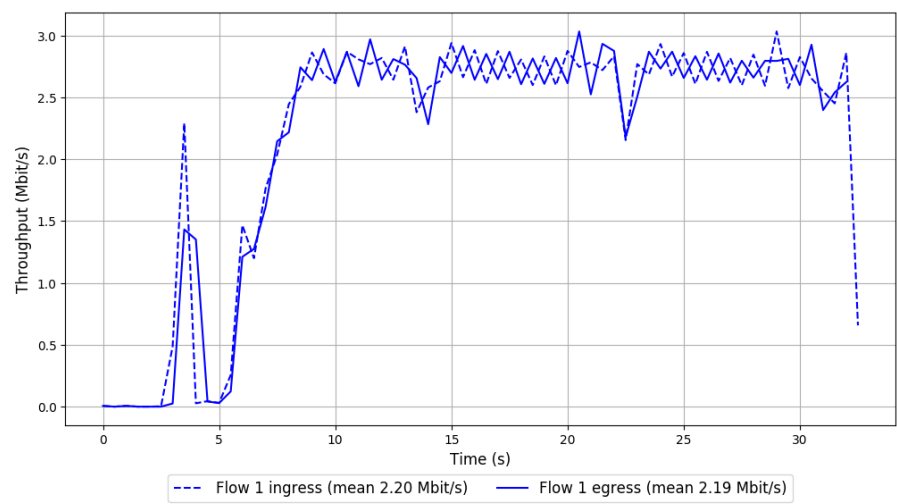
-- Flow 1:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 98.981 ms

Loss rate: 0.93%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-15 23:43:19

End at: 2018-02-15 23:43:49

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 107.440 ms

Loss rate: 0.93%

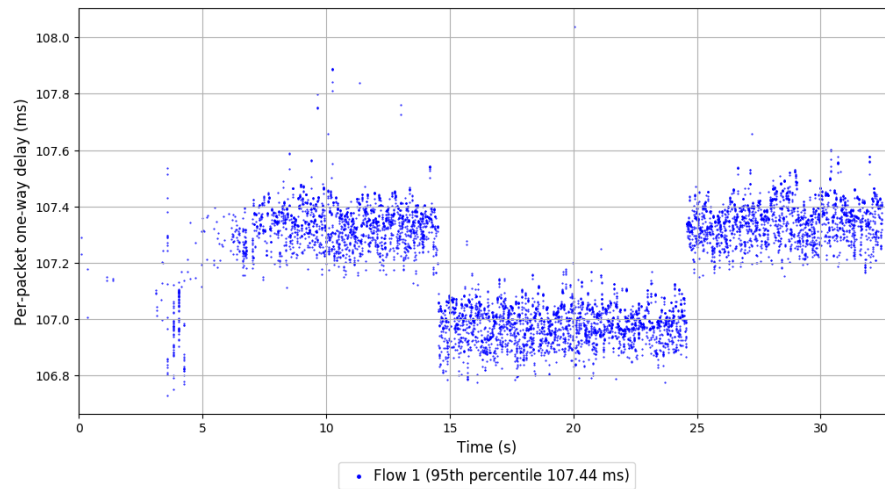
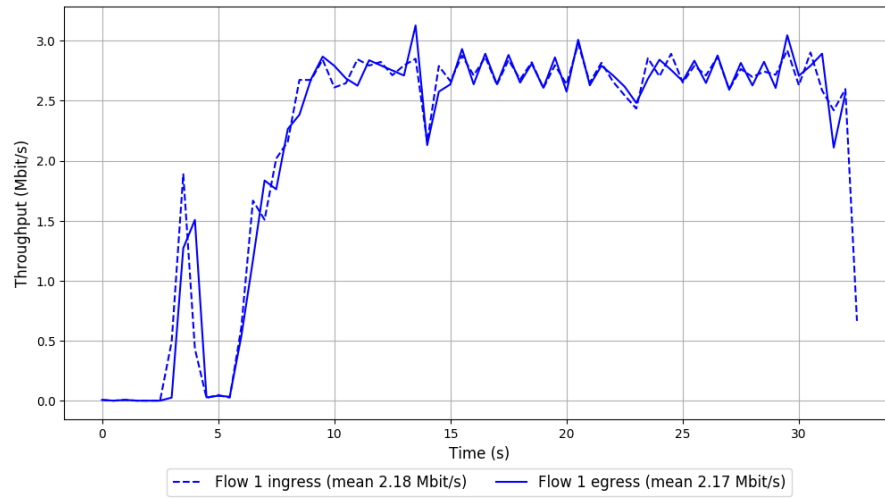
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 107.440 ms

Loss rate: 0.93%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-15 23:58:56

End at: 2018-02-15 23:59:26

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 106.252 ms

Loss rate: 0.93%

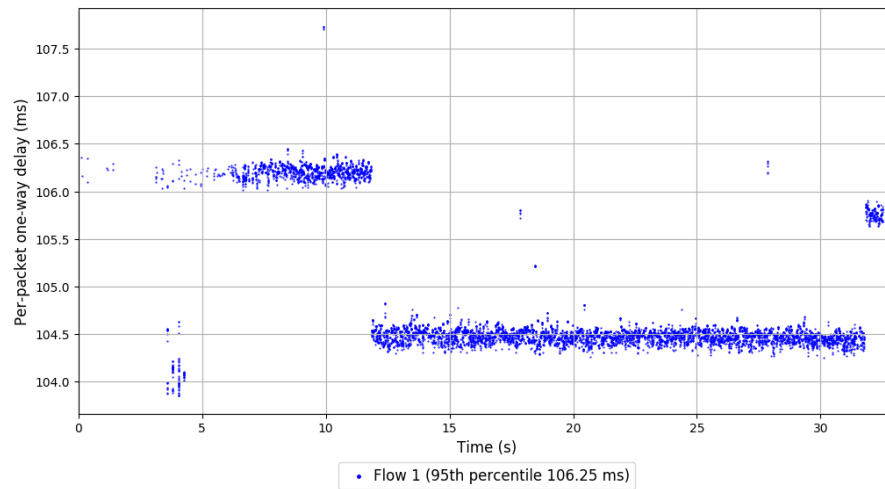
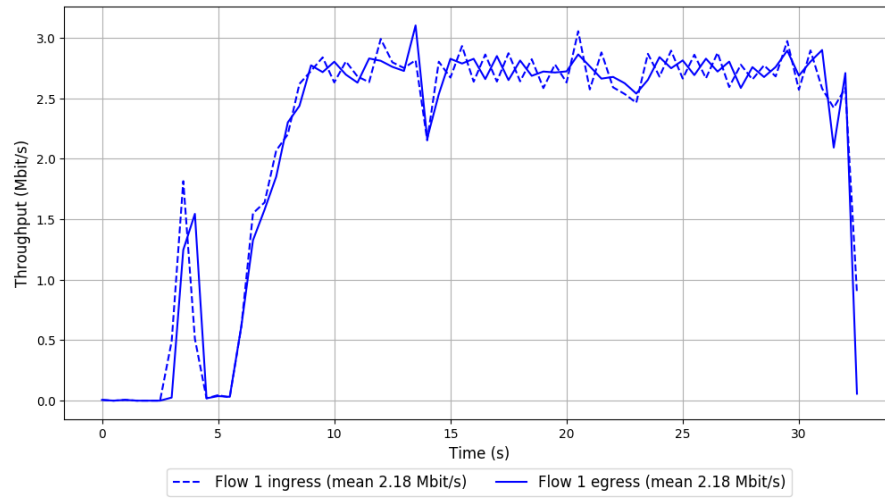
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 106.252 ms

Loss rate: 0.93%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-16 00:14:45

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

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 110.341 ms

Loss rate: 0.93%

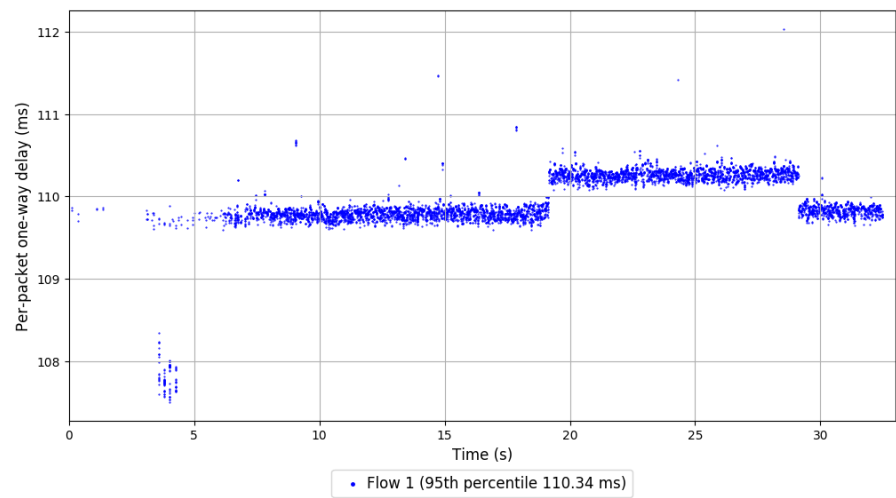
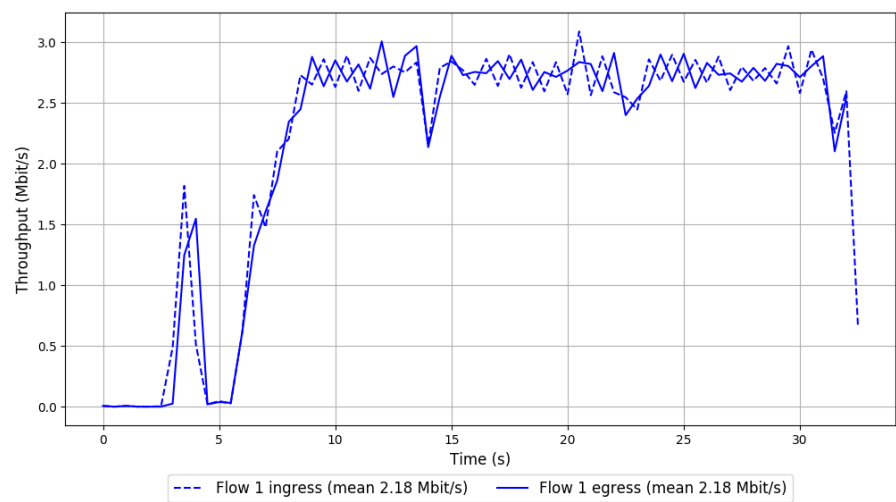
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 110.341 ms

Loss rate: 0.93%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-16 00:30:21

End at: 2018-02-16 00:30:51

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 110.621 ms

Loss rate: 0.88%

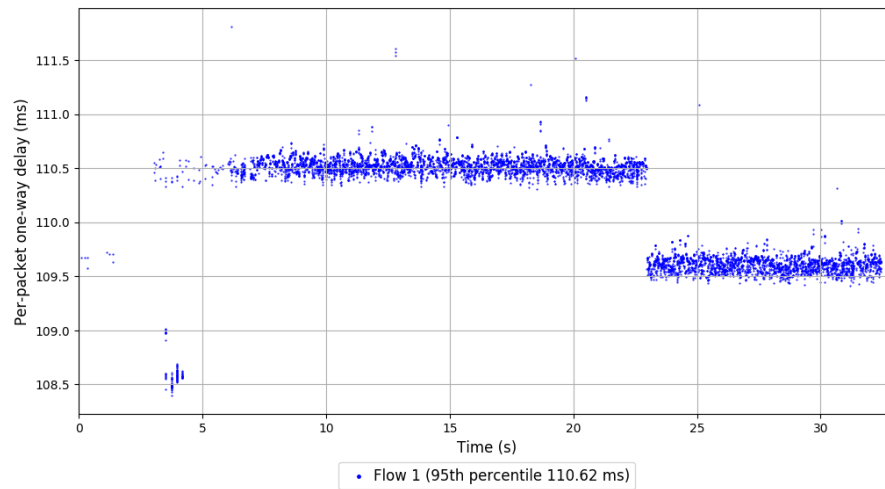
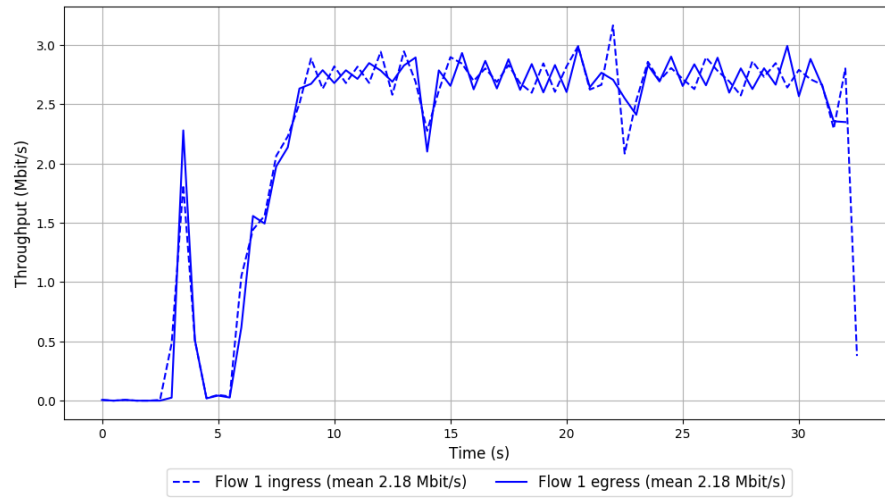
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 110.621 ms

Loss rate: 0.88%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-15 22:08:42

End at: 2018-02-15 22:09:12

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.66 Mbit/s

95th percentile per-packet one-way delay: 103.549 ms

Loss rate: 0.58%

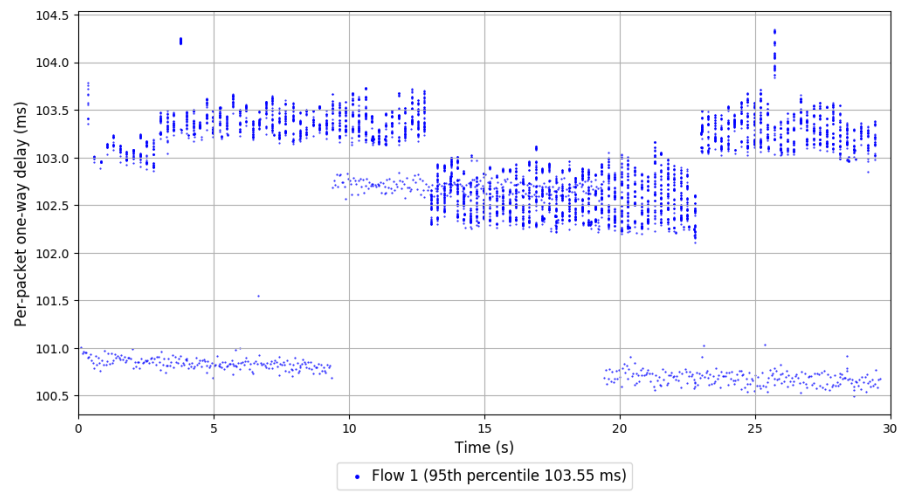
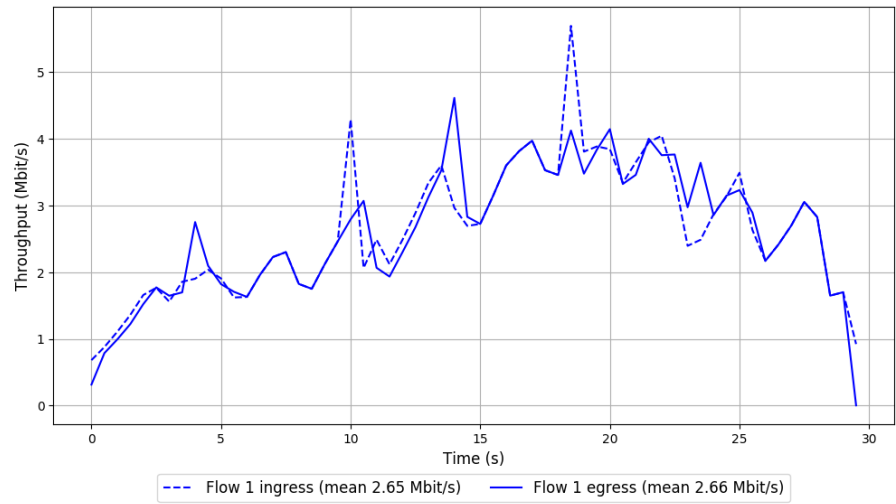
-- Flow 1:

Average throughput: 2.66 Mbit/s

95th percentile per-packet one-way delay: 103.549 ms

Loss rate: 0.58%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-15 22:25:41

End at: 2018-02-15 22:26:11

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.57 Mbit/s

95th percentile per-packet one-way delay: 98.704 ms

Loss rate: 0.00%

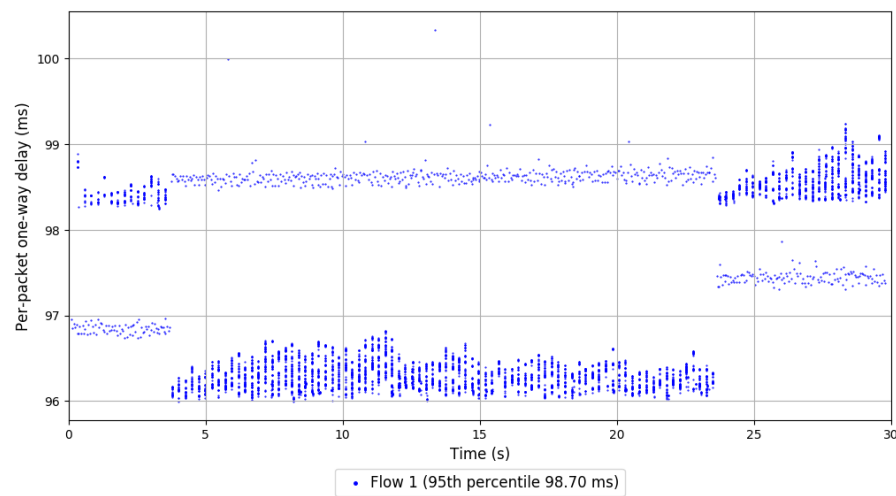
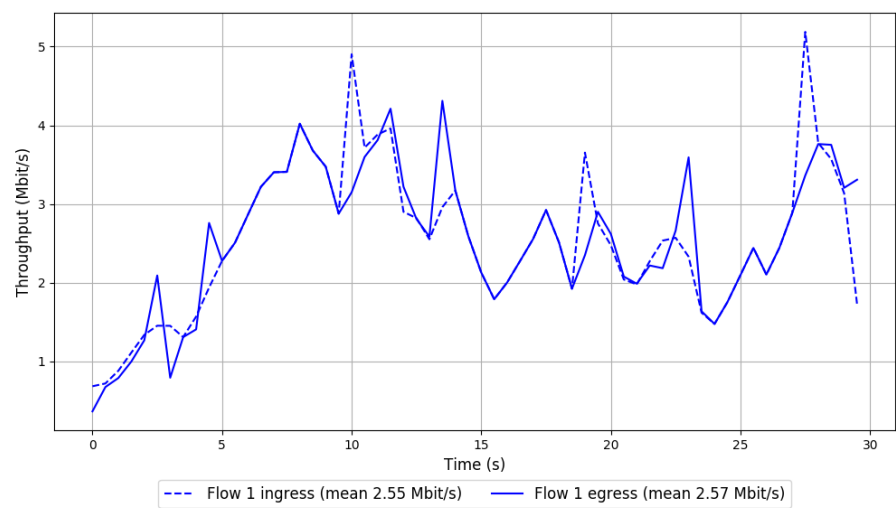
-- Flow 1:

Average throughput: 2.57 Mbit/s

95th percentile per-packet one-way delay: 98.704 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-15 22:42:05

End at: 2018-02-15 22:42:35

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.06 Mbit/s

95th percentile per-packet one-way delay: 93.801 ms

Loss rate: 1.08%

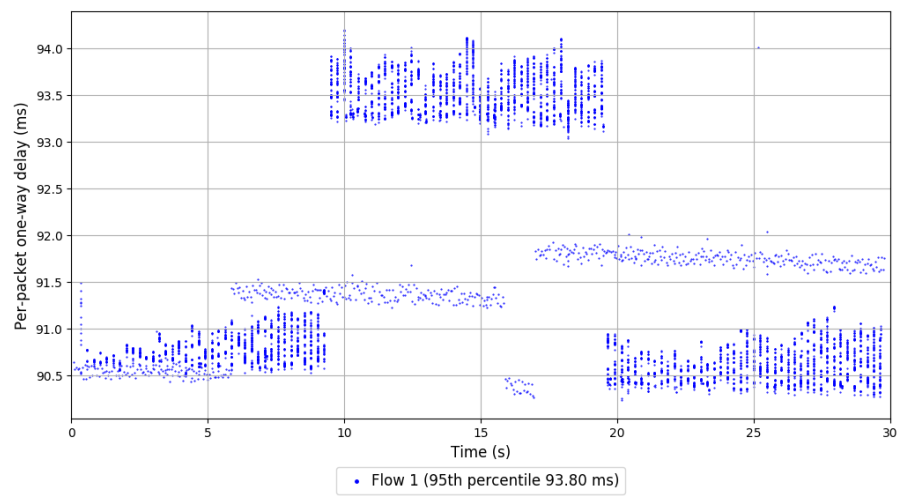
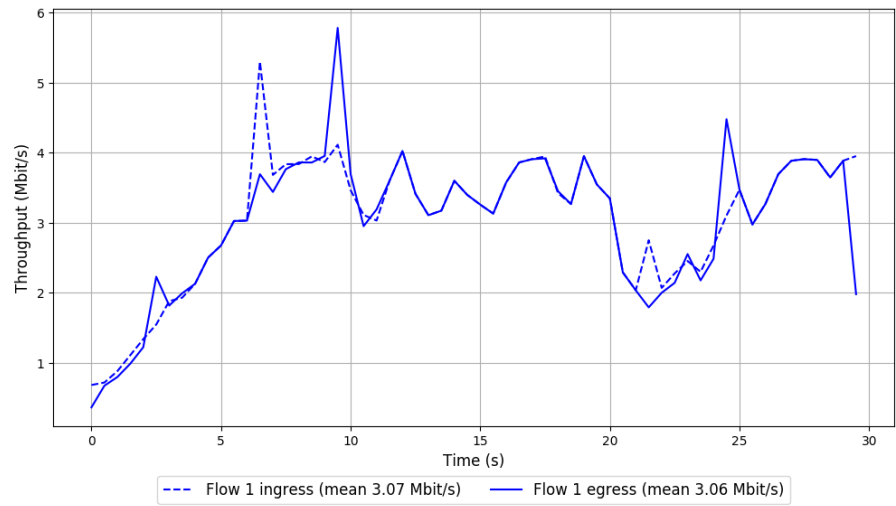
-- Flow 1:

Average throughput: 3.06 Mbit/s

95th percentile per-packet one-way delay: 93.801 ms

Loss rate: 1.08%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-15 22:57:20

End at: 2018-02-15 22:57:50

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.63 Mbit/s

95th percentile per-packet one-way delay: 95.078 ms

Loss rate: 0.58%

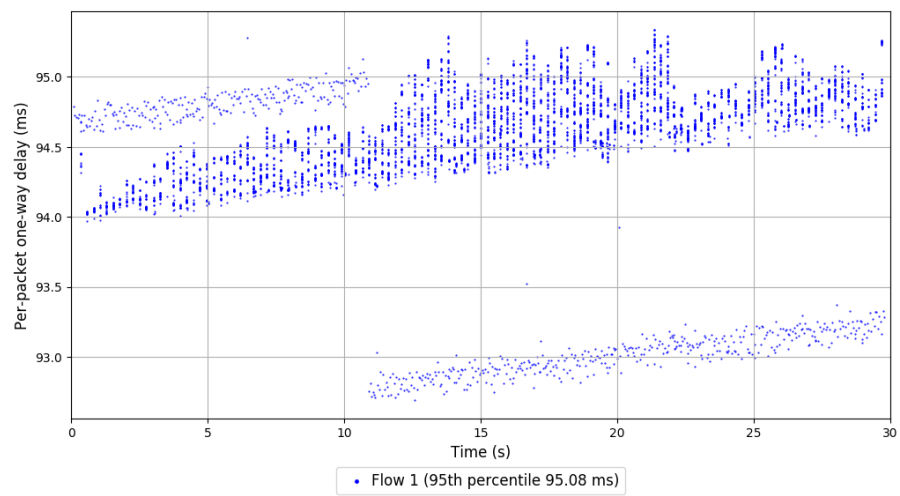
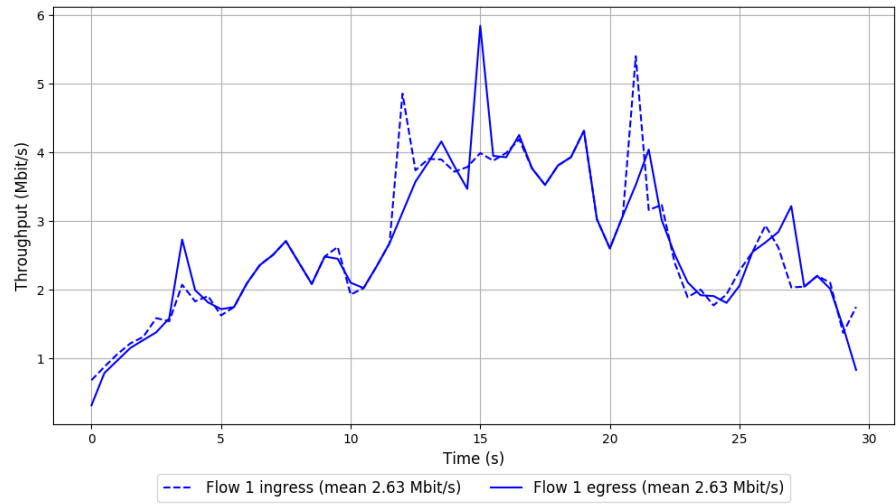
-- Flow 1:

Average throughput: 2.63 Mbit/s

95th percentile per-packet one-way delay: 95.078 ms

Loss rate: 0.58%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-15 23:12:42

End at: 2018-02-15 23:13:12

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.63 Mbit/s

95th percentile per-packet one-way delay: 102.593 ms

Loss rate: 1.04%

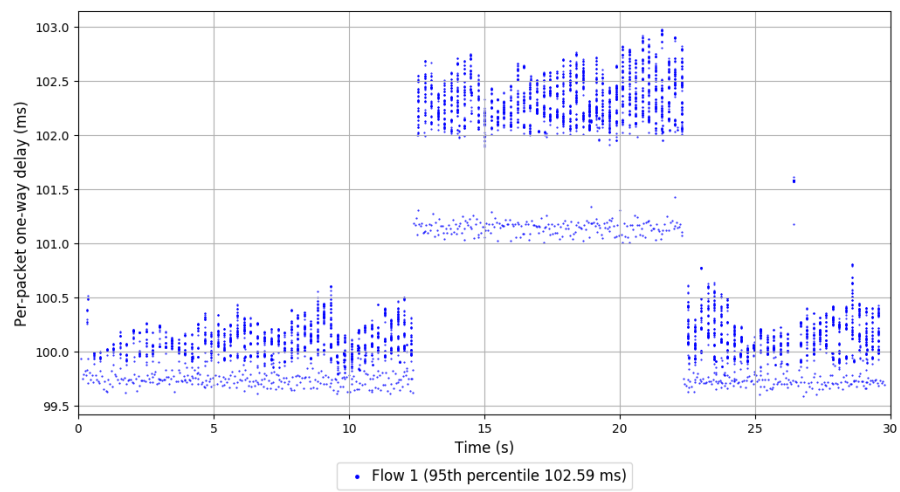
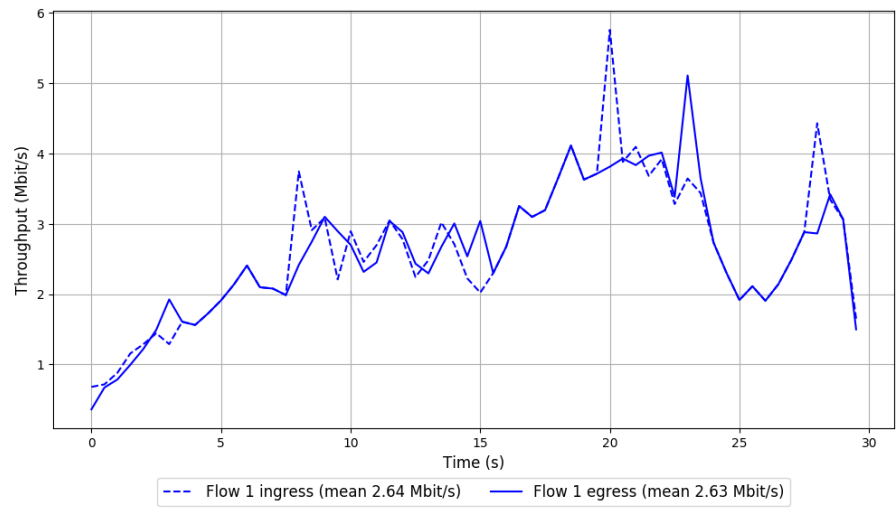
-- Flow 1:

Average throughput: 2.63 Mbit/s

95th percentile per-packet one-way delay: 102.593 ms

Loss rate: 1.04%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-15 23:28:22

End at: 2018-02-15 23:28:52

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.77 Mbit/s

95th percentile per-packet one-way delay: 100.709 ms

Loss rate: 1.07%

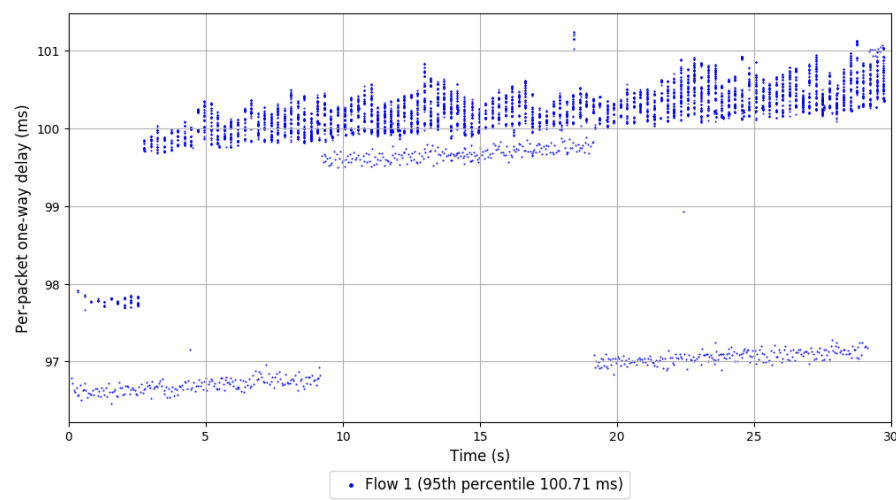
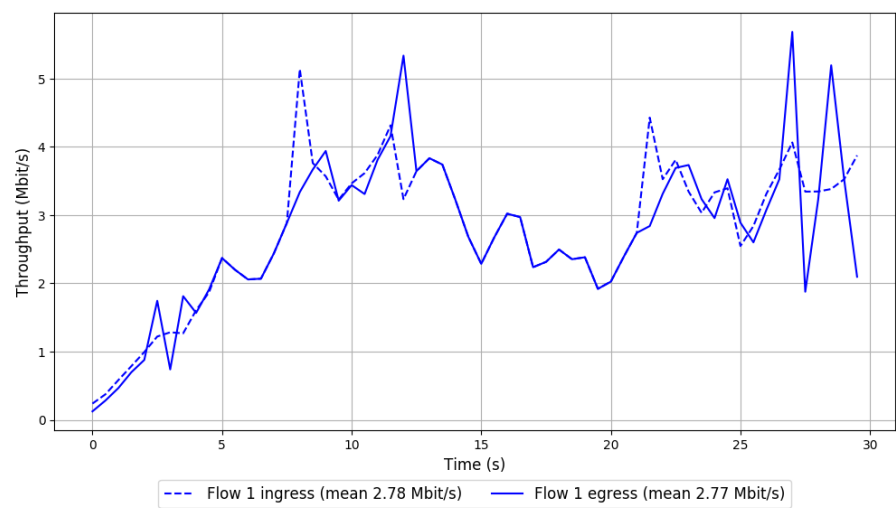
-- Flow 1:

Average throughput: 2.77 Mbit/s

95th percentile per-packet one-way delay: 100.709 ms

Loss rate: 1.07%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-15 23:44:00

End at: 2018-02-15 23:44:30

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.94 Mbit/s

95th percentile per-packet one-way delay: 107.407 ms

Loss rate: 0.65%

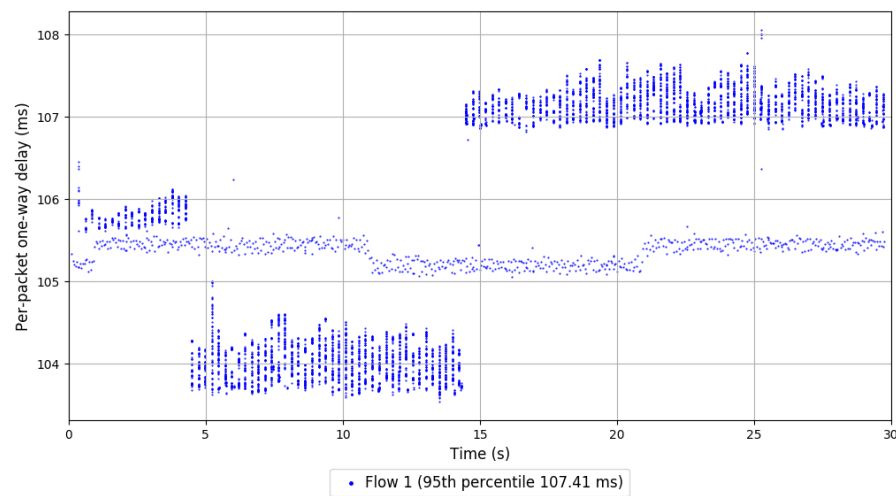
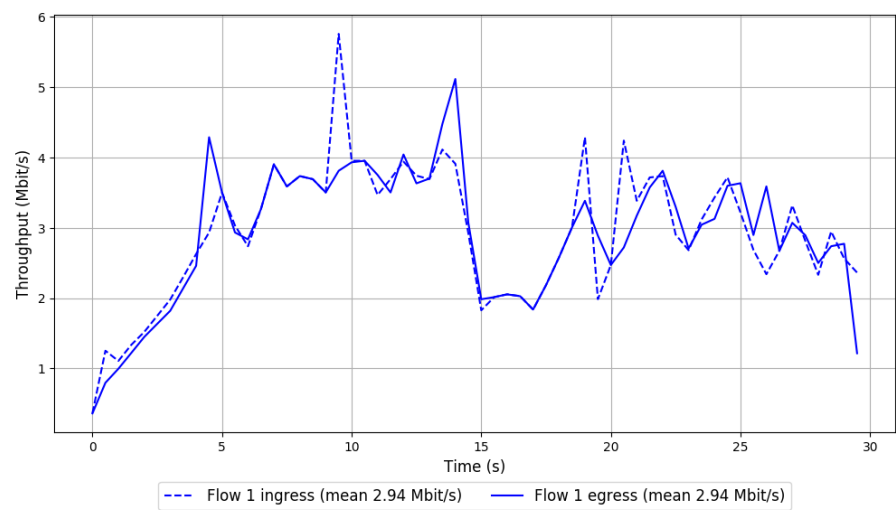
-- Flow 1:

Average throughput: 2.94 Mbit/s

95th percentile per-packet one-way delay: 107.407 ms

Loss rate: 0.65%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-15 23:59:37

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

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.84 Mbit/s

95th percentile per-packet one-way delay: 105.763 ms

Loss rate: 1.12%

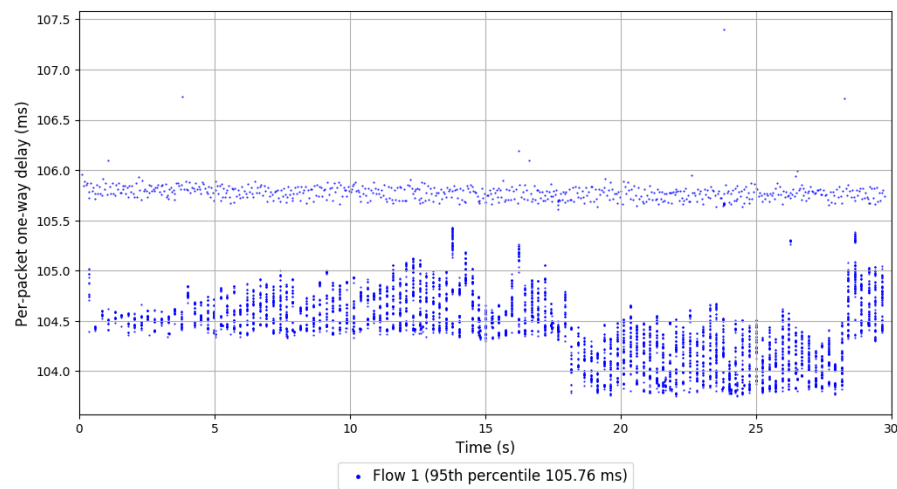
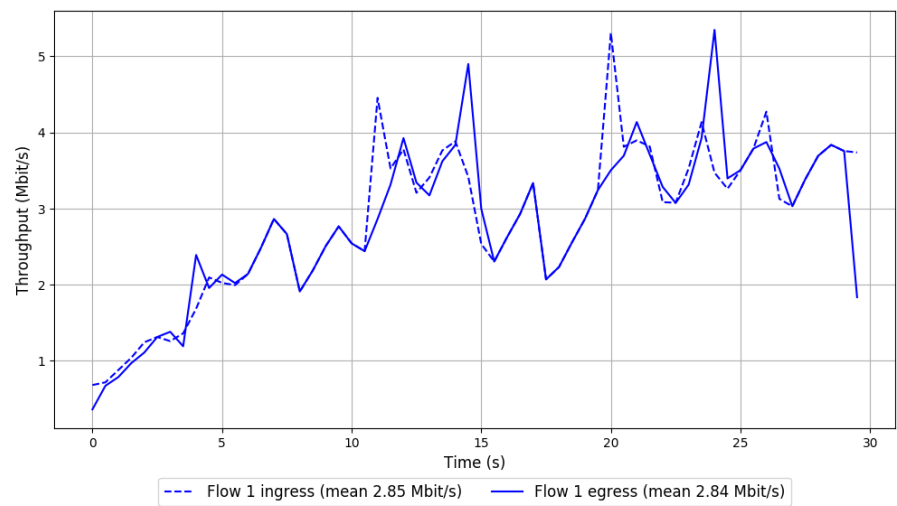
-- Flow 1:

Average throughput: 2.84 Mbit/s

95th percentile per-packet one-way delay: 105.763 ms

Loss rate: 1.12%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

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

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

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.96 Mbit/s

95th percentile per-packet one-way delay: 109.799 ms

Loss rate: 0.86%

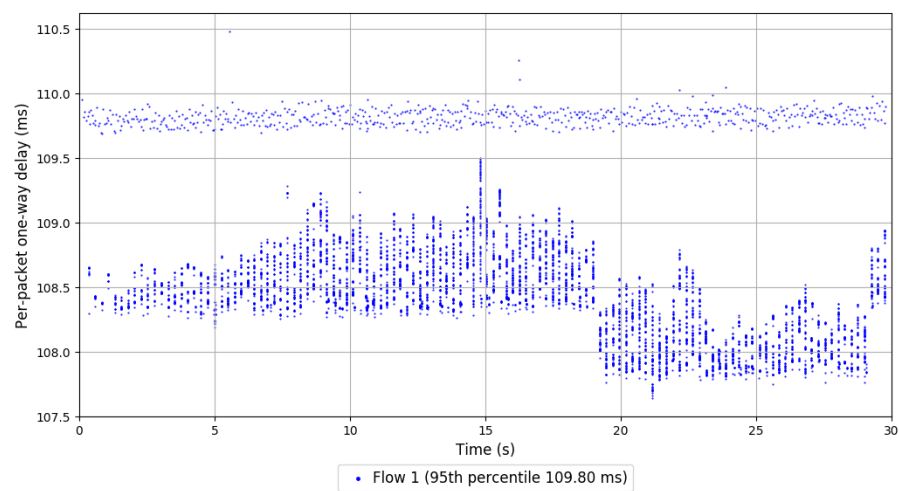
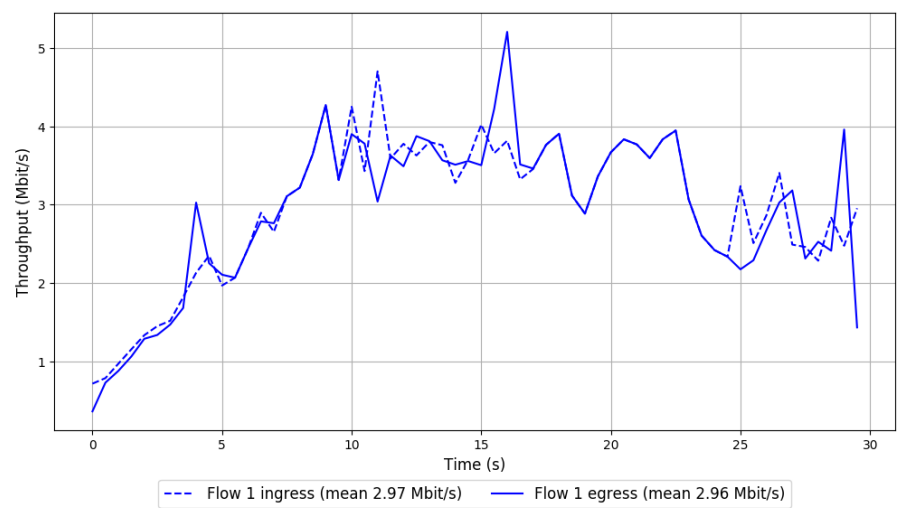
-- Flow 1:

Average throughput: 2.96 Mbit/s

95th percentile per-packet one-way delay: 109.799 ms

Loss rate: 0.86%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-16 00:31:02

End at: 2018-02-16 00:31:32

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.66 Mbit/s

95th percentile per-packet one-way delay: 112.150 ms

Loss rate: 0.36%

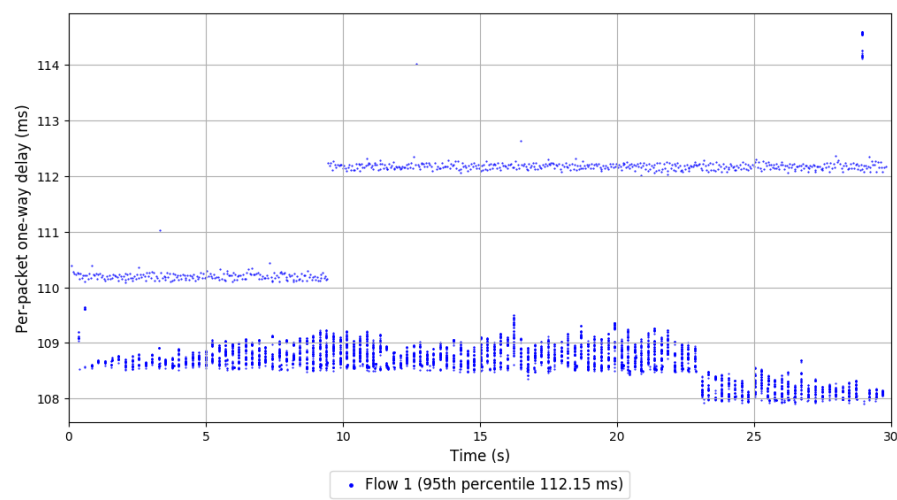
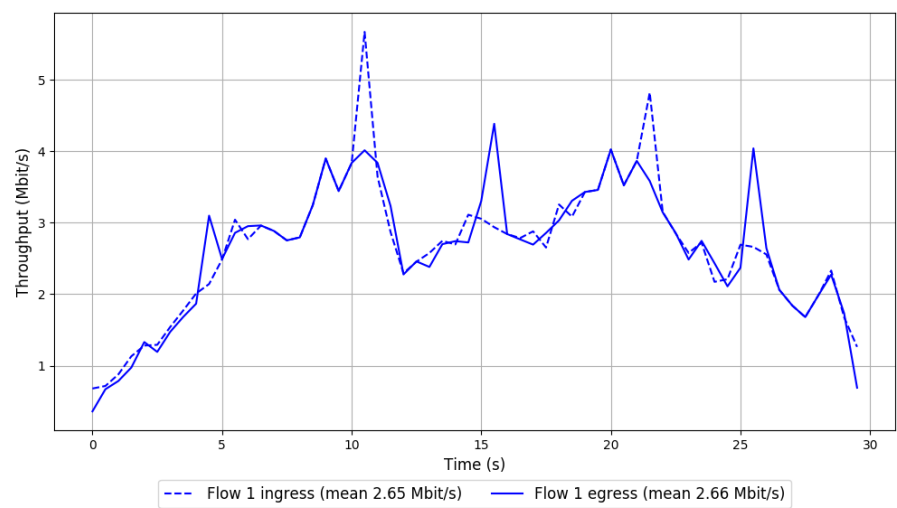
-- Flow 1:

Average throughput: 2.66 Mbit/s

95th percentile per-packet one-way delay: 112.150 ms

Loss rate: 0.36%

Run 10: Report of Sprout — Data Link

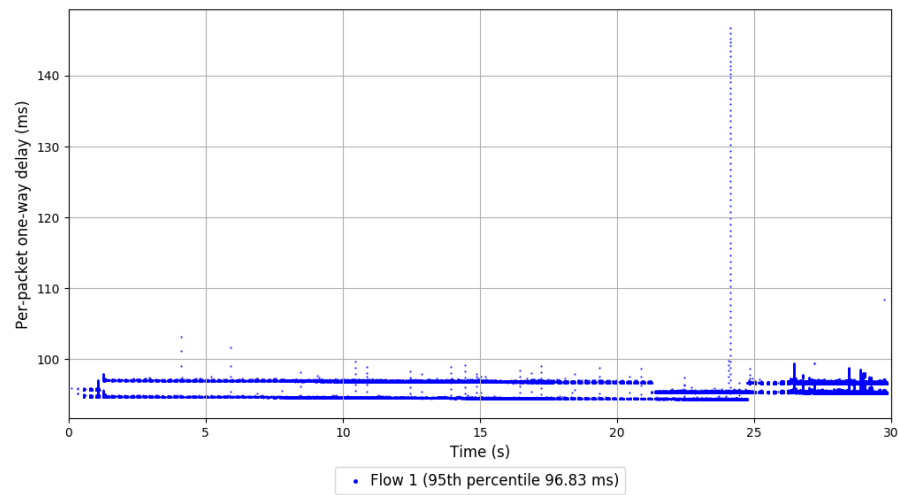
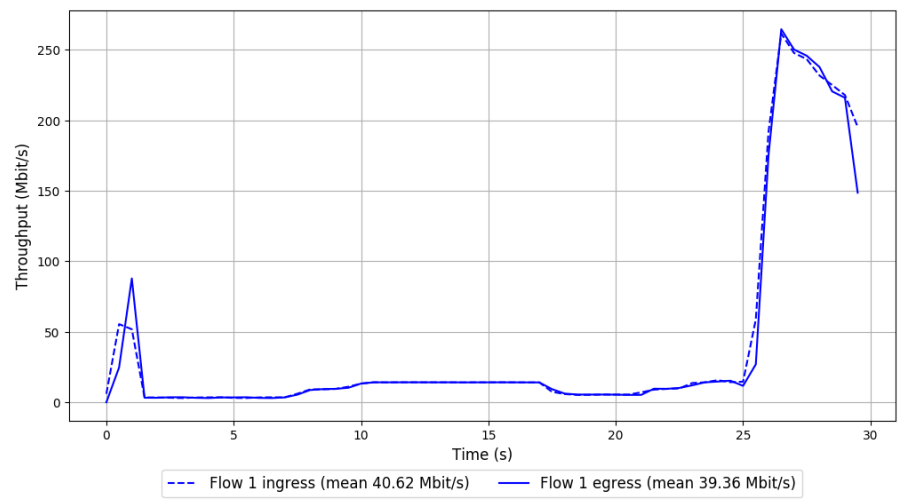


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-15 22:15:50
End at: 2018-02-15 22:16:20

# Below is generated by plot.py at 2018-02-16 03:43:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 39.36 Mbit/s
95th percentile per-packet one-way delay: 96.828 ms
Loss rate: 3.82%
-- Flow 1:
Average throughput: 39.36 Mbit/s
95th percentile per-packet one-way delay: 96.828 ms
Loss rate: 3.82%
```

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

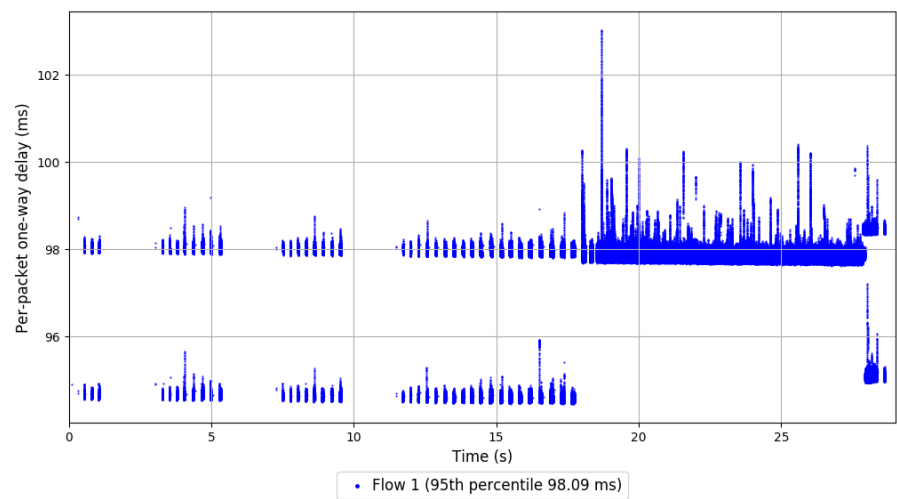
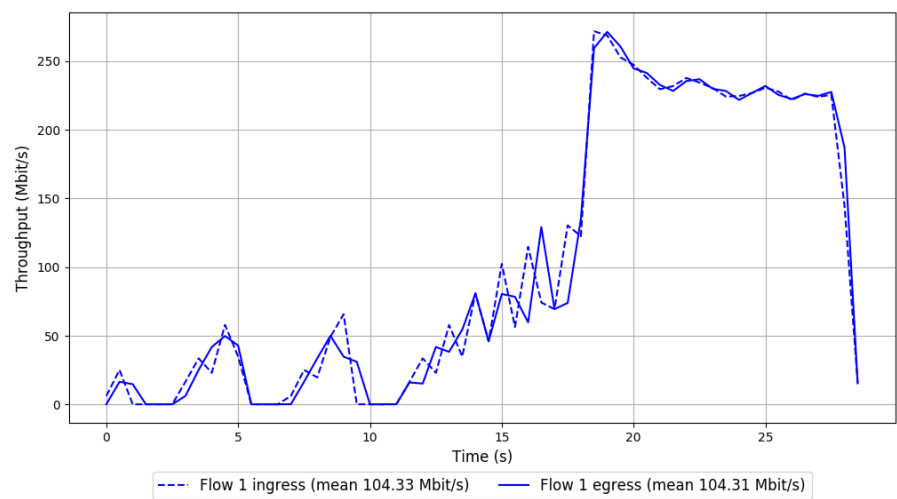


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-15 22:32:47
End at: 2018-02-15 22:33:17

# Below is generated by plot.py at 2018-02-16 03:43:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 104.31 Mbit/s
95th percentile per-packet one-way delay: 98.093 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 104.31 Mbit/s
95th percentile per-packet one-way delay: 98.093 ms
Loss rate: 0.00%
```

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

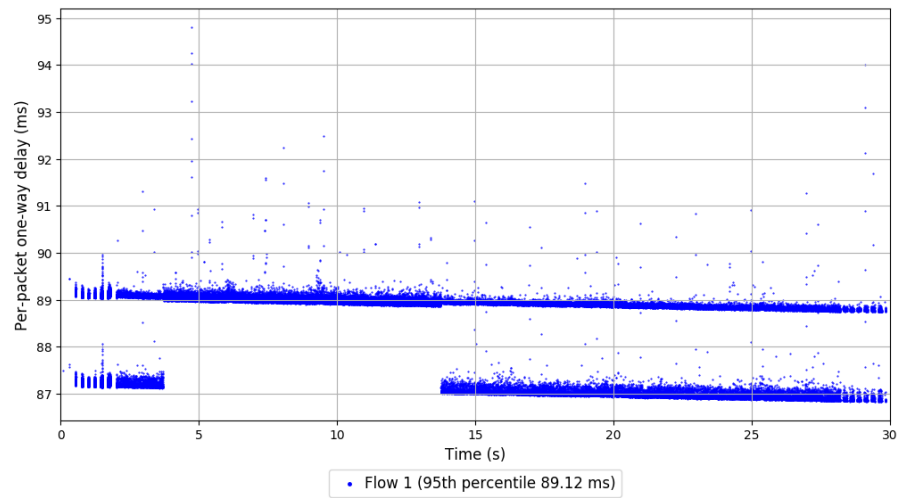
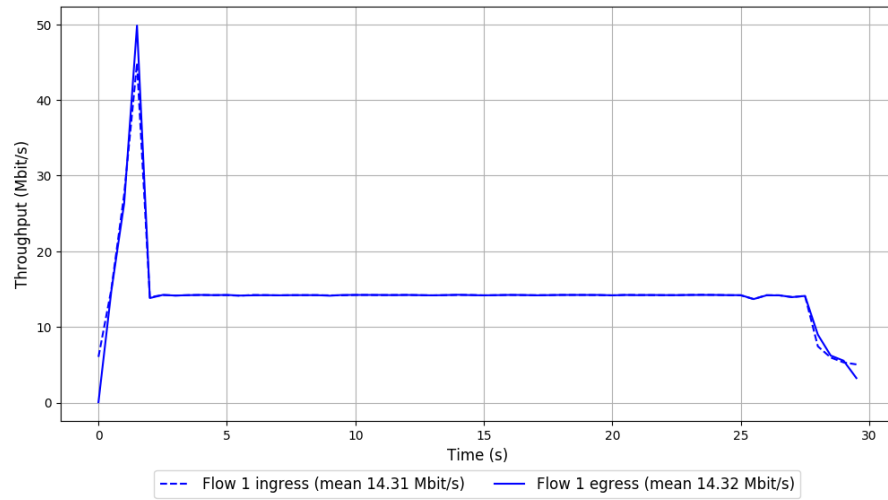


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-02-15 22:48:17
End at: 2018-02-15 22:48:47

# Below is generated by plot.py at 2018-02-16 03:43:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 14.32 Mbit/s
95th percentile per-packet one-way delay: 89.117 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 14.32 Mbit/s
95th percentile per-packet one-way delay: 89.117 ms
Loss rate: 0.27%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-02-15 23:03:31

End at: 2018-02-15 23:04:01

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.64 Mbit/s

95th percentile per-packet one-way delay: 100.764 ms

Loss rate: 0.84%

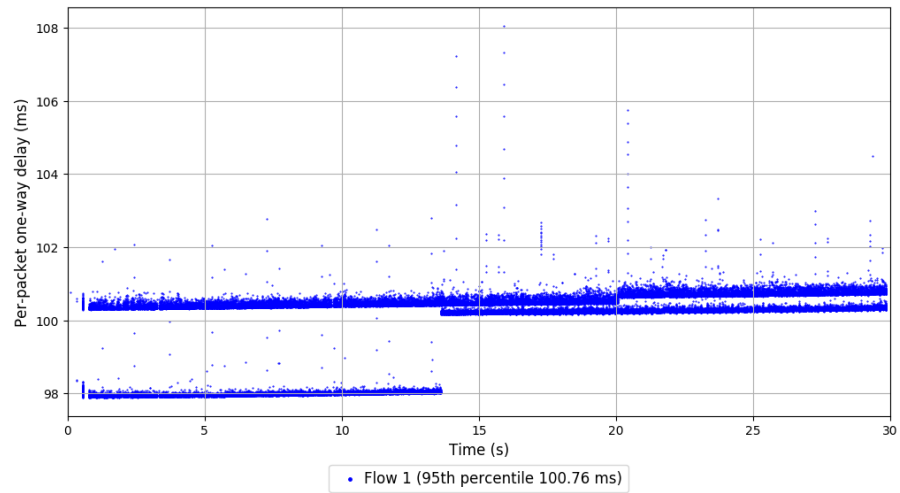
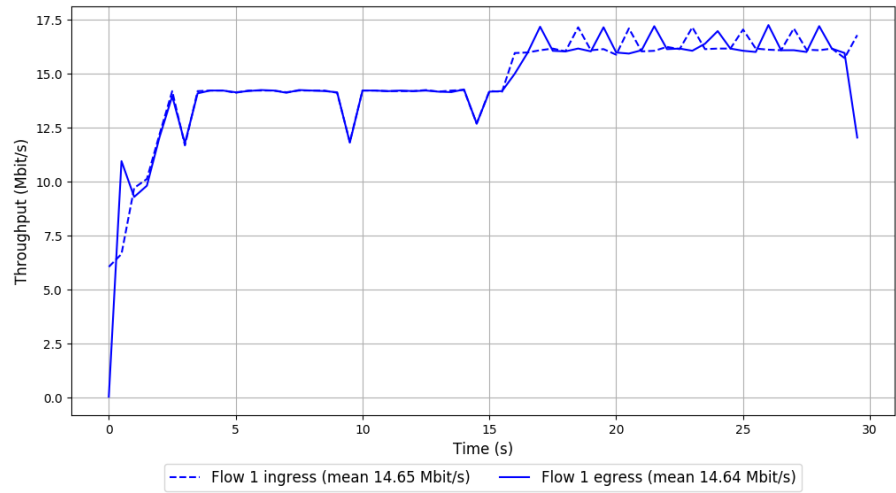
-- Flow 1:

Average throughput: 14.64 Mbit/s

95th percentile per-packet one-way delay: 100.764 ms

Loss rate: 0.84%

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

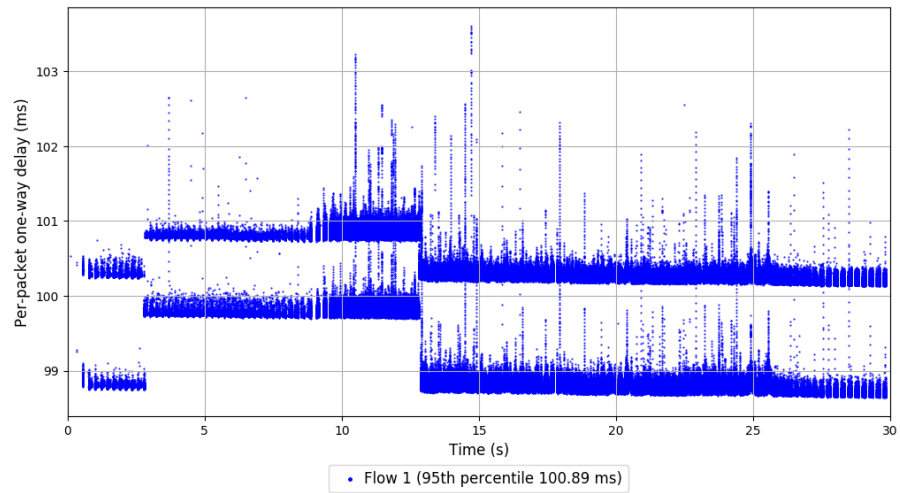
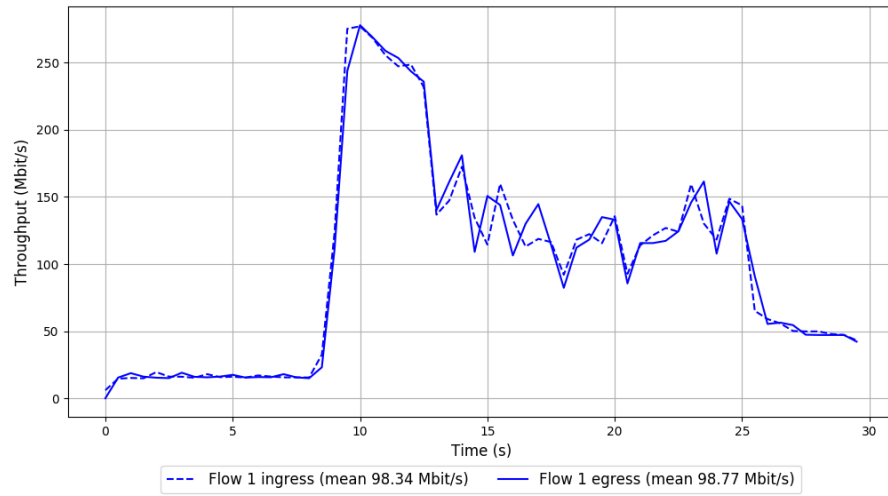


```
Run 5: Statistics of TaoVA-100x

Start at: 2018-02-15 23:19:02
End at: 2018-02-15 23:19:32

# Below is generated by plot.py at 2018-02-16 03:43:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 98.77 Mbit/s
95th percentile per-packet one-way delay: 100.894 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 98.77 Mbit/s
95th percentile per-packet one-way delay: 100.894 ms
Loss rate: 0.32%
```

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-15 23:34:45

End at: 2018-02-15 23:35:15

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.62 Mbit/s

95th percentile per-packet one-way delay: 106.305 ms

Loss rate: 0.79%

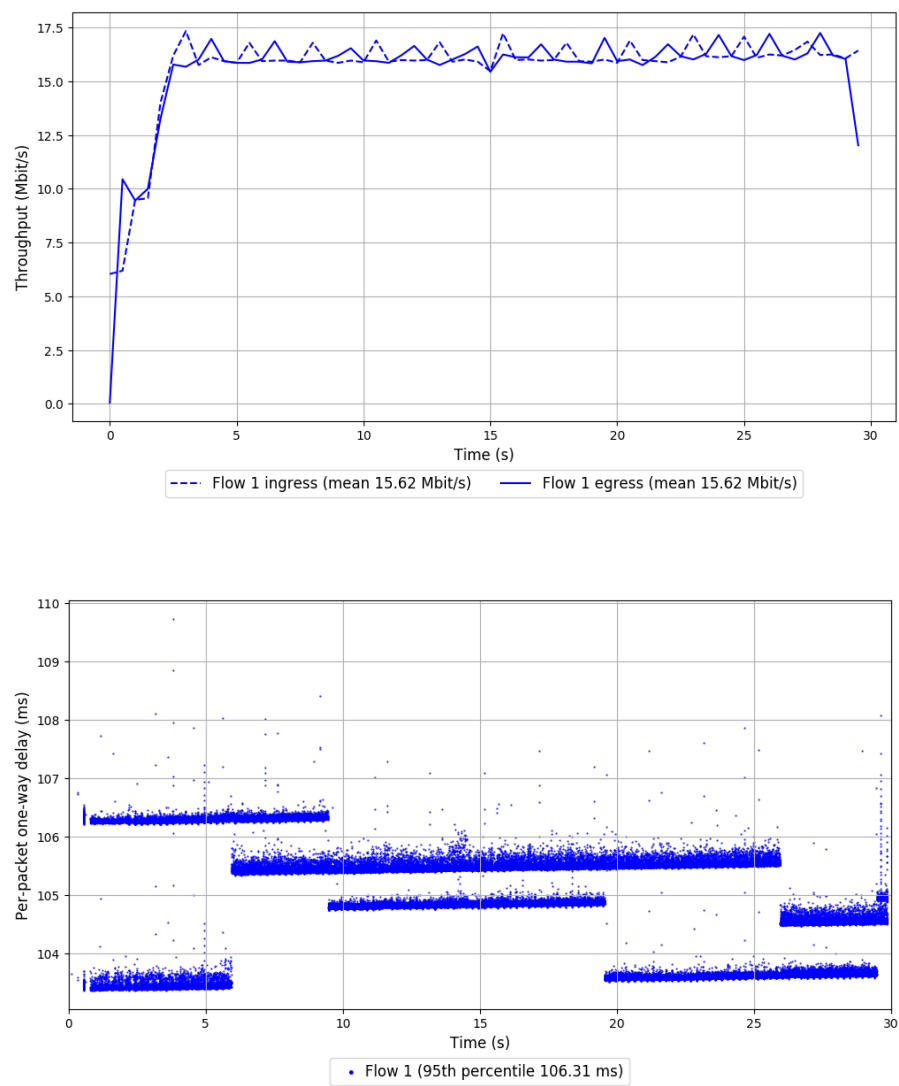
-- Flow 1:

Average throughput: 15.62 Mbit/s

95th percentile per-packet one-way delay: 106.305 ms

Loss rate: 0.79%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-15 23:50:21

End at: 2018-02-15 23:50:51

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.75 Mbit/s

95th percentile per-packet one-way delay: 106.691 ms

Loss rate: 0.35%

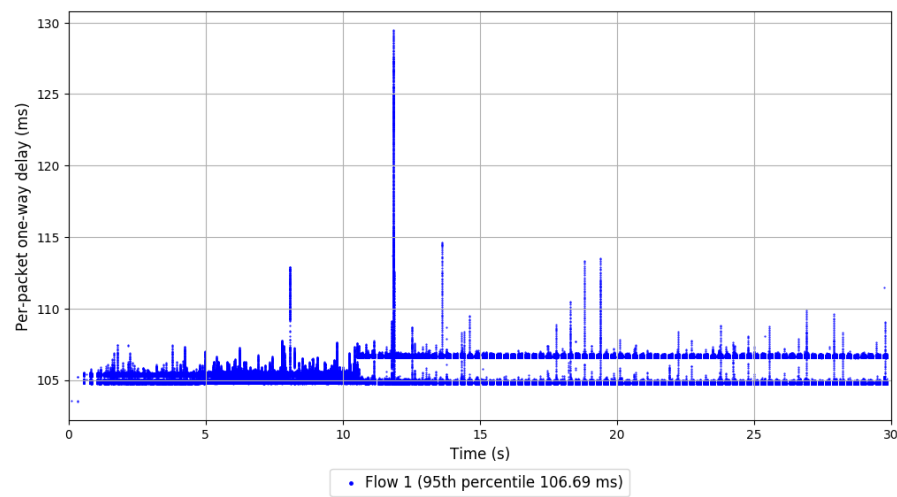
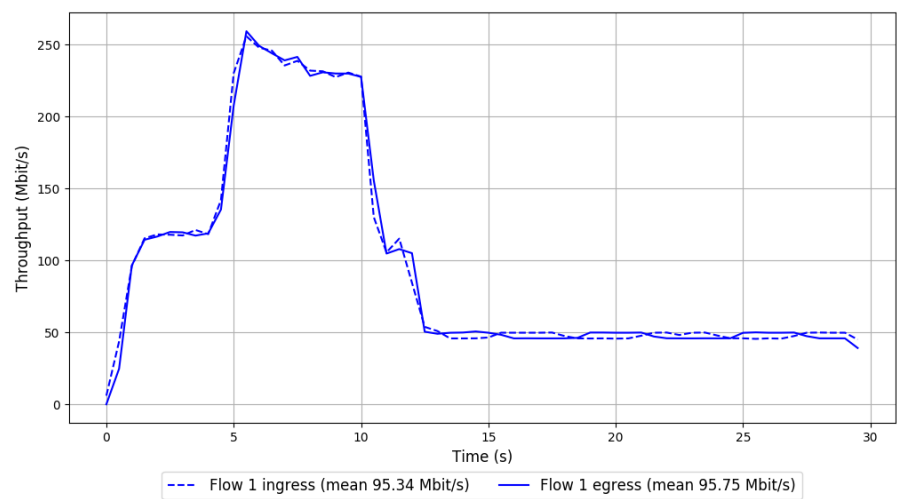
-- Flow 1:

Average throughput: 95.75 Mbit/s

95th percentile per-packet one-way delay: 106.691 ms

Loss rate: 0.35%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-16 00:05:55

End at: 2018-02-16 00:06:25

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.14 Mbit/s

95th percentile per-packet one-way delay: 106.369 ms

Loss rate: 0.43%

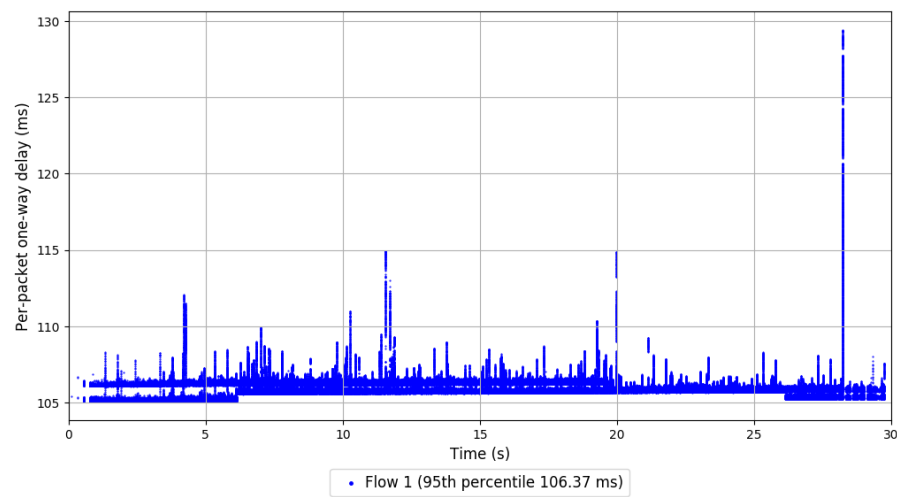
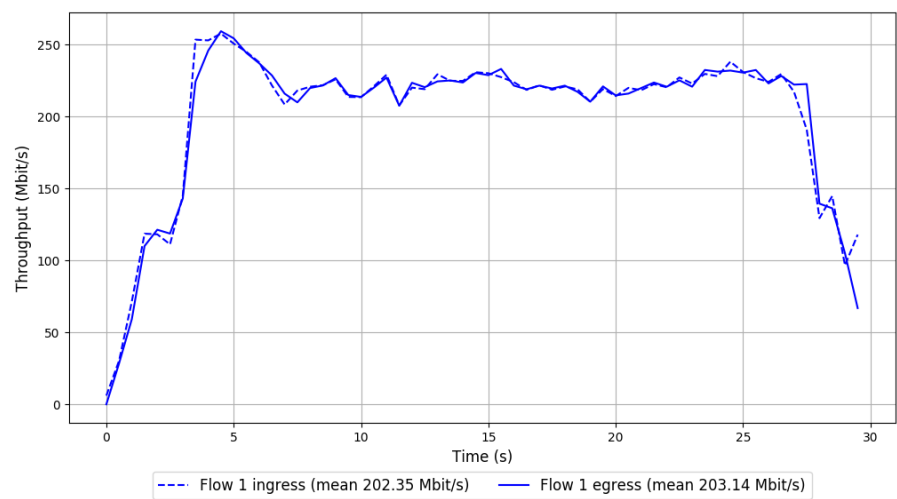
-- Flow 1:

Average throughput: 203.14 Mbit/s

95th percentile per-packet one-way delay: 106.369 ms

Loss rate: 0.43%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-16 00:21:45

End at: 2018-02-16 00:22:15

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.09 Mbit/s

95th percentile per-packet one-way delay: 110.150 ms

Loss rate: 0.76%

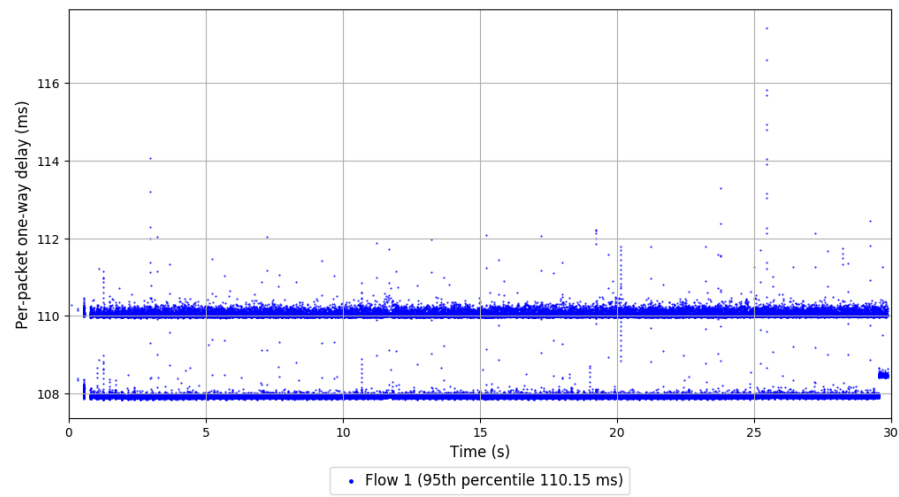
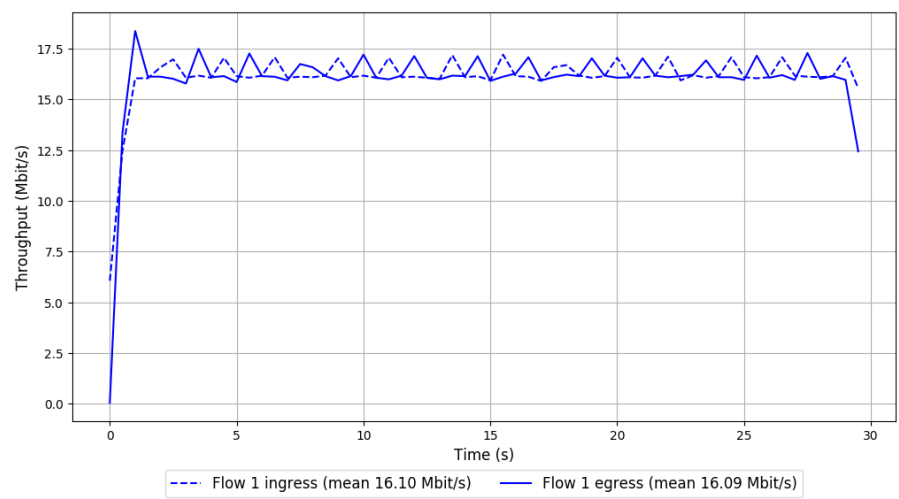
-- Flow 1:

Average throughput: 16.09 Mbit/s

95th percentile per-packet one-way delay: 110.150 ms

Loss rate: 0.76%

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

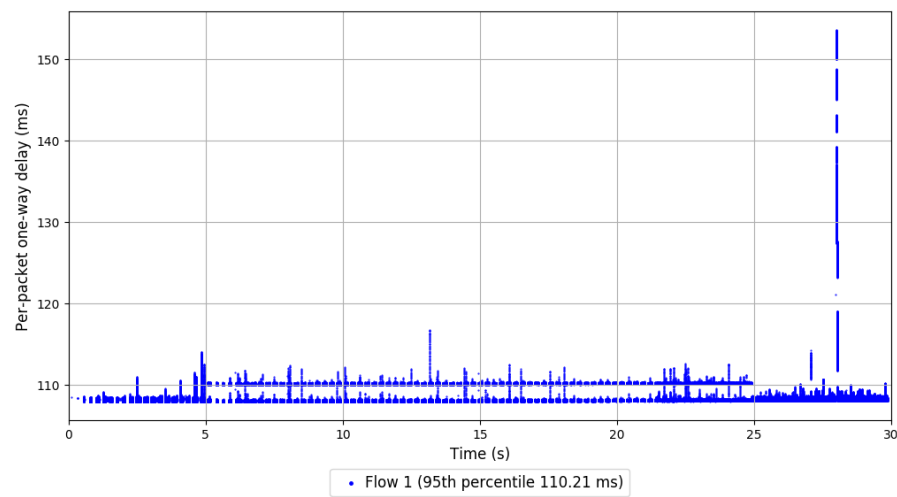
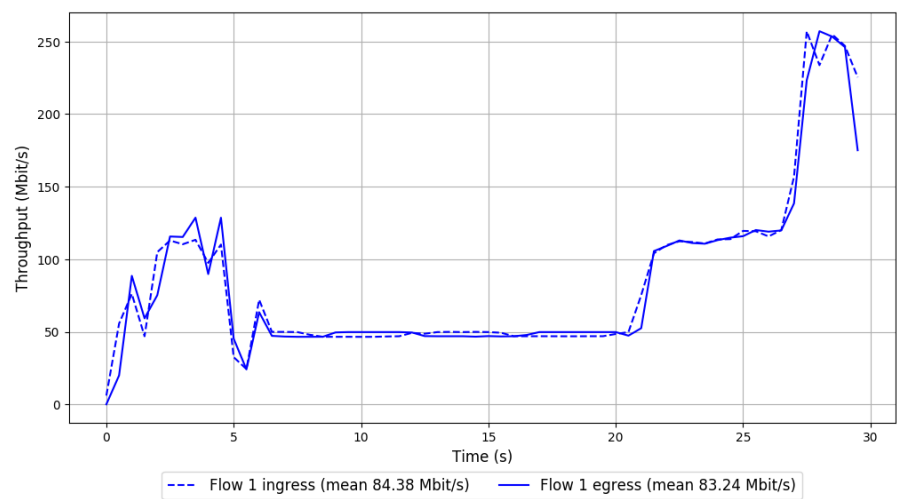


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-16 00:37:16
End at: 2018-02-16 00:37:46

# Below is generated by plot.py at 2018-02-16 03:43:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.24 Mbit/s
95th percentile per-packet one-way delay: 110.213 ms
Loss rate: 2.08%
-- Flow 1:
Average throughput: 83.24 Mbit/s
95th percentile per-packet one-way delay: 110.213 ms
Loss rate: 2.08%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-15 22:14:12

End at: 2018-02-15 22:14:42

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.36 Mbit/s

95th percentile per-packet one-way delay: 100.595 ms

Loss rate: 0.57%

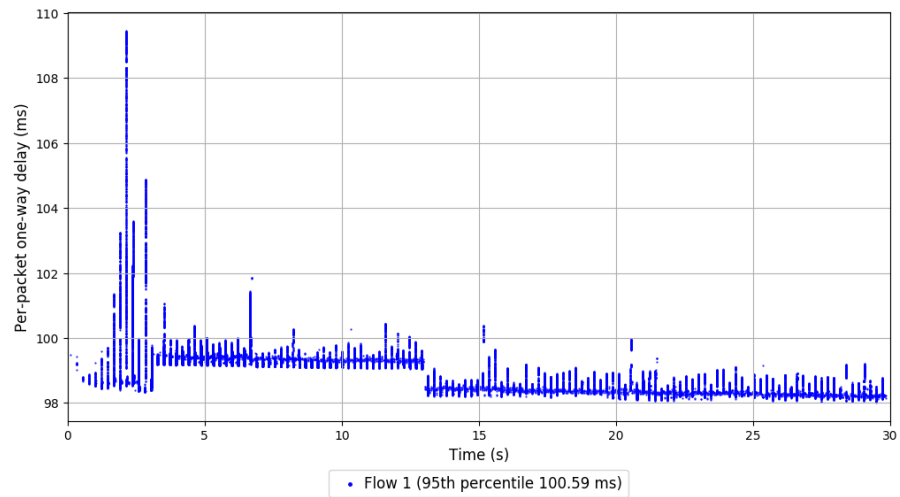
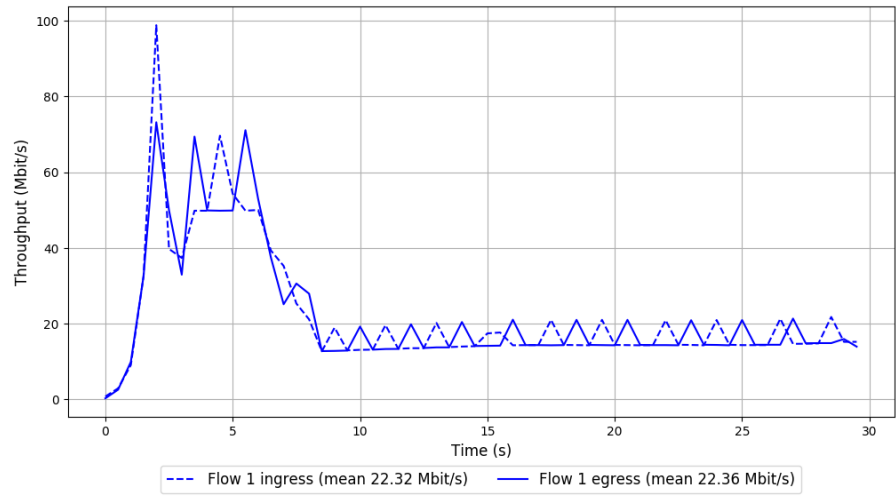
-- Flow 1:

Average throughput: 22.36 Mbit/s

95th percentile per-packet one-way delay: 100.595 ms

Loss rate: 0.57%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-15 22:31:17

End at: 2018-02-15 22:31:47

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.45 Mbit/s

95th percentile per-packet one-way delay: 98.075 ms

Loss rate: 0.68%

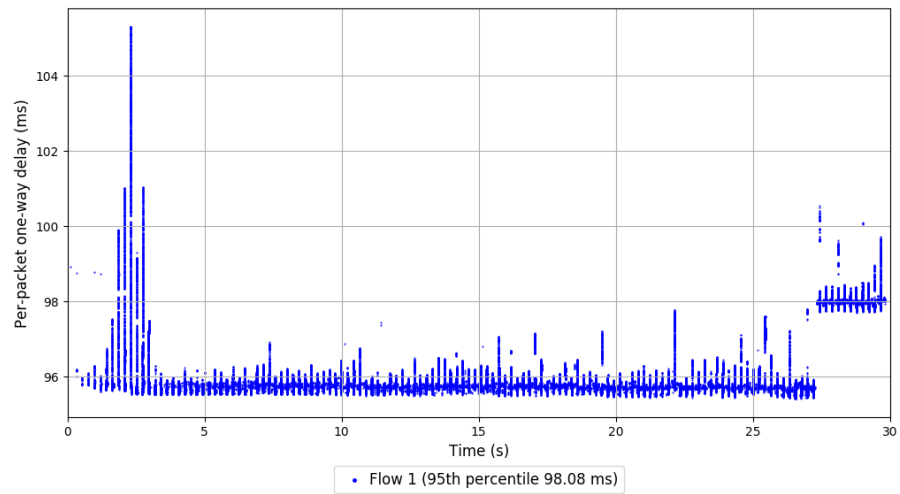
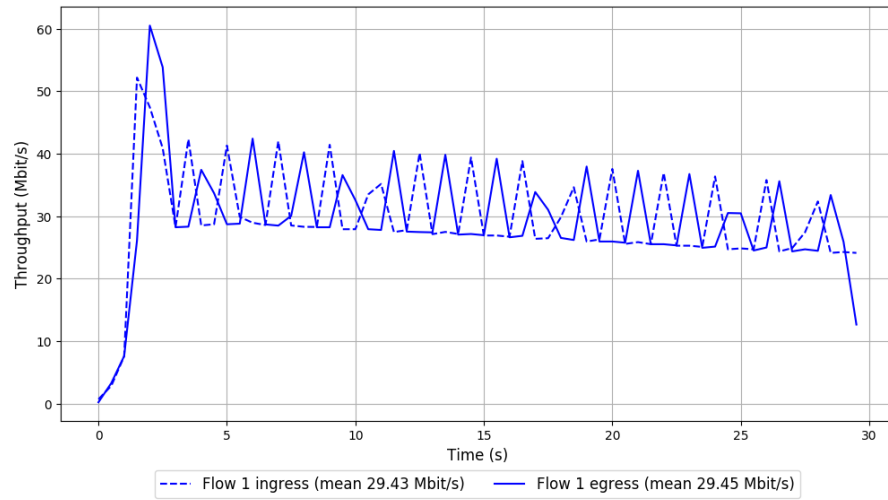
-- Flow 1:

Average throughput: 29.45 Mbit/s

95th percentile per-packet one-way delay: 98.075 ms

Loss rate: 0.68%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-15 22:46:48

End at: 2018-02-15 22:47:18

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.28 Mbit/s

95th percentile per-packet one-way delay: 91.224 ms

Loss rate: 0.81%

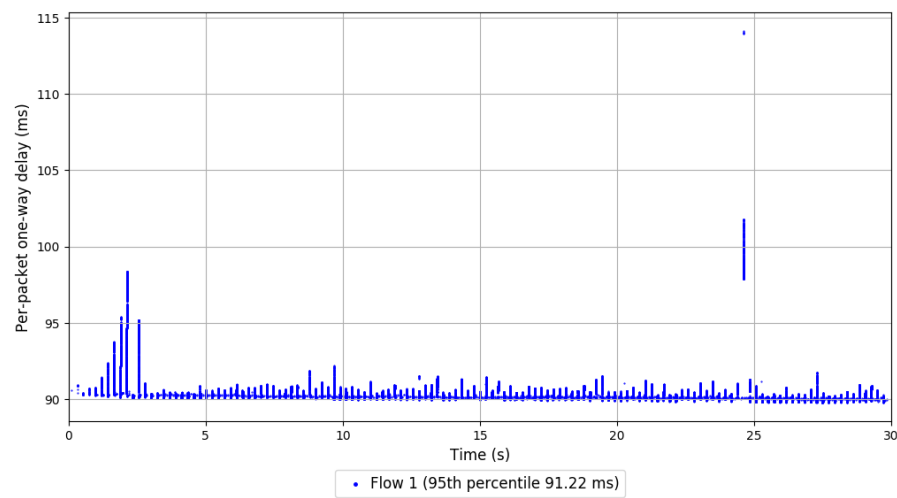
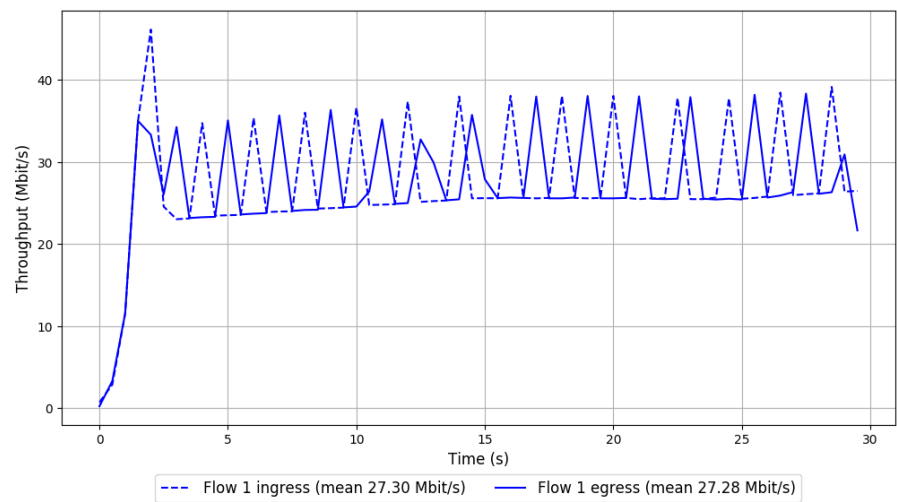
-- Flow 1:

Average throughput: 27.28 Mbit/s

95th percentile per-packet one-way delay: 91.224 ms

Loss rate: 0.81%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

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

End at: 2018-02-15 23:02:32

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.63 Mbit/s

95th percentile per-packet one-way delay: 100.020 ms

Loss rate: 0.76%

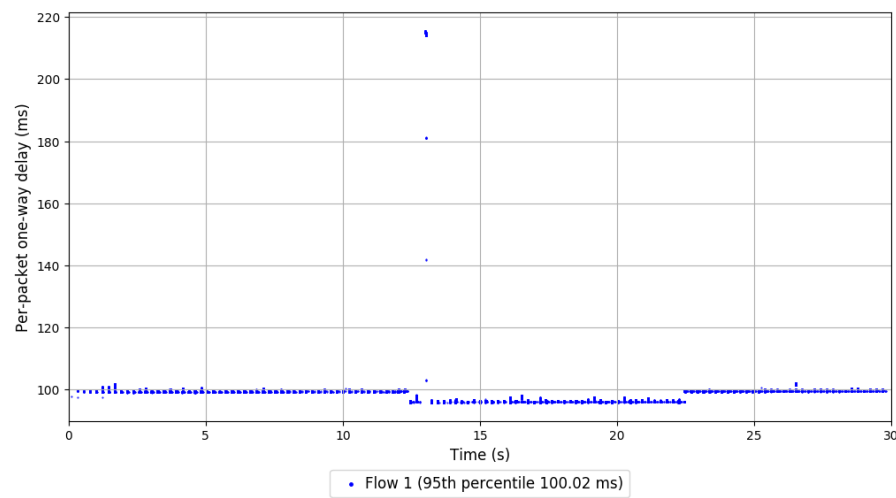
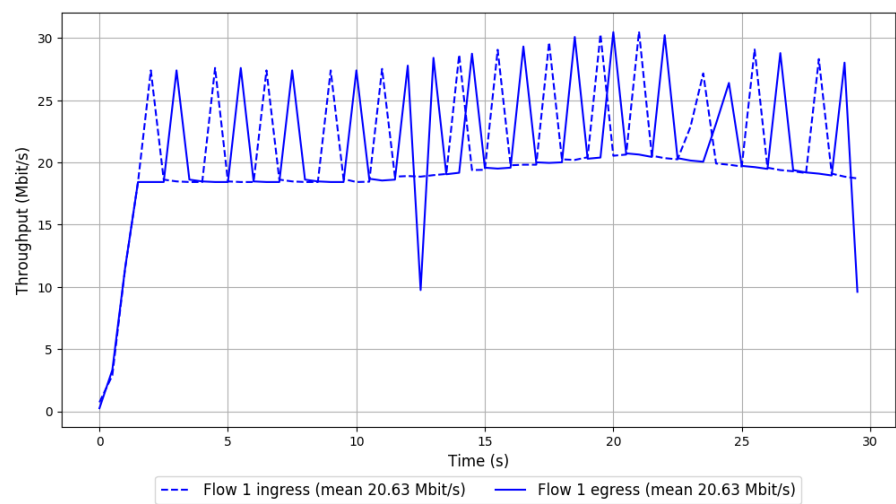
-- Flow 1:

Average throughput: 20.63 Mbit/s

95th percentile per-packet one-way delay: 100.020 ms

Loss rate: 0.76%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-15 23:17:33

End at: 2018-02-15 23:18:03

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.72 Mbit/s

95th percentile per-packet one-way delay: 104.093 ms

Loss rate: 0.51%

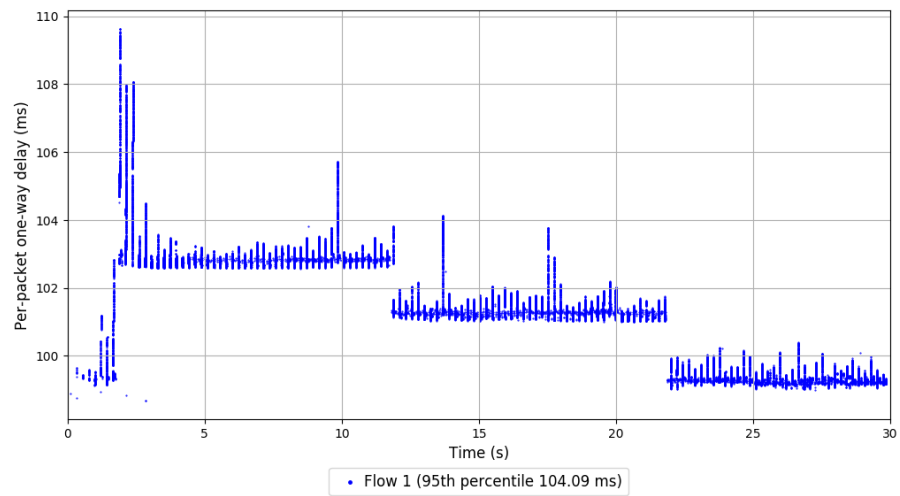
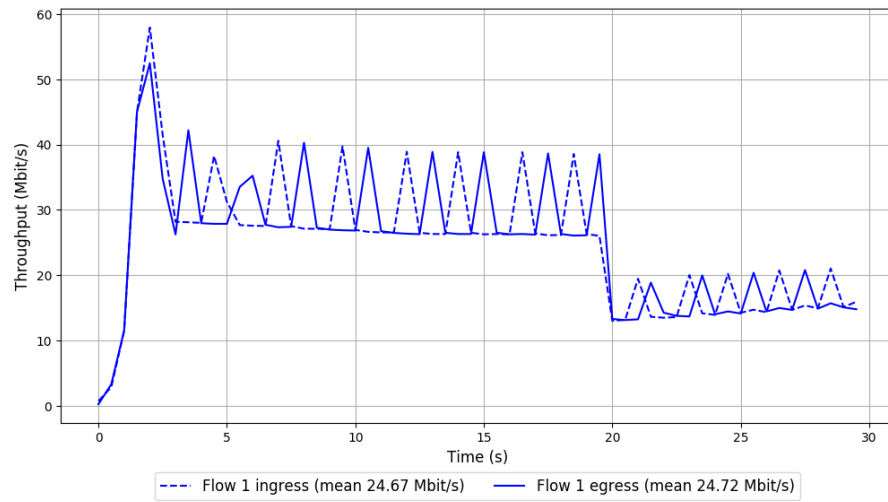
-- Flow 1:

Average throughput: 24.72 Mbit/s

95th percentile per-packet one-way delay: 104.093 ms

Loss rate: 0.51%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-15 23:33:16

End at: 2018-02-15 23:33:46

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.52 Mbit/s

95th percentile per-packet one-way delay: 106.095 ms

Loss rate: 0.89%

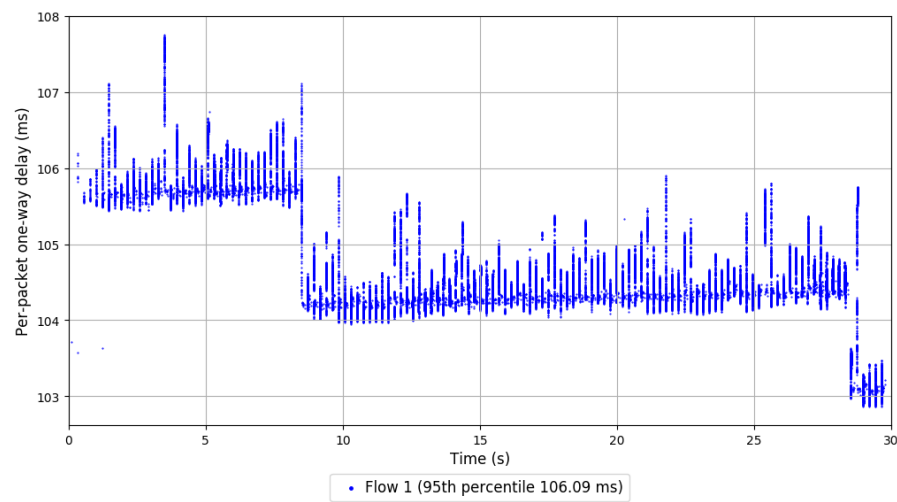
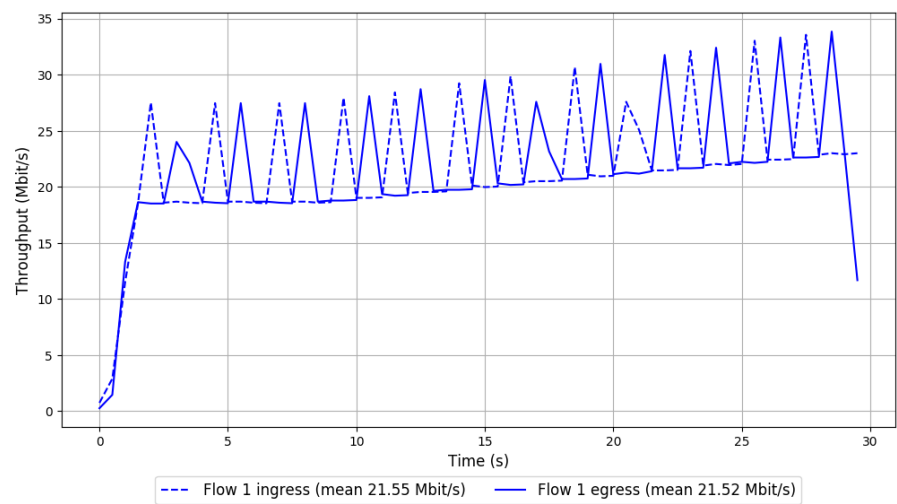
-- Flow 1:

Average throughput: 21.52 Mbit/s

95th percentile per-packet one-way delay: 106.095 ms

Loss rate: 0.89%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-15 23:48:51

End at: 2018-02-15 23:49:21

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.49 Mbit/s

95th percentile per-packet one-way delay: 106.368 ms

Loss rate: 0.72%

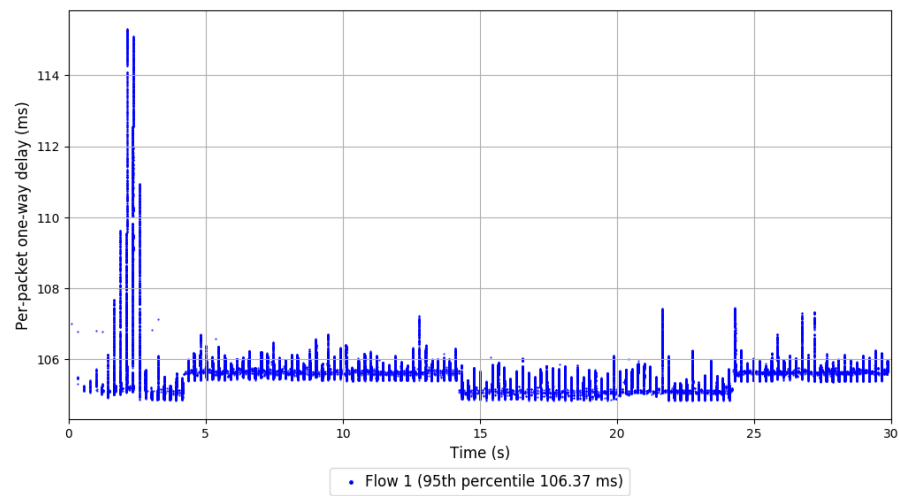
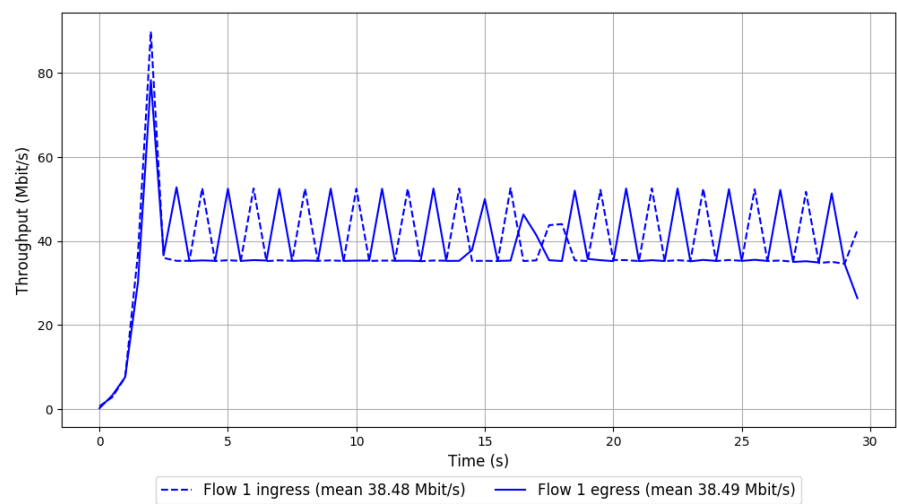
-- Flow 1:

Average throughput: 38.49 Mbit/s

95th percentile per-packet one-way delay: 106.368 ms

Loss rate: 0.72%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-16 00:04:26

End at: 2018-02-16 00:04:56

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.16 Mbit/s

95th percentile per-packet one-way delay: 106.923 ms

Loss rate: 0.78%

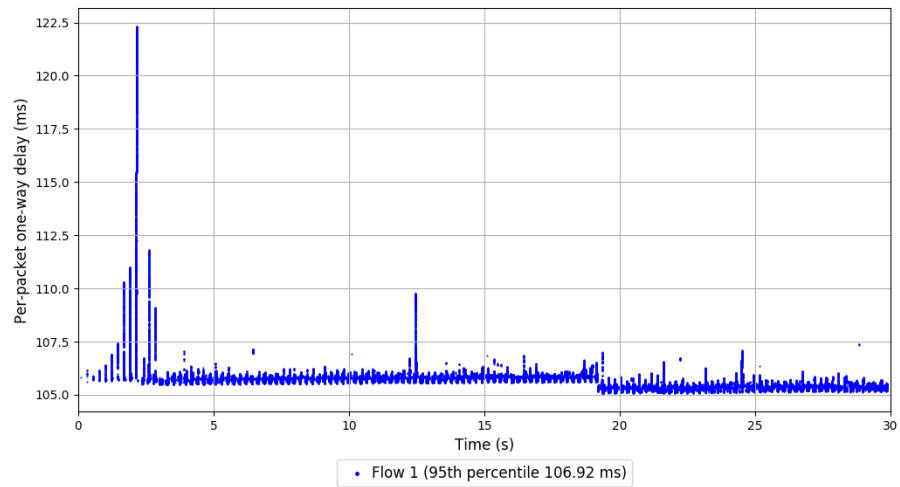
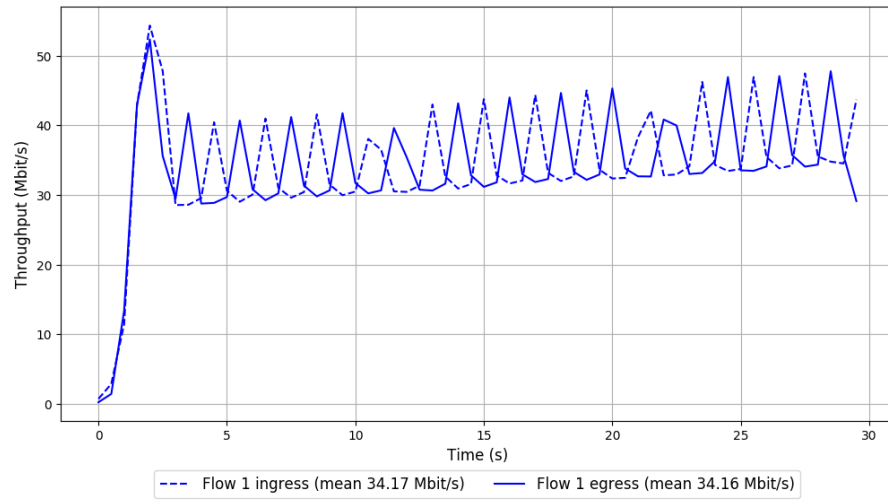
-- Flow 1:

Average throughput: 34.16 Mbit/s

95th percentile per-packet one-way delay: 106.923 ms

Loss rate: 0.78%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

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

End at: 2018-02-16 00:20:46

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.08 Mbit/s

95th percentile per-packet one-way delay: 110.130 ms

Loss rate: 0.38%

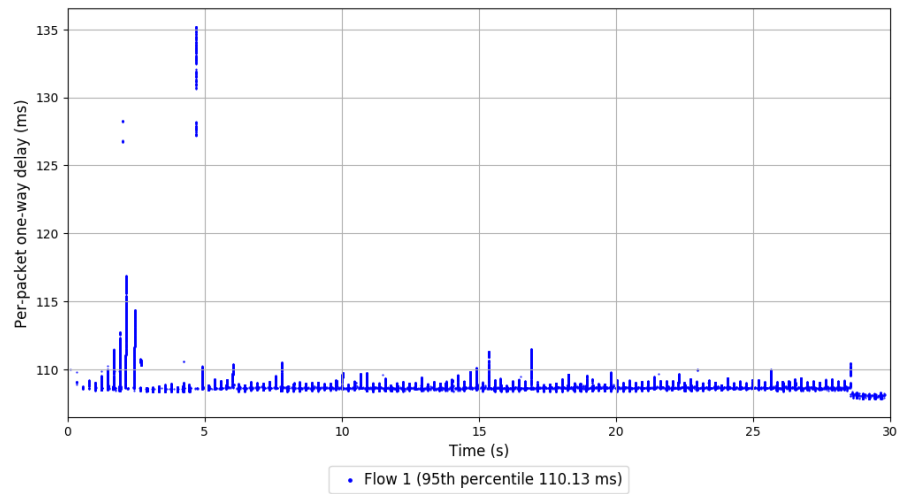
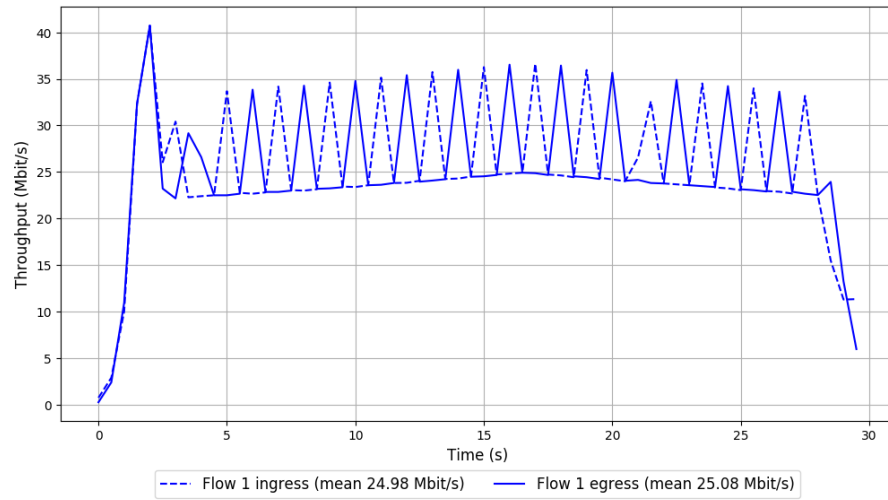
-- Flow 1:

Average throughput: 25.08 Mbit/s

95th percentile per-packet one-way delay: 110.130 ms

Loss rate: 0.38%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-16 00:35:47

End at: 2018-02-16 00:36:17

Below is generated by plot.py at 2018-02-16 03:43:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.82 Mbit/s

95th percentile per-packet one-way delay: 111.740 ms

Loss rate: 0.82%

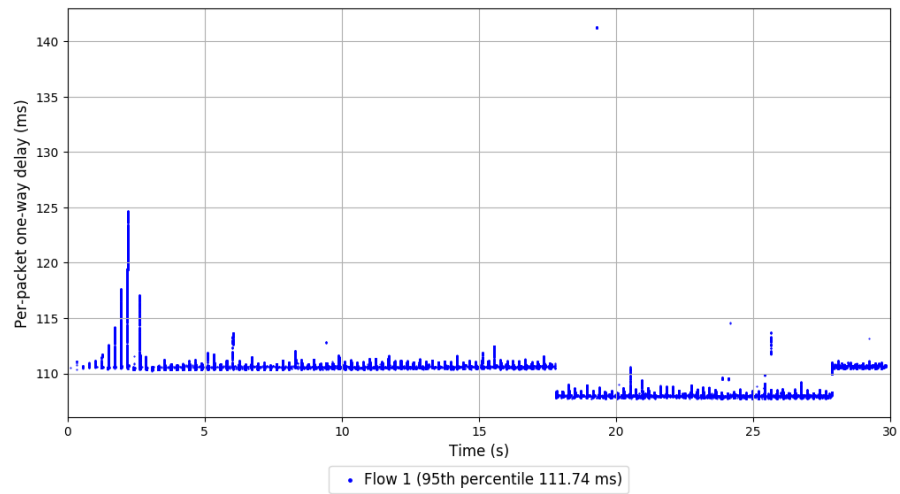
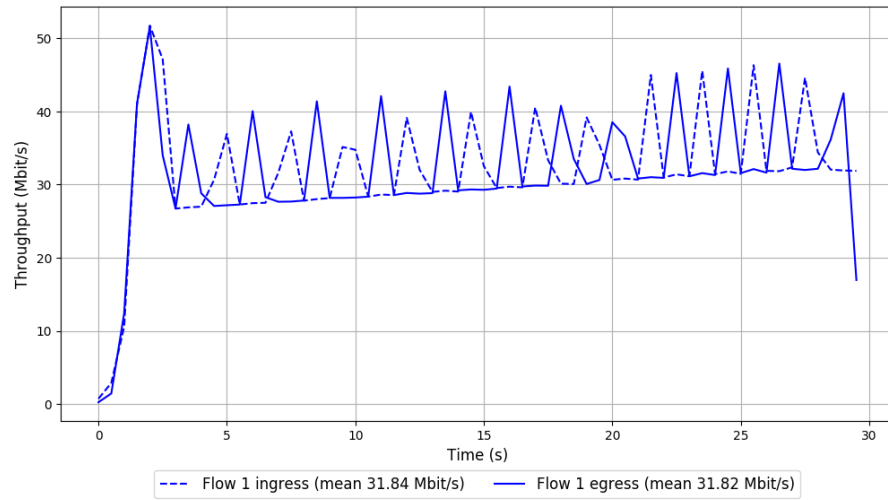
-- Flow 1:

Average throughput: 31.82 Mbit/s

95th percentile per-packet one-way delay: 111.740 ms

Loss rate: 0.82%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-02-15 22:12:05

End at: 2018-02-15 22:12:35

Below is generated by plot.py at 2018-02-16 03:43:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.77 Mbit/s

95th percentile per-packet one-way delay: 151.257 ms

Loss rate: 0.00%

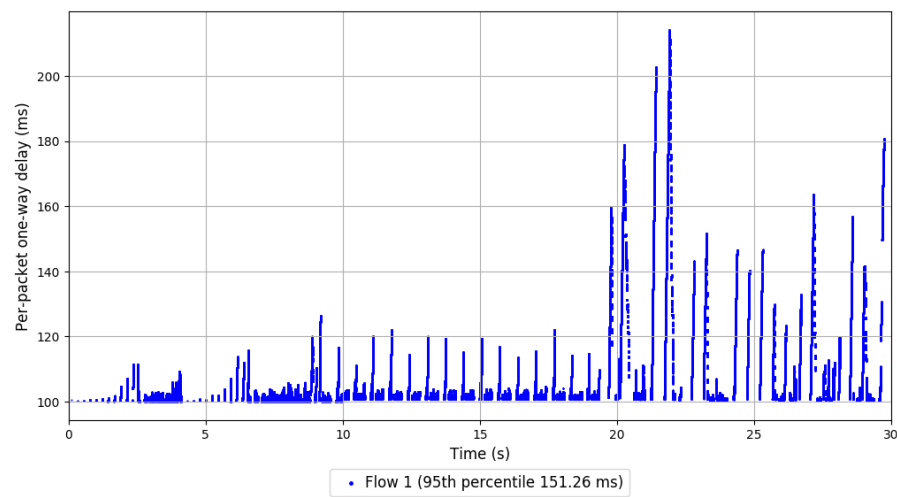
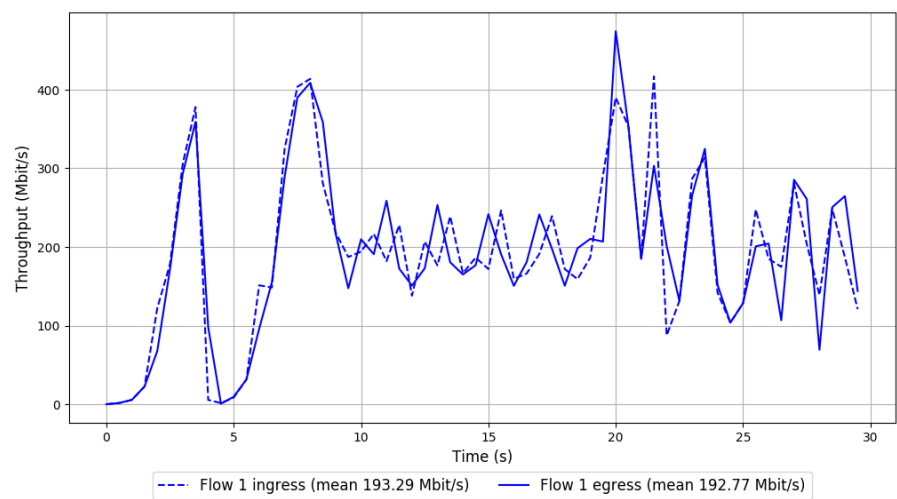
-- Flow 1:

Average throughput: 192.77 Mbit/s

95th percentile per-packet one-way delay: 151.257 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-15 22:29:06

End at: 2018-02-15 22:29:36

Below is generated by plot.py at 2018-02-16 03:44:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 230.92 Mbit/s

95th percentile per-packet one-way delay: 120.480 ms

Loss rate: 0.65%

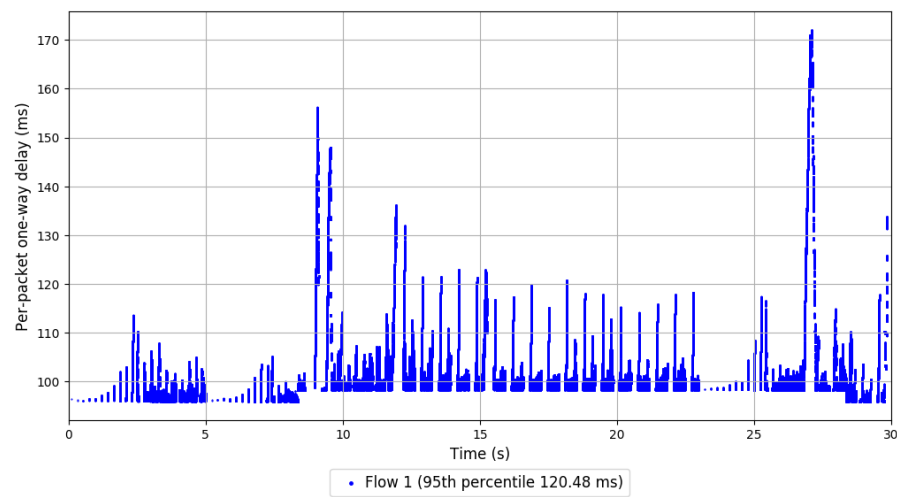
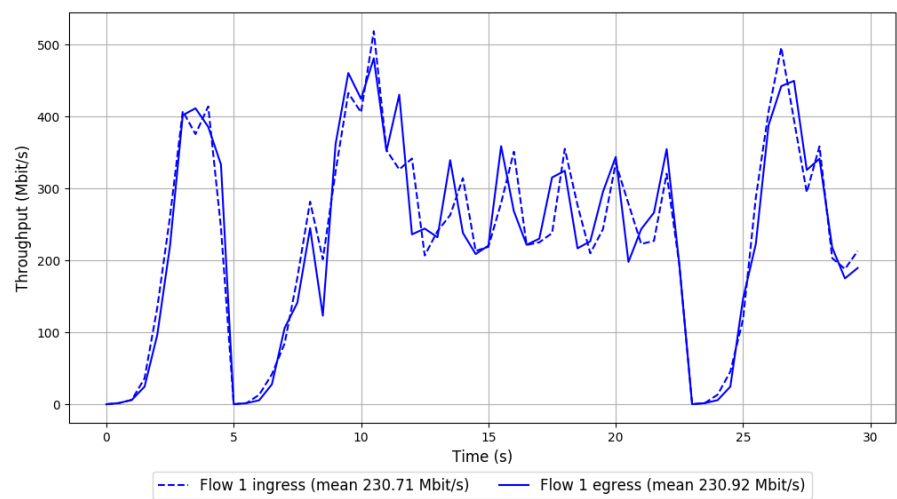
-- Flow 1:

Average throughput: 230.92 Mbit/s

95th percentile per-packet one-way delay: 120.480 ms

Loss rate: 0.65%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-15 22:44:55

End at: 2018-02-15 22:45:25

Below is generated by plot.py at 2018-02-16 03:44:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.31 Mbit/s

95th percentile per-packet one-way delay: 110.248 ms

Loss rate: 0.26%

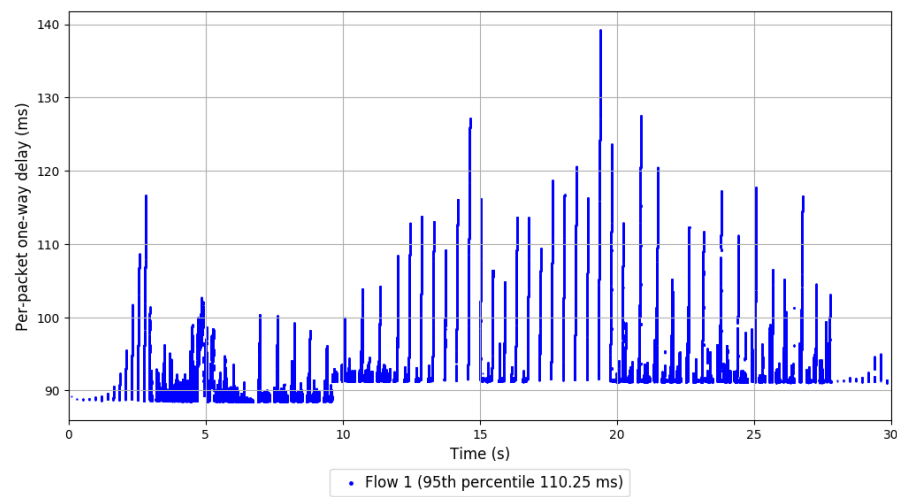
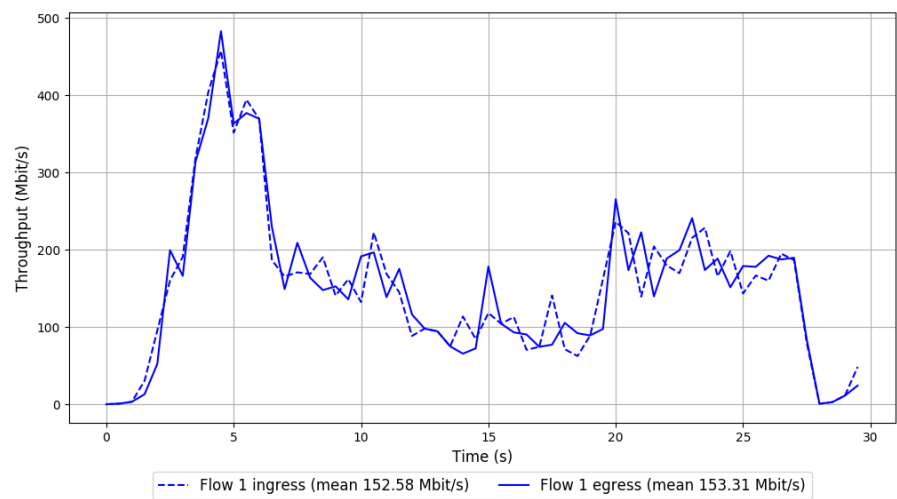
-- Flow 1:

Average throughput: 153.31 Mbit/s

95th percentile per-packet one-way delay: 110.248 ms

Loss rate: 0.26%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-15 23:00:08

End at: 2018-02-15 23:00:38

Below is generated by plot.py at 2018-02-16 03:44:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.20 Mbit/s

95th percentile per-packet one-way delay: 122.107 ms

Loss rate: 0.81%

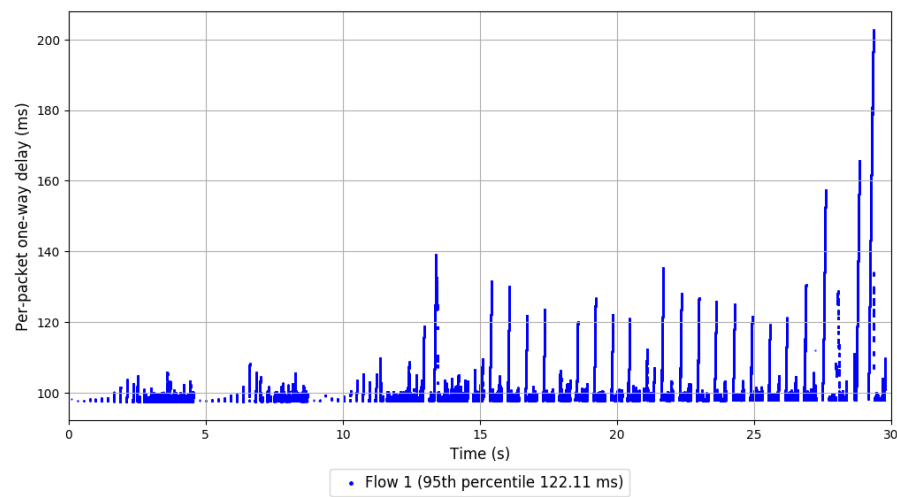
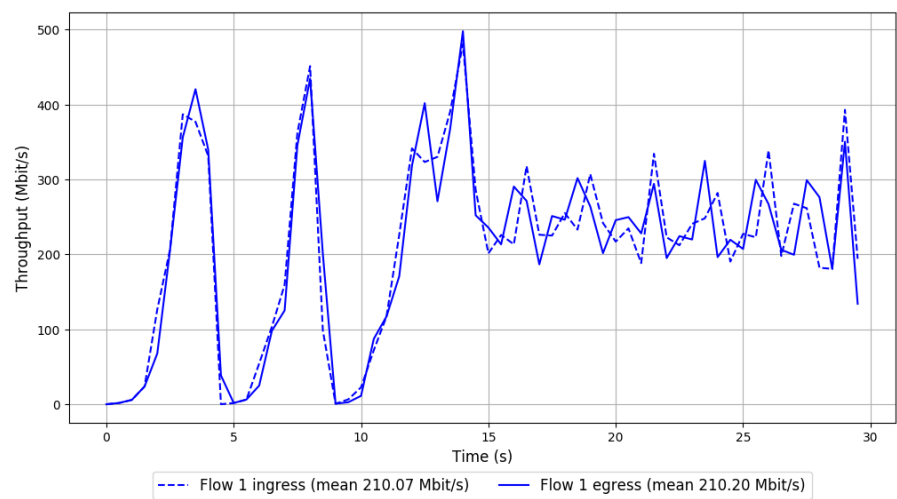
-- Flow 1:

Average throughput: 210.20 Mbit/s

95th percentile per-packet one-way delay: 122.107 ms

Loss rate: 0.81%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-15 23:15:35

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

Below is generated by plot.py at 2018-02-16 03:44:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 143.14 Mbit/s

95th percentile per-packet one-way delay: 124.800 ms

Loss rate: 1.46%

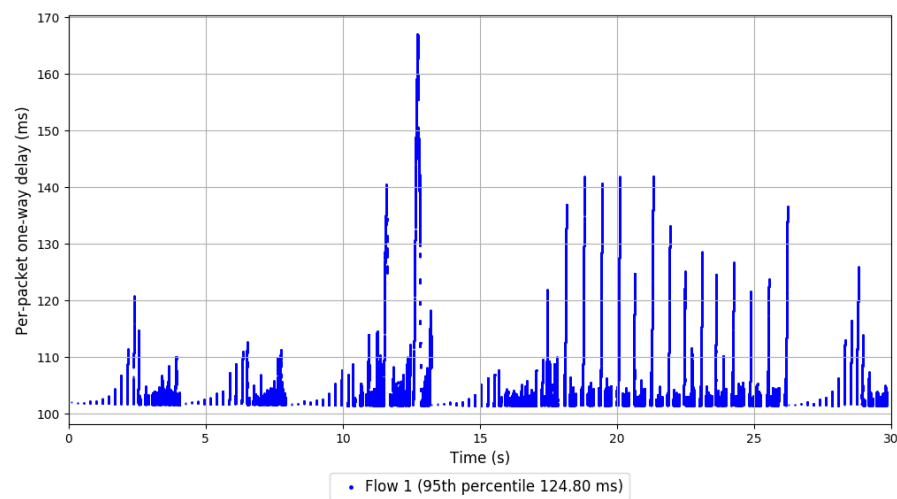
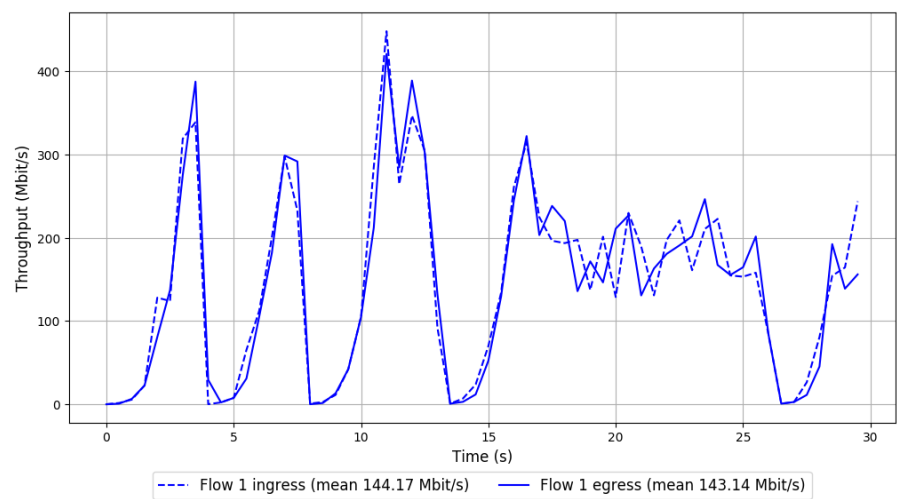
-- Flow 1:

Average throughput: 143.14 Mbit/s

95th percentile per-packet one-way delay: 124.800 ms

Loss rate: 1.46%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-15 23:31:13

End at: 2018-02-15 23:31:43

Below is generated by plot.py at 2018-02-16 03:47:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 299.75 Mbit/s

95th percentile per-packet one-way delay: 223.517 ms

Loss rate: 1.85%

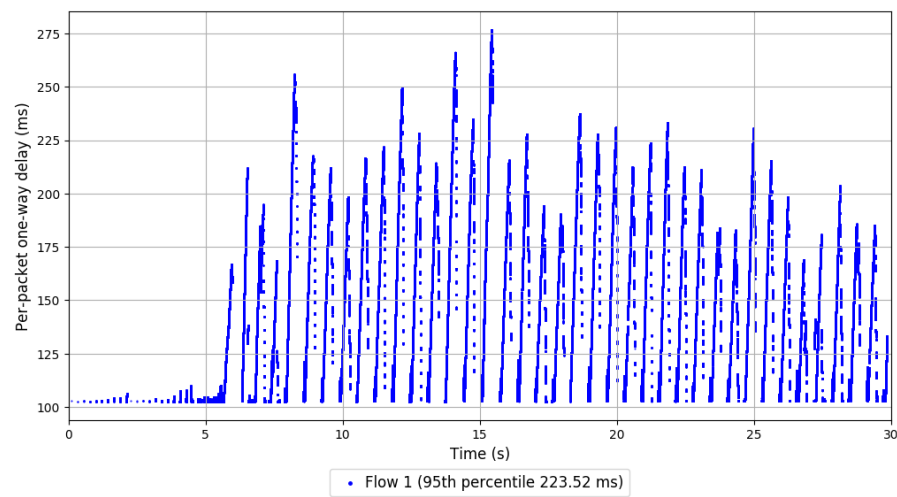
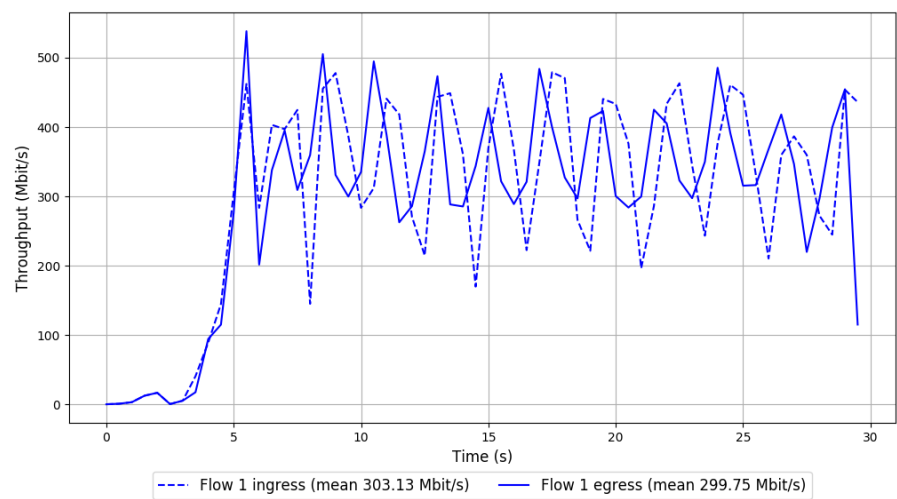
-- Flow 1:

Average throughput: 299.75 Mbit/s

95th percentile per-packet one-way delay: 223.517 ms

Loss rate: 1.85%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-15 23:46:52

End at: 2018-02-15 23:47:22

Below is generated by plot.py at 2018-02-16 03:47:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 110.19 Mbit/s

95th percentile per-packet one-way delay: 111.866 ms

Loss rate: 0.00%

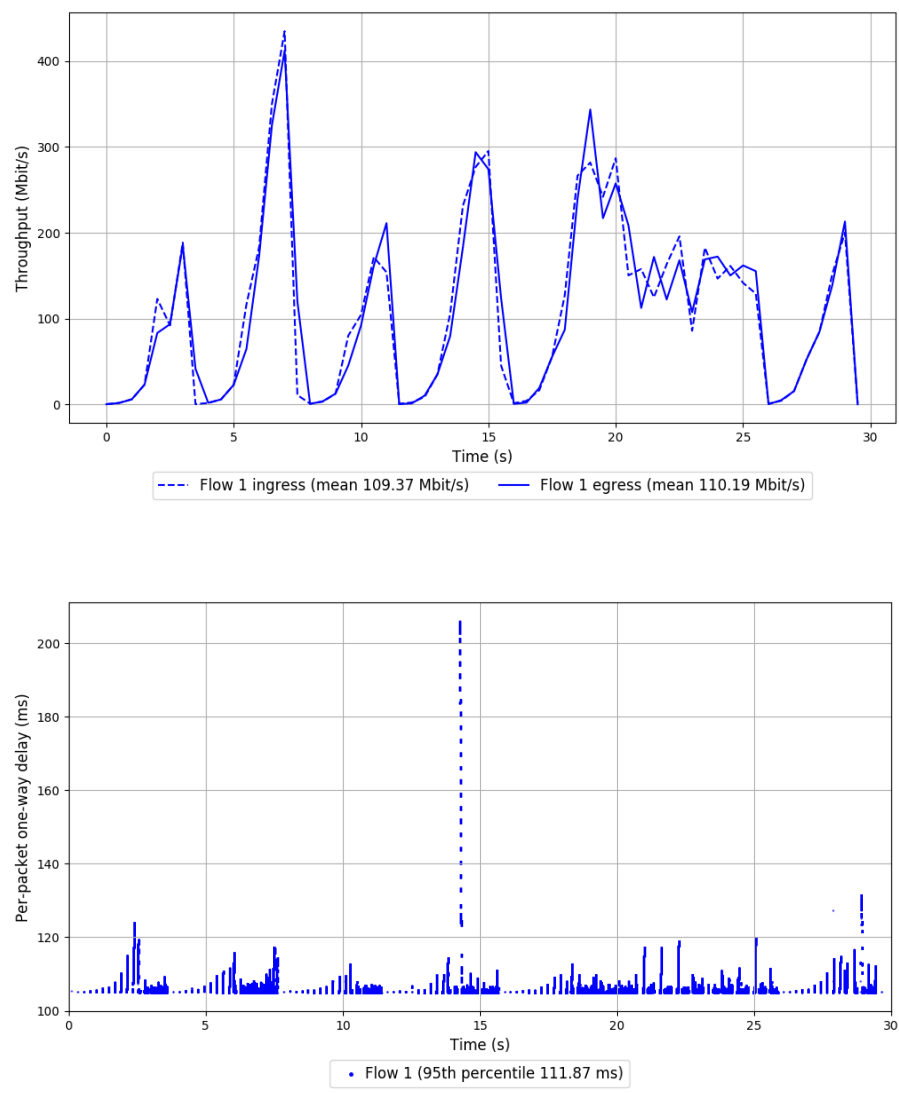
-- Flow 1:

Average throughput: 110.19 Mbit/s

95th percentile per-packet one-way delay: 111.866 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-16 00:02:29

End at: 2018-02-16 00:02:59

Below is generated by plot.py at 2018-02-16 03:47:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.91 Mbit/s

95th percentile per-packet one-way delay: 134.708 ms

Loss rate: 1.84%

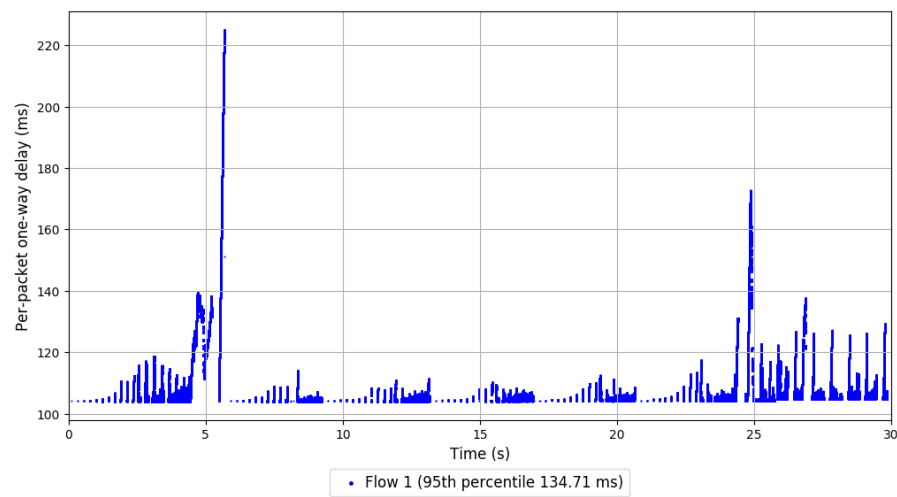
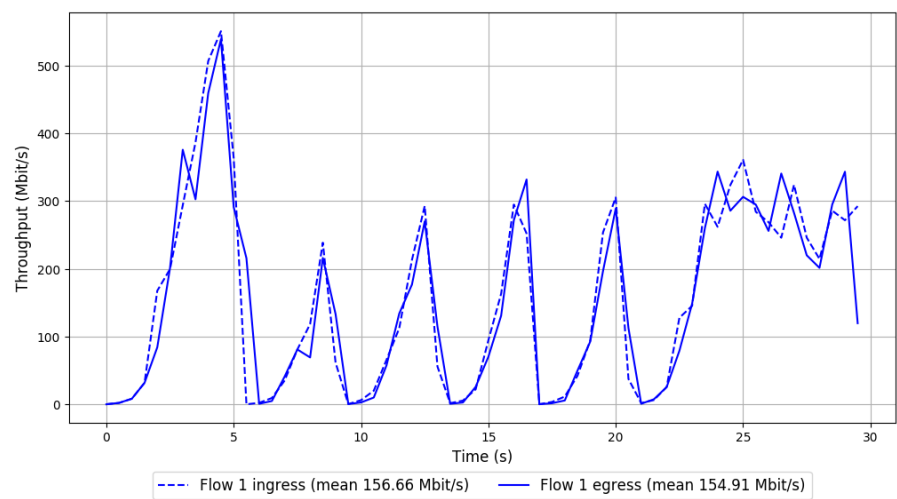
-- Flow 1:

Average throughput: 154.91 Mbit/s

95th percentile per-packet one-way delay: 134.708 ms

Loss rate: 1.84%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-16 00:18:19

End at: 2018-02-16 00:18:49

Below is generated by plot.py at 2018-02-16 03:47:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 119.35 Mbit/s

95th percentile per-packet one-way delay: 277.481 ms

Loss rate: 7.14%

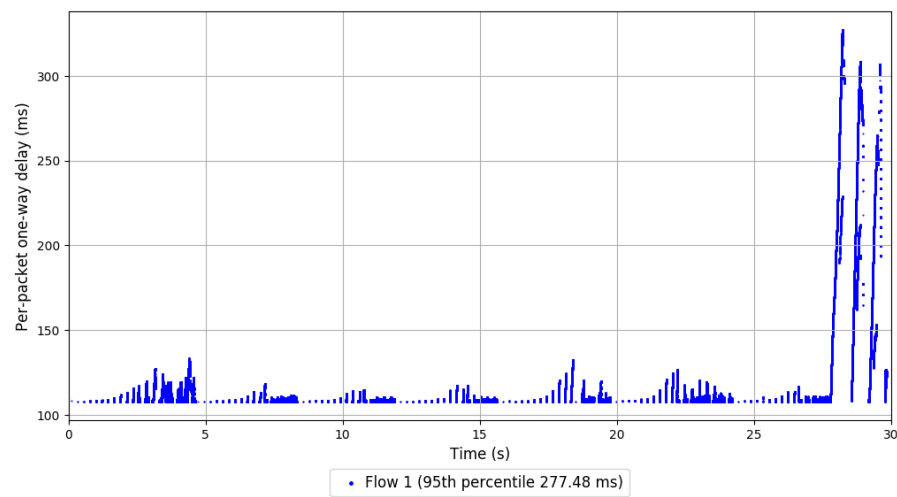
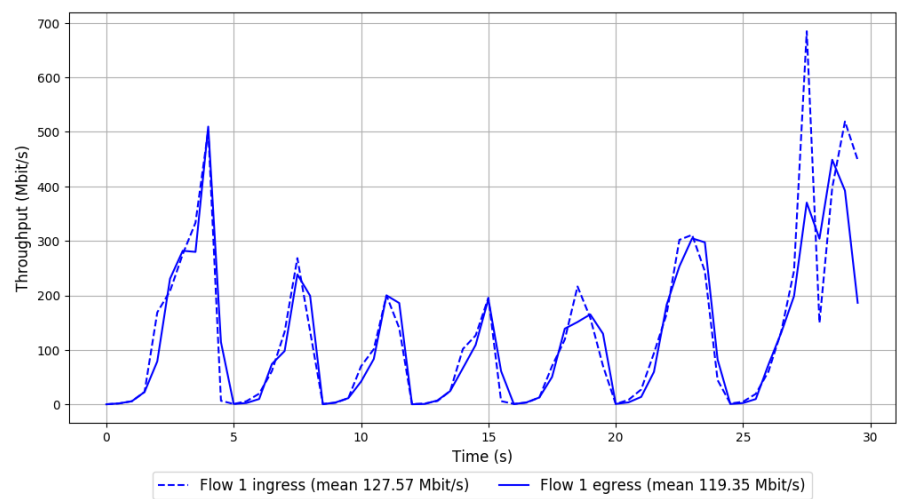
-- Flow 1:

Average throughput: 119.35 Mbit/s

95th percentile per-packet one-way delay: 277.481 ms

Loss rate: 7.14%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-16 00:33:55

End at: 2018-02-16 00:34:25

Below is generated by plot.py at 2018-02-16 03:47:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 117.23 Mbit/s

95th percentile per-packet one-way delay: 135.697 ms

Loss rate: 2.64%

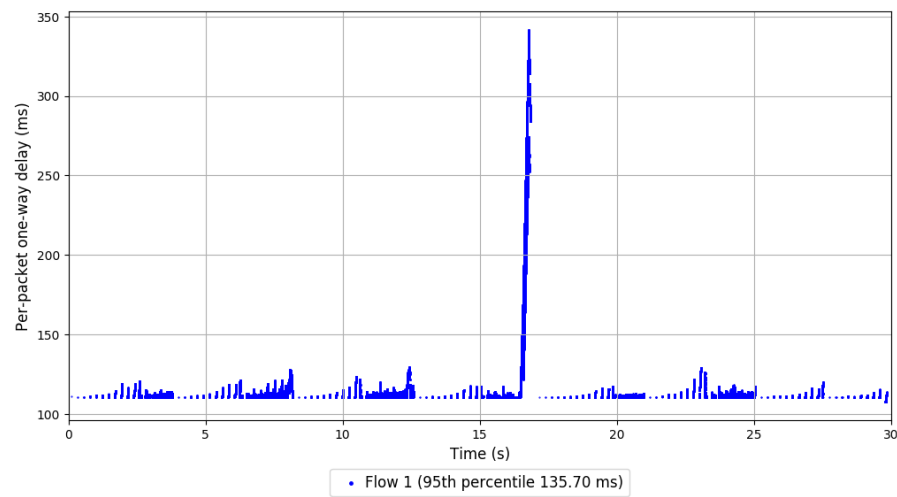
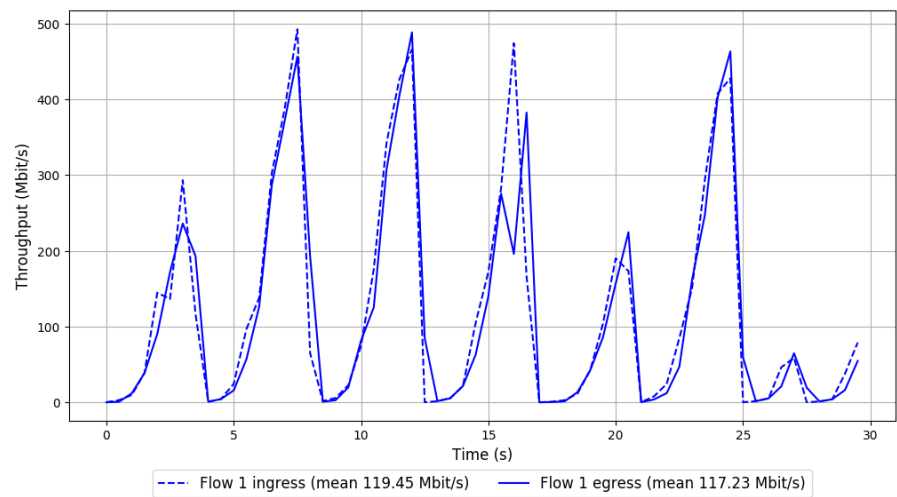
-- Flow 1:

Average throughput: 117.23 Mbit/s

95th percentile per-packet one-way delay: 135.697 ms

Loss rate: 2.64%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-02-15 22:06:31

End at: 2018-02-15 22:07:01

Below is generated by plot.py at 2018-02-16 03:47:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.49 Mbit/s

95th percentile per-packet one-way delay: 103.605 ms

Loss rate: 0.84%

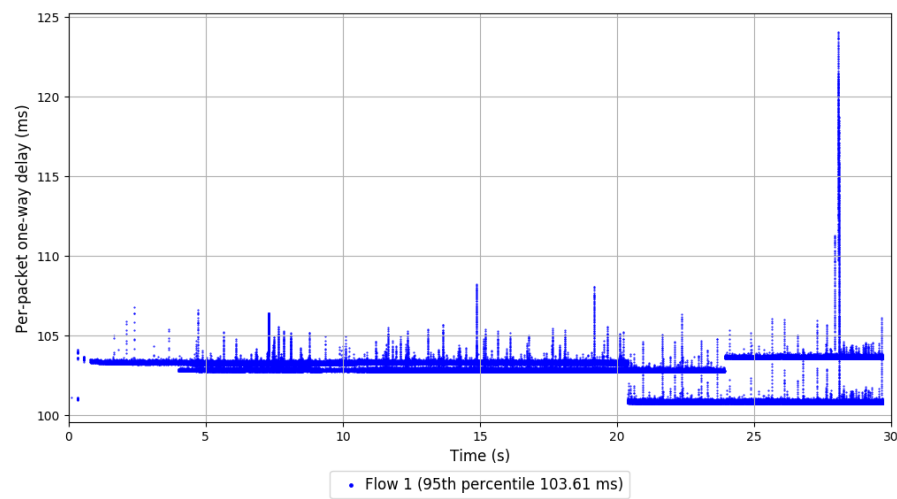
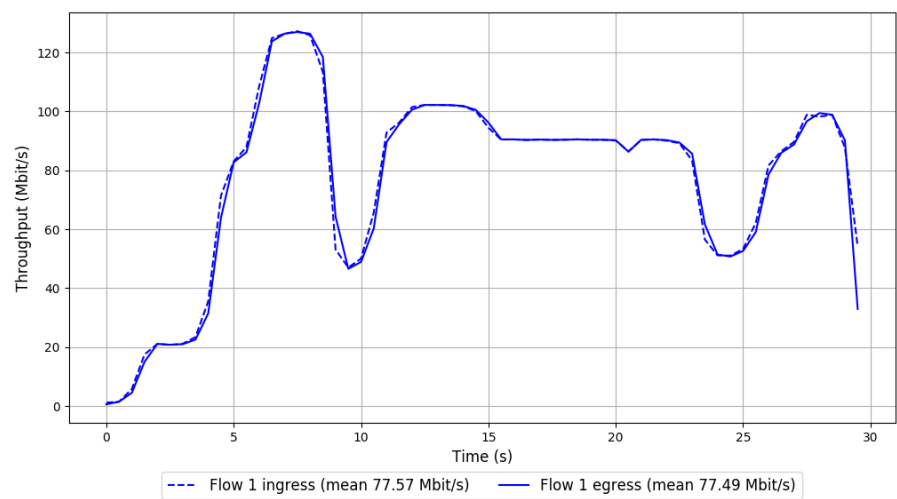
-- Flow 1:

Average throughput: 77.49 Mbit/s

95th percentile per-packet one-way delay: 103.605 ms

Loss rate: 0.84%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-15 22:23:27

End at: 2018-02-15 22:23:57

Below is generated by plot.py at 2018-02-16 03:47:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.92 Mbit/s

95th percentile per-packet one-way delay: 98.117 ms

Loss rate: 0.76%

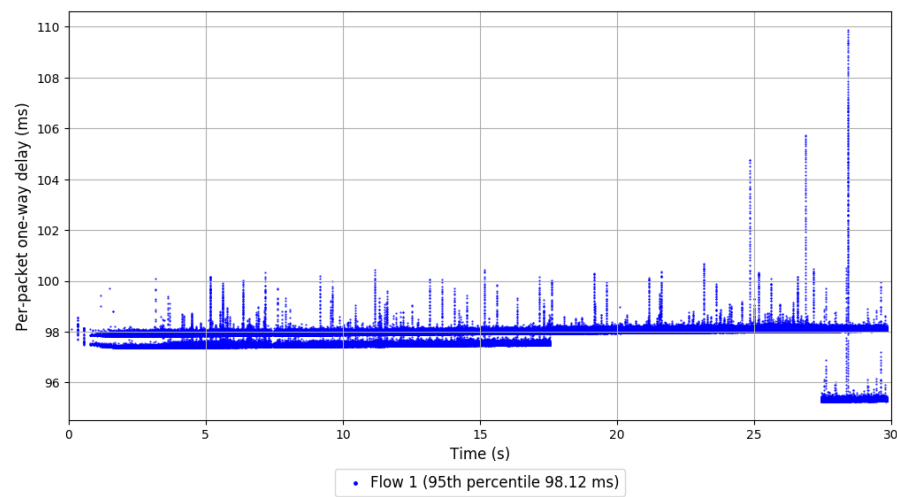
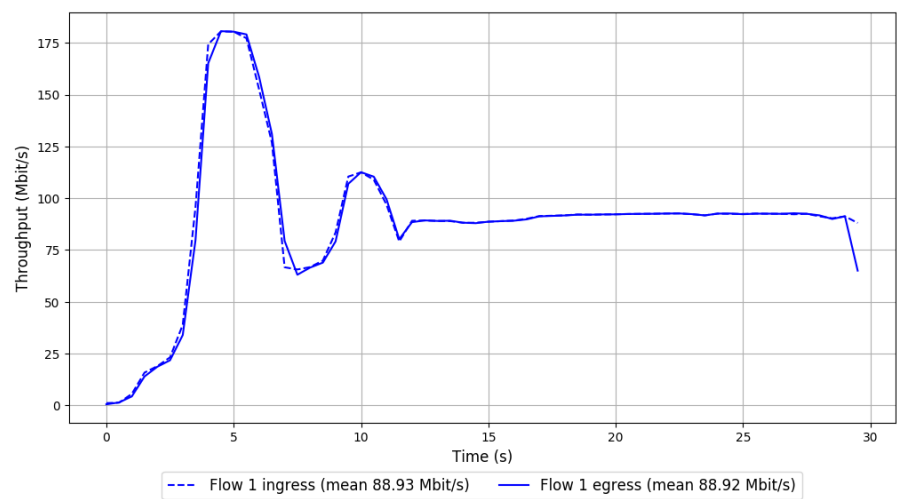
-- Flow 1:

Average throughput: 88.92 Mbit/s

95th percentile per-packet one-way delay: 98.117 ms

Loss rate: 0.76%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-15 22:39:59

End at: 2018-02-15 22:40:29

Below is generated by plot.py at 2018-02-16 03:47:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.29 Mbit/s

95th percentile per-packet one-way delay: 94.425 ms

Loss rate: 0.14%

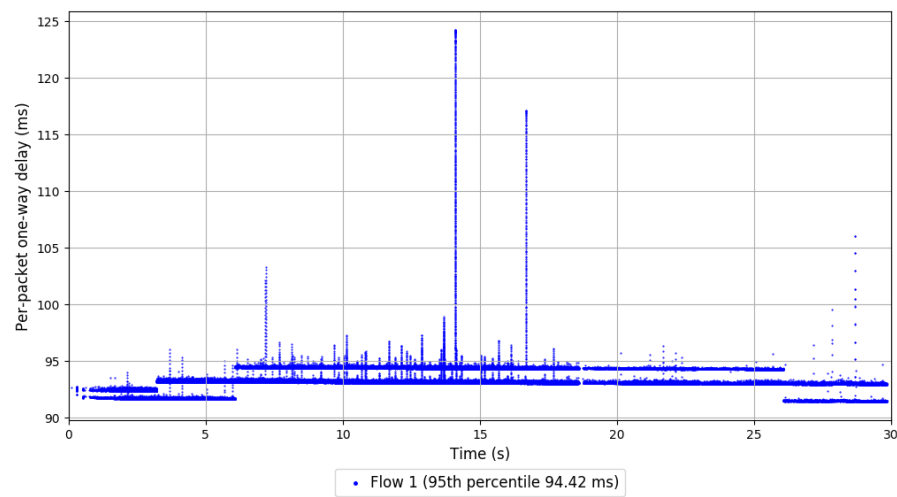
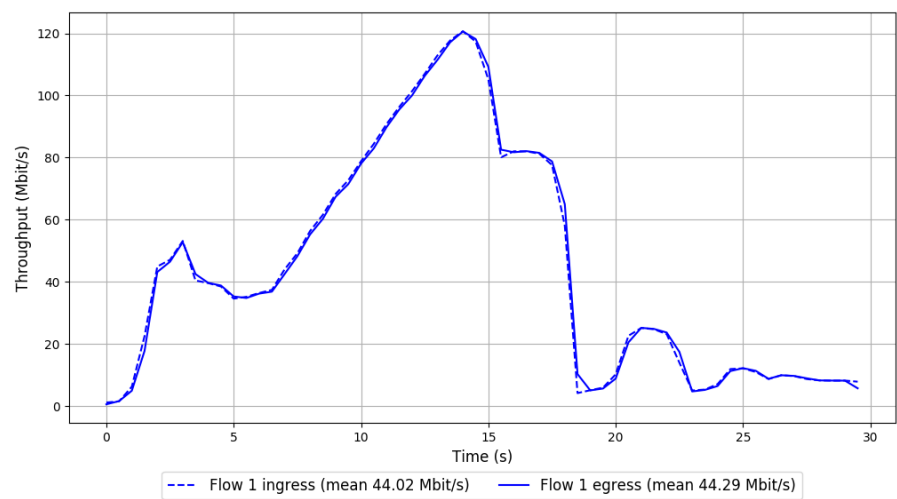
-- Flow 1:

Average throughput: 44.29 Mbit/s

95th percentile per-packet one-way delay: 94.425 ms

Loss rate: 0.14%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-15 22:55:10

End at: 2018-02-15 22:55:40

Below is generated by plot.py at 2018-02-16 03:47:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.27 Mbit/s

95th percentile per-packet one-way delay: 91.505 ms

Loss rate: 0.92%

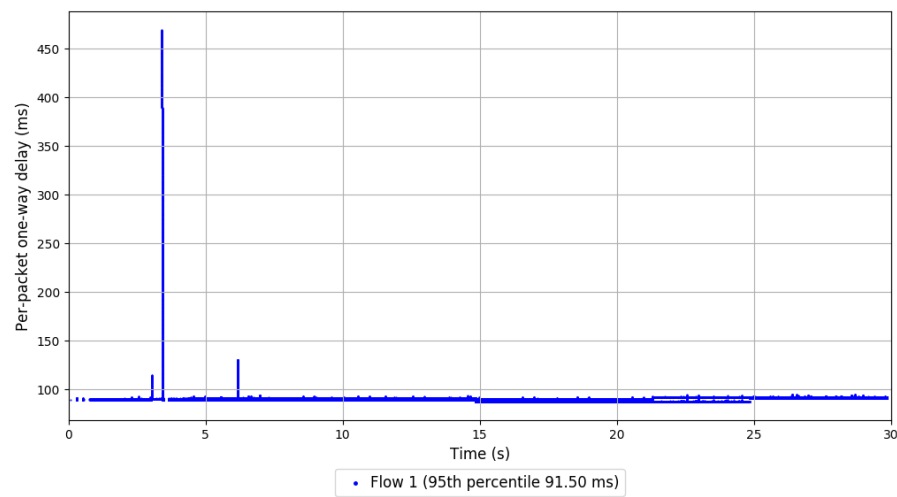
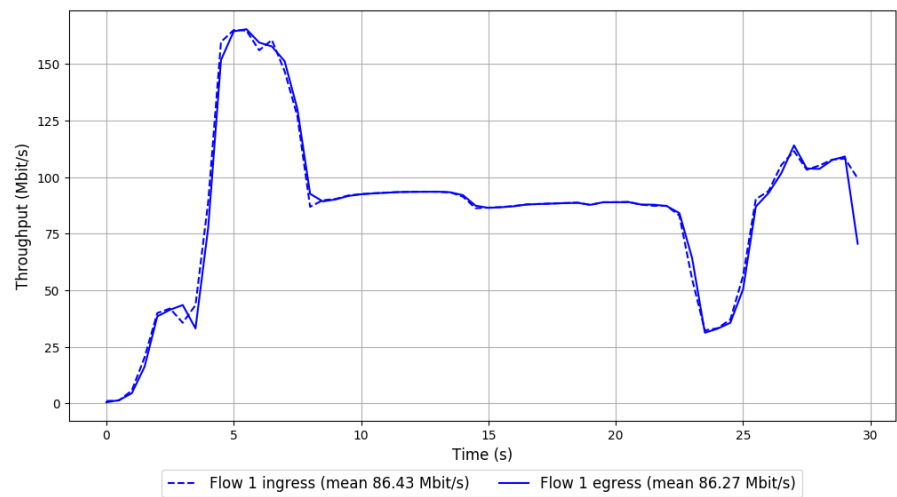
-- Flow 1:

Average throughput: 86.27 Mbit/s

95th percentile per-packet one-way delay: 91.505 ms

Loss rate: 0.92%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-15 23:10:34

End at: 2018-02-15 23:11:04

Below is generated by plot.py at 2018-02-16 03:47:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.34 Mbit/s

95th percentile per-packet one-way delay: 102.032 ms

Loss rate: 0.14%

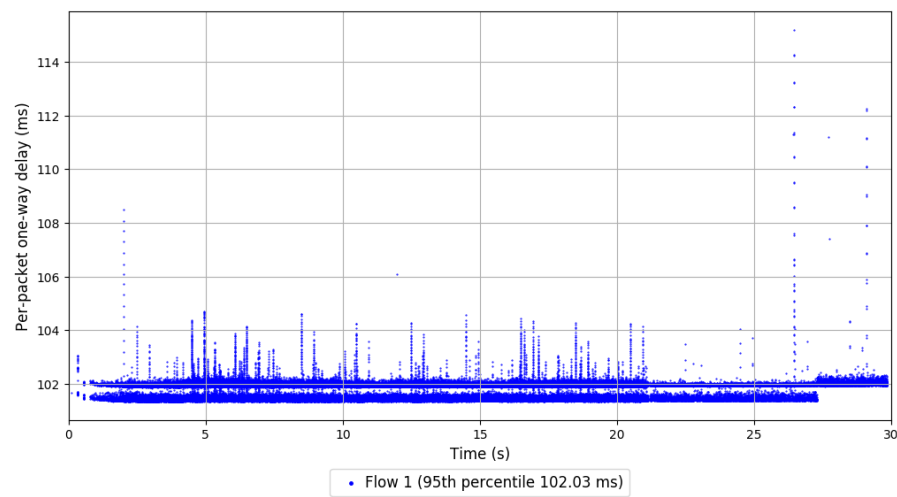
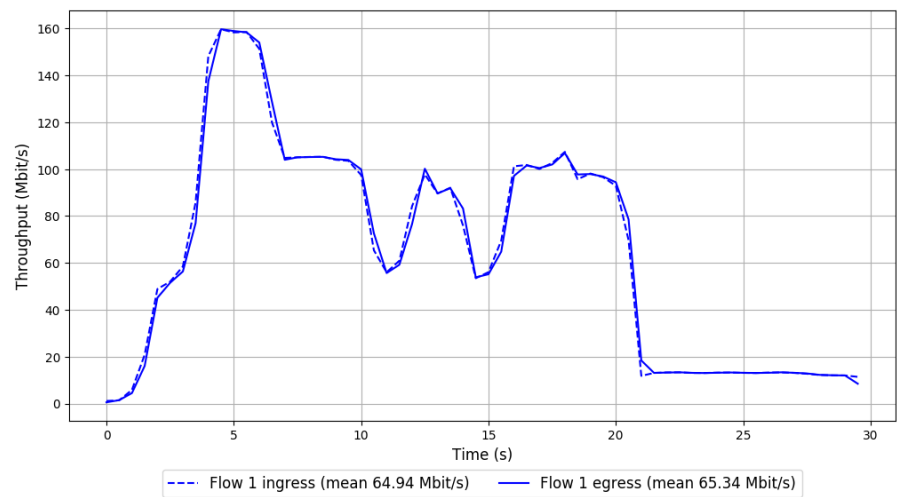
-- Flow 1:

Average throughput: 65.34 Mbit/s

95th percentile per-packet one-way delay: 102.032 ms

Loss rate: 0.14%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-15 23:26:13

End at: 2018-02-15 23:26:43

Below is generated by plot.py at 2018-02-16 03:47:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.32 Mbit/s

95th percentile per-packet one-way delay: 100.341 ms

Loss rate: 0.31%

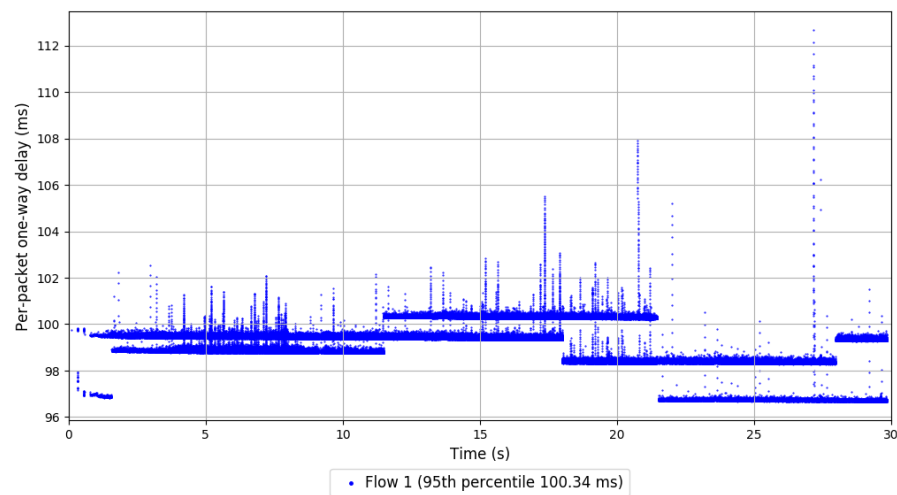
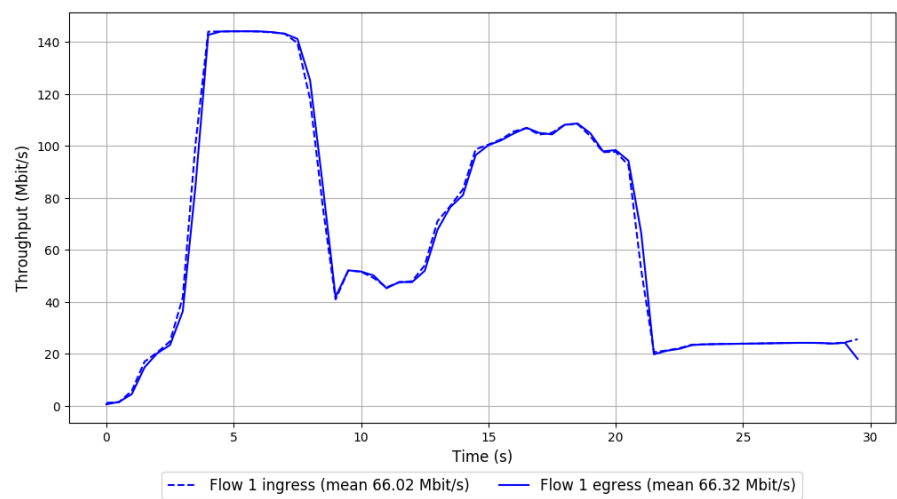
-- Flow 1:

Average throughput: 66.32 Mbit/s

95th percentile per-packet one-way delay: 100.341 ms

Loss rate: 0.31%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-15 23:41:50

End at: 2018-02-15 23:42:20

Below is generated by plot.py at 2018-02-16 03:48:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.09 Mbit/s

95th percentile per-packet one-way delay: 106.686 ms

Loss rate: 0.47%

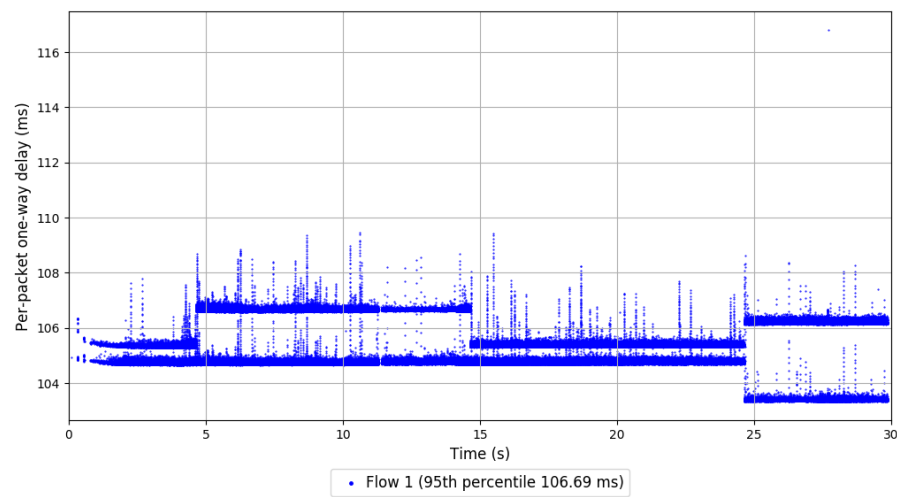
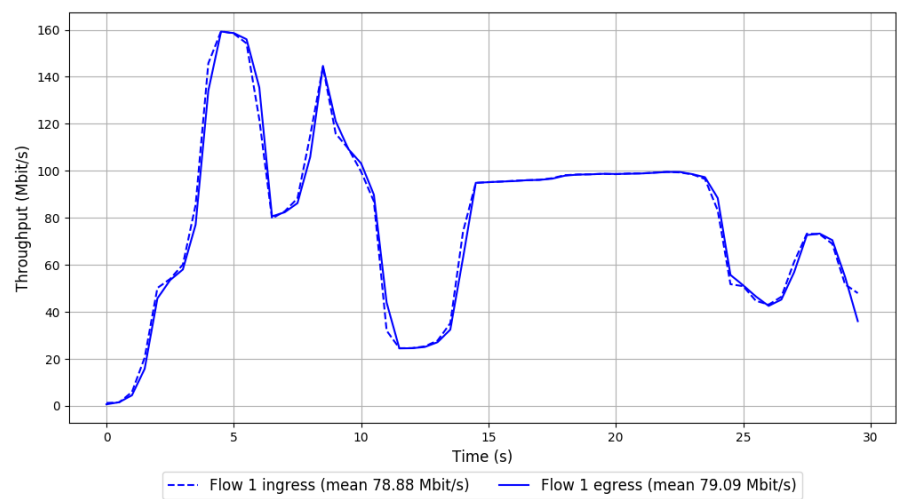
-- Flow 1:

Average throughput: 79.09 Mbit/s

95th percentile per-packet one-way delay: 106.686 ms

Loss rate: 0.47%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-15 23:57:26

End at: 2018-02-15 23:57:56

Below is generated by plot.py at 2018-02-16 03:48:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.11 Mbit/s

95th percentile per-packet one-way delay: 106.070 ms

Loss rate: 0.67%

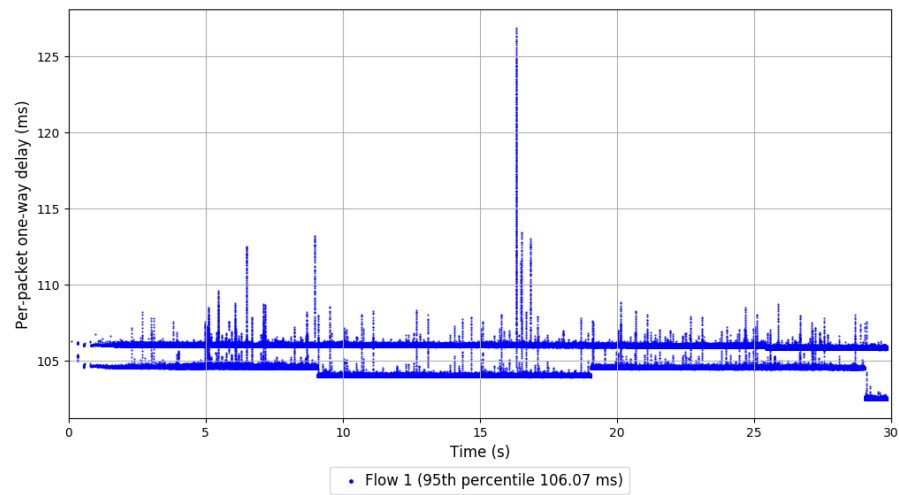
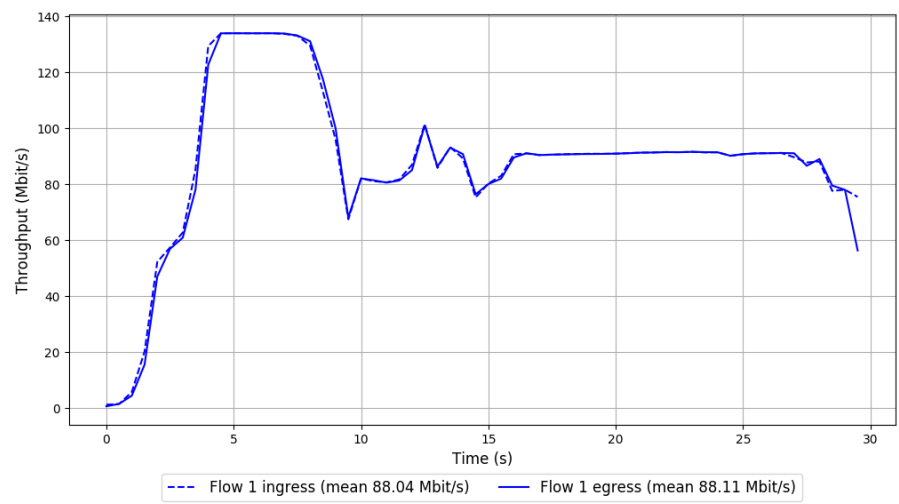
-- Flow 1:

Average throughput: 88.11 Mbit/s

95th percentile per-packet one-way delay: 106.070 ms

Loss rate: 0.67%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-16 00:13:16

End at: 2018-02-16 00:13:46

Below is generated by plot.py at 2018-02-16 03:48:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.55 Mbit/s

95th percentile per-packet one-way delay: 109.520 ms

Loss rate: 0.37%

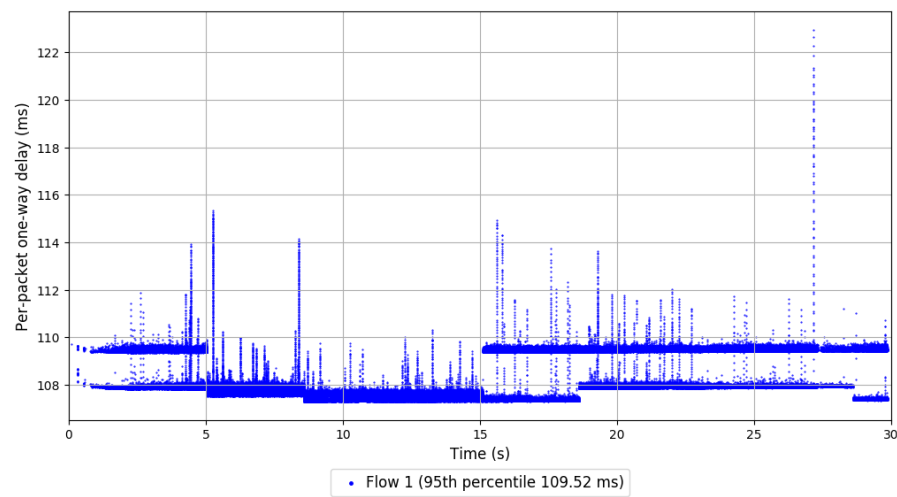
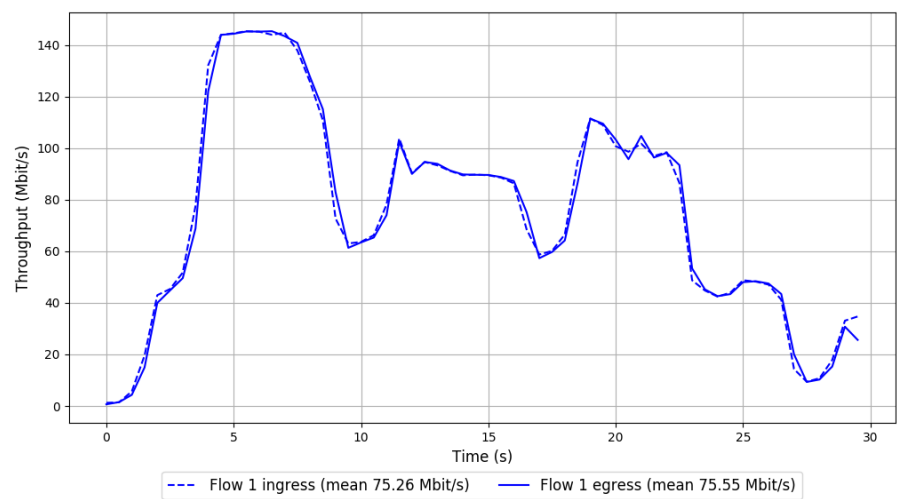
-- Flow 1:

Average throughput: 75.55 Mbit/s

95th percentile per-packet one-way delay: 109.520 ms

Loss rate: 0.37%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-16 00:28:51

End at: 2018-02-16 00:29:21

Below is generated by plot.py at 2018-02-16 03:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.59 Mbit/s

95th percentile per-packet one-way delay: 108.457 ms

Loss rate: 0.80%

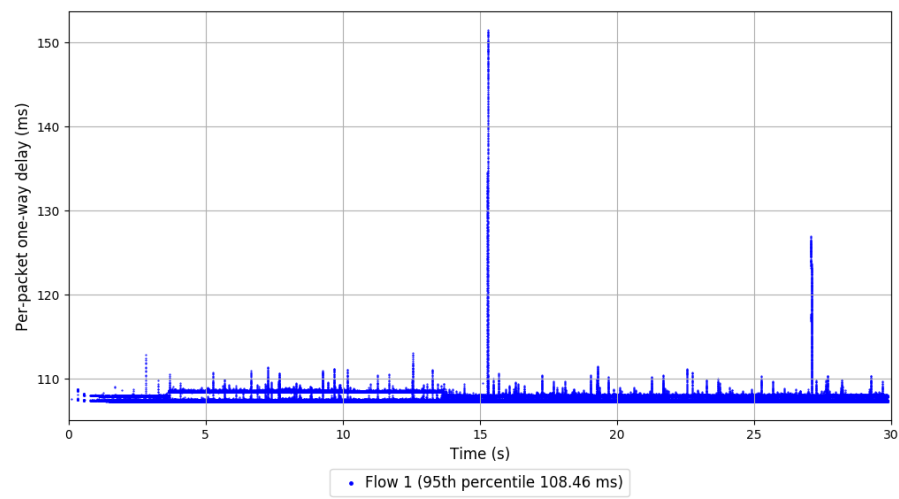
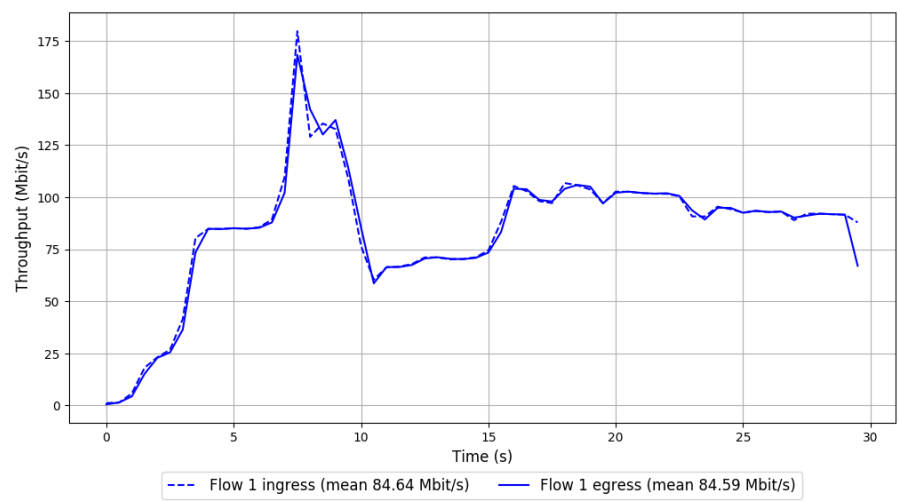
-- Flow 1:

Average throughput: 84.59 Mbit/s

95th percentile per-packet one-way delay: 108.457 ms

Loss rate: 0.80%

Run 10: Report of Copa — Data Link

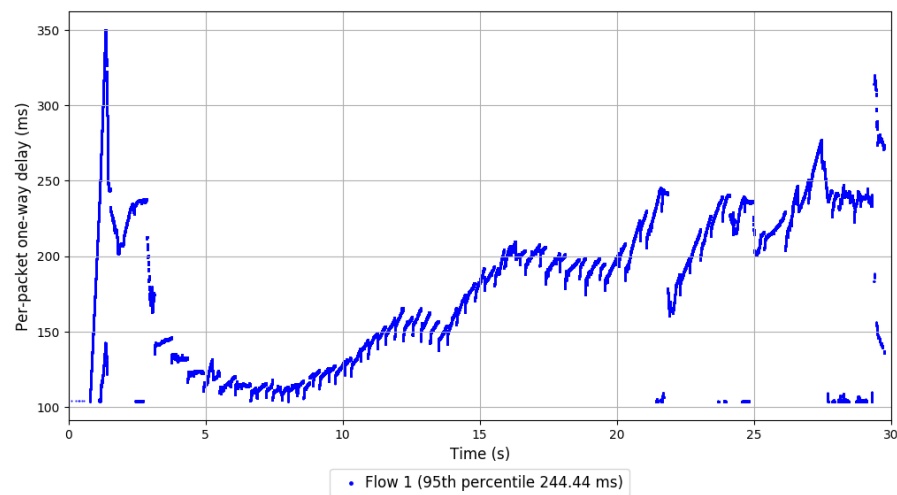
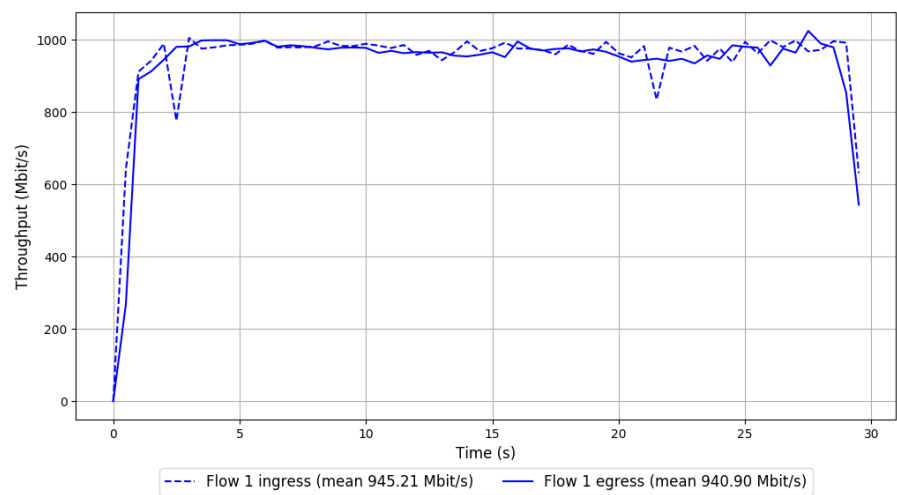


```
Run 1: Statistics of FillP

Start at: 2018-02-15 22:10:21
End at: 2018-02-15 22:10:51

# Below is generated by plot.py at 2018-02-16 04:03:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 940.90 Mbit/s
95th percentile per-packet one-way delay: 244.435 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 940.90 Mbit/s
95th percentile per-packet one-way delay: 244.435 ms
Loss rate: 1.21%
```

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-15 22:27:20

End at: 2018-02-15 22:27:50

Below is generated by plot.py at 2018-02-16 04:03:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 925.25 Mbit/s

95th percentile per-packet one-way delay: 202.160 ms

Loss rate: 2.67%

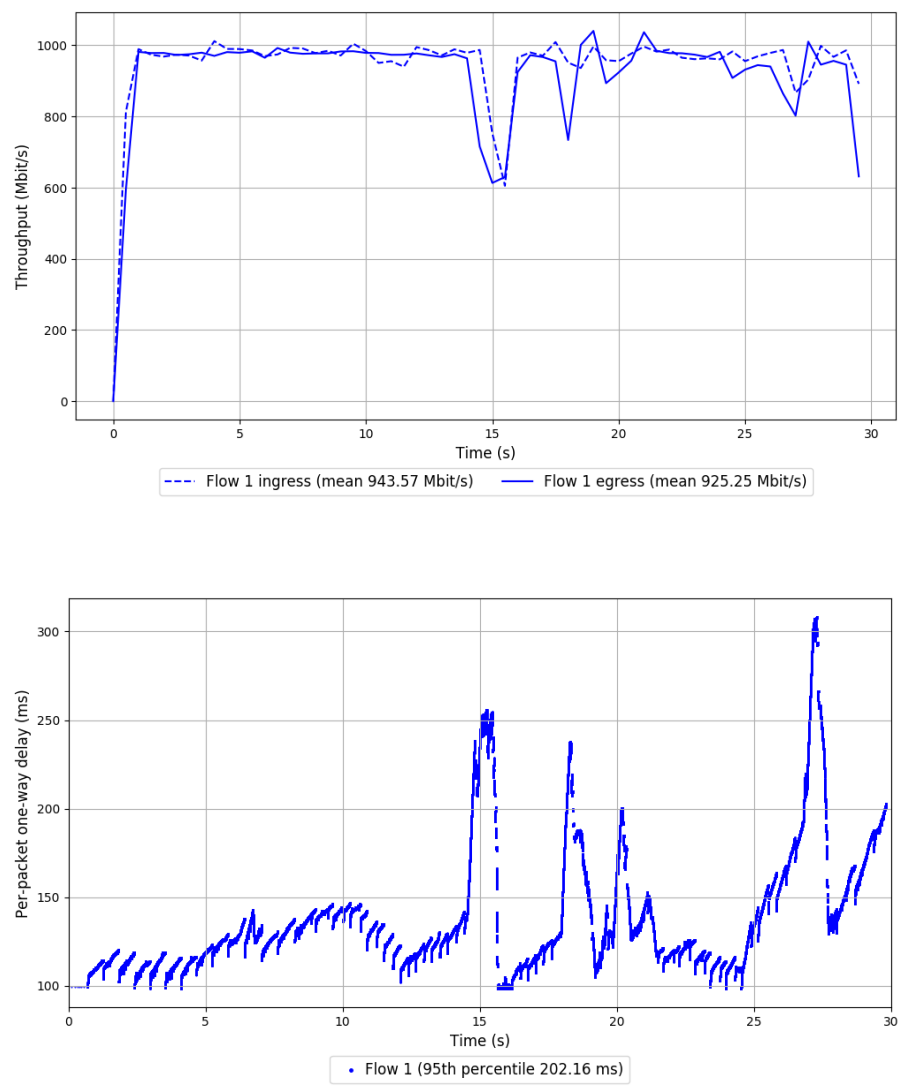
-- Flow 1:

Average throughput: 925.25 Mbit/s

95th percentile per-packet one-way delay: 202.160 ms

Loss rate: 2.67%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-15 22:43:39

End at: 2018-02-15 22:44:09

Below is generated by plot.py at 2018-02-16 04:03:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 951.71 Mbit/s

95th percentile per-packet one-way delay: 153.512 ms

Loss rate: 1.24%

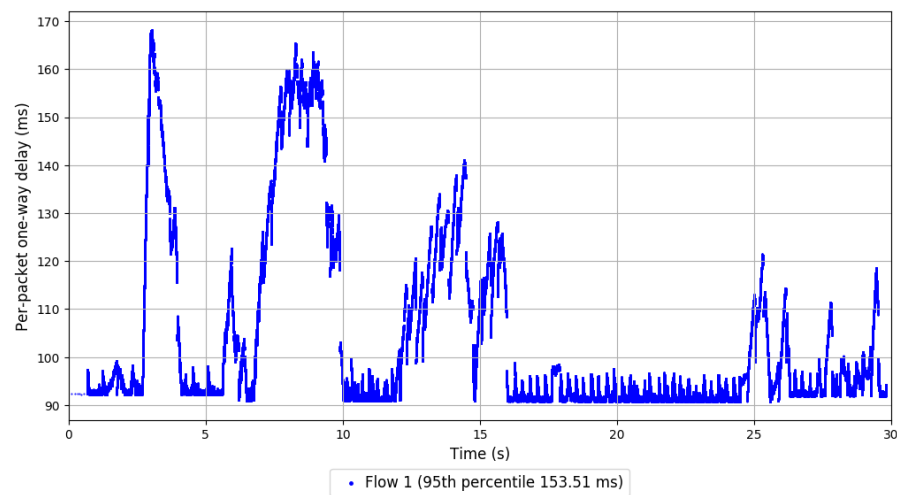
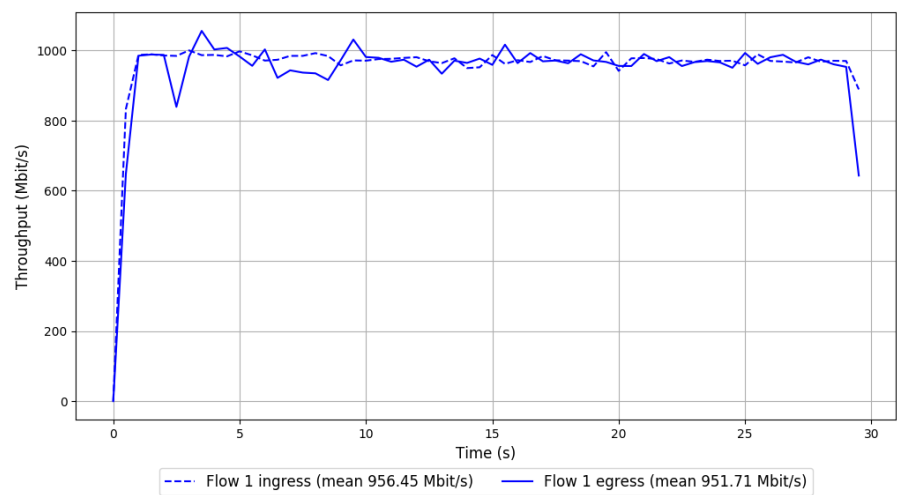
-- Flow 1:

Average throughput: 951.71 Mbit/s

95th percentile per-packet one-way delay: 153.512 ms

Loss rate: 1.24%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-15 22:58:52

End at: 2018-02-15 22:59:22

Below is generated by plot.py at 2018-02-16 04:03:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 957.47 Mbit/s

95th percentile per-packet one-way delay: 126.879 ms

Loss rate: 0.79%

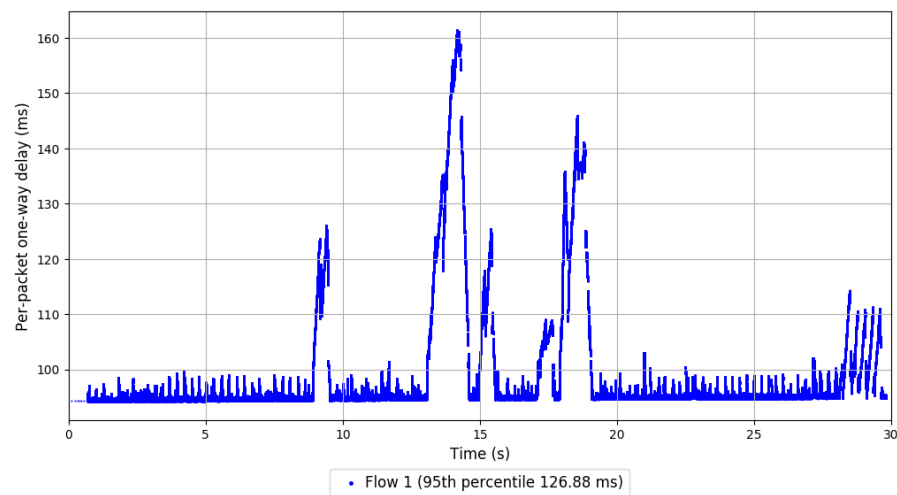
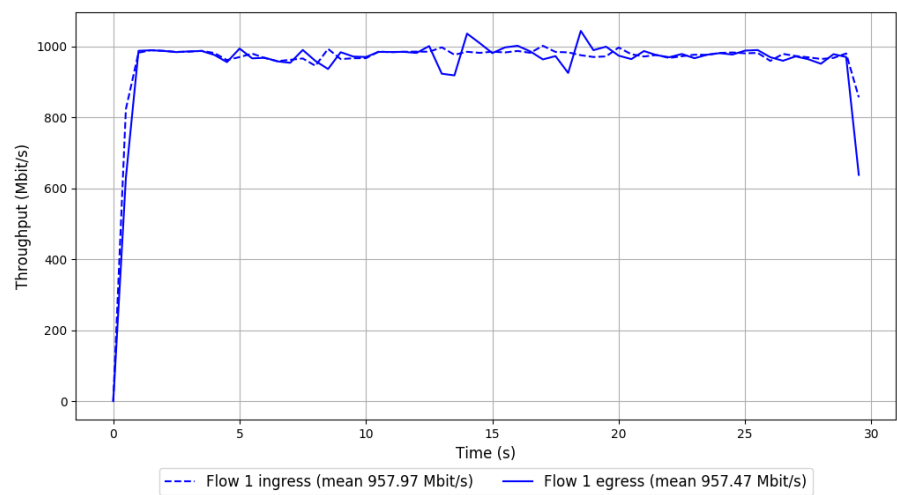
-- Flow 1:

Average throughput: 957.47 Mbit/s

95th percentile per-packet one-way delay: 126.879 ms

Loss rate: 0.79%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-15 23:14:18

End at: 2018-02-15 23:14:48

Below is generated by plot.py at 2018-02-16 04:03:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 945.45 Mbit/s

95th percentile per-packet one-way delay: 146.670 ms

Loss rate: 0.91%

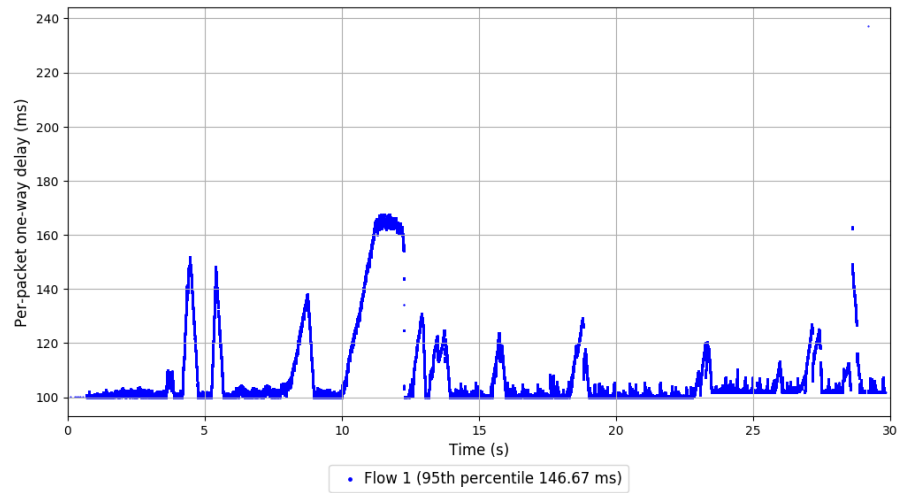
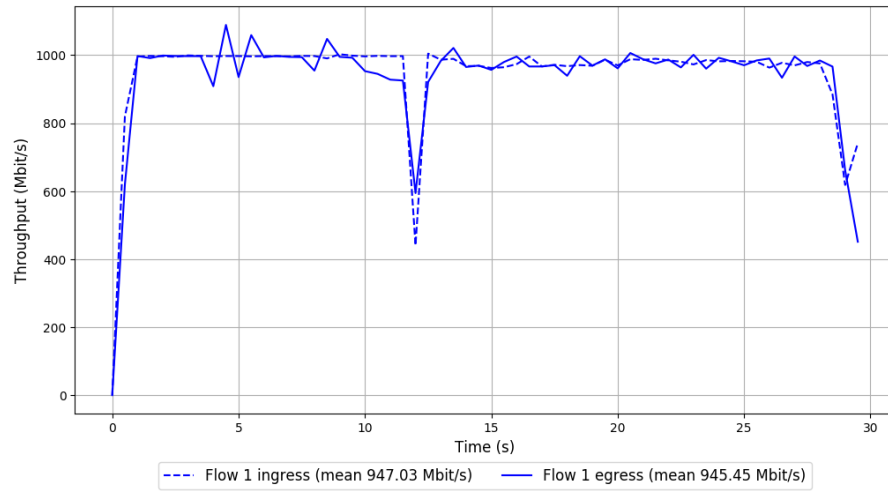
-- Flow 1:

Average throughput: 945.45 Mbit/s

95th percentile per-packet one-way delay: 146.670 ms

Loss rate: 0.91%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-15 23:29:57

End at: 2018-02-15 23:30:27

Below is generated by plot.py at 2018-02-16 04:03:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 944.39 Mbit/s

95th percentile per-packet one-way delay: 164.511 ms

Loss rate: 1.36%

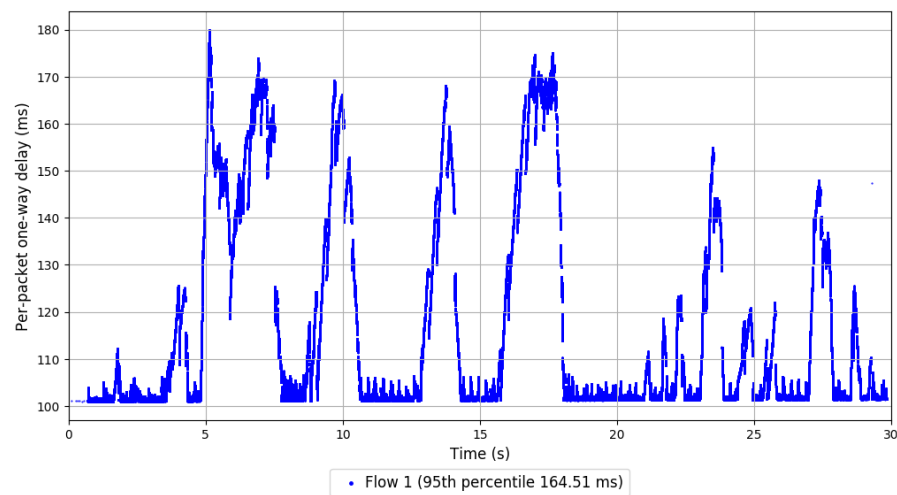
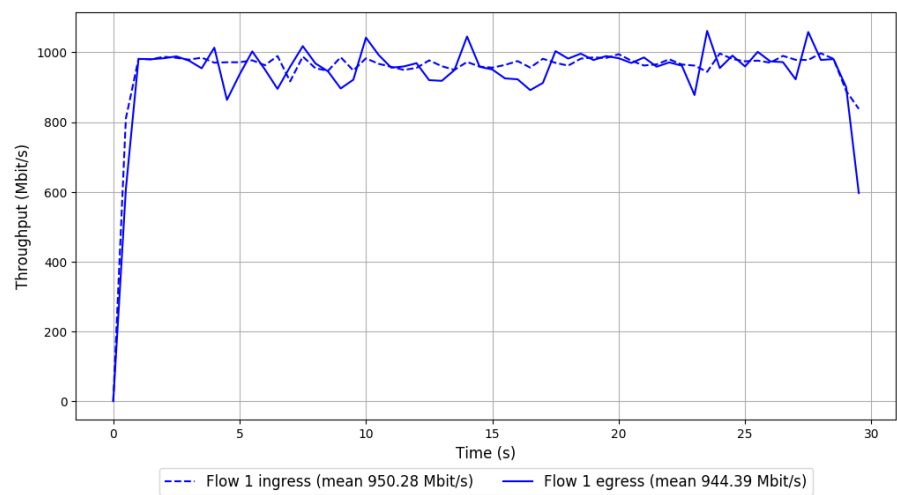
-- Flow 1:

Average throughput: 944.39 Mbit/s

95th percentile per-packet one-way delay: 164.511 ms

Loss rate: 1.36%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-15 23:45:36

End at: 2018-02-15 23:46:06

Below is generated by plot.py at 2018-02-16 04:04:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 951.27 Mbit/s

95th percentile per-packet one-way delay: 169.414 ms

Loss rate: 1.54%

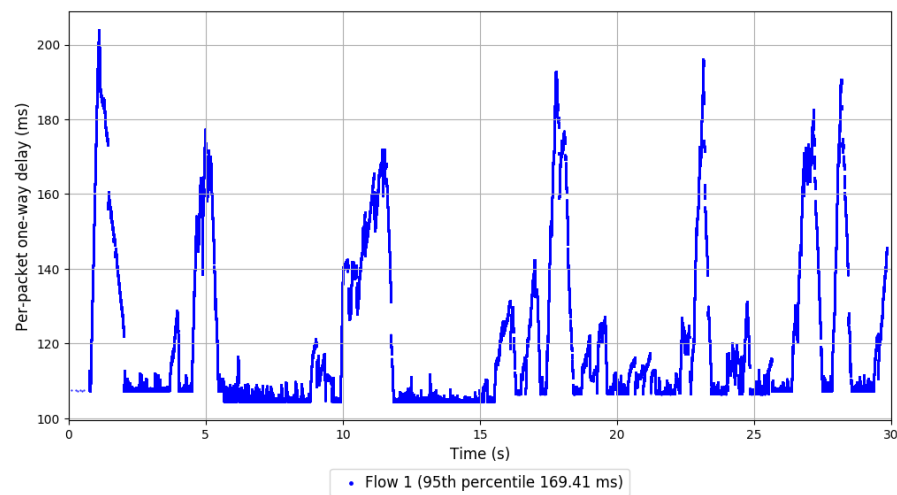
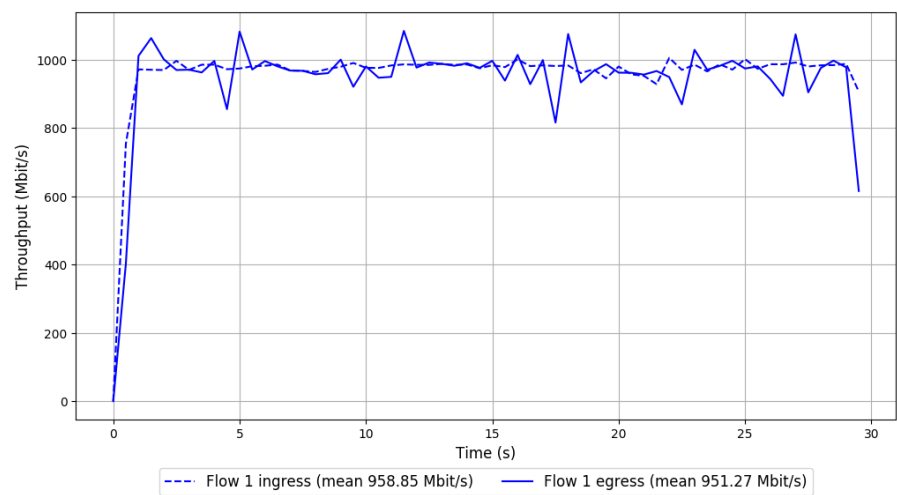
-- Flow 1:

Average throughput: 951.27 Mbit/s

95th percentile per-packet one-way delay: 169.414 ms

Loss rate: 1.54%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-16 00:01:13

End at: 2018-02-16 00:01:43

Below is generated by plot.py at 2018-02-16 04:05:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 940.55 Mbit/s

95th percentile per-packet one-way delay: 173.536 ms

Loss rate: 1.91%

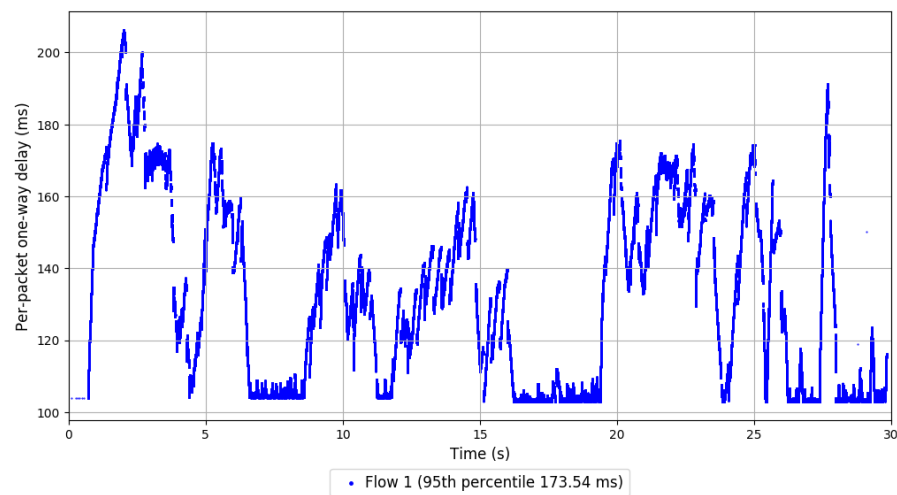
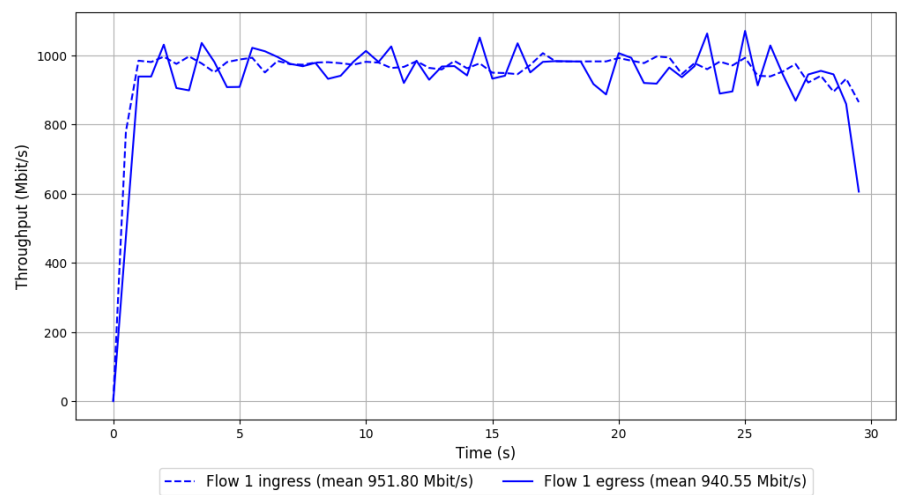
-- Flow 1:

Average throughput: 940.55 Mbit/s

95th percentile per-packet one-way delay: 173.536 ms

Loss rate: 1.91%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-16 00:17:02

End at: 2018-02-16 00:17:32

Below is generated by plot.py at 2018-02-16 04:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 917.82 Mbit/s

95th percentile per-packet one-way delay: 319.035 ms

Loss rate: 1.85%

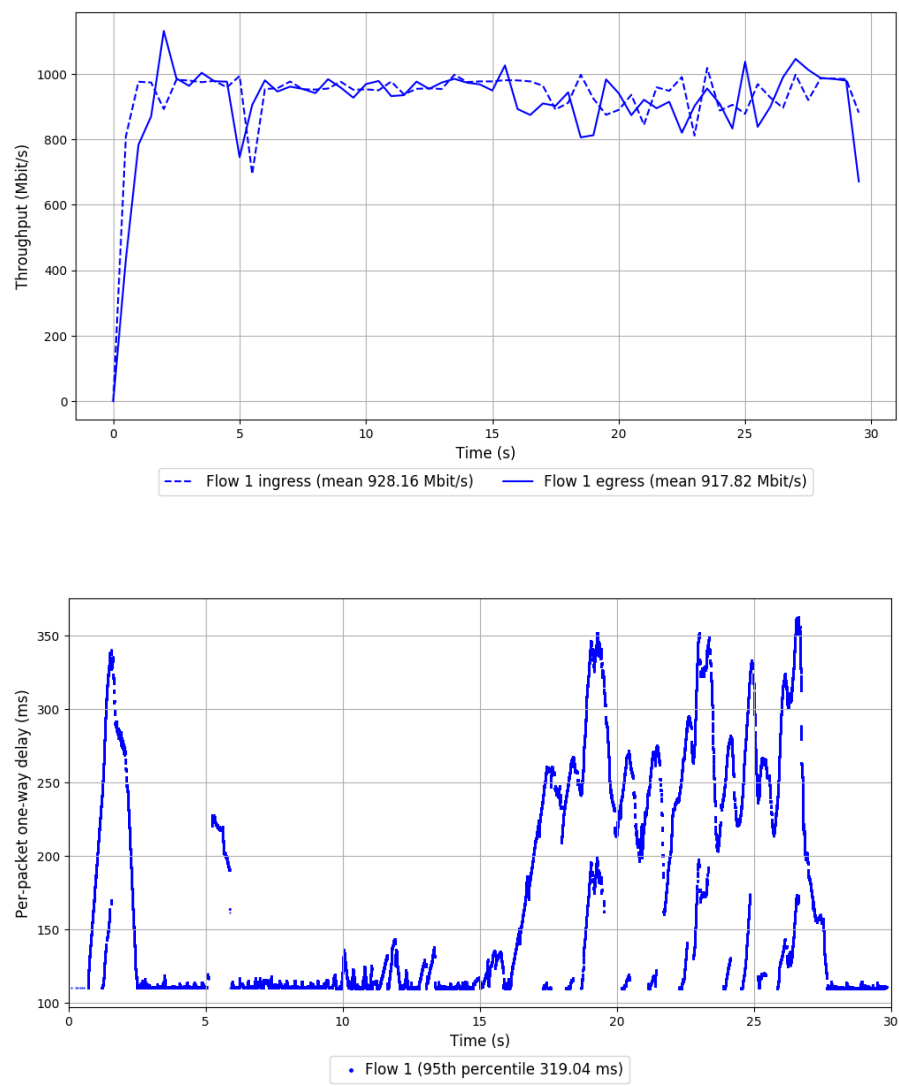
-- Flow 1:

Average throughput: 917.82 Mbit/s

95th percentile per-packet one-way delay: 319.035 ms

Loss rate: 1.85%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-16 00:32:37

End at: 2018-02-16 00:33:07

Below is generated by plot.py at 2018-02-16 04:19:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 937.86 Mbit/s

95th percentile per-packet one-way delay: 272.746 ms

Loss rate: 1.20%

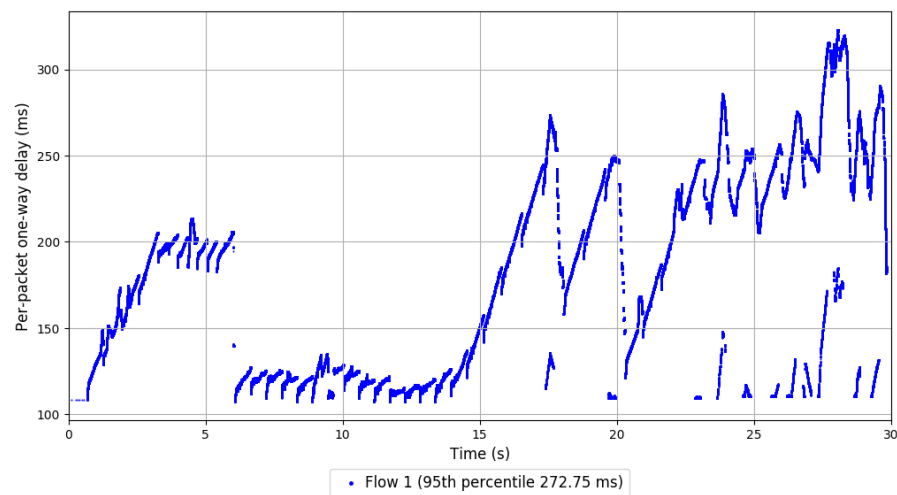
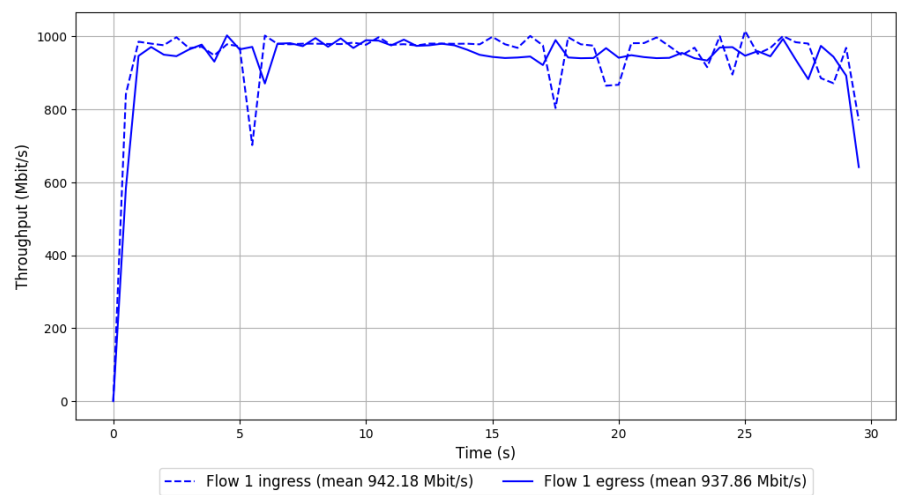
-- Flow 1:

Average throughput: 937.86 Mbit/s

95th percentile per-packet one-way delay: 272.746 ms

Loss rate: 1.20%

Run 10: Report of FillP — Data Link

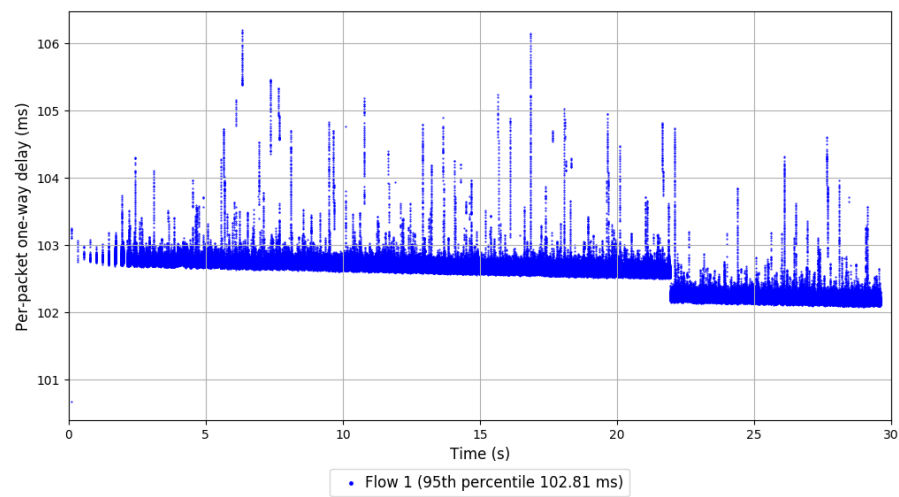
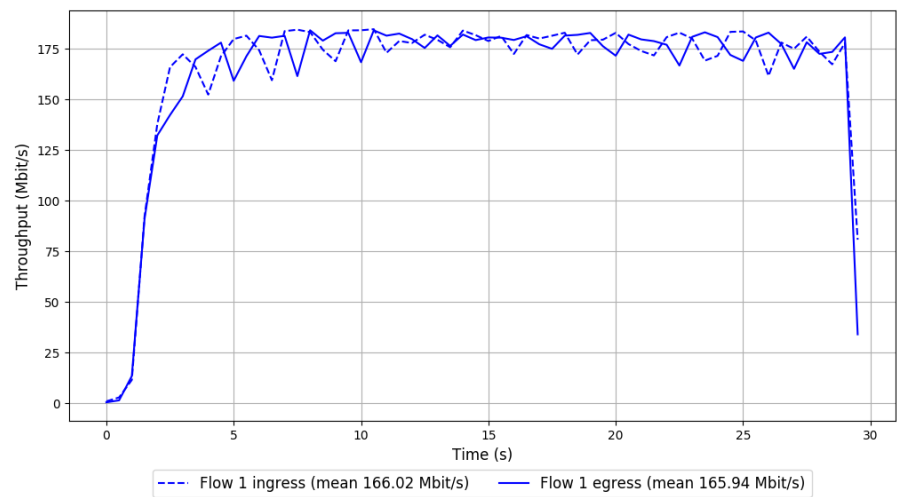


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-15 22:09:23
End at: 2018-02-15 22:09:53

# Below is generated by plot.py at 2018-02-16 04:19:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 165.94 Mbit/s
95th percentile per-packet one-way delay: 102.805 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 165.94 Mbit/s
95th percentile per-packet one-way delay: 102.805 ms
Loss rate: 0.79%
```

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

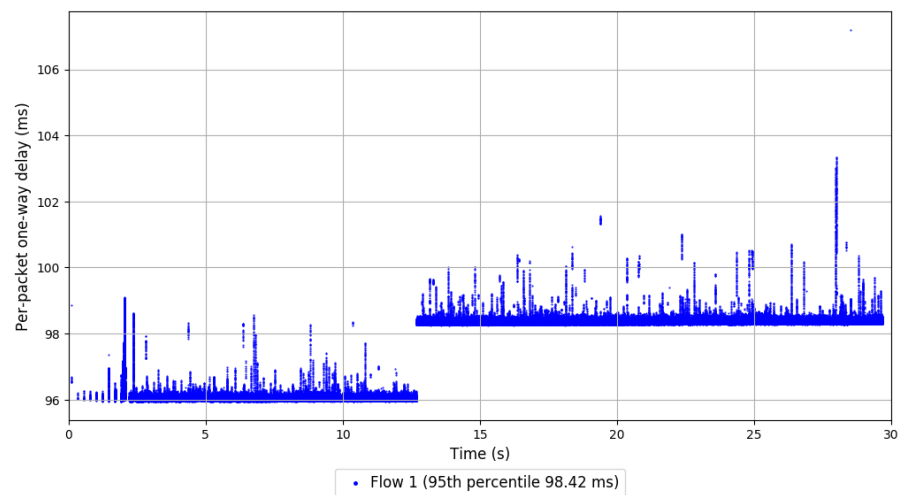
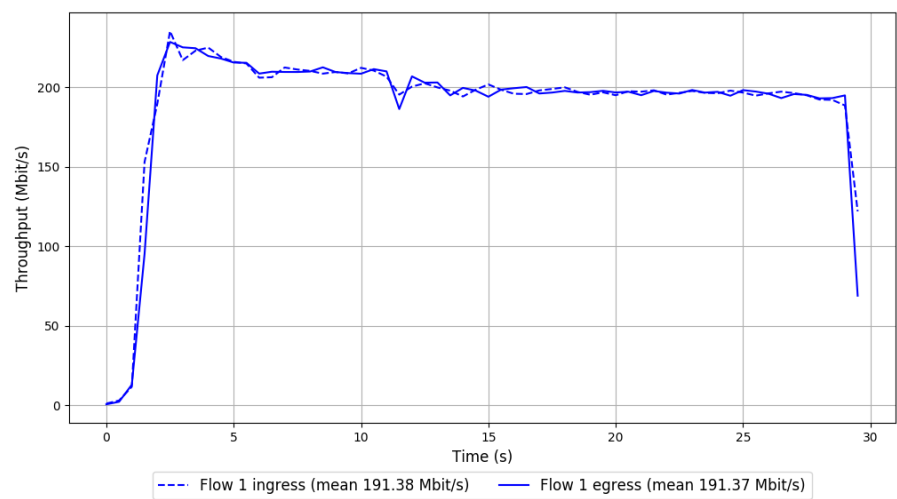


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-02-15 22:26:22
End at: 2018-02-15 22:26:52

# Below is generated by plot.py at 2018-02-16 04:19:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 191.37 Mbit/s
95th percentile per-packet one-way delay: 98.421 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 191.37 Mbit/s
95th percentile per-packet one-way delay: 98.421 ms
Loss rate: 0.75%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-15 22:42:46

End at: 2018-02-15 22:43:16

Below is generated by plot.py at 2018-02-16 04:19:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.88 Mbit/s

95th percentile per-packet one-way delay: 90.339 ms

Loss rate: 0.80%

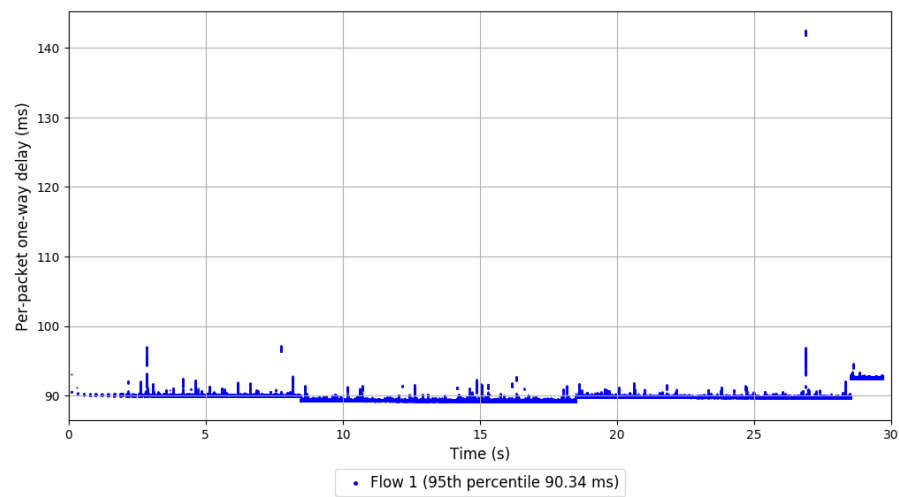
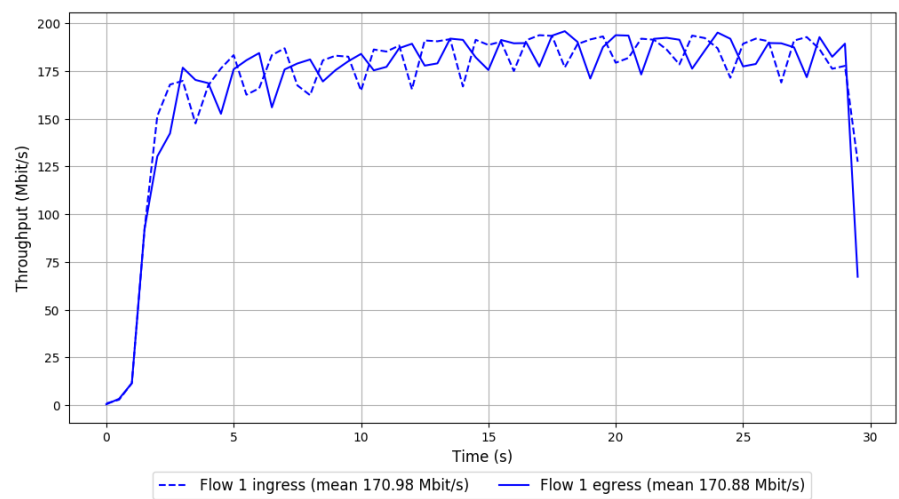
-- Flow 1:

Average throughput: 170.88 Mbit/s

95th percentile per-packet one-way delay: 90.339 ms

Loss rate: 0.80%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-15 22:58:01

End at: 2018-02-15 22:58:31

Below is generated by plot.py at 2018-02-16 04:19:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 140.49 Mbit/s

95th percentile per-packet one-way delay: 95.529 ms

Loss rate: 1.01%

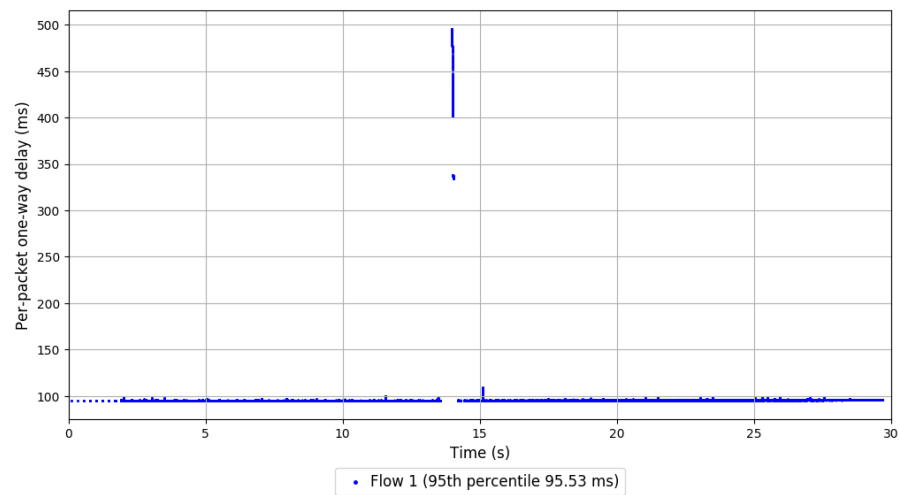
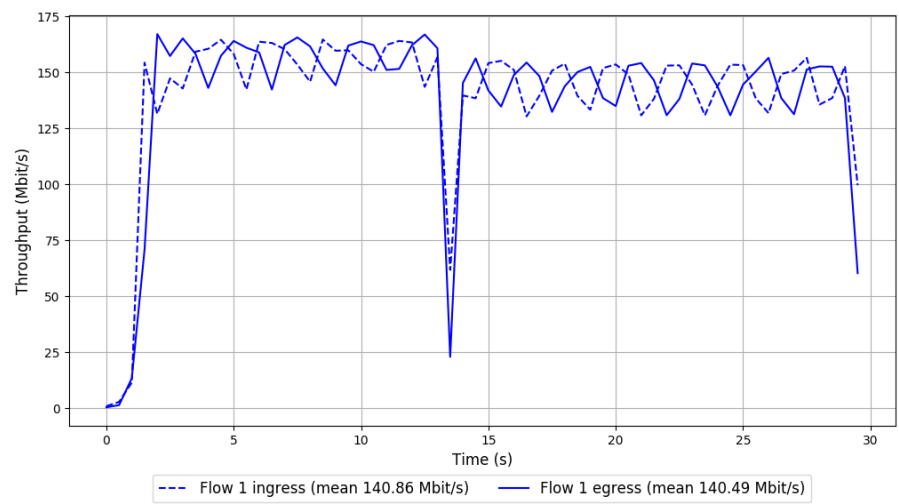
-- Flow 1:

Average throughput: 140.49 Mbit/s

95th percentile per-packet one-way delay: 95.529 ms

Loss rate: 1.01%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-15 23:13:23

End at: 2018-02-15 23:13:53

Below is generated by plot.py at 2018-02-16 04:19:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.52 Mbit/s

95th percentile per-packet one-way delay: 101.974 ms

Loss rate: 0.78%

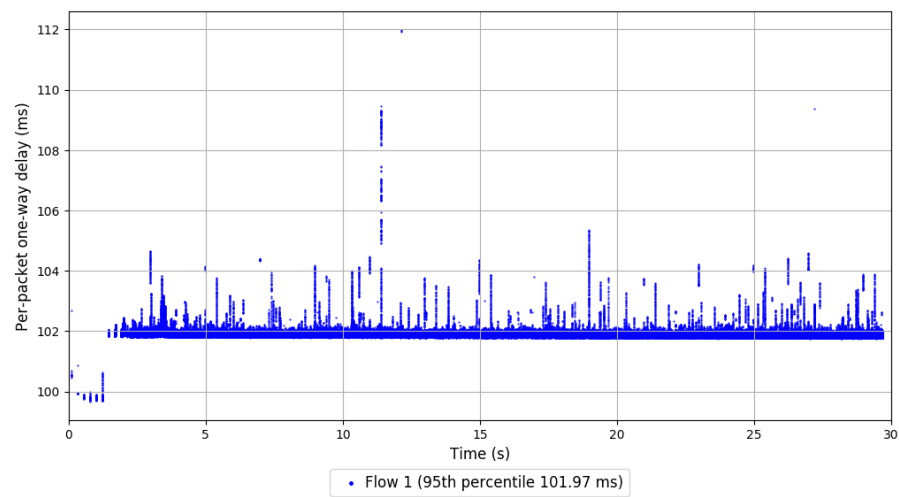
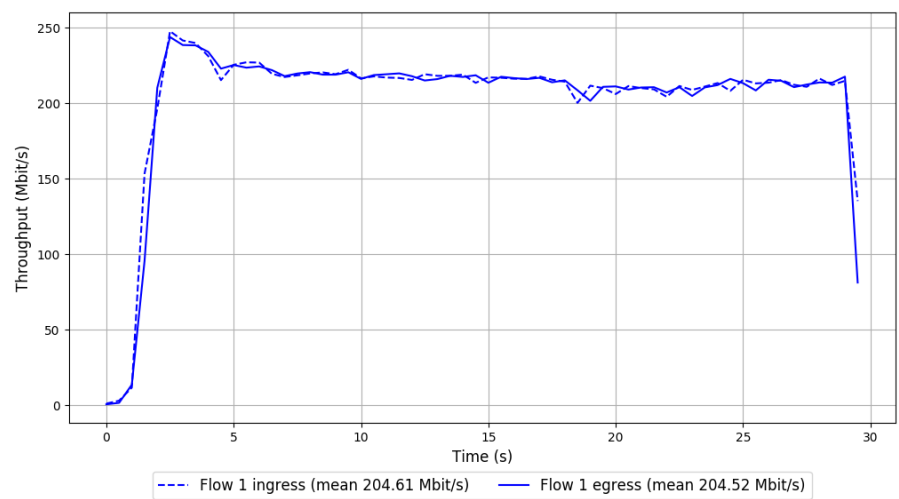
-- Flow 1:

Average throughput: 204.52 Mbit/s

95th percentile per-packet one-way delay: 101.974 ms

Loss rate: 0.78%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-15 23:29:03

End at: 2018-02-15 23:29:33

Below is generated by plot.py at 2018-02-16 04:19:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.63 Mbit/s

95th percentile per-packet one-way delay: 102.119 ms

Loss rate: 0.76%

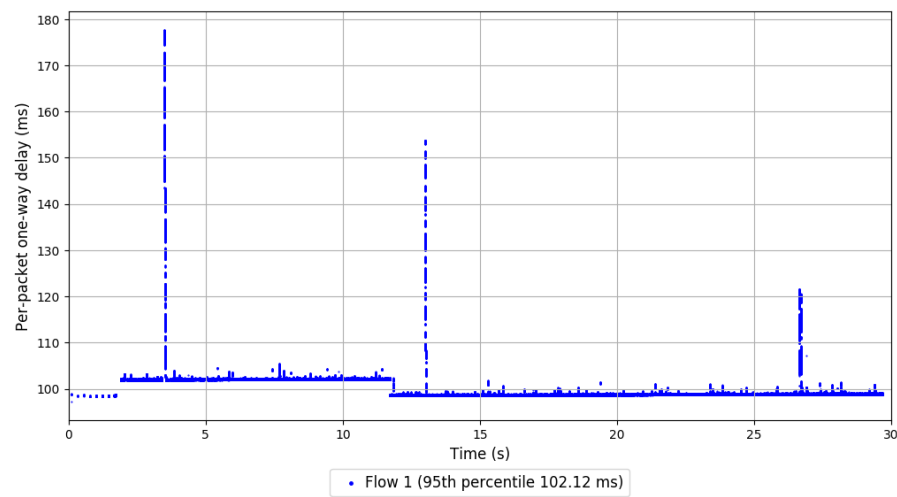
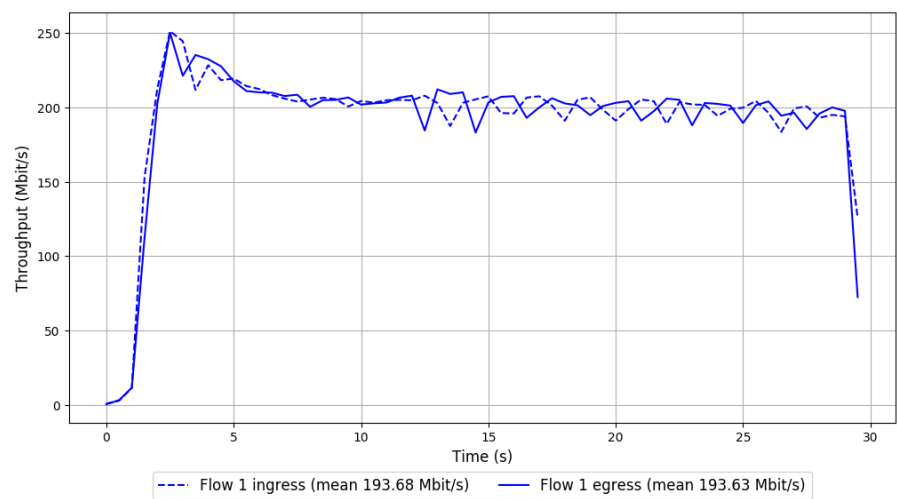
-- Flow 1:

Average throughput: 193.63 Mbit/s

95th percentile per-packet one-way delay: 102.119 ms

Loss rate: 0.76%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-15 23:44:41

End at: 2018-02-15 23:45:11

Below is generated by plot.py at 2018-02-16 04:19:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.94 Mbit/s

95th percentile per-packet one-way delay: 106.931 ms

Loss rate: 0.77%

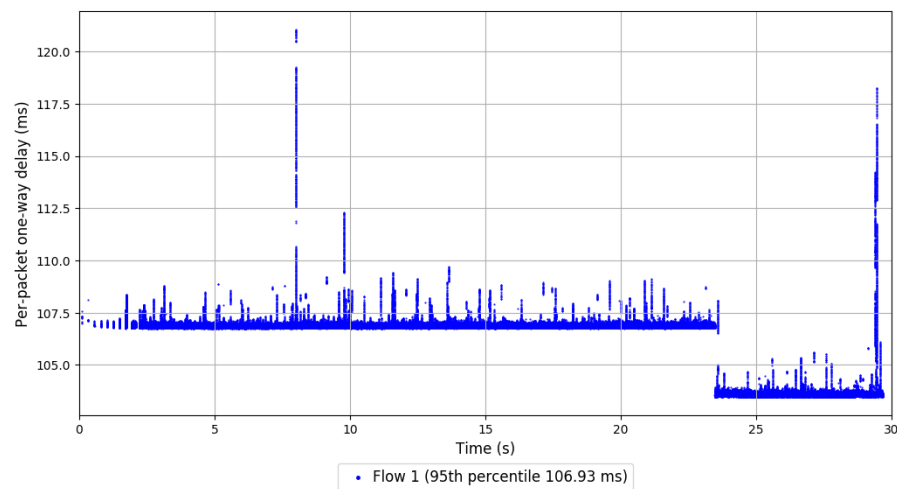
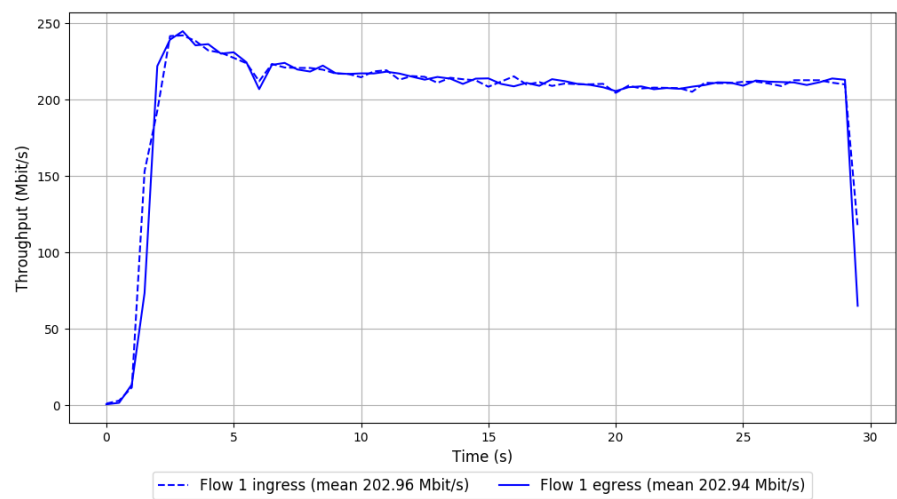
-- Flow 1:

Average throughput: 202.94 Mbit/s

95th percentile per-packet one-way delay: 106.931 ms

Loss rate: 0.77%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-16 00:00:18

End at: 2018-02-16 00:00:48

Below is generated by plot.py at 2018-02-16 04:19:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.84 Mbit/s

95th percentile per-packet one-way delay: 104.226 ms

Loss rate: 0.75%

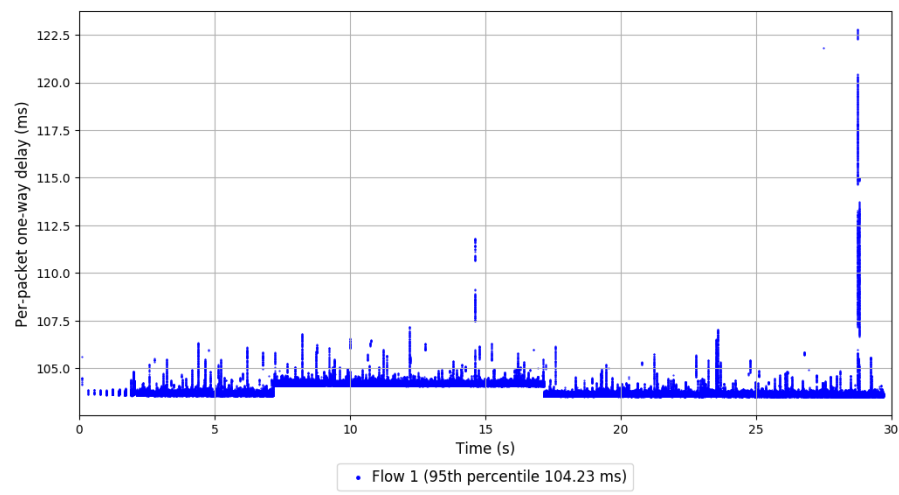
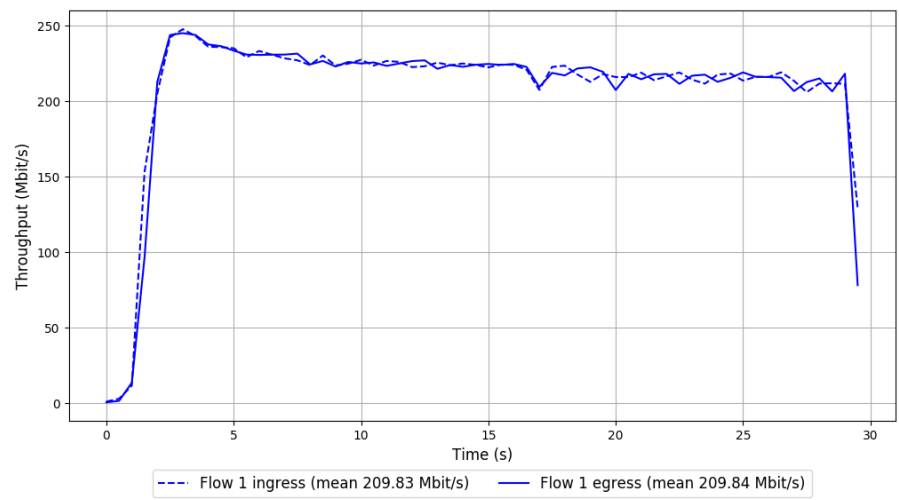
-- Flow 1:

Average throughput: 209.84 Mbit/s

95th percentile per-packet one-way delay: 104.226 ms

Loss rate: 0.75%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-16 00:16:07

End at: 2018-02-16 00:16:37

Below is generated by plot.py at 2018-02-16 04:19:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.06 Mbit/s

95th percentile per-packet one-way delay: 108.406 ms

Loss rate: 0.76%

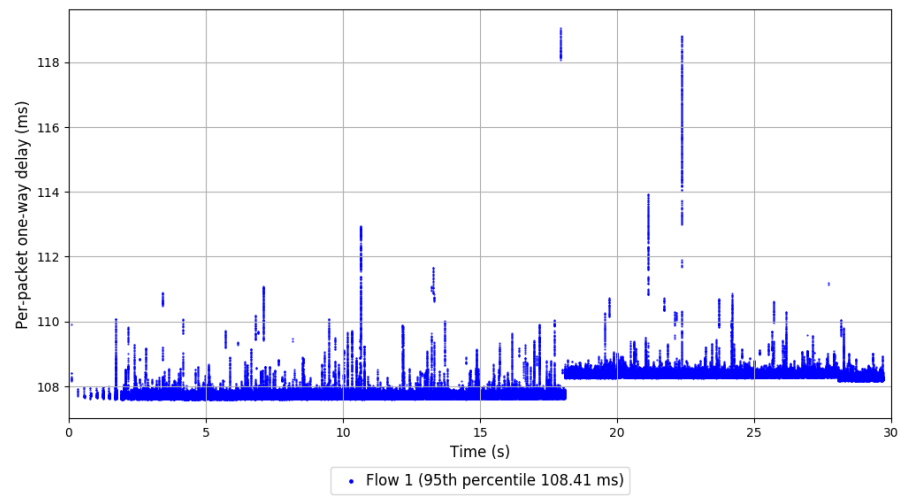
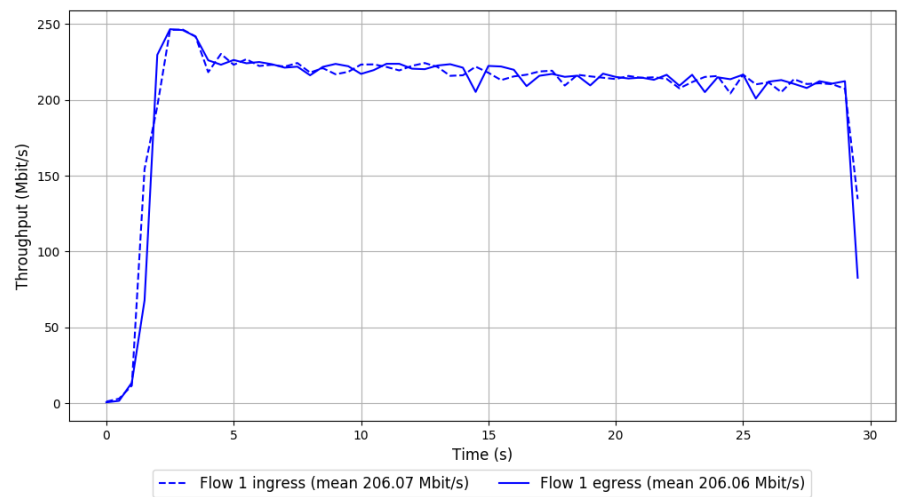
-- Flow 1:

Average throughput: 206.06 Mbit/s

95th percentile per-packet one-way delay: 108.406 ms

Loss rate: 0.76%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-16 00:31:43

End at: 2018-02-16 00:32:13

Below is generated by plot.py at 2018-02-16 04:19:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.67 Mbit/s

95th percentile per-packet one-way delay: 108.483 ms

Loss rate: 0.72%

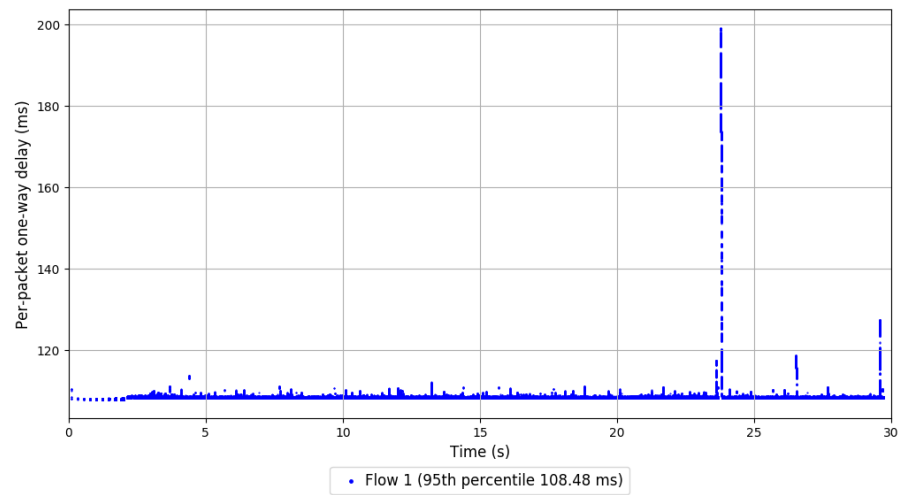
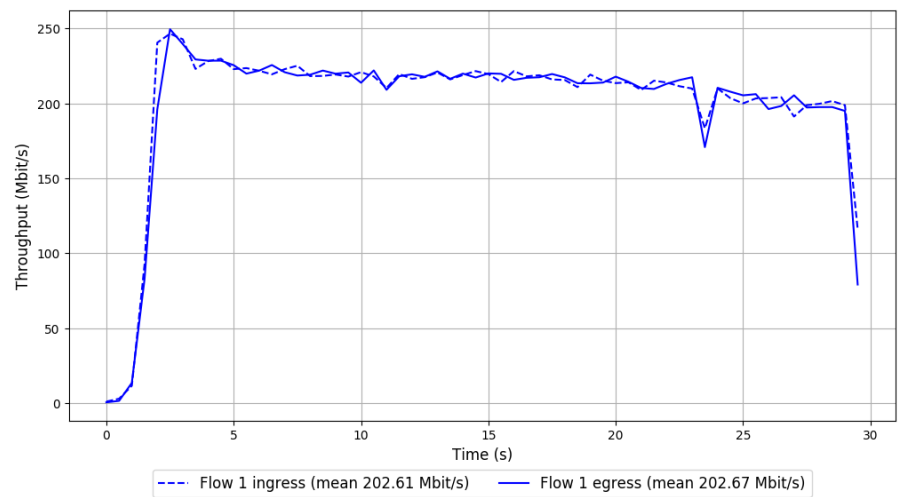
-- Flow 1:

Average throughput: 202.67 Mbit/s

95th percentile per-packet one-way delay: 108.483 ms

Loss rate: 0.72%

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

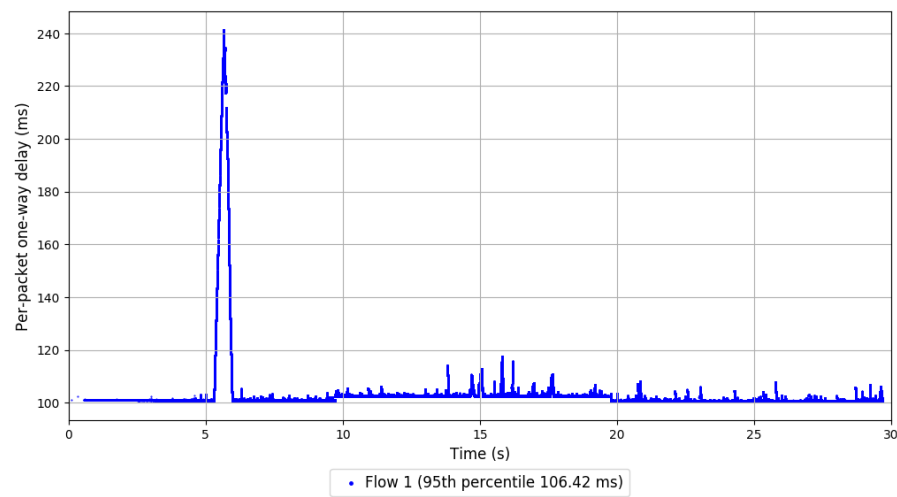
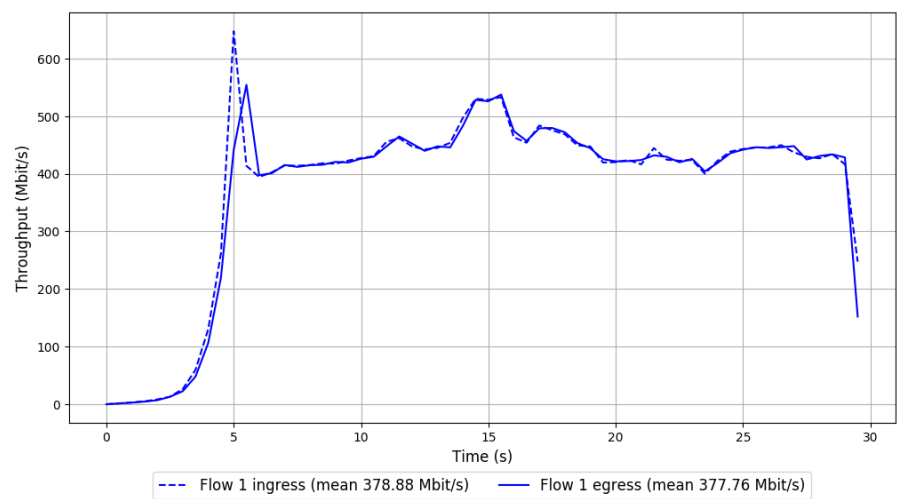


```
Run 1: Statistics of Vivace-latency

Start at: 2018-02-15 22:00:31
End at: 2018-02-15 22:01:01

# Below is generated by plot.py at 2018-02-16 04:19:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 377.76 Mbit/s
95th percentile per-packet one-way delay: 106.424 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 377.76 Mbit/s
95th percentile per-packet one-way delay: 106.424 ms
Loss rate: 1.05%
```

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-15 22:17:25

End at: 2018-02-15 22:17:55

Below is generated by plot.py at 2018-02-16 04:19:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 379.98 Mbit/s

95th percentile per-packet one-way delay: 98.705 ms

Loss rate: 0.80%

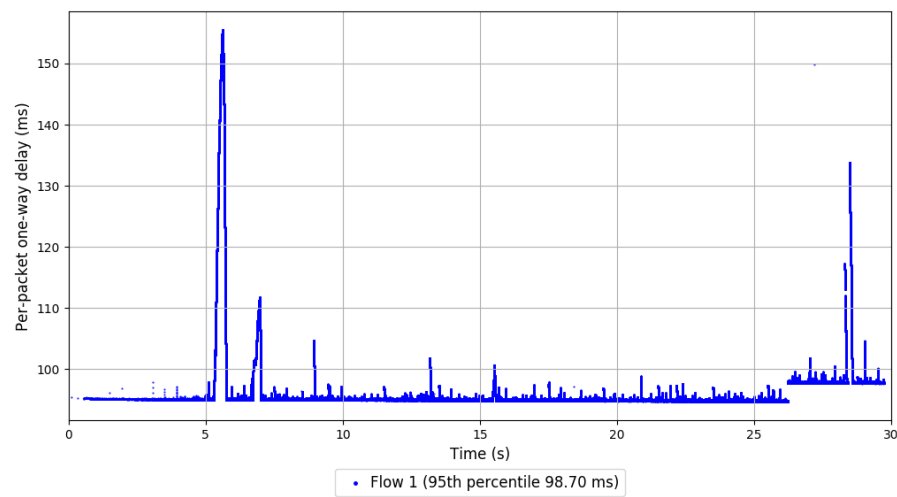
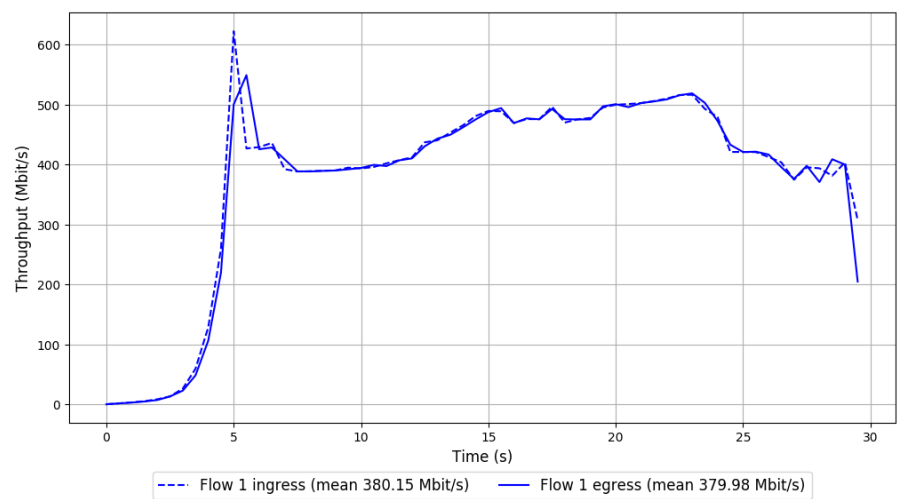
-- Flow 1:

Average throughput: 379.98 Mbit/s

95th percentile per-packet one-way delay: 98.705 ms

Loss rate: 0.80%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-15 22:34:23

End at: 2018-02-15 22:34:53

Below is generated by plot.py at 2018-02-16 04:19:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 336.25 Mbit/s

95th percentile per-packet one-way delay: 150.265 ms

Loss rate: 0.67%

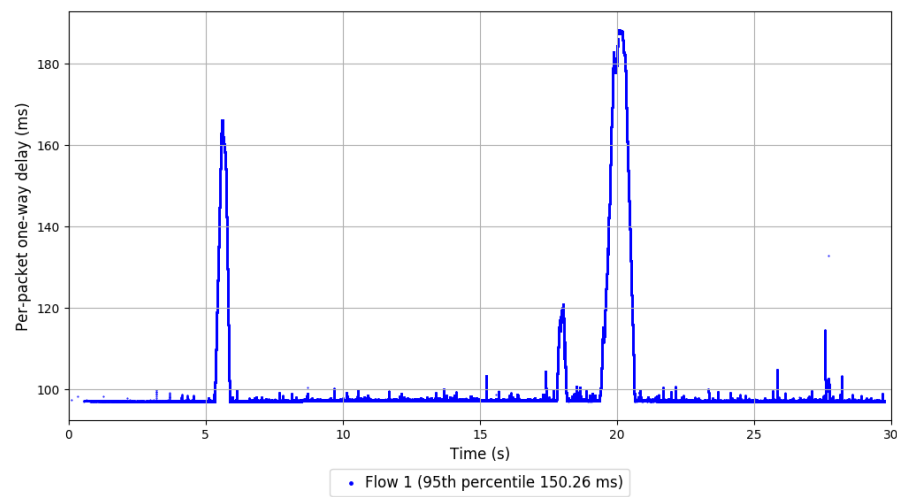
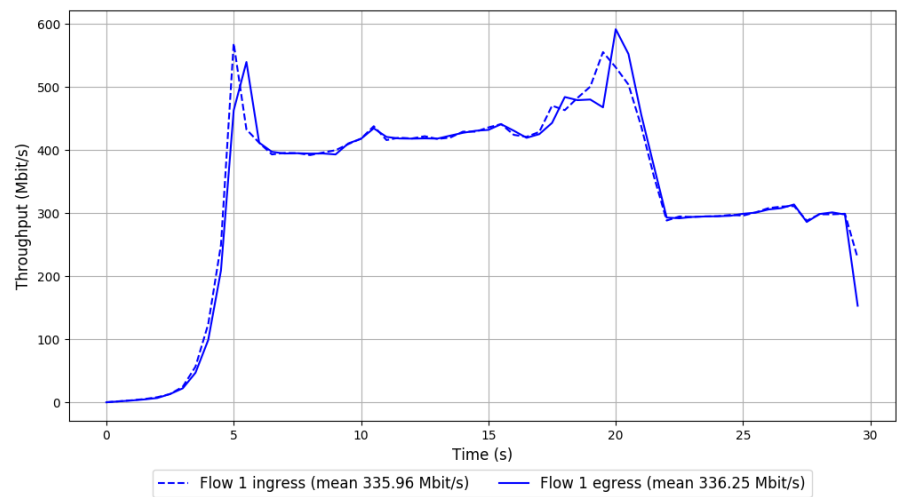
-- Flow 1:

Average throughput: 336.25 Mbit/s

95th percentile per-packet one-way delay: 150.265 ms

Loss rate: 0.67%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-15 22:49:45

End at: 2018-02-15 22:50:15

Below is generated by plot.py at 2018-02-16 04:19:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 344.25 Mbit/s

95th percentile per-packet one-way delay: 91.250 ms

Loss rate: 0.85%

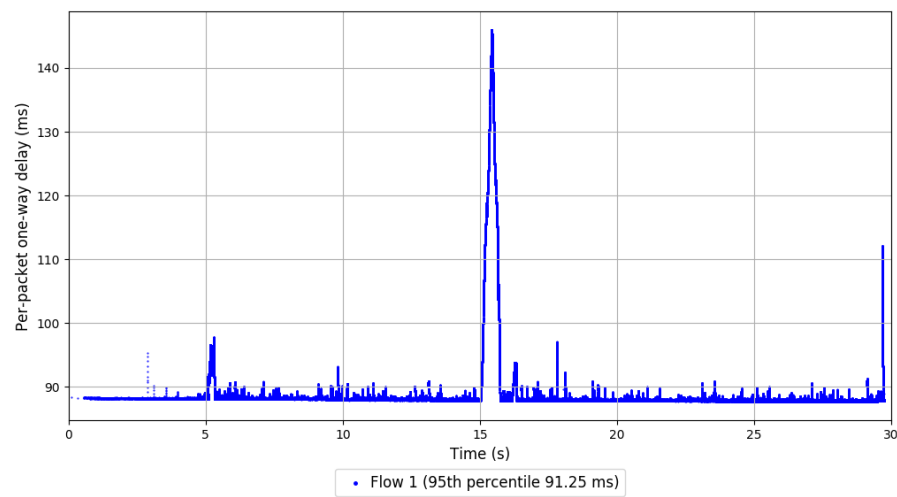
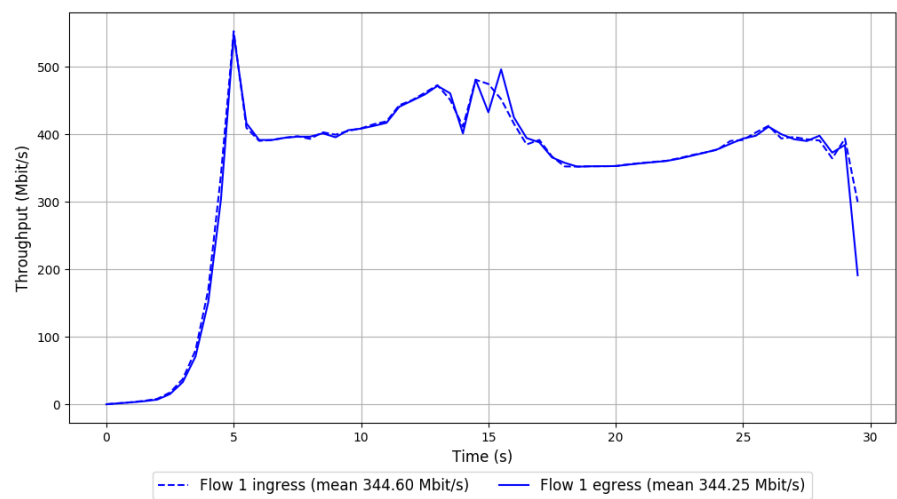
-- Flow 1:

Average throughput: 344.25 Mbit/s

95th percentile per-packet one-way delay: 91.250 ms

Loss rate: 0.85%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-15 23:04:59

End at: 2018-02-15 23:05:29

Below is generated by plot.py at 2018-02-16 04:19:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 383.60 Mbit/s

95th percentile per-packet one-way delay: 99.506 ms

Loss rate: 0.91%

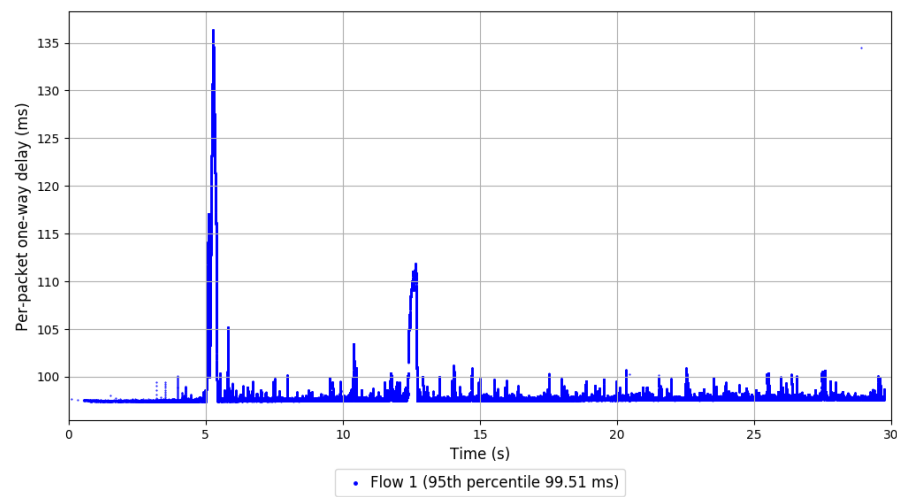
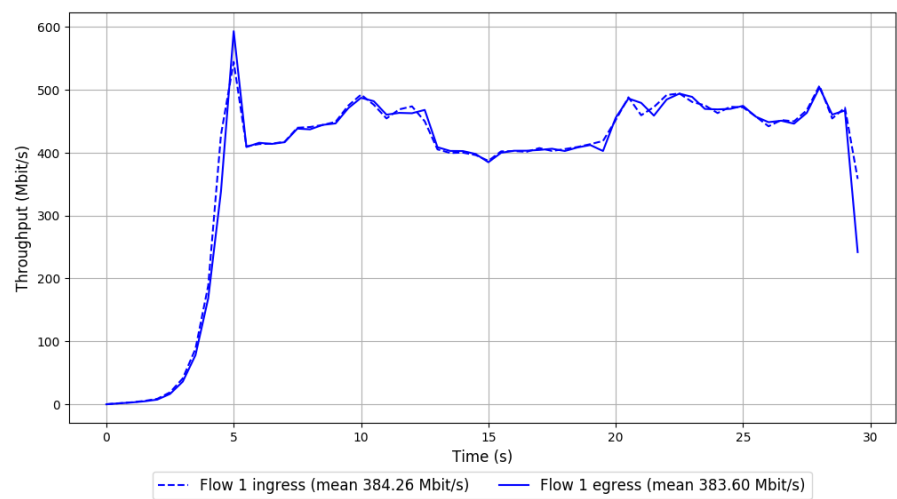
-- Flow 1:

Average throughput: 383.60 Mbit/s

95th percentile per-packet one-way delay: 99.506 ms

Loss rate: 0.91%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-15 23:20:37

End at: 2018-02-15 23:21:07

Below is generated by plot.py at 2018-02-16 04:19:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 369.08 Mbit/s

95th percentile per-packet one-way delay: 100.411 ms

Loss rate: 0.73%

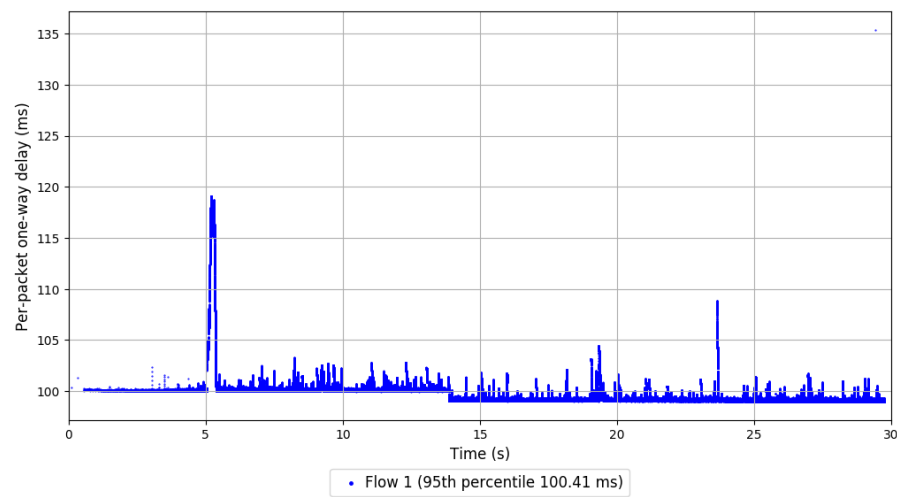
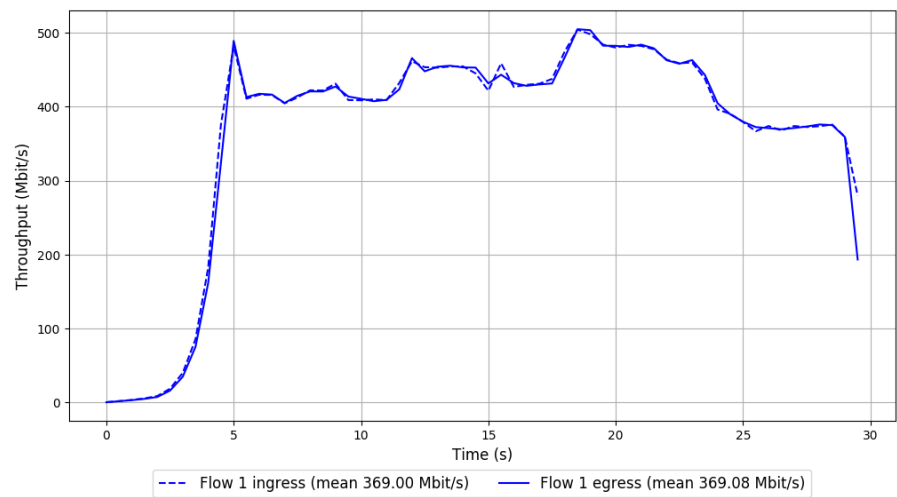
-- Flow 1:

Average throughput: 369.08 Mbit/s

95th percentile per-packet one-way delay: 100.411 ms

Loss rate: 0.73%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-15 23:36:14

End at: 2018-02-15 23:36:44

Below is generated by plot.py at 2018-02-16 04:20:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 388.06 Mbit/s

95th percentile per-packet one-way delay: 106.898 ms

Loss rate: 0.81%

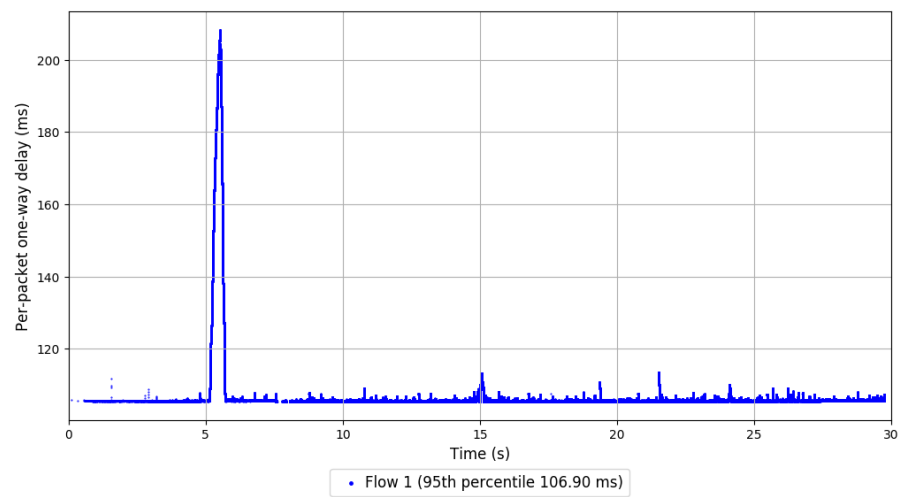
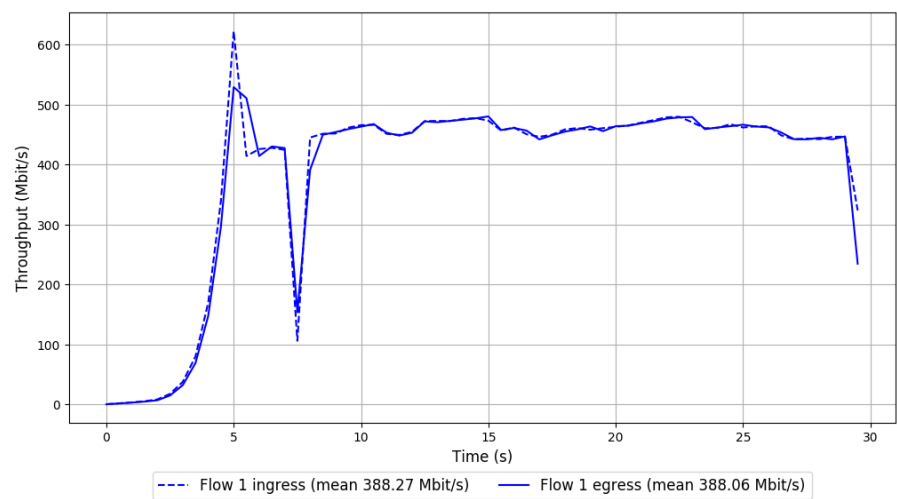
-- Flow 1:

Average throughput: 388.06 Mbit/s

95th percentile per-packet one-way delay: 106.898 ms

Loss rate: 0.81%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-15 23:51:56

End at: 2018-02-15 23:52:26

Below is generated by plot.py at 2018-02-16 04:20:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 357.58 Mbit/s

95th percentile per-packet one-way delay: 106.321 ms

Loss rate: 1.00%

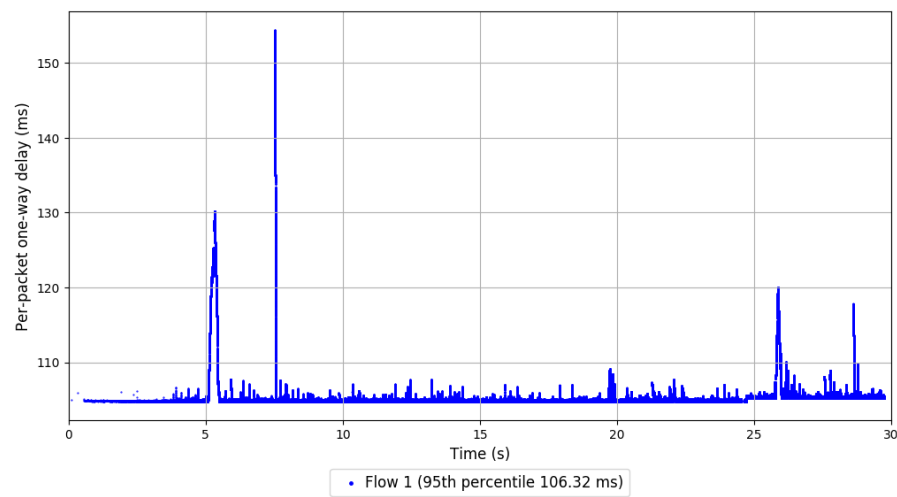
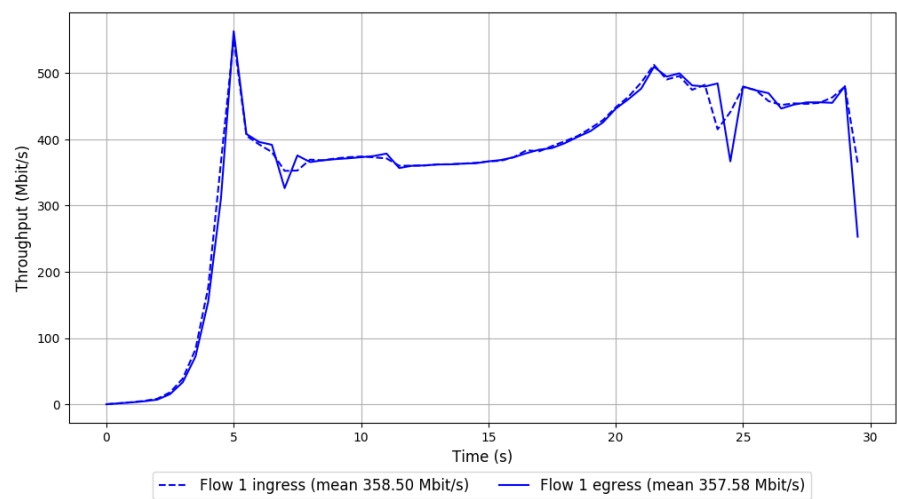
-- Flow 1:

Average throughput: 357.58 Mbit/s

95th percentile per-packet one-way delay: 106.321 ms

Loss rate: 1.00%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-16 00:07:40

End at: 2018-02-16 00:08:11

Below is generated by plot.py at 2018-02-16 04:20:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 359.63 Mbit/s

95th percentile per-packet one-way delay: 108.657 ms

Loss rate: 0.90%

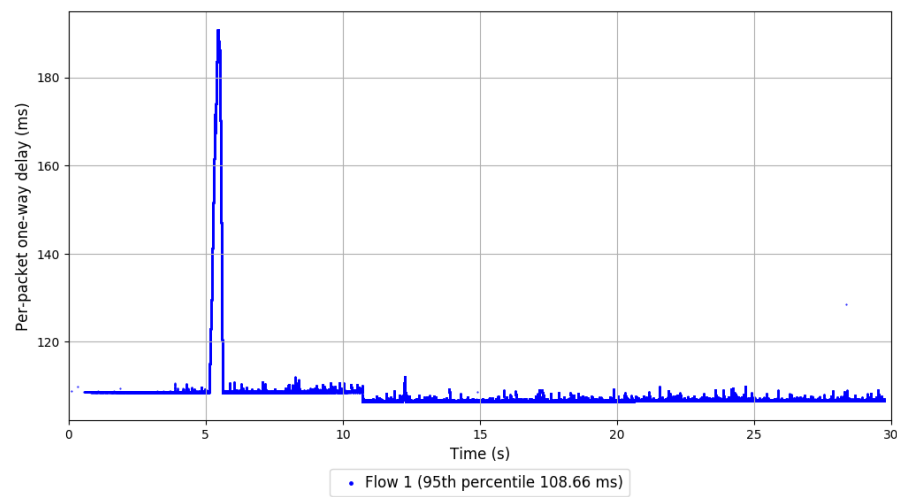
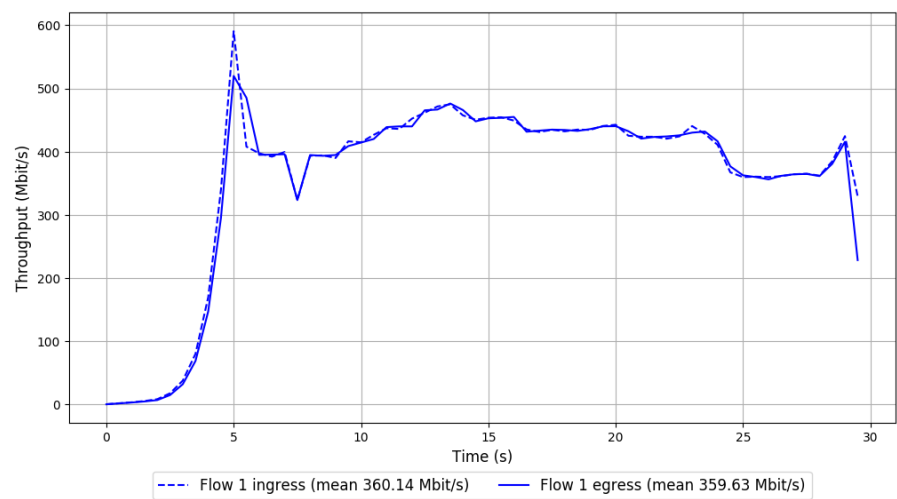
-- Flow 1:

Average throughput: 359.63 Mbit/s

95th percentile per-packet one-way delay: 108.657 ms

Loss rate: 0.90%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-16 00:23:14

End at: 2018-02-16 00:23:44

Below is generated by plot.py at 2018-02-16 04:21:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 400.55 Mbit/s

95th percentile per-packet one-way delay: 112.113 ms

Loss rate: 0.82%

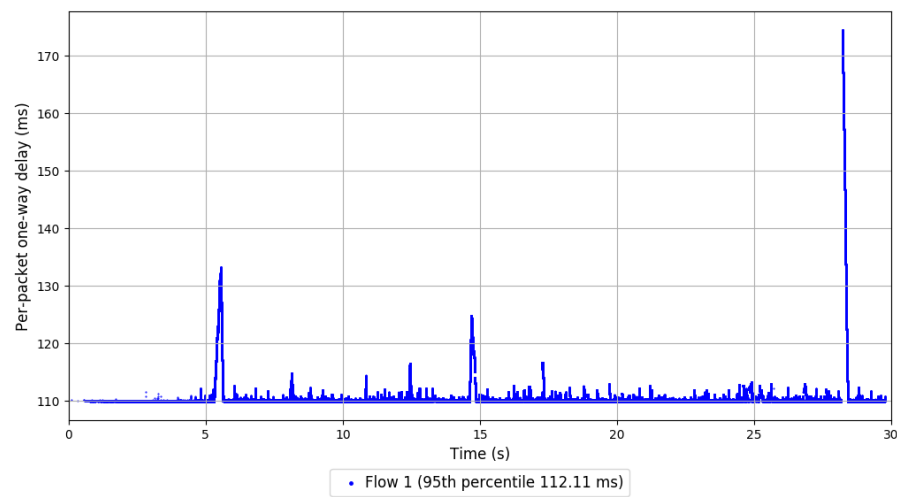
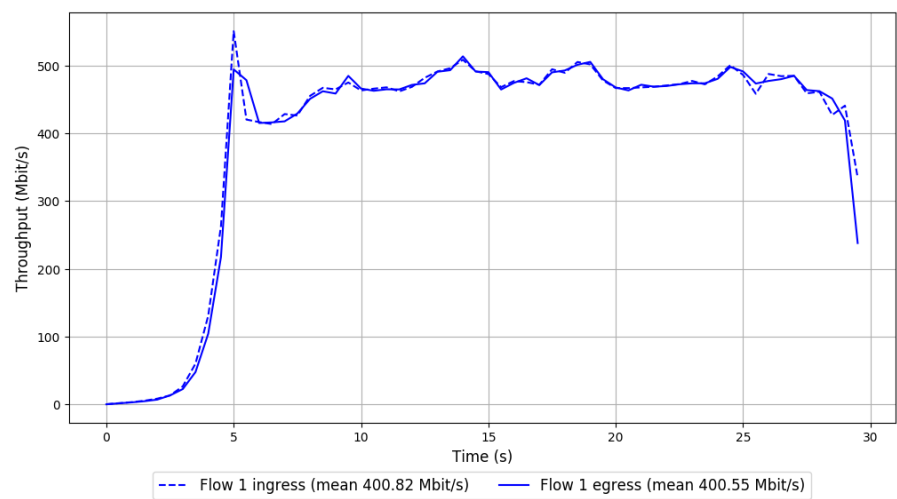
-- Flow 1:

Average throughput: 400.55 Mbit/s

95th percentile per-packet one-way delay: 112.113 ms

Loss rate: 0.82%

Run 10: Report of Vivace-latency — Data Link

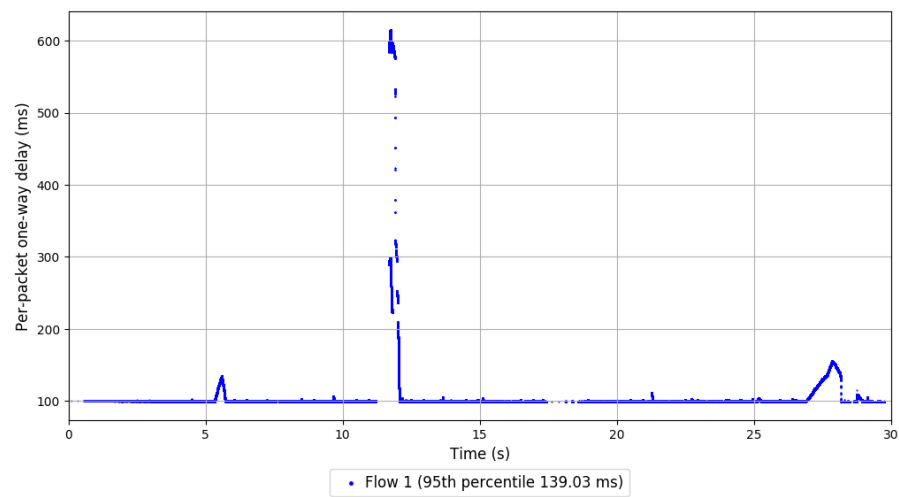
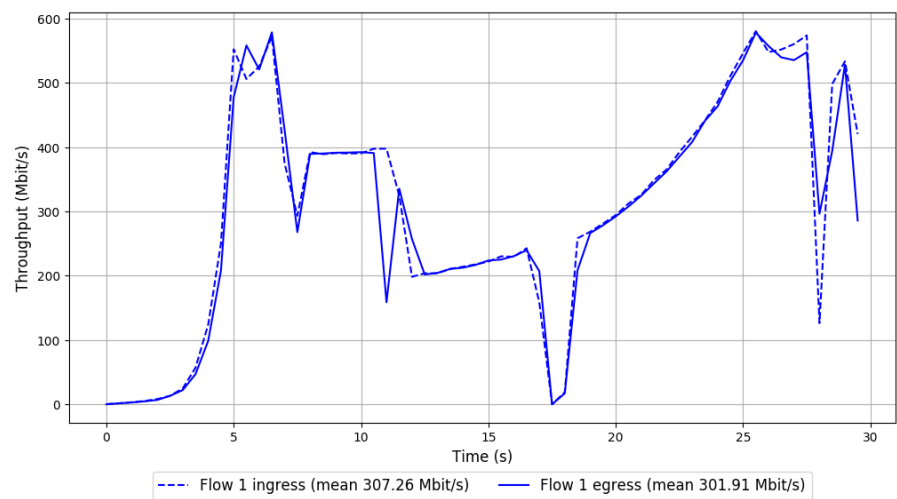


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-15 22:13:02
End at: 2018-02-15 22:13:32

# Below is generated by plot.py at 2018-02-16 04:21:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 301.91 Mbit/s
95th percentile per-packet one-way delay: 139.026 ms
Loss rate: 2.48%
-- Flow 1:
Average throughput: 301.91 Mbit/s
95th percentile per-packet one-way delay: 139.026 ms
Loss rate: 2.48%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-15 22:30:08

End at: 2018-02-15 22:30:38

Below is generated by plot.py at 2018-02-16 04:22:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 381.97 Mbit/s

95th percentile per-packet one-way delay: 115.119 ms

Loss rate: 0.93%

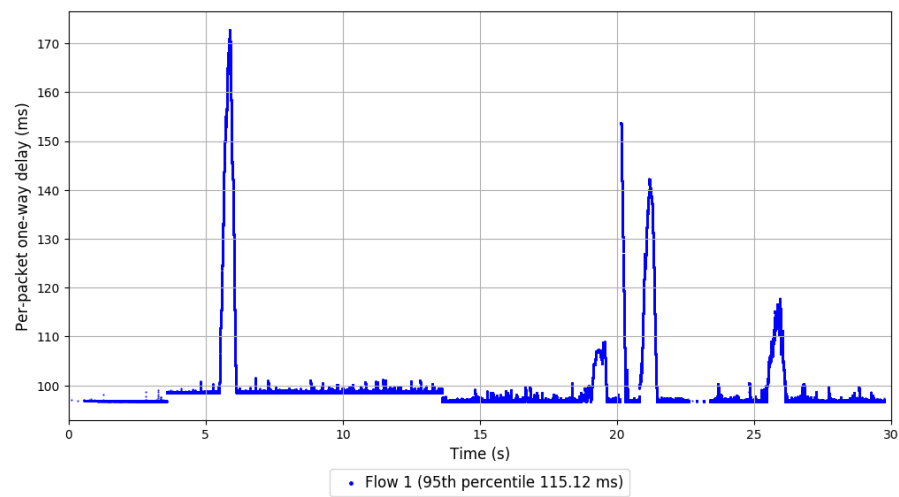
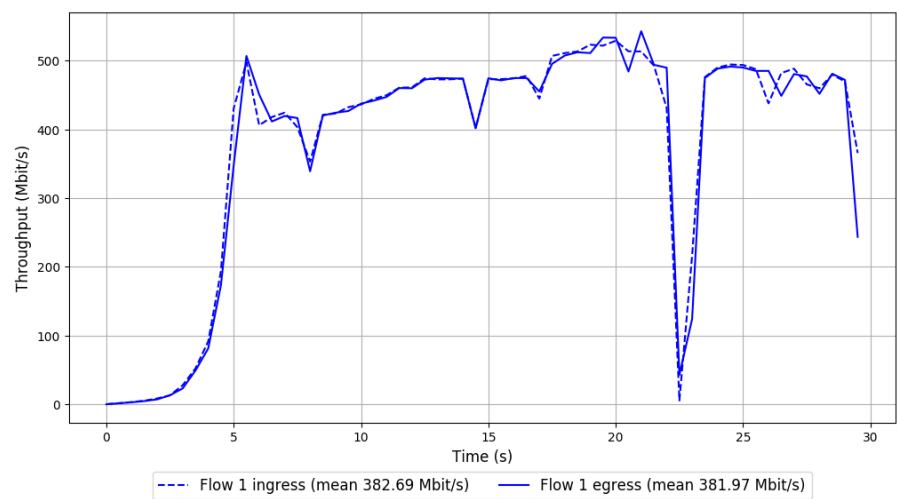
-- Flow 1:

Average throughput: 381.97 Mbit/s

95th percentile per-packet one-way delay: 115.119 ms

Loss rate: 0.93%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-15 22:45:47

End at: 2018-02-15 22:46:17

Below is generated by plot.py at 2018-02-16 04:23:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 289.75 Mbit/s

95th percentile per-packet one-way delay: 93.422 ms

Loss rate: 1.25%

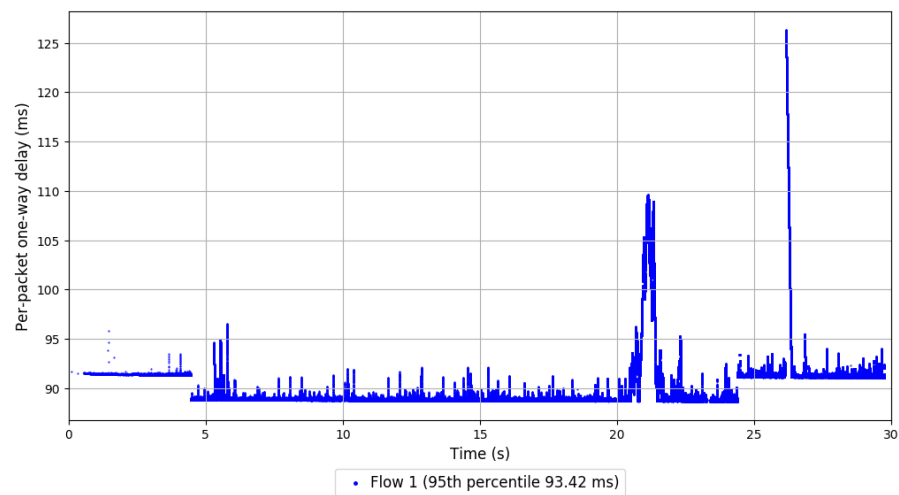
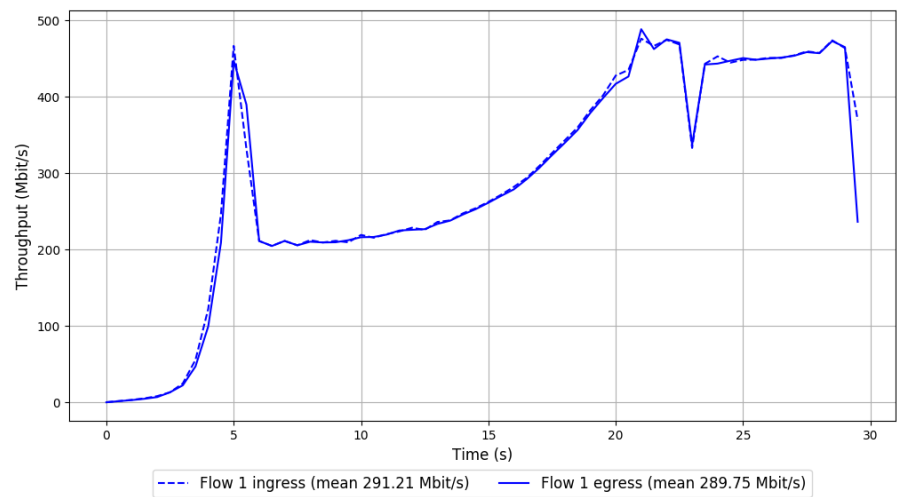
-- Flow 1:

Average throughput: 289.75 Mbit/s

95th percentile per-packet one-way delay: 93.422 ms

Loss rate: 1.25%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-15 23:01:03

End at: 2018-02-15 23:01:34

Below is generated by plot.py at 2018-02-16 04:23:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 252.32 Mbit/s

95th percentile per-packet one-way delay: 188.587 ms

Loss rate: 2.49%

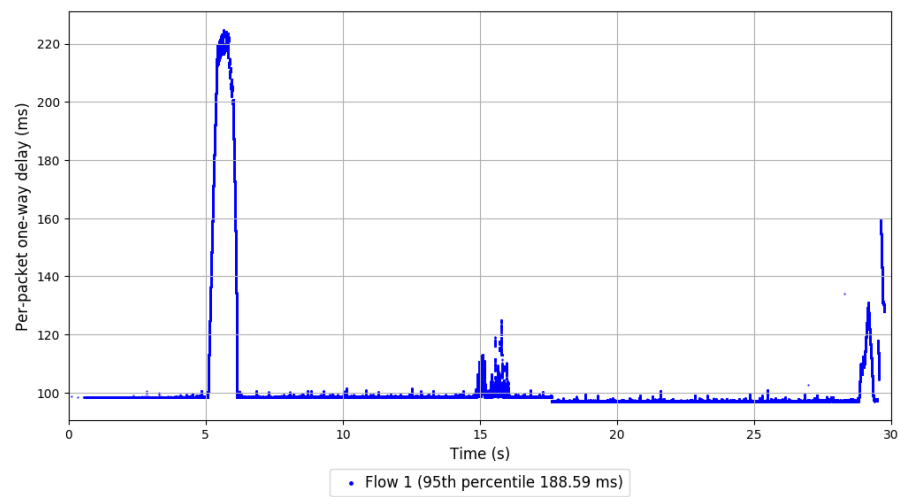
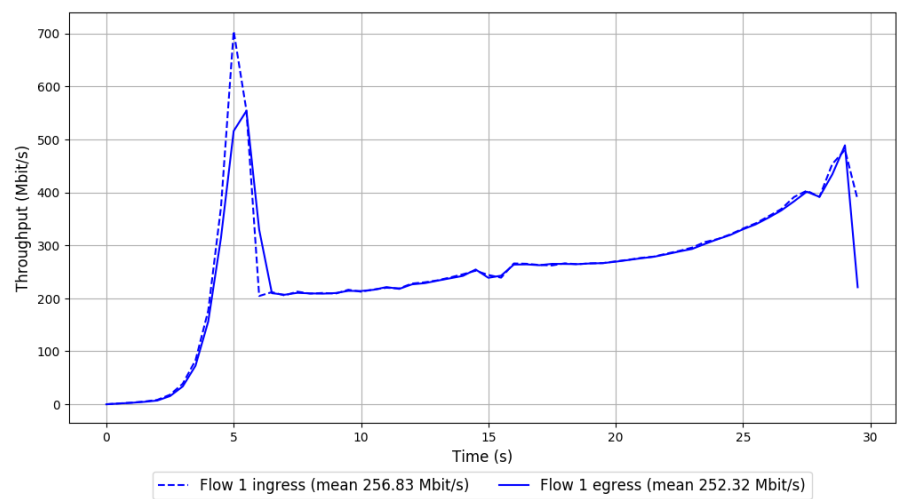
-- Flow 1:

Average throughput: 252.32 Mbit/s

95th percentile per-packet one-way delay: 188.587 ms

Loss rate: 2.49%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-15 23:16:26

End at: 2018-02-15 23:16:56

Below is generated by plot.py at 2018-02-16 04:26:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 374.00 Mbit/s

95th percentile per-packet one-way delay: 102.905 ms

Loss rate: 0.90%

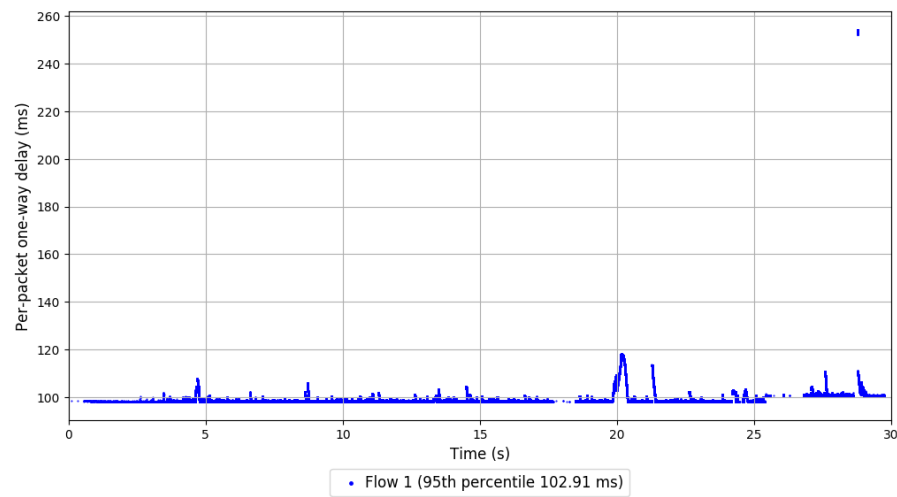
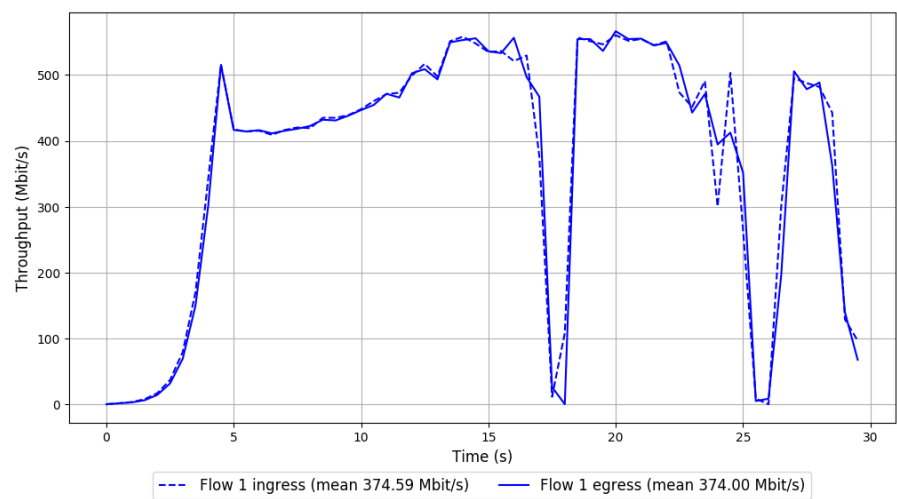
-- Flow 1:

Average throughput: 374.00 Mbit/s

95th percentile per-packet one-way delay: 102.905 ms

Loss rate: 0.90%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-15 23:32:15

End at: 2018-02-15 23:32:45

Below is generated by plot.py at 2018-02-16 04:26:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 290.83 Mbit/s

95th percentile per-packet one-way delay: 104.122 ms

Loss rate: 1.35%

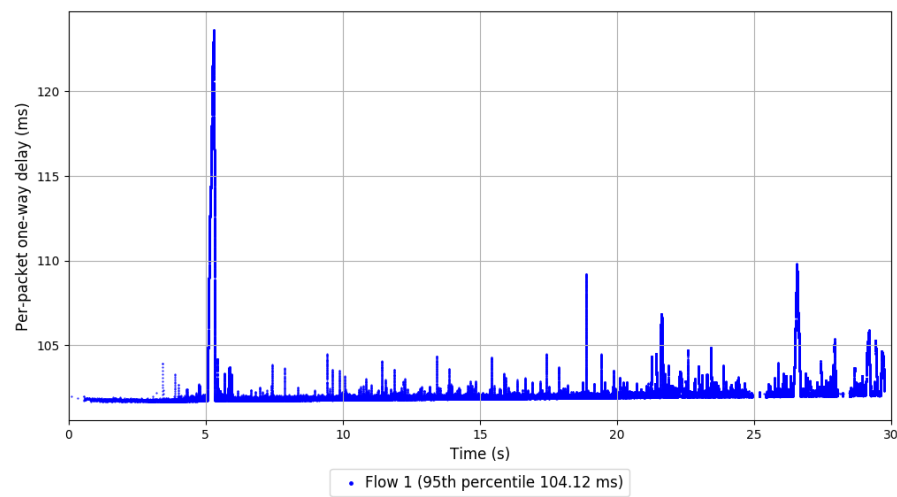
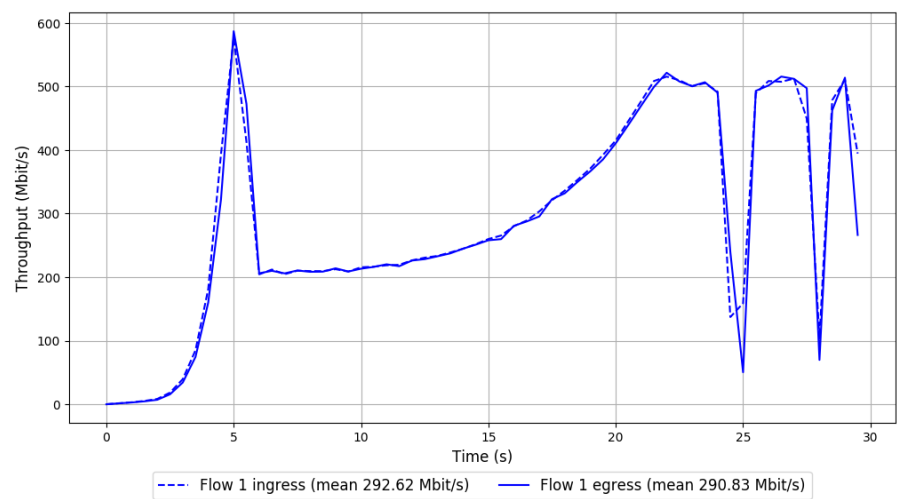
-- Flow 1:

Average throughput: 290.83 Mbit/s

95th percentile per-packet one-way delay: 104.122 ms

Loss rate: 1.35%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-15 23:47:41

End at: 2018-02-15 23:48:11

Below is generated by plot.py at 2018-02-16 04:26:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 396.96 Mbit/s

95th percentile per-packet one-way delay: 207.388 ms

Loss rate: 1.24%

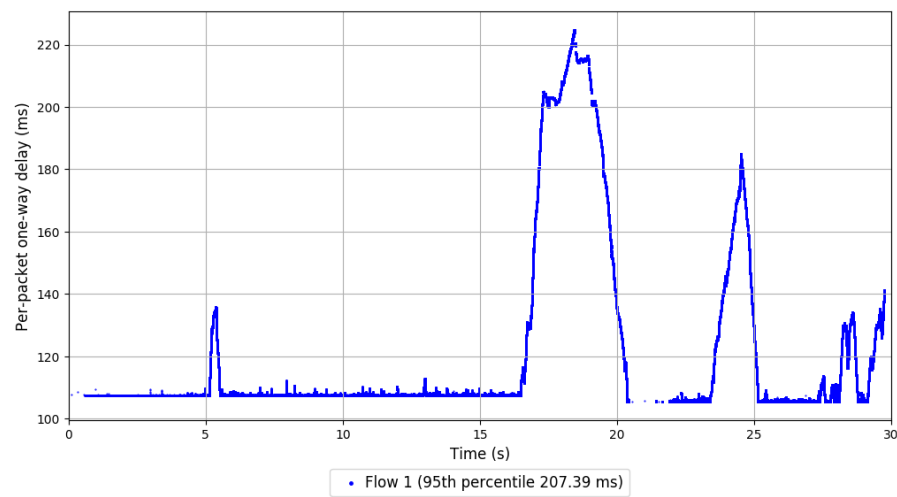
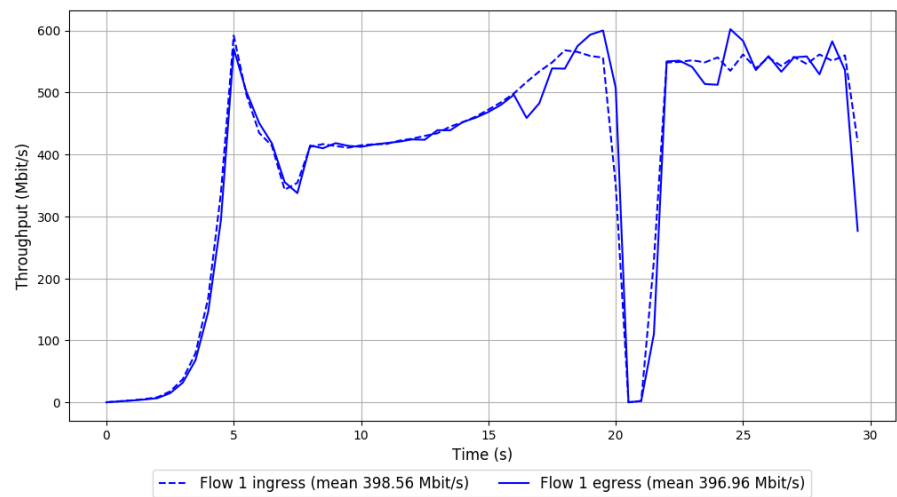
-- Flow 1:

Average throughput: 396.96 Mbit/s

95th percentile per-packet one-way delay: 207.388 ms

Loss rate: 1.24%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-16 00:03:21

End at: 2018-02-16 00:03:51

Below is generated by plot.py at 2018-02-16 04:26:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 335.55 Mbit/s

95th percentile per-packet one-way delay: 226.178 ms

Loss rate: 2.87%

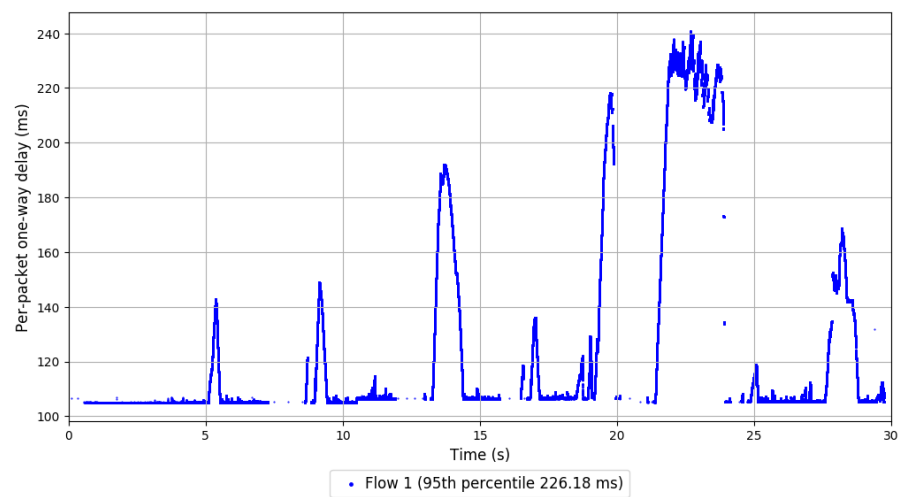
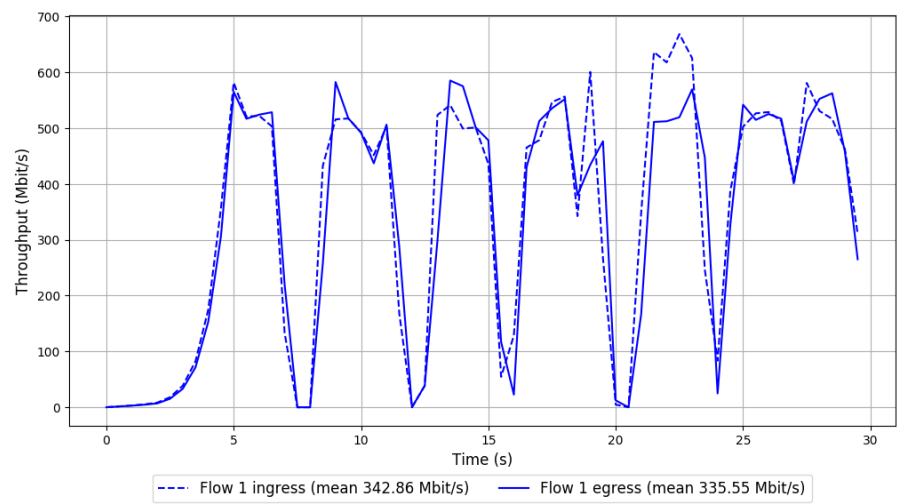
-- Flow 1:

Average throughput: 335.55 Mbit/s

95th percentile per-packet one-way delay: 226.178 ms

Loss rate: 2.87%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-16 00:19:08

End at: 2018-02-16 00:19:38

Below is generated by plot.py at 2018-02-16 04:27:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 376.67 Mbit/s

95th percentile per-packet one-way delay: 179.873 ms

Loss rate: 0.74%

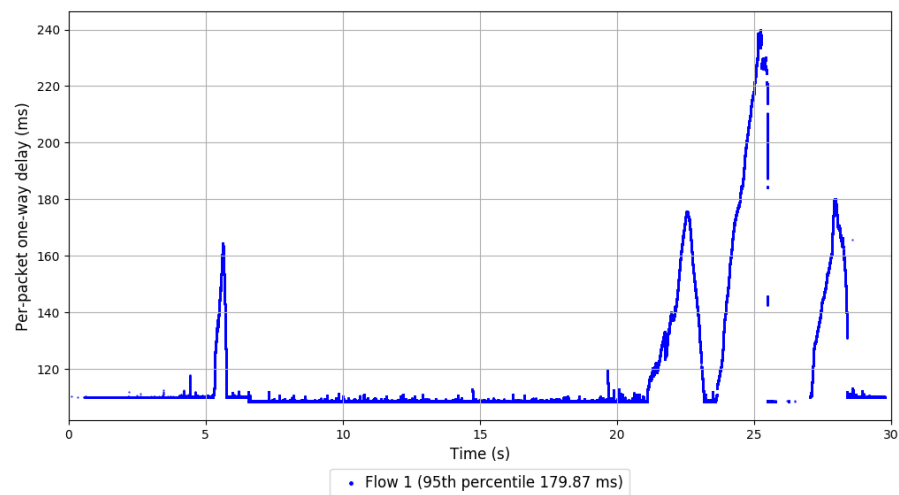
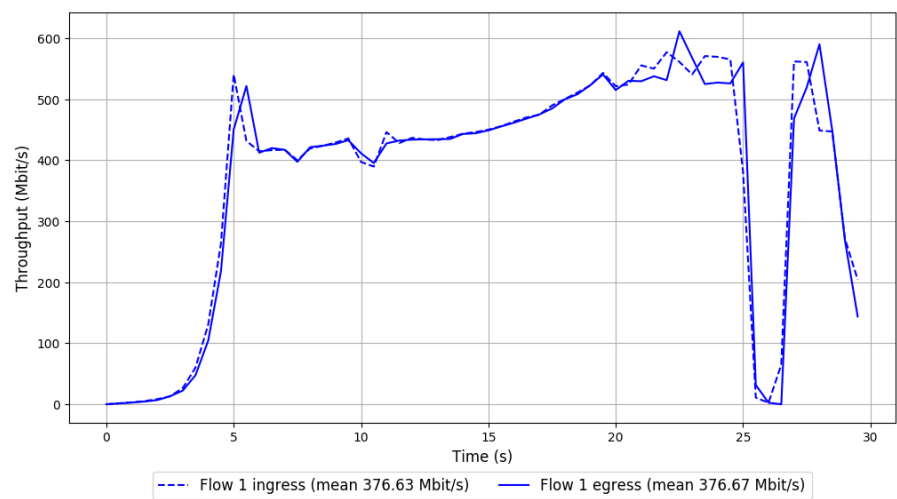
-- Flow 1:

Average throughput: 376.67 Mbit/s

95th percentile per-packet one-way delay: 179.873 ms

Loss rate: 0.74%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-16 00:34:45

End at: 2018-02-16 00:35:15

Below is generated by plot.py at 2018-02-16 04:27:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 299.45 Mbit/s

95th percentile per-packet one-way delay: 131.929 ms

Loss rate: 1.95%

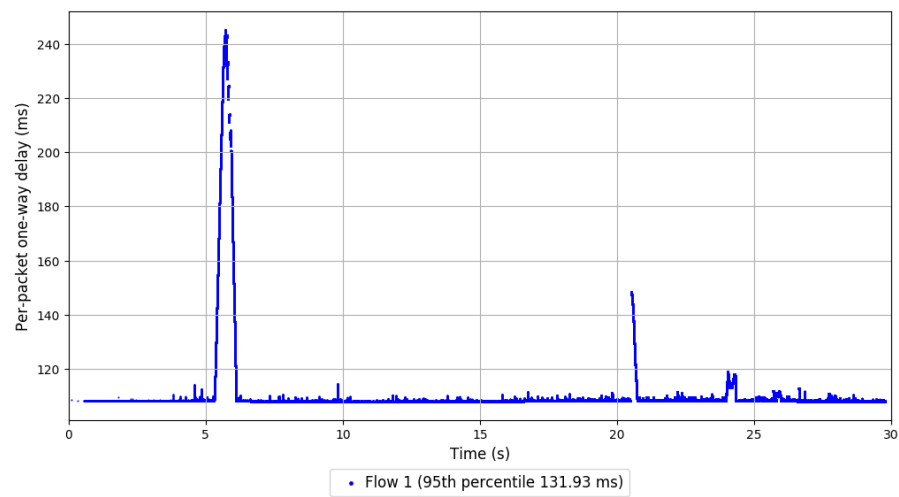
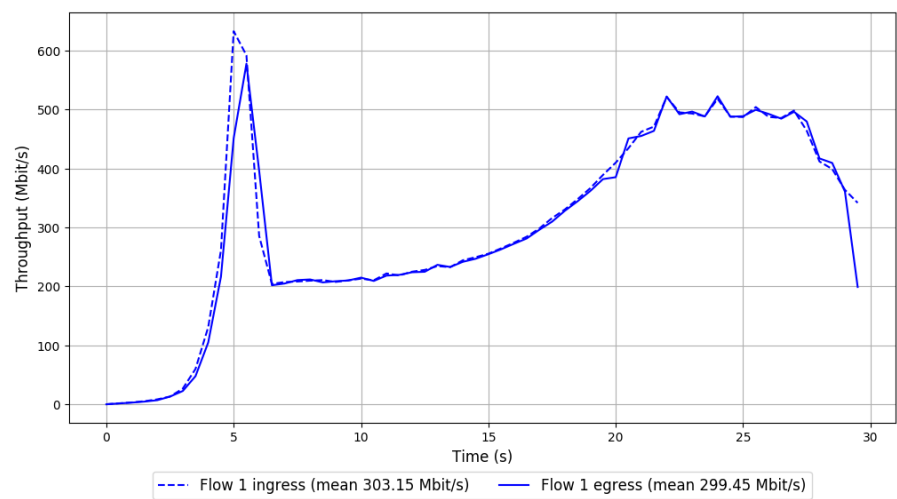
-- Flow 1:

Average throughput: 299.45 Mbit/s

95th percentile per-packet one-way delay: 131.929 ms

Loss rate: 1.95%

Run 10: Report of Vivace-loss — Data Link

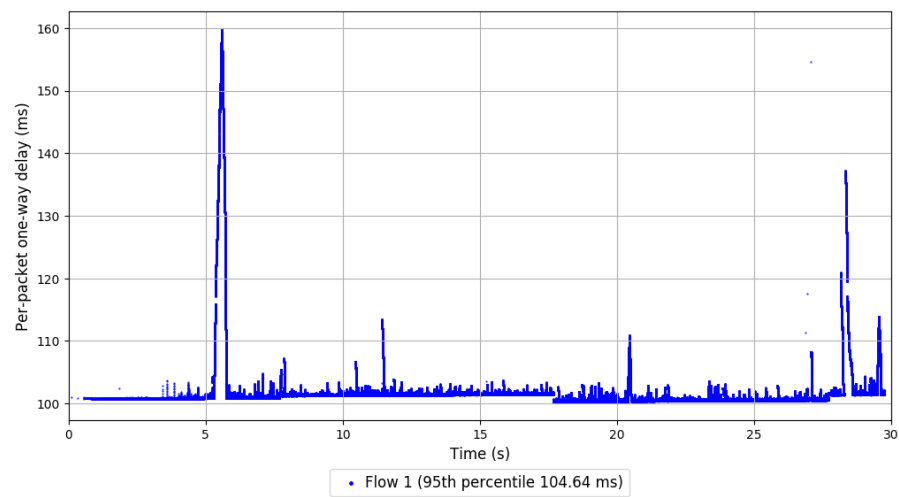
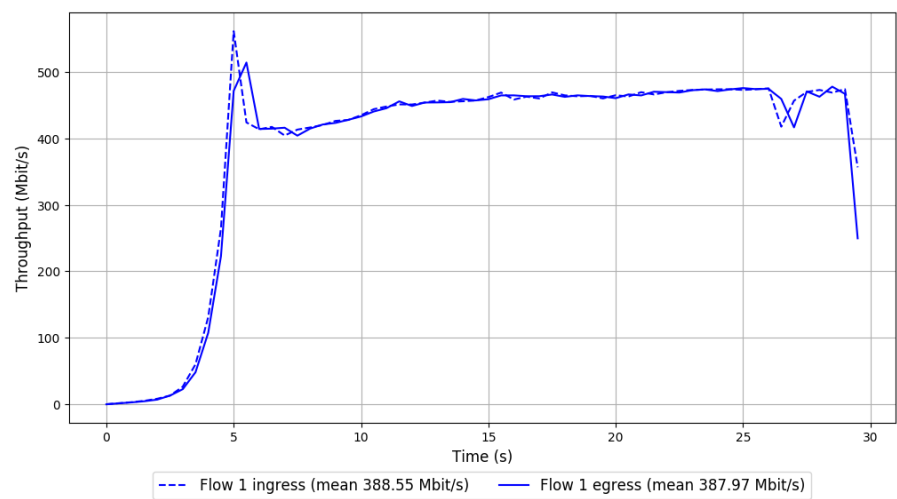


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-15 22:02:27
End at: 2018-02-15 22:02:57

# Below is generated by plot.py at 2018-02-16 04:29:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 387.97 Mbit/s
95th percentile per-packet one-way delay: 104.642 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 387.97 Mbit/s
95th percentile per-packet one-way delay: 104.642 ms
Loss rate: 0.90%
```

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-15 22:19:27

End at: 2018-02-15 22:19:57

Below is generated by plot.py at 2018-02-16 04:29:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 356.99 Mbit/s

95th percentile per-packet one-way delay: 96.549 ms

Loss rate: 0.86%

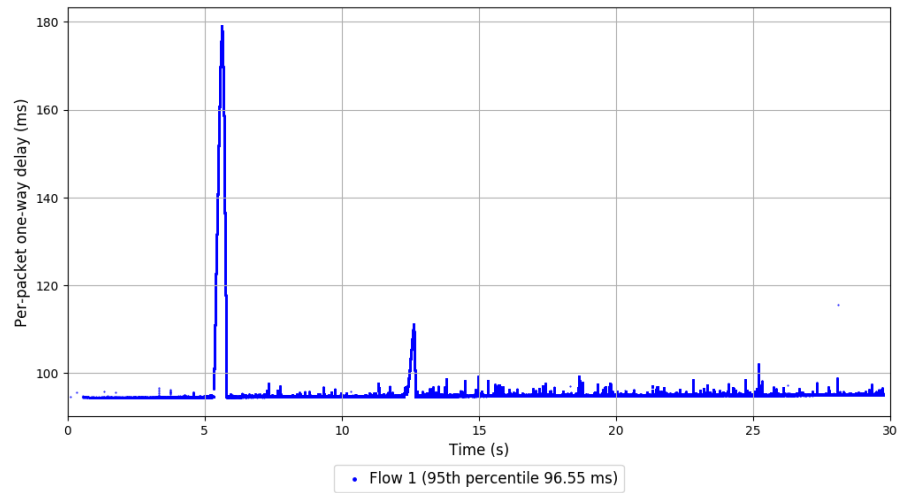
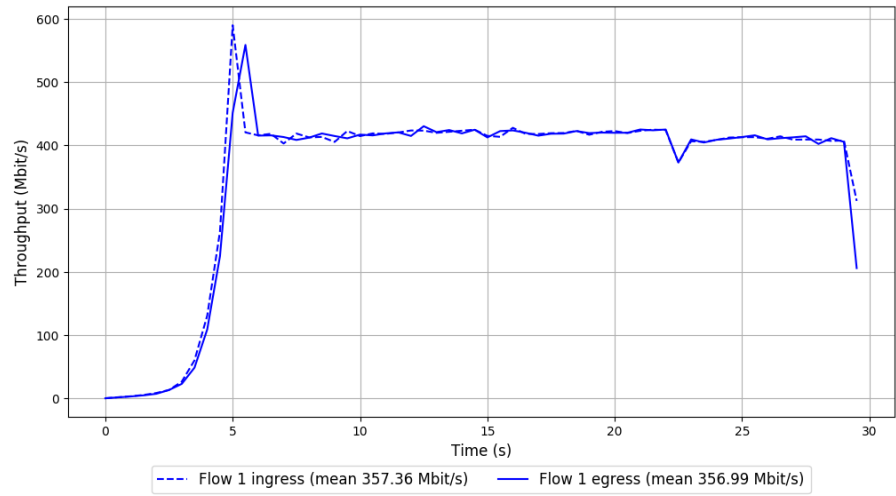
-- Flow 1:

Average throughput: 356.99 Mbit/s

95th percentile per-packet one-way delay: 96.549 ms

Loss rate: 0.86%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-15 22:36:13

End at: 2018-02-15 22:36:43

Below is generated by plot.py at 2018-02-16 04:32:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 401.36 Mbit/s

95th percentile per-packet one-way delay: 138.540 ms

Loss rate: 0.93%

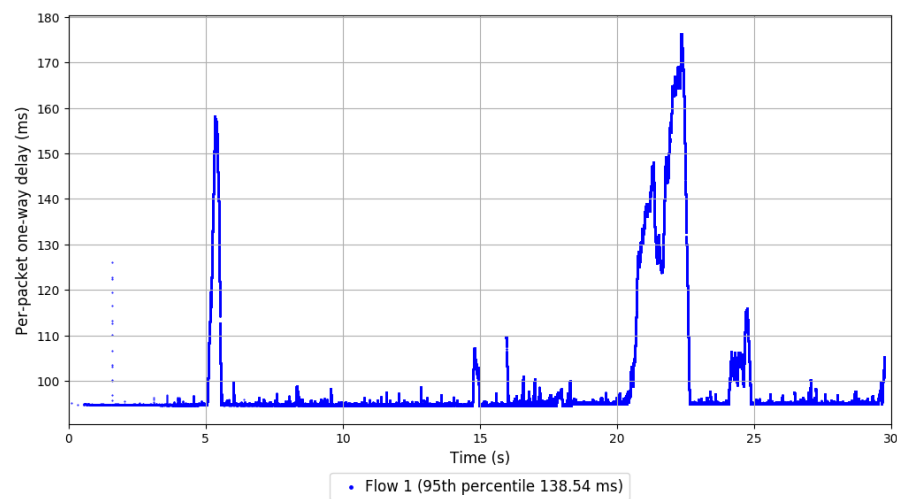
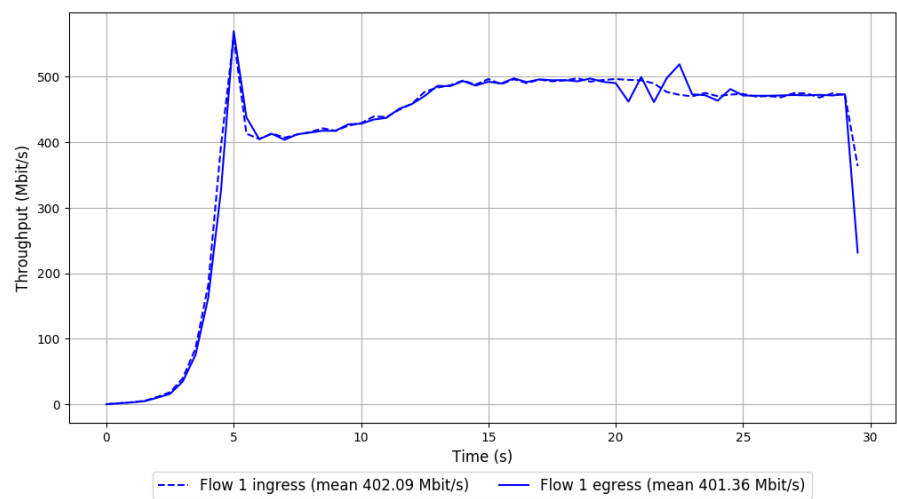
-- Flow 1:

Average throughput: 401.36 Mbit/s

95th percentile per-packet one-way delay: 138.540 ms

Loss rate: 0.93%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-15 22:51:35

End at: 2018-02-15 22:52:05

Below is generated by plot.py at 2018-02-16 04:32:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 261.48 Mbit/s

95th percentile per-packet one-way delay: 86.641 ms

Loss rate: 1.19%

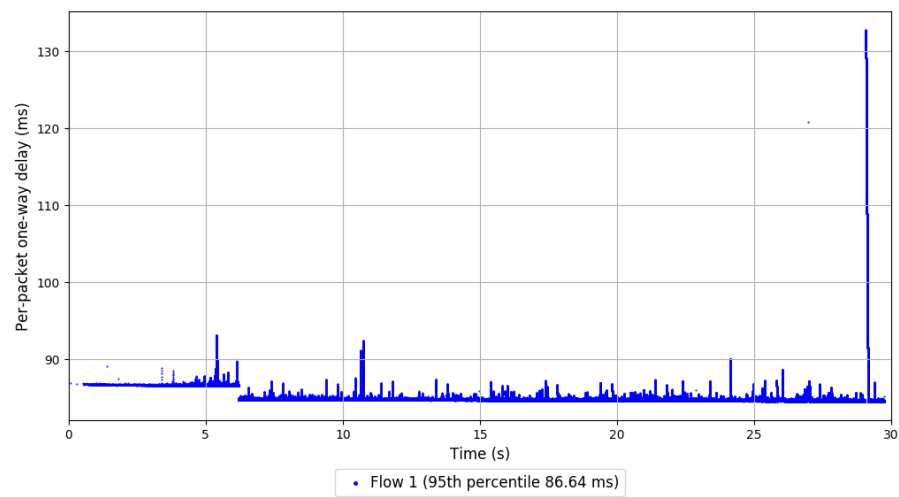
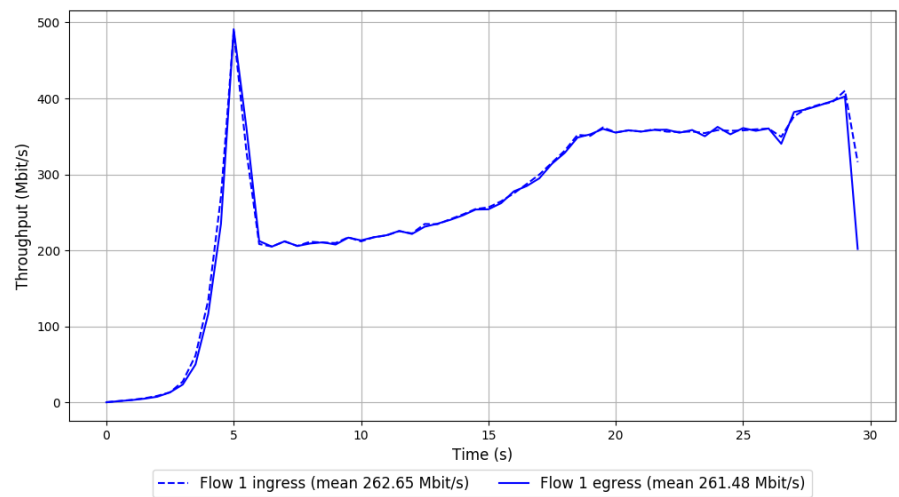
-- Flow 1:

Average throughput: 261.48 Mbit/s

95th percentile per-packet one-way delay: 86.641 ms

Loss rate: 1.19%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-15 23:06:51

End at: 2018-02-15 23:07:21

Below is generated by plot.py at 2018-02-16 04:32:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 384.78 Mbit/s

95th percentile per-packet one-way delay: 109.982 ms

Loss rate: 1.20%

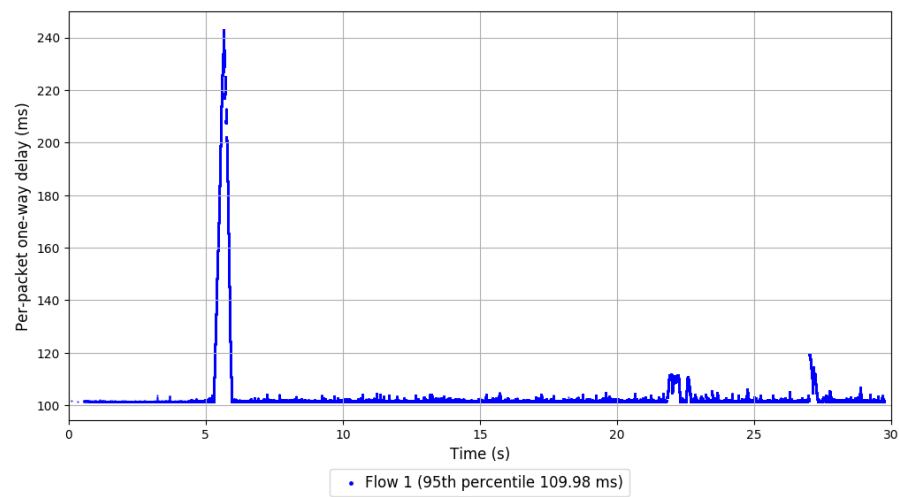
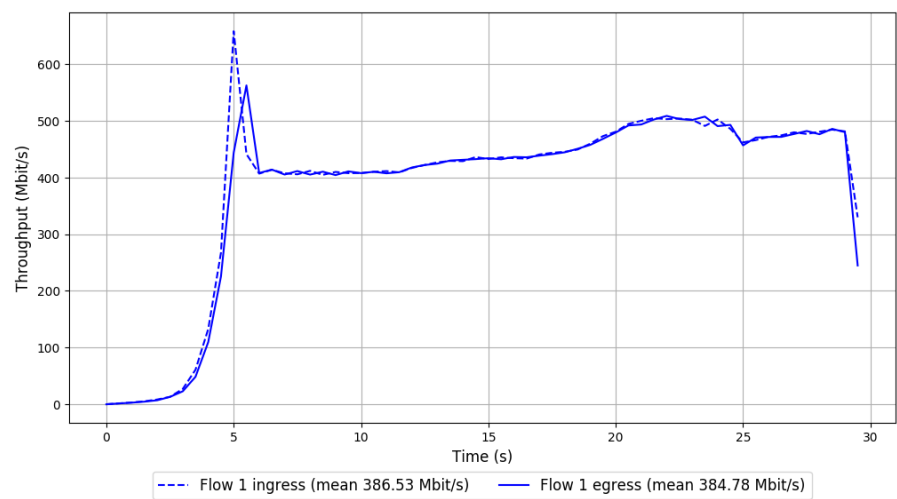
-- Flow 1:

Average throughput: 384.78 Mbit/s

95th percentile per-packet one-way delay: 109.982 ms

Loss rate: 1.20%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-15 23:22:29

End at: 2018-02-15 23:22:59

Below is generated by plot.py at 2018-02-16 04:32:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 387.69 Mbit/s

95th percentile per-packet one-way delay: 135.346 ms

Loss rate: 1.01%

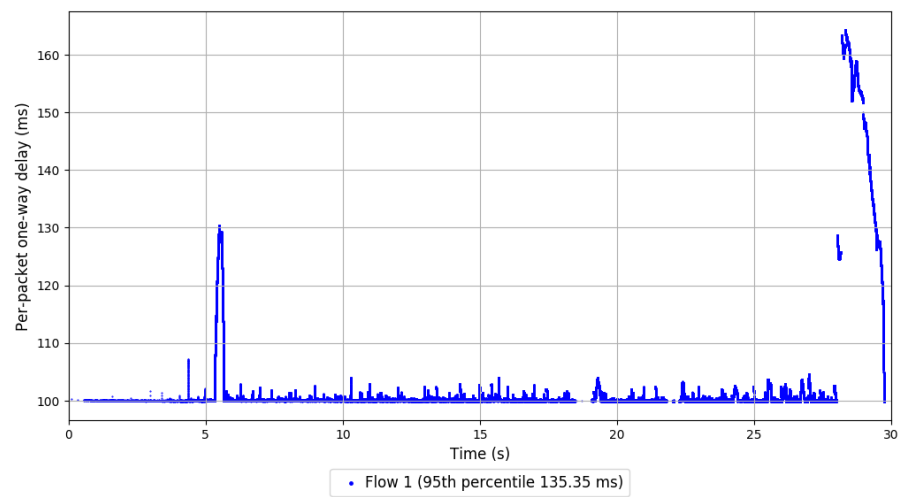
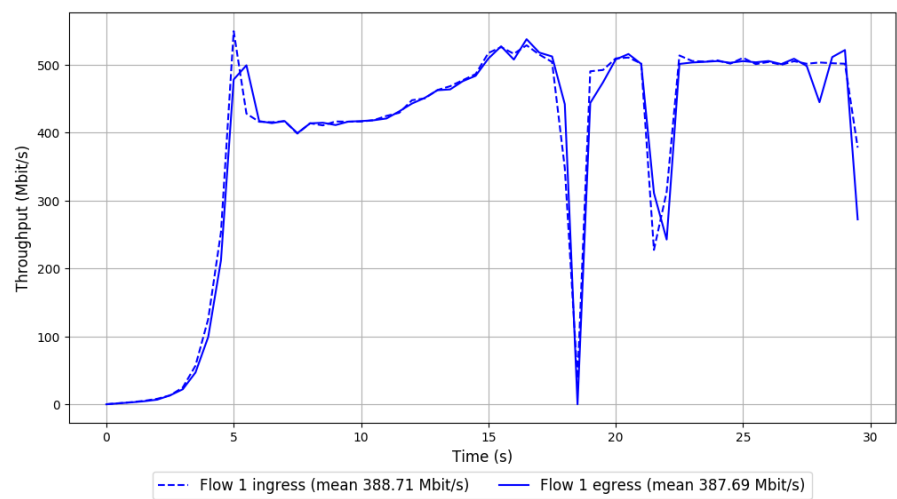
-- Flow 1:

Average throughput: 387.69 Mbit/s

95th percentile per-packet one-way delay: 135.346 ms

Loss rate: 1.01%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-15 23:38:07

End at: 2018-02-15 23:38:37

Below is generated by plot.py at 2018-02-16 04:32:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 380.77 Mbit/s

95th percentile per-packet one-way delay: 125.291 ms

Loss rate: 0.99%

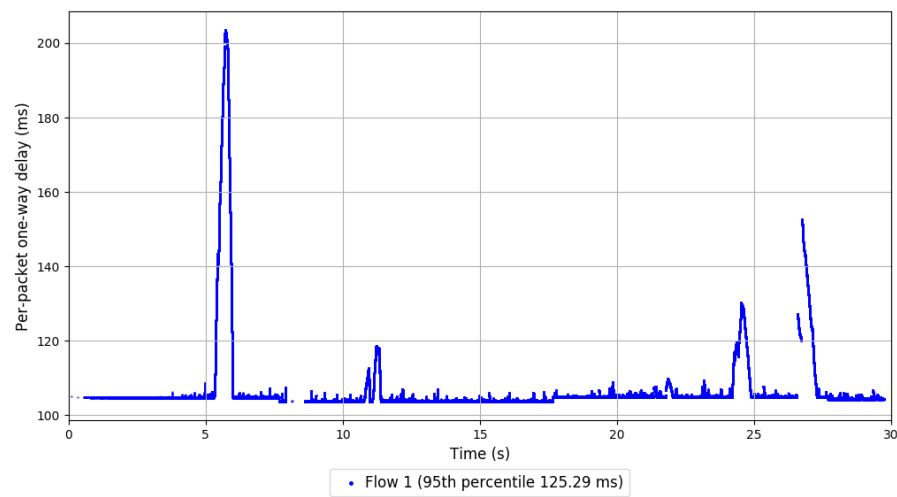
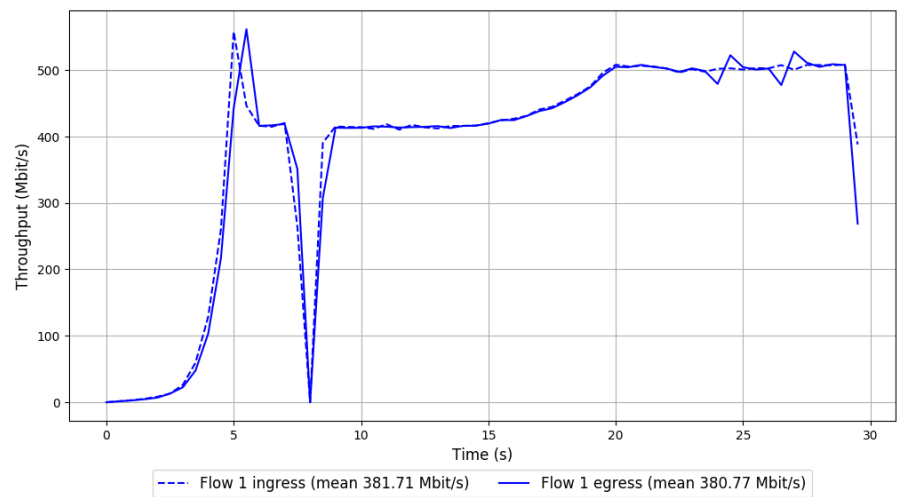
-- Flow 1:

Average throughput: 380.77 Mbit/s

95th percentile per-packet one-way delay: 125.291 ms

Loss rate: 0.99%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-15 23:53:48

End at: 2018-02-15 23:54:18

Below is generated by plot.py at 2018-02-16 04:32:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 293.93 Mbit/s

95th percentile per-packet one-way delay: 108.733 ms

Loss rate: 3.46%

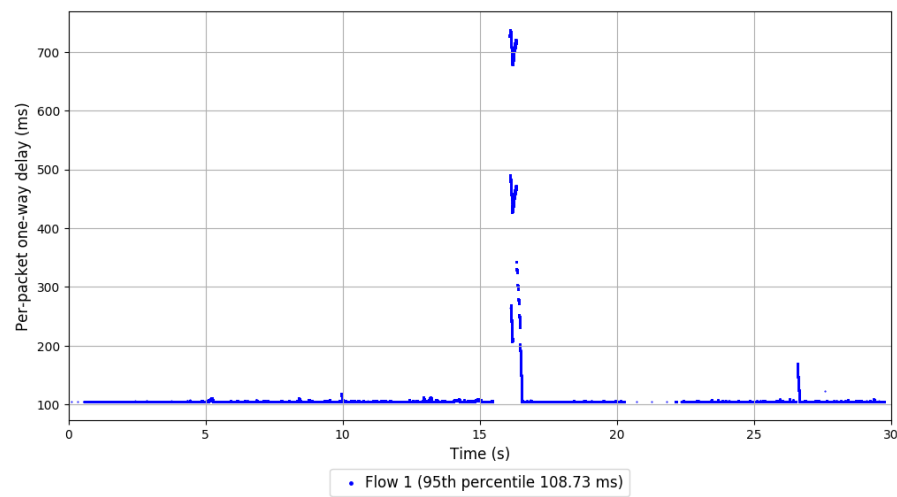
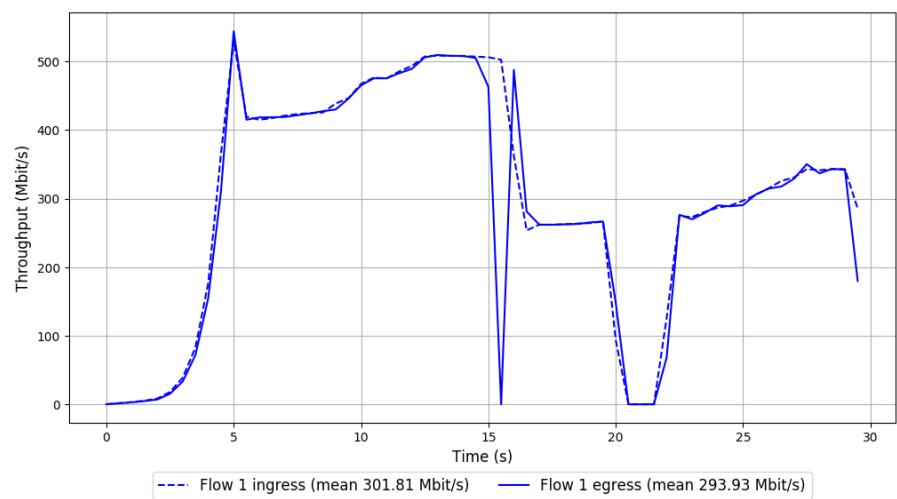
-- Flow 1:

Average throughput: 293.93 Mbit/s

95th percentile per-packet one-way delay: 108.733 ms

Loss rate: 3.46%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-16 00:09:32

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

Below is generated by plot.py at 2018-02-16 04:33:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 360.87 Mbit/s

95th percentile per-packet one-way delay: 112.414 ms

Loss rate: 0.81%

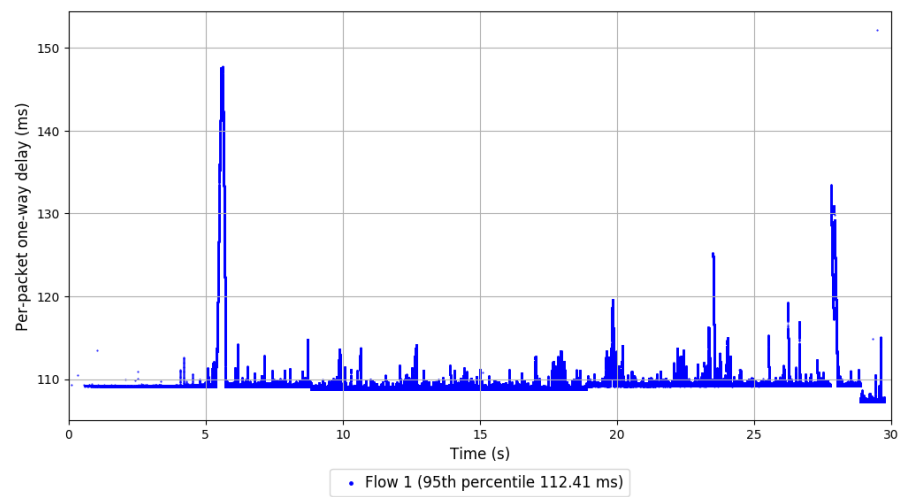
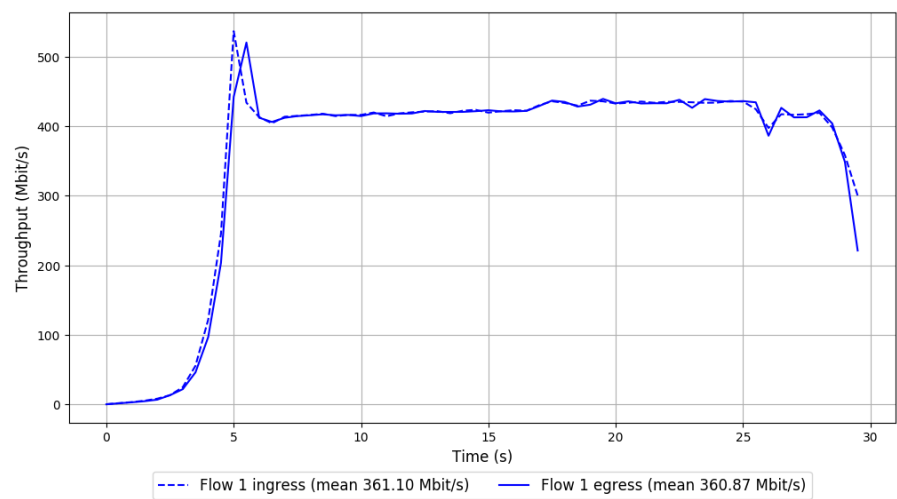
-- Flow 1:

Average throughput: 360.87 Mbit/s

95th percentile per-packet one-way delay: 112.414 ms

Loss rate: 0.81%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-16 00:25:09

End at: 2018-02-16 00:25:39

Below is generated by plot.py at 2018-02-16 04:33:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 375.87 Mbit/s

95th percentile per-packet one-way delay: 113.262 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 375.87 Mbit/s

95th percentile per-packet one-way delay: 113.262 ms

Loss rate: 0.84%

Run 10: Report of Vivace-LTE — Data Link

