

Pantheon Report

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

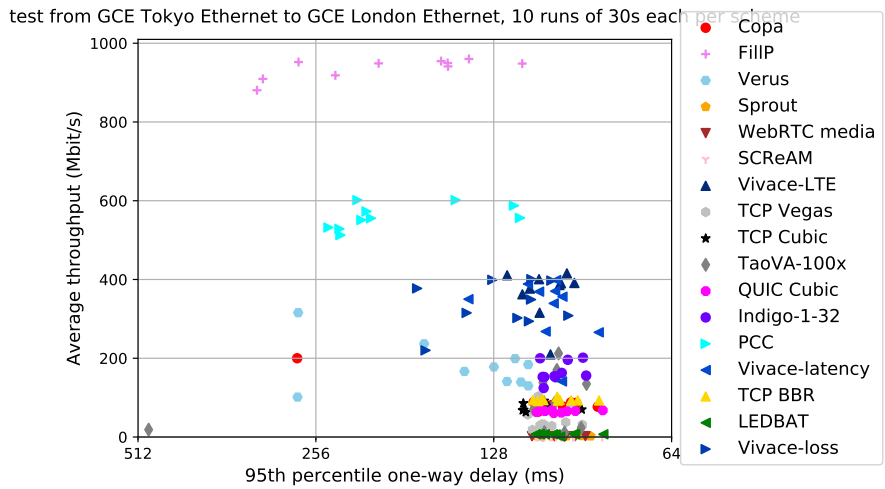
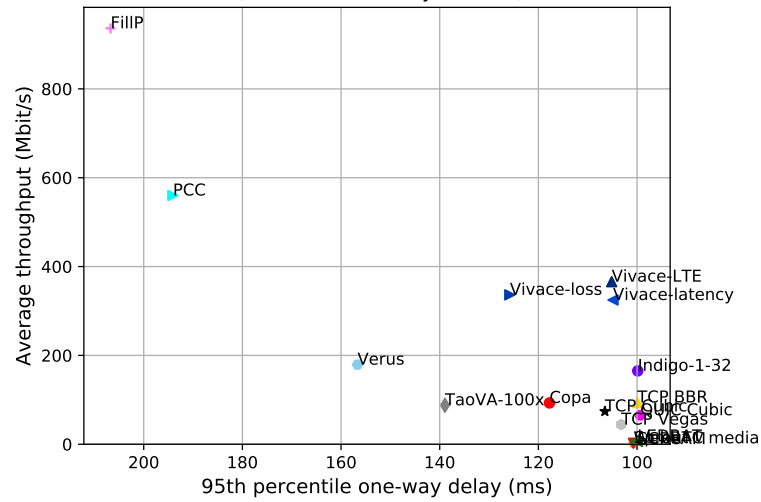
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

Git summary:

```
branch: master @ f12c42a2c63fdd9a862eefa0468859bf379b6623
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5ceec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
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 @ f1a14bffe749737437f61b1eae30b267cde681
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)



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	94.07	99.96	0.74
TCP Cubic	10	73.95	106.52	0.88
LEDBAT	10	6.42	99.94	1.71
PCC	10	559.95	194.08	2.50
QUIC Cubic	9	65.28	99.35	0.98
SCReAM	10	0.22	99.96	0.75
WebRTC media	10	2.14	100.73	0.93
Sprout	10	2.69	100.64	0.97
TaoVA-100x	10	87.73	138.94	0.72
TCP Vegas	10	44.19	103.22	0.74
Verus	10	179.18	156.68	1.14
Copa	10	92.99	117.76	2.77
FillP	10	936.33	206.74	1.27
Indigo-1-32	10	165.16	99.86	0.80
Vivace-latency	10	324.71	104.88	0.93
Vivace-loss	10	336.30	125.79	1.29
Vivace-LTE	10	365.97	105.15	0.96

Run 1: Statistics of TCP BBR

Start at: 2018-02-19 17:01:00

End at: 2018-02-19 17:01:30

Below is generated by plot.py at 2018-02-19 22:10:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.38 Mbit/s

95th percentile per-packet one-way delay: 98.991 ms

Loss rate: 0.00%

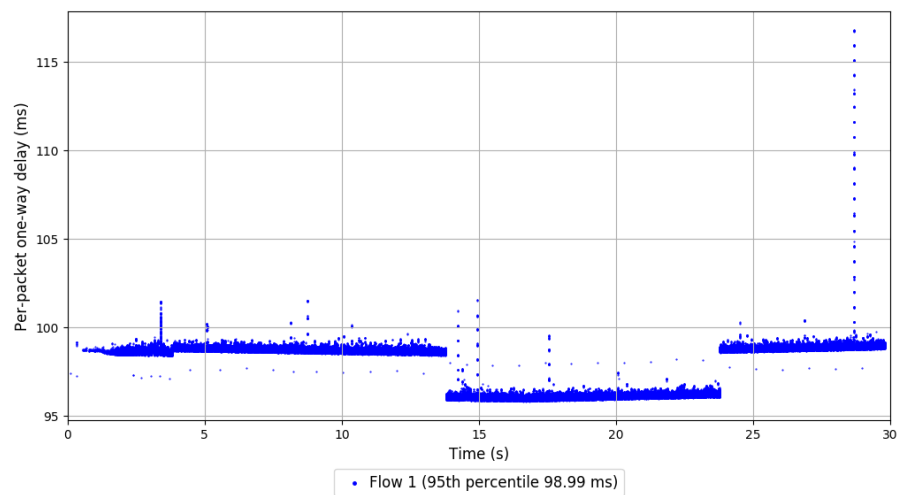
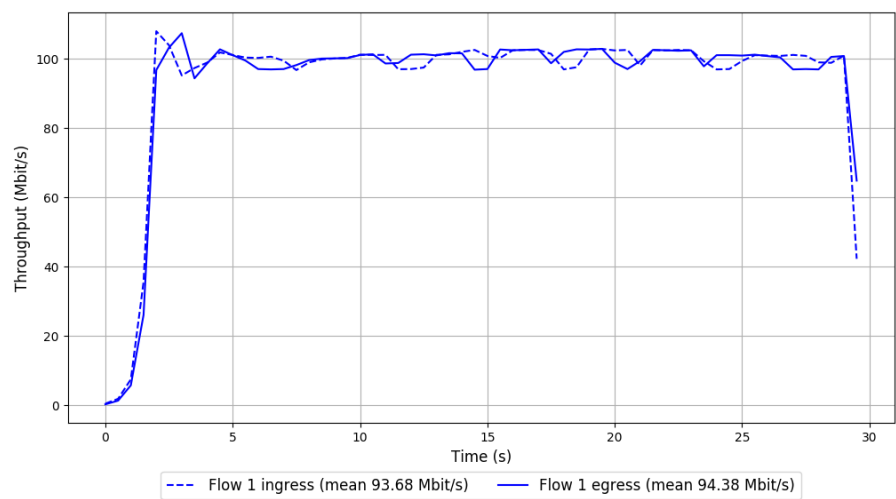
-- Flow 1:

Average throughput: 94.38 Mbit/s

95th percentile per-packet one-way delay: 98.991 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-19 17:16:51

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

Below is generated by plot.py at 2018-02-19 22:10:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.98 Mbit/s

95th percentile per-packet one-way delay: 92.281 ms

Loss rate: 0.88%

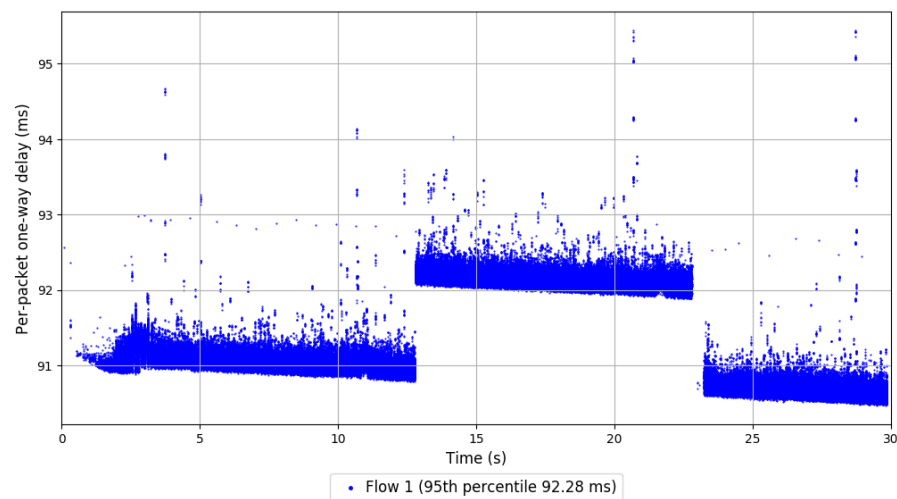
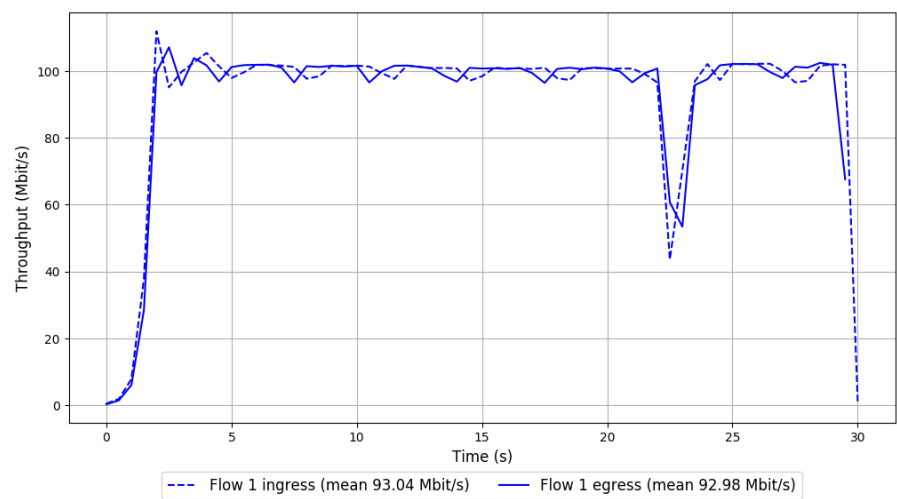
-- Flow 1:

Average throughput: 92.98 Mbit/s

95th percentile per-packet one-way delay: 92.281 ms

Loss rate: 0.88%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-19 17:32:34

End at: 2018-02-19 17:33:04

Below is generated by plot.py at 2018-02-19 22:10:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.24 Mbit/s

95th percentile per-packet one-way delay: 94.633 ms

Loss rate: 0.87%

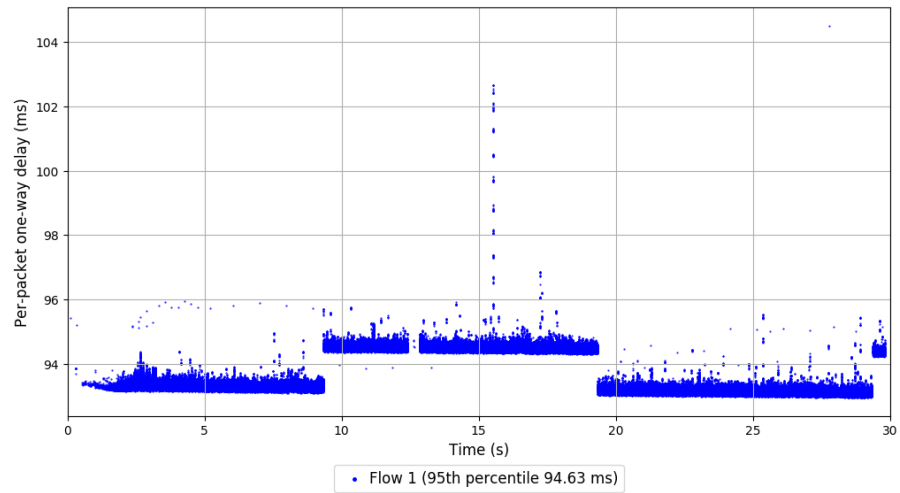
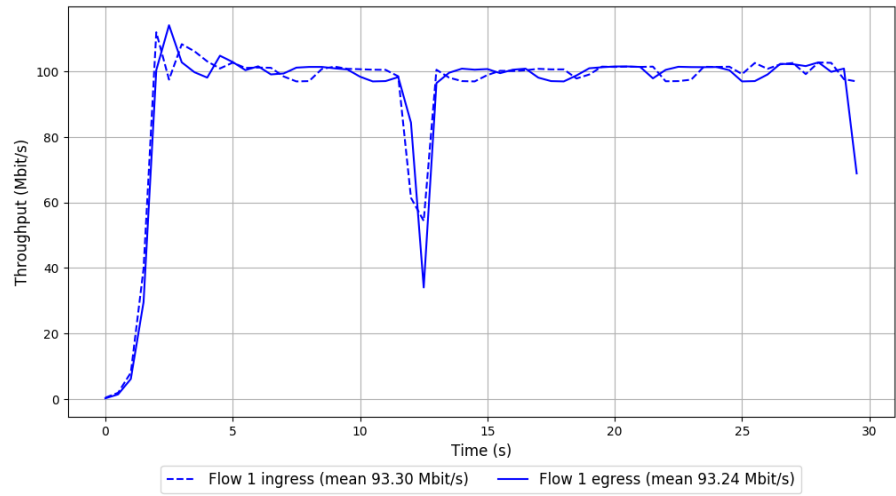
-- Flow 1:

Average throughput: 93.24 Mbit/s

95th percentile per-packet one-way delay: 94.633 ms

Loss rate: 0.87%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

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

End at: 2018-02-19 17:48:49

Below is generated by plot.py at 2018-02-19 22:10:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.88 Mbit/s

95th percentile per-packet one-way delay: 84.924 ms

Loss rate: 0.84%

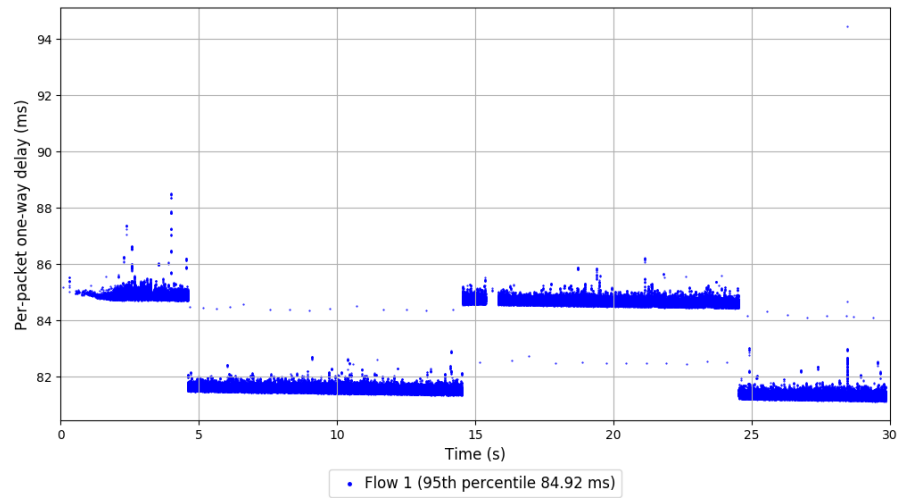
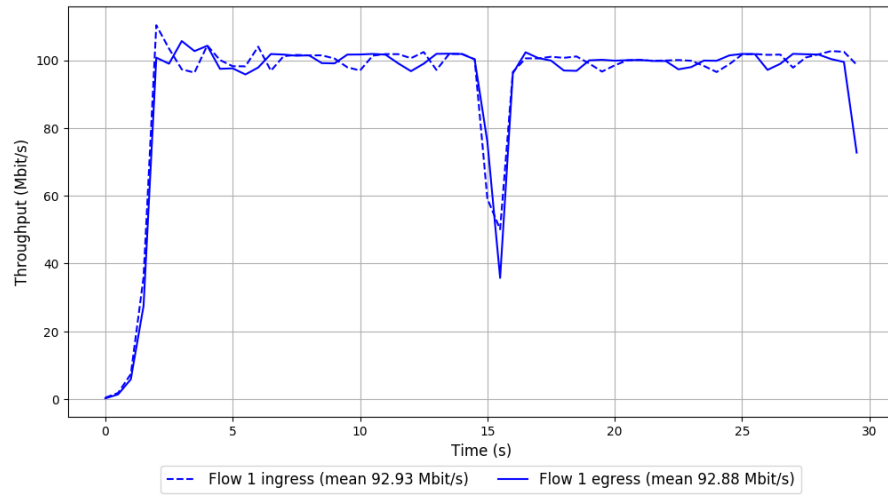
-- Flow 1:

Average throughput: 92.88 Mbit/s

95th percentile per-packet one-way delay: 84.924 ms

Loss rate: 0.84%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-19 18:03:47

End at: 2018-02-19 18:04:17

Below is generated by plot.py at 2018-02-19 22:10:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.10 Mbit/s

95th percentile per-packet one-way delay: 99.950 ms

Loss rate: 0.80%

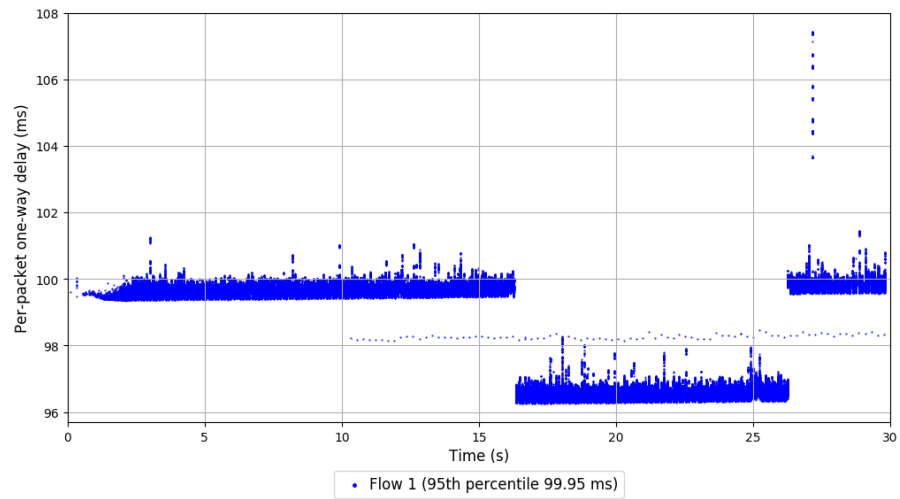
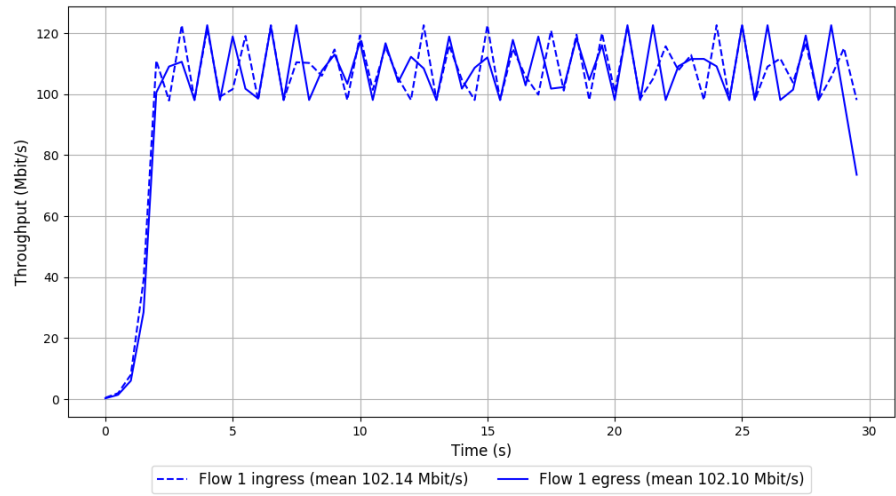
-- Flow 1:

Average throughput: 102.10 Mbit/s

95th percentile per-packet one-way delay: 99.950 ms

Loss rate: 0.80%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

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

End at: 2018-02-19 18:20:23

Below is generated by plot.py at 2018-02-19 22:10:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.36 Mbit/s

95th percentile per-packet one-way delay: 99.687 ms

Loss rate: 0.88%

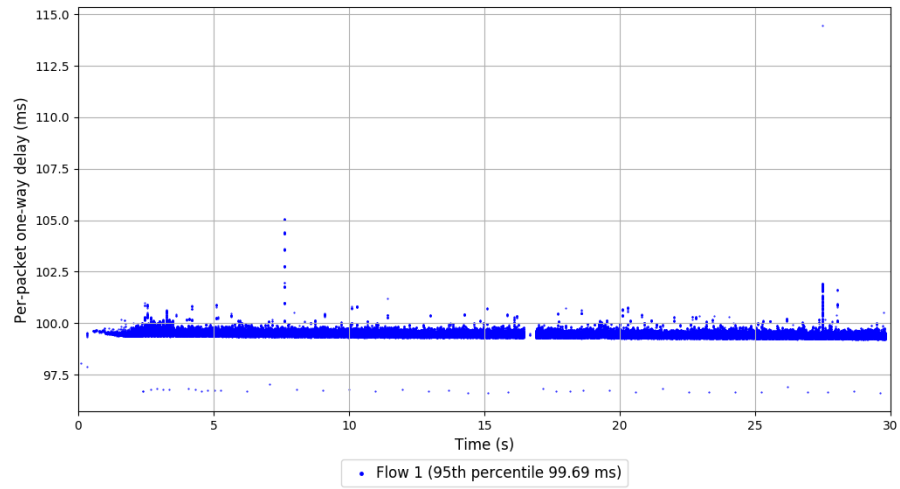
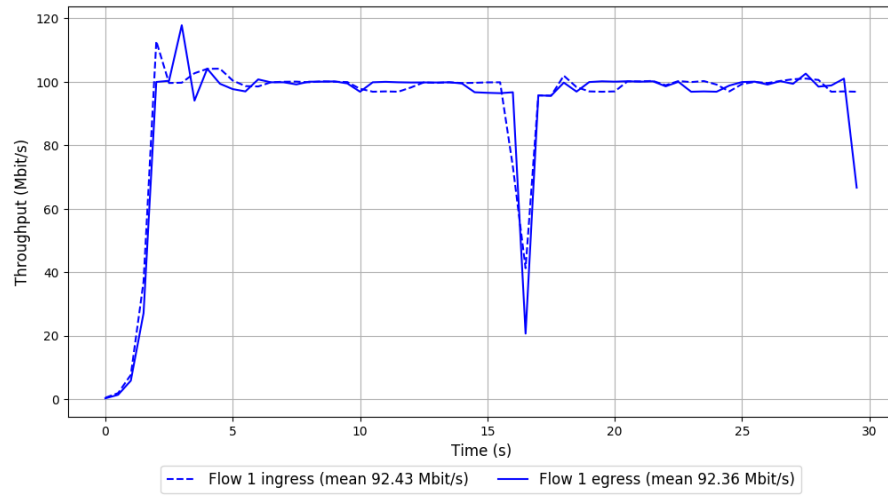
-- Flow 1:

Average throughput: 92.36 Mbit/s

95th percentile per-packet one-way delay: 99.687 ms

Loss rate: 0.88%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-19 18:36:23

End at: 2018-02-19 18:36:53

Below is generated by plot.py at 2018-02-19 22:10:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.63 Mbit/s

95th percentile per-packet one-way delay: 106.024 ms

Loss rate: 0.76%

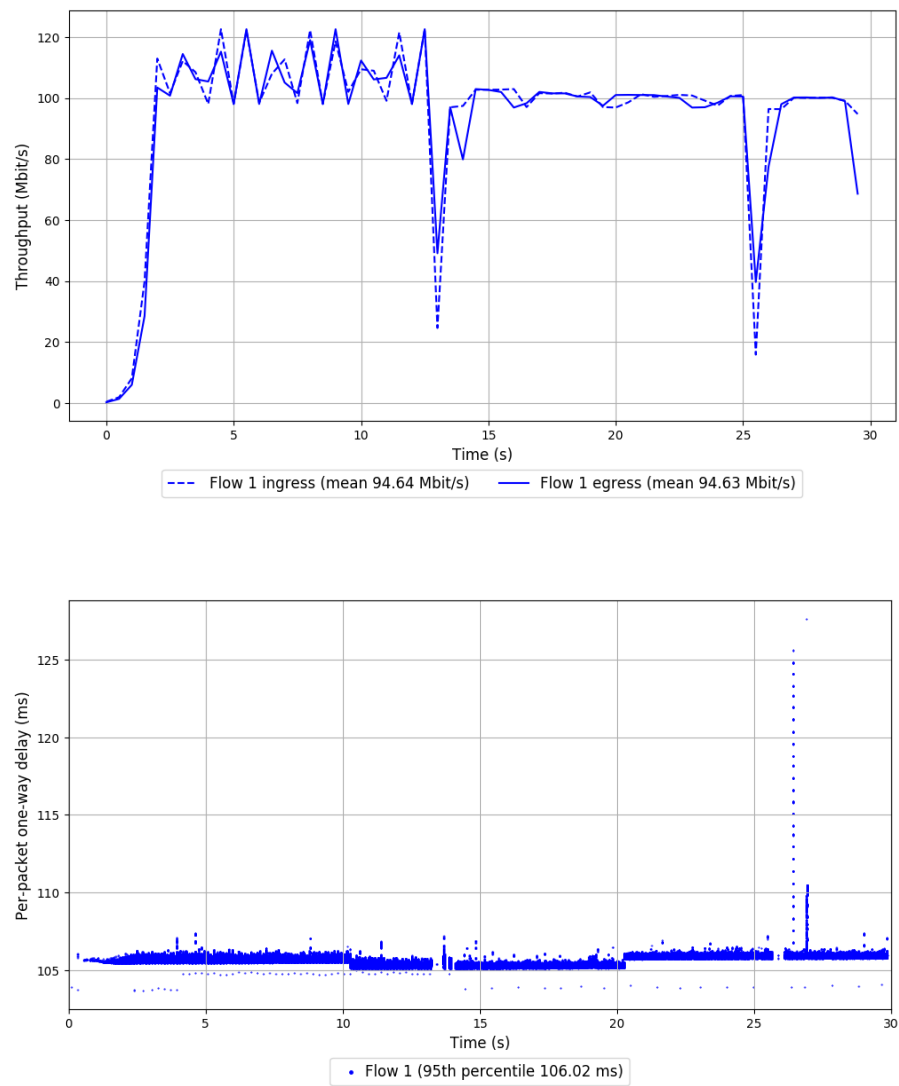
-- Flow 1:

Average throughput: 94.63 Mbit/s

95th percentile per-packet one-way delay: 106.024 ms

Loss rate: 0.76%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-19 18:52:22

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

Below is generated by plot.py at 2018-02-19 22:10:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.42 Mbit/s

95th percentile per-packet one-way delay: 105.442 ms

Loss rate: 0.79%

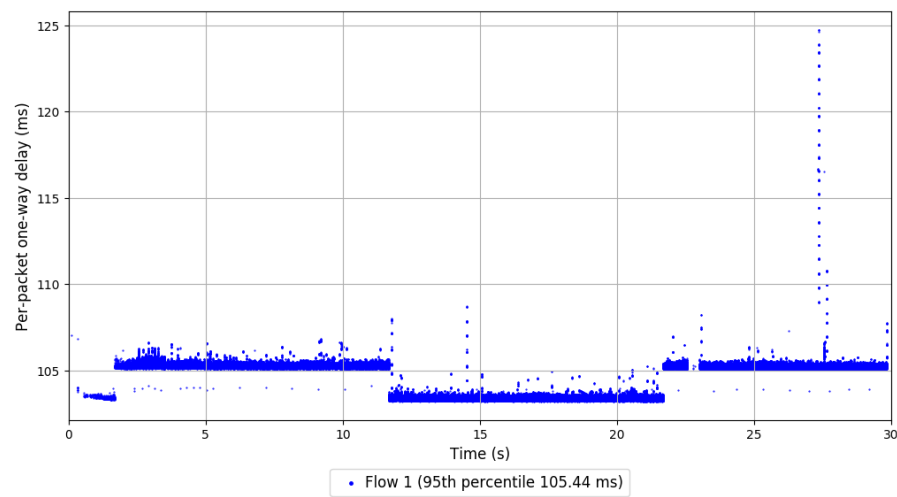
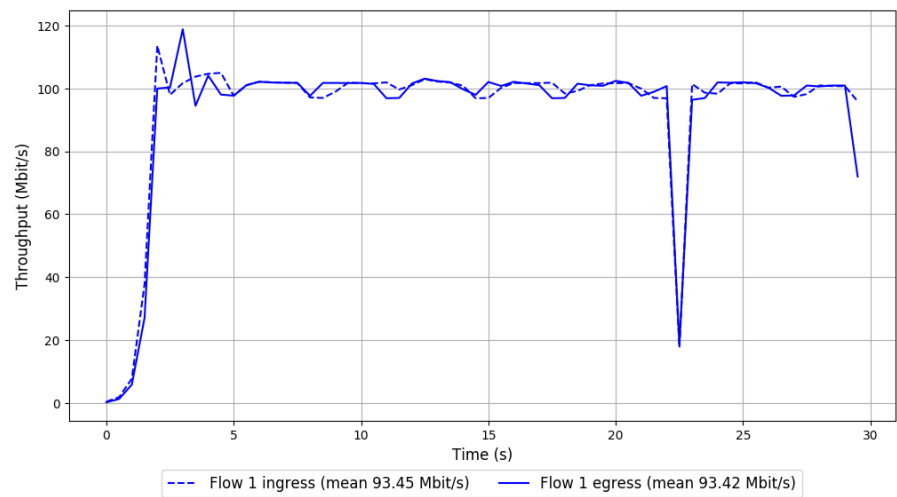
-- Flow 1:

Average throughput: 93.42 Mbit/s

95th percentile per-packet one-way delay: 105.442 ms

Loss rate: 0.79%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-19 19:08:05

End at: 2018-02-19 19:08:35

Below is generated by plot.py at 2018-02-19 22:11:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.12 Mbit/s

95th percentile per-packet one-way delay: 107.786 ms

Loss rate: 0.80%

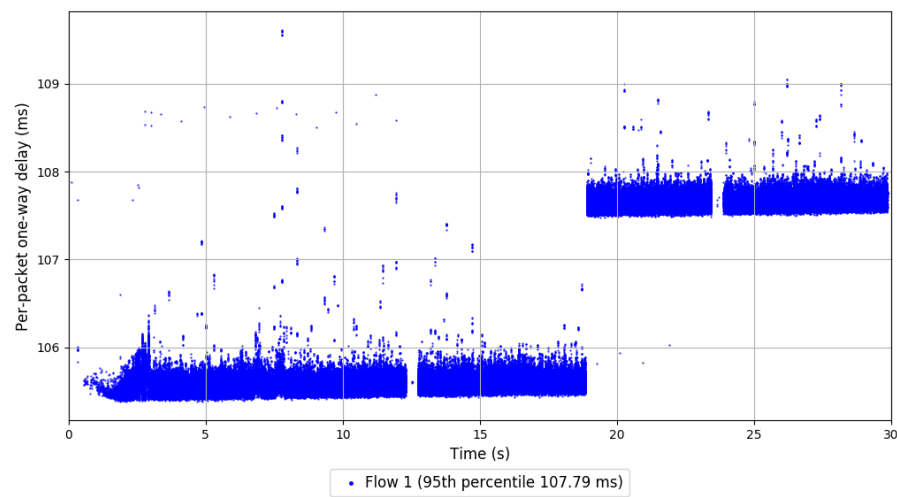
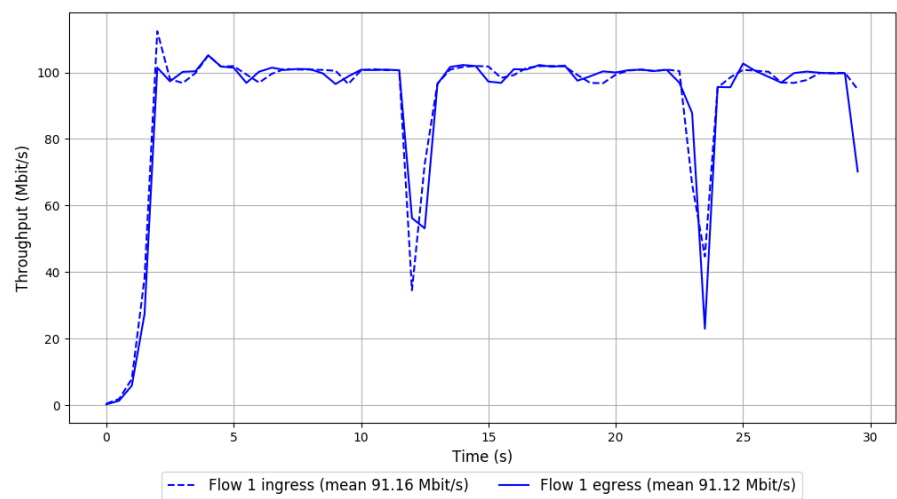
-- Flow 1:

Average throughput: 91.12 Mbit/s

95th percentile per-packet one-way delay: 107.786 ms

Loss rate: 0.80%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-19 19:23:40

End at: 2018-02-19 19:24:10

Below is generated by plot.py at 2018-02-19 22:11:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.59 Mbit/s

95th percentile per-packet one-way delay: 109.845 ms

Loss rate: 0.82%

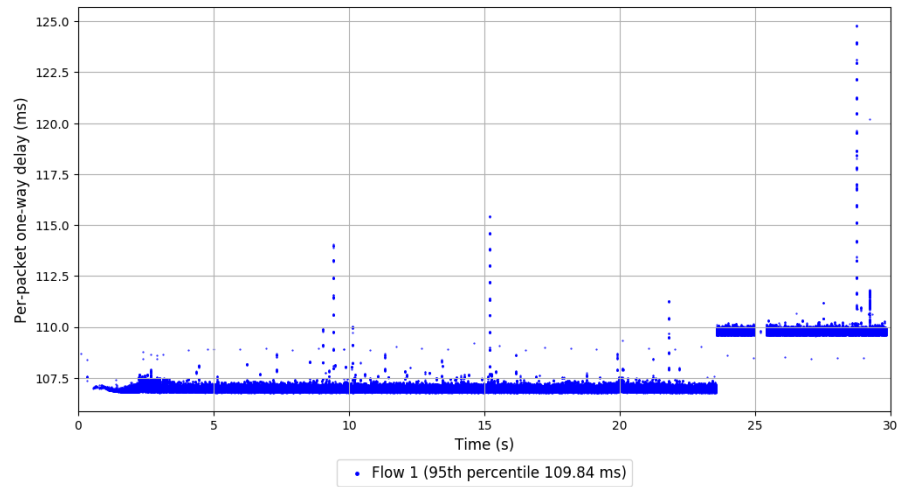
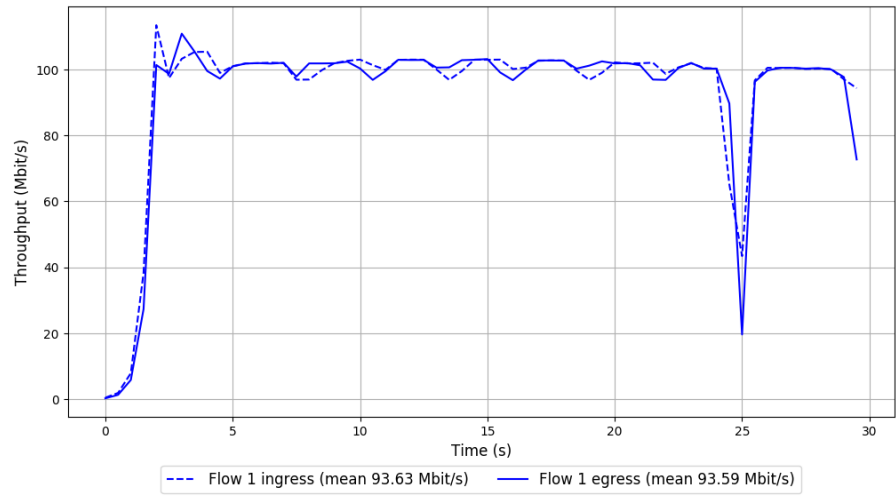
-- Flow 1:

Average throughput: 93.59 Mbit/s

95th percentile per-packet one-way delay: 109.845 ms

Loss rate: 0.82%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-19 16:59:17

End at: 2018-02-19 16:59:47

Below is generated by plot.py at 2018-02-19 22:11:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.67 Mbit/s

95th percentile per-packet one-way delay: 105.066 ms

Loss rate: 1.11%

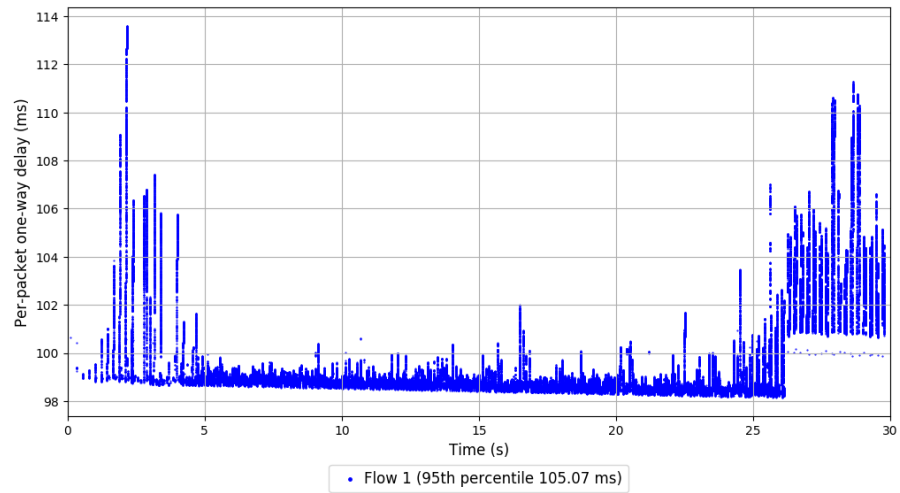
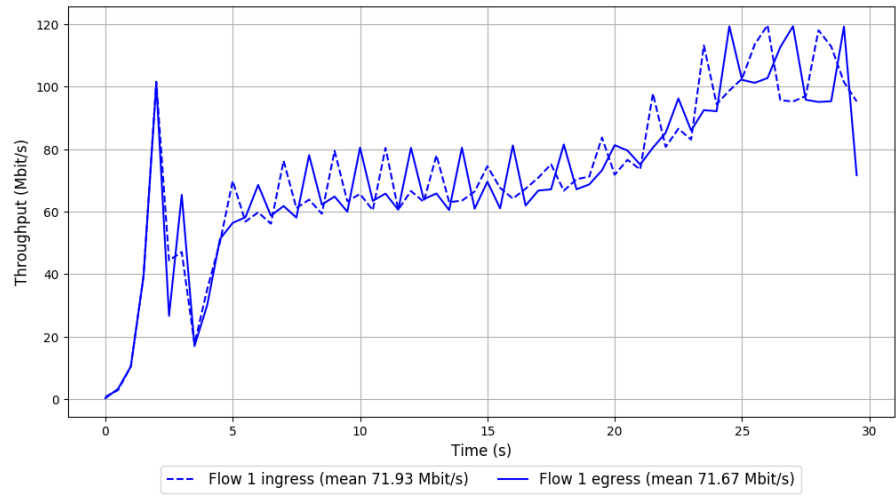
-- Flow 1:

Average throughput: 71.67 Mbit/s

95th percentile per-packet one-way delay: 105.066 ms

Loss rate: 1.11%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

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

End at: 2018-02-19 17:15:32

Below is generated by plot.py at 2018-02-19 22:11:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.61 Mbit/s

95th percentile per-packet one-way delay: 102.548 ms

Loss rate: 1.10%

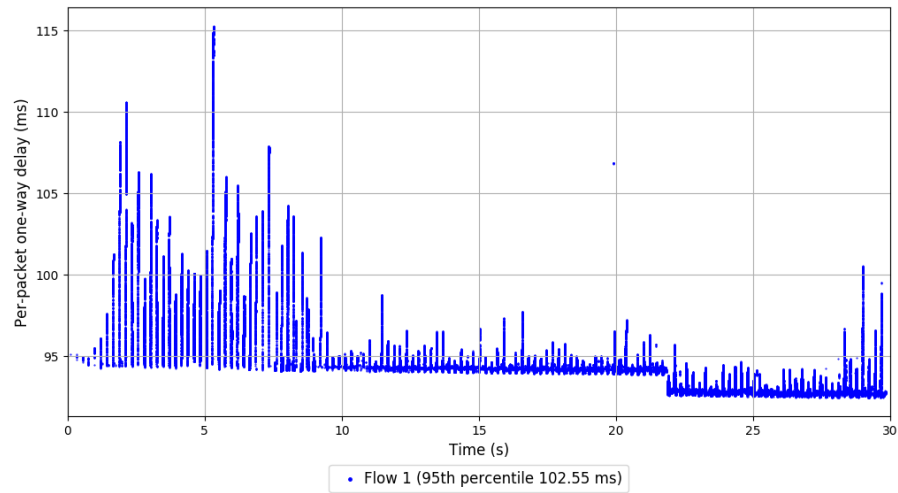
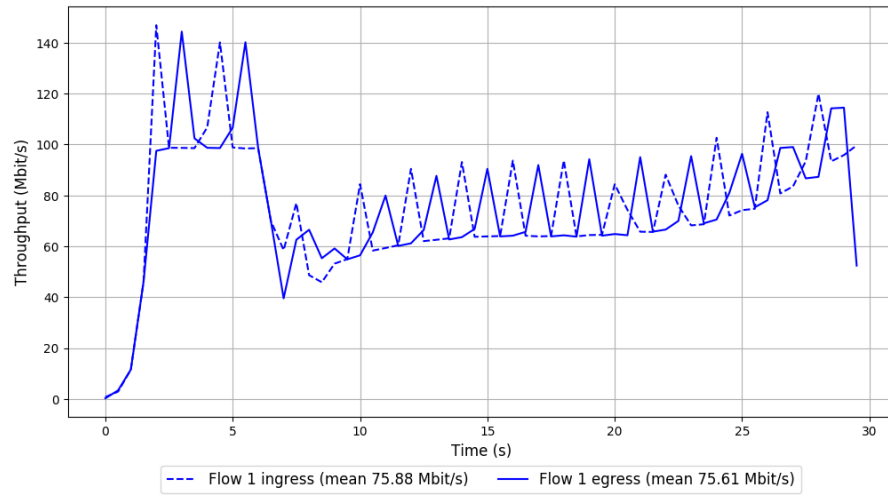
-- Flow 1:

Average throughput: 75.61 Mbit/s

95th percentile per-packet one-way delay: 102.548 ms

Loss rate: 1.10%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-19 17:30:42

End at: 2018-02-19 17:31:12

Below is generated by plot.py at 2018-02-19 22:11:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.94 Mbit/s

95th percentile per-packet one-way delay: 105.164 ms

Loss rate: 0.57%

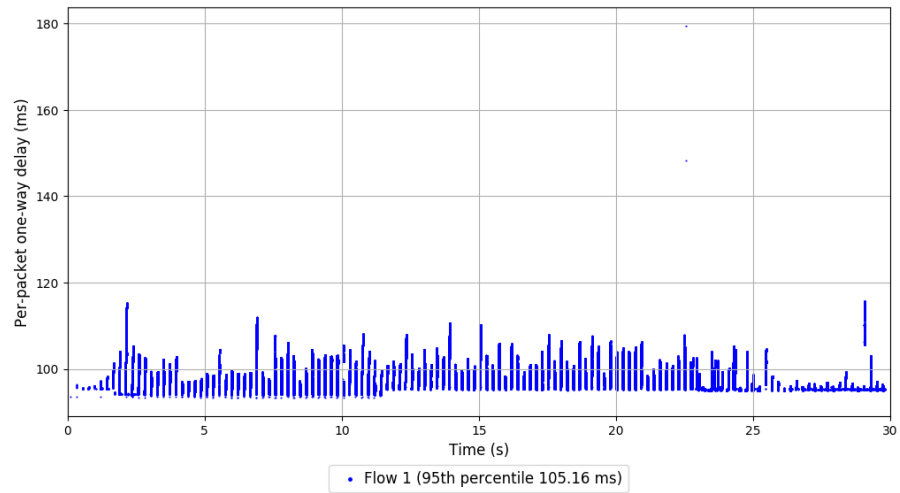
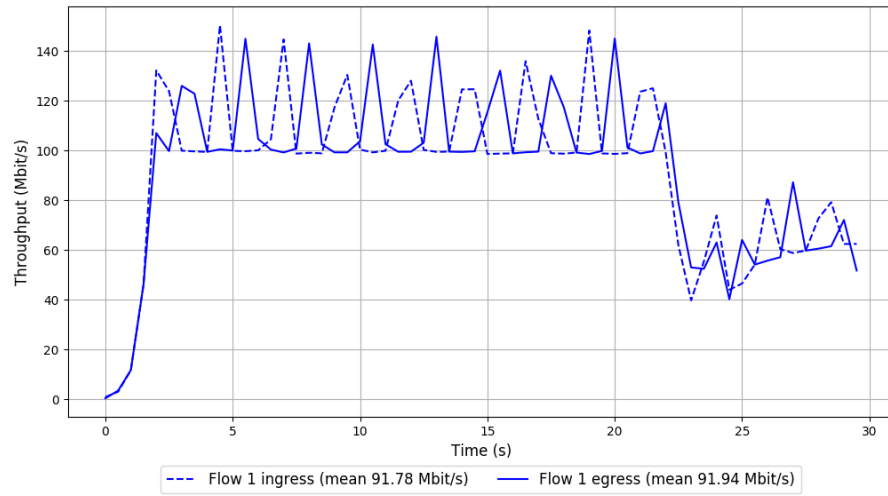
-- Flow 1:

Average throughput: 91.94 Mbit/s

95th percentile per-packet one-way delay: 105.164 ms

Loss rate: 0.57%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-19 17:46:25

End at: 2018-02-19 17:46:55

Below is generated by plot.py at 2018-02-19 22:11:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.78 Mbit/s

95th percentile per-packet one-way delay: 90.844 ms

Loss rate: 0.70%

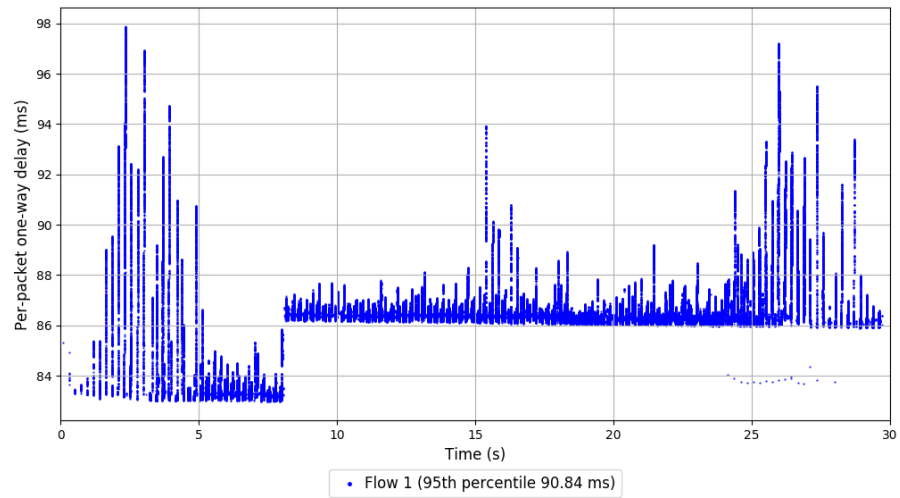
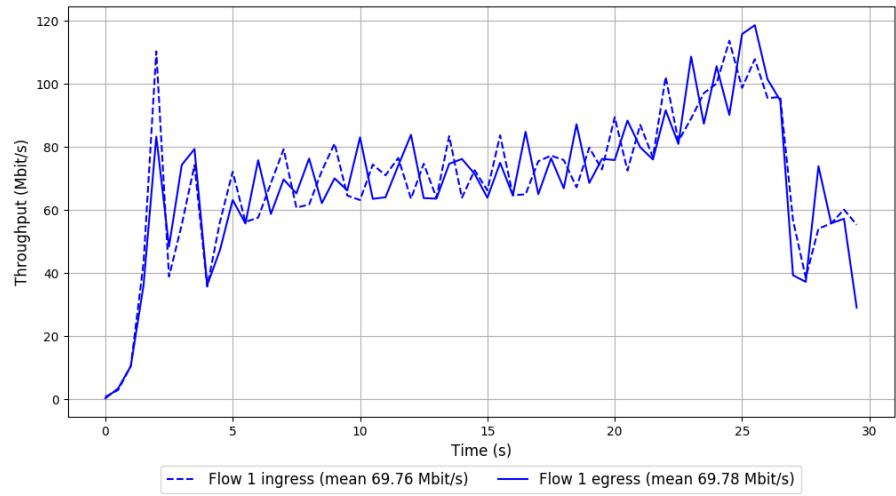
-- Flow 1:

Average throughput: 69.78 Mbit/s

95th percentile per-packet one-way delay: 90.844 ms

Loss rate: 0.70%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-19 18:01:59

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

Below is generated by plot.py at 2018-02-19 22:11:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.58 Mbit/s

95th percentile per-packet one-way delay: 103.540 ms

Loss rate: 0.78%

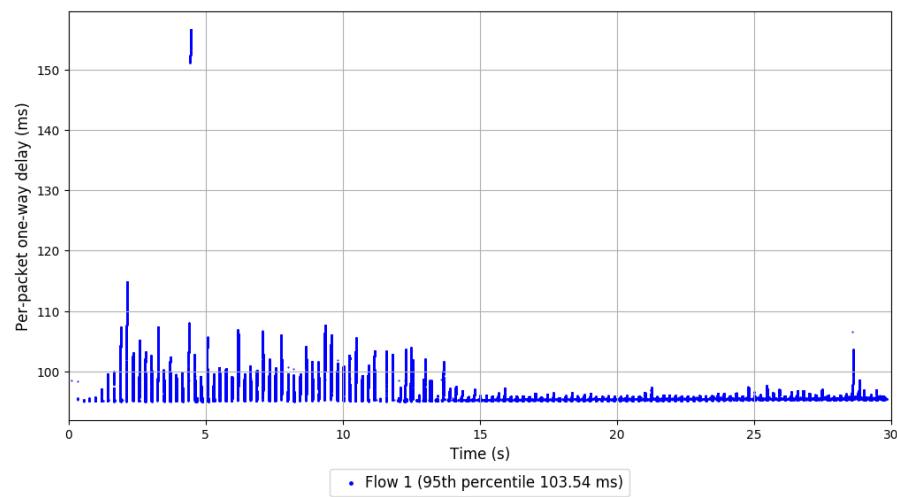
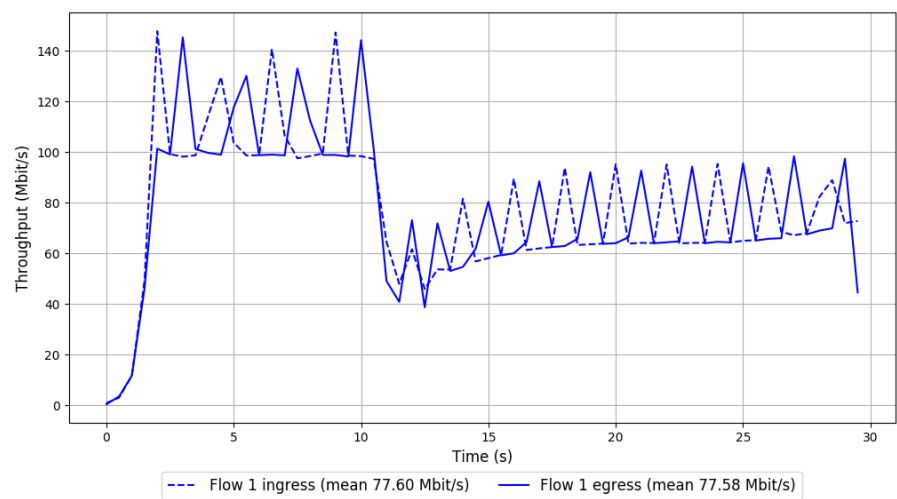
-- Flow 1:

Average throughput: 77.58 Mbit/s

95th percentile per-packet one-way delay: 103.540 ms

Loss rate: 0.78%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-19 18:17:50

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

Below is generated by plot.py at 2018-02-19 22:11:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.08 Mbit/s

95th percentile per-packet one-way delay: 102.793 ms

Loss rate: 0.76%

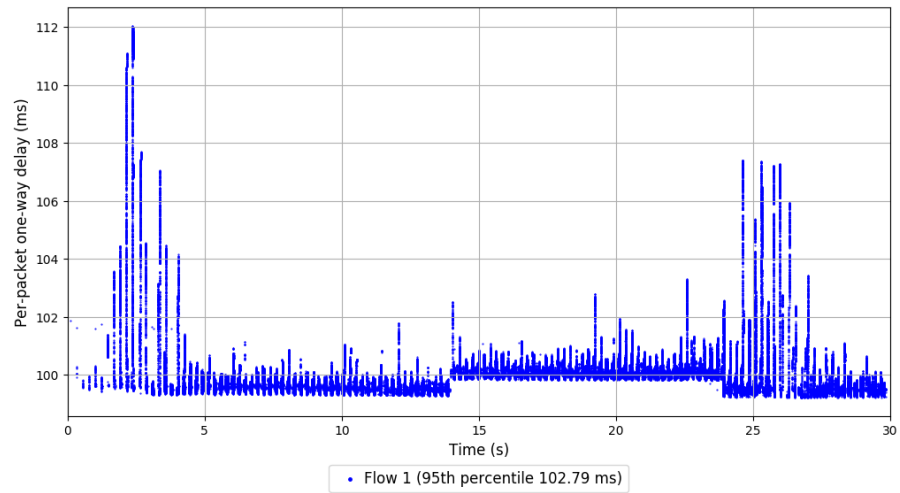
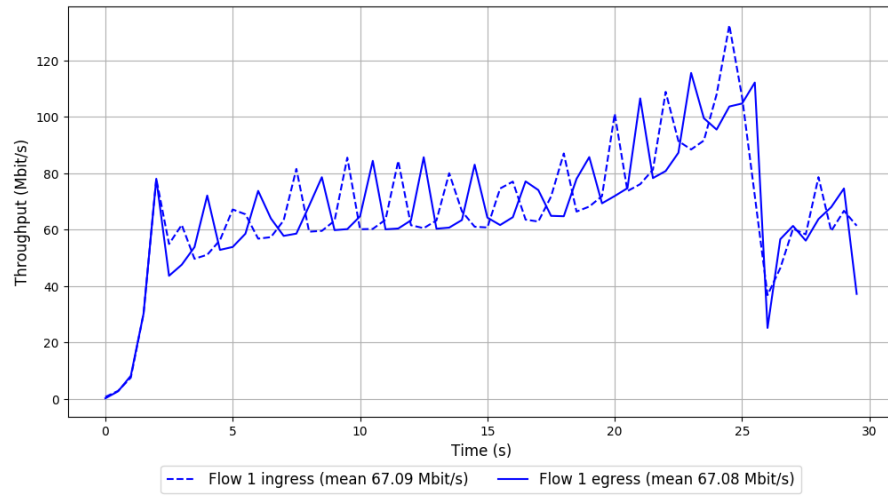
-- Flow 1:

Average throughput: 67.08 Mbit/s

95th percentile per-packet one-way delay: 102.793 ms

Loss rate: 0.76%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-19 18:34:03

End at: 2018-02-19 18:34:33

Below is generated by plot.py at 2018-02-19 22:12:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.84 Mbit/s

95th percentile per-packet one-way delay: 114.321 ms

Loss rate: 1.19%

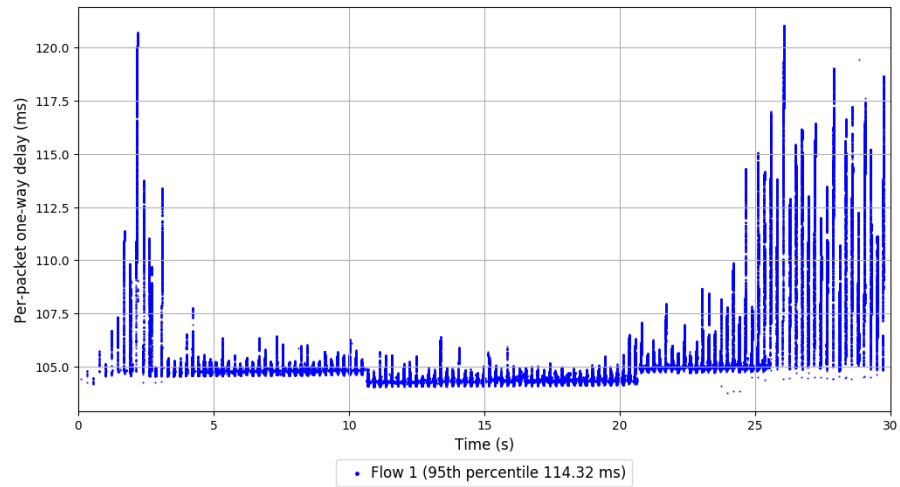
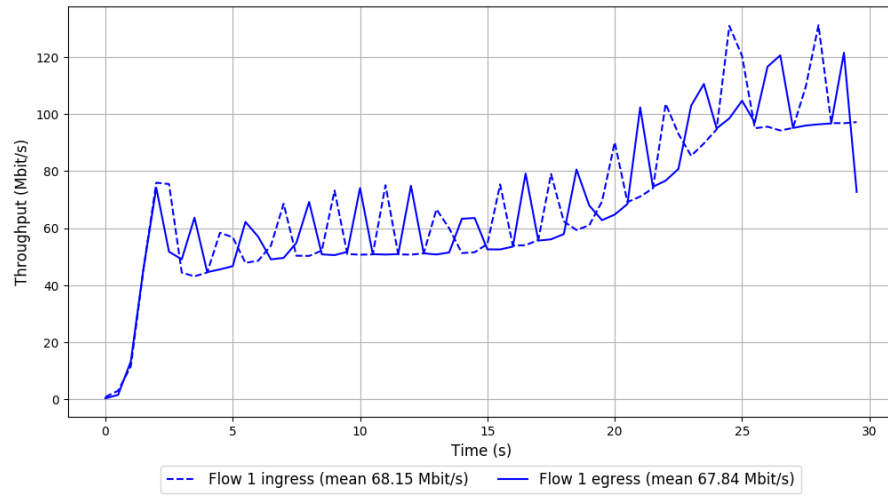
-- Flow 1:

Average throughput: 67.84 Mbit/s

95th percentile per-packet one-way delay: 114.321 ms

Loss rate: 1.19%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-19 18:50:33

End at: 2018-02-19 18:51:03

Below is generated by plot.py at 2018-02-19 22:12:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.28 Mbit/s

95th percentile per-packet one-way delay: 112.978 ms

Loss rate: 0.83%

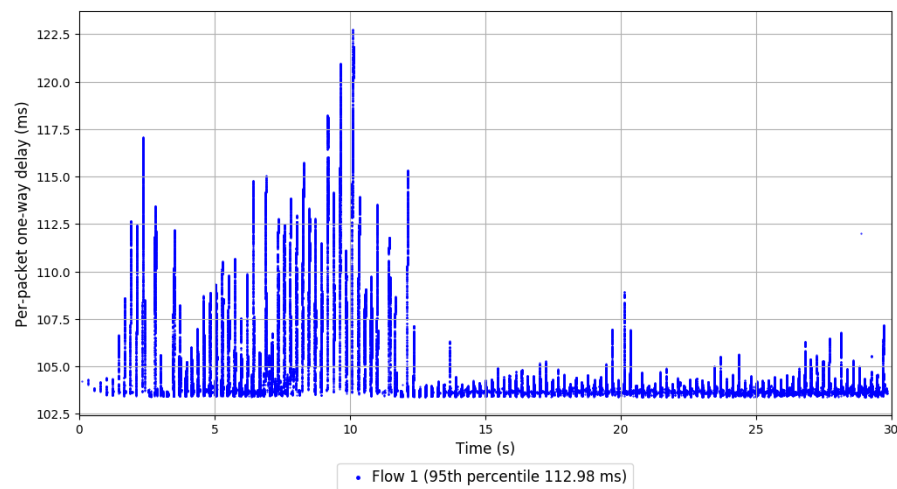
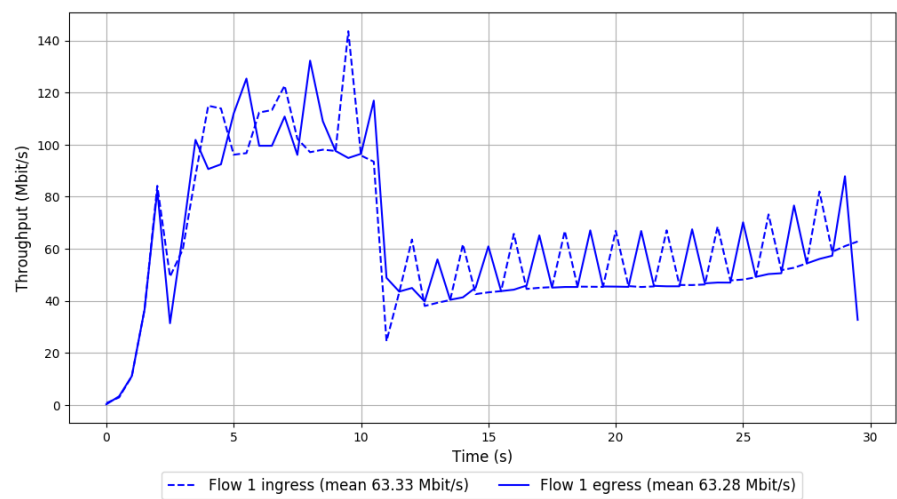
-- Flow 1:

Average throughput: 63.28 Mbit/s

95th percentile per-packet one-way delay: 112.978 ms

Loss rate: 0.83%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

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

End at: 2018-02-19 19:06:40

Below is generated by plot.py at 2018-02-19 22:12:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.15 Mbit/s

95th percentile per-packet one-way delay: 113.916 ms

Loss rate: 1.16%

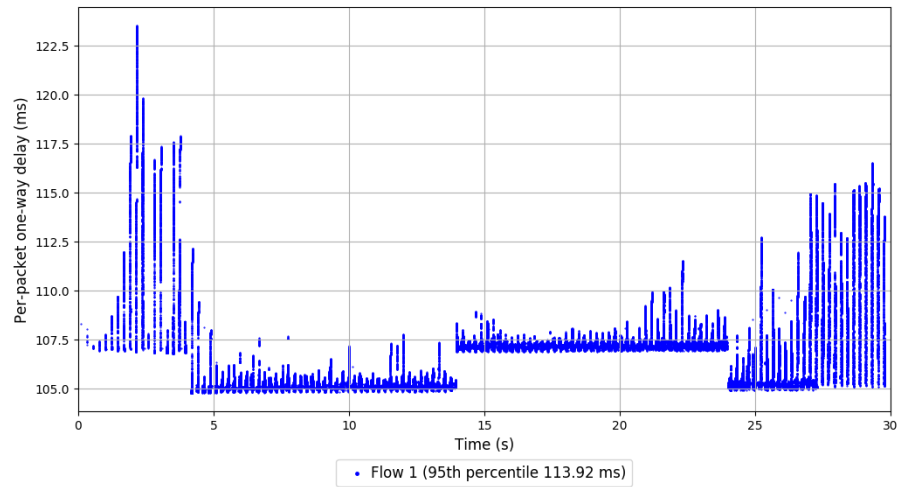
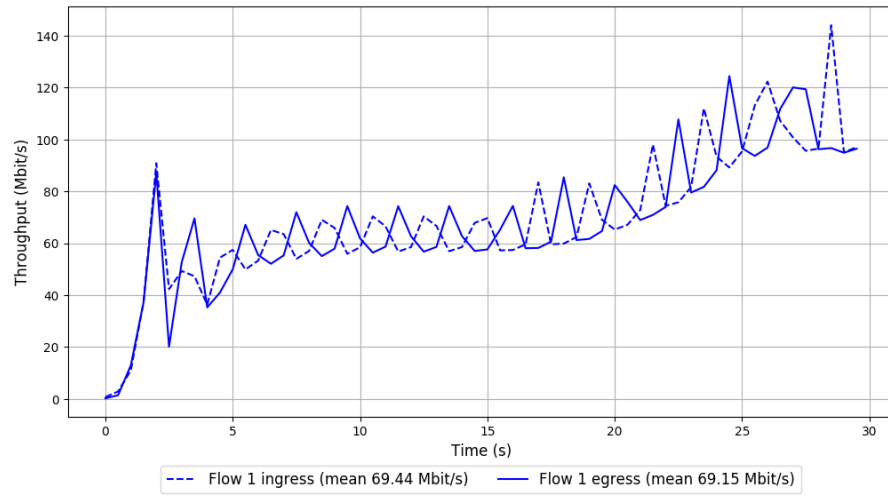
-- Flow 1:

Average throughput: 69.15 Mbit/s

95th percentile per-packet one-way delay: 113.916 ms

Loss rate: 1.16%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-19 19:21:52

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

Below is generated by plot.py at 2018-02-19 22:13:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.55 Mbit/s

95th percentile per-packet one-way delay: 114.049 ms

Loss rate: 0.61%

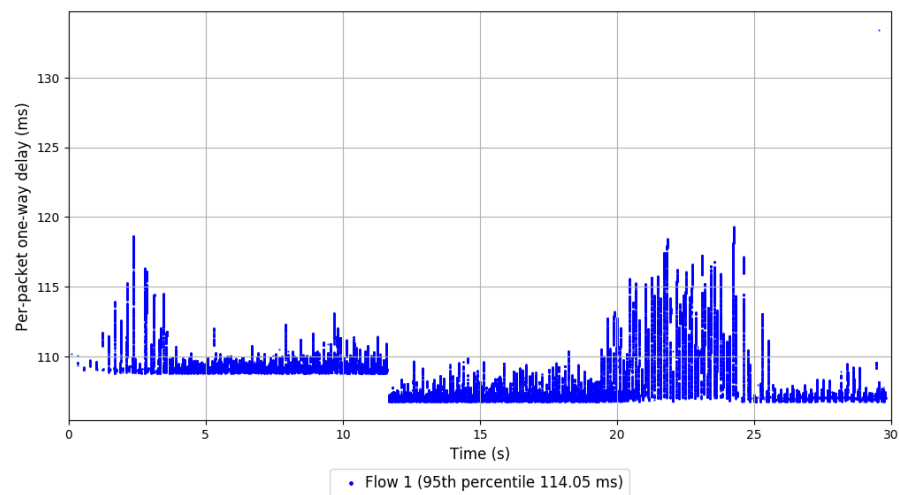
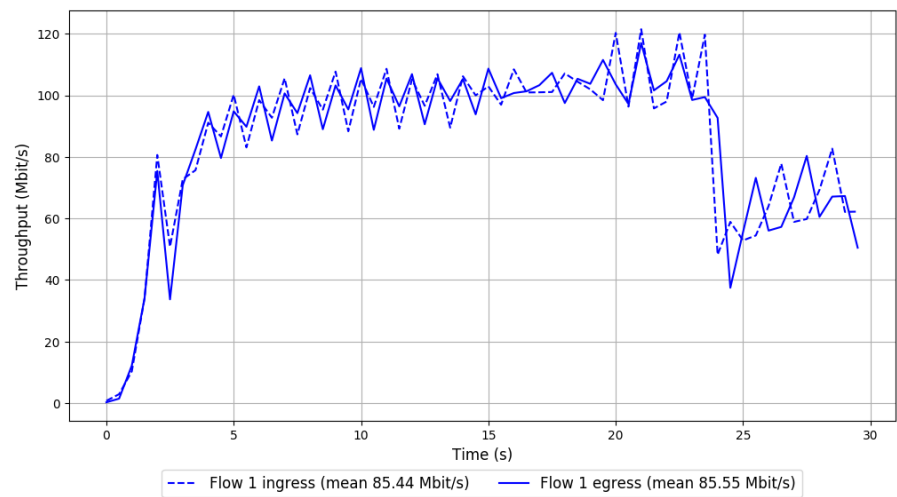
-- Flow 1:

Average throughput: 85.55 Mbit/s

95th percentile per-packet one-way delay: 114.049 ms

Loss rate: 0.61%

Run 10: Report of TCP Cubic — Data Link

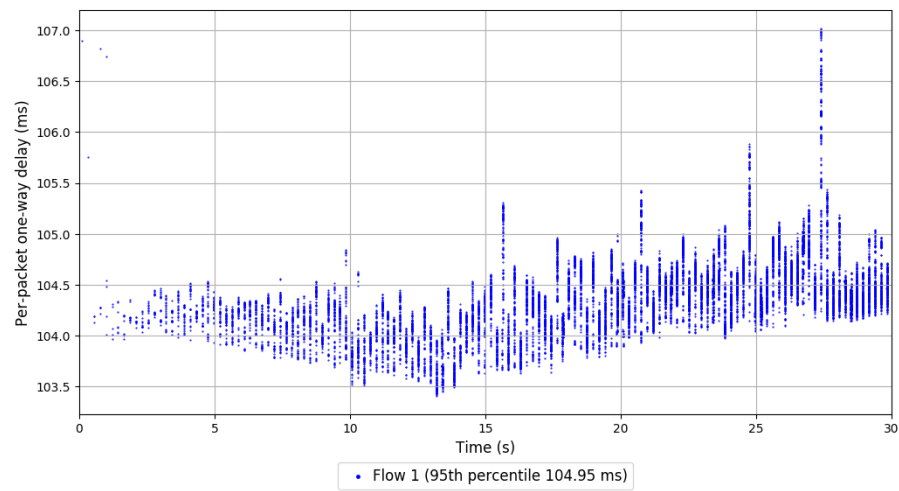
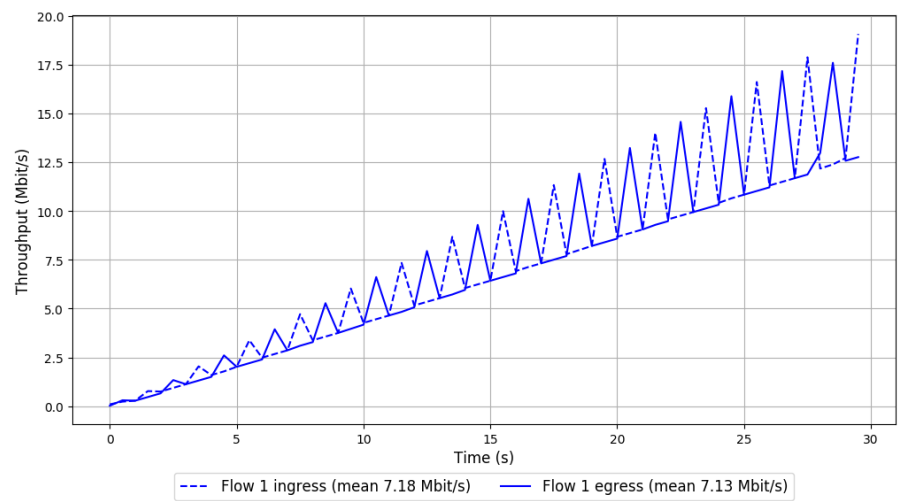


```
Run 1: Statistics of LEDBAT

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

# Below is generated by plot.py at 2018-02-19 22:13:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.13 Mbit/s
95th percentile per-packet one-way delay: 104.948 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 7.13 Mbit/s
95th percentile per-packet one-way delay: 104.948 ms
Loss rate: 1.50%
```


Run 1: Report of LEDBAT — Data Link

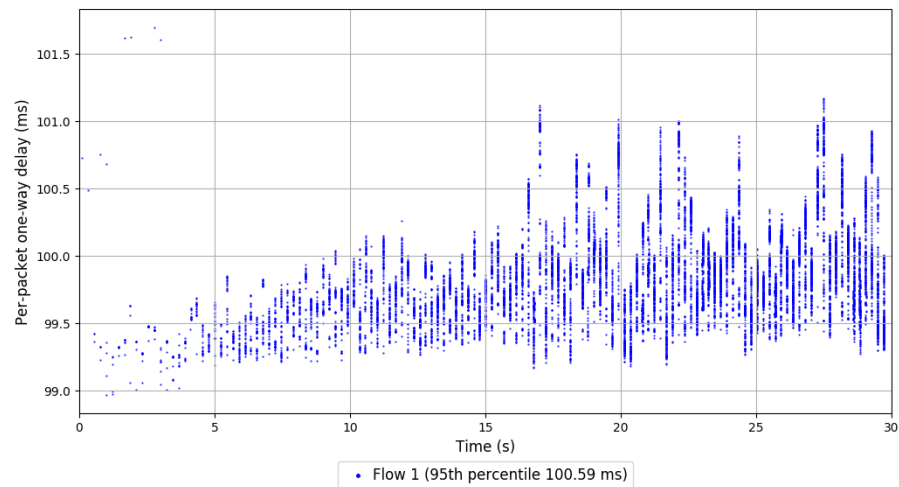
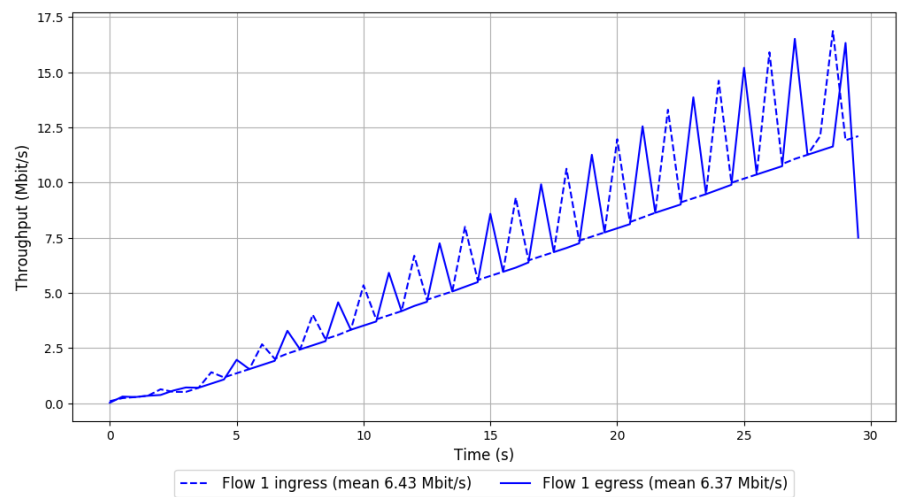


```
Run 2: Statistics of LEDBAT

Start at: 2018-02-19 17:03:32
End at: 2018-02-19 17:04:02

# Below is generated by plot.py at 2018-02-19 22:13:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.37 Mbit/s
95th percentile per-packet one-way delay: 100.588 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 6.37 Mbit/s
95th percentile per-packet one-way delay: 100.588 ms
Loss rate: 1.58%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

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

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

Below is generated by plot.py at 2018-02-19 22:13:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.18 Mbit/s

95th percentile per-packet one-way delay: 93.201 ms

Loss rate: 1.50%

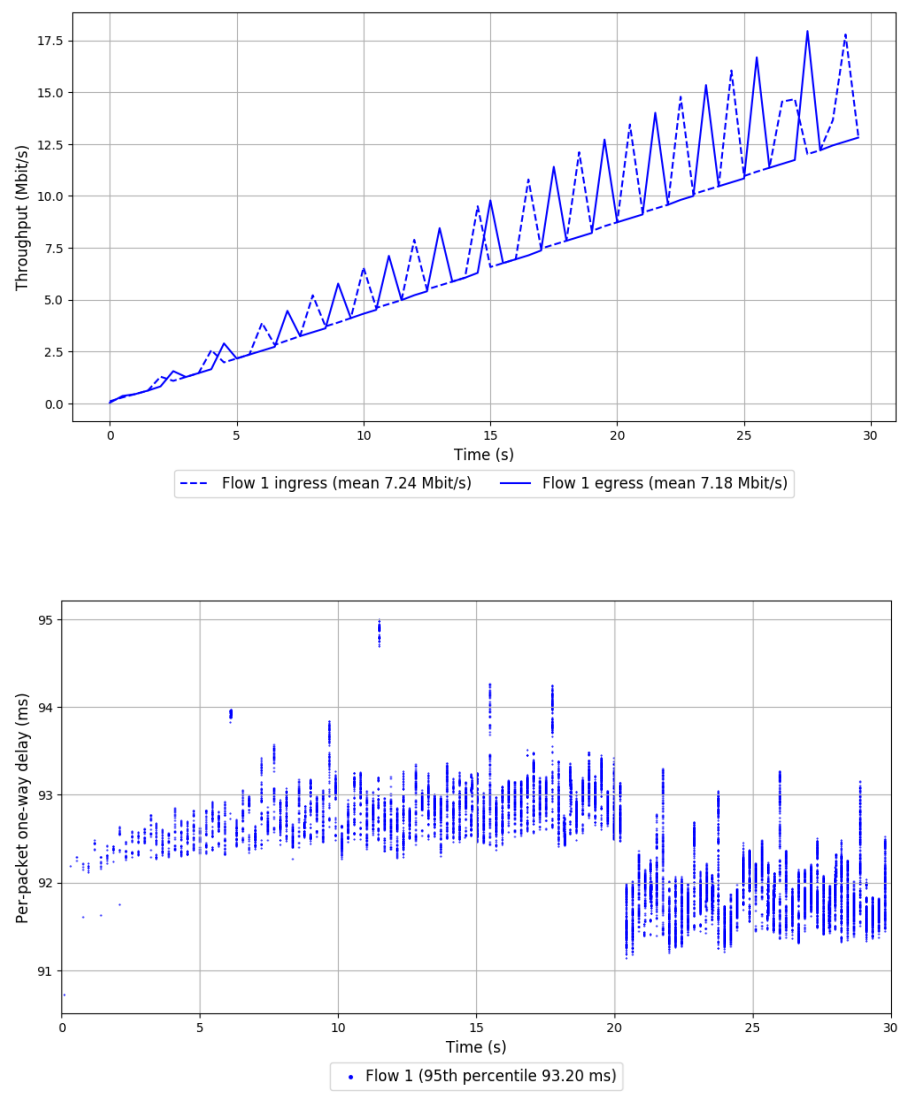
-- Flow 1:

Average throughput: 7.18 Mbit/s

95th percentile per-packet one-way delay: 93.201 ms

Loss rate: 1.50%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-19 17:35:09

End at: 2018-02-19 17:35:39

Below is generated by plot.py at 2018-02-19 22:13:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.34 Mbit/s

95th percentile per-packet one-way delay: 93.827 ms

Loss rate: 1.48%

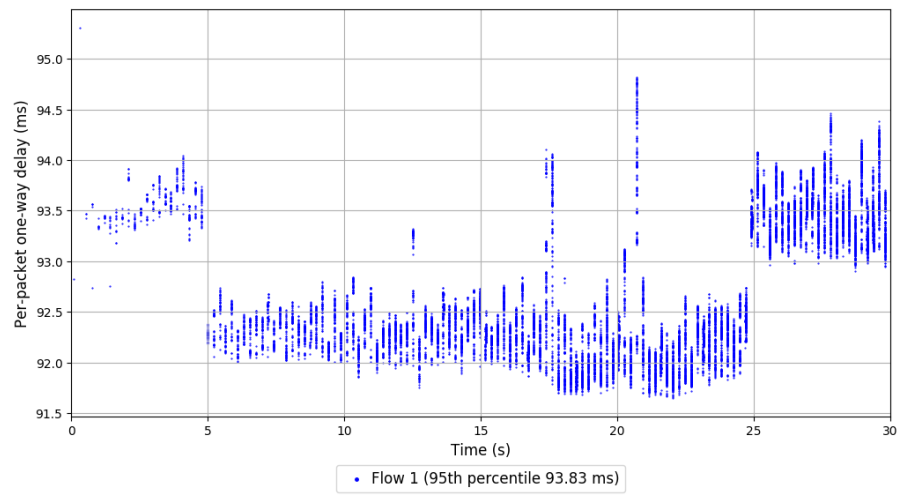
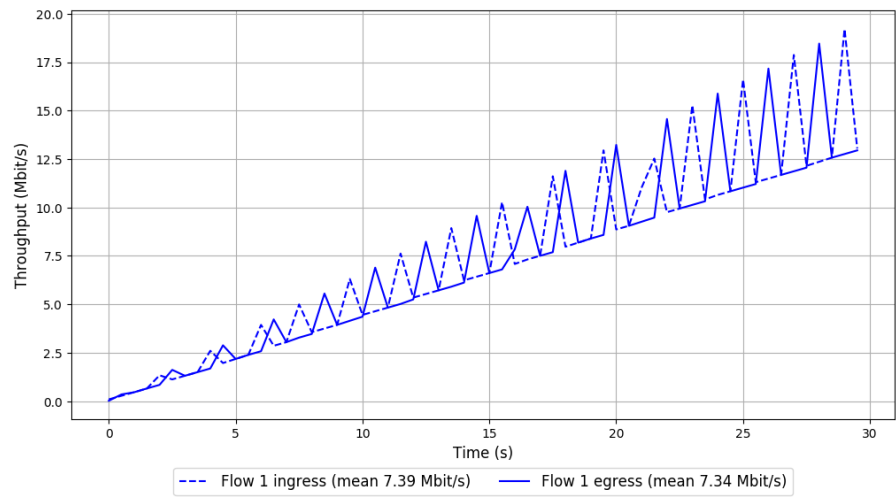
-- Flow 1:

Average throughput: 7.34 Mbit/s

95th percentile per-packet one-way delay: 93.827 ms

Loss rate: 1.48%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-19 17:50:53

End at: 2018-02-19 17:51:23

Below is generated by plot.py at 2018-02-19 22:13:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.93 Mbit/s

95th percentile per-packet one-way delay: 83.520 ms

Loss rate: 1.52%

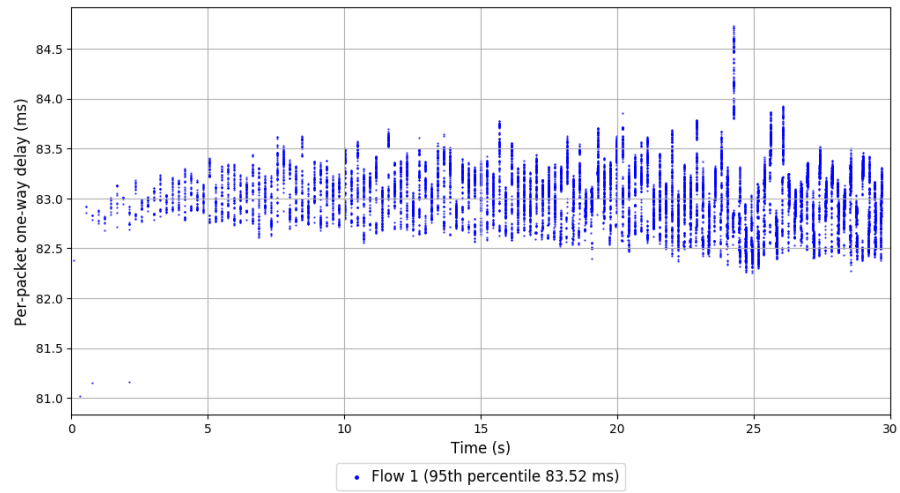
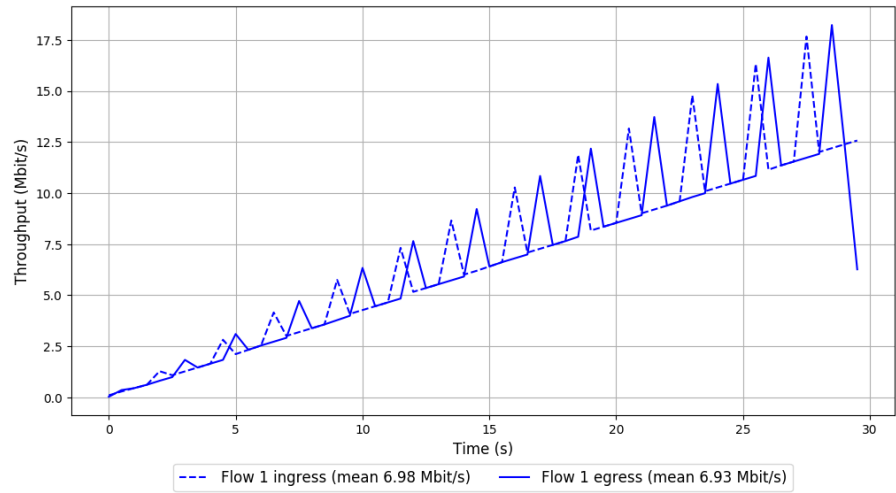
-- Flow 1:

Average throughput: 6.93 Mbit/s

95th percentile per-packet one-way delay: 83.520 ms

Loss rate: 1.52%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-19 18:06:22

End at: 2018-02-19 18:06:52

Below is generated by plot.py at 2018-02-19 22:13:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.01 Mbit/s

95th percentile per-packet one-way delay: 101.572 ms

Loss rate: 1.50%

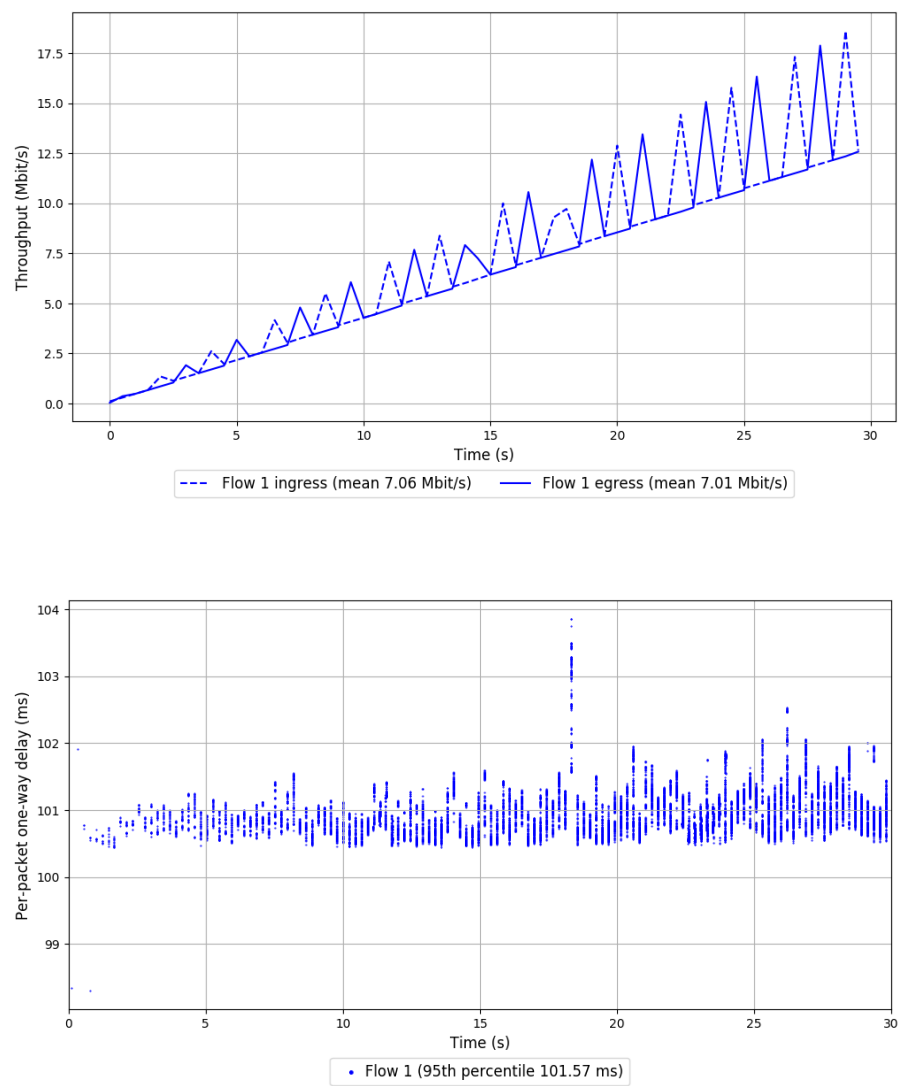
-- Flow 1:

Average throughput: 7.01 Mbit/s

95th percentile per-packet one-way delay: 101.572 ms

Loss rate: 1.50%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-19 18:22:33

End at: 2018-02-19 18:23:03

Below is generated by plot.py at 2018-02-19 22:13:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.00 Mbit/s

95th percentile per-packet one-way delay: 98.842 ms

Loss rate: 3.52%

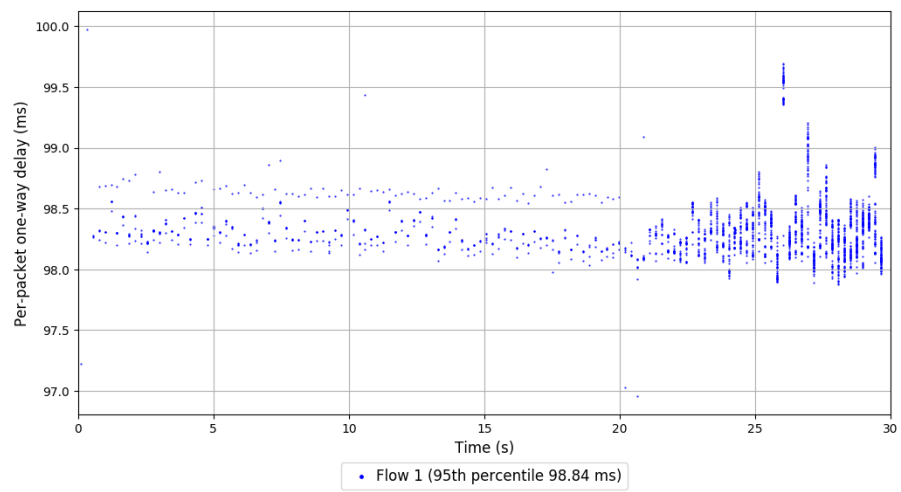
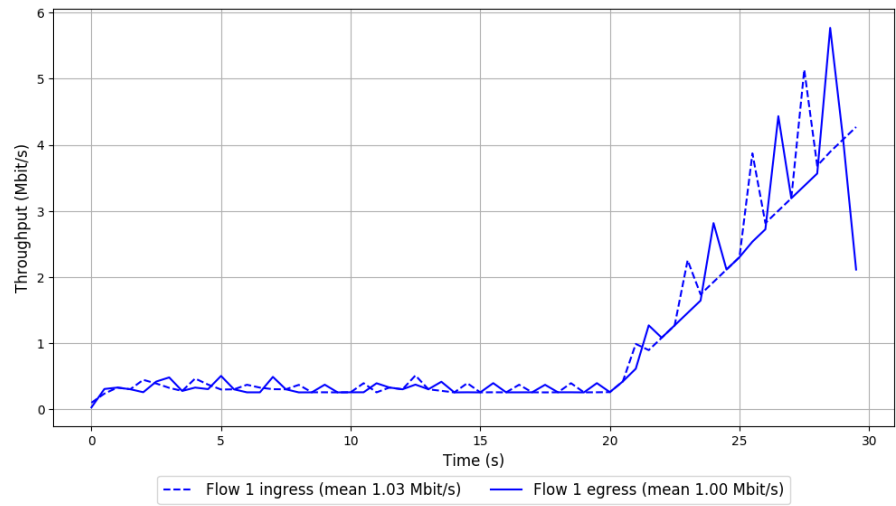
-- Flow 1:

Average throughput: 1.00 Mbit/s

95th percentile per-packet one-way delay: 98.842 ms

Loss rate: 3.52%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-19 18:39:12

End at: 2018-02-19 18:39:42

Below is generated by plot.py at 2018-02-19 22:13:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.01 Mbit/s

95th percentile per-packet one-way delay: 107.265 ms

Loss rate: 1.50%

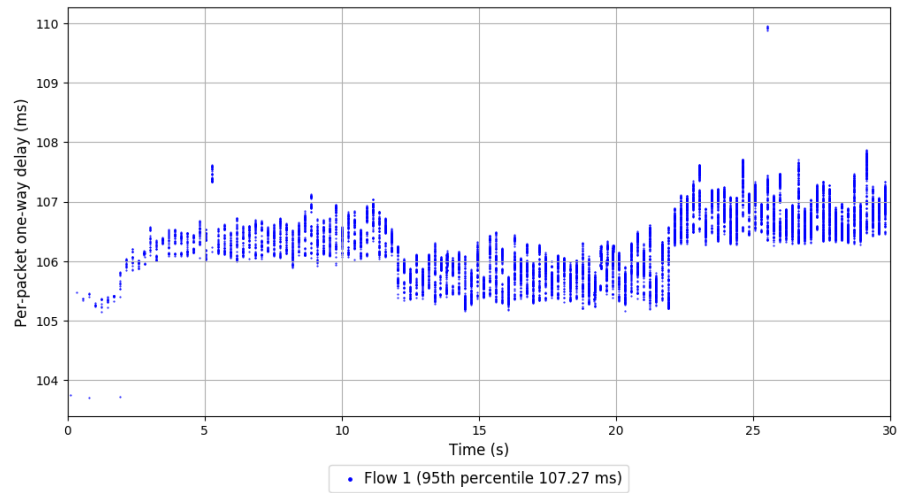
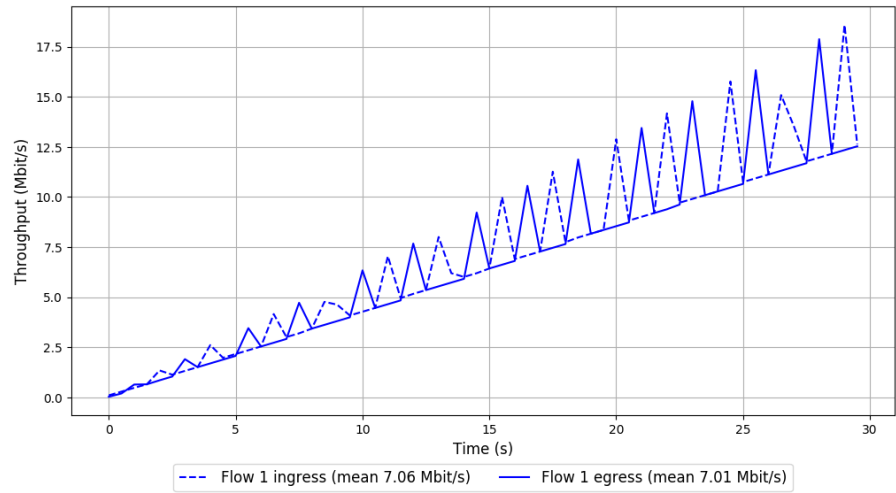
-- Flow 1:

Average throughput: 7.01 Mbit/s

95th percentile per-packet one-way delay: 107.265 ms

Loss rate: 1.50%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-19 18:54:57

End at: 2018-02-19 18:55:27

Below is generated by plot.py at 2018-02-19 22:13:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.06 Mbit/s

95th percentile per-packet one-way delay: 106.915 ms

Loss rate: 1.51%

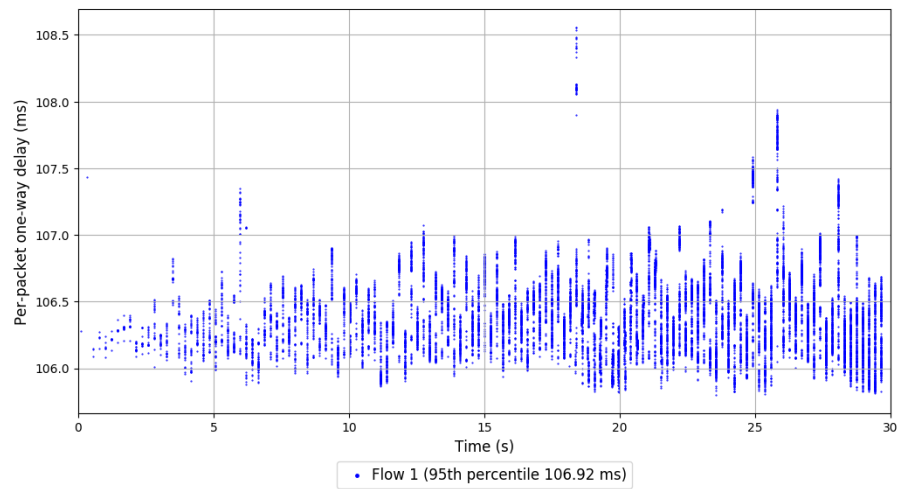
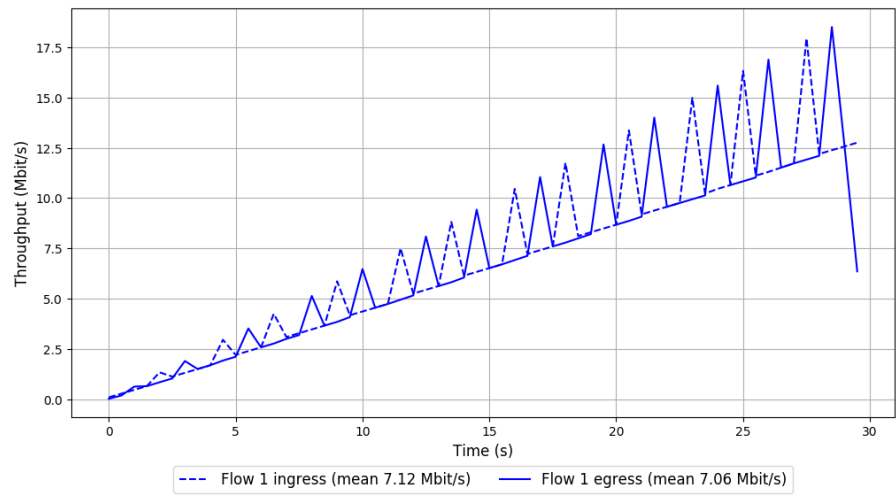
-- Flow 1:

Average throughput: 7.06 Mbit/s

95th percentile per-packet one-way delay: 106.915 ms

Loss rate: 1.51%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-19 19:10:40

End at: 2018-02-19 19:11:10

Below is generated by plot.py at 2018-02-19 22:13:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.13 Mbit/s

95th percentile per-packet one-way delay: 108.720 ms

Loss rate: 1.50%

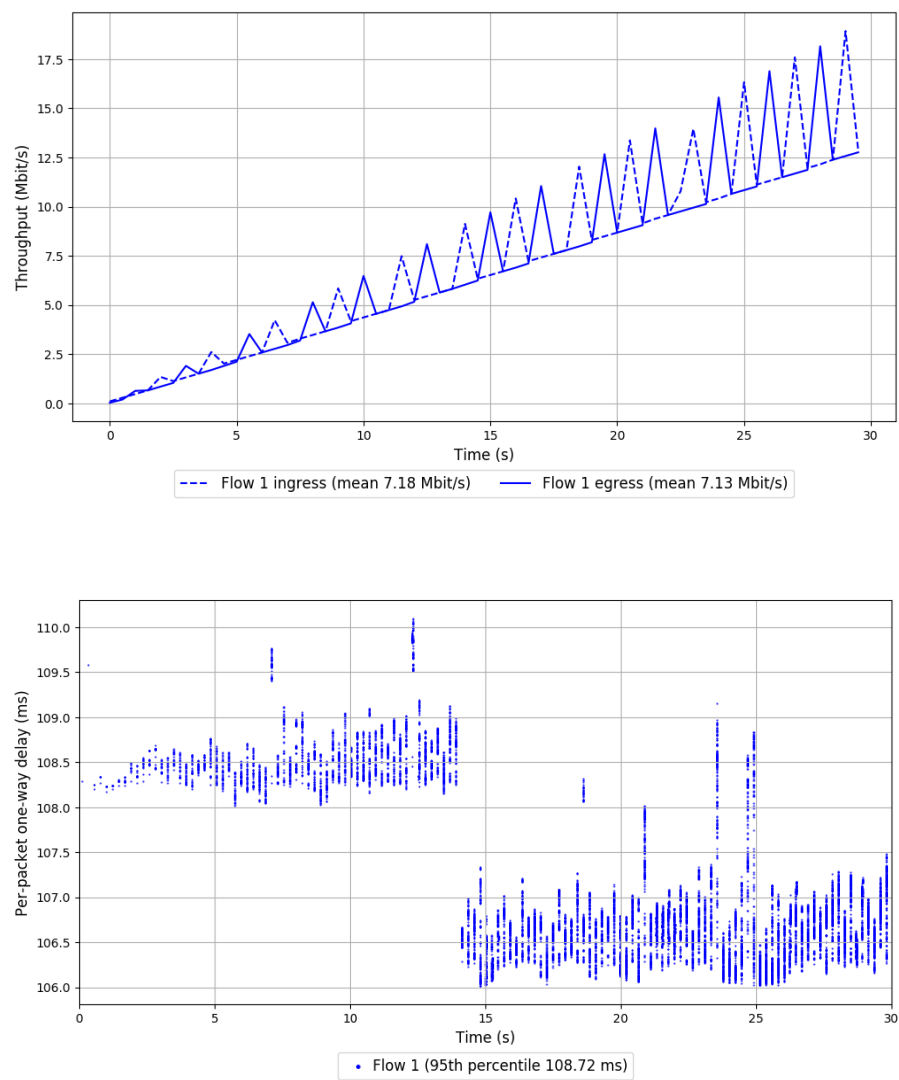
-- Flow 1:

Average throughput: 7.13 Mbit/s

95th percentile per-packet one-way delay: 108.720 ms

Loss rate: 1.50%

Run 10: Report of LEDBAT — Data Link

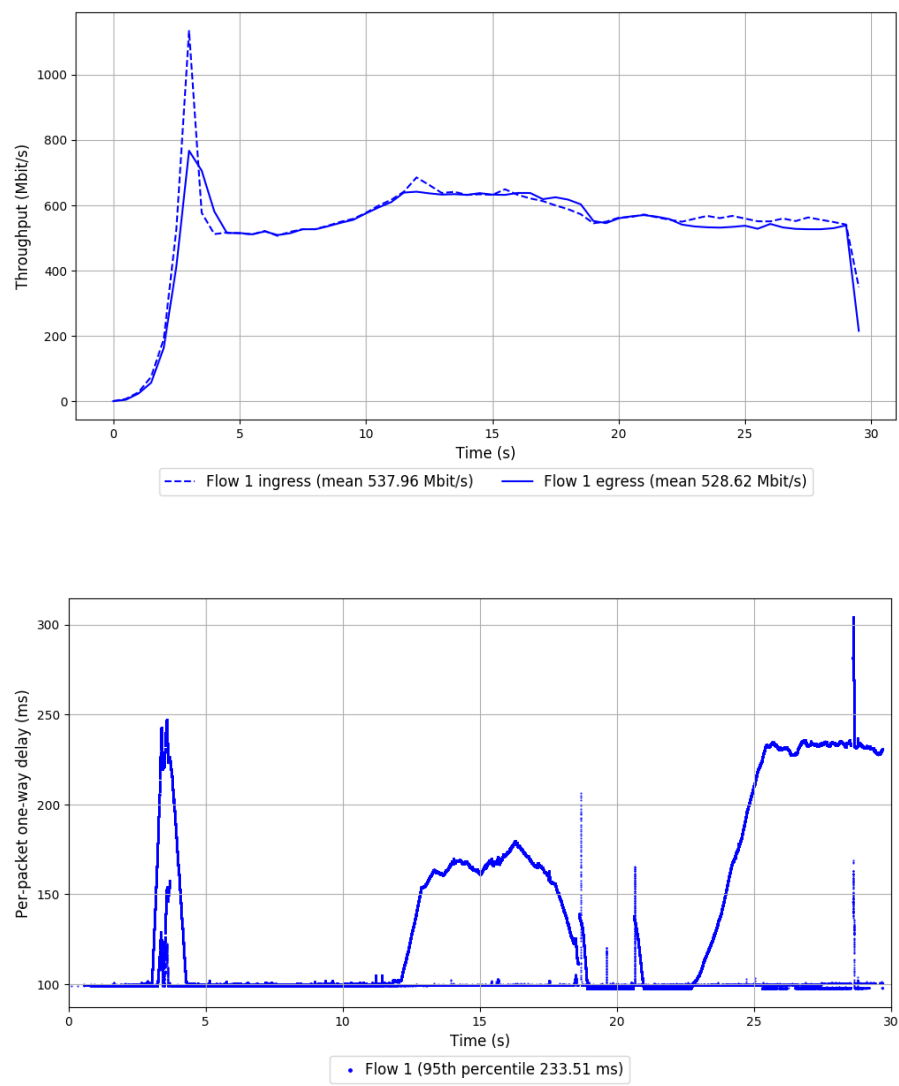


```
Run 1: Statistics of PCC

Start at: 2018-02-19 17:01:46
End at: 2018-02-19 17:02:16

# Below is generated by plot.py at 2018-02-19 22:20:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 528.62 Mbit/s
95th percentile per-packet one-way delay: 233.509 ms
Loss rate: 2.47%
-- Flow 1:
Average throughput: 528.62 Mbit/s
95th percentile per-packet one-way delay: 233.509 ms
Loss rate: 2.47%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

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

End at: 2018-02-19 17:18:07

Below is generated by plot.py at 2018-02-19 22:20:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 512.60 Mbit/s

95th percentile per-packet one-way delay: 232.614 ms

Loss rate: 5.50%

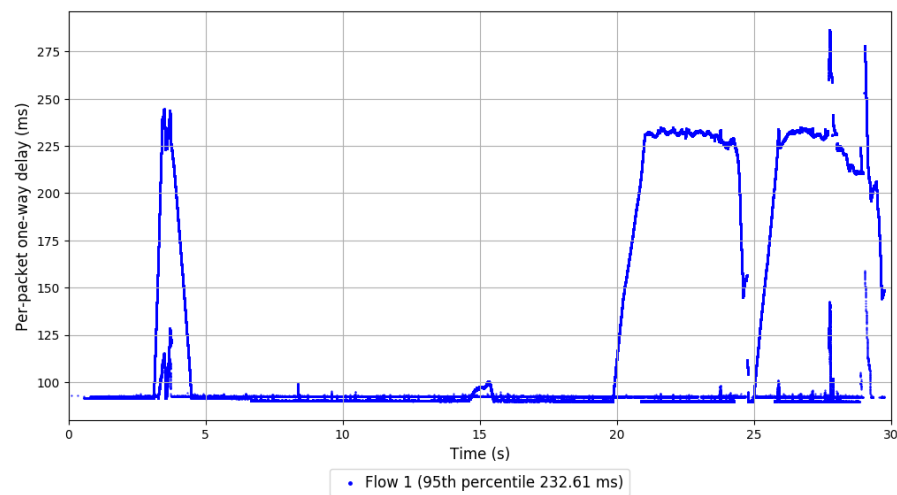
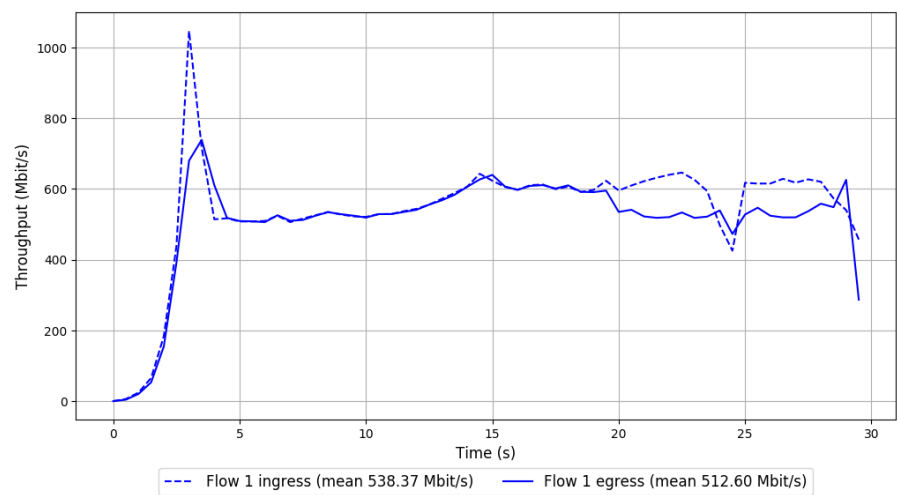
-- Flow 1:

Average throughput: 512.60 Mbit/s

95th percentile per-packet one-way delay: 232.614 ms

Loss rate: 5.50%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-19 17:33:20

End at: 2018-02-19 17:33:50

Below is generated by plot.py at 2018-02-19 22:21:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 555.47 Mbit/s

95th percentile per-packet one-way delay: 206.494 ms

Loss rate: 2.20%

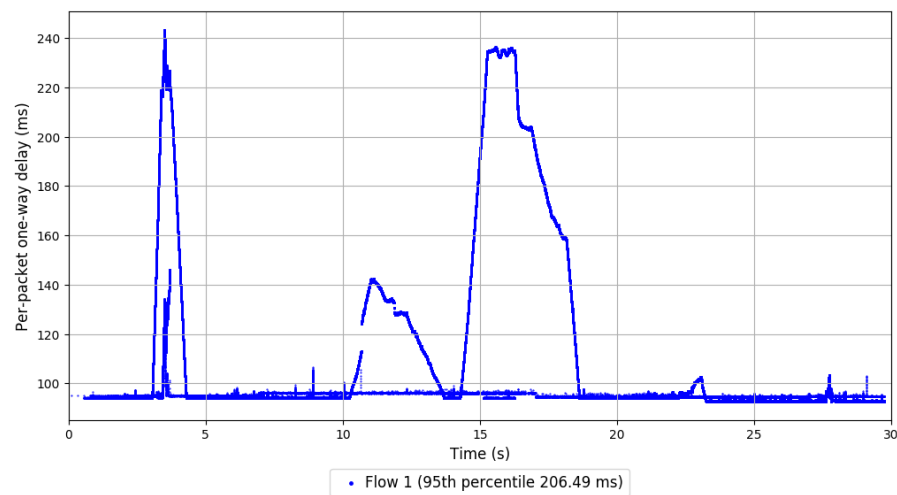
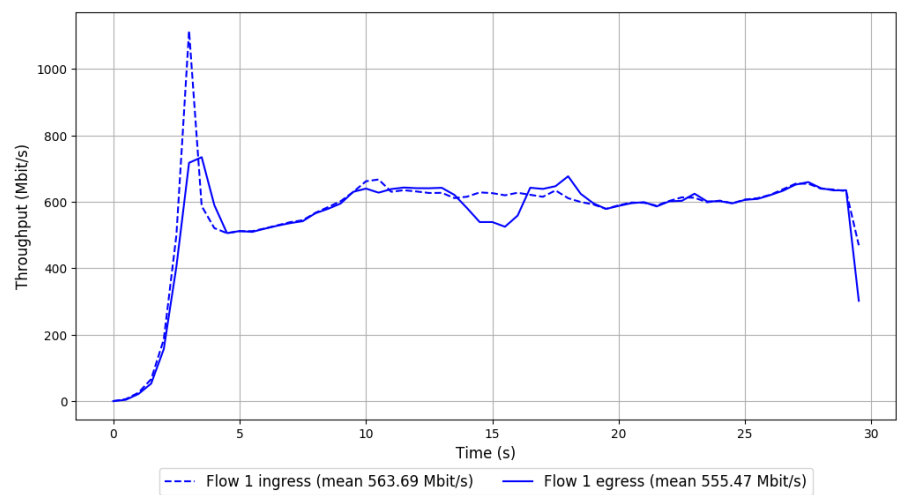
-- Flow 1:

Average throughput: 555.47 Mbit/s

95th percentile per-packet one-way delay: 206.494 ms

Loss rate: 2.20%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-19 17:49:05

End at: 2018-02-19 17:49:35

Below is generated by plot.py at 2018-02-19 22:21:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 556.37 Mbit/s

95th percentile per-packet one-way delay: 115.559 ms

Loss rate: 1.77%

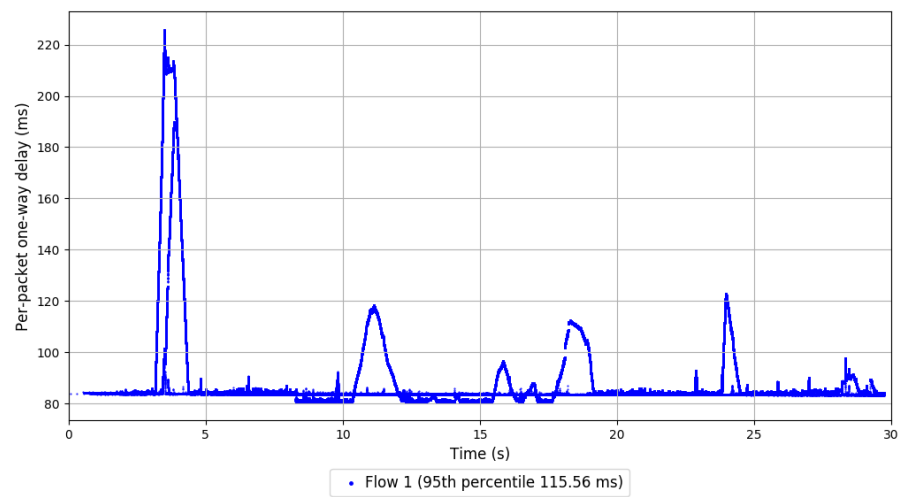
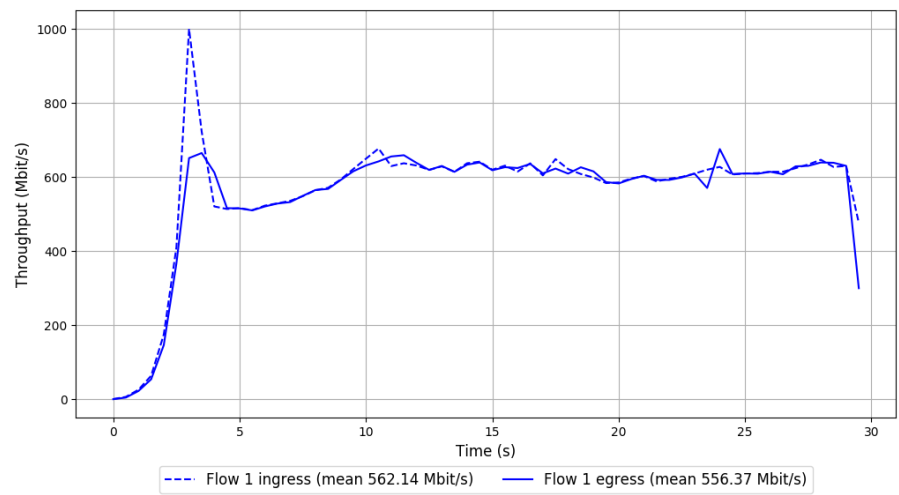
-- Flow 1:

Average throughput: 556.37 Mbit/s

95th percentile per-packet one-way delay: 115.559 ms

Loss rate: 1.77%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-19 18:04:34

End at: 2018-02-19 18:05:04

Below is generated by plot.py at 2018-02-19 22:21:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 572.84 Mbit/s

95th percentile per-packet one-way delay: 210.094 ms

Loss rate: 1.86%

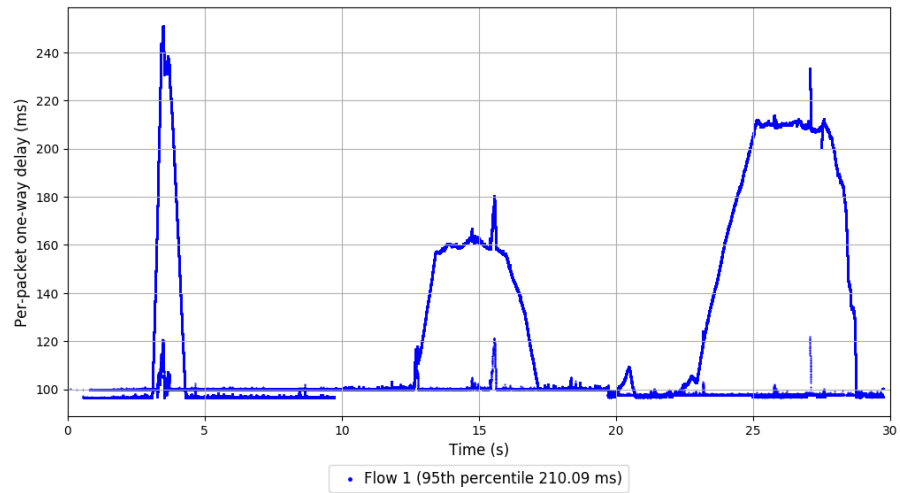
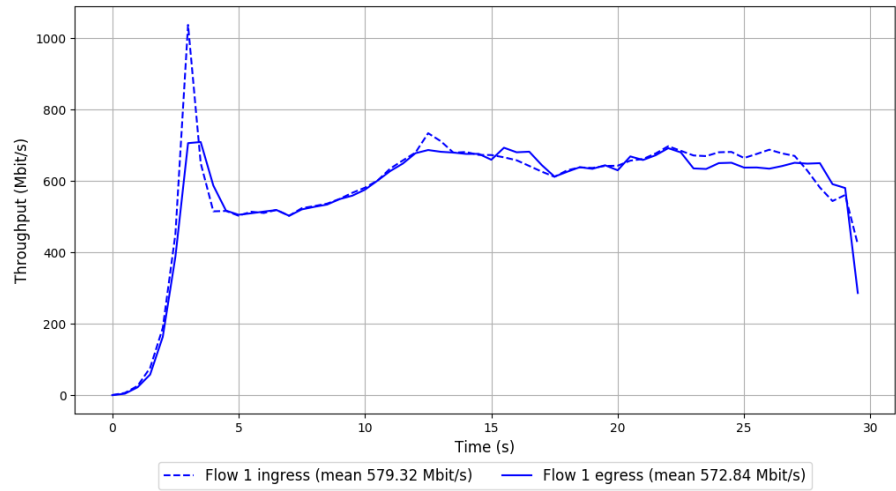
-- Flow 1:

Average throughput: 572.84 Mbit/s

95th percentile per-packet one-way delay: 210.094 ms

Loss rate: 1.86%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-19 18:20:40

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

Below is generated by plot.py at 2018-02-19 22:21:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 550.96 Mbit/s

95th percentile per-packet one-way delay: 214.369 ms

Loss rate: 2.08%

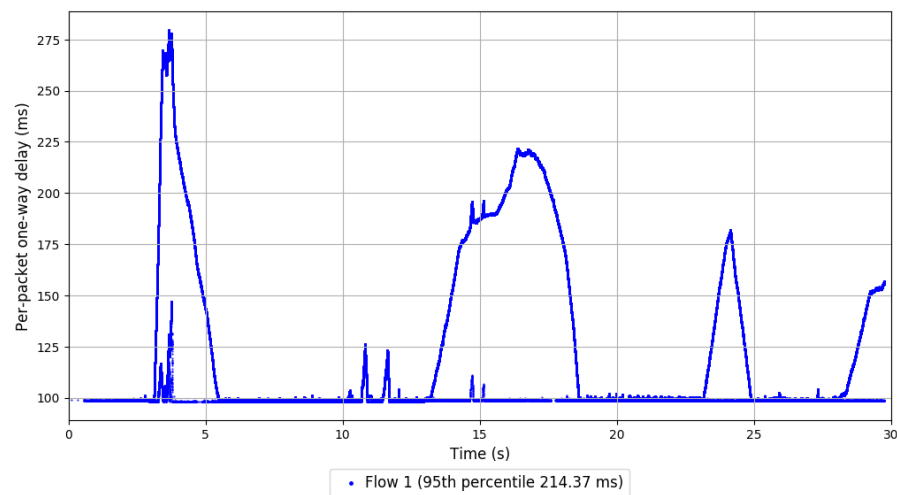
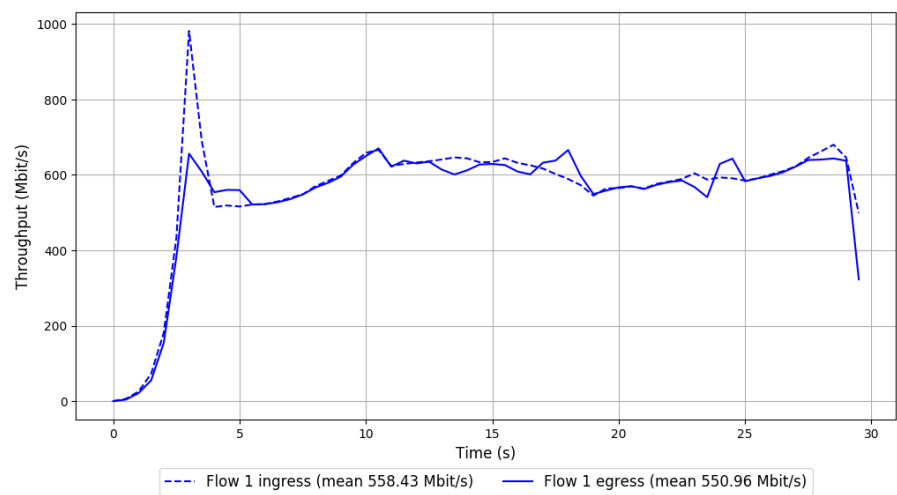
-- Flow 1:

Average throughput: 550.96 Mbit/s

95th percentile per-packet one-way delay: 214.369 ms

Loss rate: 2.08%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

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

End at: 2018-02-19 18:37:40

Below is generated by plot.py at 2018-02-19 22:21:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 532.01 Mbit/s

95th percentile per-packet one-way delay: 243.744 ms

Loss rate: 3.38%

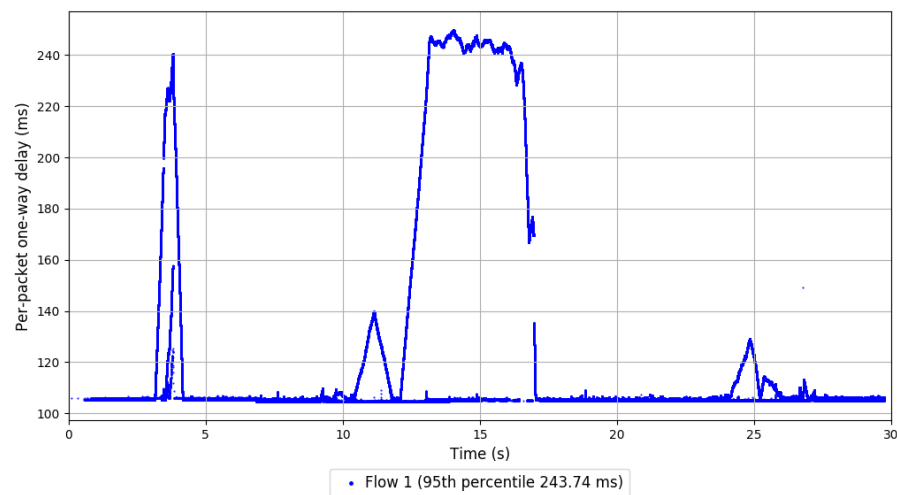
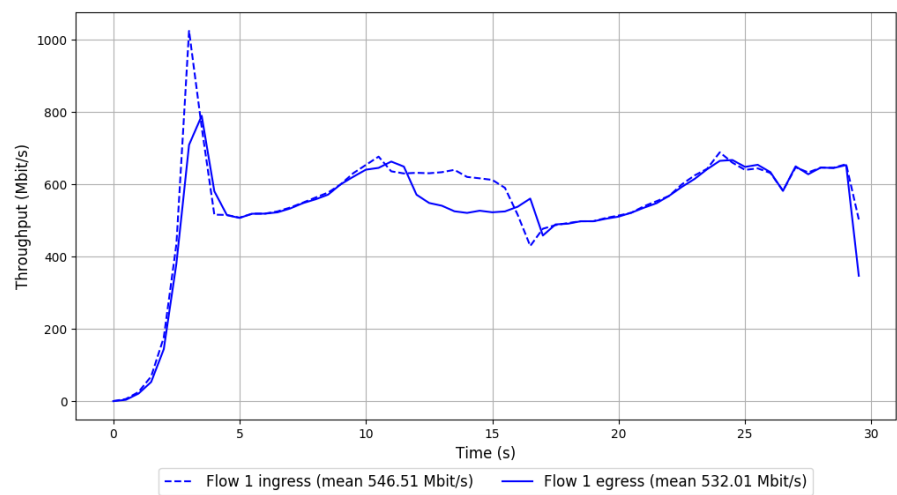
-- Flow 1:

Average throughput: 532.01 Mbit/s

95th percentile per-packet one-way delay: 243.744 ms

Loss rate: 3.38%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-19 18:53:08

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

Below is generated by plot.py at 2018-02-19 22:23:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 601.55 Mbit/s

95th percentile per-packet one-way delay: 217.696 ms

Loss rate: 2.58%

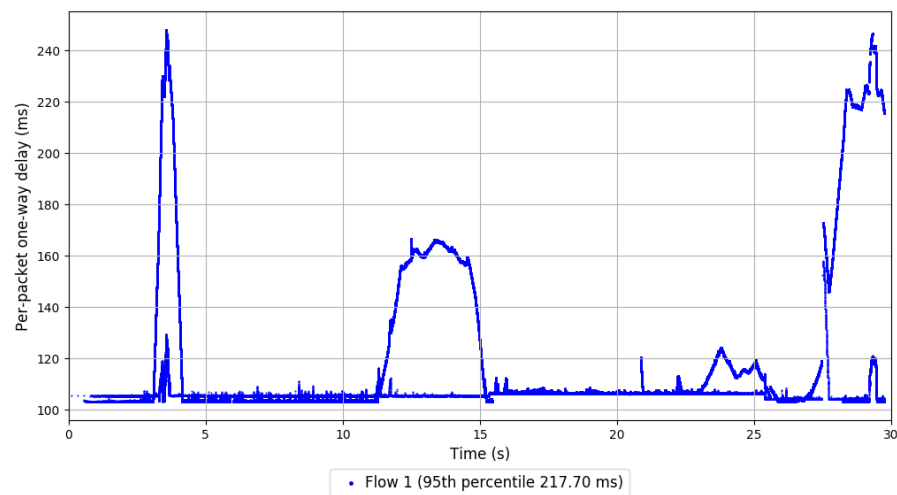
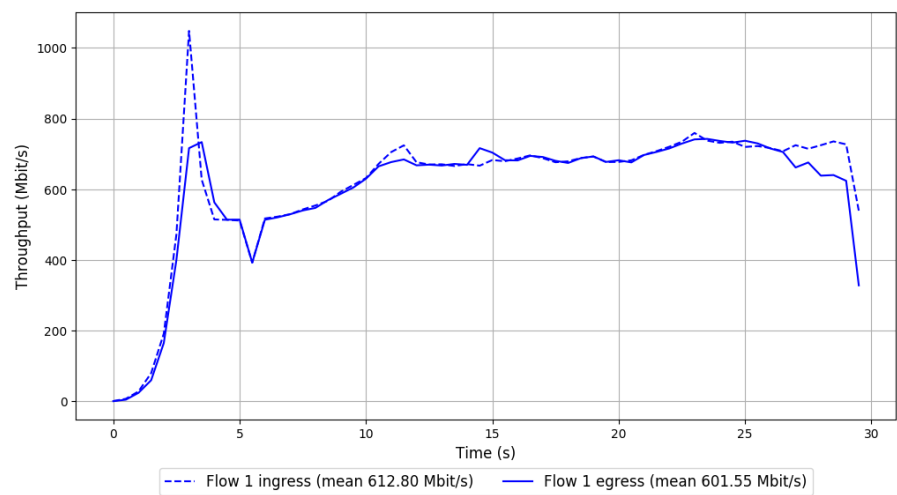
-- Flow 1:

Average throughput: 601.55 Mbit/s

95th percentile per-packet one-way delay: 217.696 ms

Loss rate: 2.58%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-19 19:08:51

End at: 2018-02-19 19:09:21

Below is generated by plot.py at 2018-02-19 22:30:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 587.53 Mbit/s

95th percentile per-packet one-way delay: 118.295 ms

Loss rate: 1.51%

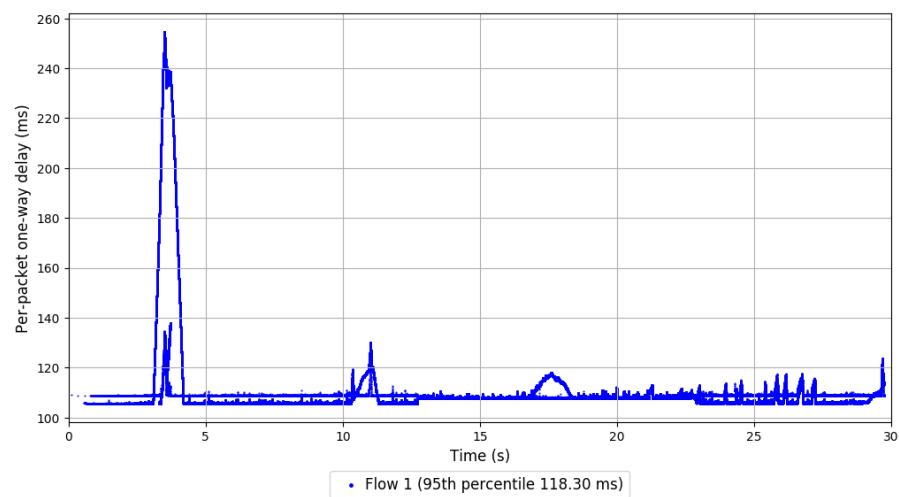
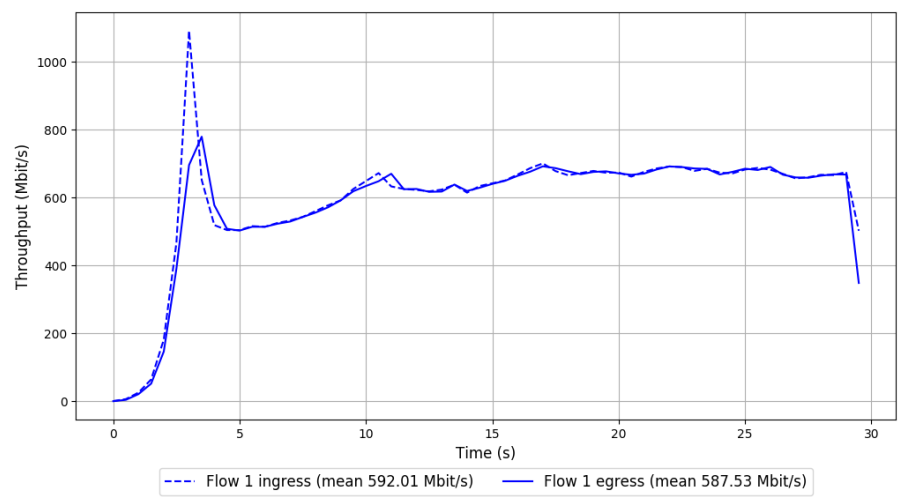
-- Flow 1:

Average throughput: 587.53 Mbit/s

95th percentile per-packet one-way delay: 118.295 ms

Loss rate: 1.51%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-19 19:24:26

End at: 2018-02-19 19:24:56

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 601.51 Mbit/s

95th percentile per-packet one-way delay: 148.432 ms

Loss rate: 1.65%

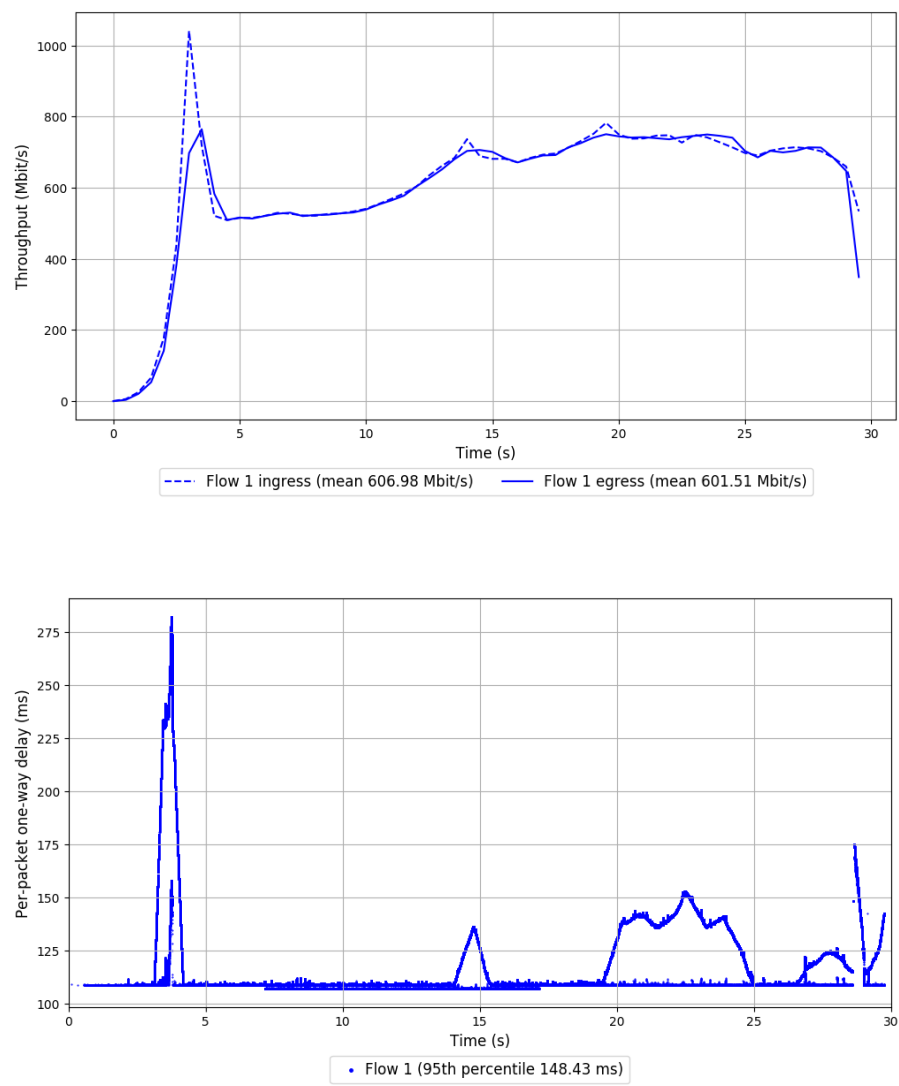
-- Flow 1:

Average throughput: 601.51 Mbit/s

95th percentile per-packet one-way delay: 148.432 ms

Loss rate: 1.65%

Run 10: Report of PCC — Data Link

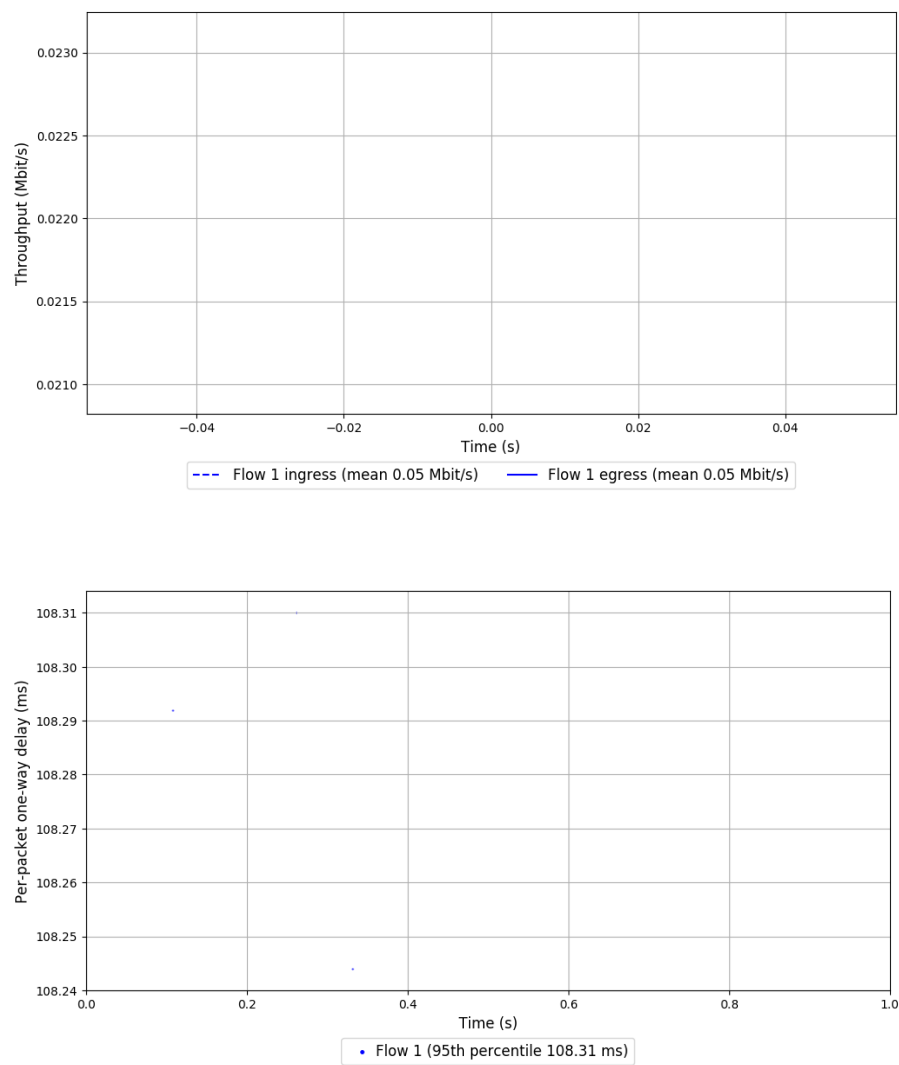


Run 1: Statistics of QUIC Cubic

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

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

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

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

End at: 2018-02-19 17:03:18

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.66 Mbit/s

95th percentile per-packet one-way delay: 101.293 ms

Loss rate: 1.00%

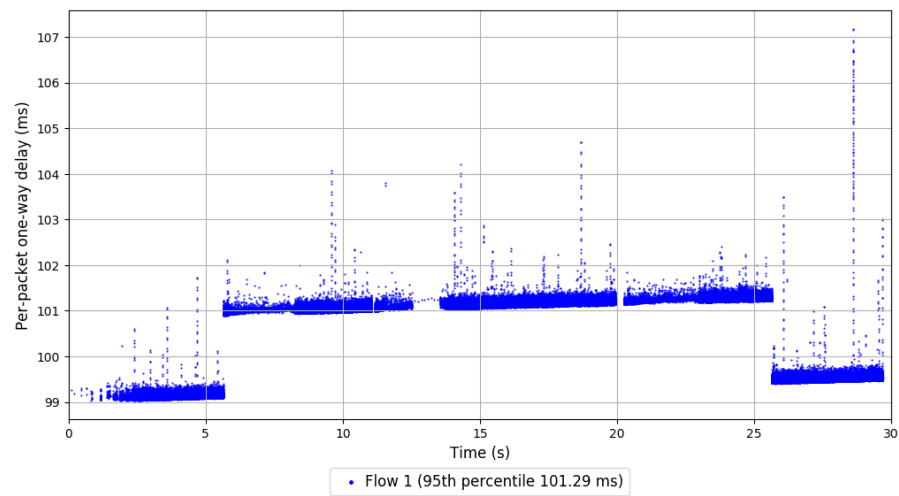
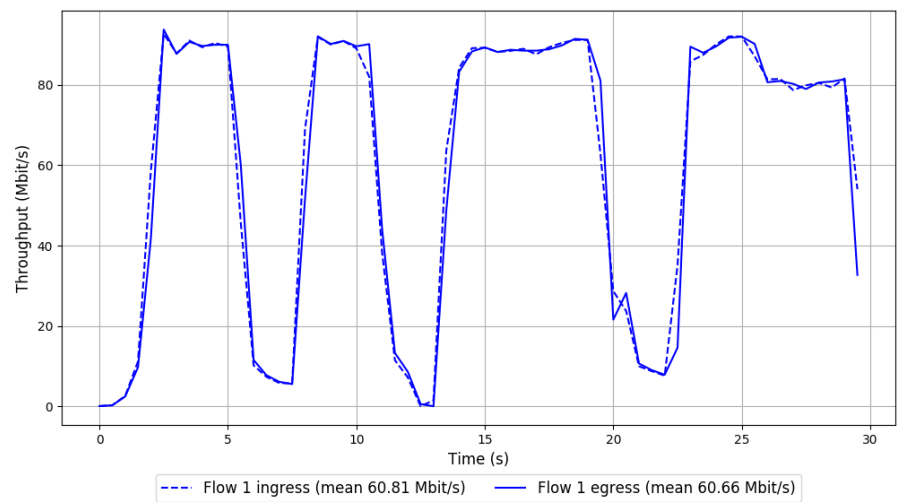
-- Flow 1:

Average throughput: 60.66 Mbit/s

95th percentile per-packet one-way delay: 101.293 ms

Loss rate: 1.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-19 17:18:38

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

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.87 Mbit/s

95th percentile per-packet one-way delay: 93.126 ms

Loss rate: 1.04%

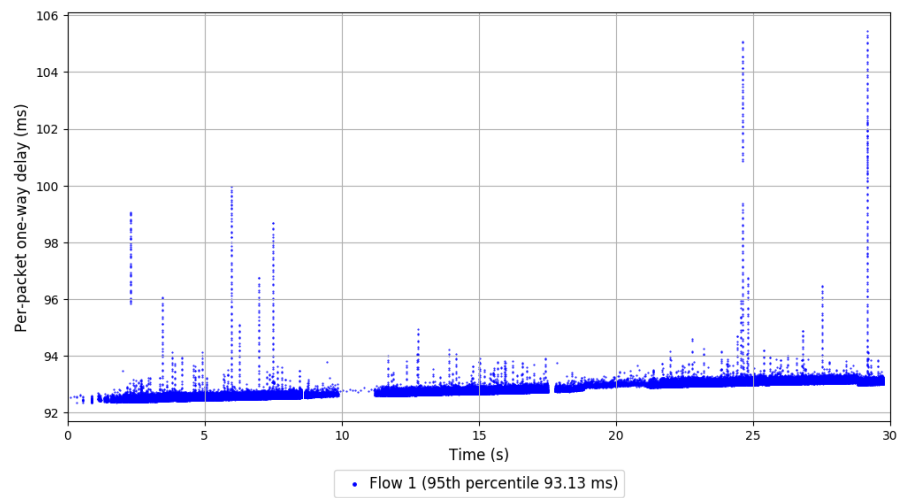
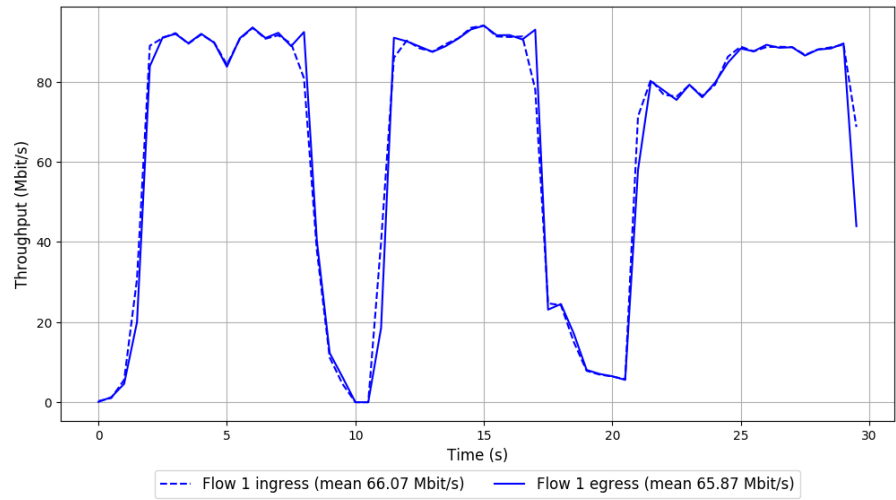
-- Flow 1:

Average throughput: 65.87 Mbit/s

95th percentile per-packet one-way delay: 93.126 ms

Loss rate: 1.04%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-19 17:34:24

End at: 2018-02-19 17:34:54

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.26 Mbit/s

95th percentile per-packet one-way delay: 96.176 ms

Loss rate: 0.93%

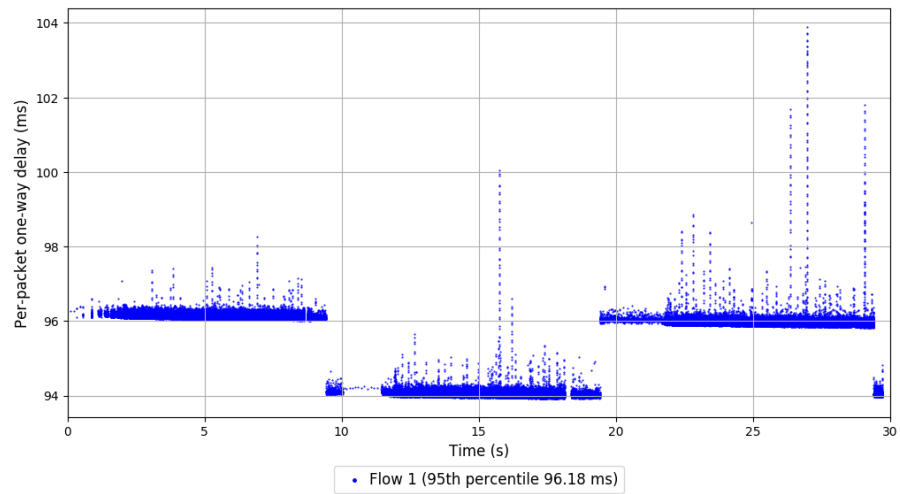
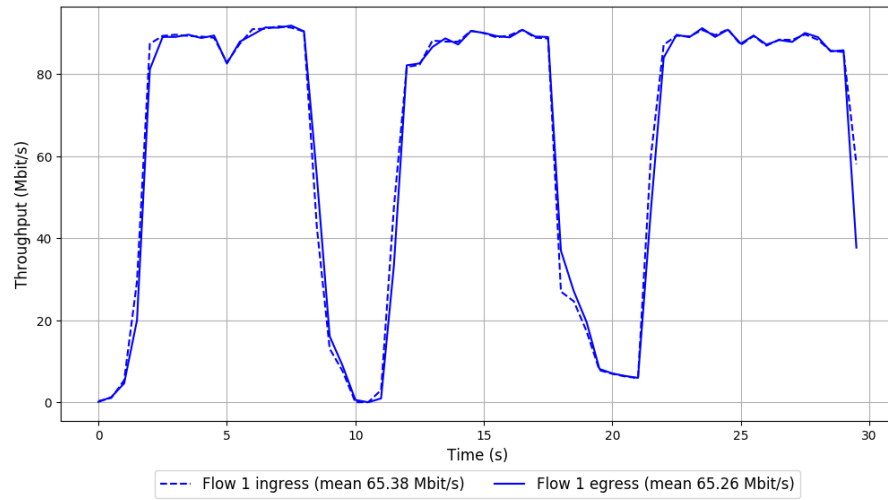
-- Flow 1:

Average throughput: 65.26 Mbit/s

95th percentile per-packet one-way delay: 96.176 ms

Loss rate: 0.93%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-19 17:50:08

End at: 2018-02-19 17:50:38

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.74 Mbit/s

95th percentile per-packet one-way delay: 83.682 ms

Loss rate: 1.03%

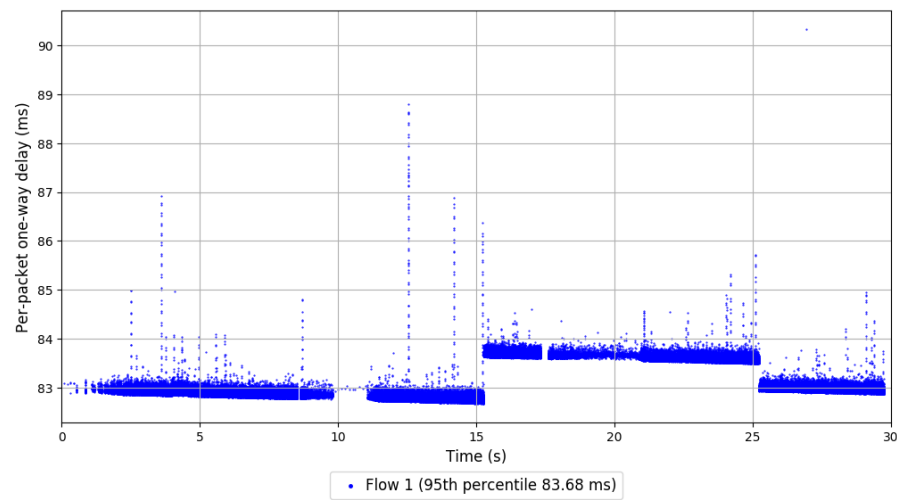
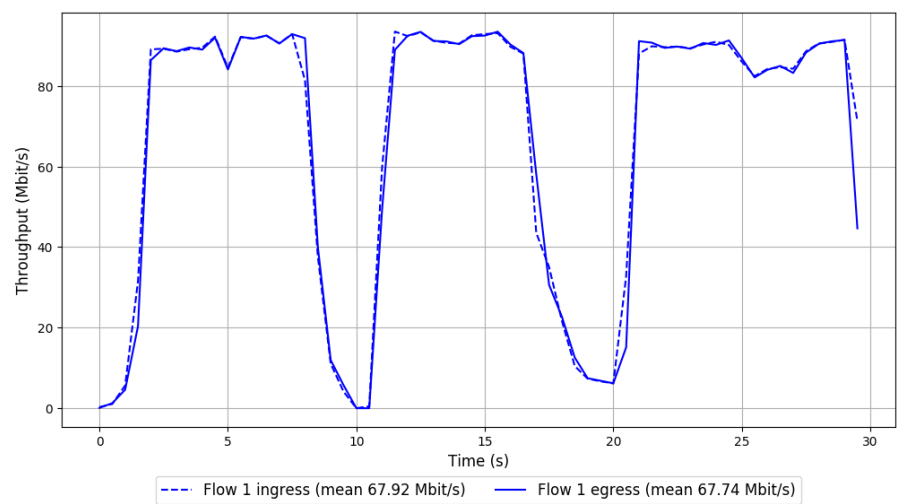
-- Flow 1:

Average throughput: 67.74 Mbit/s

95th percentile per-packet one-way delay: 83.682 ms

Loss rate: 1.03%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-19 18:05:37

End at: 2018-02-19 18:06:07

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.56 Mbit/s

95th percentile per-packet one-way delay: 102.072 ms

Loss rate: 0.95%

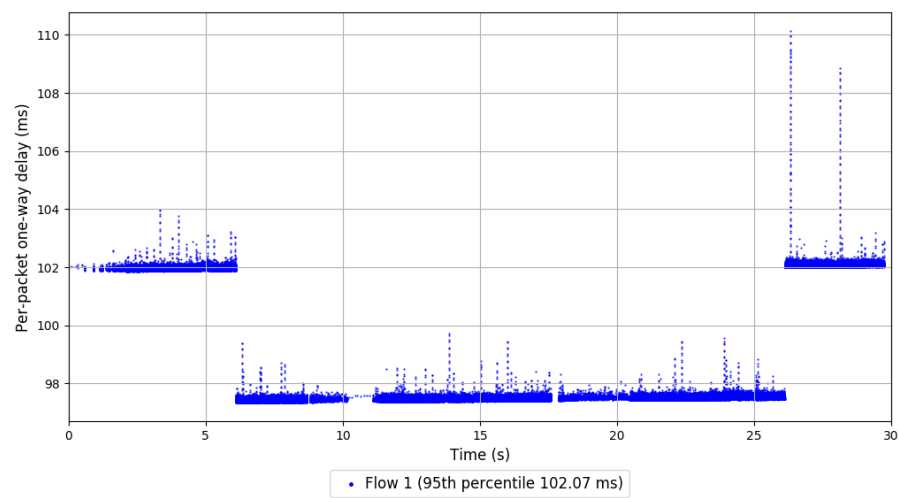
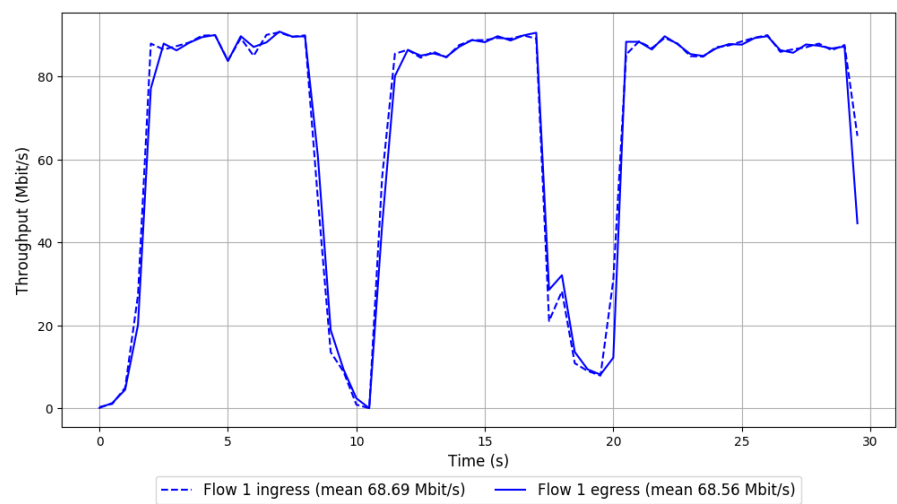
-- Flow 1:

Average throughput: 68.56 Mbit/s

95th percentile per-packet one-way delay: 102.072 ms

Loss rate: 0.95%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-19 18:21:48

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

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.72 Mbit/s

95th percentile per-packet one-way delay: 98.353 ms

Loss rate: 0.99%

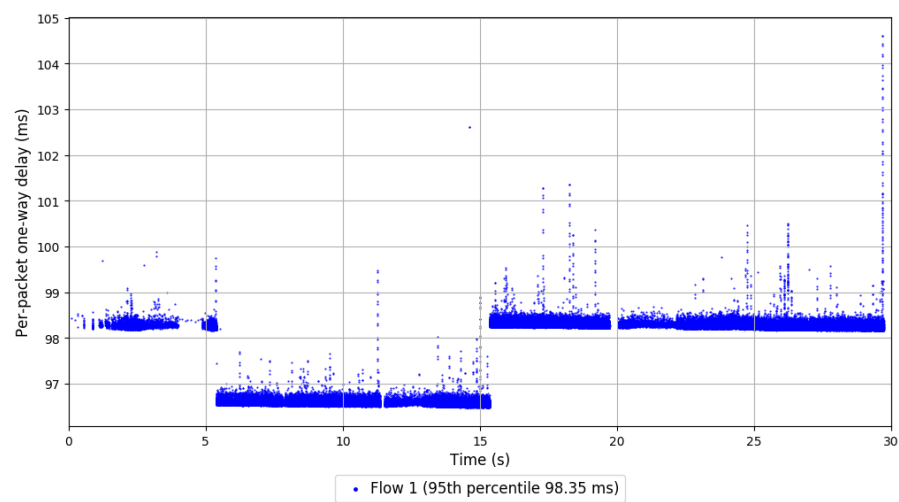
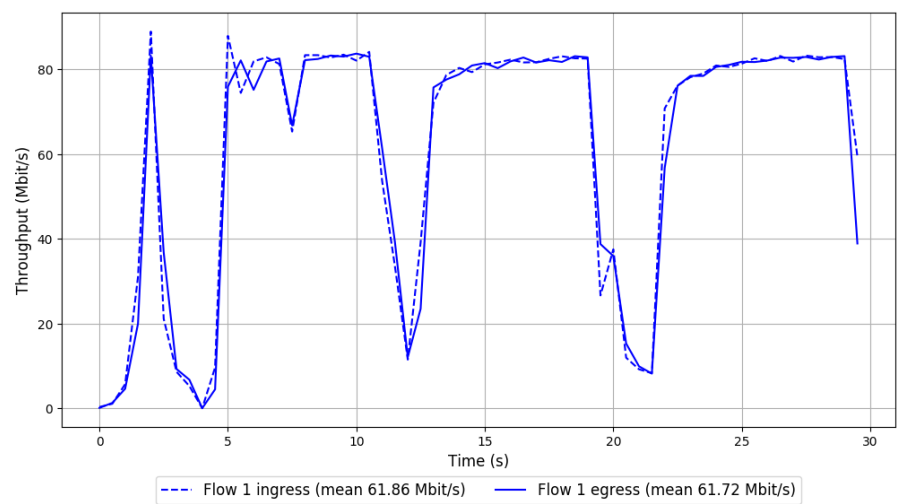
-- Flow 1:

Average throughput: 61.72 Mbit/s

95th percentile per-packet one-way delay: 98.353 ms

Loss rate: 0.99%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-19 18:38:24

End at: 2018-02-19 18:38:54

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.99 Mbit/s

95th percentile per-packet one-way delay: 106.393 ms

Loss rate: 0.96%

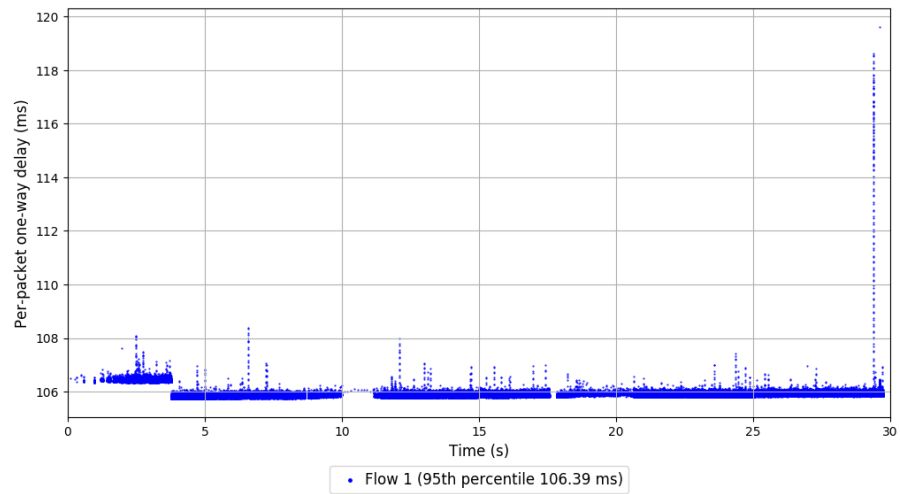
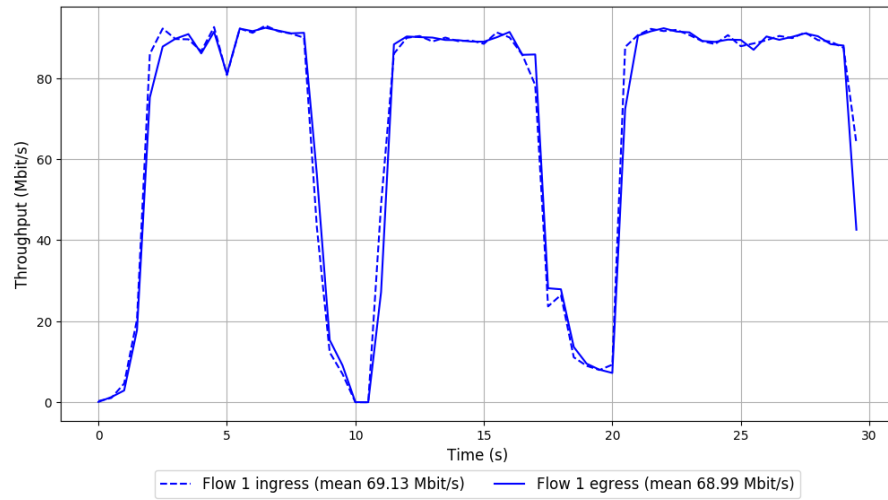
-- Flow 1:

Average throughput: 68.99 Mbit/s

95th percentile per-packet one-way delay: 106.393 ms

Loss rate: 0.96%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-19 18:54:13

End at: 2018-02-19 18:54:43

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.64 Mbit/s

95th percentile per-packet one-way delay: 104.859 ms

Loss rate: 0.94%

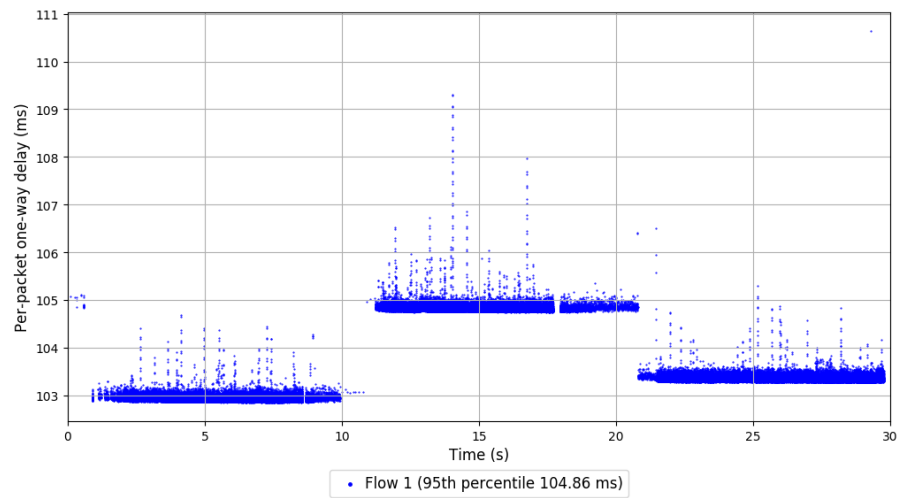
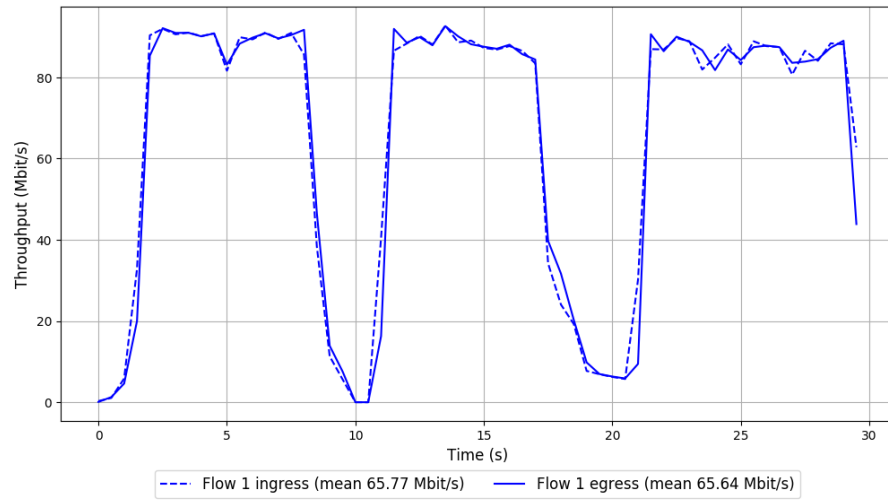
-- Flow 1:

Average throughput: 65.64 Mbit/s

95th percentile per-packet one-way delay: 104.859 ms

Loss rate: 0.94%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

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

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

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.04 Mbit/s

95th percentile per-packet one-way delay: 108.213 ms

Loss rate: 0.98%

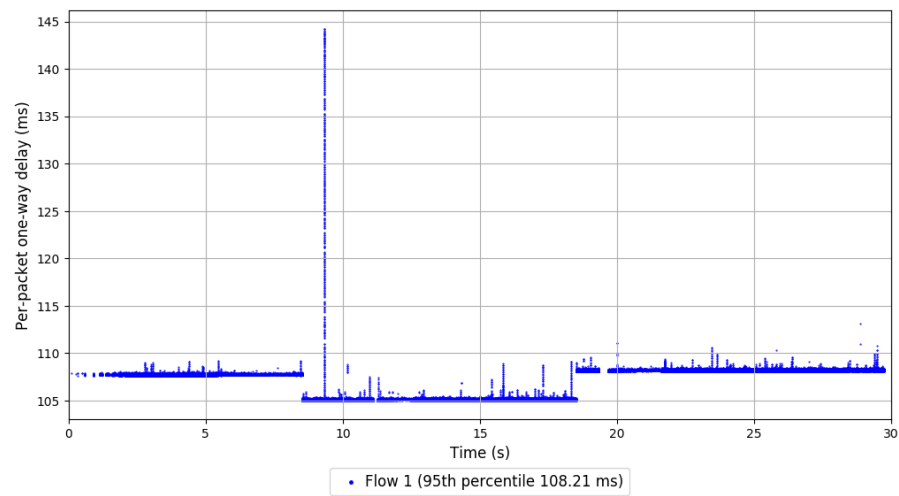
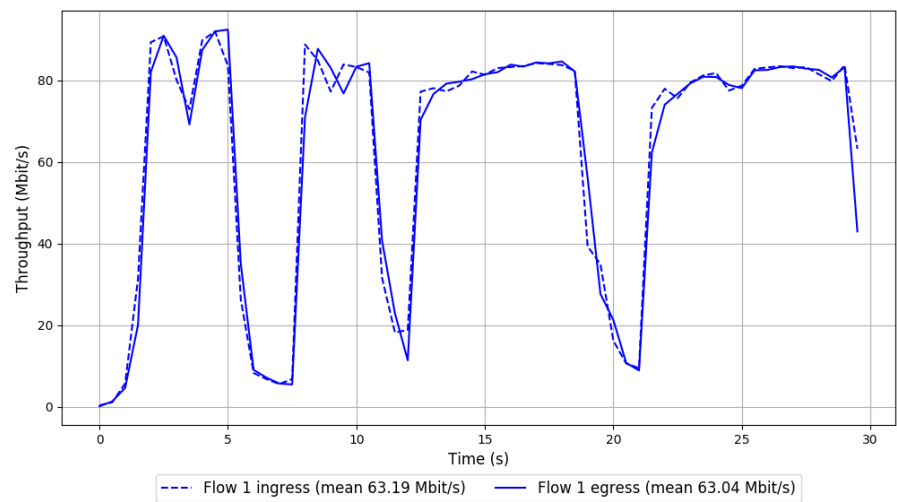
-- Flow 1:

Average throughput: 63.04 Mbit/s

95th percentile per-packet one-way delay: 108.213 ms

Loss rate: 0.98%

Run 10: Report of QUIC Cubic — Data Link

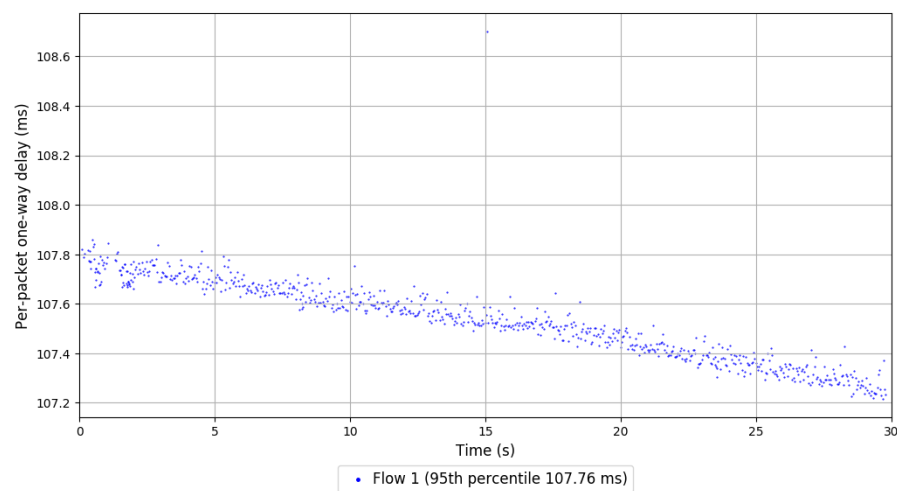
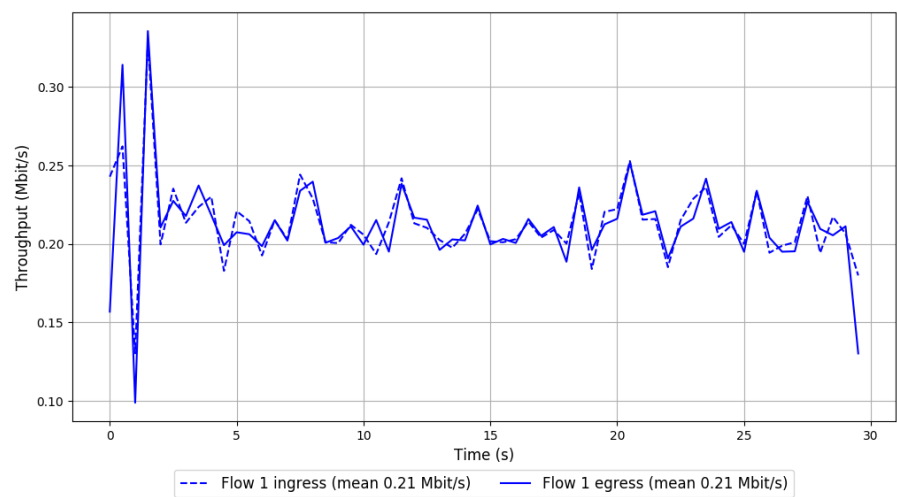


```
Run 1: Statistics of SCReAM

Start at: 2018-02-19 16:50:00
End at: 2018-02-19 16:50:30

# Below is generated by plot.py at 2018-02-19 22:30:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 107.759 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 107.759 ms
Loss rate: 0.77%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

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

End at: 2018-02-19 17:05:55

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 102.346 ms

Loss rate: 0.76%

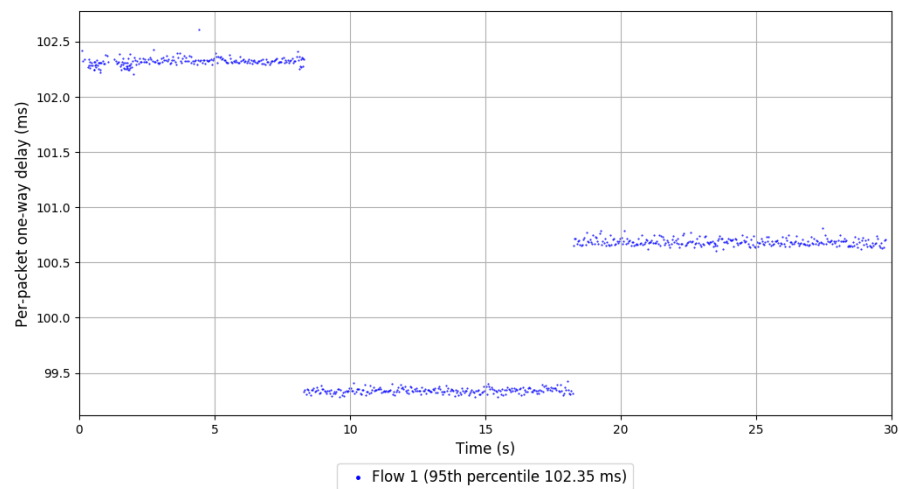
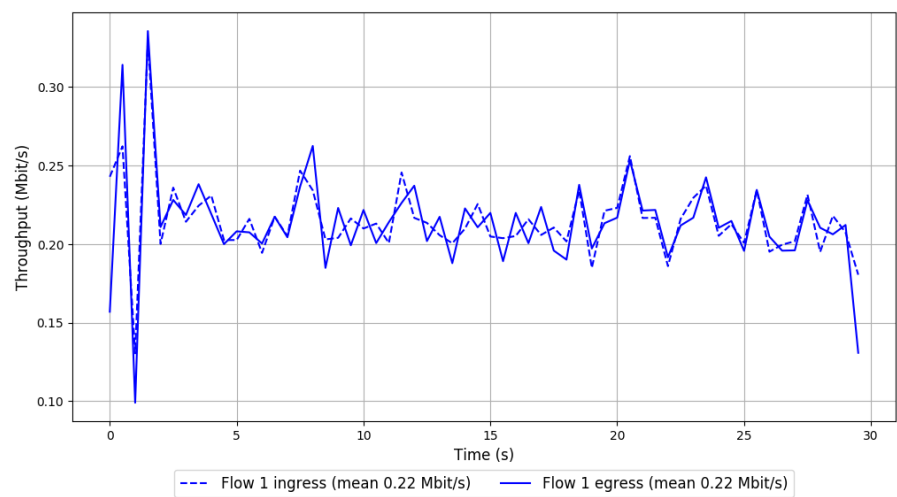
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 102.346 ms

Loss rate: 0.76%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-02-19 17:21:16

End at: 2018-02-19 17:21:46

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 93.957 ms

Loss rate: 0.76%

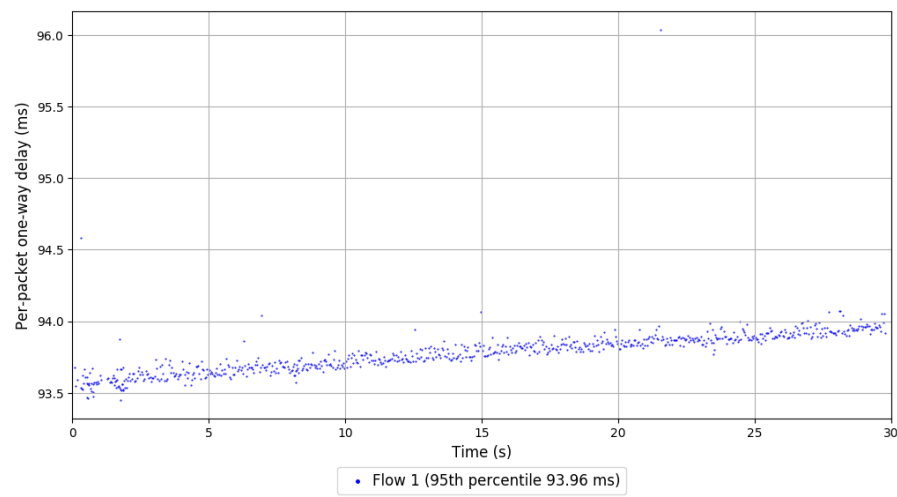
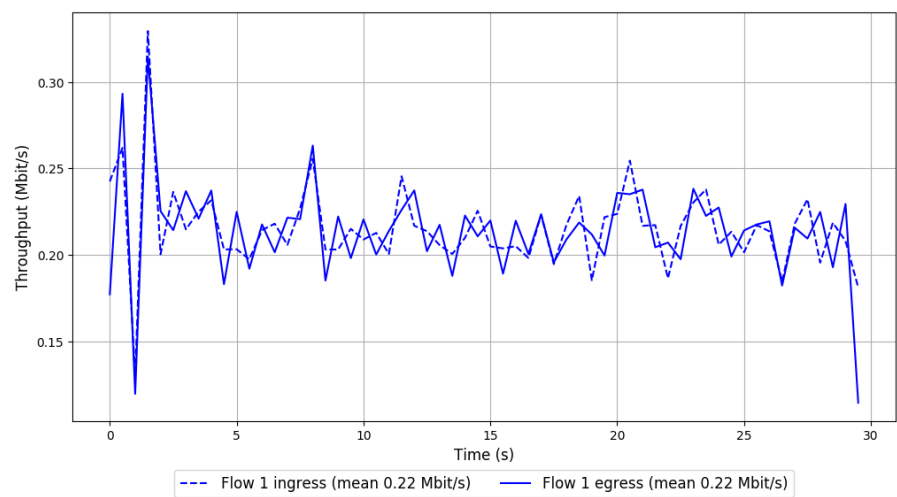
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 93.957 ms

Loss rate: 0.76%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-02-19 17:36:59

End at: 2018-02-19 17:37:29

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 93.579 ms

Loss rate: 0.76%

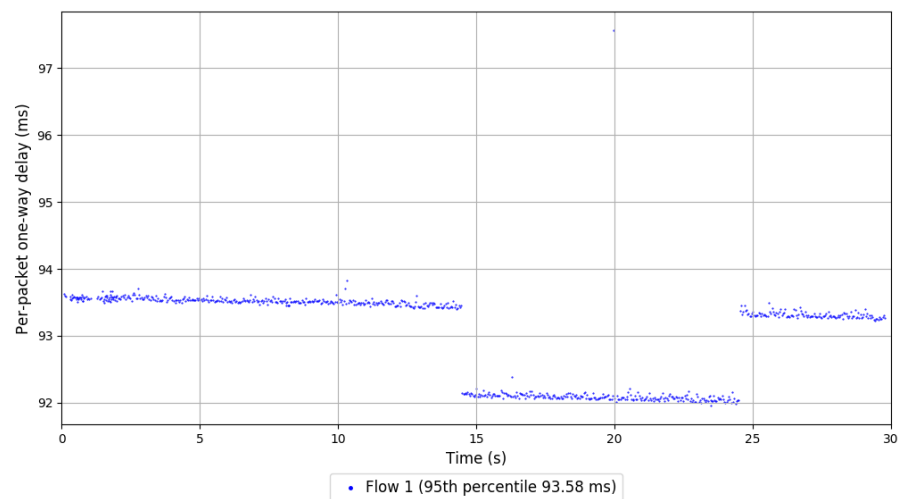
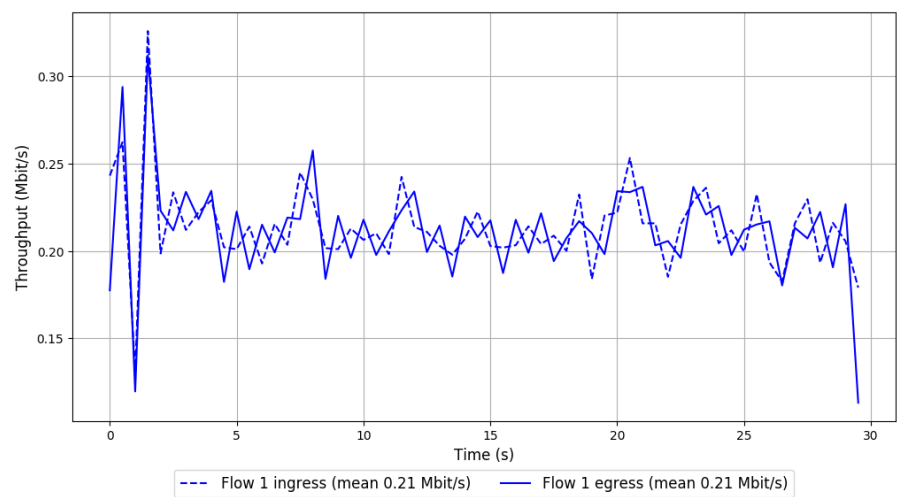
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 93.579 ms

Loss rate: 0.76%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-19 17:52:44

End at: 2018-02-19 17:53:14

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.845 ms

Loss rate: 0.76%

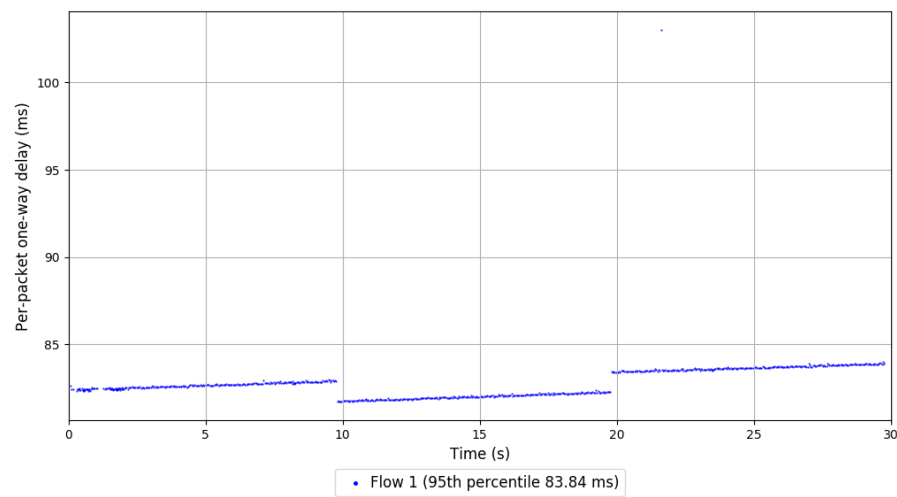
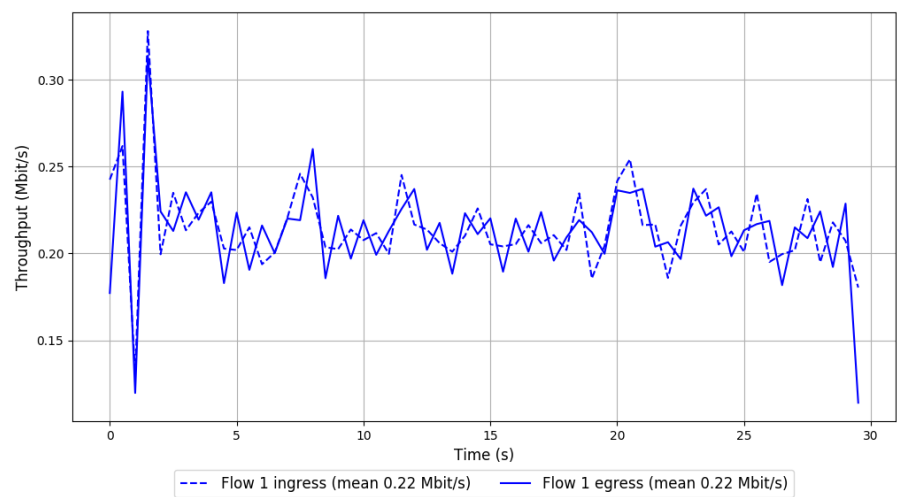
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.845 ms

Loss rate: 0.76%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-02-19 18:08:00

End at: 2018-02-19 18:08:30

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 100.453 ms

Loss rate: 0.77%

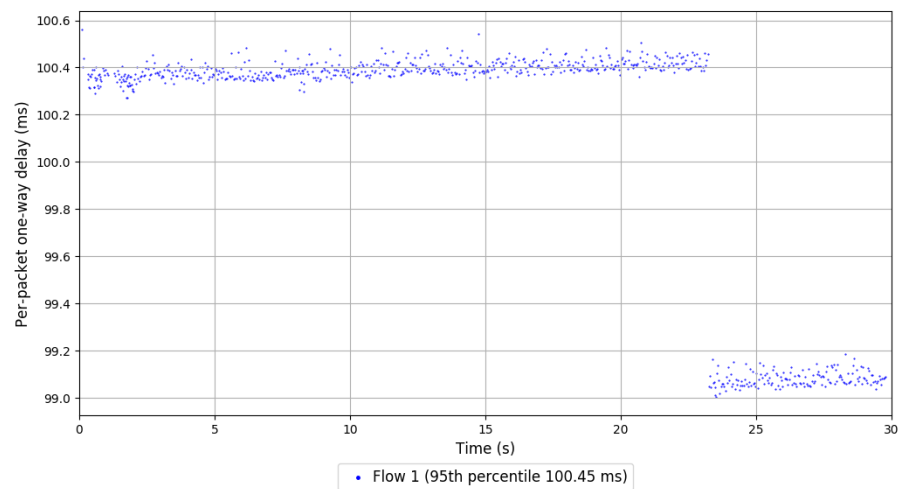
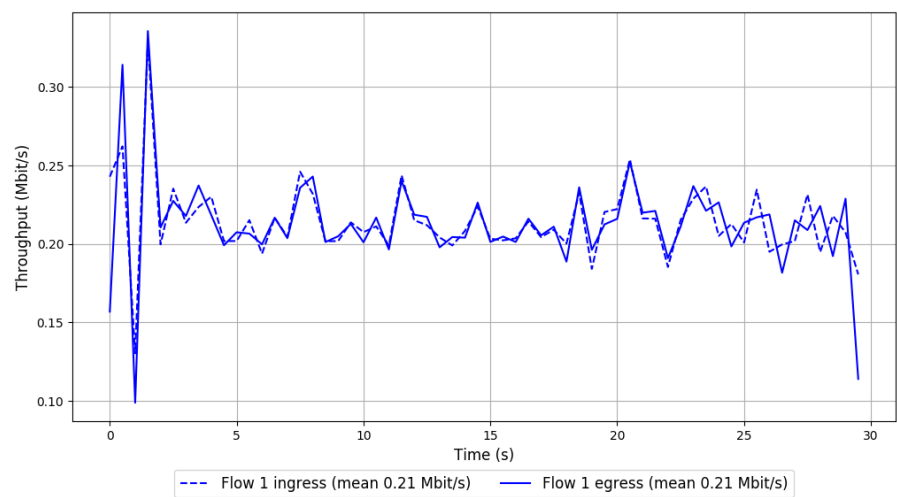
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 100.453 ms

Loss rate: 0.77%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-02-19 18:24:36

End at: 2018-02-19 18:25:06

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 98.222 ms

Loss rate: 0.77%

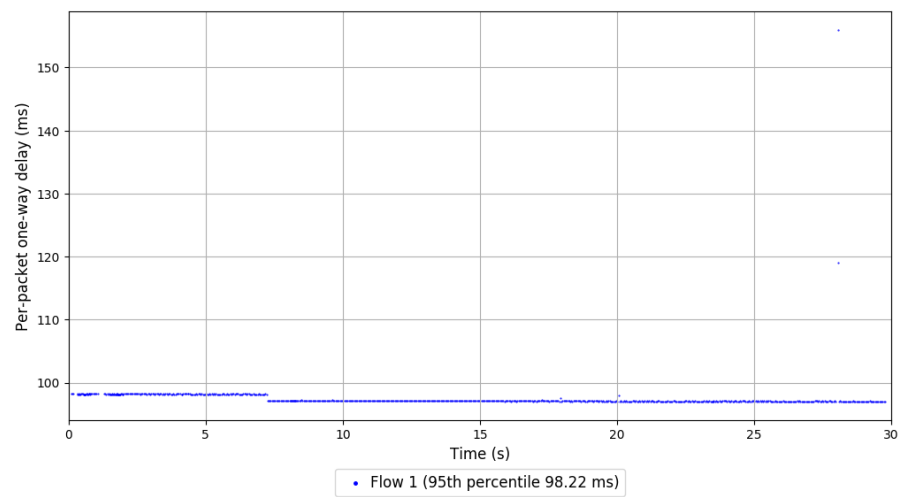
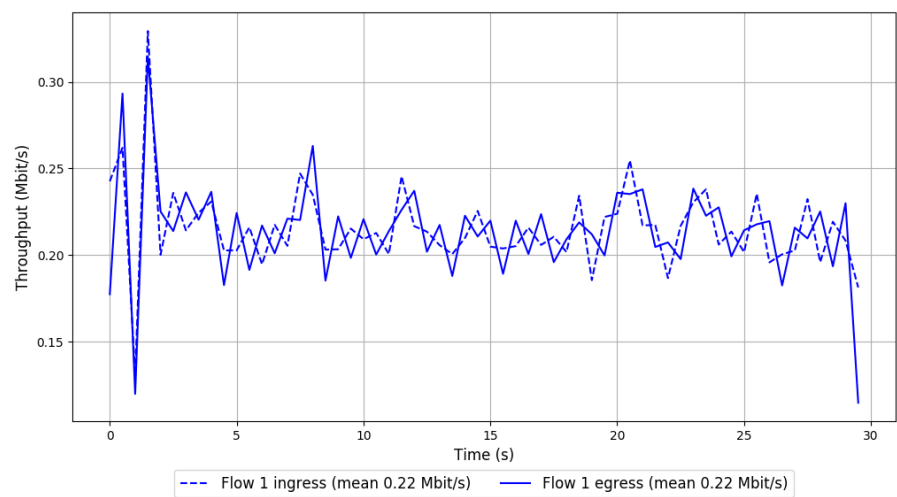
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 98.222 ms

Loss rate: 0.77%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-19 18:41:10

End at: 2018-02-19 18:41:40

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 105.865 ms

Loss rate: 0.76%

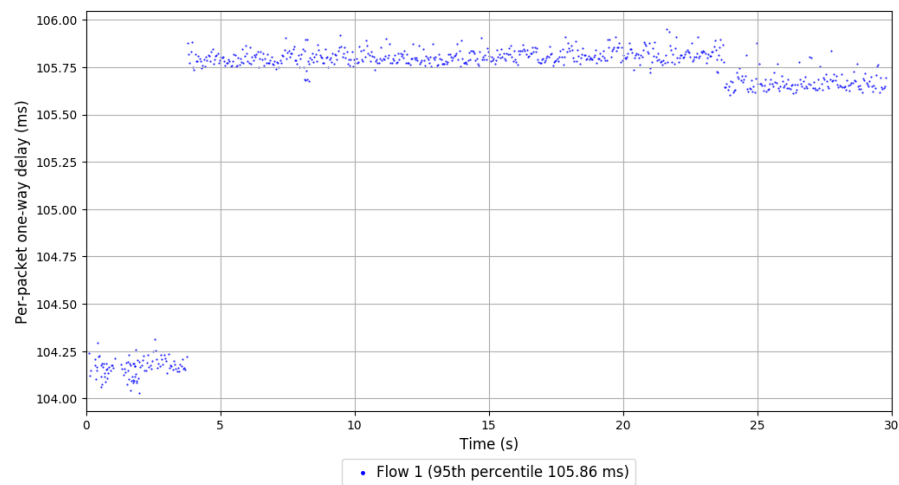
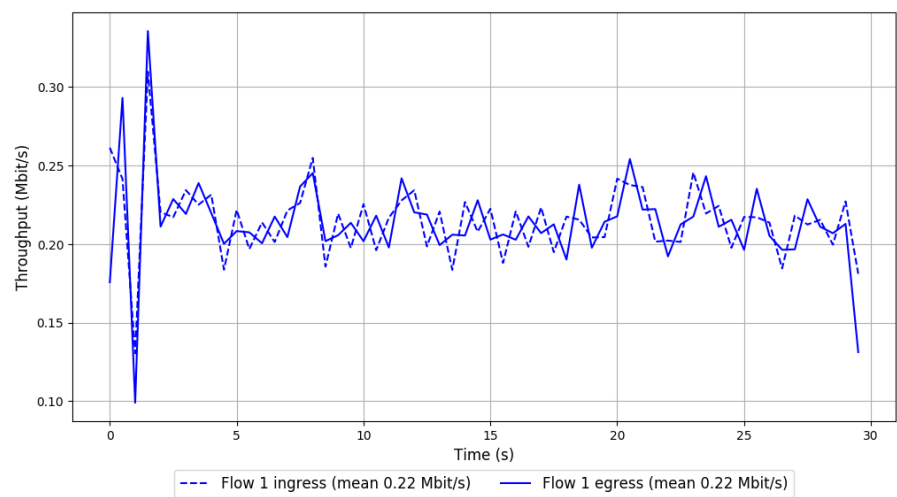
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 105.865 ms

Loss rate: 0.76%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-02-19 18:56:48

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

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 105.082 ms

Loss rate: 0.76%

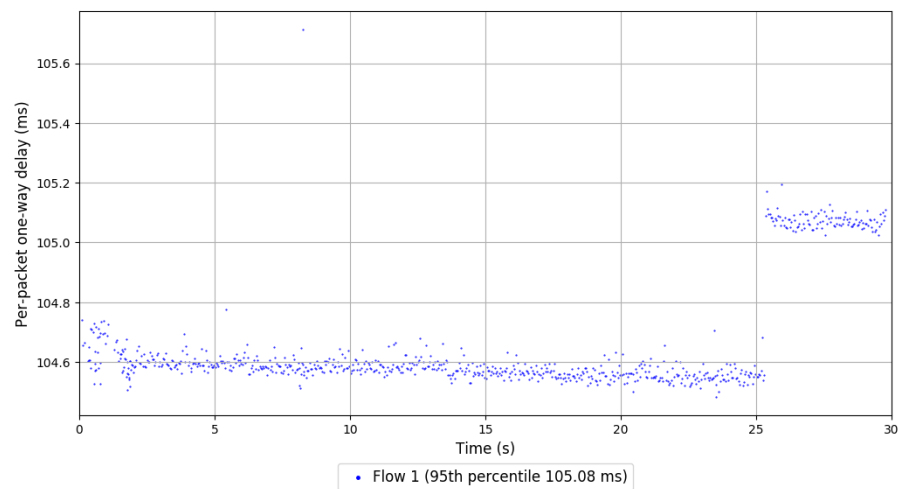
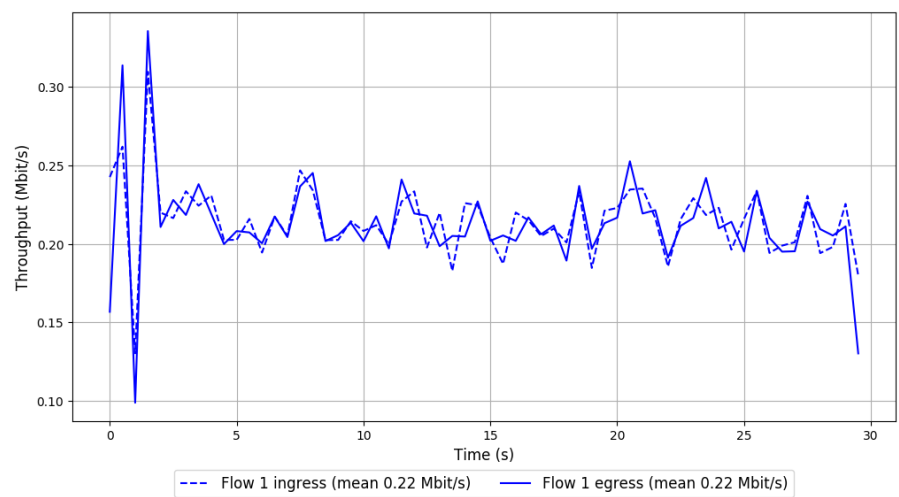
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 105.082 ms

Loss rate: 0.76%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

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

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

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 108.468 ms

Loss rate: 0.64%

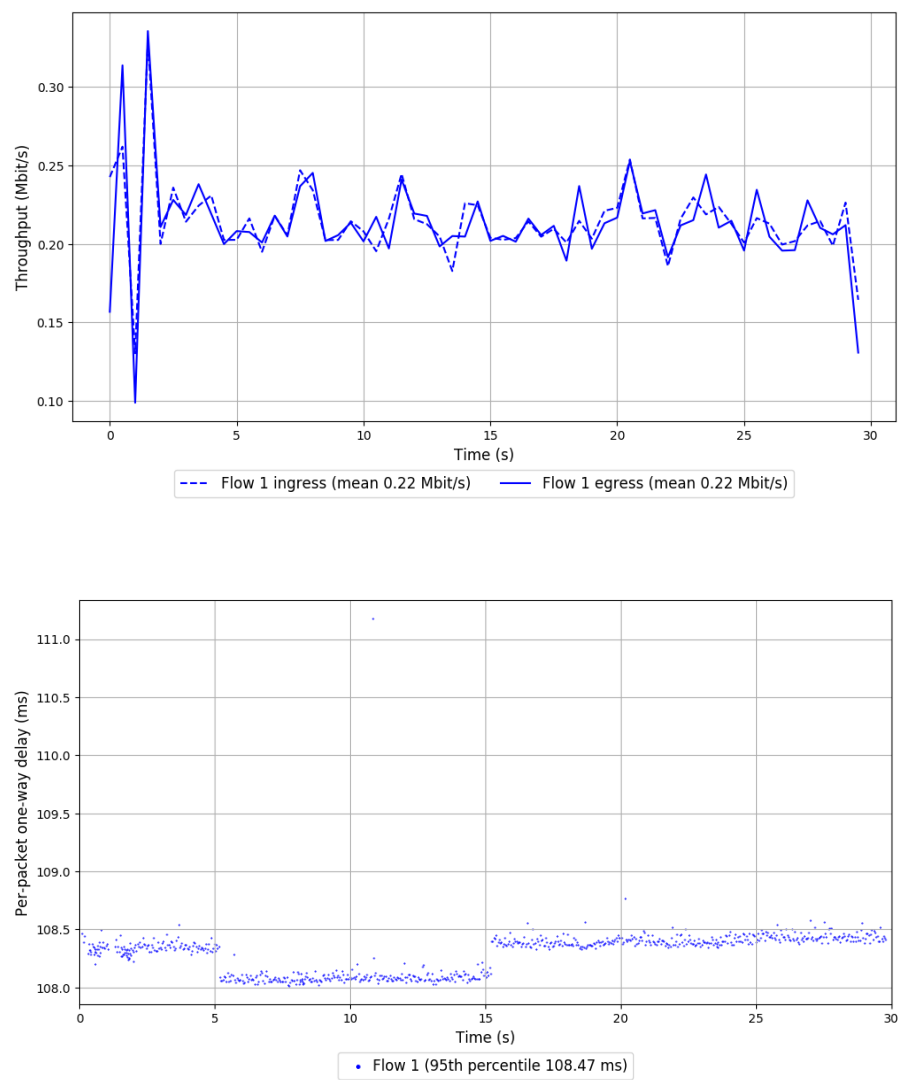
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 108.468 ms

Loss rate: 0.64%

Run 10: Report of SReAM — Data Link

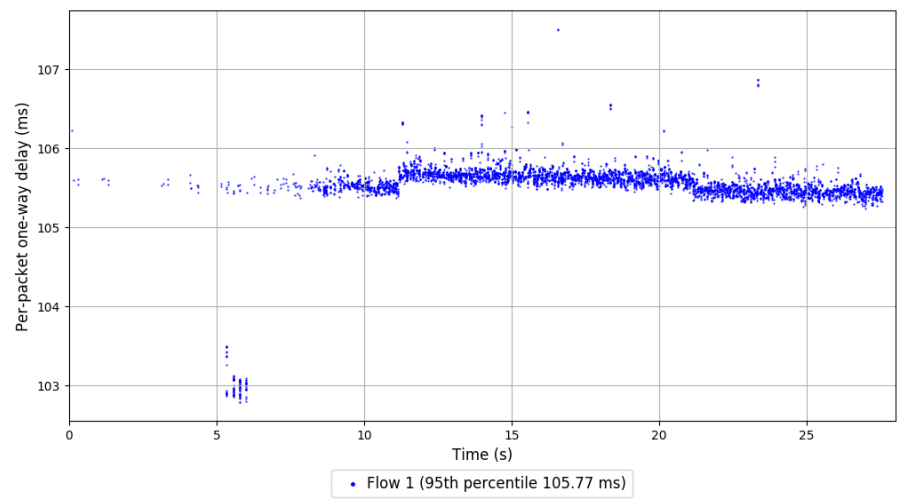
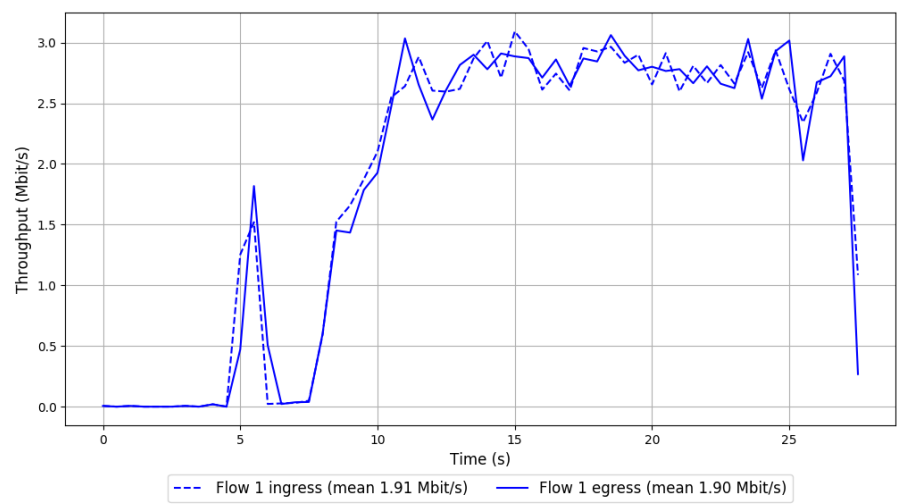


```
Run 1: Statistics of WebRTC media

Start at: 2018-02-19 16:55:20
End at: 2018-02-19 16:55:50

# Below is generated by plot.py at 2018-02-19 22:30:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.90 Mbit/s
95th percentile per-packet one-way delay: 105.767 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 1.90 Mbit/s
95th percentile per-packet one-way delay: 105.767 ms
Loss rate: 1.23%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

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

End at: 2018-02-19 17:11:32

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 98.320 ms

Loss rate: 0.88%

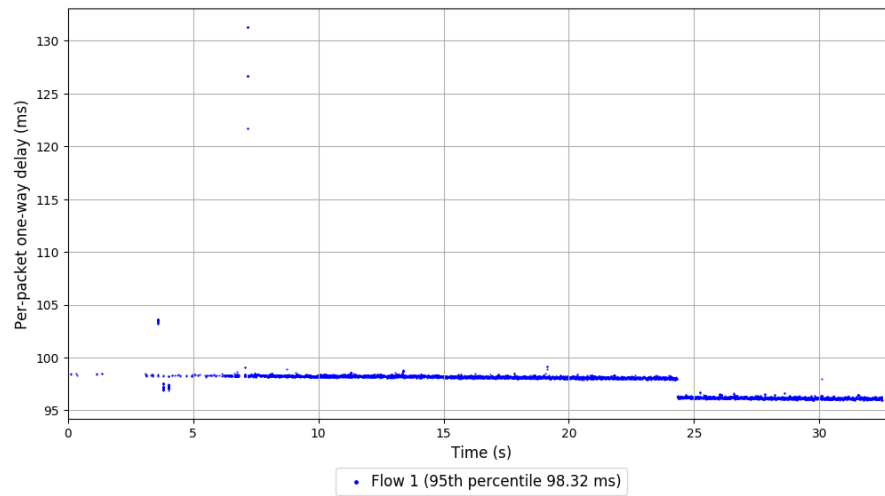
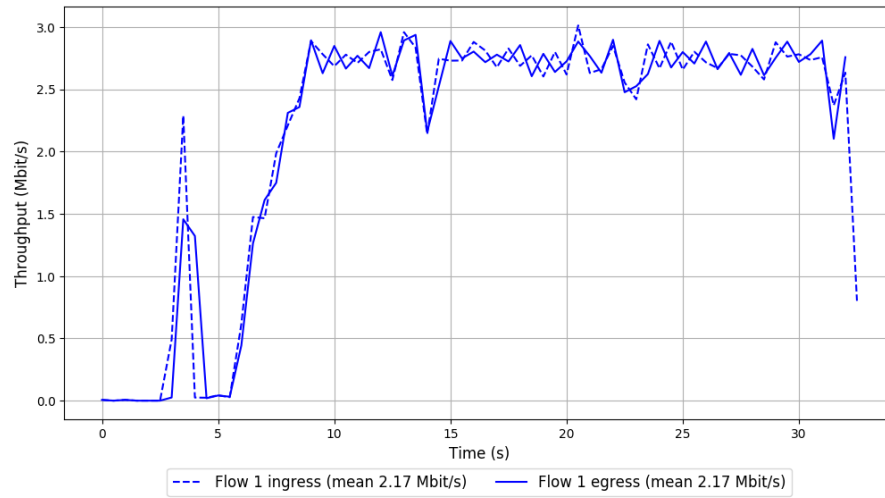
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 98.320 ms

Loss rate: 0.88%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-19 17:26:44

End at: 2018-02-19 17:27:14

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 96.785 ms

Loss rate: 0.90%

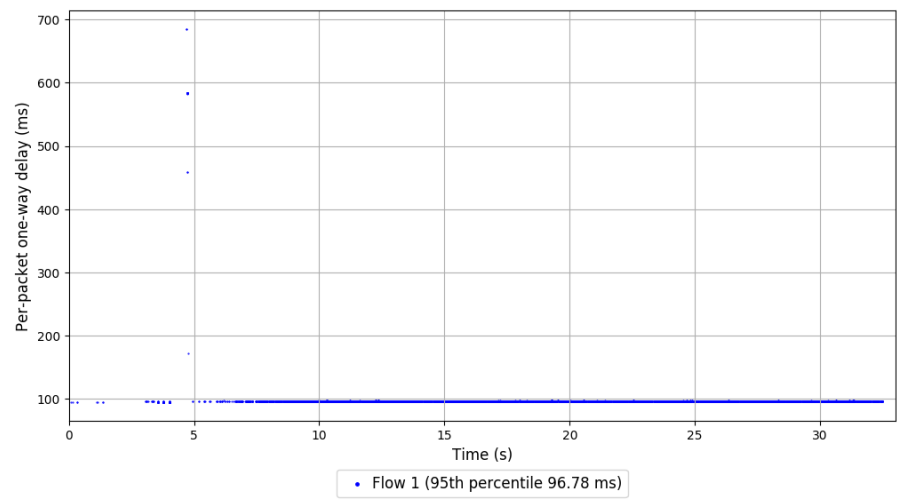
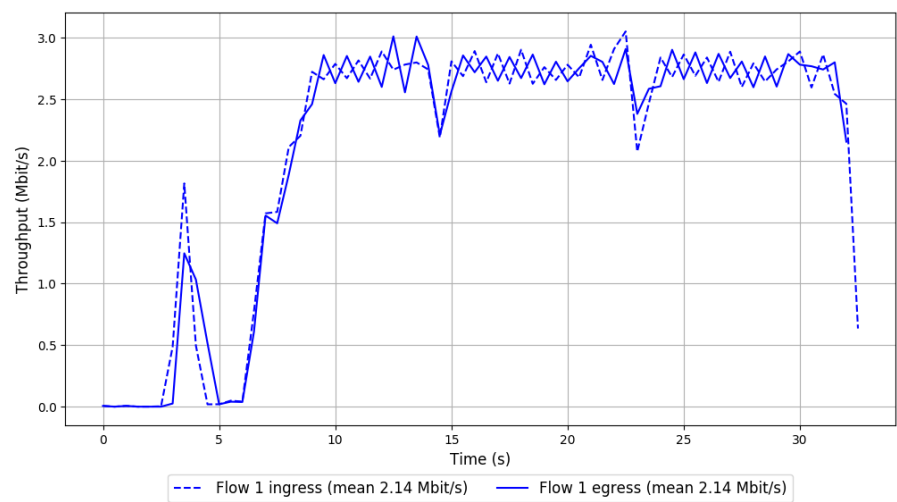
-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 96.785 ms

Loss rate: 0.90%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-19 17:42:34

End at: 2018-02-19 17:43:04

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 89.540 ms

Loss rate: 0.92%

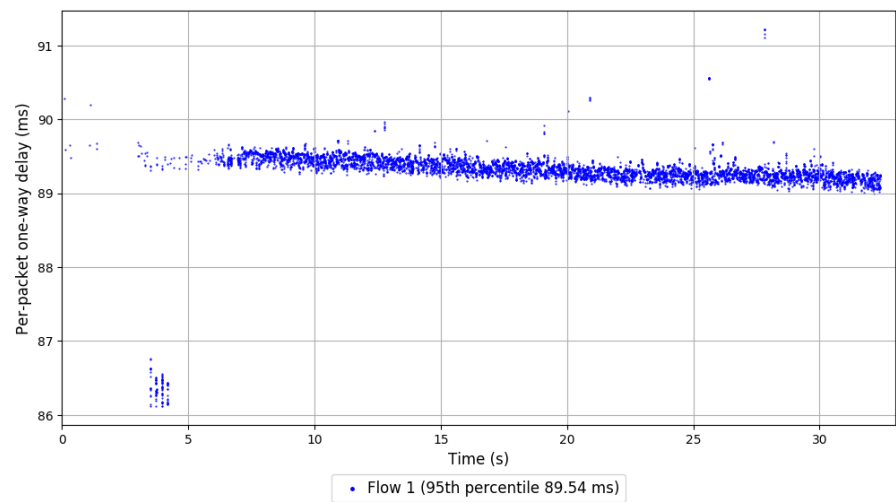
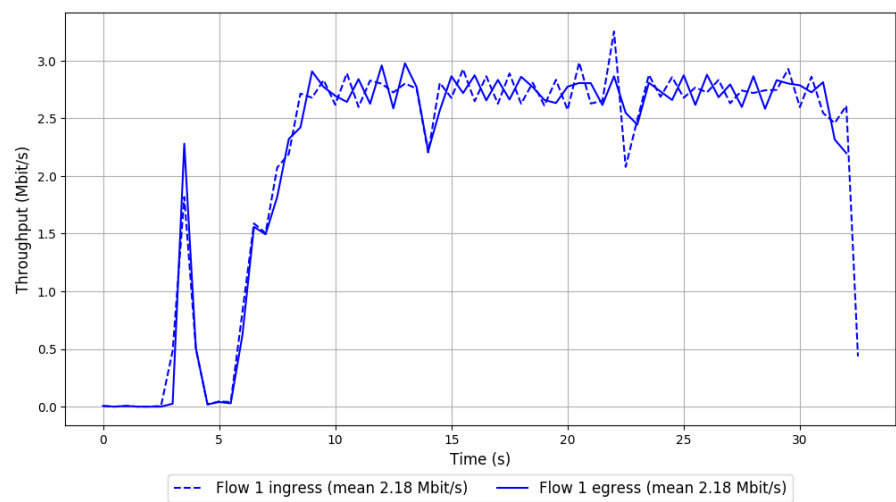
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 89.540 ms

Loss rate: 0.92%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-19 17:58:16

End at: 2018-02-19 17:58:46

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 93.143 ms

Loss rate: 0.92%

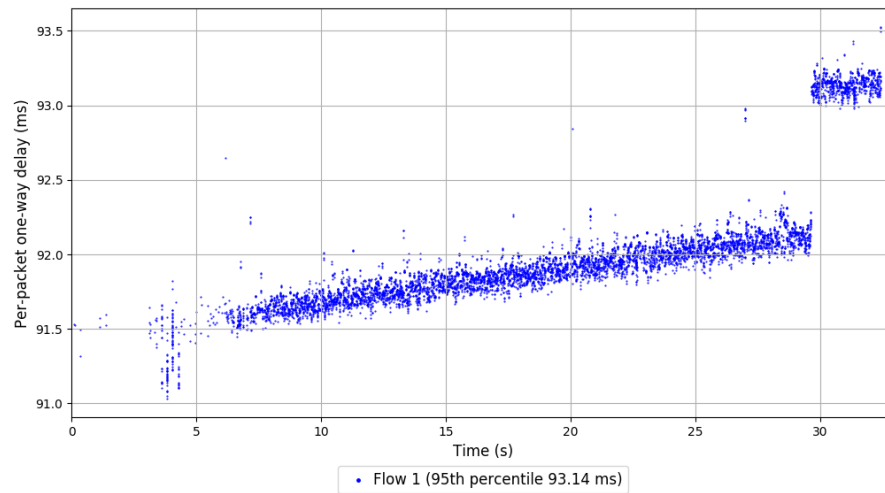
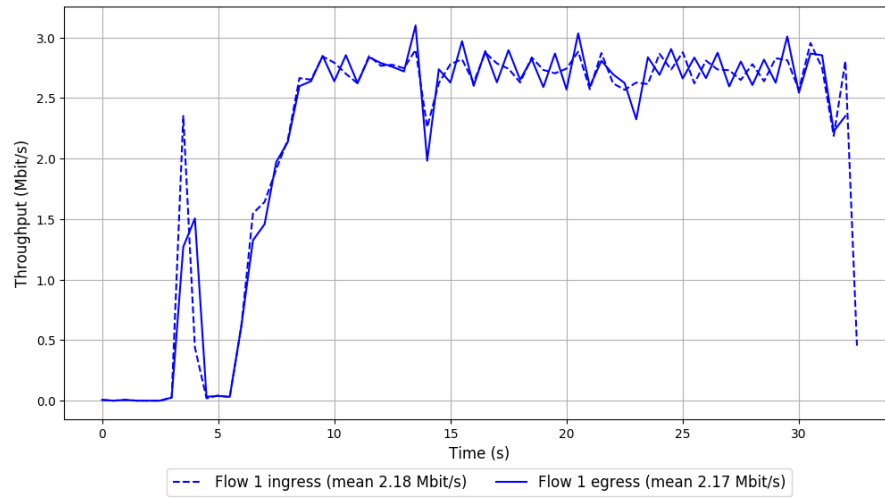
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 93.143 ms

Loss rate: 0.92%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-19 18:13:35

End at: 2018-02-19 18:14:05

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 101.008 ms

Loss rate: 0.92%

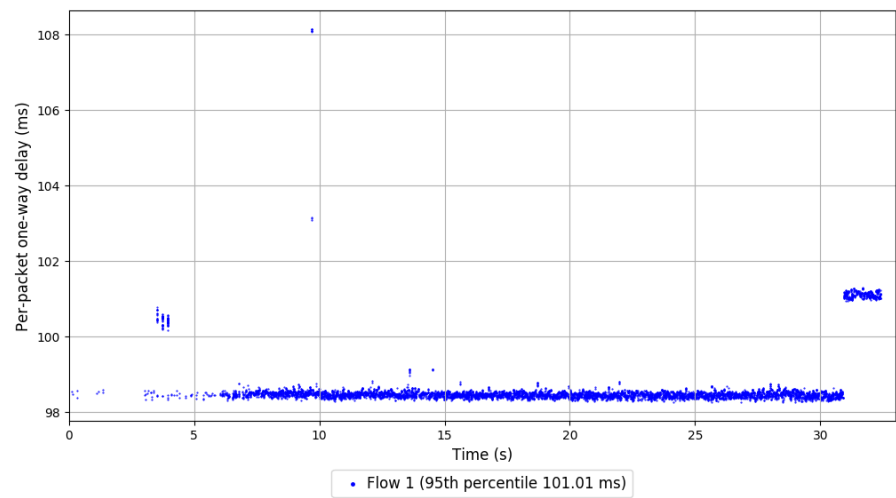
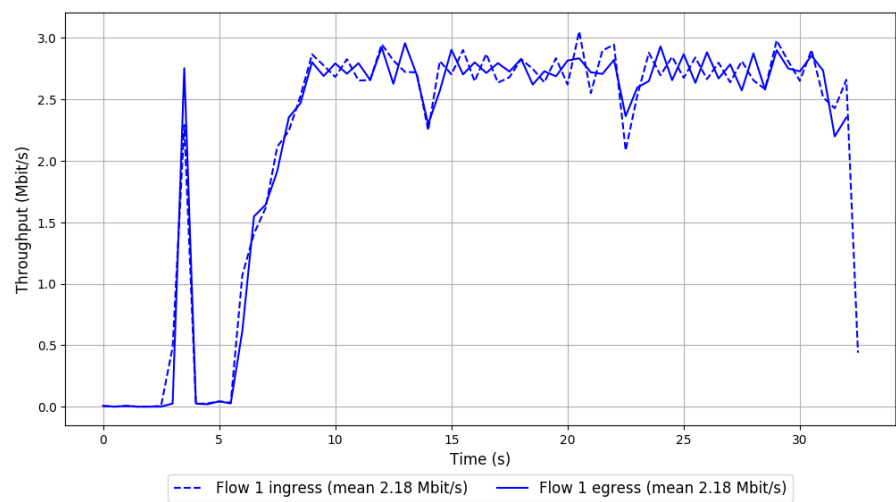
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 101.008 ms

Loss rate: 0.92%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-19 18:30:12

End at: 2018-02-19 18:30:42

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 100.958 ms

Loss rate: 0.92%

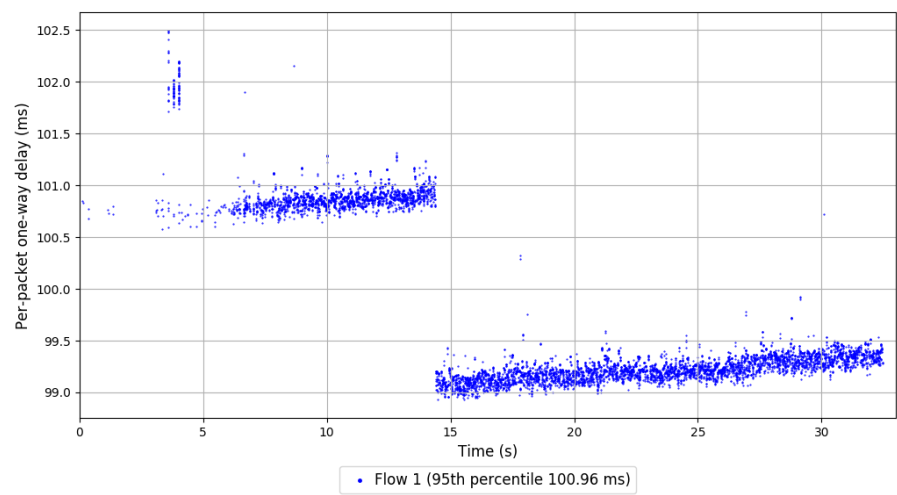
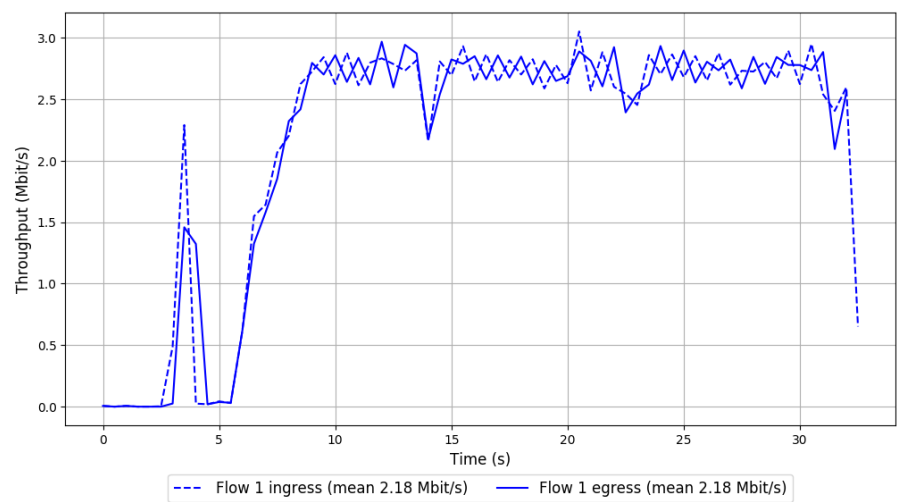
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 100.958 ms

Loss rate: 0.92%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-19 18:46:34

End at: 2018-02-19 18:47:04

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 105.892 ms

Loss rate: 0.77%

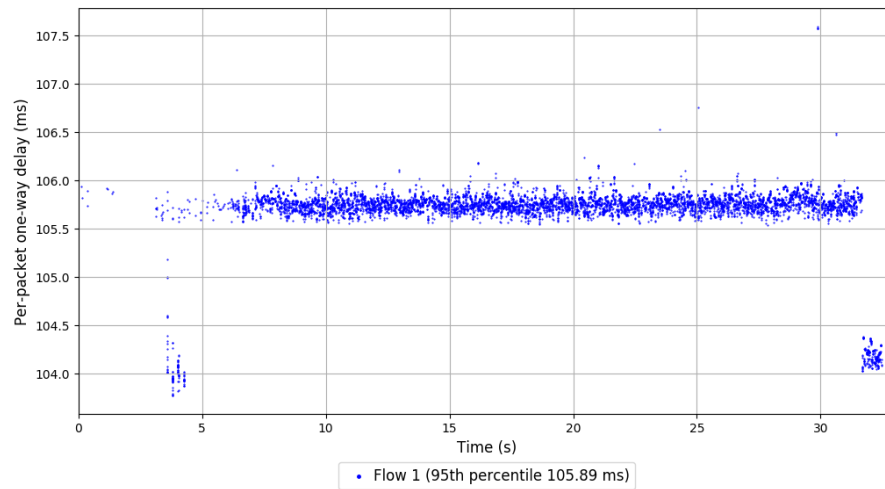
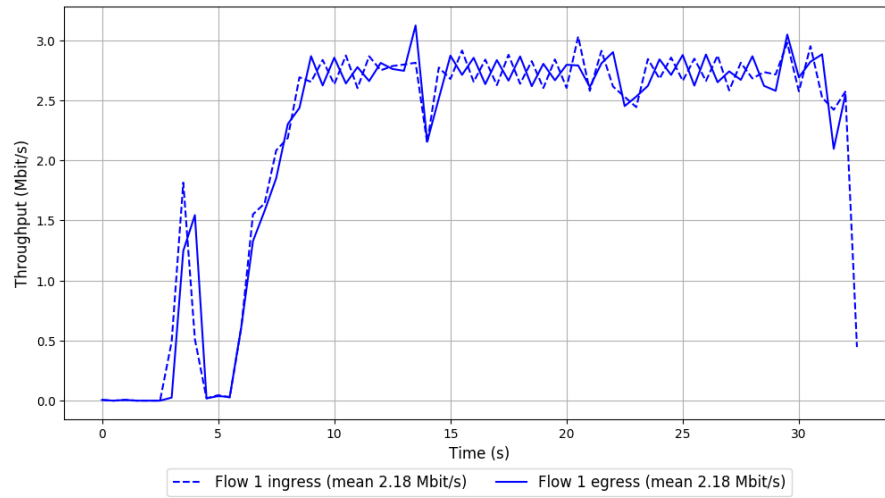
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 105.892 ms

Loss rate: 0.77%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

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

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

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 105.632 ms

Loss rate: 0.92%

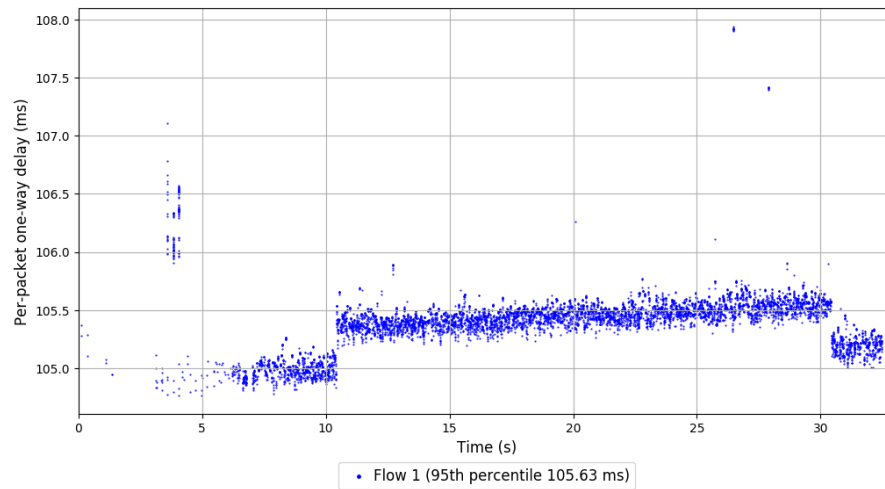
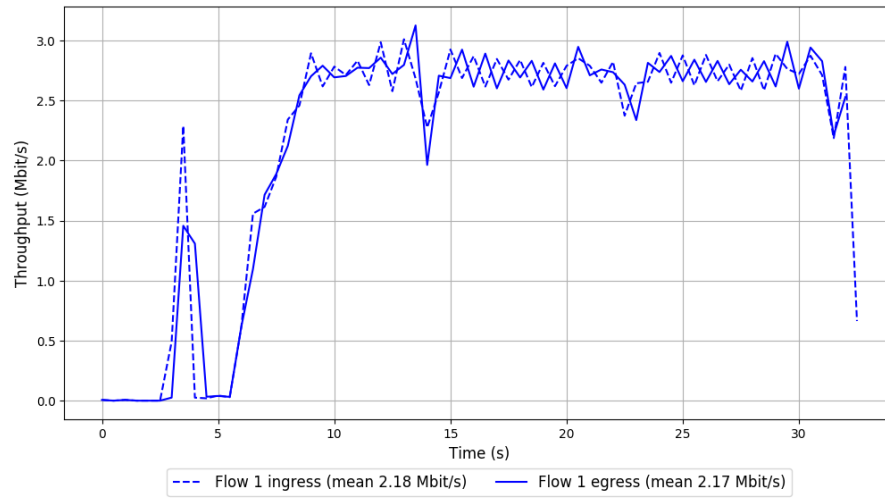
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 105.632 ms

Loss rate: 0.92%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

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

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

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 110.263 ms

Loss rate: 0.92%

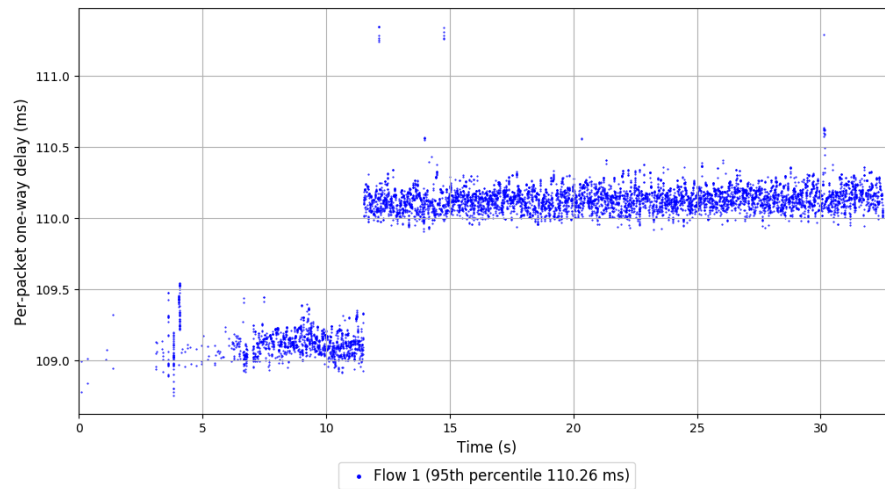
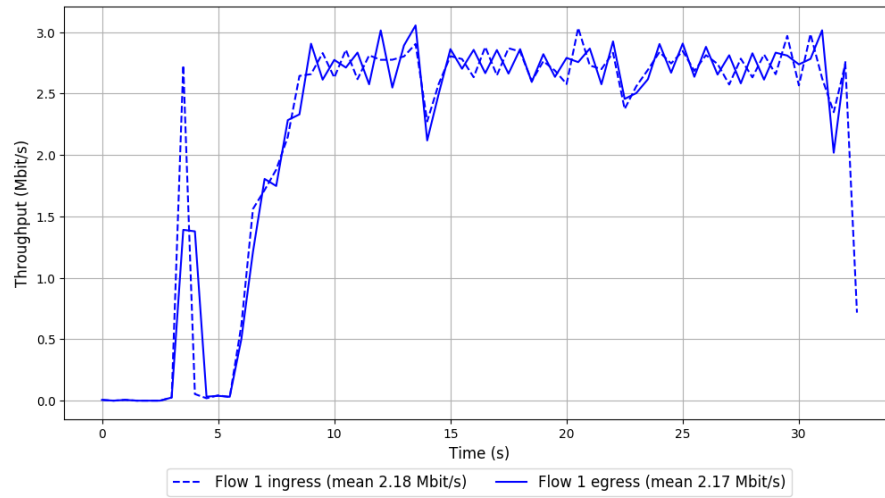
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 110.263 ms

Loss rate: 0.92%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-19 16:51:29

End at: 2018-02-19 16:51:59

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.08 Mbit/s

95th percentile per-packet one-way delay: 106.076 ms

Loss rate: 1.01%

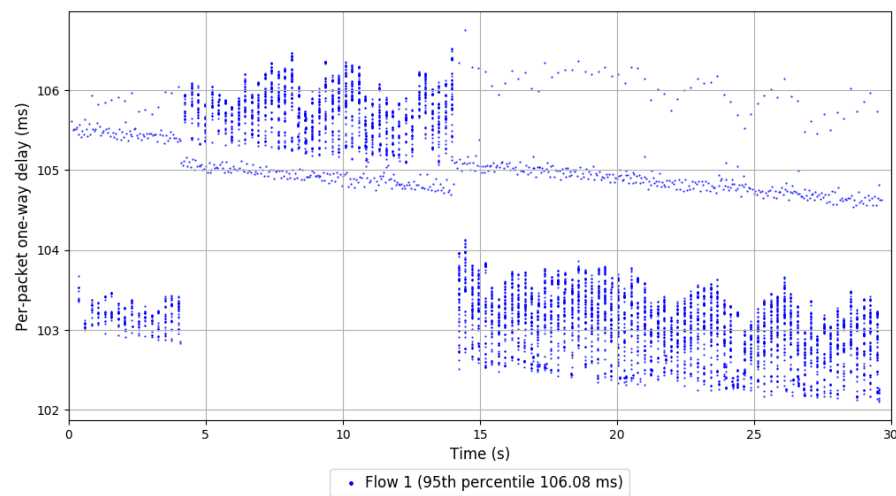
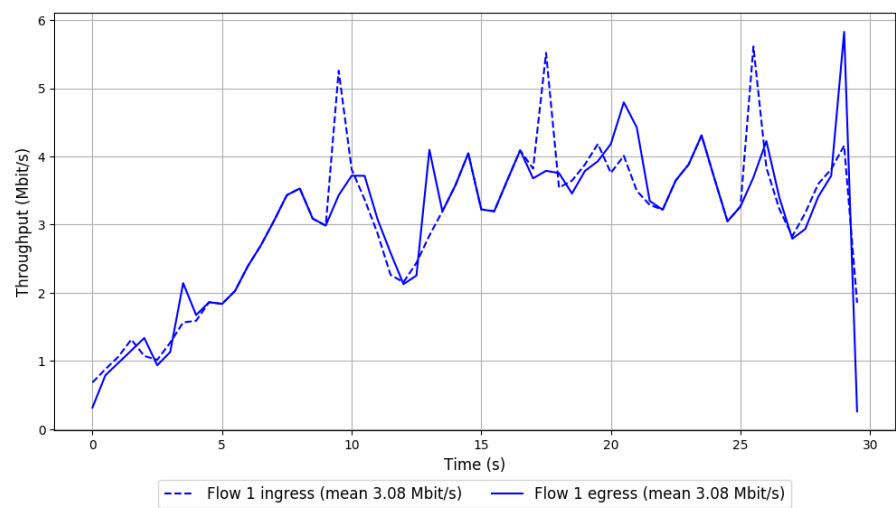
-- Flow 1:

Average throughput: 3.08 Mbit/s

95th percentile per-packet one-way delay: 106.076 ms

Loss rate: 1.01%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-19 17:06:54

End at: 2018-02-19 17:07:24

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.49 Mbit/s

95th percentile per-packet one-way delay: 102.283 ms

Loss rate: 1.44%

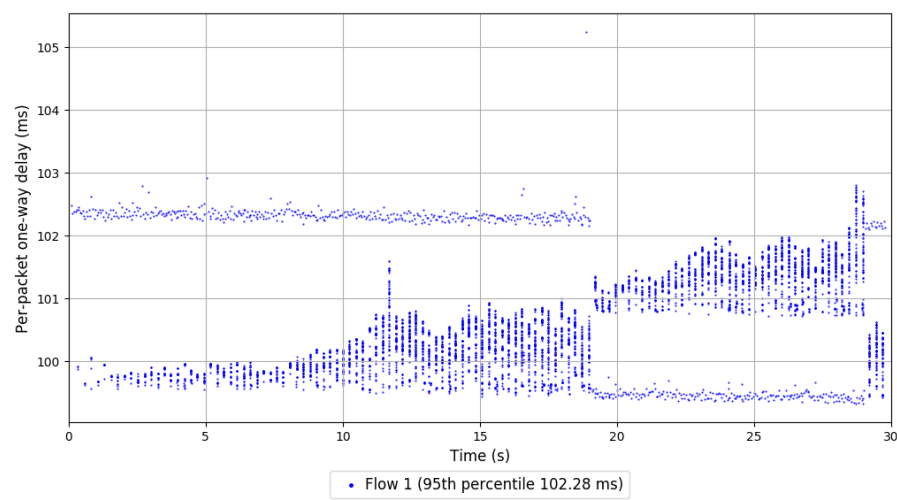
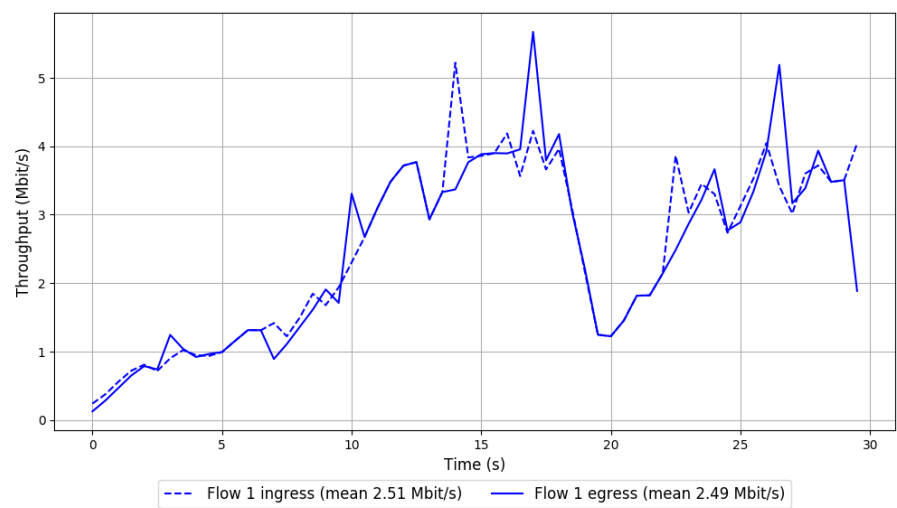
-- Flow 1:

Average throughput: 2.49 Mbit/s

95th percentile per-packet one-way delay: 102.283 ms

Loss rate: 1.44%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-19 17:22:46

End at: 2018-02-19 17:23:16

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 96.382 ms

Loss rate: 1.41%

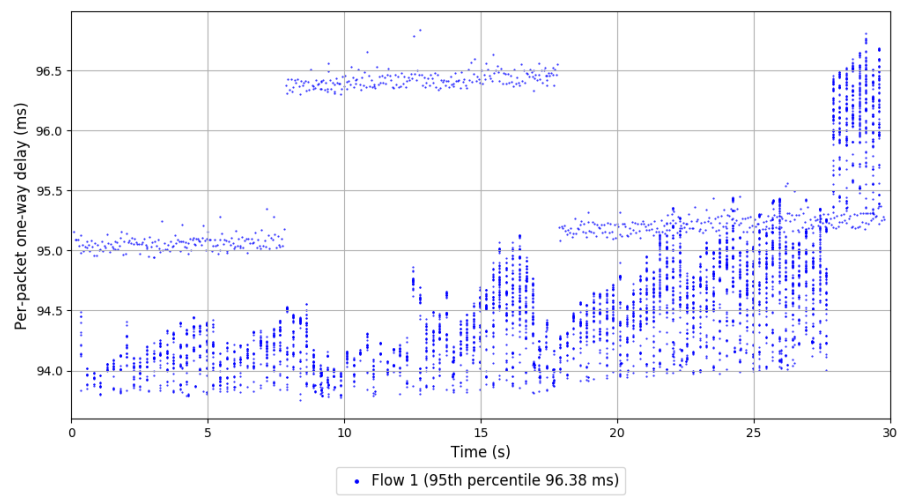
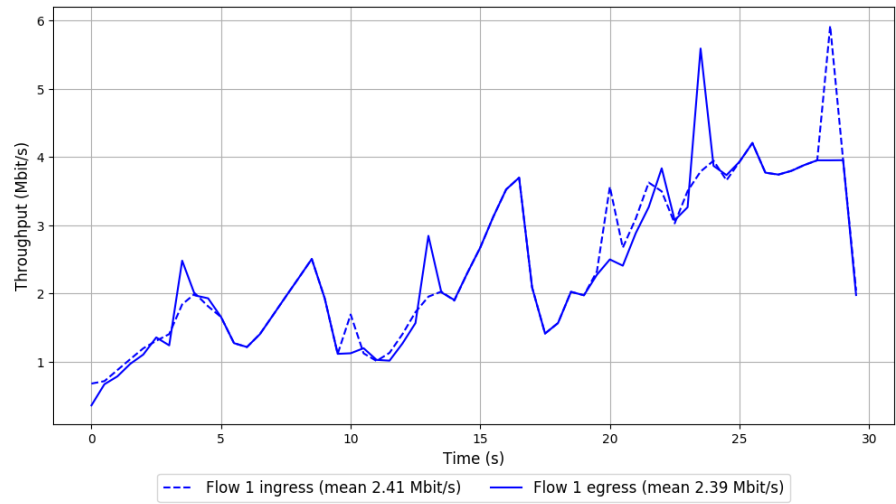
-- Flow 1:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 96.382 ms

Loss rate: 1.41%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-19 17:38:29

End at: 2018-02-19 17:38:59

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.05 Mbit/s

95th percentile per-packet one-way delay: 90.884 ms

Loss rate: 0.93%

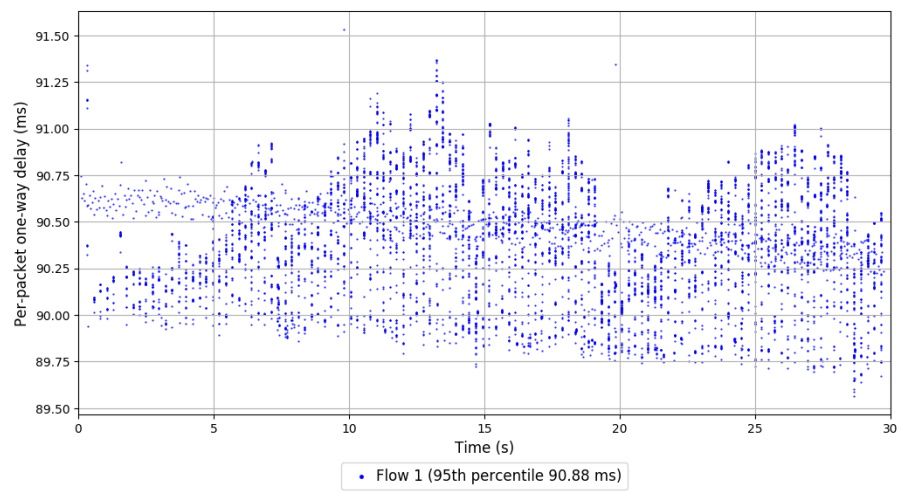
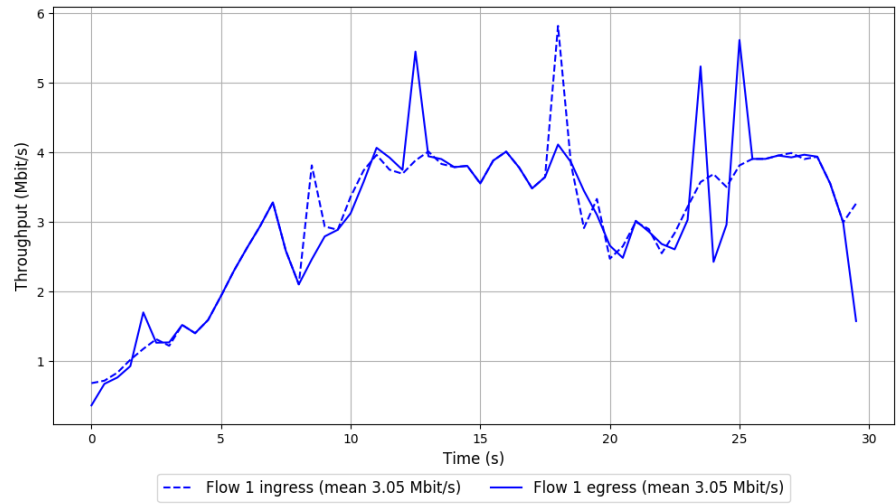
-- Flow 1:

Average throughput: 3.05 Mbit/s

95th percentile per-packet one-way delay: 90.884 ms

Loss rate: 0.93%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-19 17:54:12

End at: 2018-02-19 17:54:42

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 87.746 ms

Loss rate: 0.99%

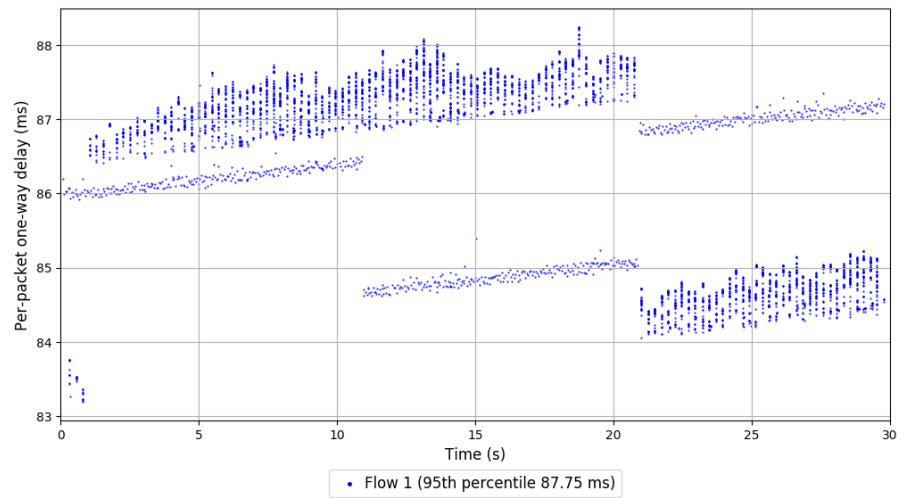
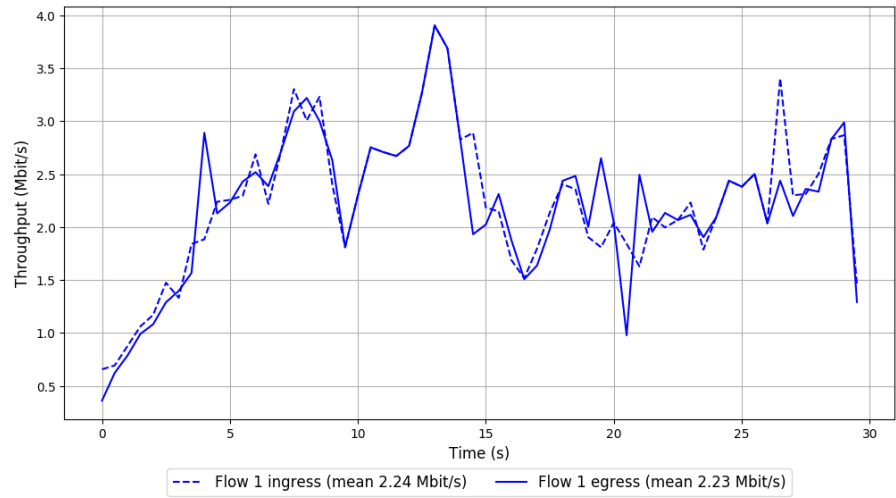
-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 87.746 ms

Loss rate: 0.99%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

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

End at: 2018-02-19 18:10:07

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.59 Mbit/s

95th percentile per-packet one-way delay: 101.906 ms

Loss rate: 0.70%

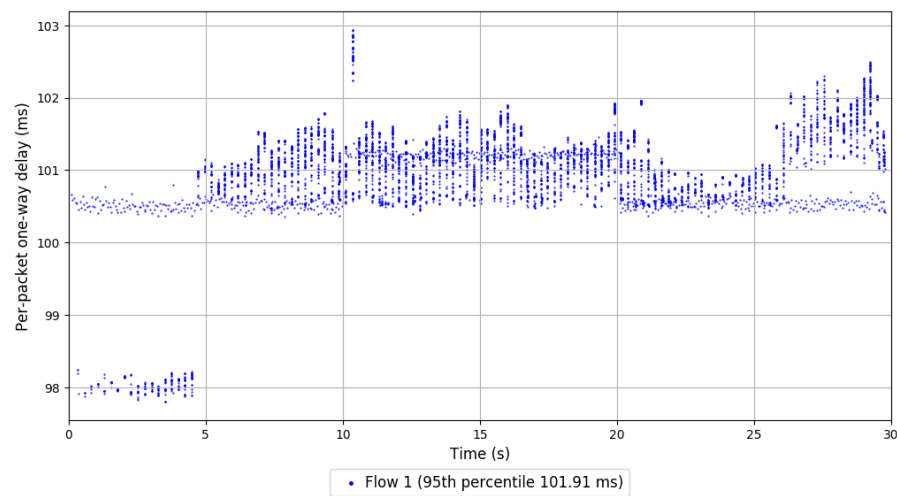
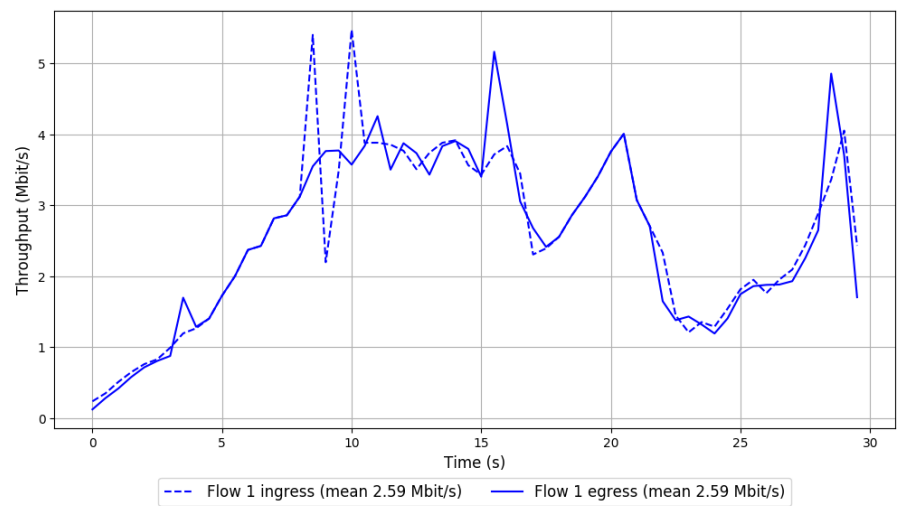
-- Flow 1:

Average throughput: 2.59 Mbit/s

95th percentile per-packet one-way delay: 101.906 ms

Loss rate: 0.70%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-19 18:26:06

End at: 2018-02-19 18:26:36

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 97.799 ms

Loss rate: 0.32%

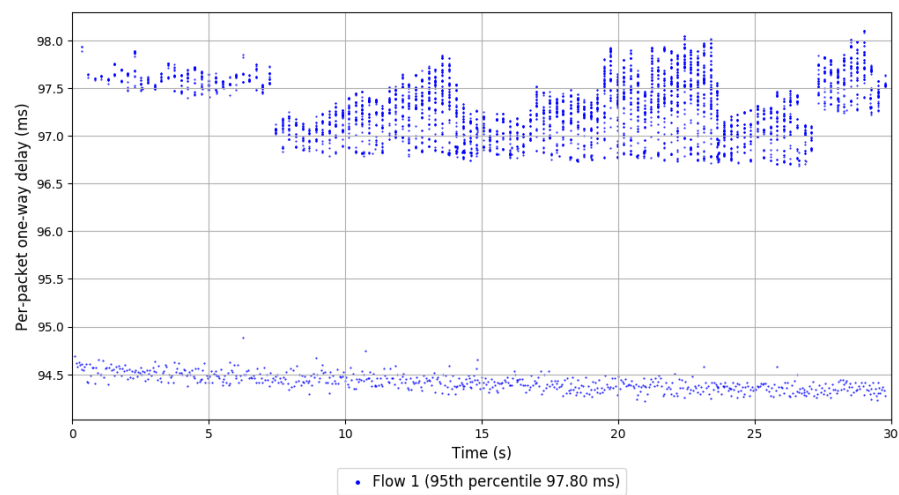
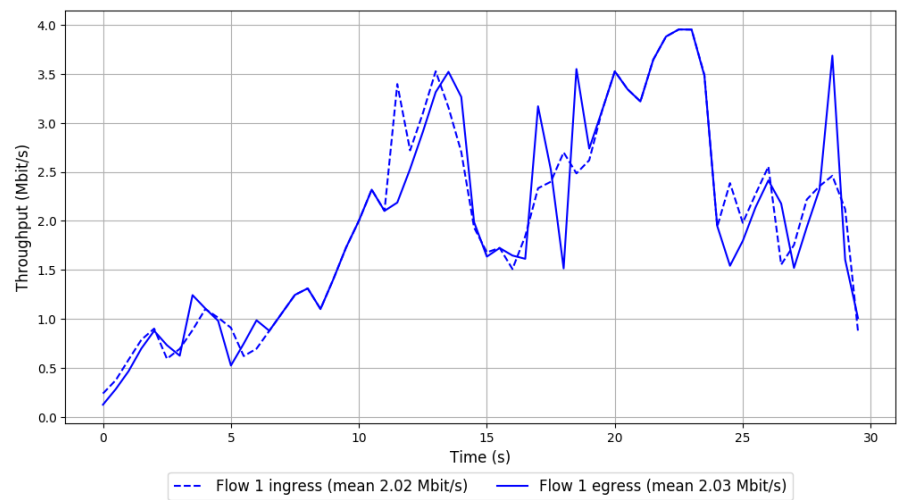
-- Flow 1:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 97.799 ms

Loss rate: 0.32%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-19 18:42:37

End at: 2018-02-19 18:43:07

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.82 Mbit/s

95th percentile per-packet one-way delay: 107.618 ms

Loss rate: 1.06%

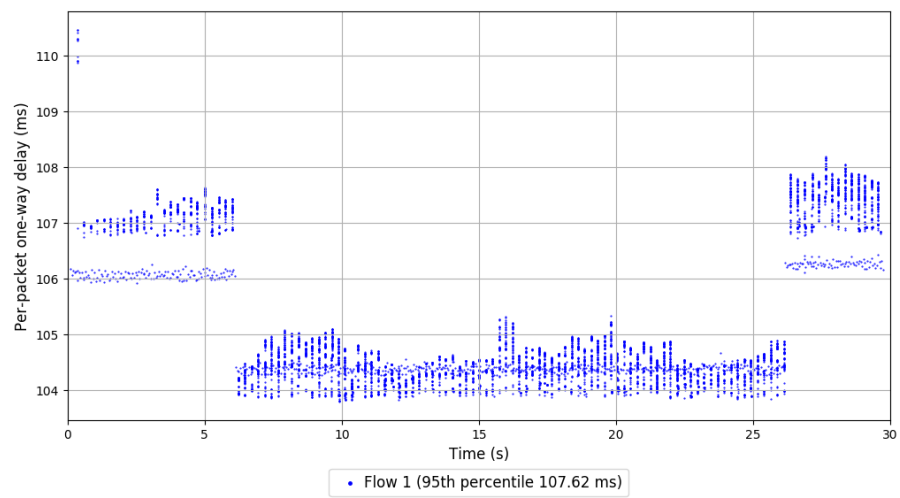
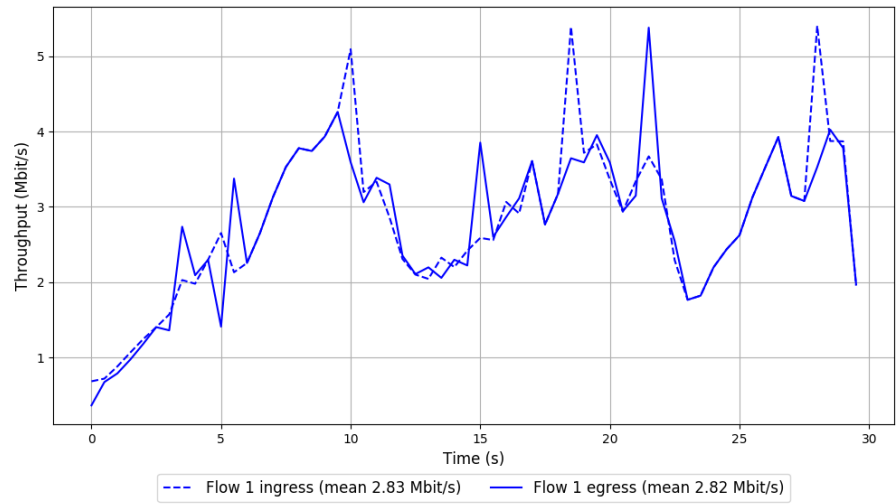
-- Flow 1:

Average throughput: 2.82 Mbit/s

95th percentile per-packet one-way delay: 107.618 ms

Loss rate: 1.06%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-19 18:58:17

End at: 2018-02-19 18:58:48

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.94 Mbit/s

95th percentile per-packet one-way delay: 106.402 ms

Loss rate: 1.02%

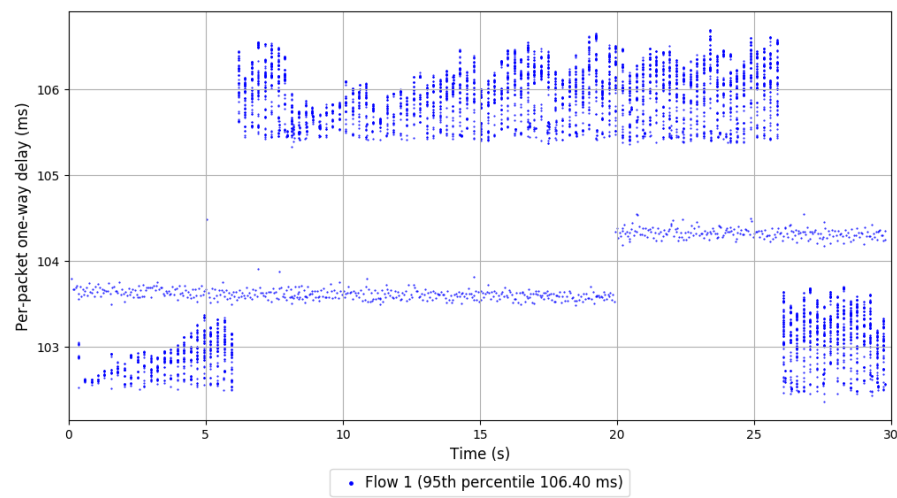
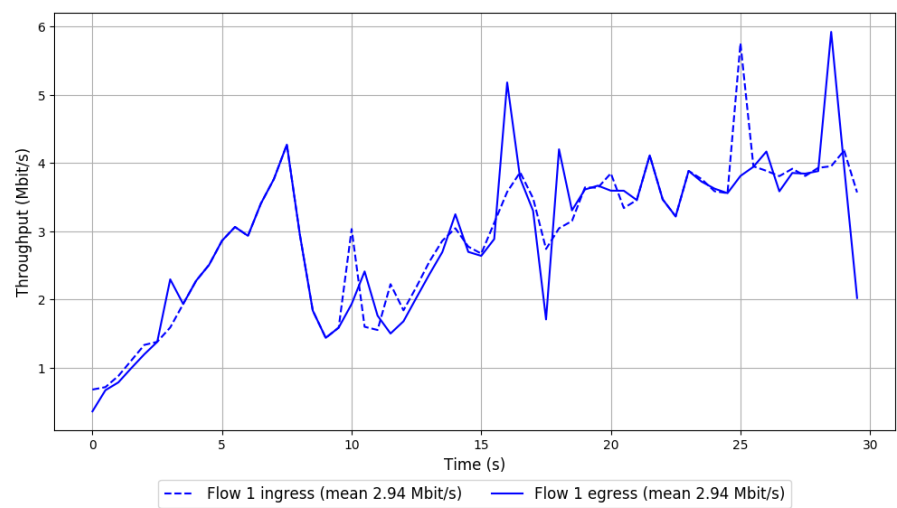
-- Flow 1:

Average throughput: 2.94 Mbit/s

95th percentile per-packet one-way delay: 106.402 ms

Loss rate: 1.02%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

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

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

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.25 Mbit/s

95th percentile per-packet one-way delay: 109.350 ms

Loss rate: 0.84%

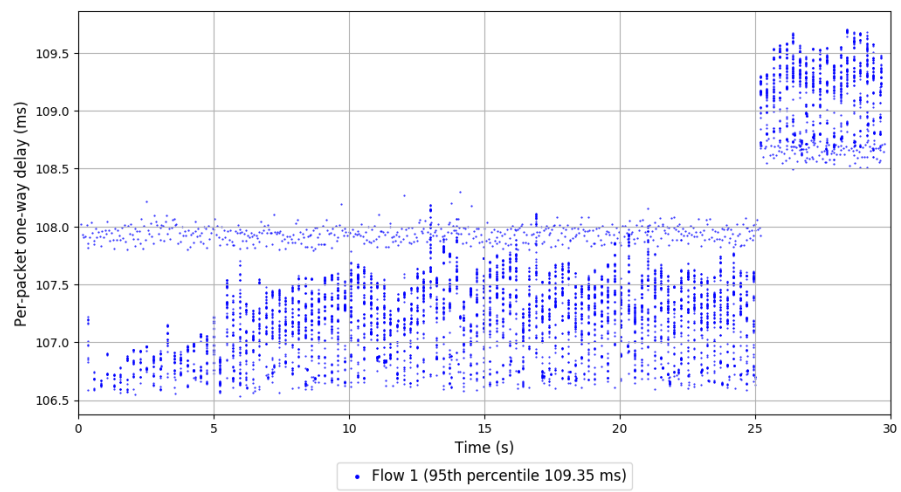
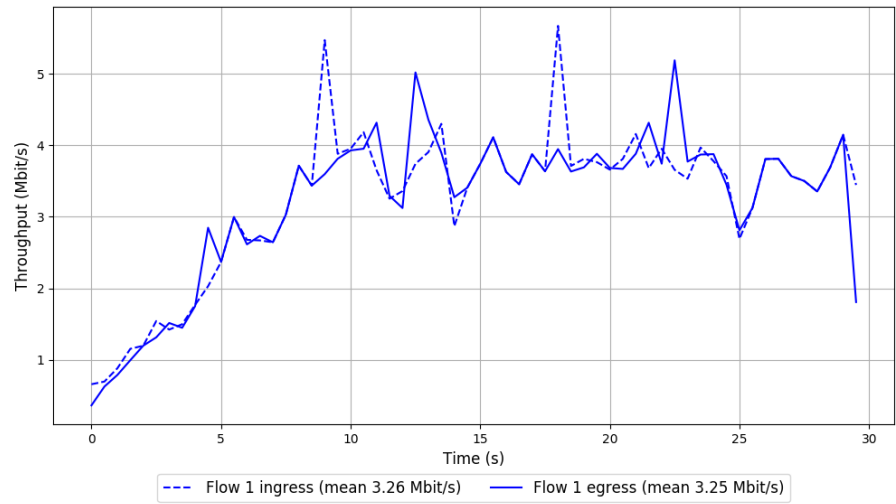
-- Flow 1:

Average throughput: 3.25 Mbit/s

95th percentile per-packet one-way delay: 109.350 ms

Loss rate: 0.84%

Run 10: Report of Sprout — Data Link

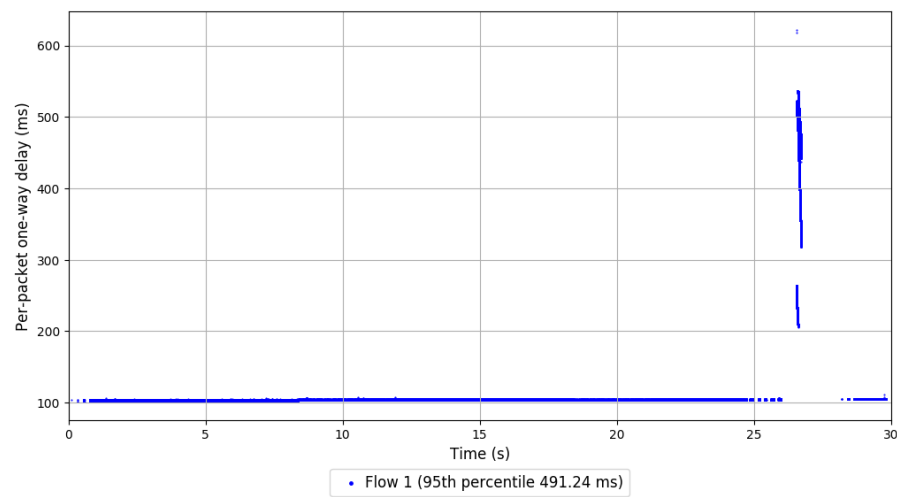
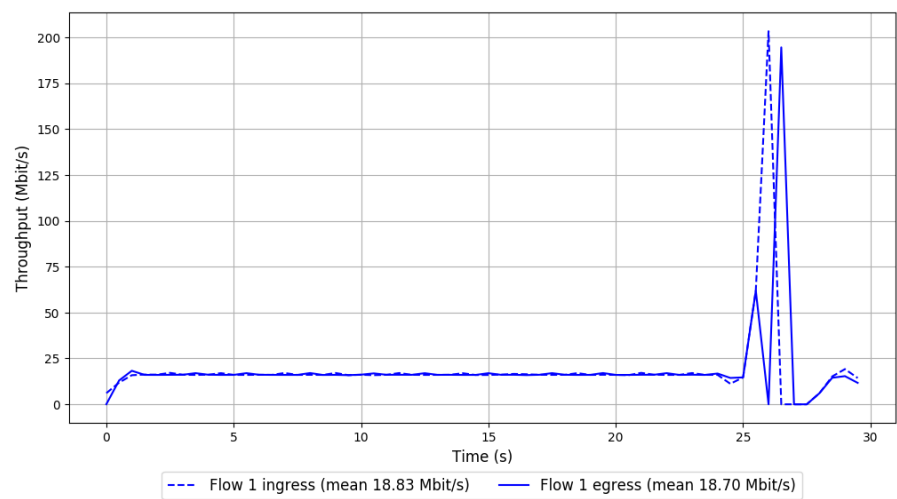


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-19 16:53:05
End at: 2018-02-19 16:53:35

# Below is generated by plot.py at 2018-02-19 22:30:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 18.70 Mbit/s
95th percentile per-packet one-way delay: 491.236 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 18.70 Mbit/s
95th percentile per-packet one-way delay: 491.236 ms
Loss rate: 1.42%
```


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



Run 2: Statistics of TaoVA-100x

Start at: 2018-02-19 17:08:26

End at: 2018-02-19 17:08:56

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.18 Mbit/s

95th percentile per-packet one-way delay: 100.078 ms

Loss rate: 0.91%

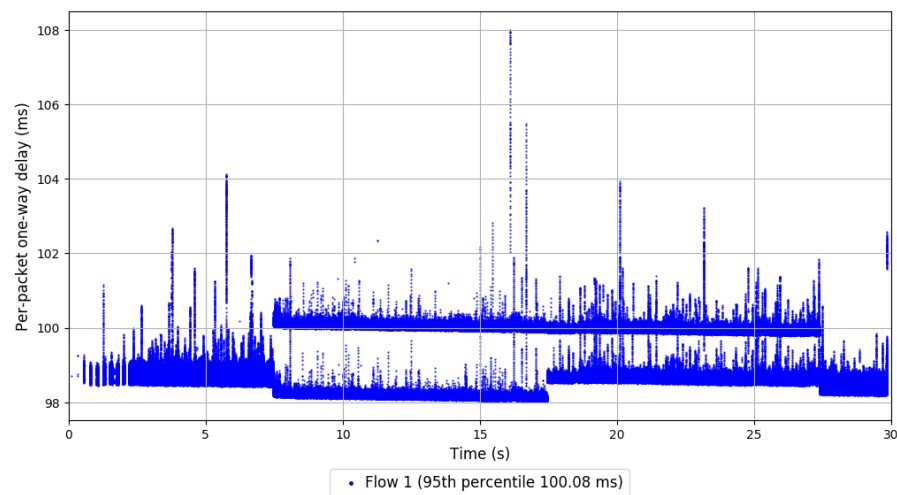
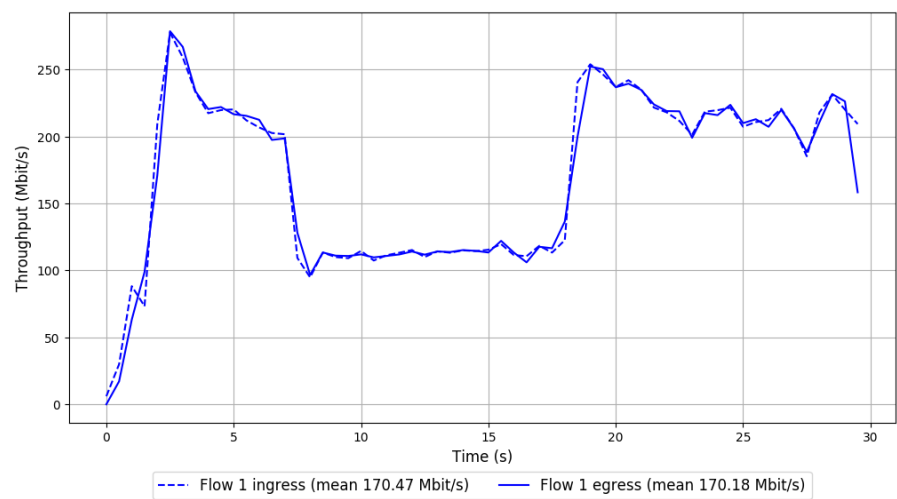
-- Flow 1:

Average throughput: 170.18 Mbit/s

95th percentile per-packet one-way delay: 100.078 ms

Loss rate: 0.91%

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



Run 3: Statistics of TaoVA-100x

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

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

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.34 Mbit/s

95th percentile per-packet one-way delay: 97.117 ms

Loss rate: 0.41%

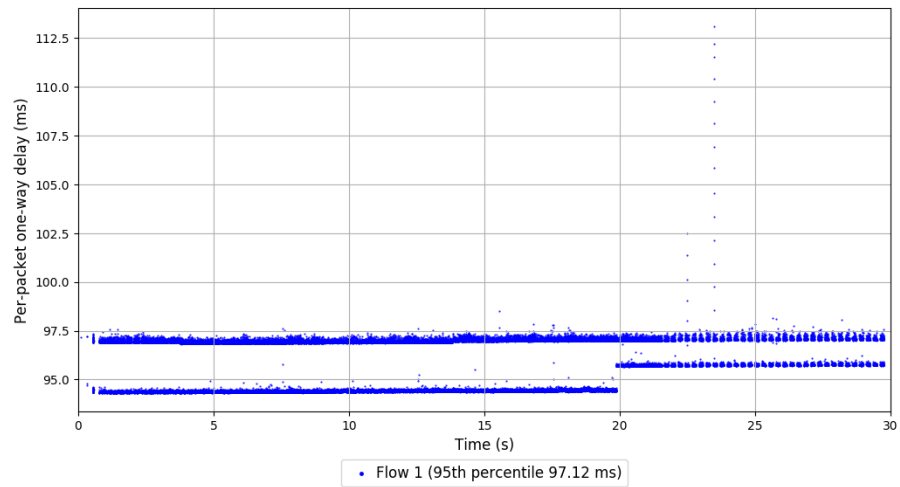
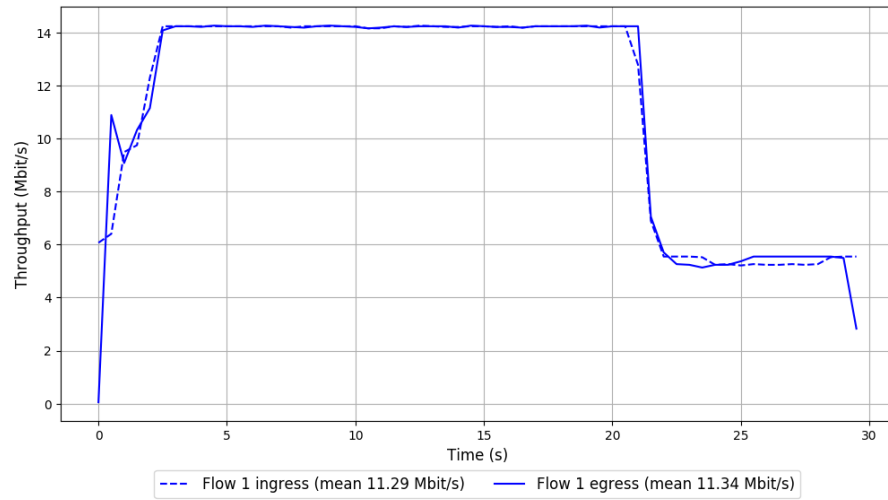
-- Flow 1:

Average throughput: 11.34 Mbit/s

95th percentile per-packet one-way delay: 97.117 ms

Loss rate: 0.41%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-02-19 17:40:13

End at: 2018-02-19 17:40:43

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.98 Mbit/s

95th percentile per-packet one-way delay: 91.047 ms

Loss rate: 1.36%

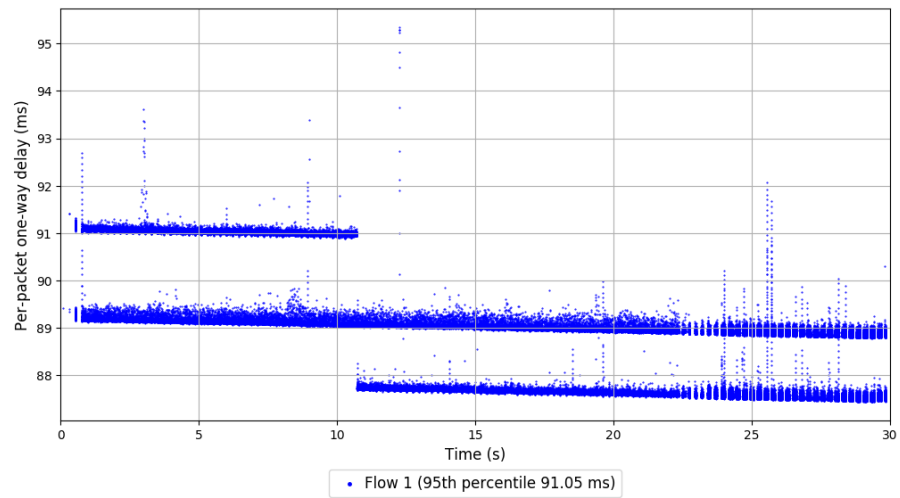
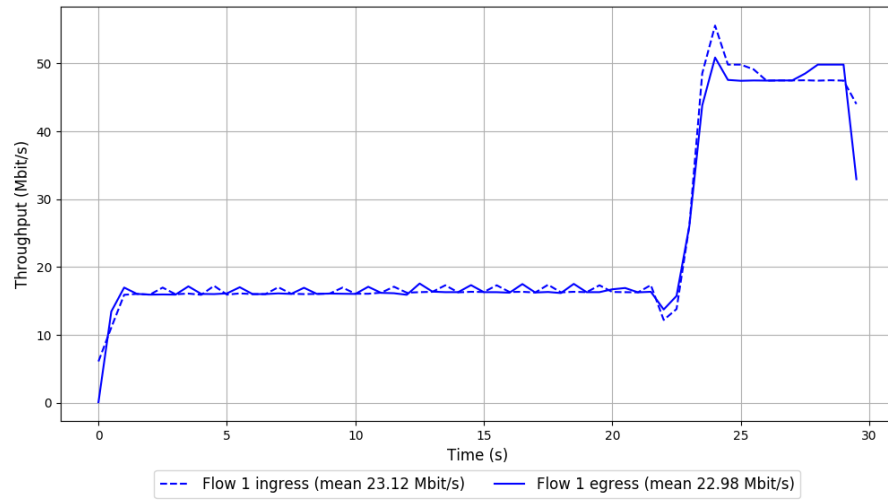
-- Flow 1:

Average throughput: 22.98 Mbit/s

95th percentile per-packet one-way delay: 91.047 ms

Loss rate: 1.36%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-19 17:55:47

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

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 134.73 Mbit/s

95th percentile per-packet one-way delay: 89.172 ms

Loss rate: 0.65%

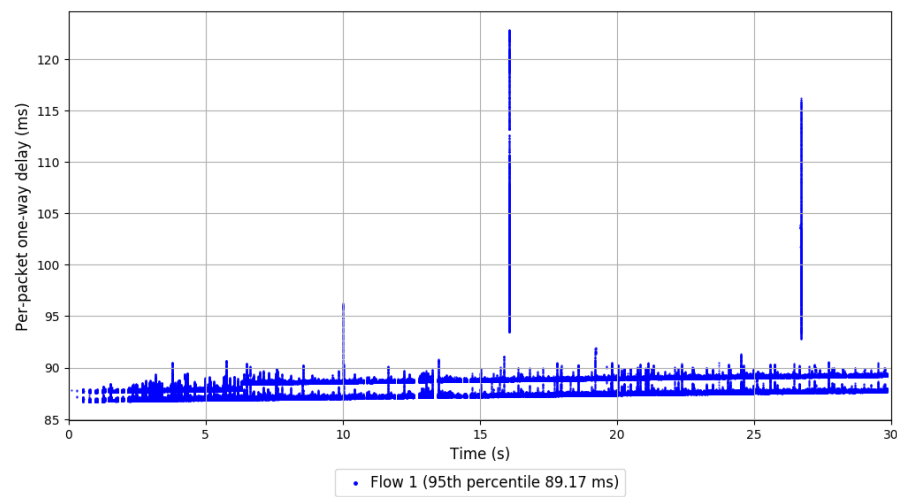
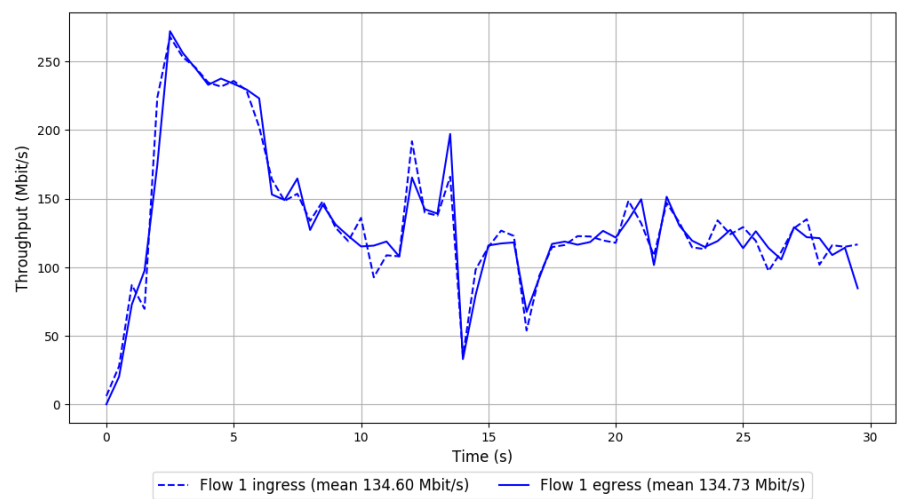
-- Flow 1:

Average throughput: 134.73 Mbit/s

95th percentile per-packet one-way delay: 89.172 ms

Loss rate: 0.65%

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



Run 6: Statistics of TaoVA-100x

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

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

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.75 Mbit/s

95th percentile per-packet one-way delay: 100.976 ms

Loss rate: 0.14%

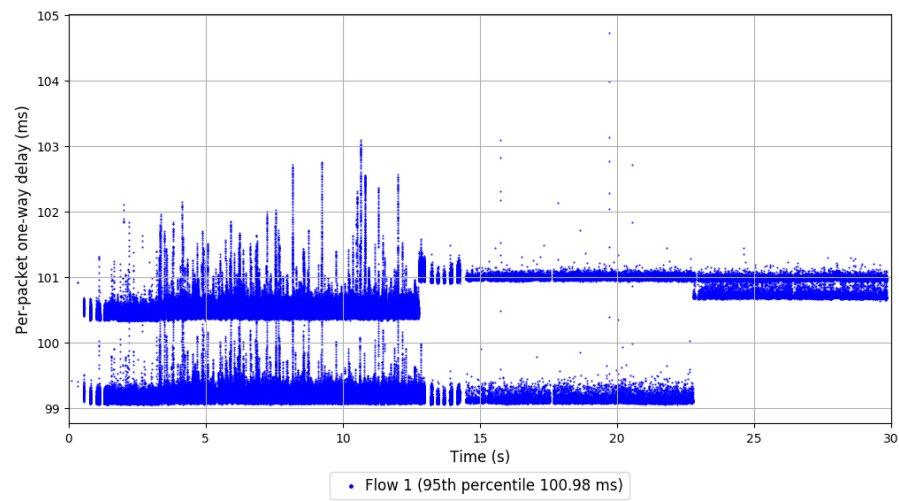
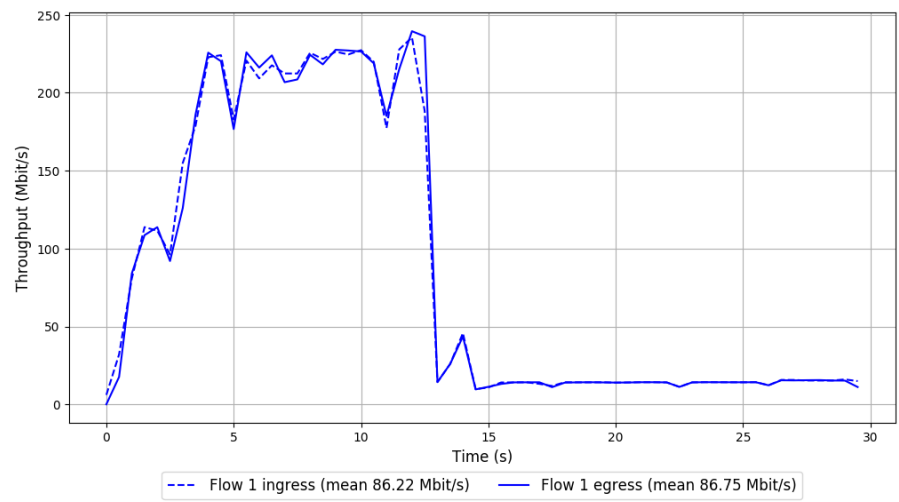
-- Flow 1:

Average throughput: 86.75 Mbit/s

95th percentile per-packet one-way delay: 100.976 ms

Loss rate: 0.14%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-19 18:27:37

End at: 2018-02-19 18:28:07

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.23 Mbit/s

95th percentile per-packet one-way delay: 99.424 ms

Loss rate: 0.55%

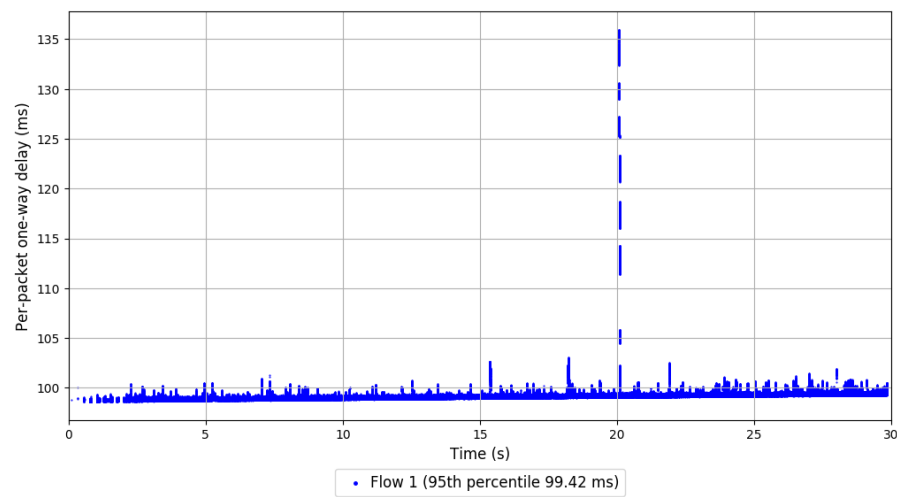
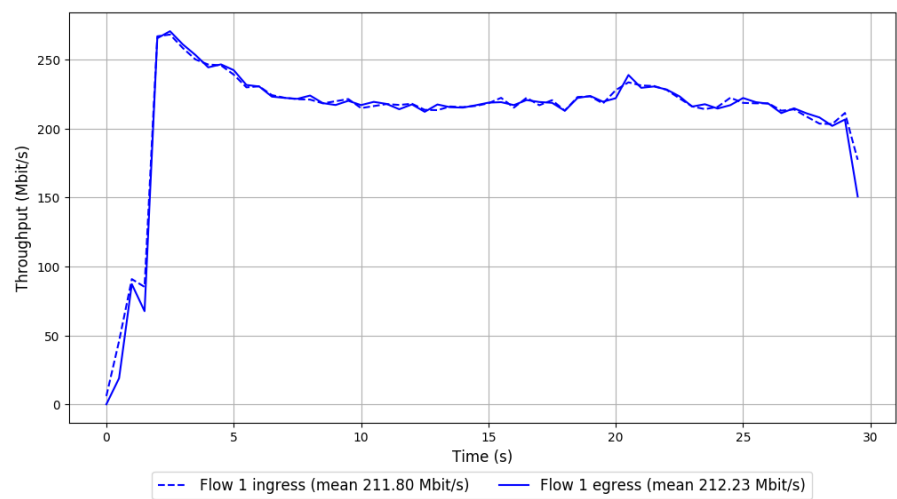
-- Flow 1:

Average throughput: 212.23 Mbit/s

95th percentile per-packet one-way delay: 99.424 ms

Loss rate: 0.55%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-19 18:44:06

End at: 2018-02-19 18:44:36

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 138.38 Mbit/s

95th percentile per-packet one-way delay: 105.683 ms

Loss rate: 0.25%

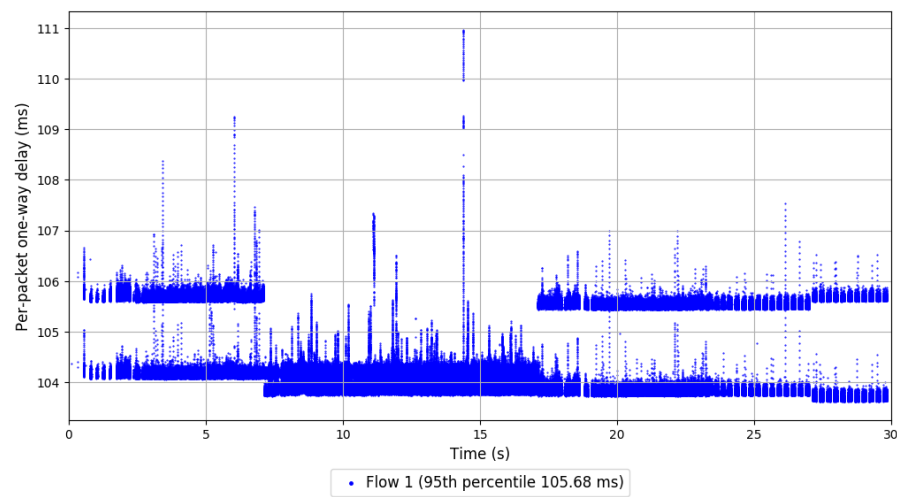
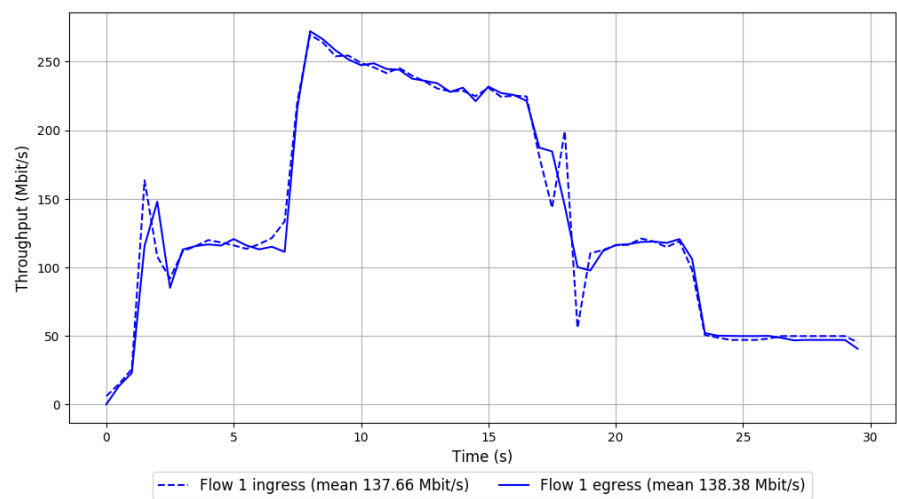
-- Flow 1:

Average throughput: 138.38 Mbit/s

95th percentile per-packet one-way delay: 105.683 ms

Loss rate: 0.25%

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



Run 9: Statistics of TaoVA-100x

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

End at: 2018-02-19 19:00:22

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.00 Mbit/s

95th percentile per-packet one-way delay: 105.056 ms

Loss rate: 0.30%

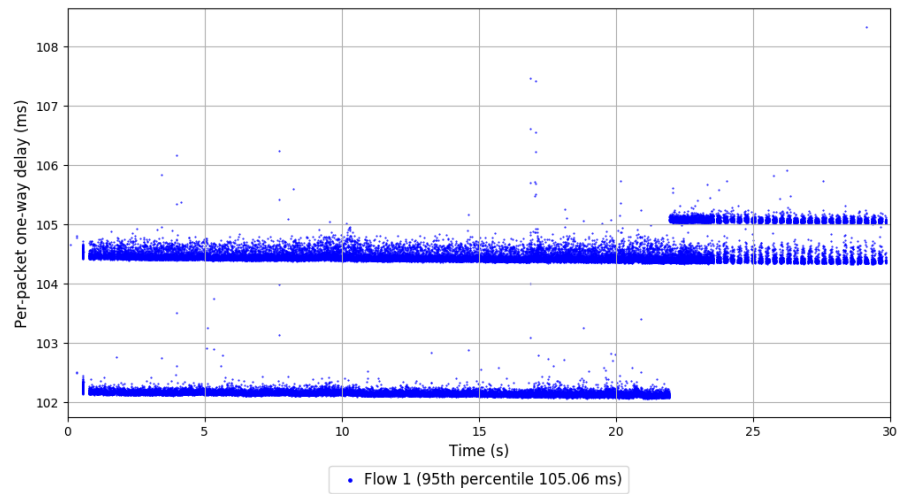
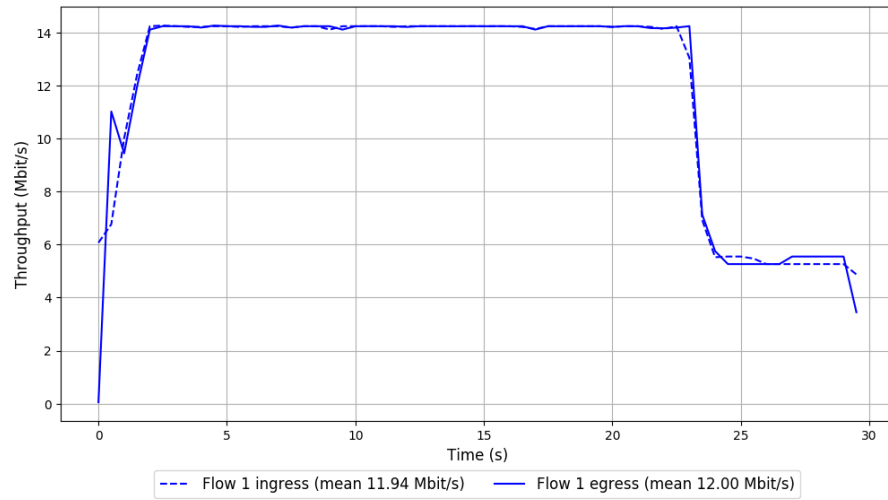
-- Flow 1:

Average throughput: 12.00 Mbit/s

95th percentile per-packet one-way delay: 105.056 ms

Loss rate: 0.30%

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

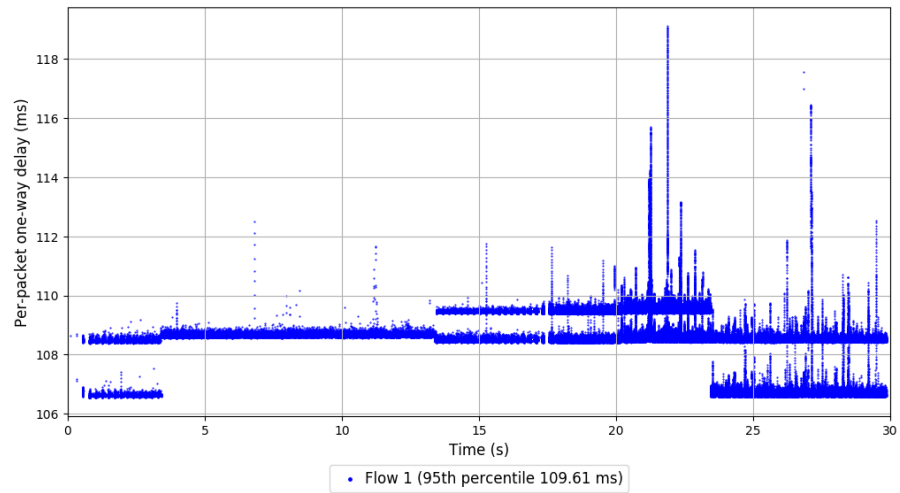
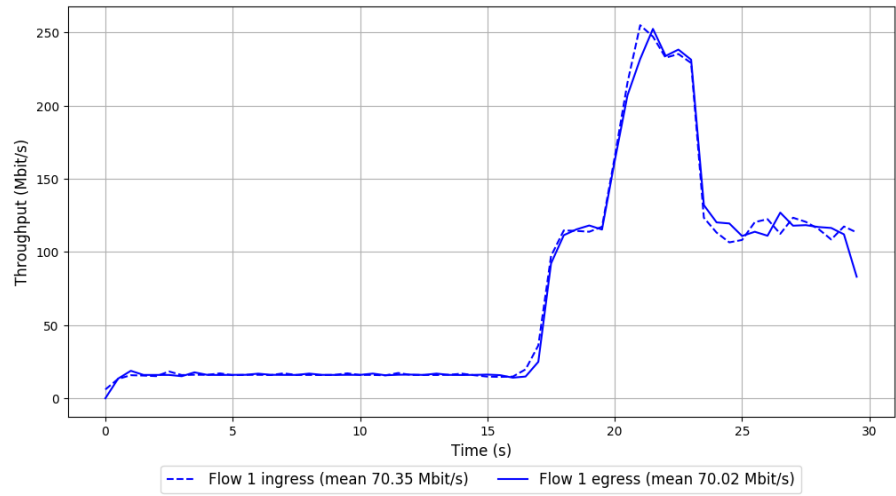


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-19 19:15:30
End at: 2018-02-19 19:16:00

# Below is generated by plot.py at 2018-02-19 22:30:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.02 Mbit/s
95th percentile per-packet one-way delay: 109.611 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 70.02 Mbit/s
95th percentile per-packet one-way delay: 109.611 ms
Loss rate: 1.23%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-19 16:54:37

End at: 2018-02-19 16:55:07

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.30 Mbit/s

95th percentile per-packet one-way delay: 106.119 ms

Loss rate: 0.71%

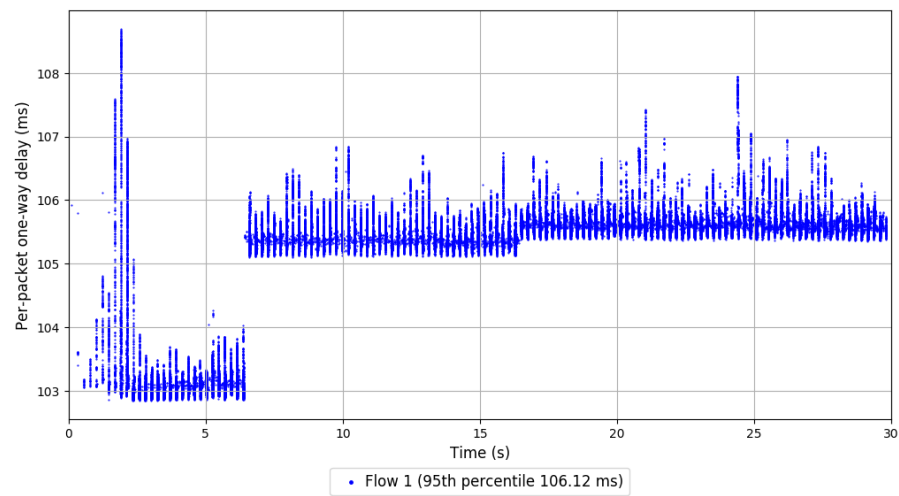
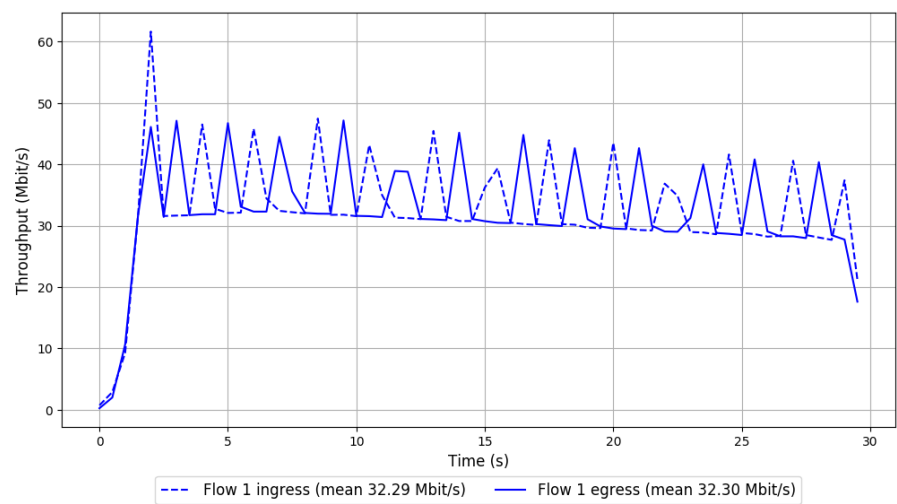
-- Flow 1:

Average throughput: 32.30 Mbit/s

95th percentile per-packet one-way delay: 106.119 ms

Loss rate: 0.71%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-19 17:10:15

End at: 2018-02-19 17:10:45

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.33 Mbit/s

95th percentile per-packet one-way delay: 107.555 ms

Loss rate: 0.78%

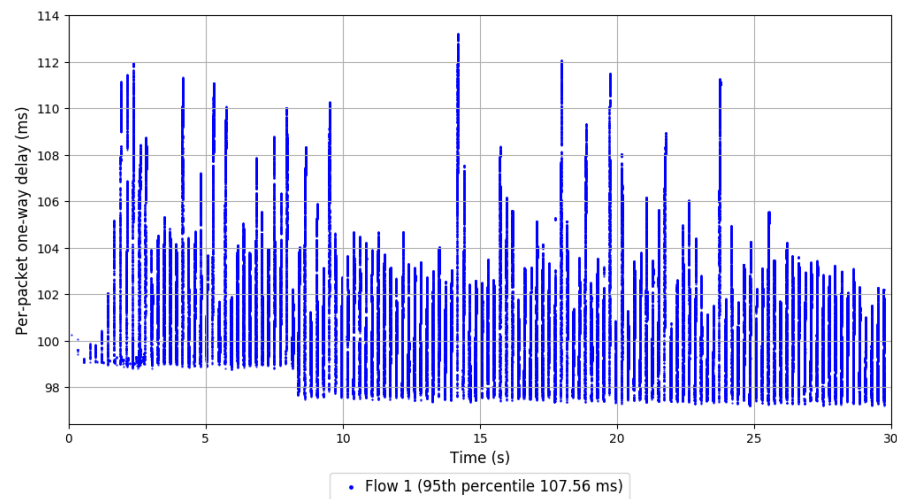
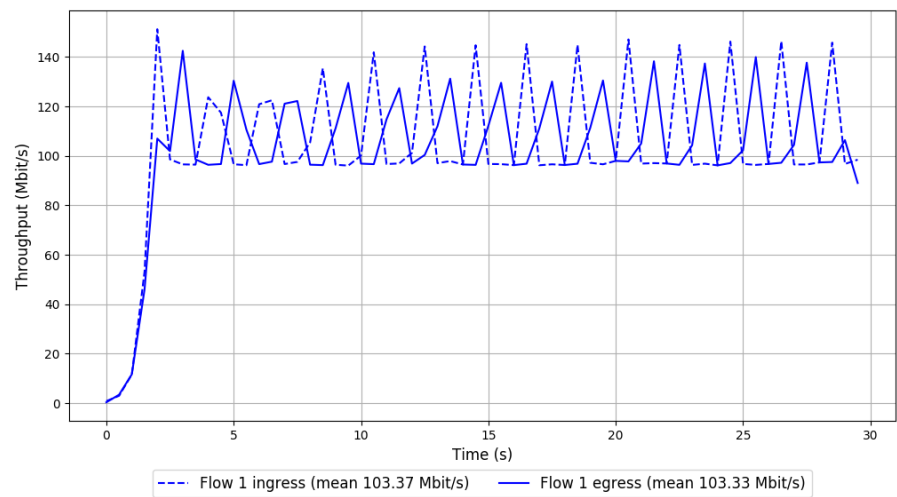
-- Flow 1:

Average throughput: 103.33 Mbit/s

95th percentile per-packet one-way delay: 107.555 ms

Loss rate: 0.78%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-19 17:26:00

End at: 2018-02-19 17:26:30

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.46 Mbit/s

95th percentile per-packet one-way delay: 96.678 ms

Loss rate: 0.72%

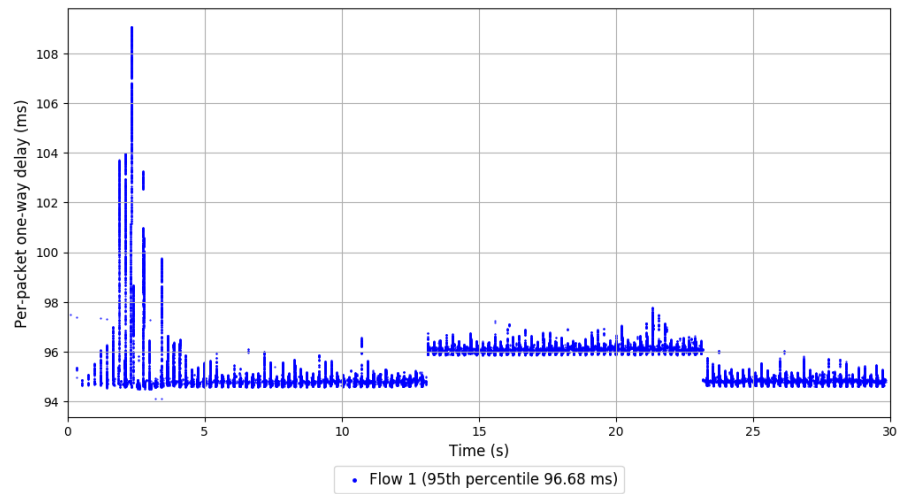
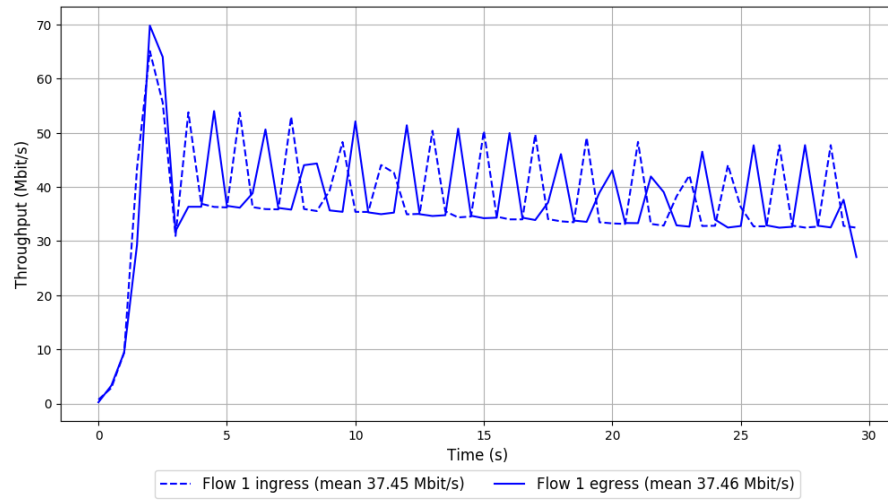
-- Flow 1:

Average throughput: 37.46 Mbit/s

95th percentile per-packet one-way delay: 96.678 ms

Loss rate: 0.72%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-19 17:41:51

End at: 2018-02-19 17:42:21

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.12 Mbit/s

95th percentile per-packet one-way delay: 90.647 ms

Loss rate: 0.71%

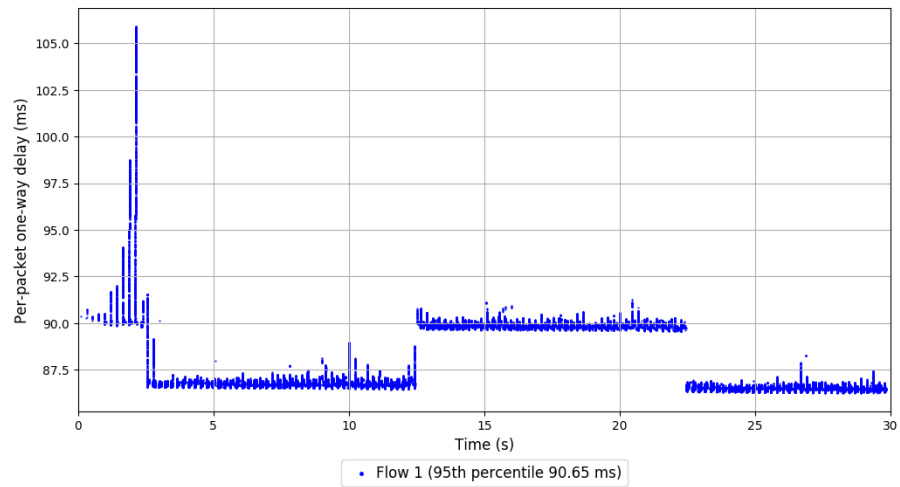
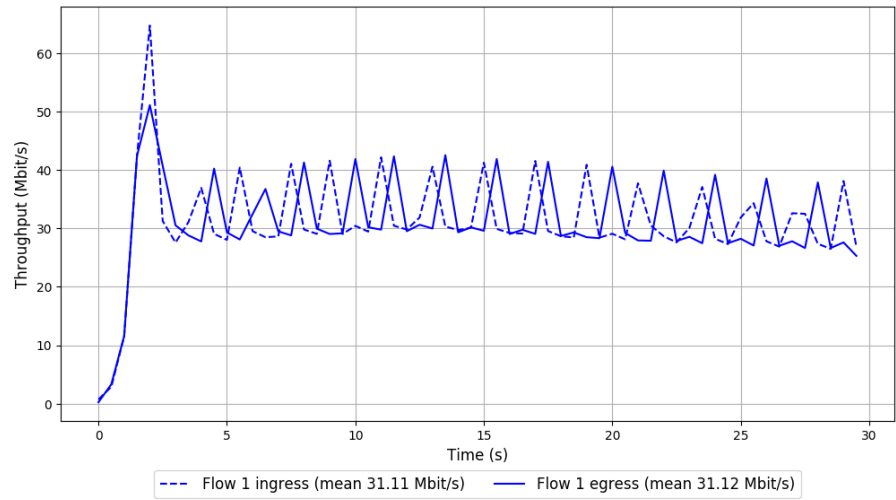
-- Flow 1:

Average throughput: 31.12 Mbit/s

95th percentile per-packet one-way delay: 90.647 ms

Loss rate: 0.71%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-19 17:57:32

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

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.75 Mbit/s

95th percentile per-packet one-way delay: 94.798 ms

Loss rate: 0.78%

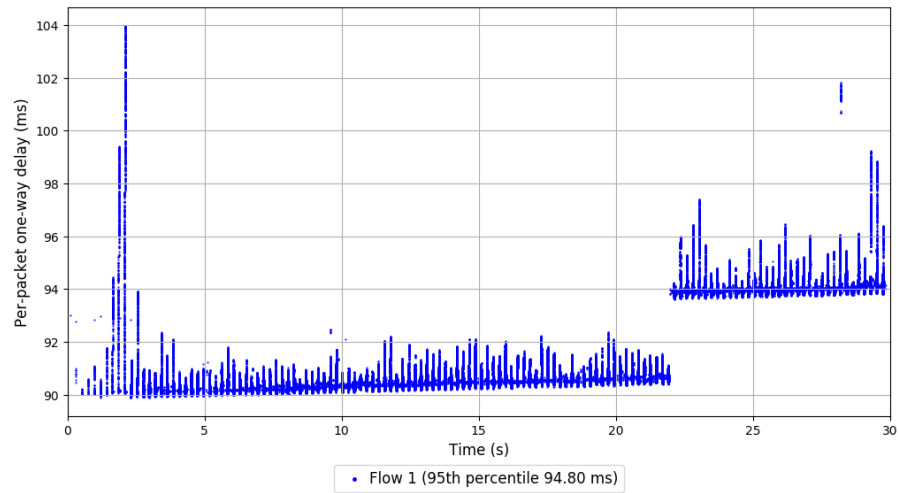
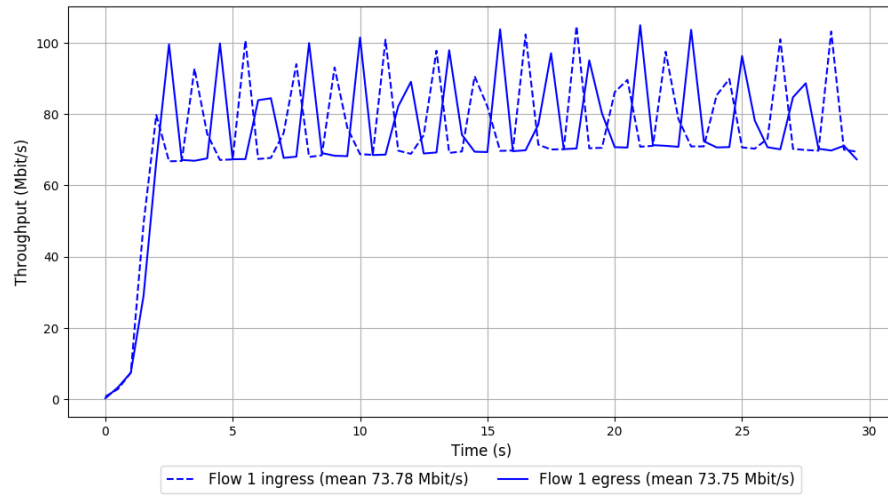
-- Flow 1:

Average throughput: 73.75 Mbit/s

95th percentile per-packet one-way delay: 94.798 ms

Loss rate: 0.78%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-19 18:12:52

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

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.70 Mbit/s

95th percentile per-packet one-way delay: 105.199 ms

Loss rate: 0.80%

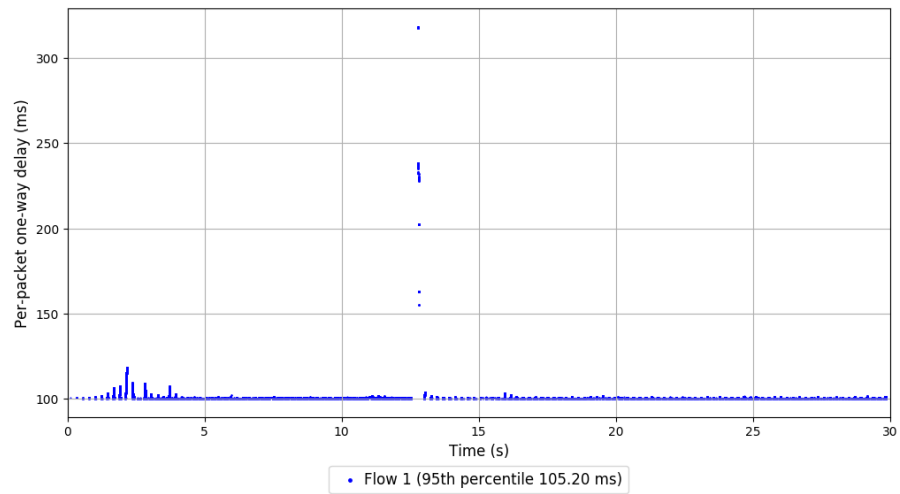
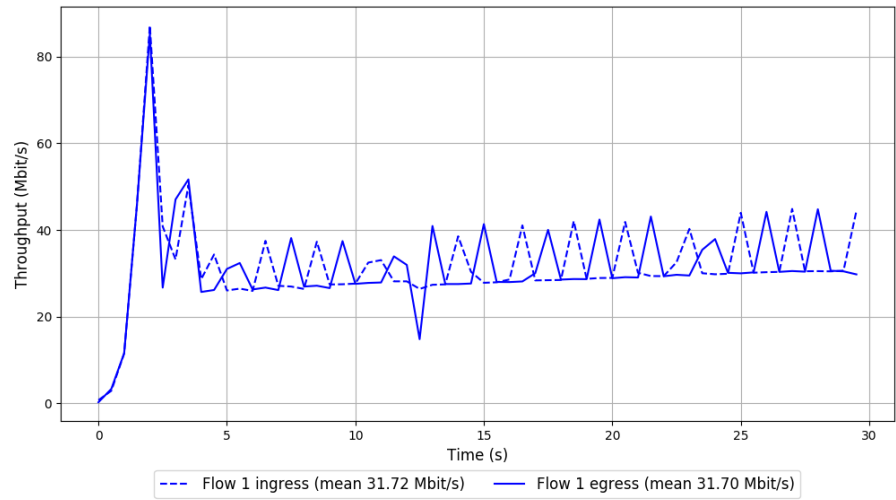
-- Flow 1:

Average throughput: 31.70 Mbit/s

95th percentile per-packet one-way delay: 105.199 ms

Loss rate: 0.80%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

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

End at: 2018-02-19 18:29:59

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.10 Mbit/s

95th percentile per-packet one-way delay: 102.074 ms

Loss rate: 0.87%

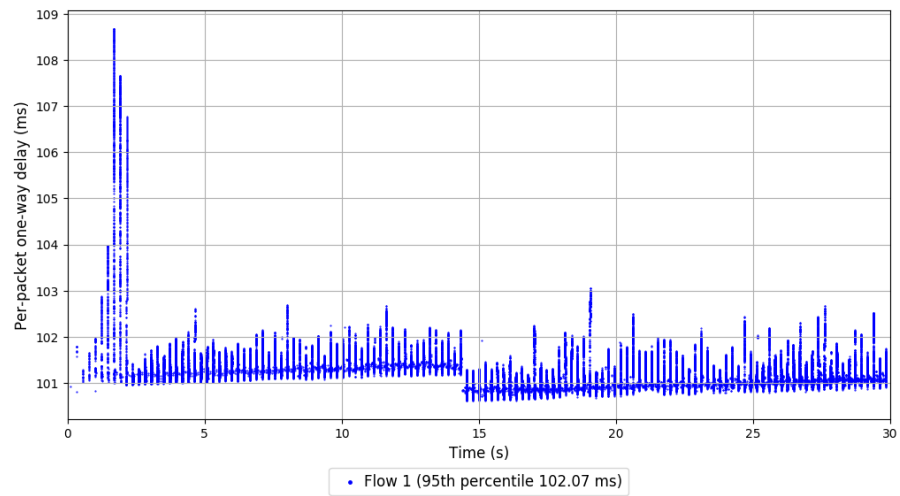
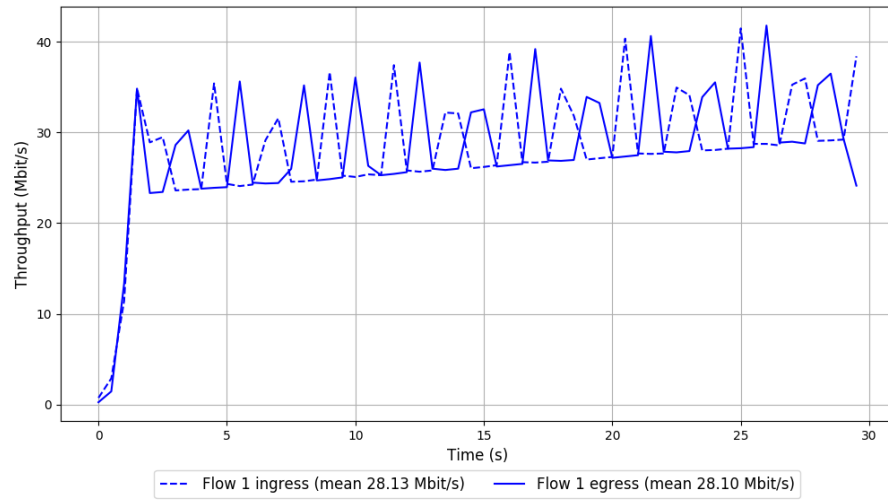
-- Flow 1:

Average throughput: 28.10 Mbit/s

95th percentile per-packet one-way delay: 102.074 ms

Loss rate: 0.87%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-19 18:45:52

End at: 2018-02-19 18:46:22

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.14 Mbit/s

95th percentile per-packet one-way delay: 106.911 ms

Loss rate: 0.71%

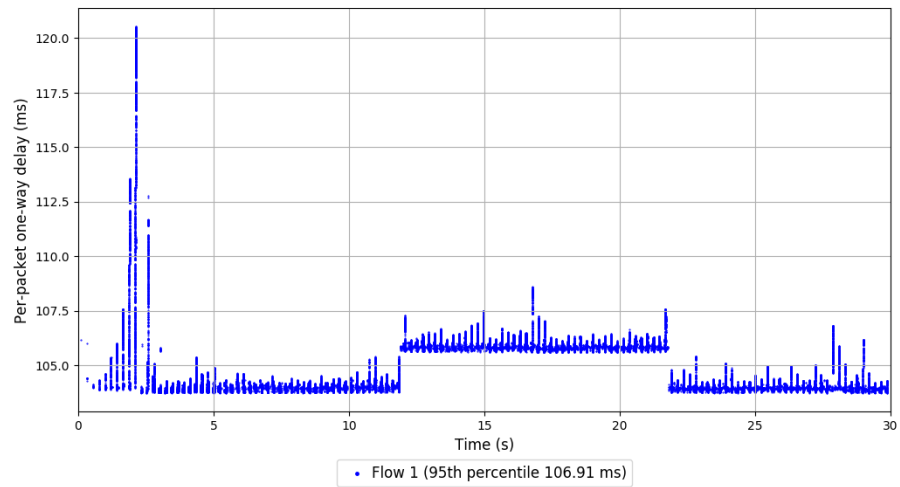
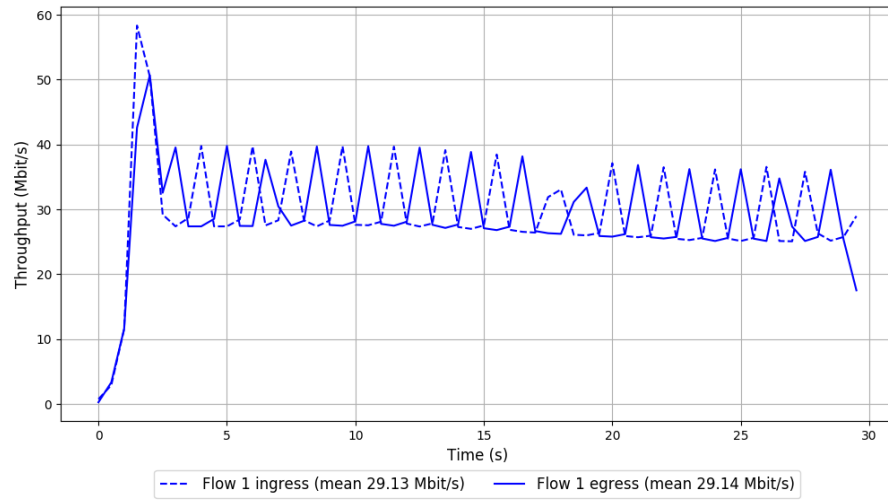
-- Flow 1:

Average throughput: 29.14 Mbit/s

95th percentile per-packet one-way delay: 106.911 ms

Loss rate: 0.71%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-19 19:01:25

End at: 2018-02-19 19:01:55

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.03 Mbit/s

95th percentile per-packet one-way delay: 112.108 ms

Loss rate: 0.59%

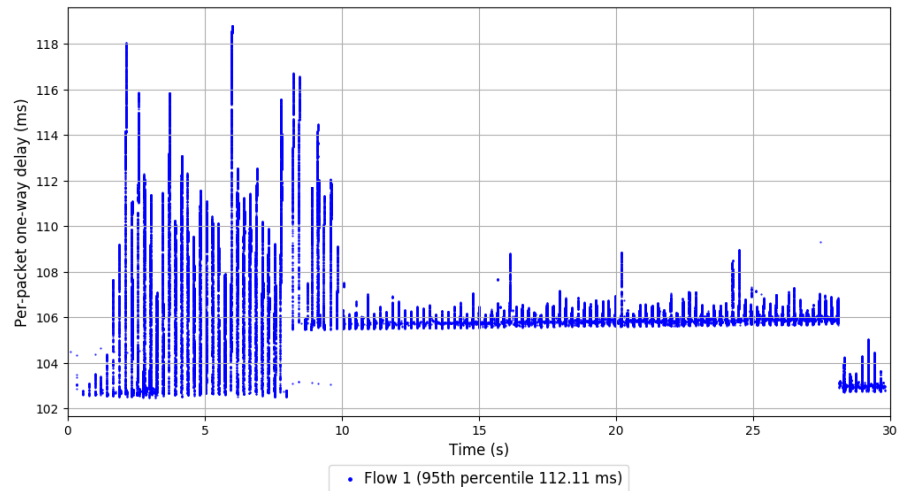
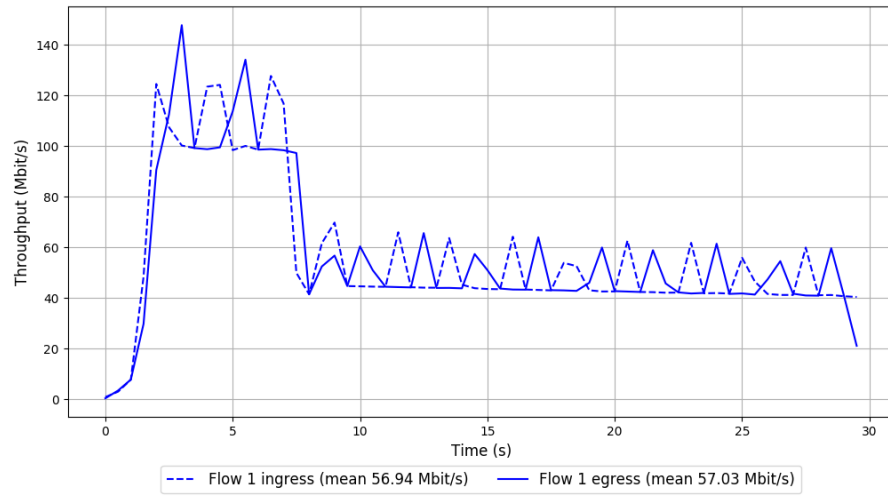
-- Flow 1:

Average throughput: 57.03 Mbit/s

95th percentile per-packet one-way delay: 112.108 ms

Loss rate: 0.59%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

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

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

Below is generated by plot.py at 2018-02-19 22:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.02 Mbit/s

95th percentile per-packet one-way delay: 110.069 ms

Loss rate: 0.77%

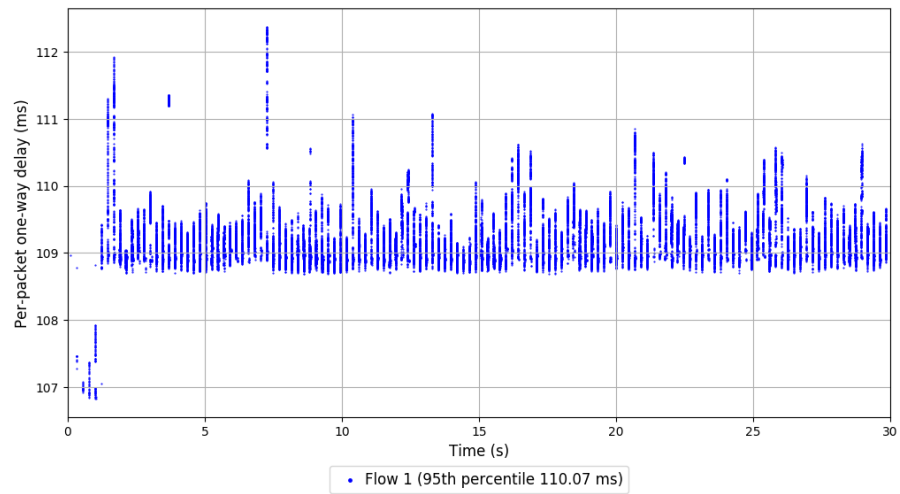
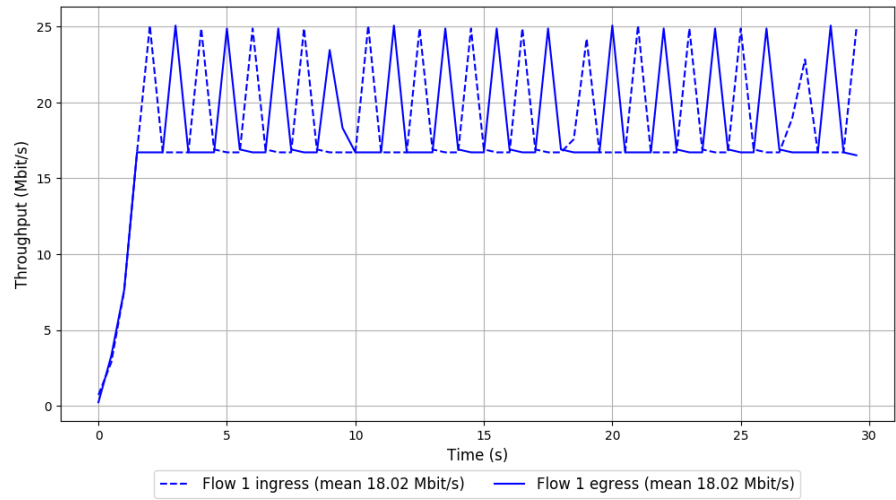
-- Flow 1:

Average throughput: 18.02 Mbit/s

95th percentile per-packet one-way delay: 110.069 ms

Loss rate: 0.77%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-02-19 16:52:10

End at: 2018-02-19 16:52:40

Below is generated by plot.py at 2018-02-19 22:32:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.05 Mbit/s

95th percentile per-packet one-way delay: 117.776 ms

Loss rate: 1.50%

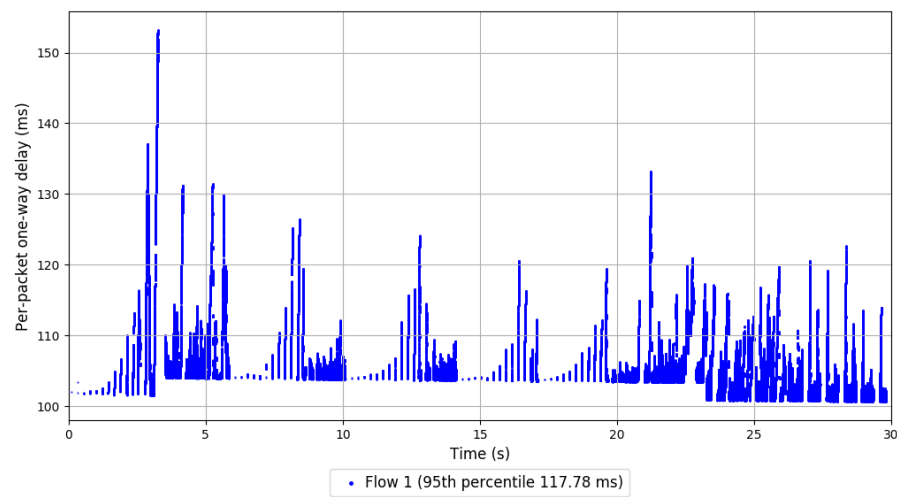
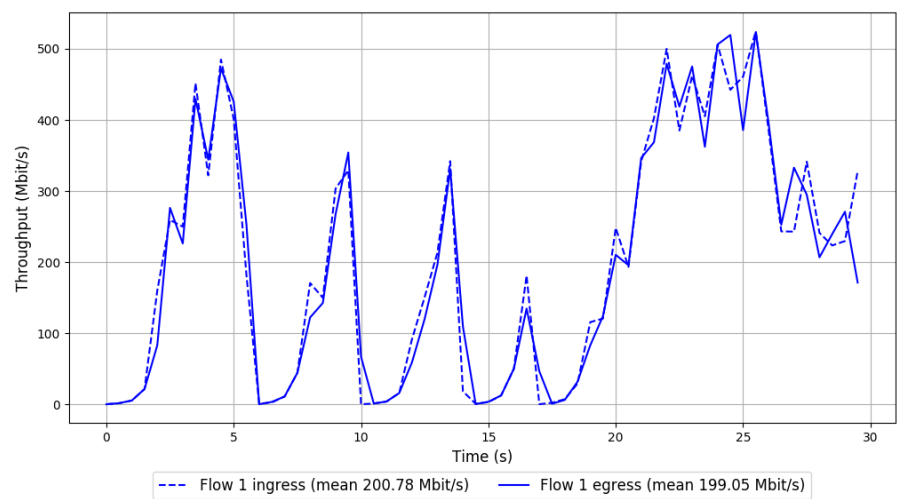
-- Flow 1:

Average throughput: 199.05 Mbit/s

95th percentile per-packet one-way delay: 117.776 ms

Loss rate: 1.50%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-19 17:07:35

End at: 2018-02-19 17:08:05

Below is generated by plot.py at 2018-02-19 22:32:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 139.50 Mbit/s

95th percentile per-packet one-way delay: 115.117 ms

Loss rate: 0.98%

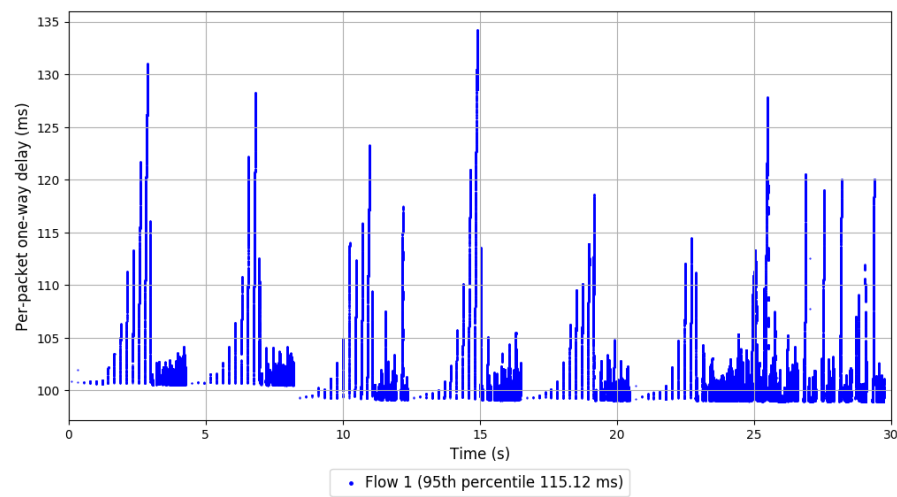
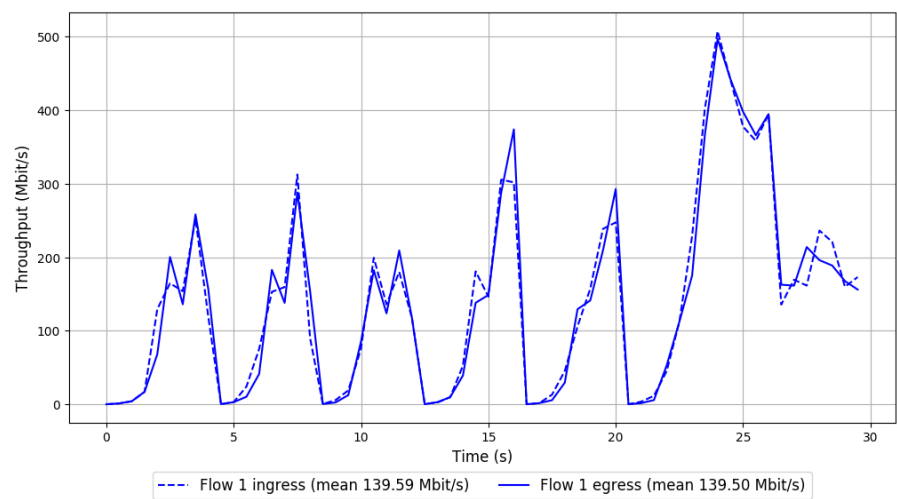
-- Flow 1:

Average throughput: 139.50 Mbit/s

95th percentile per-packet one-way delay: 115.117 ms

Loss rate: 0.98%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-19 17:23:26

End at: 2018-02-19 17:23:56

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 236.78 Mbit/s

95th percentile per-packet one-way delay: 167.900 ms

Loss rate: 0.94%

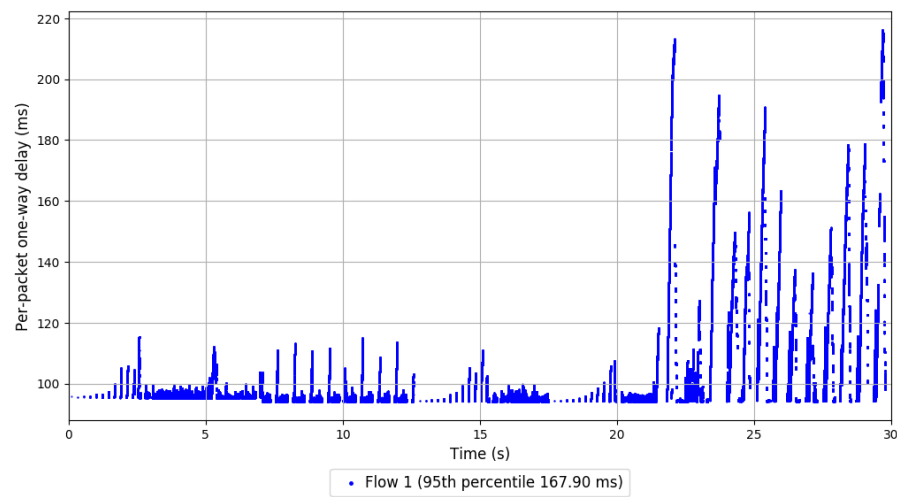
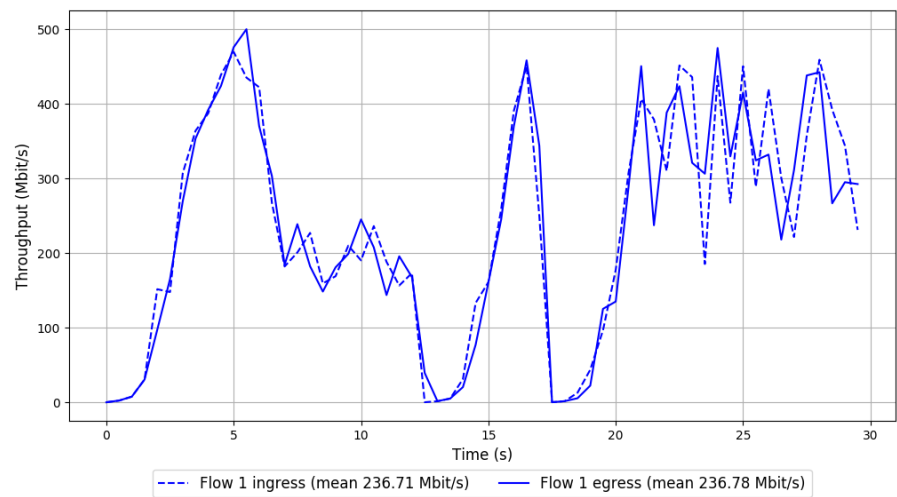
-- Flow 1:

Average throughput: 236.78 Mbit/s

95th percentile per-packet one-way delay: 167.900 ms

Loss rate: 0.94%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-19 17:39:10

End at: 2018-02-19 17:39:40

Below is generated by plot.py at 2018-02-19 22:34:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 315.71 Mbit/s

95th percentile per-packet one-way delay: 274.272 ms

Loss rate: 5.02%

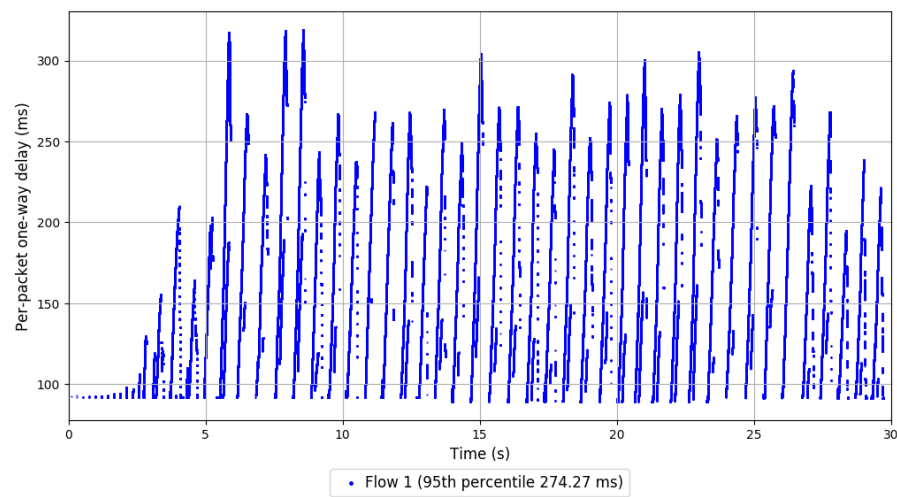
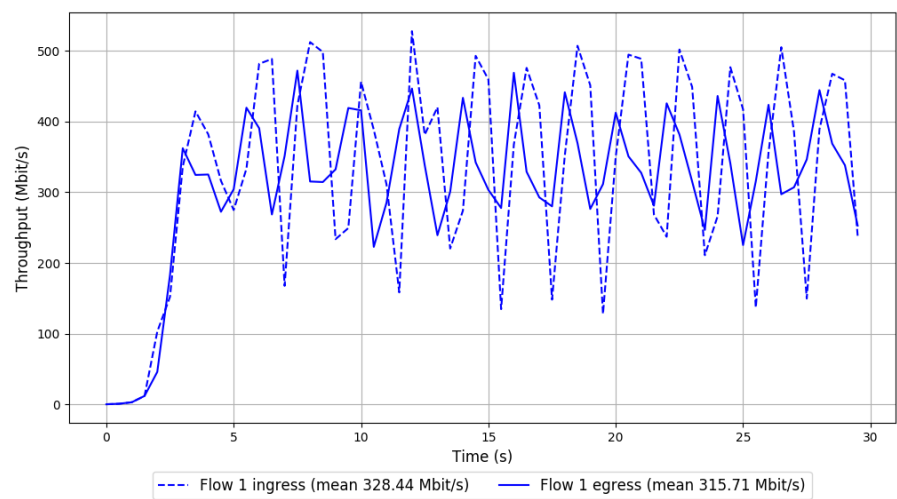
-- Flow 1:

Average throughput: 315.71 Mbit/s

95th percentile per-packet one-way delay: 274.272 ms

Loss rate: 5.02%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-19 17:54:53

End at: 2018-02-19 17:55:23

Below is generated by plot.py at 2018-02-19 22:34:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.01 Mbit/s

95th percentile per-packet one-way delay: 111.916 ms

Loss rate: 0.07%

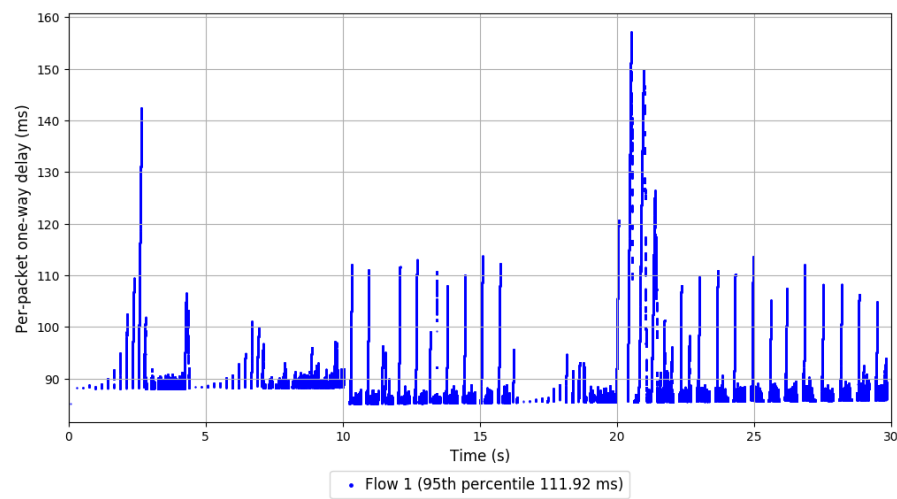
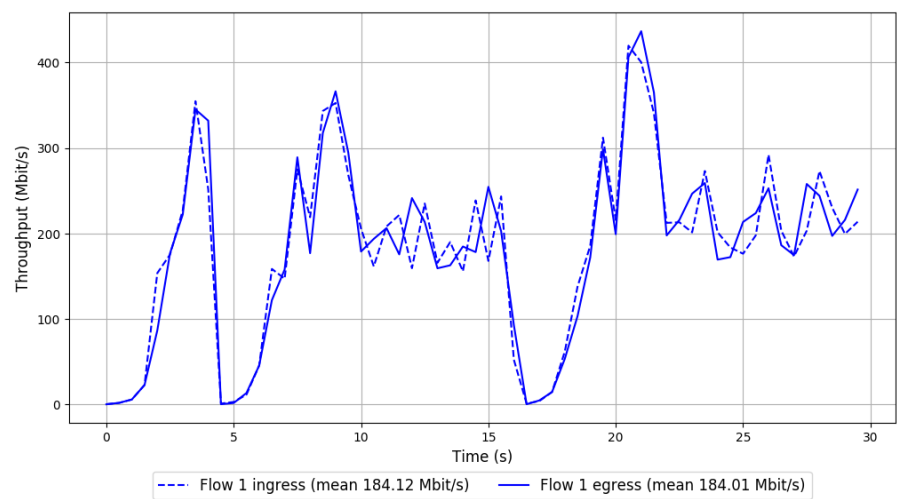
-- Flow 1:

Average throughput: 184.01 Mbit/s

95th percentile per-packet one-way delay: 111.916 ms

Loss rate: 0.07%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

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

End at: 2018-02-19 18:10:48

Below is generated by plot.py at 2018-02-19 22:34:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 166.58 Mbit/s

95th percentile per-packet one-way delay: 143.487 ms

Loss rate: 1.14%

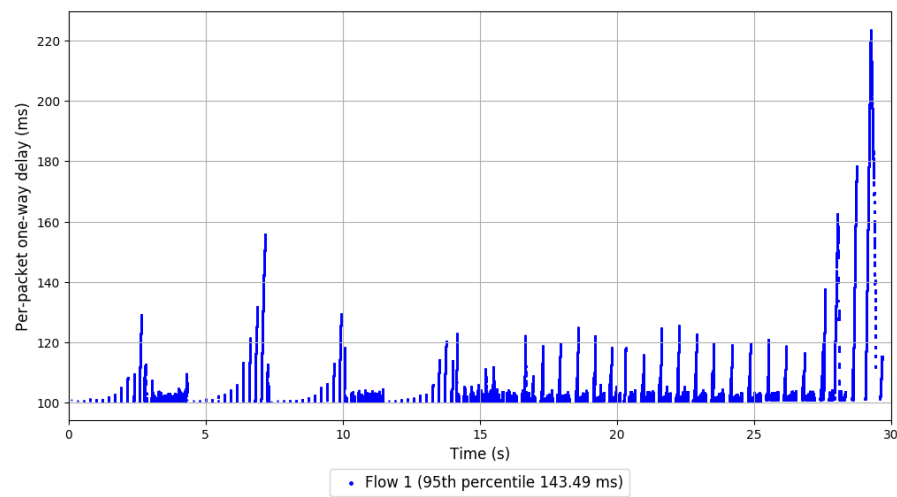
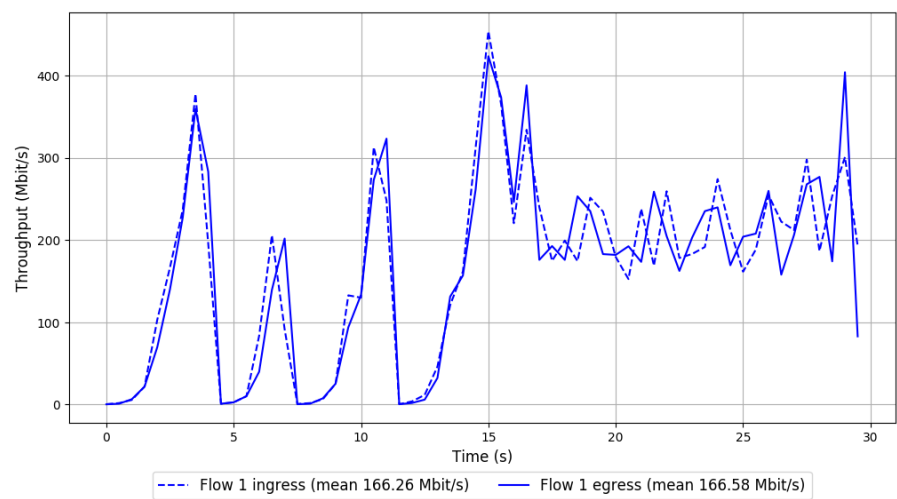
-- Flow 1:

Average throughput: 166.58 Mbit/s

95th percentile per-packet one-way delay: 143.487 ms

Loss rate: 1.14%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-19 18:26:47

End at: 2018-02-19 18:27:17

Below is generated by plot.py at 2018-02-19 22:34:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.00 Mbit/s

95th percentile per-packet one-way delay: 111.860 ms

Loss rate: 0.00%

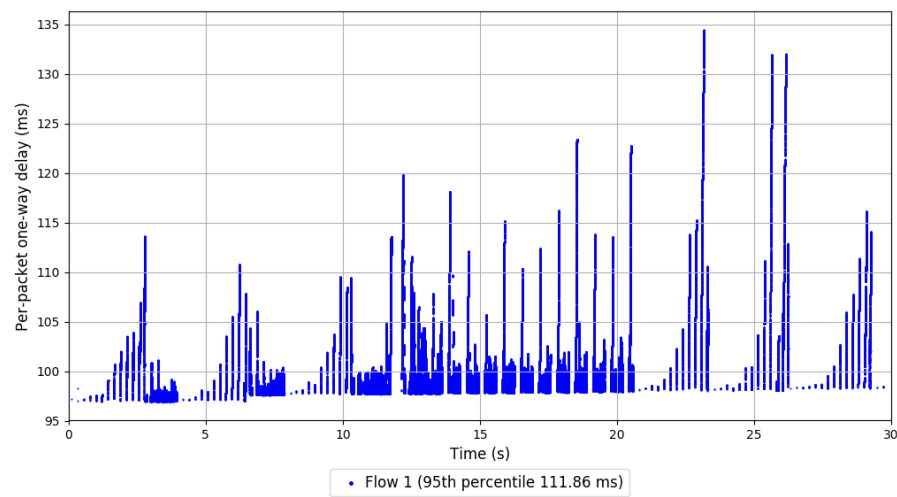
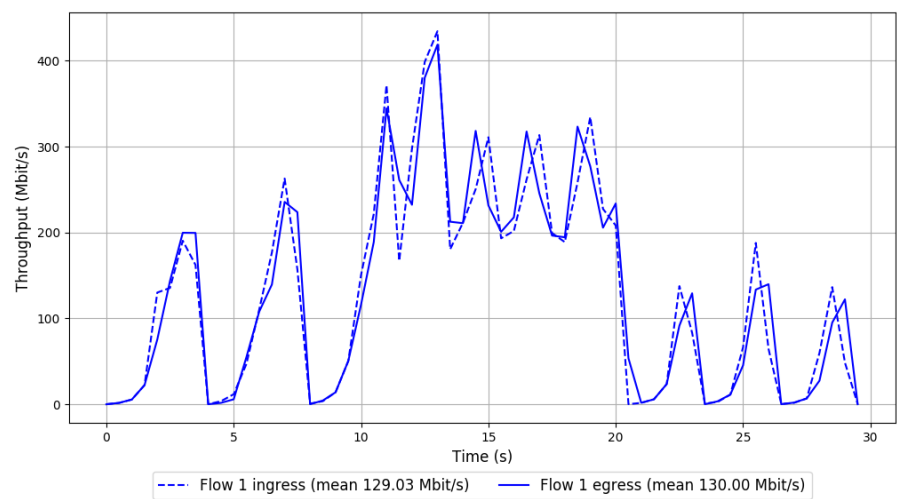
-- Flow 1:

Average throughput: 130.00 Mbit/s

95th percentile per-packet one-way delay: 111.860 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

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

End at: 2018-02-19 18:43:48

Below is generated by plot.py at 2018-02-19 22:34:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.35 Mbit/s

95th percentile per-packet one-way delay: 274.958 ms

Loss rate: 0.49%

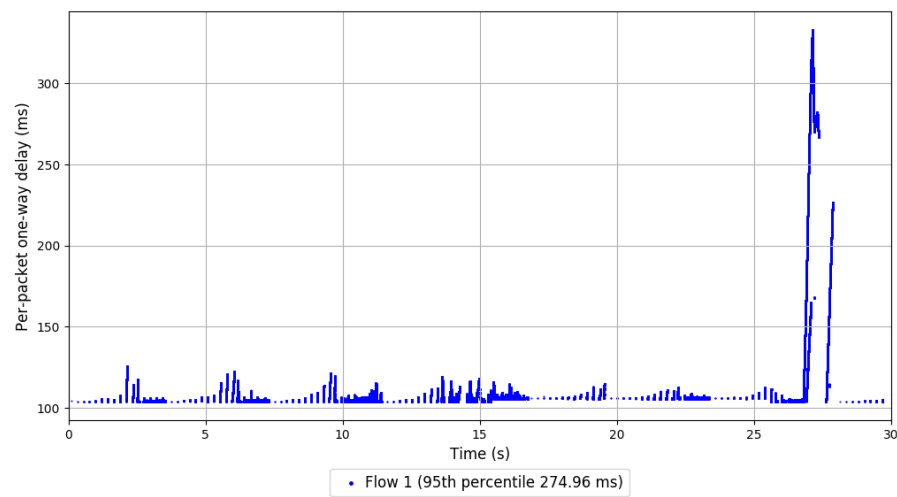
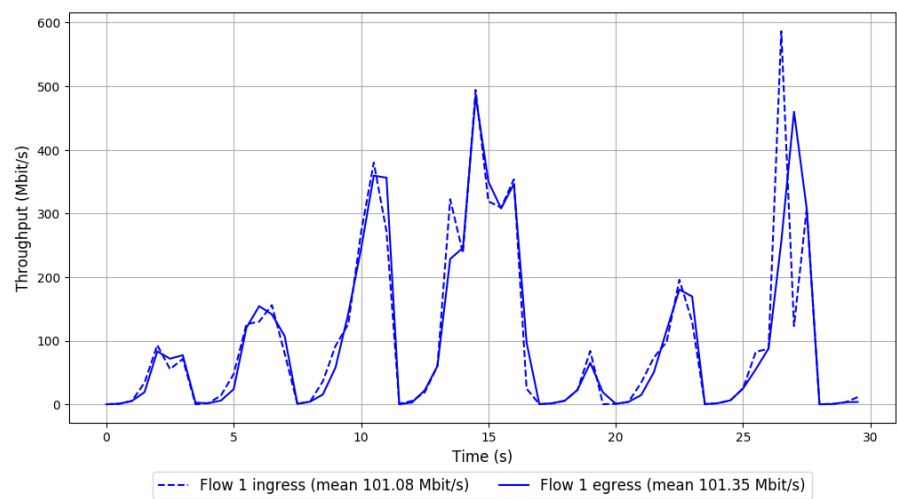
-- Flow 1:

Average throughput: 101.35 Mbit/s

95th percentile per-packet one-way delay: 274.958 ms

Loss rate: 0.49%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

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

End at: 2018-02-19 18:59:28

Below is generated by plot.py at 2018-02-19 22:34:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 177.84 Mbit/s

95th percentile per-packet one-way delay: 127.920 ms

Loss rate: 0.61%

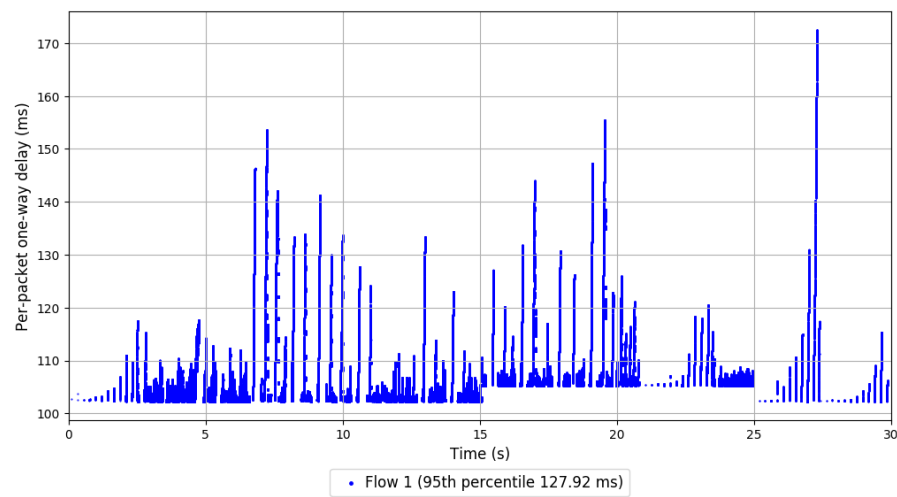
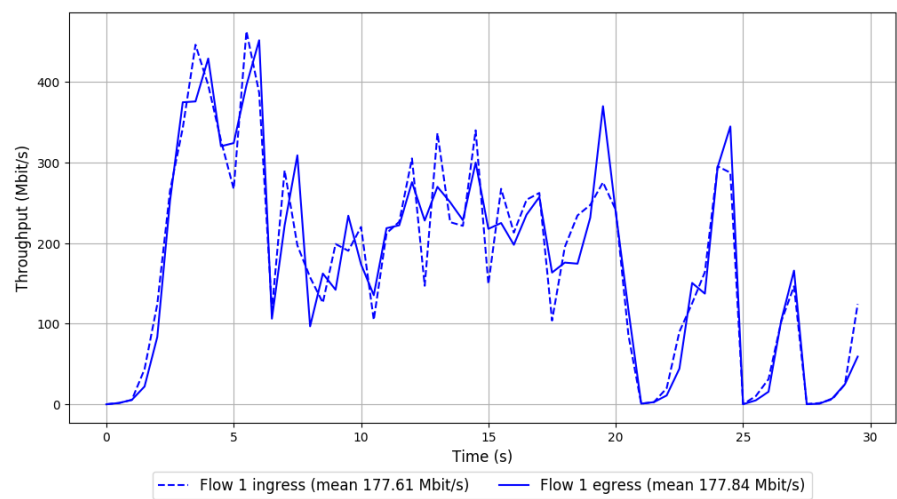
-- Flow 1:

Average throughput: 177.84 Mbit/s

95th percentile per-packet one-way delay: 127.920 ms

Loss rate: 0.61%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-19 19:14:39

End at: 2018-02-19 19:15:09

Below is generated by plot.py at 2018-02-19 22:34:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 140.96 Mbit/s

95th percentile per-packet one-way delay: 121.560 ms

Loss rate: 0.67%

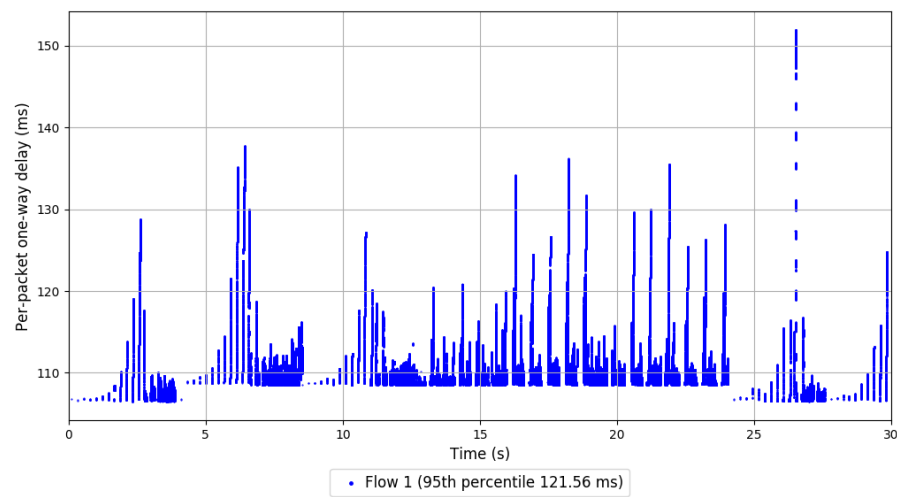
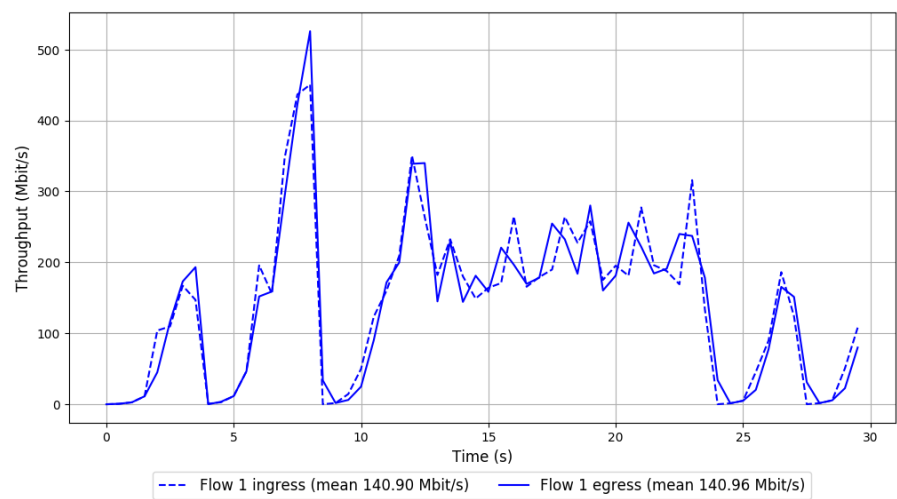
-- Flow 1:

Average throughput: 140.96 Mbit/s

95th percentile per-packet one-way delay: 121.560 ms

Loss rate: 0.67%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-02-19 16:50:40

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

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.27 Mbit/s

95th percentile per-packet one-way delay: 106.632 ms

Loss rate: 0.81%

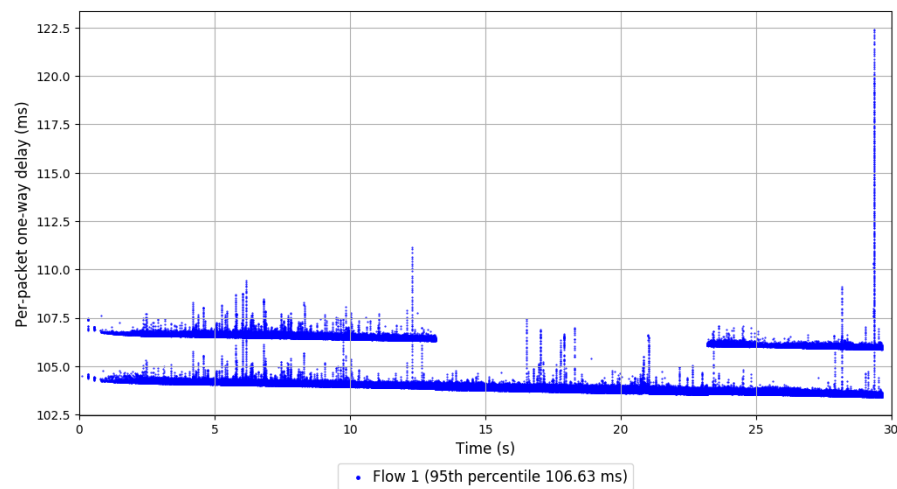
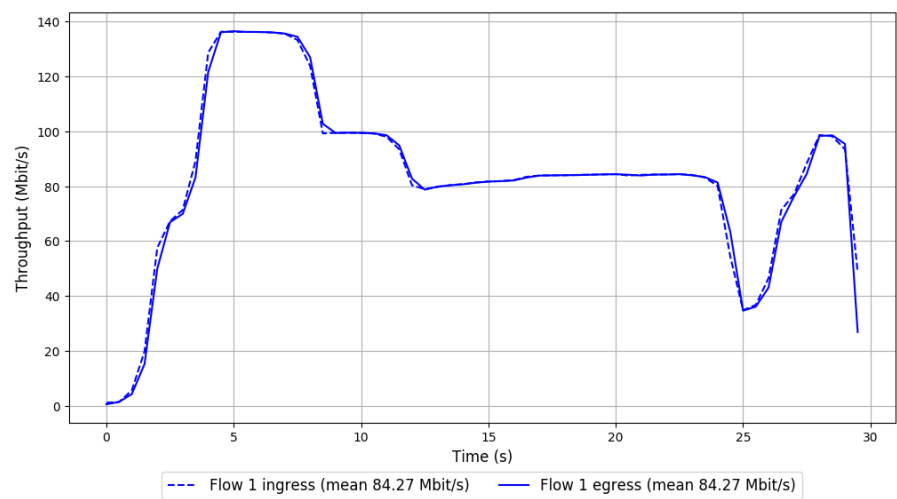
-- Flow 1:

Average throughput: 84.27 Mbit/s

95th percentile per-packet one-way delay: 106.632 ms

Loss rate: 0.81%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

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

End at: 2018-02-19 17:06:36

Below is generated by plot.py at 2018-02-19 22:35:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.89 Mbit/s

95th percentile per-packet one-way delay: 102.223 ms

Loss rate: 0.48%

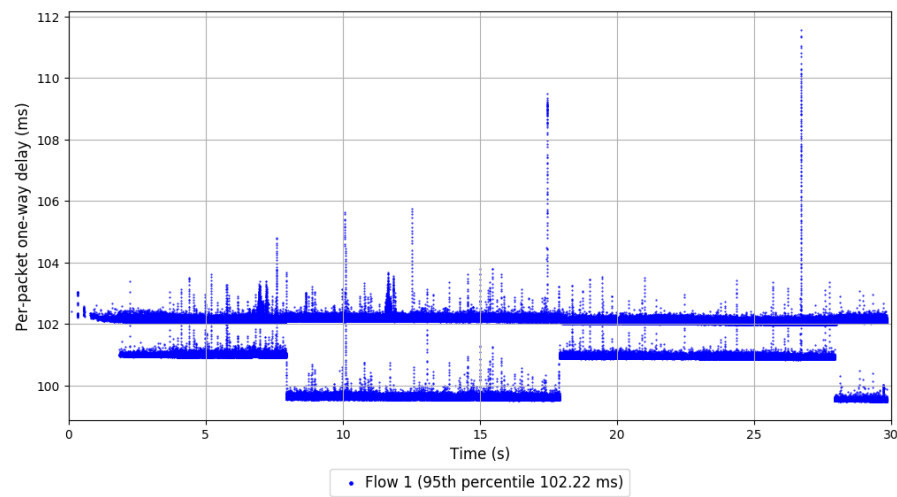
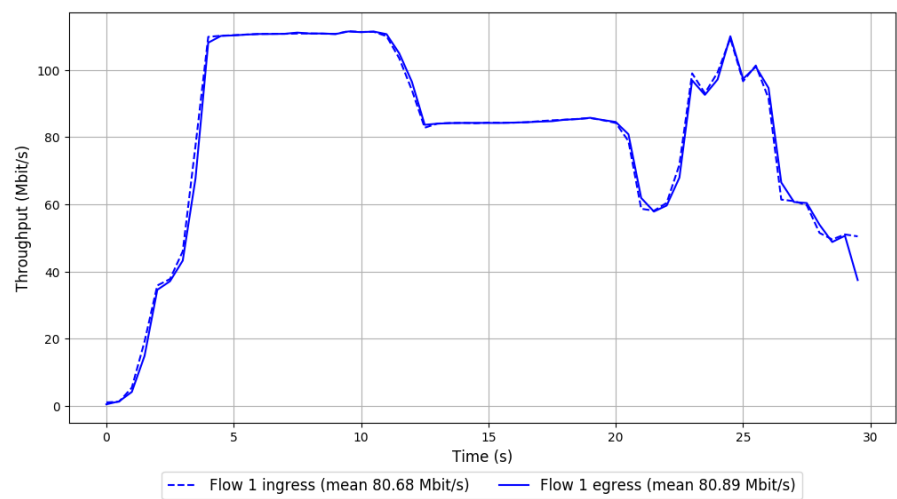
-- Flow 1:

Average throughput: 80.89 Mbit/s

95th percentile per-packet one-way delay: 102.223 ms

Loss rate: 0.48%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-19 17:21:56

End at: 2018-02-19 17:22:26

Below is generated by plot.py at 2018-02-19 22:35:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.79 Mbit/s

95th percentile per-packet one-way delay: 94.728 ms

Loss rate: 0.71%

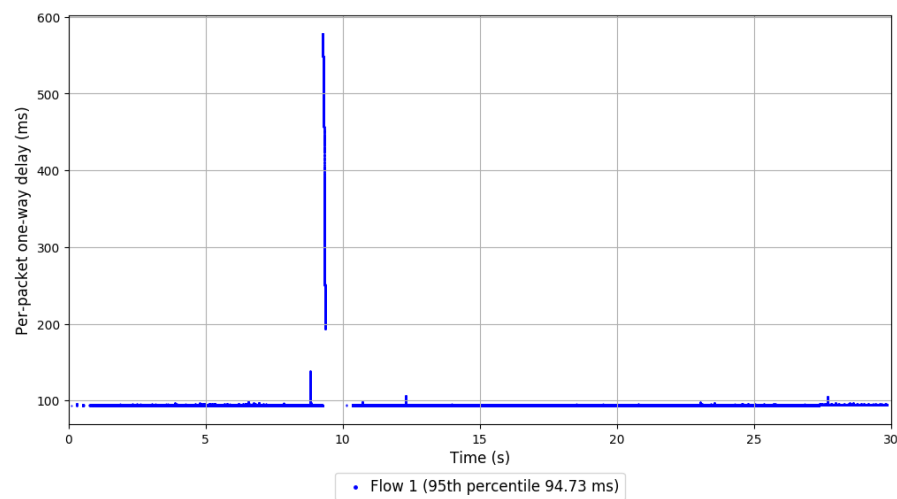
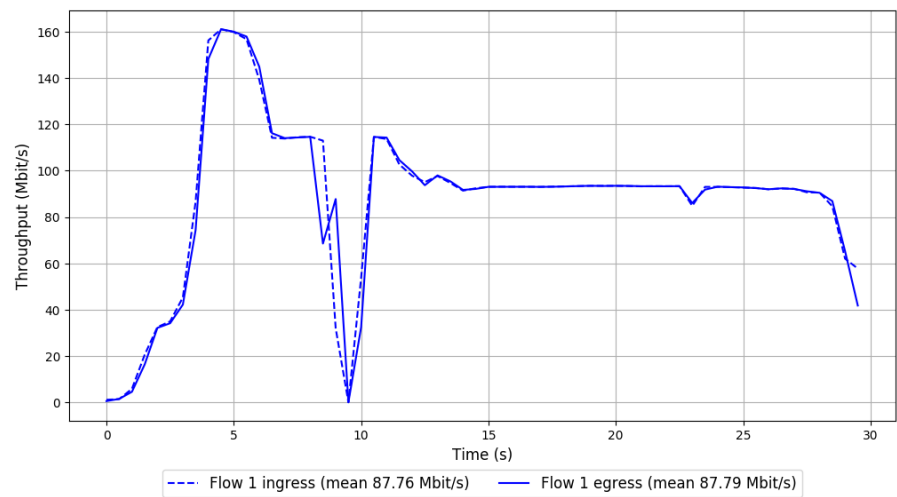
-- Flow 1:

Average throughput: 87.79 Mbit/s

95th percentile per-packet one-way delay: 94.728 ms

Loss rate: 0.71%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-19 17:37:39

End at: 2018-02-19 17:38:09

Below is generated by plot.py at 2018-02-19 22:35:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.79 Mbit/s

95th percentile per-packet one-way delay: 92.812 ms

Loss rate: 0.88%

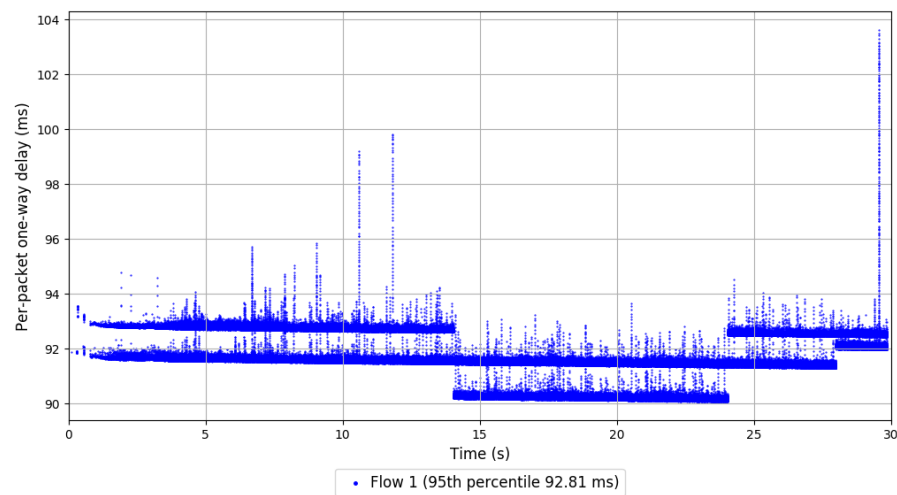
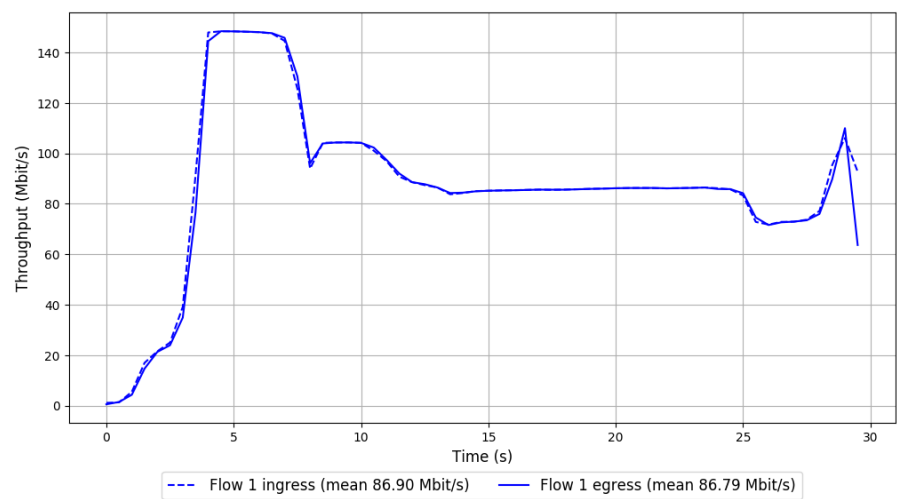
-- Flow 1:

Average throughput: 86.79 Mbit/s

95th percentile per-packet one-way delay: 92.812 ms

Loss rate: 0.88%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-19 17:53:24

End at: 2018-02-19 17:53:54

Below is generated by plot.py at 2018-02-19 22:35:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.92 Mbit/s

95th percentile per-packet one-way delay: 85.333 ms

Loss rate: 0.37%

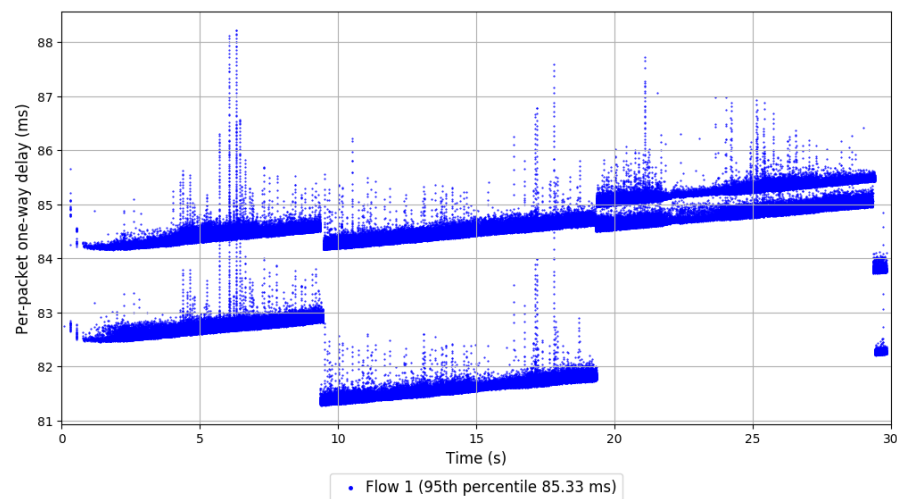
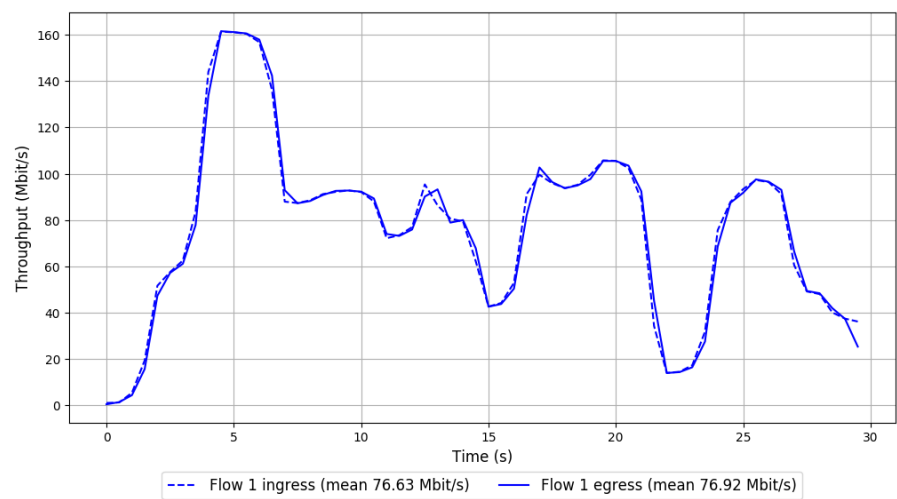
-- Flow 1:

Average throughput: 76.92 Mbit/s

95th percentile per-packet one-way delay: 85.333 ms

Loss rate: 0.37%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-19 18:08:41

End at: 2018-02-19 18:09:11

Below is generated by plot.py at 2018-02-19 22:40:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.03 Mbit/s

95th percentile per-packet one-way delay: 275.379 ms

Loss rate: 23.03%

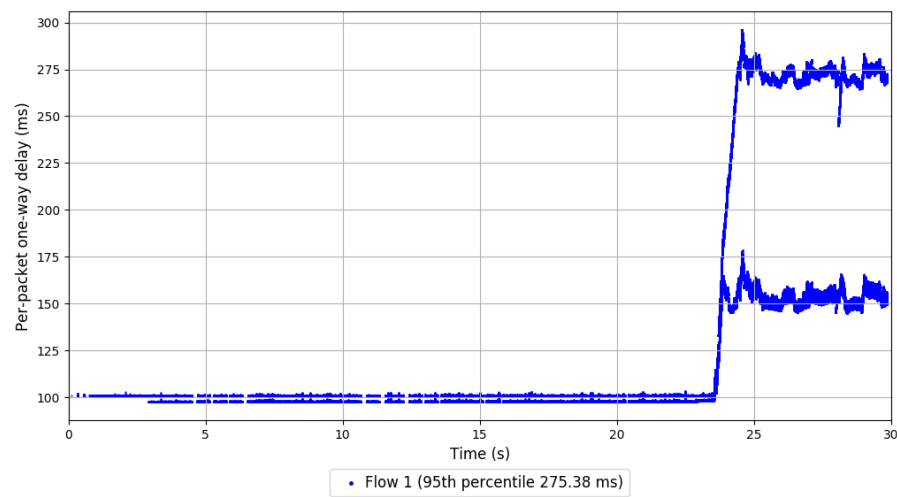
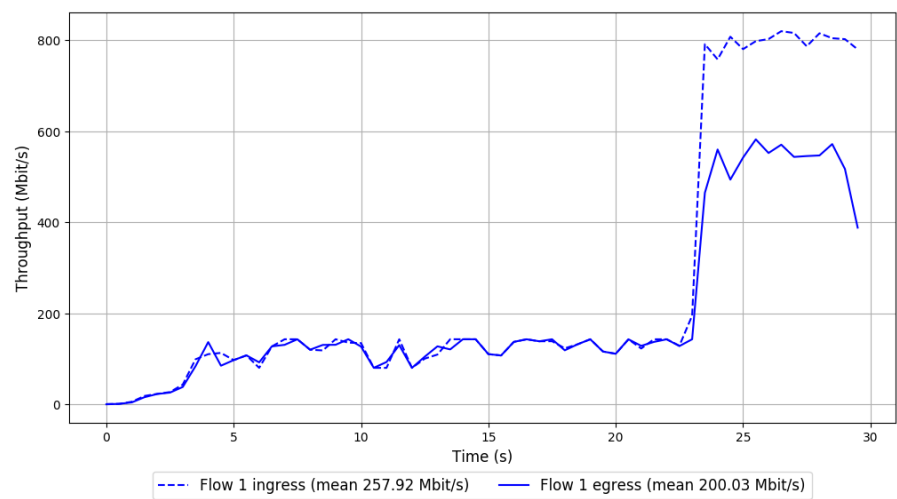
-- Flow 1:

Average throughput: 200.03 Mbit/s

95th percentile per-packet one-way delay: 275.379 ms

Loss rate: 23.03%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-19 18:25:17

End at: 2018-02-19 18:25:47

Below is generated by plot.py at 2018-02-19 22:40:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.16 Mbit/s

95th percentile per-packet one-way delay: 97.753 ms

Loss rate: 0.33%

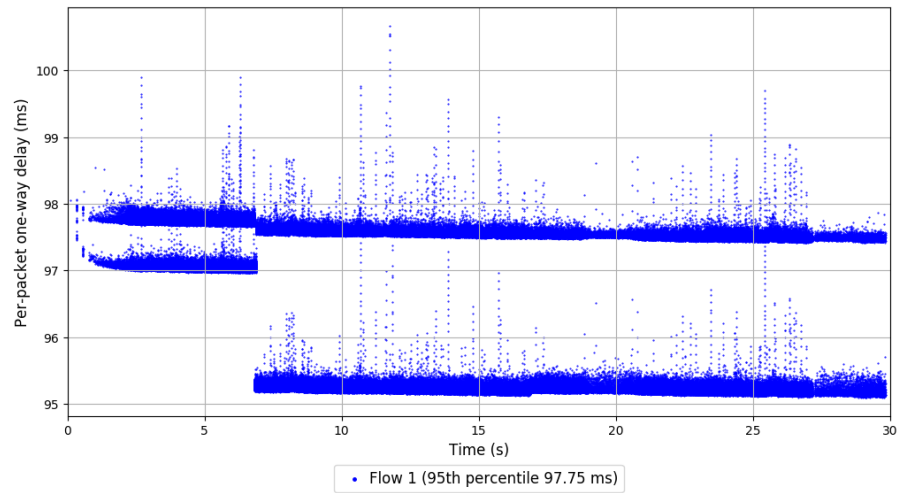
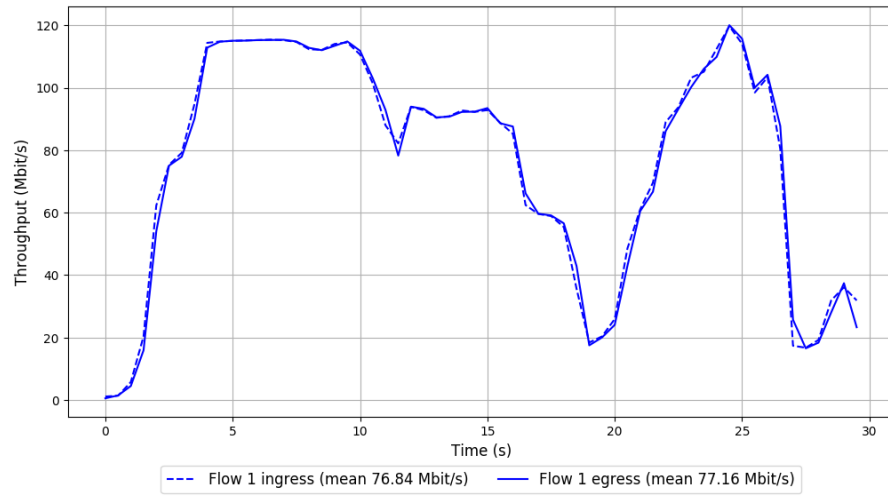
-- Flow 1:

Average throughput: 77.16 Mbit/s

95th percentile per-packet one-way delay: 97.753 ms

Loss rate: 0.33%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-19 18:41:50

End at: 2018-02-19 18:42:20

Below is generated by plot.py at 2018-02-19 22:40:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.44 Mbit/s

95th percentile per-packet one-way delay: 107.591 ms

Loss rate: 0.14%

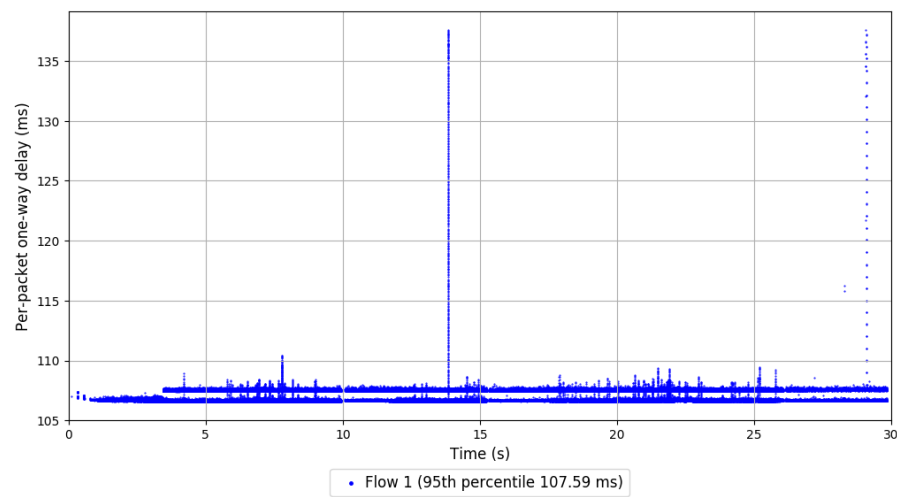
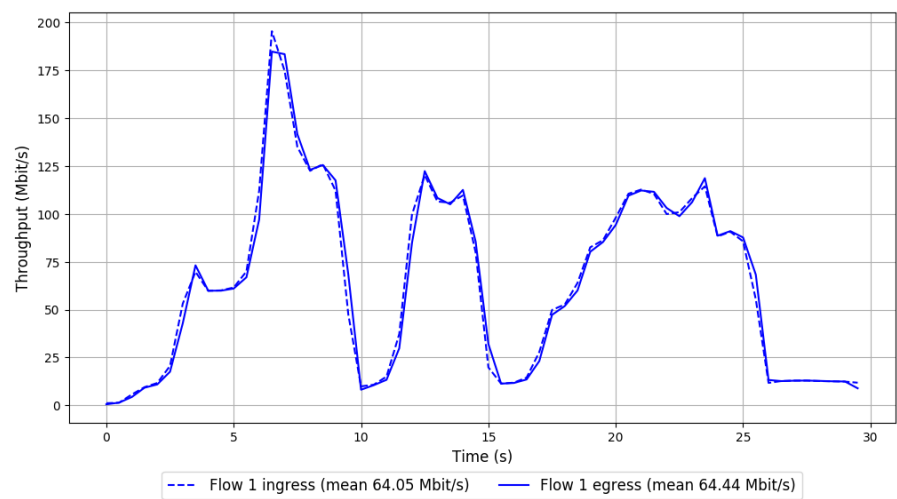
-- Flow 1:

Average throughput: 64.44 Mbit/s

95th percentile per-packet one-way delay: 107.591 ms

Loss rate: 0.14%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-19 18:57:29

End at: 2018-02-19 18:57:59

Below is generated by plot.py at 2018-02-19 22:40:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.23 Mbit/s

95th percentile per-packet one-way delay: 105.582 ms

Loss rate: 0.21%

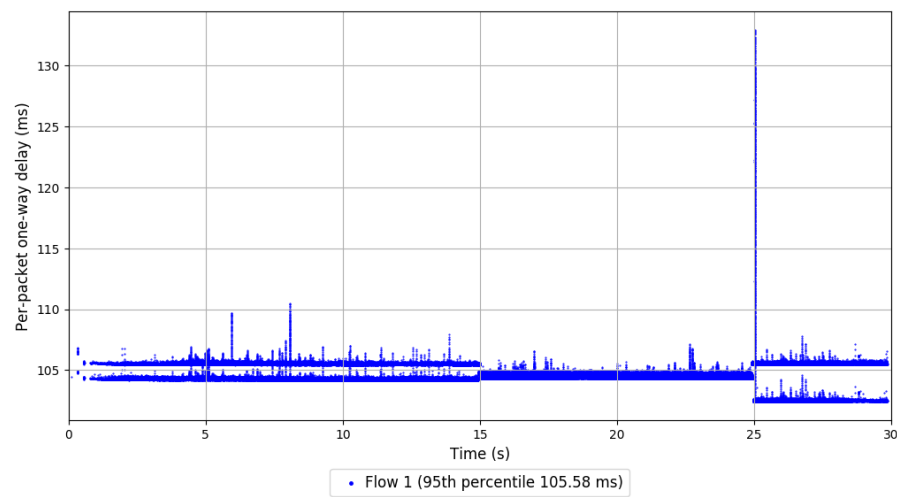
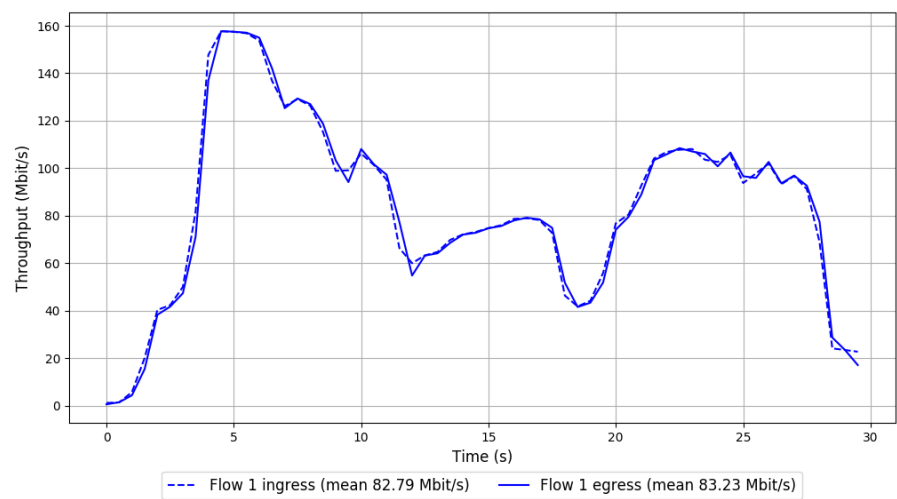
-- Flow 1:

Average throughput: 83.23 Mbit/s

95th percentile per-packet one-way delay: 105.582 ms

Loss rate: 0.21%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-19 19:13:09

End at: 2018-02-19 19:13:39

Below is generated by plot.py at 2018-02-19 22:40:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.41 Mbit/s

95th percentile per-packet one-way delay: 109.553 ms

Loss rate: 0.72%

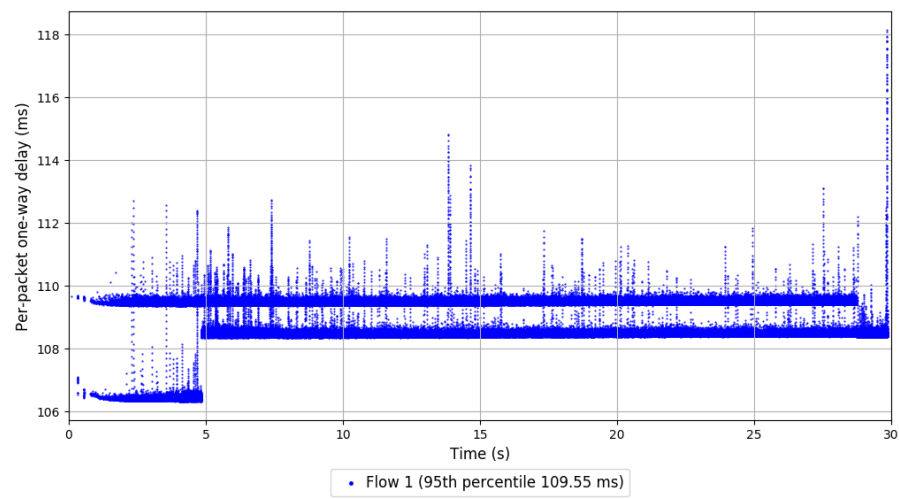
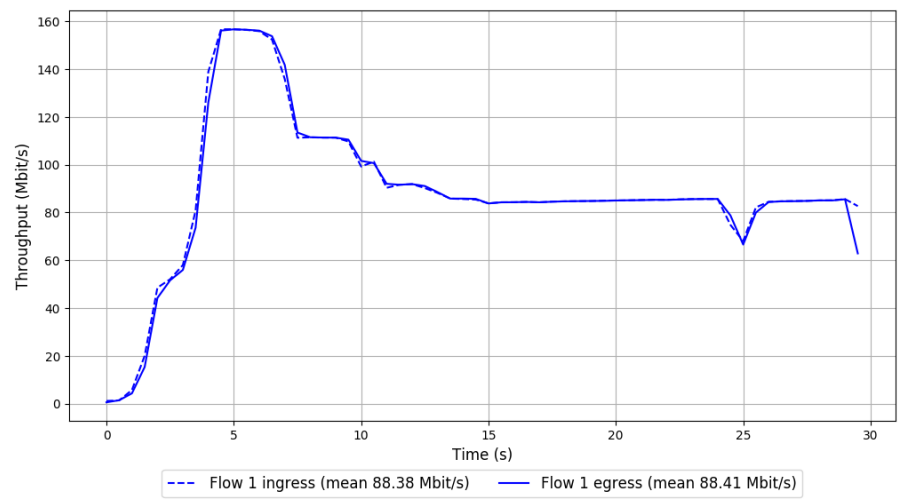
-- Flow 1:

Average throughput: 88.41 Mbit/s

95th percentile per-packet one-way delay: 109.553 ms

Loss rate: 0.72%

Run 10: Report of Copa — Data Link

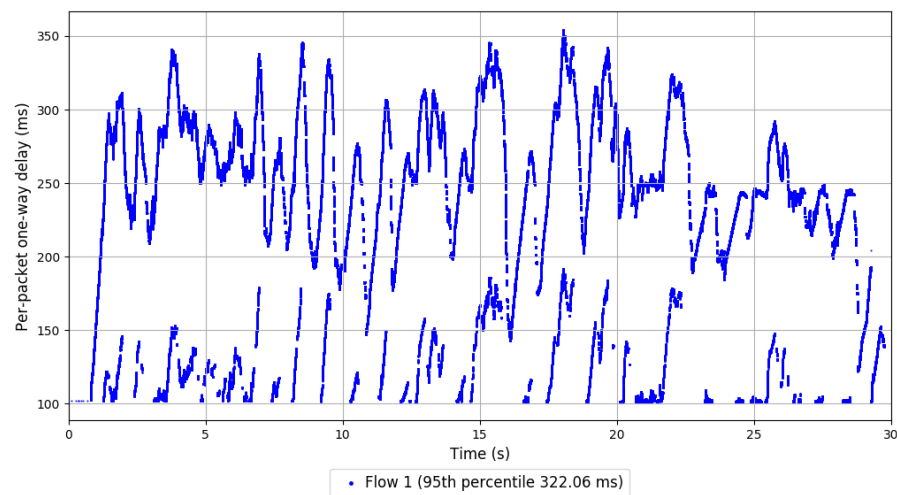
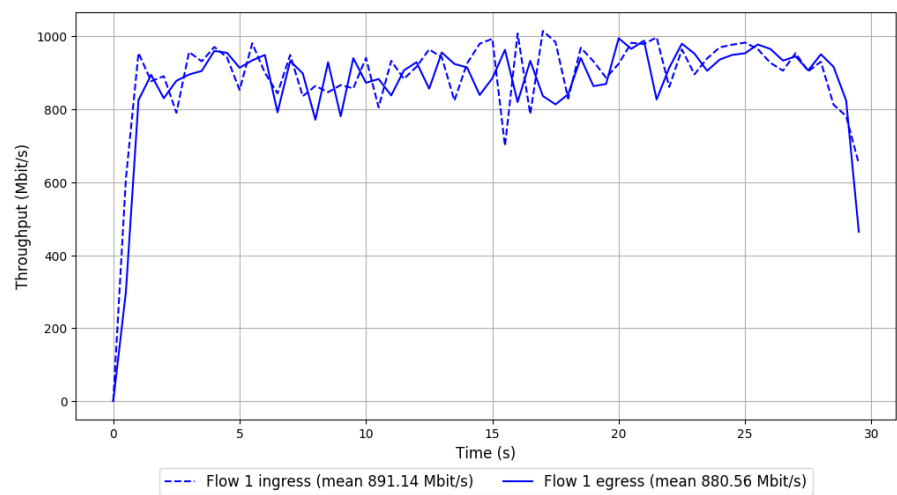


```
Run 1: Statistics of FillP

Start at: 2018-02-19 16:56:54
End at: 2018-02-19 16:57:24

# Below is generated by plot.py at 2018-02-19 22:51:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 880.56 Mbit/s
95th percentile per-packet one-way delay: 322.063 ms
Loss rate: 1.93%
-- Flow 1:
Average throughput: 880.56 Mbit/s
95th percentile per-packet one-way delay: 322.063 ms
Loss rate: 1.93%
```


Run 1: Report of FillP — Data Link

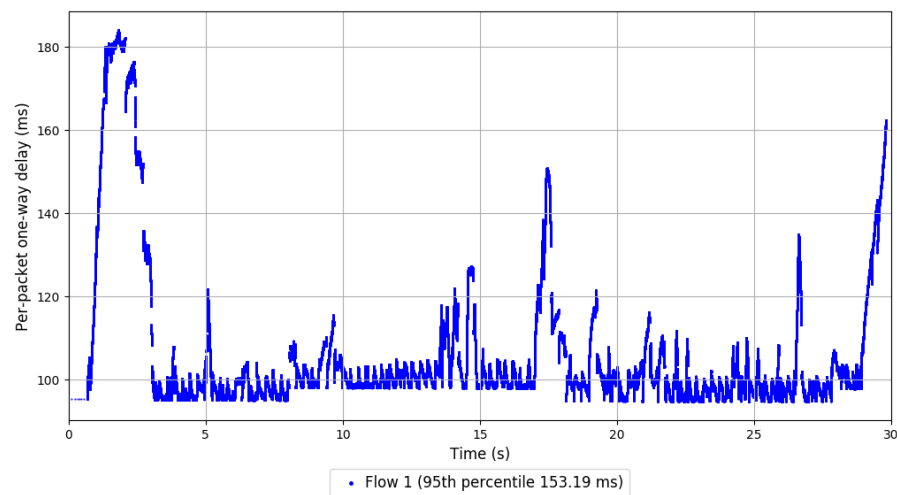
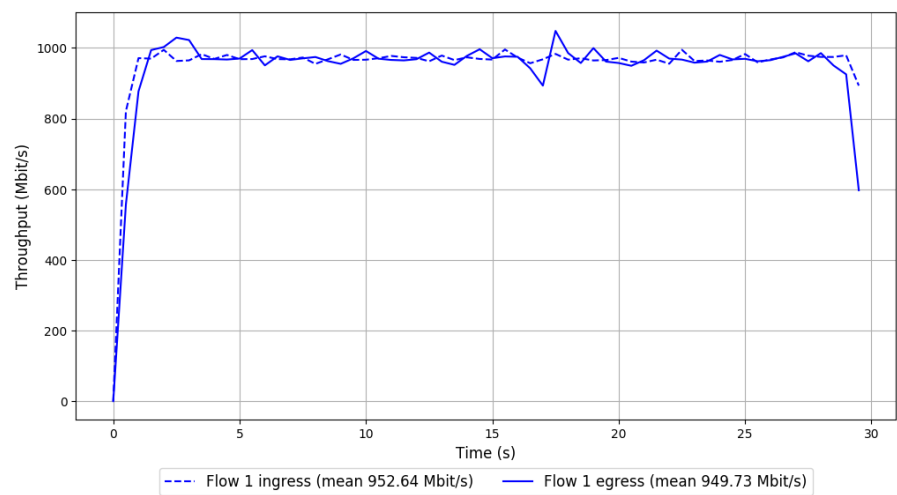


```
Run 2: Statistics of FillP

Start at: 2018-02-19 17:12:35
End at: 2018-02-19 17:13:05

# Below is generated by plot.py at 2018-02-19 22:51:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 949.73 Mbit/s
95th percentile per-packet one-way delay: 153.187 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 949.73 Mbit/s
95th percentile per-packet one-way delay: 153.187 ms
Loss rate: 1.05%
```

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

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

End at: 2018-02-19 17:28:47

Below is generated by plot.py at 2018-02-19 22:52:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 952.19 Mbit/s

95th percentile per-packet one-way delay: 273.897 ms

Loss rate: 1.69%

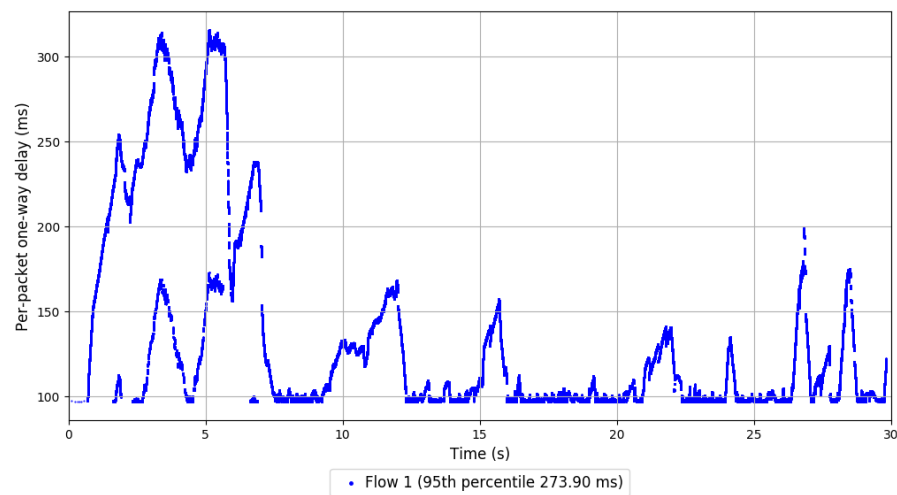
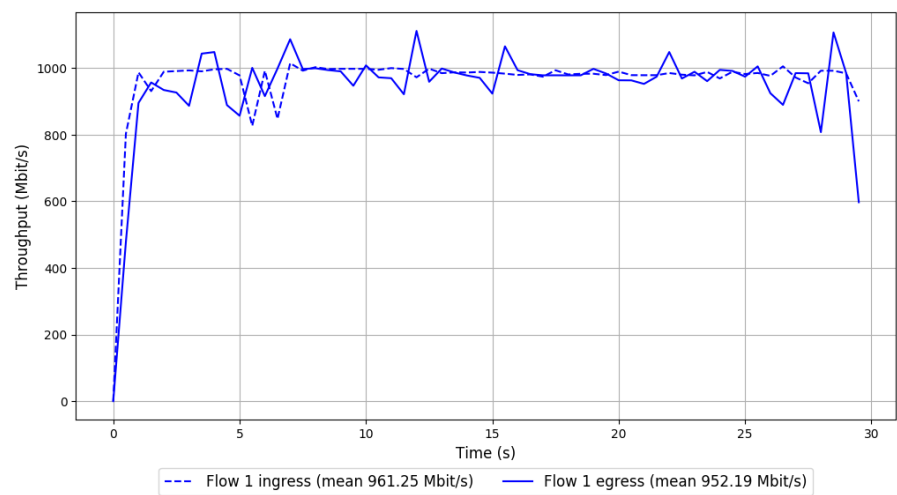
-- Flow 1:

Average throughput: 952.19 Mbit/s

95th percentile per-packet one-way delay: 273.897 ms

Loss rate: 1.69%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-19 17:44:08

End at: 2018-02-19 17:44:38

Below is generated by plot.py at 2018-02-19 22:52:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 948.91 Mbit/s

95th percentile per-packet one-way delay: 200.470 ms

Loss rate: 1.03%

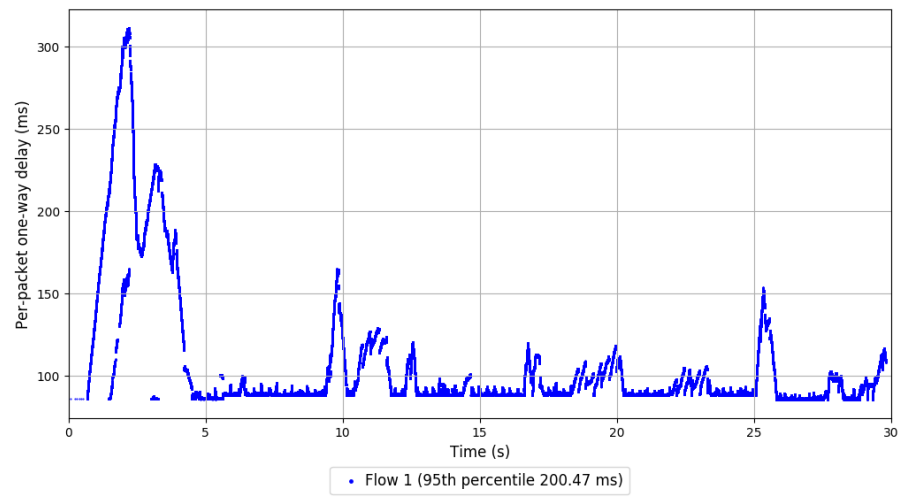
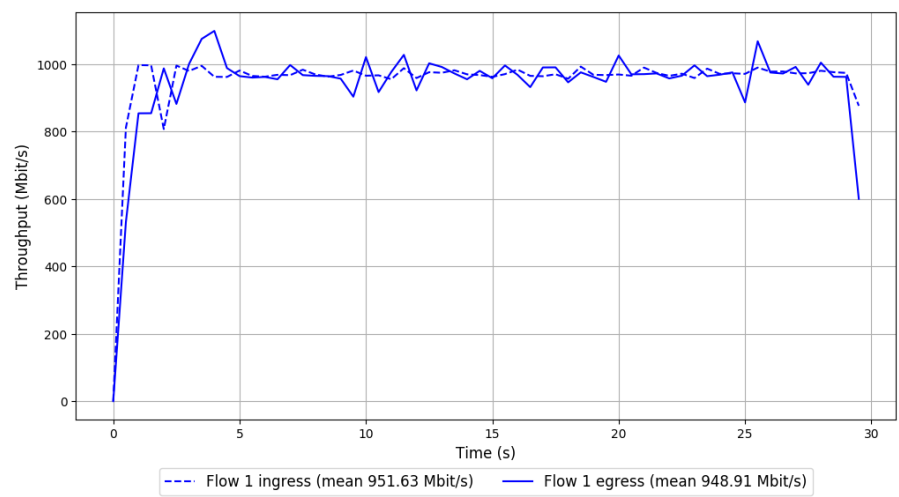
-- Flow 1:

Average throughput: 948.91 Mbit/s

95th percentile per-packet one-way delay: 200.470 ms

Loss rate: 1.03%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-19 17:59:50

End at: 2018-02-19 18:00:20

Below is generated by plot.py at 2018-02-19 22:52:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 948.35 Mbit/s

95th percentile per-packet one-way delay: 114.550 ms

Loss rate: 0.78%

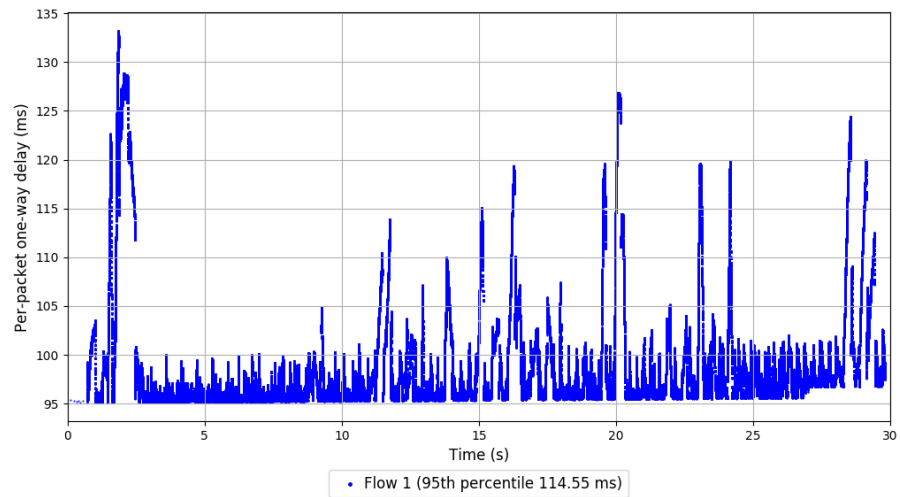
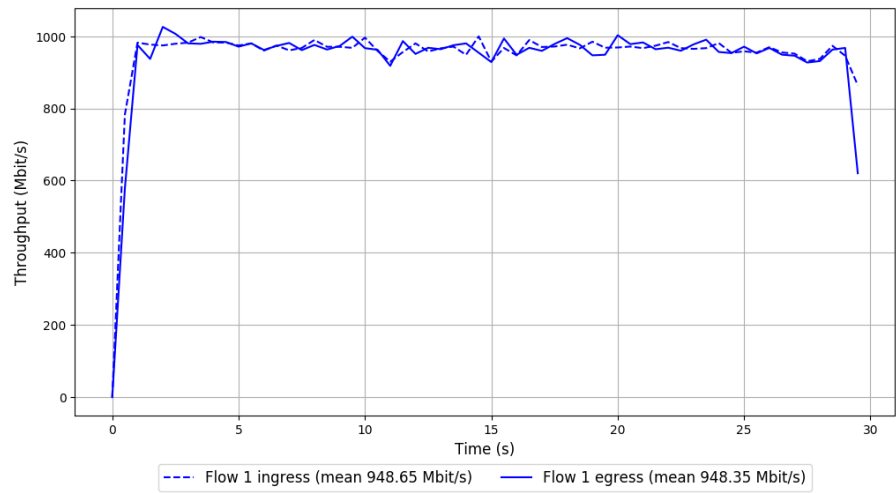
-- Flow 1:

Average throughput: 948.35 Mbit/s

95th percentile per-packet one-way delay: 114.550 ms

Loss rate: 0.78%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-19 18:15:09

End at: 2018-02-19 18:15:39

Below is generated by plot.py at 2018-02-19 22:52:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 918.47 Mbit/s

95th percentile per-packet one-way delay: 237.292 ms

Loss rate: 0.84%

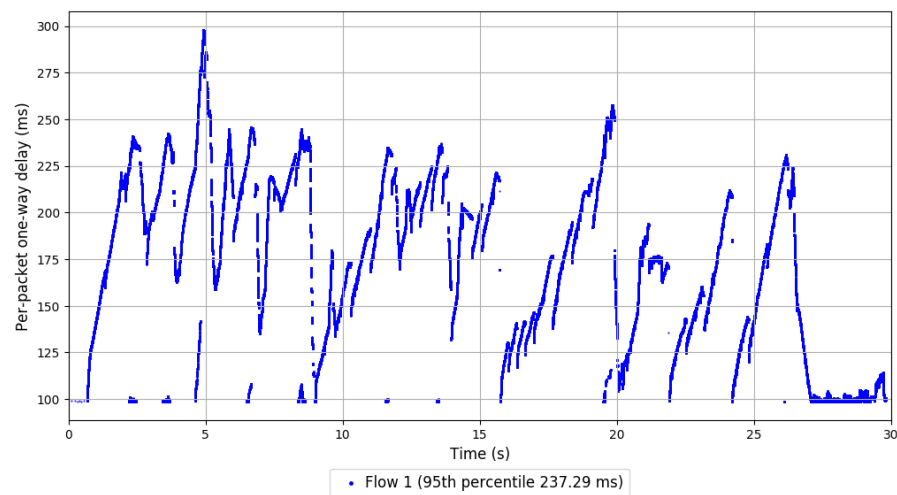
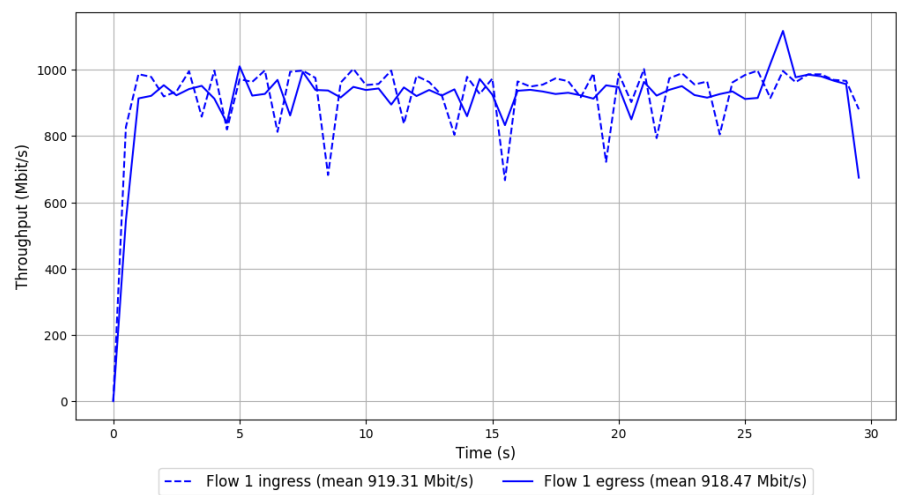
-- Flow 1:

Average throughput: 918.47 Mbit/s

95th percentile per-packet one-way delay: 237.292 ms

Loss rate: 0.84%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-19 18:31:46

End at: 2018-02-19 18:32:16

Below is generated by plot.py at 2018-02-19 22:54:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 941.18 Mbit/s

95th percentile per-packet one-way delay: 152.982 ms

Loss rate: 1.06%

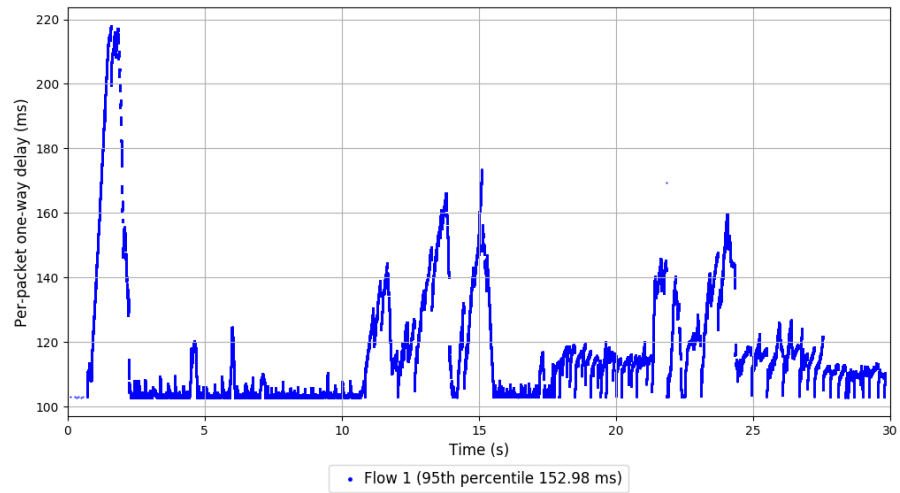
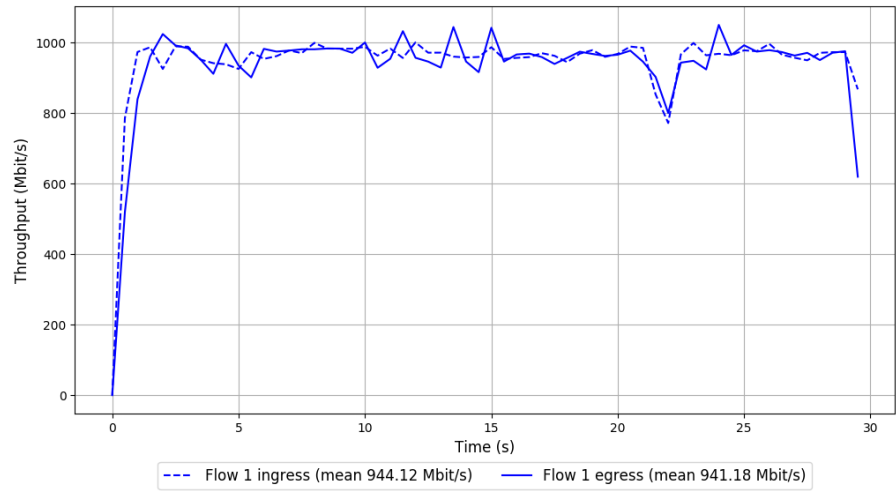
-- Flow 1:

Average throughput: 941.18 Mbit/s

95th percentile per-packet one-way delay: 152.982 ms

Loss rate: 1.06%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-19 18:48:08

End at: 2018-02-19 18:48:38

Below is generated by plot.py at 2018-02-19 22:58:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 909.31 Mbit/s

95th percentile per-packet one-way delay: 314.752 ms

Loss rate: 2.45%

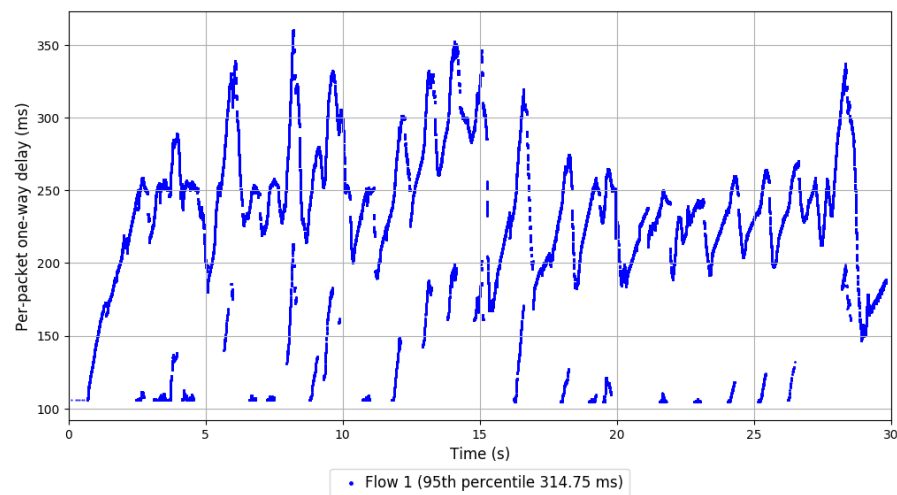
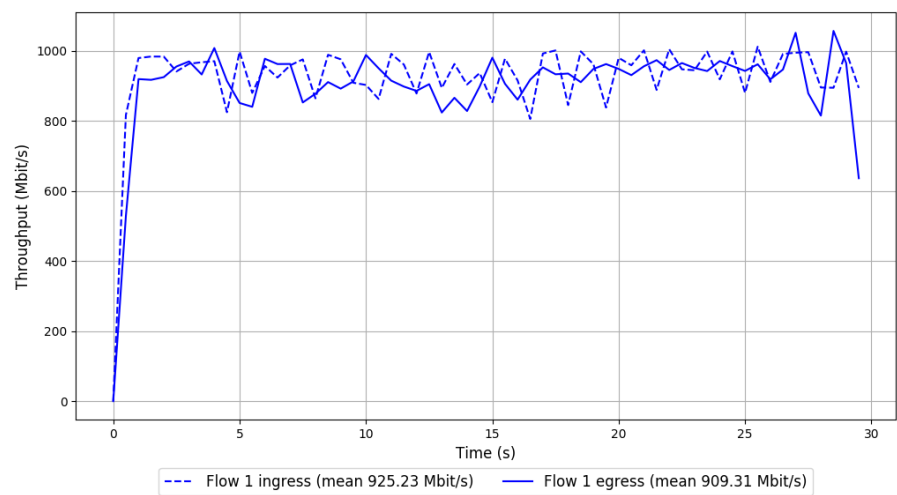
-- Flow 1:

Average throughput: 909.31 Mbit/s

95th percentile per-packet one-way delay: 314.752 ms

Loss rate: 2.45%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-19 19:03:43

End at: 2018-02-19 19:04:13

Below is generated by plot.py at 2018-02-19 23:07:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 954.55 Mbit/s

95th percentile per-packet one-way delay: 157.162 ms

Loss rate: 0.93%

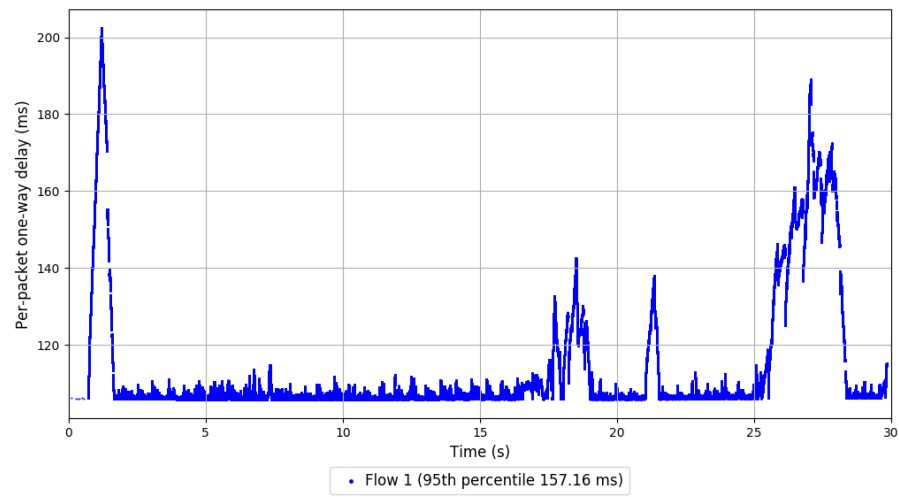
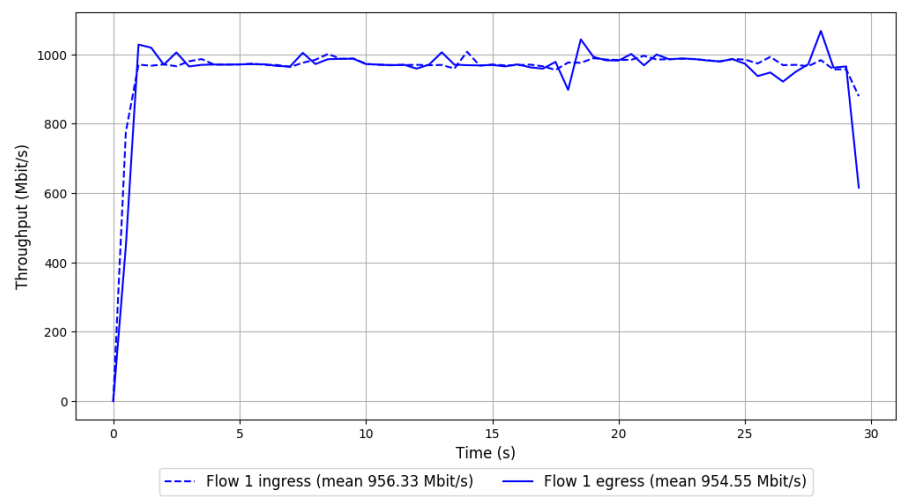
-- Flow 1:

Average throughput: 954.55 Mbit/s

95th percentile per-packet one-way delay: 157.162 ms

Loss rate: 0.93%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

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

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

Below is generated by plot.py at 2018-02-19 23:09:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 960.03 Mbit/s

95th percentile per-packet one-way delay: 140.999 ms

Loss rate: 0.98%

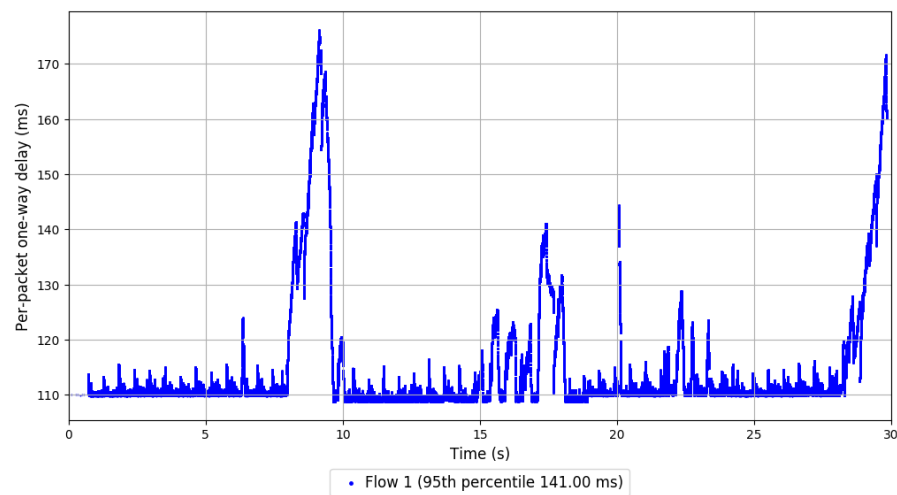
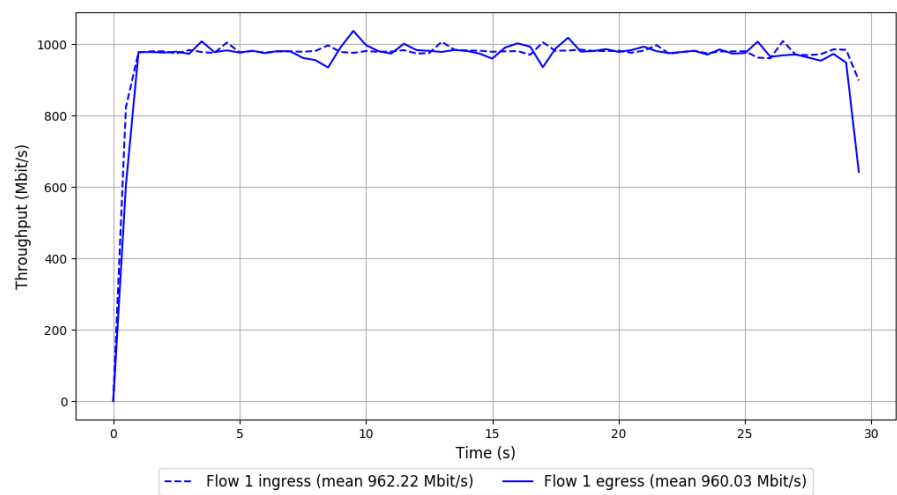
-- Flow 1:

Average throughput: 960.03 Mbit/s

95th percentile per-packet one-way delay: 140.999 ms

Loss rate: 0.98%

Run 10: Report of FillP — Data Link

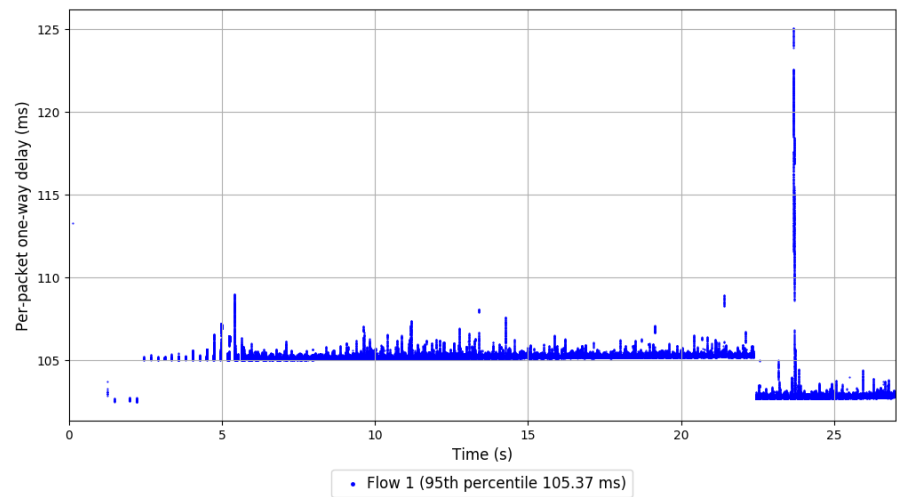
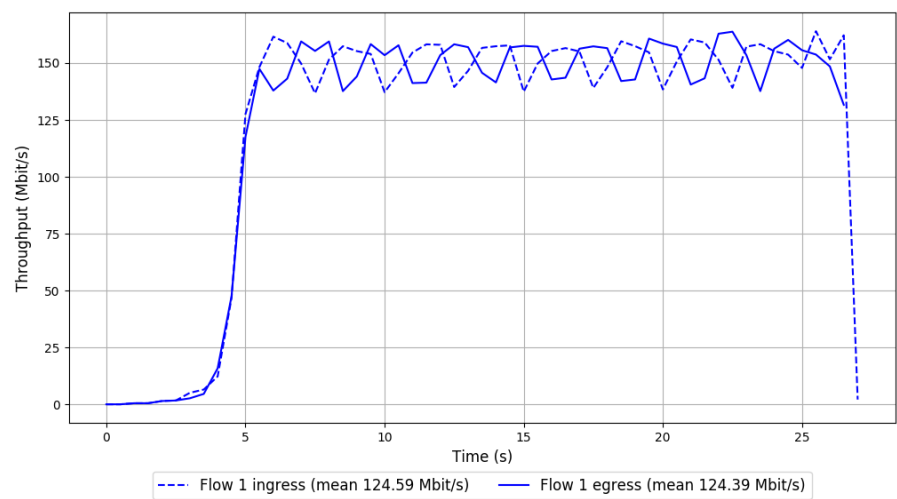


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-19 16:53:48
End at: 2018-02-19 16:54:18

# Below is generated by plot.py at 2018-02-19 23:09:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 124.39 Mbit/s
95th percentile per-packet one-way delay: 105.371 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 124.39 Mbit/s
95th percentile per-packet one-way delay: 105.371 ms
Loss rate: 1.03%
```

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-02-19 17:09:23

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

Below is generated by plot.py at 2018-02-19 23:09:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 162.76 Mbit/s

95th percentile per-packet one-way delay: 98.197 ms

Loss rate: 0.80%

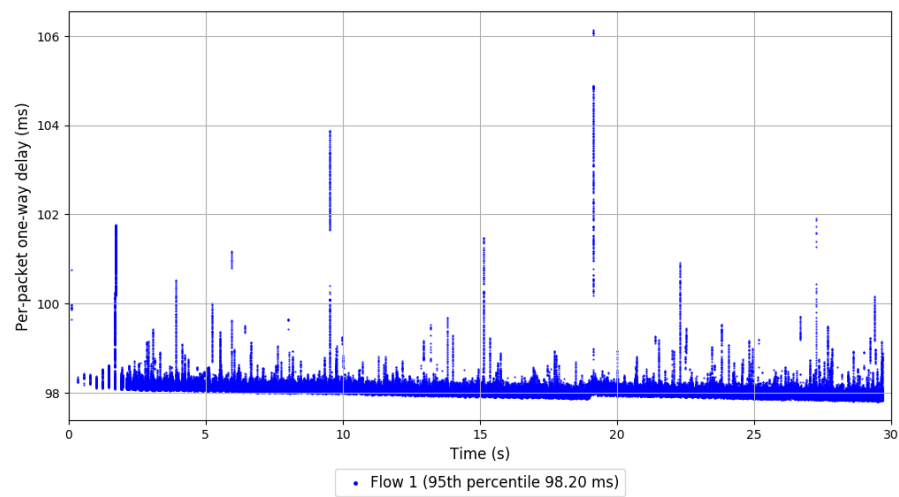
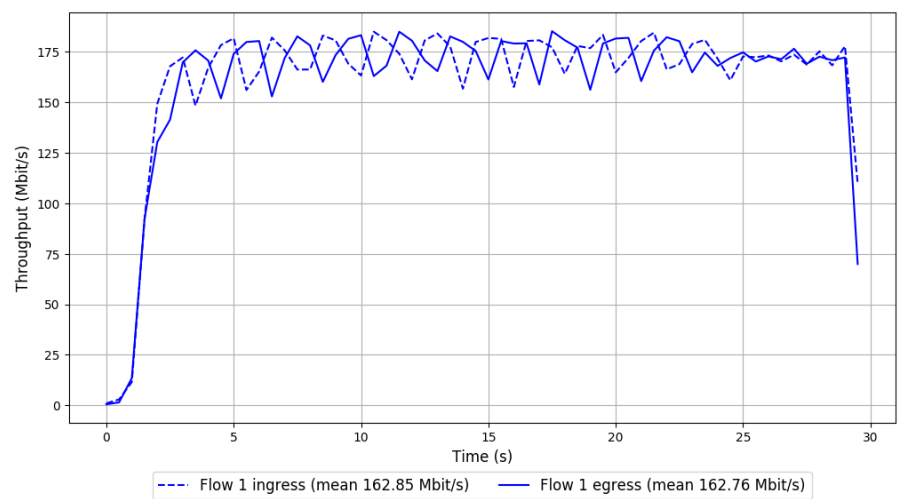
-- Flow 1:

Average throughput: 162.76 Mbit/s

95th percentile per-packet one-way delay: 98.197 ms

Loss rate: 0.80%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-19 17:25:06

End at: 2018-02-19 17:25:36

Below is generated by plot.py at 2018-02-19 23:09:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.03 Mbit/s

95th percentile per-packet one-way delay: 95.925 ms

Loss rate: 0.73%

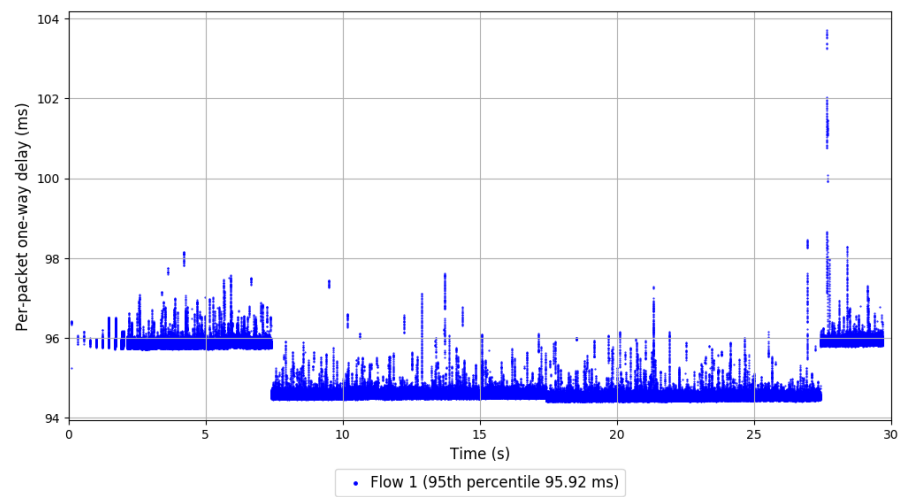
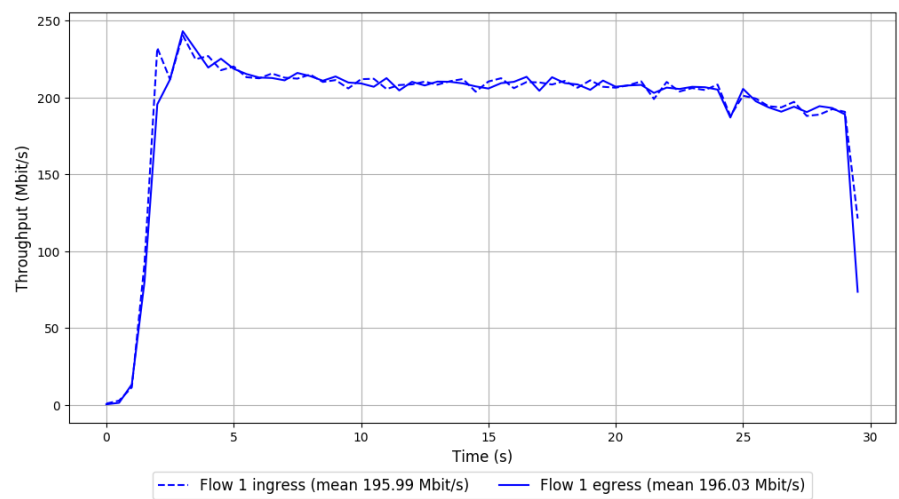
-- Flow 1:

Average throughput: 196.03 Mbit/s

95th percentile per-packet one-way delay: 95.925 ms

Loss rate: 0.73%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-19 17:40:56

End at: 2018-02-19 17:41:26

Below is generated by plot.py at 2018-02-19 23:09:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.40 Mbit/s

95th percentile per-packet one-way delay: 90.398 ms

Loss rate: 0.71%

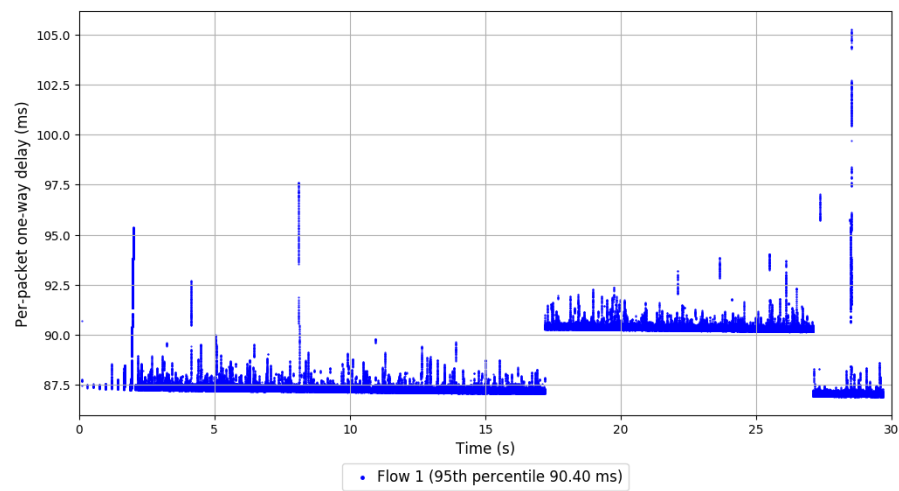
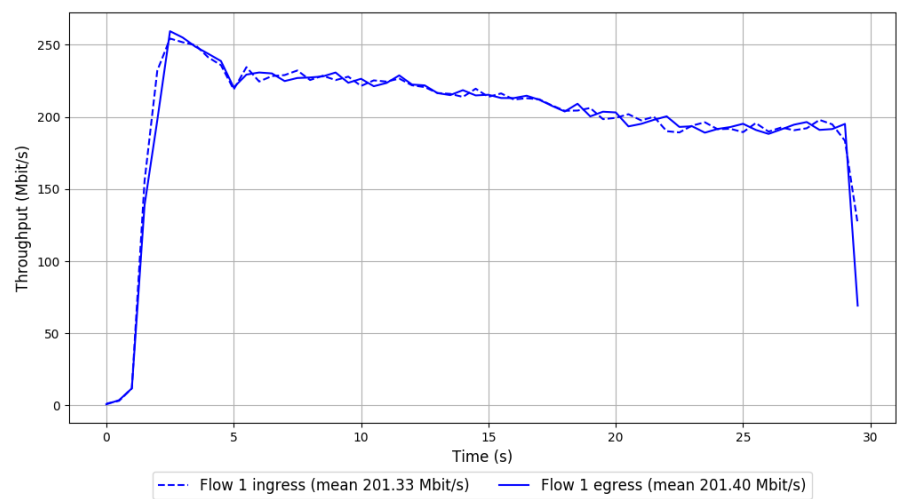
-- Flow 1:

Average throughput: 201.40 Mbit/s

95th percentile per-packet one-way delay: 90.398 ms

Loss rate: 0.71%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-19 17:56:40

End at: 2018-02-19 17:57:10

Below is generated by plot.py at 2018-02-19 23:09:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.93 Mbit/s

95th percentile per-packet one-way delay: 89.292 ms

Loss rate: 0.79%

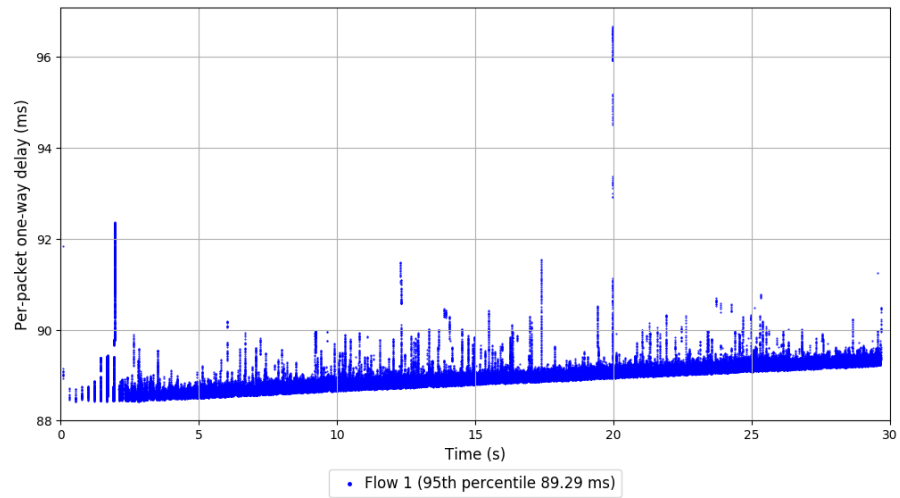
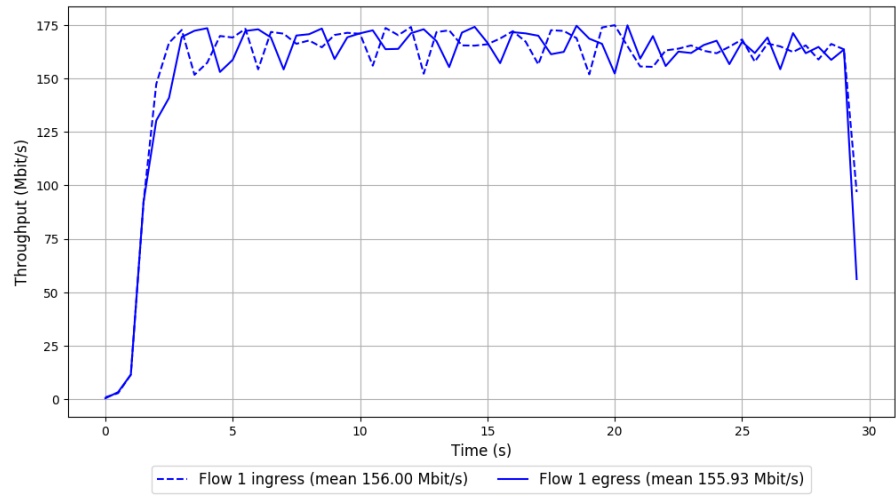
-- Flow 1:

Average throughput: 155.93 Mbit/s

95th percentile per-packet one-way delay: 89.292 ms

Loss rate: 0.79%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-19 18:12:00

End at: 2018-02-19 18:12:30

Below is generated by plot.py at 2018-02-19 23:09:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.46 Mbit/s

95th percentile per-packet one-way delay: 101.045 ms

Loss rate: 0.79%

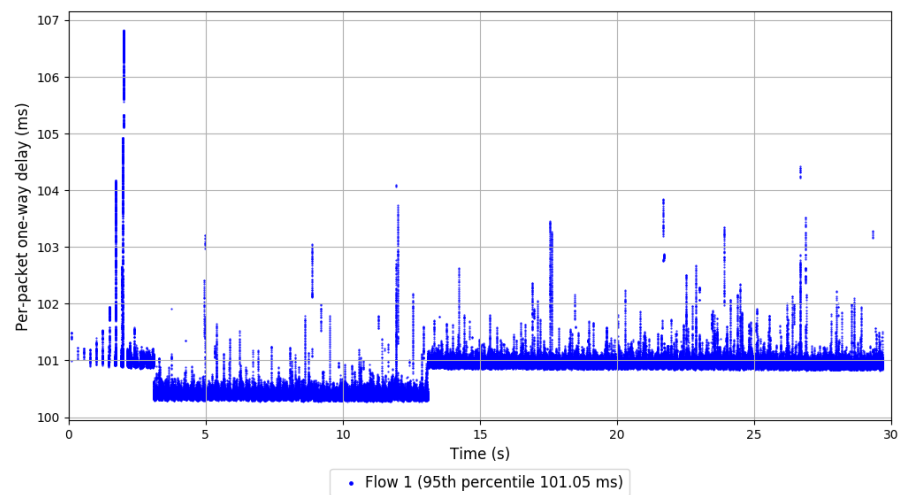
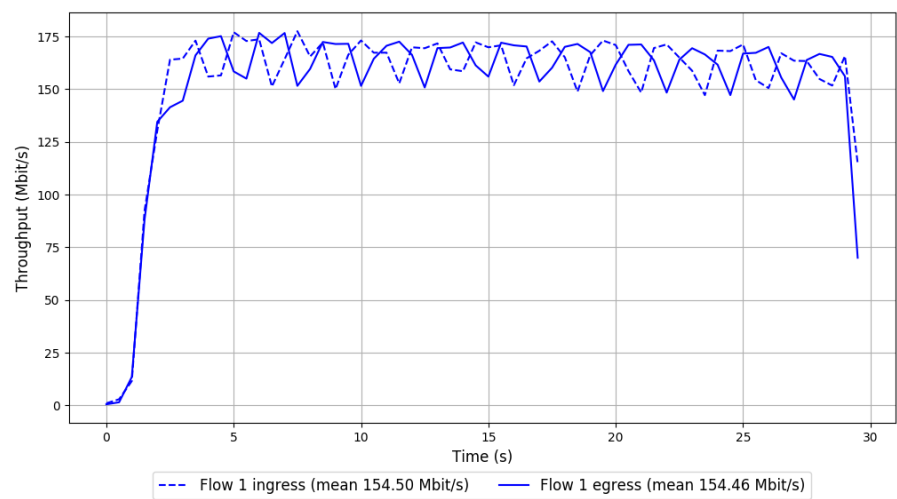
-- Flow 1:

Average throughput: 154.46 Mbit/s

95th percentile per-packet one-way delay: 101.045 ms

Loss rate: 0.79%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-19 18:28:38

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

Below is generated by plot.py at 2018-02-19 23:09:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.79 Mbit/s

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

Loss rate: 0.81%

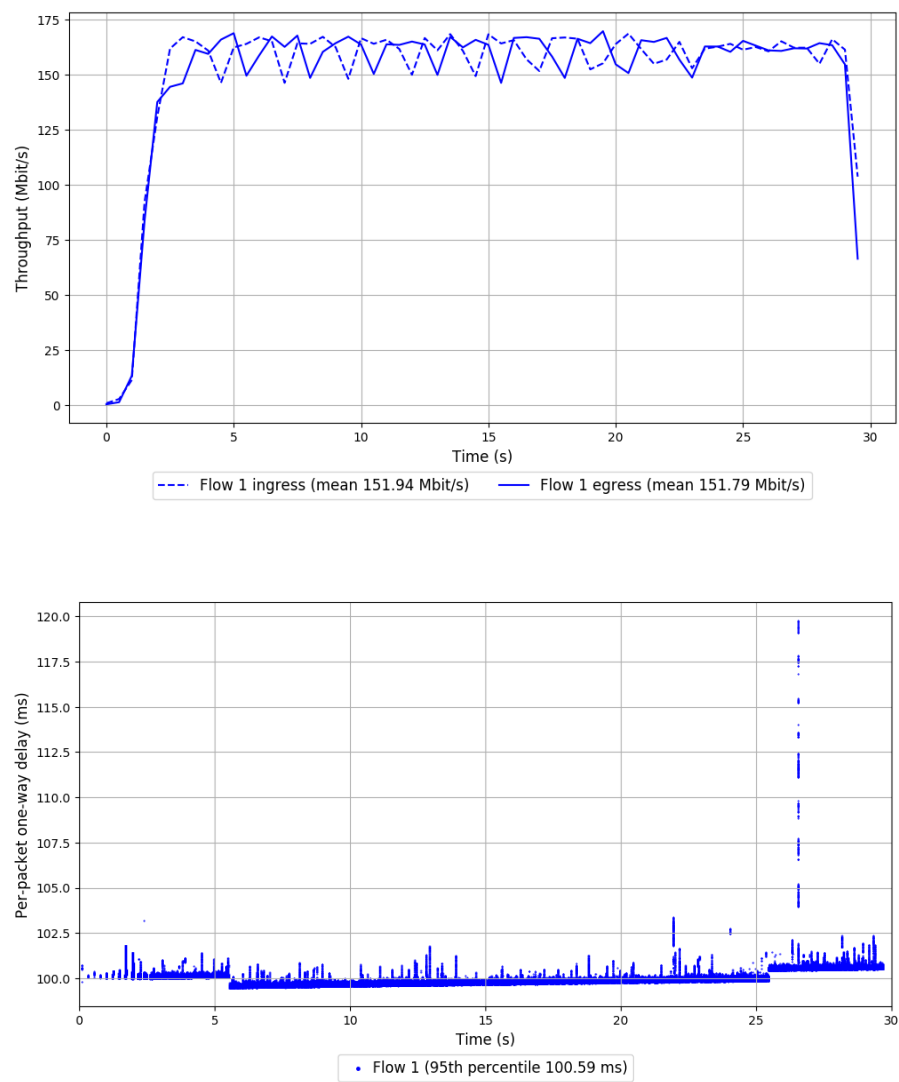
-- Flow 1:

Average throughput: 151.79 Mbit/s

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

Loss rate: 0.81%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-19 18:45:00

End at: 2018-02-19 18:45:30

Below is generated by plot.py at 2018-02-19 23:09:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.59 Mbit/s

95th percentile per-packet one-way delay: 105.777 ms

Loss rate: 0.76%

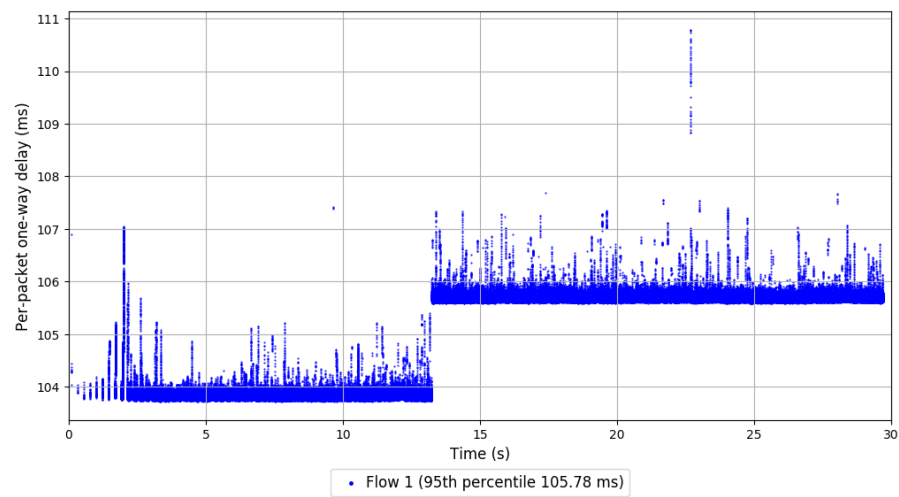
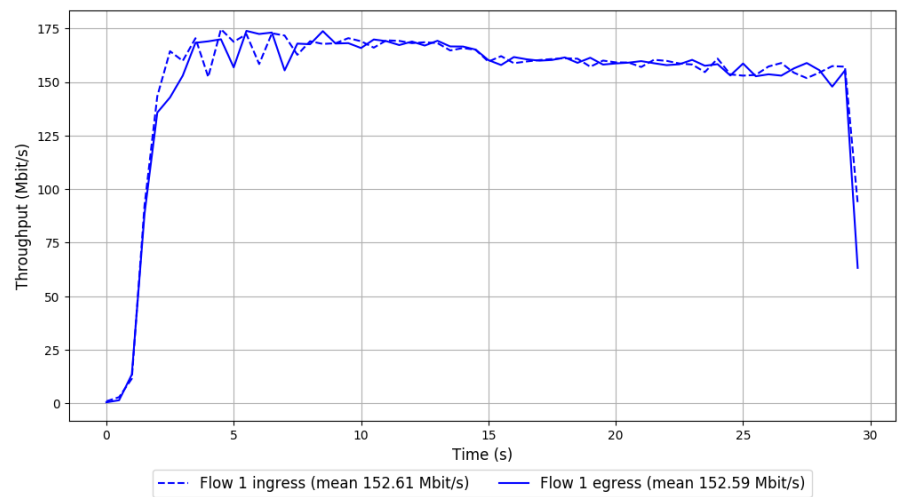
-- Flow 1:

Average throughput: 152.59 Mbit/s

95th percentile per-packet one-way delay: 105.777 ms

Loss rate: 0.76%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-19 19:00:34

End at: 2018-02-19 19:01:04

Below is generated by plot.py at 2018-02-19 23:09:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.32 Mbit/s

95th percentile per-packet one-way delay: 105.135 ms

Loss rate: 0.79%

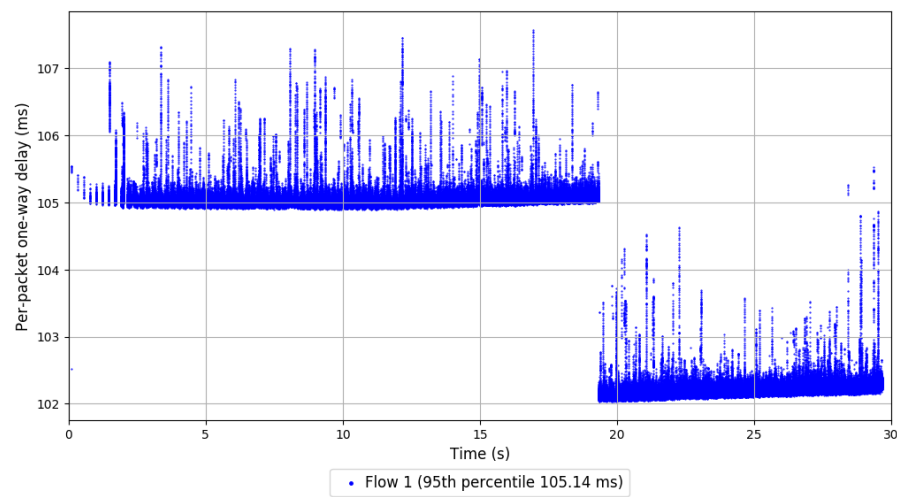
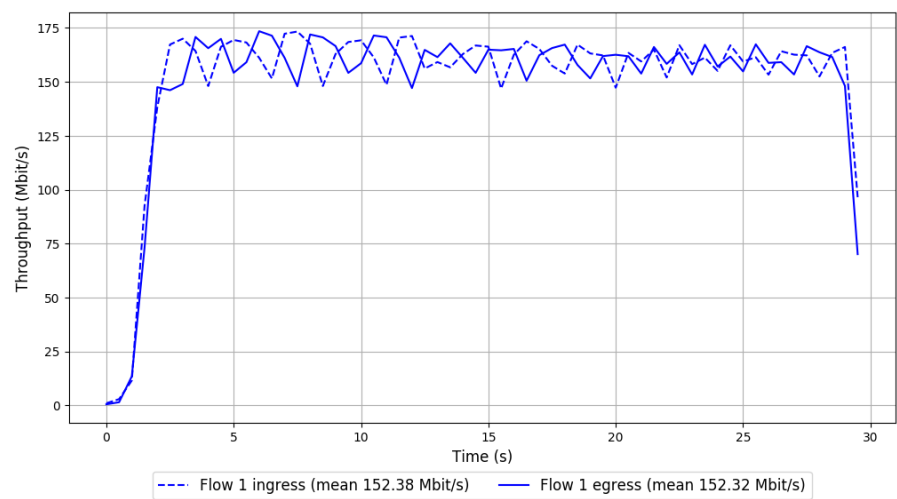
-- Flow 1:

Average throughput: 152.32 Mbit/s

95th percentile per-packet one-way delay: 105.135 ms

Loss rate: 0.79%

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



Run 10: Statistics of Indigo-1-32

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

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

Below is generated by plot.py at 2018-02-19 23:09:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.90 Mbit/s

95th percentile per-packet one-way delay: 106.848 ms

Loss rate: 0.77%

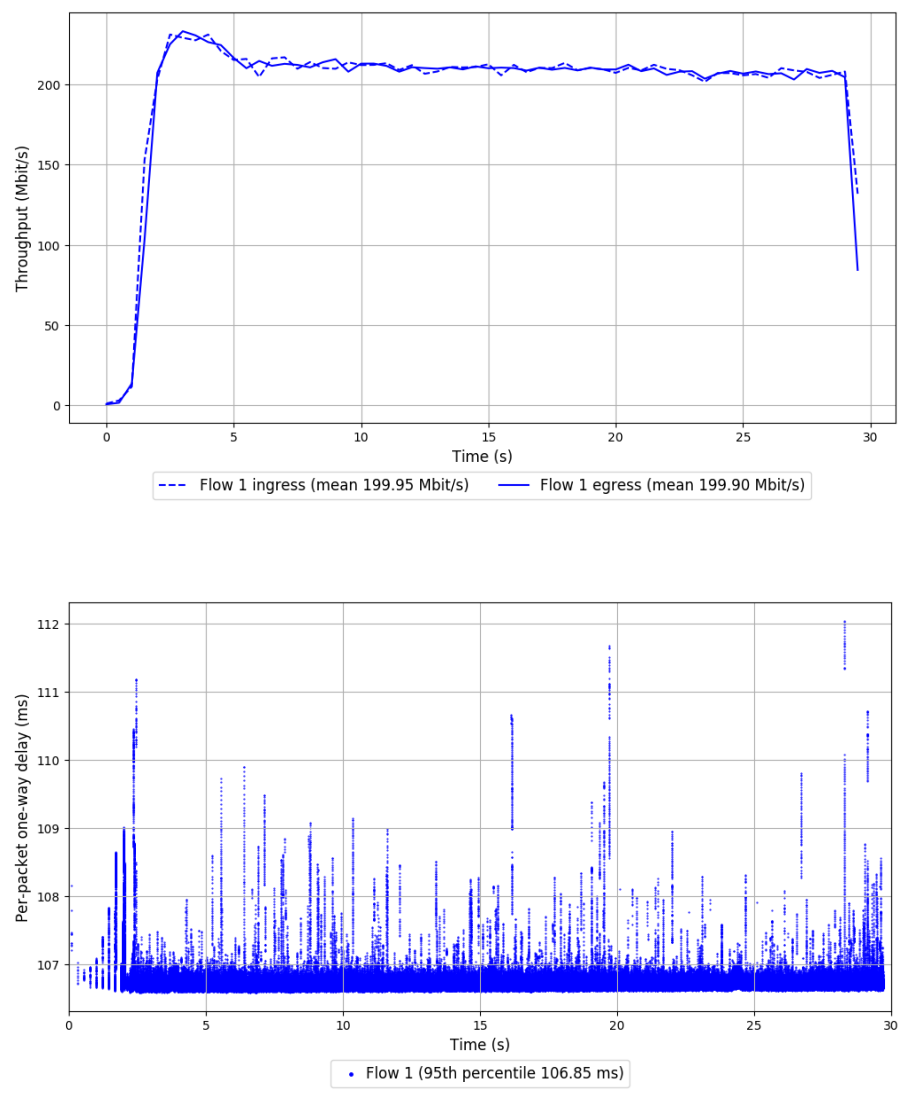
-- Flow 1:

Average throughput: 199.90 Mbit/s

95th percentile per-packet one-way delay: 106.848 ms

Loss rate: 0.77%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-02-19 16:58:12

End at: 2018-02-19 16:58:42

Below is generated by plot.py at 2018-02-19 23:09:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 339.33 Mbit/s

95th percentile per-packet one-way delay: 101.349 ms

Loss rate: 0.89%

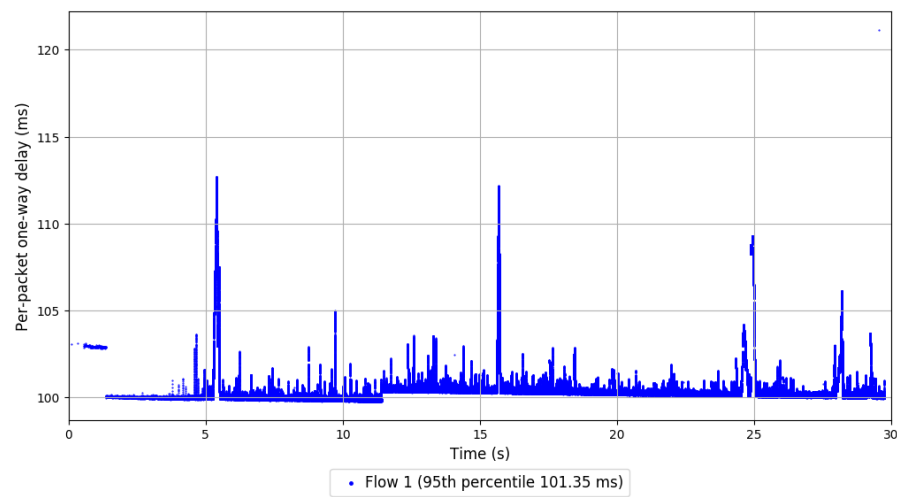
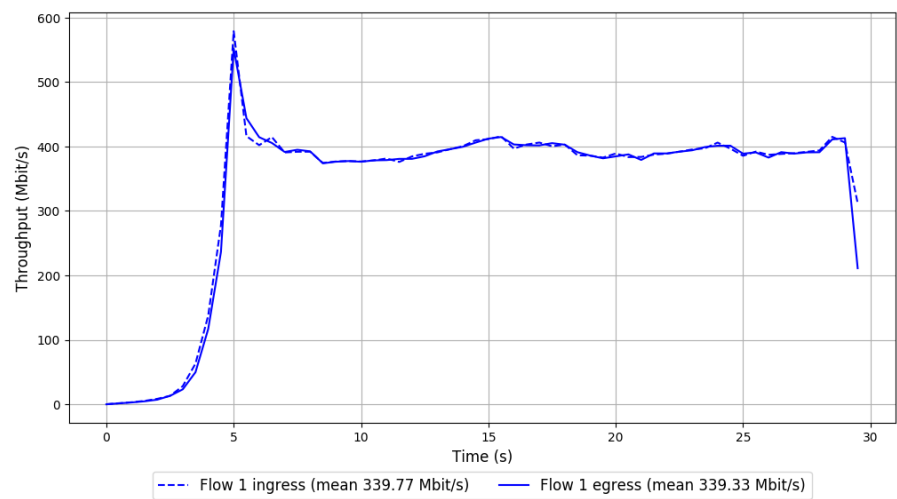
-- Flow 1:

Average throughput: 339.33 Mbit/s

95th percentile per-packet one-way delay: 101.349 ms

Loss rate: 0.89%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-19 17:13:52

End at: 2018-02-19 17:14:22

Below is generated by plot.py at 2018-02-19 23:09:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 398.50 Mbit/s

95th percentile per-packet one-way delay: 100.351 ms

Loss rate: 0.94%

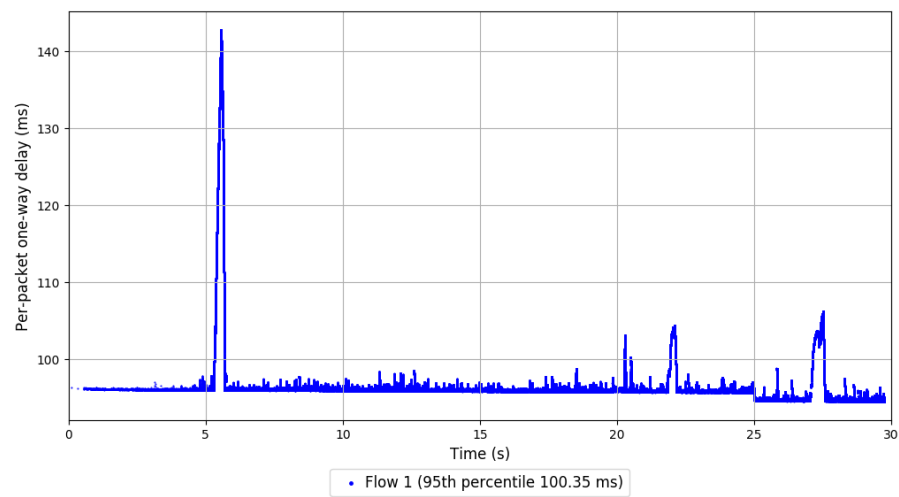
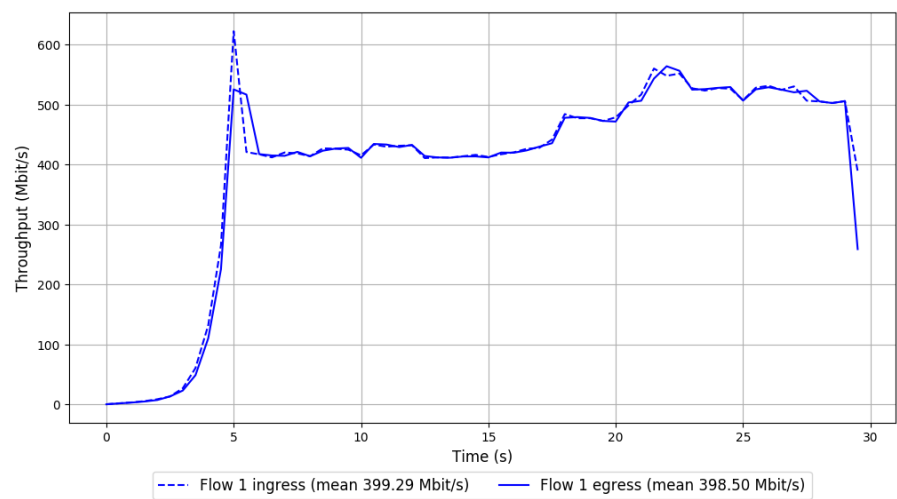
-- Flow 1:

Average throughput: 398.50 Mbit/s

95th percentile per-packet one-way delay: 100.351 ms

Loss rate: 0.94%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-19 17:29:35

End at: 2018-02-19 17:30:05

Below is generated by plot.py at 2018-02-19 23:09:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 356.32 Mbit/s

95th percentile per-packet one-way delay: 97.947 ms

Loss rate: 1.29%

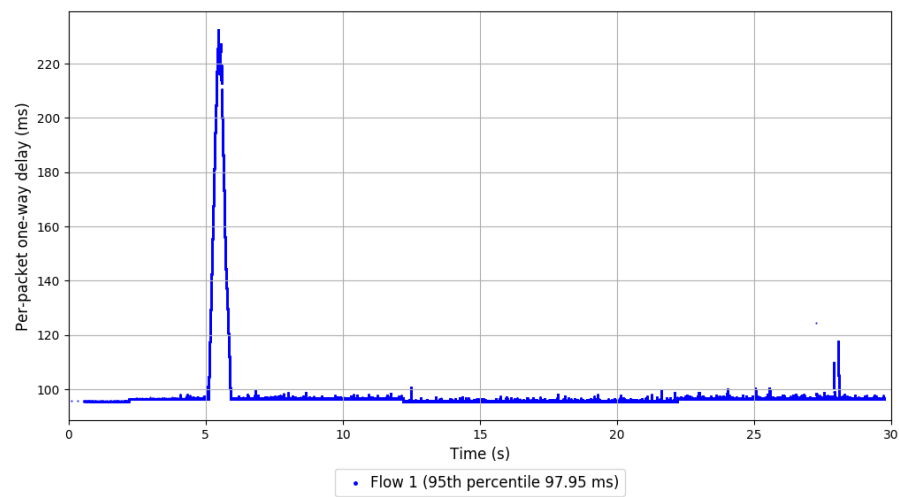
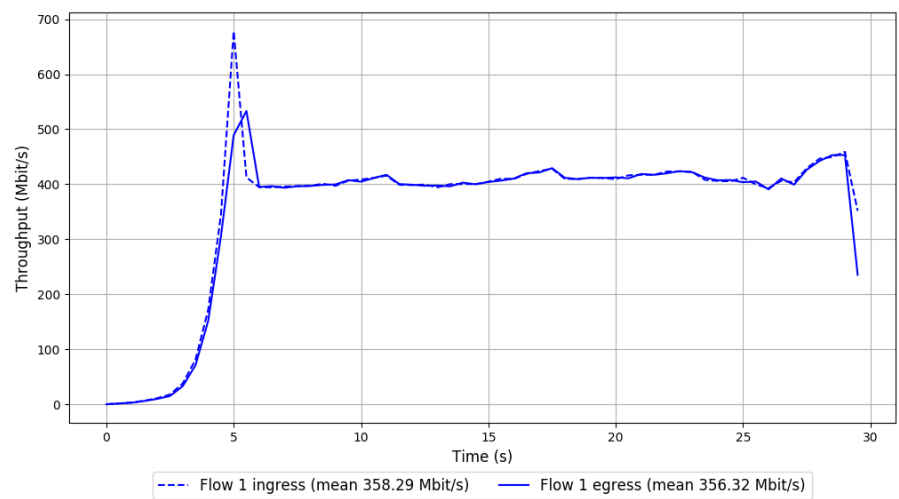
-- Flow 1:

Average throughput: 356.32 Mbit/s

95th percentile per-packet one-way delay: 97.947 ms

Loss rate: 1.29%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-19 17:45:25

End at: 2018-02-19 17:45:55

Below is generated by plot.py at 2018-02-19 23:09:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 265.79 Mbit/s

95th percentile per-packet one-way delay: 85.036 ms

Loss rate: 1.01%

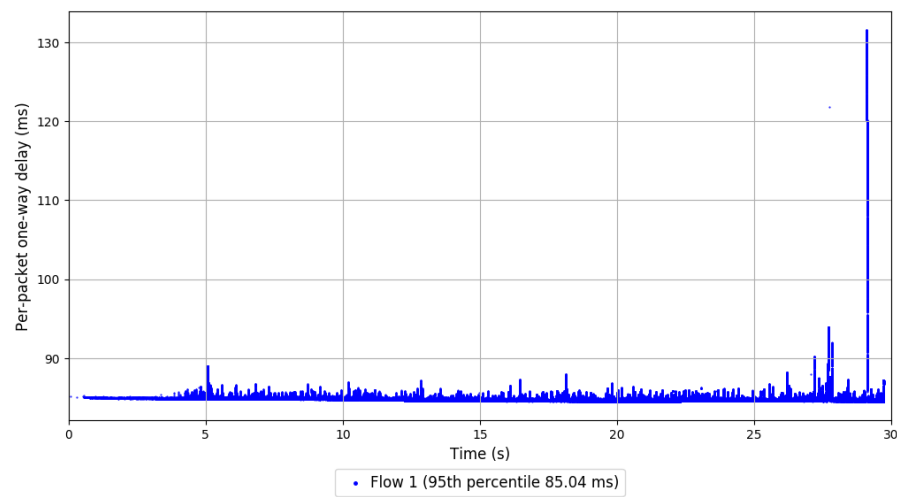
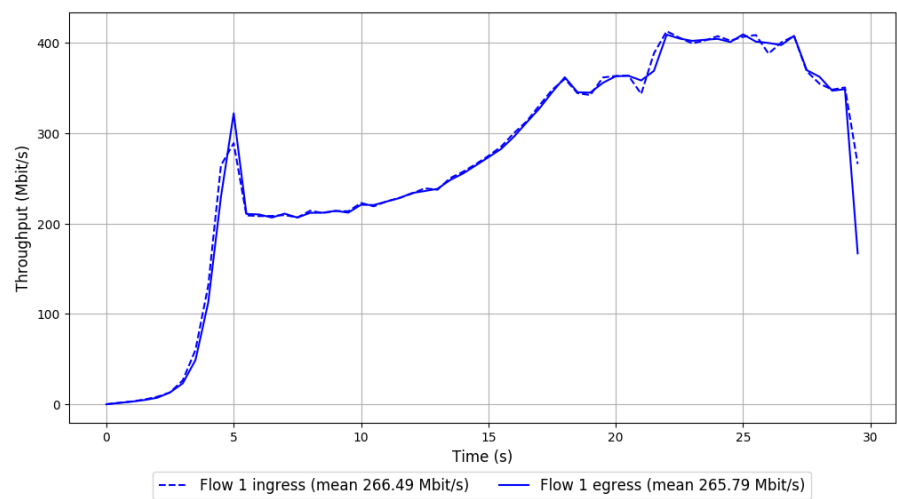
-- Flow 1:

Average throughput: 265.79 Mbit/s

95th percentile per-packet one-way delay: 85.036 ms

Loss rate: 1.01%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-19 18:01:07

End at: 2018-02-19 18:01:37

Below is generated by plot.py at 2018-02-19 23:09:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 141.03 Mbit/s

95th percentile per-packet one-way delay: 98.127 ms

Loss rate: 1.15%

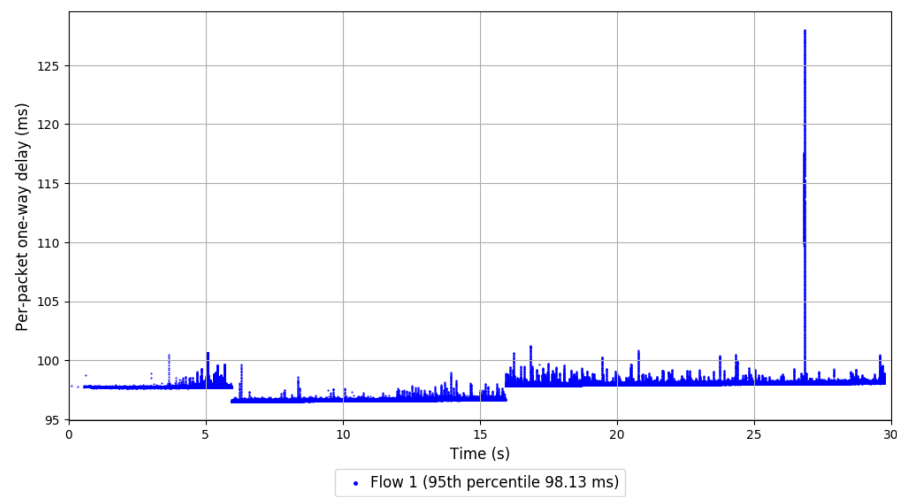
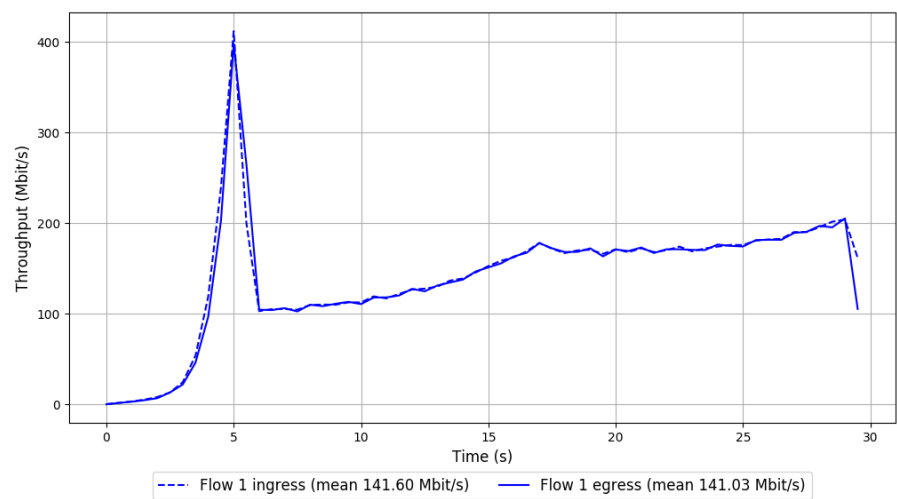
-- Flow 1:

Average throughput: 141.03 Mbit/s

95th percentile per-packet one-way delay: 98.127 ms

Loss rate: 1.15%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-19 18:16:37

End at: 2018-02-19 18:17:07

Below is generated by plot.py at 2018-02-19 23:09:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 370.41 Mbit/s

95th percentile per-packet one-way delay: 100.774 ms

Loss rate: 0.74%

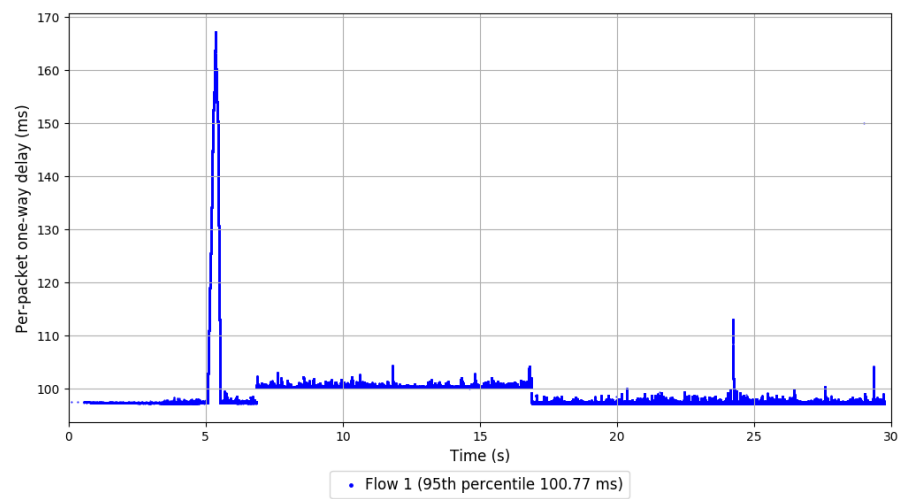
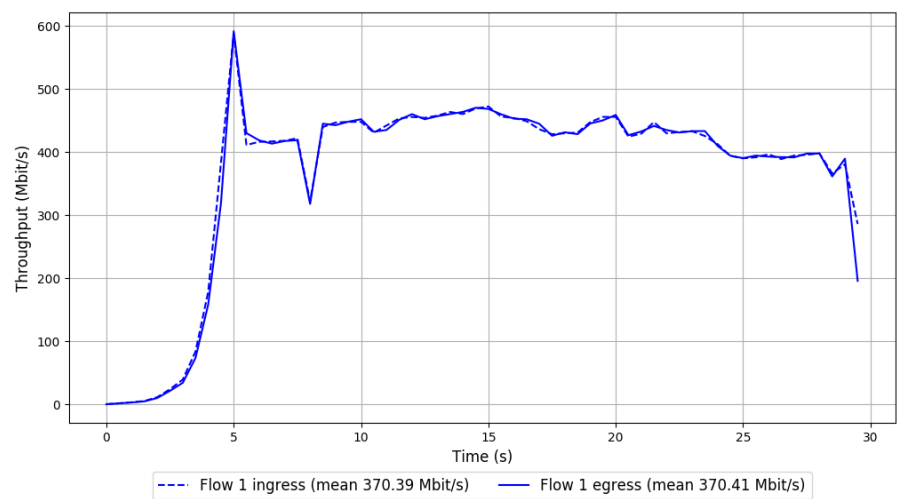
-- Flow 1:

Average throughput: 370.41 Mbit/s

95th percentile per-packet one-way delay: 100.774 ms

Loss rate: 0.74%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-19 18:33:03

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

Below is generated by plot.py at 2018-02-19 23:09:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 267.91 Mbit/s

95th percentile per-packet one-way delay: 104.582 ms

Loss rate: 0.60%

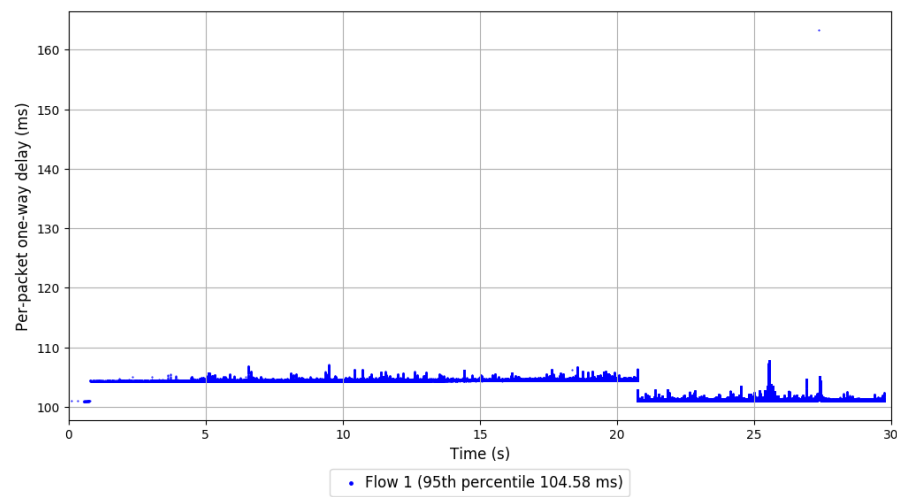
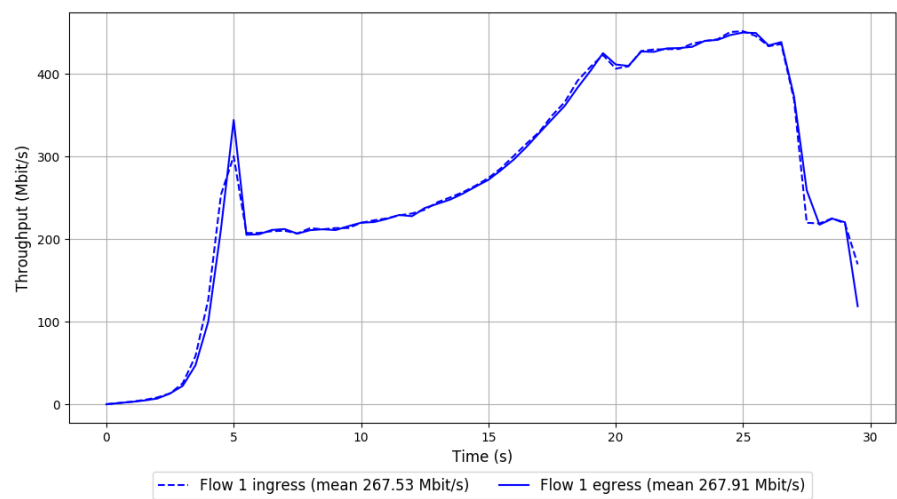
-- Flow 1:

Average throughput: 267.91 Mbit/s

95th percentile per-packet one-way delay: 104.582 ms

Loss rate: 0.60%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-19 18:49:25

End at: 2018-02-19 18:49:55

Below is generated by plot.py at 2018-02-19 23:09:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 369.15 Mbit/s

95th percentile per-packet one-way delay: 107.277 ms

Loss rate: 0.86%

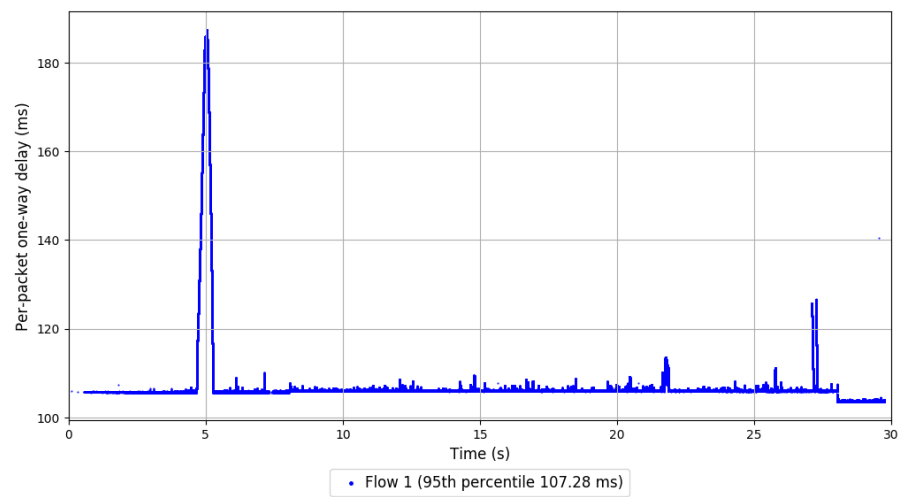
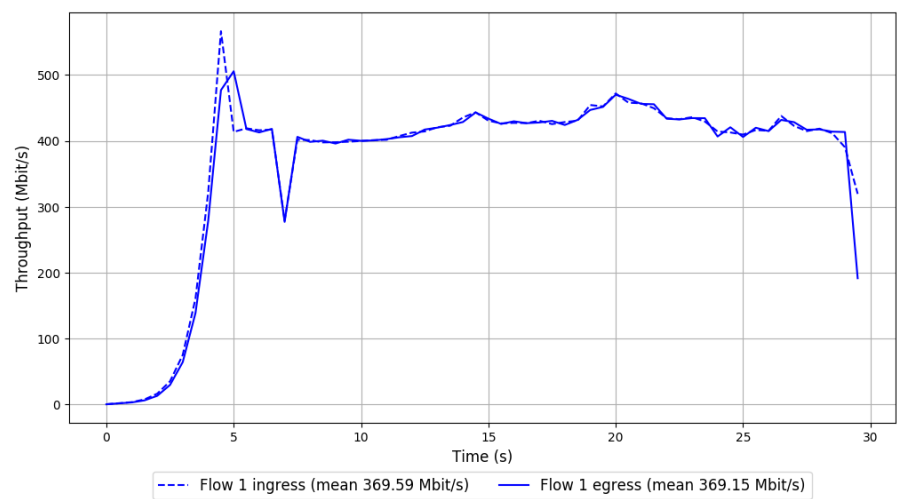
-- Flow 1:

Average throughput: 369.15 Mbit/s

95th percentile per-packet one-way delay: 107.277 ms

Loss rate: 0.86%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-19 19:05:00

End at: 2018-02-19 19:05:30

Below is generated by plot.py at 2018-02-19 23:10:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 388.63 Mbit/s

95th percentile per-packet one-way delay: 112.030 ms

Loss rate: 0.86%

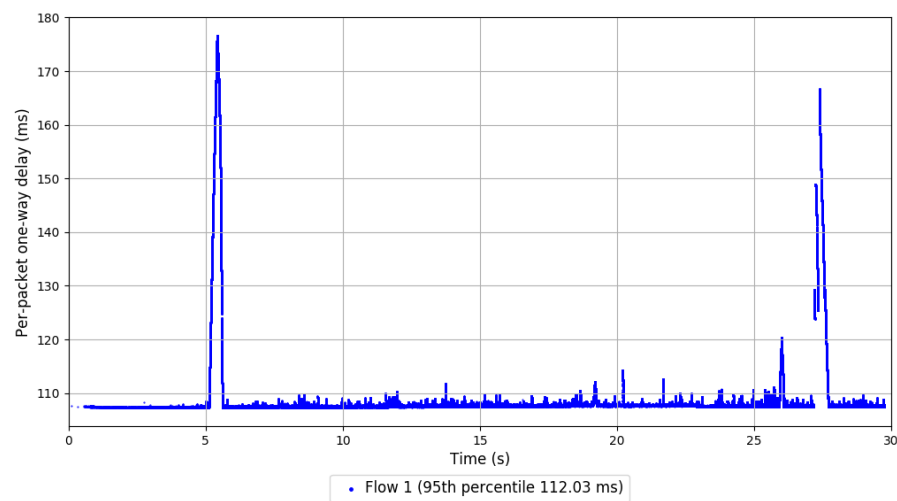
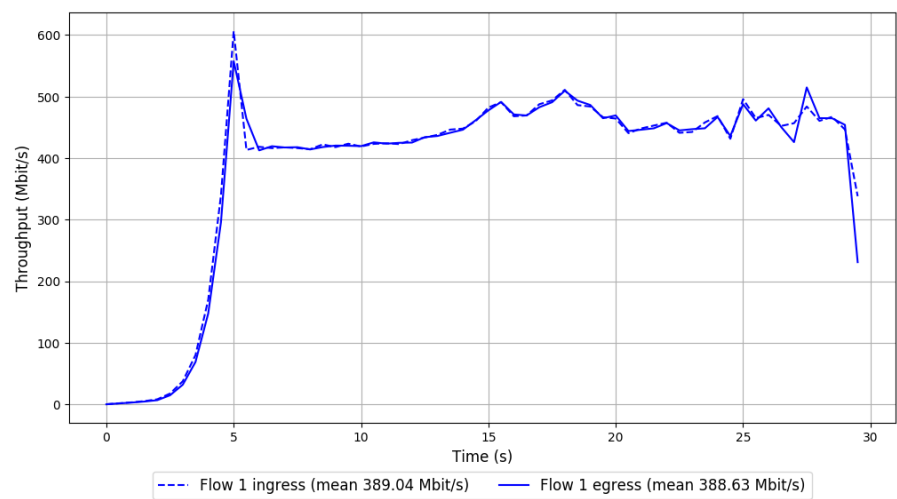
-- Flow 1:

Average throughput: 388.63 Mbit/s

95th percentile per-packet one-way delay: 112.030 ms

Loss rate: 0.86%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-19 19:20:46

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

Below is generated by plot.py at 2018-02-19 23:10:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 350.00 Mbit/s

95th percentile per-packet one-way delay: 141.287 ms

Loss rate: 0.94%

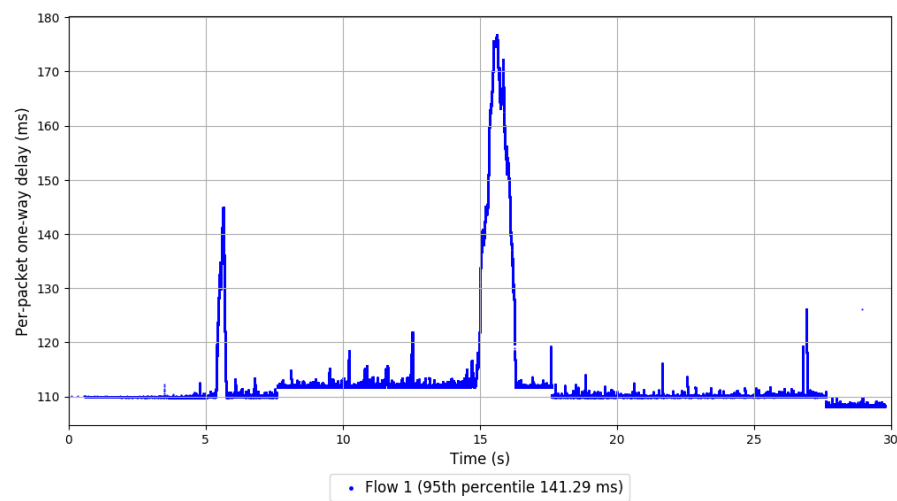
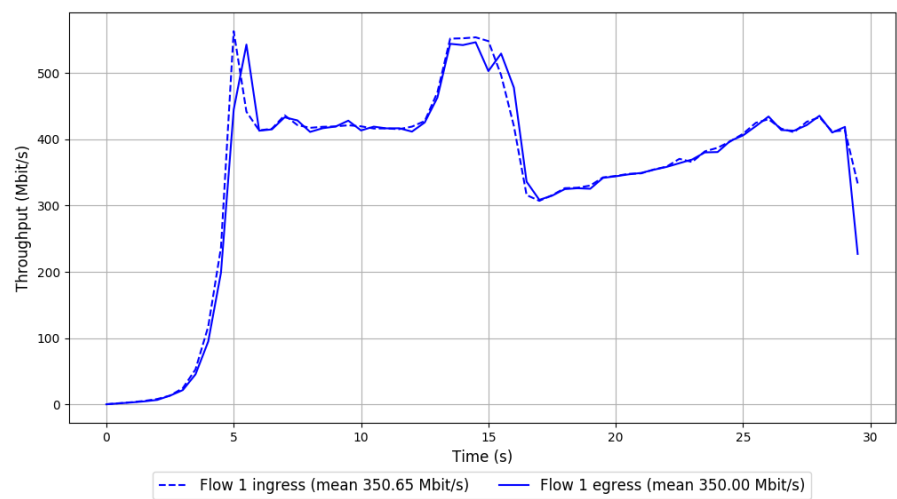
-- Flow 1:

Average throughput: 350.00 Mbit/s

95th percentile per-packet one-way delay: 141.287 ms

Loss rate: 0.94%

Run 10: Report of Vivace-latency — Data Link

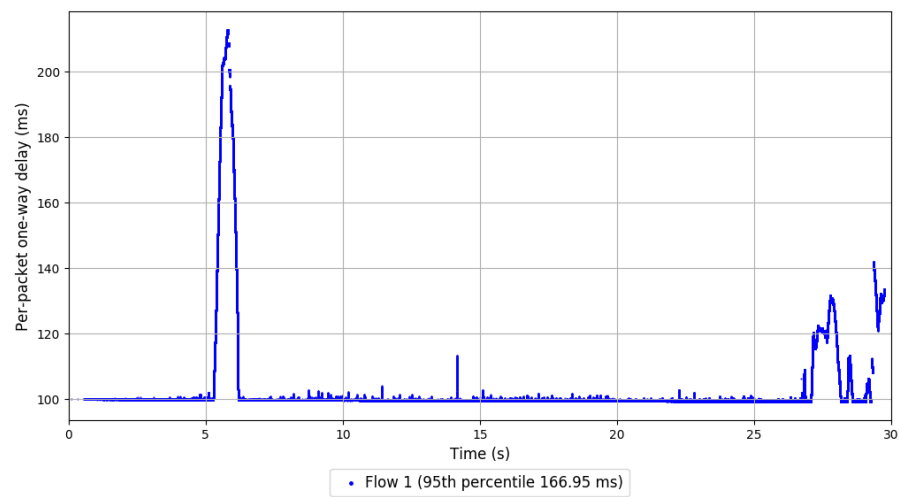
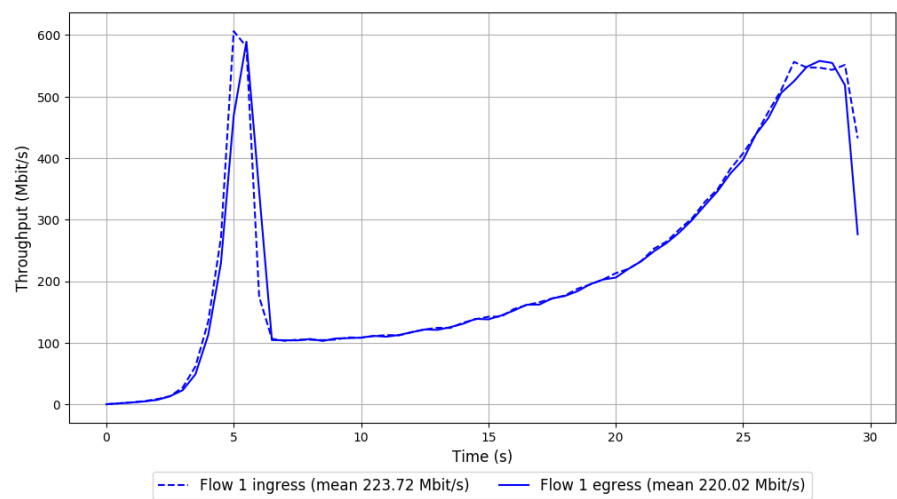


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-19 17:00:02
End at: 2018-02-19 17:00:32

# Below is generated by plot.py at 2018-02-19 23:10:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 220.02 Mbit/s
95th percentile per-packet one-way delay: 166.948 ms
Loss rate: 2.40%
-- Flow 1:
Average throughput: 220.02 Mbit/s
95th percentile per-packet one-way delay: 166.948 ms
Loss rate: 2.40%
```

Run 1: Report of Vivace-loss — Data Link

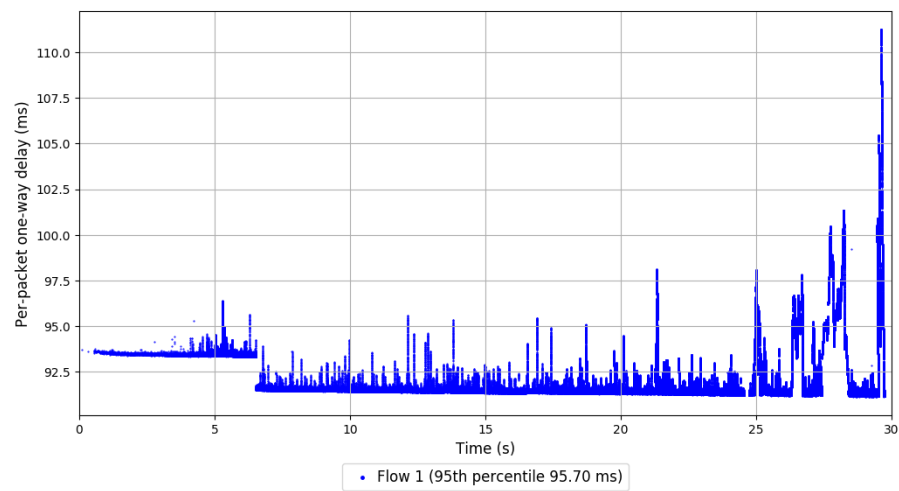
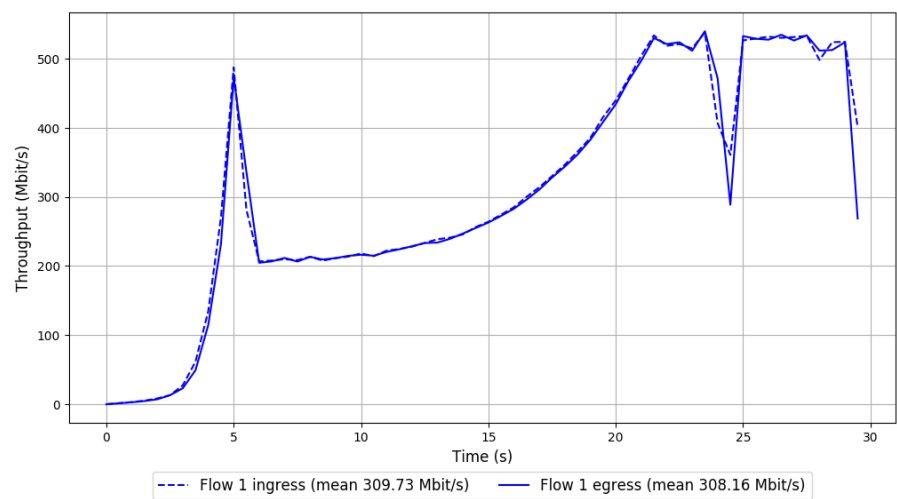


```
Run 2: Statistics of Vivace-loss

Start at: 2018-02-19 17:15:47
End at: 2018-02-19 17:16:17

# Below is generated by plot.py at 2018-02-19 23:11:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 308.16 Mbit/s
95th percentile per-packet one-way delay: 95.700 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 308.16 Mbit/s
95th percentile per-packet one-way delay: 95.700 ms
Loss rate: 1.25%
```

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-19 17:31:28

End at: 2018-02-19 17:31:58

Below is generated by plot.py at 2018-02-19 23:12:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 349.03 Mbit/s

95th percentile per-packet one-way delay: 110.679 ms

Loss rate: 1.06%

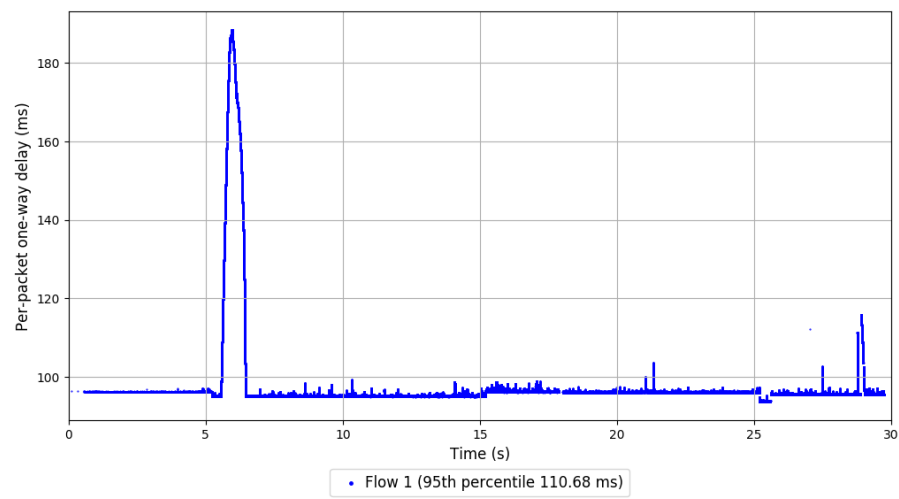
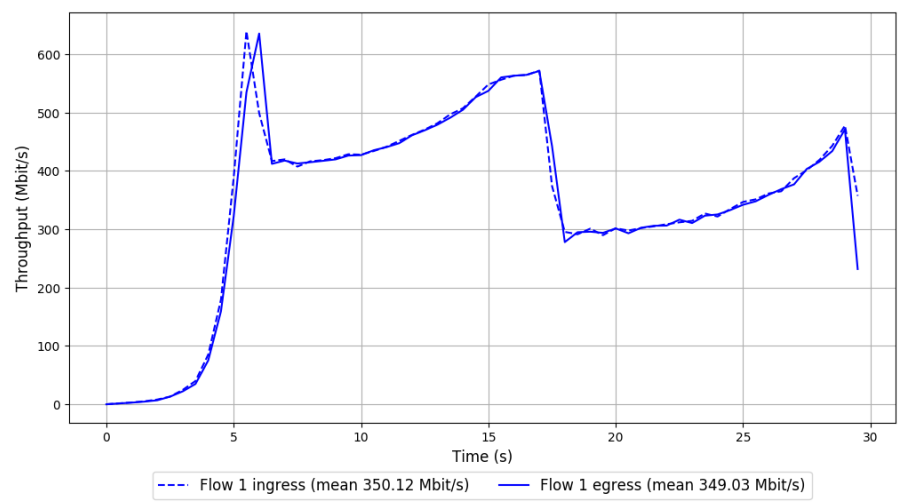
-- Flow 1:

Average throughput: 349.03 Mbit/s

95th percentile per-packet one-way delay: 110.679 ms

Loss rate: 1.06%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-19 17:47:10

End at: 2018-02-19 17:47:40

Below is generated by plot.py at 2018-02-19 23:14:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 377.35 Mbit/s

95th percentile per-packet one-way delay: 172.527 ms

Loss rate: 1.46%

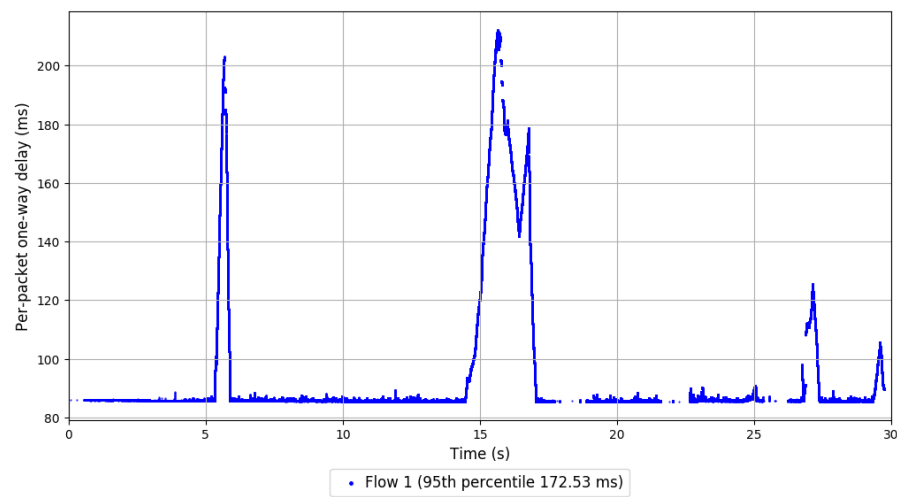
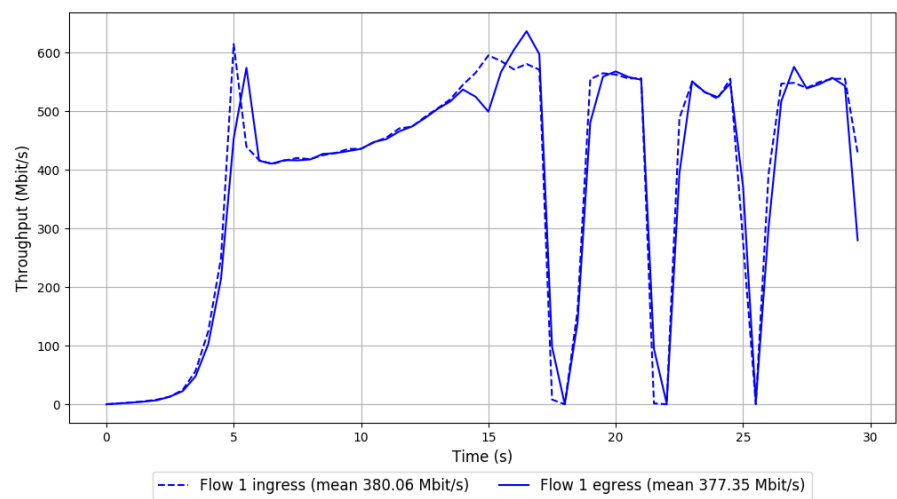
-- Flow 1:

Average throughput: 377.35 Mbit/s

95th percentile per-packet one-way delay: 172.527 ms

Loss rate: 1.46%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

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

End at: 2018-02-19 18:03:14

Below is generated by plot.py at 2018-02-19 23:14:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 302.23 Mbit/s

95th percentile per-packet one-way delay: 116.705 ms

Loss rate: 1.54%

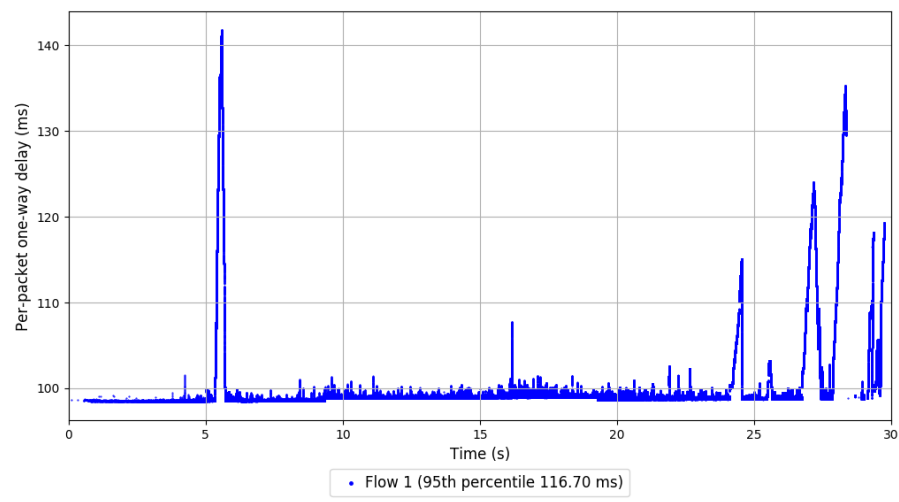
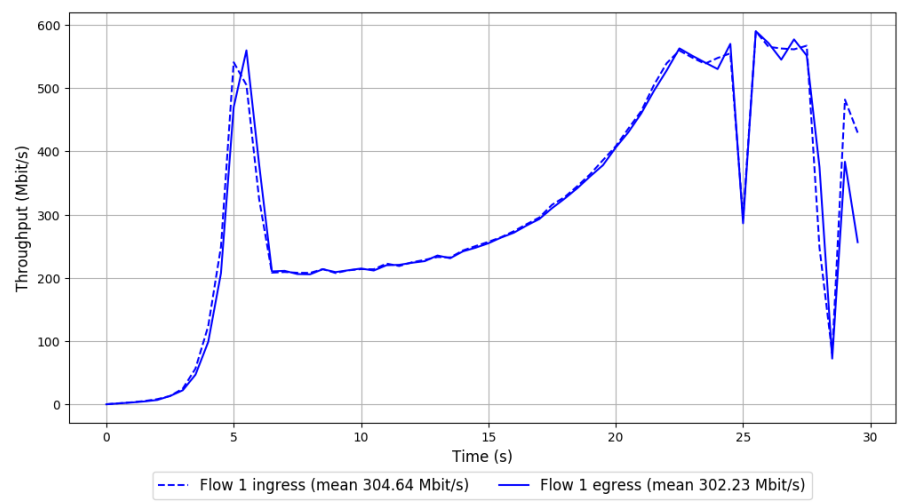
-- Flow 1:

Average throughput: 302.23 Mbit/s

95th percentile per-packet one-way delay: 116.705 ms

Loss rate: 1.54%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

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

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

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 397.25 Mbit/s

95th percentile per-packet one-way delay: 102.242 ms

Loss rate: 0.97%

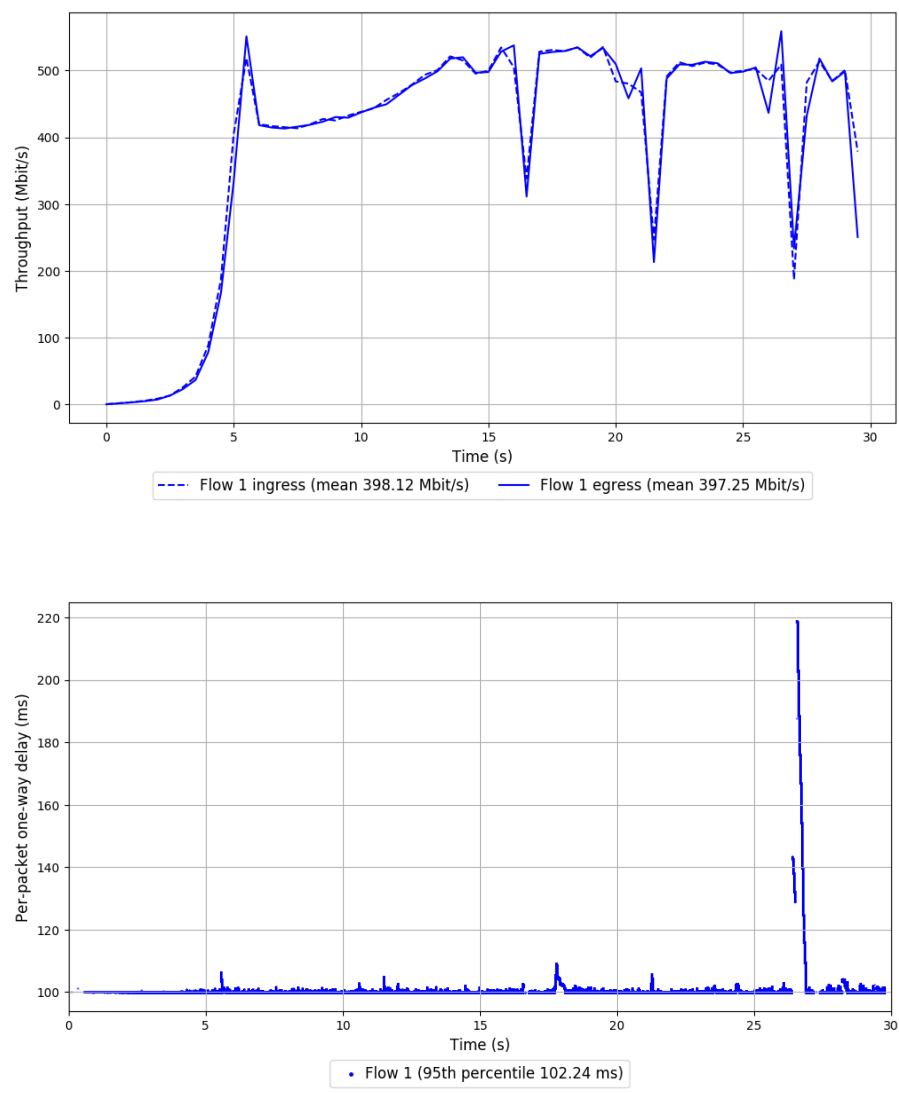
-- Flow 1:

Average throughput: 397.25 Mbit/s

95th percentile per-packet one-way delay: 102.242 ms

Loss rate: 0.97%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-19 18:34:48

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

Below is generated by plot.py at 2018-02-19 23:15:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 400.79 Mbit/s

95th percentile per-packet one-way delay: 110.525 ms

Loss rate: 0.93%

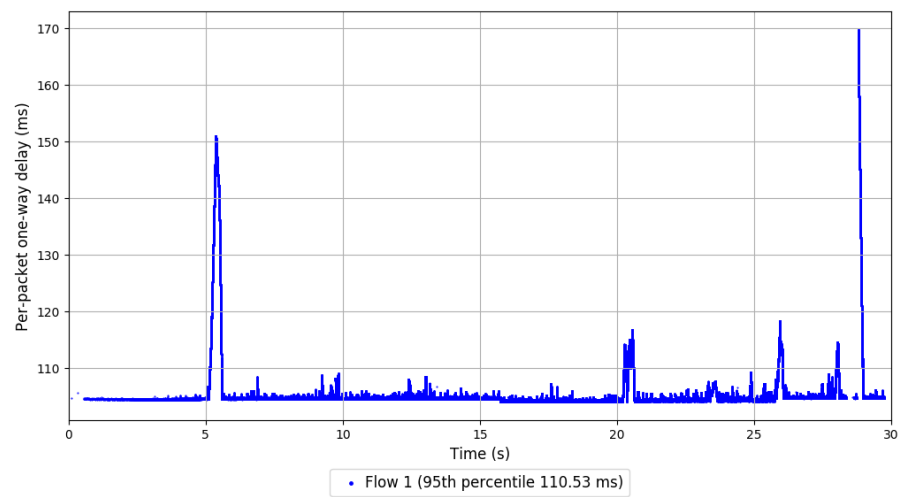
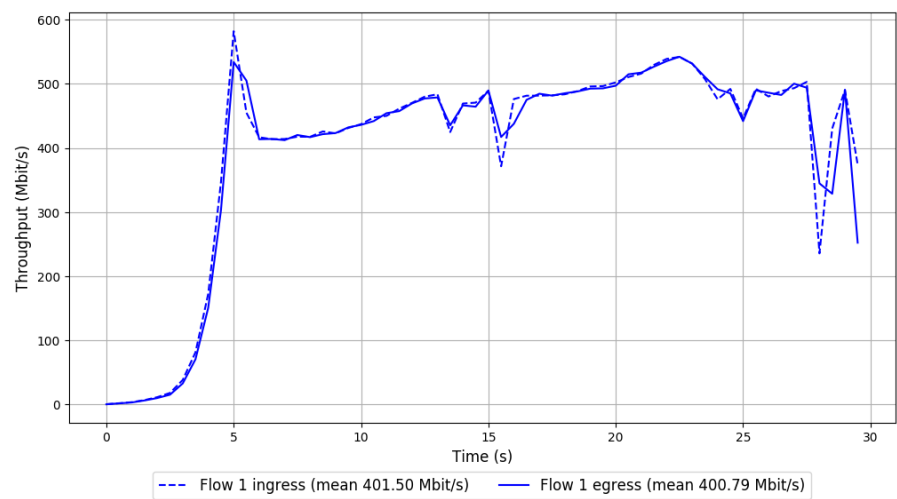
-- Flow 1:

Average throughput: 400.79 Mbit/s

95th percentile per-packet one-way delay: 110.525 ms

Loss rate: 0.93%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-19 18:51:17

End at: 2018-02-19 18:51:47

Below is generated by plot.py at 2018-02-19 23:15:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 315.14 Mbit/s

95th percentile per-packet one-way delay: 142.243 ms

Loss rate: 1.22%

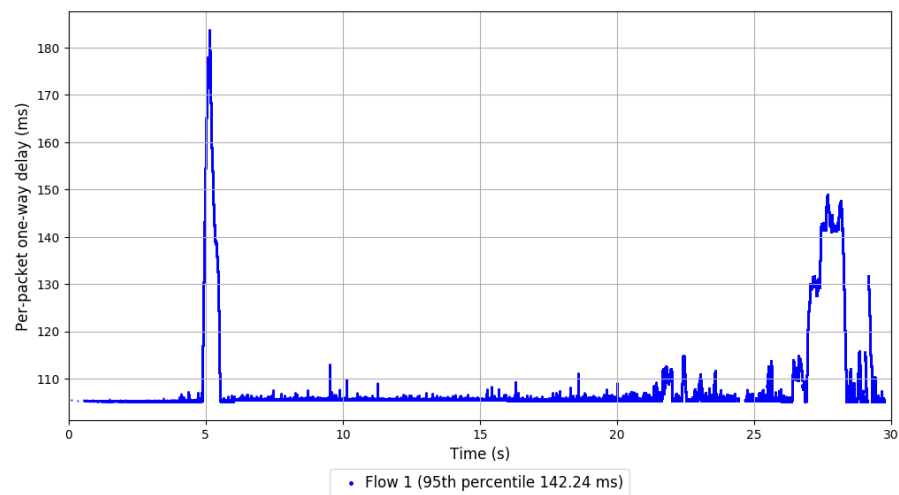
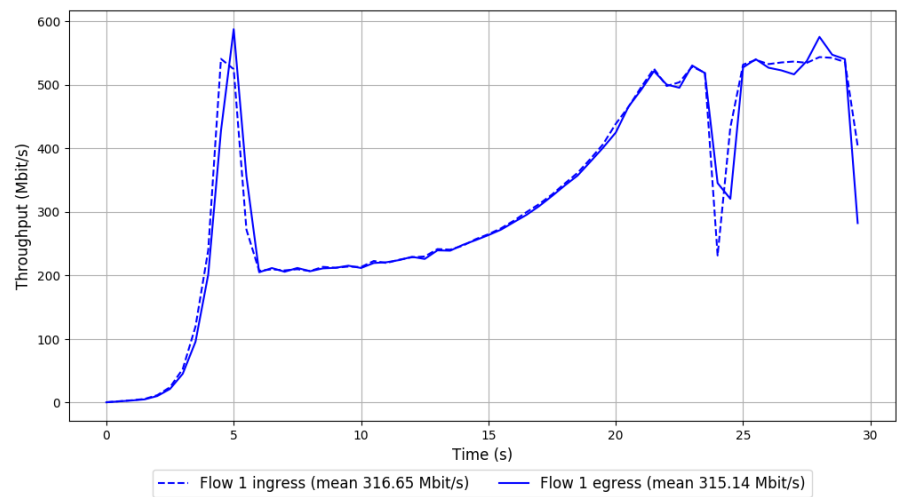
-- Flow 1:

Average throughput: 315.14 Mbit/s

95th percentile per-packet one-way delay: 142.243 ms

Loss rate: 1.22%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-19 19:06:55

End at: 2018-02-19 19:07:25

Below is generated by plot.py at 2018-02-19 23:17:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 399.13 Mbit/s

95th percentile per-packet one-way delay: 128.689 ms

Loss rate: 0.97%

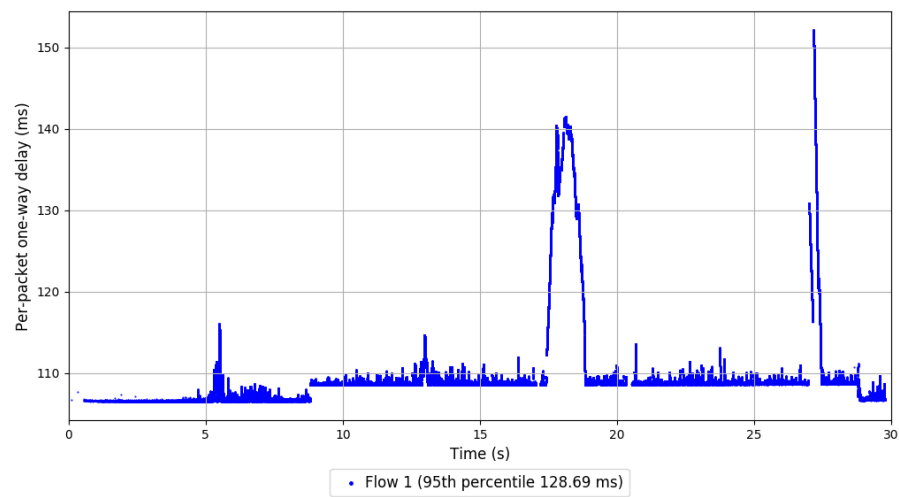
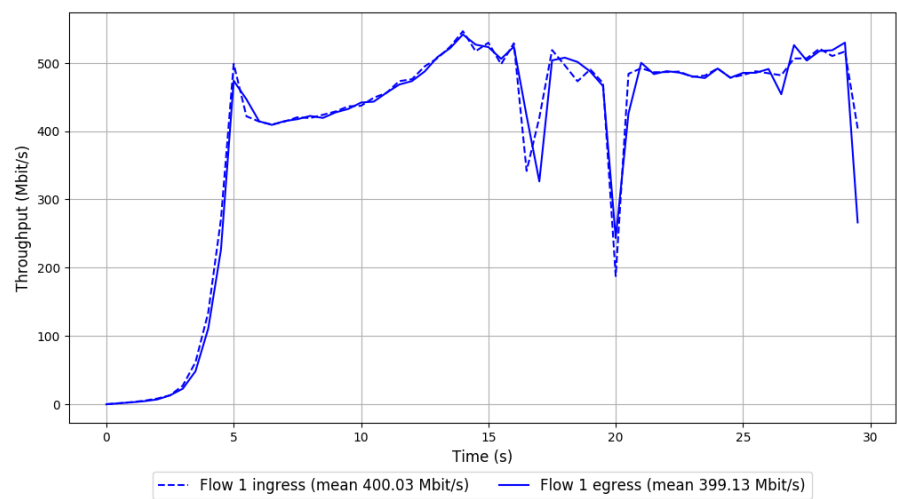
-- Flow 1:

Average throughput: 399.13 Mbit/s

95th percentile per-packet one-way delay: 128.689 ms

Loss rate: 0.97%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-19 19:22:38

End at: 2018-02-19 19:23:08

Below is generated by plot.py at 2018-02-19 23:17:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 293.87 Mbit/s

95th percentile per-packet one-way delay: 111.592 ms

Loss rate: 1.09%

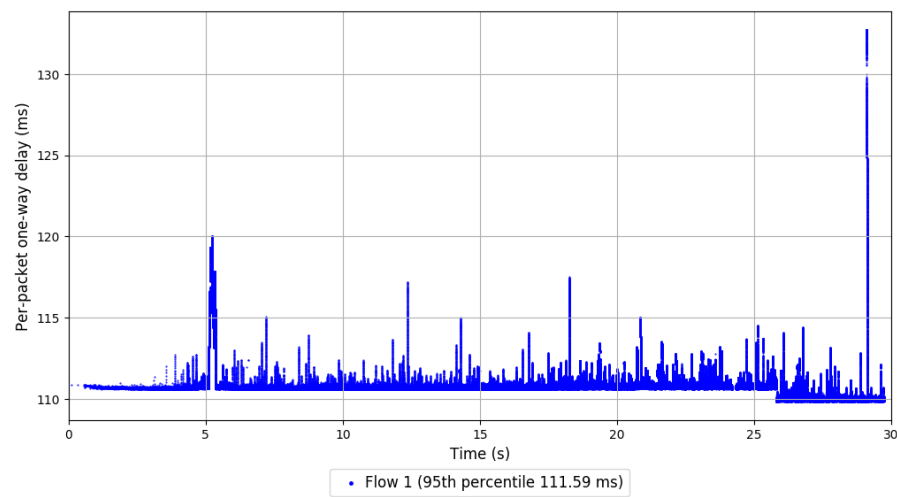
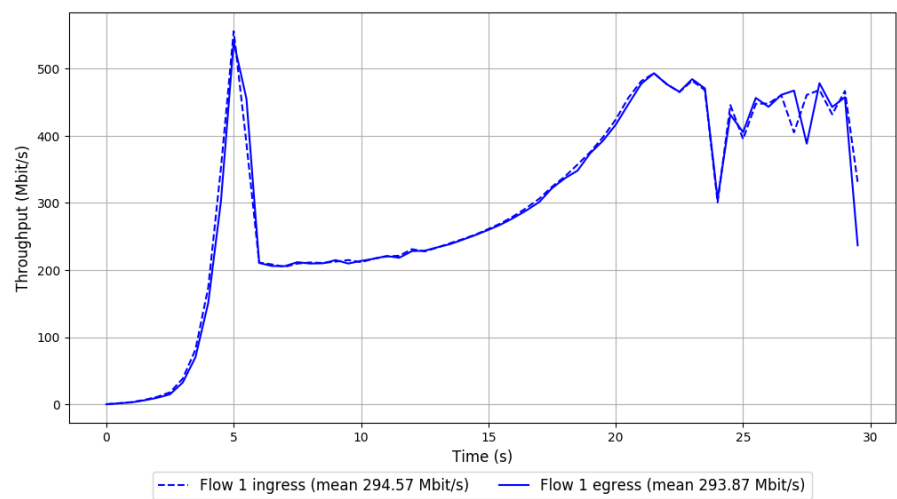
-- Flow 1:

Average throughput: 293.87 Mbit/s

95th percentile per-packet one-way delay: 111.592 ms

Loss rate: 1.09%

Run 10: Report of Vivace-loss — Data Link

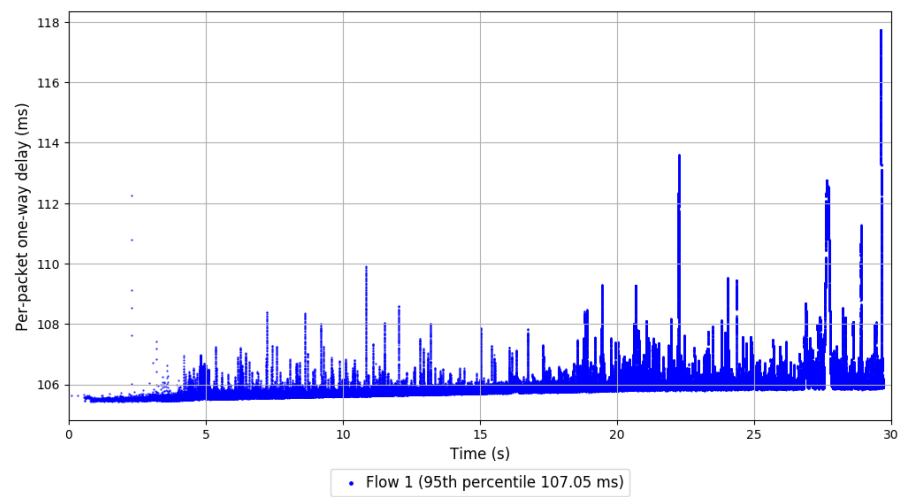
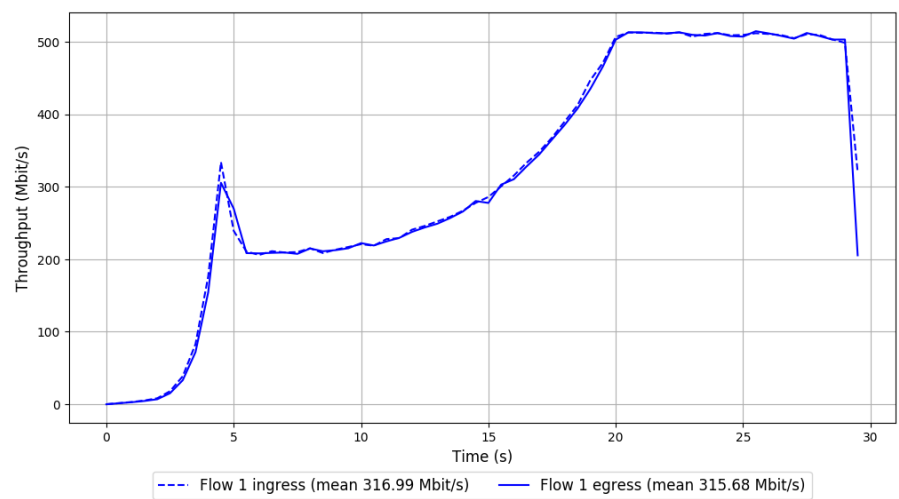


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-19 16:48:56
End at: 2018-02-19 16:49:26

# Below is generated by plot.py at 2018-02-19 23:17:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 315.68 Mbit/s
95th percentile per-packet one-way delay: 107.050 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 315.68 Mbit/s
95th percentile per-packet one-way delay: 107.050 ms
Loss rate: 1.16%
```


Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-19 17:04:14

End at: 2018-02-19 17:04:44

Below is generated by plot.py at 2018-02-19 23:21:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 410.80 Mbit/s

95th percentile per-packet one-way delay: 121.481 ms

Loss rate: 0.92%

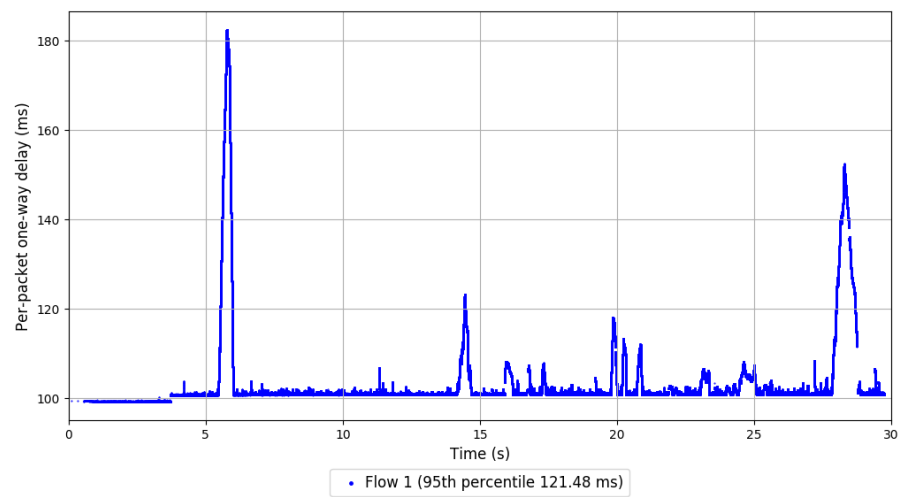
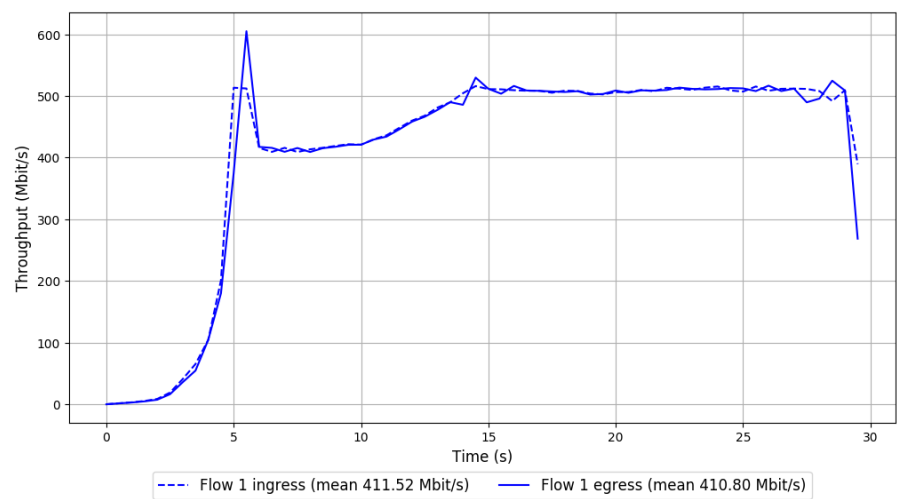
-- Flow 1:

Average throughput: 410.80 Mbit/s

95th percentile per-packet one-way delay: 121.481 ms

Loss rate: 0.92%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-19 17:20:05

End at: 2018-02-19 17:20:35

Below is generated by plot.py at 2018-02-19 23:21:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 415.64 Mbit/s

95th percentile per-packet one-way delay: 96.256 ms

Loss rate: 0.90%

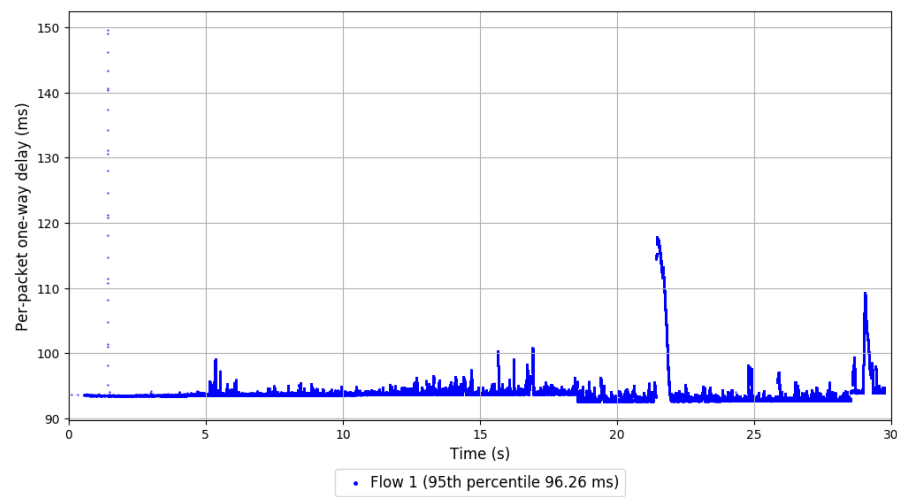
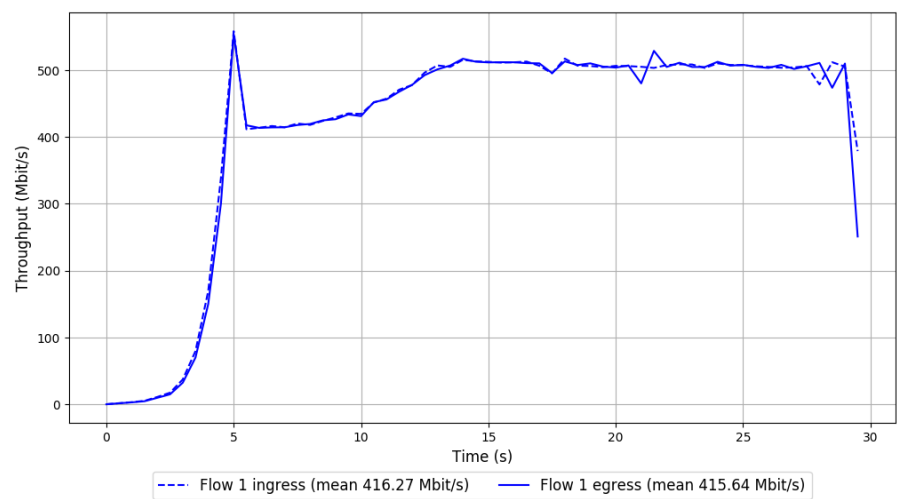
-- Flow 1:

Average throughput: 415.64 Mbit/s

95th percentile per-packet one-way delay: 96.256 ms

Loss rate: 0.90%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-19 17:35:50

End at: 2018-02-19 17:36:20

Below is generated by plot.py at 2018-02-19 23:21:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 390.40 Mbit/s

95th percentile per-packet one-way delay: 98.517 ms

Loss rate: 0.99%

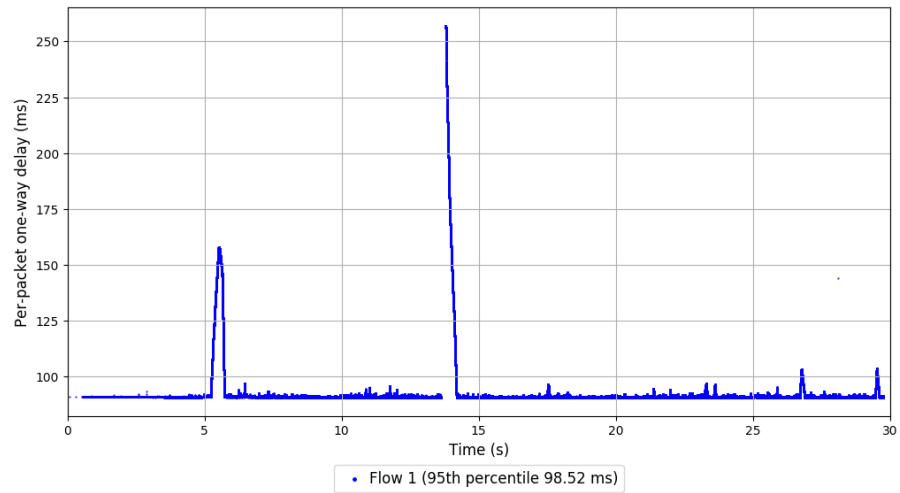
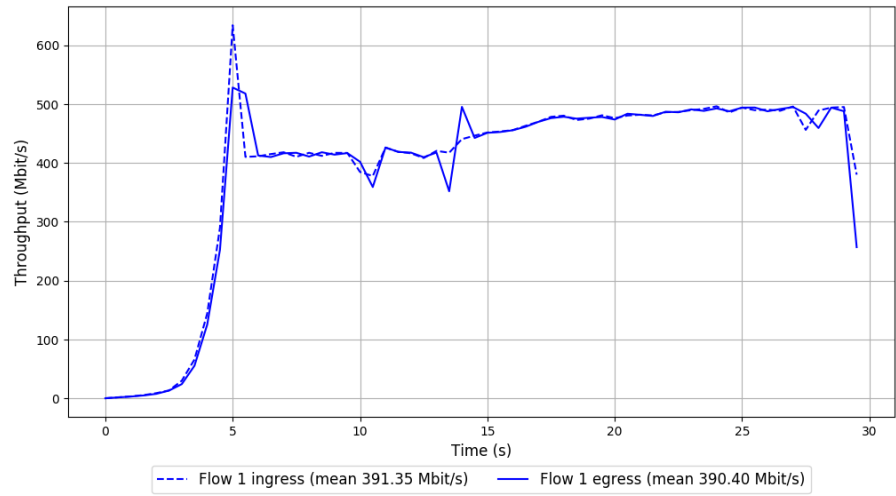
-- Flow 1:

Average throughput: 390.40 Mbit/s

95th percentile per-packet one-way delay: 98.517 ms

Loss rate: 0.99%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

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

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

Below is generated by plot.py at 2018-02-19 23:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 391.17 Mbit/s

95th percentile per-packet one-way delay: 93.489 ms

Loss rate: 0.52%

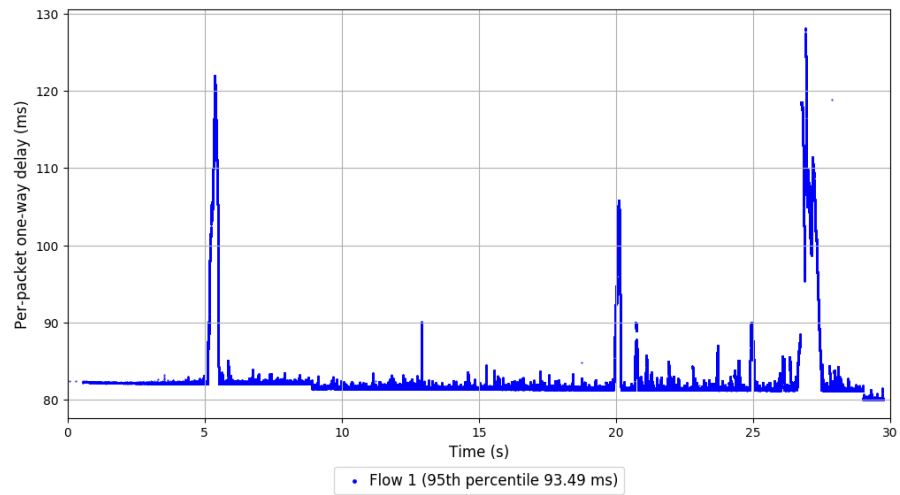
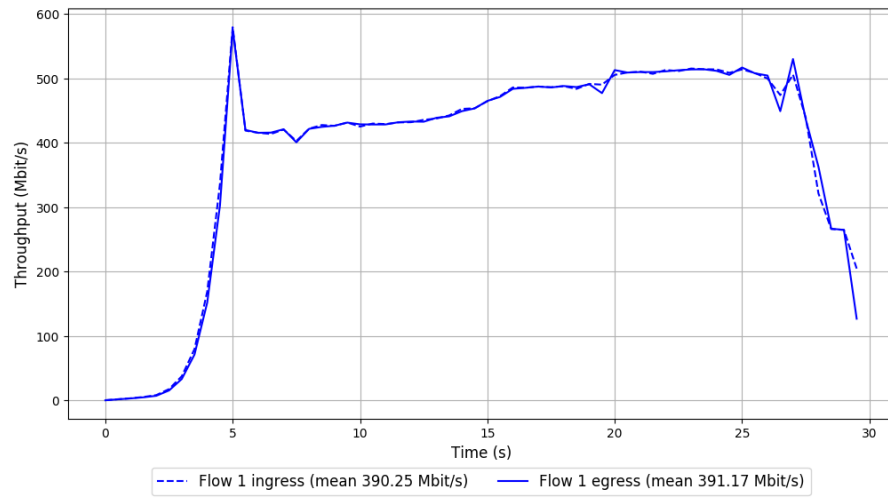
-- Flow 1:

Average throughput: 391.17 Mbit/s

95th percentile per-packet one-way delay: 93.489 ms

Loss rate: 0.52%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-19 18:07:04

End at: 2018-02-19 18:07:34

Below is generated by plot.py at 2018-02-19 23:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.86 Mbit/s

95th percentile per-packet one-way delay: 102.612 ms

Loss rate: 1.89%

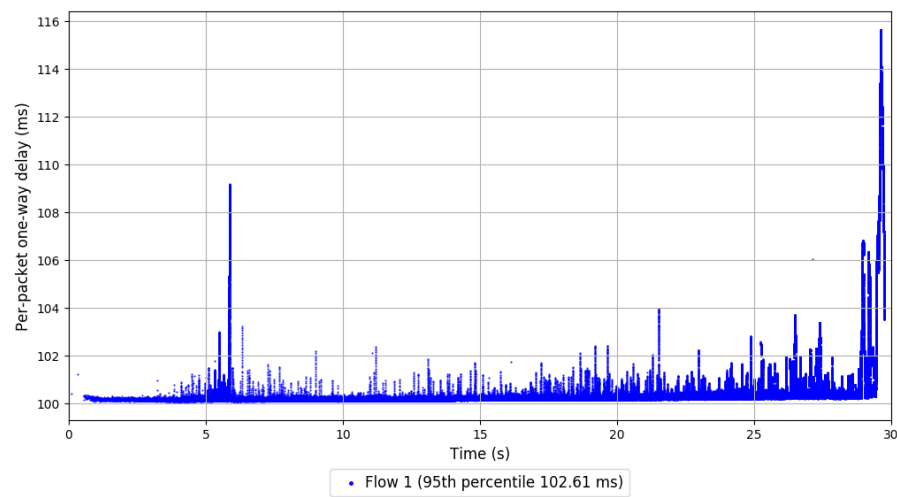
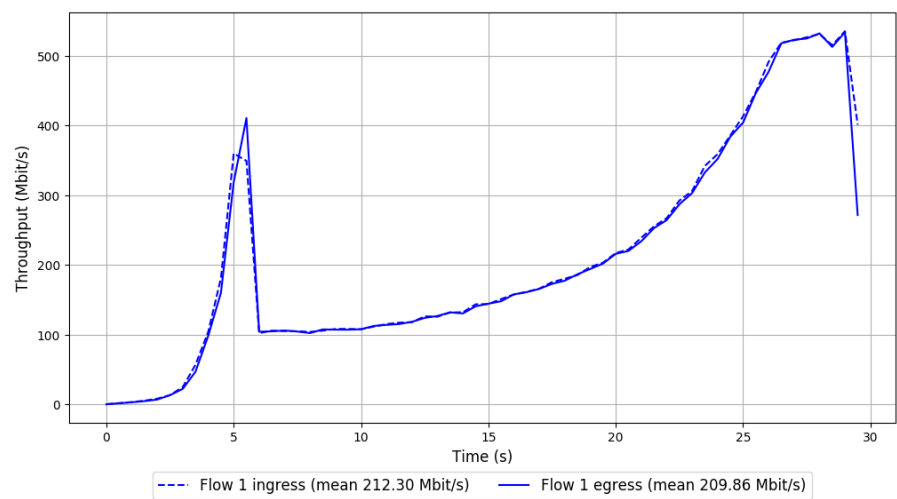
-- Flow 1:

Average throughput: 209.86 Mbit/s

95th percentile per-packet one-way delay: 102.612 ms

Loss rate: 1.89%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-19 18:23:14

End at: 2018-02-19 18:23:44

Below is generated by plot.py at 2018-02-19 23:22:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 385.93 Mbit/s

95th percentile per-packet one-way delay: 99.085 ms

Loss rate: 0.94%

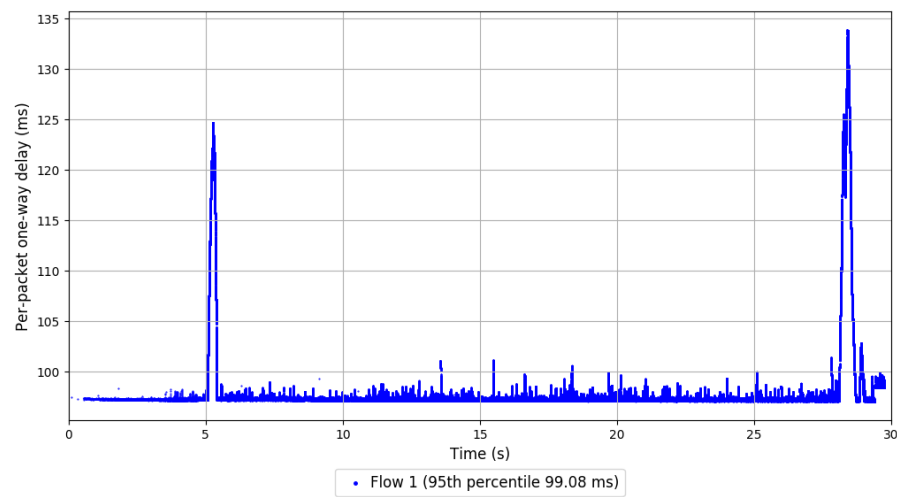
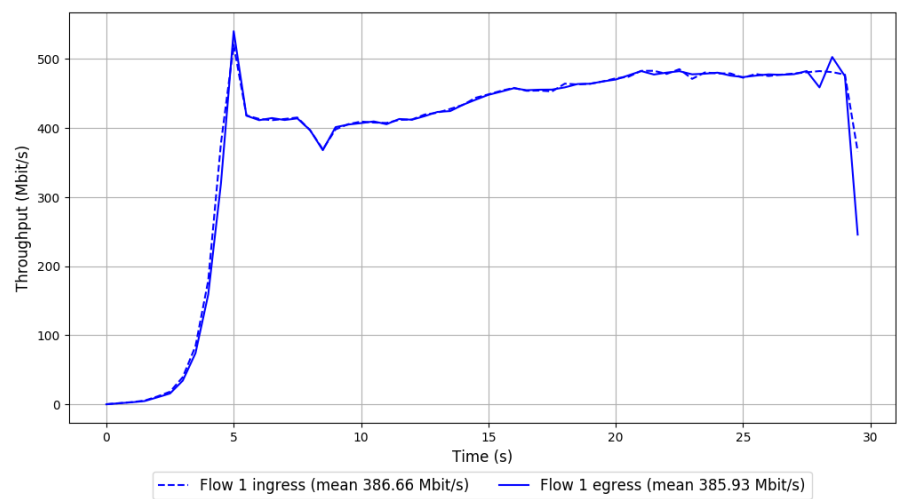
-- Flow 1:

Average throughput: 385.93 Mbit/s

95th percentile per-packet one-way delay: 99.085 ms

Loss rate: 0.94%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-19 18:39:53

End at: 2018-02-19 18:40:23

Below is generated by plot.py at 2018-02-19 23:22:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 376.96 Mbit/s

95th percentile per-packet one-way delay: 111.203 ms

Loss rate: 0.49%

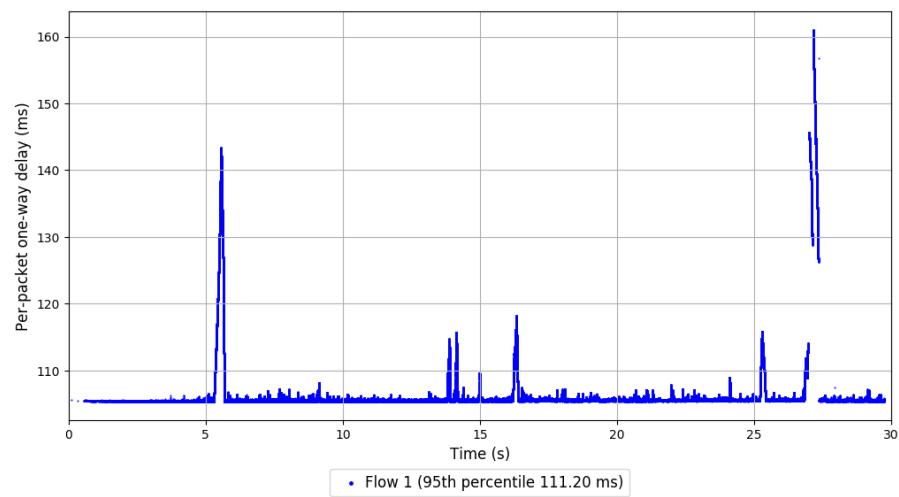
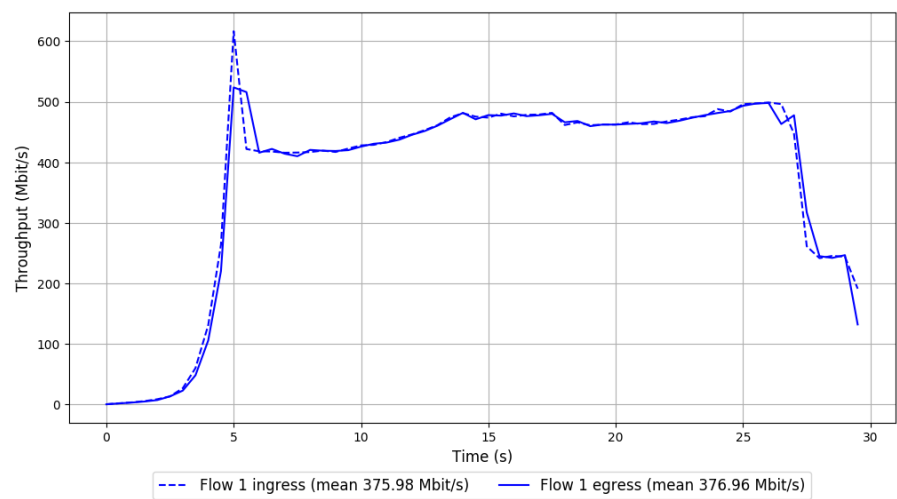
-- Flow 1:

Average throughput: 376.96 Mbit/s

95th percentile per-packet one-way delay: 111.203 ms

Loss rate: 0.49%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-19 18:55:39

End at: 2018-02-19 18:56:09

Below is generated by plot.py at 2018-02-19 23:22:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 400.82 Mbit/s

95th percentile per-packet one-way delay: 107.295 ms

Loss rate: 0.91%

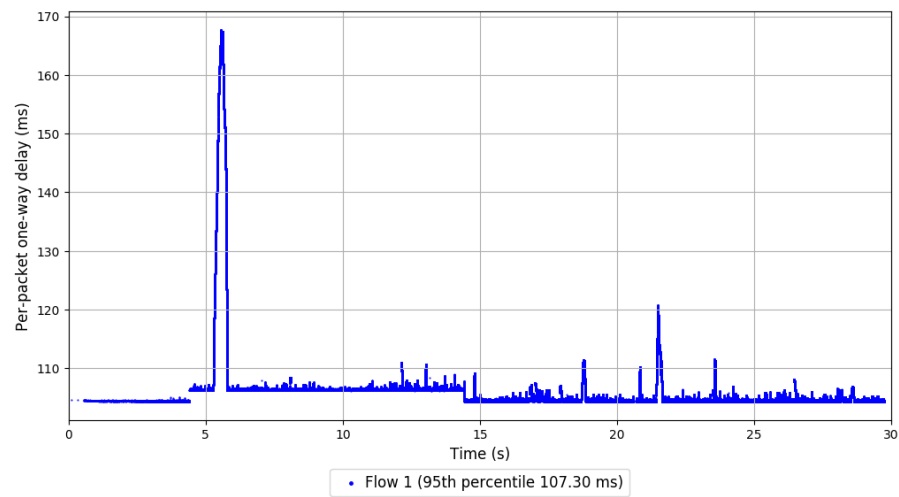
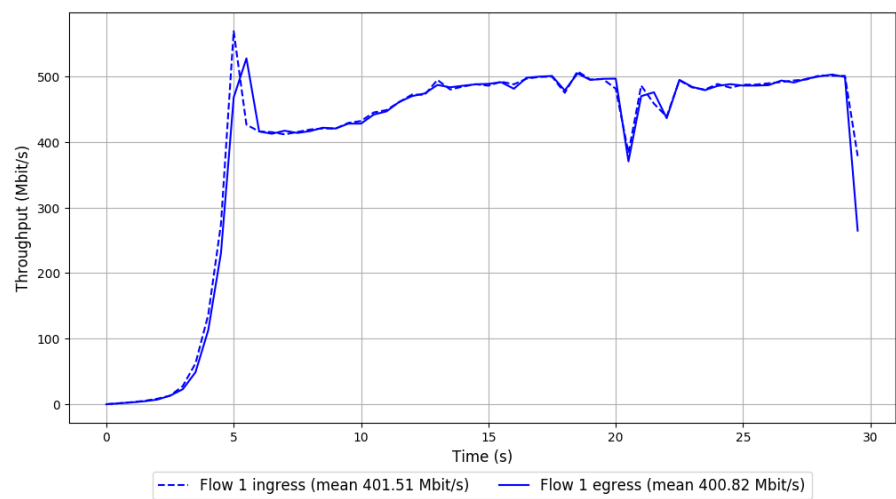
-- Flow 1:

Average throughput: 400.82 Mbit/s

95th percentile per-packet one-way delay: 107.295 ms

Loss rate: 0.91%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-19 19:11:21

End at: 2018-02-19 19:11:51

Below is generated by plot.py at 2018-02-19 23:22:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 362.46 Mbit/s

95th percentile per-packet one-way delay: 114.470 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 362.46 Mbit/s

95th percentile per-packet one-way delay: 114.470 ms

Loss rate: 0.91%

Run 10: Report of Vivace-LTE — Data Link

