

Pantheon Report

Generated at 2018-04-10 10:44:07 (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.

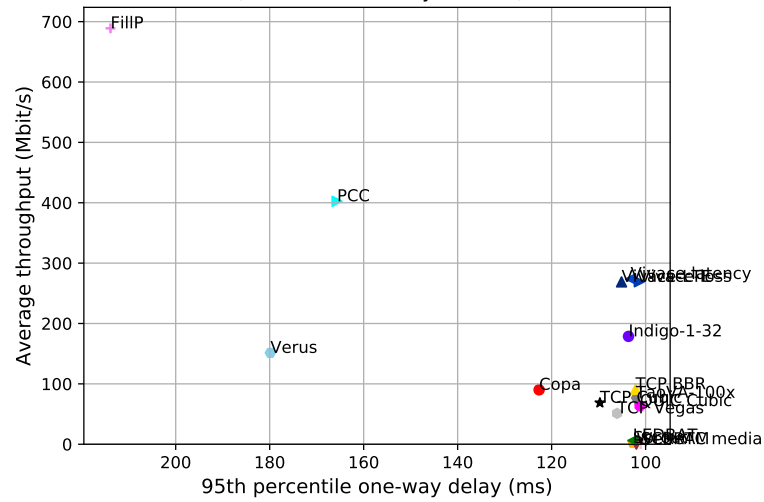
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

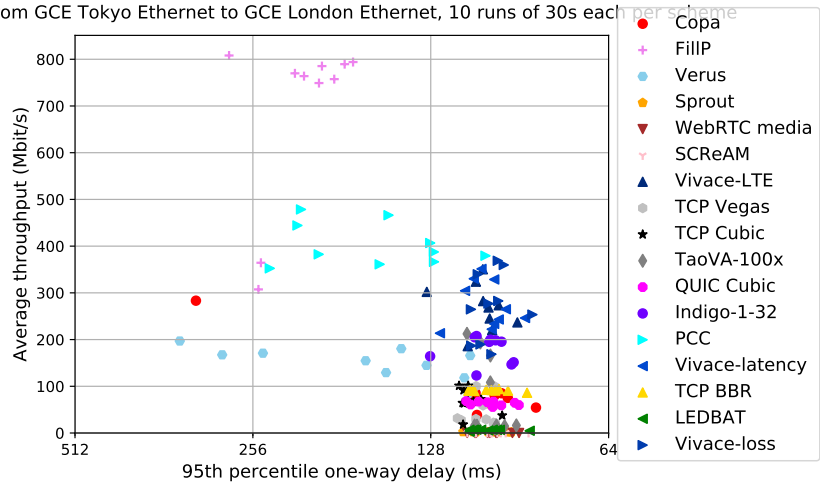
Git summary:

```
branch: master @ eb420b5be9bafccd22cf68b99ff5a2000462fc59
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ f271183af822eee5d0031620f4bebf38aedc5581
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	91.05	102.14	0.73
TCP Cubic	10	68.65	109.73	0.65
LEDBAT	10	6.18	102.73	1.49
PCC	10	402.50	165.66	1.38
QUIC Cubic	9	63.22	101.23	1.02
SCReAM	10	0.21	101.05	0.75
WebRTC media	10	0.06	101.96	0.00
Sprout	10	2.10	102.69	0.91
TaoVA-100x	10	76.85	102.07	0.89
TCP Vegas	10	51.17	106.07	0.66
Verus	10	151.30	179.87	1.22
Copa	10	90.13	122.66	3.50
FillP	10	688.92	213.87	3.92
Indigo-1-32	10	178.68	103.64	0.79
Vivace-latency	10	273.78	103.21	0.91
Vivace-loss	10	269.10	101.34	0.69
Vivace-LTE	10	268.95	105.13	1.00

Run 1: Statistics of TCP BBR

Start at: 2018-04-10 04:32:45

End at: 2018-04-10 04:33:15

Below is generated by plot.py at 2018-04-10 09:44:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.39 Mbit/s

95th percentile per-packet one-way delay: 110.545 ms

Loss rate: 0.80%

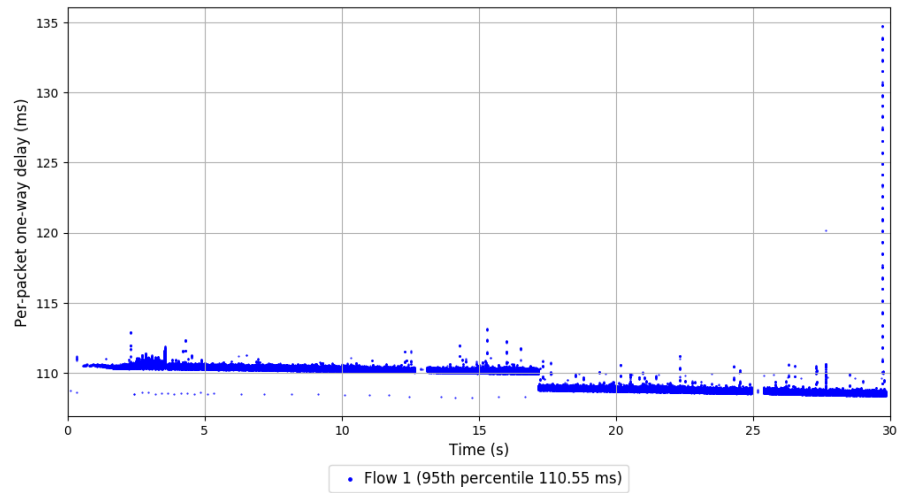
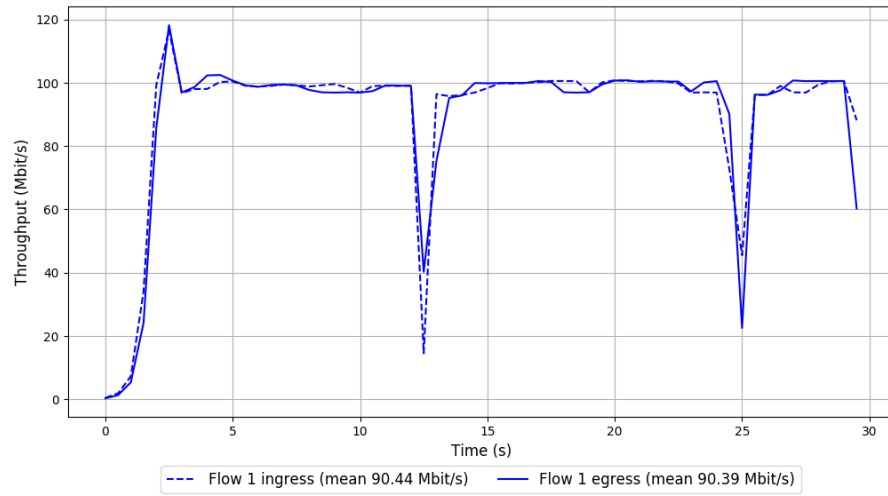
-- Flow 1:

Average throughput: 90.39 Mbit/s

95th percentile per-packet one-way delay: 110.545 ms

Loss rate: 0.80%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-04-10 04:48:14

End at: 2018-04-10 04:48:44

Below is generated by plot.py at 2018-04-10 09:44:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.57 Mbit/s

95th percentile per-packet one-way delay: 103.091 ms

Loss rate: 0.87%

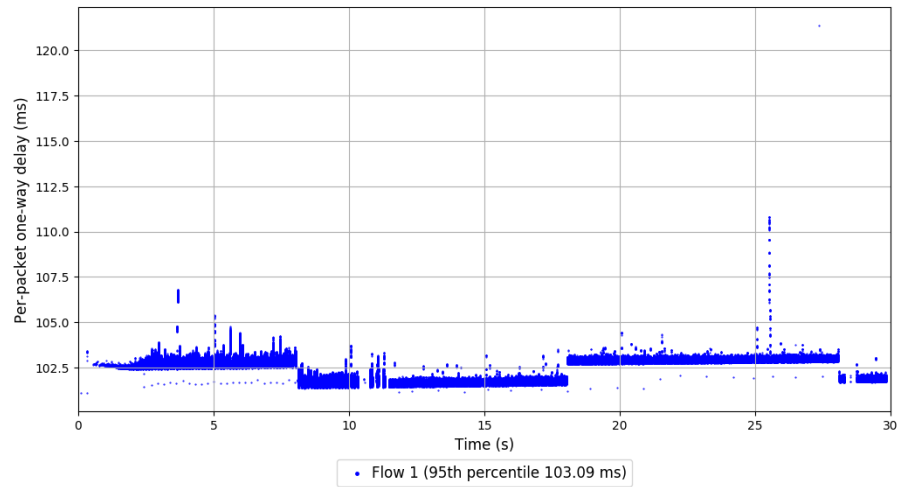
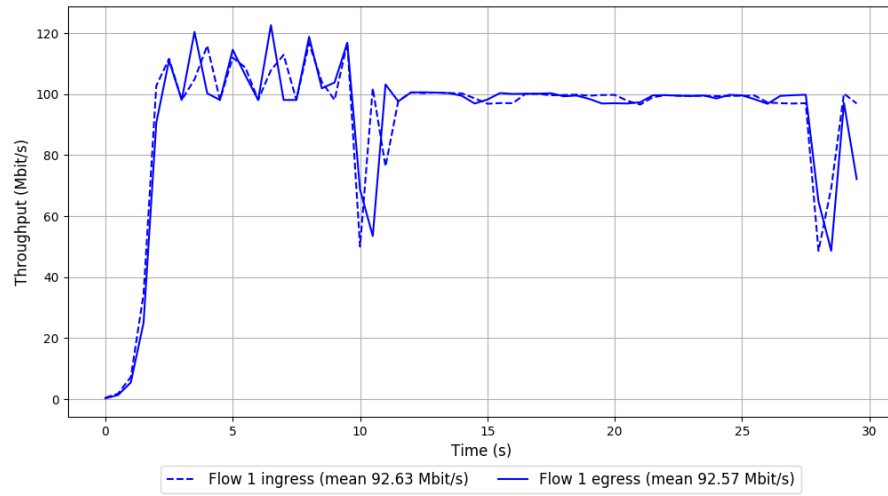
-- Flow 1:

Average throughput: 92.57 Mbit/s

95th percentile per-packet one-way delay: 103.091 ms

Loss rate: 0.87%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-04-10 05:03:14

End at: 2018-04-10 05:03:44

Below is generated by plot.py at 2018-04-10 09:44:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.50 Mbit/s

95th percentile per-packet one-way delay: 94.730 ms

Loss rate: 0.79%

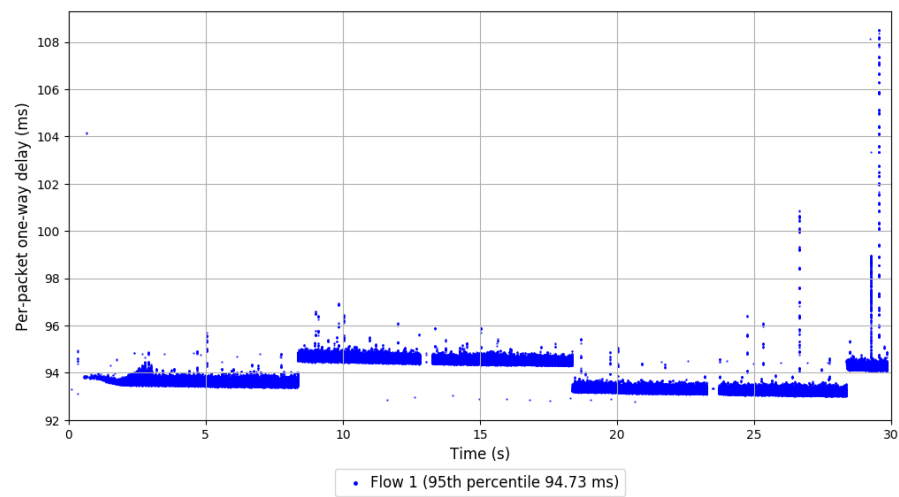
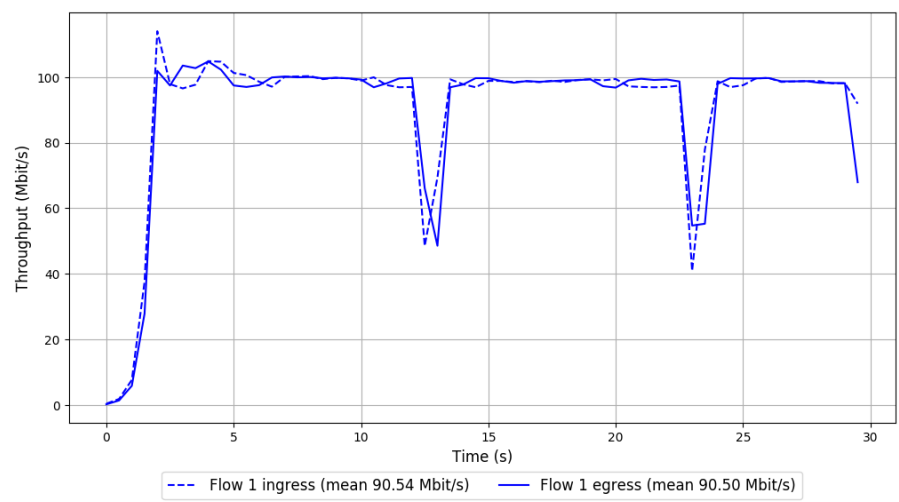
-- Flow 1:

Average throughput: 90.50 Mbit/s

95th percentile per-packet one-way delay: 94.730 ms

Loss rate: 0.79%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-04-10 05:18:23

End at: 2018-04-10 05:18:53

Below is generated by plot.py at 2018-04-10 09:44:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.09 Mbit/s

95th percentile per-packet one-way delay: 98.111 ms

Loss rate: 0.78%

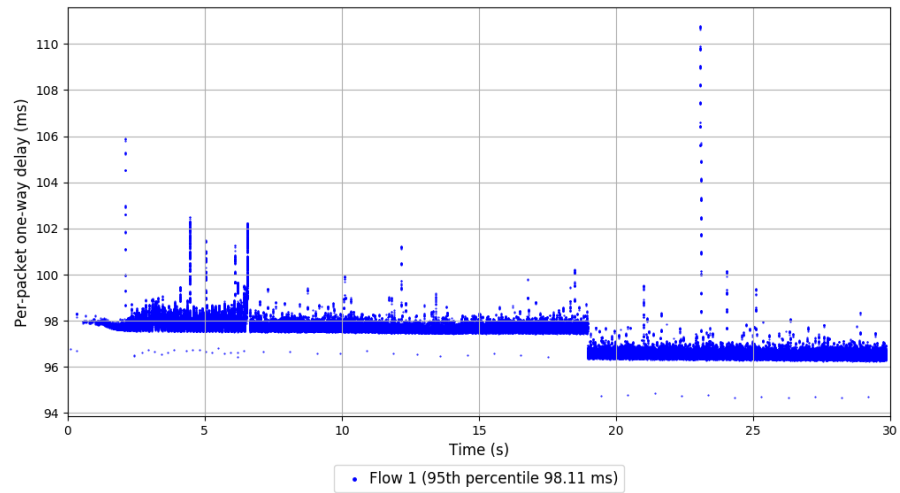
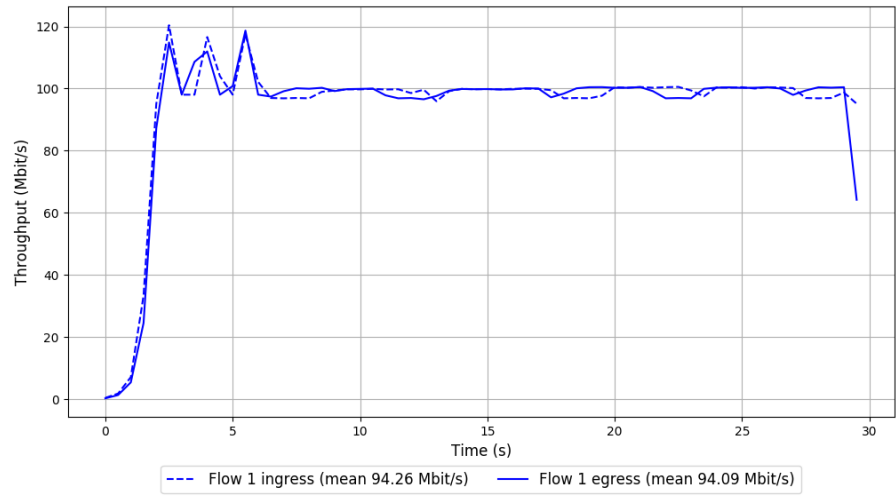
-- Flow 1:

Average throughput: 94.09 Mbit/s

95th percentile per-packet one-way delay: 98.111 ms

Loss rate: 0.78%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-04-10 05:33:27

End at: 2018-04-10 05:33:57

Below is generated by plot.py at 2018-04-10 09:44:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.15 Mbit/s

95th percentile per-packet one-way delay: 87.937 ms

Loss rate: 0.13%

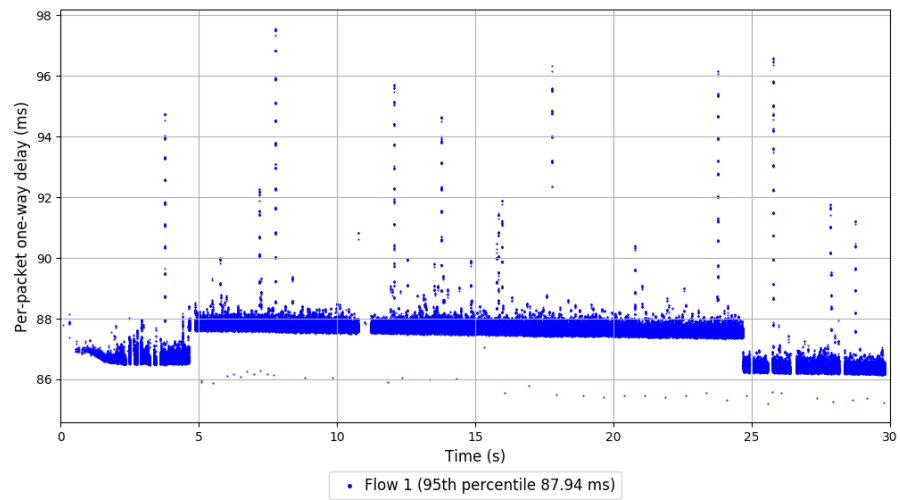
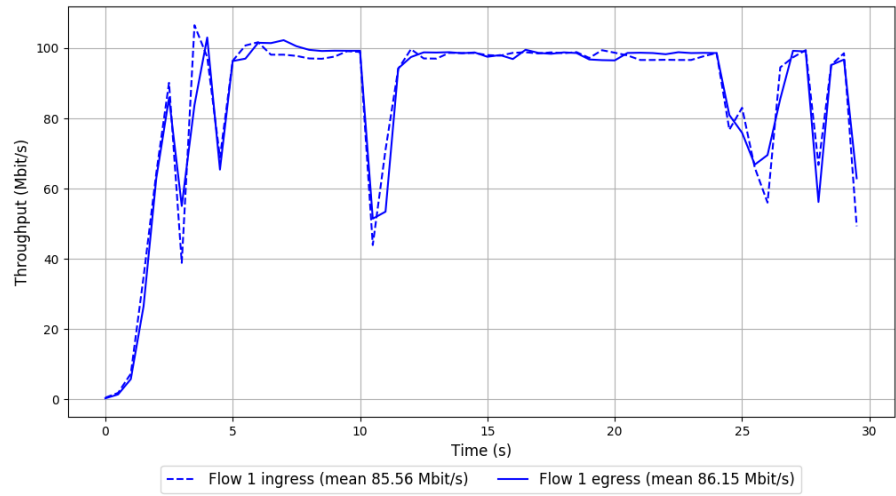
-- Flow 1:

Average throughput: 86.15 Mbit/s

95th percentile per-packet one-way delay: 87.937 ms

Loss rate: 0.13%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-04-10 05:48:33

End at: 2018-04-10 05:49:03

Below is generated by plot.py at 2018-04-10 09:44:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.86 Mbit/s

95th percentile per-packet one-way delay: 101.071 ms

Loss rate: 0.79%

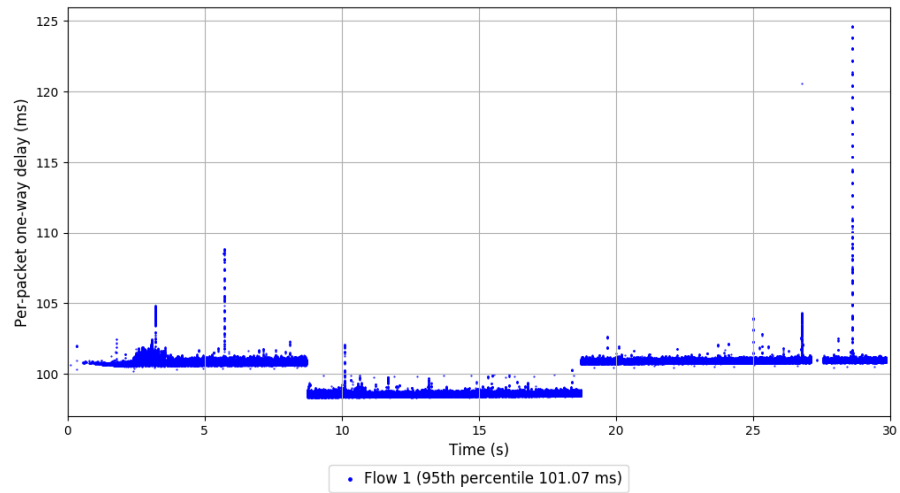
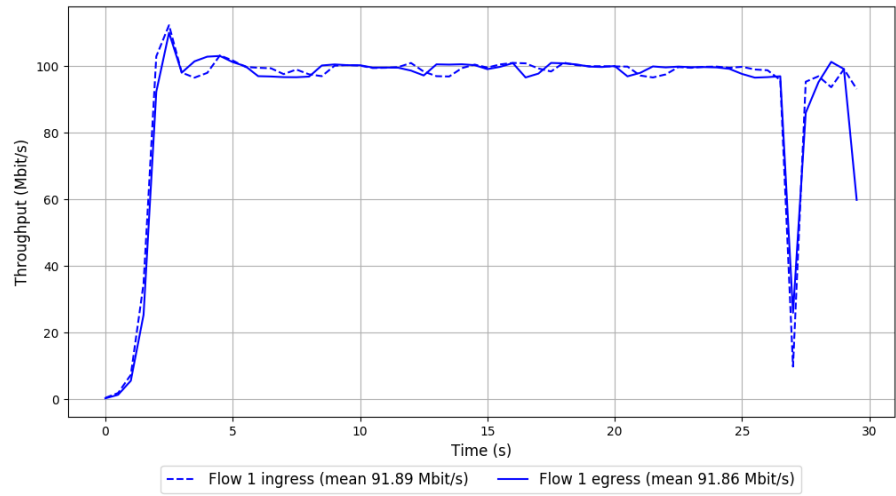
-- Flow 1:

Average throughput: 91.86 Mbit/s

95th percentile per-packet one-way delay: 101.071 ms

Loss rate: 0.79%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-04-10 06:03:58

End at: 2018-04-10 06:04:28

Below is generated by plot.py at 2018-04-10 09:44:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.85 Mbit/s

95th percentile per-packet one-way delay: 99.542 ms

Loss rate: 0.80%

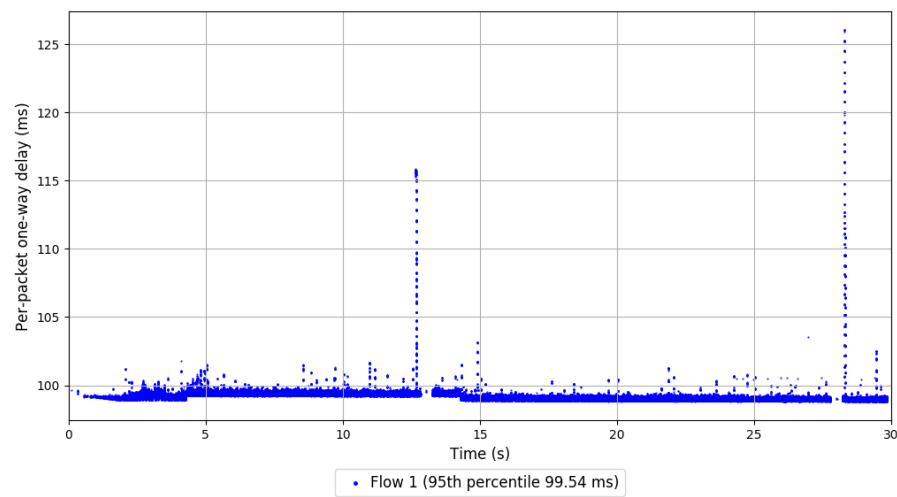
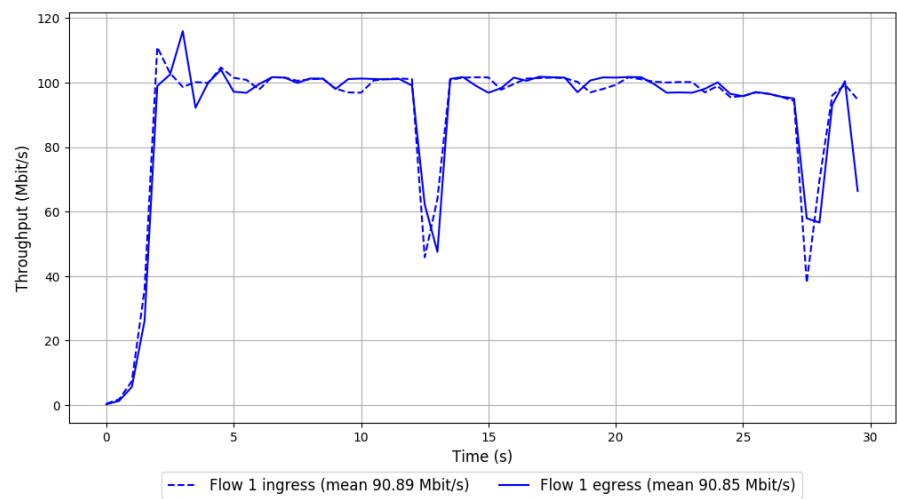
-- Flow 1:

Average throughput: 90.85 Mbit/s

95th percentile per-packet one-way delay: 99.542 ms

Loss rate: 0.80%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-04-10 06:19:17

End at: 2018-04-10 06:19:47

Below is generated by plot.py at 2018-04-10 09:44:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.12 Mbit/s

95th percentile per-packet one-way delay: 109.787 ms

Loss rate: 0.78%

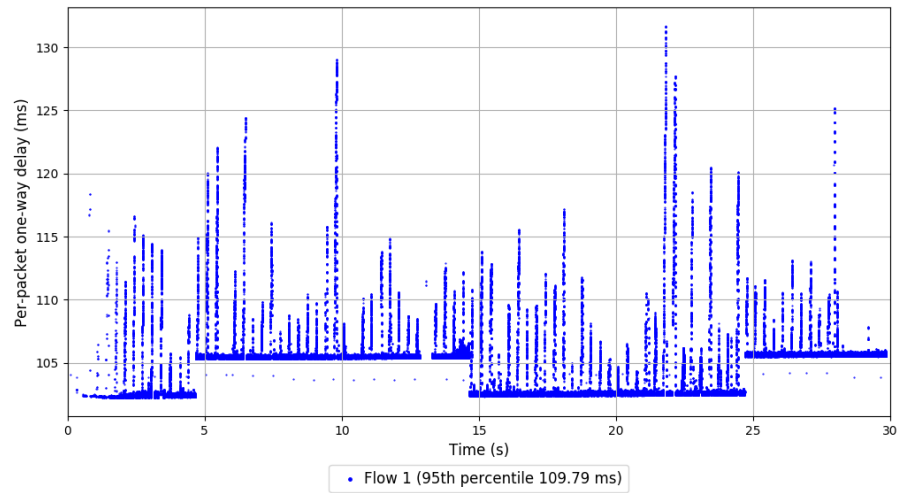
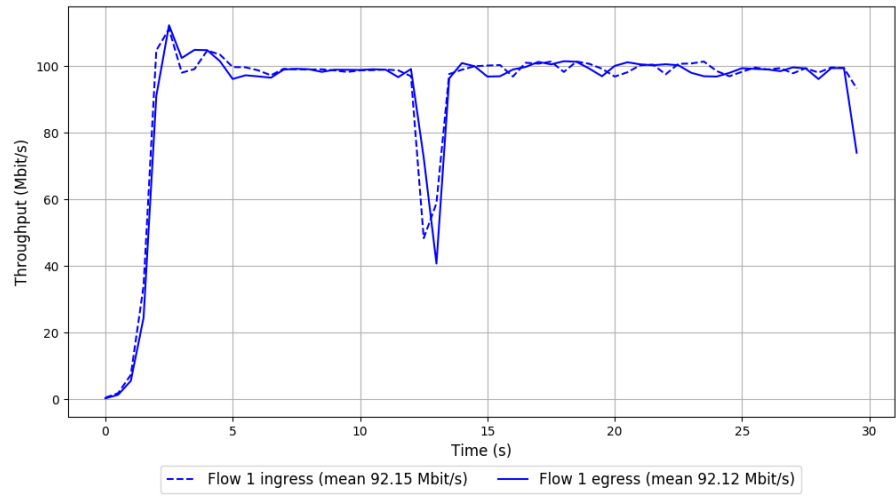
-- Flow 1:

Average throughput: 92.12 Mbit/s

95th percentile per-packet one-way delay: 109.787 ms

Loss rate: 0.78%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-04-10 06:34:29

End at: 2018-04-10 06:34:59

Below is generated by plot.py at 2018-04-10 09:46:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.12 Mbit/s

95th percentile per-packet one-way delay: 107.996 ms

Loss rate: 0.80%

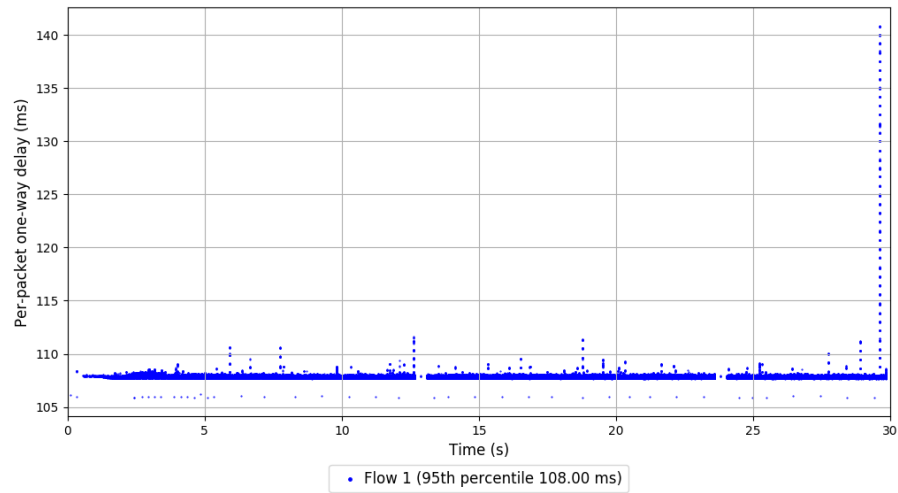
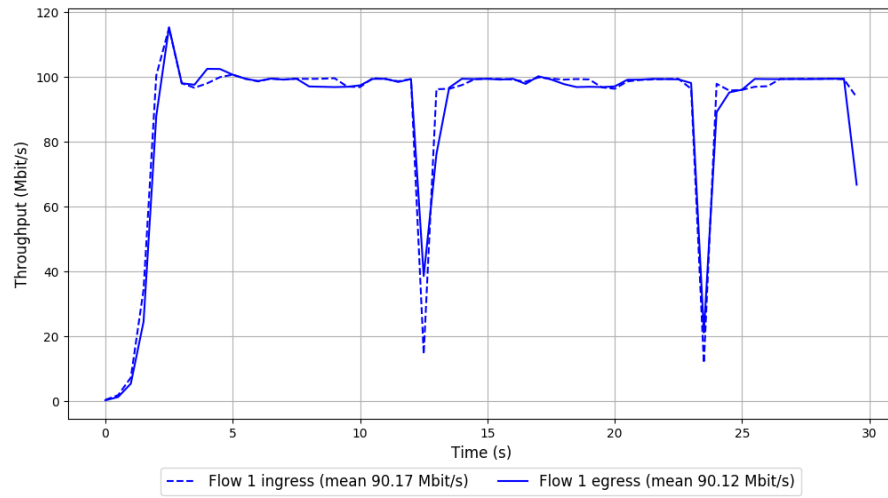
-- Flow 1:

Average throughput: 90.12 Mbit/s

95th percentile per-packet one-way delay: 107.996 ms

Loss rate: 0.80%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-04-10 06:49:12

End at: 2018-04-10 06:49:42

Below is generated by plot.py at 2018-04-10 09:46:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.81 Mbit/s

95th percentile per-packet one-way delay: 108.602 ms

Loss rate: 0.79%

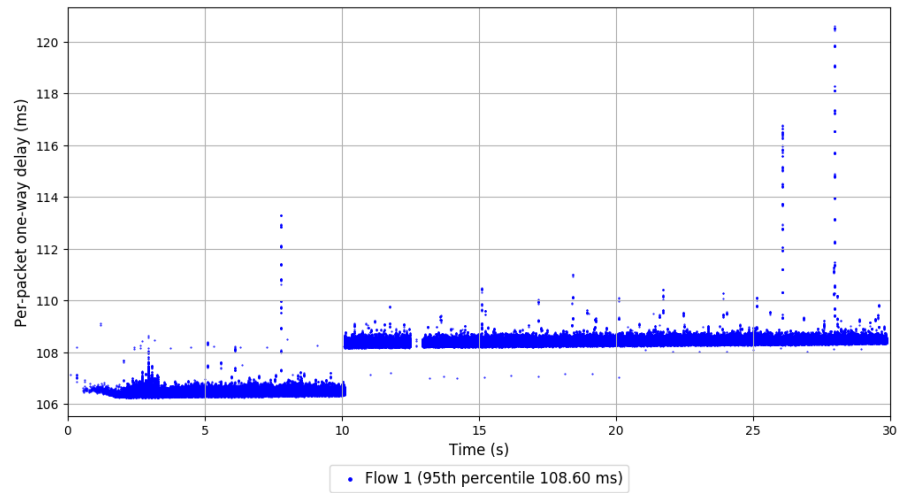
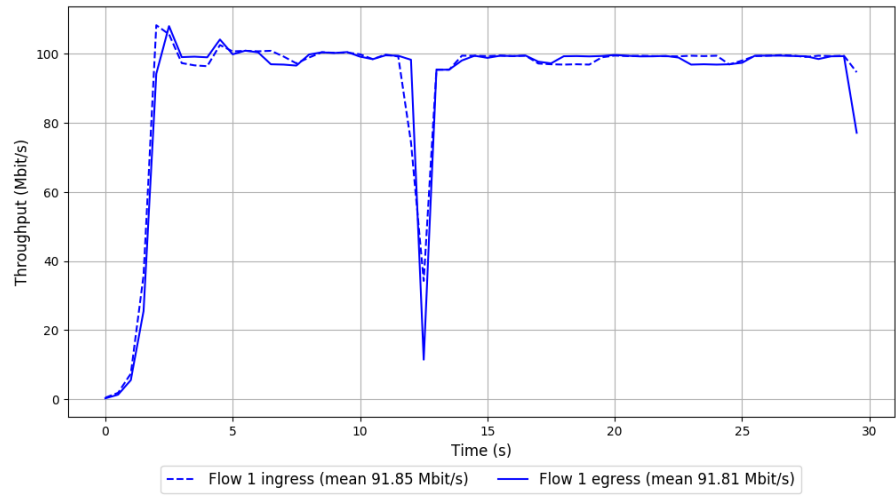
-- Flow 1:

Average throughput: 91.81 Mbit/s

95th percentile per-packet one-way delay: 108.602 ms

Loss rate: 0.79%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-04-10 04:38:09

End at: 2018-04-10 04:38:39

Below is generated by plot.py at 2018-04-10 09:46:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.23 Mbit/s

95th percentile per-packet one-way delay: 114.623 ms

Loss rate: 0.87%

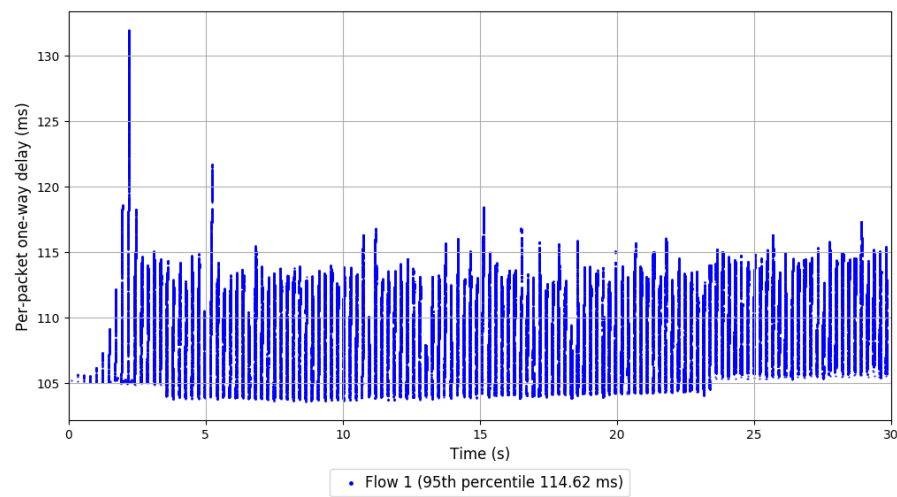
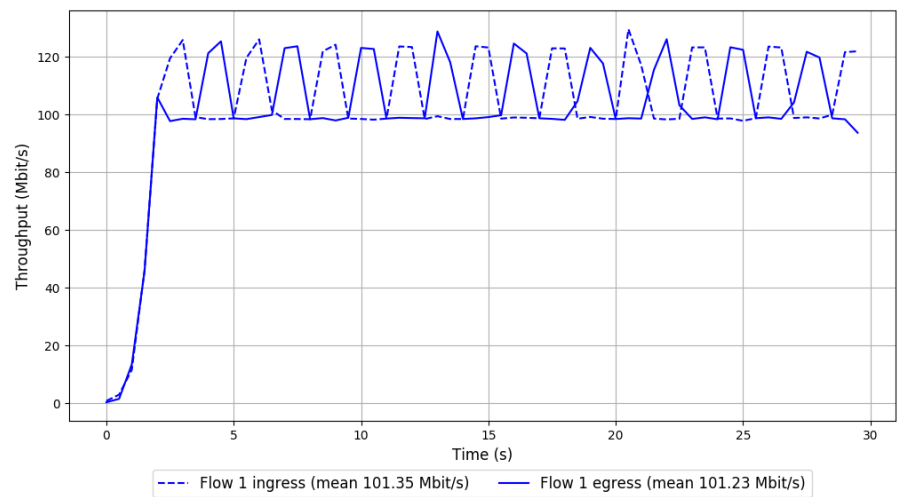
-- Flow 1:

Average throughput: 101.23 Mbit/s

95th percentile per-packet one-way delay: 114.623 ms

Loss rate: 0.87%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-04-10 04:53:16

End at: 2018-04-10 04:53:46

Below is generated by plot.py at 2018-04-10 09:46:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.37 Mbit/s

95th percentile per-packet one-way delay: 113.048 ms

Loss rate: 0.77%

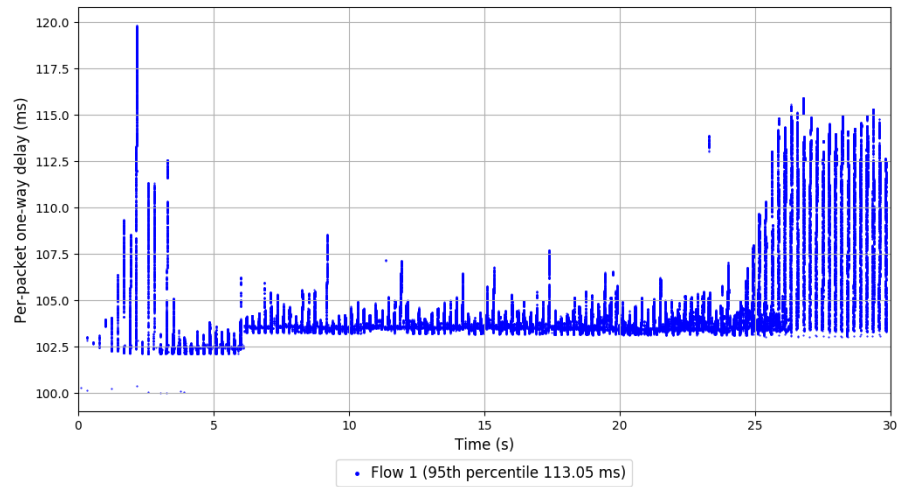
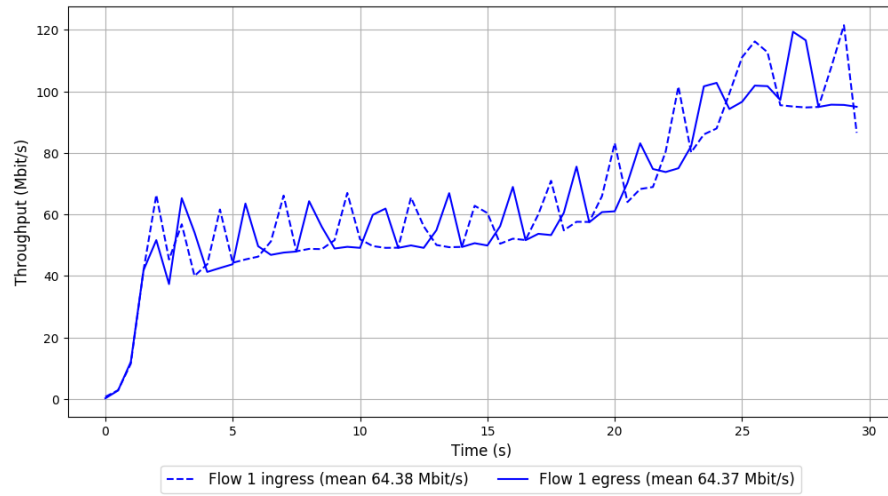
-- Flow 1:

Average throughput: 64.37 Mbit/s

95th percentile per-packet one-way delay: 113.048 ms

Loss rate: 0.77%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-04-10 05:08:24

End at: 2018-04-10 05:08:54

Below is generated by plot.py at 2018-04-10 09:46:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.40 Mbit/s

95th percentile per-packet one-way delay: 108.328 ms

Loss rate: 0.66%

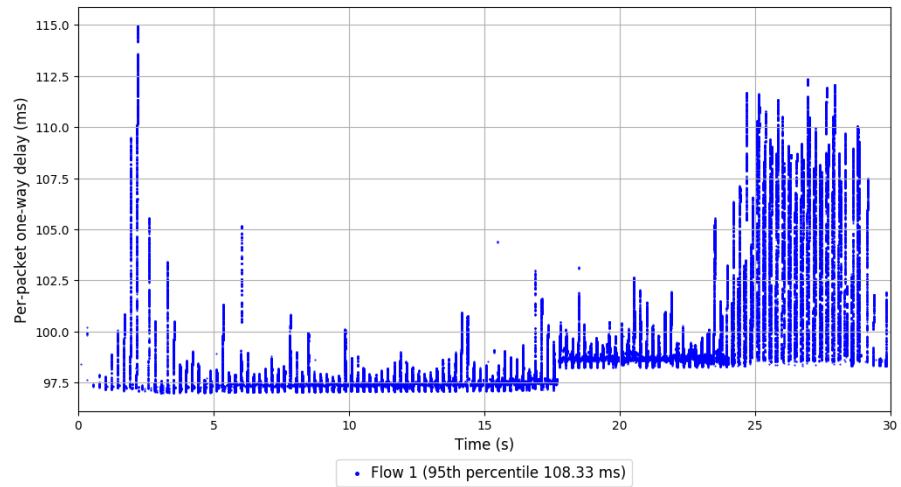
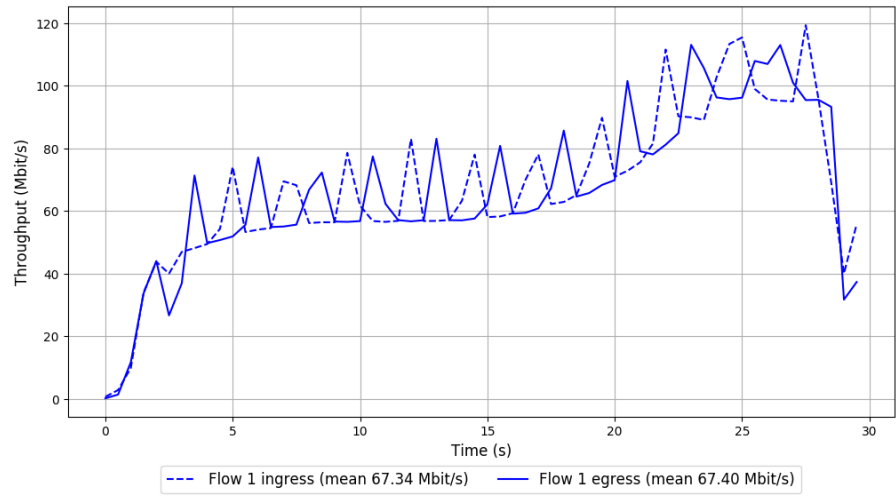
-- Flow 1:

Average throughput: 67.40 Mbit/s

95th percentile per-packet one-way delay: 108.328 ms

Loss rate: 0.66%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-04-10 05:23:28

End at: 2018-04-10 05:23:58

Below is generated by plot.py at 2018-04-10 09:46:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.09 Mbit/s

95th percentile per-packet one-way delay: 105.191 ms

Loss rate: 1.10%

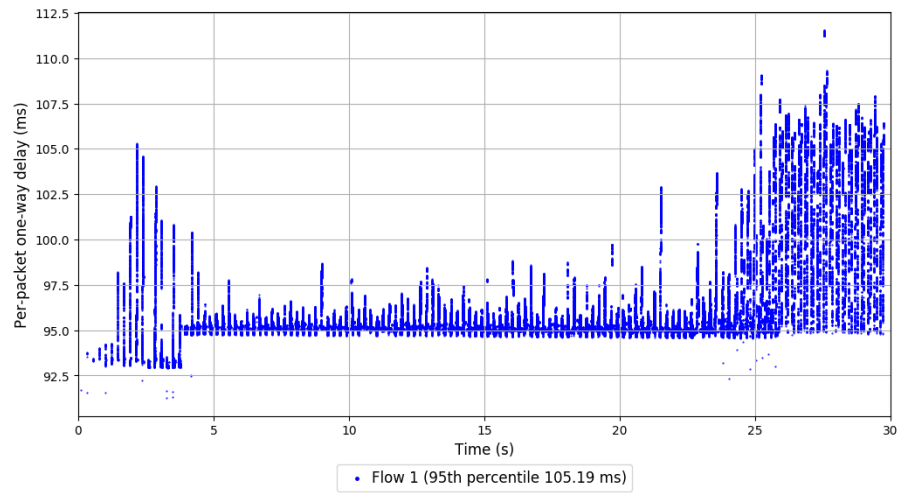
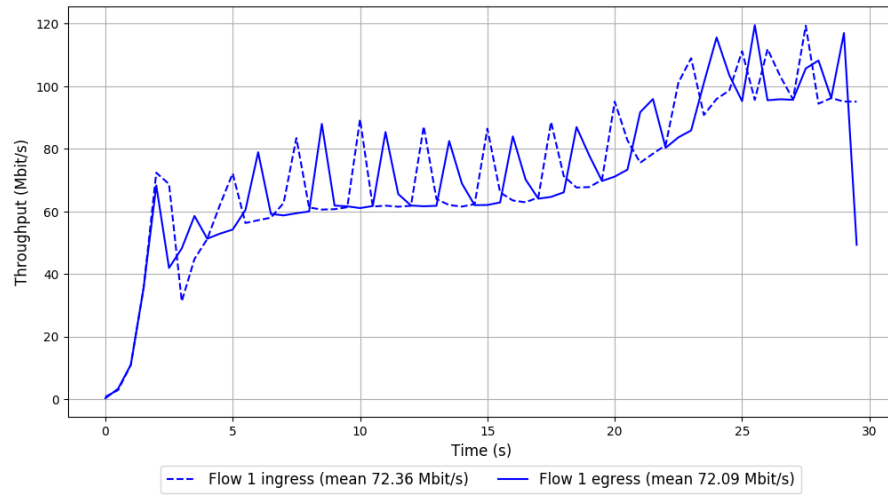
-- Flow 1:

Average throughput: 72.09 Mbit/s

95th percentile per-packet one-way delay: 105.191 ms

Loss rate: 1.10%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-04-10 05:38:31

End at: 2018-04-10 05:39:01

Below is generated by plot.py at 2018-04-10 09:46:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.47 Mbit/s

95th percentile per-packet one-way delay: 96.895 ms

Loss rate: 0.11%

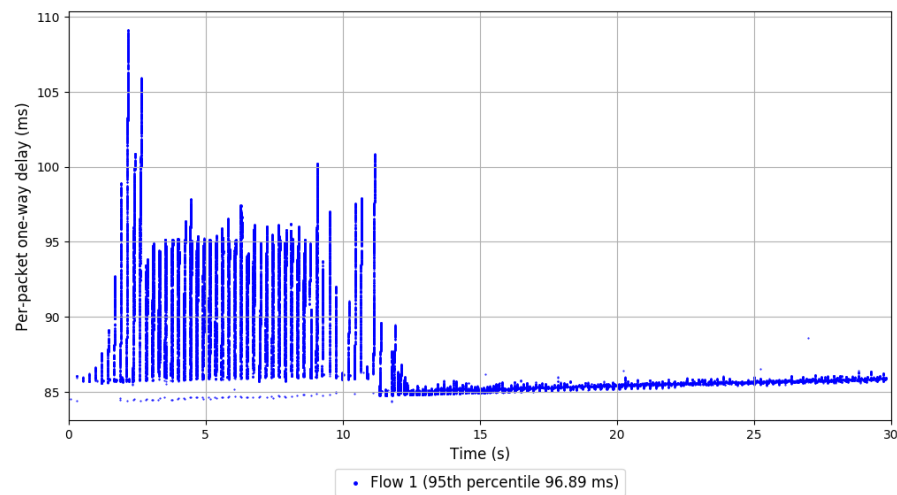
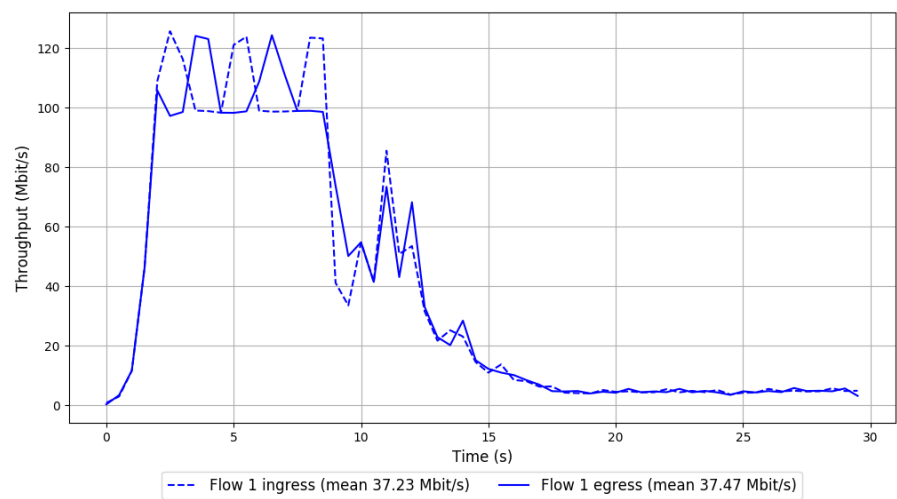
-- Flow 1:

Average throughput: 37.47 Mbit/s

95th percentile per-packet one-way delay: 96.895 ms

Loss rate: 0.11%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-04-10 05:53:45

End at: 2018-04-10 05:54:15

Below is generated by plot.py at 2018-04-10 09:46:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.20 Mbit/s

95th percentile per-packet one-way delay: 112.834 ms

Loss rate: 0.57%

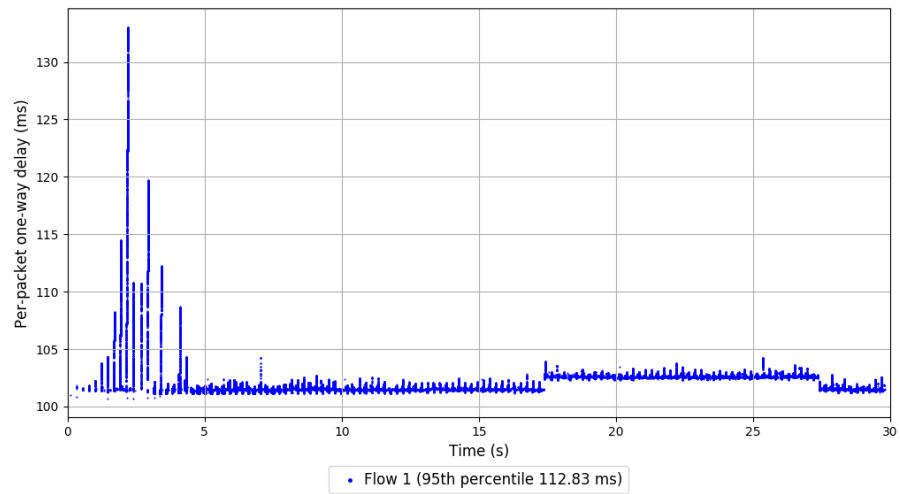
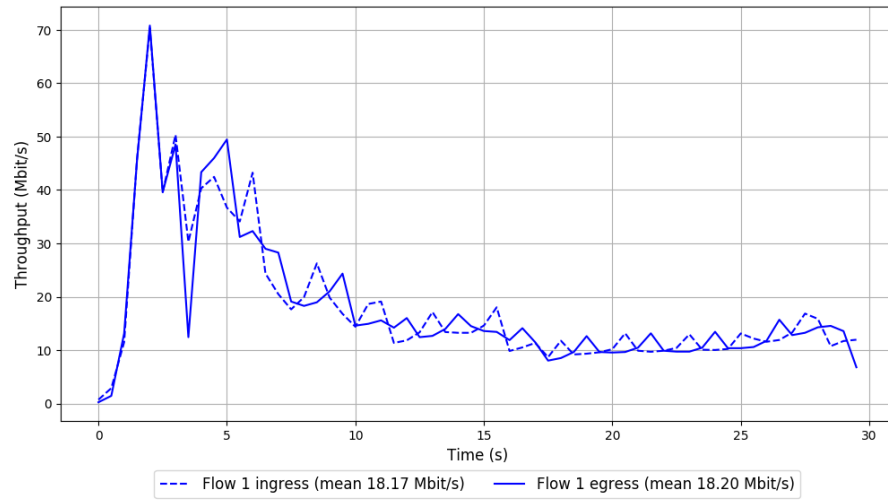
-- Flow 1:

Average throughput: 18.20 Mbit/s

95th percentile per-packet one-way delay: 112.834 ms

Loss rate: 0.57%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-04-10 06:09:04

End at: 2018-04-10 06:09:34

Below is generated by plot.py at 2018-04-10 09:47:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.19 Mbit/s

95th percentile per-packet one-way delay: 110.605 ms

Loss rate: 0.82%

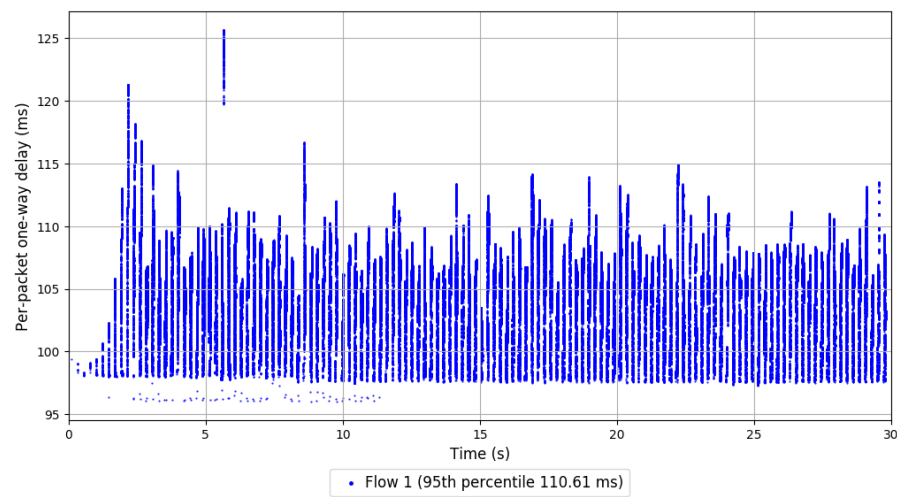
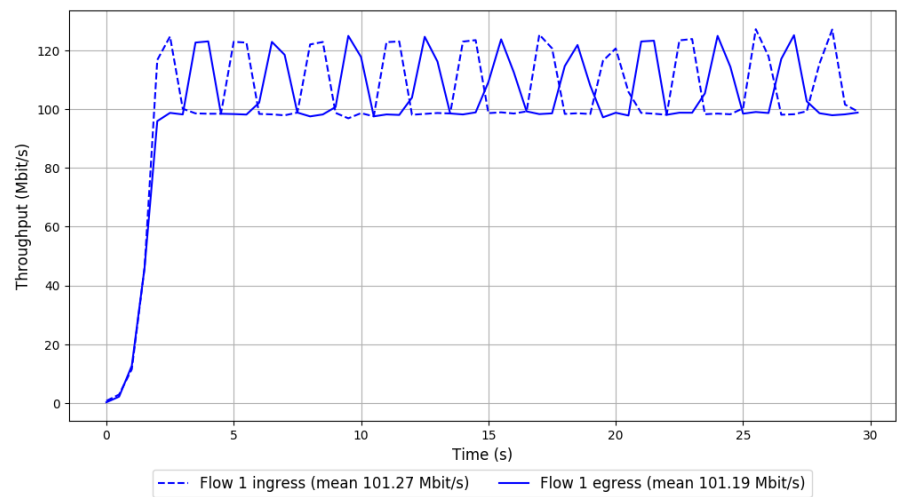
-- Flow 1:

Average throughput: 101.19 Mbit/s

95th percentile per-packet one-way delay: 110.605 ms

Loss rate: 0.82%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-04-10 06:24:24

End at: 2018-04-10 06:24:54

Below is generated by plot.py at 2018-04-10 09:47:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.41 Mbit/s

95th percentile per-packet one-way delay: 110.748 ms

Loss rate: 0.71%

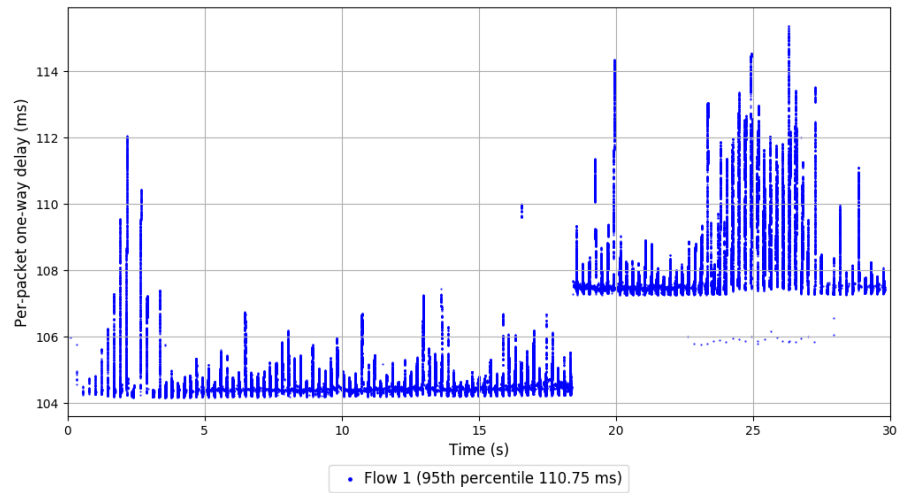
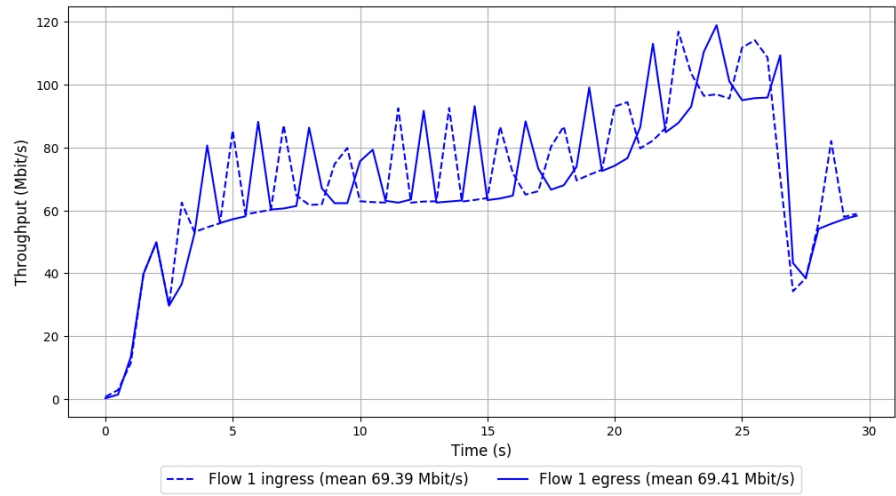
-- Flow 1:

Average throughput: 69.41 Mbit/s

95th percentile per-packet one-way delay: 110.748 ms

Loss rate: 0.71%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-04-10 06:39:27

End at: 2018-04-10 06:39:57

Below is generated by plot.py at 2018-04-10 09:47:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.65 Mbit/s

95th percentile per-packet one-way delay: 112.614 ms

Loss rate: 0.54%

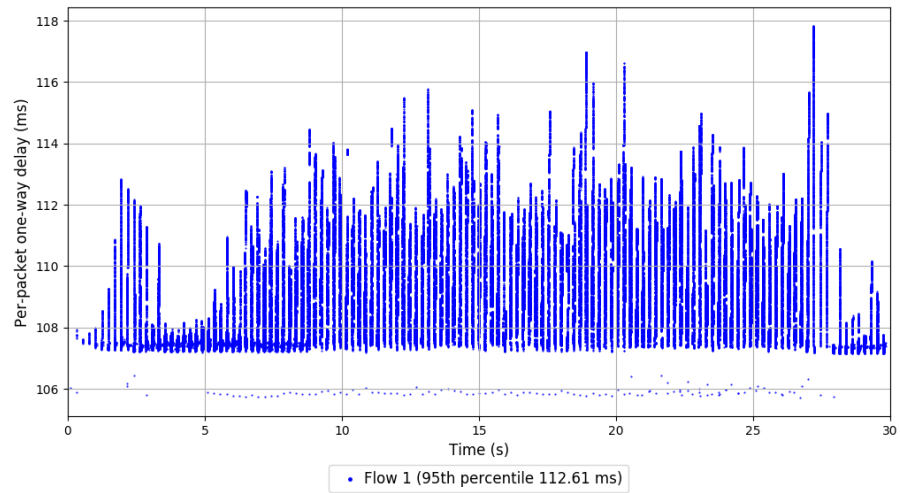
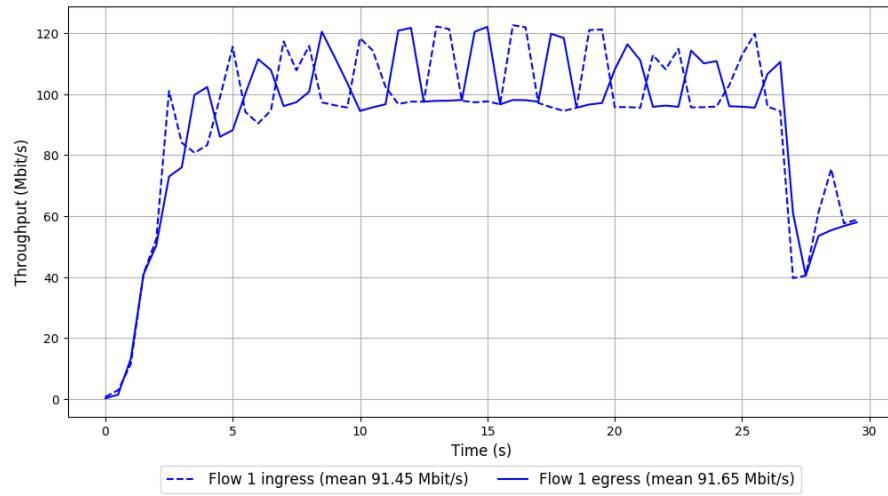
-- Flow 1:

Average throughput: 91.65 Mbit/s

95th percentile per-packet one-way delay: 112.614 ms

Loss rate: 0.54%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-04-10 06:54:12

End at: 2018-04-10 06:54:42

Below is generated by plot.py at 2018-04-10 09:47:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.47 Mbit/s

95th percentile per-packet one-way delay: 112.418 ms

Loss rate: 0.38%

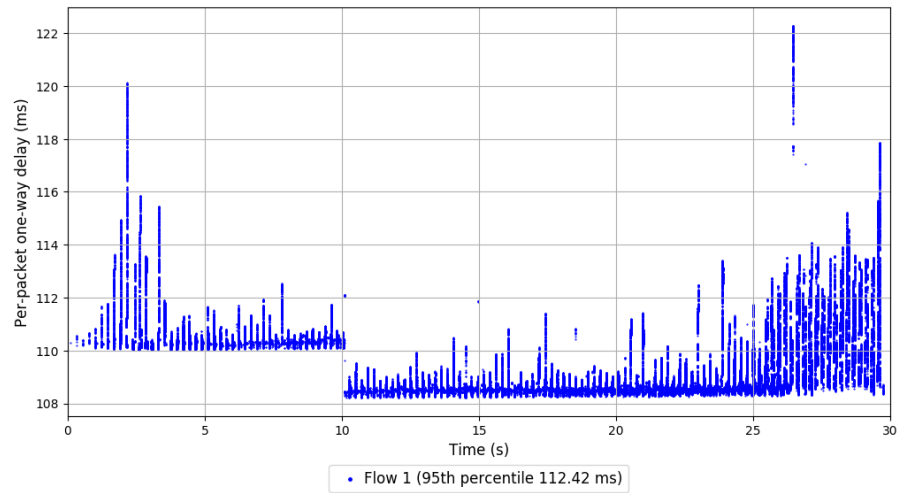
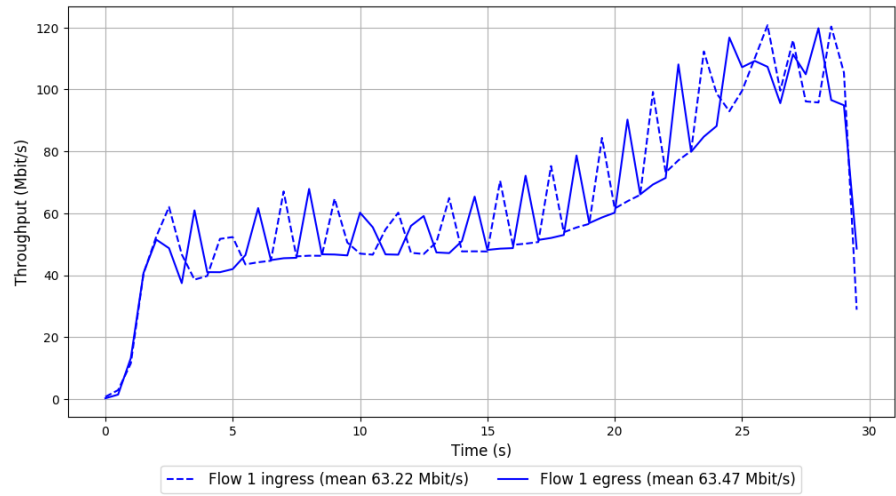
-- Flow 1:

Average throughput: 63.47 Mbit/s

95th percentile per-packet one-way delay: 112.418 ms

Loss rate: 0.38%

Run 10: Report of TCP Cubic — Data Link

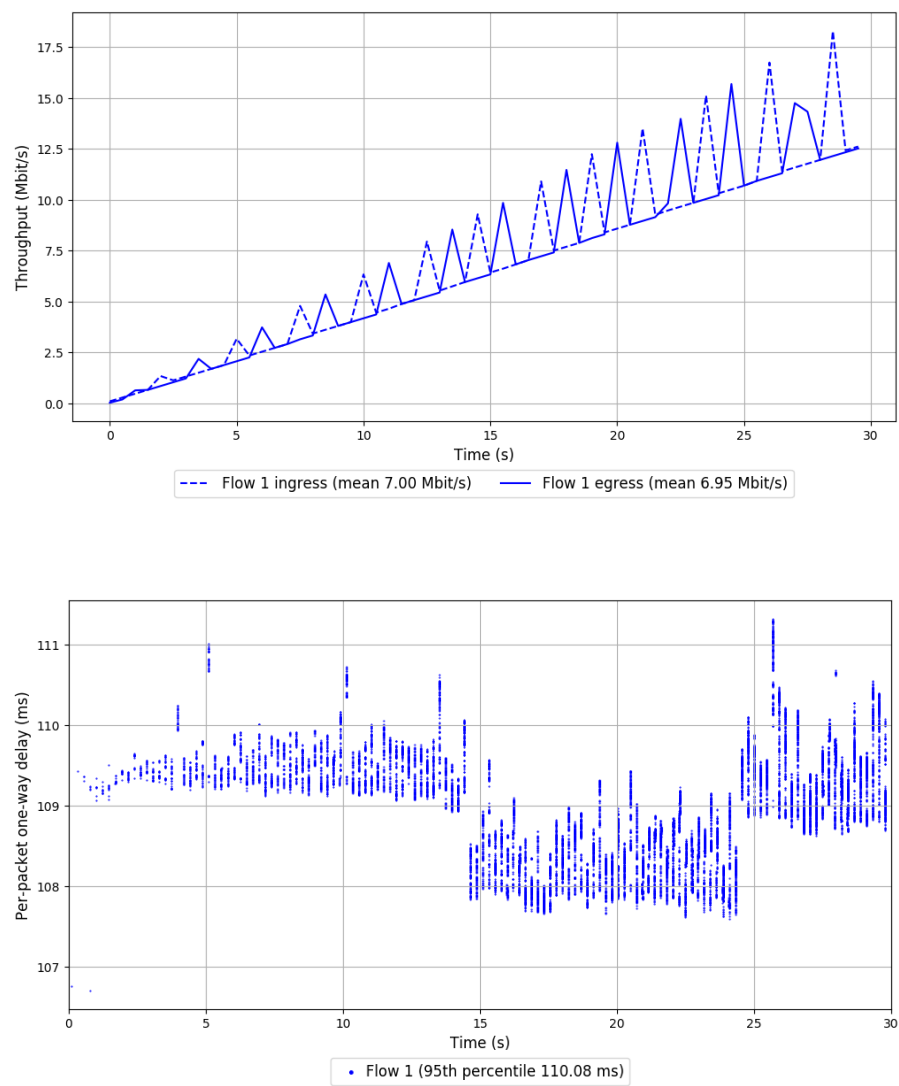


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-10 04:35:28
End at: 2018-04-10 04:35:58

# Below is generated by plot.py at 2018-04-10 09:47:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.95 Mbit/s
95th percentile per-packet one-way delay: 110.083 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 6.95 Mbit/s
95th percentile per-packet one-way delay: 110.083 ms
Loss rate: 1.51%
```

Run 1: Report of LEDBAT — Data Link

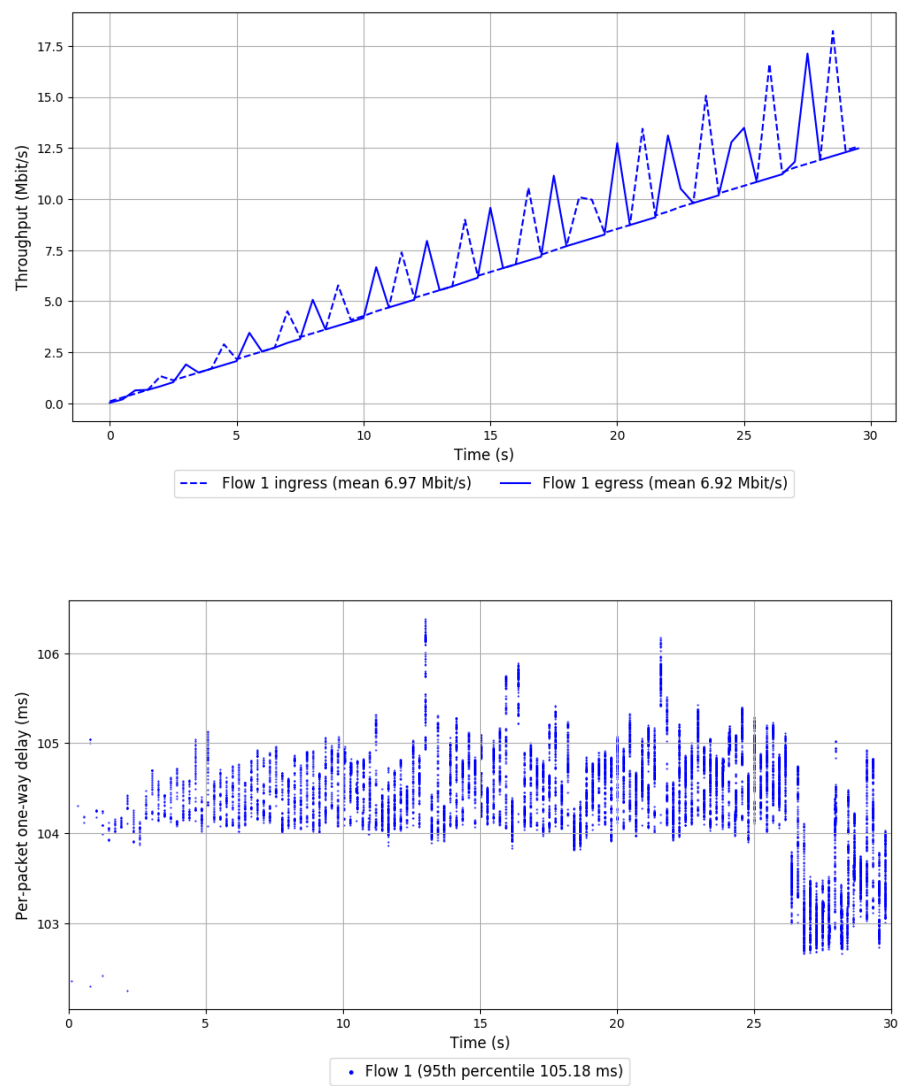


```
Run 2: Statistics of LEDBAT

Start at: 2018-04-10 04:50:56
End at: 2018-04-10 04:51:26

# Below is generated by plot.py at 2018-04-10 09:47:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.92 Mbit/s
95th percentile per-packet one-way delay: 105.179 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 6.92 Mbit/s
95th percentile per-packet one-way delay: 105.179 ms
Loss rate: 1.51%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-04-10 05:06:02

End at: 2018-04-10 05:06:32

Below is generated by plot.py at 2018-04-10 09:47:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.73 Mbit/s

95th percentile per-packet one-way delay: 98.925 ms

Loss rate: 1.54%

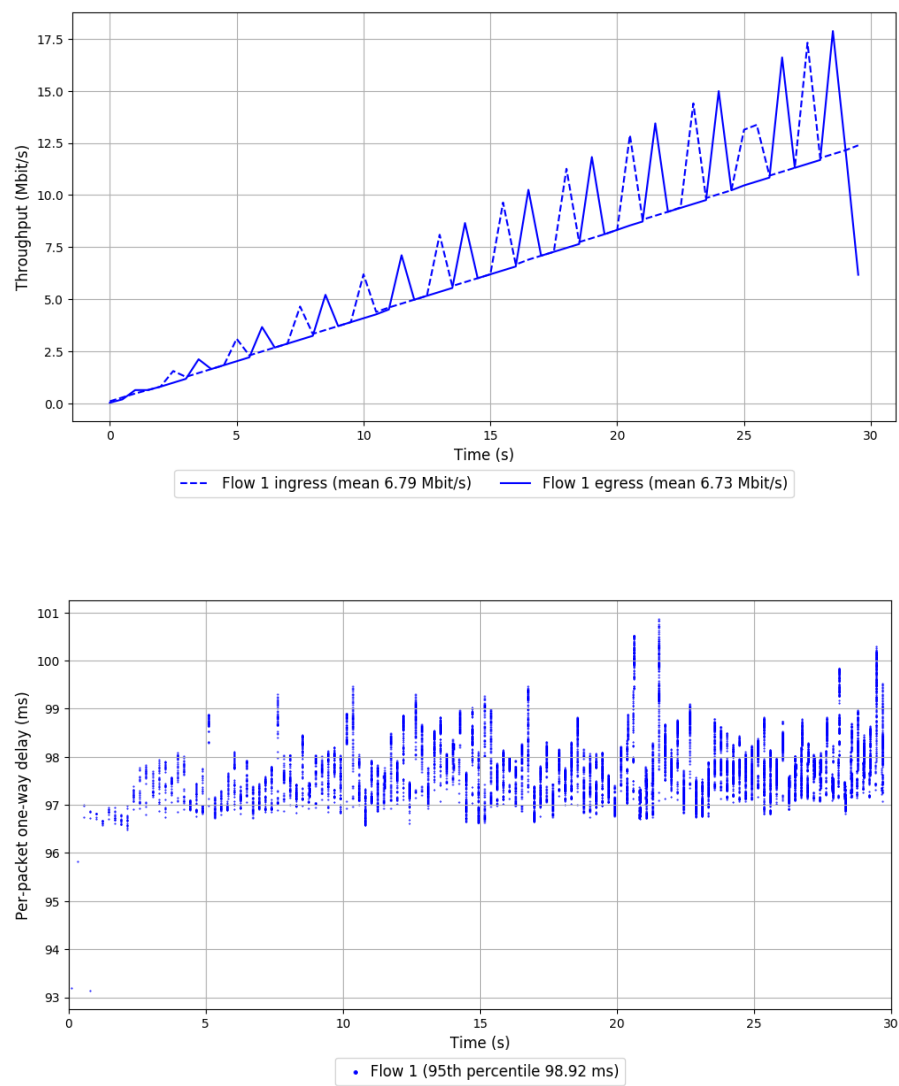
-- Flow 1:

Average throughput: 6.73 Mbit/s

95th percentile per-packet one-way delay: 98.925 ms

Loss rate: 1.54%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-04-10 05:21:07

End at: 2018-04-10 05:21:37

Below is generated by plot.py at 2018-04-10 09:47:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.83 Mbit/s

95th percentile per-packet one-way delay: 97.783 ms

Loss rate: 1.53%

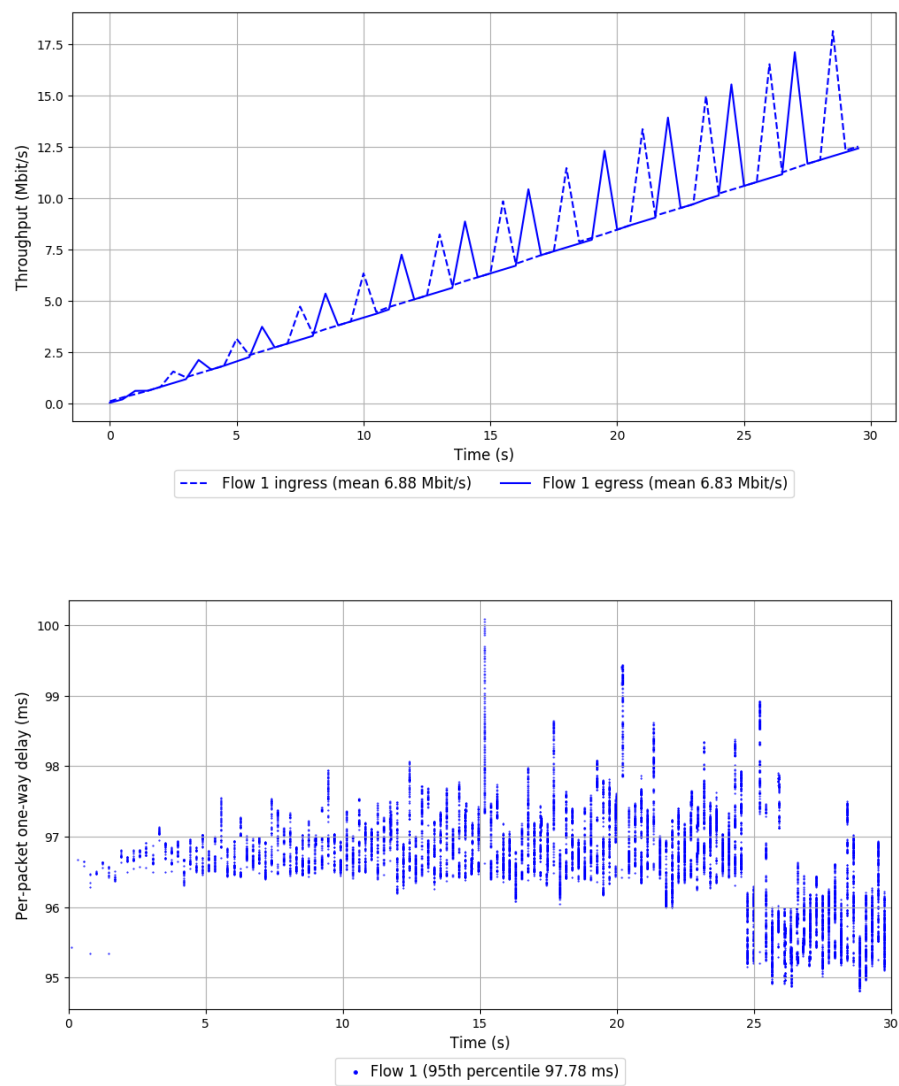
-- Flow 1:

Average throughput: 6.83 Mbit/s

95th percentile per-packet one-way delay: 97.783 ms

Loss rate: 1.53%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-04-10 05:36:09

End at: 2018-04-10 05:36:39

Below is generated by plot.py at 2018-04-10 09:47:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.80 Mbit/s

95th percentile per-packet one-way delay: 87.060 ms

Loss rate: 0.36%

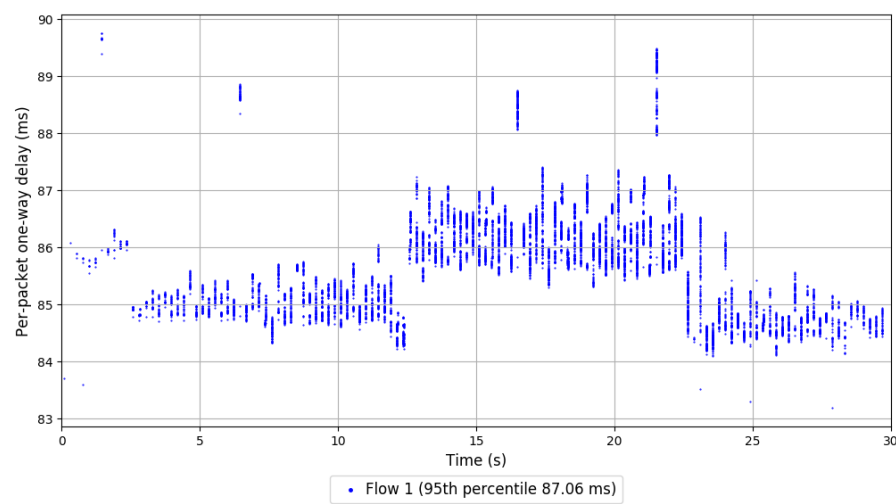
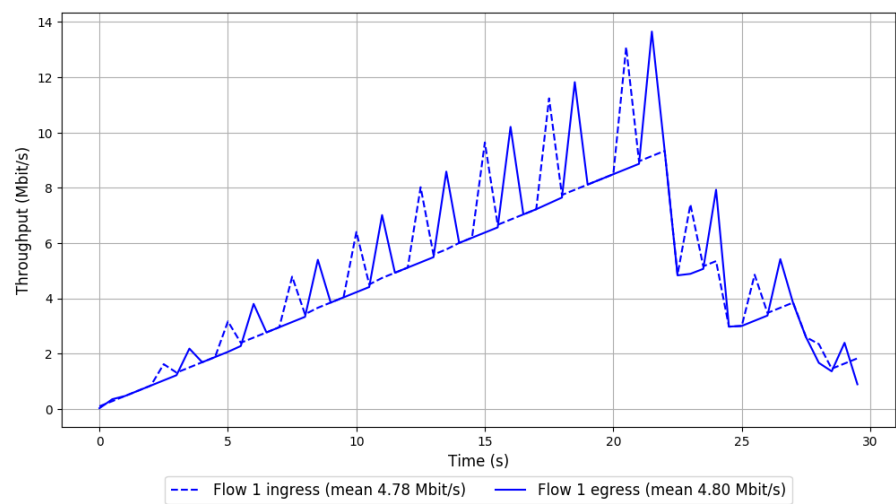
-- Flow 1:

Average throughput: 4.80 Mbit/s

95th percentile per-packet one-way delay: 87.060 ms

Loss rate: 0.36%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-04-10 05:51:22

End at: 2018-04-10 05:51:52

Below is generated by plot.py at 2018-04-10 09:47:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.56 Mbit/s

95th percentile per-packet one-way delay: 102.272 ms

Loss rate: 1.62%

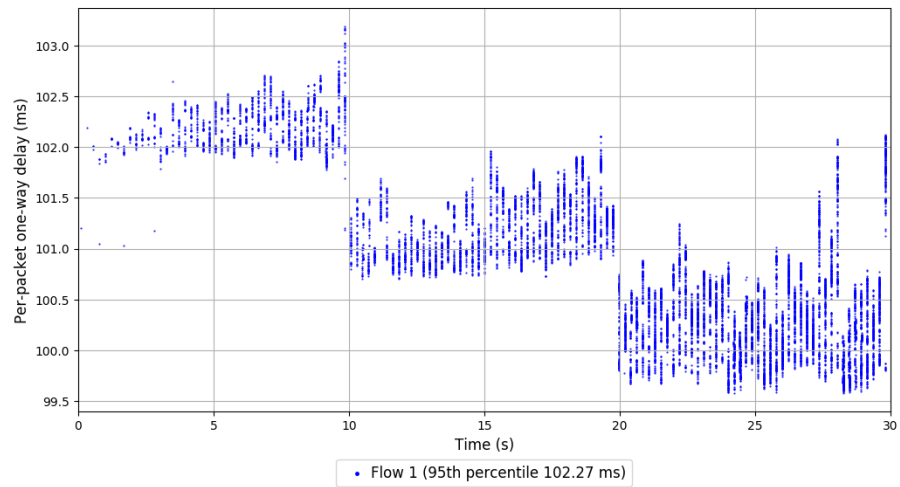
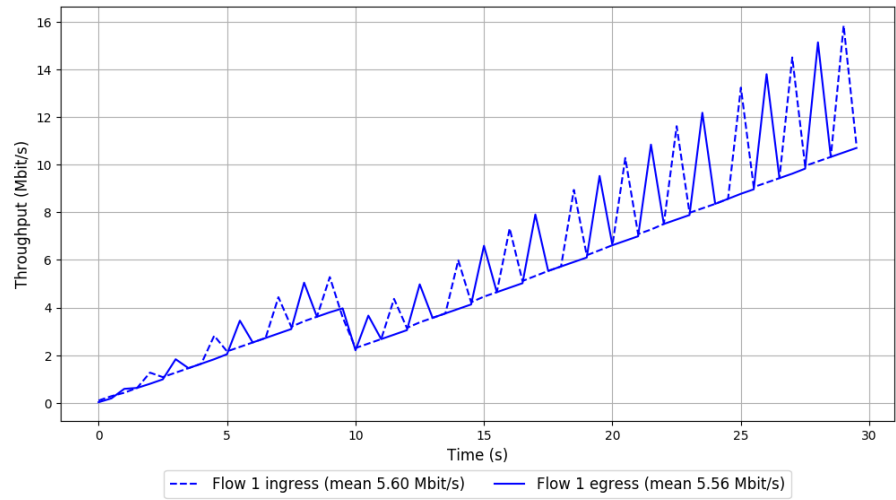
-- Flow 1:

Average throughput: 5.56 Mbit/s

95th percentile per-packet one-way delay: 102.272 ms

Loss rate: 1.62%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-04-10 06:06:37

End at: 2018-04-10 06:07:07

Below is generated by plot.py at 2018-04-10 09:47:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.04 Mbit/s

95th percentile per-packet one-way delay: 100.566 ms

Loss rate: 1.52%

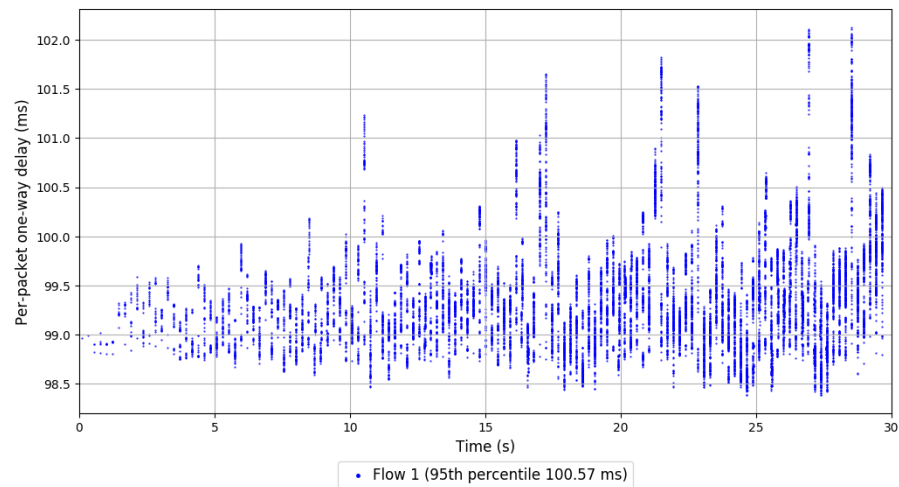
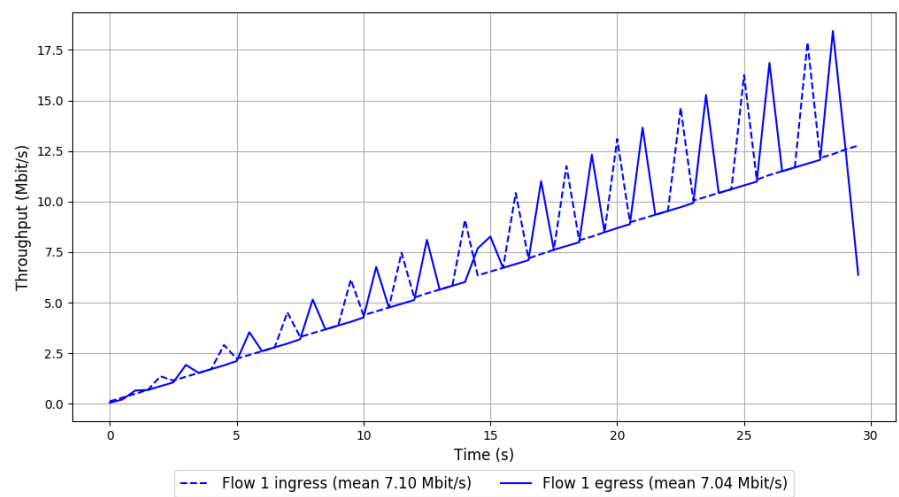
-- Flow 1:

Average throughput: 7.04 Mbit/s

95th percentile per-packet one-way delay: 100.566 ms

Loss rate: 1.52%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-04-10 06:22:08

End at: 2018-04-10 06:22:38

Below is generated by plot.py at 2018-04-10 09:47:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.06 Mbit/s

95th percentile per-packet one-way delay: 107.176 ms

Loss rate: 1.50%

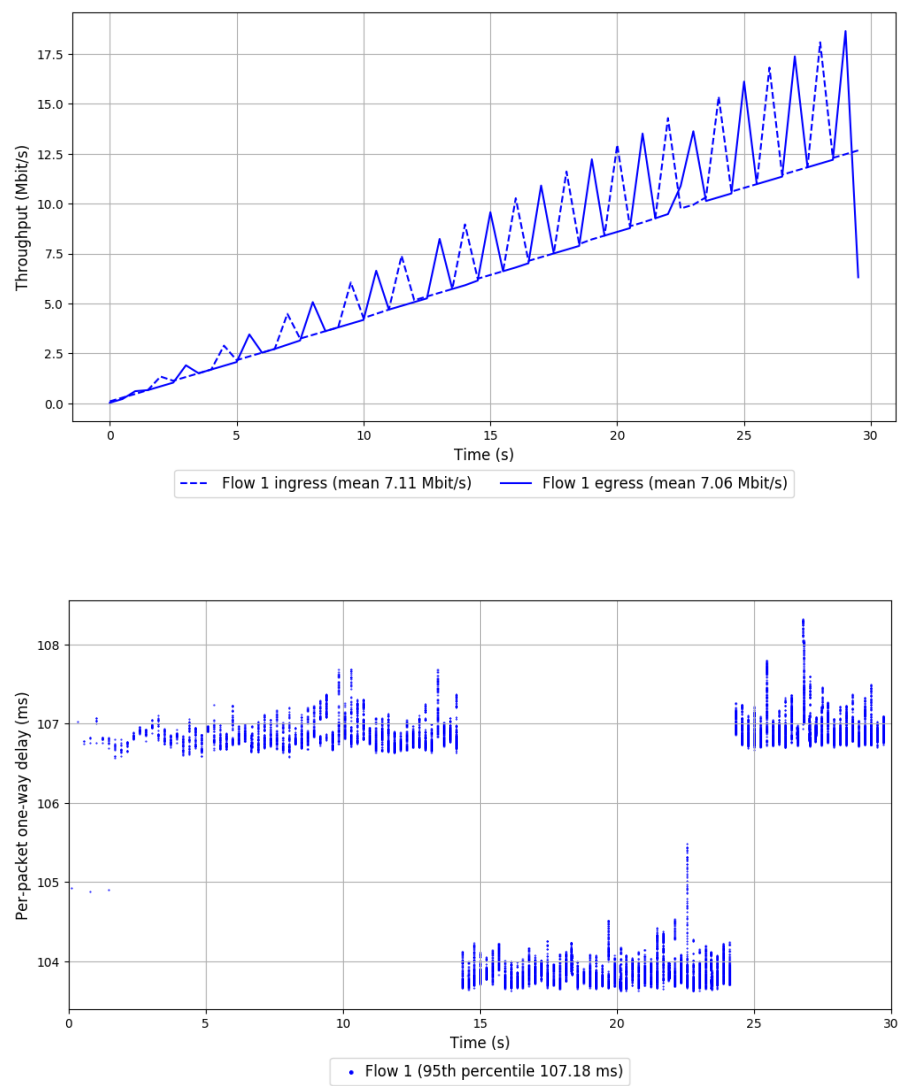
-- Flow 1:

Average throughput: 7.06 Mbit/s

95th percentile per-packet one-way delay: 107.176 ms

Loss rate: 1.50%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-04-10 06:37:09

End at: 2018-04-10 06:37:39

Below is generated by plot.py at 2018-04-10 09:47:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.11 Mbit/s

95th percentile per-packet one-way delay: 108.239 ms

Loss rate: 1.50%

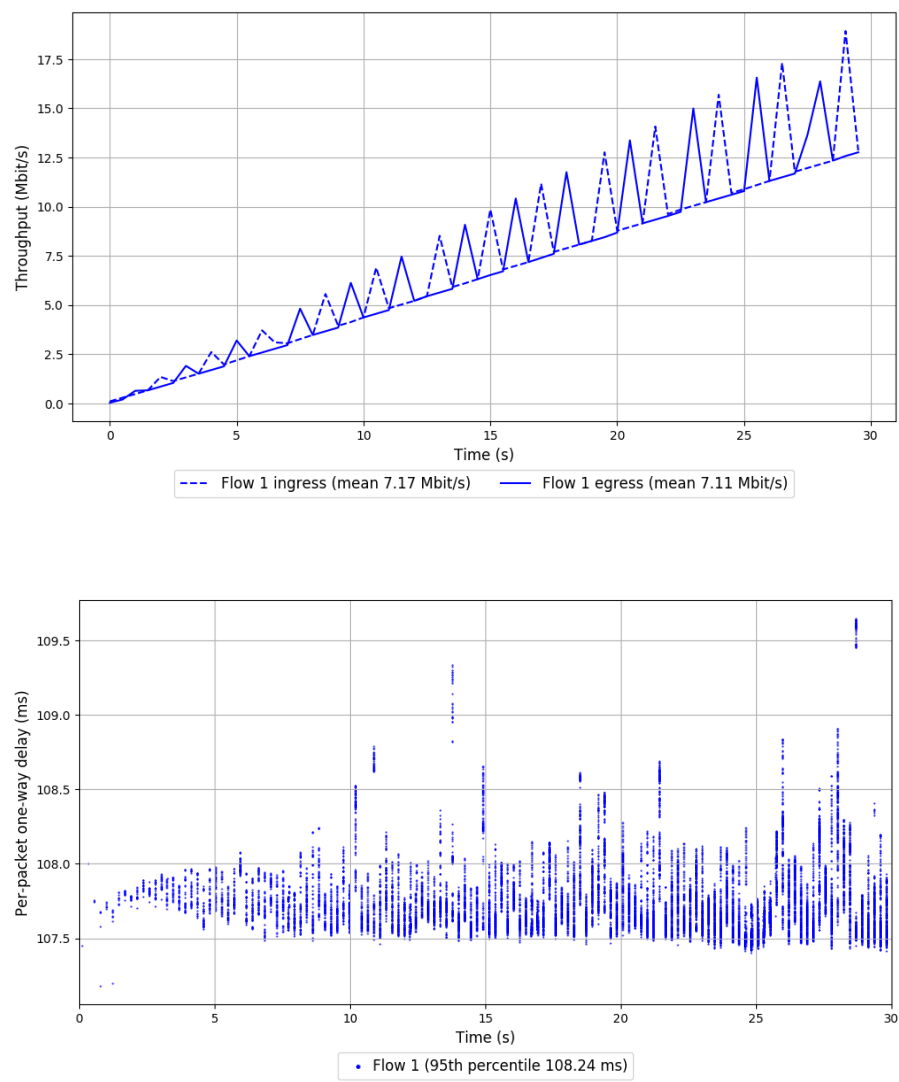
-- Flow 1:

Average throughput: 7.11 Mbit/s

95th percentile per-packet one-way delay: 108.239 ms

Loss rate: 1.50%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-04-10 06:51:50

End at: 2018-04-10 06:52:20

Below is generated by plot.py at 2018-04-10 09:47:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.76 Mbit/s

95th percentile per-packet one-way delay: 110.022 ms

Loss rate: 2.31%

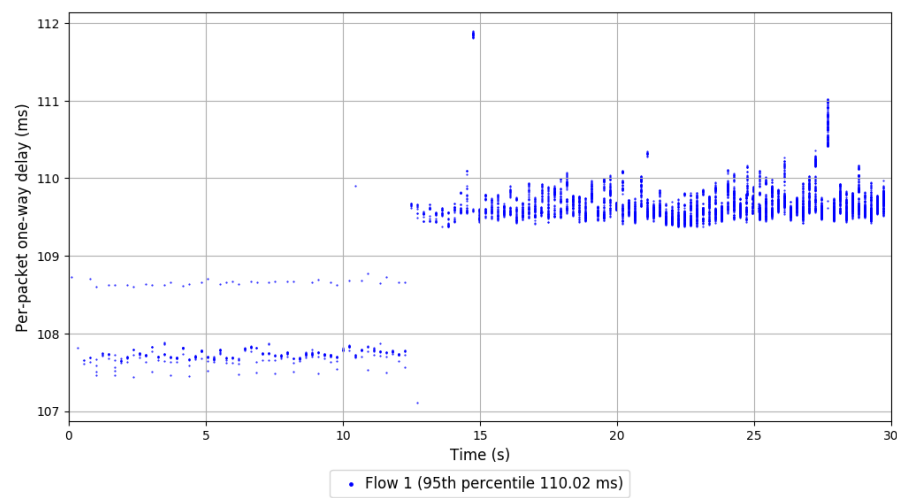
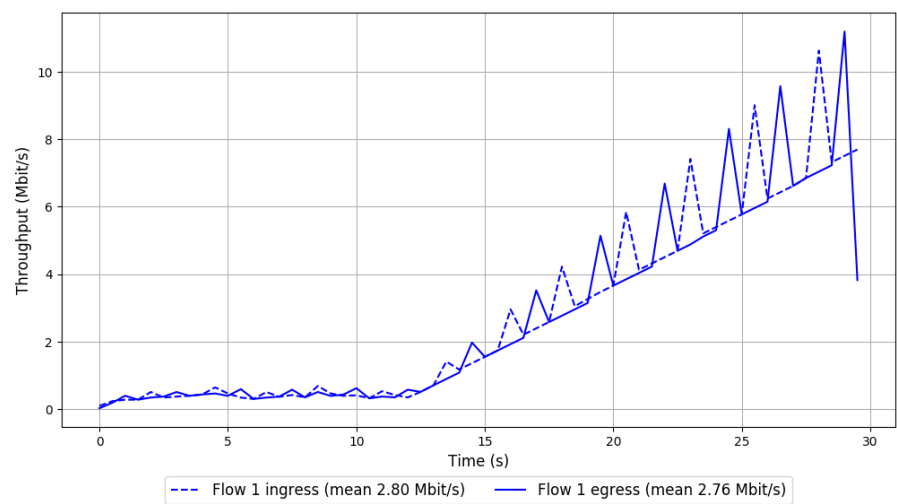
-- Flow 1:

Average throughput: 2.76 Mbit/s

95th percentile per-packet one-way delay: 110.022 ms

Loss rate: 2.31%

Run 10: Report of LEDBAT — Data Link

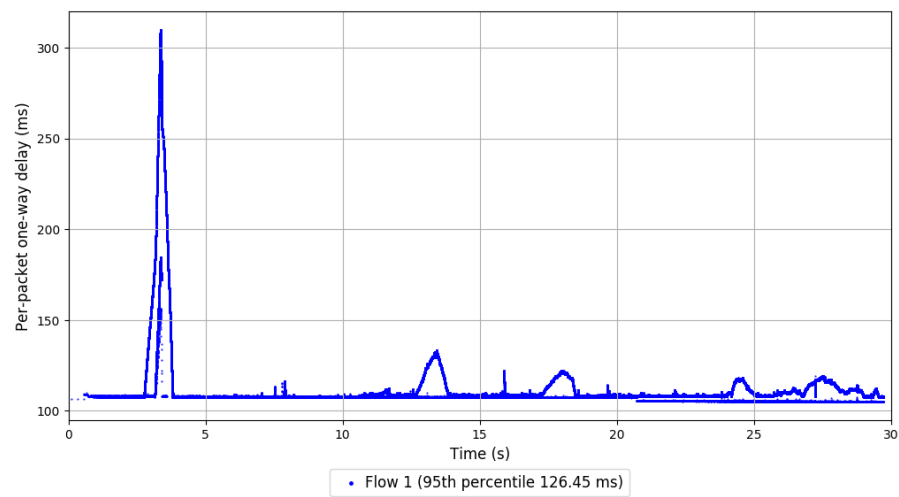
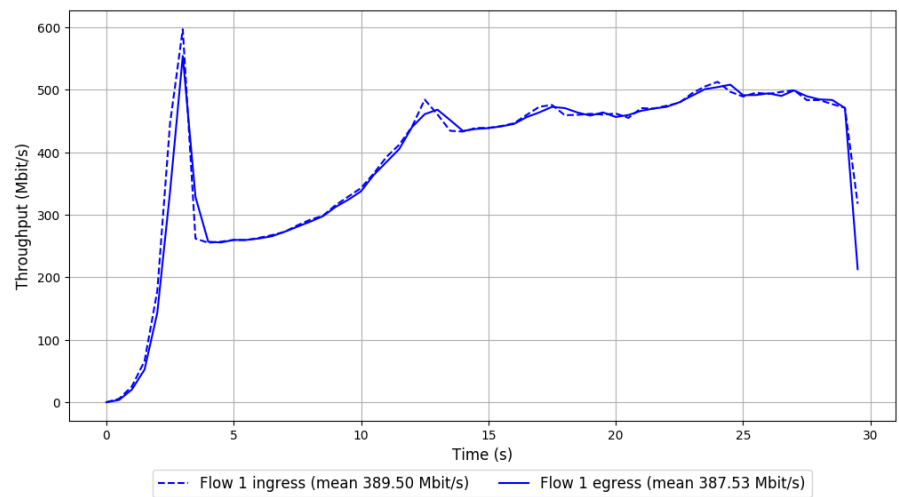


```
Run 1: Statistics of PCC

Start at: 2018-04-10 04:33:31
End at: 2018-04-10 04:34:01

# Below is generated by plot.py at 2018-04-10 09:53:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 387.53 Mbit/s
95th percentile per-packet one-way delay: 126.450 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 387.53 Mbit/s
95th percentile per-packet one-way delay: 126.450 ms
Loss rate: 1.25%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-04-10 04:49:00

End at: 2018-04-10 04:49:30

Below is generated by plot.py at 2018-04-10 09:53:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 352.43 Mbit/s

95th percentile per-packet one-way delay: 239.639 ms

Loss rate: 0.96%

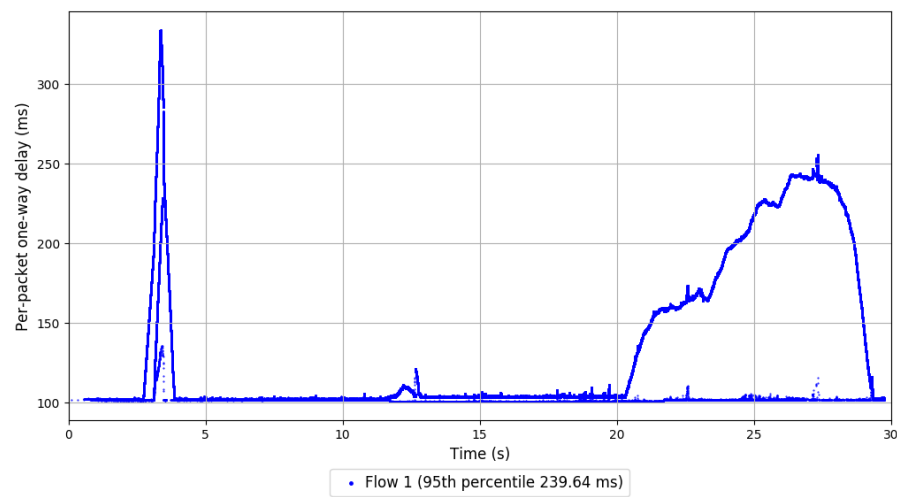
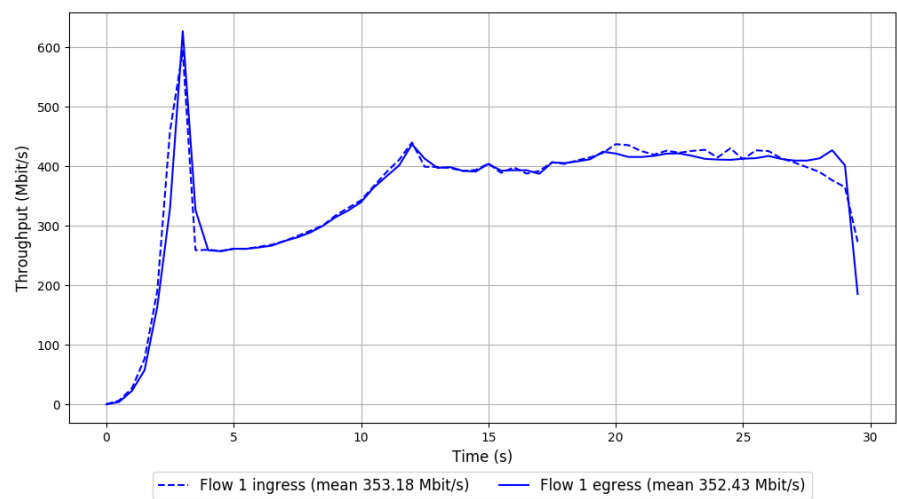
-- Flow 1:

Average throughput: 352.43 Mbit/s

95th percentile per-packet one-way delay: 239.639 ms

Loss rate: 0.96%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-04-10 05:04:00

End at: 2018-04-10 05:04:30

Below is generated by plot.py at 2018-04-10 09:53:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 382.45 Mbit/s

95th percentile per-packet one-way delay: 198.054 ms

Loss rate: 1.29%

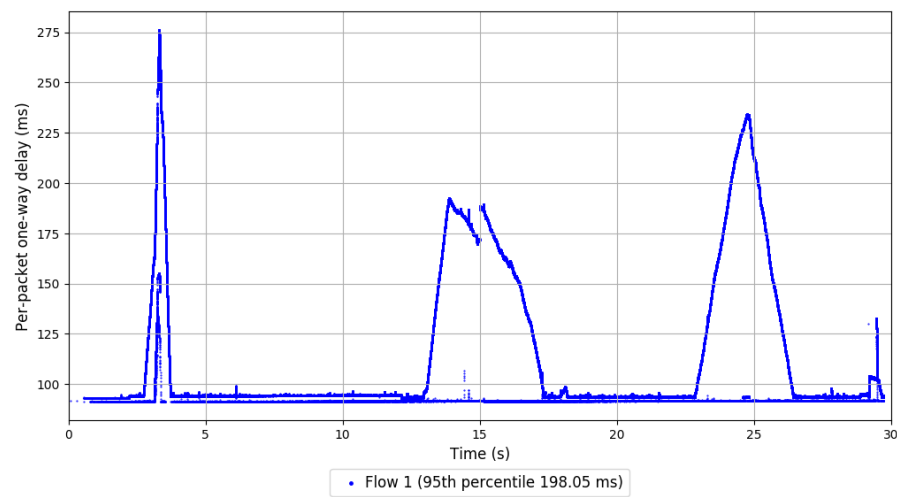
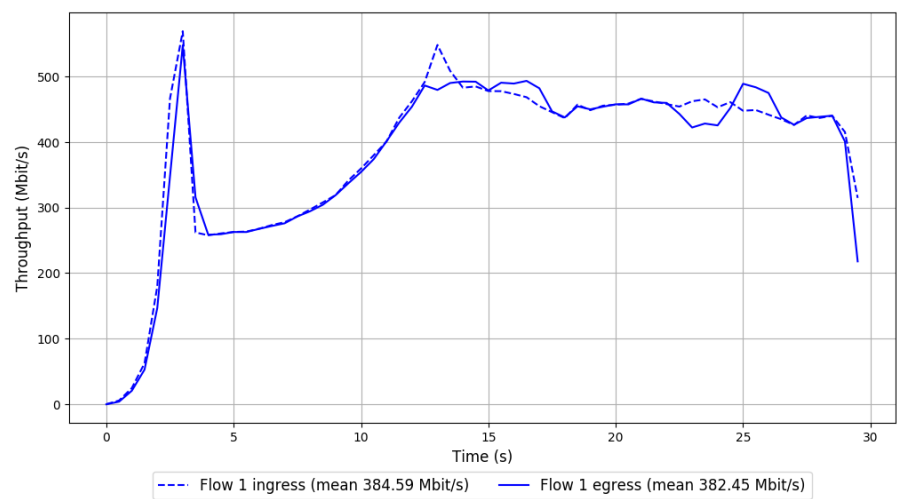
-- Flow 1:

Average throughput: 382.45 Mbit/s

95th percentile per-packet one-way delay: 198.054 ms

Loss rate: 1.29%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-04-10 05:19:10

End at: 2018-04-10 05:19:40

Below is generated by plot.py at 2018-04-10 09:53:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 366.39 Mbit/s

95th percentile per-packet one-way delay: 126.384 ms

Loss rate: 1.49%

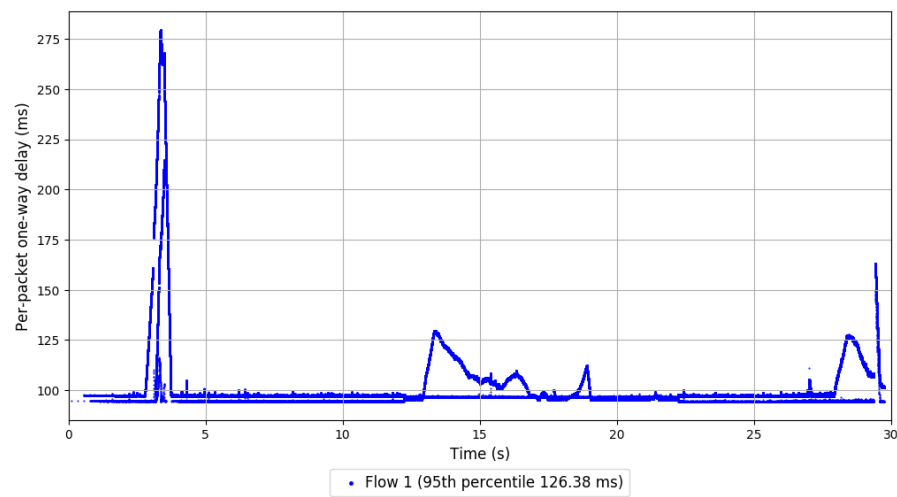
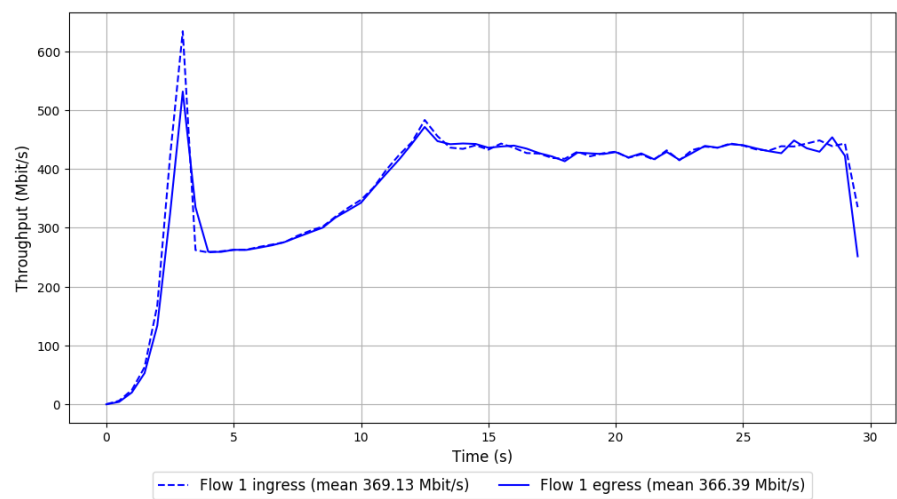
-- Flow 1:

Average throughput: 366.39 Mbit/s

95th percentile per-packet one-way delay: 126.384 ms

Loss rate: 1.49%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-04-10 05:34:14

End at: 2018-04-10 05:34:44

Below is generated by plot.py at 2018-04-10 09:53:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 379.44 Mbit/s

95th percentile per-packet one-way delay: 103.404 ms

Loss rate: 1.30%

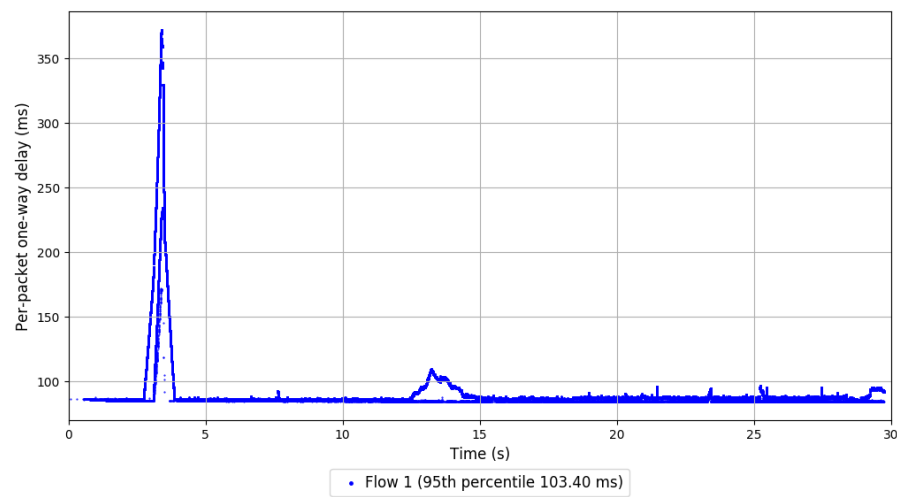
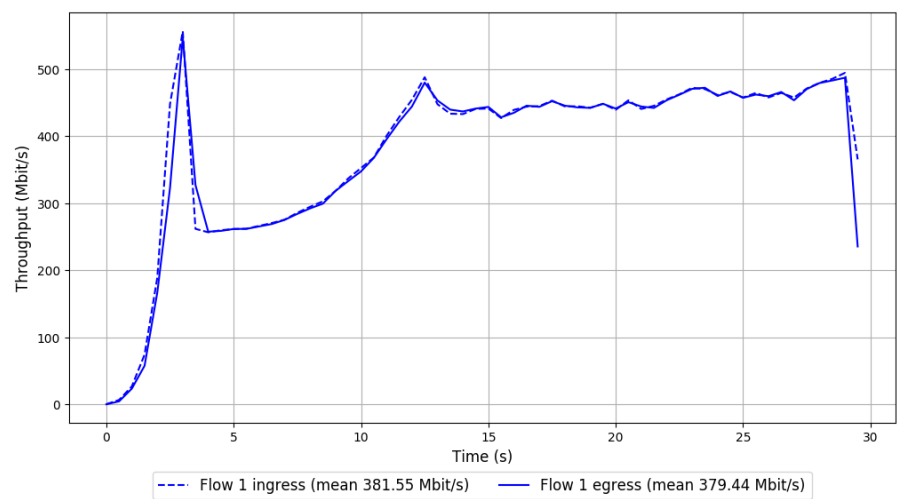
-- Flow 1:

Average throughput: 379.44 Mbit/s

95th percentile per-packet one-way delay: 103.404 ms

Loss rate: 1.30%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-04-10 05:49:20

End at: 2018-04-10 05:49:50

Below is generated by plot.py at 2018-04-10 09:53:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 361.08 Mbit/s

95th percentile per-packet one-way delay: 156.177 ms

Loss rate: 1.52%

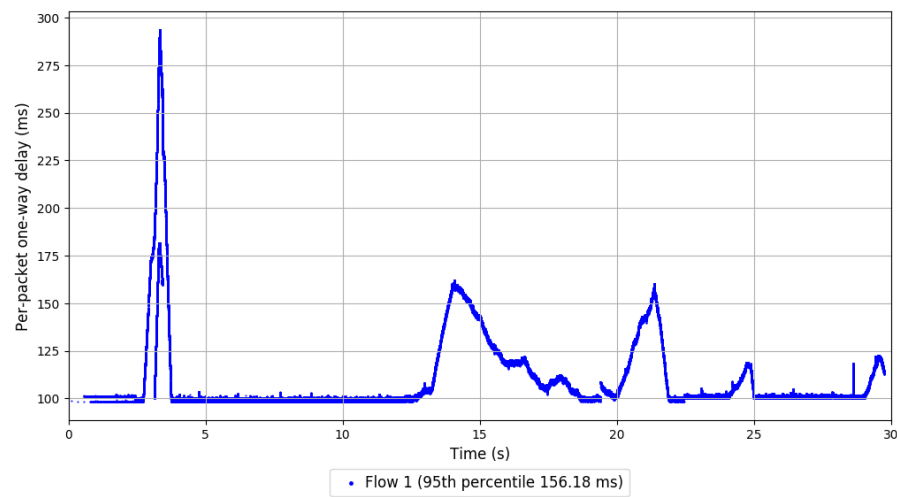
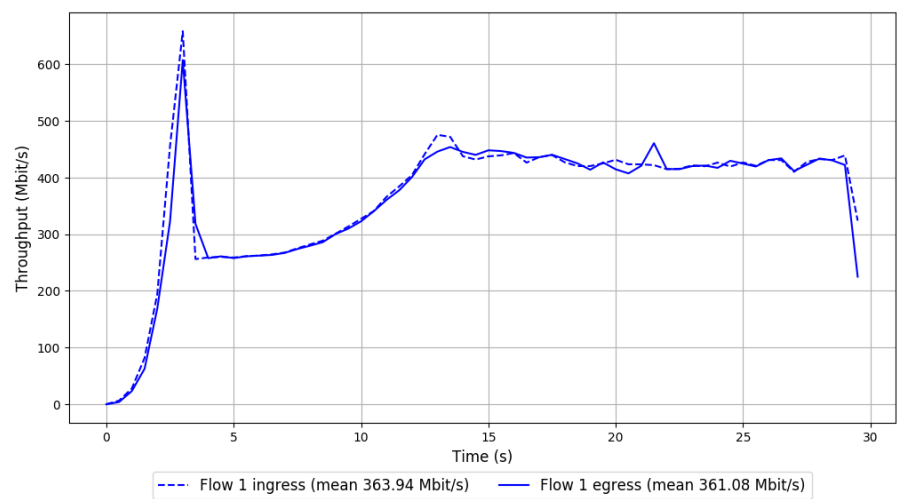
-- Flow 1:

Average throughput: 361.08 Mbit/s

95th percentile per-packet one-way delay: 156.177 ms

Loss rate: 1.52%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-04-10 06:04:44

End at: 2018-04-10 06:05:14

Below is generated by plot.py at 2018-04-10 09:55:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 444.25 Mbit/s

95th percentile per-packet one-way delay: 215.154 ms

Loss rate: 1.54%

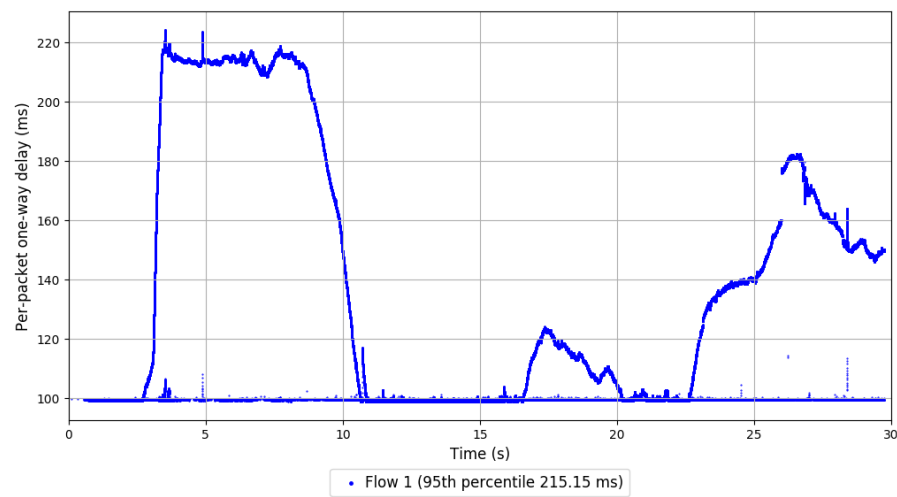
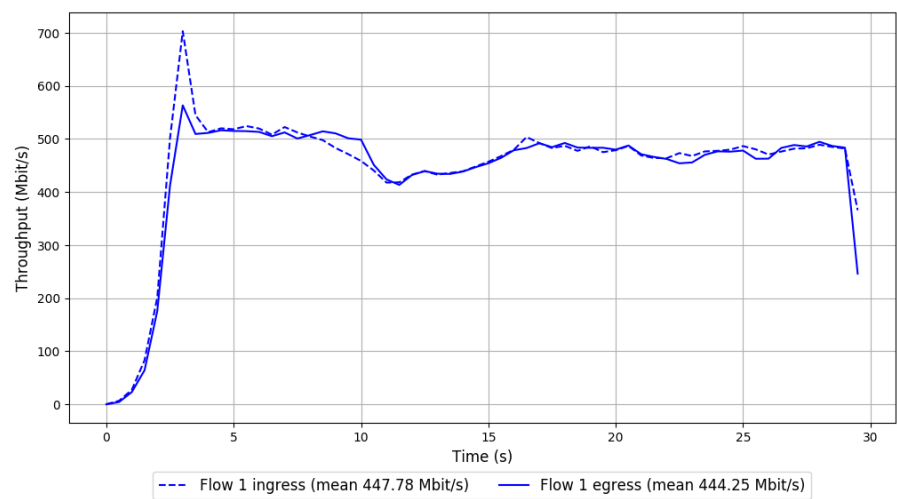
-- Flow 1:

Average throughput: 444.25 Mbit/s

95th percentile per-packet one-way delay: 215.154 ms

Loss rate: 1.54%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-04-10 06:20:04

End at: 2018-04-10 06:20:34

Below is generated by plot.py at 2018-04-10 09:57:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 466.19 Mbit/s

95th percentile per-packet one-way delay: 150.874 ms

Loss rate: 1.50%

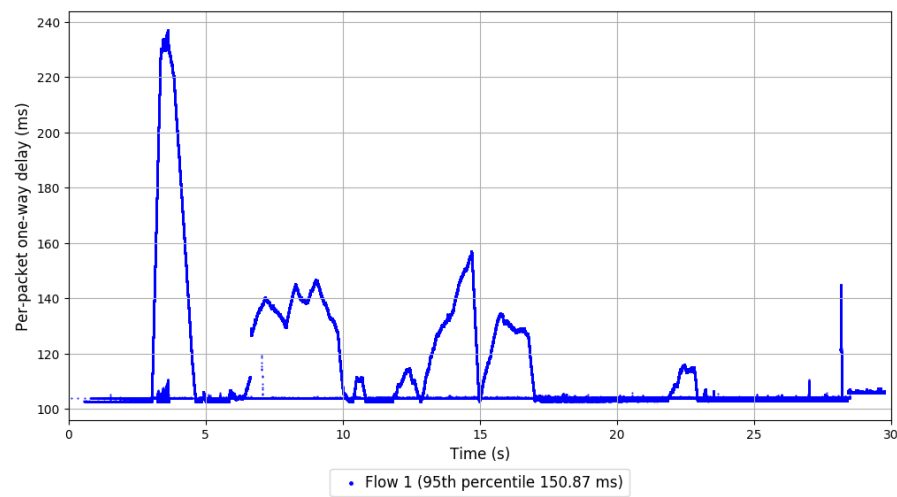
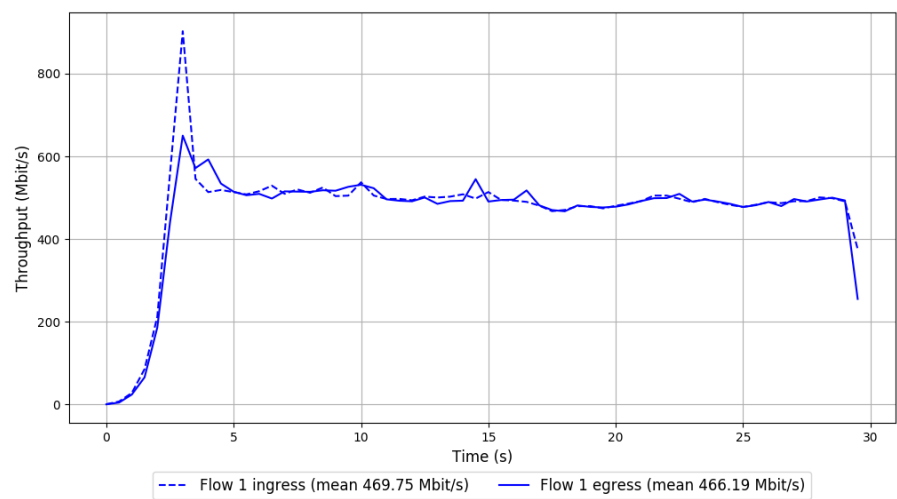
-- Flow 1:

Average throughput: 466.19 Mbit/s

95th percentile per-packet one-way delay: 150.874 ms

Loss rate: 1.50%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-04-10 06:35:16

End at: 2018-04-10 06:35:46

Below is generated by plot.py at 2018-04-10 10:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 478.55 Mbit/s

95th percentile per-packet one-way delay: 212.192 ms

Loss rate: 1.57%

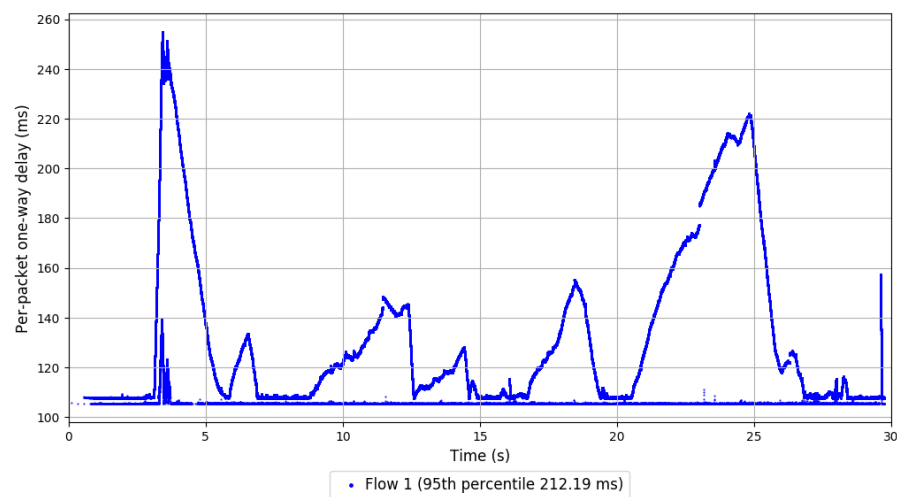
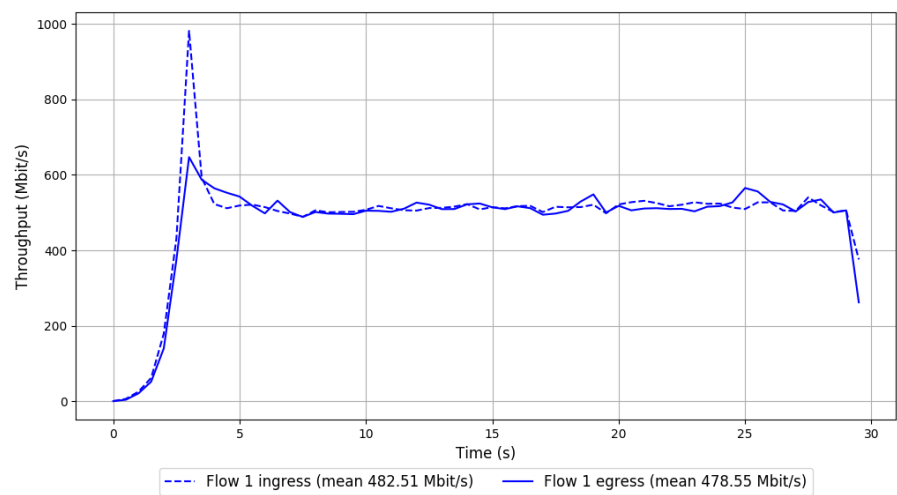
-- Flow 1:

Average throughput: 478.55 Mbit/s

95th percentile per-packet one-way delay: 212.192 ms

Loss rate: 1.57%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-04-10 06:49:58

End at: 2018-04-10 06:50:28

Below is generated by plot.py at 2018-04-10 10:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 406.70 Mbit/s

95th percentile per-packet one-way delay: 128.268 ms

Loss rate: 1.38%

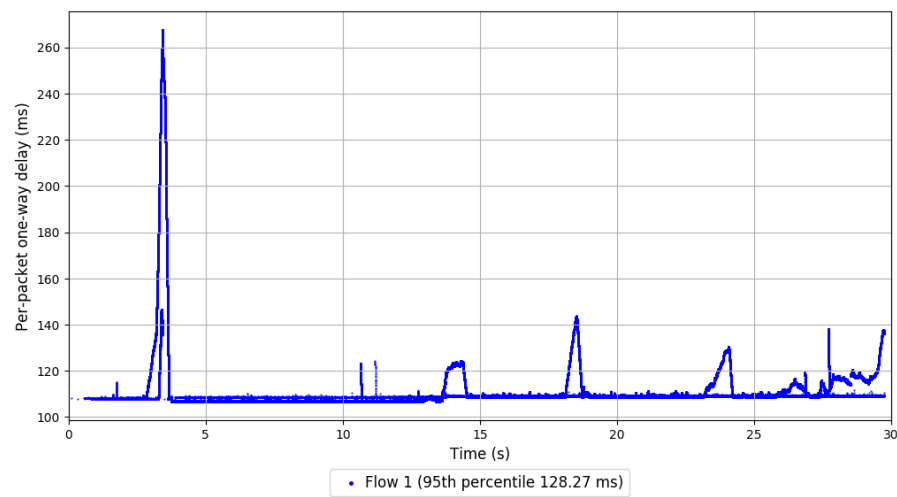
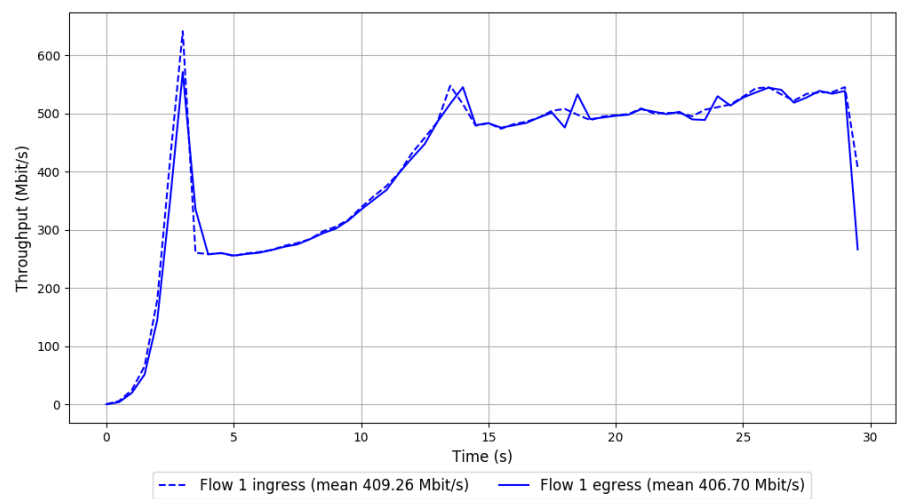
-- Flow 1:

Average throughput: 406.70 Mbit/s

95th percentile per-packet one-way delay: 128.268 ms

Loss rate: 1.38%

Run 10: Report of PCC — Data Link

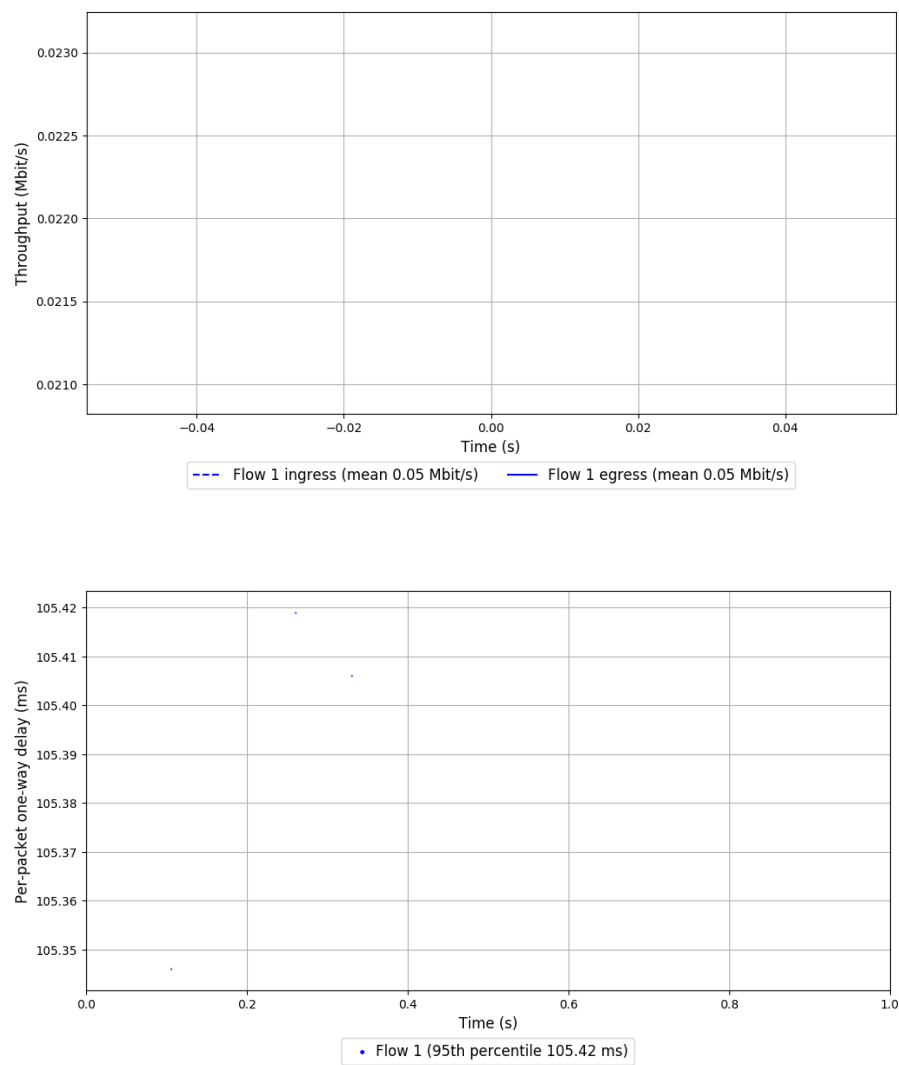


Run 1: Statistics of QUIC Cubic

Start at: 2018-04-10 04:42:16

End at: 2018-04-10 04:42:46

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-04-10 04:57:28

End at: 2018-04-10 04:57:58

Below is generated by plot.py at 2018-04-10 10:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.72 Mbit/s

95th percentile per-packet one-way delay: 100.526 ms

Loss rate: 1.10%

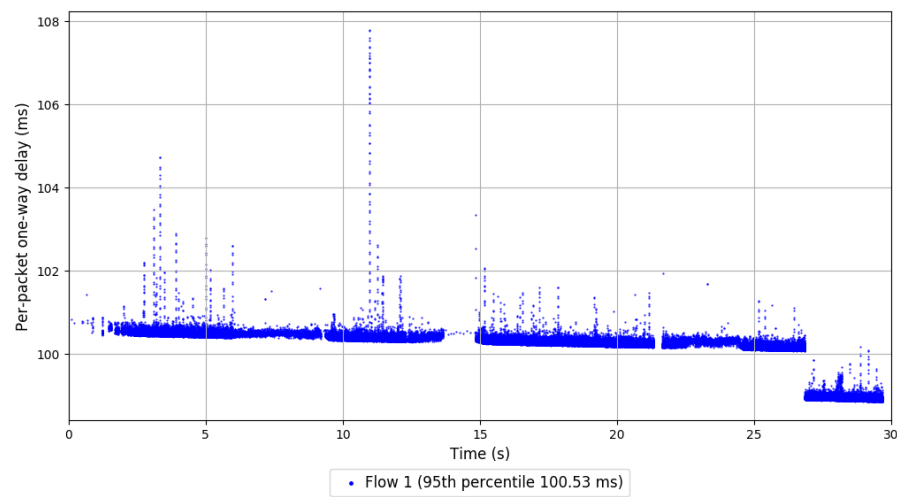
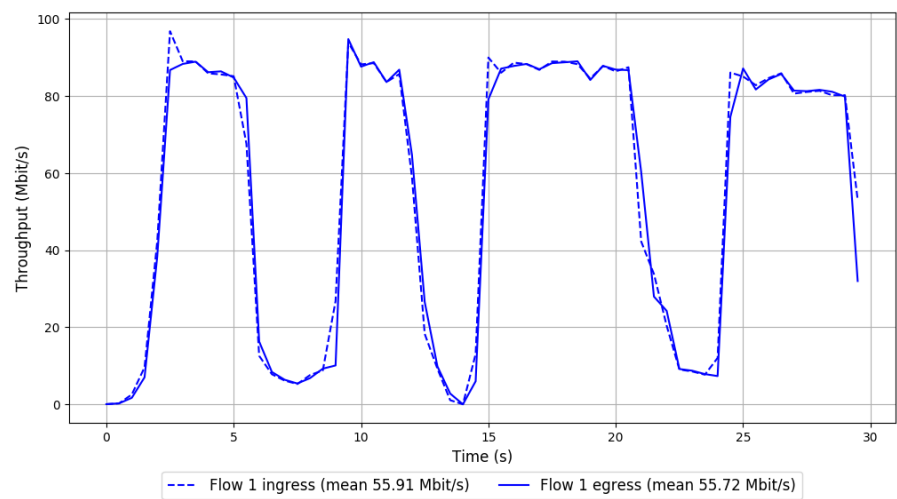
-- Flow 1:

Average throughput: 55.72 Mbit/s

95th percentile per-packet one-way delay: 100.526 ms

Loss rate: 1.10%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-04-10 05:12:37

End at: 2018-04-10 05:13:07

Below is generated by plot.py at 2018-04-10 10:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.26 Mbit/s

95th percentile per-packet one-way delay: 97.234 ms

Loss rate: 0.99%

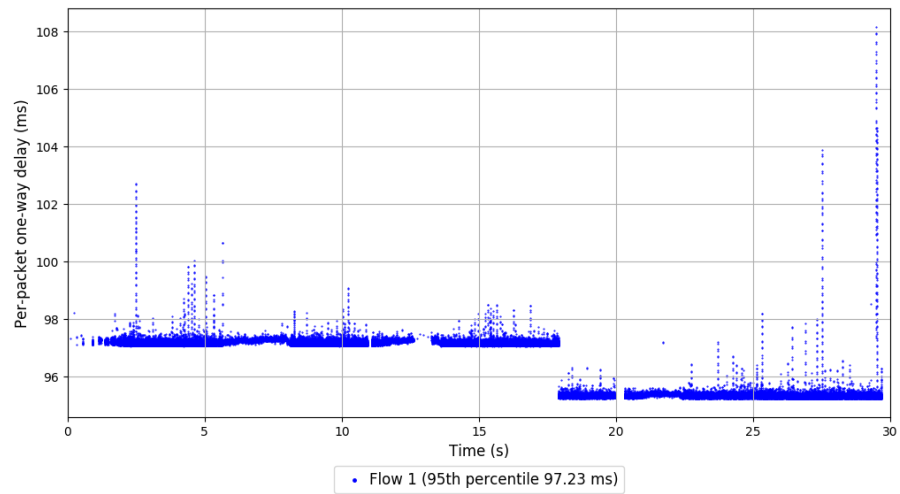
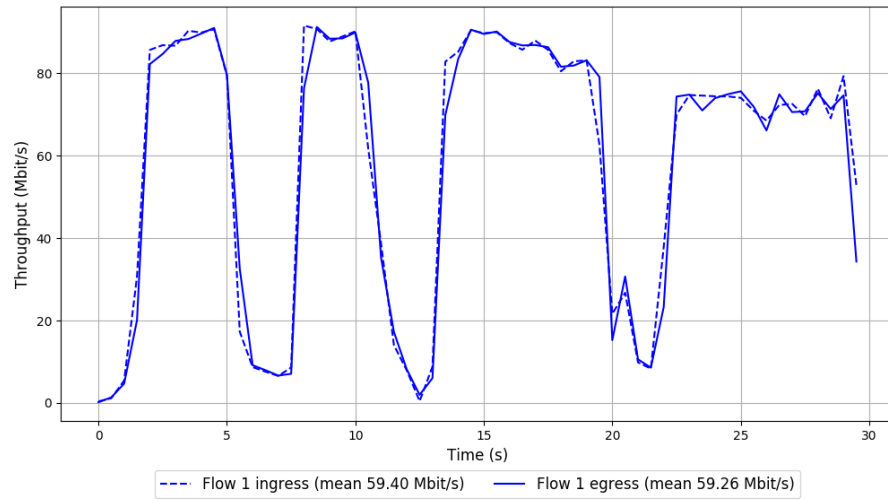
-- Flow 1:

Average throughput: 59.26 Mbit/s

95th percentile per-packet one-way delay: 97.234 ms

Loss rate: 0.99%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-04-10 05:27:39

End at: 2018-04-10 05:28:09

Below is generated by plot.py at 2018-04-10 10:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.83 Mbit/s

95th percentile per-packet one-way delay: 90.800 ms

Loss rate: 1.05%

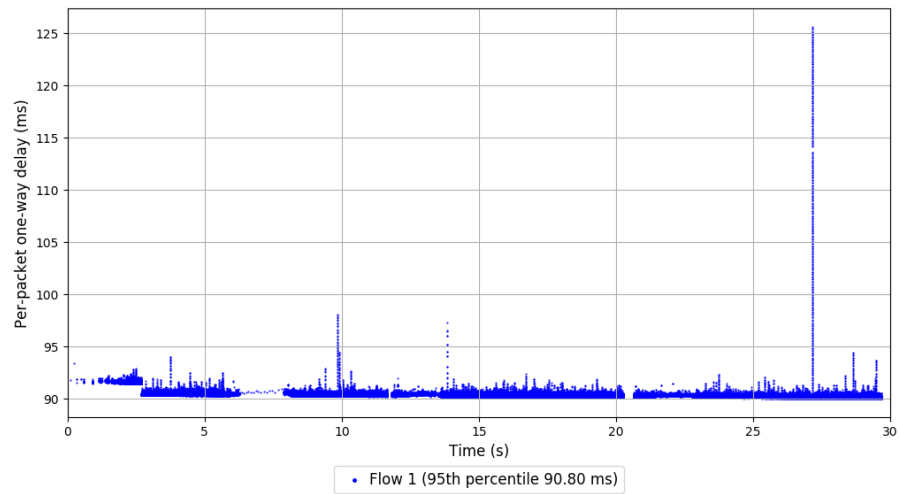
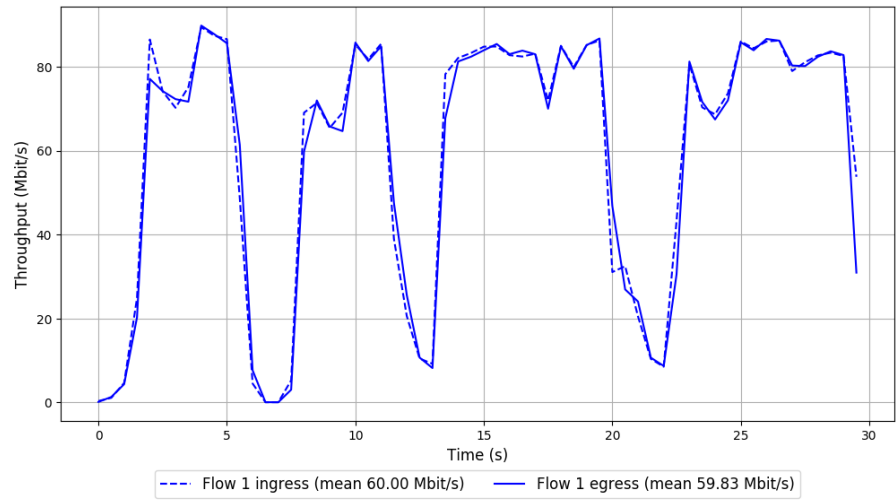
-- Flow 1:

Average throughput: 59.83 Mbit/s

95th percentile per-packet one-way delay: 90.800 ms

Loss rate: 1.05%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-04-10 05:42:40

End at: 2018-04-10 05:43:10

Below is generated by plot.py at 2018-04-10 10:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.65 Mbit/s

95th percentile per-packet one-way delay: 92.252 ms

Loss rate: 1.00%

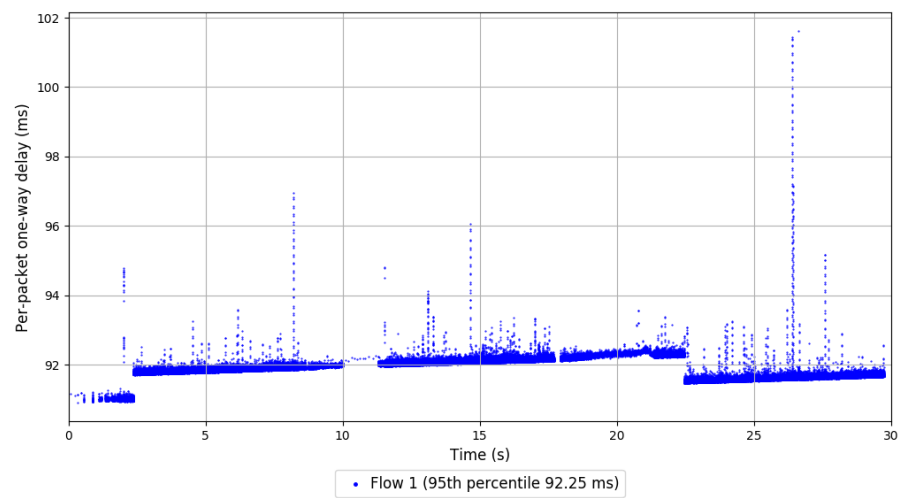
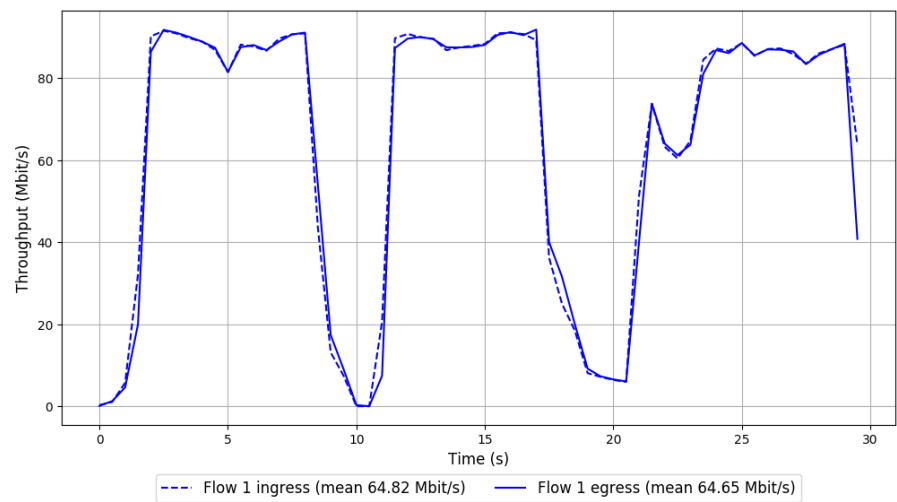
-- Flow 1:

Average throughput: 64.65 Mbit/s

95th percentile per-packet one-way delay: 92.252 ms

Loss rate: 1.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-04-10 05:57:56

End at: 2018-04-10 05:58:26

Below is generated by plot.py at 2018-04-10 10:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.89 Mbit/s

95th percentile per-packet one-way delay: 102.658 ms

Loss rate: 1.02%

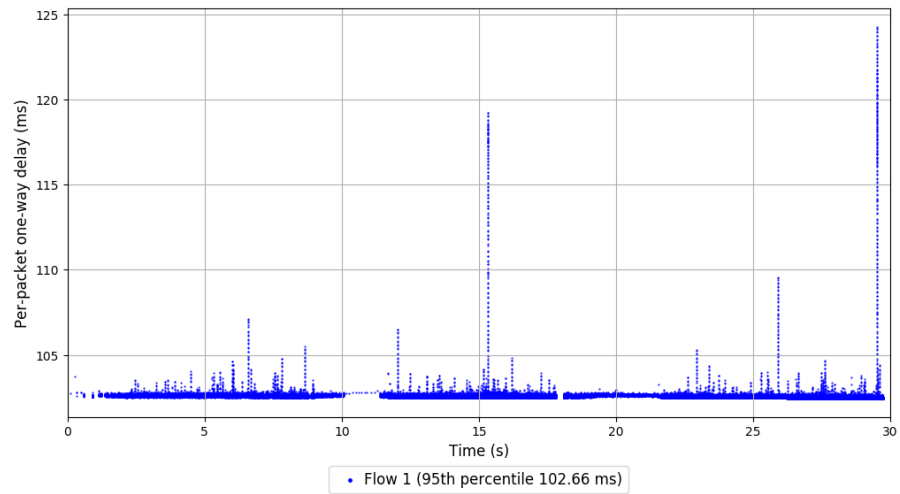
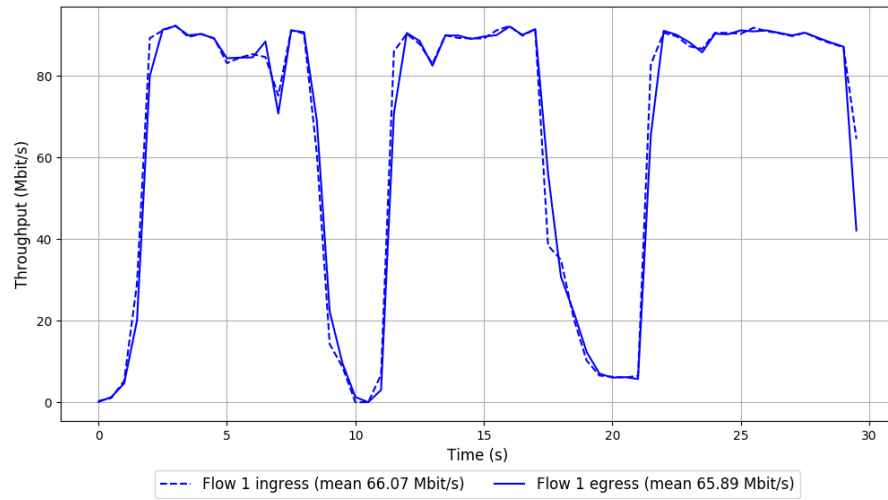
-- Flow 1:

Average throughput: 65.89 Mbit/s

95th percentile per-packet one-way delay: 102.658 ms

Loss rate: 1.02%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-04-10 06:13:18

End at: 2018-04-10 06:13:48

Below is generated by plot.py at 2018-04-10 10:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.15 Mbit/s

95th percentile per-packet one-way delay: 100.258 ms

Loss rate: 1.00%

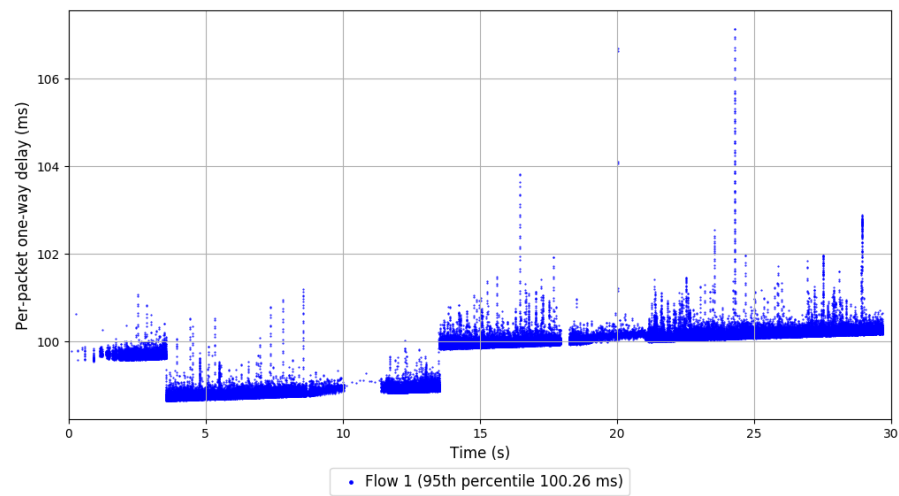
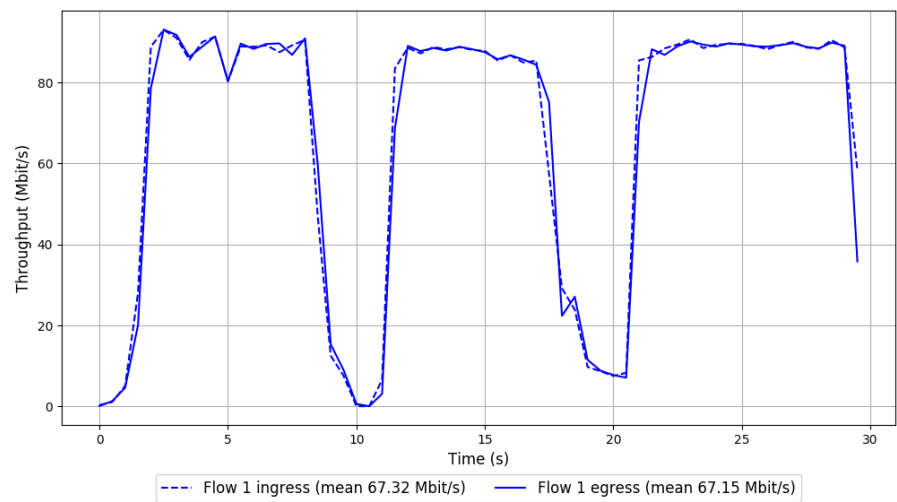
-- Flow 1:

Average throughput: 67.15 Mbit/s

95th percentile per-packet one-way delay: 100.258 ms

Loss rate: 1.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-04-10 06:28:35

End at: 2018-04-10 06:29:05

Below is generated by plot.py at 2018-04-10 10:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.26 Mbit/s

95th percentile per-packet one-way delay: 111.489 ms

Loss rate: 1.03%

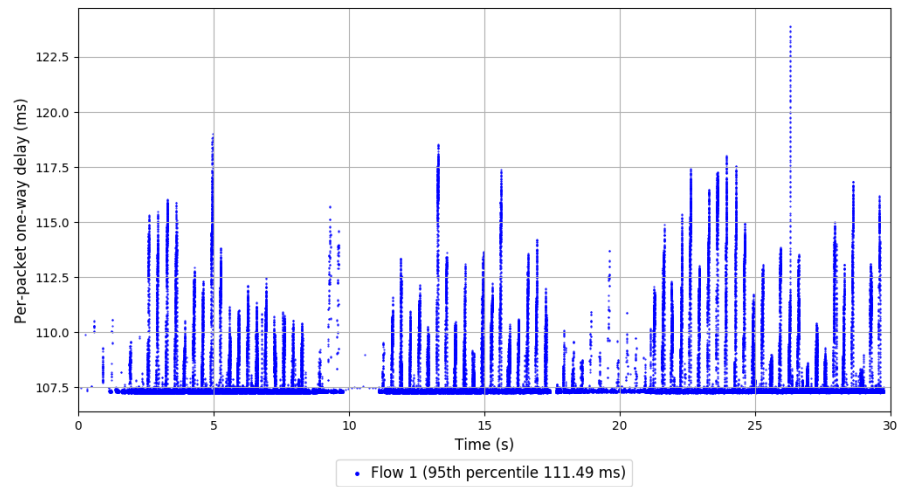
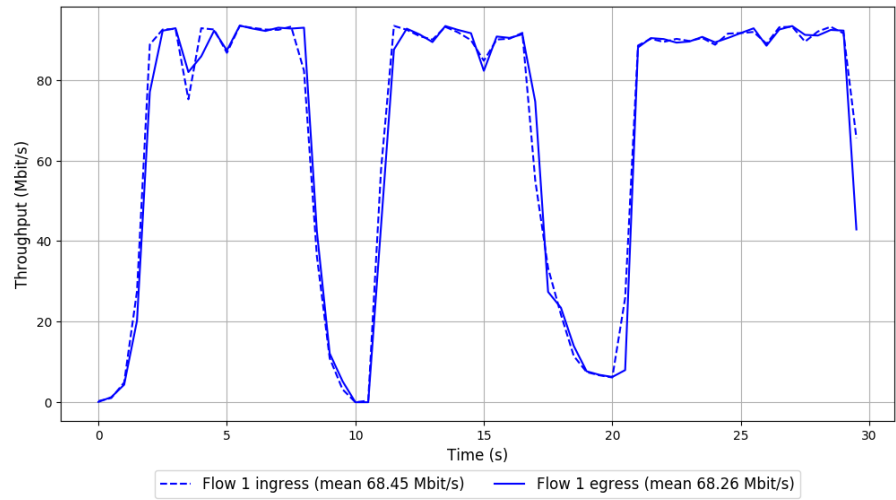
-- Flow 1:

Average throughput: 68.26 Mbit/s

95th percentile per-packet one-way delay: 111.489 ms

Loss rate: 1.03%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-04-10 06:43:23

End at: 2018-04-10 06:43:53

Below is generated by plot.py at 2018-04-10 10:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.22 Mbit/s

95th percentile per-packet one-way delay: 106.234 ms

Loss rate: 1.02%

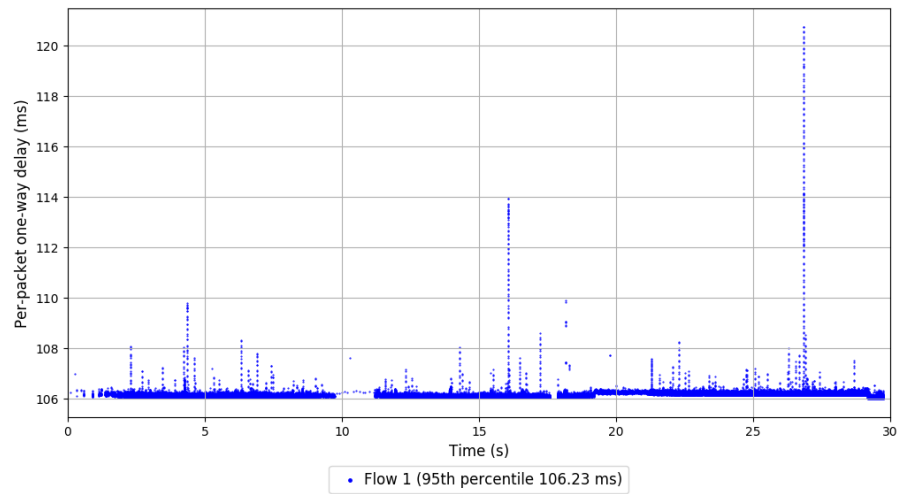
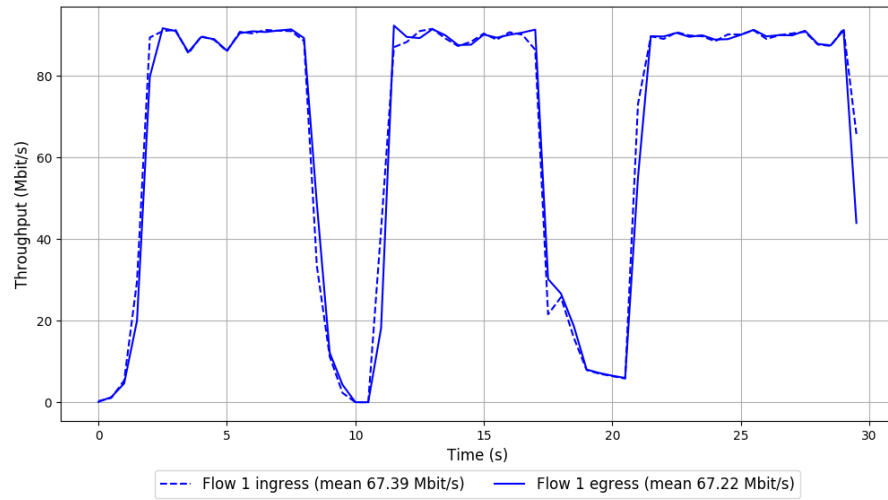
-- Flow 1:

Average throughput: 67.22 Mbit/s

95th percentile per-packet one-way delay: 106.234 ms

Loss rate: 1.02%

Run 9: Report of QUIC Cubic — Data Link

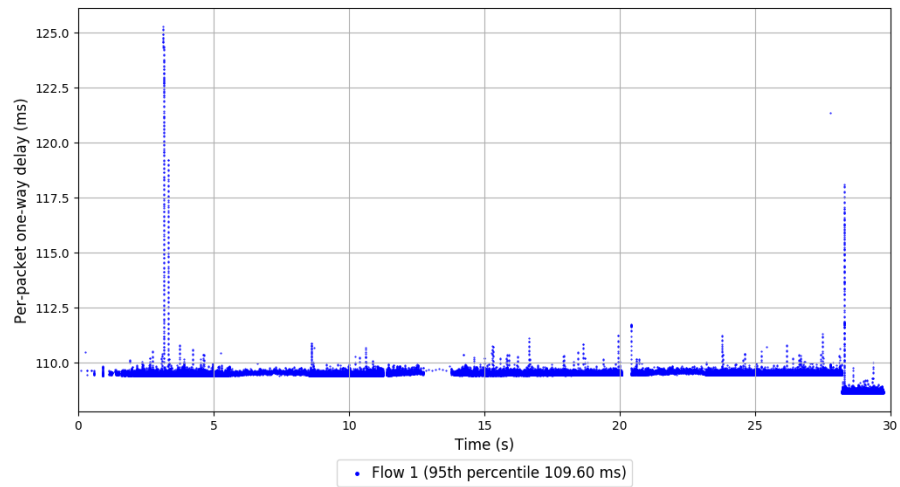
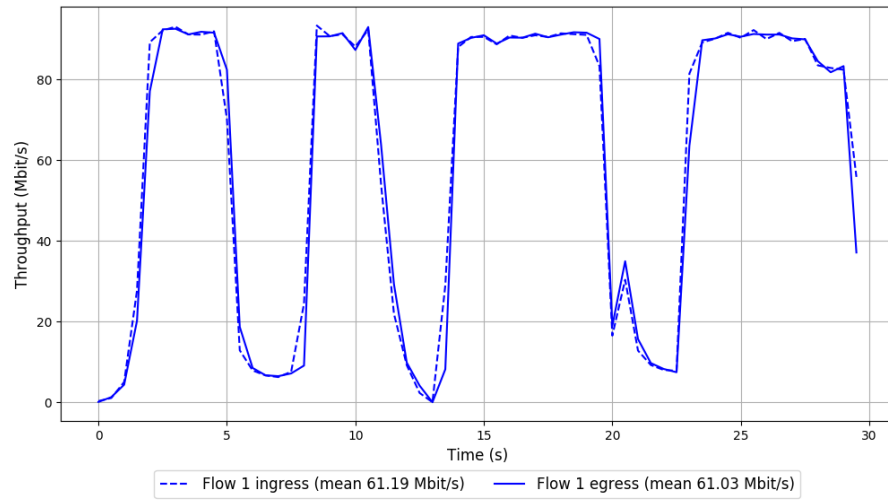


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-04-10 06:58:07
End at: 2018-04-10 06:58:37

# Below is generated by plot.py at 2018-04-10 10:02:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.03 Mbit/s
95th percentile per-packet one-way delay: 109.602 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 61.03 Mbit/s
95th percentile per-packet one-way delay: 109.602 ms
Loss rate: 1.01%
```

Run 10: Report of QUIC Cubic — Data Link

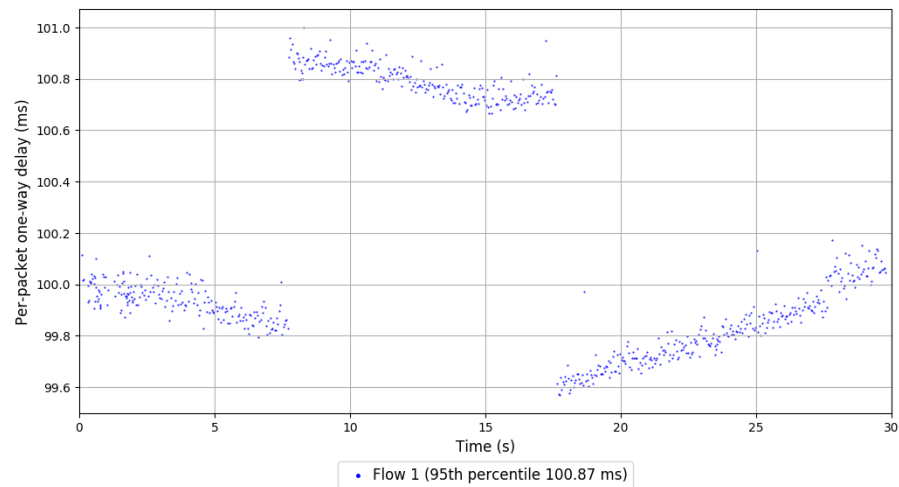
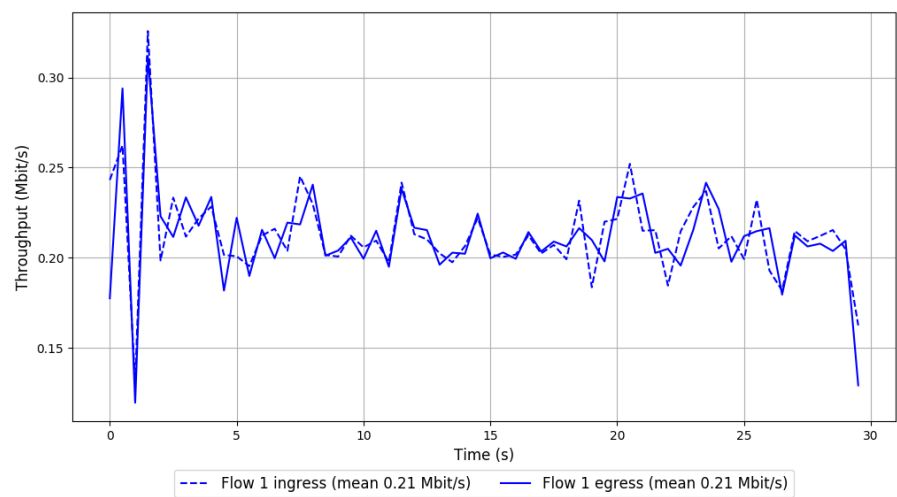


```
Run 1: Statistics of SCReAM

Start at: 2018-04-10 04:46:34
End at: 2018-04-10 04:47:04

# Below is generated by plot.py at 2018-04-10 10:02:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 100.867 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 100.867 ms
Loss rate: 0.64%
```

Run 1: Report of SReAM — Data Link

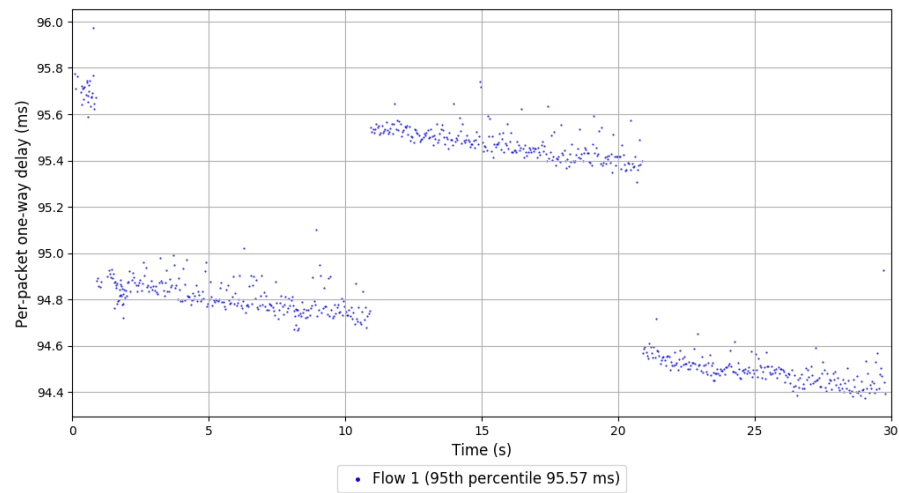
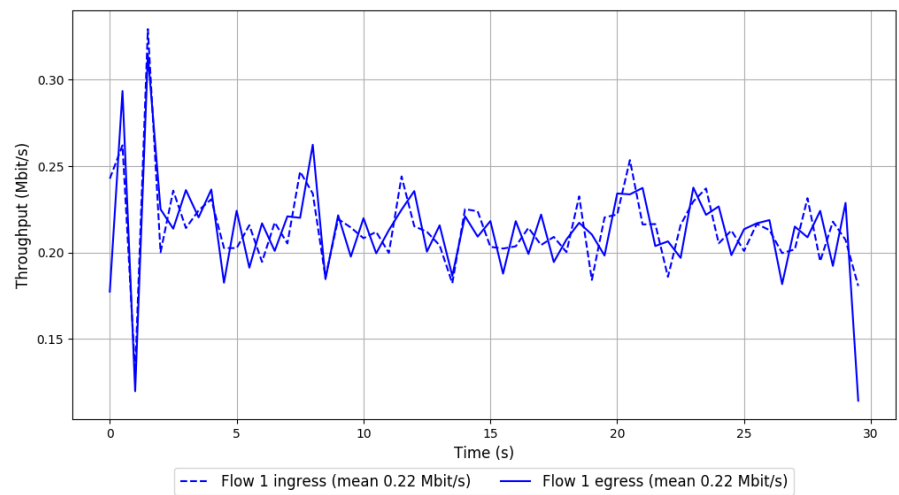


```
Run 2: Statistics of SCReAM

Start at: 2018-04-10 05:01:31
End at: 2018-04-10 05:02:01

# Below is generated by plot.py at 2018-04-10 10:02:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 95.574 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 95.574 ms
Loss rate: 0.77%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-04-10 05:16:42

End at: 2018-04-10 05:17:12

Below is generated by plot.py at 2018-04-10 10:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 97.458 ms

Loss rate: 0.76%

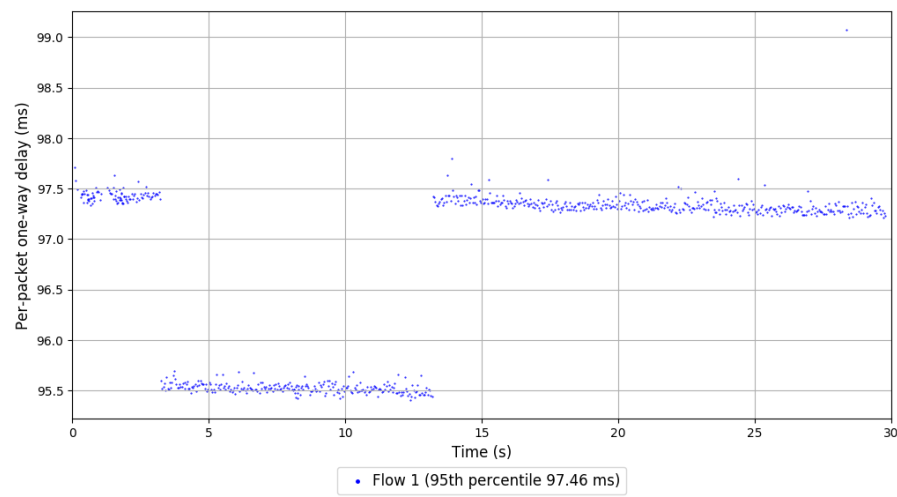
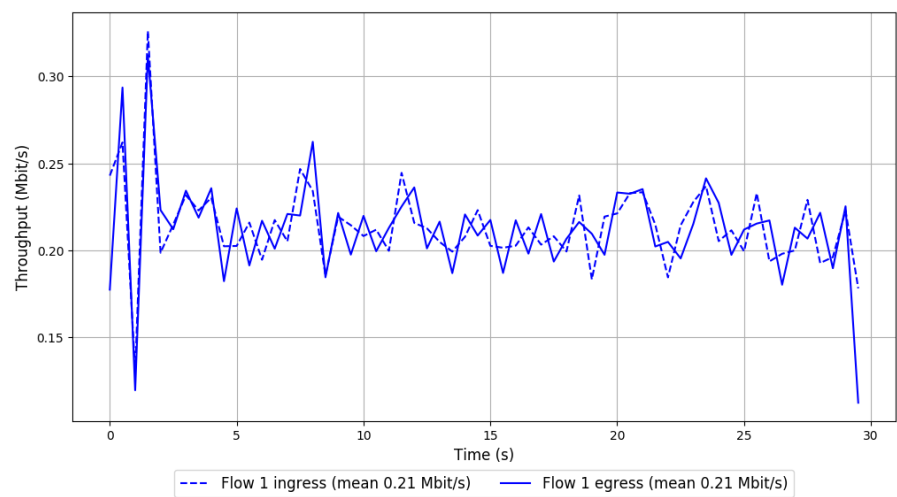
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 97.458 ms

Loss rate: 0.76%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-04-10 05:31:46

End at: 2018-04-10 05:32:16

Below is generated by plot.py at 2018-04-10 10:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.438 ms

Loss rate: 0.76%

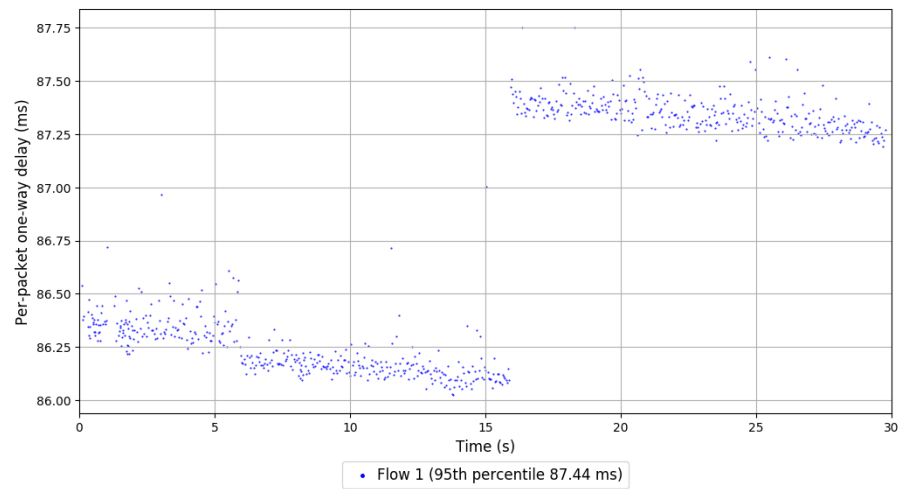
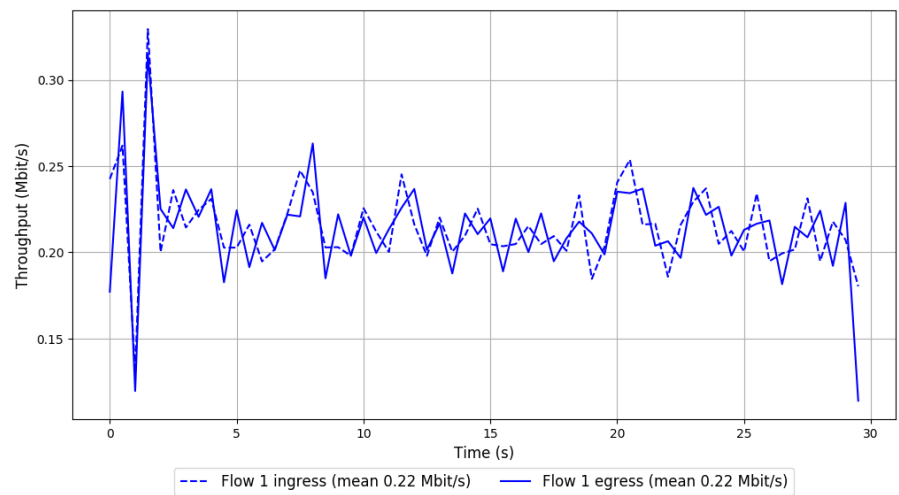
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.438 ms

Loss rate: 0.76%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-04-10 05:46:47

End at: 2018-04-10 05:47:17

Below is generated by plot.py at 2018-04-10 10:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 98.717 ms

Loss rate: 0.77%

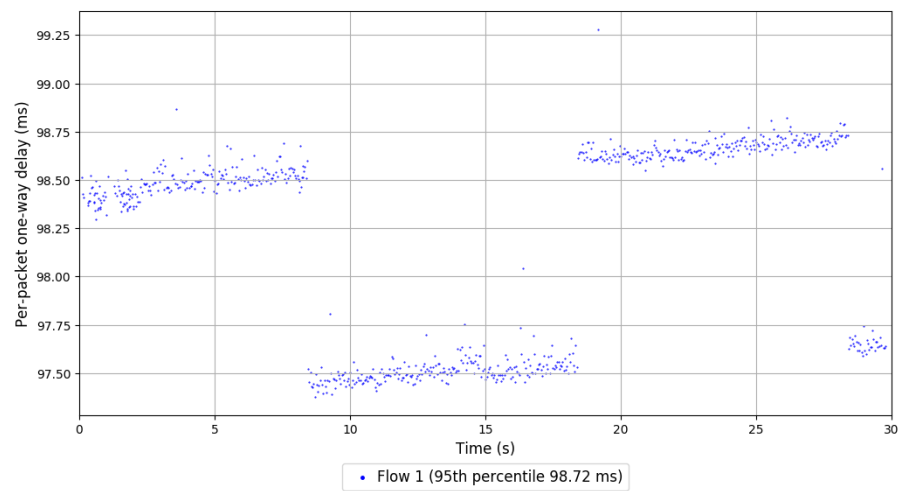
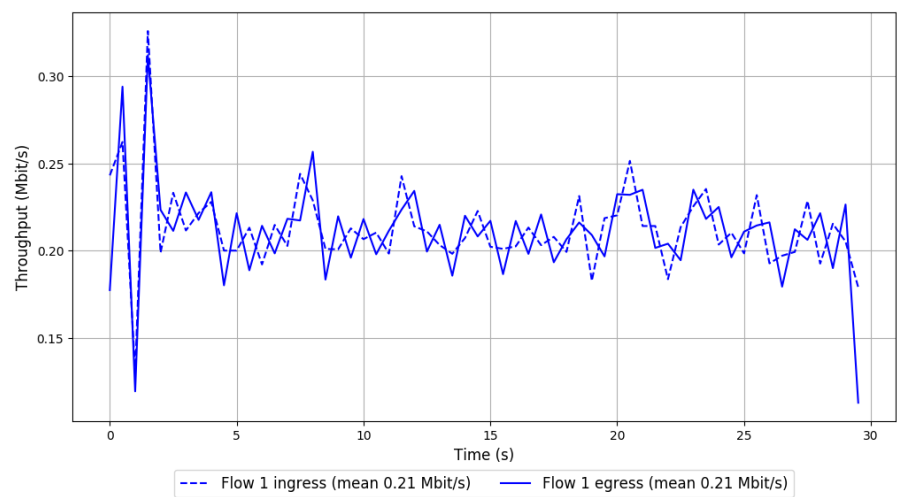
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 98.717 ms

Loss rate: 0.77%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-04-10 06:02:19

End at: 2018-04-10 06:02:49

Below is generated by plot.py at 2018-04-10 10:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 101.438 ms

Loss rate: 0.76%

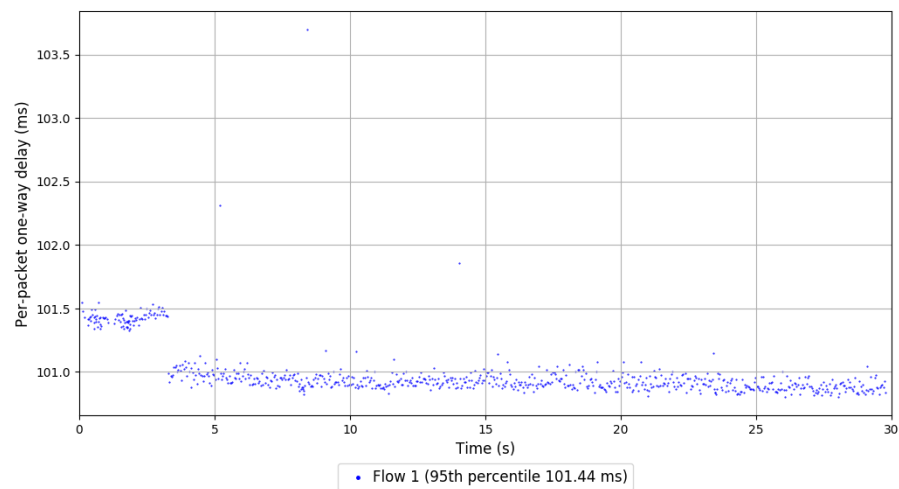
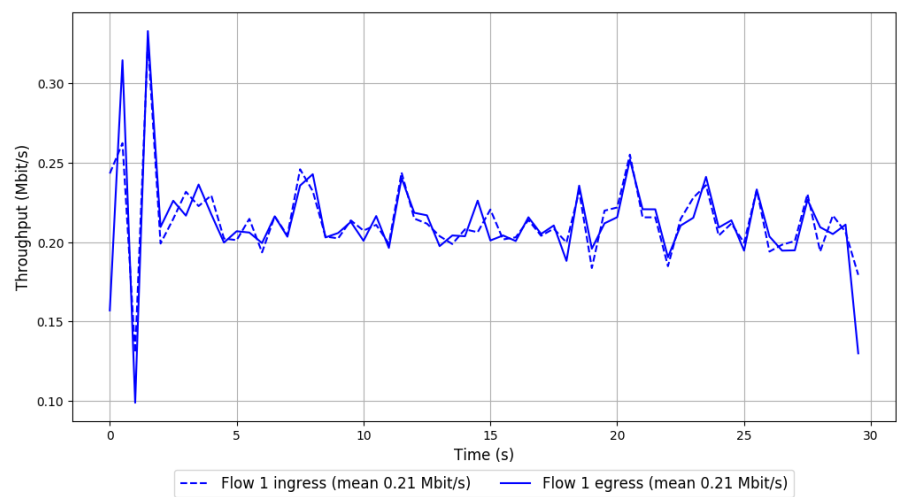
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 101.438 ms

Loss rate: 0.76%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-04-10 06:17:29

End at: 2018-04-10 06:17:59

Below is generated by plot.py at 2018-04-10 10:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 102.733 ms

Loss rate: 0.76%

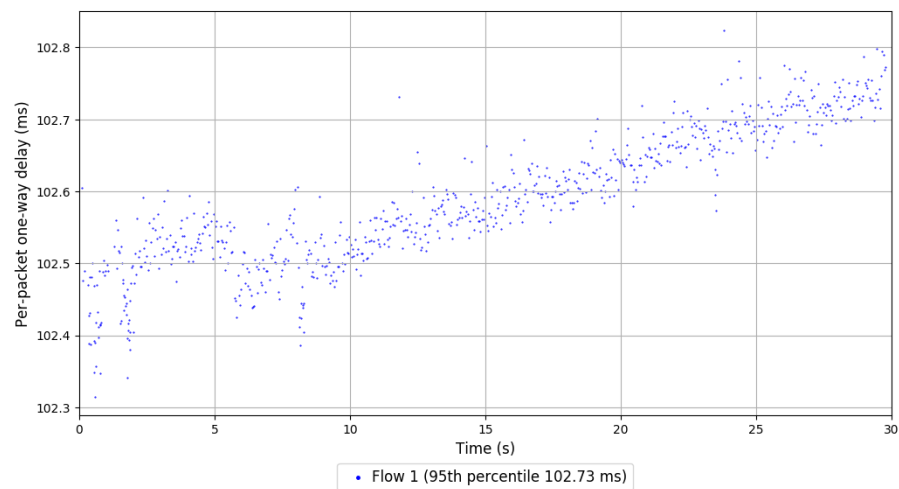
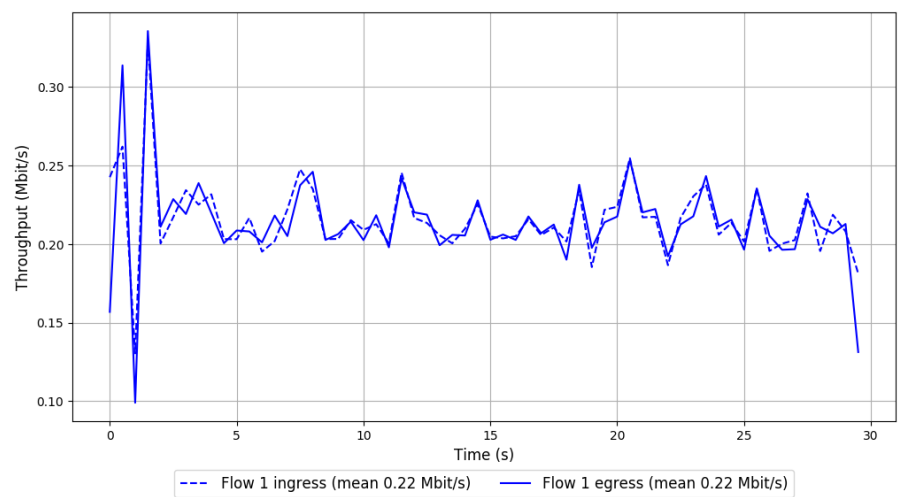
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 102.733 ms

Loss rate: 0.76%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-04-10 06:32:43

End at: 2018-04-10 06:33:13

Below is generated by plot.py at 2018-04-10 10:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 108.036 ms

Loss rate: 0.76%

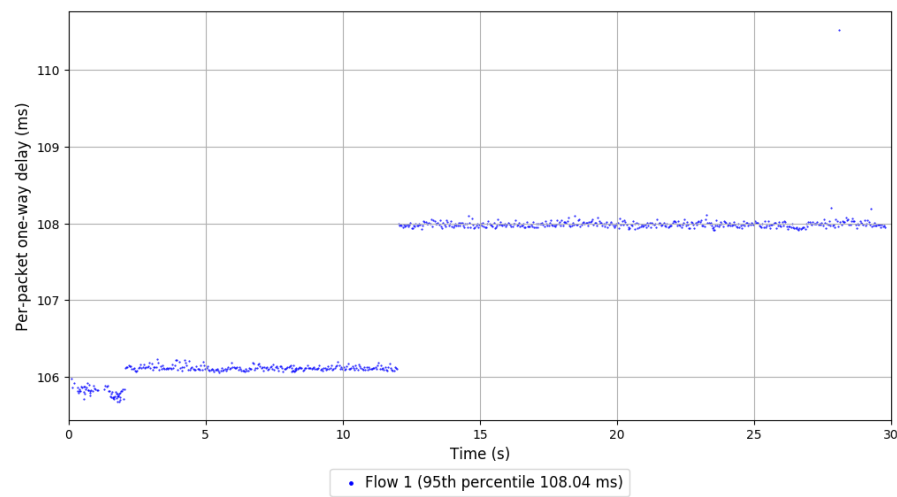
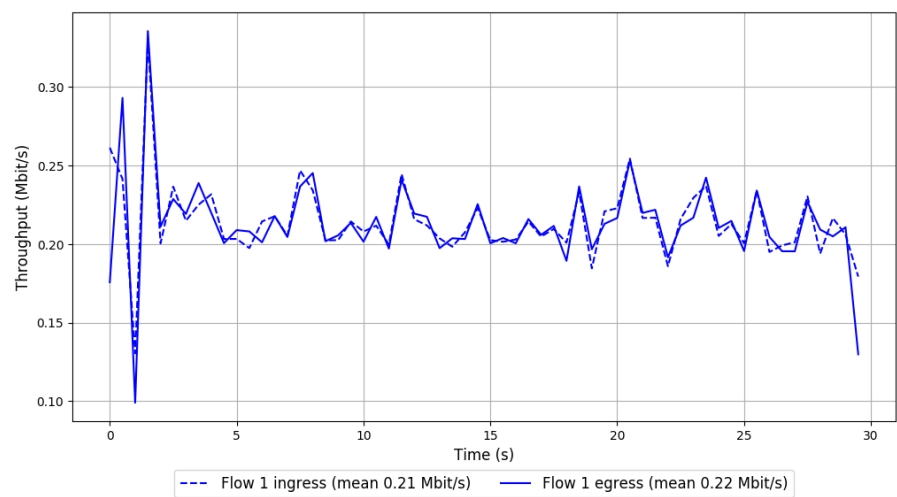
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 108.036 ms

Loss rate: 0.76%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-04-10 06:47:32

End at: 2018-04-10 06:48:02

Below is generated by plot.py at 2018-04-10 10:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 107.254 ms

Loss rate: 0.76%

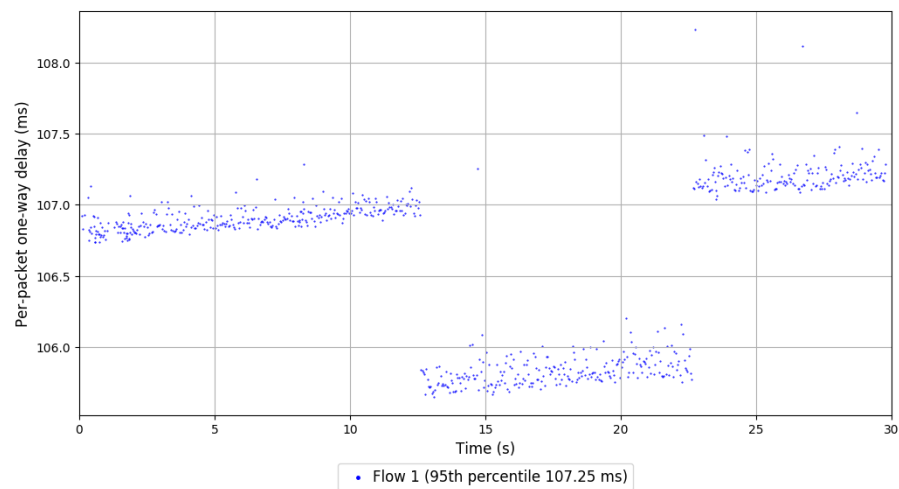
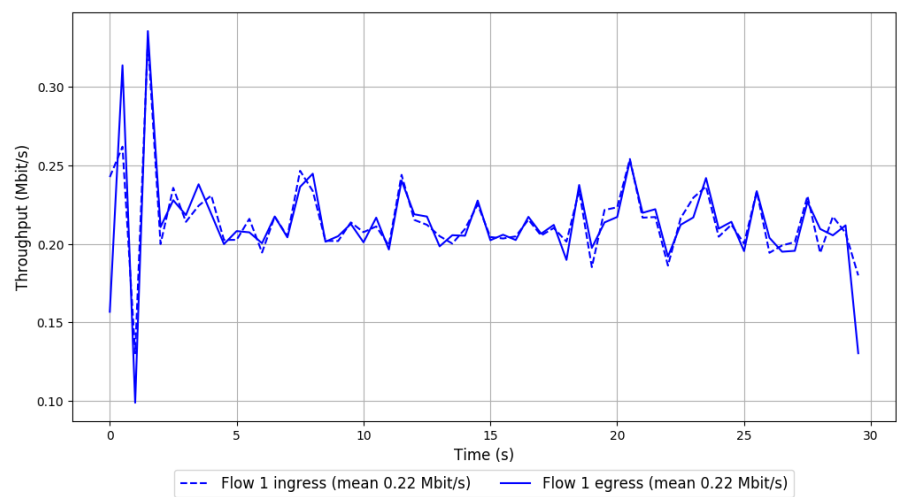
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 107.254 ms

Loss rate: 0.76%

Run 9: Report of SReAM — Data Link

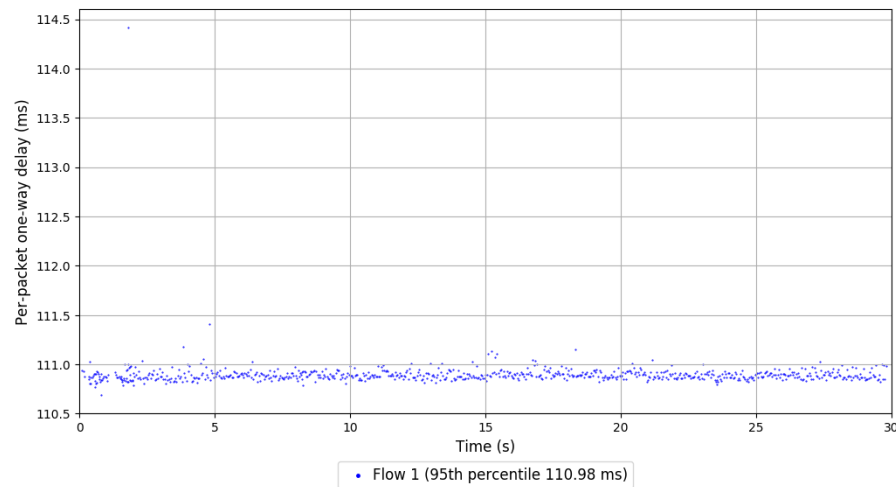
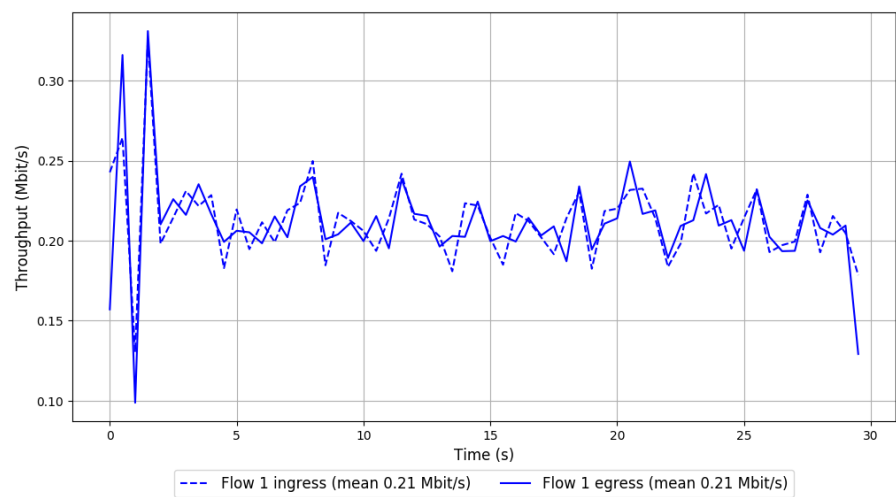


```
Run 10: Statistics of SReAM

Start at: 2018-04-10 07:02:25
End at: 2018-04-10 07:02:55

# Below is generated by plot.py at 2018-04-10 10:02:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 110.982 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 110.982 ms
Loss rate: 0.76%
```

Run 10: Report of SReAM — Data Link

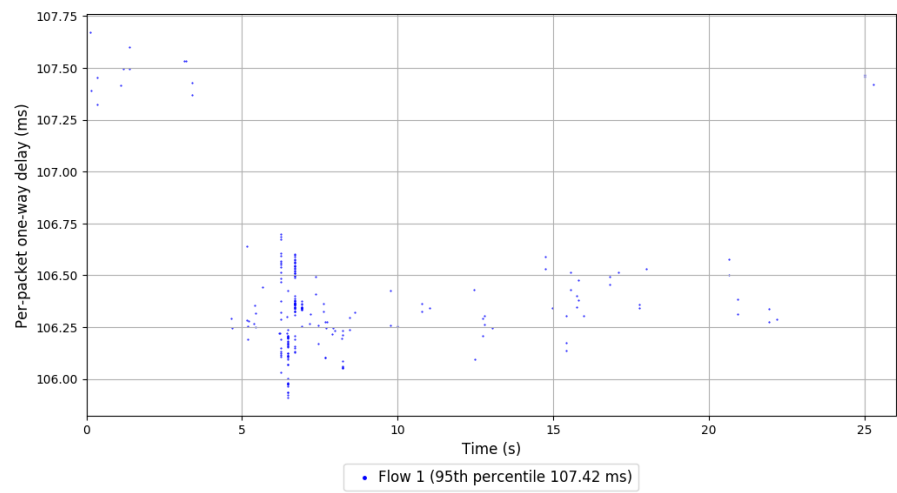
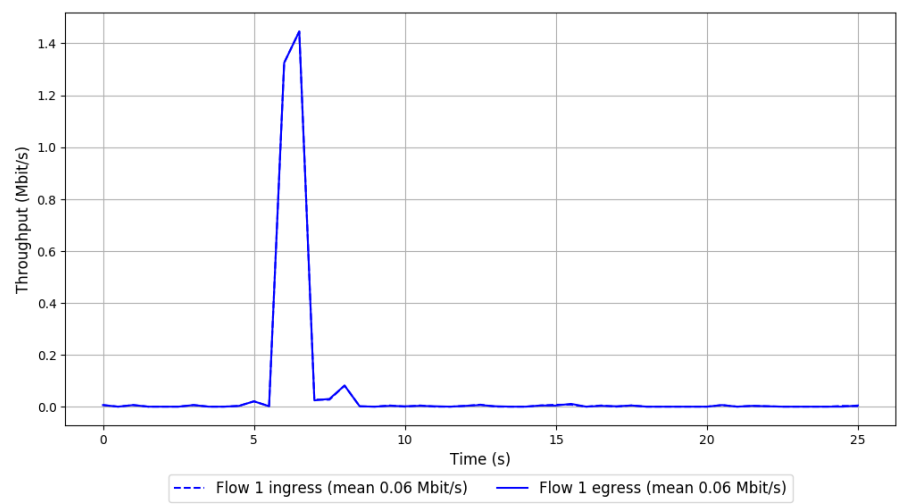


```
Run 1: Statistics of WebRTC media

Start at: 2018-04-10 04:40:06
End at: 2018-04-10 04:40:36

# Below is generated by plot.py at 2018-04-10 10:02:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 107.418 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 107.418 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-04-10 04:55:12

End at: 2018-04-10 04:55:42

Below is generated by plot.py at 2018-04-10 10:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 102.537 ms

Loss rate: 0.00%

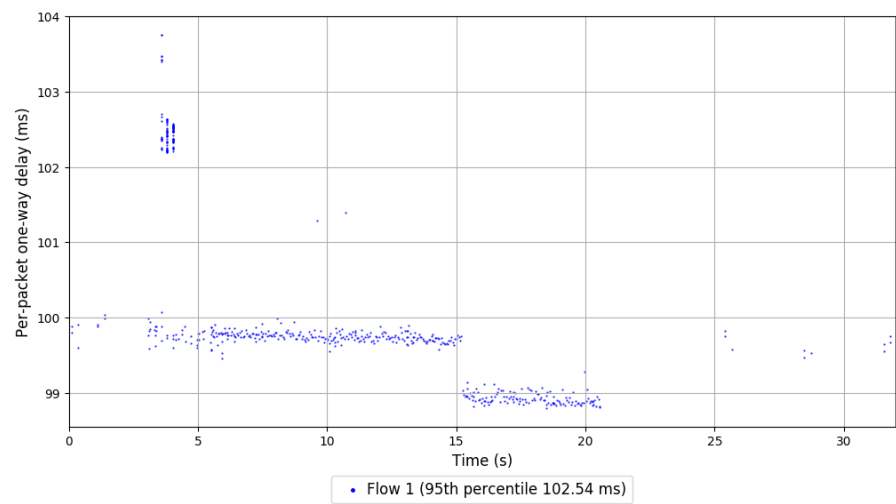
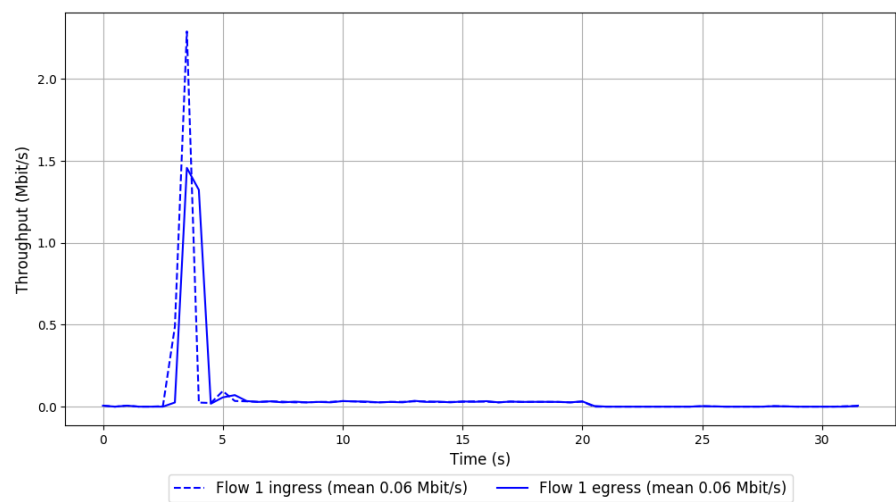
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 102.537 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-04-10 05:10:21

End at: 2018-04-10 05:10:51

Below is generated by plot.py at 2018-04-10 10:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 99.226 ms

Loss rate: 0.00%

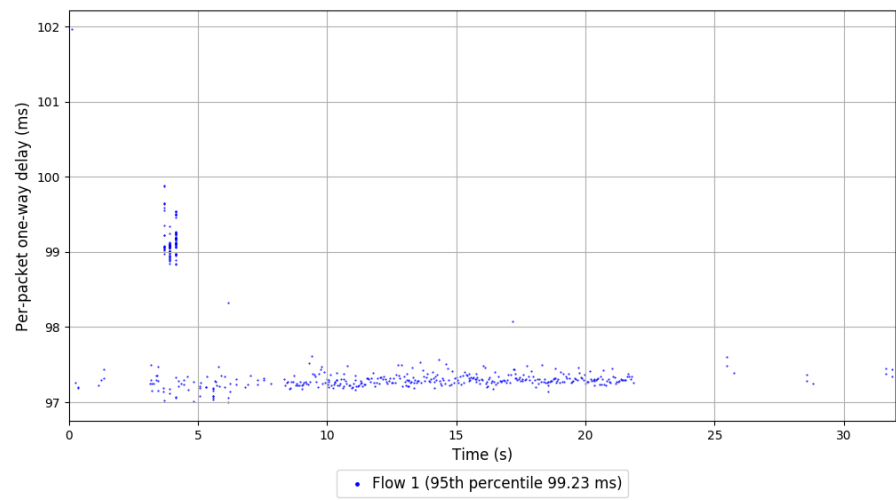
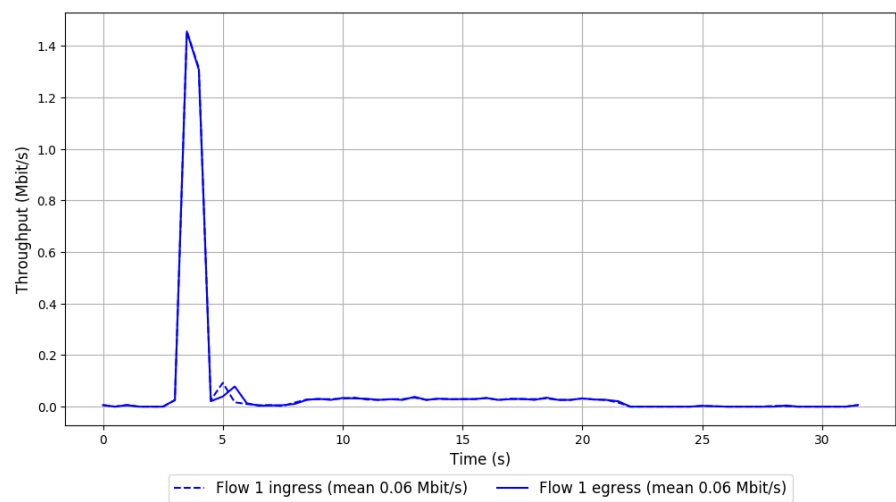
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 99.226 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-04-10 05:25:26

End at: 2018-04-10 05:25:56

Below is generated by plot.py at 2018-04-10 10:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 93.107 ms

Loss rate: 0.00%

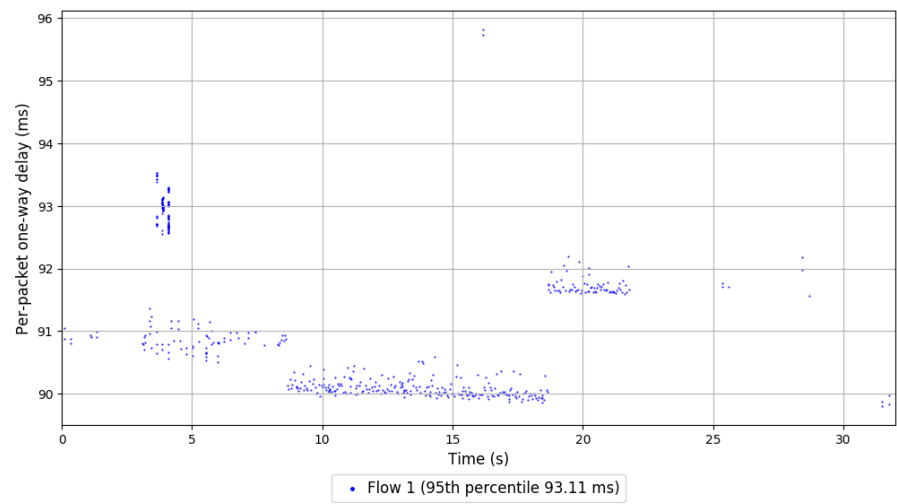
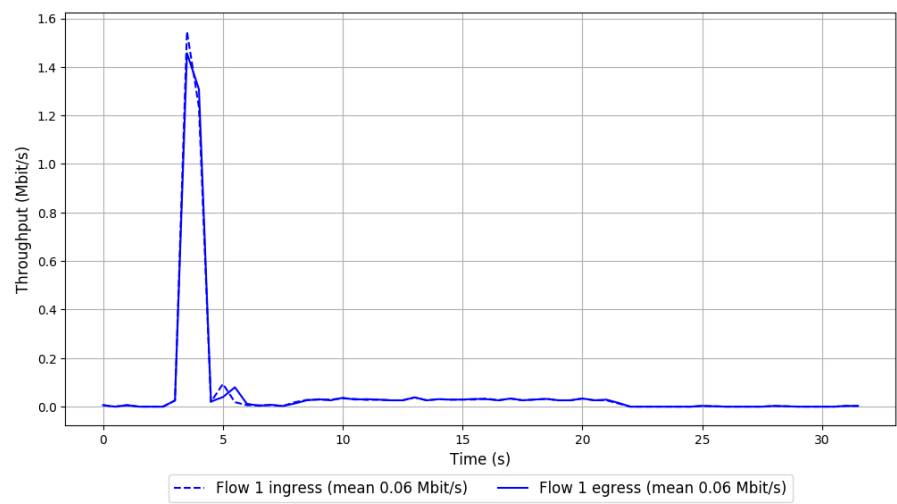
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 93.107 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-04-10 05:40:27

End at: 2018-04-10 05:40:57

Below is generated by plot.py at 2018-04-10 10:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 90.733 ms

Loss rate: 0.00%

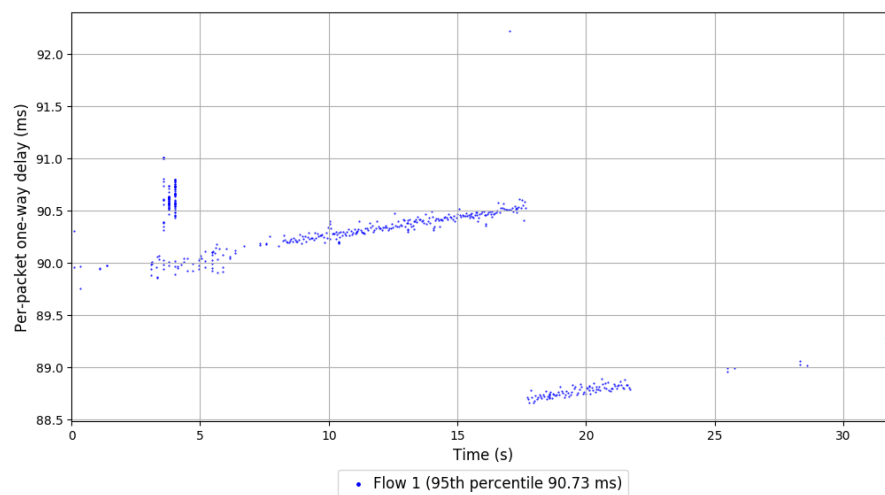
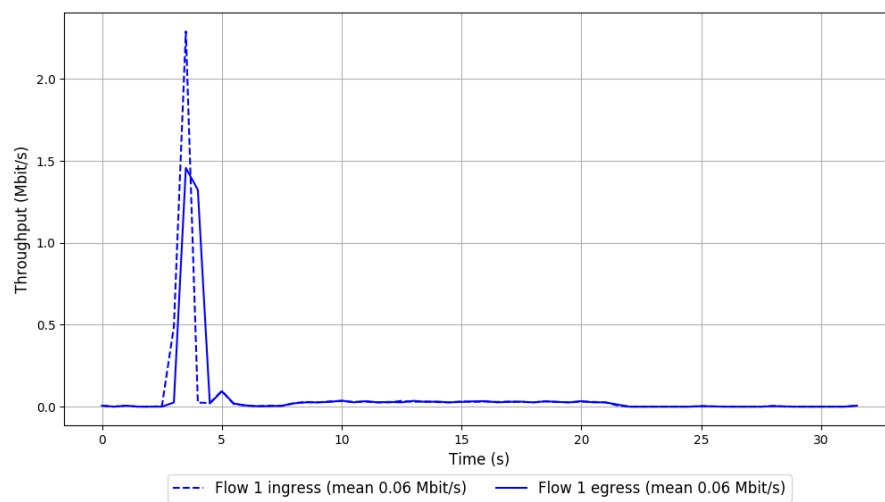
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 90.733 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-04-10 05:55:40

End at: 2018-04-10 05:56:10

Below is generated by plot.py at 2018-04-10 10:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 101.673 ms

Loss rate: 0.00%

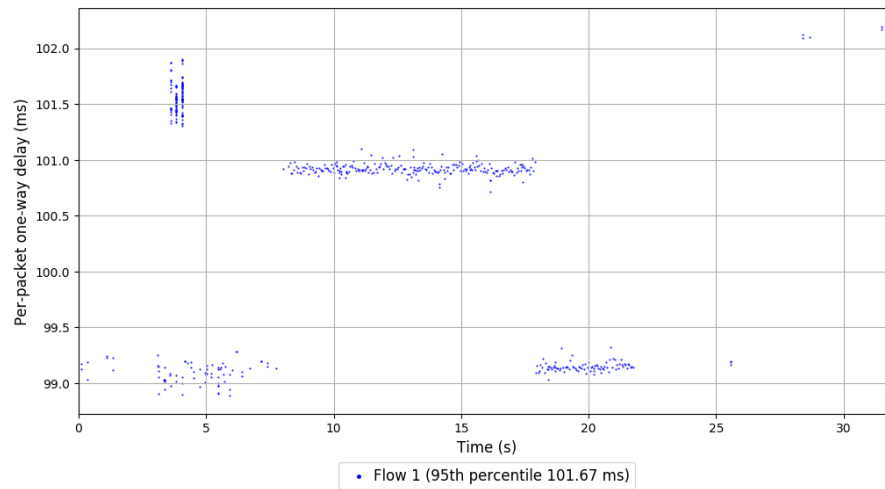
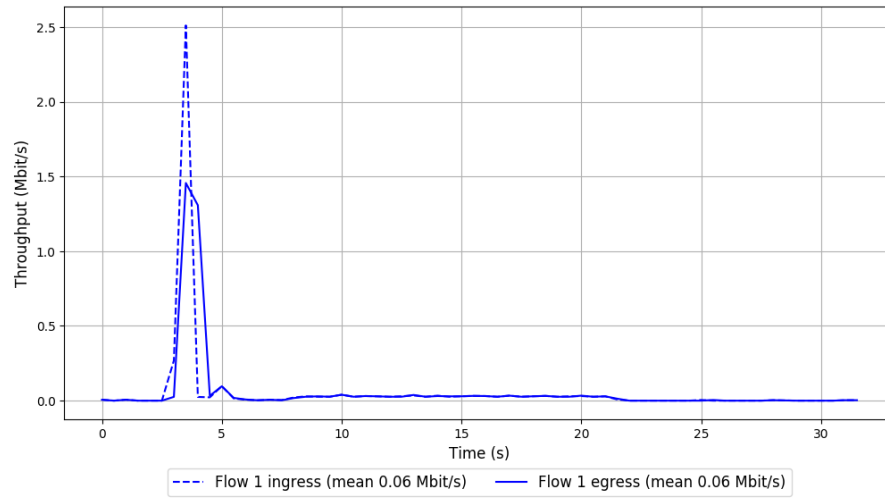
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 101.673 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-04-10 06:11:02

End at: 2018-04-10 06:11:32

Below is generated by plot.py at 2018-04-10 10:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 98.867 ms

Loss rate: 0.00%

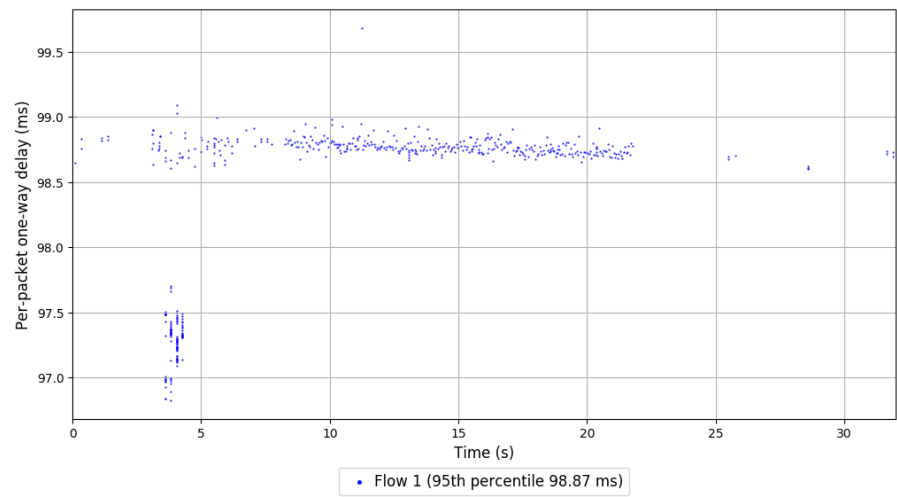
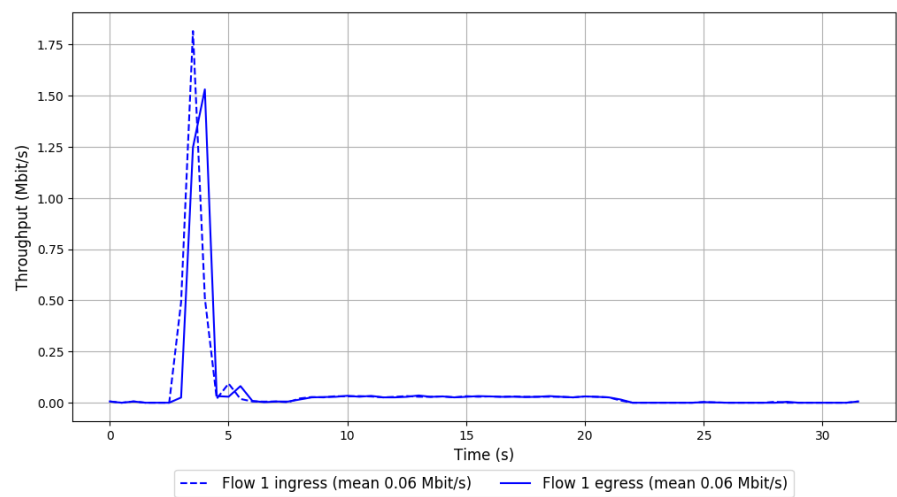
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 98.867 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-04-10 06:26:19

End at: 2018-04-10 06:26:49

Below is generated by plot.py at 2018-04-10 10:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 107.736 ms

Loss rate: 0.00%

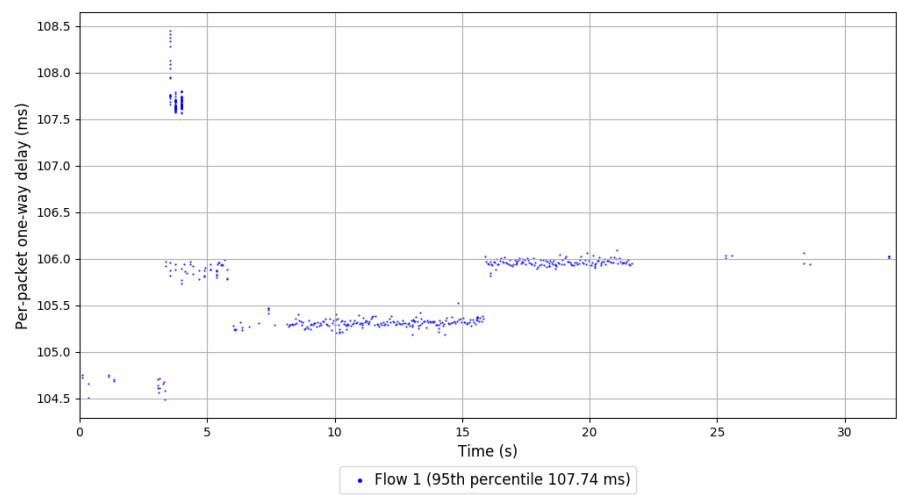
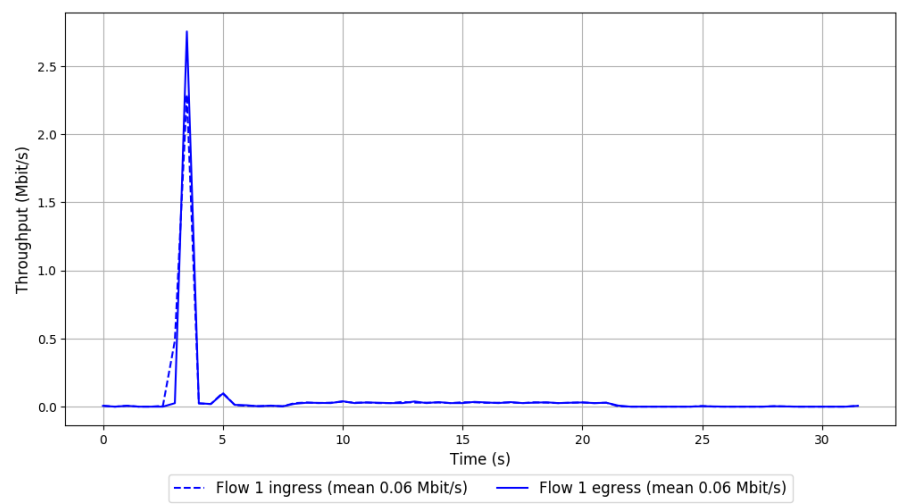
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 107.736 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-04-10 06:41:06

End at: 2018-04-10 06:41:36

Below is generated by plot.py at 2018-04-10 10:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 107.218 ms

Loss rate: 0.00%

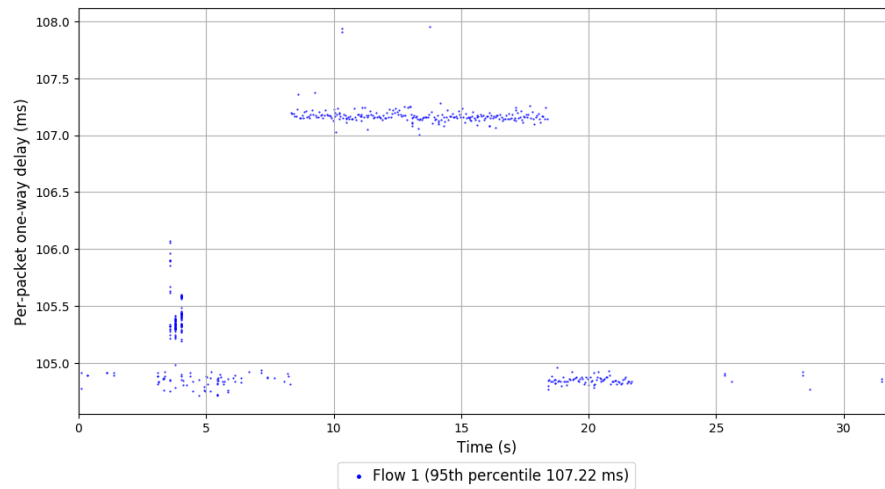
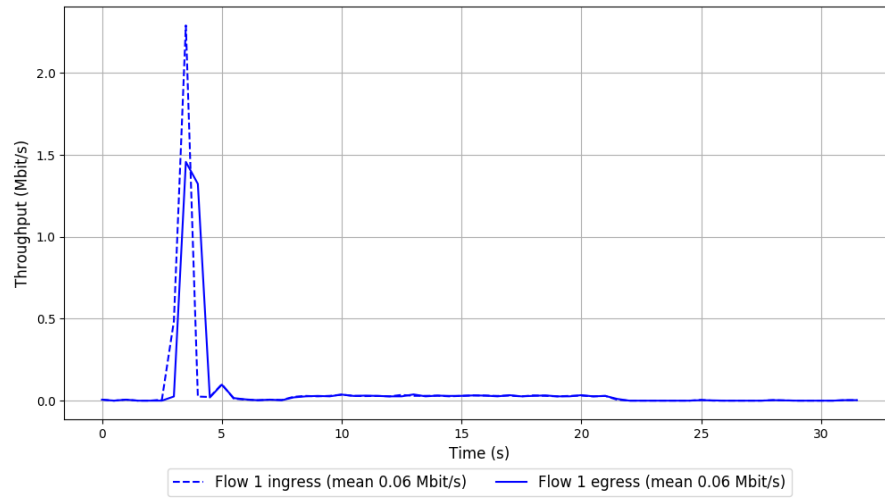
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 107.218 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link

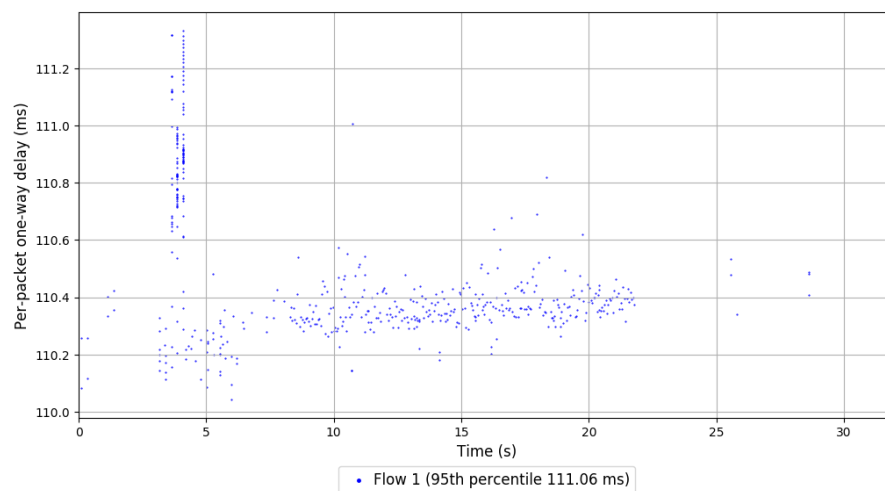
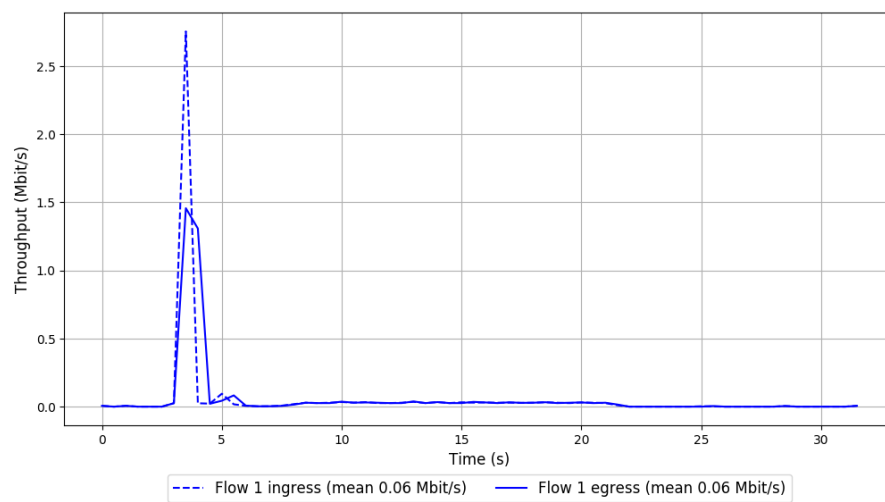


```
Run 10: Statistics of WebRTC media

Start at: 2018-04-10 06:55:53
End at: 2018-04-10 06:56:23

# Below is generated by plot.py at 2018-04-10 10:02:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 111.056 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 111.056 ms
Loss rate: 0.00%
```

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-04-10 04:41:35

End at: 2018-04-10 04:42:05

Below is generated by plot.py at 2018-04-10 10:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 107.333 ms

Loss rate: 0.36%

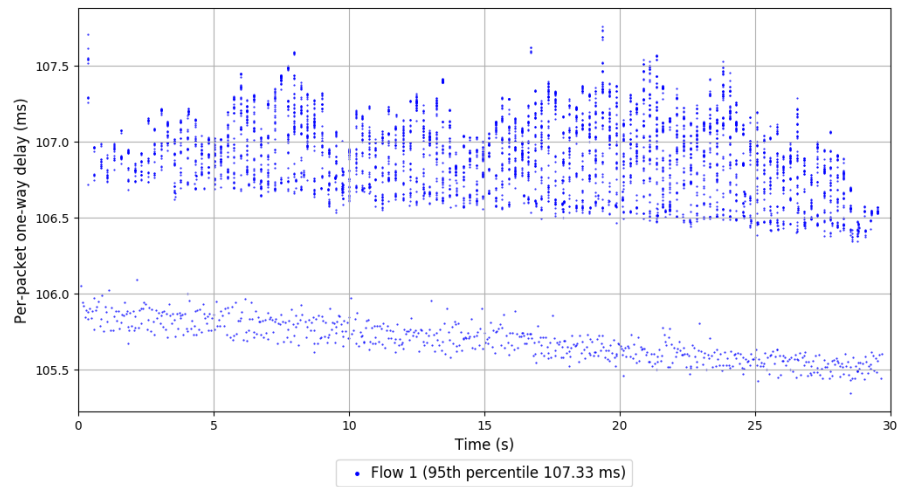
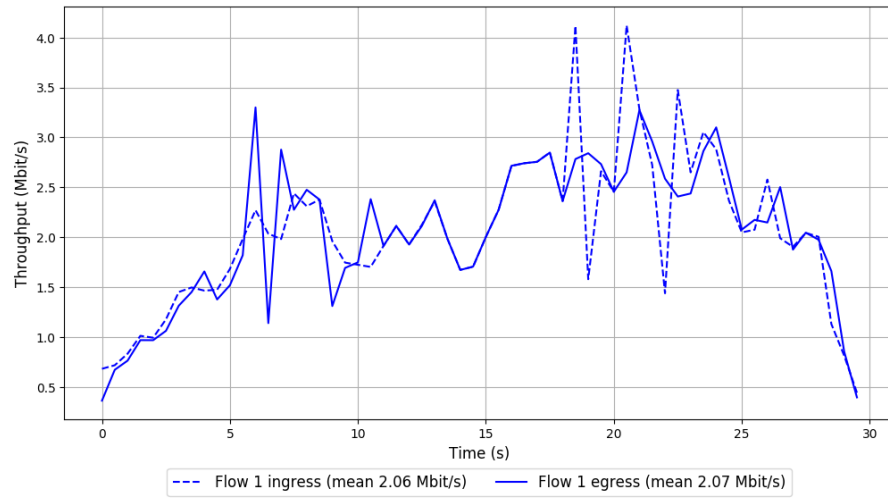
-- Flow 1:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 107.333 ms

Loss rate: 0.36%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-04-10 04:56:47

End at: 2018-04-10 04:57:17

Below is generated by plot.py at 2018-04-10 10:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 101.522 ms

Loss rate: 1.28%

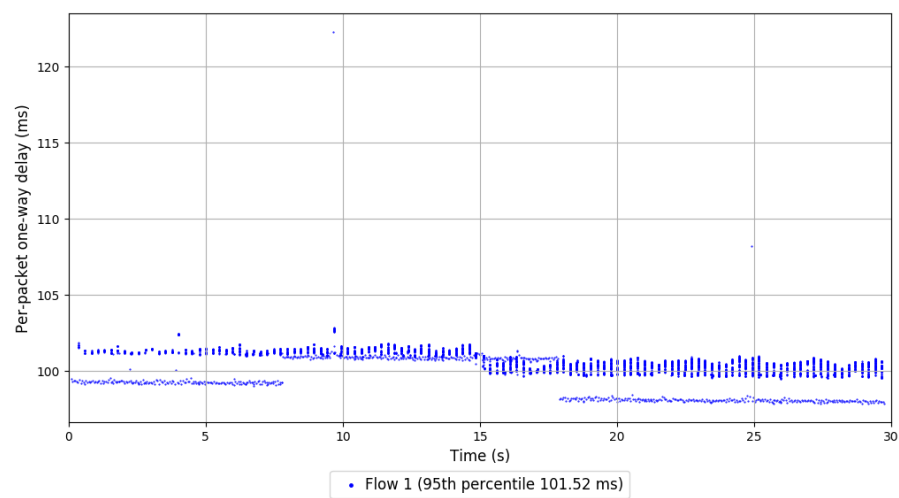
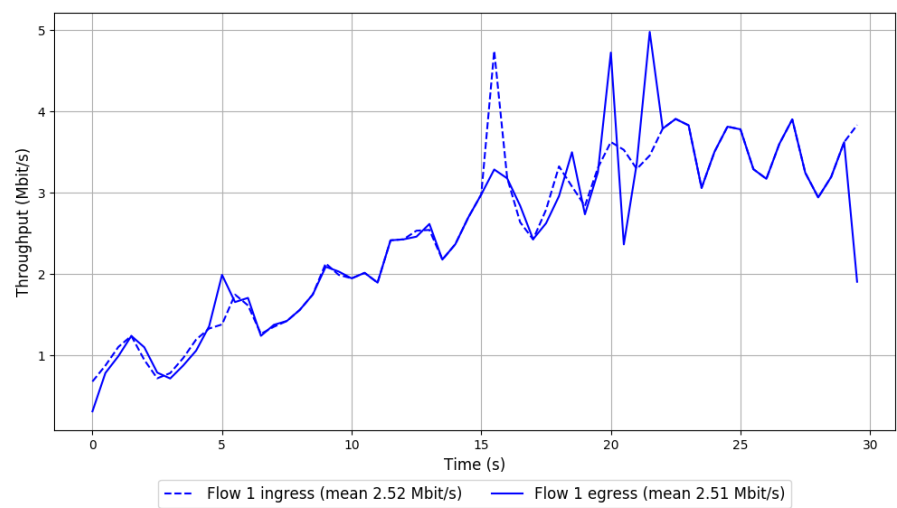
-- Flow 1:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 101.522 ms

Loss rate: 1.28%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-04-10 05:11:56

End at: 2018-04-10 05:12:26

Below is generated by plot.py at 2018-04-10 10:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.72 Mbit/s

95th percentile per-packet one-way delay: 99.812 ms

Loss rate: 1.27%

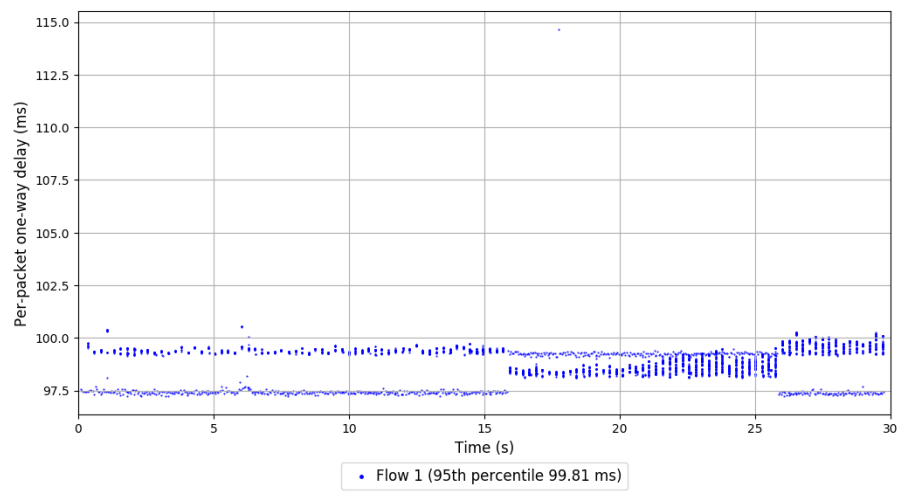
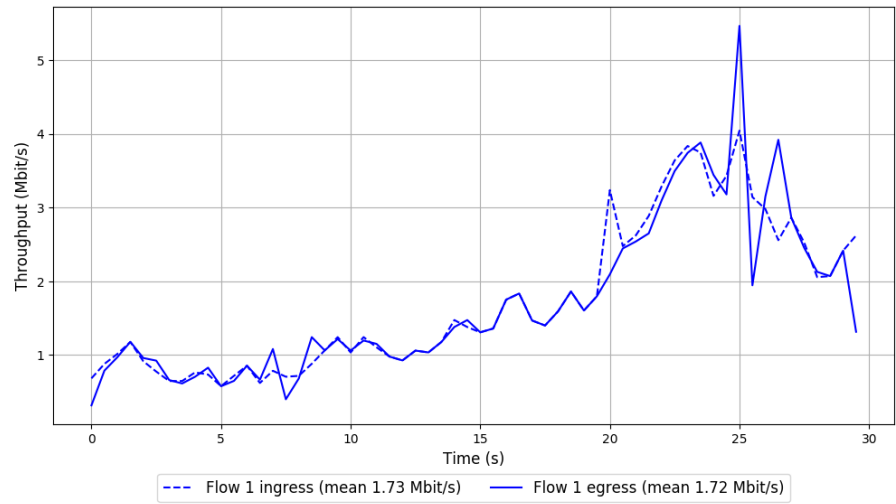
-- Flow 1:

Average throughput: 1.72 Mbit/s

95th percentile per-packet one-way delay: 99.812 ms

Loss rate: 1.27%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-04-10 05:26:58

End at: 2018-04-10 05:27:28

Below is generated by plot.py at 2018-04-10 10:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 93.478 ms

Loss rate: 1.52%

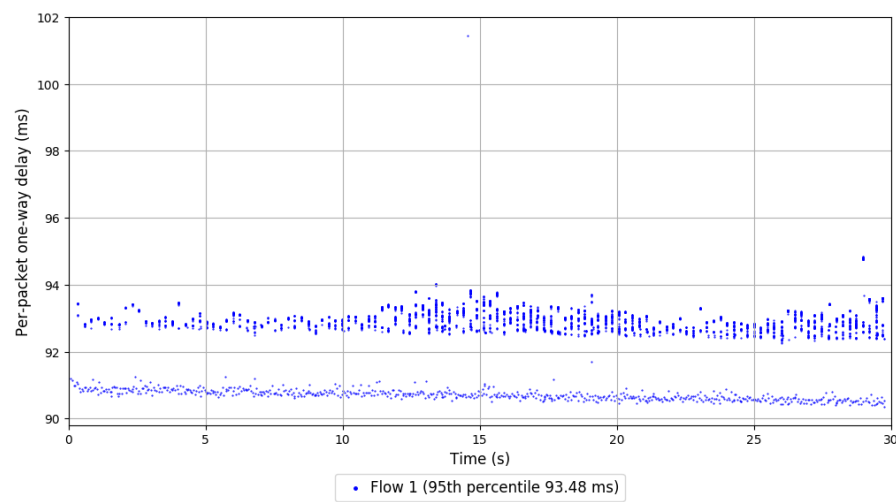
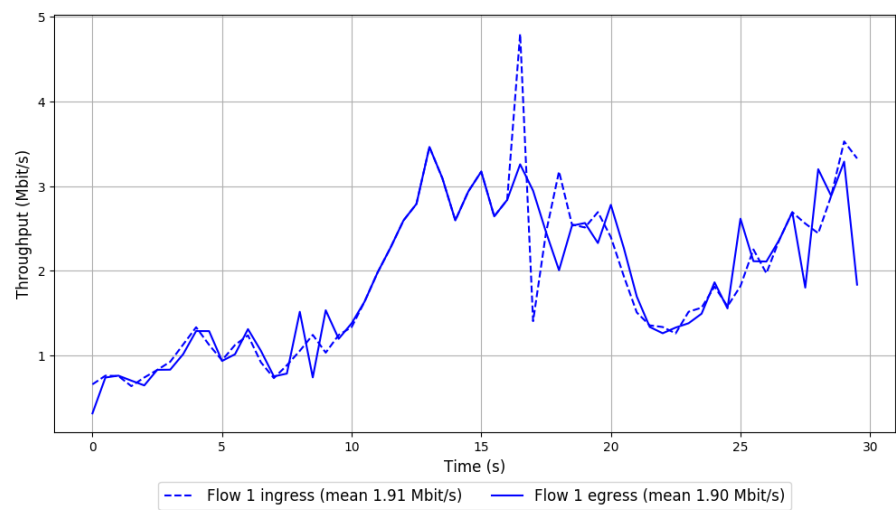
-- Flow 1:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 93.478 ms

Loss rate: 1.52%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-04-10 05:41:59

End at: 2018-04-10 05:42:29

Below is generated by plot.py at 2018-04-10 10:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 94.683 ms

Loss rate: 1.05%

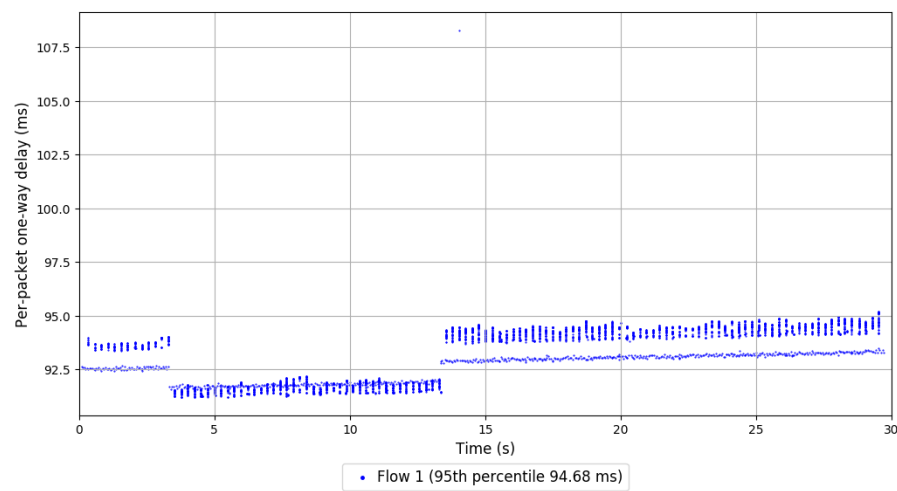
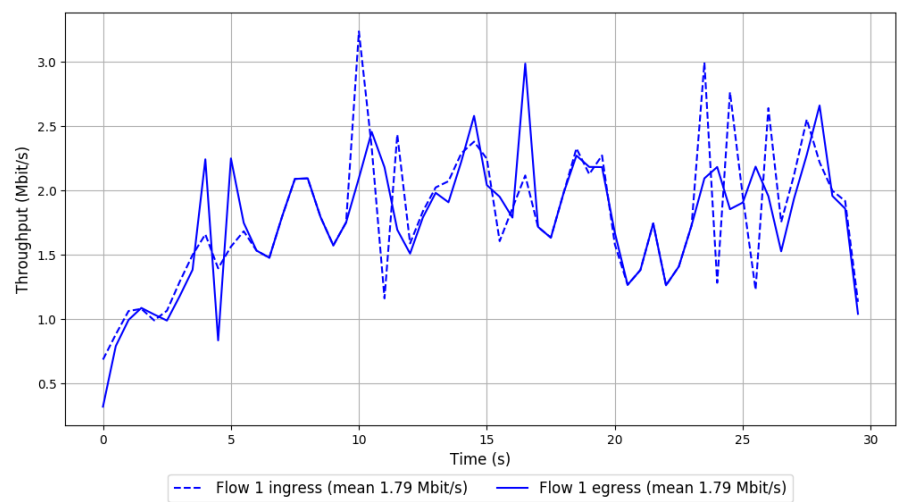
-- Flow 1:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 94.683 ms

Loss rate: 1.05%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-04-10 05:57:15

End at: 2018-04-10 05:57:45

Below is generated by plot.py at 2018-04-10 10:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 102.405 ms

Loss rate: 0.76%

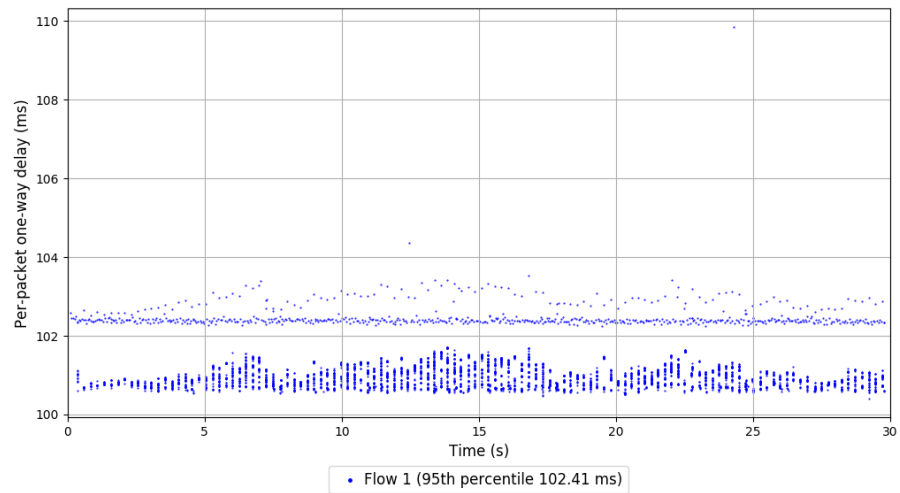
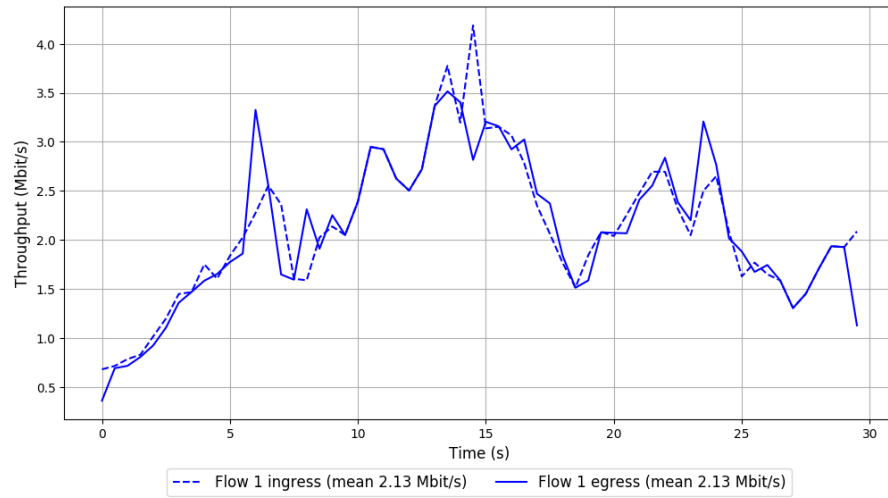
-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 102.405 ms

Loss rate: 0.76%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-04-10 06:12:37

End at: 2018-04-10 06:13:07

Below is generated by plot.py at 2018-04-10 10:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 98.761 ms

Loss rate: 1.03%

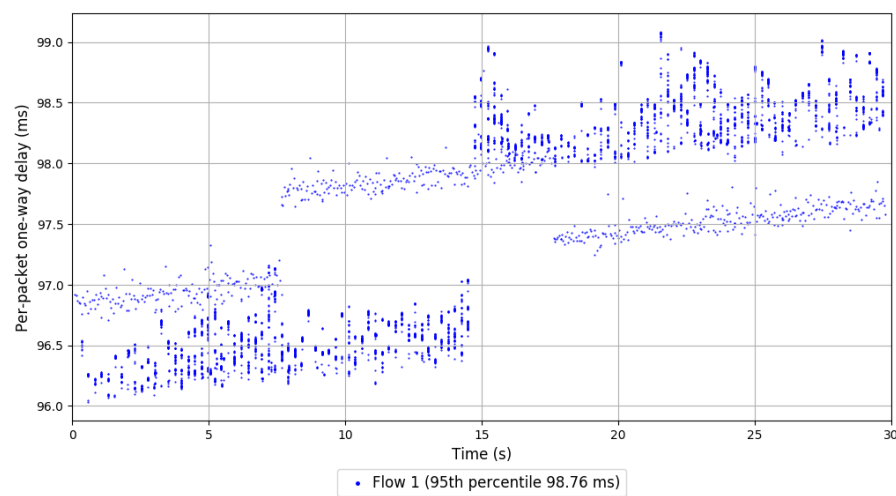
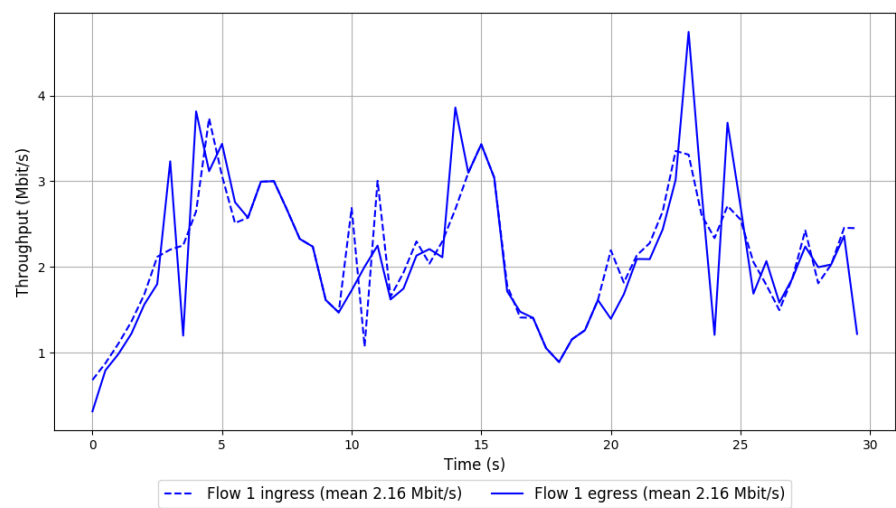
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 98.761 ms

Loss rate: 1.03%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-04-10 06:27:54

End at: 2018-04-10 06:28:24

Below is generated by plot.py at 2018-04-10 10:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 108.472 ms

Loss rate: 0.66%

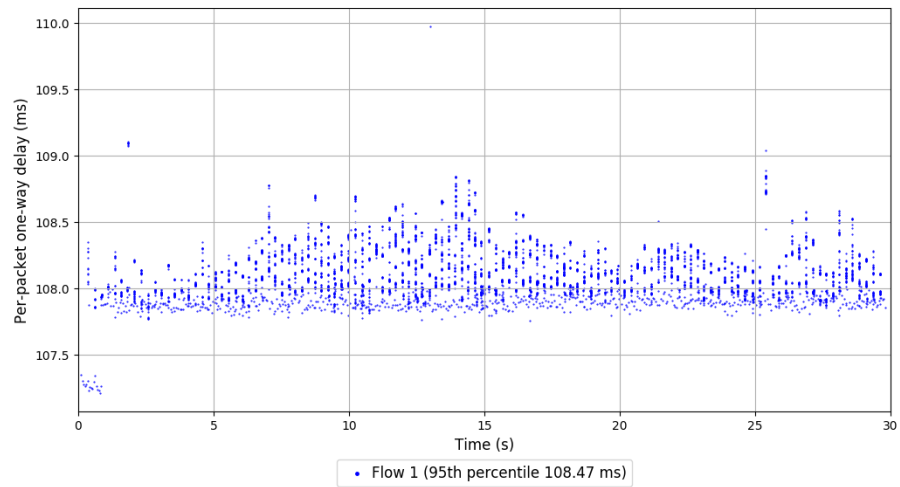
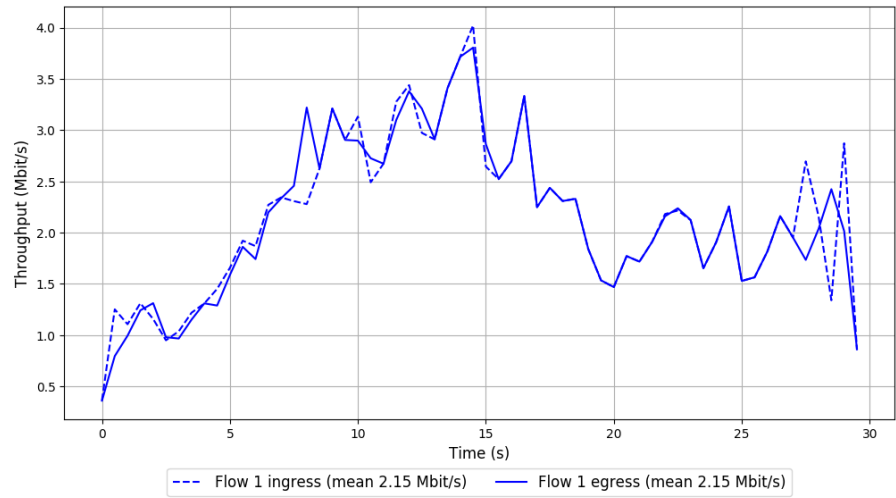
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 108.472 ms

Loss rate: 0.66%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-04-10 06:42:42

End at: 2018-04-10 06:43:12

Below is generated by plot.py at 2018-04-10 10:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 107.590 ms

Loss rate: 1.18%

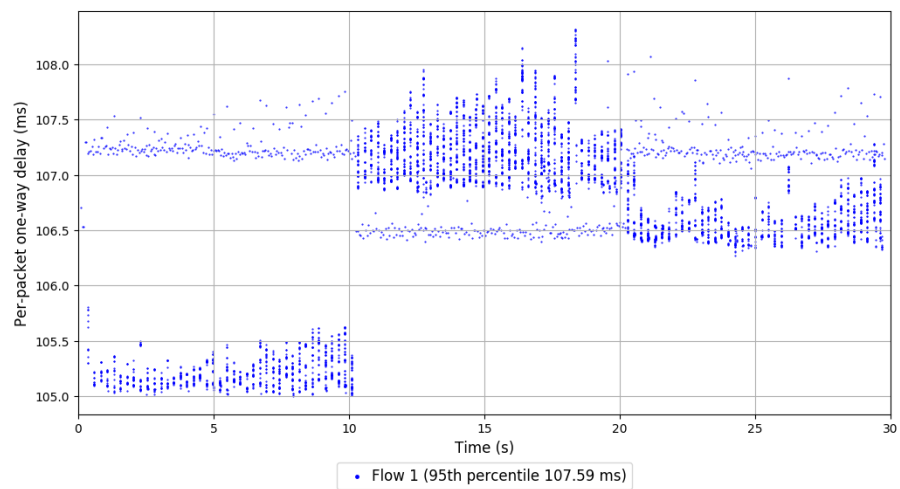
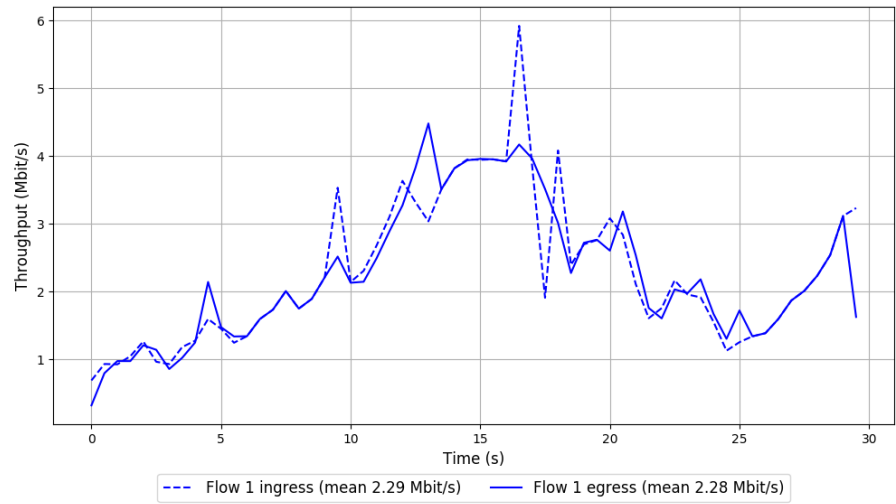
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 107.590 ms

Loss rate: 1.18%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-04-10 06:57:26

End at: 2018-04-10 06:57:56

Below is generated by plot.py at 2018-04-10 10:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 112.816 ms

Loss rate: 0.00%

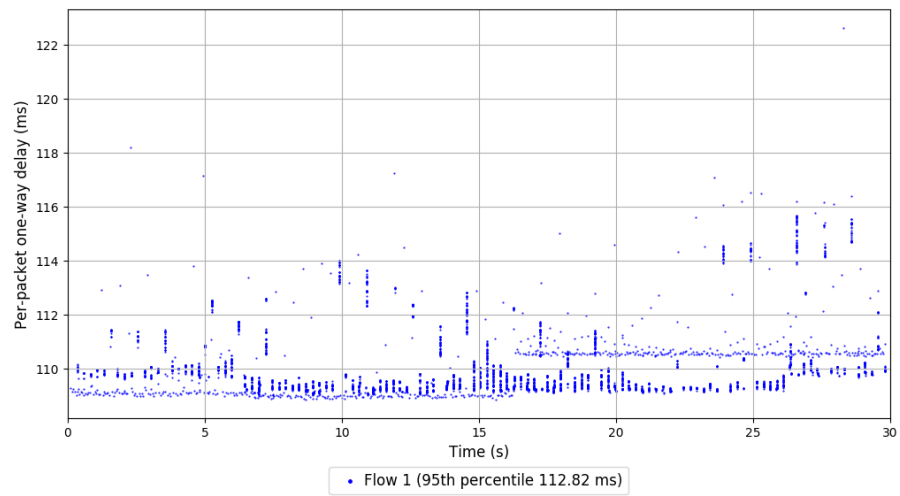
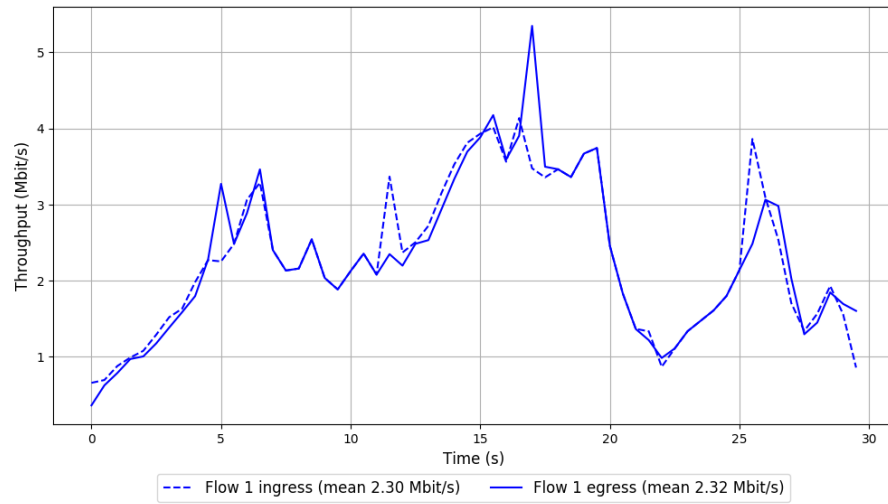
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 112.816 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

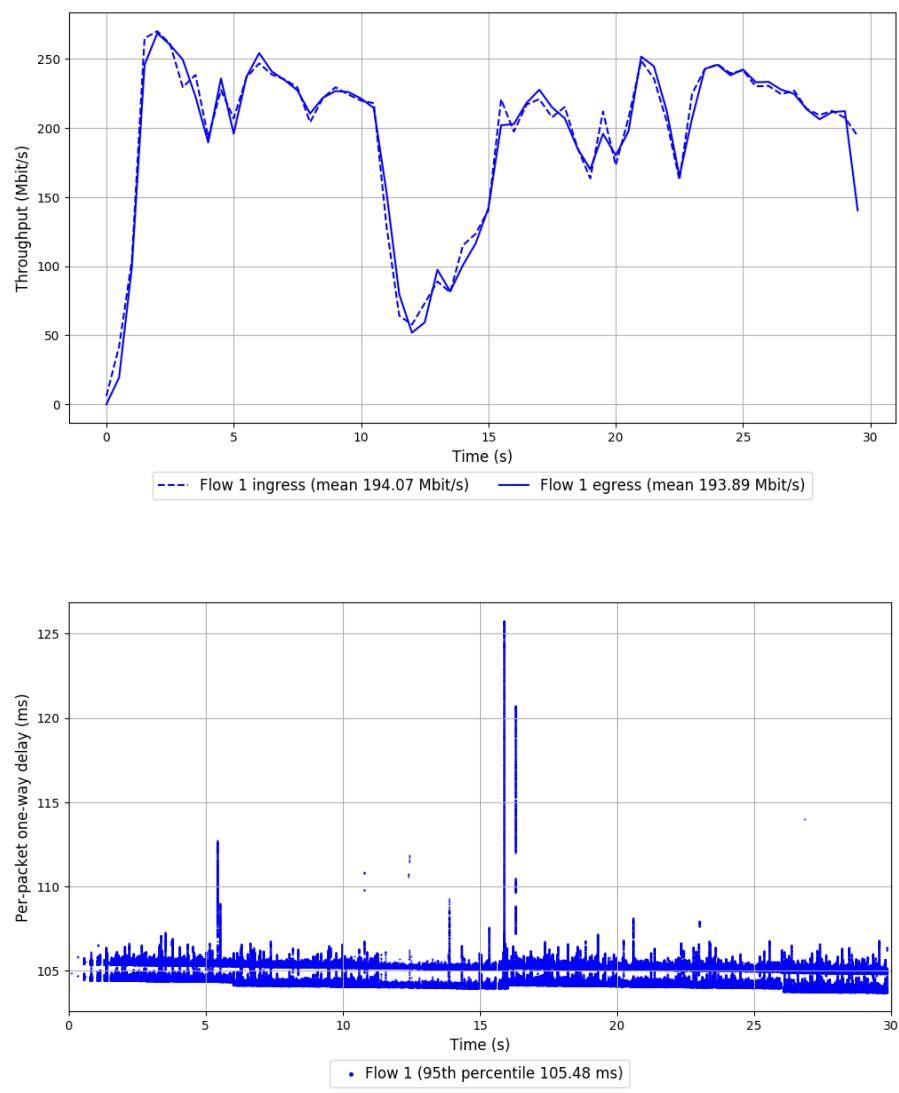


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-04-10 04:42:56
End at: 2018-04-10 04:43:26

# Below is generated by plot.py at 2018-04-10 10:03:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 193.89 Mbit/s
95th percentile per-packet one-way delay: 105.484 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 193.89 Mbit/s
95th percentile per-packet one-way delay: 105.484 ms
Loss rate: 0.84%
```

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

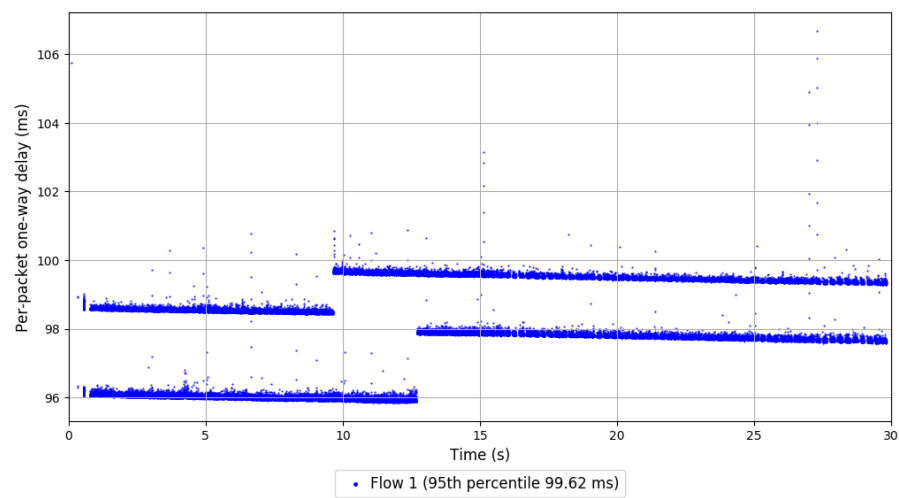
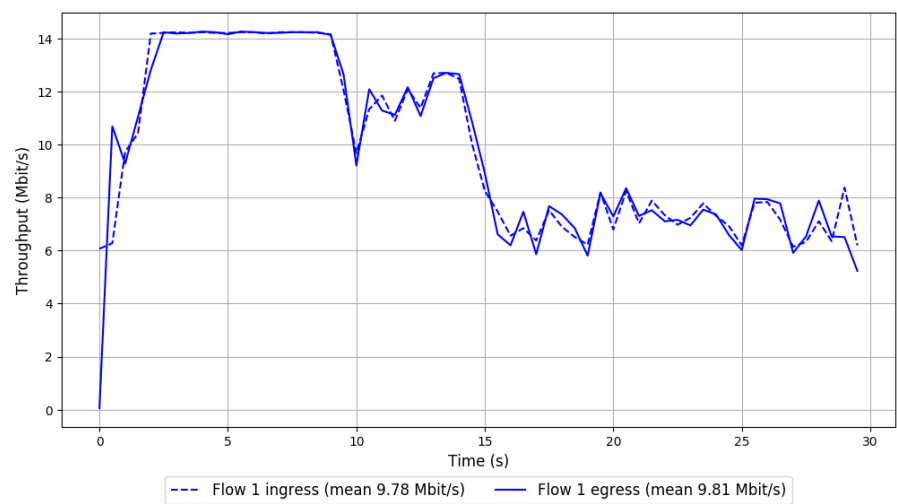


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-04-10 04:58:12
End at: 2018-04-10 04:58:42

# Below is generated by plot.py at 2018-04-10 10:03:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.81 Mbit/s
95th percentile per-packet one-way delay: 99.625 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 9.81 Mbit/s
95th percentile per-packet one-way delay: 99.625 ms
Loss rate: 0.53%
```

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

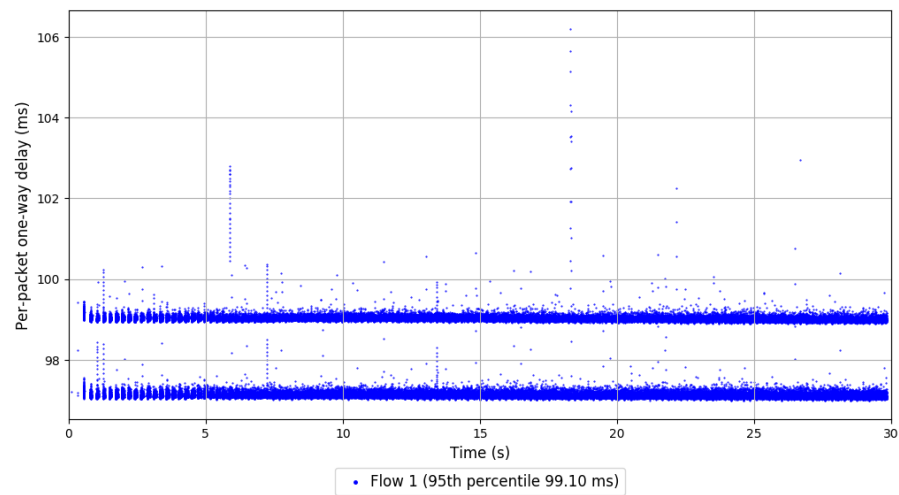
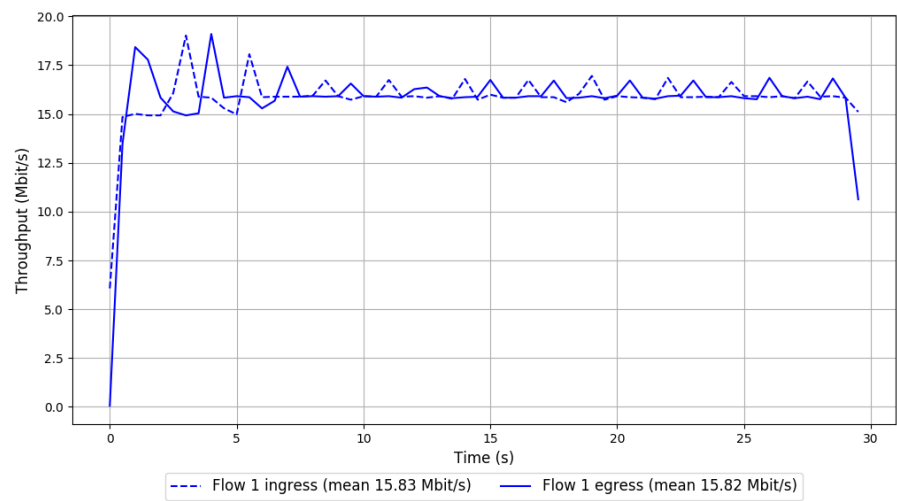


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-04-10 05:13:22
End at: 2018-04-10 05:13:52

# Below is generated by plot.py at 2018-04-10 10:03:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.82 Mbit/s
95th percentile per-packet one-way delay: 99.100 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 15.82 Mbit/s
95th percentile per-packet one-way delay: 99.100 ms
Loss rate: 0.77%
```

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

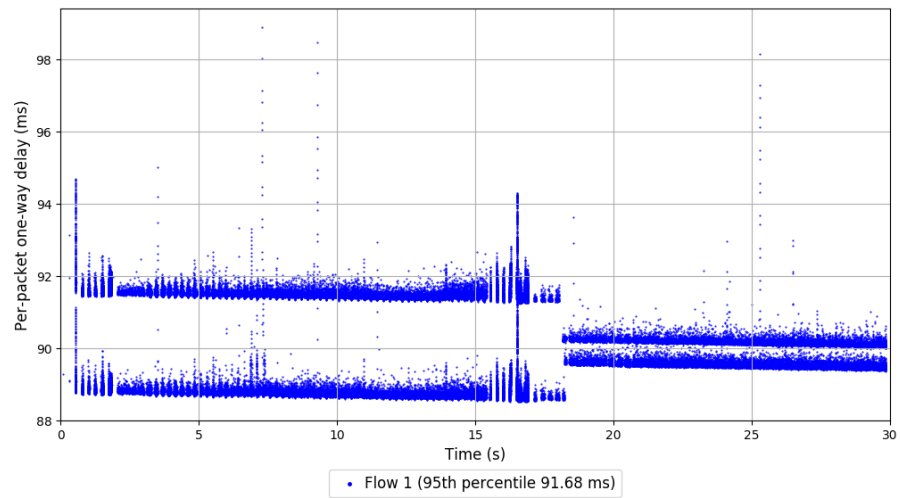
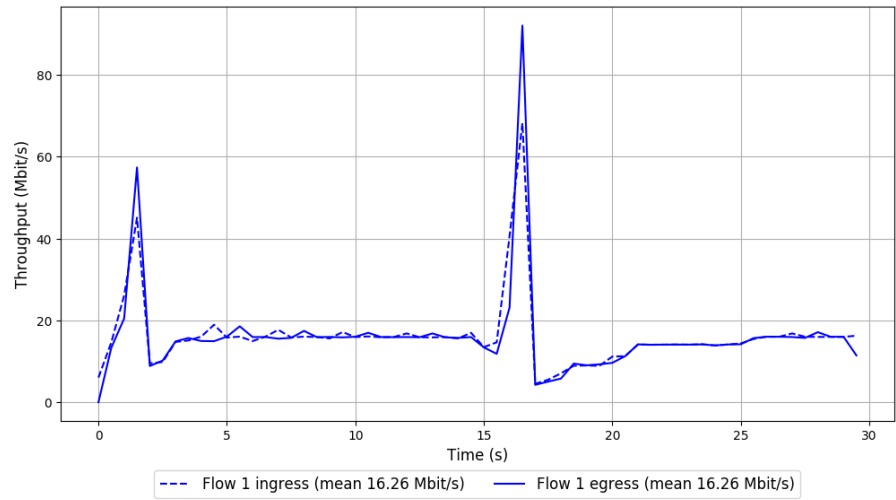


```
Run 4: Statistics of TaoVA-100x

Start at: 2018-04-10 05:28:24
End at: 2018-04-10 05:28:54

# Below is generated by plot.py at 2018-04-10 10:03:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 16.26 Mbit/s
95th percentile per-packet one-way delay: 91.681 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 16.26 Mbit/s
95th percentile per-packet one-way delay: 91.681 ms
Loss rate: 0.75%
```

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-04-10 05:43:24

End at: 2018-04-10 05:43:54

Below is generated by plot.py at 2018-04-10 10:03:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.71 Mbit/s

95th percentile per-packet one-way delay: 95.985 ms

Loss rate: 0.84%

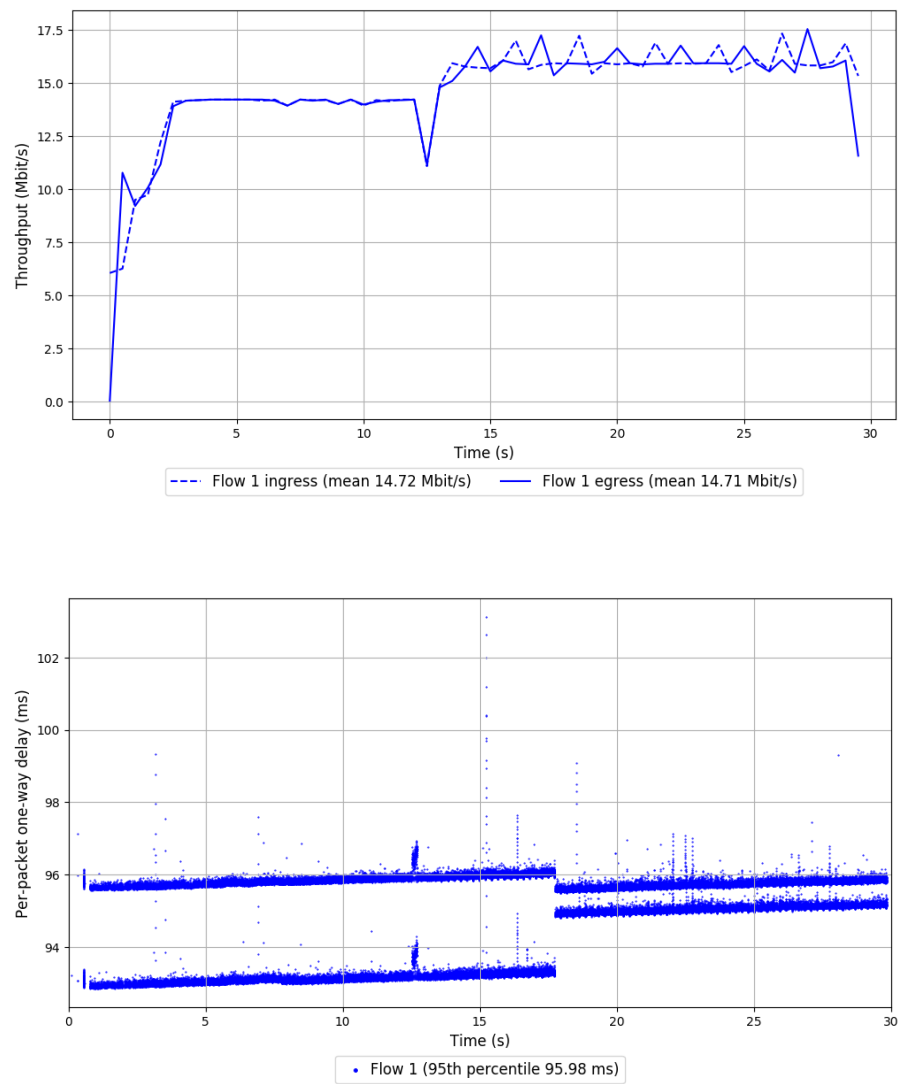
-- Flow 1:

Average throughput: 14.71 Mbit/s

95th percentile per-packet one-way delay: 95.985 ms

Loss rate: 0.84%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-04-10 05:58:41

End at: 2018-04-10 05:59:11

Below is generated by plot.py at 2018-04-10 10:03:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 165.87 Mbit/s

95th percentile per-packet one-way delay: 101.440 ms

Loss rate: 0.94%

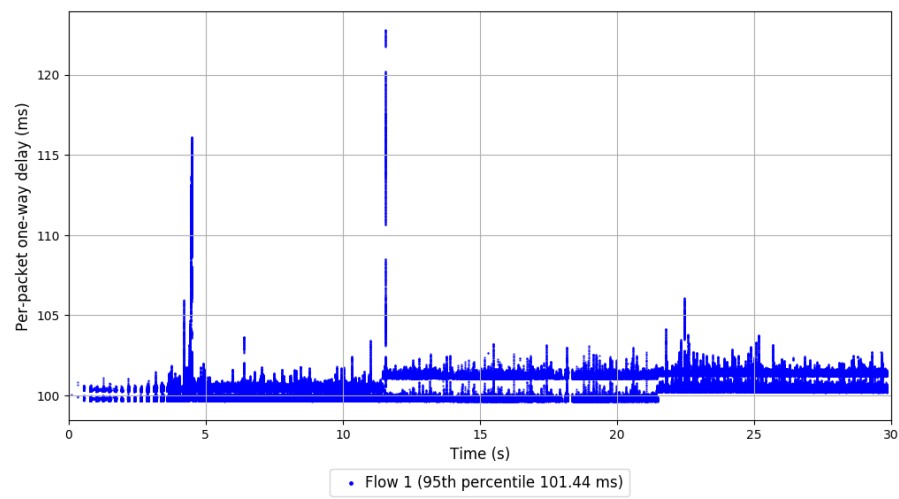
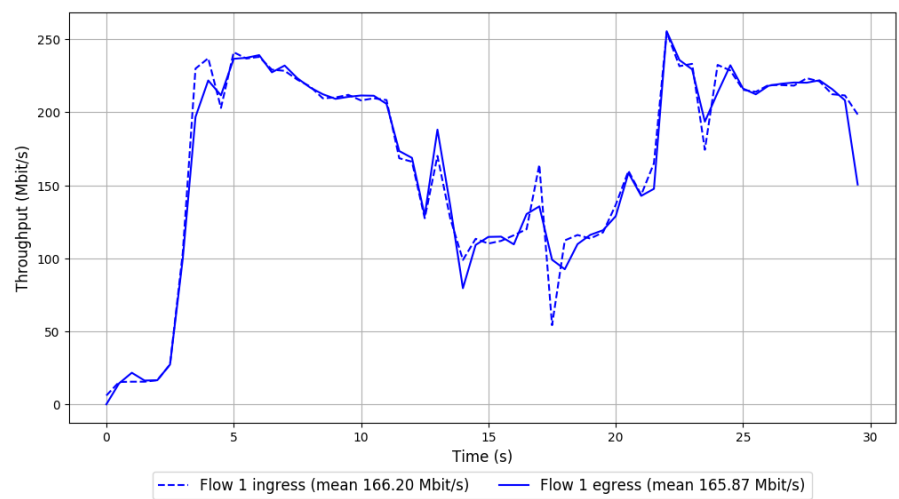
-- Flow 1:

Average throughput: 165.87 Mbit/s

95th percentile per-packet one-way delay: 101.440 ms

Loss rate: 0.94%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-04-10 06:14:03

End at: 2018-04-10 06:14:33

Below is generated by plot.py at 2018-04-10 10:03:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 108.34 Mbit/s

95th percentile per-packet one-way delay: 101.463 ms

Loss rate: 1.75%

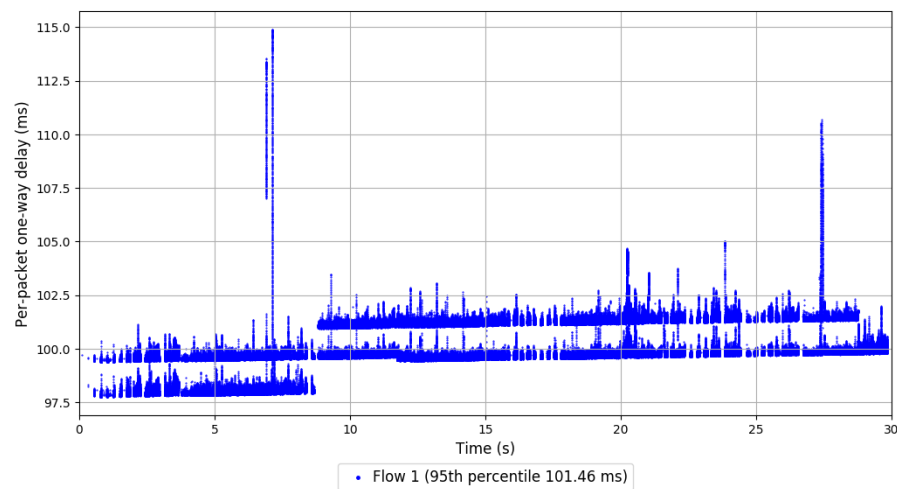
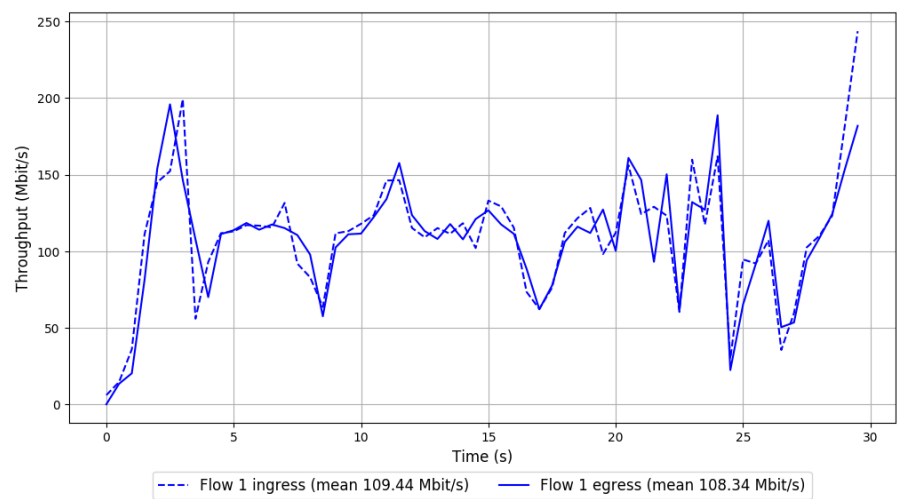
-- Flow 1:

Average throughput: 108.34 Mbit/s

95th percentile per-packet one-way delay: 101.463 ms

Loss rate: 1.75%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-04-10 06:29:20

End at: 2018-04-10 06:29:50

Below is generated by plot.py at 2018-04-10 10:03:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.00 Mbit/s

95th percentile per-packet one-way delay: 107.901 ms

Loss rate: 0.77%

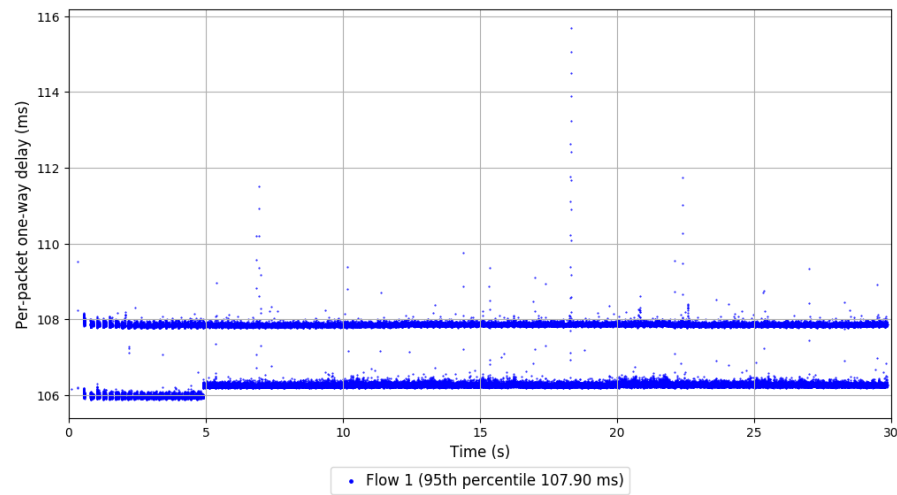
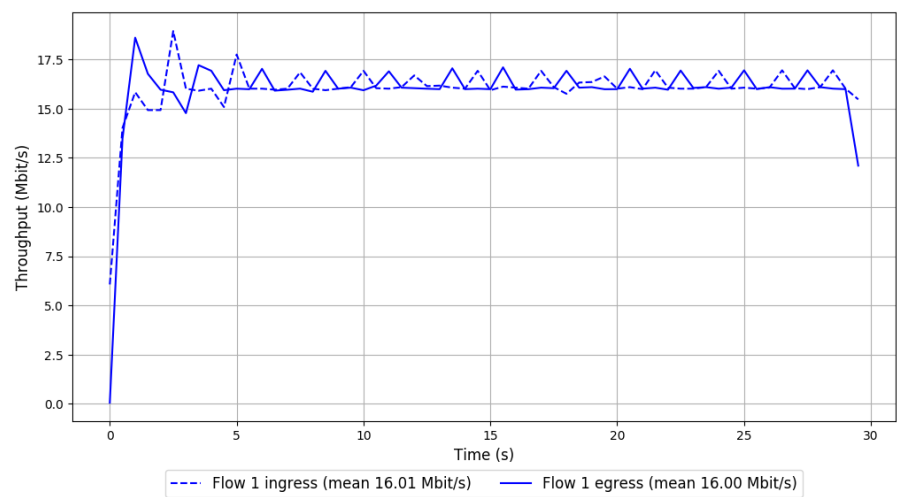
-- Flow 1:

Average throughput: 16.00 Mbit/s

95th percentile per-packet one-way delay: 107.901 ms

Loss rate: 0.77%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-04-10 06:44:08

End at: 2018-04-10 06:44:38

Below is generated by plot.py at 2018-04-10 10:03:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.59 Mbit/s

95th percentile per-packet one-way delay: 106.922 ms

Loss rate: 0.80%

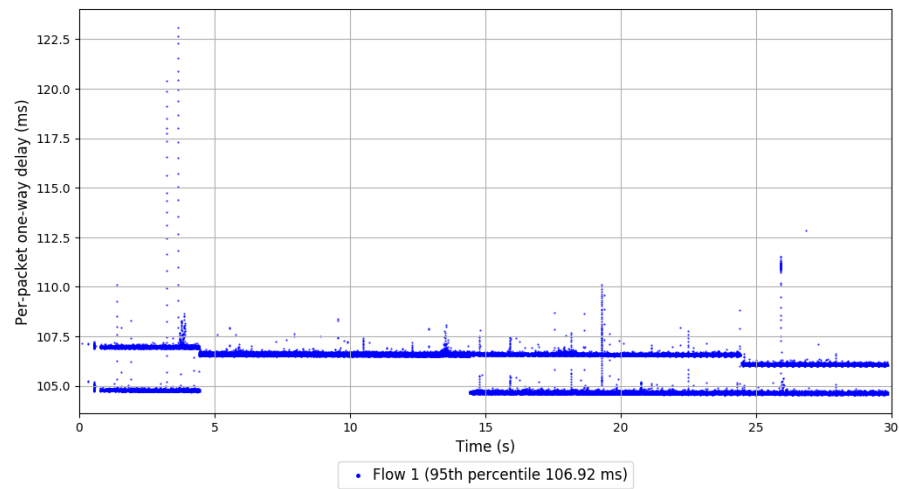
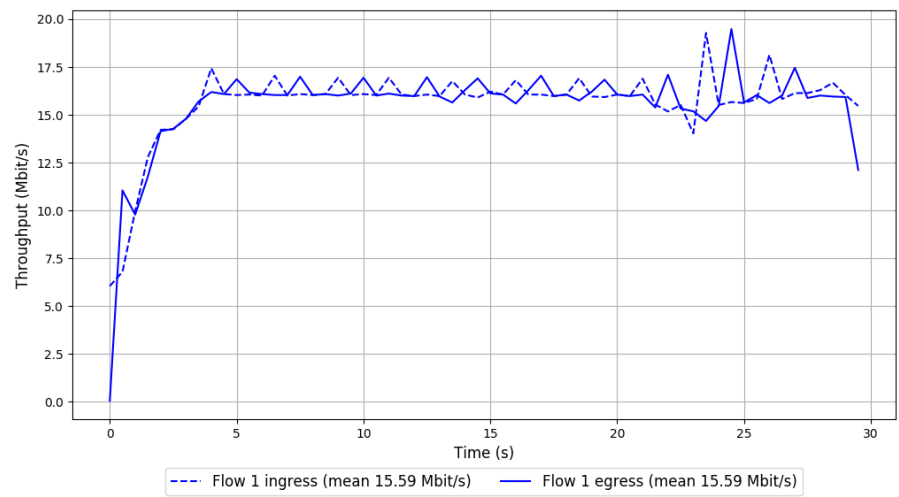
-- Flow 1:

Average throughput: 15.59 Mbit/s

95th percentile per-packet one-way delay: 106.922 ms

Loss rate: 0.80%

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

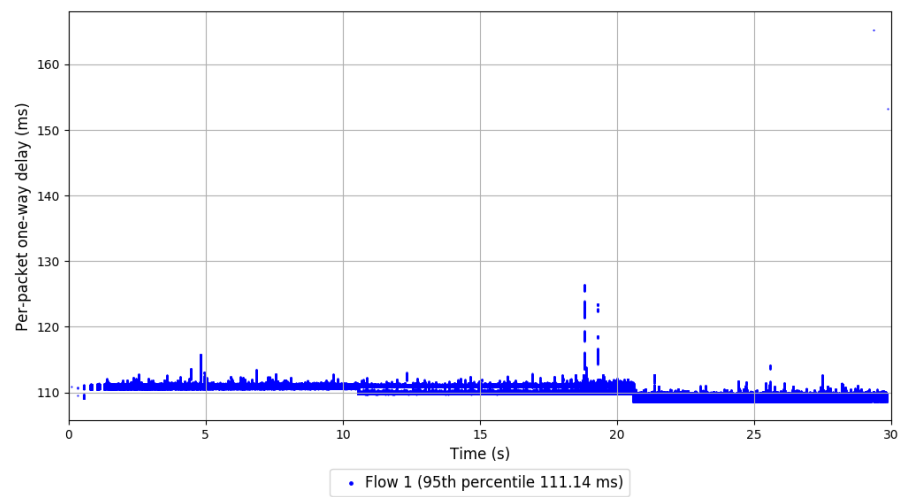
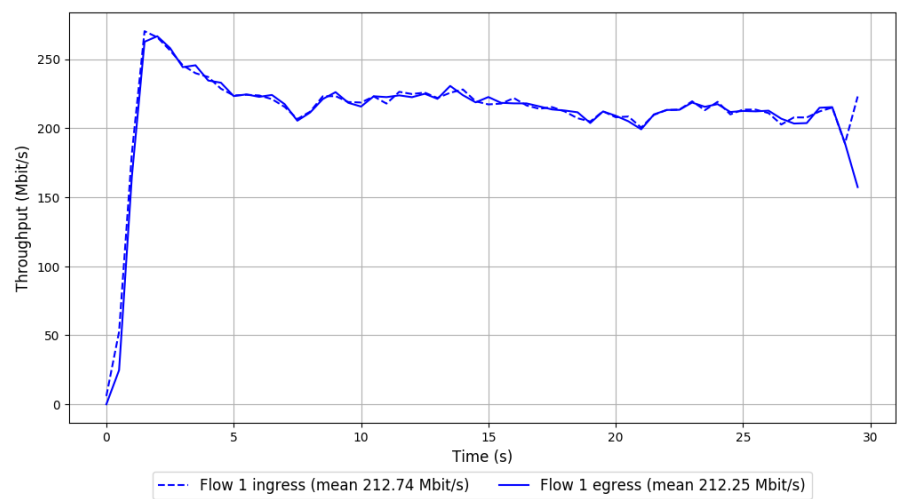


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-04-10 06:58:52
End at: 2018-04-10 06:59:22

# Below is generated by plot.py at 2018-04-10 10:04:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 212.25 Mbit/s
95th percentile per-packet one-way delay: 111.143 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 212.25 Mbit/s
95th percentile per-packet one-way delay: 111.143 ms
Loss rate: 0.89%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-04-10 04:44:57

End at: 2018-04-10 04:45:27

Below is generated by plot.py at 2018-04-10 10:04:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.05 Mbit/s

95th percentile per-packet one-way delay: 104.403 ms

Loss rate: 0.80%

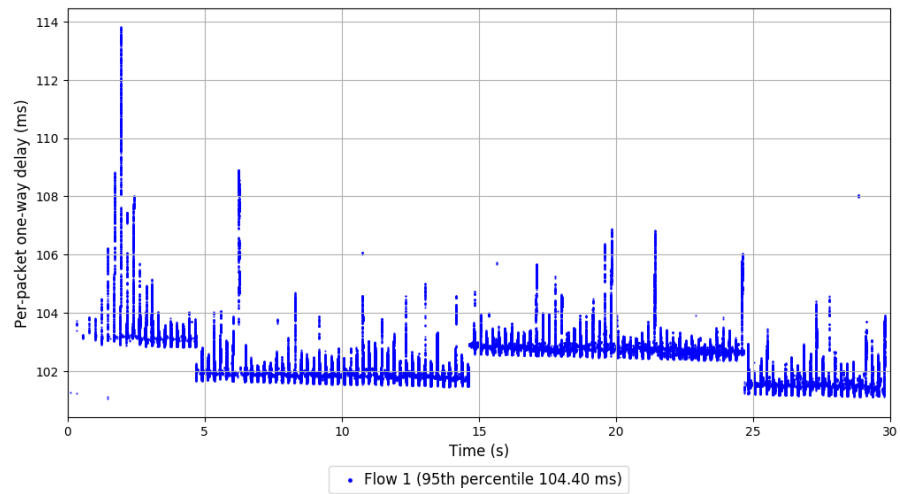
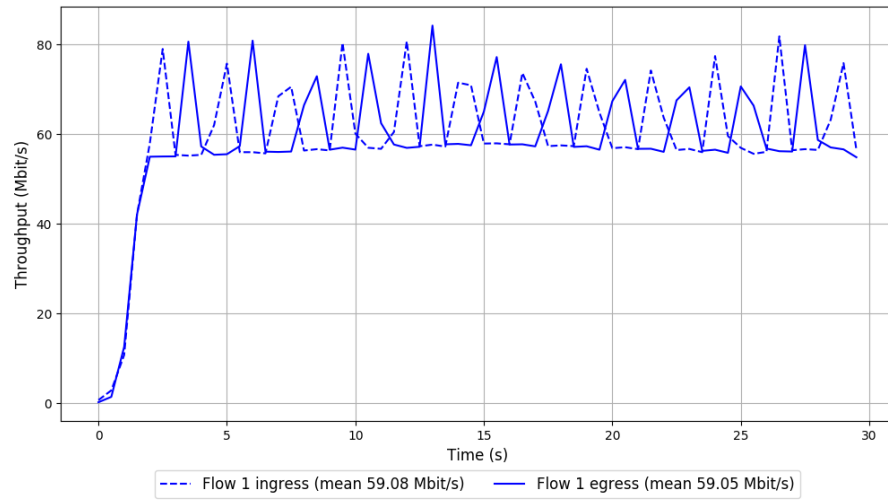
-- Flow 1:

Average throughput: 59.05 Mbit/s

95th percentile per-packet one-way delay: 104.403 ms

Loss rate: 0.80%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-04-10 04:59:52

End at: 2018-04-10 05:00:22

Below is generated by plot.py at 2018-04-10 10:04:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.25 Mbit/s

95th percentile per-packet one-way delay: 107.268 ms

Loss rate: 0.80%

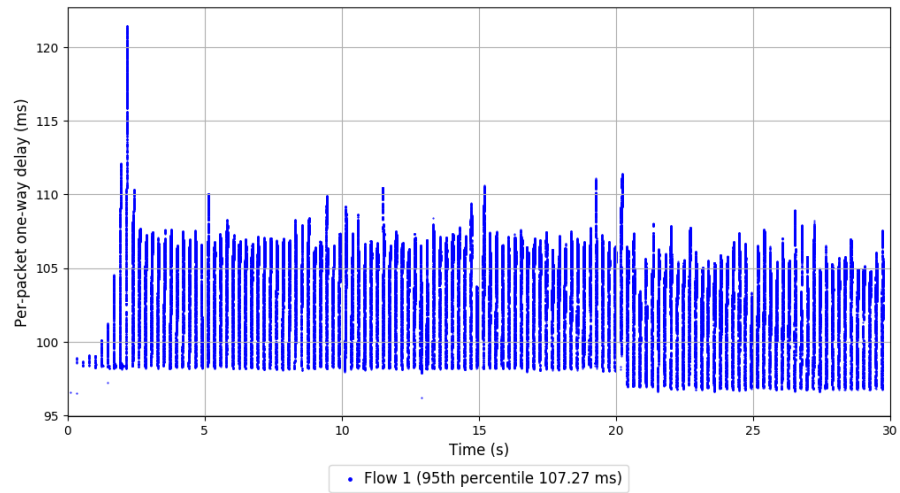
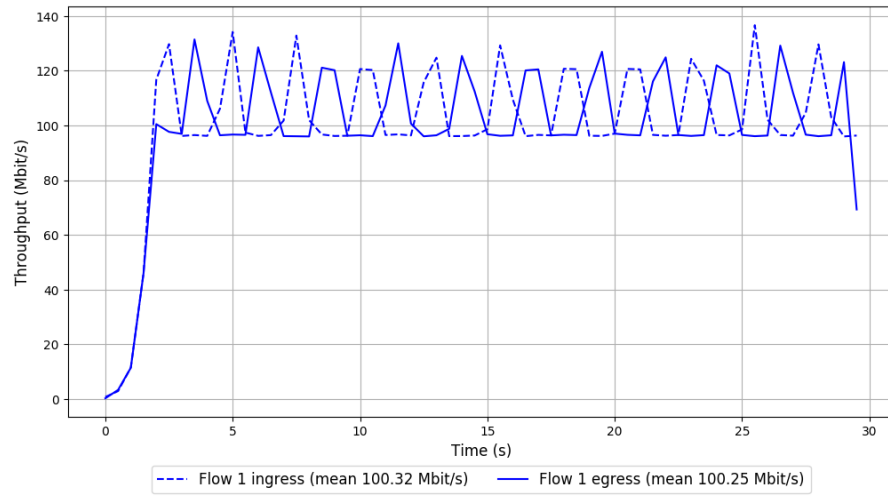
-- Flow 1:

Average throughput: 100.25 Mbit/s

95th percentile per-packet one-way delay: 107.268 ms

Loss rate: 0.80%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-04-10 05:15:06

End at: 2018-04-10 05:15:36

Below is generated by plot.py at 2018-04-10 10:04:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.00 Mbit/s

95th percentile per-packet one-way delay: 100.269 ms

Loss rate: 0.77%

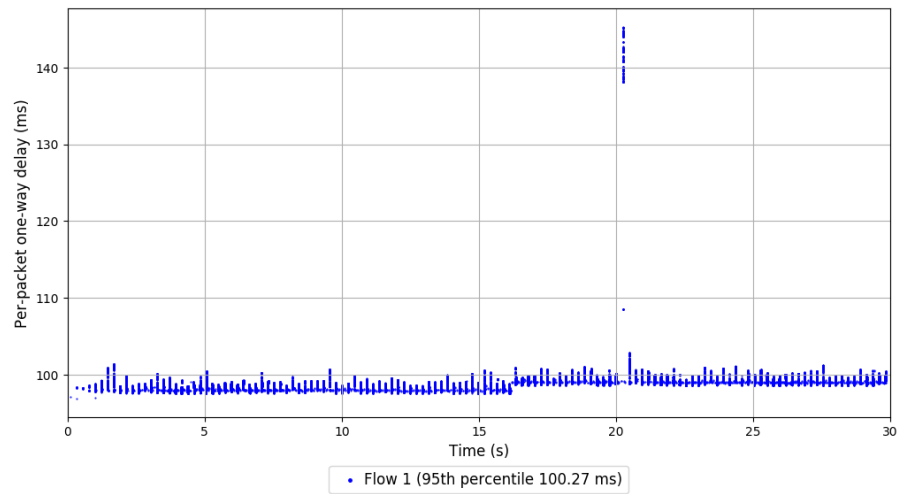
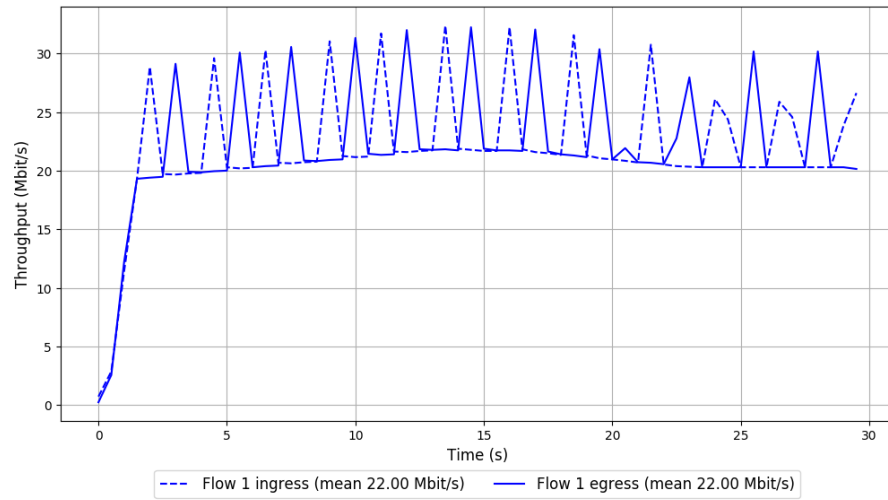
-- Flow 1:

Average throughput: 22.00 Mbit/s

95th percentile per-packet one-way delay: 100.269 ms

Loss rate: 0.77%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-04-10 05:30:06

End at: 2018-04-10 05:30:36

Below is generated by plot.py at 2018-04-10 10:04:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 99.56 Mbit/s

95th percentile per-packet one-way delay: 99.760 ms

Loss rate: 0.81%

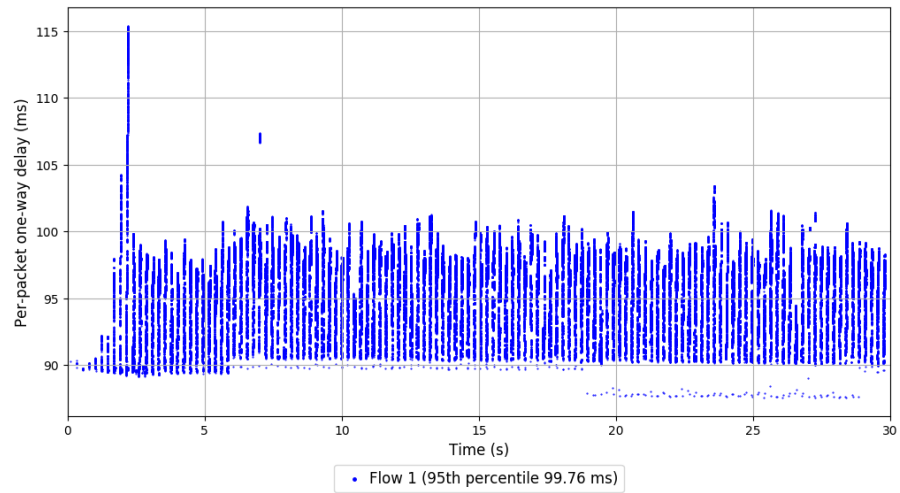
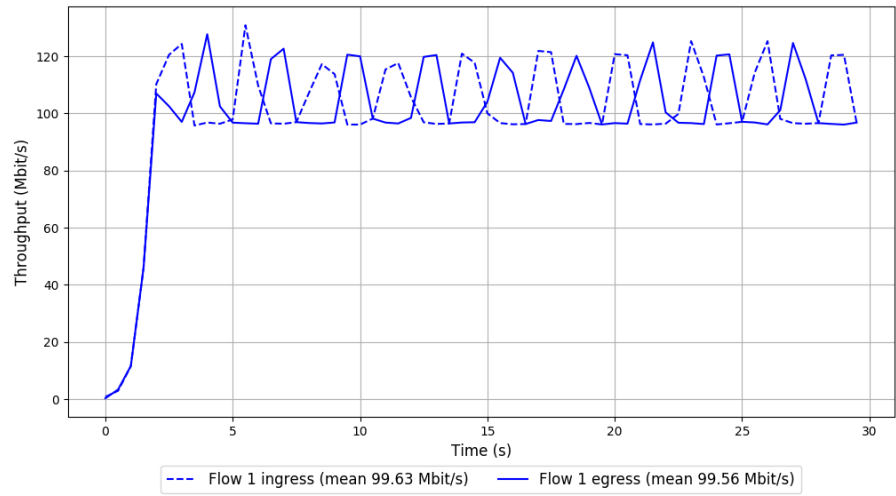
-- Flow 1:

Average throughput: 99.56 Mbit/s

95th percentile per-packet one-way delay: 99.760 ms

Loss rate: 0.81%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-04-10 05:45:11

End at: 2018-04-10 05:45:41

Below is generated by plot.py at 2018-04-10 10:04:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.24 Mbit/s

95th percentile per-packet one-way delay: 99.551 ms

Loss rate: 0.11%

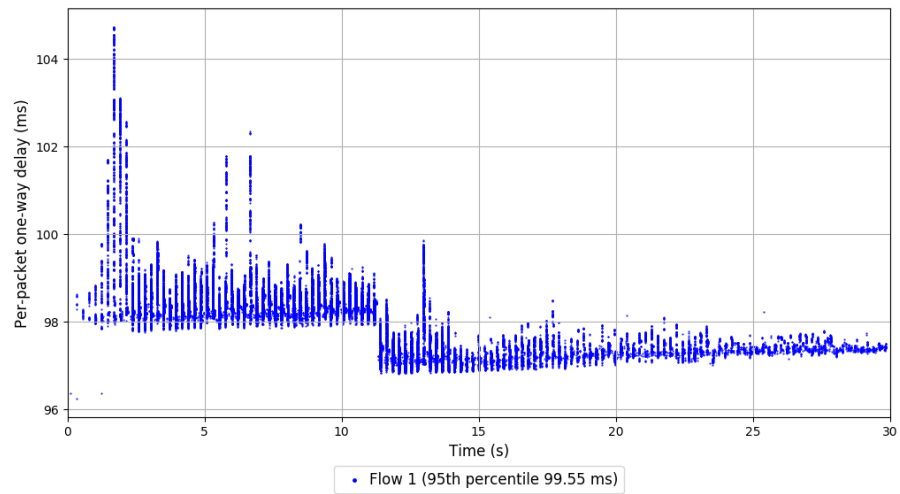
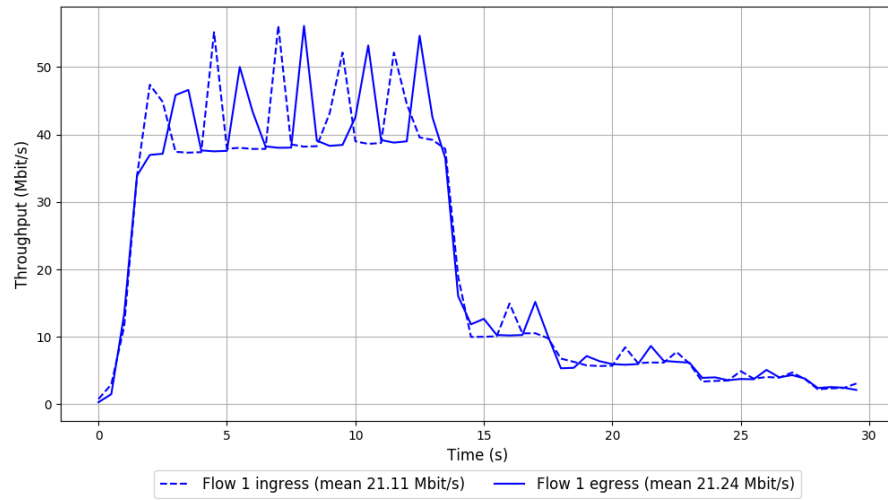
-- Flow 1:

Average throughput: 21.24 Mbit/s

95th percentile per-packet one-way delay: 99.551 ms

Loss rate: 0.11%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-04-10 06:00:38

End at: 2018-04-10 06:01:08

Below is generated by plot.py at 2018-04-10 10:04:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.24 Mbit/s

95th percentile per-packet one-way delay: 109.950 ms

Loss rate: 0.29%

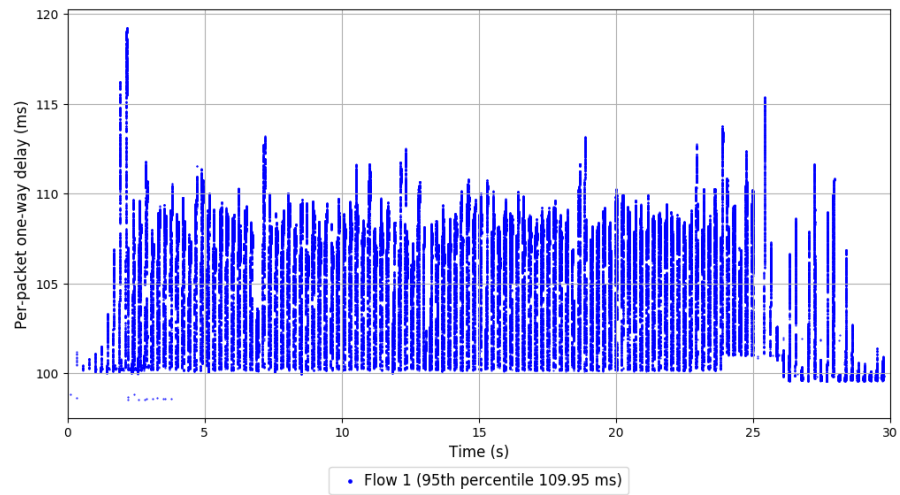
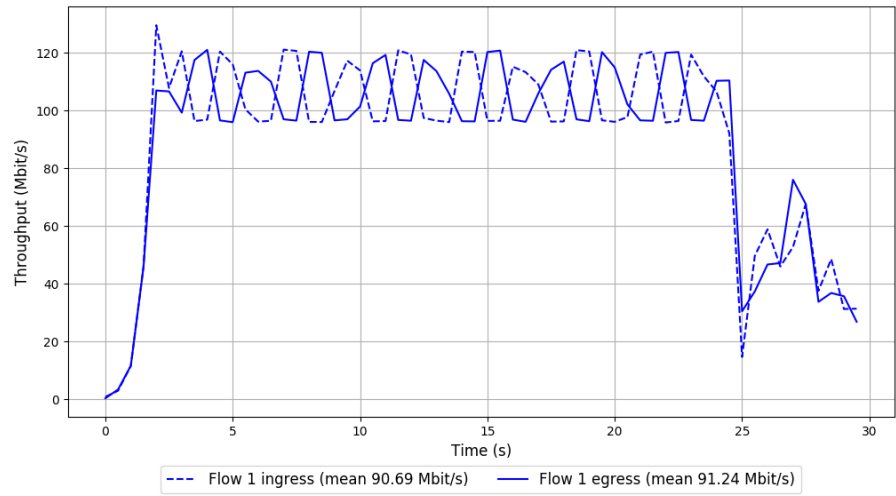
-- Flow 1:

Average throughput: 91.24 Mbit/s

95th percentile per-packet one-way delay: 109.950 ms

Loss rate: 0.29%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-04-10 06:15:53

End at: 2018-04-10 06:16:23

Below is generated by plot.py at 2018-04-10 10:04:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.12 Mbit/s

95th percentile per-packet one-way delay: 103.145 ms

Loss rate: 0.71%

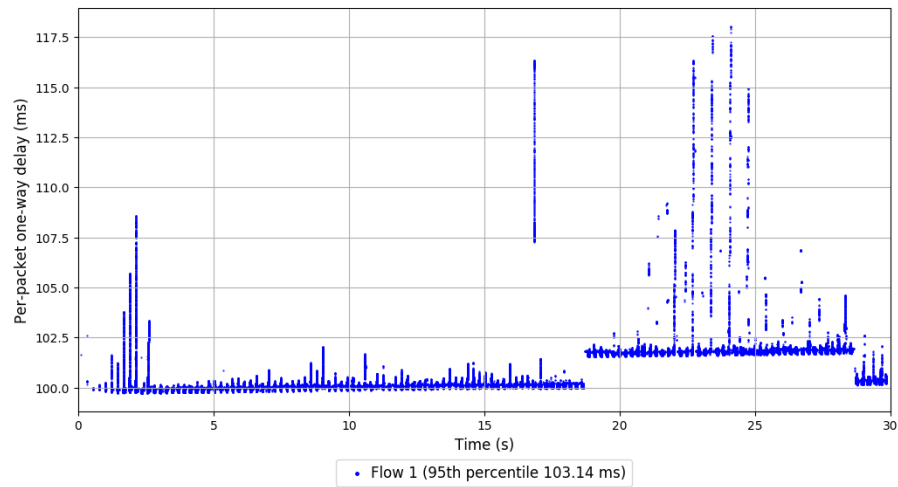
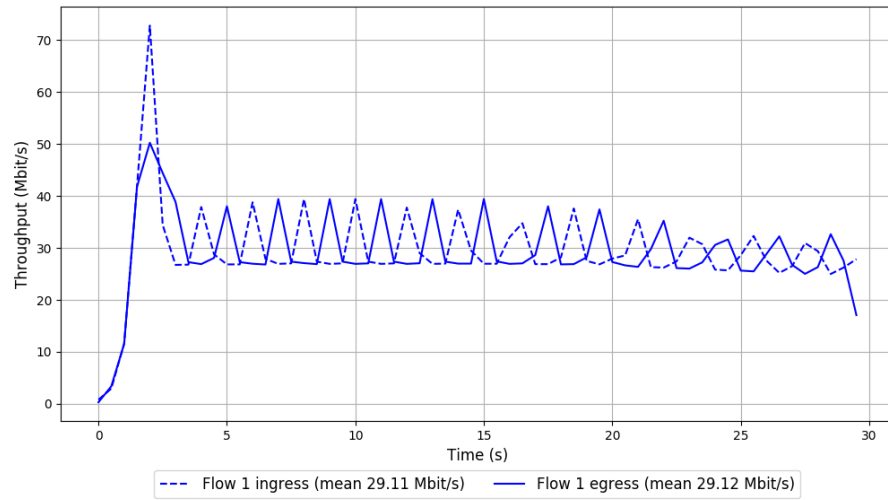
-- Flow 1:

Average throughput: 29.12 Mbit/s

95th percentile per-packet one-way delay: 103.145 ms

Loss rate: 0.71%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-04-10 06:31:07

End at: 2018-04-10 06:31:37

Below is generated by plot.py at 2018-04-10 10:04:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.53 Mbit/s

95th percentile per-packet one-way delay: 115.362 ms

Loss rate: 0.77%

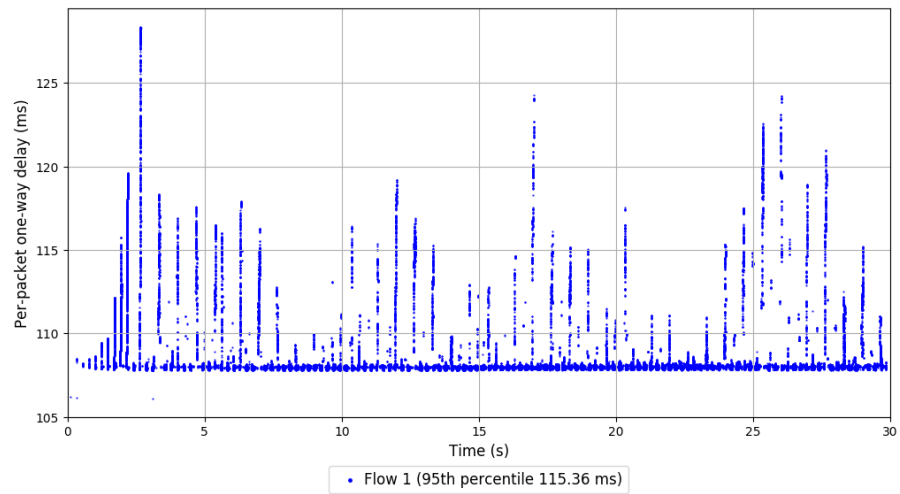
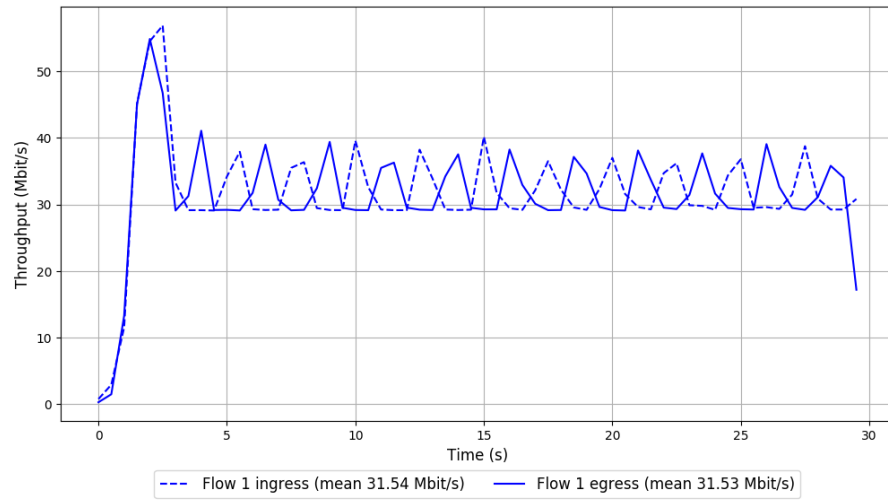
-- Flow 1:

Average throughput: 31.53 Mbit/s

95th percentile per-packet one-way delay: 115.362 ms

Loss rate: 0.77%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-04-10 06:45:56

End at: 2018-04-10 06:46:26

Below is generated by plot.py at 2018-04-10 10:04:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.02 Mbit/s

95th percentile per-packet one-way delay: 107.345 ms

Loss rate: 0.74%

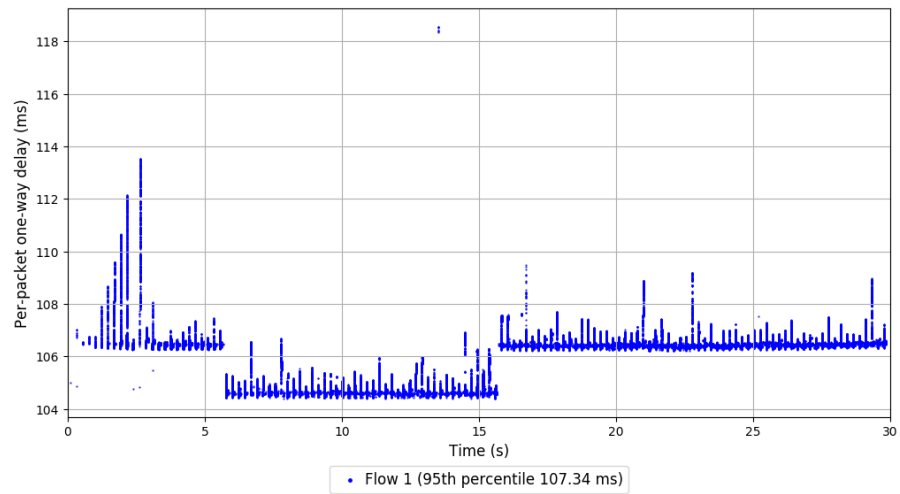
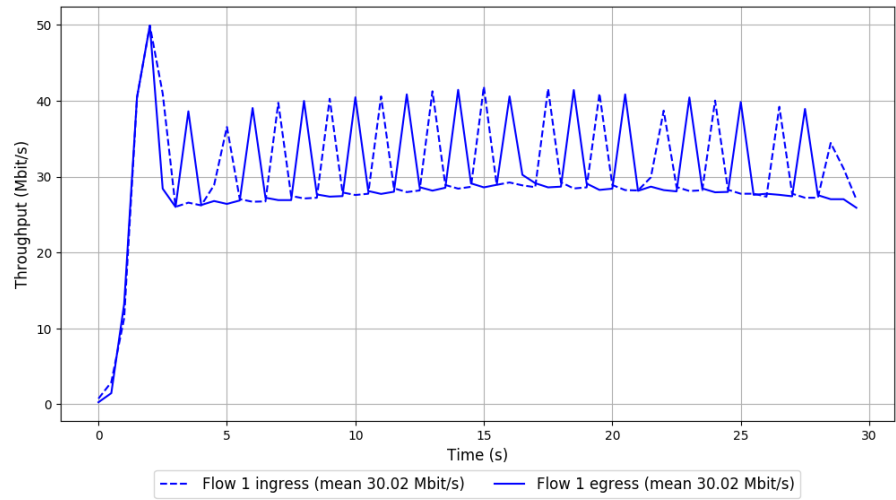
-- Flow 1:

Average throughput: 30.02 Mbit/s

95th percentile per-packet one-way delay: 107.345 ms

Loss rate: 0.74%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-04-10 07:00:49

End at: 2018-04-10 07:01:19

Below is generated by plot.py at 2018-04-10 10:04:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.65 Mbit/s

95th percentile per-packet one-way delay: 113.695 ms

Loss rate: 0.81%

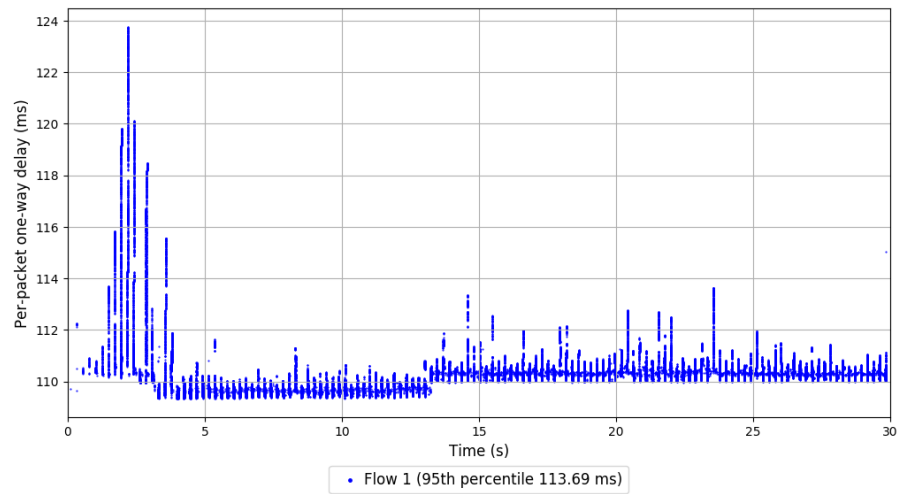
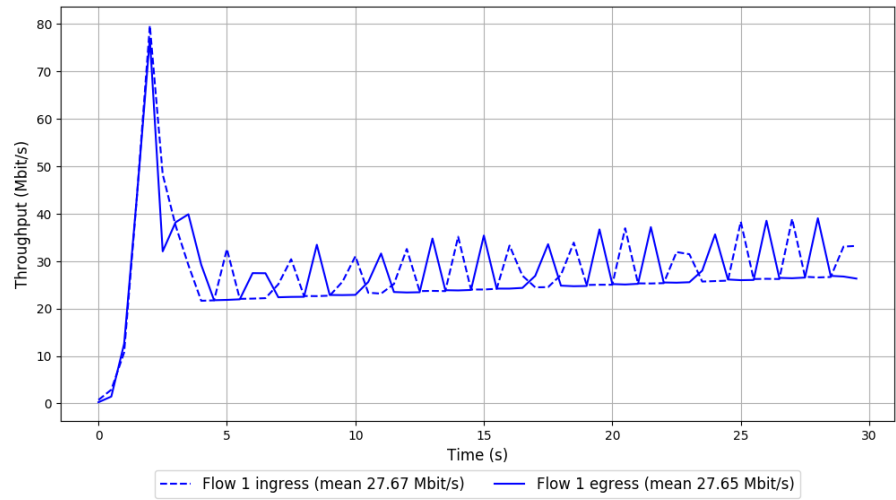
-- Flow 1:

Average throughput: 27.65 Mbit/s

95th percentile per-packet one-way delay: 113.695 ms

Loss rate: 0.81%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-04-10 04:37:14

End at: 2018-04-10 04:37:44

Below is generated by plot.py at 2018-04-10 10:05:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.90 Mbit/s

95th percentile per-packet one-way delay: 340.382 ms

Loss rate: 3.84%

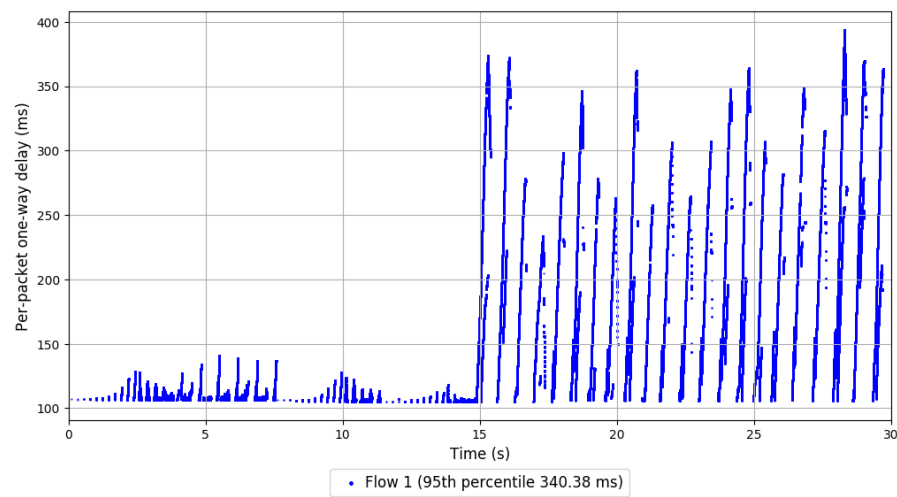
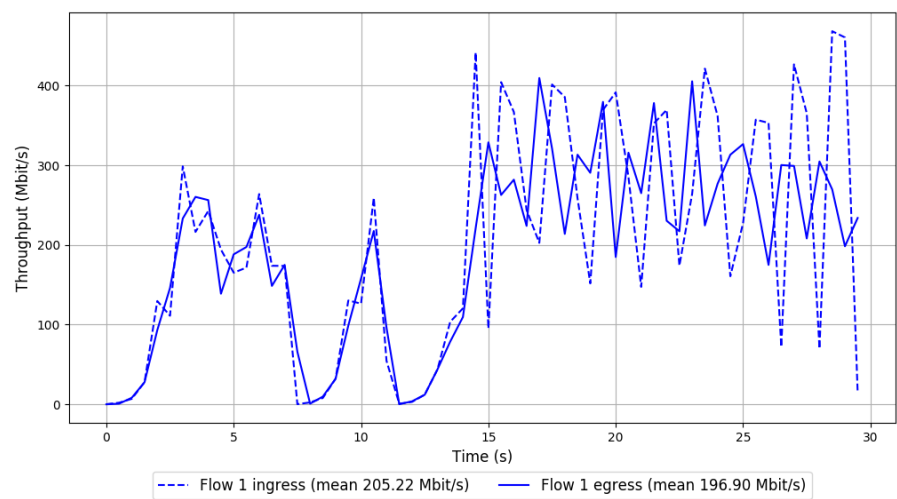
-- Flow 1:

Average throughput: 196.90 Mbit/s

95th percentile per-packet one-way delay: 340.382 ms

Loss rate: 3.84%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-04-10 04:52:25

End at: 2018-04-10 04:52:55

Below is generated by plot.py at 2018-04-10 10:05:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 144.80 Mbit/s

95th percentile per-packet one-way delay: 130.141 ms

Loss rate: 1.08%

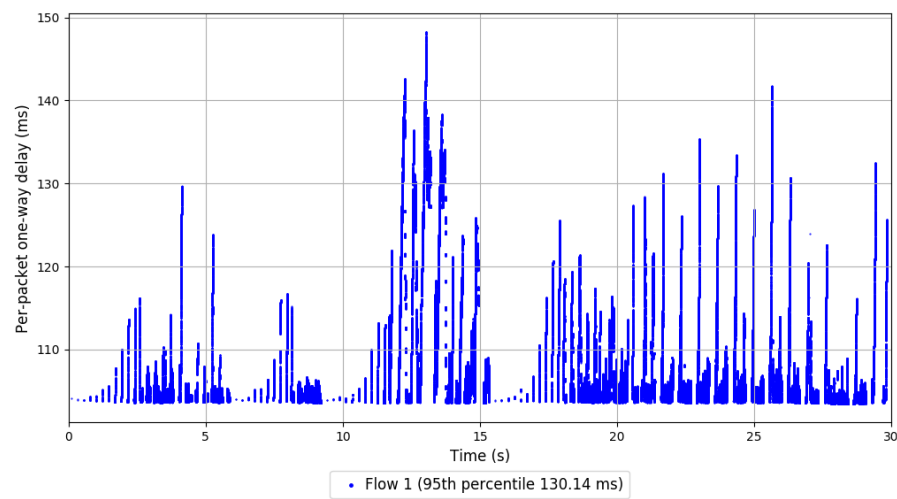
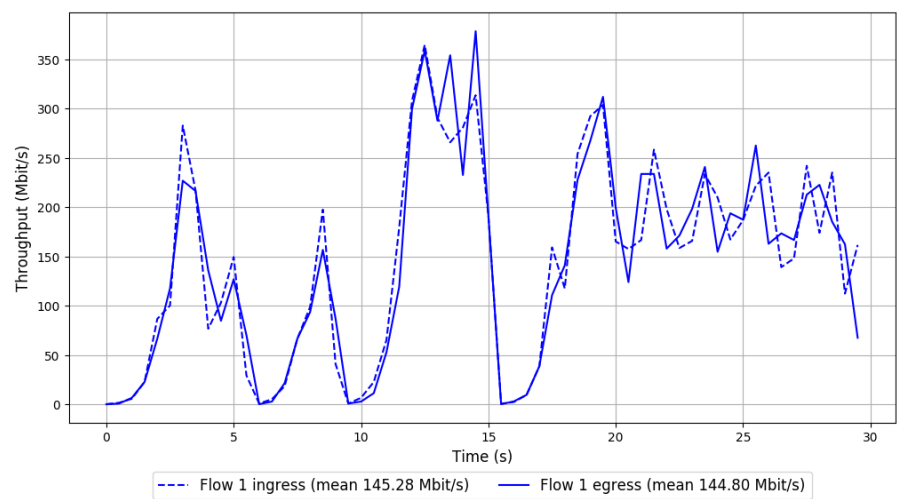
-- Flow 1:

Average throughput: 144.80 Mbit/s

95th percentile per-packet one-way delay: 130.141 ms

Loss rate: 1.08%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-04-10 05:07:32

End at: 2018-04-10 05:08:02

Below is generated by plot.py at 2018-04-10 10:05:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.69 Mbit/s

95th percentile per-packet one-way delay: 164.953 ms

Loss rate: 0.43%

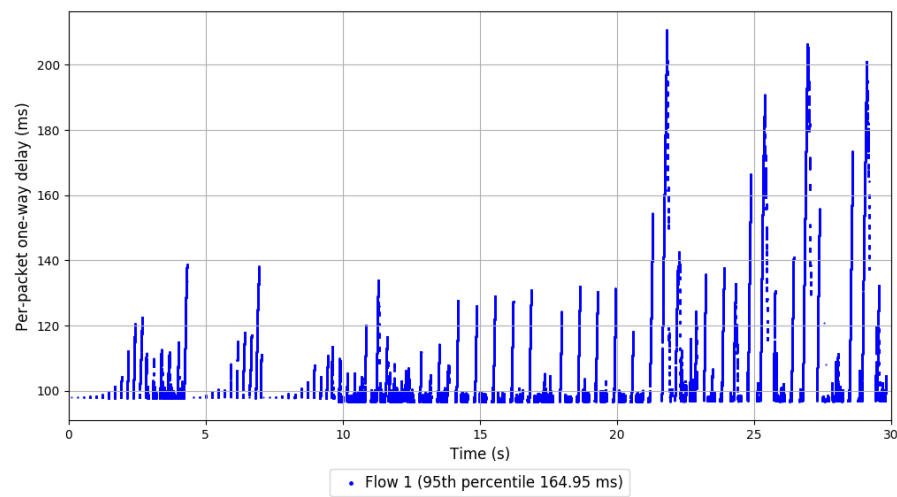
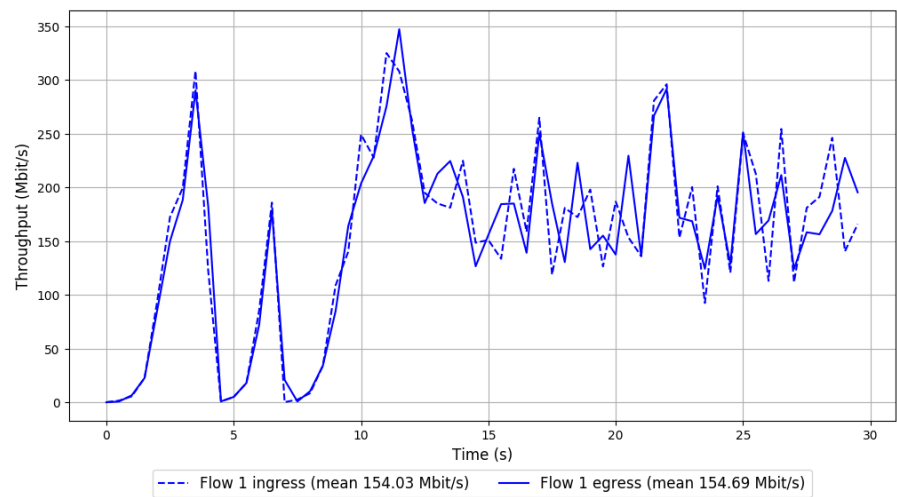
-- Flow 1:

Average throughput: 154.69 Mbit/s

95th percentile per-packet one-way delay: 164.953 ms

Loss rate: 0.43%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-04-10 05:22:38

End at: 2018-04-10 05:23:08

Below is generated by plot.py at 2018-04-10 10:05:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 129.30 Mbit/s

95th percentile per-packet one-way delay: 152.352 ms

Loss rate: 2.18%

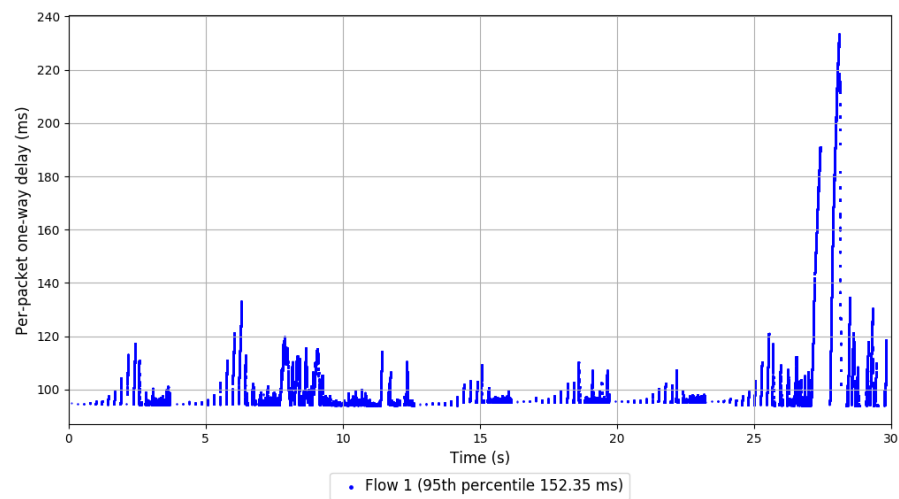
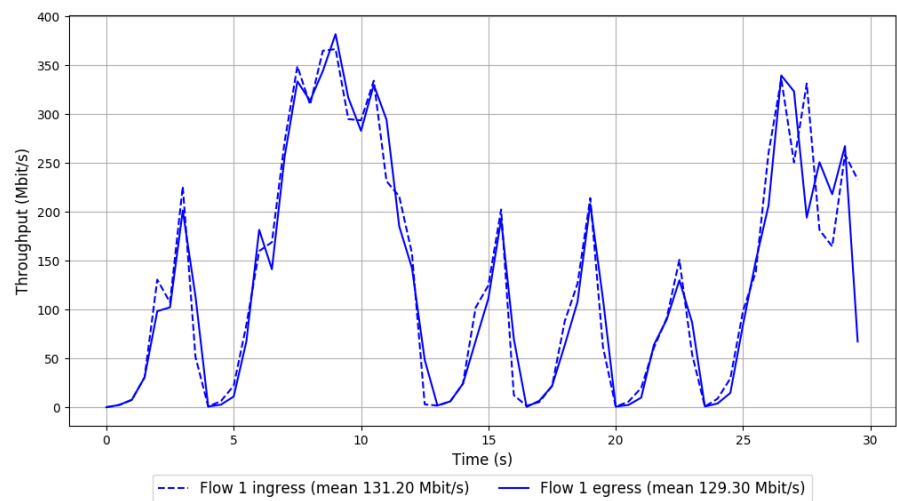
-- Flow 1:

Average throughput: 129.30 Mbit/s

95th percentile per-packet one-way delay: 152.352 ms

Loss rate: 2.18%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-04-10 05:37:38

End at: 2018-04-10 05:38:08

Below is generated by plot.py at 2018-04-10 10:05:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 165.80 Mbit/s

95th percentile per-packet one-way delay: 109.751 ms

Loss rate: 1.59%

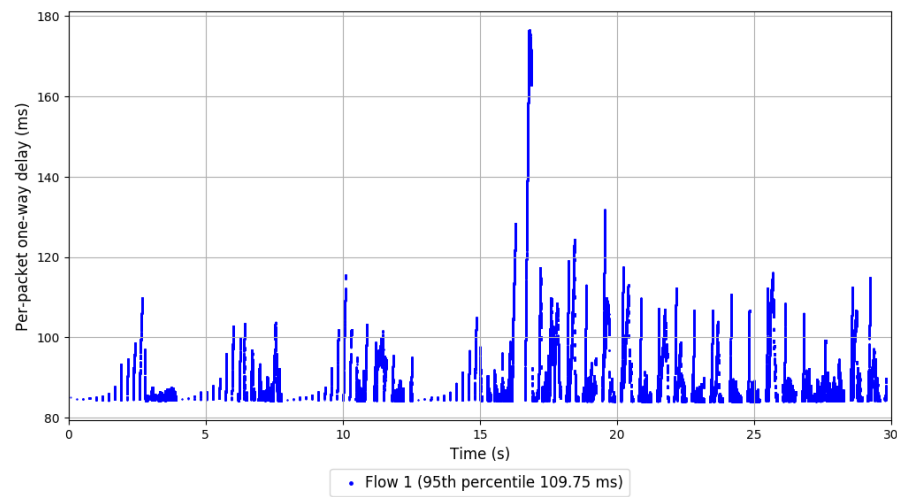
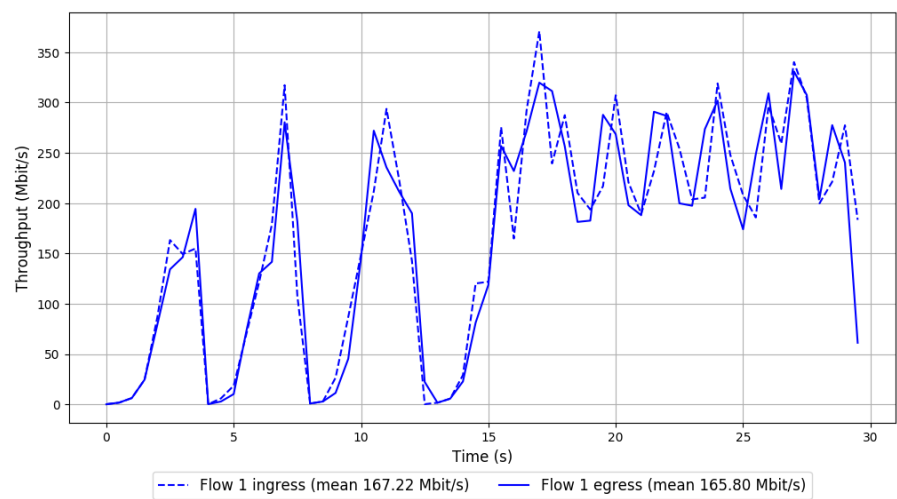
-- Flow 1:

Average throughput: 165.80 Mbit/s

95th percentile per-packet one-way delay: 109.751 ms

Loss rate: 1.59%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-04-10 05:52:51

End at: 2018-04-10 05:53:21

Below is generated by plot.py at 2018-04-10 10:05:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.37 Mbit/s

95th percentile per-packet one-way delay: 288.519 ms

Loss rate: 1.55%

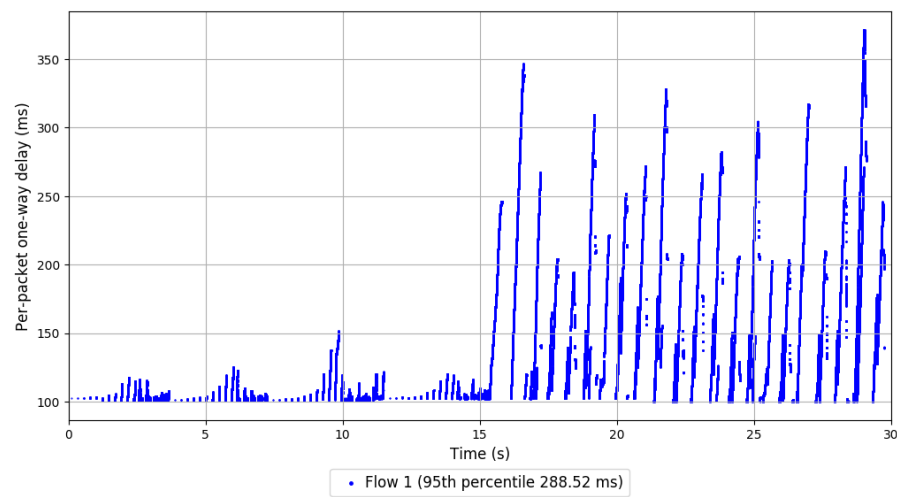
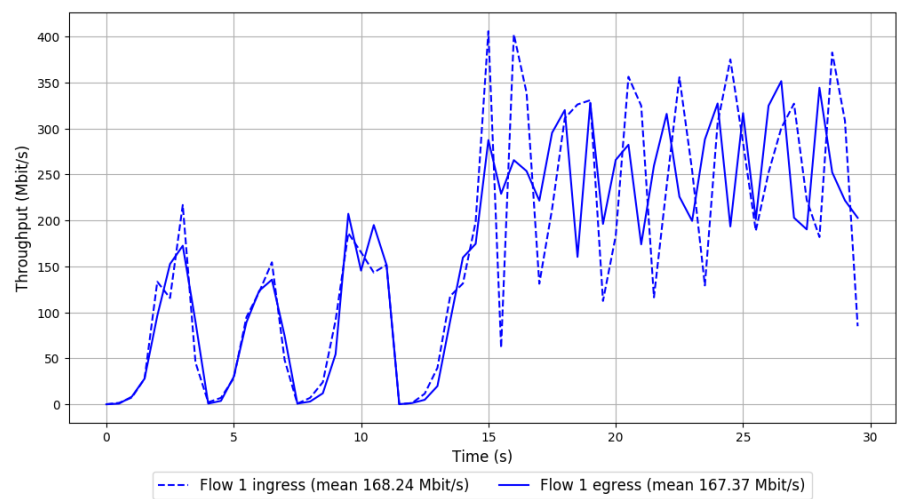
-- Flow 1:

Average throughput: 167.37 Mbit/s

95th percentile per-packet one-way delay: 288.519 ms

Loss rate: 1.55%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-04-10 06:08:09

End at: 2018-04-10 06:08:39

Below is generated by plot.py at 2018-04-10 10:06:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.50 Mbit/s

95th percentile per-packet one-way delay: 143.577 ms

Loss rate: 0.21%

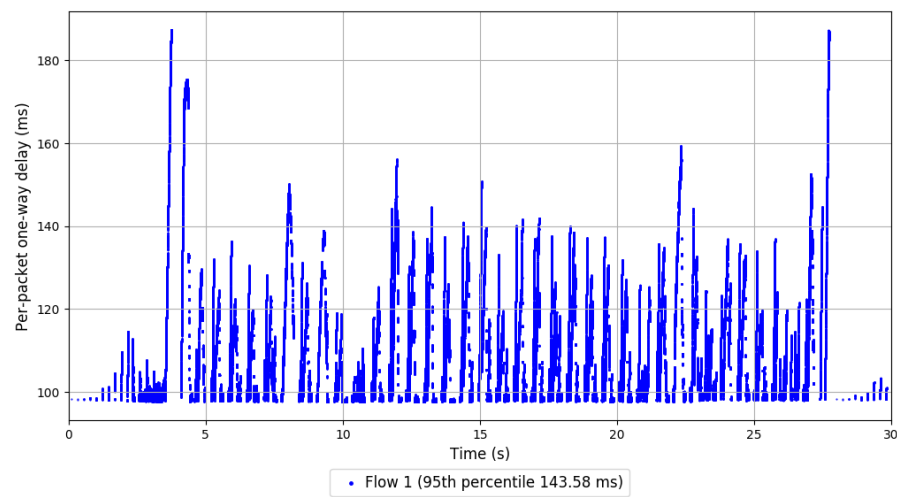
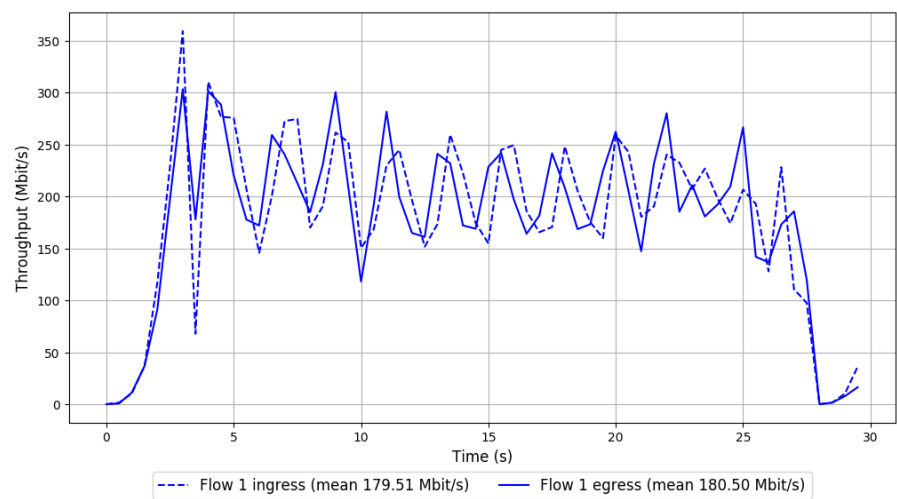
-- Flow 1:

Average throughput: 180.50 Mbit/s

95th percentile per-packet one-way delay: 143.577 ms

Loss rate: 0.21%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-04-10 06:23:35

End at: 2018-04-10 06:24:05

Below is generated by plot.py at 2018-04-10 10:06:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 118.13 Mbit/s

95th percentile per-packet one-way delay: 112.303 ms

Loss rate: 0.00%

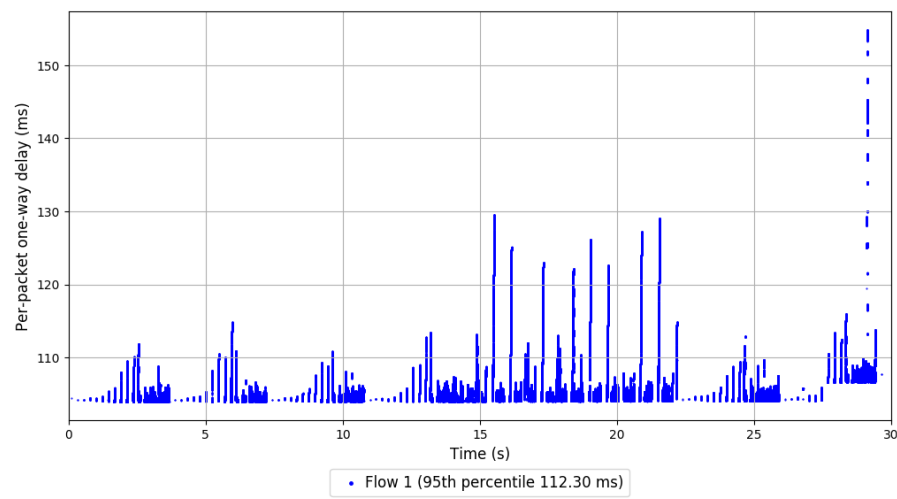
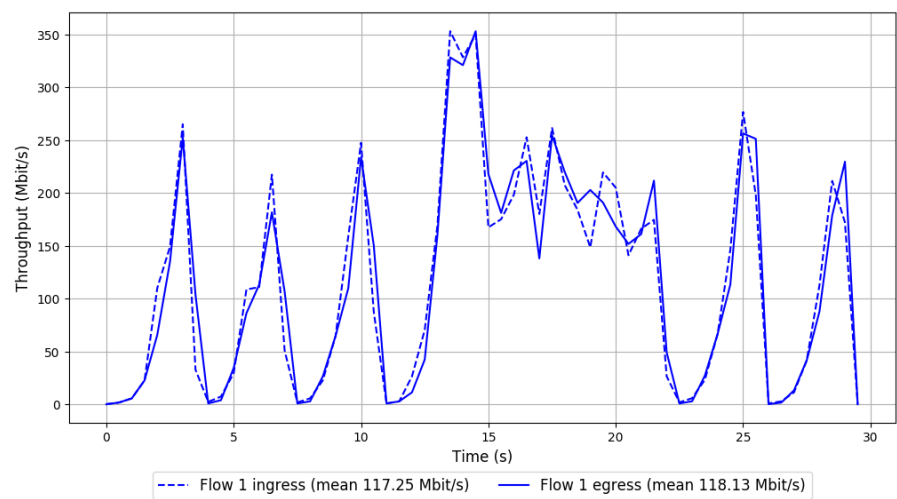
-- Flow 1:

Average throughput: 118.13 Mbit/s

95th percentile per-packet one-way delay: 112.303 ms

Loss rate: 0.00%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-04-10 06:38:40

End at: 2018-04-10 06:39:10

Below is generated by plot.py at 2018-04-10 10:06:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.66 Mbit/s

95th percentile per-packet one-way delay: 110.537 ms

Loss rate: 0.02%

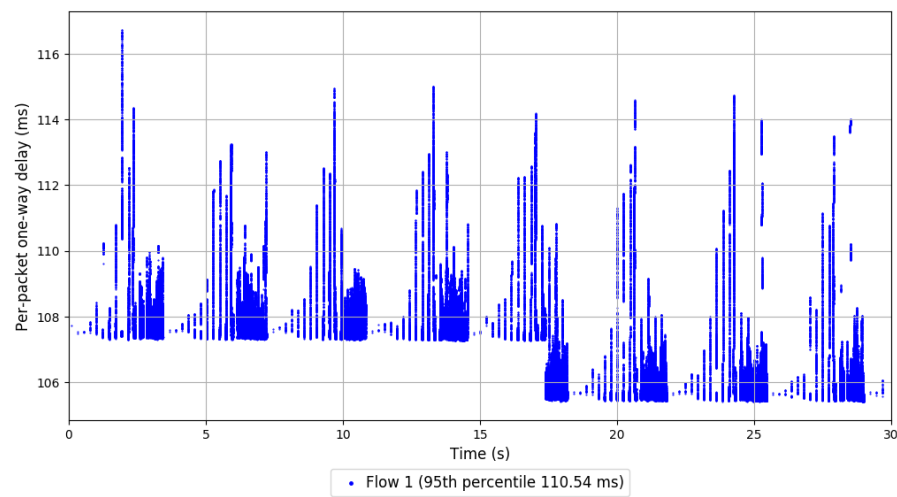
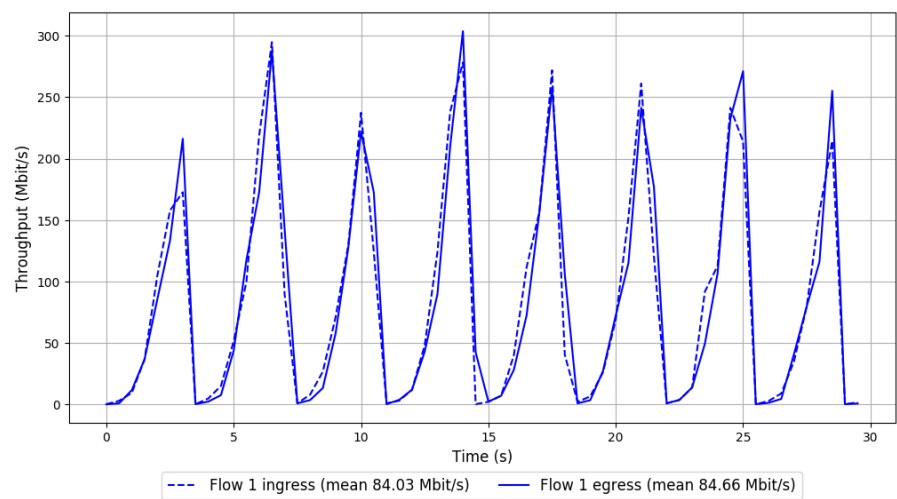
-- Flow 1:

Average throughput: 84.66 Mbit/s

95th percentile per-packet one-way delay: 110.537 ms

Loss rate: 0.02%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-04-10 06:53:19

End at: 2018-04-10 06:53:49

Below is generated by plot.py at 2018-04-10 10:07:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.84 Mbit/s

95th percentile per-packet one-way delay: 246.154 ms

Loss rate: 1.31%

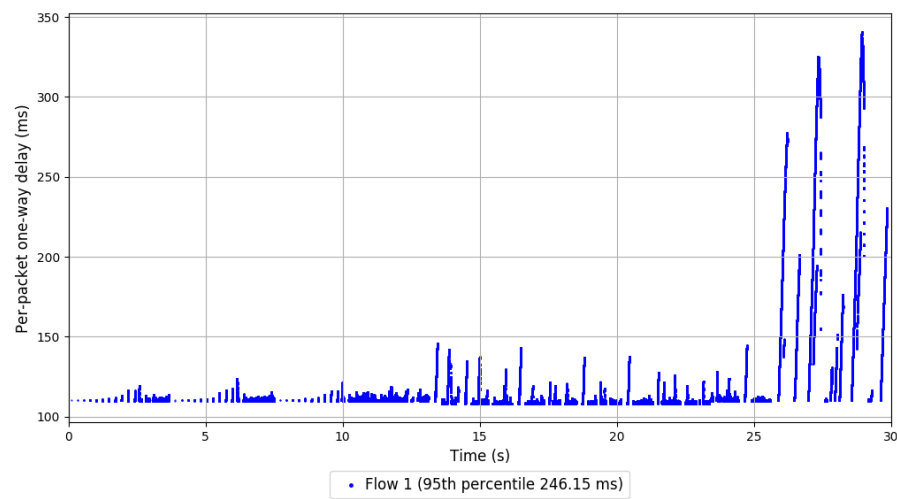
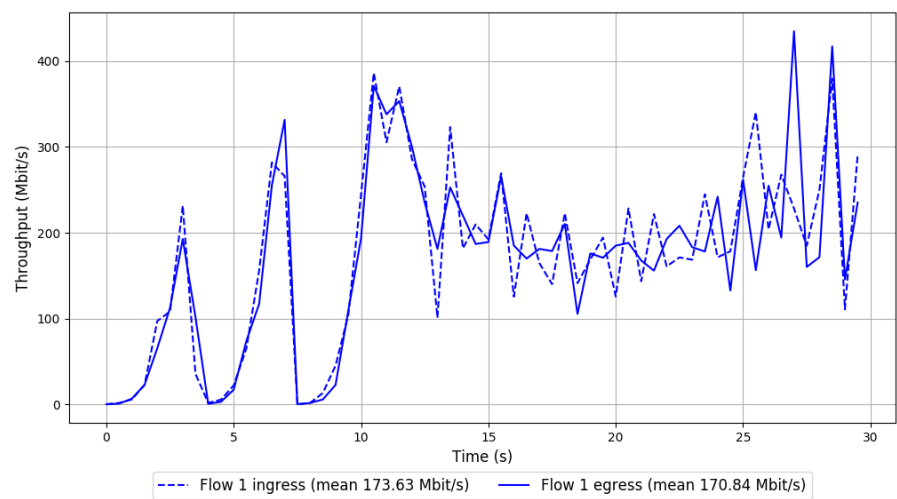
-- Flow 1:

Average throughput: 170.84 Mbit/s

95th percentile per-packet one-way delay: 246.154 ms

Loss rate: 1.31%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-04-10 04:36:09

End at: 2018-04-10 04:36:39

Below is generated by plot.py at 2018-04-10 10:12:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 283.25 Mbit/s

95th percentile per-packet one-way delay: 319.603 ms

Loss rate: 30.69%

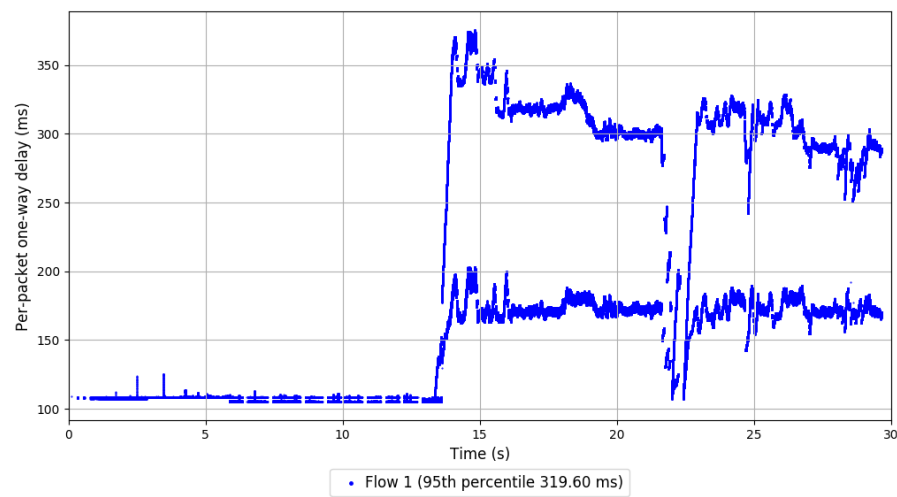
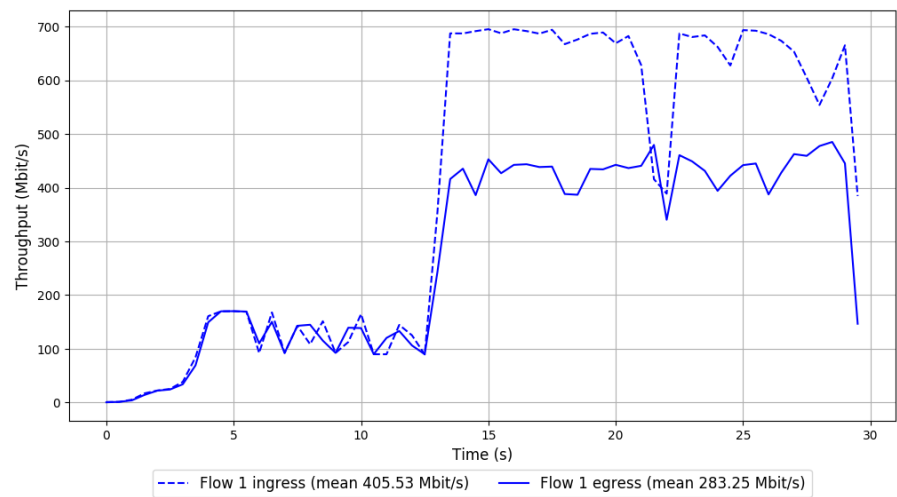
-- Flow 1:

Average throughput: 283.25 Mbit/s

95th percentile per-packet one-way delay: 319.603 ms

Loss rate: 30.69%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-04-10 04:51:37

End at: 2018-04-10 04:52:07

Below is generated by plot.py at 2018-04-10 10:12:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.48 Mbit/s

95th percentile per-packet one-way delay: 104.076 ms

Loss rate: 1.04%

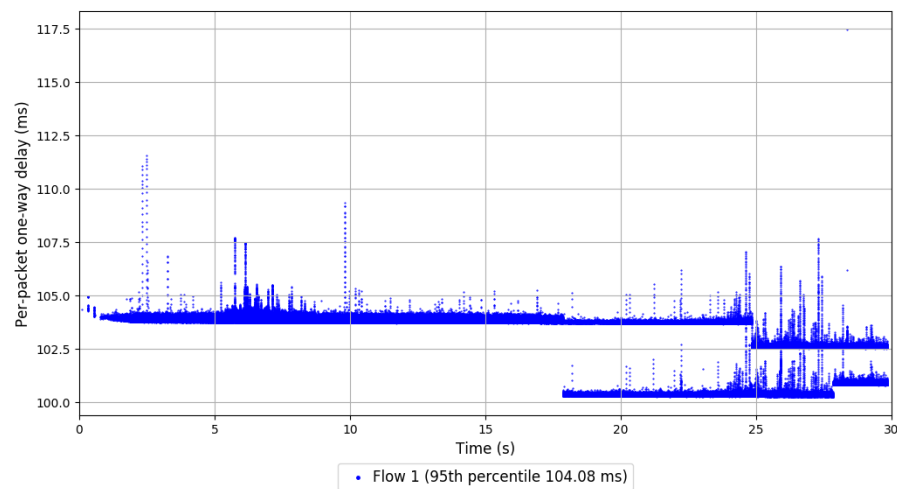
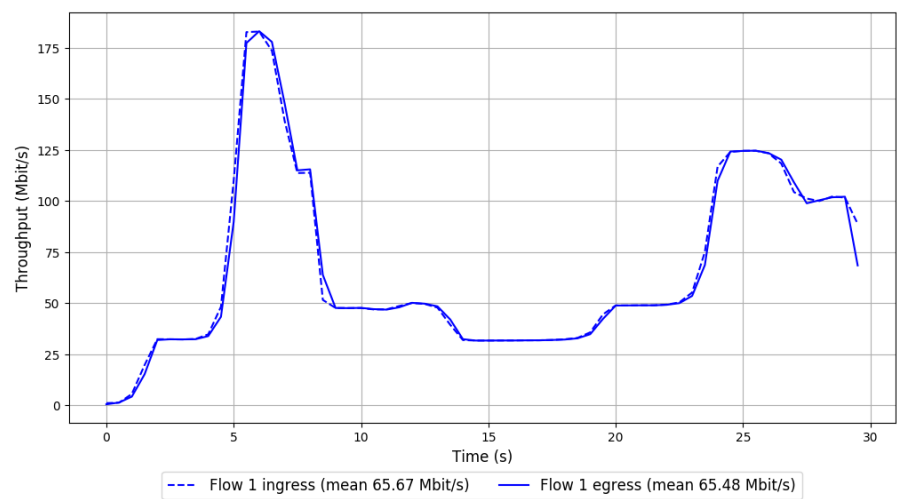
-- Flow 1:

Average throughput: 65.48 Mbit/s

95th percentile per-packet one-way delay: 104.076 ms

Loss rate: 1.04%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-04-10 05:06:43

End at: 2018-04-10 05:07:13

Below is generated by plot.py at 2018-04-10 10:12:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.17 Mbit/s

95th percentile per-packet one-way delay: 97.180 ms

Loss rate: 0.38%

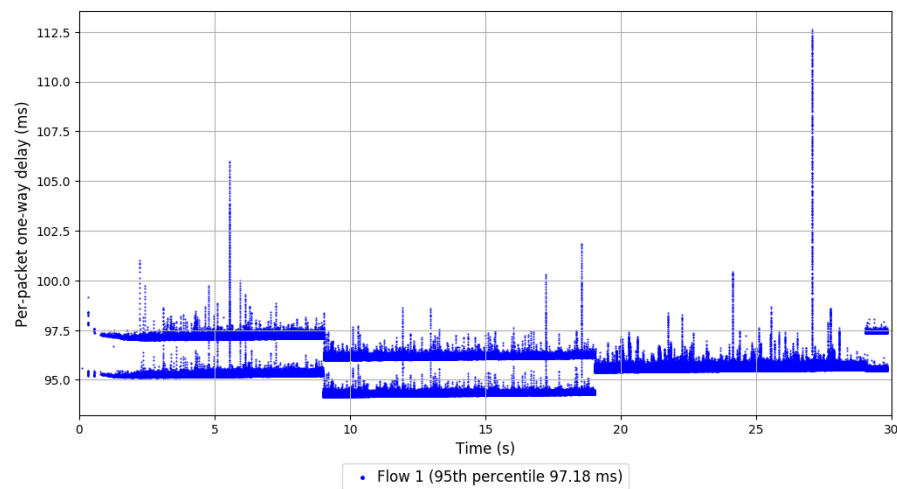
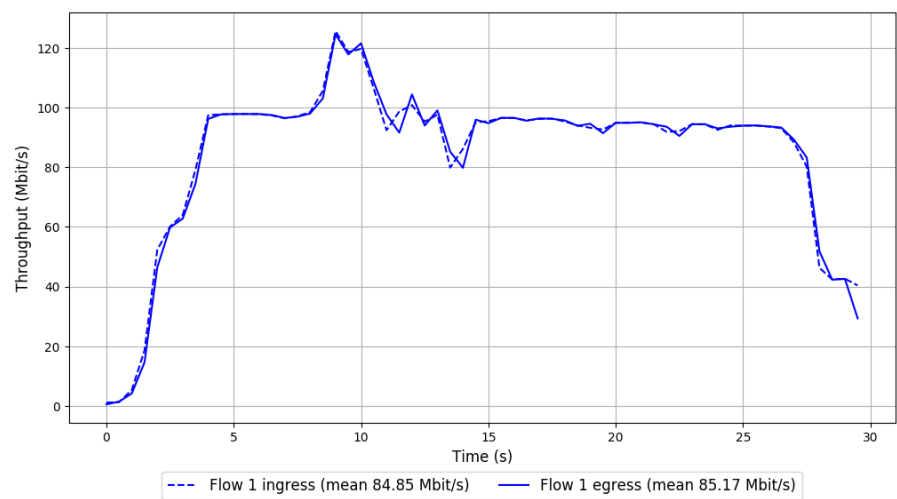
-- Flow 1:

Average throughput: 85.17 Mbit/s

95th percentile per-packet one-way delay: 97.180 ms

Loss rate: 0.38%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-04-10 05:21:49

End at: 2018-04-10 05:22:19

Below is generated by plot.py at 2018-04-10 10:12:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.17 Mbit/s

95th percentile per-packet one-way delay: 94.813 ms

Loss rate: 0.69%

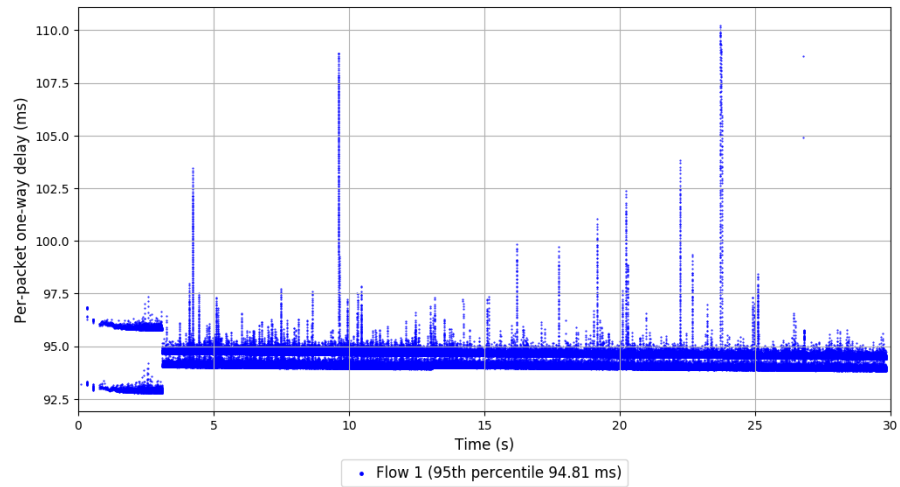
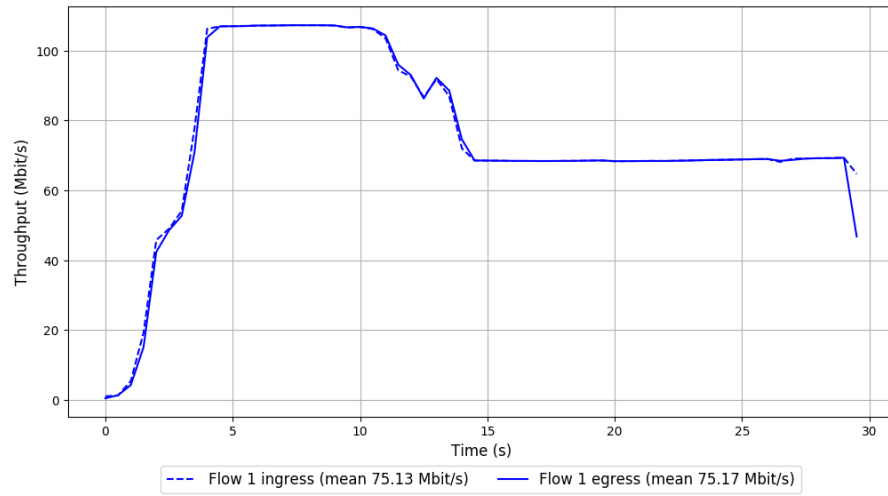
-- Flow 1:

Average throughput: 75.17 Mbit/s

95th percentile per-packet one-way delay: 94.813 ms

Loss rate: 0.69%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-04-10 05:36:51

End at: 2018-04-10 05:37:21

Below is generated by plot.py at 2018-04-10 10:12:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.41 Mbit/s

95th percentile per-packet one-way delay: 84.942 ms

Loss rate: 0.23%

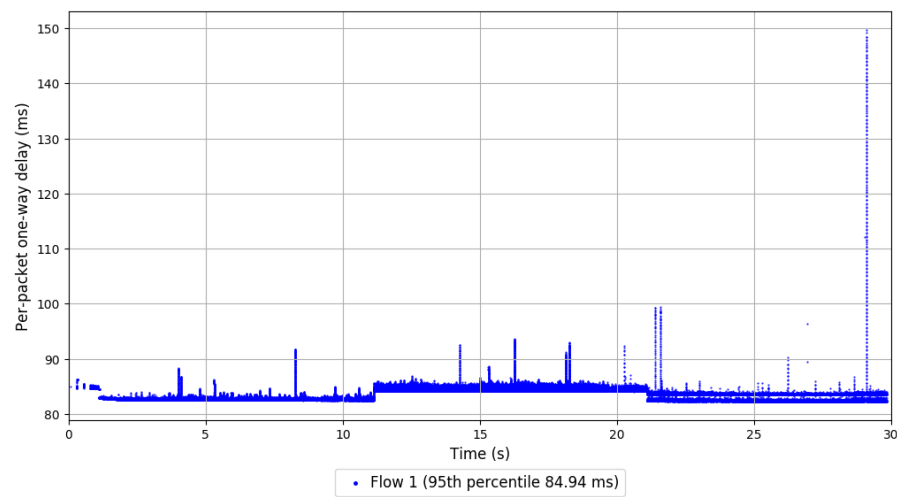
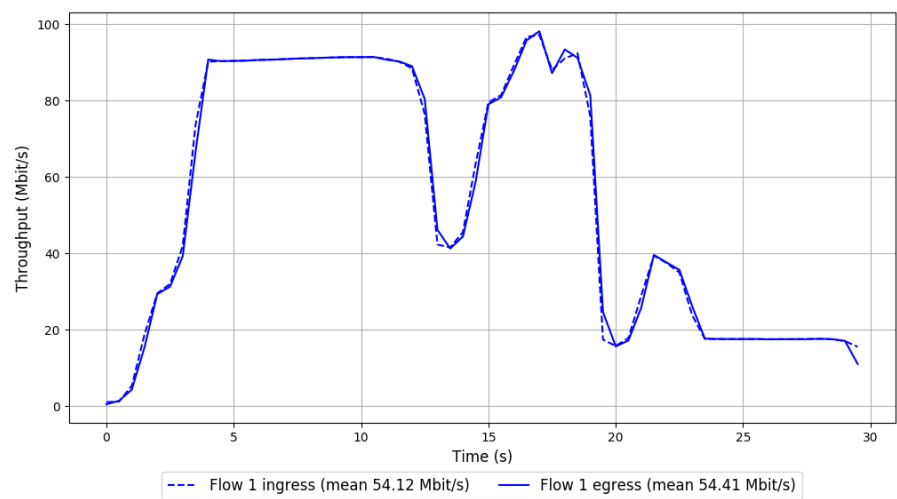
-- Flow 1:

Average throughput: 54.41 Mbit/s

95th percentile per-packet one-way delay: 84.942 ms

Loss rate: 0.23%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-04-10 05:52:04

End at: 2018-04-10 05:52:34

Below is generated by plot.py at 2018-04-10 10:12:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.79 Mbit/s

95th percentile per-packet one-way delay: 102.116 ms

Loss rate: 0.20%

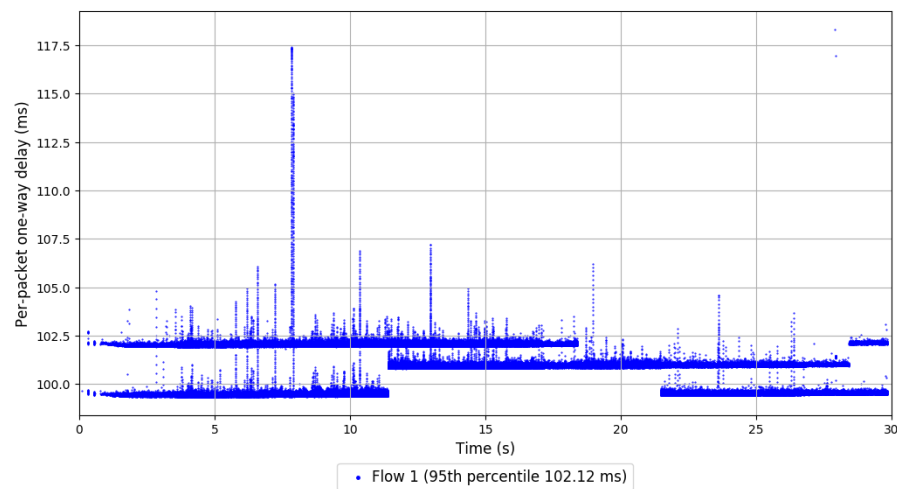
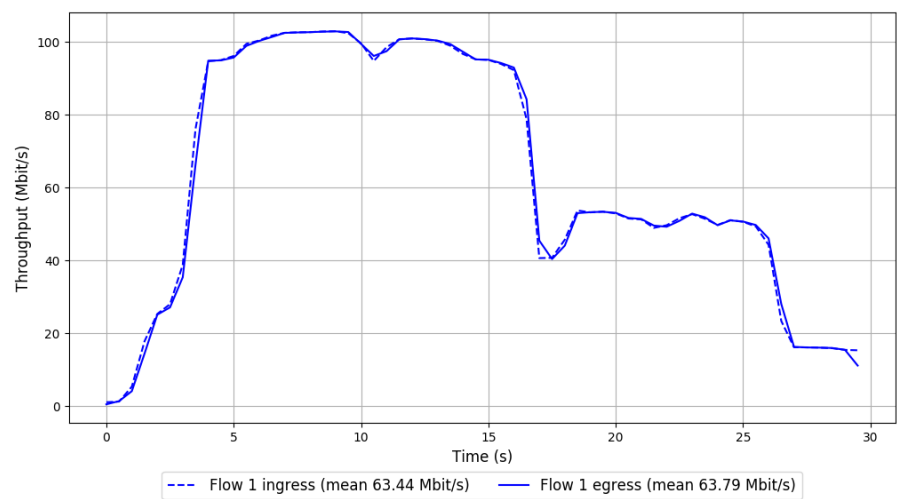
-- Flow 1:

Average throughput: 63.79 Mbit/s

95th percentile per-packet one-way delay: 102.116 ms

Loss rate: 0.20%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-04-10 06:07:19

End at: 2018-04-10 06:07:49

Below is generated by plot.py at 2018-04-10 10:12:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.51 Mbit/s

95th percentile per-packet one-way delay: 99.784 ms

Loss rate: 0.49%

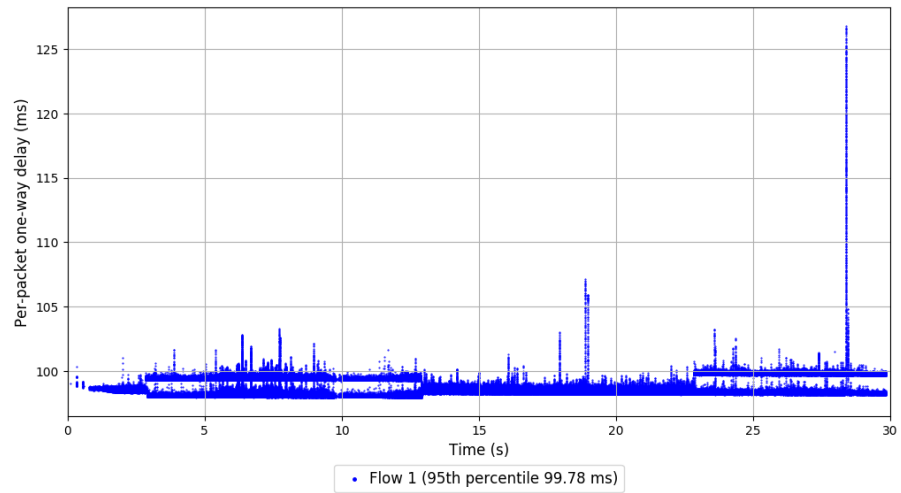
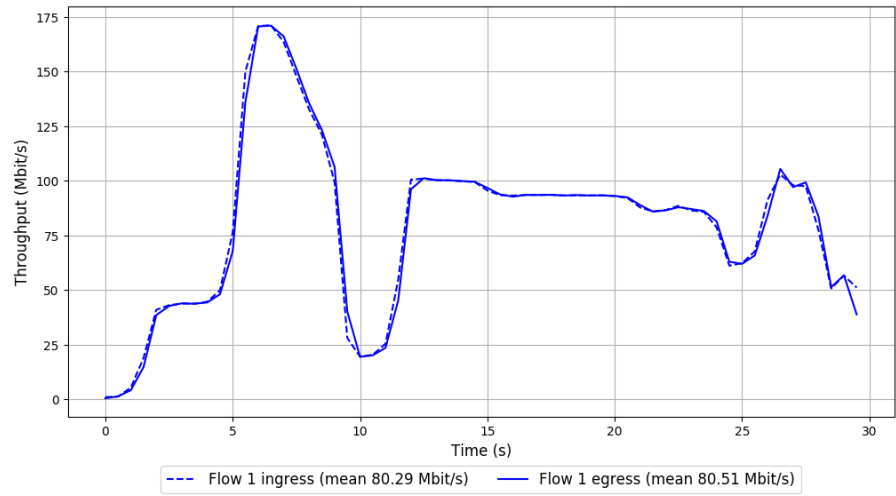
-- Flow 1:

Average throughput: 80.51 Mbit/s

95th percentile per-packet one-way delay: 99.784 ms

Loss rate: 0.49%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-04-10 06:22:50

End at: 2018-04-10 06:23:20

Below is generated by plot.py at 2018-04-10 10:12:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.58 Mbit/s

95th percentile per-packet one-way delay: 106.906 ms

Loss rate: 0.34%

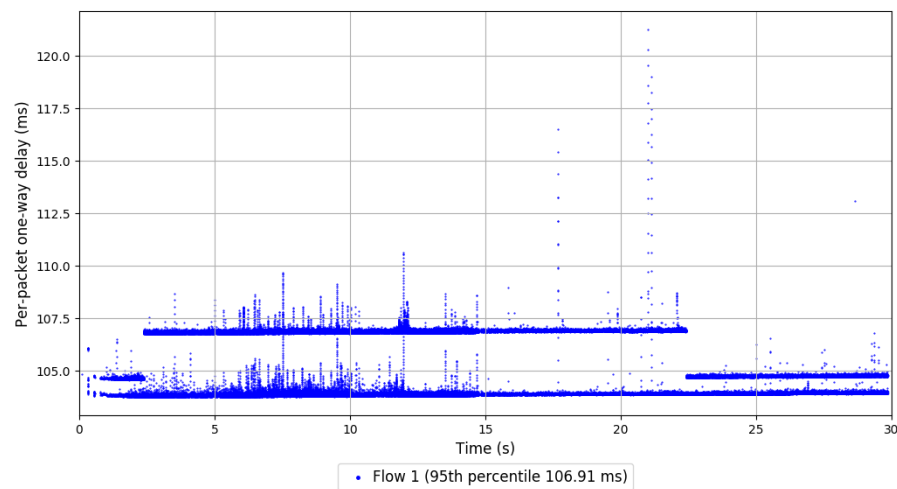
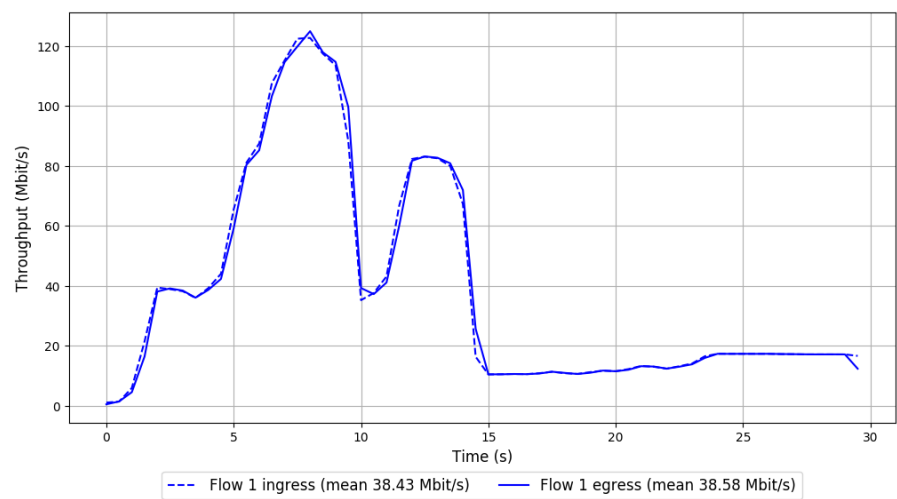
-- Flow 1:

Average throughput: 38.58 Mbit/s

95th percentile per-packet one-way delay: 106.906 ms

Loss rate: 0.34%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-04-10 06:37:50

End at: 2018-04-10 06:38:21

Below is generated by plot.py at 2018-04-10 10:12:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.67 Mbit/s

95th percentile per-packet one-way delay: 107.505 ms

Loss rate: 0.78%

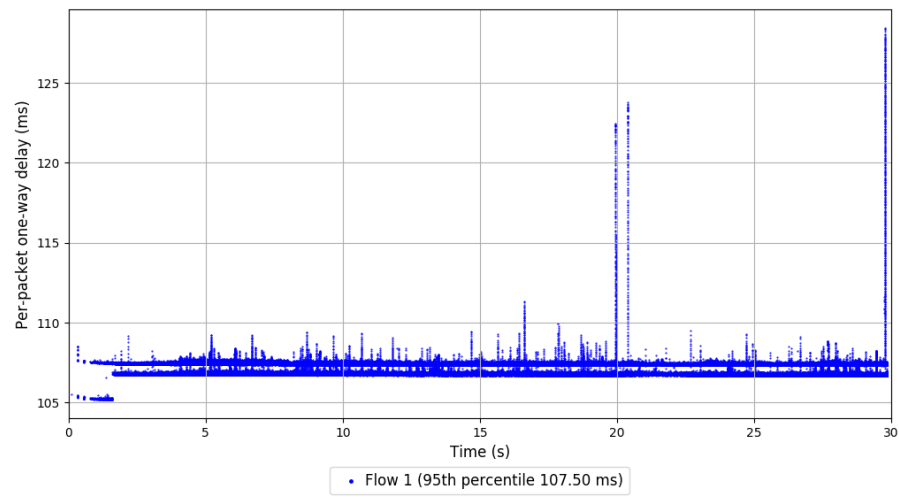
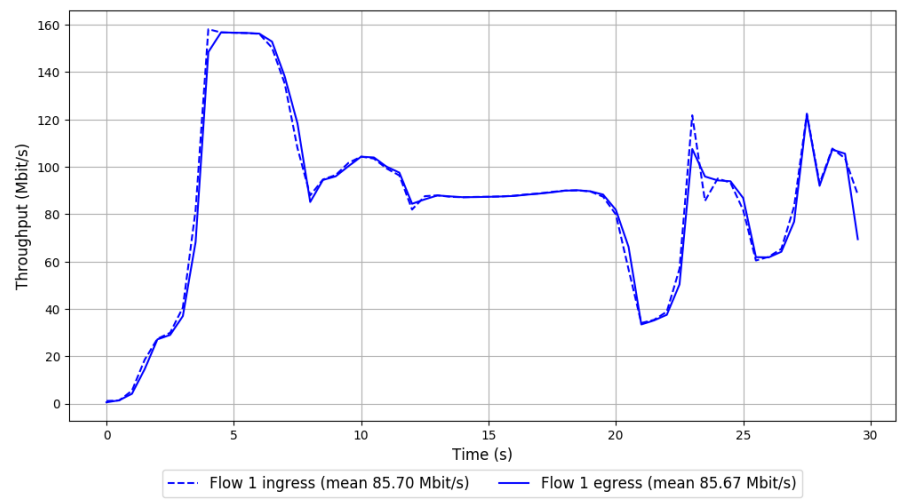
-- Flow 1:

Average throughput: 85.67 Mbit/s

95th percentile per-packet one-way delay: 107.505 ms

Loss rate: 0.78%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-04-10 06:52:31

End at: 2018-04-10 06:53:01

Below is generated by plot.py at 2018-04-10 10:12:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.29 Mbit/s

95th percentile per-packet one-way delay: 109.714 ms

Loss rate: 0.21%

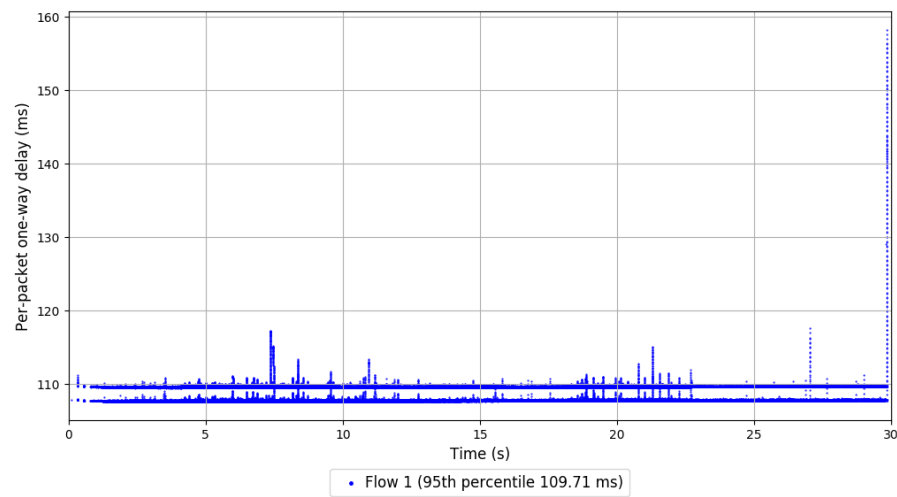
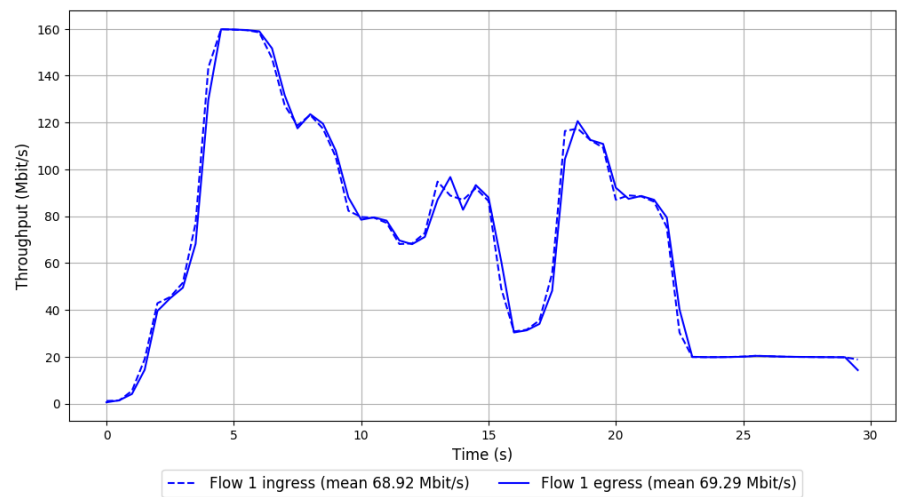
-- Flow 1:

Average throughput: 69.29 Mbit/s

95th percentile per-packet one-way delay: 109.714 ms

Loss rate: 0.21%

Run 10: Report of Copa — Data Link

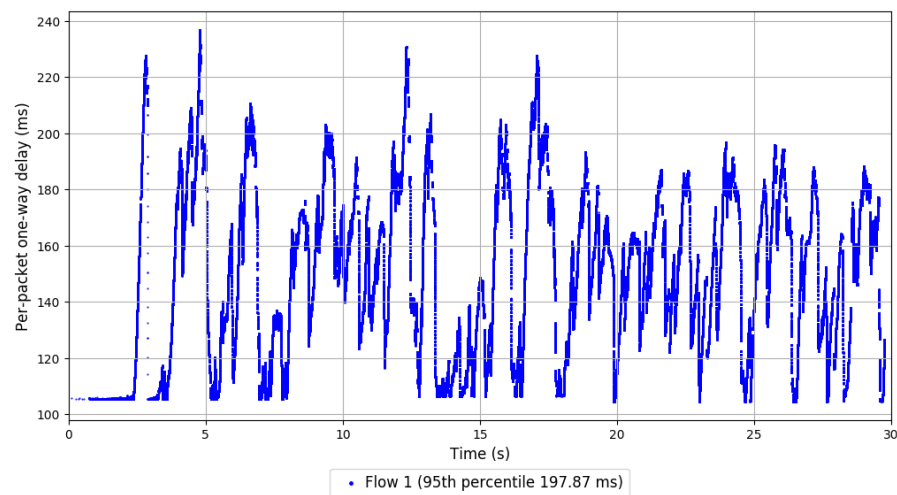
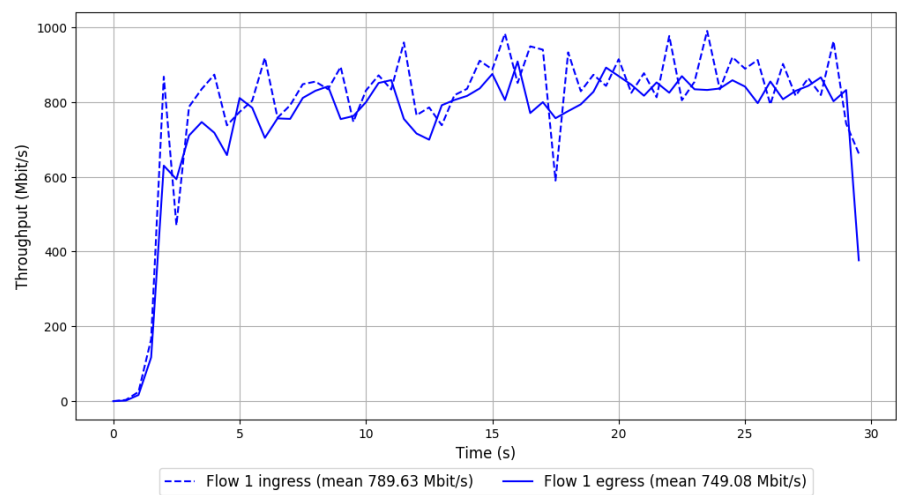


```
Run 1: Statistics of FillP

Start at: 2018-04-10 04:38:55
End at: 2018-04-10 04:39:25

# Below is generated by plot.py at 2018-04-10 10:20:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 749.08 Mbit/s
95th percentile per-packet one-way delay: 197.869 ms
Loss rate: 5.85%
-- Flow 1:
Average throughput: 749.08 Mbit/s
95th percentile per-packet one-way delay: 197.869 ms
Loss rate: 5.85%
```

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-04-10 04:54:01

End at: 2018-04-10 04:54:31

Below is generated by plot.py at 2018-04-10 10:20:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 794.05 Mbit/s

95th percentile per-packet one-way delay: 173.258 ms

Loss rate: 2.37%

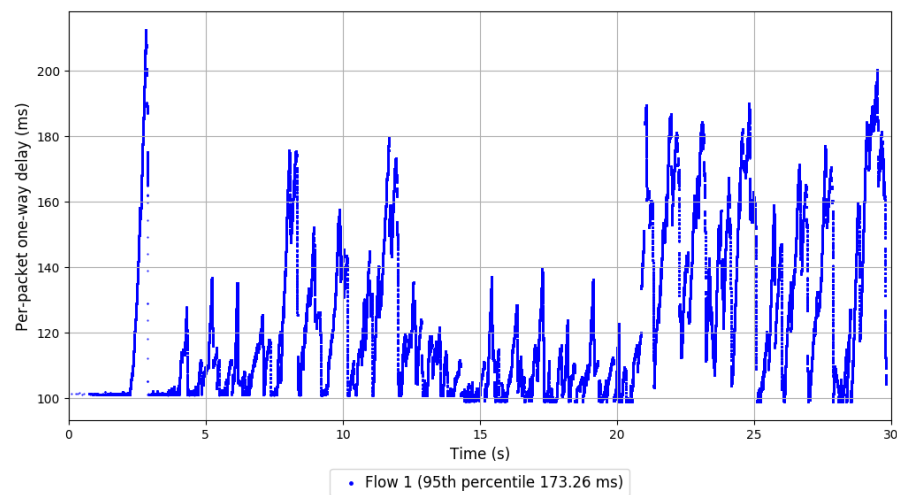
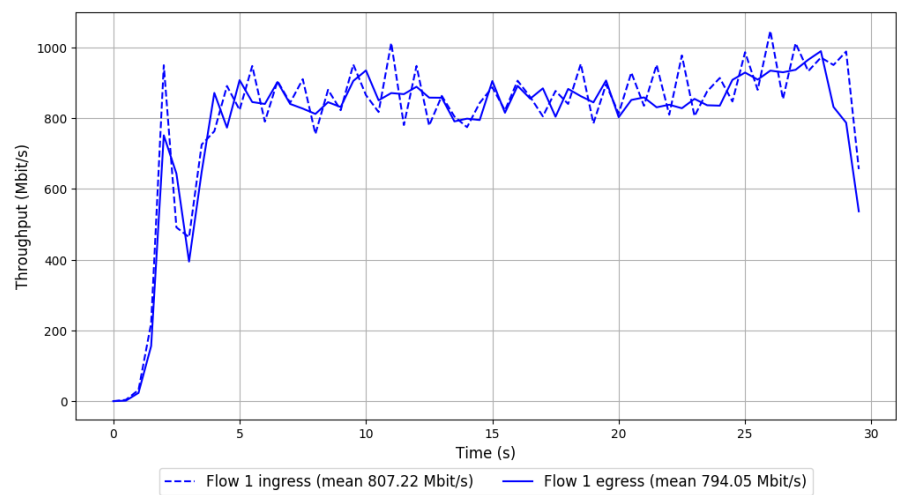
-- Flow 1:

Average throughput: 794.05 Mbit/s

95th percentile per-packet one-way delay: 173.258 ms

Loss rate: 2.37%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-04-10 05:09:09

End at: 2018-04-10 05:09:39

Below is generated by plot.py at 2018-04-10 10:20:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 757.46 Mbit/s

95th percentile per-packet one-way delay: 186.429 ms

Loss rate: 5.58%

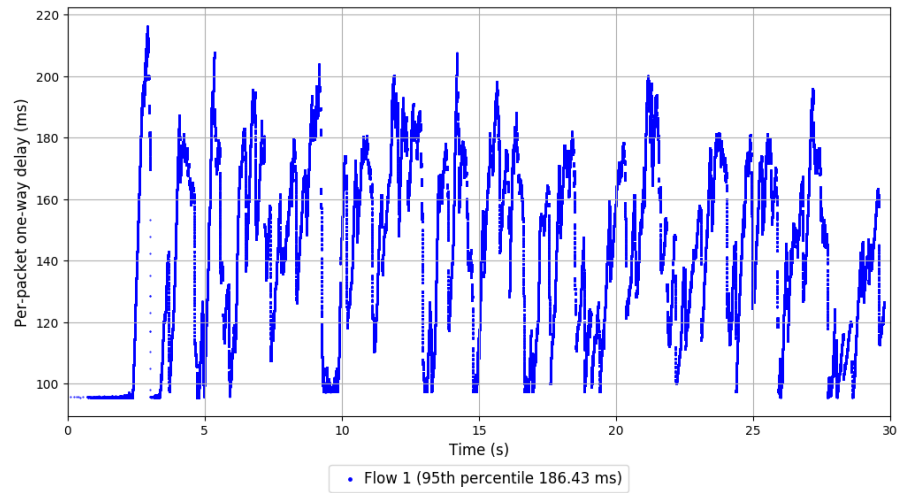
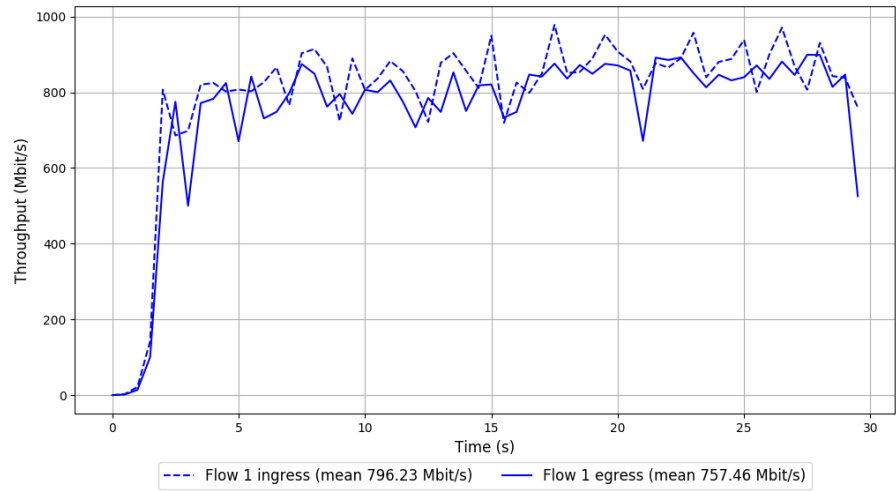
-- Flow 1:

Average throughput: 757.46 Mbit/s

95th percentile per-packet one-way delay: 186.429 ms

Loss rate: 5.58%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-04-10 05:24:14

End at: 2018-04-10 05:24:44

Below is generated by plot.py at 2018-04-10 10:21:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 785.40 Mbit/s

95th percentile per-packet one-way delay: 195.591 ms

Loss rate: 3.70%

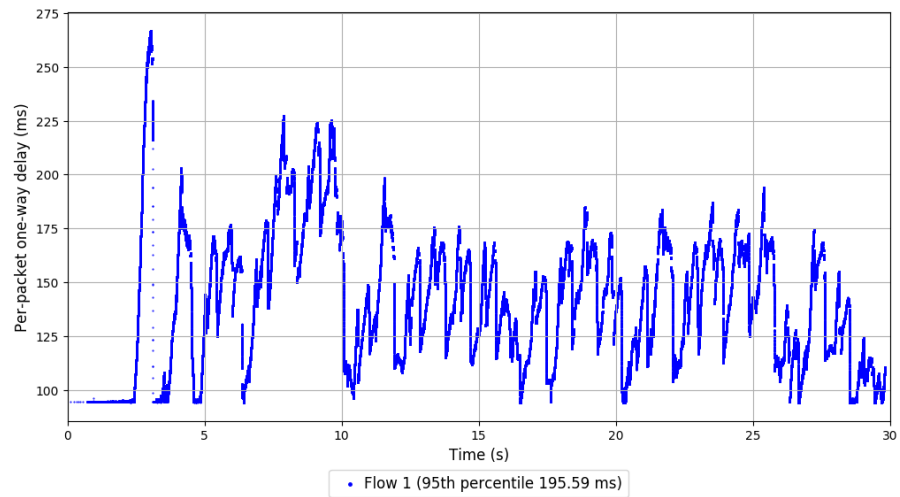
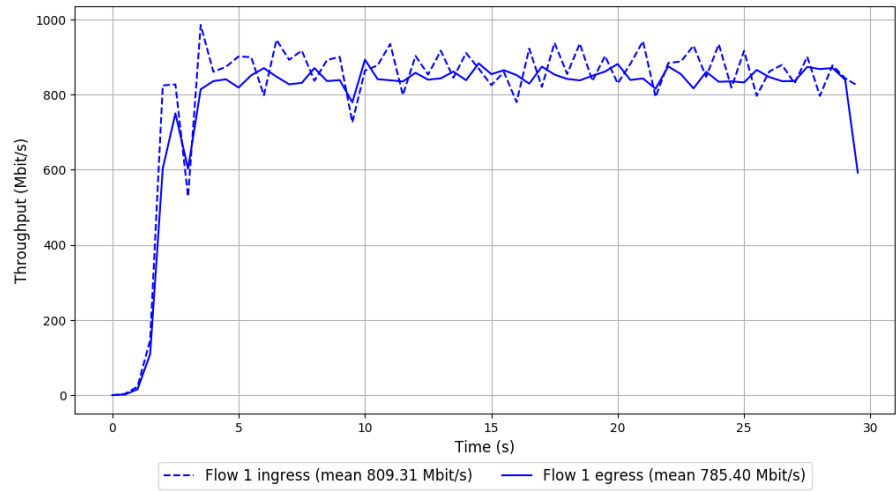
-- Flow 1:

Average throughput: 785.40 Mbit/s

95th percentile per-packet one-way delay: 195.591 ms

Loss rate: 3.70%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-04-10 05:39:14

End at: 2018-04-10 05:39:44

Below is generated by plot.py at 2018-04-10 10:21:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 808.07 Mbit/s

95th percentile per-packet one-way delay: 280.899 ms

Loss rate: 4.63%

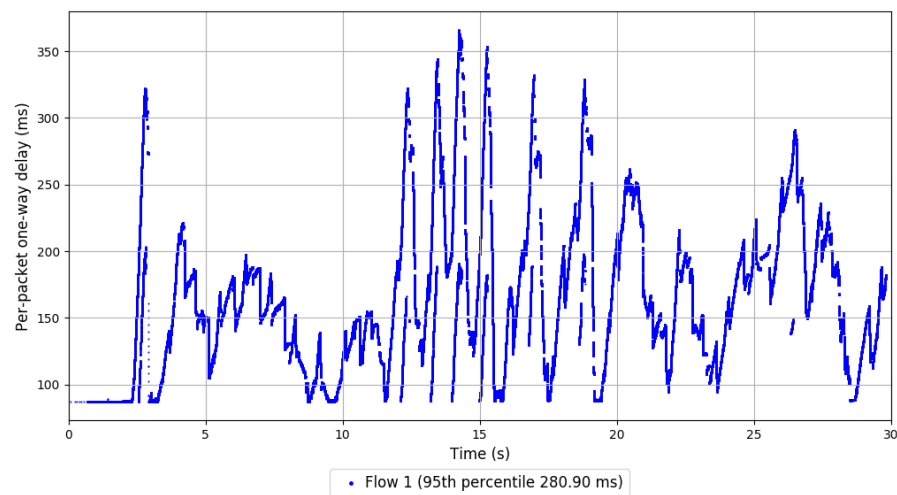
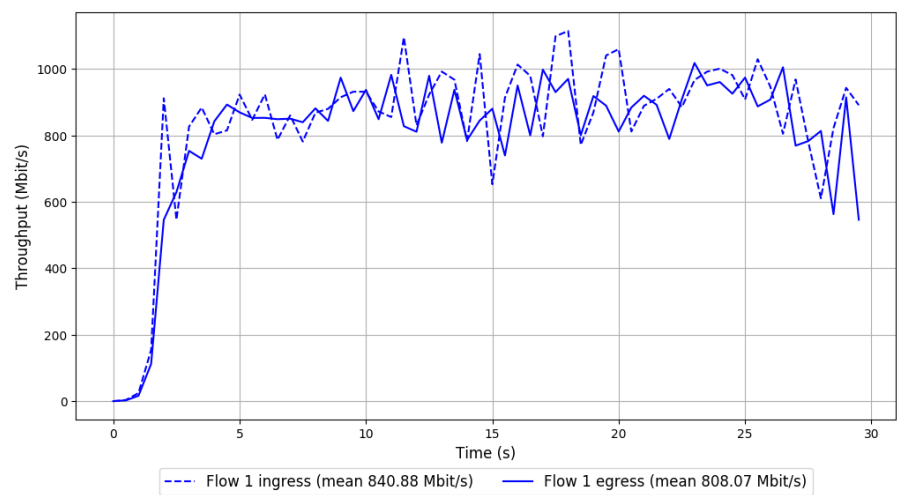
-- Flow 1:

Average throughput: 808.07 Mbit/s

95th percentile per-packet one-way delay: 280.899 ms

Loss rate: 4.63%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-04-10 05:54:27

End at: 2018-04-10 05:54:57

Below is generated by plot.py at 2018-04-10 10:21:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 763.92 Mbit/s

95th percentile per-packet one-way delay: 209.739 ms

Loss rate: 5.24%

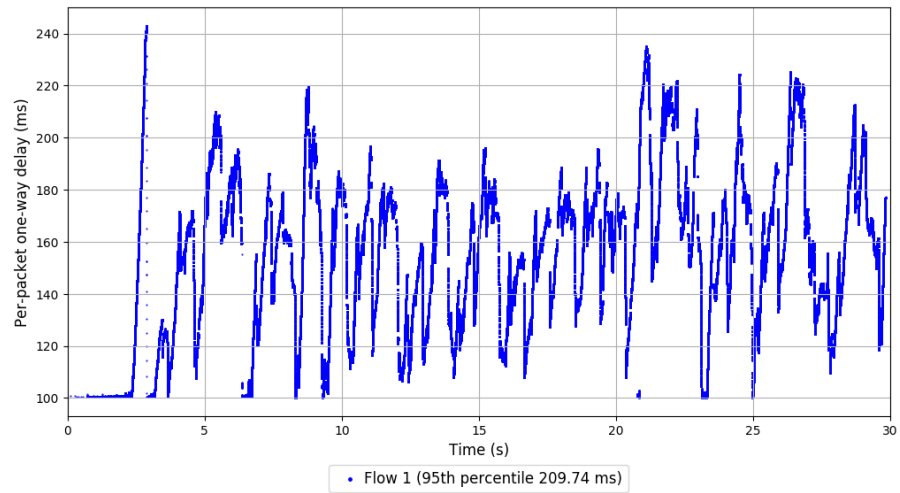
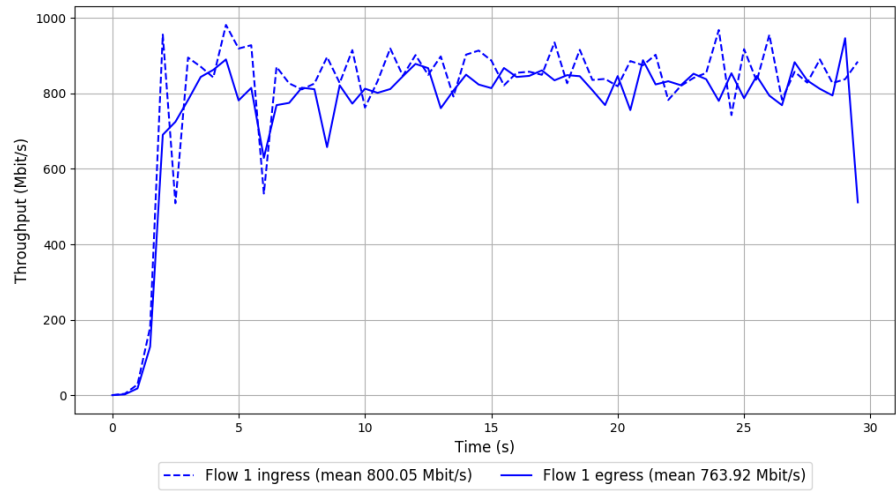
-- Flow 1:

Average throughput: 763.92 Mbit/s

95th percentile per-packet one-way delay: 209.739 ms

Loss rate: 5.24%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-04-10 06:09:51

End at: 2018-04-10 06:10:21

Below is generated by plot.py at 2018-04-10 10:22:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 789.54 Mbit/s

95th percentile per-packet one-way delay: 179.026 ms

Loss rate: 1.30%

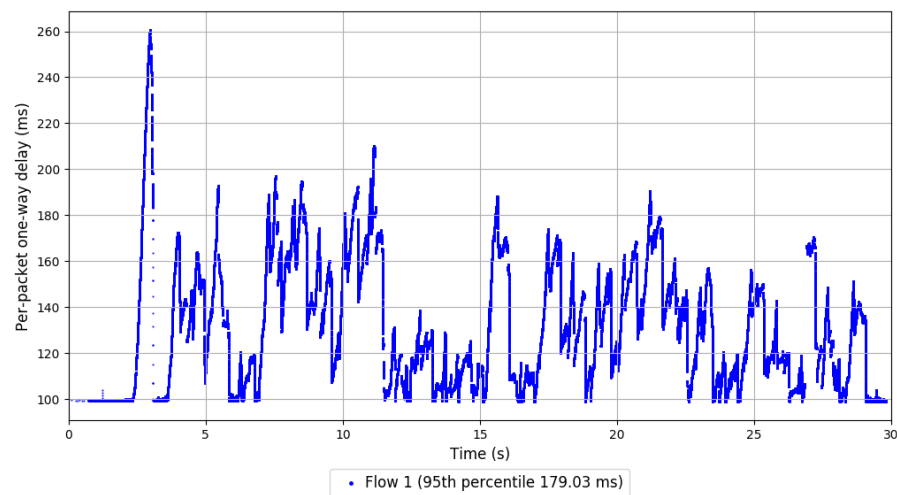
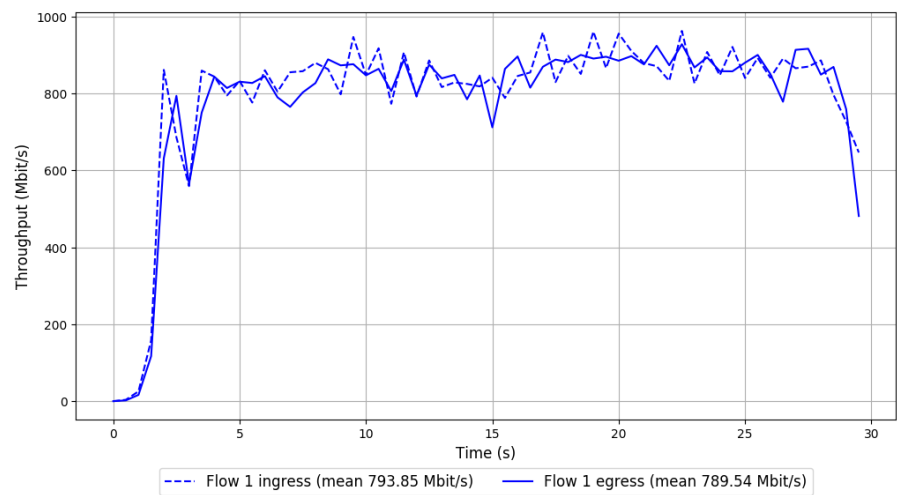
-- Flow 1:

Average throughput: 789.54 Mbit/s

95th percentile per-packet one-way delay: 179.026 ms

Loss rate: 1.30%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-04-10 06:25:09

End at: 2018-04-10 06:25:39

Below is generated by plot.py at 2018-04-10 10:27:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 769.91 Mbit/s

95th percentile per-packet one-way delay: 217.305 ms

Loss rate: 2.47%

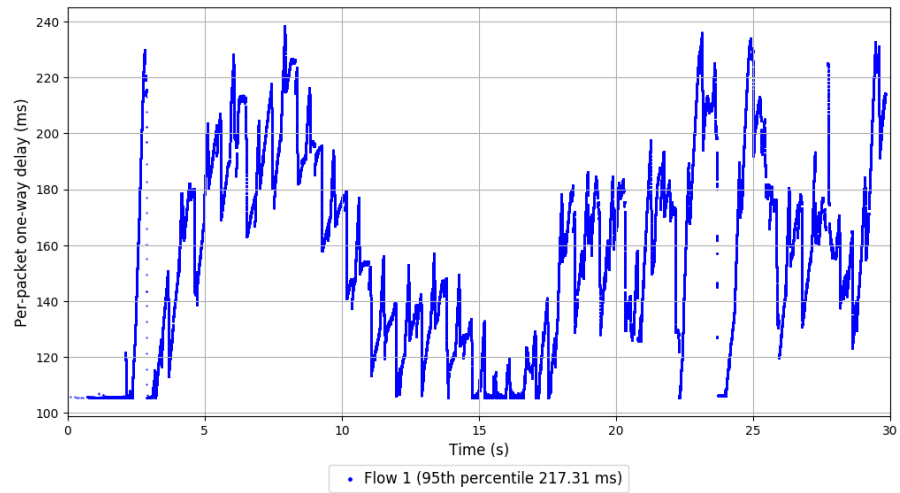
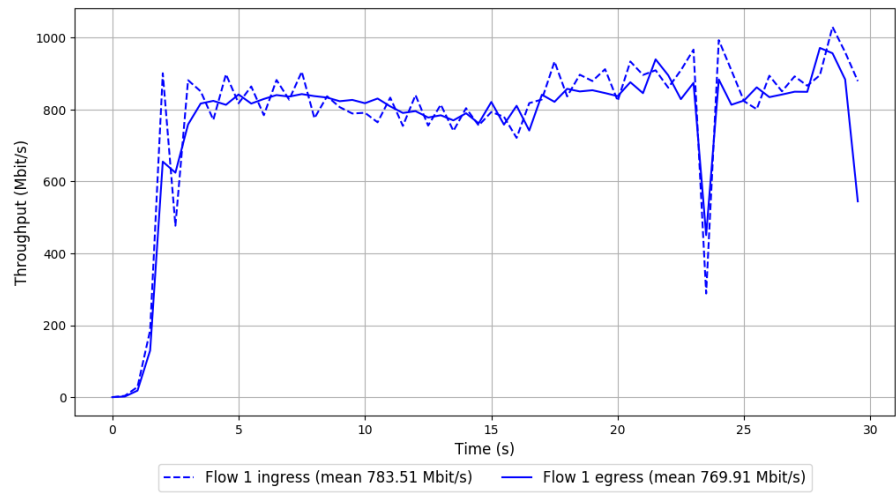
-- Flow 1:

Average throughput: 769.91 Mbit/s

95th percentile per-packet one-way delay: 217.305 ms

Loss rate: 2.47%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-04-10 06:40:13

End at: 2018-04-10 06:40:43

Below is generated by plot.py at 2018-04-10 10:27:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 307.36 Mbit/s

95th percentile per-packet one-way delay: 250.511 ms

Loss rate: 4.15%

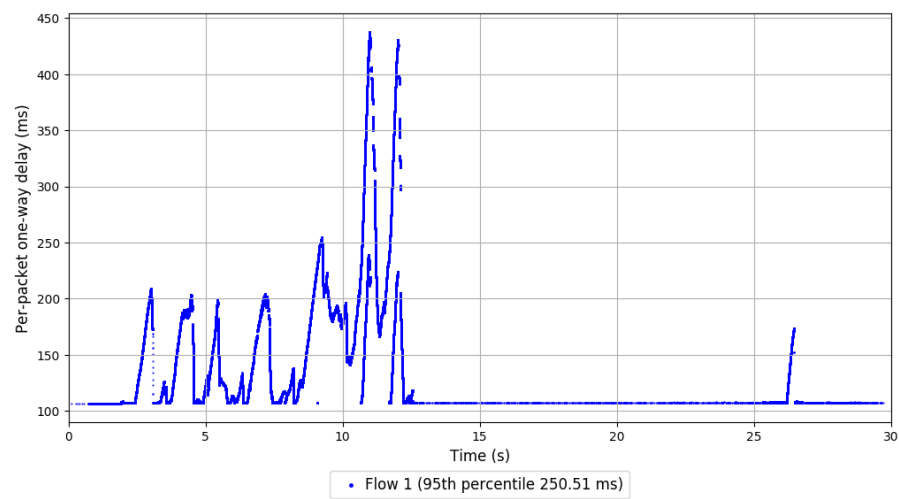
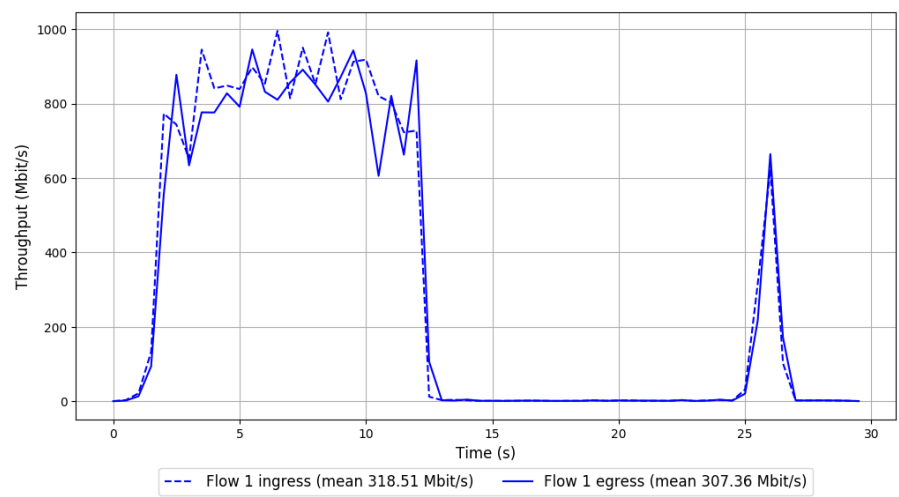
-- Flow 1:

Average throughput: 307.36 Mbit/s

95th percentile per-packet one-way delay: 250.511 ms

Loss rate: 4.15%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-04-10 06:54:57

End at: 2018-04-10 06:55:27

Below is generated by plot.py at 2018-04-10 10:27:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 364.40 Mbit/s

95th percentile per-packet one-way delay: 248.114 ms

Loss rate: 3.87%

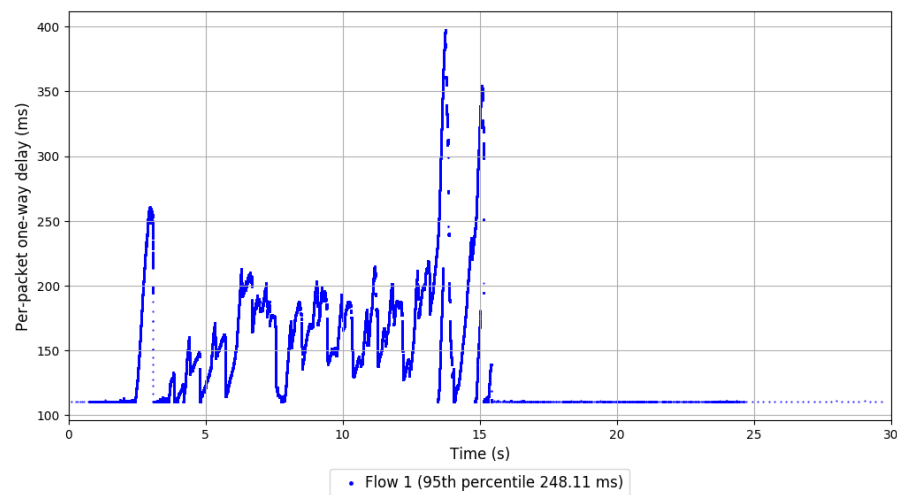
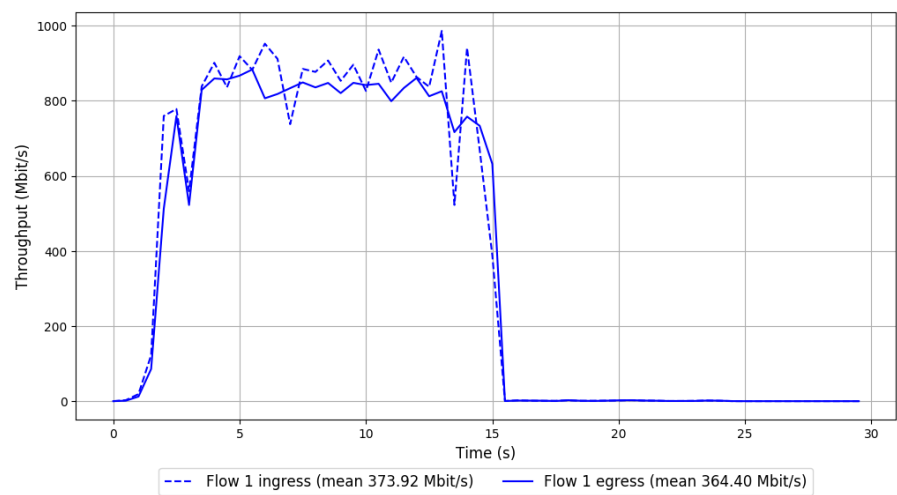
-- Flow 1:

Average throughput: 364.40 Mbit/s

95th percentile per-packet one-way delay: 248.114 ms

Loss rate: 3.87%

Run 10: Report of FillP — Data Link

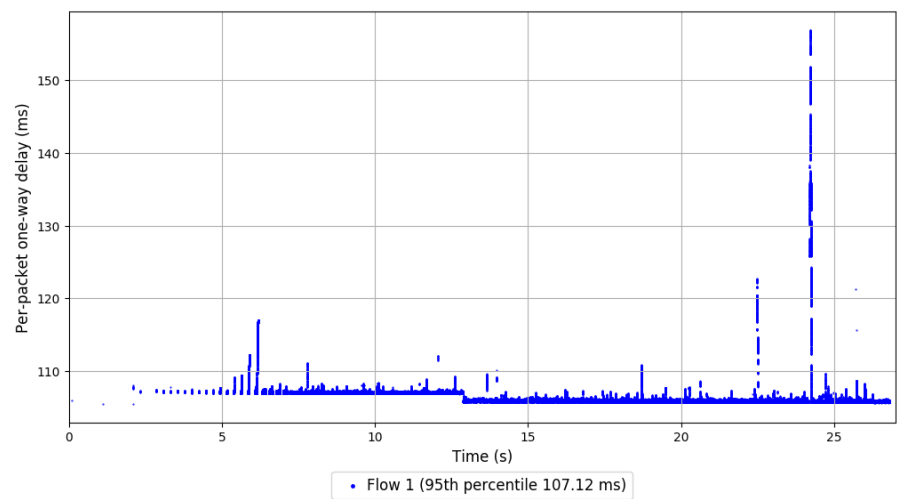
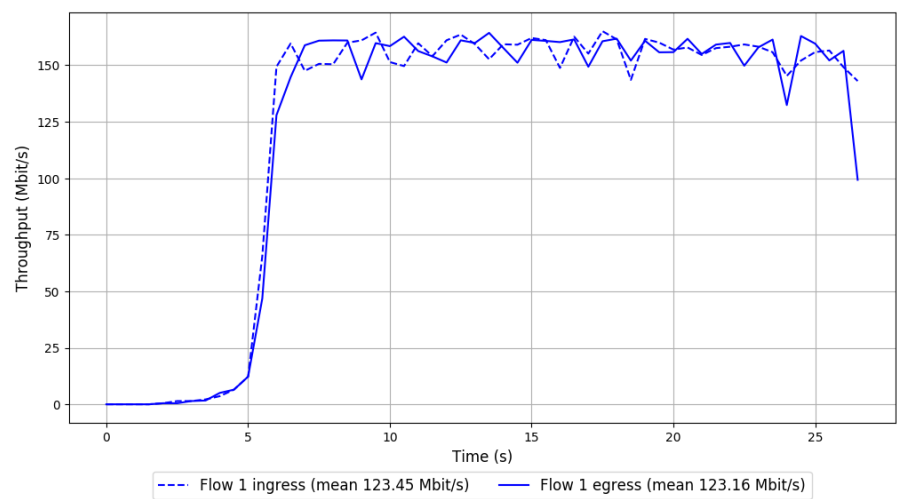


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-04-10 04:40:46
End at: 2018-04-10 04:41:16

# Below is generated by plot.py at 2018-04-10 10:27:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 123.16 Mbit/s
95th percentile per-packet one-way delay: 107.118 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 123.16 Mbit/s
95th percentile per-packet one-way delay: 107.118 ms
Loss rate: 1.08%
```

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

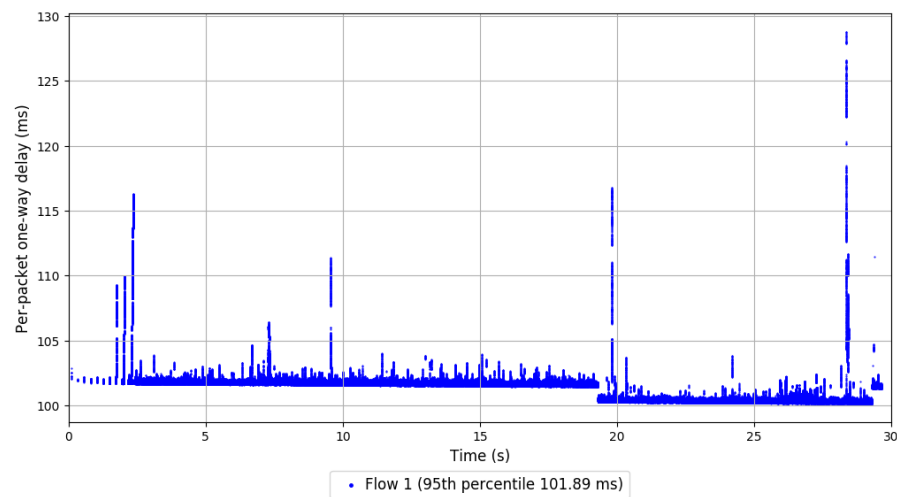
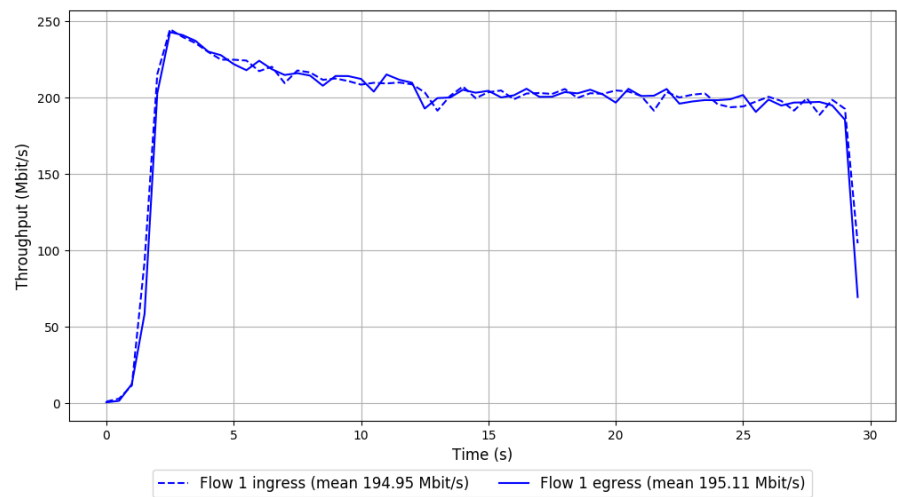


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-04-10 04:55:53
End at: 2018-04-10 04:56:23

# Below is generated by plot.py at 2018-04-10 10:27:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 195.11 Mbit/s
95th percentile per-packet one-way delay: 101.893 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 195.11 Mbit/s
95th percentile per-packet one-way delay: 101.893 ms
Loss rate: 0.68%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-04-10 05:11:01

End at: 2018-04-10 05:11:31

Below is generated by plot.py at 2018-04-10 10:27:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.44 Mbit/s

95th percentile per-packet one-way delay: 99.436 ms

Loss rate: 0.77%

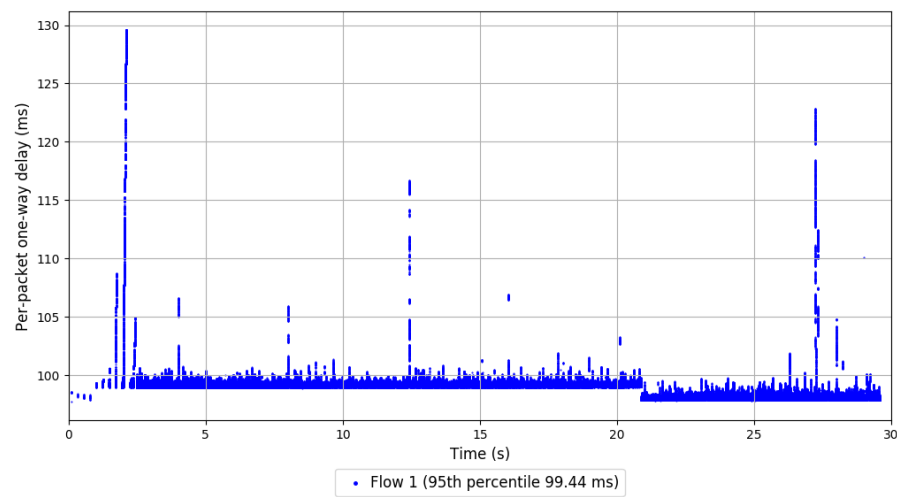
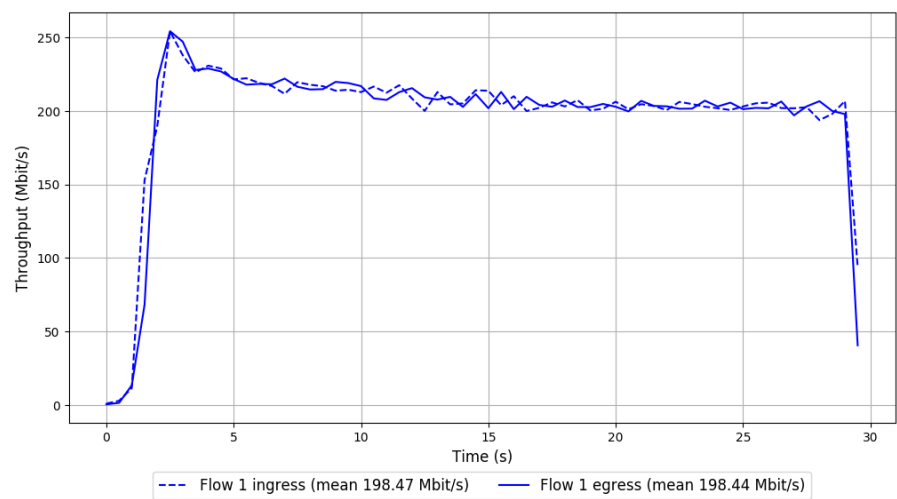
-- Flow 1:

Average throughput: 198.44 Mbit/s

95th percentile per-packet one-way delay: 99.436 ms

Loss rate: 0.77%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-04-10 05:26:06

End at: 2018-04-10 05:26:36

Below is generated by plot.py at 2018-04-10 10:27:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.75 Mbit/s

95th percentile per-packet one-way delay: 93.434 ms

Loss rate: 0.80%

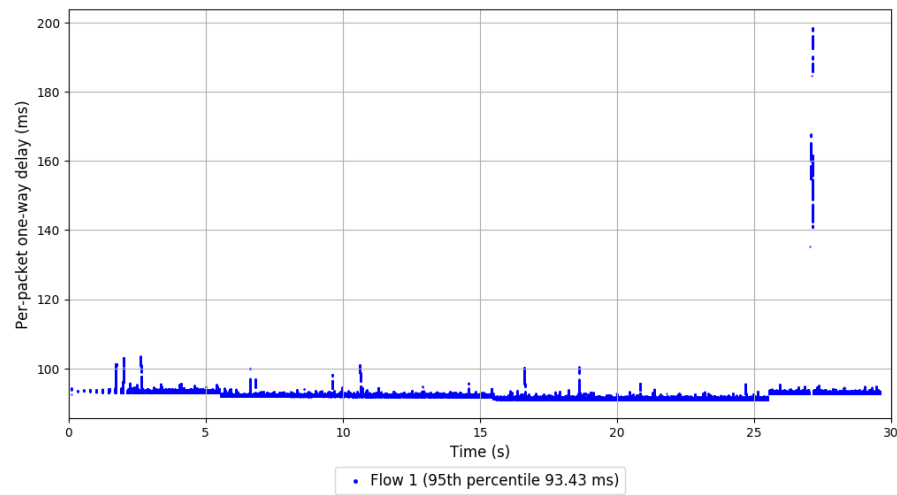
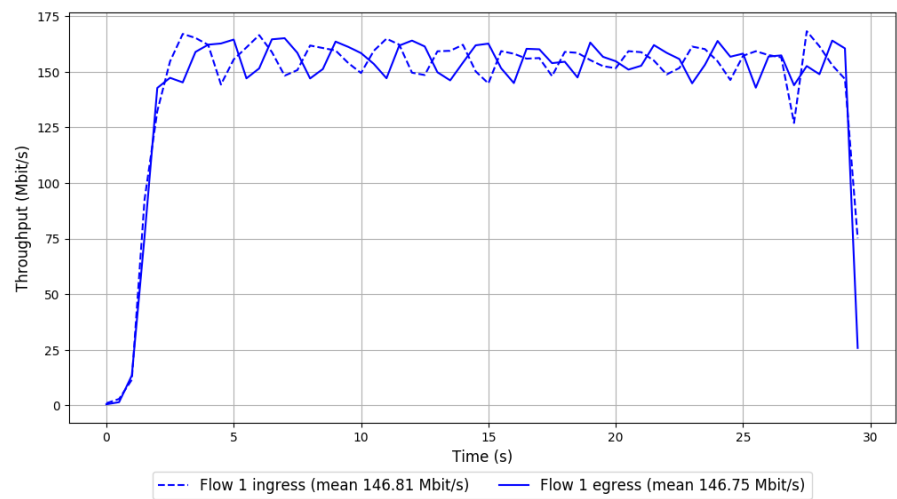
-- Flow 1:

Average throughput: 146.75 Mbit/s

95th percentile per-packet one-way delay: 93.434 ms

Loss rate: 0.80%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-04-10 05:41:07

End at: 2018-04-10 05:41:37

Below is generated by plot.py at 2018-04-10 10:27:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.37 Mbit/s

95th percentile per-packet one-way delay: 92.663 ms

Loss rate: 0.81%

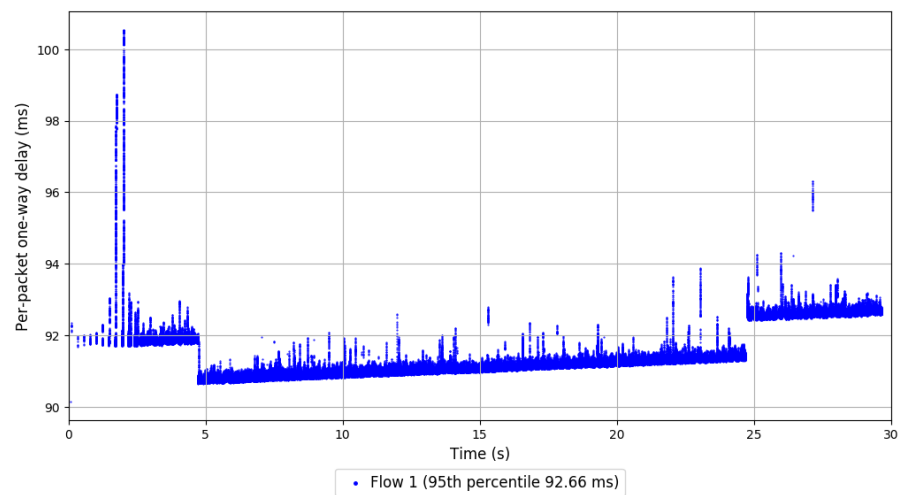
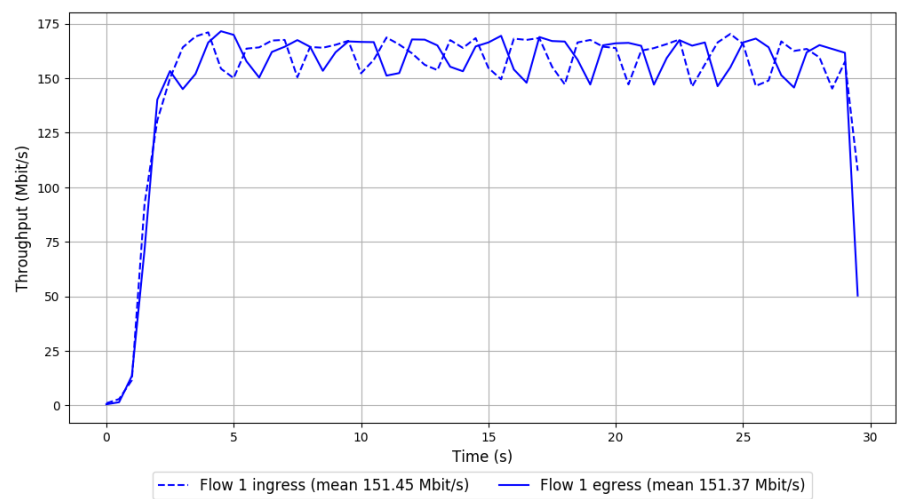
-- Flow 1:

Average throughput: 151.37 Mbit/s

95th percentile per-packet one-way delay: 92.663 ms

Loss rate: 0.81%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-04-10 05:56:20

End at: 2018-04-10 05:56:50

Below is generated by plot.py at 2018-04-10 10:27:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.69 Mbit/s

95th percentile per-packet one-way delay: 101.474 ms

Loss rate: 0.72%

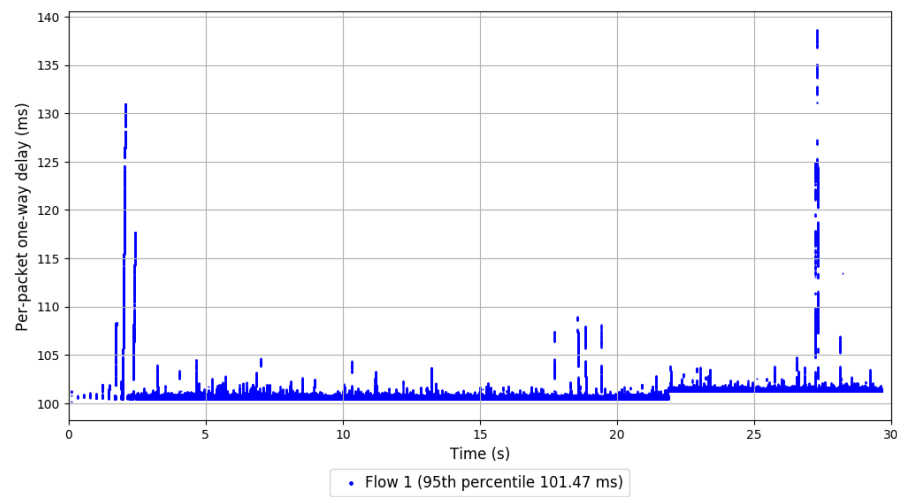
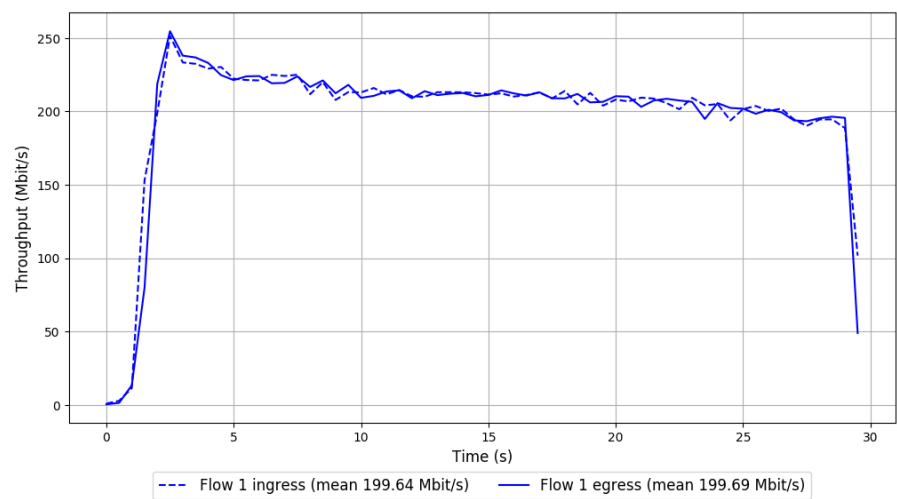
-- Flow 1:

Average throughput: 199.69 Mbit/s

95th percentile per-packet one-way delay: 101.474 ms

Loss rate: 0.72%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-04-10 06:11:42

End at: 2018-04-10 06:12:12

Below is generated by plot.py at 2018-04-10 10:27:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.46 Mbit/s

95th percentile per-packet one-way delay: 97.162 ms

Loss rate: 0.76%

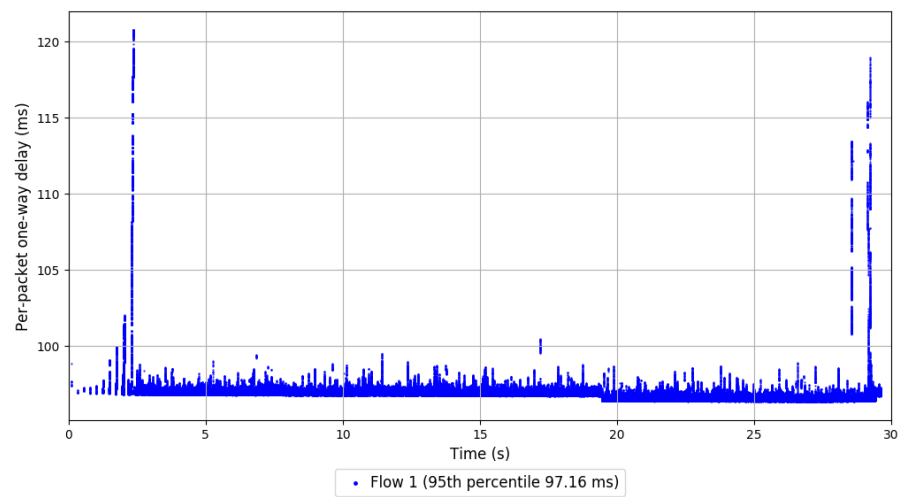
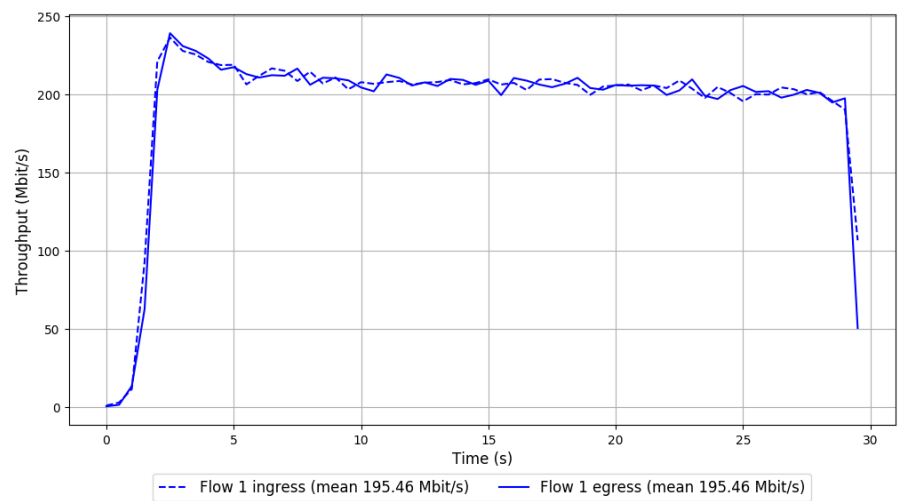
-- Flow 1:

Average throughput: 195.46 Mbit/s

95th percentile per-packet one-way delay: 97.162 ms

Loss rate: 0.76%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-04-10 06:26:59

End at: 2018-04-10 06:27:29

Below is generated by plot.py at 2018-04-10 10:27:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.90 Mbit/s

95th percentile per-packet one-way delay: 107.836 ms

Loss rate: 0.77%

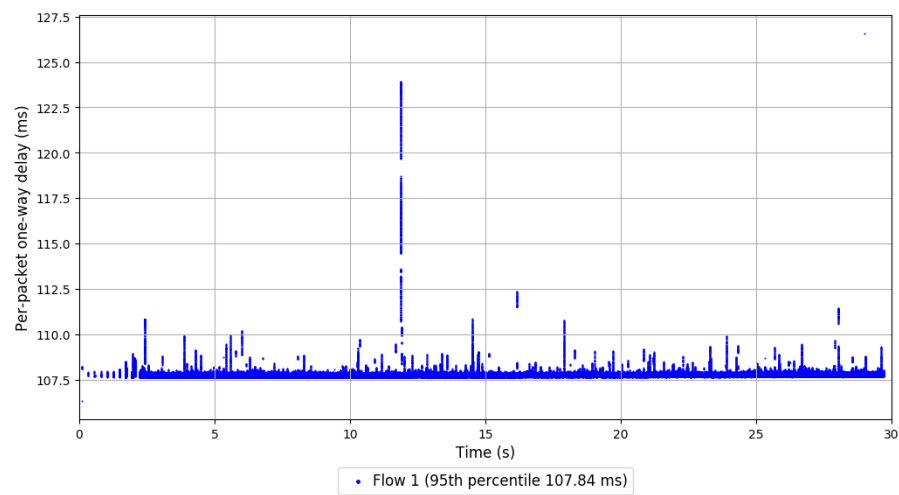
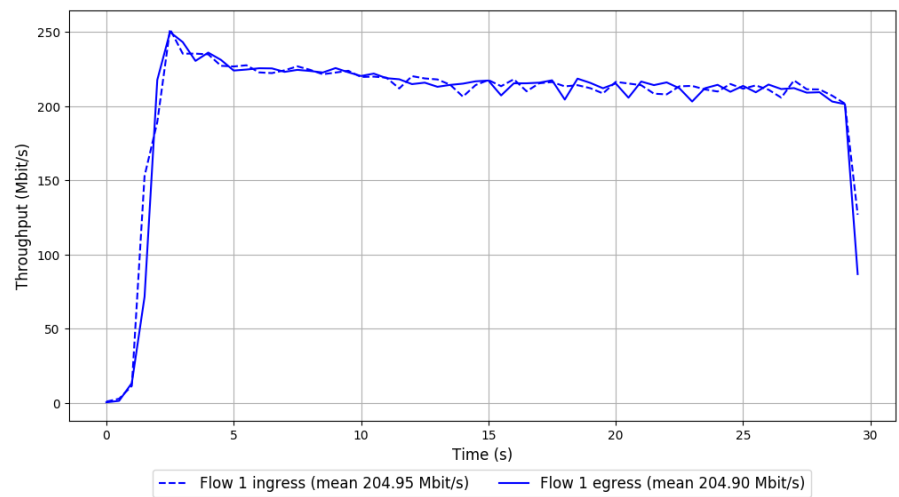
-- Flow 1:

Average throughput: 204.90 Mbit/s

95th percentile per-packet one-way delay: 107.836 ms

Loss rate: 0.77%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-04-10 06:41:47

End at: 2018-04-10 06:42:17

Below is generated by plot.py at 2018-04-10 10:28:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.58 Mbit/s

95th percentile per-packet one-way delay: 107.086 ms

Loss rate: 0.77%

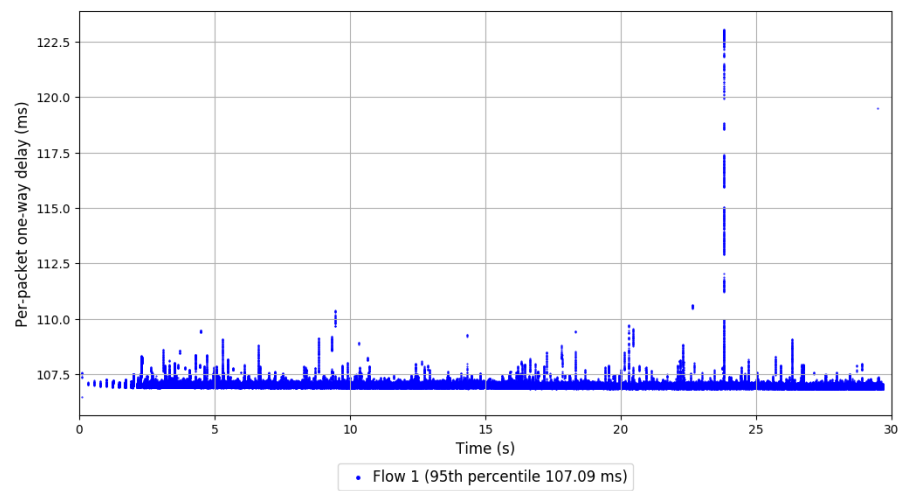
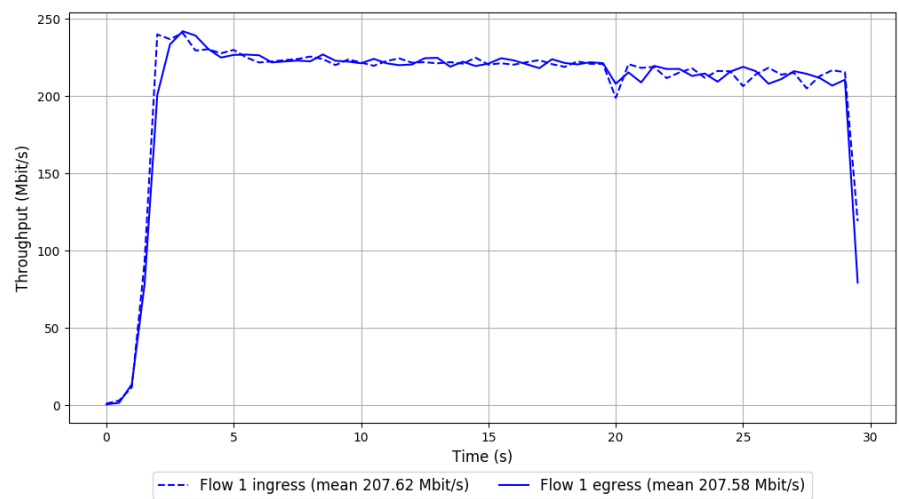
-- Flow 1:

Average throughput: 207.58 Mbit/s

95th percentile per-packet one-way delay: 107.086 ms

Loss rate: 0.77%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-04-10 06:56:33

End at: 2018-04-10 06:57:03

Below is generated by plot.py at 2018-04-10 10:28:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 164.30 Mbit/s

95th percentile per-packet one-way delay: 128.317 ms

Loss rate: 0.72%

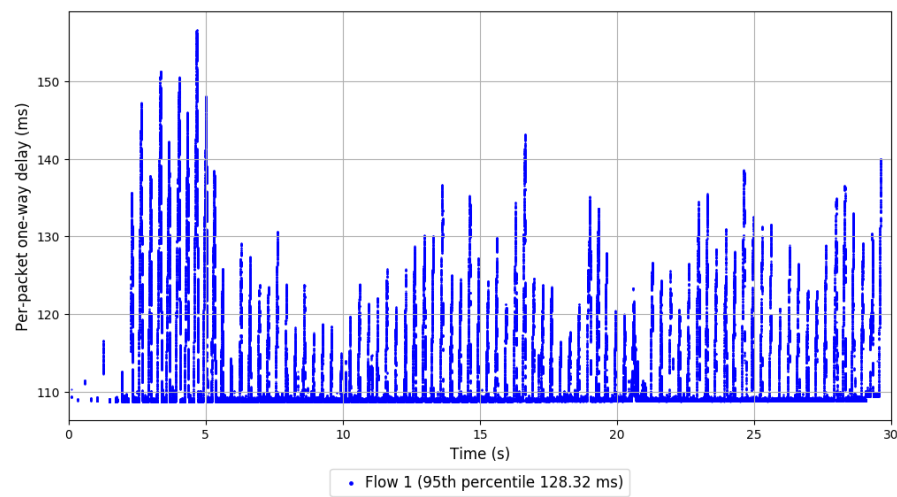
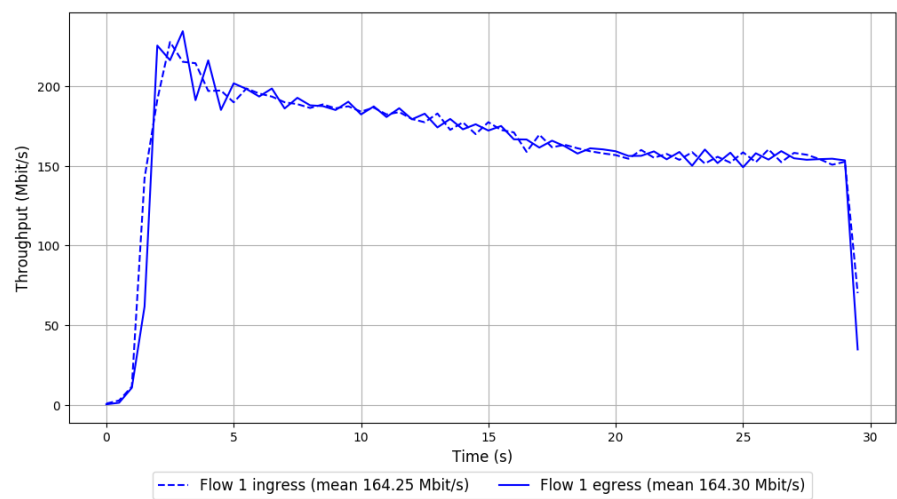
-- Flow 1:

Average throughput: 164.30 Mbit/s

95th percentile per-packet one-way delay: 128.317 ms

Loss rate: 0.72%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-04-10 04:47:15

End at: 2018-04-10 04:47:45

Below is generated by plot.py at 2018-04-10 10:29:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 233.62 Mbit/s

95th percentile per-packet one-way delay: 99.985 ms

Loss rate: 0.90%

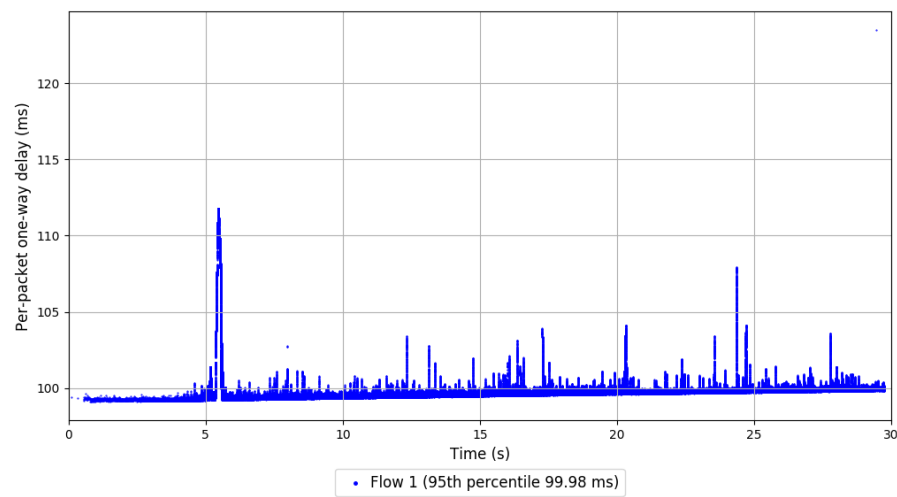
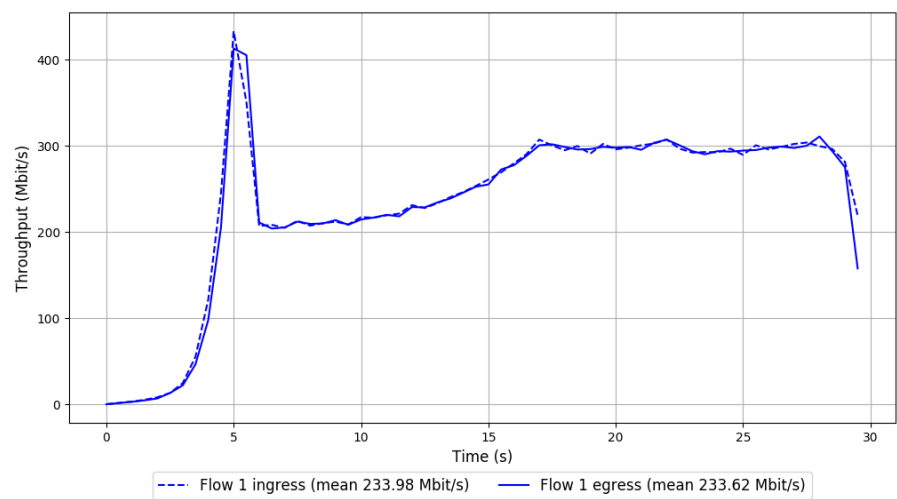
-- Flow 1:

Average throughput: 233.62 Mbit/s

95th percentile per-packet one-way delay: 99.985 ms

Loss rate: 0.90%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-04-10 05:02:12

End at: 2018-04-10 05:02:42

Below is generated by plot.py at 2018-04-10 10:30:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 264.93 Mbit/s

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

Loss rate: 1.42%

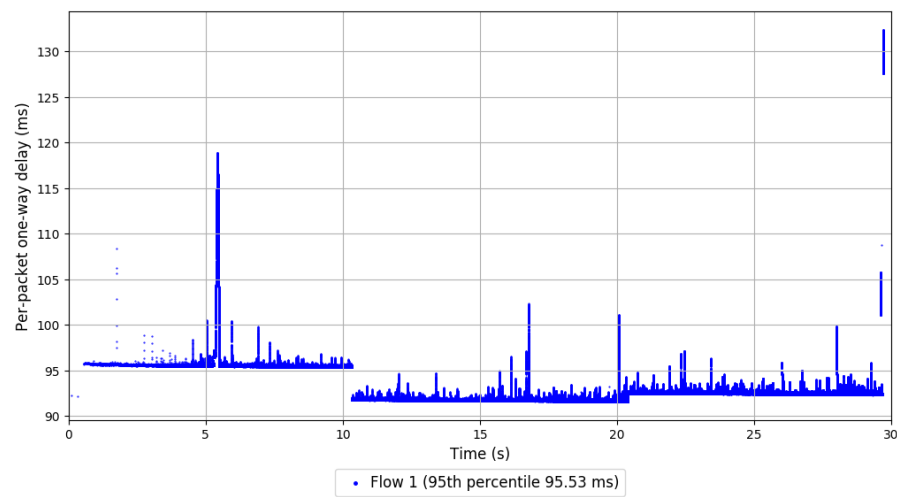
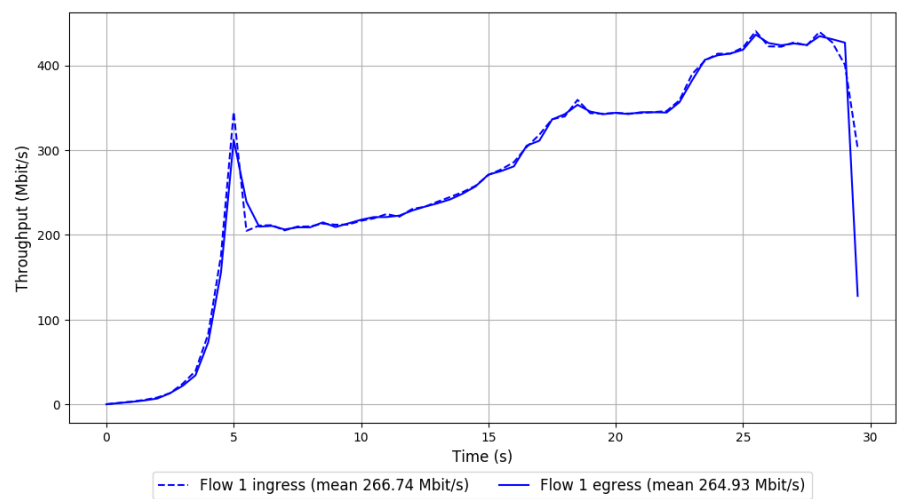
-- Flow 1:

Average throughput: 264.93 Mbit/s

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

Loss rate: 1.42%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-04-10 05:17:22

End at: 2018-04-10 05:17:52

Below is generated by plot.py at 2018-04-10 10:30:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 243.01 Mbit/s

95th percentile per-packet one-way delay: 98.216 ms

Loss rate: 0.93%

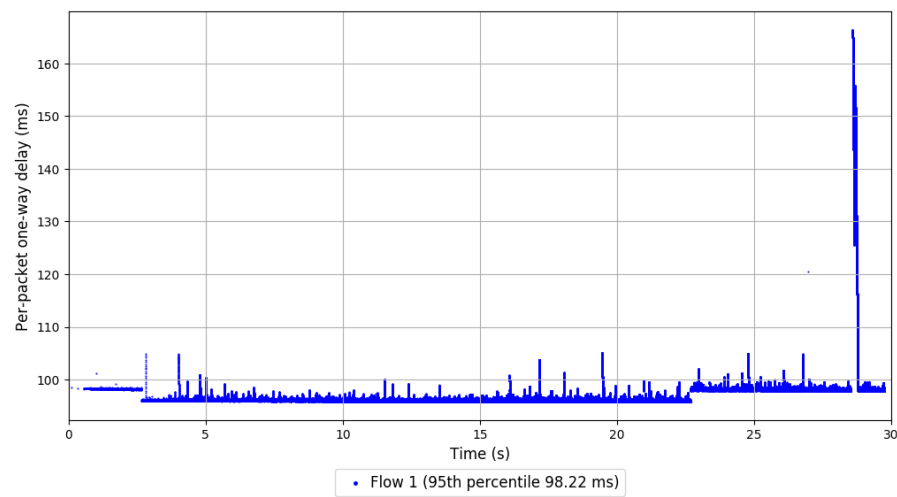
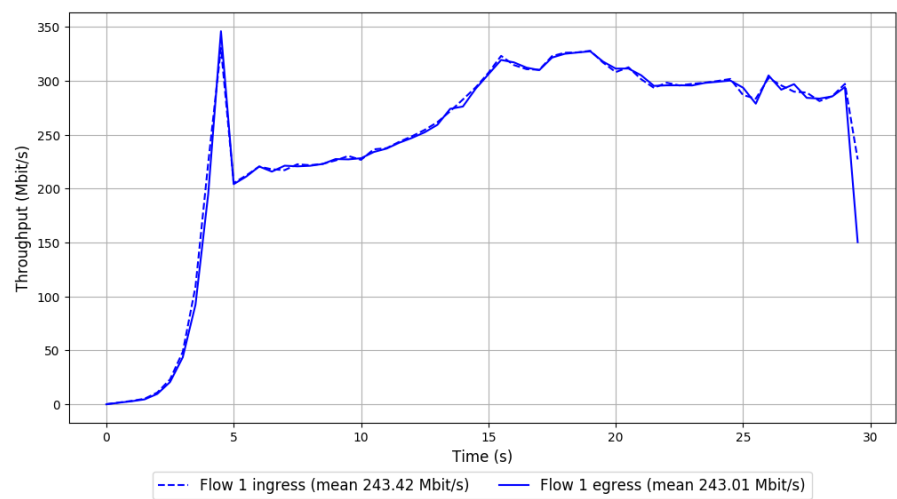
-- Flow 1:

Average throughput: 243.01 Mbit/s

95th percentile per-packet one-way delay: 98.216 ms

Loss rate: 0.93%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-04-10 05:32:27

End at: 2018-04-10 05:32:57

Below is generated by plot.py at 2018-04-10 10:31:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 246.17 Mbit/s

95th percentile per-packet one-way delay: 88.641 ms

Loss rate: 0.63%

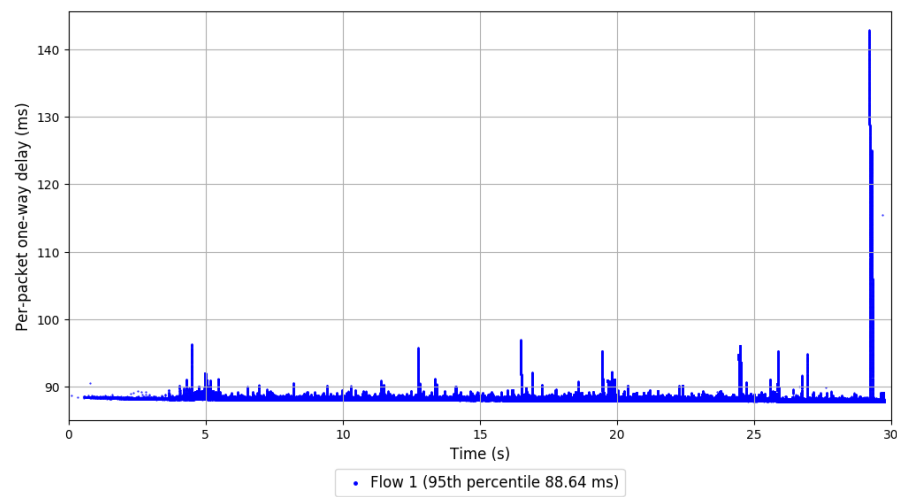
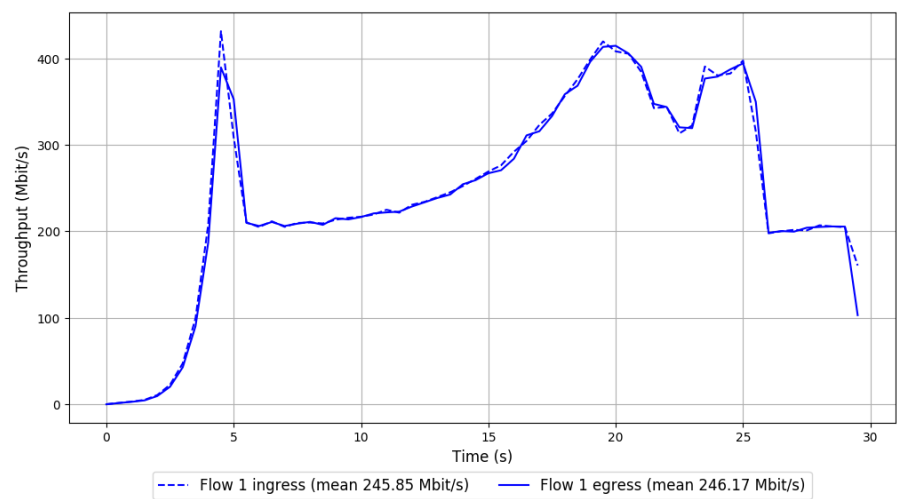
-- Flow 1:

Average throughput: 246.17 Mbit/s

95th percentile per-packet one-way delay: 88.641 ms

Loss rate: 0.63%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-04-10 05:47:27

End at: 2018-04-10 05:47:57

Below is generated by plot.py at 2018-04-10 10:33:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 328.63 Mbit/s

95th percentile per-packet one-way delay: 99.946 ms

Loss rate: 0.89%

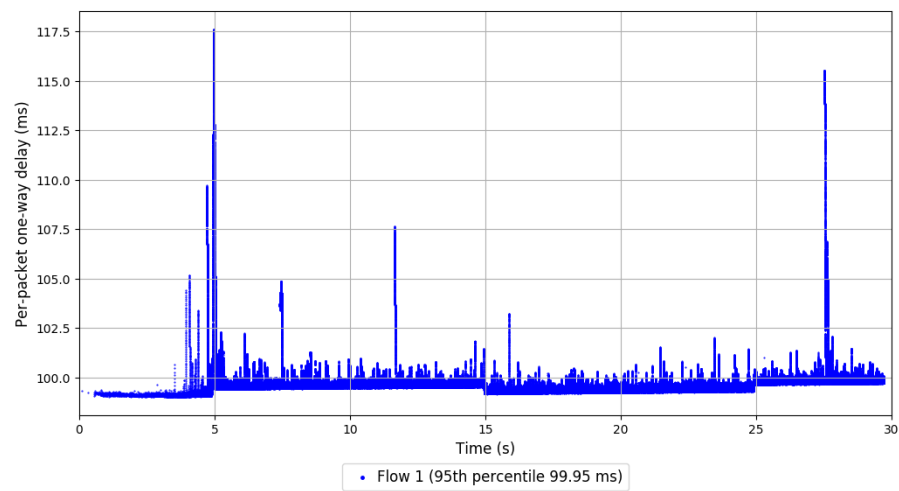
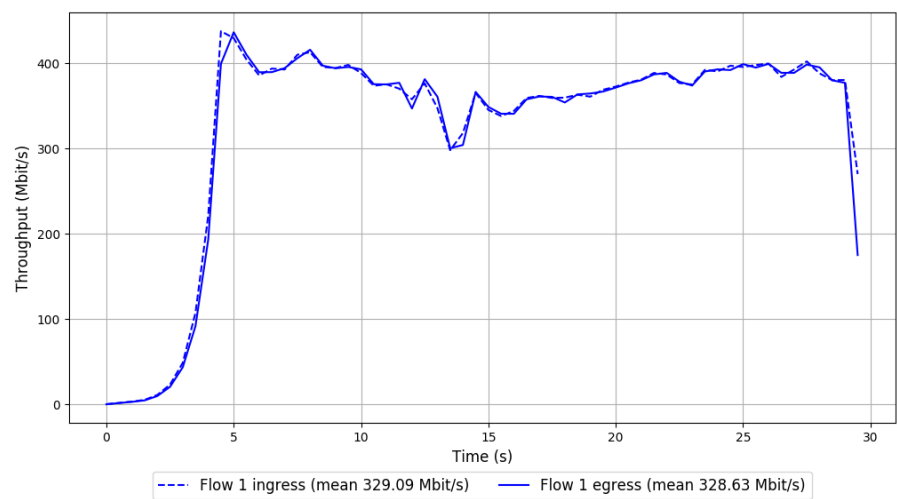
-- Flow 1:

Average throughput: 328.63 Mbit/s

95th percentile per-packet one-way delay: 99.946 ms

Loss rate: 0.89%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-04-10 06:02:59

End at: 2018-04-10 06:03:29

Below is generated by plot.py at 2018-04-10 10:33:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.08 Mbit/s

95th percentile per-packet one-way delay: 100.953 ms

Loss rate: 0.75%

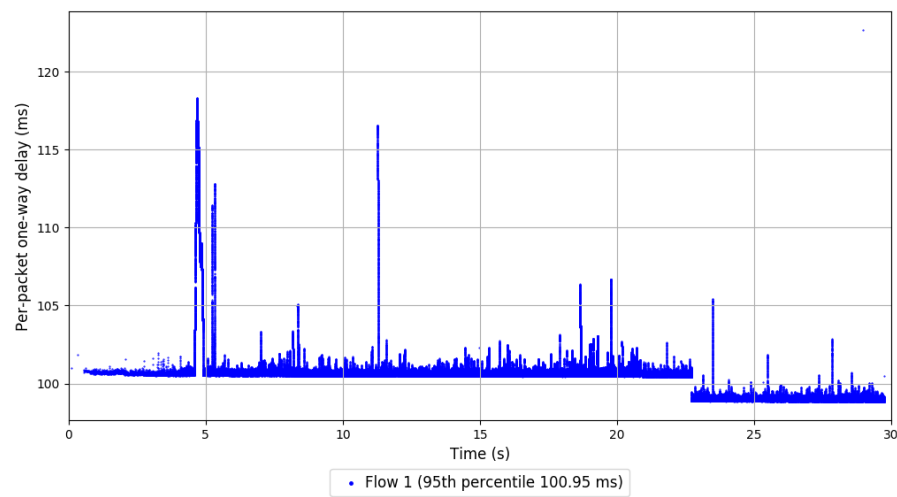
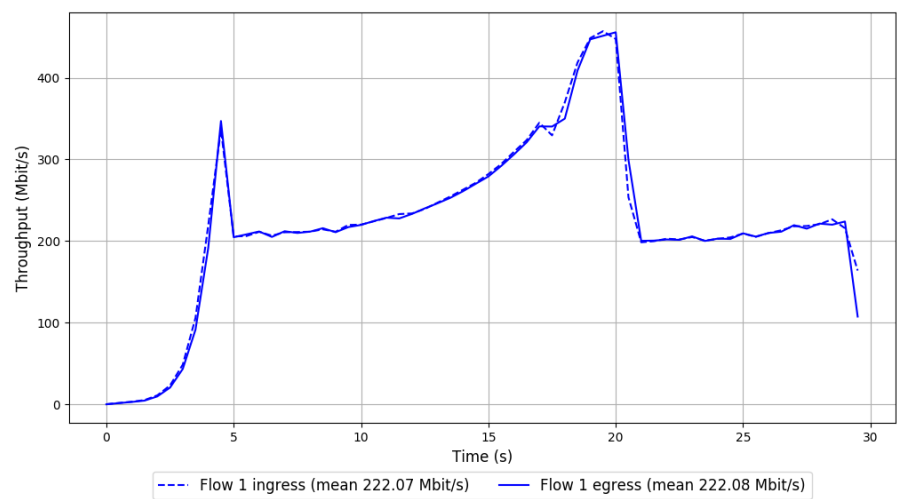
-- Flow 1:

Average throughput: 222.08 Mbit/s

95th percentile per-packet one-way delay: 100.953 ms

Loss rate: 0.75%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-04-10 06:18:10

End at: 2018-04-10 06:18:40

Below is generated by plot.py at 2018-04-10 10:33:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 351.24 Mbit/s

95th percentile per-packet one-way delay: 105.048 ms

Loss rate: 0.89%

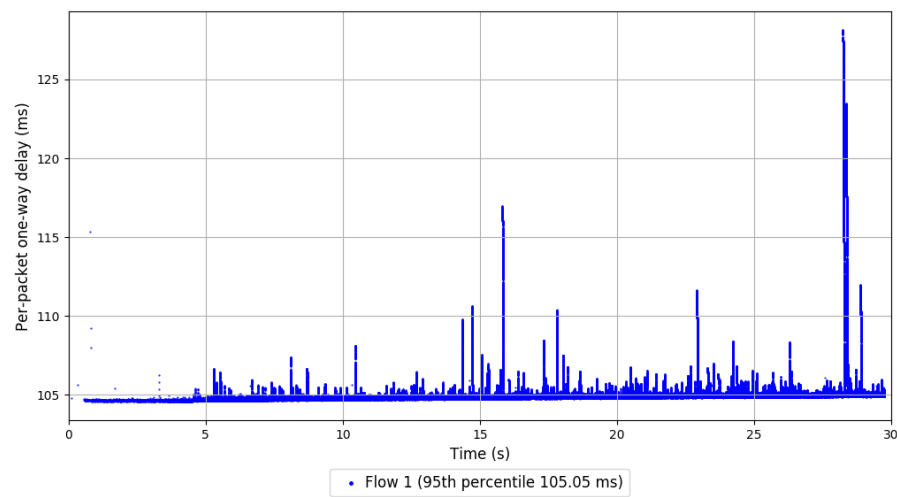
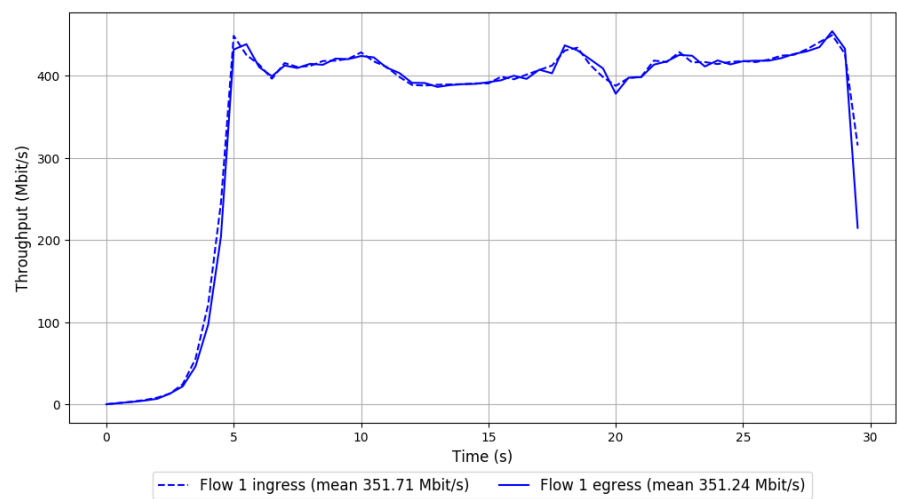
-- Flow 1:

Average throughput: 351.24 Mbit/s

95th percentile per-packet one-way delay: 105.048 ms

Loss rate: 0.89%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-04-10 06:33:24

End at: 2018-04-10 06:33:54

Below is generated by plot.py at 2018-04-10 10:33:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 330.22 Mbit/s

95th percentile per-packet one-way delay: 108.265 ms

Loss rate: 0.76%

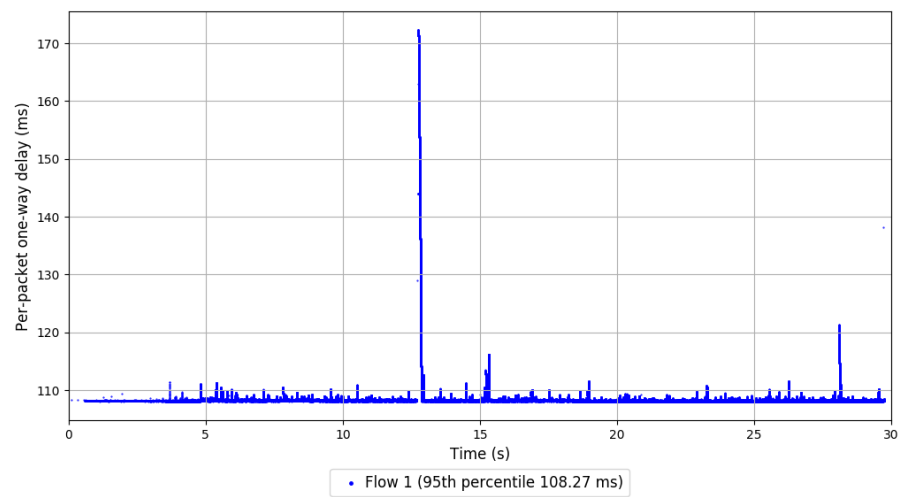
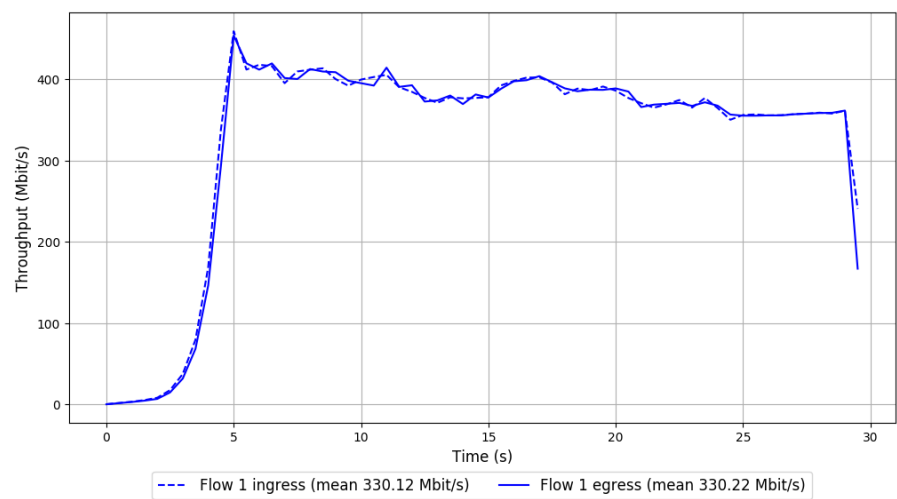
-- Flow 1:

Average throughput: 330.22 Mbit/s

95th percentile per-packet one-way delay: 108.265 ms

Loss rate: 0.76%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-04-10 06:48:13

End at: 2018-04-10 06:48:43

Below is generated by plot.py at 2018-04-10 10:33:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.55 Mbit/s

95th percentile per-packet one-way delay: 123.509 ms

Loss rate: 1.17%

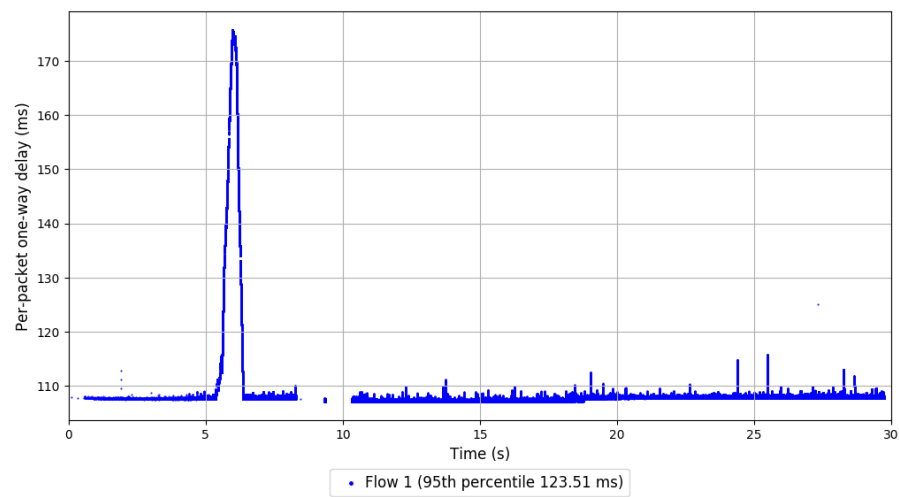
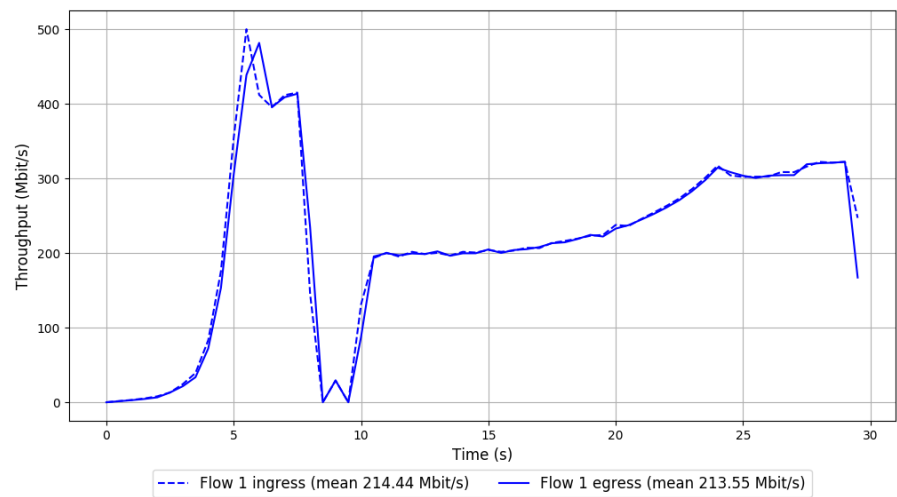
-- Flow 1:

Average throughput: 213.55 Mbit/s

95th percentile per-packet one-way delay: 123.509 ms

Loss rate: 1.17%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-04-10 07:03:06

End at: 2018-04-10 07:03:36

Below is generated by plot.py at 2018-04-10 10:35:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 304.36 Mbit/s

95th percentile per-packet one-way delay: 111.985 ms

Loss rate: 0.77%

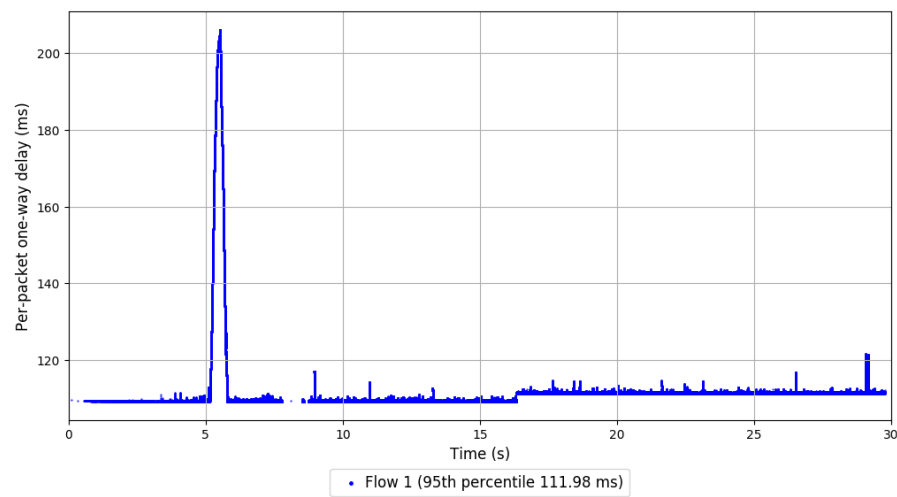
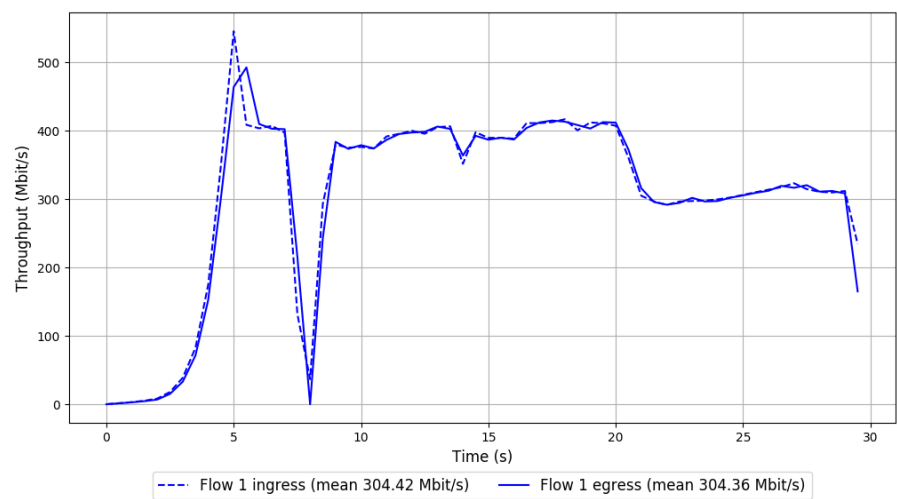
-- Flow 1:

Average throughput: 304.36 Mbit/s

95th percentile per-packet one-way delay: 111.985 ms

Loss rate: 0.77%

Run 10: Report of Vivace-latency — Data Link

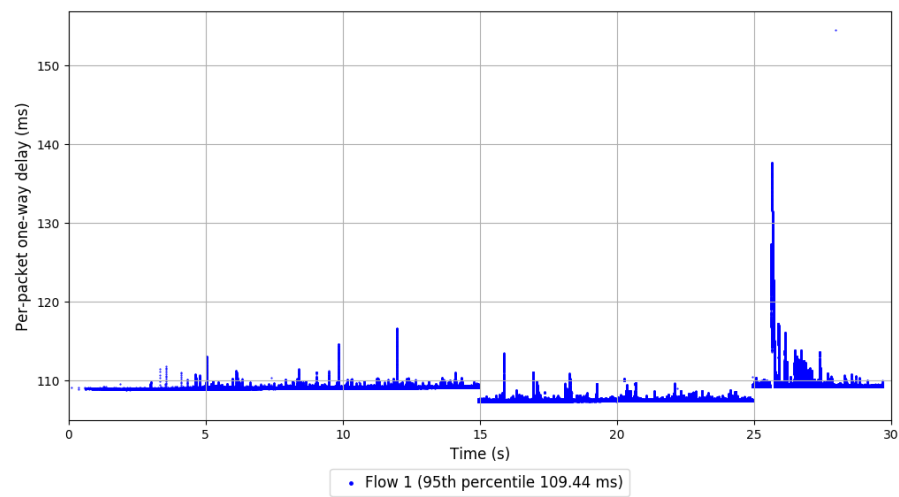
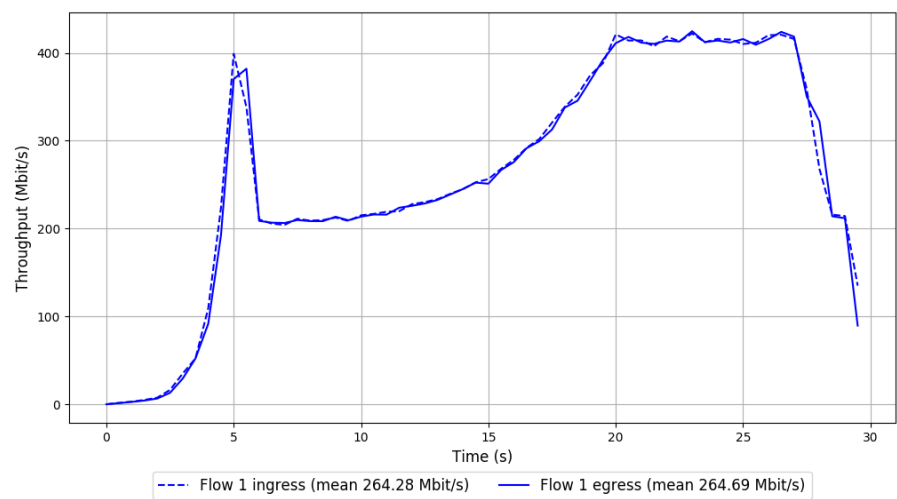


```
Run 1: Statistics of Vivace-loss

Start at: 2018-04-10 04:34:27
End at: 2018-04-10 04:34:57

# Below is generated by plot.py at 2018-04-10 10:35:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 264.69 Mbit/s
95th percentile per-packet one-way delay: 109.442 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 264.69 Mbit/s
95th percentile per-packet one-way delay: 109.442 ms
Loss rate: 0.60%
```

Run 1: Report of Vivace-loss — Data Link

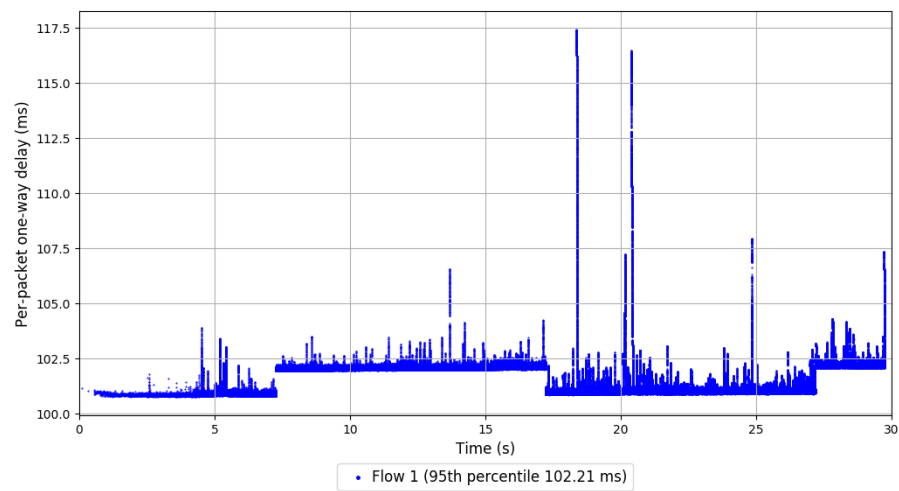
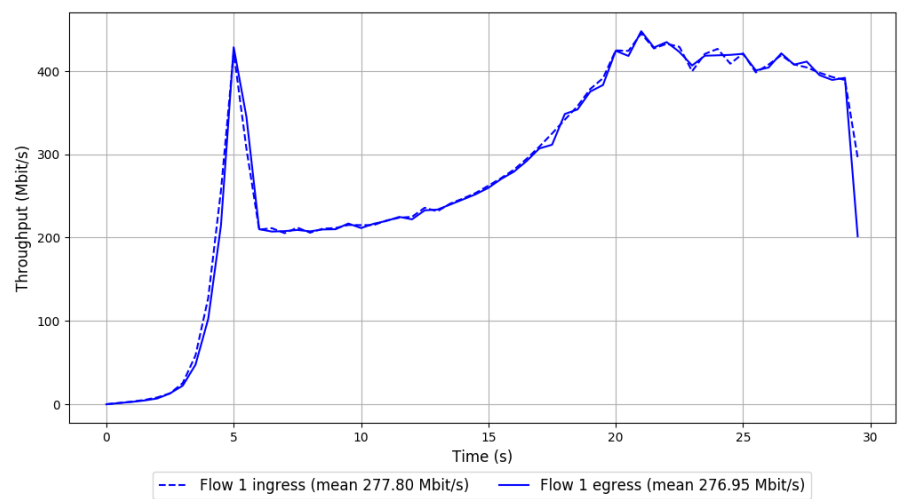


```
Run 2: Statistics of Vivace-loss

Start at: 2018-04-10 04:49:55
End at: 2018-04-10 04:50:25

# Below is generated by plot.py at 2018-04-10 10:36:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 276.95 Mbit/s
95th percentile per-packet one-way delay: 102.208 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 276.95 Mbit/s
95th percentile per-packet one-way delay: 102.208 ms
Loss rate: 1.05%
```

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-04-10 05:04:55

End at: 2018-04-10 05:05:25

Below is generated by plot.py at 2018-04-10 10:37:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 359.67 Mbit/s

95th percentile per-packet one-way delay: 96.288 ms

Loss rate: 0.90%

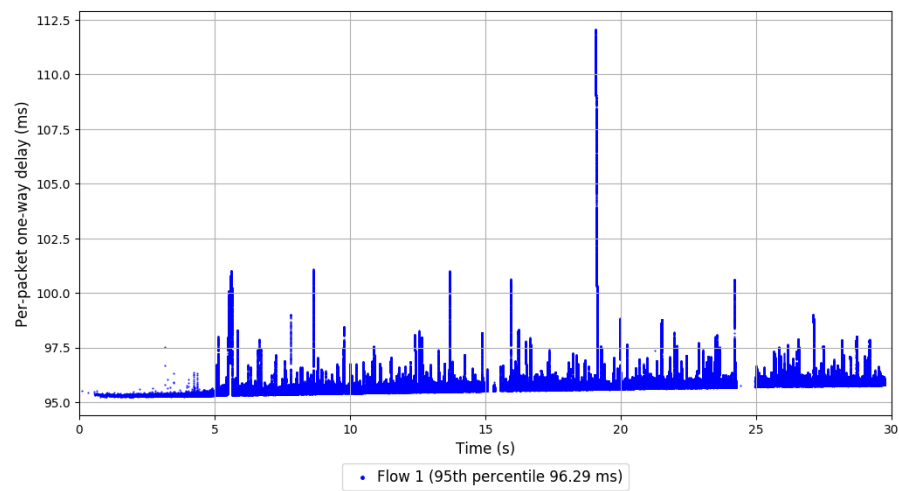
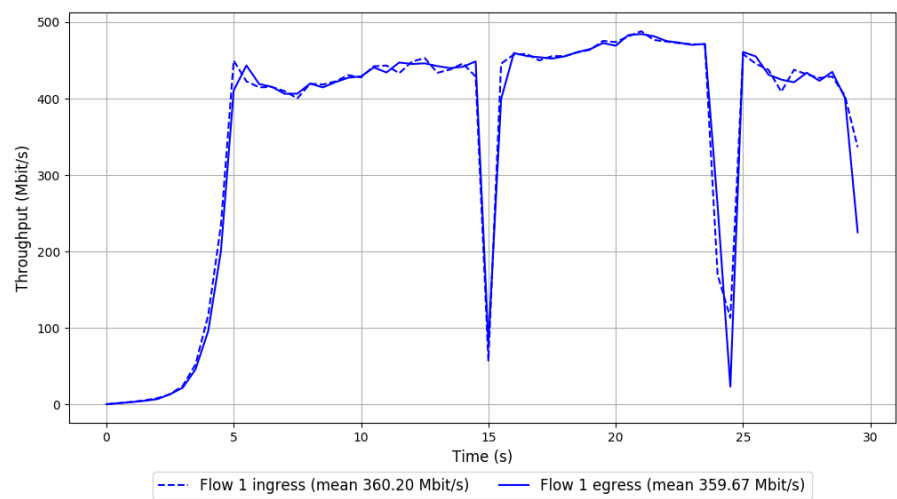
-- Flow 1:

Average throughput: 359.67 Mbit/s

95th percentile per-packet one-way delay: 96.288 ms

Loss rate: 0.90%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

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

End at: 2018-04-10 05:20:35

Below is generated by plot.py at 2018-04-10 10:37:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 282.70 Mbit/s

95th percentile per-packet one-way delay: 98.384 ms

Loss rate: 1.15%

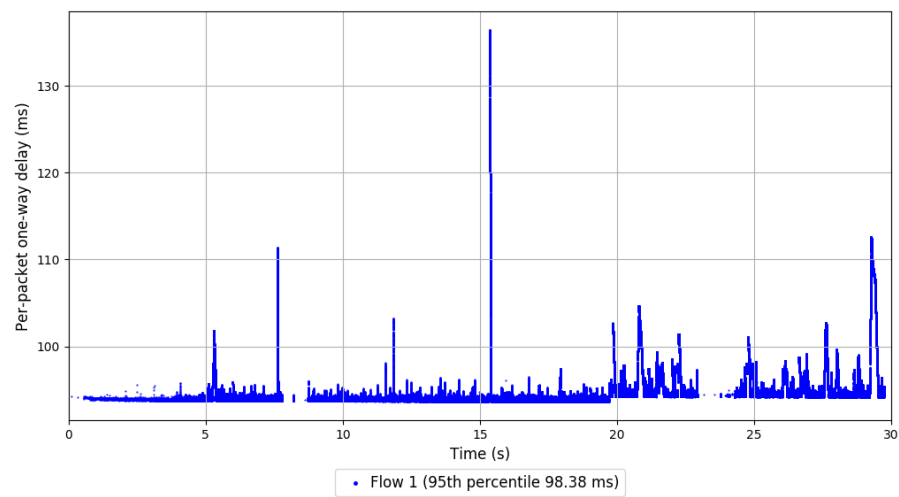
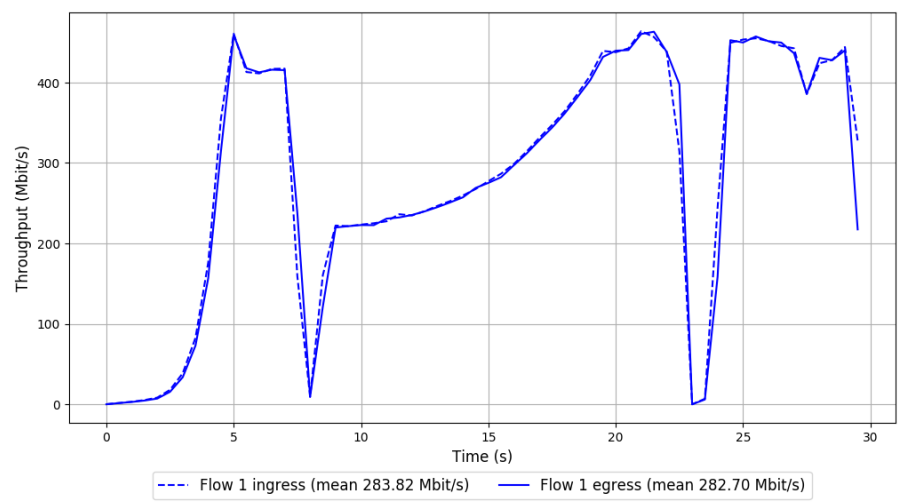
-- Flow 1:

Average throughput: 282.70 Mbit/s

95th percentile per-packet one-way delay: 98.384 ms

Loss rate: 1.15%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-04-10 05:35:10

End at: 2018-04-10 05:35:40

Below is generated by plot.py at 2018-04-10 10:37:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.46 Mbit/s

95th percentile per-packet one-way delay: 86.117 ms

Loss rate: 0.71%

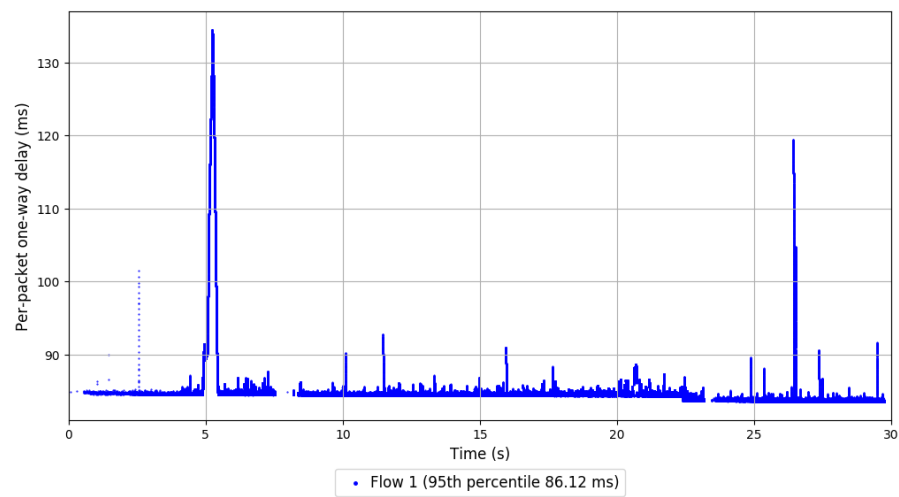
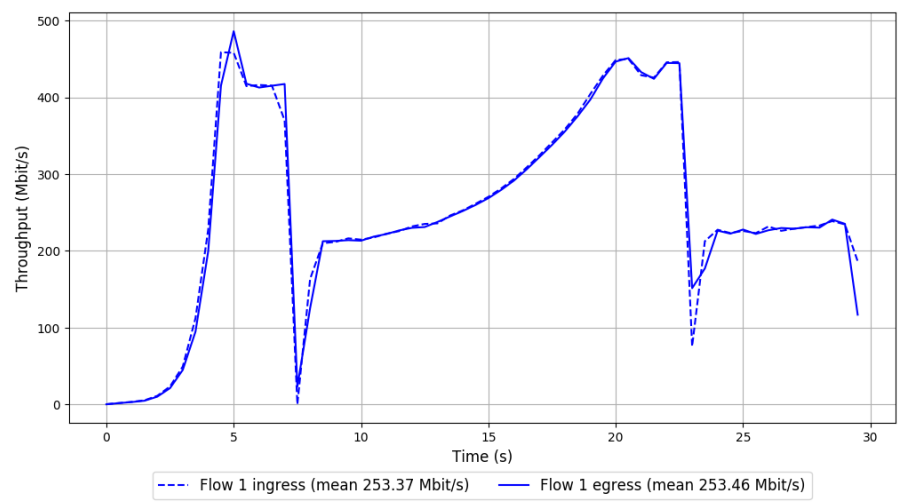
-- Flow 1:

Average throughput: 253.46 Mbit/s

95th percentile per-packet one-way delay: 86.117 ms

Loss rate: 0.71%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-04-10 05:50:14

End at: 2018-04-10 05:50:44

Below is generated by plot.py at 2018-04-10 10:40:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 368.66 Mbit/s

95th percentile per-packet one-way delay: 98.568 ms

Loss rate: 0.83%

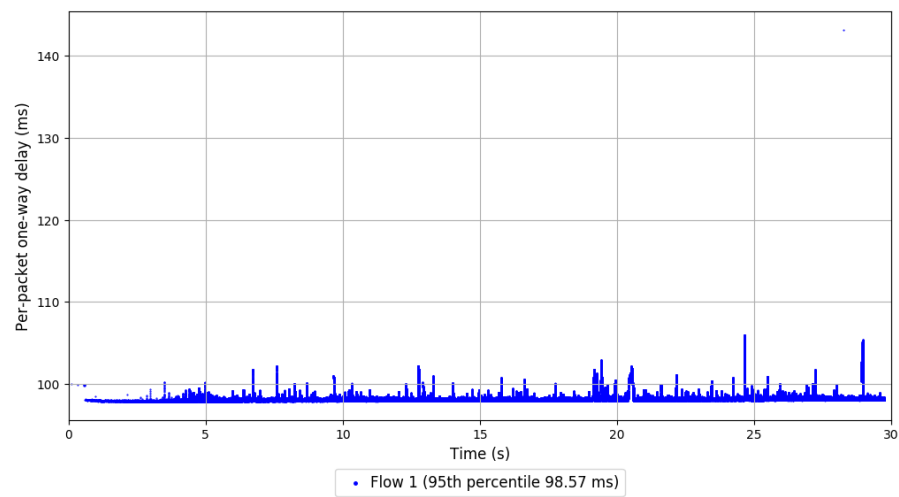
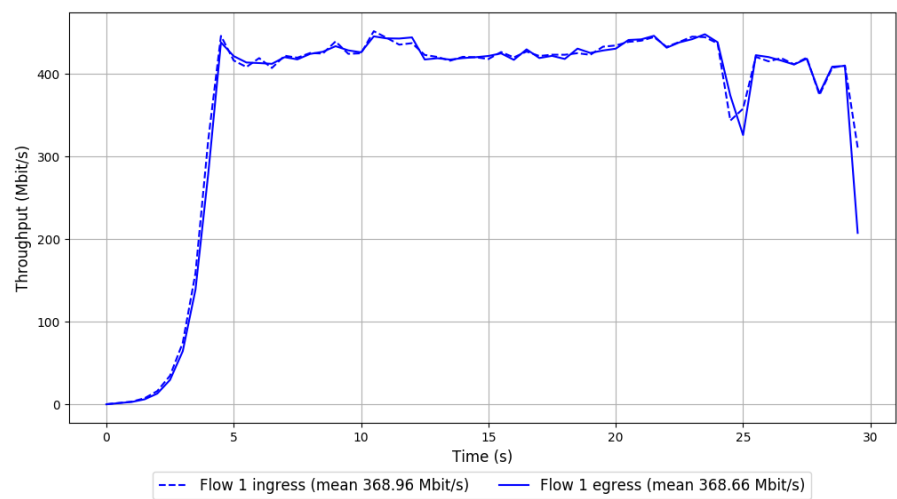
-- Flow 1:

Average throughput: 368.66 Mbit/s

95th percentile per-packet one-way delay: 98.568 ms

Loss rate: 0.83%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-04-10 06:05:43

End at: 2018-04-10 06:06:13

Below is generated by plot.py at 2018-04-10 10:40:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.63 Mbit/s

95th percentile per-packet one-way delay: 101.028 ms

Loss rate: 0.75%

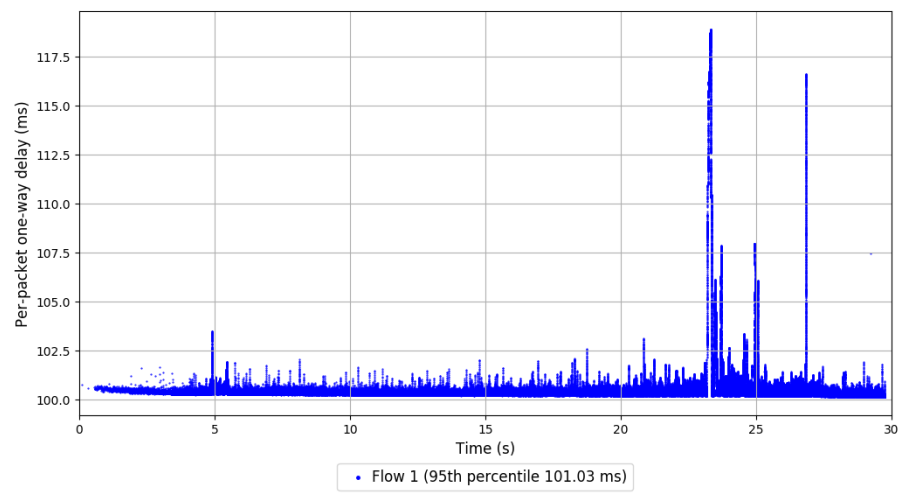
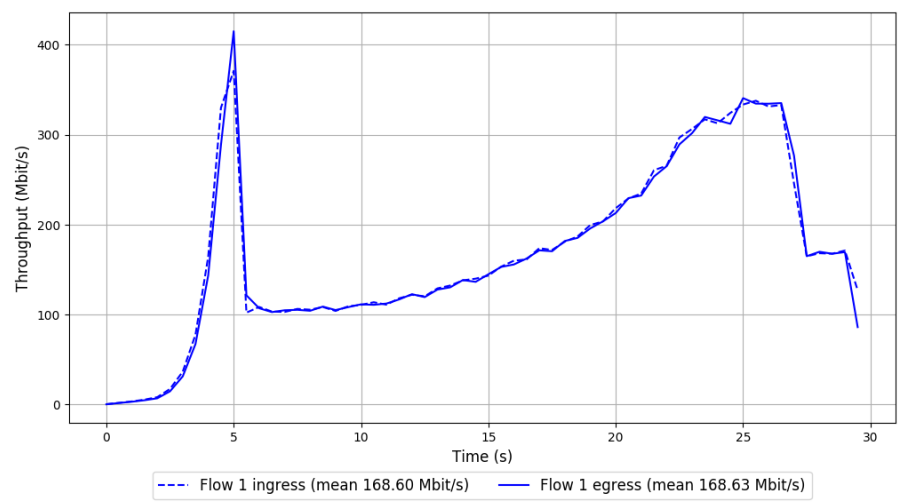
-- Flow 1:

Average throughput: 168.63 Mbit/s

95th percentile per-packet one-way delay: 101.028 ms

Loss rate: 0.75%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-04-10 06:21:03

End at: 2018-04-10 06:21:33

Below is generated by plot.py at 2018-04-10 10:41:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 339.79 Mbit/s

95th percentile per-packet one-way delay: 106.558 ms

Loss rate: 0.88%

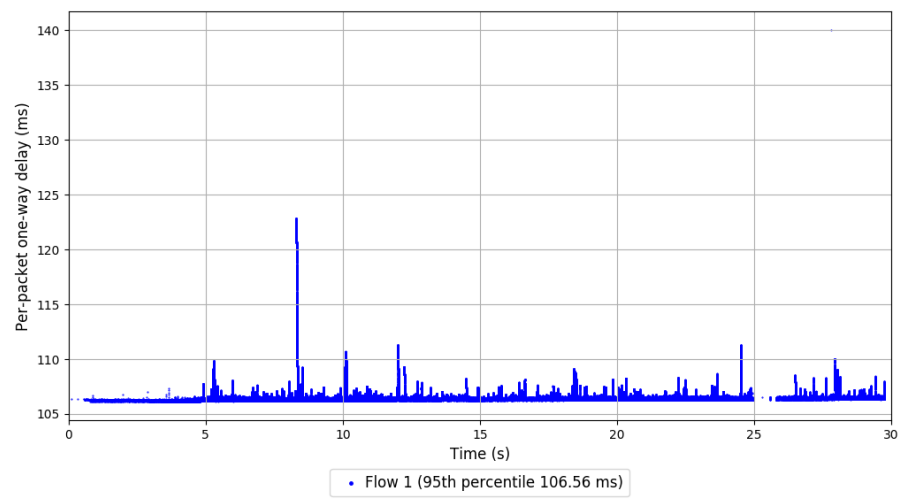
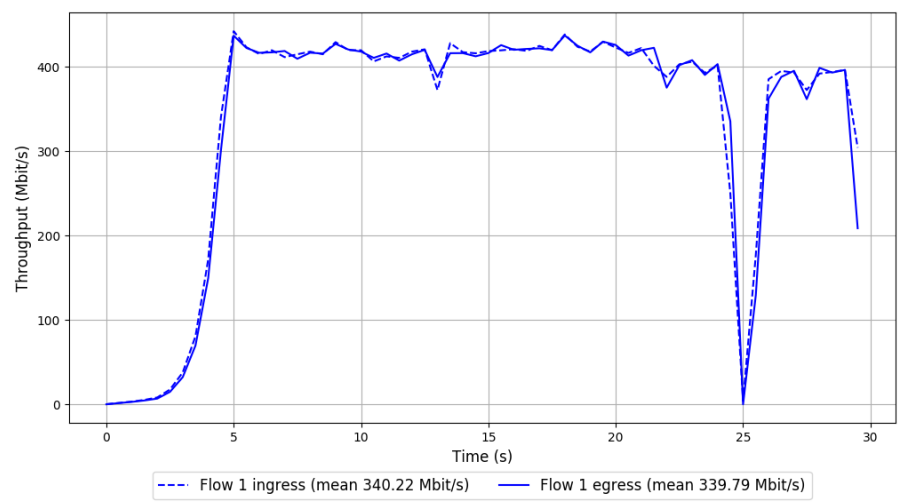
-- Flow 1:

Average throughput: 339.79 Mbit/s

95th percentile per-packet one-way delay: 106.558 ms

Loss rate: 0.88%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-04-10 06:36:14

End at: 2018-04-10 06:36:44

Below is generated by plot.py at 2018-04-10 10:41:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.63 Mbit/s

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

Loss rate: 0.00%

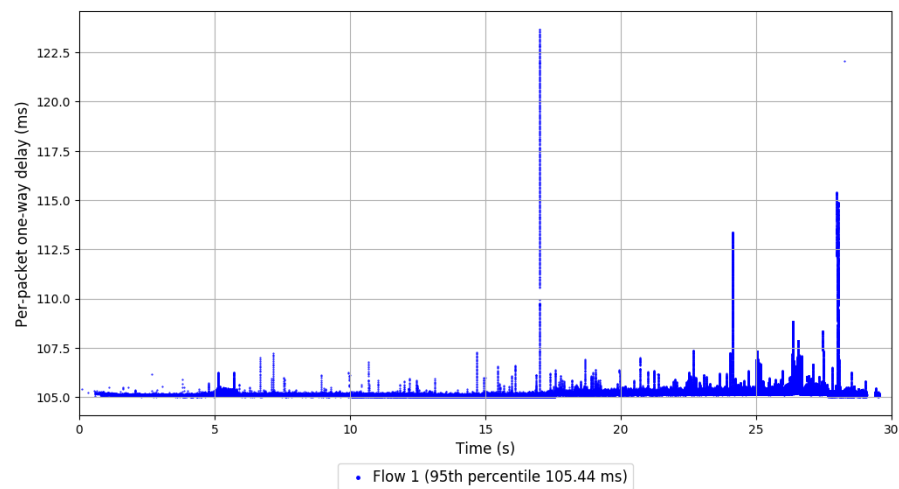
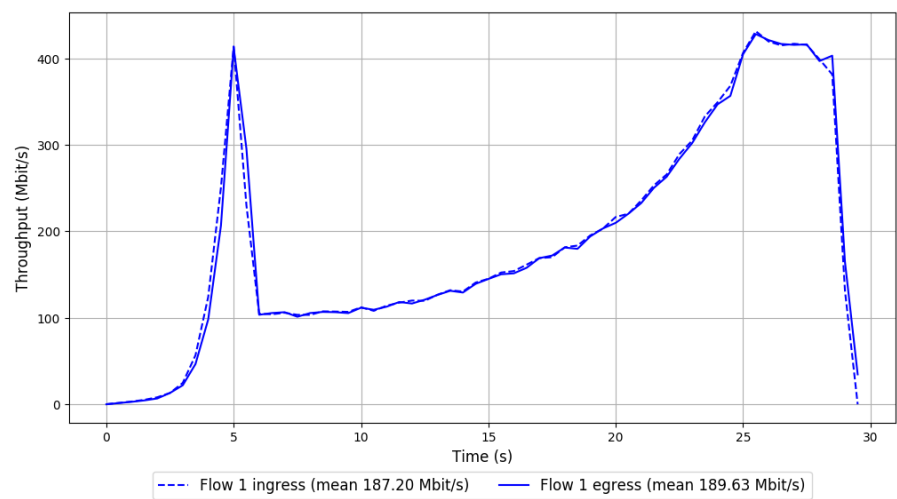
-- Flow 1:

Average throughput: 189.63 Mbit/s

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

Loss rate: 0.00%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-04-10 06:50:55

End at: 2018-04-10 06:51:25

Below is generated by plot.py at 2018-04-10 10:41:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.78 Mbit/s

95th percentile per-packet one-way delay: 109.318 ms

Loss rate: 0.00%

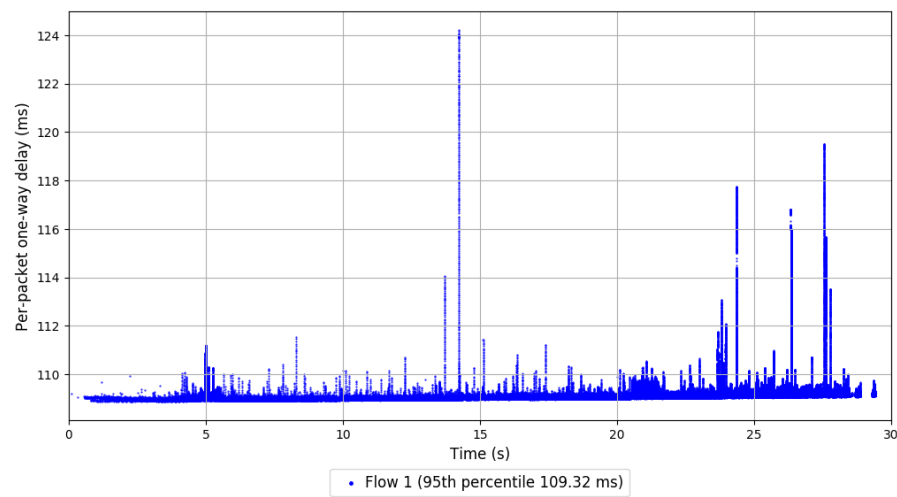
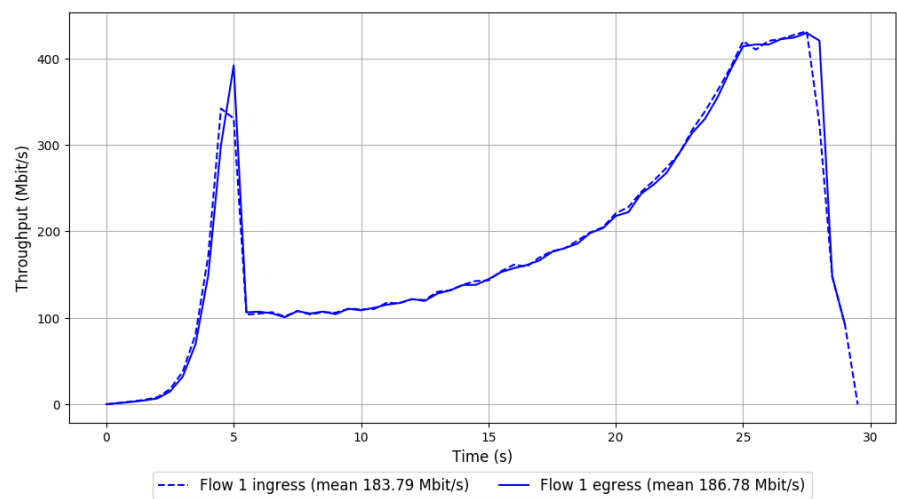
-- Flow 1:

Average throughput: 186.78 Mbit/s

95th percentile per-packet one-way delay: 109.318 ms

Loss rate: 0.00%

Run 10: Report of Vivace-loss — Data Link

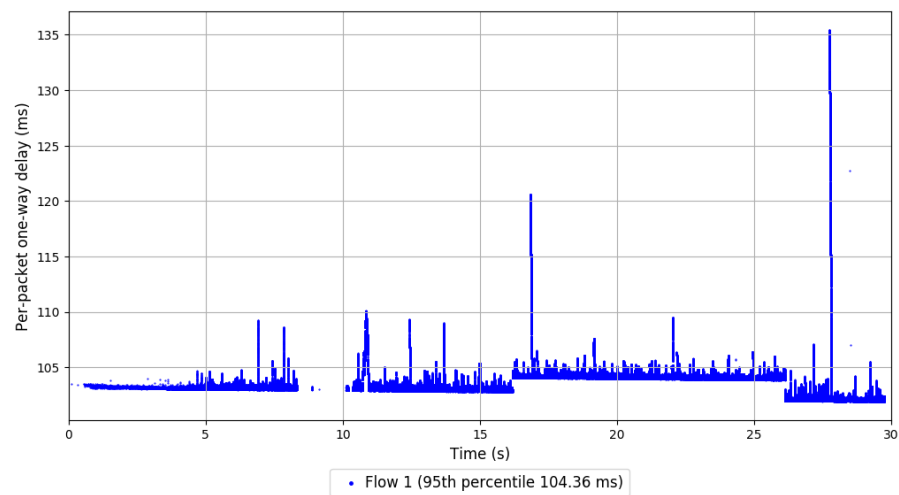
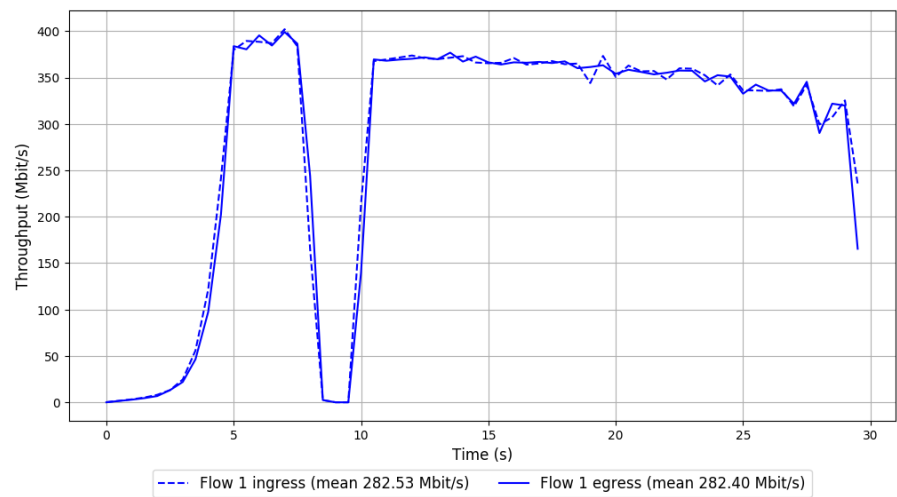


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-04-10 04:43:56
End at: 2018-04-10 04:44:26

# Below is generated by plot.py at 2018-04-10 10:41:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 282.40 Mbit/s
95th percentile per-packet one-way delay: 104.365 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 282.40 Mbit/s
95th percentile per-packet one-way delay: 104.365 ms
Loss rate: 0.80%
```

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-04-10 04:58:55

End at: 2018-04-10 04:59:25

Below is generated by plot.py at 2018-04-10 10:41:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.41 Mbit/s

95th percentile per-packet one-way delay: 100.758 ms

Loss rate: 0.96%

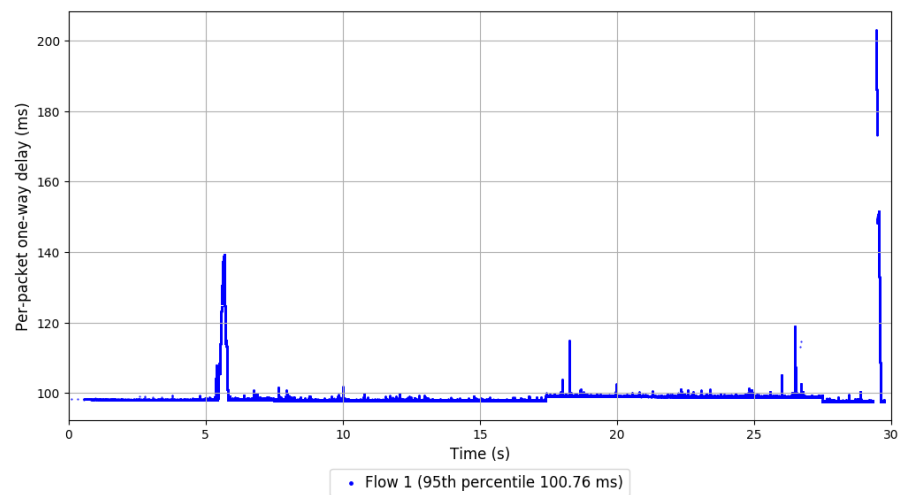
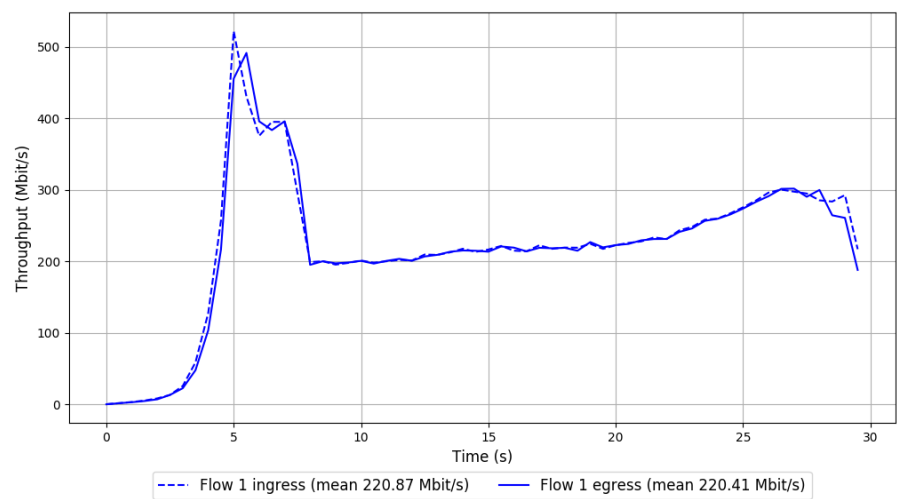
-- Flow 1:

Average throughput: 220.41 Mbit/s

95th percentile per-packet one-way delay: 100.758 ms

Loss rate: 0.96%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-04-10 05:14:04

End at: 2018-04-10 05:14:34

Below is generated by plot.py at 2018-04-10 10:41:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 273.46 Mbit/s

95th percentile per-packet one-way delay: 98.215 ms

Loss rate: 1.09%

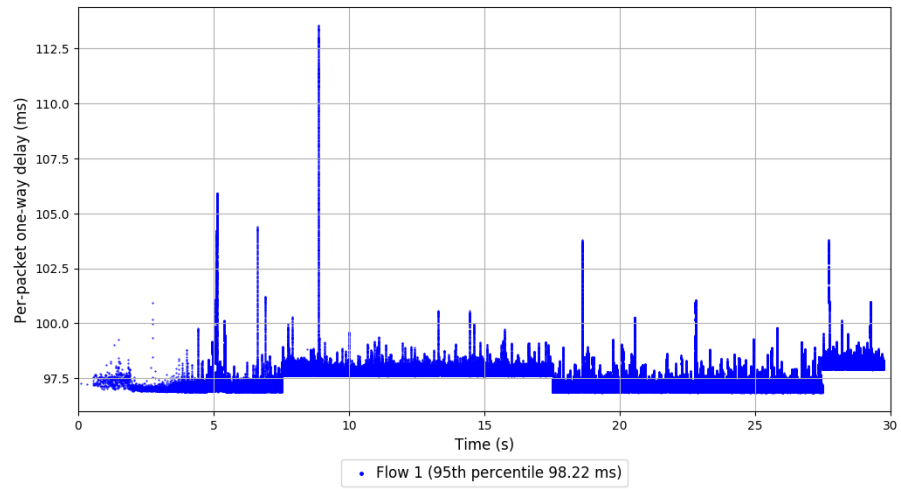
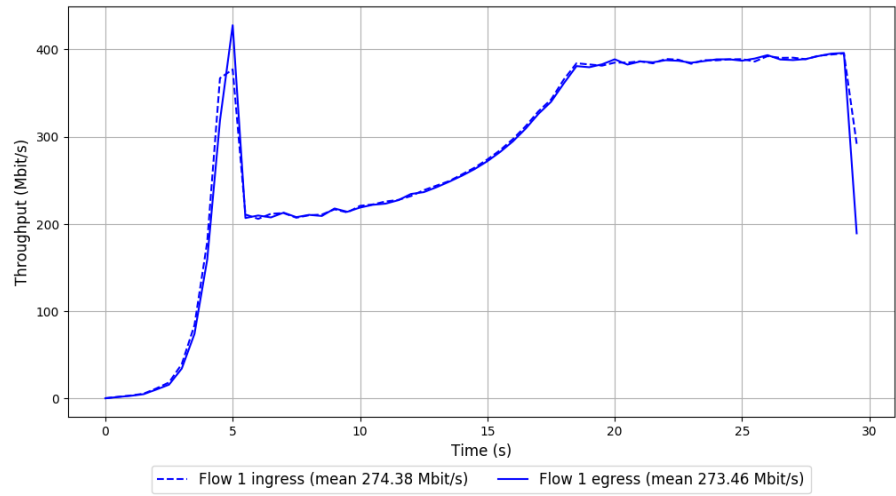
-- Flow 1:

Average throughput: 273.46 Mbit/s

95th percentile per-packet one-way delay: 98.215 ms

Loss rate: 1.09%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-04-10 05:29:07

End at: 2018-04-10 05:29:37

Below is generated by plot.py at 2018-04-10 10:41:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 236.80 Mbit/s

95th percentile per-packet one-way delay: 91.322 ms

Loss rate: 0.97%

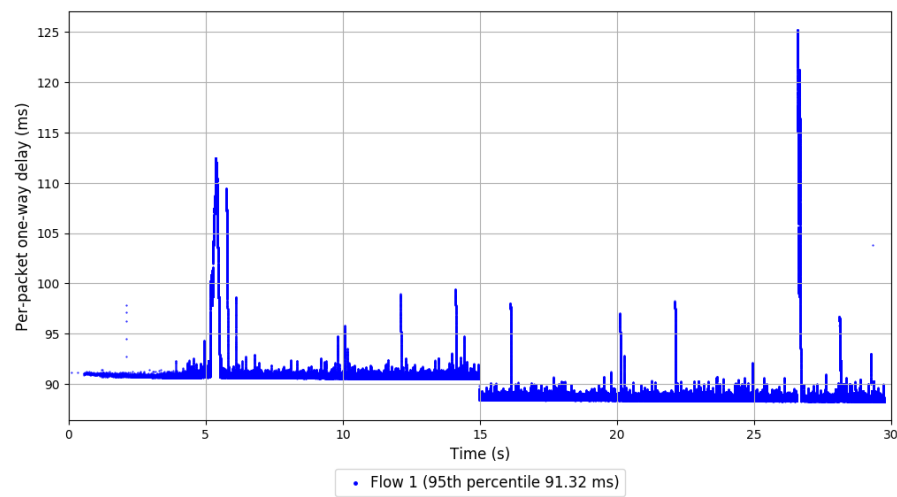
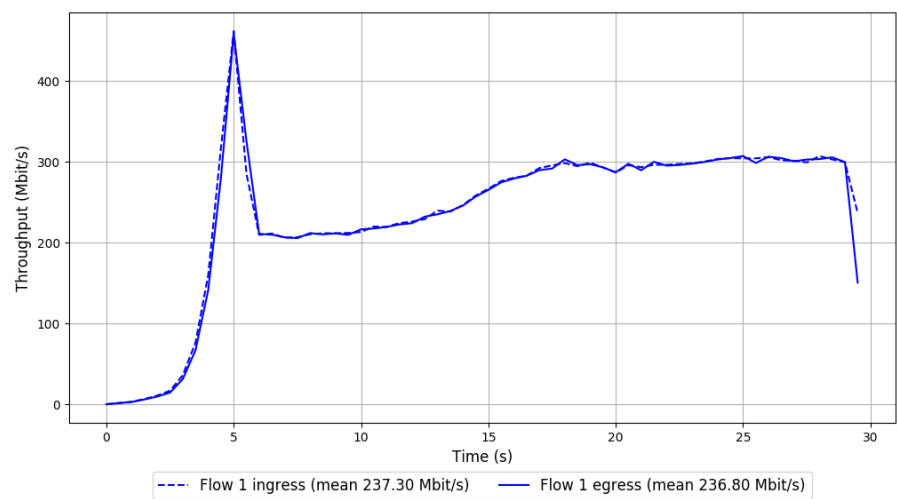
-- Flow 1:

Average throughput: 236.80 Mbit/s

95th percentile per-packet one-way delay: 91.322 ms

Loss rate: 0.97%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-04-10 05:44:07

End at: 2018-04-10 05:44:37

Below is generated by plot.py at 2018-04-10 10:43:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 302.14 Mbit/s

95th percentile per-packet one-way delay: 129.995 ms

Loss rate: 0.96%

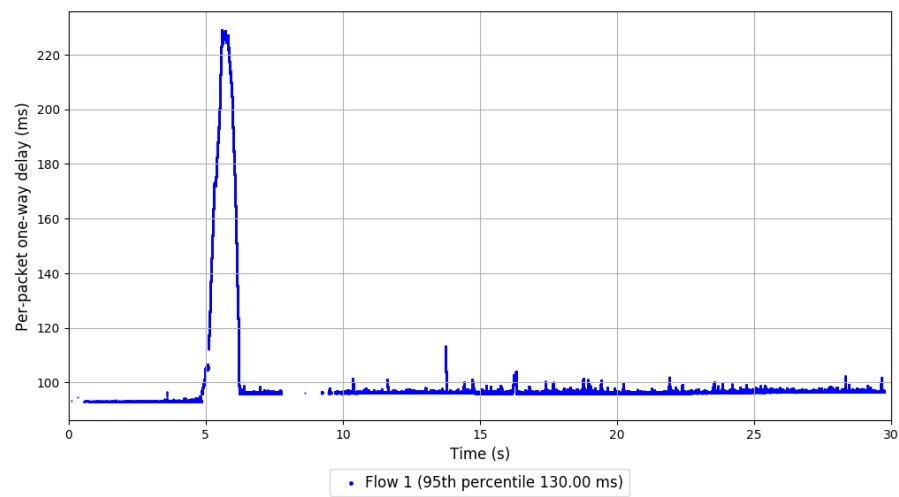
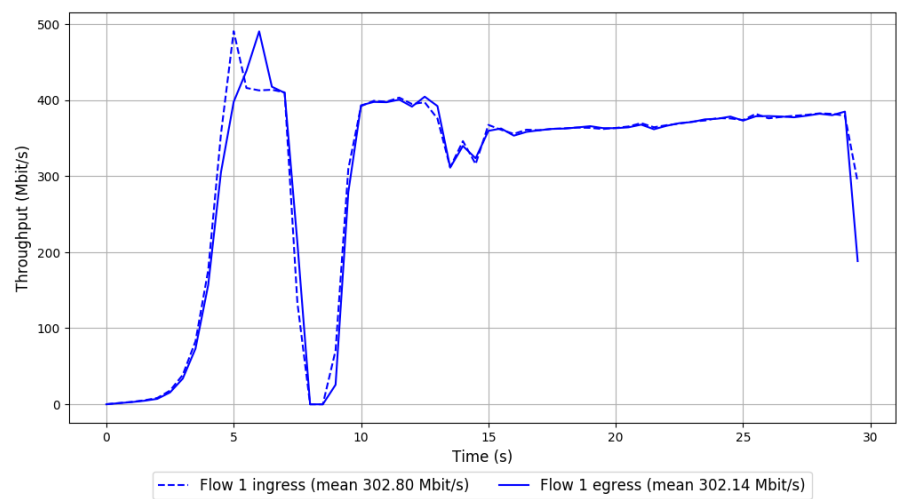
-- Flow 1:

Average throughput: 302.14 Mbit/s

95th percentile per-packet one-way delay: 129.995 ms

Loss rate: 0.96%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-04-10 05:59:37

End at: 2018-04-10 06:00:07

Below is generated by plot.py at 2018-04-10 10:43:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 268.74 Mbit/s

95th percentile per-packet one-way delay: 102.189 ms

Loss rate: 1.10%

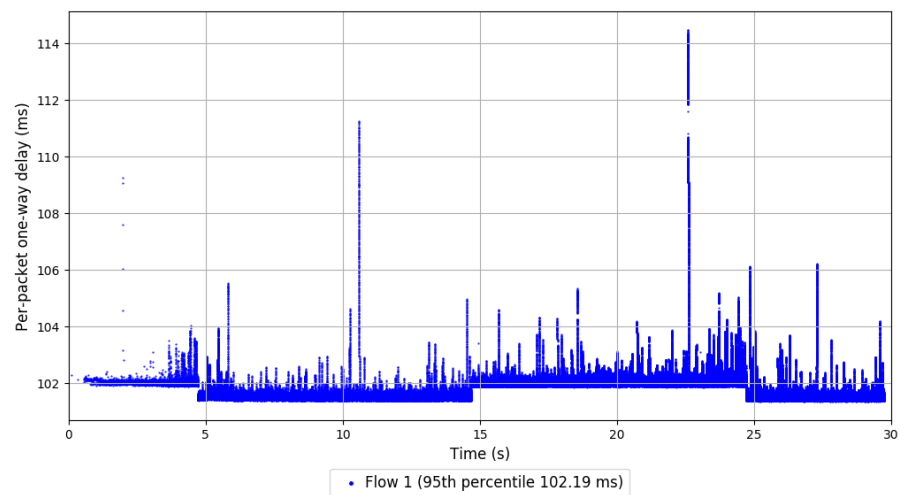
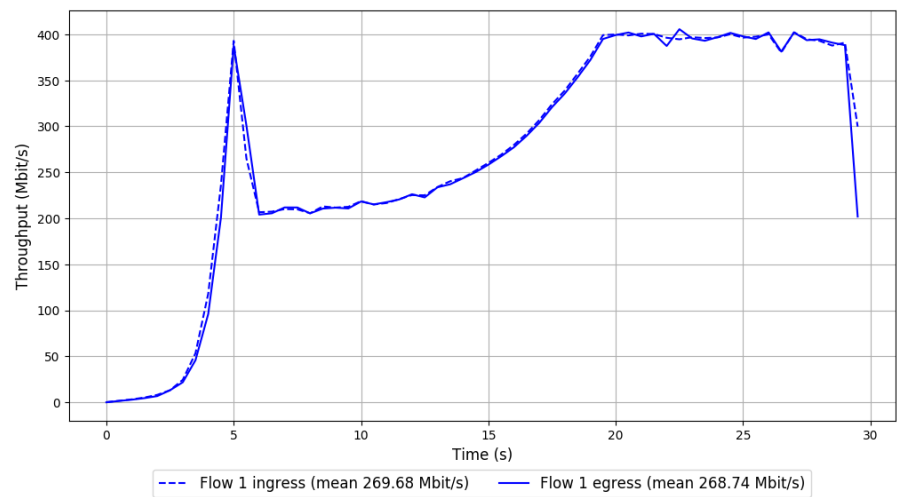
-- Flow 1:

Average throughput: 268.74 Mbit/s

95th percentile per-packet one-way delay: 102.189 ms

Loss rate: 1.10%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-04-10 06:14:54

End at: 2018-04-10 06:15:24

Below is generated by plot.py at 2018-04-10 10:43:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 245.12 Mbit/s

95th percentile per-packet one-way delay: 101.747 ms

Loss rate: 1.04%

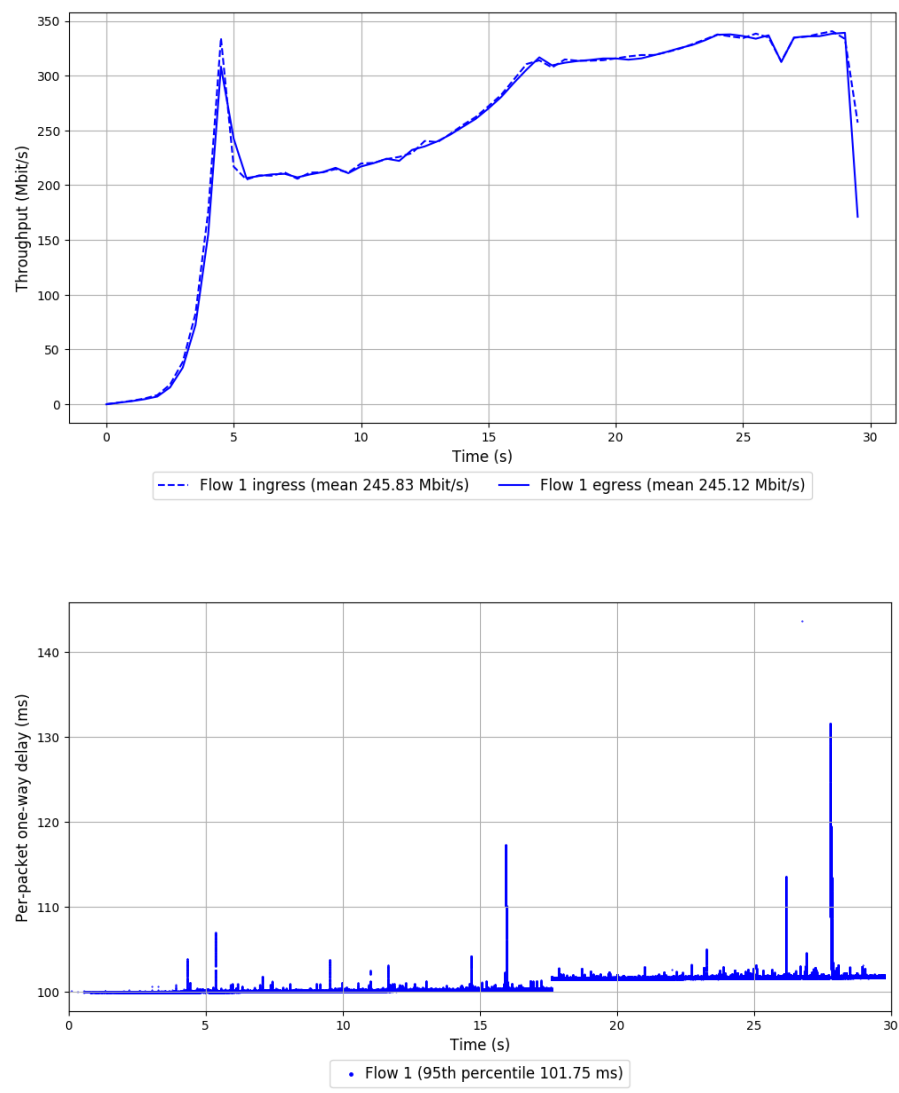
-- Flow 1:

Average throughput: 245.12 Mbit/s

95th percentile per-packet one-way delay: 101.747 ms

Loss rate: 1.04%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-04-10 06:30:03

End at: 2018-04-10 06:30:33

Below is generated by plot.py at 2018-04-10 10:44:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 323.99 Mbit/s

95th percentile per-packet one-way delay: 107.350 ms

Loss rate: 0.82%

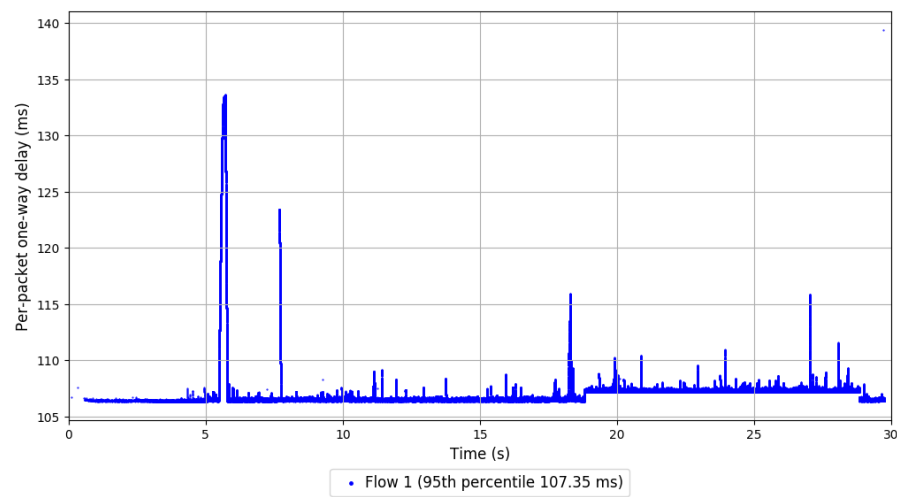
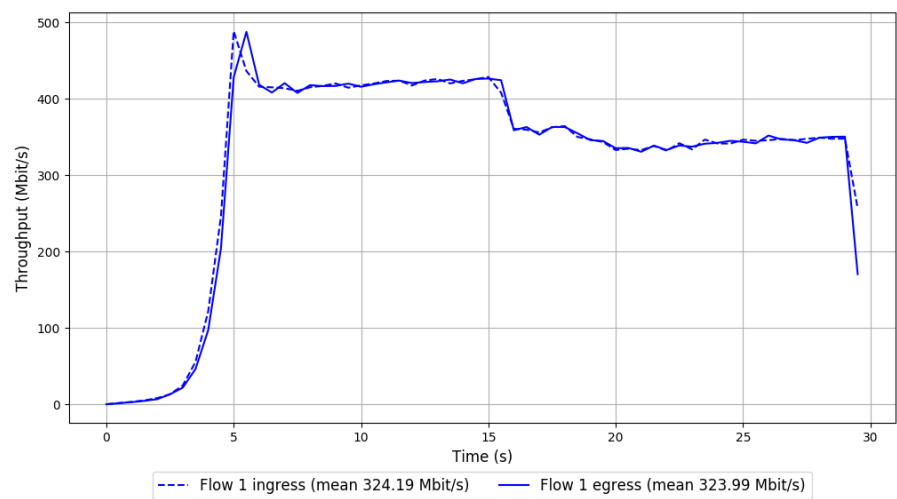
-- Flow 1:

Average throughput: 323.99 Mbit/s

95th percentile per-packet one-way delay: 107.350 ms

Loss rate: 0.82%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-04-10 06:44:50

End at: 2018-04-10 06:45:20

Below is generated by plot.py at 2018-04-10 10:44:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 350.51 Mbit/s

95th percentile per-packet one-way delay: 104.488 ms

Loss rate: 0.89%

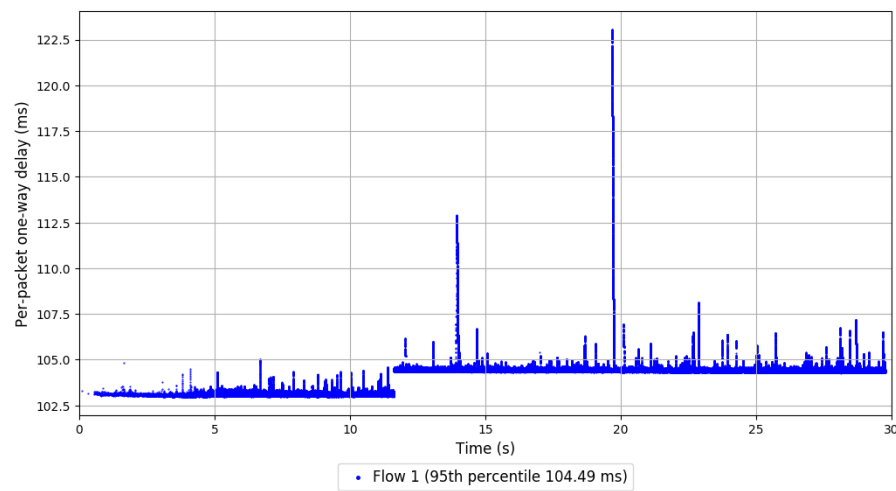
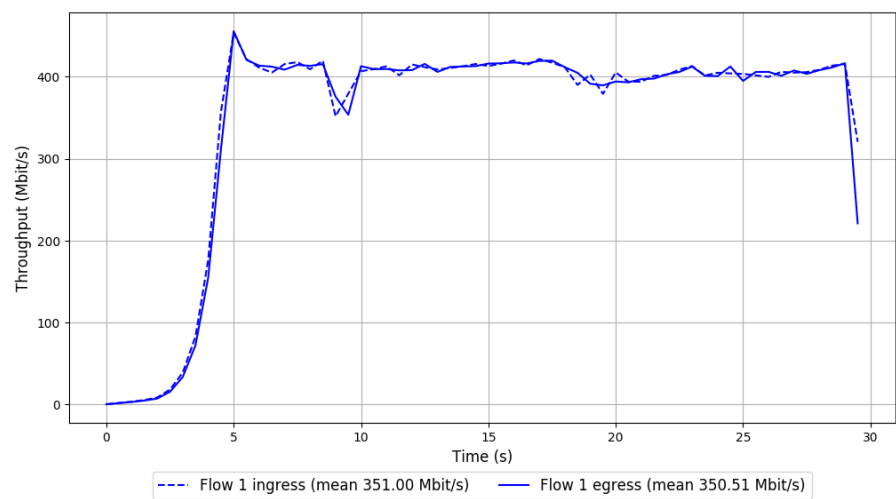
-- Flow 1:

Average throughput: 350.51 Mbit/s

95th percentile per-packet one-way delay: 104.488 ms

Loss rate: 0.89%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-04-10 06:59:54

End at: 2018-04-10 07:00:24

Below is generated by plot.py at 2018-04-10 10:44:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.93 Mbit/s

95th percentile per-packet one-way delay: 110.828 ms

Loss rate: 1.34%

-- Flow 1:

Average throughput: 185.93 Mbit/s

95th percentile per-packet one-way delay: 110.828 ms

Loss rate: 1.34%

Run 10: Report of Vivace-LTE — Data Link

