

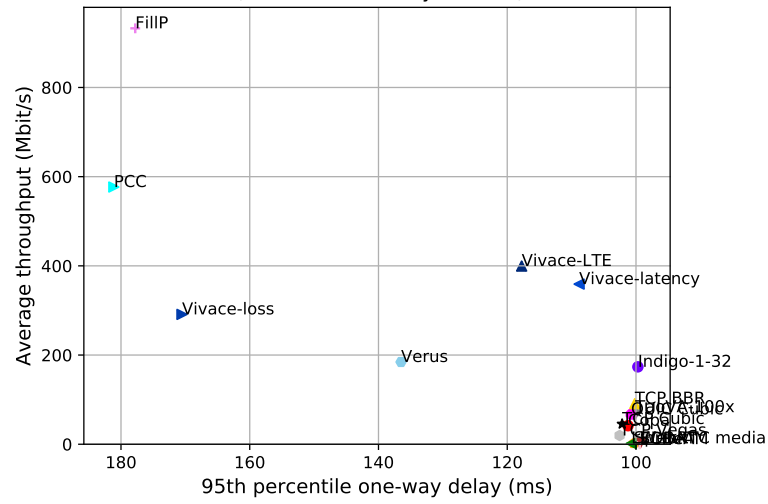
Pantheon Report

Generated at 2018-02-13 01:50:56 (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**).

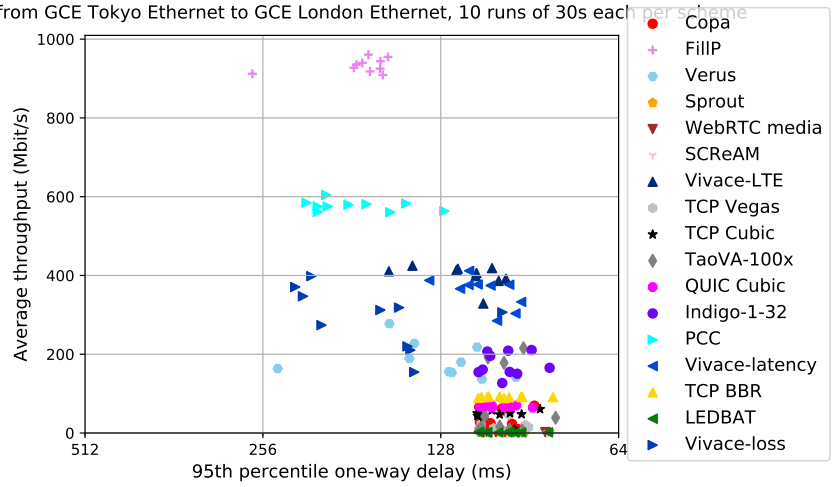
Git summary:

```
branch: master @ 2efdad57c2c56a9458b0d01ff33345e11732665
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	91.08	100.18	0.96
TCP Cubic	10	45.43	102.15	1.44
LEDBAT	10	1.73	100.74	1.16
PCC	10	576.74	181.10	1.70
QUIC Cubic	9	66.97	100.78	1.01
SCReAM	10	0.20	99.41	0.73
WebRTC media	10	2.17	99.35	0.88
Sprout	10	2.14	100.34	1.61
TaoVA-100x	10	71.90	100.13	1.00
TCP Vegas	10	19.57	102.55	1.61
Verus	10	184.41	136.50	1.49
Copa	10	41.53	101.24	0.83
FillP	10	932.62	177.79	2.27
Indigo-1-32	10	173.56	99.71	0.85
Vivace-latency	10	359.08	108.84	0.99
Vivace-loss	10	291.18	170.52	1.72
Vivace-LTE	10	399.59	117.76	0.97

Run 1: Statistics of TCP BBR

Start at: 2018-02-12 19:24:46

End at: 2018-02-12 19:25:16

Below is generated by plot.py at 2018-02-13 00:39:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.65 Mbit/s

95th percentile per-packet one-way delay: 101.761 ms

Loss rate: 0.84%

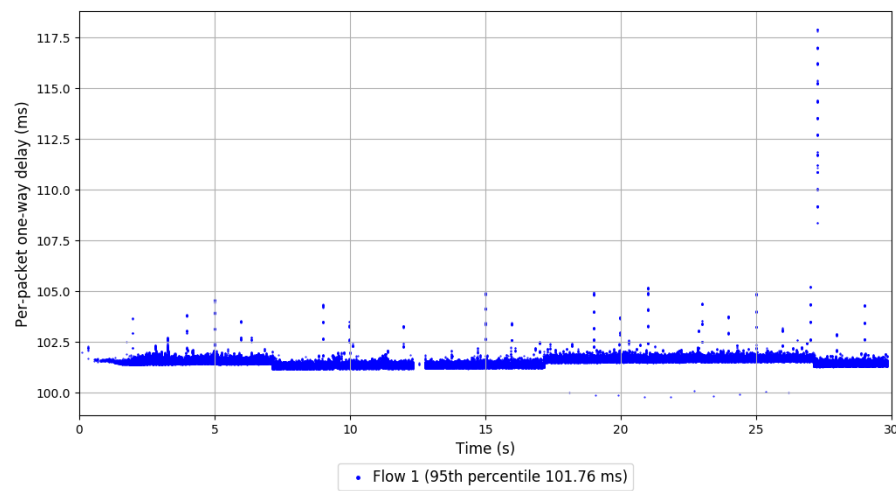
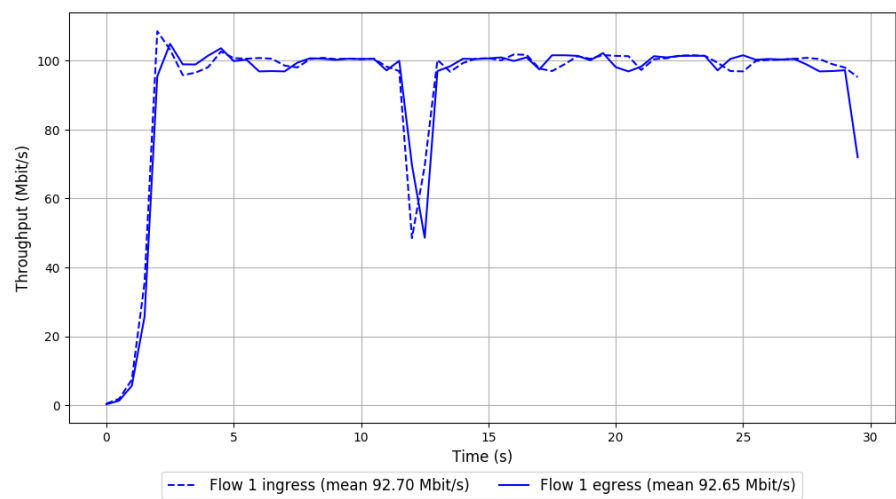
-- Flow 1:

Average throughput: 92.65 Mbit/s

95th percentile per-packet one-way delay: 101.761 ms

Loss rate: 0.84%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-12 19:40:19

End at: 2018-02-12 19:40:49

Below is generated by plot.py at 2018-02-13 00:39:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.22 Mbit/s

95th percentile per-packet one-way delay: 93.170 ms

Loss rate: 1.11%

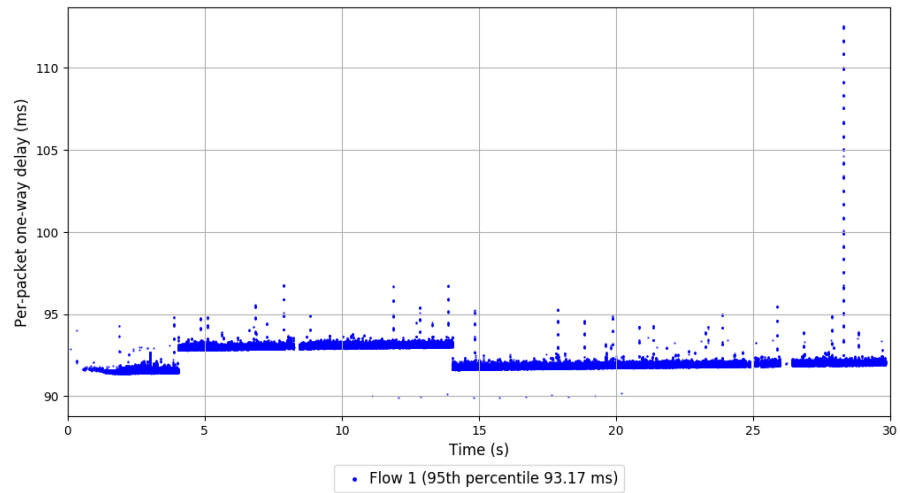
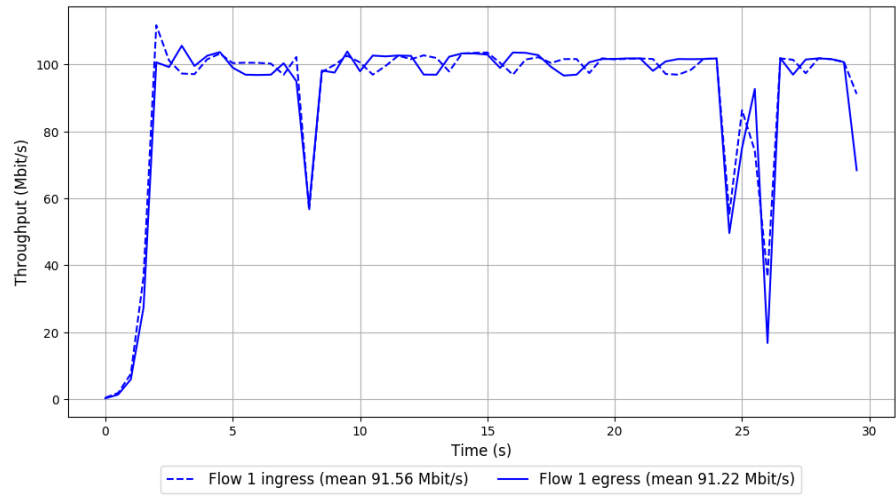
-- Flow 1:

Average throughput: 91.22 Mbit/s

95th percentile per-packet one-way delay: 93.170 ms

Loss rate: 1.11%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-12 19:56:02

End at: 2018-02-12 19:56:32

Below is generated by plot.py at 2018-02-13 00:39:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.22 Mbit/s

95th percentile per-packet one-way delay: 93.573 ms

Loss rate: 0.92%

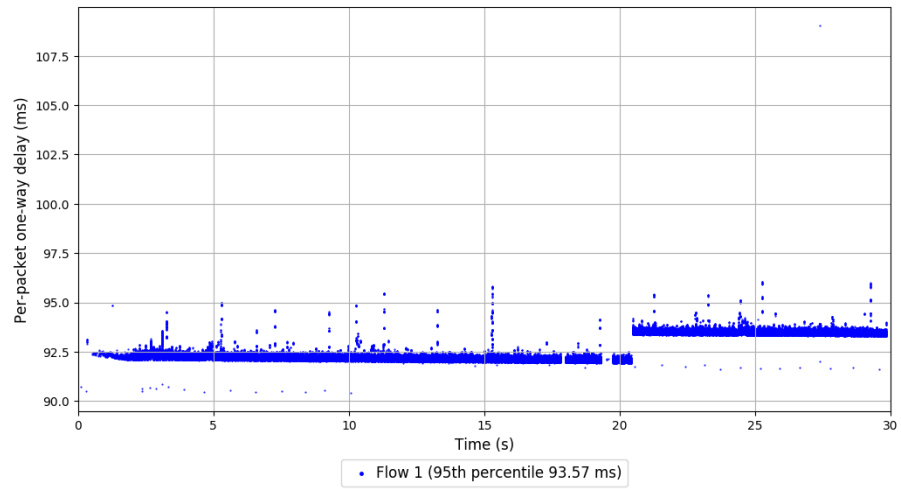
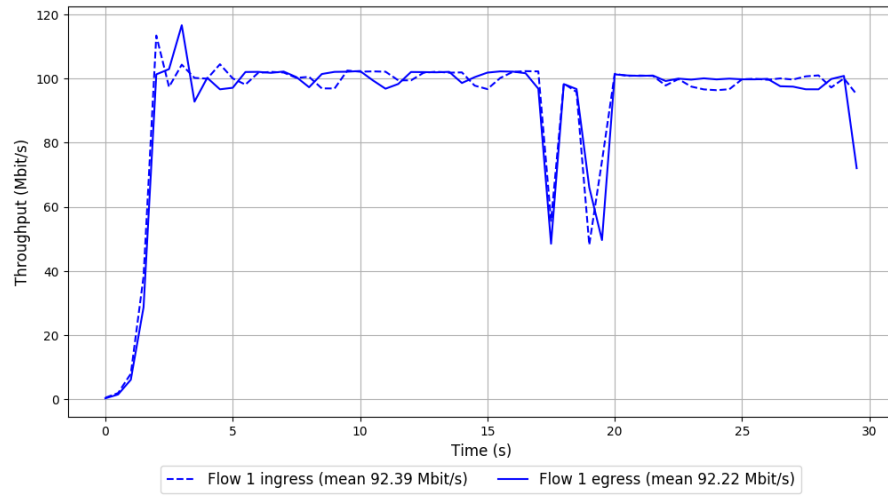
-- Flow 1:

Average throughput: 92.22 Mbit/s

95th percentile per-packet one-way delay: 93.573 ms

Loss rate: 0.92%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-12 20:11:14

End at: 2018-02-12 20:11:44

Below is generated by plot.py at 2018-02-13 00:39:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.06 Mbit/s

95th percentile per-packet one-way delay: 82.648 ms

Loss rate: 0.79%

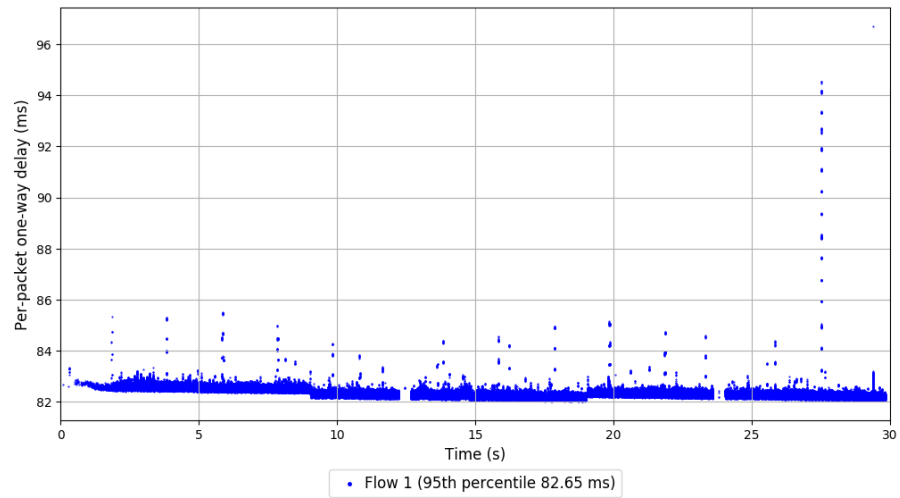
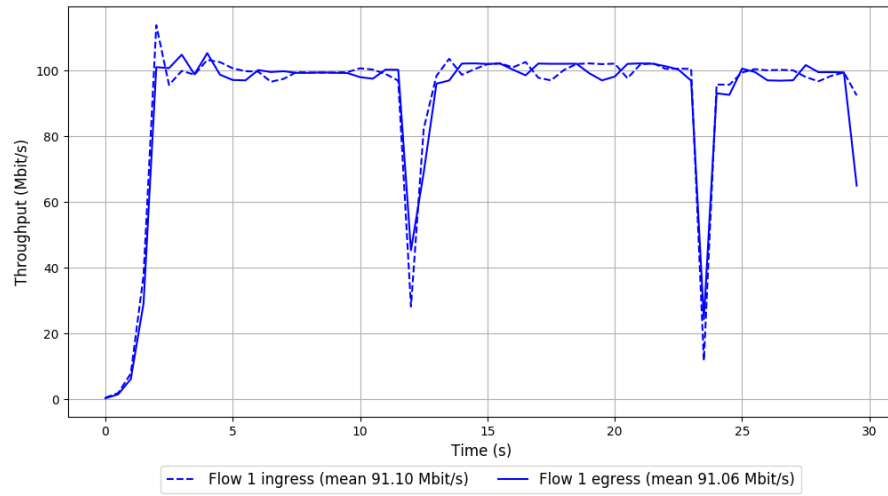
-- Flow 1:

Average throughput: 91.06 Mbit/s

95th percentile per-packet one-way delay: 82.648 ms

Loss rate: 0.79%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-12 20:26:37

End at: 2018-02-12 20:27:07

Below is generated by plot.py at 2018-02-13 00:39:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.59 Mbit/s

95th percentile per-packet one-way delay: 99.956 ms

Loss rate: 1.40%

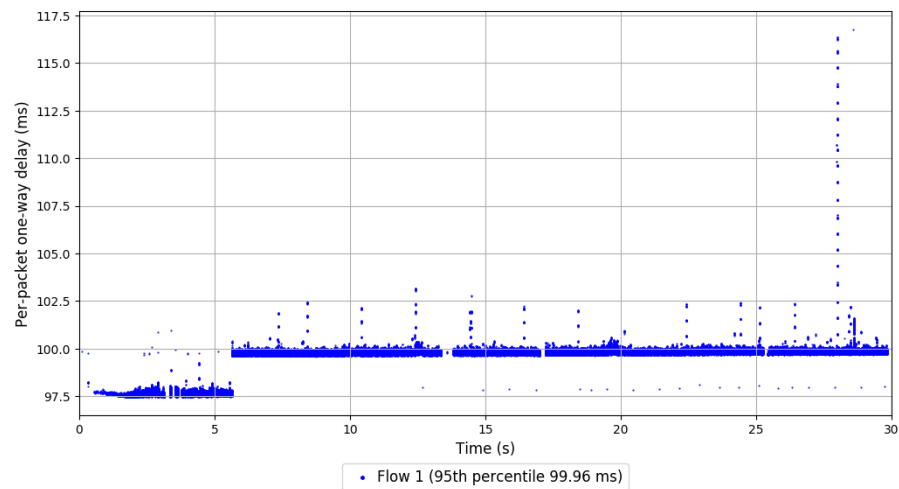
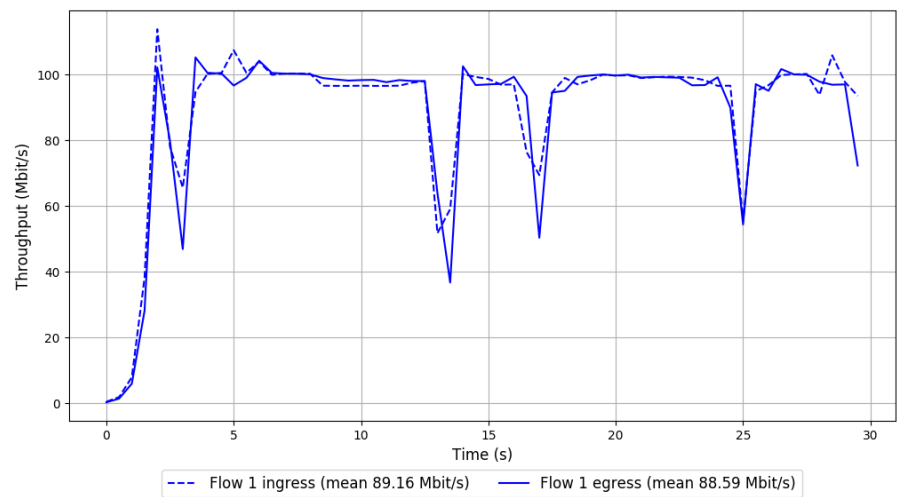
-- Flow 1:

Average throughput: 88.59 Mbit/s

95th percentile per-packet one-way delay: 99.956 ms

Loss rate: 1.40%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-12 20:42:25

End at: 2018-02-12 20:42:55

Below is generated by plot.py at 2018-02-13 00:39:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.48 Mbit/s

95th percentile per-packet one-way delay: 98.071 ms

Loss rate: 0.93%

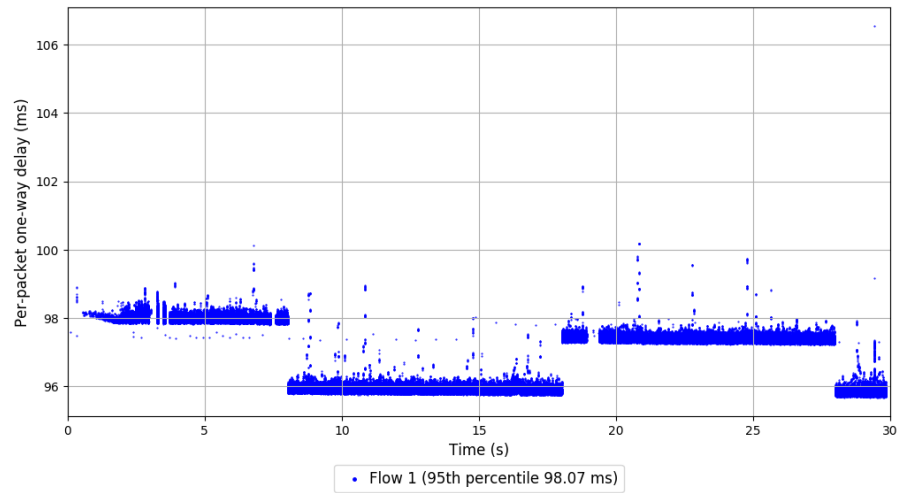
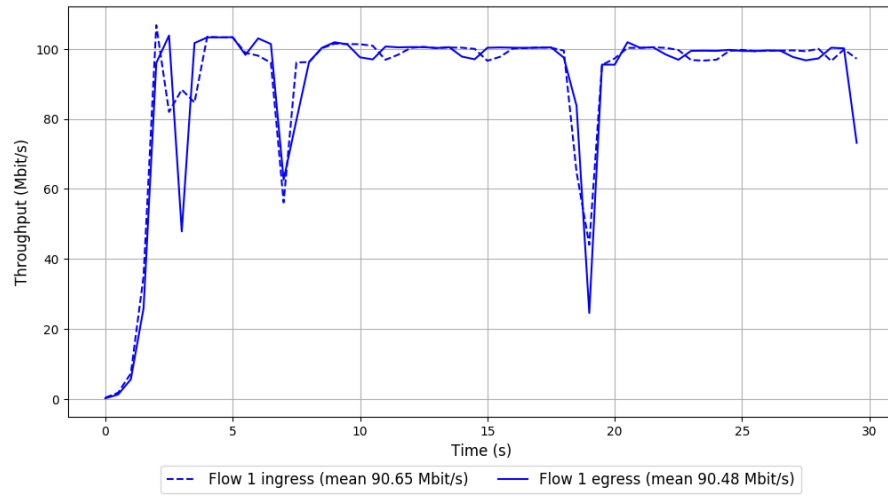
-- Flow 1:

Average throughput: 90.48 Mbit/s

95th percentile per-packet one-way delay: 98.071 ms

Loss rate: 0.93%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-12 20:57:58

End at: 2018-02-12 20:58:29

Below is generated by plot.py at 2018-02-13 00:39:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.73 Mbit/s

95th percentile per-packet one-way delay: 106.208 ms

Loss rate: 0.87%

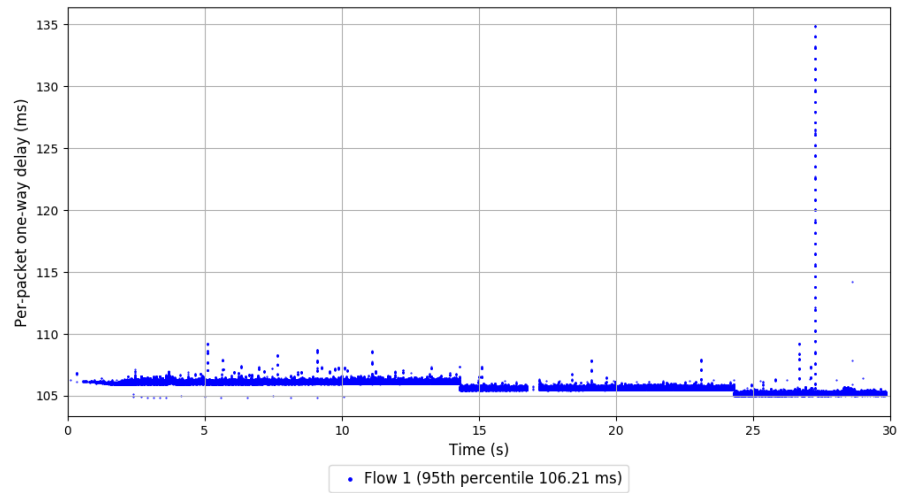
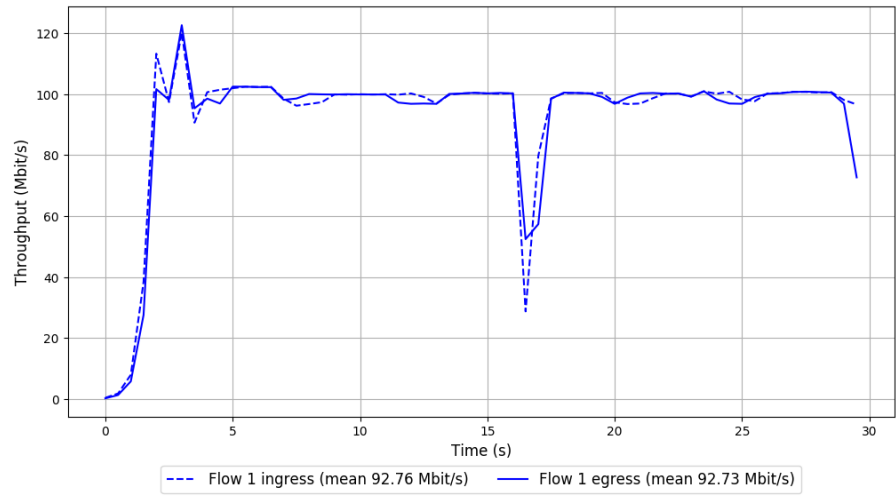
-- Flow 1:

Average throughput: 92.73 Mbit/s

95th percentile per-packet one-way delay: 106.208 ms

Loss rate: 0.87%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-12 21:13:45

End at: 2018-02-12 21:14:15

Below is generated by plot.py at 2018-02-13 00:39:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.56 Mbit/s

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

Loss rate: 0.77%

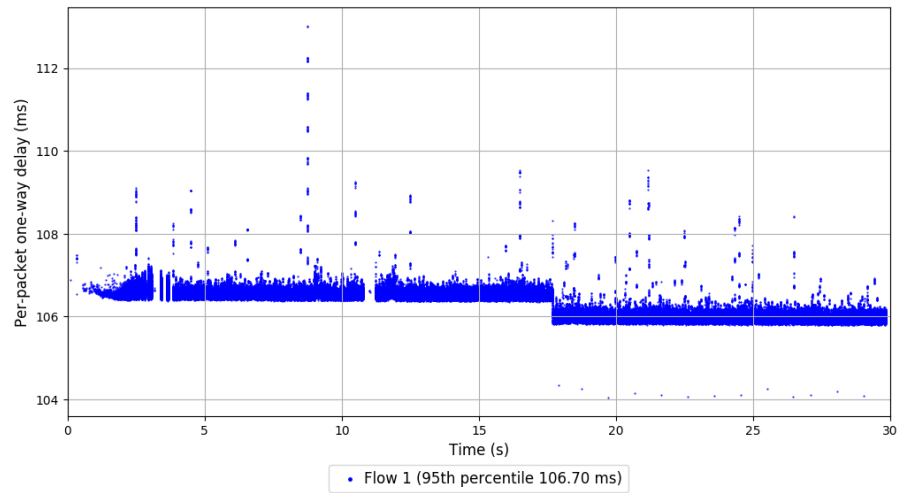
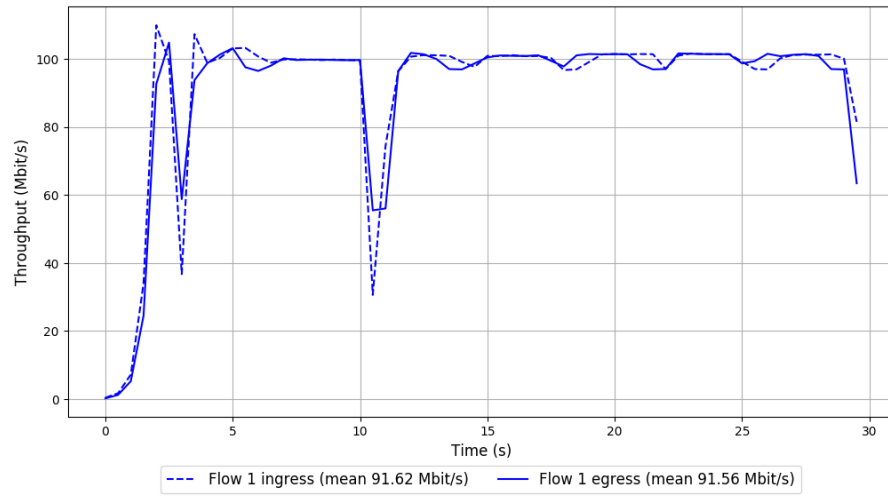
-- Flow 1:

Average throughput: 91.56 Mbit/s

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

Loss rate: 0.77%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-12 21:29:07

End at: 2018-02-12 21:29:37

Below is generated by plot.py at 2018-02-13 00:40:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.97 Mbit/s

95th percentile per-packet one-way delay: 109.233 ms

Loss rate: 0.95%

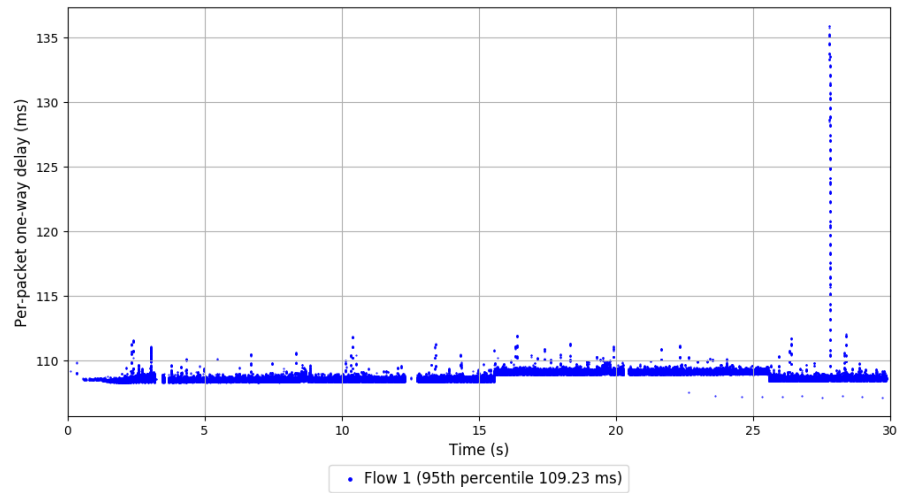
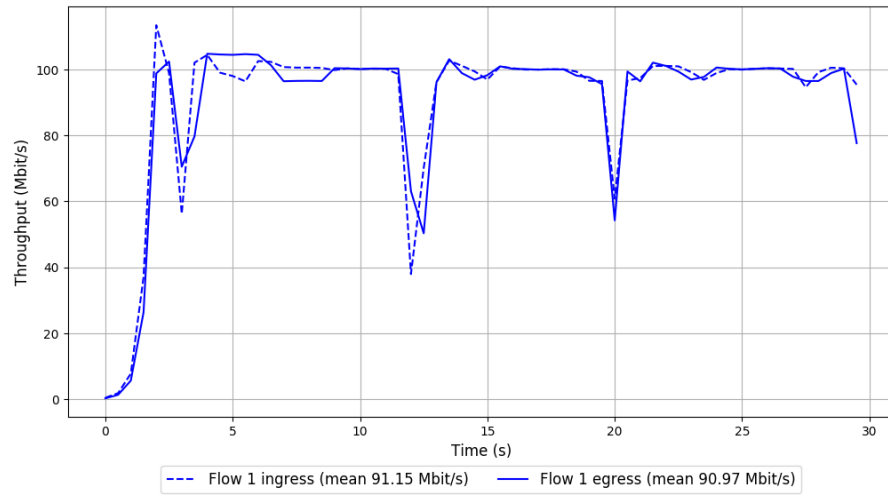
-- Flow 1:

Average throughput: 90.97 Mbit/s

95th percentile per-packet one-way delay: 109.233 ms

Loss rate: 0.95%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-12 21:44:44

End at: 2018-02-12 21:45:14

Below is generated by plot.py at 2018-02-13 00:40:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.30 Mbit/s

95th percentile per-packet one-way delay: 110.526 ms

Loss rate: 1.00%

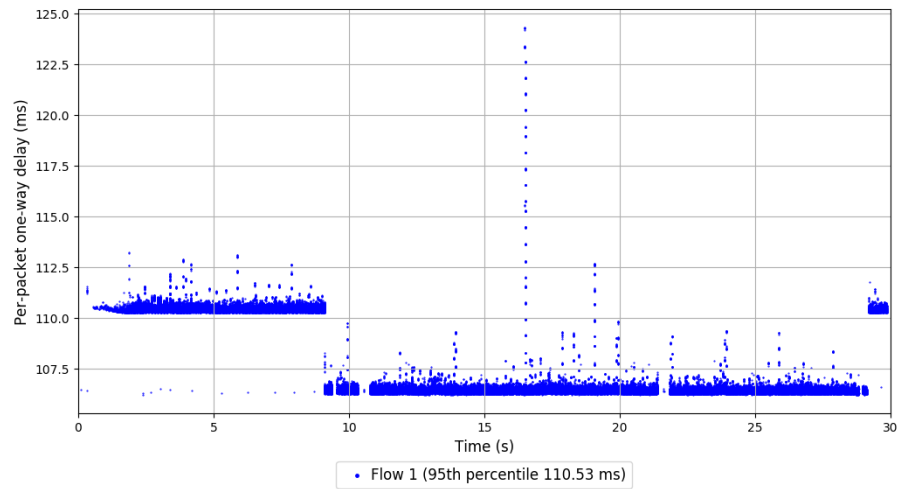
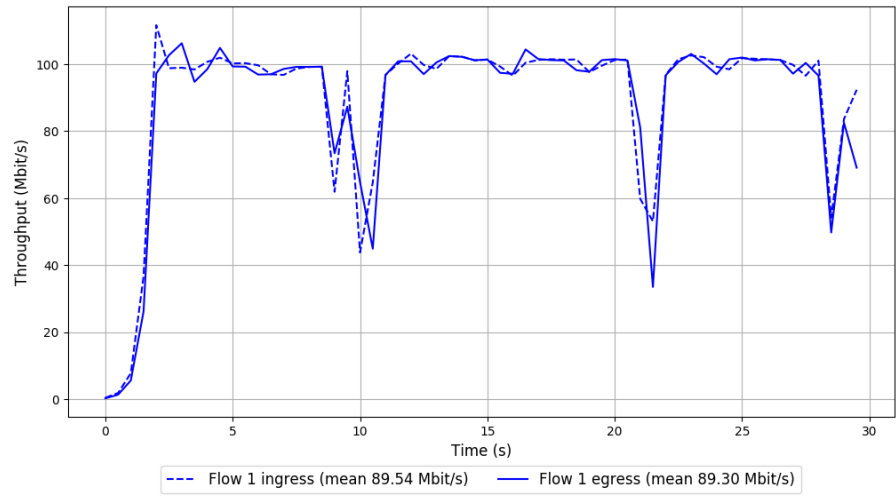
-- Flow 1:

Average throughput: 89.30 Mbit/s

95th percentile per-packet one-way delay: 110.526 ms

Loss rate: 1.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-12 19:27:47

End at: 2018-02-12 19:28:17

Below is generated by plot.py at 2018-02-13 00:40:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.58 Mbit/s

95th percentile per-packet one-way delay: 104.892 ms

Loss rate: 0.92%

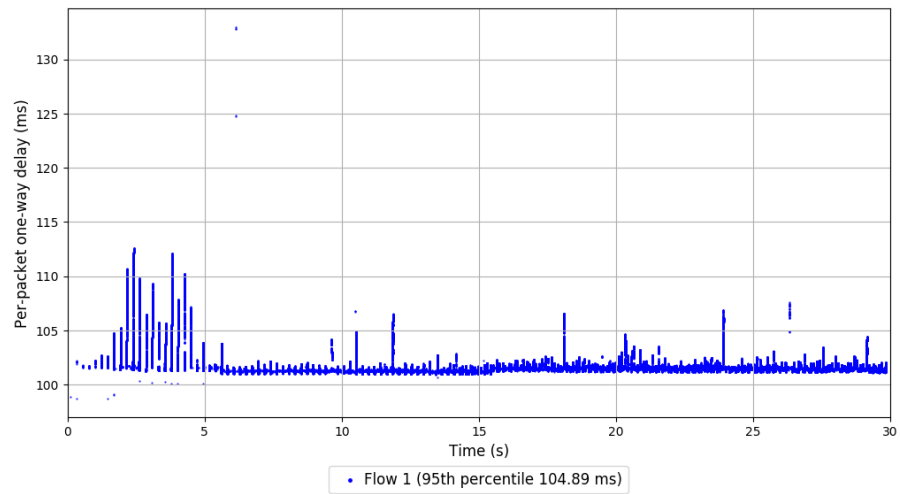
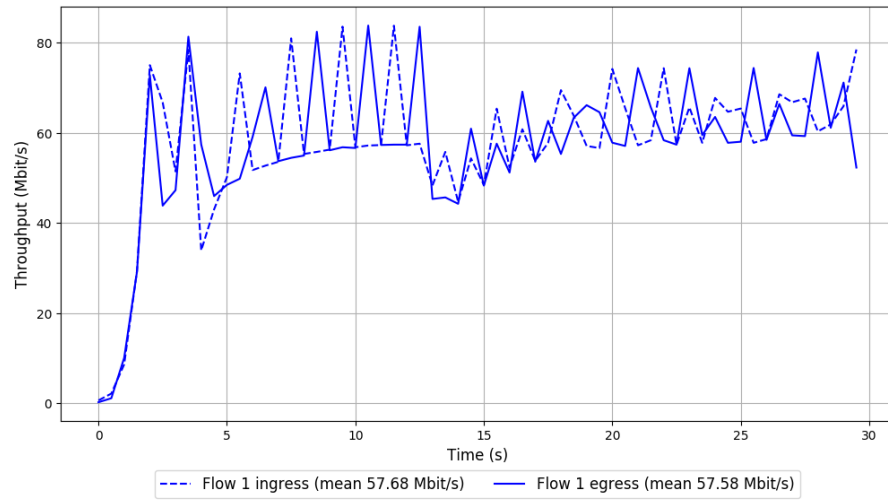
-- Flow 1:

Average throughput: 57.58 Mbit/s

95th percentile per-packet one-way delay: 104.892 ms

Loss rate: 0.92%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-12 19:43:39

End at: 2018-02-12 19:44:09

Below is generated by plot.py at 2018-02-13 00:40:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.32 Mbit/s

95th percentile per-packet one-way delay: 96.134 ms

Loss rate: 2.42%

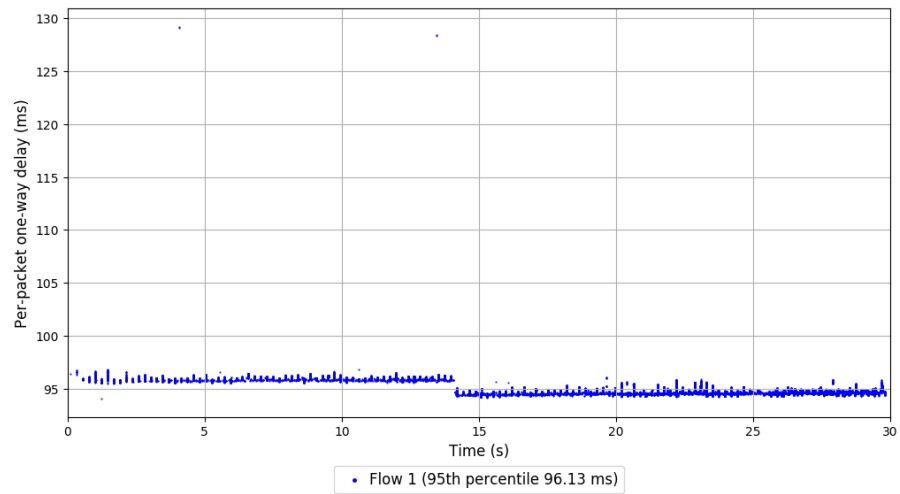
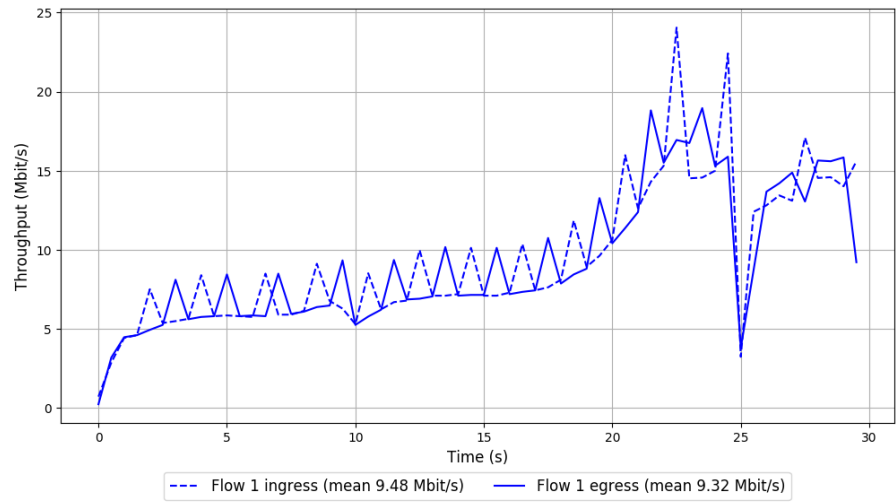
-- Flow 1:

Average throughput: 9.32 Mbit/s

95th percentile per-packet one-way delay: 96.134 ms

Loss rate: 2.42%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-12 19:59:04

End at: 2018-02-12 19:59:34

Below is generated by plot.py at 2018-02-13 00:40:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.78 Mbit/s

95th percentile per-packet one-way delay: 93.412 ms

Loss rate: 2.34%

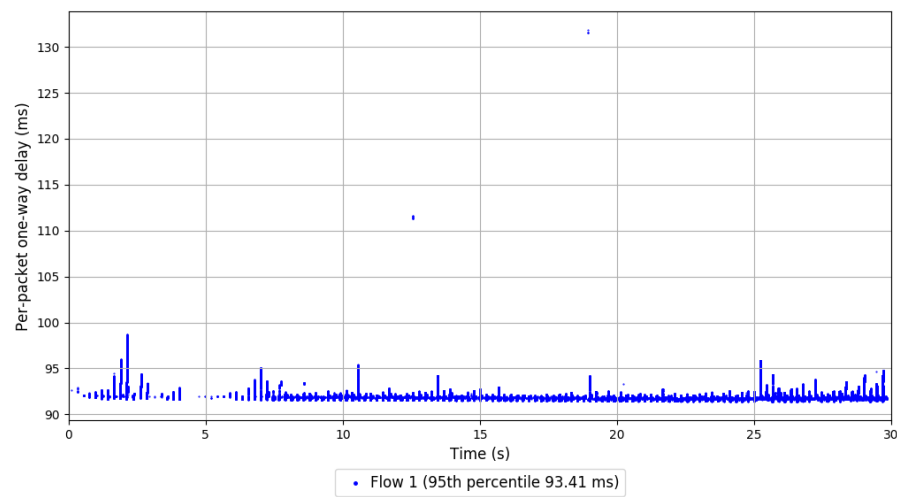
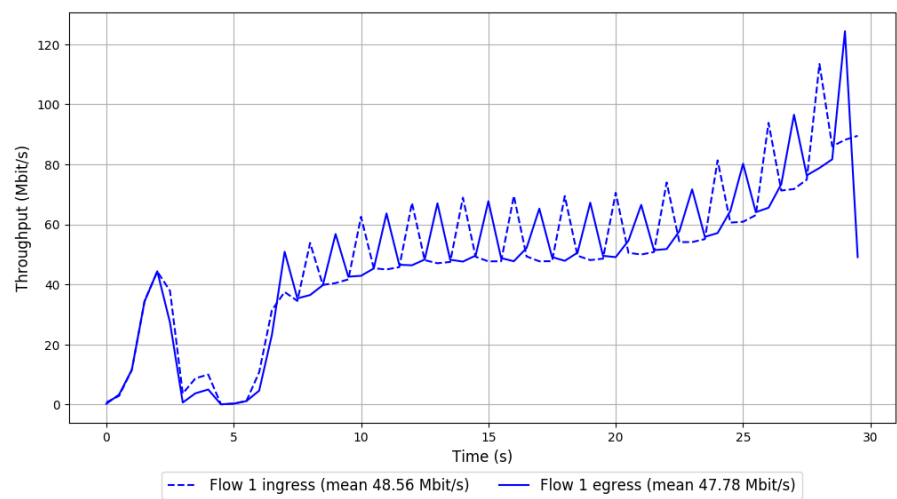
-- Flow 1:

Average throughput: 47.78 Mbit/s

95th percentile per-packet one-way delay: 93.412 ms

Loss rate: 2.34%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-12 20:14:18

End at: 2018-02-12 20:14:48

Below is generated by plot.py at 2018-02-13 00:40:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.71 Mbit/s

95th percentile per-packet one-way delay: 86.924 ms

Loss rate: 1.25%

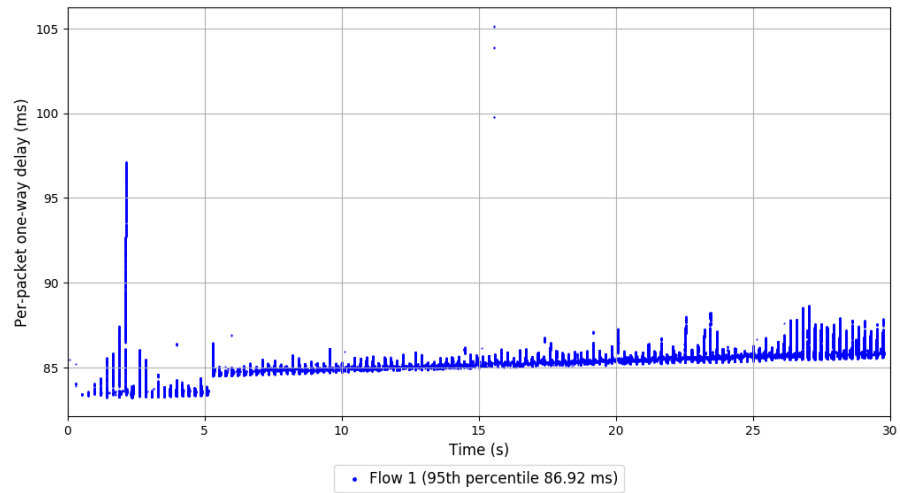
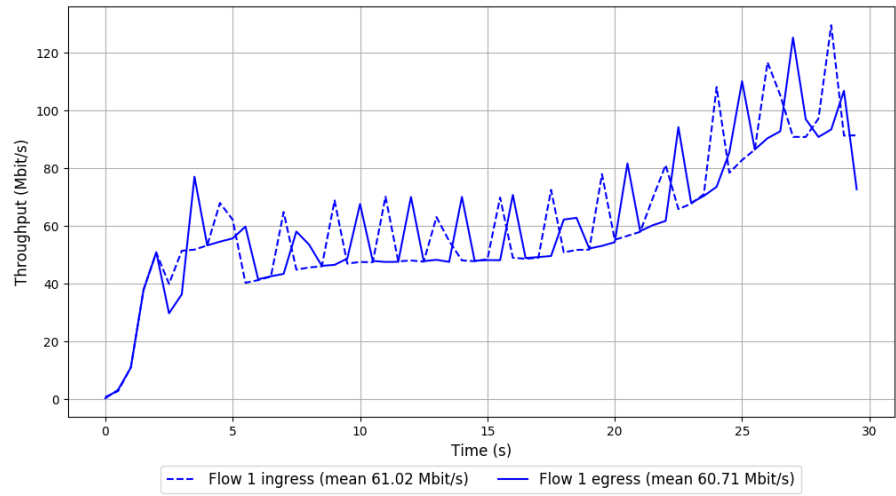
-- Flow 1:

Average throughput: 60.71 Mbit/s

95th percentile per-packet one-way delay: 86.924 ms

Loss rate: 1.25%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-12 20:29:55

End at: 2018-02-12 20:30:25

Below is generated by plot.py at 2018-02-13 00:40:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.06 Mbit/s

95th percentile per-packet one-way delay: 101.751 ms

Loss rate: 0.66%

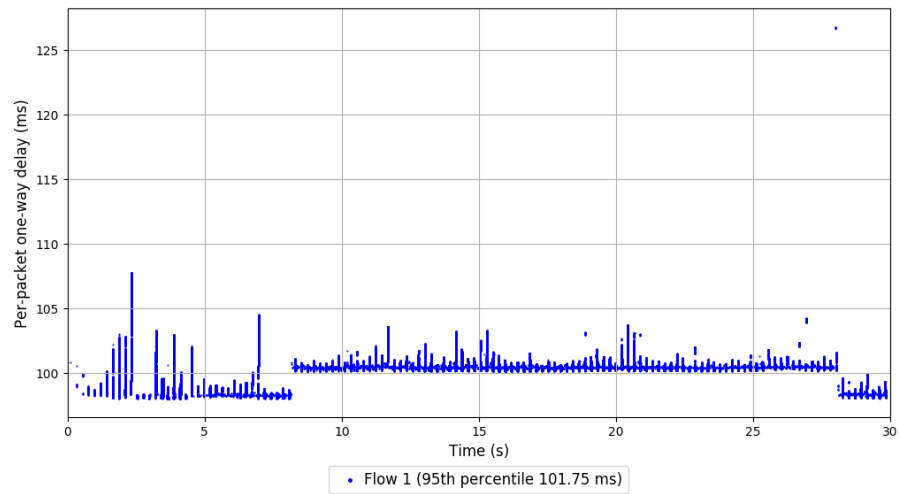
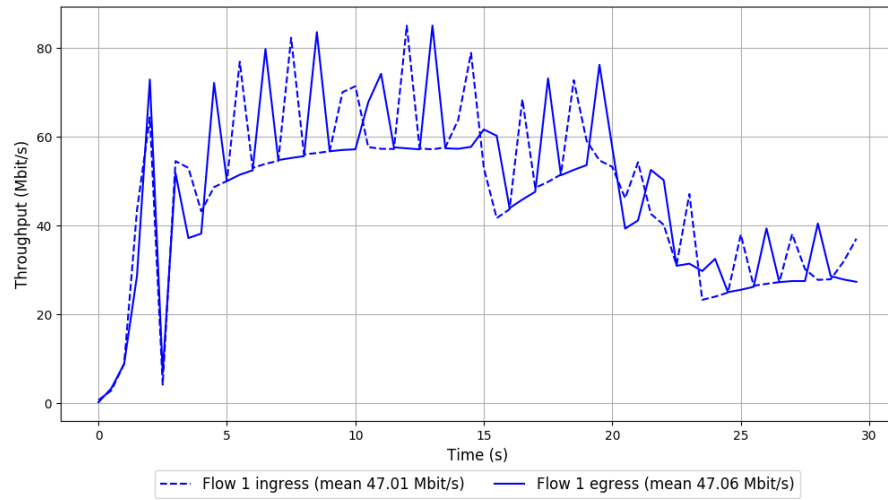
-- Flow 1:

Average throughput: 47.06 Mbit/s

95th percentile per-packet one-way delay: 101.751 ms

Loss rate: 0.66%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-12 20:45:26

End at: 2018-02-12 20:45:56

Below is generated by plot.py at 2018-02-13 00:40:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.71 Mbit/s

95th percentile per-packet one-way delay: 97.741 ms

Loss rate: 0.68%

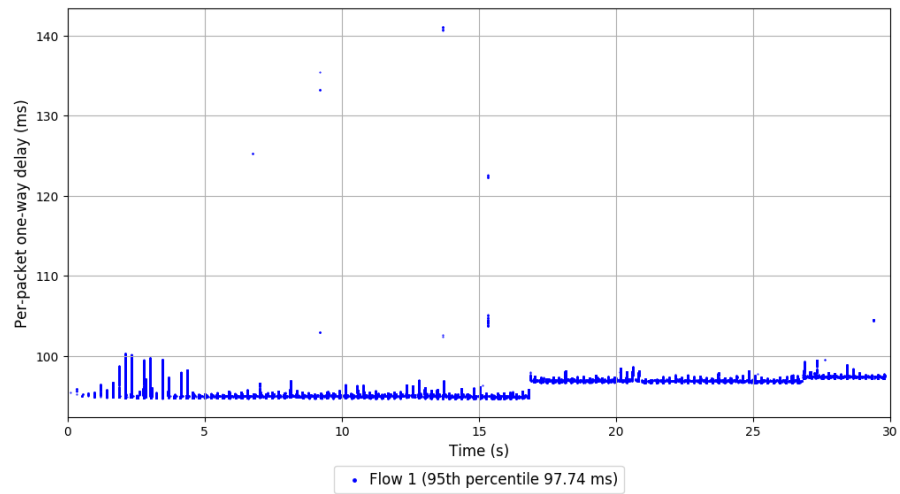
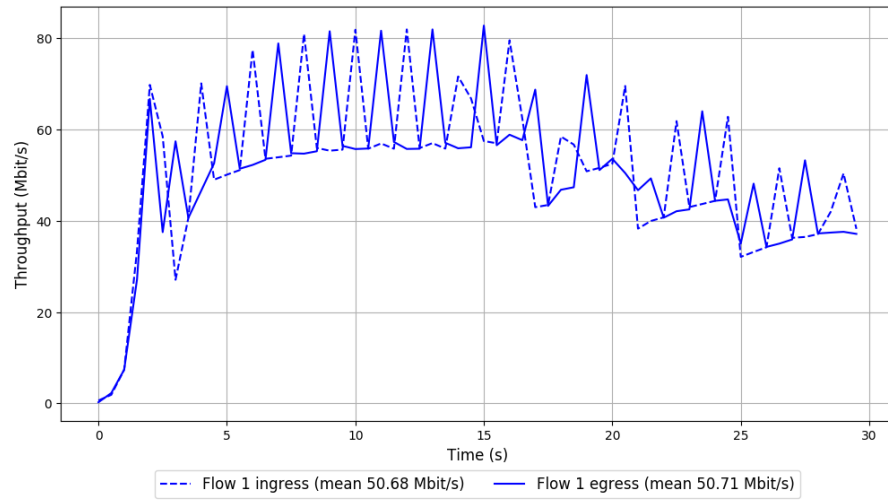
-- Flow 1:

Average throughput: 50.71 Mbit/s

95th percentile per-packet one-way delay: 97.741 ms

Loss rate: 0.68%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-12 21:01:17

End at: 2018-02-12 21:01:47

Below is generated by plot.py at 2018-02-13 00:40:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.27 Mbit/s

95th percentile per-packet one-way delay: 108.434 ms

Loss rate: 1.15%

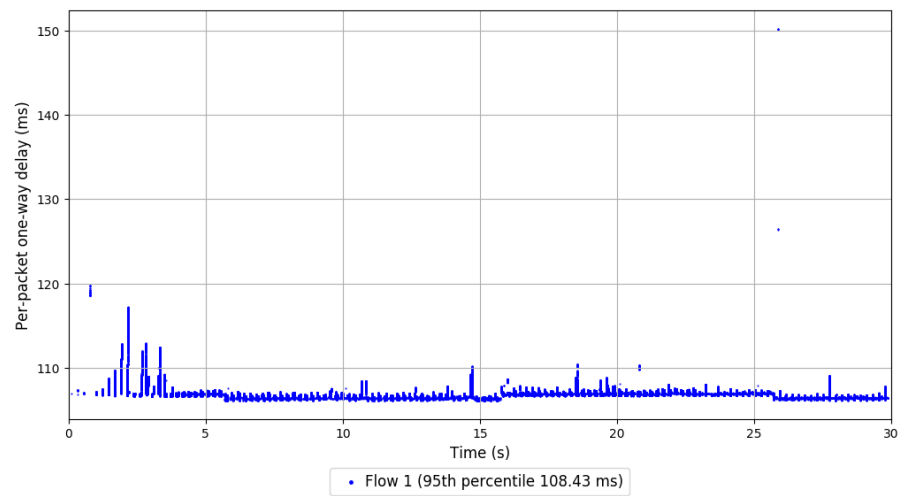
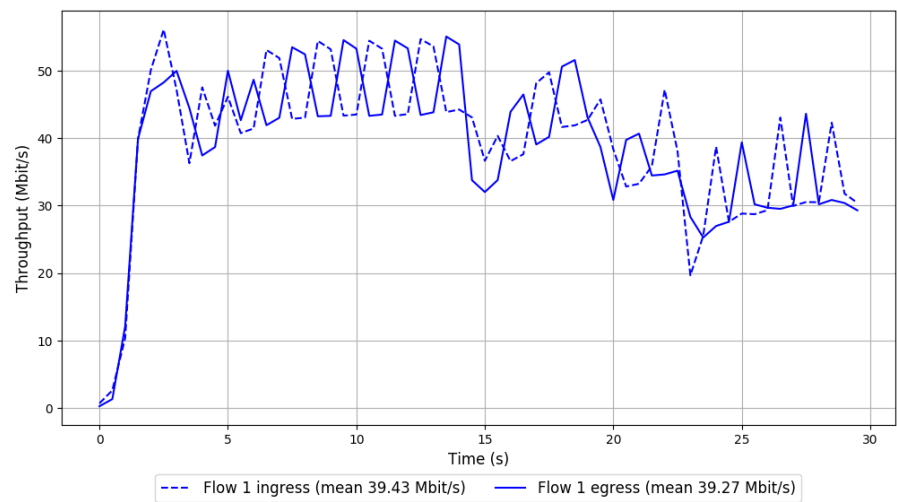
-- Flow 1:

Average throughput: 39.27 Mbit/s

95th percentile per-packet one-way delay: 108.434 ms

Loss rate: 1.15%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-12 21:16:50

End at: 2018-02-12 21:17:20

Below is generated by plot.py at 2018-02-13 00:40:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.97 Mbit/s

95th percentile per-packet one-way delay: 111.035 ms

Loss rate: 1.93%

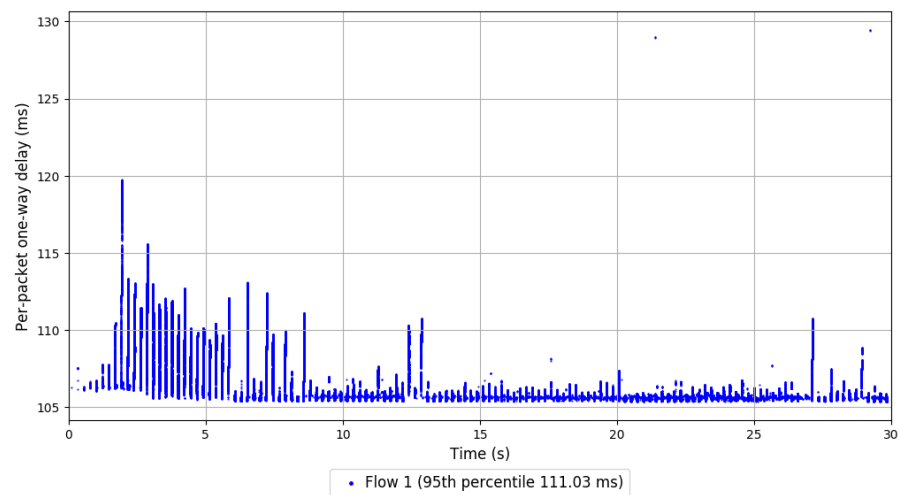
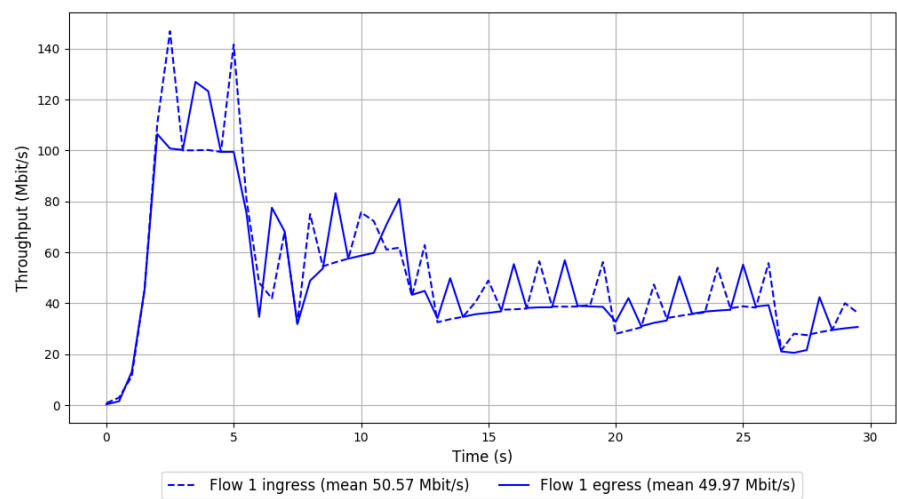
-- Flow 1:

Average throughput: 49.97 Mbit/s

95th percentile per-packet one-way delay: 111.035 ms

Loss rate: 1.93%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-12 21:32:10

End at: 2018-02-12 21:32:40

Below is generated by plot.py at 2018-02-13 00:40:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.54 Mbit/s

95th percentile per-packet one-way delay: 110.910 ms

Loss rate: 2.19%

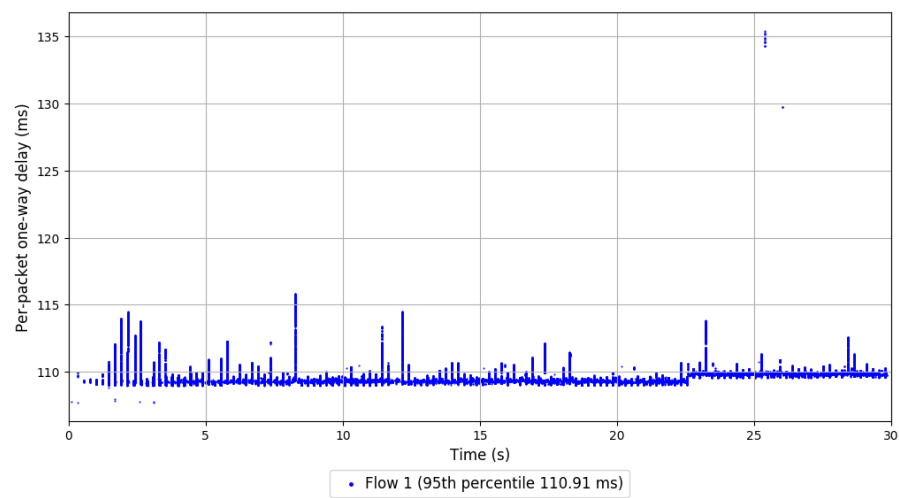
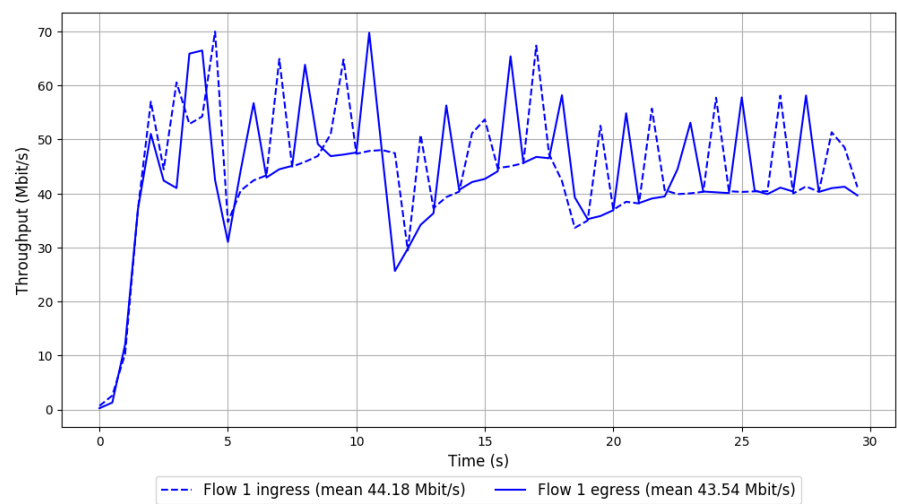
-- Flow 1:

Average throughput: 43.54 Mbit/s

95th percentile per-packet one-way delay: 110.910 ms

Loss rate: 2.19%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-12 21:47:45

End at: 2018-02-12 21:48:15

Below is generated by plot.py at 2018-02-13 00:40:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.31 Mbit/s

95th percentile per-packet one-way delay: 110.282 ms

Loss rate: 0.88%

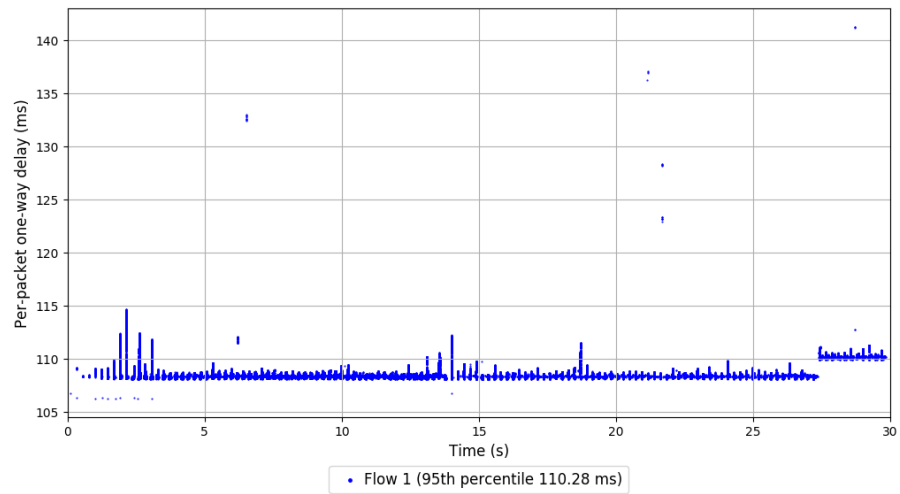
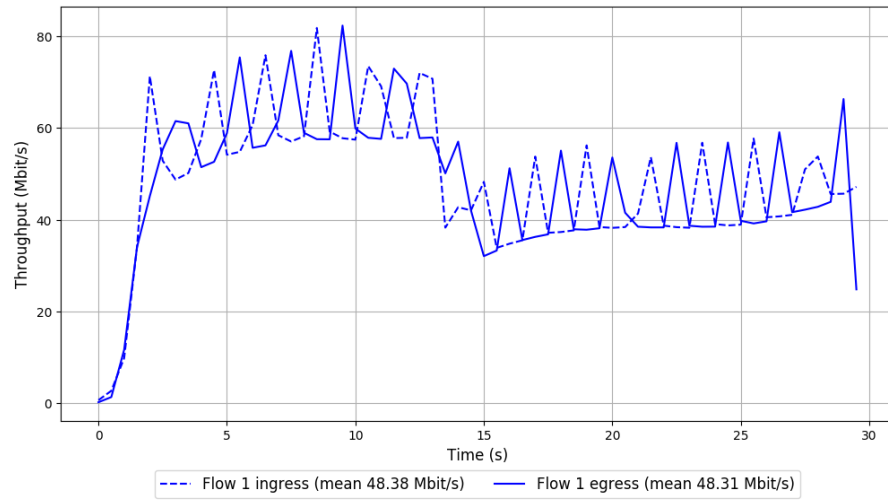
-- Flow 1:

Average throughput: 48.31 Mbit/s

95th percentile per-packet one-way delay: 110.282 ms

Loss rate: 0.88%

Run 10: Report of TCP Cubic — Data Link

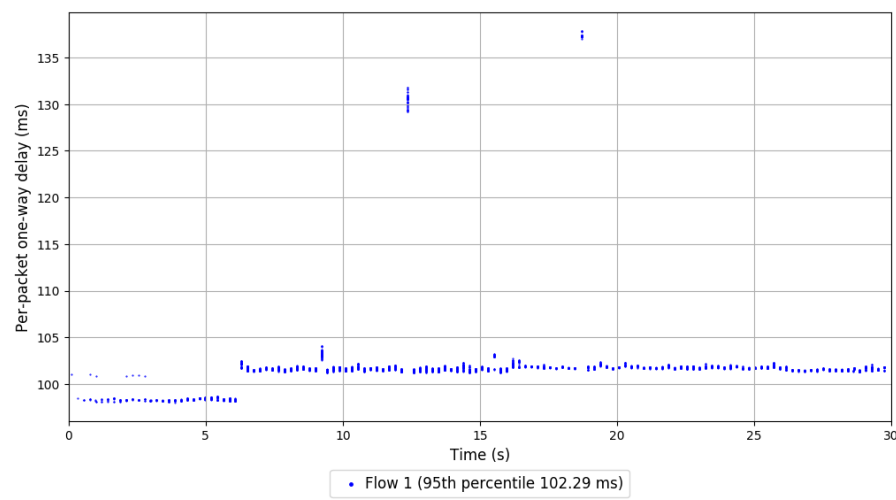
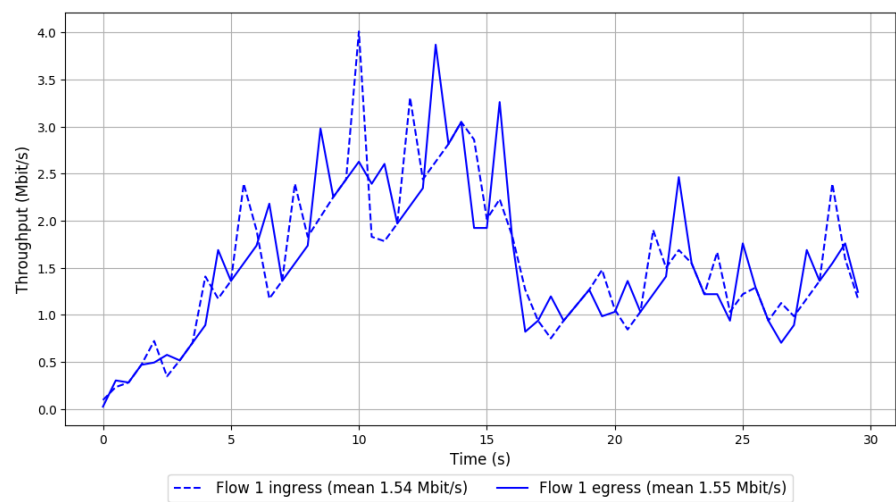


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-12 19:27:07
End at: 2018-02-12 19:27:37

# Below is generated by plot.py at 2018-02-13 00:40:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.55 Mbit/s
95th percentile per-packet one-way delay: 102.289 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 1.55 Mbit/s
95th percentile per-packet one-way delay: 102.289 ms
Loss rate: 0.71%
```

Run 1: Report of LEDBAT — Data Link

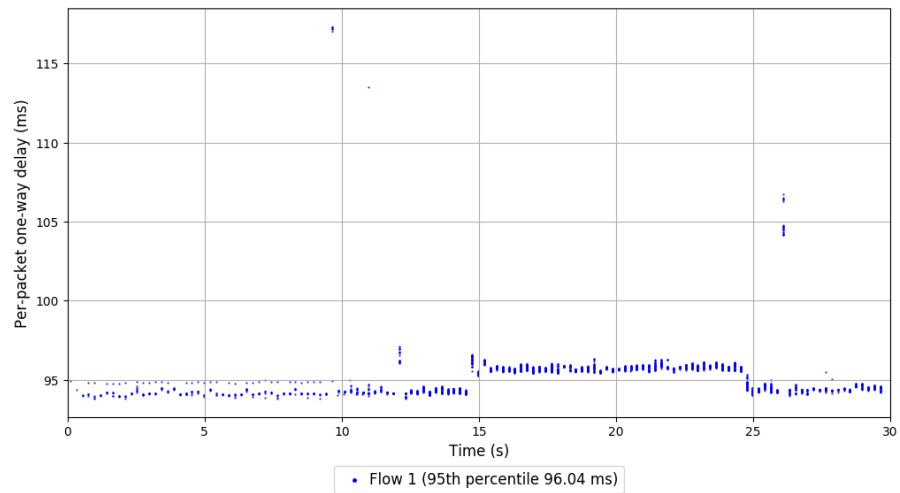
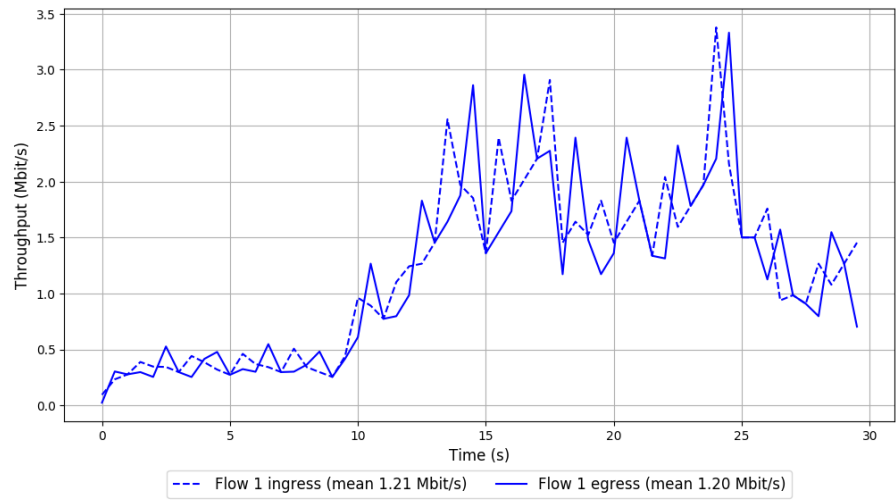


```
Run 2: Statistics of LEDBAT

Start at: 2018-02-12 19:42:58
End at: 2018-02-12 19:43:28

# Below is generated by plot.py at 2018-02-13 00:40:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.20 Mbit/s
95th percentile per-packet one-way delay: 96.044 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 1.20 Mbit/s
95th percentile per-packet one-way delay: 96.044 ms
Loss rate: 1.34%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-12 19:58:23

End at: 2018-02-12 19:58:53

Below is generated by plot.py at 2018-02-13 00:40:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.55 Mbit/s

95th percentile per-packet one-way delay: 93.547 ms

Loss rate: 0.46%

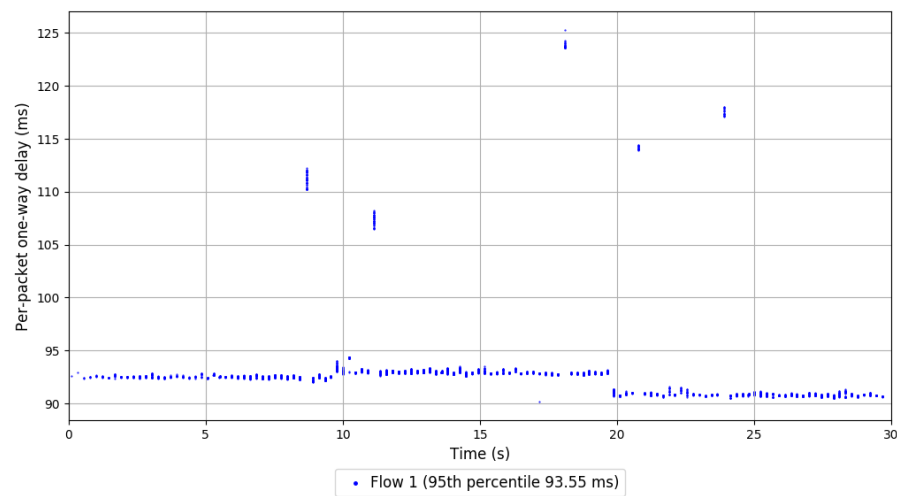
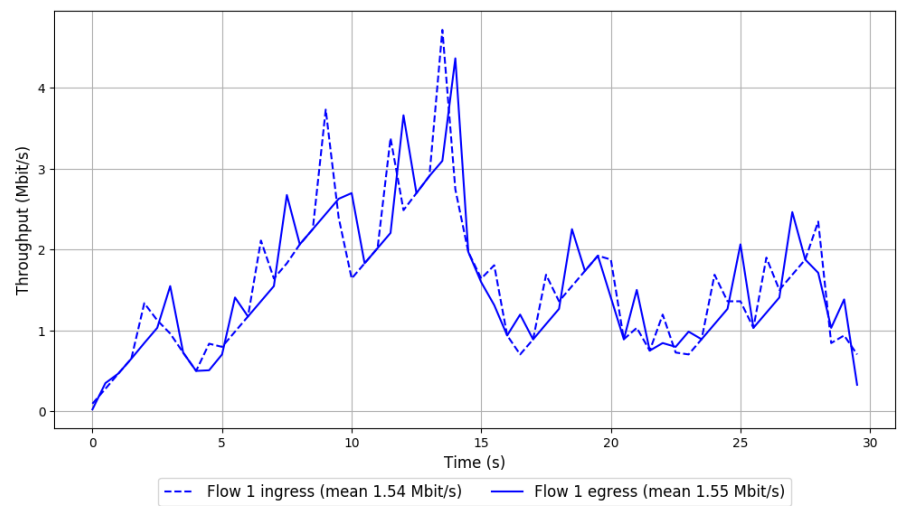
-- Flow 1:

Average throughput: 1.55 Mbit/s

95th percentile per-packet one-way delay: 93.547 ms

Loss rate: 0.46%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-12 20:13:37

End at: 2018-02-12 20:14:07

Below is generated by plot.py at 2018-02-13 00:40:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.59 Mbit/s

95th percentile per-packet one-way delay: 84.276 ms

Loss rate: 0.69%

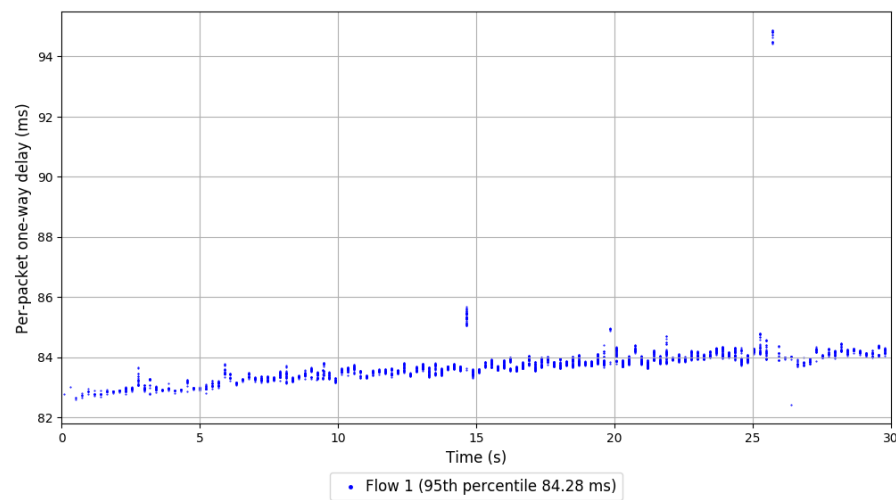
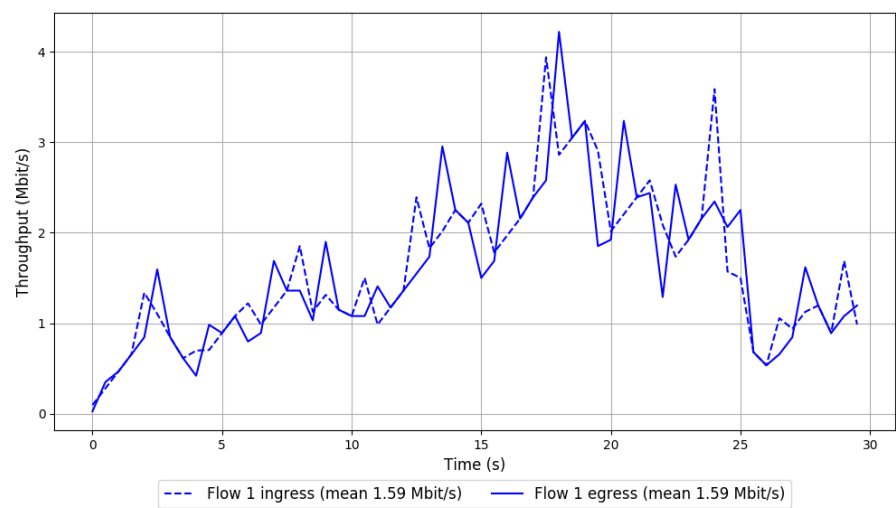
-- Flow 1:

Average throughput: 1.59 Mbit/s

95th percentile per-packet one-way delay: 84.276 ms

Loss rate: 0.69%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-12 20:29:14

End at: 2018-02-12 20:29:44

Below is generated by plot.py at 2018-02-13 00:40:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 98.688 ms

Loss rate: 1.45%

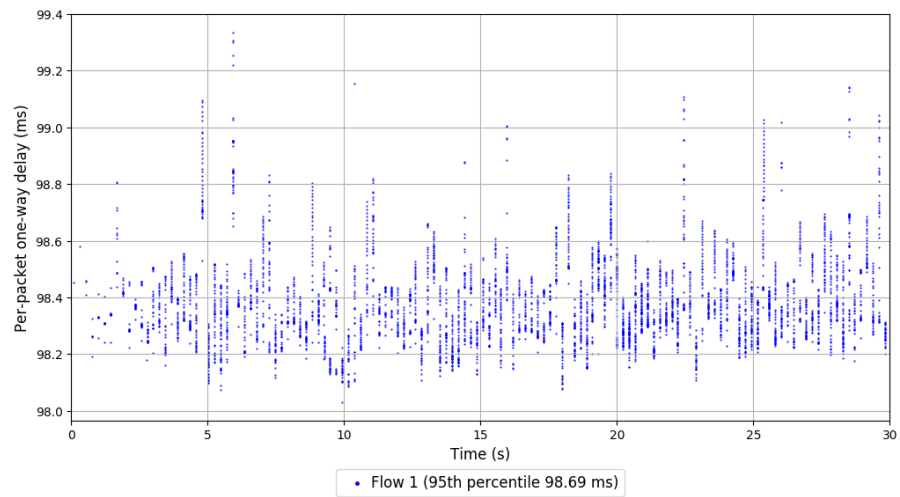
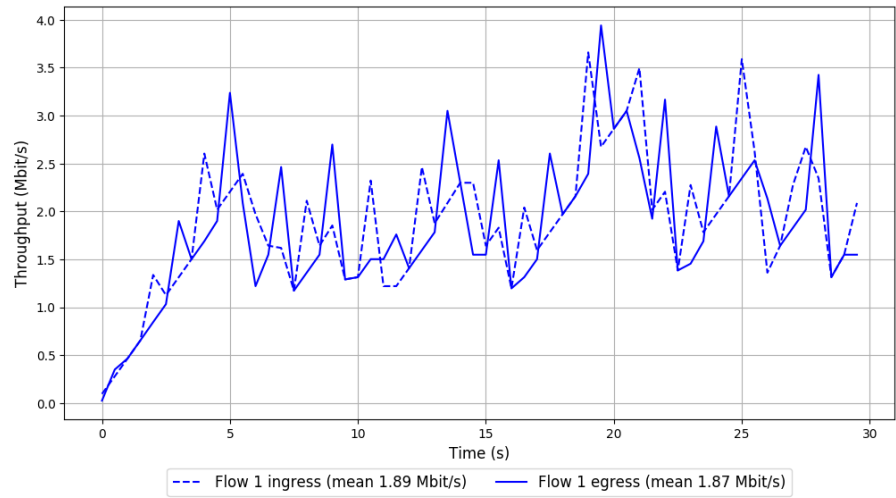
-- Flow 1:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 98.688 ms

Loss rate: 1.45%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-12 20:44:45

End at: 2018-02-12 20:45:15

Below is generated by plot.py at 2018-02-13 00:40:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 97.928 ms

Loss rate: 0.71%

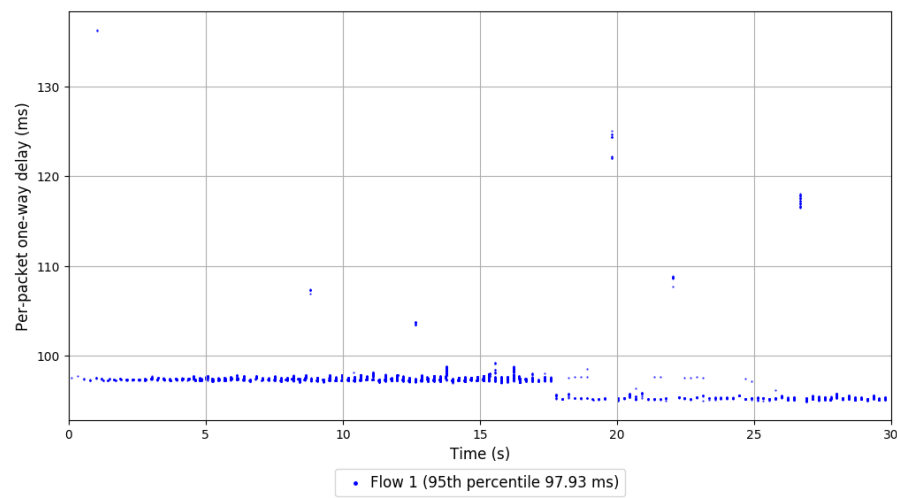
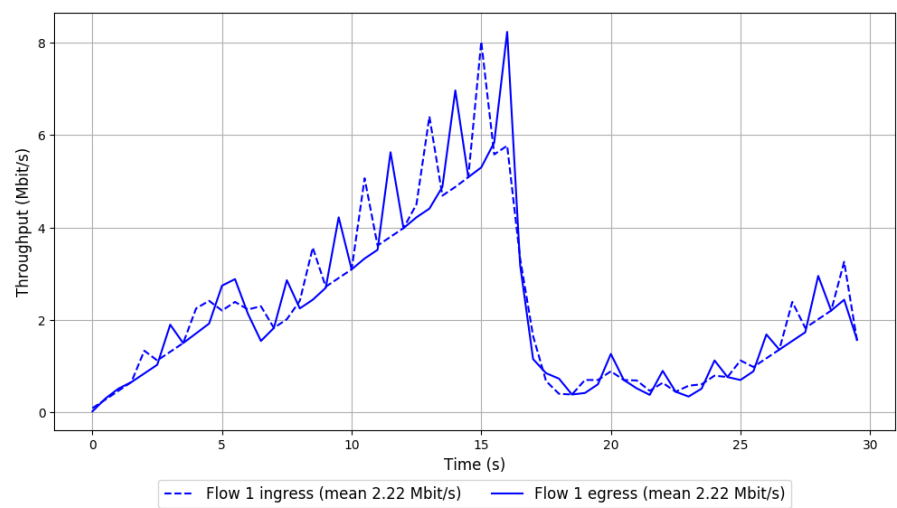
-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 97.928 ms

Loss rate: 0.71%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-12 21:00:37

End at: 2018-02-12 21:01:07

Below is generated by plot.py at 2018-02-13 00:40:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 107.148 ms

Loss rate: 1.41%

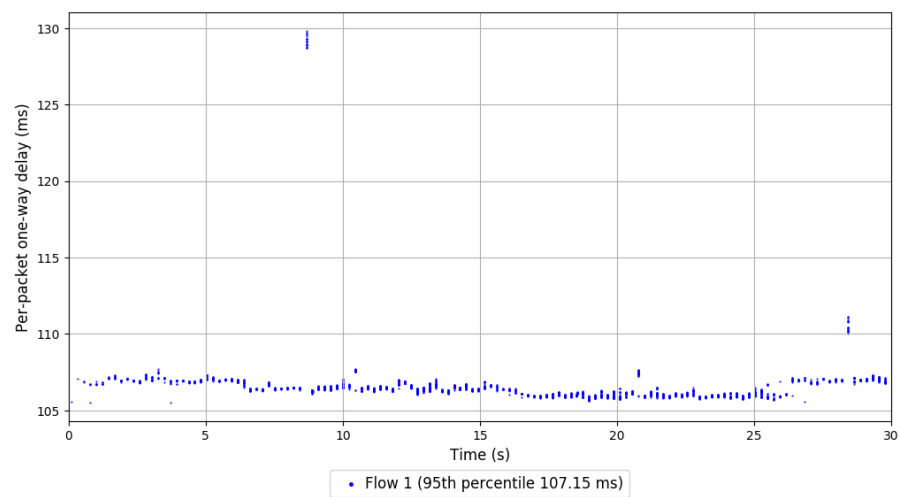
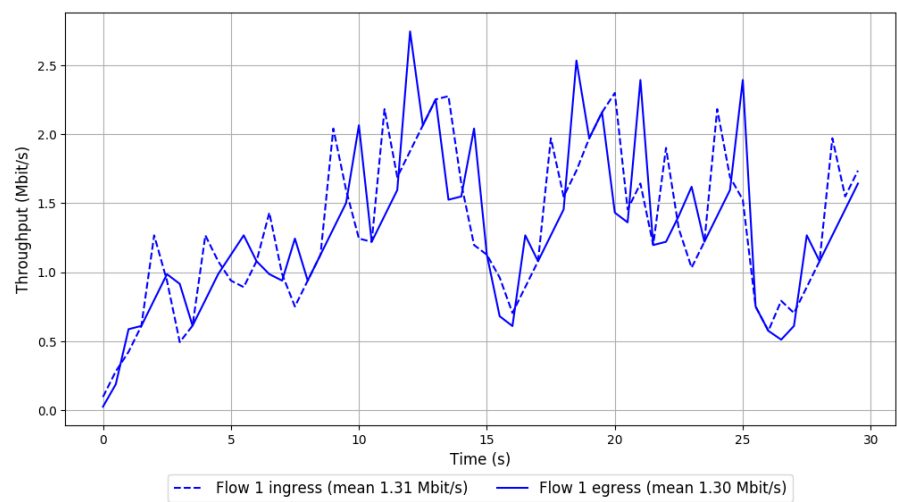
-- Flow 1:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 107.148 ms

Loss rate: 1.41%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-12 21:16:09

End at: 2018-02-12 21:16:39

Below is generated by plot.py at 2018-02-13 00:40:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 106.736 ms

Loss rate: 2.30%

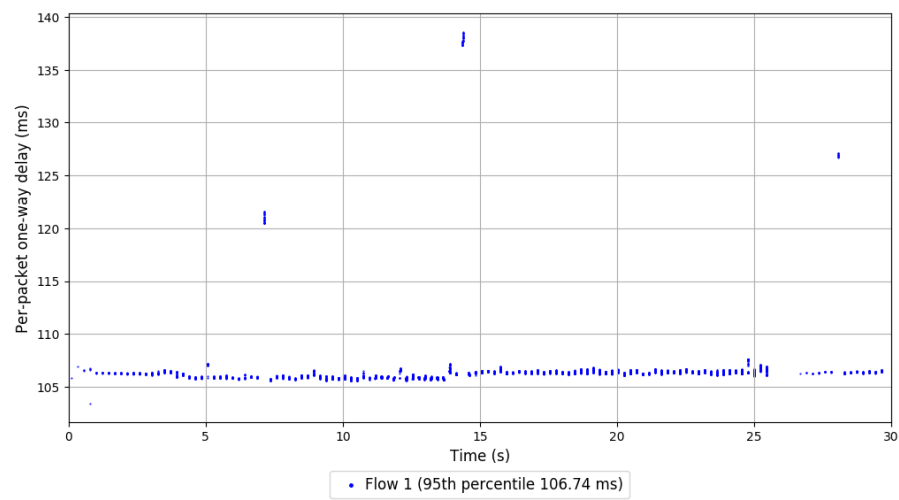
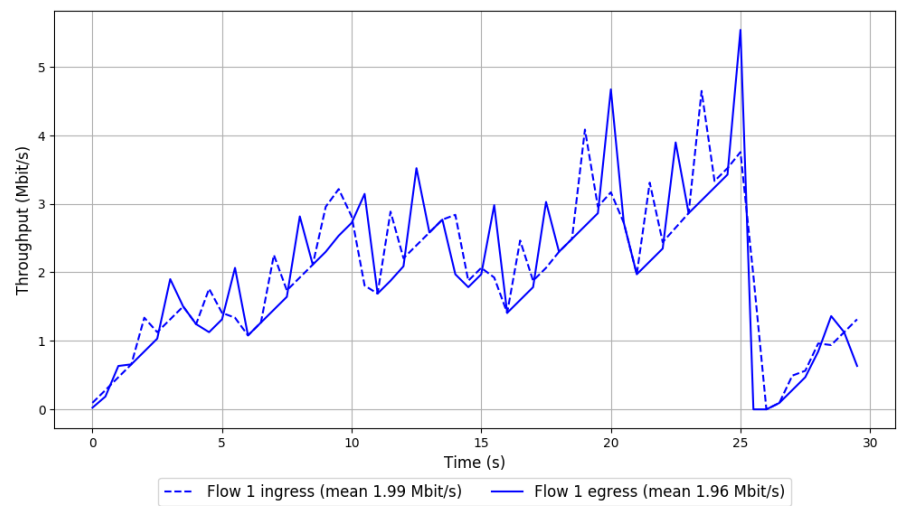
-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 106.736 ms

Loss rate: 2.30%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-12 21:31:29

End at: 2018-02-12 21:31:59

Below is generated by plot.py at 2018-02-13 00:40:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.84 Mbit/s

95th percentile per-packet one-way delay: 110.207 ms

Loss rate: 0.68%

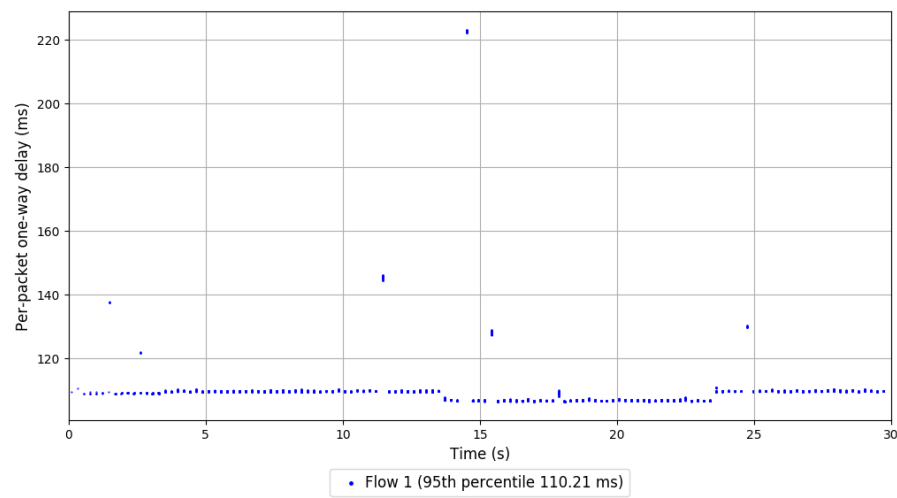
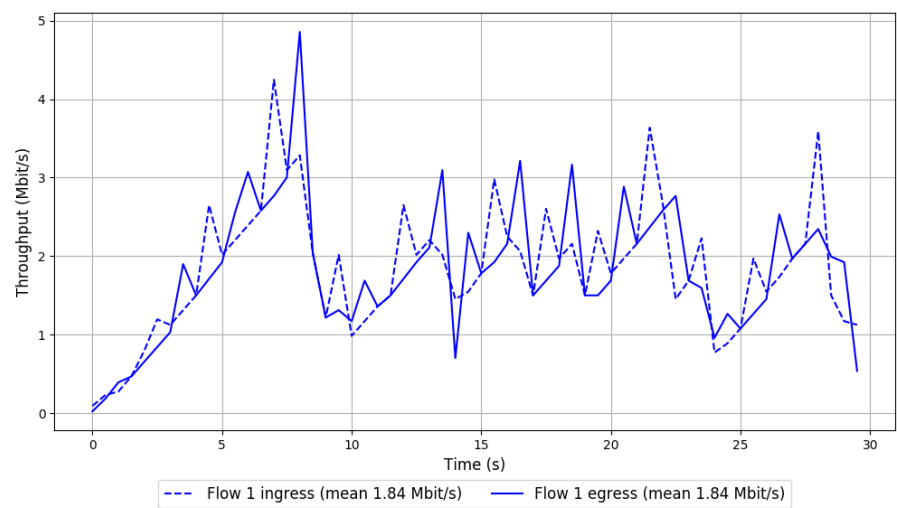
-- Flow 1:

Average throughput: 1.84 Mbit/s

95th percentile per-packet one-way delay: 110.207 ms

Loss rate: 0.68%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-12 21:47:05

End at: 2018-02-12 21:47:35

Below is generated by plot.py at 2018-02-13 00:40:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 110.498 ms

Loss rate: 1.88%

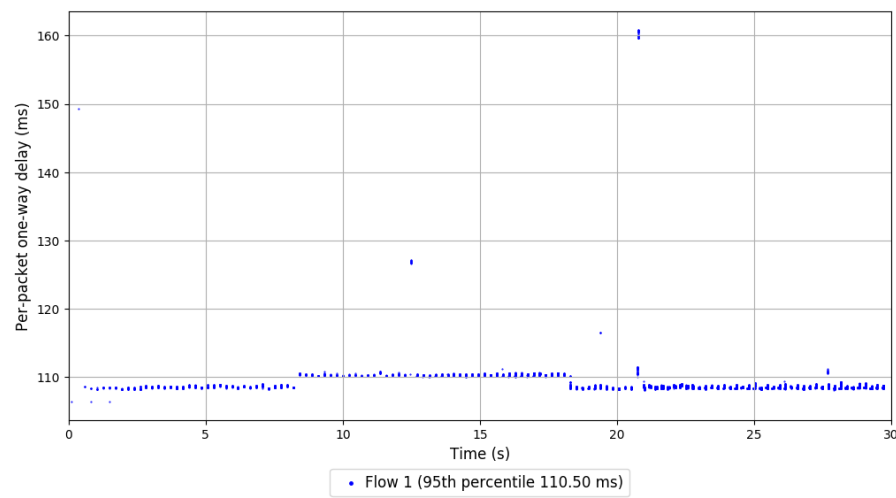
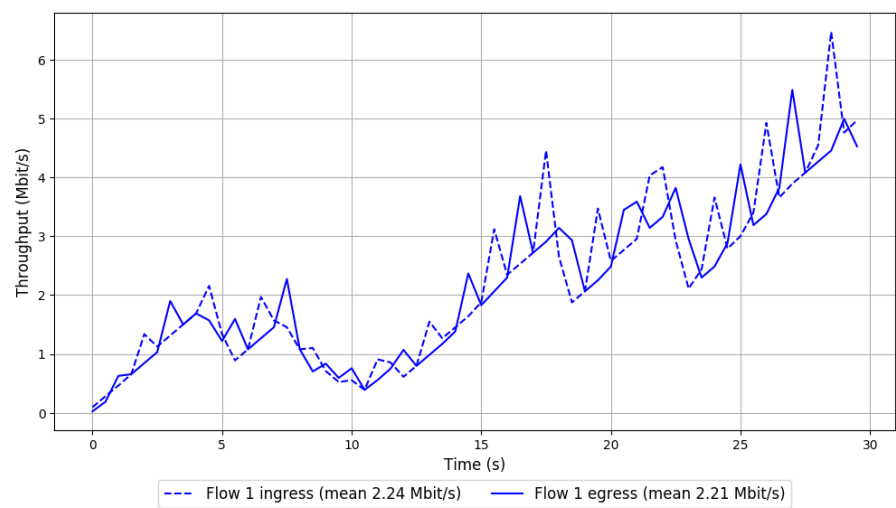
-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 110.498 ms

Loss rate: 1.88%

Run 10: Report of LEDBAT — Data Link

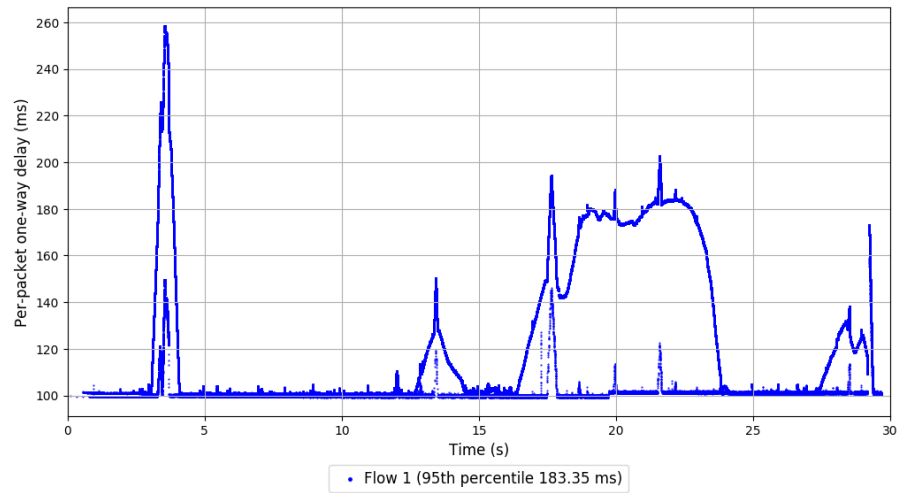
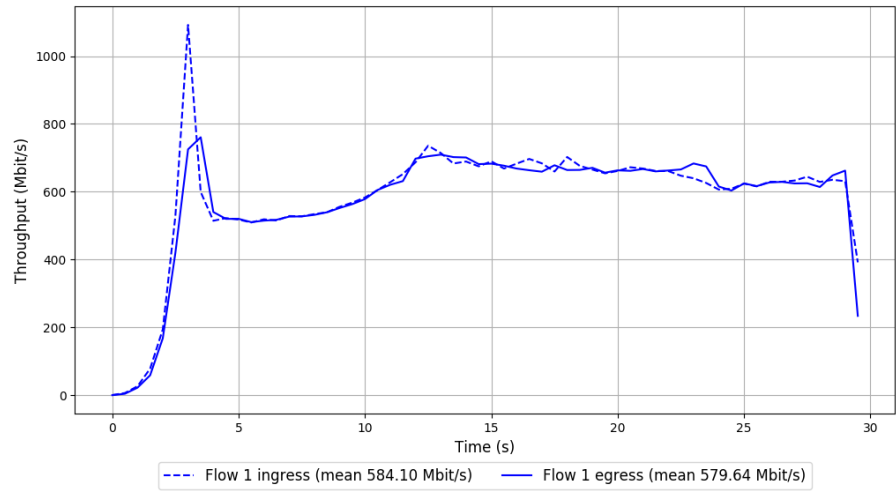


```
Run 1: Statistics of PCC

Start at: 2018-02-12 19:19:50
End at: 2018-02-12 19:20:20

# Below is generated by plot.py at 2018-02-13 00:49:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 579.64 Mbit/s
95th percentile per-packet one-way delay: 183.349 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 579.64 Mbit/s
95th percentile per-packet one-way delay: 183.349 ms
Loss rate: 1.50%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-12 19:35:08

End at: 2018-02-12 19:35:38

Below is generated by plot.py at 2018-02-13 00:49:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 561.11 Mbit/s

95th percentile per-packet one-way delay: 206.760 ms

Loss rate: 1.83%

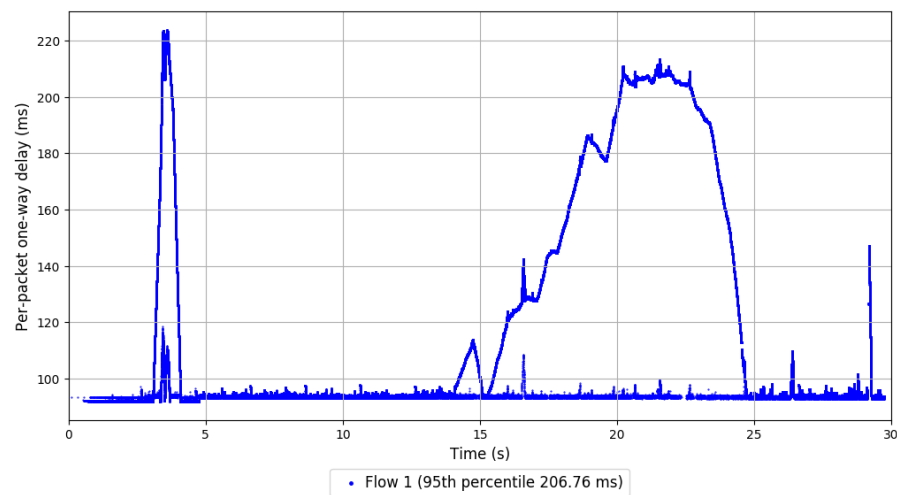
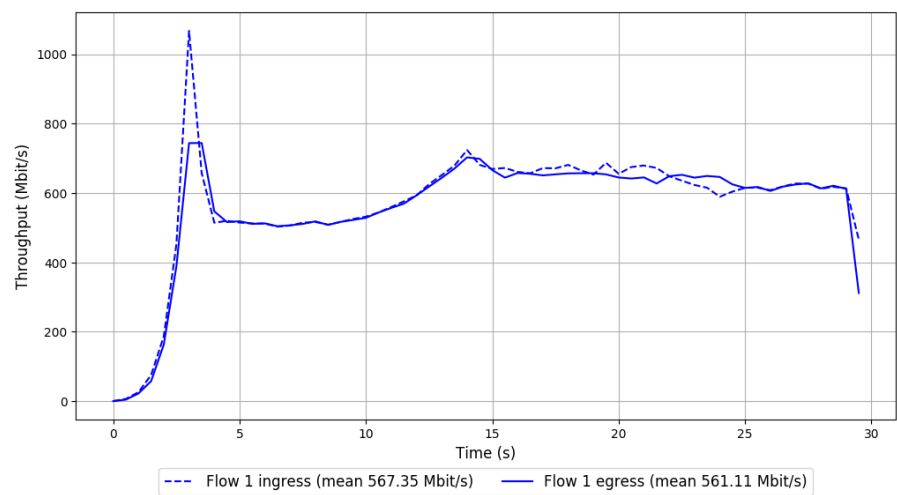
-- Flow 1:

Average throughput: 561.11 Mbit/s

95th percentile per-packet one-way delay: 206.760 ms

Loss rate: 1.83%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-12 19:51:03

End at: 2018-02-12 19:51:33

Below is generated by plot.py at 2018-02-13 00:49:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 580.87 Mbit/s

95th percentile per-packet one-way delay: 170.945 ms

Loss rate: 1.57%

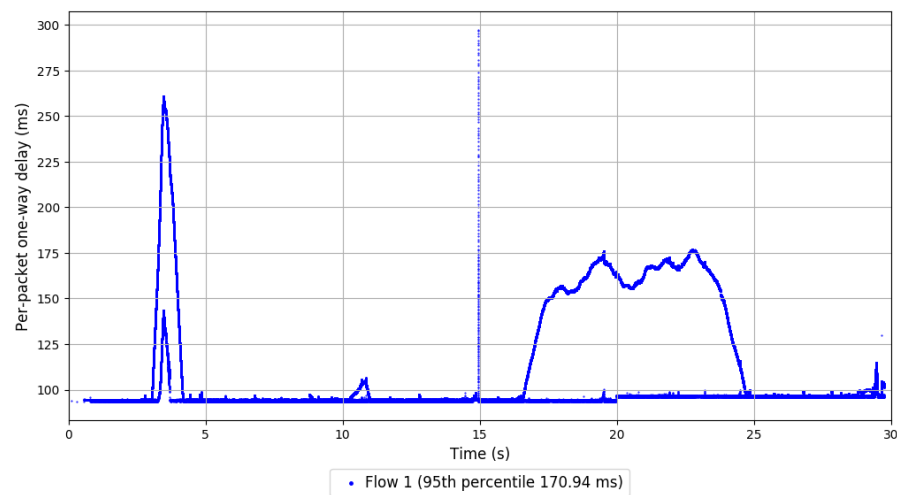
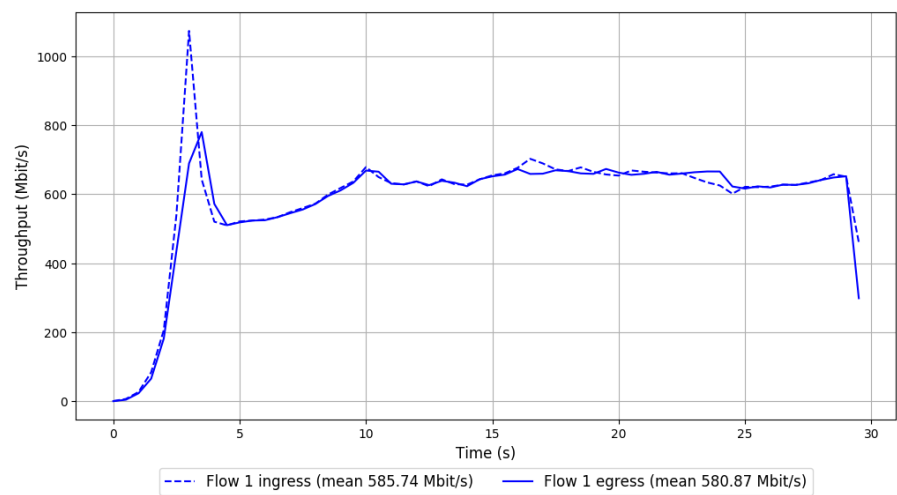
-- Flow 1:

Average throughput: 580.87 Mbit/s

95th percentile per-packet one-way delay: 170.945 ms

Loss rate: 1.57%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-12 20:06:11

End at: 2018-02-12 20:06:41

Below is generated by plot.py at 2018-02-13 00:50:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 575.01 Mbit/s

95th percentile per-packet one-way delay: 198.882 ms

Loss rate: 1.56%

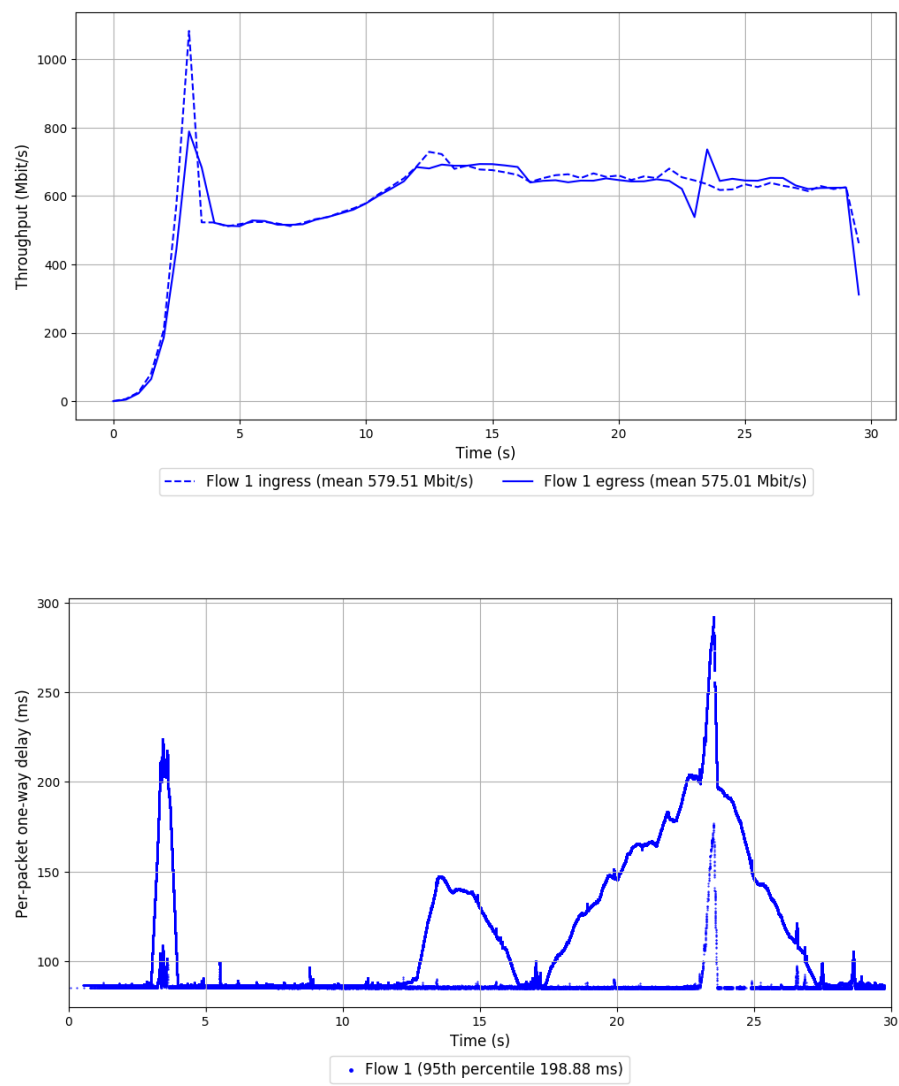
-- Flow 1:

Average throughput: 575.01 Mbit/s

95th percentile per-packet one-way delay: 198.882 ms

Loss rate: 1.56%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-12 20:21:32

End at: 2018-02-12 20:22:02

Below is generated by plot.py at 2018-02-13 00:50:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 604.49 Mbit/s

95th percentile per-packet one-way delay: 199.999 ms

Loss rate: 1.77%

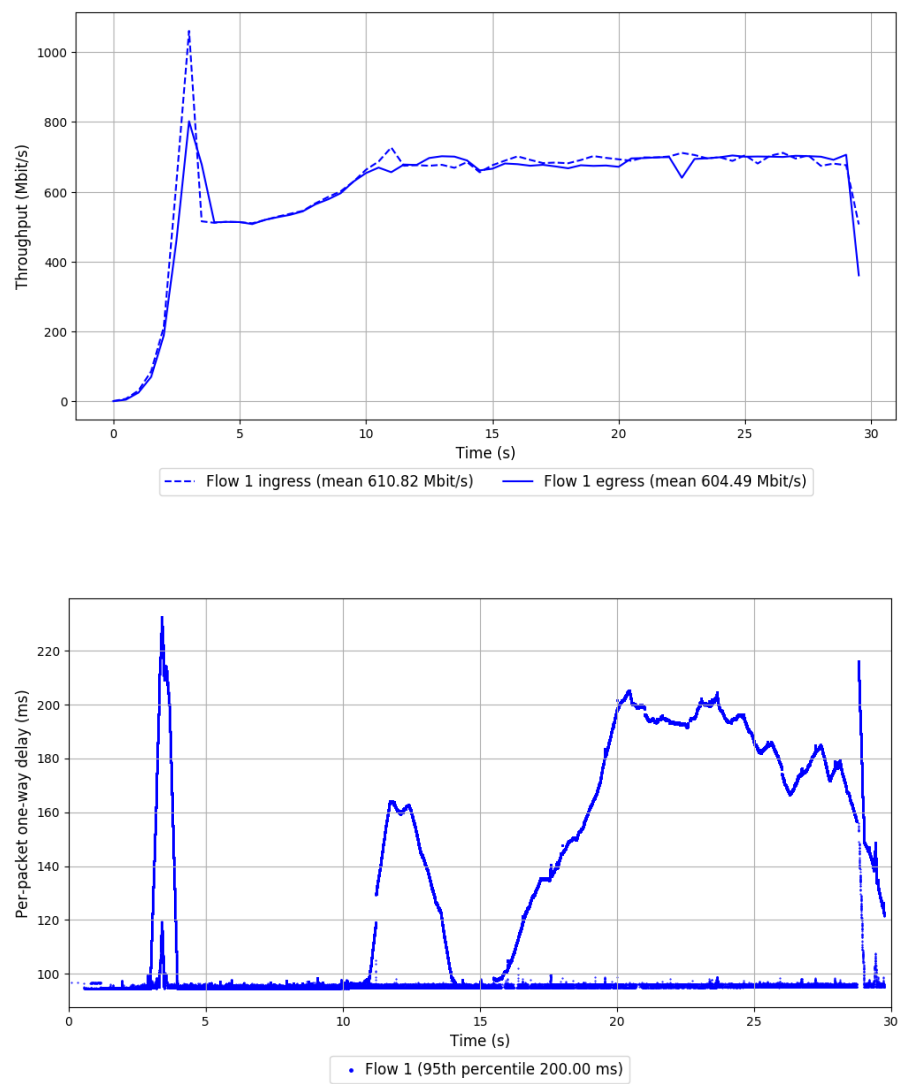
-- Flow 1:

Average throughput: 604.49 Mbit/s

95th percentile per-packet one-way delay: 199.999 ms

Loss rate: 1.77%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-12 20:37:17

End at: 2018-02-12 20:37:47

Below is generated by plot.py at 2018-02-13 00:50:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 563.65 Mbit/s

95th percentile per-packet one-way delay: 126.188 ms

Loss rate: 1.45%

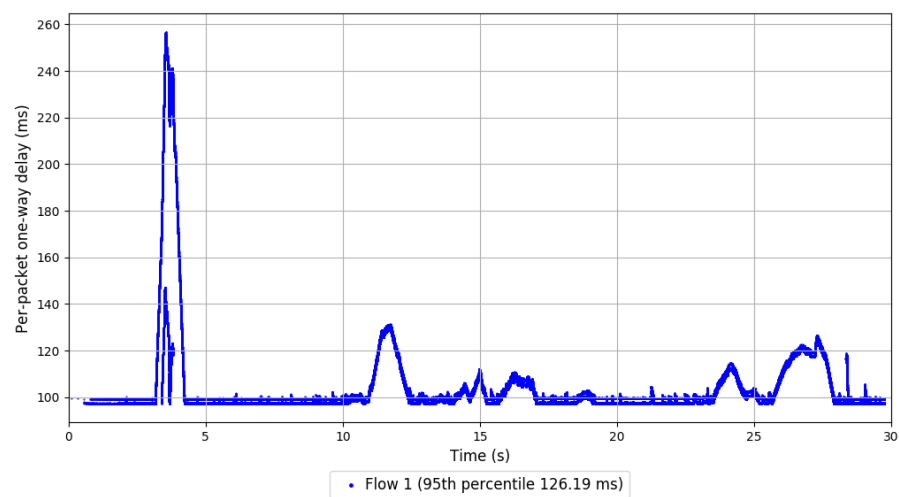
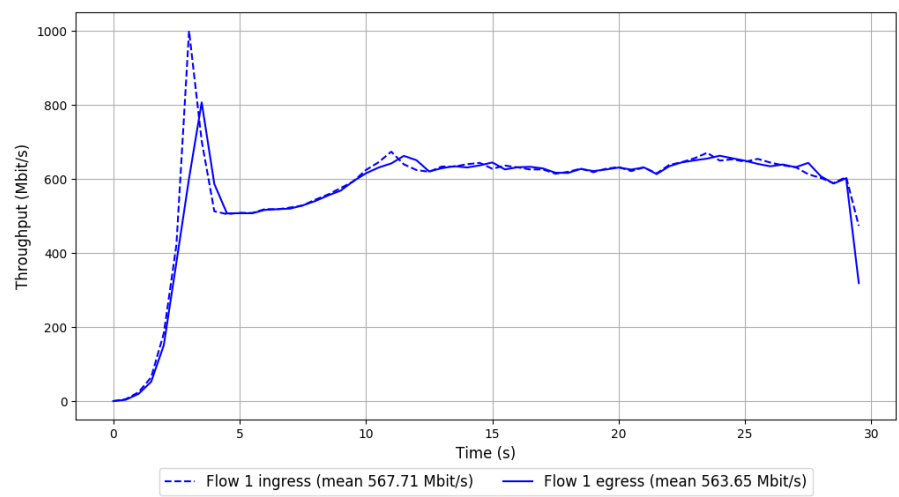
-- Flow 1:

Average throughput: 563.65 Mbit/s

95th percentile per-packet one-way delay: 126.188 ms

Loss rate: 1.45%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-12 20:52:52

End at: 2018-02-12 20:53:22

Below is generated by plot.py at 2018-02-13 00:50:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 560.42 Mbit/s

95th percentile per-packet one-way delay: 155.796 ms

Loss rate: 1.91%

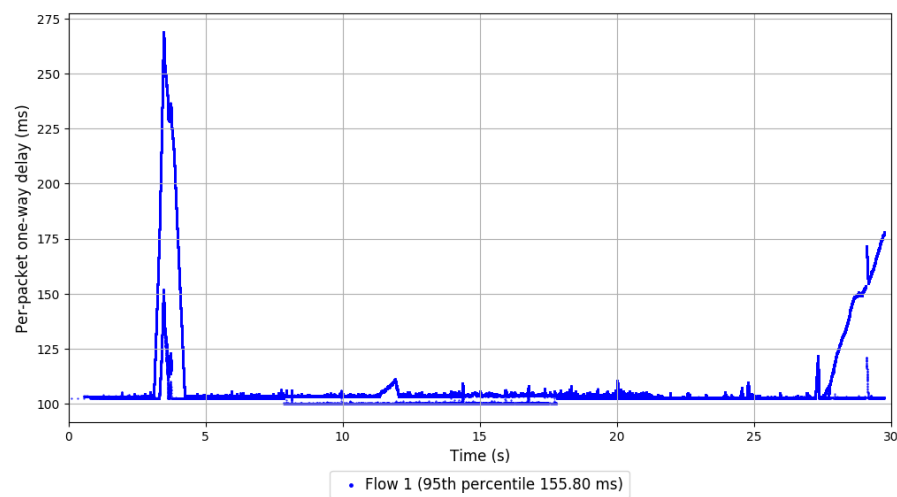
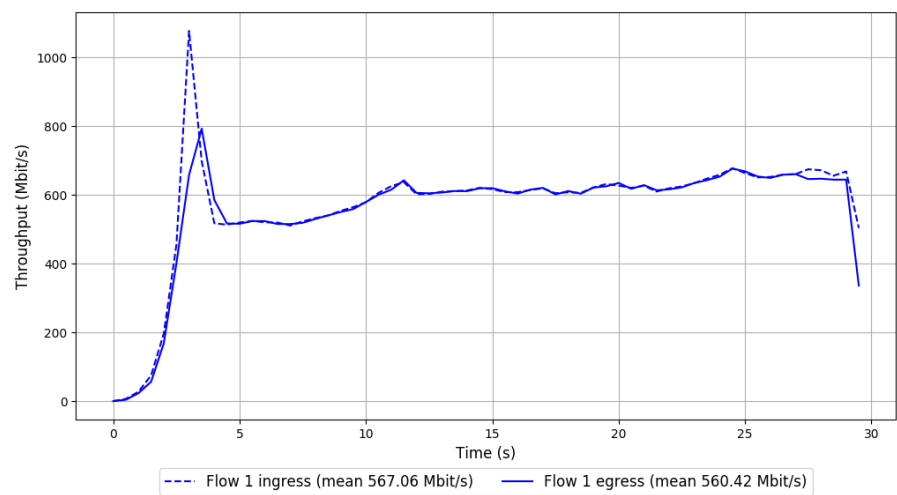
-- Flow 1:

Average throughput: 560.42 Mbit/s

95th percentile per-packet one-way delay: 155.796 ms

Loss rate: 1.91%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-12 21:08:37

End at: 2018-02-12 21:09:07

Below is generated by plot.py at 2018-02-13 00:50:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 582.45 Mbit/s

95th percentile per-packet one-way delay: 146.403 ms

Loss rate: 1.74%

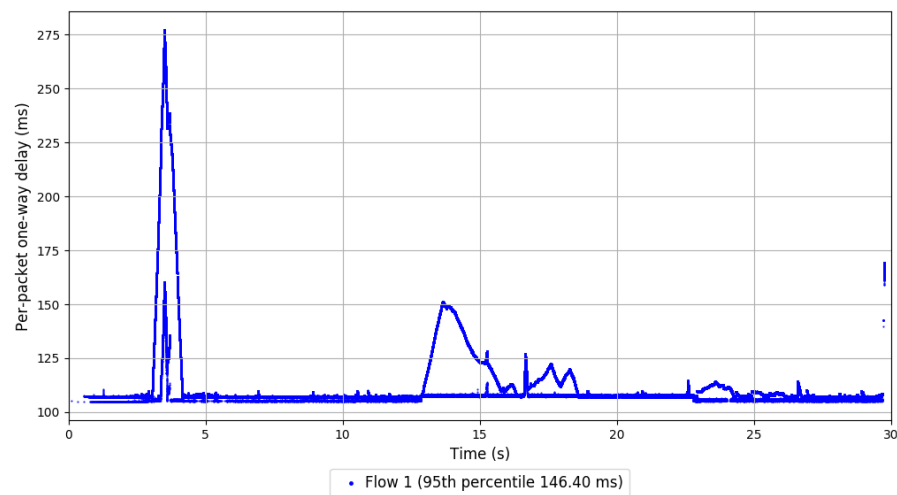
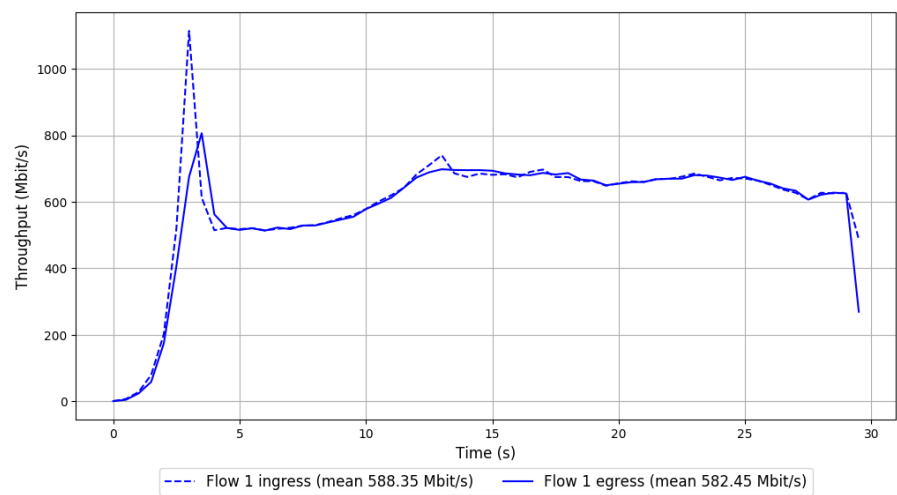
-- Flow 1:

Average throughput: 582.45 Mbit/s

95th percentile per-packet one-way delay: 146.403 ms

Loss rate: 1.74%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-12 21:24:01

End at: 2018-02-12 21:24:31

Below is generated by plot.py at 2018-02-13 00:59:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 575.15 Mbit/s

95th percentile per-packet one-way delay: 206.704 ms

Loss rate: 2.21%

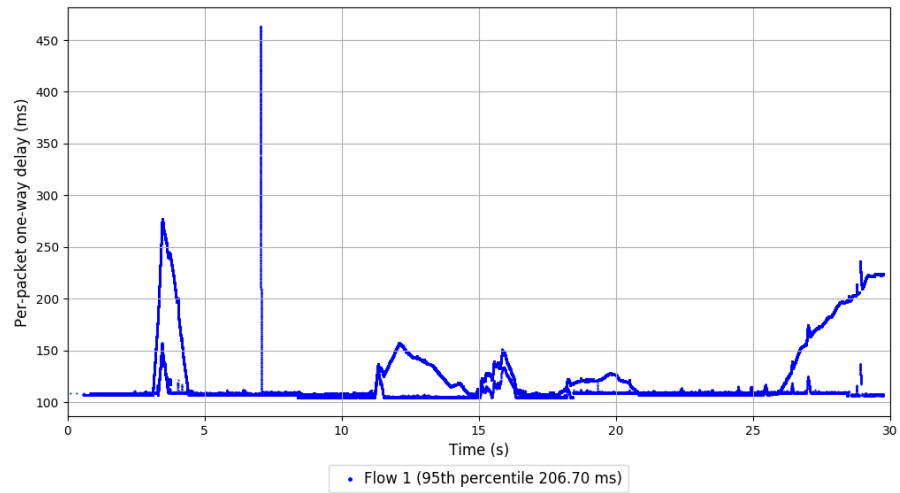
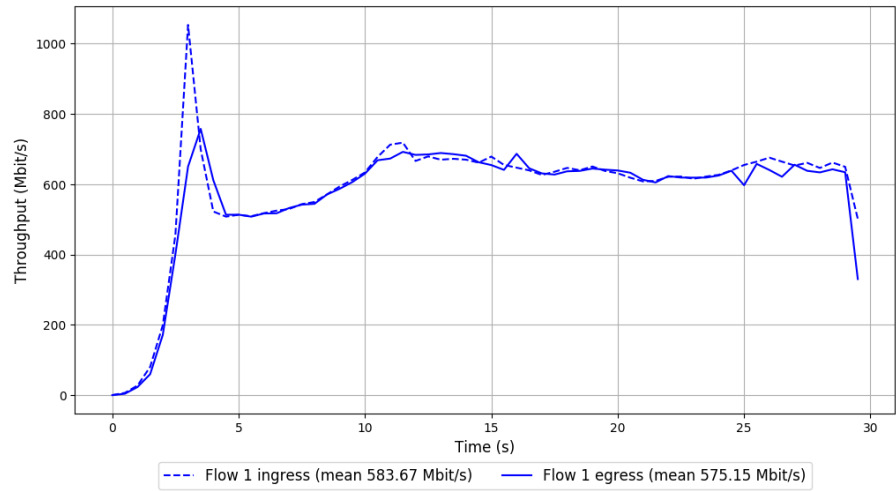
-- Flow 1:

Average throughput: 575.15 Mbit/s

95th percentile per-packet one-way delay: 206.704 ms

Loss rate: 2.21%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-12 21:39:37

End at: 2018-02-12 21:40:07

Below is generated by plot.py at 2018-02-13 00:59:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 584.60 Mbit/s

95th percentile per-packet one-way delay: 216.006 ms

Loss rate: 1.44%

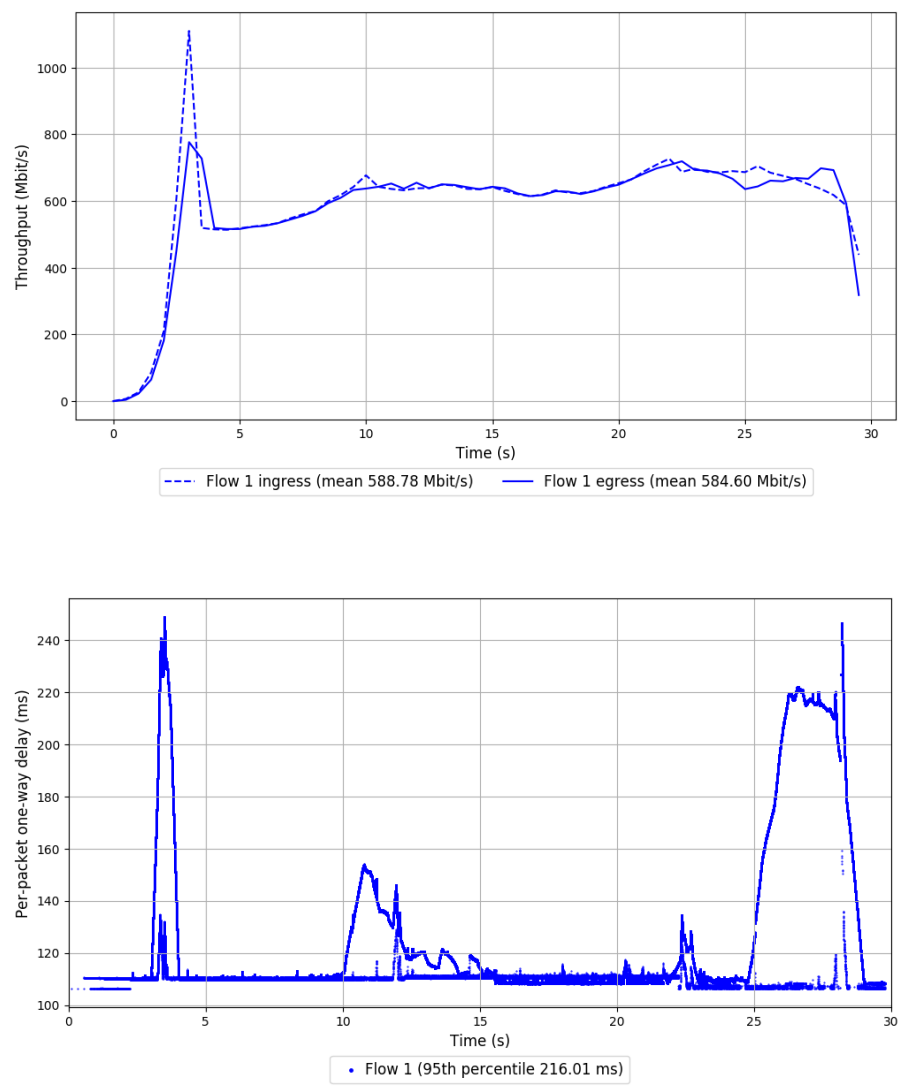
-- Flow 1:

Average throughput: 584.60 Mbit/s

95th percentile per-packet one-way delay: 216.006 ms

Loss rate: 1.44%

Run 10: Report of PCC — Data Link

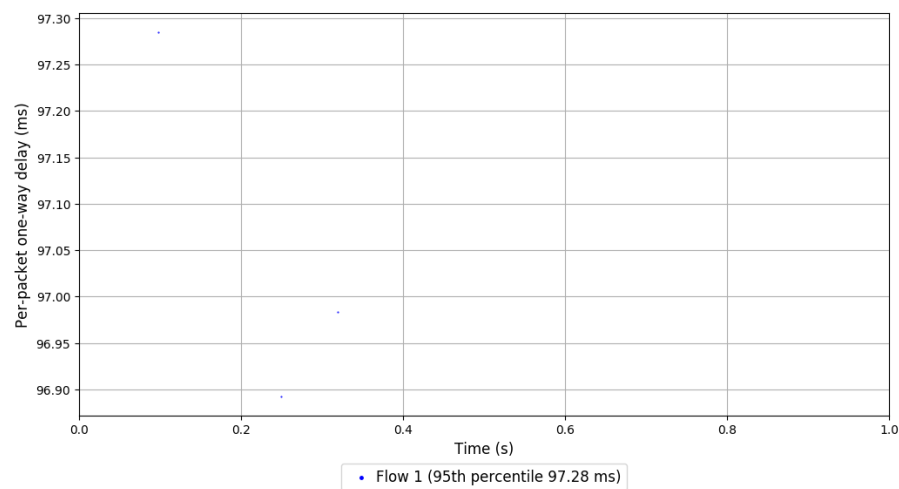
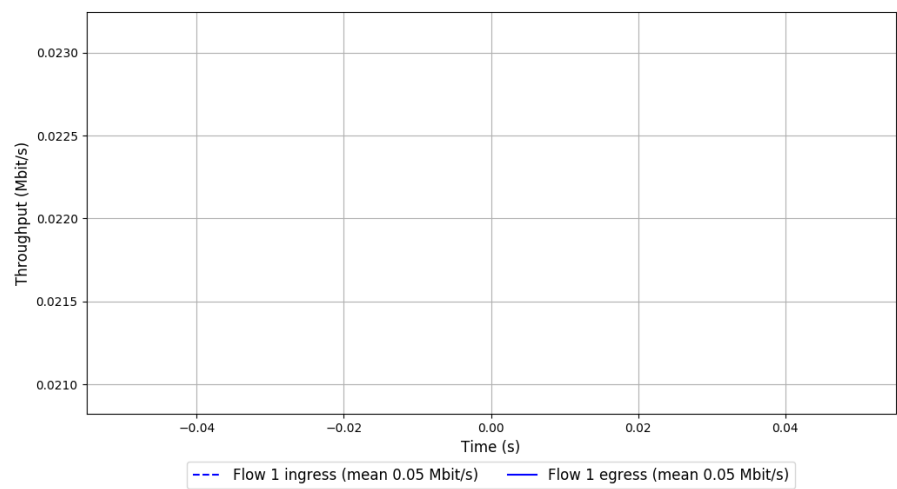


Run 1: Statistics of QUIC Cubic

Start at: 2018-02-12 19:31:33

End at: 2018-02-12 19:32:03

Run 1: Report of QUIC Cubic — Data Link

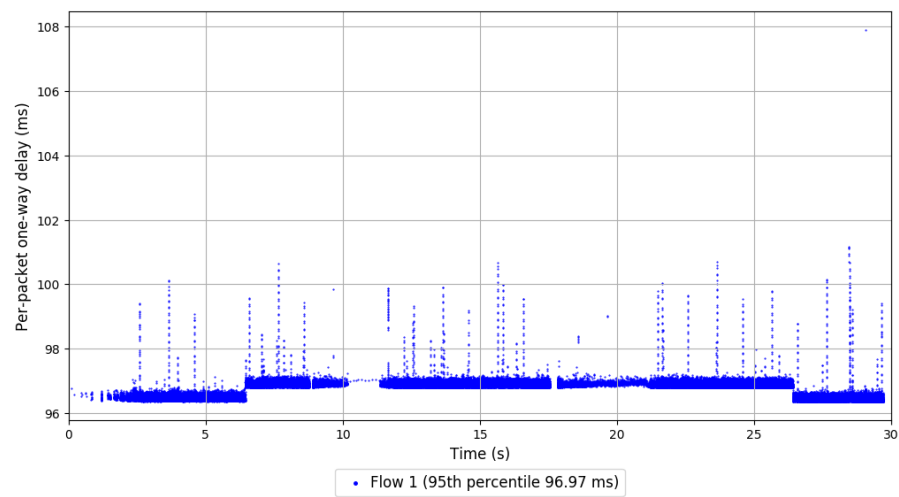
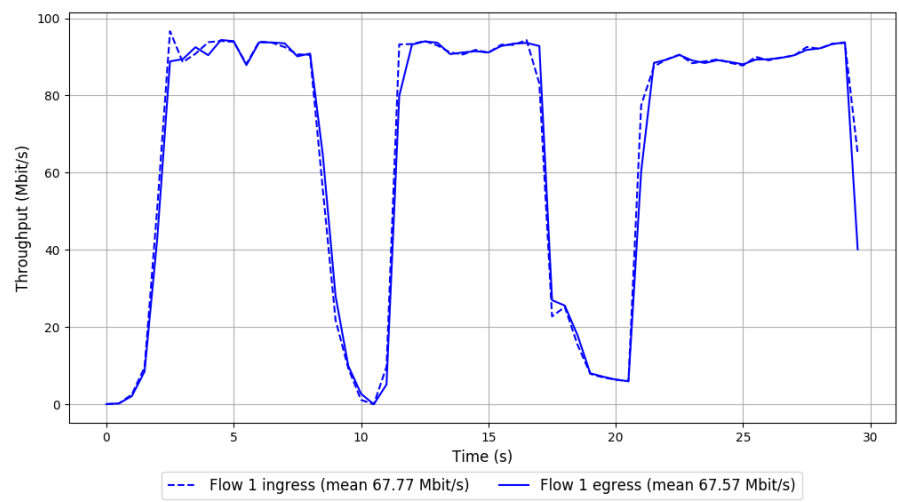


```
Run 2: Statistics of QUIC Cubic

Start at: 2018-02-12 19:47:23
End at: 2018-02-12 19:47:53

# Below is generated by plot.py at 2018-02-13 00:59:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.57 Mbit/s
95th percentile per-packet one-way delay: 96.973 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 67.57 Mbit/s
95th percentile per-packet one-way delay: 96.973 ms
Loss rate: 1.05%
```

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

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

End at: 2018-02-12 20:03:07

Below is generated by plot.py at 2018-02-13 00:59:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.38 Mbit/s

95th percentile per-packet one-way delay: 89.448 ms

Loss rate: 1.05%

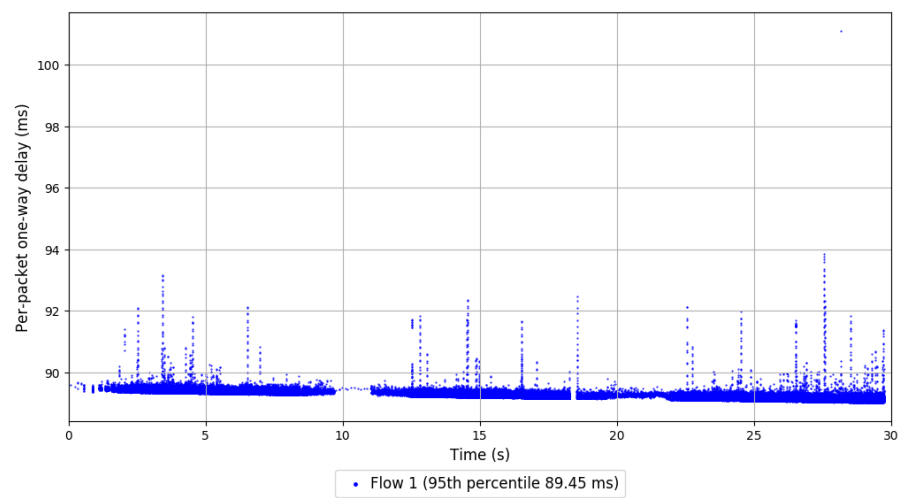
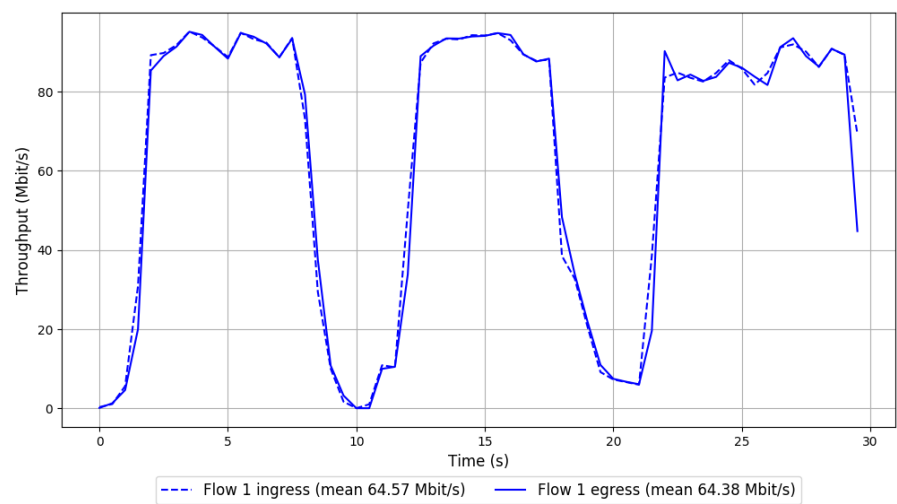
-- Flow 1:

Average throughput: 64.38 Mbit/s

95th percentile per-packet one-way delay: 89.448 ms

Loss rate: 1.05%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-12 20:18:04

End at: 2018-02-12 20:18:34

Below is generated by plot.py at 2018-02-13 00:59:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.91 Mbit/s

95th percentile per-packet one-way delay: 95.307 ms

Loss rate: 0.97%

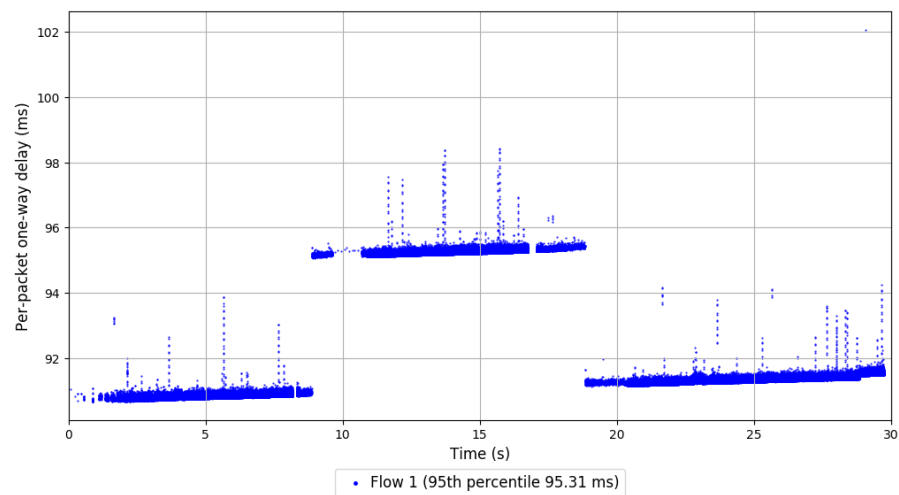
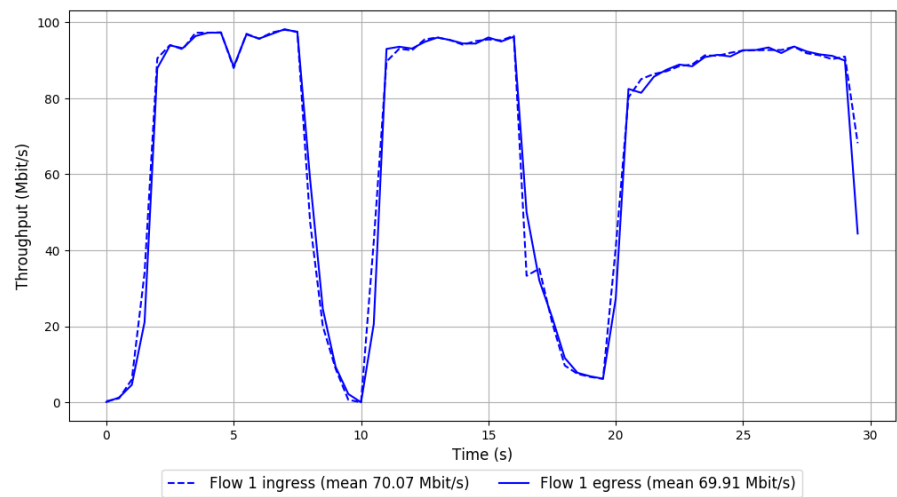
-- Flow 1:

Average throughput: 69.91 Mbit/s

95th percentile per-packet one-way delay: 95.307 ms

Loss rate: 0.97%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-12 20:33:38

End at: 2018-02-12 20:34:08

Below is generated by plot.py at 2018-02-13 00:59:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.66 Mbit/s

95th percentile per-packet one-way delay: 99.929 ms

Loss rate: 1.07%

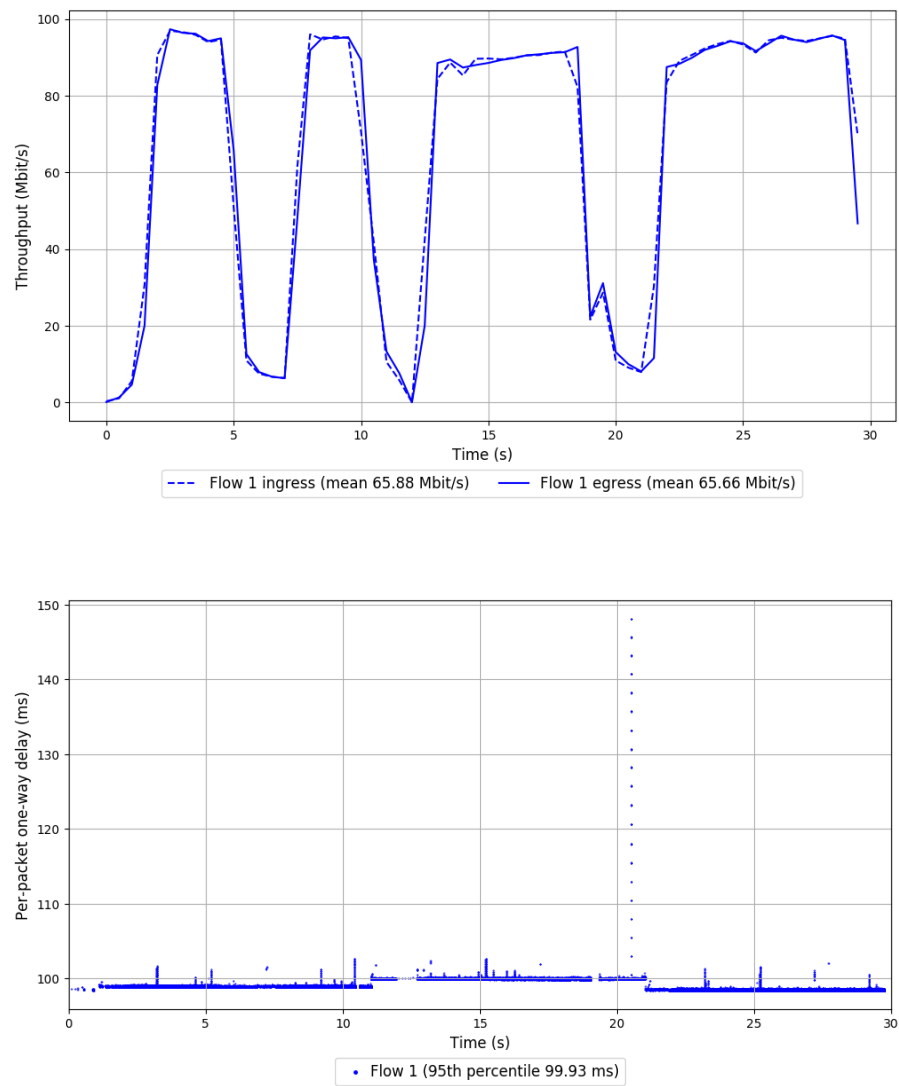
-- Flow 1:

Average throughput: 65.66 Mbit/s

95th percentile per-packet one-way delay: 99.929 ms

Loss rate: 1.07%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-12 20:49:16

End at: 2018-02-12 20:49:46

Below is generated by plot.py at 2018-02-13 00:59:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.47 Mbit/s

95th percentile per-packet one-way delay: 97.843 ms

Loss rate: 0.96%

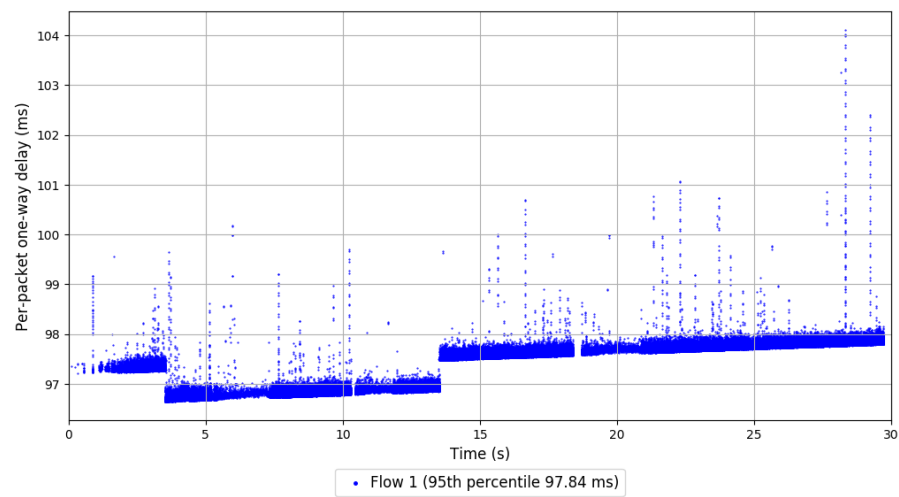
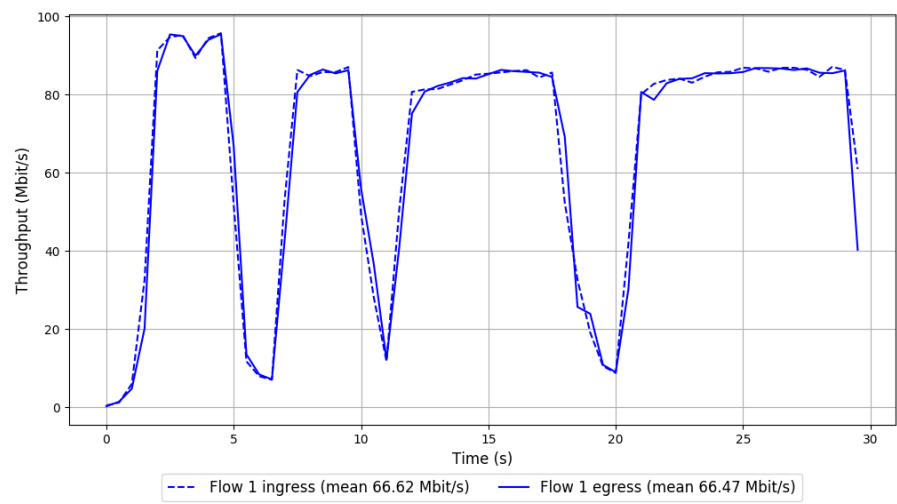
-- Flow 1:

Average throughput: 66.47 Mbit/s

95th percentile per-packet one-way delay: 97.843 ms

Loss rate: 0.96%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-12 21:05:10

End at: 2018-02-12 21:05:40

Below is generated by plot.py at 2018-02-13 00:59:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.24 Mbit/s

95th percentile per-packet one-way delay: 104.810 ms

Loss rate: 1.04%

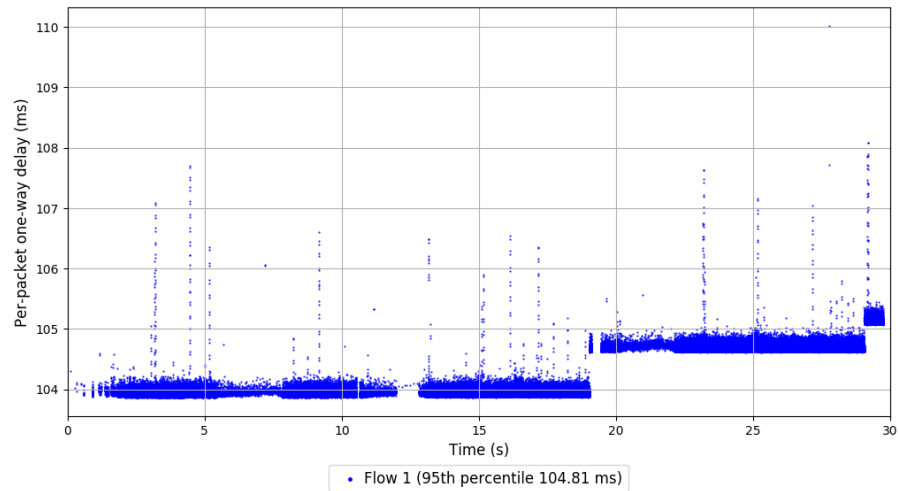
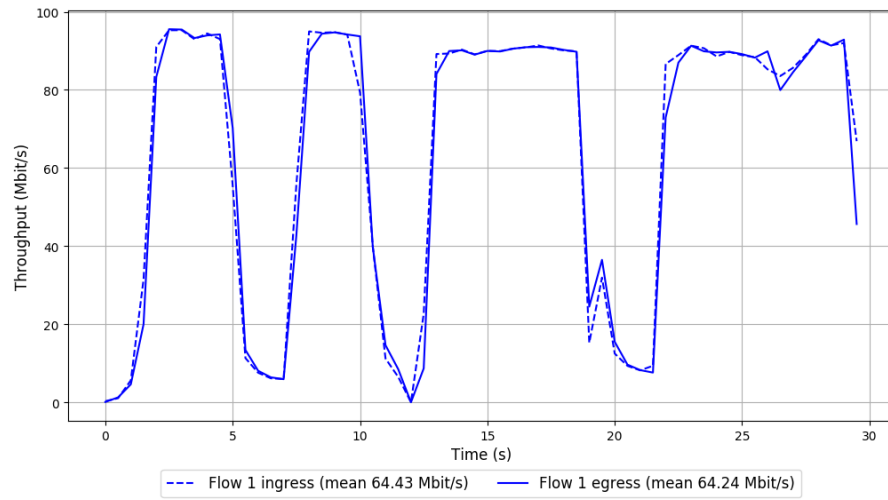
-- Flow 1:

Average throughput: 64.24 Mbit/s

95th percentile per-packet one-way delay: 104.810 ms

Loss rate: 1.04%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-12 21:20:30

End at: 2018-02-12 21:21:00

Below is generated by plot.py at 2018-02-13 00:59:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.35 Mbit/s

95th percentile per-packet one-way delay: 104.871 ms

Loss rate: 1.01%

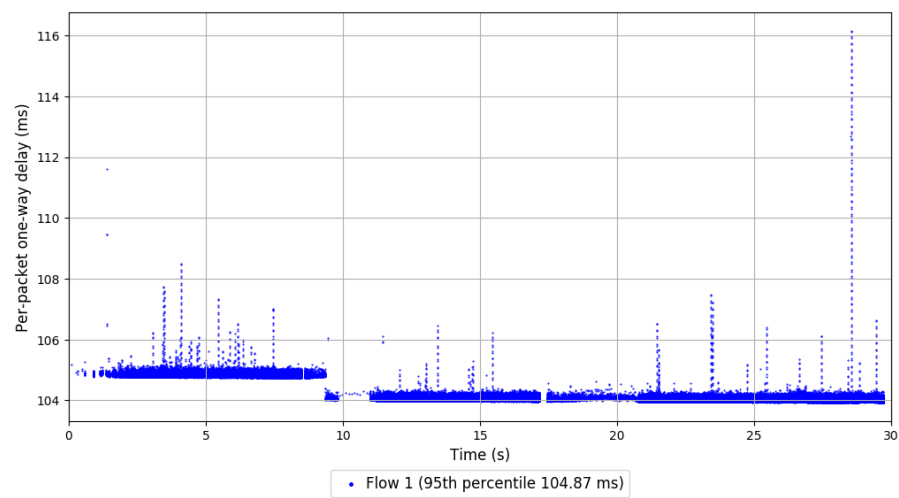
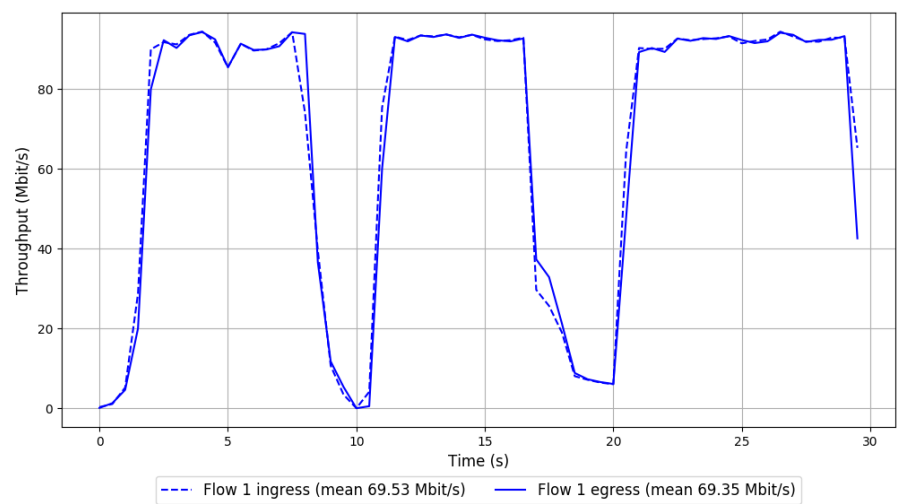
-- Flow 1:

Average throughput: 69.35 Mbit/s

95th percentile per-packet one-way delay: 104.871 ms

Loss rate: 1.01%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-12 21:36:01

End at: 2018-02-12 21:36:31

Below is generated by plot.py at 2018-02-13 00:59:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.75 Mbit/s

95th percentile per-packet one-way delay: 107.900 ms

Loss rate: 1.01%

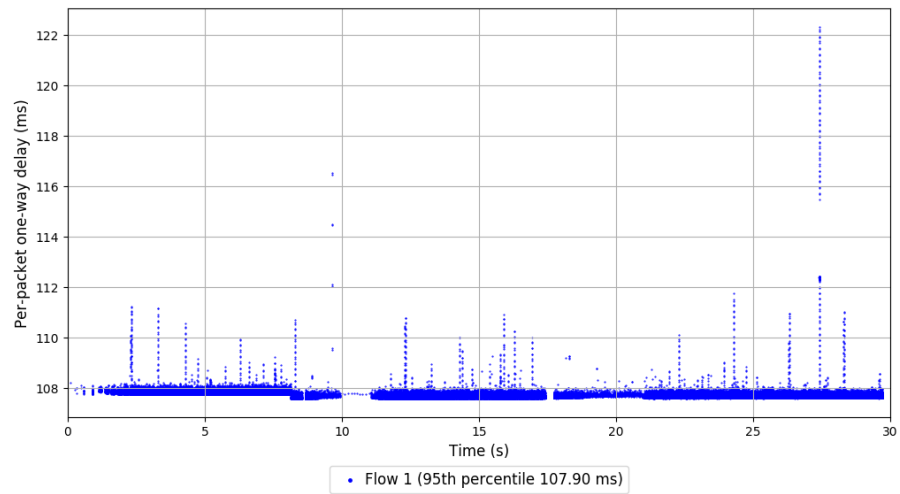
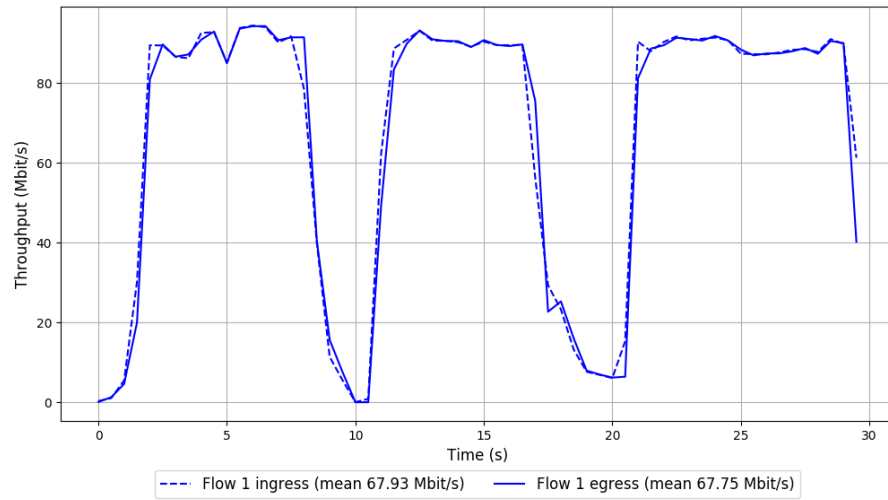
-- Flow 1:

Average throughput: 67.75 Mbit/s

95th percentile per-packet one-way delay: 107.900 ms

Loss rate: 1.01%

Run 9: Report of QUIC Cubic — Data Link

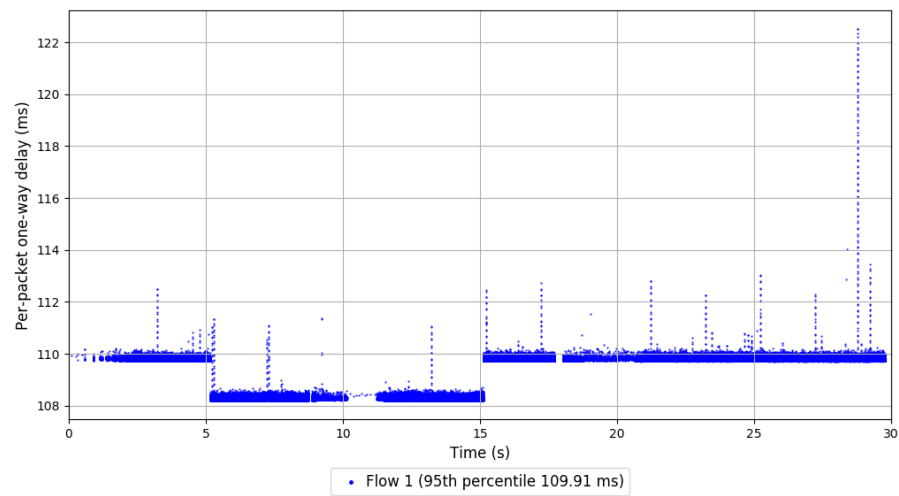
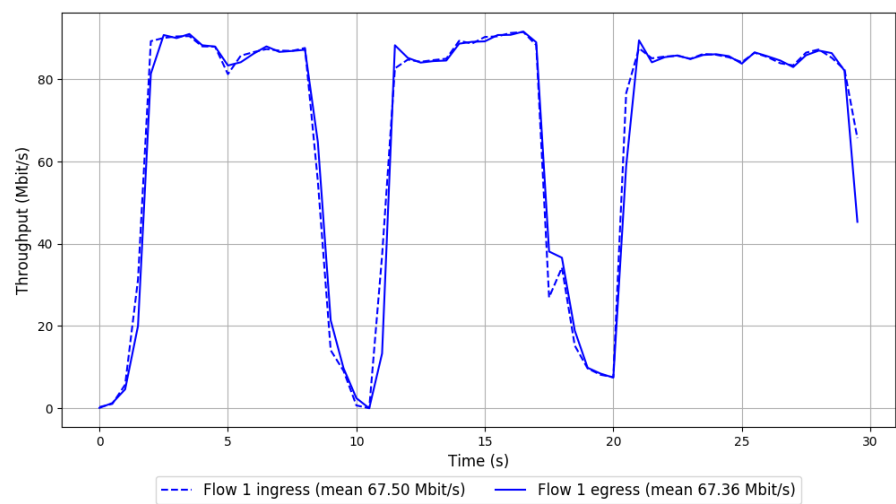


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-02-12 21:51:24
End at: 2018-02-12 21:51:54

# Below is generated by plot.py at 2018-02-13 00:59:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.36 Mbit/s
95th percentile per-packet one-way delay: 109.912 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 67.36 Mbit/s
95th percentile per-packet one-way delay: 109.912 ms
Loss rate: 0.96%
```

Run 10: Report of QUIC Cubic — Data Link

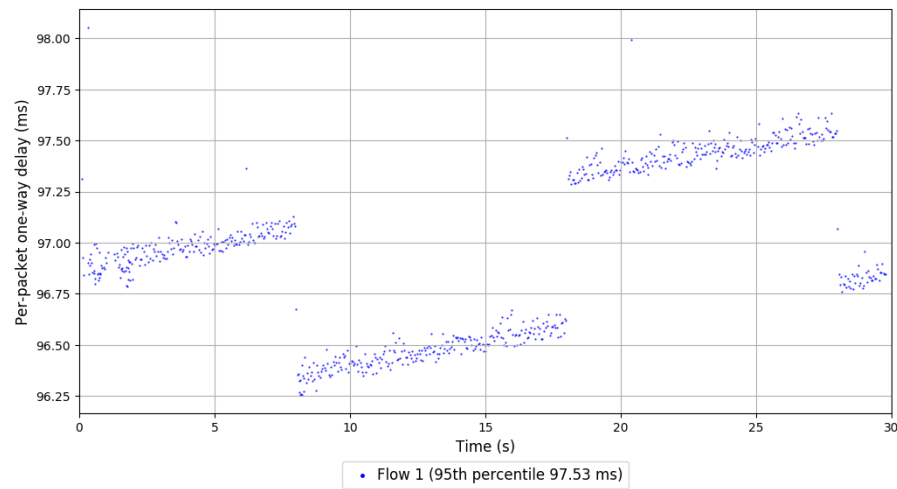
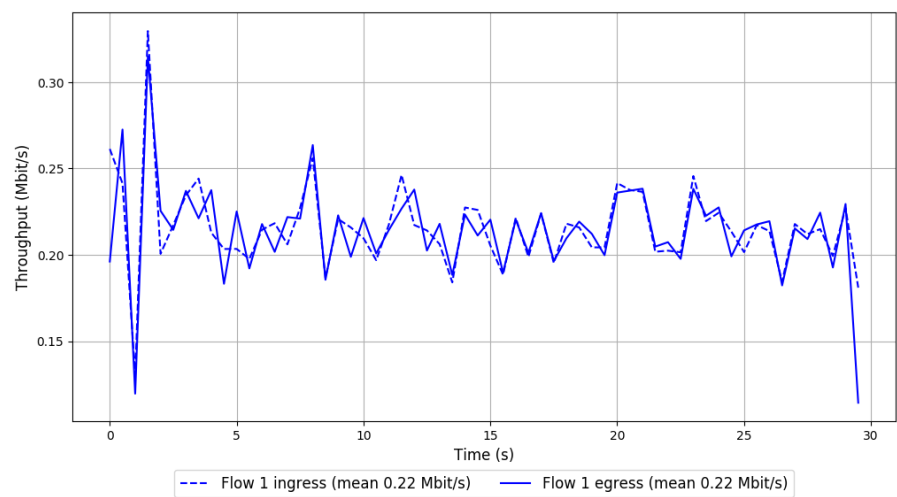


```
Run 1: Statistics of SCReAM

Start at: 2018-02-12 19:22:35
End at: 2018-02-12 19:23:05

# Below is generated by plot.py at 2018-02-13 00:59:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 97.528 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 97.528 ms
Loss rate: 0.76%
```

Run 1: Report of SReAM — Data Link

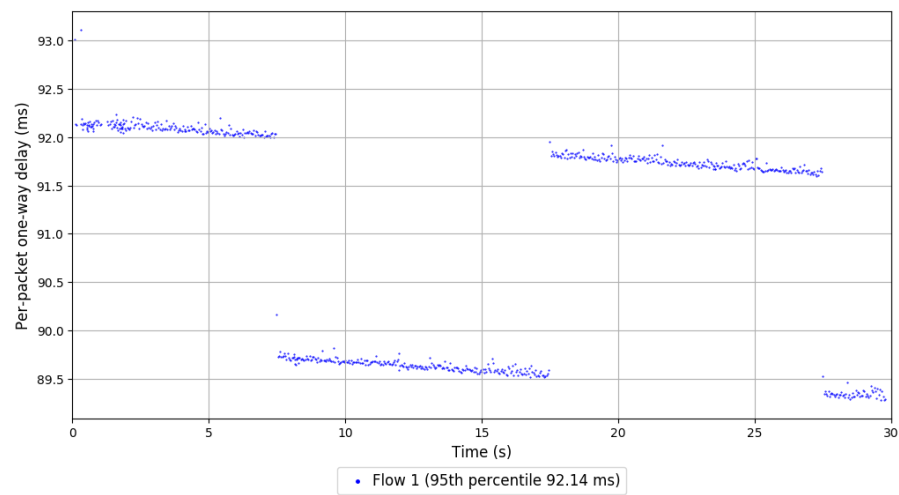
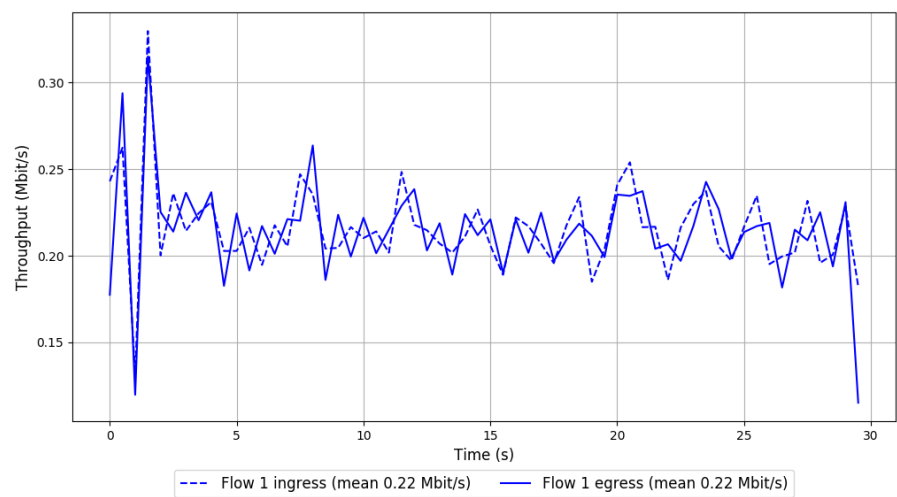


```
Run 2: Statistics of SCReAM

Start at: 2018-02-12 19:38:02
End at: 2018-02-12 19:38:32

# Below is generated by plot.py at 2018-02-13 00:59:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 92.137 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 92.137 ms
Loss rate: 0.77%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-02-12 19:53:49

End at: 2018-02-12 19:54:19

Below is generated by plot.py at 2018-02-13 00:59:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 95.058 ms

Loss rate: 0.76%

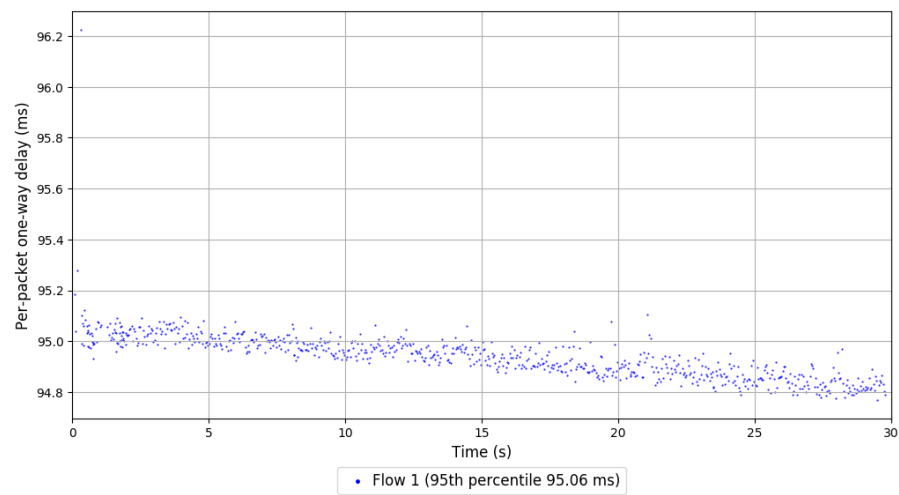
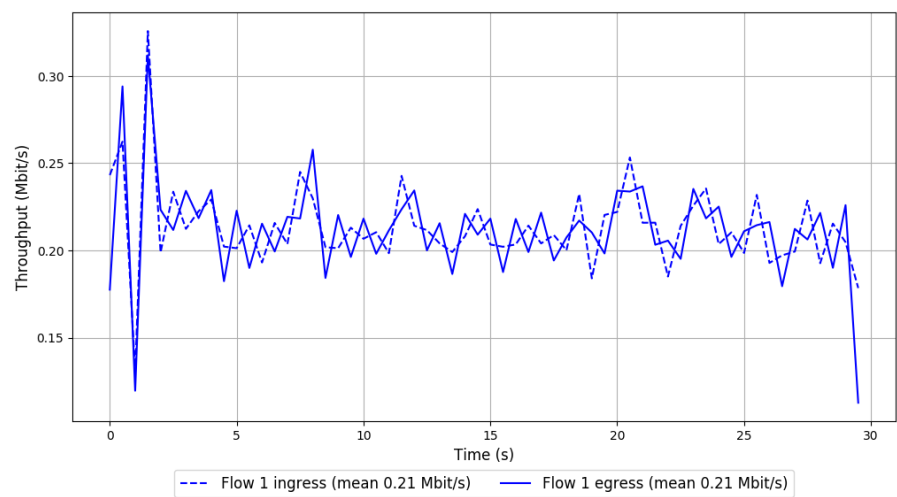
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 95.058 ms

Loss rate: 0.76%

Run 3: Report of SReAM — Data Link

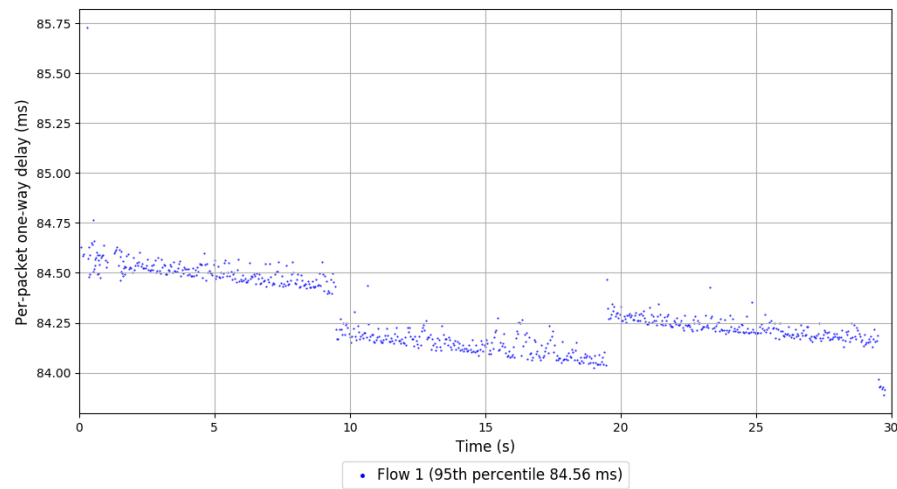
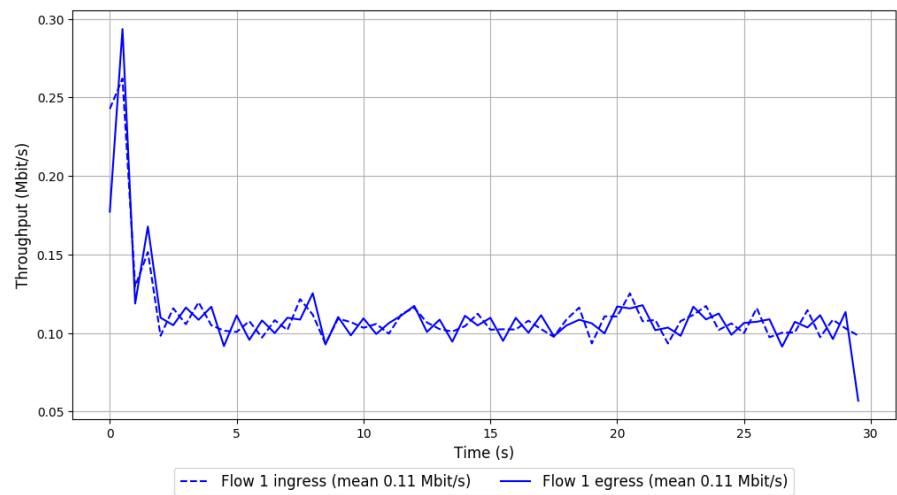


```
Run 4: Statistics of SCReAM

Start at: 2018-02-12 20:09:00
End at: 2018-02-12 20:09:30

# Below is generated by plot.py at 2018-02-13 00:59:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 84.562 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 84.562 ms
Loss rate: 0.86%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-12 20:24:24

End at: 2018-02-12 20:24:54

Below is generated by plot.py at 2018-02-13 00:59:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 97.328 ms

Loss rate: 0.77%

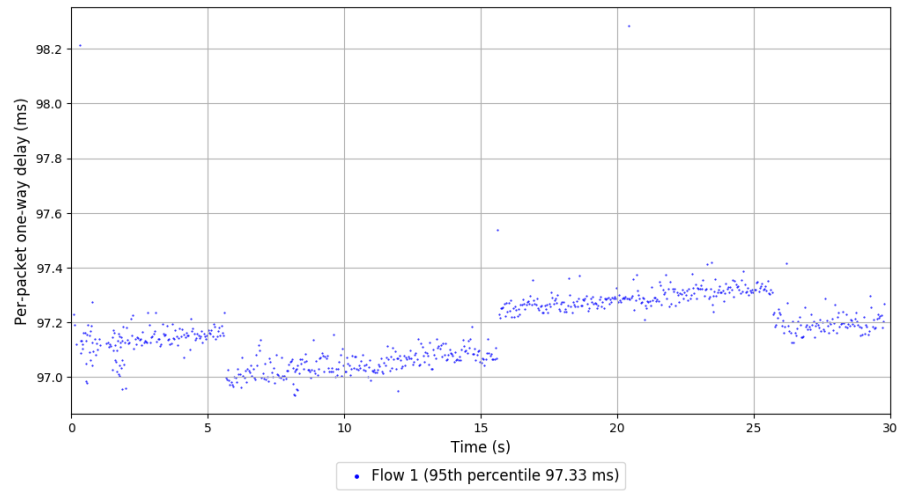
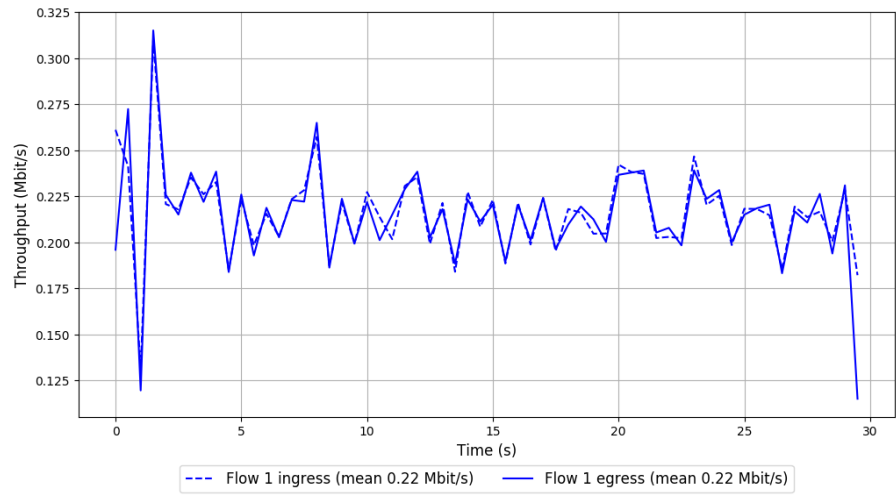
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 97.328 ms

Loss rate: 0.77%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-02-12 20:40:08

End at: 2018-02-12 20:40:38

Below is generated by plot.py at 2018-02-13 00:59:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 98.747 ms

Loss rate: 0.64%

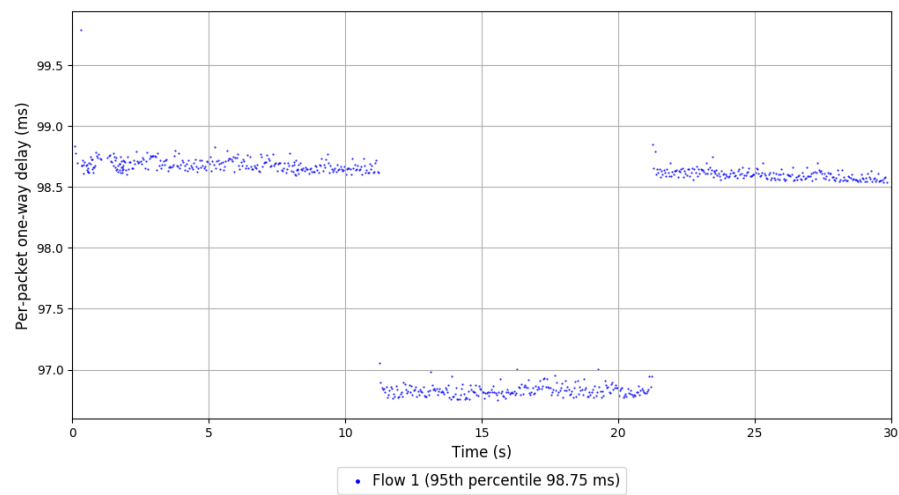
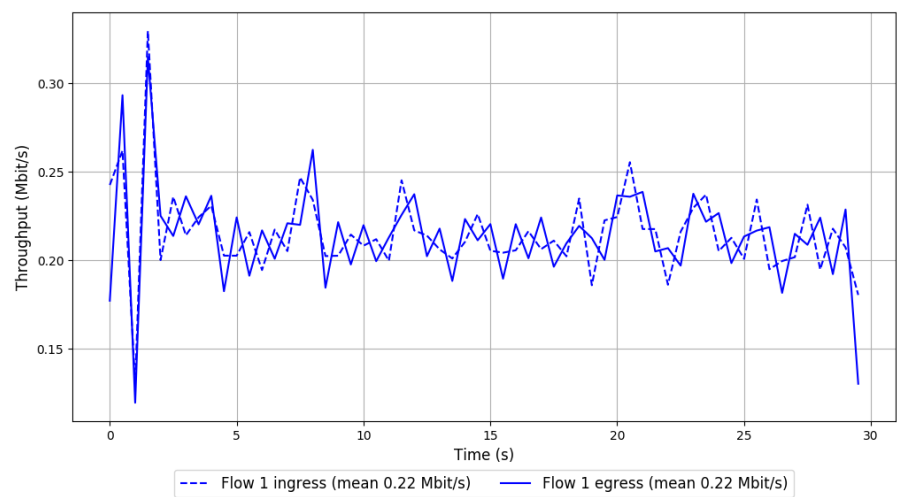
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 98.747 ms

Loss rate: 0.64%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-02-12 20:55:42

End at: 2018-02-12 20:56:13

Below is generated by plot.py at 2018-02-13 00:59:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 104.841 ms

Loss rate: 0.61%

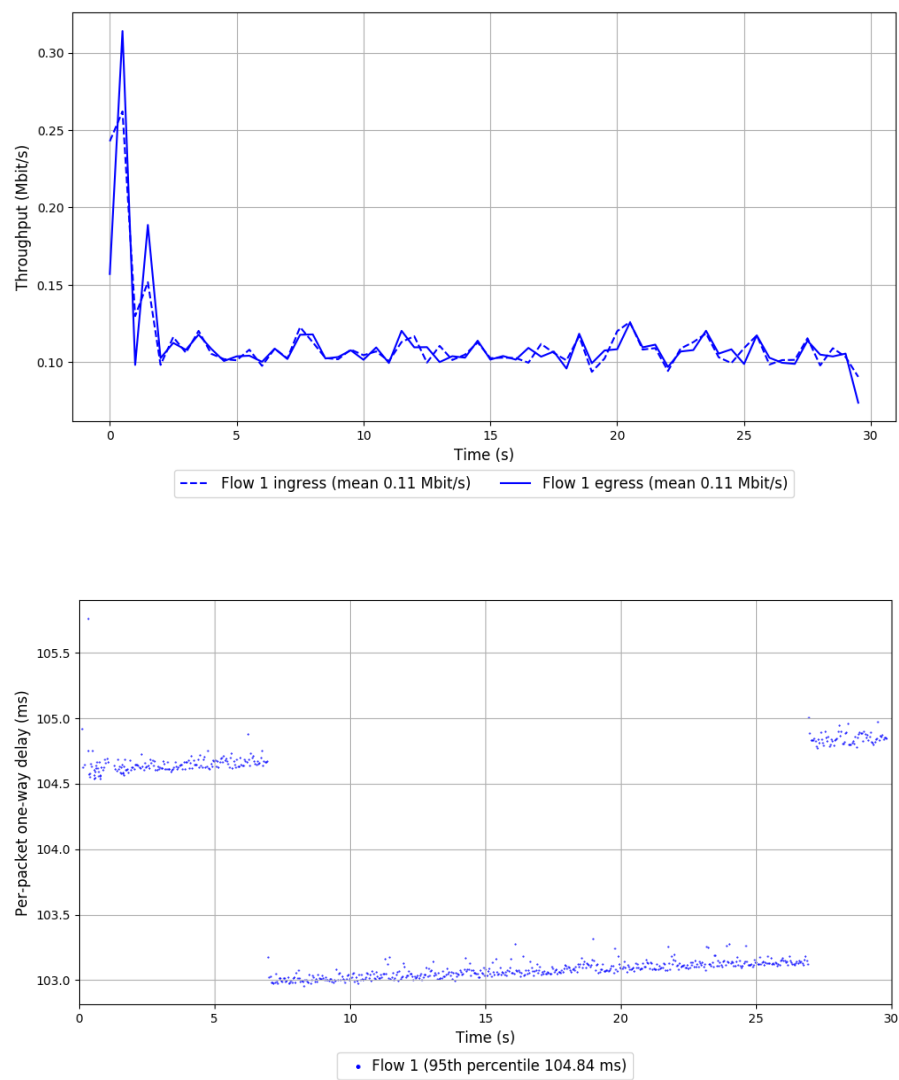
-- Flow 1:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 104.841 ms

Loss rate: 0.61%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-12 21:11:28

End at: 2018-02-12 21:11:58

Below is generated by plot.py at 2018-02-13 00:59:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 106.347 ms

Loss rate: 0.76%

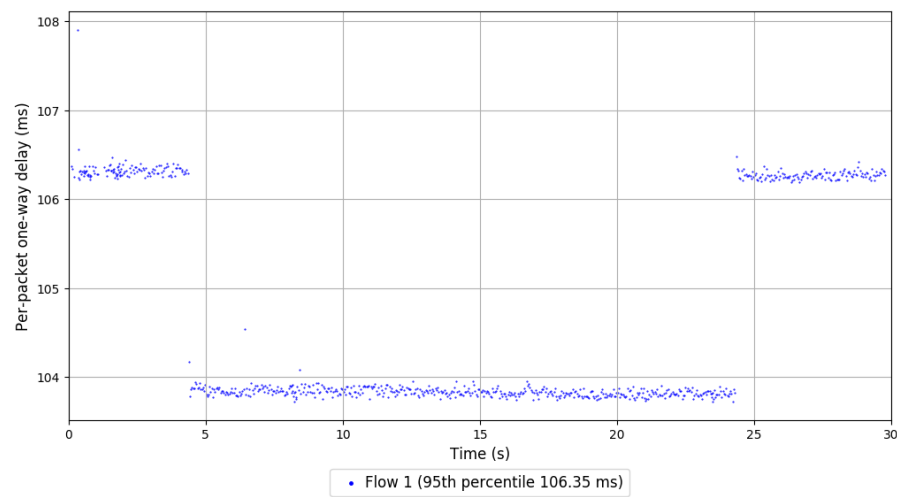
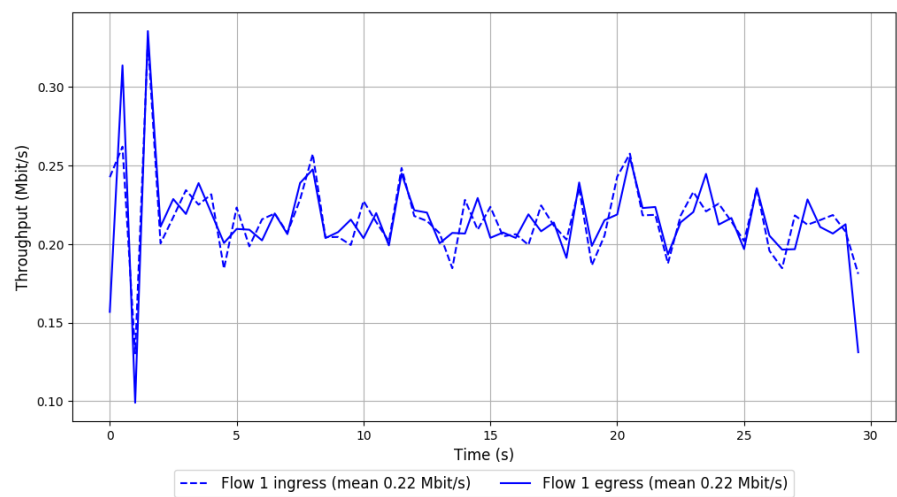
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 106.347 ms

Loss rate: 0.76%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-02-12 21:26:53

End at: 2018-02-12 21:27:23

Below is generated by plot.py at 2018-02-13 00:59:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 108.421 ms

Loss rate: 0.64%

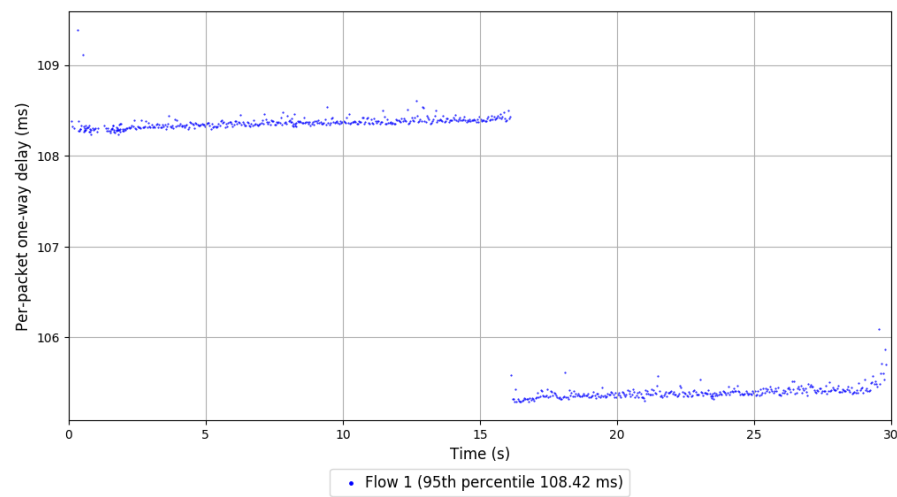
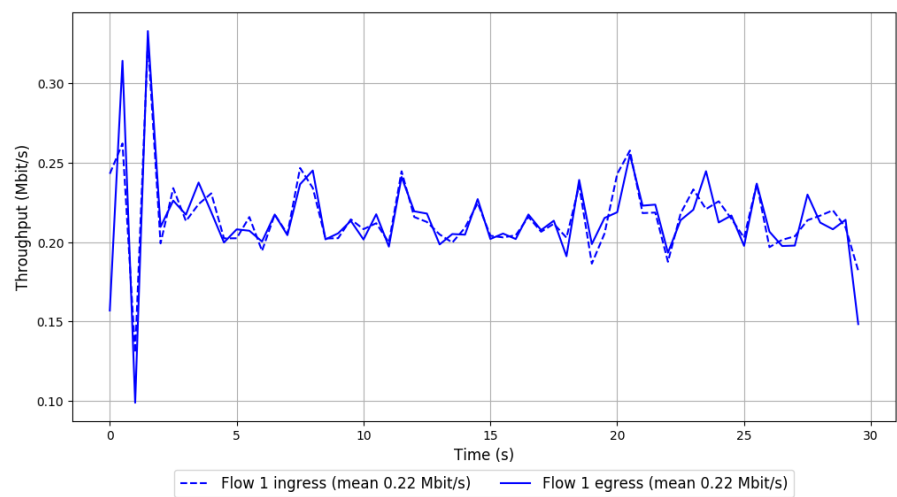
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 108.421 ms

Loss rate: 0.64%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-12 21:42:30

End at: 2018-02-12 21:43:00

Below is generated by plot.py at 2018-02-13 00:59:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.163 ms

Loss rate: 0.77%

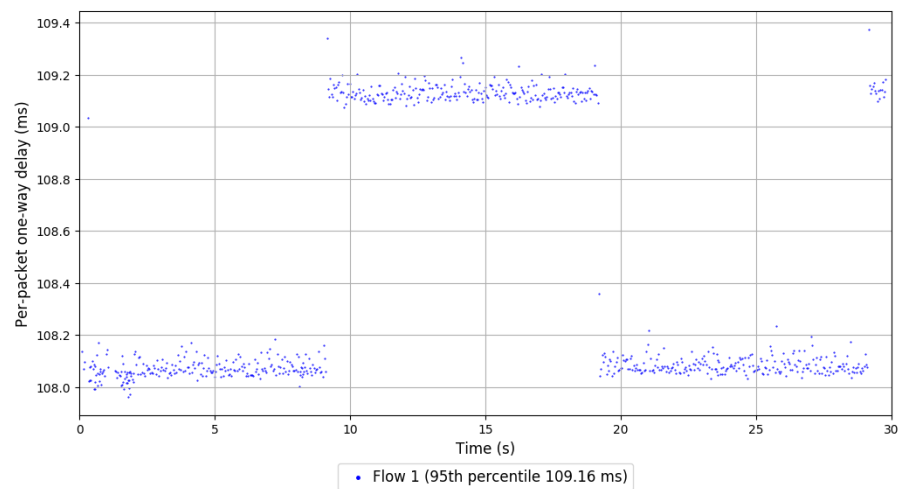
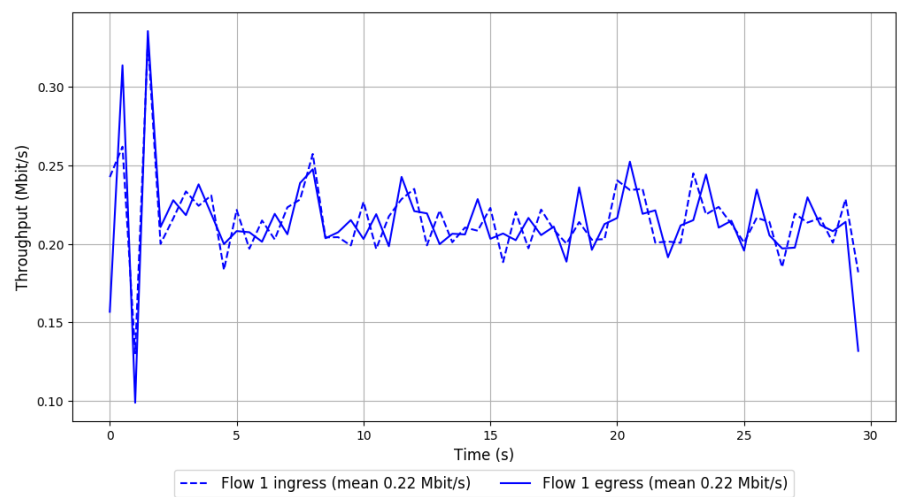
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.163 ms

Loss rate: 0.77%

Run 10: Report of SReAM — Data Link

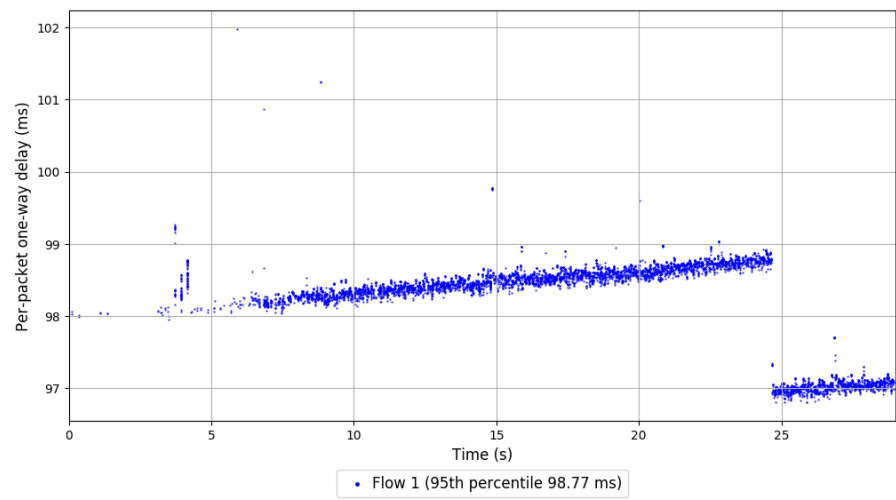
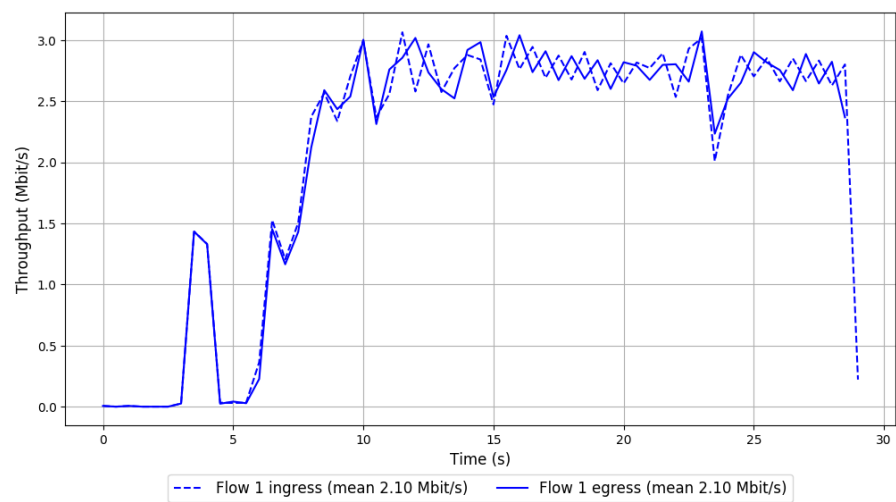


```
Run 1: Statistics of WebRTC media

Start at: 2018-02-12 19:21:54
End at: 2018-02-12 19:22:24

# Below is generated by plot.py at 2018-02-13 00:59:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 98.771 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 98.771 ms
Loss rate: 0.89%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-12 19:37:21

End at: 2018-02-12 19:37:51

Below is generated by plot.py at 2018-02-13 00:59:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 92.994 ms

Loss rate: 0.87%

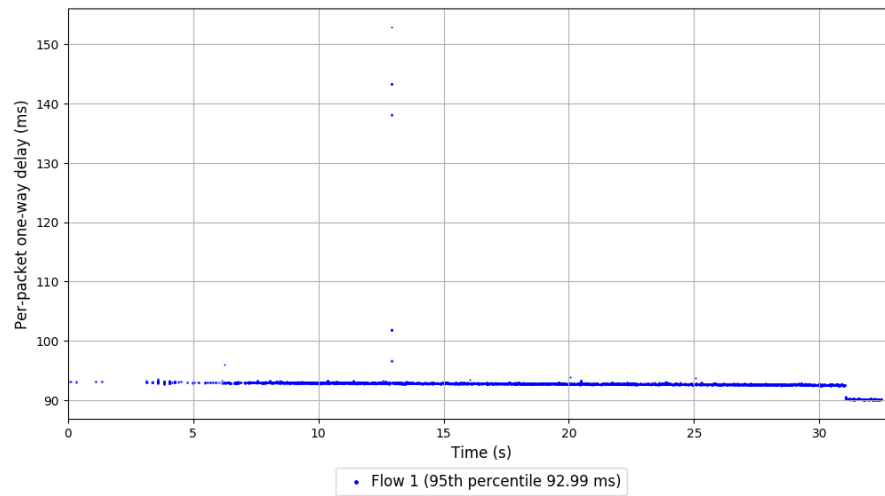
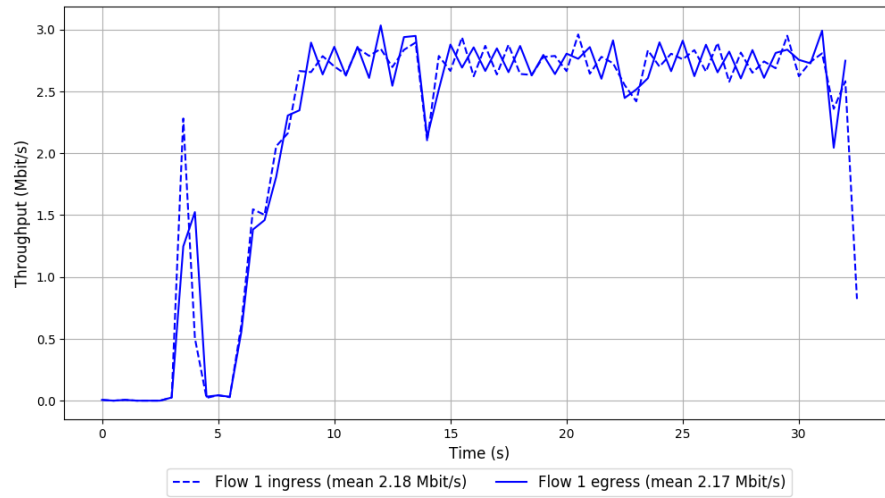
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 92.994 ms

Loss rate: 0.87%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-12 19:53:08

End at: 2018-02-12 19:53:38

Below is generated by plot.py at 2018-02-13 00:59:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 94.512 ms

Loss rate: 0.91%

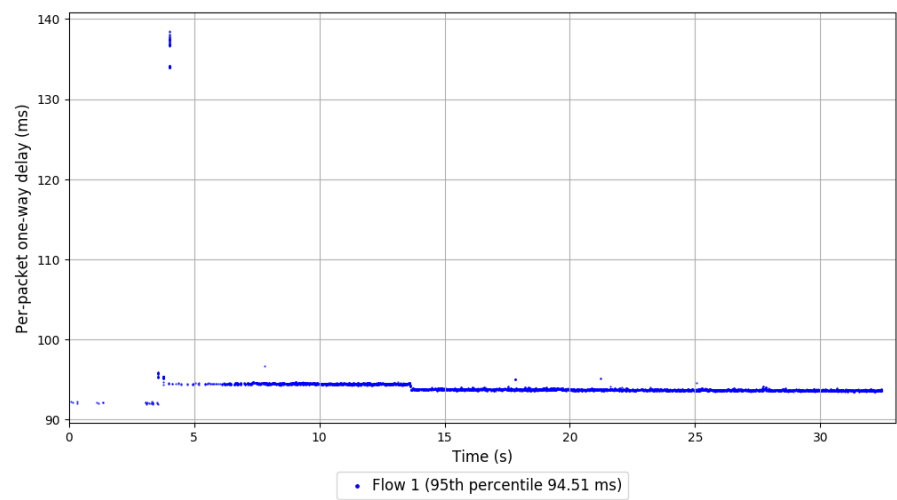
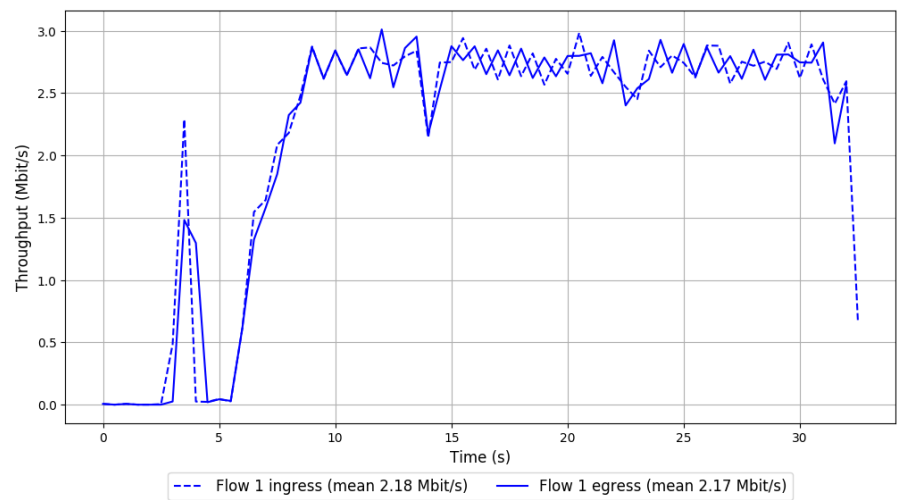
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 94.512 ms

Loss rate: 0.91%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-12 20:08:19

End at: 2018-02-12 20:08:49

Below is generated by plot.py at 2018-02-13 00:59:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 85.188 ms

Loss rate: 0.92%

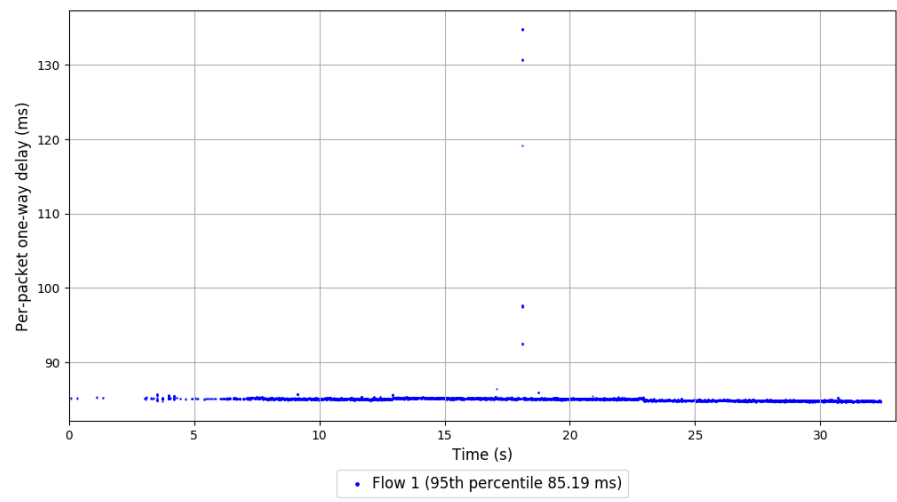
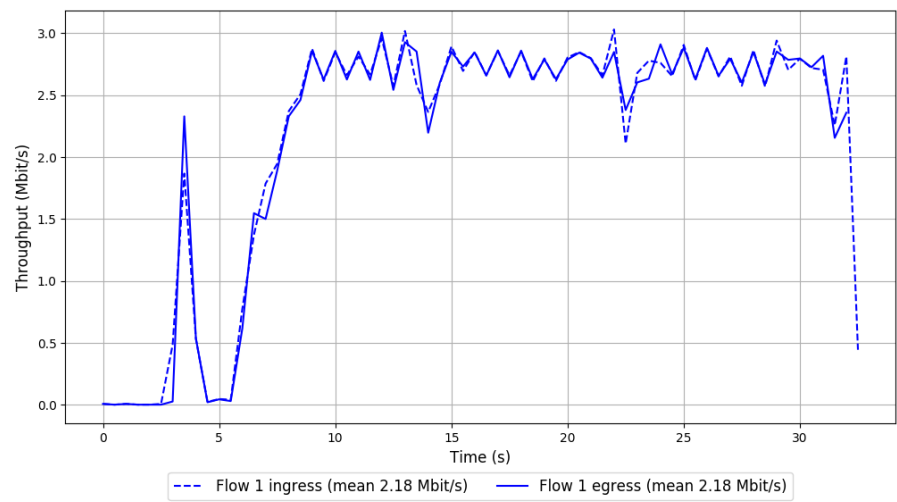
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 85.188 ms

Loss rate: 0.92%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-12 20:23:43

End at: 2018-02-12 20:24:13

Below is generated by plot.py at 2018-02-13 00:59:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 98.963 ms

Loss rate: 0.92%

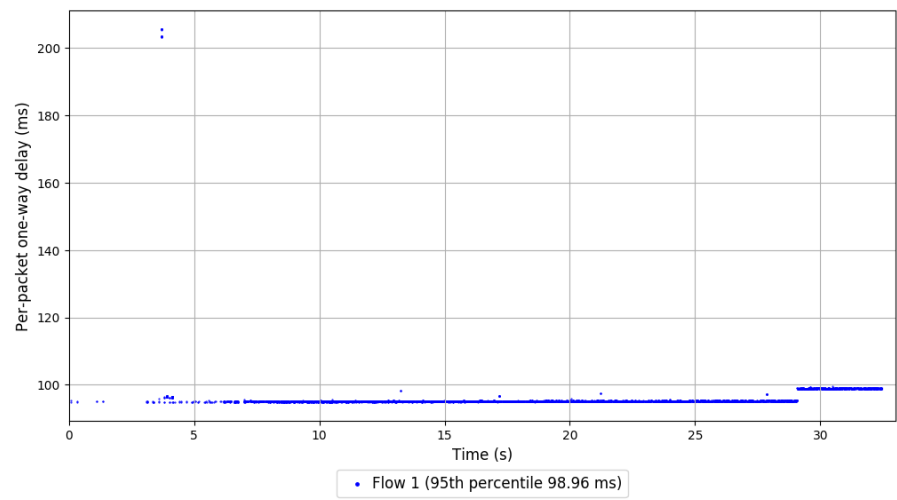
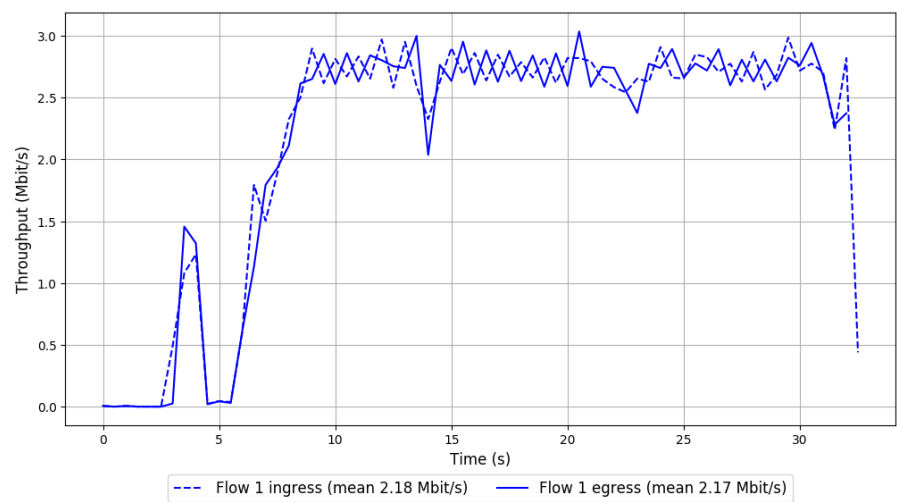
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 98.963 ms

Loss rate: 0.92%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-12 20:39:27

End at: 2018-02-12 20:39:57

Below is generated by plot.py at 2018-02-13 00:59:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 99.570 ms

Loss rate: 0.81%

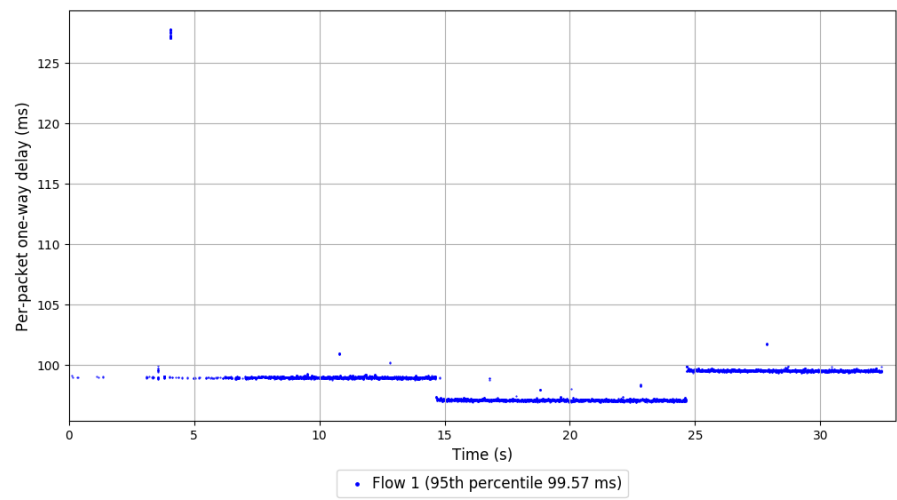
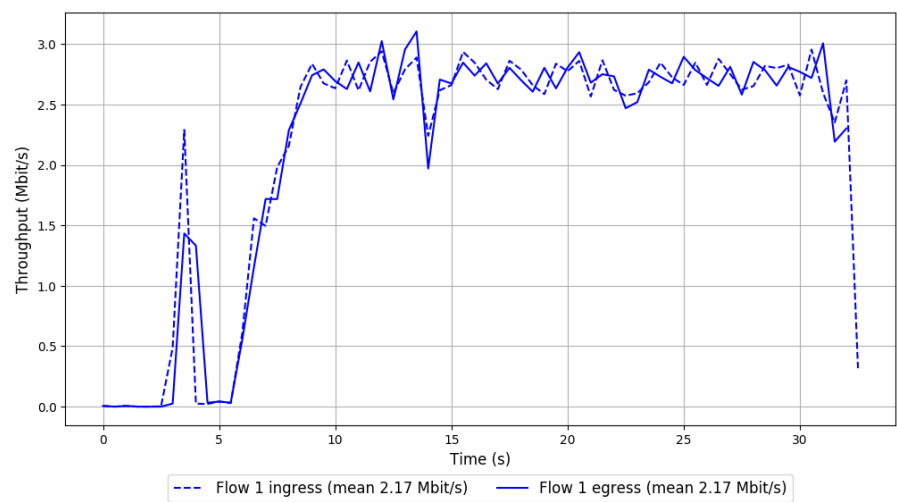
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 99.570 ms

Loss rate: 0.81%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

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

End at: 2018-02-12 20:55:32

Below is generated by plot.py at 2018-02-13 00:59:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 103.300 ms

Loss rate: 0.93%

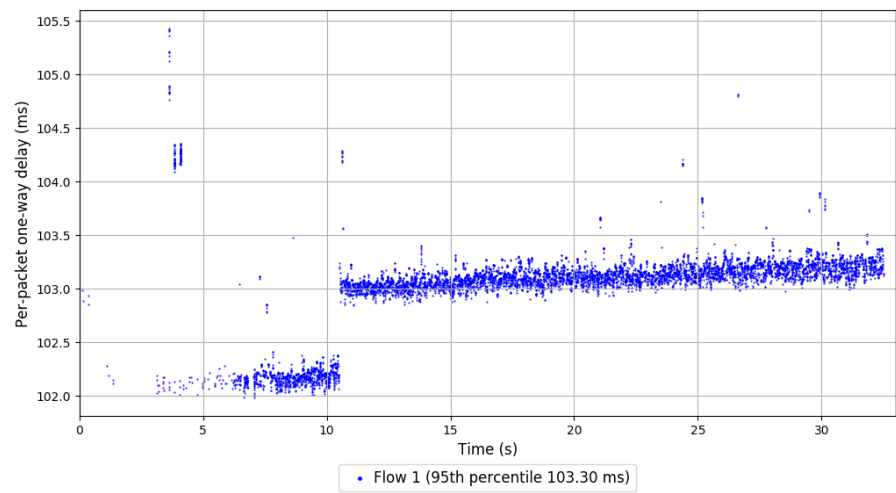
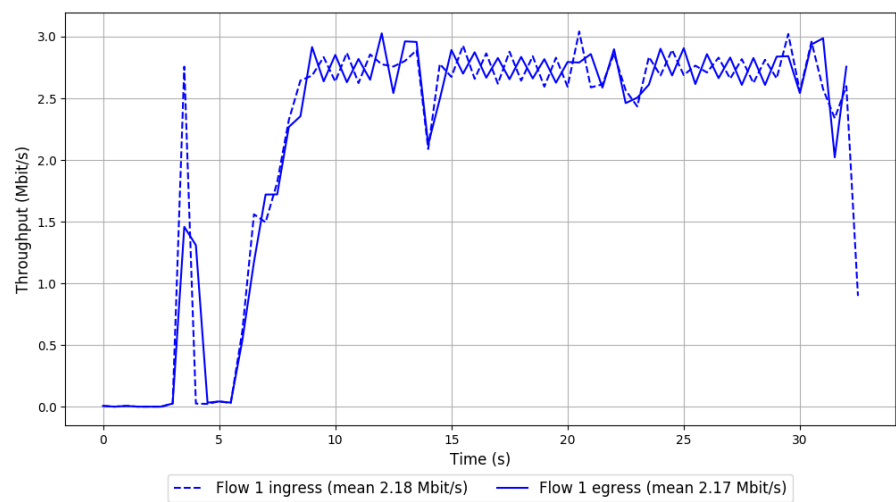
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 103.300 ms

Loss rate: 0.93%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-12 21:10:48

End at: 2018-02-12 21:11:18

Below is generated by plot.py at 2018-02-13 00:59:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 105.114 ms

Loss rate: 0.81%

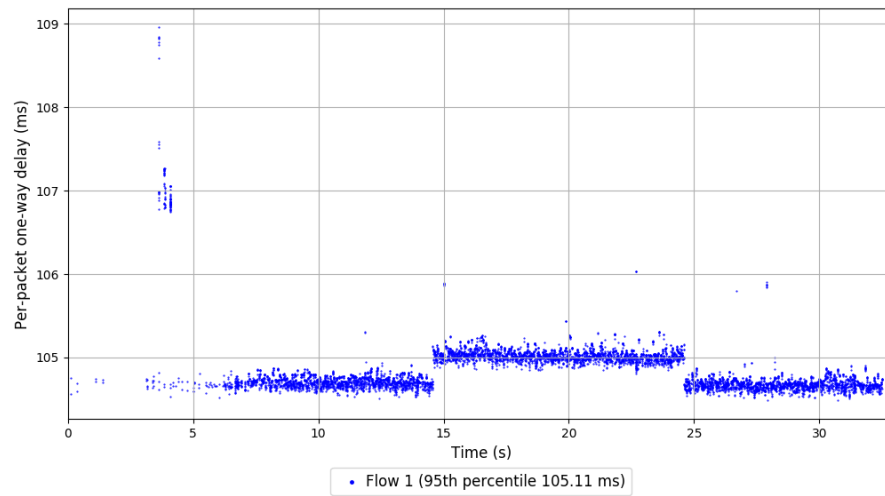
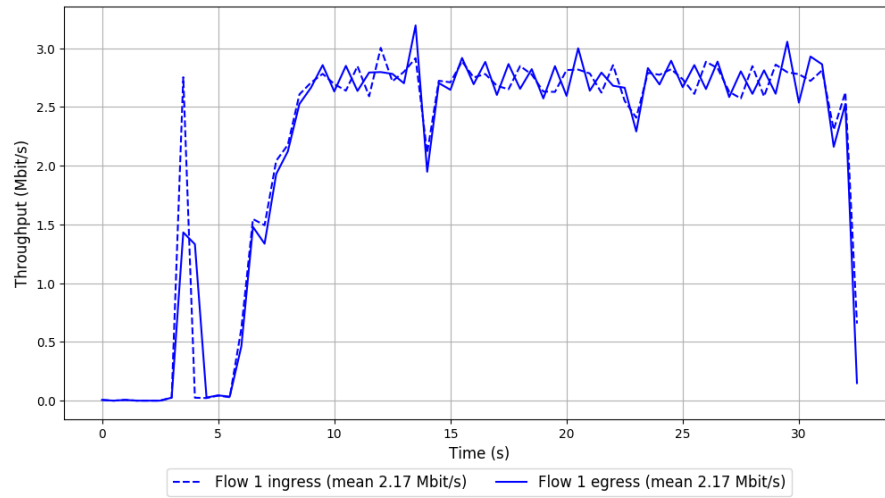
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 105.114 ms

Loss rate: 0.81%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-12 21:26:12

End at: 2018-02-12 21:26:42

Below is generated by plot.py at 2018-02-13 00:59:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 108.330 ms

Loss rate: 0.93%

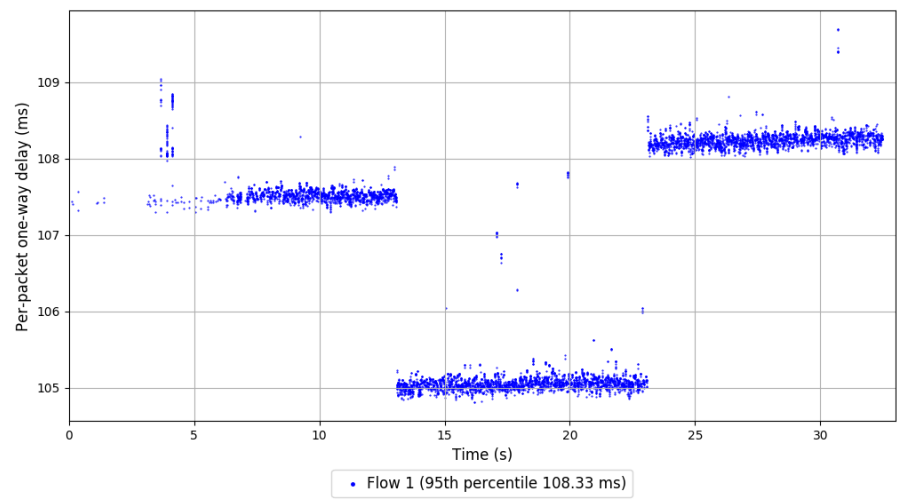
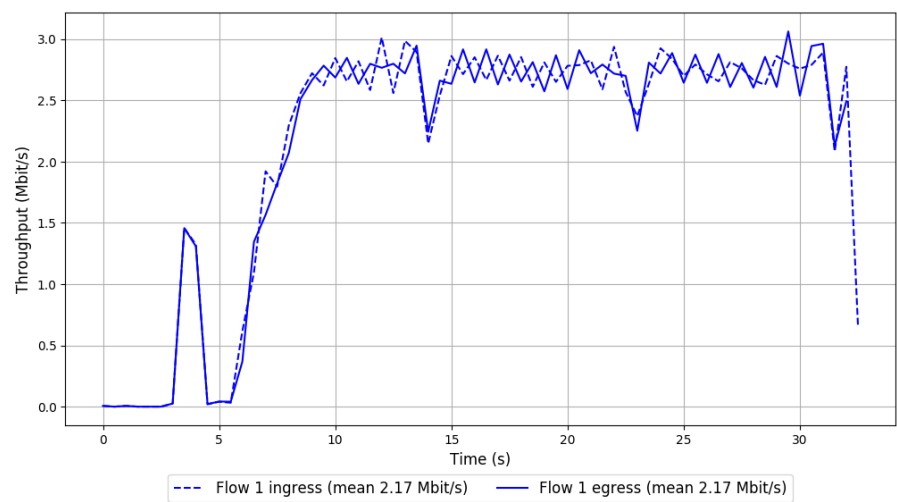
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 108.330 ms

Loss rate: 0.93%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-12 21:41:50

End at: 2018-02-12 21:42:20

Below is generated by plot.py at 2018-02-13 00:59:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 106.772 ms

Loss rate: 0.81%

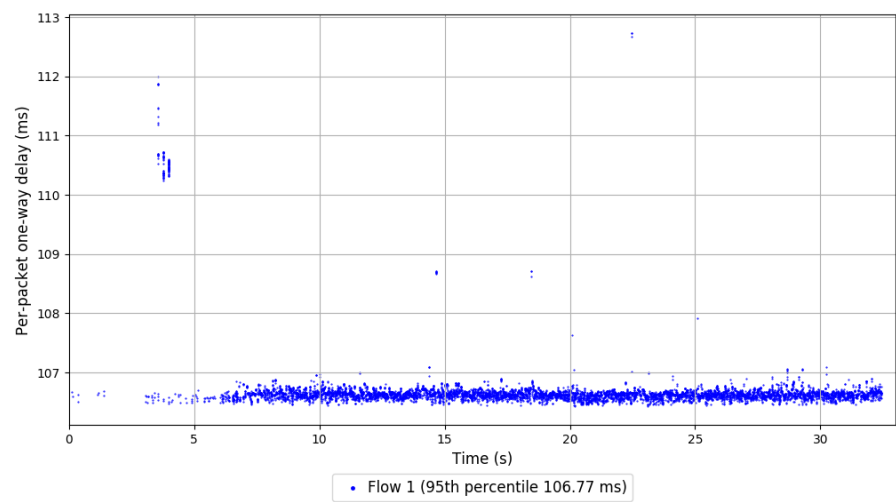
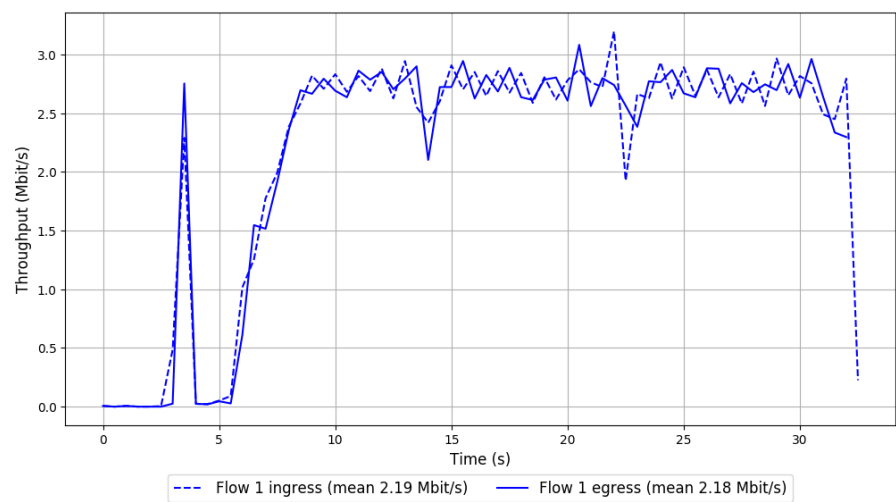
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 106.772 ms

Loss rate: 0.81%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-12 19:24:04

End at: 2018-02-12 19:24:34

Below is generated by plot.py at 2018-02-13 00:59:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 101.818 ms

Loss rate: 1.92%

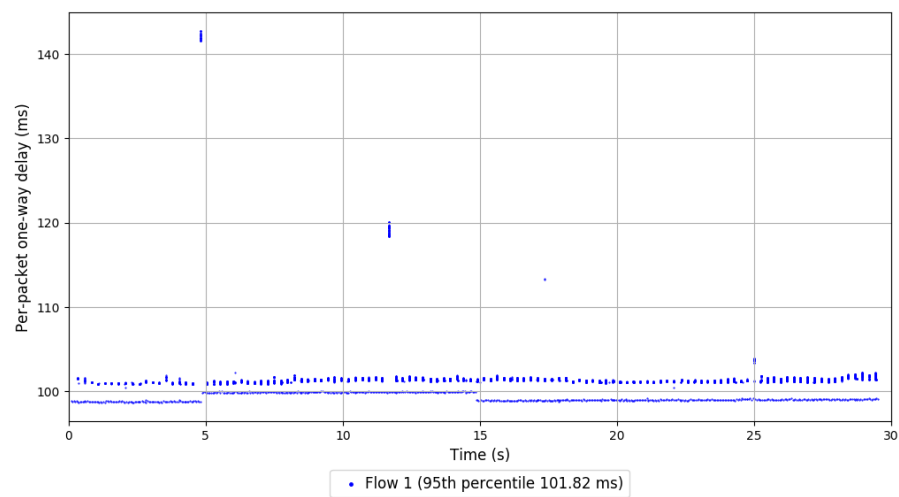
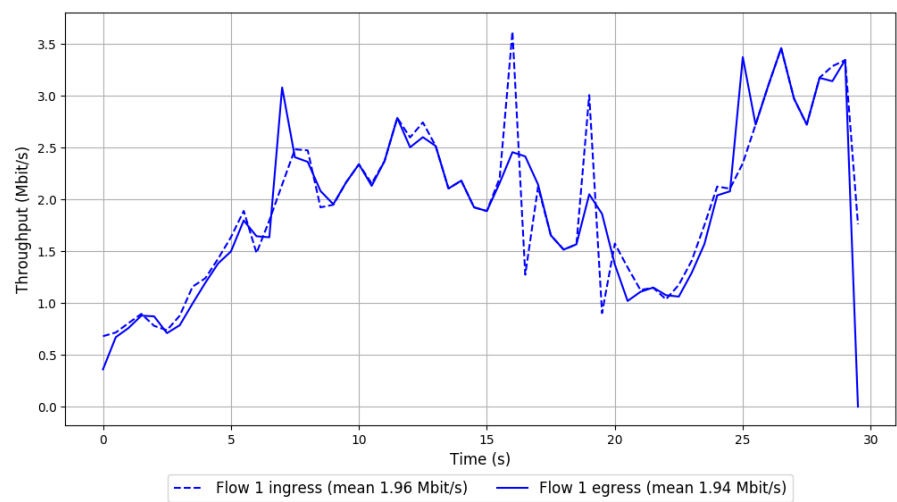
-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 101.818 ms

Loss rate: 1.92%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-12 19:39:37

End at: 2018-02-12 19:40:07

Below is generated by plot.py at 2018-02-13 00:59:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.49 Mbit/s

95th percentile per-packet one-way delay: 92.268 ms

Loss rate: 1.97%

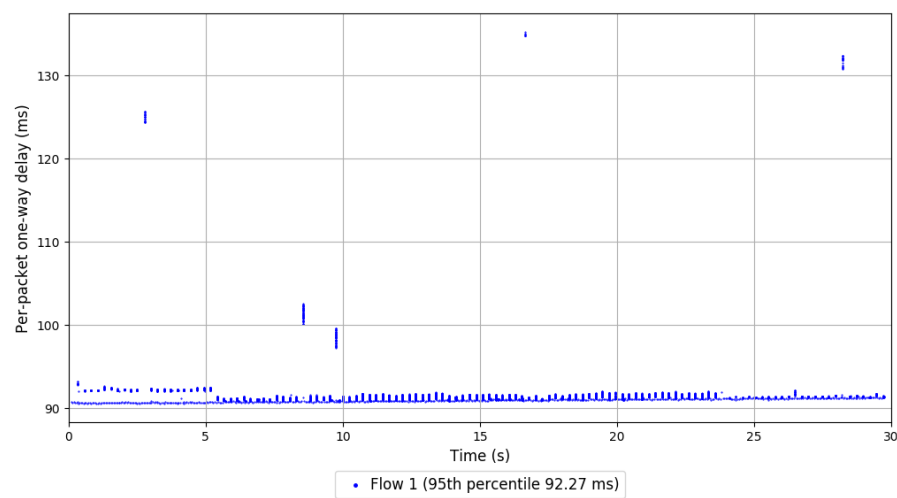
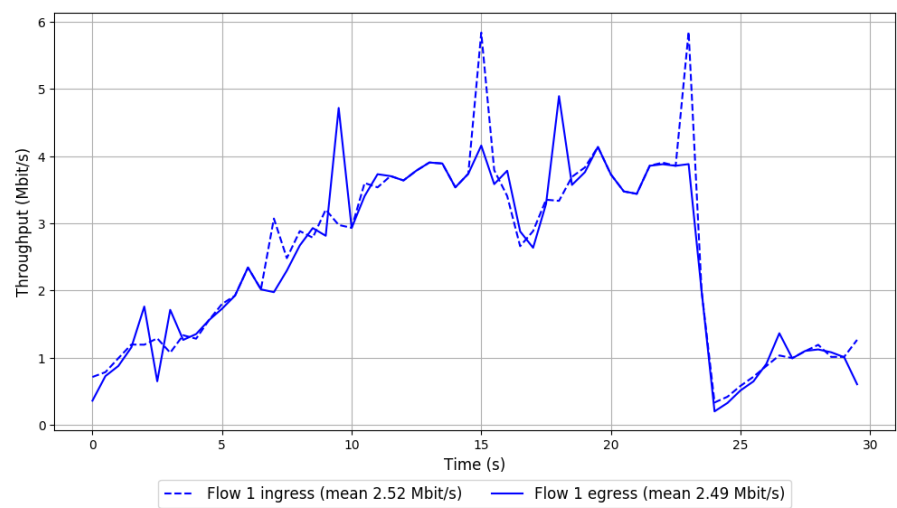
-- Flow 1:

Average throughput: 2.49 Mbit/s

95th percentile per-packet one-way delay: 92.268 ms

Loss rate: 1.97%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-12 19:55:21

End at: 2018-02-12 19:55:51

Below is generated by plot.py at 2018-02-13 00:59:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.68 Mbit/s

95th percentile per-packet one-way delay: 94.464 ms

Loss rate: 3.34%

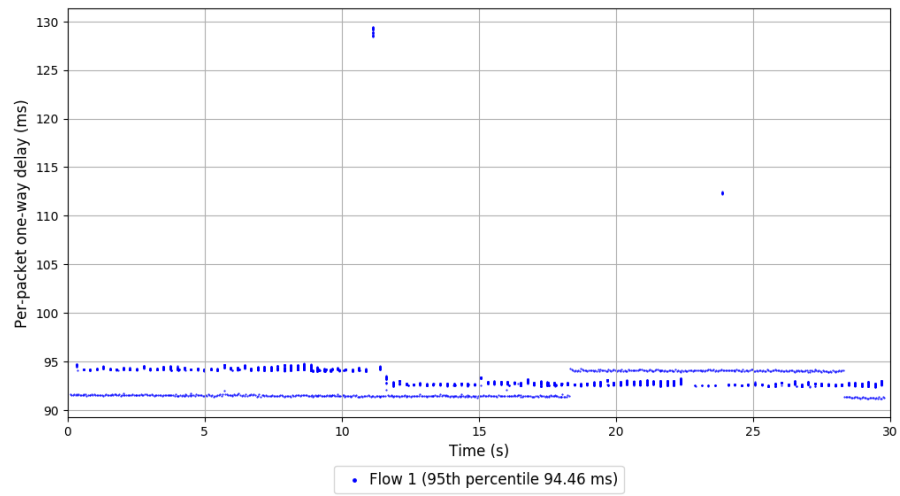
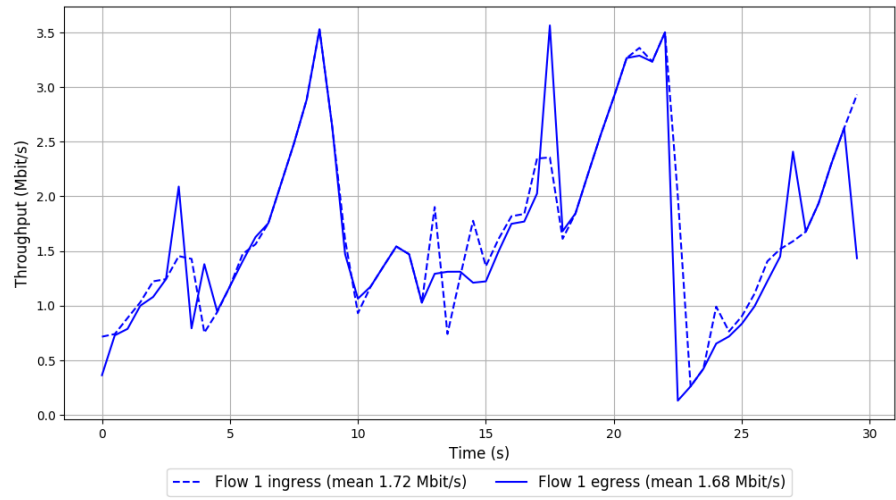
-- Flow 1:

Average throughput: 1.68 Mbit/s

95th percentile per-packet one-way delay: 94.464 ms

Loss rate: 3.34%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-12 20:10:32

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

Below is generated by plot.py at 2018-02-13 00:59:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.95 Mbit/s

95th percentile per-packet one-way delay: 83.699 ms

Loss rate: 0.90%

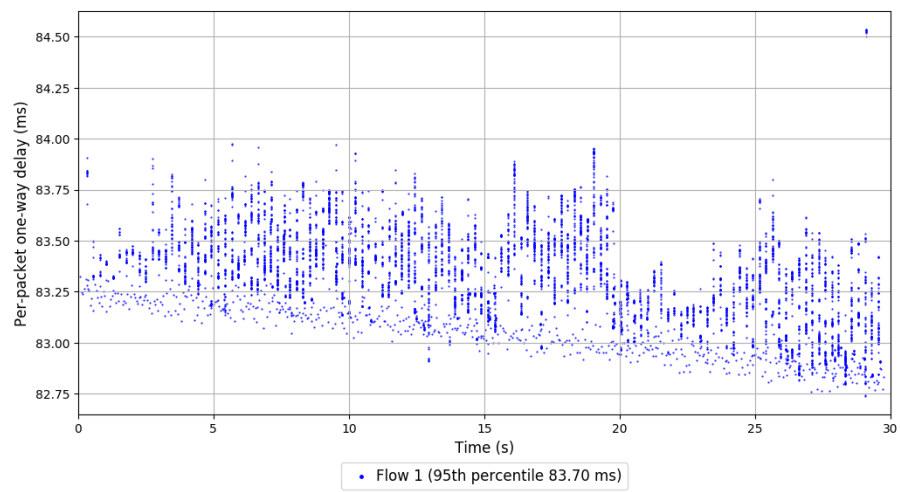
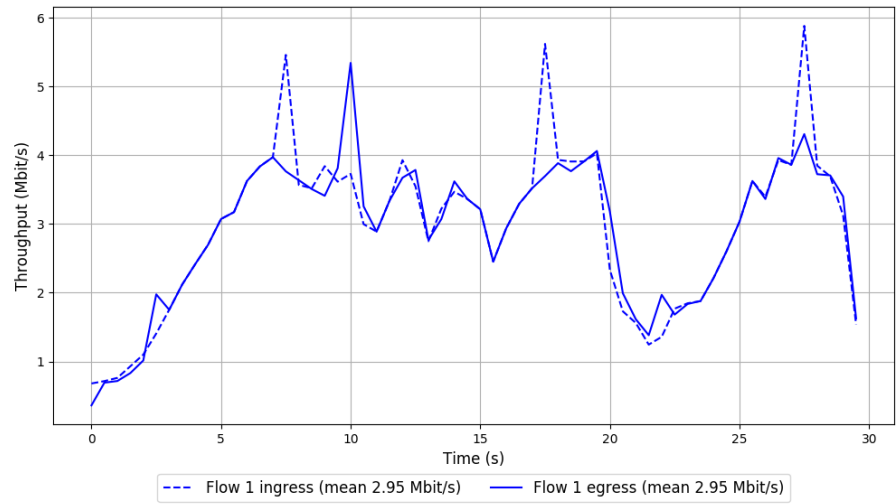
-- Flow 1:

Average throughput: 2.95 Mbit/s

95th percentile per-packet one-way delay: 83.699 ms

Loss rate: 0.90%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-12 20:25:56

End at: 2018-02-12 20:26:26

Below is generated by plot.py at 2018-02-13 00:59:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 100.200 ms

Loss rate: 1.52%

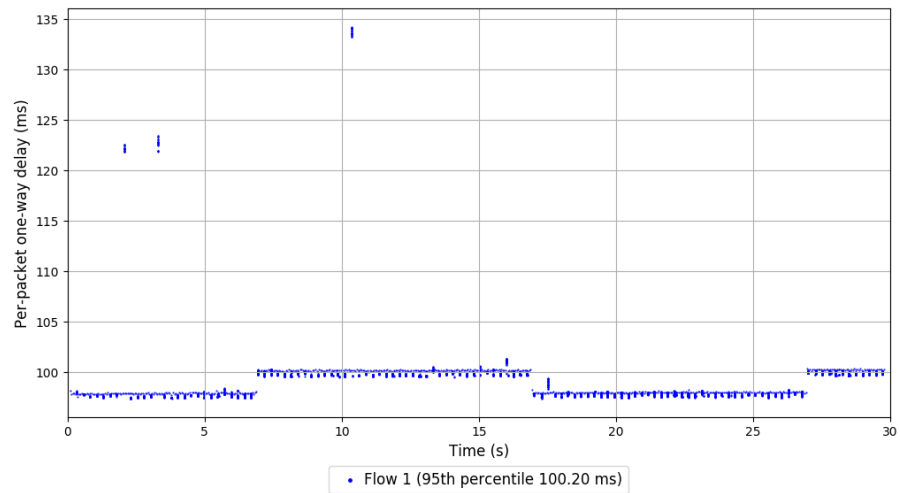
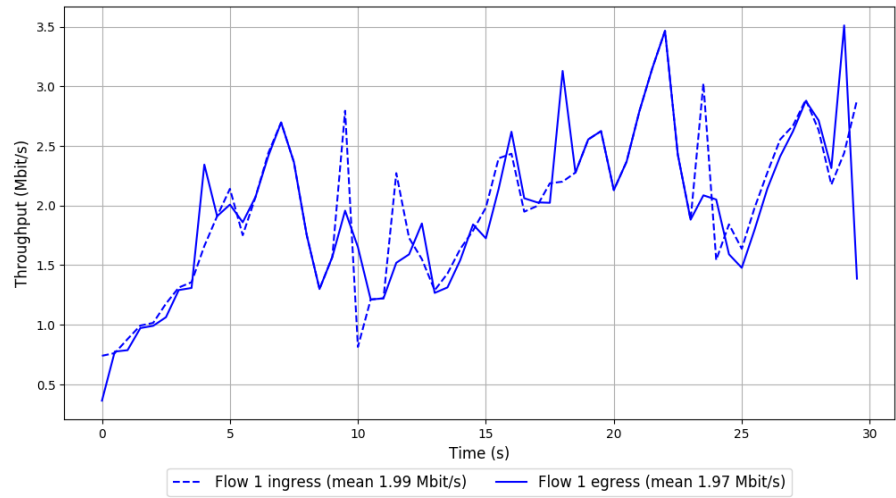
-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 100.200 ms

Loss rate: 1.52%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-12 20:41:43

End at: 2018-02-12 20:42:14

Below is generated by plot.py at 2018-02-13 00:59:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.68 Mbit/s

95th percentile per-packet one-way delay: 98.594 ms

Loss rate: 1.83%

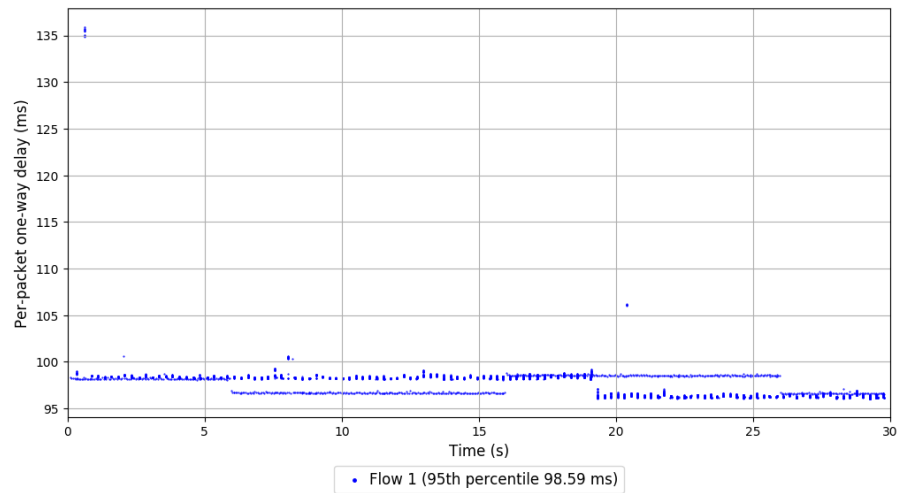
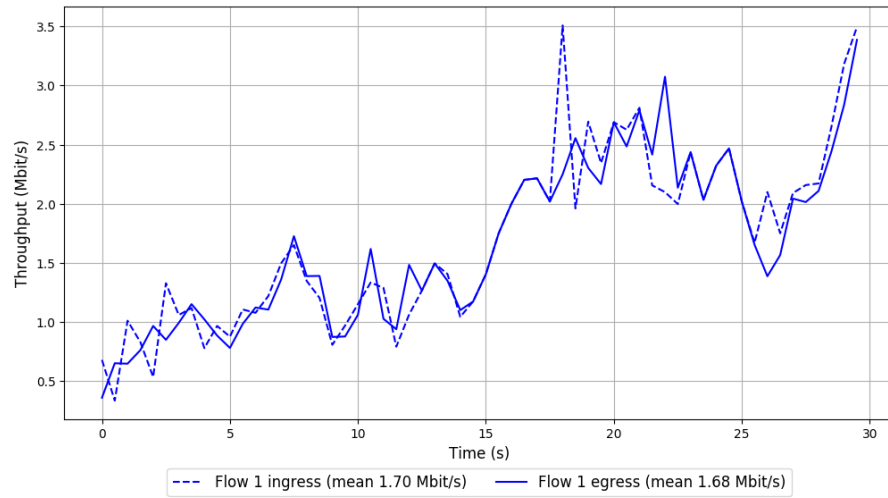
-- Flow 1:

Average throughput: 1.68 Mbit/s

95th percentile per-packet one-way delay: 98.594 ms

Loss rate: 1.83%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-12 20:57:17

End at: 2018-02-12 20:57:47

Below is generated by plot.py at 2018-02-13 00:59:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.62 Mbit/s

95th percentile per-packet one-way delay: 106.391 ms

Loss rate: 0.00%

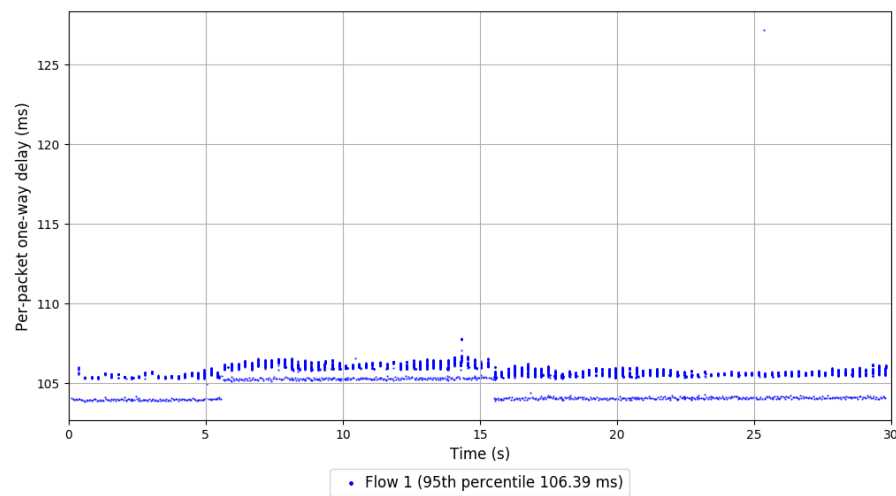
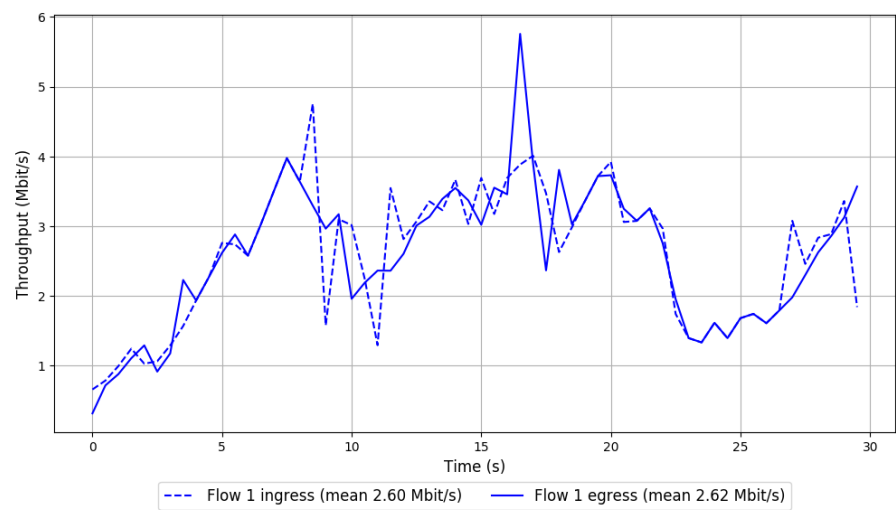
-- Flow 1:

Average throughput: 2.62 Mbit/s

95th percentile per-packet one-way delay: 106.391 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-12 21:13:04

End at: 2018-02-12 21:13:34

Below is generated by plot.py at 2018-02-13 00:59:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.59 Mbit/s

95th percentile per-packet one-way delay: 107.235 ms

Loss rate: 2.40%

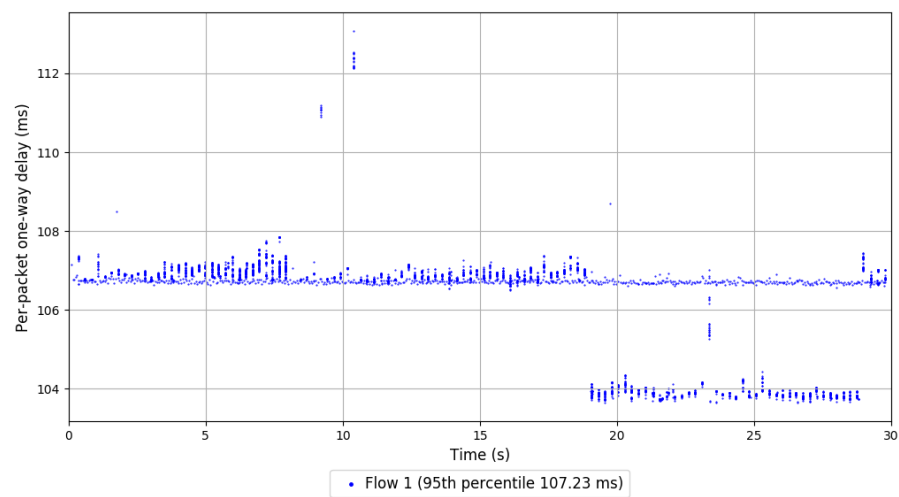
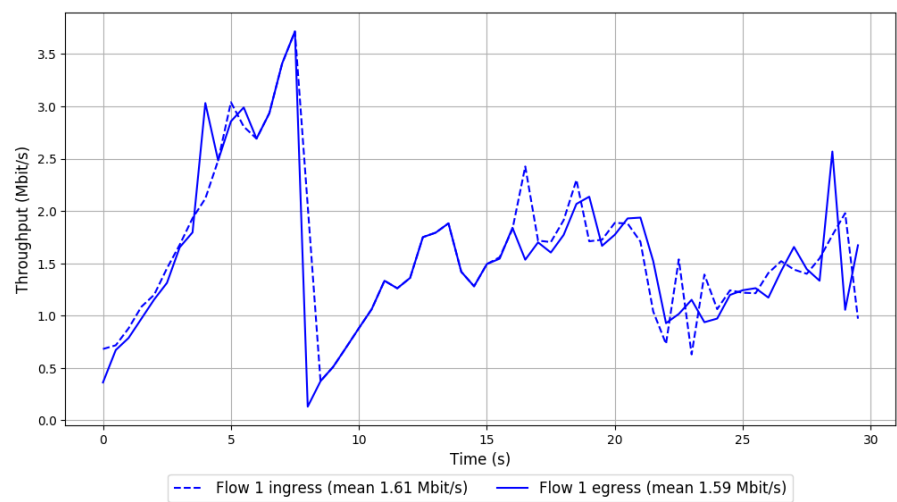
-- Flow 1:

Average throughput: 1.59 Mbit/s

95th percentile per-packet one-way delay: 107.235 ms

Loss rate: 2.40%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-12 21:28:26

End at: 2018-02-12 21:28:56

Below is generated by plot.py at 2018-02-13 00:59:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 109.511 ms

Loss rate: 0.07%

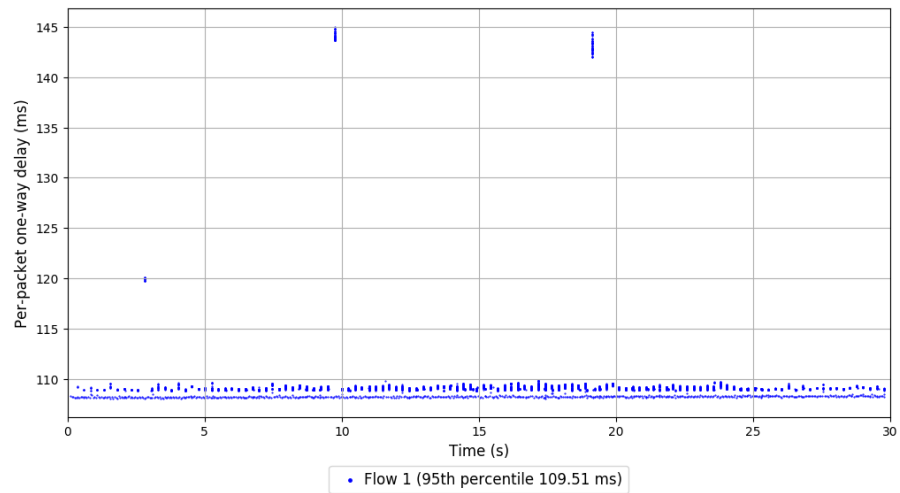
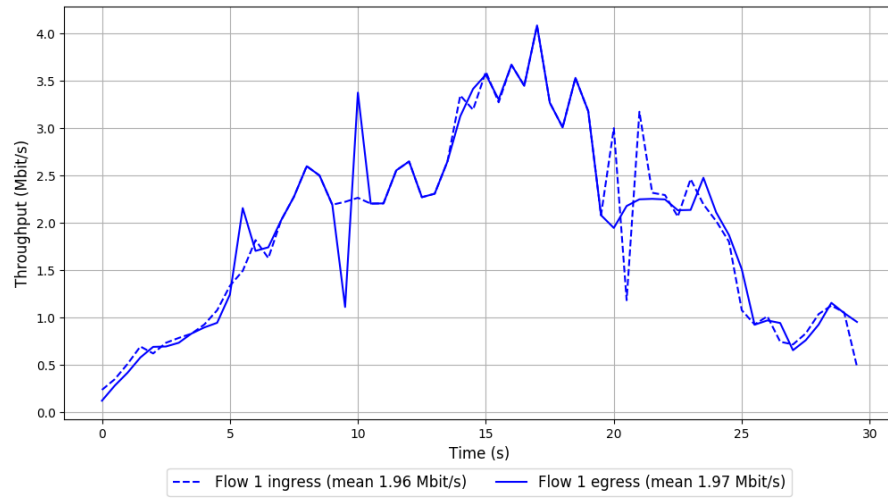
-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 109.511 ms

Loss rate: 0.07%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-12 21:44:02

End at: 2018-02-12 21:44:32

Below is generated by plot.py at 2018-02-13 00:59:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.56 Mbit/s

95th percentile per-packet one-way delay: 109.172 ms

Loss rate: 2.18%

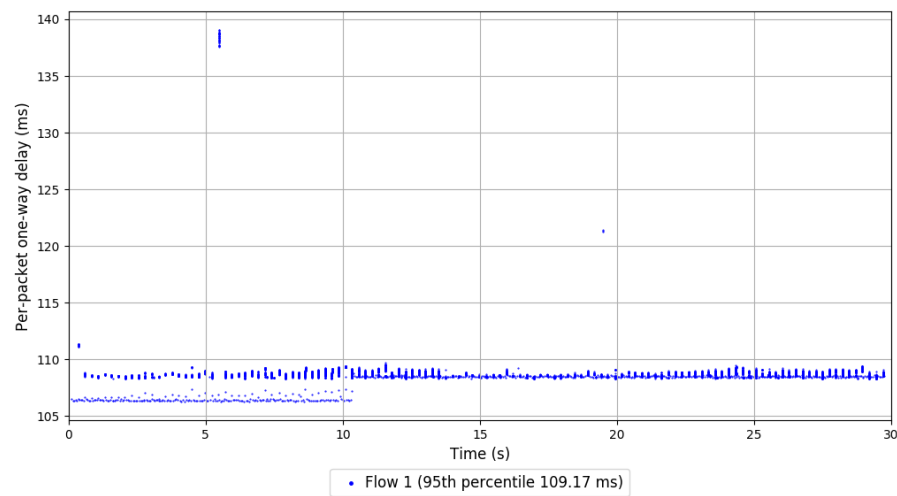
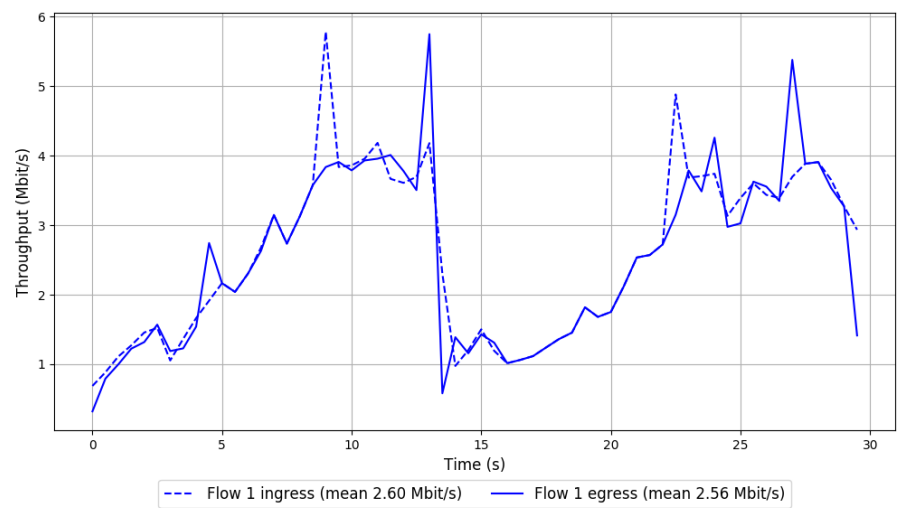
-- Flow 1:

Average throughput: 2.56 Mbit/s

95th percentile per-packet one-way delay: 109.172 ms

Loss rate: 2.18%

Run 10: Report of Sprout — Data Link

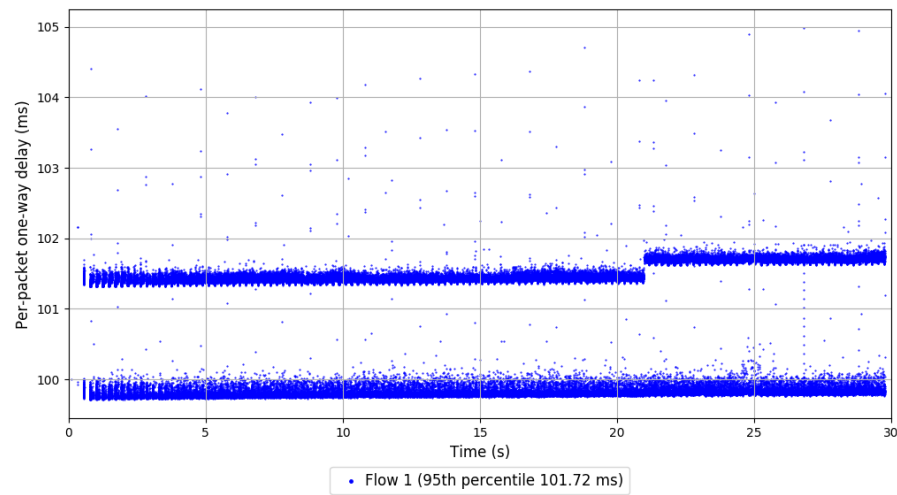
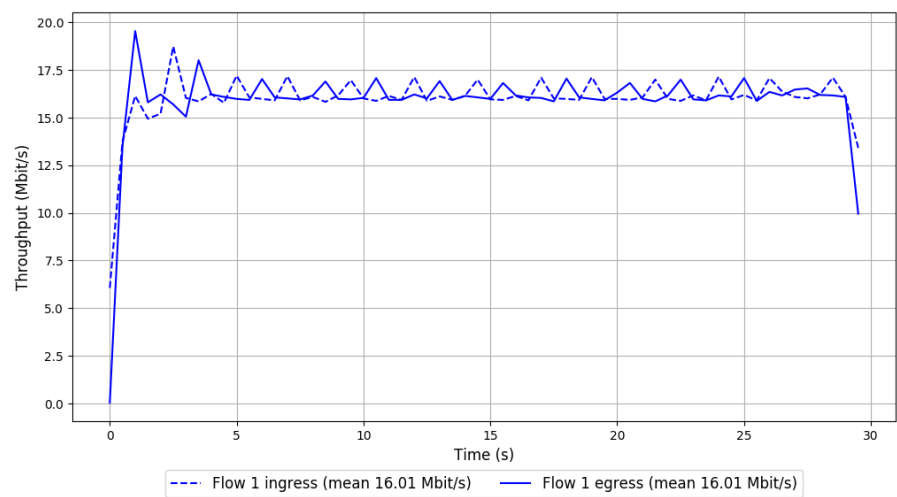


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-12 19:25:32
End at: 2018-02-12 19:26:02

# Below is generated by plot.py at 2018-02-13 00:59:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 16.01 Mbit/s
95th percentile per-packet one-way delay: 101.721 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 16.01 Mbit/s
95th percentile per-packet one-way delay: 101.721 ms
Loss rate: 0.76%
```

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

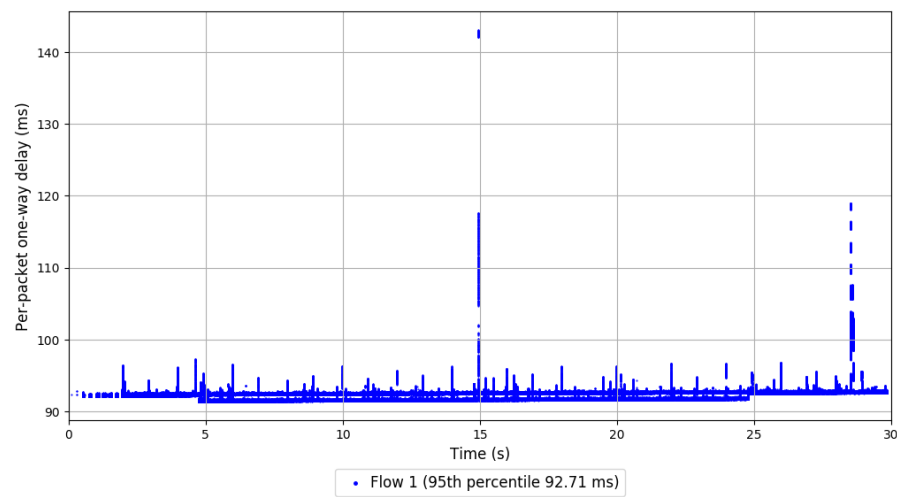
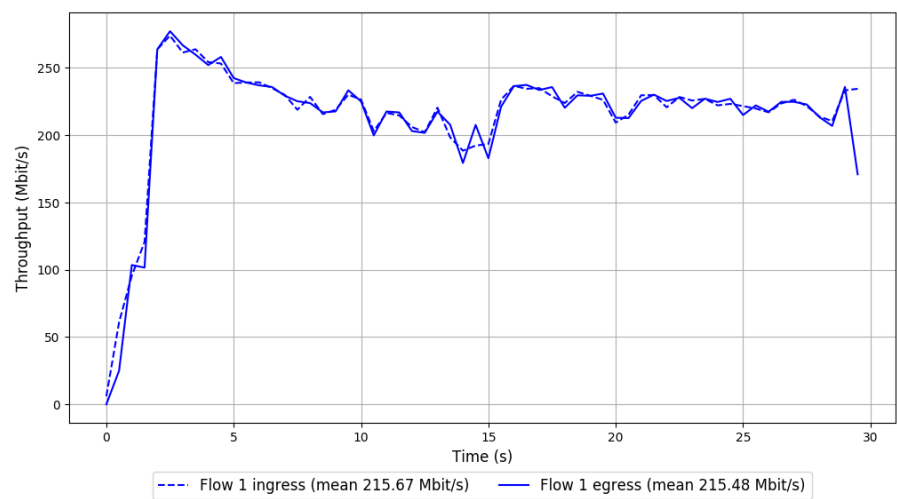


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-12 19:41:05
End at: 2018-02-12 19:41:35

# Below is generated by plot.py at 2018-02-13 00:59:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 215.48 Mbit/s
95th percentile per-packet one-way delay: 92.712 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 215.48 Mbit/s
95th percentile per-packet one-way delay: 92.712 ms
Loss rate: 0.82%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-02-12 19:56:48

End at: 2018-02-12 19:57:18

Below is generated by plot.py at 2018-02-13 00:59:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.08 Mbit/s

95th percentile per-packet one-way delay: 93.165 ms

Loss rate: 2.51%

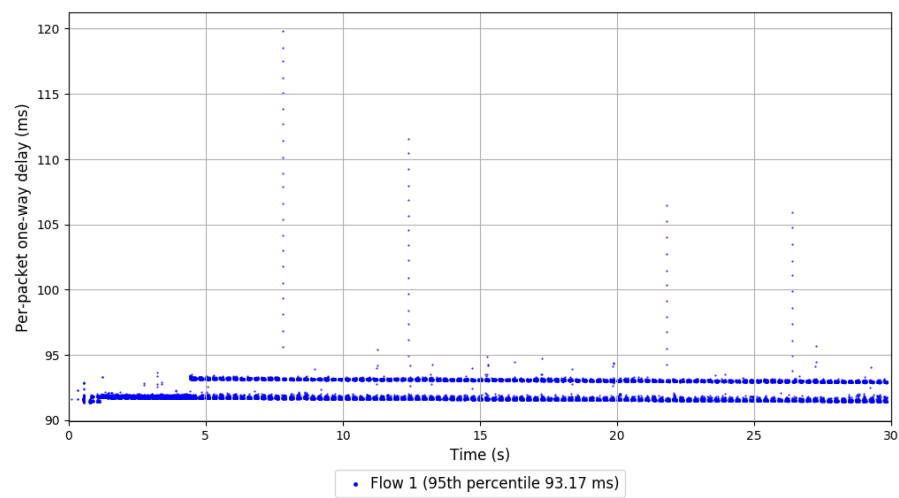
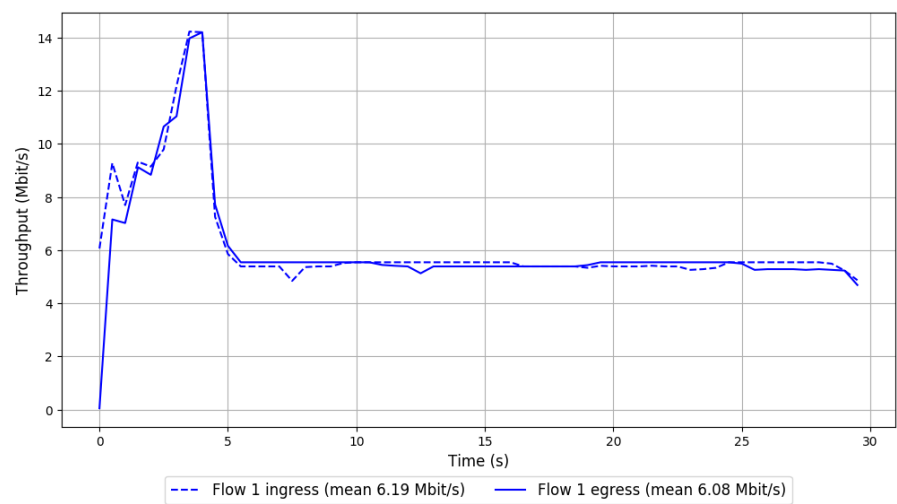
-- Flow 1:

Average throughput: 6.08 Mbit/s

95th percentile per-packet one-way delay: 93.165 ms

Loss rate: 2.51%

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

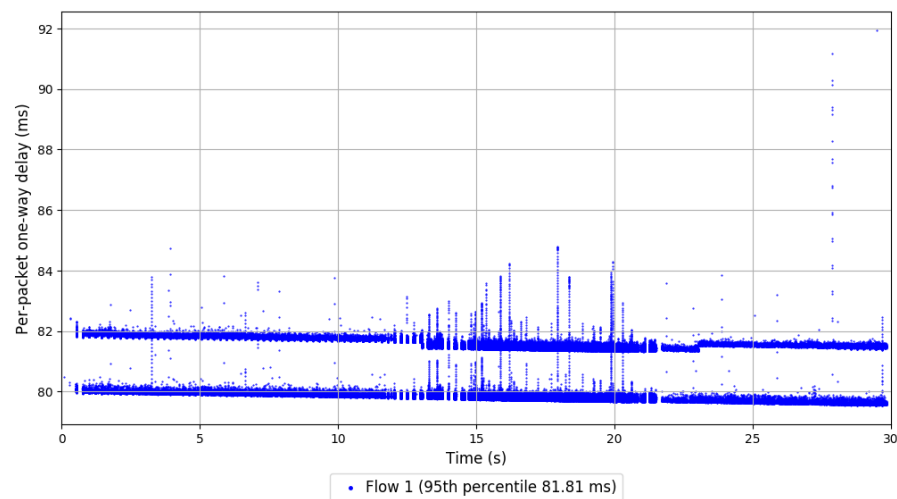
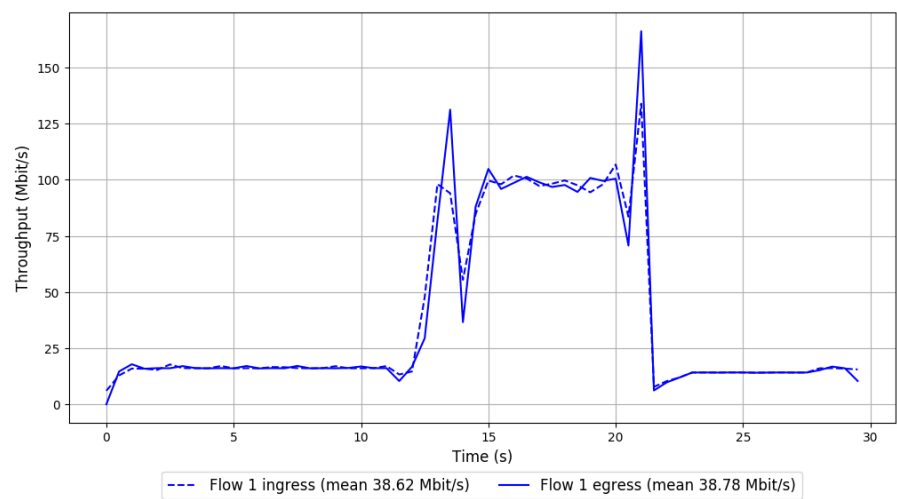


```
Run 4: Statistics of TaoVA-100x

Start at: 2018-02-12 20:12:00
End at: 2018-02-12 20:12:30

# Below is generated by plot.py at 2018-02-13 00:59:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 38.78 Mbit/s
95th percentile per-packet one-way delay: 81.807 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 38.78 Mbit/s
95th percentile per-packet one-way delay: 81.807 ms
Loss rate: 0.32%
```

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-12 20:27:23

End at: 2018-02-12 20:27:53

Below is generated by plot.py at 2018-02-13 00:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.01 Mbit/s

95th percentile per-packet one-way delay: 100.026 ms

Loss rate: 1.02%

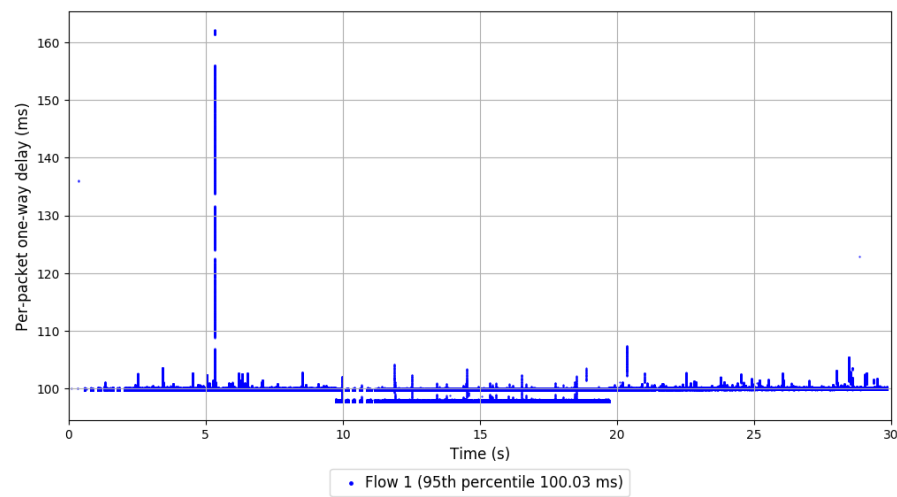
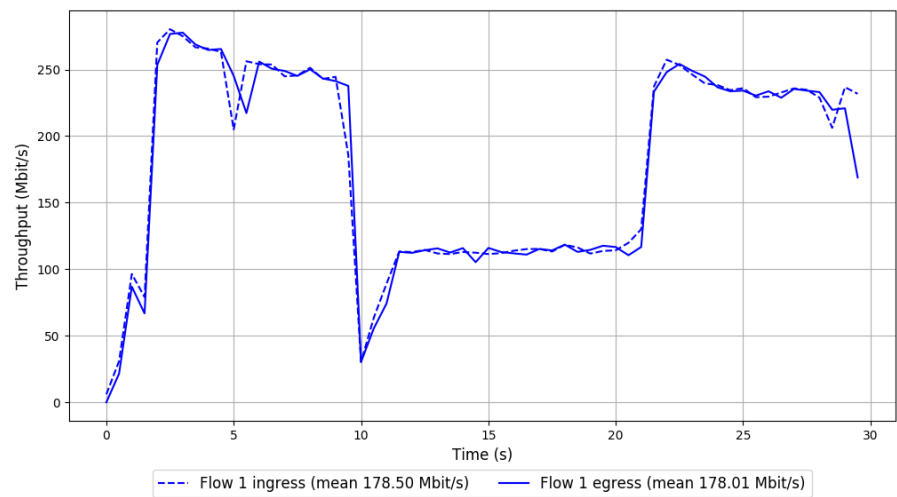
-- Flow 1:

Average throughput: 178.01 Mbit/s

95th percentile per-packet one-way delay: 100.026 ms

Loss rate: 1.02%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-12 20:43:11

End at: 2018-02-12 20:43:41

Below is generated by plot.py at 2018-02-13 00:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.28 Mbit/s

95th percentile per-packet one-way delay: 97.966 ms

Loss rate: 0.42%

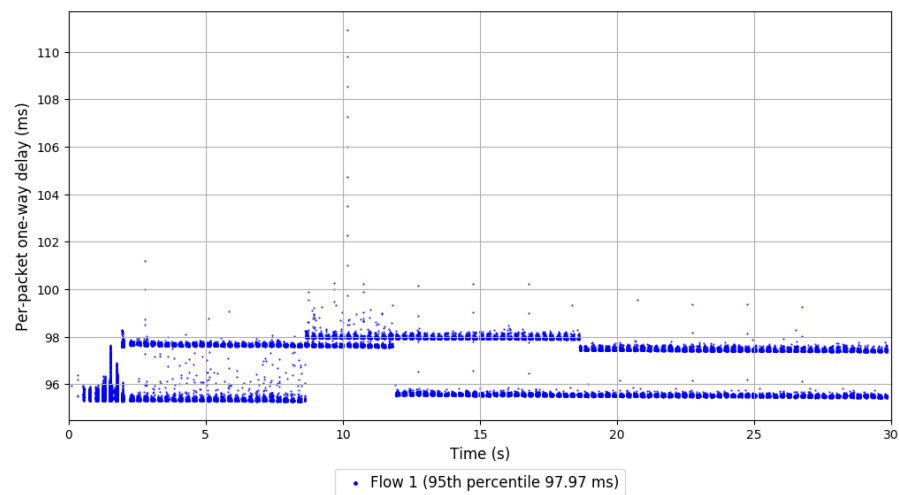
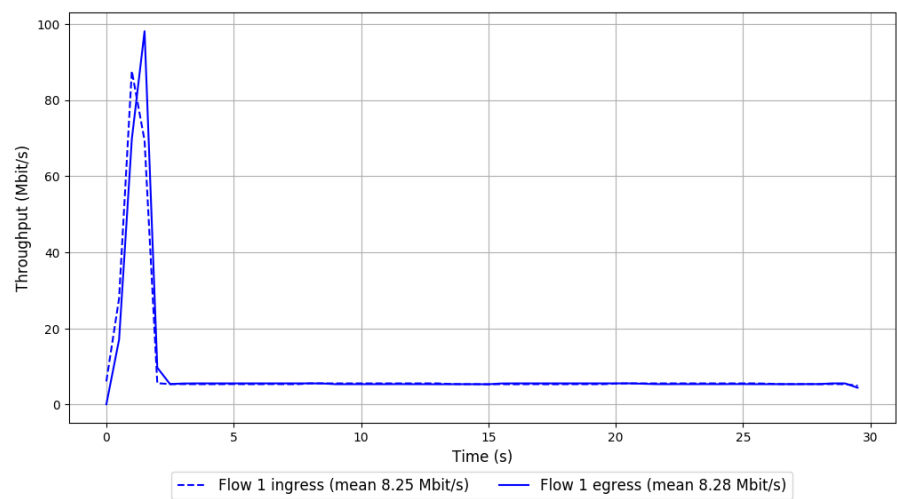
-- Flow 1:

Average throughput: 8.28 Mbit/s

95th percentile per-packet one-way delay: 97.966 ms

Loss rate: 0.42%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-12 20:58:45

End at: 2018-02-12 20:59:15

Below is generated by plot.py at 2018-02-13 00:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.06 Mbit/s

95th percentile per-packet one-way delay: 106.457 ms

Loss rate: 0.28%

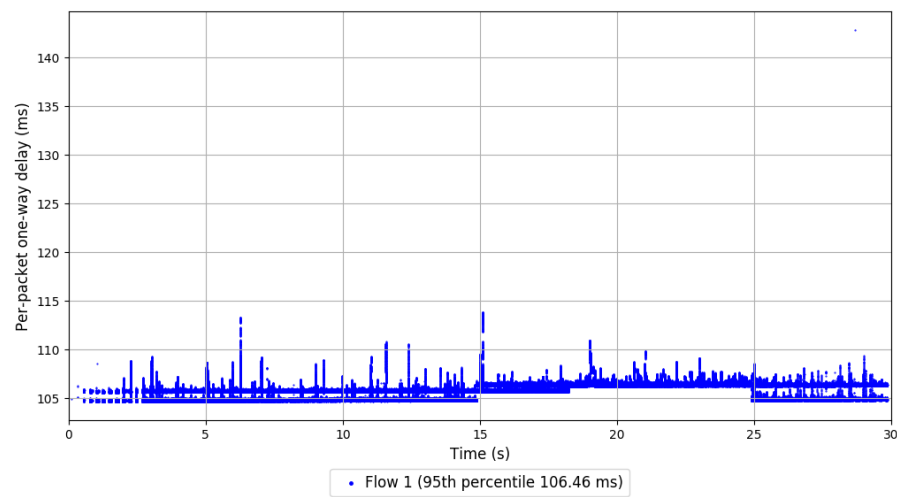
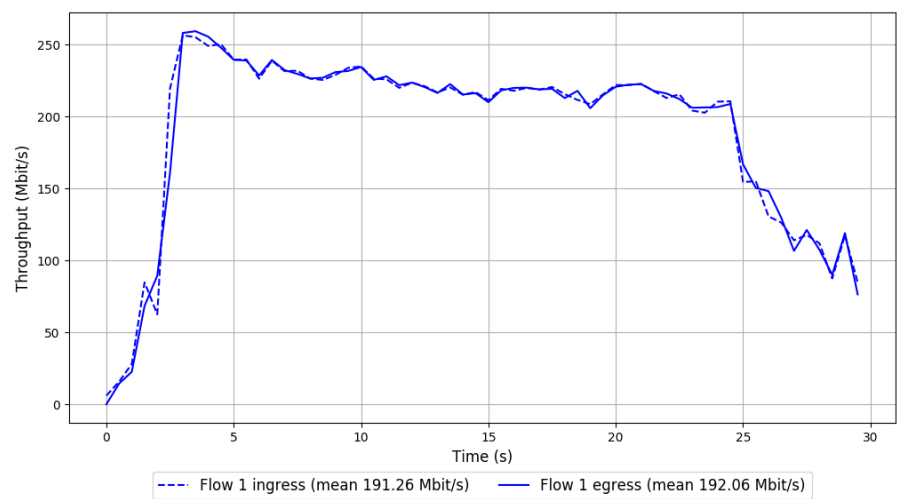
-- Flow 1:

Average throughput: 192.06 Mbit/s

95th percentile per-packet one-way delay: 106.457 ms

Loss rate: 0.28%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-12 21:14:31

End at: 2018-02-12 21:15:01

Below is generated by plot.py at 2018-02-13 00:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.36 Mbit/s

95th percentile per-packet one-way delay: 107.874 ms

Loss rate: 1.89%

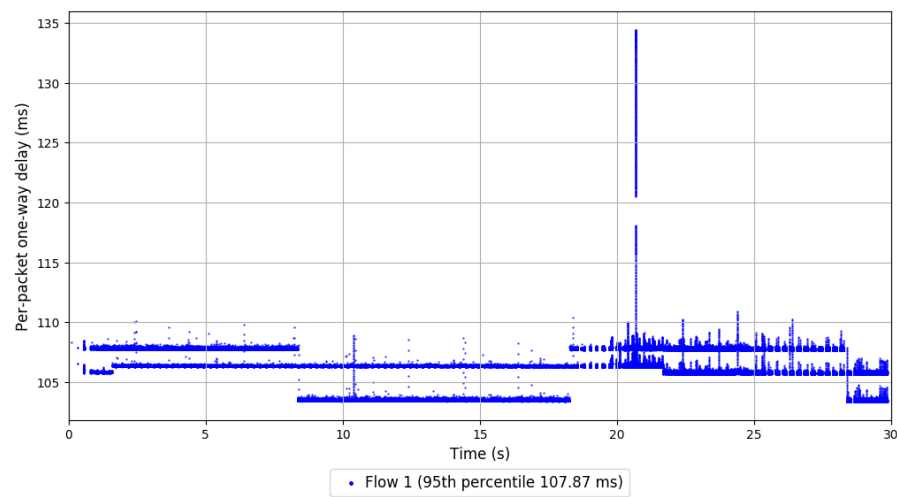
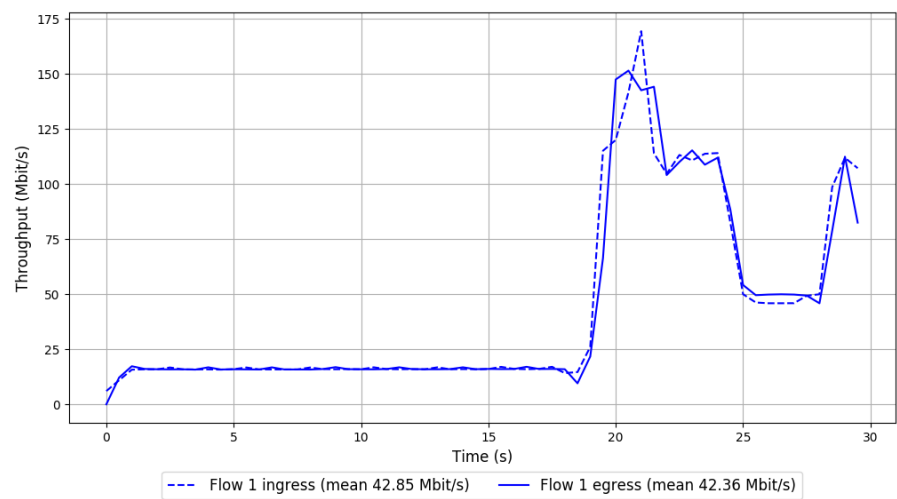
-- Flow 1:

Average throughput: 42.36 Mbit/s

95th percentile per-packet one-way delay: 107.874 ms

Loss rate: 1.89%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-12 21:29:54

End at: 2018-02-12 21:30:24

Below is generated by plot.py at 2018-02-13 00:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.55 Mbit/s

95th percentile per-packet one-way delay: 109.201 ms

Loss rate: 0.73%

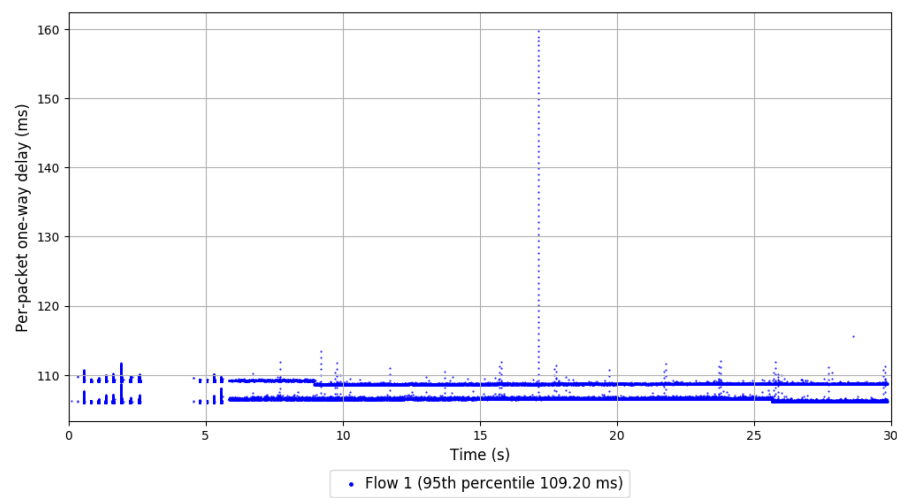
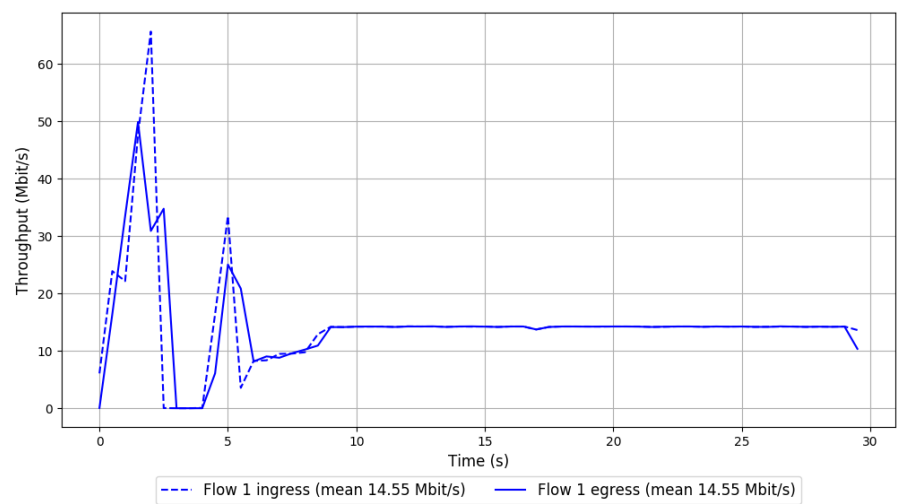
-- Flow 1:

Average throughput: 14.55 Mbit/s

95th percentile per-packet one-way delay: 109.201 ms

Loss rate: 0.73%

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

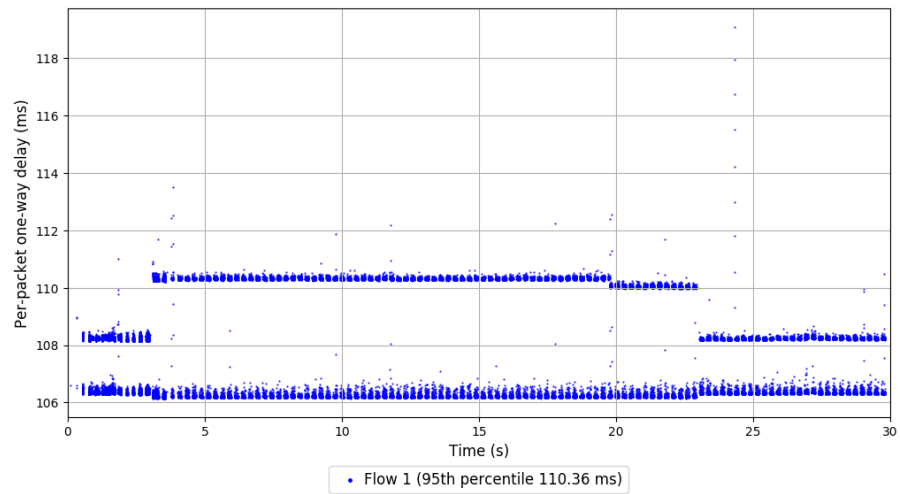
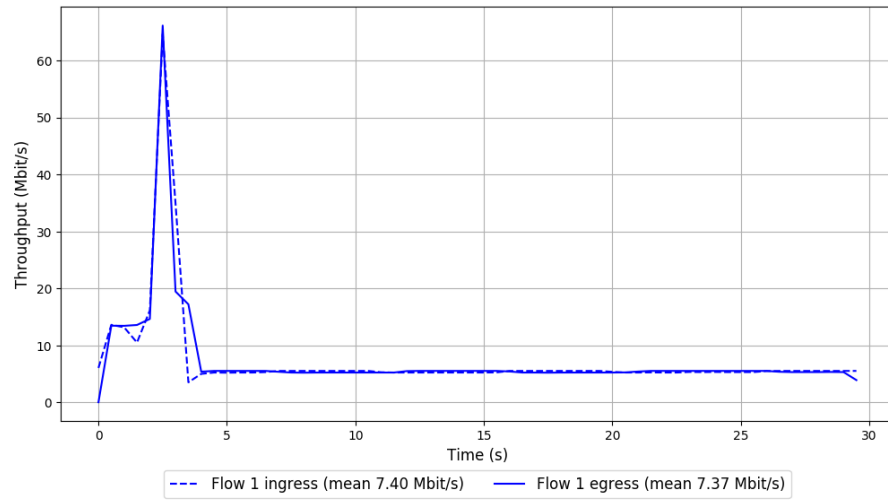


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-12 21:45:30
End at: 2018-02-12 21:46:00

# Below is generated by plot.py at 2018-02-13 00:59:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.37 Mbit/s
95th percentile per-packet one-way delay: 110.355 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 7.37 Mbit/s
95th percentile per-packet one-way delay: 110.355 ms
Loss rate: 1.26%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-12 19:29:48

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

Below is generated by plot.py at 2018-02-13 00:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.57 Mbit/s

95th percentile per-packet one-way delay: 100.981 ms

Loss rate: 3.92%

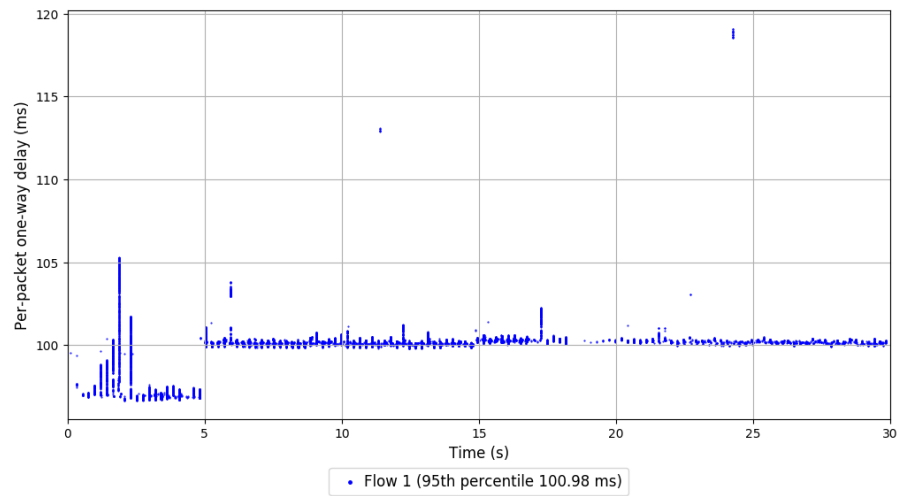
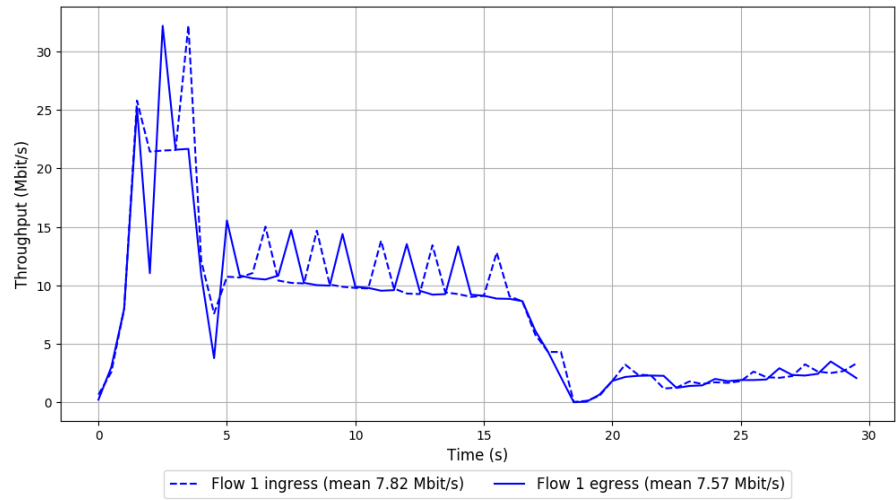
-- Flow 1:

Average throughput: 7.57 Mbit/s

95th percentile per-packet one-way delay: 100.981 ms

Loss rate: 3.92%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-12 19:45:37

End at: 2018-02-12 19:46:07

Below is generated by plot.py at 2018-02-13 00:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.00 Mbit/s

95th percentile per-packet one-way delay: 104.185 ms

Loss rate: 2.30%

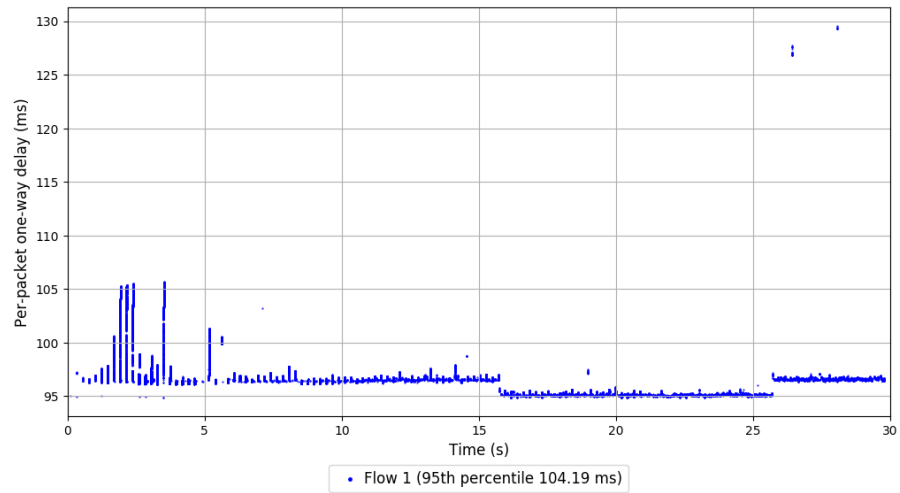
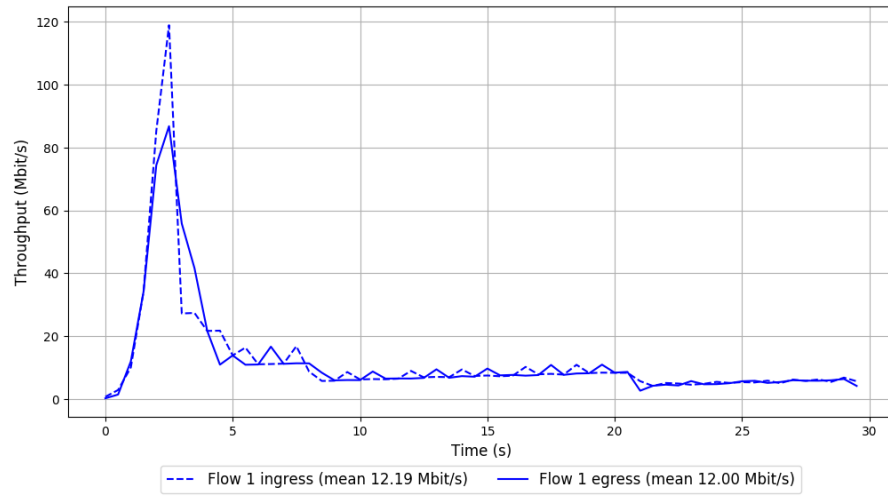
-- Flow 1:

Average throughput: 12.00 Mbit/s

95th percentile per-packet one-way delay: 104.185 ms

Loss rate: 2.30%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-12 20:01:03

End at: 2018-02-12 20:01:33

Below is generated by plot.py at 2018-02-13 00:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.35 Mbit/s

95th percentile per-packet one-way delay: 90.920 ms

Loss rate: 1.78%

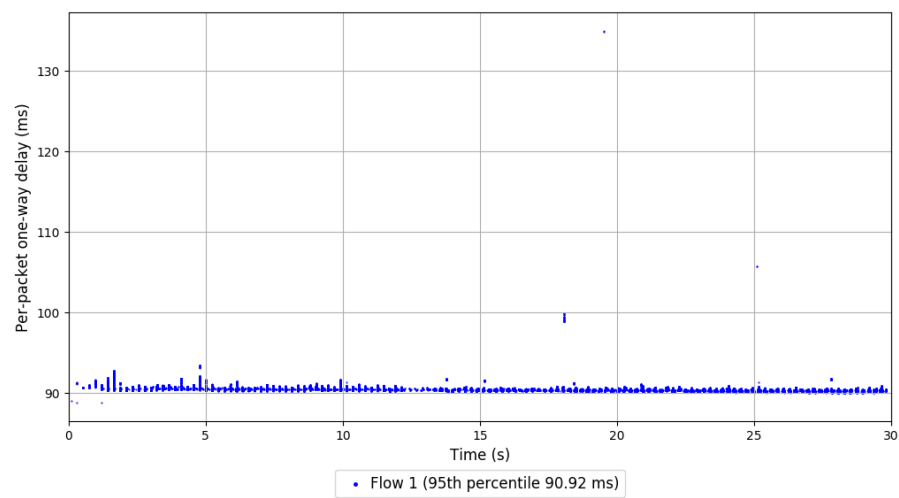
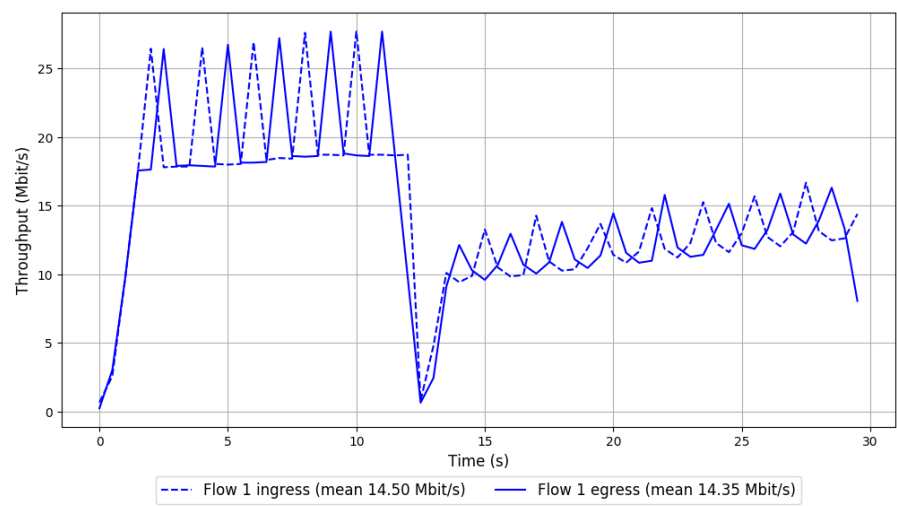
-- Flow 1:

Average throughput: 14.35 Mbit/s

95th percentile per-packet one-way delay: 90.920 ms

Loss rate: 1.78%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-12 20:16:18

End at: 2018-02-12 20:16:48

Below is generated by plot.py at 2018-02-13 00:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.05 Mbit/s

95th percentile per-packet one-way delay: 92.072 ms

Loss rate: 0.71%

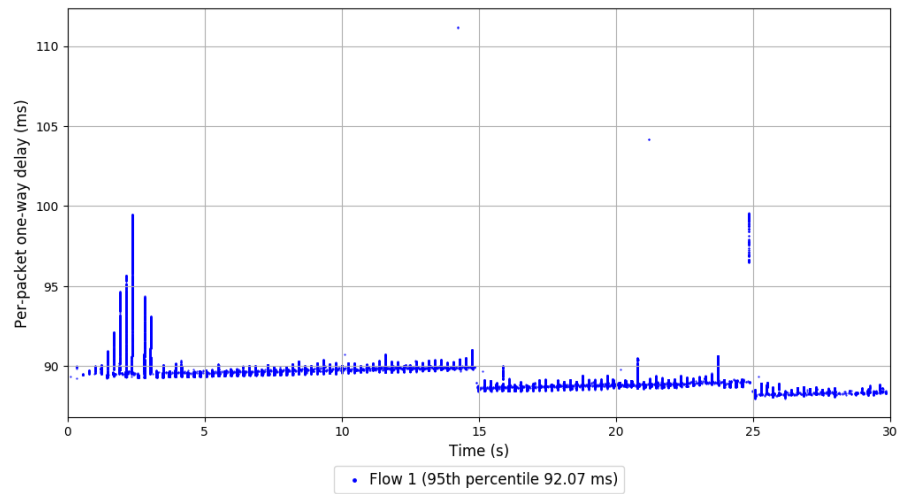
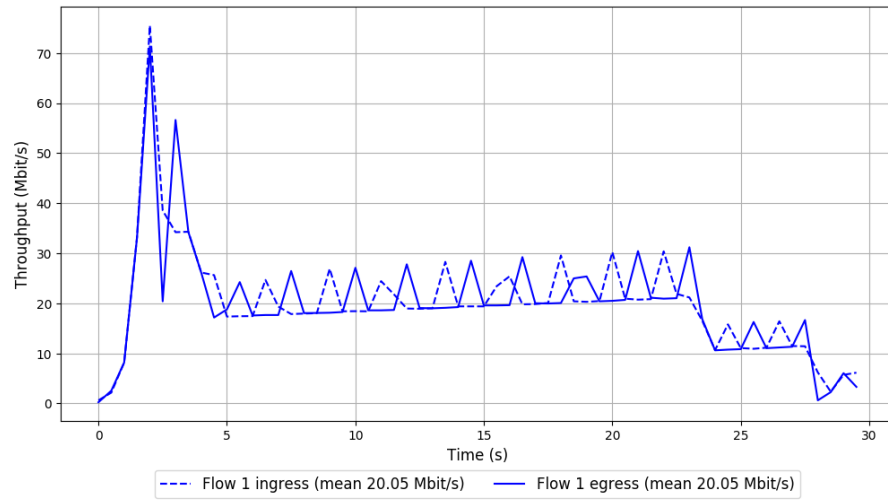
-- Flow 1:

Average throughput: 20.05 Mbit/s

95th percentile per-packet one-way delay: 92.072 ms

Loss rate: 0.71%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-12 20:31:56

End at: 2018-02-12 20:32:26

Below is generated by plot.py at 2018-02-13 00:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.50 Mbit/s

95th percentile per-packet one-way delay: 101.168 ms

Loss rate: 1.30%

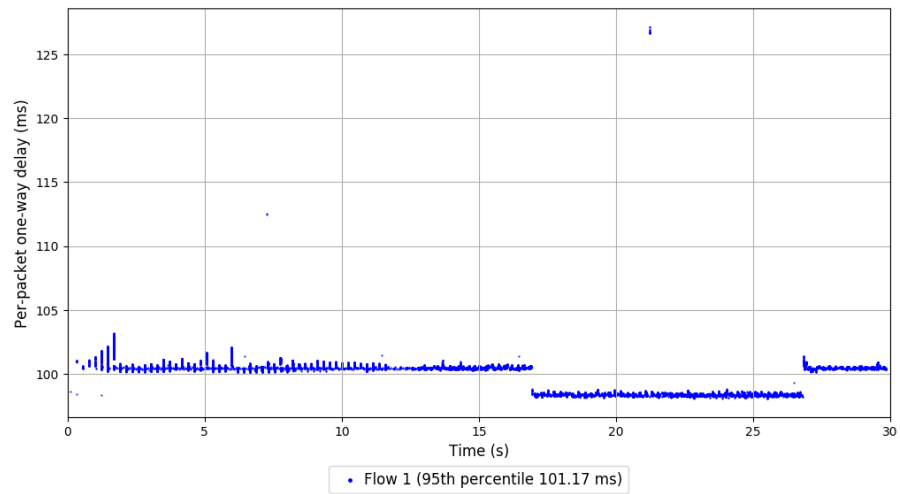
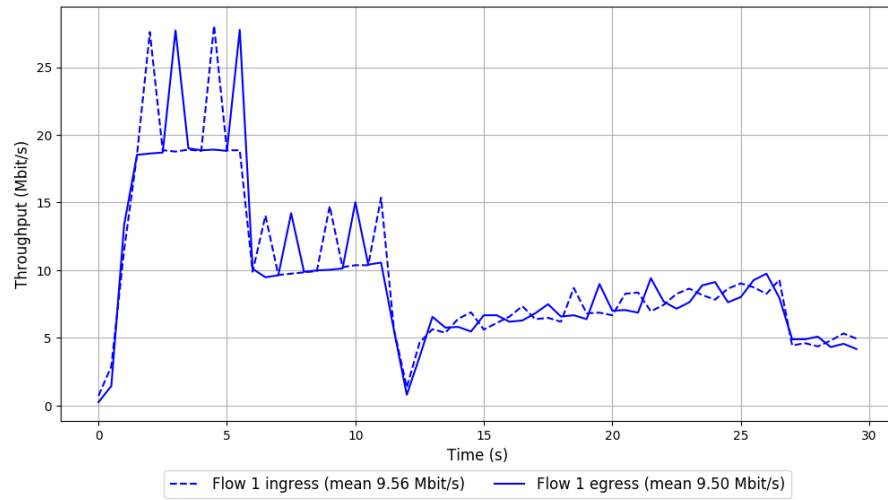
-- Flow 1:

Average throughput: 9.50 Mbit/s

95th percentile per-packet one-way delay: 101.168 ms

Loss rate: 1.30%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-12 20:47:27

End at: 2018-02-12 20:47:57

Below is generated by plot.py at 2018-02-13 00:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.42 Mbit/s

95th percentile per-packet one-way delay: 98.107 ms

Loss rate: 0.49%

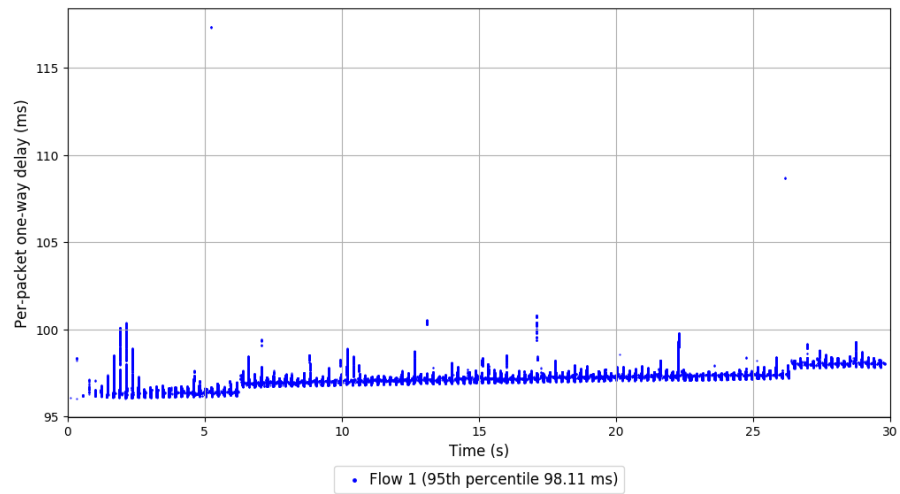
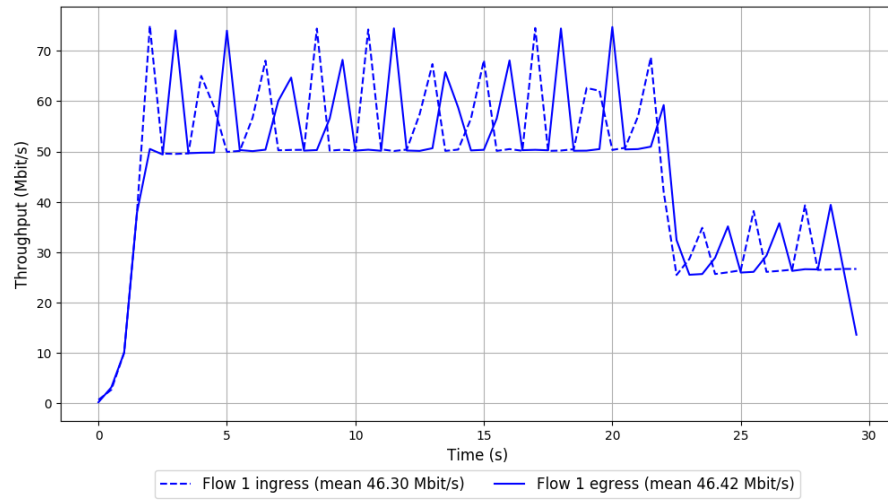
-- Flow 1:

Average throughput: 46.42 Mbit/s

95th percentile per-packet one-way delay: 98.107 ms

Loss rate: 0.49%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-12 21:03:17

End at: 2018-02-12 21:03:47

Below is generated by plot.py at 2018-02-13 00:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.61 Mbit/s

95th percentile per-packet one-way delay: 107.984 ms

Loss rate: 1.04%

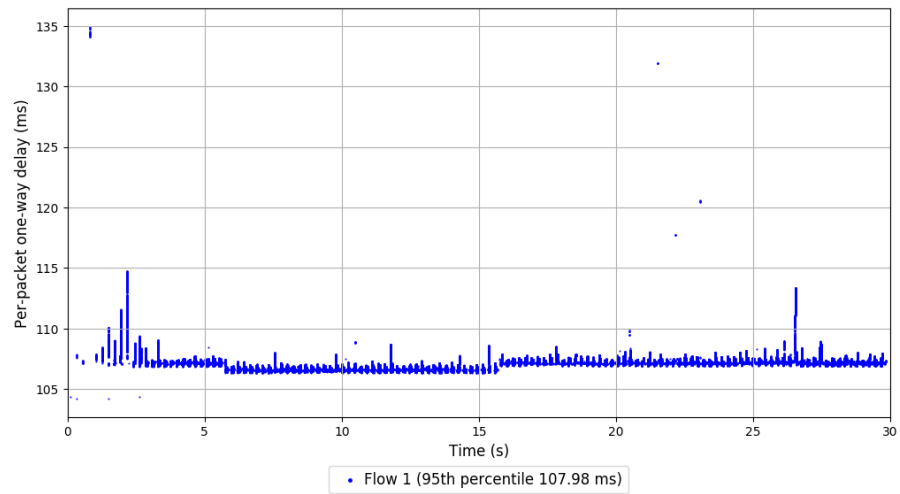
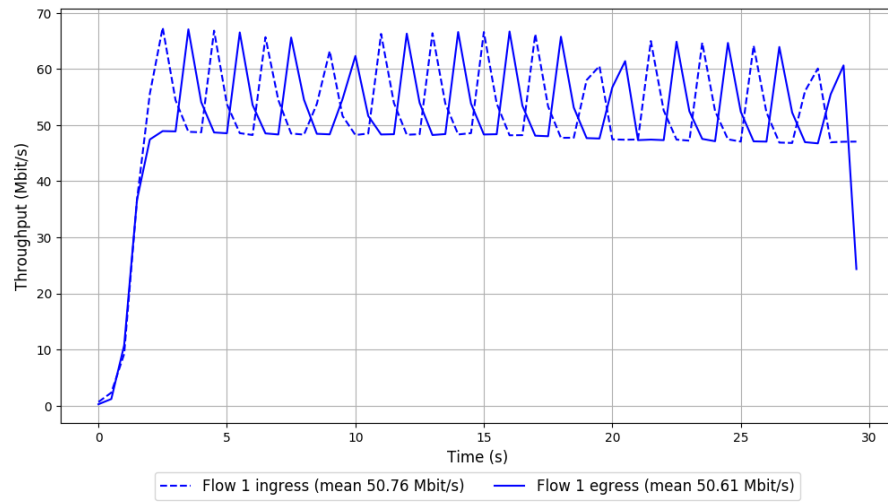
-- Flow 1:

Average throughput: 50.61 Mbit/s

95th percentile per-packet one-way delay: 107.984 ms

Loss rate: 1.04%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-12 21:18:51

End at: 2018-02-12 21:19:21

Below is generated by plot.py at 2018-02-13 00:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.30 Mbit/s

95th percentile per-packet one-way delay: 109.400 ms

Loss rate: 1.45%

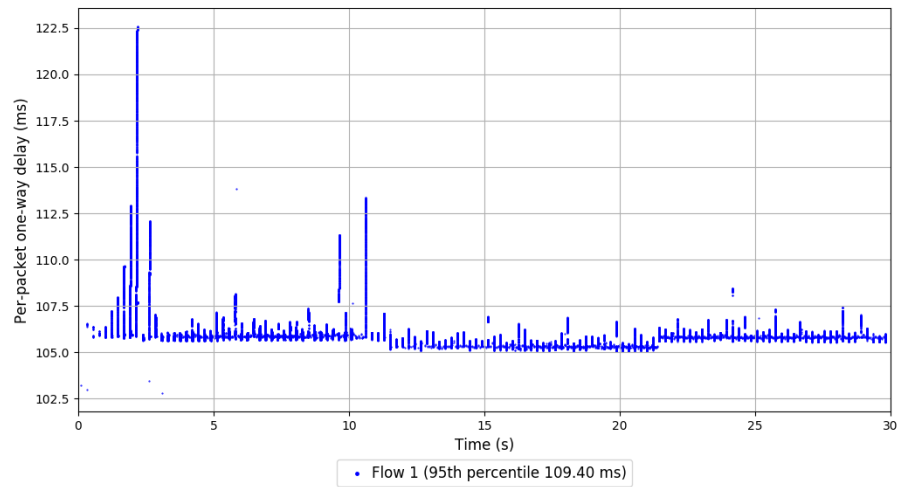
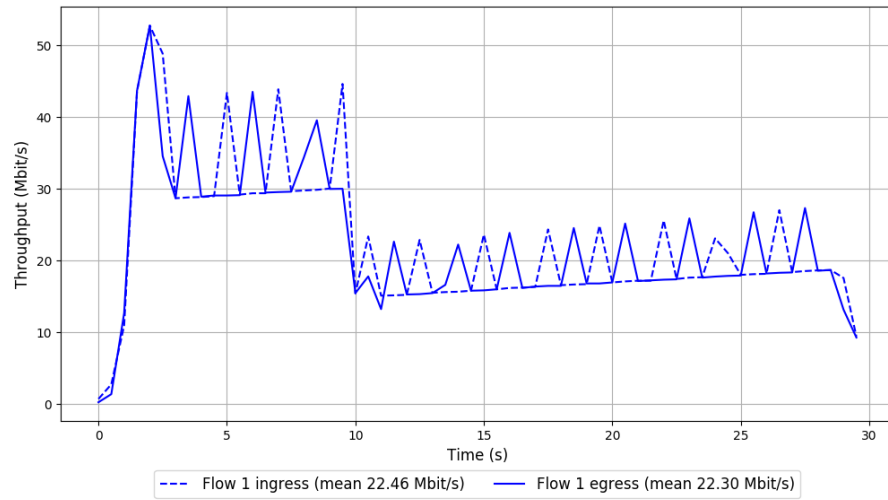
-- Flow 1:

Average throughput: 22.30 Mbit/s

95th percentile per-packet one-way delay: 109.400 ms

Loss rate: 1.45%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-12 21:34:12

End at: 2018-02-12 21:34:42

Below is generated by plot.py at 2018-02-13 00:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.02 Mbit/s

95th percentile per-packet one-way delay: 110.240 ms

Loss rate: 0.75%

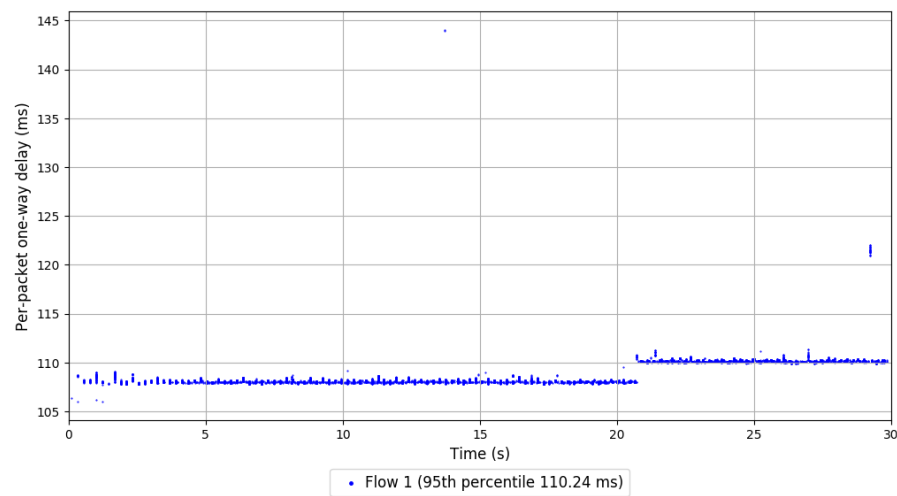
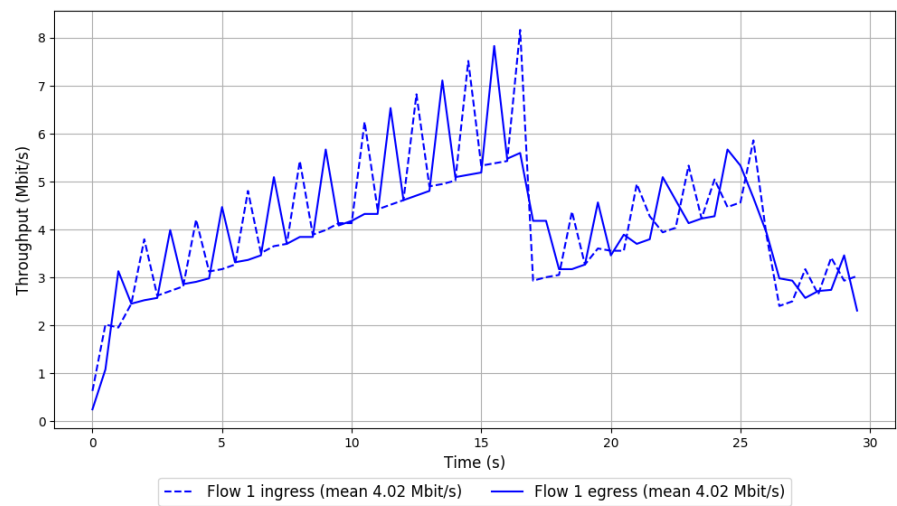
-- Flow 1:

Average throughput: 4.02 Mbit/s

95th percentile per-packet one-way delay: 110.240 ms

Loss rate: 0.75%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-12 21:49:46

End at: 2018-02-12 21:50:16

Below is generated by plot.py at 2018-02-13 00:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.90 Mbit/s

95th percentile per-packet one-way delay: 110.415 ms

Loss rate: 2.39%

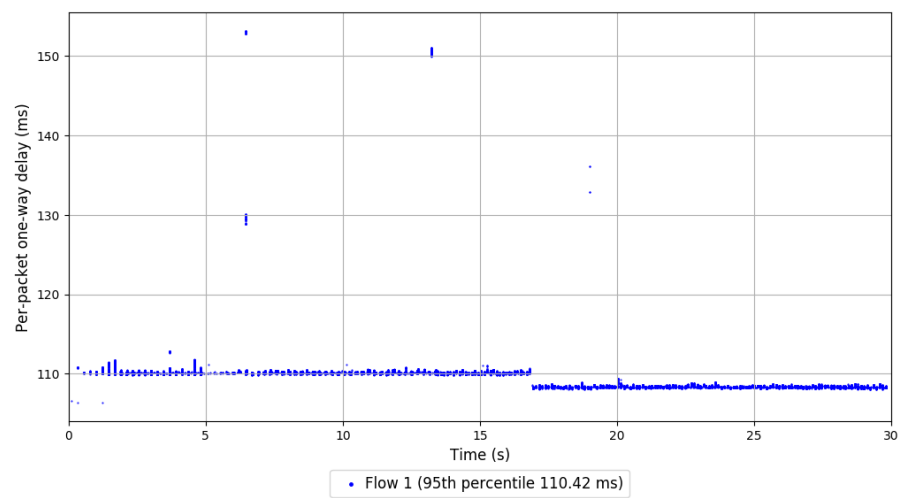
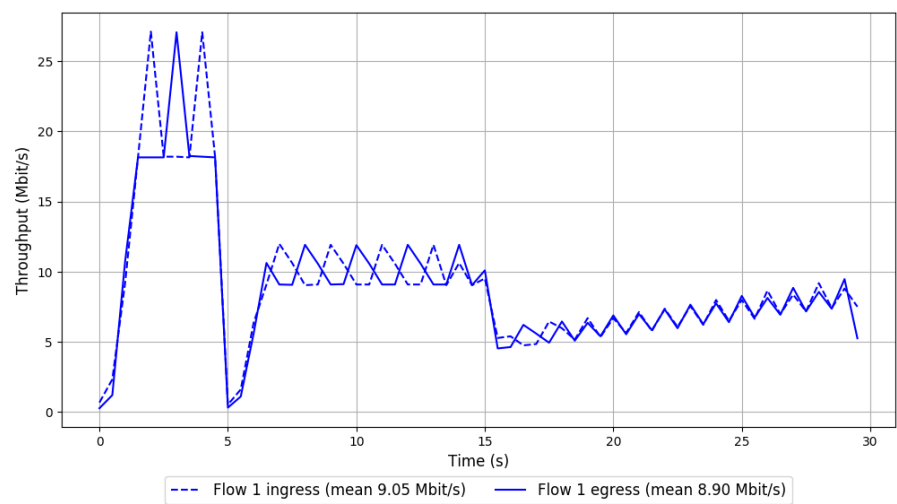
-- Flow 1:

Average throughput: 8.90 Mbit/s

95th percentile per-packet one-way delay: 110.415 ms

Loss rate: 2.39%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-02-12 19:18:56

End at: 2018-02-12 19:19:26

Below is generated by plot.py at 2018-02-13 00:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.86 Mbit/s

95th percentile per-packet one-way delay: 118.280 ms

Loss rate: 2.04%

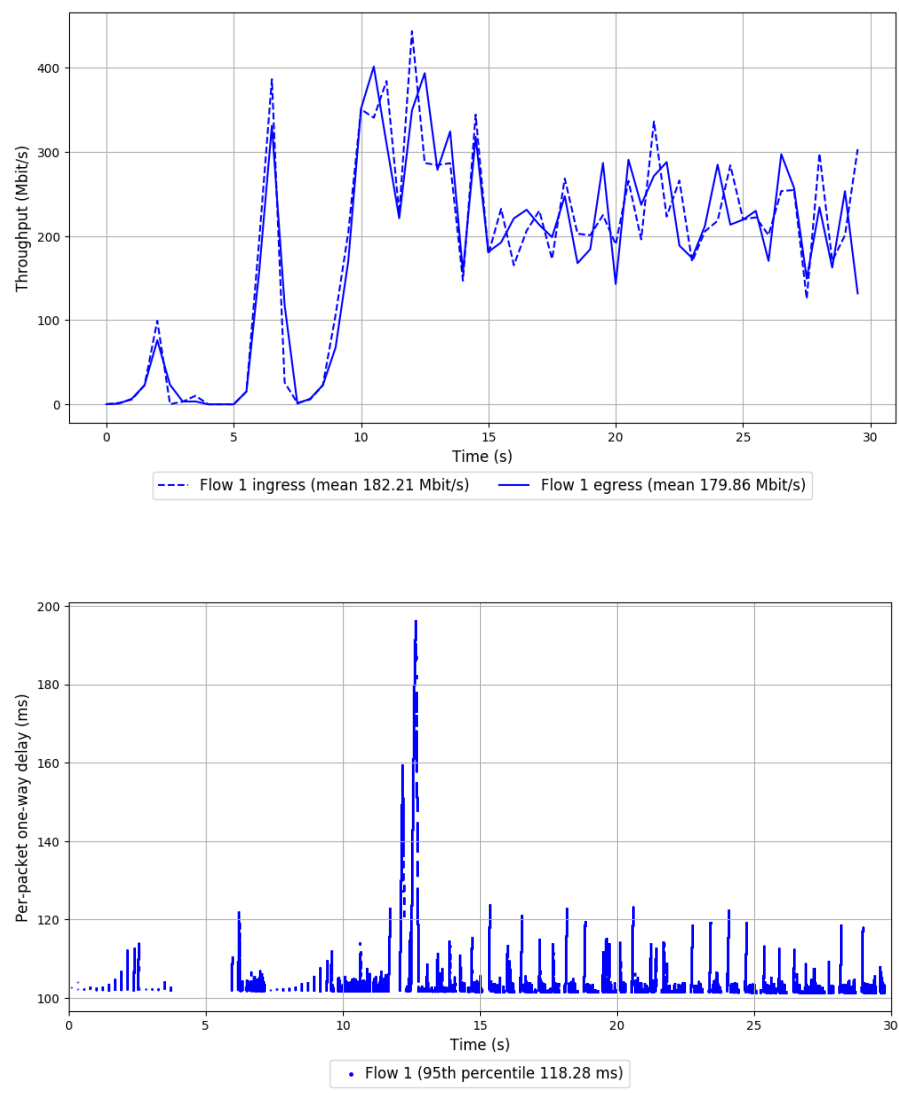
-- Flow 1:

Average throughput: 179.86 Mbit/s

95th percentile per-packet one-way delay: 118.280 ms

Loss rate: 2.04%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-12 19:34:12

End at: 2018-02-12 19:34:42

Below is generated by plot.py at 2018-02-13 00:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.11 Mbit/s

95th percentile per-packet one-way delay: 111.118 ms

Loss rate: 1.11%

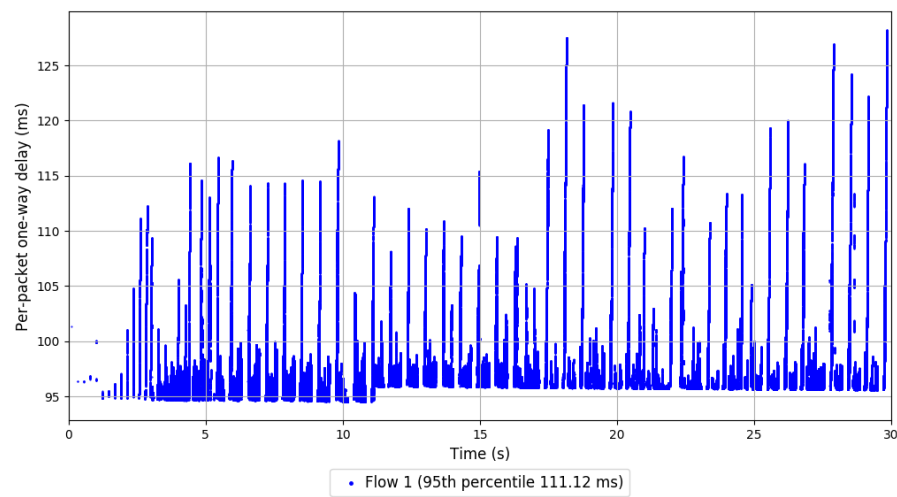
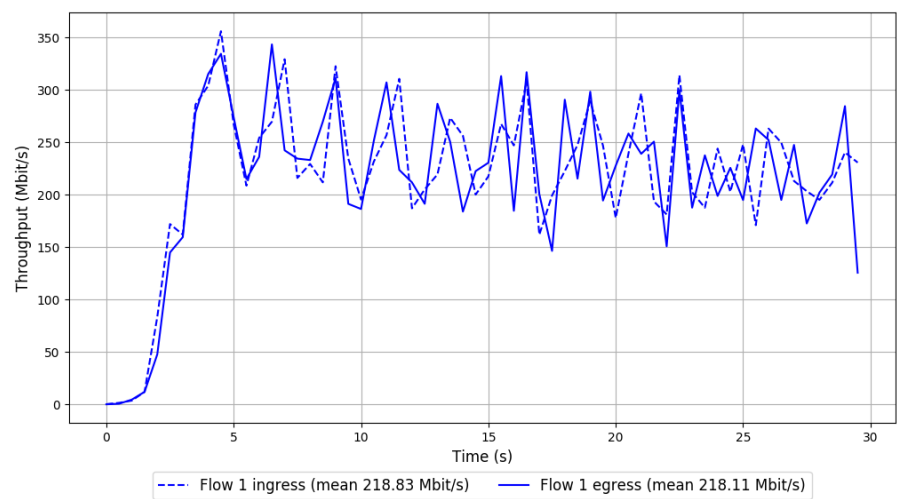
-- Flow 1:

Average throughput: 218.11 Mbit/s

95th percentile per-packet one-way delay: 111.118 ms

Loss rate: 1.11%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-12 19:50:03

End at: 2018-02-12 19:50:33

Below is generated by plot.py at 2018-02-13 00:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 277.63 Mbit/s

95th percentile per-packet one-way delay: 156.319 ms

Loss rate: 0.79%

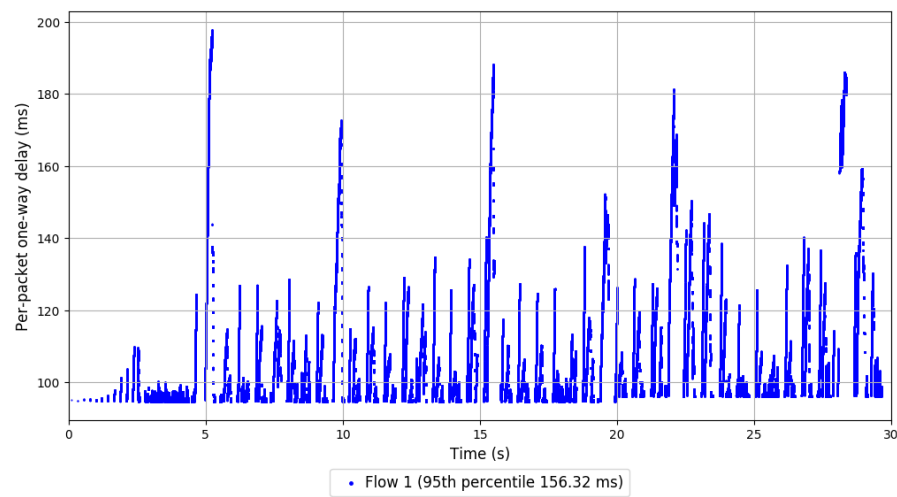
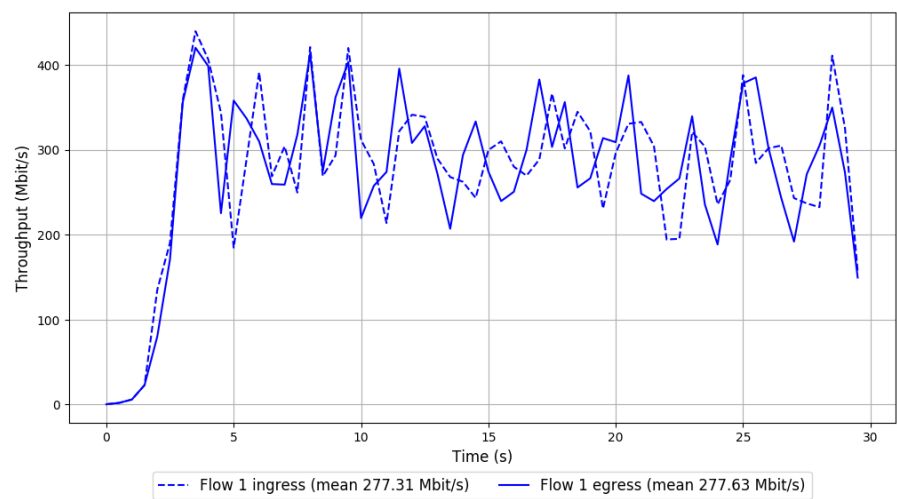
-- Flow 1:

Average throughput: 277.63 Mbit/s

95th percentile per-packet one-way delay: 156.319 ms

Loss rate: 0.79%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-12 20:05:20

End at: 2018-02-12 20:05:50

Below is generated by plot.py at 2018-02-13 01:00:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 141.88 Mbit/s

95th percentile per-packet one-way delay: 95.472 ms

Loss rate: 1.29%

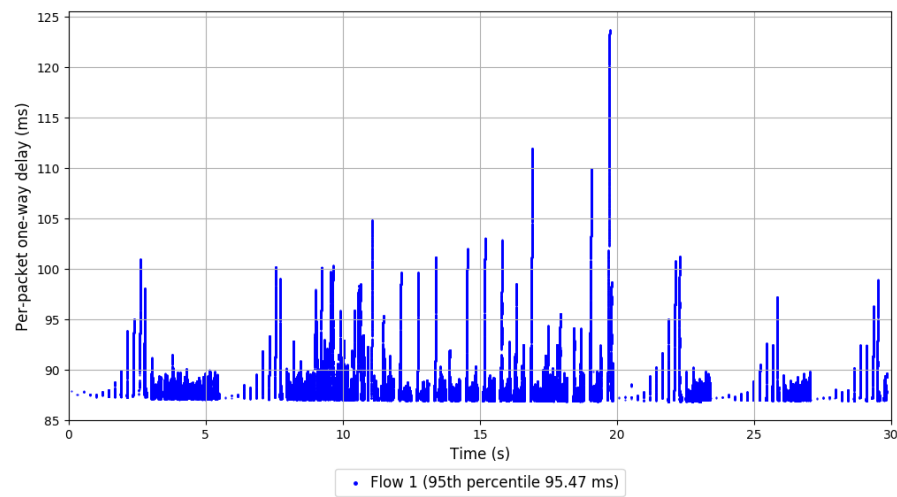
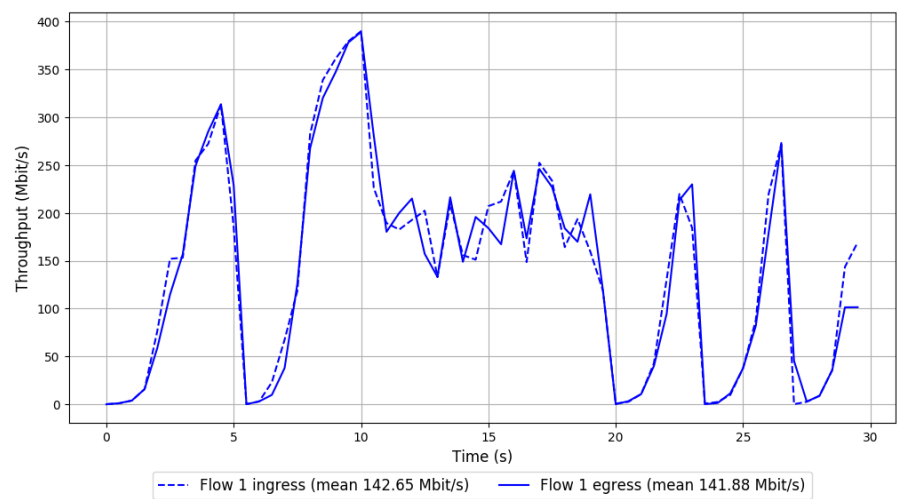
-- Flow 1:

Average throughput: 141.88 Mbit/s

95th percentile per-packet one-way delay: 95.472 ms

Loss rate: 1.29%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-12 20:20:41

End at: 2018-02-12 20:21:11

Below is generated by plot.py at 2018-02-13 01:00:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 136.77 Mbit/s

95th percentile per-packet one-way delay: 109.007 ms

Loss rate: 0.73%

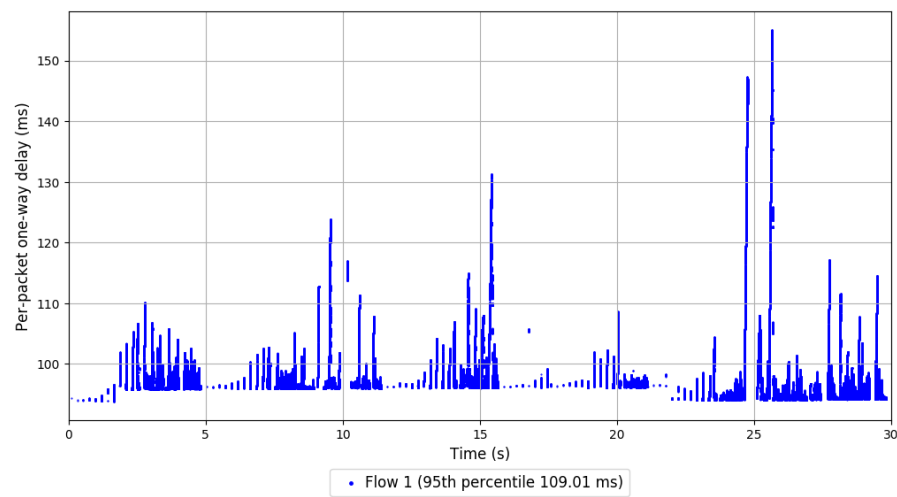
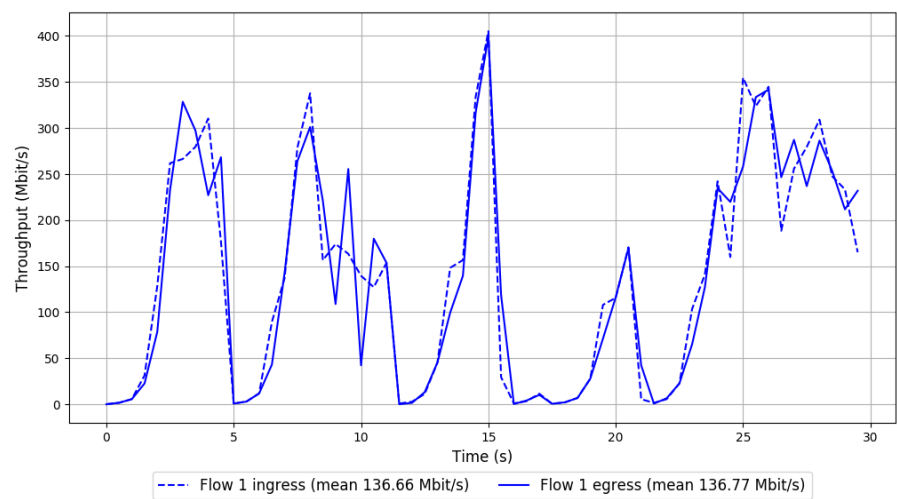
-- Flow 1:

Average throughput: 136.77 Mbit/s

95th percentile per-packet one-way delay: 109.007 ms

Loss rate: 0.73%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-12 20:36:21

End at: 2018-02-12 20:36:51

Below is generated by plot.py at 2018-02-13 01:02:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.59 Mbit/s

95th percentile per-packet one-way delay: 141.833 ms

Loss rate: 1.20%

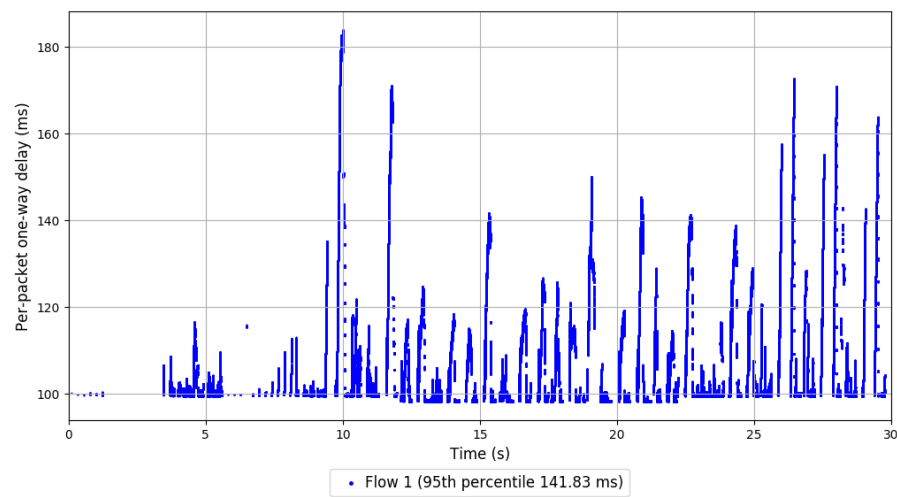
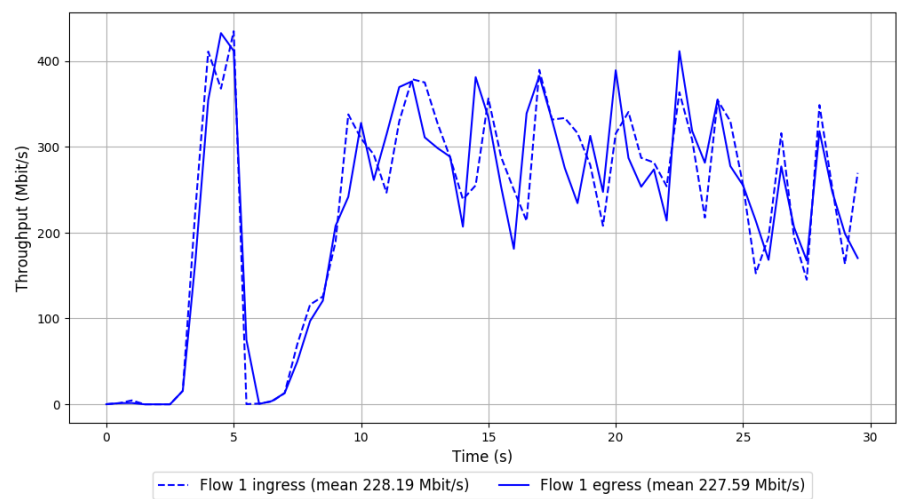
-- Flow 1:

Average throughput: 227.59 Mbit/s

95th percentile per-packet one-way delay: 141.833 ms

Loss rate: 1.20%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-12 20:51:57

End at: 2018-02-12 20:52:27

Below is generated by plot.py at 2018-02-13 01:02:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.48 Mbit/s

95th percentile per-packet one-way delay: 144.677 ms

Loss rate: 1.77%

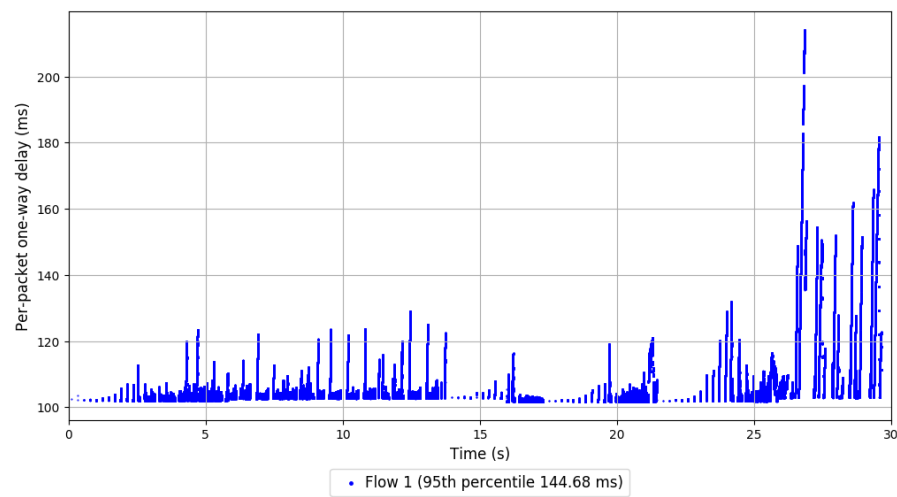
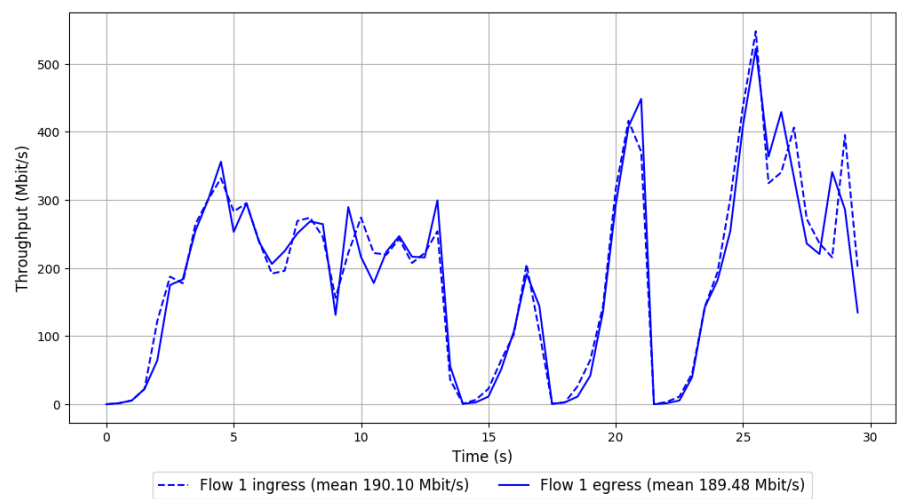
-- Flow 1:

Average throughput: 189.48 Mbit/s

95th percentile per-packet one-way delay: 144.677 ms

Loss rate: 1.77%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-12 21:07:44

End at: 2018-02-12 21:08:14

Below is generated by plot.py at 2018-02-13 01:02:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 163.66 Mbit/s

95th percentile per-packet one-way delay: 241.681 ms

Loss rate: 4.74%

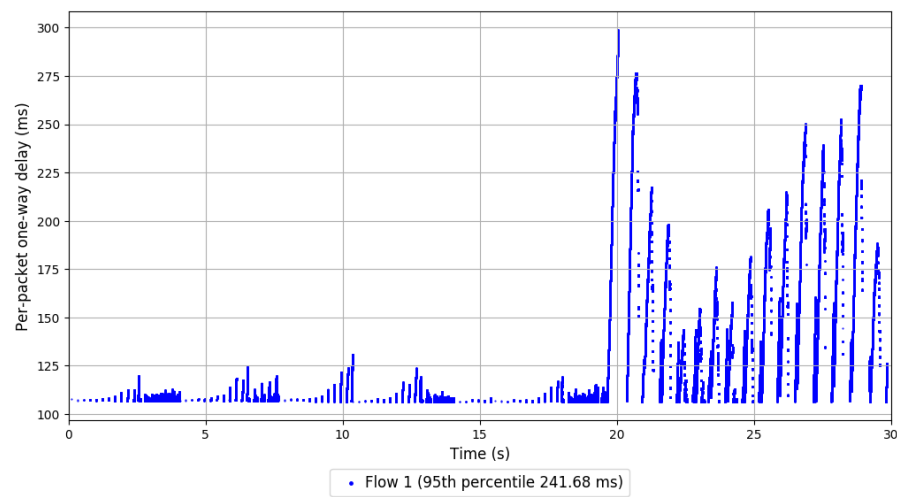
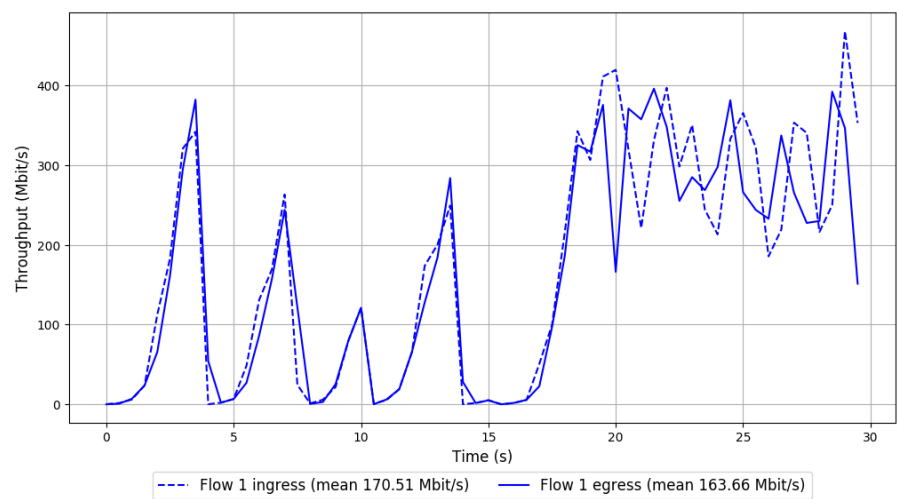
-- Flow 1:

Average throughput: 163.66 Mbit/s

95th percentile per-packet one-way delay: 241.681 ms

Loss rate: 4.74%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-12 21:23:09

End at: 2018-02-12 21:23:39

Below is generated by plot.py at 2018-02-13 01:02:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.61 Mbit/s

95th percentile per-packet one-way delay: 124.003 ms

Loss rate: 1.15%

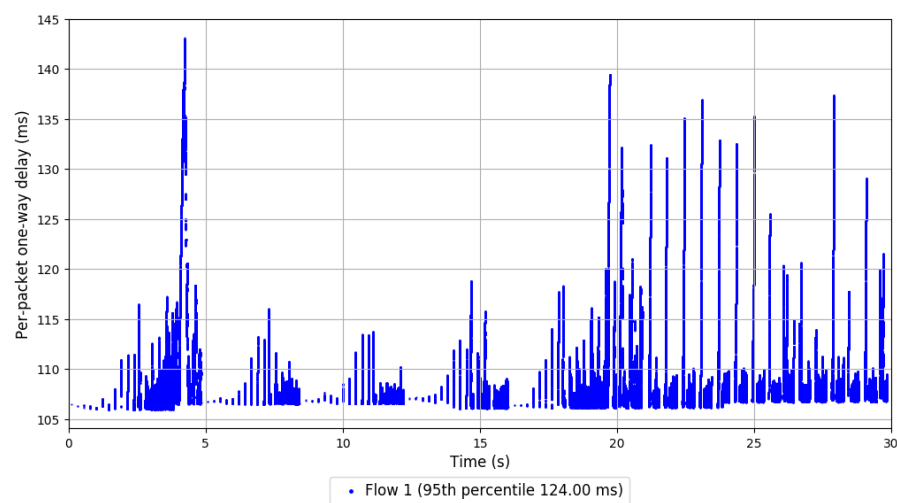
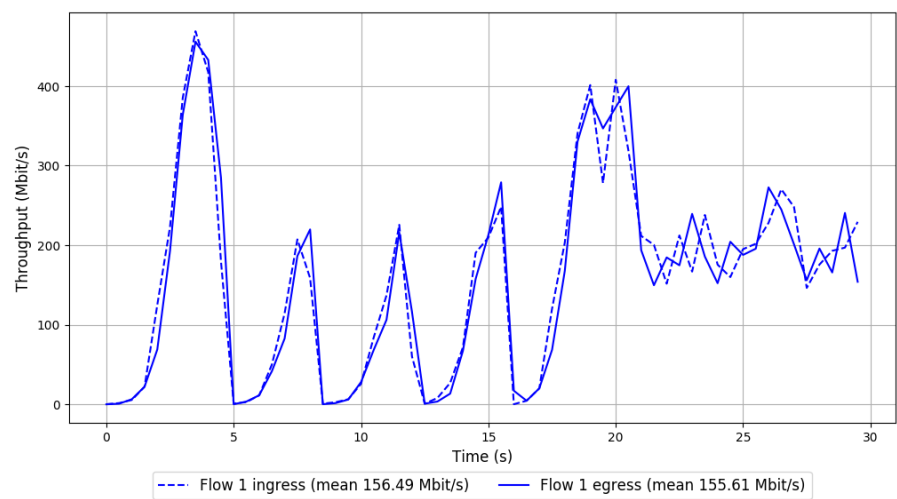
-- Flow 1:

Average throughput: 155.61 Mbit/s

95th percentile per-packet one-way delay: 124.003 ms

Loss rate: 1.15%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-12 21:38:46

End at: 2018-02-12 21:39:16

Below is generated by plot.py at 2018-02-13 01:02:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.48 Mbit/s

95th percentile per-packet one-way delay: 122.590 ms

Loss rate: 0.07%

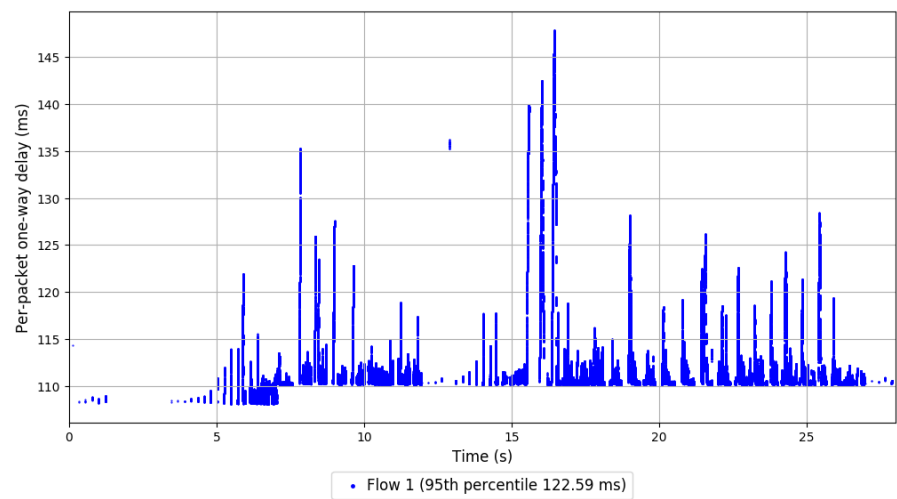
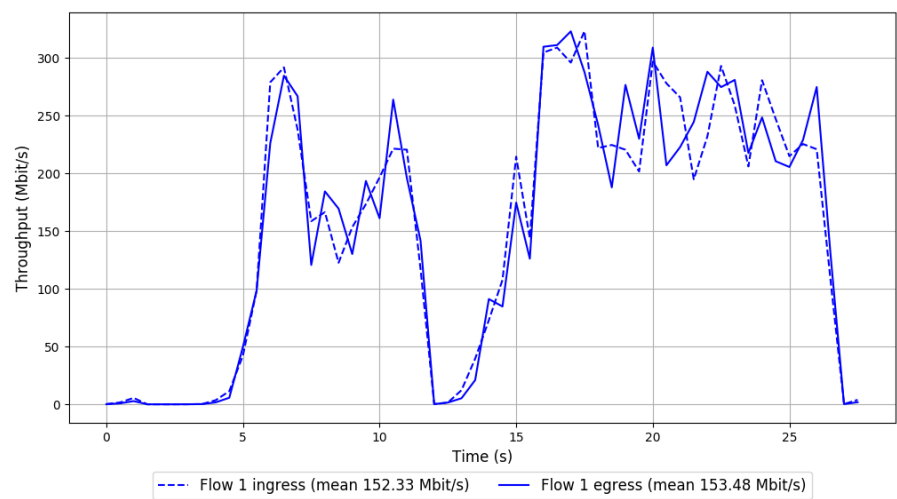
-- Flow 1:

Average throughput: 153.48 Mbit/s

95th percentile per-packet one-way delay: 122.590 ms

Loss rate: 0.07%

Run 10: Report of Verus — Data Link

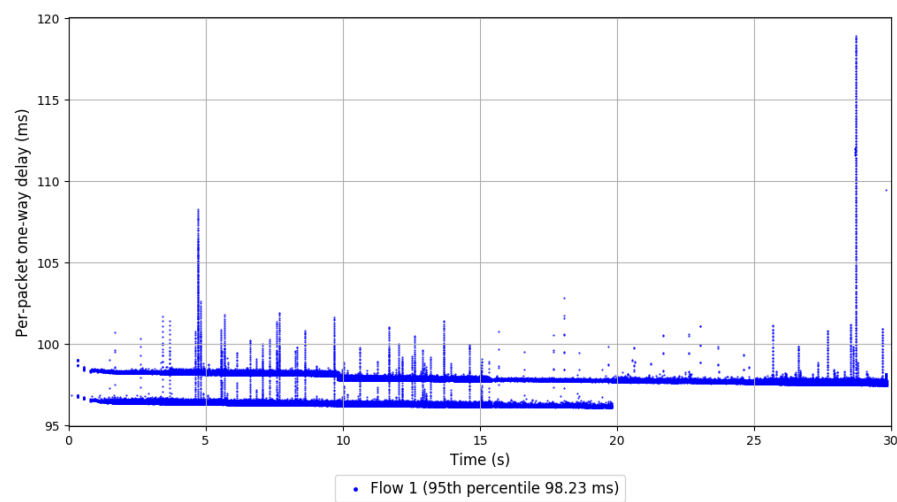
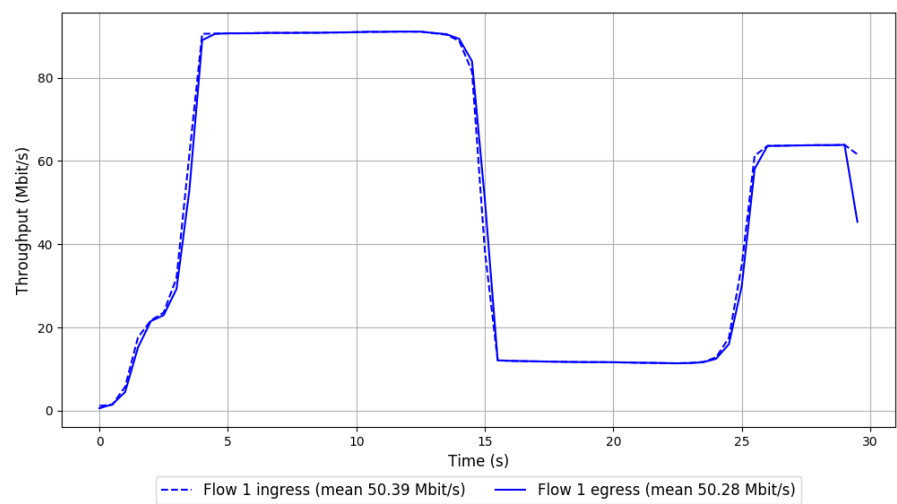


```
Run 1: Statistics of Copa

Start at: 2018-02-12 19:32:13
End at: 2018-02-12 19:32:43

# Below is generated by plot.py at 2018-02-13 01:02:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.28 Mbit/s
95th percentile per-packet one-way delay: 98.229 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 50.28 Mbit/s
95th percentile per-packet one-way delay: 98.229 ms
Loss rate: 0.95%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-12 19:48:08

End at: 2018-02-12 19:48:38

Below is generated by plot.py at 2018-02-13 01:02:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.31 Mbit/s

95th percentile per-packet one-way delay: 96.965 ms

Loss rate: 0.50%

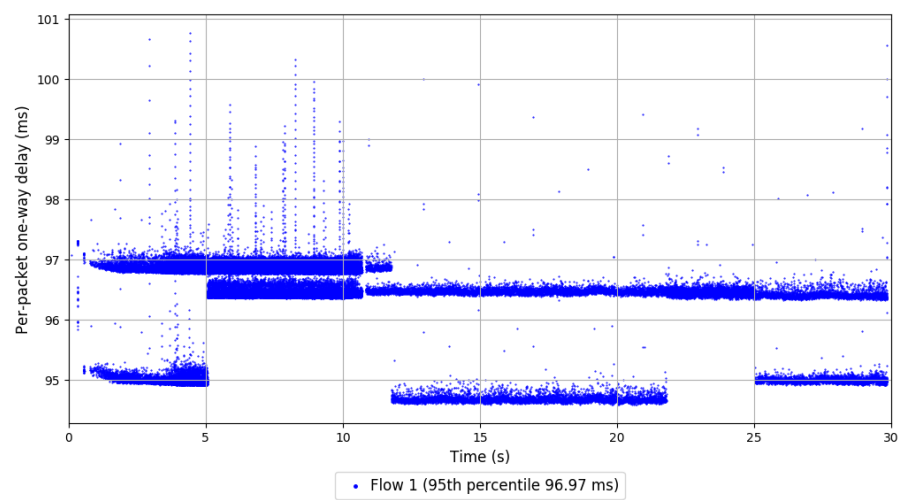
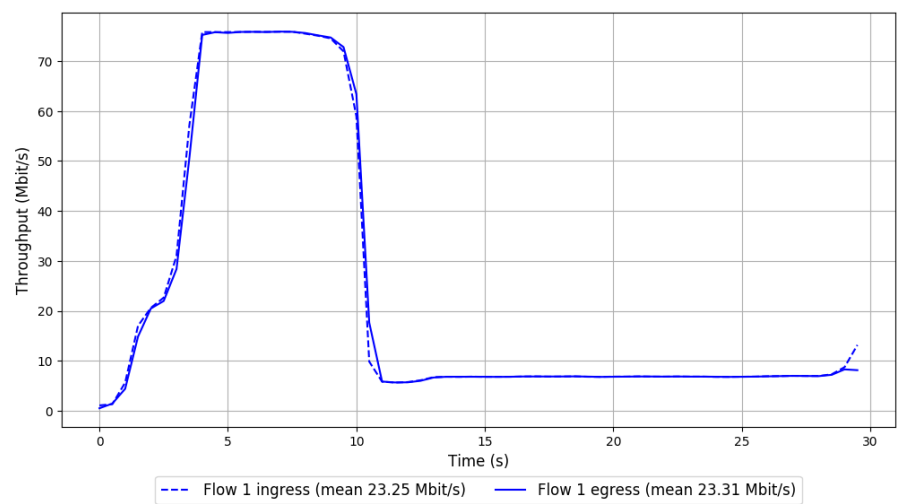
-- Flow 1:

Average throughput: 23.31 Mbit/s

95th percentile per-packet one-way delay: 96.965 ms

Loss rate: 0.50%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-12 20:03:22

End at: 2018-02-12 20:03:52

Below is generated by plot.py at 2018-02-13 01:02:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.35 Mbit/s

95th percentile per-packet one-way delay: 88.866 ms

Loss rate: 0.83%

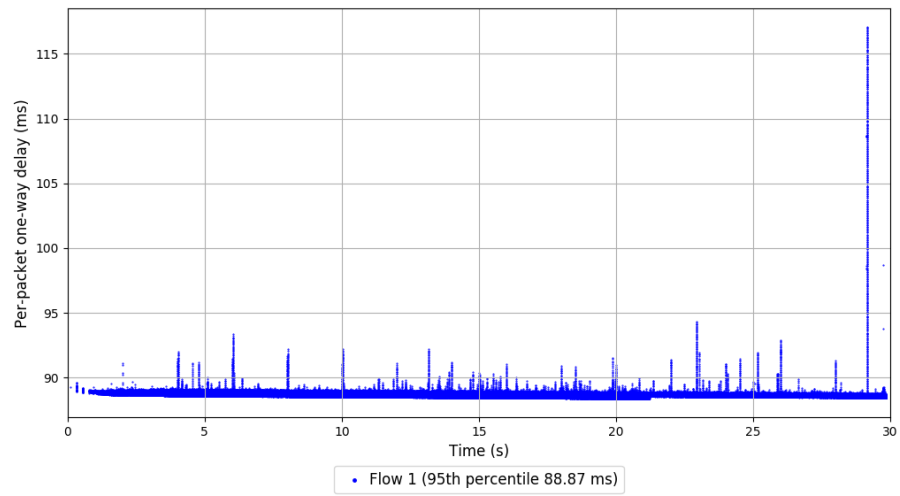
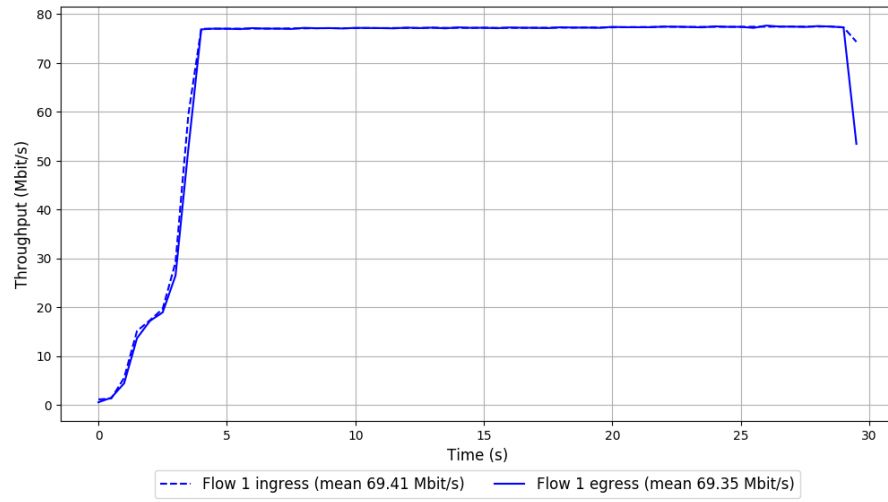
-- Flow 1:

Average throughput: 69.35 Mbit/s

95th percentile per-packet one-way delay: 88.866 ms

Loss rate: 0.83%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-12 20:18:49

End at: 2018-02-12 20:19:19

Below is generated by plot.py at 2018-02-13 01:02:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.92 Mbit/s

95th percentile per-packet one-way delay: 94.684 ms

Loss rate: 1.10%

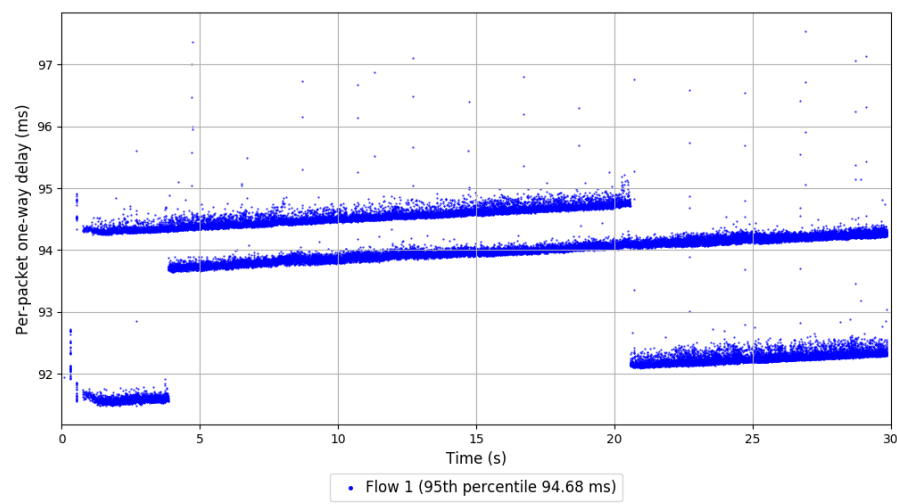
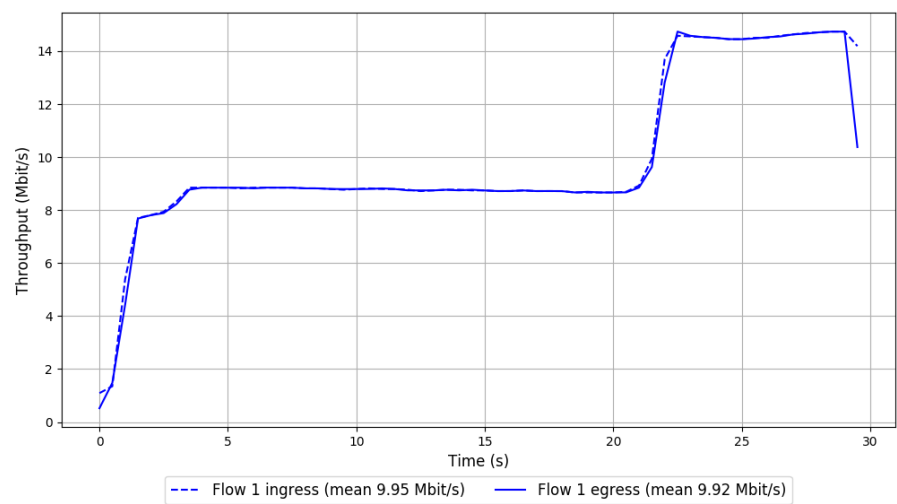
-- Flow 1:

Average throughput: 9.92 Mbit/s

95th percentile per-packet one-way delay: 94.684 ms

Loss rate: 1.10%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-12 20:34:23

End at: 2018-02-12 20:34:53

Below is generated by plot.py at 2018-02-13 01:03:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.35 Mbit/s

95th percentile per-packet one-way delay: 100.151 ms

Loss rate: 0.07%

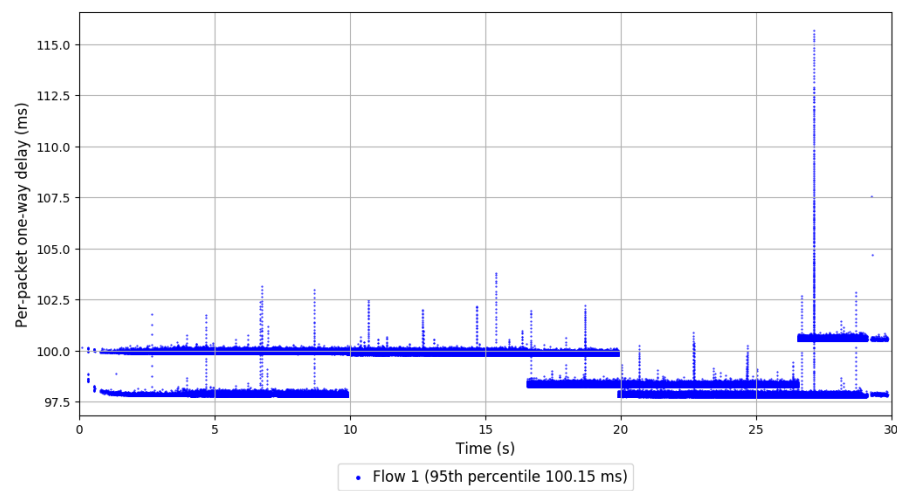
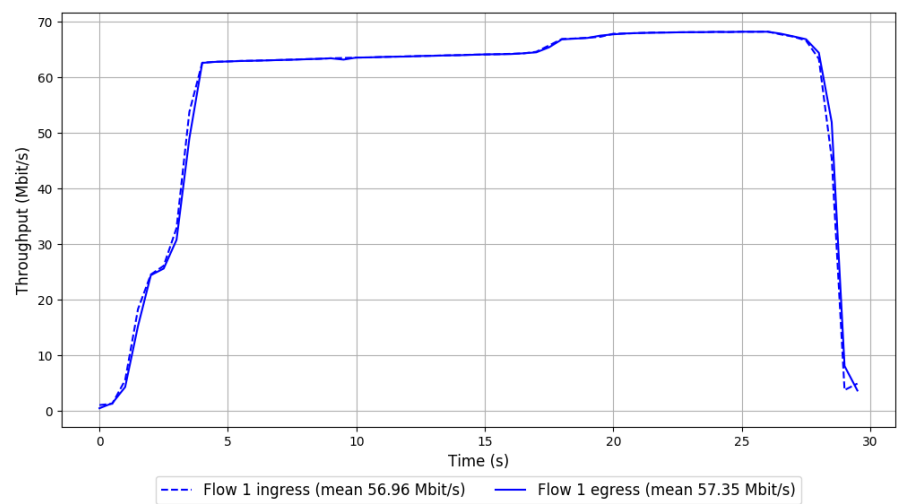
-- Flow 1:

Average throughput: 57.35 Mbit/s

95th percentile per-packet one-way delay: 100.151 ms

Loss rate: 0.07%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-12 20:50:01

End at: 2018-02-12 20:50:31

Below is generated by plot.py at 2018-02-13 01:03:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.52 Mbit/s

95th percentile per-packet one-way delay: 100.937 ms

Loss rate: 0.80%

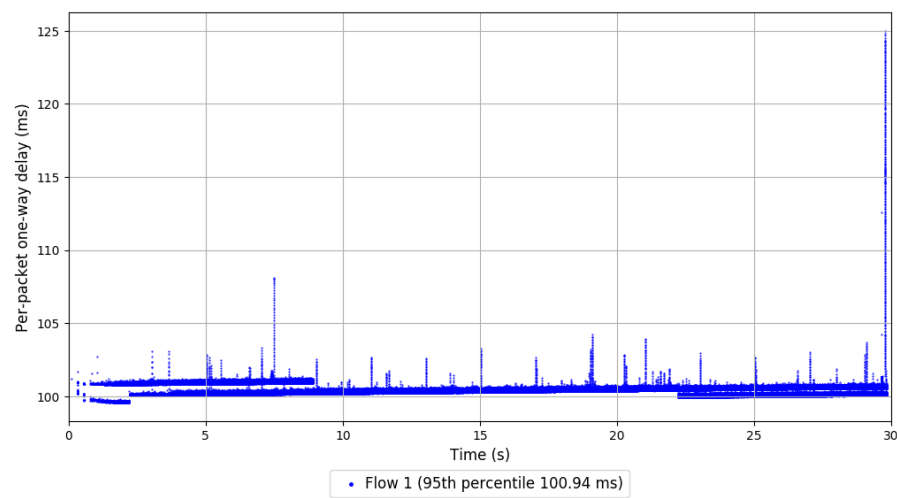
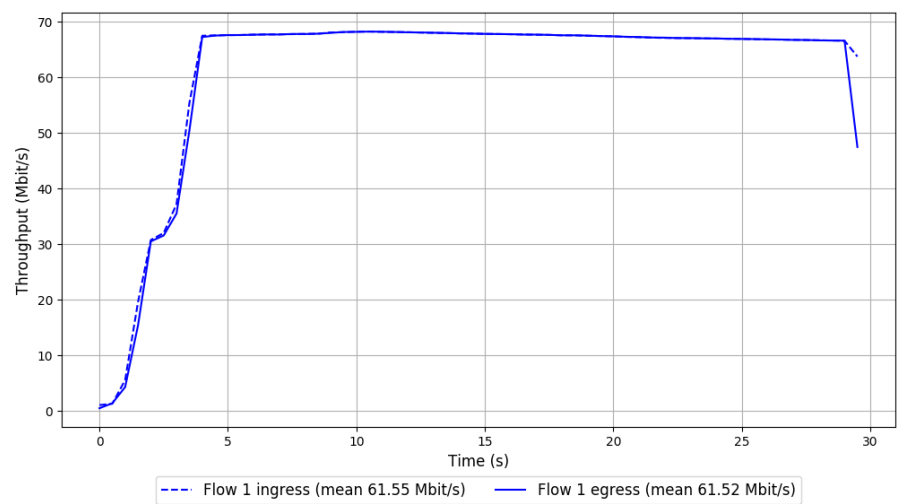
-- Flow 1:

Average throughput: 61.52 Mbit/s

95th percentile per-packet one-way delay: 100.937 ms

Loss rate: 0.80%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-12 21:05:55

End at: 2018-02-12 21:06:25

Below is generated by plot.py at 2018-02-13 01:03:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.56 Mbit/s

95th percentile per-packet one-way delay: 107.064 ms

Loss rate: 0.77%

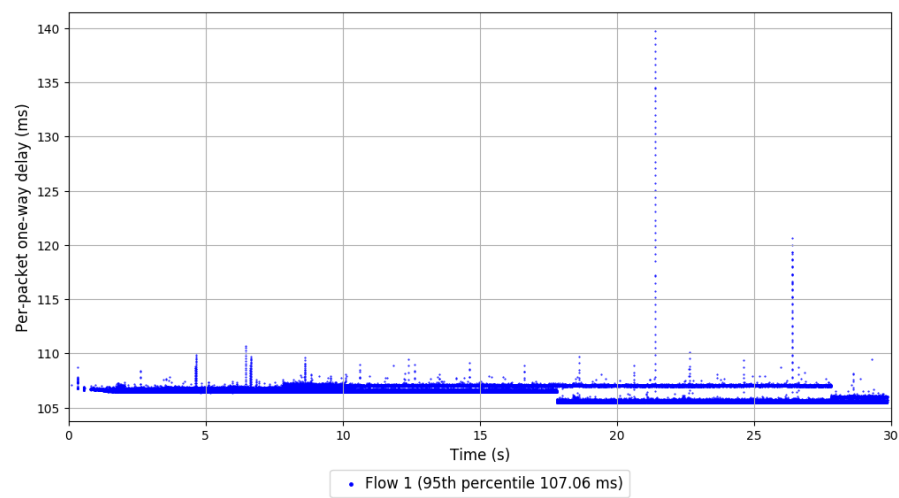
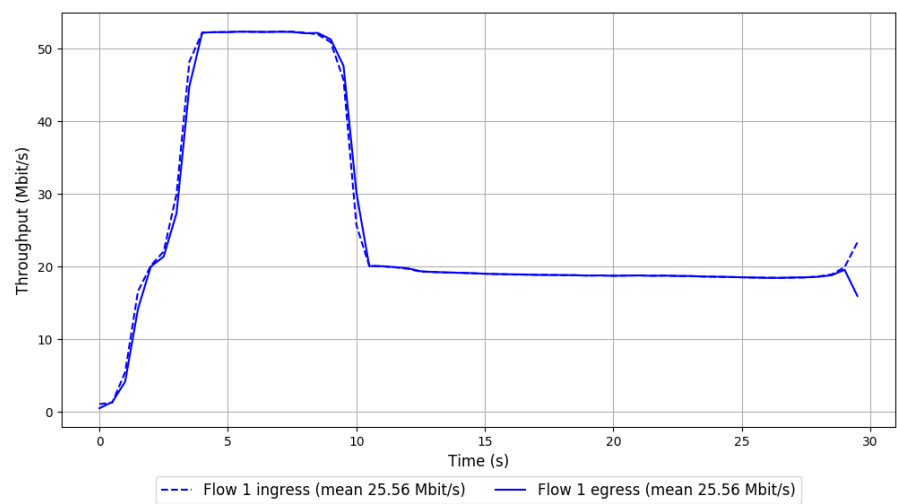
-- Flow 1:

Average throughput: 25.56 Mbit/s

95th percentile per-packet one-way delay: 107.064 ms

Loss rate: 0.77%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-12 21:21:15

End at: 2018-02-12 21:21:45

Below is generated by plot.py at 2018-02-13 01:03:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.65 Mbit/s

95th percentile per-packet one-way delay: 105.422 ms

Loss rate: 0.47%

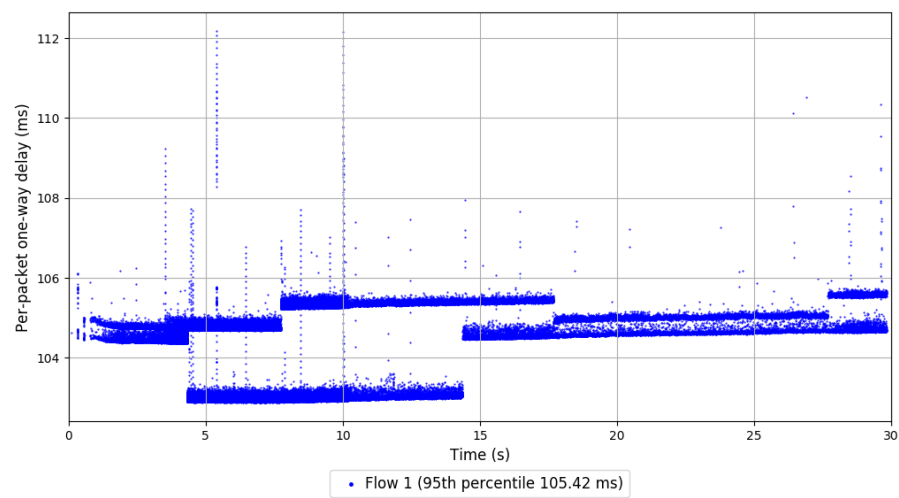
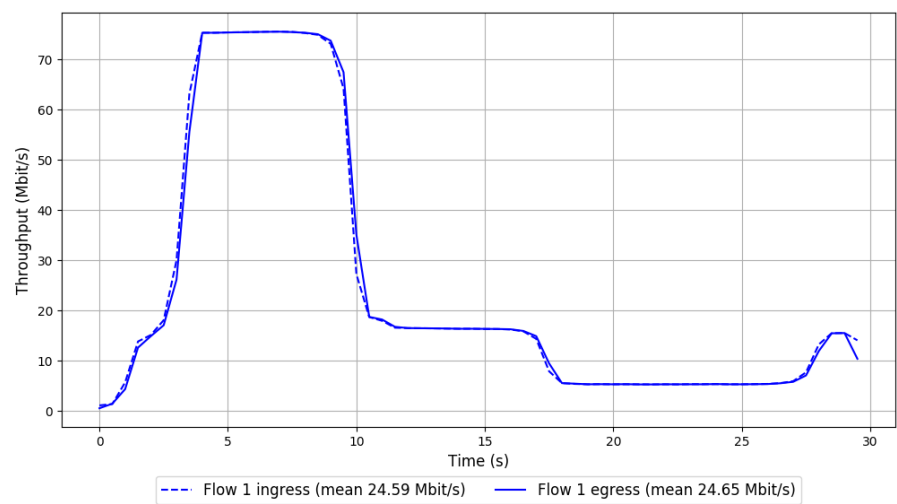
-- Flow 1:

Average throughput: 24.65 Mbit/s

95th percentile per-packet one-way delay: 105.422 ms

Loss rate: 0.47%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-12 21:36:46

End at: 2018-02-12 21:37:16

Below is generated by plot.py at 2018-02-13 01:04:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.76 Mbit/s

95th percentile per-packet one-way delay: 110.188 ms

Loss rate: 0.90%

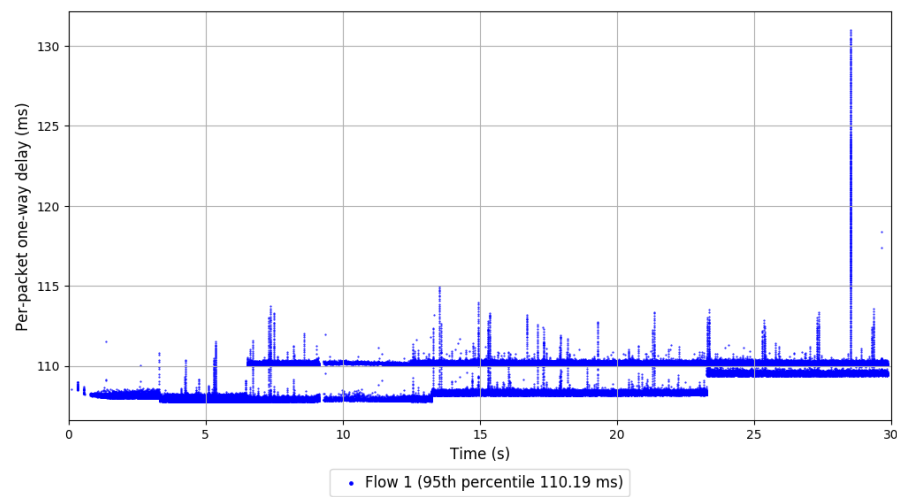
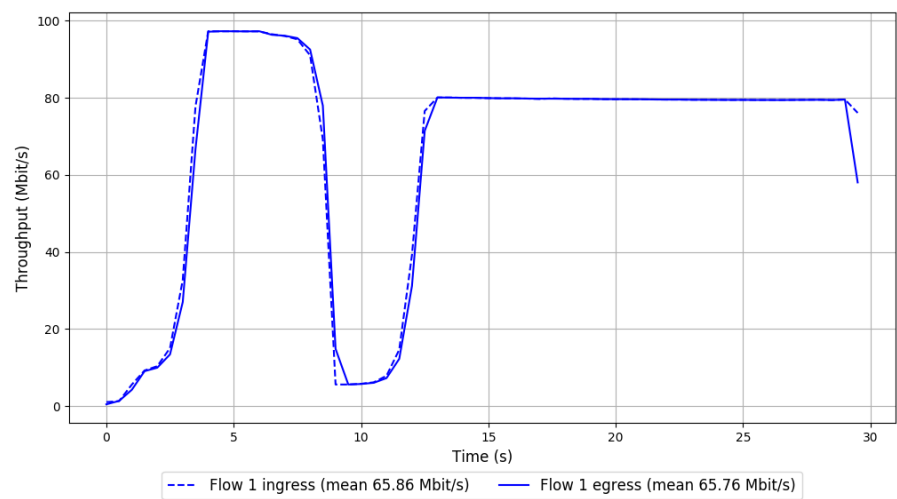
-- Flow 1:

Average throughput: 65.76 Mbit/s

95th percentile per-packet one-way delay: 110.188 ms

Loss rate: 0.90%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-12 21:52:09

End at: 2018-02-12 21:52:39

Below is generated by plot.py at 2018-02-13 01:04:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.61 Mbit/s

95th percentile per-packet one-way delay: 109.882 ms

Loss rate: 1.89%

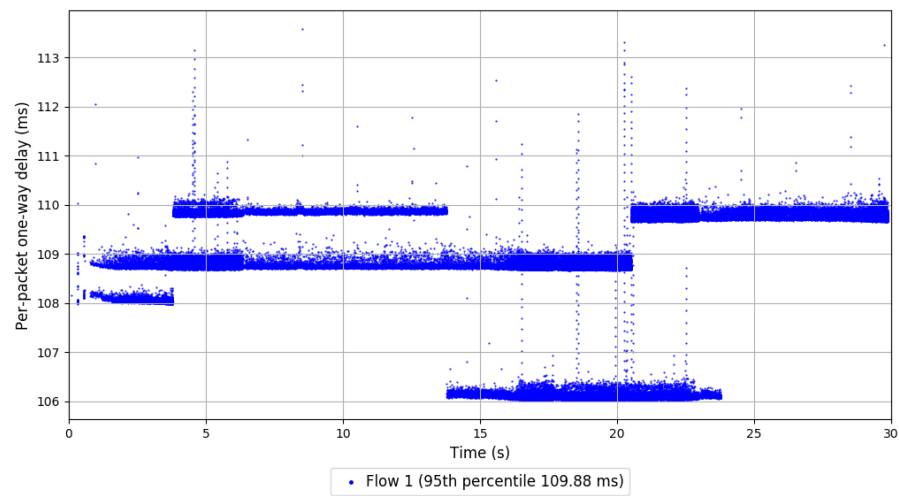
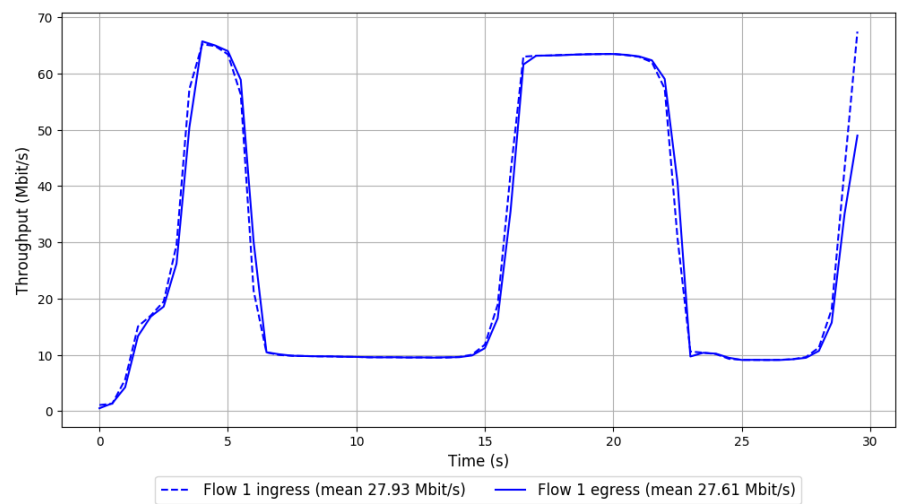
-- Flow 1:

Average throughput: 27.61 Mbit/s

95th percentile per-packet one-way delay: 109.882 ms

Loss rate: 1.89%

Run 10: Report of Copa — Data Link

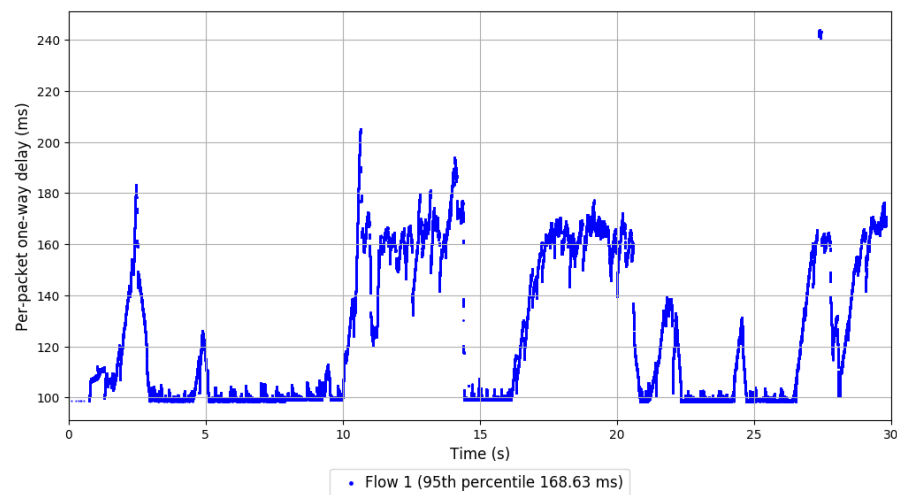
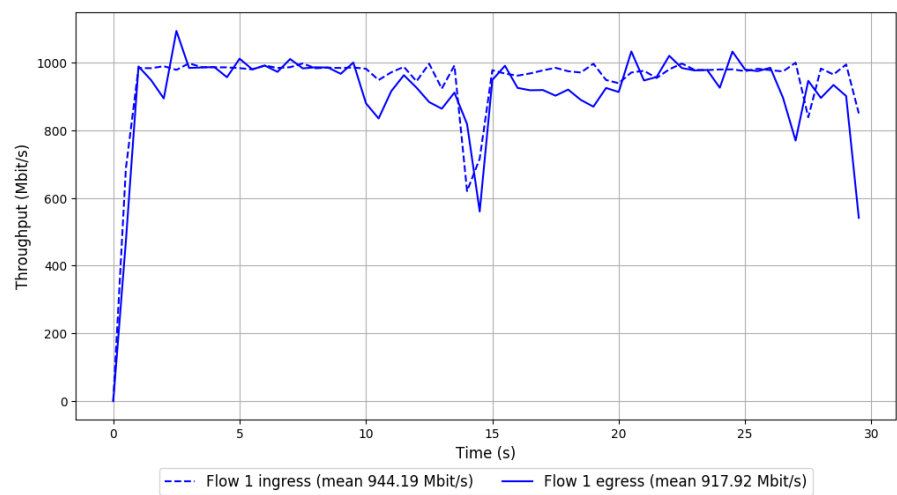


```
Run 1: Statistics of FillP

Start at: 2018-02-12 19:28:32
End at: 2018-02-12 19:29:02

# Below is generated by plot.py at 2018-02-13 01:19:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 917.92 Mbit/s
95th percentile per-packet one-way delay: 168.626 ms
Loss rate: 3.48%
-- Flow 1:
Average throughput: 917.92 Mbit/s
95th percentile per-packet one-way delay: 168.626 ms
Loss rate: 3.48%
```

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-12 19:44:20

End at: 2018-02-12 19:44:50

Below is generated by plot.py at 2018-02-13 01:19:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 925.04 Mbit/s

95th percentile per-packet one-way delay: 162.093 ms

Loss rate: 1.70%

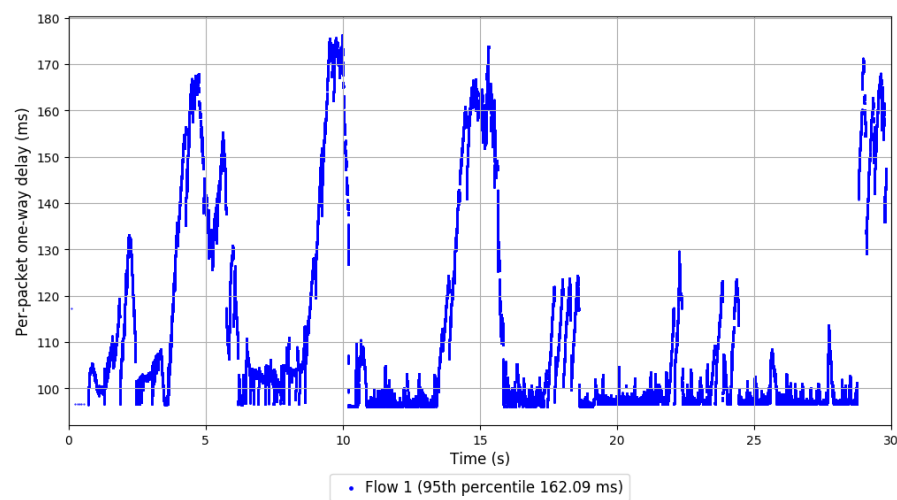
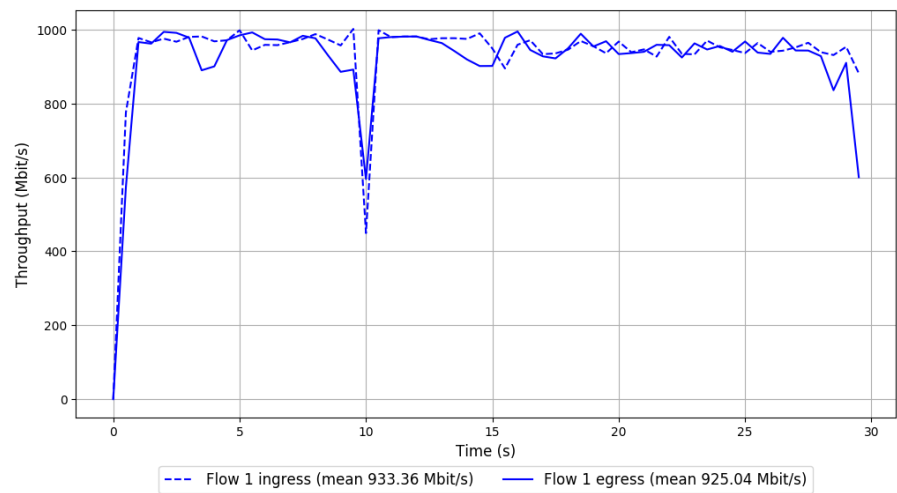
-- Flow 1:

Average throughput: 925.04 Mbit/s

95th percentile per-packet one-way delay: 162.093 ms

Loss rate: 1.70%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-12 19:59:47

End at: 2018-02-12 20:00:17

Below is generated by plot.py at 2018-02-13 01:19:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 909.26 Mbit/s

95th percentile per-packet one-way delay: 160.400 ms

Loss rate: 2.45%

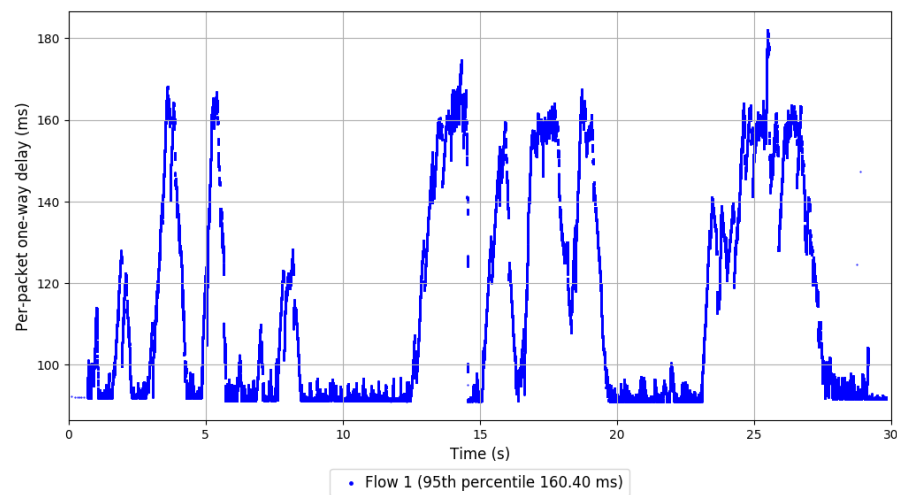
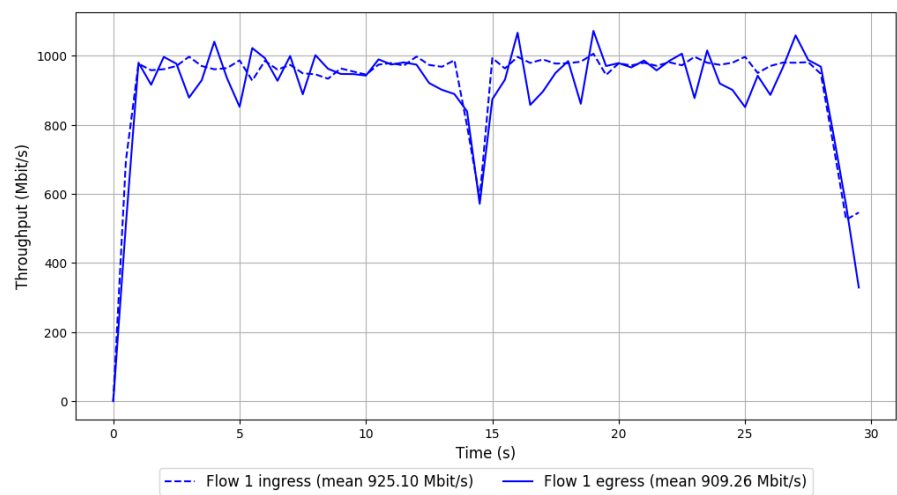
-- Flow 1:

Average throughput: 909.26 Mbit/s

95th percentile per-packet one-way delay: 160.400 ms

Loss rate: 2.45%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-12 20:15:02

End at: 2018-02-12 20:15:32

Below is generated by plot.py at 2018-02-13 01:19:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 912.09 Mbit/s

95th percentile per-packet one-way delay: 266.700 ms

Loss rate: 2.14%

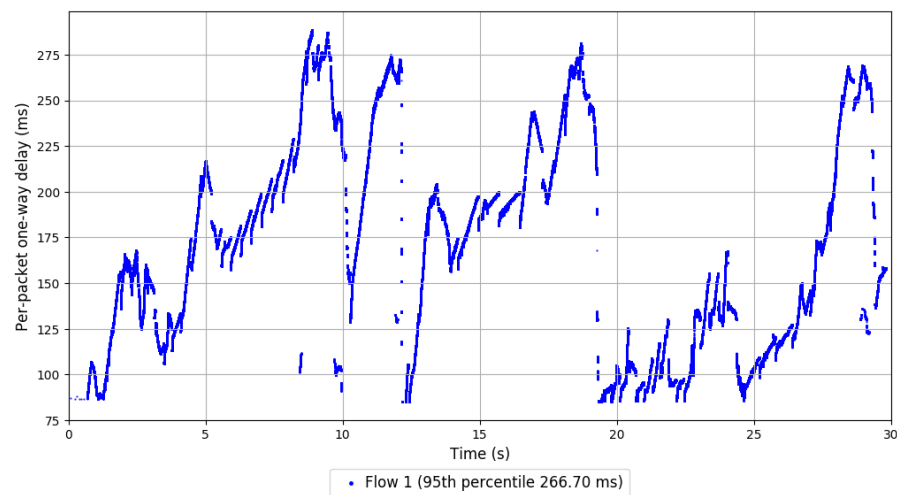
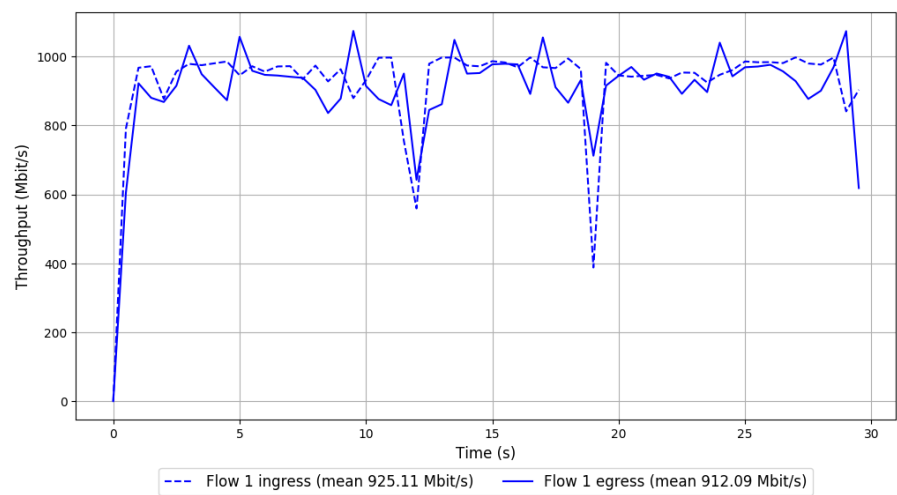
-- Flow 1:

Average throughput: 912.09 Mbit/s

95th percentile per-packet one-way delay: 266.700 ms

Loss rate: 2.14%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-12 20:30:38

End at: 2018-02-12 20:31:08

Below is generated by plot.py at 2018-02-13 01:20:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 954.88 Mbit/s

95th percentile per-packet one-way delay: 157.230 ms

Loss rate: 1.57%

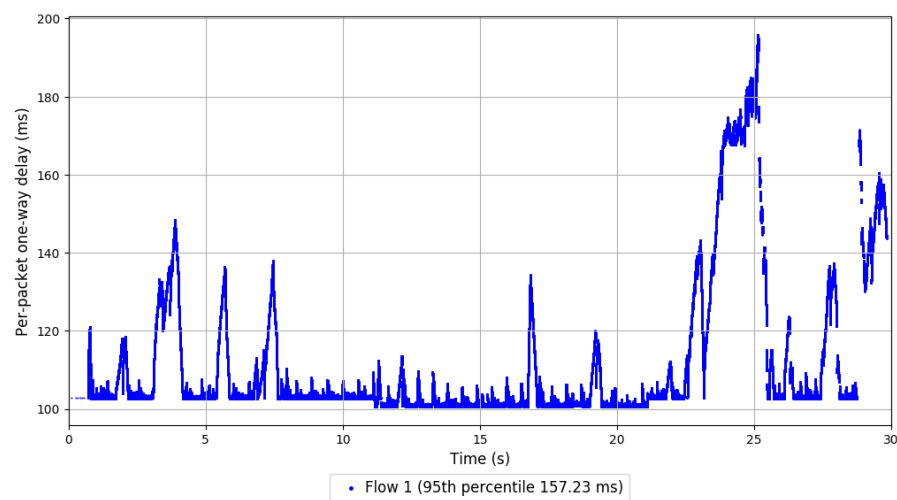
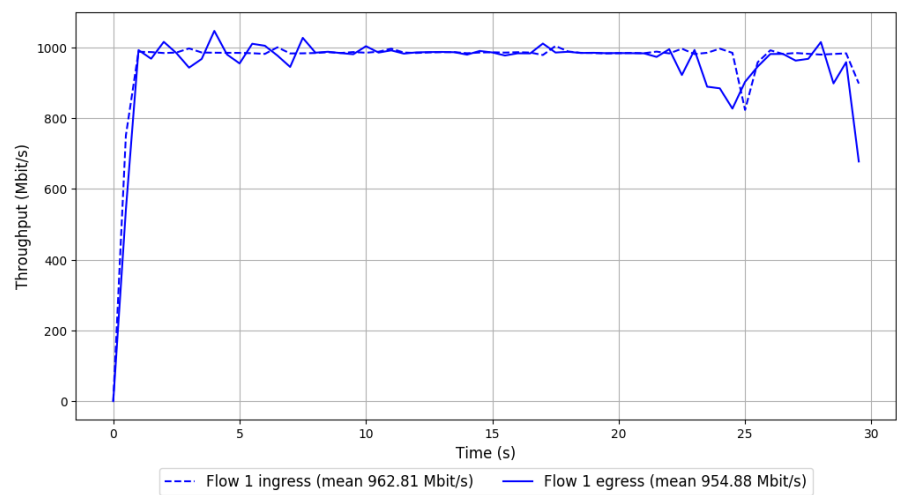
-- Flow 1:

Average throughput: 954.88 Mbit/s

95th percentile per-packet one-way delay: 157.230 ms

Loss rate: 1.57%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

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

End at: 2018-02-12 20:46:40

Below is generated by plot.py at 2018-02-13 01:20:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 943.99 Mbit/s

95th percentile per-packet one-way delay: 161.909 ms

Loss rate: 1.55%

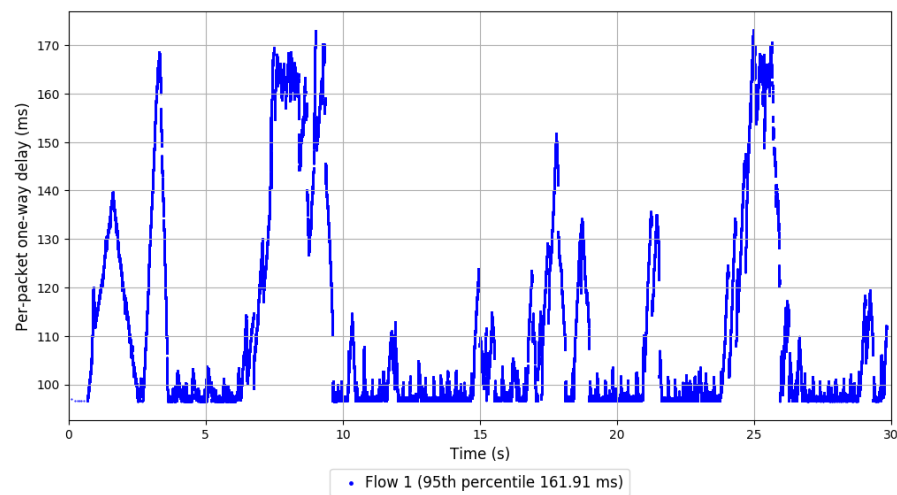
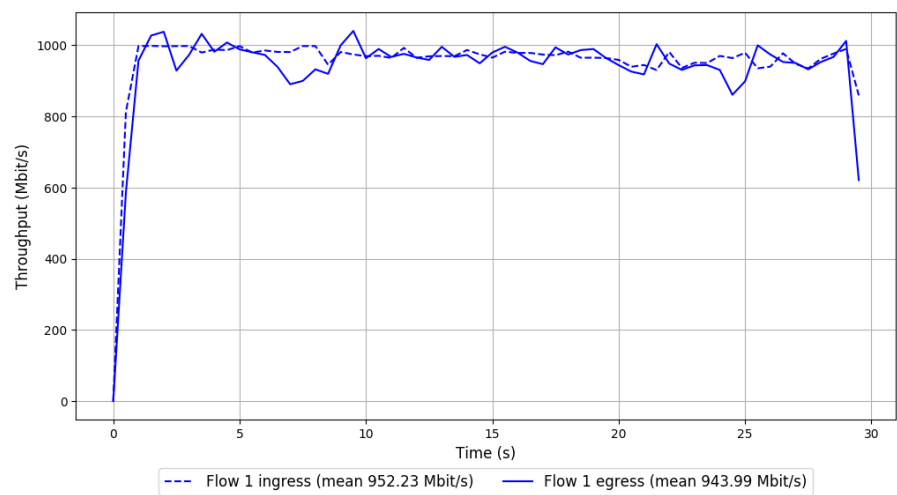
-- Flow 1:

Average throughput: 943.99 Mbit/s

95th percentile per-packet one-way delay: 161.909 ms

Loss rate: 1.55%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-12 21:02:00

End at: 2018-02-12 21:02:30

Below is generated by plot.py at 2018-02-13 01:20:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 939.90 Mbit/s

95th percentile per-packet one-way delay: 173.769 ms

Loss rate: 2.29%

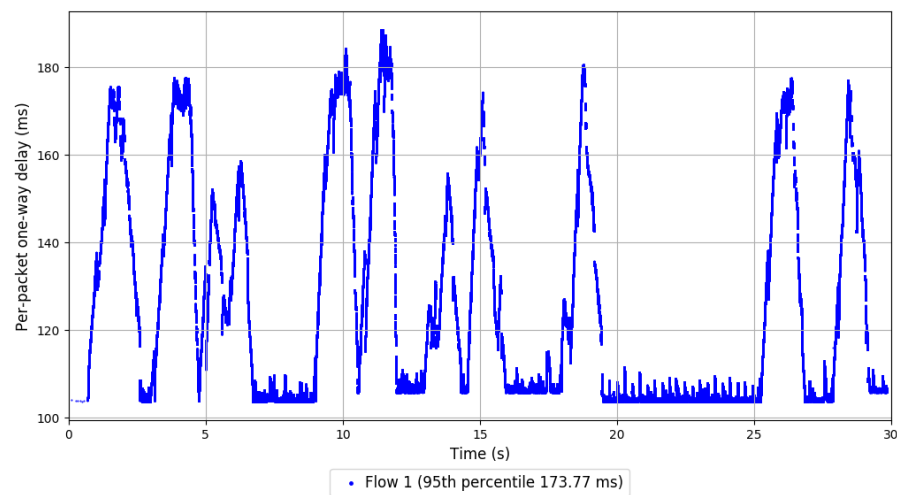
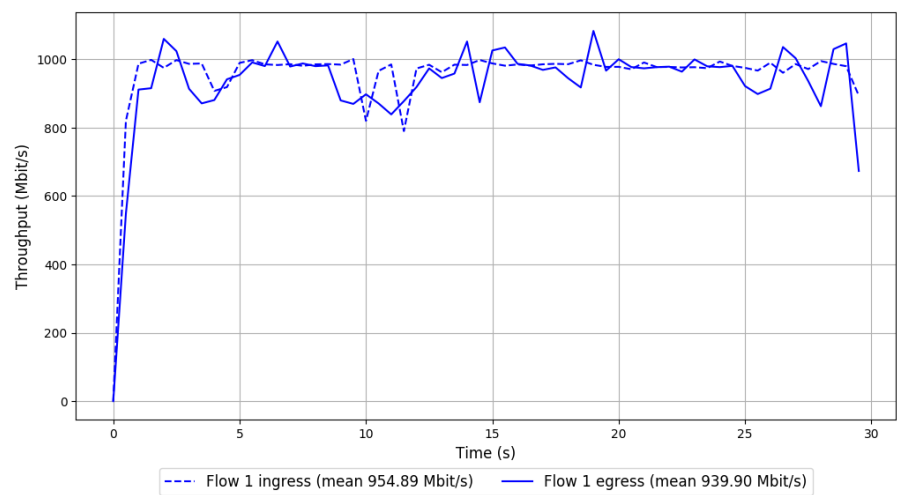
-- Flow 1:

Average throughput: 939.90 Mbit/s

95th percentile per-packet one-way delay: 173.769 ms

Loss rate: 2.29%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-12 21:17:34

End at: 2018-02-12 21:18:04

Below is generated by plot.py at 2018-02-13 01:22:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 960.52 Mbit/s

95th percentile per-packet one-way delay: 169.722 ms

Loss rate: 1.22%

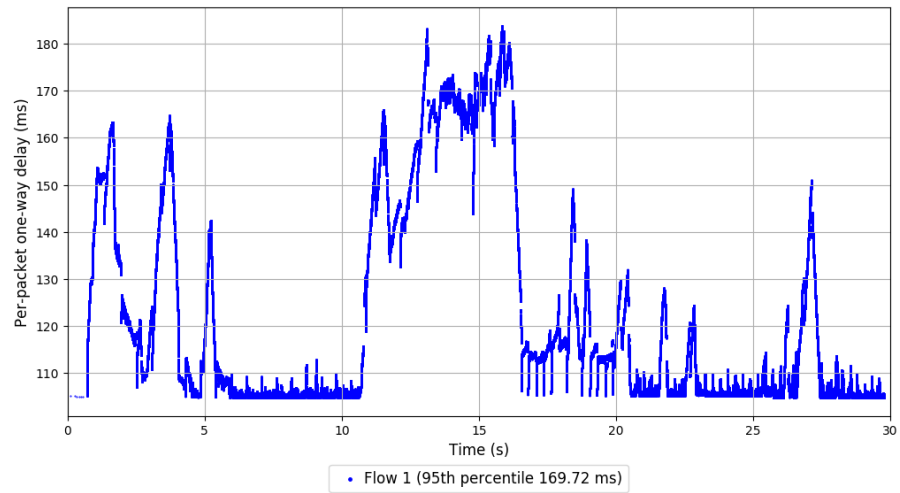
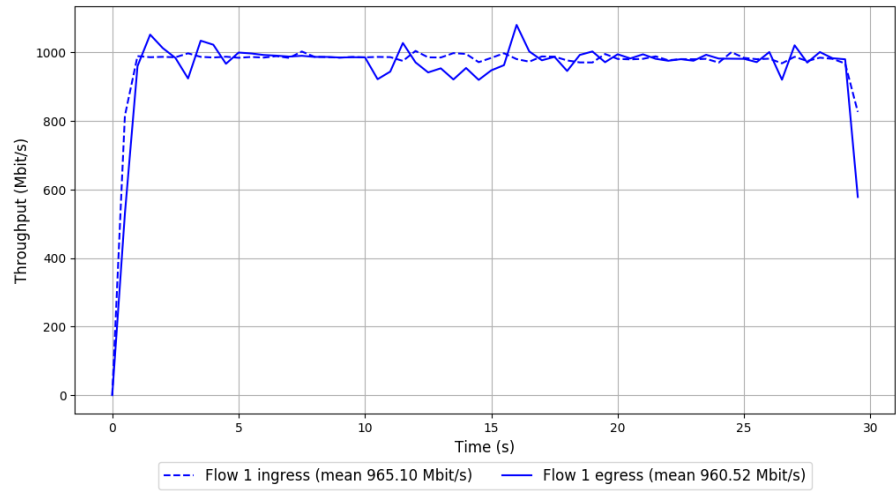
-- Flow 1:

Average throughput: 960.52 Mbit/s

95th percentile per-packet one-way delay: 169.722 ms

Loss rate: 1.22%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-12 21:32:54

End at: 2018-02-12 21:33:24

Below is generated by plot.py at 2018-02-13 01:36:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 927.50 Mbit/s

95th percentile per-packet one-way delay: 179.594 ms

Loss rate: 3.72%

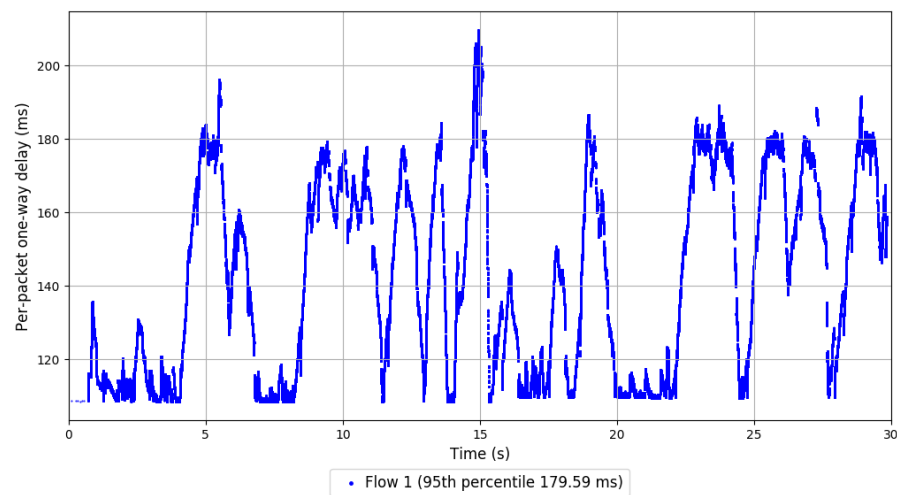
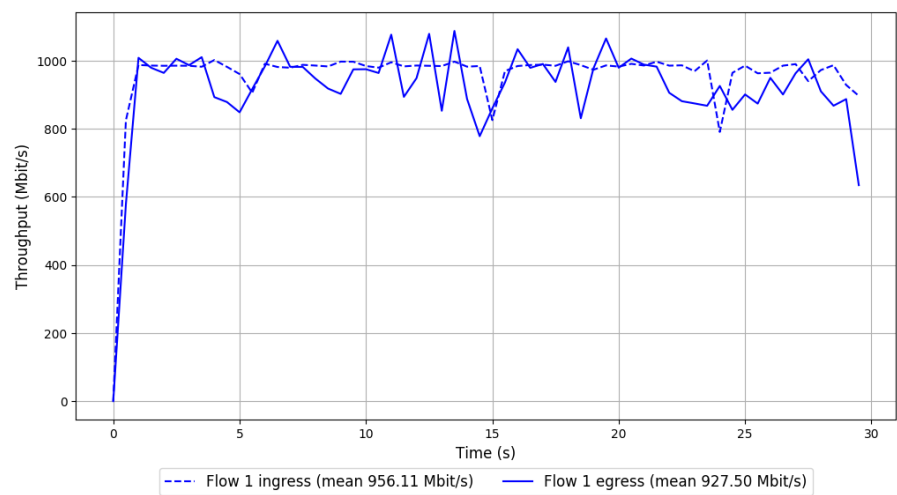
-- Flow 1:

Average throughput: 927.50 Mbit/s

95th percentile per-packet one-way delay: 179.594 ms

Loss rate: 3.72%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-12 21:48:29

End at: 2018-02-12 21:48:59

Below is generated by plot.py at 2018-02-13 01:36:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 935.14 Mbit/s

95th percentile per-packet one-way delay: 177.836 ms

Loss rate: 2.61%

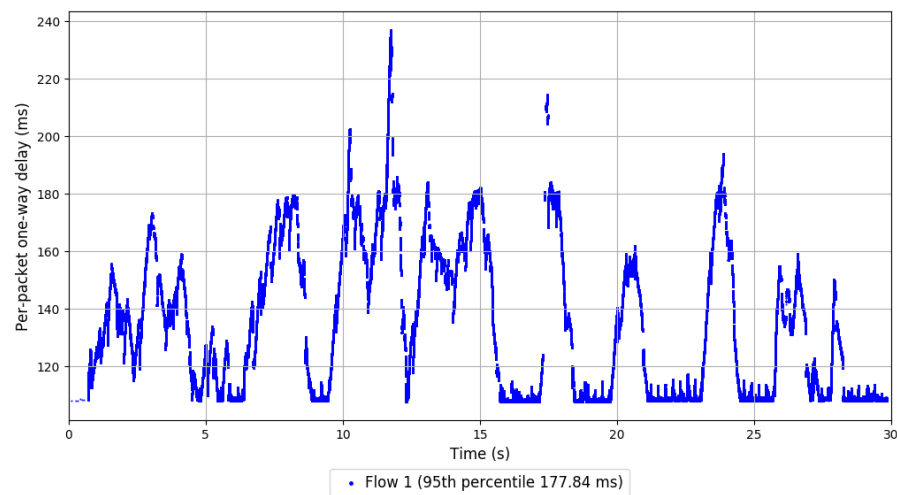
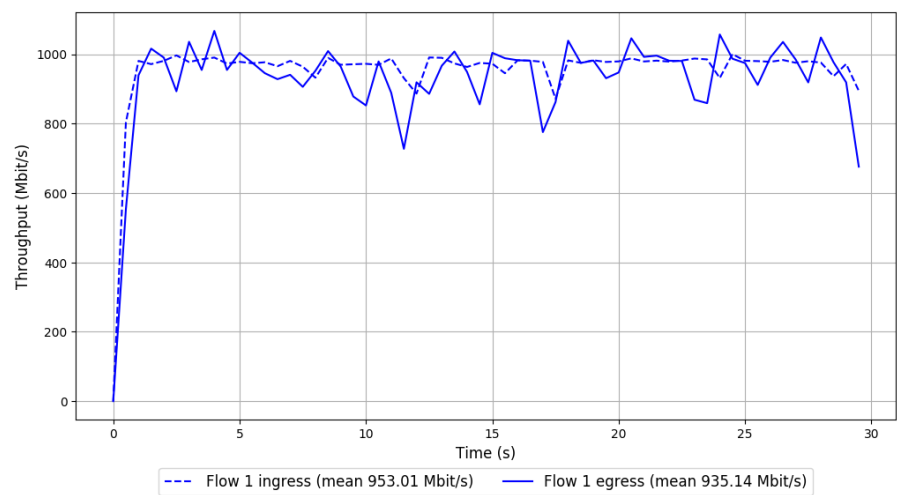
-- Flow 1:

Average throughput: 935.14 Mbit/s

95th percentile per-packet one-way delay: 177.836 ms

Loss rate: 2.61%

Run 10: Report of FillP — Data Link

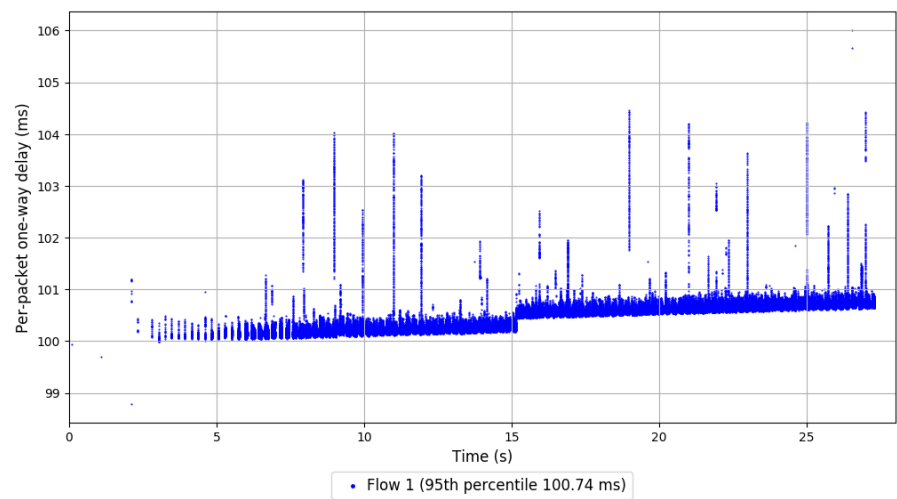
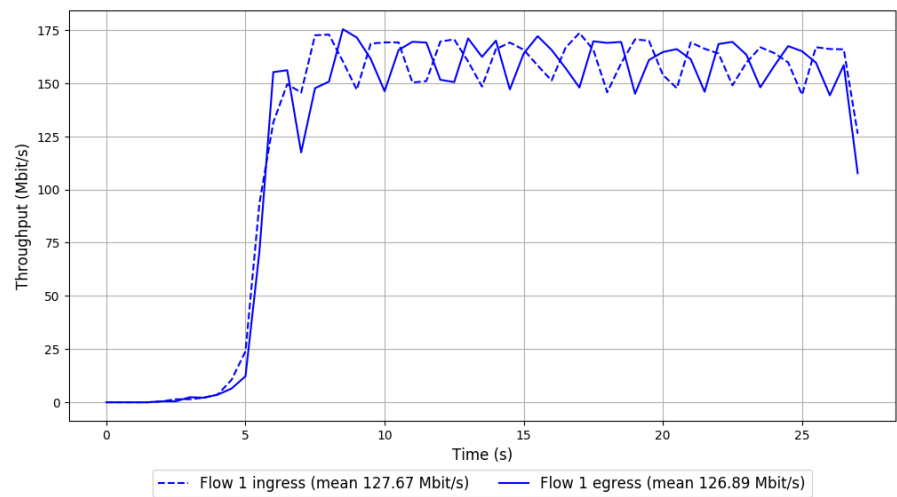


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-12 19:23:15
End at: 2018-02-12 19:23:45

# Below is generated by plot.py at 2018-02-13 01:36:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 126.89 Mbit/s
95th percentile per-packet one-way delay: 100.738 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 126.89 Mbit/s
95th percentile per-packet one-way delay: 100.738 ms
Loss rate: 1.42%
```

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

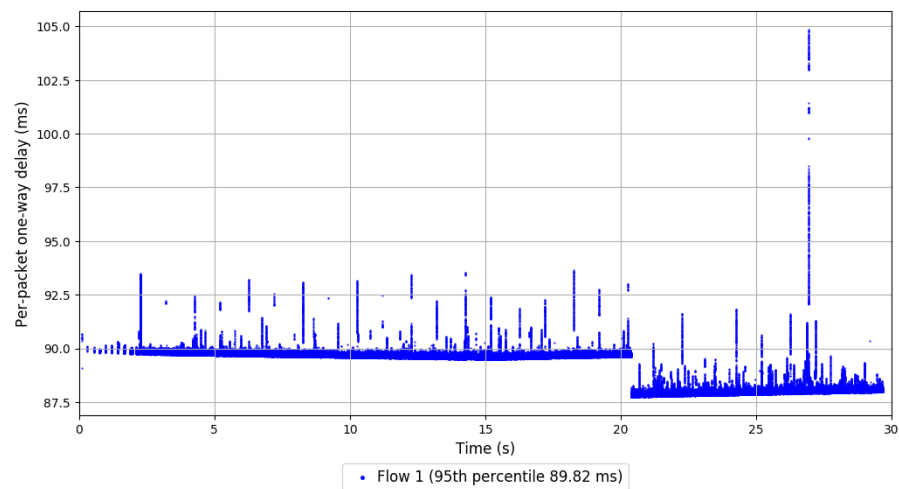
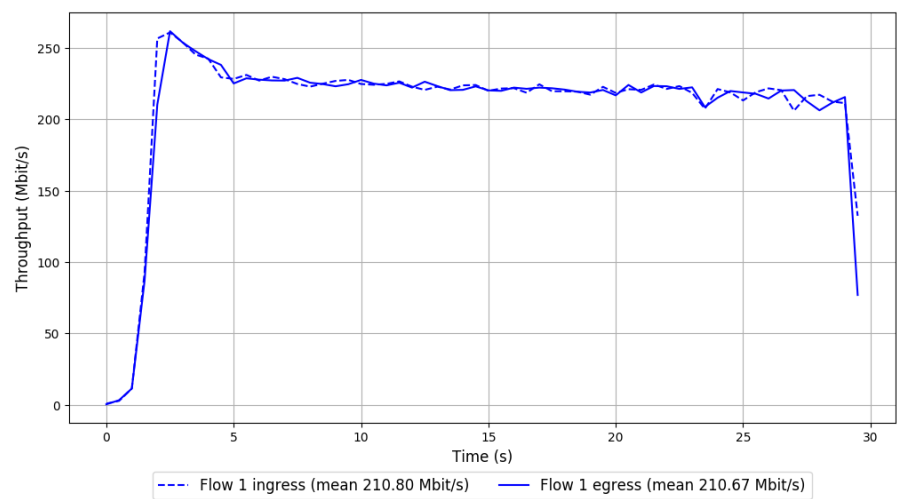


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-02-12 19:38:42
End at: 2018-02-12 19:39:12

# Below is generated by plot.py at 2018-02-13 01:36:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 210.67 Mbit/s
95th percentile per-packet one-way delay: 89.823 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 210.67 Mbit/s
95th percentile per-packet one-way delay: 89.823 ms
Loss rate: 0.80%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-12 19:54:30

End at: 2018-02-12 19:55:00

Below is generated by plot.py at 2018-02-13 01:36:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.48 Mbit/s

95th percentile per-packet one-way delay: 95.025 ms

Loss rate: 0.82%

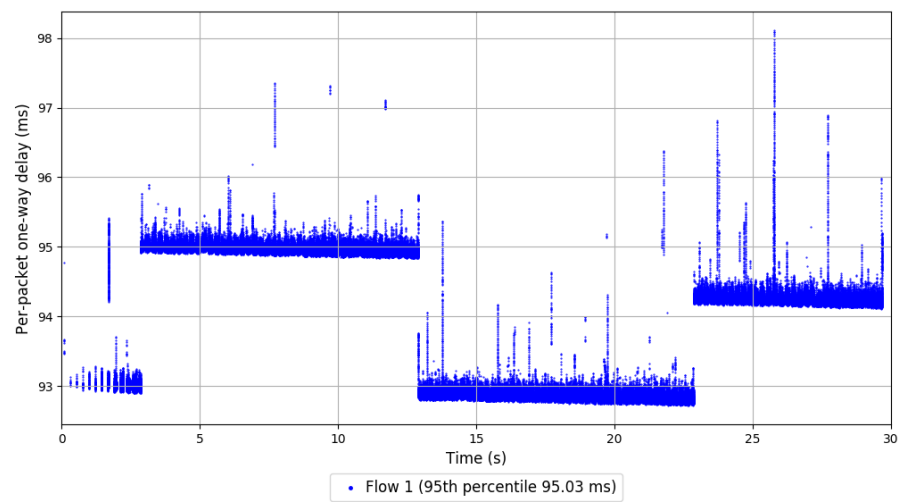
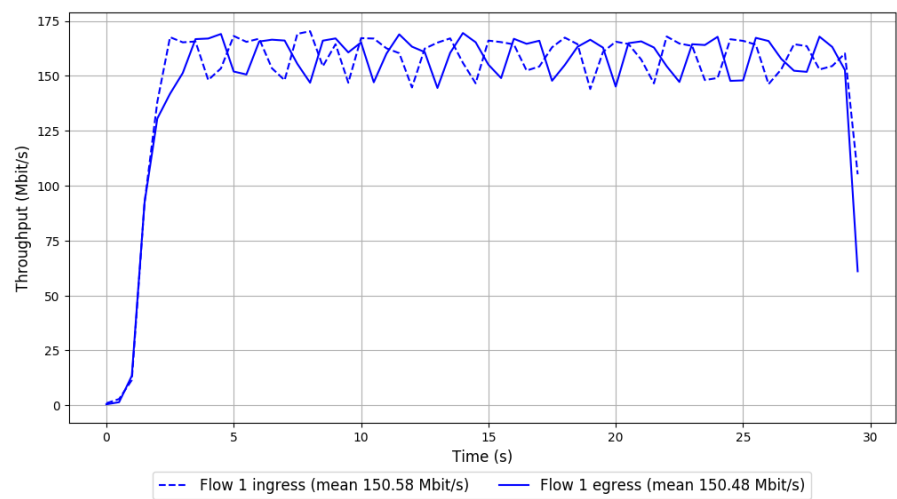
-- Flow 1:

Average throughput: 150.48 Mbit/s

95th percentile per-packet one-way delay: 95.025 ms

Loss rate: 0.82%

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



Run 4: Statistics of Indigo-1-32

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

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

Below is generated by plot.py at 2018-02-13 01:36:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 165.43 Mbit/s

95th percentile per-packet one-way delay: 83.747 ms

Loss rate: 0.74%

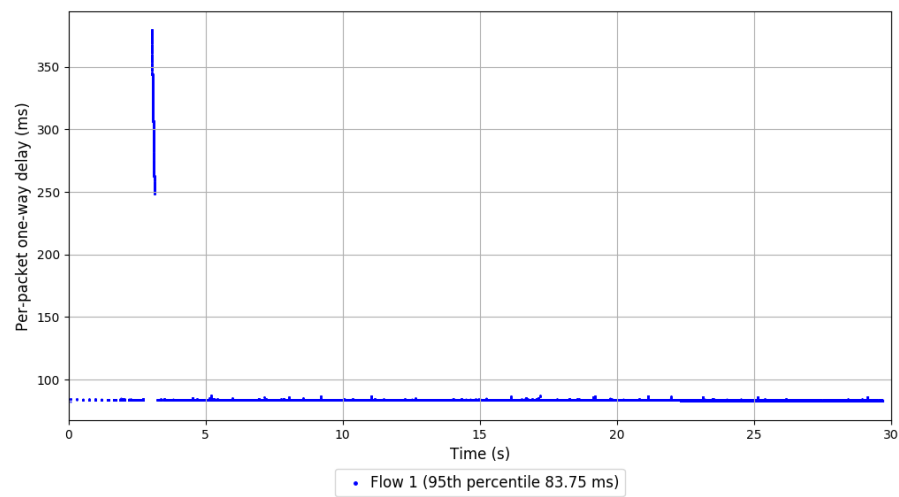
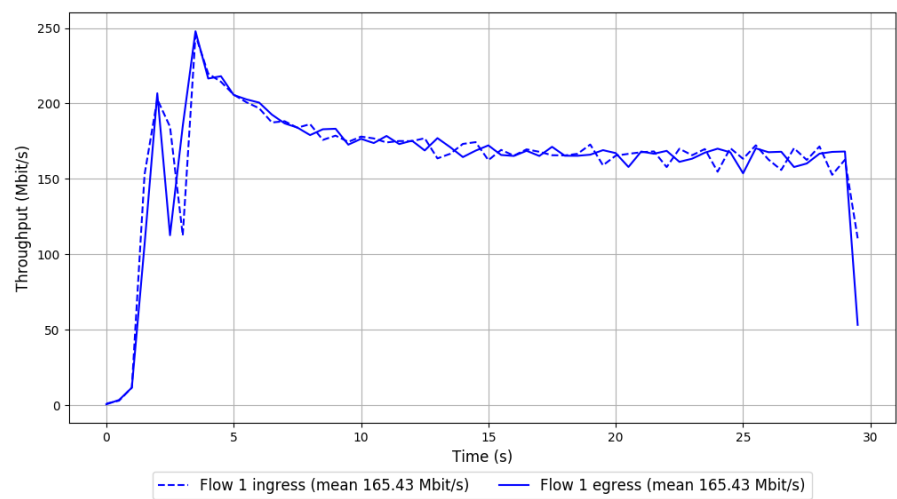
-- Flow 1:

Average throughput: 165.43 Mbit/s

95th percentile per-packet one-way delay: 83.747 ms

Loss rate: 0.74%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-12 20:25:04

End at: 2018-02-12 20:25:34

Below is generated by plot.py at 2018-02-13 01:36:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.07 Mbit/s

95th percentile per-packet one-way delay: 97.847 ms

Loss rate: 0.81%

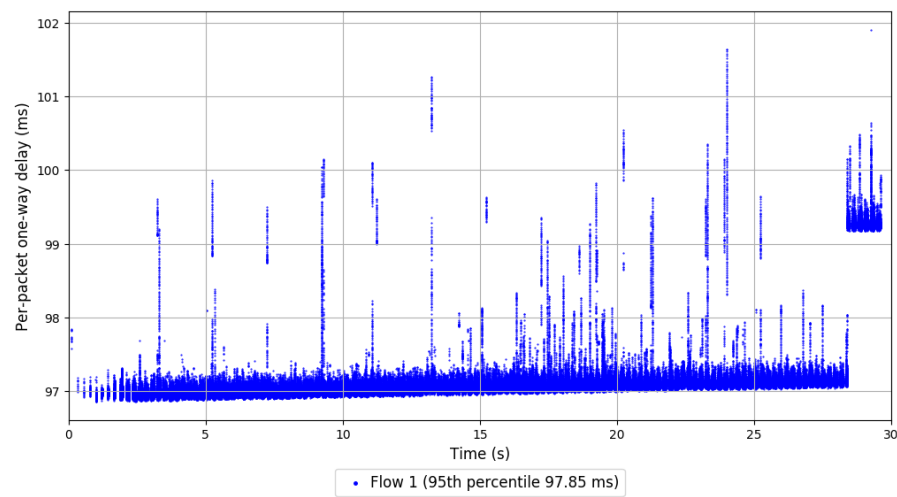
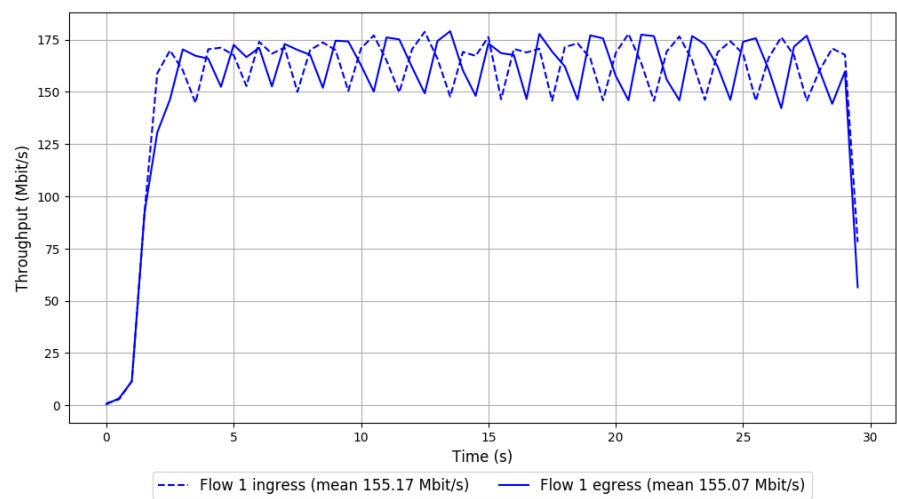
-- Flow 1:

Average throughput: 155.07 Mbit/s

95th percentile per-packet one-way delay: 97.847 ms

Loss rate: 0.81%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-12 20:40:49

End at: 2018-02-12 20:41:19

Below is generated by plot.py at 2018-02-13 01:36:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.99 Mbit/s

95th percentile per-packet one-way delay: 98.412 ms

Loss rate: 0.73%

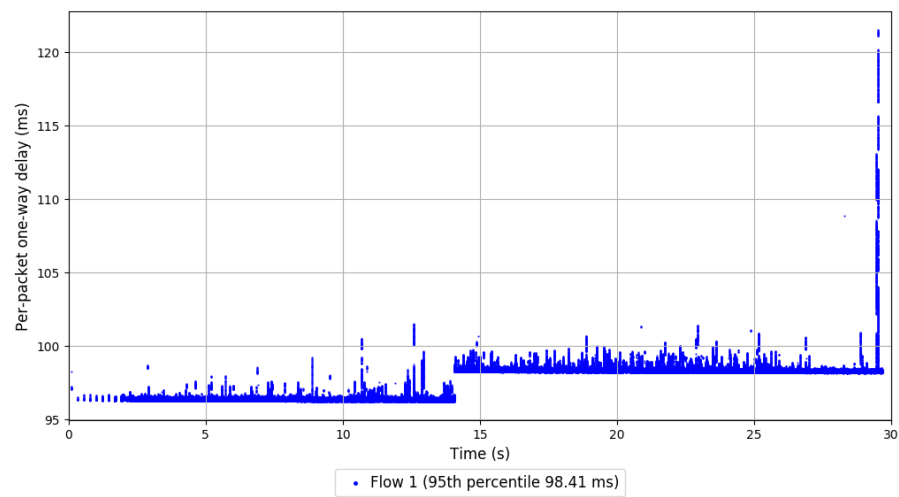
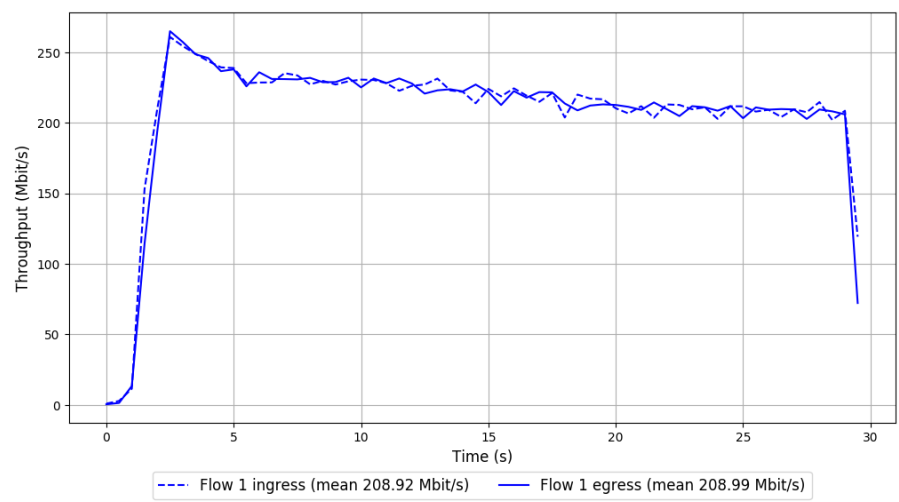
-- Flow 1:

Average throughput: 208.99 Mbit/s

95th percentile per-packet one-way delay: 98.412 ms

Loss rate: 0.73%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-12 20:56:23

End at: 2018-02-12 20:56:53

Below is generated by plot.py at 2018-02-13 01:36:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.80 Mbit/s

95th percentile per-packet one-way delay: 105.553 ms

Loss rate: 0.62%

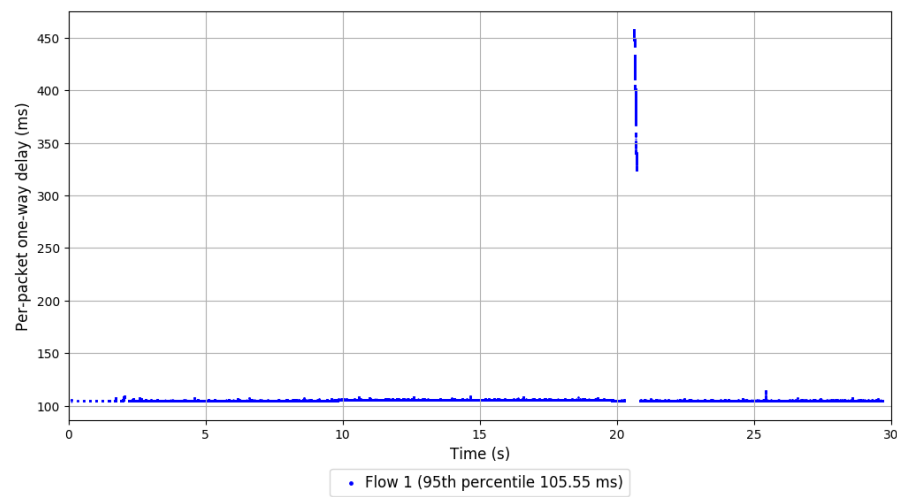
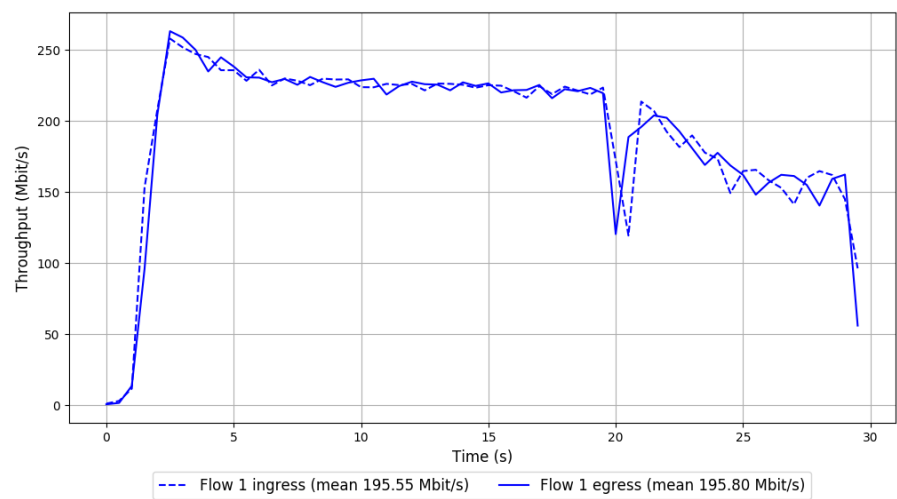
-- Flow 1:

Average throughput: 195.80 Mbit/s

95th percentile per-packet one-way delay: 105.553 ms

Loss rate: 0.62%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-12 21:12:09

End at: 2018-02-12 21:12:39

Below is generated by plot.py at 2018-02-13 01:36:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.89 Mbit/s

95th percentile per-packet one-way delay: 106.733 ms

Loss rate: 0.73%

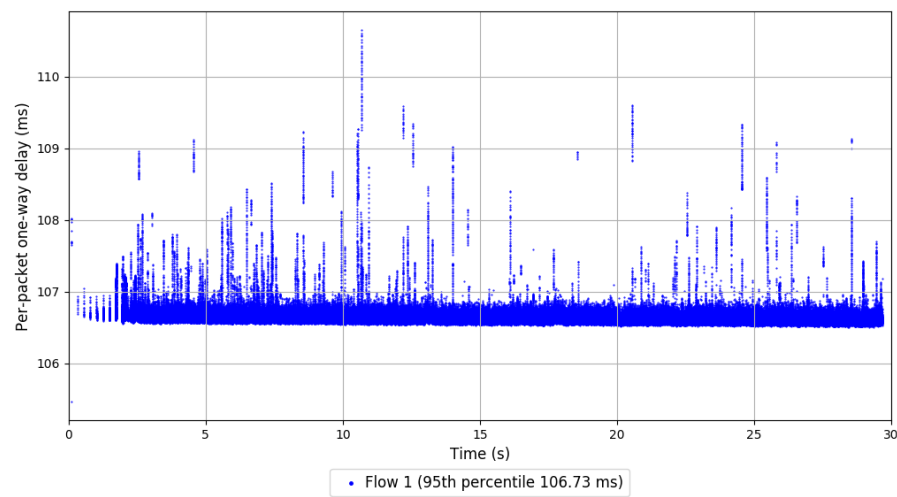
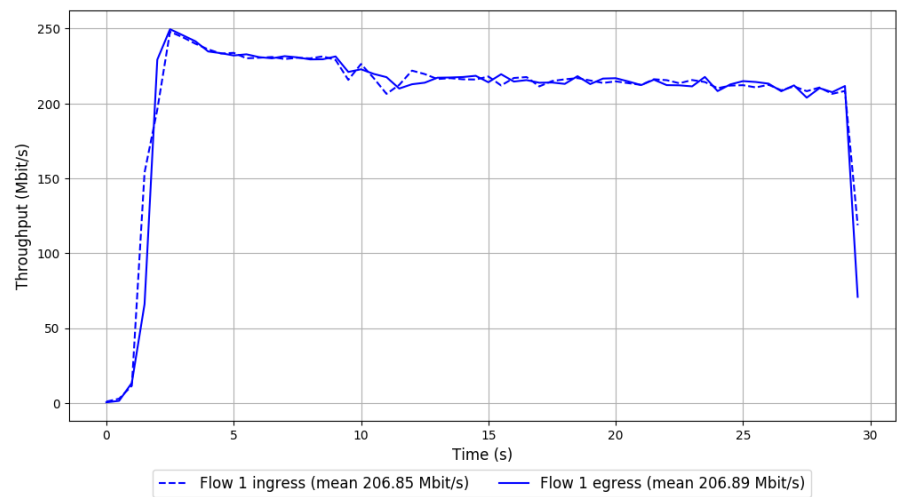
-- Flow 1:

Average throughput: 206.89 Mbit/s

95th percentile per-packet one-way delay: 106.733 ms

Loss rate: 0.73%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-12 21:27:34

End at: 2018-02-12 21:28:04

Below is generated by plot.py at 2018-02-13 01:36:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.92 Mbit/s

95th percentile per-packet one-way delay: 108.696 ms

Loss rate: 0.98%

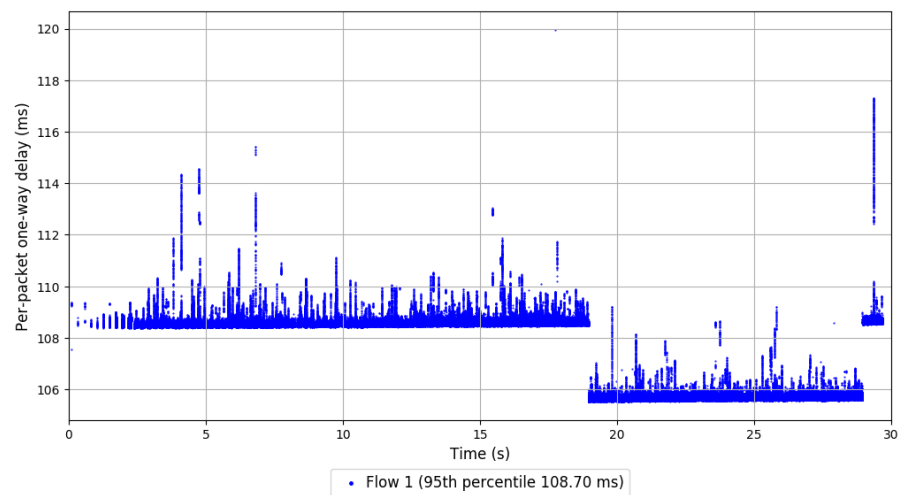
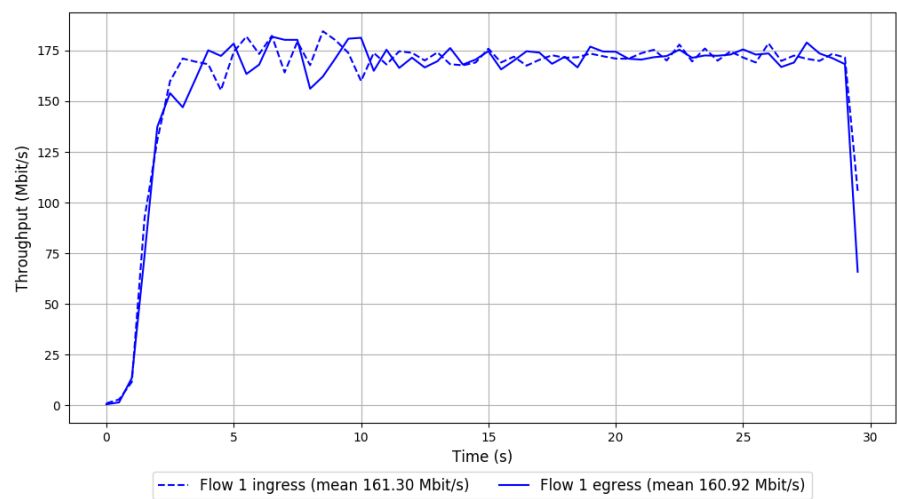
-- Flow 1:

Average throughput: 160.92 Mbit/s

95th percentile per-packet one-way delay: 108.696 ms

Loss rate: 0.98%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-12 21:43:11

End at: 2018-02-12 21:43:41

Below is generated by plot.py at 2018-02-13 01:36:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.51 Mbit/s

95th percentile per-packet one-way delay: 110.489 ms

Loss rate: 0.81%

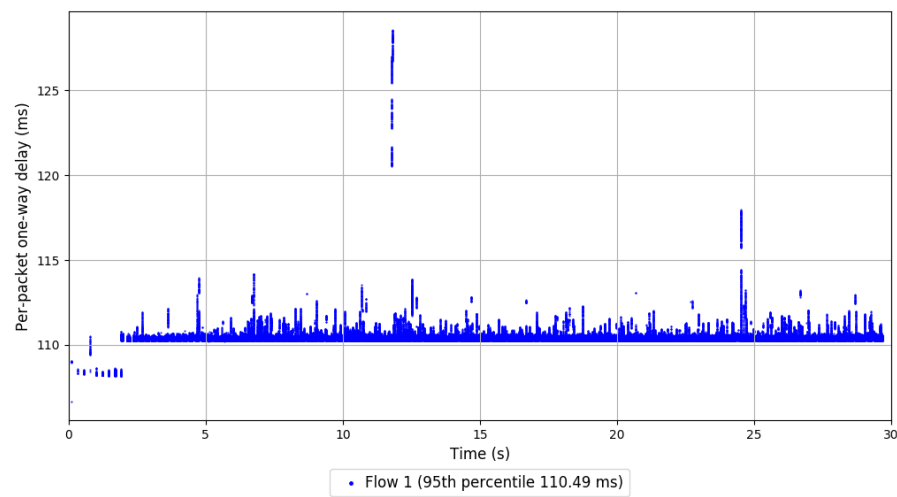
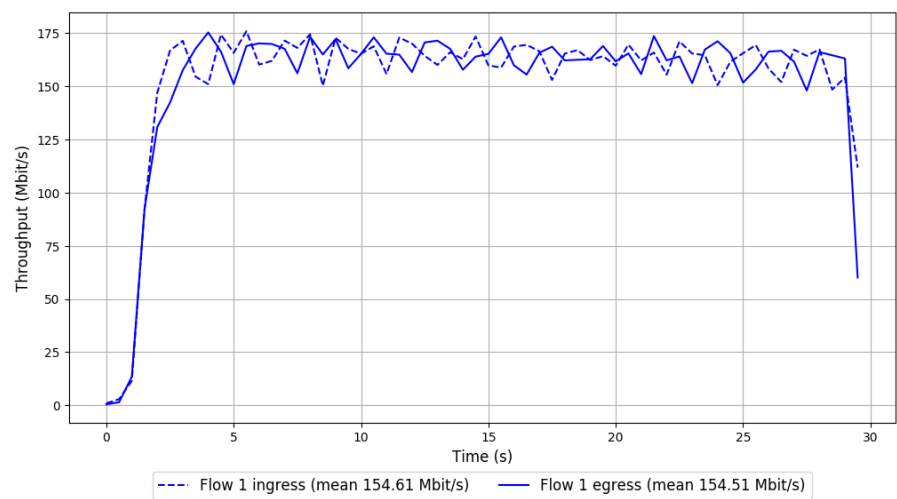
-- Flow 1:

Average throughput: 154.51 Mbit/s

95th percentile per-packet one-way delay: 110.489 ms

Loss rate: 0.81%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-02-12 19:20:52

End at: 2018-02-12 19:21:22

Below is generated by plot.py at 2018-02-13 01:36:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 285.04 Mbit/s

95th percentile per-packet one-way delay: 102.783 ms

Loss rate: 0.68%

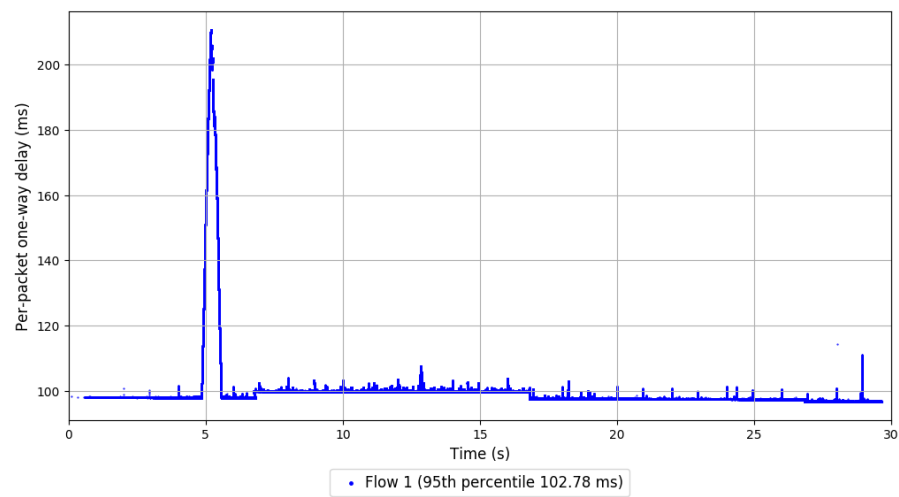
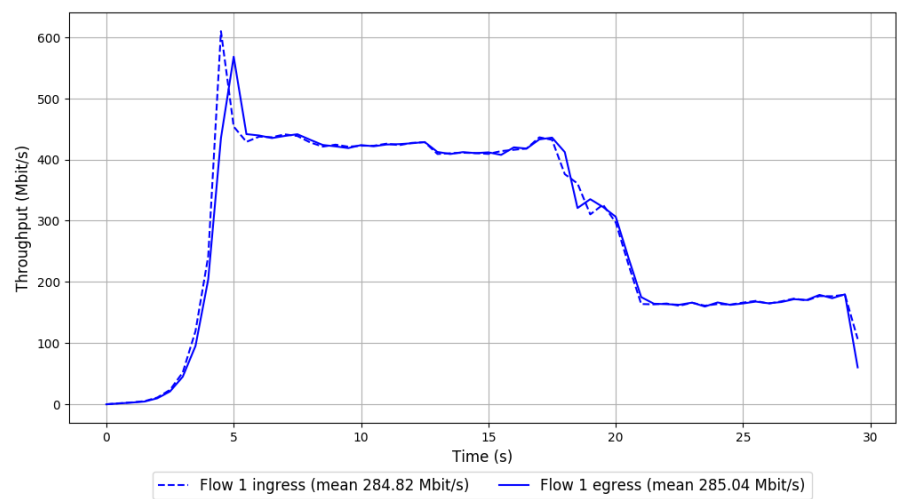
-- Flow 1:

Average throughput: 285.04 Mbit/s

95th percentile per-packet one-way delay: 102.783 ms

Loss rate: 0.68%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-12 19:36:10

End at: 2018-02-12 19:36:40

Below is generated by plot.py at 2018-02-13 01:36:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 411.75 Mbit/s

95th percentile per-packet one-way delay: 114.607 ms

Loss rate: 1.33%

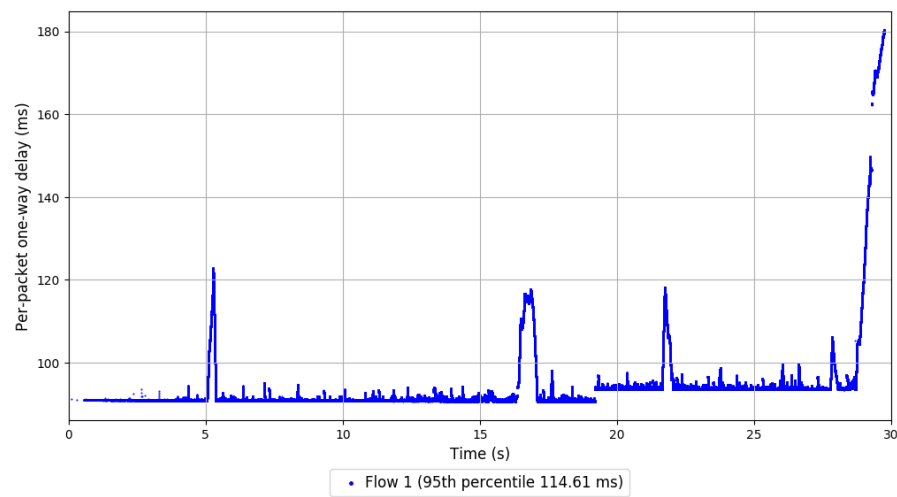
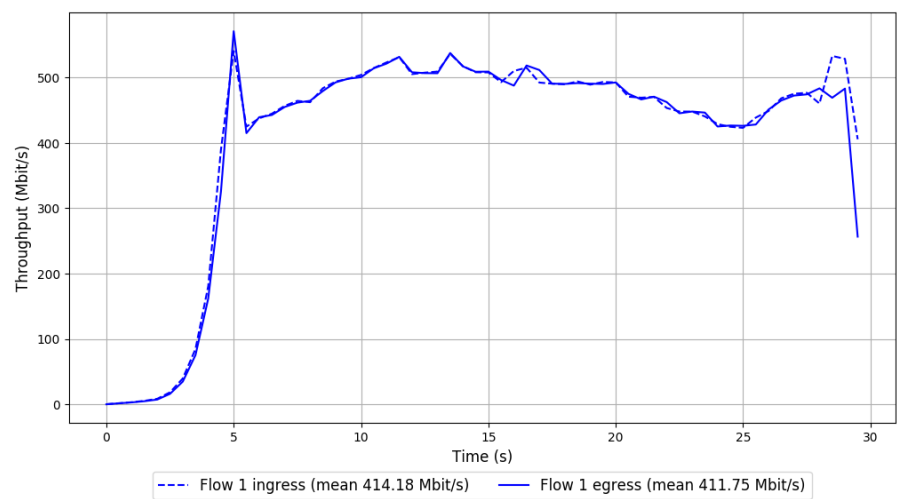
-- Flow 1:

Average throughput: 411.75 Mbit/s

95th percentile per-packet one-way delay: 114.607 ms

Loss rate: 1.33%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-12 19:52:05

End at: 2018-02-12 19:52:35

Below is generated by plot.py at 2018-02-13 01:36:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 303.49 Mbit/s

95th percentile per-packet one-way delay: 95.675 ms

Loss rate: 1.14%

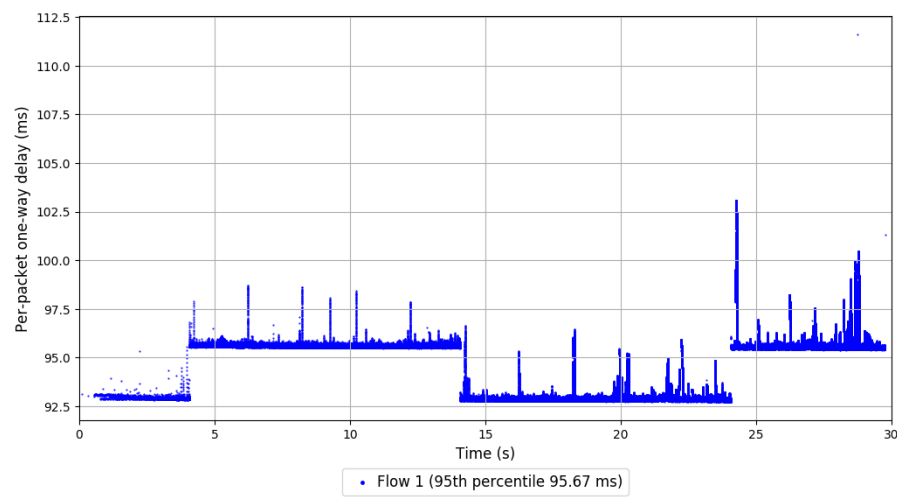
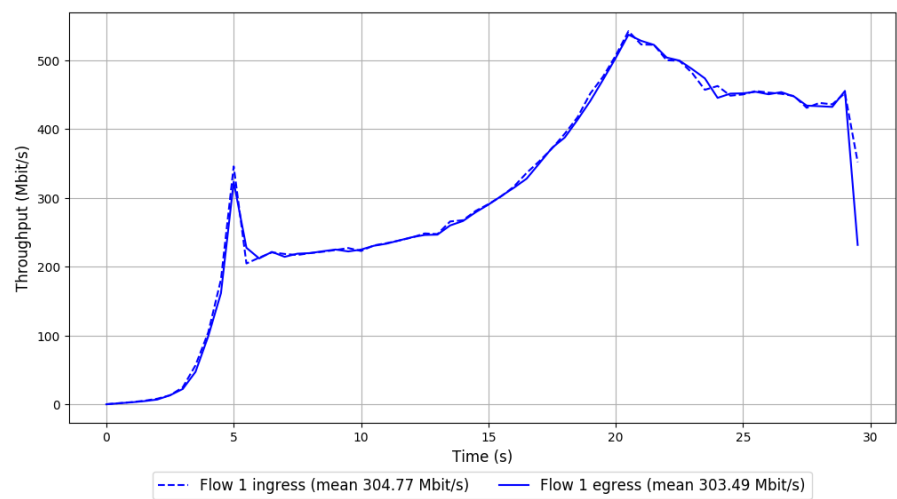
-- Flow 1:

Average throughput: 303.49 Mbit/s

95th percentile per-packet one-way delay: 95.675 ms

Loss rate: 1.14%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-12 20:07:14

End at: 2018-02-12 20:07:44

Below is generated by plot.py at 2018-02-13 01:36:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 332.87 Mbit/s

95th percentile per-packet one-way delay: 93.578 ms

Loss rate: 0.60%

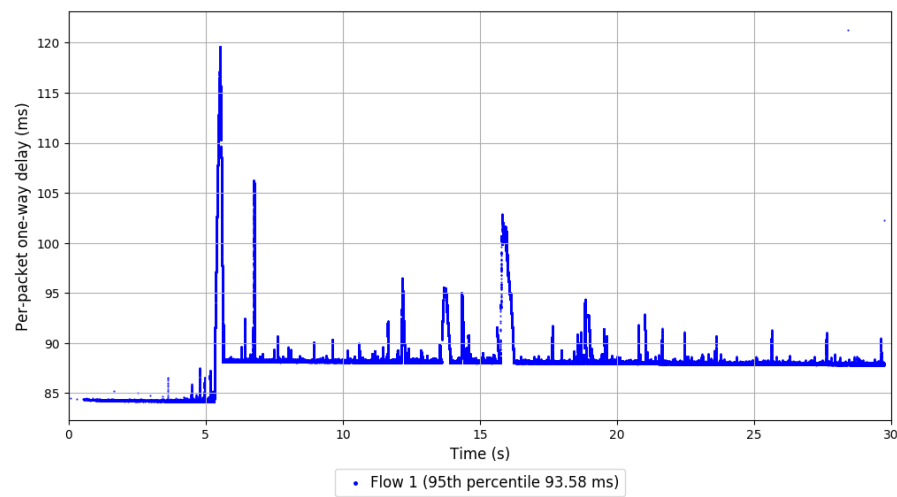
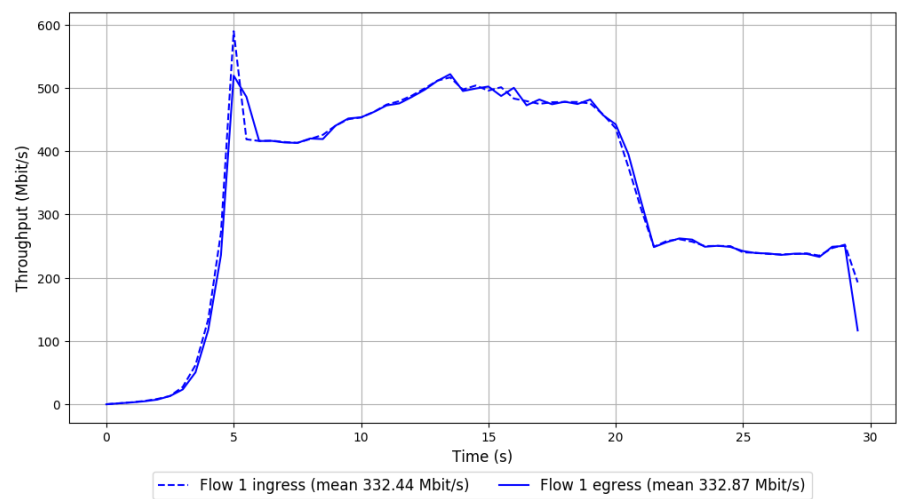
-- Flow 1:

Average throughput: 332.87 Mbit/s

95th percentile per-packet one-way delay: 93.578 ms

Loss rate: 0.60%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-12 20:22:35

End at: 2018-02-12 20:23:05

Below is generated by plot.py at 2018-02-13 01:36:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 376.54 Mbit/s

95th percentile per-packet one-way delay: 98.012 ms

Loss rate: 0.90%

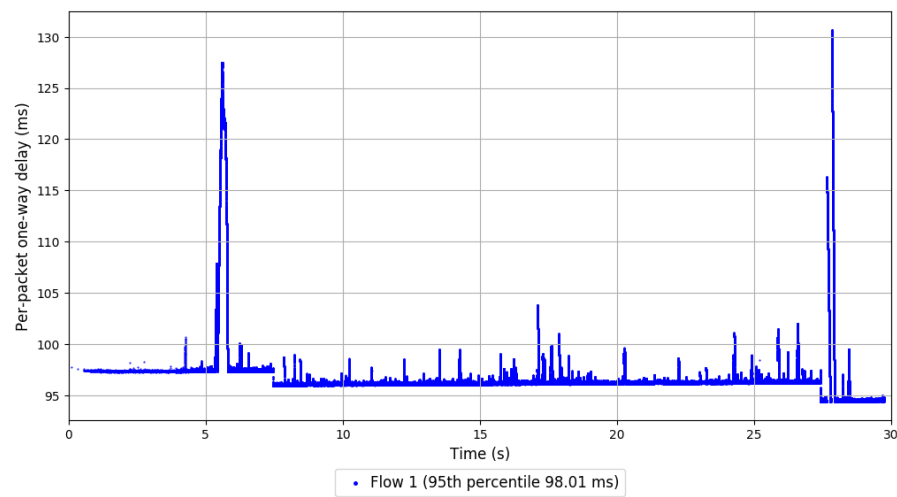
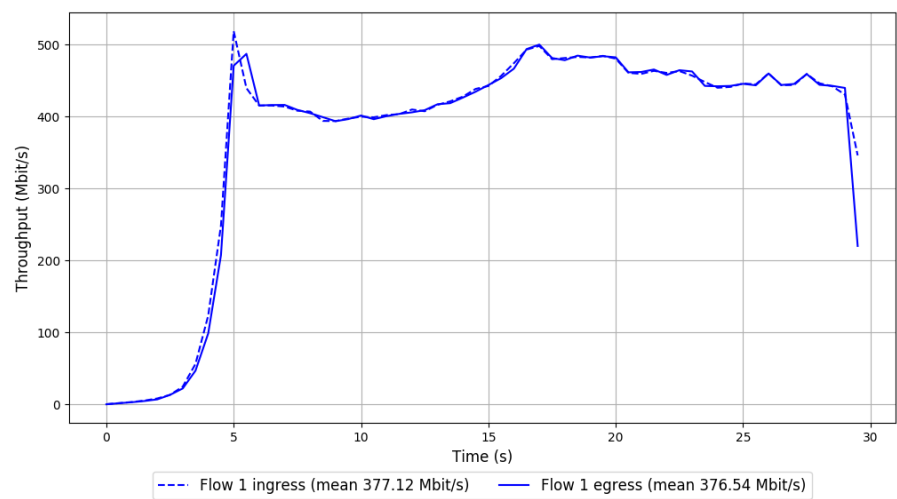
-- Flow 1:

Average throughput: 376.54 Mbit/s

95th percentile per-packet one-way delay: 98.012 ms

Loss rate: 0.90%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-12 20:38:20

End at: 2018-02-12 20:38:50

Below is generated by plot.py at 2018-02-13 01:36:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 366.25 Mbit/s

95th percentile per-packet one-way delay: 118.712 ms

Loss rate: 1.06%

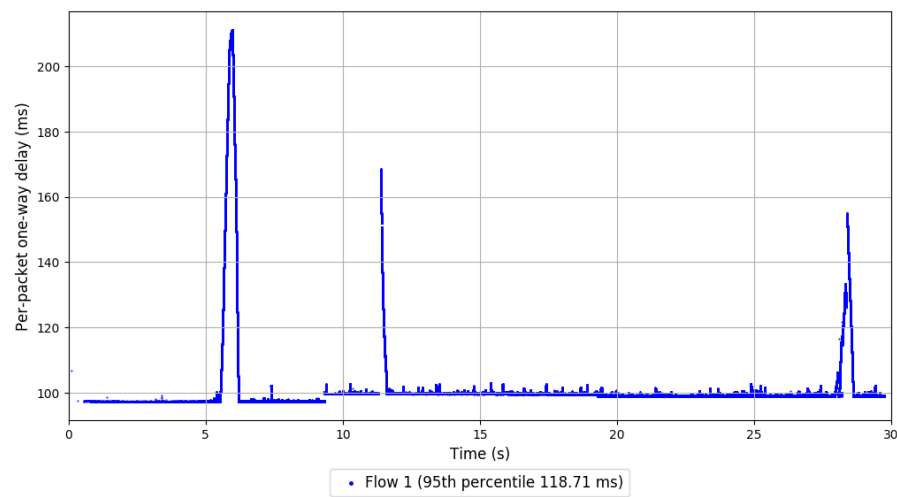
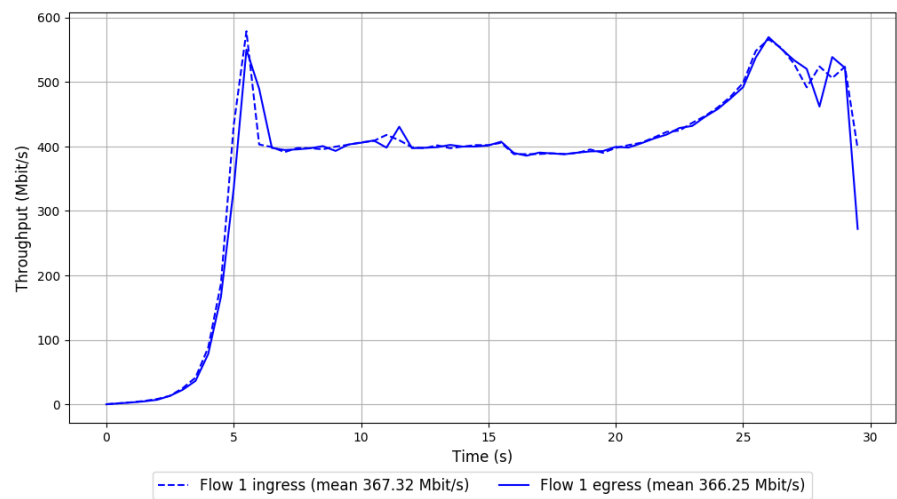
-- Flow 1:

Average throughput: 366.25 Mbit/s

95th percentile per-packet one-way delay: 118.712 ms

Loss rate: 1.06%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-12 20:53:54

End at: 2018-02-12 20:54:24

Below is generated by plot.py at 2018-02-13 01:36:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 374.44 Mbit/s

95th percentile per-packet one-way delay: 105.426 ms

Loss rate: 0.80%

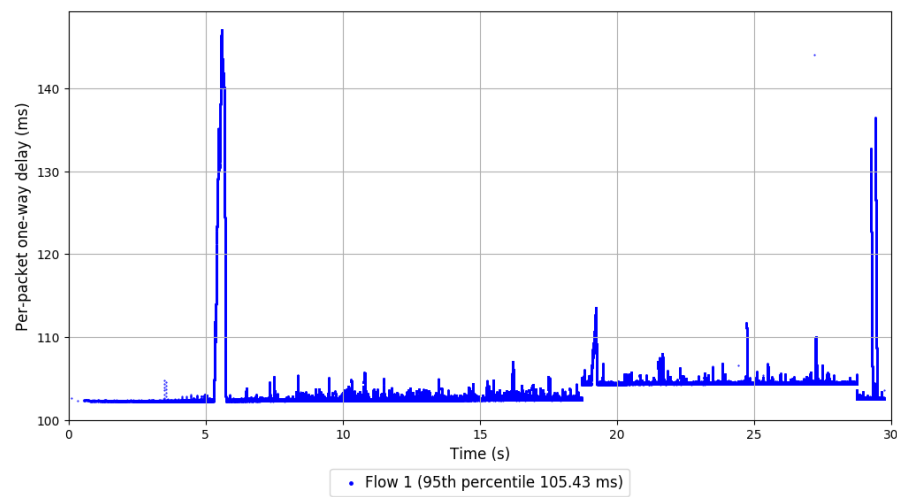
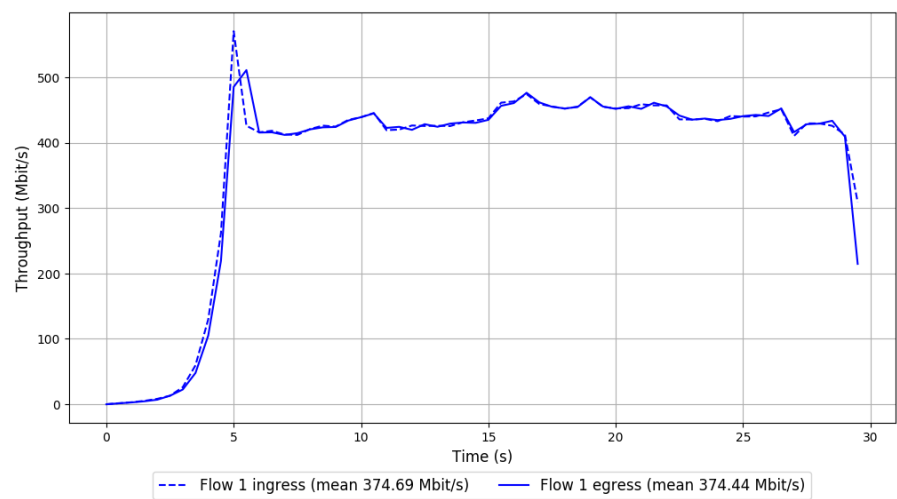
-- Flow 1:

Average throughput: 374.44 Mbit/s

95th percentile per-packet one-way delay: 105.426 ms

Loss rate: 0.80%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-12 21:09:40

End at: 2018-02-12 21:10:10

Below is generated by plot.py at 2018-02-13 01:37:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 377.12 Mbit/s

95th percentile per-packet one-way delay: 110.845 ms

Loss rate: 1.18%

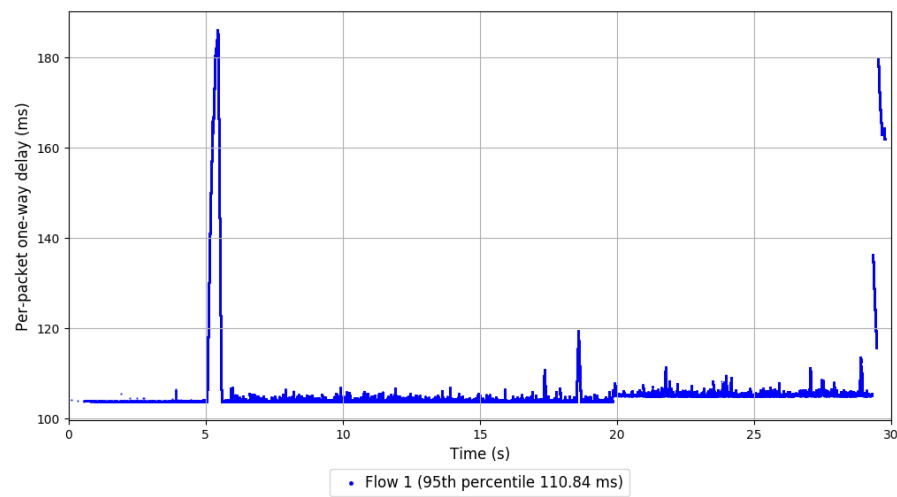
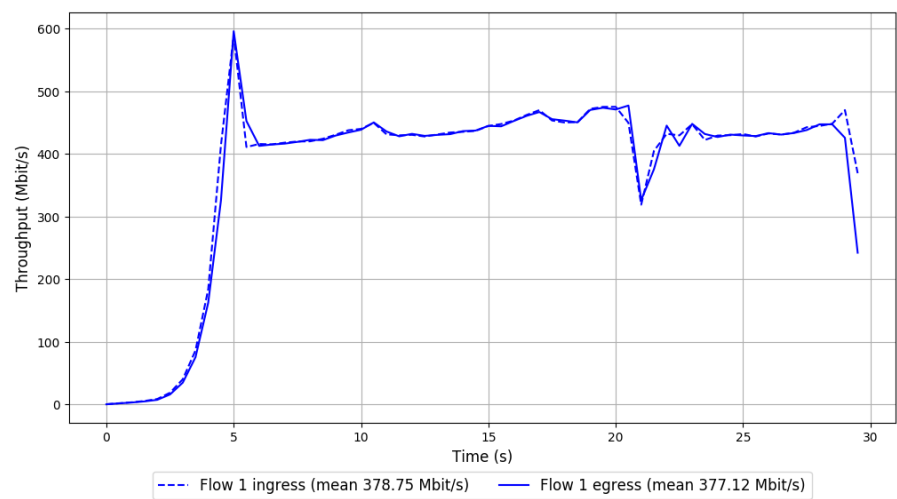
-- Flow 1:

Average throughput: 377.12 Mbit/s

95th percentile per-packet one-way delay: 110.845 ms

Loss rate: 1.18%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-12 21:25:04

End at: 2018-02-12 21:25:34

Below is generated by plot.py at 2018-02-13 01:38:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 375.83 Mbit/s

95th percentile per-packet one-way delay: 114.864 ms

Loss rate: 0.99%

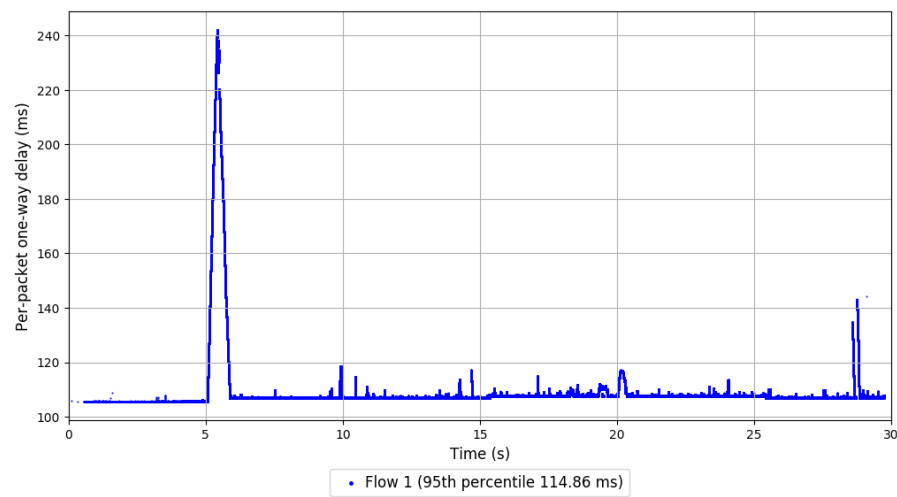
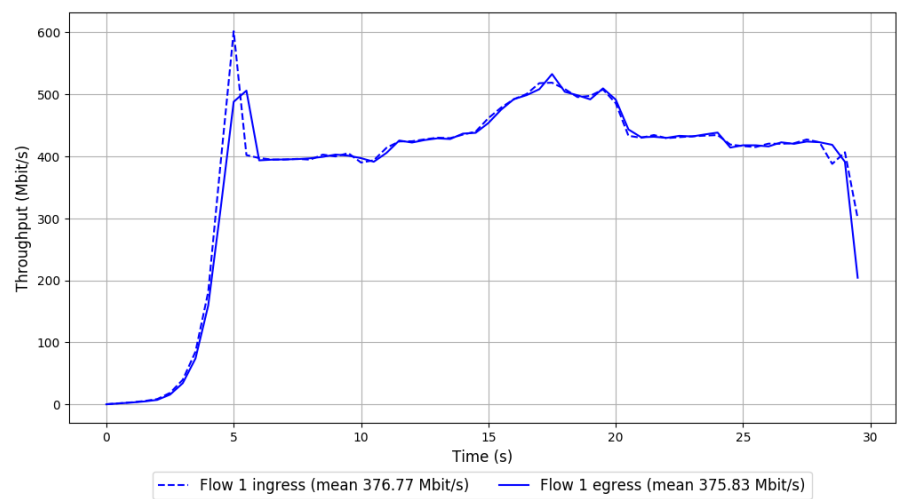
-- Flow 1:

Average throughput: 375.83 Mbit/s

95th percentile per-packet one-way delay: 114.864 ms

Loss rate: 0.99%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-12 21:40:41

End at: 2018-02-12 21:41:11

Below is generated by plot.py at 2018-02-13 01:38:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 387.47 Mbit/s

95th percentile per-packet one-way delay: 133.896 ms

Loss rate: 1.25%

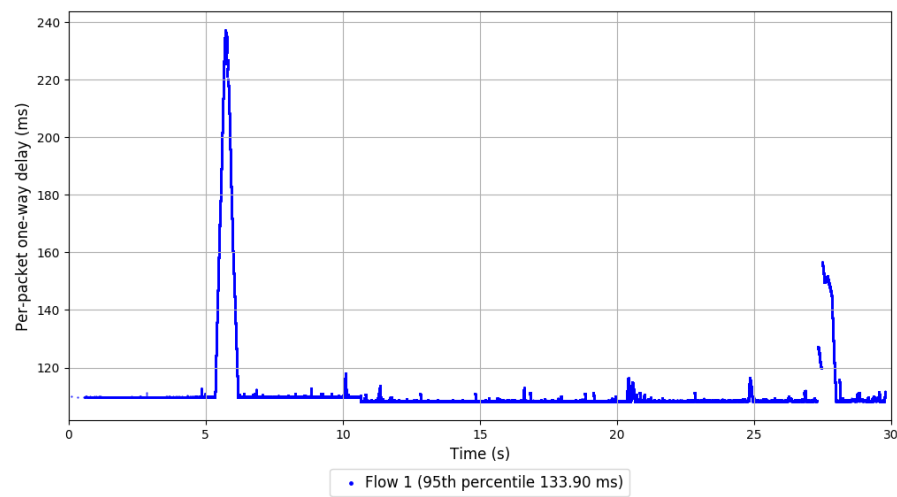
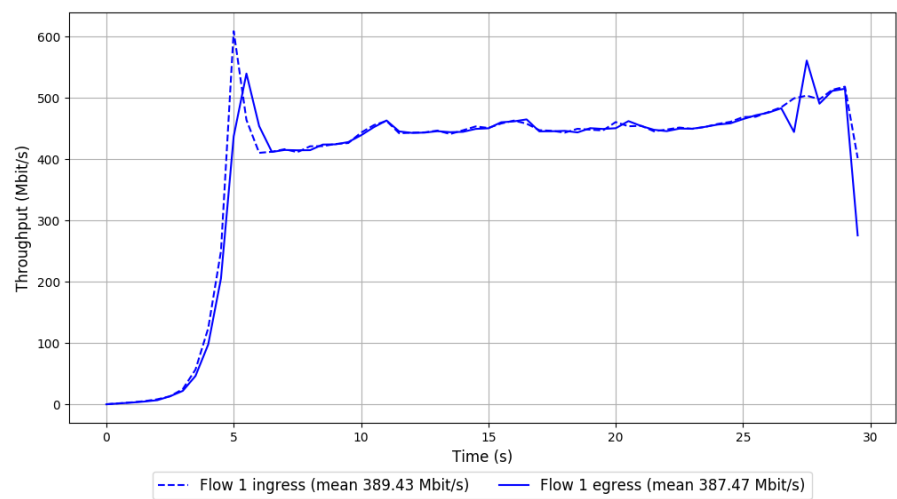
-- Flow 1:

Average throughput: 387.47 Mbit/s

95th percentile per-packet one-way delay: 133.896 ms

Loss rate: 1.25%

Run 10: Report of Vivace-latency — Data Link

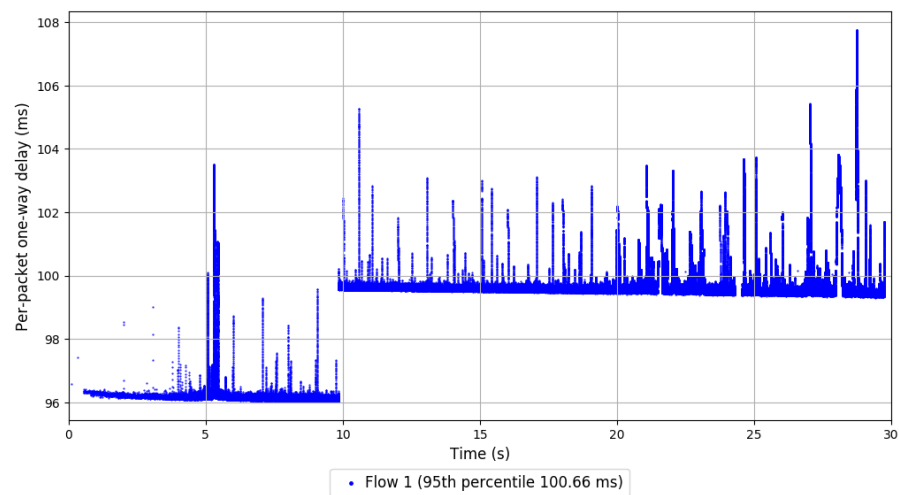
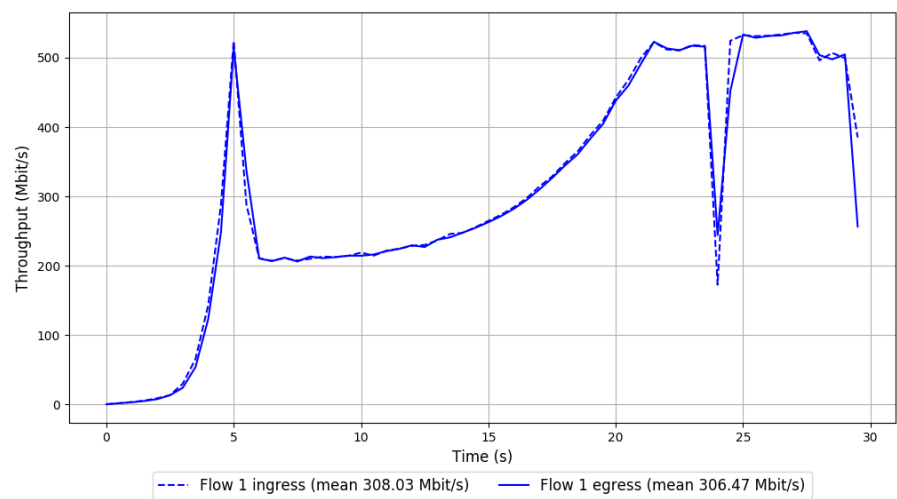


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-12 19:30:29
End at: 2018-02-12 19:30:59

# Below is generated by plot.py at 2018-02-13 01:38:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 306.47 Mbit/s
95th percentile per-packet one-way delay: 100.659 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 306.47 Mbit/s
95th percentile per-packet one-way delay: 100.659 ms
Loss rate: 1.24%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-12 19:46:19

End at: 2018-02-12 19:46:49

Below is generated by plot.py at 2018-02-13 01:38:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 318.38 Mbit/s

95th percentile per-packet one-way delay: 150.567 ms

Loss rate: 2.07%

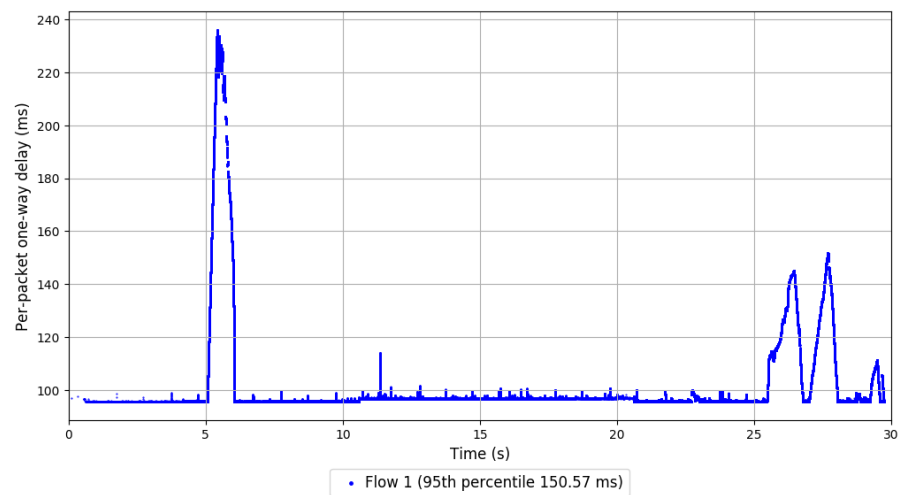
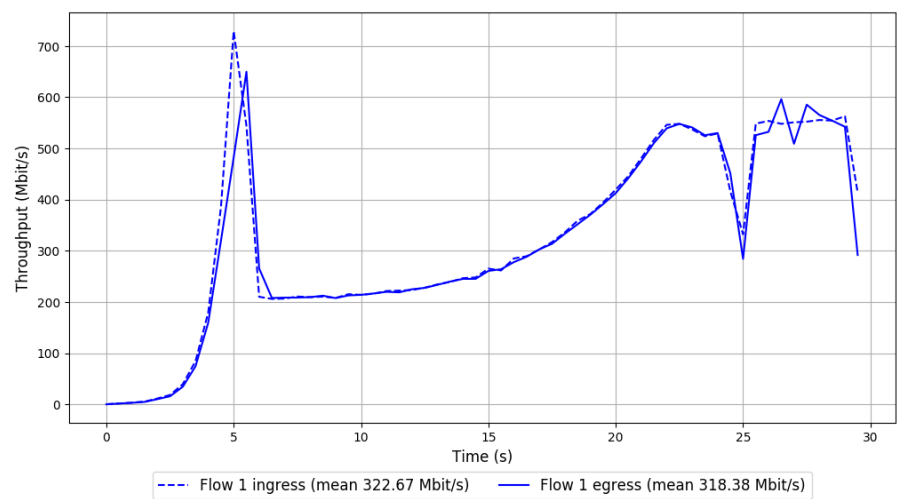
-- Flow 1:

Average throughput: 318.38 Mbit/s

95th percentile per-packet one-way delay: 150.567 ms

Loss rate: 2.07%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-12 20:01:45

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

Below is generated by plot.py at 2018-02-13 01:38:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.60 Mbit/s

95th percentile per-packet one-way delay: 141.947 ms

Loss rate: 1.28%

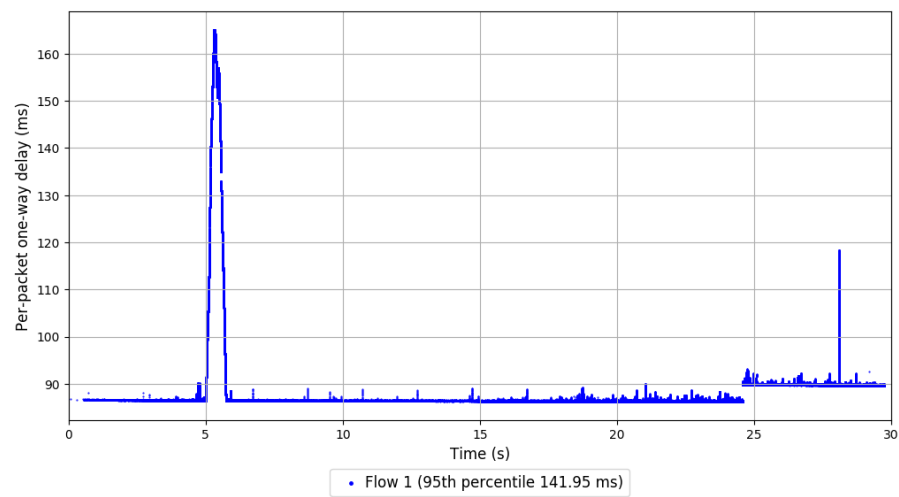
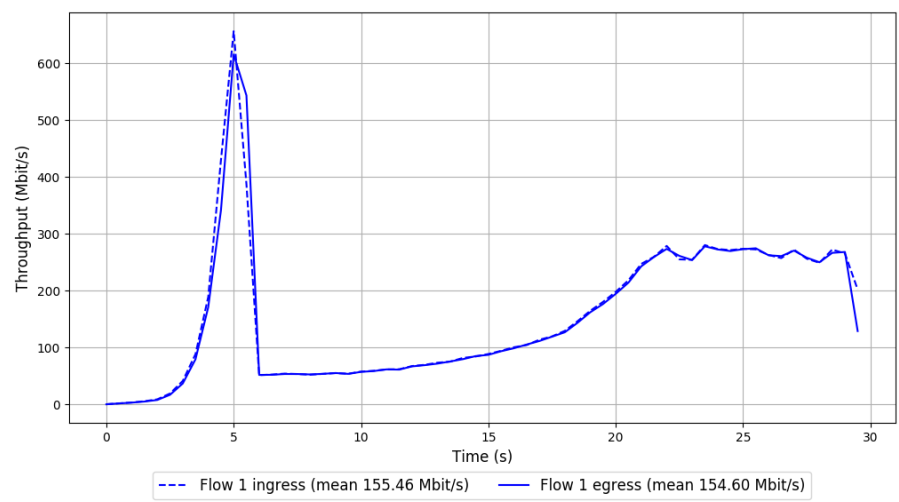
-- Flow 1:

Average throughput: 154.60 Mbit/s

95th percentile per-packet one-way delay: 141.947 ms

Loss rate: 1.28%

Run 3: Report of Vivace-loss — Data Link

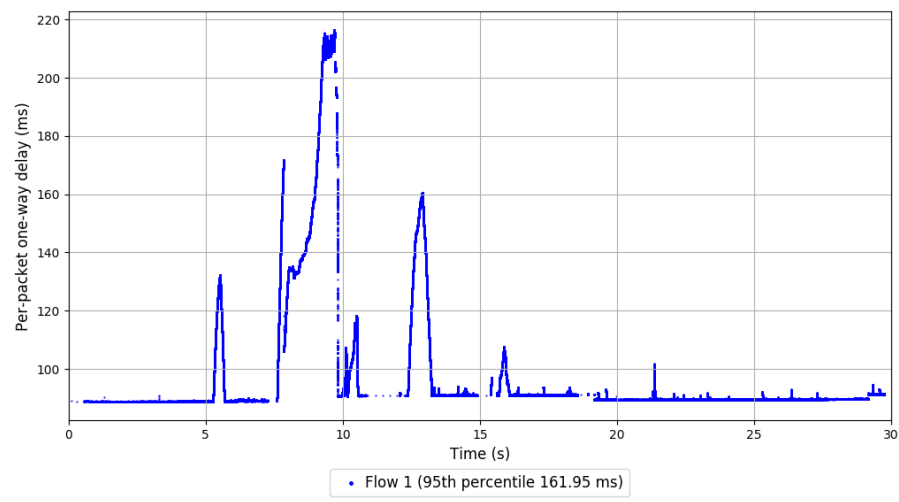
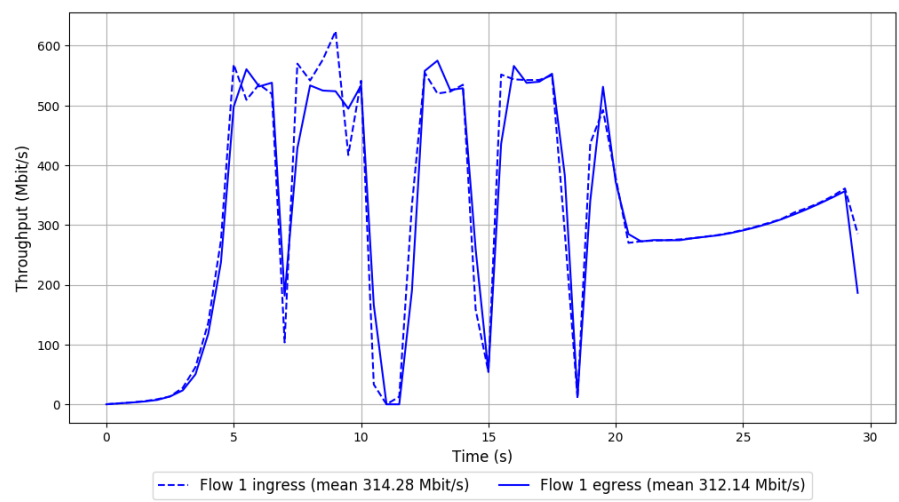


```
Run 4: Statistics of Vivace-loss

Start at: 2018-02-12 20:17:00
End at: 2018-02-12 20:17:30

# Below is generated by plot.py at 2018-02-13 01:41:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 312.14 Mbit/s
95th percentile per-packet one-way delay: 161.950 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 312.14 Mbit/s
95th percentile per-packet one-way delay: 161.950 ms
Loss rate: 1.42%
```

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-12 20:32:38

End at: 2018-02-12 20:33:08

Below is generated by plot.py at 2018-02-13 01:41:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 273.86 Mbit/s

95th percentile per-packet one-way delay: 203.735 ms

Loss rate: 1.30%

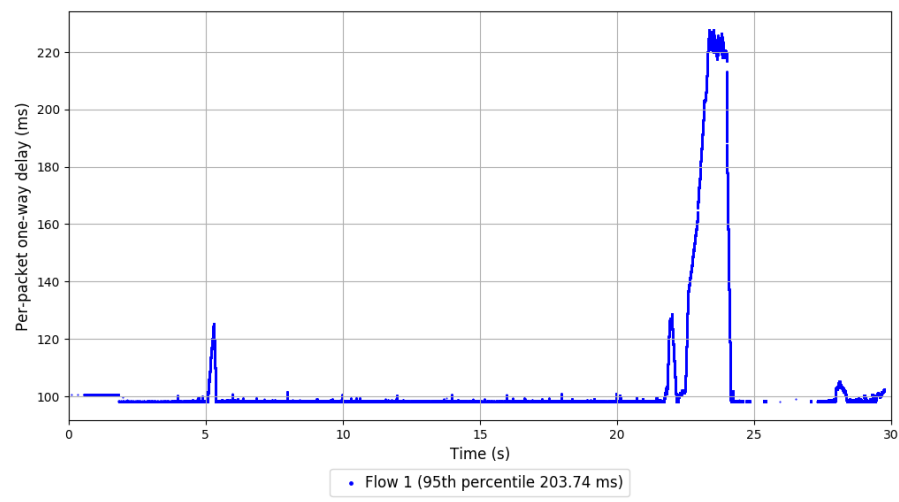
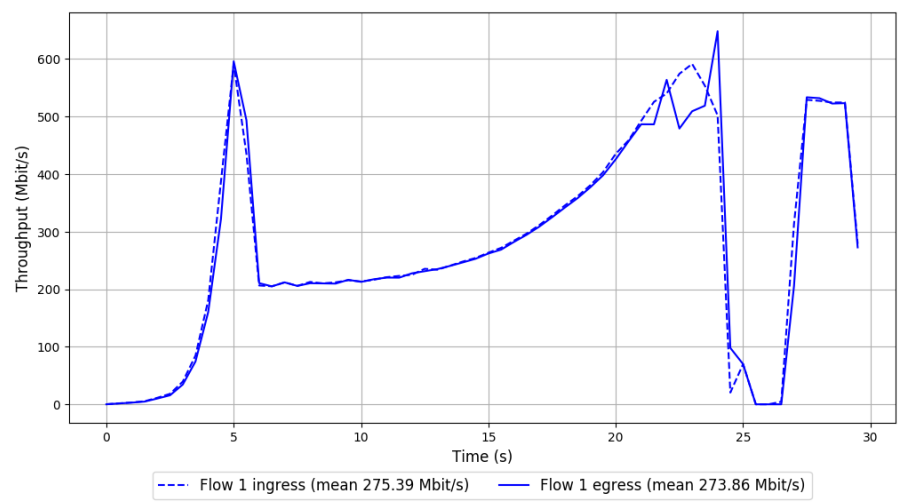
-- Flow 1:

Average throughput: 273.86 Mbit/s

95th percentile per-packet one-way delay: 203.735 ms

Loss rate: 1.30%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-12 20:48:10

End at: 2018-02-12 20:48:40

Below is generated by plot.py at 2018-02-13 01:43:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 347.03 Mbit/s

95th percentile per-packet one-way delay: 218.951 ms

Loss rate: 3.97%

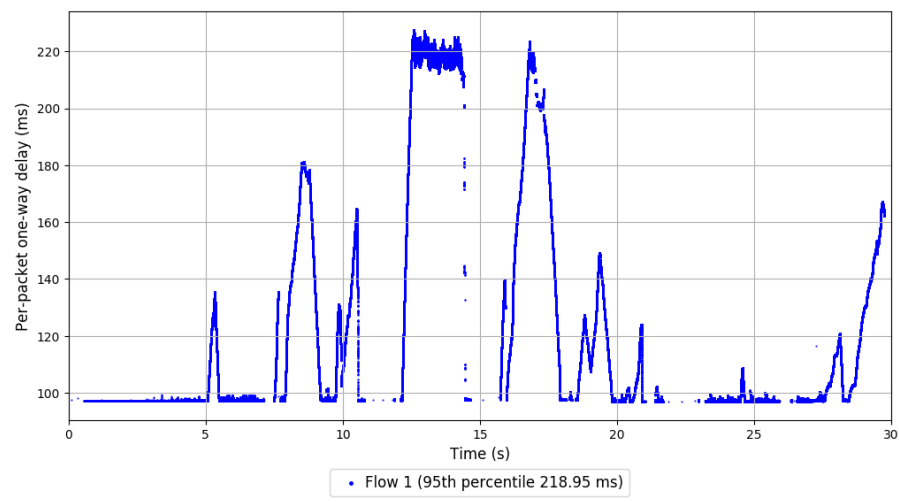
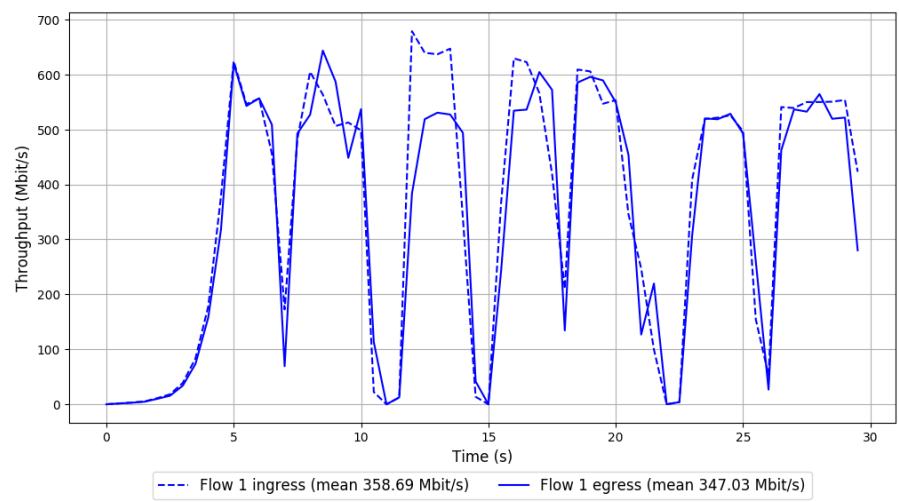
-- Flow 1:

Average throughput: 347.03 Mbit/s

95th percentile per-packet one-way delay: 218.951 ms

Loss rate: 3.97%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-12 21:04:01

End at: 2018-02-12 21:04:31

Below is generated by plot.py at 2018-02-13 01:44:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 398.23 Mbit/s

95th percentile per-packet one-way delay: 211.935 ms

Loss rate: 1.74%

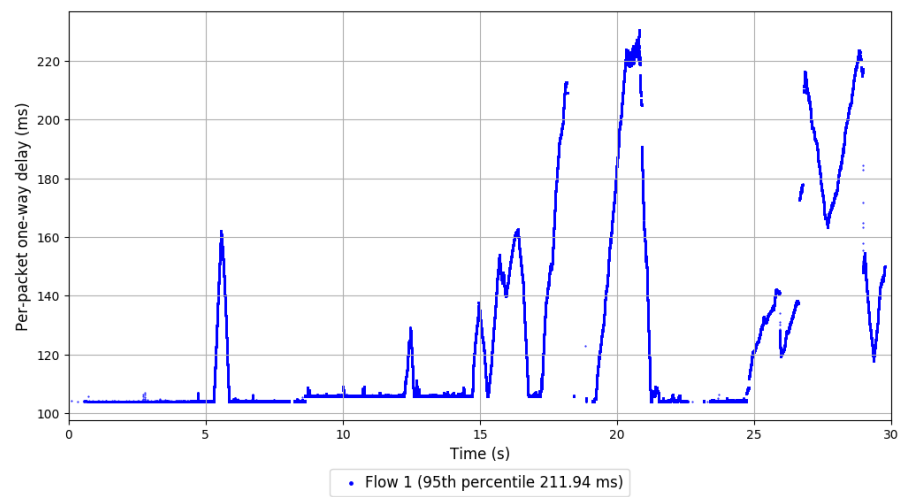
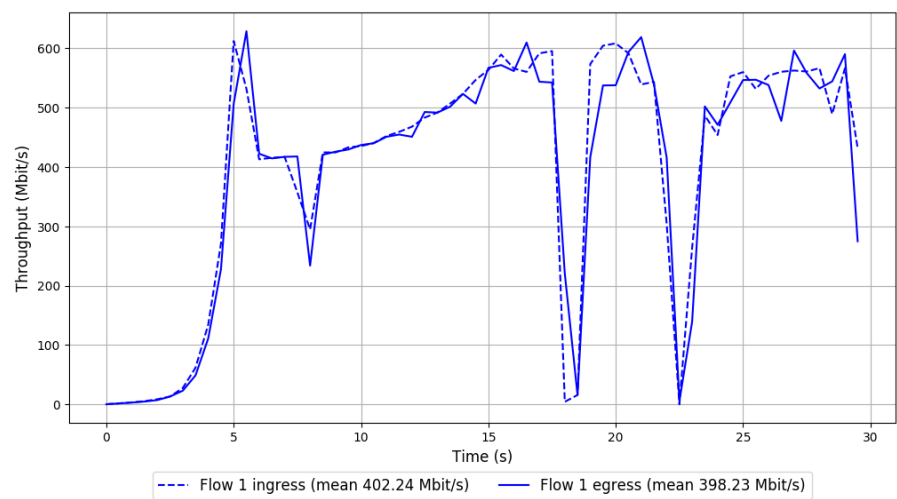
-- Flow 1:

Average throughput: 398.23 Mbit/s

95th percentile per-packet one-way delay: 211.935 ms

Loss rate: 1.74%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-12 21:19:34

End at: 2018-02-12 21:20:04

Below is generated by plot.py at 2018-02-13 01:44:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.45 Mbit/s

95th percentile per-packet one-way delay: 144.088 ms

Loss rate: 1.59%

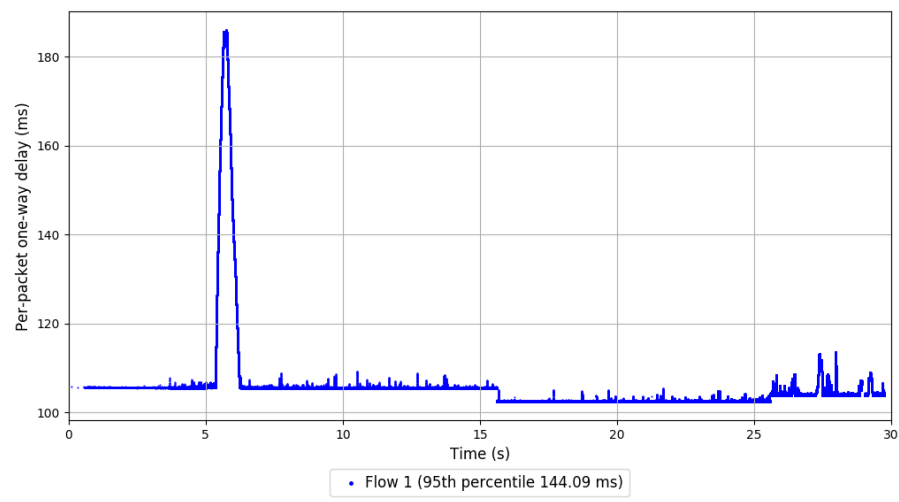
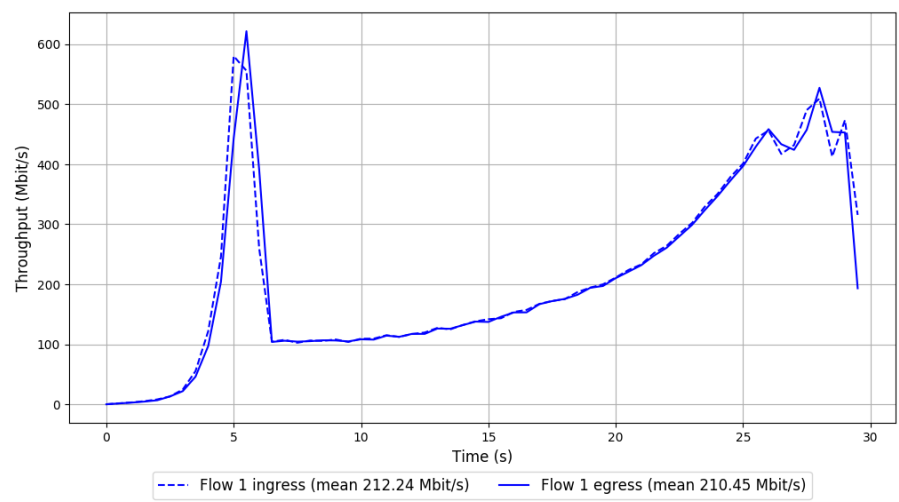
-- Flow 1:

Average throughput: 210.45 Mbit/s

95th percentile per-packet one-way delay: 144.088 ms

Loss rate: 1.59%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-12 21:34:53

End at: 2018-02-12 21:35:23

Below is generated by plot.py at 2018-02-13 01:44:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 370.65 Mbit/s

95th percentile per-packet one-way delay: 225.679 ms

Loss rate: 2.04%

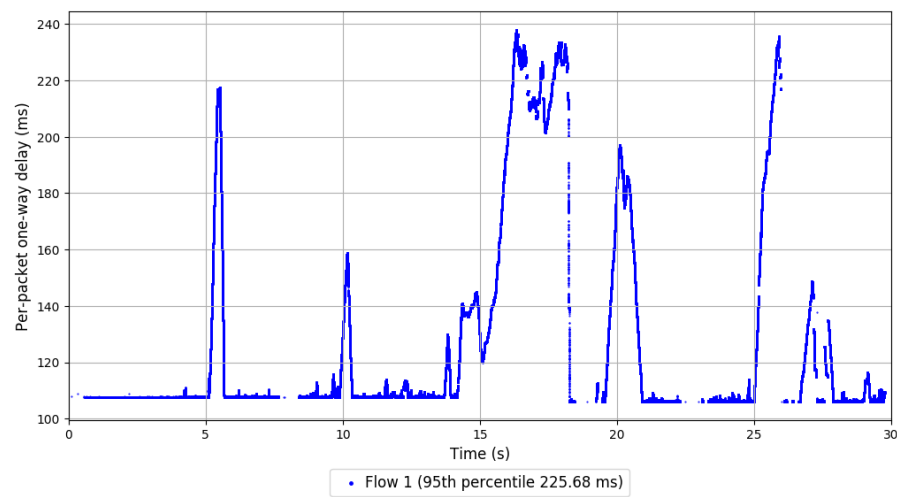
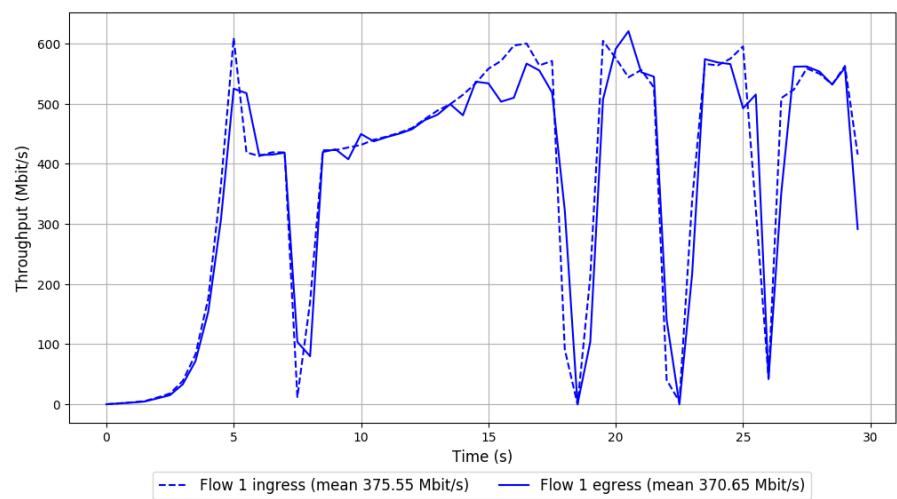
-- Flow 1:

Average throughput: 370.65 Mbit/s

95th percentile per-packet one-way delay: 225.679 ms

Loss rate: 2.04%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-12 21:50:27

End at: 2018-02-12 21:50:58

Below is generated by plot.py at 2018-02-13 01:44:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.95 Mbit/s

95th percentile per-packet one-way delay: 145.720 ms

Loss rate: 0.59%

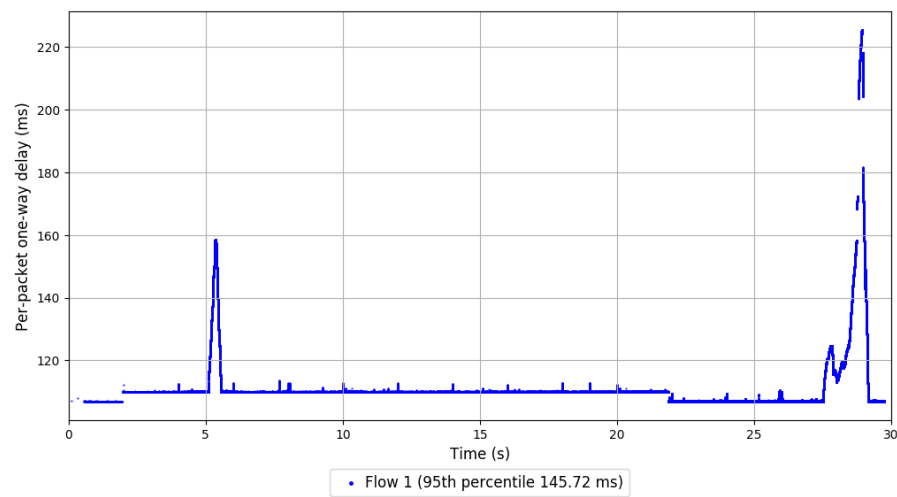
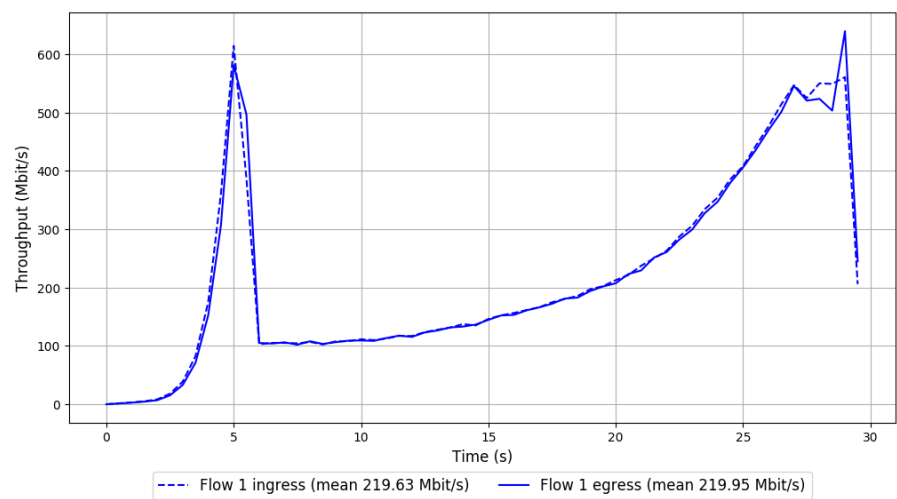
-- Flow 1:

Average throughput: 219.95 Mbit/s

95th percentile per-packet one-way delay: 145.720 ms

Loss rate: 0.59%

Run 10: Report of Vivace-loss — Data Link

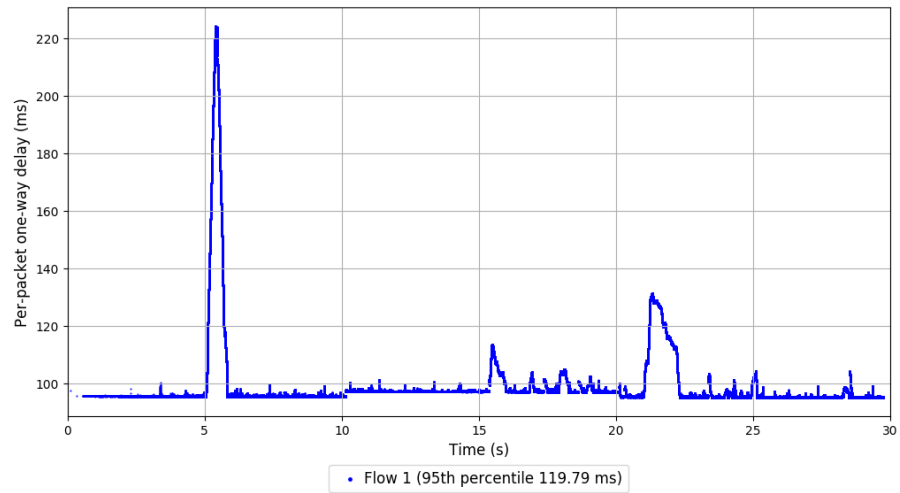
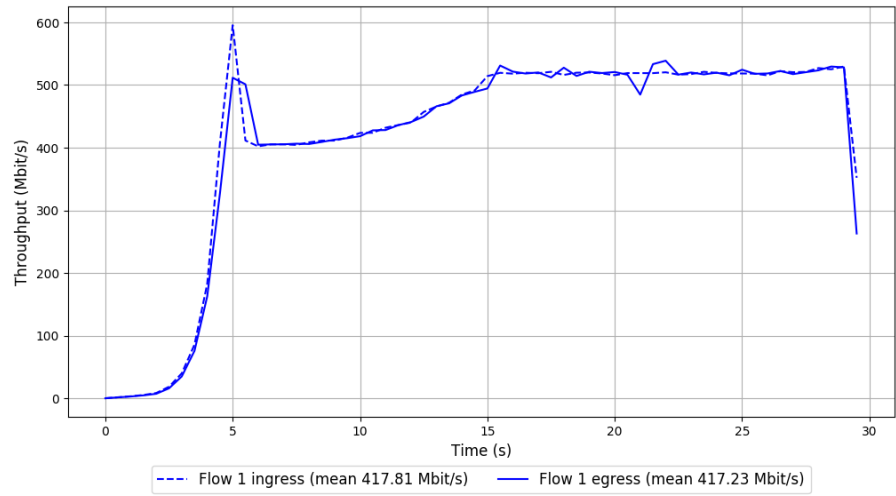


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-12 19:32:59
End at: 2018-02-12 19:33:29

# Below is generated by plot.py at 2018-02-13 01:46:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 417.23 Mbit/s
95th percentile per-packet one-way delay: 119.793 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 417.23 Mbit/s
95th percentile per-packet one-way delay: 119.793 ms
Loss rate: 0.89%
```

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-12 19:48:51

End at: 2018-02-12 19:49:21

Below is generated by plot.py at 2018-02-13 01:48:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 418.64 Mbit/s

95th percentile per-packet one-way delay: 104.811 ms

Loss rate: 0.90%

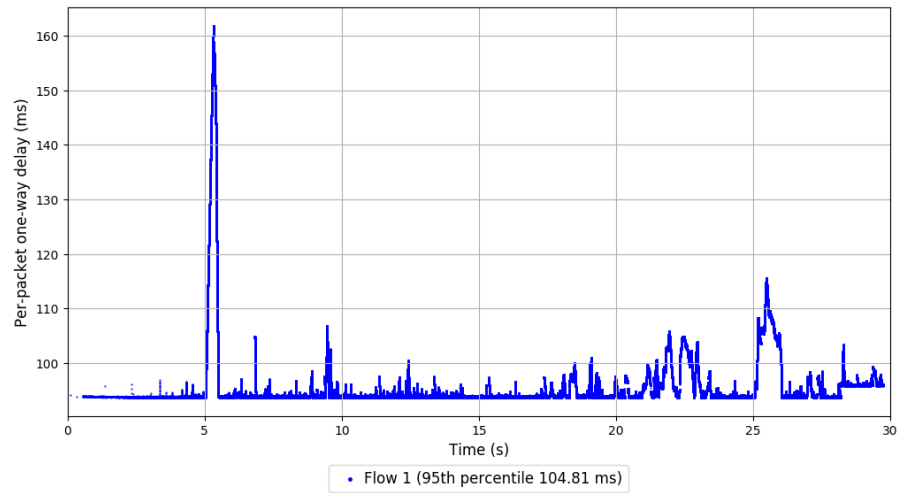
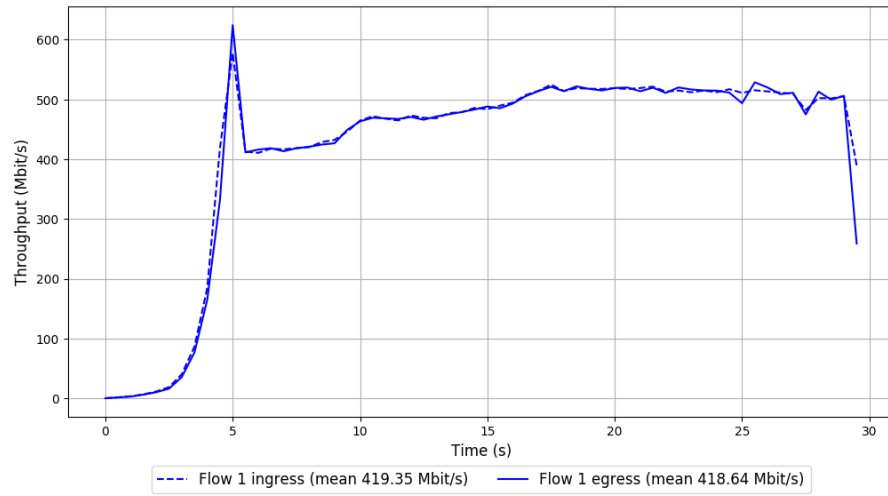
-- Flow 1:

Average throughput: 418.64 Mbit/s

95th percentile per-packet one-way delay: 104.811 ms

Loss rate: 0.90%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-12 20:04:09

End at: 2018-02-12 20:04:39

Below is generated by plot.py at 2018-02-13 01:48:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 406.12 Mbit/s

95th percentile per-packet one-way delay: 111.368 ms

Loss rate: 0.92%

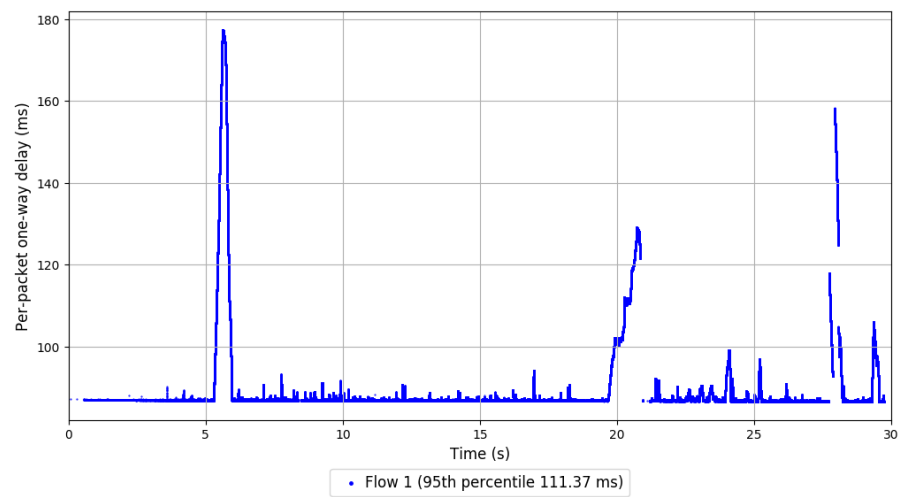
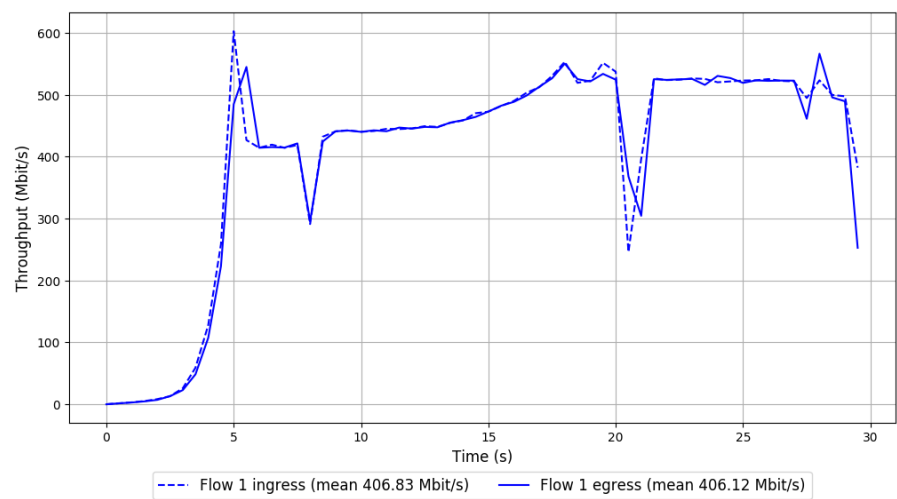
-- Flow 1:

Average throughput: 406.12 Mbit/s

95th percentile per-packet one-way delay: 111.368 ms

Loss rate: 0.92%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-12 20:19:31

End at: 2018-02-12 20:20:01

Below is generated by plot.py at 2018-02-13 01:48:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 391.71 Mbit/s

95th percentile per-packet one-way delay: 99.296 ms

Loss rate: 1.03%

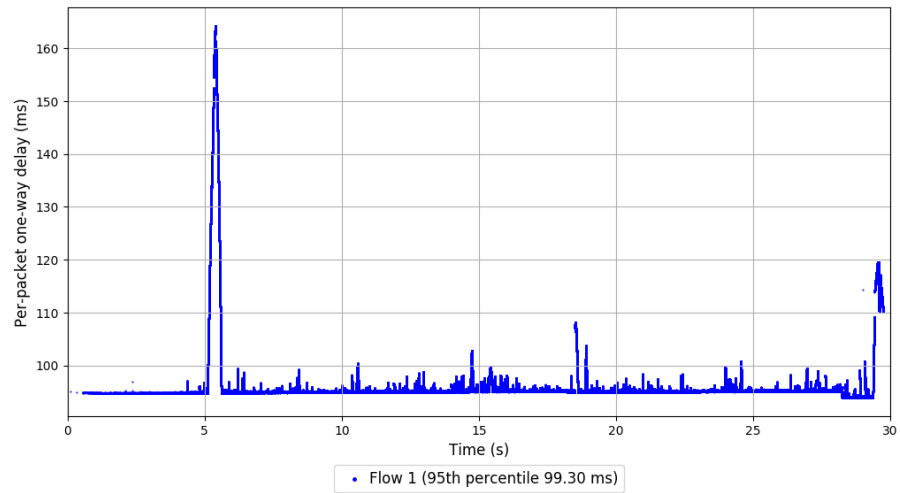
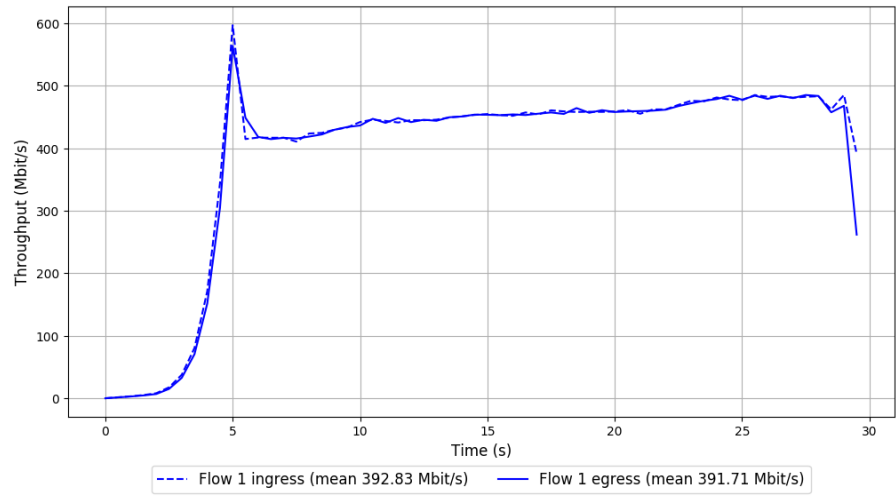
-- Flow 1:

Average throughput: 391.71 Mbit/s

95th percentile per-packet one-way delay: 99.296 ms

Loss rate: 1.03%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-12 20:35:10

End at: 2018-02-12 20:35:40

Below is generated by plot.py at 2018-02-13 01:49:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 410.61 Mbit/s

95th percentile per-packet one-way delay: 156.688 ms

Loss rate: 0.49%

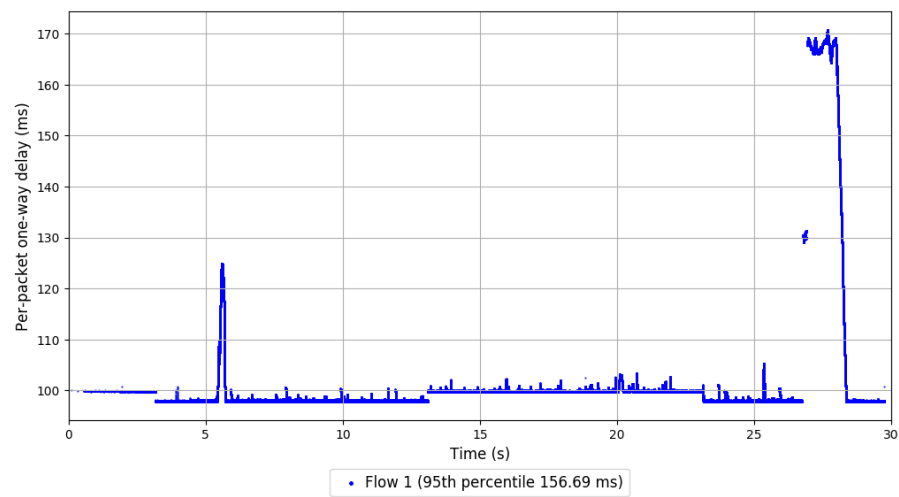
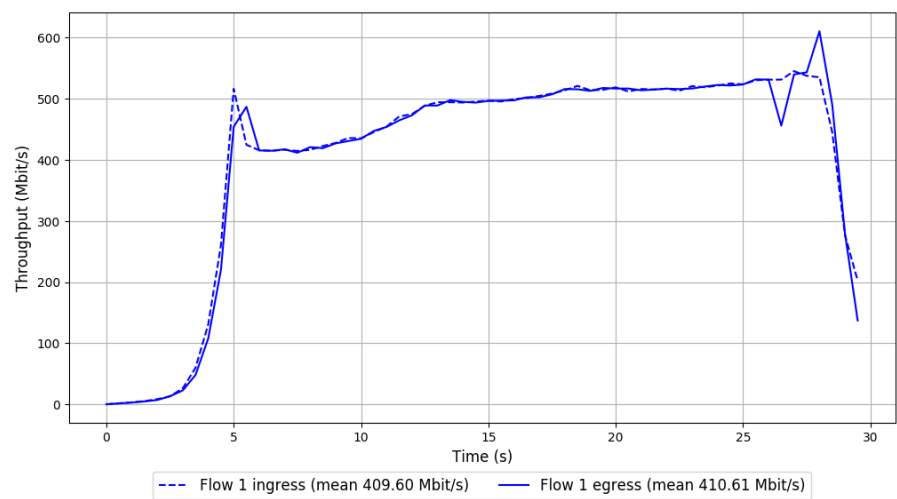
-- Flow 1:

Average throughput: 410.61 Mbit/s

95th percentile per-packet one-way delay: 156.688 ms

Loss rate: 0.49%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-12 20:50:47

End at: 2018-02-12 20:51:18

Below is generated by plot.py at 2018-02-13 01:49:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 386.22 Mbit/s

95th percentile per-packet one-way delay: 102.139 ms

Loss rate: 1.22%

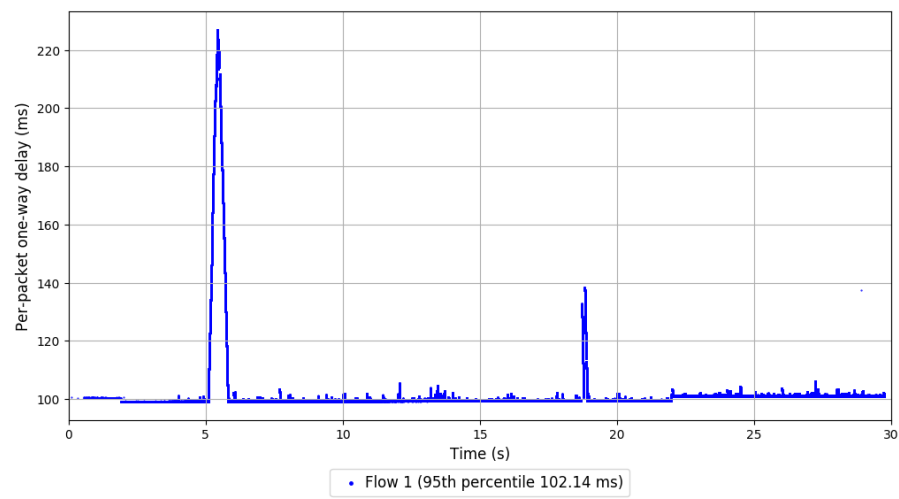
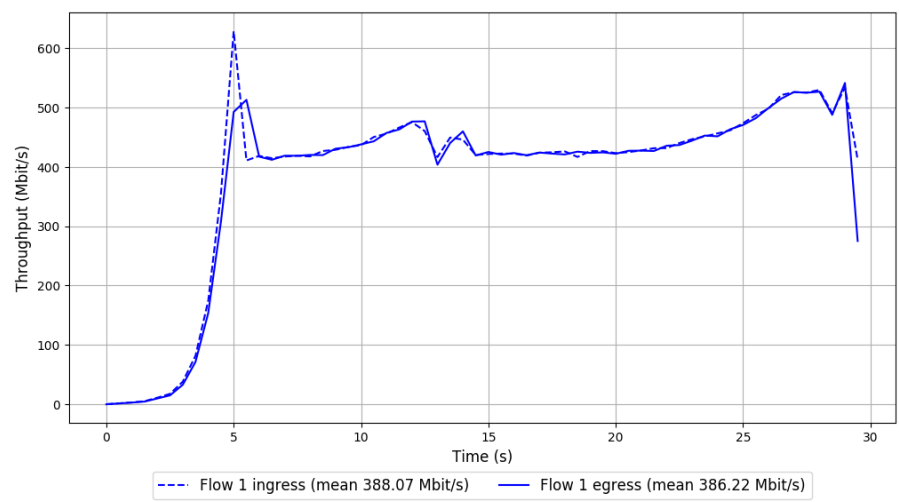
-- Flow 1:

Average throughput: 386.22 Mbit/s

95th percentile per-packet one-way delay: 102.139 ms

Loss rate: 1.22%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-12 21:06:39

End at: 2018-02-12 21:07:09

Below is generated by plot.py at 2018-02-13 01:49:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 328.74 Mbit/s

95th percentile per-packet one-way delay: 108.442 ms

Loss rate: 1.16%

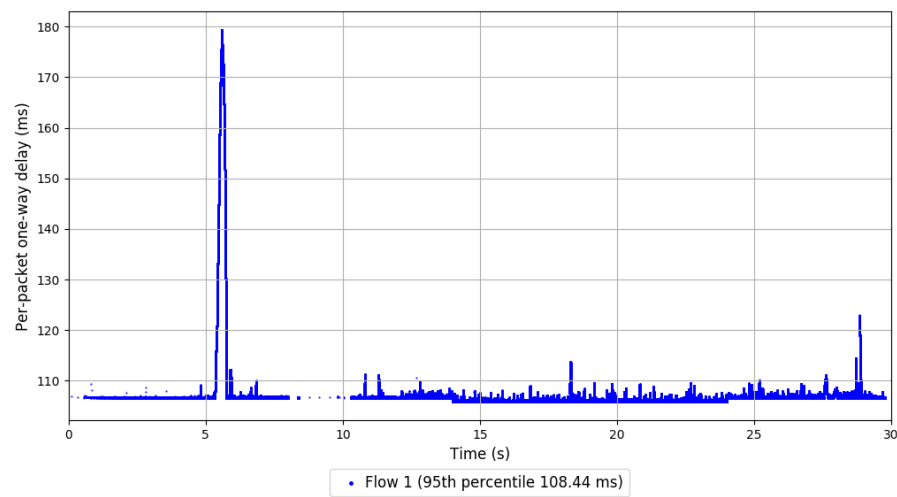
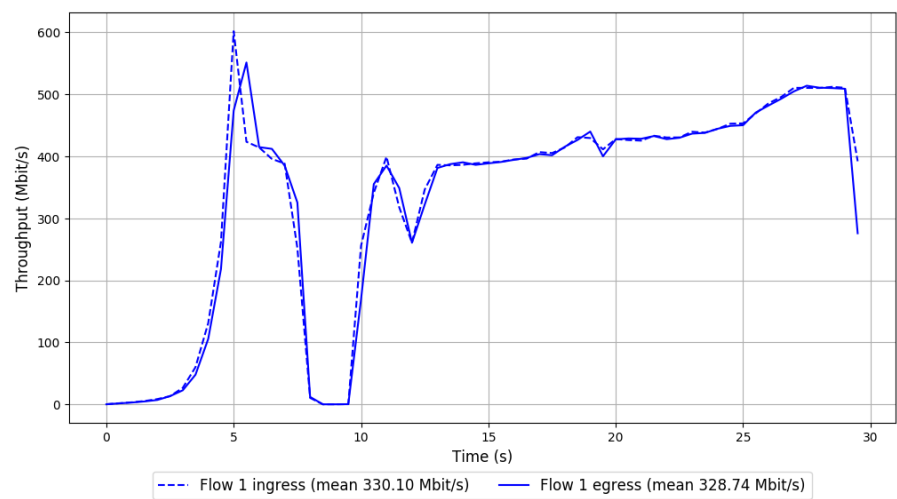
-- Flow 1:

Average throughput: 328.74 Mbit/s

95th percentile per-packet one-way delay: 108.442 ms

Loss rate: 1.16%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-12 21:21:59

End at: 2018-02-12 21:22:29

Below is generated by plot.py at 2018-02-13 01:50:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 398.65 Mbit/s

95th percentile per-packet one-way delay: 111.711 ms

Loss rate: 1.10%

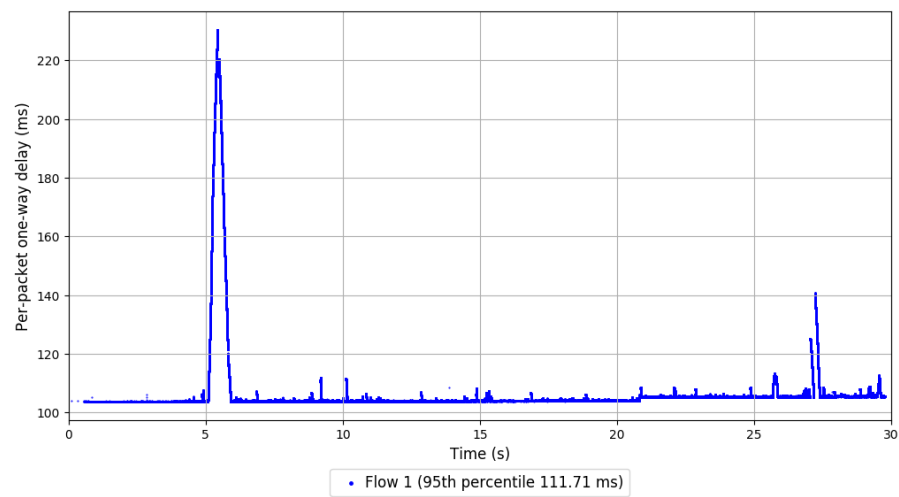
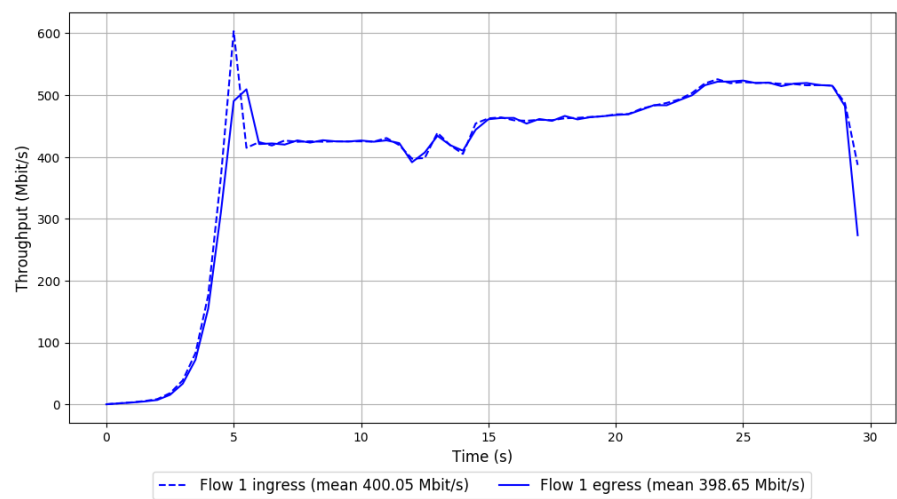
-- Flow 1:

Average throughput: 398.65 Mbit/s

95th percentile per-packet one-way delay: 111.711 ms

Loss rate: 1.10%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-12 21:37:34

End at: 2018-02-12 21:38:04

Below is generated by plot.py at 2018-02-13 01:50:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 424.78 Mbit/s

95th percentile per-packet one-way delay: 142.938 ms

Loss rate: 1.02%

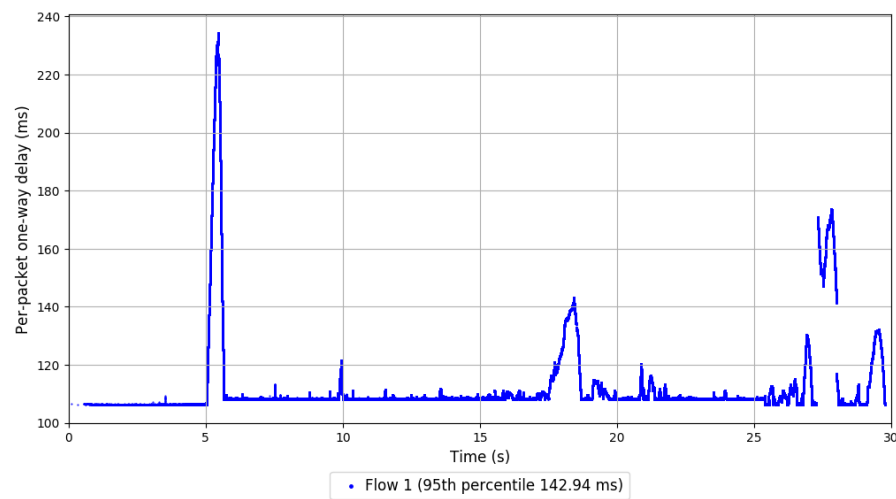
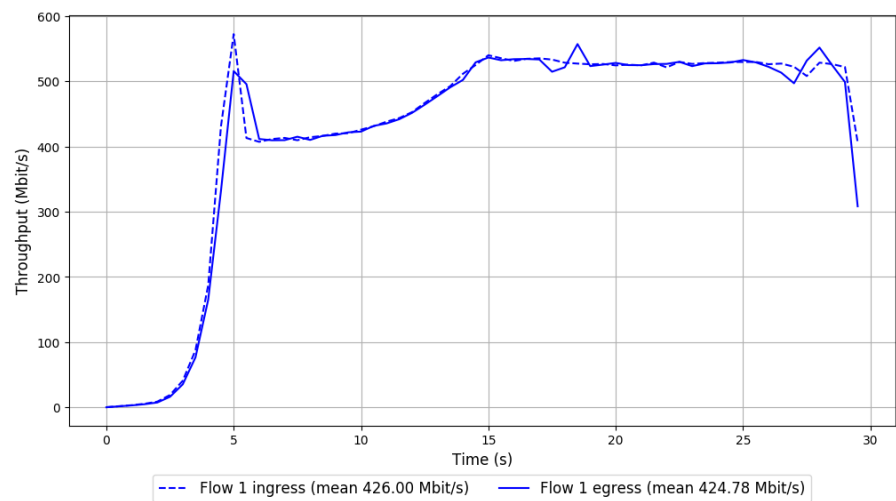
-- Flow 1:

Average throughput: 424.78 Mbit/s

95th percentile per-packet one-way delay: 142.938 ms

Loss rate: 1.02%

Run 9: Report of Vivace-LTE — Data Link



```
Run 10: Statistics of Vivace-LTE

Start at: 2018-02-12 21:52:53
End at: 2018-02-12 21:53:23

# Below is generated by plot.py at 2018-02-13 01:50:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 413.22 Mbit/s
95th percentile per-packet one-way delay: 120.421 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 413.22 Mbit/s
95th percentile per-packet one-way delay: 120.421 ms
Loss rate: 0.98%
```

Run 10: Report of Vivace-LTE — Data Link

