

Pantheon Report

Generated at 2018-01-09 00:47:53 (UTC).

Data path: GCE London Ethernet (*local*) → GCE Tokyo Ethernet (*remote*).

Repeated the test of 14 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

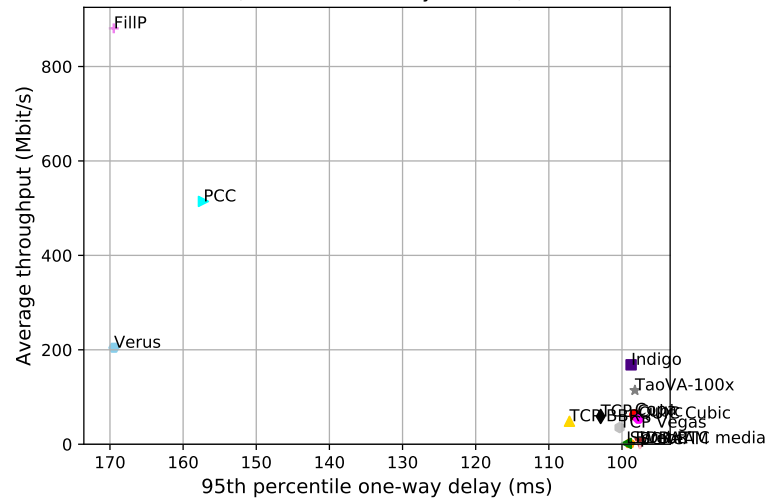
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

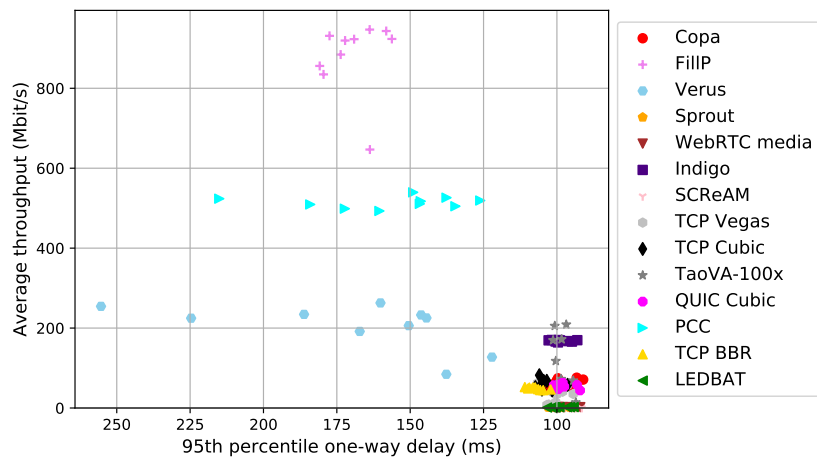
Git summary:

```
branch: master @ 56d1792c316a5efca3f2d21342905405fedffb48
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
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 @ f1a14bffe749737437f61b1eaaeb30b267cde681
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/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



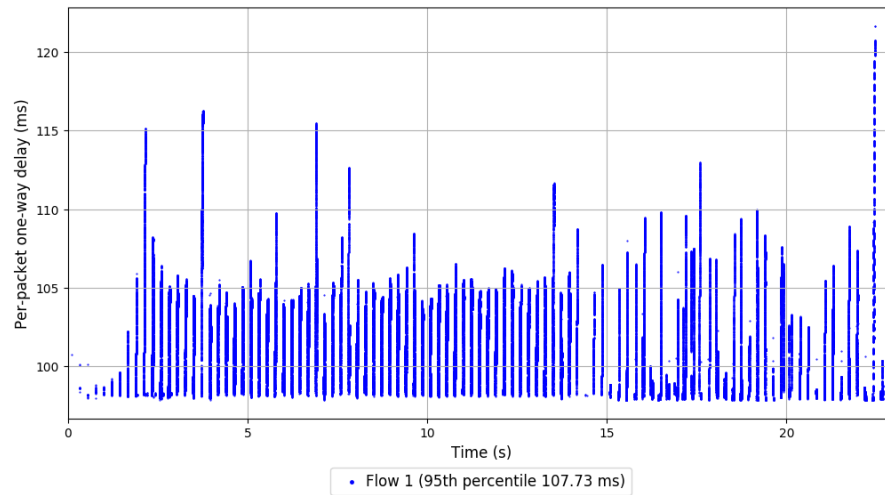
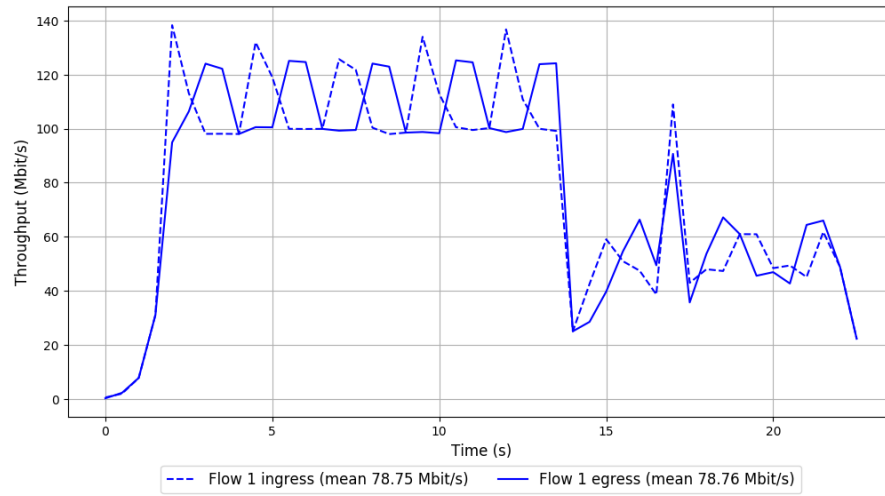
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	9	48.70	107.18	0.64
TCP Cubic	10	58.85	102.92	0.23
LEDBAT	10	1.76	99.42	0.23
PCC	10	514.30	157.22	1.50
QUIC Cubic	9	54.58	97.73	0.00
SCReAM	10	0.20	97.55	0.01
WebRTC media	10	2.14	97.54	0.00
Sprout	10	1.98	98.93	0.56
TaoVA-100x	10	114.14	98.23	0.03
TCP Vegas	10	35.26	100.33	0.22
Verus	10	204.40	169.45	0.26
Copa	10	62.13	98.25	0.00
FillP	10	880.88	169.48	2.72
Indigo	10	168.21	98.75	0.04

Run 1: Statistics of TCP BBR

Start at: 2018-01-08 20:54:46

End at: 2018-01-08 20:55:16

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-08 21:07:16

End at: 2018-01-08 21:07:46

Below is generated by plot.py at 2018-01-08 23:57:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.41 Mbit/s

95th percentile per-packet one-way delay: 108.235 ms

Loss rate: 0.67%

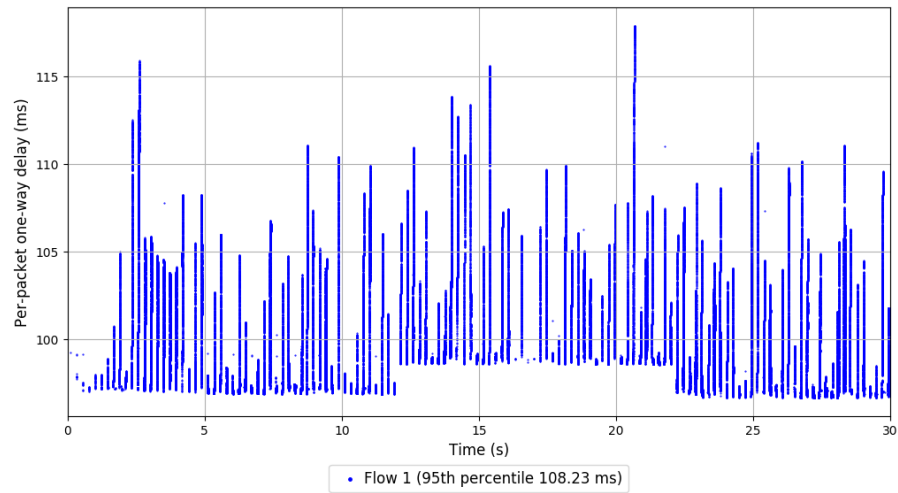
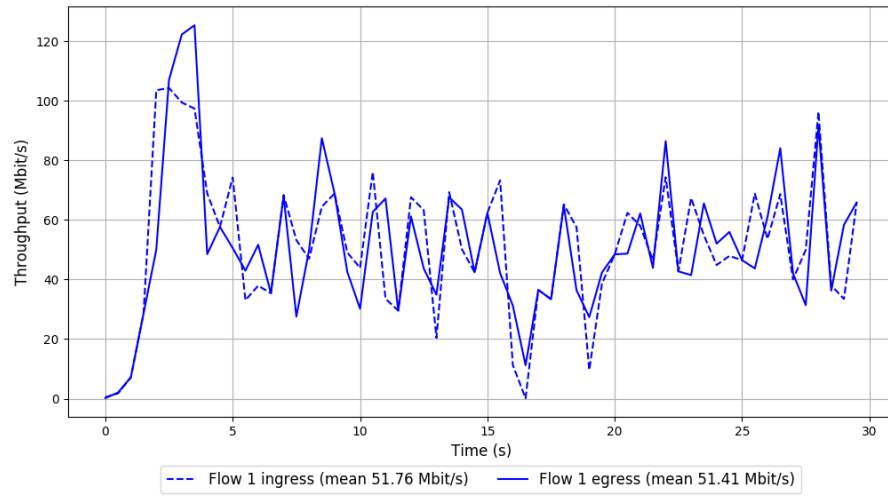
-- Flow 1:

Average throughput: 51.41 Mbit/s

95th percentile per-packet one-way delay: 108.235 ms

Loss rate: 0.67%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-08 21:19:57

End at: 2018-01-08 21:20:27

Below is generated by plot.py at 2018-01-08 23:57:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.36 Mbit/s

95th percentile per-packet one-way delay: 102.152 ms

Loss rate: 0.57%

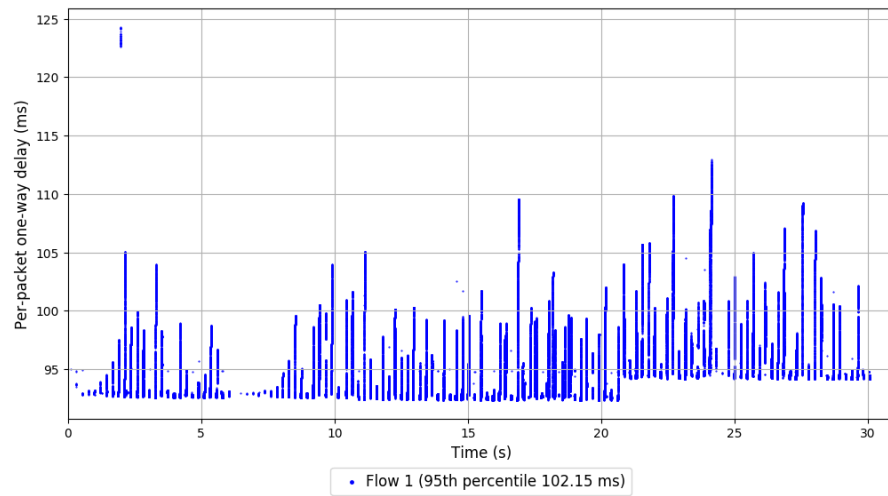
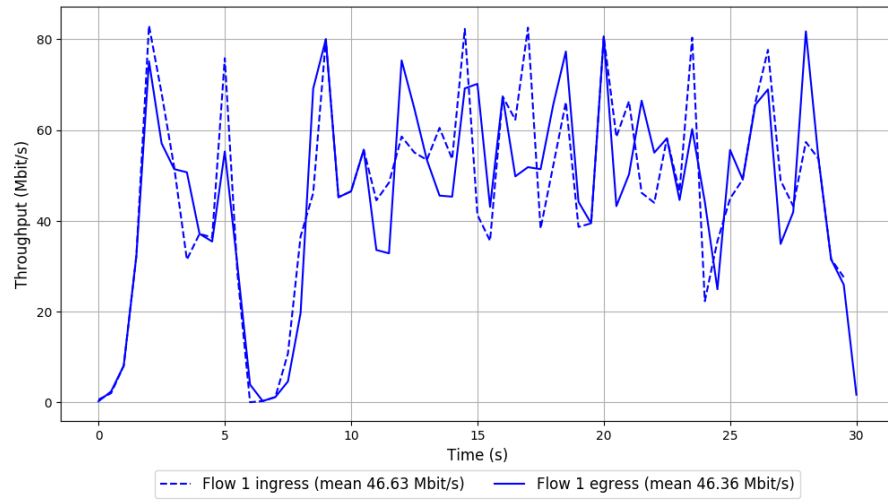
-- Flow 1:

Average throughput: 46.36 Mbit/s

95th percentile per-packet one-way delay: 102.152 ms

Loss rate: 0.57%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-08 21:32:08

End at: 2018-01-08 21:32:38

Below is generated by plot.py at 2018-01-08 23:57:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.66 Mbit/s

95th percentile per-packet one-way delay: 104.677 ms

Loss rate: 1.08%

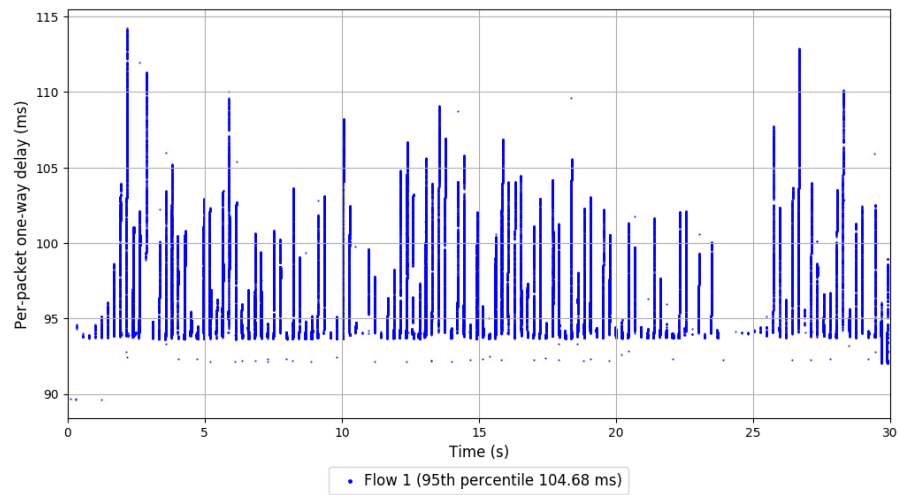
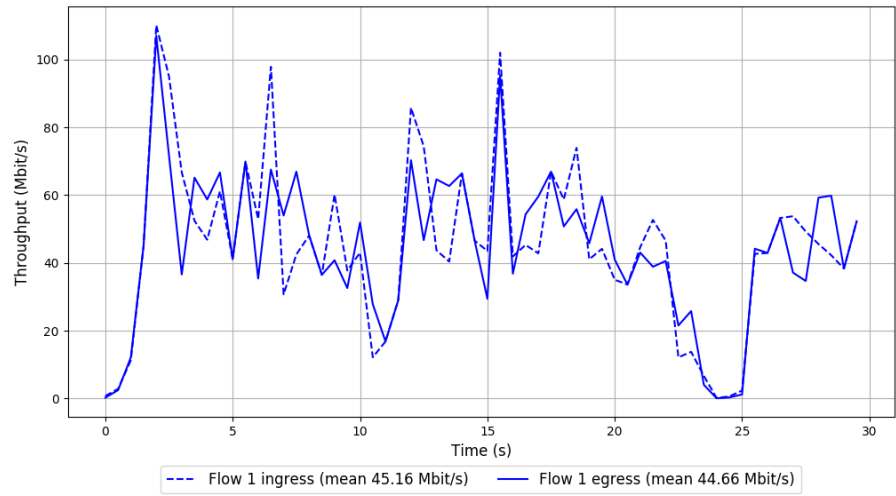
-- Flow 1:

Average throughput: 44.66 Mbit/s

95th percentile per-packet one-way delay: 104.677 ms

Loss rate: 1.08%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-08 21:44:30

End at: 2018-01-08 21:45:00

Below is generated by plot.py at 2018-01-08 23:57:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.59 Mbit/s

95th percentile per-packet one-way delay: 107.405 ms

Loss rate: 0.59%

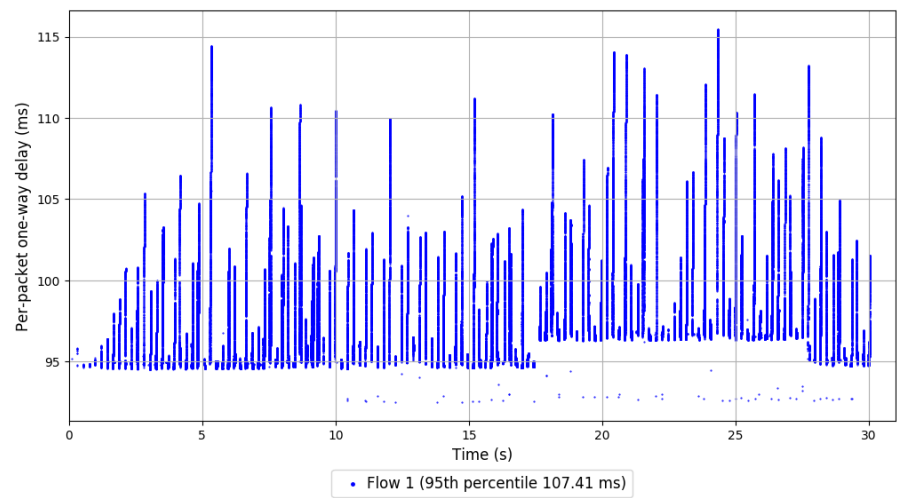
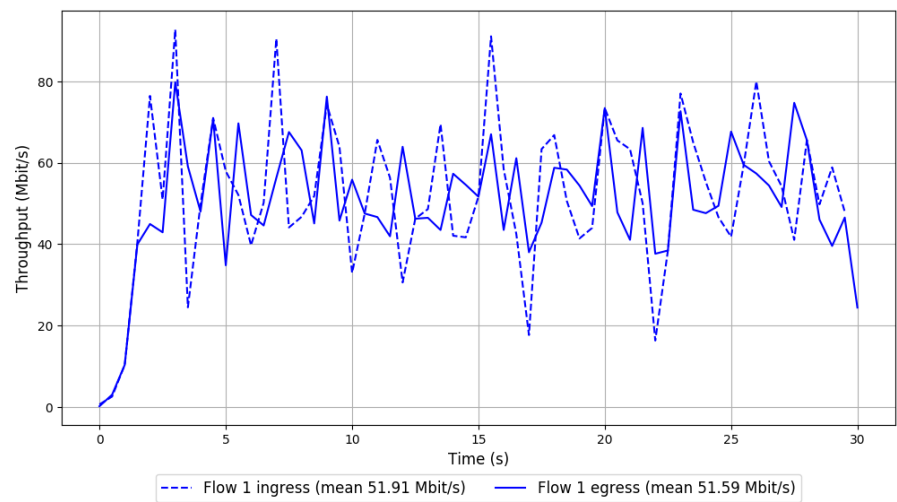
-- Flow 1:

Average throughput: 51.59 Mbit/s

95th percentile per-packet one-way delay: 107.405 ms

Loss rate: 0.59%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-08 21:57:07

End at: 2018-01-08 21:57:37

Below is generated by plot.py at 2018-01-08 23:57:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.29 Mbit/s

95th percentile per-packet one-way delay: 110.923 ms

Loss rate: 0.28%

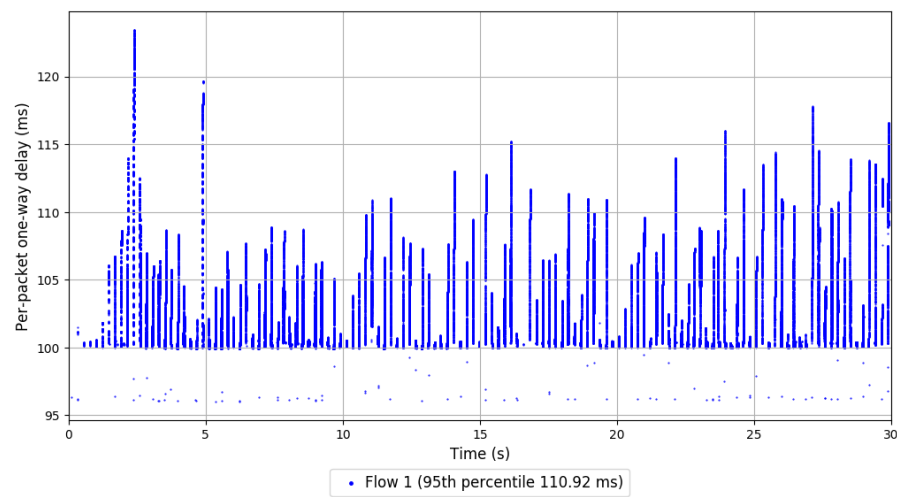
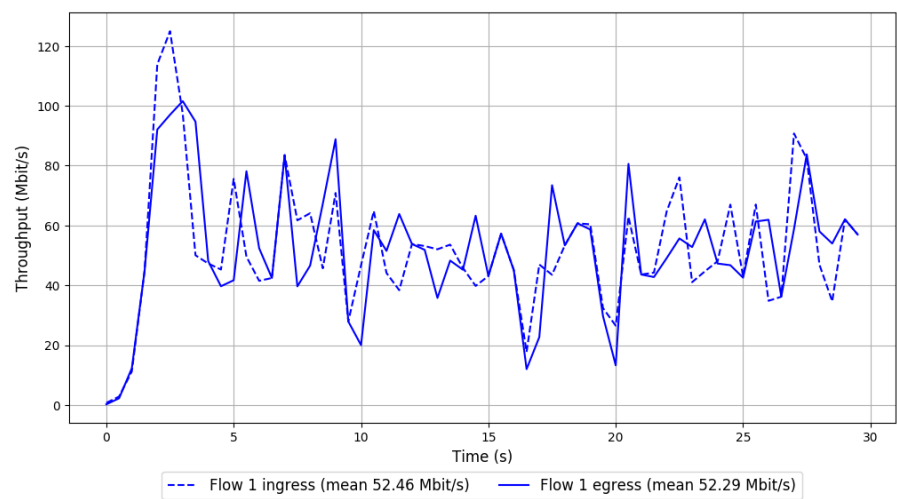
-- Flow 1:

Average throughput: 52.29 Mbit/s

95th percentile per-packet one-way delay: 110.923 ms

Loss rate: 0.28%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-08 22:09:39

End at: 2018-01-08 22:10:09

Below is generated by plot.py at 2018-01-08 23:57:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.97 Mbit/s

95th percentile per-packet one-way delay: 109.800 ms

Loss rate: 0.00%

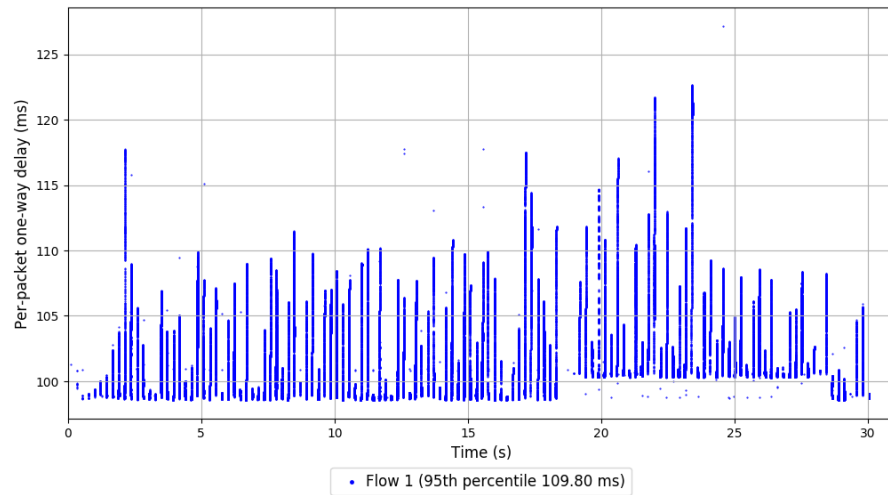
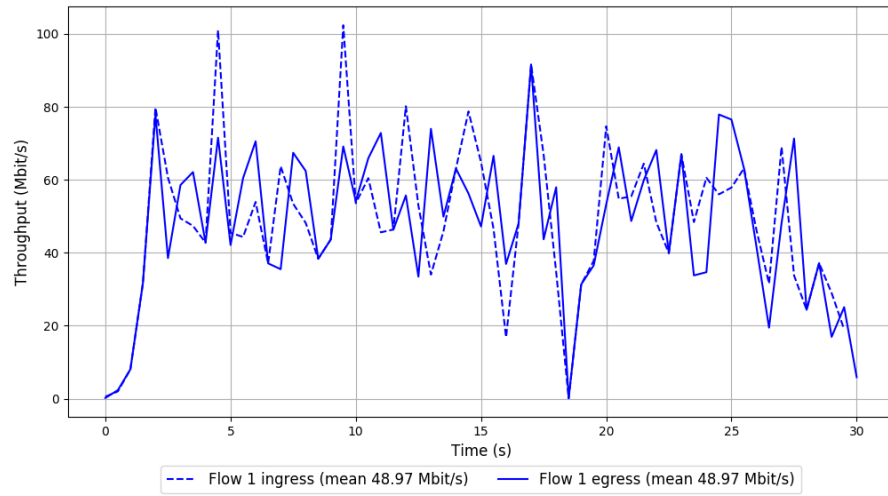
-- Flow 1:

Average throughput: 48.97 Mbit/s

95th percentile per-packet one-way delay: 109.800 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-08 22:22:03

End at: 2018-01-08 22:22:33

Below is generated by plot.py at 2018-01-08 23:57:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.12 Mbit/s

95th percentile per-packet one-way delay: 106.383 ms

Loss rate: 0.00%

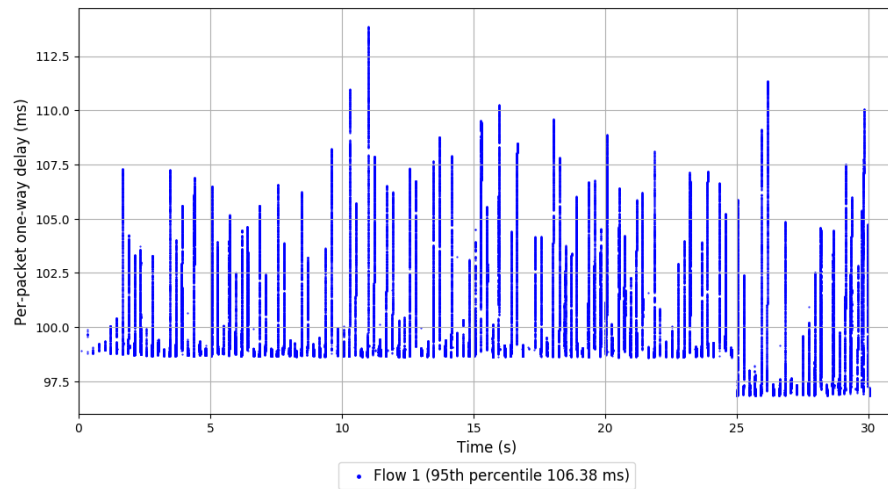
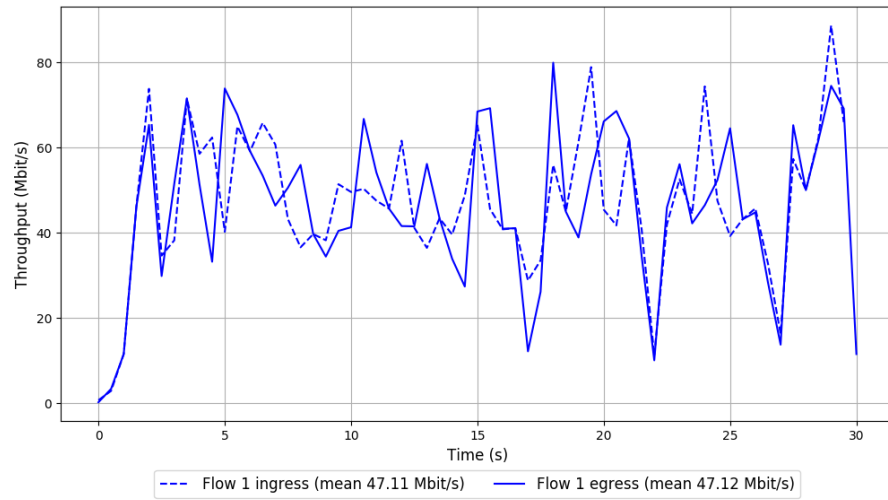
-- Flow 1:

Average throughput: 47.12 Mbit/s

95th percentile per-packet one-way delay: 106.383 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-08 22:34:23

End at: 2018-01-08 22:34:53

Below is generated by plot.py at 2018-01-08 23:58:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.79 Mbit/s

95th percentile per-packet one-way delay: 105.673 ms

Loss rate: 1.38%

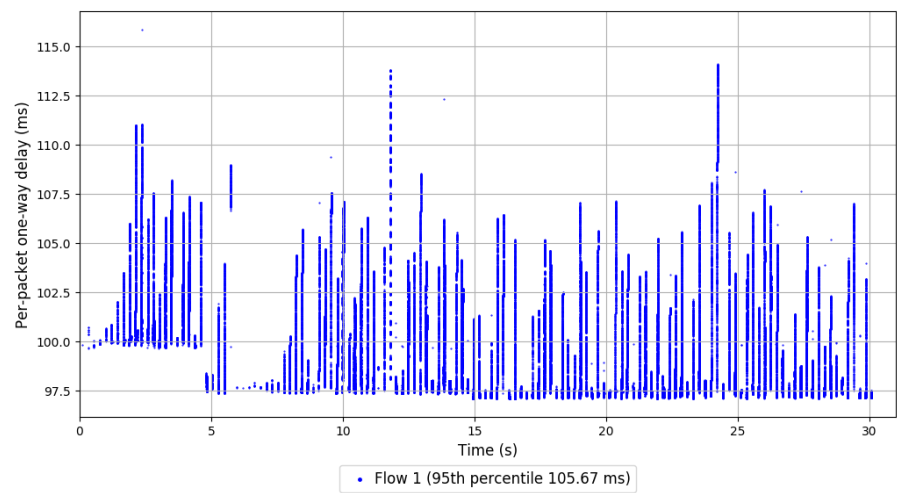
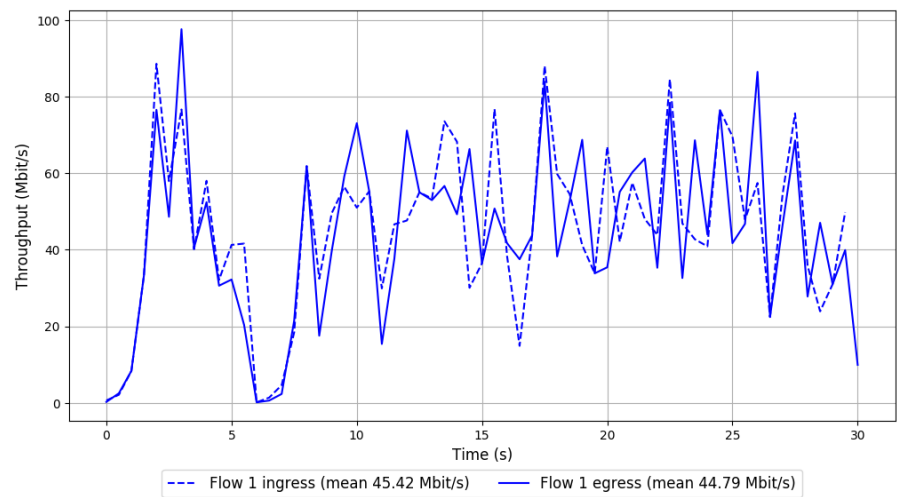
-- Flow 1:

Average throughput: 44.79 Mbit/s

95th percentile per-packet one-way delay: 105.673 ms

Loss rate: 1.38%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-08 22:46:51

End at: 2018-01-08 22:47:21

Below is generated by plot.py at 2018-01-08 23:58:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.12 Mbit/s

95th percentile per-packet one-way delay: 109.381 ms

Loss rate: 1.19%

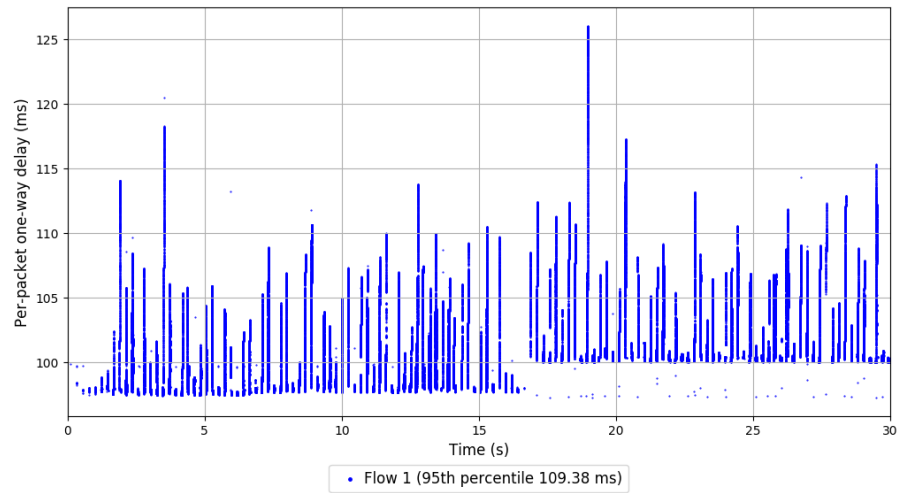
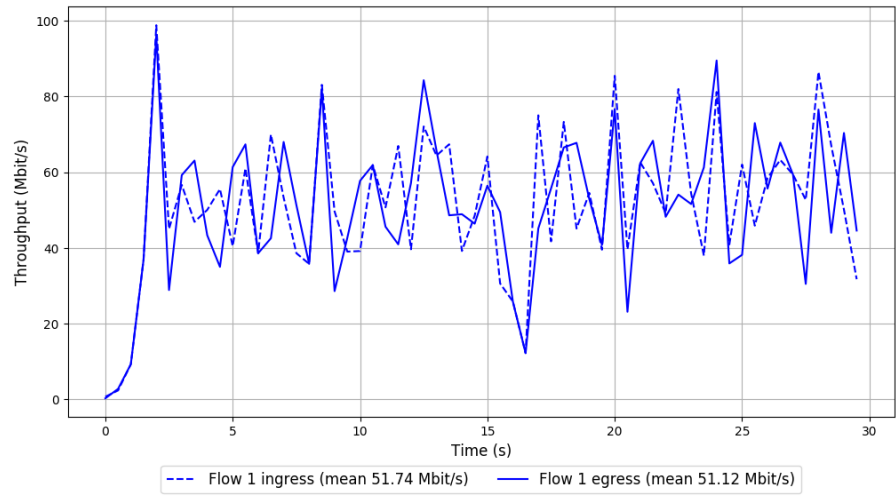
-- Flow 1:

Average throughput: 51.12 Mbit/s

95th percentile per-packet one-way delay: 109.381 ms

Loss rate: 1.19%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-08 21:05:09

End at: 2018-01-08 21:05:39

Below is generated by plot.py at 2018-01-08 23:58:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.34 Mbit/s

95th percentile per-packet one-way delay: 101.603 ms

Loss rate: 0.99%

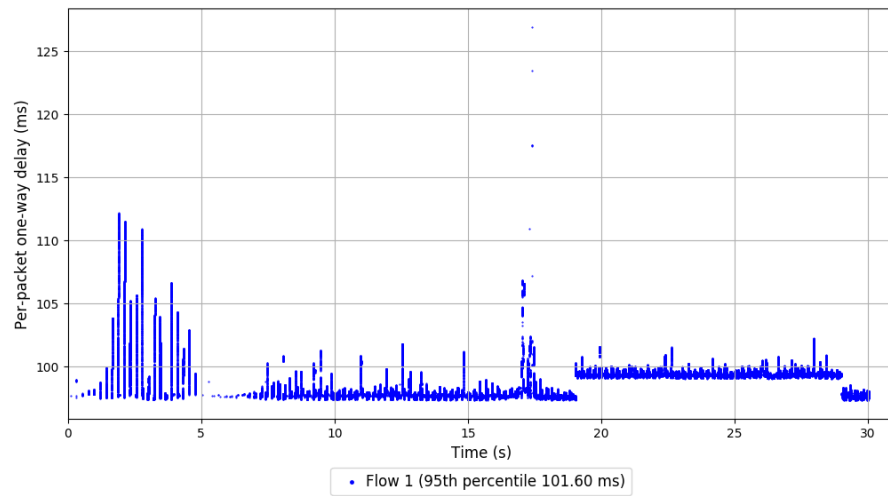
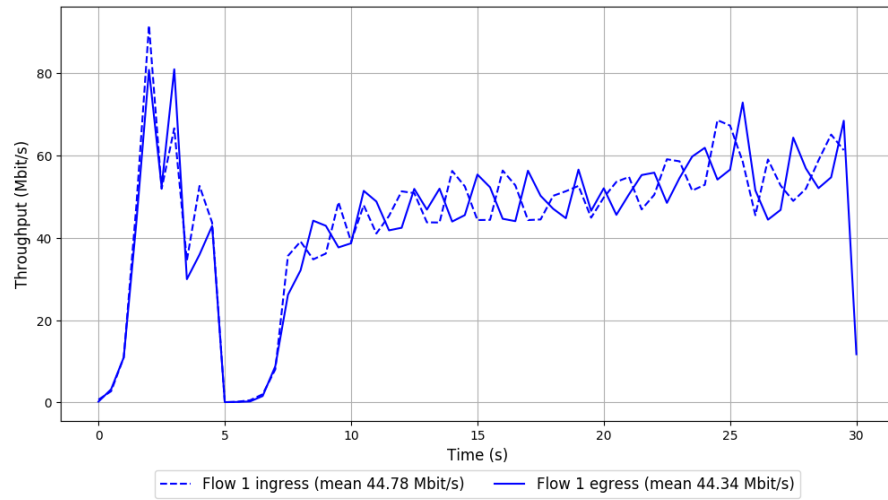
-- Flow 1:

Average throughput: 44.34 Mbit/s

95th percentile per-packet one-way delay: 101.603 ms

Loss rate: 0.99%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-08 21:17:49

End at: 2018-01-08 21:18:19

Below is generated by plot.py at 2018-01-08 23:58:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.23 Mbit/s

95th percentile per-packet one-way delay: 98.338 ms

Loss rate: 0.00%

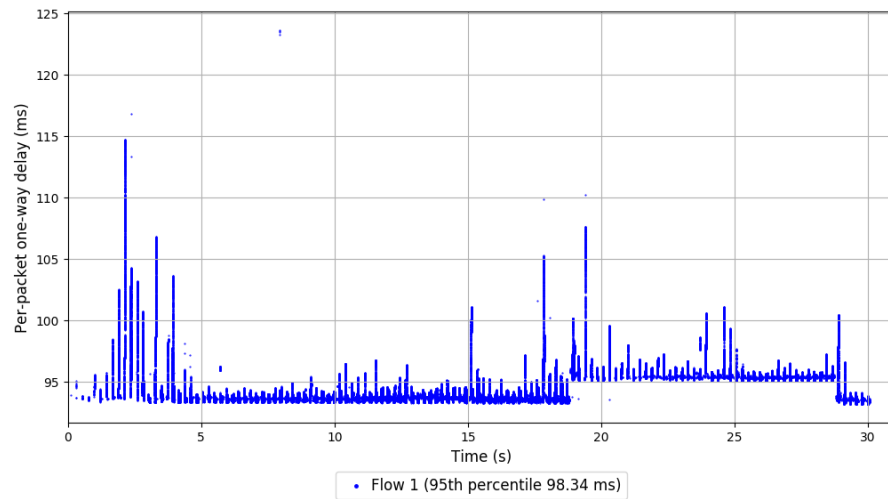
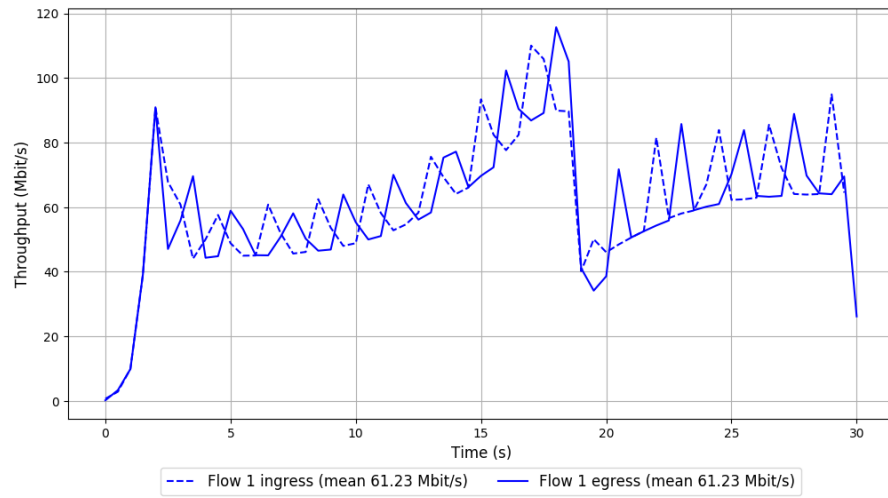
-- Flow 1:

Average throughput: 61.23 Mbit/s

95th percentile per-packet one-way delay: 98.338 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-08 21:30:01

End at: 2018-01-08 21:30:31

Below is generated by plot.py at 2018-01-08 23:58:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.01 Mbit/s

95th percentile per-packet one-way delay: 96.358 ms

Loss rate: 0.00%

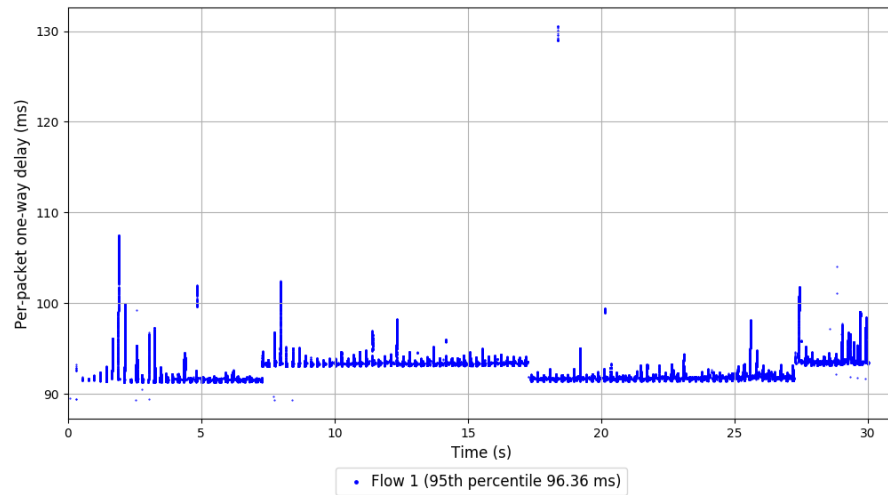
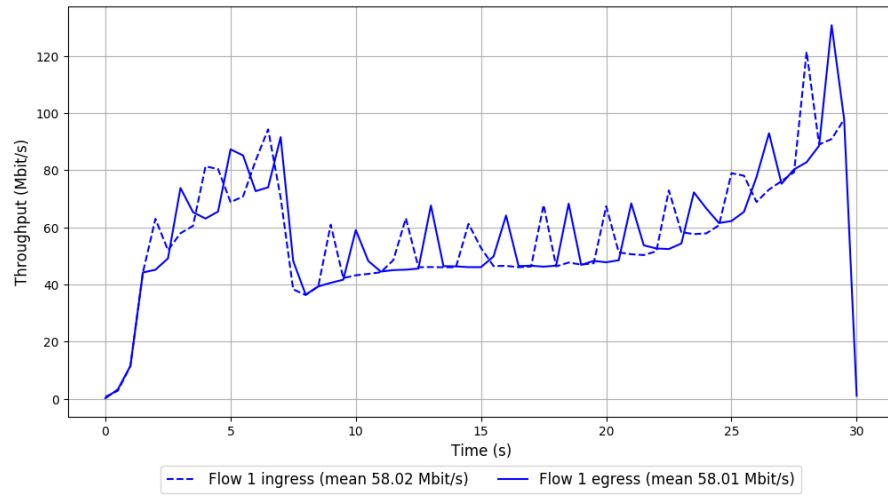
-- Flow 1:

Average throughput: 58.01 Mbit/s

95th percentile per-packet one-way delay: 96.358 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-08 21:42:22

End at: 2018-01-08 21:42:52

Below is generated by plot.py at 2018-01-08 23:58:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.00 Mbit/s

95th percentile per-packet one-way delay: 103.449 ms

Loss rate: 0.83%

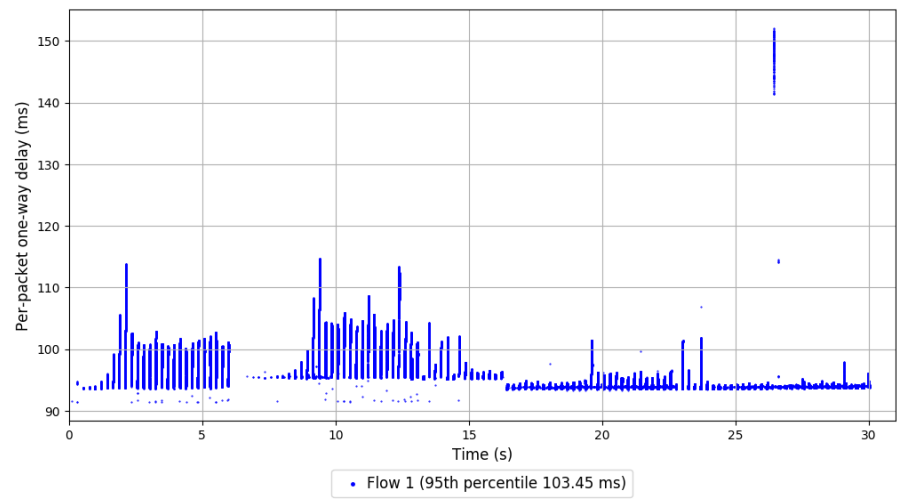
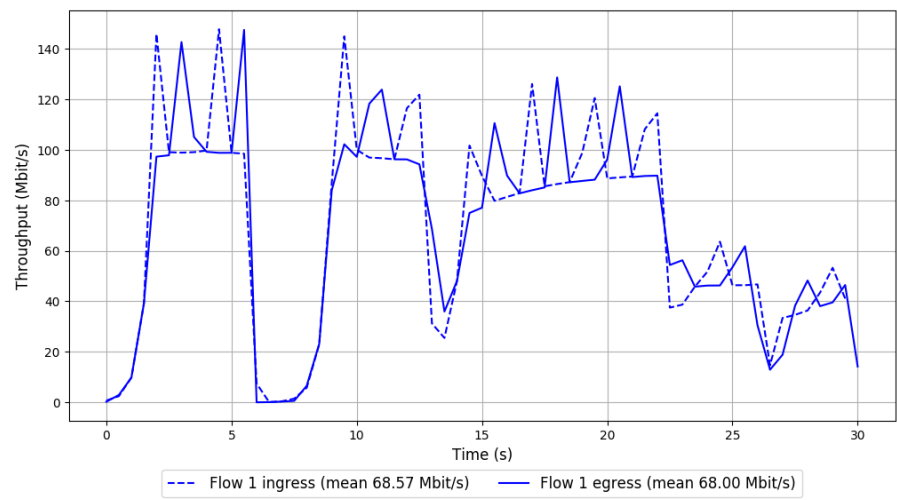
-- Flow 1:

Average throughput: 68.00 Mbit/s

95th percentile per-packet one-way delay: 103.449 ms

Loss rate: 0.83%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-08 21:55:00

End at: 2018-01-08 21:55:30

Below is generated by plot.py at 2018-01-08 23:58:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.14 Mbit/s

95th percentile per-packet one-way delay: 107.324 ms

Loss rate: 0.01%

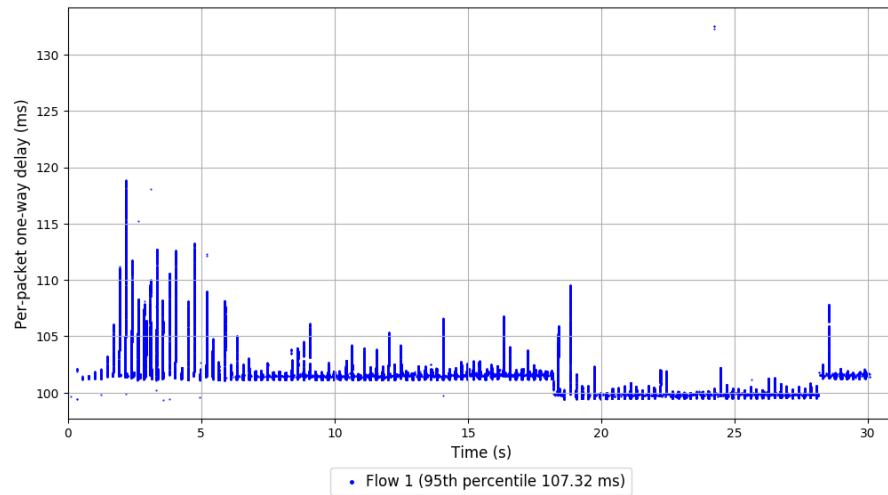
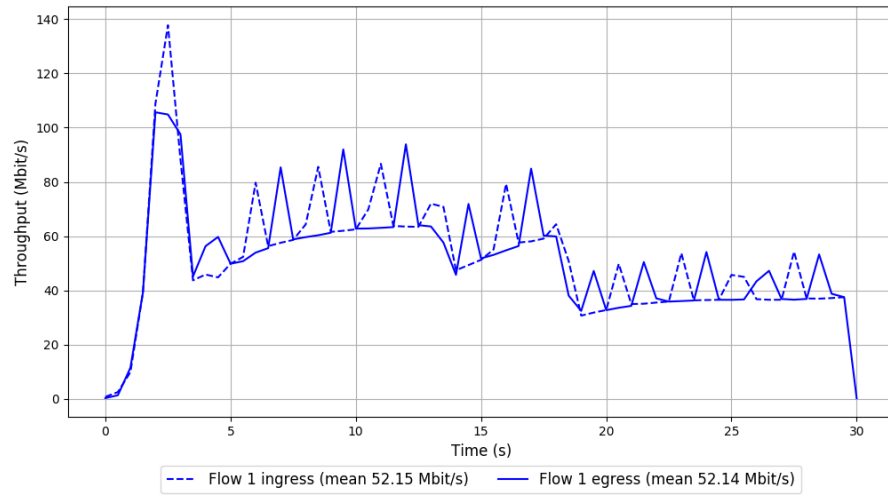
-- Flow 1:

Average throughput: 52.14 Mbit/s

95th percentile per-packet one-way delay: 107.324 ms

Loss rate: 0.01%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-08 22:07:31

End at: 2018-01-08 22:08:01

Below is generated by plot.py at 2018-01-08 23:59:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.78 Mbit/s

95th percentile per-packet one-way delay: 104.514 ms

Loss rate: 0.00%

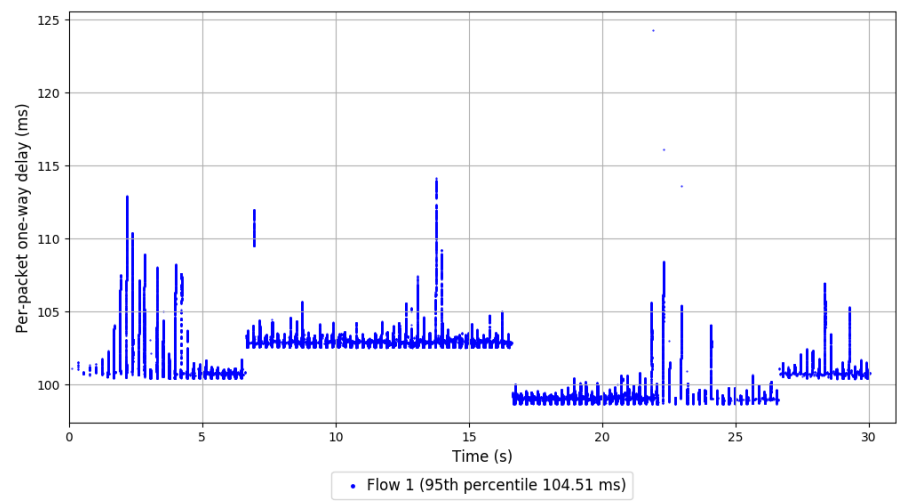
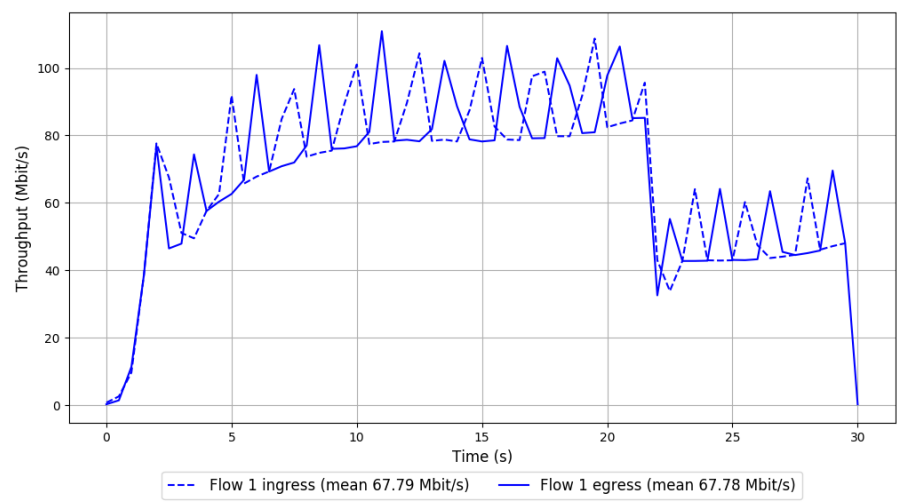
-- Flow 1:

Average throughput: 67.78 Mbit/s

95th percentile per-packet one-way delay: 104.514 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-08 22:19:57

End at: 2018-01-08 22:20:27

Below is generated by plot.py at 2018-01-08 23:59:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.02 Mbit/s

95th percentile per-packet one-way delay: 105.094 ms

Loss rate: 0.40%

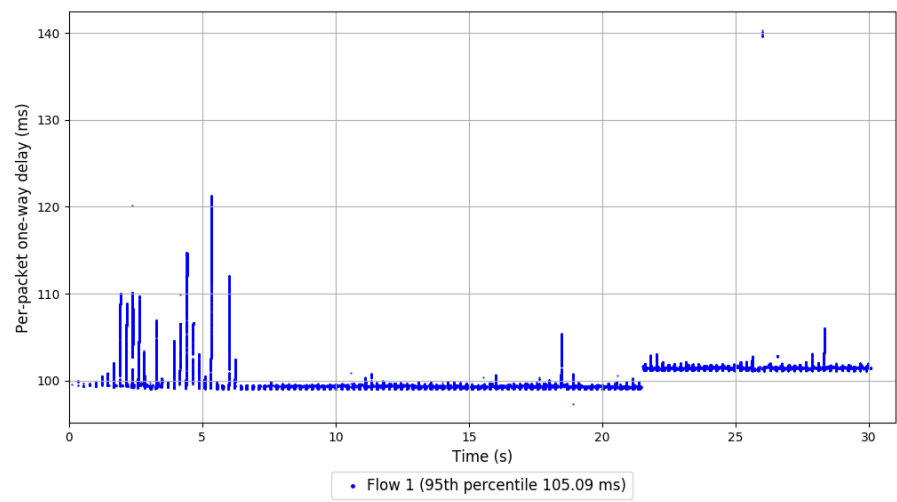
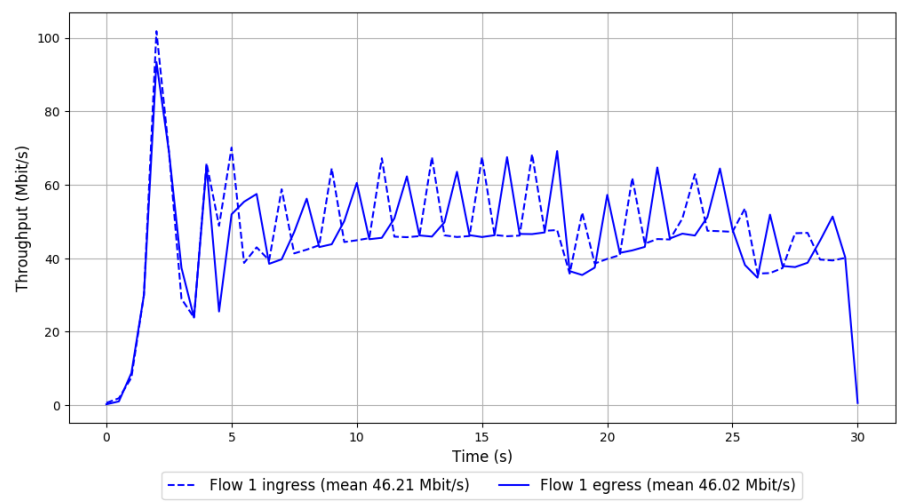
-- Flow 1:

Average throughput: 46.02 Mbit/s

95th percentile per-packet one-way delay: 105.094 ms

Loss rate: 0.40%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-08 22:32:16

End at: 2018-01-08 22:32:46

Below is generated by plot.py at 2018-01-08 23:59:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.22 Mbit/s

95th percentile per-packet one-way delay: 105.621 ms

Loss rate: 0.00%

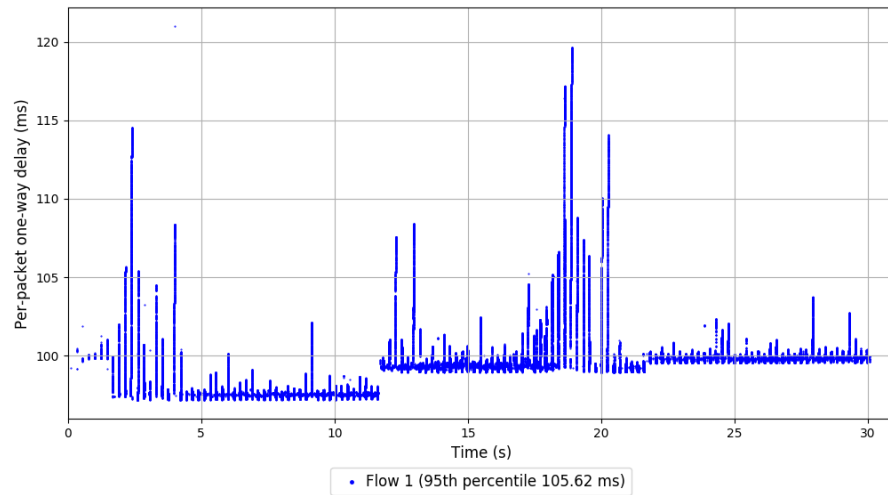
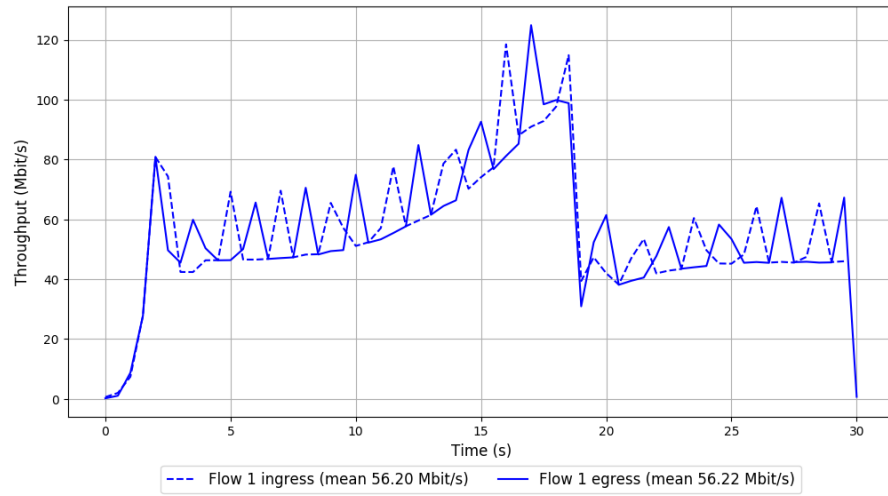
-- Flow 1:

Average throughput: 56.22 Mbit/s

95th percentile per-packet one-way delay: 105.621 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-08 22:44:42

End at: 2018-01-08 22:45:12

Below is generated by plot.py at 2018-01-08 23:59:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.01 Mbit/s

95th percentile per-packet one-way delay: 105.981 ms

Loss rate: 0.00%

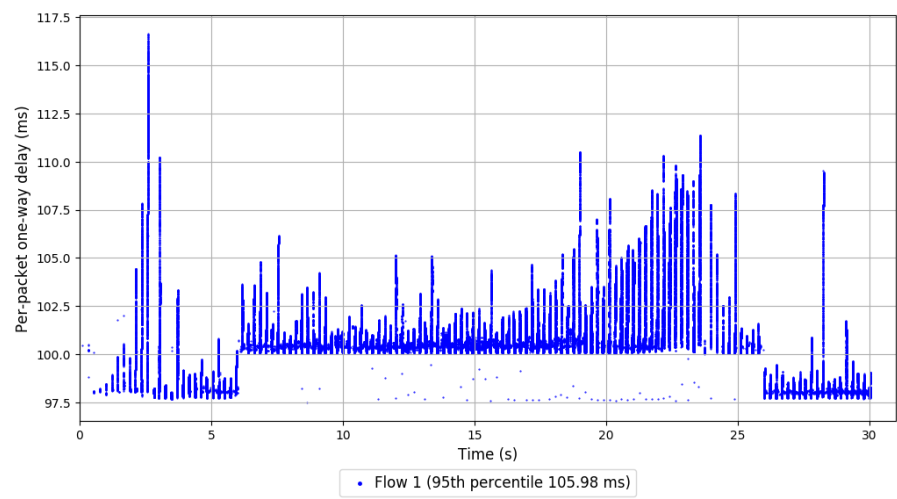
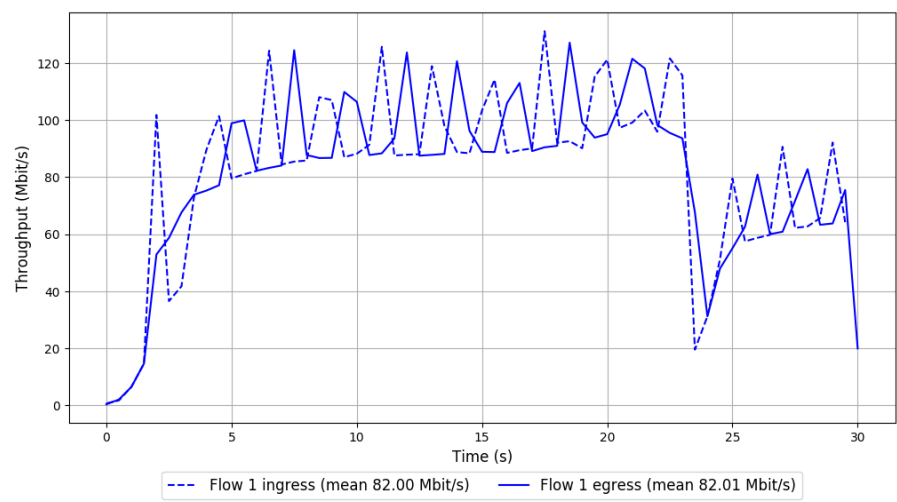
-- Flow 1:

Average throughput: 82.01 Mbit/s

95th percentile per-packet one-way delay: 105.981 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-08 22:57:12

End at: 2018-01-08 22:57:42

Below is generated by plot.py at 2018-01-08 23:59:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.75 Mbit/s

95th percentile per-packet one-way delay: 100.877 ms

Loss rate: 0.08%

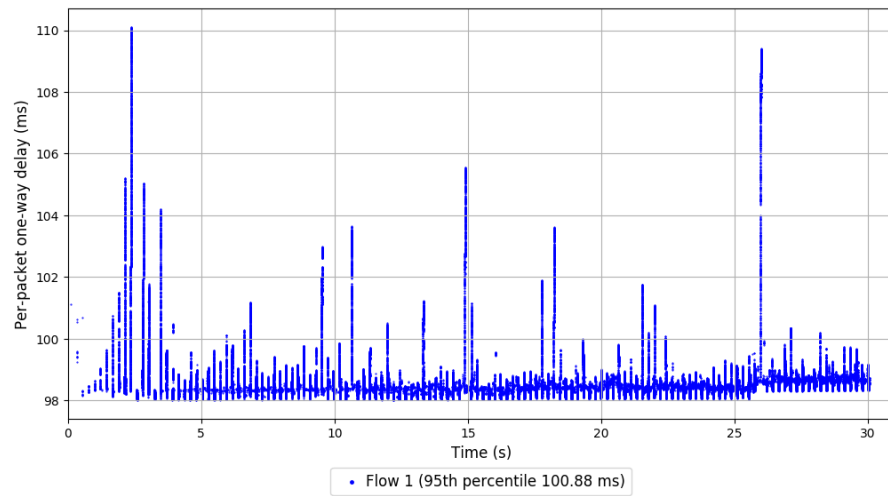
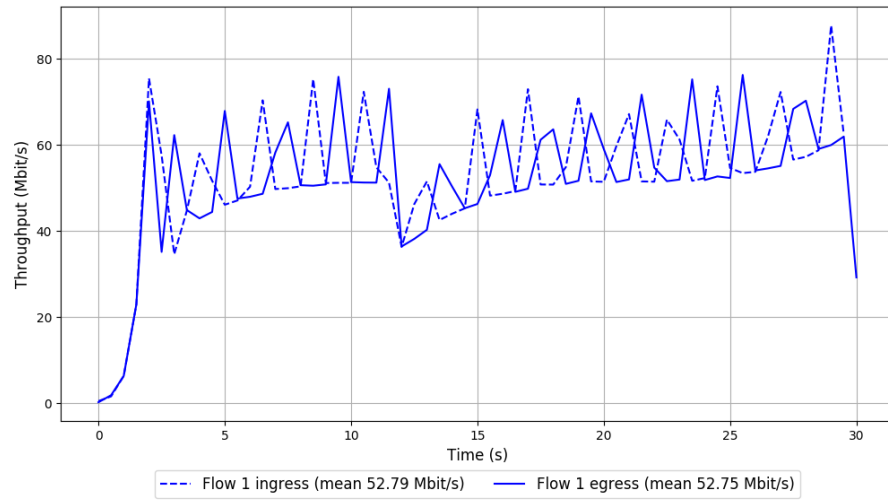
-- Flow 1:

Average throughput: 52.75 Mbit/s

95th percentile per-packet one-way delay: 100.877 ms

Loss rate: 0.08%

Run 10: Report of TCP Cubic — Data Link

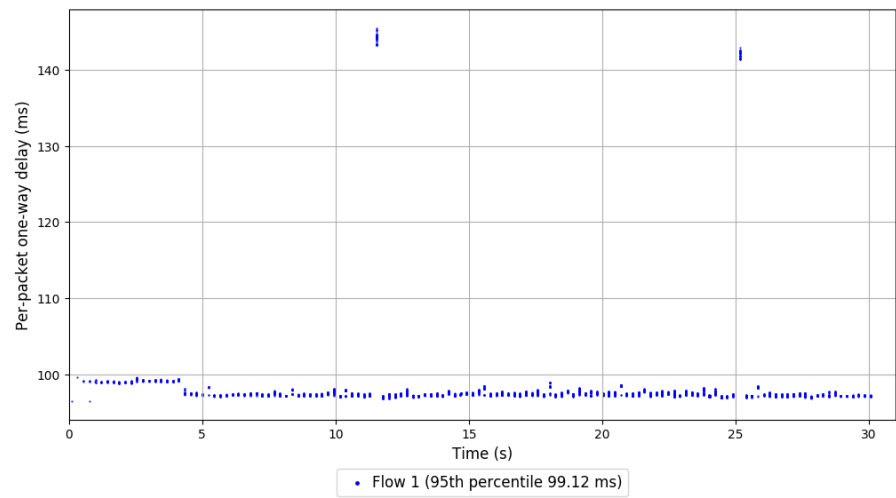
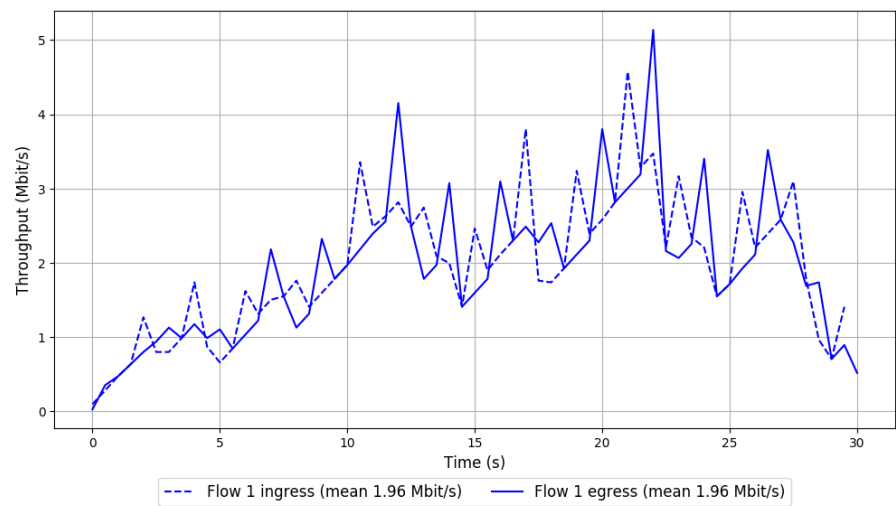


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-08 21:06:34
End at: 2018-01-08 21:07:04

# Below is generated by plot.py at 2018-01-08 23:59:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 99.120 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 99.120 ms
Loss rate: 0.16%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-01-08 21:19:15

End at: 2018-01-08 21:19:45

Below is generated by plot.py at 2018-01-08 23:59:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 95.546 ms

Loss rate: 0.02%

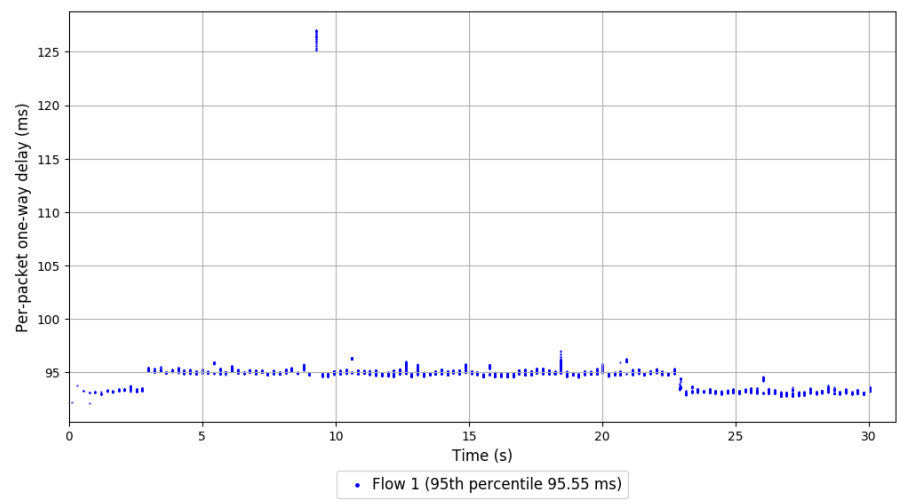
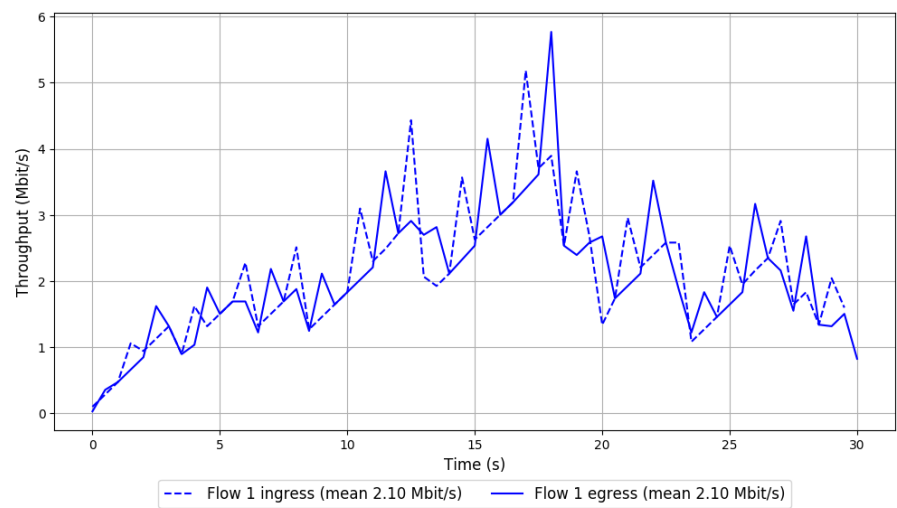
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 95.546 ms

Loss rate: 0.02%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-08 21:31:26

End at: 2018-01-08 21:31:56

Below is generated by plot.py at 2018-01-08 23:59:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 94.293 ms

Loss rate: 0.05%

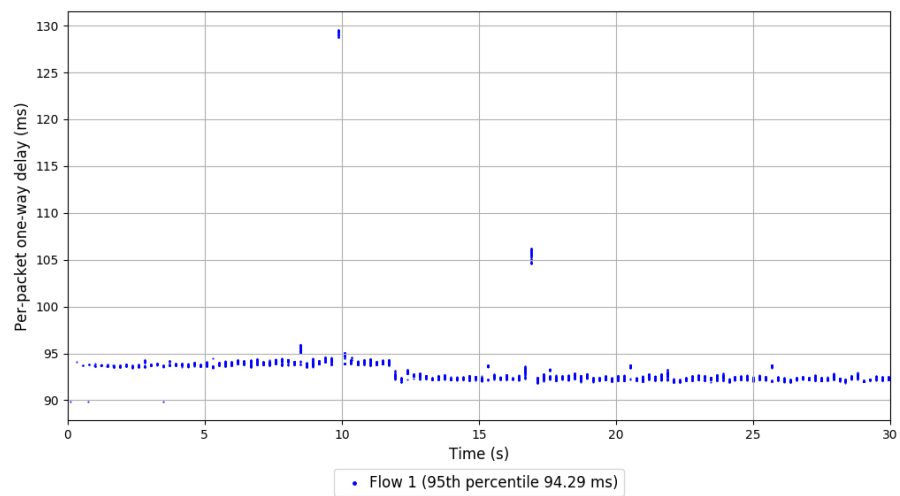
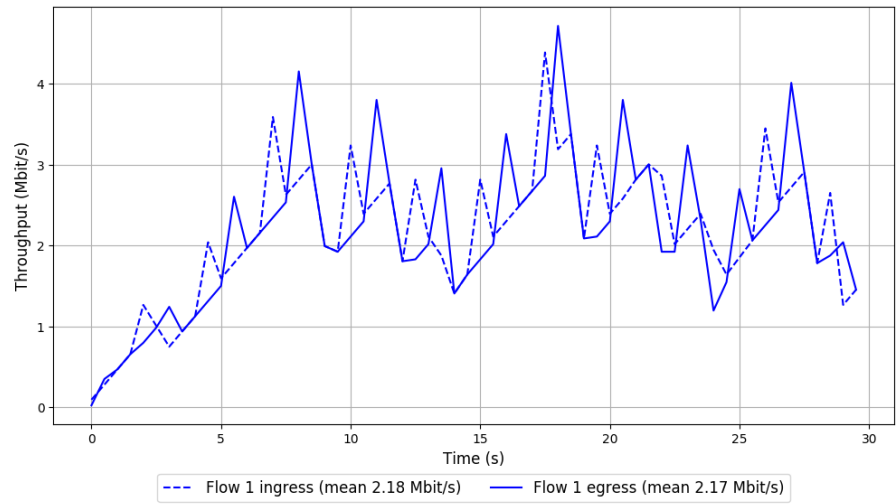
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 94.293 ms

Loss rate: 0.05%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-08 21:43:48

End at: 2018-01-08 21:44:18

Below is generated by plot.py at 2018-01-08 23:59:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 96.515 ms

Loss rate: 0.00%

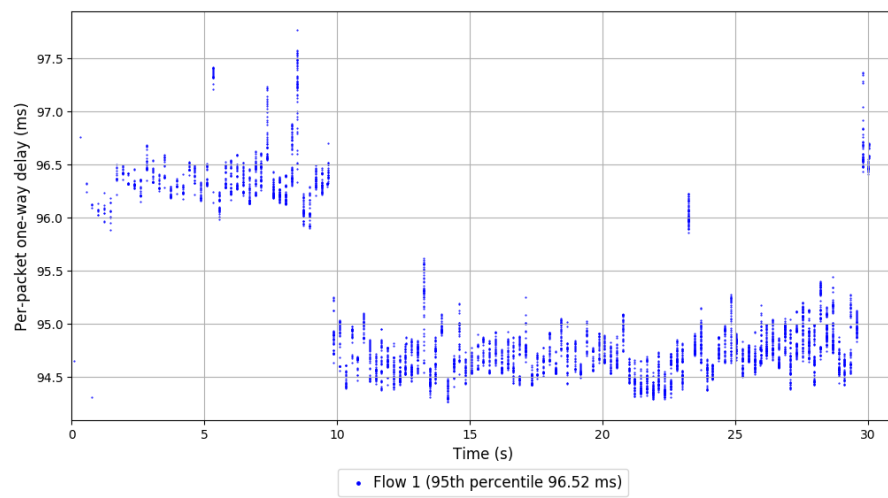
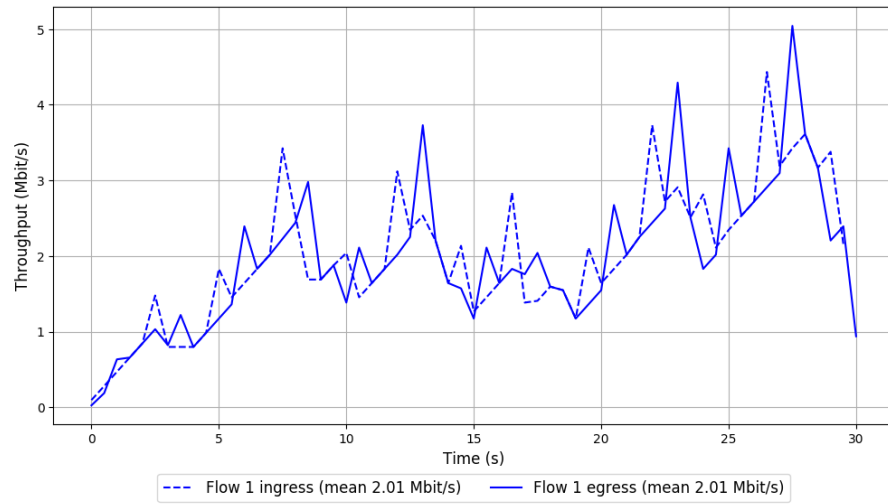
-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 96.515 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-08 21:56:25

End at: 2018-01-08 21:56:55

Below is generated by plot.py at 2018-01-08 23:59:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 100.917 ms

Loss rate: 0.02%

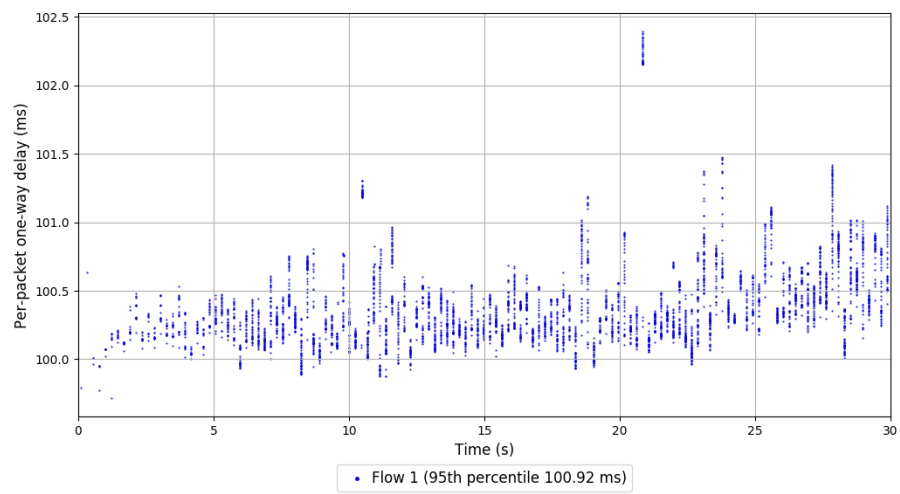
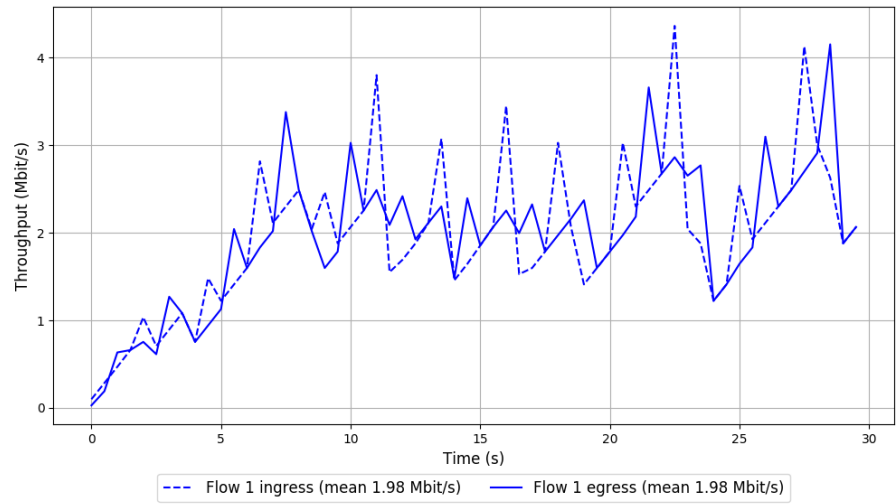
-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 100.917 ms

Loss rate: 0.02%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-08 22:08:58

End at: 2018-01-08 22:09:28

Below is generated by plot.py at 2018-01-08 23:59:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.19 Mbit/s

95th percentile per-packet one-way delay: 103.359 ms

Loss rate: 0.00%

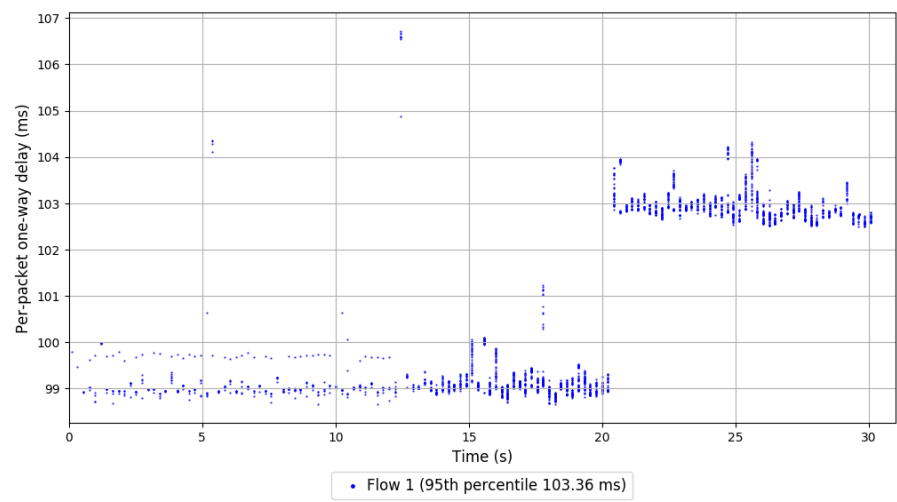
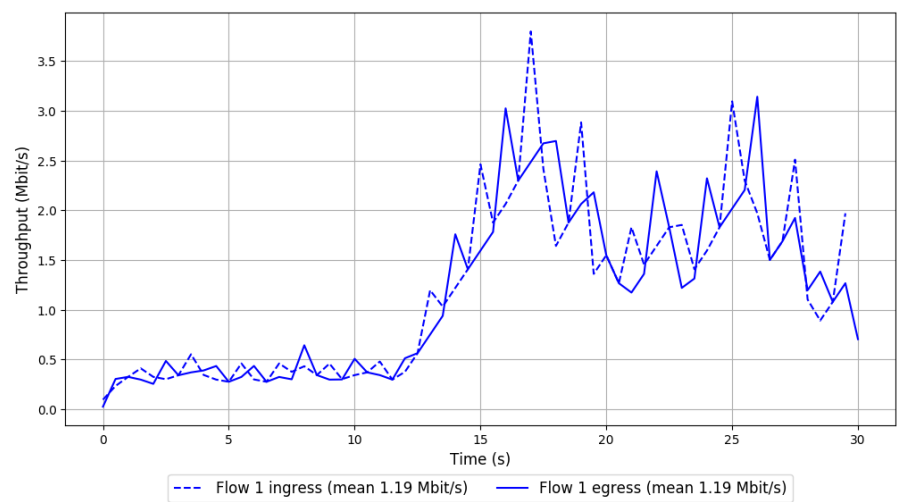
-- Flow 1:

Average throughput: 1.19 Mbit/s

95th percentile per-packet one-way delay: 103.359 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-08 22:21:21

End at: 2018-01-08 22:21:51

Below is generated by plot.py at 2018-01-08 23:59:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.18 Mbit/s

95th percentile per-packet one-way delay: 101.804 ms

Loss rate: 0.00%

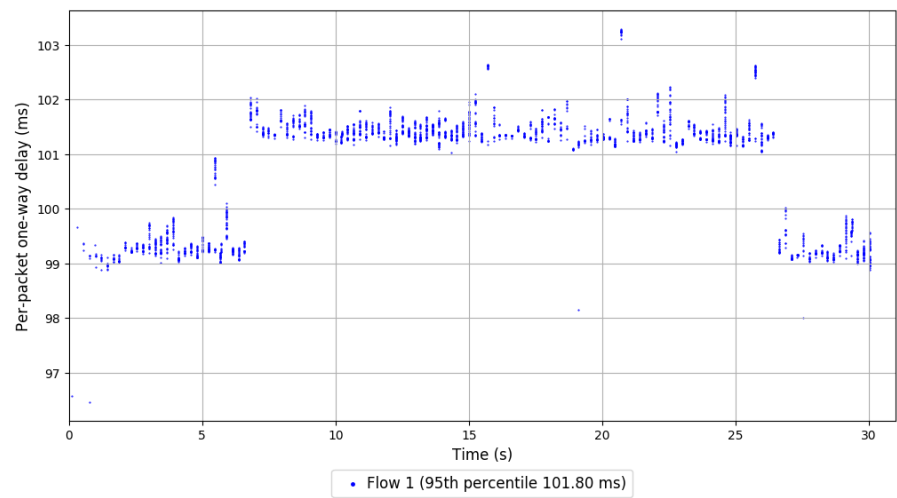
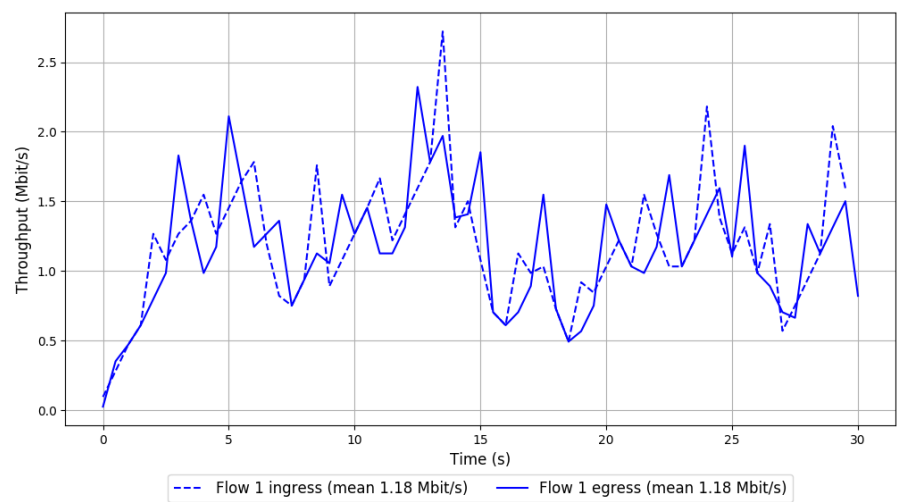
-- Flow 1:

Average throughput: 1.18 Mbit/s

95th percentile per-packet one-way delay: 101.804 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-08 22:33:42

End at: 2018-01-08 22:34:12

Below is generated by plot.py at 2018-01-08 23:59:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 100.384 ms

Loss rate: 2.05%

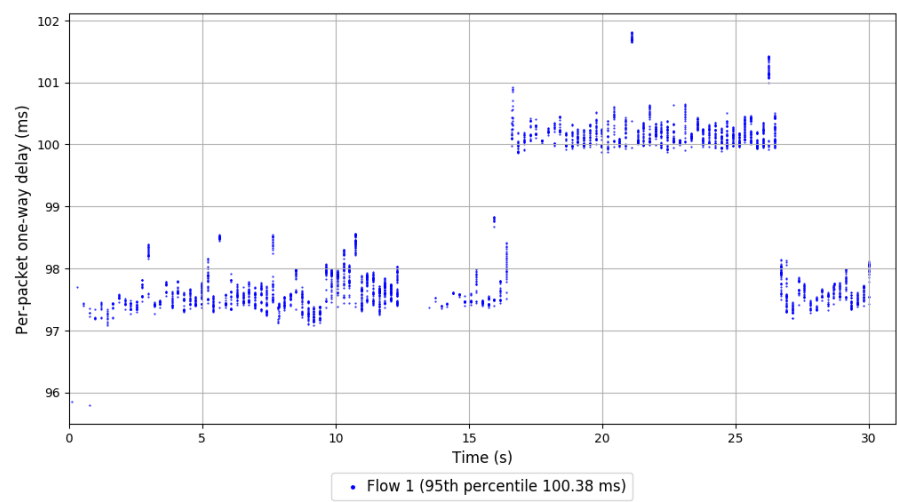
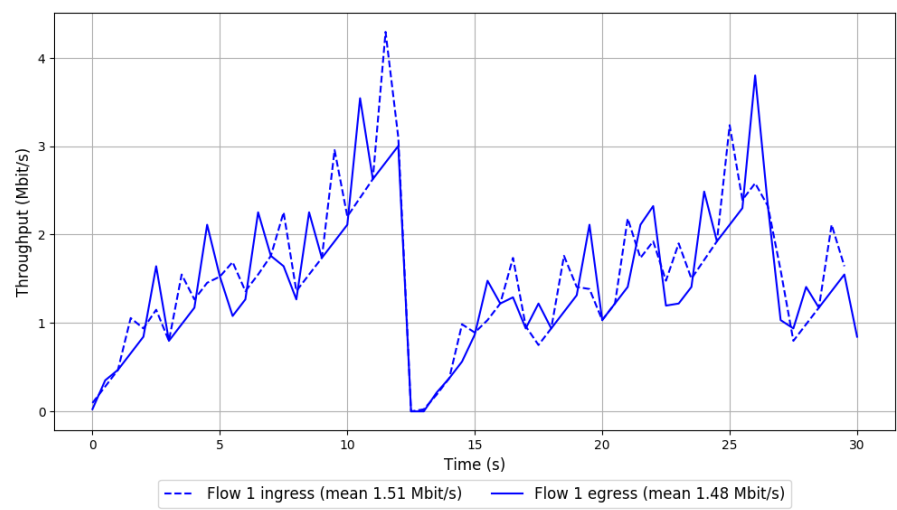
-- Flow 1:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 100.384 ms

Loss rate: 2.05%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-08 22:46:09

End at: 2018-01-08 22:46:39

Below is generated by plot.py at 2018-01-08 23:59:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.86 Mbit/s

95th percentile per-packet one-way delay: 100.695 ms

Loss rate: 0.02%

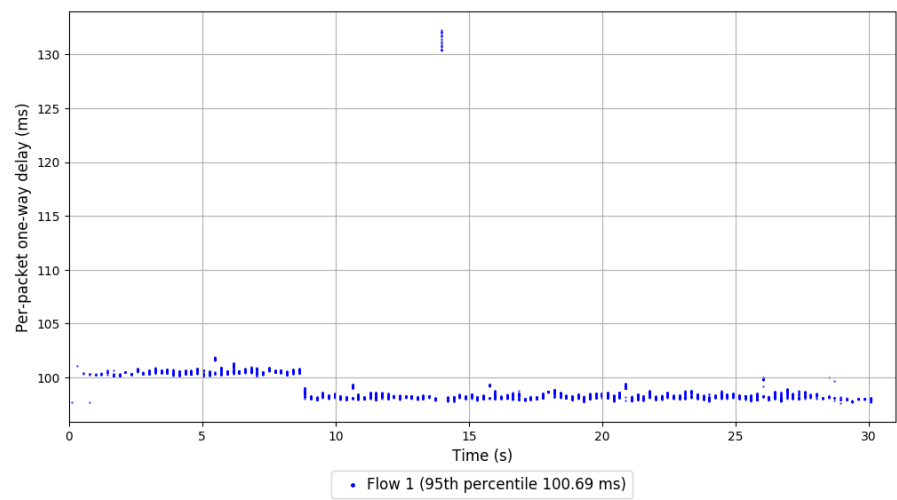
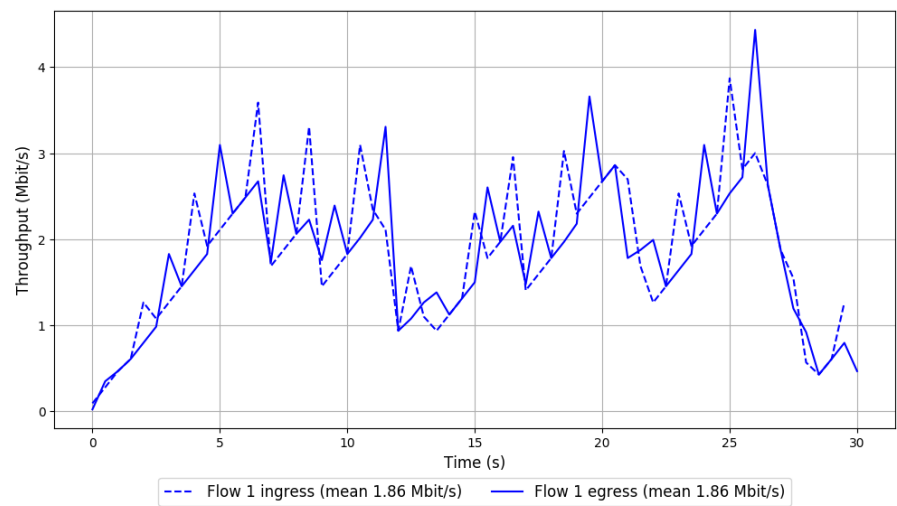
-- Flow 1:

Average throughput: 1.86 Mbit/s

95th percentile per-packet one-way delay: 100.695 ms

Loss rate: 0.02%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-08 22:58:37

End at: 2018-01-08 22:59:07

Below is generated by plot.py at 2018-01-08 23:59:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.69 Mbit/s

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

Loss rate: 0.00%

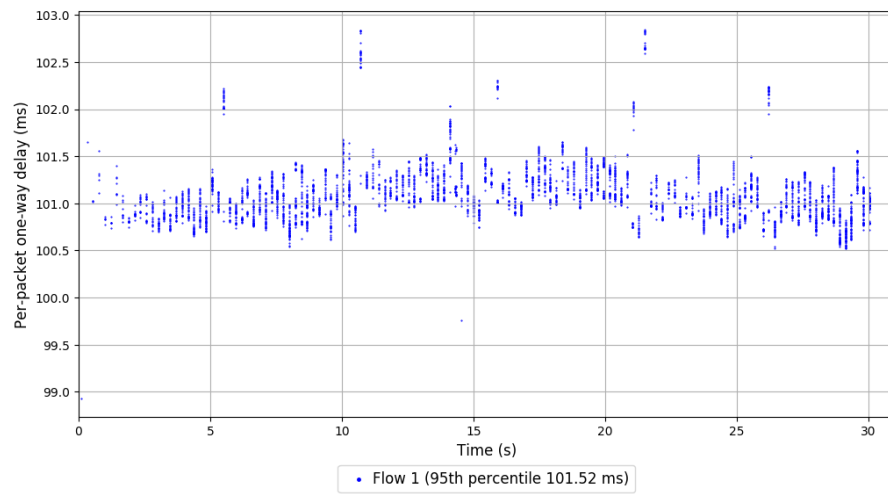
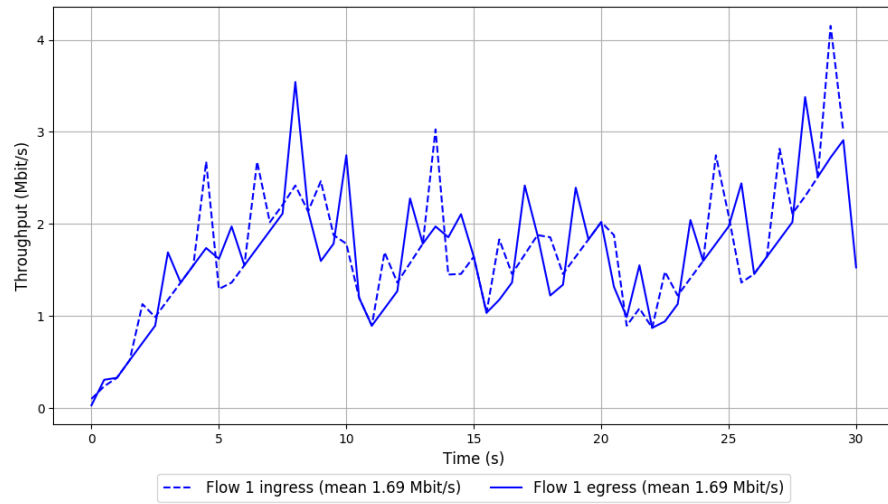
-- Flow 1:

Average throughput: 1.69 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

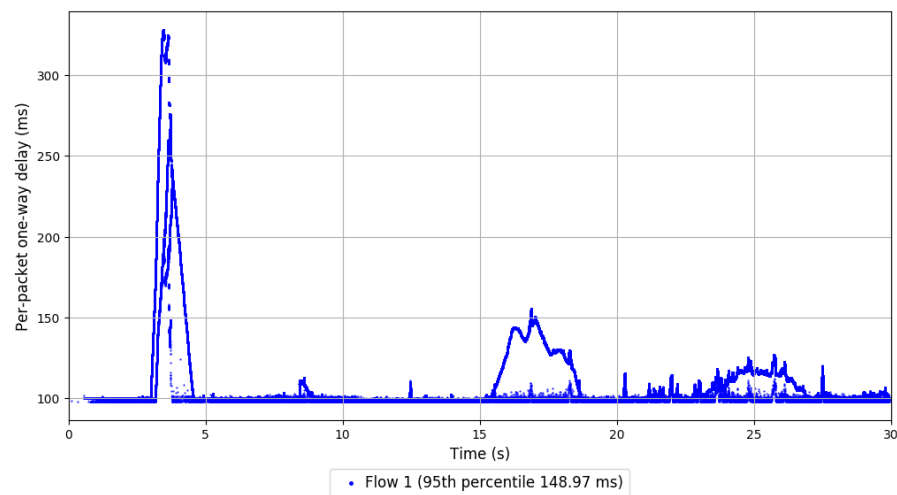
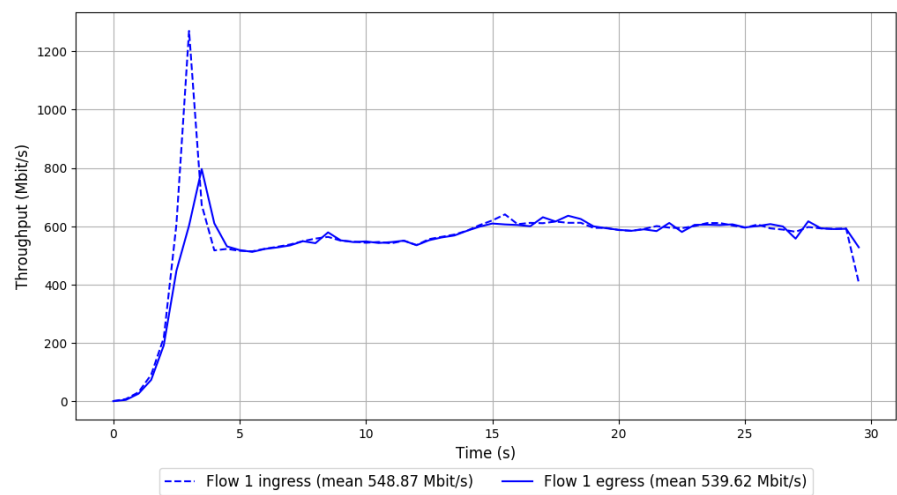


```
Run 1: Statistics of PCC

Start at: 2018-01-08 20:59:18
End at: 2018-01-08 20:59:48

# Below is generated by plot.py at 2018-01-09 00:08:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 539.62 Mbit/s
95th percentile per-packet one-way delay: 148.974 ms
Loss rate: 1.68%
-- Flow 1:
Average throughput: 539.62 Mbit/s
95th percentile per-packet one-way delay: 148.974 ms
Loss rate: 1.68%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-08 21:11:55

End at: 2018-01-08 21:12:25

Below is generated by plot.py at 2018-01-09 00:08:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 523.77 Mbit/s

95th percentile per-packet one-way delay: 215.054 ms

Loss rate: 2.05%

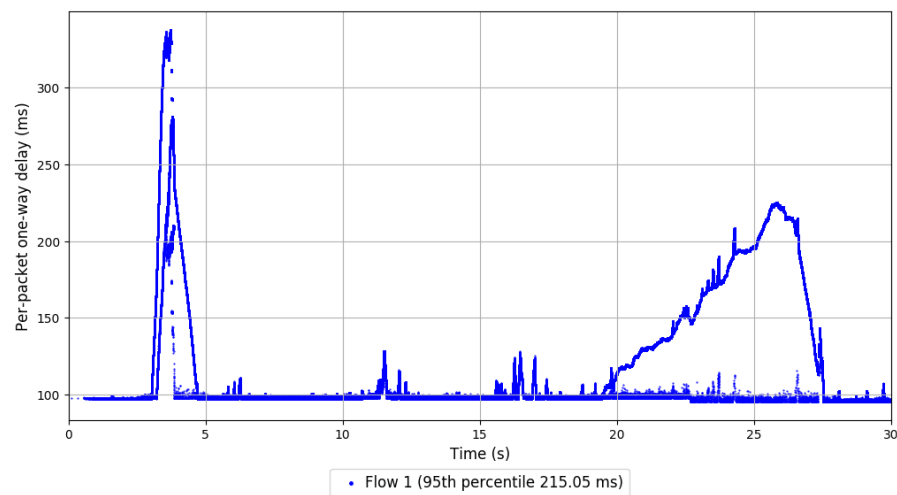
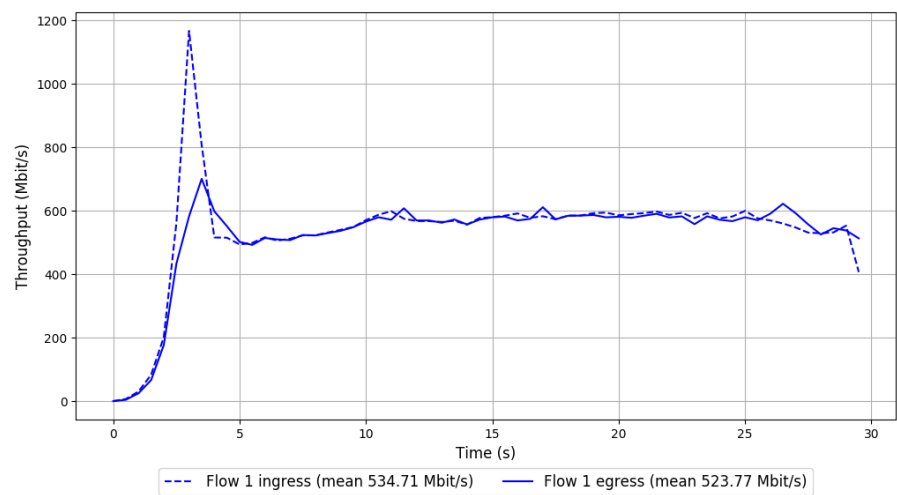
-- Flow 1:

Average throughput: 523.77 Mbit/s

95th percentile per-packet one-way delay: 215.054 ms

Loss rate: 2.05%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-08 21:24:10

End at: 2018-01-08 21:24:40

Below is generated by plot.py at 2018-01-09 00:08:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 519.15 Mbit/s

95th percentile per-packet one-way delay: 126.115 ms

Loss rate: 0.78%

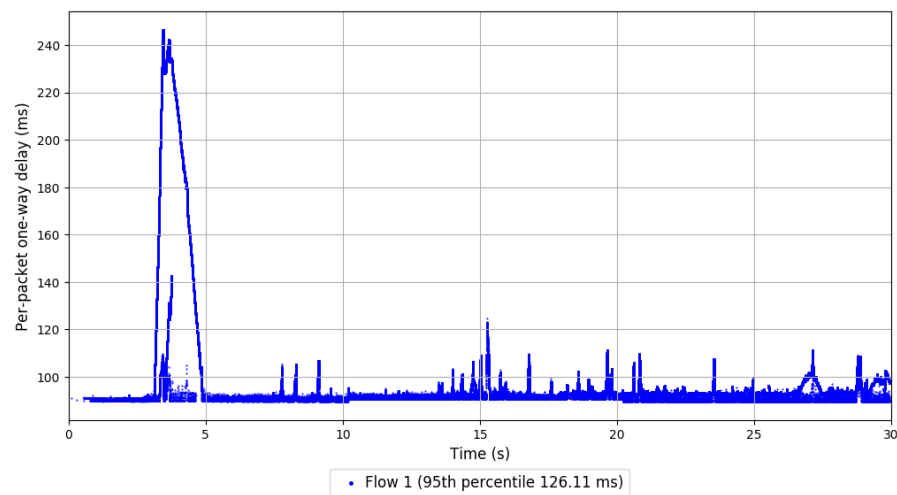
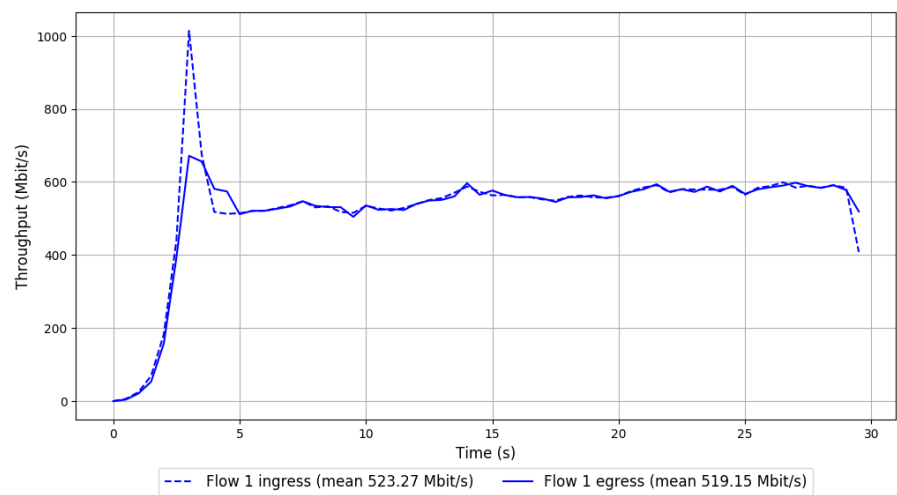
-- Flow 1:

Average throughput: 519.15 Mbit/s

95th percentile per-packet one-way delay: 126.115 ms

Loss rate: 0.78%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-08 21:36:37

End at: 2018-01-08 21:37:07

Below is generated by plot.py at 2018-01-09 00:08:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 493.04 Mbit/s

95th percentile per-packet one-way delay: 160.480 ms

Loss rate: 1.15%

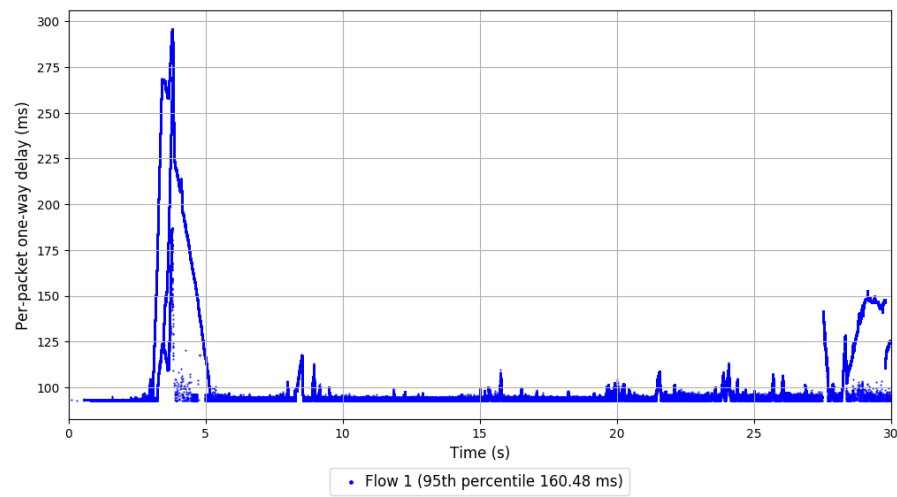
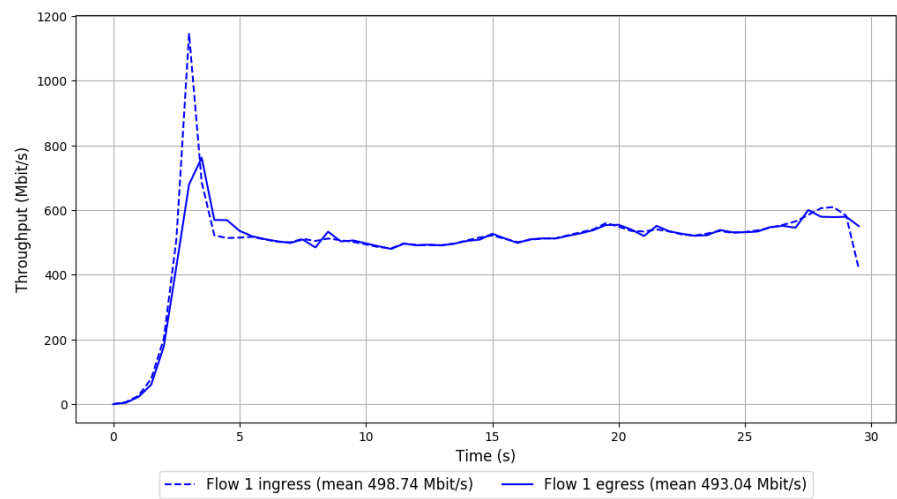
-- Flow 1:

Average throughput: 493.04 Mbit/s

95th percentile per-packet one-way delay: 160.480 ms

Loss rate: 1.15%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-08 21:49:10

End at: 2018-01-08 21:49:40

Below is generated by plot.py at 2018-01-09 00:08:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 526.29 Mbit/s

95th percentile per-packet one-way delay: 137.613 ms

Loss rate: 1.88%

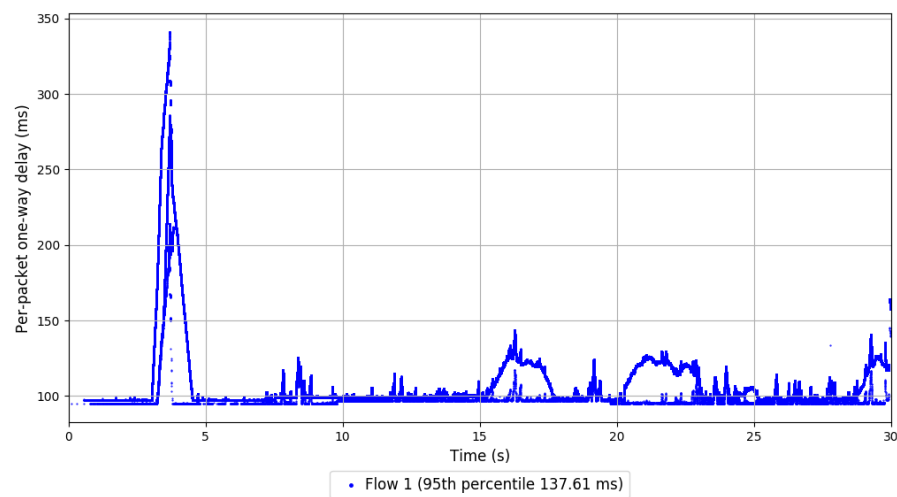
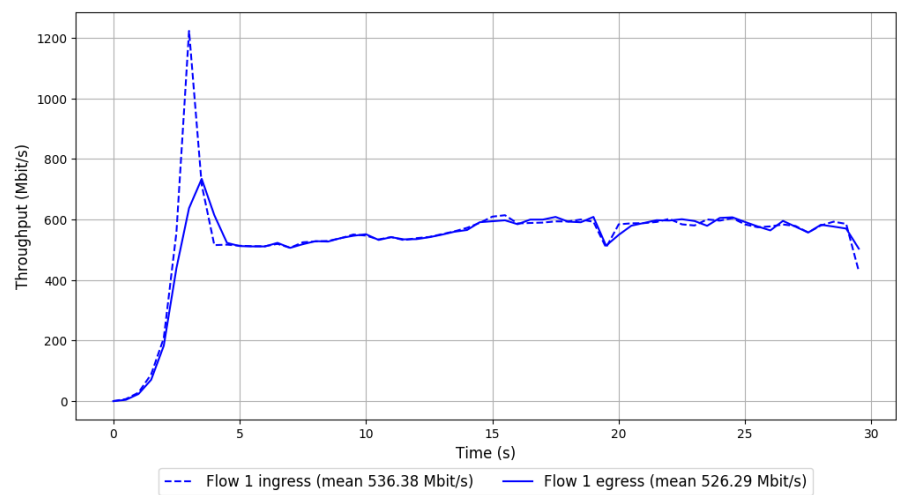
-- Flow 1:

Average throughput: 526.29 Mbit/s

95th percentile per-packet one-way delay: 137.613 ms

Loss rate: 1.88%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-08 22:01:42

End at: 2018-01-08 22:02:12

Below is generated by plot.py at 2018-01-09 00:08:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 517.33 Mbit/s

95th percentile per-packet one-way delay: 146.390 ms

Loss rate: 1.64%

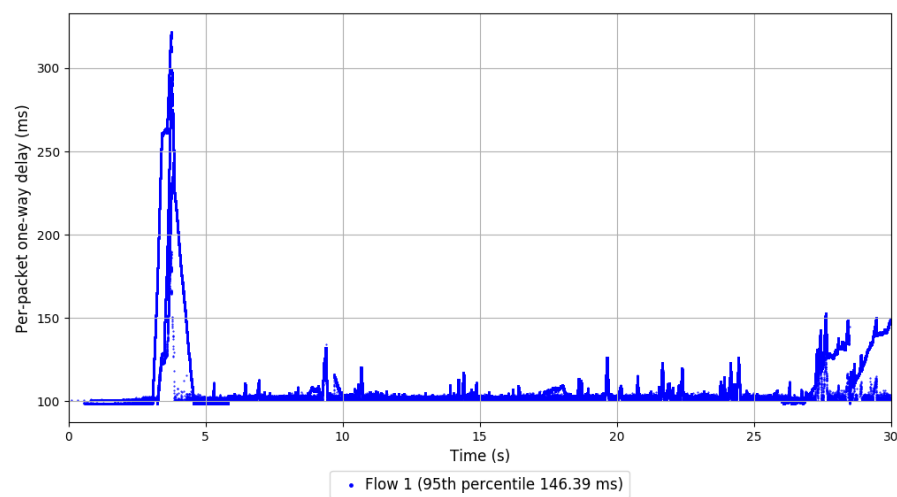
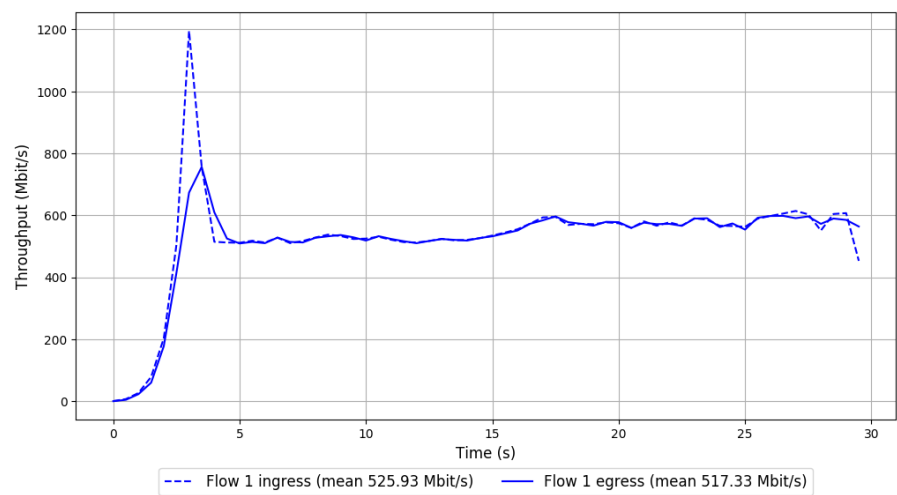
-- Flow 1:

Average throughput: 517.33 Mbit/s

95th percentile per-packet one-way delay: 146.390 ms

Loss rate: 1.64%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-08 22:14:21

End at: 2018-01-08 22:14:51

Below is generated by plot.py at 2018-01-09 00:08:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 510.84 Mbit/s

95th percentile per-packet one-way delay: 146.705 ms

Loss rate: 1.40%

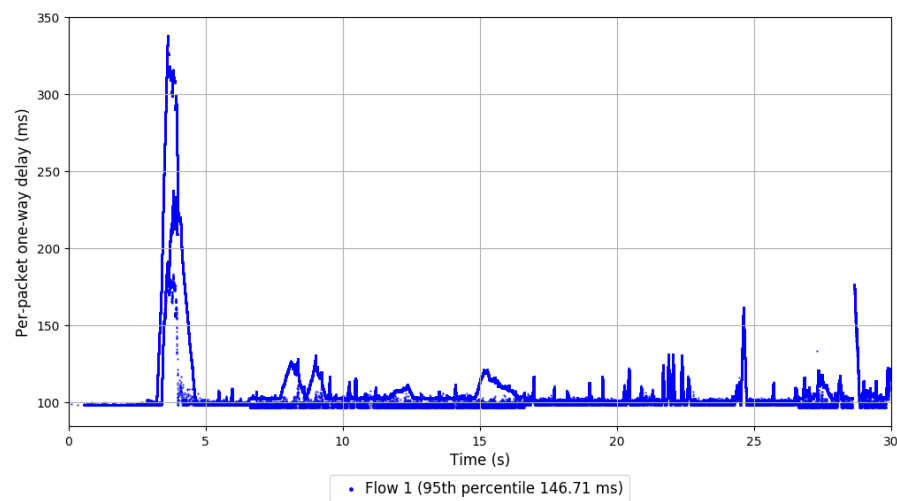
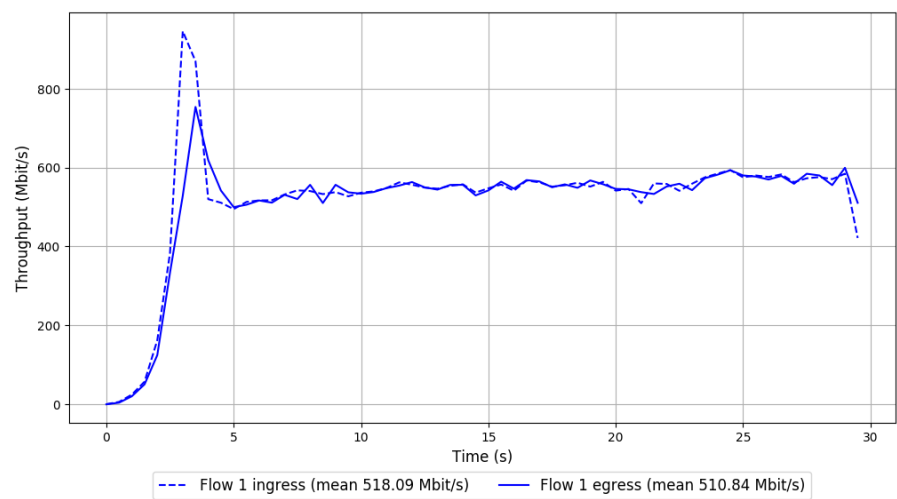
-- Flow 1:

Average throughput: 510.84 Mbit/s

95th percentile per-packet one-way delay: 146.705 ms

Loss rate: 1.40%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-08 22:26:29

End at: 2018-01-08 22:26:59

Below is generated by plot.py at 2018-01-09 00:09:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 509.34 Mbit/s

95th percentile per-packet one-way delay: 184.061 ms

Loss rate: 1.23%

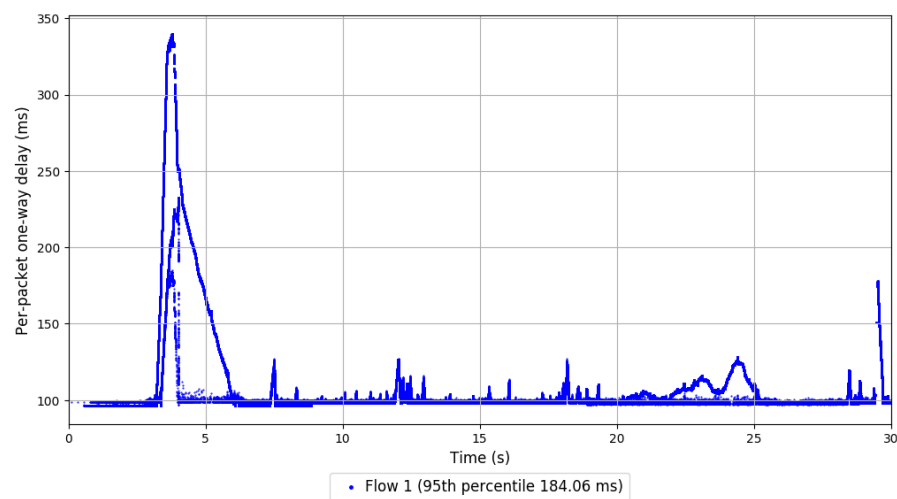
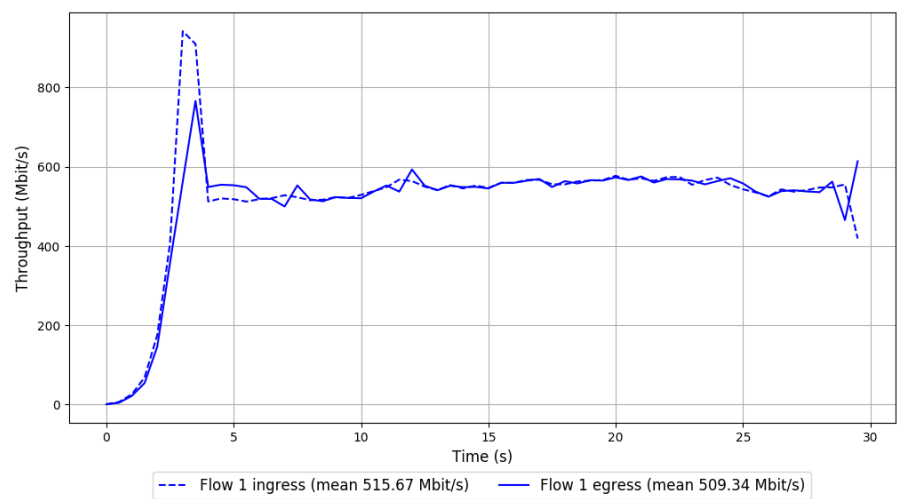
-- Flow 1:

Average throughput: 509.34 Mbit/s

95th percentile per-packet one-way delay: 184.061 ms

Loss rate: 1.23%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-08 22:38:50

End at: 2018-01-08 22:39:20

Below is generated by plot.py at 2018-01-09 00:17:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 504.82 Mbit/s

95th percentile per-packet one-way delay: 134.576 ms

Loss rate: 2.07%

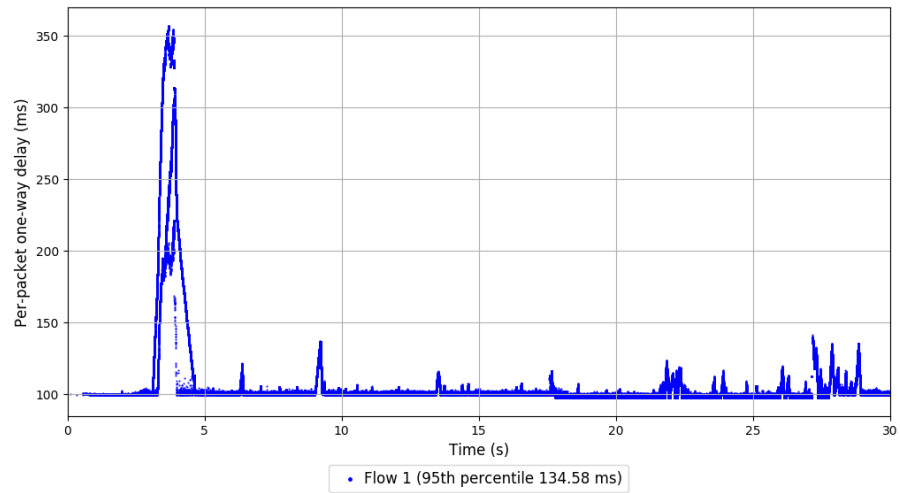
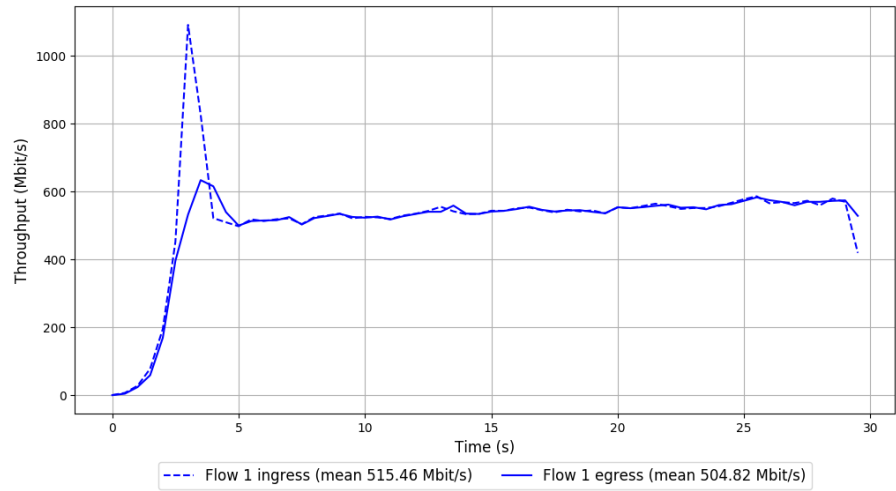
-- Flow 1:

Average throughput: 504.82 Mbit/s

95th percentile per-packet one-way delay: 134.576 ms

Loss rate: 2.07%

Run 9: Report of PCC — Data Link

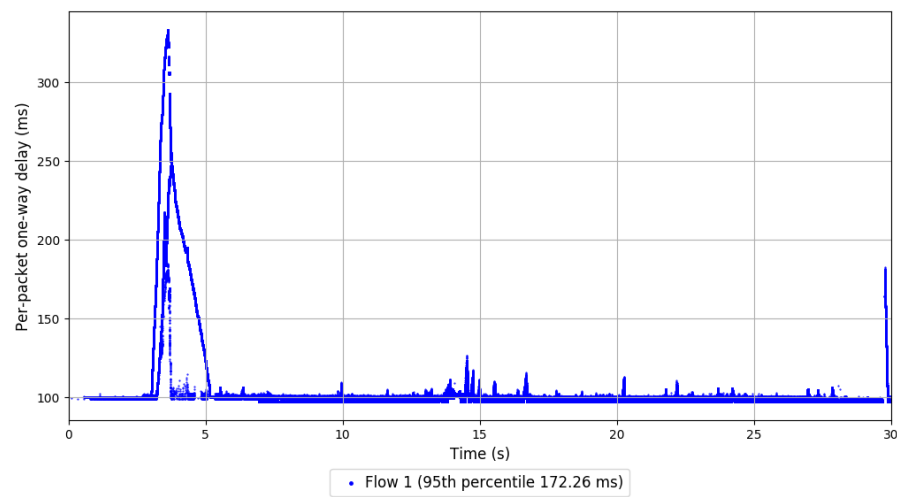
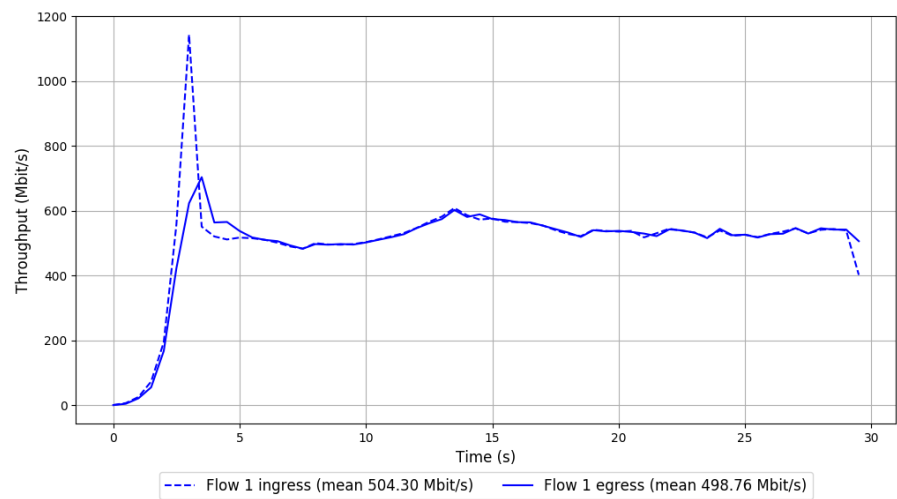


```
Run 10: Statistics of PCC

Start at: 2018-01-08 22:51:21
End at: 2018-01-08 22:51:51

# Below is generated by plot.py at 2018-01-09 00:17:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 498.76 Mbit/s
95th percentile per-packet one-way delay: 172.262 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 498.76 Mbit/s
95th percentile per-packet one-way delay: 172.262 ms
Loss rate: 1.11%
```

Run 10: Report of PCC — Data Link

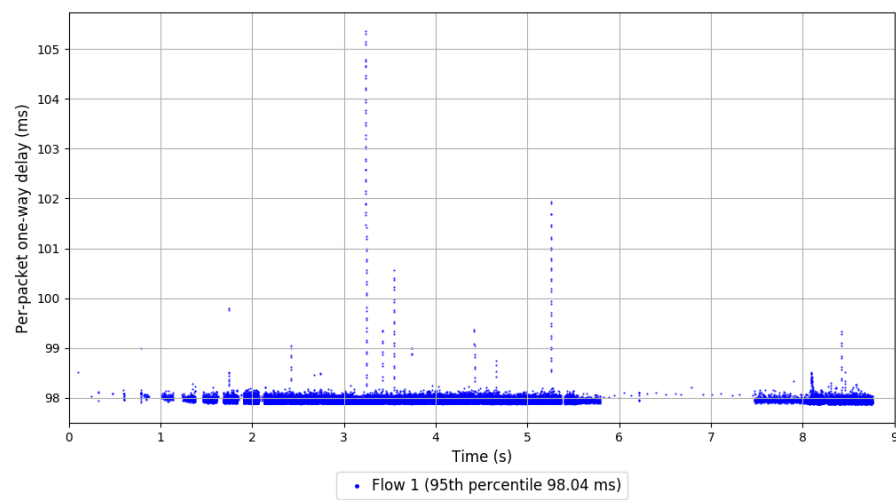
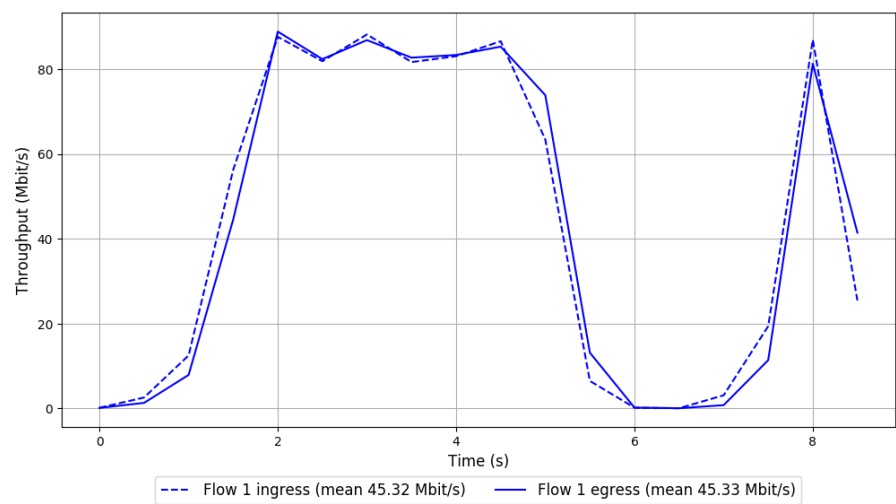


Run 1: Statistics of QUIC Cubic

Start at: 2018-01-08 21:00:21

End at: 2018-01-08 21:00:51

Run 1: Report of QUIC Cubic — Data Link

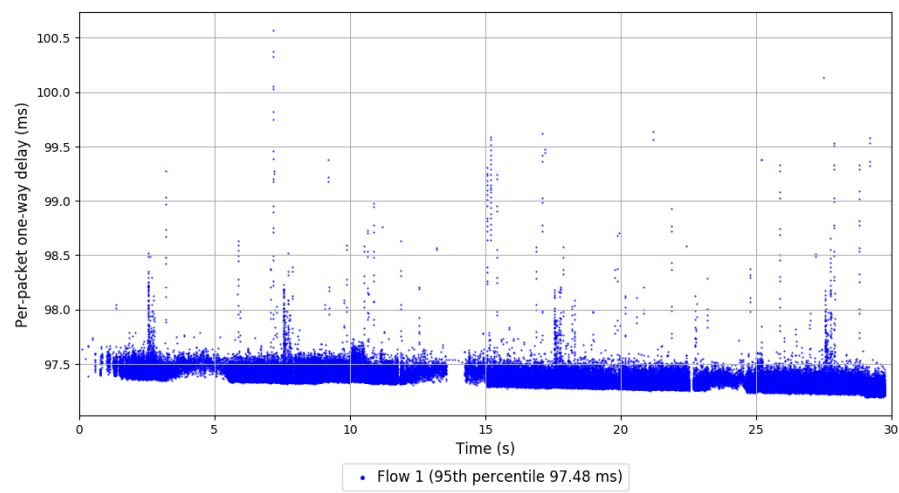
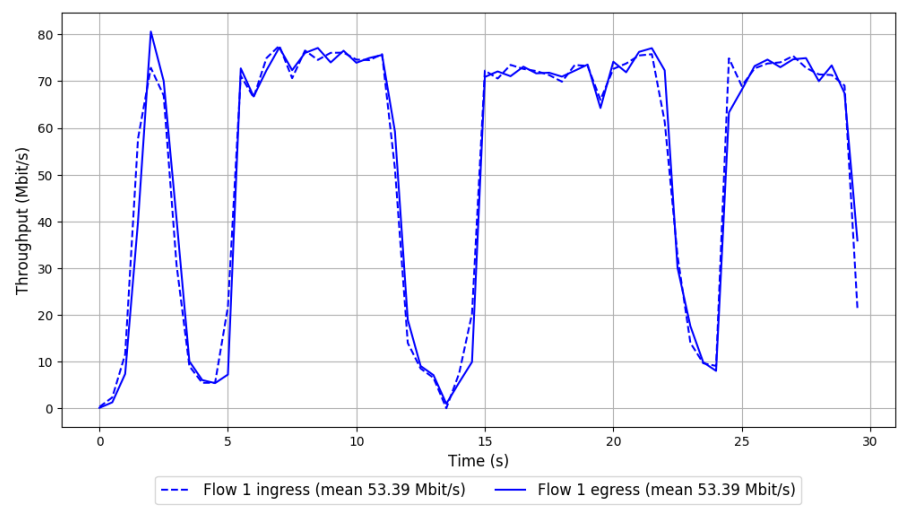


```
Run 2: Statistics of QUIC Cubic

Start at: 2018-01-08 21:12:59
End at: 2018-01-08 21:13:29

# Below is generated by plot.py at 2018-01-09 00:17:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.39 Mbit/s
95th percentile per-packet one-way delay: 97.483 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 53.39 Mbit/s
95th percentile per-packet one-way delay: 97.483 ms
Loss rate: 0.00%
```

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-08 21:25:13

End at: 2018-01-08 21:25:43

Below is generated by plot.py at 2018-01-09 00:17:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.03 Mbit/s

95th percentile per-packet one-way delay: 92.106 ms

Loss rate: 0.00%

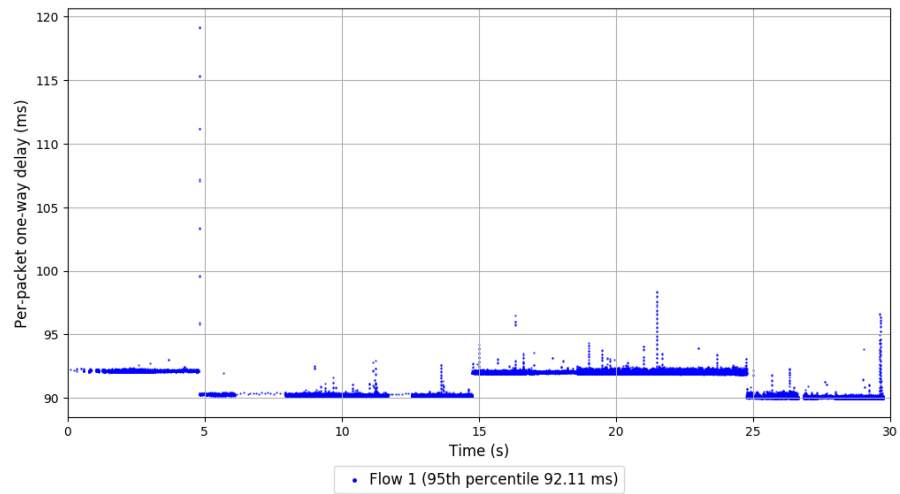
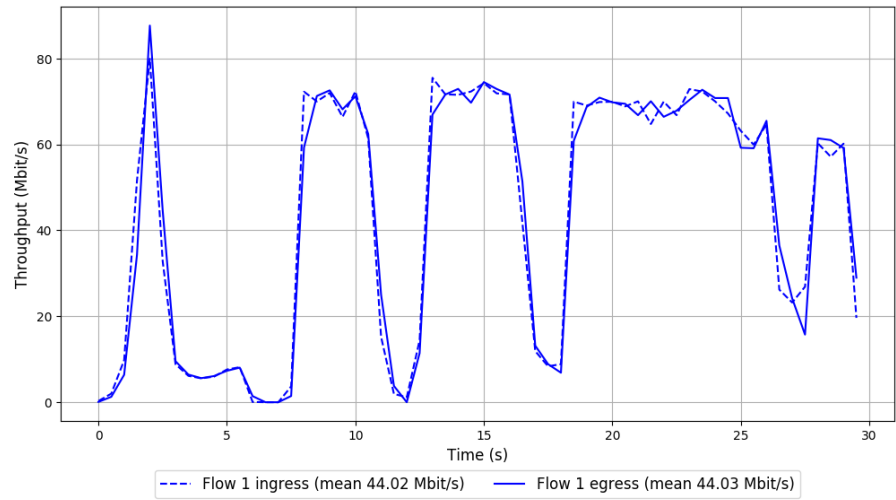
-- Flow 1:

Average throughput: 44.03 Mbit/s

95th percentile per-packet one-way delay: 92.106 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-08 21:37:38

End at: 2018-01-08 21:38:08

Below is generated by plot.py at 2018-01-09 00:17:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.69 Mbit/s

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

Loss rate: 0.00%

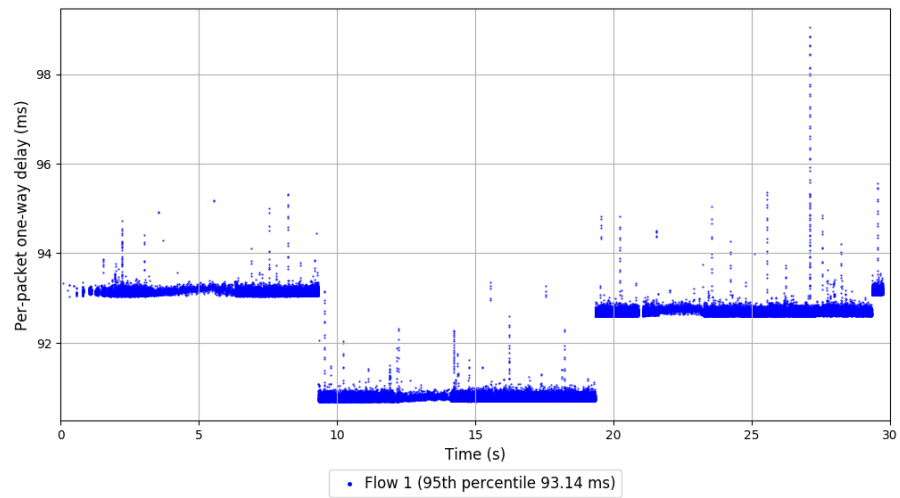
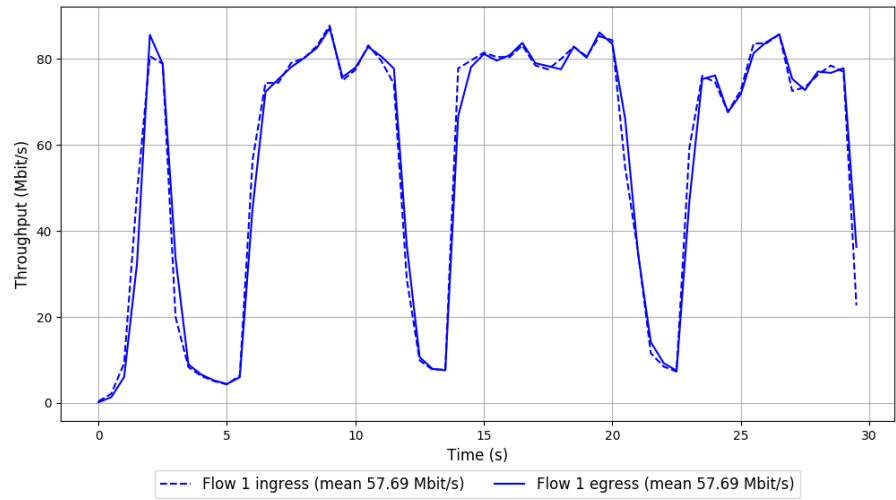
-- Flow 1:

Average throughput: 57.69 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-08 21:50:14

End at: 2018-01-08 21:50:44

Below is generated by plot.py at 2018-01-09 00:17:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.91 Mbit/s

95th percentile per-packet one-way delay: 97.984 ms

Loss rate: 0.00%

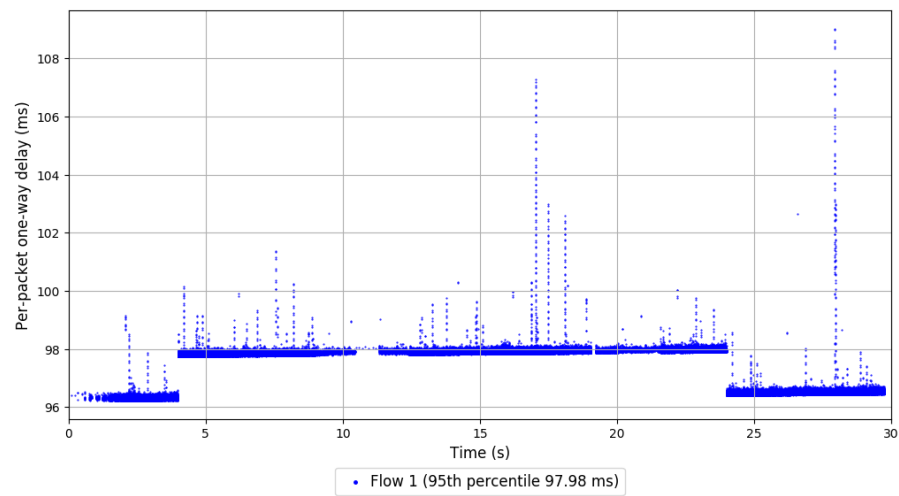
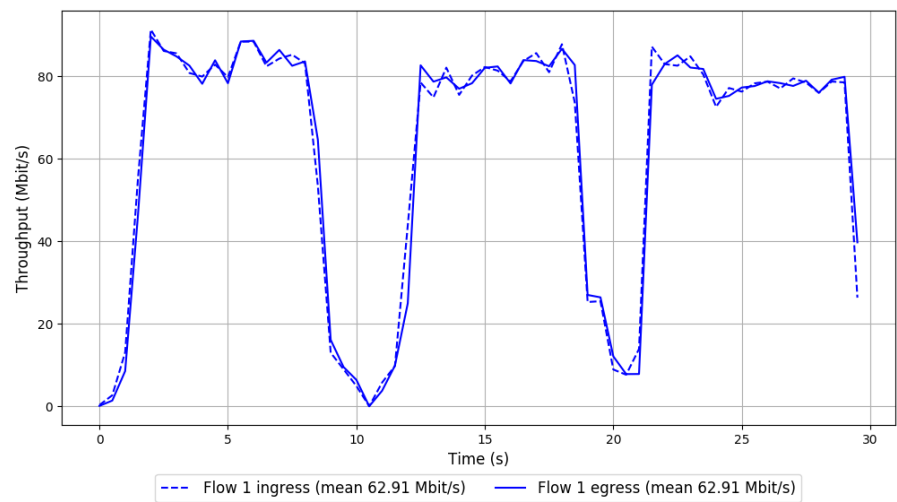
-- Flow 1:

Average throughput: 62.91 Mbit/s

95th percentile per-packet one-way delay: 97.984 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-08 22:02:44

End at: 2018-01-08 22:03:14

Below is generated by plot.py at 2018-01-09 00:17:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.22 Mbit/s

95th percentile per-packet one-way delay: 101.021 ms

Loss rate: 0.00%

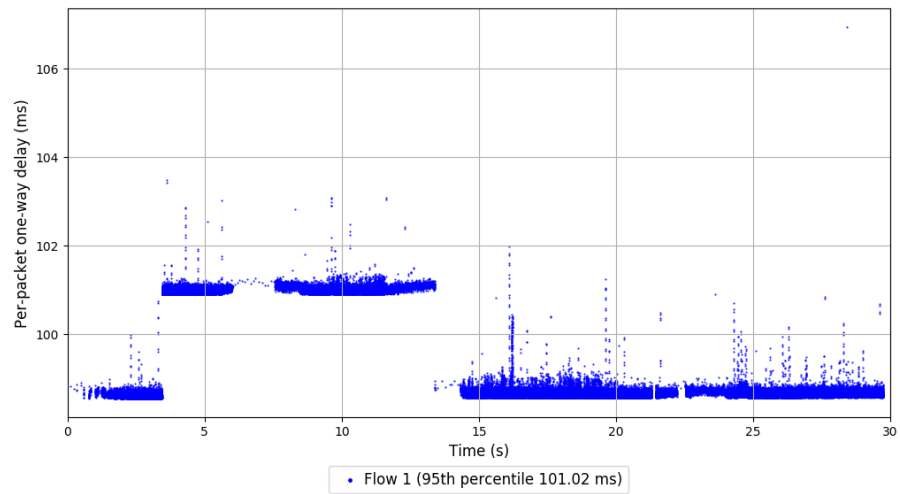
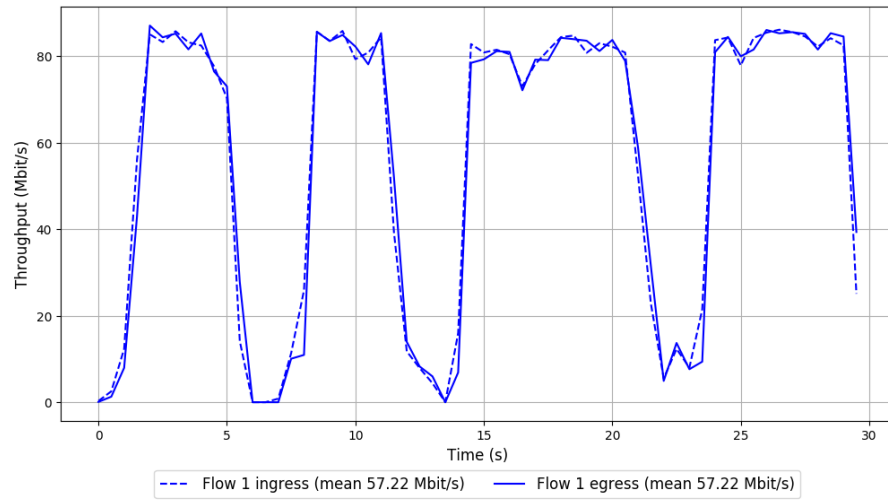
-- Flow 1:

Average throughput: 57.22 Mbit/s

95th percentile per-packet one-way delay: 101.021 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-08 22:15:24

End at: 2018-01-08 22:15:54

Below is generated by plot.py at 2018-01-09 00:17:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.24 Mbit/s

95th percentile per-packet one-way delay: 100.475 ms

Loss rate: 0.00%

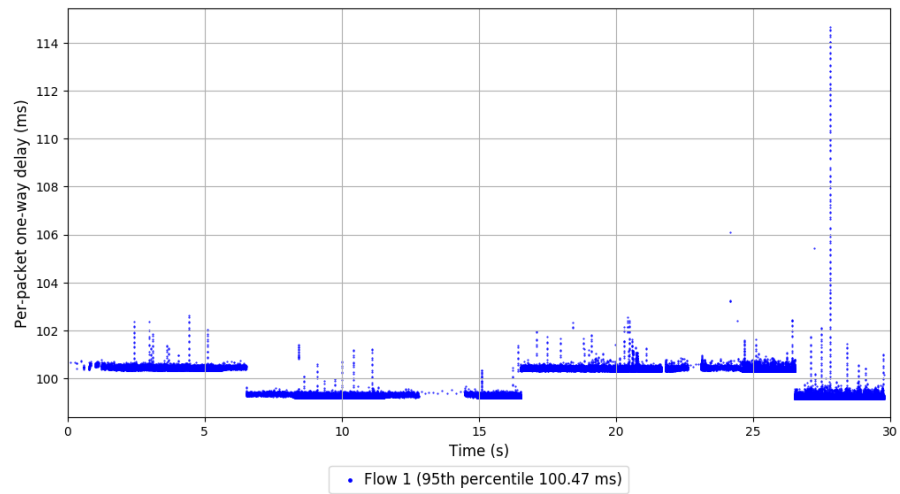
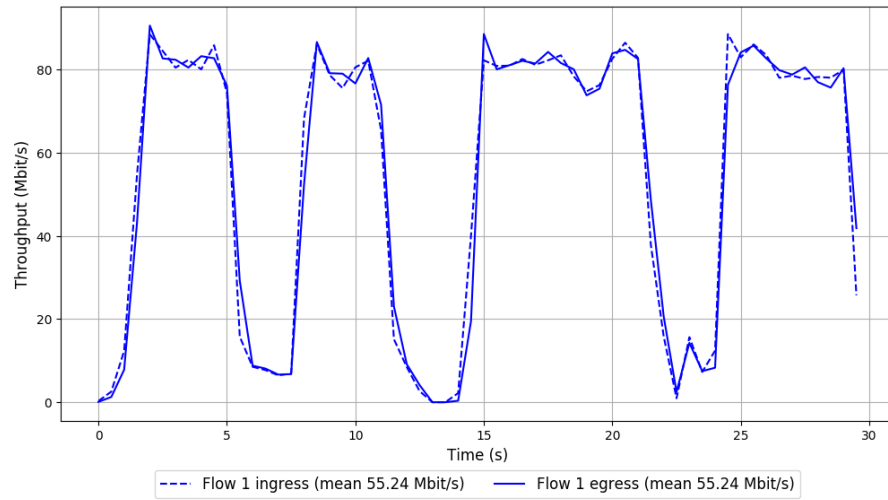
-- Flow 1:

Average throughput: 55.24 Mbit/s

95th percentile per-packet one-way delay: 100.475 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-01-08 22:27:31

End at: 2018-01-08 22:28:01

Below is generated by plot.py at 2018-01-09 00:17:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.88 Mbit/s

95th percentile per-packet one-way delay: 98.484 ms

Loss rate: 0.01%

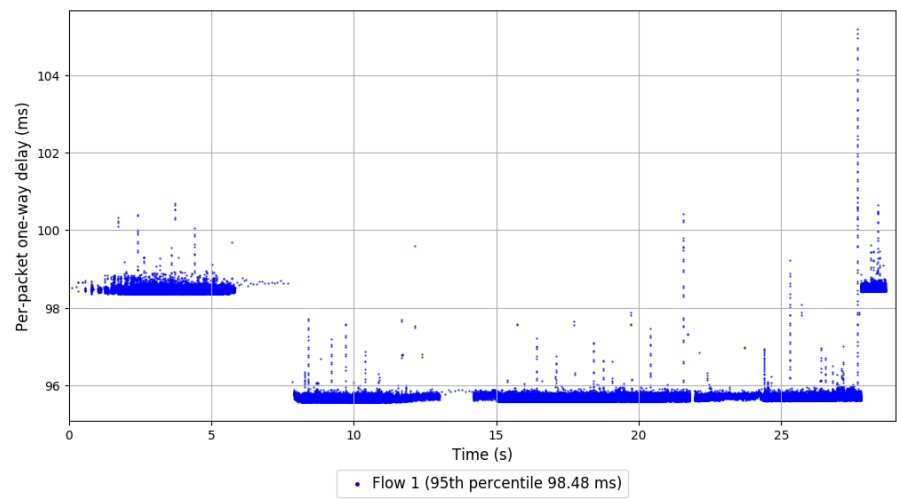
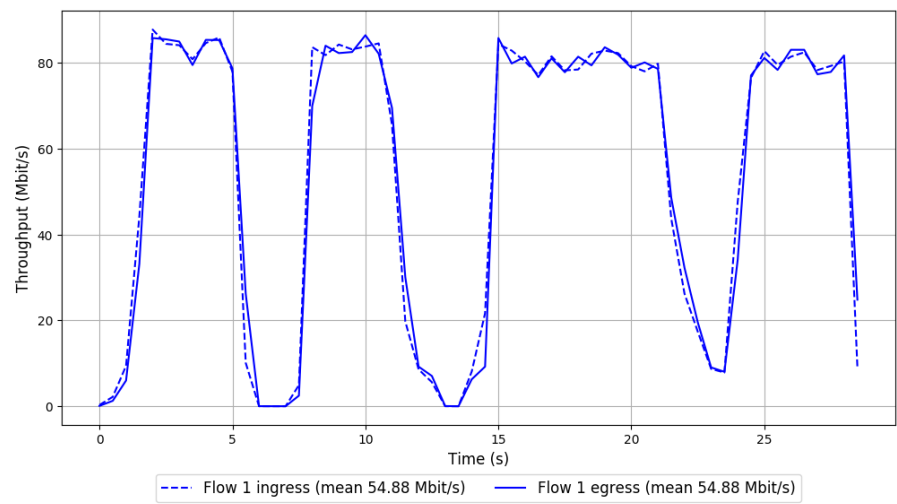
-- Flow 1:

Average throughput: 54.88 Mbit/s

95th percentile per-packet one-way delay: 98.484 ms

Loss rate: 0.01%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-08 22:39:53

End at: 2018-01-08 22:40:23

Below is generated by plot.py at 2018-01-09 00:17:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.05 Mbit/s

95th percentile per-packet one-way delay: 99.520 ms

Loss rate: 0.01%

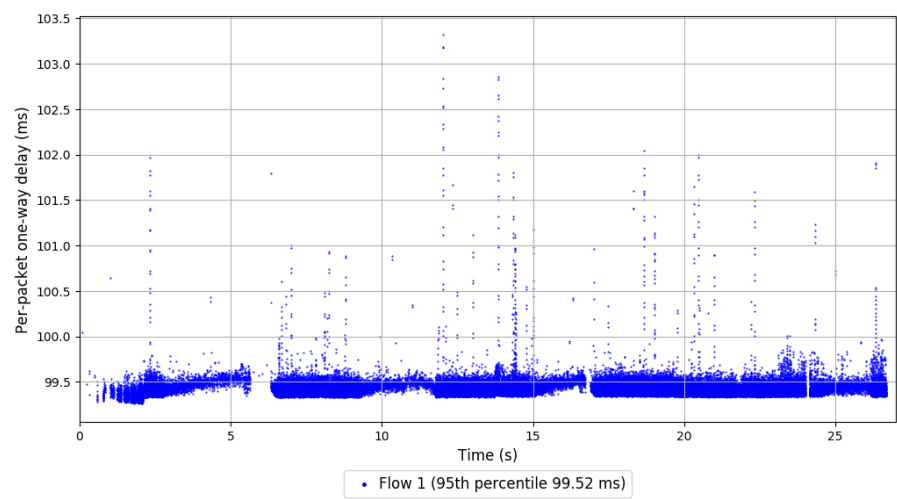
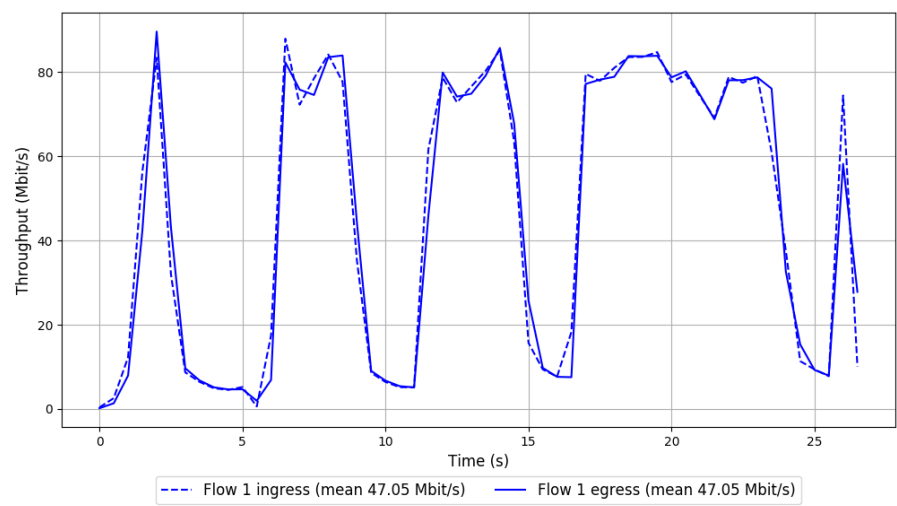
-- Flow 1:

Average throughput: 47.05 Mbit/s

95th percentile per-packet one-way delay: 99.520 ms

Loss rate: 0.01%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-01-08 22:52:24

End at: 2018-01-08 22:52:54

Below is generated by plot.py at 2018-01-09 00:17:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.81 Mbit/s

95th percentile per-packet one-way delay: 99.386 ms

Loss rate: 0.00%

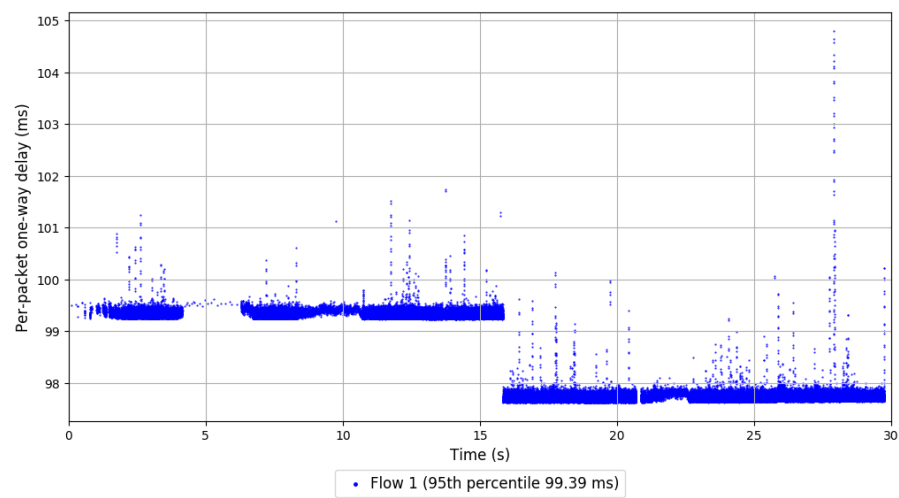
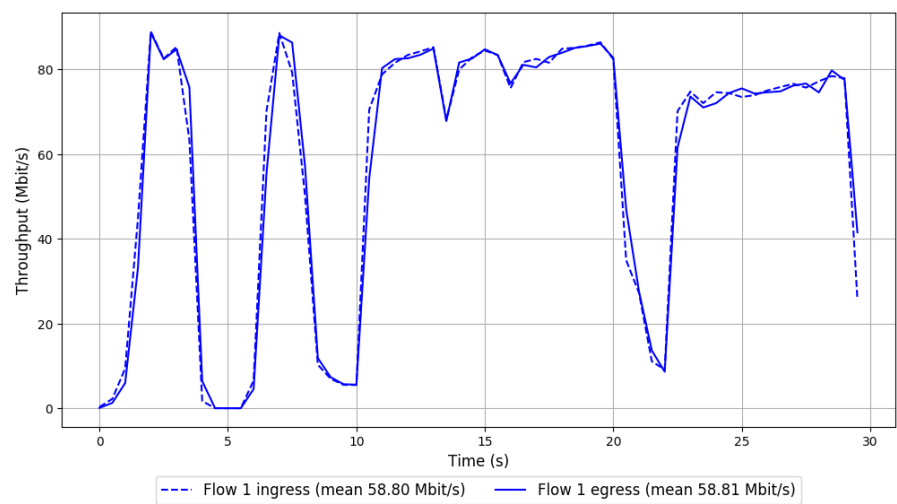
-- Flow 1:

Average throughput: 58.81 Mbit/s

95th percentile per-packet one-way delay: 99.386 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

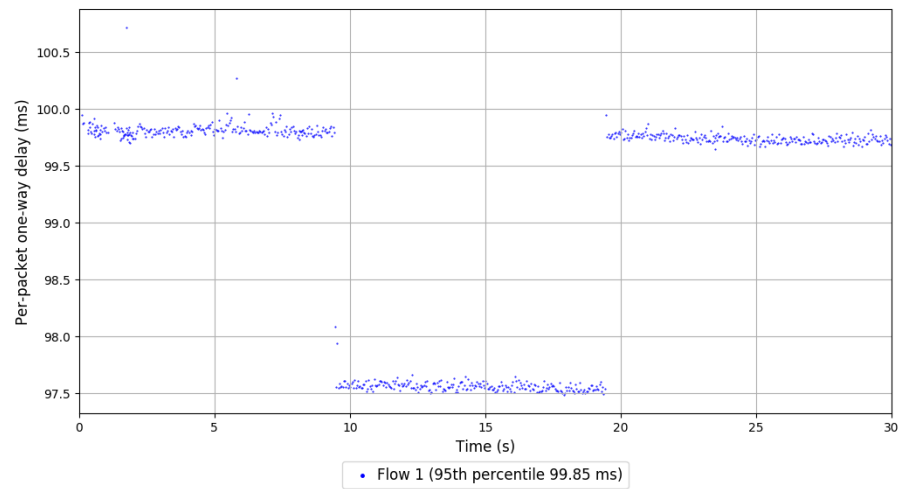
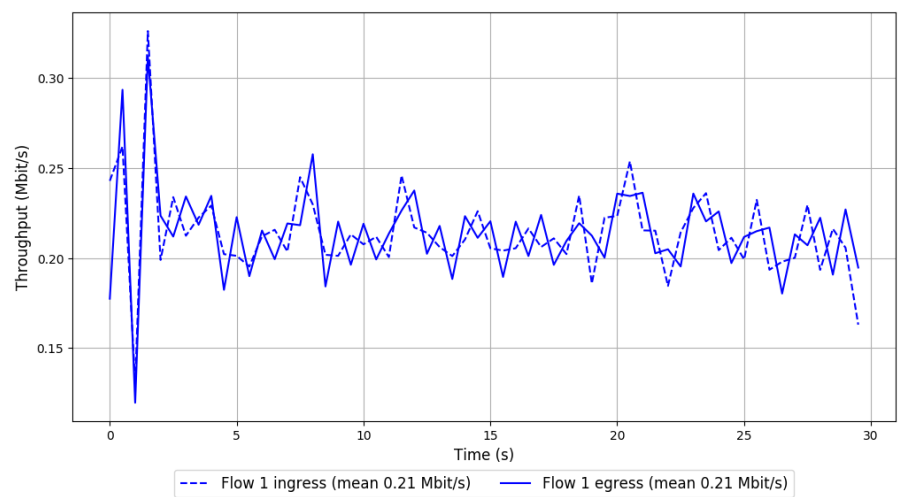


```
Run 1: Statistics of SCReAM

Start at: 2018-01-08 21:04:29
End at: 2018-01-08 21:04:59

# Below is generated by plot.py at 2018-01-09 00:17:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 99.849 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 99.849 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

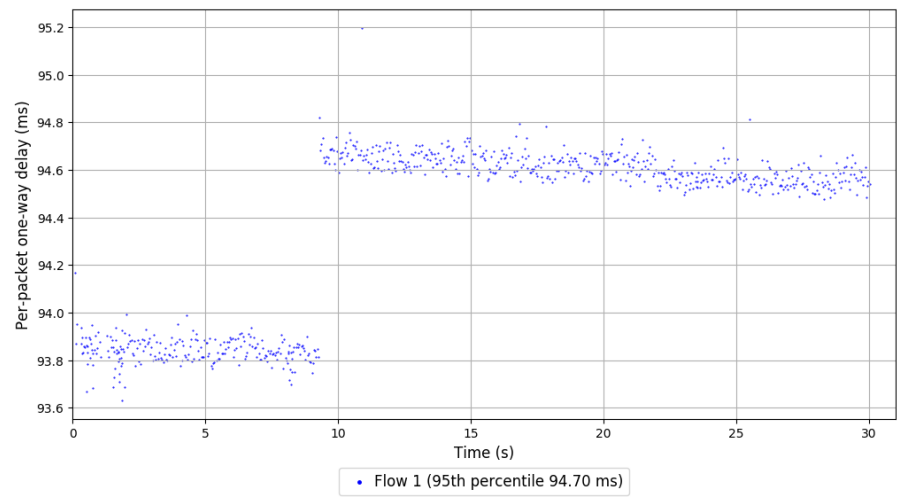
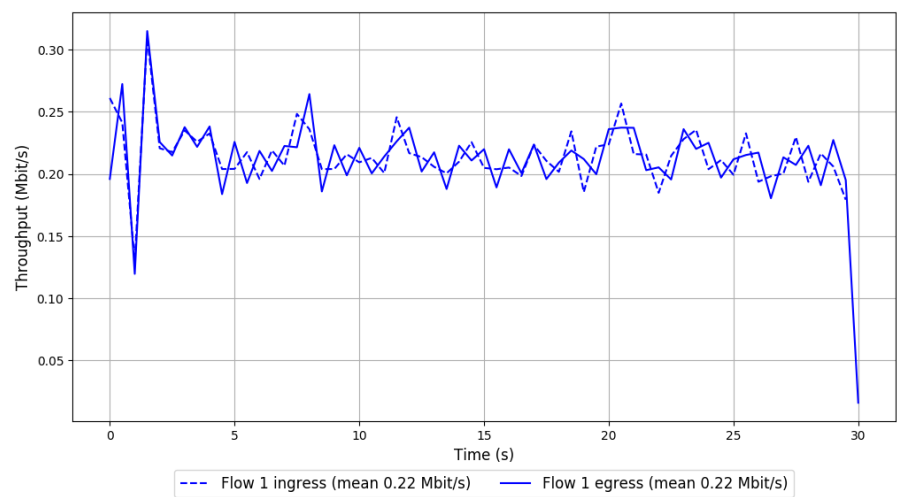


```
Run 2: Statistics of SCReAM

Start at: 2018-01-08 21:17:09
End at: 2018-01-08 21:17:39

# Below is generated by plot.py at 2018-01-09 00:17:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 94.698 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 94.698 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-01-08 21:29:20

End at: 2018-01-08 21:29:50

Below is generated by plot.py at 2018-01-09 00:17:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 91.523 ms

Loss rate: 0.00%

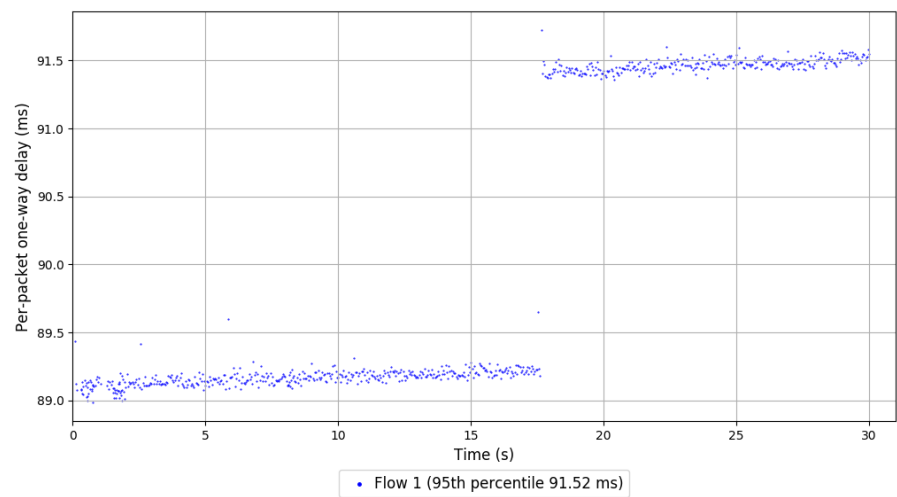
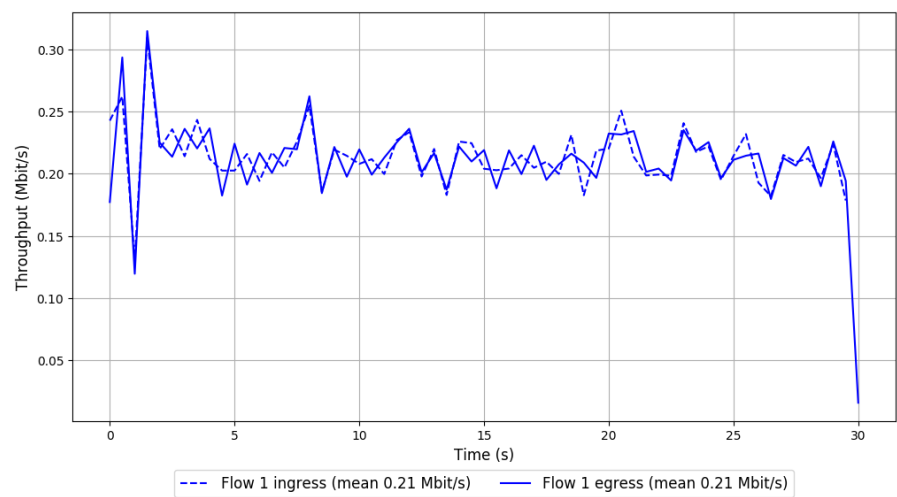
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 91.523 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-01-08 21:41:41

End at: 2018-01-08 21:42:11

Below is generated by plot.py at 2018-01-09 00:17:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 93.531 ms

Loss rate: 0.00%

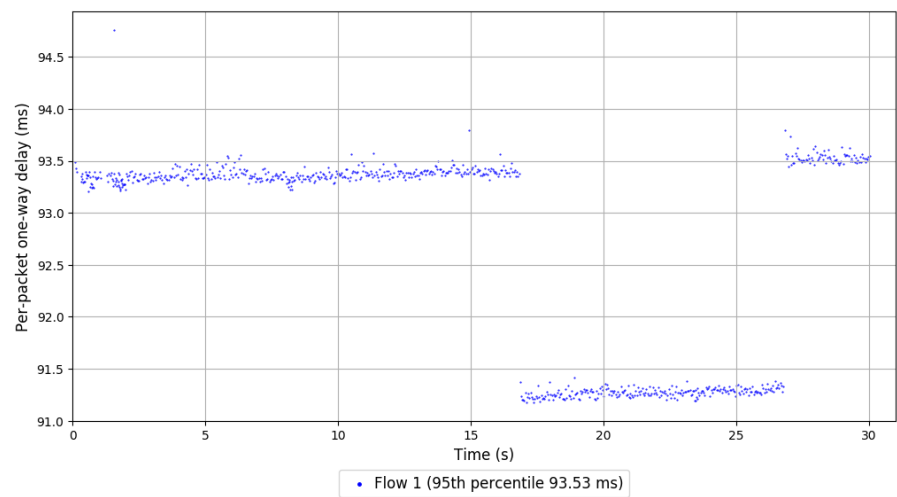
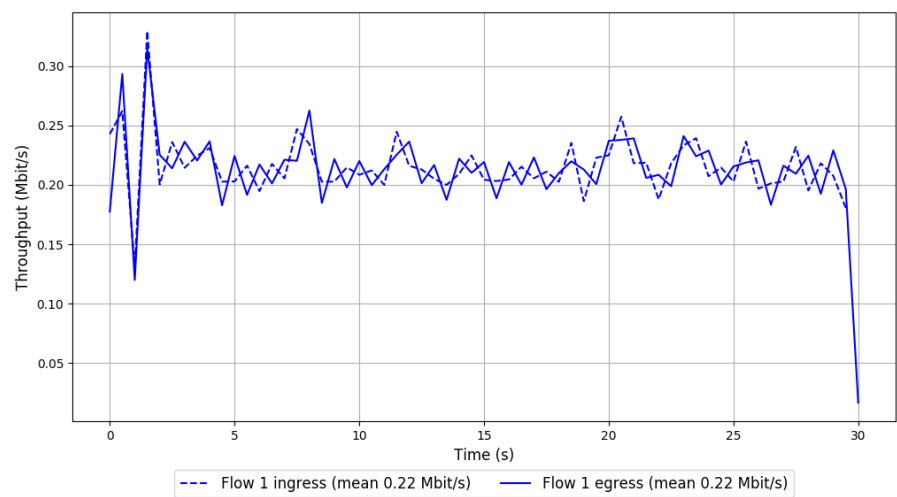
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 93.531 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-01-08 21:54:19

End at: 2018-01-08 21:54:50

Below is generated by plot.py at 2018-01-09 00:17:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 97.582 ms

Loss rate: 0.00%

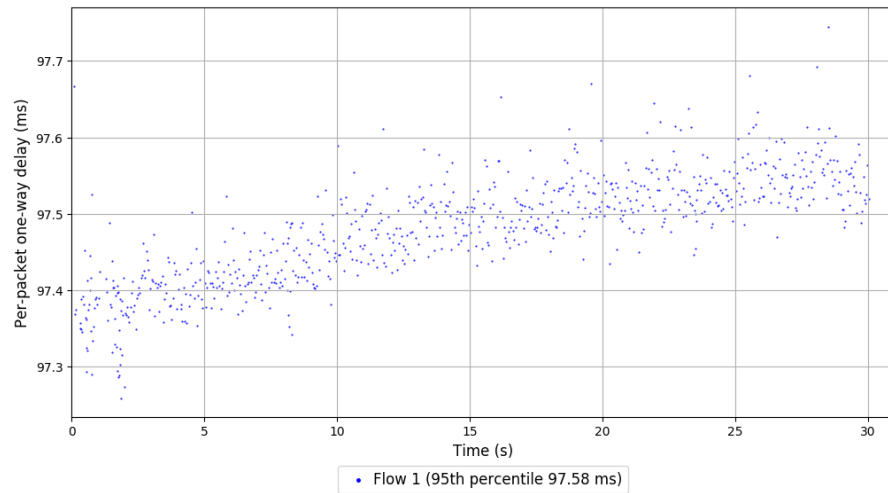
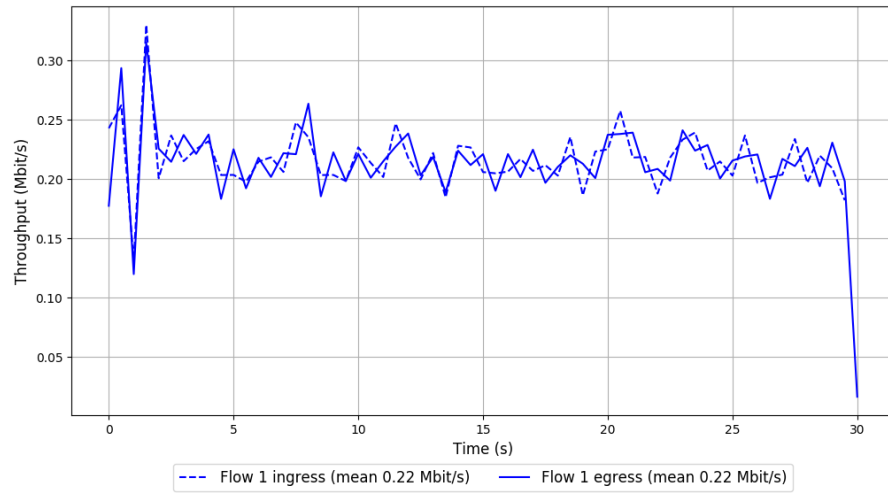
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 97.582 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-01-08 22:06:51

End at: 2018-01-08 22:07:21

Below is generated by plot.py at 2018-01-09 00:17:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 100.583 ms

Loss rate: 0.00%

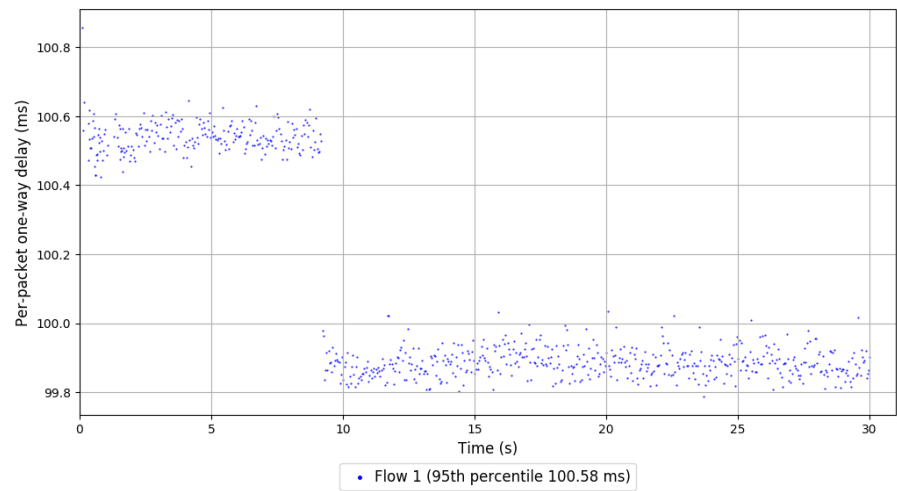
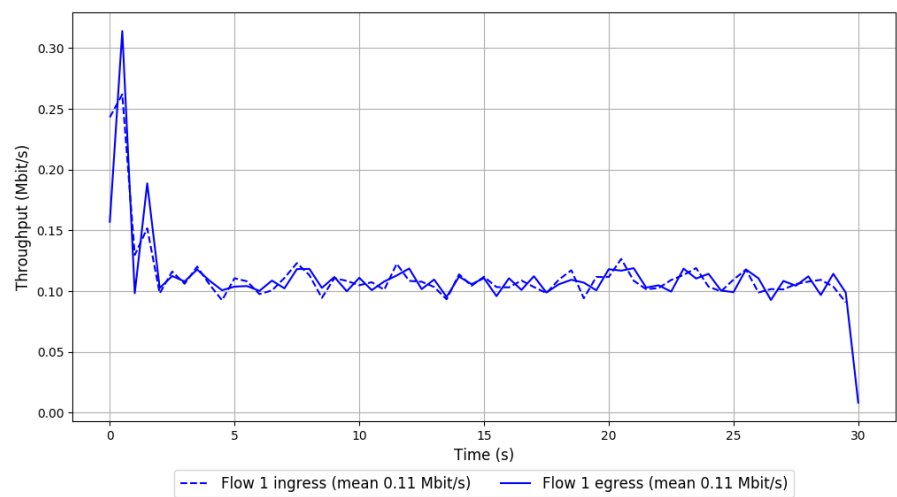
-- Flow 1:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 100.583 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

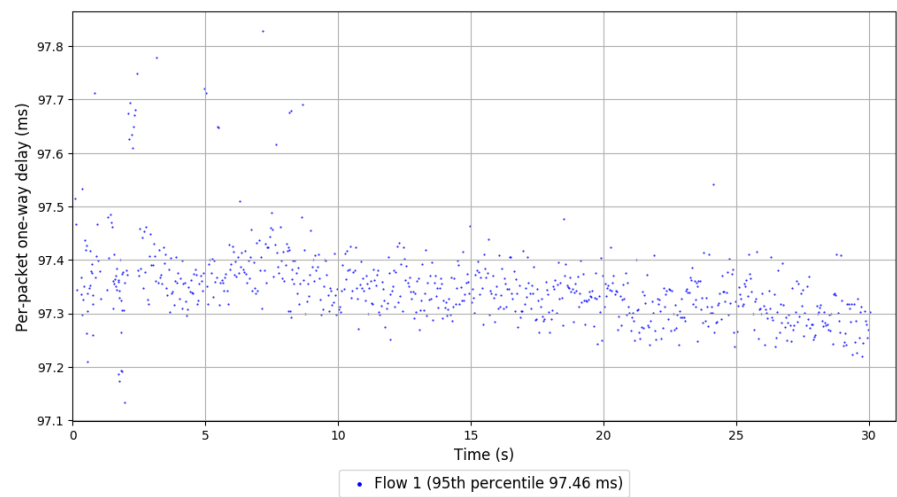
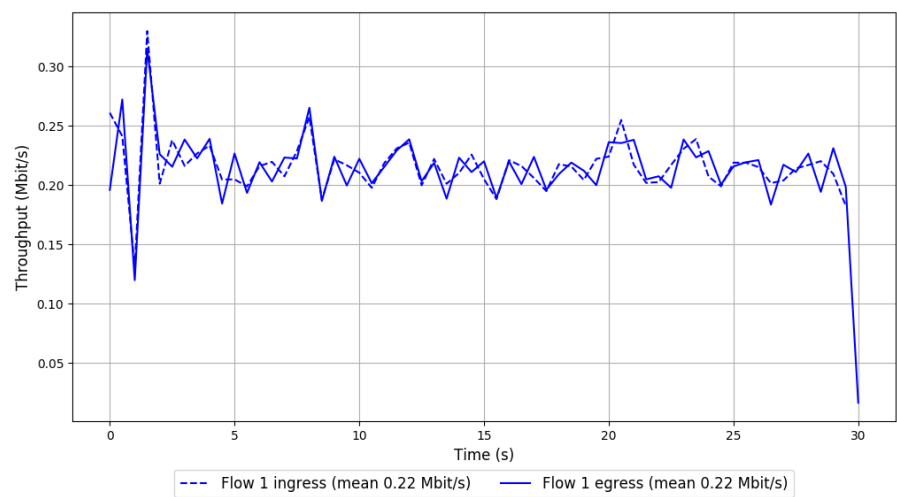


```
Run 7: Statistics of SCReAM

Start at: 2018-01-08 22:19:16
End at: 2018-01-08 22:19:46

# Below is generated by plot.py at 2018-01-09 00:17:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 97.457 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 97.457 ms
Loss rate: 0.00%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-08 22:31:36

End at: 2018-01-08 22:32:06

Below is generated by plot.py at 2018-01-09 00:17:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 99.411 ms

Loss rate: 0.13%

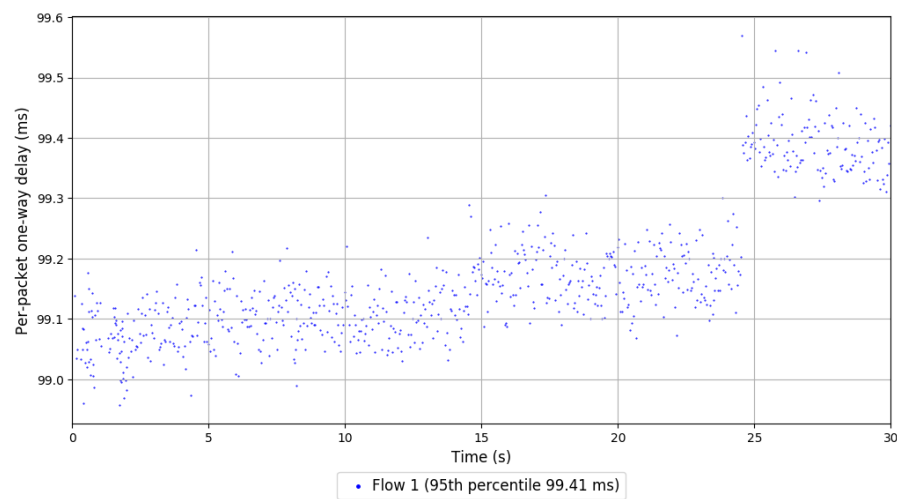
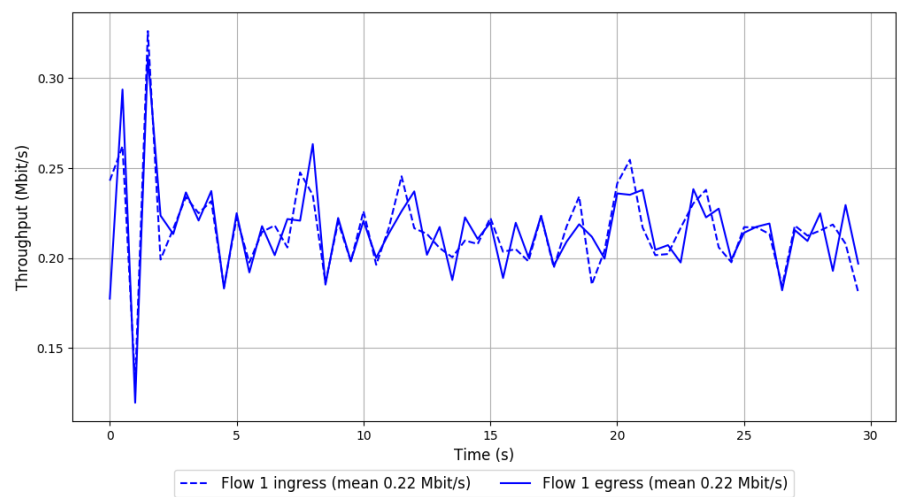
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 99.411 ms

Loss rate: 0.13%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-01-08 22:44:02

End at: 2018-01-08 22:44:32

Below is generated by plot.py at 2018-01-09 00:17:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 100.121 ms

Loss rate: 0.00%

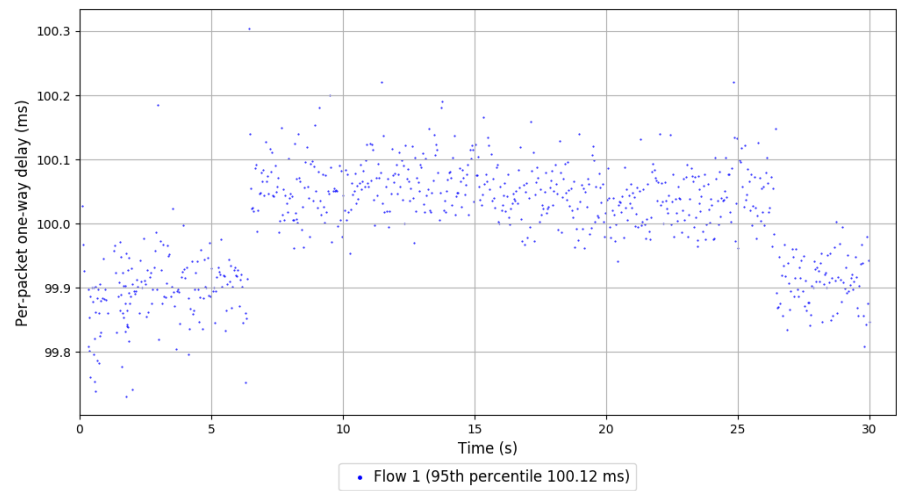
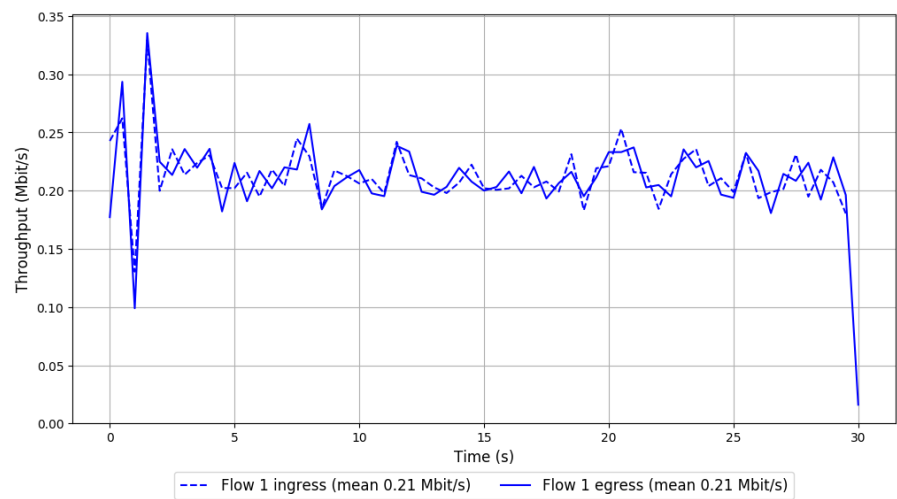
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 100.121 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

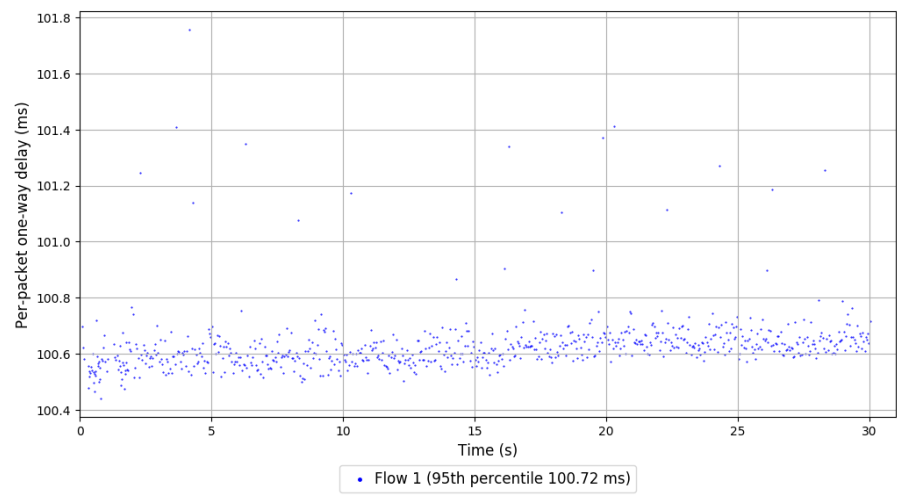
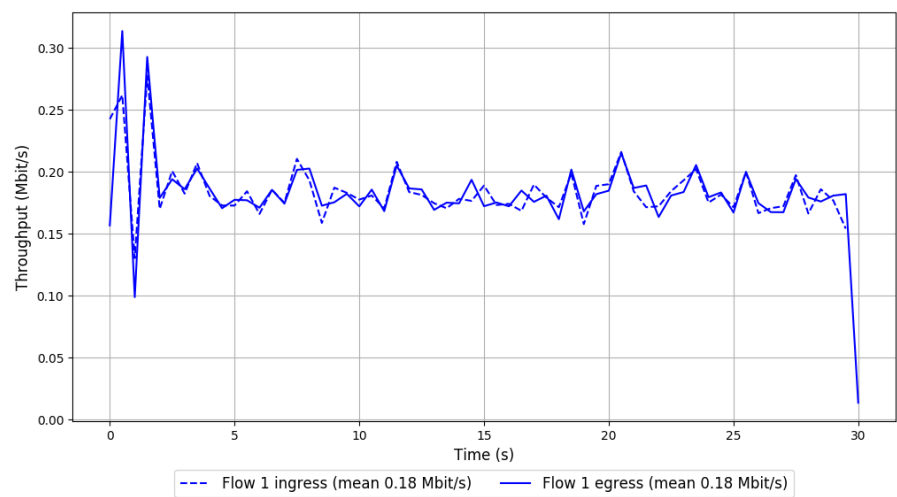


```
Run 10: Statistics of SReAM

Start at: 2018-01-08 22:56:32
End at: 2018-01-08 22:57:02

# Below is generated by plot.py at 2018-01-09 00:17:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 100.721 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 100.721 ms
Loss rate: 0.00%
```

Run 10: Report of SReAM — Data Link

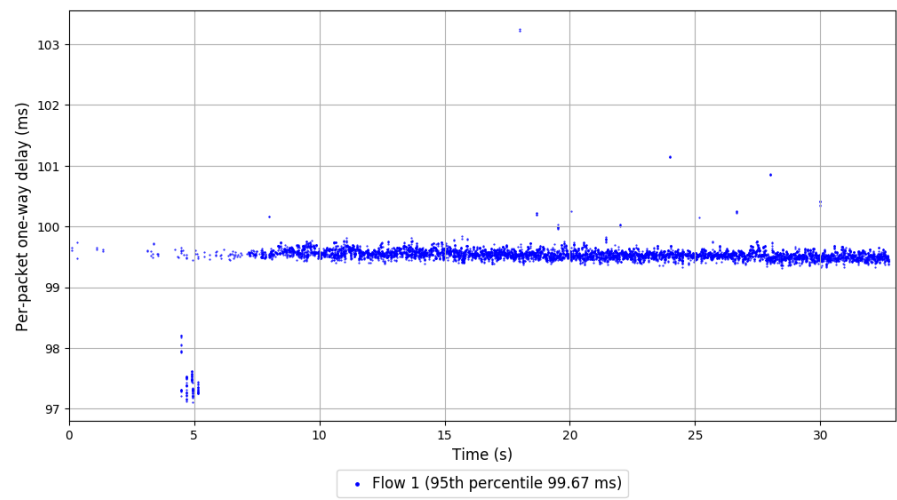
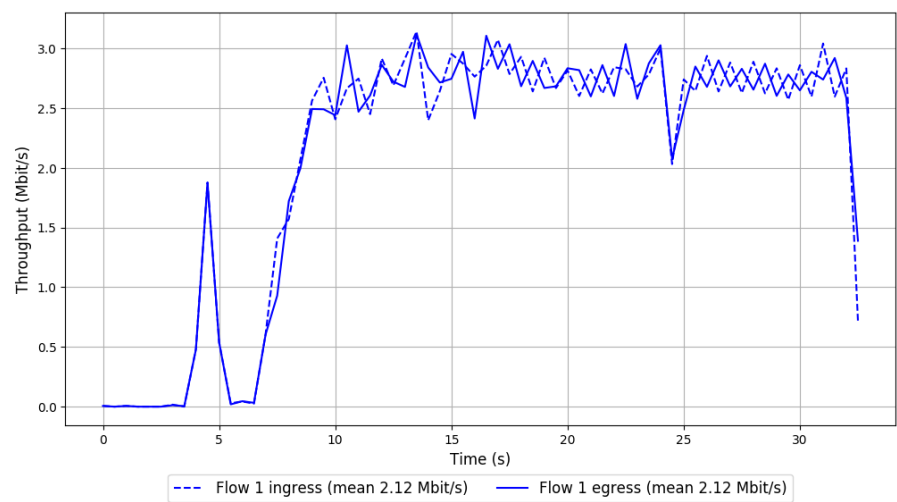


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-08 21:05:53
End at: 2018-01-08 21:06:23

# Below is generated by plot.py at 2018-01-09 00:17:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.12 Mbit/s
95th percentile per-packet one-way delay: 99.667 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.12 Mbit/s
95th percentile per-packet one-way delay: 99.667 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link

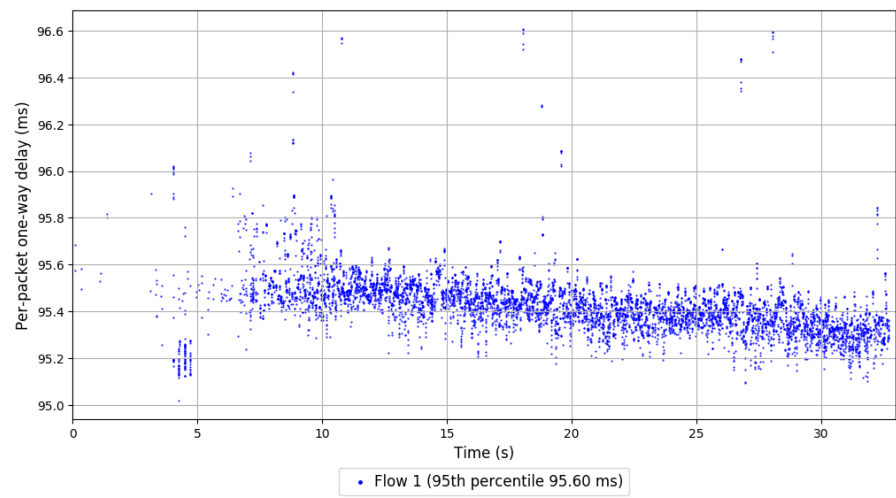
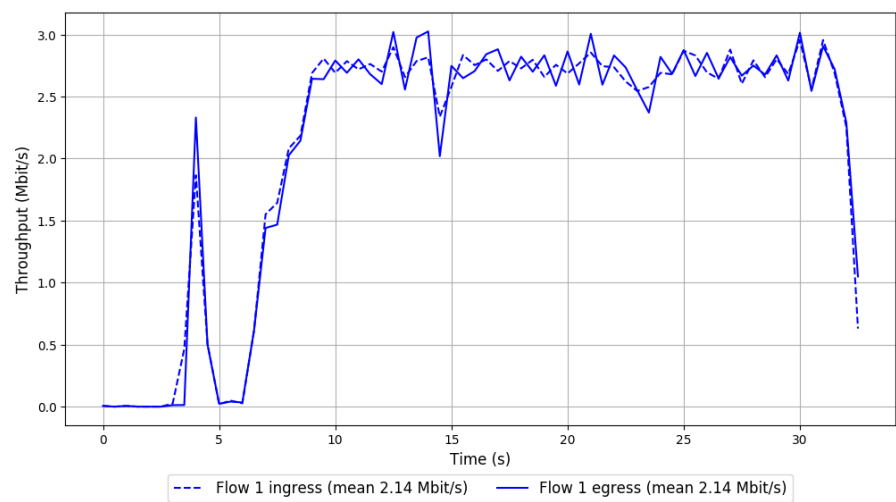


```
Run 2: Statistics of WebRTC media

Start at: 2018-01-08 21:18:34
End at: 2018-01-08 21:19:04

# Below is generated by plot.py at 2018-01-09 00:17:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.14 Mbit/s
95th percentile per-packet one-way delay: 95.597 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.14 Mbit/s
95th percentile per-packet one-way delay: 95.597 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-08 21:30:45

End at: 2018-01-08 21:31:15

Below is generated by plot.py at 2018-01-09 00:17:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 92.030 ms

Loss rate: 0.00%

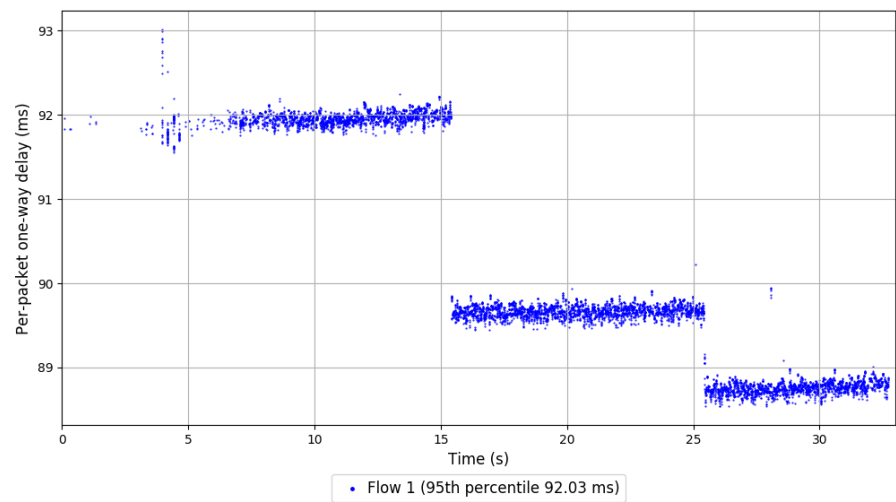
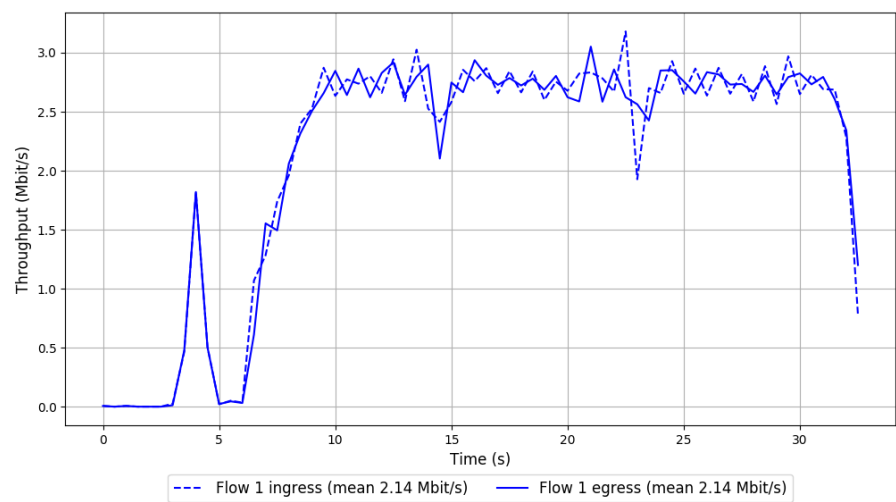
-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 92.030 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-08 21:43:07

End at: 2018-01-08 21:43:37

Below is generated by plot.py at 2018-01-09 00:17:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 94.163 ms

Loss rate: 0.00%

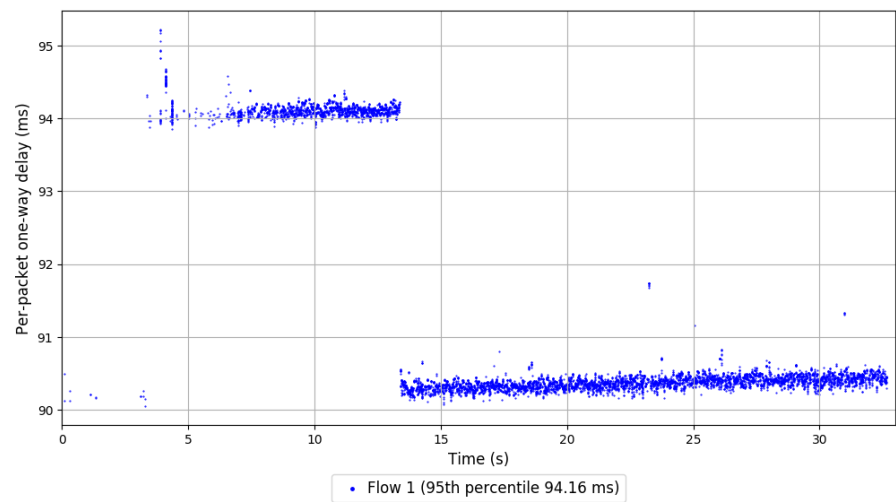
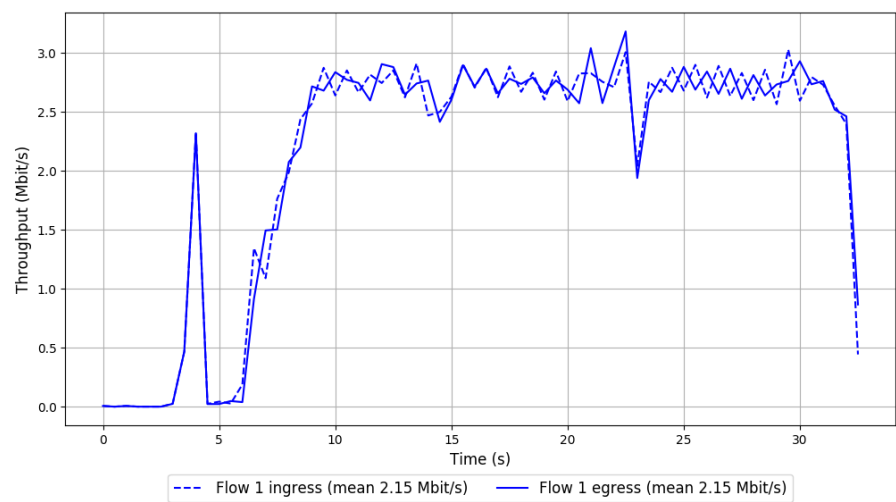
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 94.163 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-08 21:55:44

End at: 2018-01-08 21:56:14

Below is generated by plot.py at 2018-01-09 00:17:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 98.987 ms

Loss rate: 0.00%

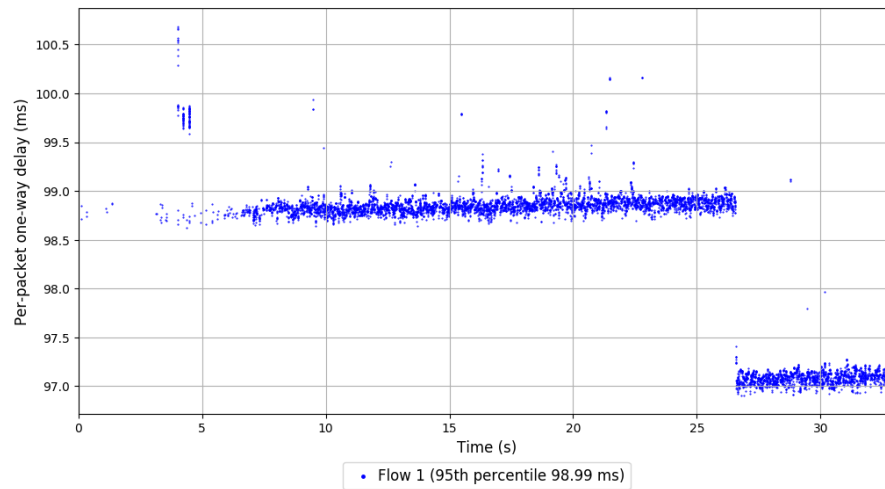
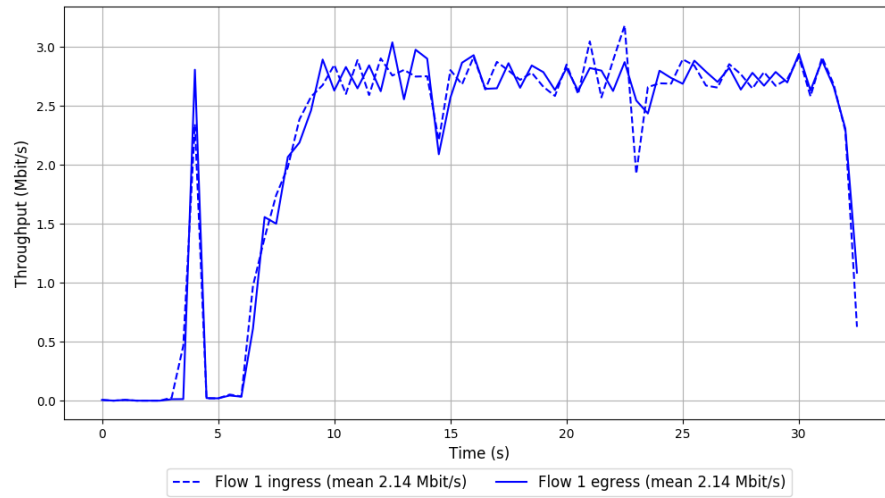
-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 98.987 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-08 22:08:17

End at: 2018-01-08 22:08:47

Below is generated by plot.py at 2018-01-09 00:17:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 99.142 ms

Loss rate: 0.00%

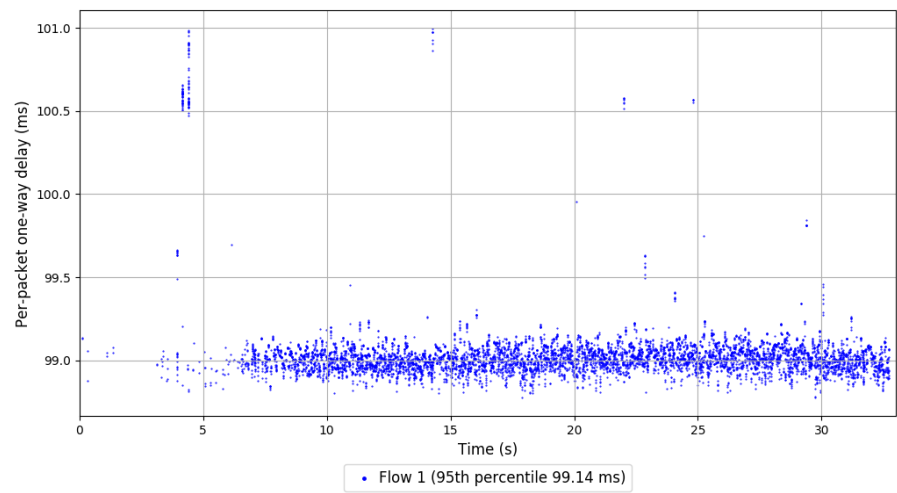
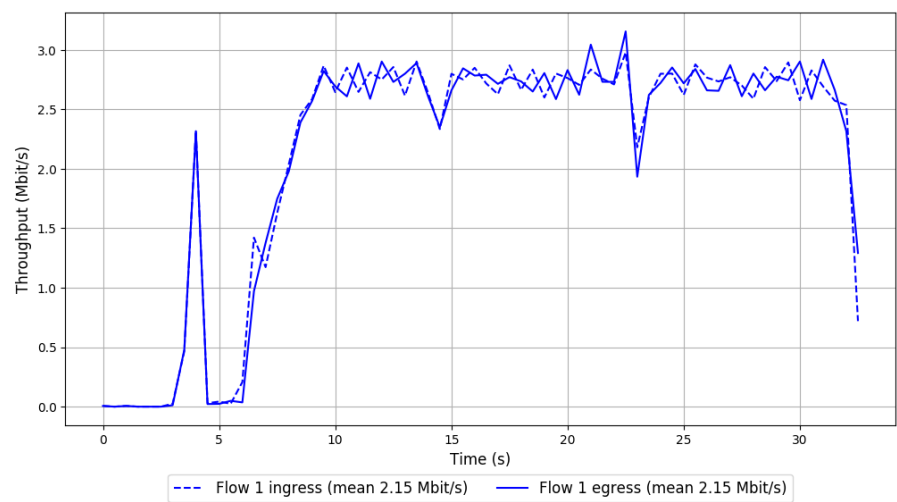
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 99.142 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-08 22:20:41

End at: 2018-01-08 22:21:11

Below is generated by plot.py at 2018-01-09 00:17:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 97.641 ms

Loss rate: 0.00%

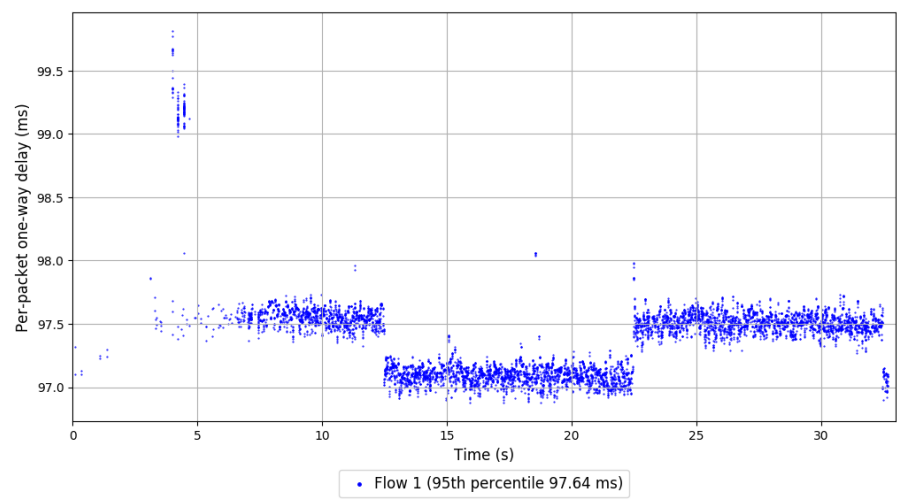
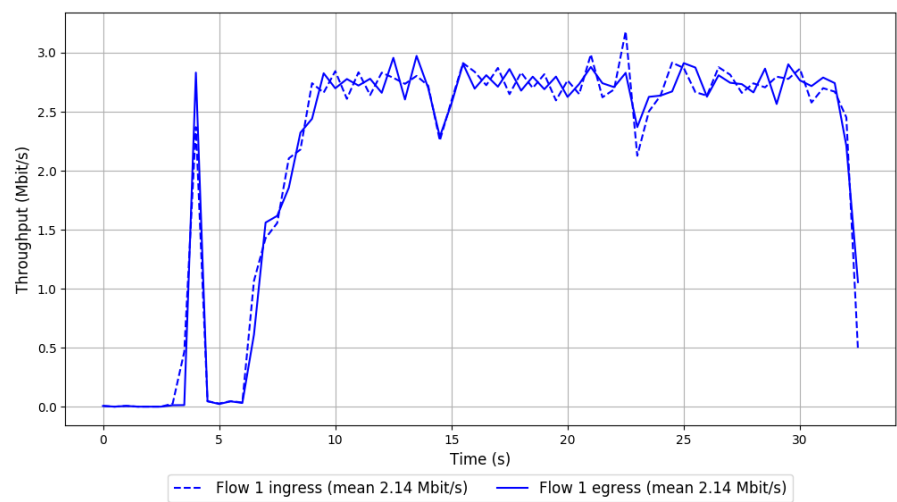
-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 97.641 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-08 22:33:01

End at: 2018-01-08 22:33:31

Below is generated by plot.py at 2018-01-09 00:17:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 99.338 ms

Loss rate: 0.00%

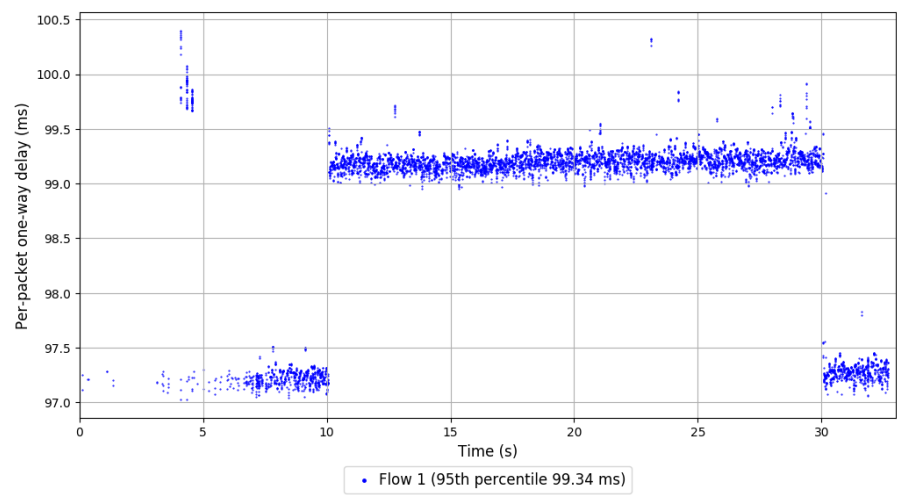
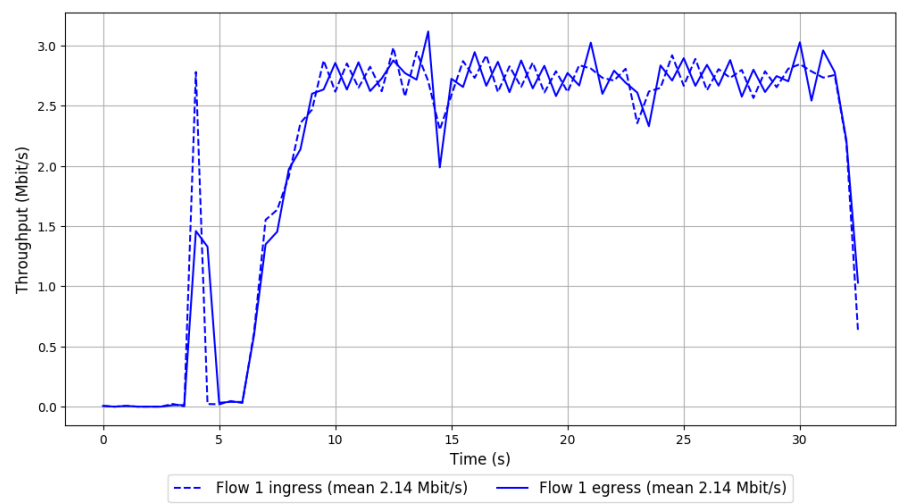
-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 99.338 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-08 22:45:28

End at: 2018-01-08 22:45:58

Below is generated by plot.py at 2018-01-09 00:17:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 97.925 ms

Loss rate: 0.00%

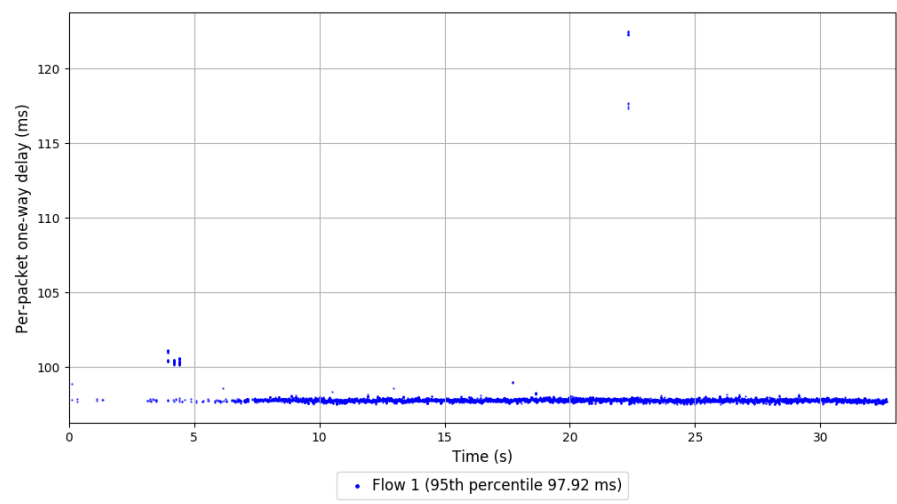
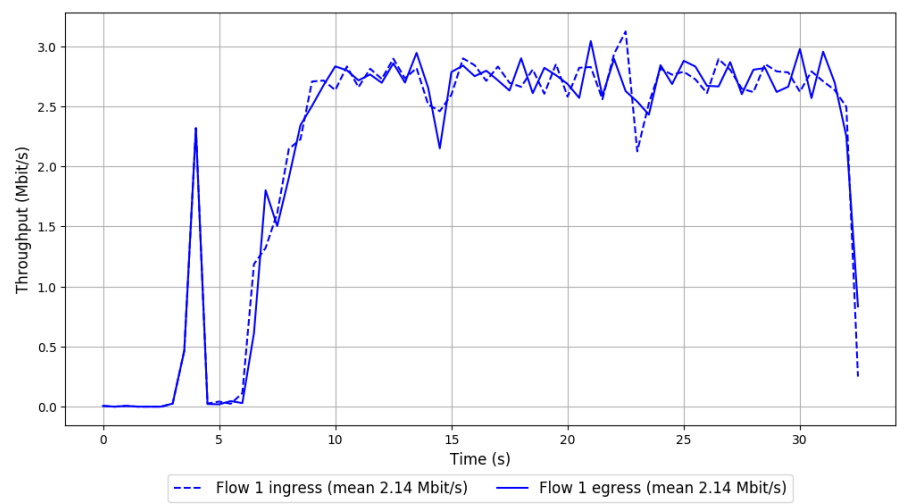
-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 97.925 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-08 22:57:56

End at: 2018-01-08 22:58:27

Below is generated by plot.py at 2018-01-09 00:17:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 100.872 ms

Loss rate: 0.00%

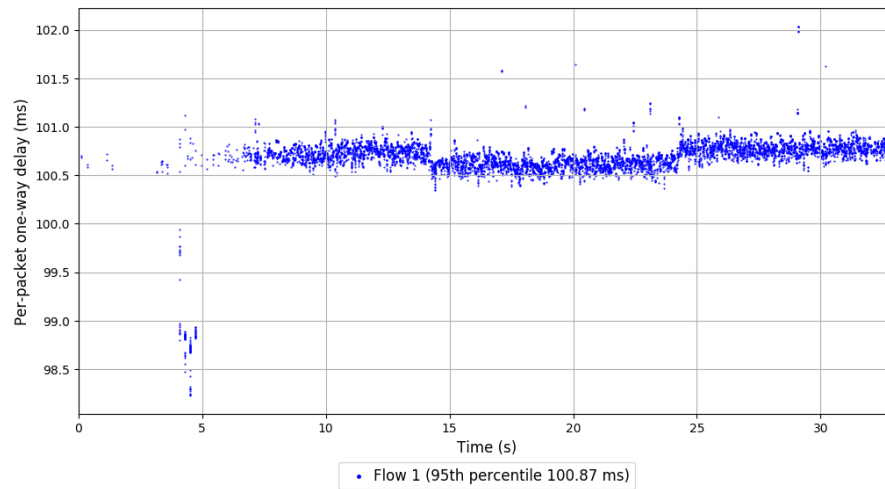
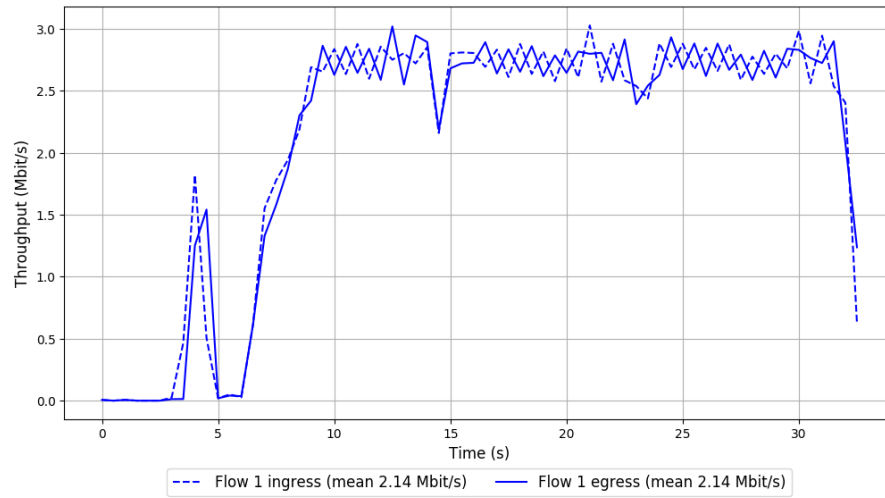
-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 100.872 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

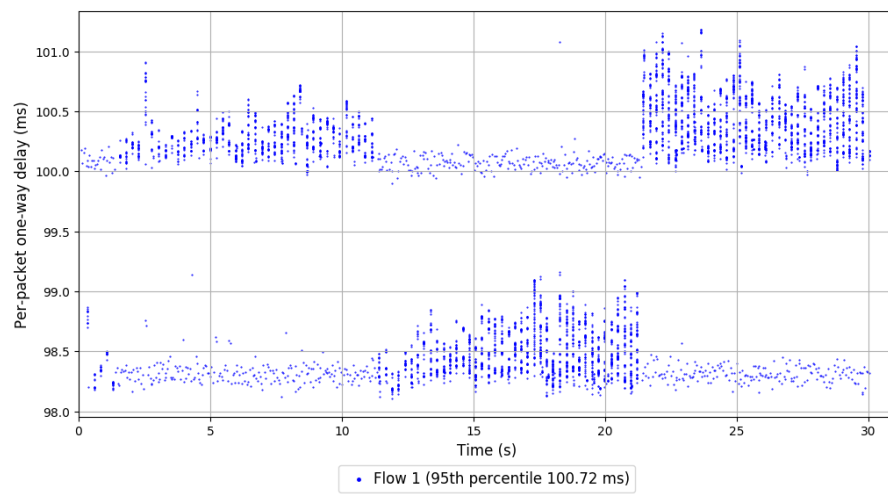
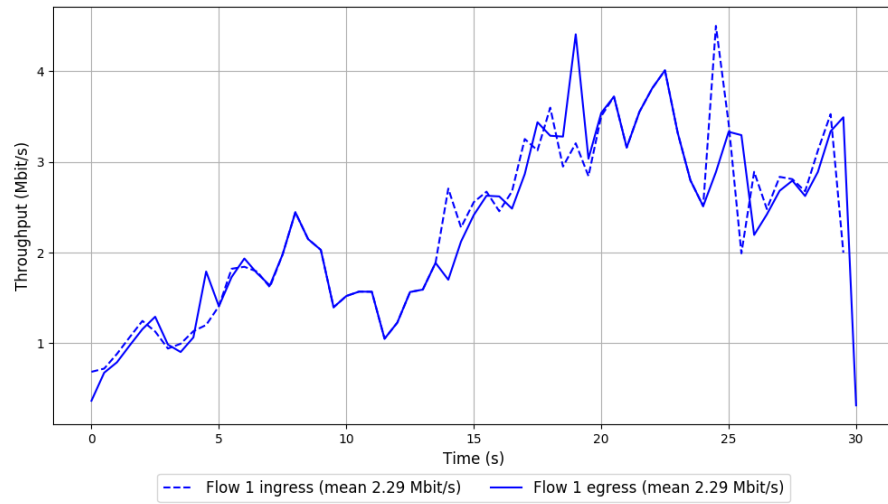


```
Run 1: Statistics of Sprout

Start at: 2018-01-08 20:58:37
End at: 2018-01-08 20:59:07

# Below is generated by plot.py at 2018-01-09 00:17:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 100.721 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 100.721 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-08 21:11:14

End at: 2018-01-08 21:11:44

Below is generated by plot.py at 2018-01-09 00:17:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 97.864 ms

Loss rate: 1.77%

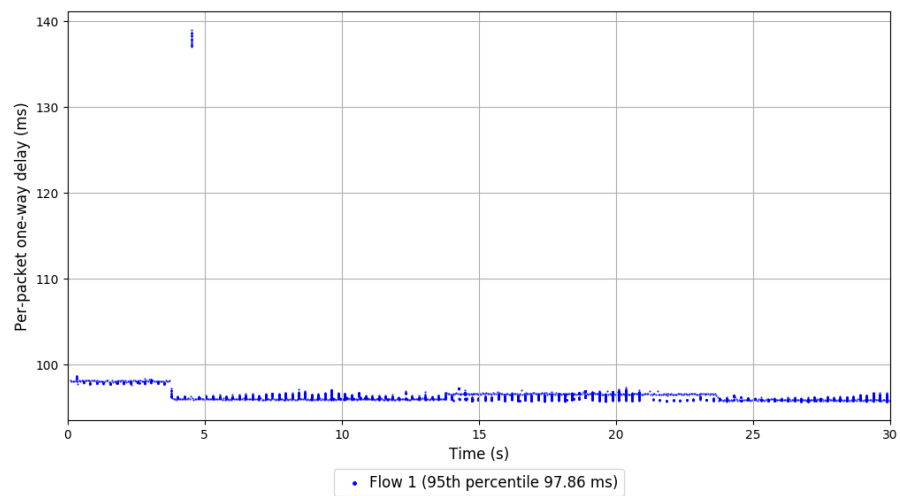
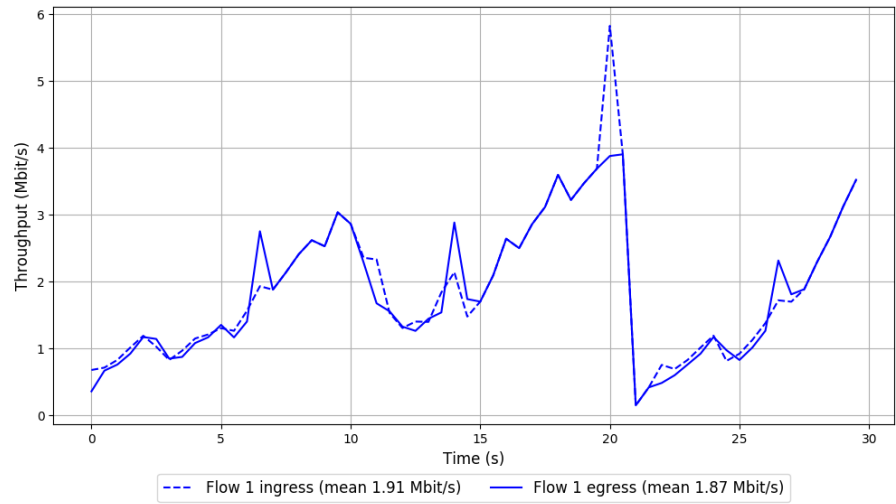
-- Flow 1:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 97.864 ms

Loss rate: 1.77%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-08 21:23:29

End at: 2018-01-08 21:23:59

Below is generated by plot.py at 2018-01-09 00:17:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 95.499 ms

Loss rate: 0.08%

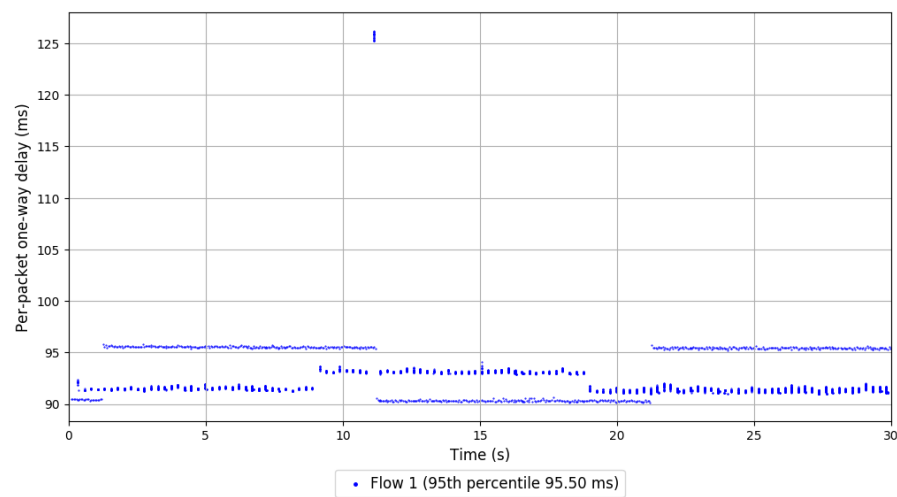
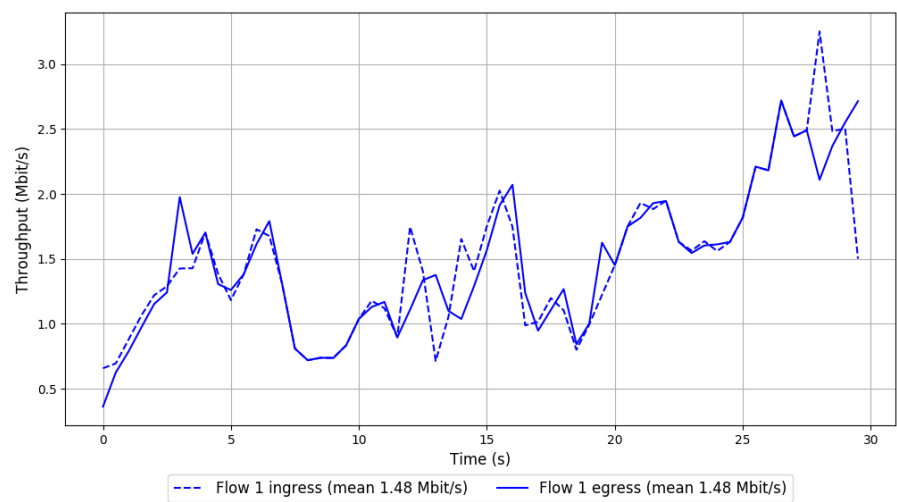
-- Flow 1:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 95.499 ms

Loss rate: 0.08%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-08 21:35:56

End at: 2018-01-08 21:36:26

Below is generated by plot.py at 2018-01-09 00:17:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 93.583 ms

Loss rate: 0.25%

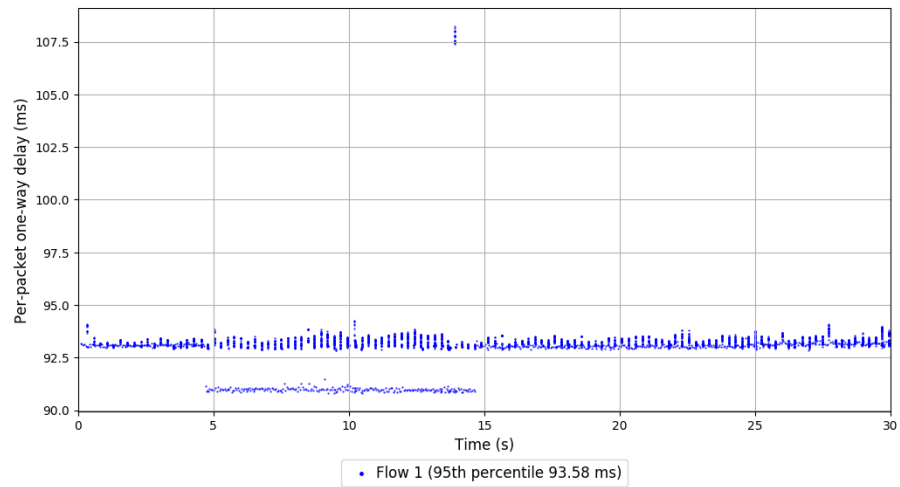
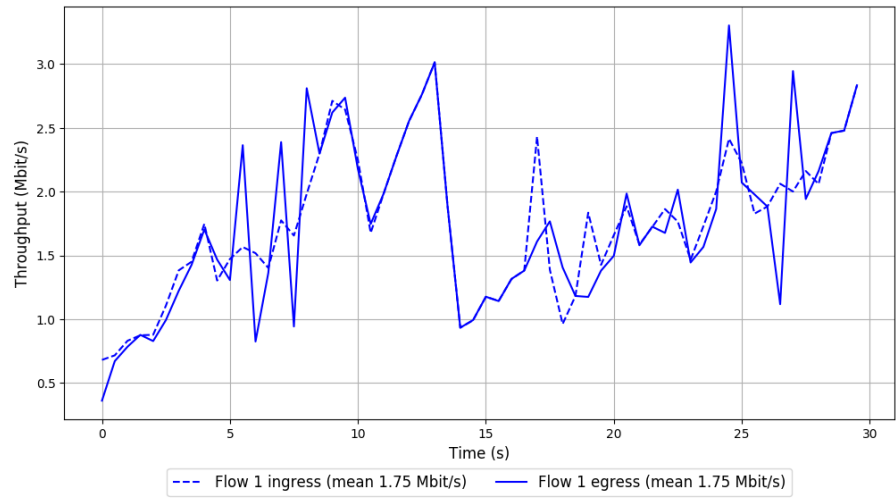
-- Flow 1:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 93.583 ms

Loss rate: 0.25%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-08 21:48:29

End at: 2018-01-08 21:49:00

Below is generated by plot.py at 2018-01-09 00:17:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 97.991 ms

Loss rate: 2.76%

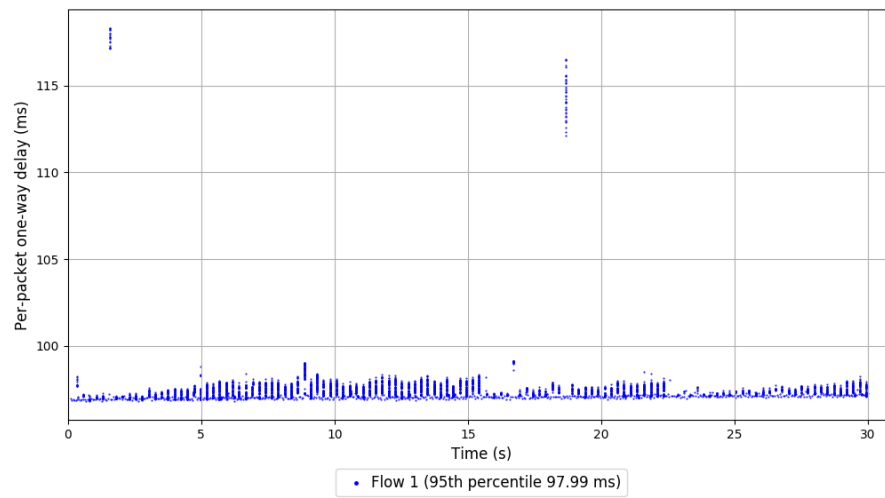
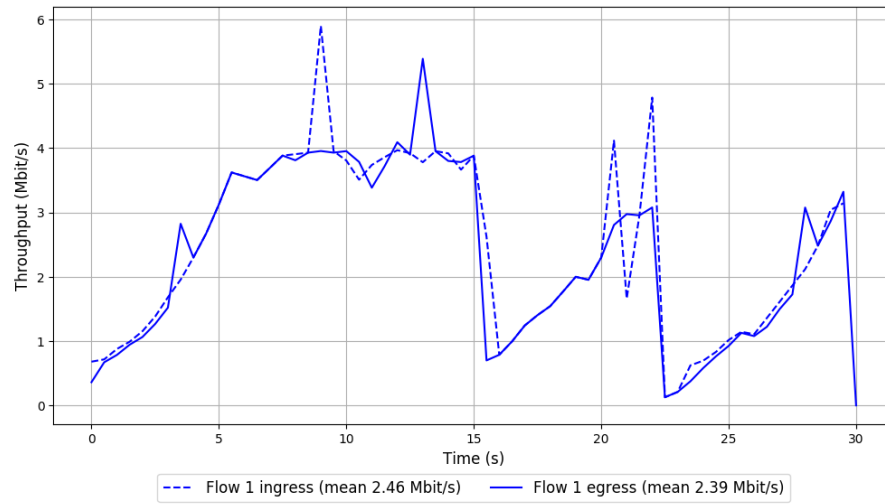
-- Flow 1:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 97.991 ms

Loss rate: 2.76%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-08 22:01:01

End at: 2018-01-08 22:01:31

Below is generated by plot.py at 2018-01-09 00:17:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 102.989 ms

Loss rate: 0.02%

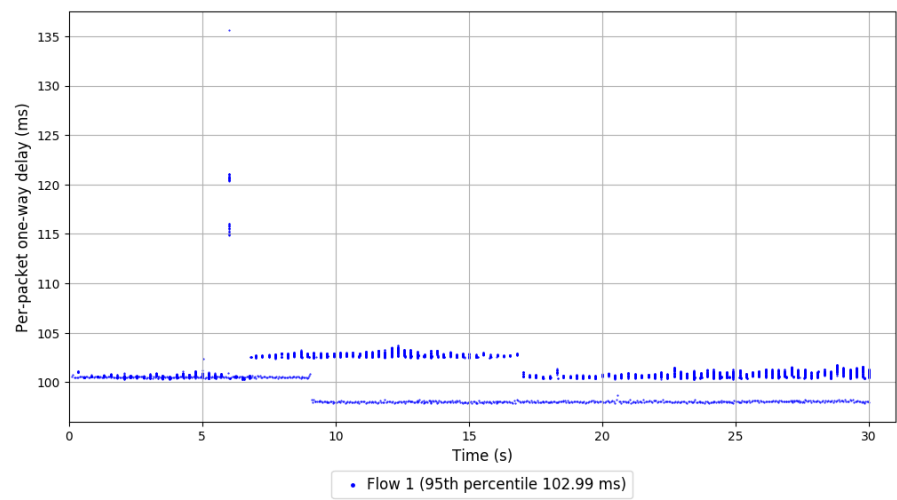
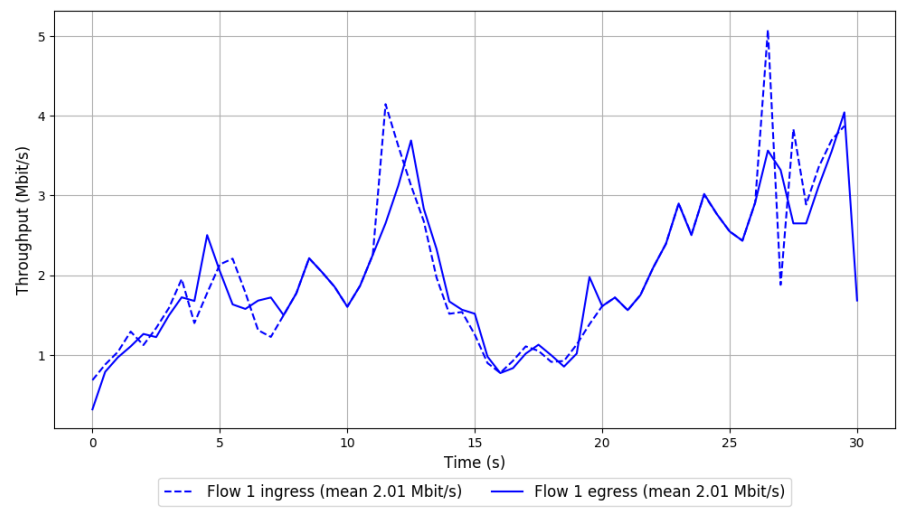
-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 102.989 ms

Loss rate: 0.02%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-08 22:13:40

End at: 2018-01-08 22:14:10

Below is generated by plot.py at 2018-01-09 00:17:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.53 Mbit/s

95th percentile per-packet one-way delay: 102.542 ms

Loss rate: 0.08%

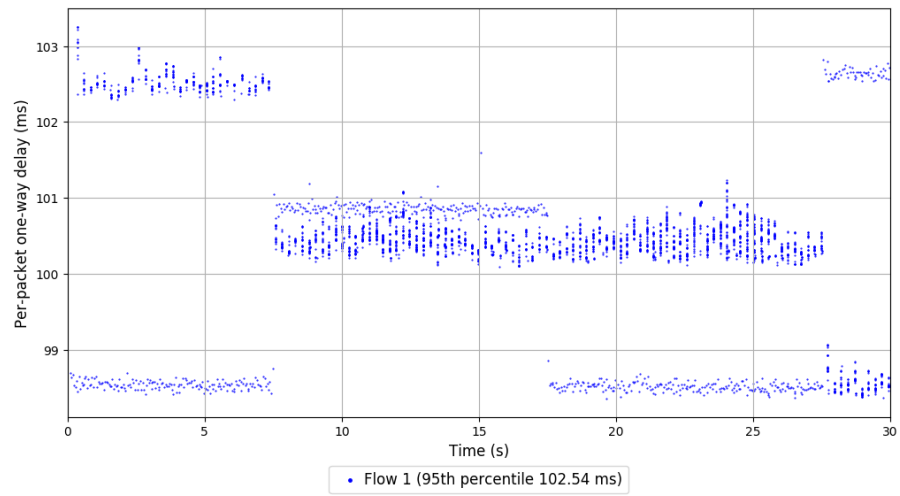
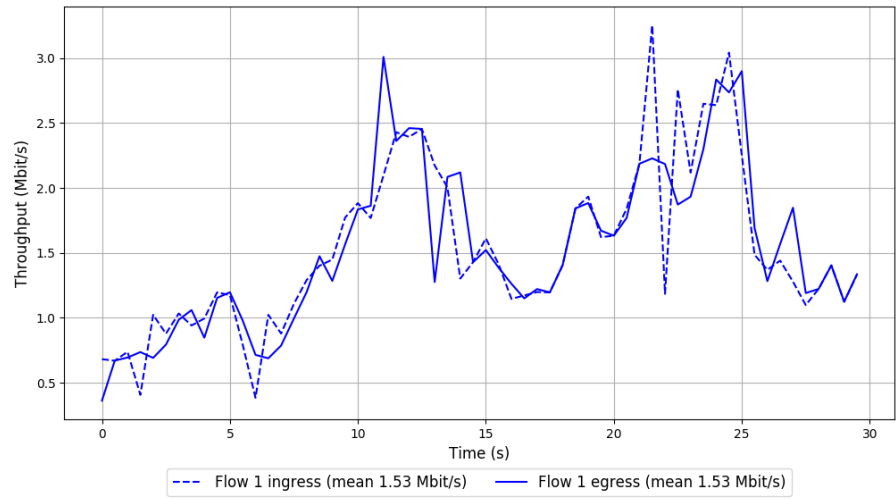
-- Flow 1:

Average throughput: 1.53 Mbit/s

95th percentile per-packet one-way delay: 102.542 ms

Loss rate: 0.08%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-08 22:25:48

End at: 2018-01-08 22:26:18

Below is generated by plot.py at 2018-01-09 00:17:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 98.797 ms

Loss rate: 0.52%

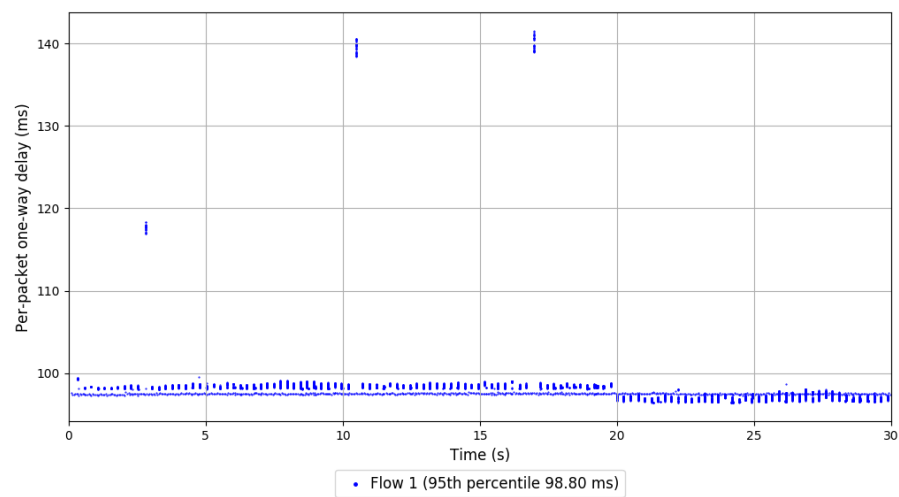
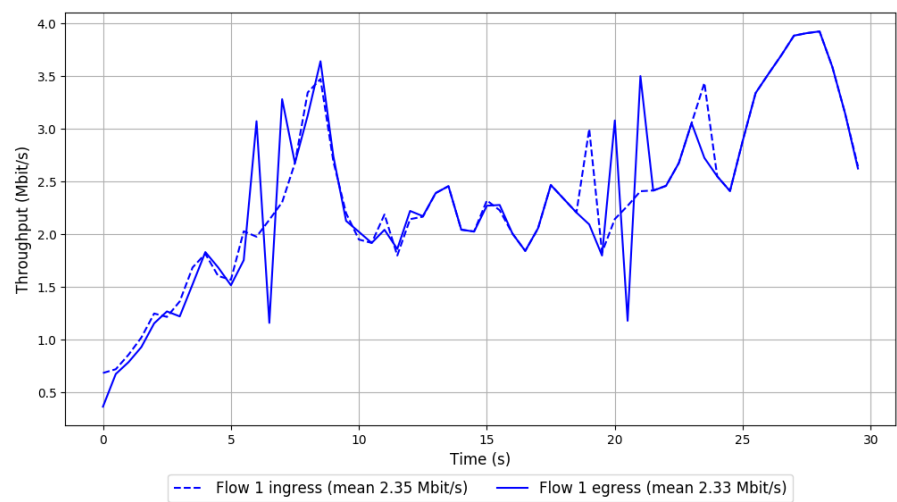
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 98.797 ms

Loss rate: 0.52%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-08 22:38:09

End at: 2018-01-08 22:38:39

Below is generated by plot.py at 2018-01-09 00:17:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.69 Mbit/s

95th percentile per-packet one-way delay: 98.728 ms

Loss rate: 0.10%

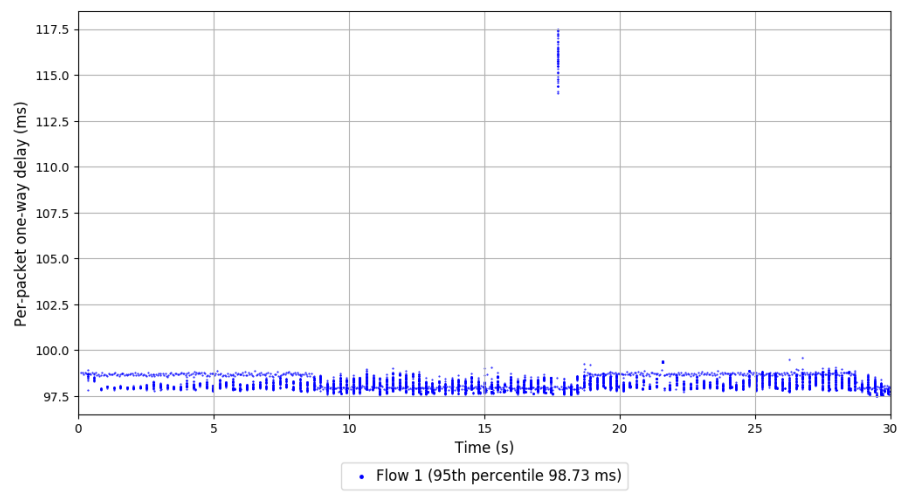
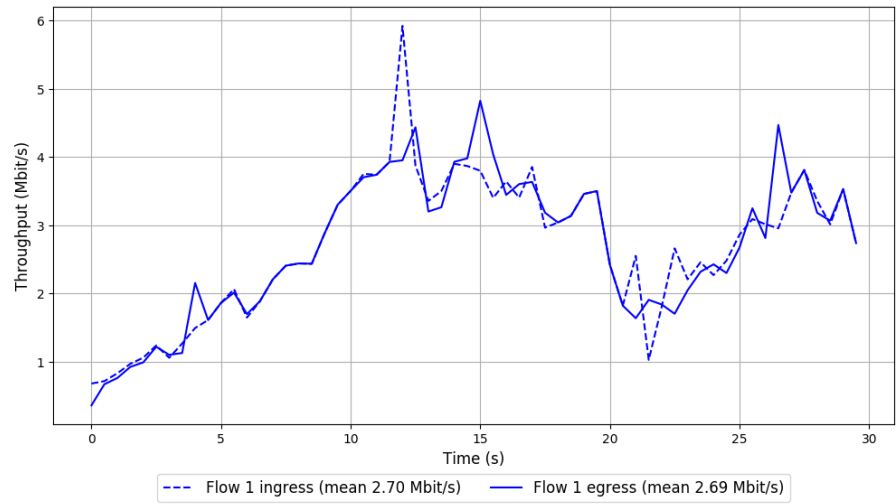
-- Flow 1:

Average throughput: 2.69 Mbit/s

95th percentile per-packet one-way delay: 98.728 ms

Loss rate: 0.10%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-08 22:50:40

End at: 2018-01-08 22:51:10

Below is generated by plot.py at 2018-01-09 00:17:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.49 Mbit/s

95th percentile per-packet one-way delay: 100.612 ms

Loss rate: 0.05%

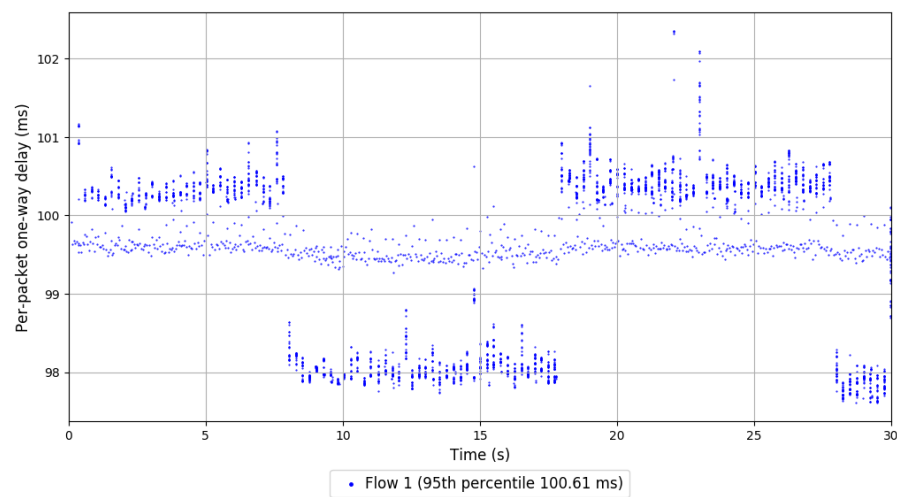
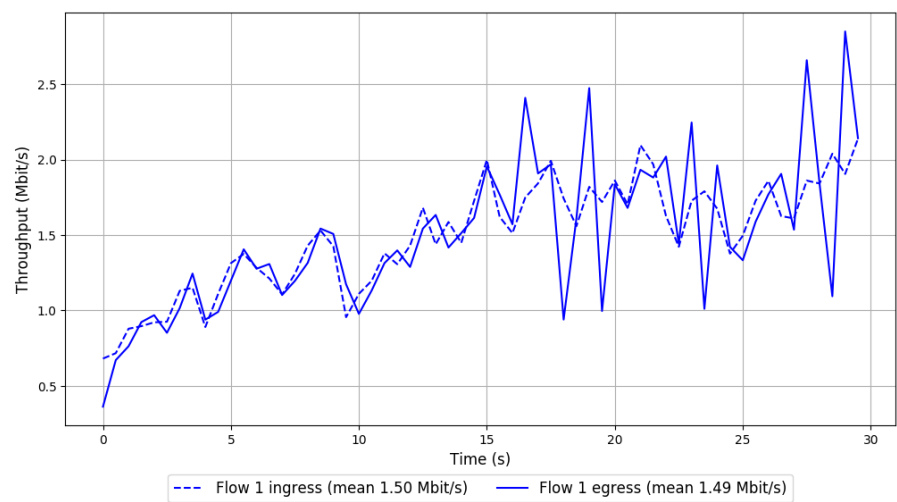
-- Flow 1:

Average throughput: 1.49 Mbit/s

95th percentile per-packet one-way delay: 100.612 ms

Loss rate: 0.05%

Run 10: Report of Sprout — Data Link

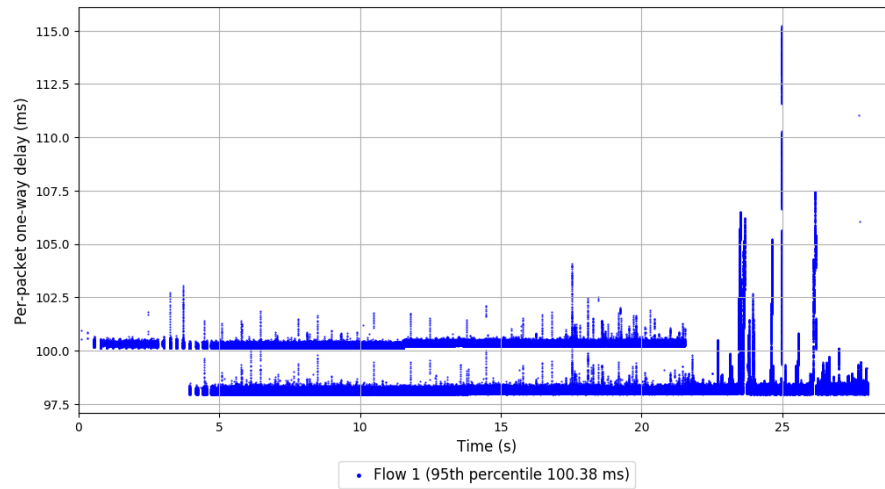
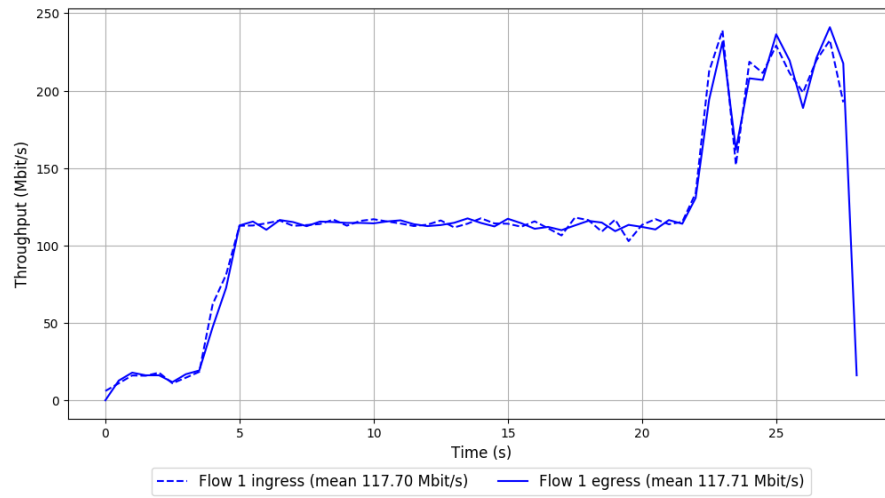


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-08 20:57:44
End at: 2018-01-08 20:58:14

# Below is generated by plot.py at 2018-01-09 00:17:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 117.71 Mbit/s
95th percentile per-packet one-way delay: 100.383 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 117.71 Mbit/s
95th percentile per-packet one-way delay: 100.383 ms
Loss rate: 0.00%
```


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

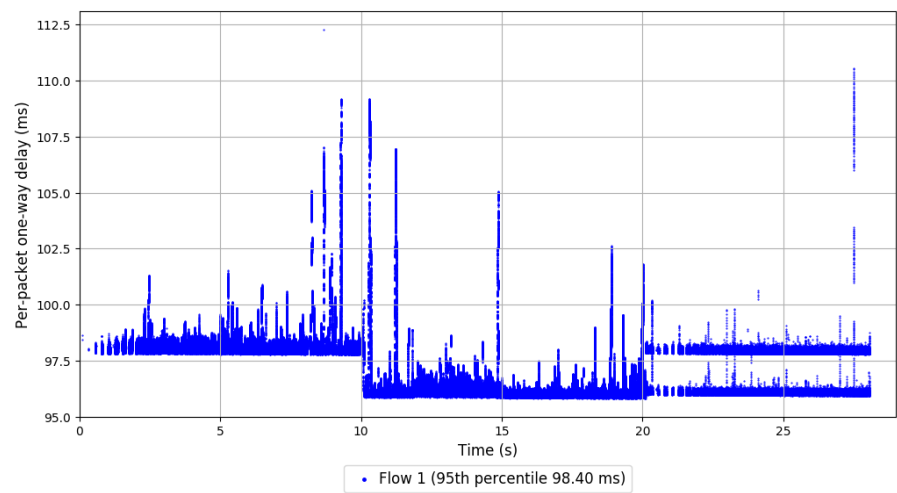
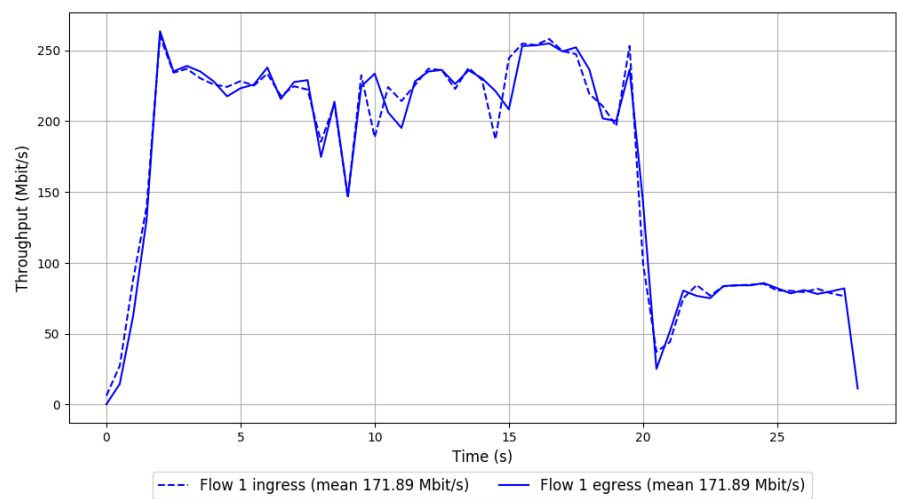


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-08 21:10:16
End at: 2018-01-08 21:10:46

# Below is generated by plot.py at 2018-01-09 00:17:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 171.89 Mbit/s
95th percentile per-packet one-way delay: 98.403 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 171.89 Mbit/s
95th percentile per-packet one-way delay: 98.403 ms
Loss rate: 0.00%
```

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

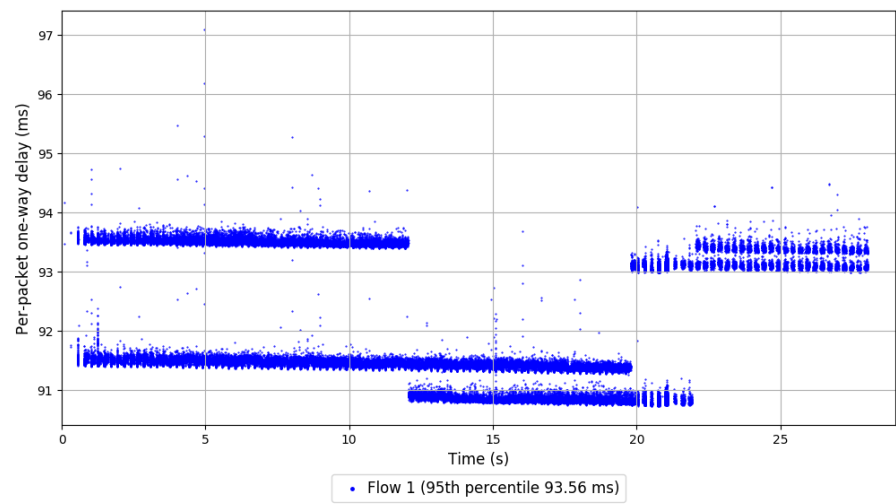
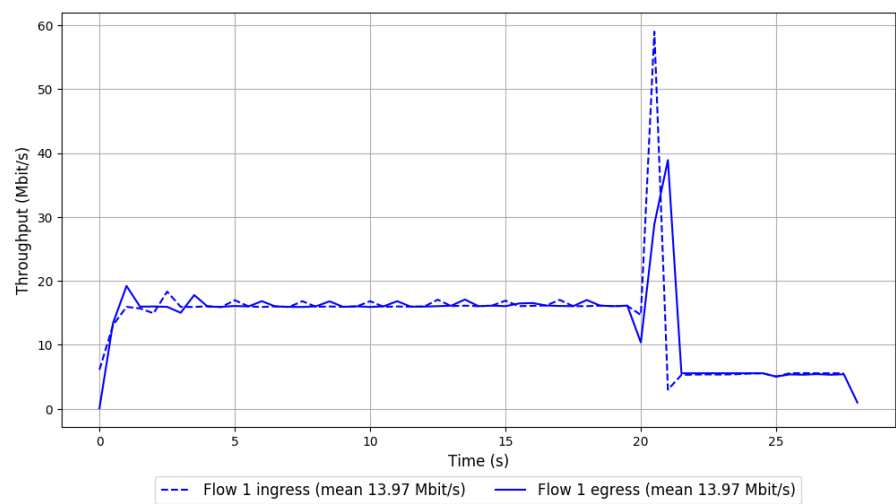


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-01-08 21:22:46
End at: 2018-01-08 21:23:16

# Below is generated by plot.py at 2018-01-09 00:17:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.97 Mbit/s
95th percentile per-packet one-way delay: 93.559 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.97 Mbit/s
95th percentile per-packet one-way delay: 93.559 ms
Loss rate: 0.00%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-08 21:35:08

End at: 2018-01-08 21:35:38

Below is generated by plot.py at 2018-01-09 00:17:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.68 Mbit/s

95th percentile per-packet one-way delay: 94.414 ms

Loss rate: 0.00%

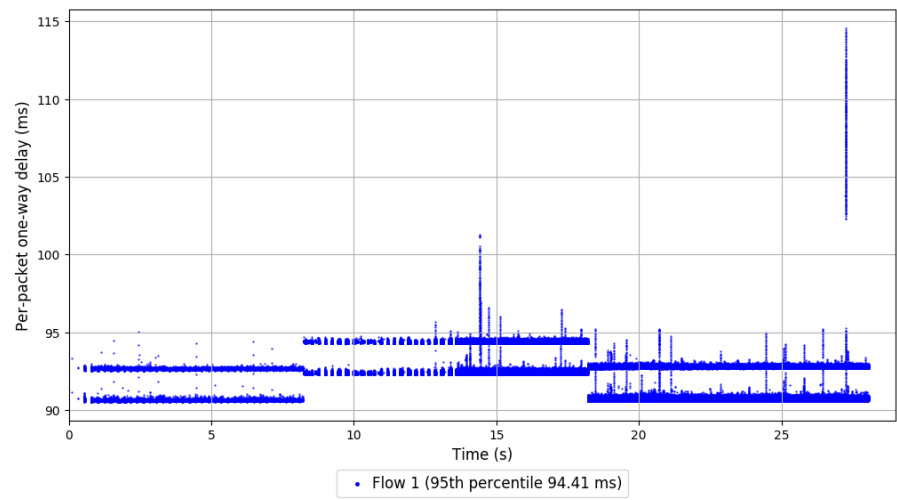
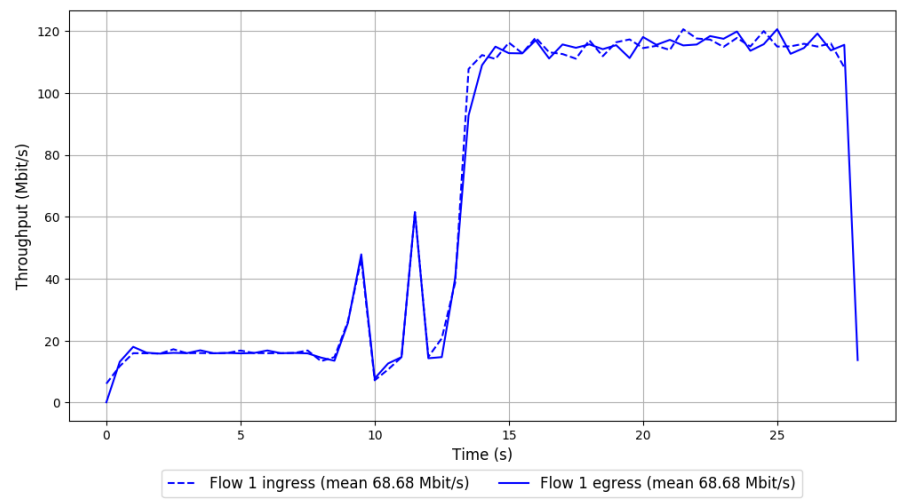
-- Flow 1:

Average throughput: 68.68 Mbit/s

95th percentile per-packet one-way delay: 94.414 ms

Loss rate: 0.00%

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

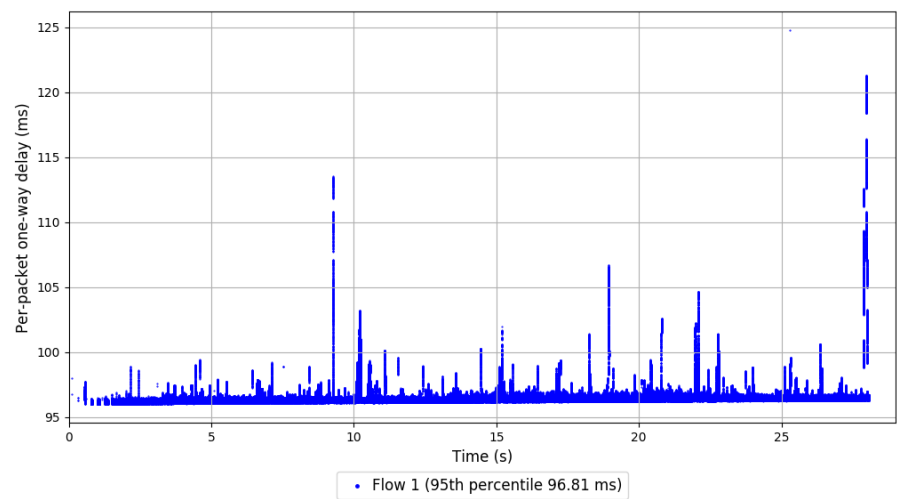
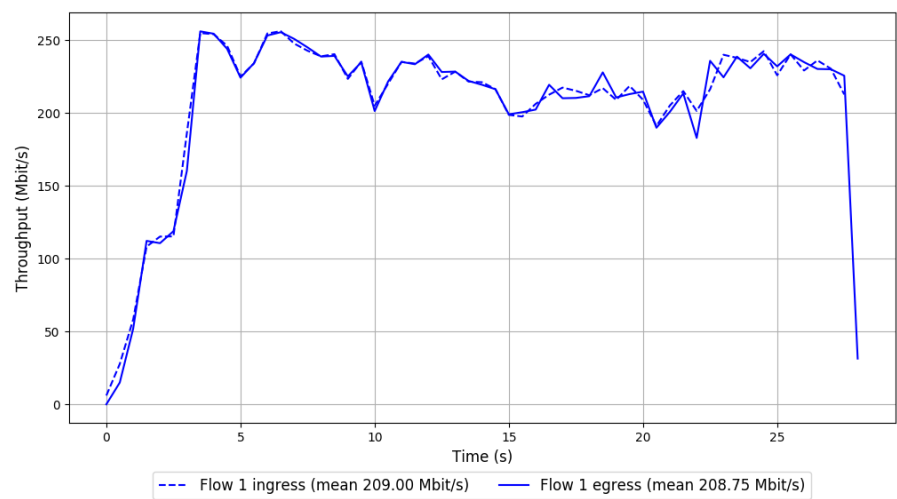


```
Run 5: Statistics of TaoVA-100x

Start at: 2018-01-08 21:47:28
End at: 2018-01-08 21:47:58

# Below is generated by plot.py at 2018-01-09 00:17:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 208.75 Mbit/s
95th percentile per-packet one-way delay: 96.805 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 208.75 Mbit/s
95th percentile per-packet one-way delay: 96.805 ms
Loss rate: 0.13%
```


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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-08 22:00:04

End at: 2018-01-08 22:00:34

Below is generated by plot.py at 2018-01-09 00:17:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.69 Mbit/s

95th percentile per-packet one-way delay: 101.315 ms

Loss rate: 0.01%

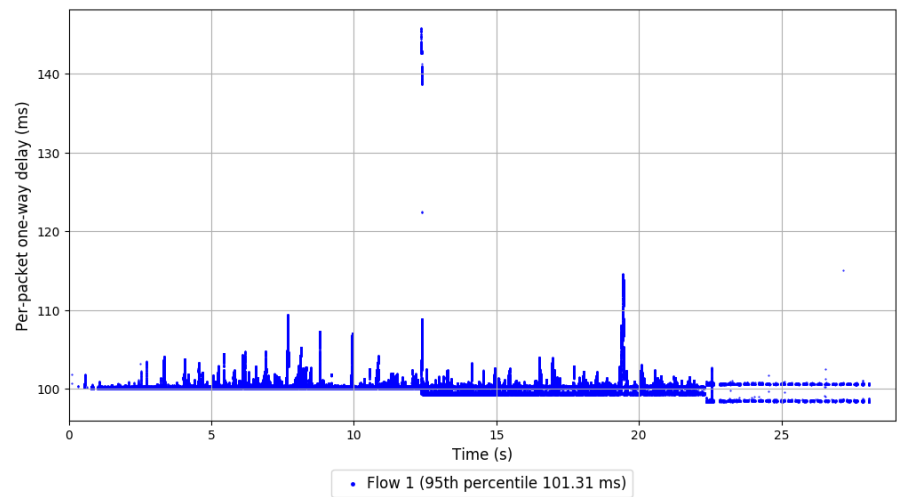
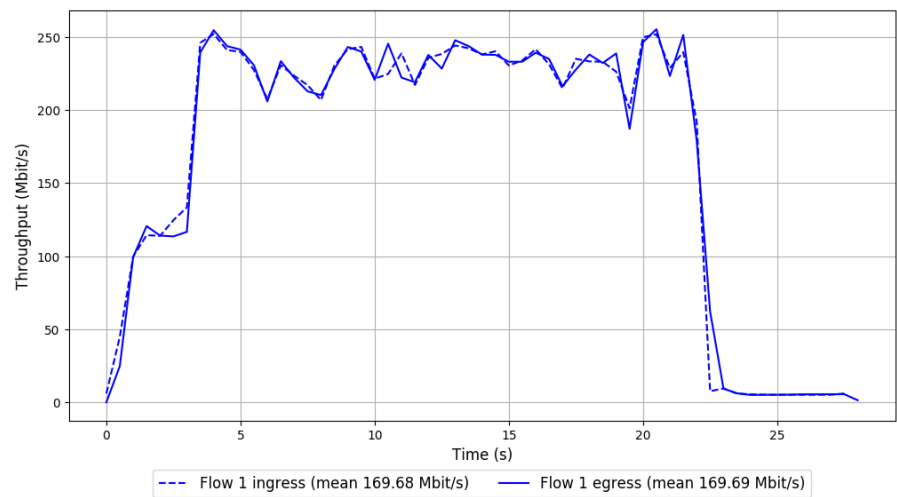
-- Flow 1:

Average throughput: 169.69 Mbit/s

95th percentile per-packet one-way delay: 101.315 ms

Loss rate: 0.01%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-01-08 22:12:40

End at: 2018-01-08 22:13:10

Below is generated by plot.py at 2018-01-09 00:17:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.48 Mbit/s

95th percentile per-packet one-way delay: 100.736 ms

Loss rate: 0.00%

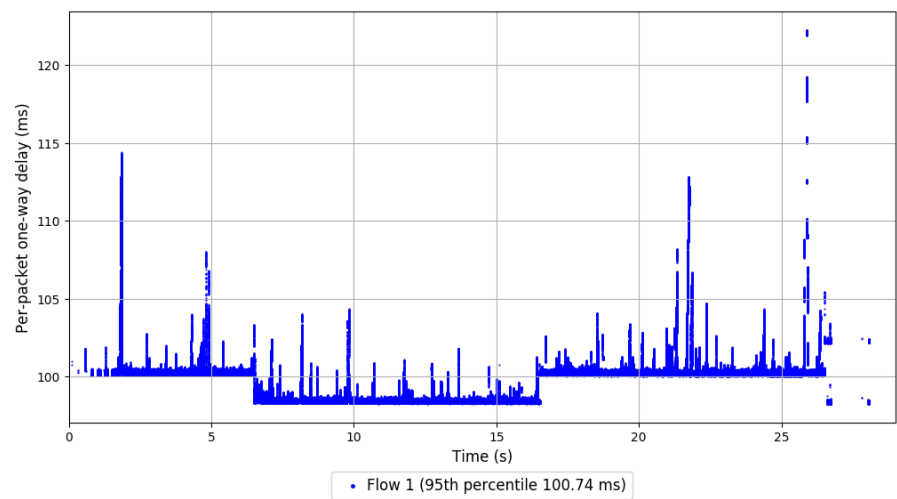
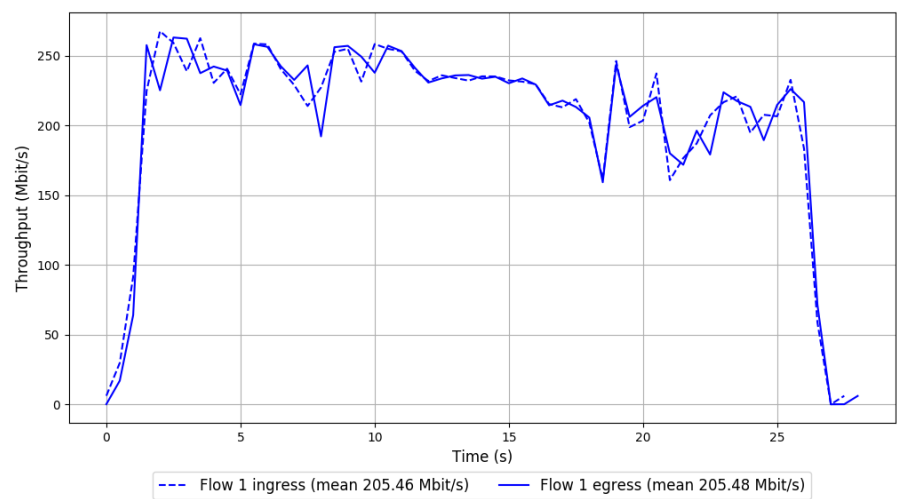
-- Flow 1:

Average throughput: 205.48 Mbit/s

95th percentile per-packet one-way delay: 100.736 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-08 22:25:00

End at: 2018-01-08 22:25:30

Below is generated by plot.py at 2018-01-09 00:17:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.65 Mbit/s

95th percentile per-packet one-way delay: 98.583 ms

Loss rate: 0.00%

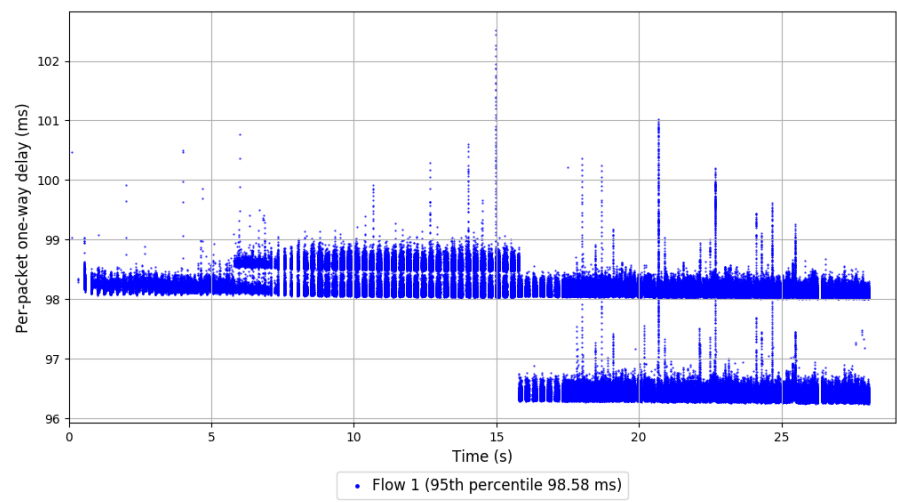
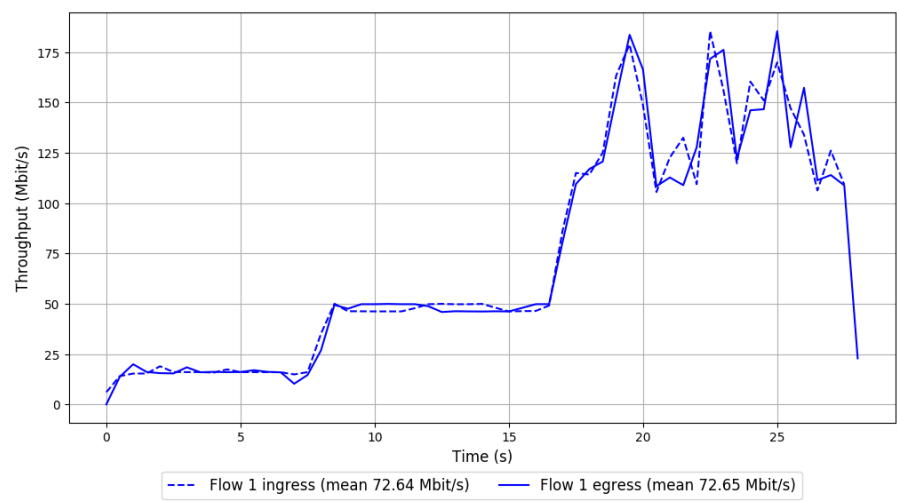
-- Flow 1:

Average throughput: 72.65 Mbit/s

95th percentile per-packet one-way delay: 98.583 ms

Loss rate: 0.00%

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

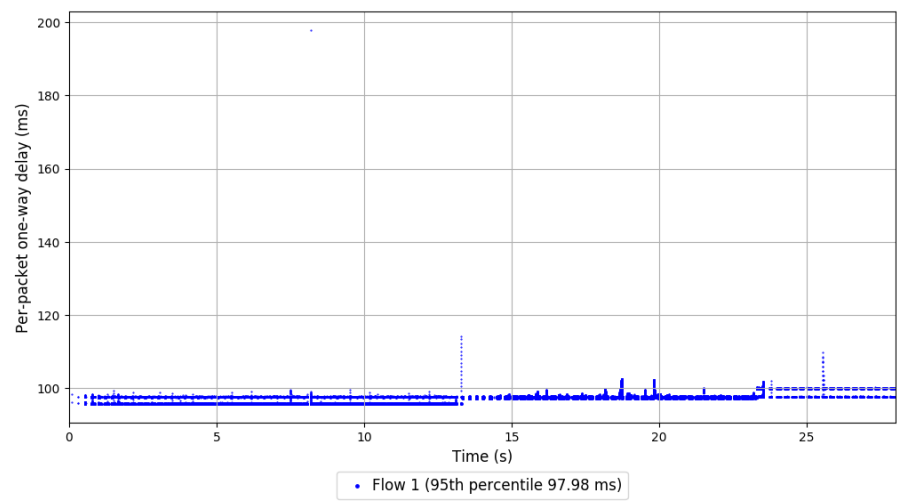
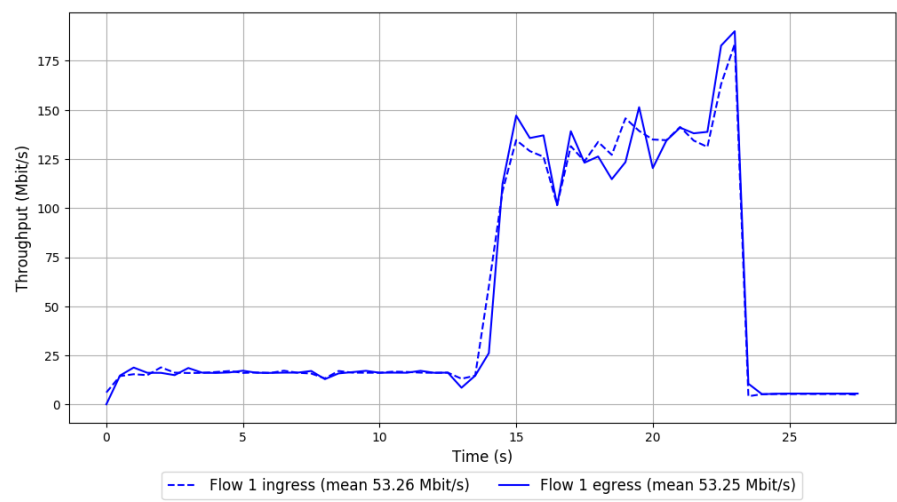


```
Run 9: Statistics of TaoVA-100x

Start at: 2018-01-08 22:37:23
End at: 2018-01-08 22:37:53

# Below is generated by plot.py at 2018-01-09 00:17:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.25 Mbit/s
95th percentile per-packet one-way delay: 97.978 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 53.25 Mbit/s
95th percentile per-packet one-way delay: 97.978 ms
Loss rate: 0.00%
```


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

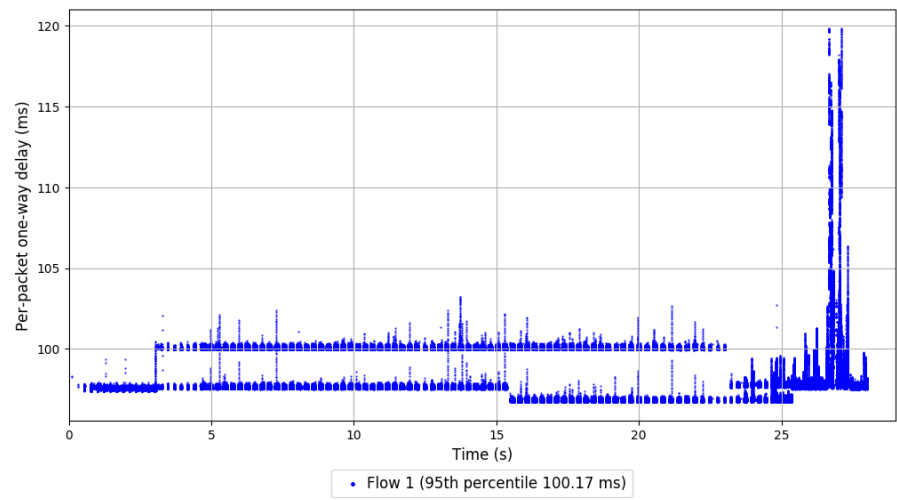
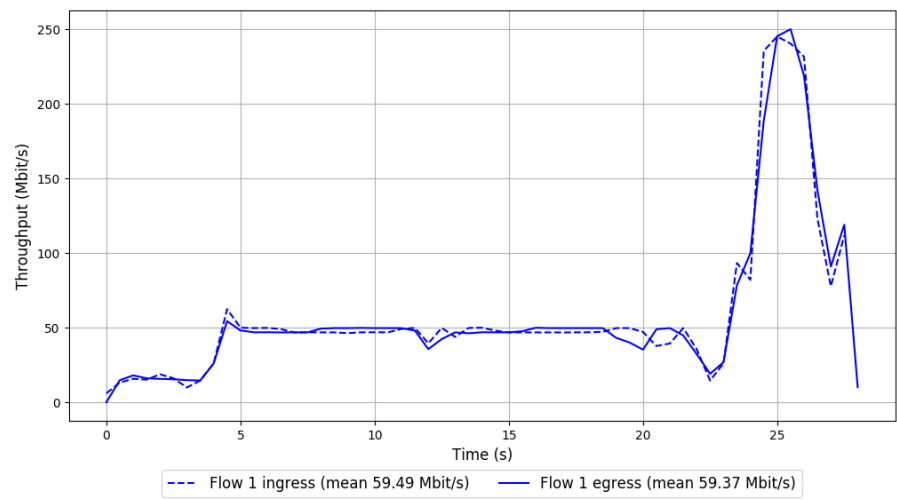


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-08 22:49:53
End at: 2018-01-08 22:50:23

# Below is generated by plot.py at 2018-01-09 00:17:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.37 Mbit/s
95th percentile per-packet one-way delay: 100.166 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 59.37 Mbit/s
95th percentile per-packet one-way delay: 100.166 ms
Loss rate: 0.20%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-08 21:01:03

End at: 2018-01-08 21:01:33

Below is generated by plot.py at 2018-01-09 00:17:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.29 Mbit/s

95th percentile per-packet one-way delay: 106.612 ms

Loss rate: 0.00%

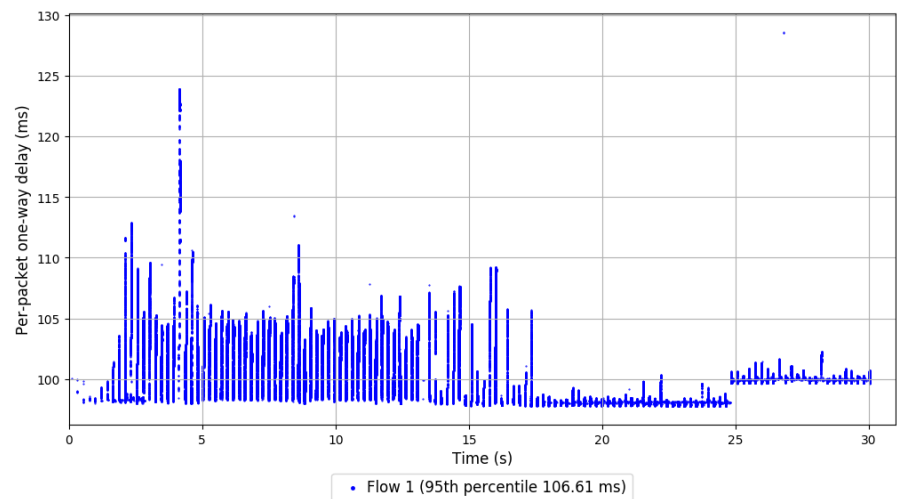
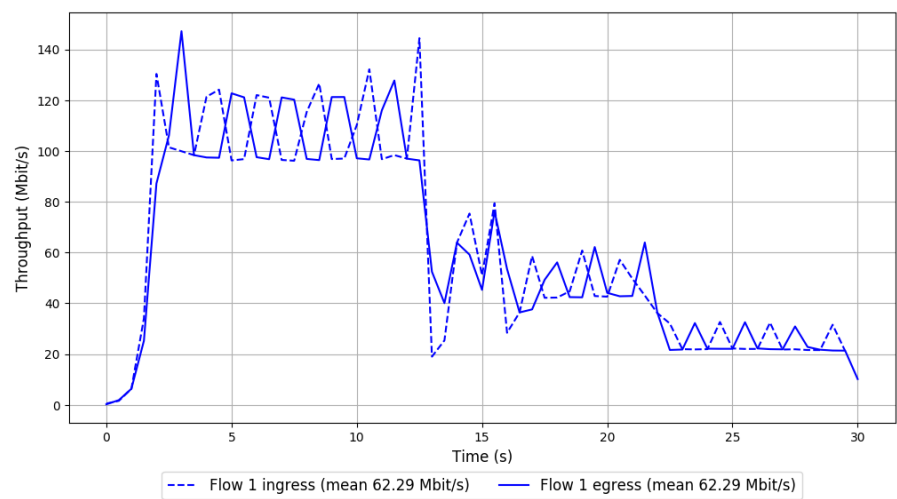
-- Flow 1:

Average throughput: 62.29 Mbit/s

95th percentile per-packet one-way delay: 106.612 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-08 21:13:43

End at: 2018-01-08 21:14:13

Below is generated by plot.py at 2018-01-09 00:17:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.67 Mbit/s

95th percentile per-packet one-way delay: 98.078 ms

Loss rate: 1.39%

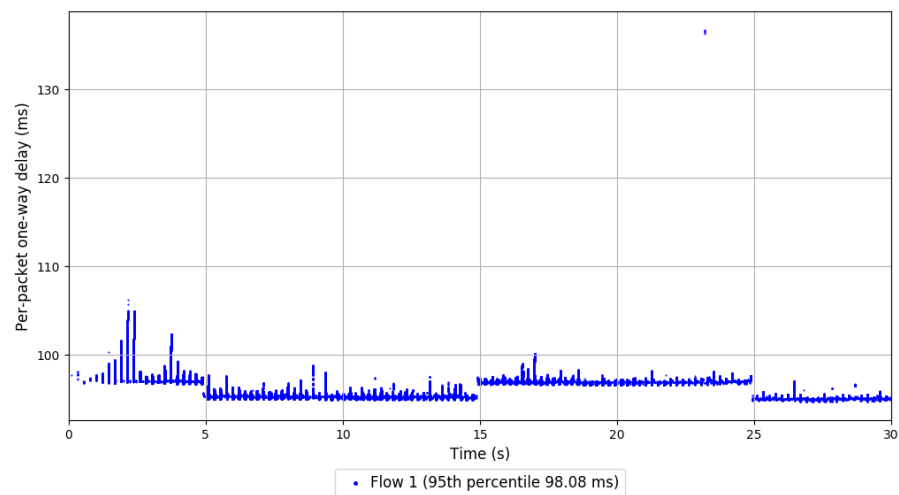
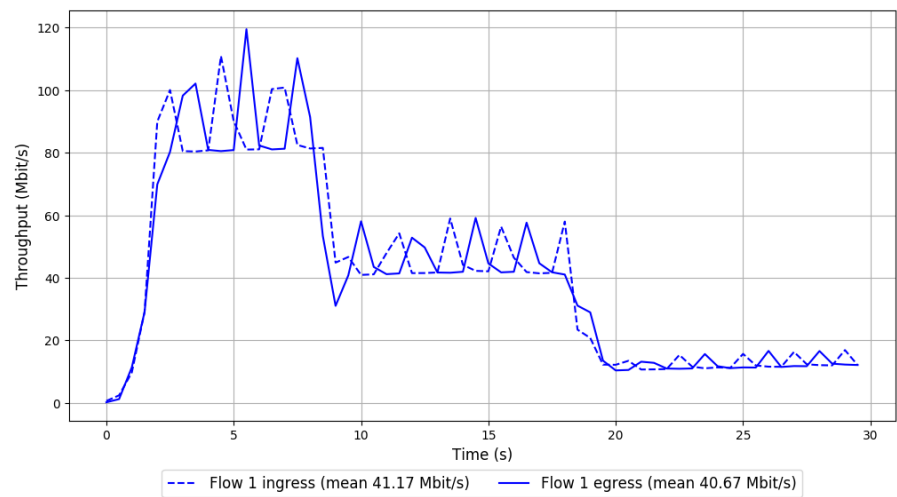
-- Flow 1:

Average throughput: 40.67 Mbit/s

95th percentile per-packet one-way delay: 98.078 ms

Loss rate: 1.39%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-08 21:25:57

End at: 2018-01-08 21:26:27

Below is generated by plot.py at 2018-01-09 00:17:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.15 Mbit/s

95th percentile per-packet one-way delay: 94.457 ms

Loss rate: 0.80%

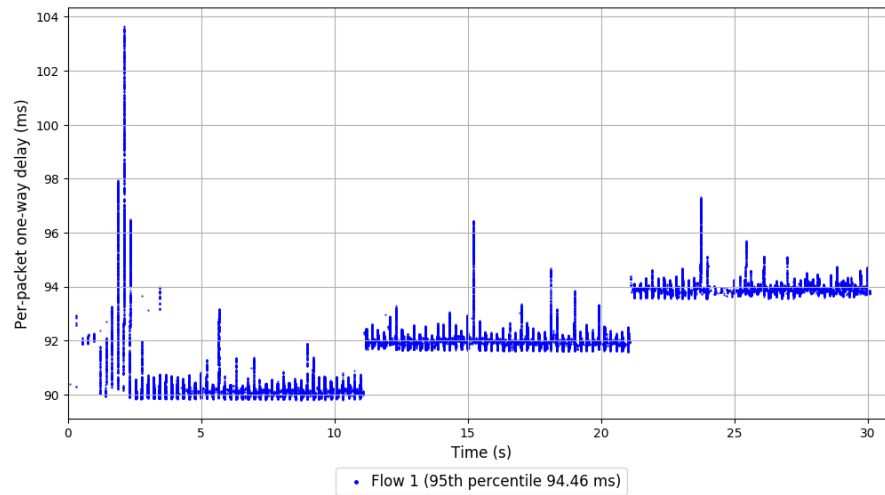
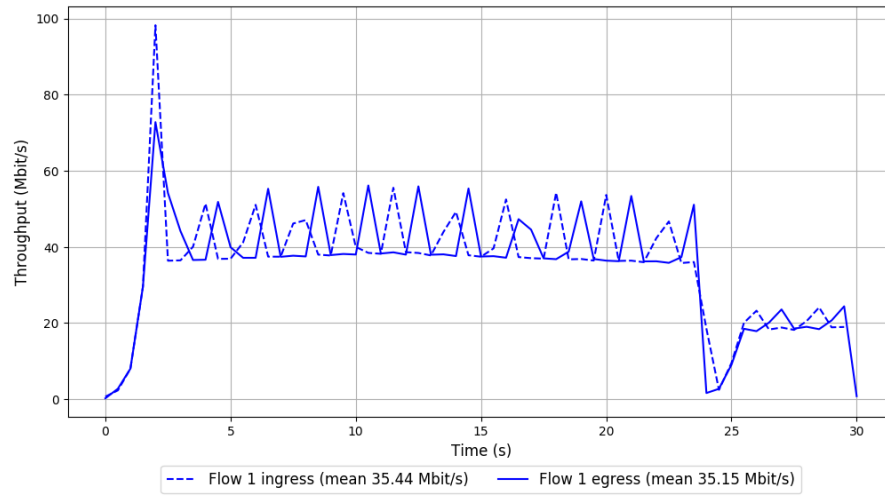
-- Flow 1:

Average throughput: 35.15 Mbit/s

95th percentile per-packet one-way delay: 94.457 ms

Loss rate: 0.80%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-08 21:38:23

End at: 2018-01-08 21:38:53

Below is generated by plot.py at 2018-01-09 00:17:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.53 Mbit/s

95th percentile per-packet one-way delay: 96.529 ms

Loss rate: 0.01%

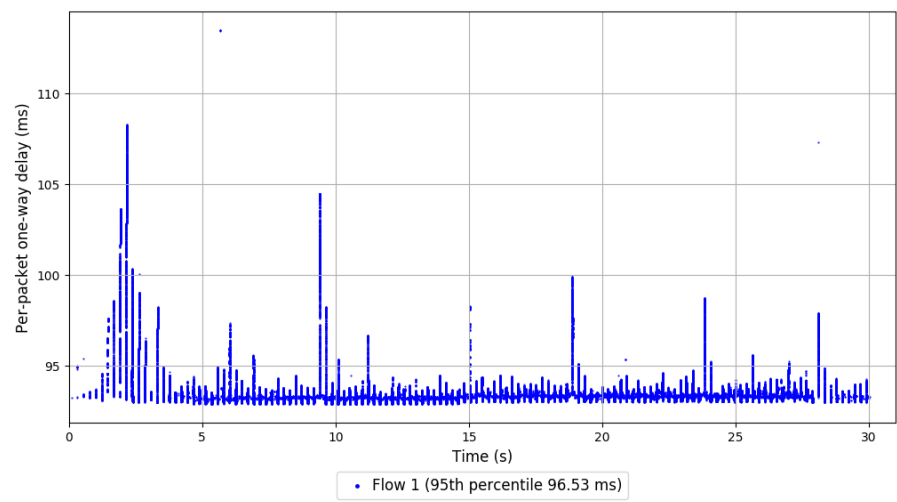
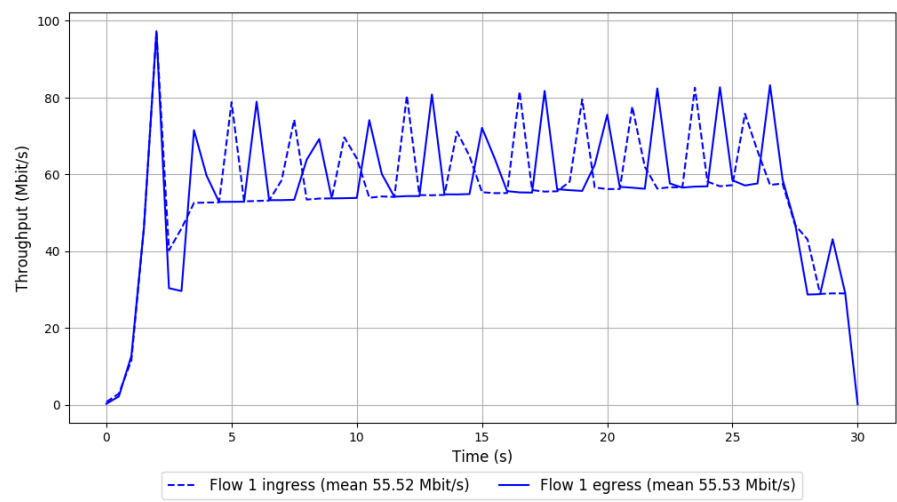
-- Flow 1:

Average throughput: 55.53 Mbit/s

95th percentile per-packet one-way delay: 96.529 ms

Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-08 21:50:59

End at: 2018-01-08 21:51:29

Below is generated by plot.py at 2018-01-09 00:17:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.48 Mbit/s

95th percentile per-packet one-way delay: 101.354 ms

Loss rate: 0.00%

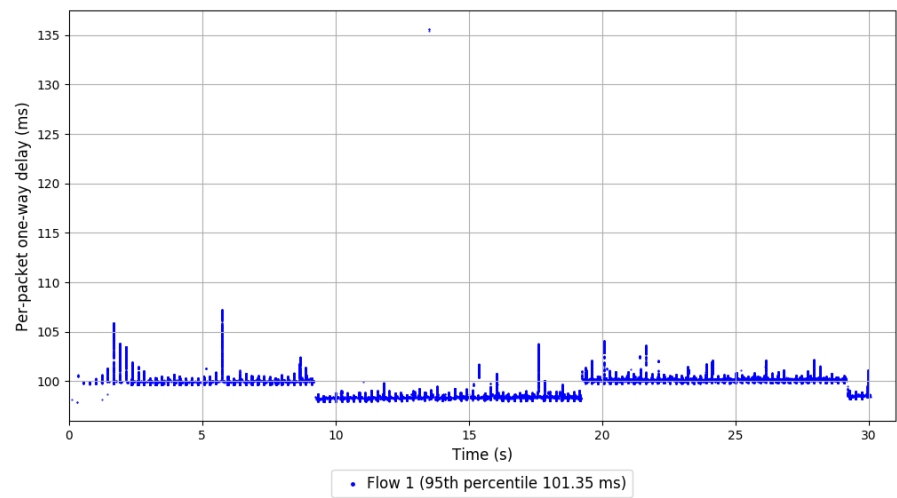
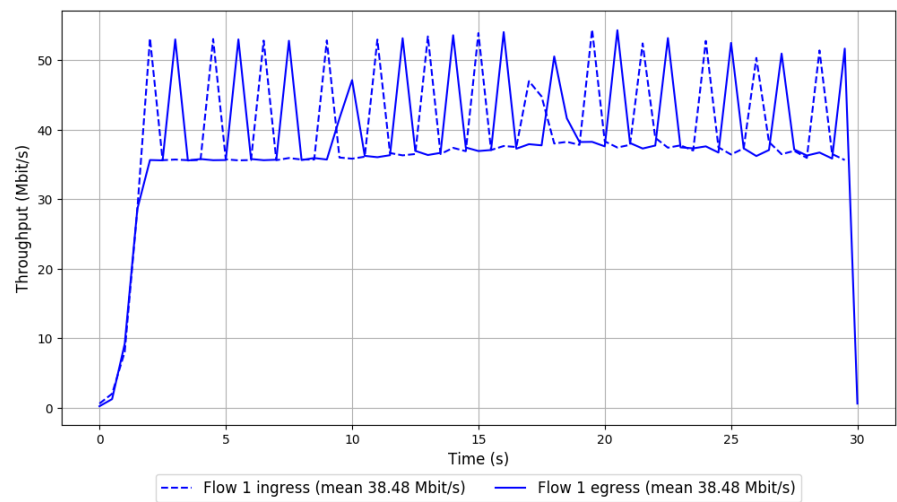
-- Flow 1:

Average throughput: 38.48 Mbit/s

95th percentile per-packet one-way delay: 101.354 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-08 22:03:29

End at: 2018-01-08 22:03:59

Below is generated by plot.py at 2018-01-09 00:17:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.62 Mbit/s

95th percentile per-packet one-way delay: 103.413 ms

Loss rate: 0.01%

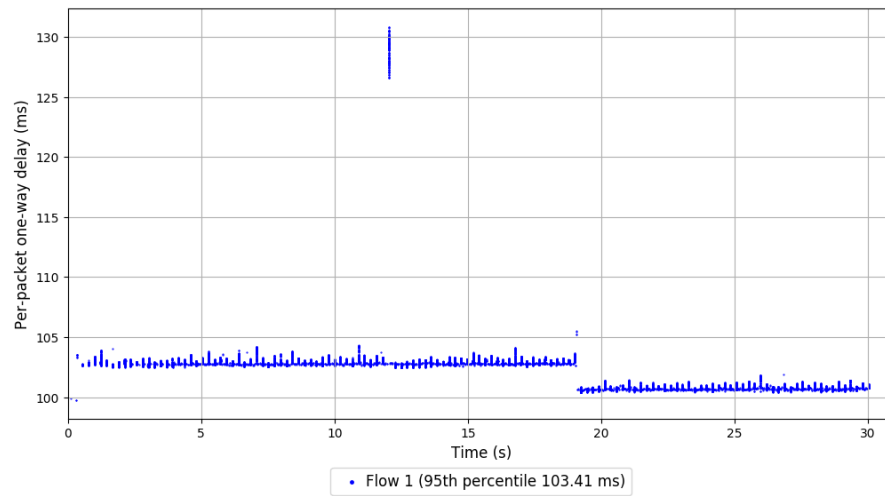
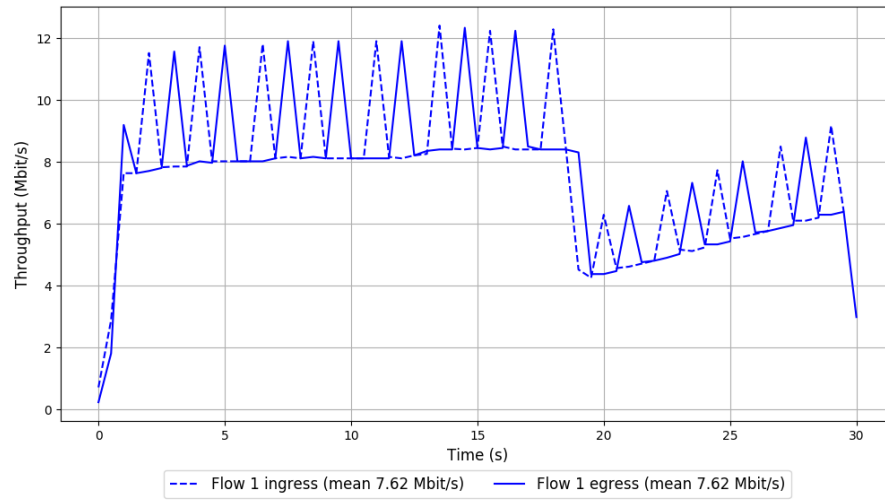
-- Flow 1:

Average throughput: 7.62 Mbit/s

95th percentile per-packet one-way delay: 103.413 ms

Loss rate: 0.01%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-08 22:16:08

End at: 2018-01-08 22:16:38

Below is generated by plot.py at 2018-01-09 00:17:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.67 Mbit/s

95th percentile per-packet one-way delay: 102.772 ms

Loss rate: 0.00%

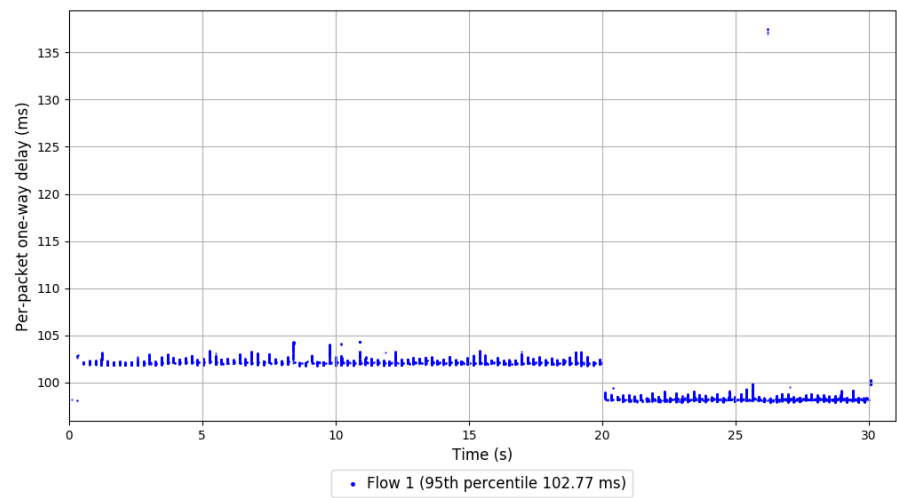
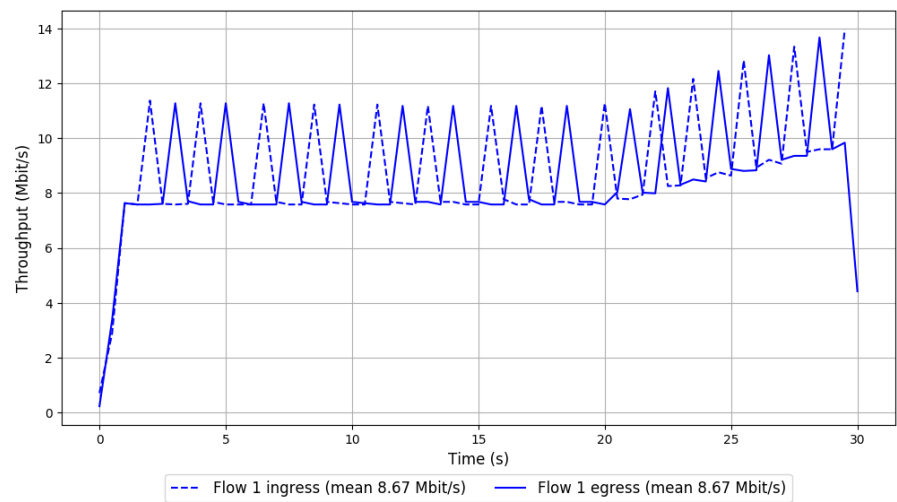
-- Flow 1:

Average throughput: 8.67 Mbit/s

95th percentile per-packet one-way delay: 102.772 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-08 22:28:15

End at: 2018-01-08 22:28:45

Below is generated by plot.py at 2018-01-09 00:17:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.77 Mbit/s

95th percentile per-packet one-way delay: 100.096 ms

Loss rate: 0.00%

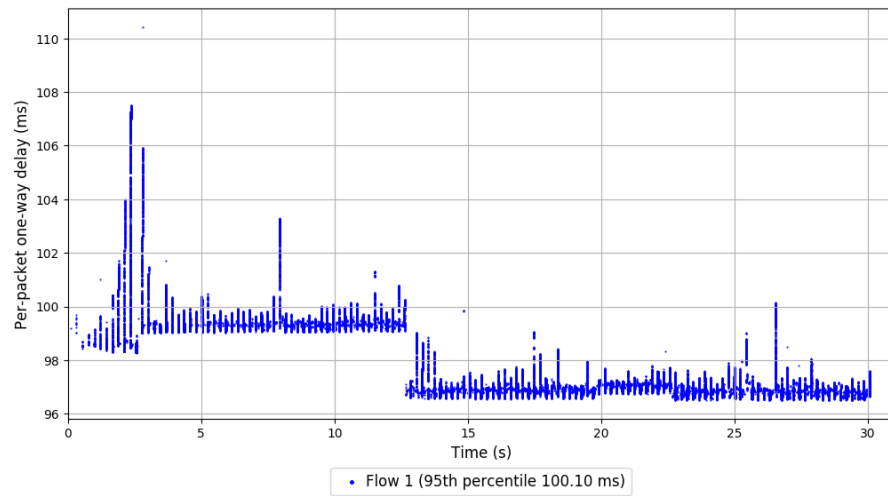
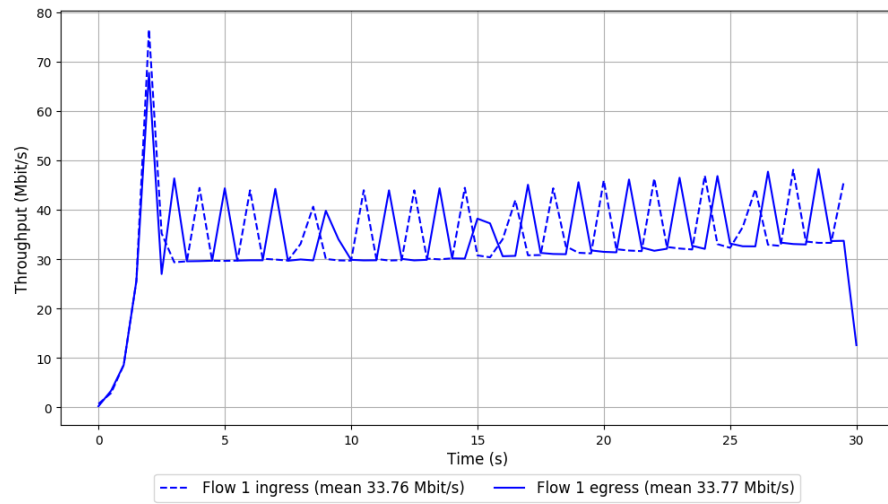
-- Flow 1:

Average throughput: 33.77 Mbit/s

95th percentile per-packet one-way delay: 100.096 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-08 22:40:36

End at: 2018-01-08 22:41:06

Below is generated by plot.py at 2018-01-09 00:17:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.96 Mbit/s

95th percentile per-packet one-way delay: 99.598 ms

Loss rate: 0.00%

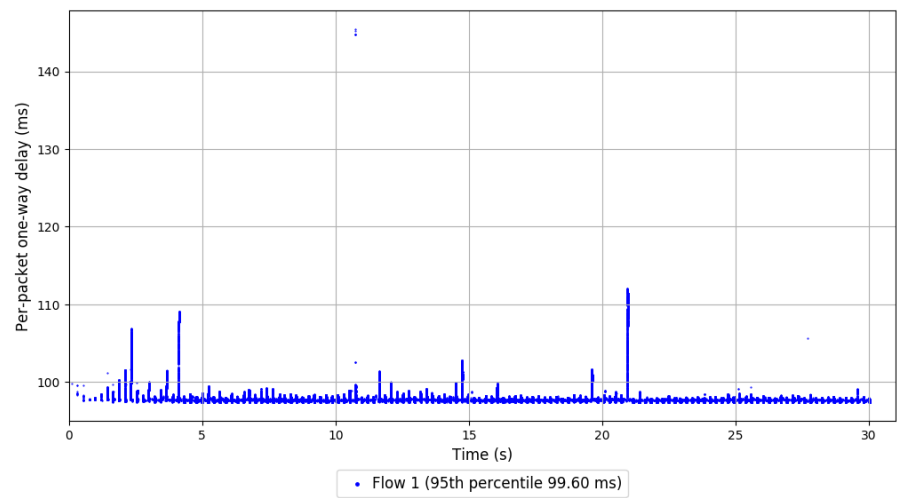
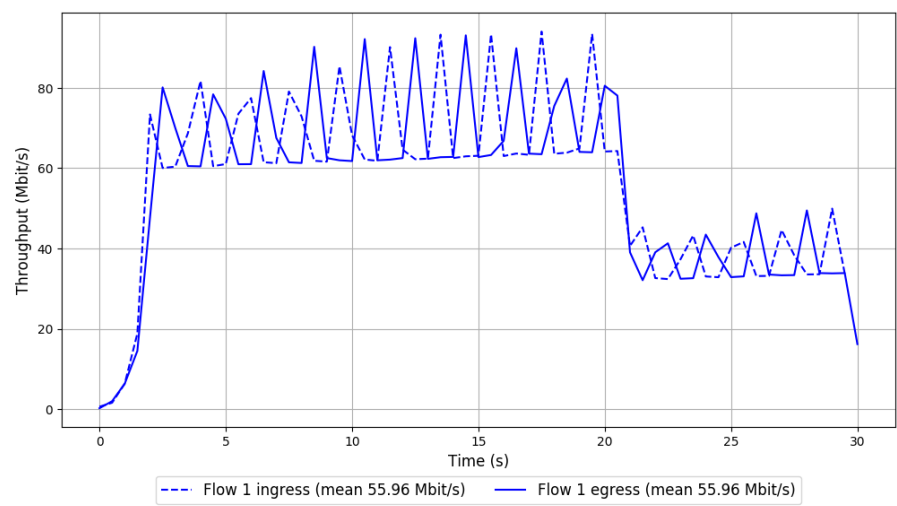
-- Flow 1:

Average throughput: 55.96 Mbit/s

95th percentile per-packet one-way delay: 99.598 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-08 22:53:09

End at: 2018-01-08 22:53:39

Below is generated by plot.py at 2018-01-09 00:17:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.48 Mbit/s

95th percentile per-packet one-way delay: 100.419 ms

Loss rate: 0.00%

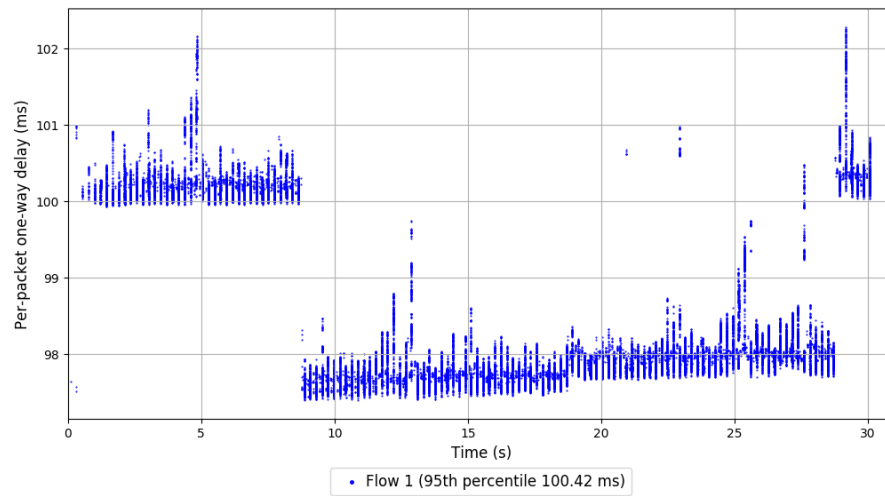
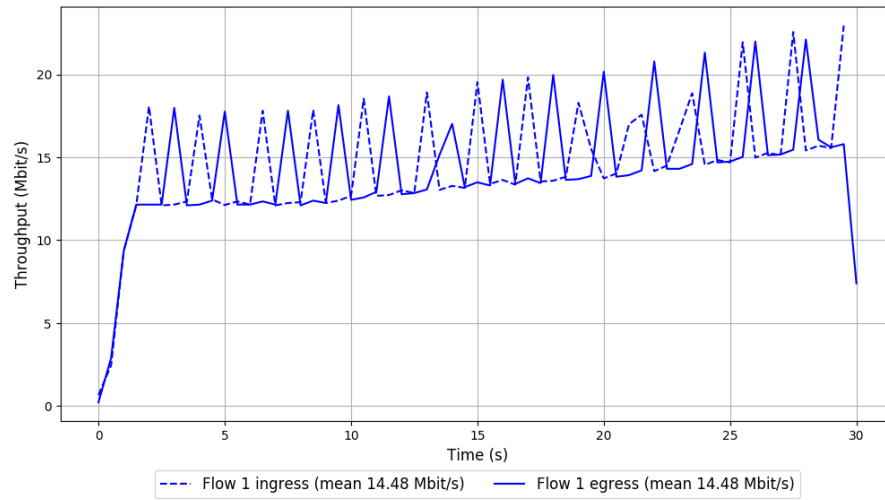
-- Flow 1:

Average throughput: 14.48 Mbit/s

95th percentile per-packet one-way delay: 100.419 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

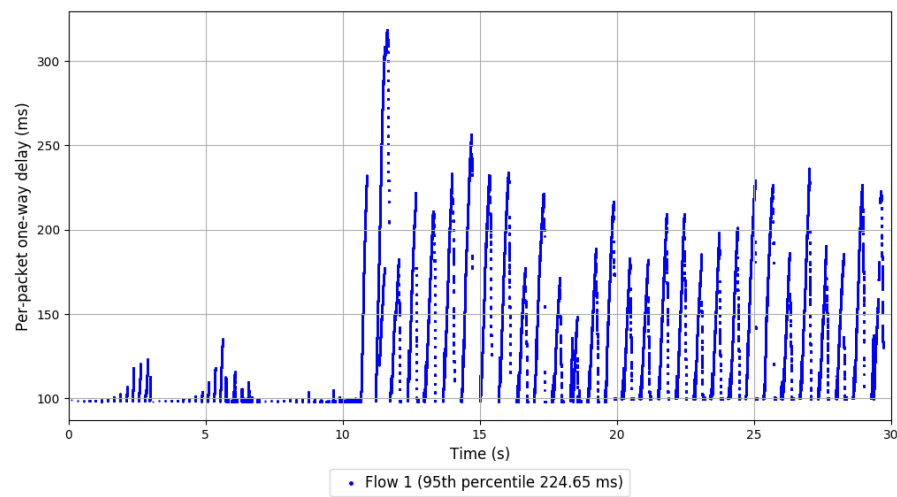
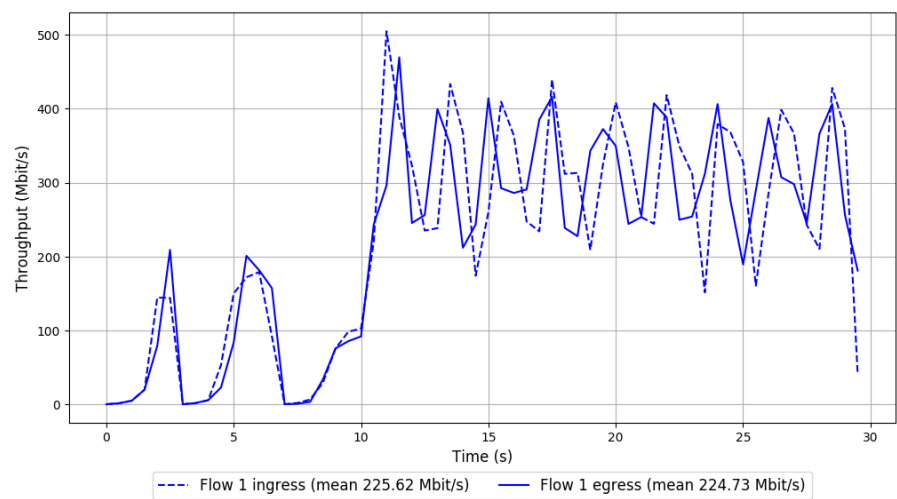


```
Run 1: Statistics of Verus

Start at: 2018-01-08 21:01:48
End at: 2018-01-08 21:02:18

# Below is generated by plot.py at 2018-01-09 00:21:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 224.73 Mbit/s
95th percentile per-packet one-way delay: 224.651 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 224.73 Mbit/s
95th percentile per-packet one-way delay: 224.651 ms
Loss rate: 0.29%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-08 21:14:27

End at: 2018-01-08 21:14:57

Below is generated by plot.py at 2018-01-09 00:21:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 254.39 Mbit/s

95th percentile per-packet one-way delay: 255.362 ms

Loss rate: 1.28%

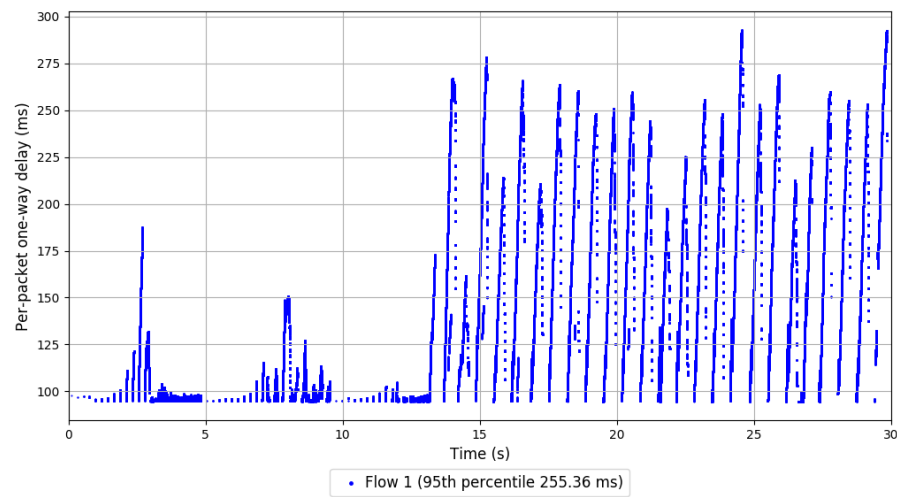
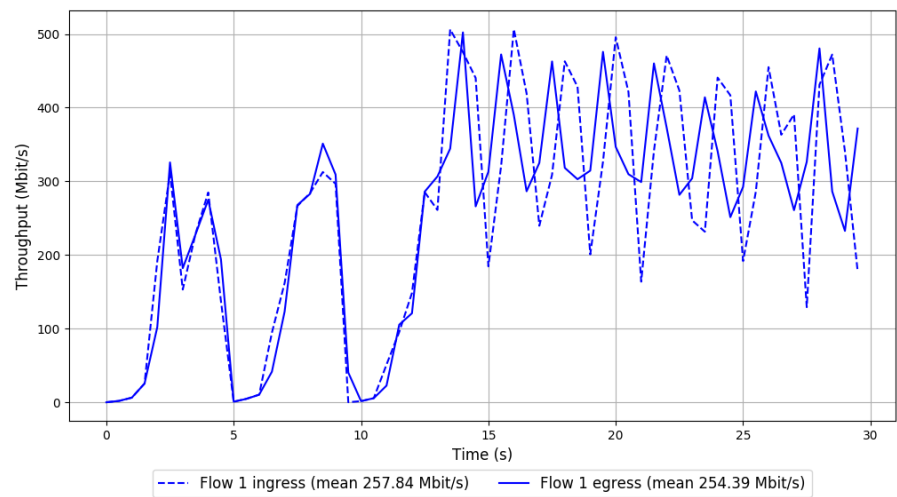
-- Flow 1:

Average throughput: 254.39 Mbit/s

95th percentile per-packet one-way delay: 255.362 ms

Loss rate: 1.28%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-08 21:26:40

End at: 2018-01-08 21:27:10

Below is generated by plot.py at 2018-01-09 00:21:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.37 Mbit/s

95th percentile per-packet one-way delay: 144.451 ms

Loss rate: 0.00%

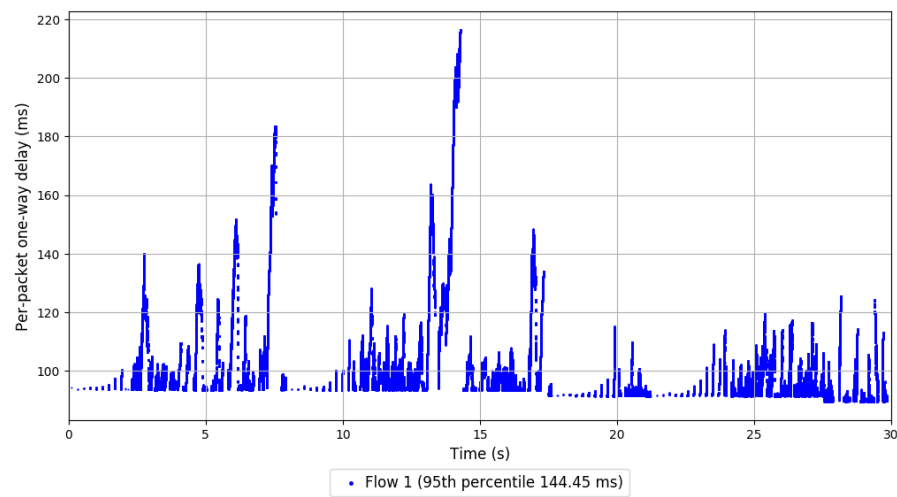
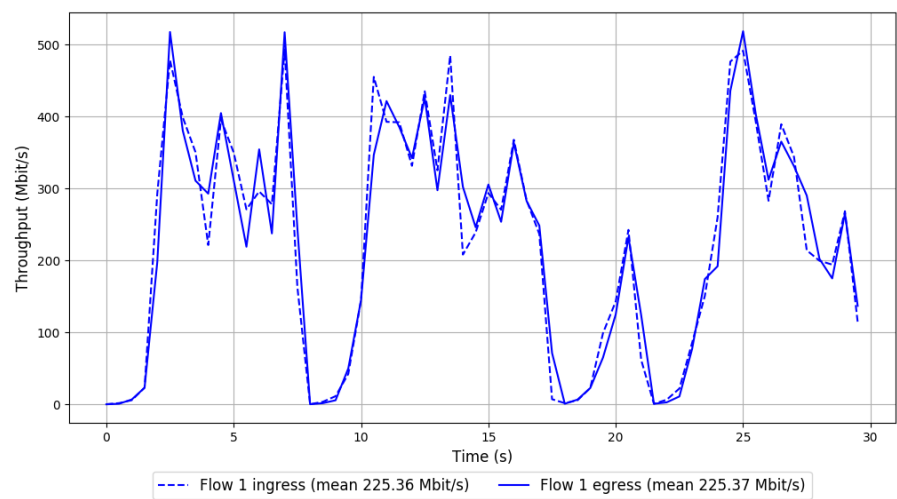
-- Flow 1:

Average throughput: 225.37 Mbit/s

95th percentile per-packet one-way delay: 144.451 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-08 21:39:08

End at: 2018-01-08 21:39:38

Below is generated by plot.py at 2018-01-09 00:21:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 127.32 Mbit/s

95th percentile per-packet one-way delay: 122.130 ms

Loss rate: 0.21%

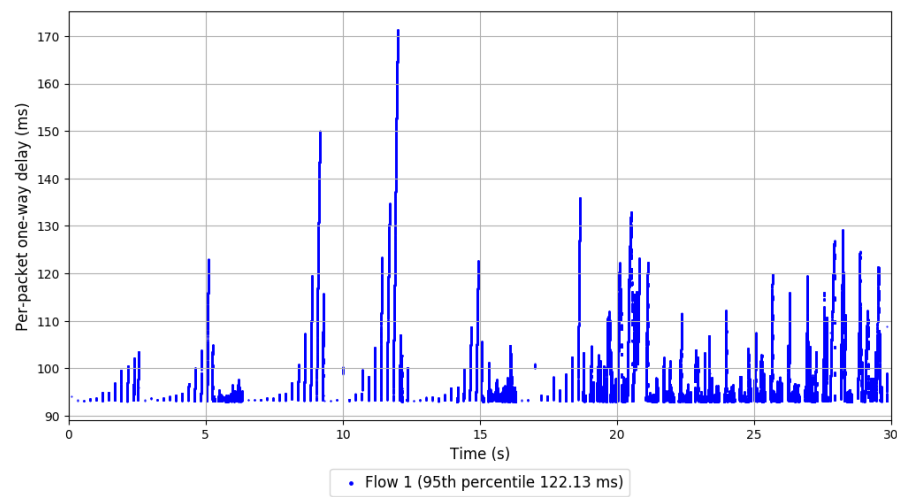
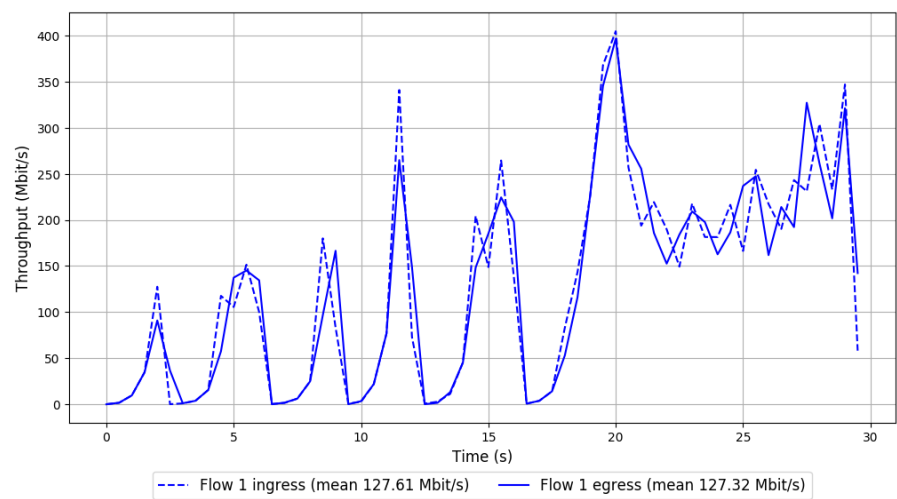
-- Flow 1:

Average throughput: 127.32 Mbit/s

95th percentile per-packet one-way delay: 122.130 ms

Loss rate: 0.21%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-08 21:51:42

End at: 2018-01-08 21:52:12

Below is generated by plot.py at 2018-01-09 00:21:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.65 Mbit/s

95th percentile per-packet one-way delay: 167.195 ms

Loss rate: 0.11%

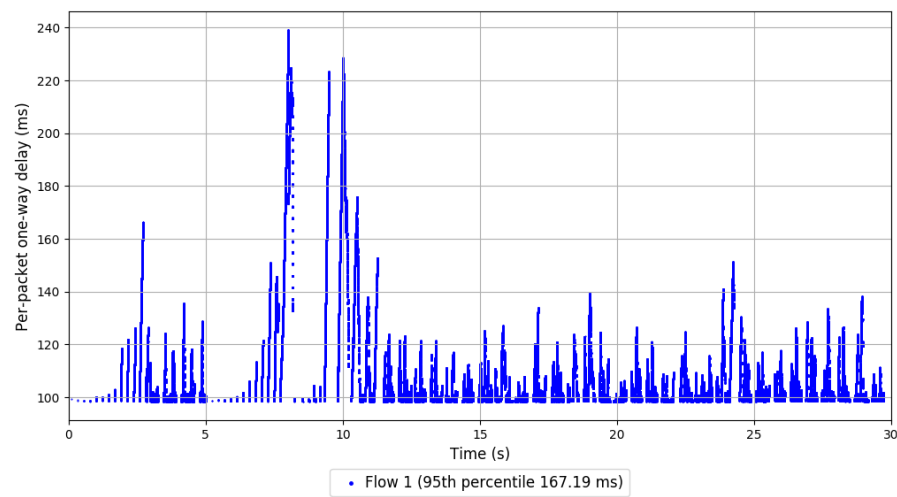
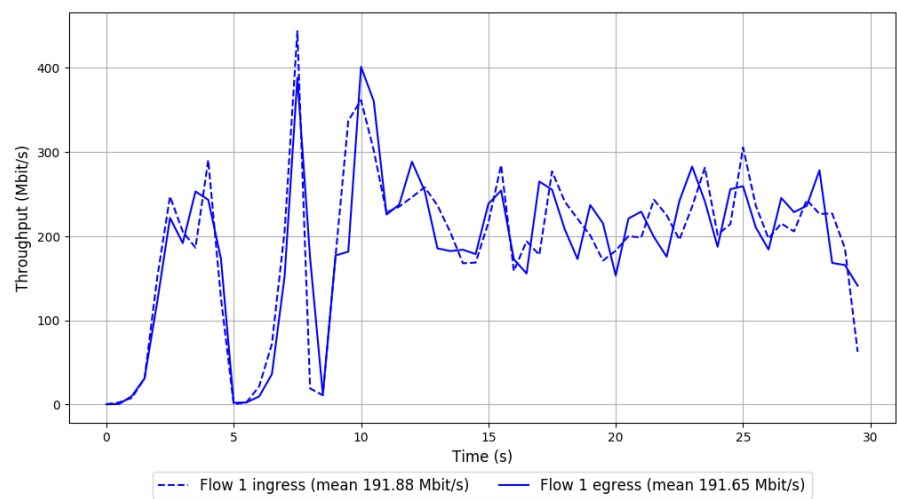
-- Flow 1:

Average throughput: 191.65 Mbit/s

95th percentile per-packet one-way delay: 167.195 ms

Loss rate: 0.11%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-08 22:04:10

End at: 2018-01-08 22:04:40

Below is generated by plot.py at 2018-01-09 00:22:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 262.92 Mbit/s

95th percentile per-packet one-way delay: 160.125 ms

Loss rate: 0.26%

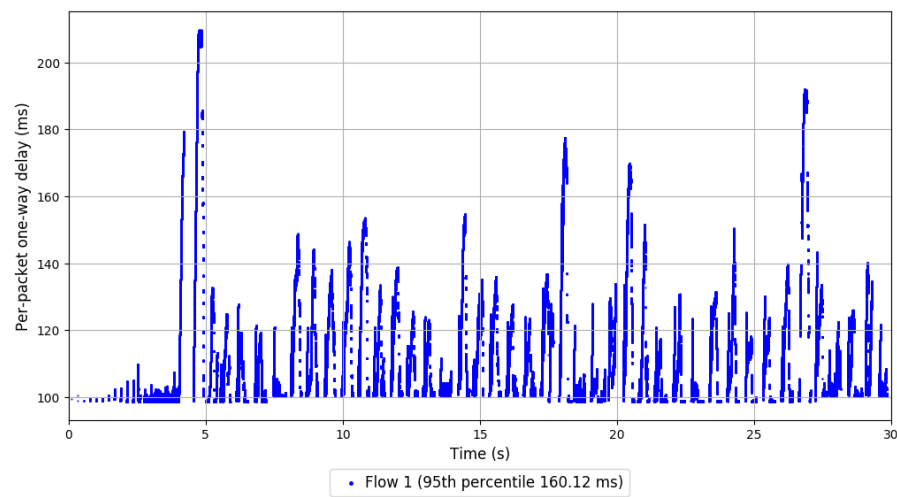
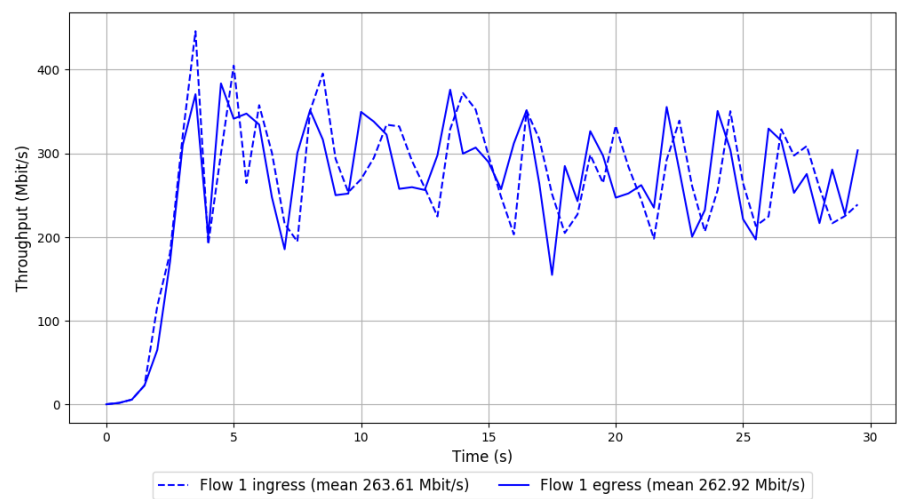
-- Flow 1:

Average throughput: 262.92 Mbit/s

95th percentile per-packet one-way delay: 160.125 ms

Loss rate: 0.26%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-08 22:16:50

End at: 2018-01-08 22:17:20

Below is generated by plot.py at 2018-01-09 00:22:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.41 Mbit/s

95th percentile per-packet one-way delay: 137.683 ms

Loss rate: 0.01%

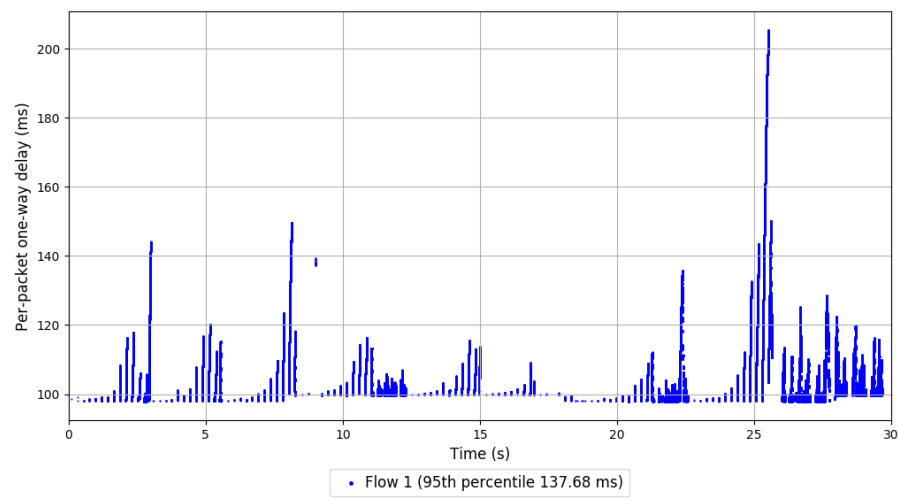
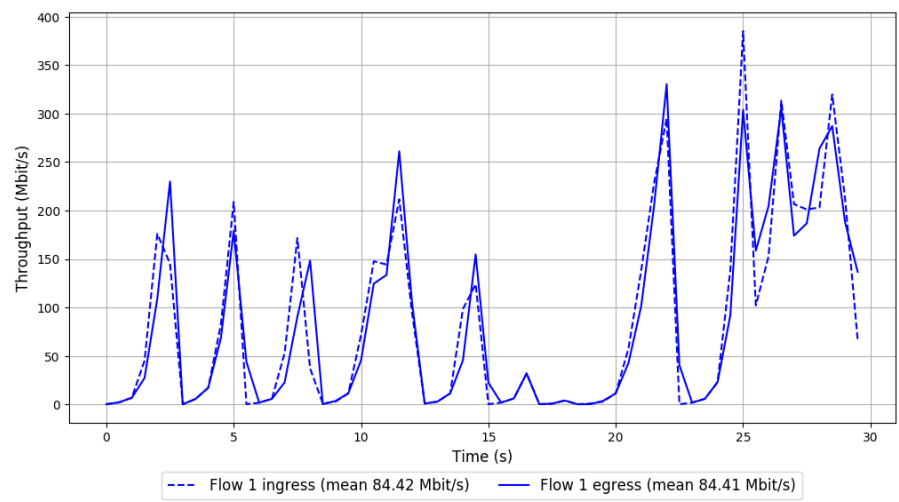
-- Flow 1:

Average throughput: 84.41 Mbit/s

95th percentile per-packet one-way delay: 137.683 ms

Loss rate: 0.01%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-08 22:28:58

End at: 2018-01-08 22:29:28

Below is generated by plot.py at 2018-01-09 00:22:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.08 Mbit/s

95th percentile per-packet one-way delay: 150.489 ms

Loss rate: 0.01%

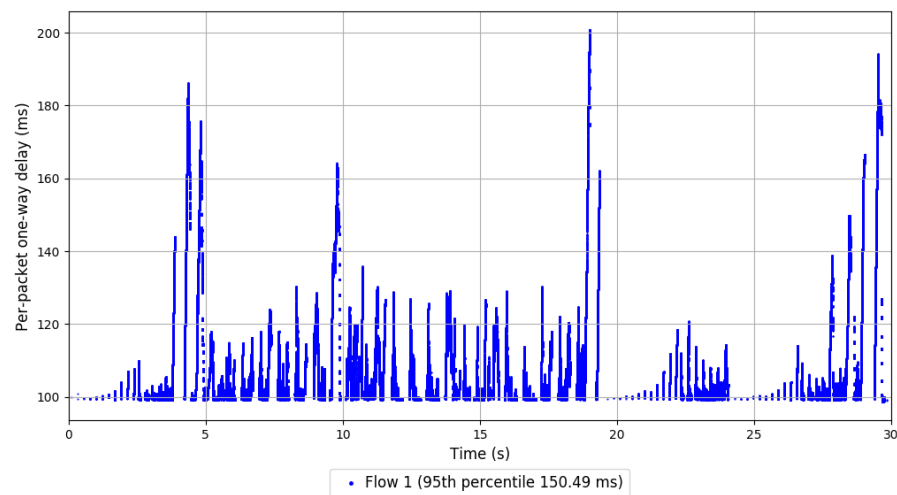
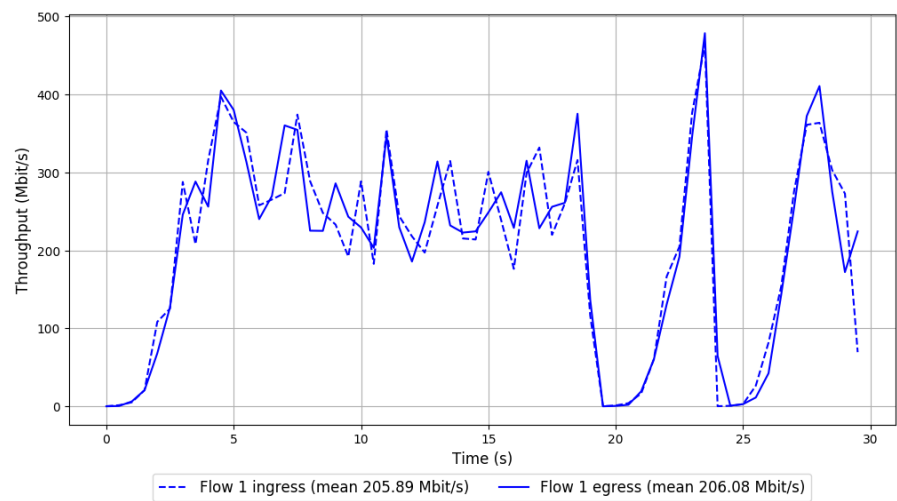
-- Flow 1:

Average throughput: 206.08 Mbit/s

95th percentile per-packet one-way delay: 150.489 ms

Loss rate: 0.01%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-08 22:41:21

End at: 2018-01-08 22:41:51

Below is generated by plot.py at 2018-01-09 00:23:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 234.31 Mbit/s

95th percentile per-packet one-way delay: 186.165 ms

Loss rate: 0.47%

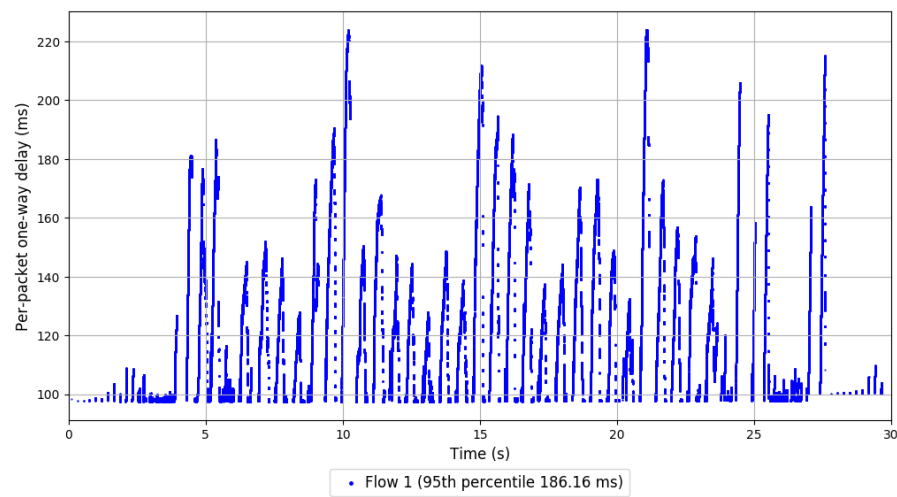
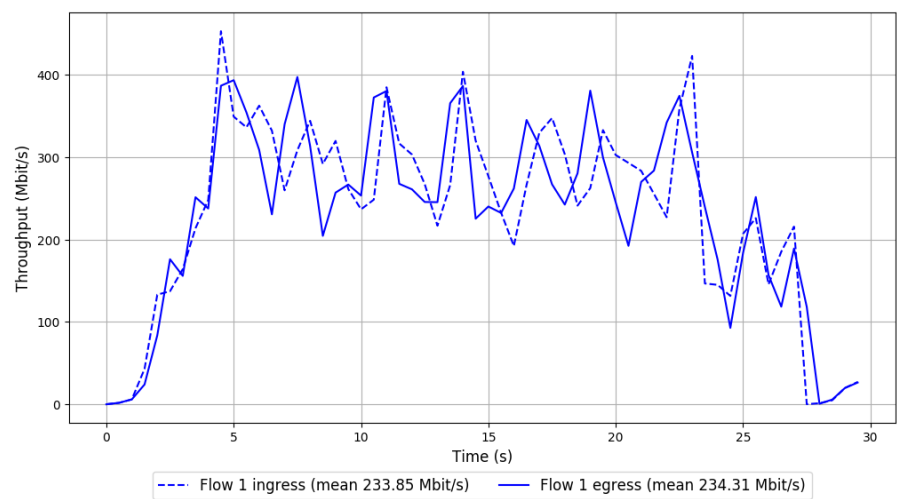
-- Flow 1:

Average throughput: 234.31 Mbit/s

95th percentile per-packet one-way delay: 186.165 ms

Loss rate: 0.47%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-08 22:53:51

End at: 2018-01-08 22:54:21

Below is generated by plot.py at 2018-01-09 00:23:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 232.79 Mbit/s

95th percentile per-packet one-way delay: 146.273 ms

Loss rate: 0.00%

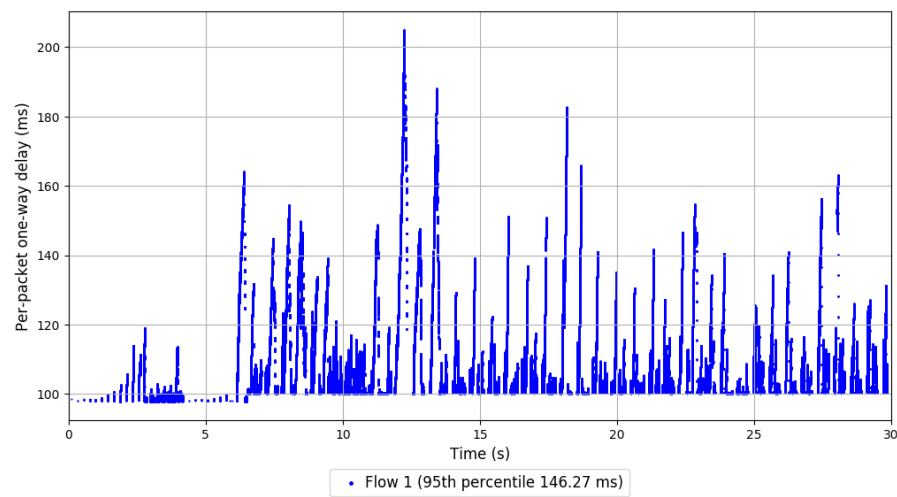
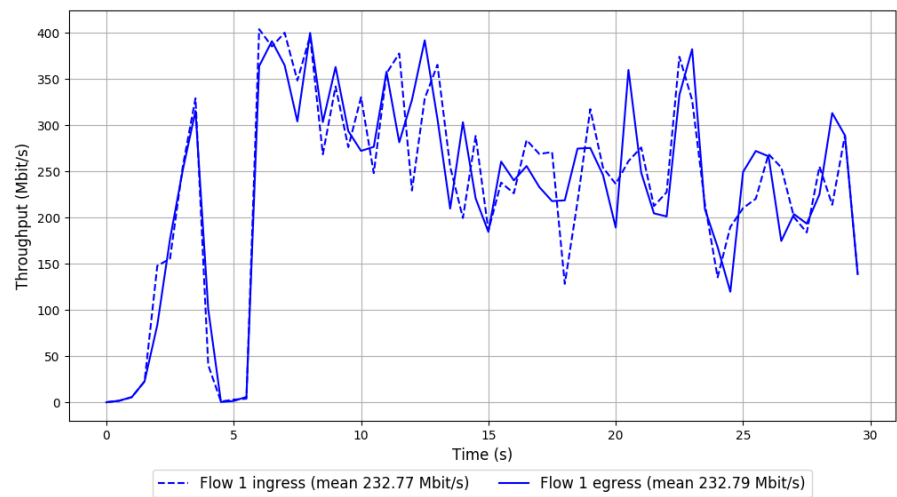
-- Flow 1:

Average throughput: 232.79 Mbit/s

95th percentile per-packet one-way delay: 146.273 ms

Loss rate: 0.00%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-01-08 21:03:40

End at: 2018-01-08 21:04:10

Below is generated by plot.py at 2018-01-09 00:23:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.33 Mbit/s

95th percentile per-packet one-way delay: 99.645 ms

Loss rate: 0.00%

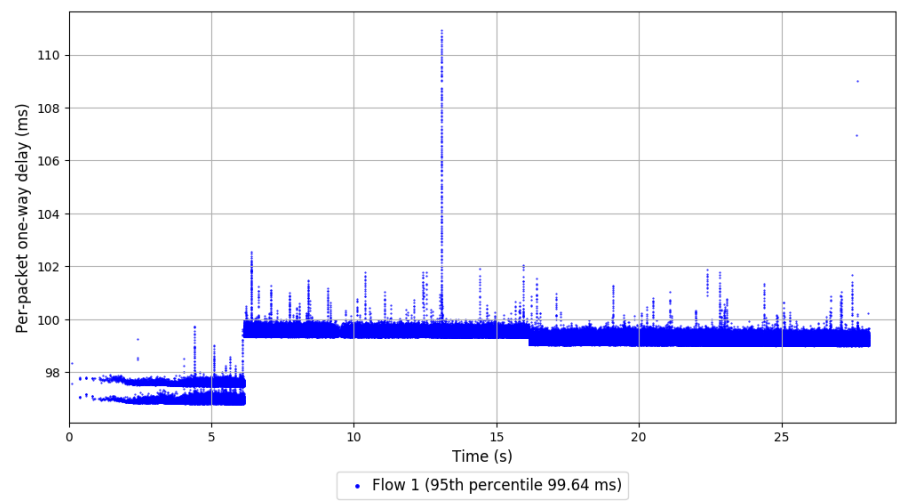
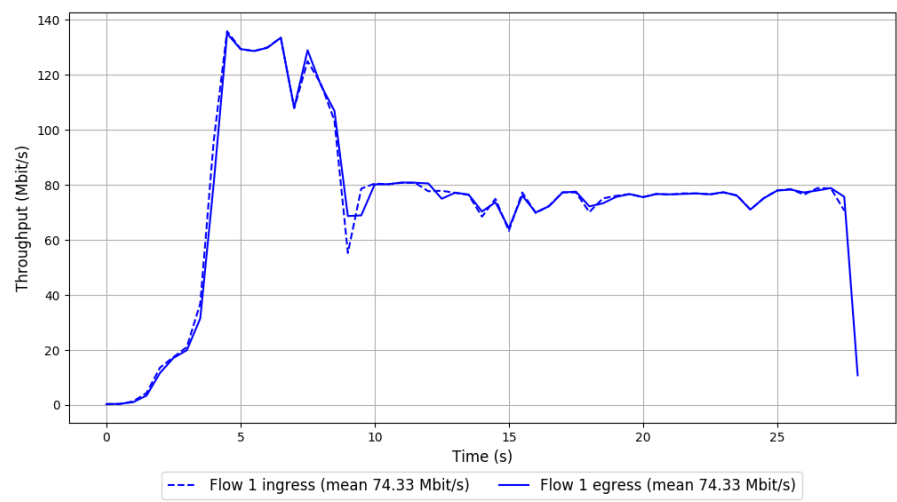
-- Flow 1:

Average throughput: 74.33 Mbit/s

95th percentile per-packet one-way delay: 99.645 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-08 21:16:22

End at: 2018-01-08 21:16:52

Below is generated by plot.py at 2018-01-09 00:23:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.11 Mbit/s

95th percentile per-packet one-way delay: 95.646 ms

Loss rate: 0.00%

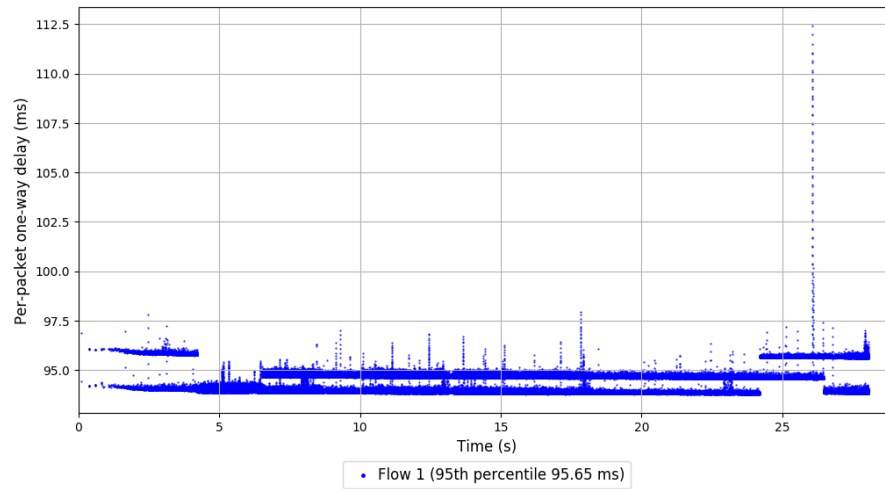
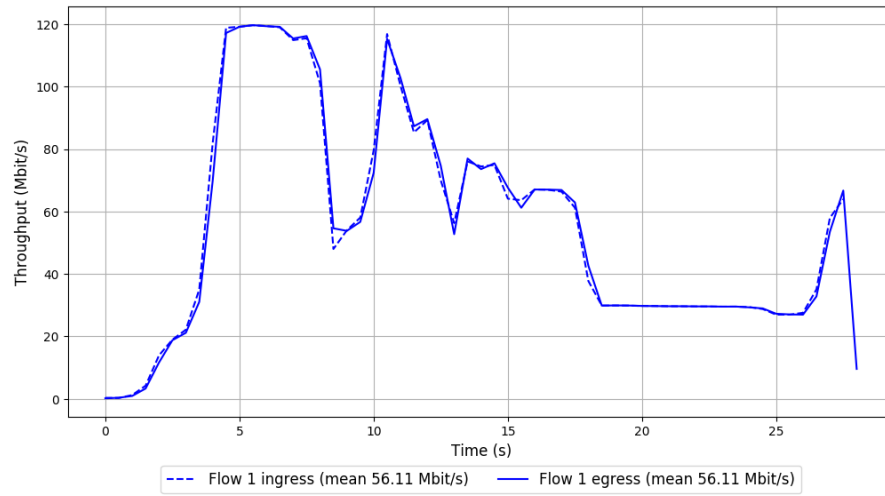
-- Flow 1:

Average throughput: 56.11 Mbit/s

95th percentile per-packet one-way delay: 95.646 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-08 21:28:32

End at: 2018-01-08 21:29:02

Below is generated by plot.py at 2018-01-09 00:23:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.10 Mbit/s

95th percentile per-packet one-way delay: 91.052 ms

Loss rate: 0.00%

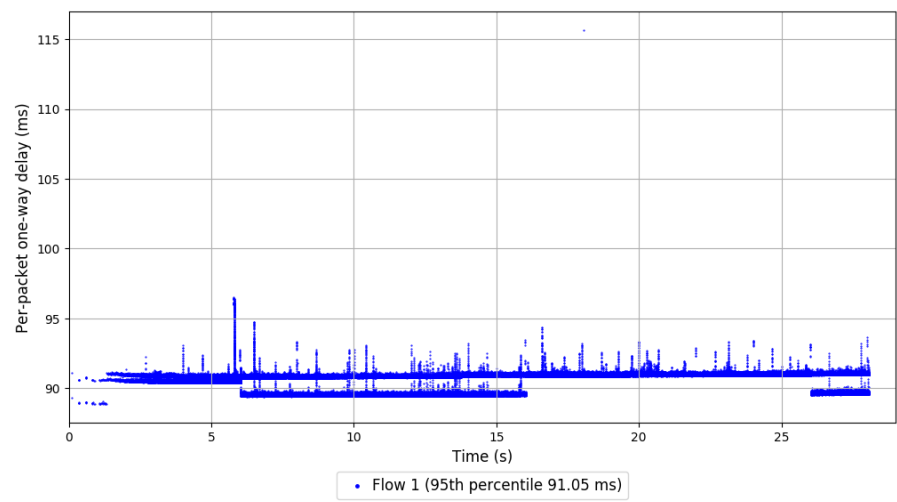
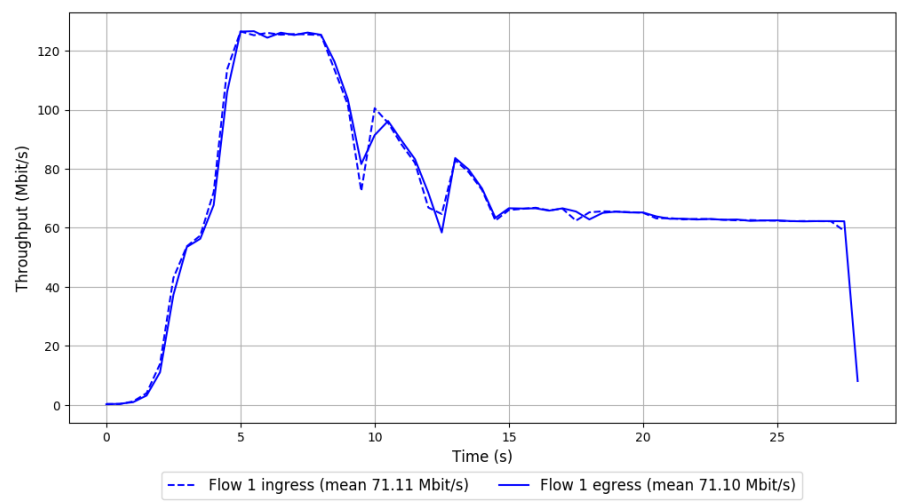
-- Flow 1:

Average throughput: 71.10 Mbit/s

95th percentile per-packet one-way delay: 91.052 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-08 21:40:52

End at: 2018-01-08 21:41:22

Below is generated by plot.py at 2018-01-09 00:24:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.82 Mbit/s

95th percentile per-packet one-way delay: 93.249 ms

Loss rate: 0.00%

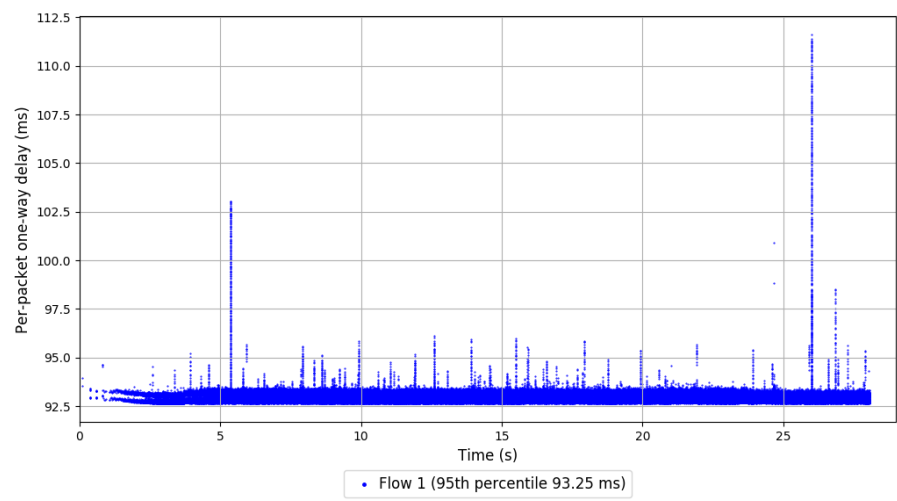
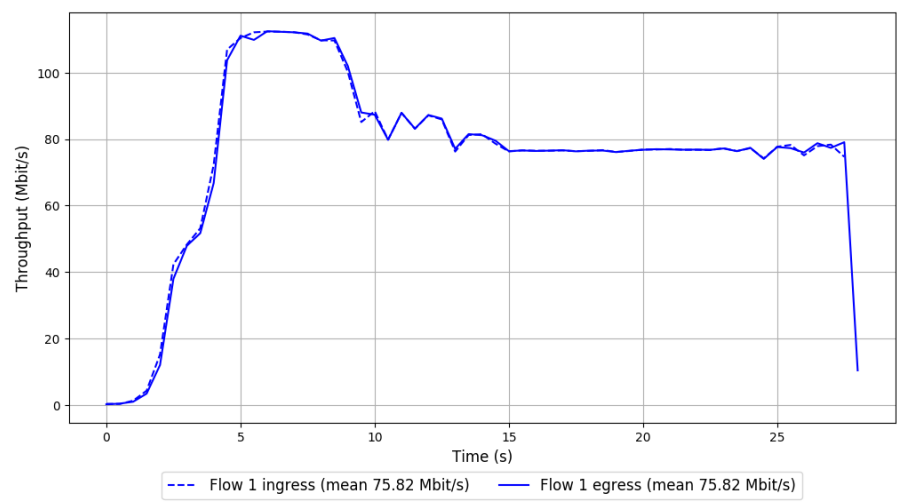
-- Flow 1:

Average throughput: 75.82 Mbit/s

95th percentile per-packet one-way delay: 93.249 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-08 21:53:32

End at: 2018-01-08 21:54:02

Below is generated by plot.py at 2018-01-09 00:24:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.62 Mbit/s

95th percentile per-packet one-way delay: 100.843 ms

Loss rate: 0.00%

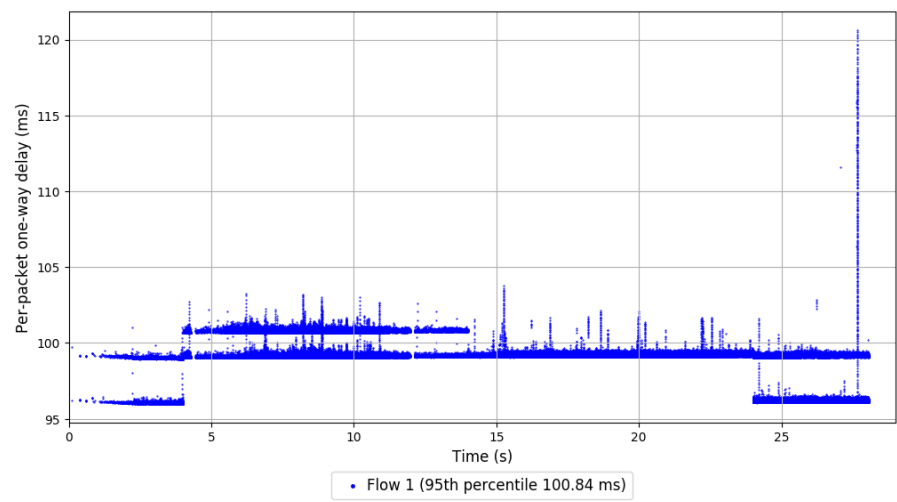
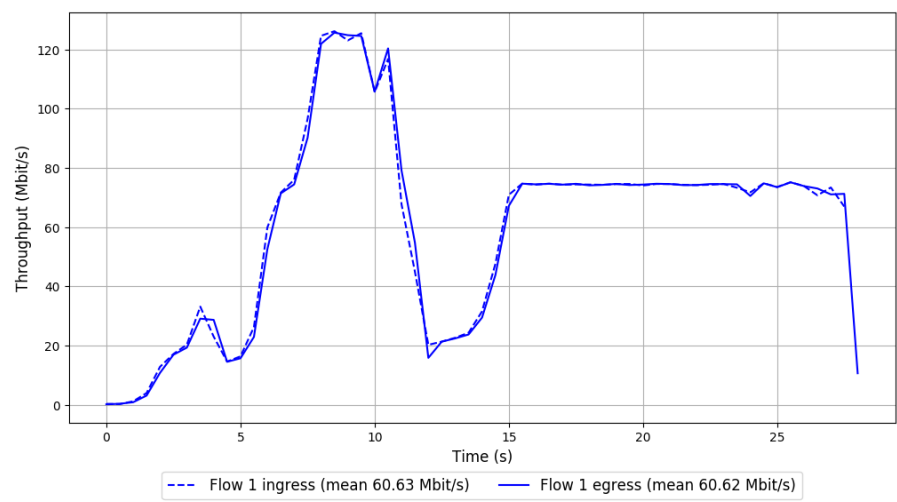
-- Flow 1:

Average throughput: 60.62 Mbit/s

95th percentile per-packet one-way delay: 100.843 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-08 22:06:05

End at: 2018-01-08 22:06:35

Below is generated by plot.py at 2018-01-09 00:24:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.53 Mbit/s

95th percentile per-packet one-way delay: 102.706 ms

Loss rate: 0.00%

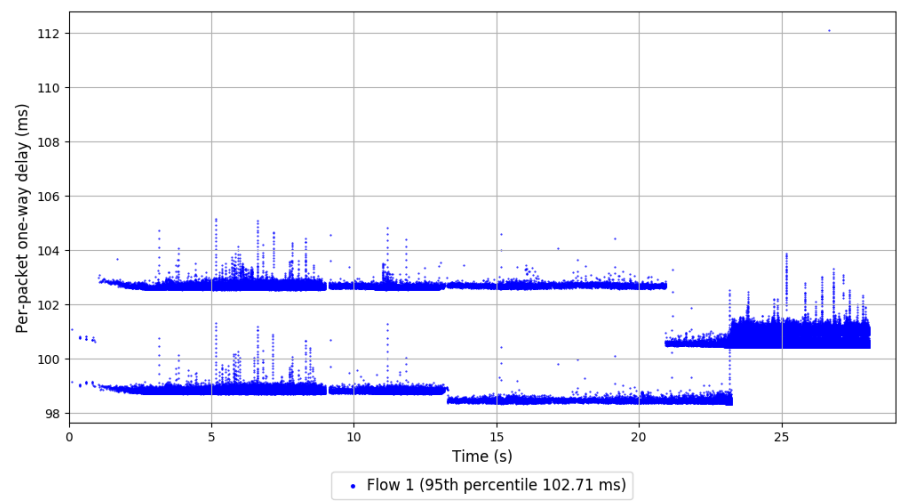
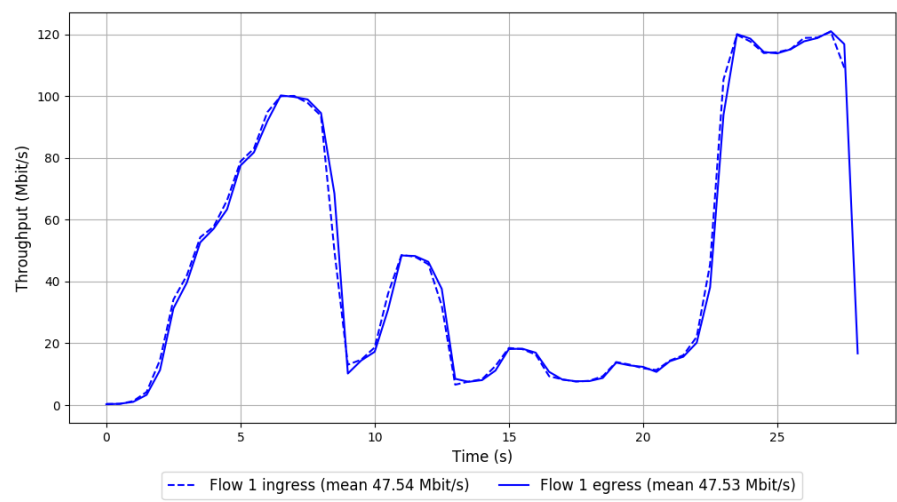
-- Flow 1:

Average throughput: 47.53 Mbit/s

95th percentile per-packet one-way delay: 102.706 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-08 22:18:31

End at: 2018-01-08 22:19:01

Below is generated by plot.py at 2018-01-09 00:24:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.91 Mbit/s

95th percentile per-packet one-way delay: 101.536 ms

Loss rate: 0.00%

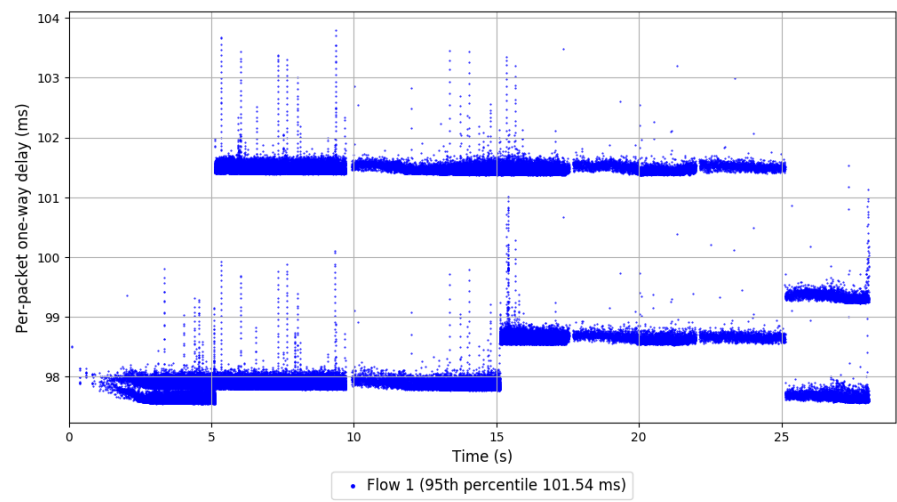
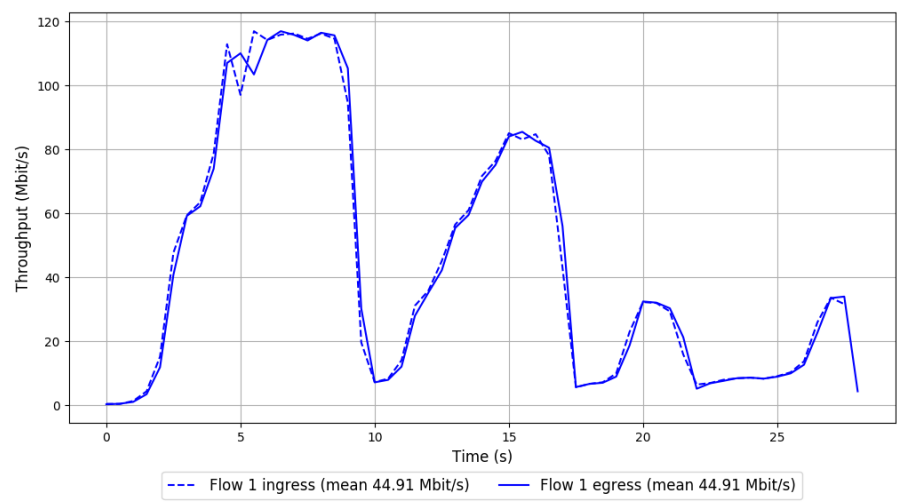
-- Flow 1:

Average throughput: 44.91 Mbit/s

95th percentile per-packet one-way delay: 101.536 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-08 22:30:49

End at: 2018-01-08 22:31:19

Below is generated by plot.py at 2018-01-09 00:25:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.74 Mbit/s

95th percentile per-packet one-way delay: 99.437 ms

Loss rate: 0.00%

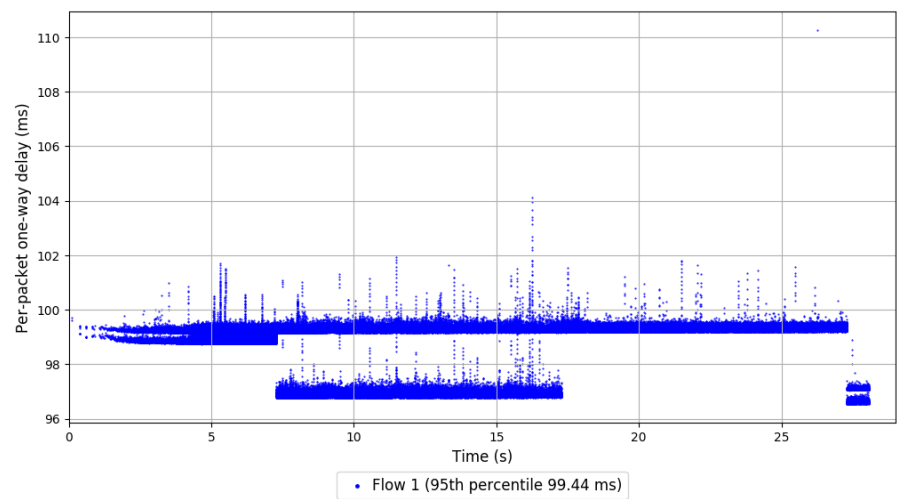
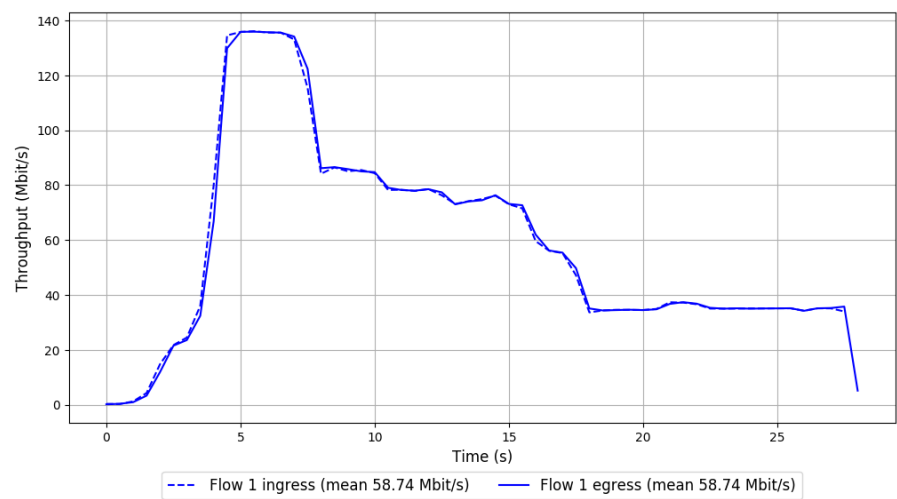
-- Flow 1:

Average throughput: 58.74 Mbit/s

95th percentile per-packet one-way delay: 99.437 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-08 22:43:14

End at: 2018-01-08 22:43:44

Below is generated by plot.py at 2018-01-09 00:25:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.36 Mbit/s

95th percentile per-packet one-way delay: 100.087 ms

Loss rate: 0.00%

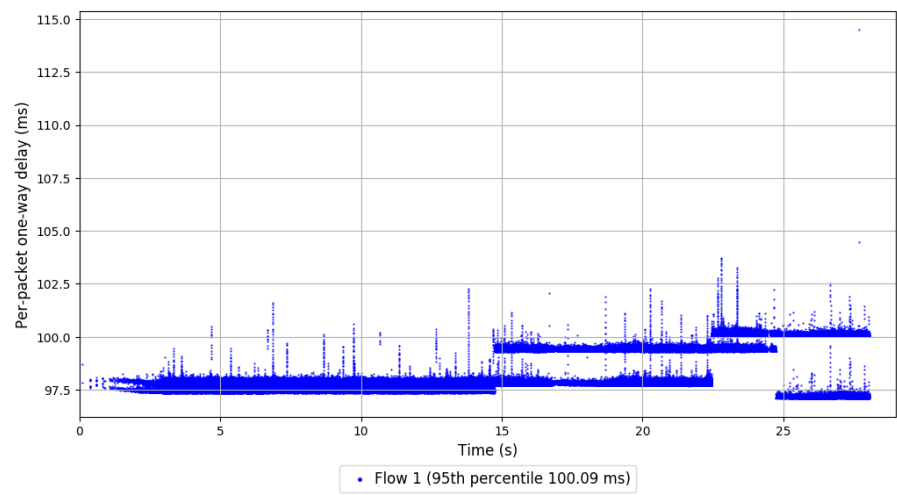
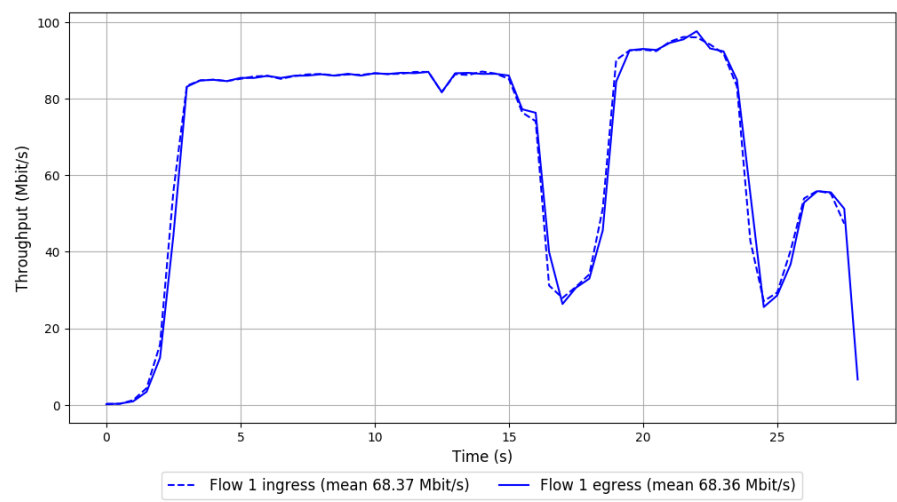
-- Flow 1:

Average throughput: 68.36 Mbit/s

95th percentile per-packet one-way delay: 100.087 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-08 22:55:45

End at: 2018-01-08 22:56:15

Below is generated by plot.py at 2018-01-09 00:25:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.82 Mbit/s

95th percentile per-packet one-way delay: 98.260 ms

Loss rate: 0.00%

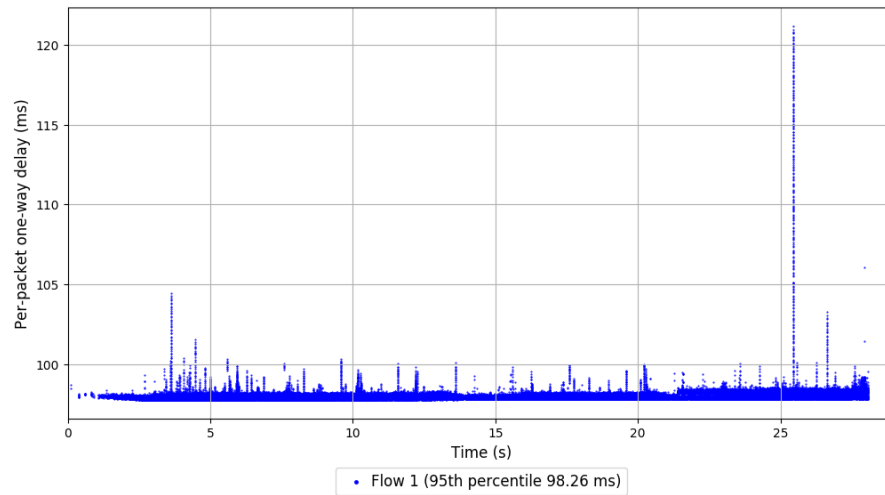
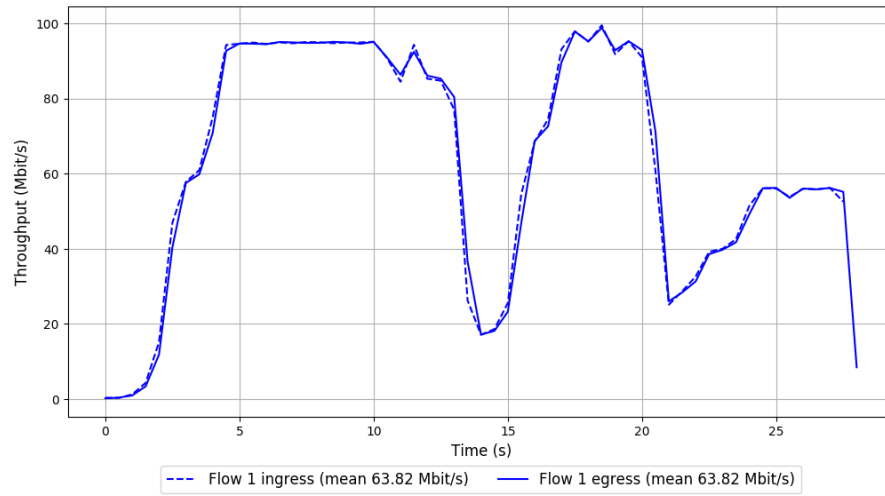
-- Flow 1:

Average throughput: 63.82 Mbit/s

95th percentile per-packet one-way delay: 98.260 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

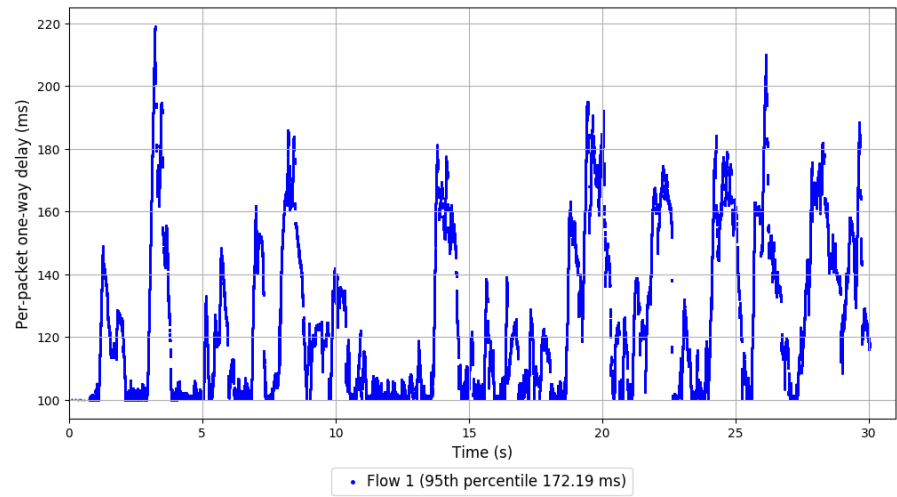
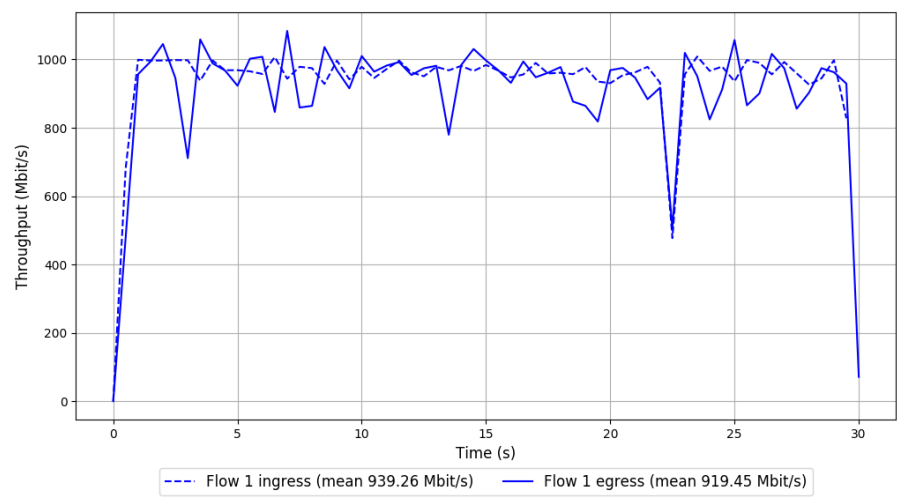


```
Run 1: Statistics of FillP

Start at: 2018-01-08 20:56:24
End at: 2018-01-08 20:56:54

# Below is generated by plot.py at 2018-01-09 00:40:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 919.45 Mbit/s
95th percentile per-packet one-way delay: 172.186 ms
Loss rate: 2.11%
-- Flow 1:
Average throughput: 919.45 Mbit/s
95th percentile per-packet one-way delay: 172.186 ms
Loss rate: 2.11%
```


Run 1: Report of FillP — Data Link

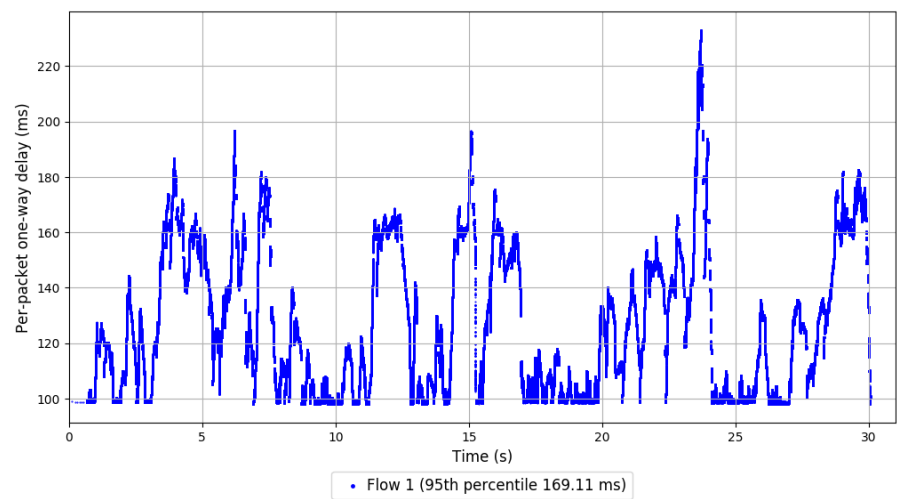
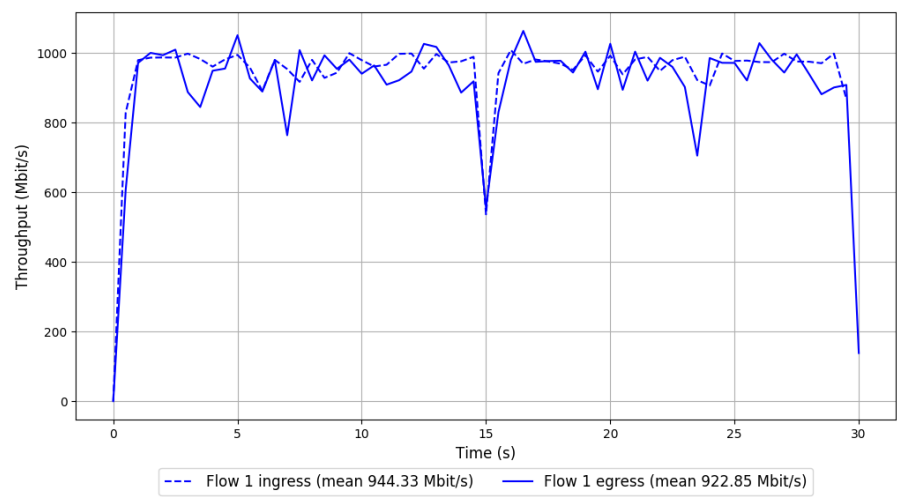


```
Run 2: Statistics of FillP

Start at: 2018-01-08 21:08:54
End at: 2018-01-08 21:09:24

# Below is generated by plot.py at 2018-01-09 00:41:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 922.85 Mbit/s
95th percentile per-packet one-way delay: 169.110 ms
Loss rate: 2.27%
-- Flow 1:
Average throughput: 922.85 Mbit/s
95th percentile per-packet one-way delay: 169.110 ms
Loss rate: 2.27%
```

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-08 21:21:36

End at: 2018-01-08 21:22:06

Below is generated by plot.py at 2018-01-09 00:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 646.69 Mbit/s

95th percentile per-packet one-way delay: 163.735 ms

Loss rate: 1.36%

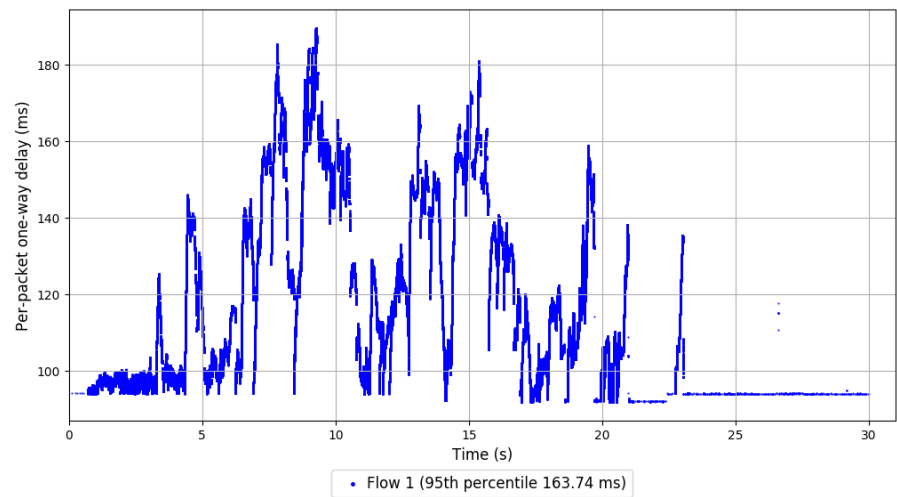
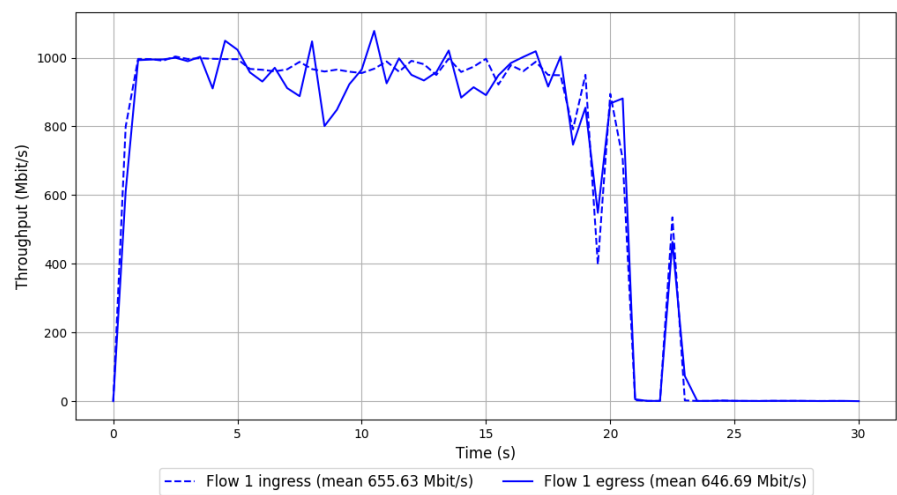
-- Flow 1:

Average throughput: 646.69 Mbit/s

95th percentile per-packet one-way delay: 163.735 ms

Loss rate: 1.36%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-01-08 21:33:46

End at: 2018-01-08 21:34:17

Below is generated by plot.py at 2018-01-09 00:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 923.45 Mbit/s

95th percentile per-packet one-way delay: 156.241 ms

Loss rate: 1.58%

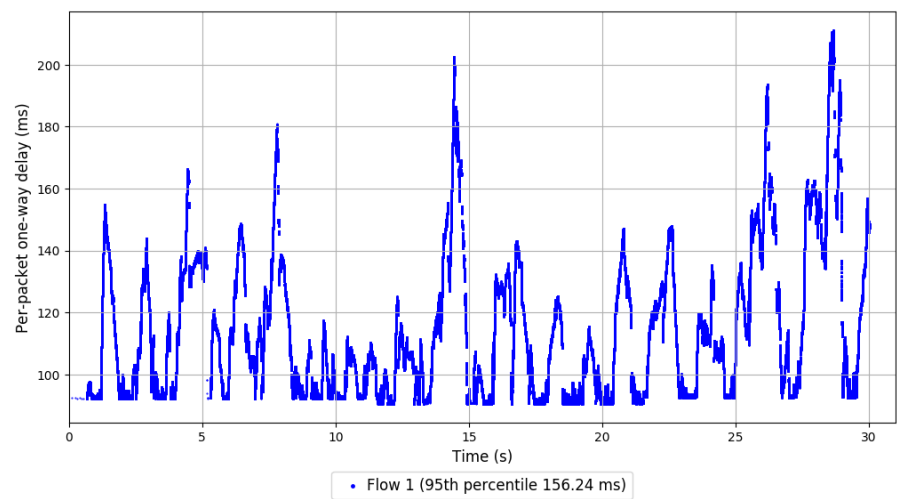
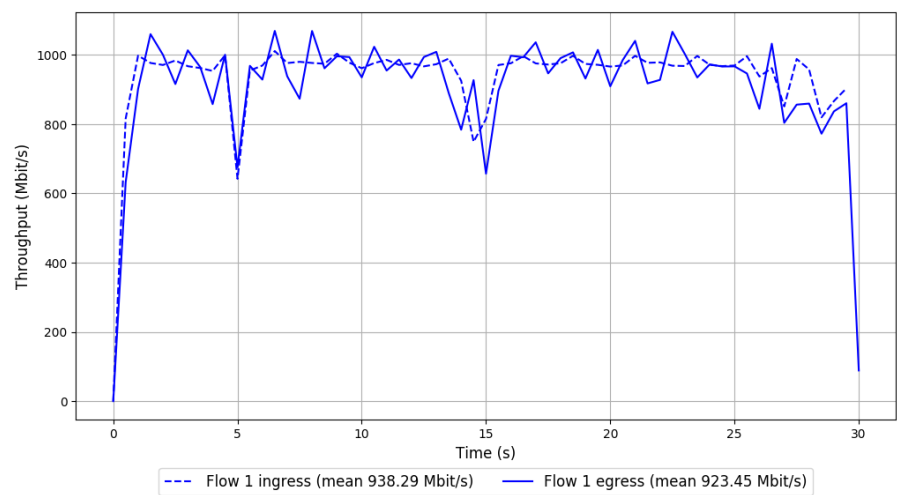
-- Flow 1:

Average throughput: 923.45 Mbit/s

95th percentile per-packet one-way delay: 156.241 ms

Loss rate: 1.58%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-08 21:46:09

End at: 2018-01-08 21:46:39

Below is generated by plot.py at 2018-01-09 00:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 834.76 Mbit/s

95th percentile per-packet one-way delay: 179.534 ms

Loss rate: 7.38%

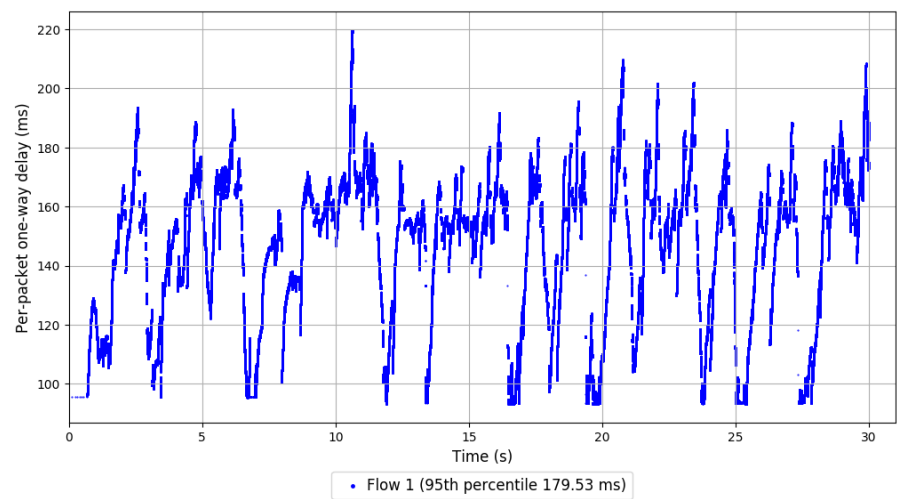
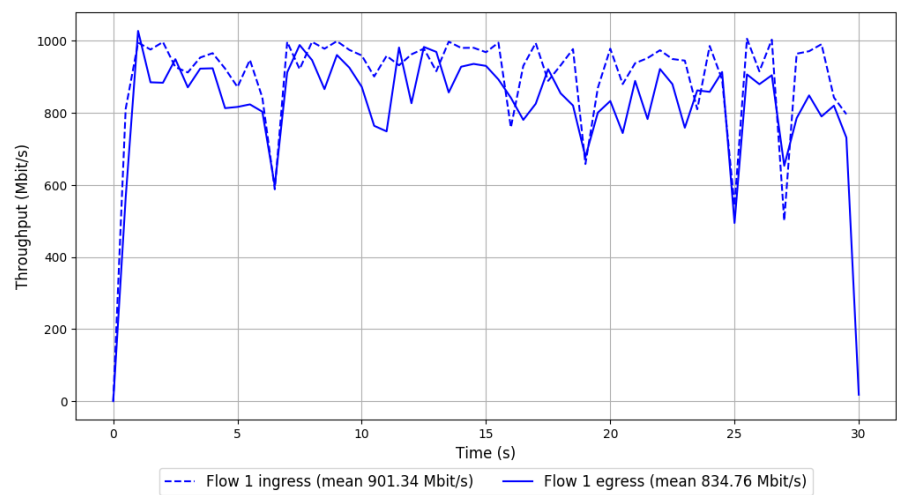
-- Flow 1:

Average throughput: 834.76 Mbit/s

95th percentile per-packet one-way delay: 179.534 ms

Loss rate: 7.38%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-08 21:58:45

End at: 2018-01-08 21:59:15

Below is generated by plot.py at 2018-01-09 00:41:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 855.89 Mbit/s

95th percentile per-packet one-way delay: 180.838 ms

Loss rate: 5.96%

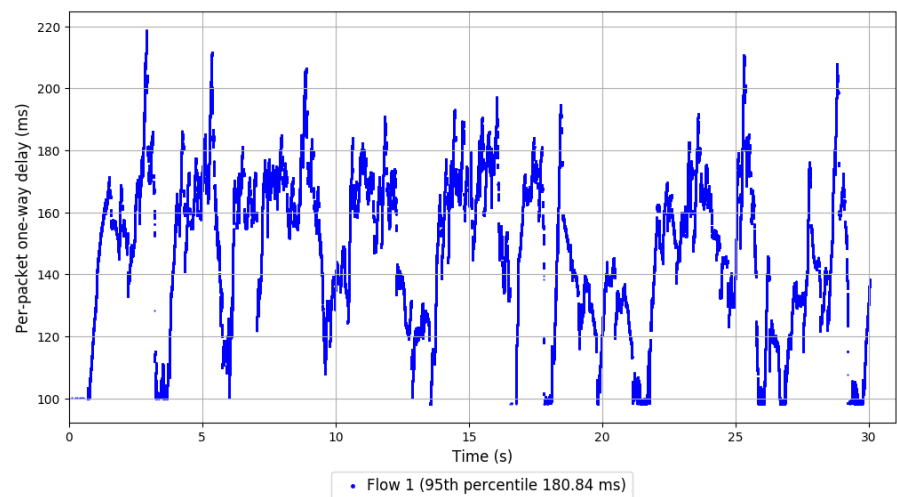
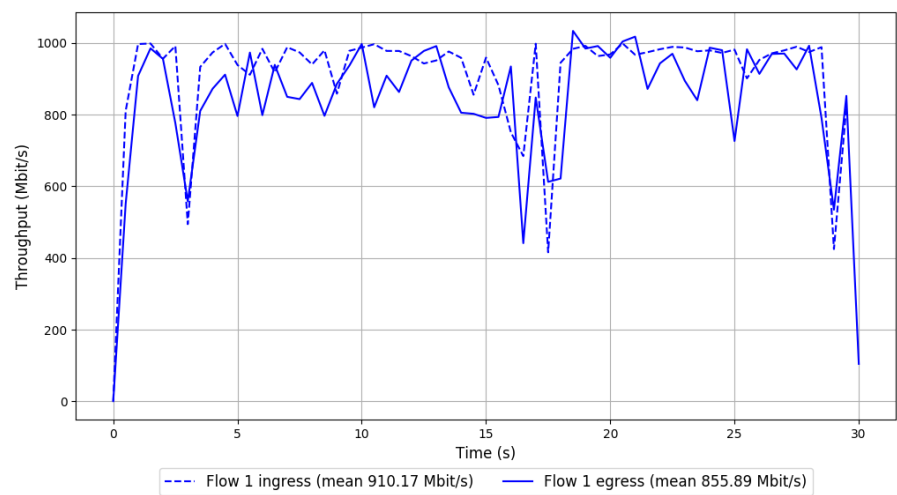
-- Flow 1:

Average throughput: 855.89 Mbit/s

95th percentile per-packet one-way delay: 180.838 ms

Loss rate: 5.96%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-01-08 22:11:18

End at: 2018-01-08 22:11:48

Below is generated by plot.py at 2018-01-09 00:43:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 946.86 Mbit/s

95th percentile per-packet one-way delay: 163.812 ms

Loss rate: 0.93%

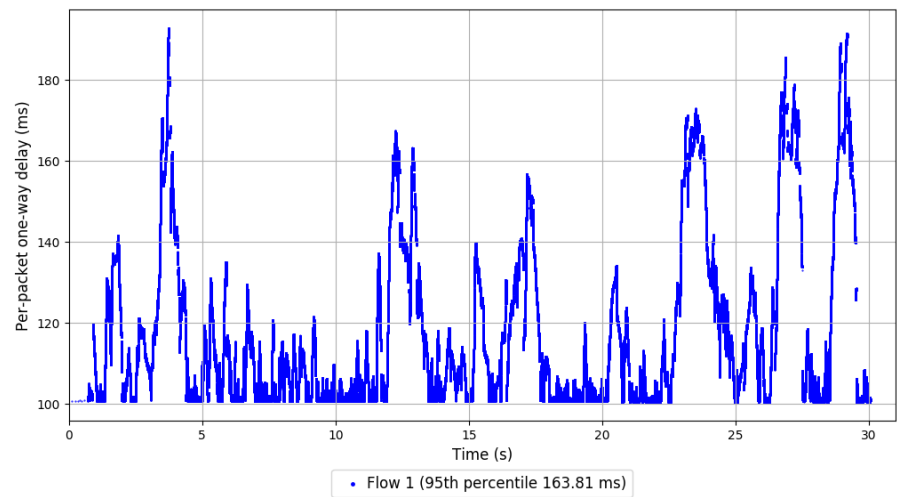
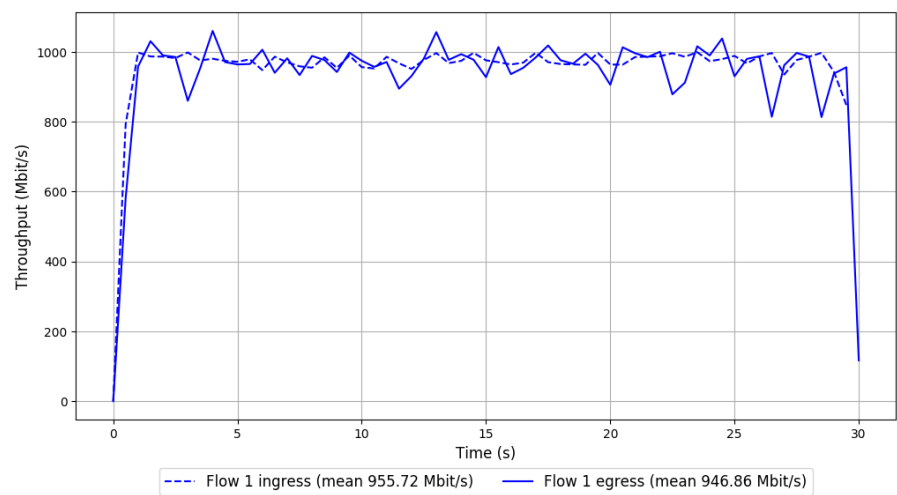
-- Flow 1:

Average throughput: 946.86 Mbit/s

95th percentile per-packet one-way delay: 163.812 ms

Loss rate: 0.93%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-01-08 22:23:41

End at: 2018-01-08 22:24:11

Below is generated by plot.py at 2018-01-09 00:43:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 884.35 Mbit/s

95th percentile per-packet one-way delay: 173.696 ms

Loss rate: 2.50%

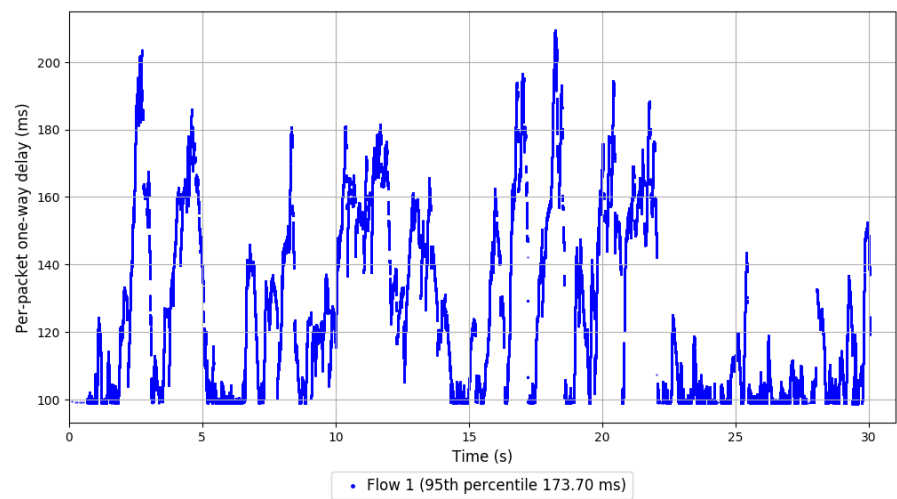
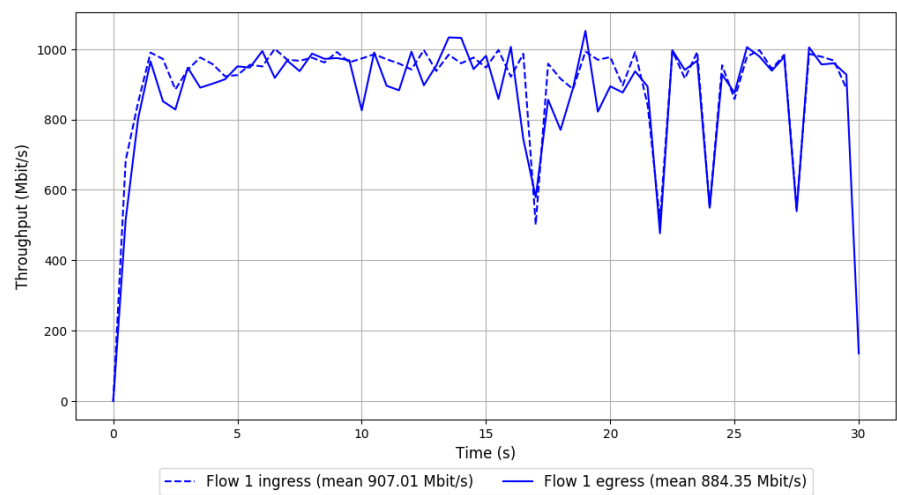
-- Flow 1:

Average throughput: 884.35 Mbit/s

95th percentile per-packet one-way delay: 173.696 ms

Loss rate: 2.50%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-01-08 22:36:01

End at: 2018-01-08 22:36:31

Below is generated by plot.py at 2018-01-09 00:47:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 931.19 Mbit/s

95th percentile per-packet one-way delay: 177.491 ms

Loss rate: 2.27%

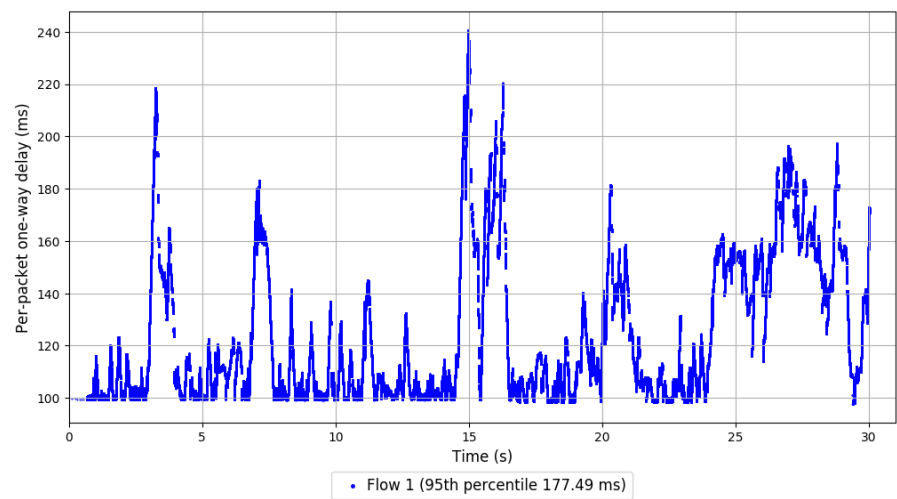
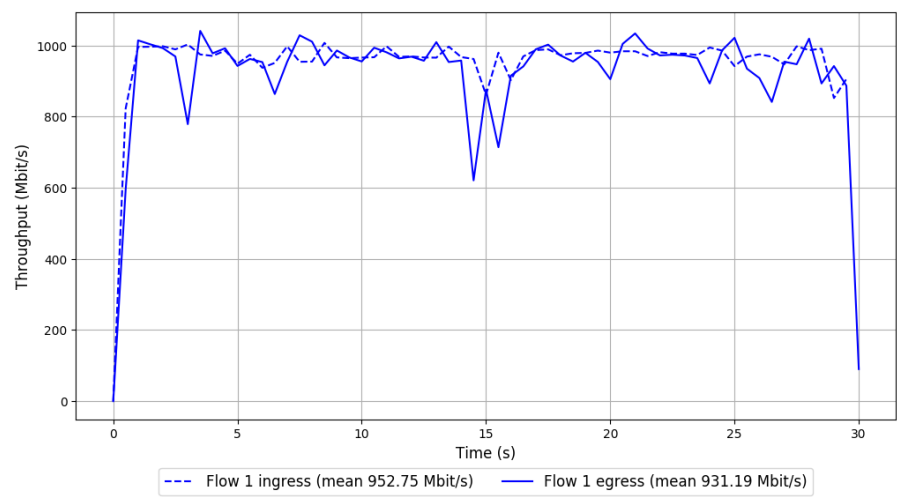
-- Flow 1:

Average throughput: 931.19 Mbit/s

95th percentile per-packet one-way delay: 177.491 ms

Loss rate: 2.27%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-01-08 22:48:30

End at: 2018-01-08 22:49:00

Below is generated by plot.py at 2018-01-09 00:47:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 943.27 Mbit/s

95th percentile per-packet one-way delay: 158.164 ms

Loss rate: 0.83%

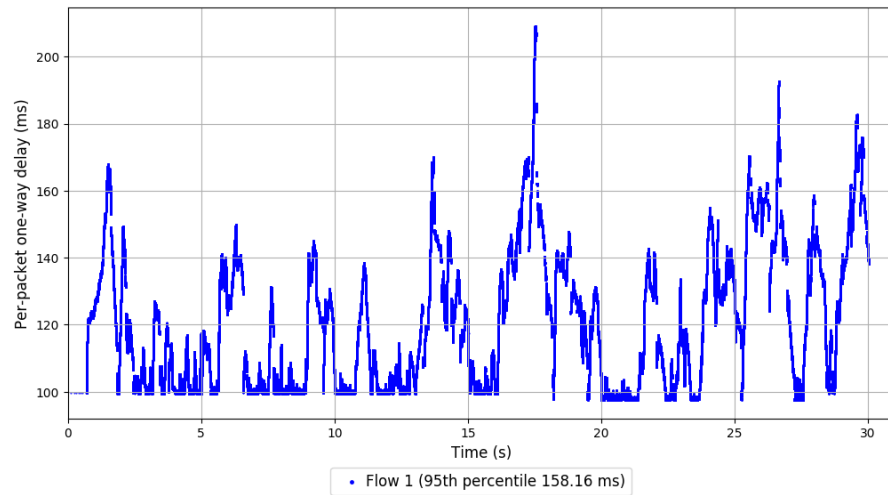
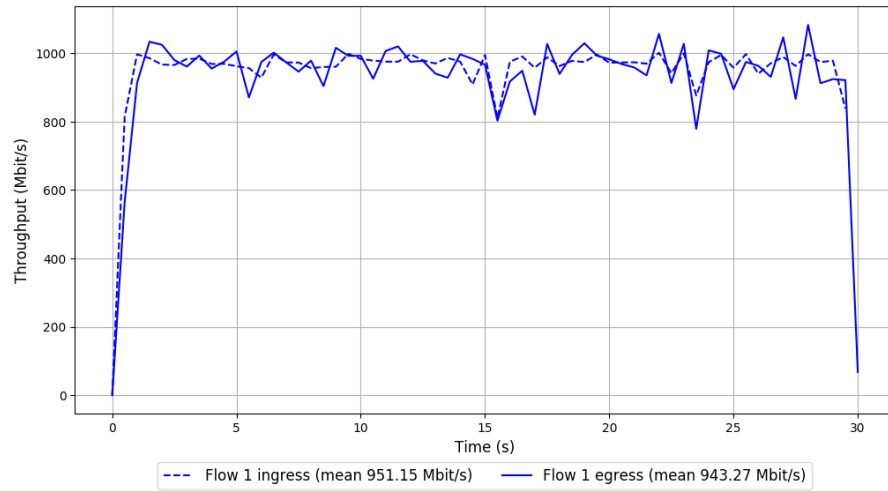
-- Flow 1:

Average throughput: 943.27 Mbit/s

95th percentile per-packet one-way delay: 158.164 ms

Loss rate: 0.83%

Run 10: Report of FillP — Data Link

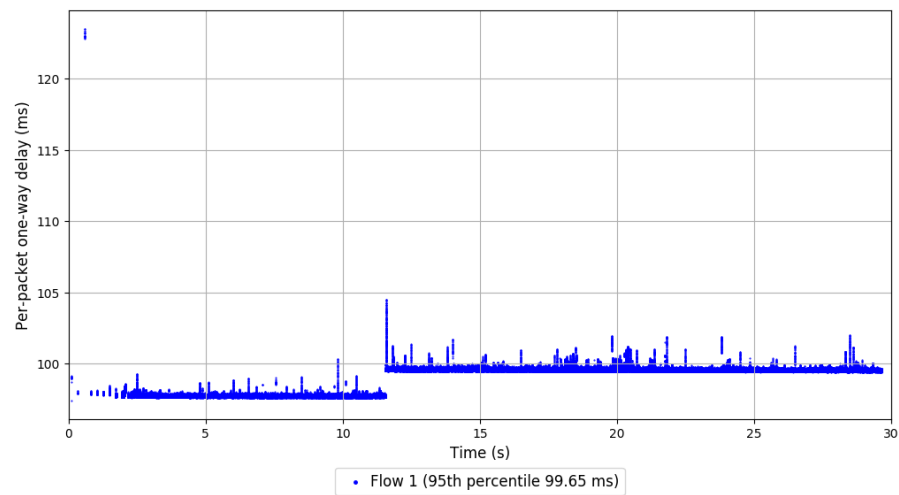
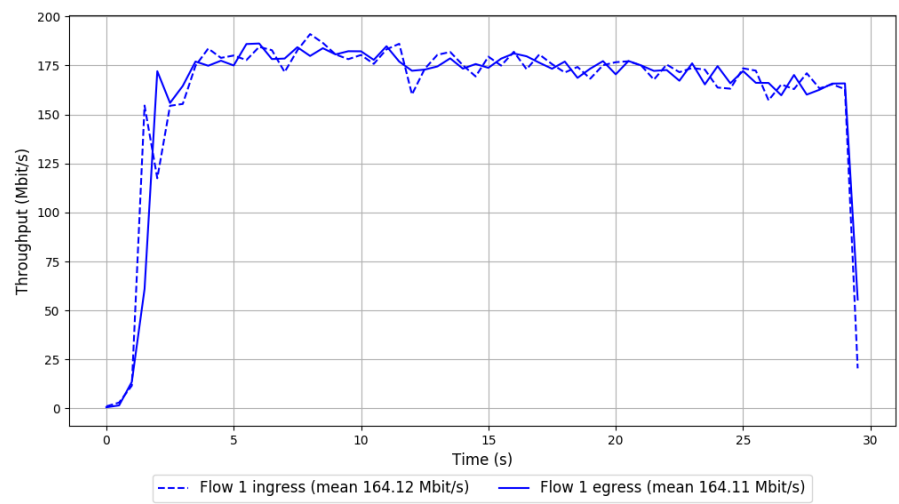


```
Run 1: Statistics of Indigo

Start at: 2018-01-08 21:02:46
End at: 2018-01-08 21:03:16

# Below is generated by plot.py at 2018-01-09 00:47:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 164.11 Mbit/s
95th percentile per-packet one-way delay: 99.647 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 164.11 Mbit/s
95th percentile per-packet one-way delay: 99.647 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-01-08 21:15:28

End at: 2018-01-08 21:15:58

Below is generated by plot.py at 2018-01-09 00:47:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.41 Mbit/s

95th percentile per-packet one-way delay: 96.108 ms

Loss rate: 0.26%

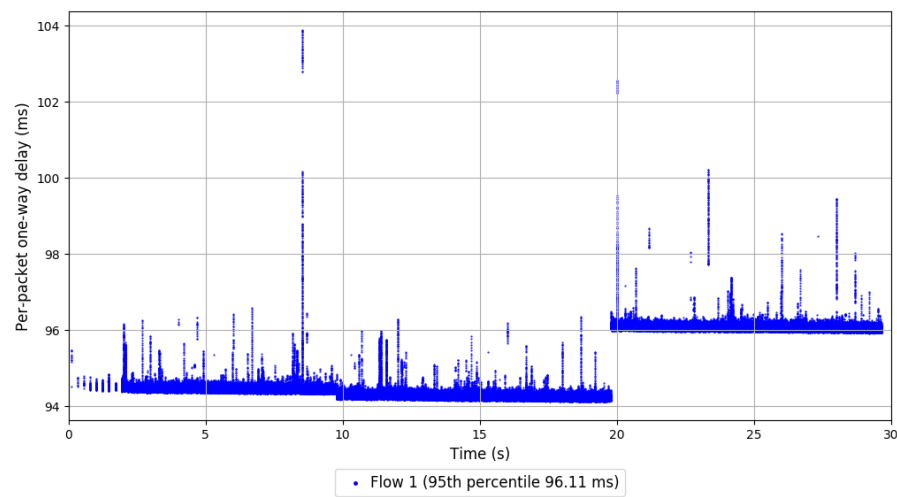
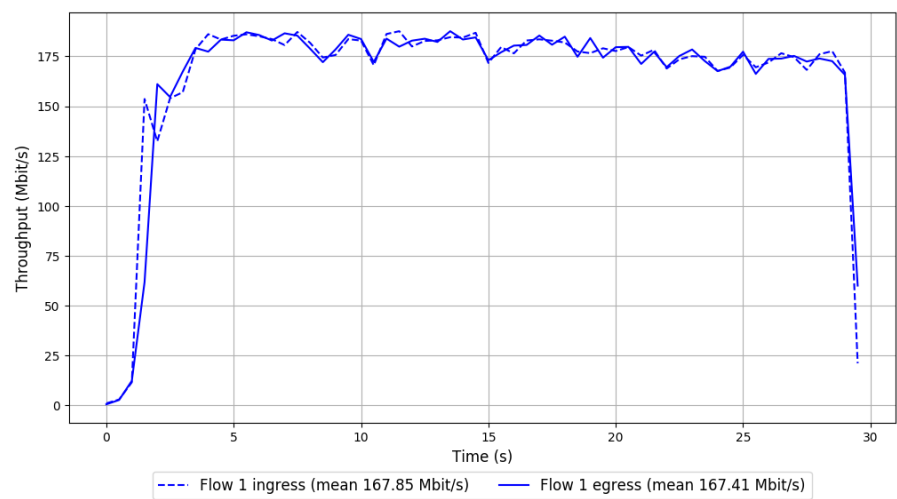
-- Flow 1:

Average throughput: 167.41 Mbit/s

95th percentile per-packet one-way delay: 96.108 ms

Loss rate: 0.26%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-01-08 21:27:38

End at: 2018-01-08 21:28:09

Below is generated by plot.py at 2018-01-09 00:47:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.72 Mbit/s

95th percentile per-packet one-way delay: 93.053 ms

Loss rate: 0.00%

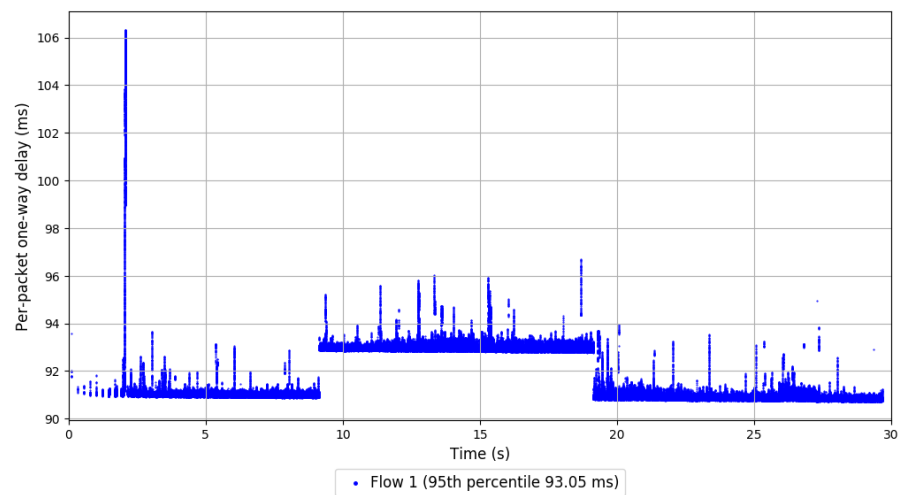
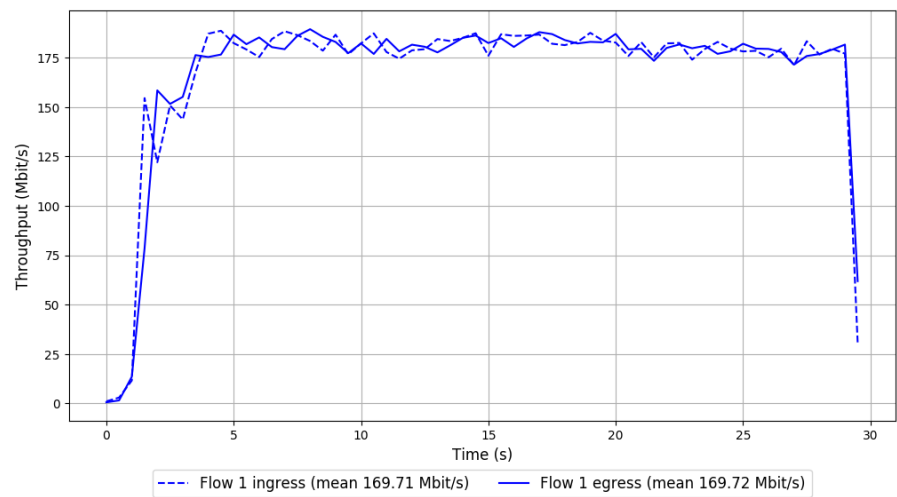
-- Flow 1:

Average throughput: 169.72 Mbit/s

95th percentile per-packet one-way delay: 93.053 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-01-08 21:39:59

End at: 2018-01-08 21:40:29

Below is generated by plot.py at 2018-01-09 00:47:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 166.16 Mbit/s

95th percentile per-packet one-way delay: 94.881 ms

Loss rate: 0.00%

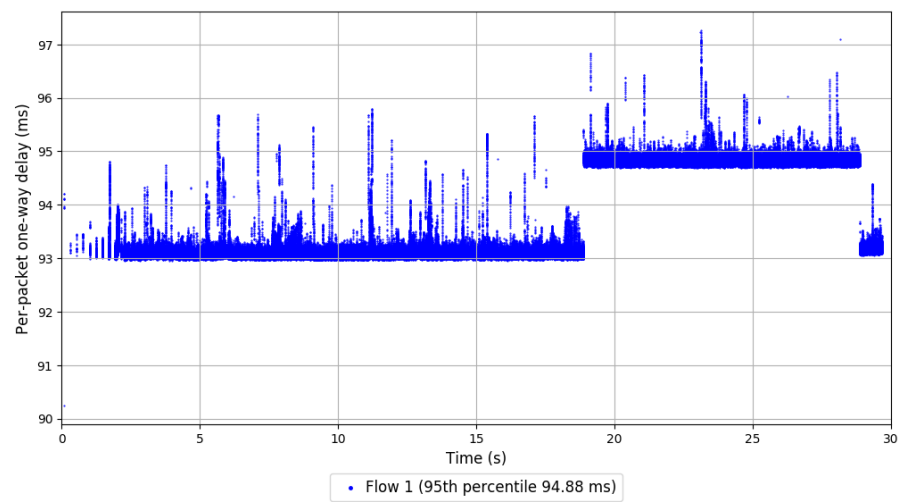
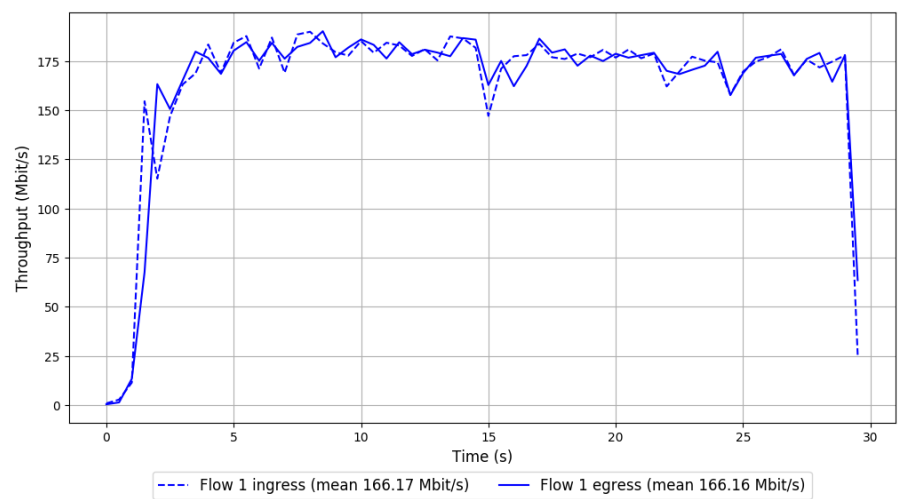
-- Flow 1:

Average throughput: 166.16 Mbit/s

95th percentile per-packet one-way delay: 94.881 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-01-08 21:52:38

End at: 2018-01-08 21:53:08

Below is generated by plot.py at 2018-01-09 00:47:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.22 Mbit/s

95th percentile per-packet one-way delay: 98.928 ms

Loss rate: 0.00%

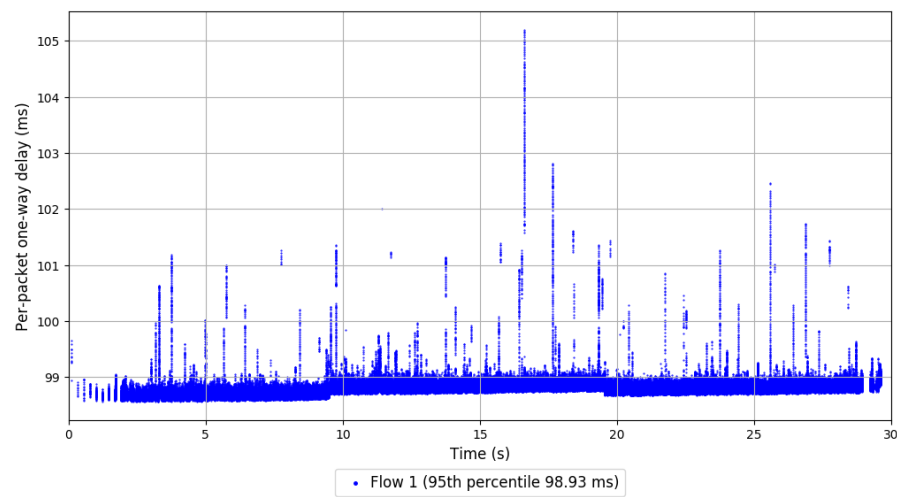
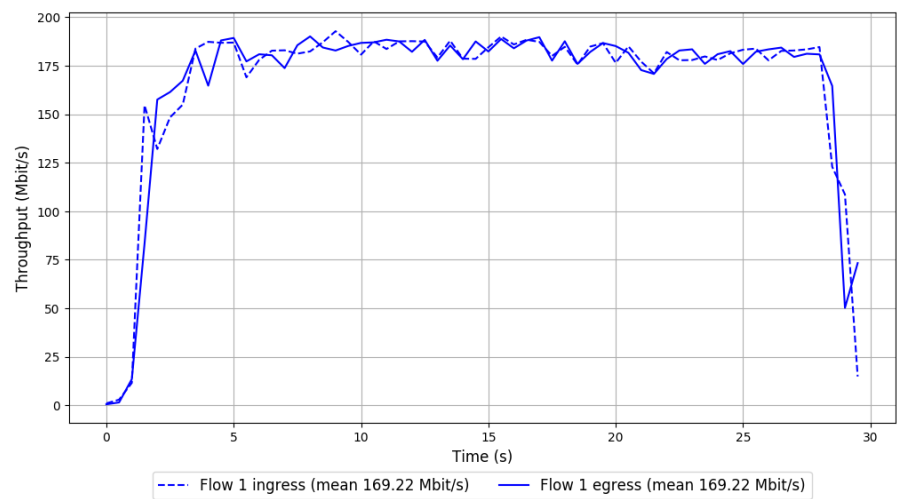
-- Flow 1:

Average throughput: 169.22 Mbit/s

95th percentile per-packet one-way delay: 98.928 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-01-08 22:05:11

End at: 2018-01-08 22:05:41

Below is generated by plot.py at 2018-01-09 00:47:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.35 Mbit/s

95th percentile per-packet one-way delay: 102.830 ms

Loss rate: 0.00%

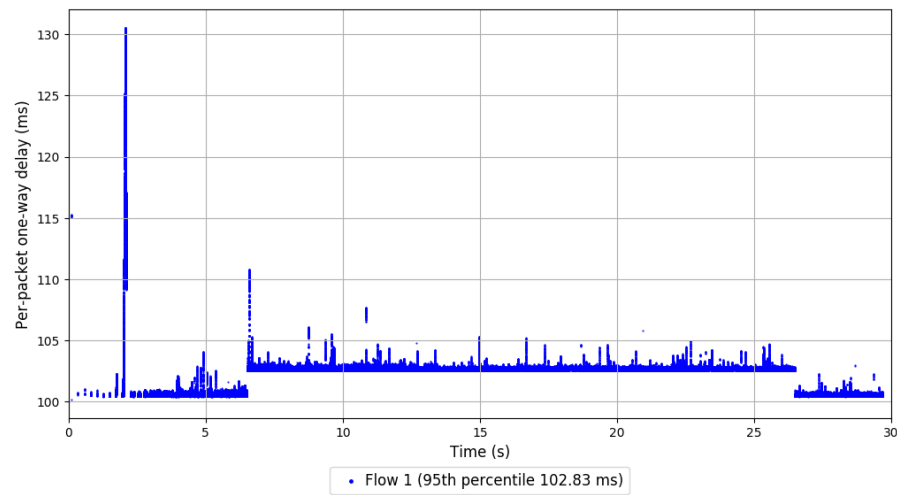
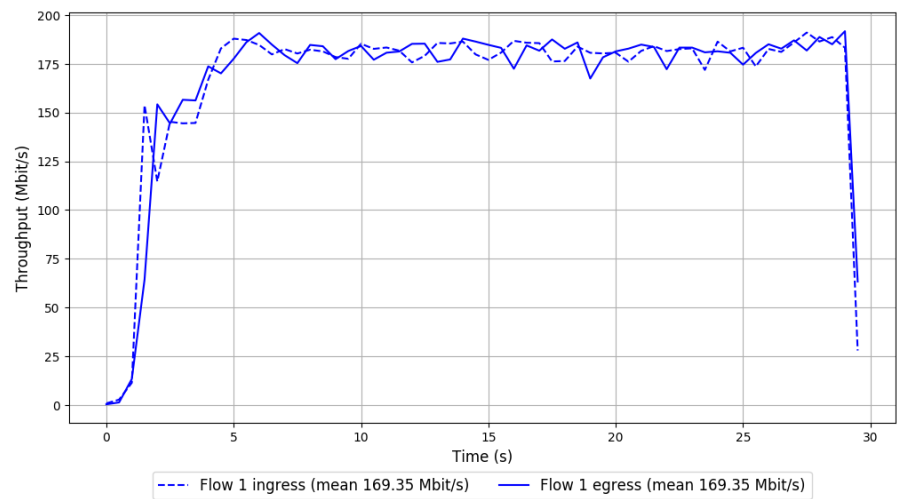
-- Flow 1:

Average throughput: 169.35 Mbit/s

95th percentile per-packet one-way delay: 102.830 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-01-08 22:17:37

End at: 2018-01-08 22:18:07

Below is generated by plot.py at 2018-01-09 00:47:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.23 Mbit/s

95th percentile per-packet one-way delay: 101.785 ms

Loss rate: 0.08%

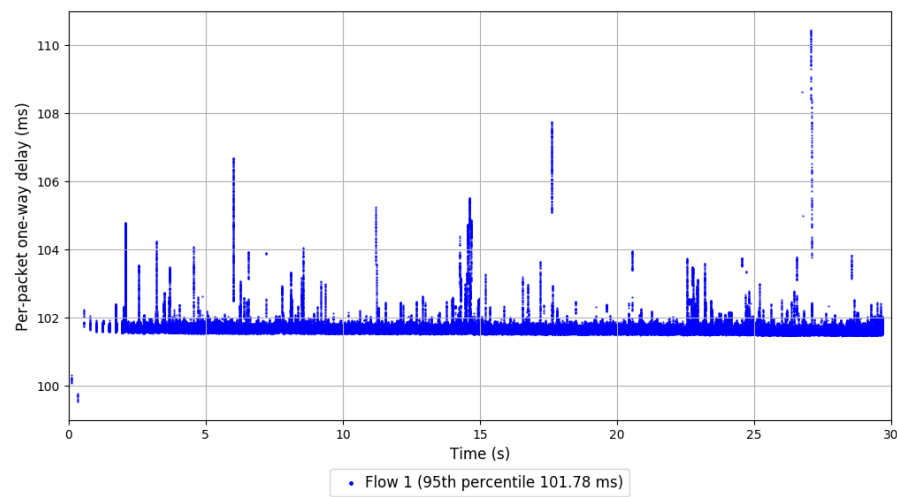
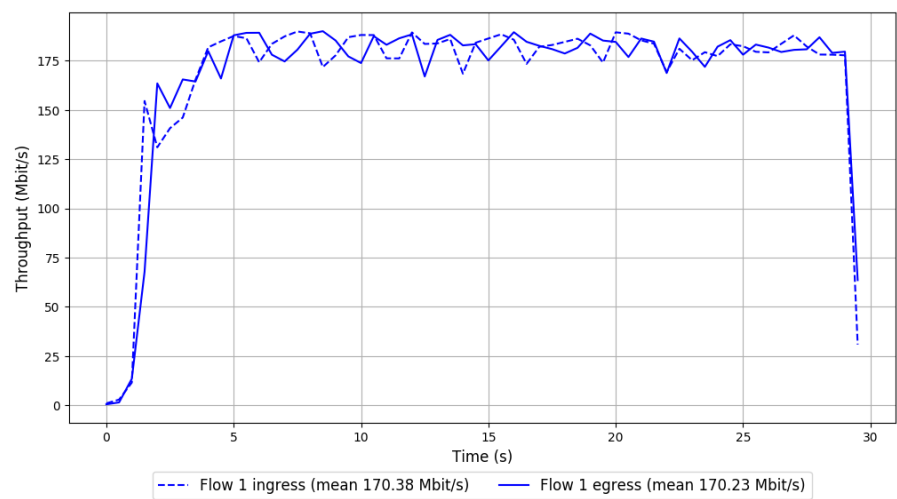
-- Flow 1:

Average throughput: 170.23 Mbit/s

95th percentile per-packet one-way delay: 101.785 ms

Loss rate: 0.08%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-01-08 22:29:55

End at: 2018-01-08 22:30:25

Below is generated by plot.py at 2018-01-09 00:47:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.09 Mbit/s

95th percentile per-packet one-way delay: 99.482 ms

Loss rate: 0.00%

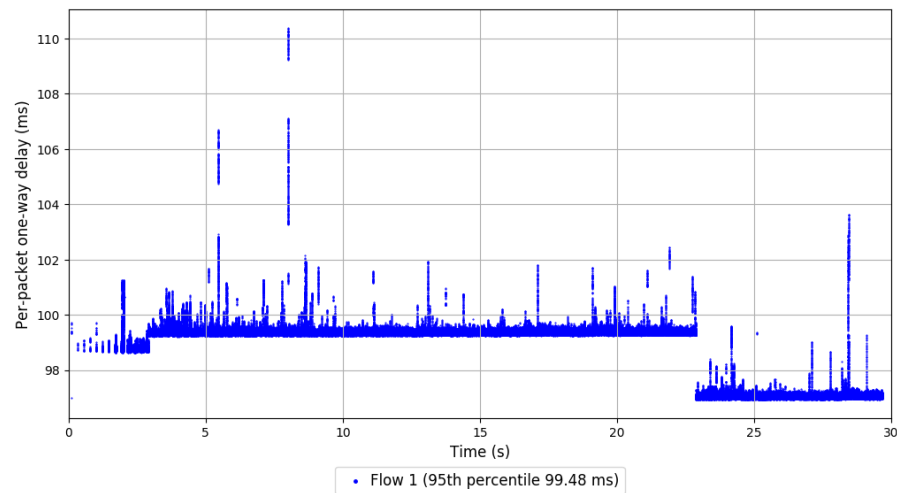
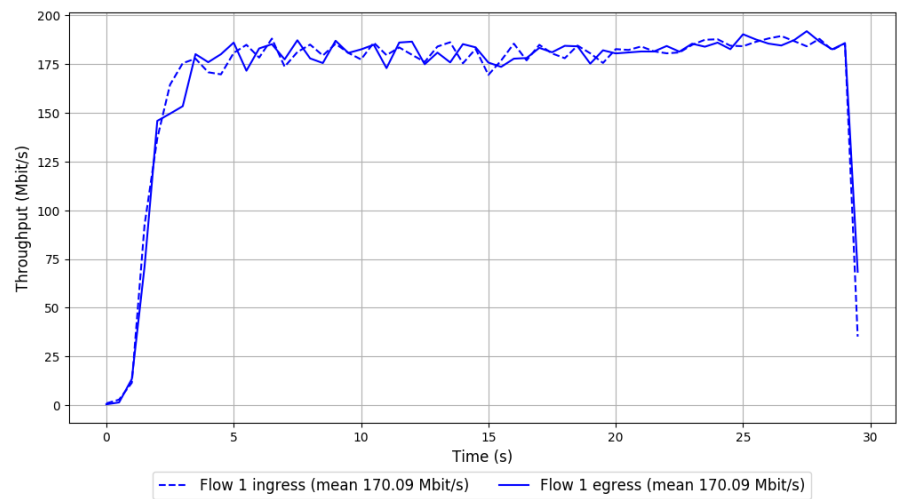
-- Flow 1:

Average throughput: 170.09 Mbit/s

95th percentile per-packet one-way delay: 99.482 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-01-08 22:42:20

End at: 2018-01-08 22:42:50

Below is generated by plot.py at 2018-01-09 00:47:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.40 Mbit/s

95th percentile per-packet one-way delay: 100.355 ms

Loss rate: 0.00%

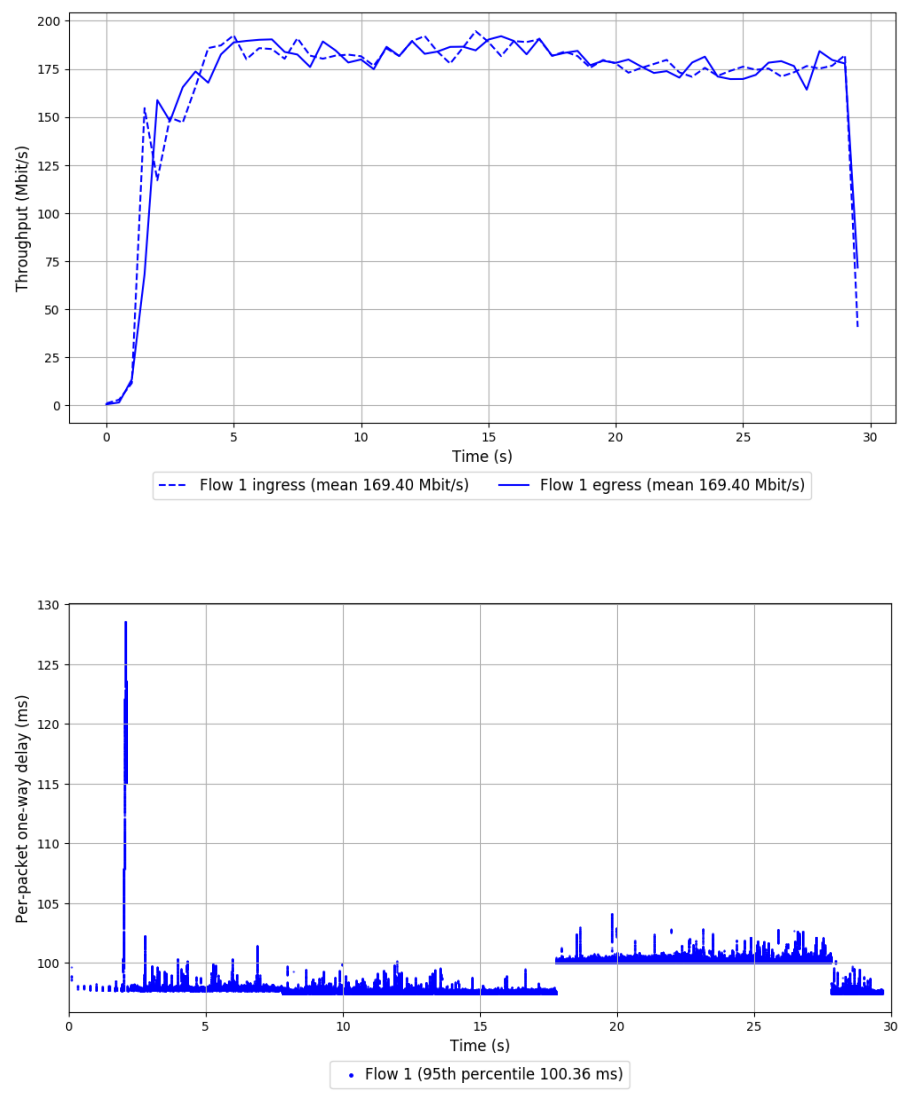
-- Flow 1:

Average throughput: 169.40 Mbit/s

95th percentile per-packet one-way delay: 100.355 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-08 22:54:50

End at: 2018-01-08 22:55:20

Below is generated by plot.py at 2018-01-09 00:47:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 166.39 Mbit/s

95th percentile per-packet one-way delay: 100.455 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 166.39 Mbit/s

95th percentile per-packet one-way delay: 100.455 ms

Loss rate: 0.02%

Run 10: Report of Indigo — Data Link

