

Pantheon Report

Generated at 2018-01-16 04:25:46 (UTC).

Data path: GCE Iowa Ethernet (*local*) → GCE Sydney Ethernet (*remote*).

Repeated the test of 14 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

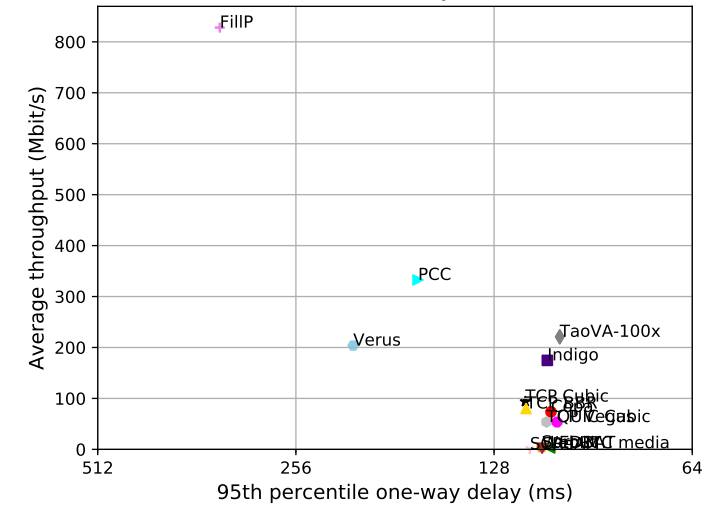
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

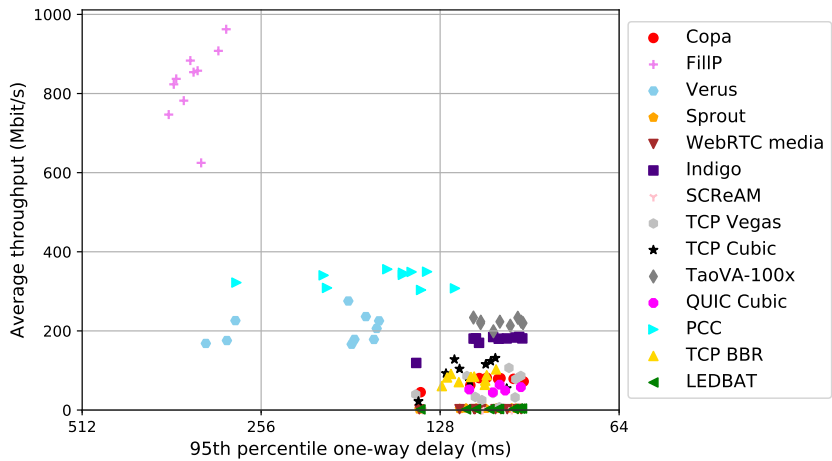
Git summary:

```
branch: master @ af8abdfba95588b0c5f2aeca9e856a1656b0c598
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/llp @ 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-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 423cbca3e8ea1d599e7b5cf725835e8a2b6bfac6
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

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



test from GCE Iowa Ethernet to GCE Sydney Ethernet, 10 runs of 30s each per scheme



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	80.20	114.44	0.09
TCP Cubic	9	93.75	114.77	0.13
LEDBAT	10	2.73	105.36	0.03
PCC	10	332.56	166.99	0.31
QUIC Cubic	5	53.58	102.70	0.00
SCReAM	4	0.22	112.93	0.00
WebRTC media	10	2.17	108.21	0.02
Sprout	10	3.64	108.40	0.15
TaoVA-100x	9	220.93	101.73	0.01
TCP Vegas	10	53.67	106.57	0.04
Verus	10	203.68	209.53	2.29
Copa	10	73.57	104.90	0.01
FillP	10	827.92	334.11	7.31
Indigo	10	174.64	106.25	0.06

Run 1: Statistics of TCP BBR

Start at: 2018-01-16 00:48:02

End at: 2018-01-16 00:48:32

Below is generated by plot.py at 2018-01-16 03:38:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.22 Mbit/s

95th percentile per-packet one-way delay: 122.743 ms

Loss rate: 0.02%

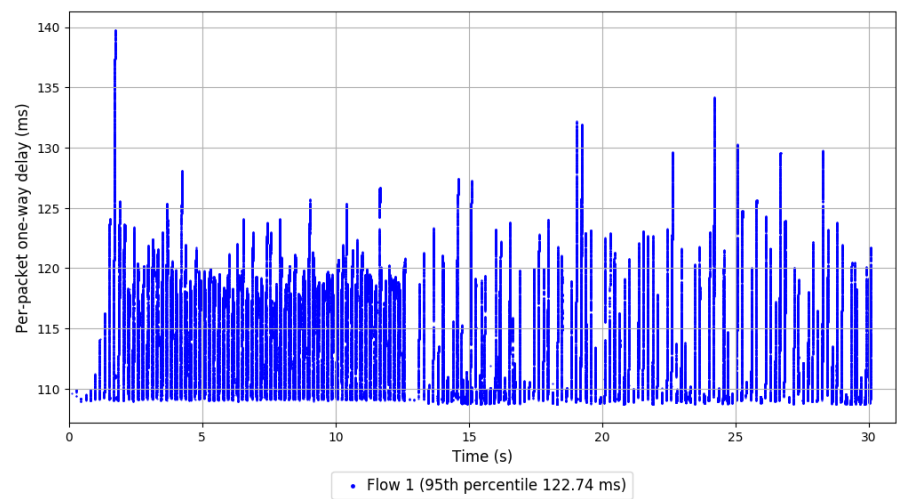
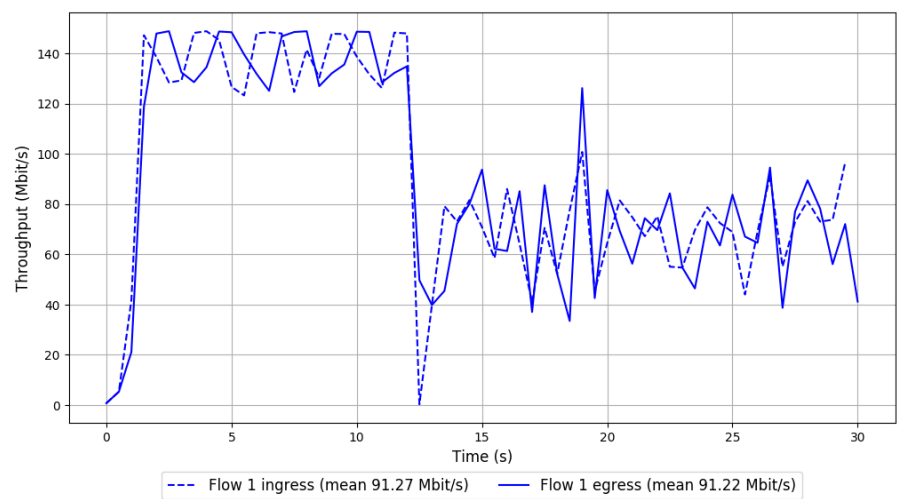
-- Flow 1:

Average throughput: 91.22 Mbit/s

95th percentile per-packet one-way delay: 122.743 ms

Loss rate: 0.02%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-16 01:00:10

End at: 2018-01-16 01:00:40

Below is generated by plot.py at 2018-01-16 03:38:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.39 Mbit/s

95th percentile per-packet one-way delay: 124.598 ms

Loss rate: 0.25%

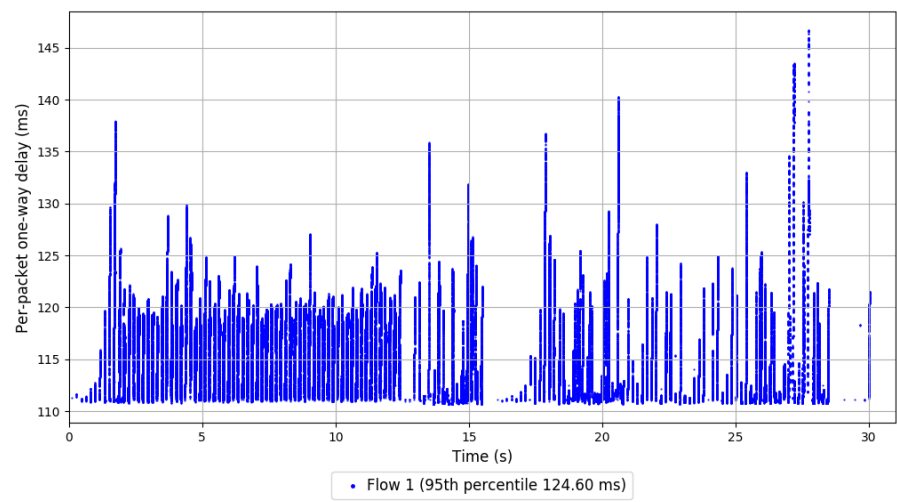
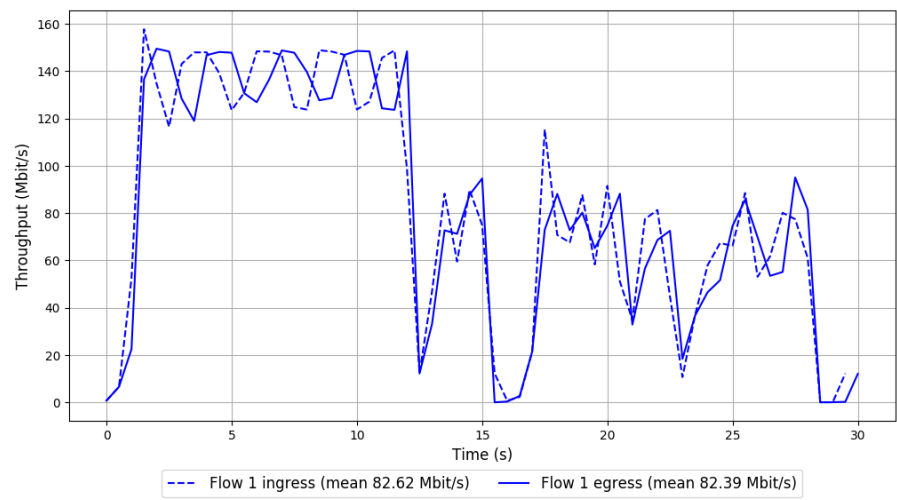
-- Flow 1:

Average throughput: 82.39 Mbit/s

95th percentile per-packet one-way delay: 124.598 ms

Loss rate: 0.25%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-16 01:12:20

End at: 2018-01-16 01:12:50

Below is generated by plot.py at 2018-01-16 03:38:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.53 Mbit/s

95th percentile per-packet one-way delay: 127.155 ms

Loss rate: 0.30%

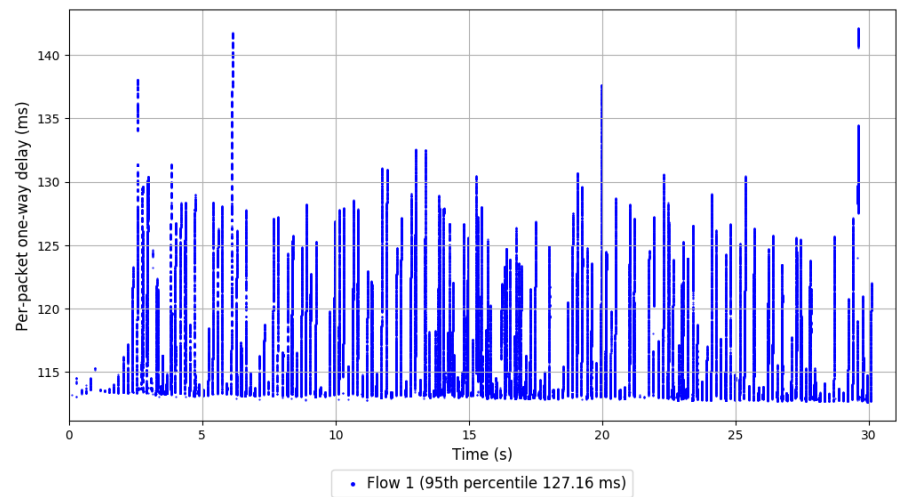
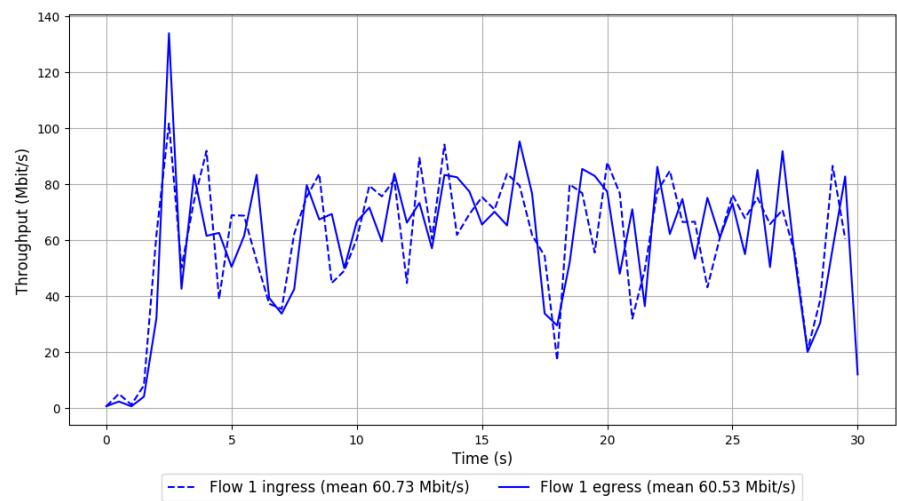
-- Flow 1:

Average throughput: 60.53 Mbit/s

95th percentile per-packet one-way delay: 127.155 ms

Loss rate: 0.30%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-16 01:24:18

End at: 2018-01-16 01:24:48

Below is generated by plot.py at 2018-01-16 03:38:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.51 Mbit/s

95th percentile per-packet one-way delay: 119.057 ms

Loss rate: 0.33%

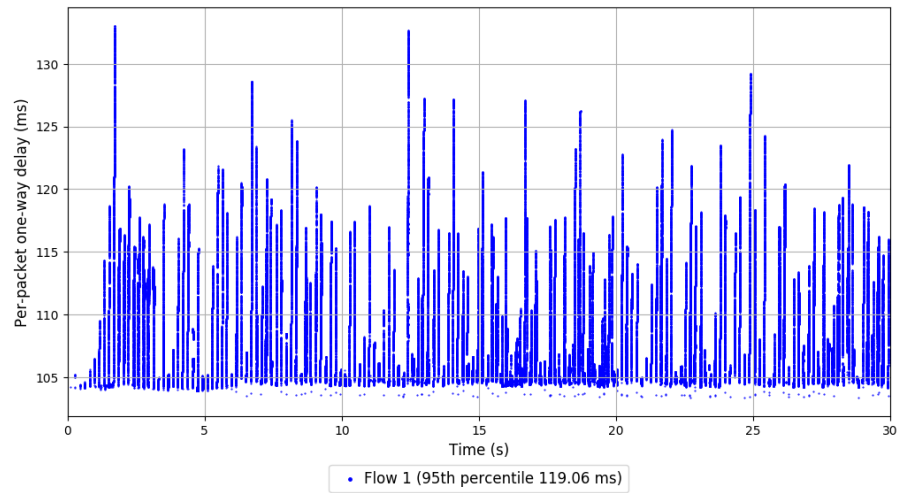
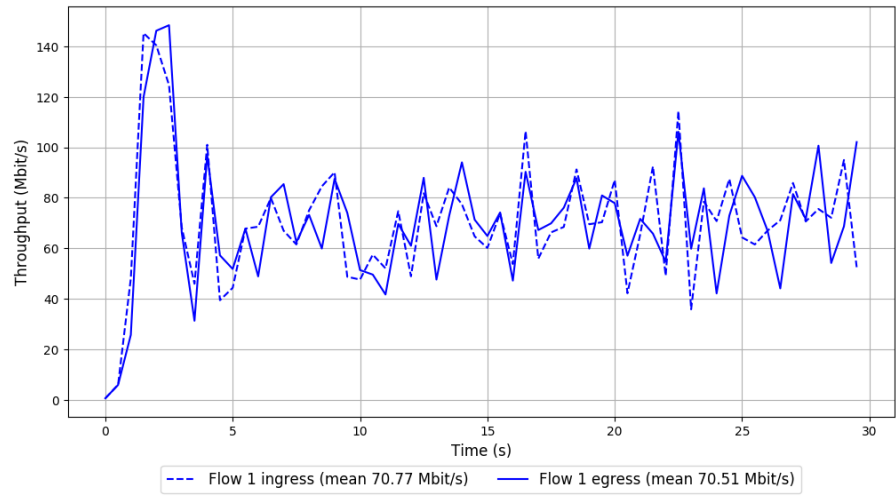
-- Flow 1:

Average throughput: 70.51 Mbit/s

95th percentile per-packet one-way delay: 119.057 ms

Loss rate: 0.33%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-16 01:36:12

End at: 2018-01-16 01:36:42

Below is generated by plot.py at 2018-01-16 03:38:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.54 Mbit/s

95th percentile per-packet one-way delay: 113.578 ms

Loss rate: 0.00%

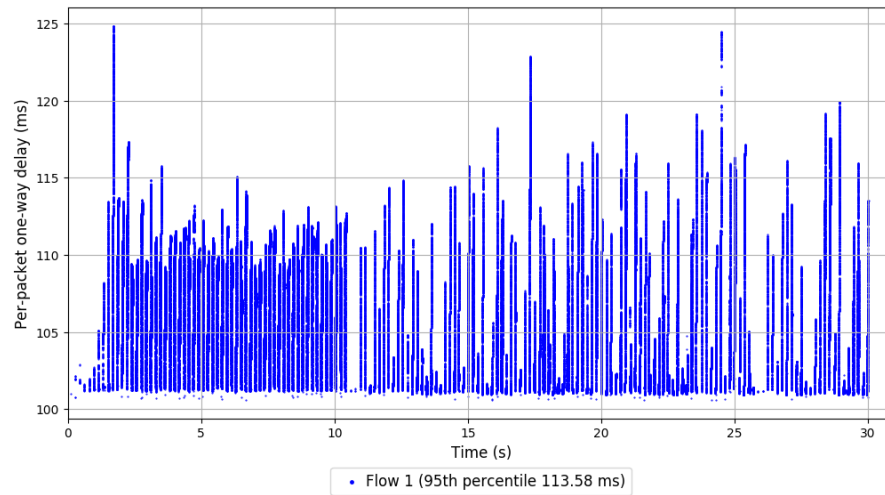
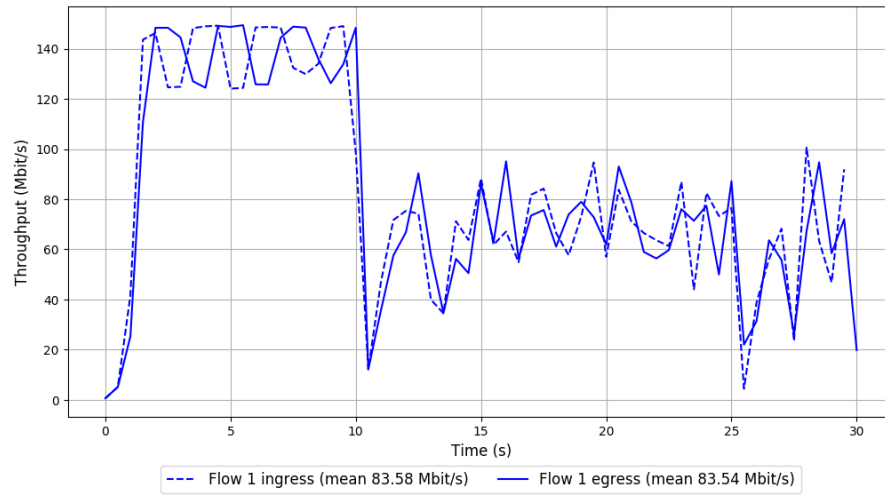
-- Flow 1:

Average throughput: 83.54 Mbit/s

95th percentile per-packet one-way delay: 113.578 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-16 01:48:24

End at: 2018-01-16 01:48:54

Below is generated by plot.py at 2018-01-16 03:38:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.69 Mbit/s

95th percentile per-packet one-way delay: 112.203 ms

Loss rate: 0.00%

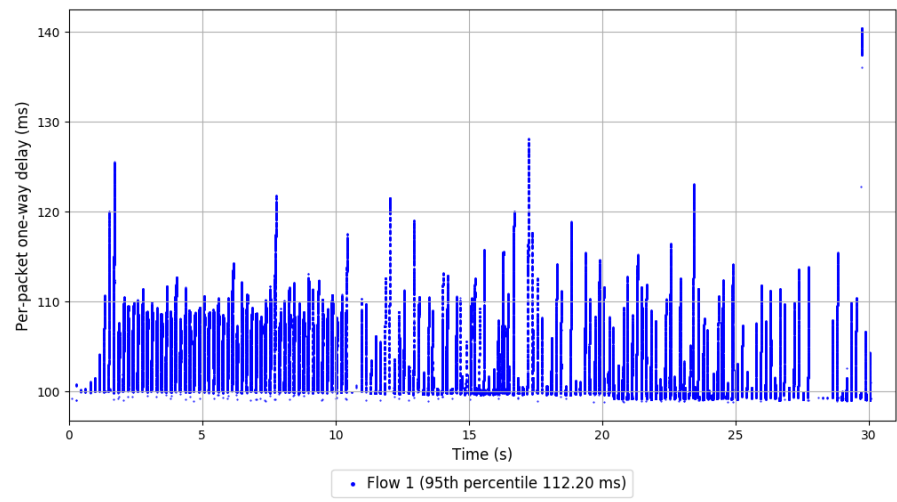
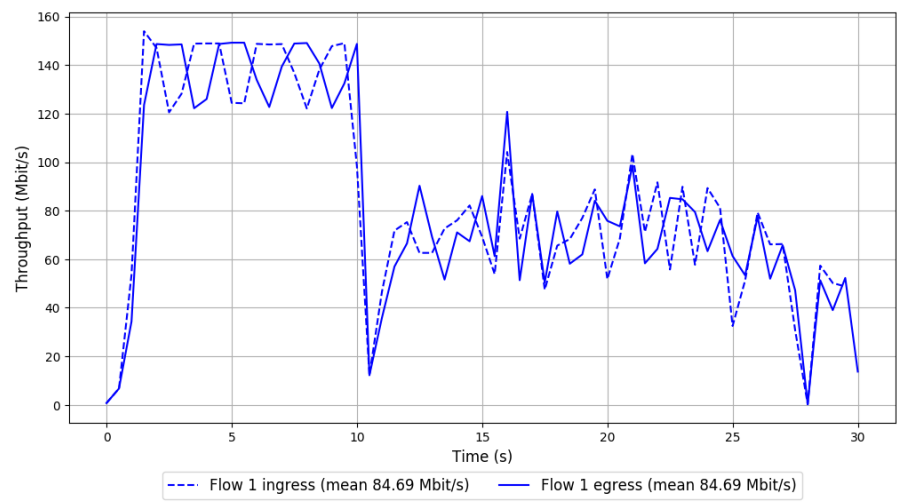
-- Flow 1:

Average throughput: 84.69 Mbit/s

95th percentile per-packet one-way delay: 112.203 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-16 02:00:24

End at: 2018-01-16 02:00:54

Below is generated by plot.py at 2018-01-16 03:38:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.17 Mbit/s

95th percentile per-packet one-way delay: 106.882 ms

Loss rate: 0.00%

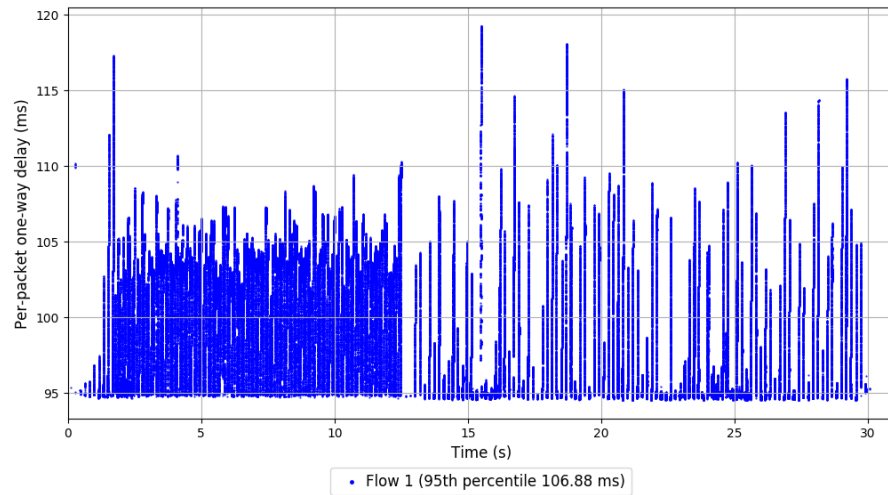
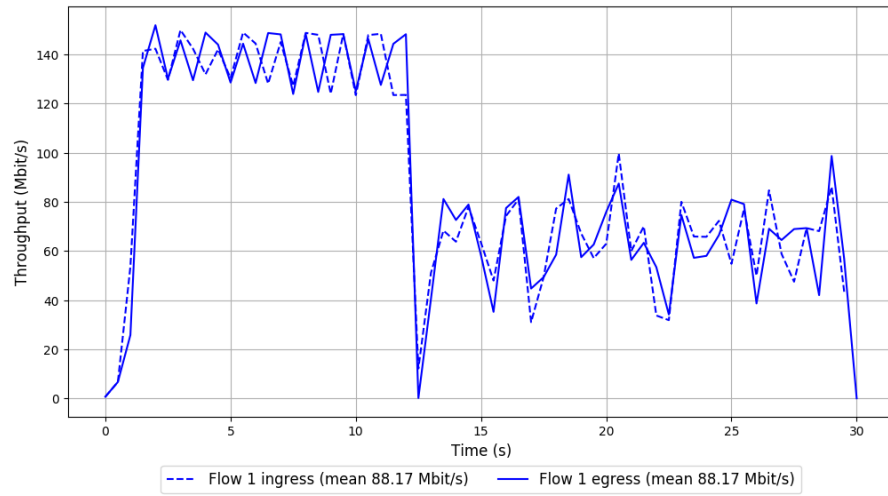
-- Flow 1:

Average throughput: 88.17 Mbit/s

95th percentile per-packet one-way delay: 106.882 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-16 02:12:17

End at: 2018-01-16 02:12:47

Below is generated by plot.py at 2018-01-16 03:38:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.48 Mbit/s

95th percentile per-packet one-way delay: 107.489 ms

Loss rate: 0.00%

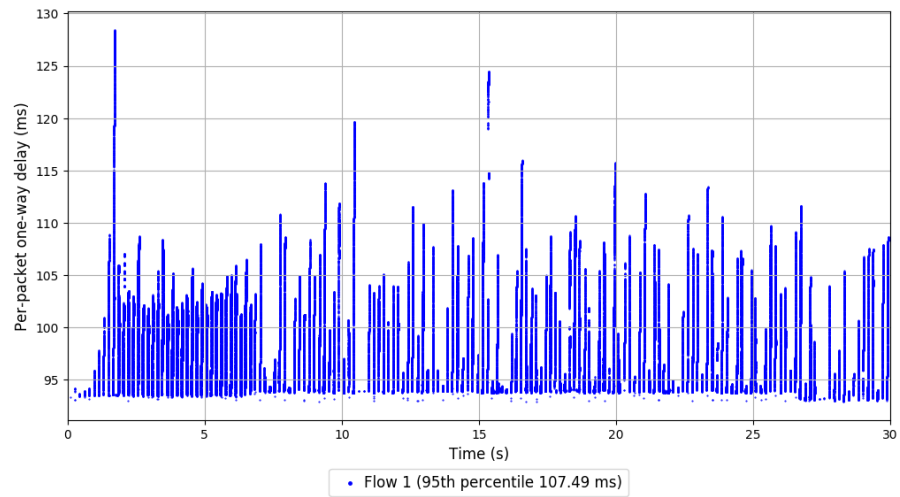
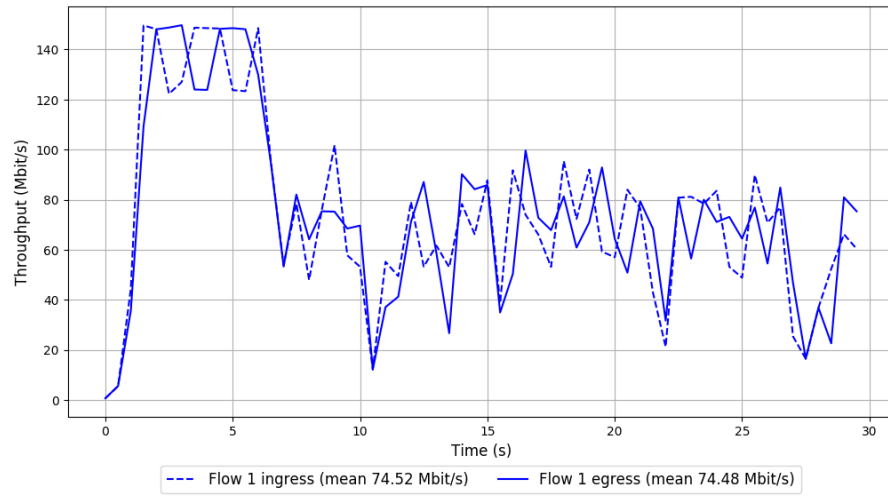
-- Flow 1:

Average throughput: 74.48 Mbit/s

95th percentile per-packet one-way delay: 107.489 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-16 02:24:28

End at: 2018-01-16 02:24:58

Below is generated by plot.py at 2018-01-16 03:39:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.77 Mbit/s

95th percentile per-packet one-way delay: 107.651 ms

Loss rate: 0.00%

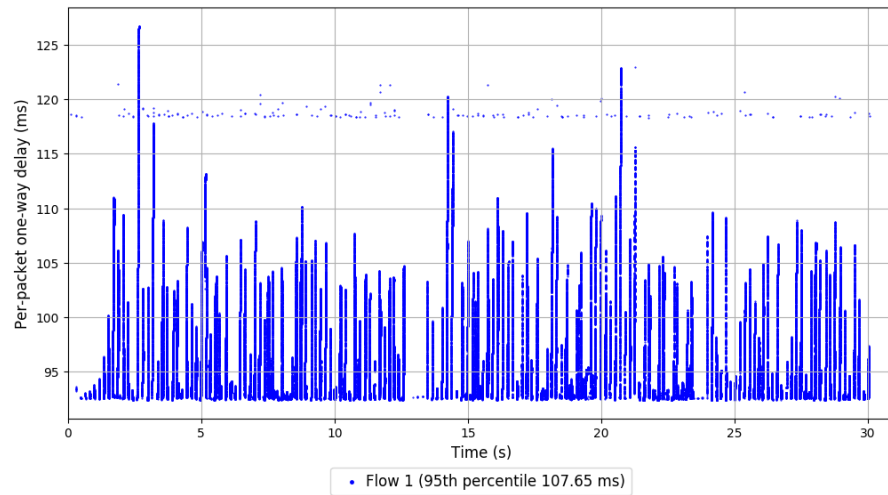
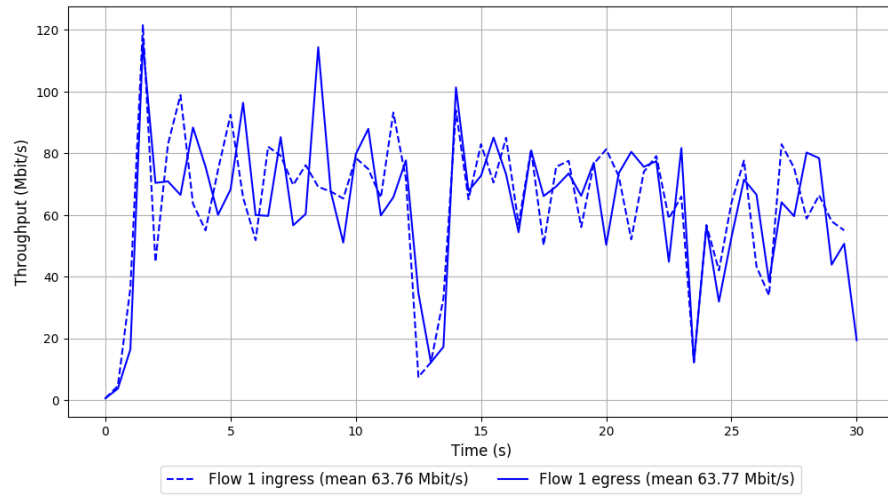
-- Flow 1:

Average throughput: 63.77 Mbit/s

95th percentile per-packet one-way delay: 107.651 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-16 02:36:39

End at: 2018-01-16 02:37:09

Below is generated by plot.py at 2018-01-16 03:40:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.72 Mbit/s

95th percentile per-packet one-way delay: 103.061 ms

Loss rate: 0.00%

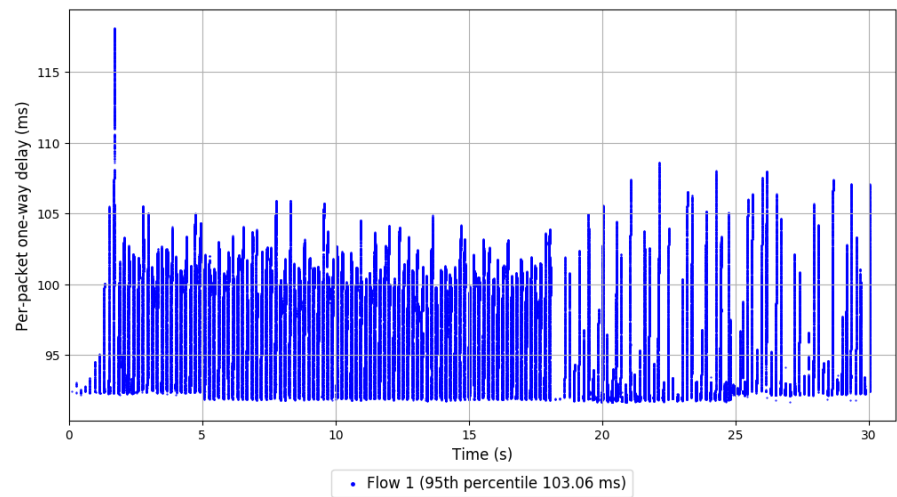
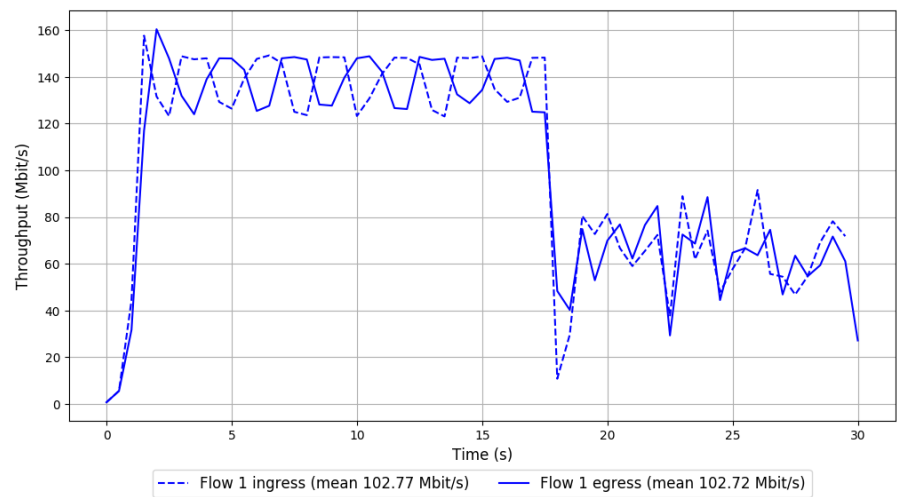
-- Flow 1:

Average throughput: 102.72 Mbit/s

95th percentile per-packet one-way delay: 103.061 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-16 00:44:03

End at: 2018-01-16 00:44:33

Below is generated by plot.py at 2018-01-16 03:40:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.04 Mbit/s

95th percentile per-packet one-way delay: 139.203 ms

Loss rate: 0.30%

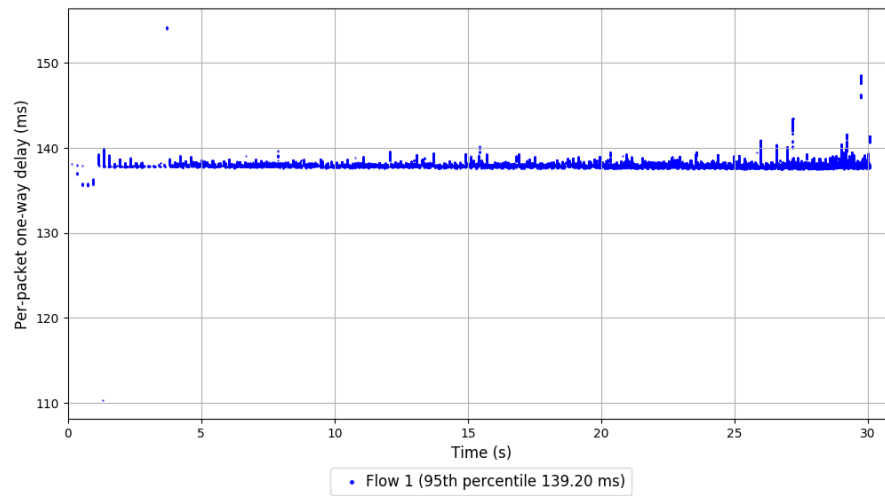
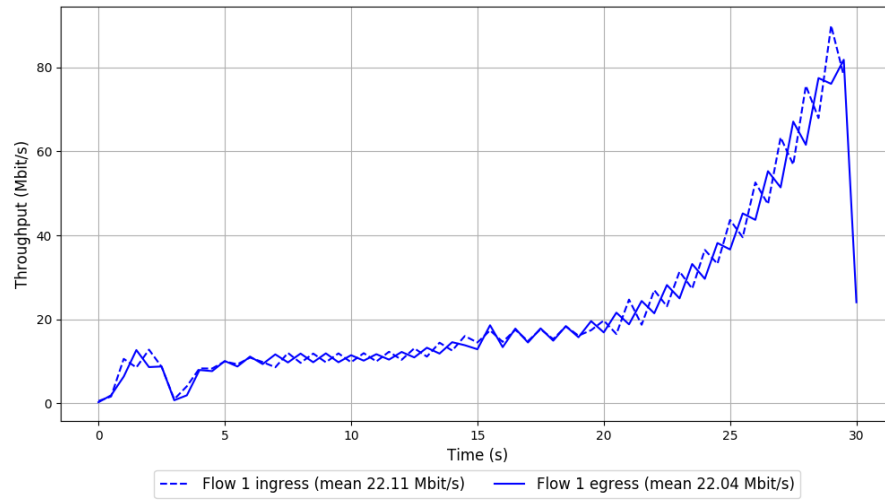
-- Flow 1:

Average throughput: 22.04 Mbit/s

95th percentile per-packet one-way delay: 139.203 ms

Loss rate: 0.30%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-16 00:56:07

End at: 2018-01-16 00:56:37

Below is generated by plot.py at 2018-01-16 03:41:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 127.96 Mbit/s

95th percentile per-packet one-way delay: 121.092 ms

Loss rate: 0.27%

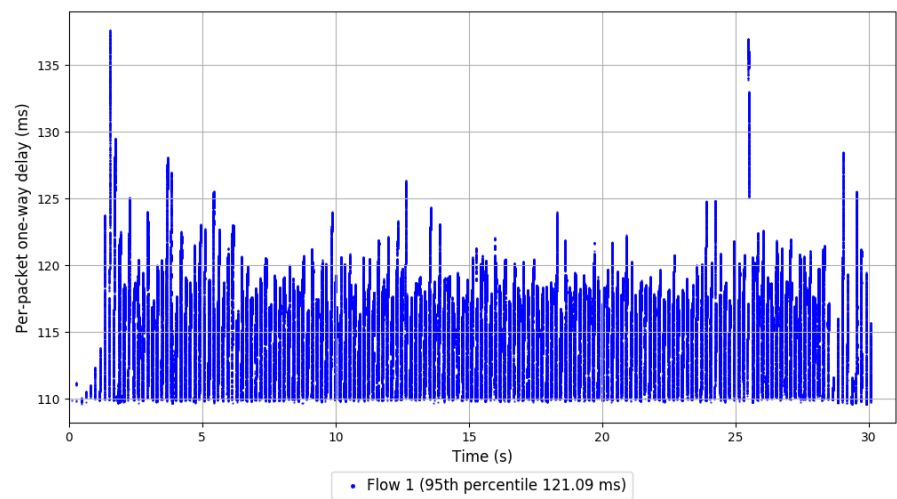
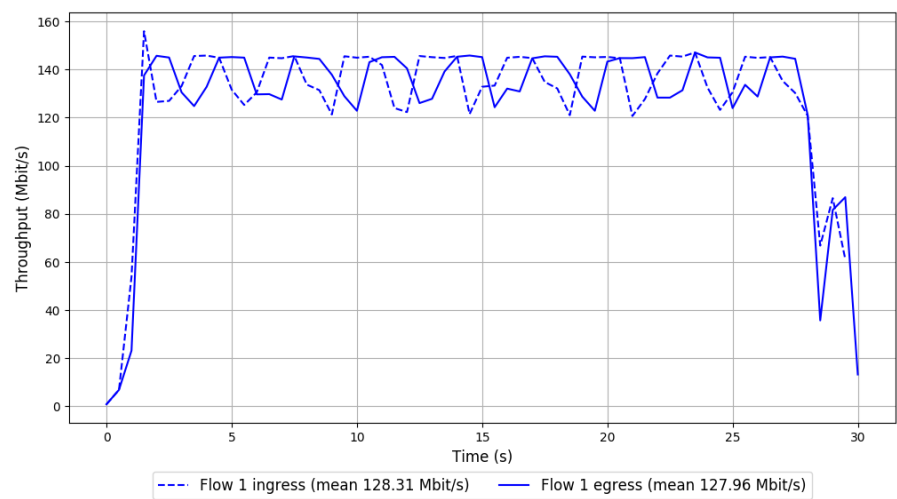
-- Flow 1:

Average throughput: 127.96 Mbit/s

95th percentile per-packet one-way delay: 121.092 ms

Loss rate: 0.27%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-16 01:08:15

End at: 2018-01-16 01:08:45

Below is generated by plot.py at 2018-01-16 03:41:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.61 Mbit/s

95th percentile per-packet one-way delay: 125.131 ms

Loss rate: 0.10%

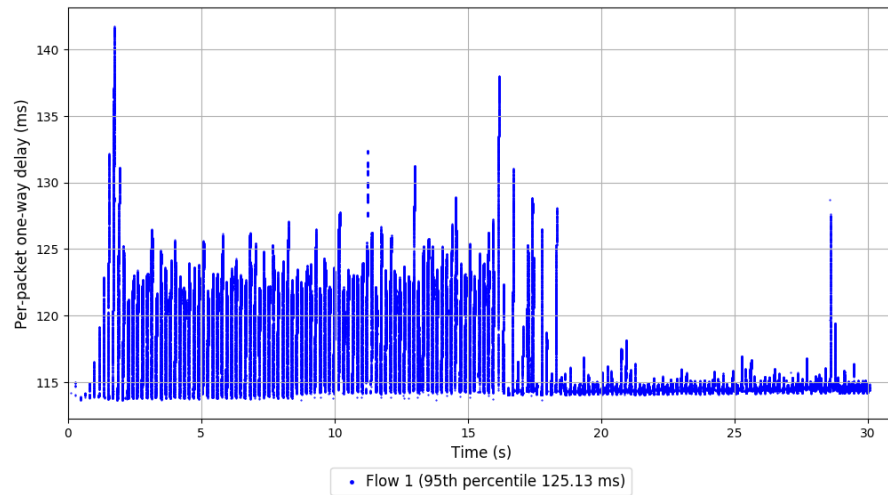
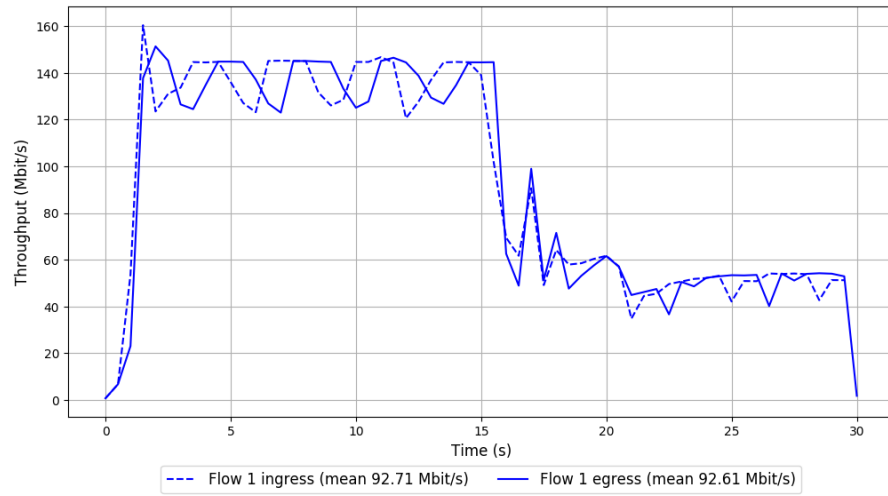
-- Flow 1:

Average throughput: 92.61 Mbit/s

95th percentile per-packet one-way delay: 125.131 ms

Loss rate: 0.10%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-16 01:20:17

End at: 2018-01-16 01:20:47

Below is generated by plot.py at 2018-01-16 03:41:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.10 Mbit/s

95th percentile per-packet one-way delay: 118.733 ms

Loss rate: 0.00%

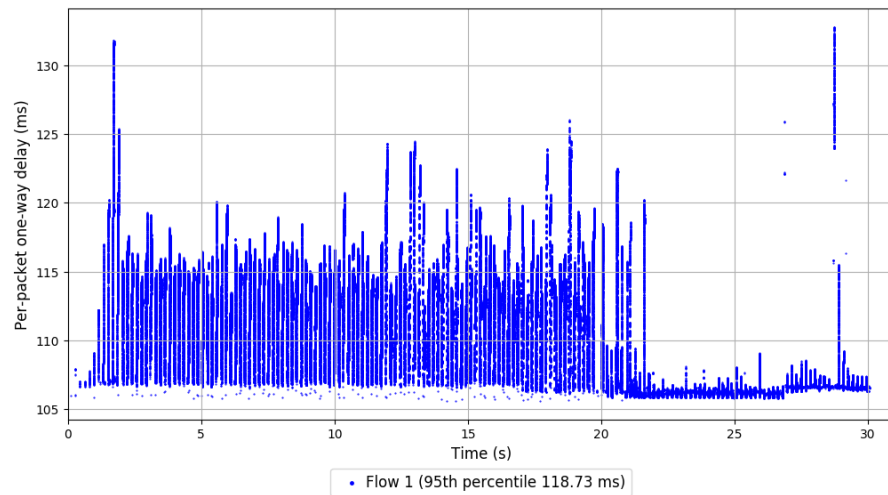
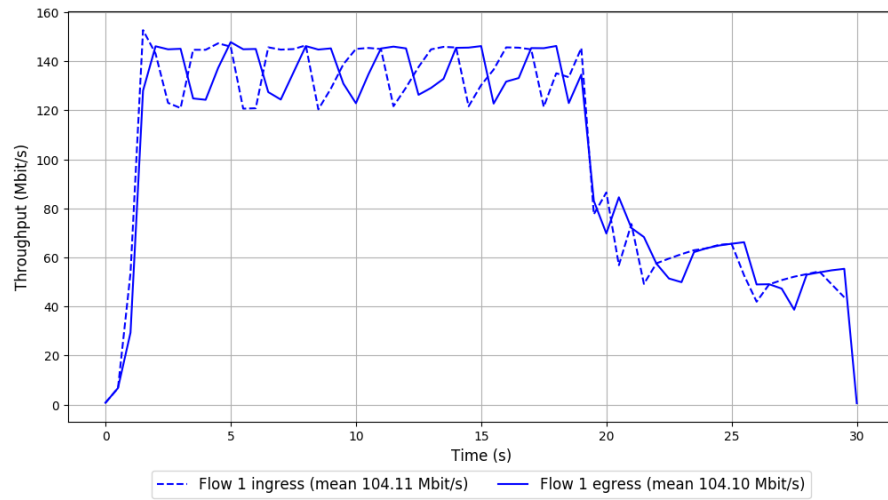
-- Flow 1:

Average throughput: 104.10 Mbit/s

95th percentile per-packet one-way delay: 118.733 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-16 01:32:12

End at: 2018-01-16 01:32:42

Below is generated by plot.py at 2018-01-16 03:41:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.92 Mbit/s

95th percentile per-packet one-way delay: 114.030 ms

Loss rate: 0.37%

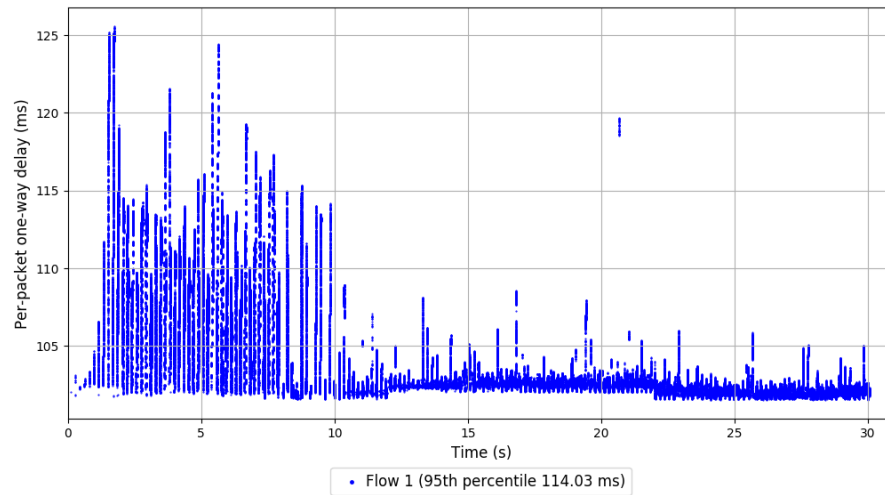
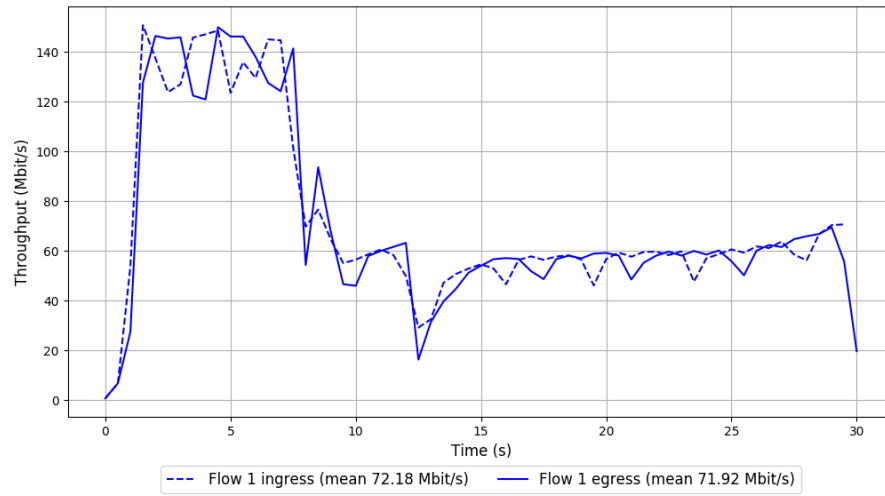
-- Flow 1:

Average throughput: 71.92 Mbit/s

95th percentile per-packet one-way delay: 114.030 ms

Loss rate: 0.37%

Run 5: Report of TCP Cubic — Data Link

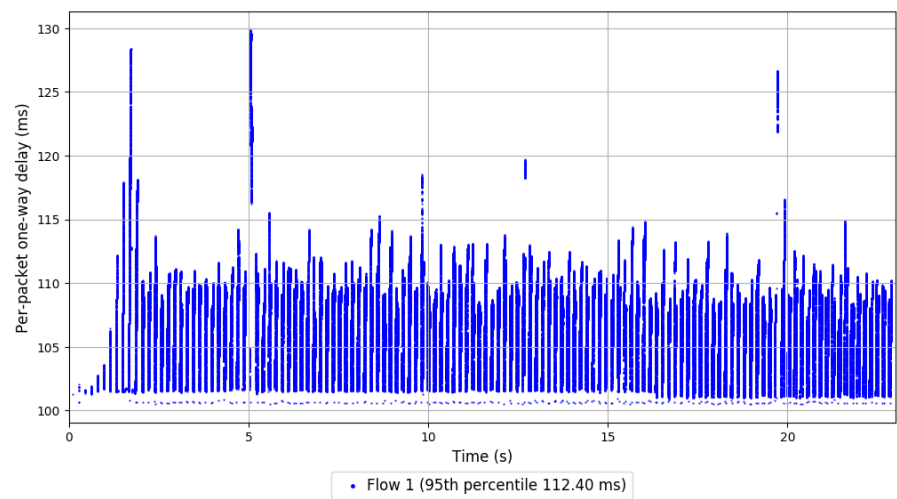
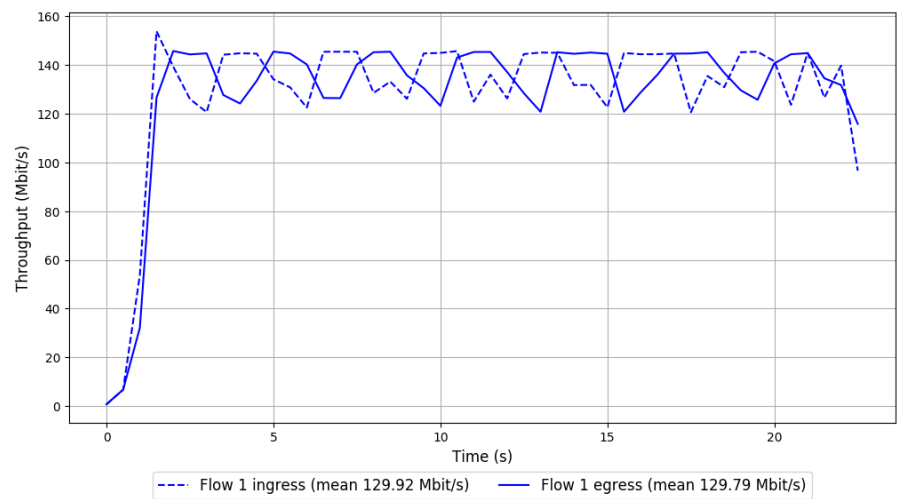


Run 6: Statistics of TCP Cubic

Start at: 2018-01-16 01:44:20

End at: 2018-01-16 01:44:50

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-16 01:56:24

End at: 2018-01-16 01:56:54

Below is generated by plot.py at 2018-01-16 03:41:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 115.66 Mbit/s

95th percentile per-packet one-way delay: 107.279 ms

Loss rate: 0.08%

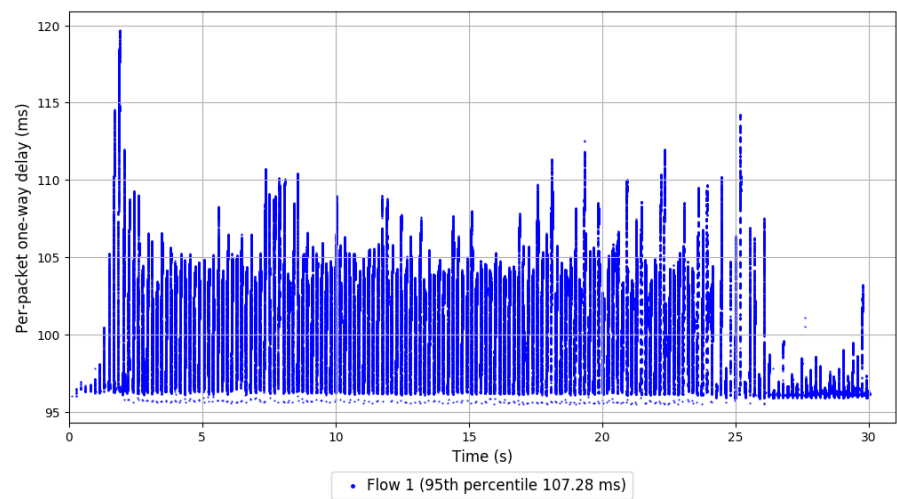
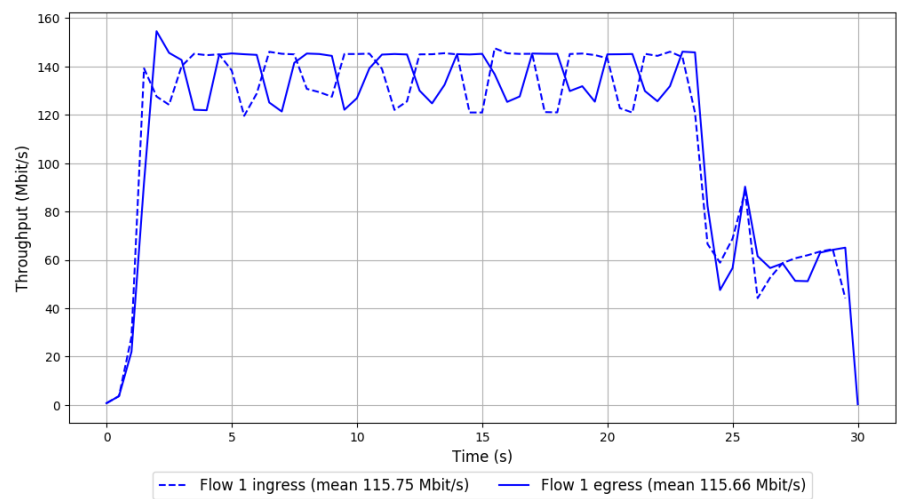
-- Flow 1:

Average throughput: 115.66 Mbit/s

95th percentile per-packet one-way delay: 107.279 ms

Loss rate: 0.08%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-16 02:08:21

End at: 2018-01-16 02:08:51

Below is generated by plot.py at 2018-01-16 03:41:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 123.54 Mbit/s

95th percentile per-packet one-way delay: 105.218 ms

Loss rate: 0.00%

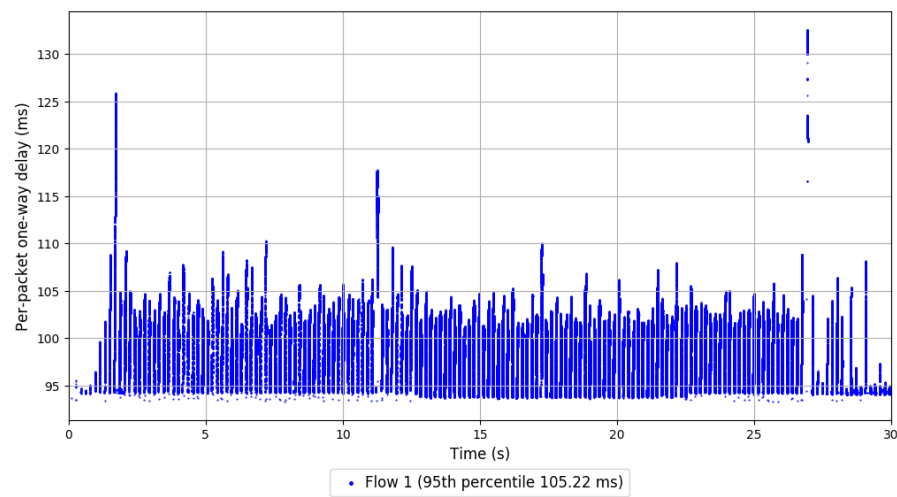
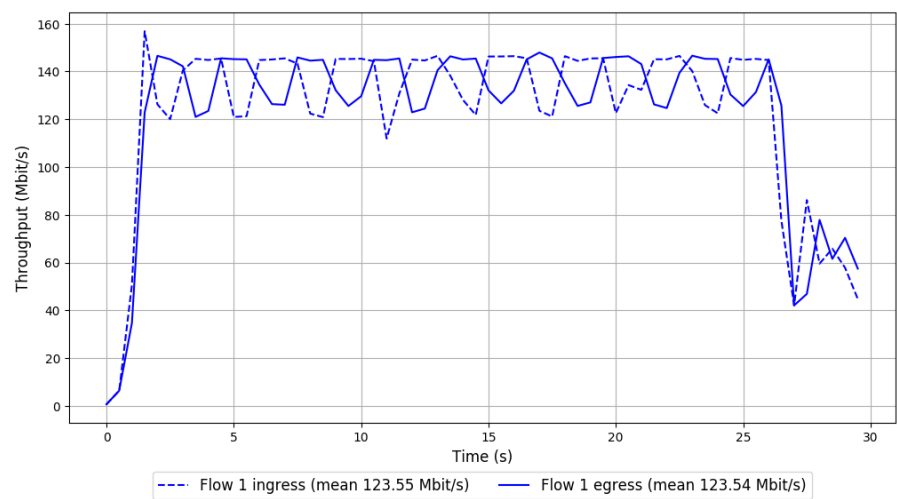
-- Flow 1:

Average throughput: 123.54 Mbit/s

95th percentile per-packet one-way delay: 105.218 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-16 02:20:24

End at: 2018-01-16 02:20:54

Below is generated by plot.py at 2018-01-16 03:41:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.54 Mbit/s

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

Loss rate: 0.01%

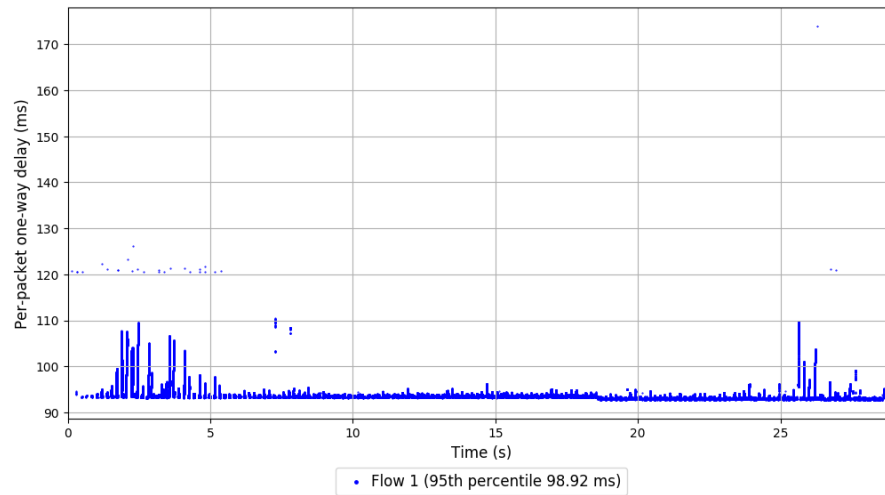
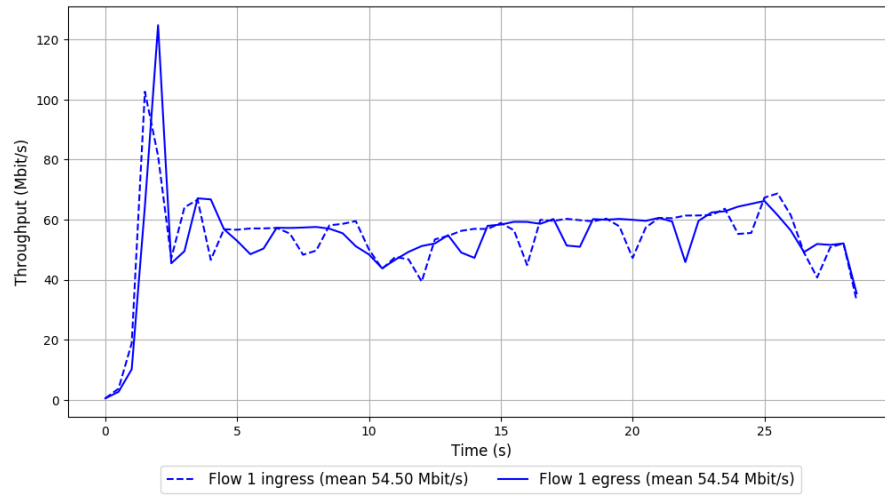
-- Flow 1:

Average throughput: 54.54 Mbit/s

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

Loss rate: 0.01%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-16 02:32:29

End at: 2018-01-16 02:32:59

Below is generated by plot.py at 2018-01-16 03:42:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.38 Mbit/s

95th percentile per-packet one-way delay: 103.349 ms

Loss rate: 0.00%

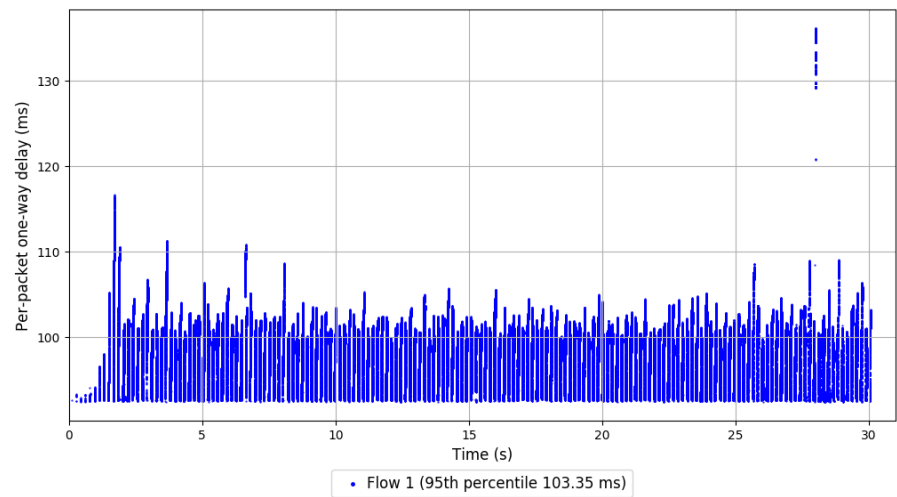
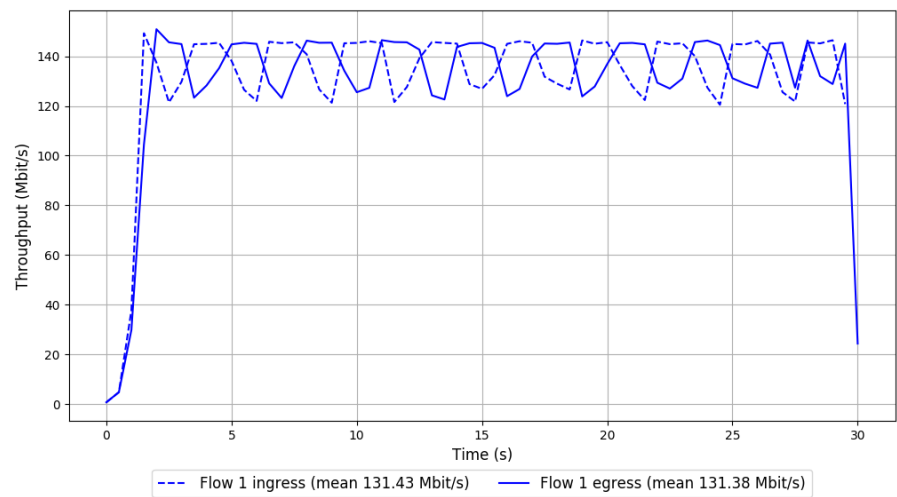
-- Flow 1:

Average throughput: 131.38 Mbit/s

95th percentile per-packet one-way delay: 103.349 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

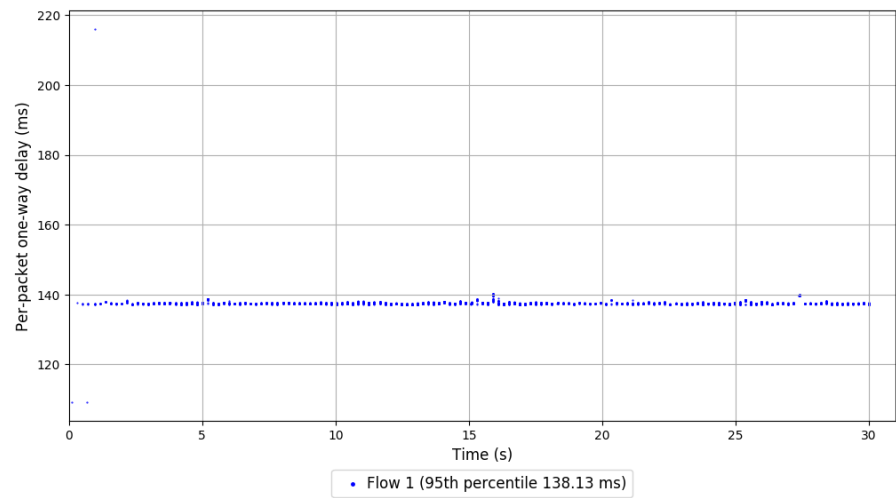
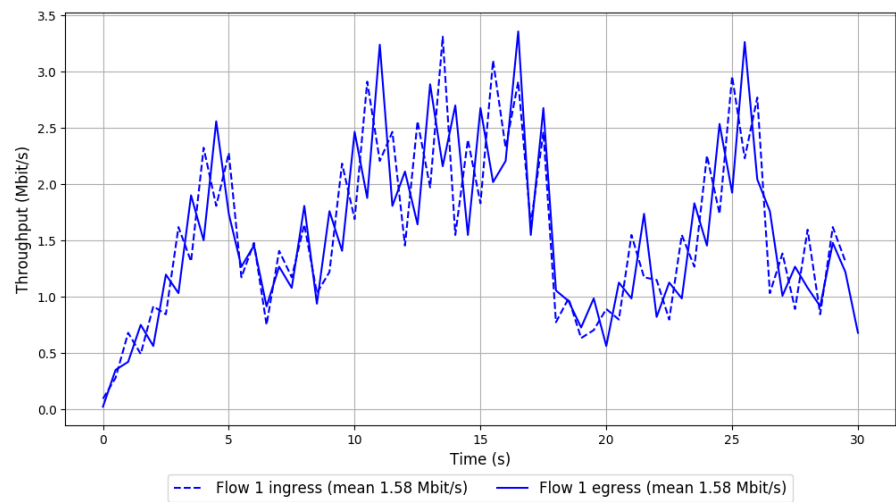


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-16 00:46:42
End at: 2018-01-16 00:47:12

# Below is generated by plot.py at 2018-01-16 03:42:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.58 Mbit/s
95th percentile per-packet one-way delay: 138.135 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.58 Mbit/s
95th percentile per-packet one-way delay: 138.135 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

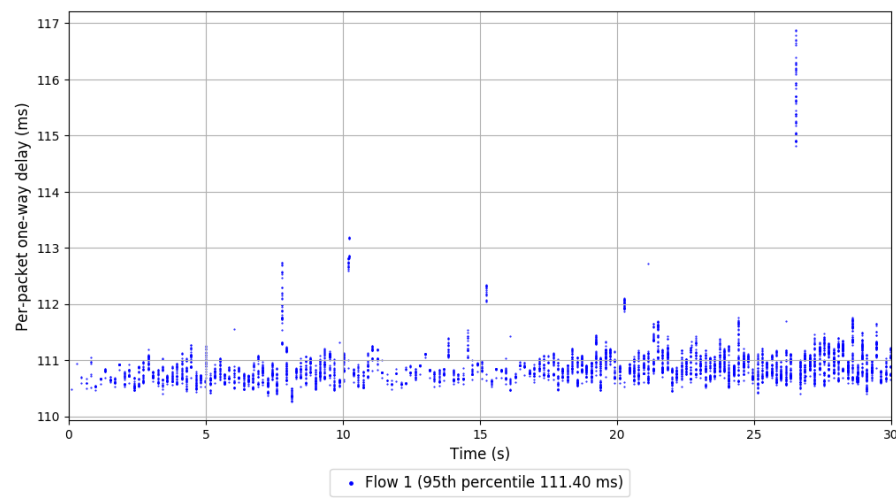
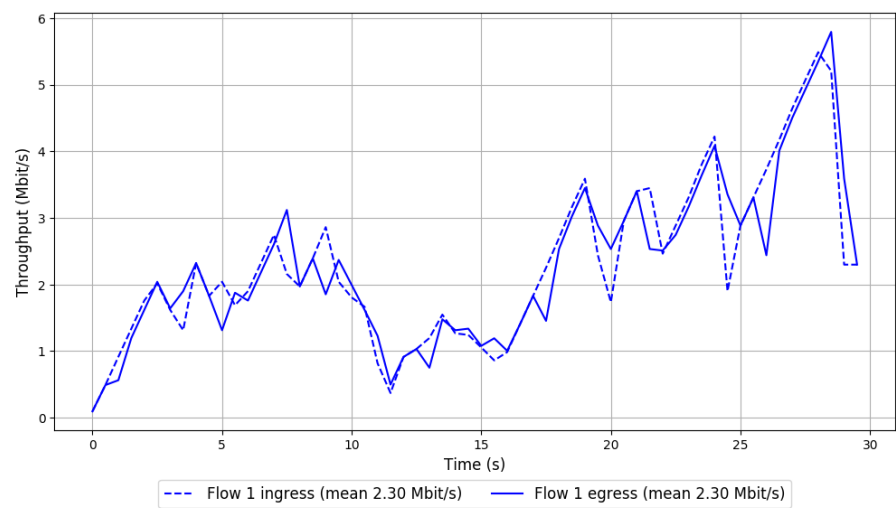


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-16 00:58:50
End at: 2018-01-16 00:59:20

# Below is generated by plot.py at 2018-01-16 03:42:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 111.397 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 111.397 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-16 01:10:58

End at: 2018-01-16 01:11:28

Below is generated by plot.py at 2018-01-16 03:42:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.60 Mbit/s

95th percentile per-packet one-way delay: 115.792 ms

Loss rate: 0.00%

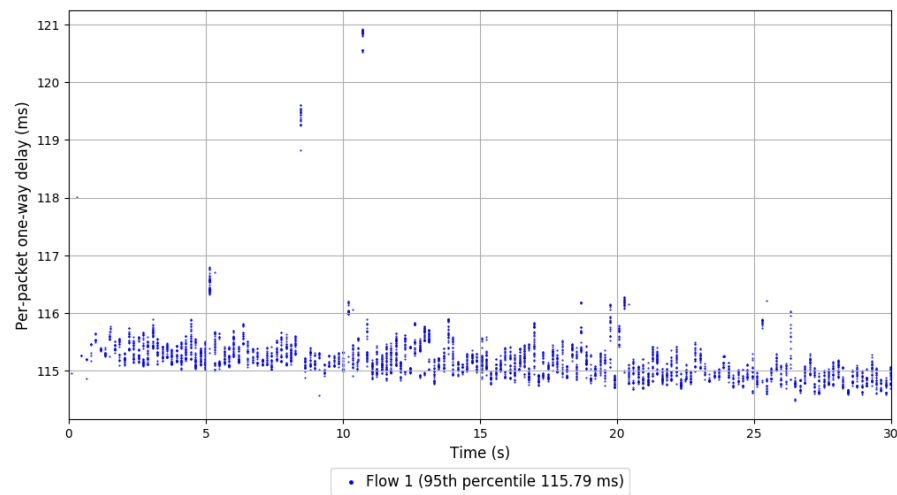
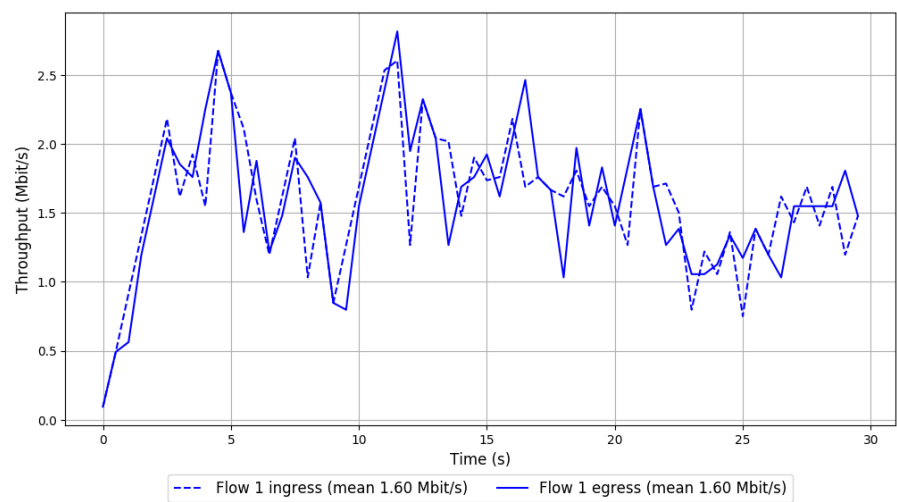
-- Flow 1:

Average throughput: 1.60 Mbit/s

95th percentile per-packet one-way delay: 115.792 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-16 01:22:56

End at: 2018-01-16 01:23:26

Below is generated by plot.py at 2018-01-16 03:42:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.50 Mbit/s

95th percentile per-packet one-way delay: 105.798 ms

Loss rate: 0.00%

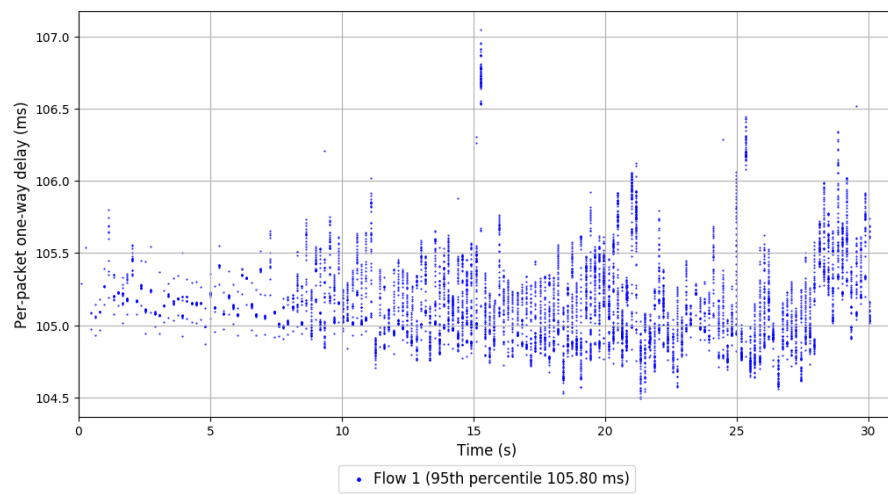
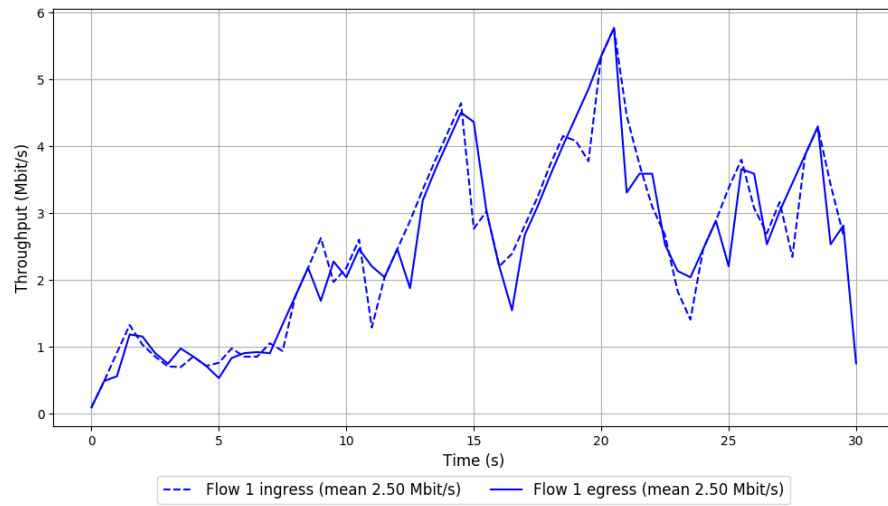
-- Flow 1:

Average throughput: 2.50 Mbit/s

95th percentile per-packet one-way delay: 105.798 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-16 01:34:49

End at: 2018-01-16 01:35:19

Below is generated by plot.py at 2018-01-16 03:42:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.66 Mbit/s

95th percentile per-packet one-way delay: 102.463 ms

Loss rate: 0.00%

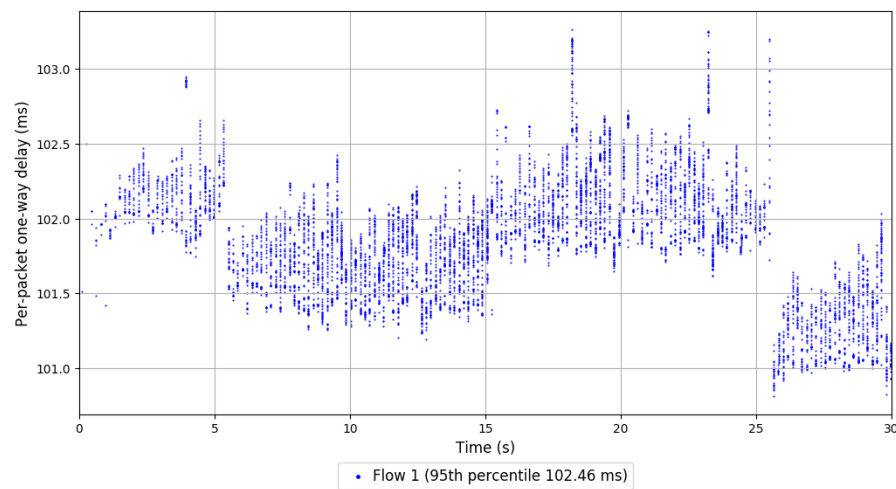
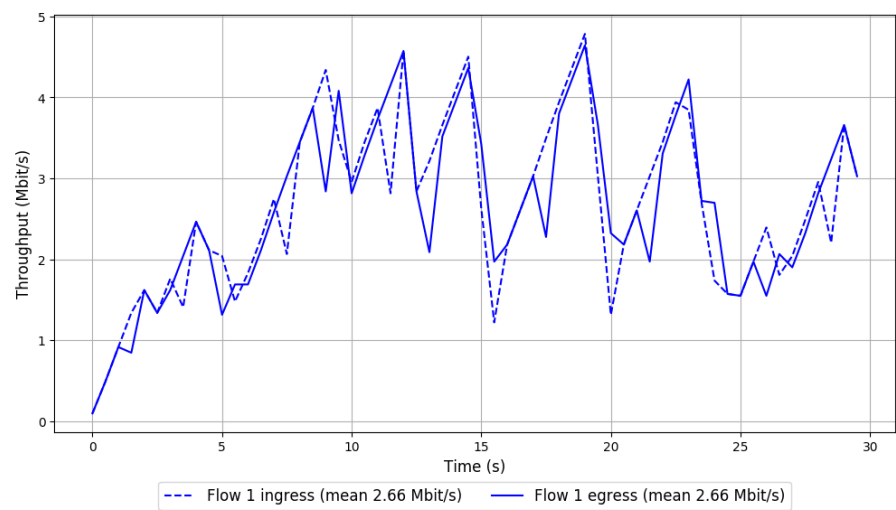
-- Flow 1:

Average throughput: 2.66 Mbit/s

95th percentile per-packet one-way delay: 102.463 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-16 01:47:02

End at: 2018-01-16 01:47:32

Below is generated by plot.py at 2018-01-16 03:42:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.48 Mbit/s

95th percentile per-packet one-way delay: 101.878 ms

Loss rate: 0.13%

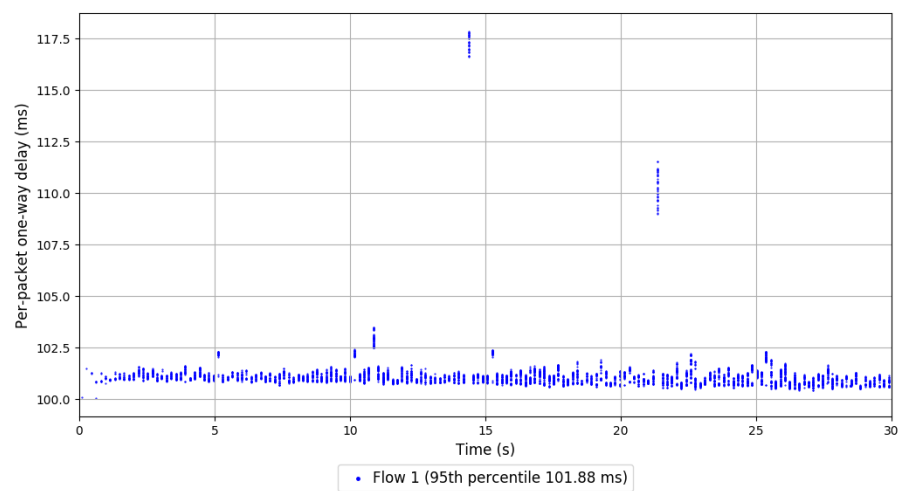
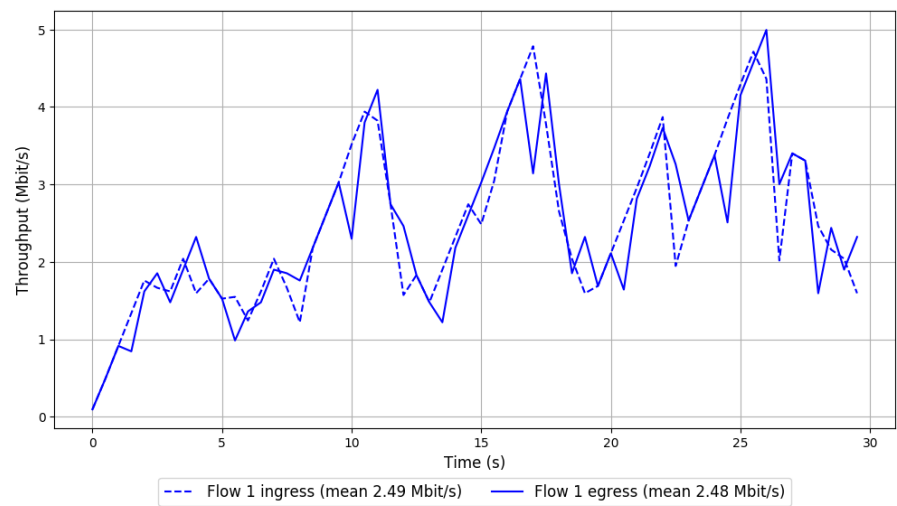
-- Flow 1:

Average throughput: 2.48 Mbit/s

95th percentile per-packet one-way delay: 101.878 ms

Loss rate: 0.13%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-16 01:59:05

End at: 2018-01-16 01:59:35

Below is generated by plot.py at 2018-01-16 03:42:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.92 Mbit/s

95th percentile per-packet one-way delay: 96.310 ms

Loss rate: 0.07%

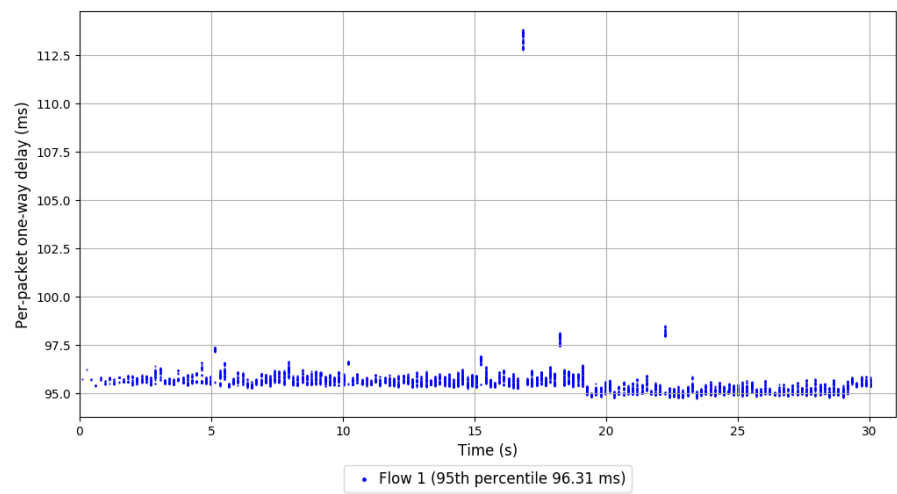
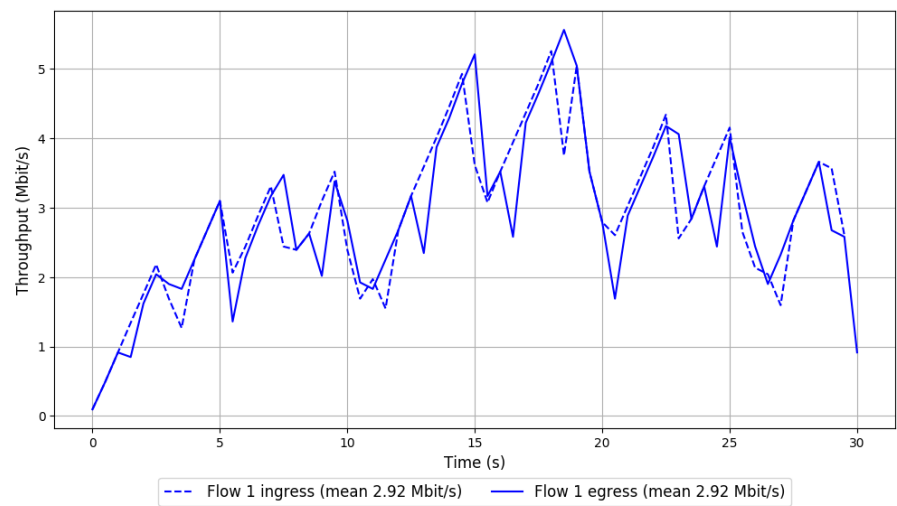
-- Flow 1:

Average throughput: 2.92 Mbit/s

95th percentile per-packet one-way delay: 96.310 ms

Loss rate: 0.07%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-16 02:10:54

End at: 2018-01-16 02:11:24

Below is generated by plot.py at 2018-01-16 03:42:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.00 Mbit/s

95th percentile per-packet one-way delay: 94.706 ms

Loss rate: 0.00%

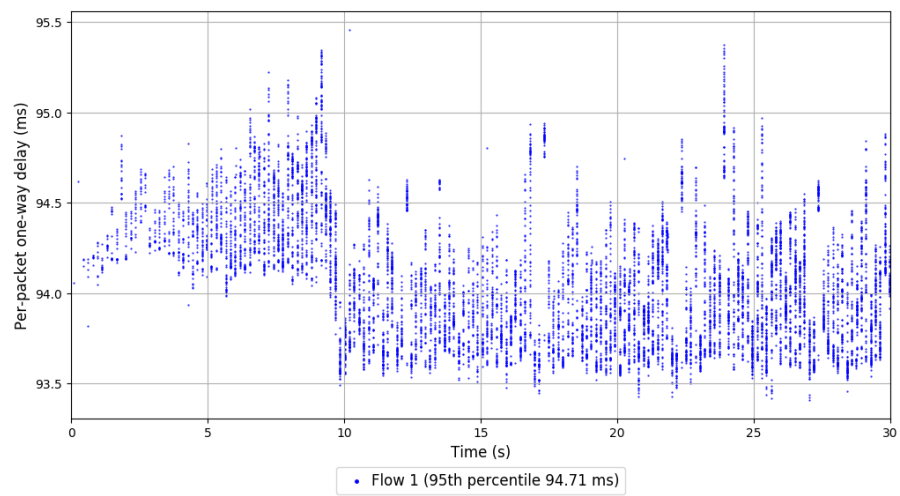
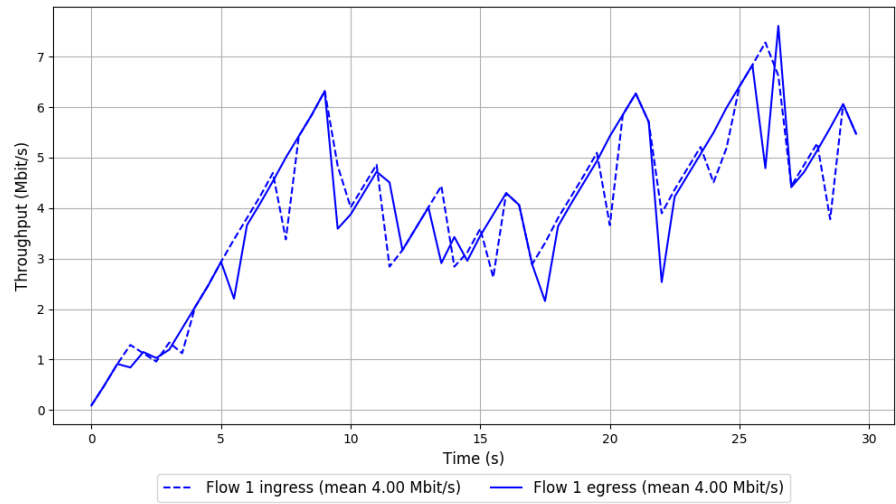
-- Flow 1:

Average throughput: 4.00 Mbit/s

95th percentile per-packet one-way delay: 94.706 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-16 02:23:07

End at: 2018-01-16 02:23:37

Below is generated by plot.py at 2018-01-16 03:42:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.44 Mbit/s

95th percentile per-packet one-way delay: 93.888 ms

Loss rate: 0.12%

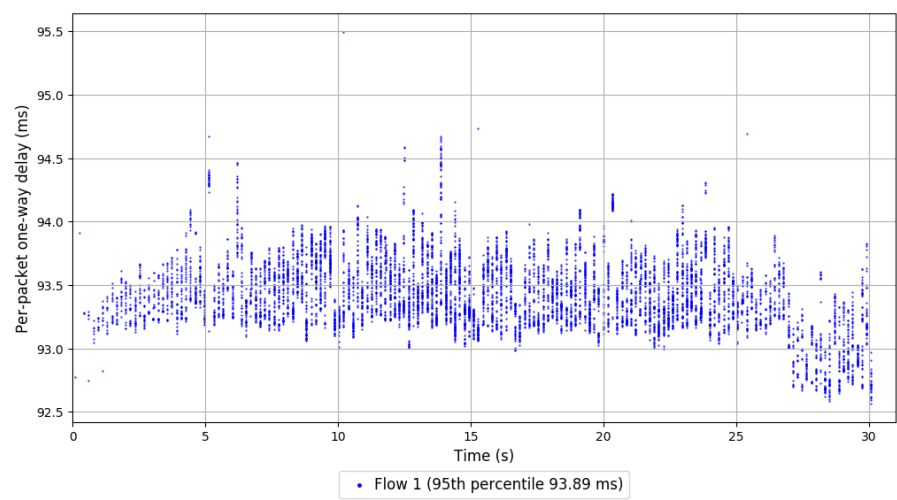
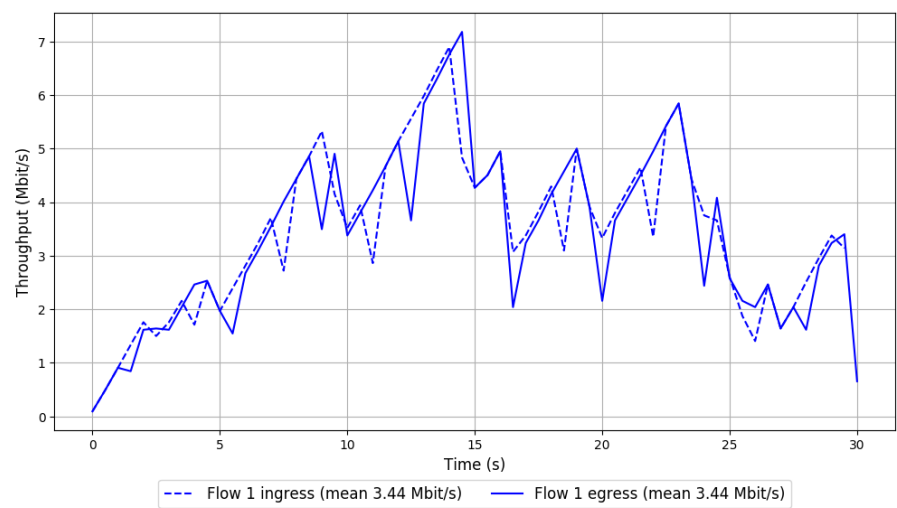
-- Flow 1:

Average throughput: 3.44 Mbit/s

95th percentile per-packet one-way delay: 93.888 ms

Loss rate: 0.12%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-16 02:35:16

End at: 2018-01-16 02:35:46

Below is generated by plot.py at 2018-01-16 03:42:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.86 Mbit/s

95th percentile per-packet one-way delay: 93.210 ms

Loss rate: 0.00%

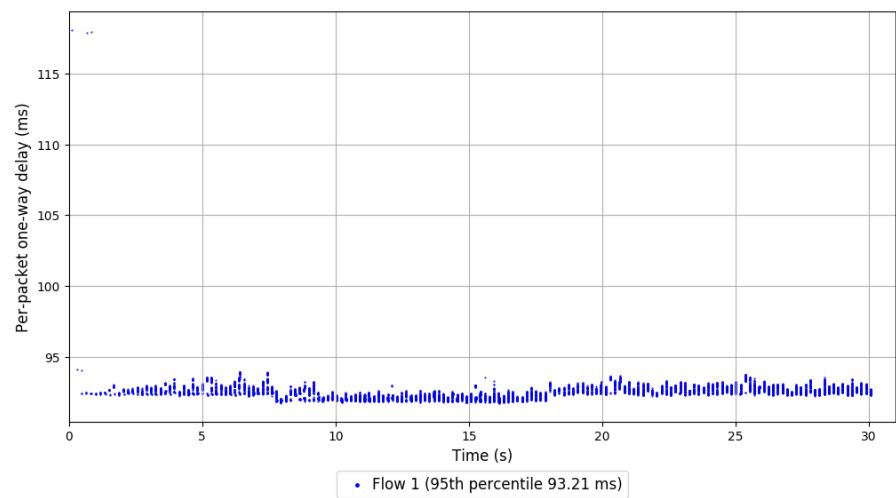
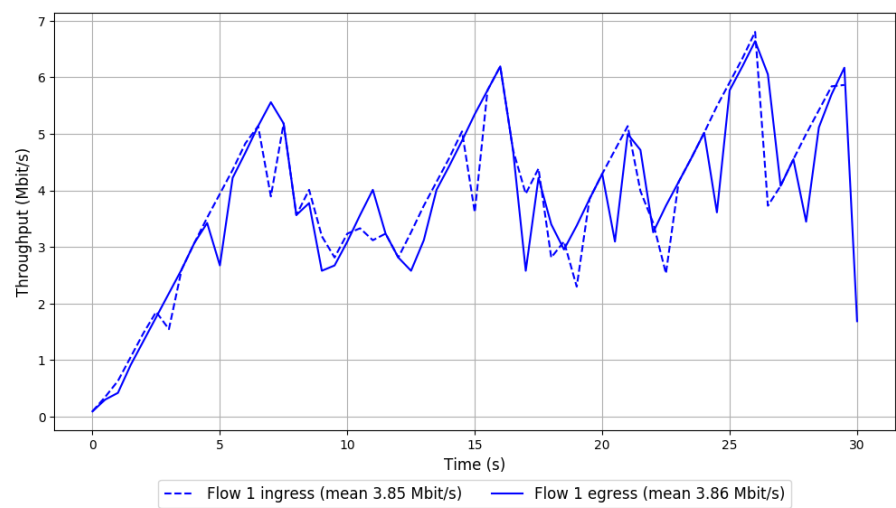
-- Flow 1:

Average throughput: 3.86 Mbit/s

95th percentile per-packet one-way delay: 93.210 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

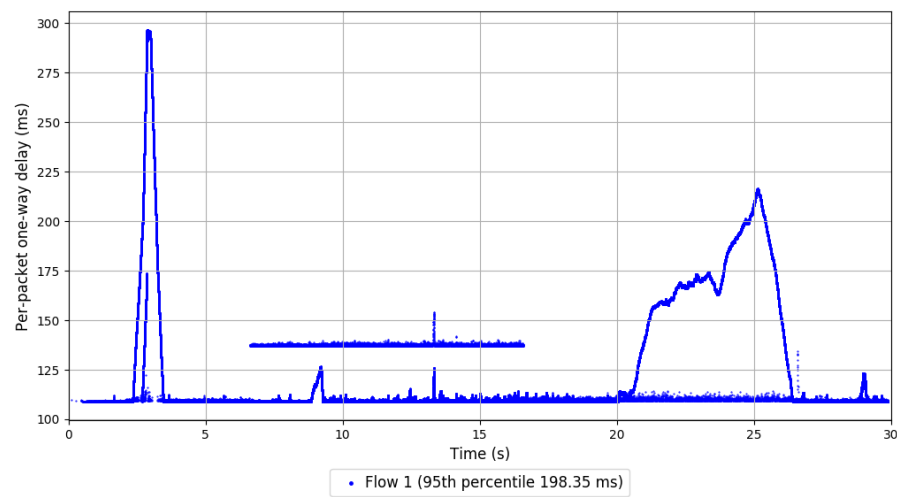
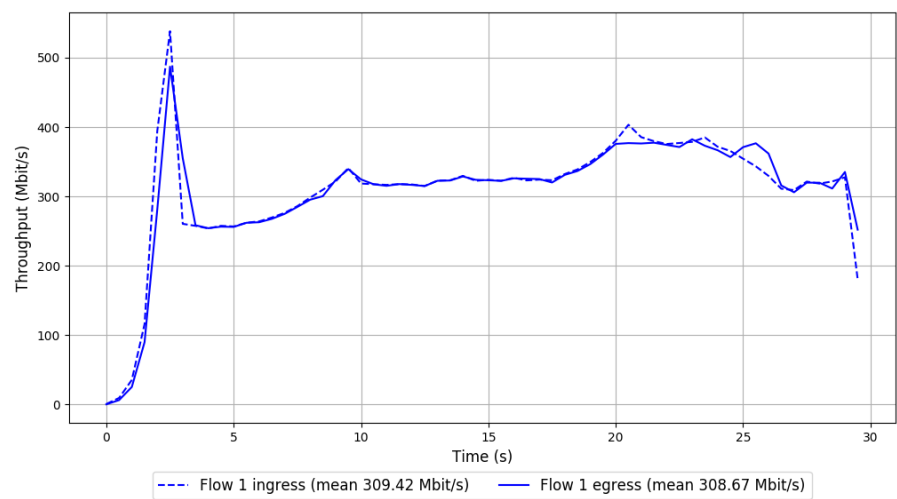


```
Run 1: Statistics of PCC

Start at: 2018-01-16 00:48:47
End at: 2018-01-16 00:49:17

# Below is generated by plot.py at 2018-01-16 03:45:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 308.67 Mbit/s
95th percentile per-packet one-way delay: 198.353 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 308.67 Mbit/s
95th percentile per-packet one-way delay: 198.353 ms
Loss rate: 0.29%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-16 01:00:55

End at: 2018-01-16 01:01:25

Below is generated by plot.py at 2018-01-16 03:45:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 322.12 Mbit/s

95th percentile per-packet one-way delay: 281.697 ms

Loss rate: 0.43%

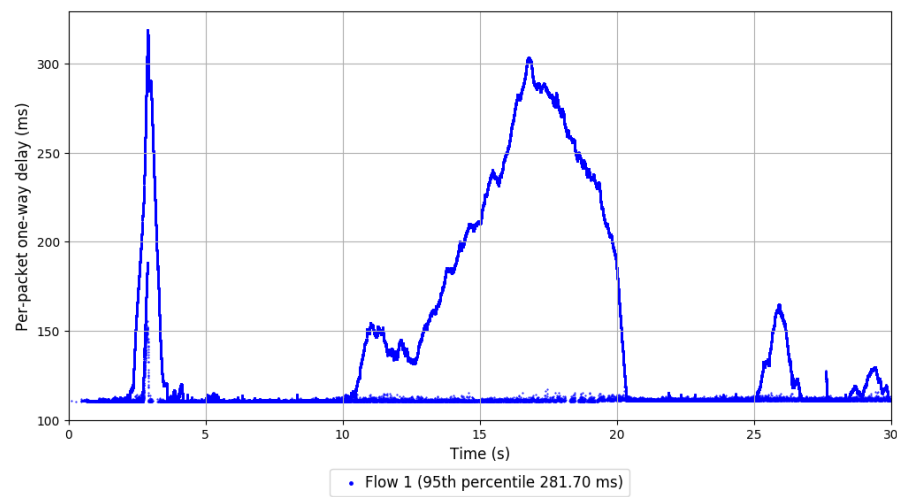
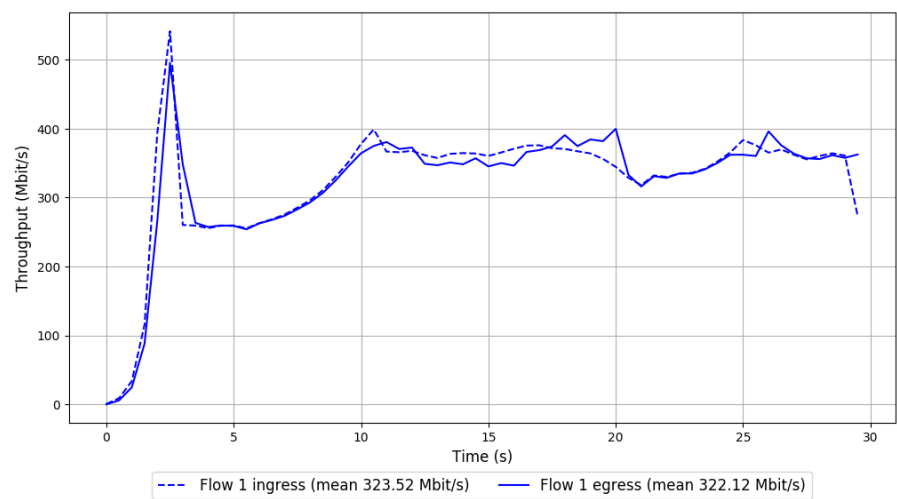
-- Flow 1:

Average throughput: 322.12 Mbit/s

95th percentile per-packet one-way delay: 281.697 ms

Loss rate: 0.43%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-16 01:13:03

End at: 2018-01-16 01:13:33

Below is generated by plot.py at 2018-01-16 03:46:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 355.89 Mbit/s

95th percentile per-packet one-way delay: 157.038 ms

Loss rate: 0.34%

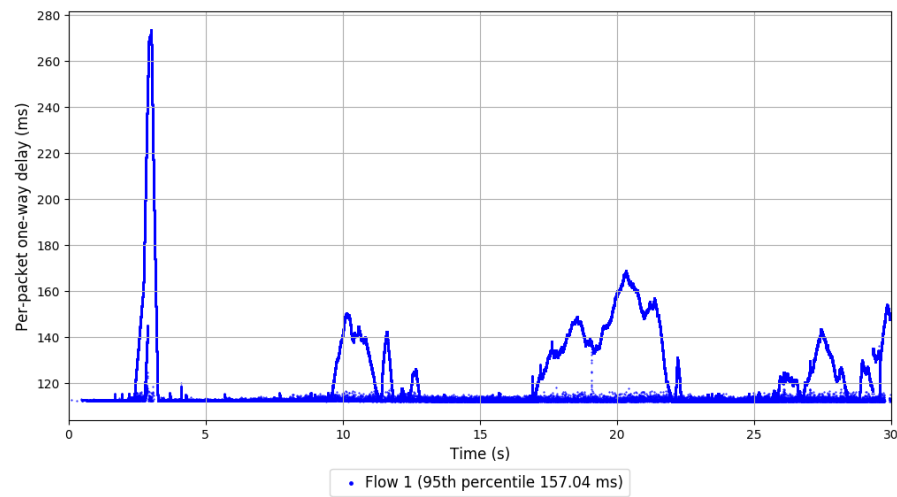
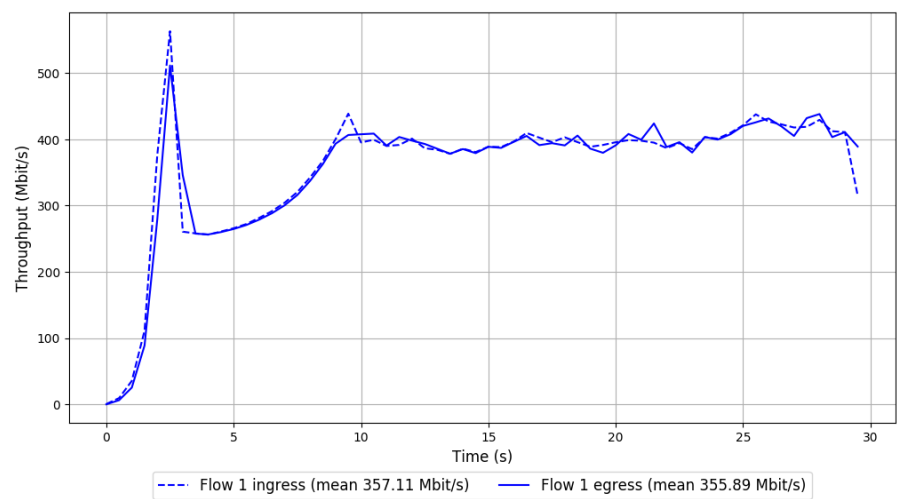
-- Flow 1:

Average throughput: 355.89 Mbit/s

95th percentile per-packet one-way delay: 157.038 ms

Loss rate: 0.34%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-16 01:25:02

End at: 2018-01-16 01:25:32

Below is generated by plot.py at 2018-01-16 03:46:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 303.47 Mbit/s

95th percentile per-packet one-way delay: 137.814 ms

Loss rate: 0.34%

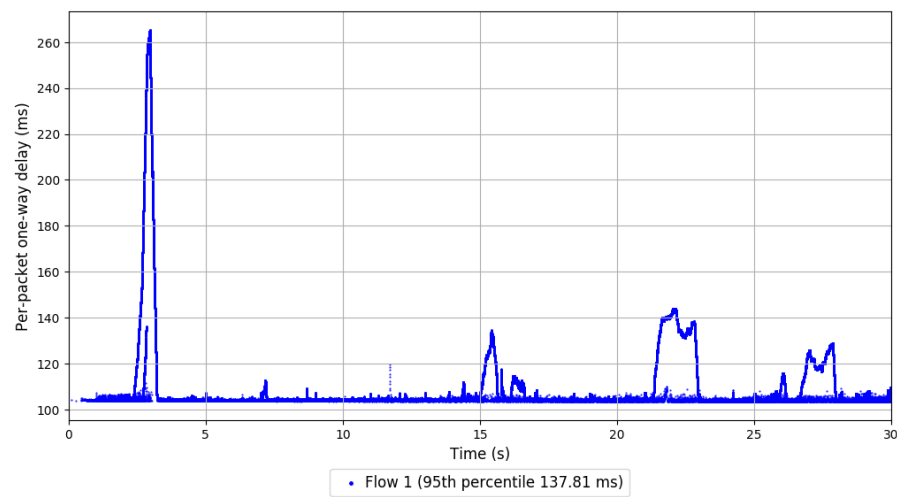
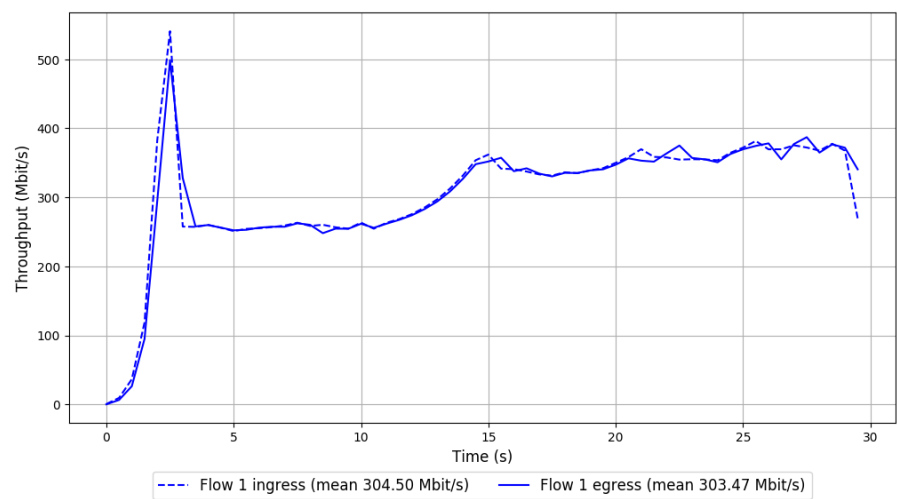
-- Flow 1:

Average throughput: 303.47 Mbit/s

95th percentile per-packet one-way delay: 137.814 ms

Loss rate: 0.34%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-16 01:36:56

End at: 2018-01-16 01:37:26

Below is generated by plot.py at 2018-01-16 03:46:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 346.96 Mbit/s

95th percentile per-packet one-way delay: 147.811 ms

Loss rate: 0.28%

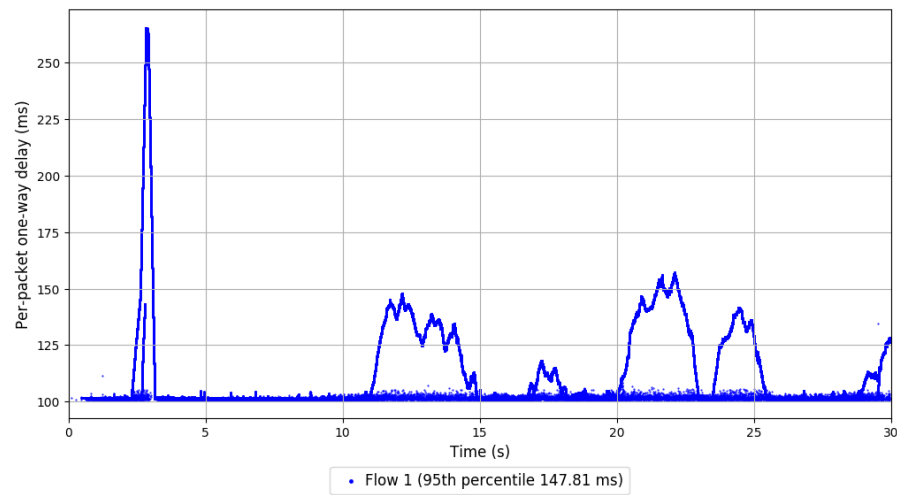
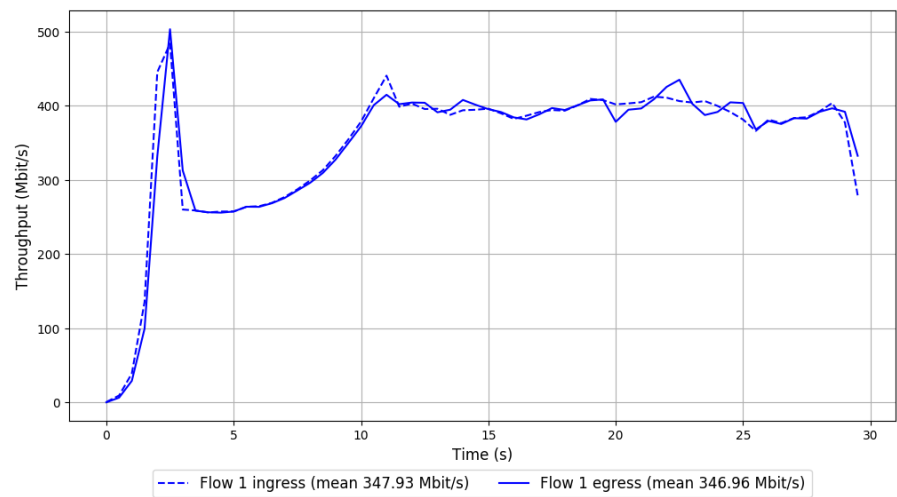
-- Flow 1:

Average throughput: 346.96 Mbit/s

95th percentile per-packet one-way delay: 147.811 ms

Loss rate: 0.28%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-16 01:49:08

End at: 2018-01-16 01:49:38

Below is generated by plot.py at 2018-01-16 03:46:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 340.47 Mbit/s

95th percentile per-packet one-way delay: 200.959 ms

Loss rate: 0.18%

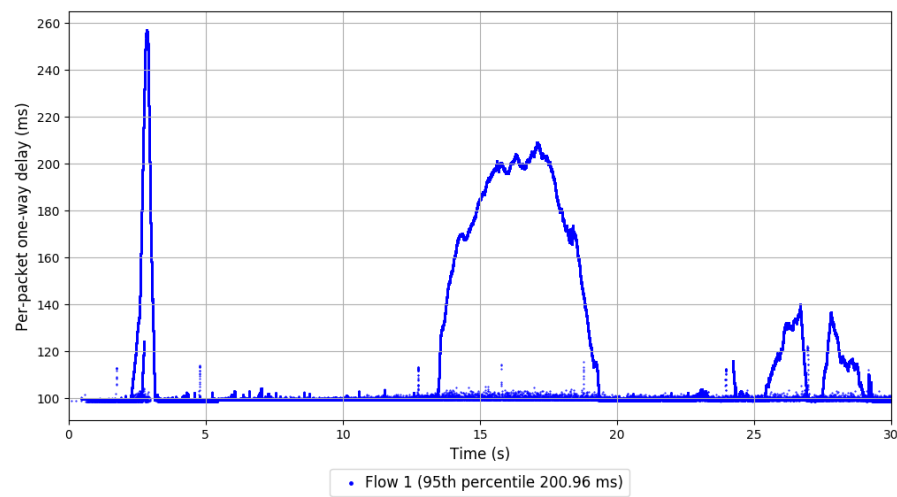
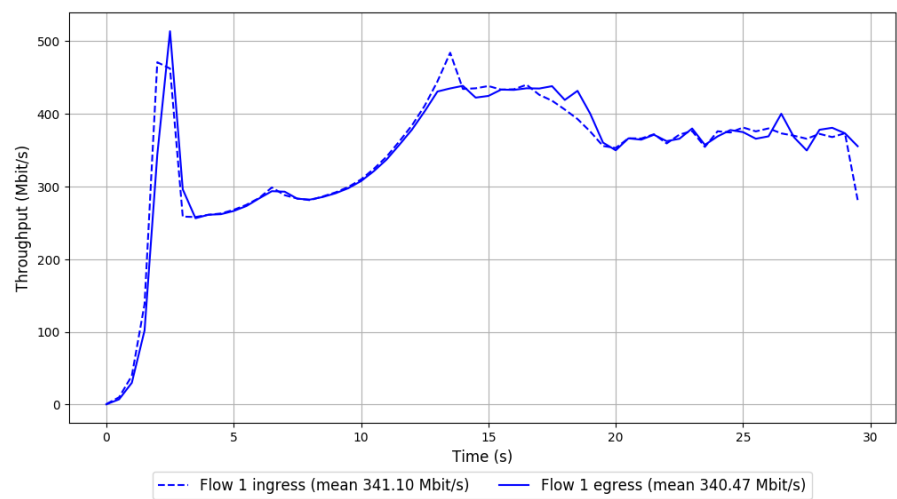
-- Flow 1:

Average throughput: 340.47 Mbit/s

95th percentile per-packet one-way delay: 200.959 ms

Loss rate: 0.18%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-16 02:01:09

End at: 2018-01-16 02:01:39

Below is generated by plot.py at 2018-01-16 03:48:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 349.06 Mbit/s

95th percentile per-packet one-way delay: 142.937 ms

Loss rate: 0.36%

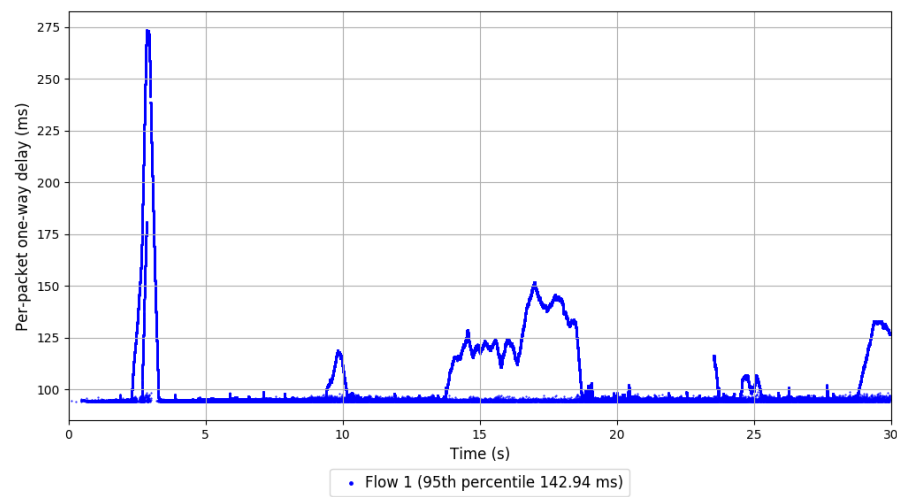
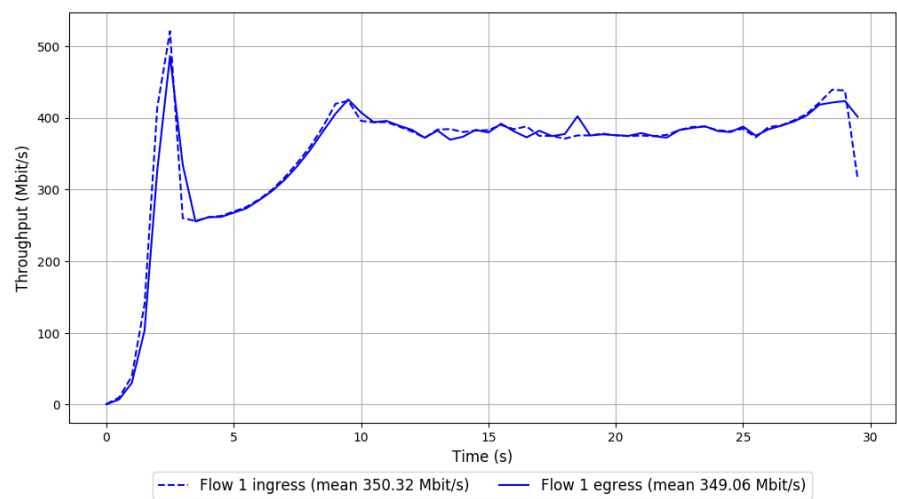
-- Flow 1:

Average throughput: 349.06 Mbit/s

95th percentile per-packet one-way delay: 142.937 ms

Loss rate: 0.36%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

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

End at: 2018-01-16 02:13:32

Below is generated by plot.py at 2018-01-16 03:48:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 341.68 Mbit/s

95th percentile per-packet one-way delay: 147.854 ms

Loss rate: 0.26%

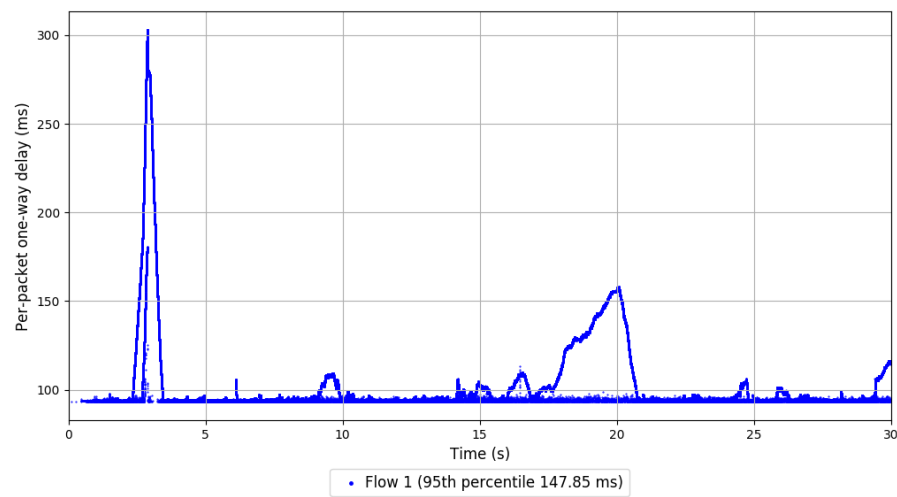
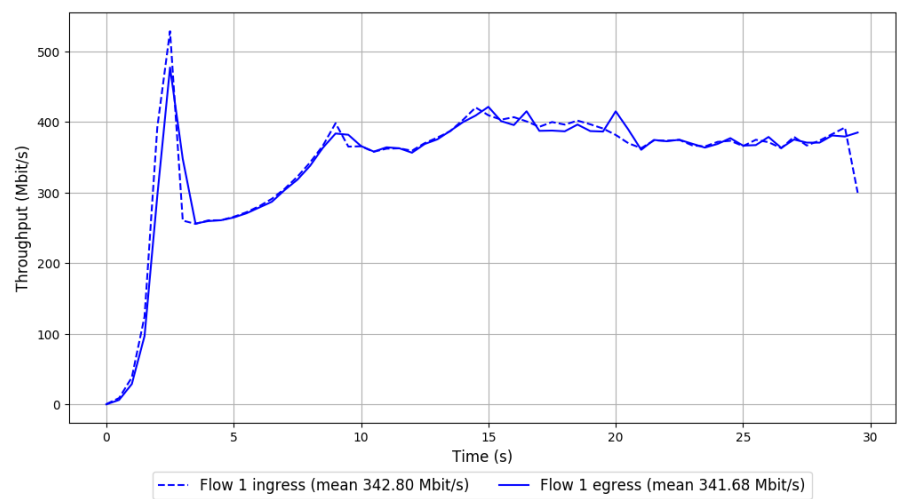
-- Flow 1:

Average throughput: 341.68 Mbit/s

95th percentile per-packet one-way delay: 147.854 ms

Loss rate: 0.26%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-16 02:25:11

End at: 2018-01-16 02:25:41

Below is generated by plot.py at 2018-01-16 03:51:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 307.57 Mbit/s

95th percentile per-packet one-way delay: 120.844 ms

Loss rate: 0.27%

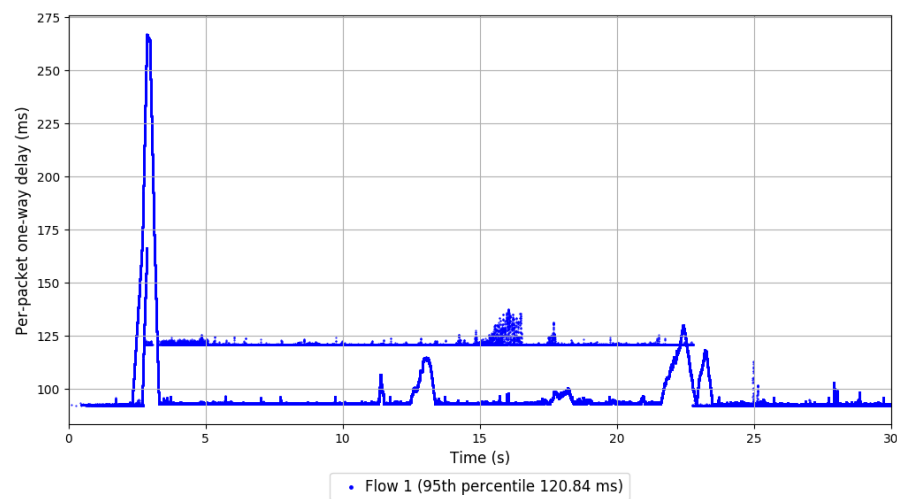
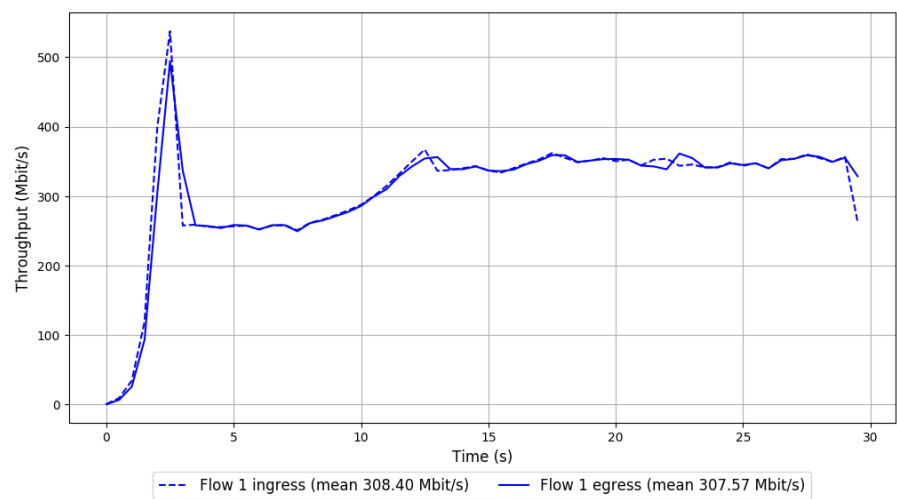
-- Flow 1:

Average throughput: 307.57 Mbit/s

95th percentile per-packet one-way delay: 120.844 ms

Loss rate: 0.27%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-01-16 02:37:25

End at: 2018-01-16 02:37:55

Below is generated by plot.py at 2018-01-16 03:52:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 349.66 Mbit/s

95th percentile per-packet one-way delay: 134.629 ms

Loss rate: 0.36%

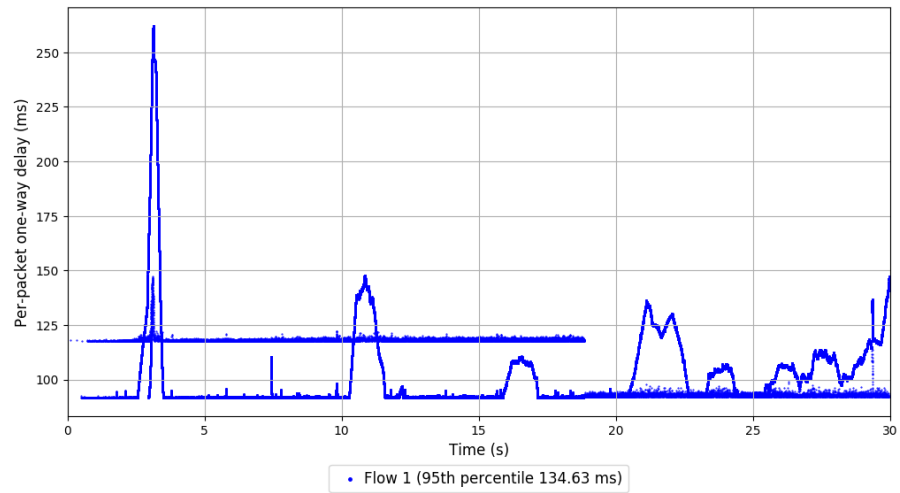
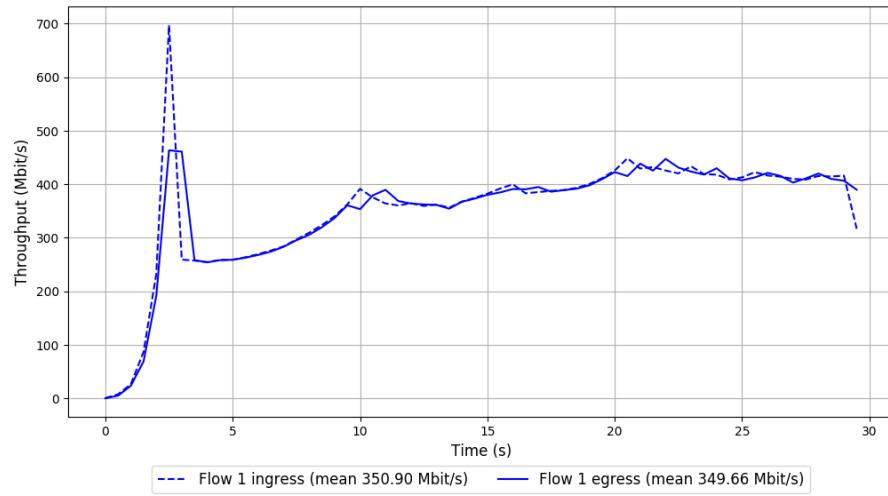
-- Flow 1:

Average throughput: 349.66 Mbit/s

95th percentile per-packet one-way delay: 134.629 ms

Loss rate: 0.36%

Run 10: Report of PCC — Data Link

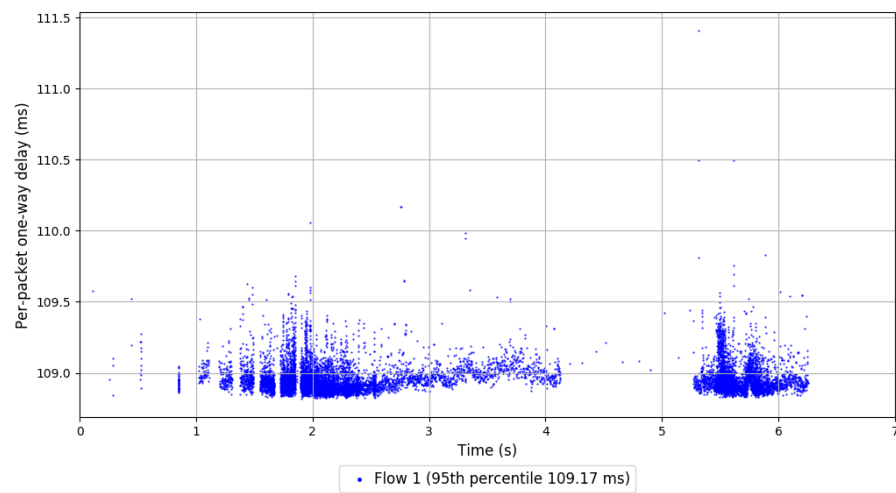
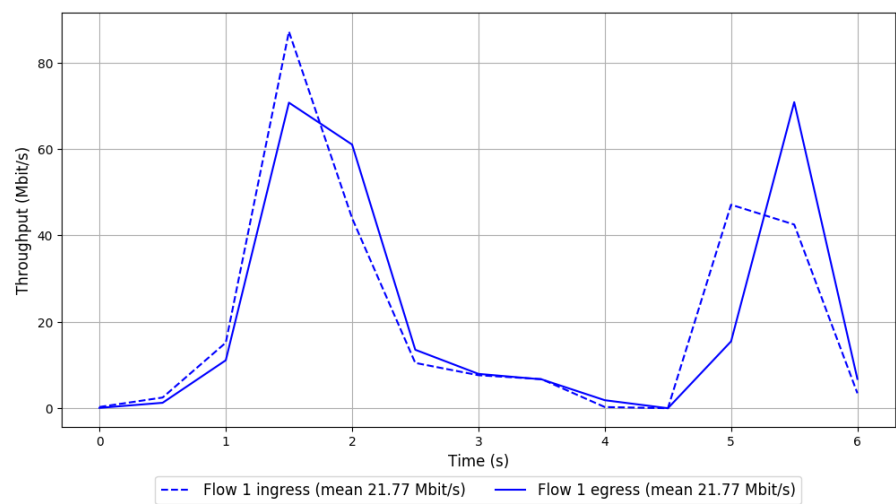


Run 1: Statistics of QUIC Cubic

Start at: 2018-01-16 00:47:22

End at: 2018-01-16 00:47:52

Run 1: Report of QUIC Cubic — Data Link

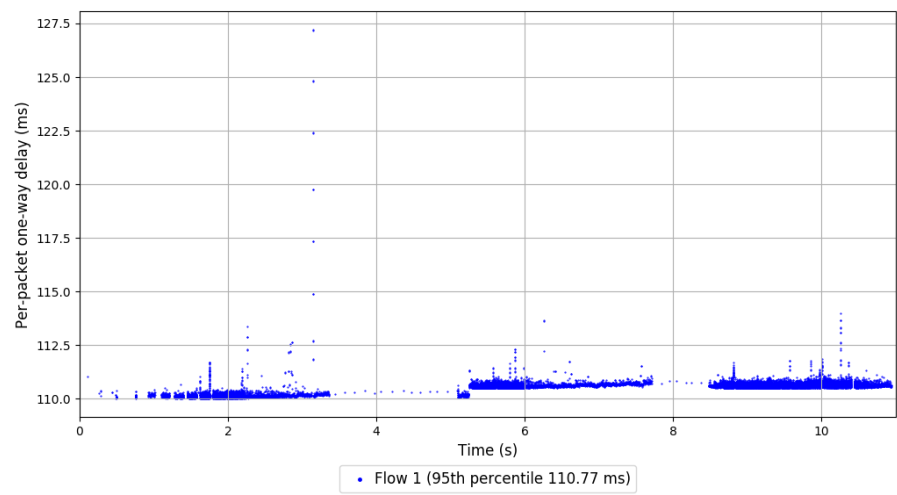
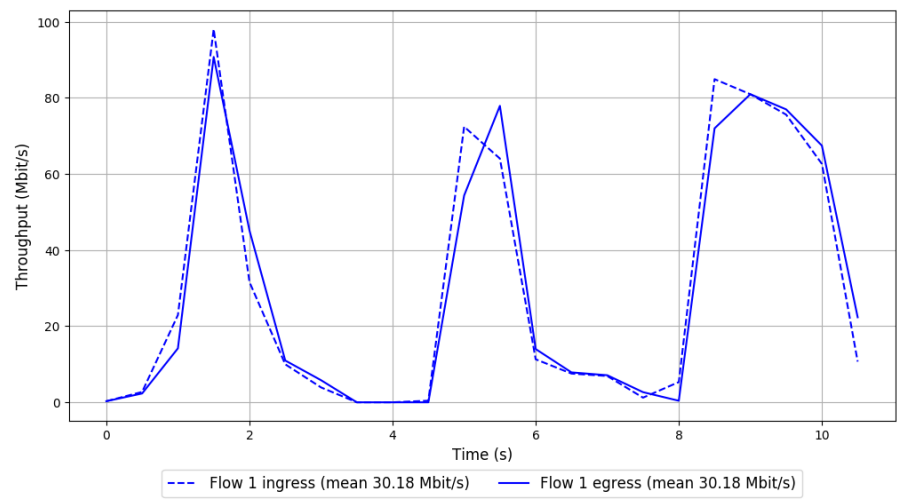


Run 2: Statistics of QUIC Cubic

Start at: 2018-01-16 00:59:30

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

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-16 01:11:37

End at: 2018-01-16 01:12:07

Below is generated by plot.py at 2018-01-16 03:52:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.92 Mbit/s

95th percentile per-packet one-way delay: 114.349 ms

Loss rate: 0.00%

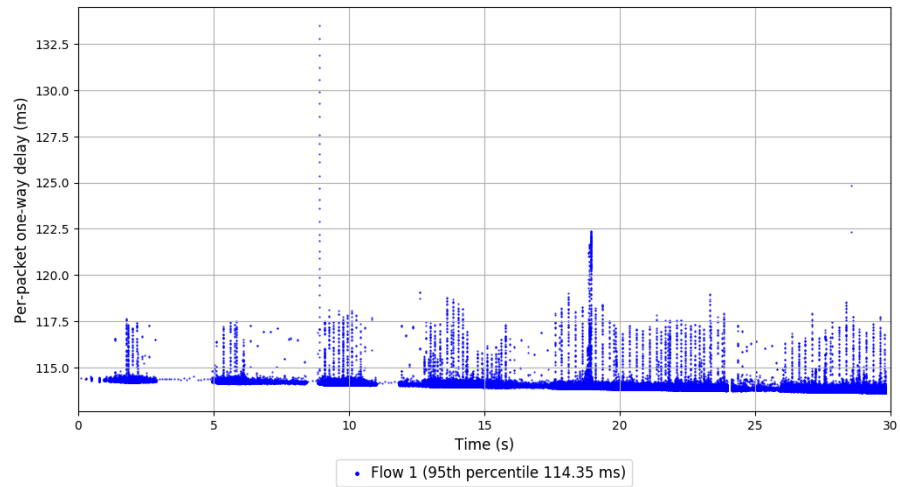
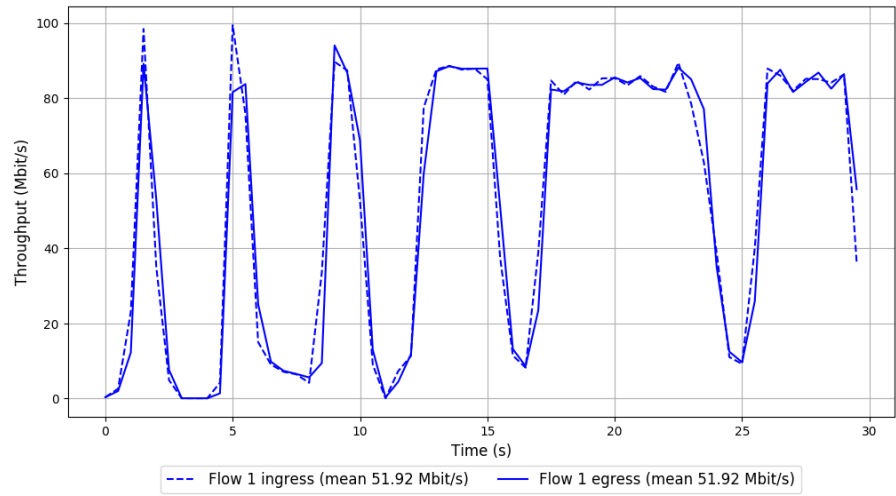
-- Flow 1:

Average throughput: 51.92 Mbit/s

95th percentile per-packet one-way delay: 114.349 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-16 01:23:35

End at: 2018-01-16 01:24:05

Below is generated by plot.py at 2018-01-16 03:52:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.74 Mbit/s

95th percentile per-packet one-way delay: 104.357 ms

Loss rate: 0.00%

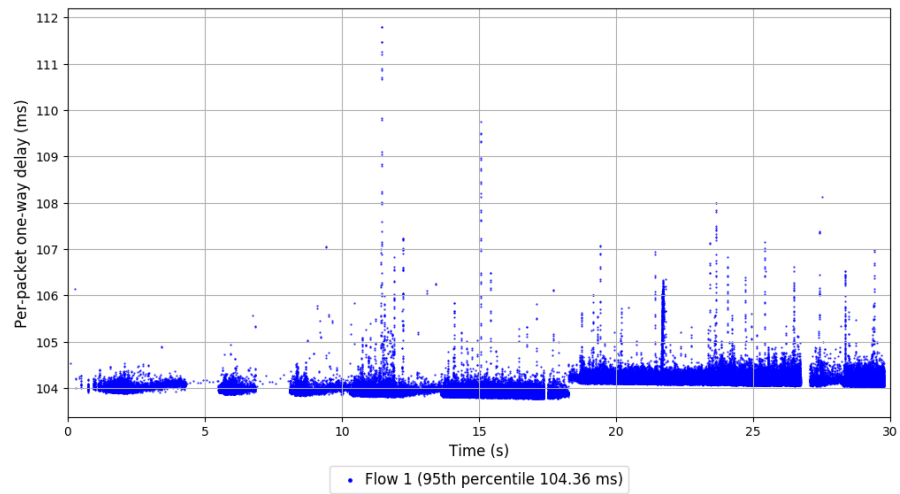
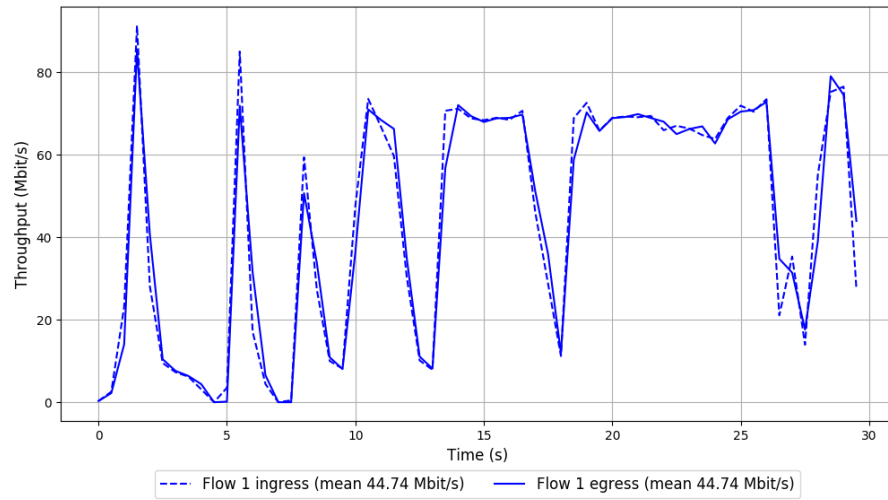
-- Flow 1:

Average throughput: 44.74 Mbit/s

95th percentile per-packet one-way delay: 104.357 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-16 01:35:28

End at: 2018-01-16 01:35:58

Below is generated by plot.py at 2018-01-16 03:52:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.12 Mbit/s

95th percentile per-packet one-way delay: 101.661 ms

Loss rate: 0.00%

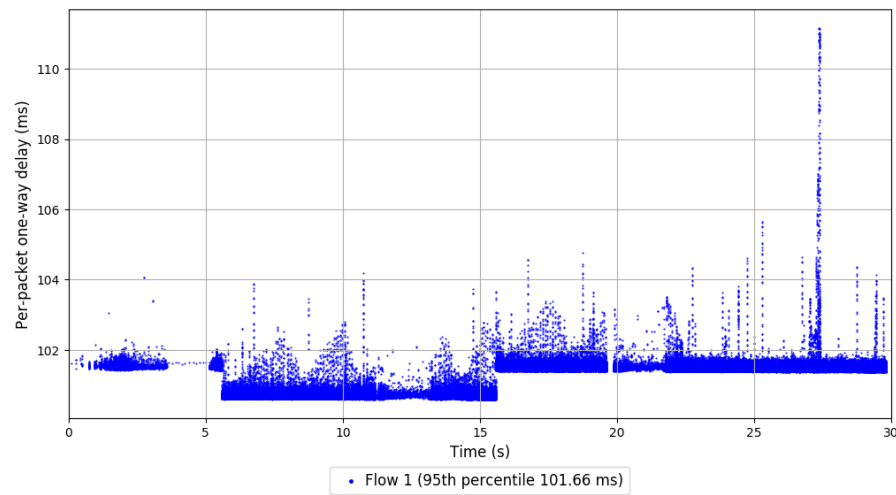
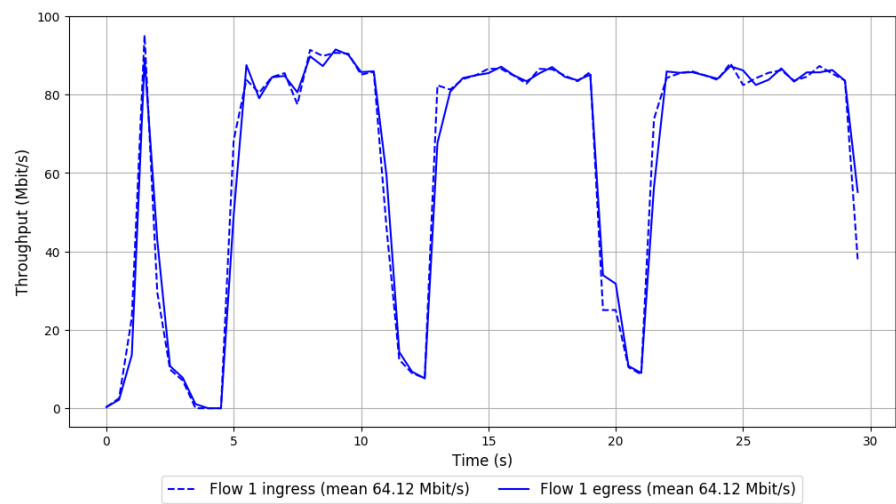
-- Flow 1:

Average throughput: 64.12 Mbit/s

95th percentile per-packet one-way delay: 101.661 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-16 01:47:41

End at: 2018-01-16 01:48:11

Below is generated by plot.py at 2018-01-16 03:52:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.22 Mbit/s

95th percentile per-packet one-way delay: 99.499 ms

Loss rate: 0.00%

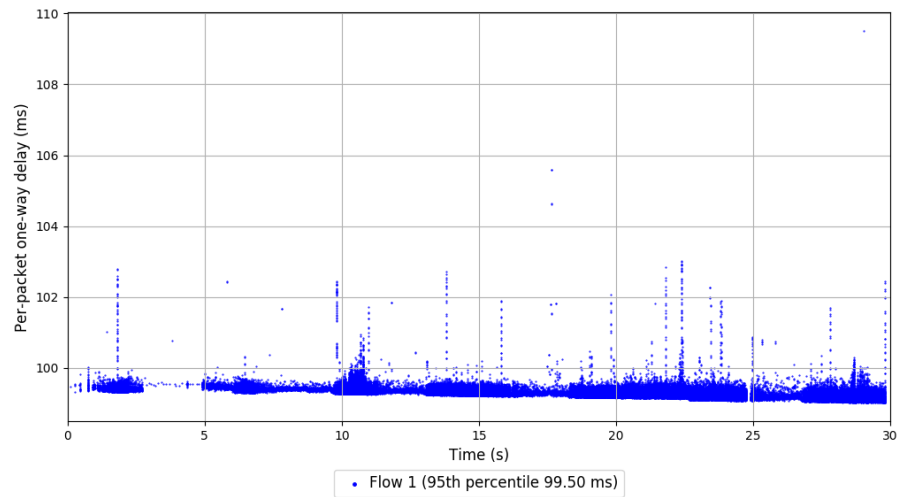
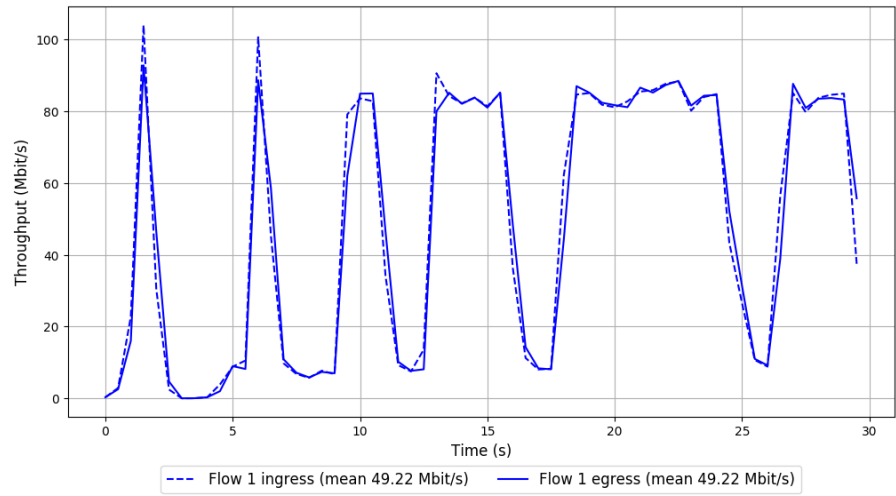
-- Flow 1:

Average throughput: 49.22 Mbit/s

95th percentile per-packet one-way delay: 99.499 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link

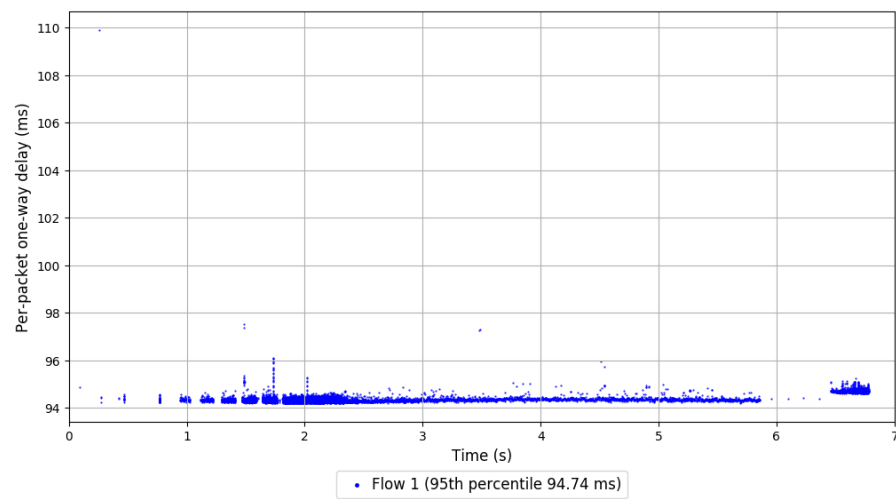
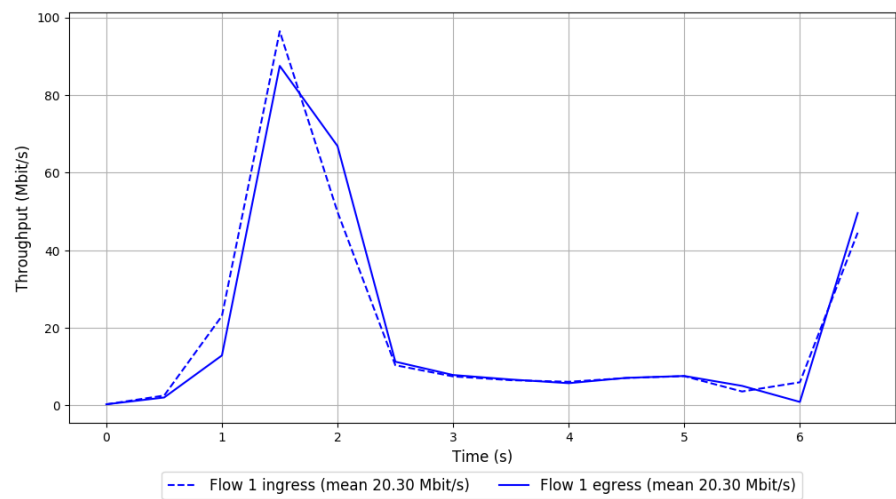


Run 7: Statistics of QUIC Cubic

Start at: 2018-01-16 01:59:44

End at: 2018-01-16 02:00:14

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-01-16 02:11:34

End at: 2018-01-16 02:12:04

Below is generated by plot.py at 2018-01-16 03:52:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.91 Mbit/s

95th percentile per-packet one-way delay: 93.629 ms

Loss rate: 0.00%

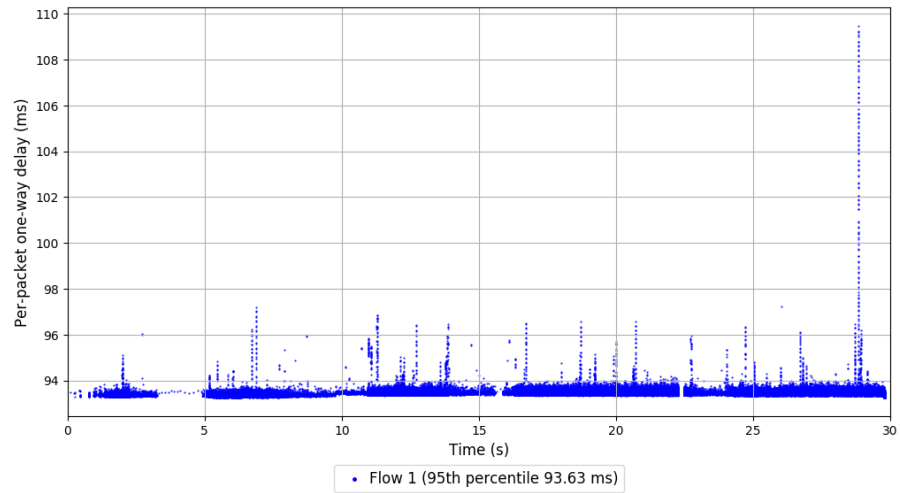
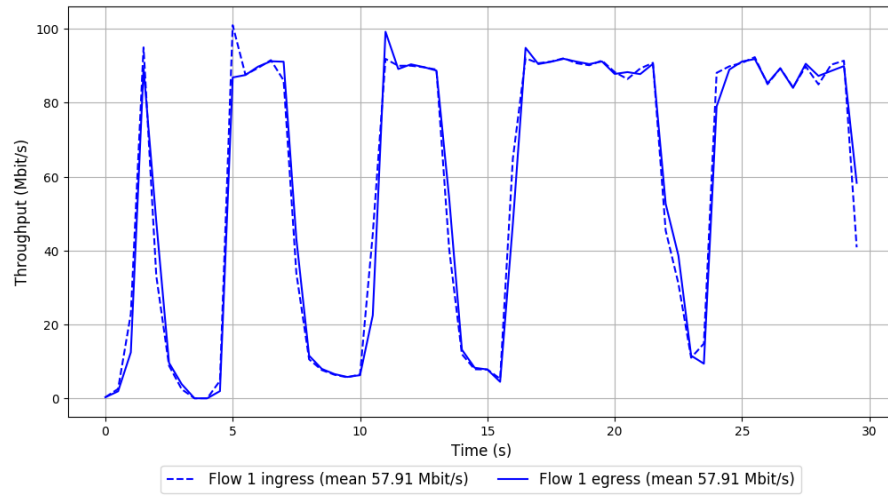
-- Flow 1:

Average throughput: 57.91 Mbit/s

95th percentile per-packet one-way delay: 93.629 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link

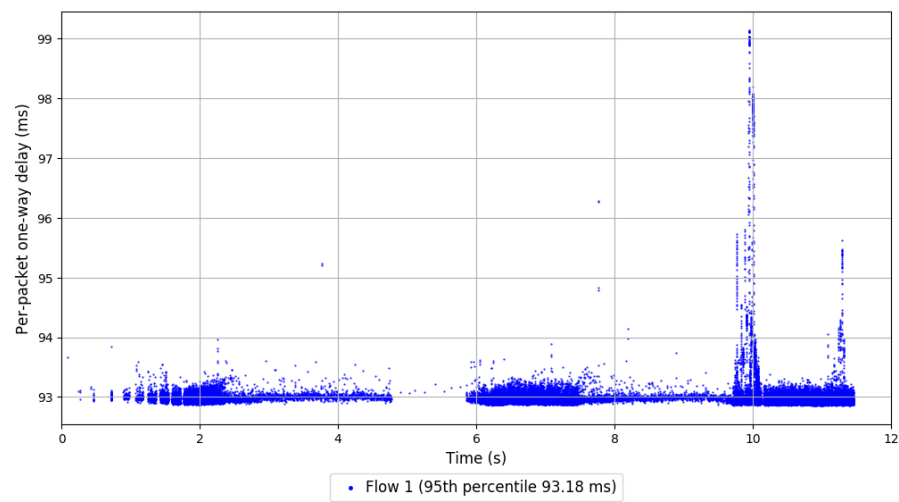
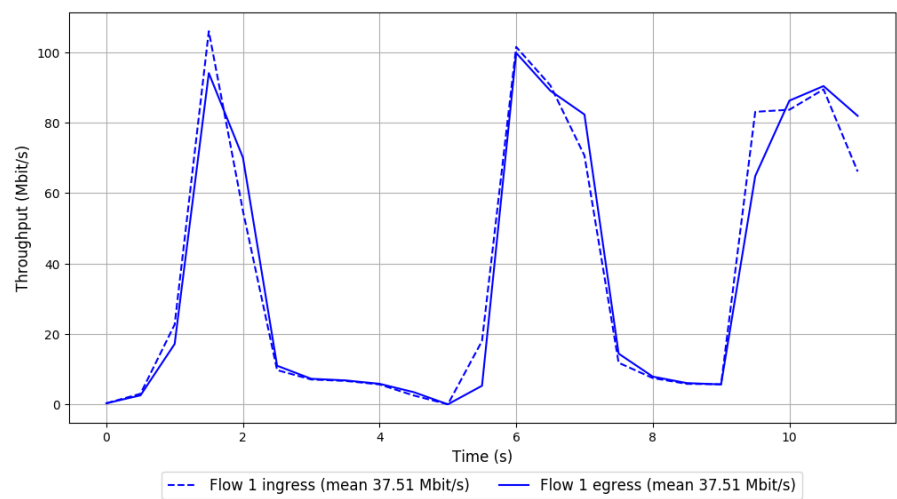


Run 9: Statistics of QUIC Cubic

Start at: 2018-01-16 02:23:47

End at: 2018-01-16 02:24:17

Run 9: Report of QUIC Cubic — Data Link

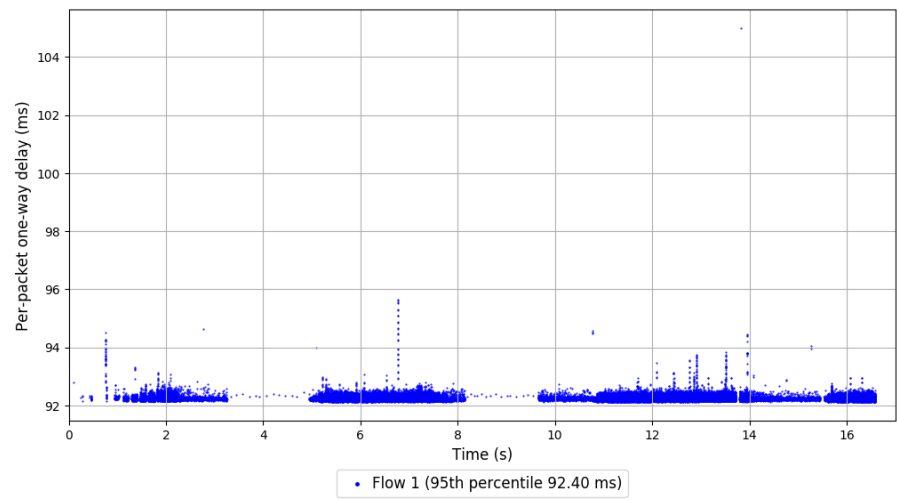
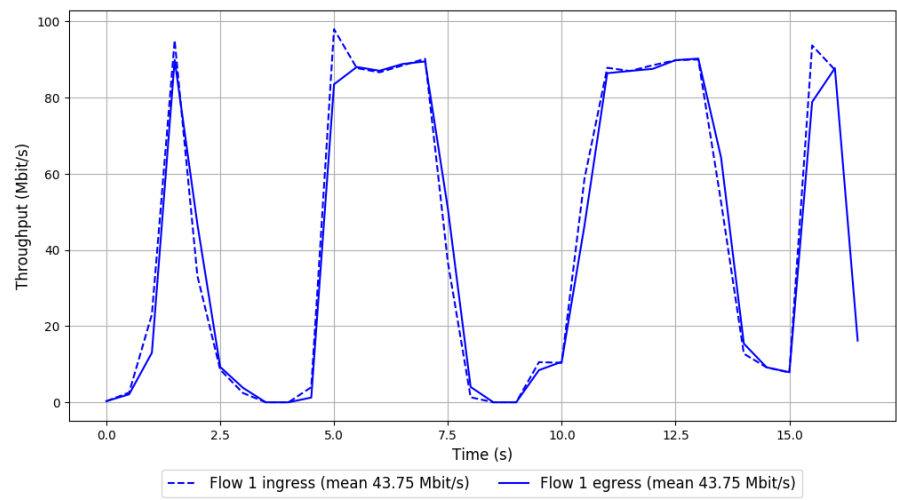


Run 10: Statistics of QUIC Cubic

Start at: 2018-01-16 02:35:57

End at: 2018-01-16 02:36:27

Run 10: Report of QUIC Cubic — Data Link

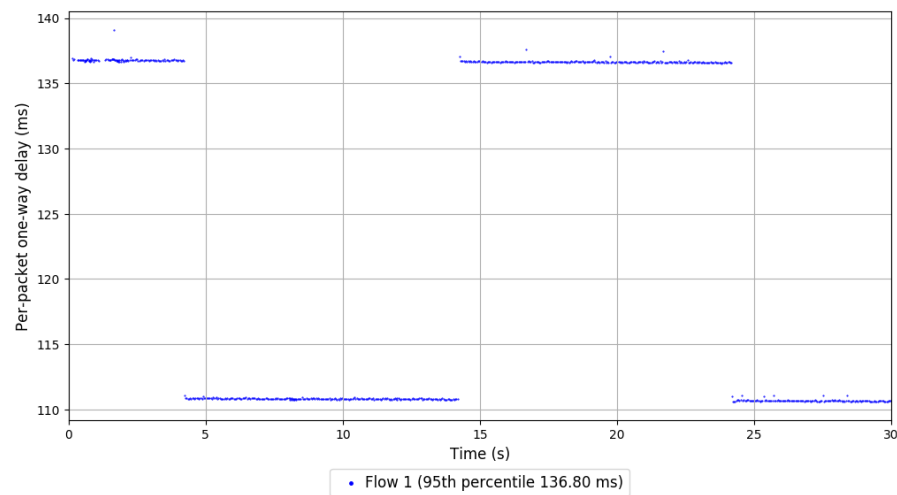
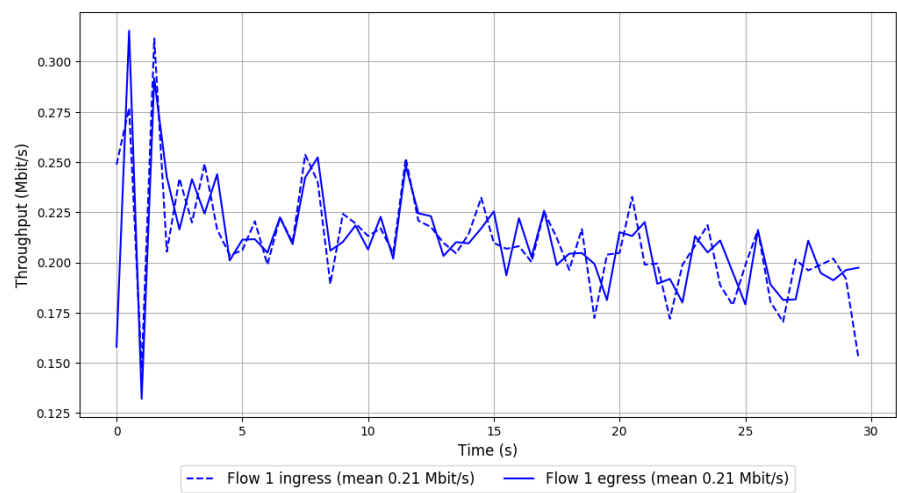


```
Run 1: Statistics of SCReAM

Start at: 2018-01-16 00:41:00
End at: 2018-01-16 00:41:30

# Below is generated by plot.py at 2018-01-16 03:52:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 136.798 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 136.798 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

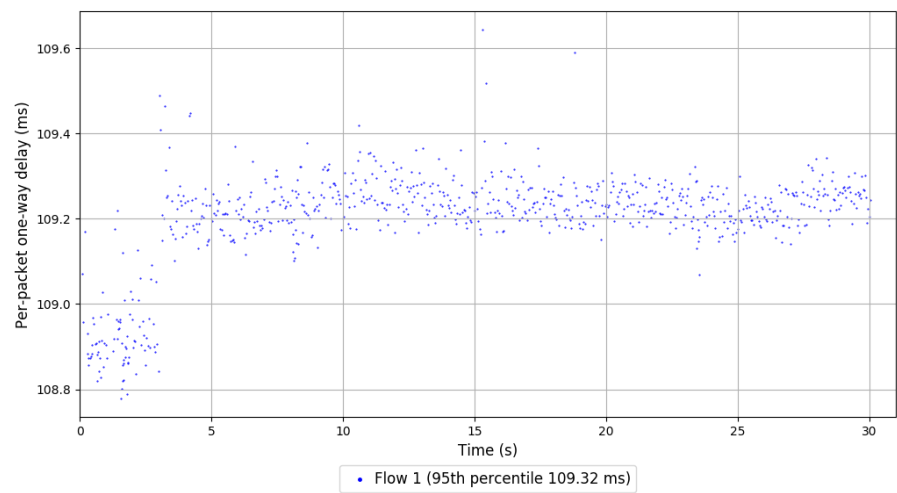
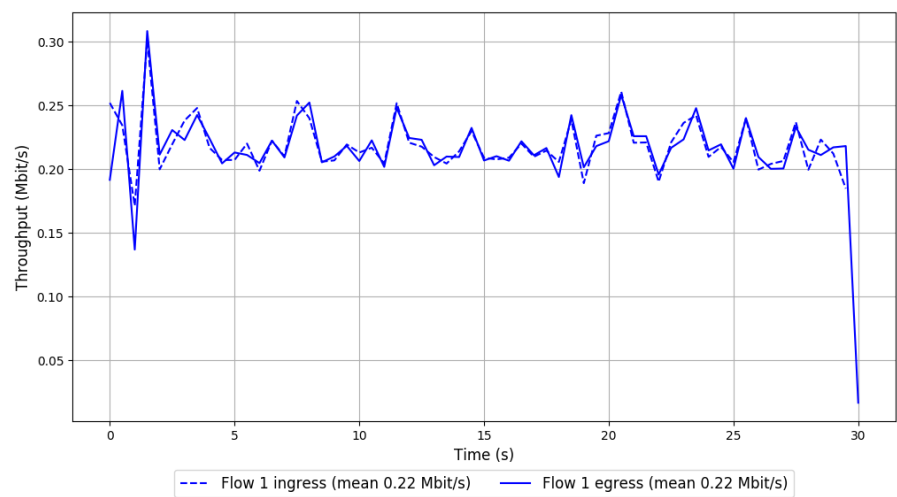


```
Run 2: Statistics of SCReAM

Start at: 2018-01-16 00:53:01
End at: 2018-01-16 00:53:31

# Below is generated by plot.py at 2018-01-16 03:52:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.318 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.318 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link

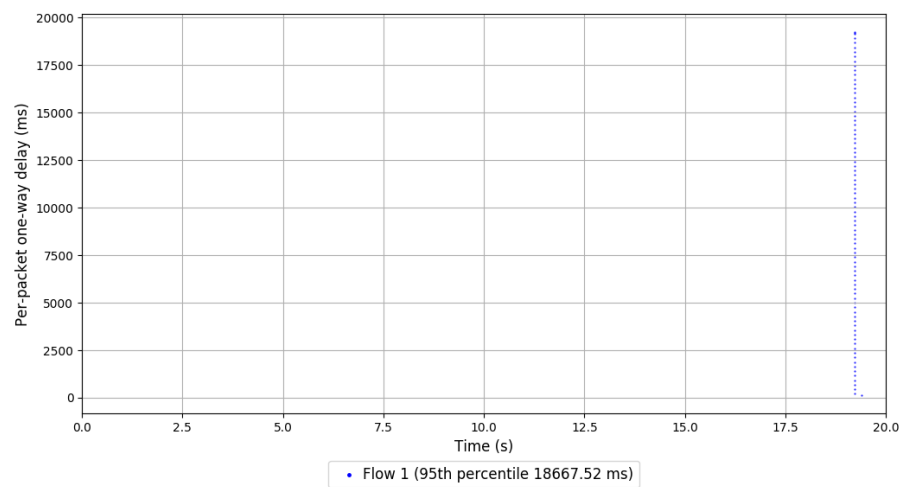
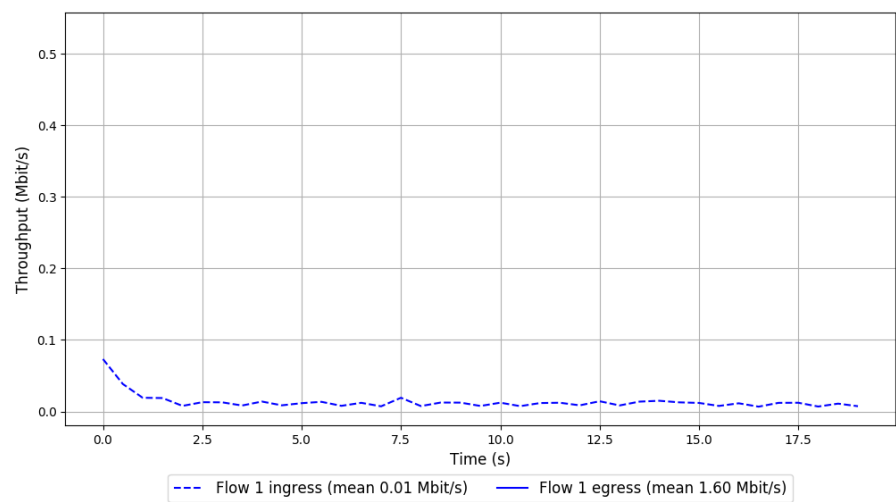


Run 3: Statistics of SReAM

Start at: 2018-01-16 01:05:11

End at: 2018-01-16 01:05:41

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-01-16 01:17:18

End at: 2018-01-16 01:17:48

Below is generated by plot.py at 2018-01-16 03:52:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 108.630 ms

Loss rate: 0.00%

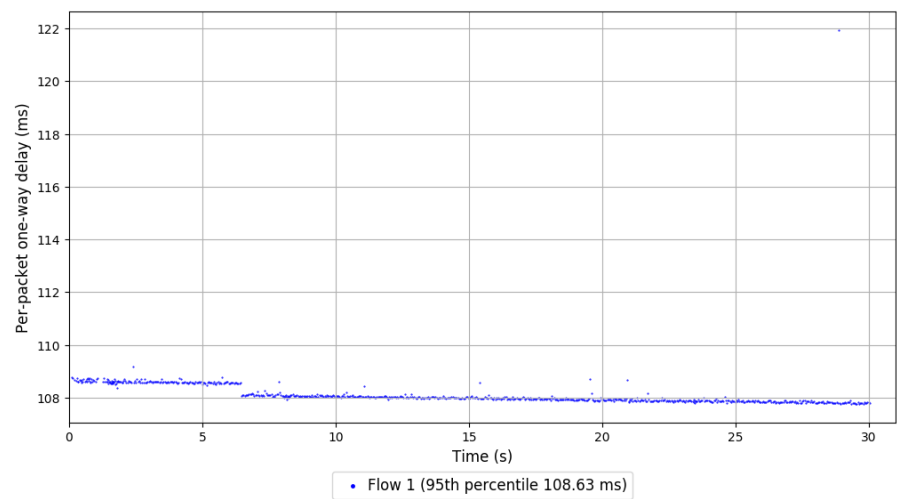
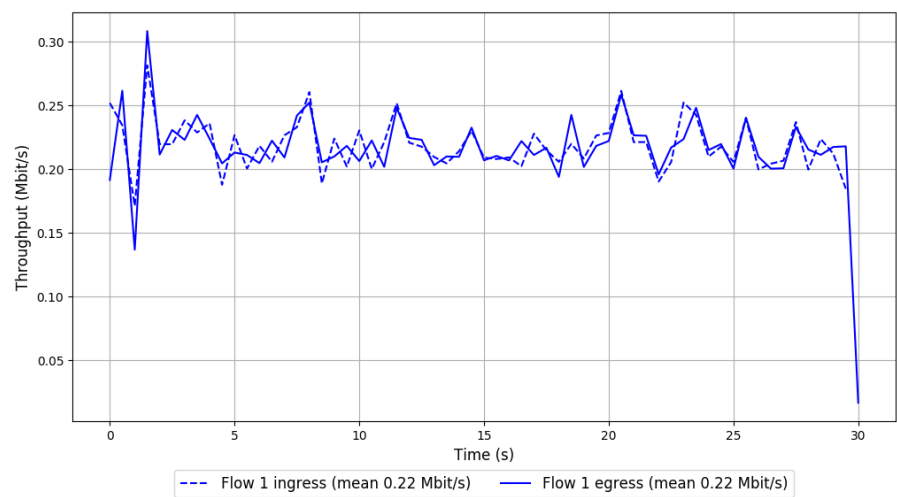
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 108.630 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

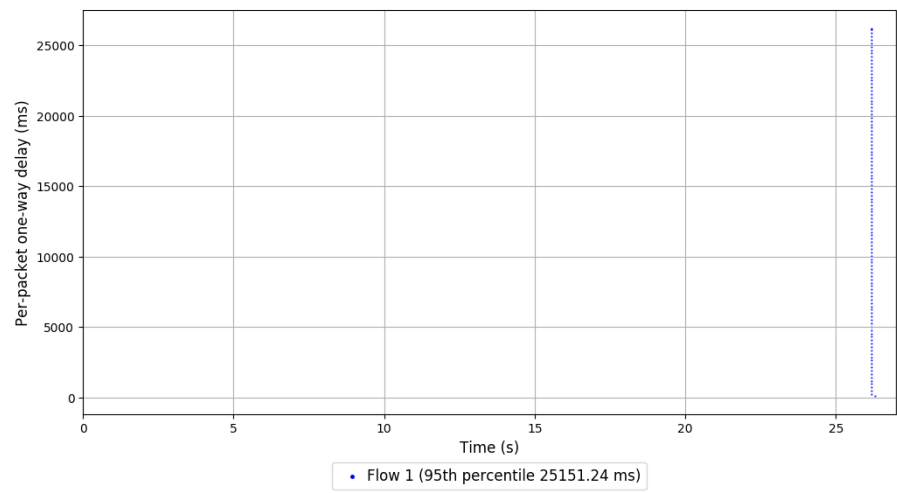
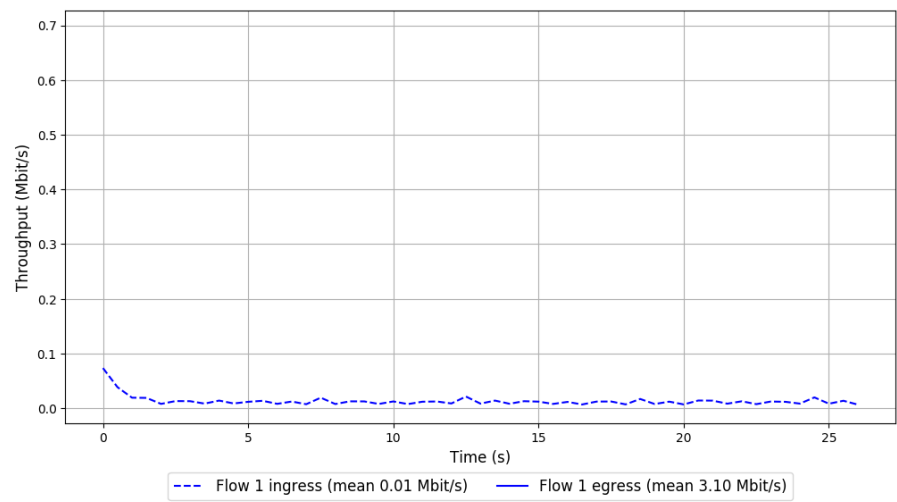


Run 5: Statistics of SReAM

Start at: 2018-01-16 01:29:12

End at: 2018-01-16 01:29:42

Run 5: Report of SReAM — Data Link

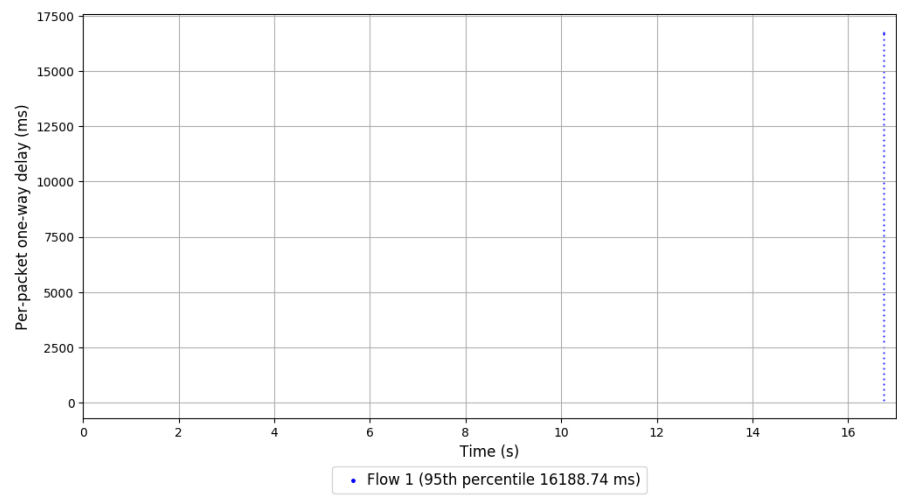
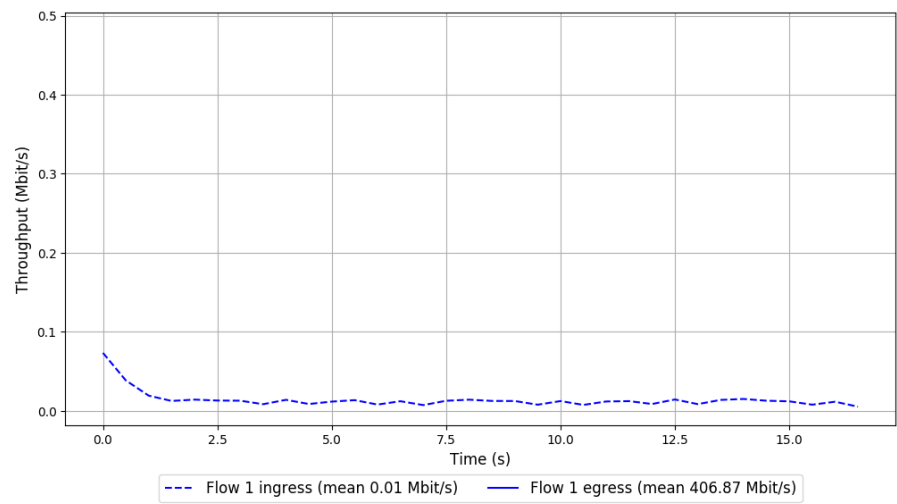


Run 6: Statistics of SReAM

Start at: 2018-01-16 01:41:18

End at: 2018-01-16 01:41:48

Run 6: Report of SReAM — Data Link

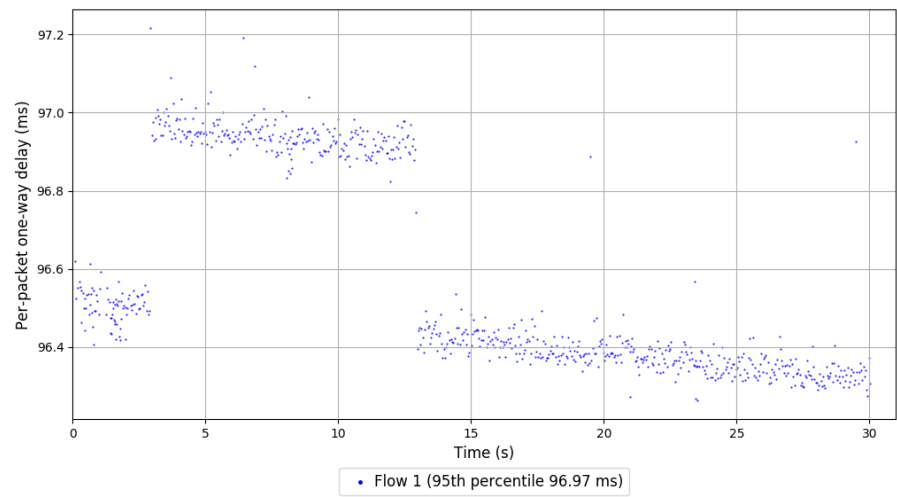
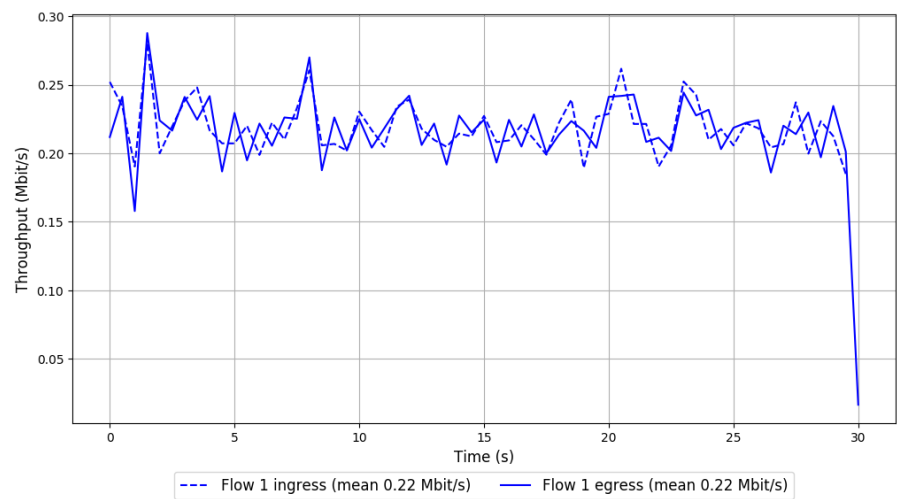


```
Run 7: Statistics of SCReAM

Start at: 2018-01-16 01:53:21
End at: 2018-01-16 01:53:51

# Below is generated by plot.py at 2018-01-16 03:52:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 96.974 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 96.974 ms
Loss rate: 0.00%
```


Run 7: Report of SReAM — Data Link

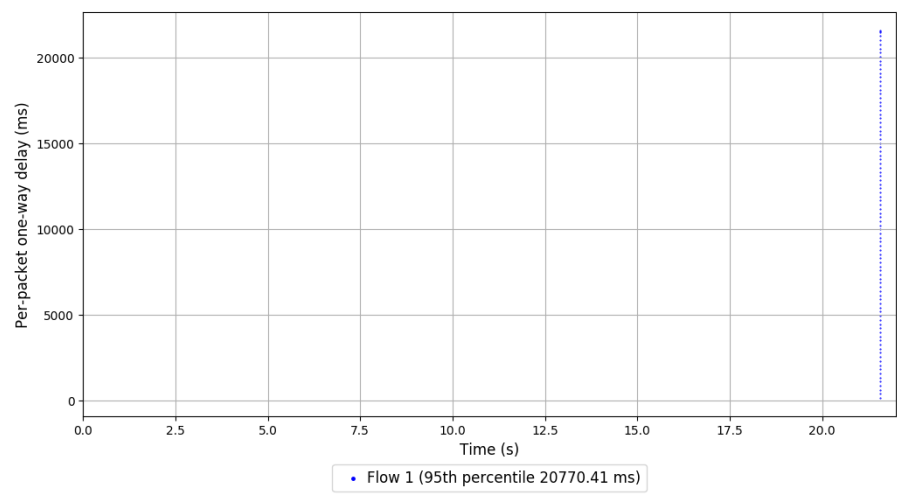
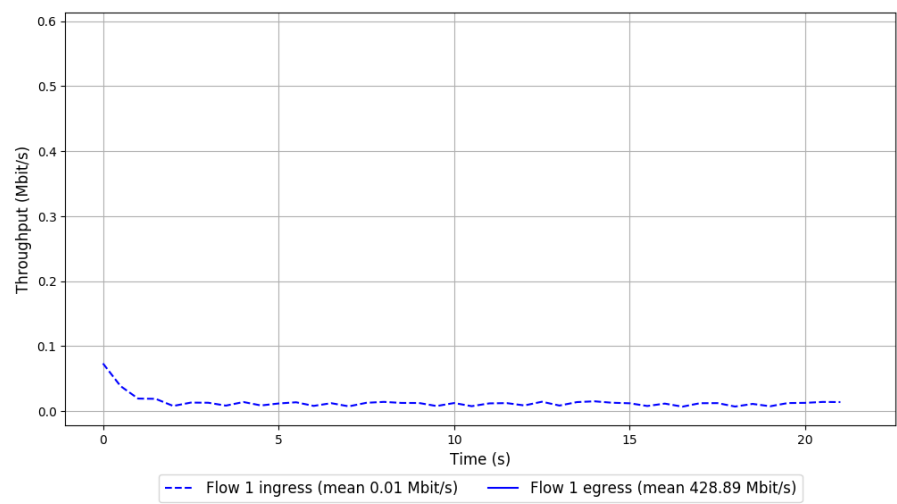


Run 8: Statistics of SReAM

Start at: 2018-01-16 02:05:24

End at: 2018-01-16 02:05:54

Run 8: Report of SReAM — Data Link

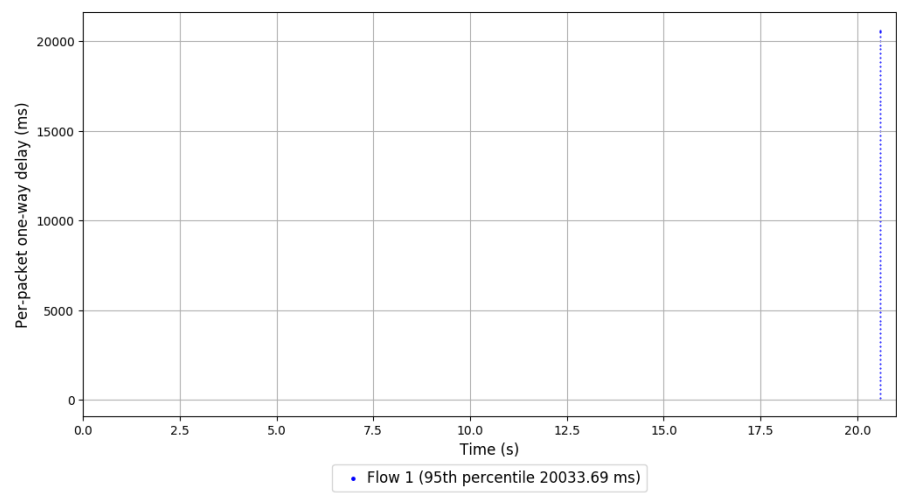
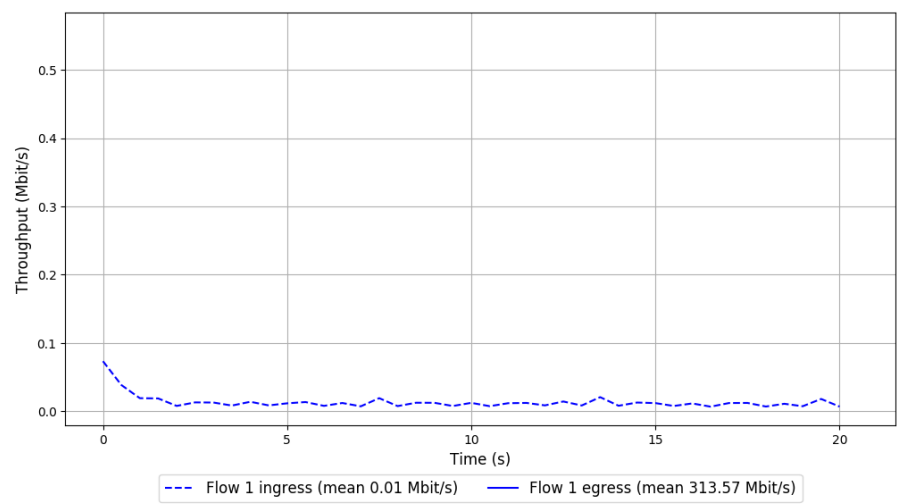


Run 9: Statistics of SReAM

Start at: 2018-01-16 02:17:17

End at: 2018-01-16 02:17:47

Run 9: Report of SReAM — Data Link

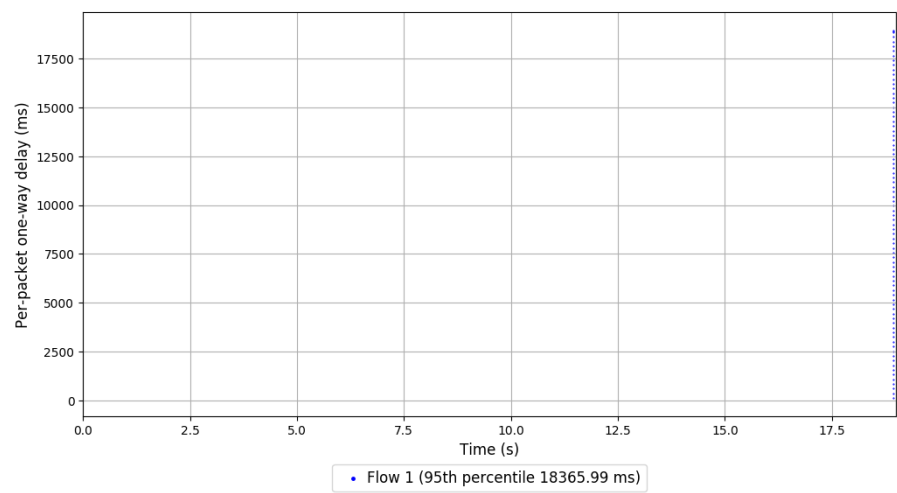
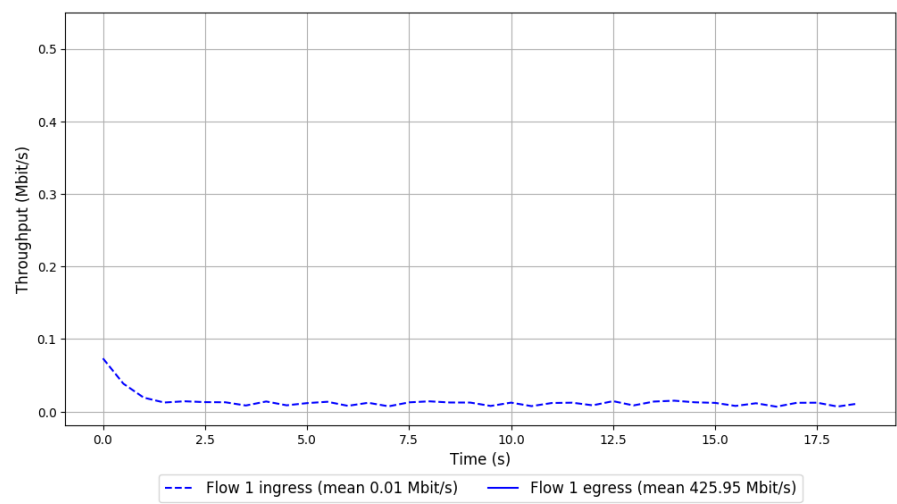


Run 10: Statistics of SCReAM

Start at: 2018-01-16 02:29:26

End at: 2018-01-16 02:29:56

Run 10: Report of SReAM — Data Link

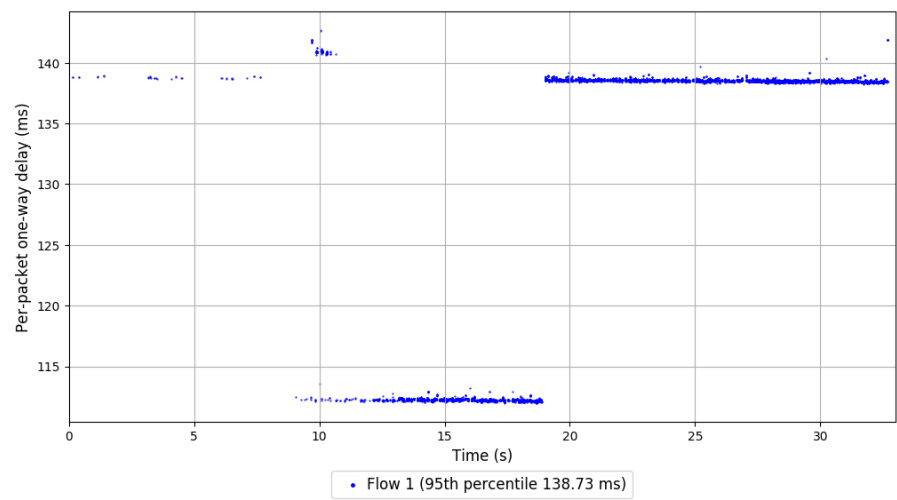
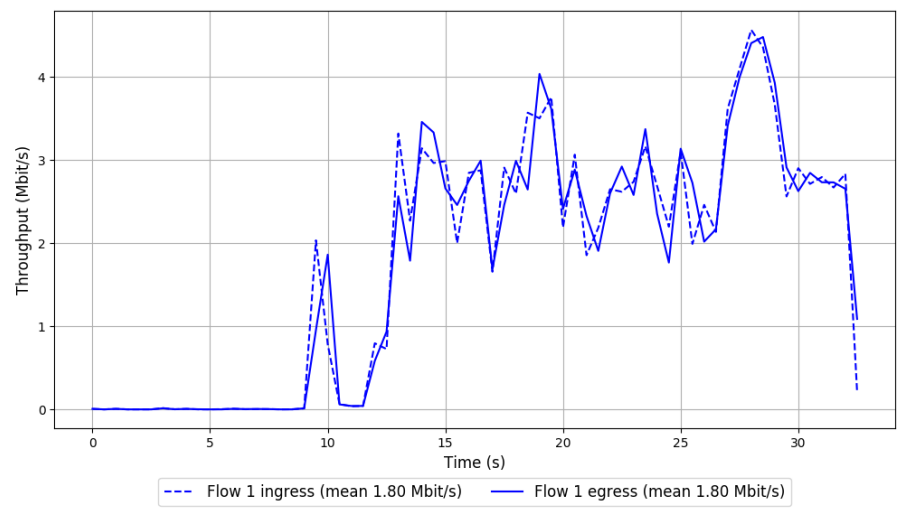


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-16 00:37:58
End at: 2018-01-16 00:38:28

# Below is generated by plot.py at 2018-01-16 03:52:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.80 Mbit/s
95th percentile per-packet one-way delay: 138.733 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.80 Mbit/s
95th percentile per-packet one-way delay: 138.733 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link

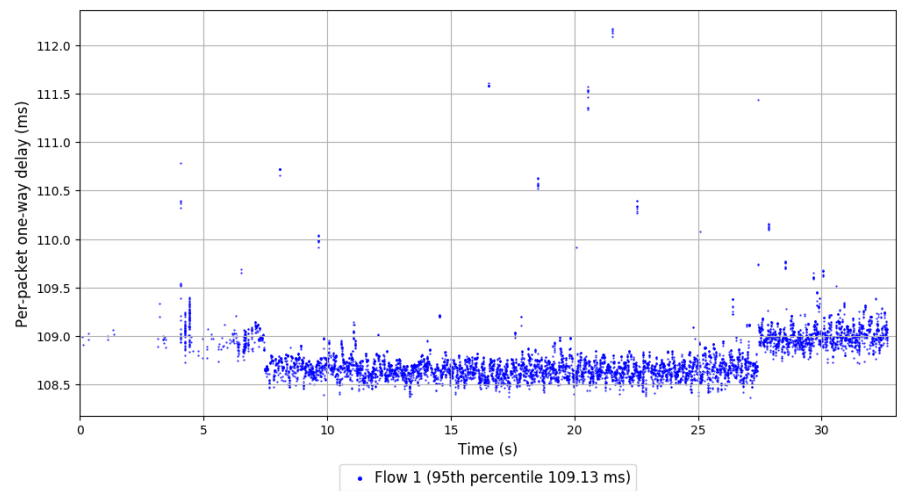
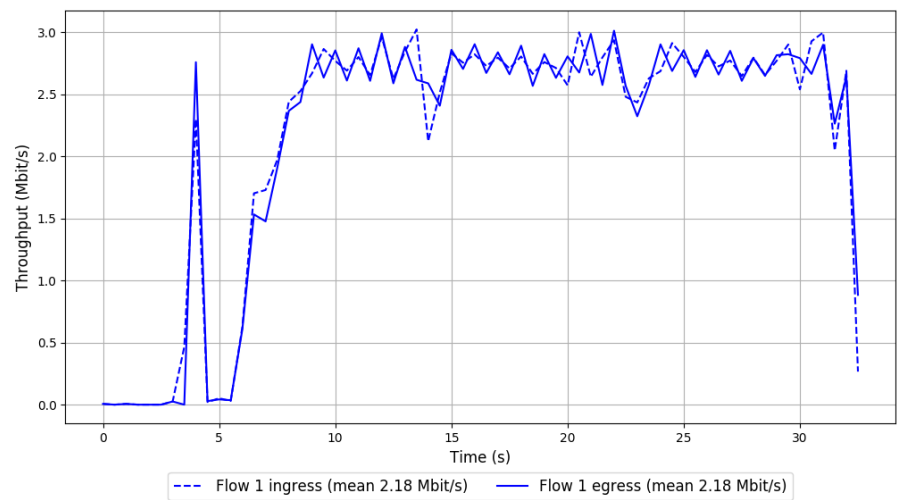


```
Run 2: Statistics of WebRTC media

Start at: 2018-01-16 00:49:39
End at: 2018-01-16 00:50:09

# Below is generated by plot.py at 2018-01-16 03:52:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.18 Mbit/s
95th percentile per-packet one-way delay: 109.126 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.18 Mbit/s
95th percentile per-packet one-way delay: 109.126 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-16 01:01:47

End at: 2018-01-16 01:02:17

Below is generated by plot.py at 2018-01-16 03:52:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 112.195 ms

Loss rate: 0.01%

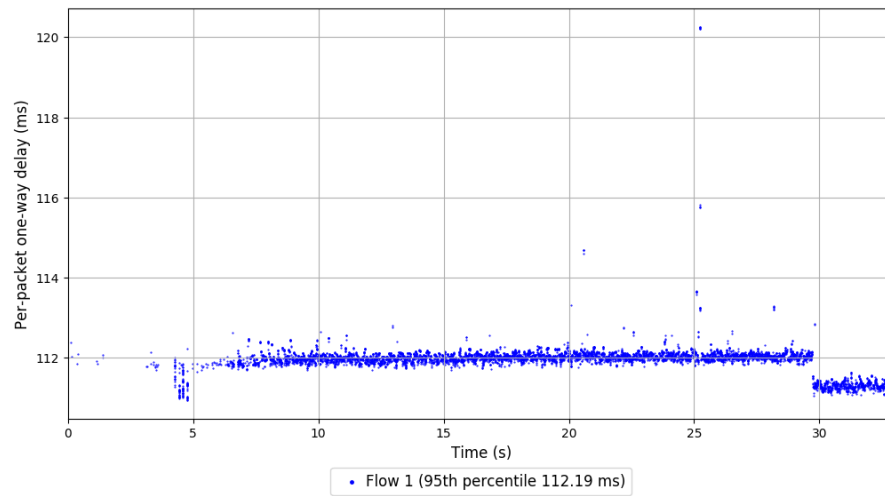
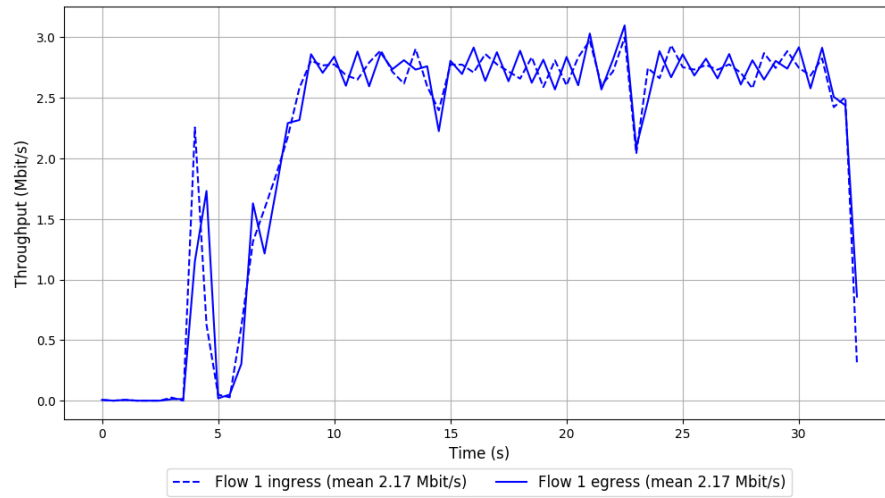
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 112.195 ms

Loss rate: 0.01%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-16 01:13:57

End at: 2018-01-16 01:14:27

Below is generated by plot.py at 2018-01-16 03:52:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 111.849 ms

Loss rate: 0.00%

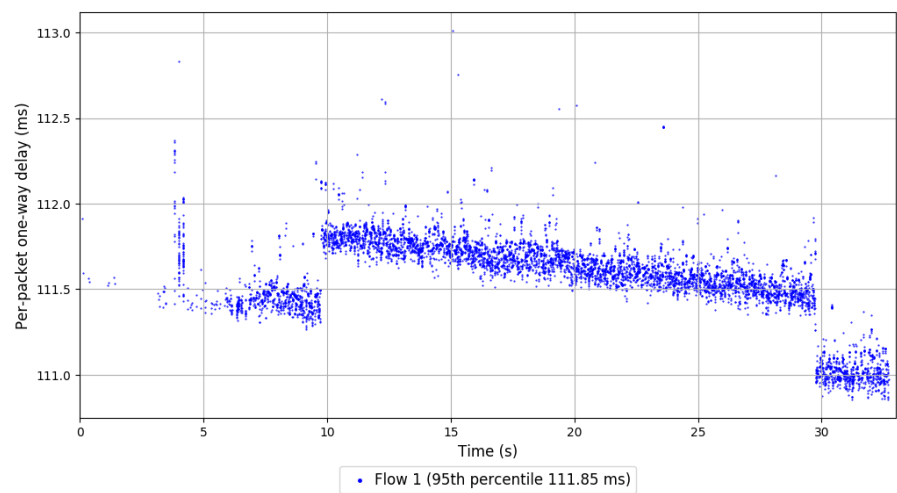
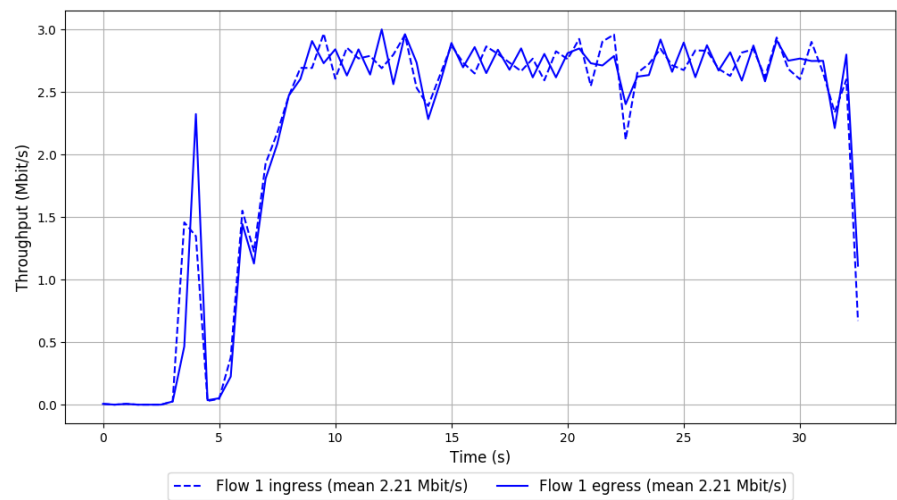
-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 111.849 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-16 01:25:54

End at: 2018-01-16 01:26:24

Below is generated by plot.py at 2018-01-16 03:52:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 103.295 ms

Loss rate: 0.00%

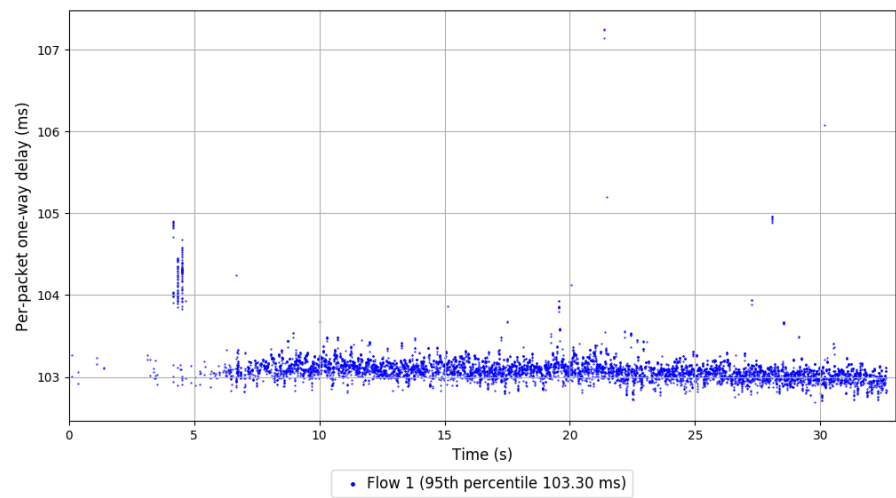
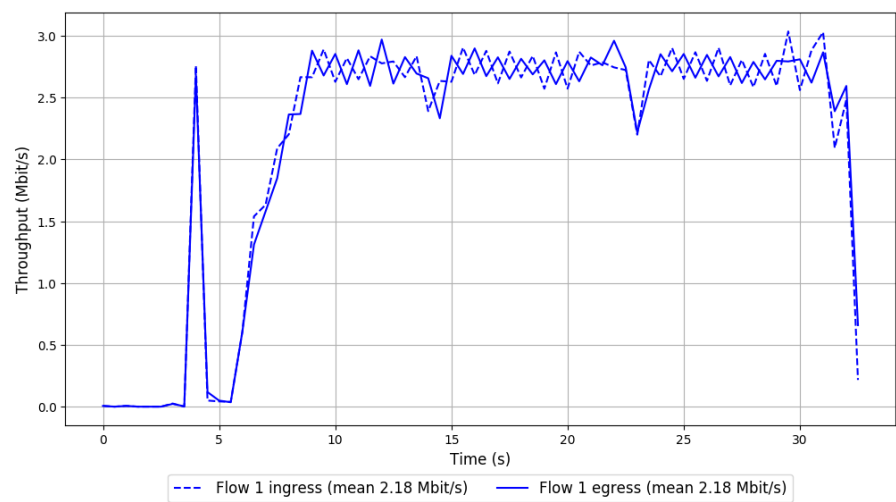
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 103.295 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-16 01:37:51

End at: 2018-01-16 01:38:21

Below is generated by plot.py at 2018-01-16 03:52:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 101.180 ms

Loss rate: 0.00%

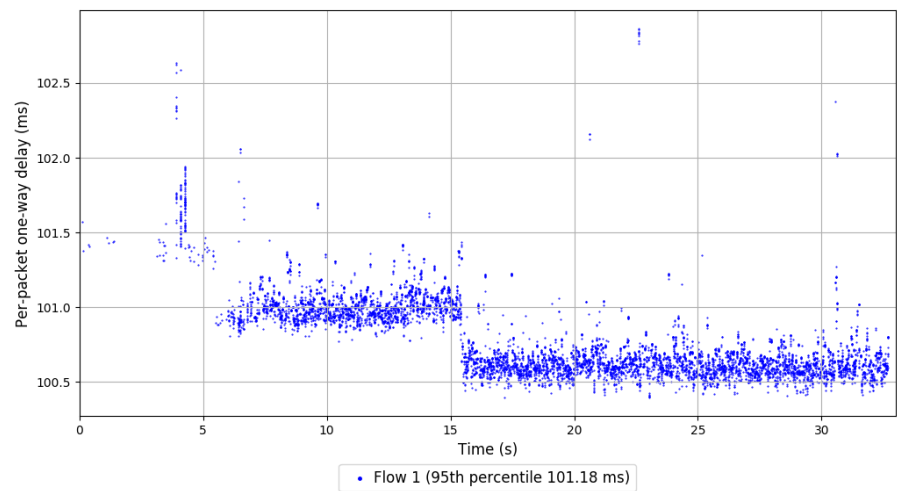
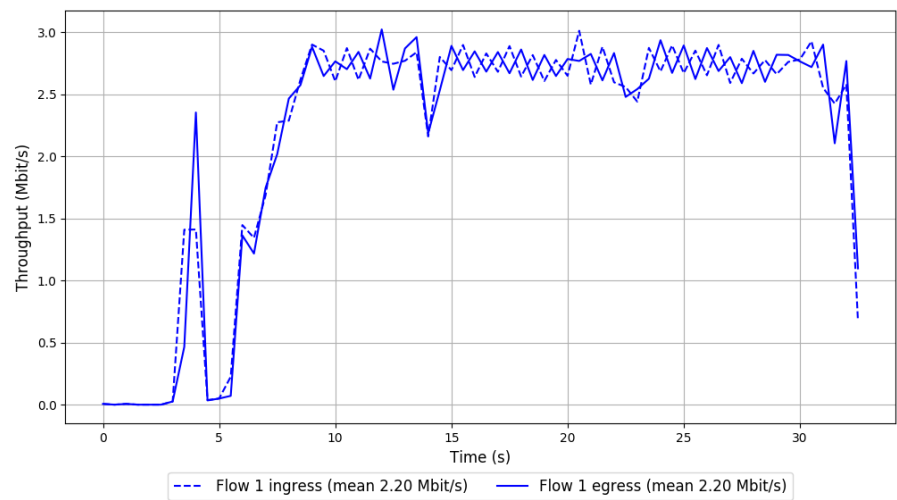
-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 101.180 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

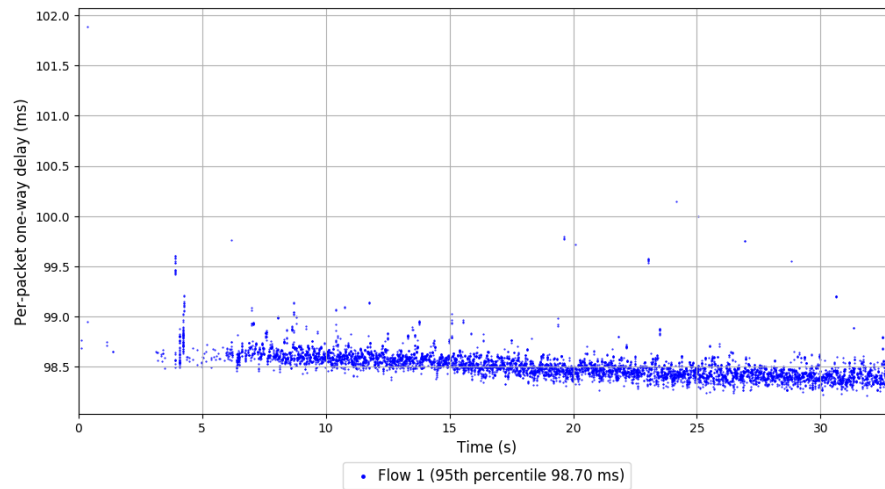
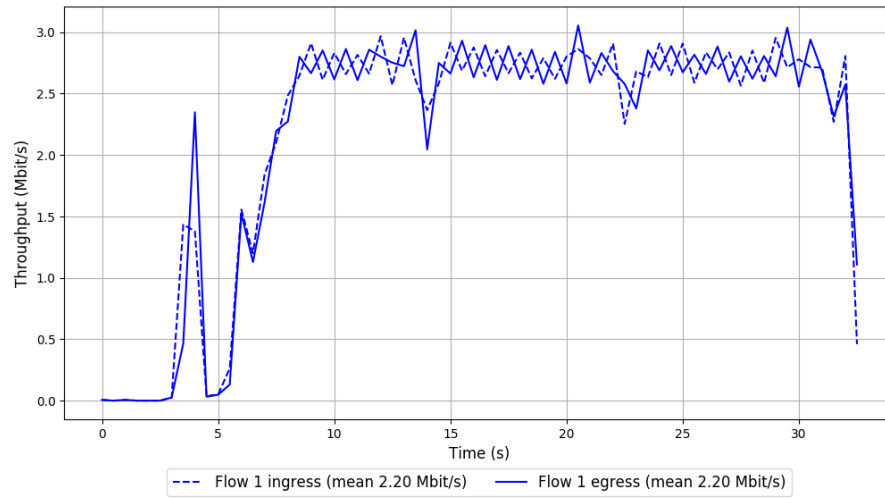


```
Run 7: Statistics of WebRTC media

Start at: 2018-01-16 01:50:01
End at: 2018-01-16 01:50:31

# Below is generated by plot.py at 2018-01-16 03:52:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 98.701 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 98.701 ms
Loss rate: 0.00%
```

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

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

End at: 2018-01-16 02:02:32

Below is generated by plot.py at 2018-01-16 03:52:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 94.715 ms

Loss rate: 0.04%

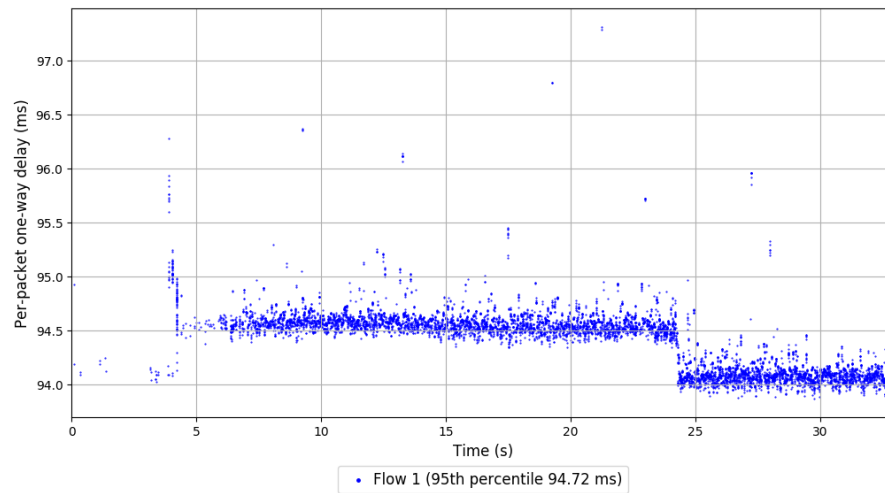
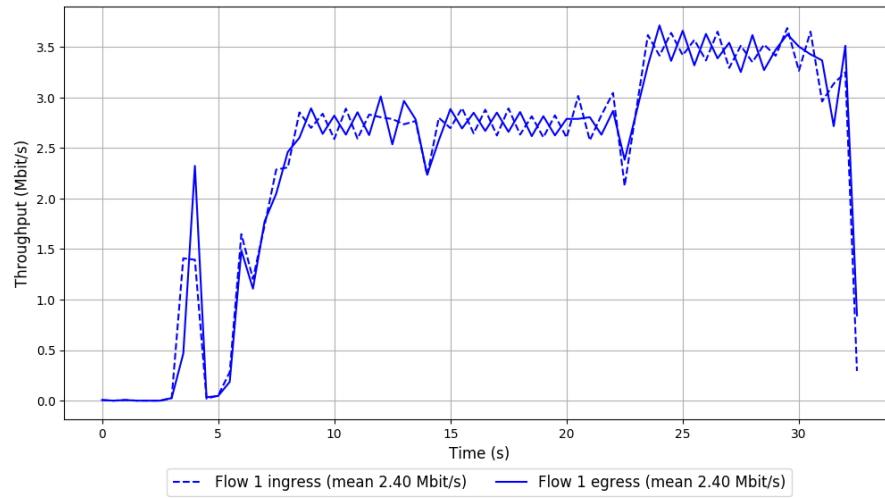
-- Flow 1:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 94.715 ms

Loss rate: 0.04%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-16 02:13:56

End at: 2018-01-16 02:14:26

Below is generated by plot.py at 2018-01-16 03:52:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 93.523 ms

Loss rate: 0.00%

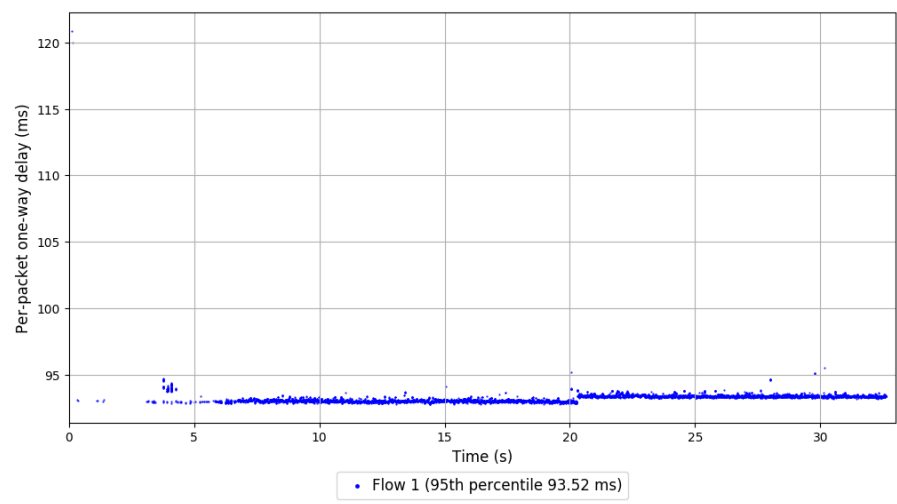
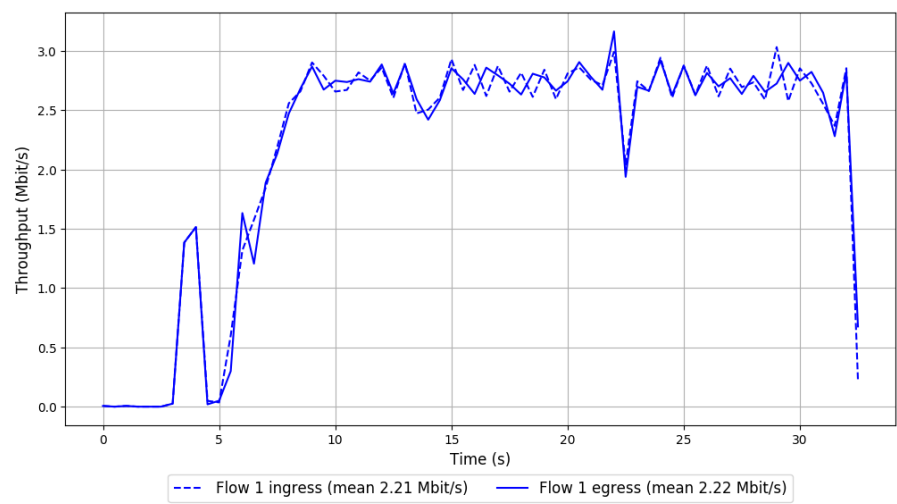
-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 93.523 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-16 02:26:04

End at: 2018-01-16 02:26:34

Below is generated by plot.py at 2018-01-16 03:52:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 118.734 ms

Loss rate: 0.15%

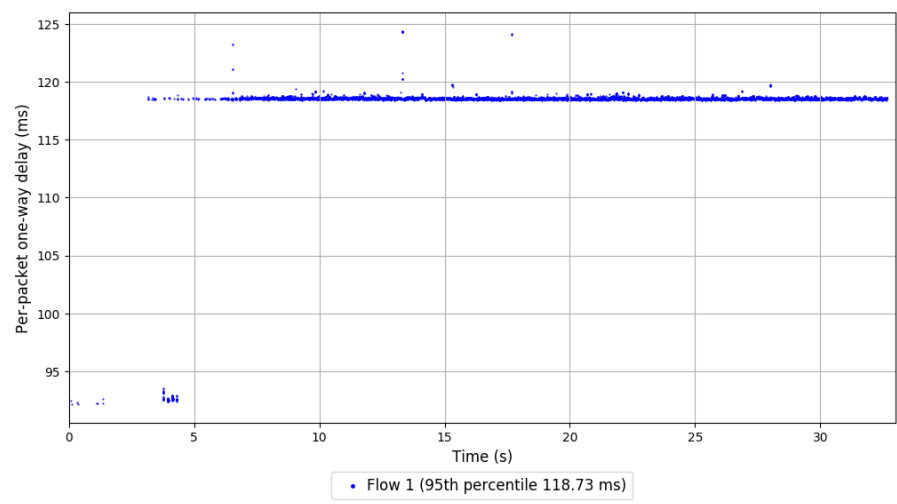
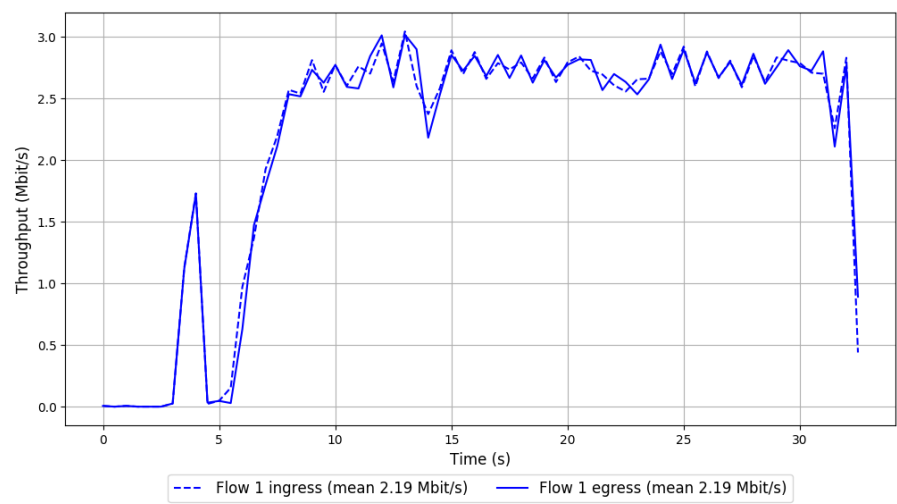
-- Flow 1:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 118.734 ms

Loss rate: 0.15%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-01-16 00:44:44

End at: 2018-01-16 00:45:14

Below is generated by plot.py at 2018-01-16 03:52:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 138.811 ms

Loss rate: 0.00%

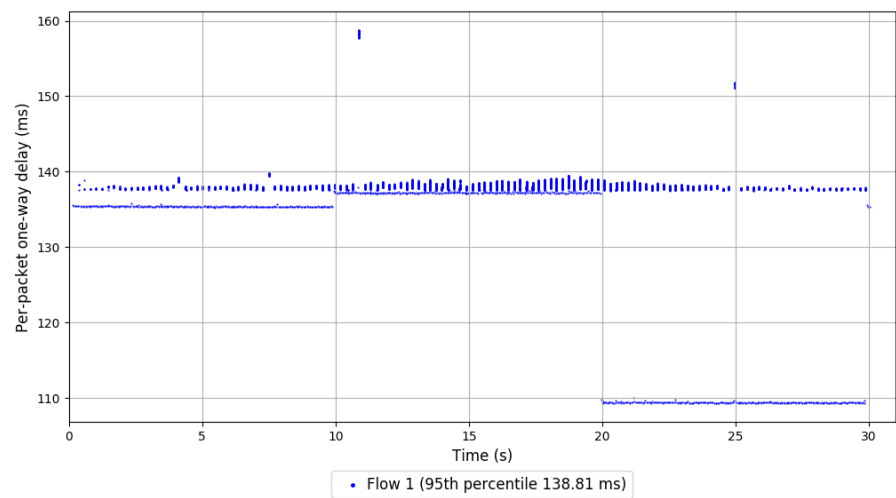
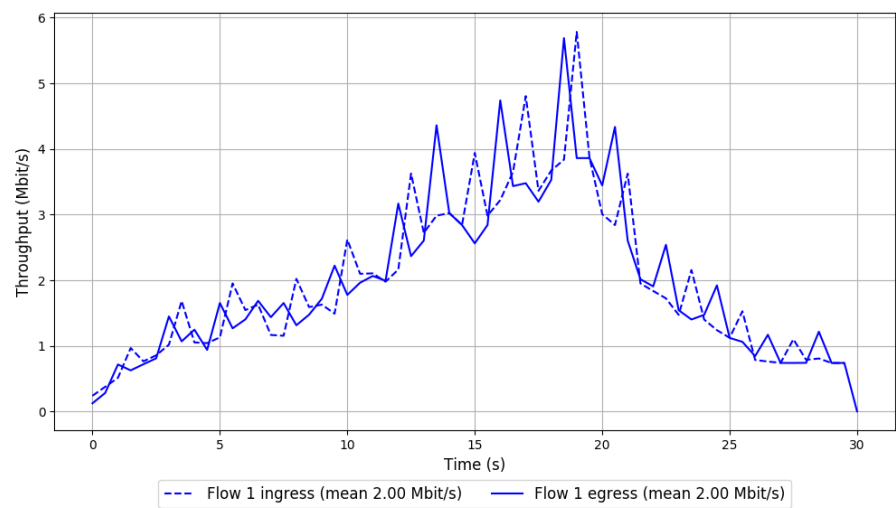
-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 138.811 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-16 00:56:54

End at: 2018-01-16 00:57:24

Below is generated by plot.py at 2018-01-16 03:52:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.10 Mbit/s

95th percentile per-packet one-way delay: 111.340 ms

Loss rate: 0.05%

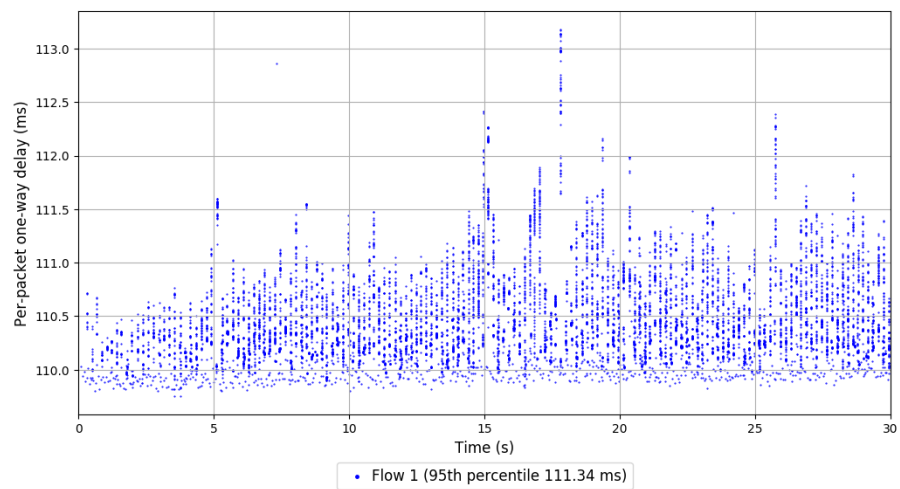
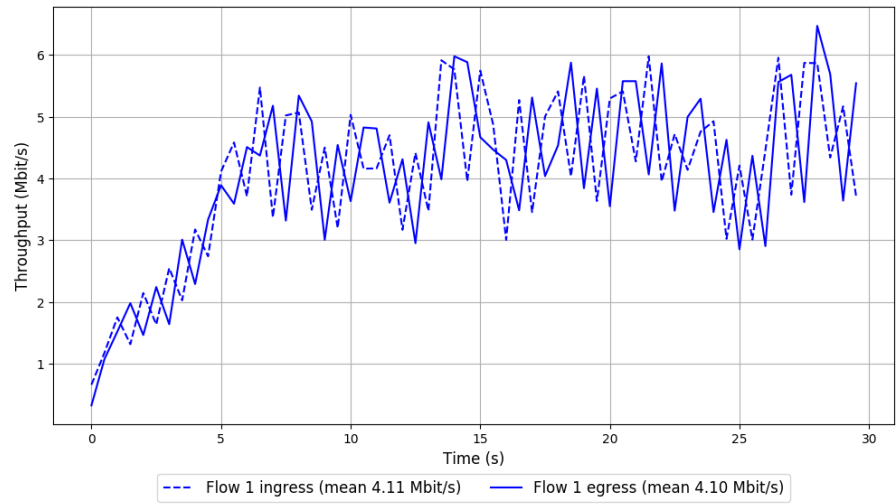
-- Flow 1:

Average throughput: 4.10 Mbit/s

95th percentile per-packet one-way delay: 111.340 ms

Loss rate: 0.05%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-16 01:09:00

End at: 2018-01-16 01:09:30

Below is generated by plot.py at 2018-01-16 03:52:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.31 Mbit/s

95th percentile per-packet one-way delay: 115.786 ms

Loss rate: 0.00%

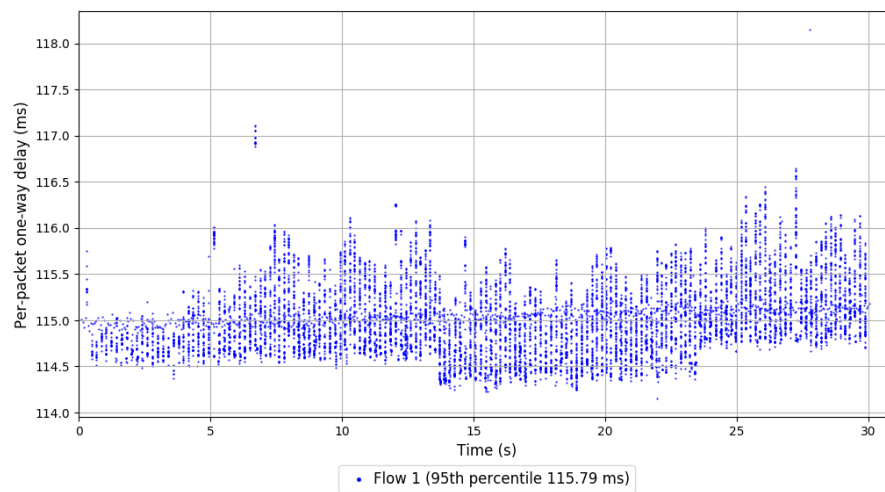
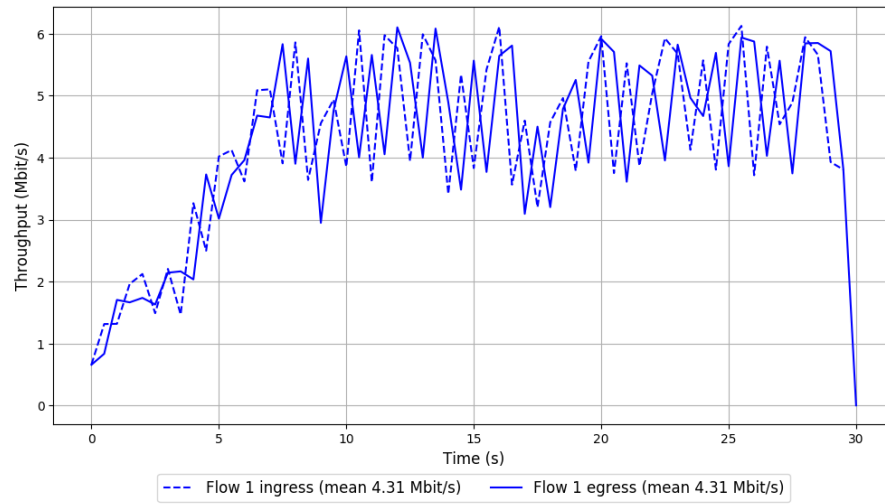
-- Flow 1:

Average throughput: 4.31 Mbit/s

95th percentile per-packet one-way delay: 115.786 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-16 01:21:02

End at: 2018-01-16 01:21:32

Below is generated by plot.py at 2018-01-16 03:52:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.73 Mbit/s

95th percentile per-packet one-way delay: 107.311 ms

Loss rate: 0.74%

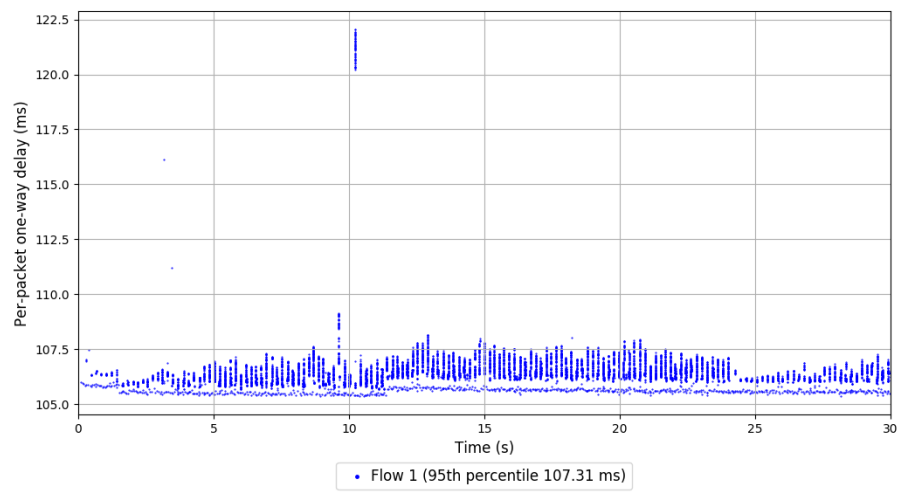
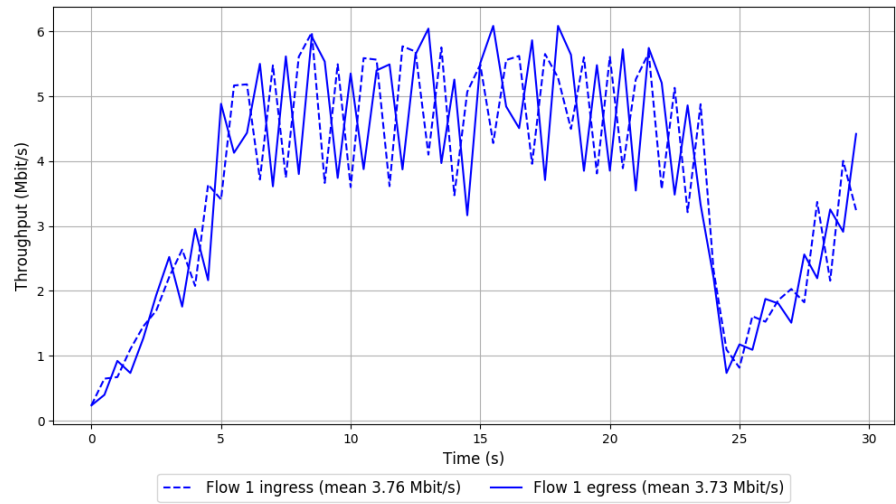
-- Flow 1:

Average throughput: 3.73 Mbit/s

95th percentile per-packet one-way delay: 107.311 ms

Loss rate: 0.74%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-16 01:32:56

End at: 2018-01-16 01:33:26

Below is generated by plot.py at 2018-01-16 03:52:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.48 Mbit/s

95th percentile per-packet one-way delay: 103.116 ms

Loss rate: 0.73%

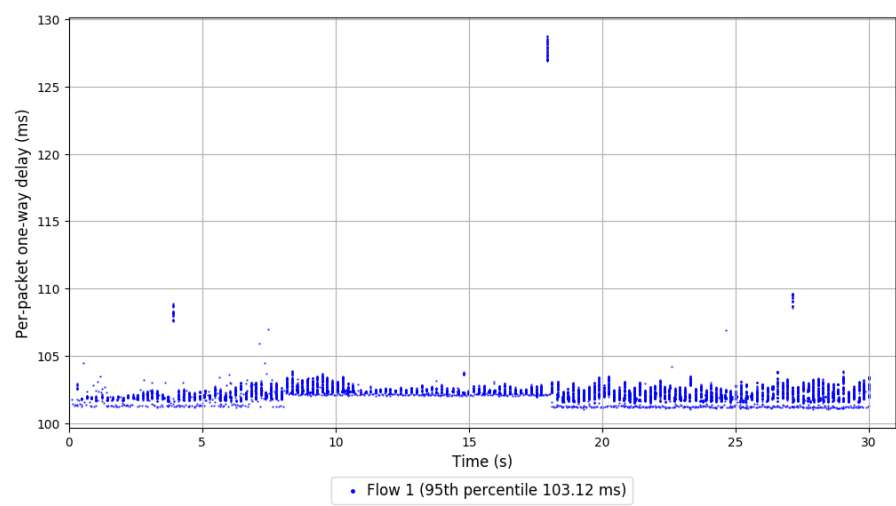
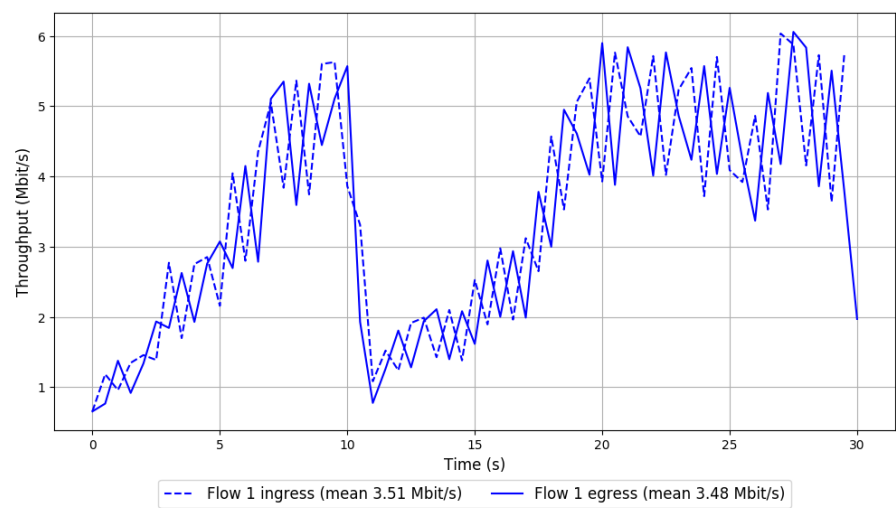
-- Flow 1:

Average throughput: 3.48 Mbit/s

95th percentile per-packet one-way delay: 103.116 ms

Loss rate: 0.73%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-16 01:45:06

End at: 2018-01-16 01:45:36

Below is generated by plot.py at 2018-01-16 03:52:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.15 Mbit/s

95th percentile per-packet one-way delay: 102.630 ms

Loss rate: 0.00%

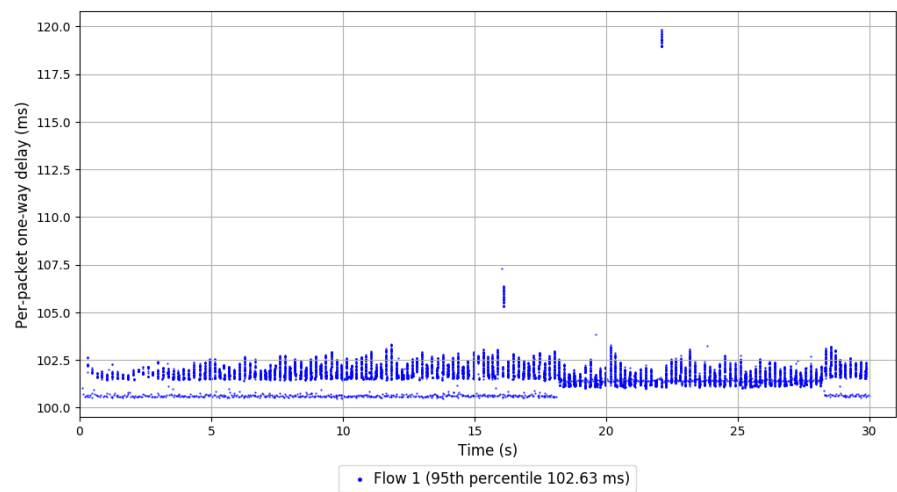
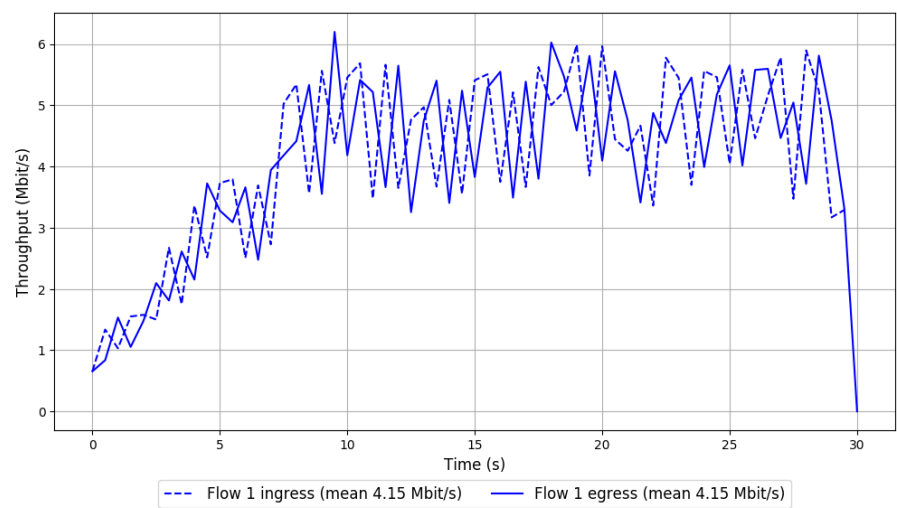
-- Flow 1:

Average throughput: 4.15 Mbit/s

95th percentile per-packet one-way delay: 102.630 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-16 01:57:10

End at: 2018-01-16 01:57:40

Below is generated by plot.py at 2018-01-16 03:52:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.40 Mbit/s

95th percentile per-packet one-way delay: 96.995 ms

Loss rate: 0.00%

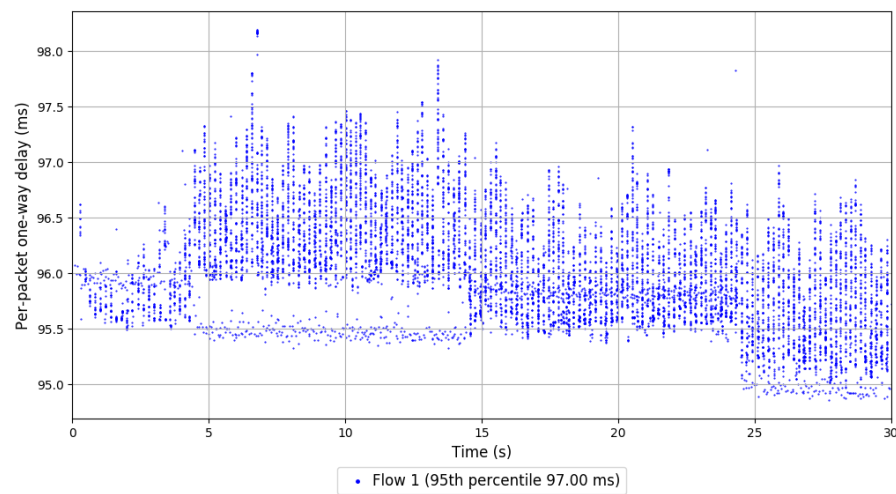
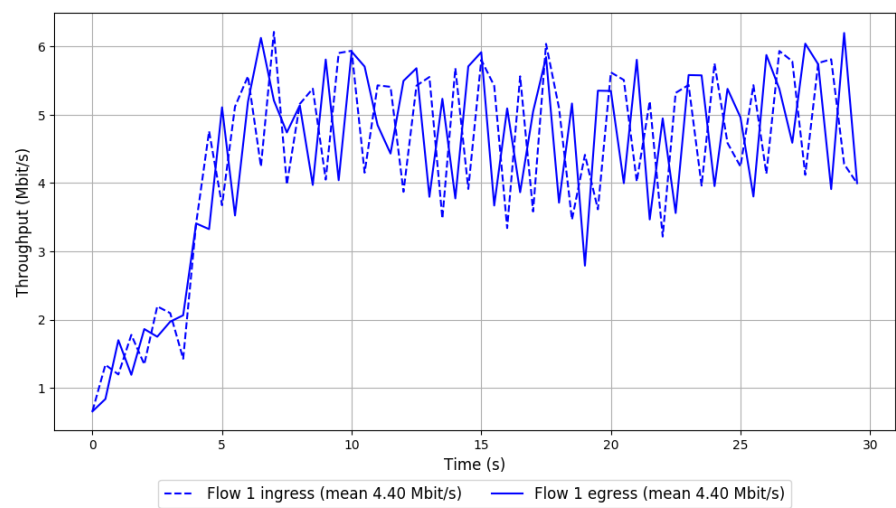
-- Flow 1:

Average throughput: 4.40 Mbit/s

95th percentile per-packet one-way delay: 96.995 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-16 02:09:08

End at: 2018-01-16 02:09:38

Below is generated by plot.py at 2018-01-16 03:52:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.90 Mbit/s

95th percentile per-packet one-way delay: 95.386 ms

Loss rate: 0.00%

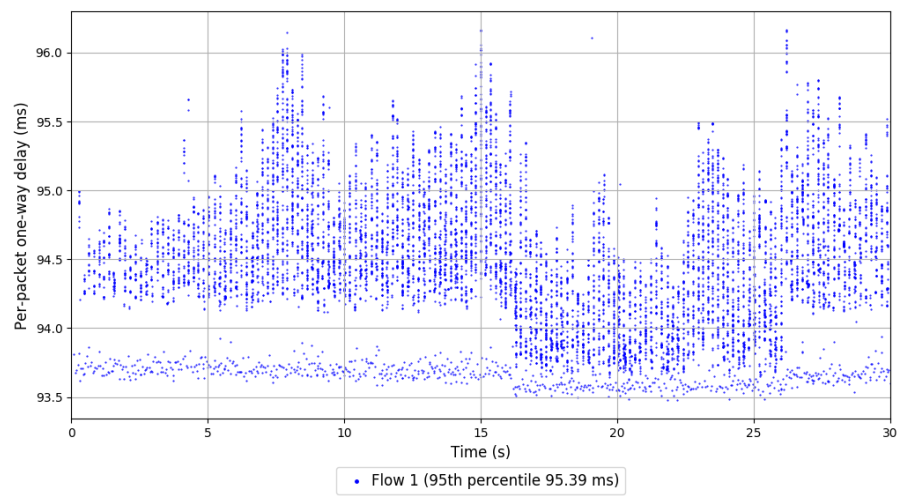
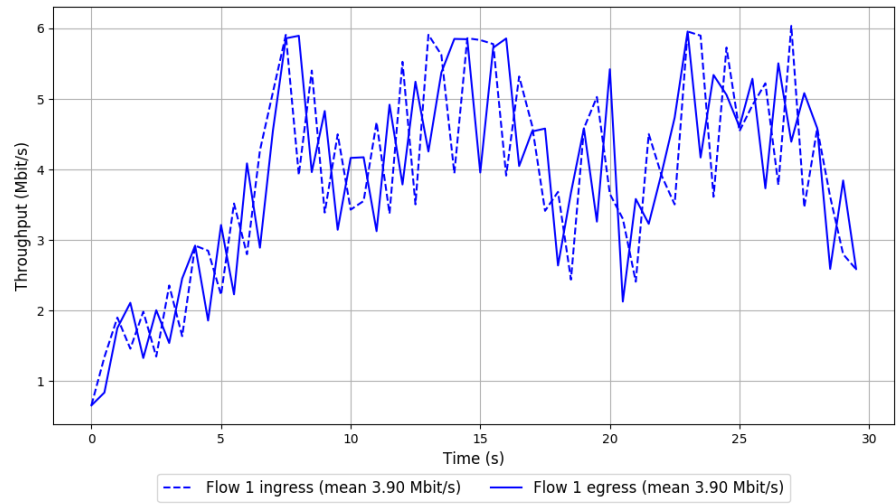
-- Flow 1:

Average throughput: 3.90 Mbit/s

95th percentile per-packet one-way delay: 95.386 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-16 02:21:08

End at: 2018-01-16 02:21:38

Below is generated by plot.py at 2018-01-16 03:52:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.28 Mbit/s

95th percentile per-packet one-way delay: 118.664 ms

Loss rate: 0.00%

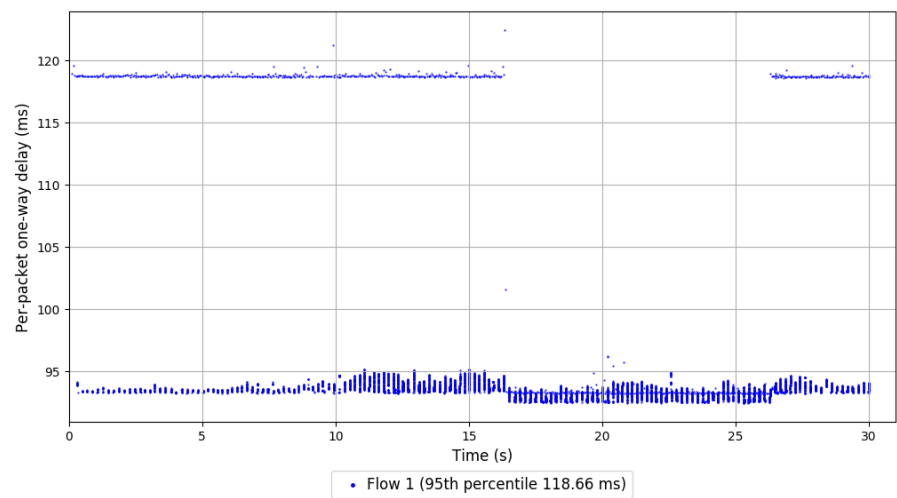
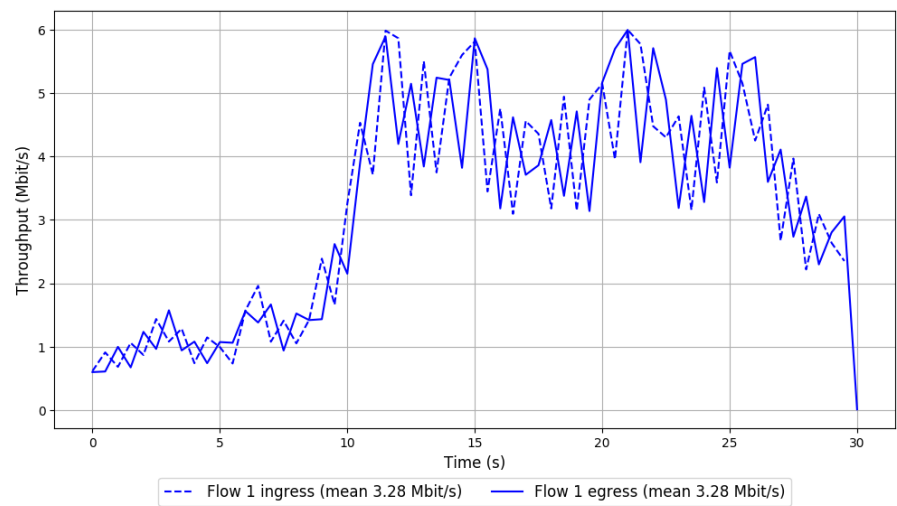
-- Flow 1:

Average throughput: 3.28 Mbit/s

95th percentile per-packet one-way delay: 118.664 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-16 02:33:17

End at: 2018-01-16 02:33:47

Below is generated by plot.py at 2018-01-16 03:52:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.08 Mbit/s

95th percentile per-packet one-way delay: 93.954 ms

Loss rate: 0.00%

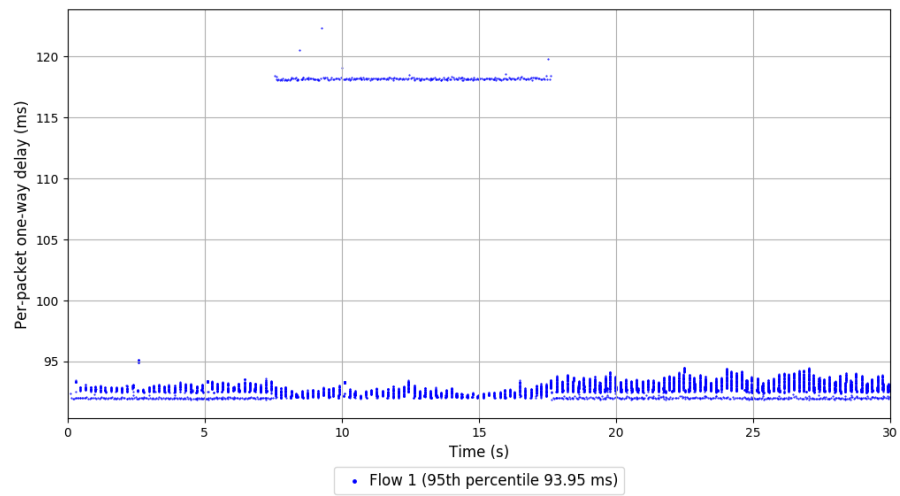
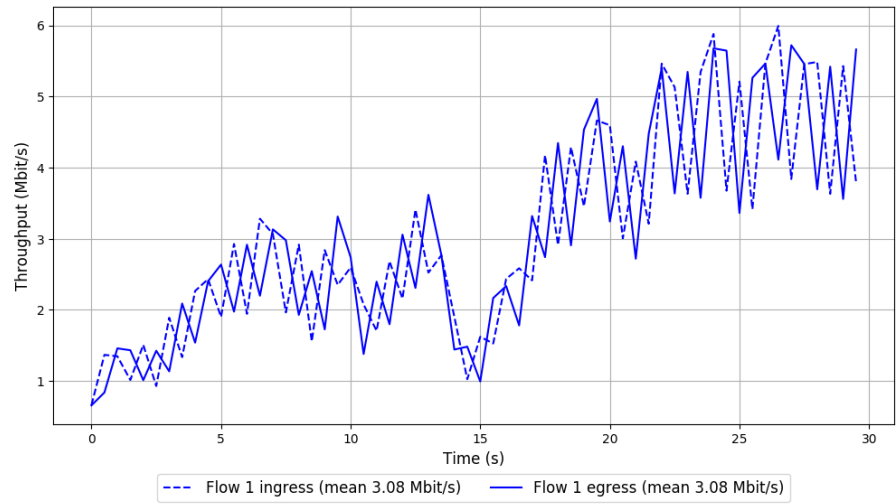
-- Flow 1:

Average throughput: 3.08 Mbit/s

95th percentile per-packet one-way delay: 93.954 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

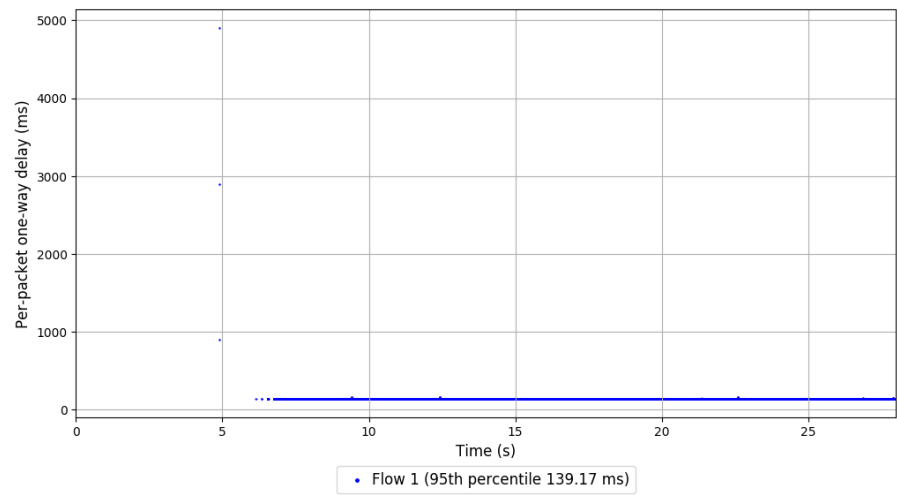
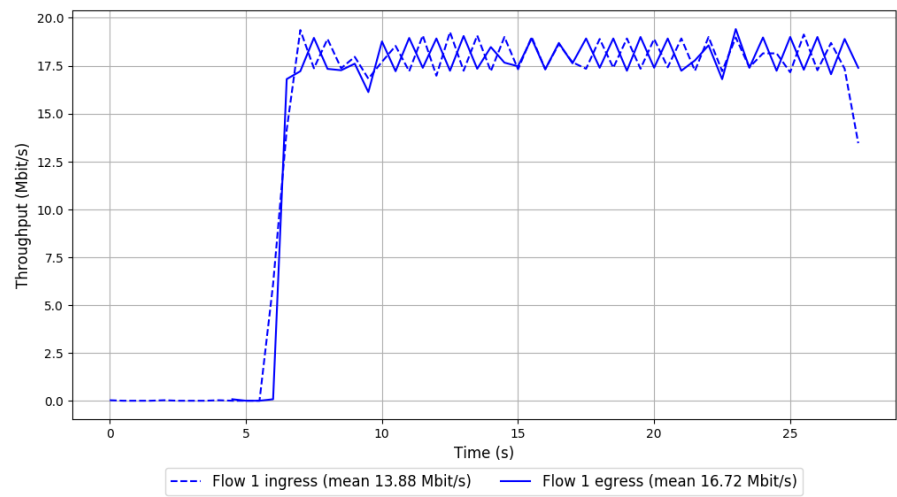


Run 1: Statistics of TaoVA-100x

Start at: 2018-01-16 00:40:18

End at: 2018-01-16 00:40:48

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

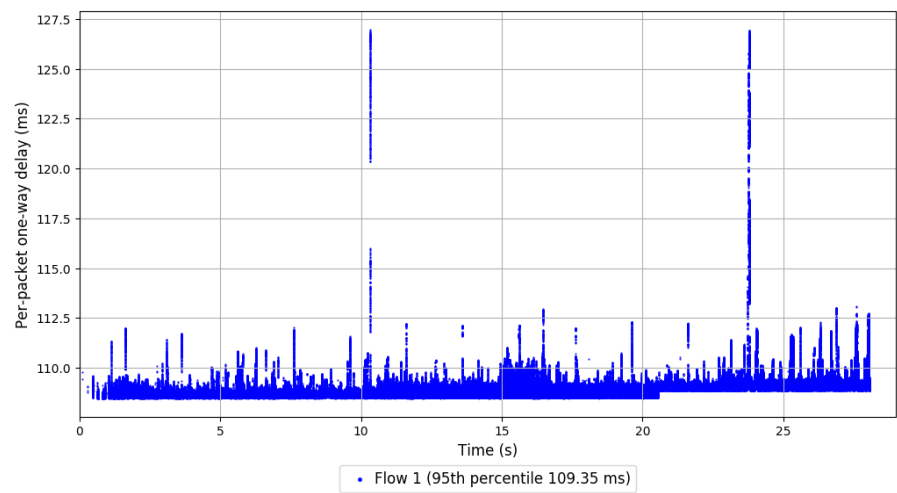
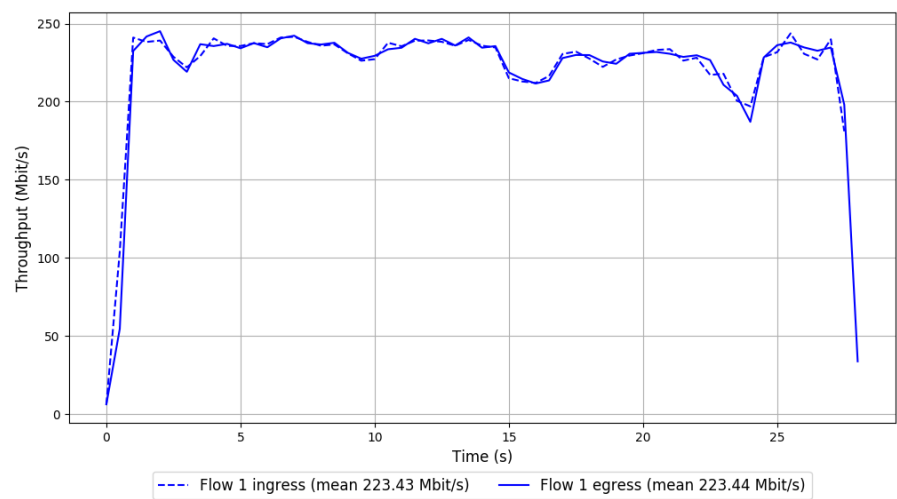


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-16 00:52:01
End at: 2018-01-16 00:52:31

# Below is generated by plot.py at 2018-01-16 03:54:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 223.44 Mbit/s
95th percentile per-packet one-way delay: 109.353 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 223.44 Mbit/s
95th percentile per-packet one-way delay: 109.353 ms
Loss rate: 0.00%
```

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

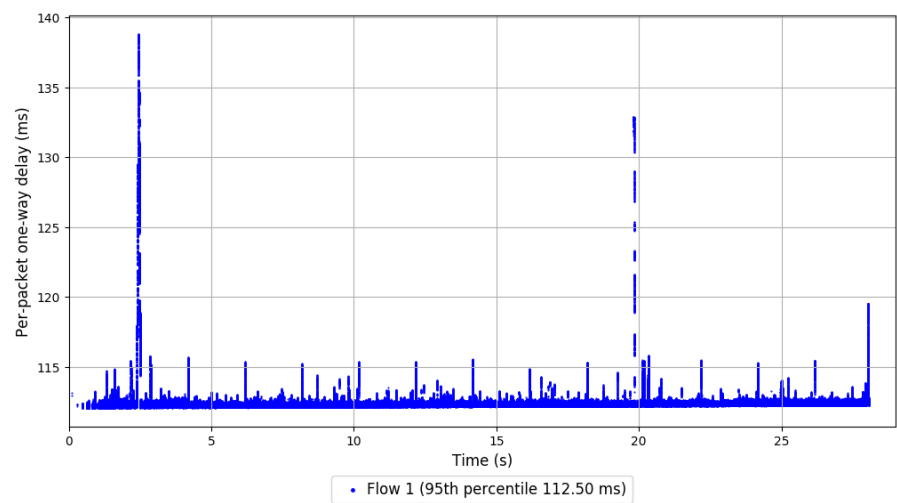
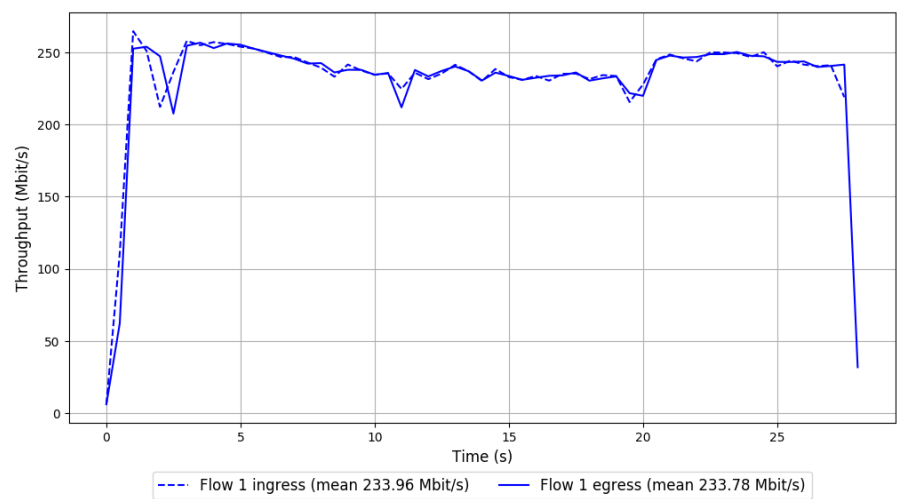


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-01-16 01:04:11
End at: 2018-01-16 01:04:41

# Below is generated by plot.py at 2018-01-16 03:55:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 233.78 Mbit/s
95th percentile per-packet one-way delay: 112.496 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 233.78 Mbit/s
95th percentile per-packet one-way delay: 112.496 ms
Loss rate: 0.08%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-16 01:16:20

End at: 2018-01-16 01:16:50

Below is generated by plot.py at 2018-01-16 03:55:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.48 Mbit/s

95th percentile per-packet one-way delay: 109.427 ms

Loss rate: 0.00%

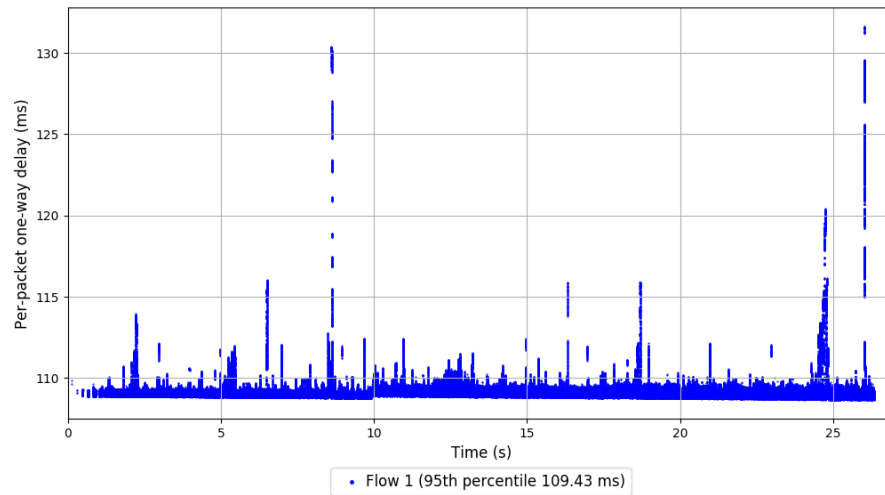
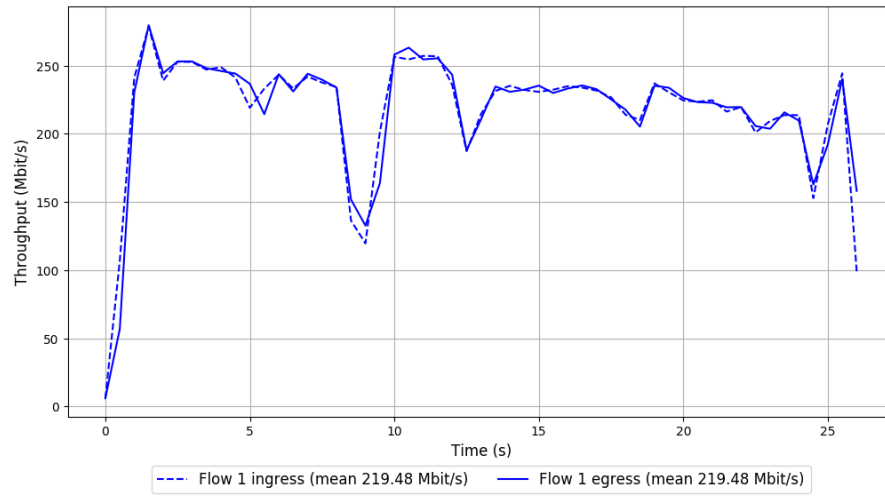
-- Flow 1:

Average throughput: 219.48 Mbit/s

95th percentile per-packet one-way delay: 109.427 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-16 01:28:17

End at: 2018-01-16 01:28:47

Below is generated by plot.py at 2018-01-16 03:55:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.05 Mbit/s

95th percentile per-packet one-way delay: 104.126 ms

Loss rate: 0.00%

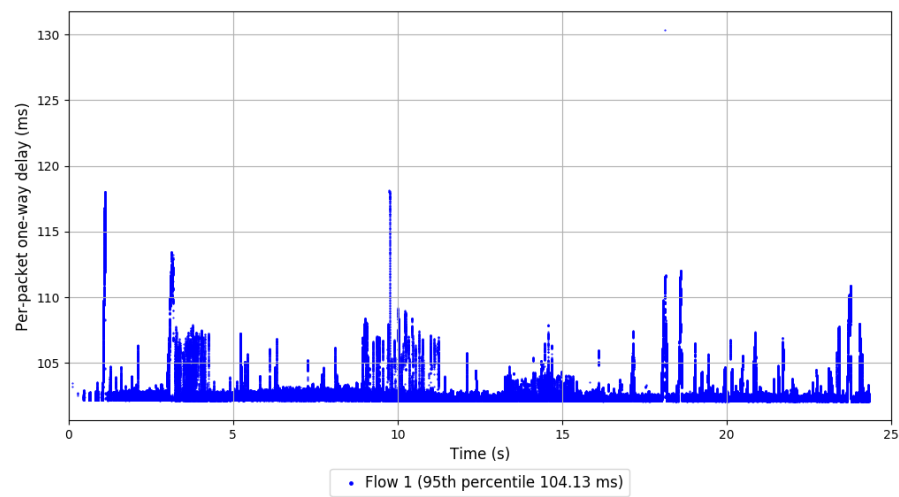
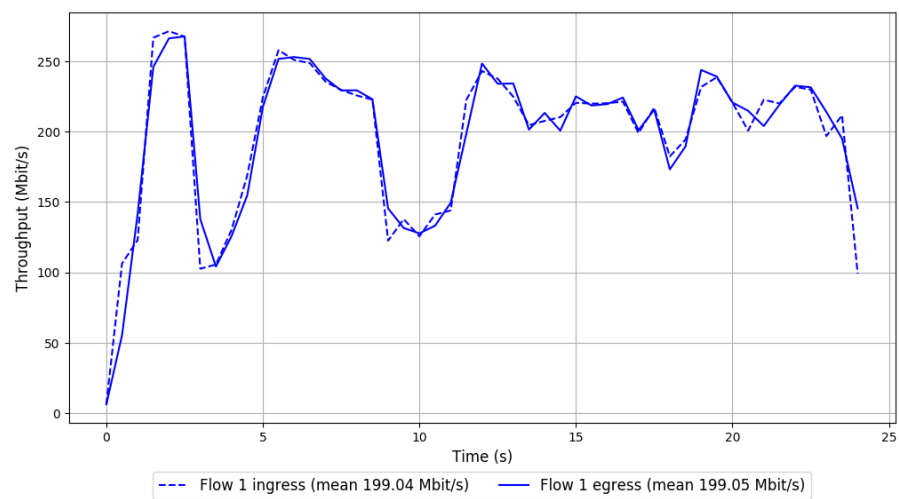
-- Flow 1:

Average throughput: 199.05 Mbit/s

95th percentile per-packet one-way delay: 104.126 ms

Loss rate: 0.00%

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

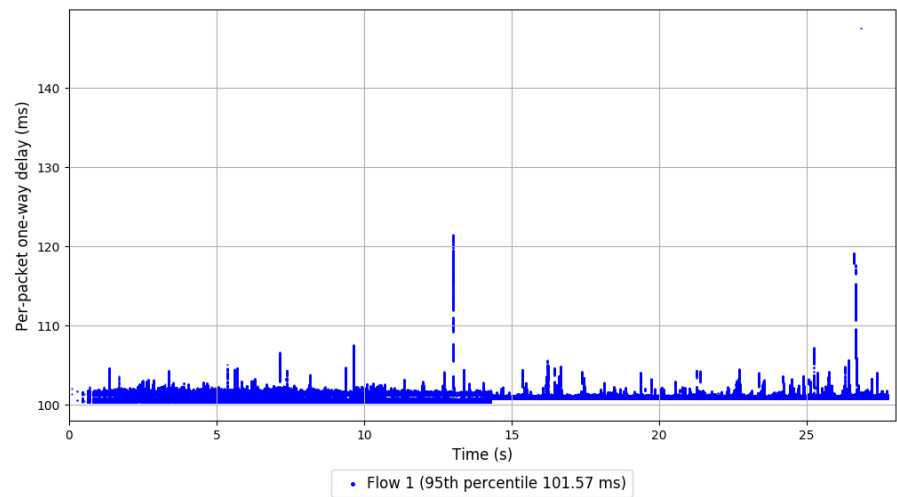
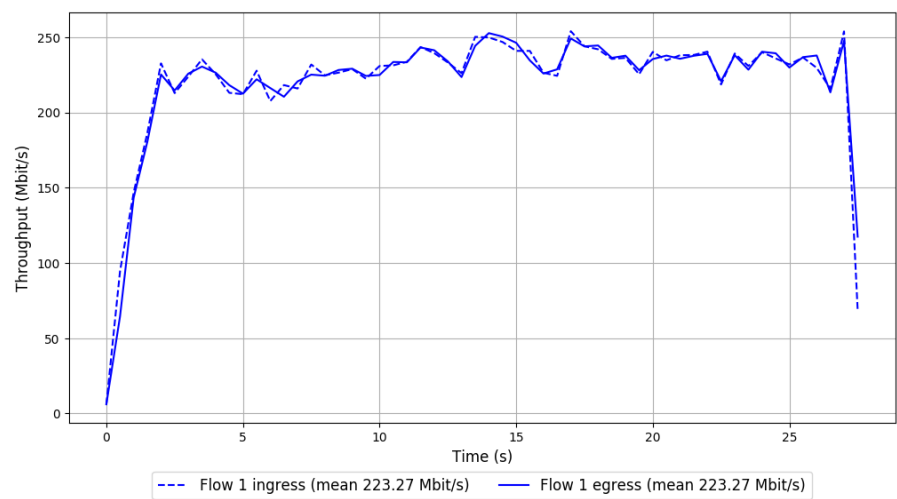


```
Run 6: Statistics of TaoVA-100x

Start at: 2018-01-16 01:40:17
End at: 2018-01-16 01:40:47

# Below is generated by plot.py at 2018-01-16 03:55:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 223.27 Mbit/s
95th percentile per-packet one-way delay: 101.568 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 223.27 Mbit/s
95th percentile per-packet one-way delay: 101.568 ms
Loss rate: 0.00%
```

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

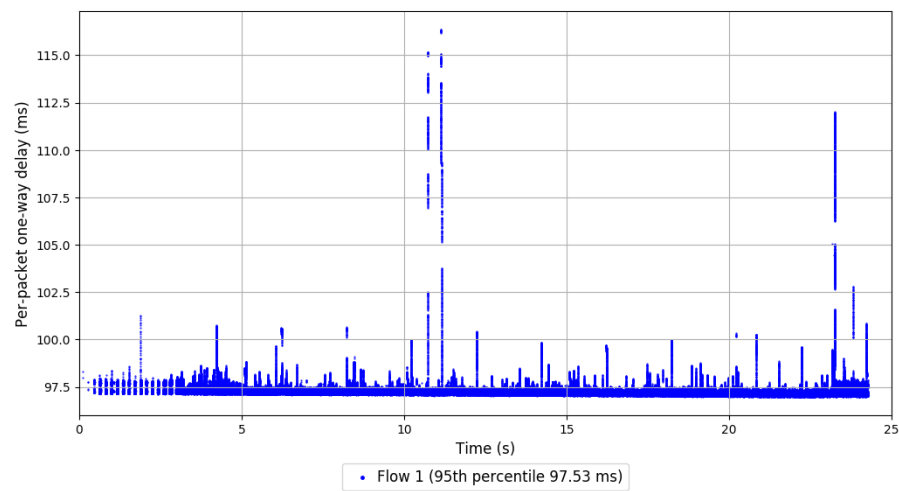
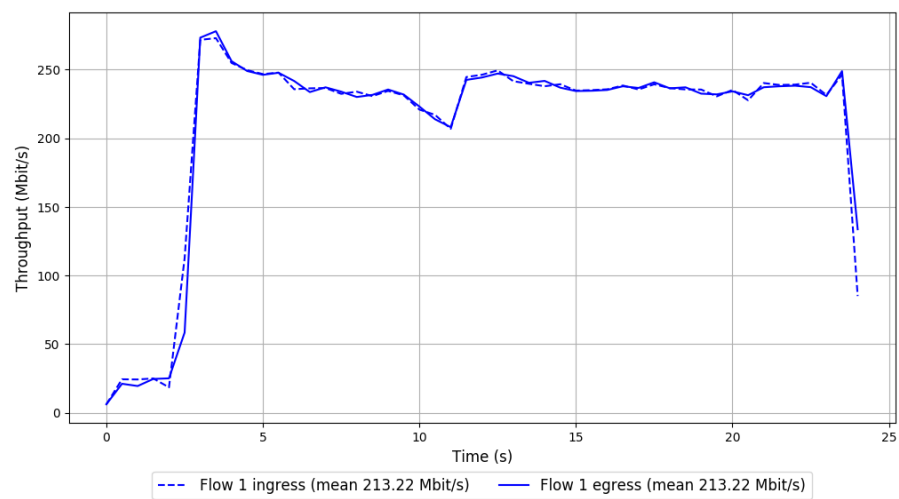


```
Run 7: Statistics of TaoVA-100x

Start at: 2018-01-16 01:52:25
End at: 2018-01-16 01:52:55

# Below is generated by plot.py at 2018-01-16 03:55:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 213.22 Mbit/s
95th percentile per-packet one-way delay: 97.534 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 213.22 Mbit/s
95th percentile per-packet one-way delay: 97.534 ms
Loss rate: 0.00%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-16 02:04:26

End at: 2018-01-16 02:04:56

Below is generated by plot.py at 2018-01-16 03:57:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 233.26 Mbit/s

95th percentile per-packet one-way delay: 94.754 ms

Loss rate: 0.00%

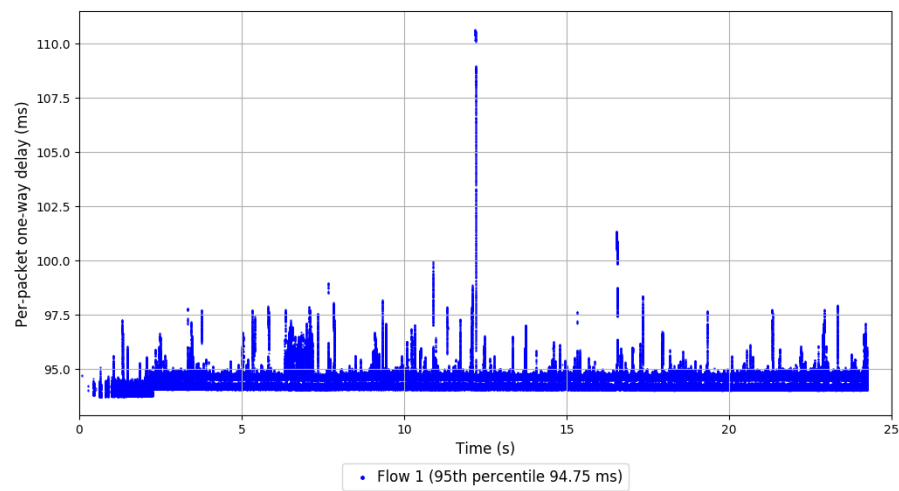
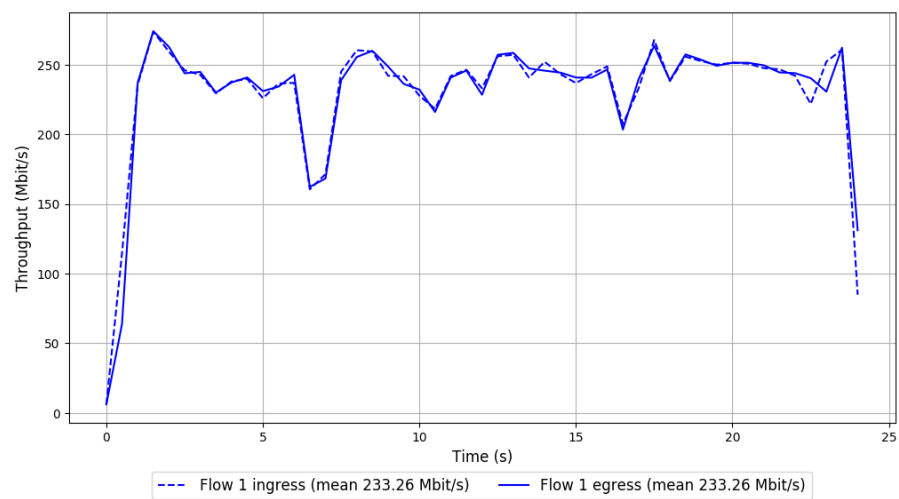
-- Flow 1:

Average throughput: 233.26 Mbit/s

95th percentile per-packet one-way delay: 94.754 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-16 02:16:21

End at: 2018-01-16 02:16:51

Below is generated by plot.py at 2018-01-16 03:58:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.15 Mbit/s

95th percentile per-packet one-way delay: 93.453 ms

Loss rate: 0.00%

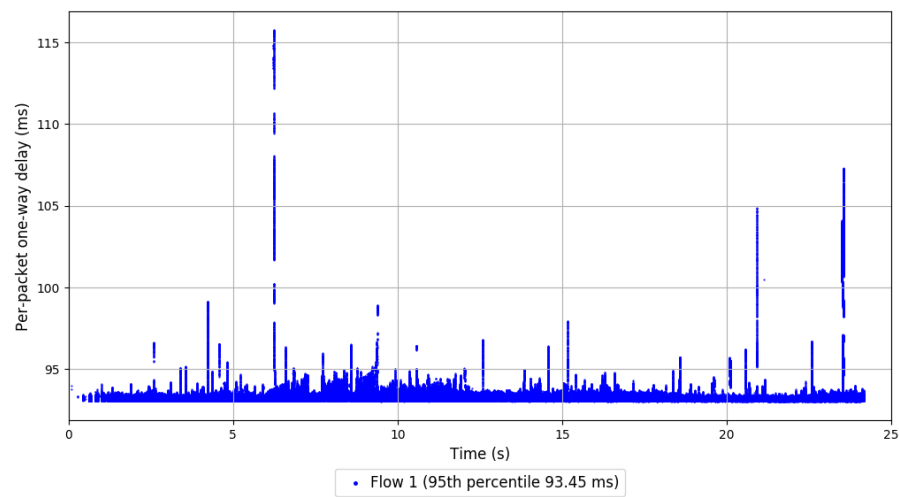
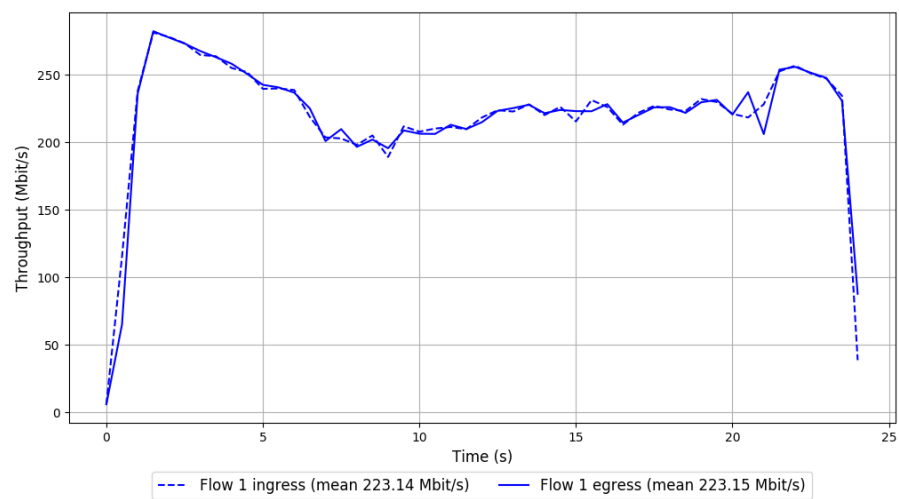
-- Flow 1:

Average throughput: 223.15 Mbit/s

95th percentile per-packet one-way delay: 93.453 ms

Loss rate: 0.00%

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

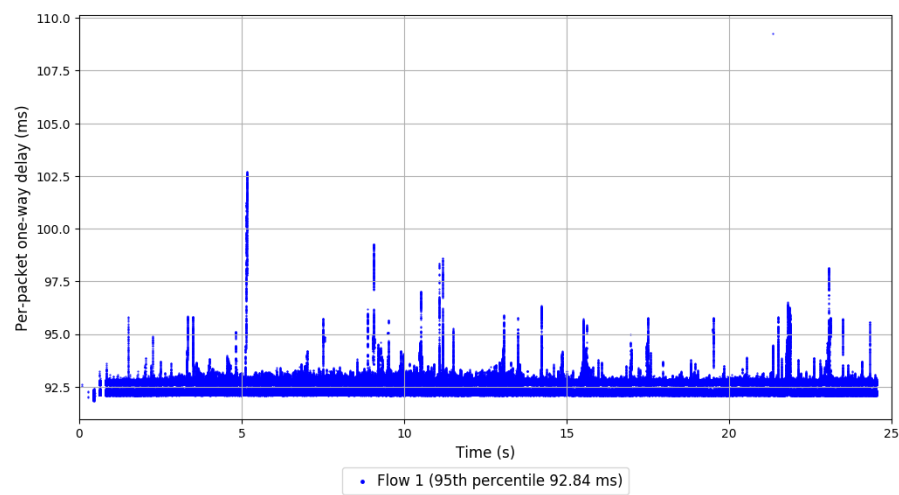
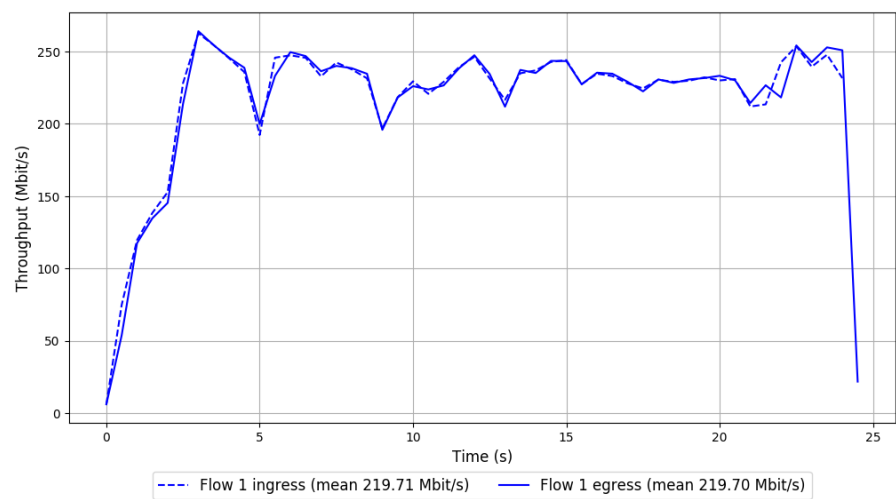


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-16 02:28:28
End at: 2018-01-16 02:28:58

# Below is generated by plot.py at 2018-01-16 03:59:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.70 Mbit/s
95th percentile per-packet one-way delay: 92.844 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 219.70 Mbit/s
95th percentile per-packet one-way delay: 92.844 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-16 00:42:36

End at: 2018-01-16 00:43:06

Below is generated by plot.py at 2018-01-16 03:59:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.53 Mbit/s

95th percentile per-packet one-way delay: 140.664 ms

Loss rate: 0.24%

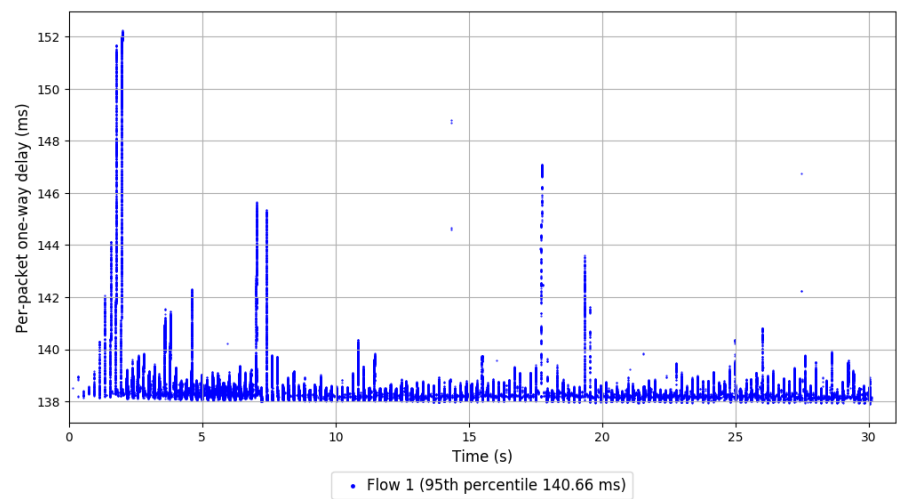
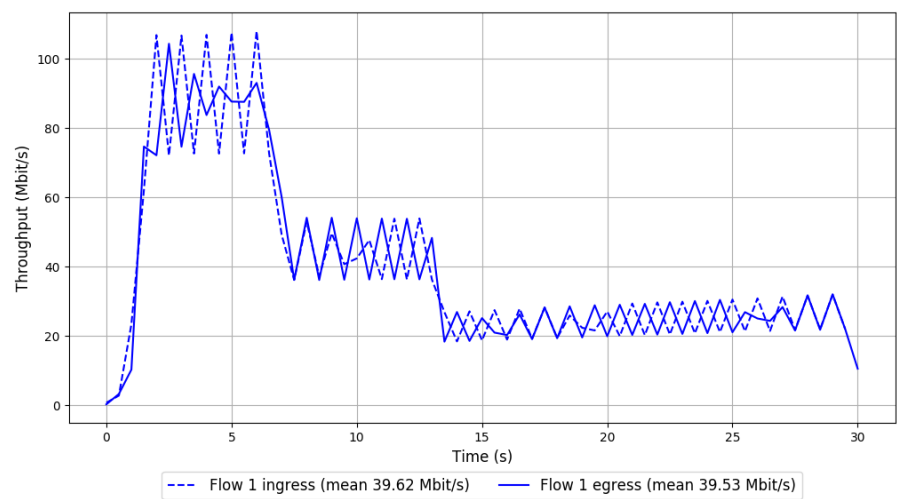
-- Flow 1:

Average throughput: 39.53 Mbit/s

95th percentile per-packet one-way delay: 140.664 ms

Loss rate: 0.24%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-16 00:54:39

End at: 2018-01-16 00:55:09

Below is generated by plot.py at 2018-01-16 03:59:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.14 Mbit/s

95th percentile per-packet one-way delay: 111.705 ms

Loss rate: 0.01%

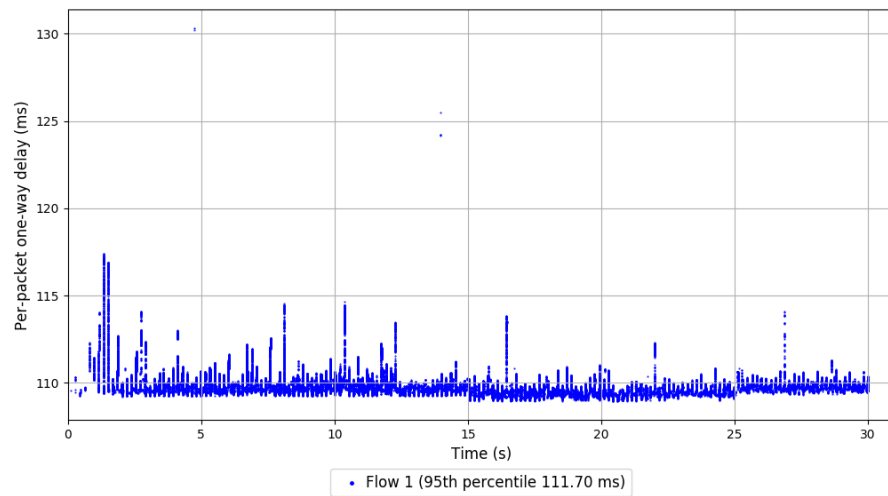
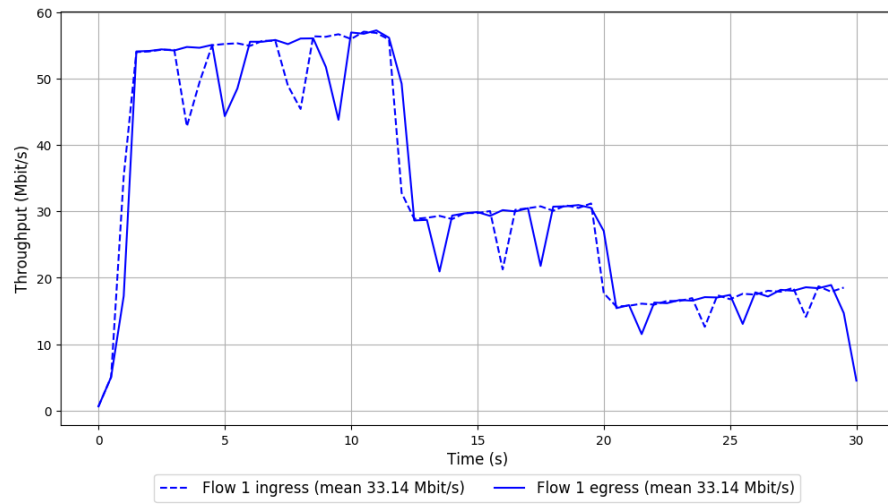
-- Flow 1:

Average throughput: 33.14 Mbit/s

95th percentile per-packet one-way delay: 111.705 ms

Loss rate: 0.01%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-16 01:06:46

End at: 2018-01-16 01:07:16

Below is generated by plot.py at 2018-01-16 03:59:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.04 Mbit/s

95th percentile per-packet one-way delay: 115.385 ms

Loss rate: 0.13%

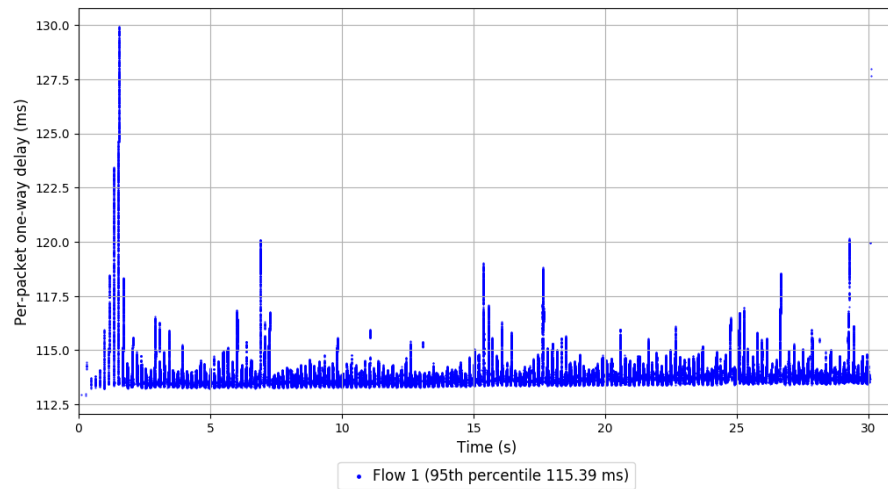
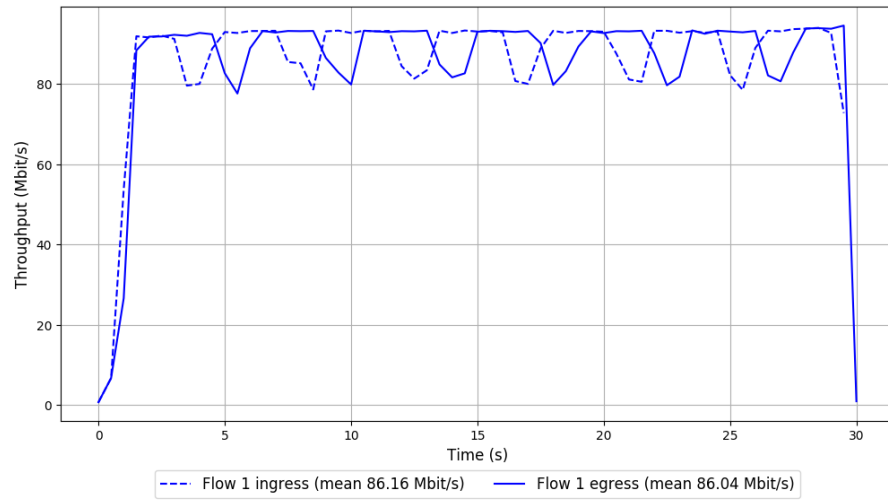
-- Flow 1:

Average throughput: 86.04 Mbit/s

95th percentile per-packet one-way delay: 115.385 ms

Loss rate: 0.13%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-16 01:18:49

End at: 2018-01-16 01:19:19

Below is generated by plot.py at 2018-01-16 03:59:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.18 Mbit/s

95th percentile per-packet one-way delay: 108.915 ms

Loss rate: 0.01%

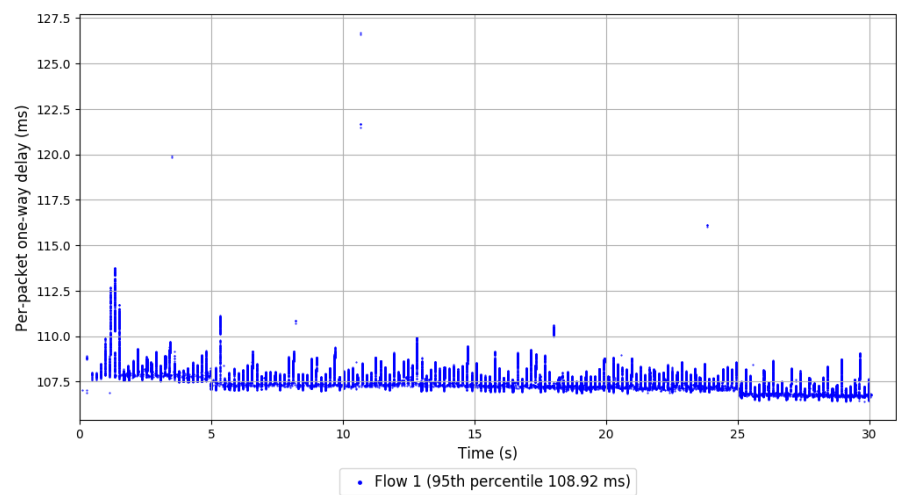
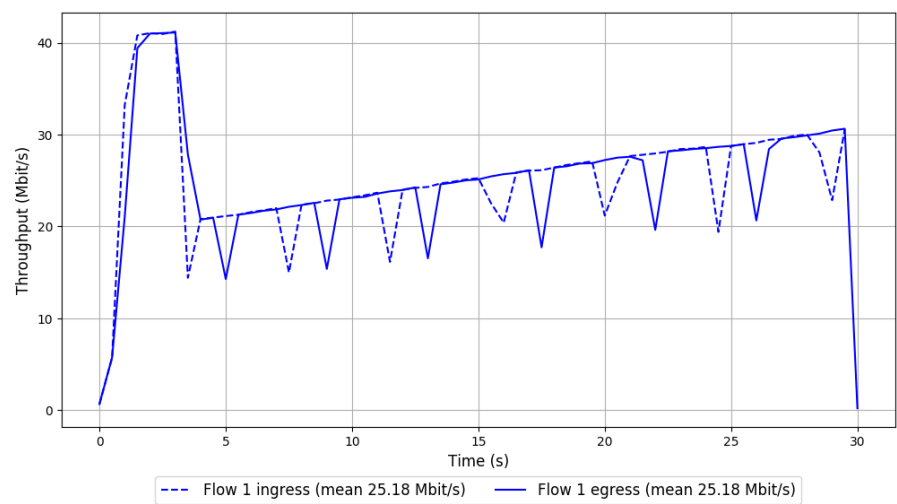
-- Flow 1:

Average throughput: 25.18 Mbit/s

95th percentile per-packet one-way delay: 108.915 ms

Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-16 01:30:43

End at: 2018-01-16 01:31:13

Below is generated by plot.py at 2018-01-16 03:59:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.87 Mbit/s

95th percentile per-packet one-way delay: 104.313 ms

Loss rate: 0.00%

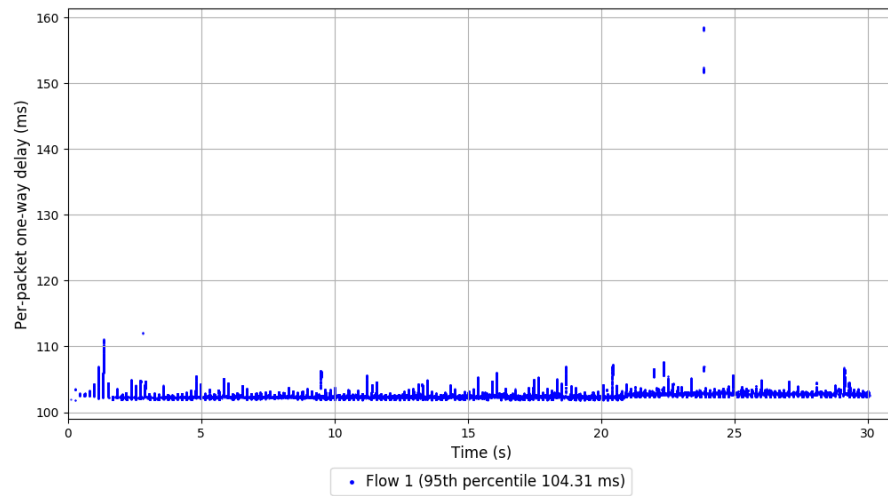
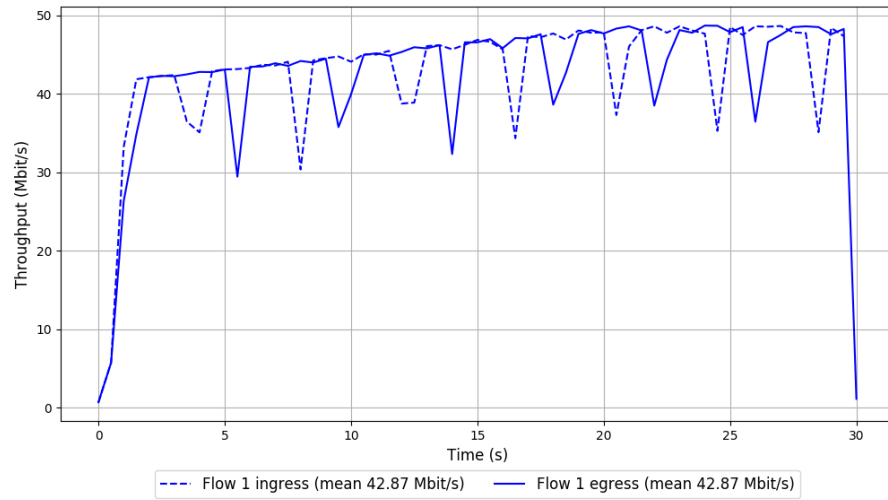
-- Flow 1:

Average throughput: 42.87 Mbit/s

95th percentile per-packet one-way delay: 104.313 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-16 01:42:53

End at: 2018-01-16 01:43:23

Below is generated by plot.py at 2018-01-16 03:59:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.16 Mbit/s

95th percentile per-packet one-way delay: 101.774 ms

Loss rate: 0.00%

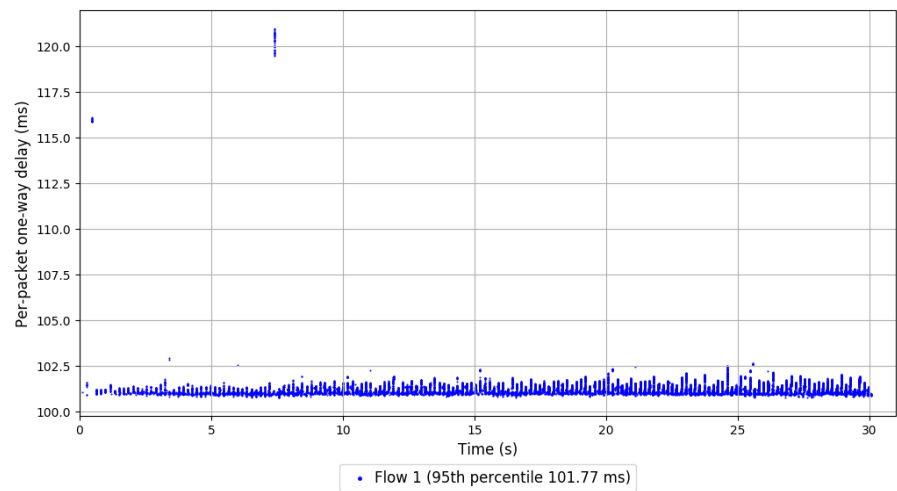
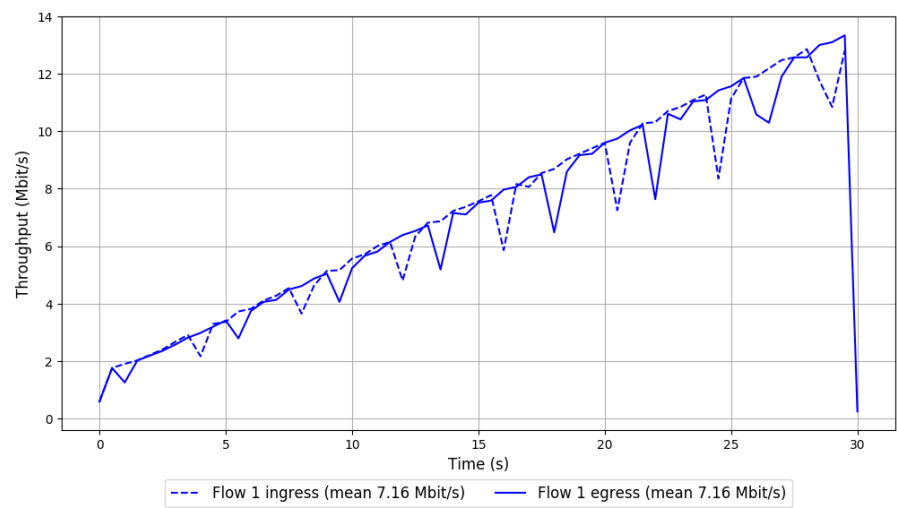
-- Flow 1:

Average throughput: 7.16 Mbit/s

95th percentile per-packet one-way delay: 101.774 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-16 01:54:52

End at: 2018-01-16 01:55:22

Below is generated by plot.py at 2018-01-16 03:59:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.56 Mbit/s

95th percentile per-packet one-way delay: 98.054 ms

Loss rate: 0.00%

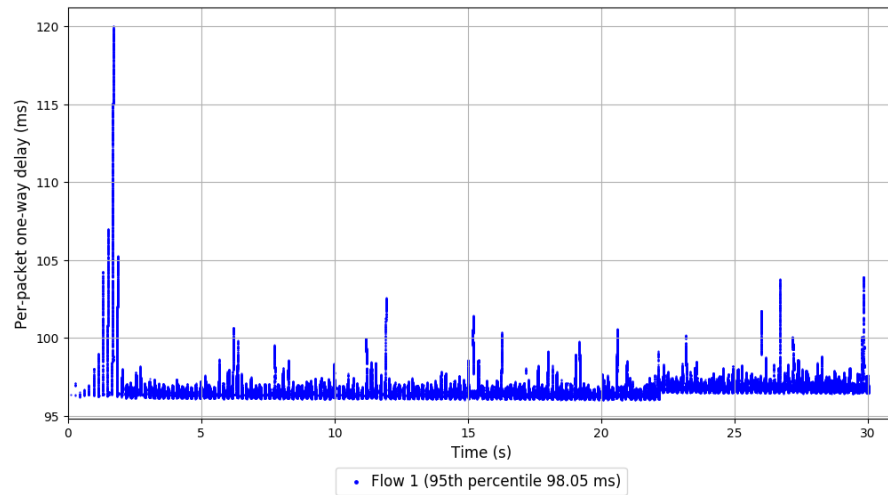
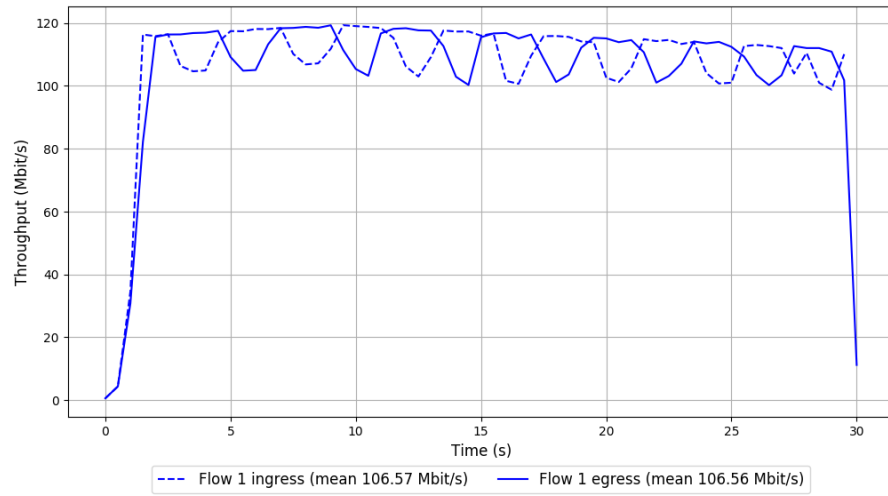
-- Flow 1:

Average throughput: 106.56 Mbit/s

95th percentile per-packet one-way delay: 98.054 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-16 02:06:53

End at: 2018-01-16 02:07:23

Below is generated by plot.py at 2018-01-16 03:59:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.02 Mbit/s

95th percentile per-packet one-way delay: 95.740 ms

Loss rate: 0.00%

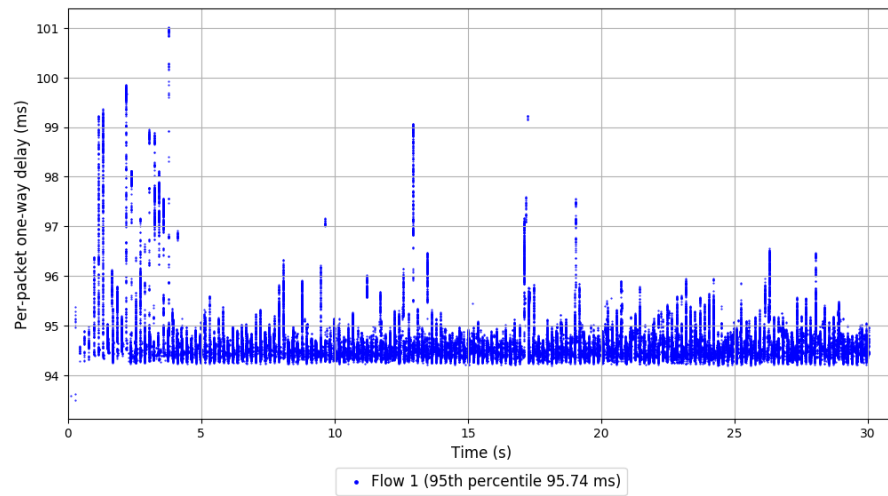
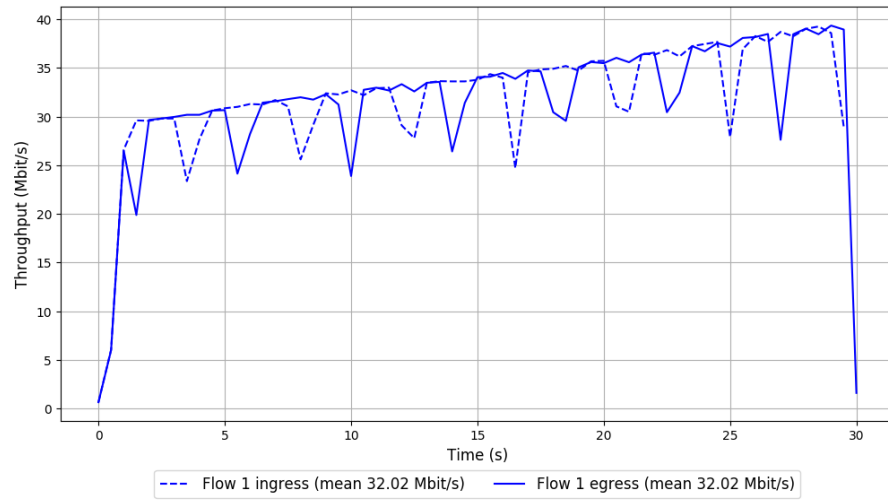
-- Flow 1:

Average throughput: 32.02 Mbit/s

95th percentile per-packet one-way delay: 95.740 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-16 02:18:52

End at: 2018-01-16 02:19:22

Below is generated by plot.py at 2018-01-16 03:59:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.95 Mbit/s

95th percentile per-packet one-way delay: 95.486 ms

Loss rate: 0.00%

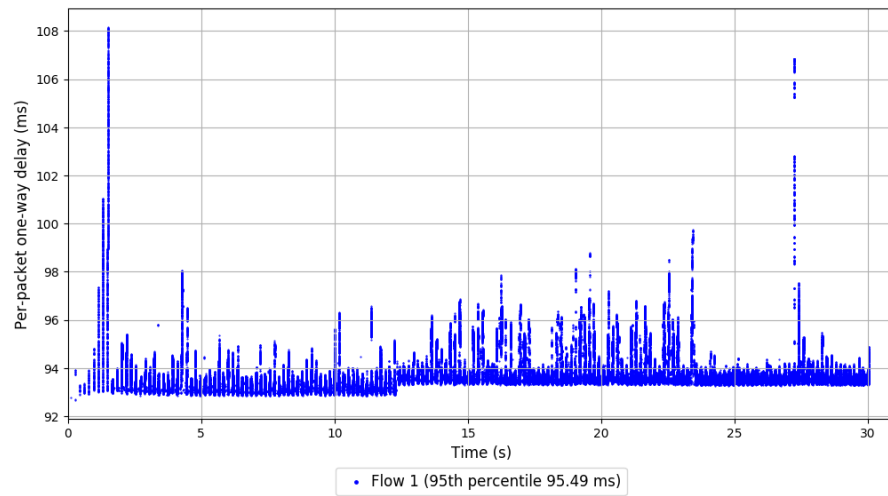
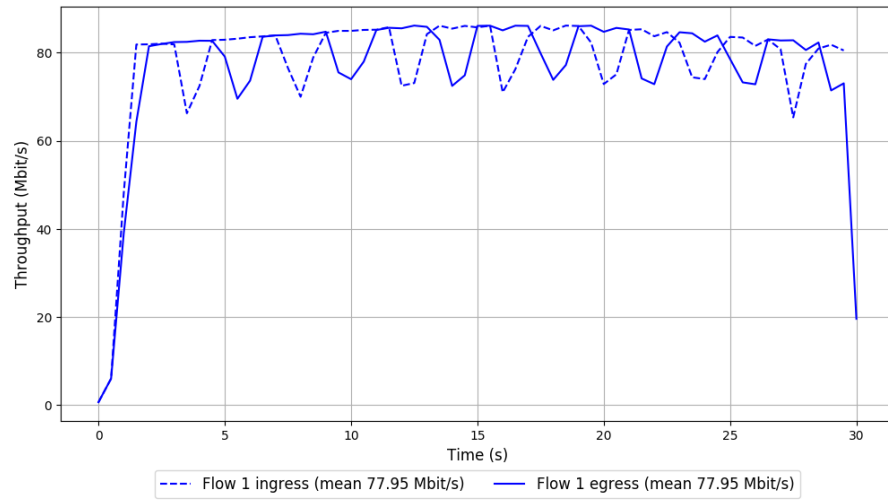
-- Flow 1:

Average throughput: 77.95 Mbit/s

95th percentile per-packet one-way delay: 95.486 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-16 02:30:58

End at: 2018-01-16 02:31:28

Below is generated by plot.py at 2018-01-16 03:59:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.22 Mbit/s

95th percentile per-packet one-way delay: 93.651 ms

Loss rate: 0.00%

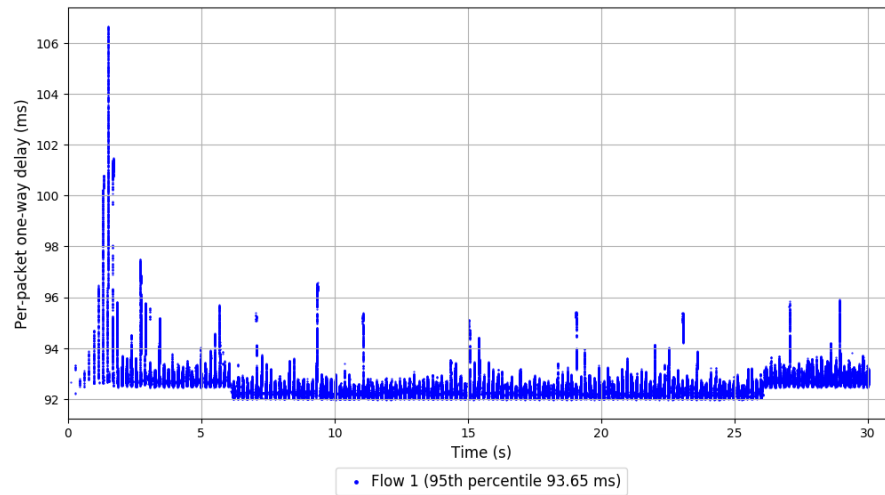
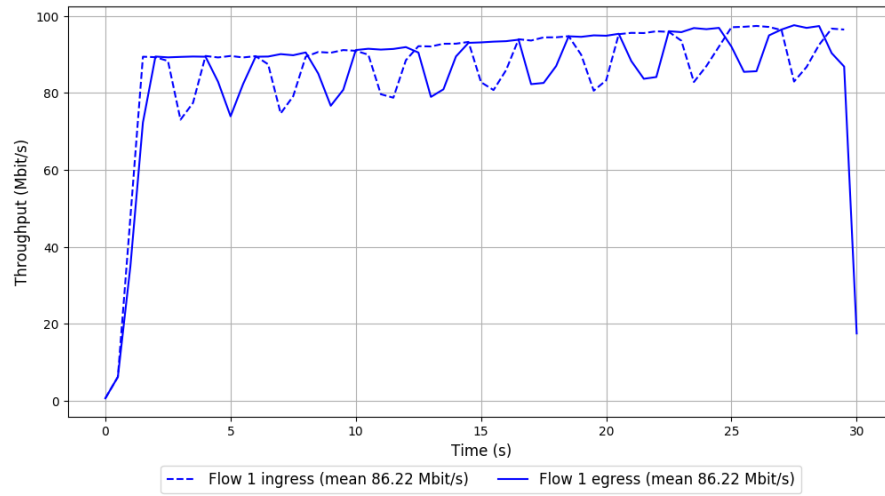
-- Flow 1:

Average throughput: 86.22 Mbit/s

95th percentile per-packet one-way delay: 93.651 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-01-16 00:41:40

End at: 2018-01-16 00:42:10

Below is generated by plot.py at 2018-01-16 03:59:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.06 Mbit/s

95th percentile per-packet one-way delay: 282.803 ms

Loss rate: 0.36%

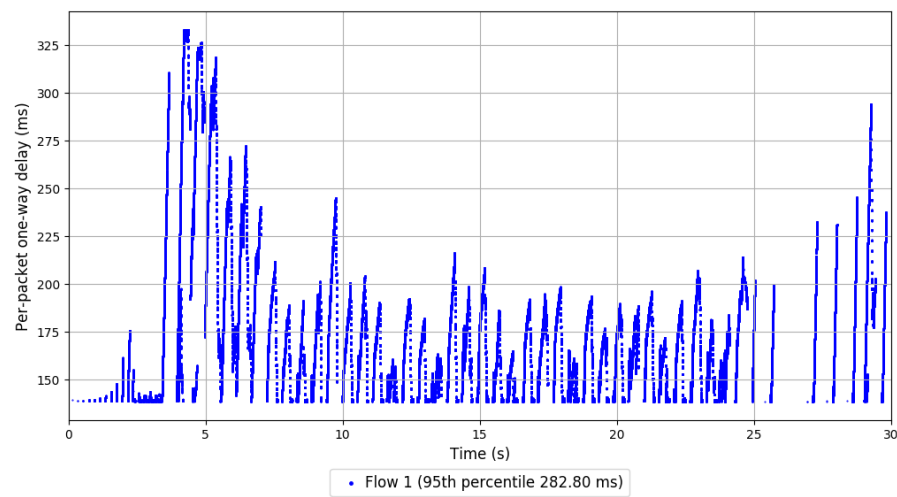
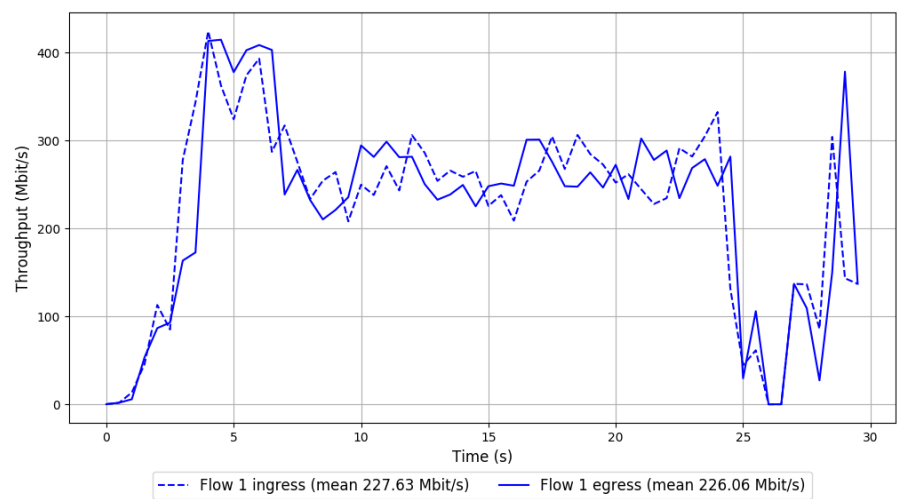
-- Flow 1:

Average throughput: 226.06 Mbit/s

95th percentile per-packet one-way delay: 282.803 ms

Loss rate: 0.36%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-16 00:53:40

End at: 2018-01-16 00:54:10

Below is generated by plot.py at 2018-01-16 04:01:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 275.58 Mbit/s

95th percentile per-packet one-way delay: 182.642 ms

Loss rate: 2.46%

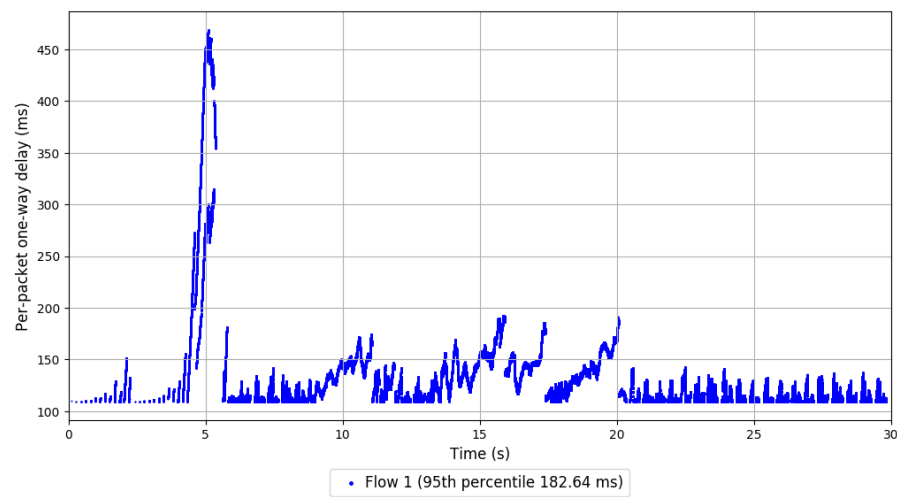
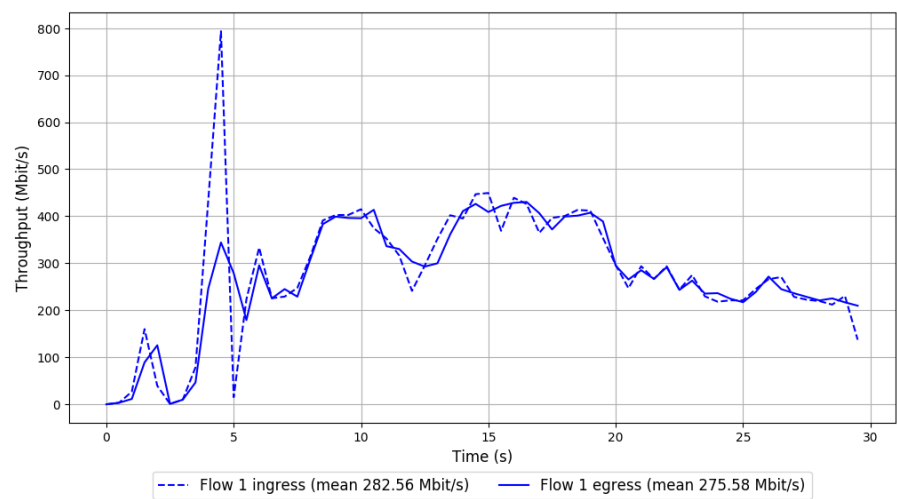
-- Flow 1:

Average throughput: 275.58 Mbit/s

95th percentile per-packet one-way delay: 182.642 ms

Loss rate: 2.46%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-16 01:05:50

End at: 2018-01-16 01:06:20

Below is generated by plot.py at 2018-01-16 04:01:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 236.22 Mbit/s

95th percentile per-packet one-way delay: 170.632 ms

Loss rate: 0.98%

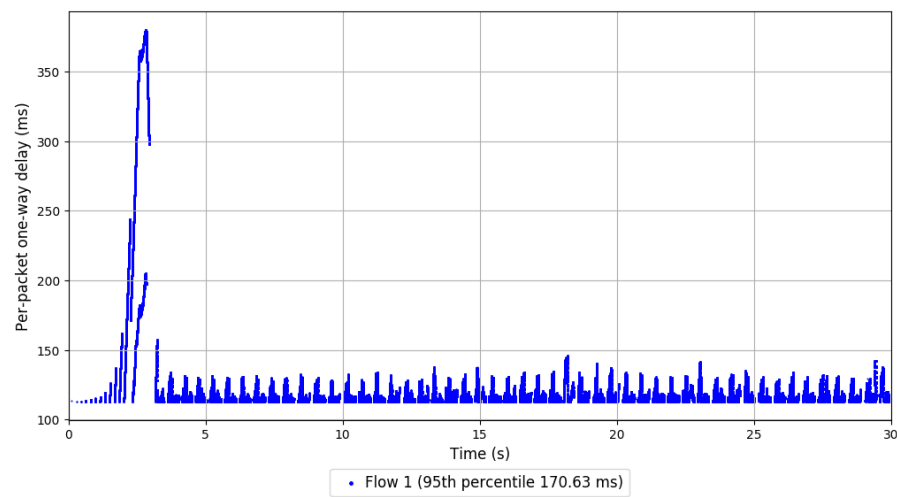
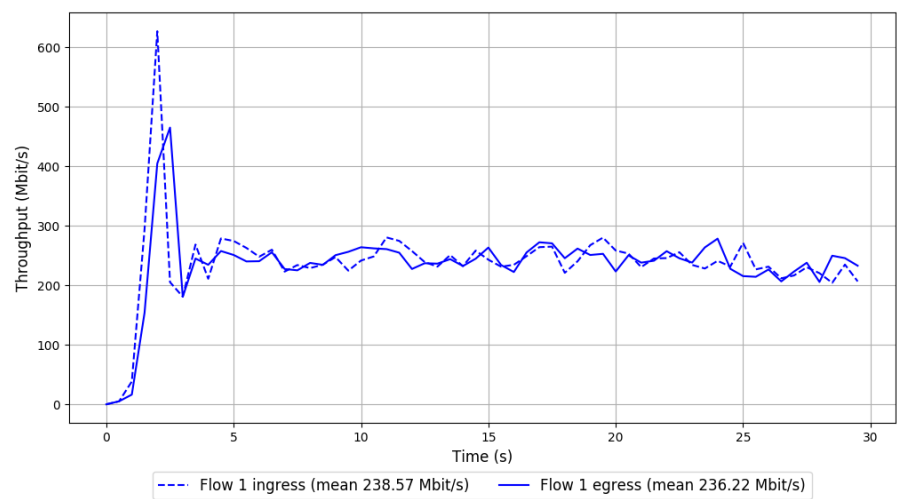
-- Flow 1:

Average throughput: 236.22 Mbit/s

95th percentile per-packet one-way delay: 170.632 ms

Loss rate: 0.98%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-16 01:17:57

End at: 2018-01-16 01:18:27

Below is generated by plot.py at 2018-01-16 04:01:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.36 Mbit/s

95th percentile per-packet one-way delay: 317.118 ms

Loss rate: 3.11%

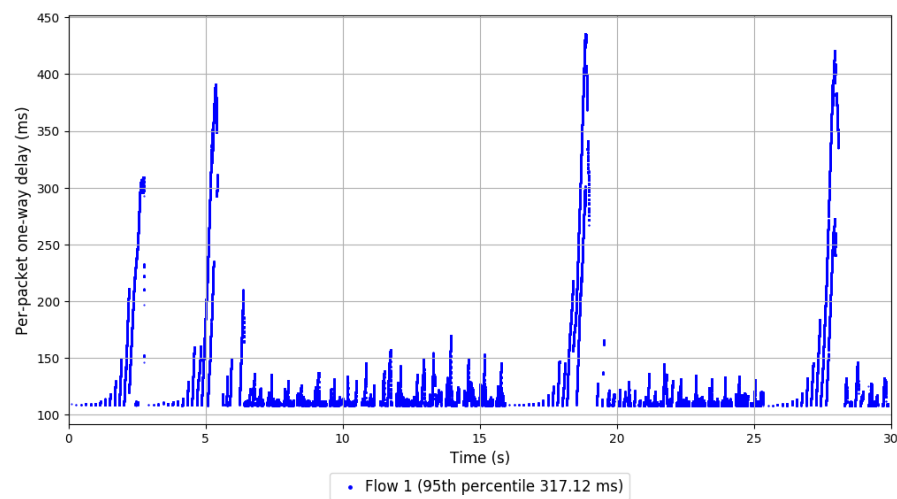
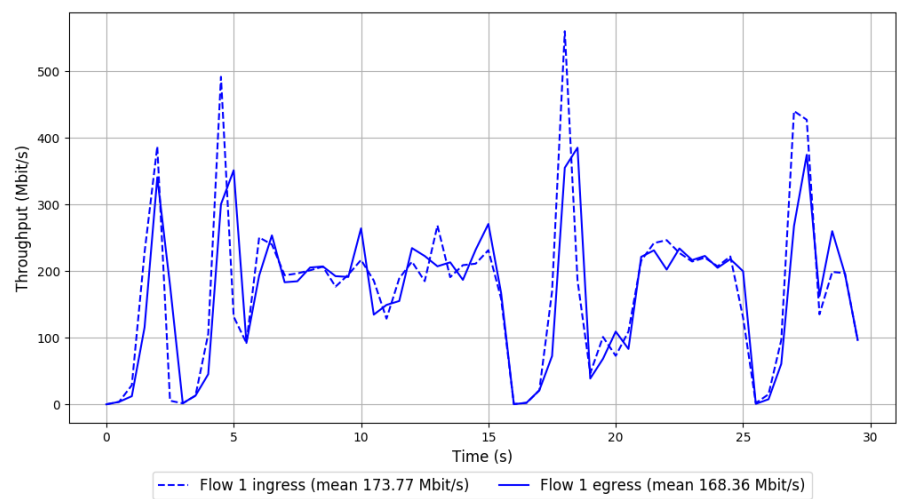
-- Flow 1:

Average throughput: 168.36 Mbit/s

95th percentile per-packet one-way delay: 317.118 ms

Loss rate: 3.11%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-16 01:29:51

End at: 2018-01-16 01:30:21

Below is generated by plot.py at 2018-01-16 04:01:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.56 Mbit/s

95th percentile per-packet one-way delay: 178.336 ms

Loss rate: 3.23%

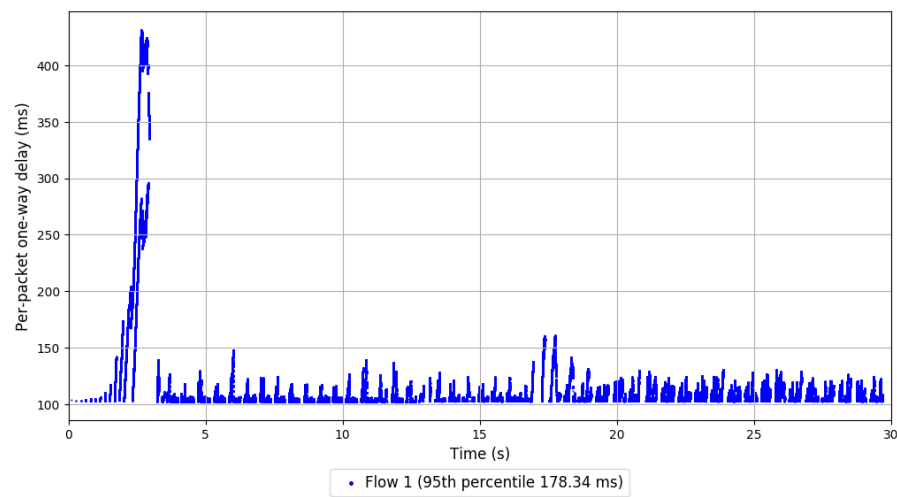
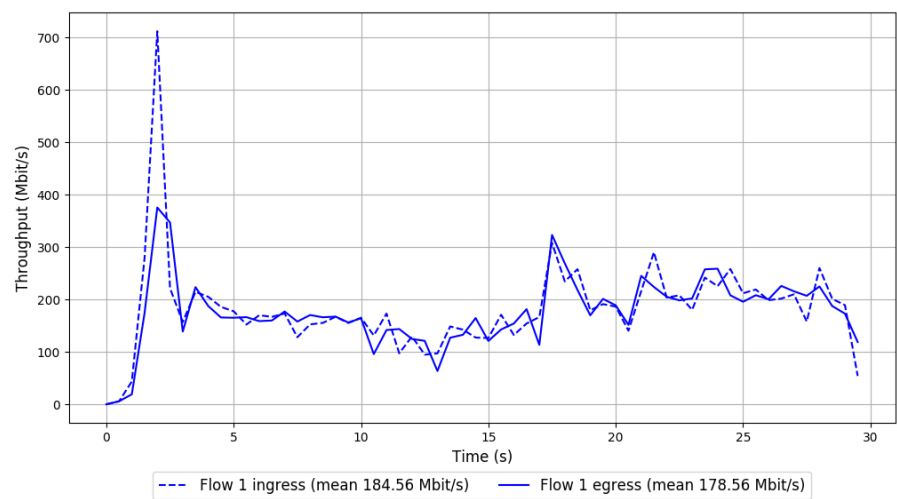
-- Flow 1:

Average throughput: 178.56 Mbit/s

95th percentile per-packet one-way delay: 178.336 ms

Loss rate: 3.23%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-16 01:41:57

End at: 2018-01-16 01:42:27

Below is generated by plot.py at 2018-01-16 04:01:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.45 Mbit/s

95th percentile per-packet one-way delay: 162.152 ms

Loss rate: 2.74%

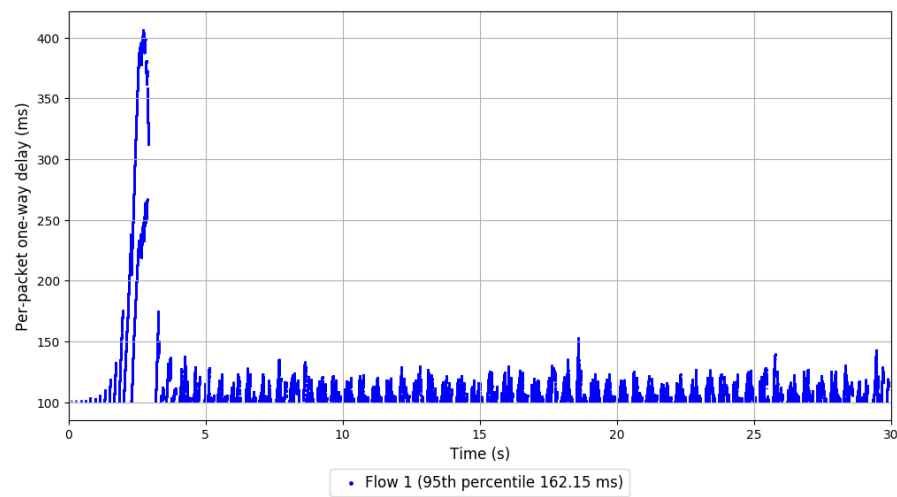
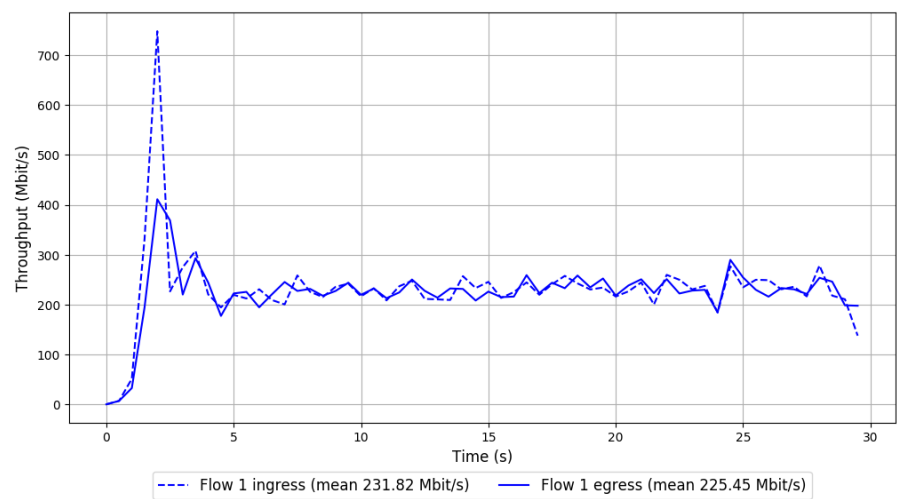
-- Flow 1:

Average throughput: 225.45 Mbit/s

95th percentile per-packet one-way delay: 162.152 ms

Loss rate: 2.74%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-16 01:54:00

End at: 2018-01-16 01:54:30

Below is generated by plot.py at 2018-01-16 04:01:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.68 Mbit/s

95th percentile per-packet one-way delay: 292.278 ms

Loss rate: 4.06%

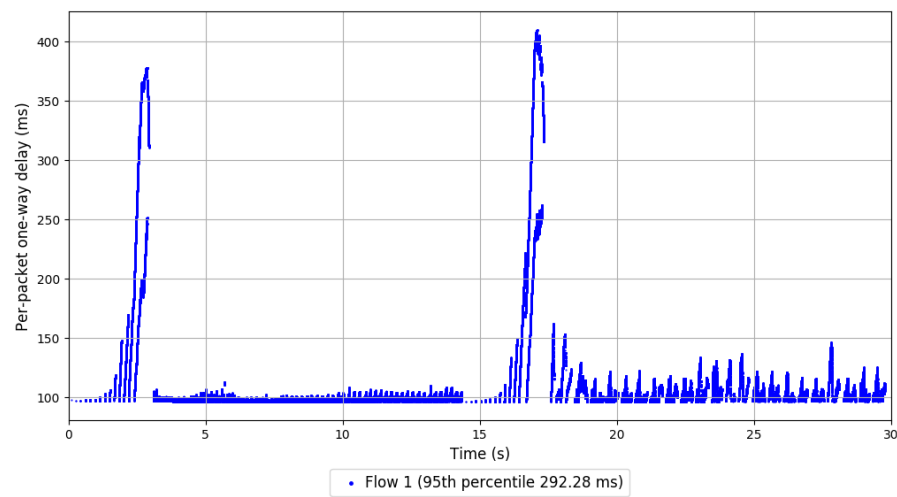
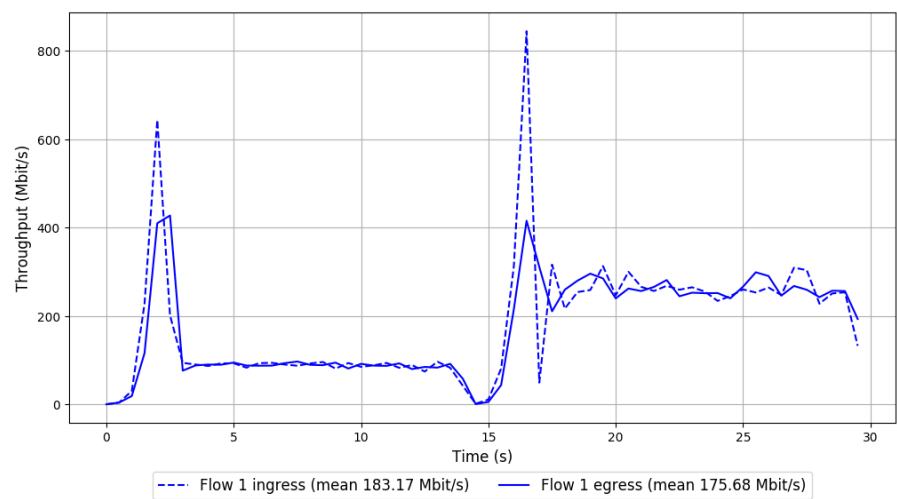
-- Flow 1:

Average throughput: 175.68 Mbit/s

95th percentile per-packet one-way delay: 292.278 ms

Loss rate: 4.06%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-16 02:06:02

End at: 2018-01-16 02:06:32

Below is generated by plot.py at 2018-01-16 04:02:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 166.29 Mbit/s

95th percentile per-packet one-way delay: 180.309 ms

Loss rate: 1.83%

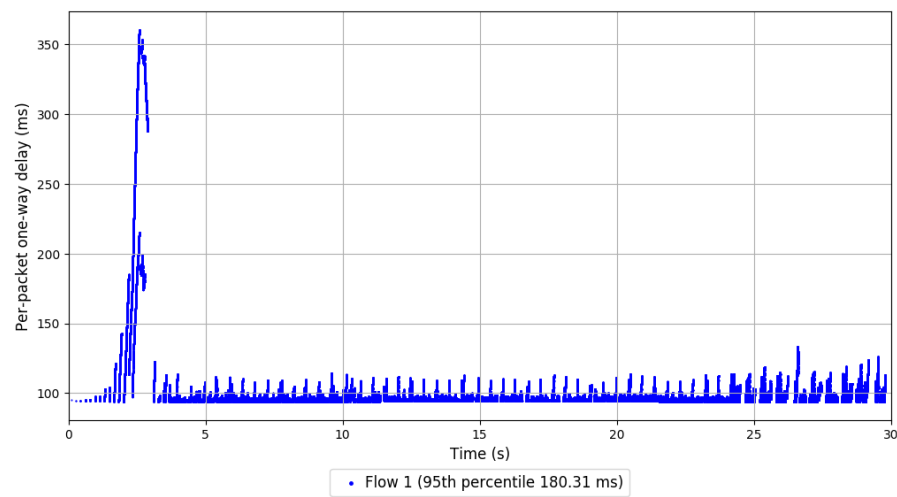
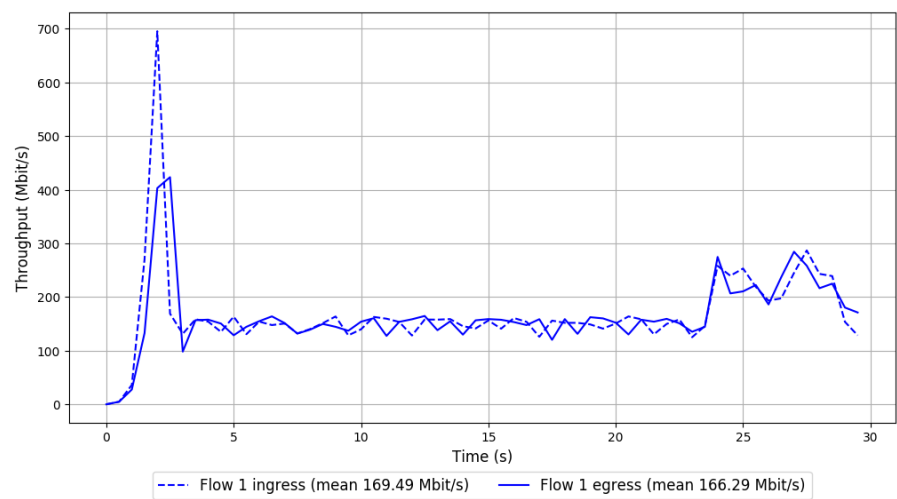
-- Flow 1:

Average throughput: 166.29 Mbit/s

95th percentile per-packet one-way delay: 180.309 ms

Loss rate: 1.83%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-16 02:17:57

End at: 2018-01-16 02:18:27

Below is generated by plot.py at 2018-01-16 04:03:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.23 Mbit/s

95th percentile per-packet one-way delay: 163.638 ms

Loss rate: 1.62%

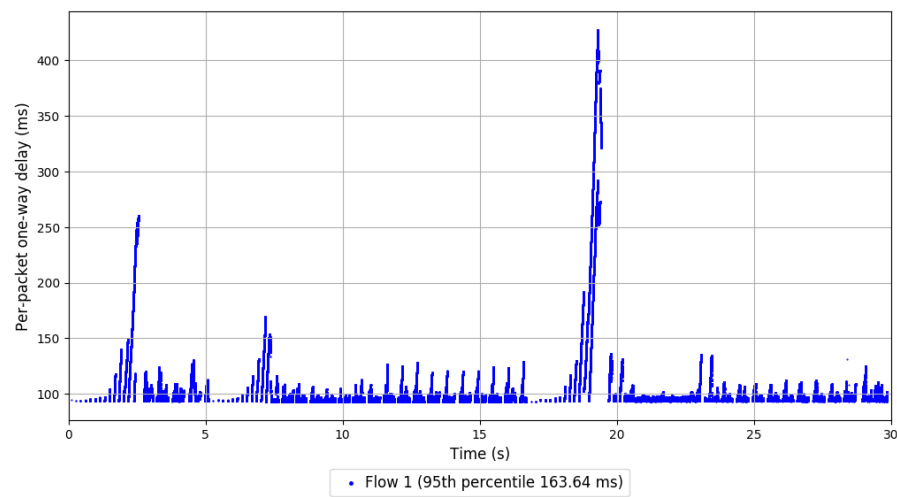
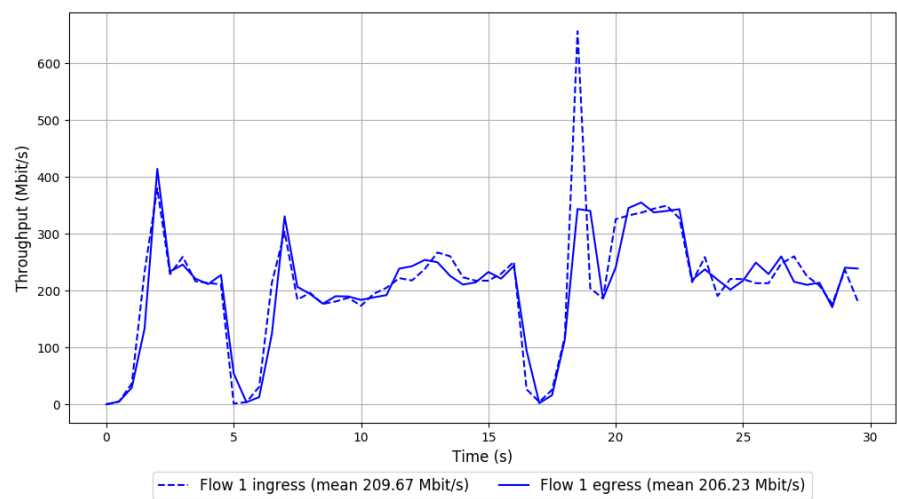
-- Flow 1:

Average throughput: 206.23 Mbit/s

95th percentile per-packet one-way delay: 163.638 ms

Loss rate: 1.62%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-16 02:30:05

End at: 2018-01-16 02:30:35

Below is generated by plot.py at 2018-01-16 04:03:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.41 Mbit/s

95th percentile per-packet one-way delay: 165.393 ms

Loss rate: 2.56%

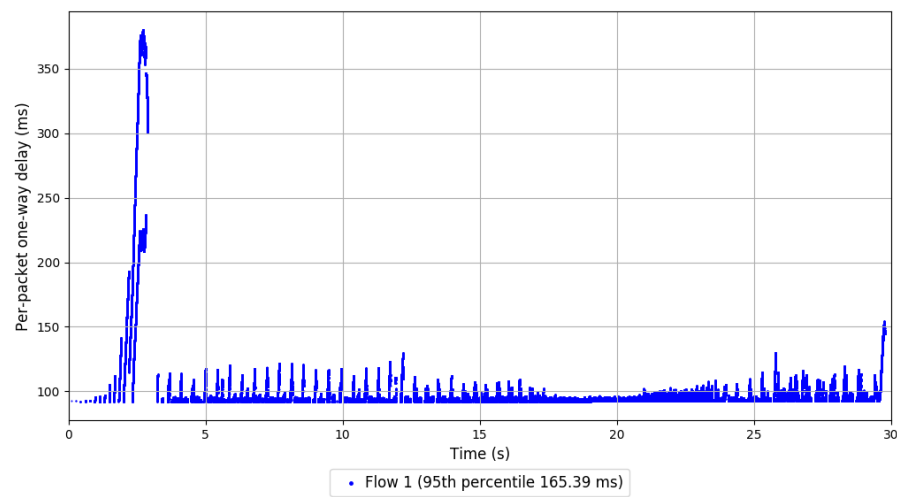
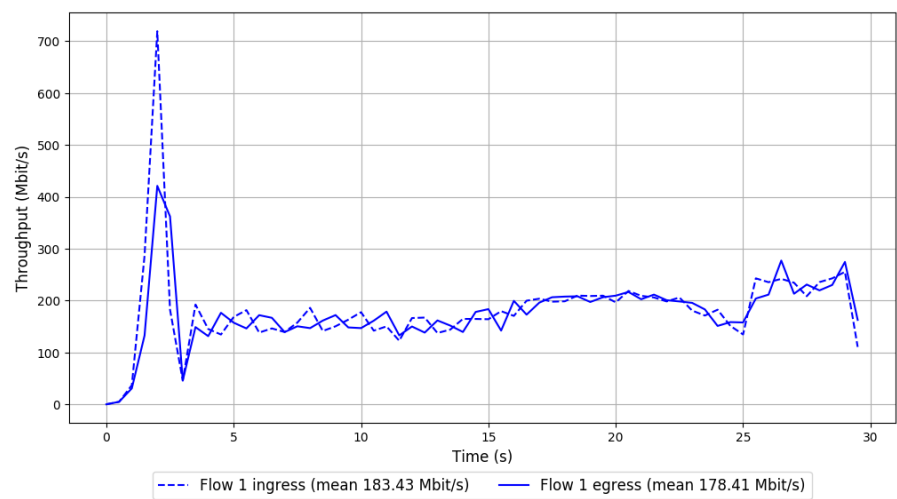
-- Flow 1:

Average throughput: 178.41 Mbit/s

95th percentile per-packet one-way delay: 165.393 ms

Loss rate: 2.56%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-01-16 00:43:18

End at: 2018-01-16 00:43:48

Below is generated by plot.py at 2018-01-16 04:03:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.09 Mbit/s

95th percentile per-packet one-way delay: 138.020 ms

Loss rate: 0.00%

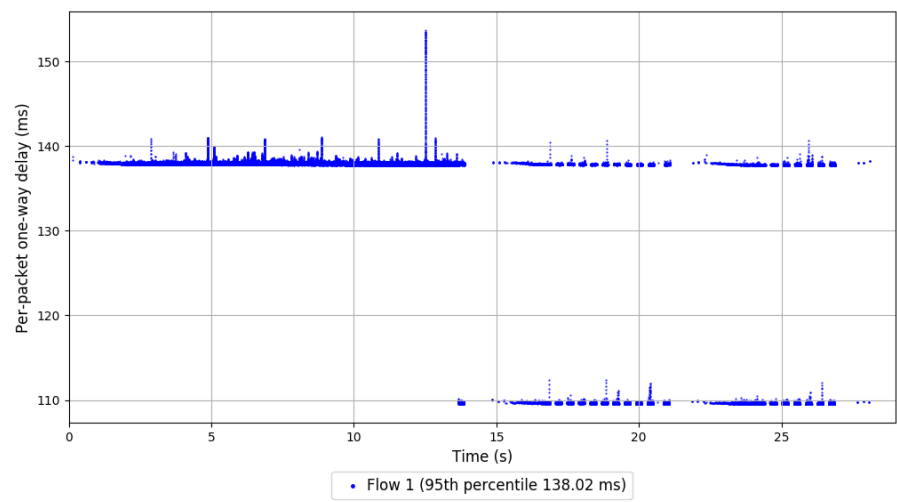
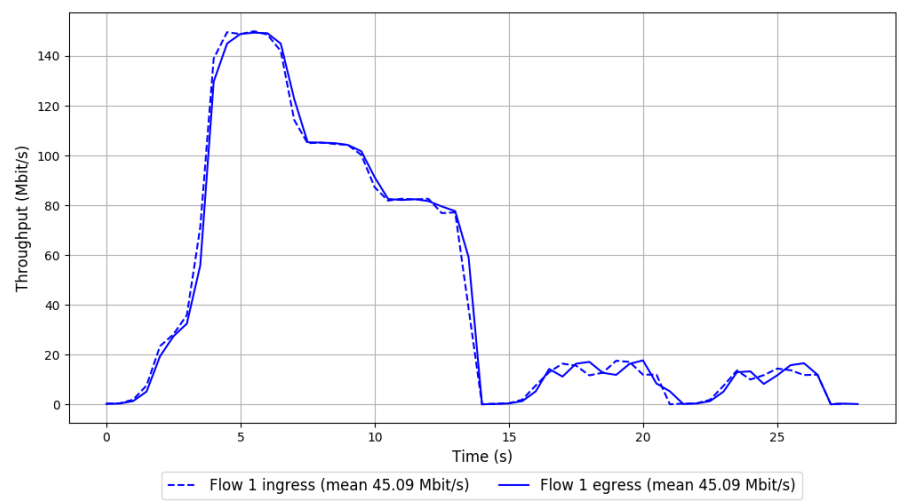
-- Flow 1:

Average throughput: 45.09 Mbit/s

95th percentile per-packet one-way delay: 138.020 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-16 00:55:20

End at: 2018-01-16 00:55:50

Below is generated by plot.py at 2018-01-16 04:03:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.73 Mbit/s

95th percentile per-packet one-way delay: 109.997 ms

Loss rate: 0.00%

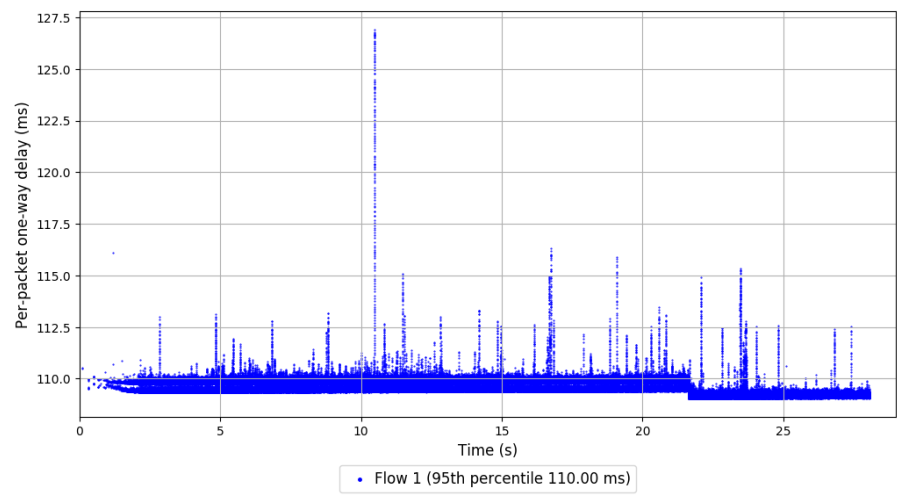
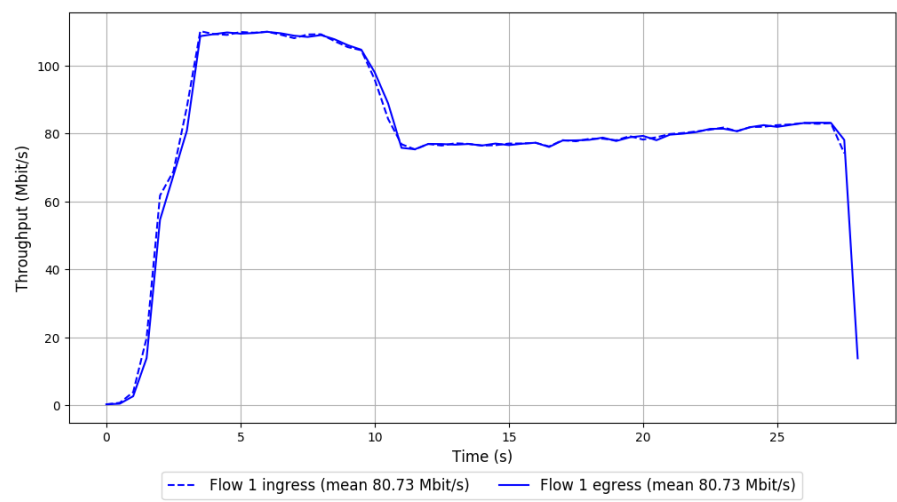
-- Flow 1:

Average throughput: 80.73 Mbit/s

95th percentile per-packet one-way delay: 109.997 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-16 01:07:30

End at: 2018-01-16 01:08:00

Below is generated by plot.py at 2018-01-16 04:03:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.92 Mbit/s

95th percentile per-packet one-way delay: 113.873 ms

Loss rate: 0.05%

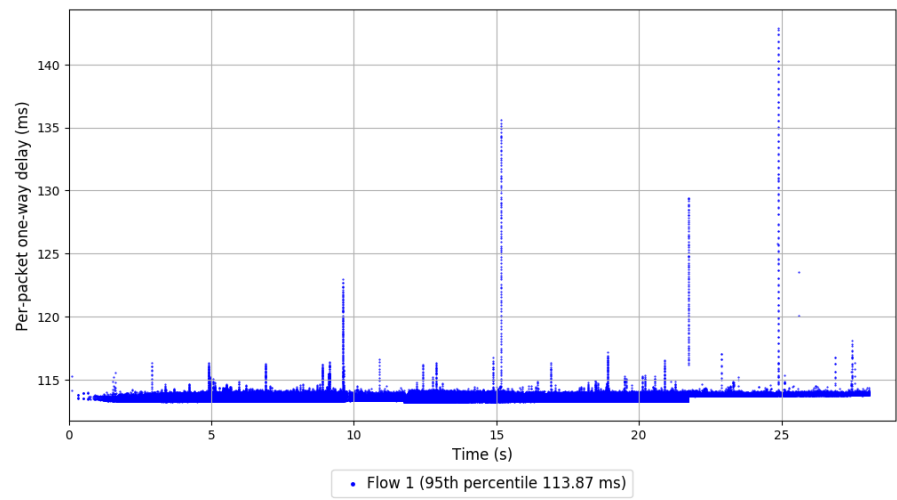
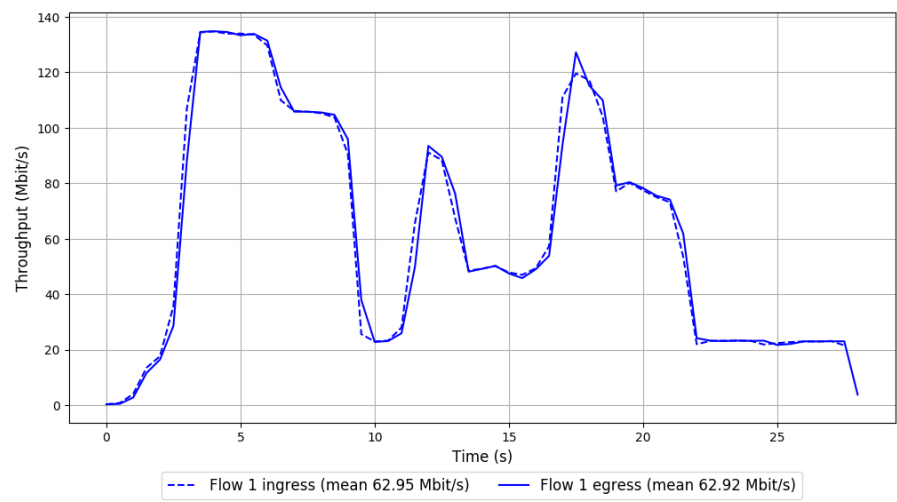
-- Flow 1:

Average throughput: 62.92 Mbit/s

95th percentile per-packet one-way delay: 113.873 ms

Loss rate: 0.05%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-16 01:19:30

End at: 2018-01-16 01:20:00

Below is generated by plot.py at 2018-01-16 04:03:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.60 Mbit/s

95th percentile per-packet one-way delay: 106.855 ms

Loss rate: 0.00%

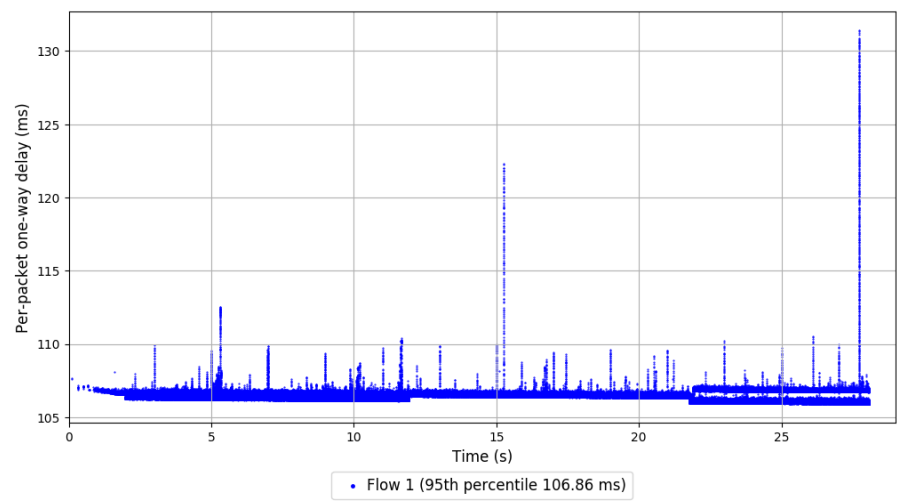
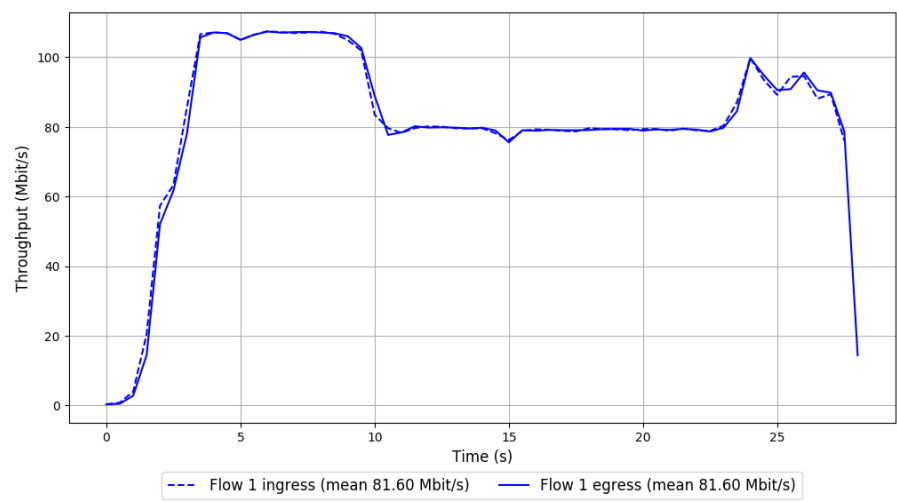
-- Flow 1:

Average throughput: 81.60 Mbit/s

95th percentile per-packet one-way delay: 106.855 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-16 01:31:25

End at: 2018-01-16 01:31:55

Below is generated by plot.py at 2018-01-16 04:03:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.84 Mbit/s

95th percentile per-packet one-way delay: 102.278 ms

Loss rate: 0.00%

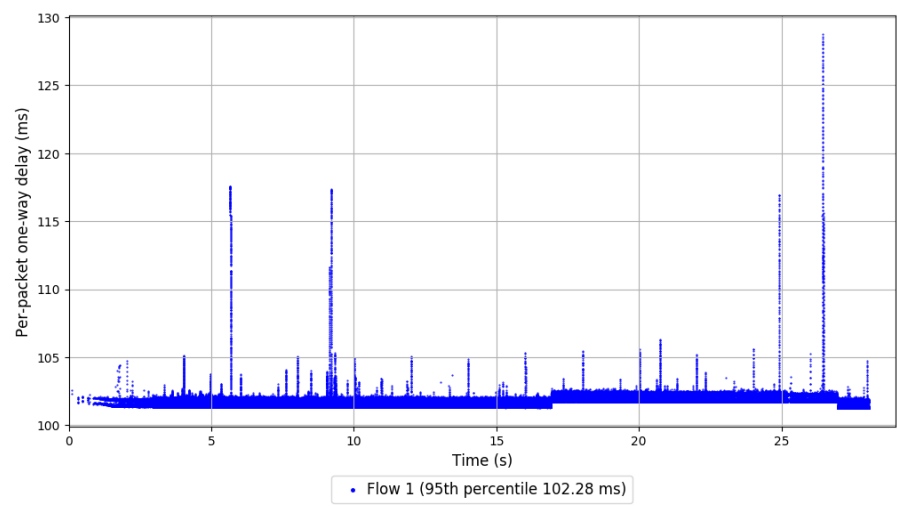
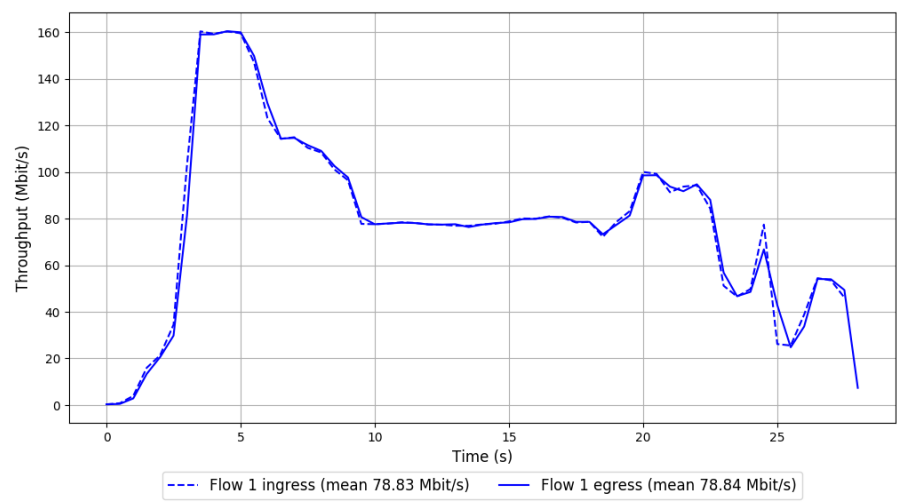
-- Flow 1:

Average throughput: 78.84 Mbit/s

95th percentile per-packet one-way delay: 102.278 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-16 01:43:33

End at: 2018-01-16 01:44:03

Below is generated by plot.py at 2018-01-16 04:03:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.43 Mbit/s

95th percentile per-packet one-way delay: 101.309 ms

Loss rate: 0.00%

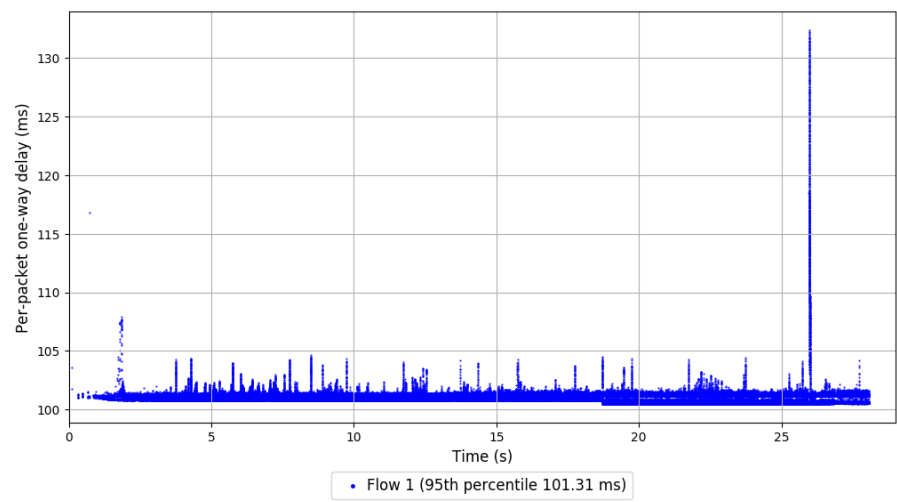
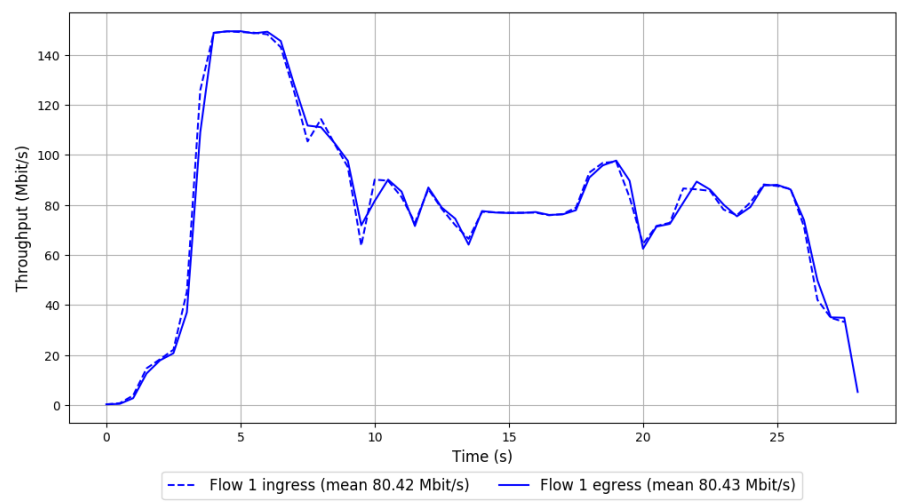
-- Flow 1:

Average throughput: 80.43 Mbit/s

95th percentile per-packet one-way delay: 101.309 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-16 01:55:37

End at: 2018-01-16 01:56:07

Below is generated by plot.py at 2018-01-16 04:04:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.86 Mbit/s

95th percentile per-packet one-way delay: 96.308 ms

Loss rate: 0.00%

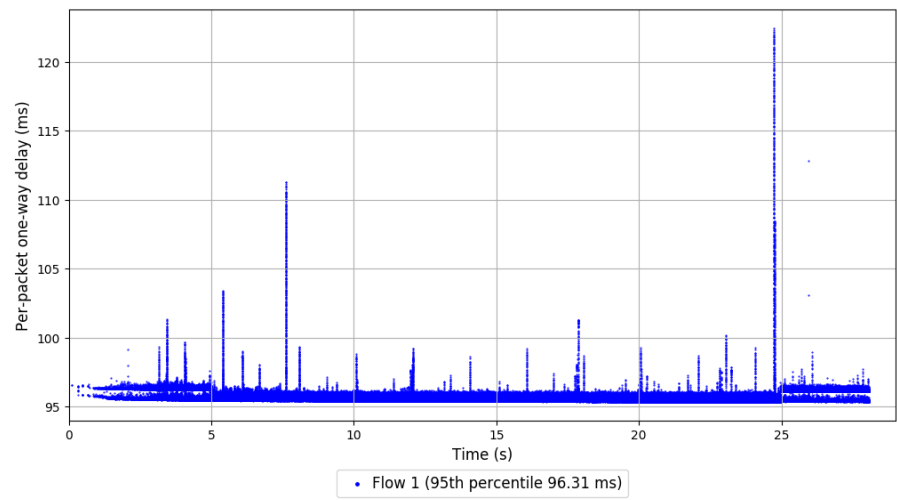
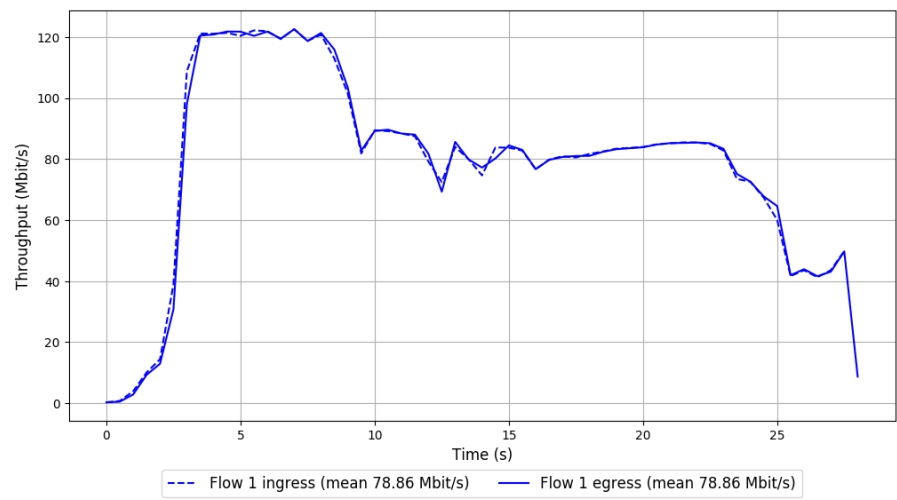
-- Flow 1:

Average throughput: 78.86 Mbit/s

95th percentile per-packet one-way delay: 96.308 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-16 02:07:35

End at: 2018-01-16 02:08:05

Below is generated by plot.py at 2018-01-16 04:05:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.06 Mbit/s

95th percentile per-packet one-way delay: 94.315 ms

Loss rate: 0.00%

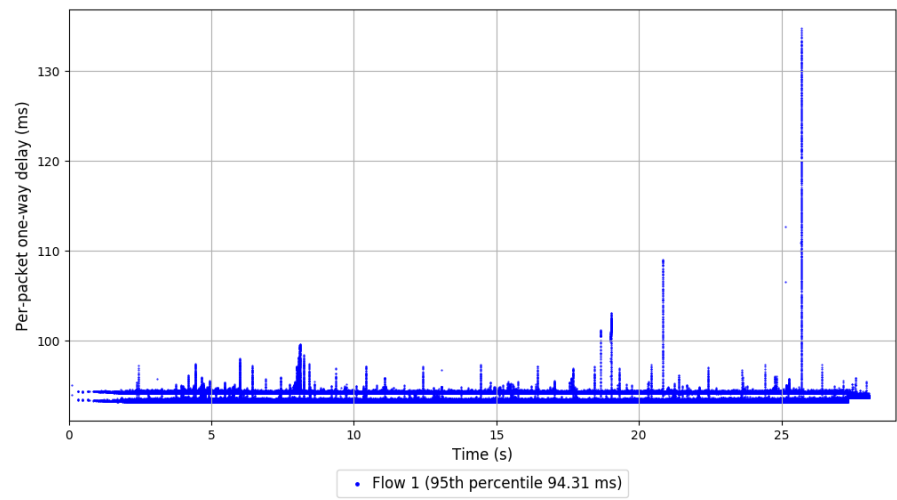
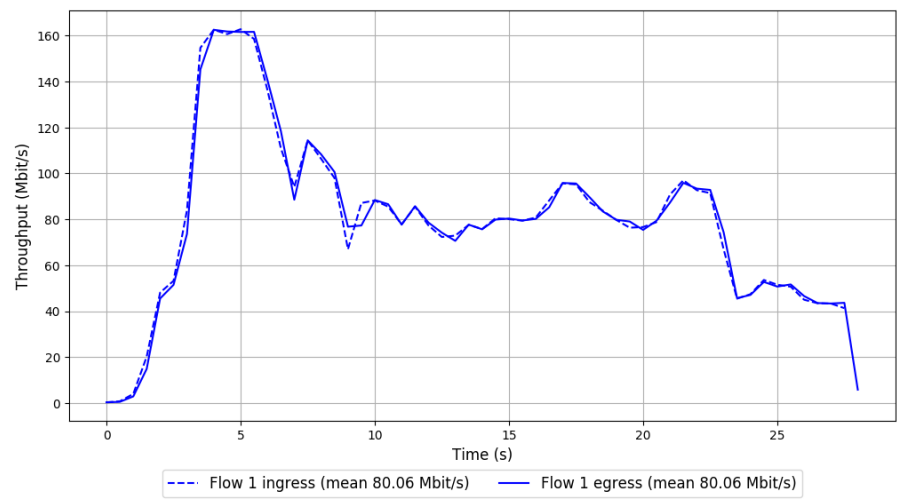
-- Flow 1:

Average throughput: 80.06 Mbit/s

95th percentile per-packet one-way delay: 94.315 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-16 02:19:36

End at: 2018-01-16 02:20:06

Below is generated by plot.py at 2018-01-16 04:05:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.96 Mbit/s

95th percentile per-packet one-way delay: 93.435 ms

Loss rate: 0.00%

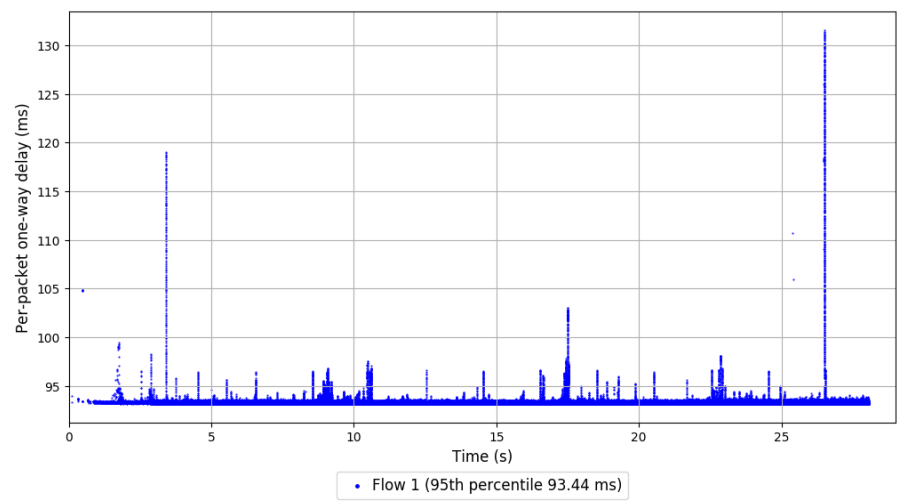
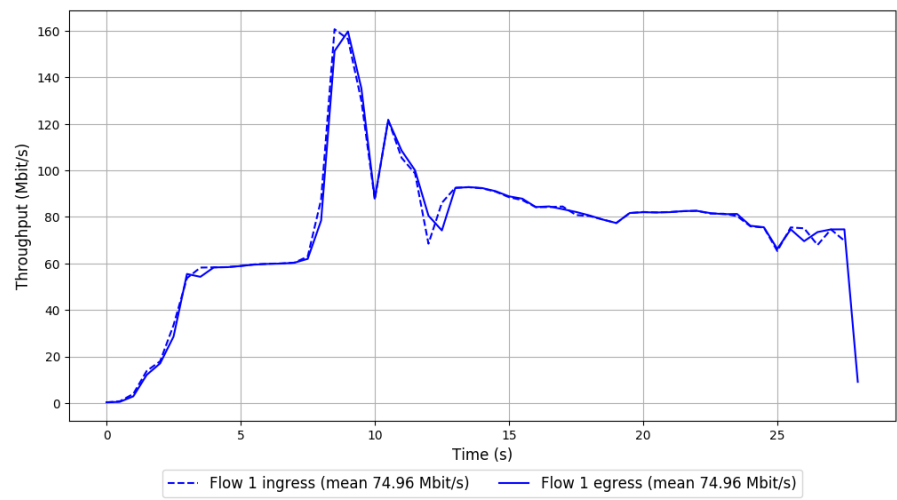
-- Flow 1:

Average throughput: 74.96 Mbit/s

95th percentile per-packet one-way delay: 93.435 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-16 02:31:43

End at: 2018-01-16 02:32:13

Below is generated by plot.py at 2018-01-16 04:05:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.25 Mbit/s

95th percentile per-packet one-way delay: 92.623 ms

Loss rate: 0.00%

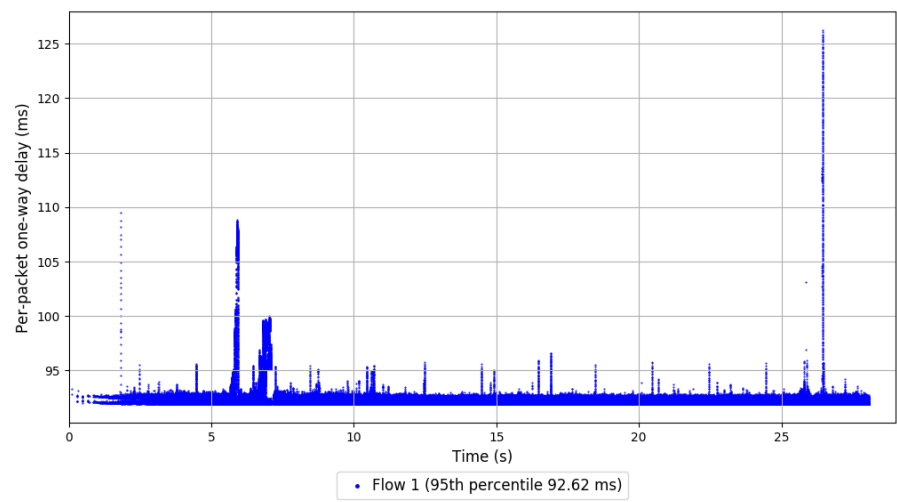
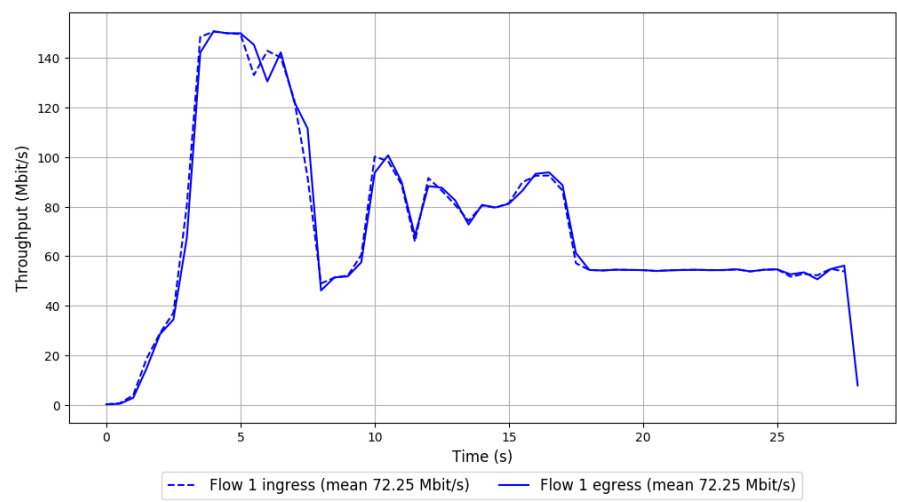
-- Flow 1:

Average throughput: 72.25 Mbit/s

95th percentile per-packet one-way delay: 92.623 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

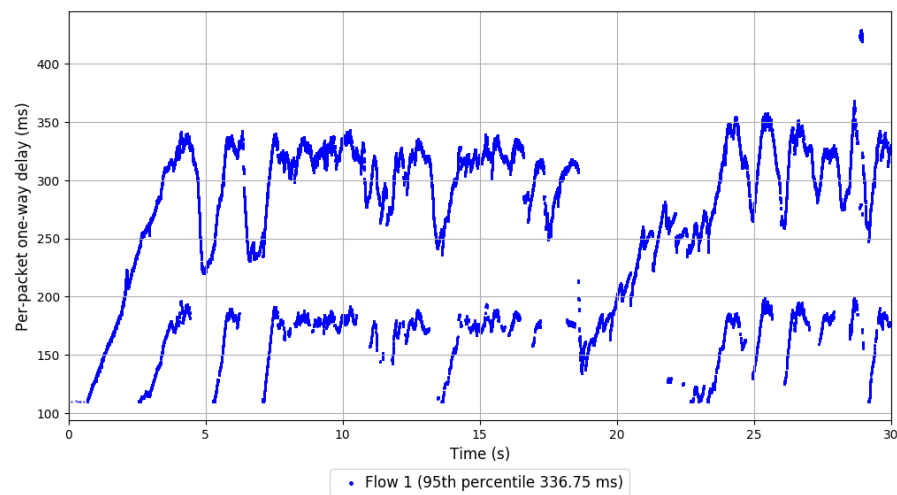
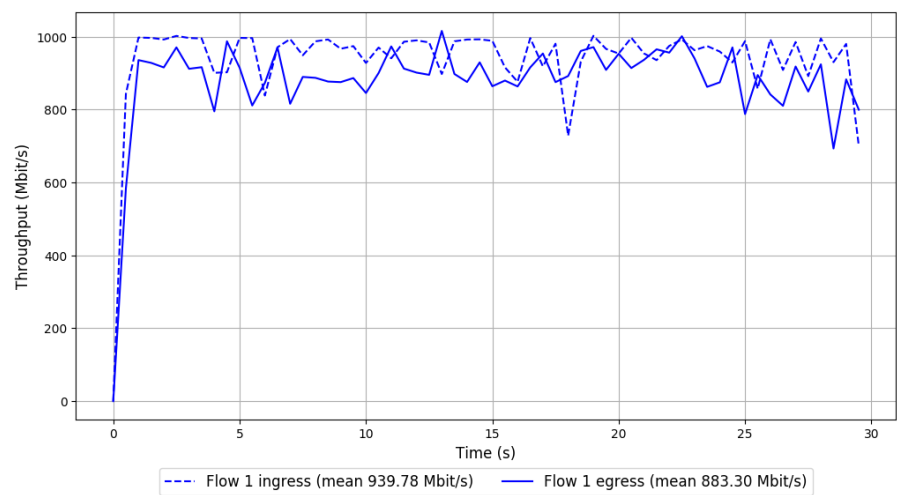


```
Run 1: Statistics of FillP

Start at: 2018-01-16 00:45:23
End at: 2018-01-16 00:45:53

# Below is generated by plot.py at 2018-01-16 04:19:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 883.30 Mbit/s
95th percentile per-packet one-way delay: 336.752 ms
Loss rate: 6.01%
-- Flow 1:
Average throughput: 883.30 Mbit/s
95th percentile per-packet one-way delay: 336.752 ms
Loss rate: 6.01%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-01-16 00:57:33

End at: 2018-01-16 00:58:03

Below is generated by plot.py at 2018-01-16 04:19:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 823.30 Mbit/s

95th percentile per-packet one-way delay: 359.056 ms

Loss rate: 9.47%

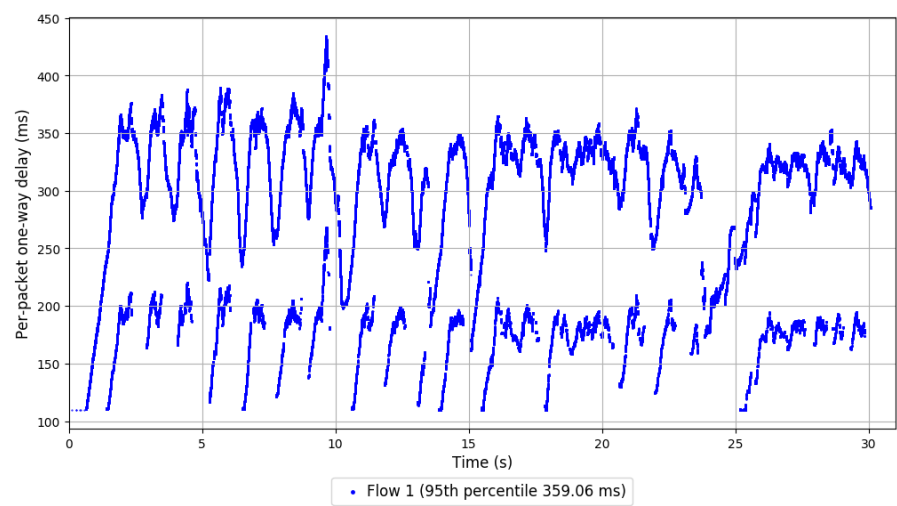
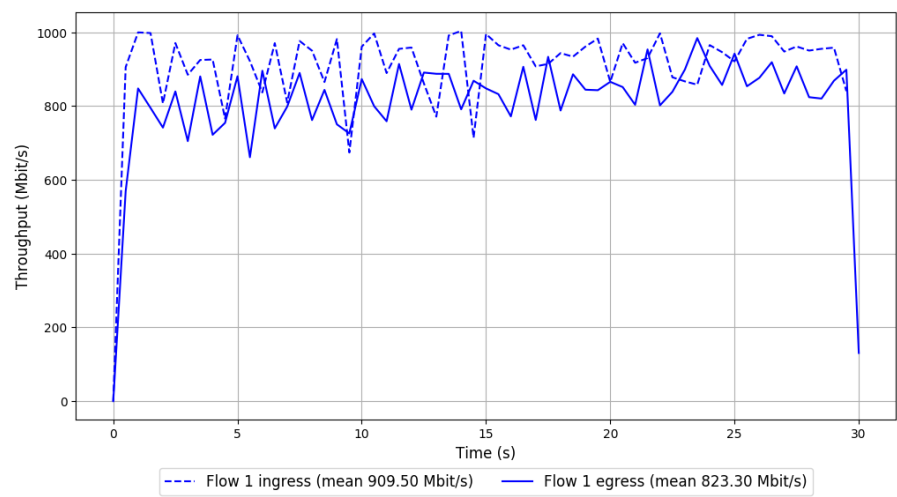
-- Flow 1:

Average throughput: 823.30 Mbit/s

95th percentile per-packet one-way delay: 359.056 ms

Loss rate: 9.47%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-16 01:09:40

End at: 2018-01-16 01:10:10

Below is generated by plot.py at 2018-01-16 04:19:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 837.08 Mbit/s

95th percentile per-packet one-way delay: 355.651 ms

Loss rate: 9.36%

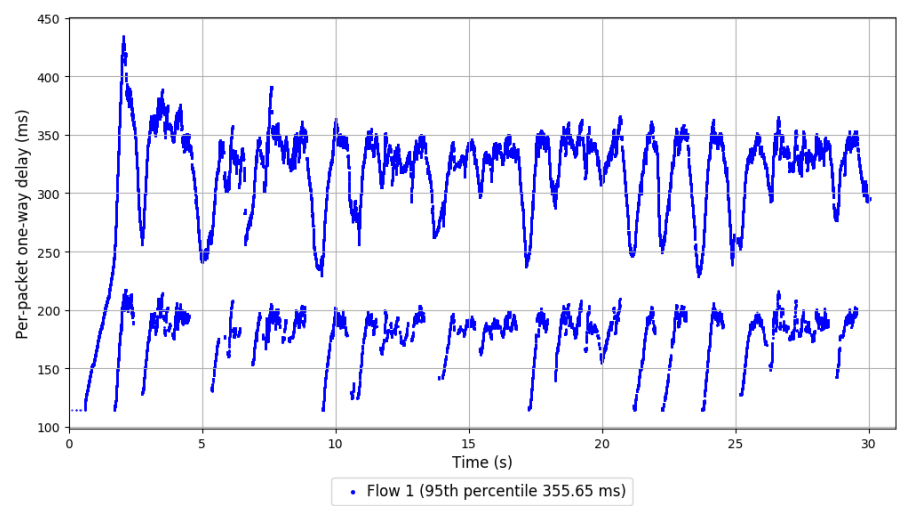
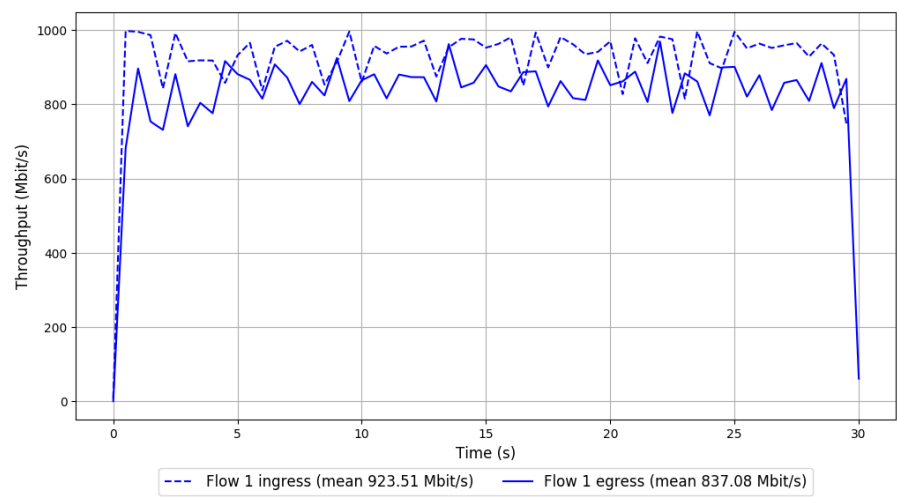
-- Flow 1:

Average throughput: 837.08 Mbit/s

95th percentile per-packet one-way delay: 355.651 ms

Loss rate: 9.36%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-01-16 01:21:42

End at: 2018-01-16 01:22:12

Below is generated by plot.py at 2018-01-16 04:19:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 782.02 Mbit/s

95th percentile per-packet one-way delay: 345.419 ms

Loss rate: 11.53%

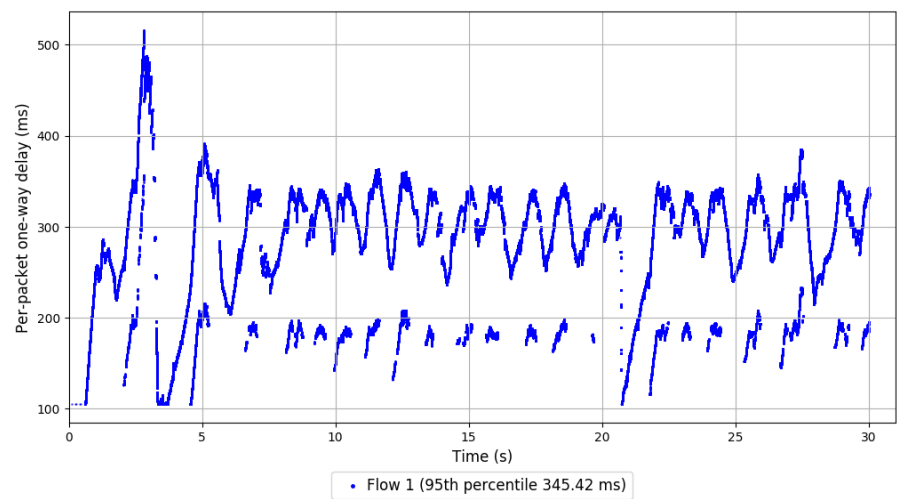
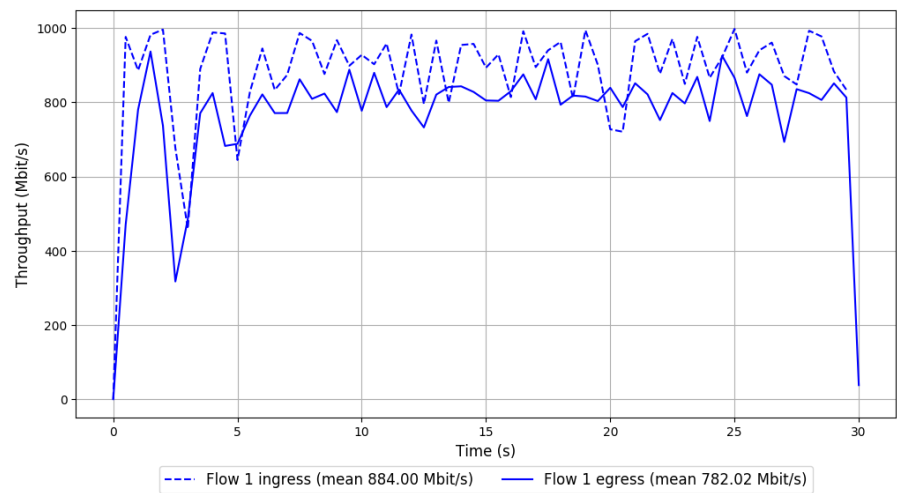
-- Flow 1:

Average throughput: 782.02 Mbit/s

95th percentile per-packet one-way delay: 345.419 ms

Loss rate: 11.53%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-16 01:33:35

End at: 2018-01-16 01:34:05

Below is generated by plot.py at 2018-01-16 04:19:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 746.79 Mbit/s

95th percentile per-packet one-way delay: 366.144 ms

Loss rate: 14.20%

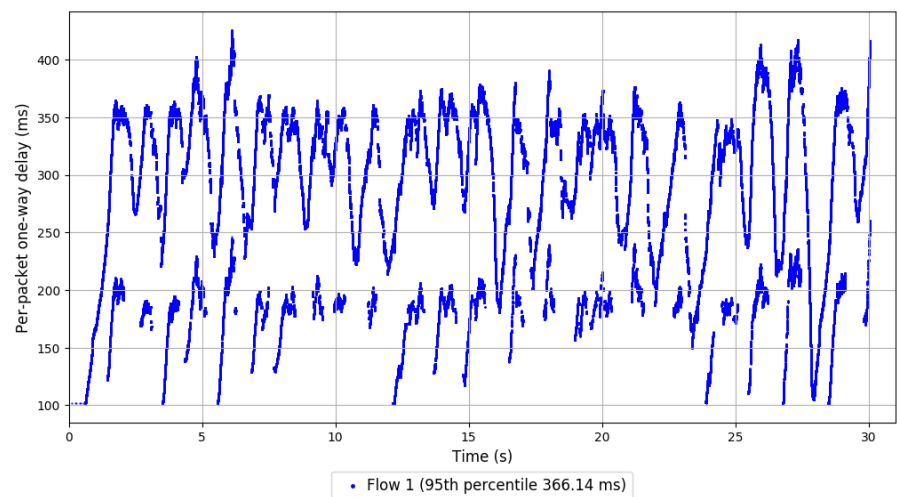
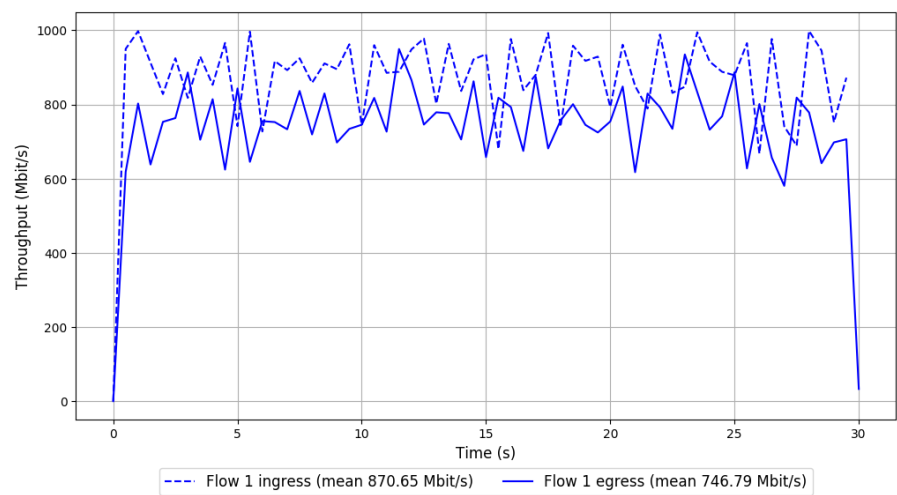
-- Flow 1:

Average throughput: 746.79 Mbit/s

95th percentile per-packet one-way delay: 366.144 ms

Loss rate: 14.20%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-16 01:45:45

End at: 2018-01-16 01:46:15

Below is generated by plot.py at 2018-01-16 04:20:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 854.01 Mbit/s

95th percentile per-packet one-way delay: 332.578 ms

Loss rate: 6.29%

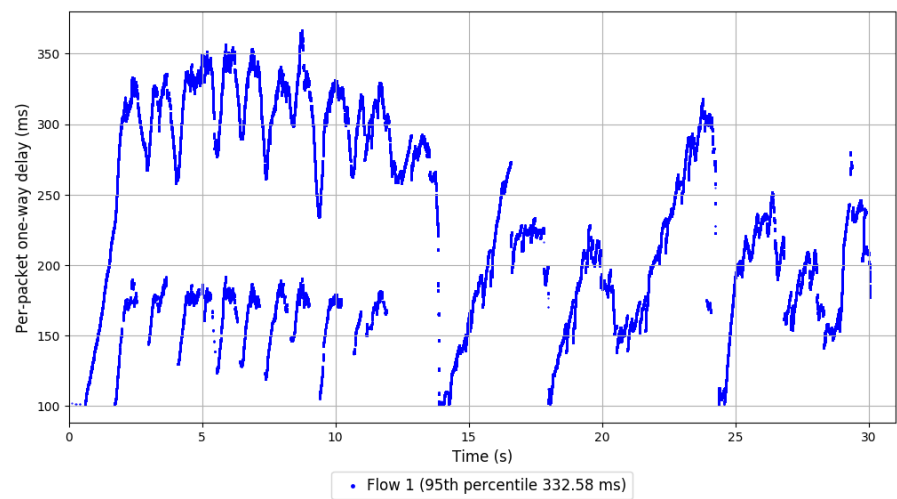
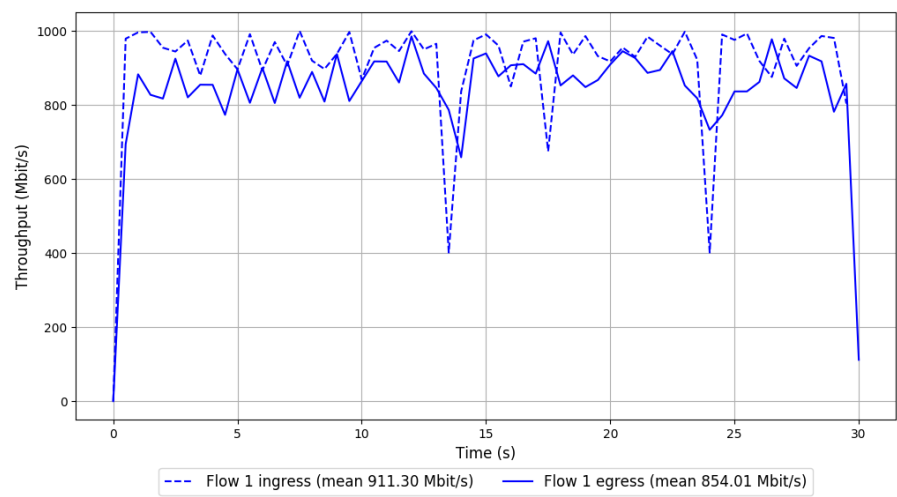
-- Flow 1:

Average throughput: 854.01 Mbit/s

95th percentile per-packet one-way delay: 332.578 ms

Loss rate: 6.29%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-01-16 01:57:49

End at: 2018-01-16 01:58:19

Below is generated by plot.py at 2018-01-16 04:21:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 907.83 Mbit/s

95th percentile per-packet one-way delay: 302.098 ms

Loss rate: 2.37%

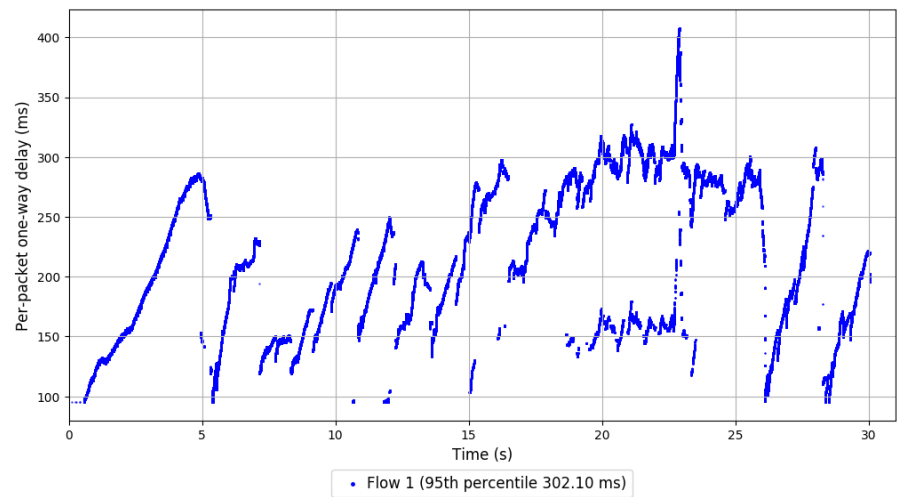
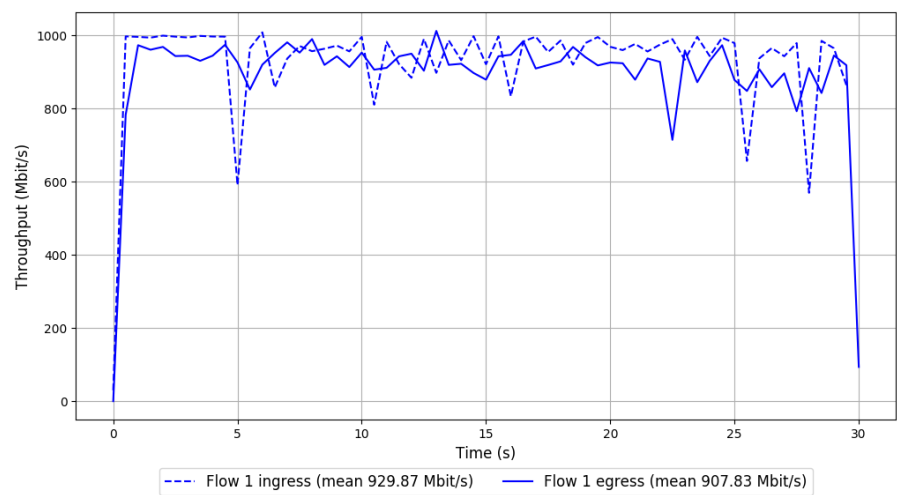
-- Flow 1:

Average throughput: 907.83 Mbit/s

95th percentile per-packet one-way delay: 302.098 ms

Loss rate: 2.37%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-01-16 02:09:48

End at: 2018-01-16 02:10:18

Below is generated by plot.py at 2018-01-16 04:21:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 624.75 Mbit/s

95th percentile per-packet one-way delay: 322.946 ms

Loss rate: 5.48%

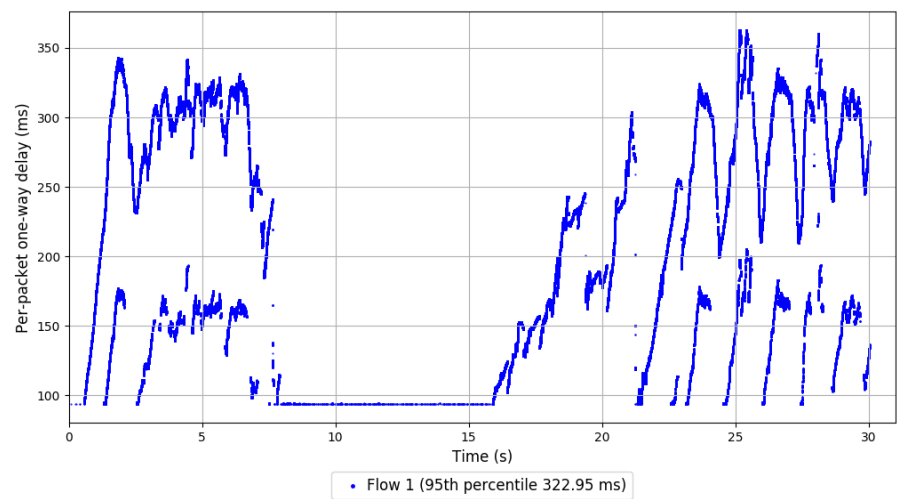
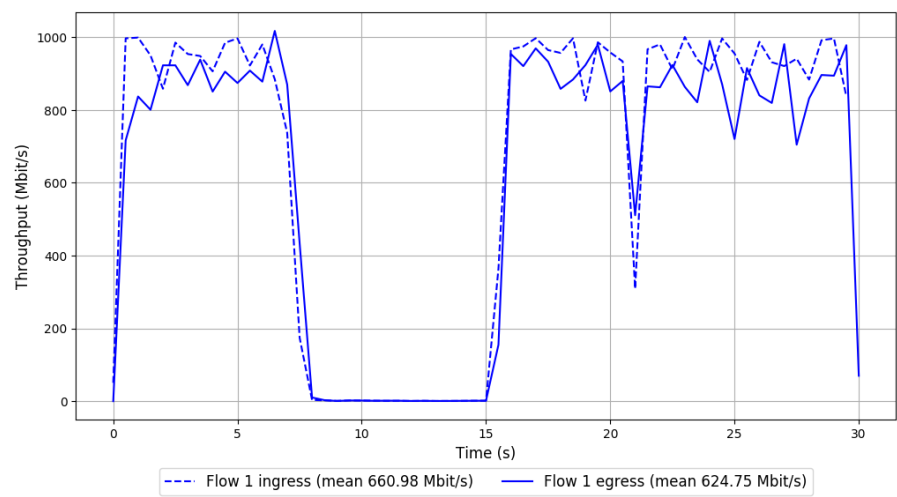
-- Flow 1:

Average throughput: 624.75 Mbit/s

95th percentile per-packet one-way delay: 322.946 ms

Loss rate: 5.48%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-01-16 02:21:48

End at: 2018-01-16 02:22:18

Below is generated by plot.py at 2018-01-16 04:25:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 962.49 Mbit/s

95th percentile per-packet one-way delay: 293.091 ms

Loss rate: 0.96%

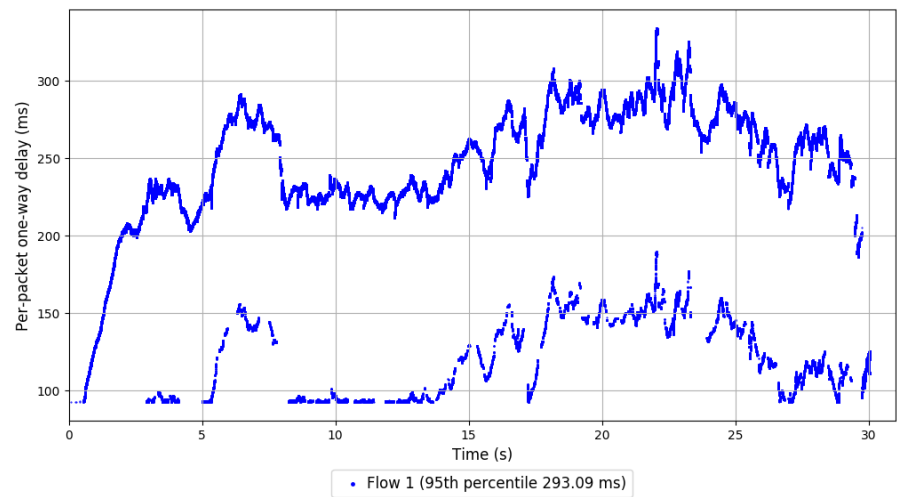
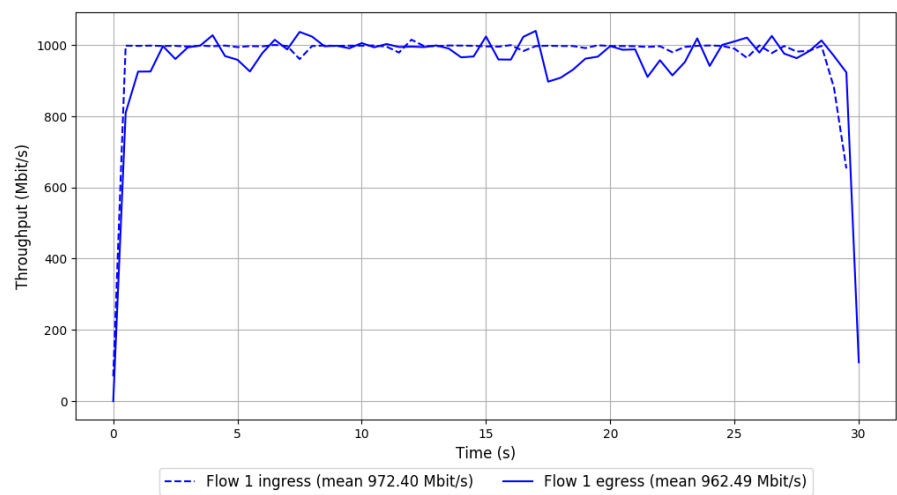
-- Flow 1:

Average throughput: 962.49 Mbit/s

95th percentile per-packet one-way delay: 293.091 ms

Loss rate: 0.96%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-01-16 02:33:57

End at: 2018-01-16 02:34:27

Below is generated by plot.py at 2018-01-16 04:25:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 857.67 Mbit/s

95th percentile per-packet one-way delay: 327.411 ms

Loss rate: 7.47%

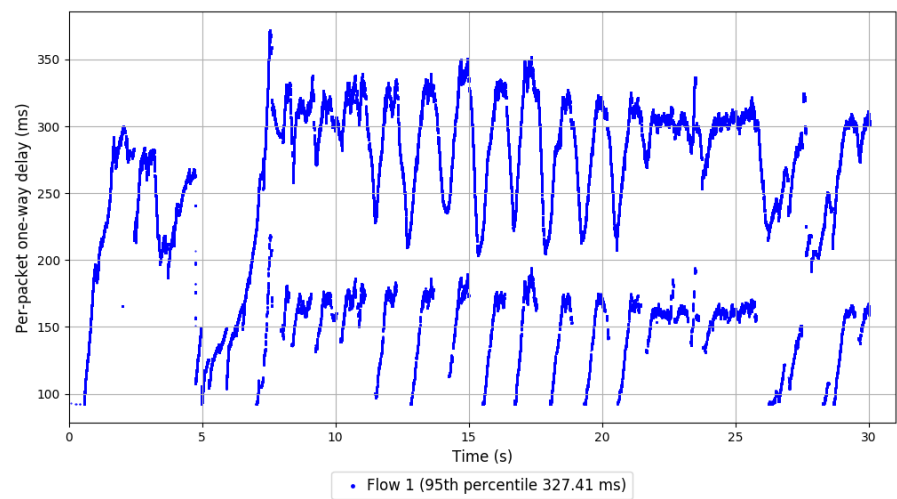
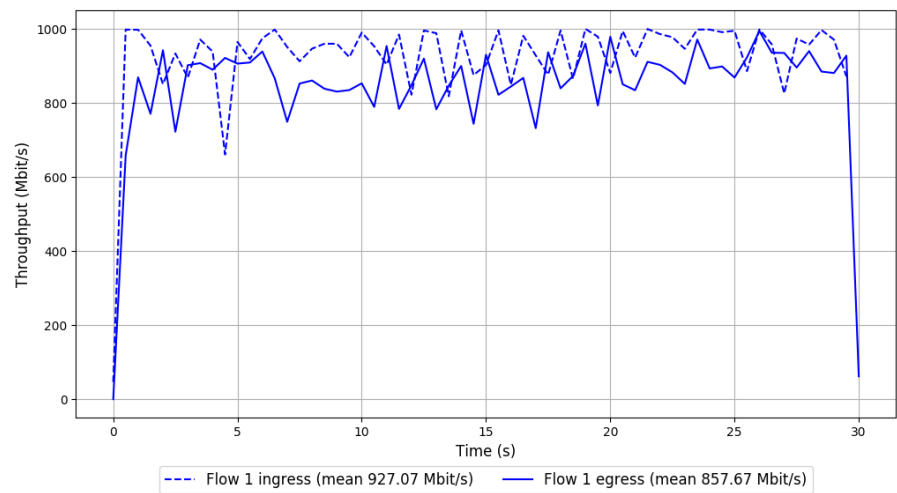
-- Flow 1:

Average throughput: 857.67 Mbit/s

95th percentile per-packet one-way delay: 327.411 ms

Loss rate: 7.47%

Run 10: Report of FillP — Data Link

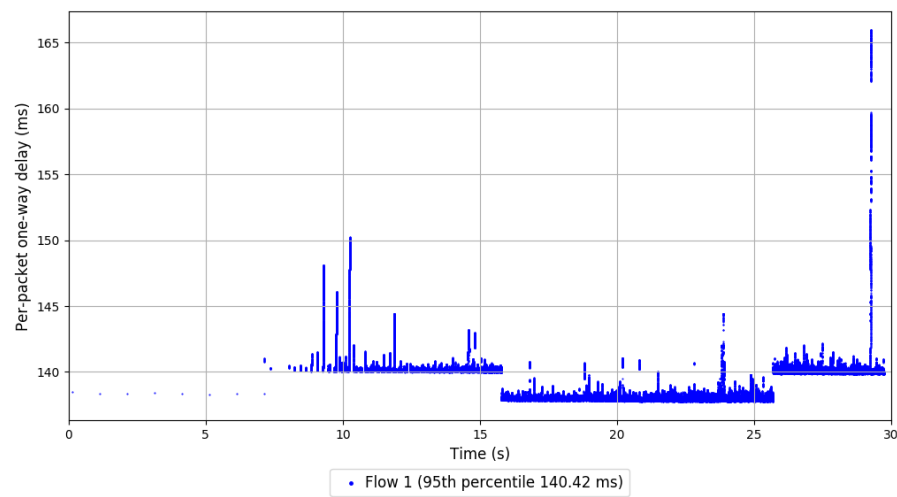
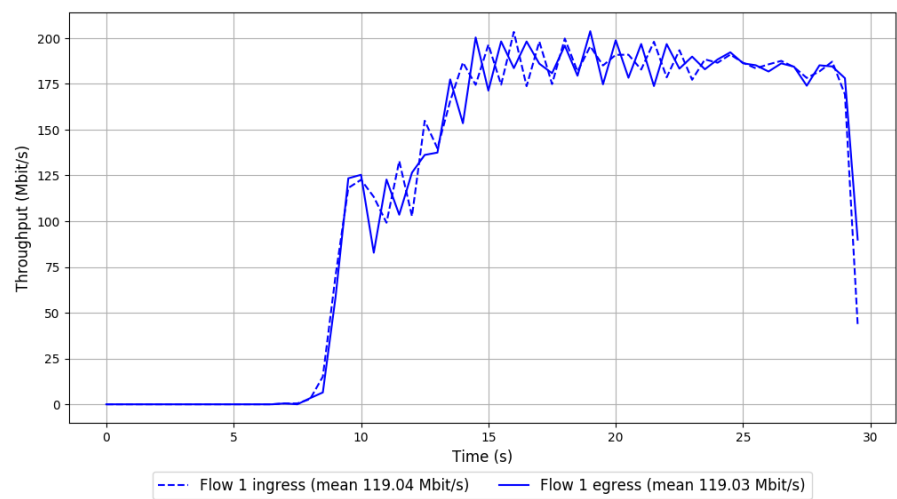


```
Run 1: Statistics of Indigo

Start at: 2018-01-16 00:38:38
End at: 2018-01-16 00:39:08

# Below is generated by plot.py at 2018-01-16 04:25:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 119.03 Mbit/s
95th percentile per-packet one-way delay: 140.416 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 119.03 Mbit/s
95th percentile per-packet one-way delay: 140.416 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-01-16 00:50:19

End at: 2018-01-16 00:50:49

Below is generated by plot.py at 2018-01-16 04:25:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.86 Mbit/s

95th percentile per-packet one-way delay: 110.097 ms

Loss rate: 0.09%

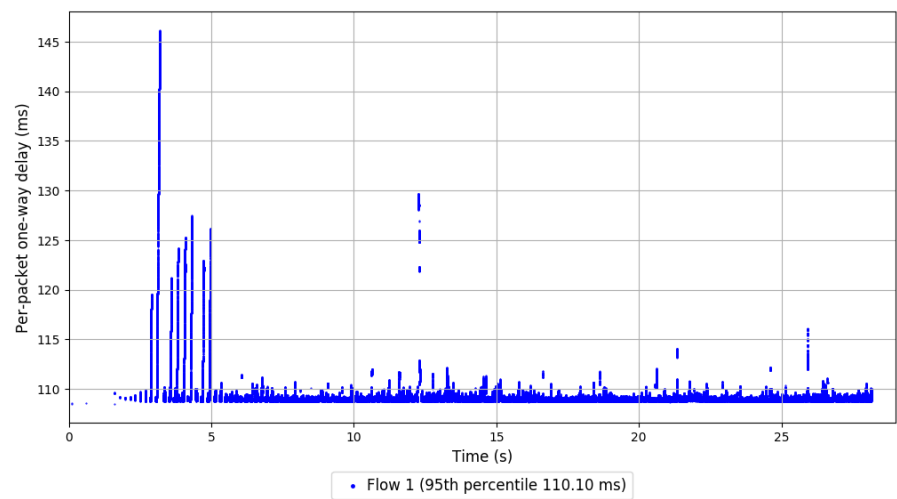
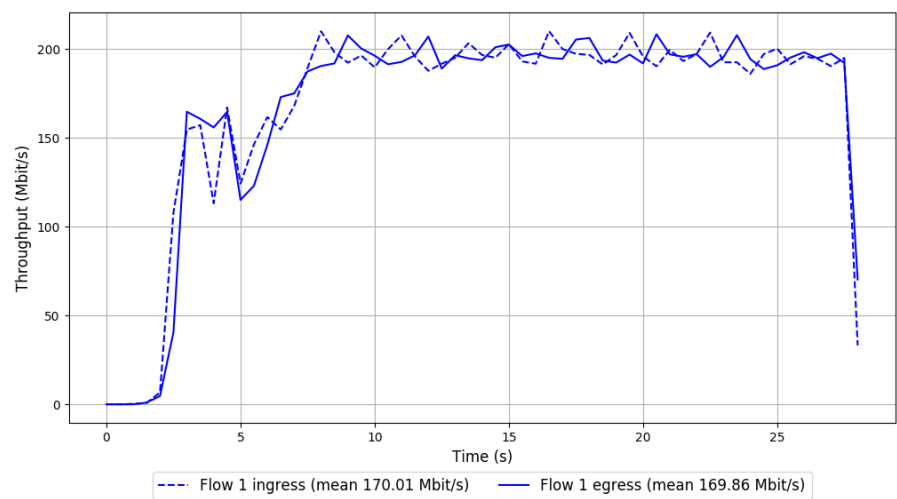
-- Flow 1:

Average throughput: 169.86 Mbit/s

95th percentile per-packet one-way delay: 110.097 ms

Loss rate: 0.09%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-01-16 01:02:27

End at: 2018-01-16 01:02:57

Below is generated by plot.py at 2018-01-16 04:25:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.65 Mbit/s

95th percentile per-packet one-way delay: 112.436 ms

Loss rate: 0.15%

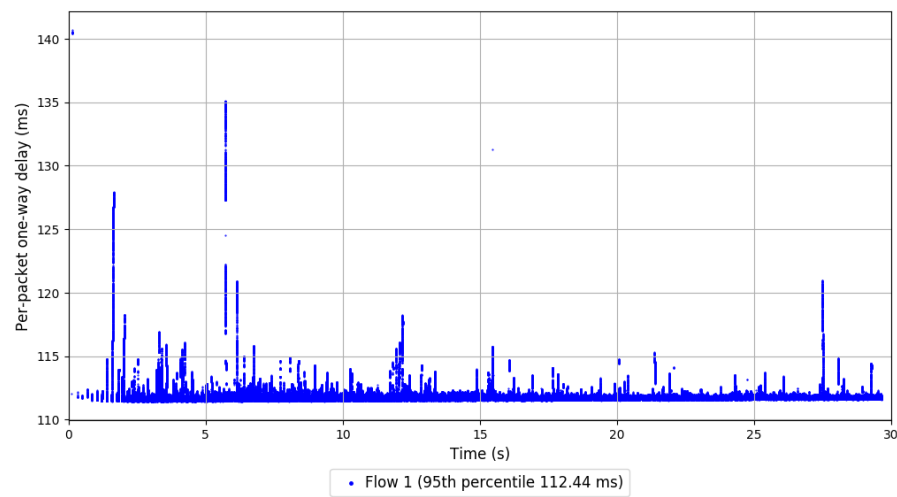
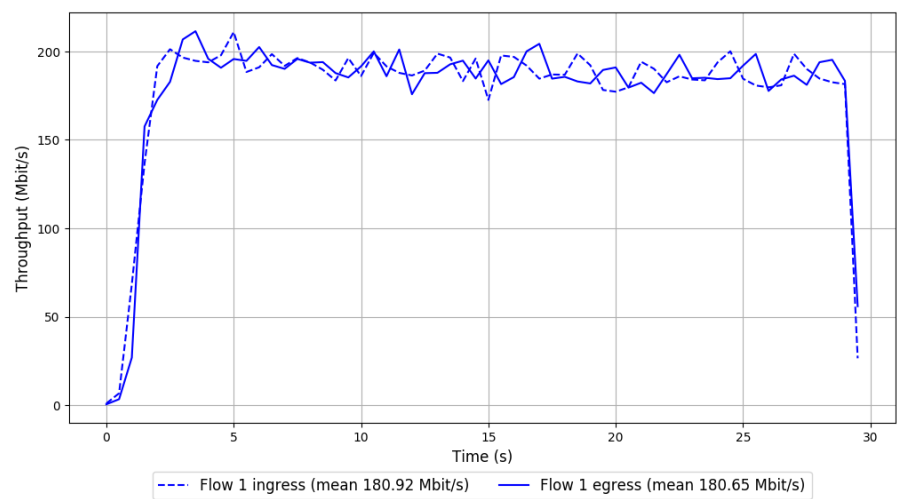
-- Flow 1:

Average throughput: 180.65 Mbit/s

95th percentile per-packet one-way delay: 112.436 ms

Loss rate: 0.15%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-01-16 01:14:36

End at: 2018-01-16 01:15:06

Below is generated by plot.py at 2018-01-16 04:25:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.22 Mbit/s

95th percentile per-packet one-way delay: 111.435 ms

Loss rate: 0.10%

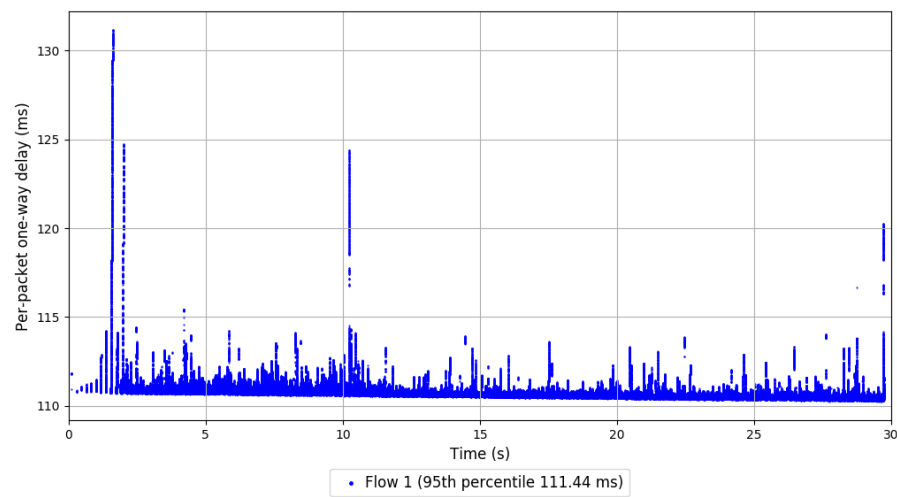
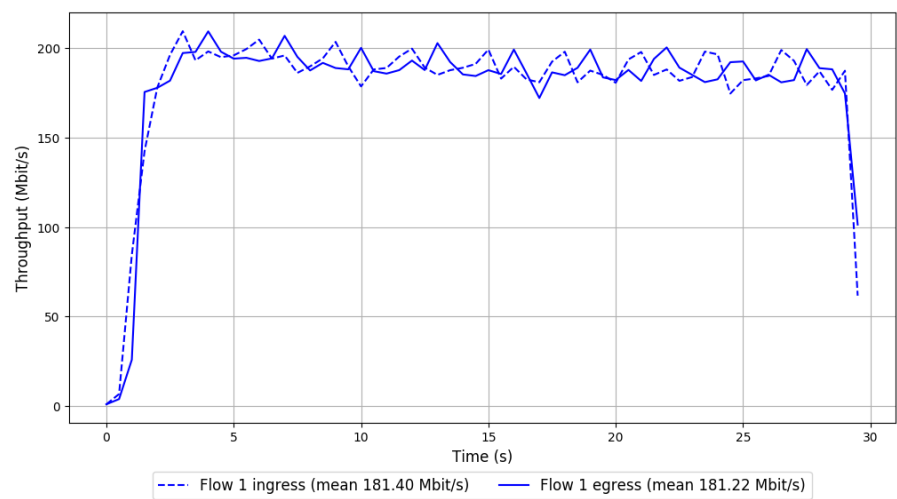
-- Flow 1:

Average throughput: 181.22 Mbit/s

95th percentile per-packet one-way delay: 111.435 ms

Loss rate: 0.10%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-01-16 01:26:33

End at: 2018-01-16 01:27:03

Below is generated by plot.py at 2018-01-16 04:25:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.59 Mbit/s

95th percentile per-packet one-way delay: 104.233 ms

Loss rate: 0.09%

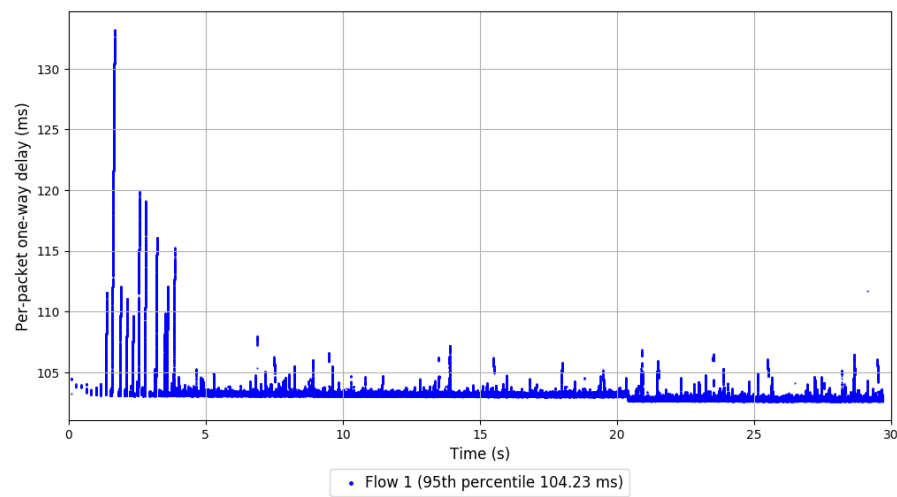
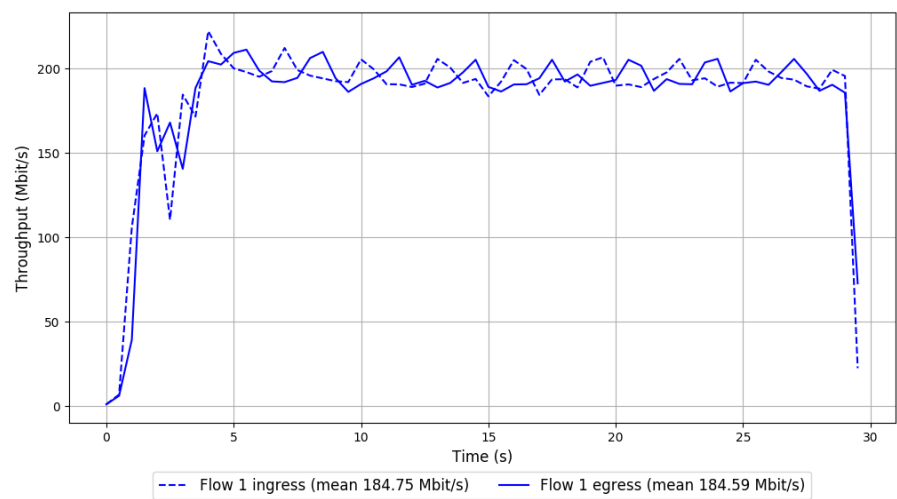
-- Flow 1:

Average throughput: 184.59 Mbit/s

95th percentile per-packet one-way delay: 104.233 ms

Loss rate: 0.09%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-01-16 01:38:30

End at: 2018-01-16 01:39:00

Below is generated by plot.py at 2018-01-16 04:25:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.31 Mbit/s

95th percentile per-packet one-way delay: 102.026 ms

Loss rate: 0.00%

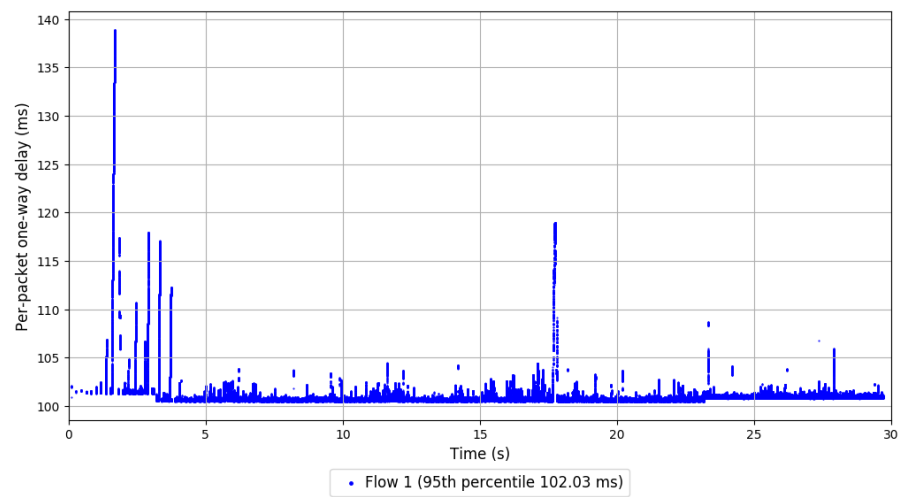
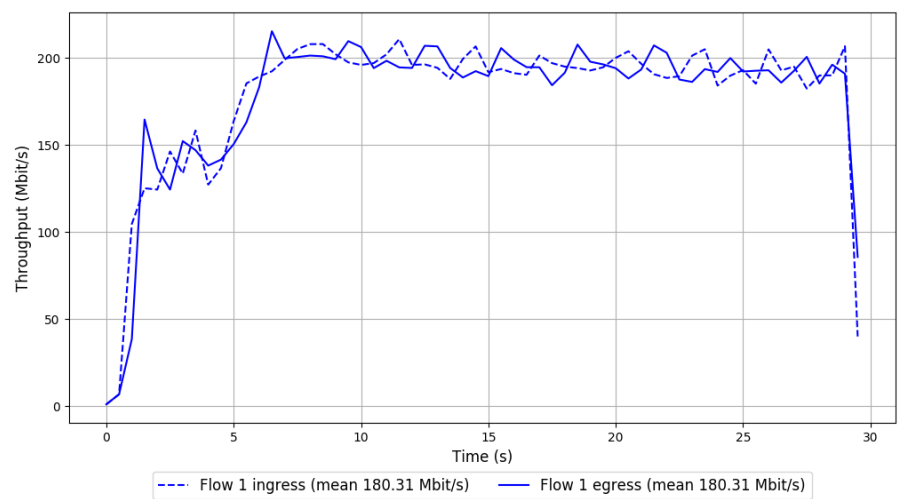
-- Flow 1:

Average throughput: 180.31 Mbit/s

95th percentile per-packet one-way delay: 102.026 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-01-16 01:50:41

End at: 2018-01-16 01:51:11

Below is generated by plot.py at 2018-01-16 04:25:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.94 Mbit/s

95th percentile per-packet one-way delay: 98.898 ms

Loss rate: 0.12%

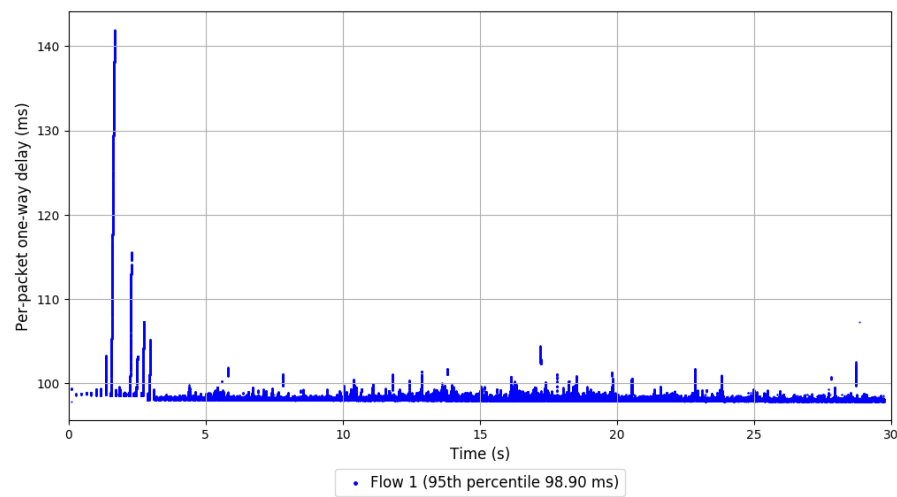
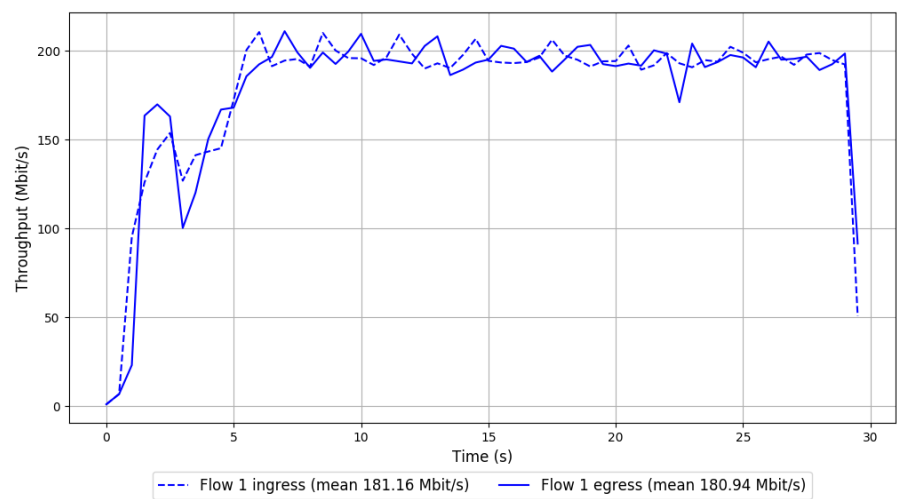
-- Flow 1:

Average throughput: 180.94 Mbit/s

95th percentile per-packet one-way delay: 98.898 ms

Loss rate: 0.12%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-01-16 02:02:42

End at: 2018-01-16 02:03:12

Below is generated by plot.py at 2018-01-16 04:25:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.32 Mbit/s

95th percentile per-packet one-way delay: 95.561 ms

Loss rate: 0.00%

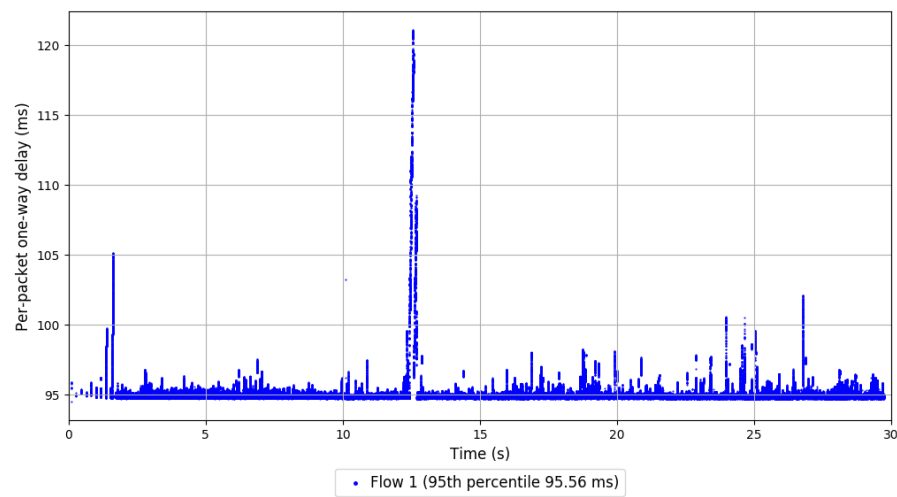
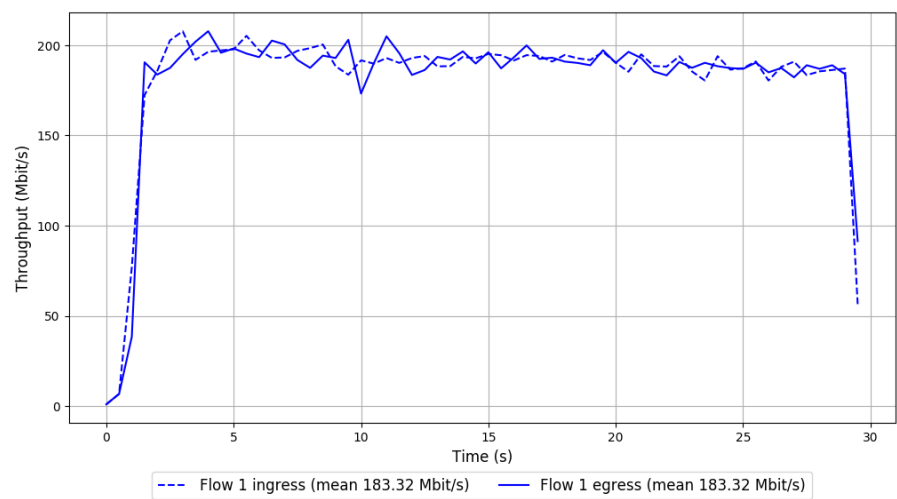
-- Flow 1:

Average throughput: 183.32 Mbit/s

95th percentile per-packet one-way delay: 95.561 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-01-16 02:14:36

End at: 2018-01-16 02:15:06

Below is generated by plot.py at 2018-01-16 04:25:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.45 Mbit/s

95th percentile per-packet one-way delay: 94.240 ms

Loss rate: 0.00%

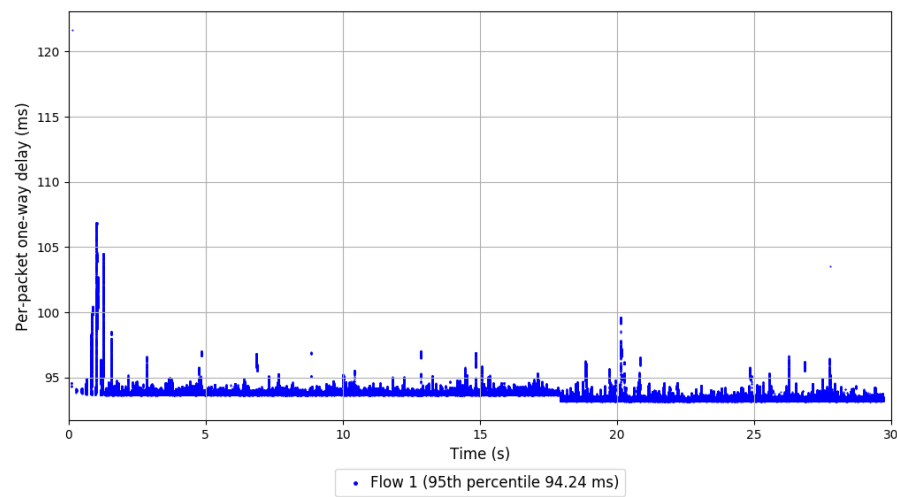
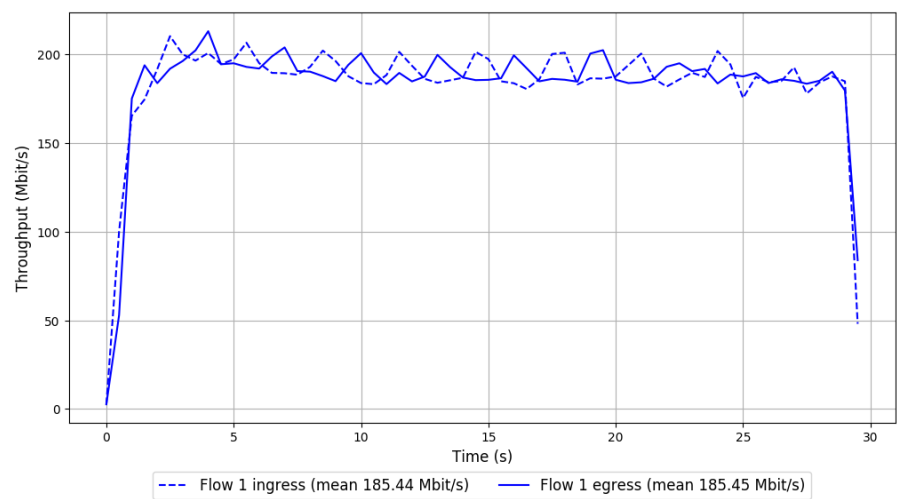
-- Flow 1:

Average throughput: 185.45 Mbit/s

95th percentile per-packet one-way delay: 94.240 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-16 02:26:43

End at: 2018-01-16 02:27:14

Below is generated by plot.py at 2018-01-16 04:25:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.07 Mbit/s

95th percentile per-packet one-way delay: 93.116 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 181.07 Mbit/s

95th percentile per-packet one-way delay: 93.116 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

