

Pantheon Report

Generated at 2018-01-26 03:20:59 (UTC).

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

Repeated the test of 15 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

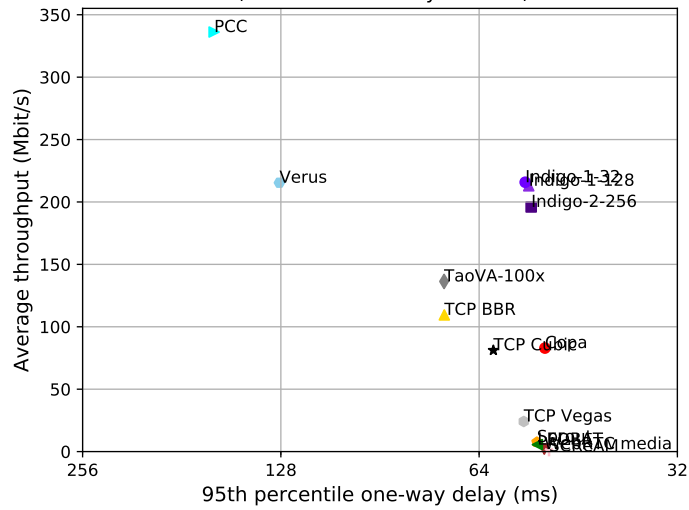
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

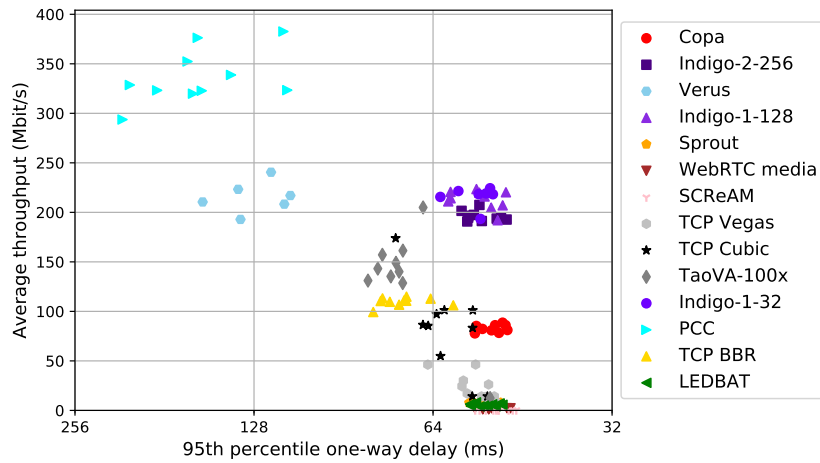
Git summary:

```
branch: master @ f23294ec38436c9f802847d477a41b7343ec76e6
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eae30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 423cbca3e8ea1d599e7b5cf725835e8a2b6bfac6
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	109.52	72.28	0.46
TCP Cubic	10	81.18	60.89	0.29
LEDBAT	10	5.57	52.21	1.24
PCC	10	336.15	161.63	0.77
QUIC Cubic	0	N/A	N/A	N/A
SCReAM	10	0.22	50.13	0.00
WebRTC media	9	1.96	50.96	0.00
Sprout	10	7.62	52.30	0.83
TaoVA-100x	10	136.32	72.34	0.13
TCP Vegas	10	24.12	54.76	0.45
Verus	6	215.40	128.66	1.19
Copa	9	82.94	50.85	0.04
Indigo-2-256	10	196.03	53.35	0.01
Indigo-1-32	7	215.81	54.48	0.26
Indigo-1-128	10	212.97	53.80	0.01

Run 1: Statistics of TCP BBR

Start at: 2018-01-26 00:02:11

End at: 2018-01-26 00:02:41

Below is generated by plot.py at 2018-01-26 02:45:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 110.48 Mbit/s

95th percentile per-packet one-way delay: 78.386 ms

Loss rate: 0.55%

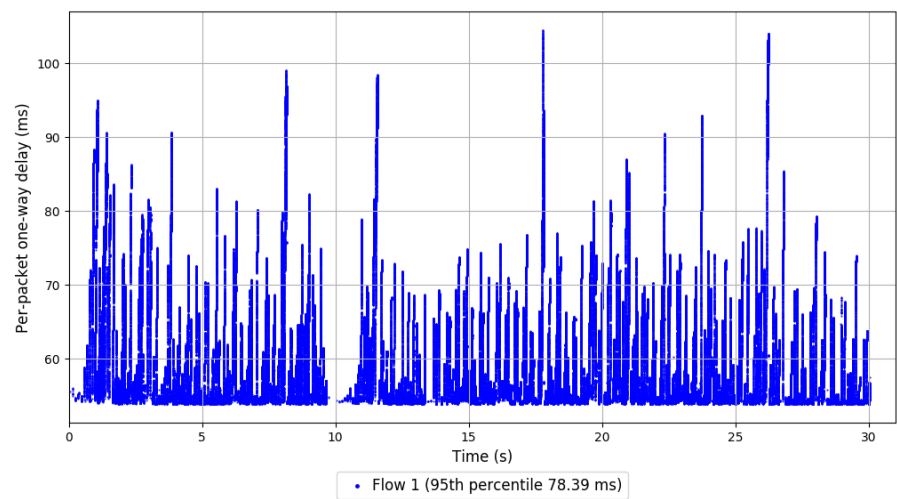
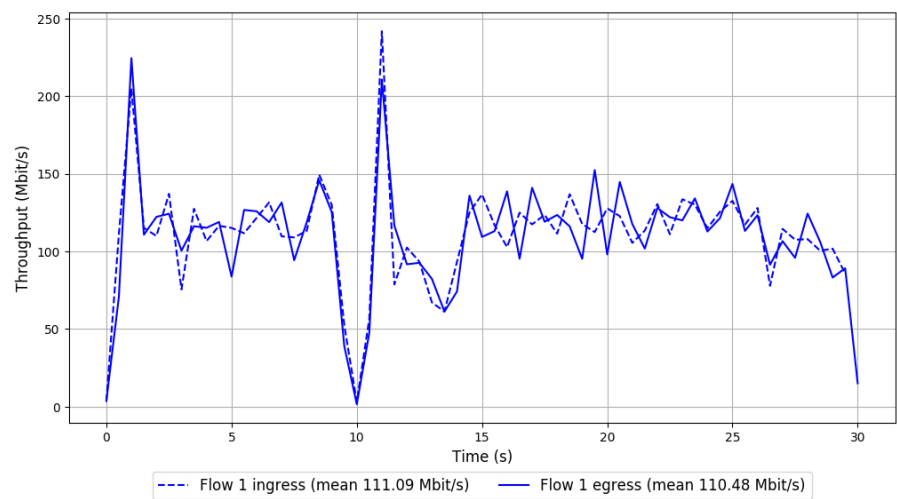
-- Flow 1:

Average throughput: 110.48 Mbit/s

95th percentile per-packet one-way delay: 78.386 ms

Loss rate: 0.55%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-26 00:13:55

End at: 2018-01-26 00:14:25

Below is generated by plot.py at 2018-01-26 02:45:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 99.35 Mbit/s

95th percentile per-packet one-way delay: 80.668 ms

Loss rate: 0.75%

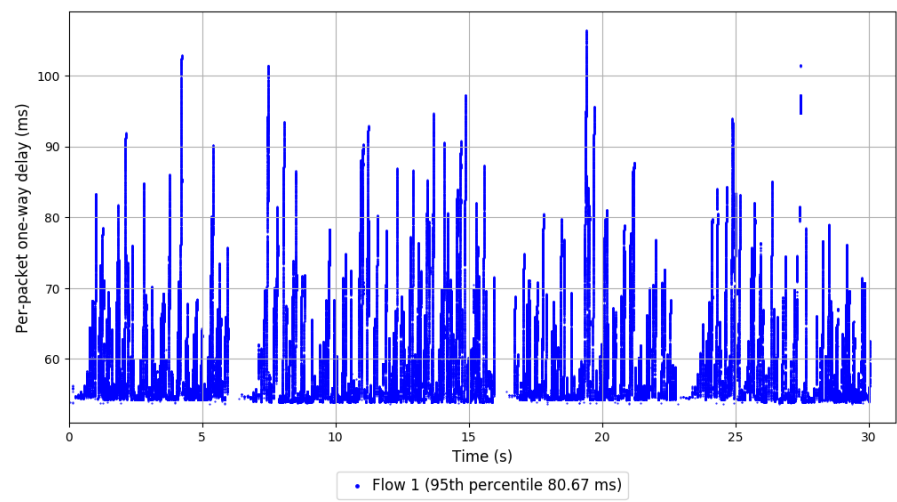
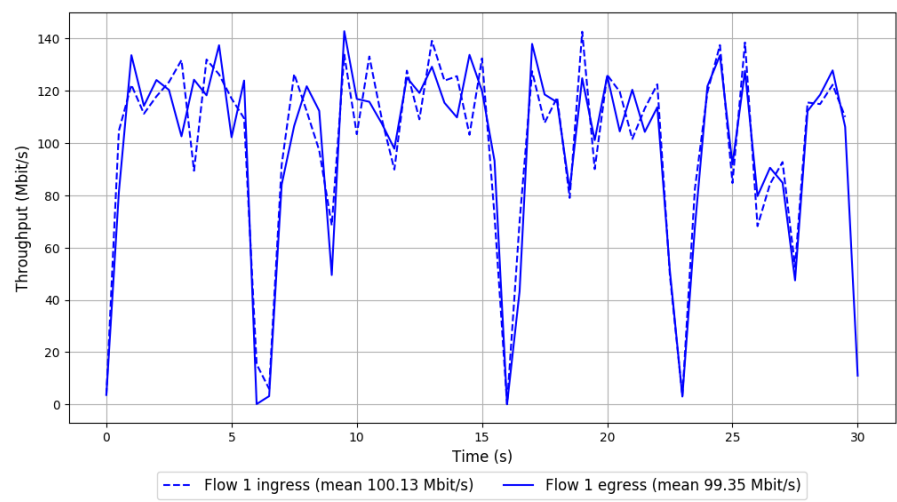
-- Flow 1:

Average throughput: 99.35 Mbit/s

95th percentile per-packet one-way delay: 80.668 ms

Loss rate: 0.75%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-26 00:25:35

End at: 2018-01-26 00:26:05

Below is generated by plot.py at 2018-01-26 02:45:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 109.70 Mbit/s

95th percentile per-packet one-way delay: 75.666 ms

Loss rate: 0.67%

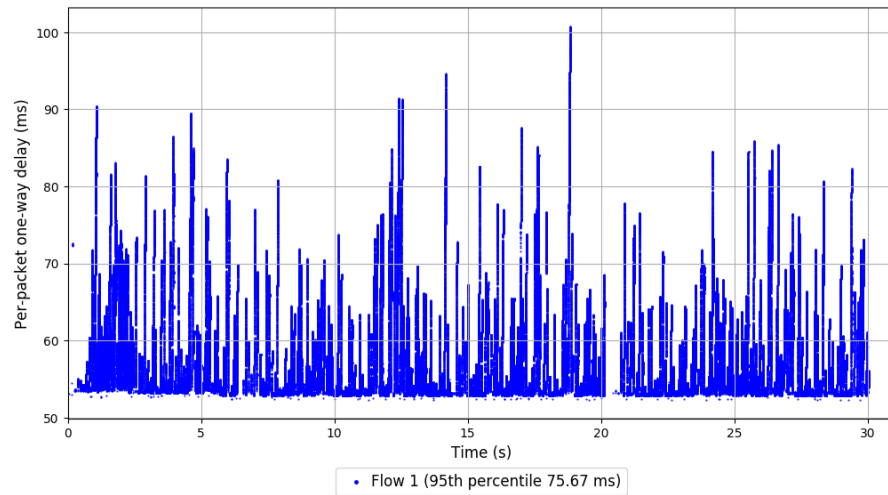
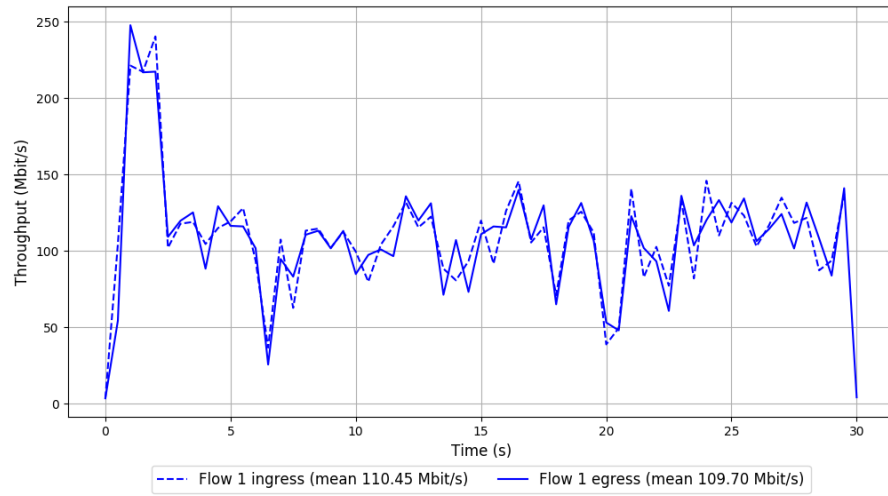
-- Flow 1:

Average throughput: 109.70 Mbit/s

95th percentile per-packet one-way delay: 75.666 ms

Loss rate: 0.67%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-26 00:37:19

End at: 2018-01-26 00:37:49

Below is generated by plot.py at 2018-01-26 02:45:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 111.18 Mbit/s

95th percentile per-packet one-way delay: 71.562 ms

Loss rate: 0.04%

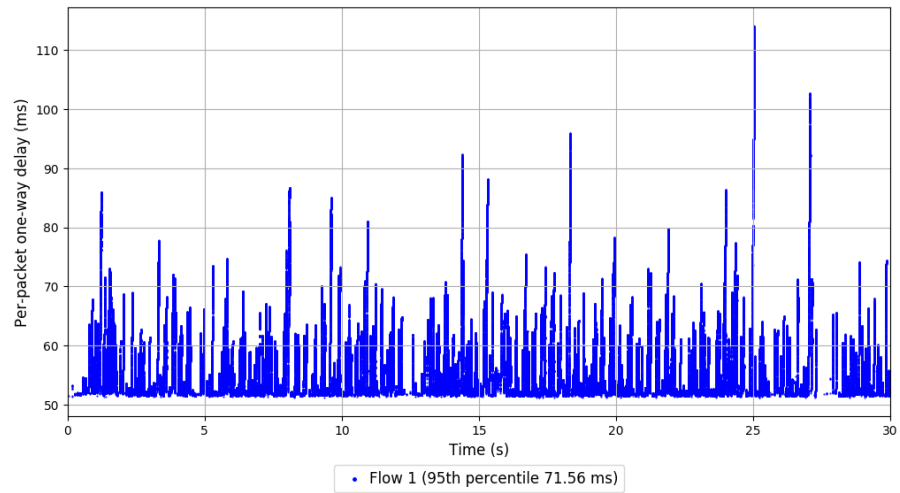
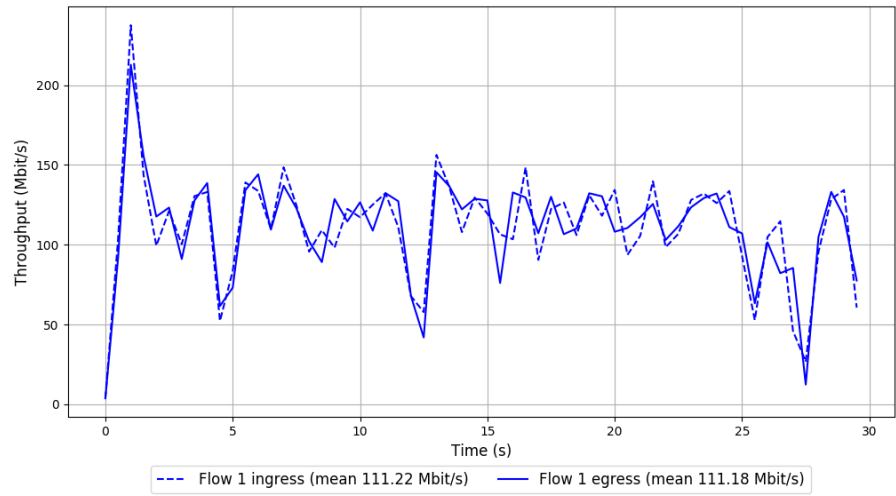
-- Flow 1:

Average throughput: 111.18 Mbit/s

95th percentile per-packet one-way delay: 71.562 ms

Loss rate: 0.04%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-26 00:48:28

End at: 2018-01-26 00:48:58

Below is generated by plot.py at 2018-01-26 02:45:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 110.70 Mbit/s

95th percentile per-packet one-way delay: 70.996 ms

Loss rate: 0.76%

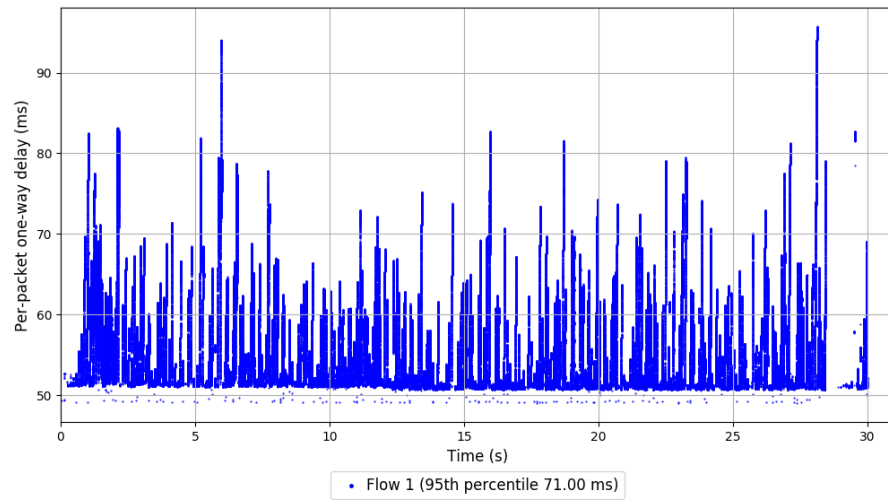
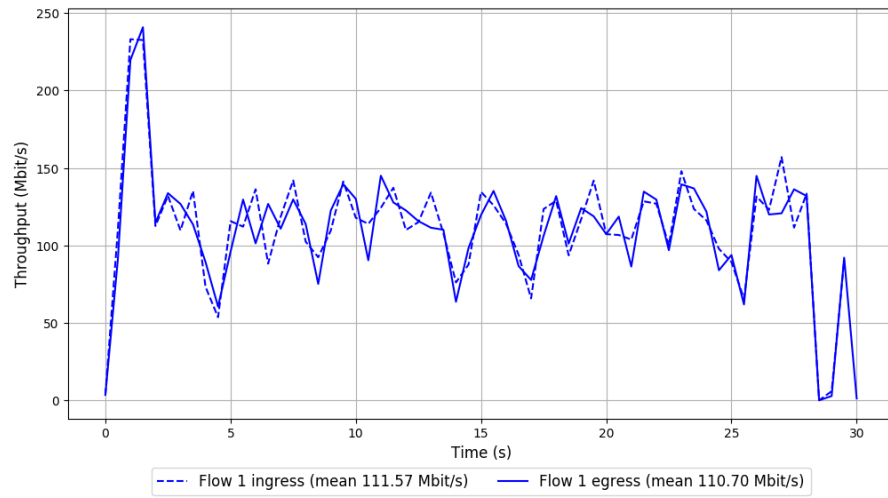
-- Flow 1:

Average throughput: 110.70 Mbit/s

95th percentile per-packet one-way delay: 70.996 ms

Loss rate: 0.76%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-26 00:59:45

End at: 2018-01-26 01:00:15

Below is generated by plot.py at 2018-01-26 02:45:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 113.16 Mbit/s

95th percentile per-packet one-way delay: 77.830 ms

Loss rate: 0.83%

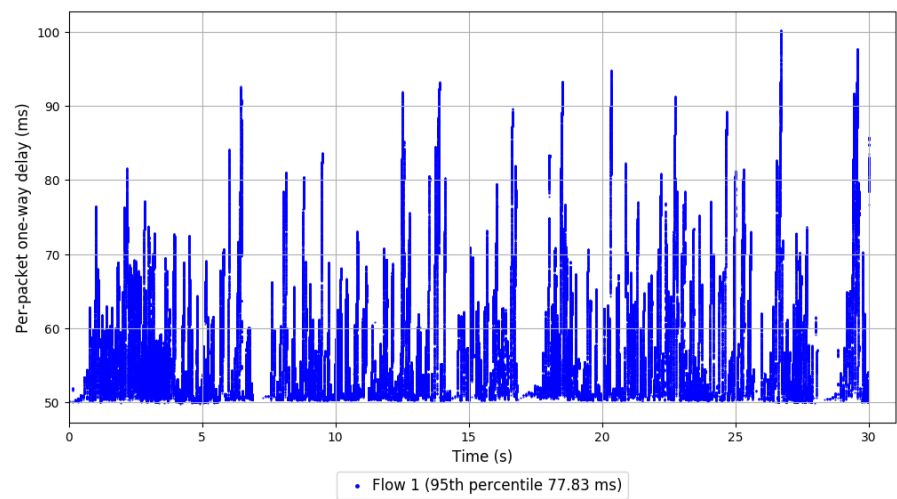
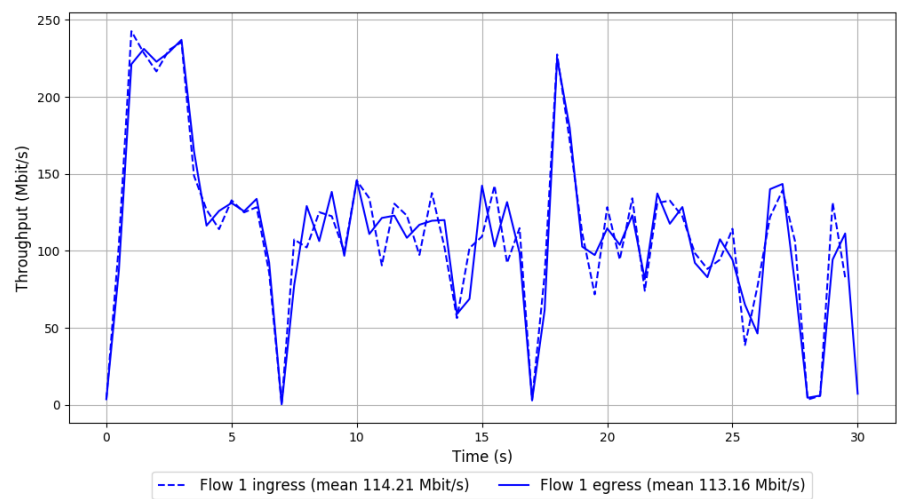
-- Flow 1:

Average throughput: 113.16 Mbit/s

95th percentile per-packet one-way delay: 77.830 ms

Loss rate: 0.83%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-26 01:11:29

End at: 2018-01-26 01:11:59

Below is generated by plot.py at 2018-01-26 02:45:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 114.89 Mbit/s

95th percentile per-packet one-way delay: 70.933 ms

Loss rate: 0.03%

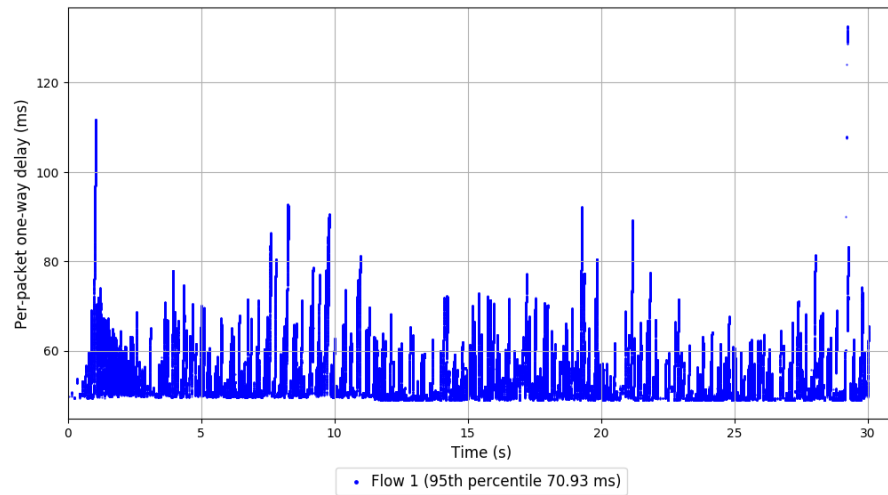
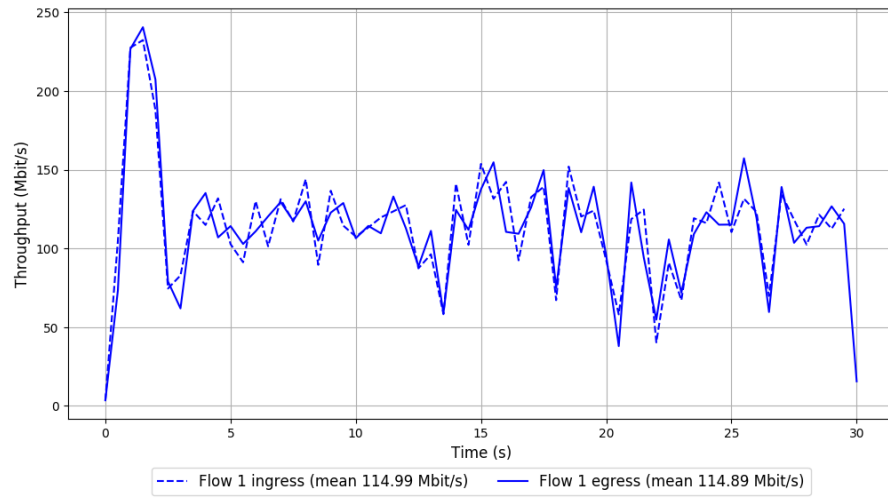
-- Flow 1:

Average throughput: 114.89 Mbit/s

95th percentile per-packet one-way delay: 70.933 ms

Loss rate: 0.03%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-26 01:23:09

End at: 2018-01-26 01:23:39

Below is generated by plot.py at 2018-01-26 02:45:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.77 Mbit/s

95th percentile per-packet one-way delay: 72.982 ms

Loss rate: 0.58%

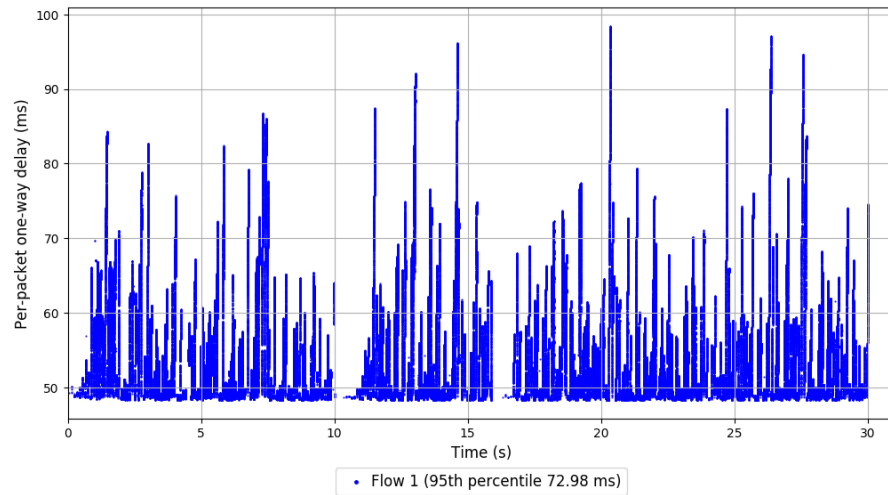
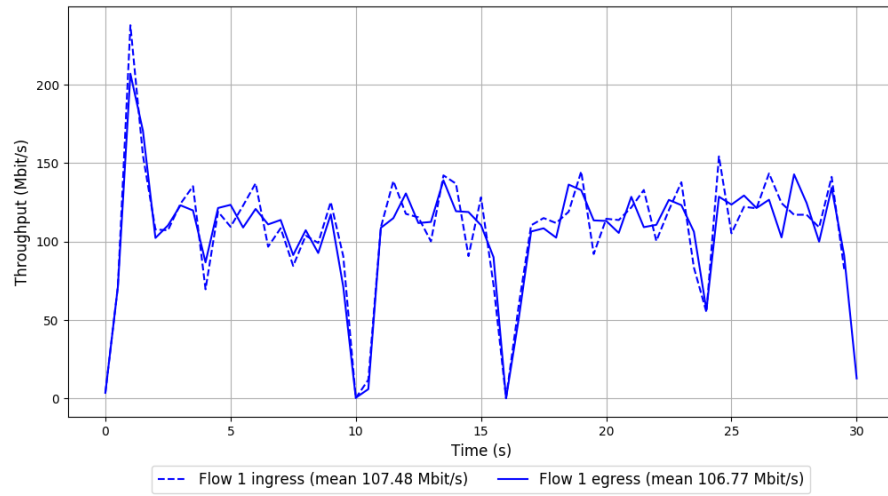
-- Flow 1:

Average throughput: 106.77 Mbit/s

95th percentile per-packet one-way delay: 72.982 ms

Loss rate: 0.58%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-26 01:34:42

End at: 2018-01-26 01:35:12

Below is generated by plot.py at 2018-01-26 02:47:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 112.86 Mbit/s

95th percentile per-packet one-way delay: 64.609 ms

Loss rate: 0.02%

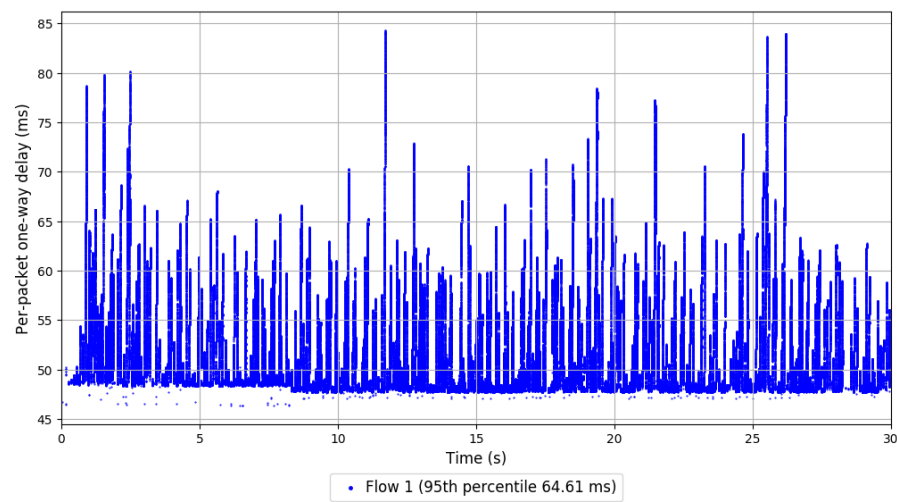
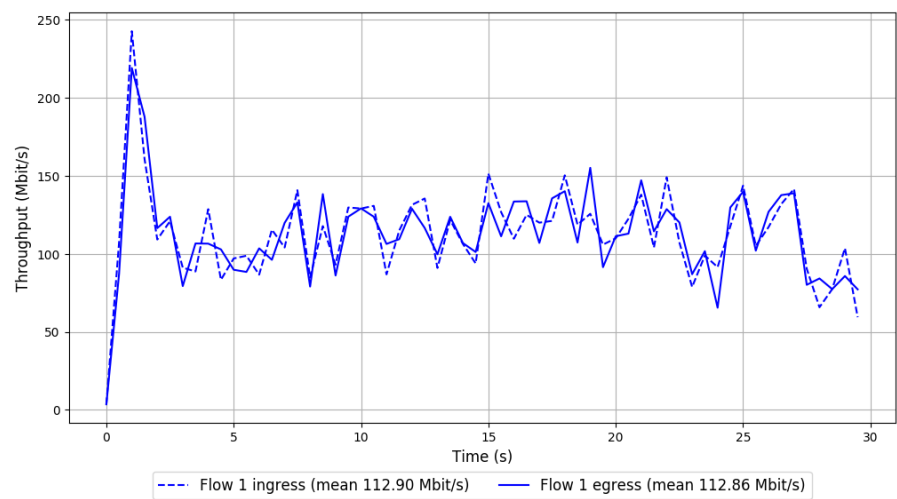
-- Flow 1:

Average throughput: 112.86 Mbit/s

95th percentile per-packet one-way delay: 64.609 ms

Loss rate: 0.02%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-26 01:46:10

End at: 2018-01-26 01:46:40

Below is generated by plot.py at 2018-01-26 02:47:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.14 Mbit/s

95th percentile per-packet one-way delay: 59.175 ms

Loss rate: 0.39%

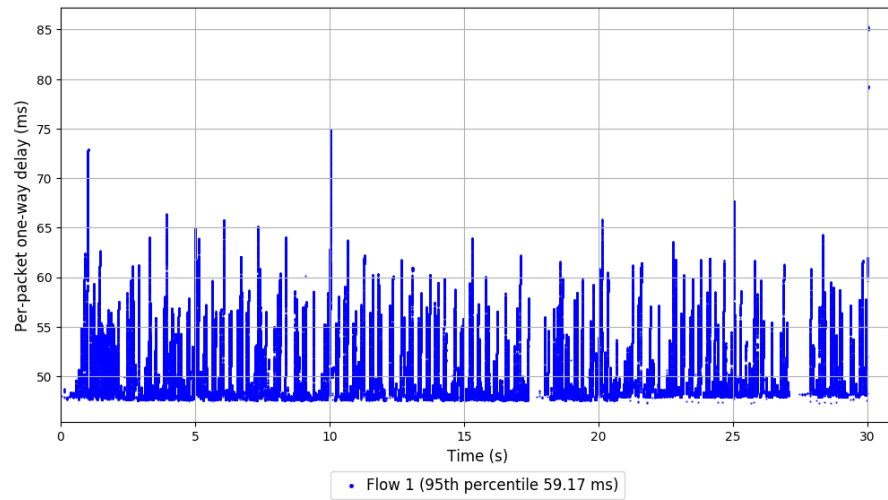
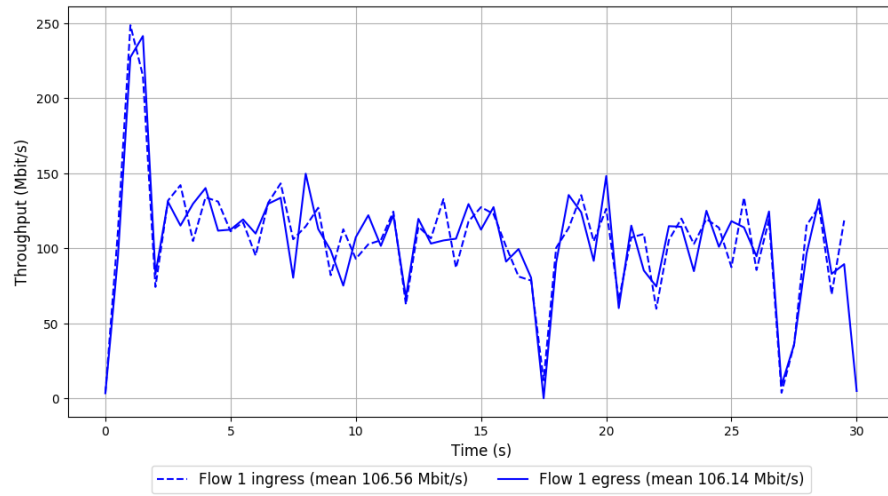
-- Flow 1:

Average throughput: 106.14 Mbit/s

95th percentile per-packet one-way delay: 59.175 ms

Loss rate: 0.39%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-26 00:00:35

End at: 2018-01-26 00:01:05

Below is generated by plot.py at 2018-01-26 02:48:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.91 Mbit/s

95th percentile per-packet one-way delay: 73.971 ms

Loss rate: 0.07%

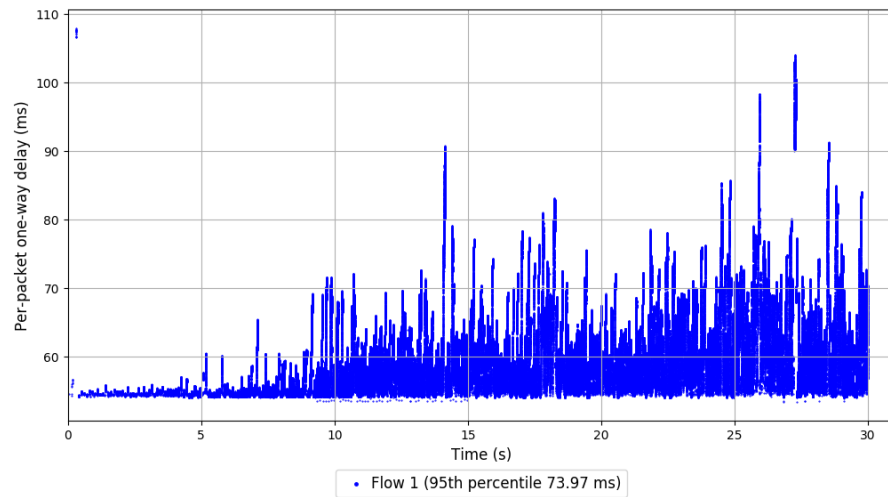
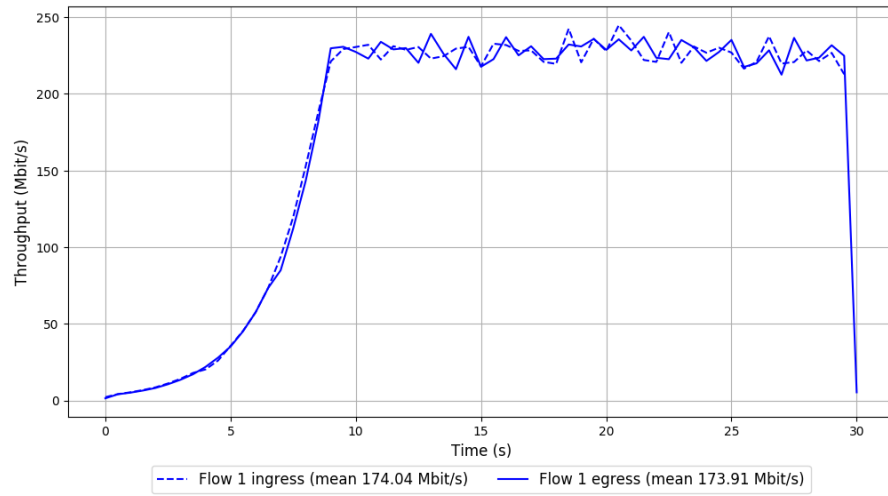
-- Flow 1:

Average throughput: 173.91 Mbit/s

95th percentile per-packet one-way delay: 73.971 ms

Loss rate: 0.07%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-26 00:12:23

End at: 2018-01-26 00:12:53

Below is generated by plot.py at 2018-01-26 02:48:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.38 Mbit/s

95th percentile per-packet one-way delay: 66.558 ms

Loss rate: 0.60%

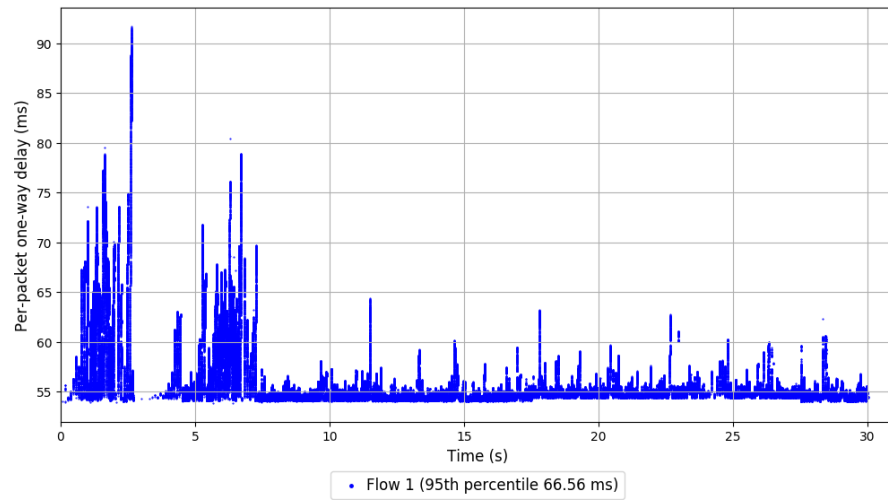
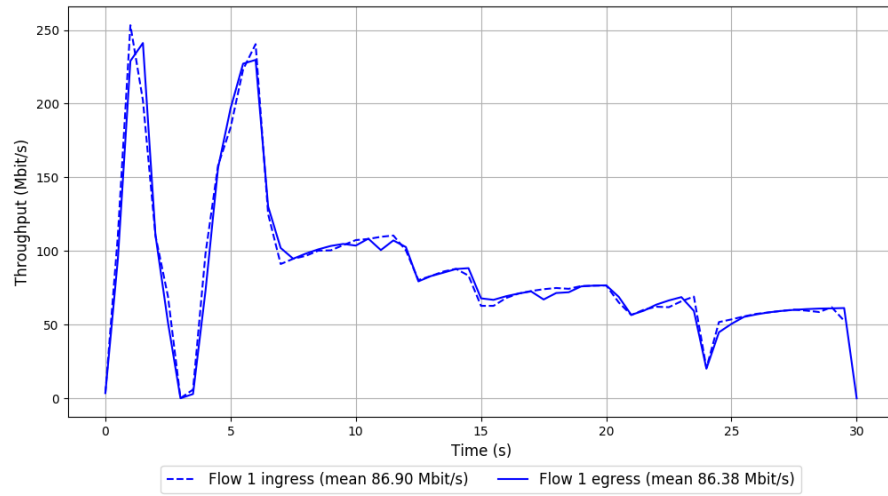
-- Flow 1:

Average throughput: 86.38 Mbit/s

95th percentile per-packet one-way delay: 66.558 ms

Loss rate: 0.60%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-26 00:24:07

End at: 2018-01-26 00:24:37

Below is generated by plot.py at 2018-01-26 02:48:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.15 Mbit/s

95th percentile per-packet one-way delay: 54.974 ms

Loss rate: 0.17%

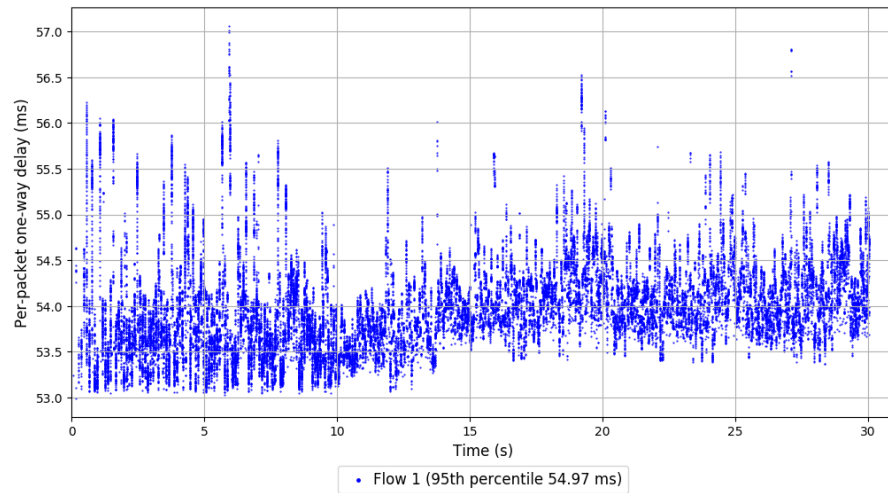
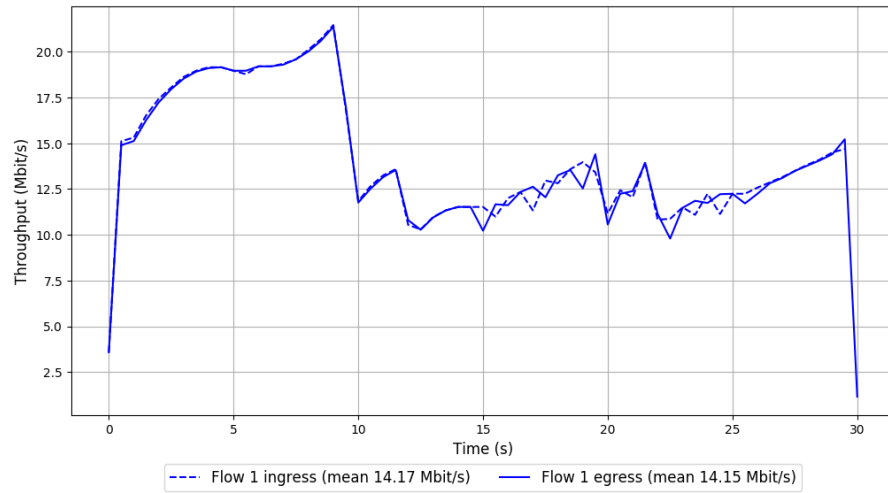
-- Flow 1:

Average throughput: 14.15 Mbit/s

95th percentile per-packet one-way delay: 54.974 ms

Loss rate: 0.17%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-26 00:35:47

End at: 2018-01-26 00:36:17

Below is generated by plot.py at 2018-01-26 02:48:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.40 Mbit/s

95th percentile per-packet one-way delay: 65.206 ms

Loss rate: 0.54%

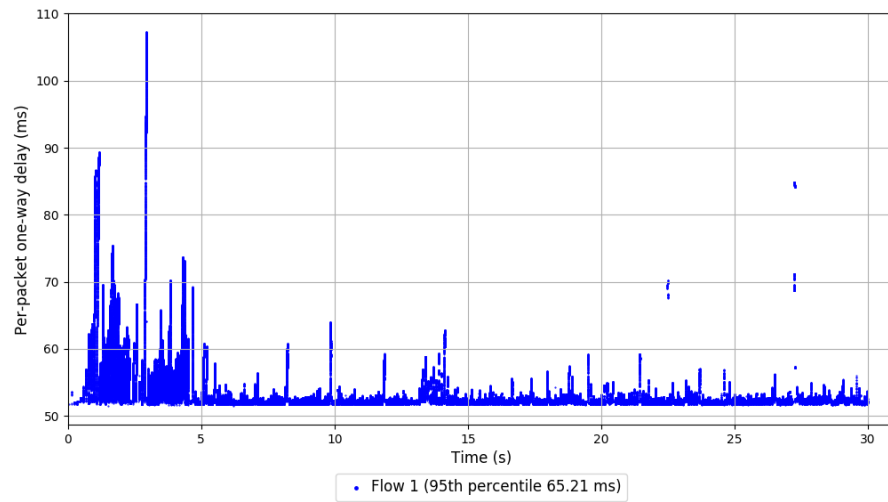
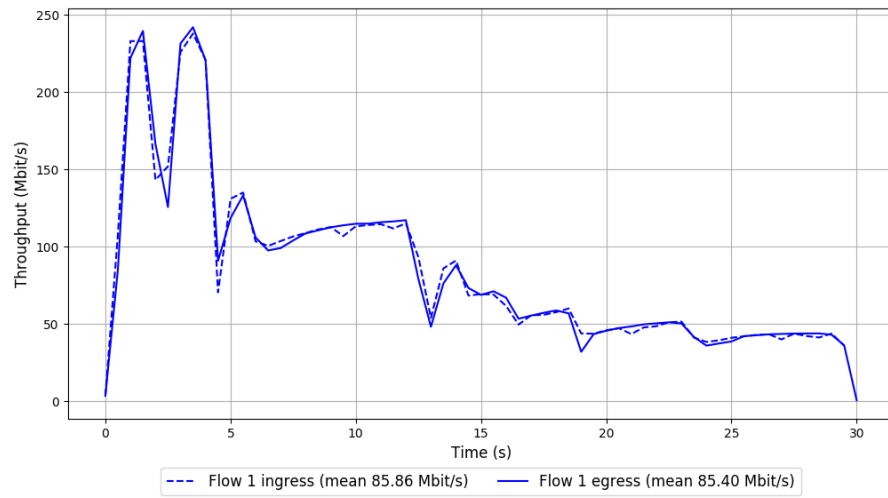
-- Flow 1:

Average throughput: 85.40 Mbit/s

95th percentile per-packet one-way delay: 65.206 ms

Loss rate: 0.54%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-26 00:46:58

End at: 2018-01-26 00:47:28

Below is generated by plot.py at 2018-01-26 02:48:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.91 Mbit/s

95th percentile per-packet one-way delay: 62.173 ms

Loss rate: 0.30%

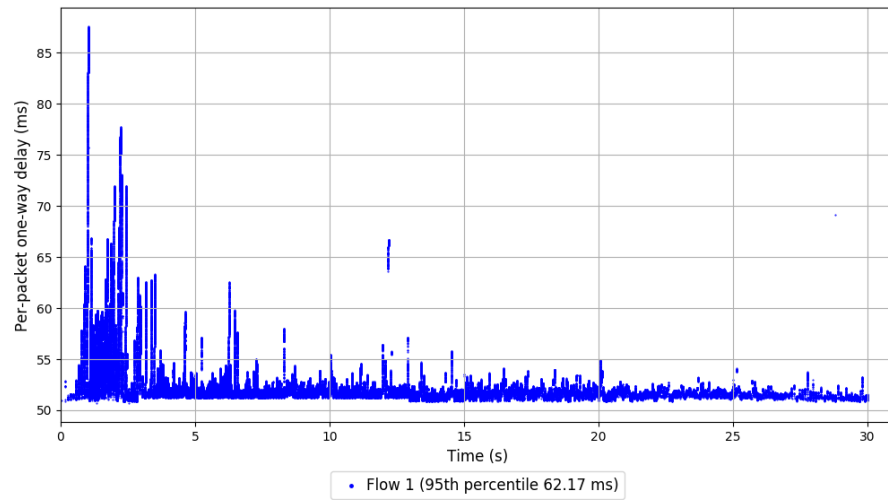
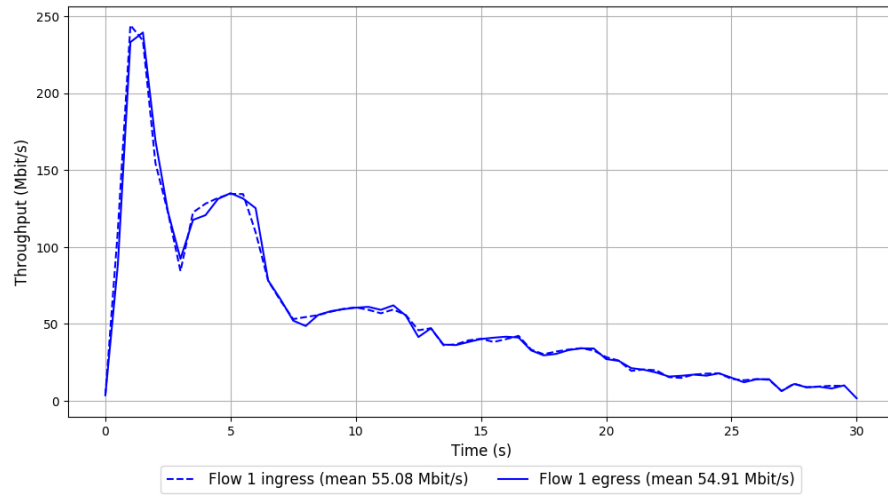
-- Flow 1:

Average throughput: 54.91 Mbit/s

95th percentile per-packet one-way delay: 62.173 ms

Loss rate: 0.30%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-26 00:58:18

End at: 2018-01-26 00:58:48

Below is generated by plot.py at 2018-01-26 02:48:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.13 Mbit/s

95th percentile per-packet one-way delay: 51.849 ms

Loss rate: 0.17%

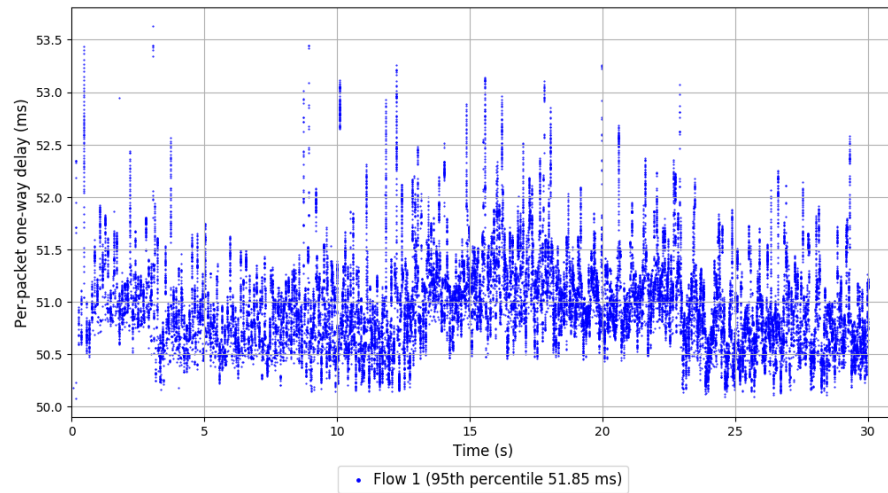
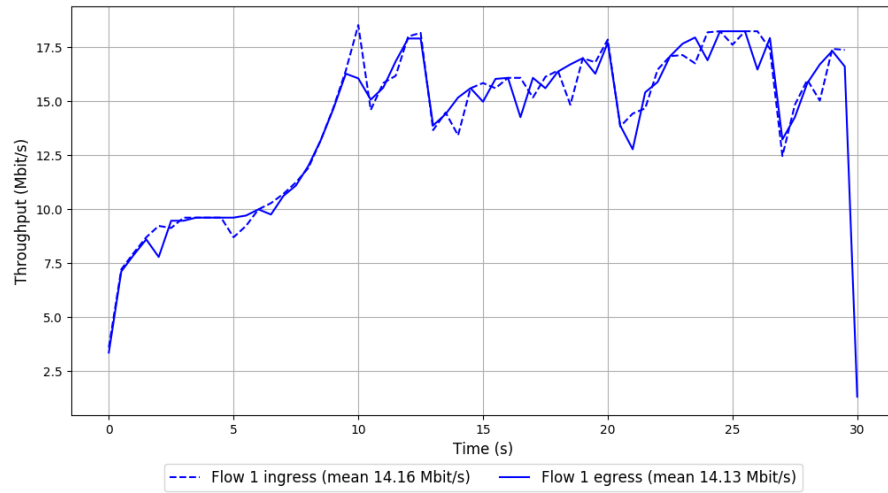
-- Flow 1:

Average throughput: 14.13 Mbit/s

95th percentile per-packet one-way delay: 51.849 ms

Loss rate: 0.17%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-26 01:09:57

End at: 2018-01-26 01:10:27

Below is generated by plot.py at 2018-01-26 02:48:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.22 Mbit/s

95th percentile per-packet one-way delay: 63.140 ms

Loss rate: 0.12%

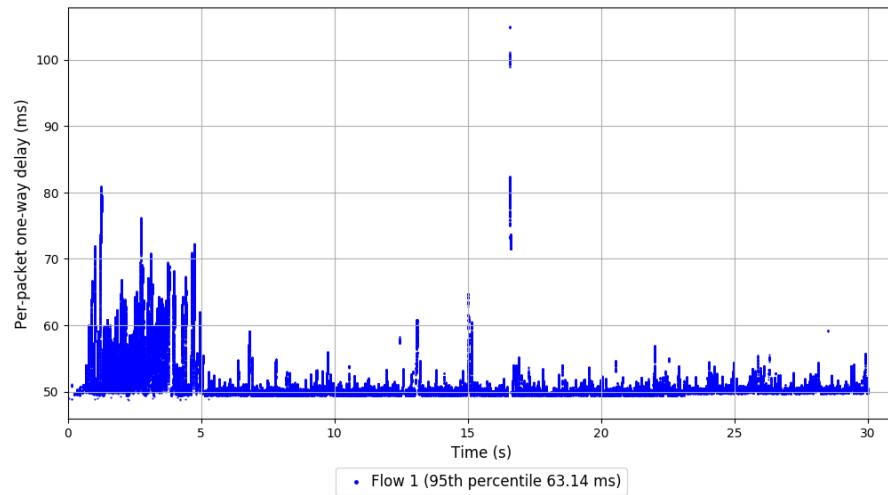
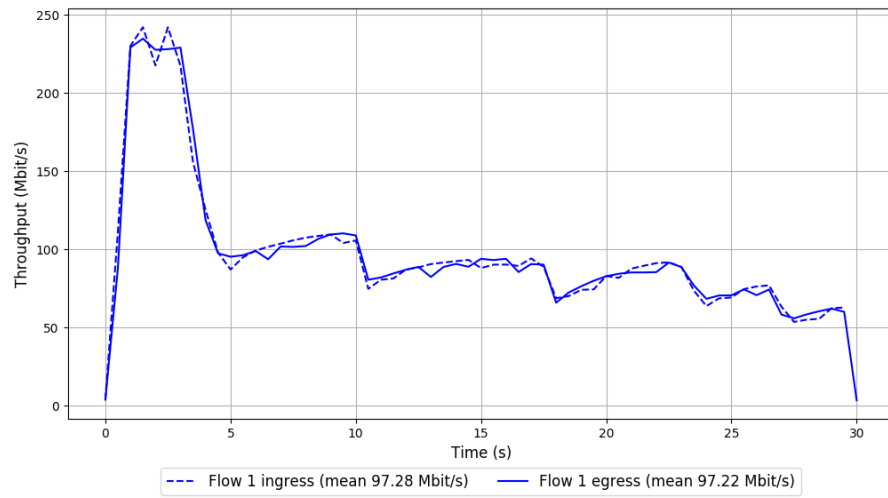
-- Flow 1:

Average throughput: 97.22 Mbit/s

95th percentile per-packet one-way delay: 63.140 ms

Loss rate: 0.12%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-26 01:21:37

End at: 2018-01-26 01:22:07

Below is generated by plot.py at 2018-01-26 02:48:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.26 Mbit/s

95th percentile per-packet one-way delay: 61.249 ms

Loss rate: 0.40%

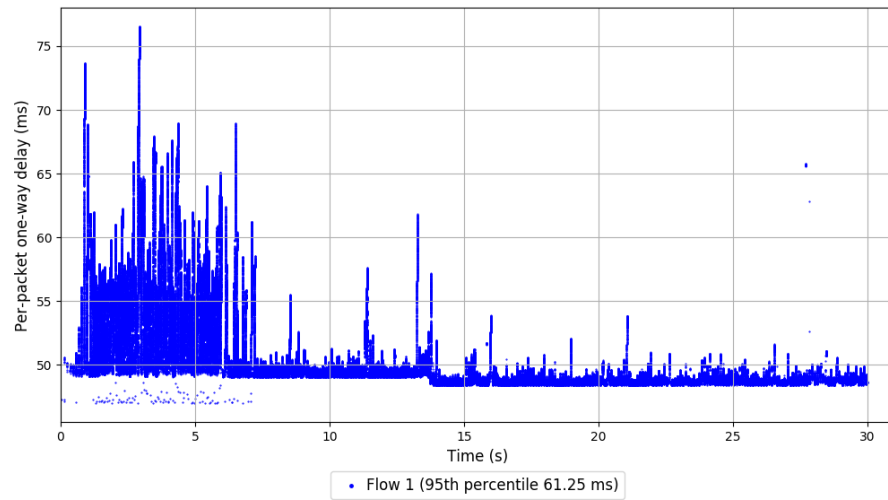
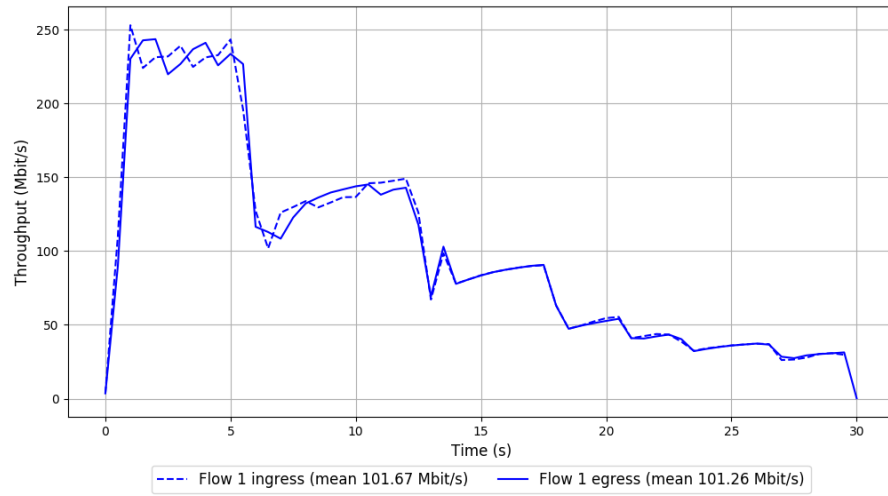
-- Flow 1:

Average throughput: 101.26 Mbit/s

95th percentile per-packet one-way delay: 61.249 ms

Loss rate: 0.40%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-26 01:33:11

End at: 2018-01-26 01:33:41

Below is generated by plot.py at 2018-01-26 02:48:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.35 Mbit/s

95th percentile per-packet one-way delay: 54.921 ms

Loss rate: 0.23%

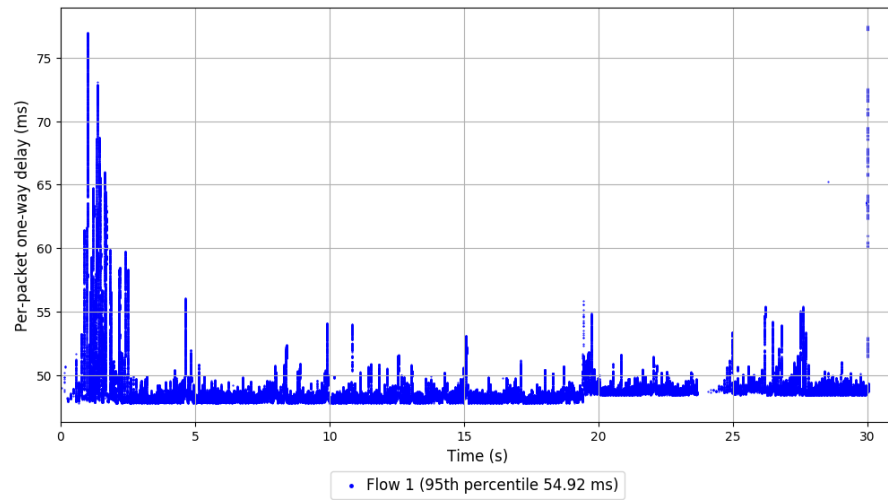
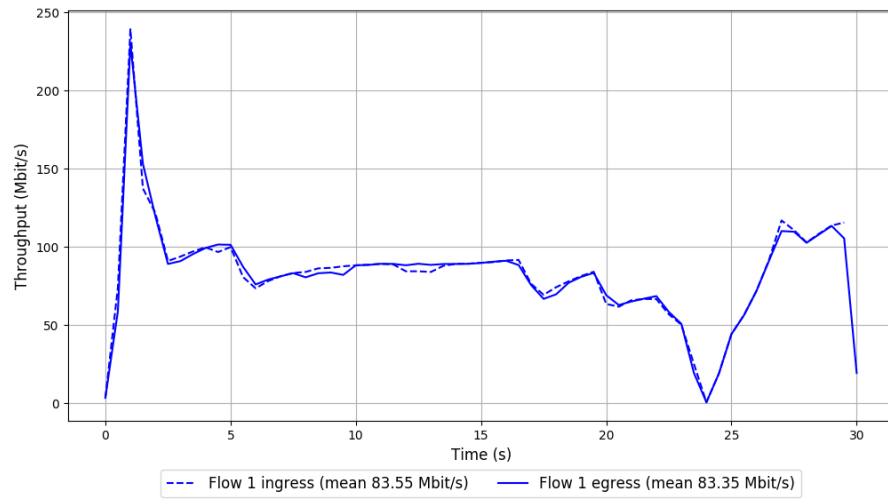
-- Flow 1:

Average throughput: 83.35 Mbit/s

95th percentile per-packet one-way delay: 54.921 ms

Loss rate: 0.23%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-26 01:44:38

End at: 2018-01-26 01:45:08

Below is generated by plot.py at 2018-01-26 02:48:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.11 Mbit/s

95th percentile per-packet one-way delay: 54.868 ms

Loss rate: 0.31%

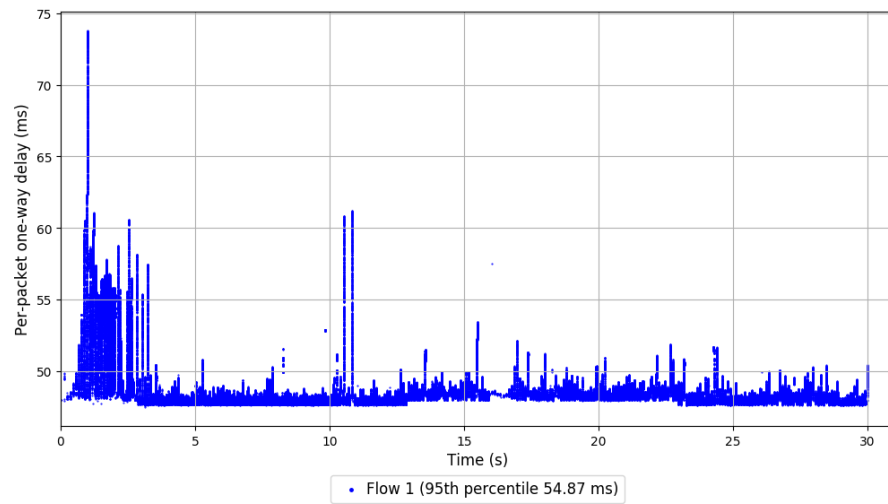
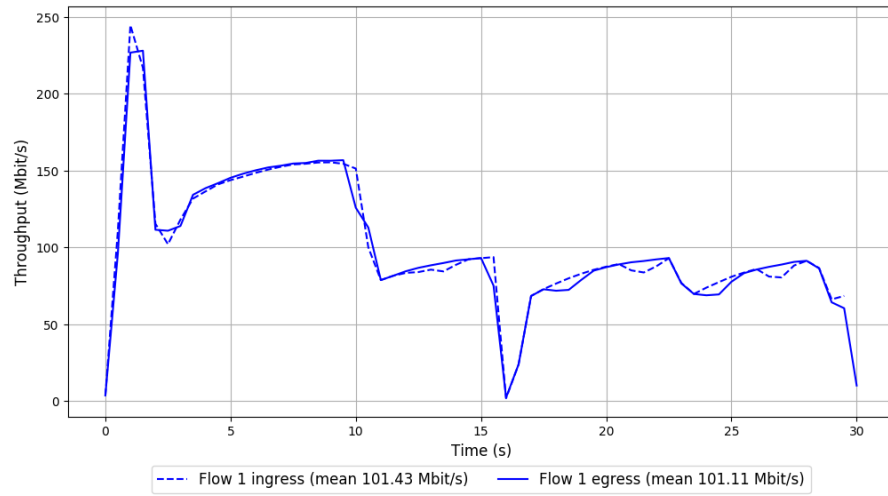
-- Flow 1:

Average throughput: 101.11 Mbit/s

95th percentile per-packet one-way delay: 54.868 ms

Loss rate: 0.31%

Run 10: Report of TCP Cubic — Data Link

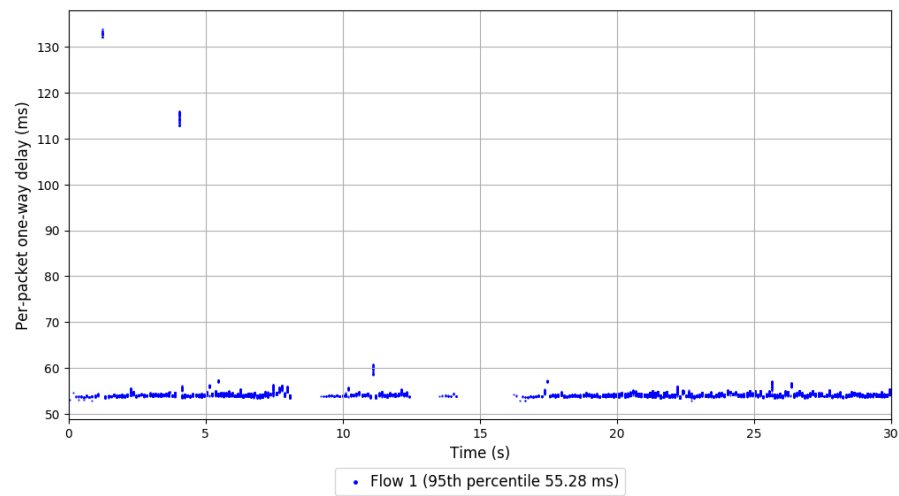
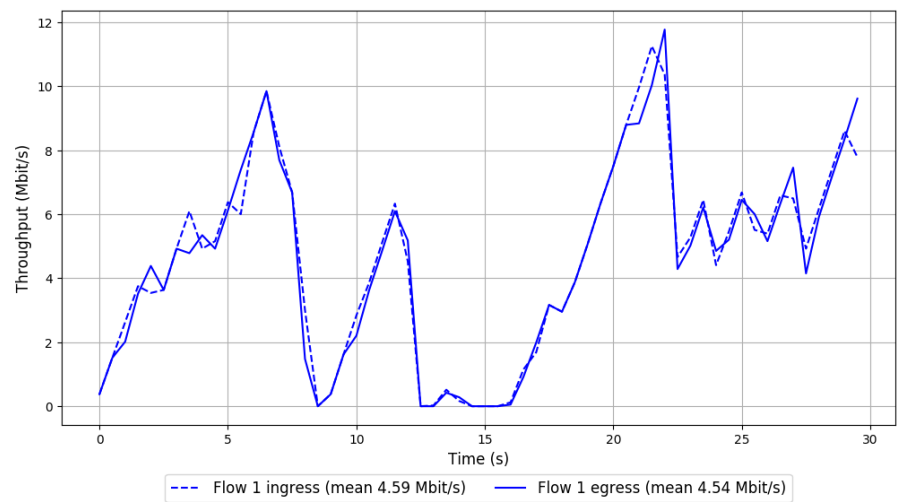


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-26 00:07:07
End at: 2018-01-26 00:07:37

# Below is generated by plot.py at 2018-01-26 02:48:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.54 Mbit/s
95th percentile per-packet one-way delay: 55.279 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 4.54 Mbit/s
95th percentile per-packet one-way delay: 55.279 ms
Loss rate: 1.18%
```


Run 1: Report of LEDBAT — Data Link

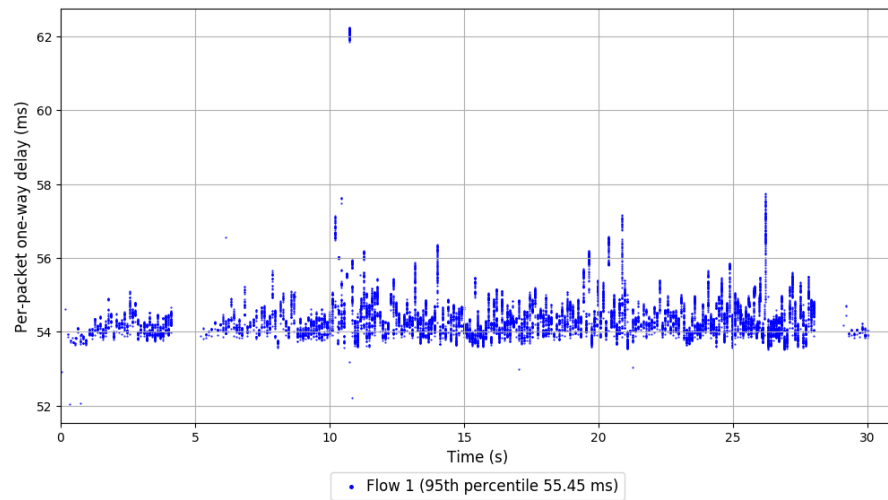
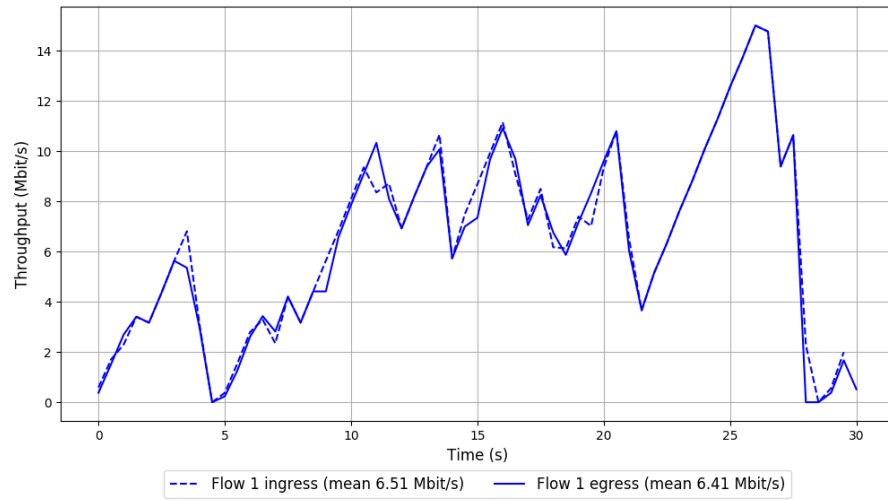


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-26 00:18:51
End at: 2018-01-26 00:19:21

# Below is generated by plot.py at 2018-01-26 02:48:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.41 Mbit/s
95th percentile per-packet one-way delay: 55.454 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 6.41 Mbit/s
95th percentile per-packet one-way delay: 55.454 ms
Loss rate: 1.55%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-26 00:30:30

End at: 2018-01-26 00:31:00

Below is generated by plot.py at 2018-01-26 02:48:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.18 Mbit/s

95th percentile per-packet one-way delay: 54.187 ms

Loss rate: 0.91%

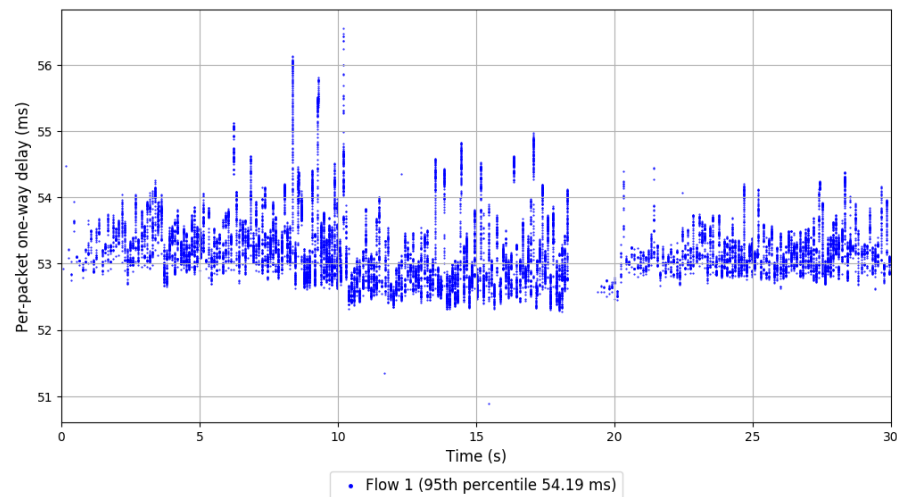
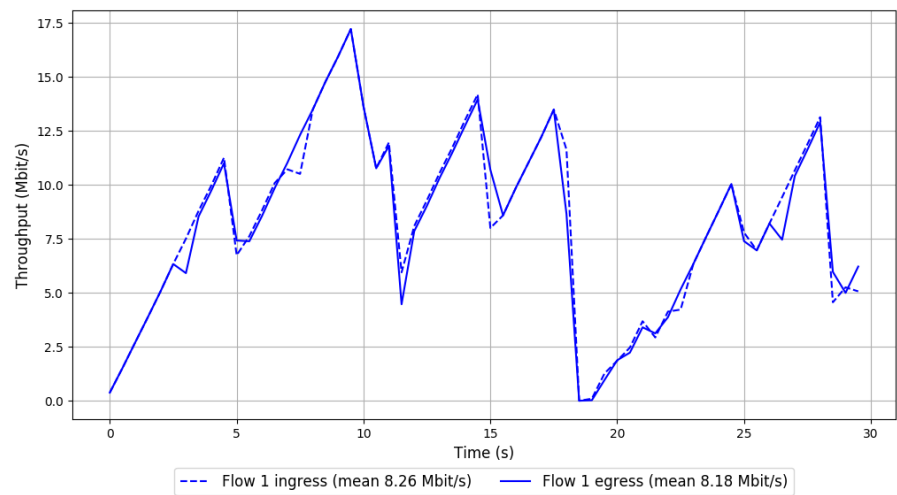
-- Flow 1:

Average throughput: 8.18 Mbit/s

95th percentile per-packet one-way delay: 54.187 ms

Loss rate: 0.91%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-26 00:42:12

End at: 2018-01-26 00:42:42

Below is generated by plot.py at 2018-01-26 02:48:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.98 Mbit/s

95th percentile per-packet one-way delay: 53.424 ms

Loss rate: 2.70%

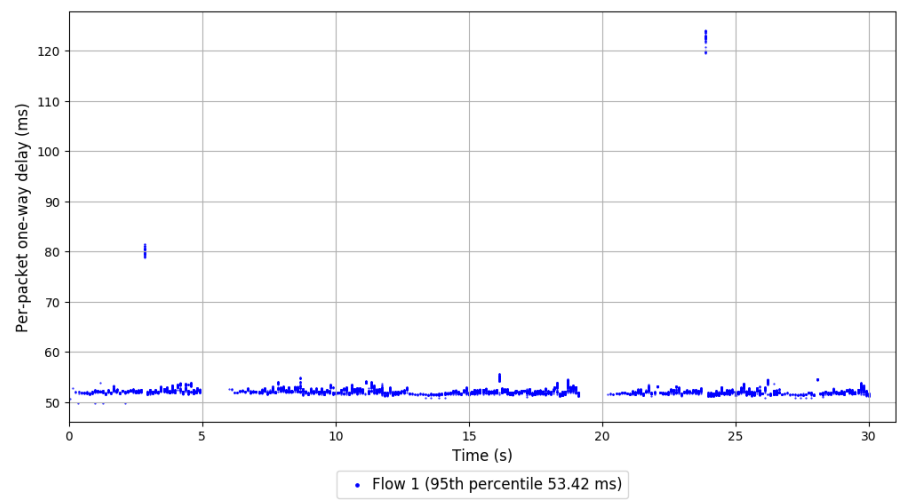
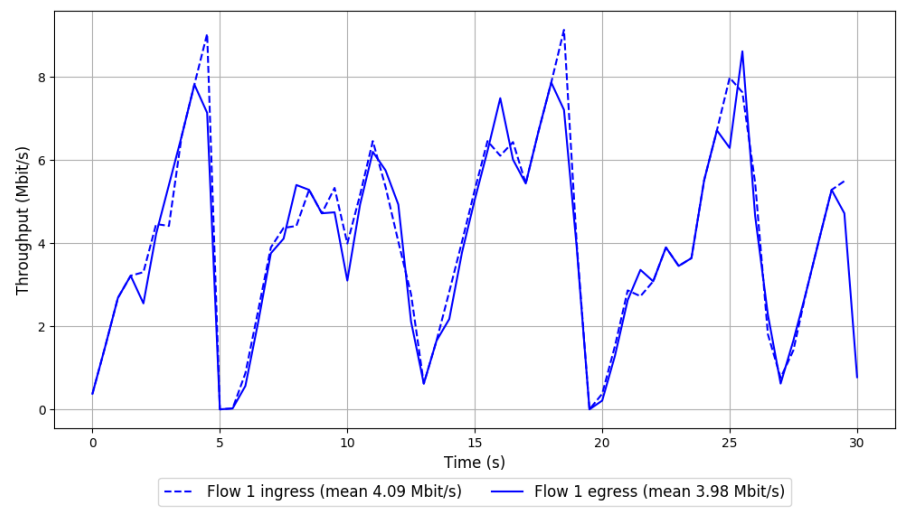
-- Flow 1:

Average throughput: 3.98 Mbit/s

95th percentile per-packet one-way delay: 53.424 ms

Loss rate: 2.70%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-26 00:53:25

End at: 2018-01-26 00:53:55

Below is generated by plot.py at 2018-01-26 02:48:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.87 Mbit/s

95th percentile per-packet one-way delay: 52.538 ms

Loss rate: 0.90%

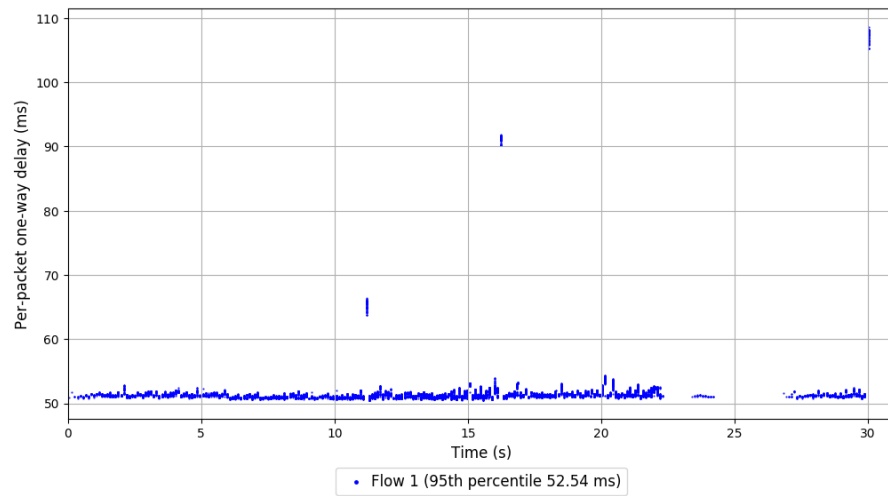
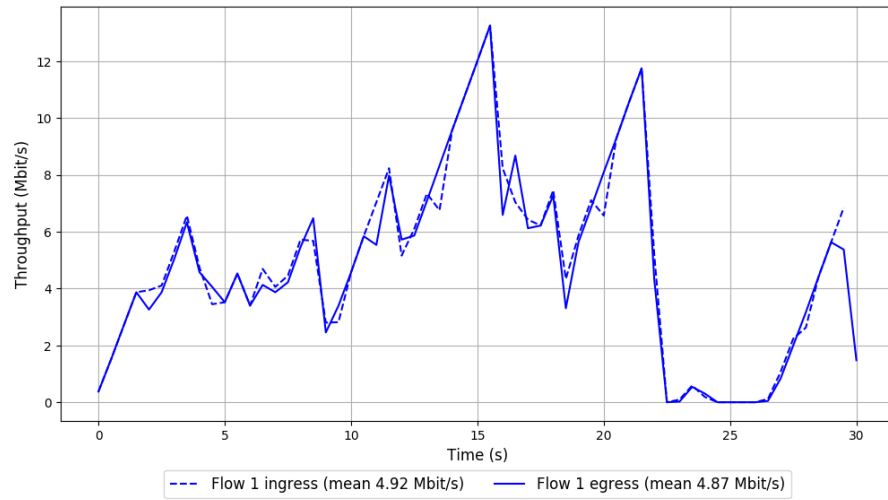
-- Flow 1:

Average throughput: 4.87 Mbit/s

95th percentile per-packet one-way delay: 52.538 ms

Loss rate: 0.90%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-26 01:04:41

End at: 2018-01-26 01:05:11

Below is generated by plot.py at 2018-01-26 02:48:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.64 Mbit/s

95th percentile per-packet one-way delay: 51.737 ms

Loss rate: 1.21%

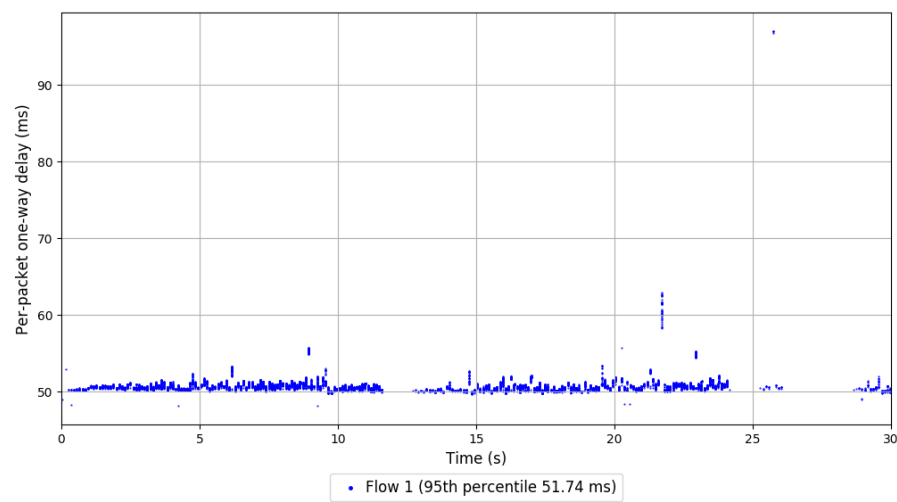
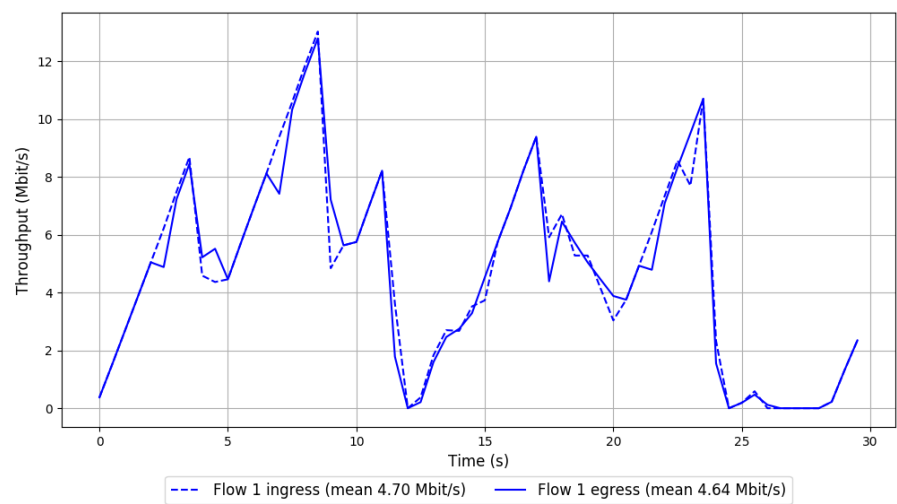
-- Flow 1:

Average throughput: 4.64 Mbit/s

95th percentile per-packet one-way delay: 51.737 ms

Loss rate: 1.21%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

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

End at: 2018-01-26 01:16:54

Below is generated by plot.py at 2018-01-26 02:48:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.17 Mbit/s

95th percentile per-packet one-way delay: 50.902 ms

Loss rate: 0.68%

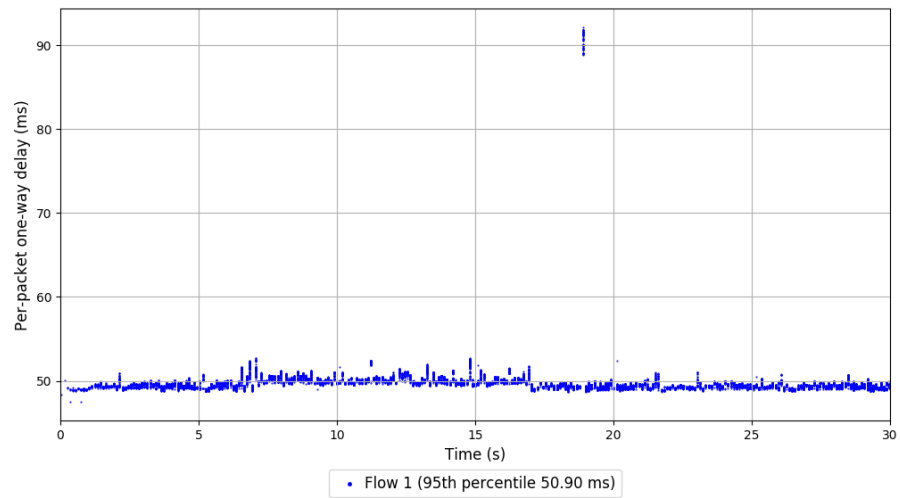
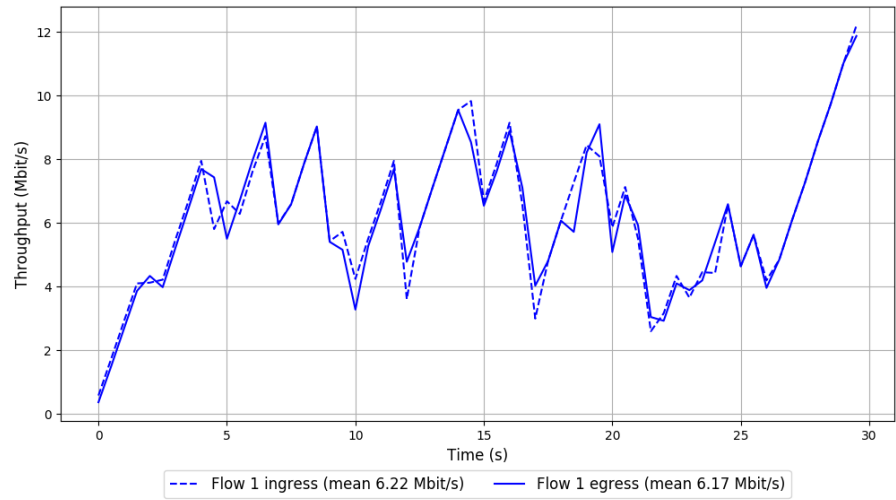
-- Flow 1:

Average throughput: 6.17 Mbit/s

95th percentile per-packet one-way delay: 50.902 ms

Loss rate: 0.68%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-26 01:28:05

End at: 2018-01-26 01:28:35

Below is generated by plot.py at 2018-01-26 02:48:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.10 Mbit/s

95th percentile per-packet one-way delay: 50.227 ms

Loss rate: 1.72%

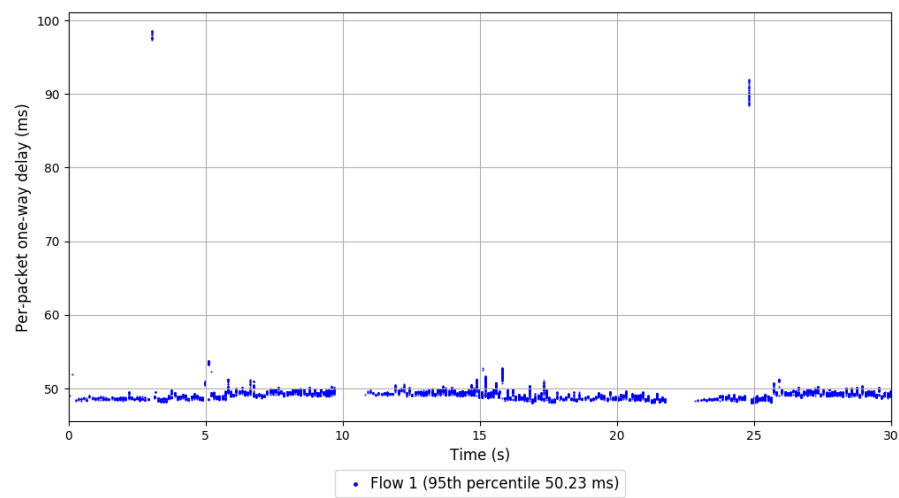
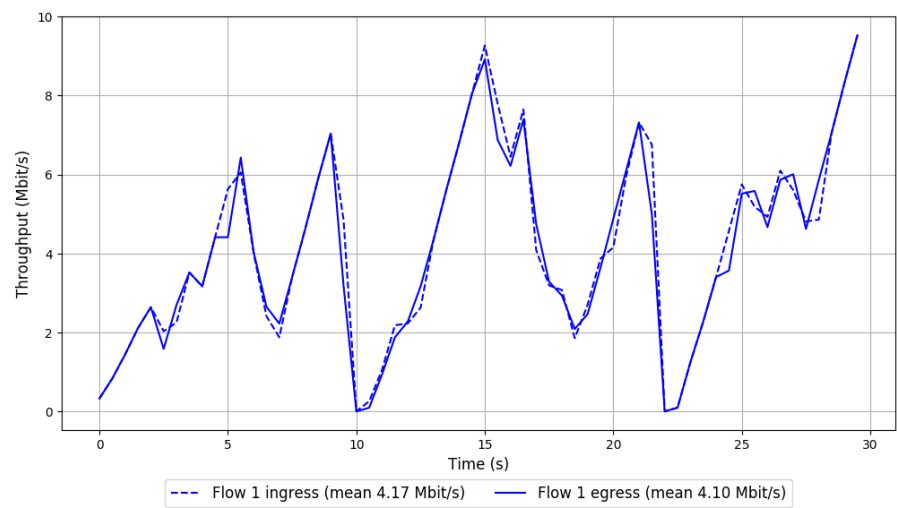
-- Flow 1:

Average throughput: 4.10 Mbit/s

95th percentile per-packet one-way delay: 50.227 ms

Loss rate: 1.72%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-26 01:39:40

End at: 2018-01-26 01:40:10

Below is generated by plot.py at 2018-01-26 02:48:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.11 Mbit/s

95th percentile per-packet one-way delay: 49.462 ms

Loss rate: 0.83%

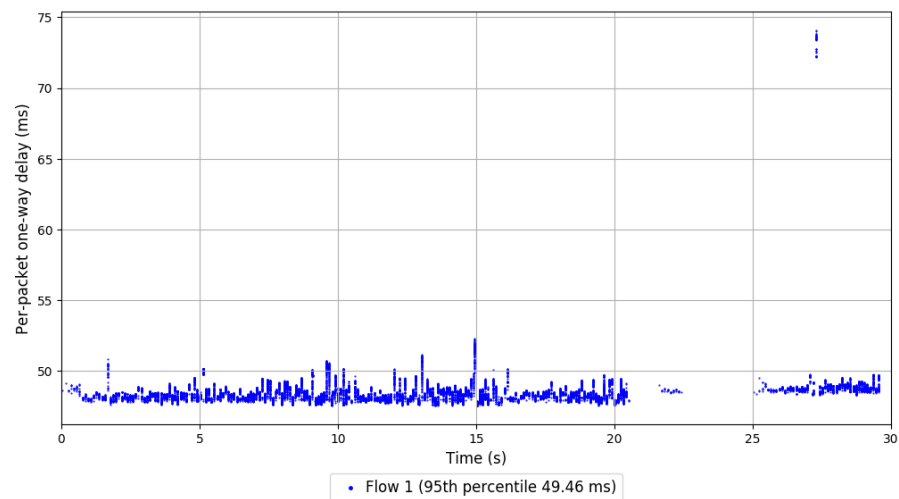
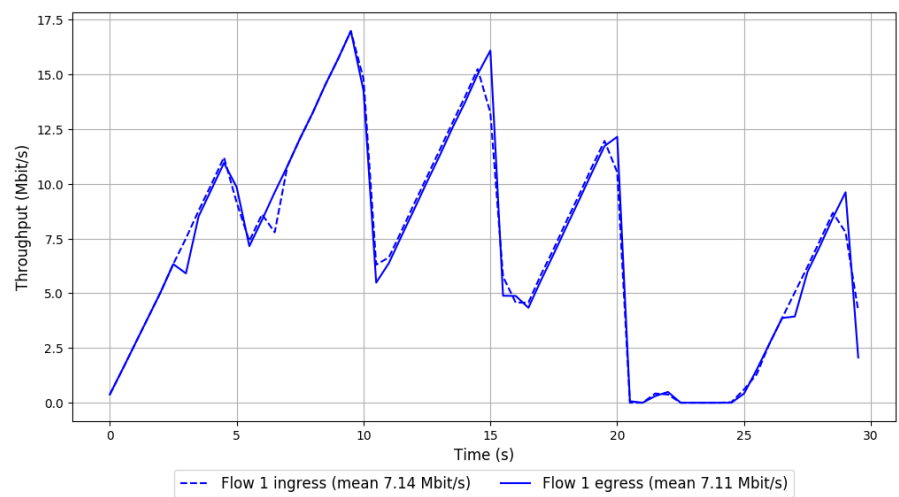
-- Flow 1:

Average throughput: 7.11 Mbit/s

95th percentile per-packet one-way delay: 49.462 ms

Loss rate: 0.83%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-26 01:51:07

End at: 2018-01-26 01:51:37

Below is generated by plot.py at 2018-01-26 02:48:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.74 Mbit/s

95th percentile per-packet one-way delay: 48.915 ms

Loss rate: 0.77%

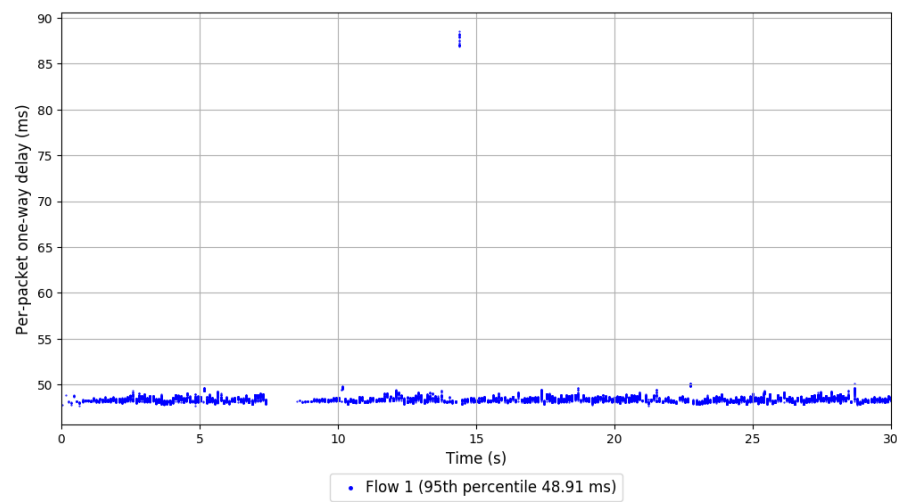
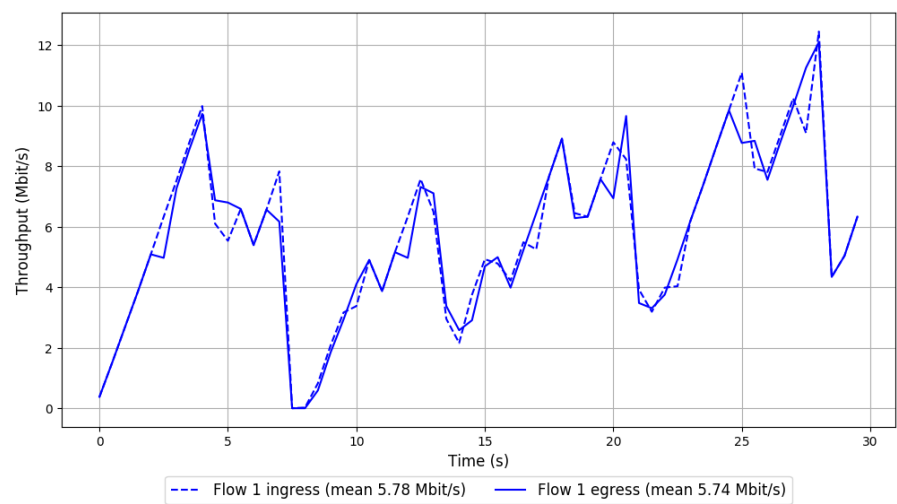
-- Flow 1:

Average throughput: 5.74 Mbit/s

95th percentile per-packet one-way delay: 48.915 ms

Loss rate: 0.77%

Run 10: Report of LEDBAT — Data Link

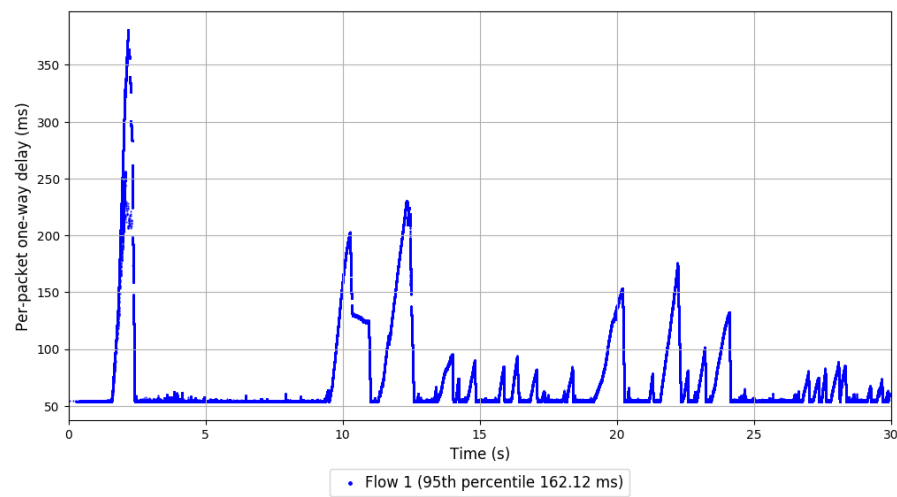
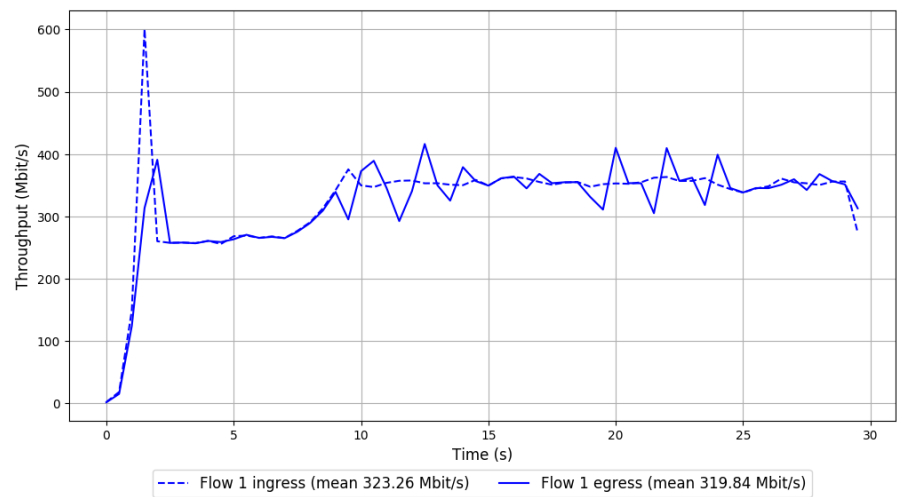


```
Run 1: Statistics of PCC

Start at: 2018-01-26 00:04:57
End at: 2018-01-26 00:05:27

# Below is generated by plot.py at 2018-01-26 02:53:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 319.84 Mbit/s
95th percentile per-packet one-way delay: 162.117 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 319.84 Mbit/s
95th percentile per-packet one-way delay: 162.117 ms
Loss rate: 1.06%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-26 00:16:41

End at: 2018-01-26 00:17:11

Below is generated by plot.py at 2018-01-26 02:53:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 328.61 Mbit/s

95th percentile per-packet one-way delay: 207.000 ms

Loss rate: 1.49%

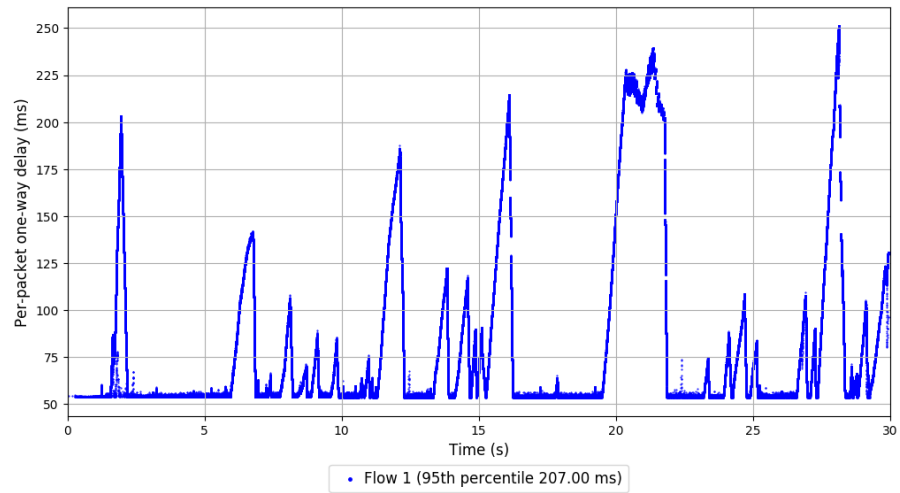
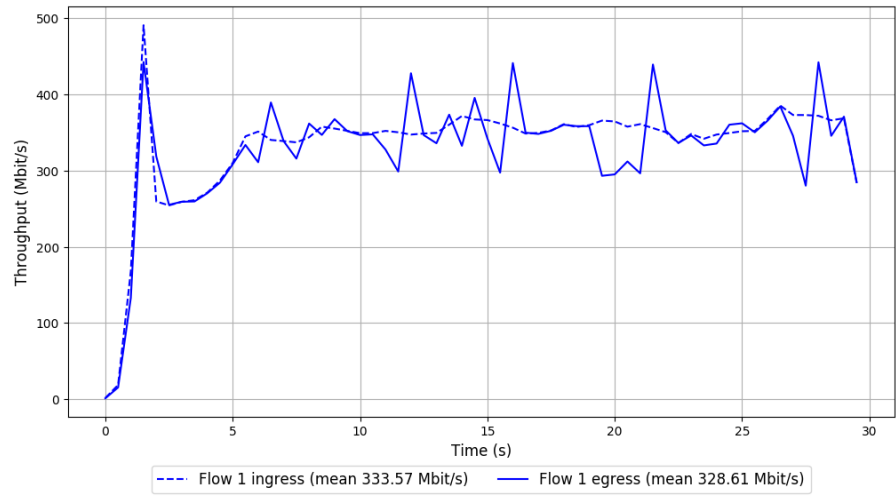
-- Flow 1:

Average throughput: 328.61 Mbit/s

95th percentile per-packet one-way delay: 207.000 ms

Loss rate: 1.49%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-26 00:28:21

End at: 2018-01-26 00:28:51

Below is generated by plot.py at 2018-01-26 02:54:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 338.77 Mbit/s

95th percentile per-packet one-way delay: 139.916 ms

Loss rate: 0.94%

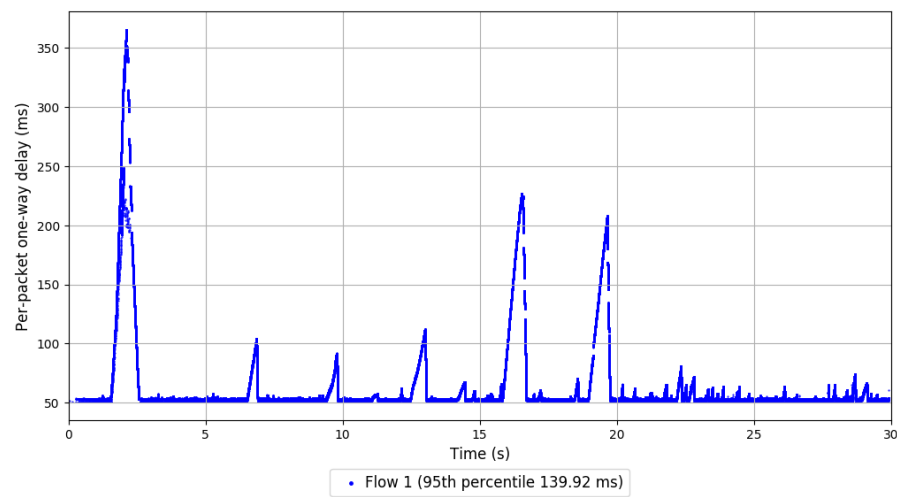
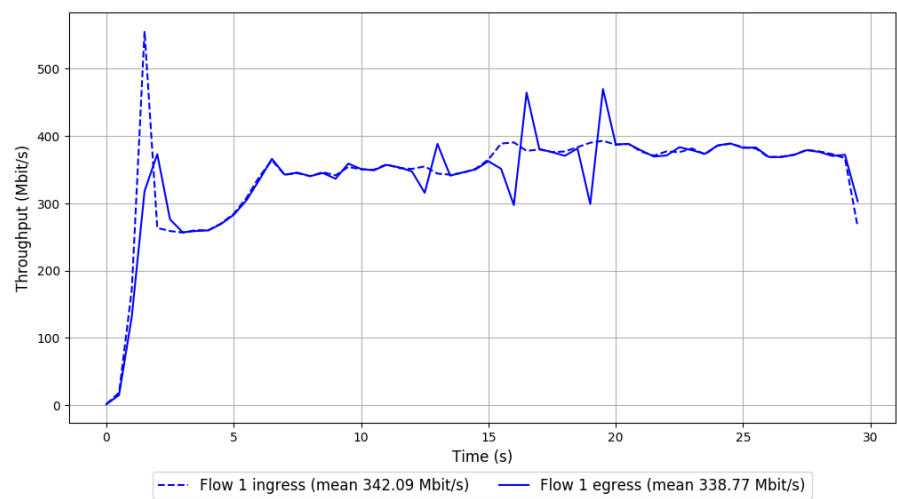
-- Flow 1:

Average throughput: 338.77 Mbit/s

95th percentile per-packet one-way delay: 139.916 ms

Loss rate: 0.94%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-26 00:40:06

End at: 2018-01-26 00:40:36

Below is generated by plot.py at 2018-01-26 02:54:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 323.39 Mbit/s

95th percentile per-packet one-way delay: 112.523 ms

Loss rate: 0.04%

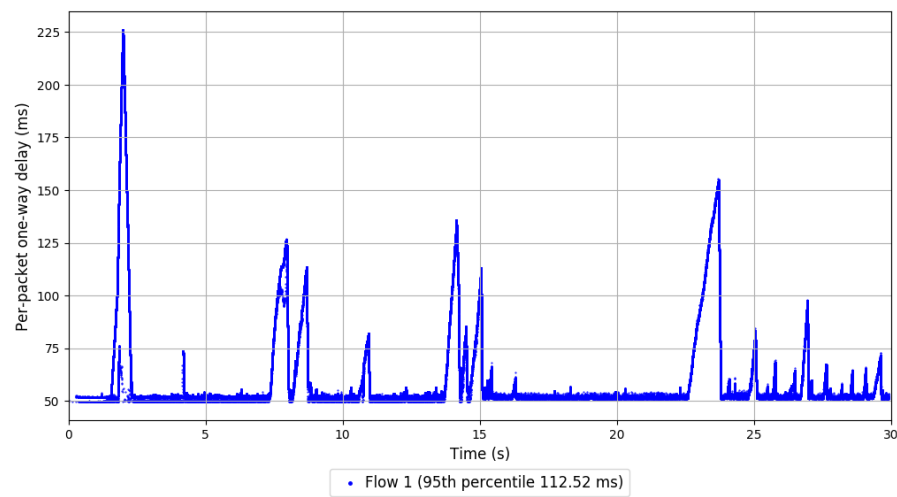
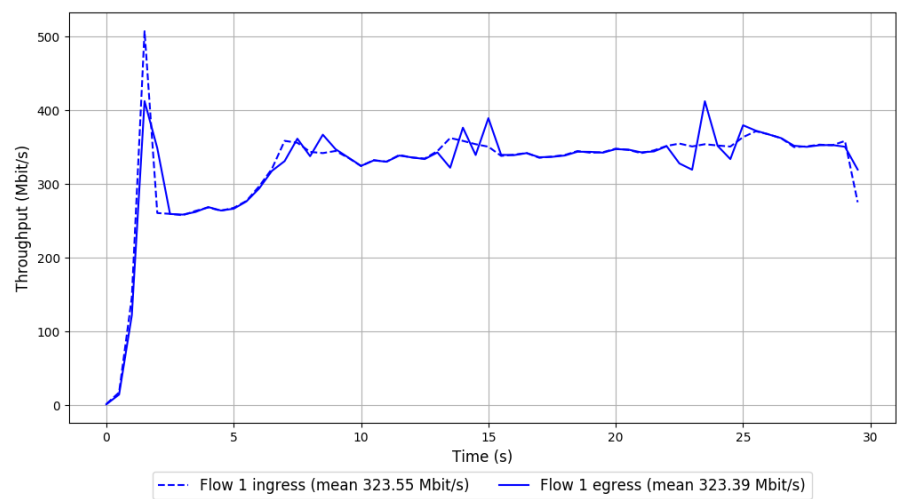
-- Flow 1:

Average throughput: 323.39 Mbit/s

95th percentile per-packet one-way delay: 112.523 ms

Loss rate: 0.04%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-26 00:51:15

End at: 2018-01-26 00:51:45

Below is generated by plot.py at 2018-01-26 02:54:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 352.34 Mbit/s

95th percentile per-packet one-way delay: 165.550 ms

Loss rate: 0.73%

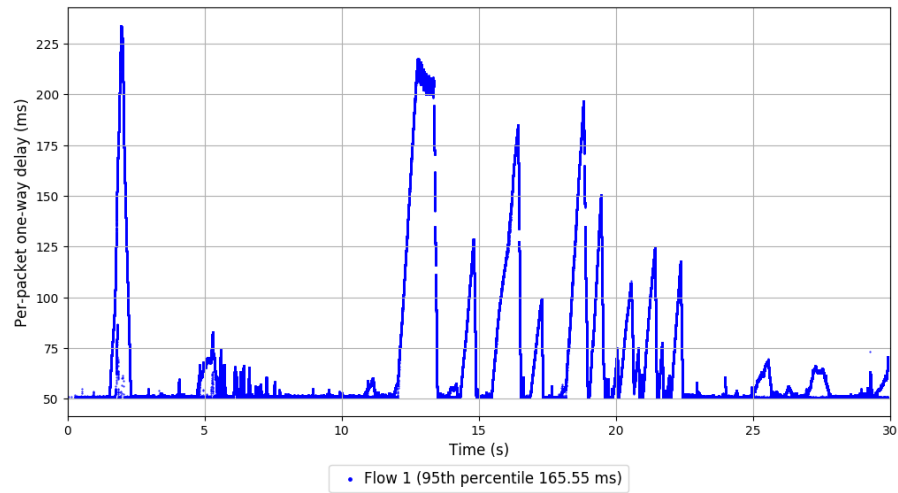
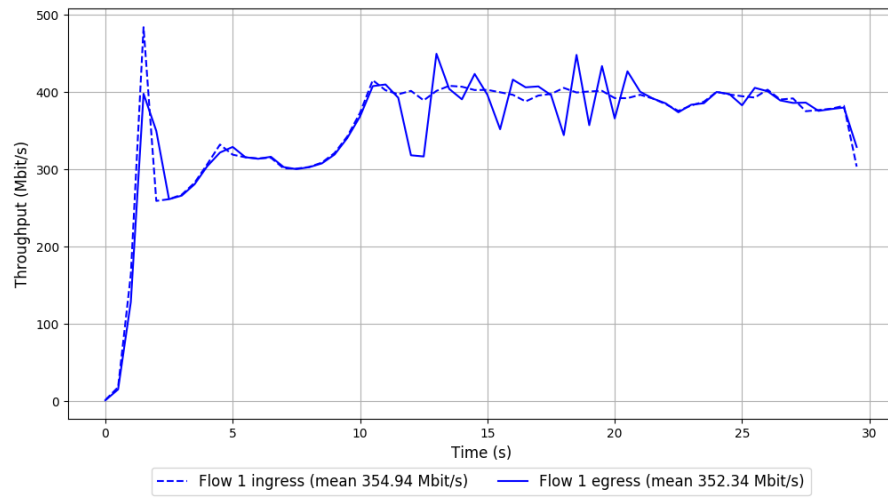
-- Flow 1:

Average throughput: 352.34 Mbit/s

95th percentile per-packet one-way delay: 165.550 ms

Loss rate: 0.73%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-26 01:02:31

End at: 2018-01-26 01:03:01

Below is generated by plot.py at 2018-01-26 02:54:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 322.78 Mbit/s

95th percentile per-packet one-way delay: 156.687 ms

Loss rate: 1.27%

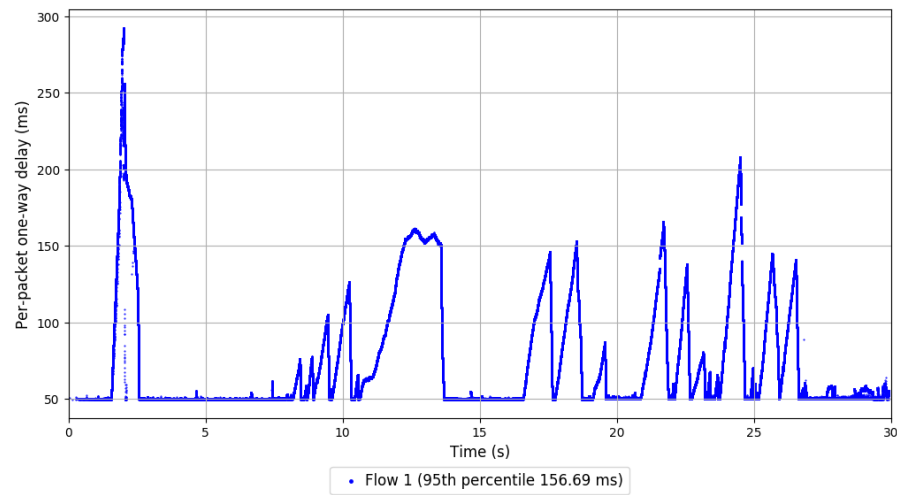
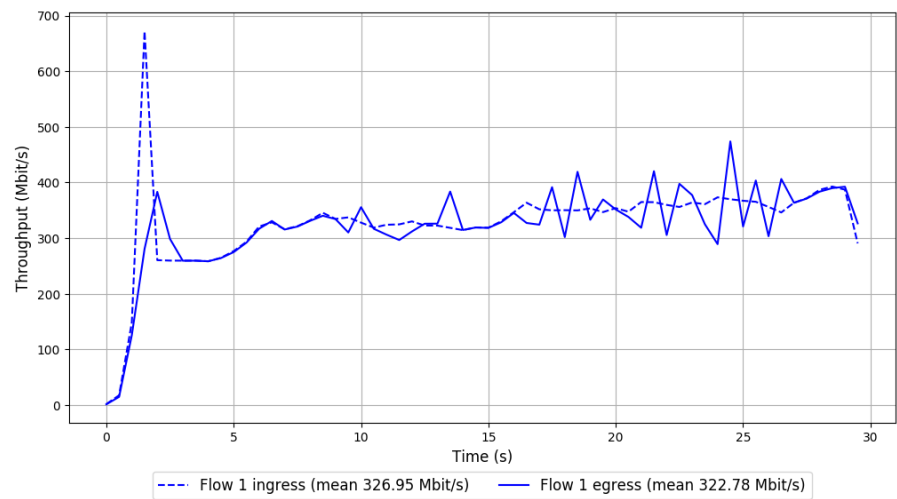
-- Flow 1:

Average throughput: 322.78 Mbit/s

95th percentile per-packet one-way delay: 156.687 ms

Loss rate: 1.27%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-26 01:14:15

End at: 2018-01-26 01:14:45

Below is generated by plot.py at 2018-01-26 02:55:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 323.20 Mbit/s

95th percentile per-packet one-way delay: 186.218 ms

Loss rate: 0.74%

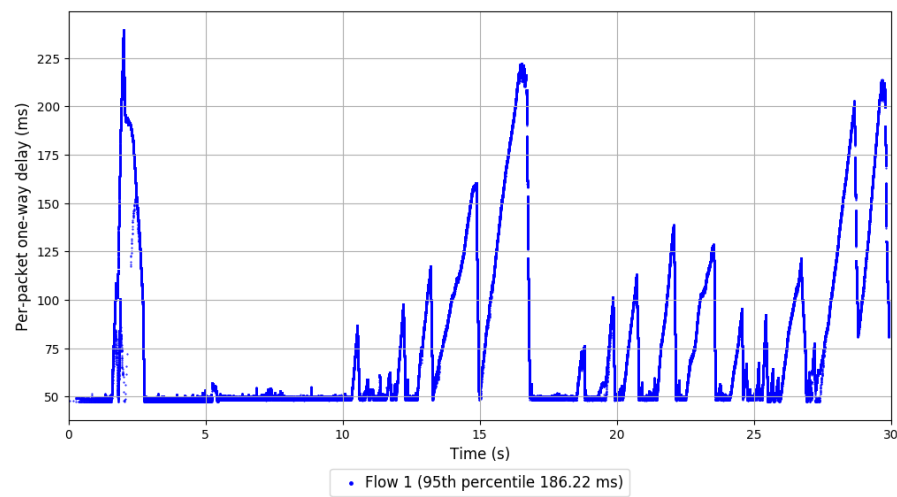
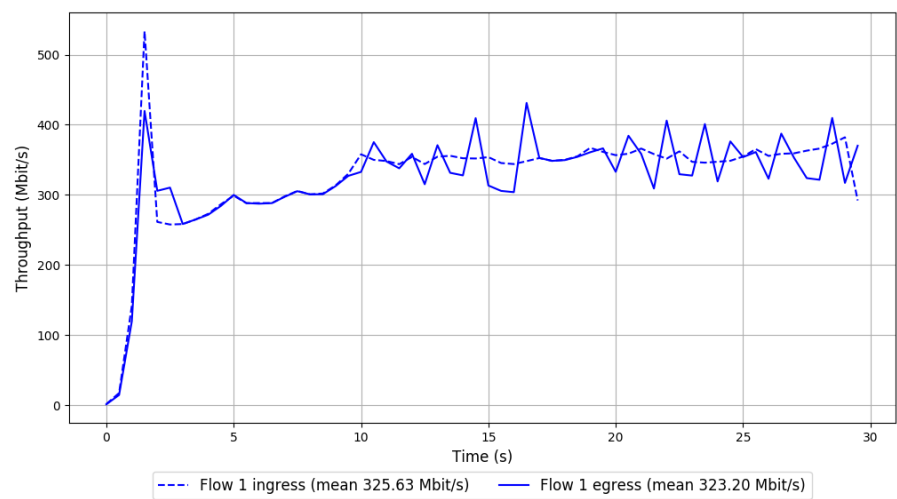
-- Flow 1:

Average throughput: 323.20 Mbit/s

95th percentile per-packet one-way delay: 186.218 ms

Loss rate: 0.74%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-26 01:25:56

End at: 2018-01-26 01:26:26

Below is generated by plot.py at 2018-01-26 02:55:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 293.72 Mbit/s

95th percentile per-packet one-way delay: 212.941 ms

Loss rate: 1.39%

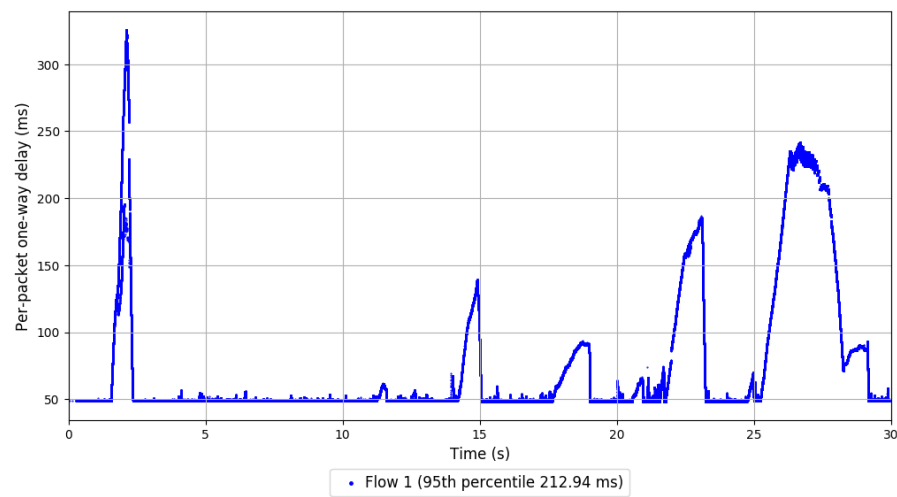
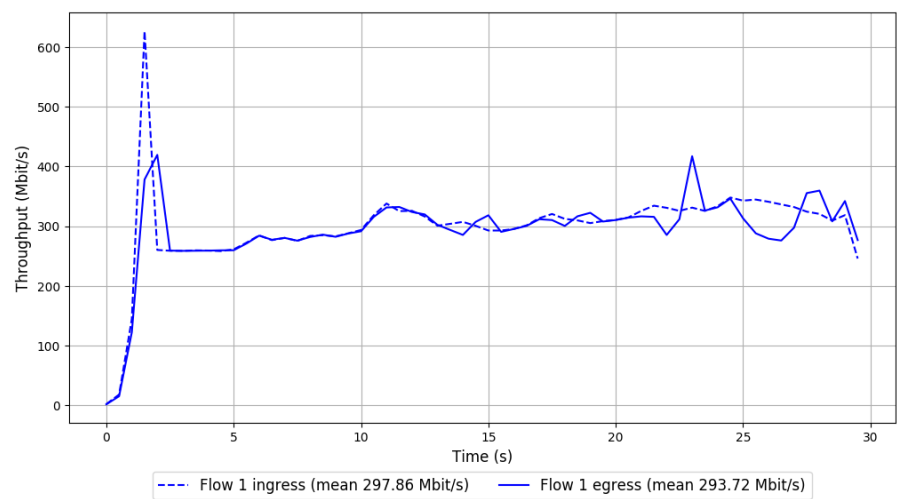
-- Flow 1:

Average throughput: 293.72 Mbit/s

95th percentile per-packet one-way delay: 212.941 ms

Loss rate: 1.39%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-26 01:37:29

End at: 2018-01-26 01:37:59

Below is generated by plot.py at 2018-01-26 03:00:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 376.25 Mbit/s

95th percentile per-packet one-way delay: 159.159 ms

Loss rate: 0.01%

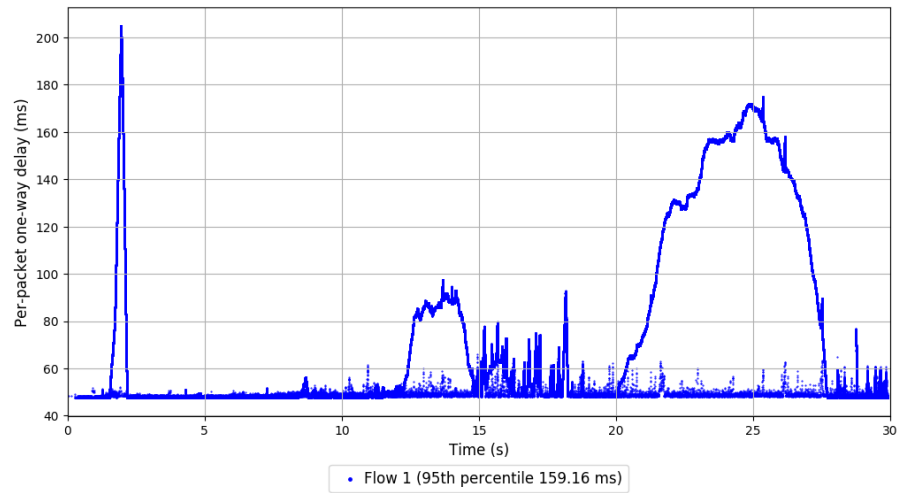
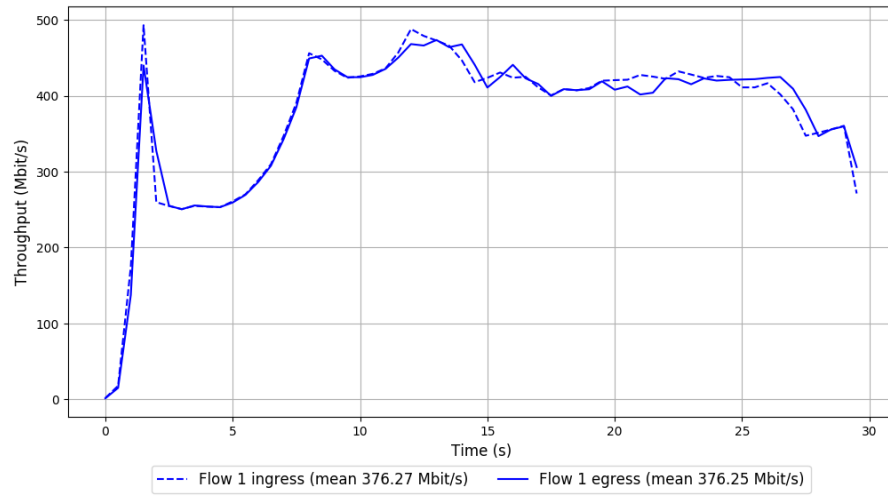
-- Flow 1:

Average throughput: 376.25 Mbit/s

95th percentile per-packet one-way delay: 159.159 ms

Loss rate: 0.01%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-01-26 01:48:56

End at: 2018-01-26 01:49:26

Below is generated by plot.py at 2018-01-26 03:00:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 382.63 Mbit/s

95th percentile per-packet one-way delay: 114.214 ms

Loss rate: 0.01%

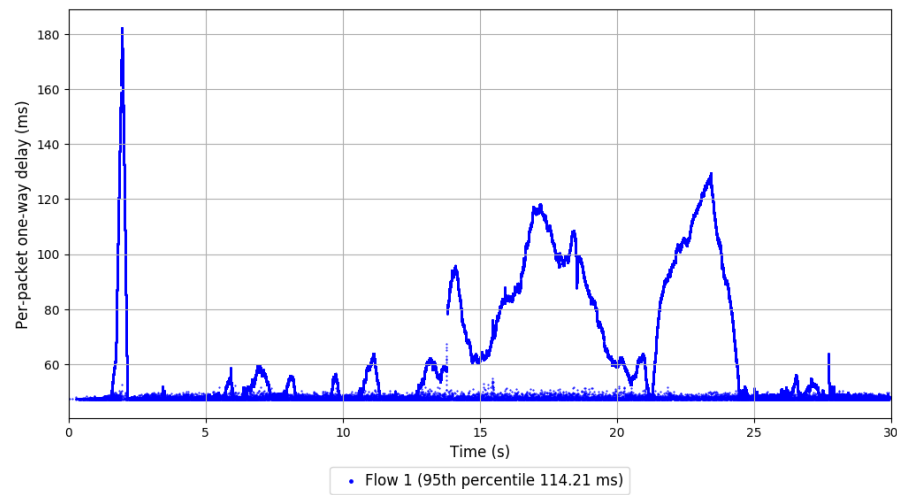
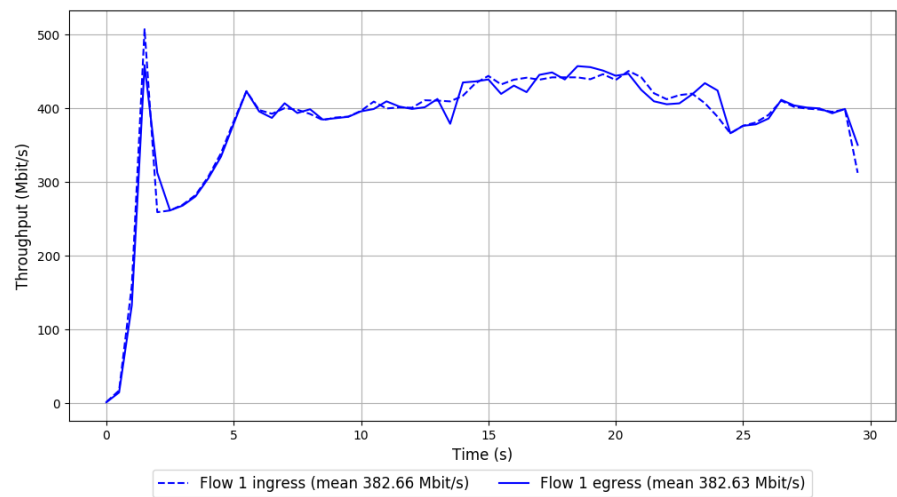
-- Flow 1:

Average throughput: 382.63 Mbit/s

95th percentile per-packet one-way delay: 114.214 ms

Loss rate: 0.01%

Run 10: Report of PCC — Data Link

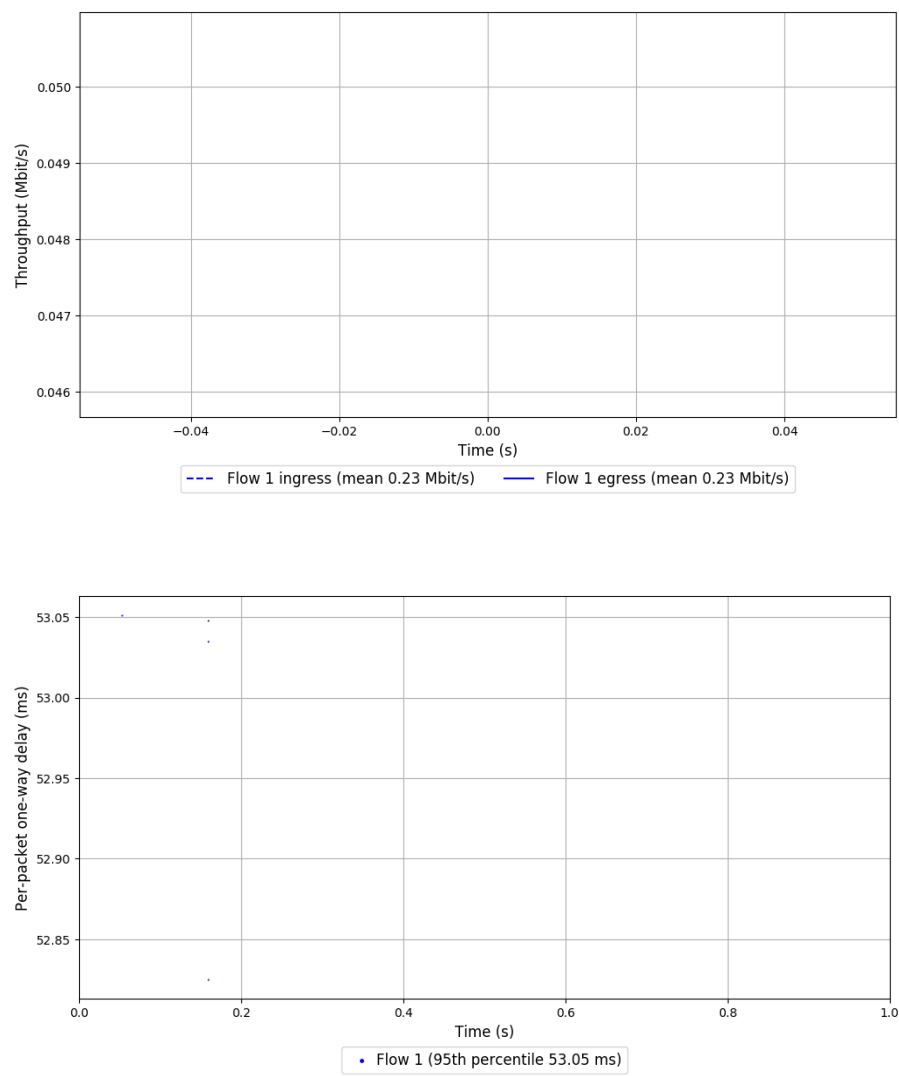


Run 1: Statistics of QUIC Cubic

Start at: 2018-01-26 00:06:30

End at: 2018-01-26 00:07:00

Run 1: Report of QUIC Cubic — Data Link

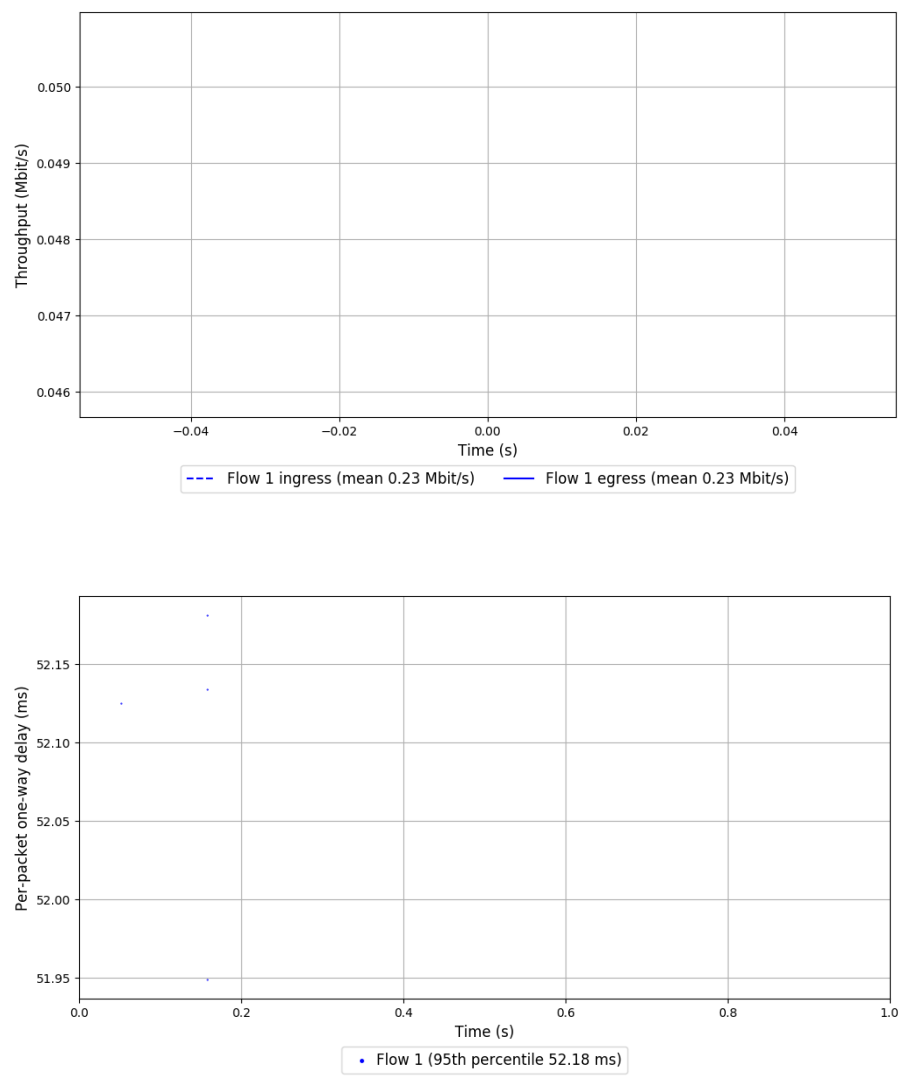


Run 2: Statistics of QUIC Cubic

Start at: 2018-01-26 00:18:14

End at: 2018-01-26 00:18:44

Run 2: Report of QUIC Cubic — Data Link

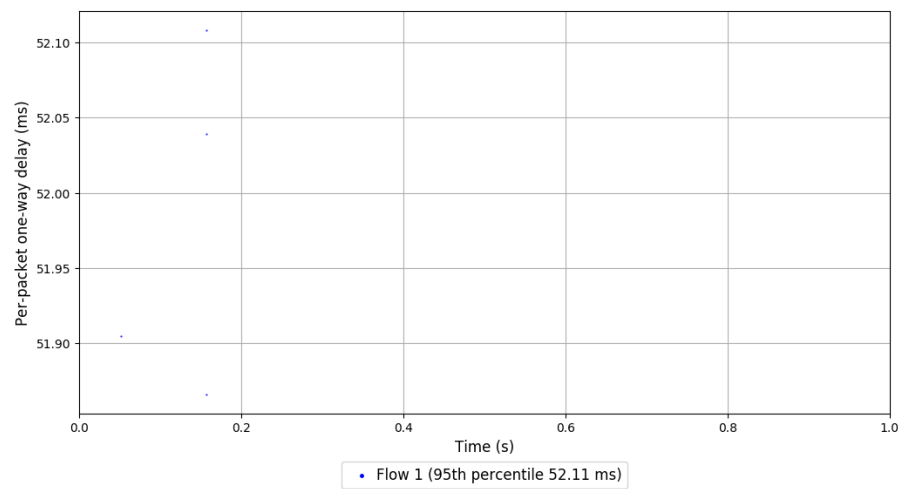
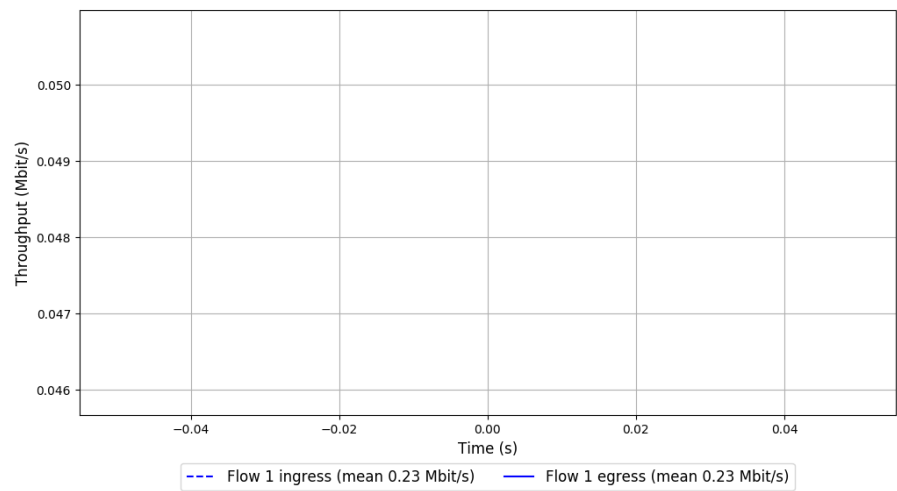


Run 3: Statistics of QUIC Cubic

Start at: 2018-01-26 00:29:54

End at: 2018-01-26 00:30:24

Run 3: Report of QUIC Cubic — Data Link

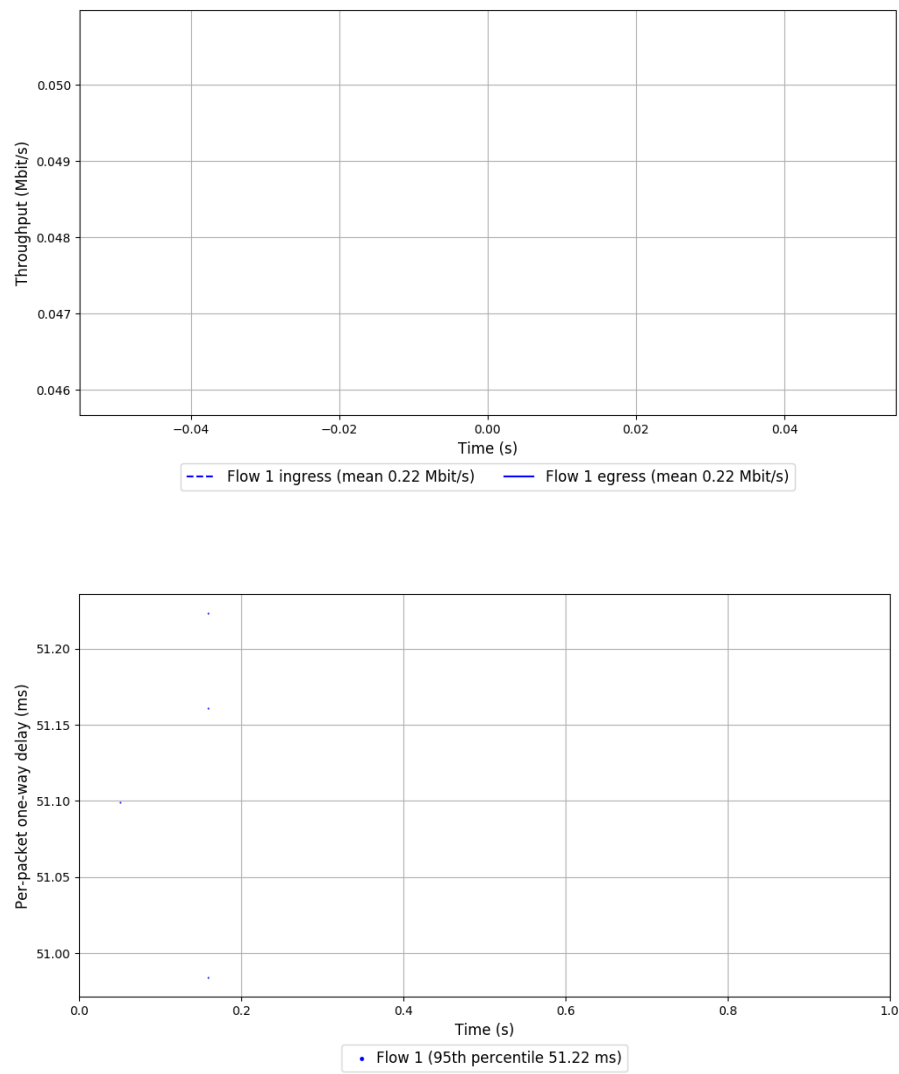


Run 4: Statistics of QUIC Cubic

Start at: 2018-01-26 00:41:35

End at: 2018-01-26 00:42:05

Run 4: Report of QUIC Cubic — Data Link

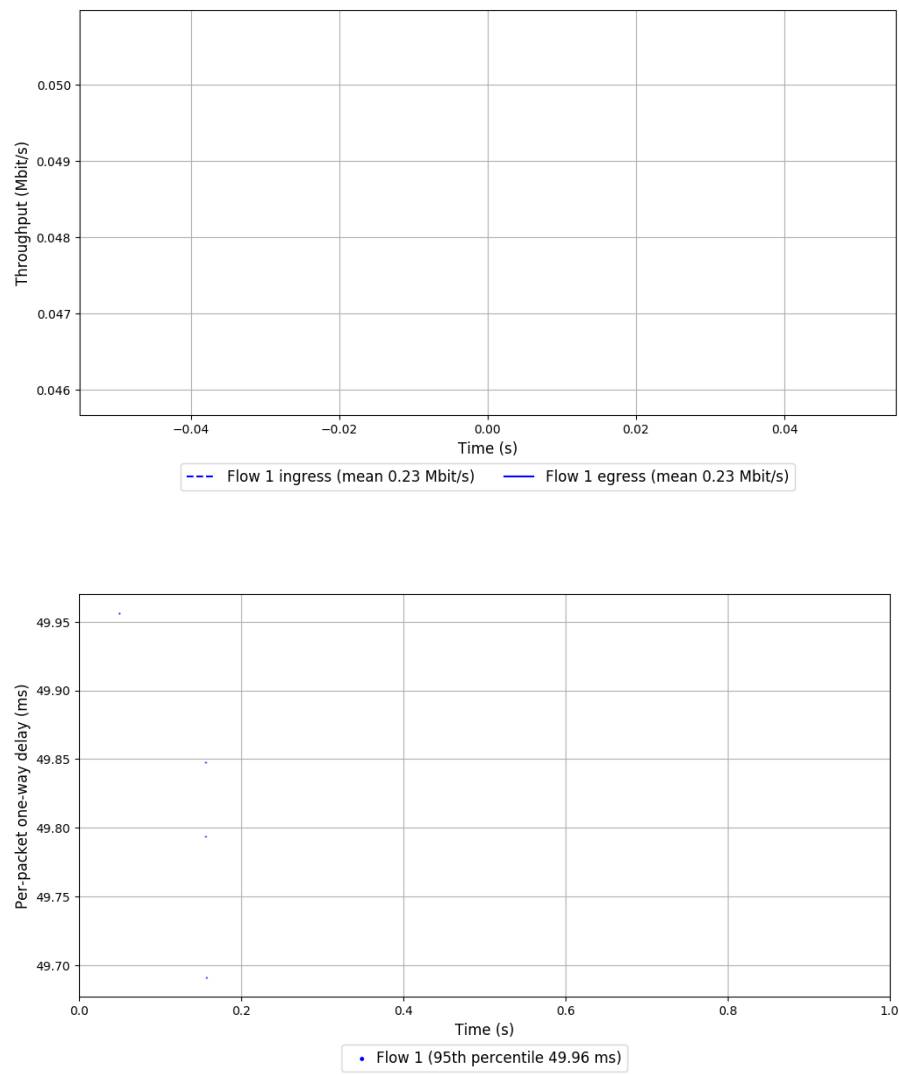


Run 5: Statistics of QUIC Cubic

Start at: 2018-01-26 00:52:48

End at: 2018-01-26 00:53:18

Run 5: Report of QUIC Cubic — Data Link

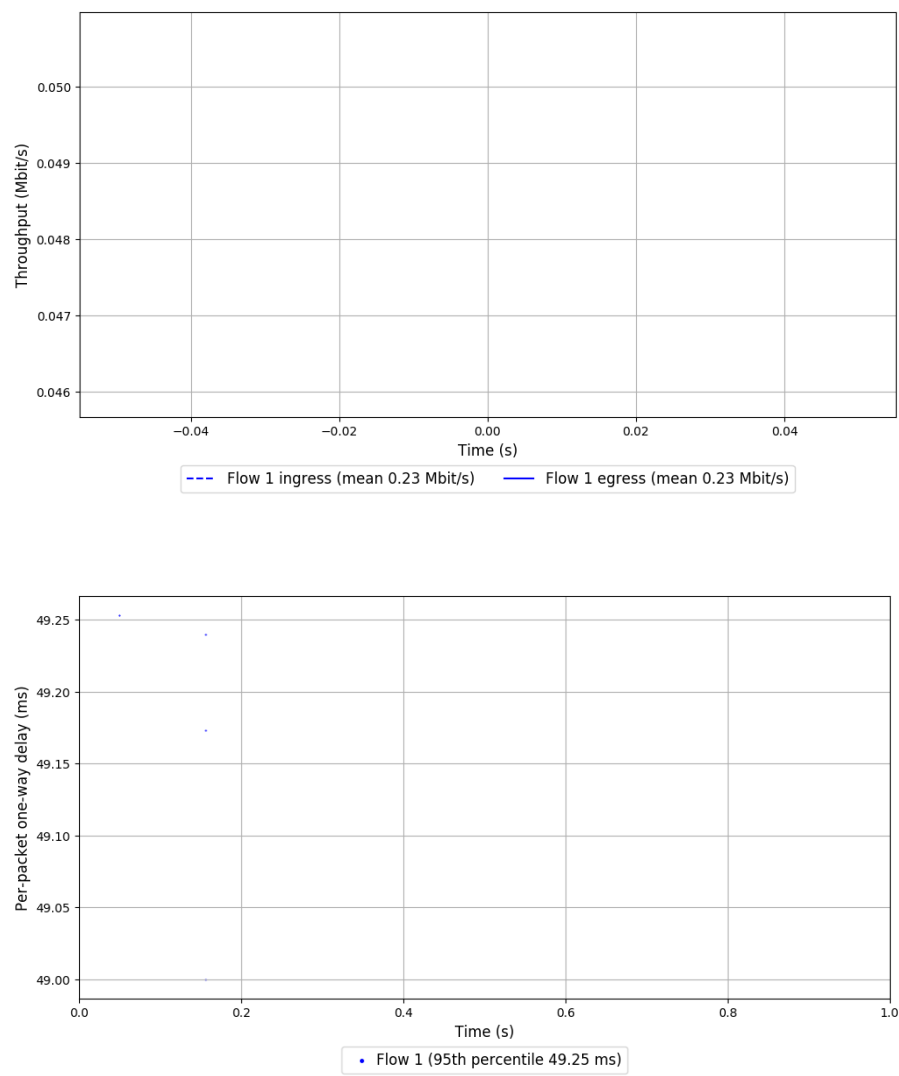


Run 6: Statistics of QUIC Cubic

Start at: 2018-01-26 01:04:05

End at: 2018-01-26 01:04:35

Run 6: Report of QUIC Cubic — Data Link

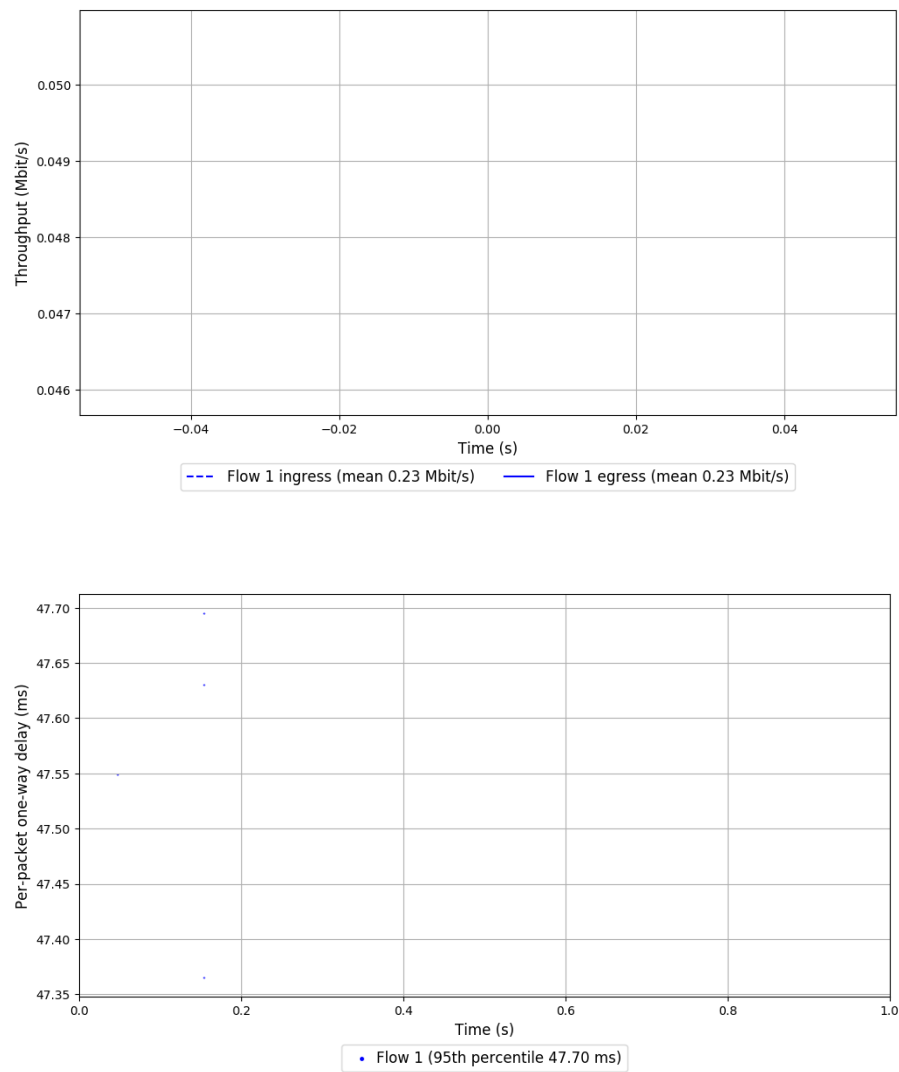


Run 7: Statistics of QUIC Cubic

Start at: 2018-01-26 01:15:47

End at: 2018-01-26 01:16:17

Run 7: Report of QUIC Cubic — Data Link

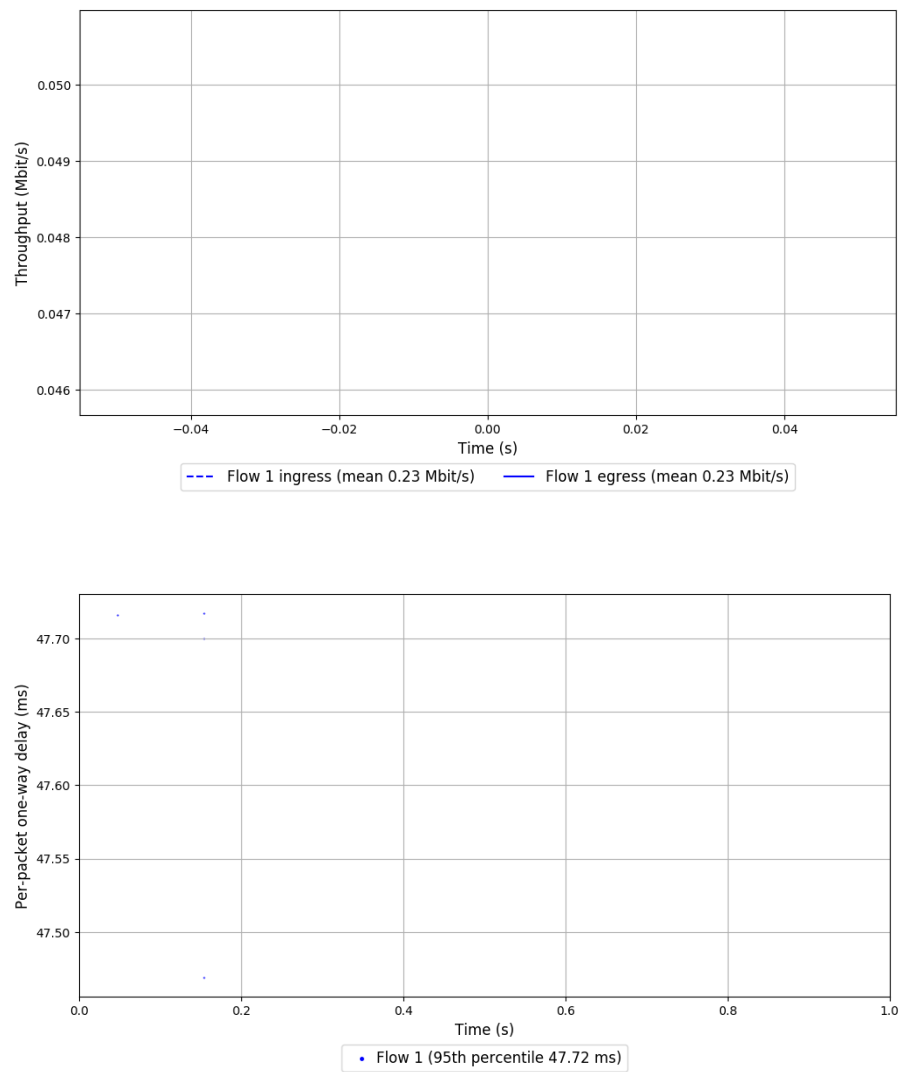


Run 8: Statistics of QUIC Cubic

Start at: 2018-01-26 01:27:28

End at: 2018-01-26 01:27:58

Run 8: Report of QUIC Cubic — Data Link

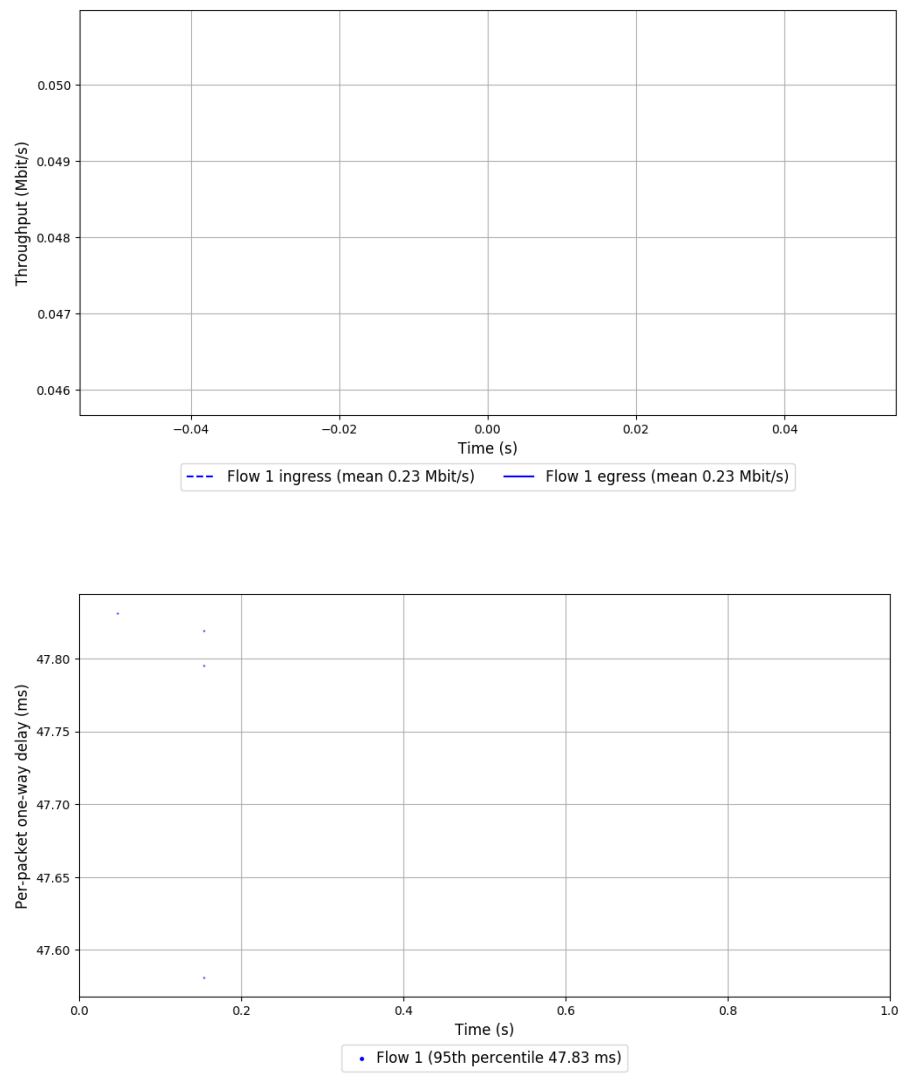


Run 9: Statistics of QUIC Cubic

Start at: 2018-01-26 01:39:04

End at: 2018-01-26 01:39:34

Run 9: Report of QUIC Cubic — Data Link

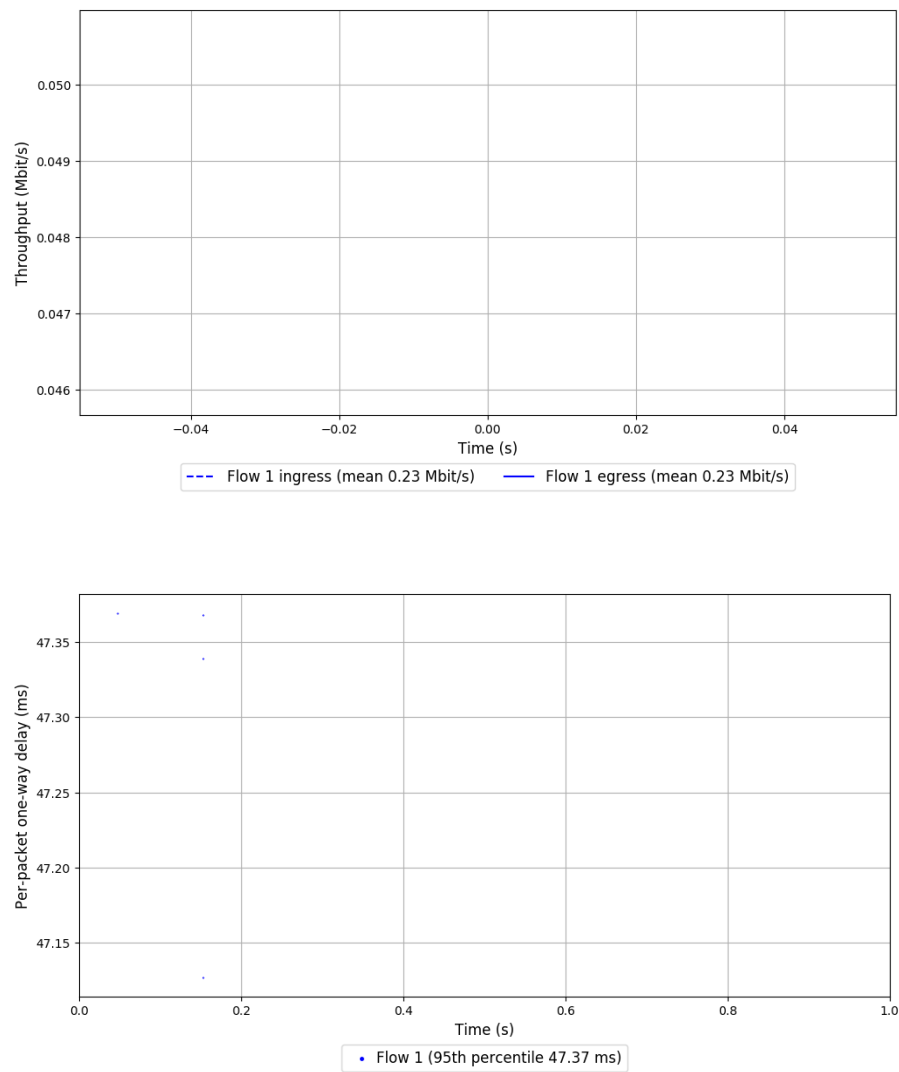


Run 10: Statistics of QUIC Cubic

Start at: 2018-01-26 01:50:31

End at: 2018-01-26 01:51:01

Run 10: Report of QUIC Cubic — Data Link

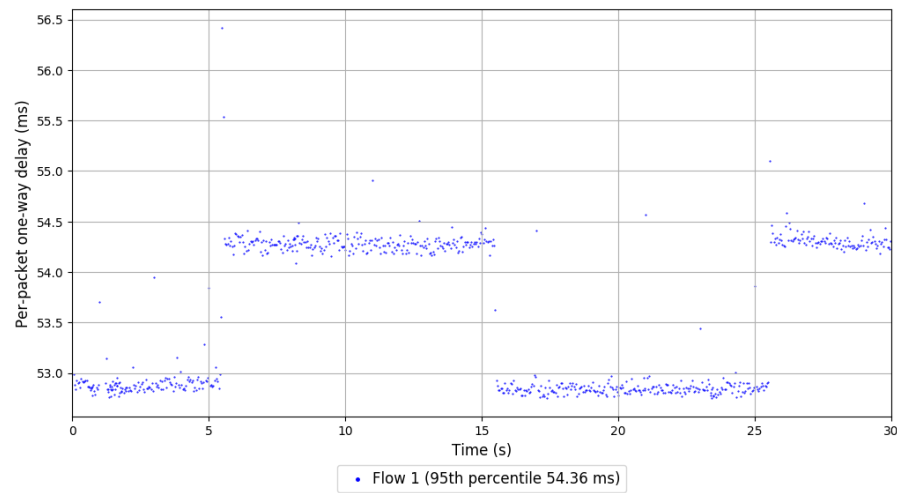
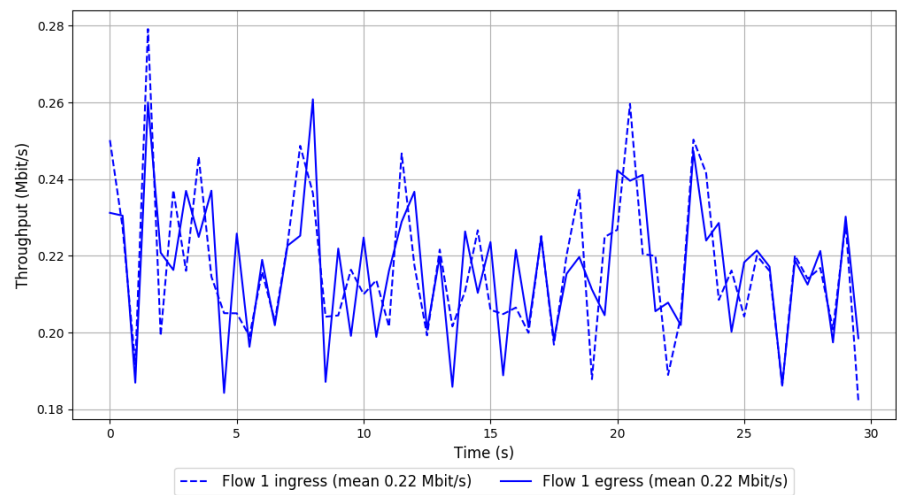


```
Run 1: Statistics of SCReAM

Start at: 2018-01-26 00:08:35
End at: 2018-01-26 00:09:05

# Below is generated by plot.py at 2018-01-26 03:00:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 54.364 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 54.364 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

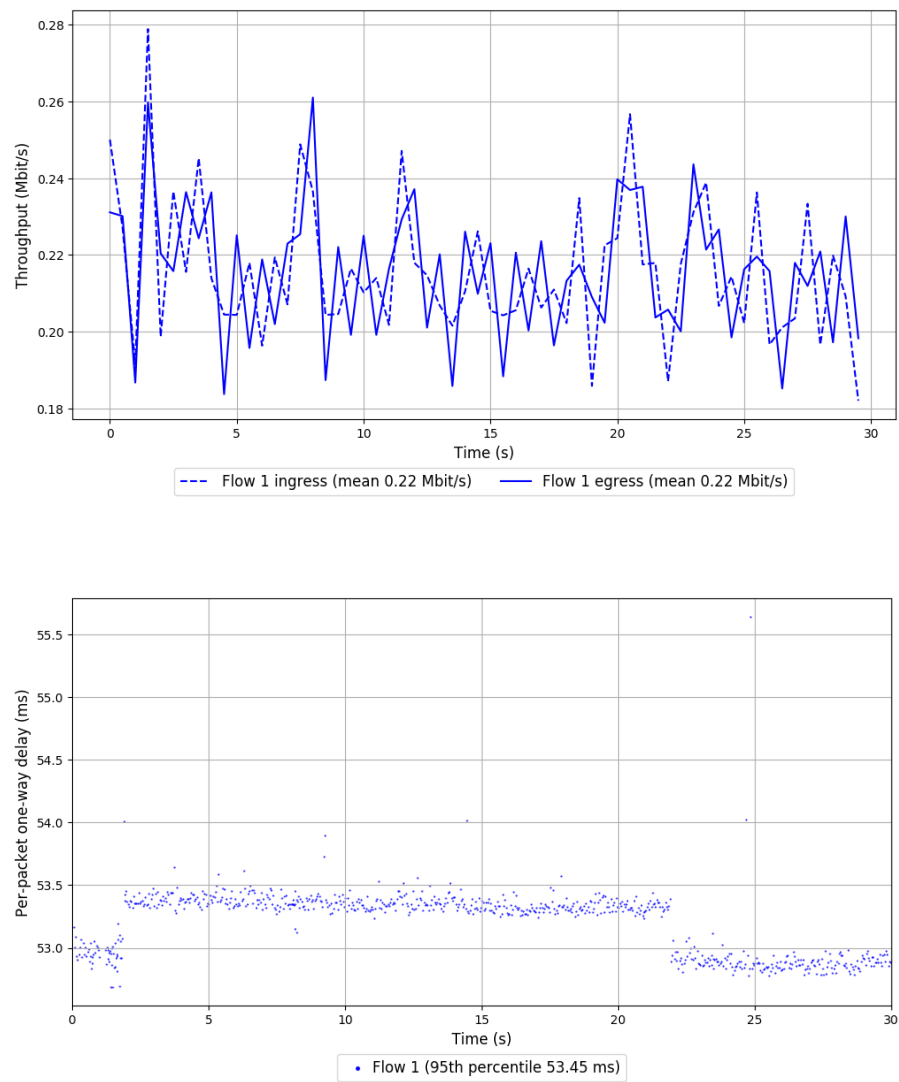


```
Run 2: Statistics of SCReAM

Start at: 2018-01-26 00:20:19
End at: 2018-01-26 00:20:49

# Below is generated by plot.py at 2018-01-26 03:00:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.451 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.451 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-01-26 00:31:59

End at: 2018-01-26 00:32:29

Below is generated by plot.py at 2018-01-26 03:00:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 52.185 ms

Loss rate: 0.00%

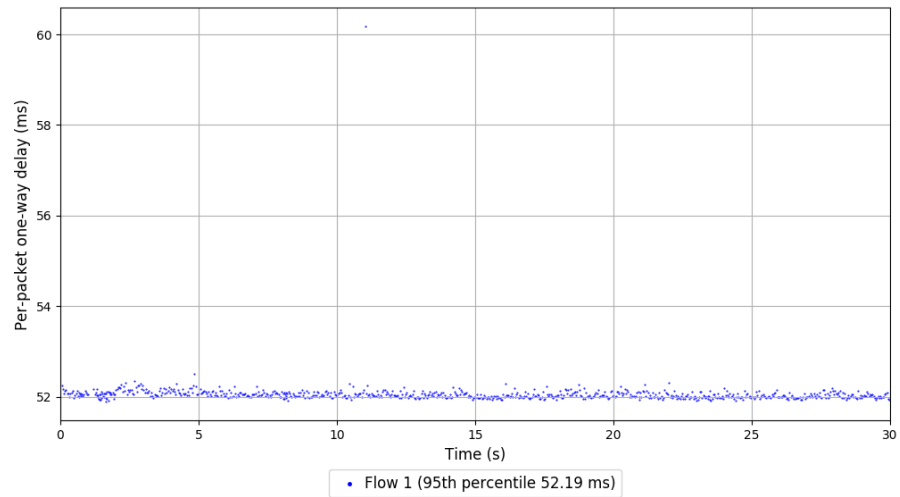
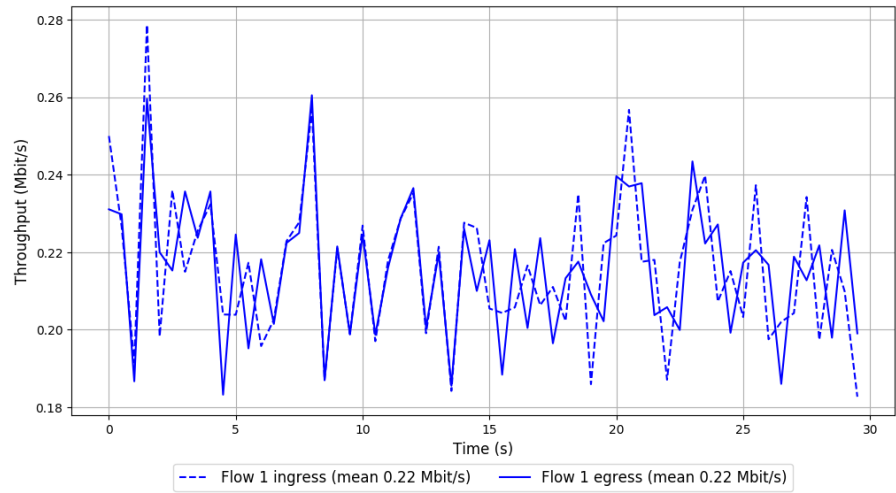
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 52.185 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

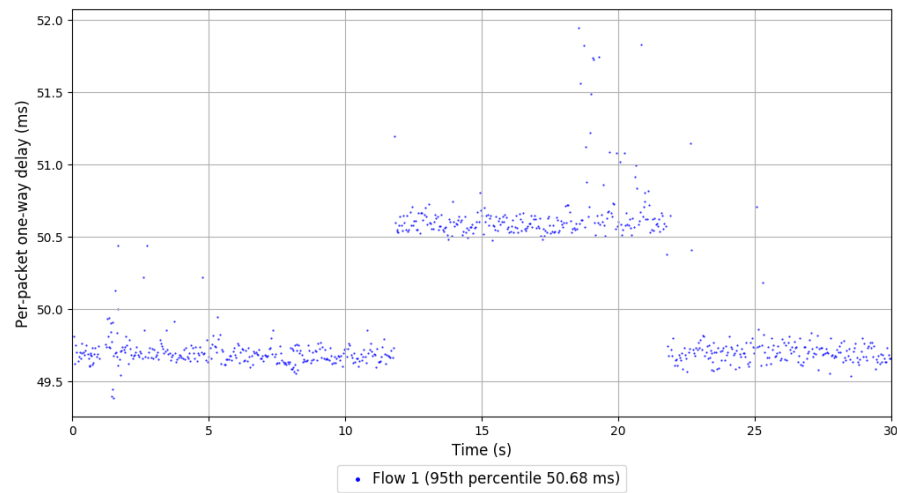
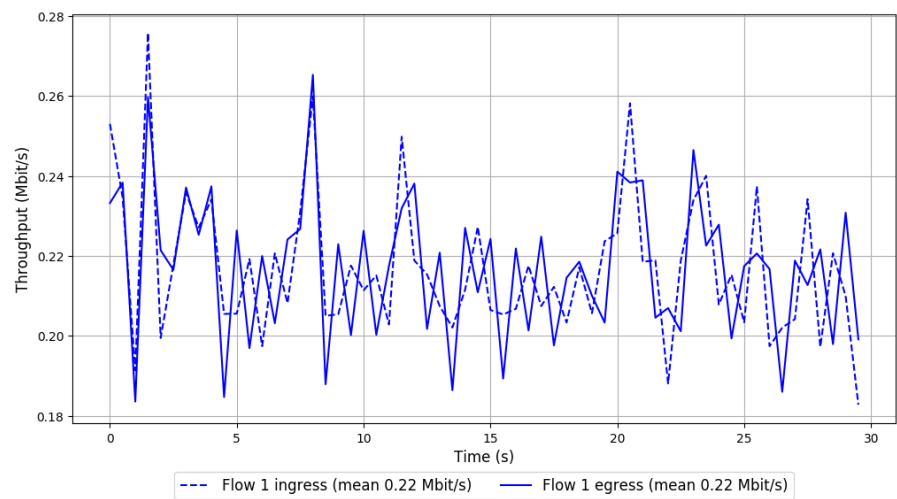


```
Run 4: Statistics of SCReAM

Start at: 2018-01-26 00:43:29
End at: 2018-01-26 00:43:59

# Below is generated by plot.py at 2018-01-26 03:00:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.681 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.681 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-01-26 00:54:45

End at: 2018-01-26 00:55:15

Below is generated by plot.py at 2018-01-26 03:00:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.111 ms

Loss rate: 0.00%

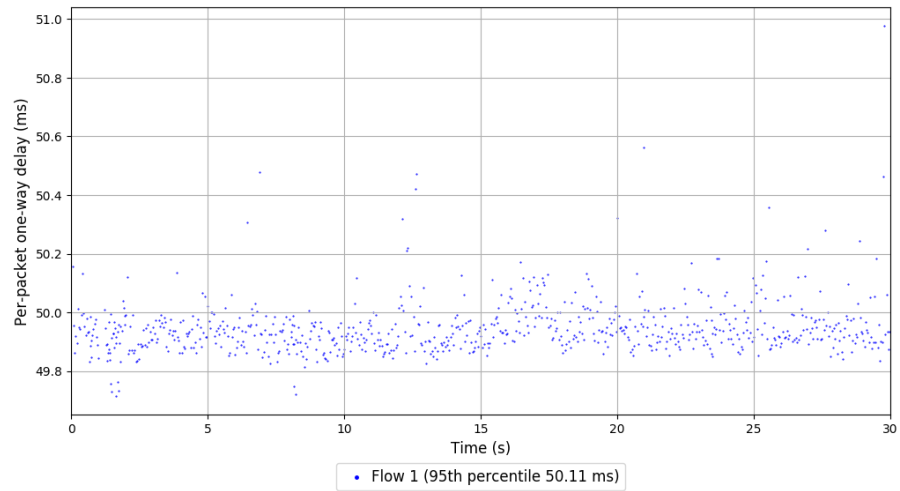
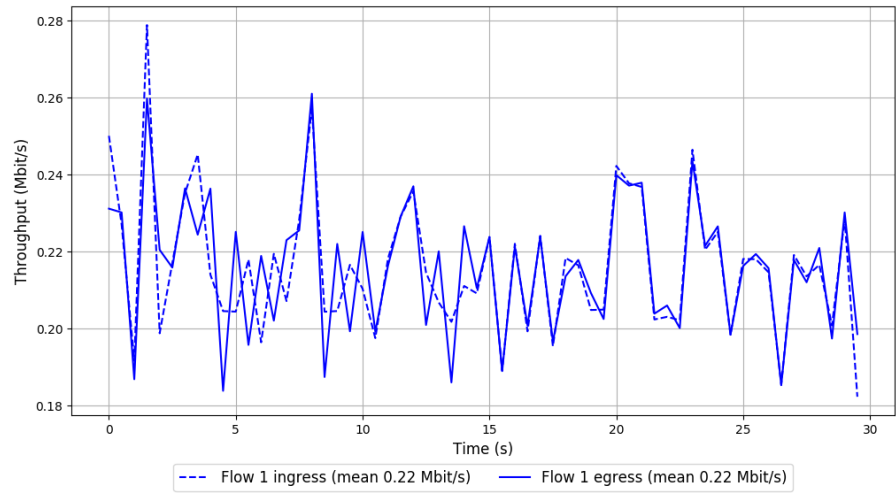
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.111 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

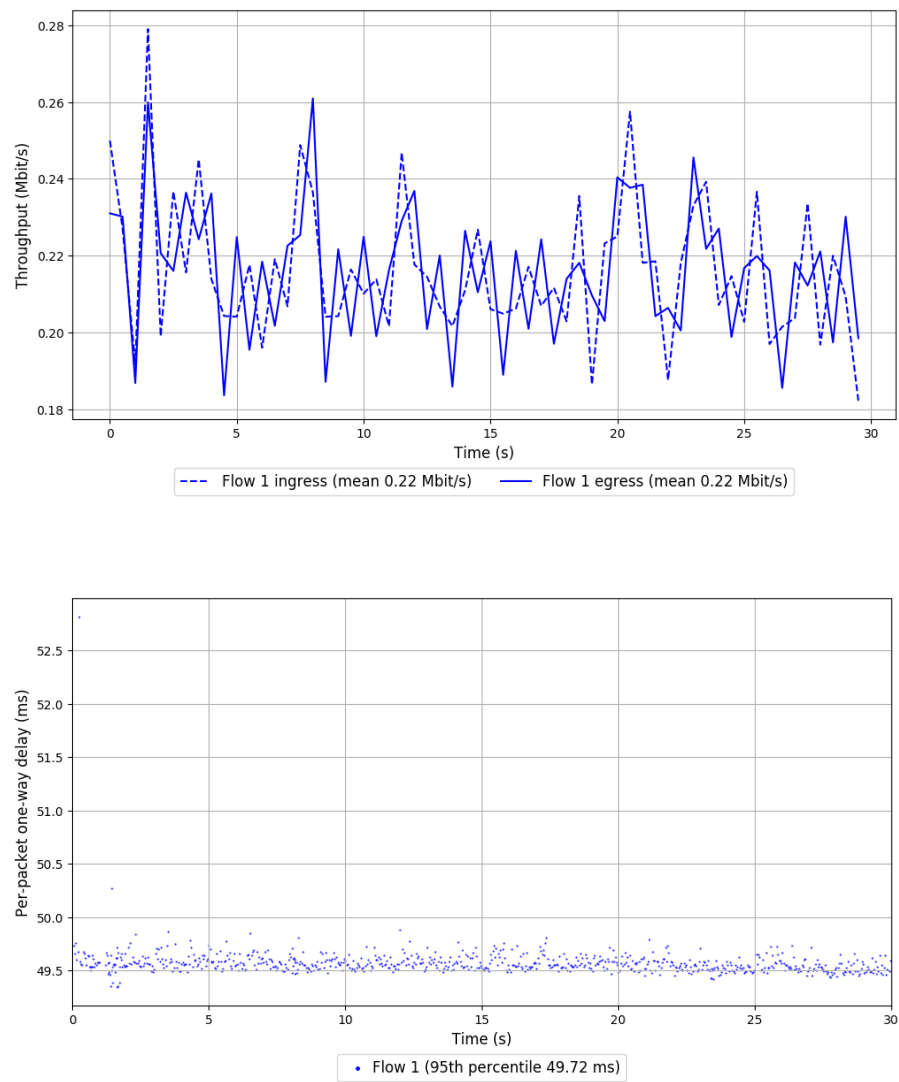


```
Run 6: Statistics of SCReAM

Start at: 2018-01-26 01:06:10
End at: 2018-01-26 01:06:40

# Below is generated by plot.py at 2018-01-26 03:00:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.716 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.716 ms
Loss rate: 0.00%
```

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-01-26 01:17:52

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

Below is generated by plot.py at 2018-01-26 03:00:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.622 ms

Loss rate: 0.00%

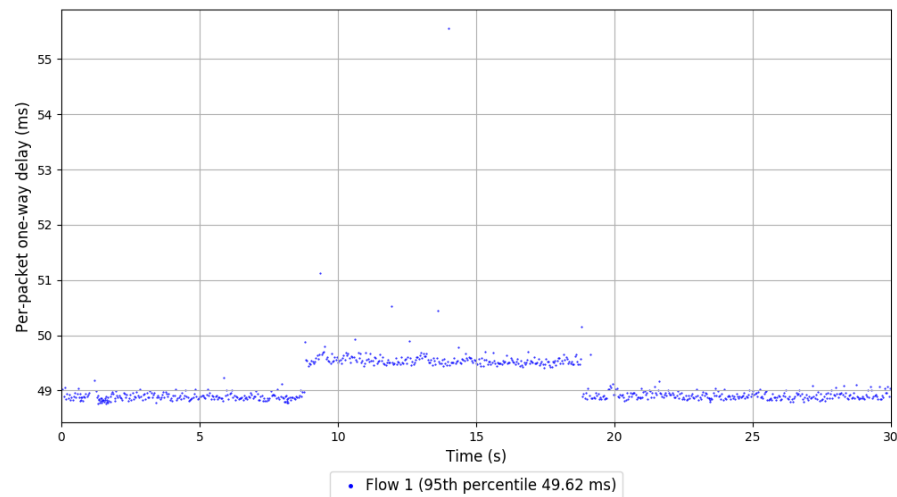
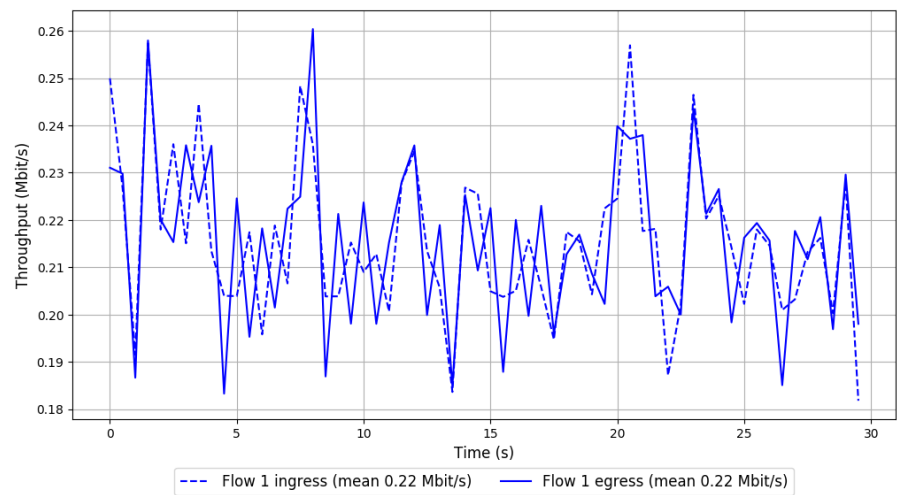
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.622 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-26 01:29:34

End at: 2018-01-26 01:30:04

Below is generated by plot.py at 2018-01-26 03:00:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.012 ms

Loss rate: 0.00%

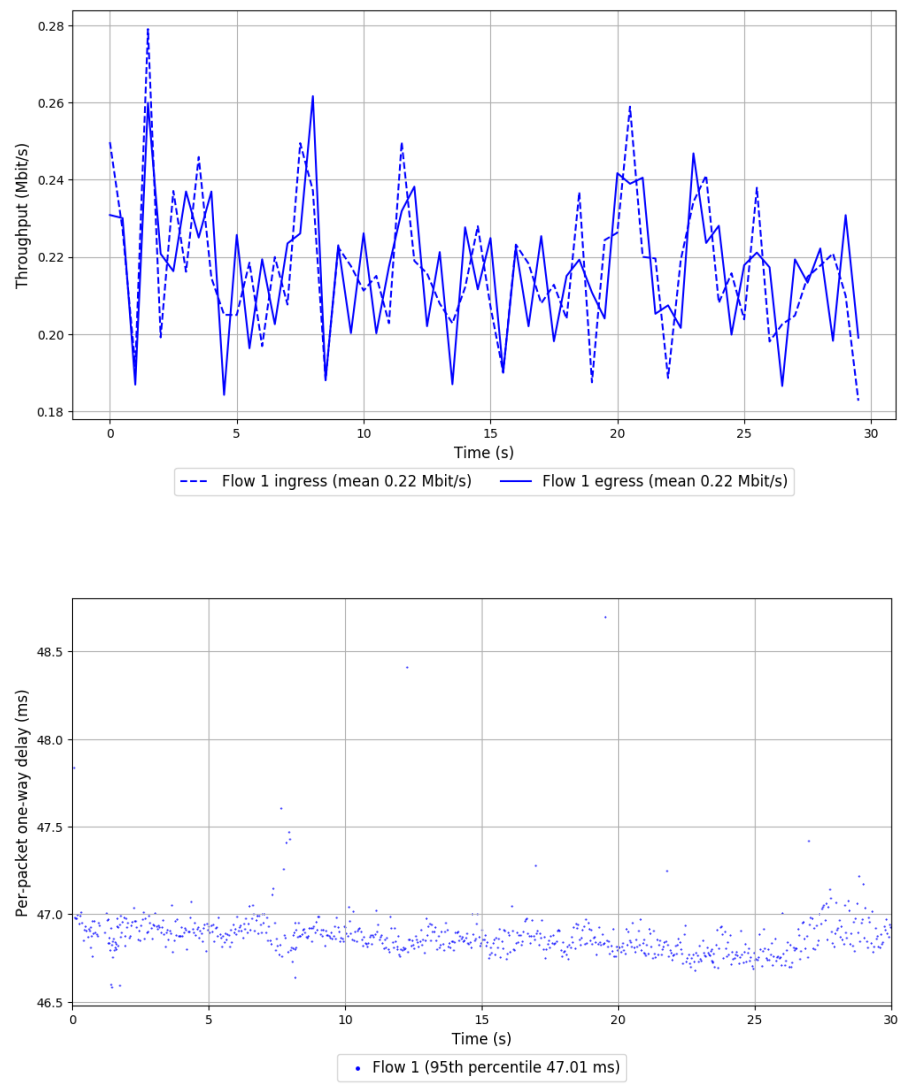
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.012 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-01-26 01:40:57

End at: 2018-01-26 01:41:27

Below is generated by plot.py at 2018-01-26 03:00:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 46.370 ms

Loss rate: 0.00%

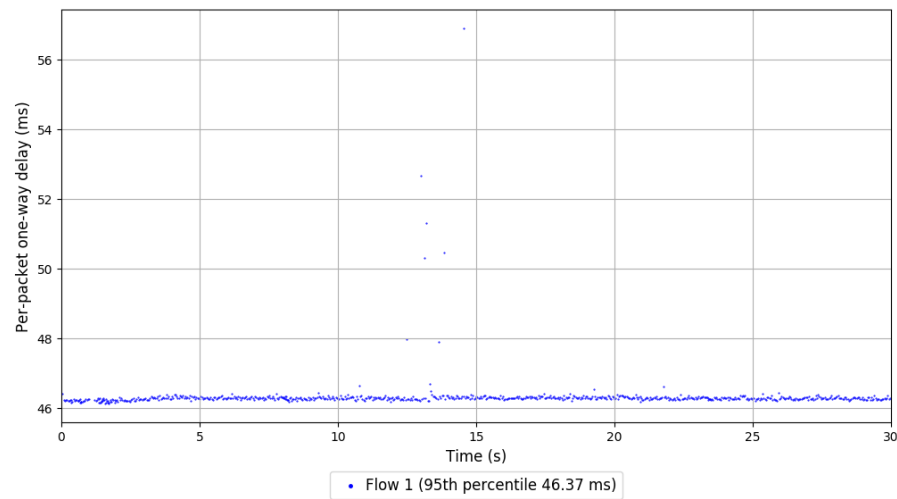
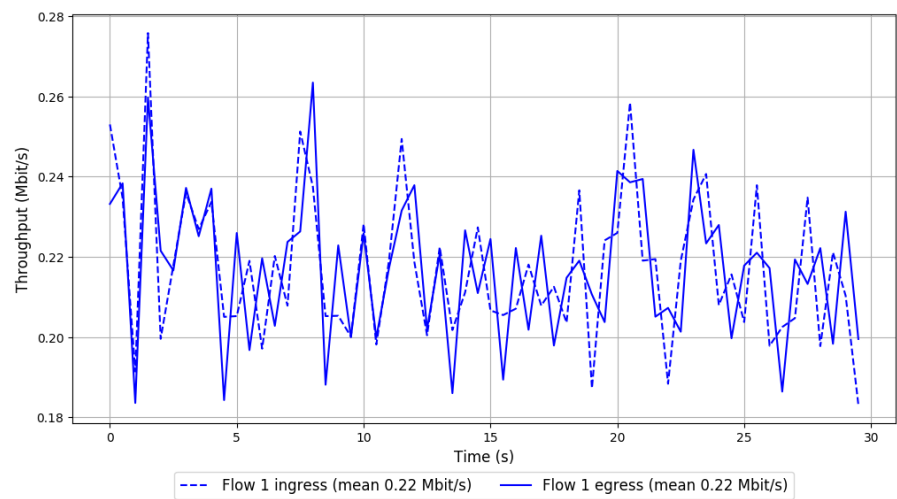
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 46.370 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-01-26 01:52:34

End at: 2018-01-26 01:53:04

Below is generated by plot.py at 2018-01-26 03:00:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.769 ms

Loss rate: 0.00%

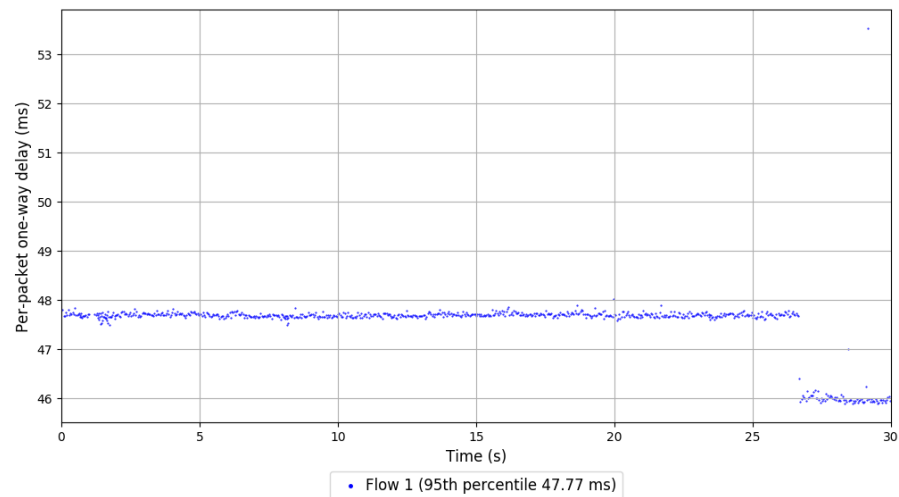
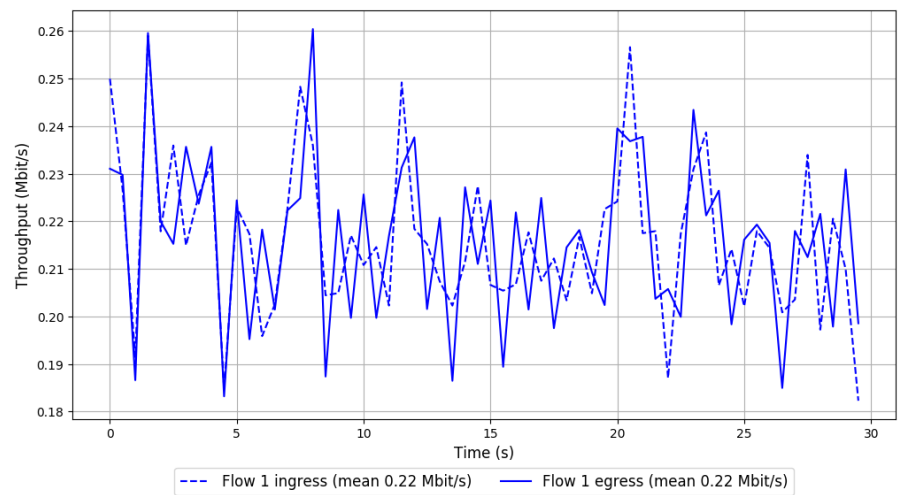
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.769 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

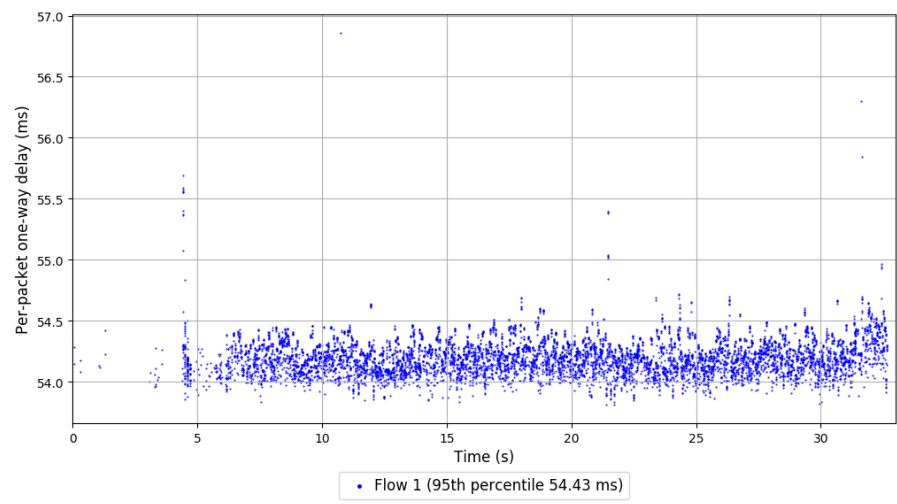
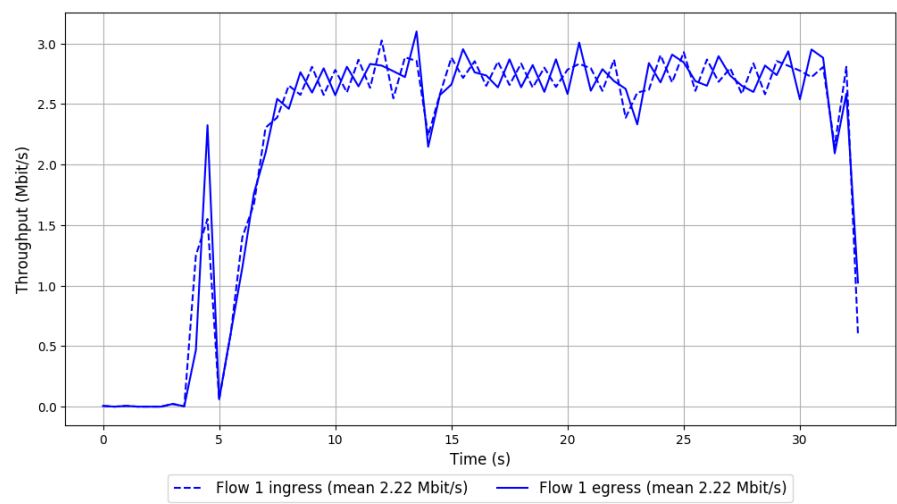


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-26 00:03:32
End at: 2018-01-26 00:04:02

# Below is generated by plot.py at 2018-01-26 03:00:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 54.431 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 54.431 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-01-26 00:15:15

End at: 2018-01-26 00:15:45

Below is generated by plot.py at 2018-01-26 03:00:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.06 Mbit/s

95th percentile per-packet one-way delay: 52.791 ms

Loss rate: 0.00%

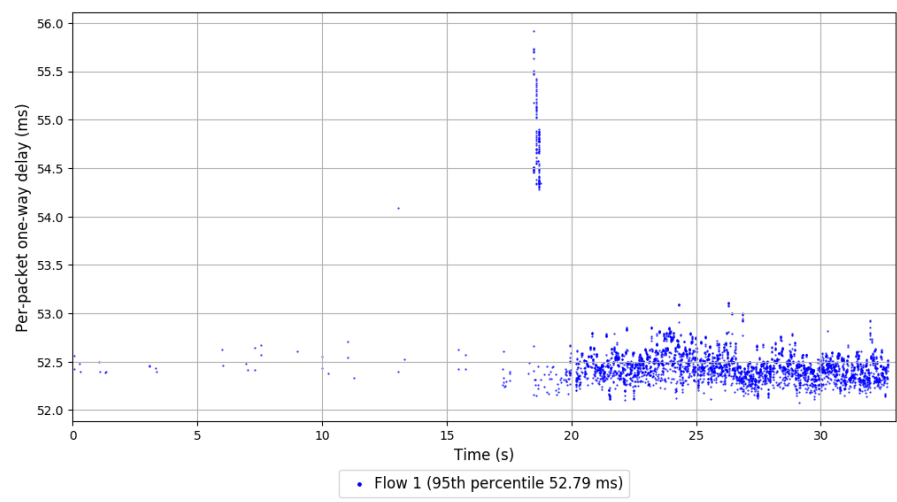
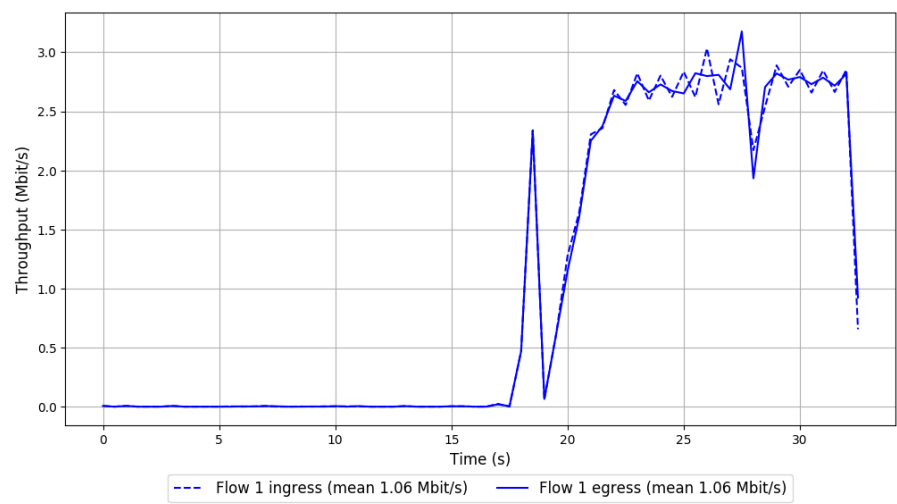
-- Flow 1:

Average throughput: 1.06 Mbit/s

95th percentile per-packet one-way delay: 52.791 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-26 00:26:56

End at: 2018-01-26 00:27:26

Below is generated by plot.py at 2018-01-26 03:00:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 51.612 ms

Loss rate: 0.00%

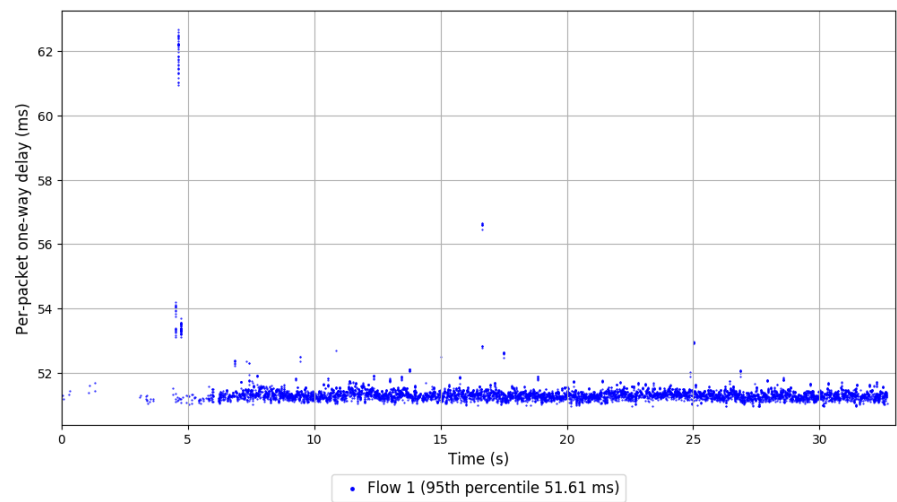
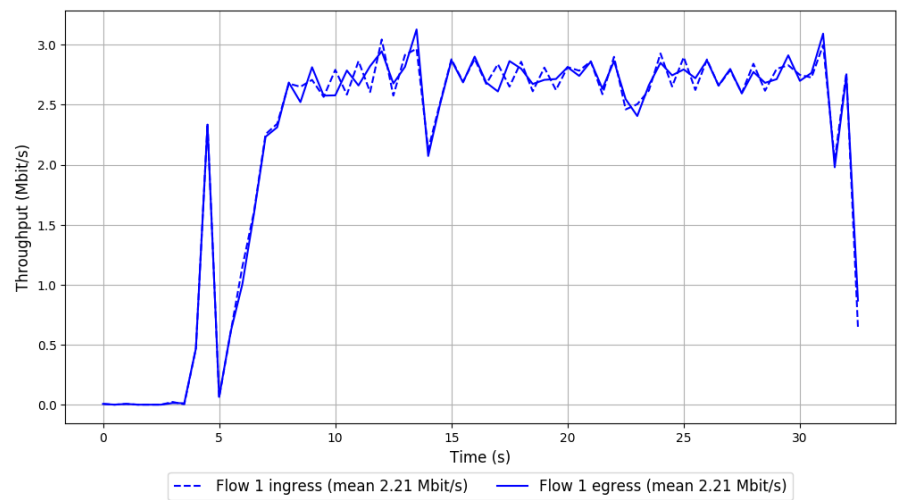
-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 51.612 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-26 00:38:40

End at: 2018-01-26 00:39:10

Below is generated by plot.py at 2018-01-26 03:00:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.07 Mbit/s

95th percentile per-packet one-way delay: 51.587 ms

Loss rate: 0.00%

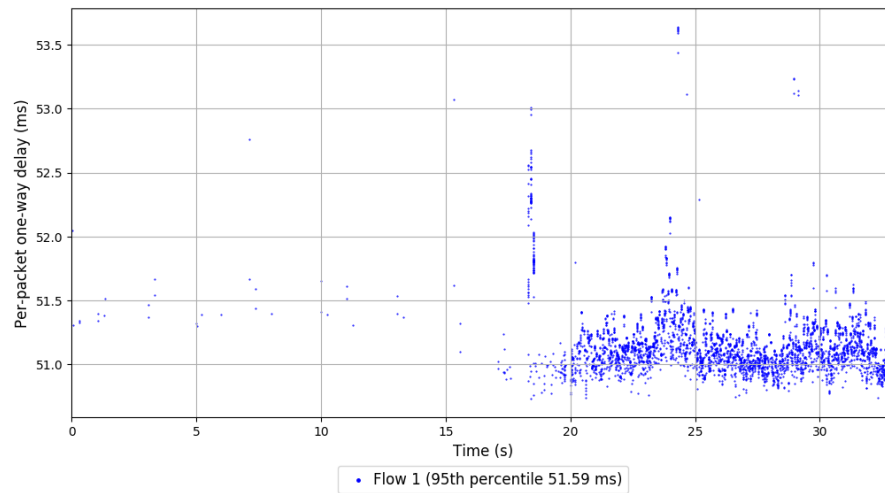
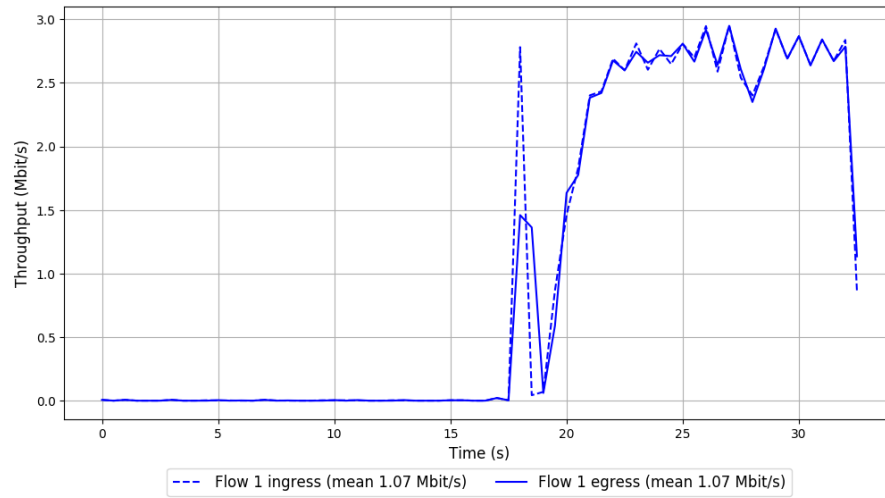
-- Flow 1:

Average throughput: 1.07 Mbit/s

95th percentile per-packet one-way delay: 51.587 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-26 00:49:49

End at: 2018-01-26 00:50:19

Below is generated by plot.py at 2018-01-26 03:00:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 51.653 ms

Loss rate: 0.00%

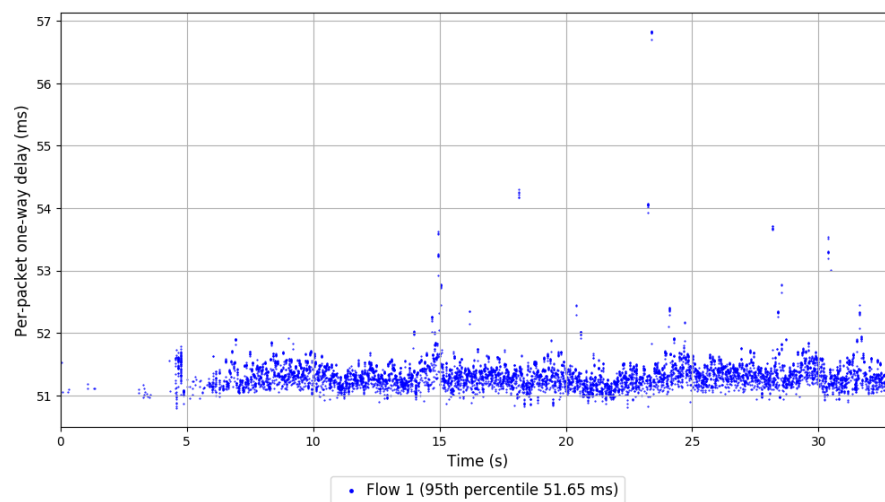
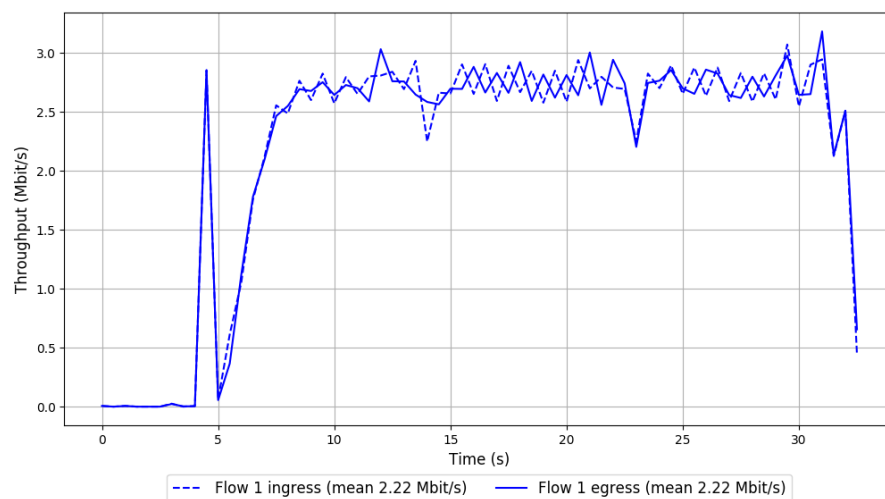
-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 51.653 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-26 01:01:06

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

Below is generated by plot.py at 2018-01-26 03:00:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 51.032 ms

Loss rate: 0.00%

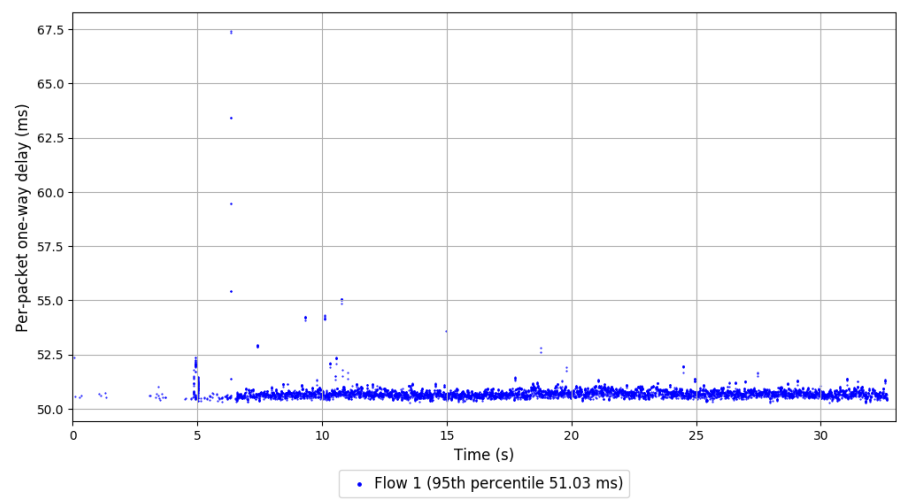
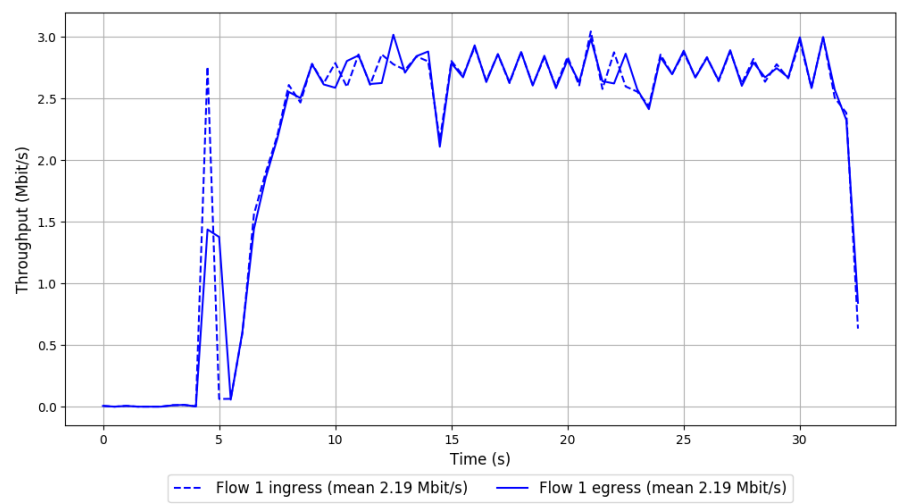
-- Flow 1:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 51.032 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-26 01:12:50

End at: 2018-01-26 01:13:20

Below is generated by plot.py at 2018-01-26 03:00:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 50.062 ms

Loss rate: 0.00%

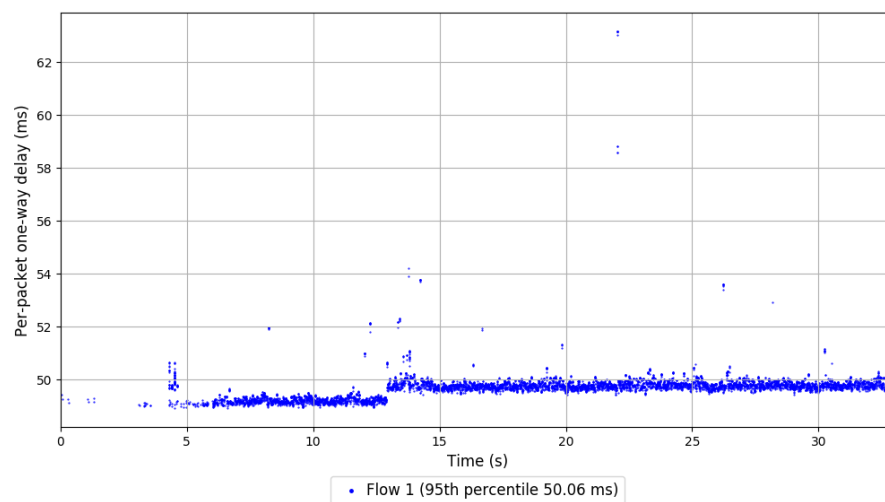
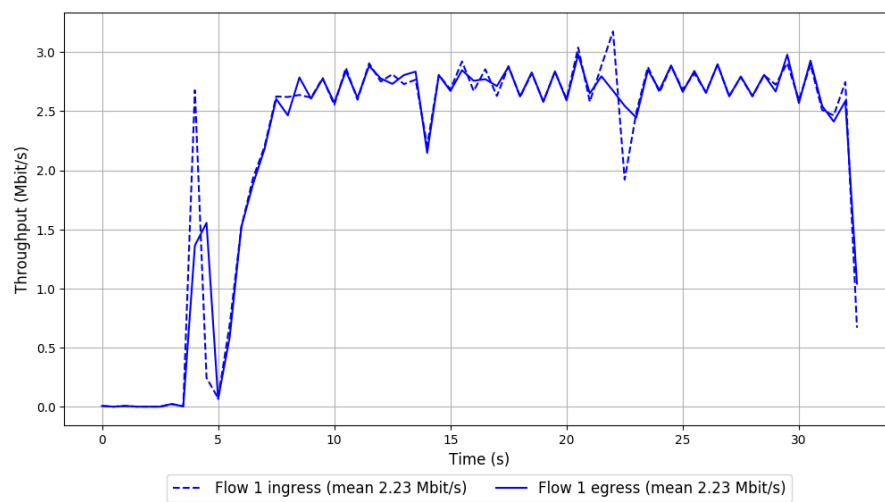
-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 50.062 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-26 01:24:30

End at: 2018-01-26 01:25:00

Below is generated by plot.py at 2018-01-26 03:00:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 47.413 ms

Loss rate: 0.00%

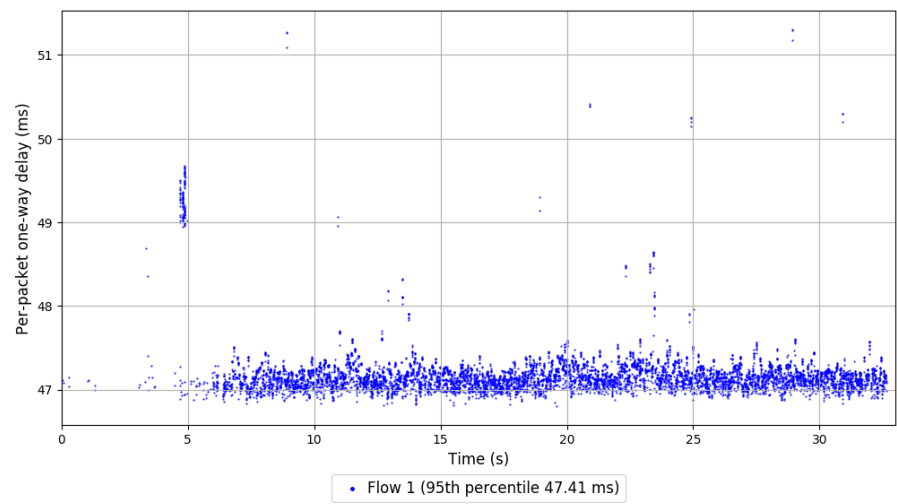
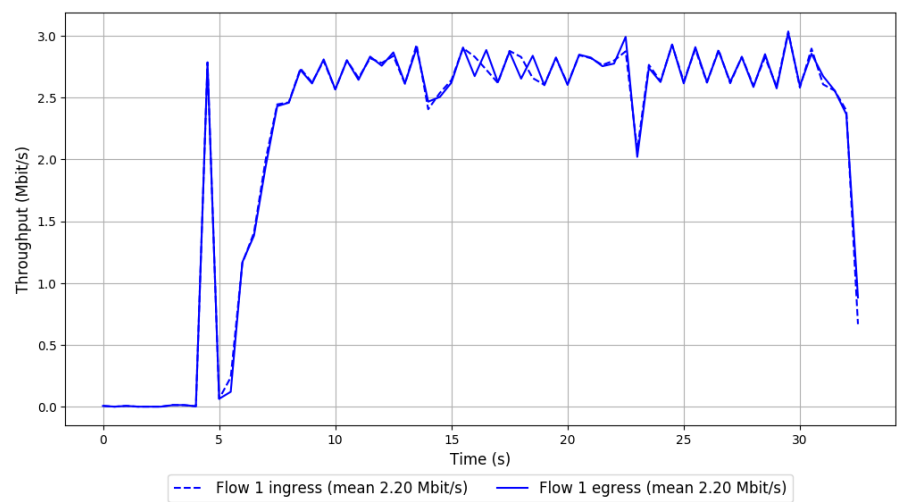
-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 47.413 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

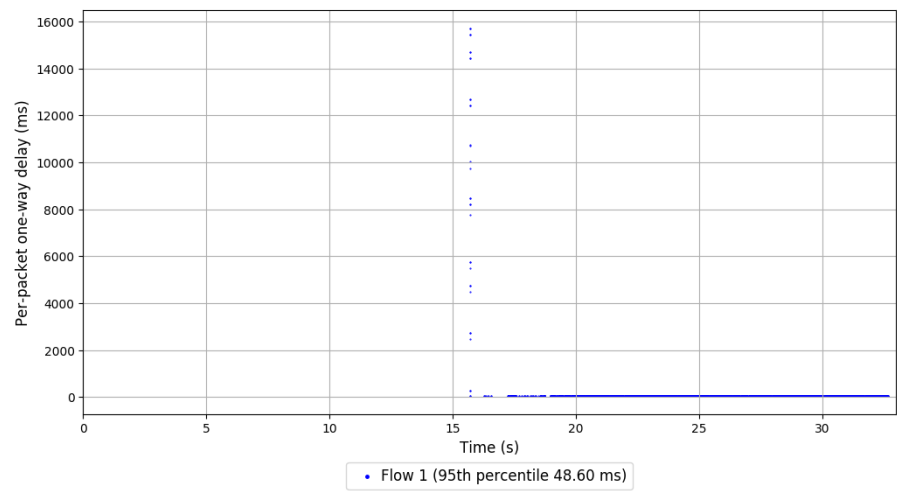
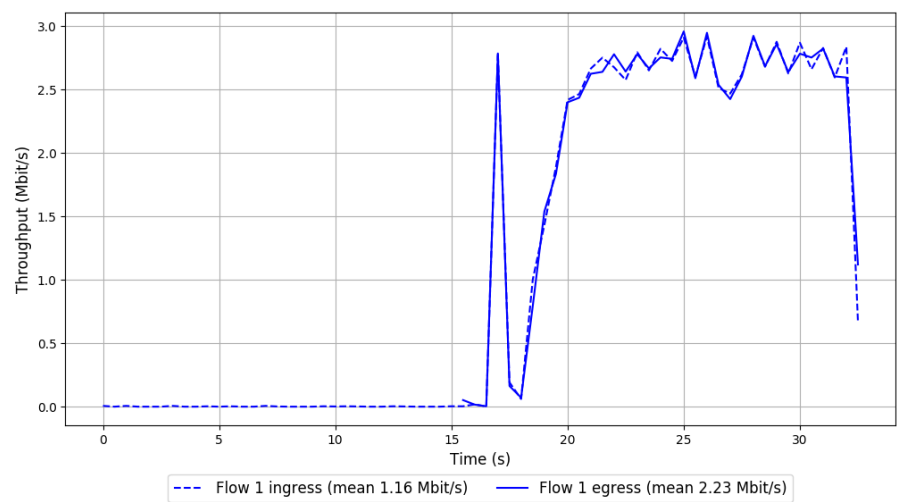


Run 9: Statistics of WebRTC media

Start at: 2018-01-26 01:36:04

End at: 2018-01-26 01:36:34

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-26 01:47:31

End at: 2018-01-26 01:48:01

Below is generated by plot.py at 2018-01-26 03:00:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 48.071 ms

Loss rate: 0.00%

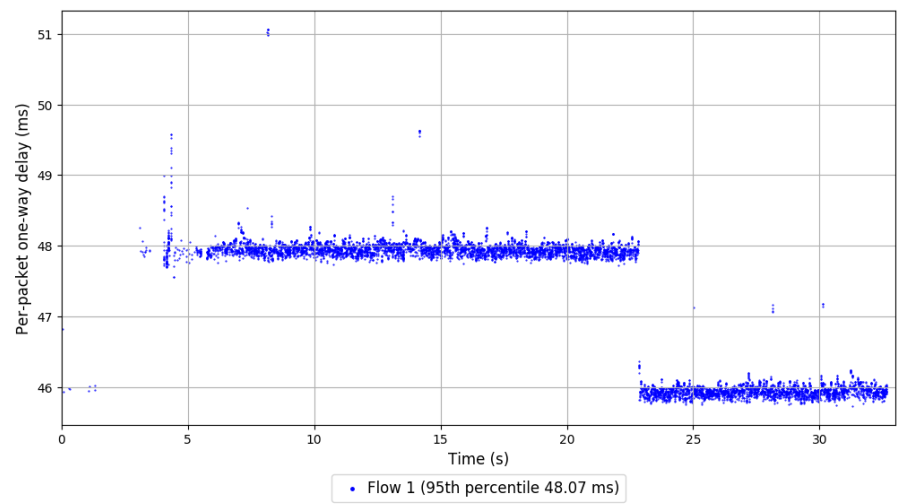
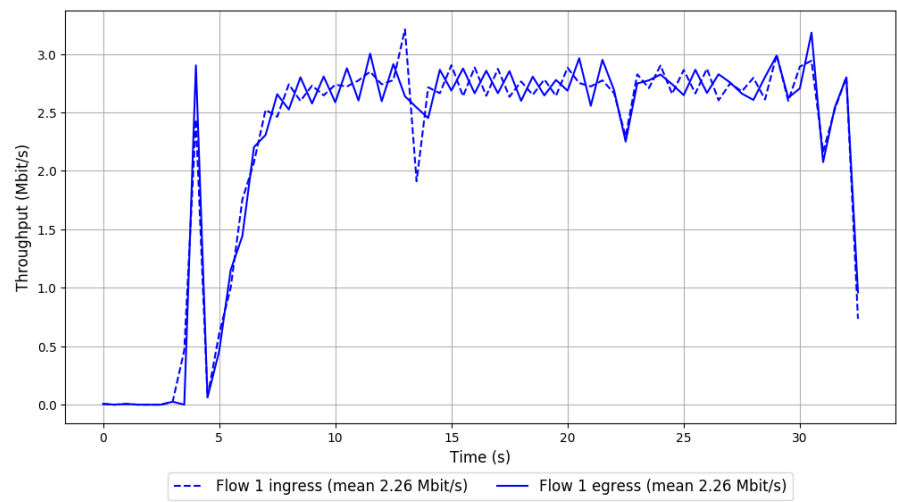
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 48.071 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

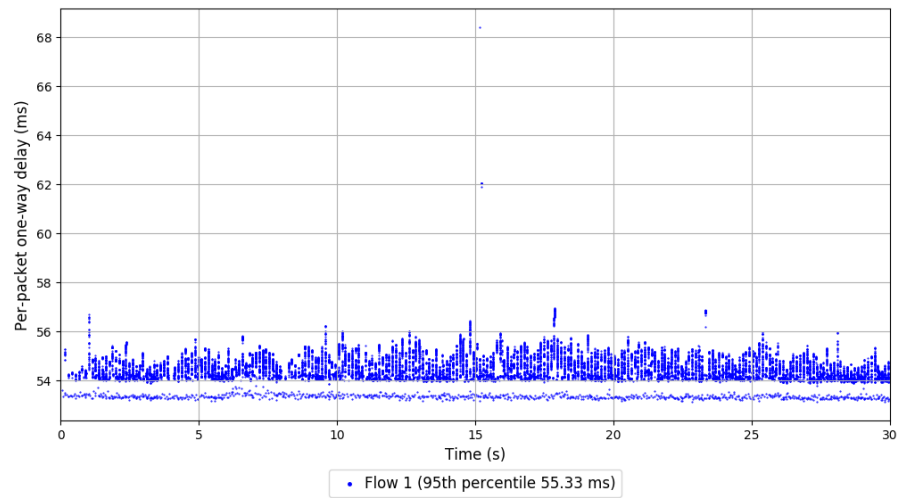
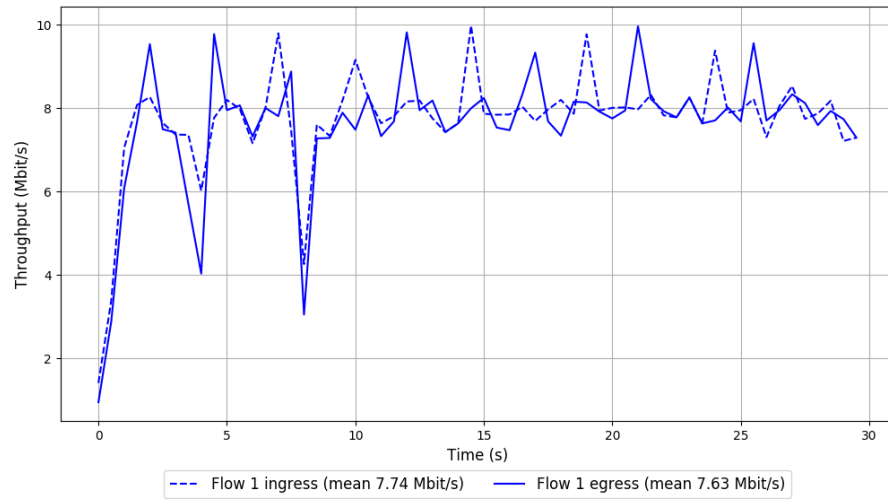


```
Run 1: Statistics of Sprout

Start at: 2018-01-26 00:02:55
End at: 2018-01-26 00:03:25

# Below is generated by plot.py at 2018-01-26 03:00:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.63 Mbit/s
95th percentile per-packet one-way delay: 55.332 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 7.63 Mbit/s
95th percentile per-packet one-way delay: 55.332 ms
Loss rate: 1.45%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-26 00:14:38

End at: 2018-01-26 00:15:08

Below is generated by plot.py at 2018-01-26 03:00:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 55.661 ms

Loss rate: 0.34%

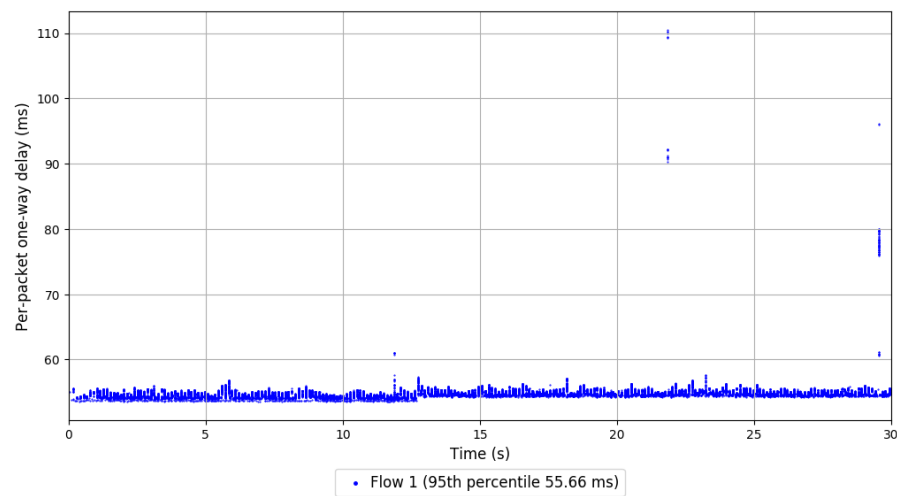
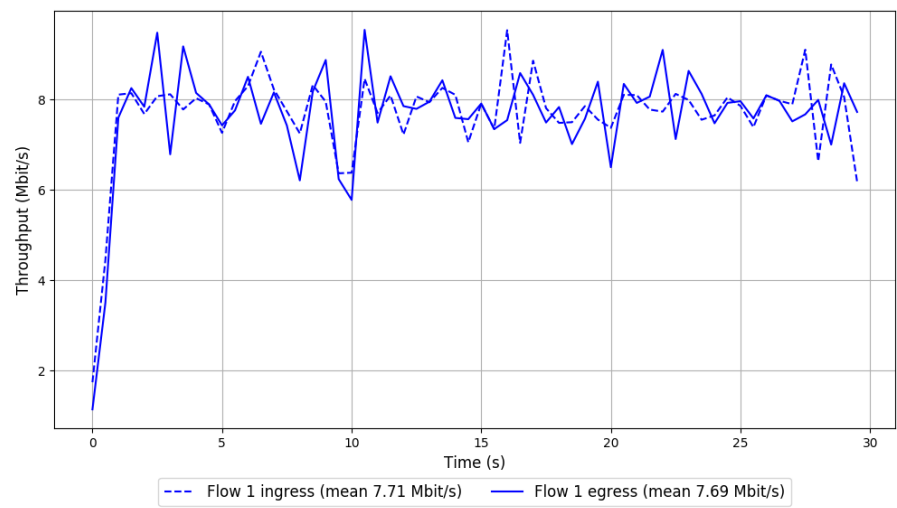
-- Flow 1:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 55.661 ms

Loss rate: 0.34%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-26 00:26:19

End at: 2018-01-26 00:26:49

Below is generated by plot.py at 2018-01-26 03:00:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 54.600 ms

Loss rate: 0.00%

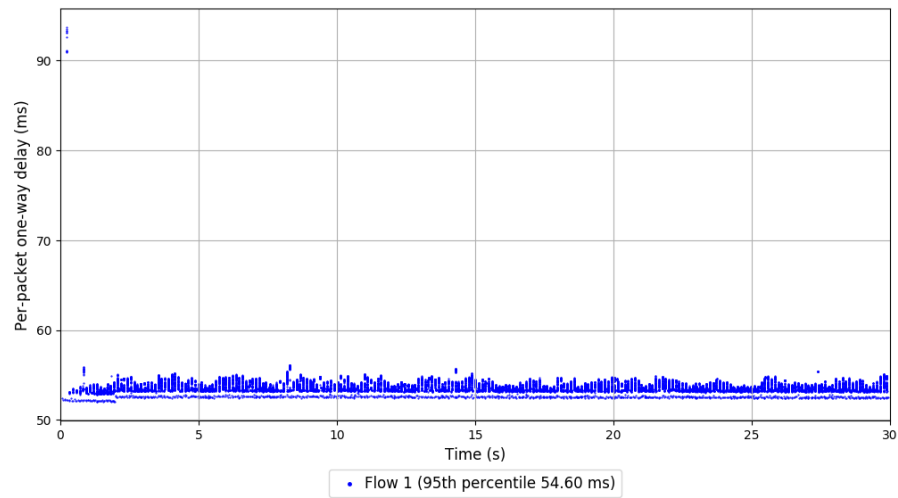
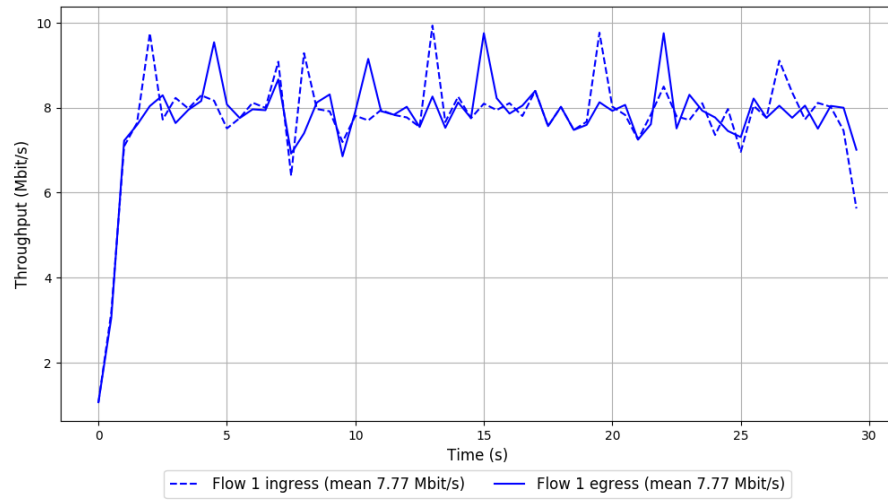
-- Flow 1:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 54.600 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-26 00:38:03

End at: 2018-01-26 00:38:33

Below is generated by plot.py at 2018-01-26 03:00:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 53.271 ms

Loss rate: 0.33%

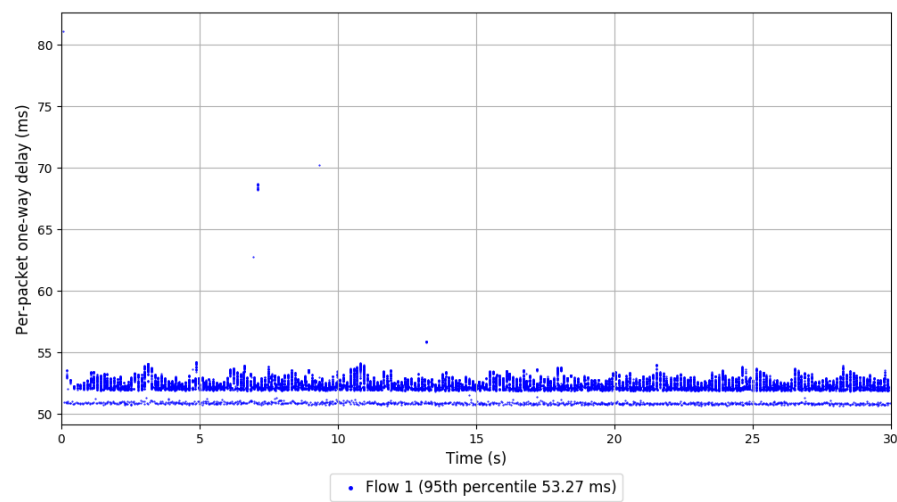
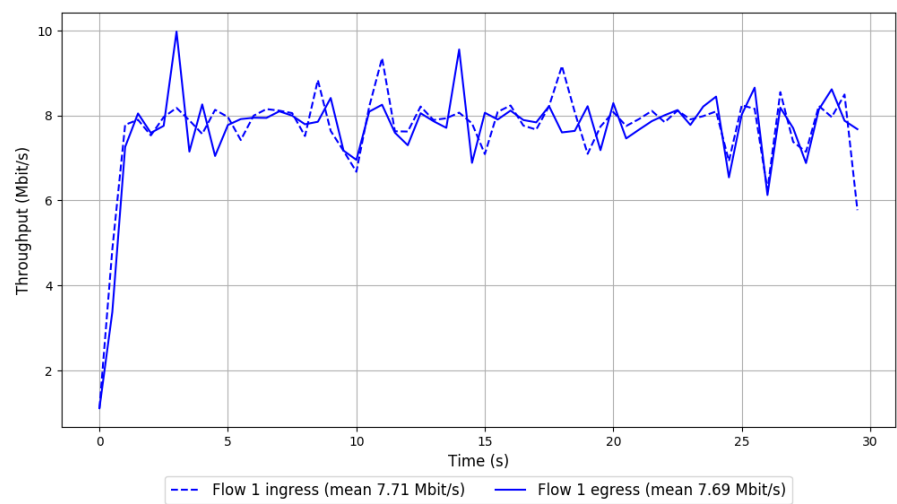
-- Flow 1:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 53.271 ms

Loss rate: 0.33%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-26 00:49:12

End at: 2018-01-26 00:49:42

Below is generated by plot.py at 2018-01-26 03:00:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 52.675 ms

Loss rate: 1.39%

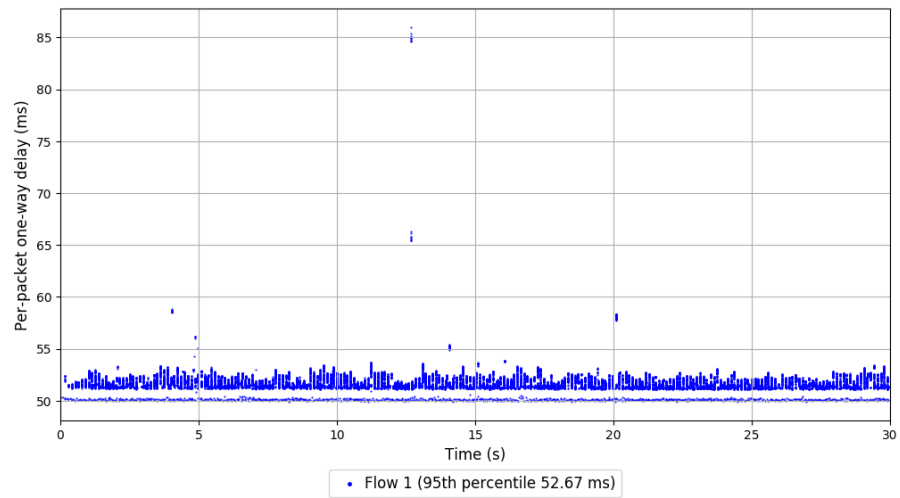
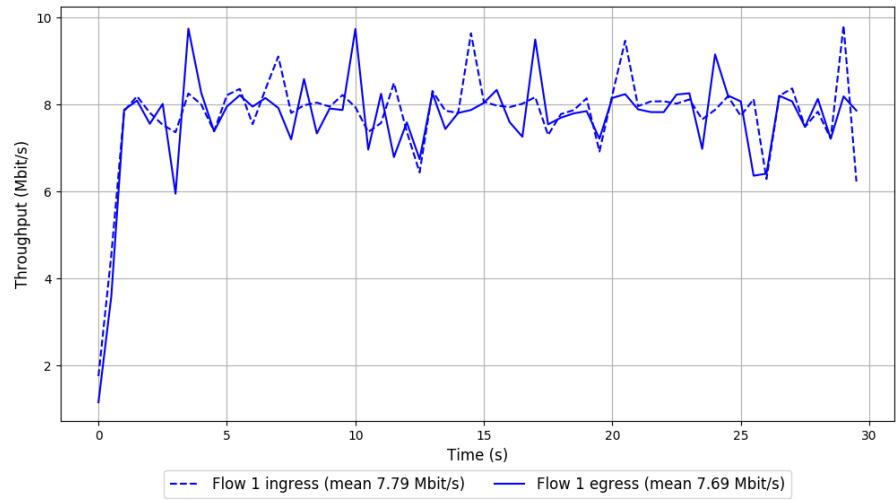
-- Flow 1:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 52.675 ms

Loss rate: 1.39%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-26 01:00:29

End at: 2018-01-26 01:00:59

Below is generated by plot.py at 2018-01-26 03:00:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.26 Mbit/s

95th percentile per-packet one-way delay: 51.608 ms

Loss rate: 2.09%

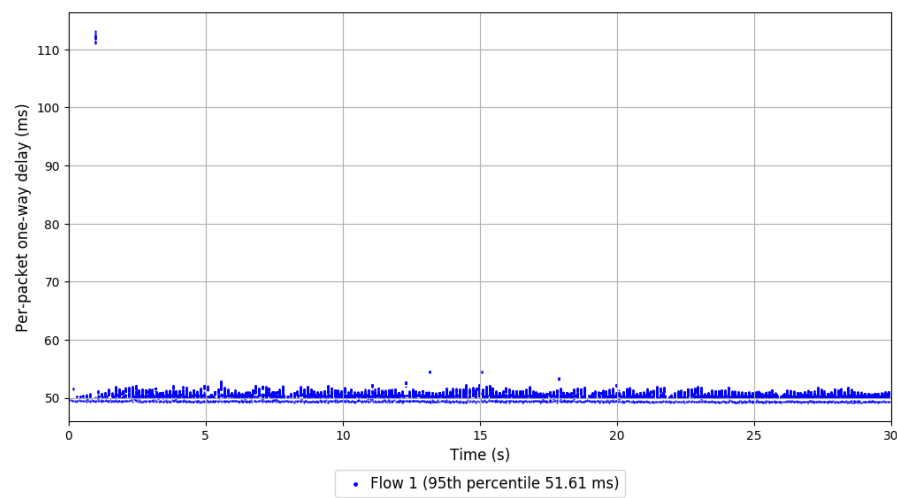
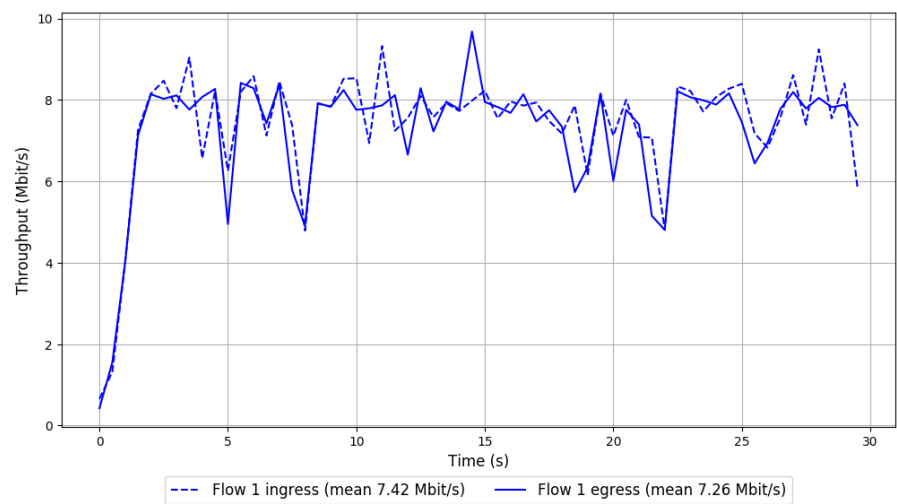
-- Flow 1:

Average throughput: 7.26 Mbit/s

95th percentile per-packet one-way delay: 51.608 ms

Loss rate: 2.09%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-26 01:12:13

End at: 2018-01-26 01:12:43

Below is generated by plot.py at 2018-01-26 03:00:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.54 Mbit/s

95th percentile per-packet one-way delay: 51.104 ms

Loss rate: 0.96%

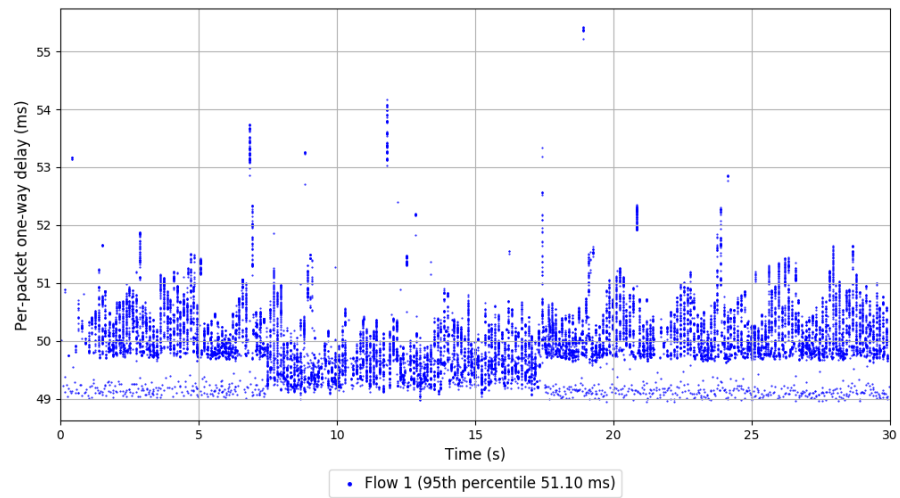
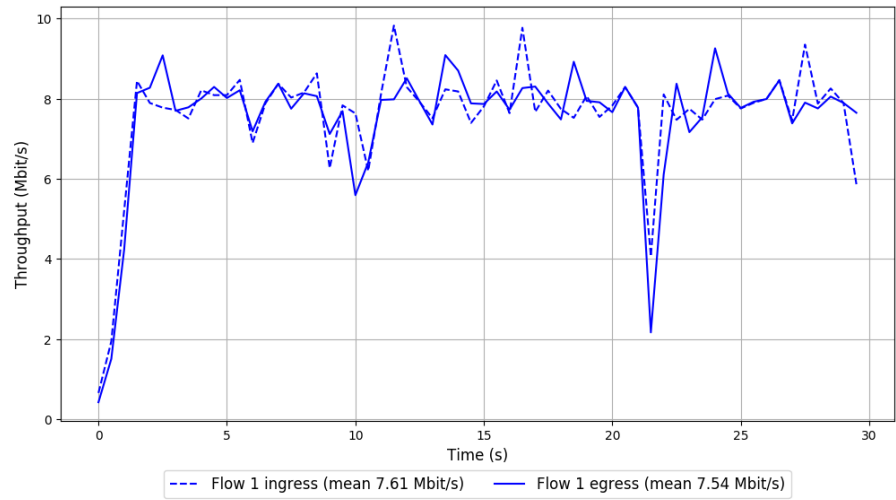
-- Flow 1:

Average throughput: 7.54 Mbit/s

95th percentile per-packet one-way delay: 51.104 ms

Loss rate: 0.96%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-26 01:23:52

End at: 2018-01-26 01:24:22

Below is generated by plot.py at 2018-01-26 03:00:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.64 Mbit/s

95th percentile per-packet one-way delay: 50.049 ms

Loss rate: 1.01%

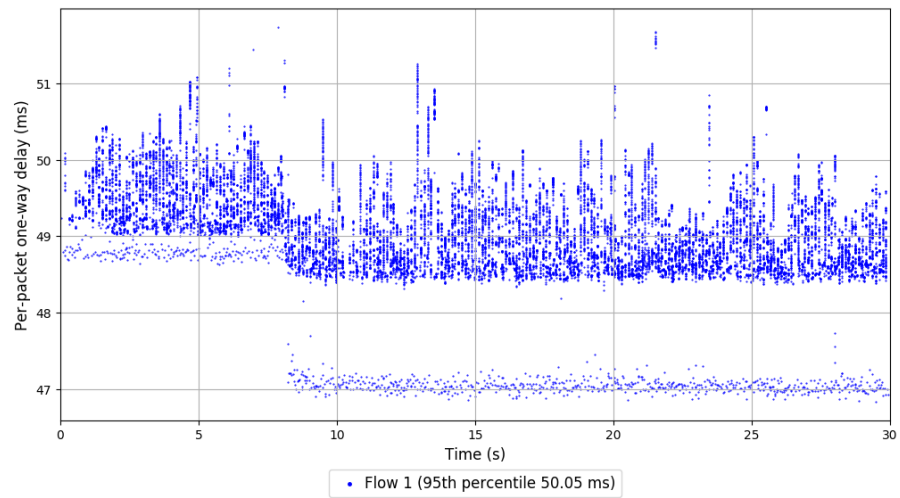
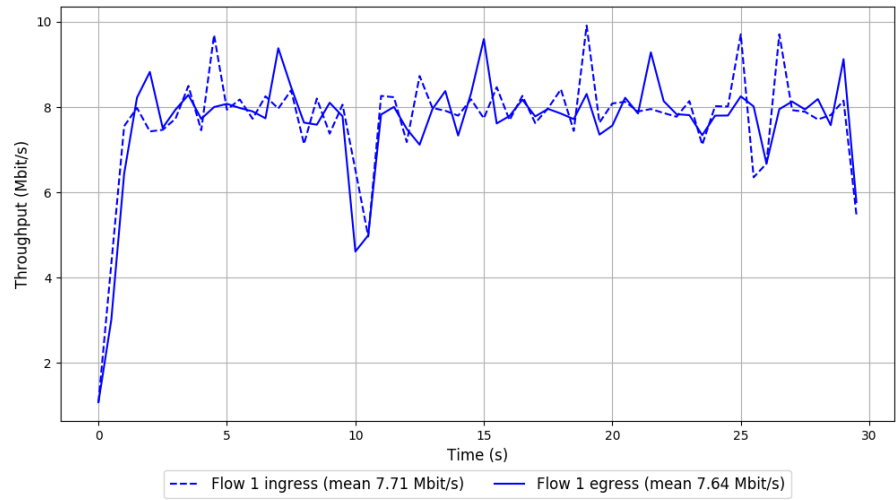
-- Flow 1:

Average throughput: 7.64 Mbit/s

95th percentile per-packet one-way delay: 50.049 ms

Loss rate: 1.01%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-26 01:35:27

End at: 2018-01-26 01:35:57

Below is generated by plot.py at 2018-01-26 03:00:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.42 Mbit/s

95th percentile per-packet one-way delay: 49.469 ms

Loss rate: 0.71%

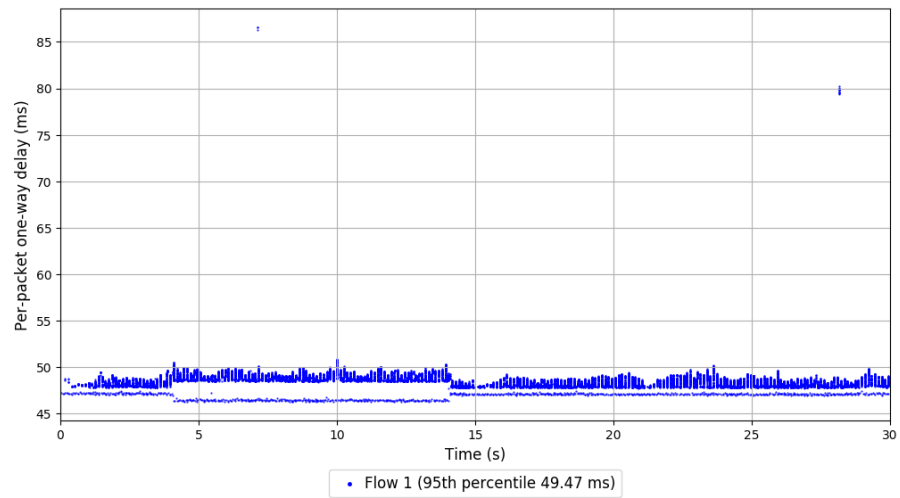
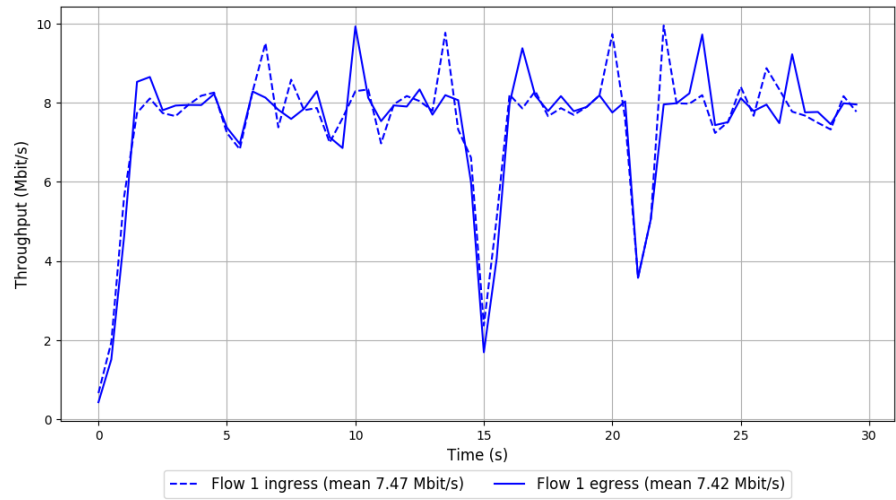
-- Flow 1:

Average throughput: 7.42 Mbit/s

95th percentile per-packet one-way delay: 49.469 ms

Loss rate: 0.71%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-26 01:46:53

End at: 2018-01-26 01:47:23

Below is generated by plot.py at 2018-01-26 03:00:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 49.257 ms

Loss rate: 0.01%

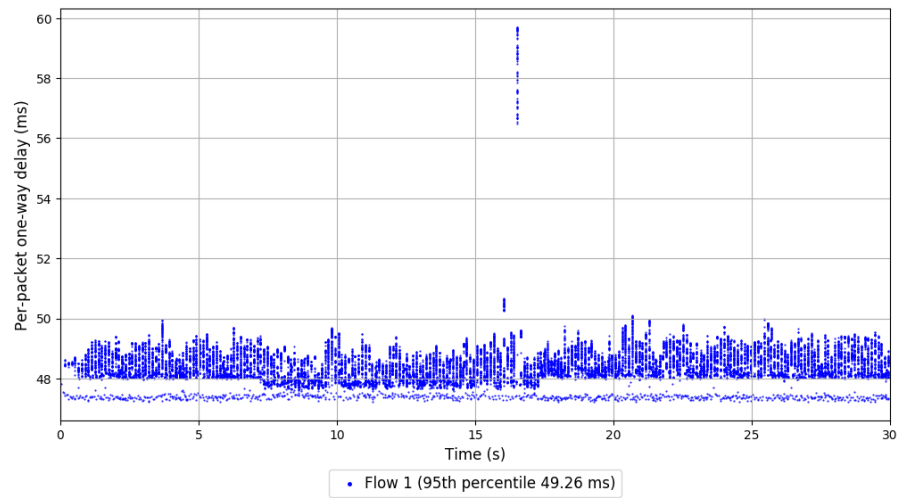
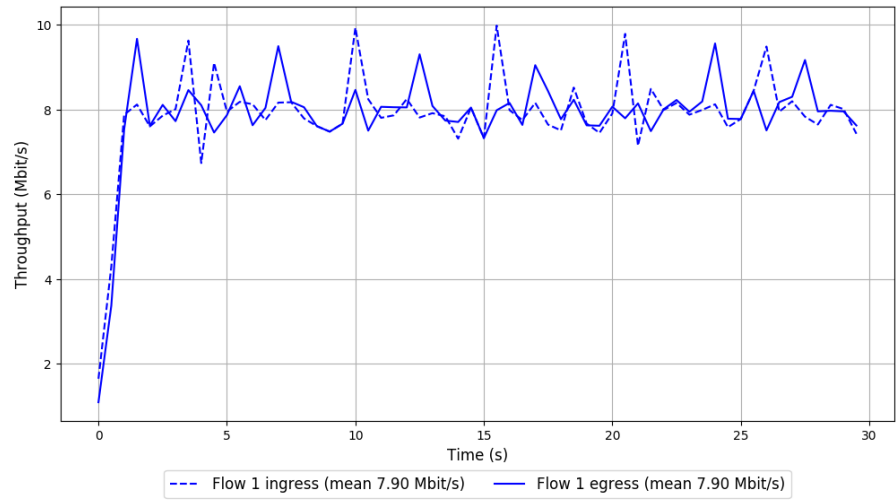
-- Flow 1:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 49.257 ms

Loss rate: 0.01%

Run 10: Report of Sprout — Data Link

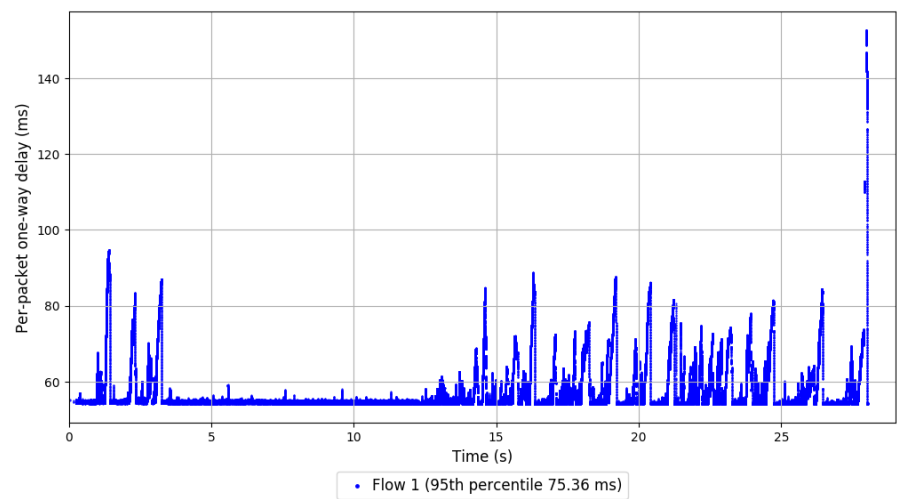
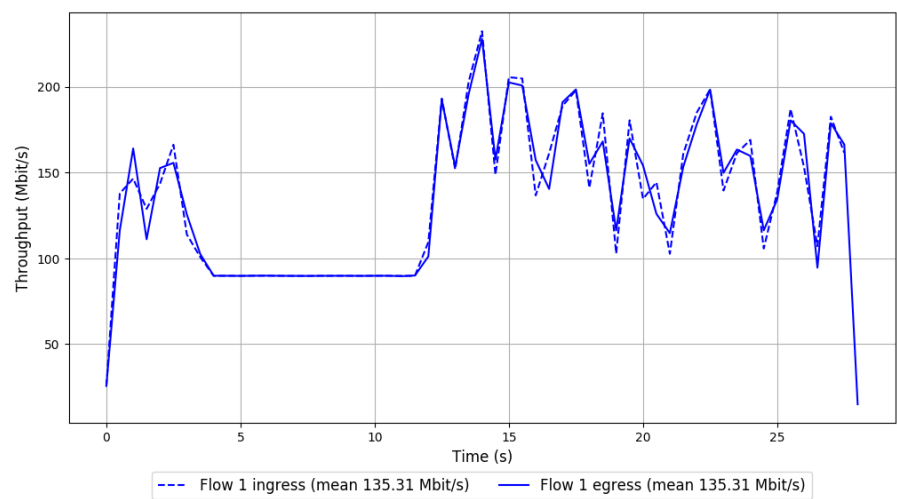


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-25 23:59:46
End at: 2018-01-26 00:00:16

# Below is generated by plot.py at 2018-01-26 03:00:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 135.31 Mbit/s
95th percentile per-packet one-way delay: 75.364 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 135.31 Mbit/s
95th percentile per-packet one-way delay: 75.364 ms
Loss rate: 0.00%
```


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

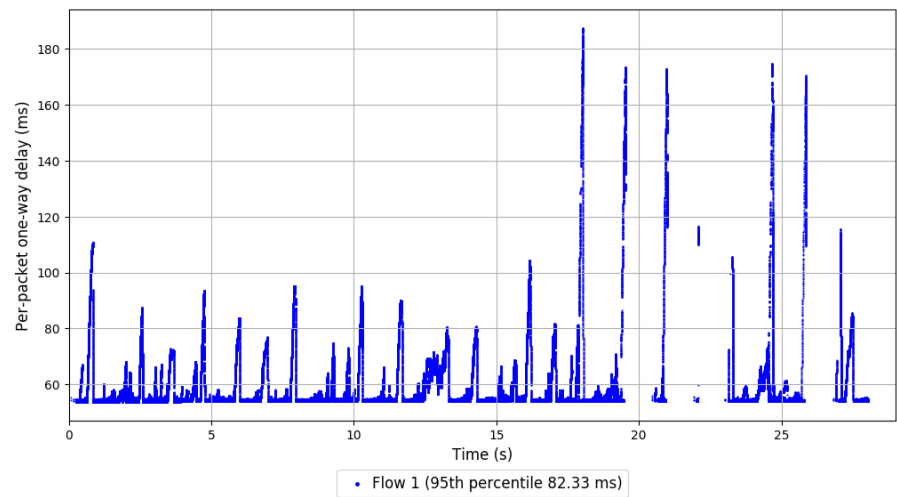
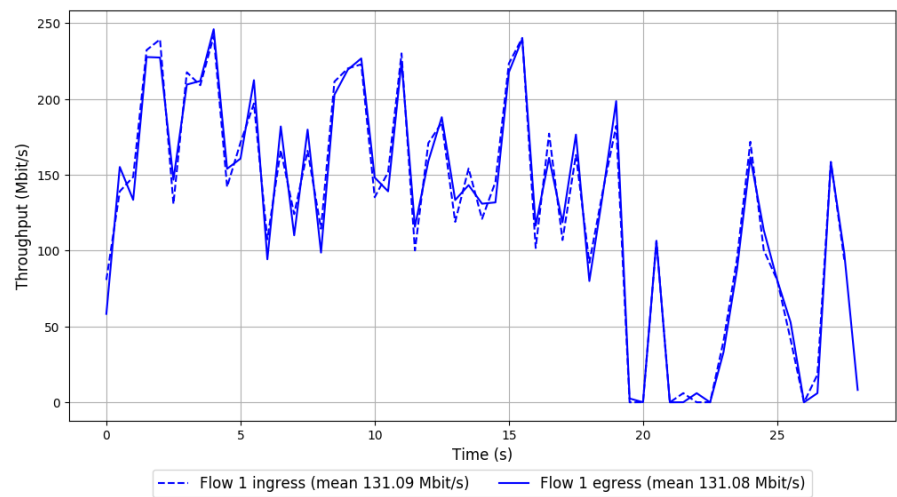


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-26 00:11:35
End at: 2018-01-26 00:12:05

# Below is generated by plot.py at 2018-01-26 03:00:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 131.08 Mbit/s
95th percentile per-packet one-way delay: 82.333 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 131.08 Mbit/s
95th percentile per-packet one-way delay: 82.333 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-01-26 00:23:16

End at: 2018-01-26 00:23:46

Below is generated by plot.py at 2018-01-26 03:00:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 157.11 Mbit/s

95th percentile per-packet one-way delay: 77.872 ms

Loss rate: 0.27%

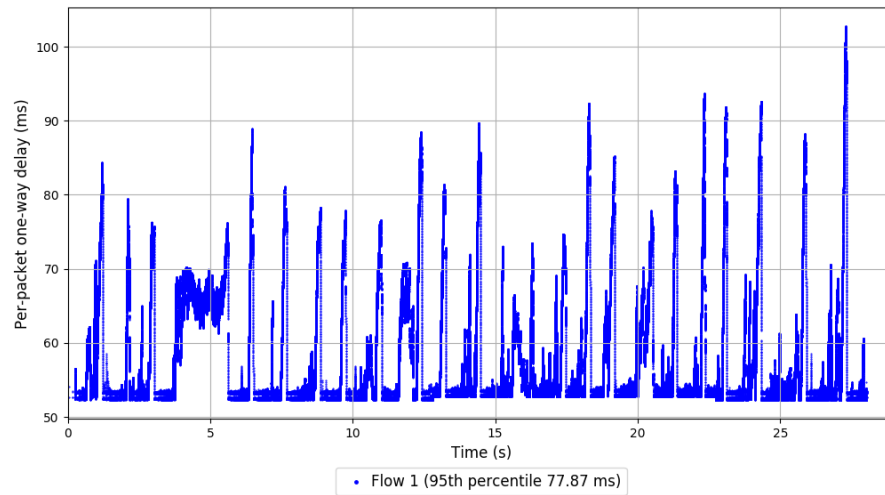
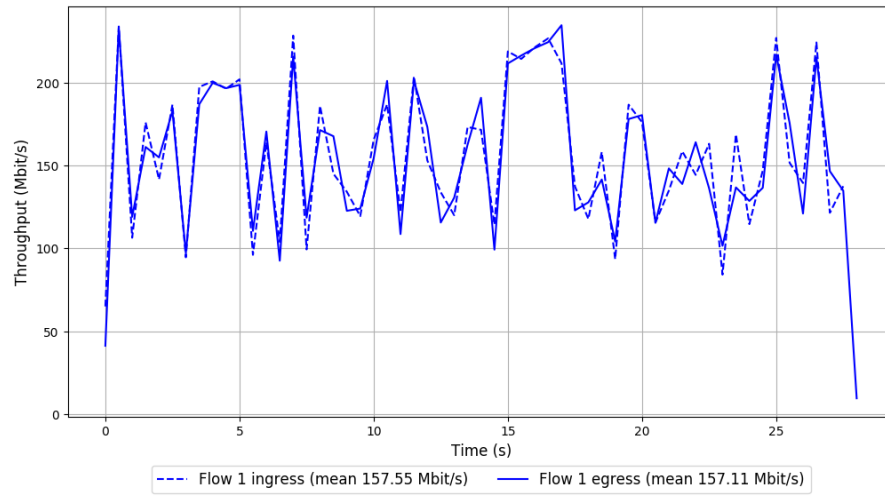
-- Flow 1:

Average throughput: 157.11 Mbit/s

95th percentile per-packet one-way delay: 77.872 ms

Loss rate: 0.27%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-26 00:34:58

End at: 2018-01-26 00:35:28

Below is generated by plot.py at 2018-01-26 03:00:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 140.13 Mbit/s

95th percentile per-packet one-way delay: 72.991 ms

Loss rate: 0.01%

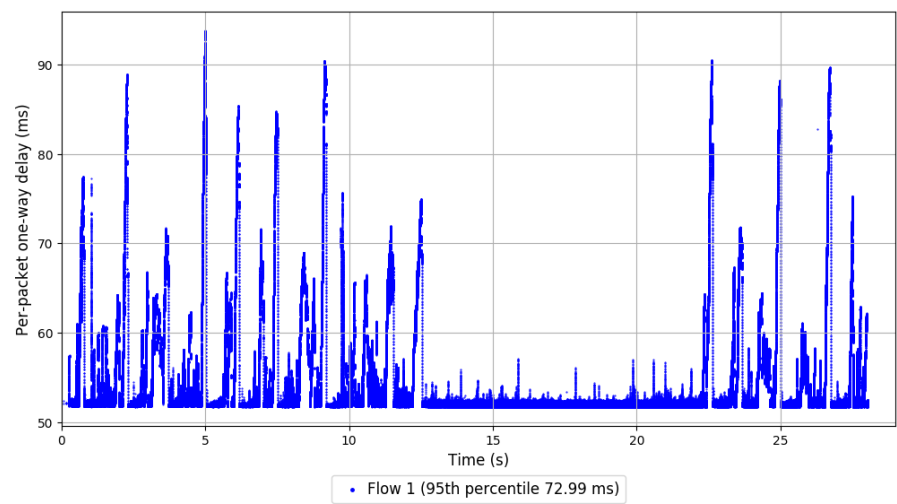
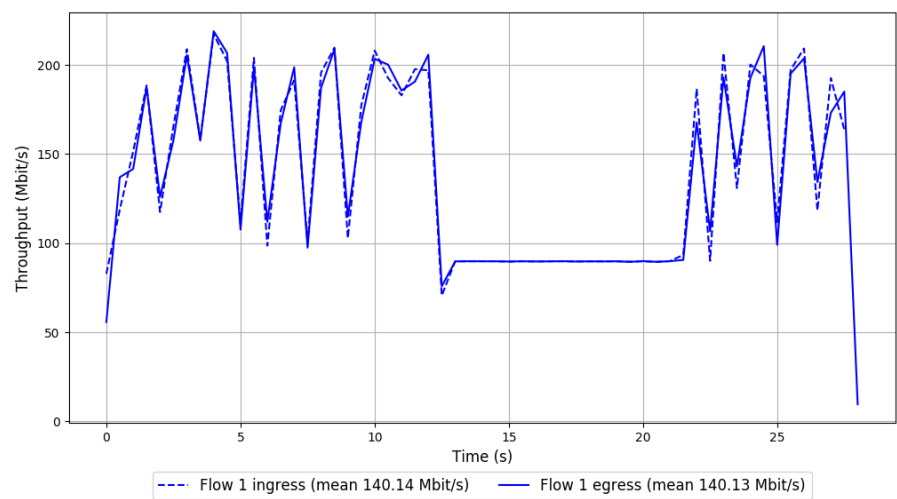
-- Flow 1:

Average throughput: 140.13 Mbit/s

95th percentile per-packet one-way delay: 72.991 ms

Loss rate: 0.01%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-26 00:46:20

End at: 2018-01-26 00:46:50

Below is generated by plot.py at 2018-01-26 03:00:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.47 Mbit/s

95th percentile per-packet one-way delay: 51.309 ms

Loss rate: 0.79%

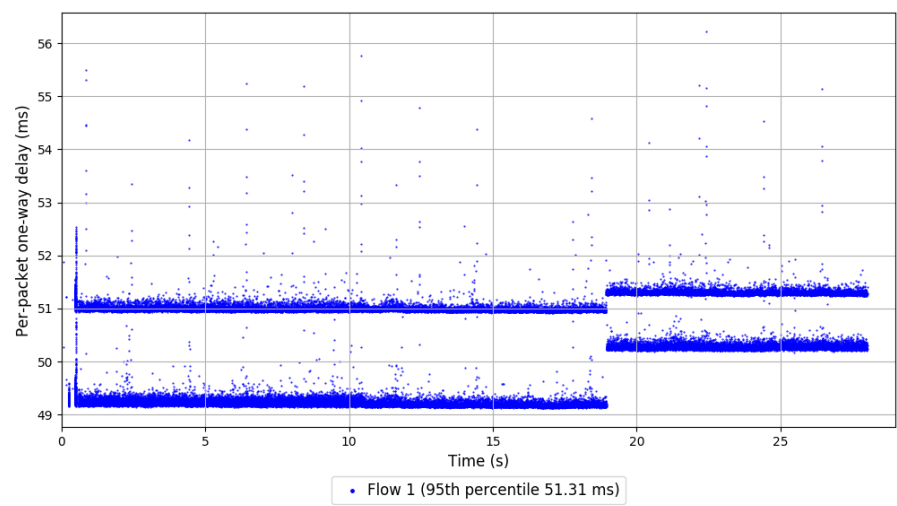
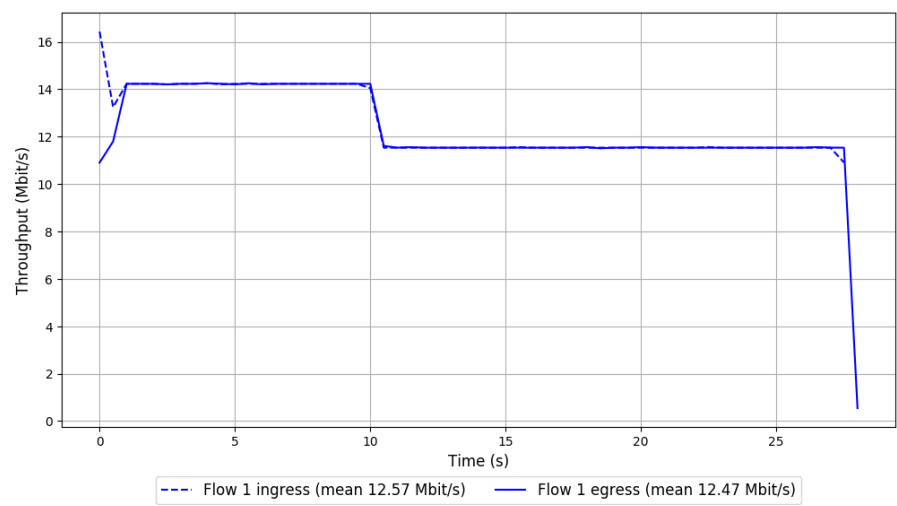
-- Flow 1:

Average throughput: 12.47 Mbit/s

95th percentile per-packet one-way delay: 51.309 ms

Loss rate: 0.79%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-26 00:57:29

End at: 2018-01-26 00:57:59

Below is generated by plot.py at 2018-01-26 03:00:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 128.60 Mbit/s

95th percentile per-packet one-way delay: 71.978 ms

Loss rate: 0.00%

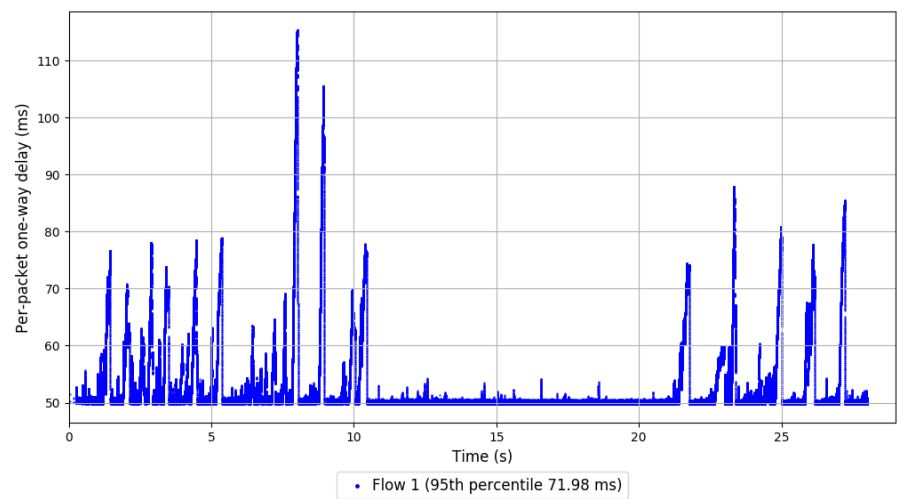
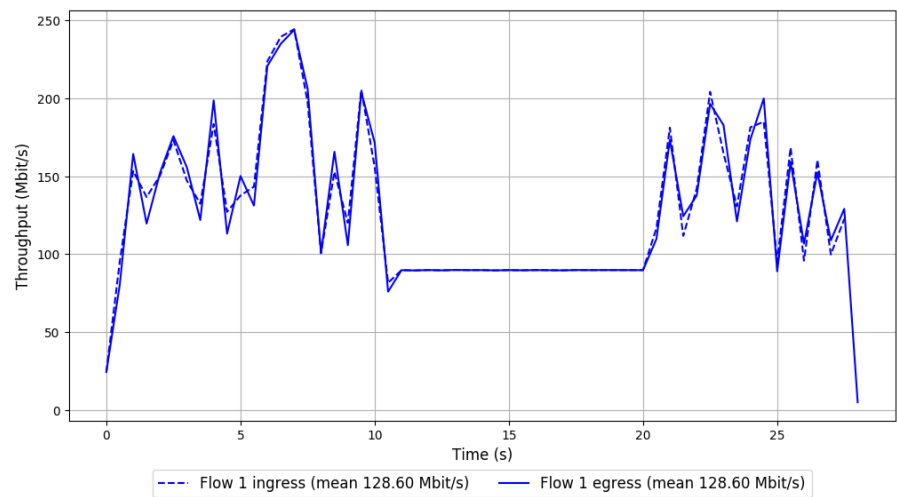
-- Flow 1:

Average throughput: 128.60 Mbit/s

95th percentile per-packet one-way delay: 71.978 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-01-26 01:09:08

End at: 2018-01-26 01:09:38

Below is generated by plot.py at 2018-01-26 03:00:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 149.06 Mbit/s

95th percentile per-packet one-way delay: 73.883 ms

Loss rate: 0.08%

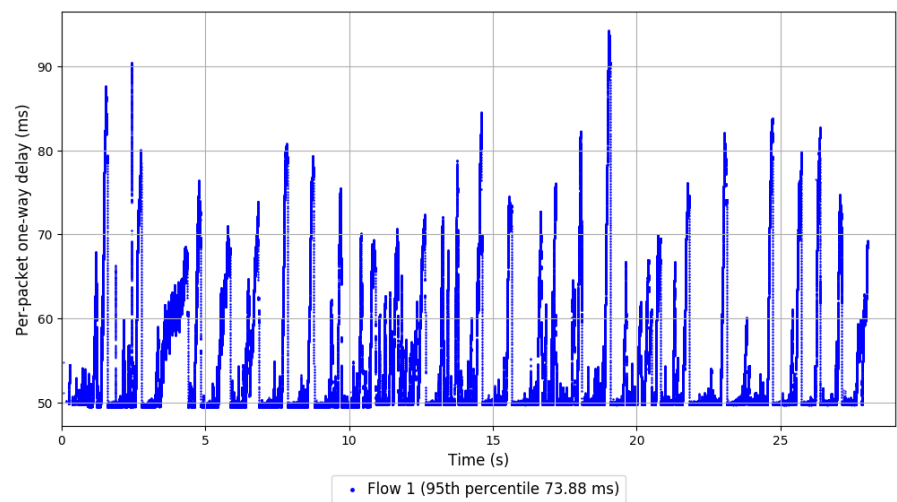
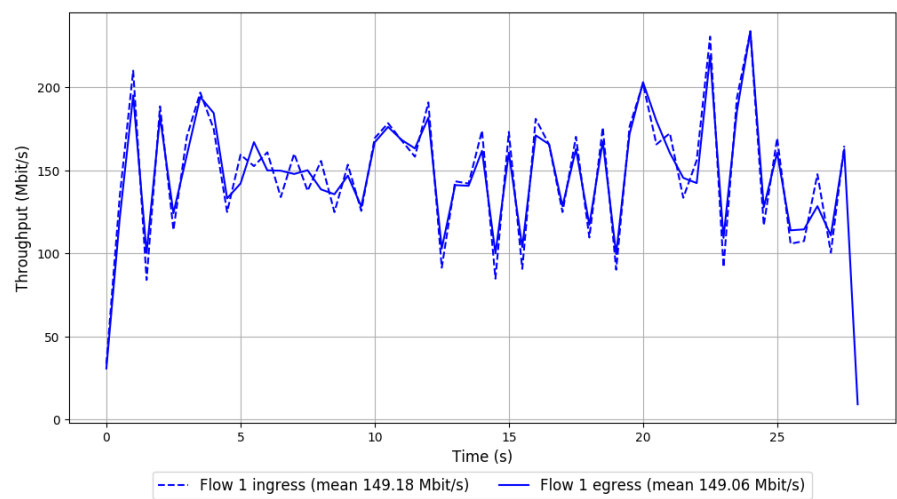
-- Flow 1:

Average throughput: 149.06 Mbit/s

95th percentile per-packet one-way delay: 73.883 ms

Loss rate: 0.08%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-26 01:20:46

End at: 2018-01-26 01:21:16

Below is generated by plot.py at 2018-01-26 03:04:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 161.35 Mbit/s

95th percentile per-packet one-way delay: 71.924 ms

Loss rate: 0.00%

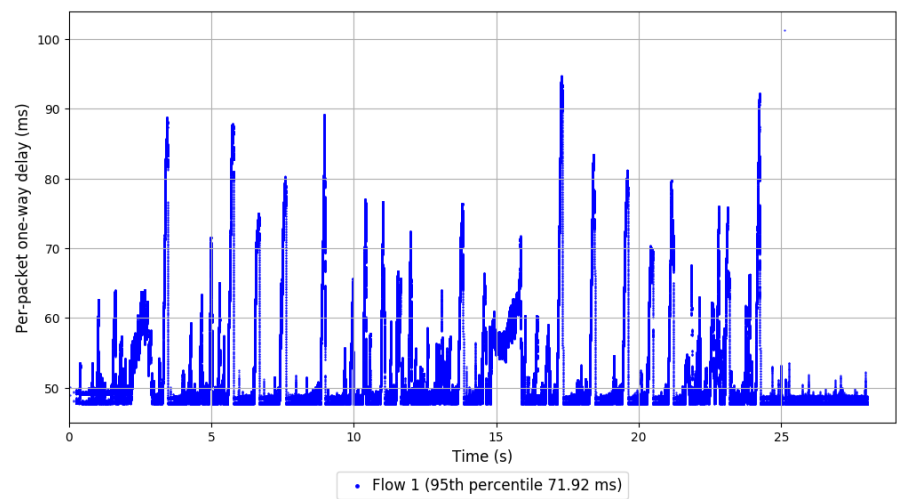
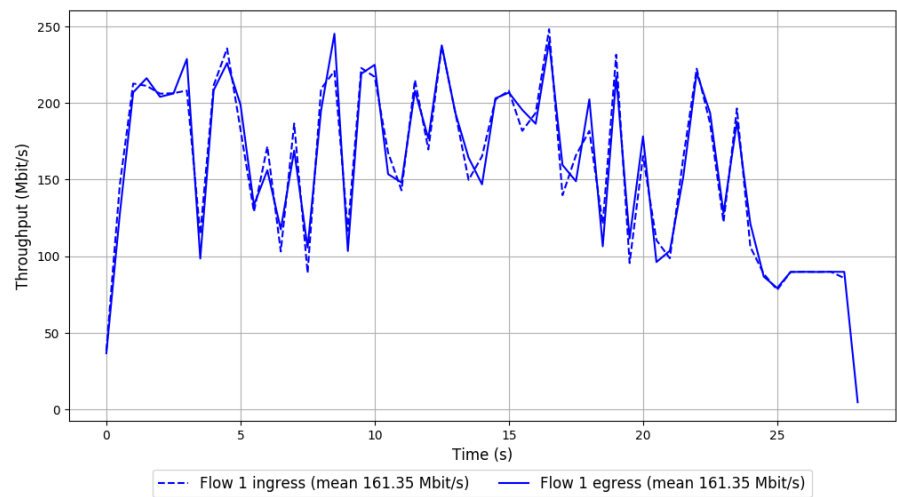
-- Flow 1:

Average throughput: 161.35 Mbit/s

95th percentile per-packet one-way delay: 71.924 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-26 01:32:22

End at: 2018-01-26 01:32:52

Below is generated by plot.py at 2018-01-26 03:04:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 143.21 Mbit/s

95th percentile per-packet one-way delay: 79.260 ms

Loss rate: 0.00%

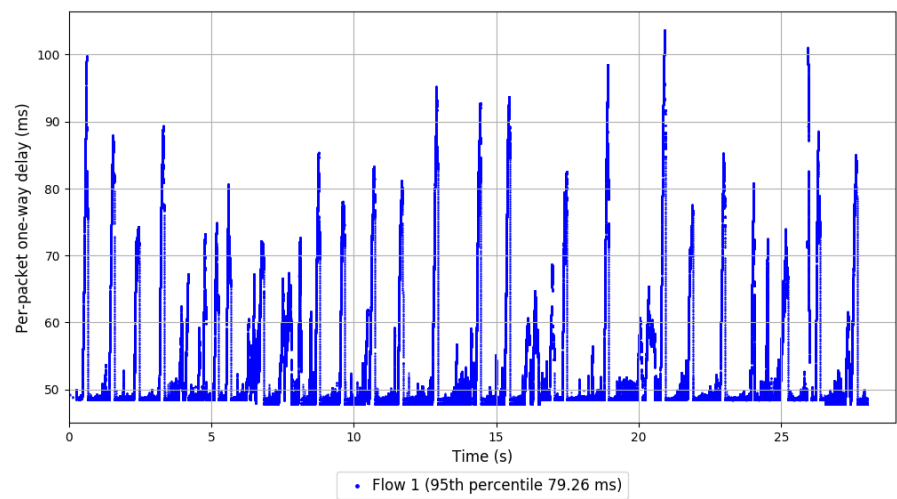
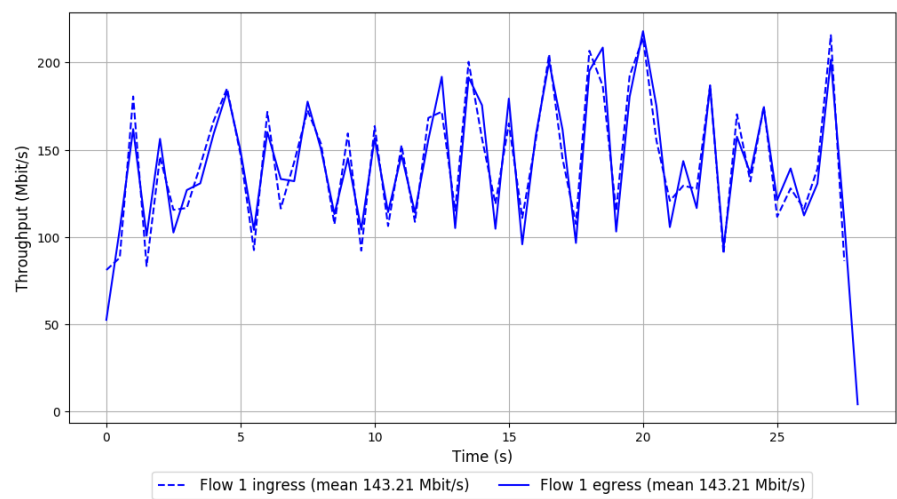
-- Flow 1:

Average throughput: 143.21 Mbit/s

95th percentile per-packet one-way delay: 79.260 ms

Loss rate: 0.00%

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

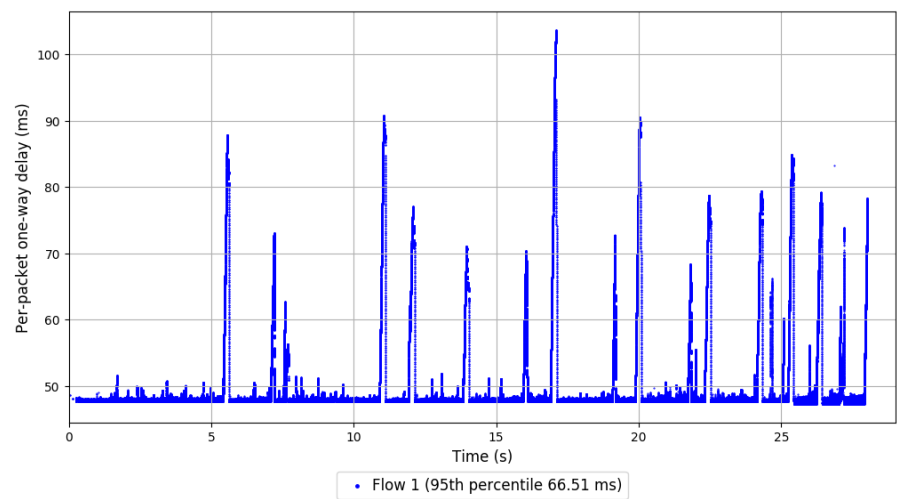
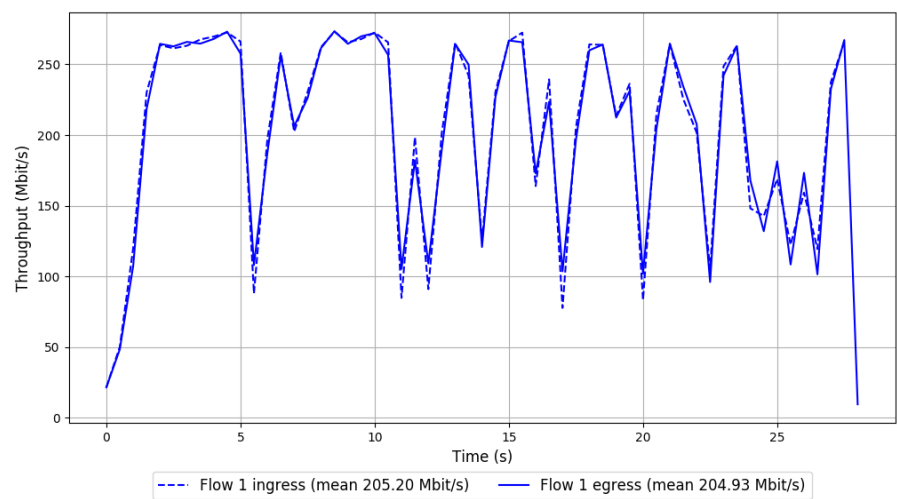


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-26 01:43:43
End at: 2018-01-26 01:44:13

# Below is generated by plot.py at 2018-01-26 03:05:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 204.93 Mbit/s
95th percentile per-packet one-way delay: 66.508 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 204.93 Mbit/s
95th percentile per-packet one-way delay: 66.508 ms
Loss rate: 0.14%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-25 23:58:17

End at: 2018-01-25 23:58:47

Below is generated by plot.py at 2018-01-26 03:05:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.38 Mbit/s

95th percentile per-packet one-way delay: 57.219 ms

Loss rate: 0.53%

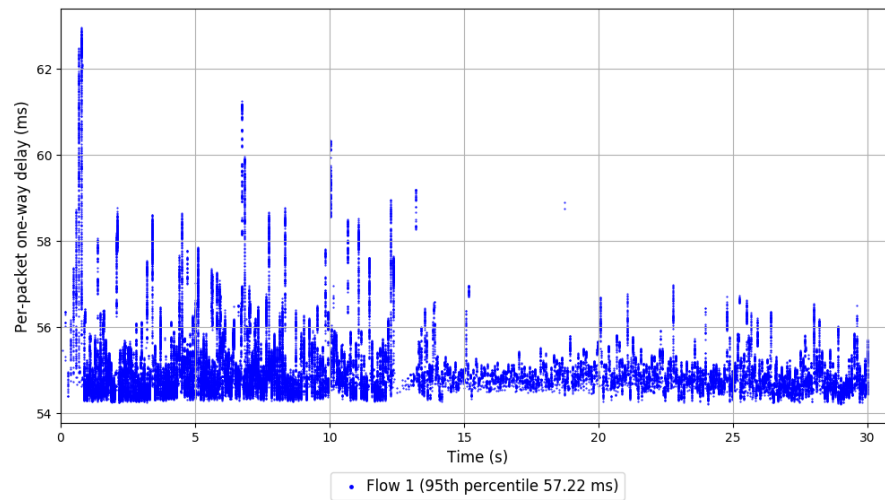
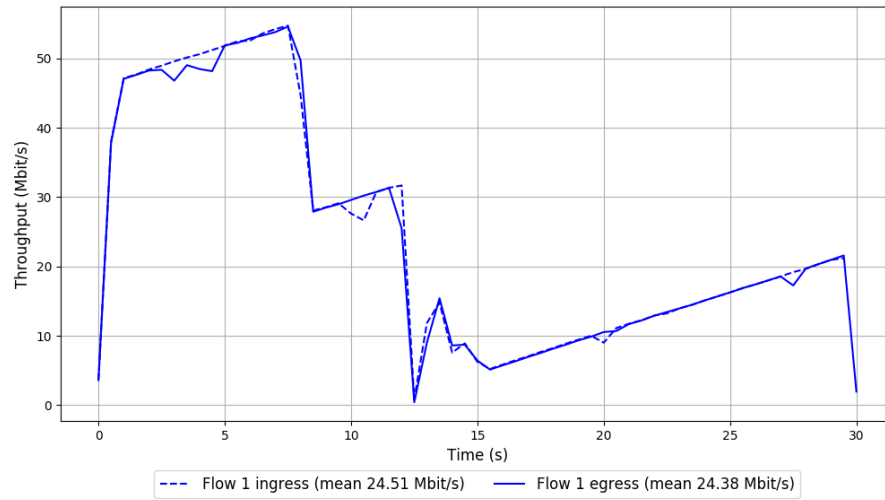
-- Flow 1:

Average throughput: 24.38 Mbit/s

95th percentile per-packet one-way delay: 57.219 ms

Loss rate: 0.53%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-26 00:10:05

End at: 2018-01-26 00:10:35

Below is generated by plot.py at 2018-01-26 03:05:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.09 Mbit/s

95th percentile per-packet one-way delay: 56.911 ms

Loss rate: 0.38%

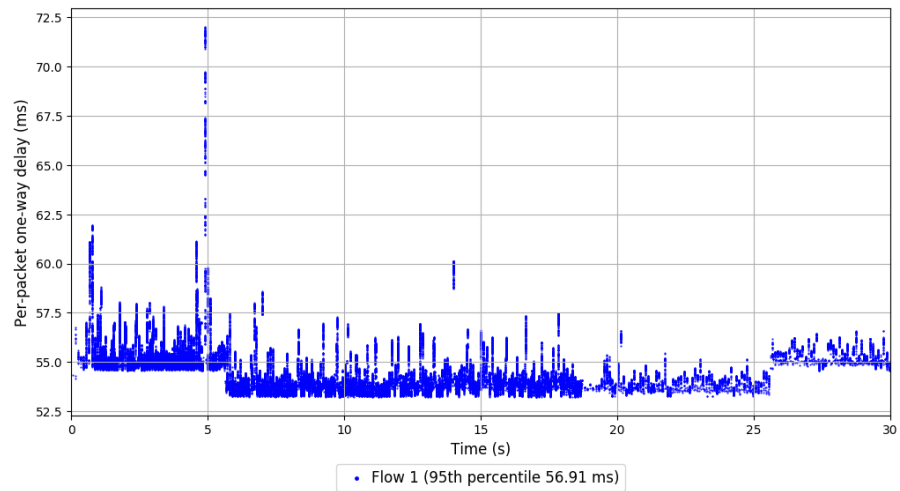
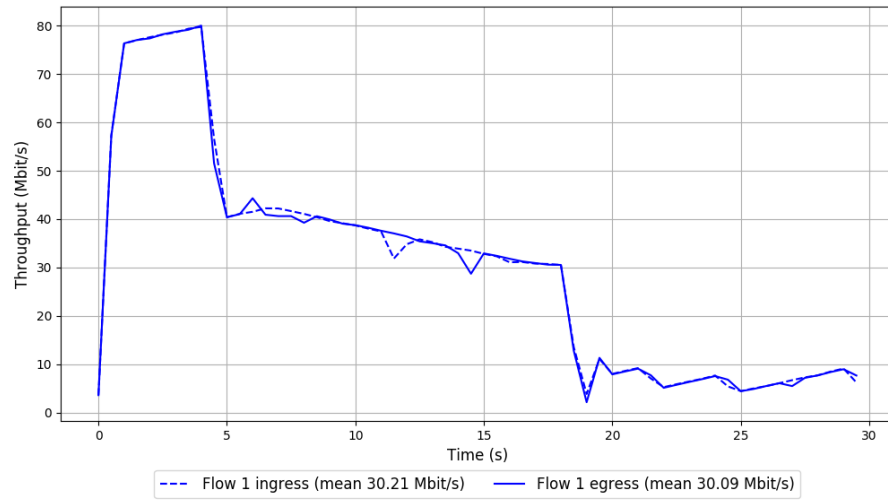
-- Flow 1:

Average throughput: 30.09 Mbit/s

95th percentile per-packet one-way delay: 56.911 ms

Loss rate: 0.38%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-26 00:21:47

End at: 2018-01-26 00:22:17

Below is generated by plot.py at 2018-01-26 03:05:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.09 Mbit/s

95th percentile per-packet one-way delay: 56.070 ms

Loss rate: 0.99%

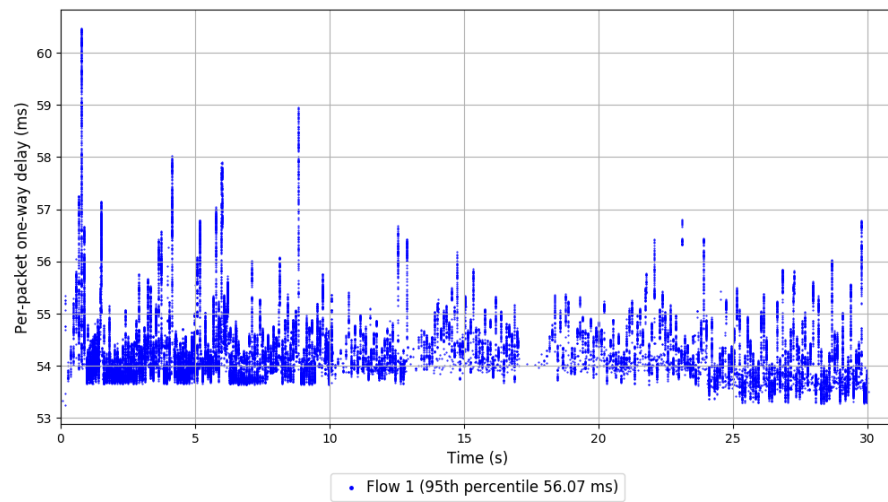
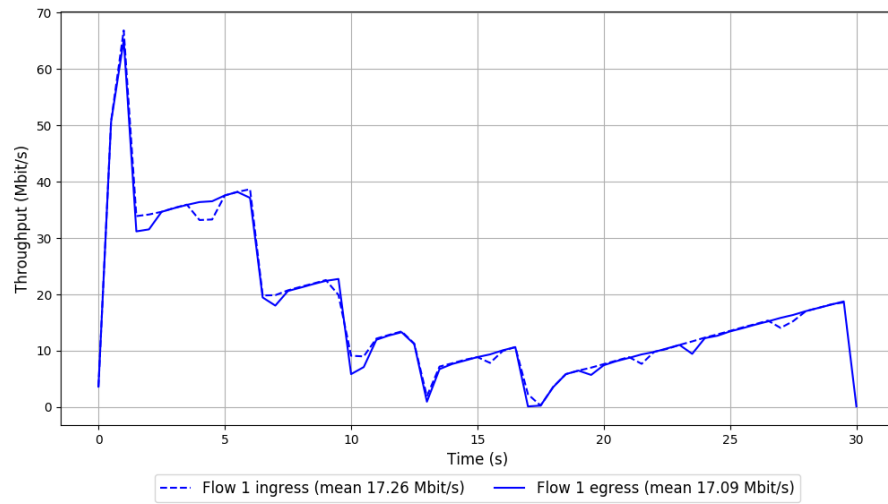
-- Flow 1:

Average throughput: 17.09 Mbit/s

95th percentile per-packet one-way delay: 56.070 ms

Loss rate: 0.99%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-26 00:33:27

End at: 2018-01-26 00:33:57

Below is generated by plot.py at 2018-01-26 03:05:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.34 Mbit/s

95th percentile per-packet one-way delay: 54.280 ms

Loss rate: 0.00%

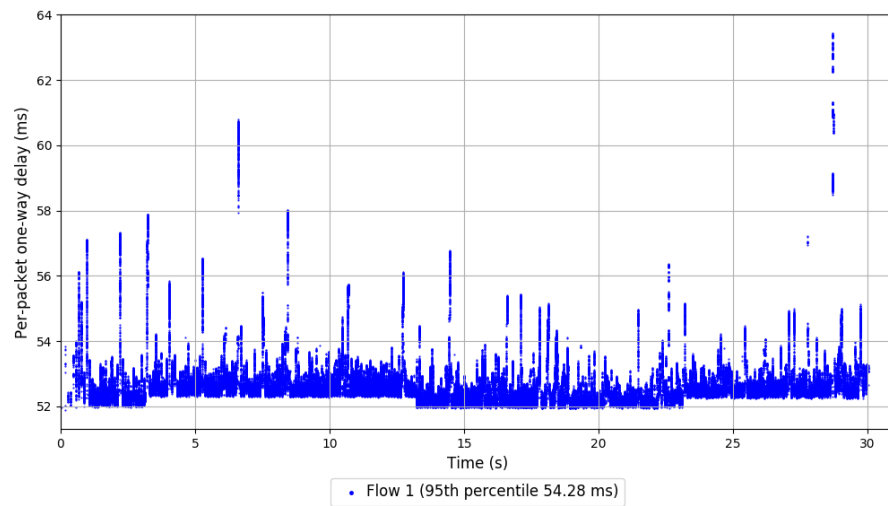
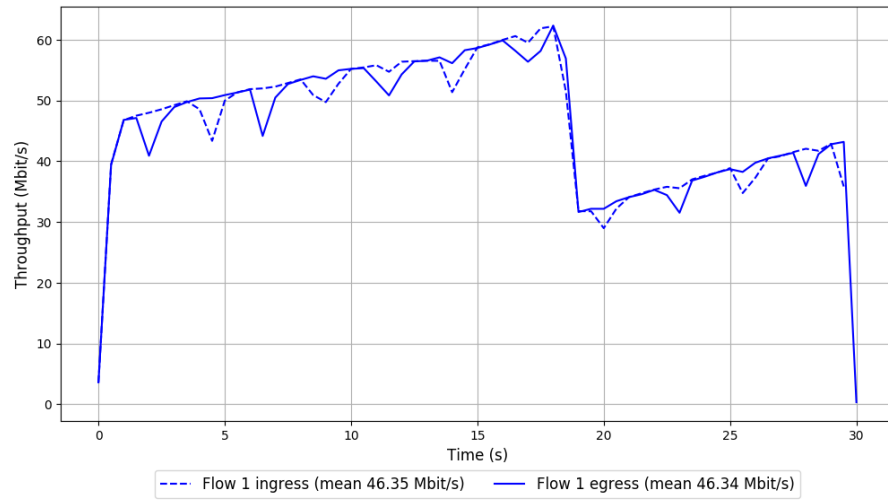
-- Flow 1:

Average throughput: 46.34 Mbit/s

95th percentile per-packet one-way delay: 54.280 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-26 00:44:50

End at: 2018-01-26 00:45:20

Below is generated by plot.py at 2018-01-26 03:05:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.11 Mbit/s

95th percentile per-packet one-way delay: 53.054 ms

Loss rate: 0.45%

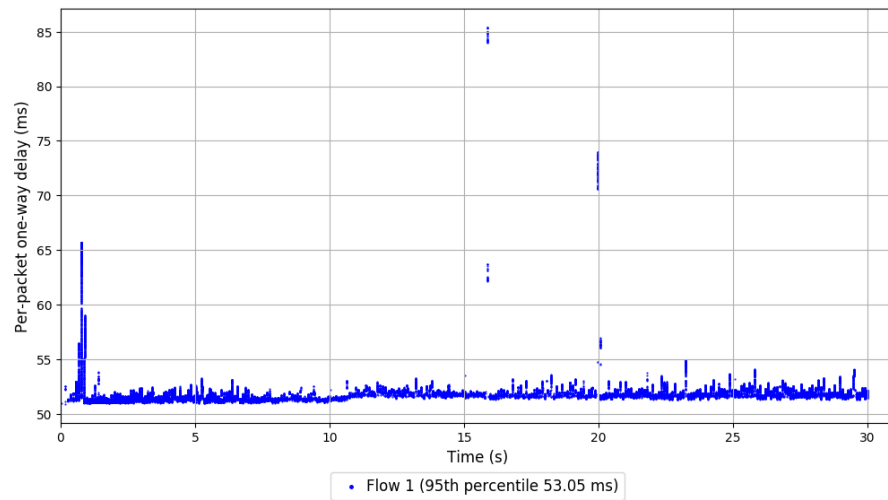
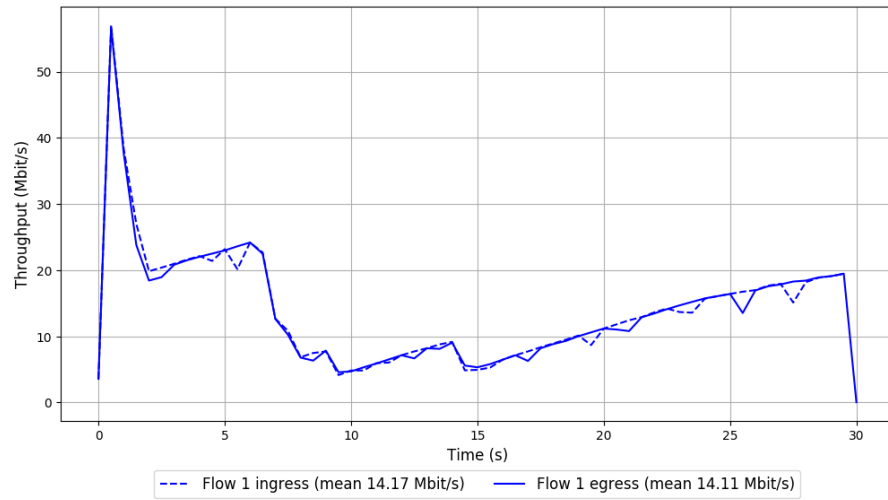
-- Flow 1:

Average throughput: 14.11 Mbit/s

95th percentile per-packet one-way delay: 53.054 ms

Loss rate: 0.45%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-26 00:56:01

End at: 2018-01-26 00:56:31

Below is generated by plot.py at 2018-01-26 03:05:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.55 Mbit/s

95th percentile per-packet one-way delay: 52.283 ms

Loss rate: 0.39%

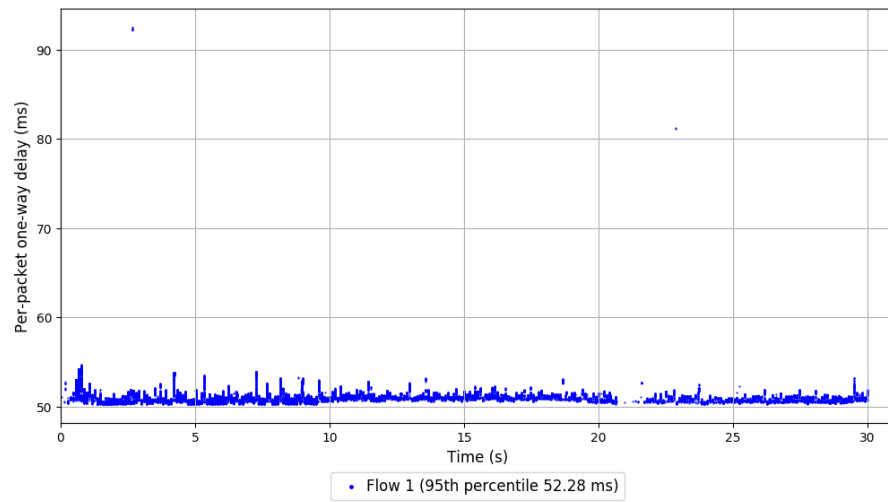
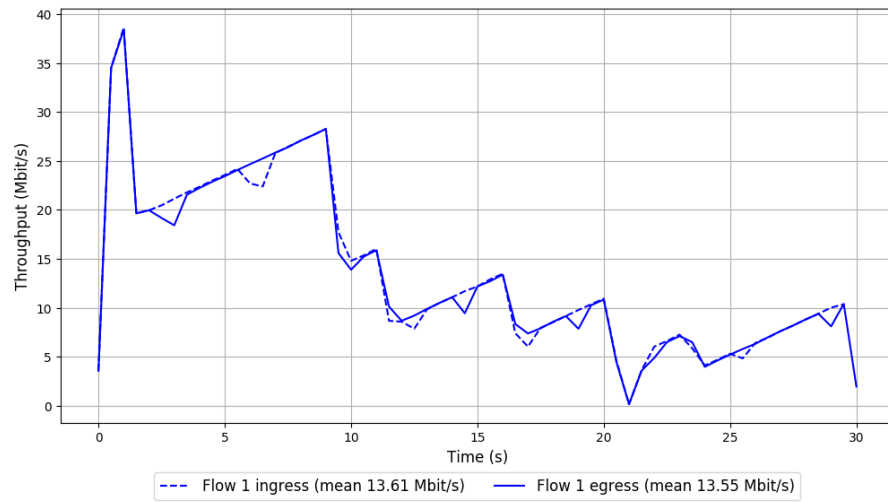
-- Flow 1:

Average throughput: 13.55 Mbit/s

95th percentile per-packet one-way delay: 52.283 ms

Loss rate: 0.39%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-26 01:07:38

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

Below is generated by plot.py at 2018-01-26 03:05:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.21 Mbit/s

95th percentile per-packet one-way delay: 51.622 ms

Loss rate: 0.66%

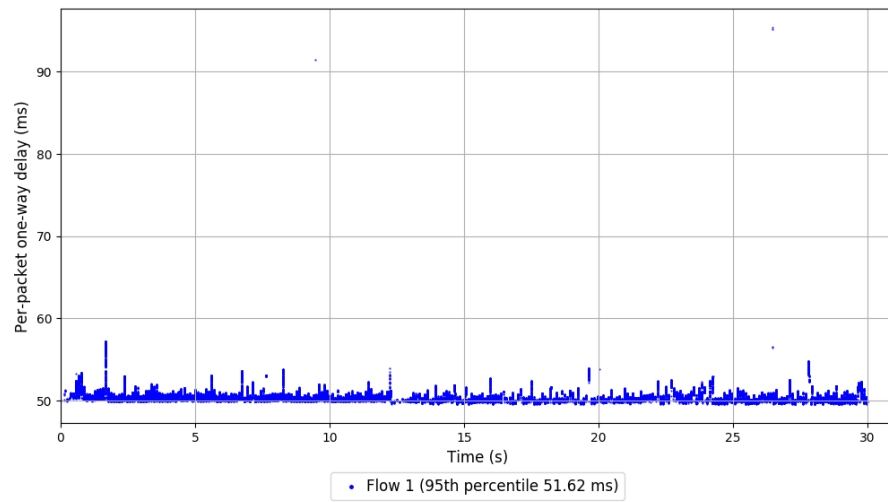
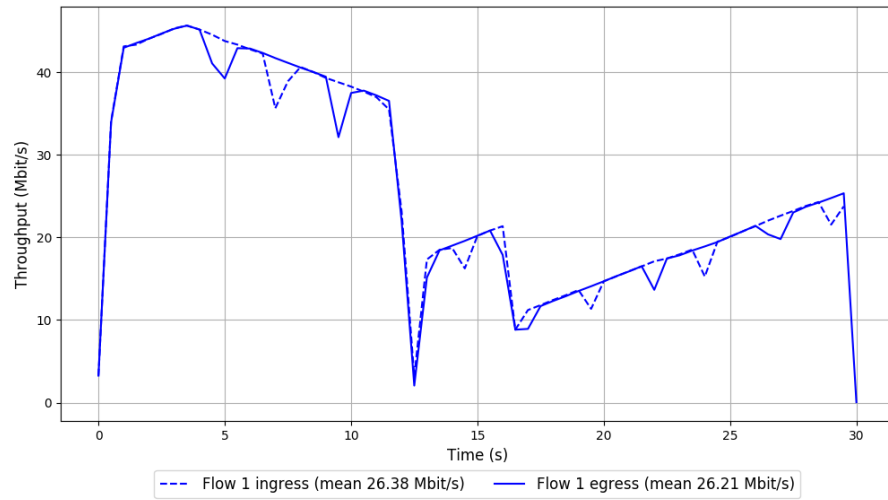
-- Flow 1:

Average throughput: 26.21 Mbit/s

95th percentile per-packet one-way delay: 51.622 ms

Loss rate: 0.66%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-26 01:19:19

End at: 2018-01-26 01:19:49

Below is generated by plot.py at 2018-01-26 03:05:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.14 Mbit/s

95th percentile per-packet one-way delay: 50.487 ms

Loss rate: 0.70%

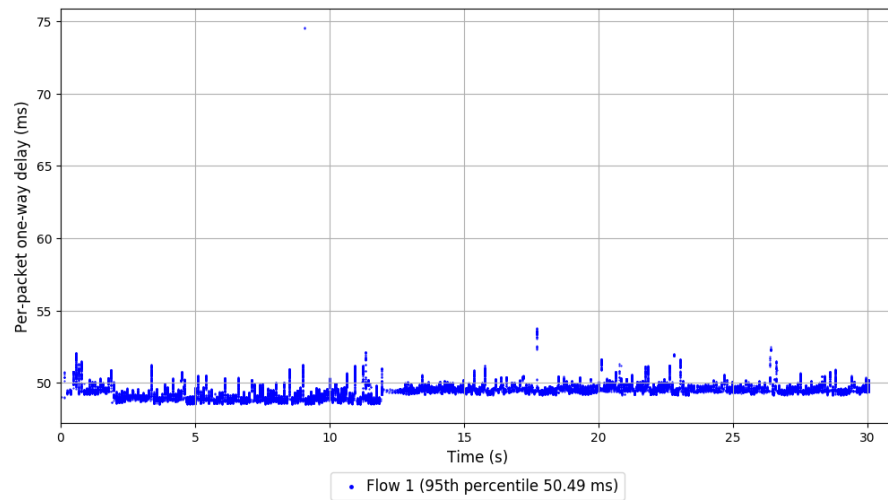
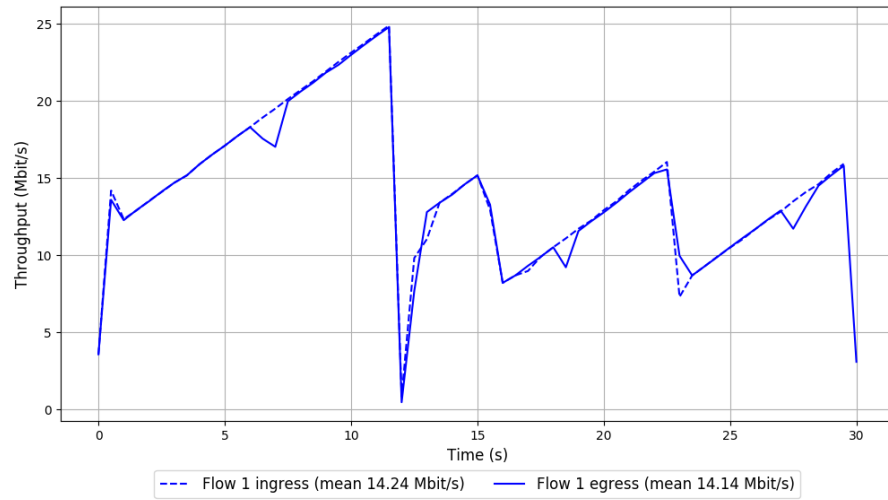
-- Flow 1:

Average throughput: 14.14 Mbit/s

95th percentile per-packet one-way delay: 50.487 ms

Loss rate: 0.70%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-26 01:30:54

End at: 2018-01-26 01:31:24

Below is generated by plot.py at 2018-01-26 03:05:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.09 Mbit/s

95th percentile per-packet one-way delay: 50.315 ms

Loss rate: 0.41%

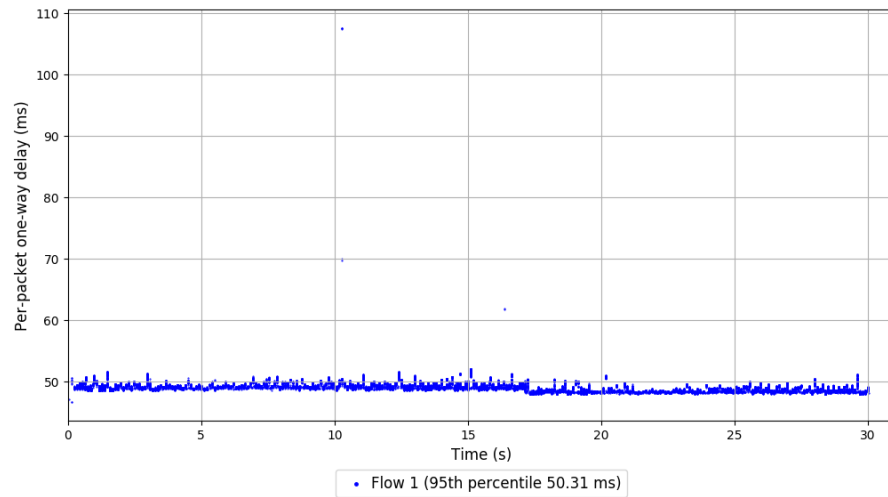
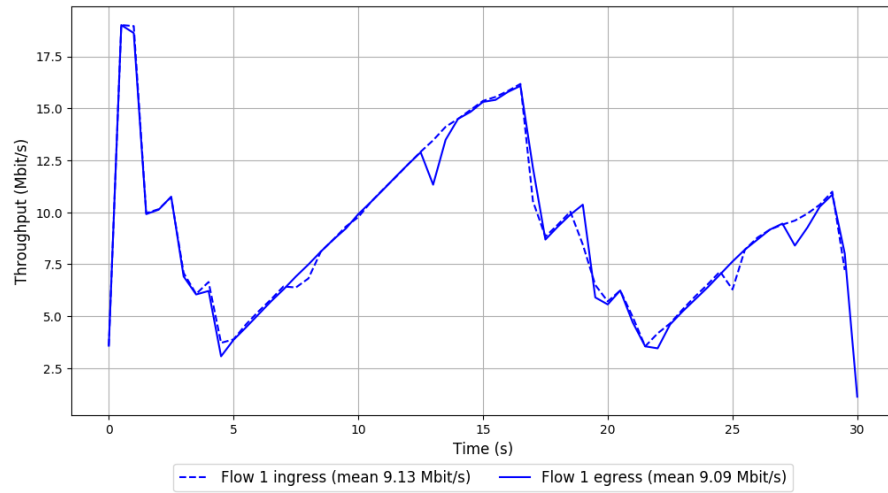
-- Flow 1:

Average throughput: 9.09 Mbit/s

95th percentile per-packet one-way delay: 50.315 ms

Loss rate: 0.41%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-26 01:42:12

End at: 2018-01-26 01:42:43

Below is generated by plot.py at 2018-01-26 03:05:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.22 Mbit/s

95th percentile per-packet one-way delay: 65.315 ms

Loss rate: 0.03%

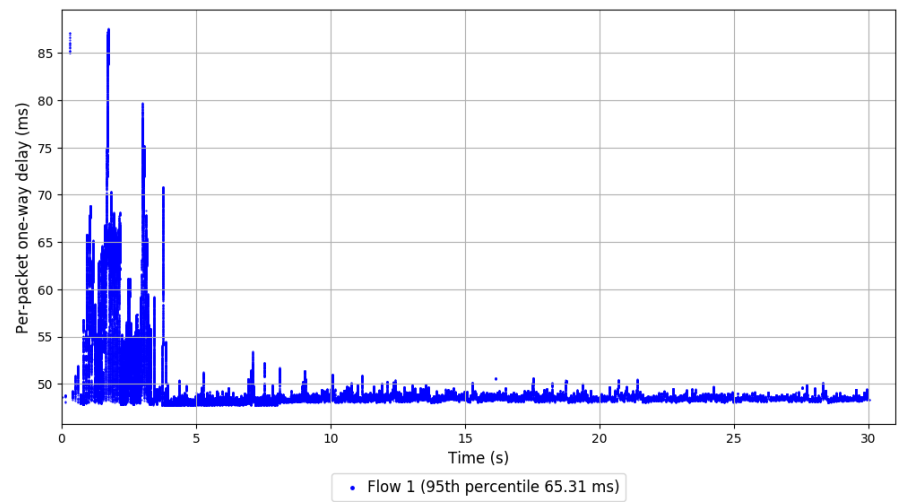
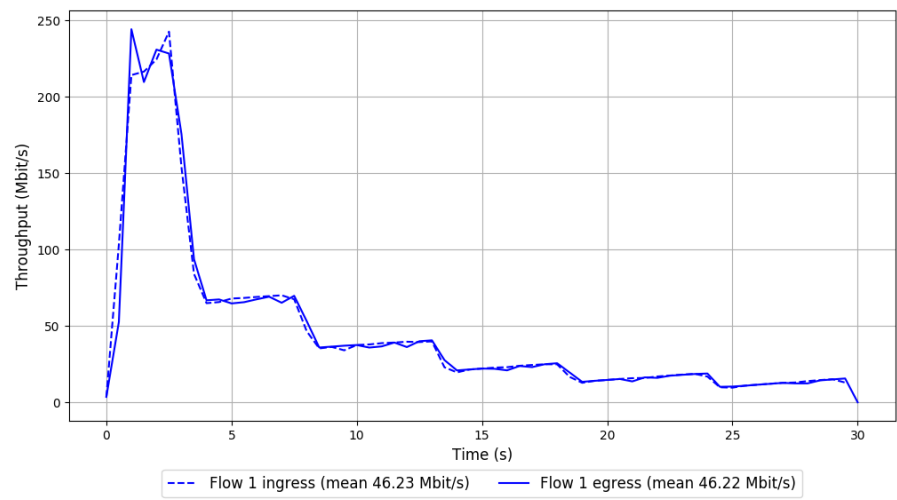
-- Flow 1:

Average throughput: 46.22 Mbit/s

95th percentile per-packet one-way delay: 65.315 ms

Loss rate: 0.03%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-01-25 23:57:26

End at: 2018-01-25 23:57:56

Below is generated by plot.py at 2018-01-26 03:05:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.50 Mbit/s

95th percentile per-packet one-way delay: 156.156 ms

Loss rate: 2.16%

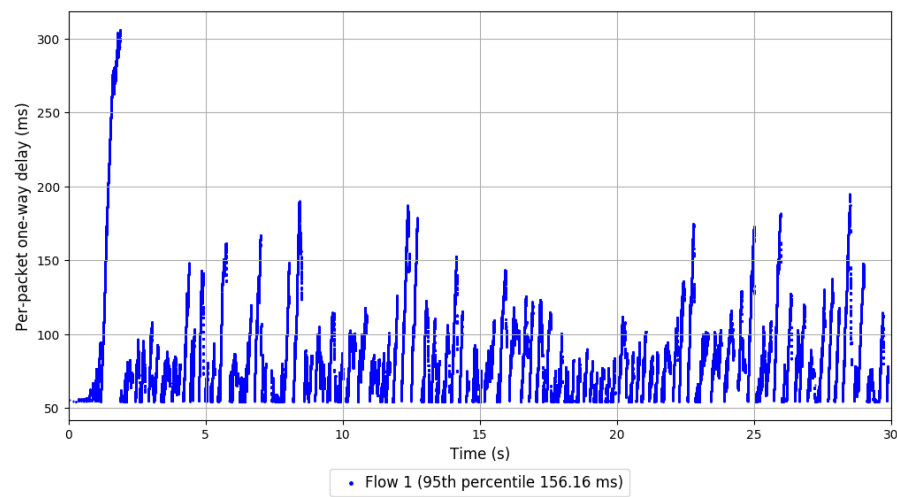
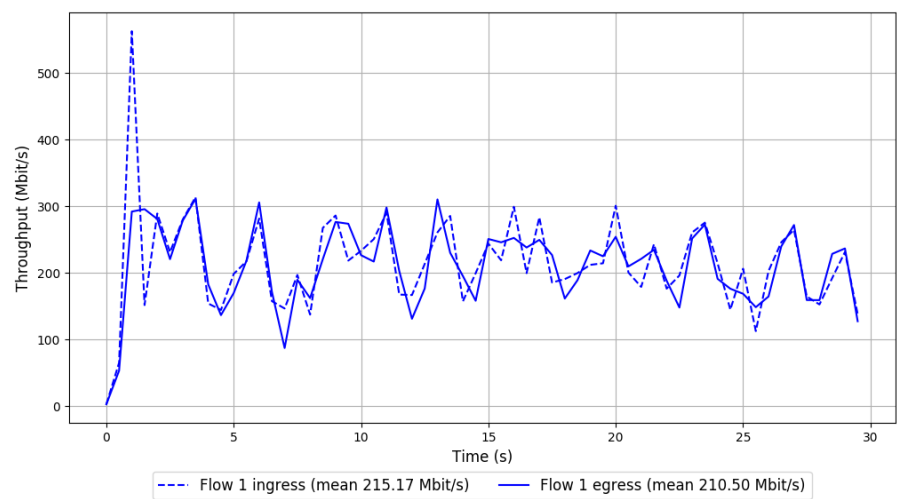
-- Flow 1:

Average throughput: 210.50 Mbit/s

95th percentile per-packet one-way delay: 156.156 ms

Loss rate: 2.16%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-26 00:09:12

End at: 2018-01-26 00:09:42

Below is generated by plot.py at 2018-01-26 03:05:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 240.52 Mbit/s

95th percentile per-packet one-way delay: 119.826 ms

Loss rate: 0.95%

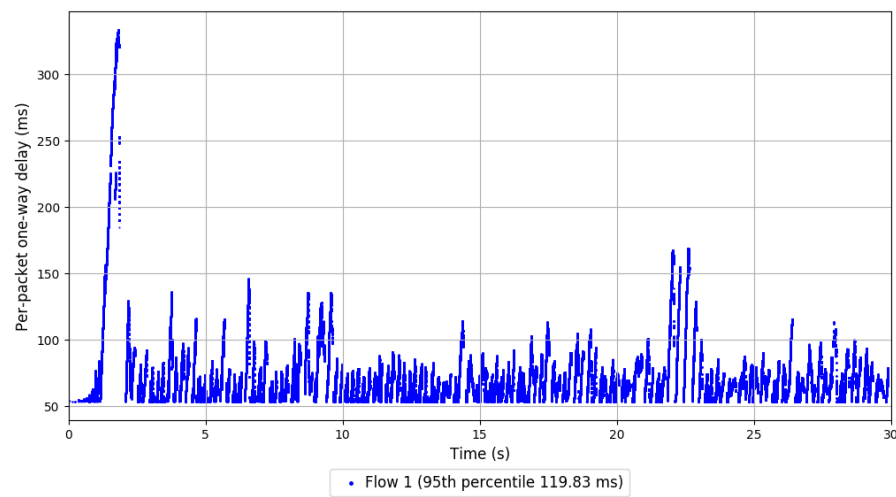
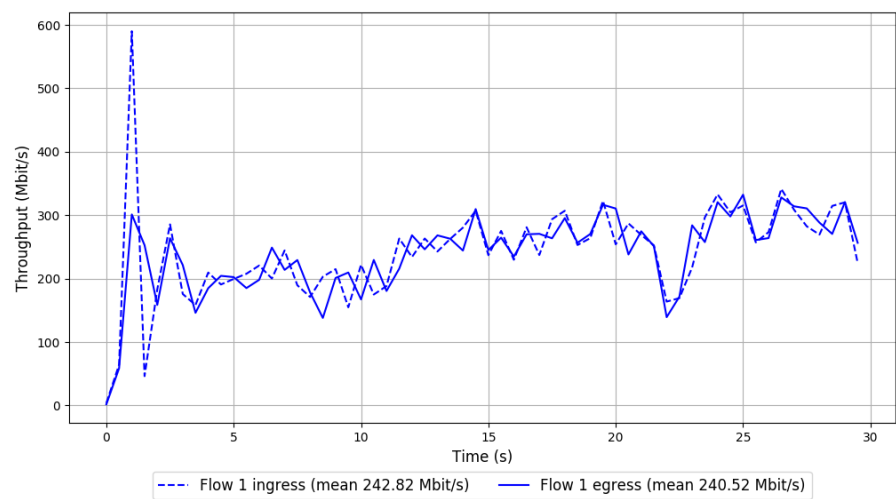
-- Flow 1:

Average throughput: 240.52 Mbit/s

95th percentile per-packet one-way delay: 119.826 ms

Loss rate: 0.95%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-26 00:20:56

End at: 2018-01-26 00:21:26

Below is generated by plot.py at 2018-01-26 03:05:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.28 Mbit/s

95th percentile per-packet one-way delay: 113.832 ms

Loss rate: 0.45%

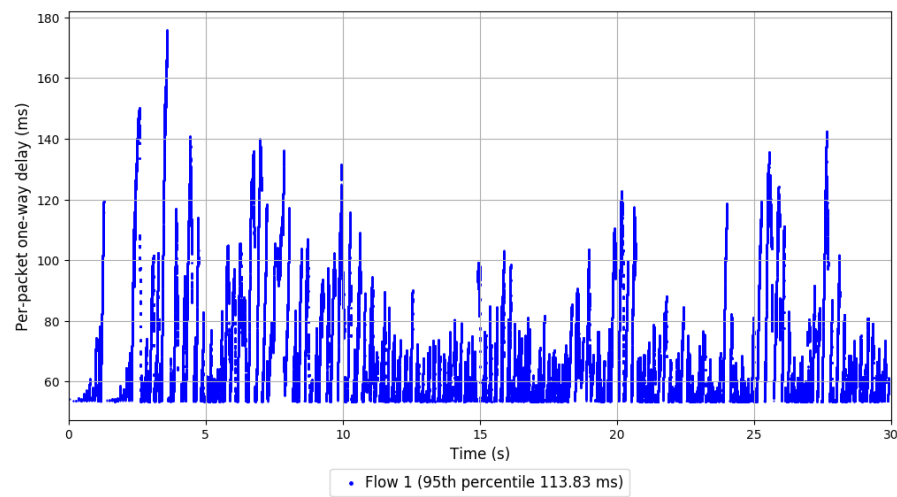
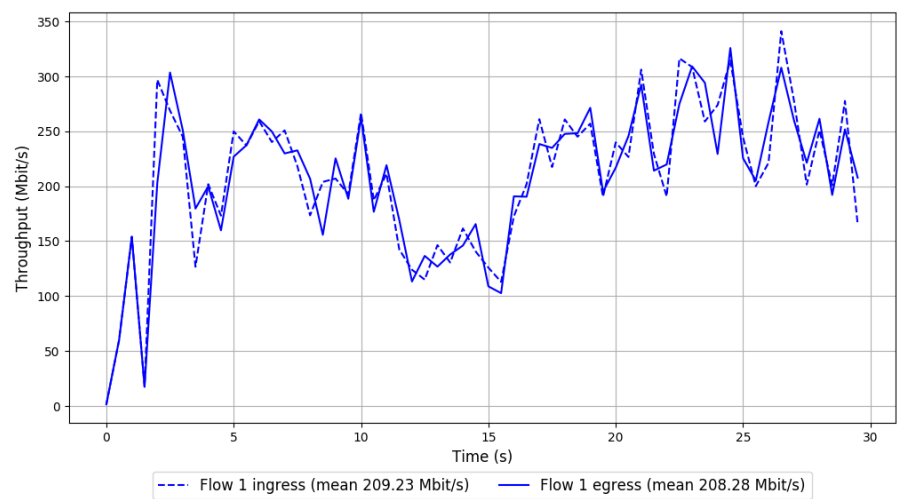
-- Flow 1:

Average throughput: 208.28 Mbit/s

95th percentile per-packet one-way delay: 113.832 ms

Loss rate: 0.45%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-26 00:32:36

End at: 2018-01-26 00:33:06

Below is generated by plot.py at 2018-01-26 03:05:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.99 Mbit/s

95th percentile per-packet one-way delay: 111.181 ms

Loss rate: 0.27%

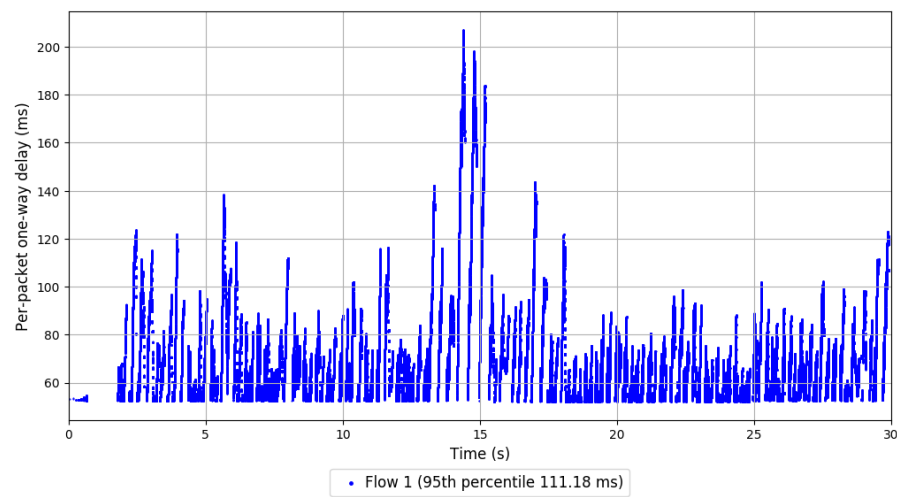
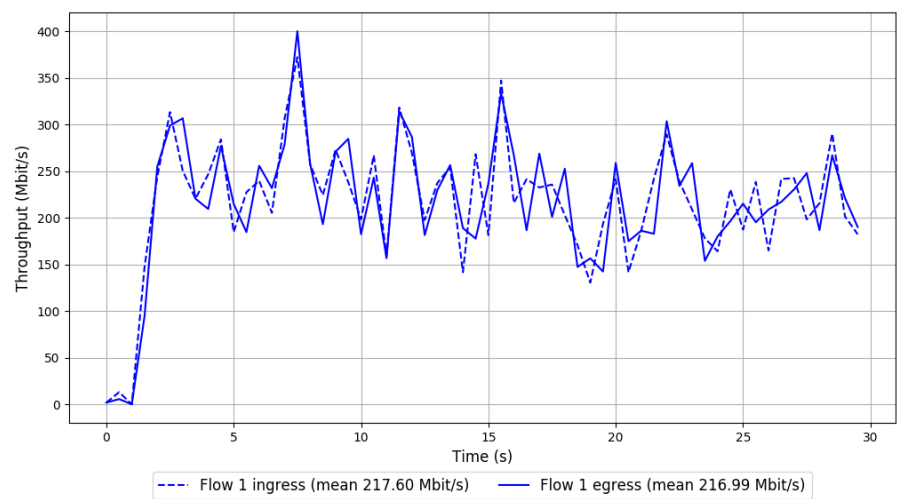
-- Flow 1:

Average throughput: 216.99 Mbit/s

95th percentile per-packet one-way delay: 111.181 ms

Loss rate: 0.27%

Run 4: Report of Verus — Data Link

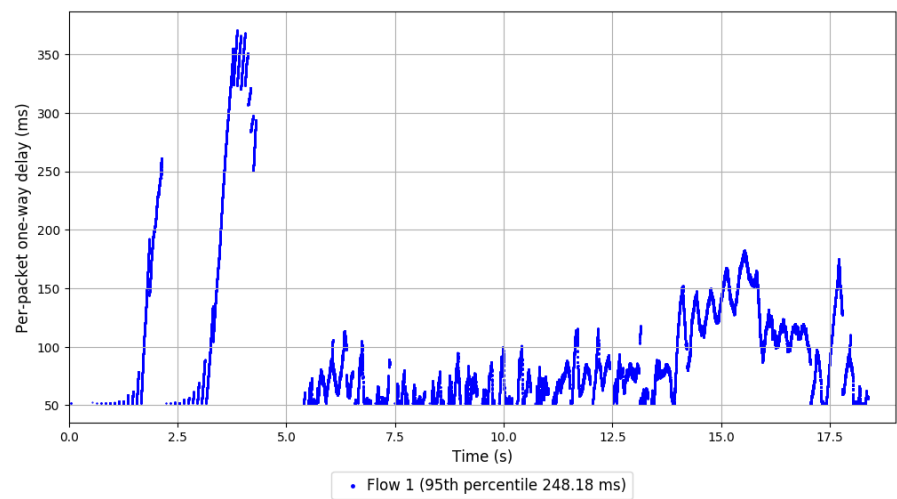
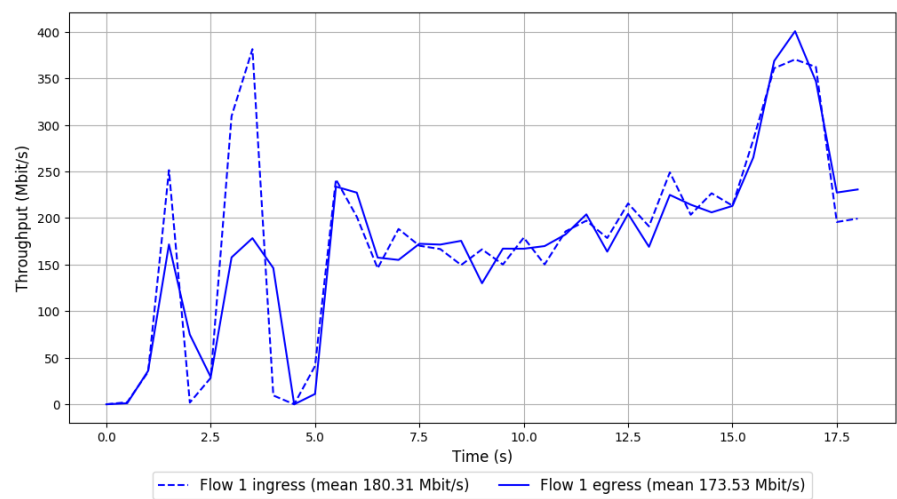


Run 5: Statistics of Verus

Start at: 2018-01-26 00:44:06

End at: 2018-01-26 00:44:36

Run 5: Report of Verus — Data Link

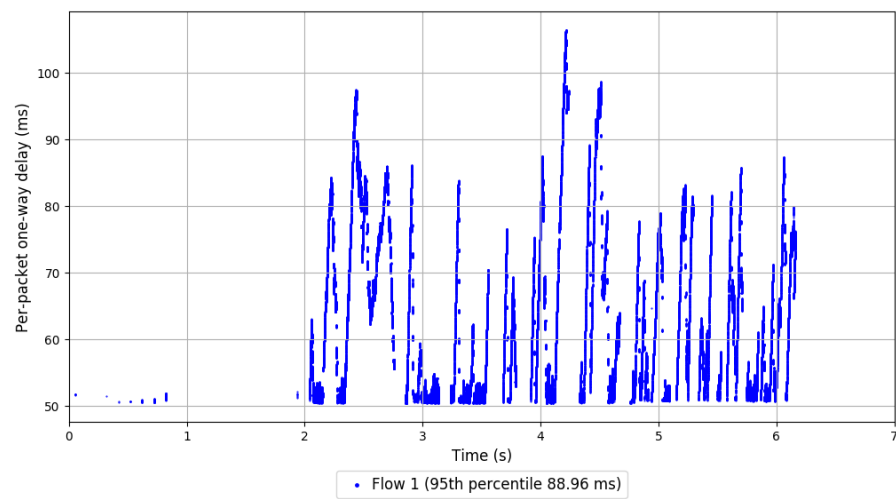
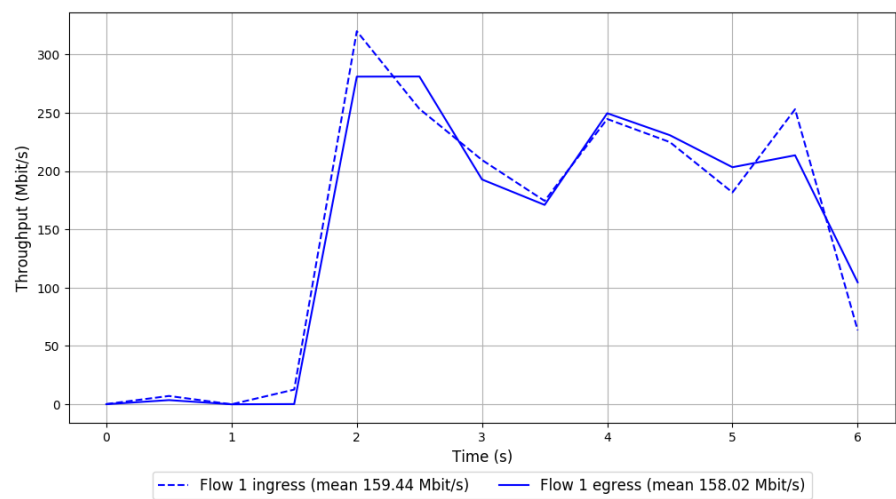


Run 6: Statistics of Verus

Start at: 2018-01-26 00:55:22

End at: 2018-01-26 00:55:52

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-26 01:06:47

End at: 2018-01-26 01:07:17

Below is generated by plot.py at 2018-01-26 03:07:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.26 Mbit/s

95th percentile per-packet one-way delay: 136.102 ms

Loss rate: 0.72%

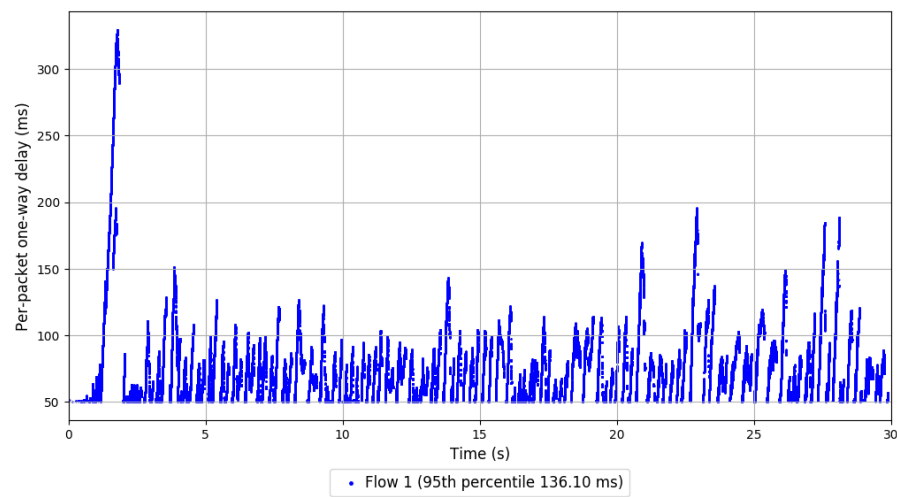
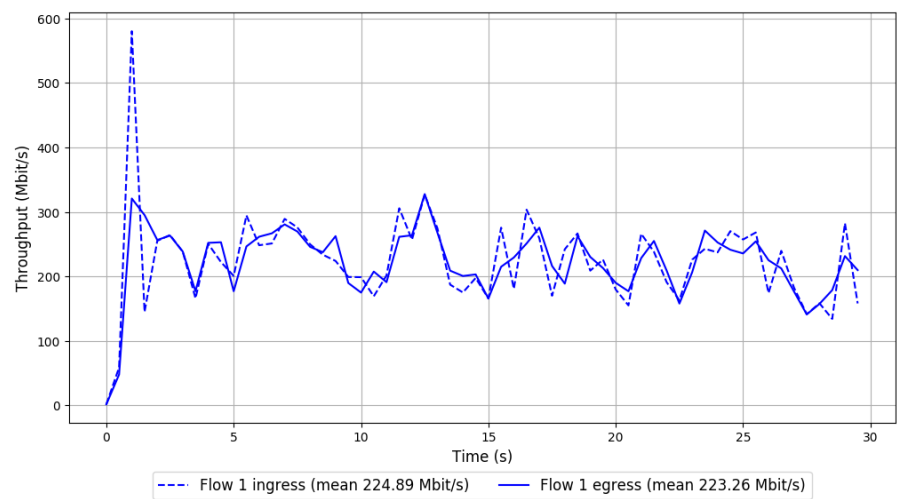
-- Flow 1:

Average throughput: 223.26 Mbit/s

95th percentile per-packet one-way delay: 136.102 ms

Loss rate: 0.72%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-26 01:18:29

End at: 2018-01-26 01:18:59

Below is generated by plot.py at 2018-01-26 03:07:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.87 Mbit/s

95th percentile per-packet one-way delay: 134.879 ms

Loss rate: 2.60%

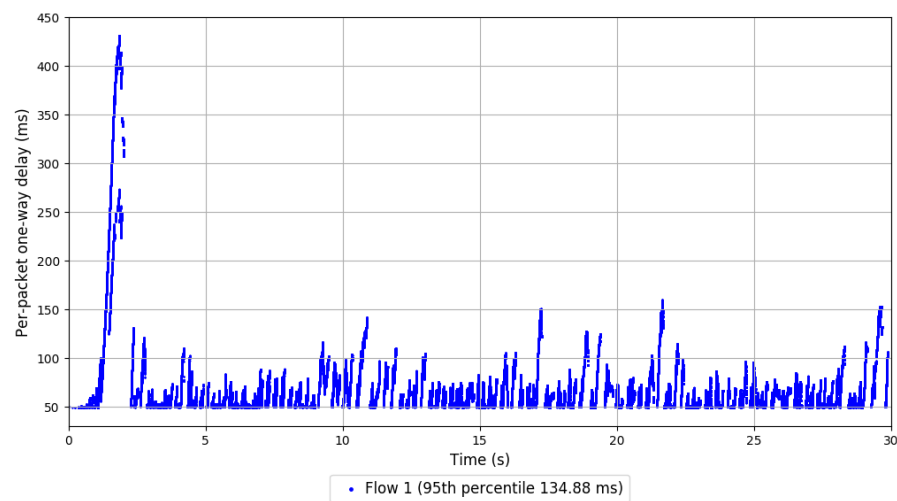
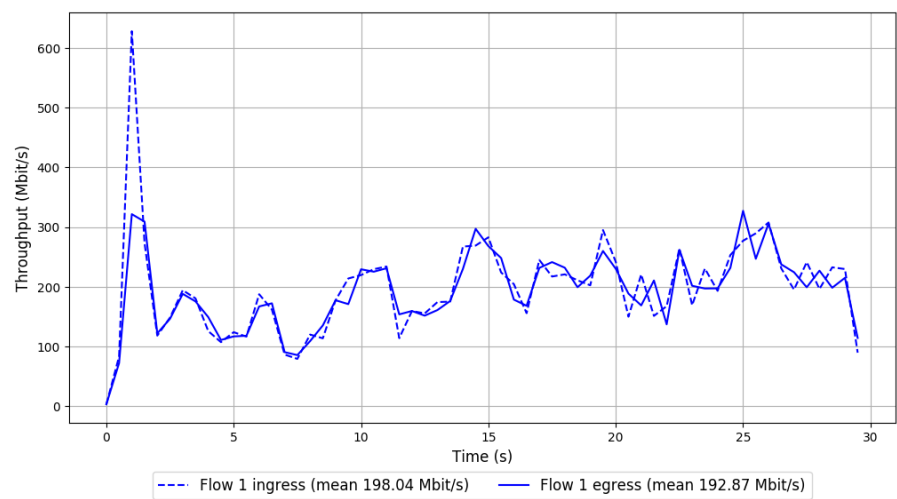
-- Flow 1:

Average throughput: 192.87 Mbit/s

95th percentile per-packet one-way delay: 134.879 ms

Loss rate: 2.60%

Run 8: Report of Verus — Data Link

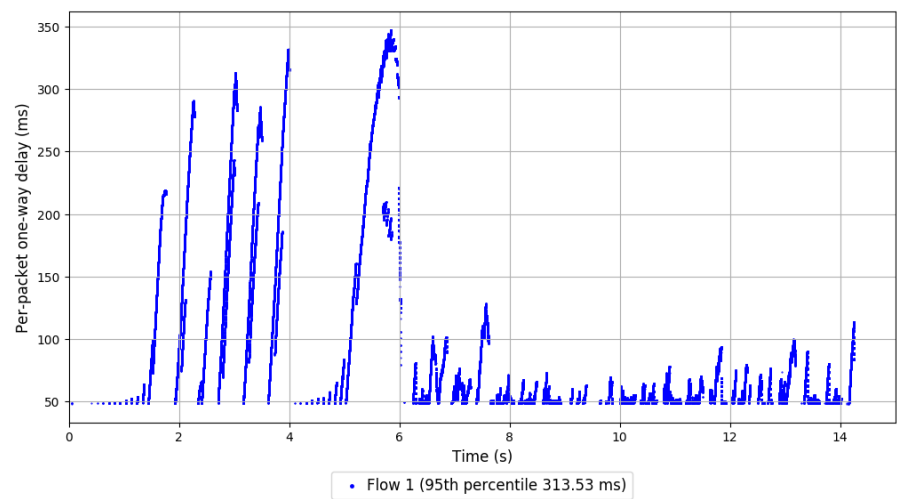
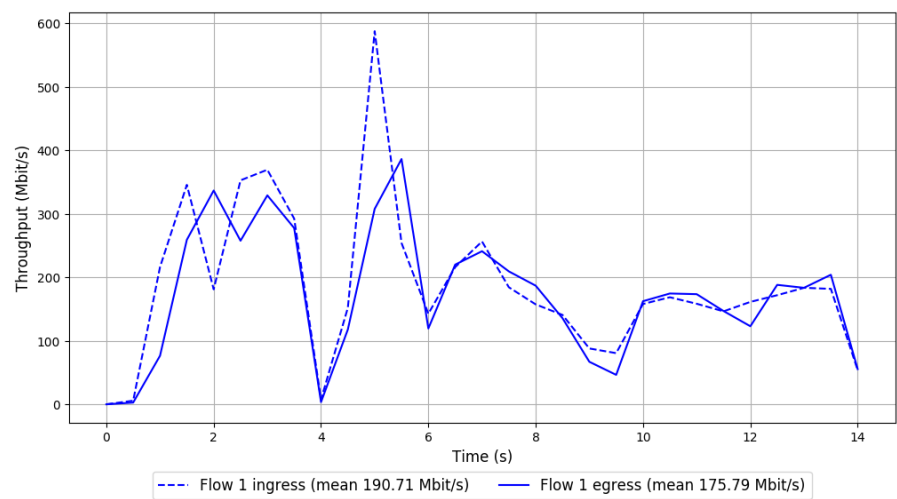


Run 9: Statistics of Verus

Start at: 2018-01-26 01:30:11

End at: 2018-01-26 01:30:41

Run 9: Report of Verus — Data Link

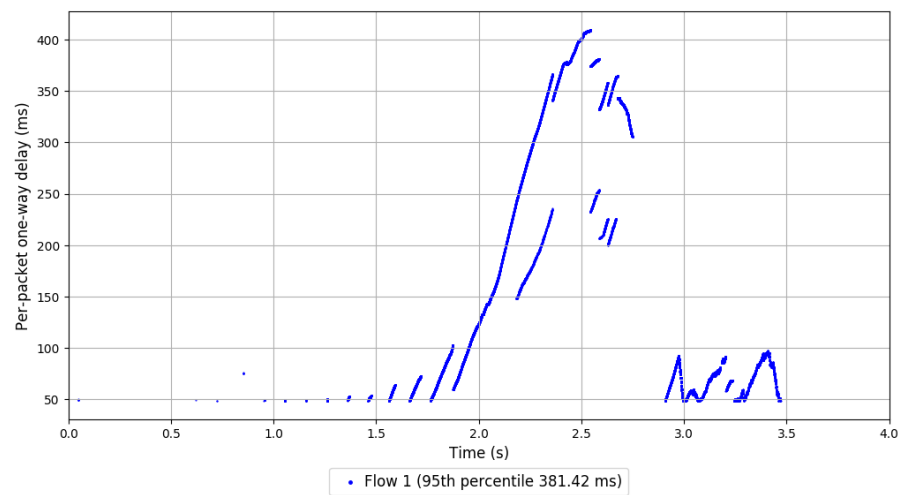
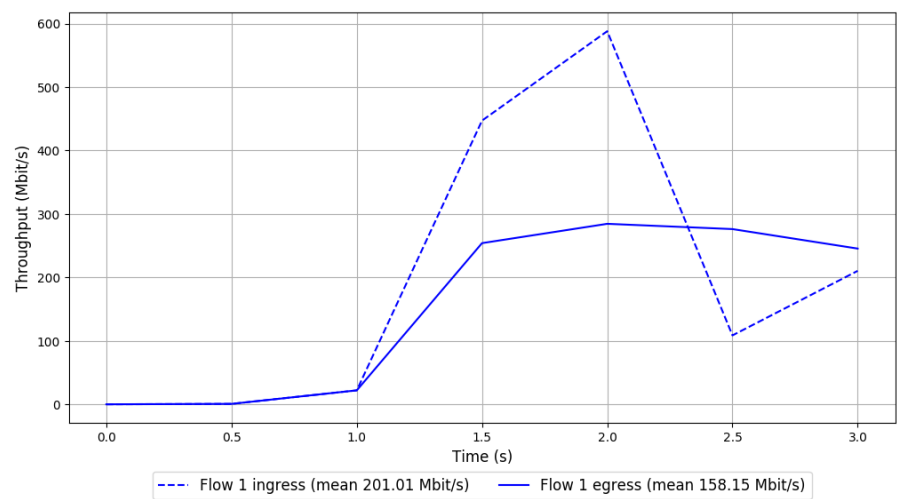


Run 10: Statistics of Verus

Start at: 2018-01-26 01:41:34

End at: 2018-01-26 01:42:04

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-01-26 00:05:46

End at: 2018-01-26 00:06:16

Below is generated by plot.py at 2018-01-26 03:07:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.78 Mbit/s

95th percentile per-packet one-way delay: 54.427 ms

Loss rate: 0.00%

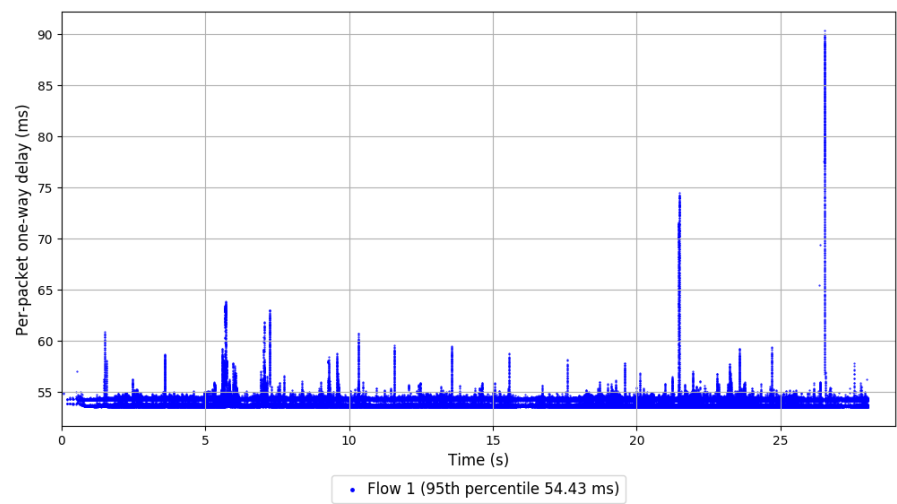
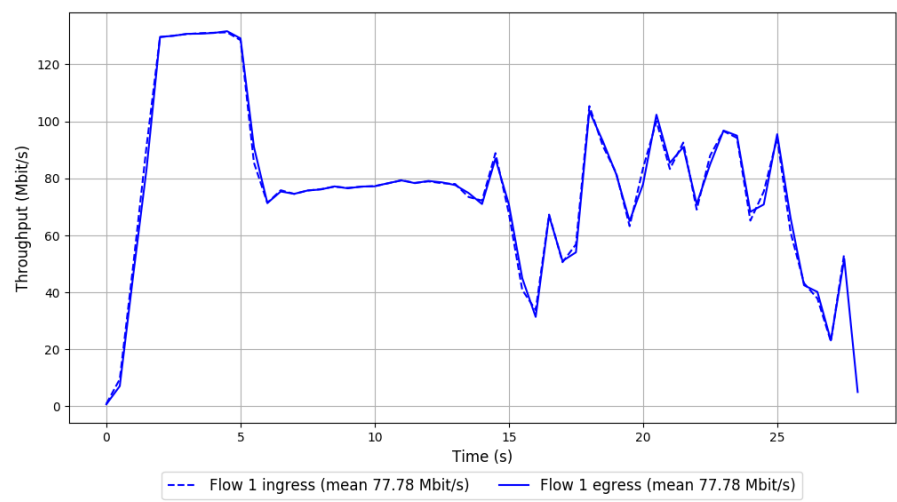
-- Flow 1:

Average throughput: 77.78 Mbit/s

95th percentile per-packet one-way delay: 54.427 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-26 00:17:30

End at: 2018-01-26 00:18:00

Below is generated by plot.py at 2018-01-26 03:07:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.28 Mbit/s

95th percentile per-packet one-way delay: 54.125 ms

Loss rate: 0.00%

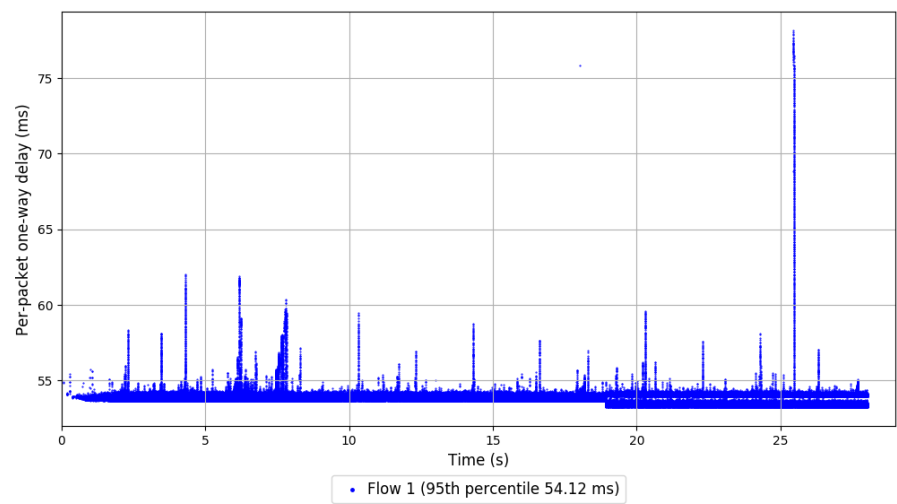
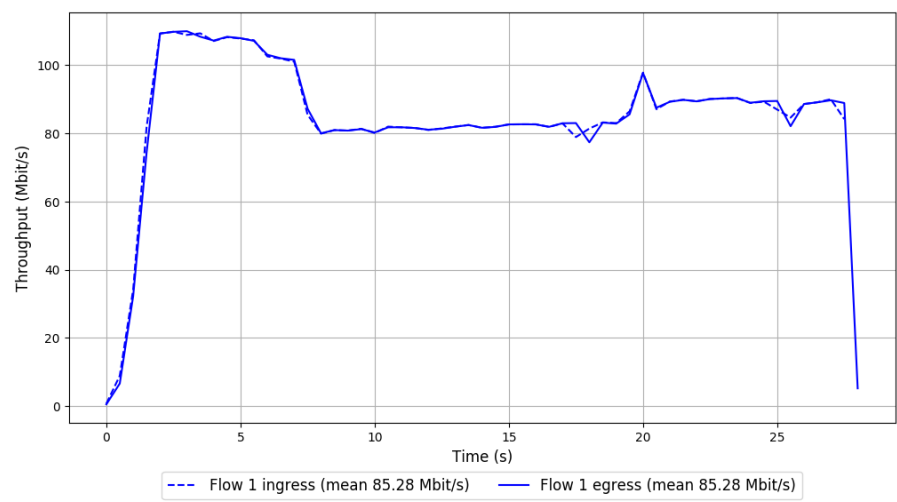
-- Flow 1:

Average throughput: 85.28 Mbit/s

95th percentile per-packet one-way delay: 54.125 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-26 00:29:10

End at: 2018-01-26 00:29:40

Below is generated by plot.py at 2018-01-26 03:07:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.30 Mbit/s

95th percentile per-packet one-way delay: 52.866 ms

Loss rate: 0.00%

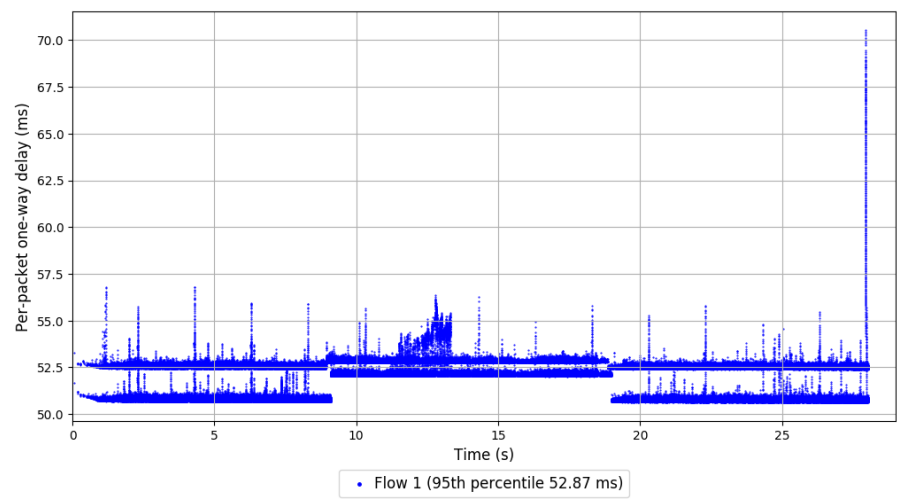
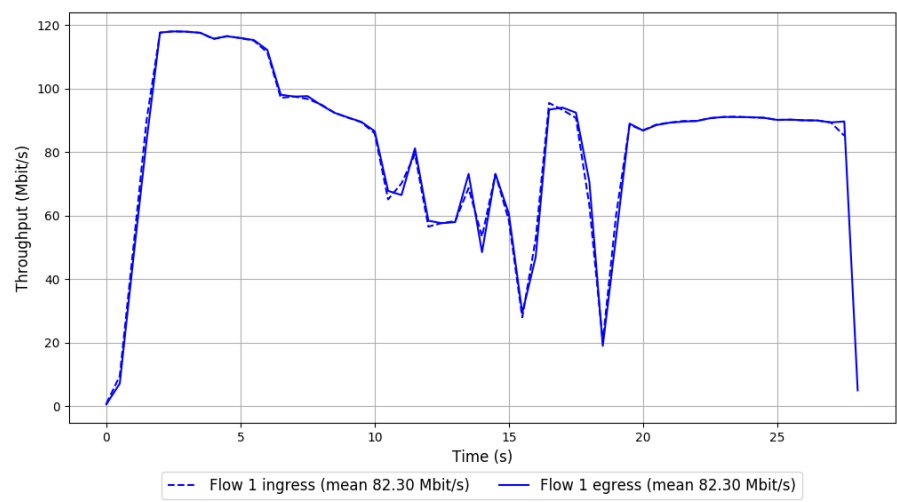
-- Flow 1:

Average throughput: 82.30 Mbit/s

95th percentile per-packet one-way delay: 52.866 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link

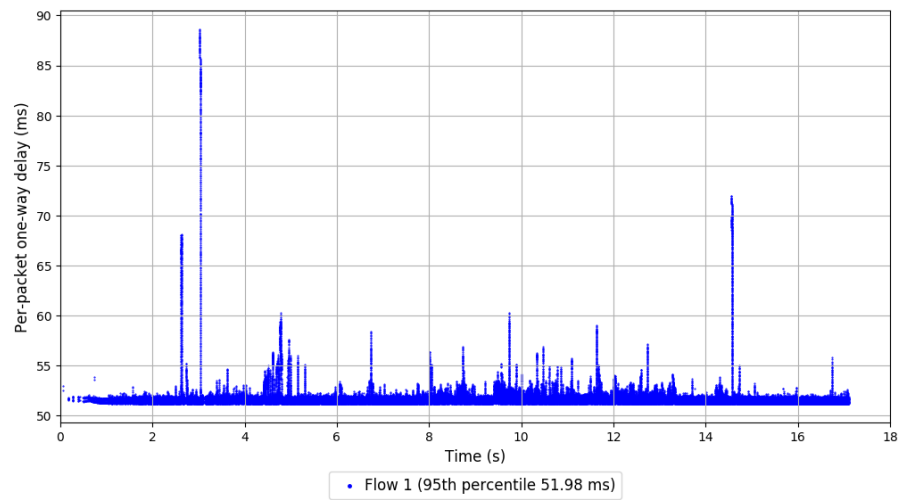
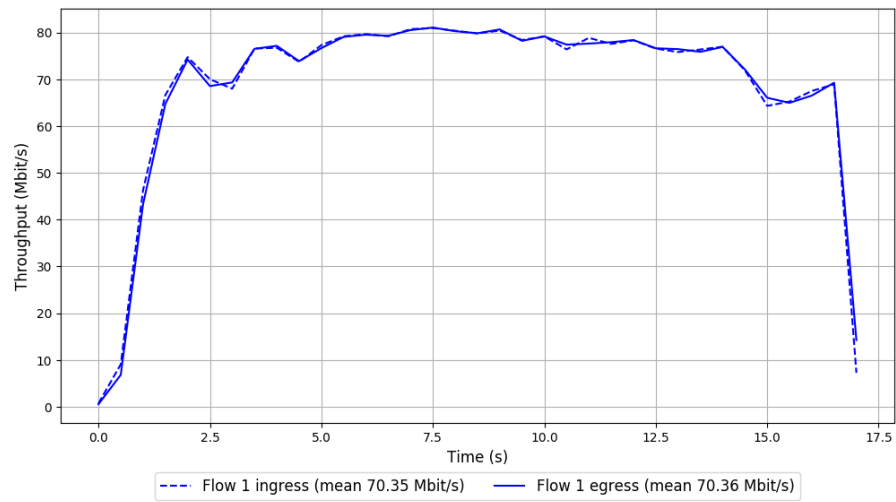


Run 4: Statistics of Copa

Start at: 2018-01-26 00:40:54

End at: 2018-01-26 00:41:24

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-26 00:52:04

End at: 2018-01-26 00:52:35

Below is generated by plot.py at 2018-01-26 03:07:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.87 Mbit/s

95th percentile per-packet one-way delay: 51.042 ms

Loss rate: 0.16%

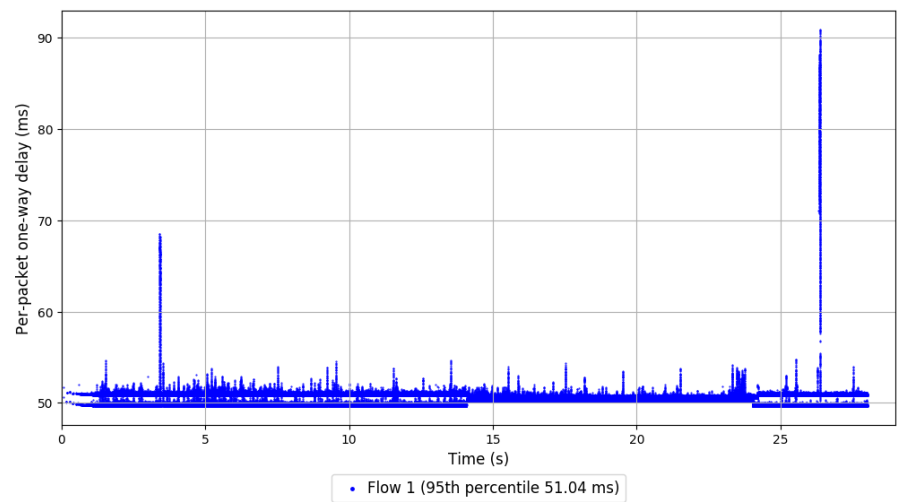
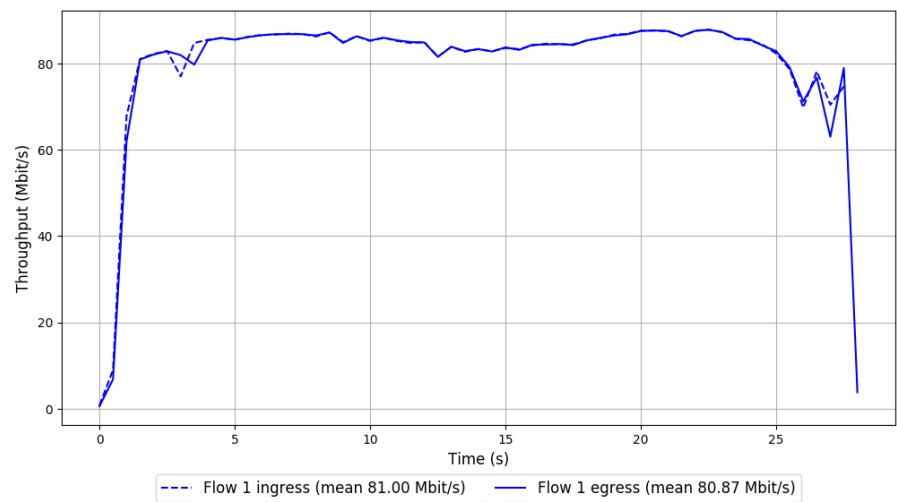
-- Flow 1:

Average throughput: 80.87 Mbit/s

95th percentile per-packet one-way delay: 51.042 ms

Loss rate: 0.16%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-26 01:03:20

End at: 2018-01-26 01:03:50

Below is generated by plot.py at 2018-01-26 03:08:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.04 Mbit/s

95th percentile per-packet one-way delay: 50.336 ms

Loss rate: 0.00%

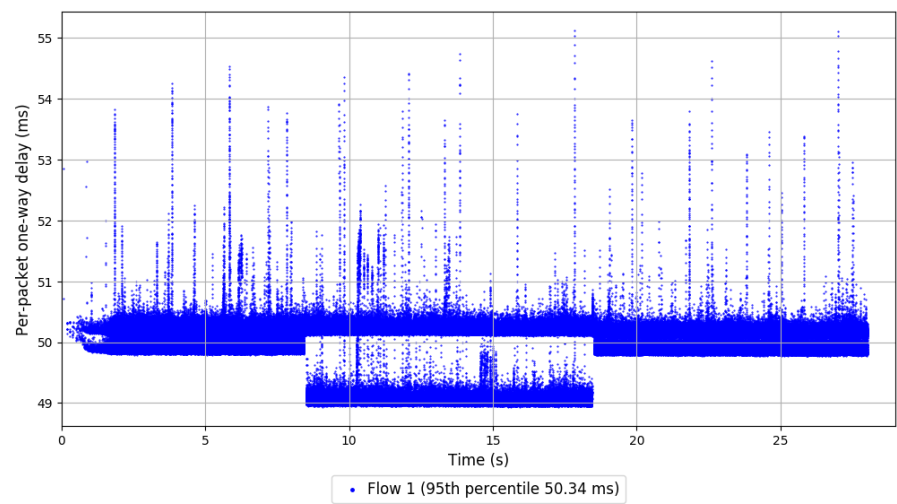
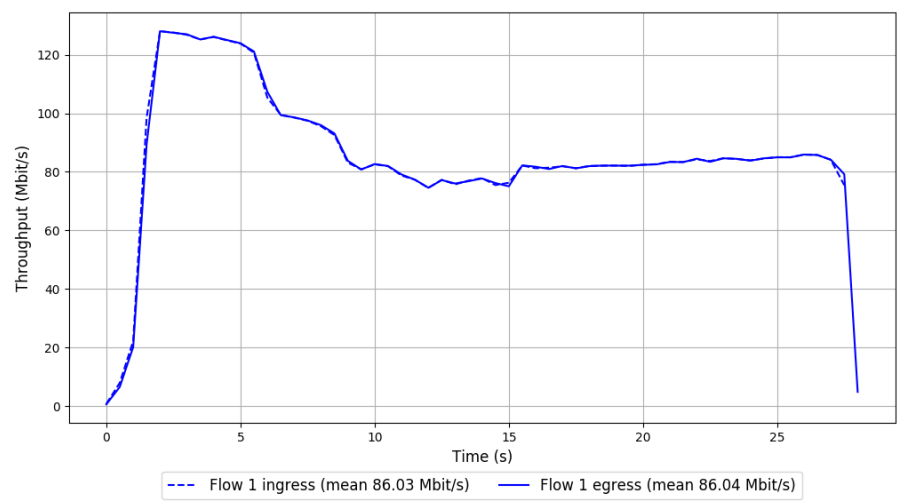
-- Flow 1:

Average throughput: 86.04 Mbit/s

95th percentile per-packet one-way delay: 50.336 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-26 01:15:04

End at: 2018-01-26 01:15:34

Below is generated by plot.py at 2018-01-26 03:08:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.32 Mbit/s

95th percentile per-packet one-way delay: 49.590 ms

Loss rate: 0.00%

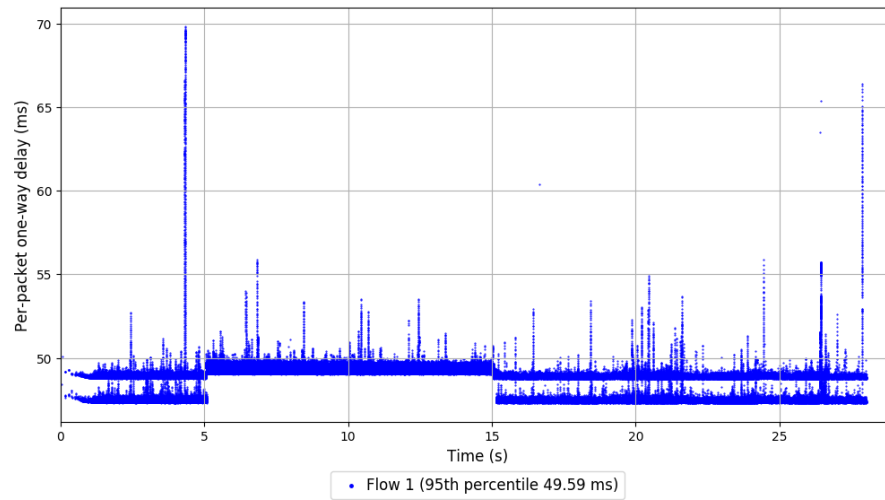
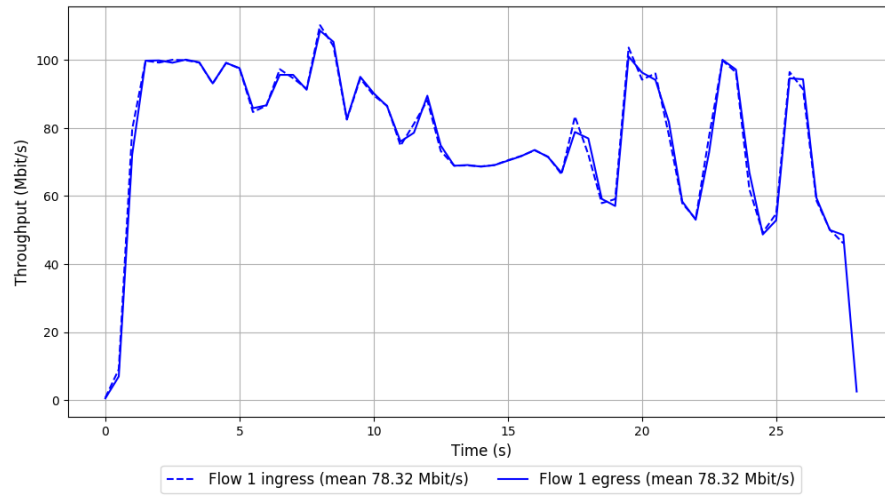
-- Flow 1:

Average throughput: 78.32 Mbit/s

95th percentile per-packet one-way delay: 49.590 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-26 01:26:44

End at: 2018-01-26 01:27:14

Below is generated by plot.py at 2018-01-26 03:09:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.59 Mbit/s

95th percentile per-packet one-way delay: 48.895 ms

Loss rate: 0.00%

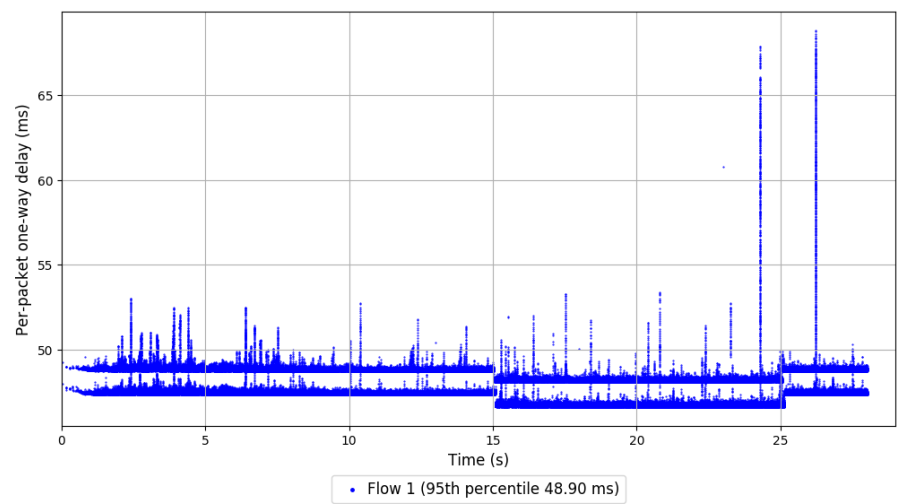
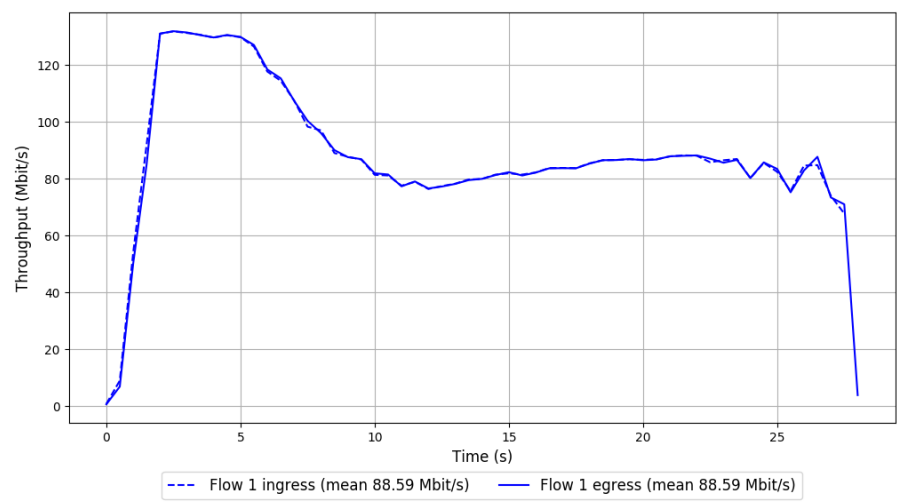
-- Flow 1:

Average throughput: 88.59 Mbit/s

95th percentile per-packet one-way delay: 48.895 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-26 01:38:19

End at: 2018-01-26 01:38:49

Below is generated by plot.py at 2018-01-26 03:09:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.10 Mbit/s

95th percentile per-packet one-way delay: 48.340 ms

Loss rate: 0.00%

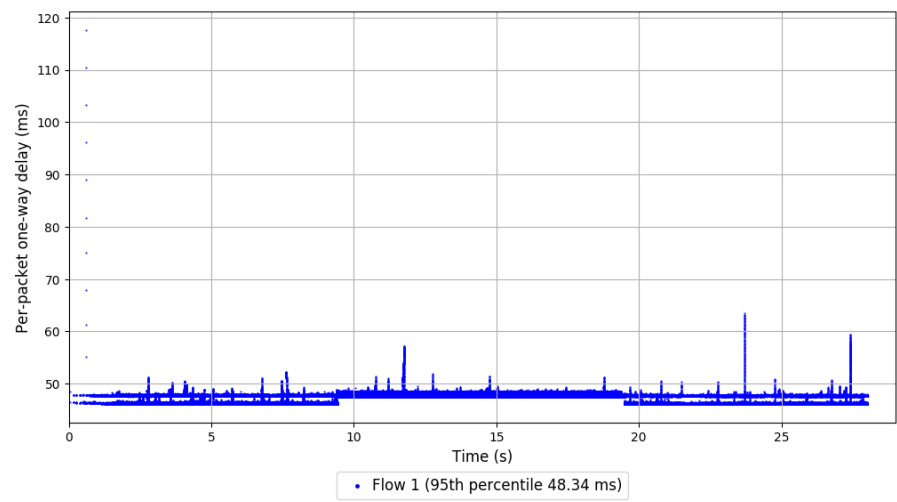
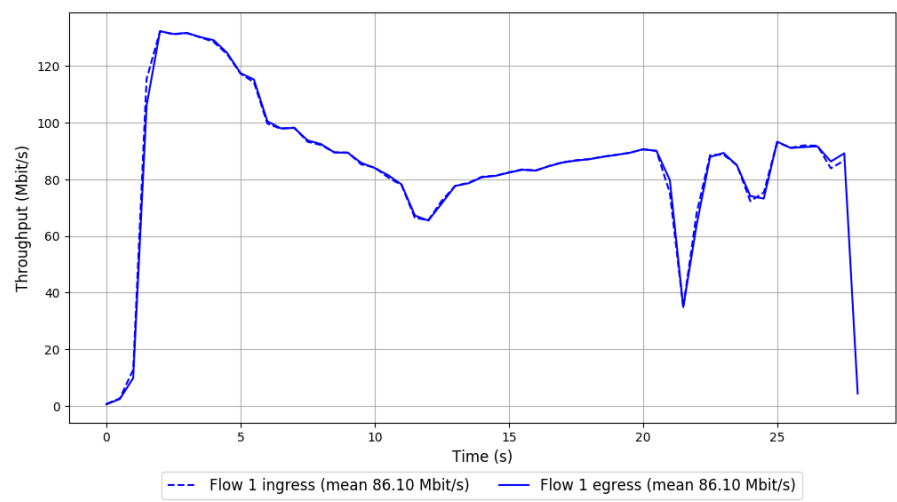
-- Flow 1:

Average throughput: 86.10 Mbit/s

95th percentile per-packet one-way delay: 48.340 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-26 01:49:47

End at: 2018-01-26 01:50:17

Below is generated by plot.py at 2018-01-26 03:09:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.18 Mbit/s

95th percentile per-packet one-way delay: 47.991 ms

Loss rate: 0.19%

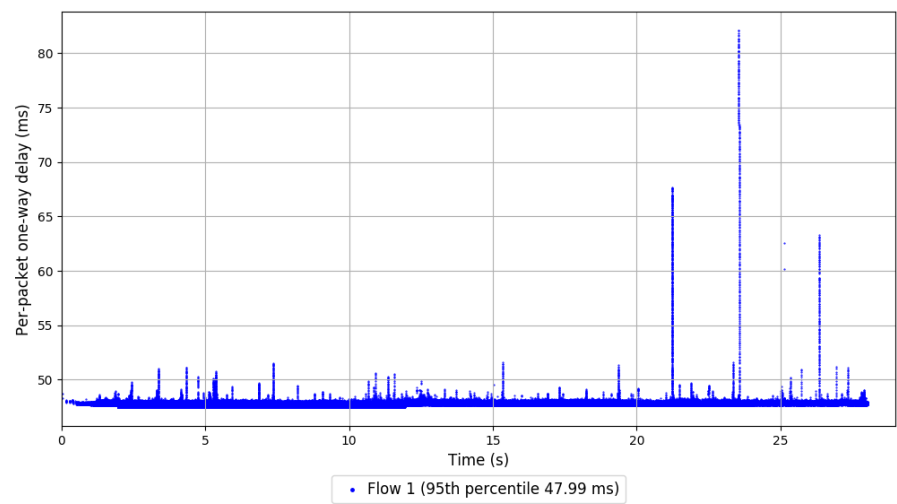
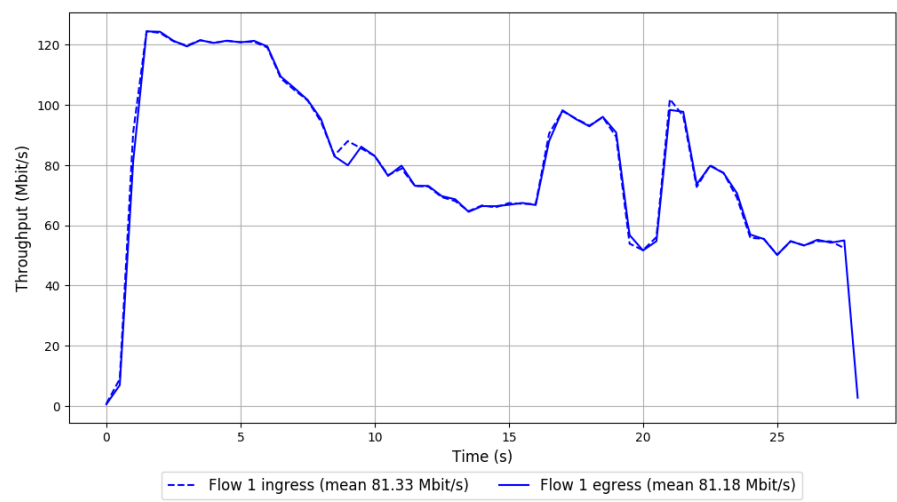
-- Flow 1:

Average throughput: 81.18 Mbit/s

95th percentile per-packet one-way delay: 47.991 ms

Loss rate: 0.19%

Run 10: Report of Copa — Data Link

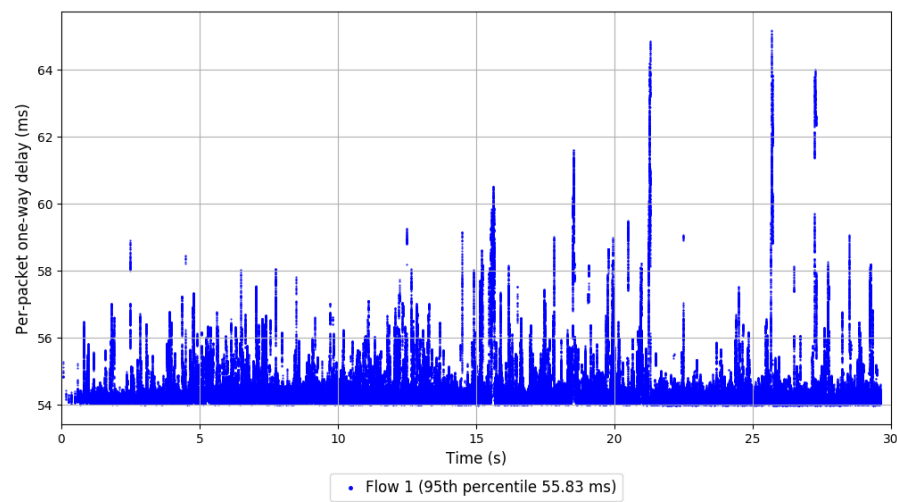
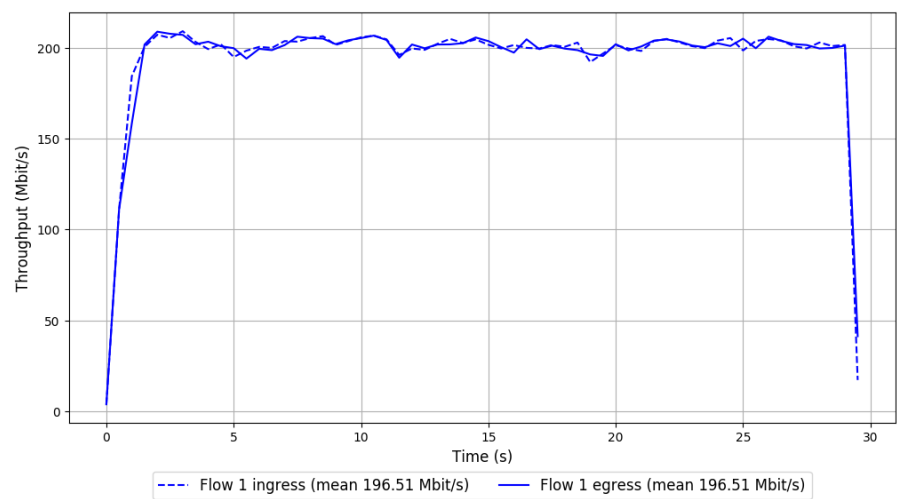


```
Run 1: Statistics of Indigo-2-256

Start at: 2018-01-26 00:01:21
End at: 2018-01-26 00:01:51

# Below is generated by plot.py at 2018-01-26 03:10:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 196.51 Mbit/s
95th percentile per-packet one-way delay: 55.830 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 196.51 Mbit/s
95th percentile per-packet one-way delay: 55.830 ms
Loss rate: 0.01%
```


Run 1: Report of Indigo-2-256 — Data Link

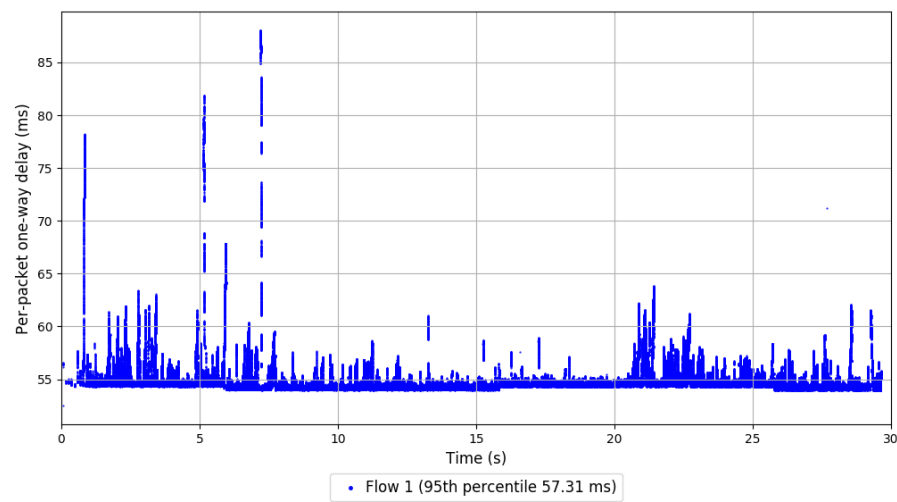
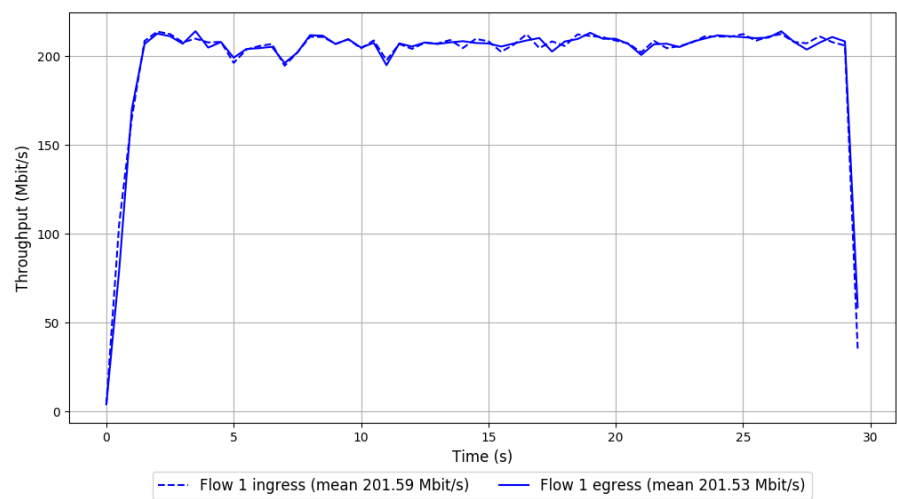


```
Run 2: Statistics of Indigo-2-256

Start at: 2018-01-26 00:13:04
End at: 2018-01-26 00:13:34

# Below is generated by plot.py at 2018-01-26 03:10:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 201.53 Mbit/s
95th percentile per-packet one-way delay: 57.313 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 201.53 Mbit/s
95th percentile per-packet one-way delay: 57.313 ms
Loss rate: 0.02%
```

Run 2: Report of Indigo-2-256 — Data Link



Run 3: Statistics of Indigo-2-256

Start at: 2018-01-26 00:24:44

End at: 2018-01-26 00:25:14

Below is generated by plot.py at 2018-01-26 03:11:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.68 Mbit/s

95th percentile per-packet one-way delay: 55.862 ms

Loss rate: 0.01%

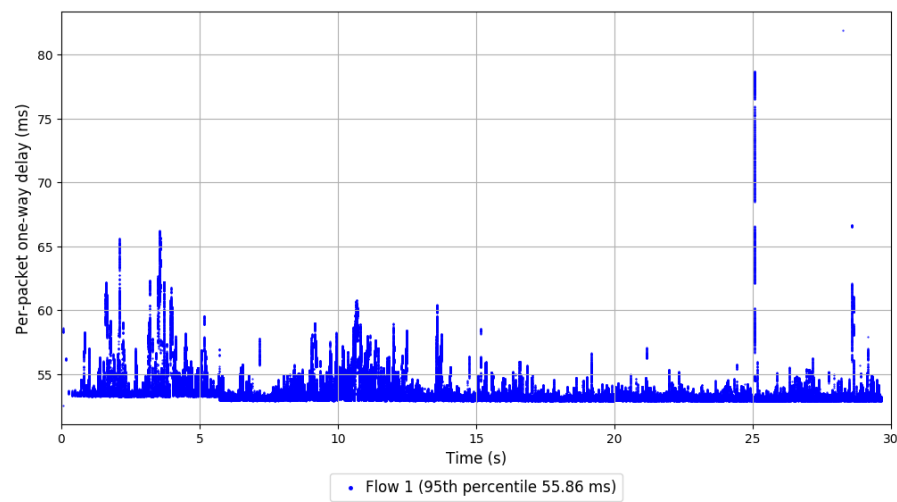
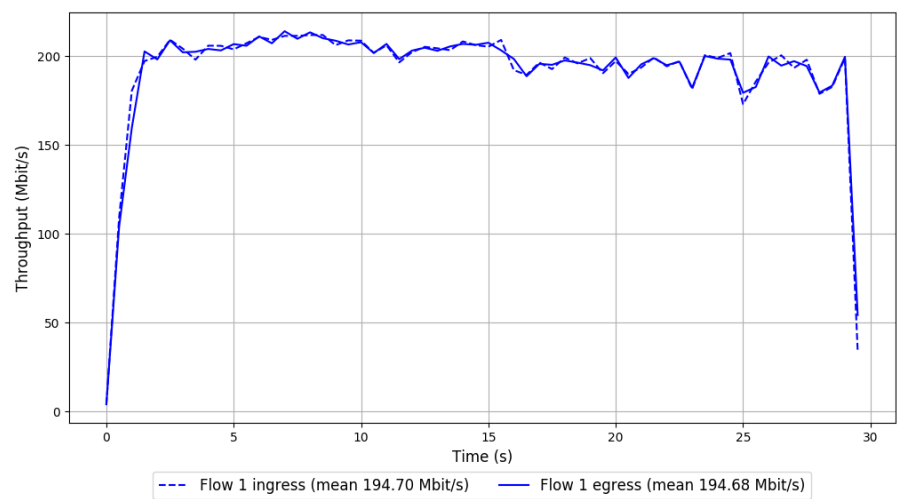
-- Flow 1:

Average throughput: 194.68 Mbit/s

95th percentile per-packet one-way delay: 55.862 ms

Loss rate: 0.01%

Run 3: Report of Indigo-2-256 — Data Link



Run 4: Statistics of Indigo-2-256

Start at: 2018-01-26 00:36:29

End at: 2018-01-26 00:36:59

Below is generated by plot.py at 2018-01-26 03:11:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.43 Mbit/s

95th percentile per-packet one-way delay: 54.652 ms

Loss rate: 0.02%

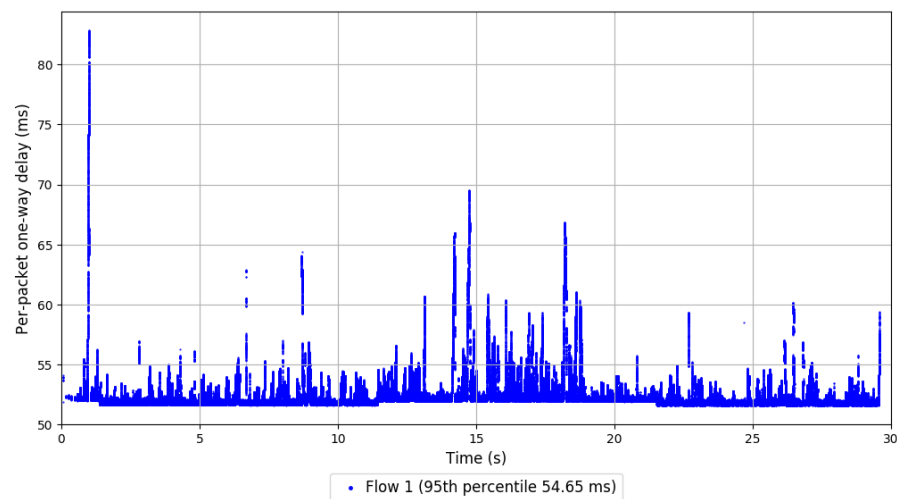
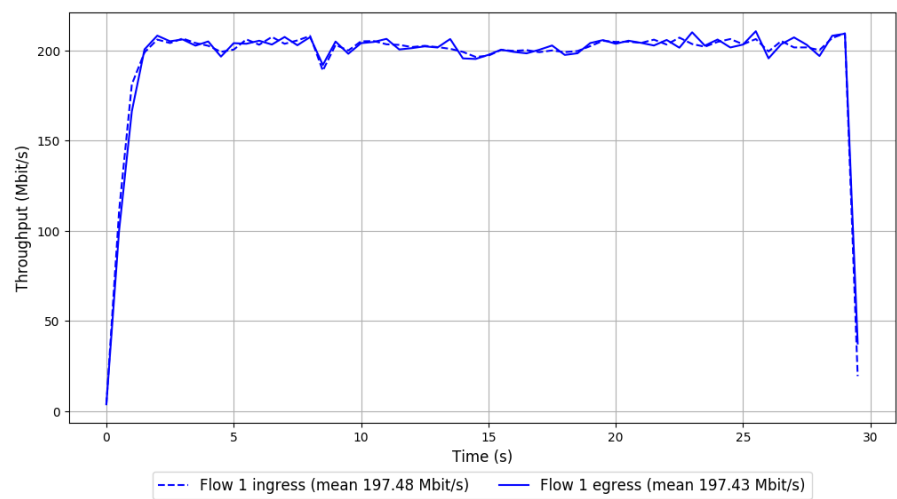
-- Flow 1:

Average throughput: 197.43 Mbit/s

95th percentile per-packet one-way delay: 54.652 ms

Loss rate: 0.02%

Run 4: Report of Indigo-2-256 — Data Link



Run 5: Statistics of Indigo-2-256

Start at: 2018-01-26 00:47:37

End at: 2018-01-26 00:48:07

Below is generated by plot.py at 2018-01-26 03:12:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.50 Mbit/s

95th percentile per-packet one-way delay: 53.481 ms

Loss rate: 0.01%

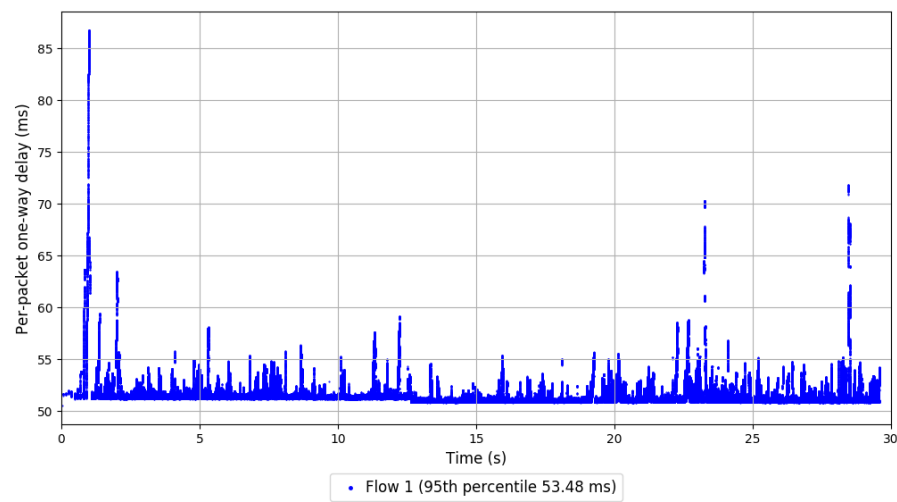
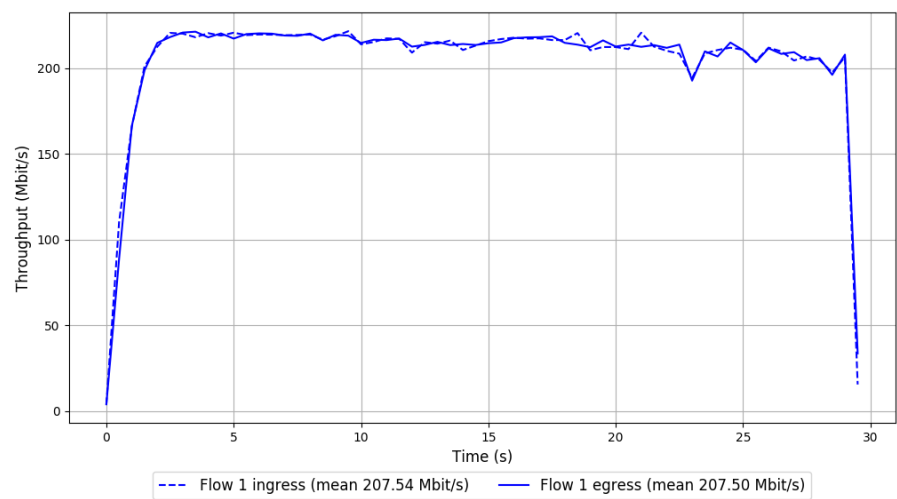
-- Flow 1:

Average throughput: 207.50 Mbit/s

95th percentile per-packet one-way delay: 53.481 ms

Loss rate: 0.01%

Run 5: Report of Indigo-2-256 — Data Link



Run 6: Statistics of Indigo-2-256

Start at: 2018-01-26 00:58:55

End at: 2018-01-26 00:59:25

Below is generated by plot.py at 2018-01-26 03:12:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.27 Mbit/s

95th percentile per-packet one-way delay: 52.989 ms

Loss rate: 0.01%

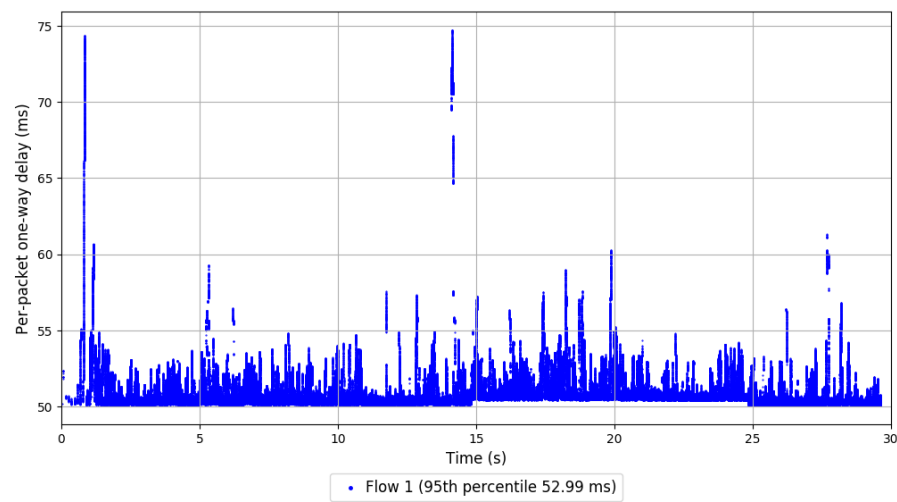
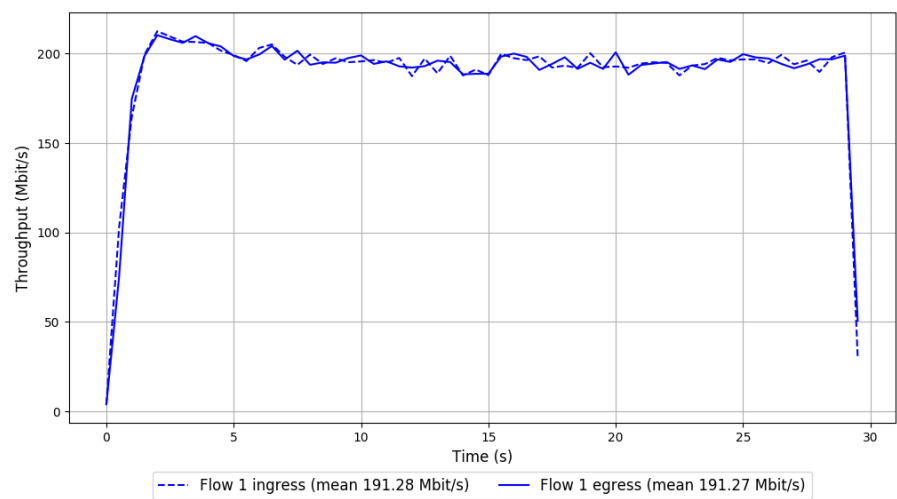
-- Flow 1:

Average throughput: 191.27 Mbit/s

95th percentile per-packet one-way delay: 52.989 ms

Loss rate: 0.01%

Run 6: Report of Indigo-2-256 — Data Link



Run 7: Statistics of Indigo-2-256

Start at: 2018-01-26 01:10:39

End at: 2018-01-26 01:11:09

Below is generated by plot.py at 2018-01-26 03:12:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.81 Mbit/s

95th percentile per-packet one-way delay: 56.061 ms

Loss rate: 0.00%

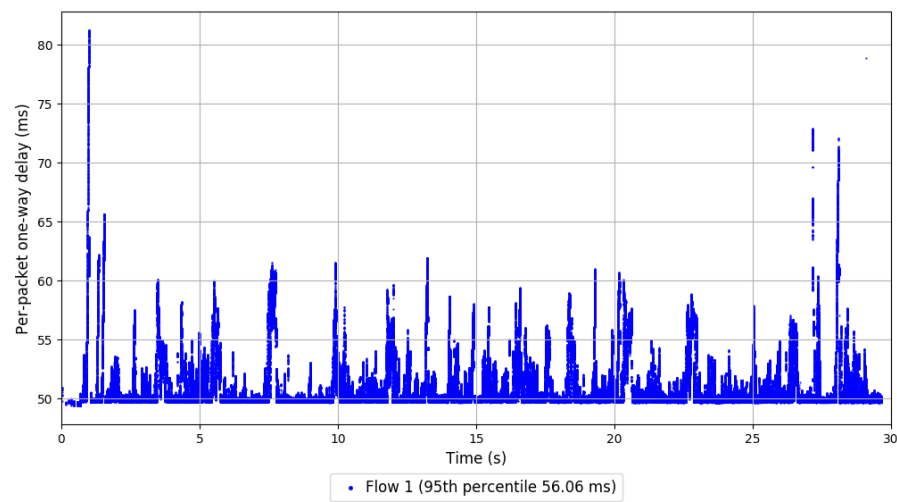
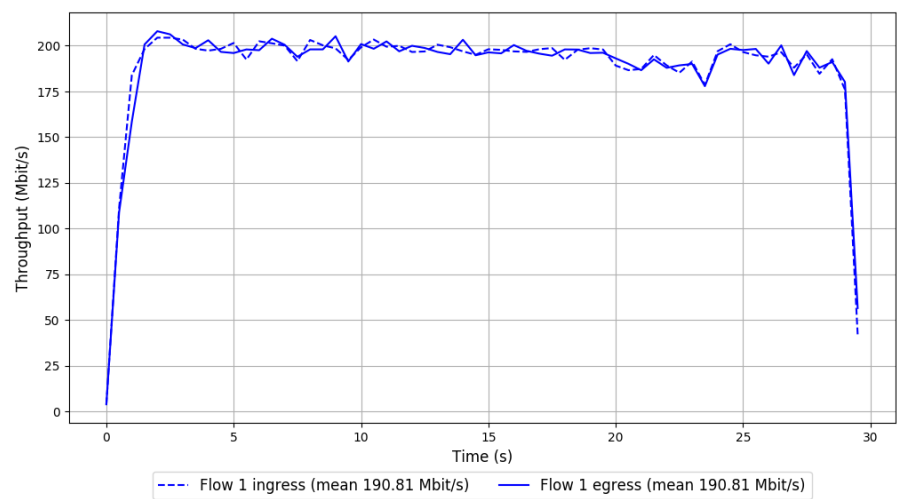
-- Flow 1:

Average throughput: 190.81 Mbit/s

95th percentile per-packet one-way delay: 56.061 ms

Loss rate: 0.00%

Run 7: Report of Indigo-2-256 — Data Link



Run 8: Statistics of Indigo-2-256

Start at: 2018-01-26 01:22:19

End at: 2018-01-26 01:22:49

Below is generated by plot.py at 2018-01-26 03:13:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.67 Mbit/s

95th percentile per-packet one-way delay: 50.023 ms

Loss rate: 0.02%

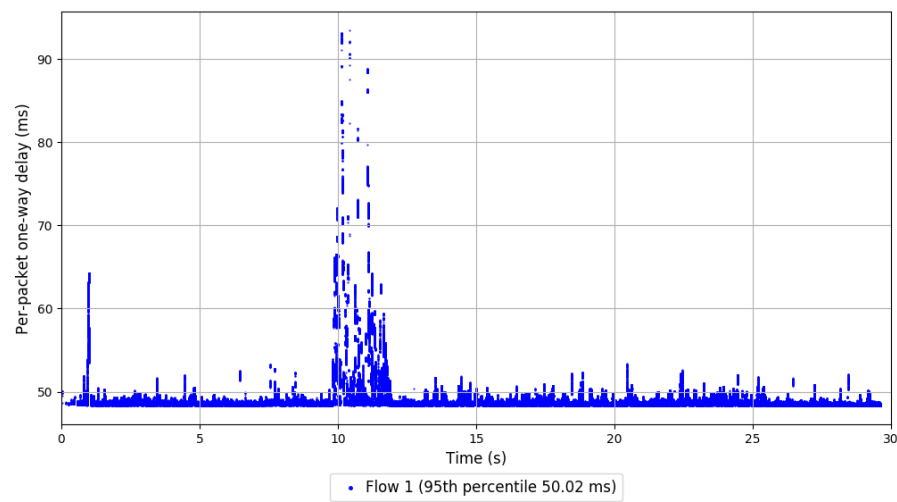
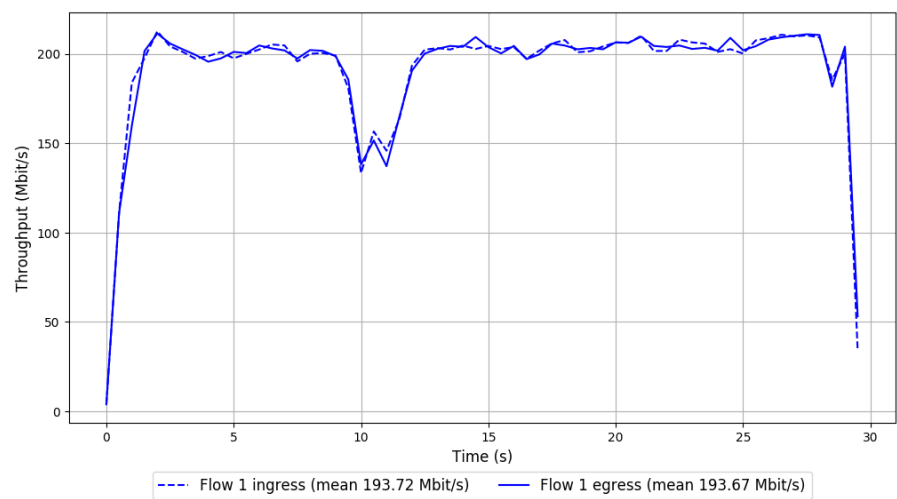
-- Flow 1:

Average throughput: 193.67 Mbit/s

95th percentile per-packet one-way delay: 50.023 ms

Loss rate: 0.02%

Run 8: Report of Indigo-2-256 — Data Link



Run 9: Statistics of Indigo-2-256

Start at: 2018-01-26 01:33:52

End at: 2018-01-26 01:34:22

Below is generated by plot.py at 2018-01-26 03:14:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.10 Mbit/s

95th percentile per-packet one-way delay: 49.182 ms

Loss rate: 0.01%

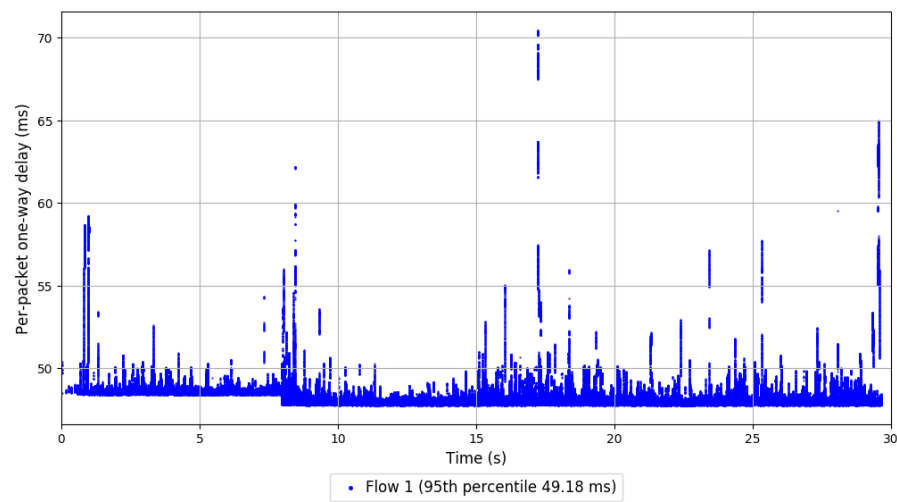
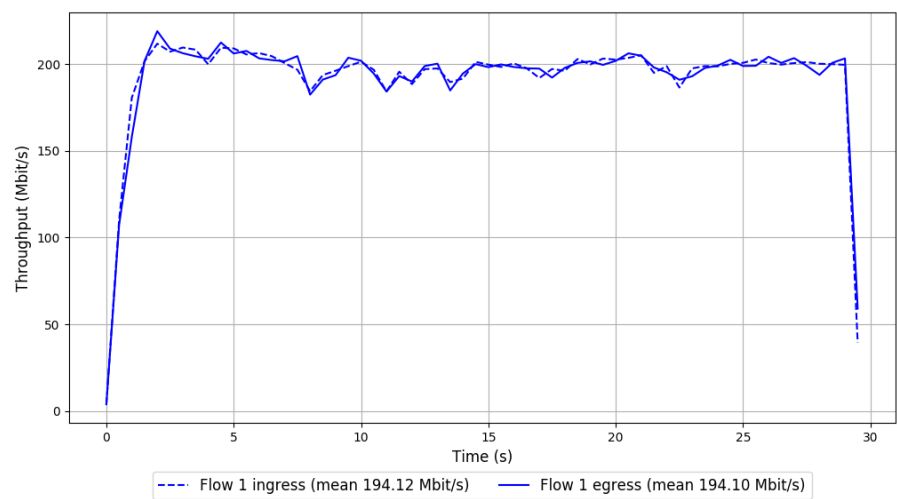
-- Flow 1:

Average throughput: 194.10 Mbit/s

95th percentile per-packet one-way delay: 49.182 ms

Loss rate: 0.01%

Run 9: Report of Indigo-2-256 — Data Link



Run 10: Statistics of Indigo-2-256

Start at: 2018-01-26 01:45:20

End at: 2018-01-26 01:45:50

Below is generated by plot.py at 2018-01-26 03:14:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.75 Mbit/s

95th percentile per-packet one-way delay: 48.139 ms

Loss rate: 0.01%

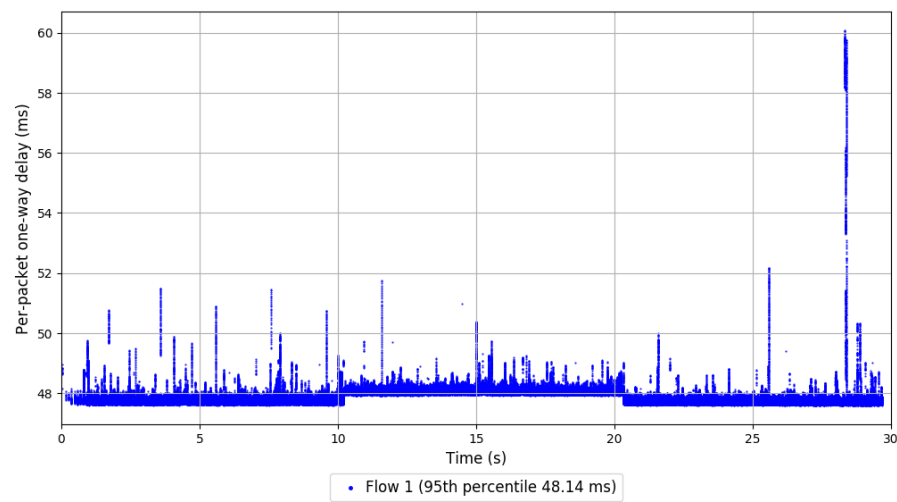
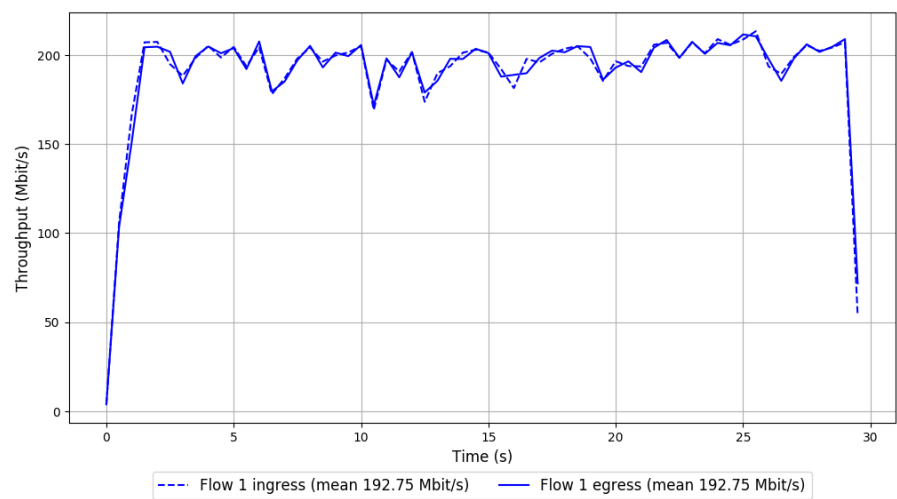
-- Flow 1:

Average throughput: 192.75 Mbit/s

95th percentile per-packet one-way delay: 48.139 ms

Loss rate: 0.01%

Run 10: Report of Indigo-2-256 — Data Link

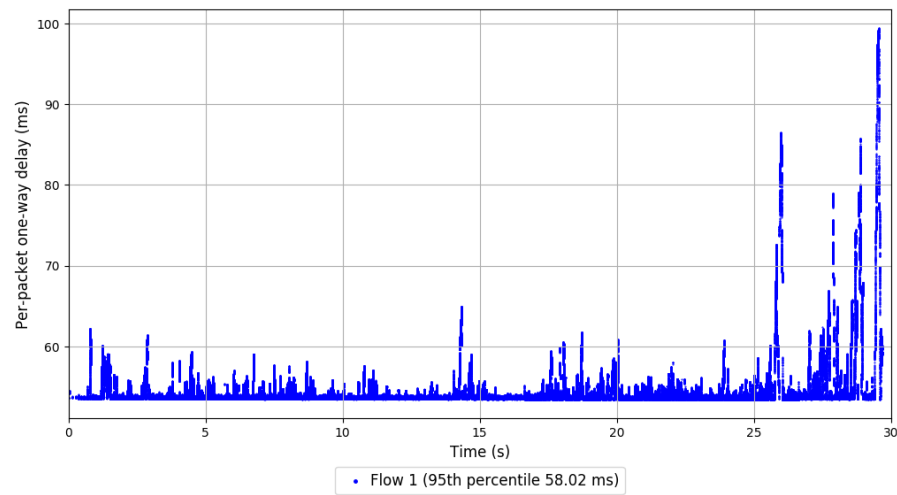
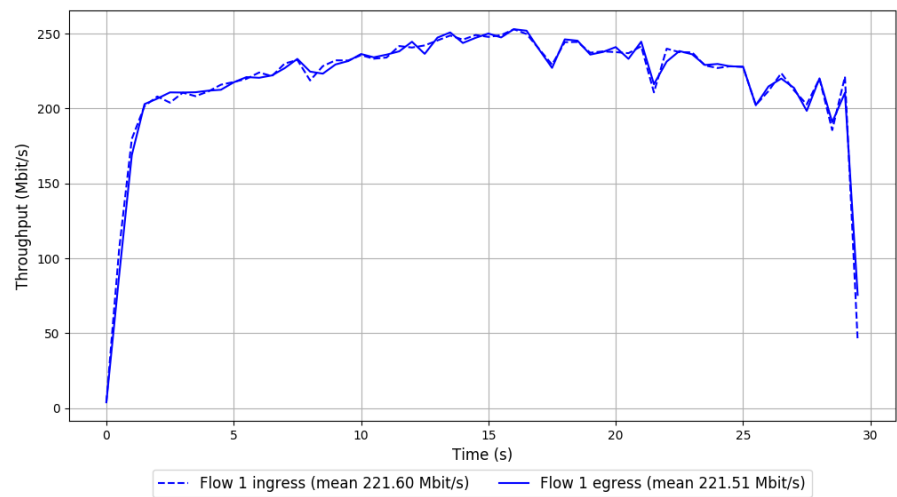


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-01-26 00:07:44
End at: 2018-01-26 00:08:14

# Below is generated by plot.py at 2018-01-26 03:15:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 221.51 Mbit/s
95th percentile per-packet one-way delay: 58.020 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 221.51 Mbit/s
95th percentile per-packet one-way delay: 58.020 ms
Loss rate: 0.04%
```

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

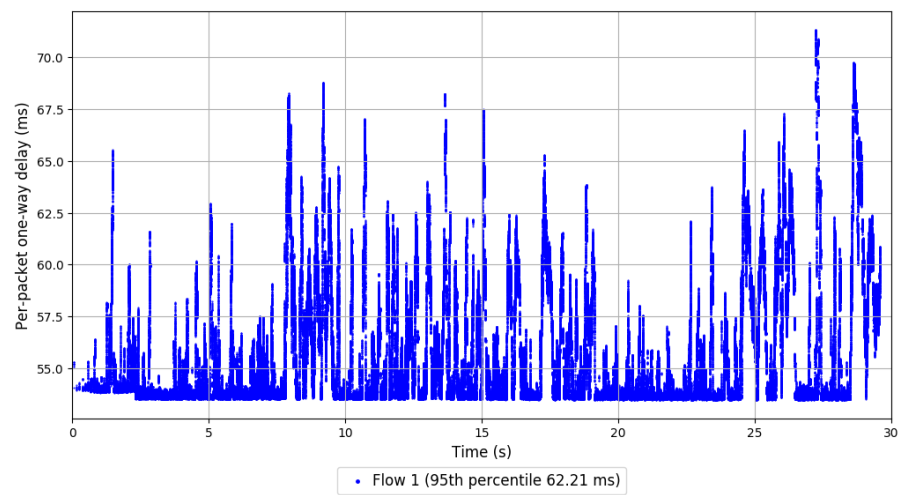
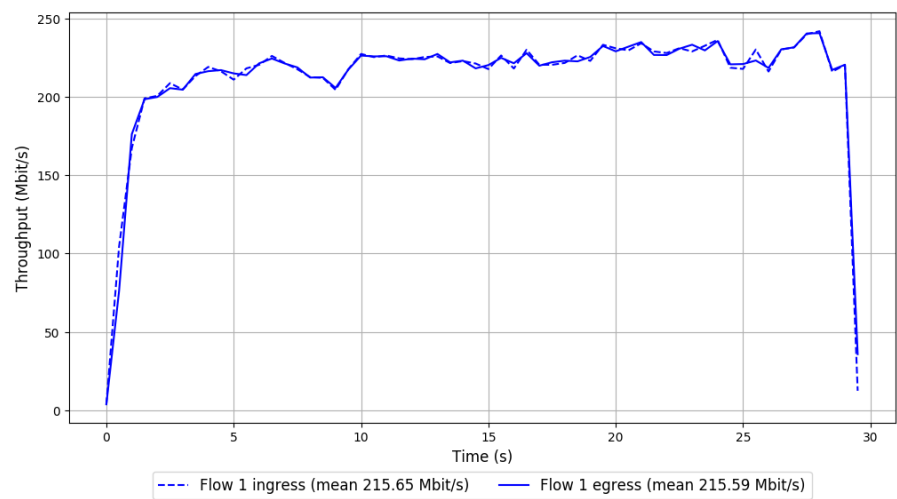


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-01-26 00:19:28
End at: 2018-01-26 00:19:58

# Below is generated by plot.py at 2018-01-26 03:15:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 215.59 Mbit/s
95th percentile per-packet one-way delay: 62.214 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 215.59 Mbit/s
95th percentile per-packet one-way delay: 62.214 ms
Loss rate: 0.02%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-01-26 00:31:08

End at: 2018-01-26 00:31:38

Below is generated by plot.py at 2018-01-26 03:16:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.40 Mbit/s

95th percentile per-packet one-way delay: 53.652 ms

Loss rate: 0.01%

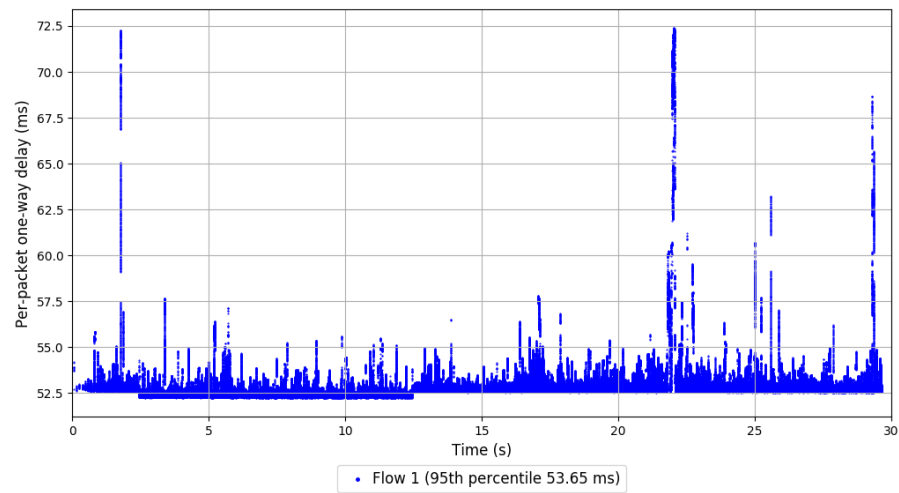
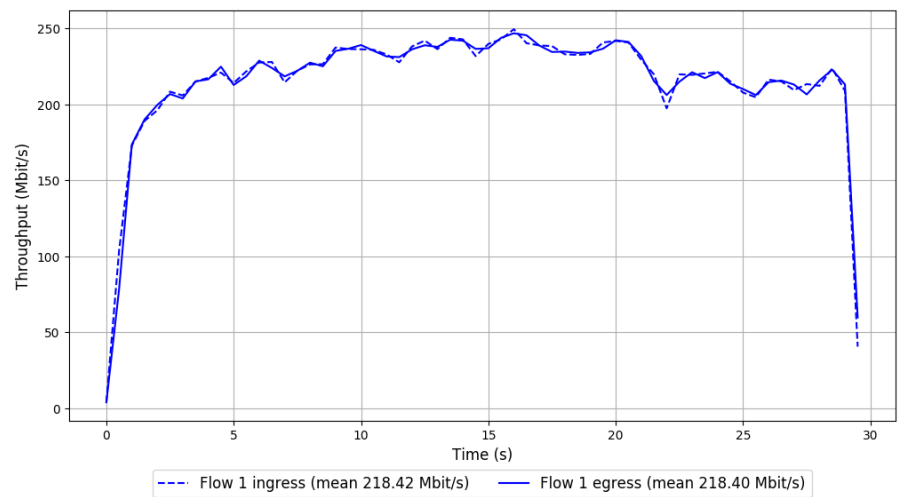
-- Flow 1:

Average throughput: 218.40 Mbit/s

95th percentile per-packet one-way delay: 53.652 ms

Loss rate: 0.01%

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

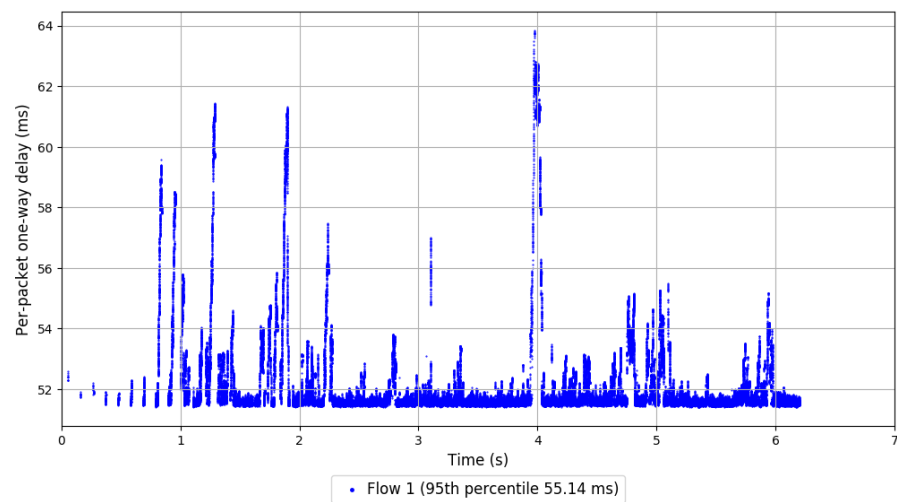
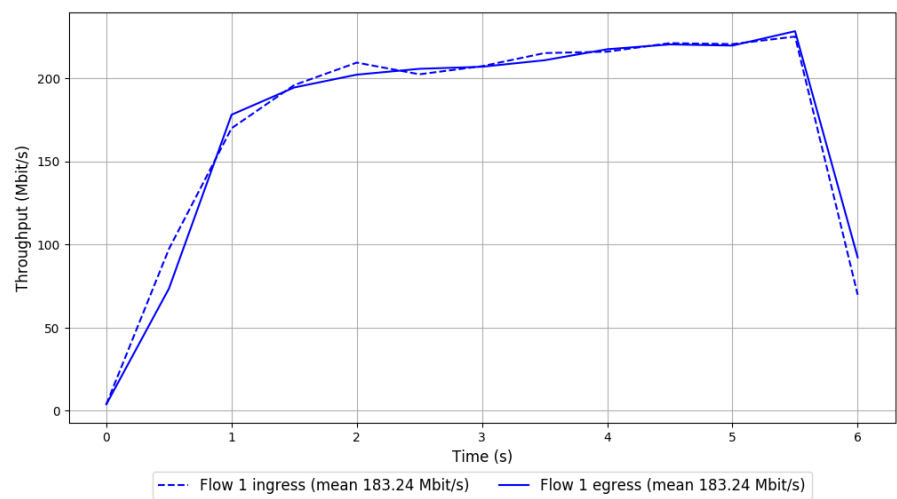


Run 4: Statistics of Indigo-1-32

Start at: 2018-01-26 00:42:49

End at: 2018-01-26 00:43:19

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

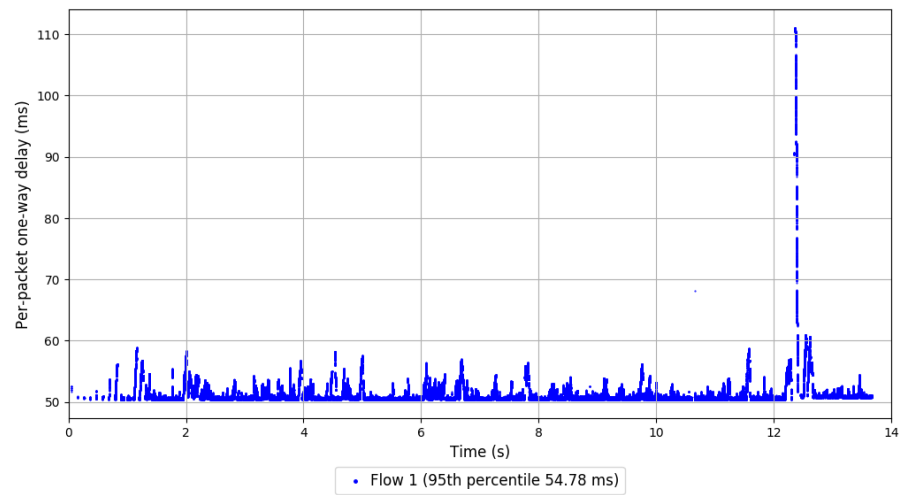
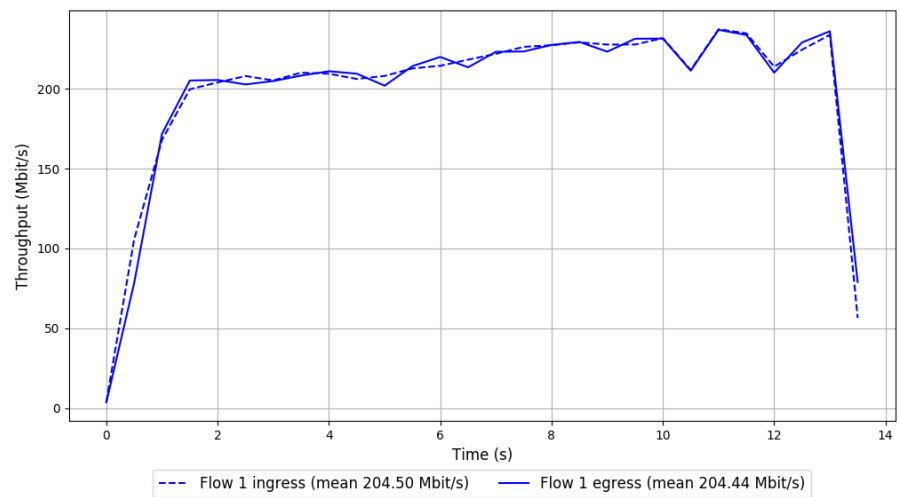


Run 5: Statistics of Indigo-1-32

Start at: 2018-01-26 00:54:02

End at: 2018-01-26 00:54:32

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-01-26 01:05:18

End at: 2018-01-26 01:05:48

Below is generated by plot.py at 2018-01-26 03:16:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.36 Mbit/s

95th percentile per-packet one-way delay: 51.321 ms

Loss rate: 0.01%

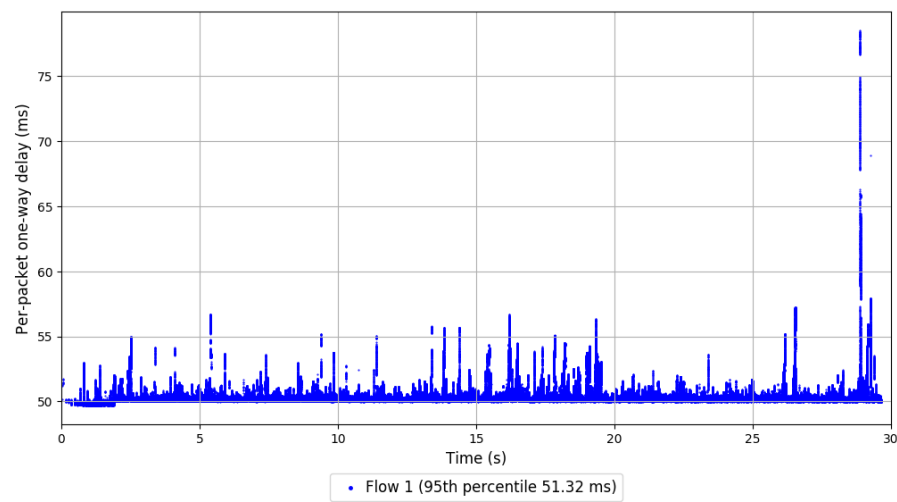
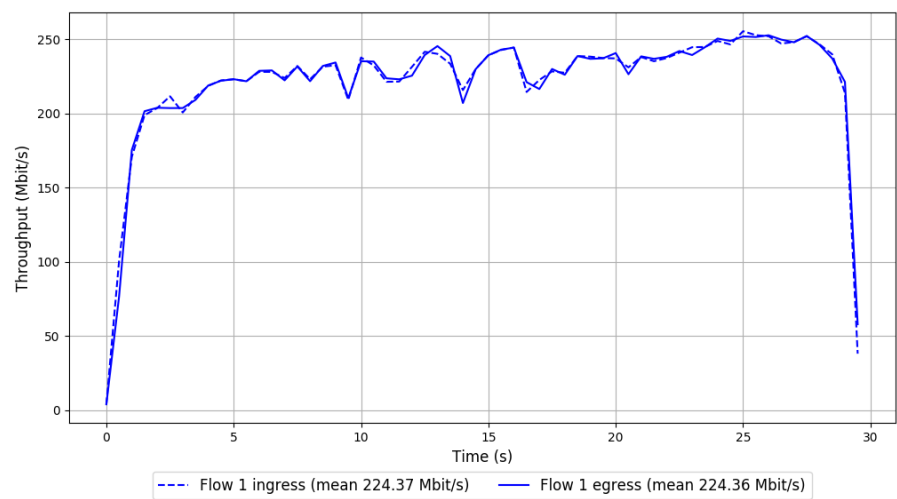
-- Flow 1:

Average throughput: 224.36 Mbit/s

95th percentile per-packet one-way delay: 51.321 ms

Loss rate: 0.01%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-01-26 01:17:01

End at: 2018-01-26 01:17:31

Below is generated by plot.py at 2018-01-26 03:17:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.13 Mbit/s

95th percentile per-packet one-way delay: 52.122 ms

Loss rate: 0.01%

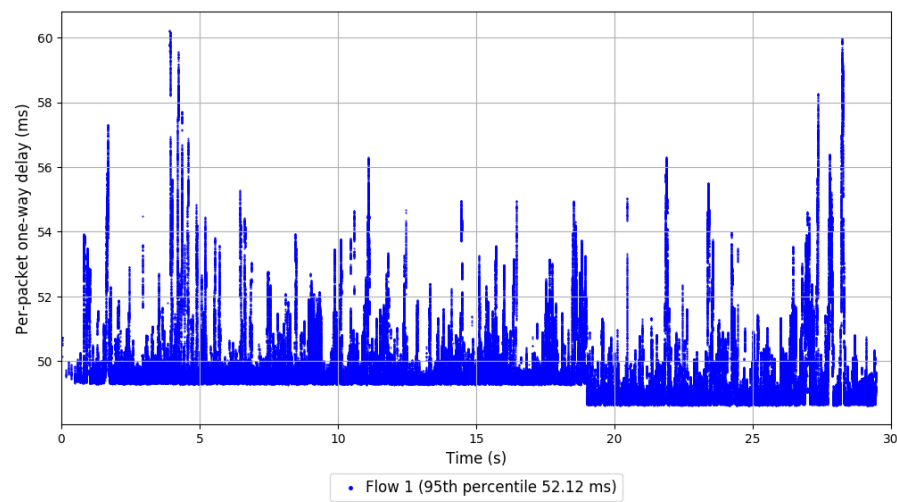
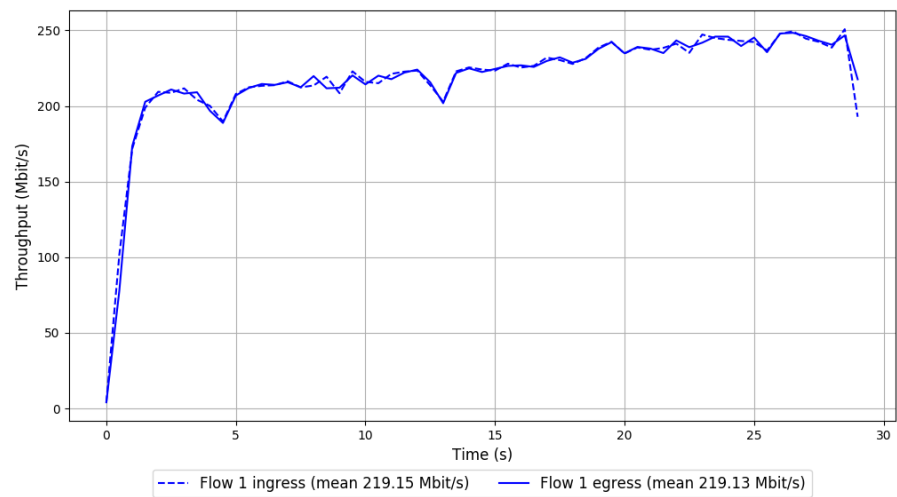
-- Flow 1:

Average throughput: 219.13 Mbit/s

95th percentile per-packet one-way delay: 52.122 ms

Loss rate: 0.01%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-01-26 01:28:42

End at: 2018-01-26 01:29:12

Below is generated by plot.py at 2018-01-26 03:17:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.29 Mbit/s

95th percentile per-packet one-way delay: 50.760 ms

Loss rate: 0.21%

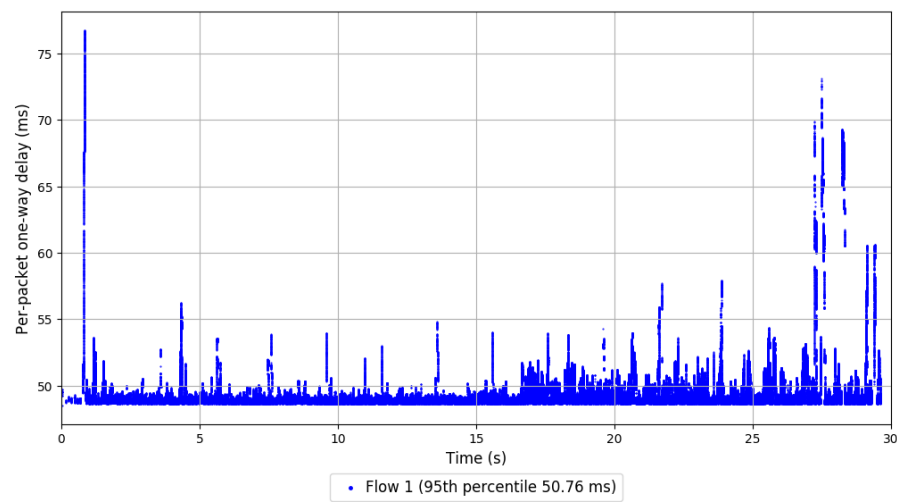
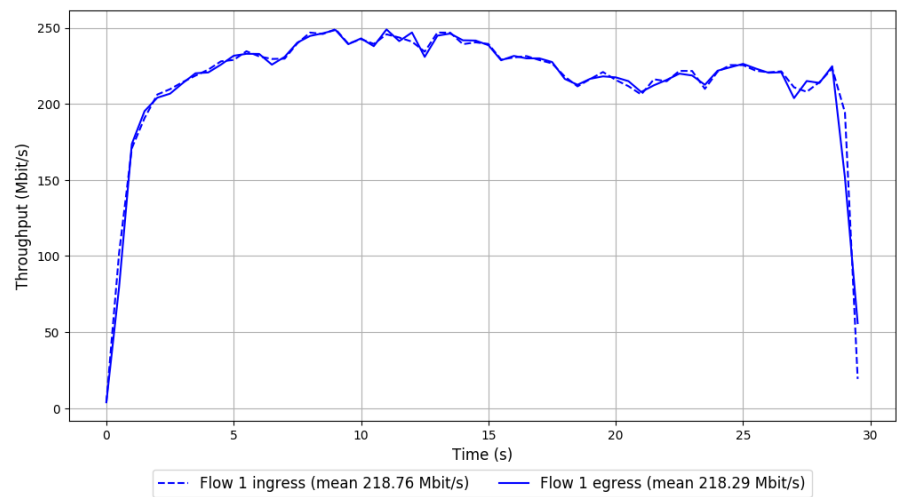
-- Flow 1:

Average throughput: 218.29 Mbit/s

95th percentile per-packet one-way delay: 50.760 ms

Loss rate: 0.21%

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

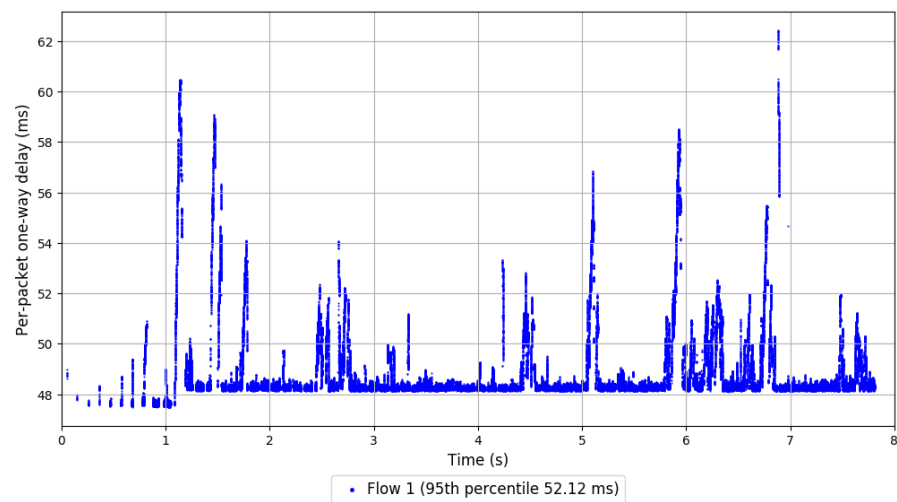
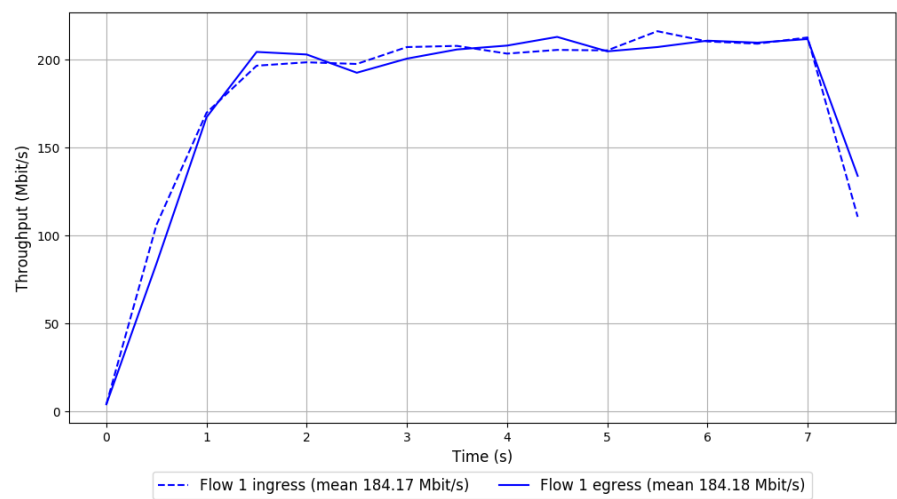


Run 9: Statistics of Indigo-1-32

Start at: 2018-01-26 01:40:17

End at: 2018-01-26 01:40:47

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-01-26 01:51:44

End at: 2018-01-26 01:52:14

Below is generated by plot.py at 2018-01-26 03:17:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.38 Mbit/s

95th percentile per-packet one-way delay: 53.267 ms

Loss rate: 1.50%

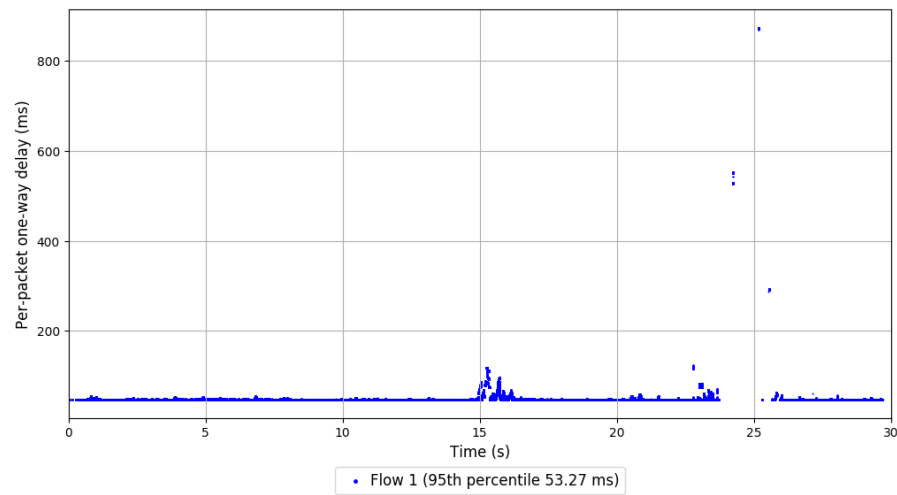
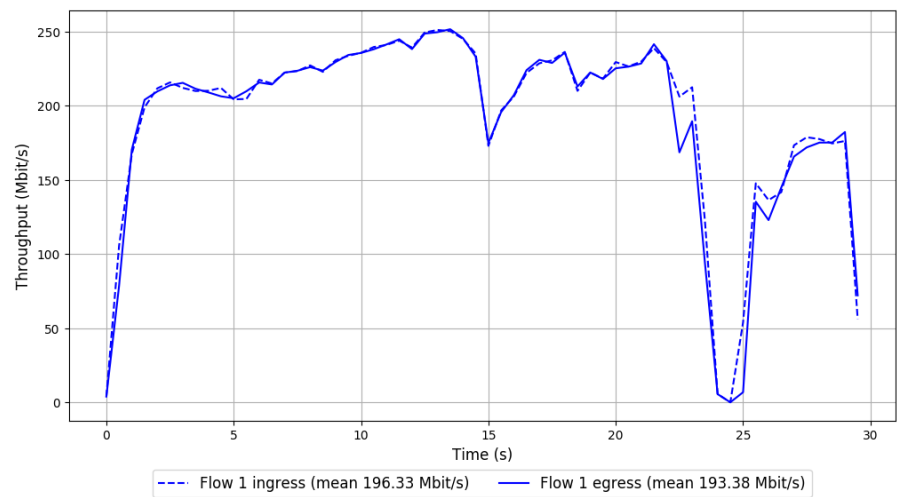
-- Flow 1:

Average throughput: 193.38 Mbit/s

95th percentile per-packet one-way delay: 53.267 ms

Loss rate: 1.50%

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

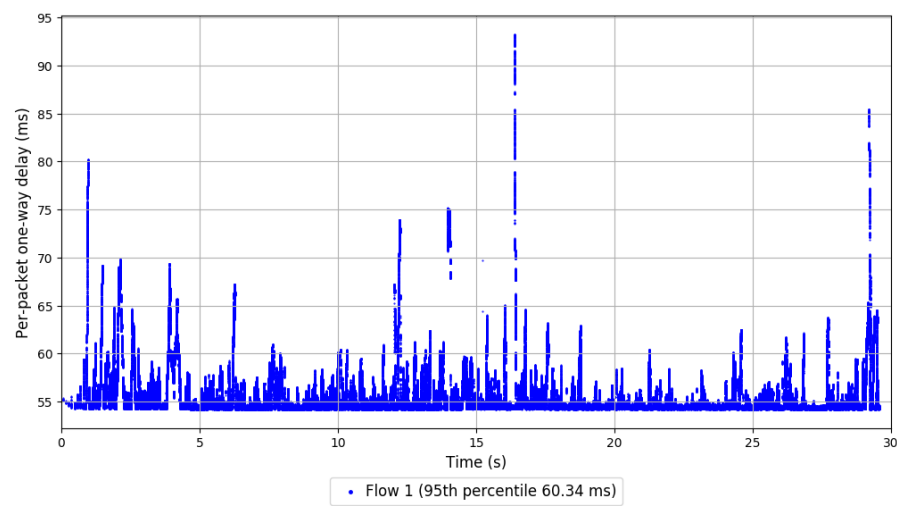
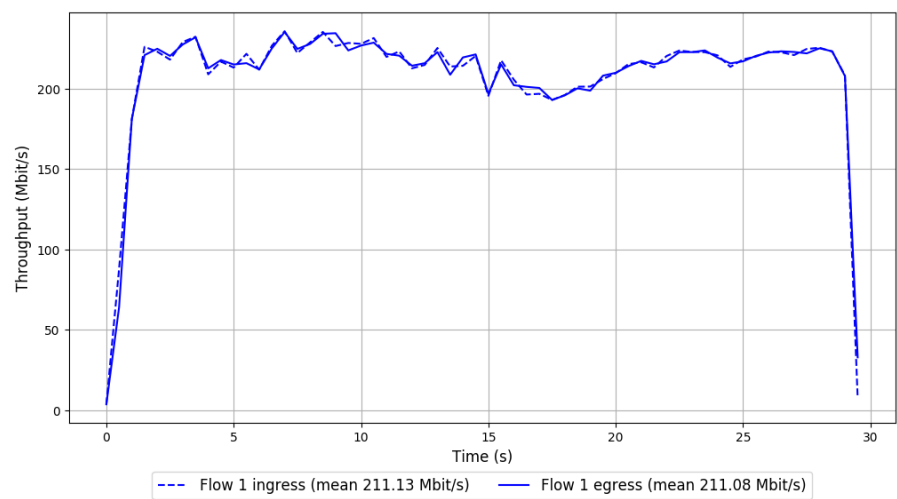


```
Run 1: Statistics of Indigo-1-128

Start at: 2018-01-25 23:58:55
End at: 2018-01-25 23:59:26

# Below is generated by plot.py at 2018-01-26 03:18:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 211.08 Mbit/s
95th percentile per-packet one-way delay: 60.338 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 211.08 Mbit/s
95th percentile per-packet one-way delay: 60.338 ms
Loss rate: 0.03%
```


Run 1: Report of Indigo-1-128 — Data Link

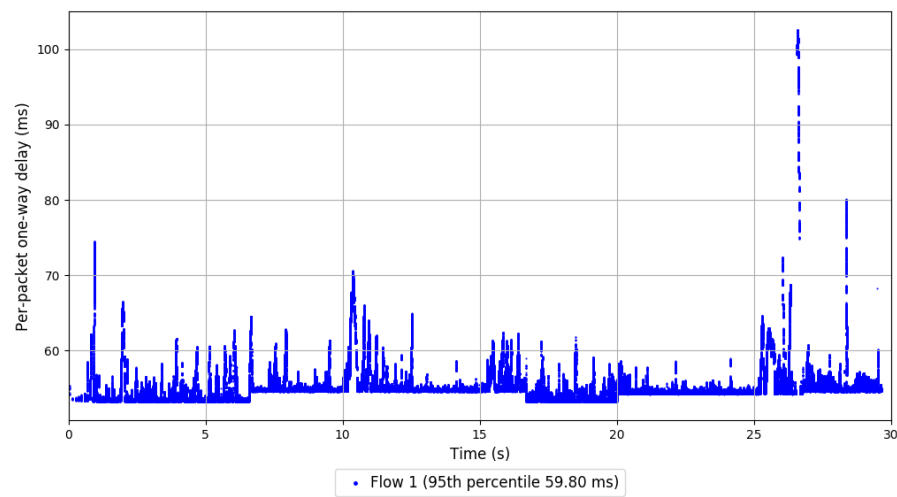
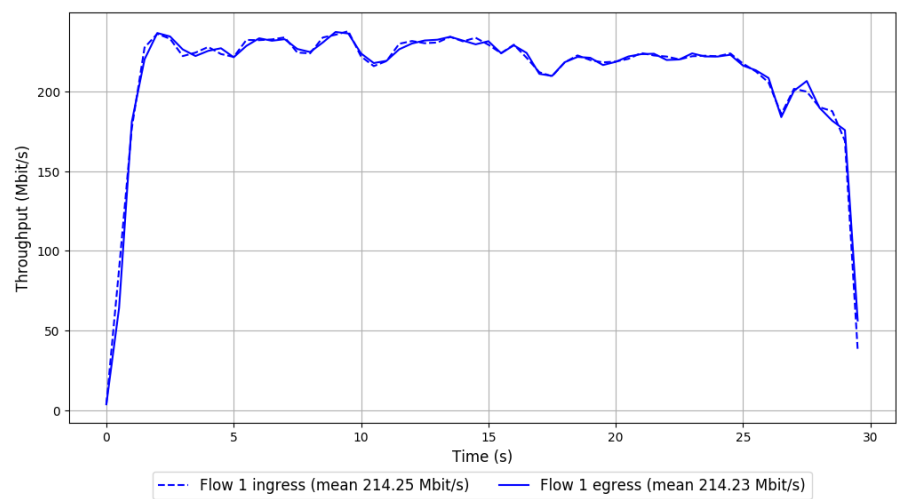


```
Run 2: Statistics of Indigo-1-128

Start at: 2018-01-26 00:10:43
End at: 2018-01-26 00:11:14

# Below is generated by plot.py at 2018-01-26 03:18:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 214.23 Mbit/s
95th percentile per-packet one-way delay: 59.796 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 214.23 Mbit/s
95th percentile per-packet one-way delay: 59.796 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo-1-128 — Data Link



Run 3: Statistics of Indigo-1-128

Start at: 2018-01-26 00:22:24

End at: 2018-01-26 00:22:54

Below is generated by plot.py at 2018-01-26 03:19:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.68 Mbit/s

95th percentile per-packet one-way delay: 59.812 ms

Loss rate: 0.01%

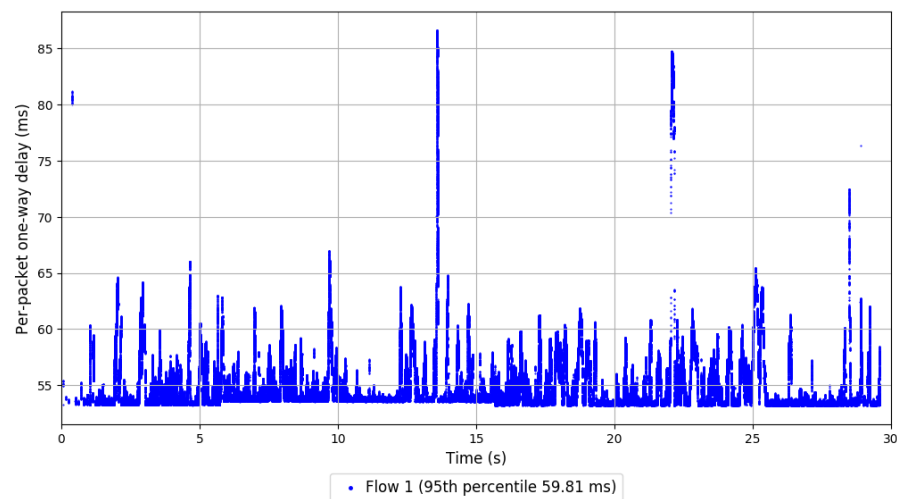
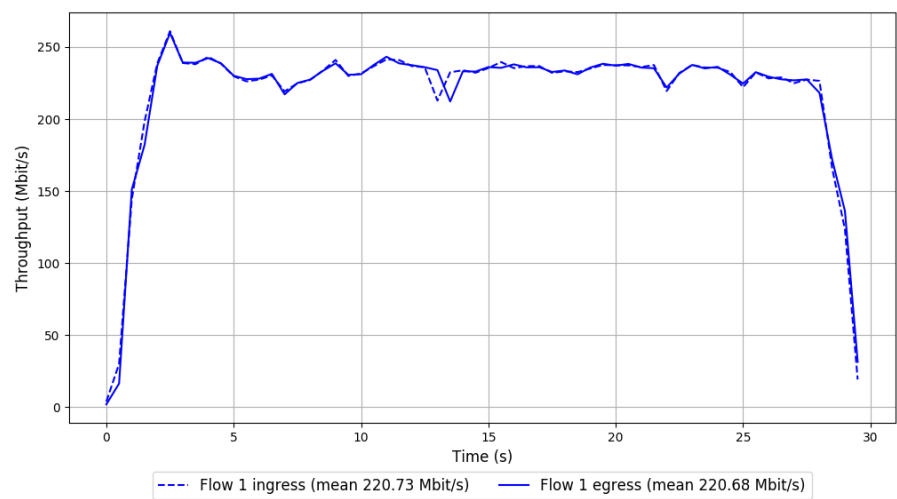
-- Flow 1:

Average throughput: 220.68 Mbit/s

95th percentile per-packet one-way delay: 59.812 ms

Loss rate: 0.01%

Run 3: Report of Indigo-1-128 — Data Link



Run 4: Statistics of Indigo-1-128

Start at: 2018-01-26 00:34:07

End at: 2018-01-26 00:34:37

Below is generated by plot.py at 2018-01-26 03:19:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.50 Mbit/s

95th percentile per-packet one-way delay: 54.099 ms

Loss rate: 0.01%

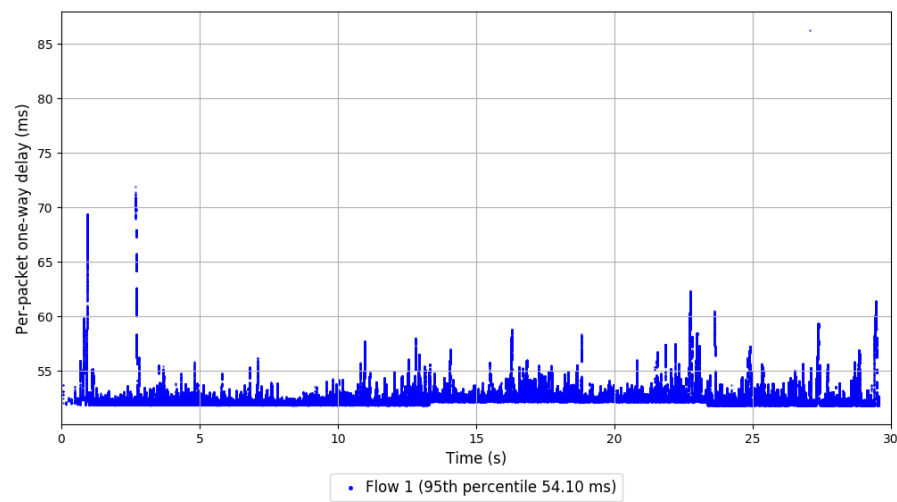
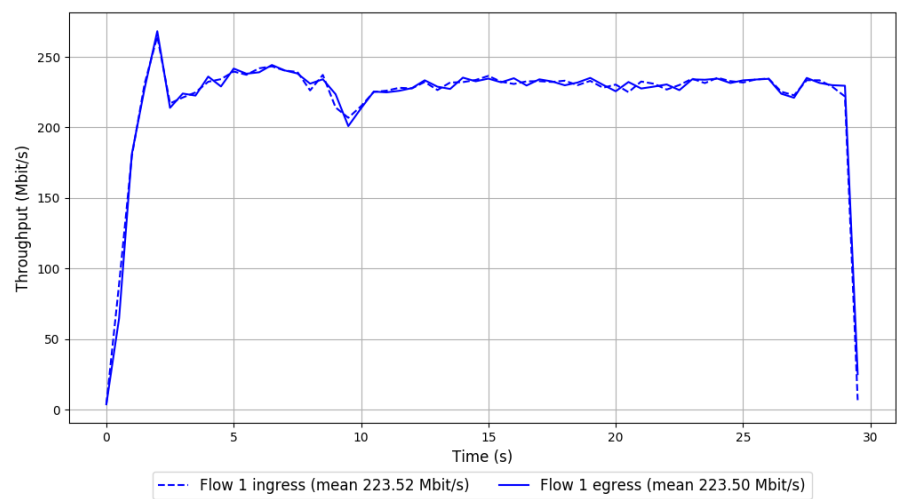
-- Flow 1:

Average throughput: 223.50 Mbit/s

95th percentile per-packet one-way delay: 54.099 ms

Loss rate: 0.01%

Run 4: Report of Indigo-1-128 — Data Link



Run 5: Statistics of Indigo-1-128

Start at: 2018-01-26 00:45:28

End at: 2018-01-26 00:45:58

Below is generated by plot.py at 2018-01-26 03:20:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.88 Mbit/s

95th percentile per-packet one-way delay: 53.492 ms

Loss rate: 0.00%

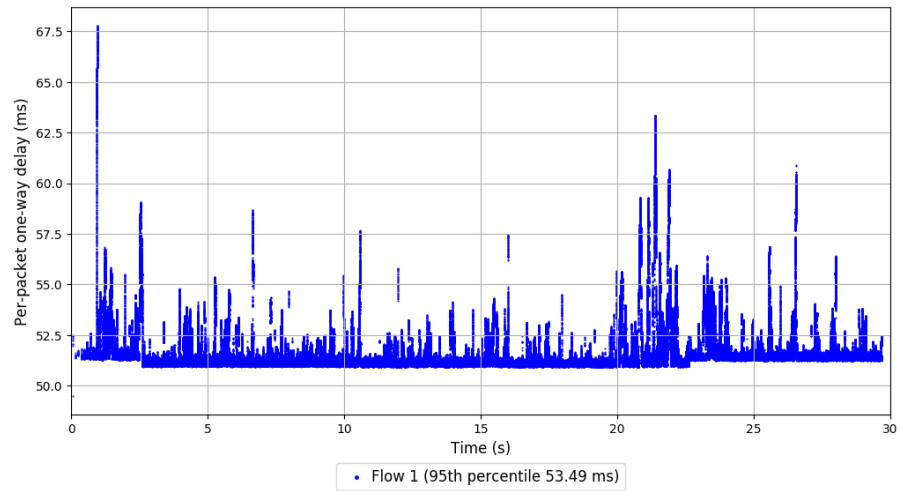
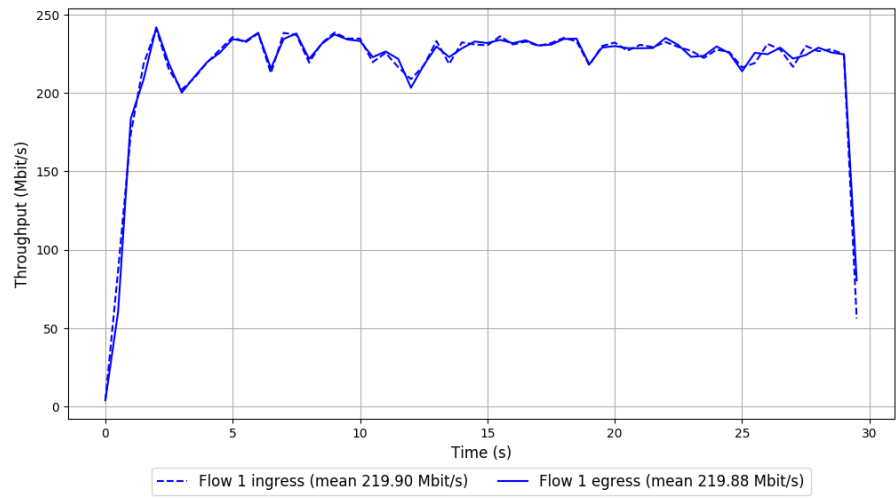
-- Flow 1:

Average throughput: 219.88 Mbit/s

95th percentile per-packet one-way delay: 53.492 ms

Loss rate: 0.00%

Run 5: Report of Indigo-1-128 — Data Link



Run 6: Statistics of Indigo-1-128

Start at: 2018-01-26 00:56:39

End at: 2018-01-26 00:57:09

Below is generated by plot.py at 2018-01-26 03:20:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.80 Mbit/s

95th percentile per-packet one-way delay: 51.098 ms

Loss rate: 0.00%

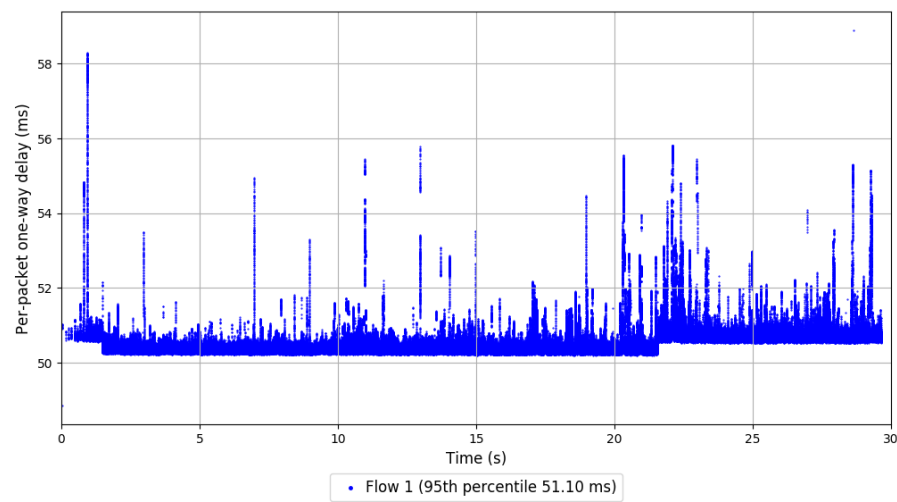
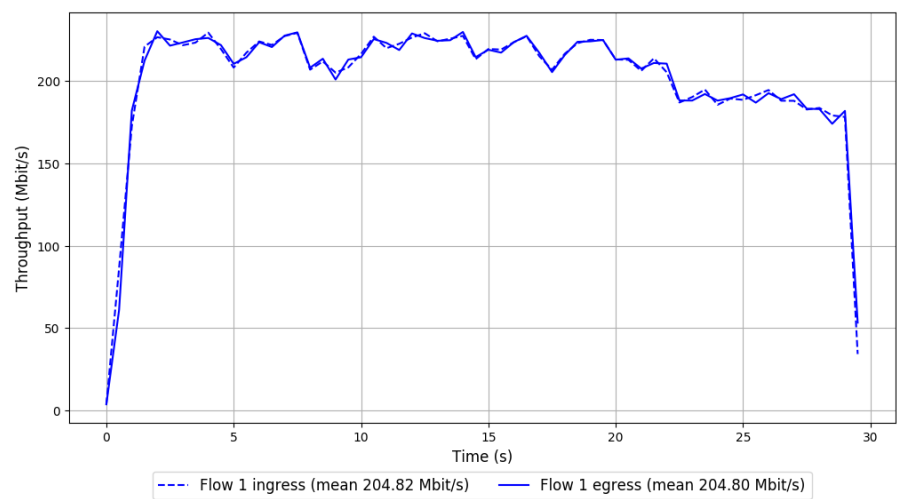
-- Flow 1:

Average throughput: 204.80 Mbit/s

95th percentile per-packet one-way delay: 51.098 ms

Loss rate: 0.00%

Run 6: Report of Indigo-1-128 — Data Link



Run 7: Statistics of Indigo-1-128

Start at: 2018-01-26 01:08:17

End at: 2018-01-26 01:08:47

Below is generated by plot.py at 2018-01-26 03:20:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.06 Mbit/s

95th percentile per-packet one-way delay: 52.422 ms

Loss rate: 0.00%

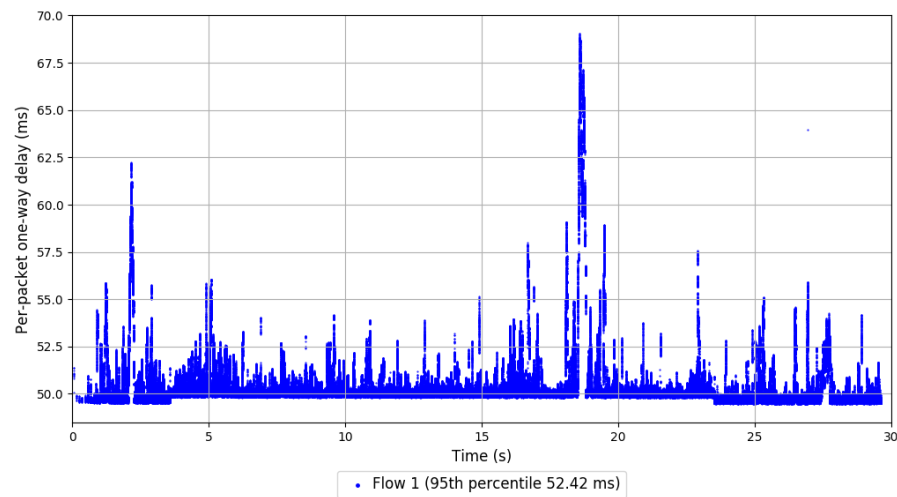
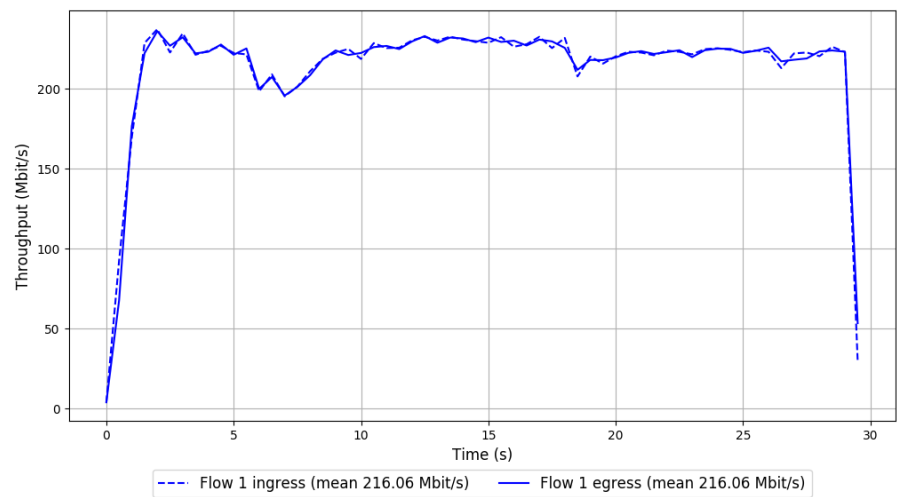
-- Flow 1:

Average throughput: 216.06 Mbit/s

95th percentile per-packet one-way delay: 52.422 ms

Loss rate: 0.00%

Run 7: Report of Indigo-1-128 — Data Link



Run 8: Statistics of Indigo-1-128

Start at: 2018-01-26 01:19:56

End at: 2018-01-26 01:20:26

Below is generated by plot.py at 2018-01-26 03:20:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.05 Mbit/s

95th percentile per-packet one-way delay: 49.835 ms

Loss rate: 0.01%

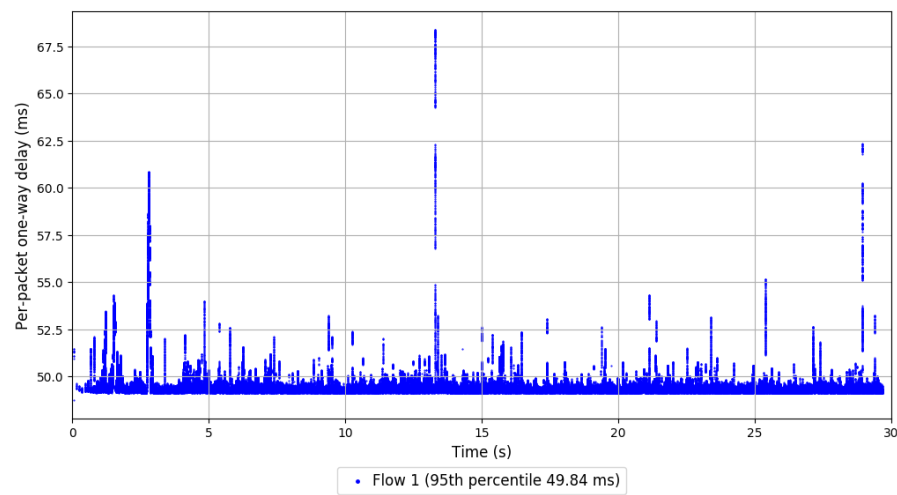
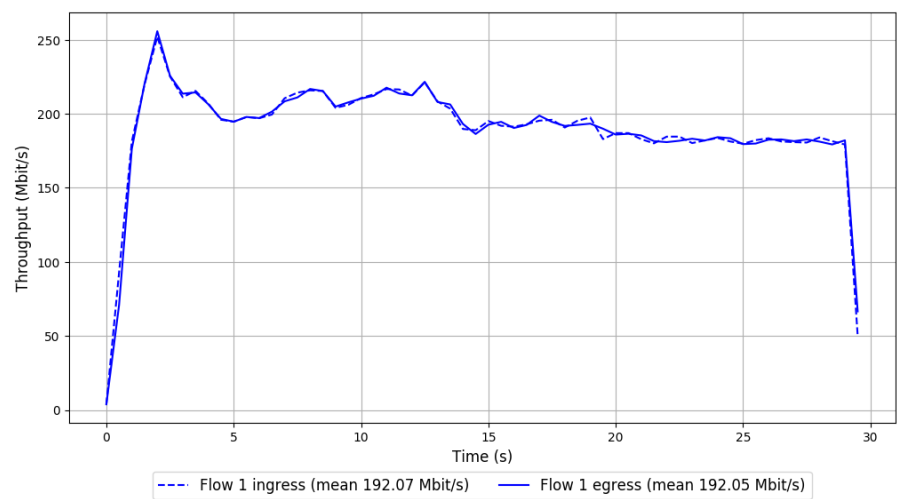
-- Flow 1:

Average throughput: 192.05 Mbit/s

95th percentile per-packet one-way delay: 49.835 ms

Loss rate: 0.01%

Run 8: Report of Indigo-1-128 — Data Link



Run 9: Statistics of Indigo-1-128

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

End at: 2018-01-26 01:32:01

Below is generated by plot.py at 2018-01-26 03:20:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.10 Mbit/s

95th percentile per-packet one-way delay: 48.881 ms

Loss rate: 0.00%

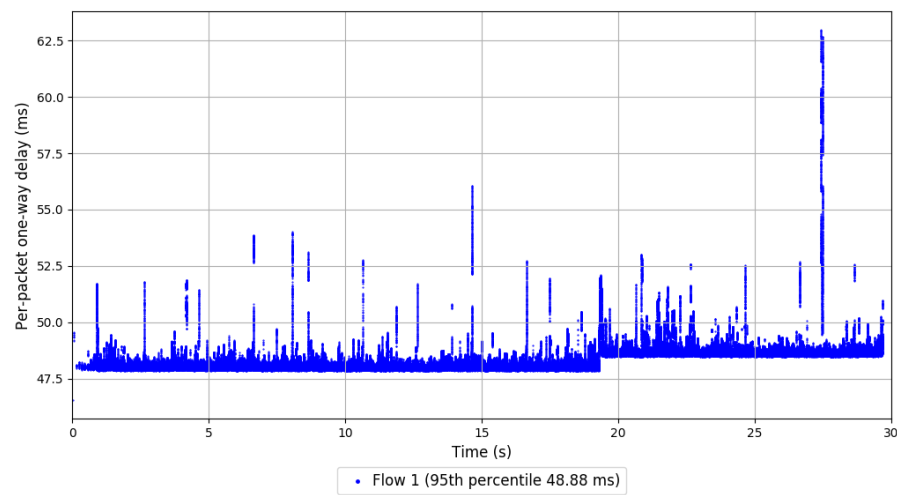
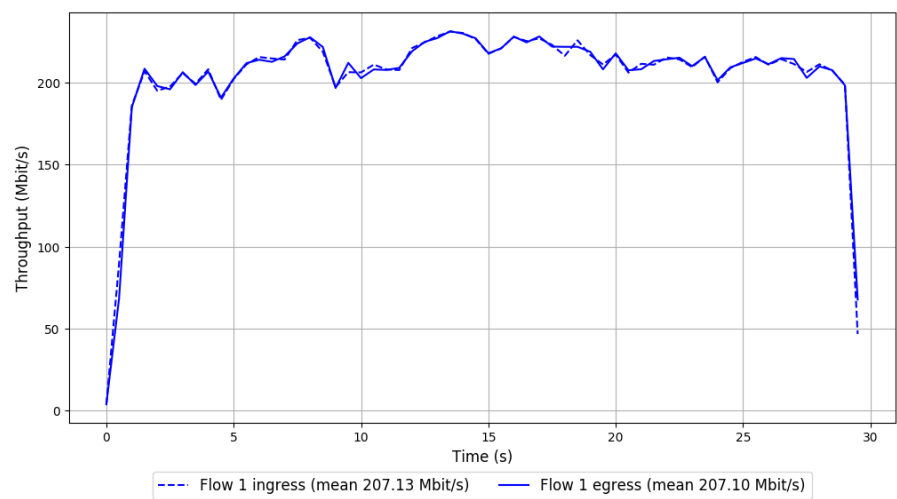
-- Flow 1:

Average throughput: 207.10 Mbit/s

95th percentile per-packet one-way delay: 48.881 ms

Loss rate: 0.00%

Run 9: Report of Indigo-1-128 — Data Link



Run 10: Statistics of Indigo-1-128

Start at: 2018-01-26 01:42:52

End at: 2018-01-26 01:43:22

Below is generated by plot.py at 2018-01-26 03:20:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.29 Mbit/s

95th percentile per-packet one-way delay: 48.266 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 220.29 Mbit/s

95th percentile per-packet one-way delay: 48.266 ms

Loss rate: 0.00%

Run 10: Report of Indigo-1-128 — Data Link

