

Pantheon Report

Generated at 2018-02-02 17:49:00 (UTC).

Data path: AWS Korea Ethernet (*local*) → China Ethernet (*remote*).

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

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

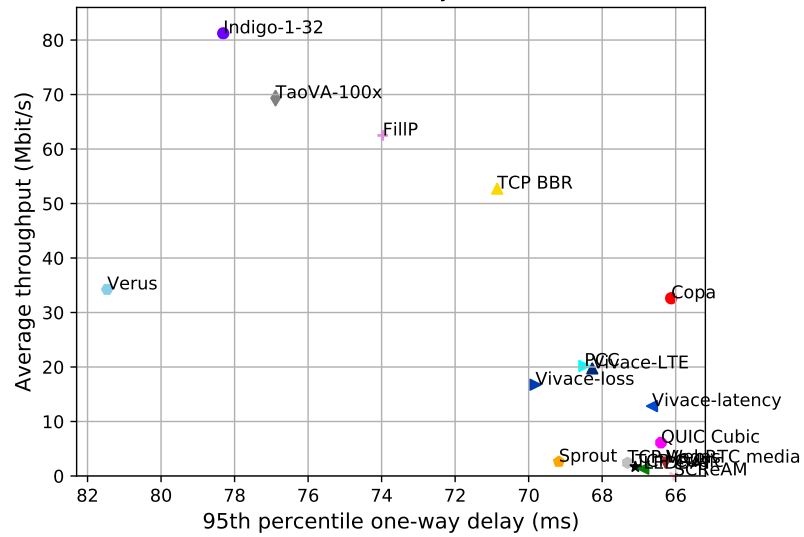
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

NTP offsets were measured against `ntp.nict.jp` and have been applied to correct the timestamps in logs.

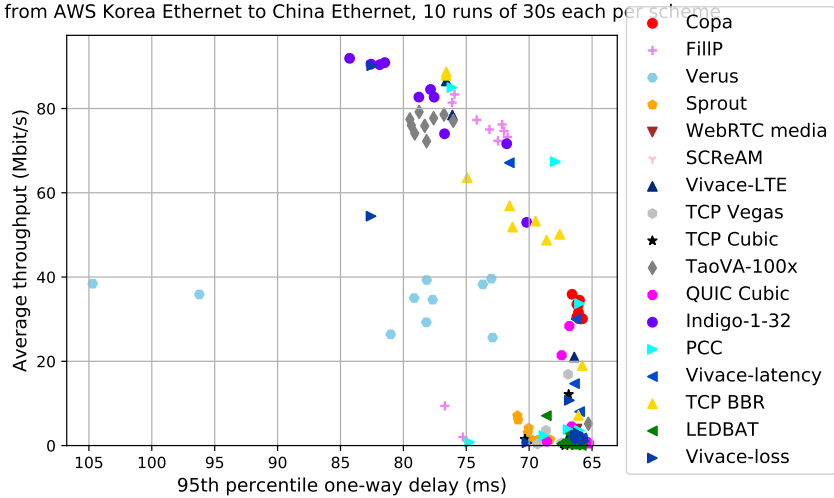
Git summary:

```
branch: master @ 70217998b3c9a7166a95460a70c0854d1326e100
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ fb9c9ab842e5614ad52911a76fb9bd1c1b0dca86
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quir @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from AWS Korea Ethernet to China Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from AWS Korea Ethernet to China 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	52.73	70.85	9.93
TCP Cubic	10	1.69	67.10	13.61
LEDBAT	10	1.34	66.88	12.10
PCC	10	20.19	68.48	12.46
QUIC Cubic	10	6.11	66.40	7.91
SCReAM	10	0.11	66.05	5.62
WebRTC media	10	2.45	66.28	8.10
Sprout	10	2.63	69.18	15.77
TaoVA-100x	10	69.34	76.89	10.66
TCP Vegas	10	2.41	67.31	9.40
Verus	10	34.24	81.47	84.26
Copa	9	32.62	66.12	7.10
FillP	10	62.49	73.97	17.52
Indigo-1-32	10	81.23	78.31	17.91
Vivace-latency	10	12.83	66.64	9.72
Vivace-loss	10	16.75	69.82	11.02
Vivace-LTE	10	19.74	68.27	8.44

Run 1: Statistics of TCP BBR

Start at: 2018-02-02 13:06:49

End at: 2018-02-02 13:07:19

Local clock offset: -0.732 ms

Remote clock offset: 1.089 ms

Below is generated by plot.py at 2018-02-02 17:37:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.86 Mbit/s

95th percentile per-packet one-way delay: 71.326 ms

Loss rate: 9.84%

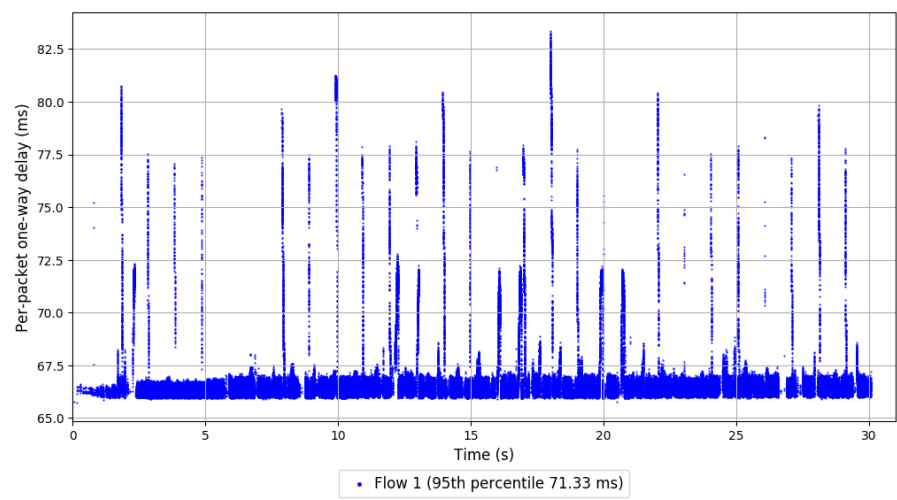
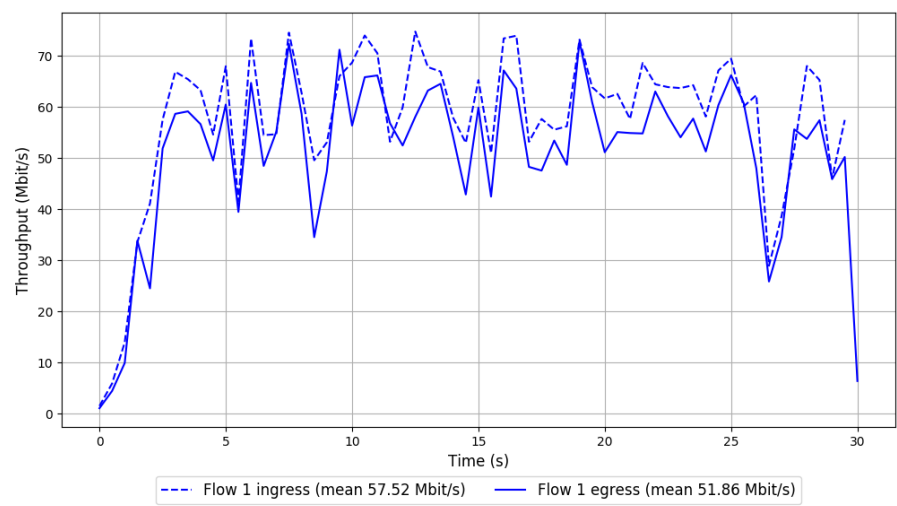
-- Flow 1:

Average throughput: 51.86 Mbit/s

95th percentile per-packet one-way delay: 71.326 ms

Loss rate: 9.84%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-02 13:30:47

End at: 2018-02-02 13:31:17

Local clock offset: -0.773 ms

Remote clock offset: 1.785 ms

Below is generated by plot.py at 2018-02-02 17:37:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.75 Mbit/s

95th percentile per-packet one-way delay: 68.617 ms

Loss rate: 10.24%

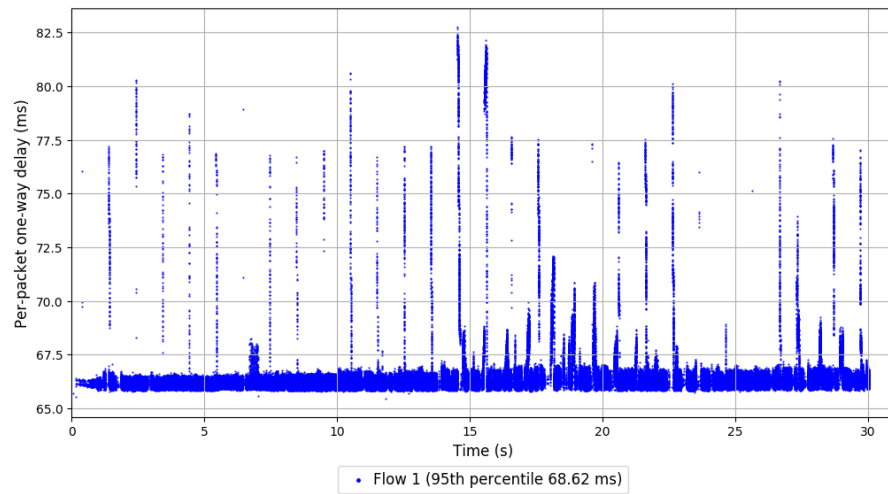
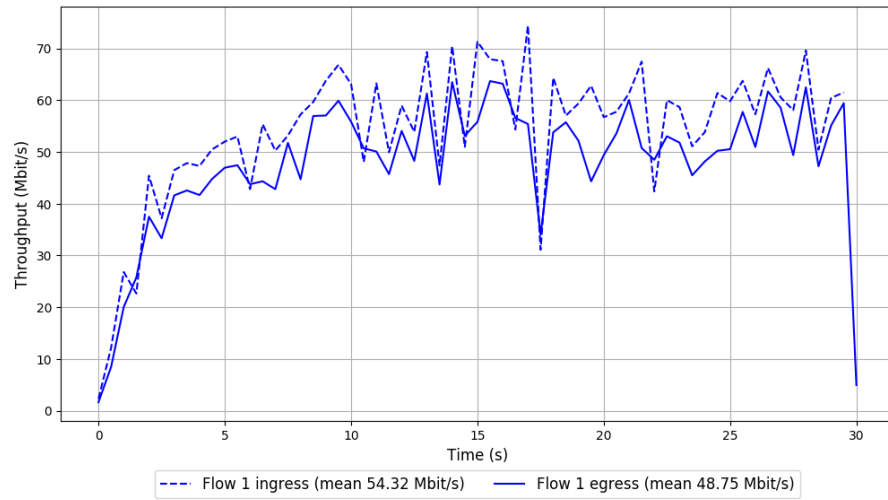
-- Flow 1:

Average throughput: 48.75 Mbit/s

95th percentile per-packet one-way delay: 68.617 ms

Loss rate: 10.24%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-02 13:54:42

End at: 2018-02-02 13:55:12

Local clock offset: -0.694 ms

Remote clock offset: 2.504 ms

Below is generated by plot.py at 2018-02-02 17:37:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.16 Mbit/s

95th percentile per-packet one-way delay: 67.571 ms

Loss rate: 11.64%

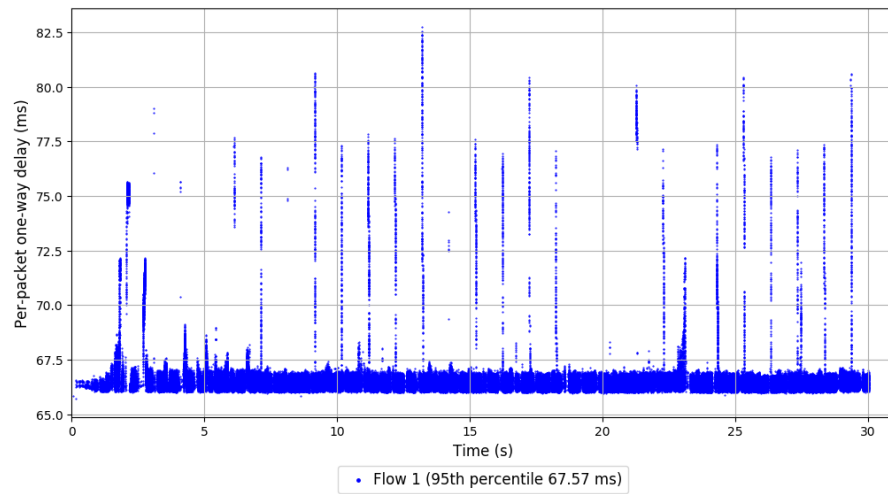
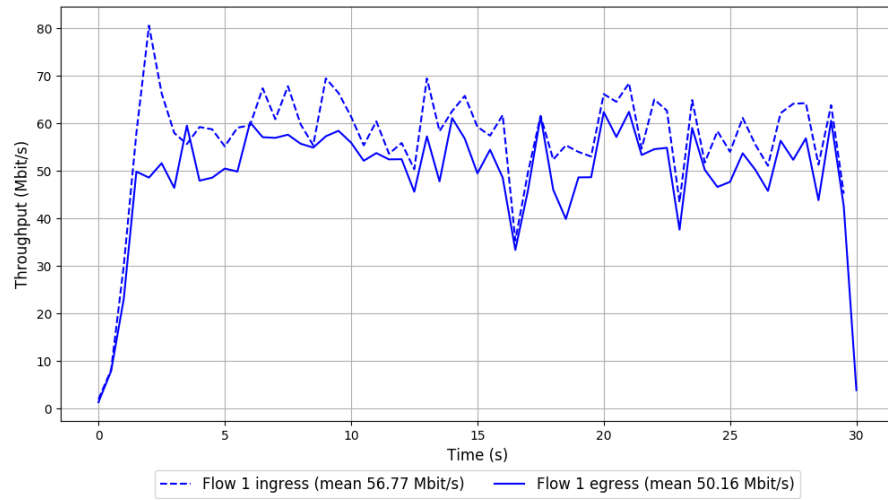
-- Flow 1:

Average throughput: 50.16 Mbit/s

95th percentile per-packet one-way delay: 67.571 ms

Loss rate: 11.64%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-02 14:18:32

End at: 2018-02-02 14:19:02

Local clock offset: -0.297 ms

Remote clock offset: 3.135 ms

Below is generated by plot.py at 2018-02-02 17:37:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.27 Mbit/s

95th percentile per-packet one-way delay: 69.493 ms

Loss rate: 9.47%

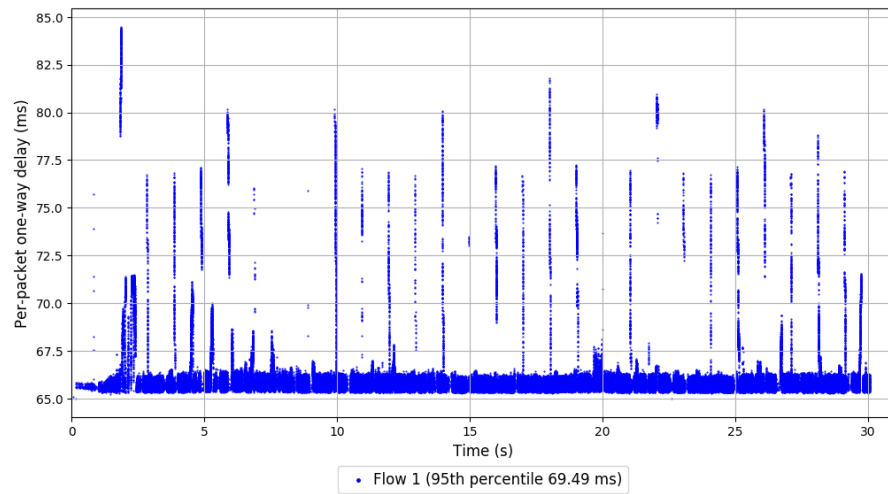
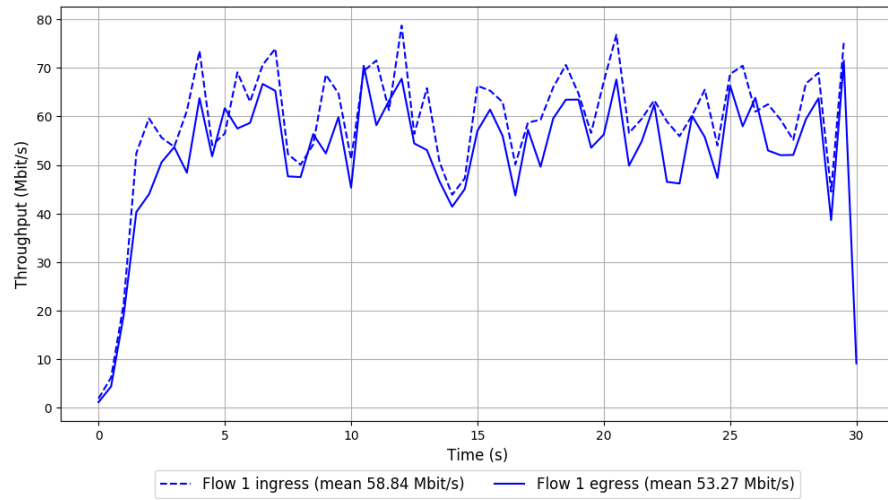
-- Flow 1:

Average throughput: 53.27 Mbit/s

95th percentile per-packet one-way delay: 69.493 ms

Loss rate: 9.47%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-02 14:42:35

End at: 2018-02-02 14:43:05

Local clock offset: -0.367 ms

Remote clock offset: 3.67 ms

Below is generated by plot.py at 2018-02-02 17:37:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.91 Mbit/s

95th percentile per-packet one-way delay: 71.556 ms

Loss rate: 7.84%

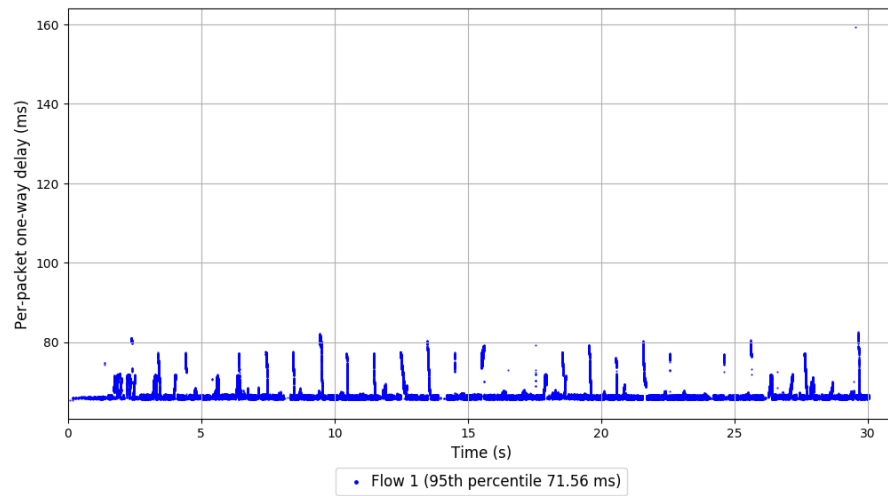
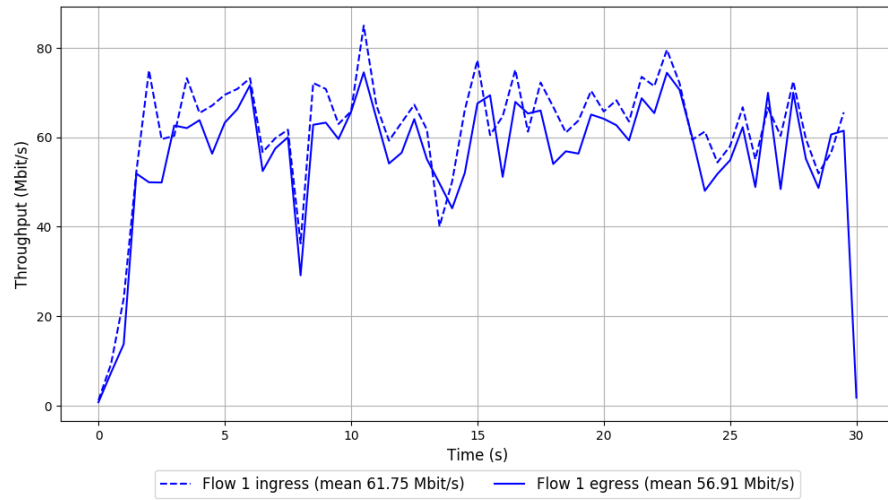
-- Flow 1:

Average throughput: 56.91 Mbit/s

95th percentile per-packet one-way delay: 71.556 ms

Loss rate: 7.84%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-02 15:06:35

End at: 2018-02-02 15:07:05

Local clock offset: -3.366 ms

Remote clock offset: 3.9 ms

Below is generated by plot.py at 2018-02-02 17:37:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.61 Mbit/s

95th percentile per-packet one-way delay: 74.923 ms

Loss rate: 6.43%

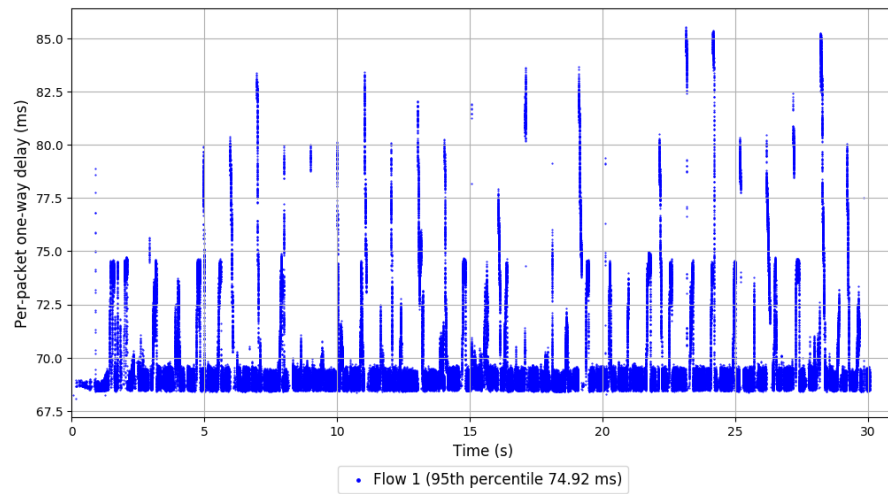
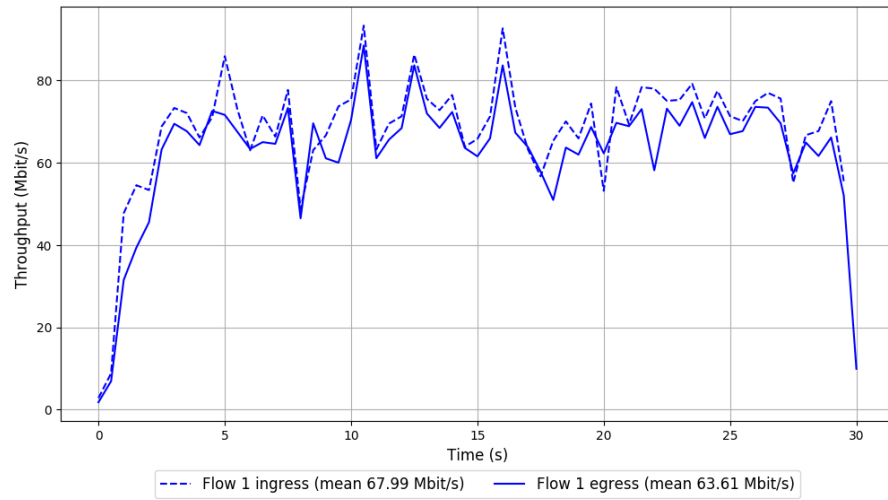
-- Flow 1:

Average throughput: 63.61 Mbit/s

95th percentile per-packet one-way delay: 74.923 ms

Loss rate: 6.43%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-02 15:30:24

End at: 2018-02-02 15:30:54

Local clock offset: -0.842 ms

Remote clock offset: 2.673 ms

Below is generated by plot.py at 2018-02-02 17:38:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.71 Mbit/s

95th percentile per-packet one-way delay: 76.586 ms

Loss rate: 2.95%

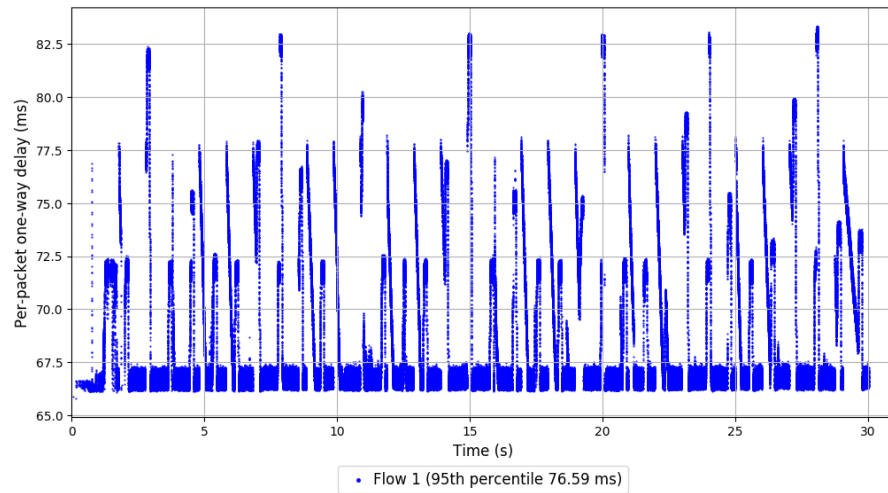
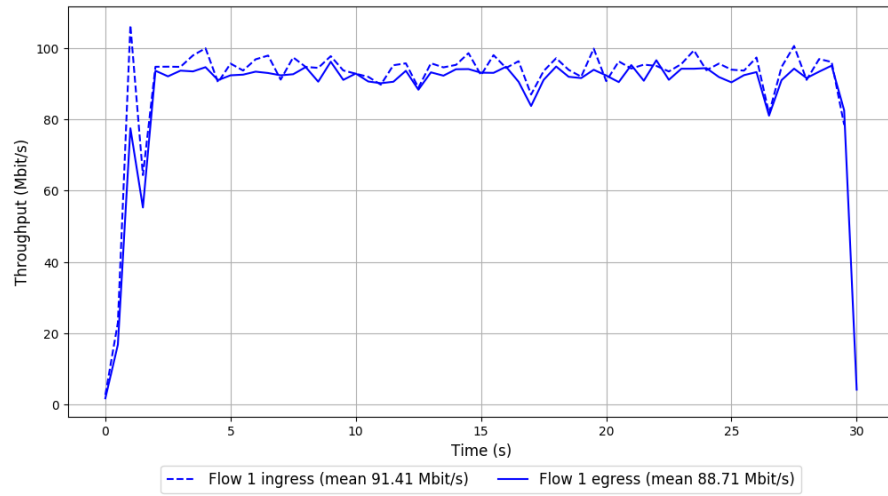
-- Flow 1:

Average throughput: 88.71 Mbit/s

95th percentile per-packet one-way delay: 76.586 ms

Loss rate: 2.95%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-02 15:54:27

End at: 2018-02-02 15:54:57

Local clock offset: -0.946 ms

Remote clock offset: 1.098 ms

Below is generated by plot.py at 2018-02-02 17:38:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.89 Mbit/s

95th percentile per-packet one-way delay: 76.608 ms

Loss rate: 3.84%

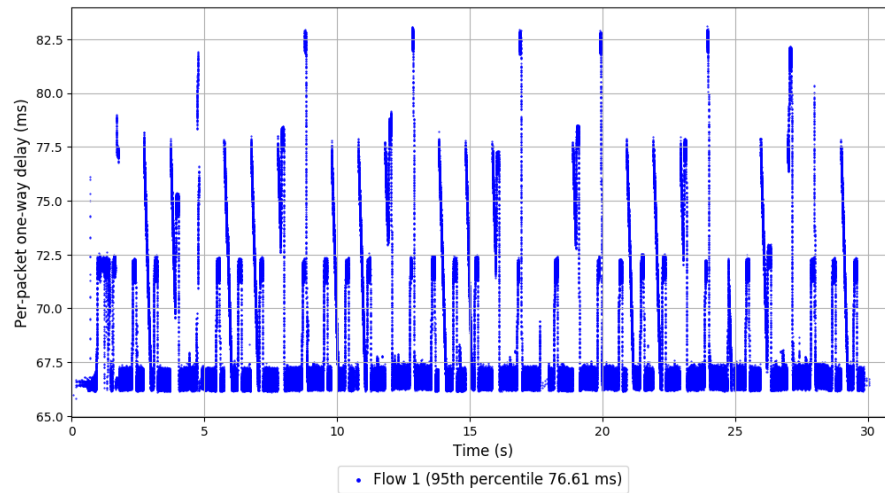
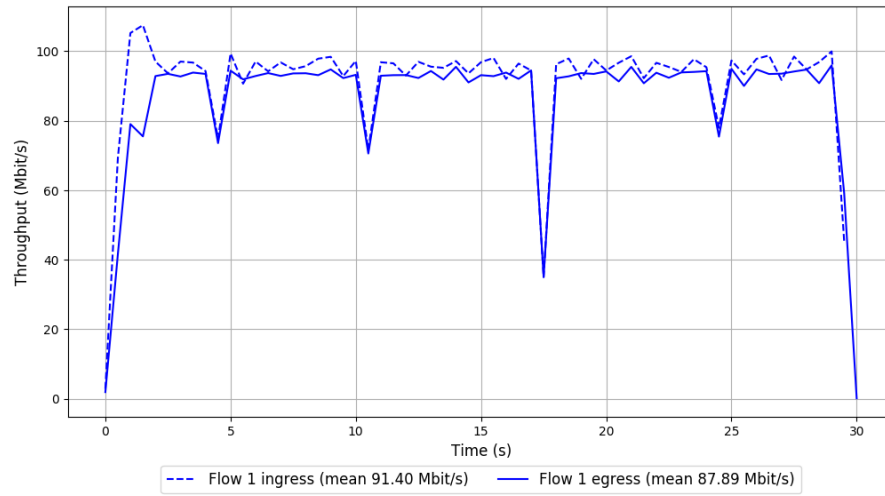
-- Flow 1:

Average throughput: 87.89 Mbit/s

95th percentile per-packet one-way delay: 76.608 ms

Loss rate: 3.84%

Run 8: Report of TCP BBR — Data Link

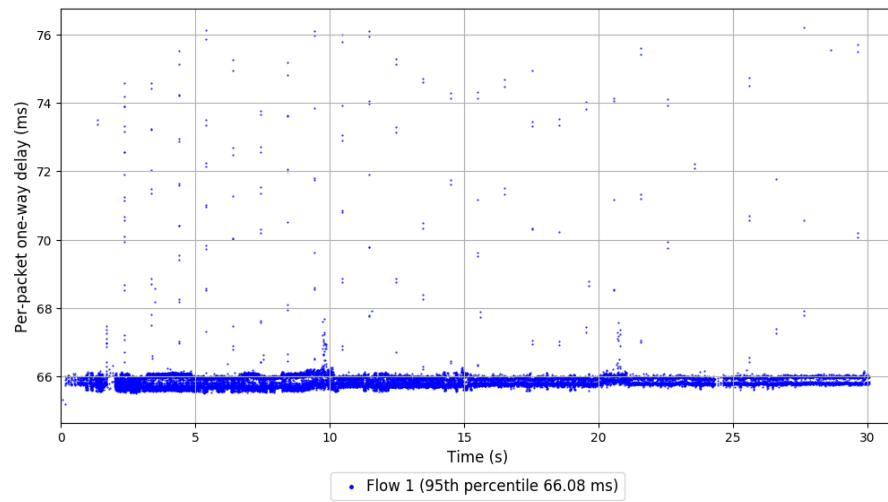
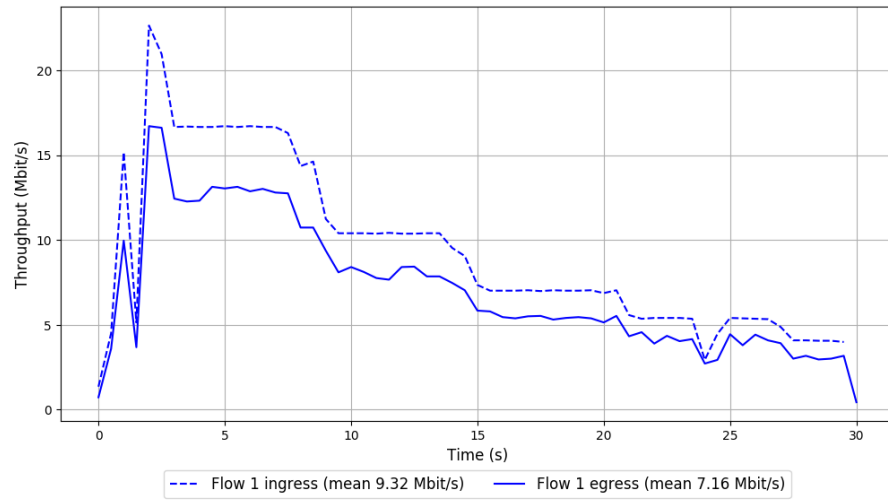


Run 9: Statistics of TCP BBR

Start at: 2018-02-02 16:36:36
End at: 2018-02-02 16:37:06
Local clock offset: -0.911 ms
Remote clock offset: -0.294 ms

Below is generated by plot.py at 2018-02-02 17:38:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.16 Mbit/s
95th percentile per-packet one-way delay: 66.082 ms
Loss rate: 23.14%
-- Flow 1:
Average throughput: 7.16 Mbit/s
95th percentile per-packet one-way delay: 66.082 ms
Loss rate: 23.14%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-02 17:00:55

End at: 2018-02-02 17:01:25

Local clock offset: -0.295 ms

Remote clock offset: -0.249 ms

Below is generated by plot.py at 2018-02-02 17:38:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.02 Mbit/s

95th percentile per-packet one-way delay: 65.787 ms

Loss rate: 13.95%

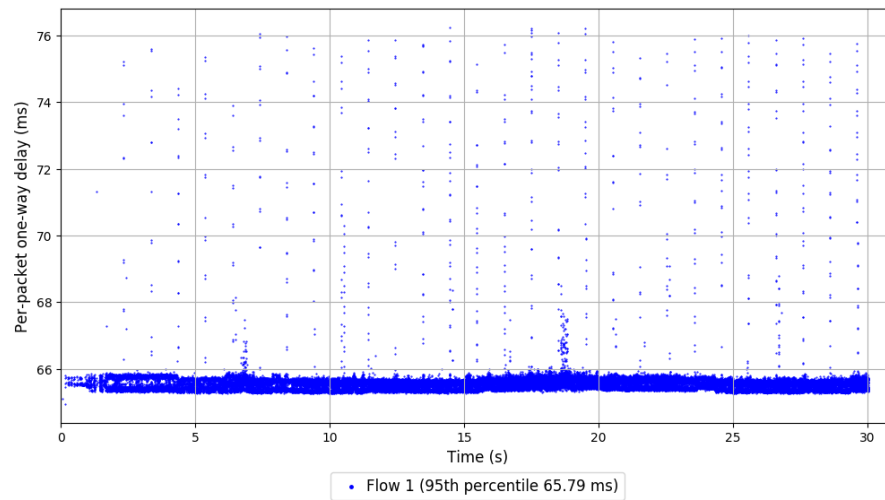
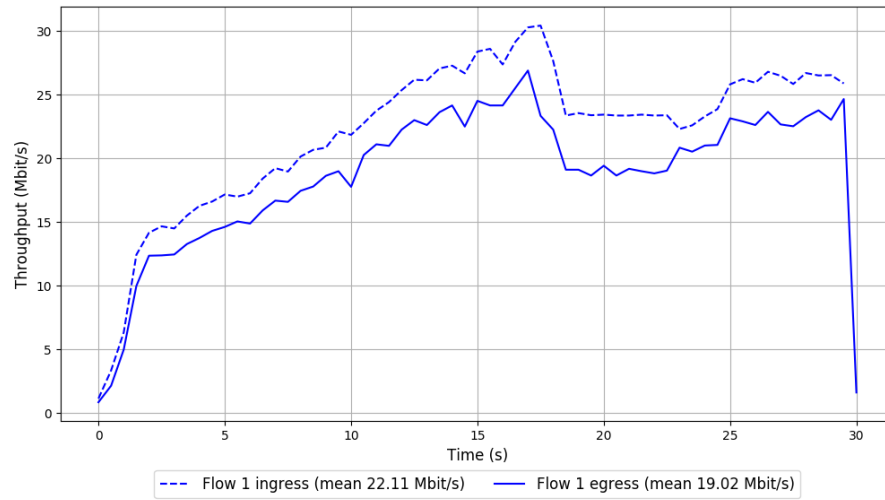
-- Flow 1:

Average throughput: 19.02 Mbit/s

95th percentile per-packet one-way delay: 65.787 ms

Loss rate: 13.95%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

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

End at: 2018-02-02 13:12:43

Local clock offset: -1.067 ms

Remote clock offset: 1.22 ms

Below is generated by plot.py at 2018-02-02 17:38:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 67.265 ms

Loss rate: 8.74%

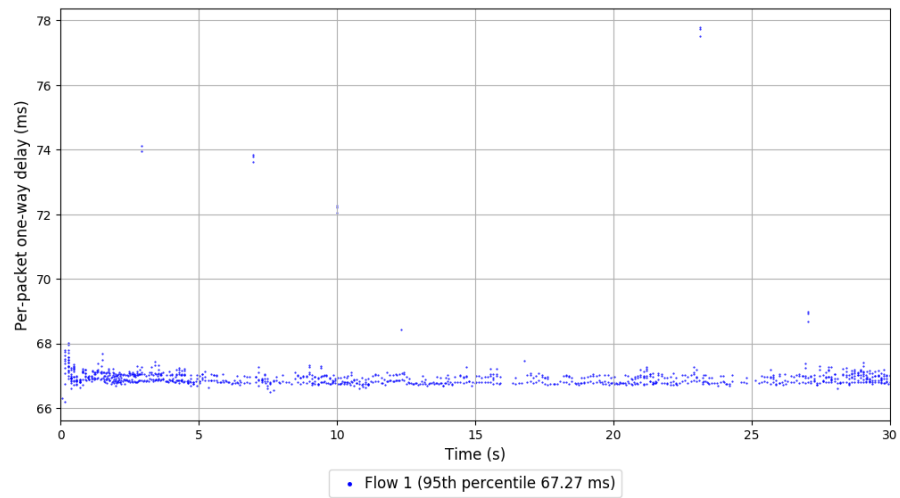
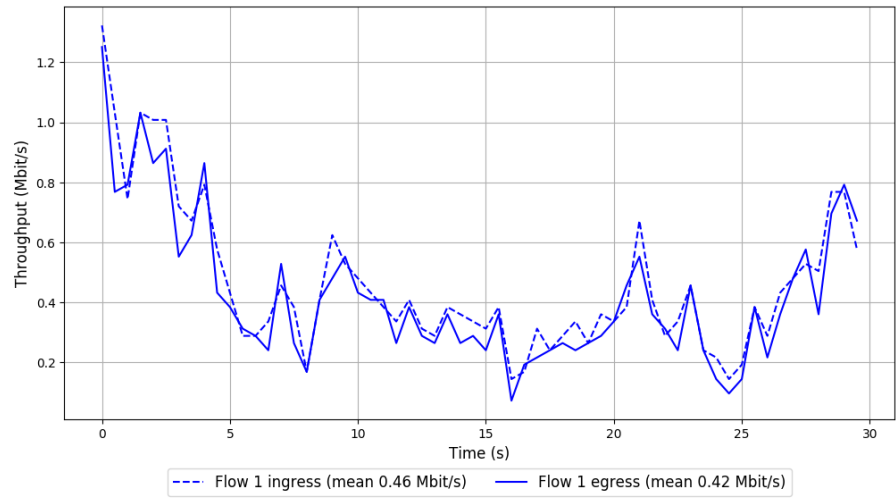
-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 67.265 ms

Loss rate: 8.74%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-02 13:36:09

End at: 2018-02-02 13:36:39

Local clock offset: -0.378 ms

Remote clock offset: 2.043 ms

Below is generated by plot.py at 2018-02-02 17:38:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 66.575 ms

Loss rate: 8.99%

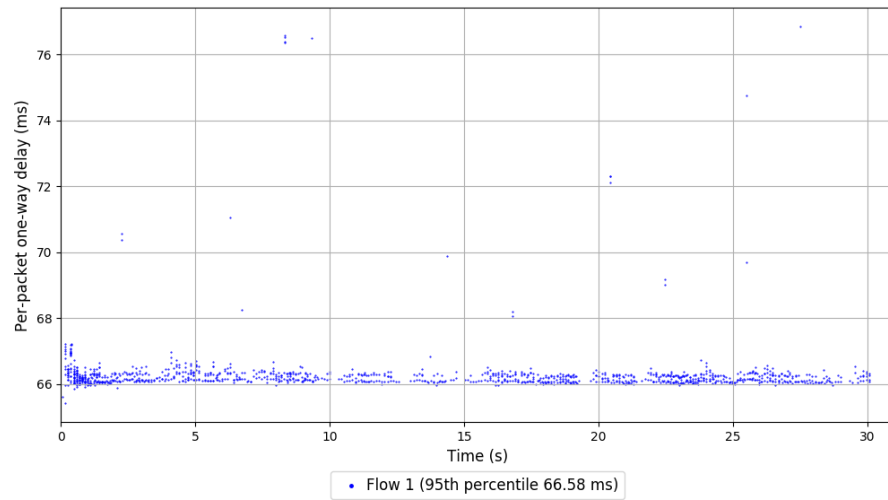
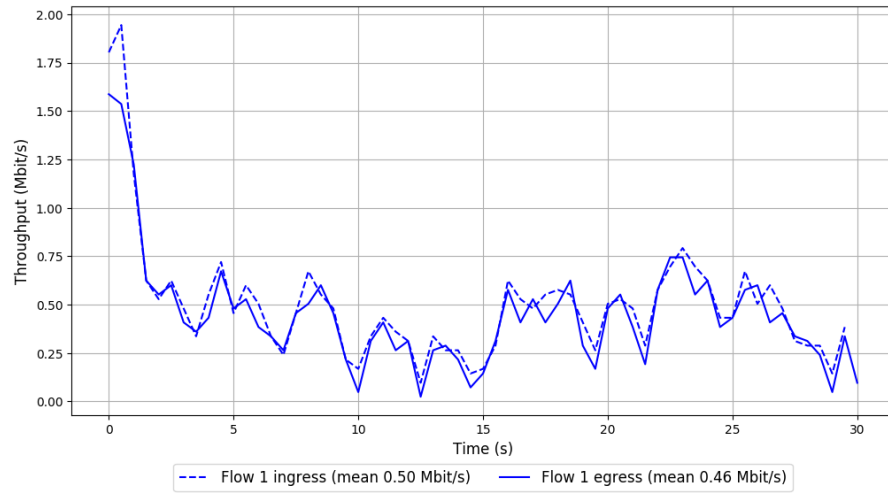
-- Flow 1:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 66.575 ms

Loss rate: 8.99%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-02 14:00:05

End at: 2018-02-02 14:00:35

Local clock offset: -0.683 ms

Remote clock offset: 2.653 ms

Below is generated by plot.py at 2018-02-02 17:38:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 66.653 ms

Loss rate: 10.06%

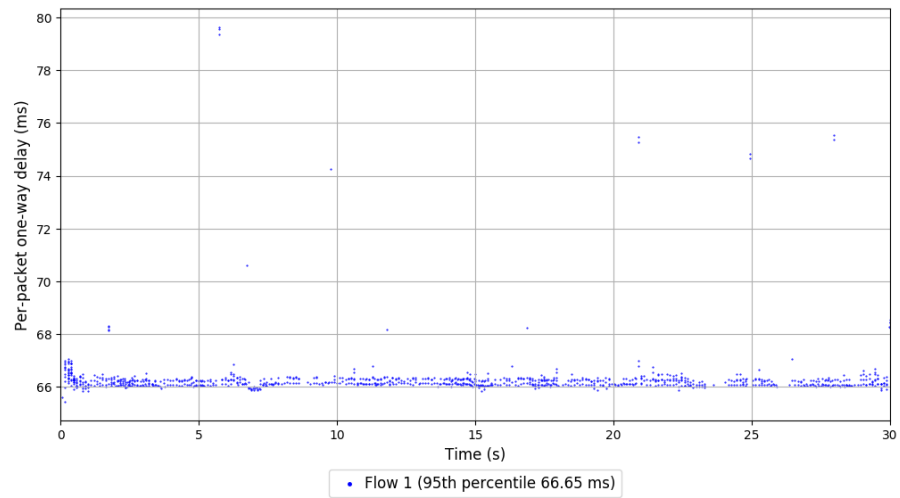
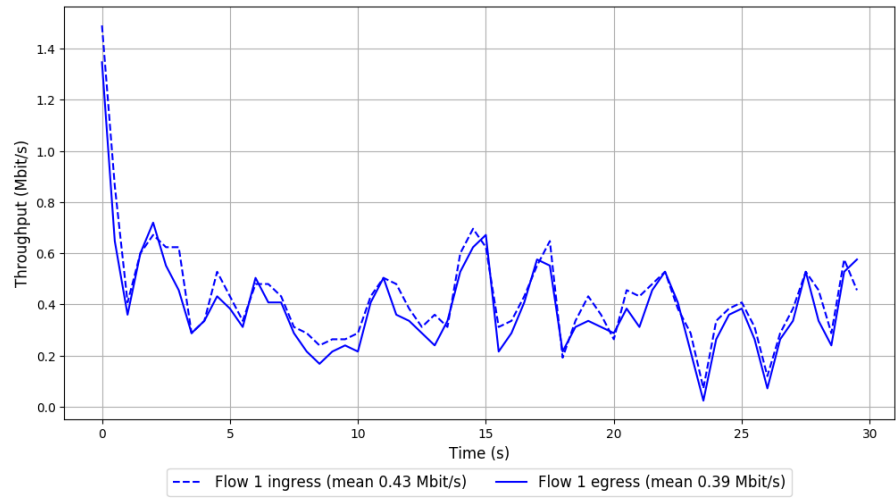
-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 66.653 ms

Loss rate: 10.06%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-02 14:24:02

End at: 2018-02-02 14:24:32

Local clock offset: -0.717 ms

Remote clock offset: 3.349 ms

Below is generated by plot.py at 2018-02-02 17:38:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 66.624 ms

Loss rate: 5.96%

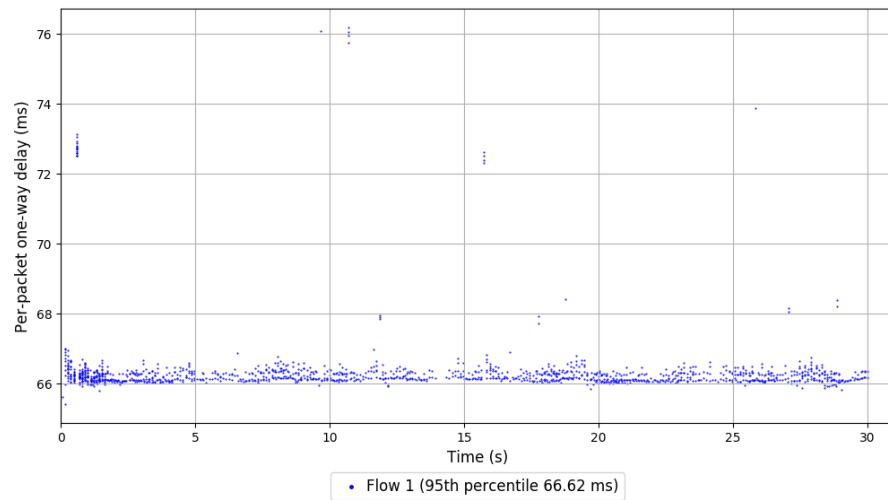
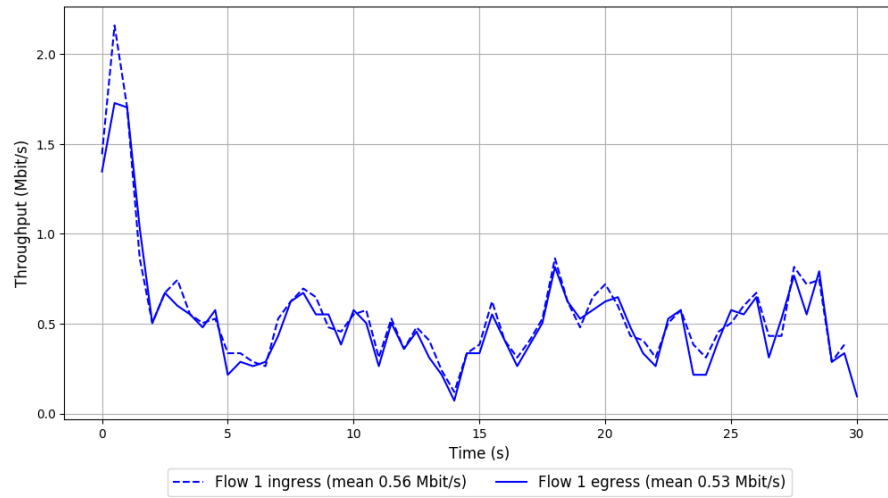
-- Flow 1:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 66.624 ms

Loss rate: 5.96%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-02 14:47:57

End at: 2018-02-02 14:48:27

Local clock offset: -0.787 ms

Remote clock offset: 3.707 ms

Below is generated by plot.py at 2018-02-02 17:38:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.53 Mbit/s

95th percentile per-packet one-way delay: 70.334 ms

Loss rate: 4.74%

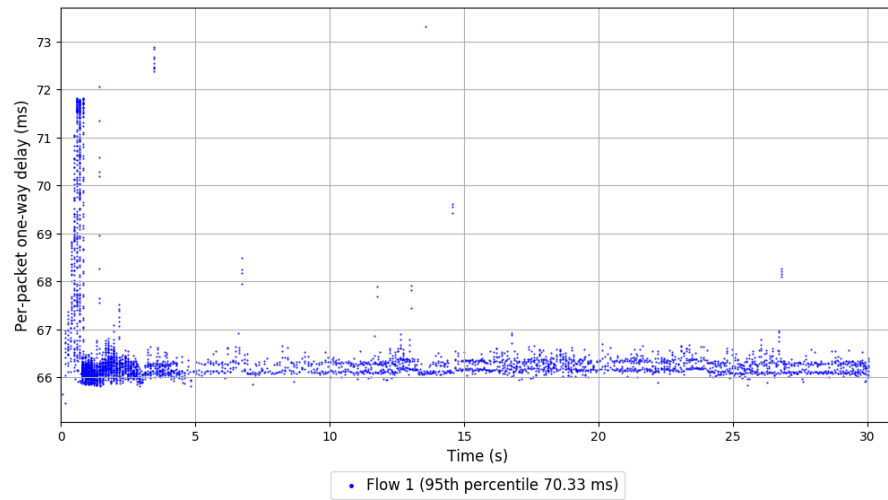
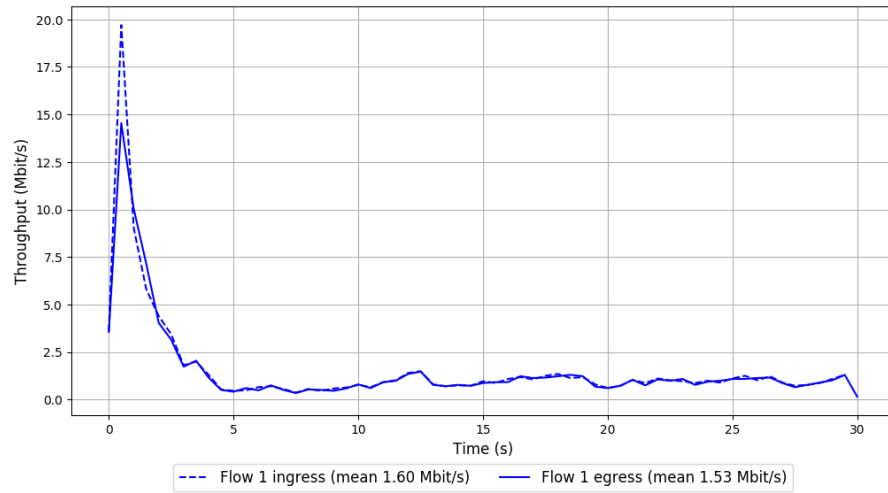
-- Flow 1:

Average throughput: 1.53 Mbit/s

95th percentile per-packet one-way delay: 70.334 ms

Loss rate: 4.74%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-02 15:11:53

End at: 2018-02-02 15:12:23

Local clock offset: -0.348 ms

Remote clock offset: 3.96 ms

Below is generated by plot.py at 2018-02-02 17:38:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.85 Mbit/s

95th percentile per-packet one-way delay: 66.955 ms

Loss rate: 4.23%

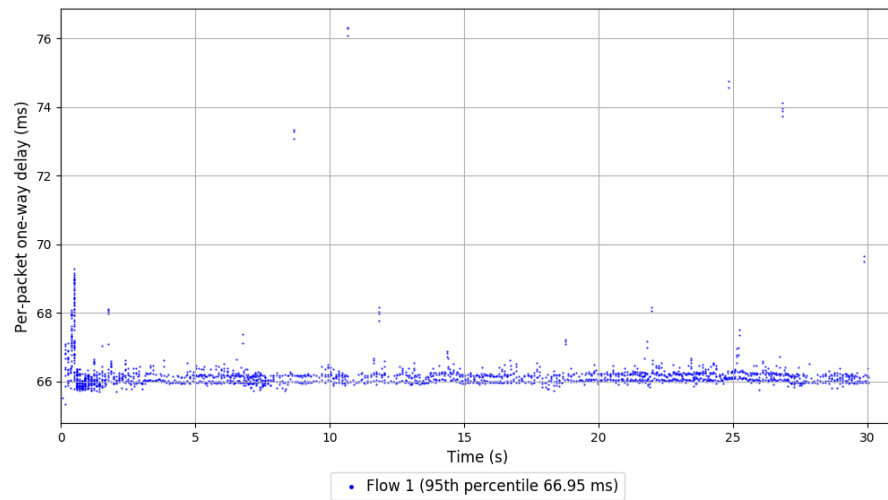
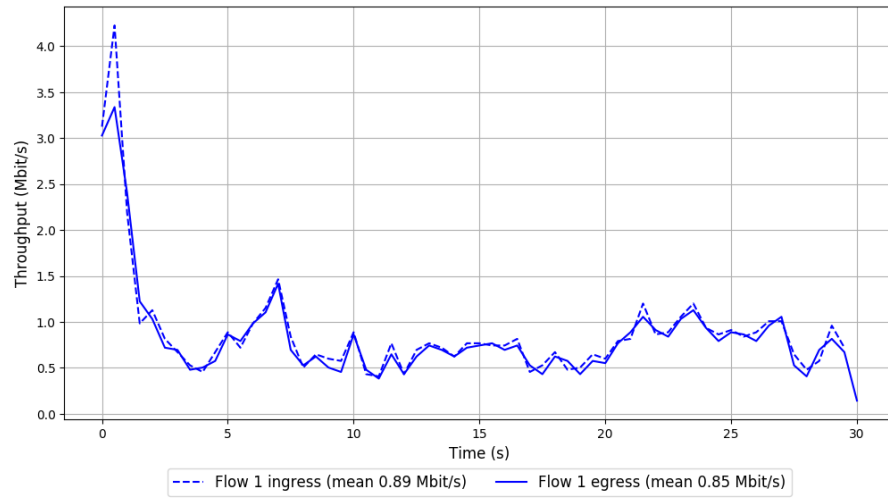
-- Flow 1:

Average throughput: 0.85 Mbit/s

95th percentile per-packet one-way delay: 66.955 ms

Loss rate: 4.23%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-02 15:35:45

End at: 2018-02-02 15:36:15

Local clock offset: -0.754 ms

Remote clock offset: 2.196 ms

Below is generated by plot.py at 2018-02-02 17:38:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.15 Mbit/s

95th percentile per-packet one-way delay: 66.861 ms

Loss rate: 0.58%

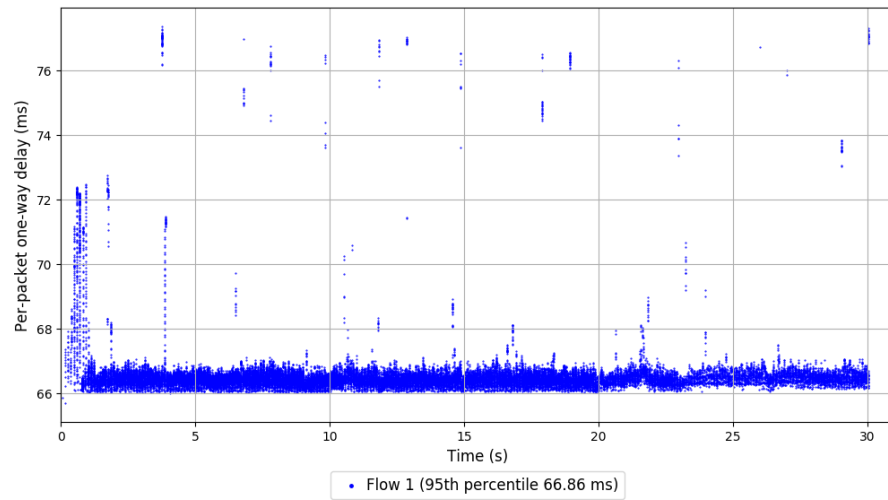
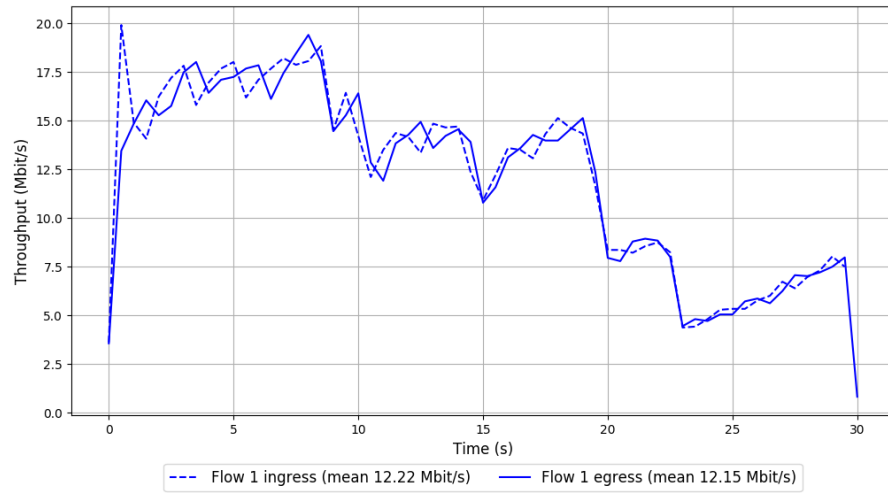
-- Flow 1:

Average throughput: 12.15 Mbit/s

95th percentile per-packet one-way delay: 66.861 ms

Loss rate: 0.58%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-02 15:59:49

End at: 2018-02-02 16:00:19

Local clock offset: -0.79 ms

Remote clock offset: 0.947 ms

Below is generated by plot.py at 2018-02-02 17:38:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.02 Mbit/s

95th percentile per-packet one-way delay: 67.161 ms

Loss rate: 62.14%

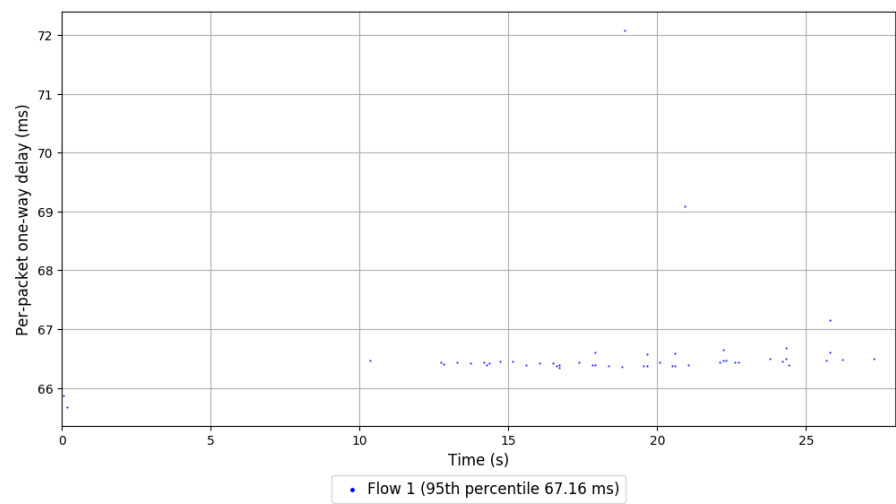
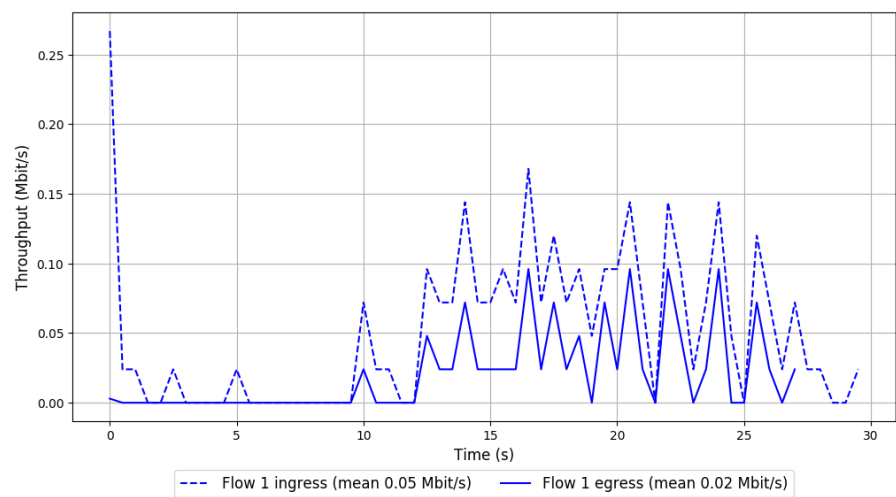
-- Flow 1:

Average throughput: 0.02 Mbit/s

95th percentile per-packet one-way delay: 67.161 ms

Loss rate: 62.14%

Run 8: Report of TCP Cubic — Data Link

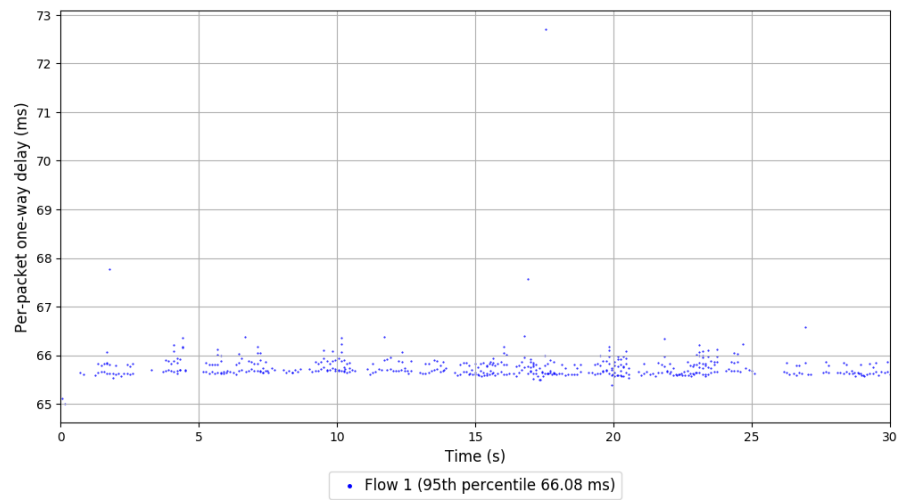
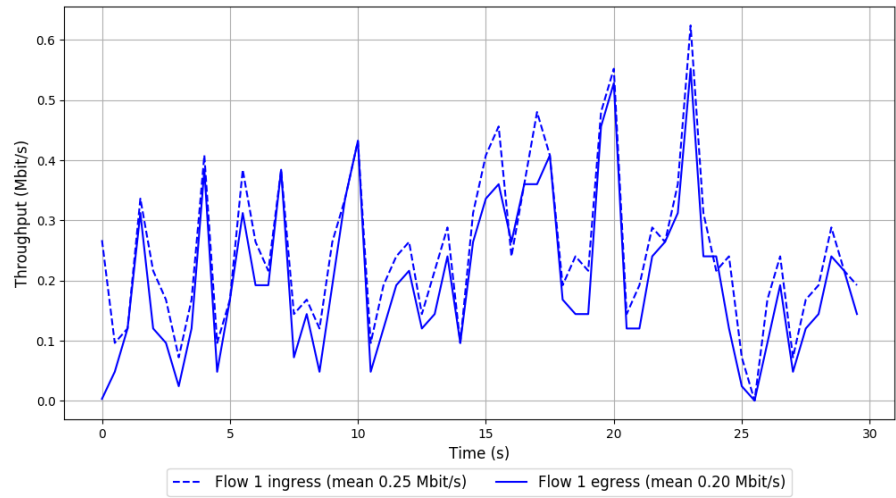


Run 9: Statistics of TCP Cubic

Start at: 2018-02-02 16:42:07
End at: 2018-02-02 16:42:37
Local clock offset: -0.612 ms
Remote clock offset: -0.263 ms

Below is generated by plot.py at 2018-02-02 17:38:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 66.085 ms
Loss rate: 18.78%
-- Flow 1:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 66.085 ms
Loss rate: 18.78%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-02 17:06:17

End at: 2018-02-02 17:06:47

Local clock offset: -0.844 ms

Remote clock offset: -0.151 ms

Below is generated by plot.py at 2018-02-02 17:38:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 66.458 ms

Loss rate: 11.90%

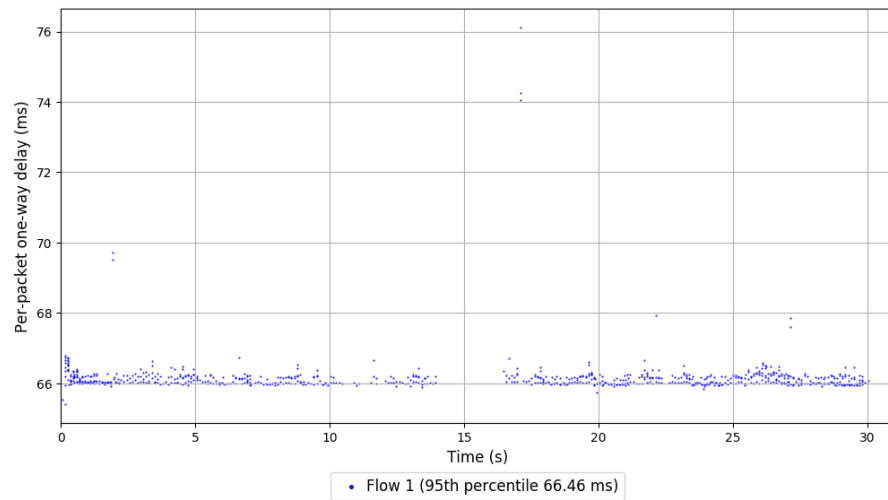
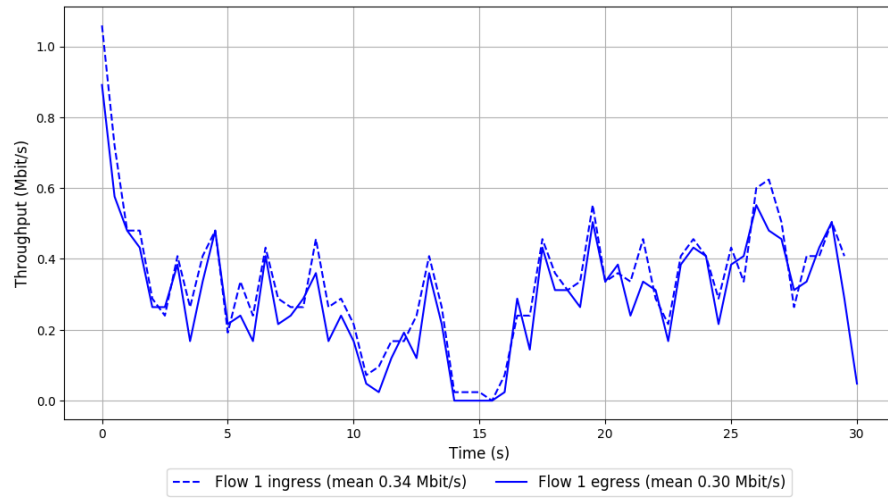
-- Flow 1:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 66.458 ms

Loss rate: 11.90%

Run 10: Report of TCP Cubic — Data Link

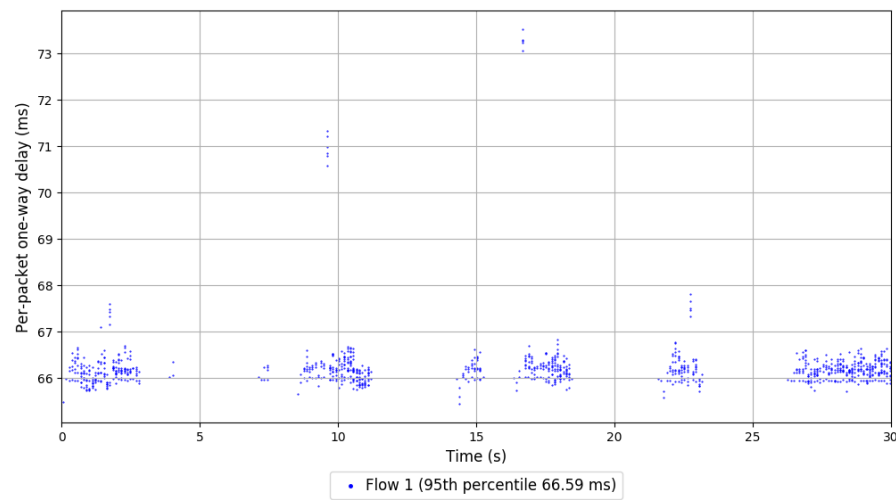
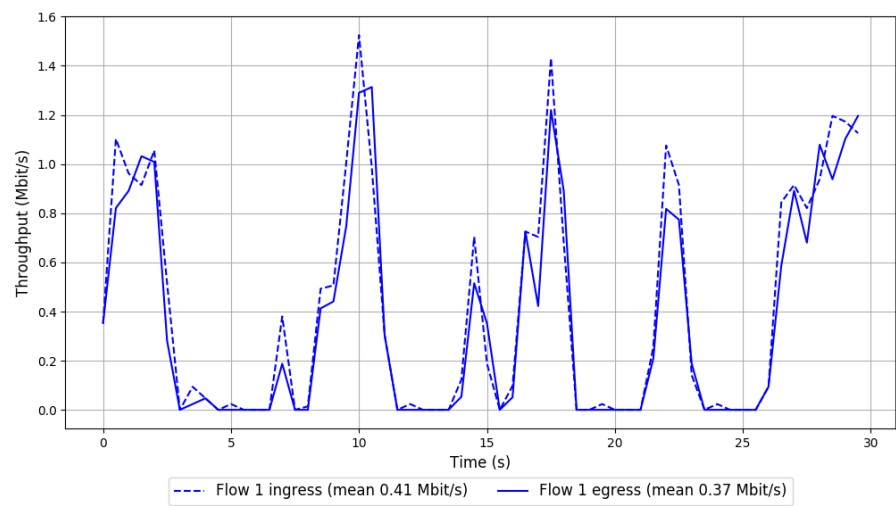


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-02 12:56:01
End at: 2018-02-02 12:56:31
Local clock offset: -0.297 ms
Remote clock offset: 0.699 ms

# Below is generated by plot.py at 2018-02-02 17:38:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 66.586 ms
Loss rate: 10.44%
-- Flow 1:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 66.586 ms
Loss rate: 10.44%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-02-02 13:20:11

End at: 2018-02-02 13:20:41

Local clock offset: -0.561 ms

Remote clock offset: 1.391 ms

Below is generated by plot.py at 2018-02-02 17:38:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 66.853 ms

Loss rate: 12.09%

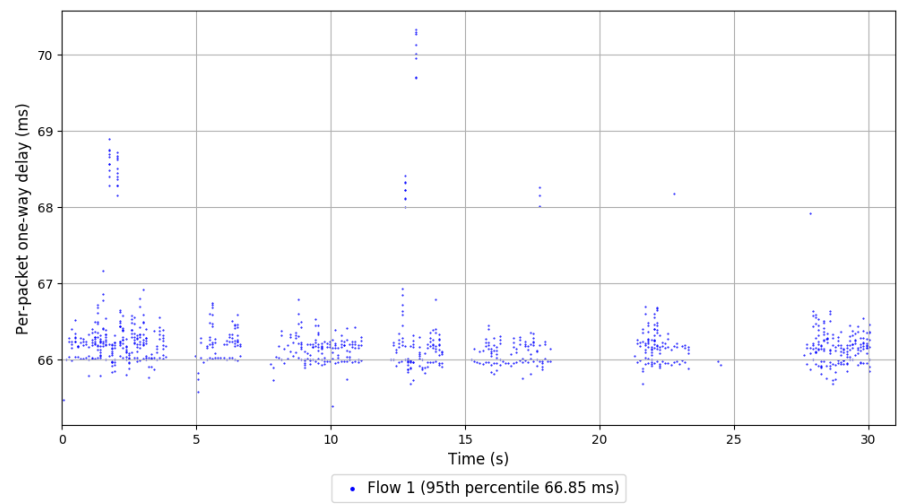
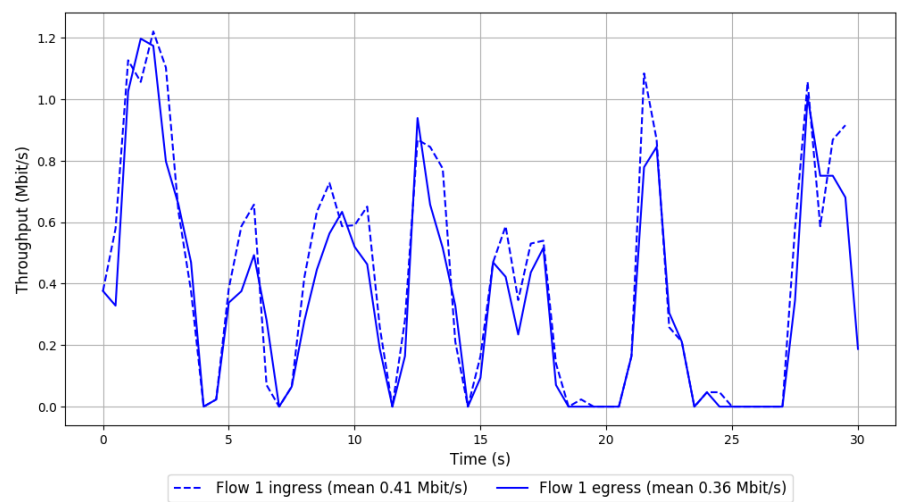
-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 66.853 ms

Loss rate: 12.09%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-02 13:44:08

End at: 2018-02-02 13:44:38

Local clock offset: -0.619 ms

Remote clock offset: 2.215 ms

Below is generated by plot.py at 2018-02-02 17:38:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 66.677 ms

Loss rate: 9.30%

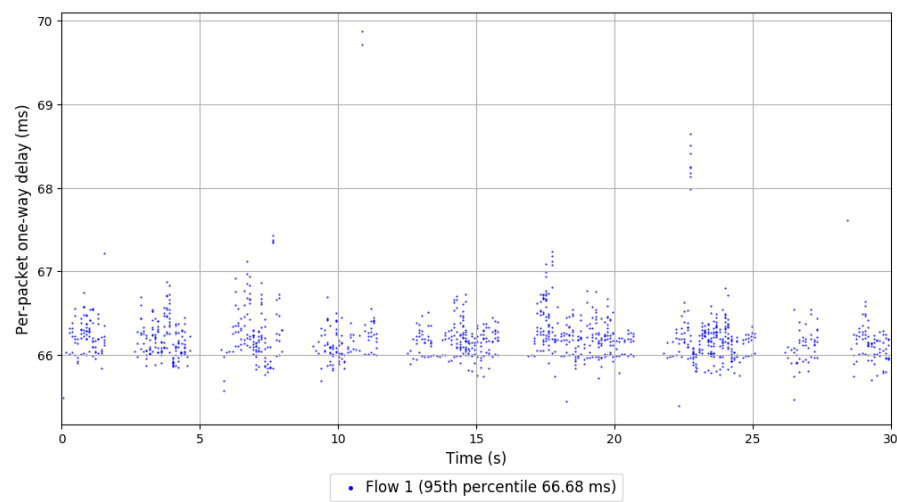
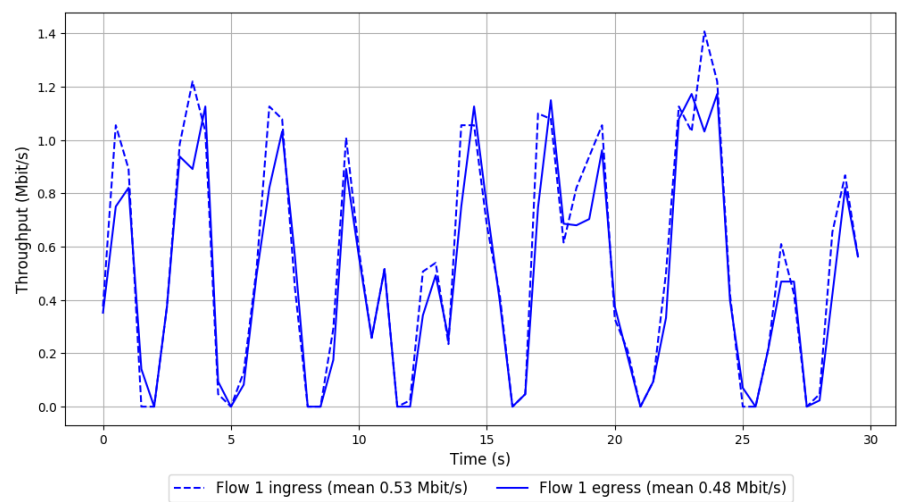
-- Flow 1:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 66.677 ms

Loss rate: 9.30%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-02 14:08:01

End at: 2018-02-02 14:08:31

Local clock offset: -0.498 ms

Remote clock offset: 2.773 ms

Below is generated by plot.py at 2018-02-02 17:38:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.65 Mbit/s

95th percentile per-packet one-way delay: 66.704 ms

Loss rate: 8.49%

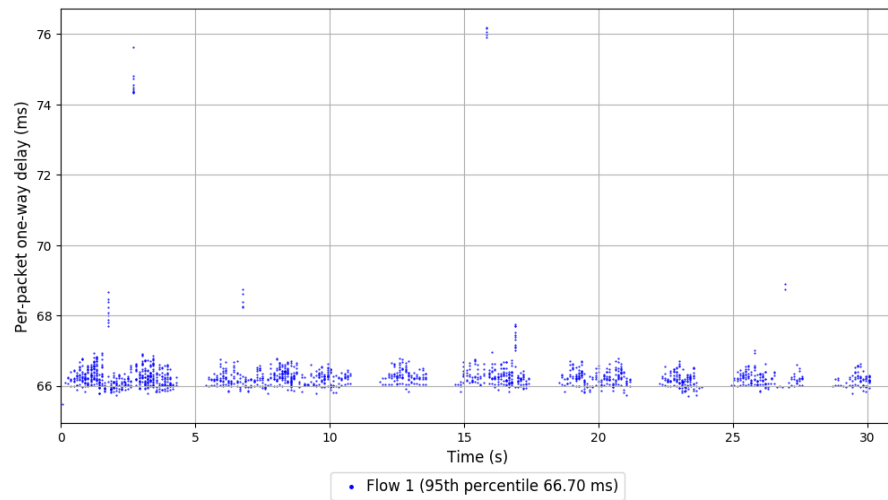
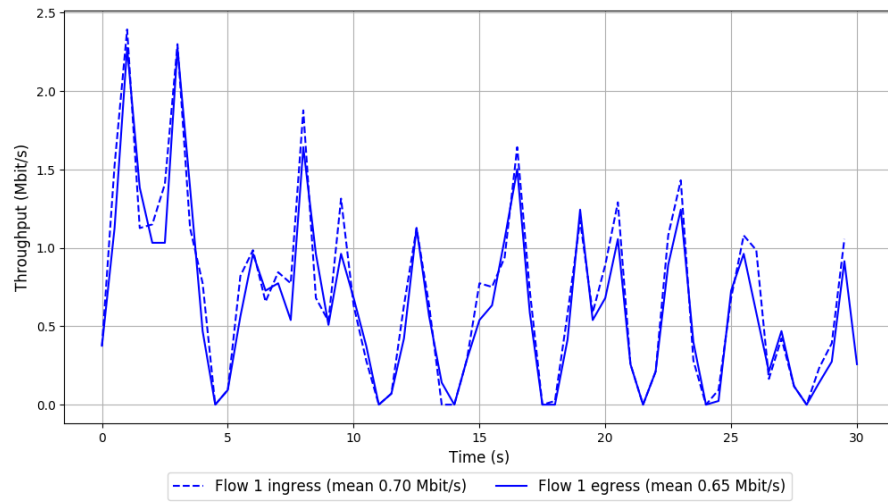
-- Flow 1:

Average throughput: 0.65 Mbit/s

95th percentile per-packet one-way delay: 66.704 ms

Loss rate: 8.49%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-02 14:31:59

End at: 2018-02-02 14:32:29

Local clock offset: -1.126 ms

Remote clock offset: 3.507 ms

Below is generated by plot.py at 2018-02-02 17:38:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 67.419 ms

Loss rate: 9.11%

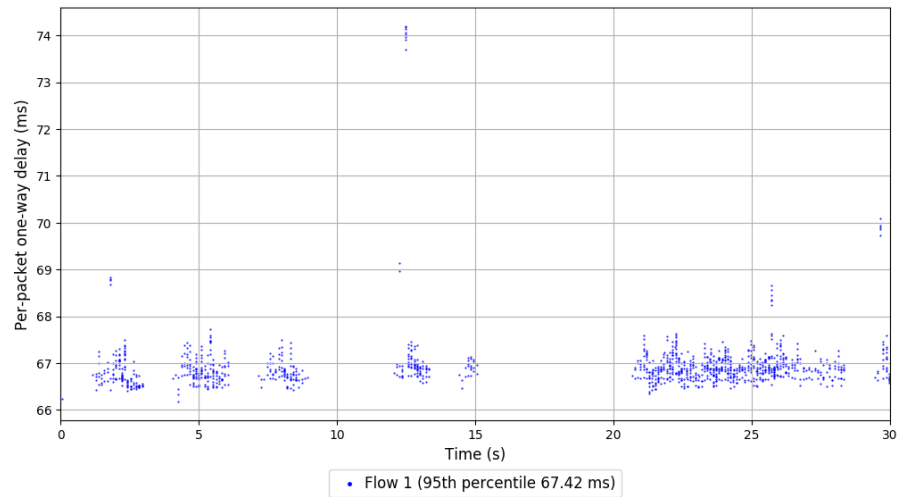
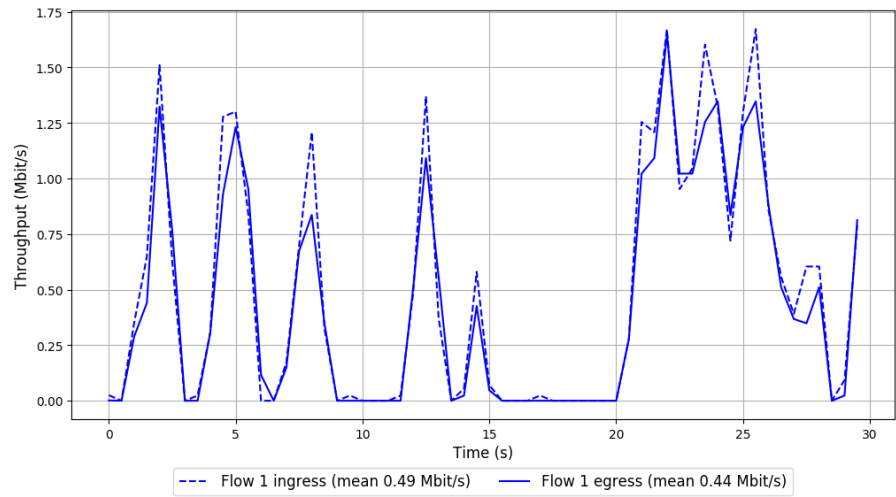
-- Flow 1:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 67.419 ms

Loss rate: 9.11%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-02 14:55:59

End at: 2018-02-02 14:56:29

Local clock offset: -0.463 ms

Remote clock offset: 3.769 ms

Below is generated by plot.py at 2018-02-02 17:38:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.83 Mbit/s

95th percentile per-packet one-way delay: 66.728 ms

Loss rate: 1.05%

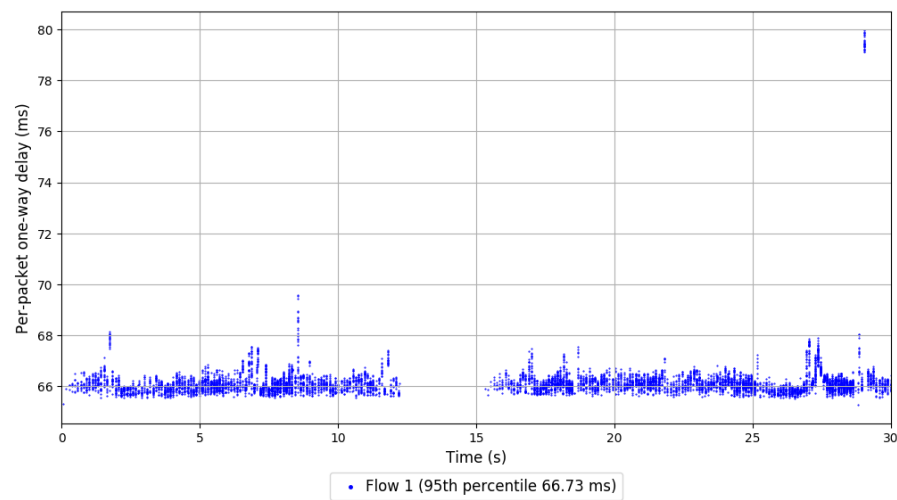
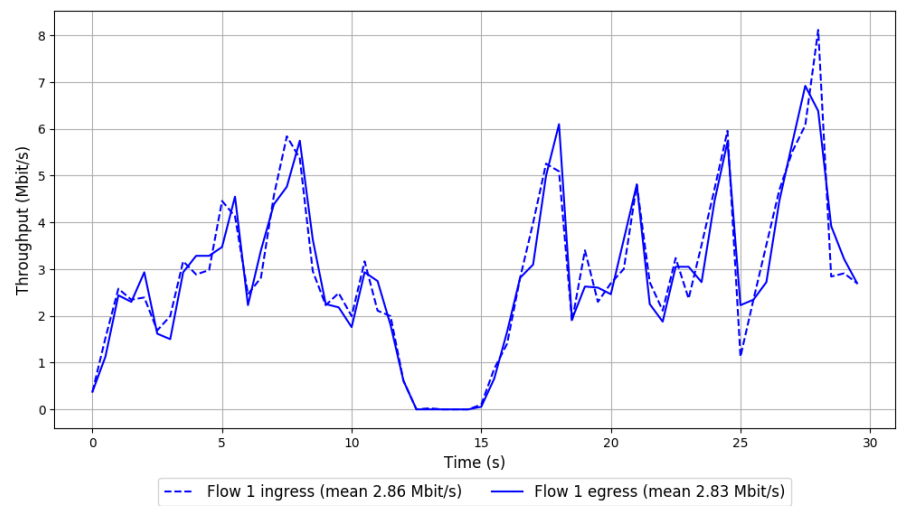
-- Flow 1:

Average throughput: 2.83 Mbit/s

95th percentile per-packet one-way delay: 66.728 ms

Loss rate: 1.05%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-02 15:19:49

End at: 2018-02-02 15:20:19

Local clock offset: -0.712 ms

Remote clock offset: 3.576 ms

Below is generated by plot.py at 2018-02-02 17:38:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.00 Mbit/s

95th percentile per-packet one-way delay: 67.083 ms

Loss rate: 4.79%

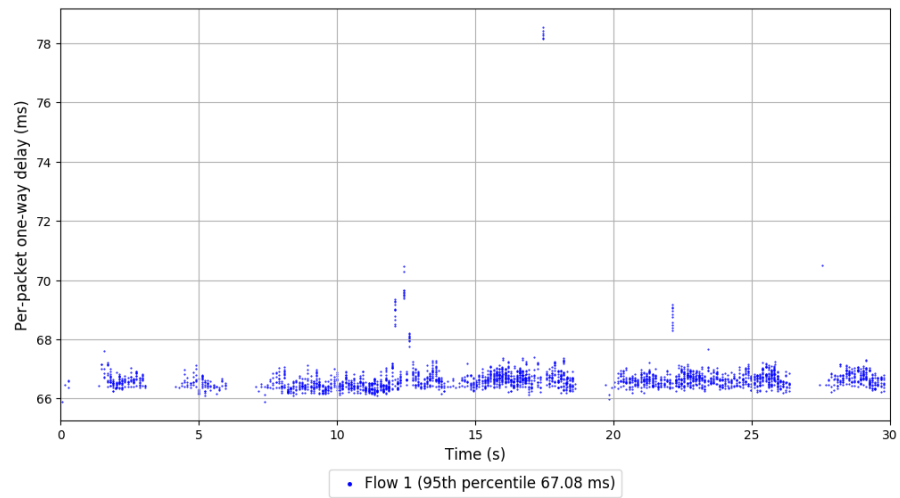
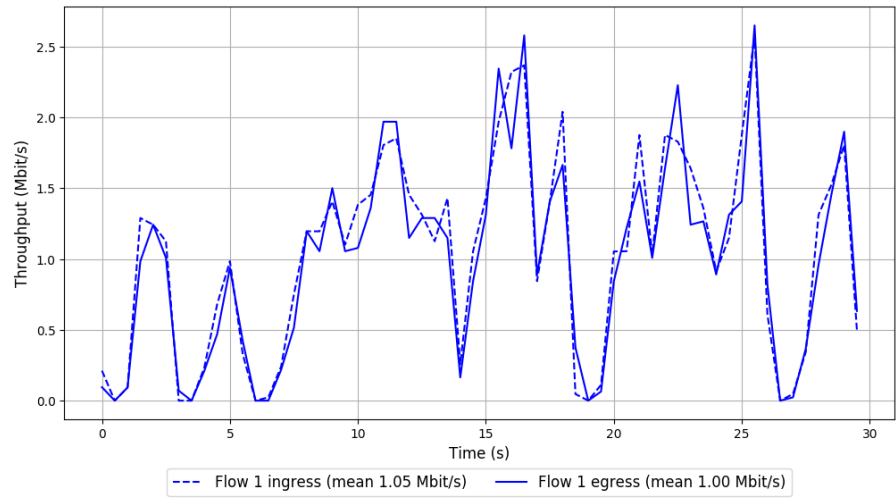
-- Flow 1:

Average throughput: 1.00 Mbit/s

95th percentile per-packet one-way delay: 67.083 ms

Loss rate: 4.79%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-02 15:43:47

End at: 2018-02-02 15:44:17

Local clock offset: -1.15 ms

Remote clock offset: 1.472 ms

Below is generated by plot.py at 2018-02-02 17:38:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.09 Mbit/s

95th percentile per-packet one-way delay: 68.634 ms

Loss rate: 0.47%

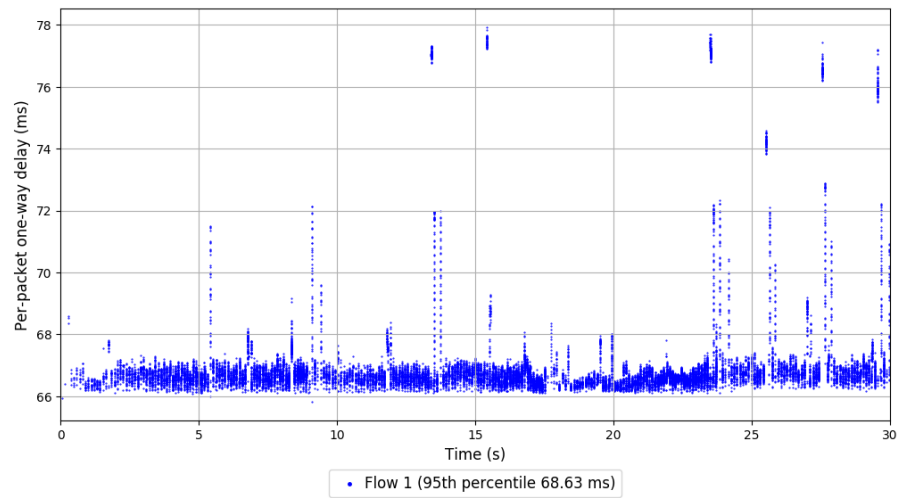
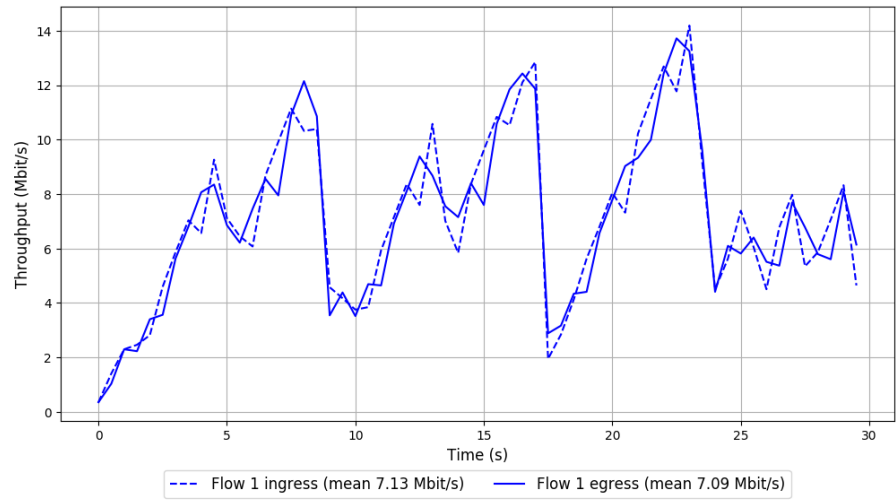
-- Flow 1:

Average throughput: 7.09 Mbit/s

95th percentile per-packet one-way delay: 68.634 ms

Loss rate: 0.47%

Run 8: Report of LEDBAT — Data Link

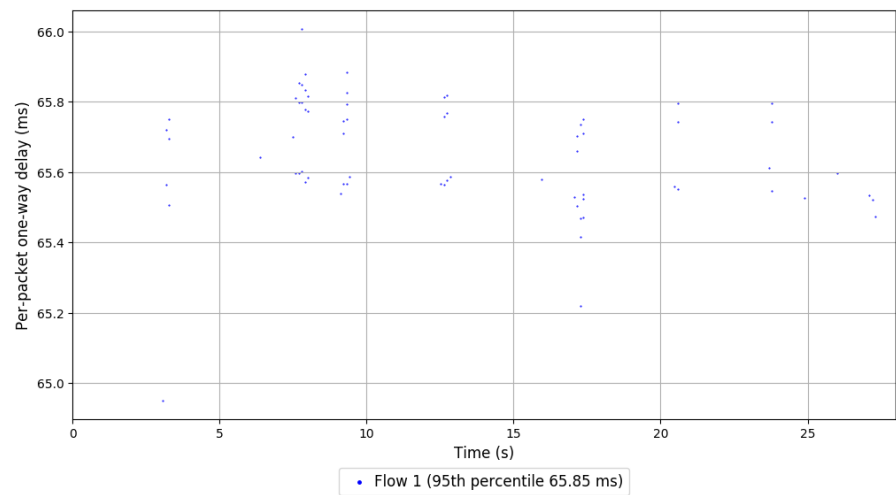
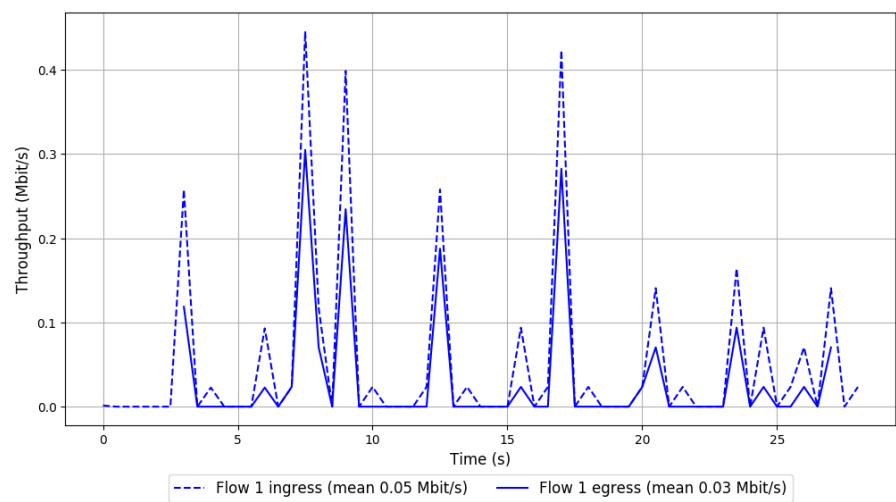


Run 9: Statistics of LEDBAT

Start at: 2018-02-02 16:25:06
End at: 2018-02-02 16:25:36
Local clock offset: -0.674 ms
Remote clock offset: -0.304 ms

Below is generated by plot.py at 2018-02-02 17:38:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 65.854 ms
Loss rate: 46.78%
-- Flow 1:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 65.854 ms
Loss rate: 46.78%

Run 9: Report of LEDBAT — Data Link

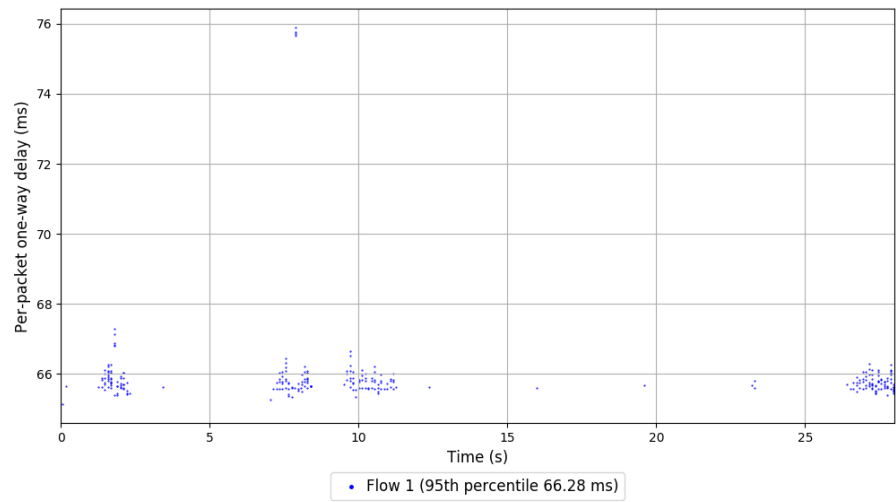
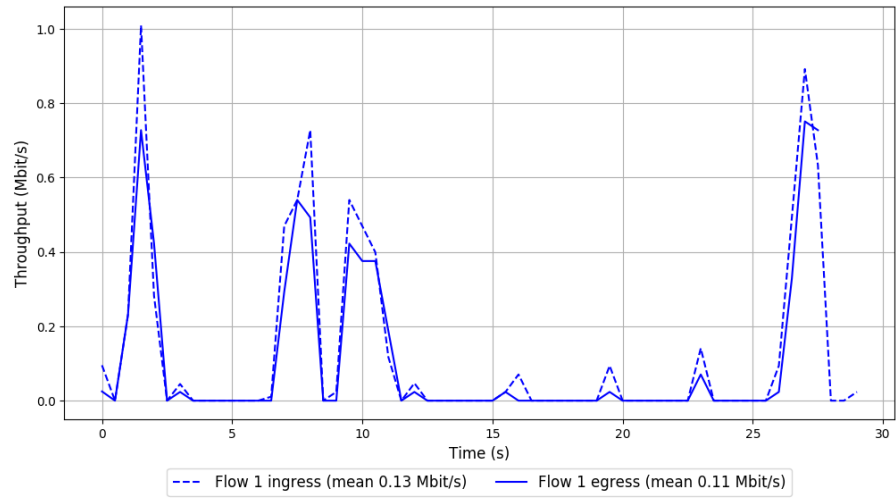


Run 10: Statistics of LEDBAT

Start at: 2018-02-02 16:50:18
End at: 2018-02-02 16:50:48
Local clock offset: -0.291 ms
Remote clock offset: -0.228 ms

Below is generated by plot.py at 2018-02-02 17:38:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 66.283 ms
Loss rate: 18.51%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 66.283 ms
Loss rate: 18.51%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

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

End at: 2018-02-02 13:16:43

Local clock offset: -0.396 ms

Remote clock offset: 1.343 ms

Below is generated by plot.py at 2018-02-02 17:38:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 65.891 ms

Loss rate: 7.91%

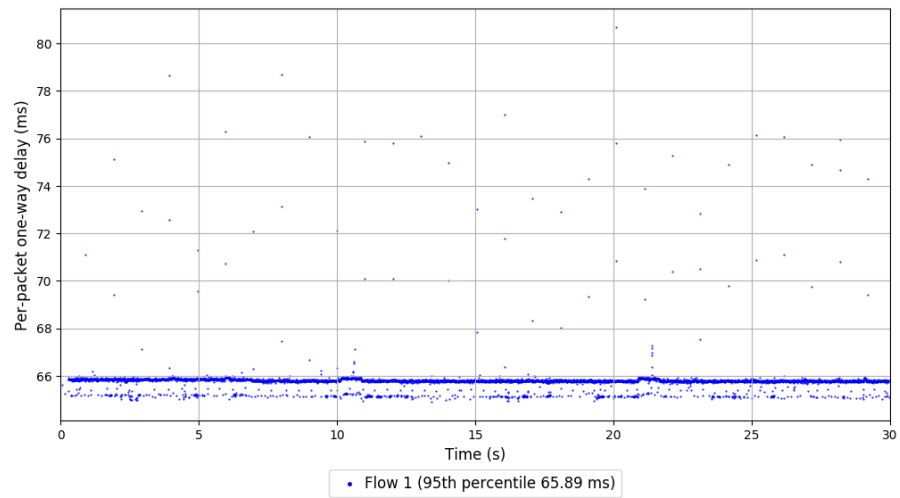
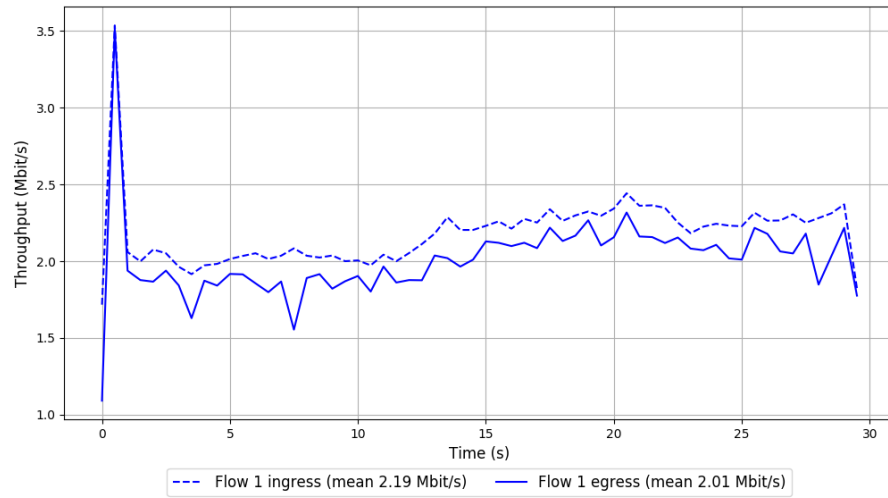
-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 65.891 ms

Loss rate: 7.91%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-02 13:40:08

End at: 2018-02-02 13:40:38

Local clock offset: -0.508 ms

Remote clock offset: 2.158 ms

Below is generated by plot.py at 2018-02-02 17:38:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.58 Mbit/s

95th percentile per-packet one-way delay: 66.002 ms

Loss rate: 8.03%

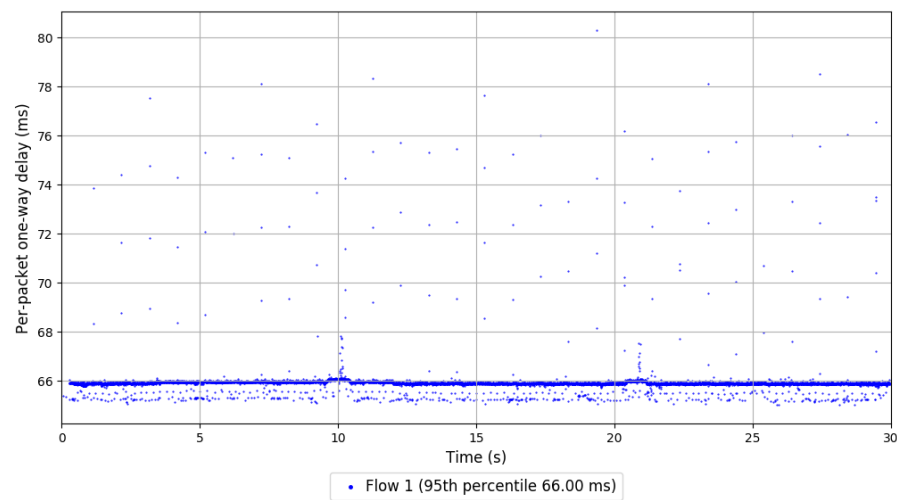
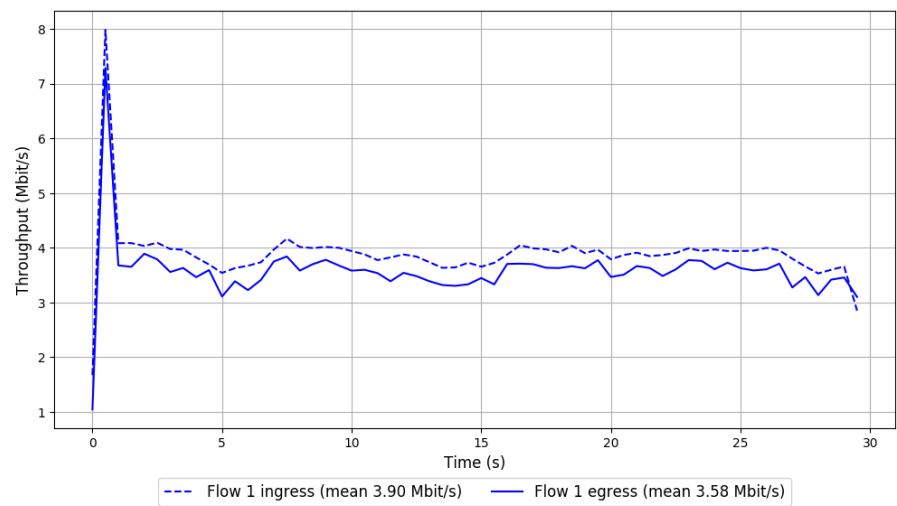
-- Flow 1:

Average throughput: 3.58 Mbit/s

95th percentile per-packet one-way delay: 66.002 ms

Loss rate: 8.03%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-02 14:04:05

End at: 2018-02-02 14:04:35

Local clock offset: -3.217 ms

Remote clock offset: 2.722 ms

Below is generated by plot.py at 2018-02-02 17:38:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 68.835 ms

Loss rate: 3.85%

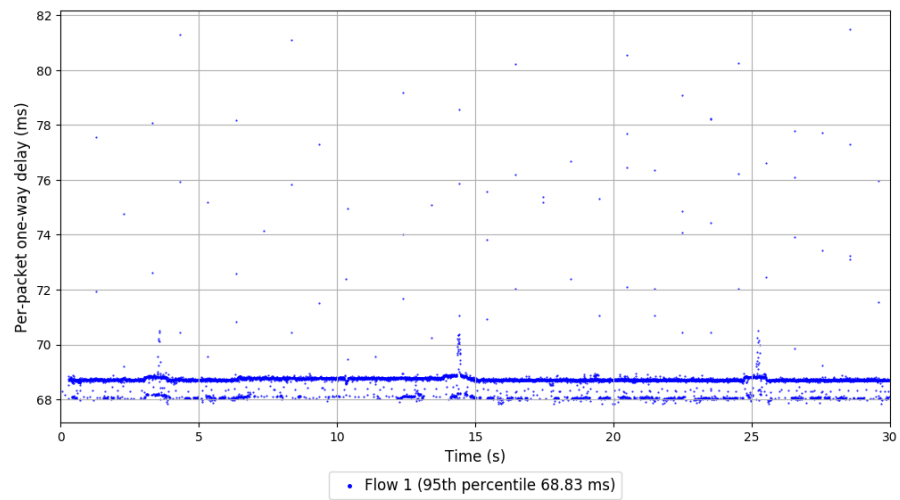
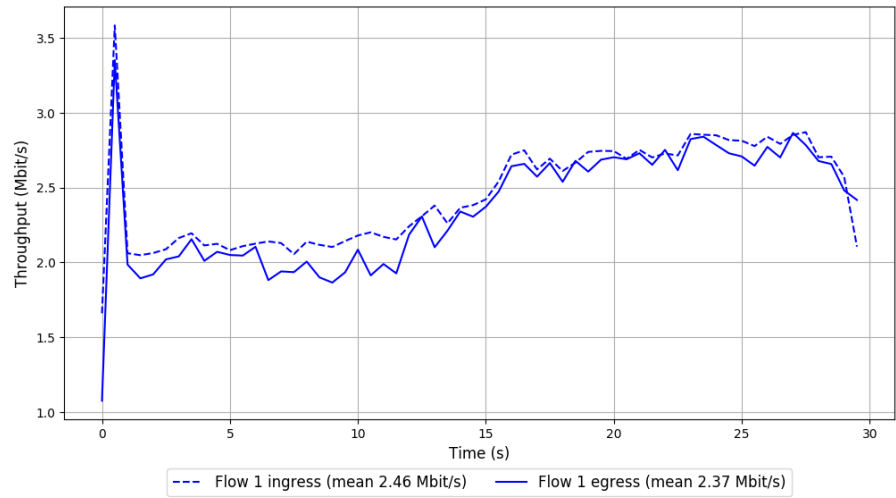
-- Flow 1:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 68.835 ms

Loss rate: 3.85%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-02 14:28:01

End at: 2018-02-02 14:28:31

Local clock offset: -1.194 ms

Remote clock offset: 3.463 ms

Below is generated by plot.py at 2018-02-02 17:38:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.83 Mbit/s

95th percentile per-packet one-way delay: 66.913 ms

Loss rate: 7.09%

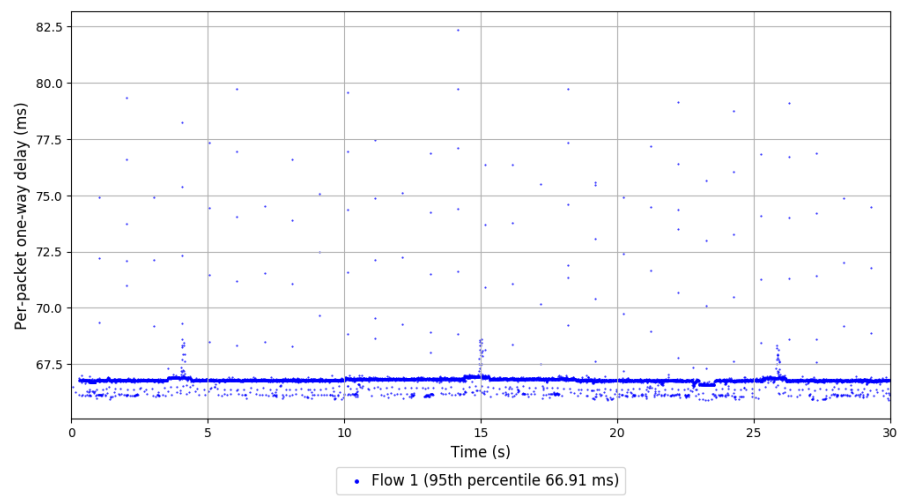
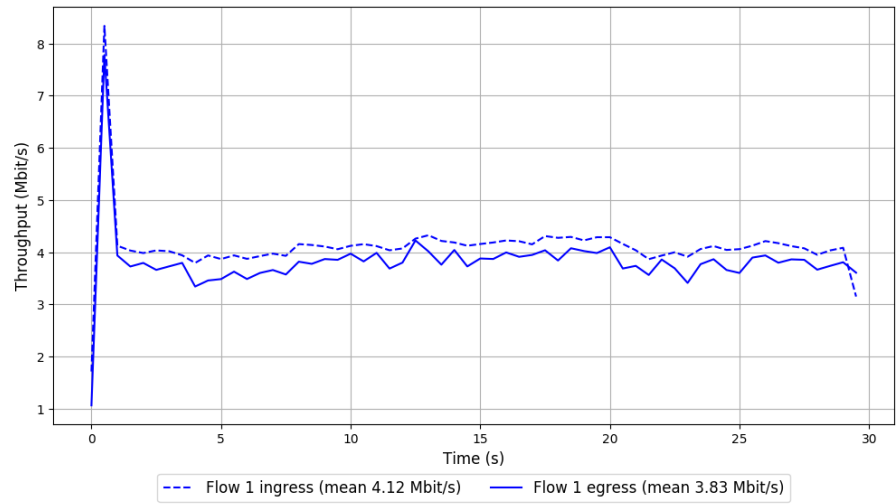
-- Flow 1:

Average throughput: 3.83 Mbit/s

95th percentile per-packet one-way delay: 66.913 ms

Loss rate: 7.09%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-02 14:51:54

End at: 2018-02-02 14:52:24

Local clock offset: -0.679 ms

Remote clock offset: 3.734 ms

Below is generated by plot.py at 2018-02-02 17:39:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.37 Mbit/s

95th percentile per-packet one-way delay: 67.913 ms

Loss rate: 3.47%

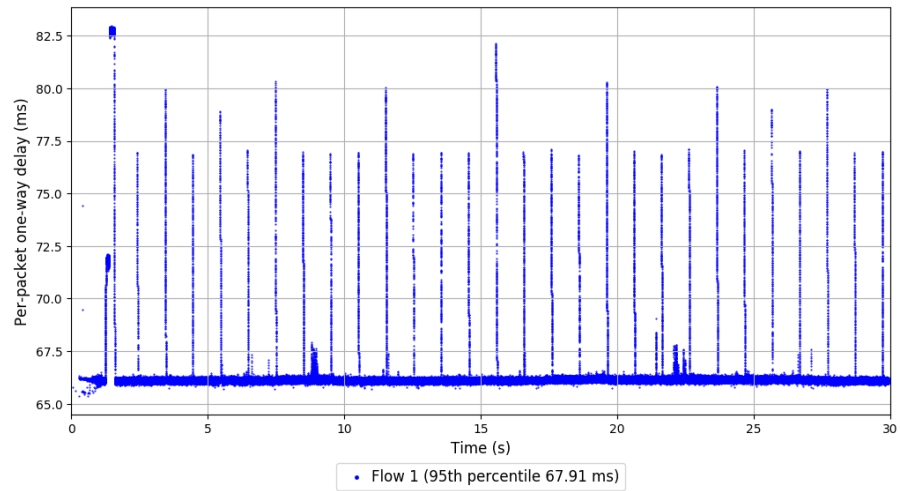
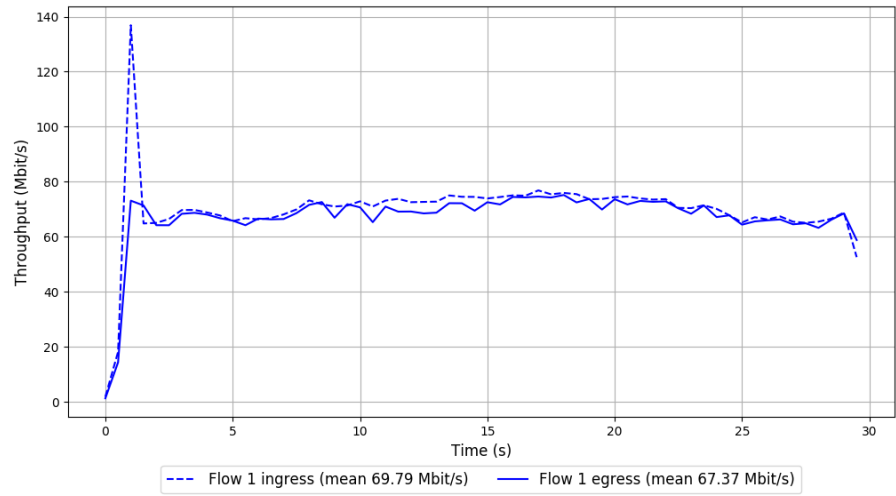
-- Flow 1:

Average throughput: 67.37 Mbit/s

95th percentile per-packet one-way delay: 67.913 ms

Loss rate: 3.47%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-02 15:15:50

End at: 2018-02-02 15:16:20

Local clock offset: -0.302 ms

Remote clock offset: 3.769 ms

Below is generated by plot.py at 2018-02-02 17:39:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.69 Mbit/s

95th percentile per-packet one-way delay: 65.997 ms

Loss rate: 4.69%

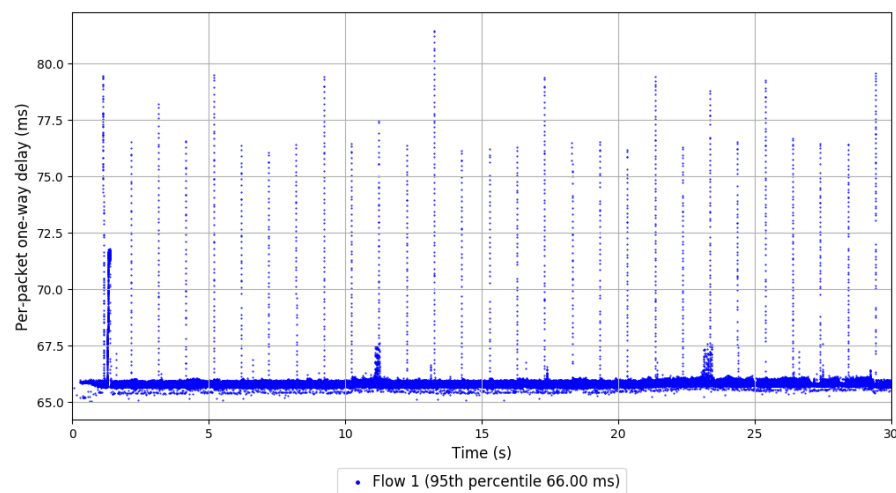
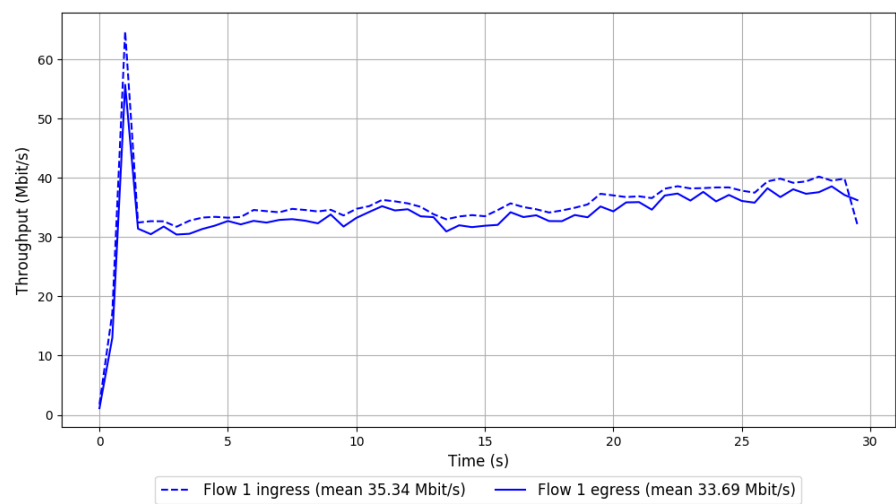
-- Flow 1:

Average throughput: 33.69 Mbit/s

95th percentile per-packet one-way delay: 65.997 ms

Loss rate: 4.69%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-02 15:39:42

End at: 2018-02-02 15:40:12

Local clock offset: -0.914 ms

Remote clock offset: 1.836 ms

Below is generated by plot.py at 2018-02-02 17:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.97 Mbit/s

95th percentile per-packet one-way delay: 76.141 ms

Loss rate: 1.03%

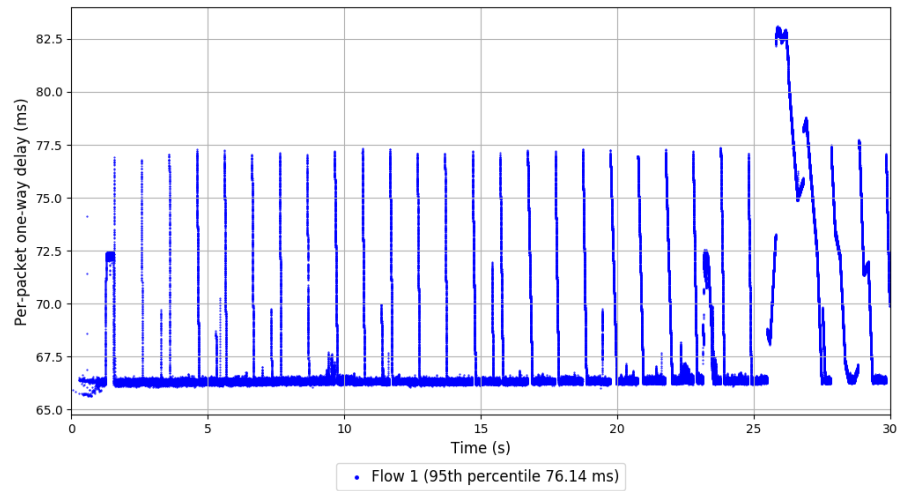
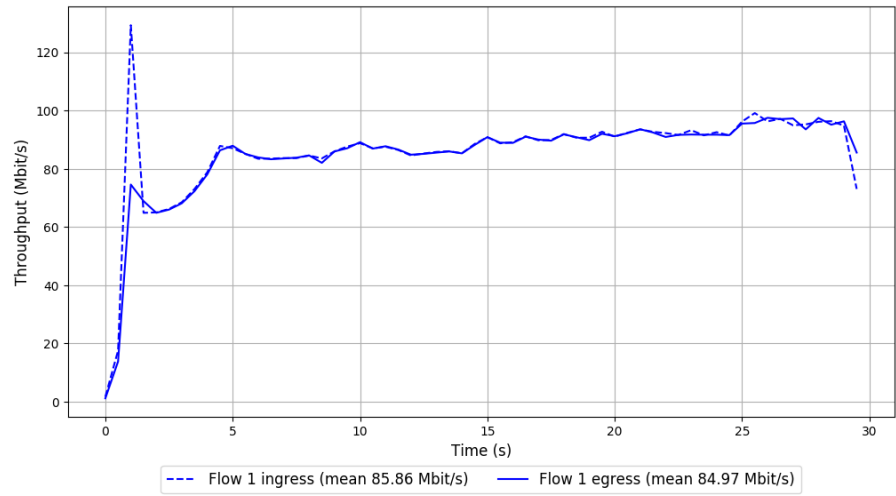
-- Flow 1:

Average throughput: 84.97 Mbit/s

95th percentile per-packet one-way delay: 76.141 ms

Loss rate: 1.03%

Run 7: Report of PCC — Data Link

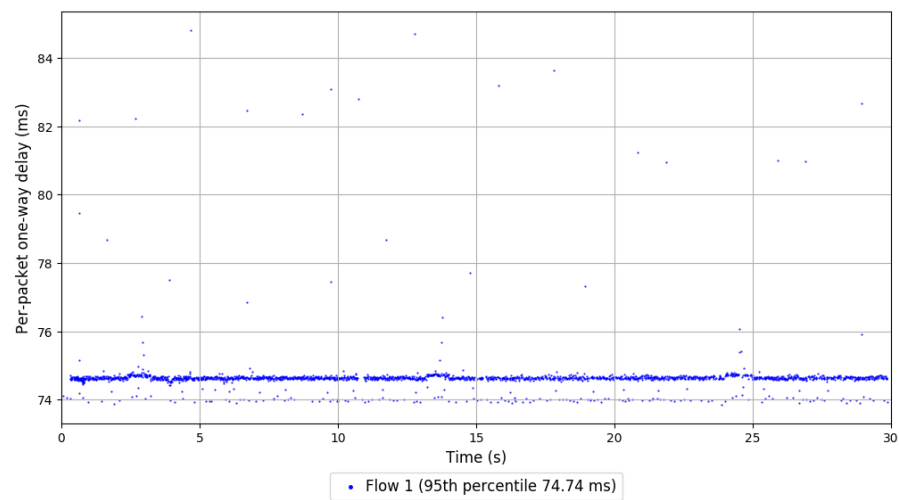
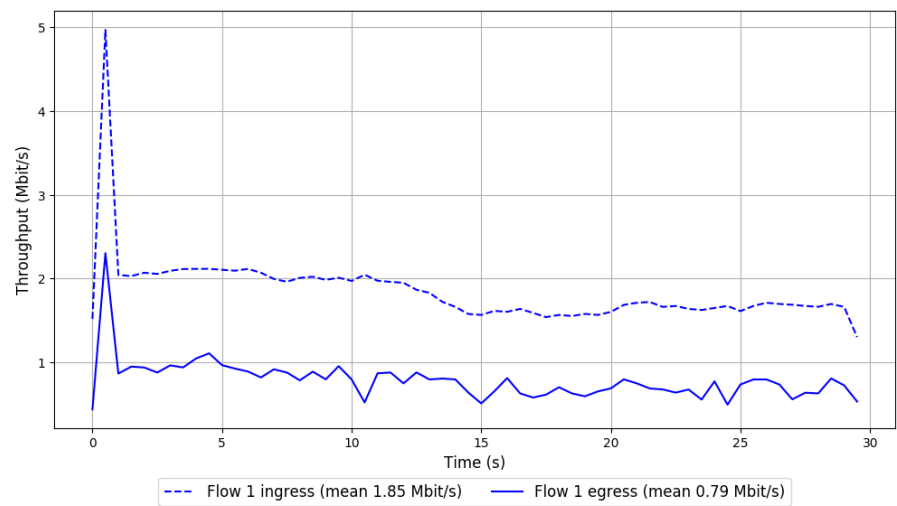


Run 8: Statistics of PCC

Start at: 2018-02-02 16:14:23
End at: 2018-02-02 16:14:53
Local clock offset: -0.506 ms
Remote clock offset: -0.089 ms

Below is generated by plot.py at 2018-02-02 17:39:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.79 Mbit/s
95th percentile per-packet one-way delay: 74.738 ms
Loss rate: 57.61%
-- Flow 1:
Average throughput: 0.79 Mbit/s
95th percentile per-packet one-way delay: 74.738 ms
Loss rate: 57.61%

Run 8: Report of PCC — Data Link

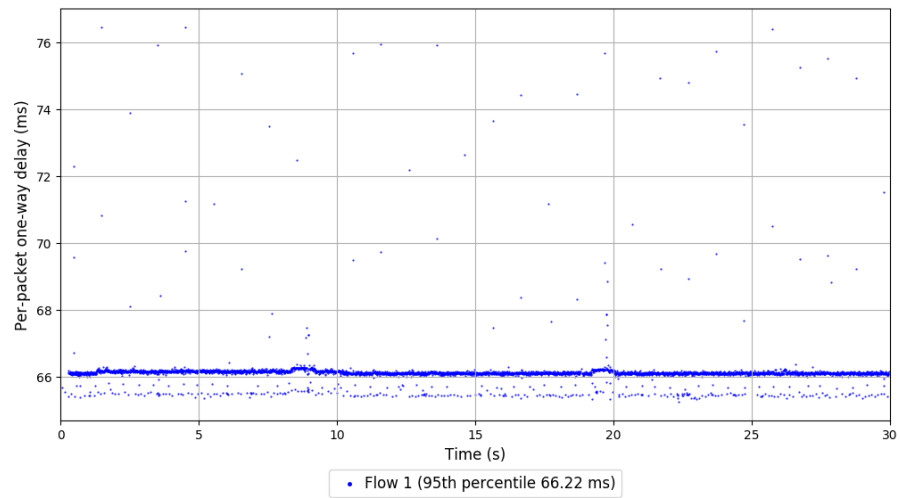
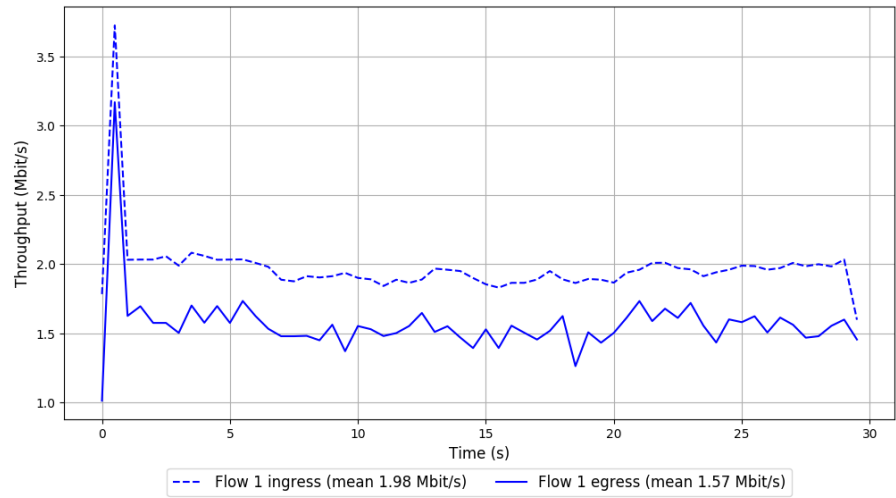


Run 9: Statistics of PCC

Start at: 2018-02-02 16:46:09
End at: 2018-02-02 16:46:39
Local clock offset: -1.134 ms
Remote clock offset: -0.231 ms

Below is generated by plot.py at 2018-02-02 17:39:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.57 Mbit/s
95th percentile per-packet one-way delay: 66.217 ms
Loss rate: 20.56%
-- Flow 1:
Average throughput: 1.57 Mbit/s
95th percentile per-packet one-way delay: 66.217 ms
Loss rate: 20.56%

Run 9: Report of PCC — Data Link

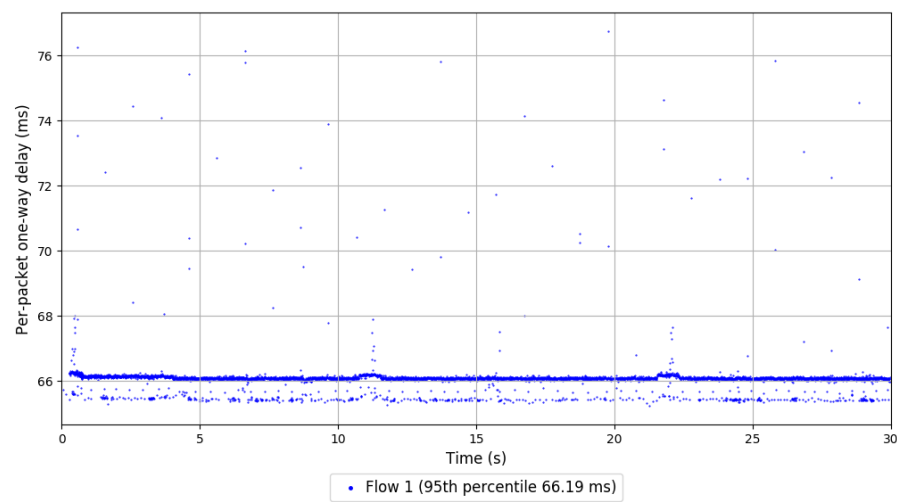
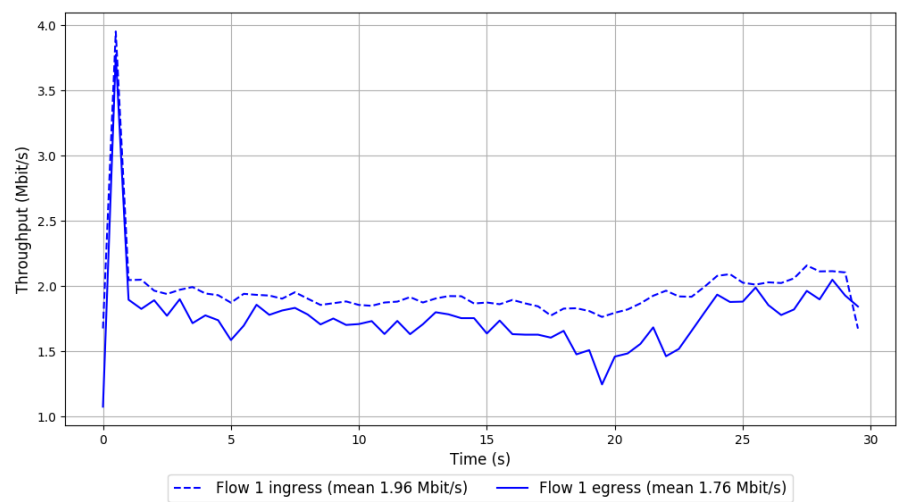


Run 10: Statistics of PCC

Start at: 2018-02-02 17:10:15
End at: 2018-02-02 17:10:45
Local clock offset: -0.799 ms
Remote clock offset: -0.216 ms

Below is generated by plot.py at 2018-02-02 17:39:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.76 Mbit/s
95th percentile per-packet one-way delay: 66.194 ms
Loss rate: 10.34%
-- Flow 1:
Average throughput: 1.76 Mbit/s
95th percentile per-packet one-way delay: 66.194 ms
Loss rate: 10.34%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-02-02 13:04:14

End at: 2018-02-02 13:04:44

Local clock offset: -0.591 ms

Remote clock offset: 0.994 ms

Below is generated by plot.py at 2018-02-02 17:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 65.939 ms

Loss rate: 5.75%

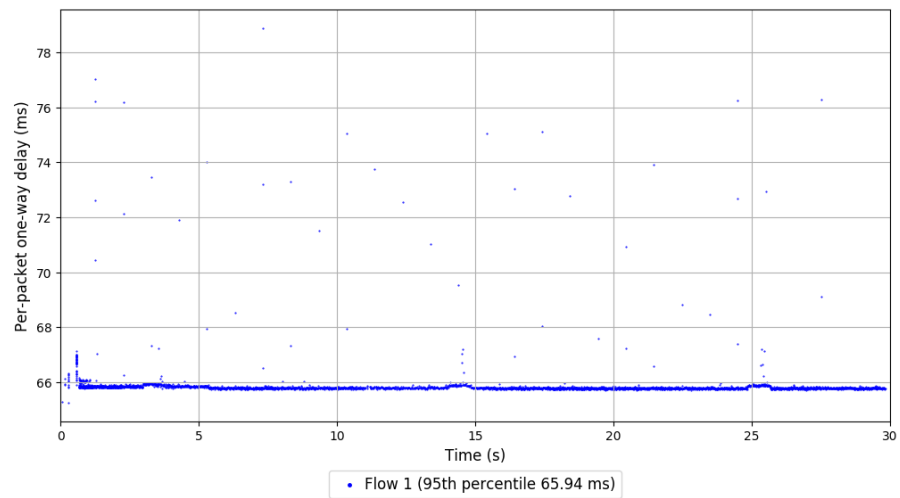
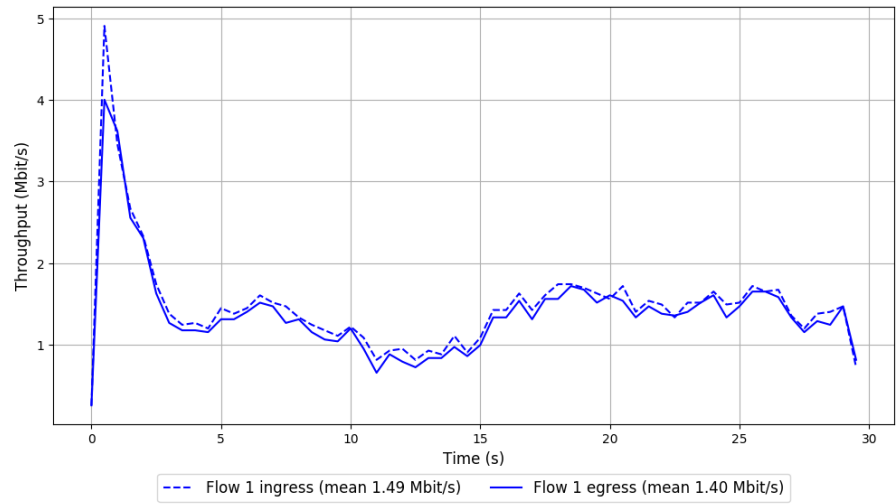
-- Flow 1:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 65.939 ms

Loss rate: 5.75%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-02 13:28:11

End at: 2018-02-02 13:28:41

Local clock offset: -0.458 ms

Remote clock offset: 1.652 ms

Below is generated by plot.py at 2018-02-02 17:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.94 Mbit/s

95th percentile per-packet one-way delay: 65.791 ms

Loss rate: 10.91%

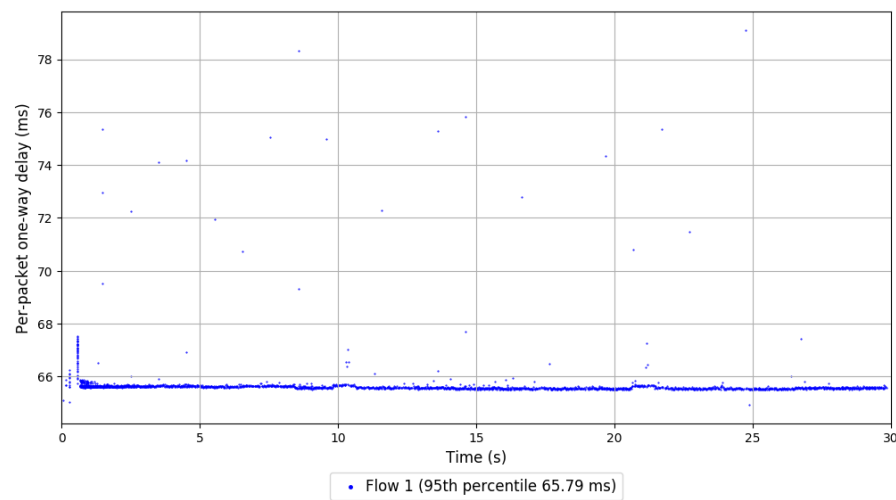
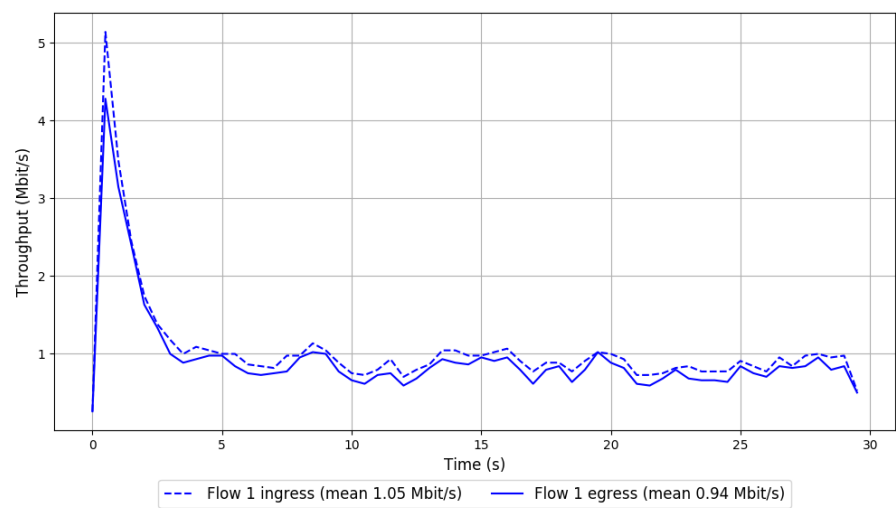
-- Flow 1:

Average throughput: 0.94 Mbit/s

95th percentile per-packet one-way delay: 65.791 ms

Loss rate: 10.91%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-02 13:52:07

End at: 2018-02-02 13:52:37

Local clock offset: -0.981 ms

Remote clock offset: 2.434 ms

Below is generated by plot.py at 2018-02-02 17:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.97 Mbit/s

95th percentile per-packet one-way delay: 66.440 ms

Loss rate: 8.07%

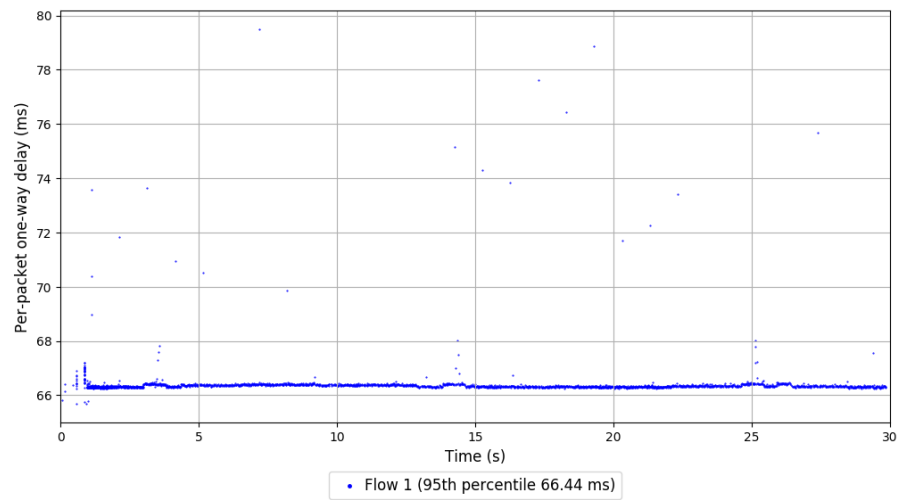
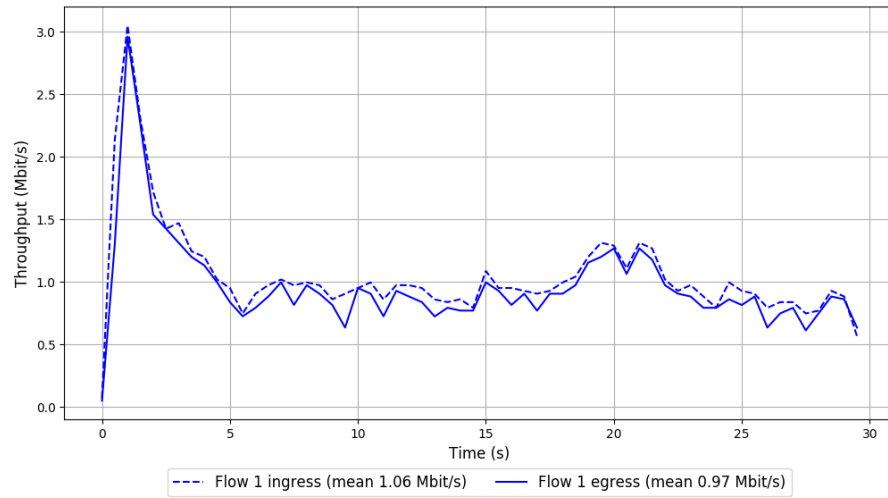
-- Flow 1:

Average throughput: 0.97 Mbit/s

95th percentile per-packet one-way delay: 66.440 ms

Loss rate: 8.07%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-02 14:15:57

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

Local clock offset: -3.369 ms

Remote clock offset: 3.092 ms

Below is generated by plot.py at 2018-02-02 17:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.99 Mbit/s

95th percentile per-packet one-way delay: 68.592 ms

Loss rate: 8.27%

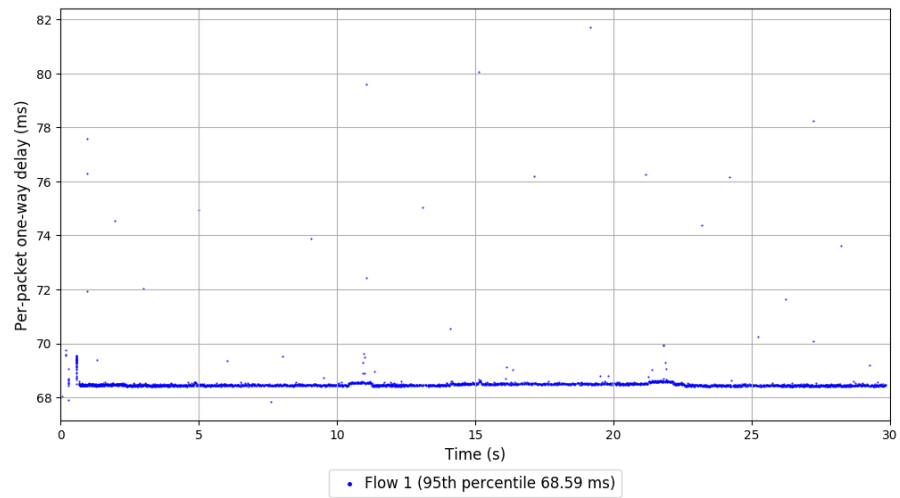
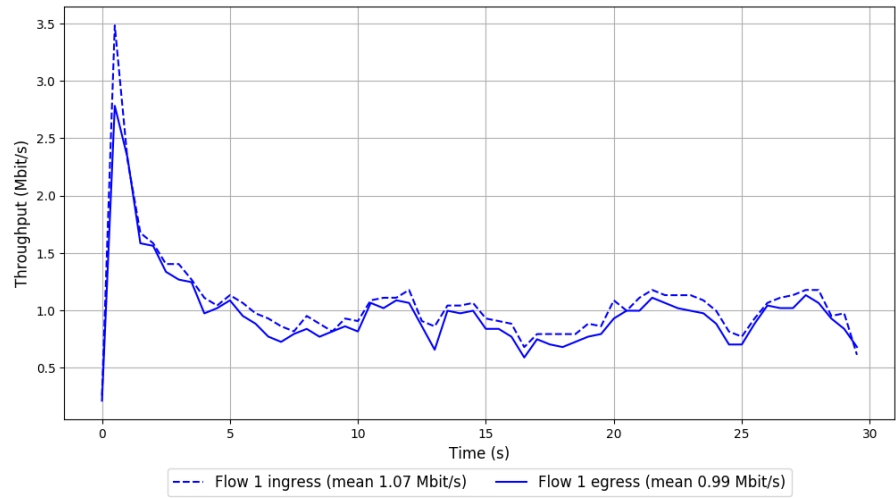
-- Flow 1:

Average throughput: 0.99 Mbit/s

95th percentile per-packet one-way delay: 68.592 ms

Loss rate: 8.27%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-02 14:39:58

End at: 2018-02-02 14:40:28

Local clock offset: -0.542 ms

Remote clock offset: 3.674 ms

Below is generated by plot.py at 2018-02-02 17:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.13 Mbit/s

95th percentile per-packet one-way delay: 65.770 ms

Loss rate: 6.15%

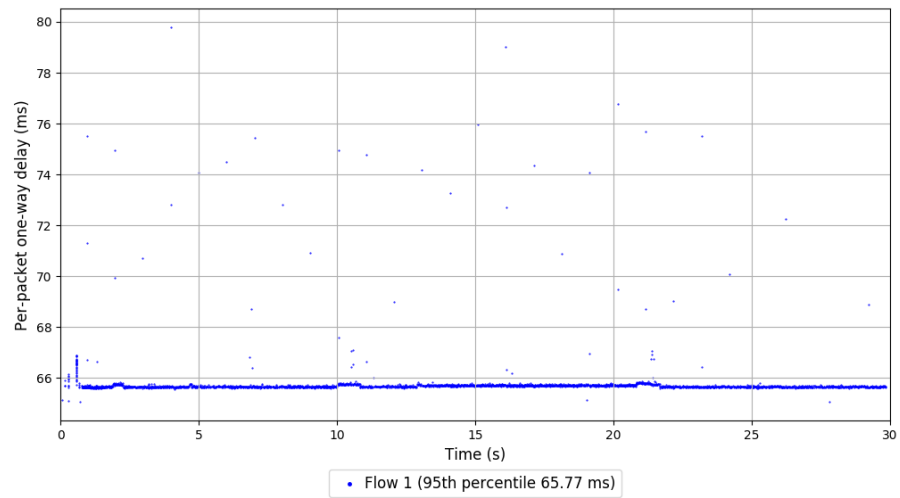
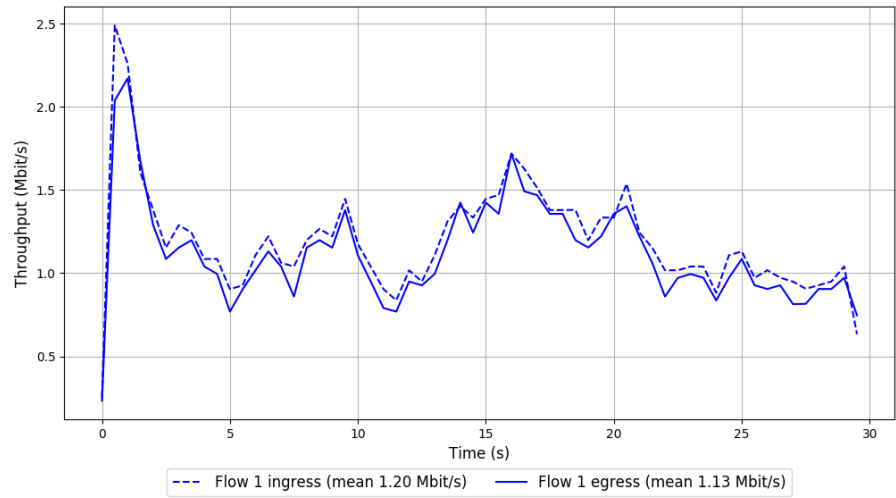
-- Flow 1:

Average throughput: 1.13 Mbit/s

95th percentile per-packet one-way delay: 65.770 ms

Loss rate: 6.15%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-02 15:04:00

End at: 2018-02-02 15:04:30

Local clock offset: -0.996 ms

Remote clock offset: 3.876 ms

Below is generated by plot.py at 2018-02-02 17:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.53 Mbit/s

95th percentile per-packet one-way delay: 66.626 ms

Loss rate: 1.33%

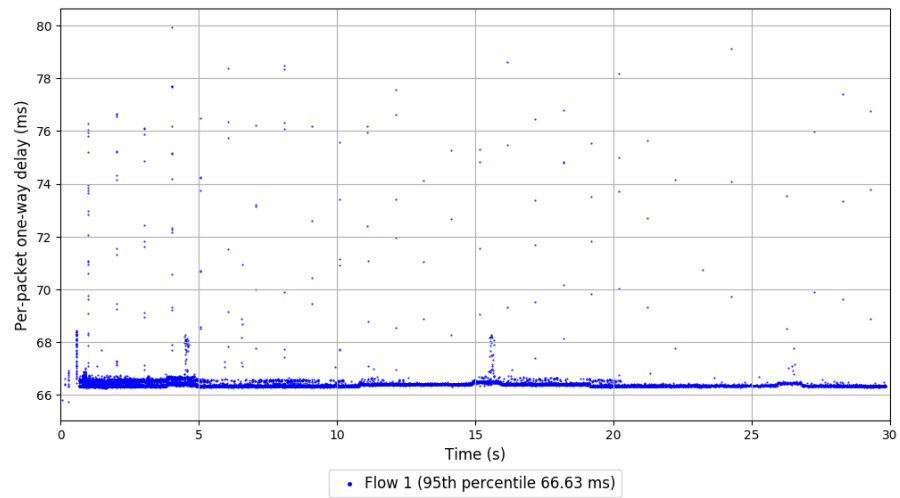
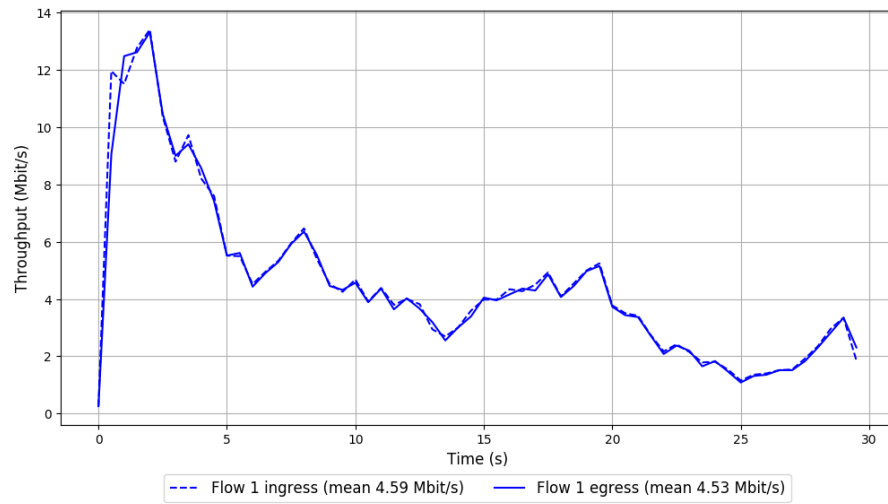
-- Flow 1:

Average throughput: 4.53 Mbit/s

95th percentile per-packet one-way delay: 66.626 ms

Loss rate: 1.33%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-02 15:27:48

End at: 2018-02-02 15:28:18

Local clock offset: -0.797 ms

Remote clock offset: 2.789 ms

Below is generated by plot.py at 2018-02-02 17:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.43 Mbit/s

95th percentile per-packet one-way delay: 67.419 ms

Loss rate: 0.92%

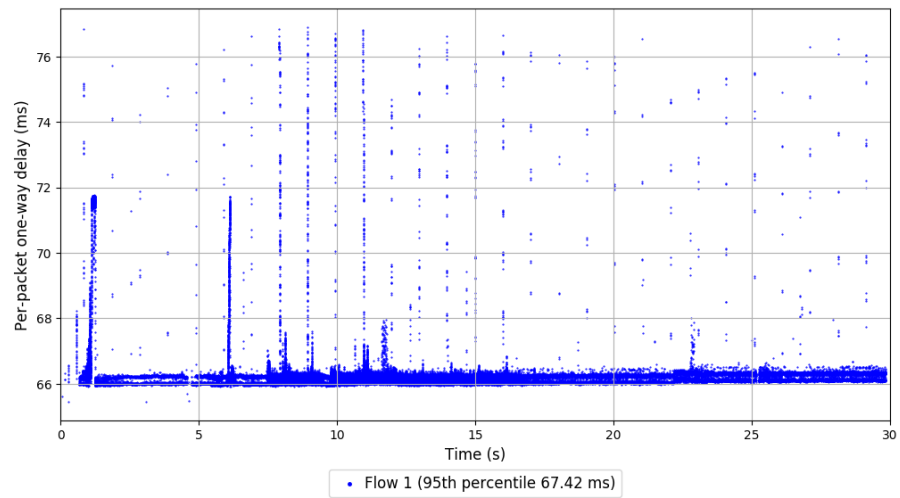
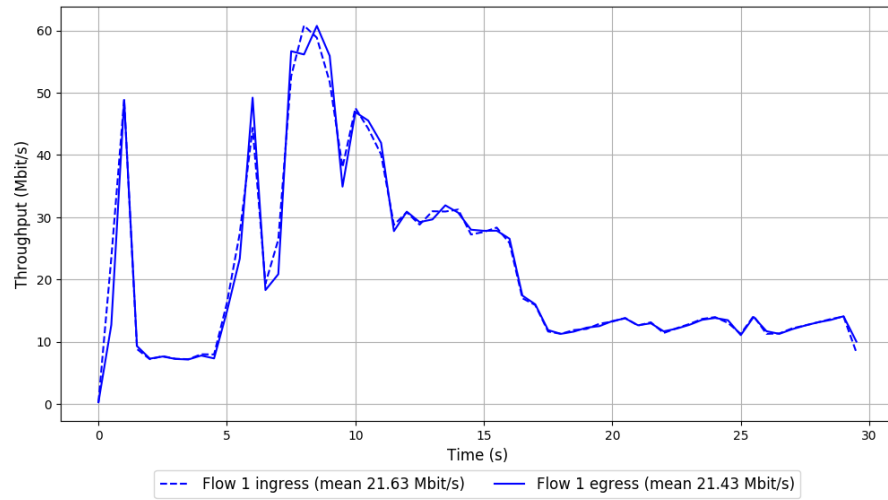
-- Flow 1:

Average throughput: 21.43 Mbit/s

95th percentile per-packet one-way delay: 67.419 ms

Loss rate: 0.92%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-02 15:51:51

End at: 2018-02-02 15:52:21

Local clock offset: -0.809 ms

Remote clock offset: 1.101 ms

Below is generated by plot.py at 2018-02-02 17:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.37 Mbit/s

95th percentile per-packet one-way delay: 66.806 ms

Loss rate: 0.62%

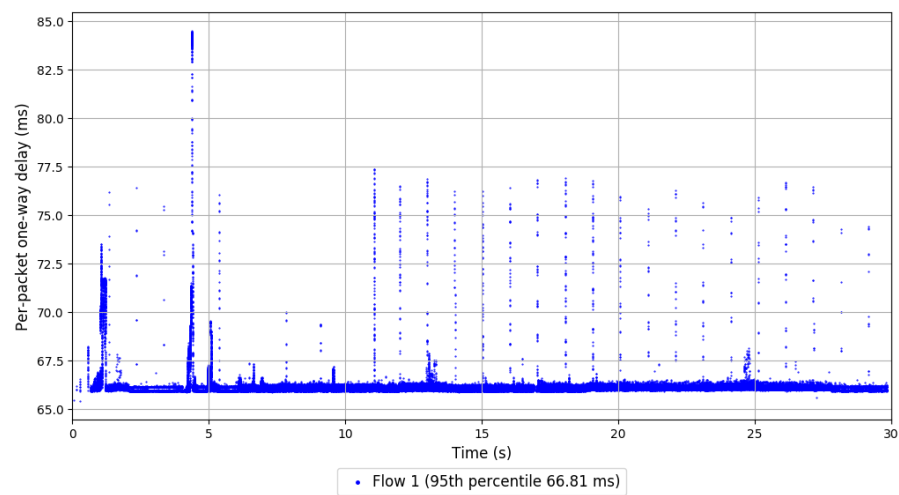
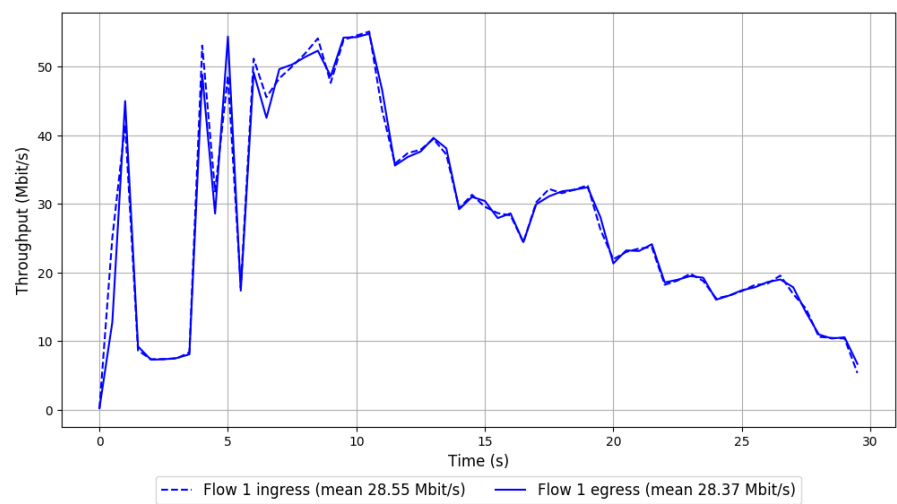
-- Flow 1:

Average throughput: 28.37 Mbit/s

95th percentile per-packet one-way delay: 66.806 ms

Loss rate: 0.62%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-02 16:33:55

End at: 2018-02-02 16:34:25

Local clock offset: -0.407 ms

Remote clock offset: -0.32 ms

Below is generated by plot.py at 2018-02-02 17:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 65.231 ms

Loss rate: 25.68%

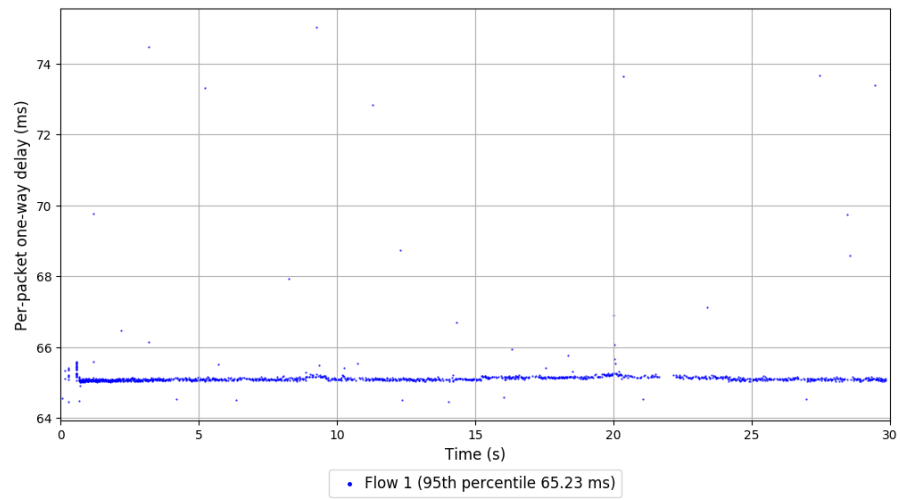
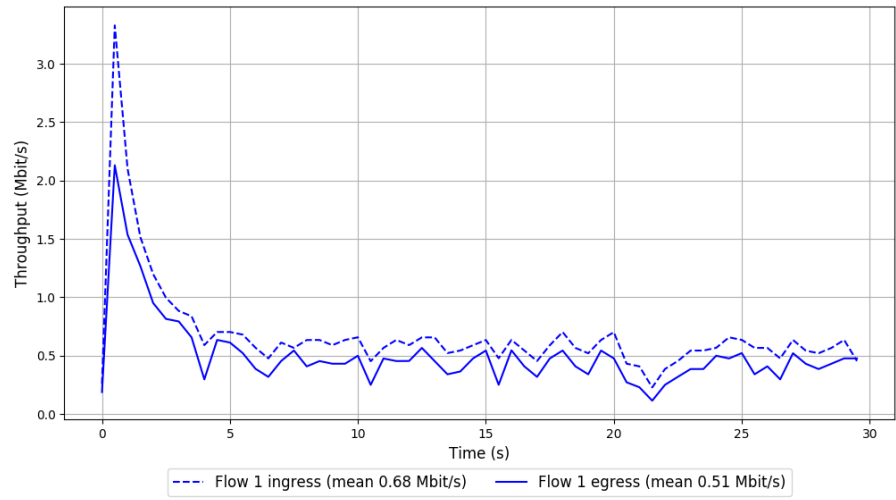
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 65.231 ms

Loss rate: 25.68%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-02-02 16:58:20

End at: 2018-02-02 16:58:50

Local clock offset: -0.262 ms

Remote clock offset: -0.25 ms

Below is generated by plot.py at 2018-02-02 17:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.85 Mbit/s

95th percentile per-packet one-way delay: 65.387 ms

Loss rate: 11.40%

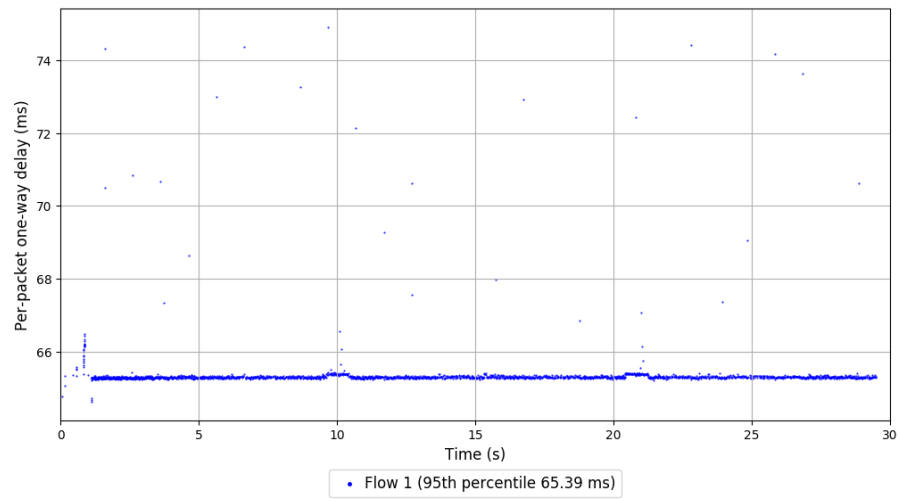
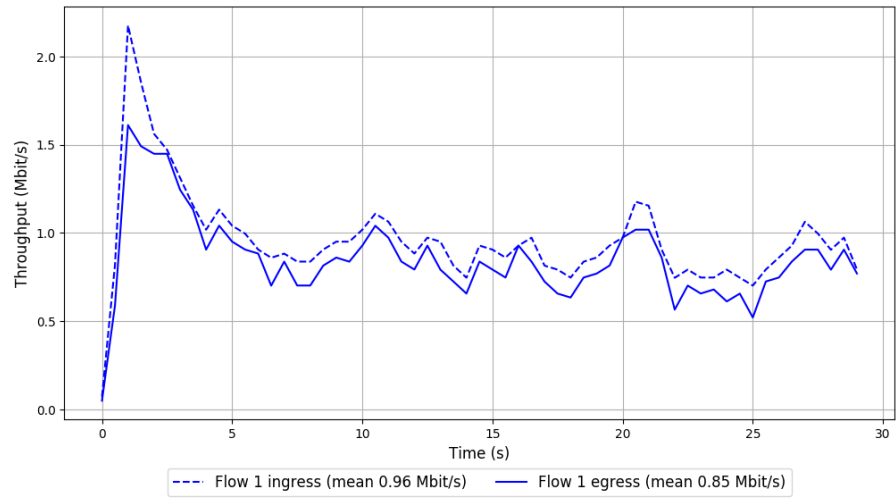
-- Flow 1:

Average throughput: 0.85 Mbit/s

95th percentile per-packet one-way delay: 65.387 ms

Loss rate: 11.40%

Run 10: Report of QUIC Cubic — Data Link

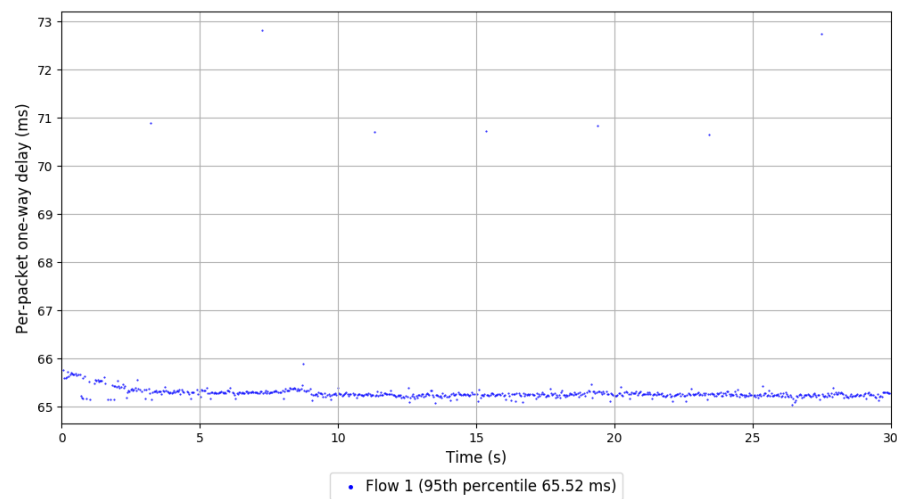
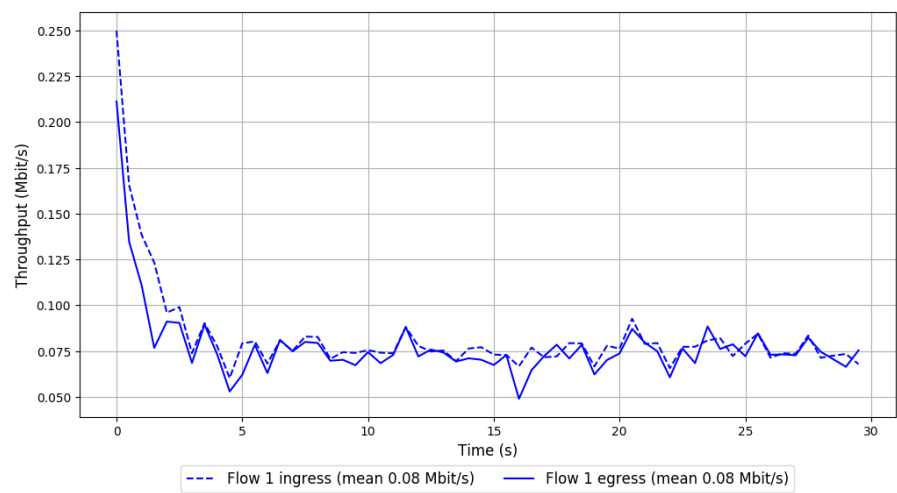


```
Run 1: Statistics of SCReAM

Start at: 2018-02-02 13:08:11
End at: 2018-02-02 13:08:41
Local clock offset: -0.296 ms
Remote clock offset: 1.077 ms

# Below is generated by plot.py at 2018-02-02 17:39:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 65.518 ms
Loss rate: 6.38%
-- Flow 1:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 65.518 ms
Loss rate: 6.38%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-02-02 13:32:08

End at: 2018-02-02 13:32:38

Local clock offset: -0.743 ms

Remote clock offset: 1.856 ms

Below is generated by plot.py at 2018-02-02 17:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 65.888 ms

Loss rate: 6.74%

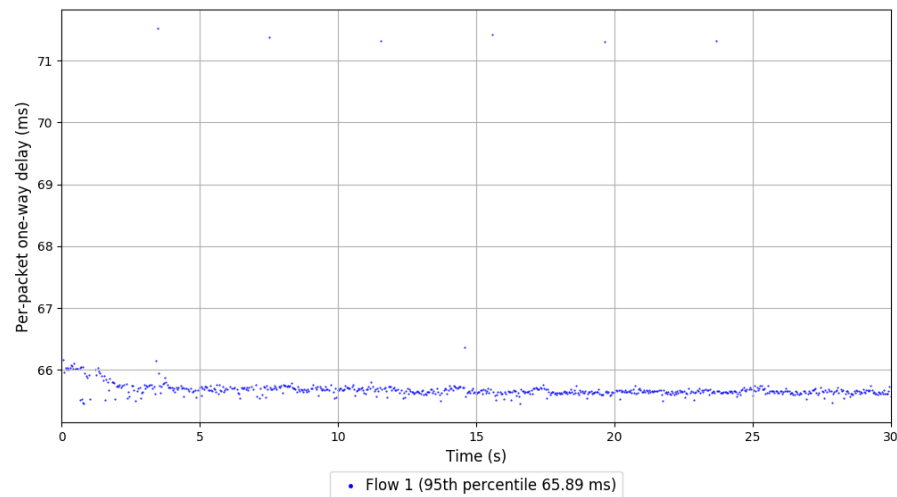
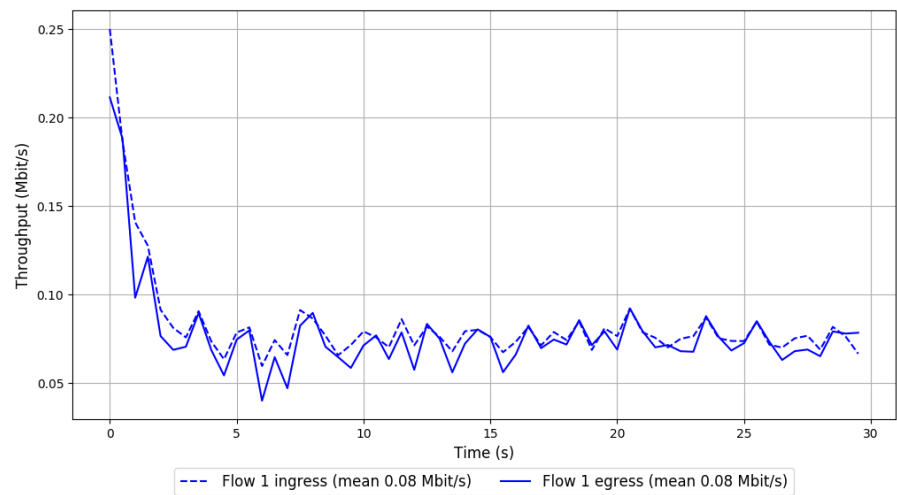
-- Flow 1:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 65.888 ms

Loss rate: 6.74%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-02-02 13:56:03

End at: 2018-02-02 13:56:33

Local clock offset: -0.808 ms

Remote clock offset: 2.518 ms

Below is generated by plot.py at 2018-02-02 17:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 66.129 ms

Loss rate: 8.83%

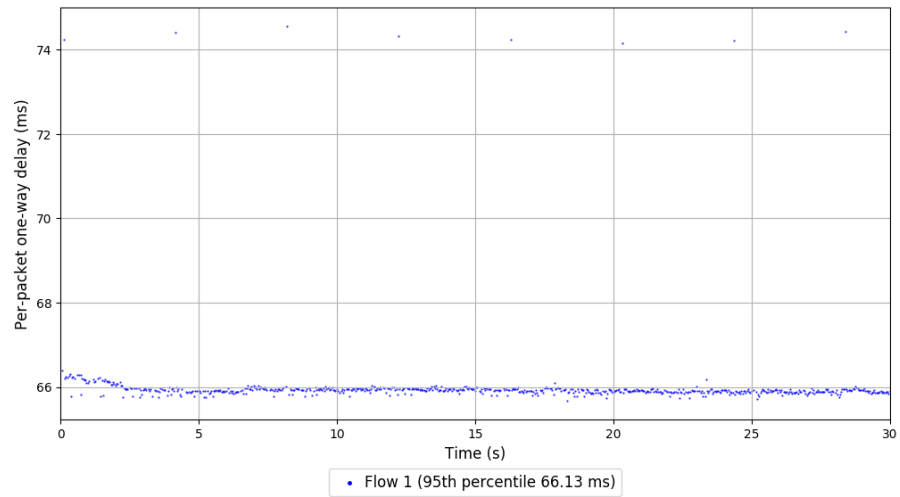
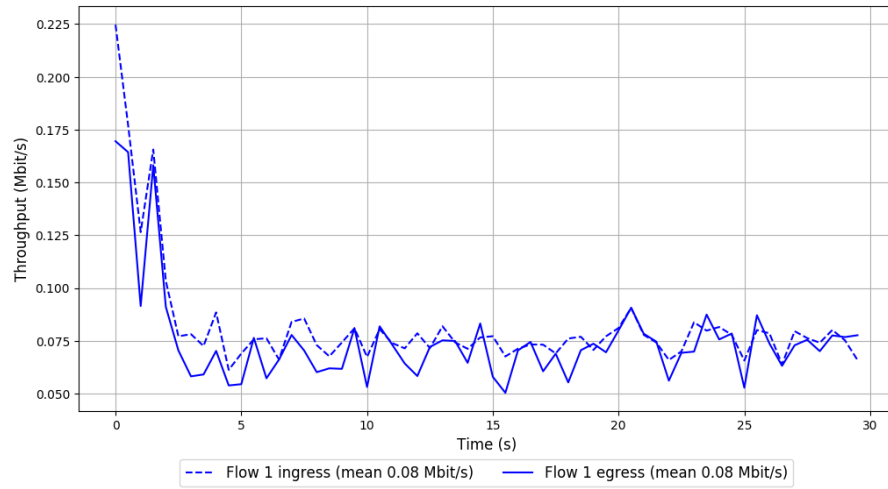
-- Flow 1:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 66.129 ms

Loss rate: 8.83%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-02-02 14:19:53

End at: 2018-02-02 14:20:23

Local clock offset: -0.563 ms

Remote clock offset: 3.212 ms

Below is generated by plot.py at 2018-02-02 17:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 66.029 ms

Loss rate: 9.16%

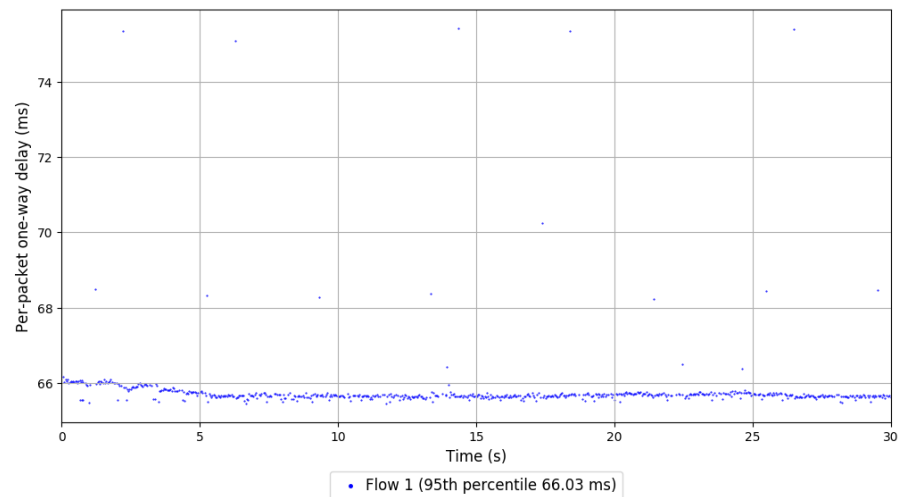
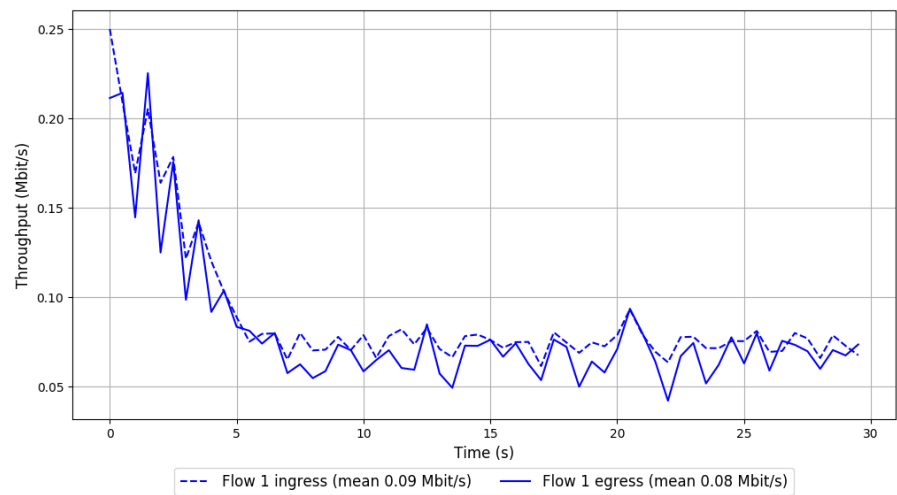
-- Flow 1:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 66.029 ms

Loss rate: 9.16%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-02 14:43:57

End at: 2018-02-02 14:44:27

Local clock offset: -1.048 ms

Remote clock offset: 3.686 ms

Below is generated by plot.py at 2018-02-02 17:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 66.267 ms

Loss rate: 1.73%

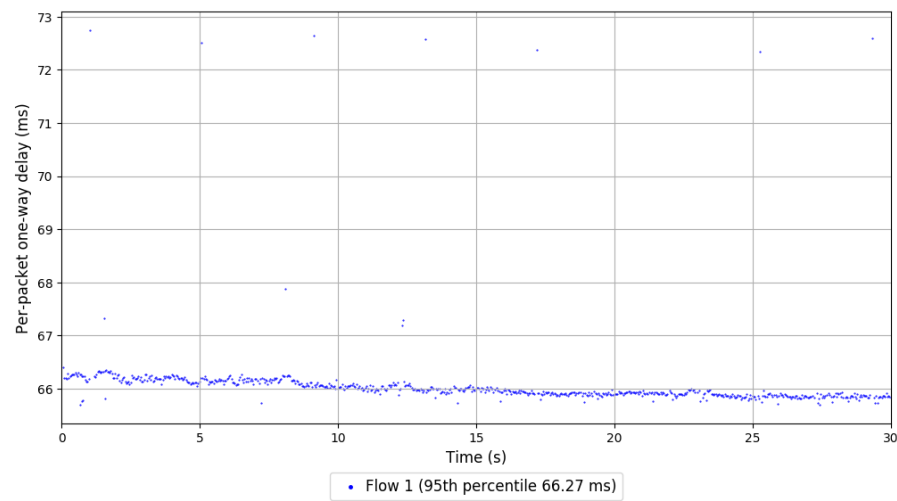
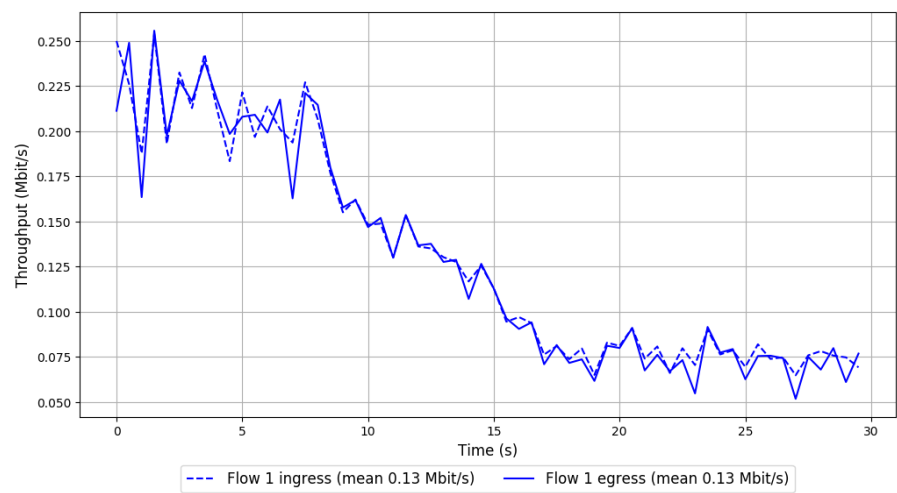
-- Flow 1:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 66.267 ms

Loss rate: 1.73%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-02-02 15:07:56

End at: 2018-02-02 15:08:26

Local clock offset: -0.811 ms

Remote clock offset: 3.898 ms

Below is generated by plot.py at 2018-02-02 17:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 66.215 ms

Loss rate: 5.19%

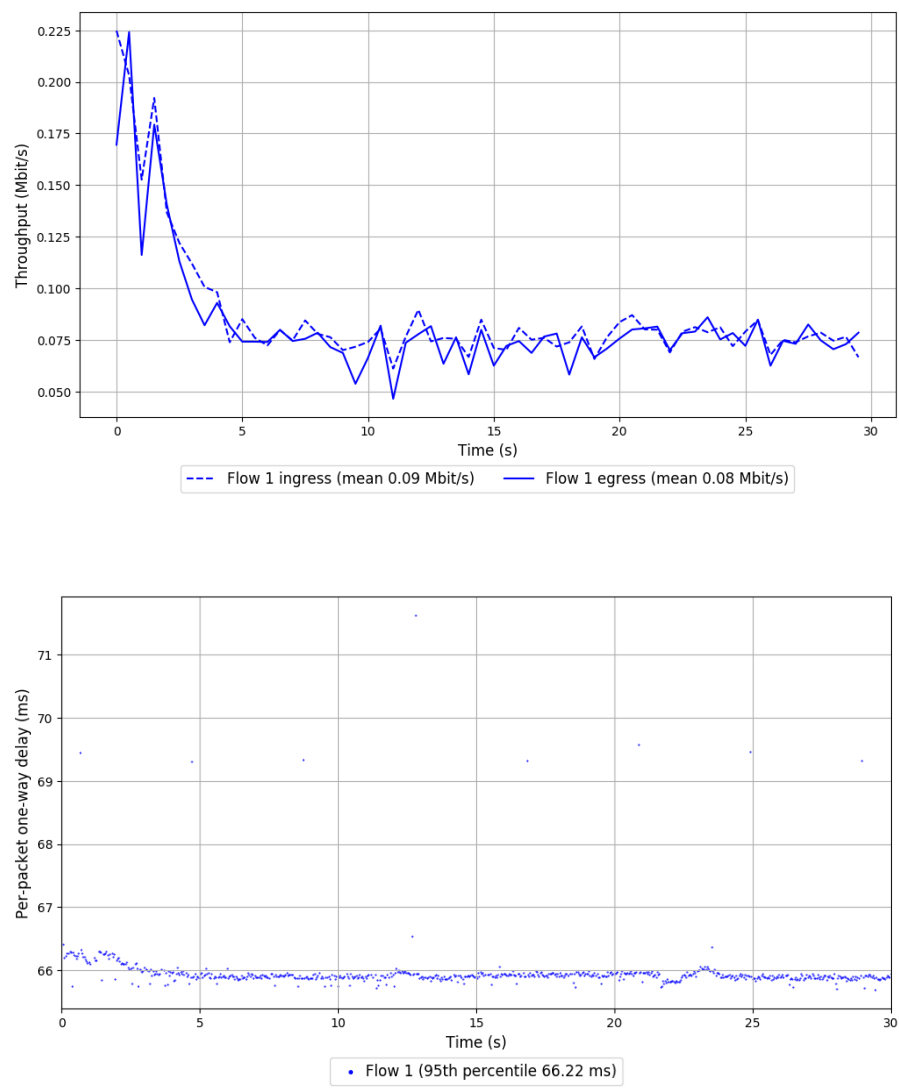
-- Flow 1:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 66.215 ms

Loss rate: 5.19%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-02-02 15:31:45

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

Local clock offset: -0.72 ms

Remote clock offset: 2.542 ms

Below is generated by plot.py at 2018-02-02 17:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 66.203 ms

Loss rate: 0.00%

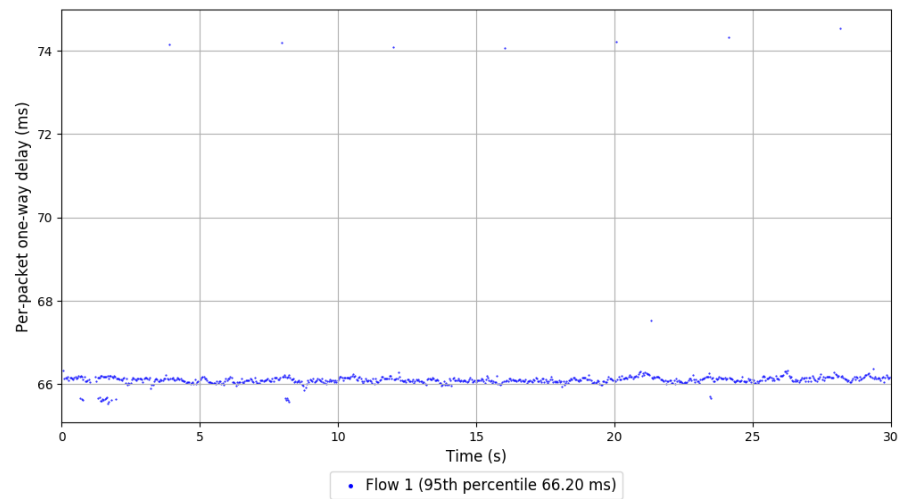
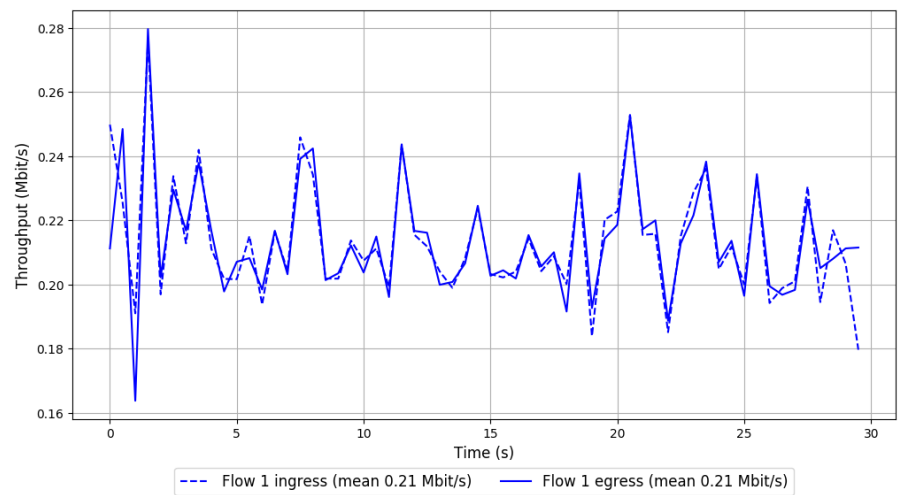
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 66.203 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-02 15:55:49

End at: 2018-02-02 15:56:19

Local clock offset: -0.799 ms

Remote clock offset: 1.067 ms

Below is generated by plot.py at 2018-02-02 17:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 66.242 ms

Loss rate: 0.00%

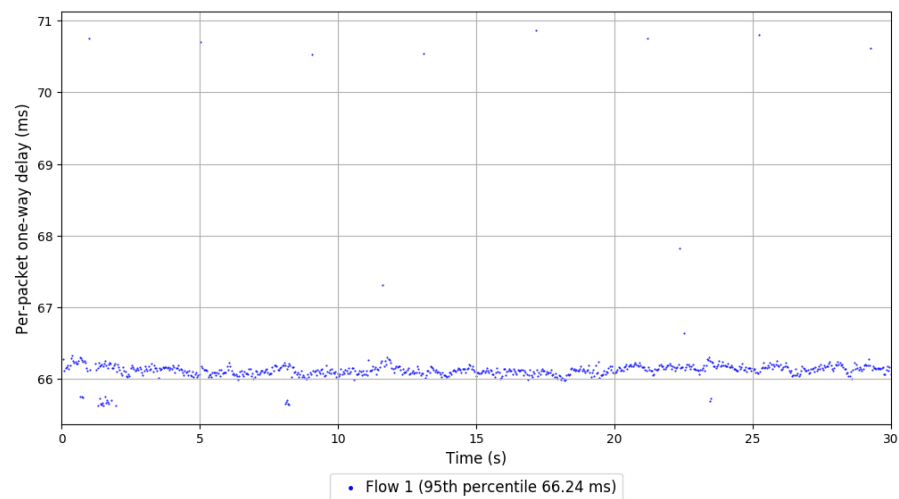
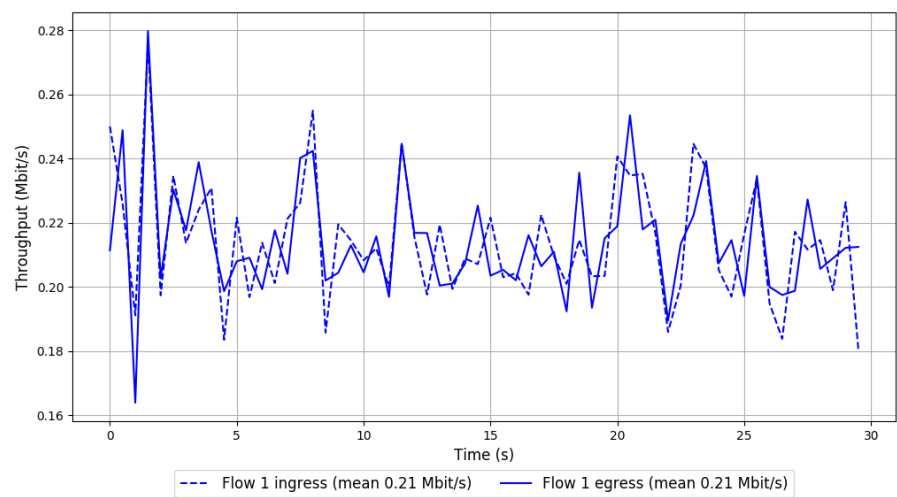
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 66.242 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-02-02 16:37:59

End at: 2018-02-02 16:38:29

Local clock offset: -0.999 ms

Remote clock offset: -0.28 ms

Below is generated by plot.py at 2018-02-02 17:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 66.014 ms

Loss rate: 6.41%

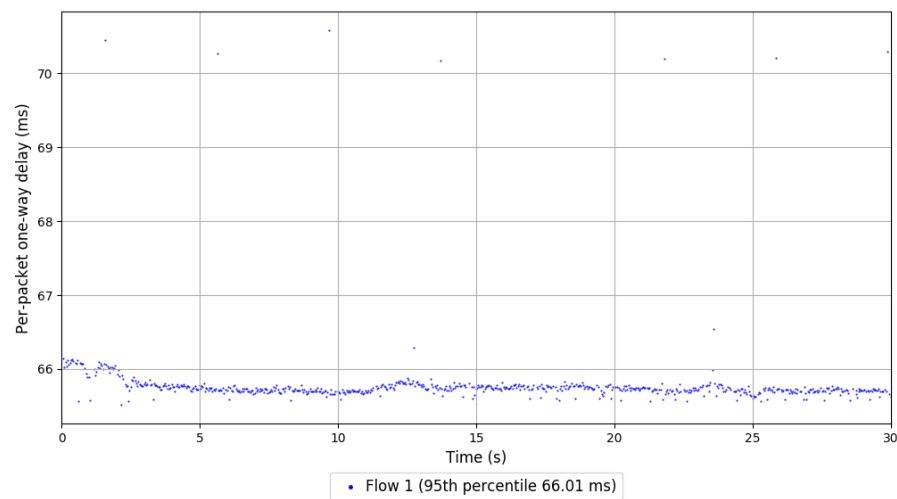
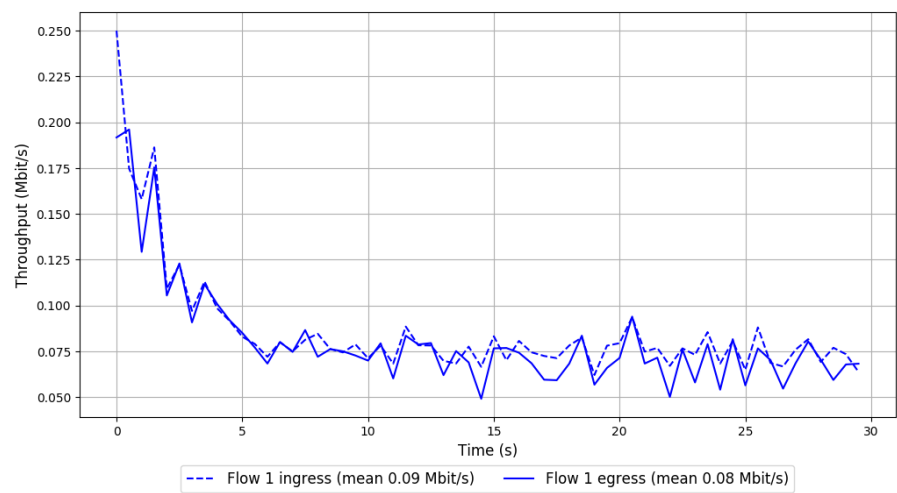
-- Flow 1:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 66.014 ms

Loss rate: 6.41%

Run 9: Report of SReAM — Data Link

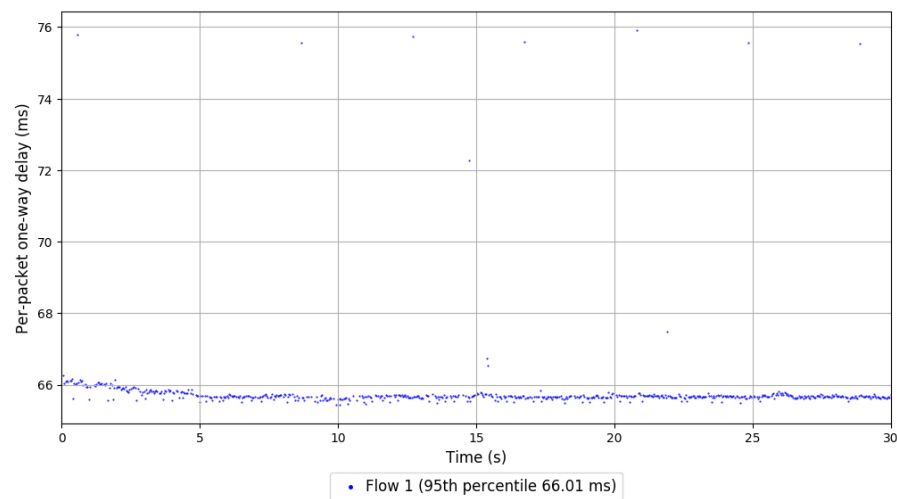
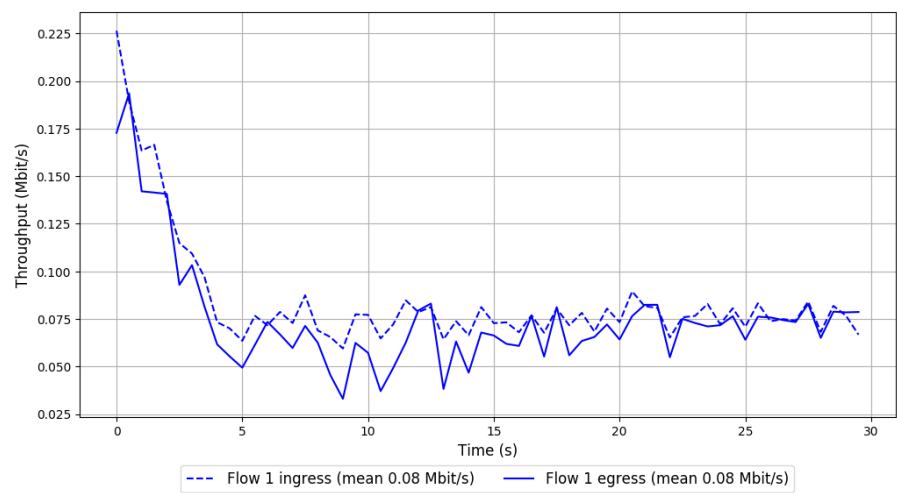


Run 10: Statistics of SReAM

Start at: 2018-02-02 17:02:15
End at: 2018-02-02 17:02:45
Local clock offset: -0.866 ms
Remote clock offset: -0.202 ms

Below is generated by plot.py at 2018-02-02 17:39:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 66.012 ms
Loss rate: 11.71%
-- Flow 1:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 66.012 ms
Loss rate: 11.71%

Run 10: Report of SCReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-02-02 13:05:31

End at: 2018-02-02 13:06:01

Local clock offset: -0.493 ms

Remote clock offset: 0.992 ms

Below is generated by plot.py at 2018-02-02 17:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.91 Mbit/s

95th percentile per-packet one-way delay: 66.223 ms

Loss rate: 7.94%

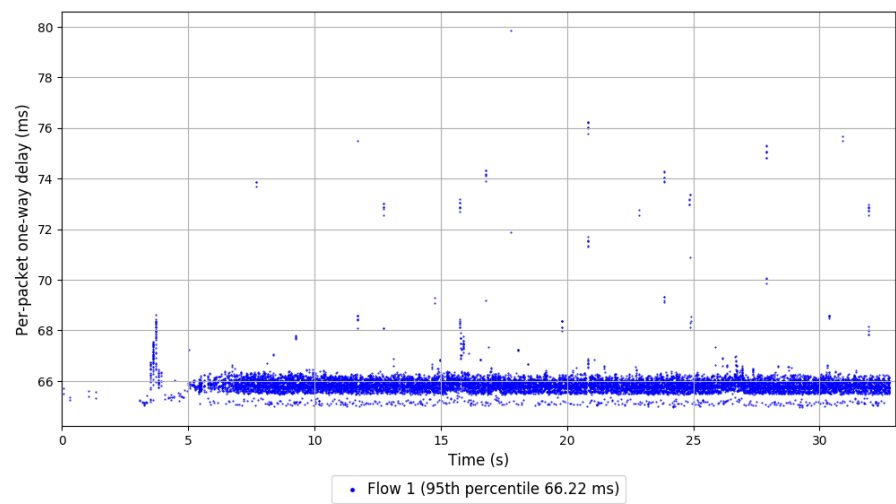
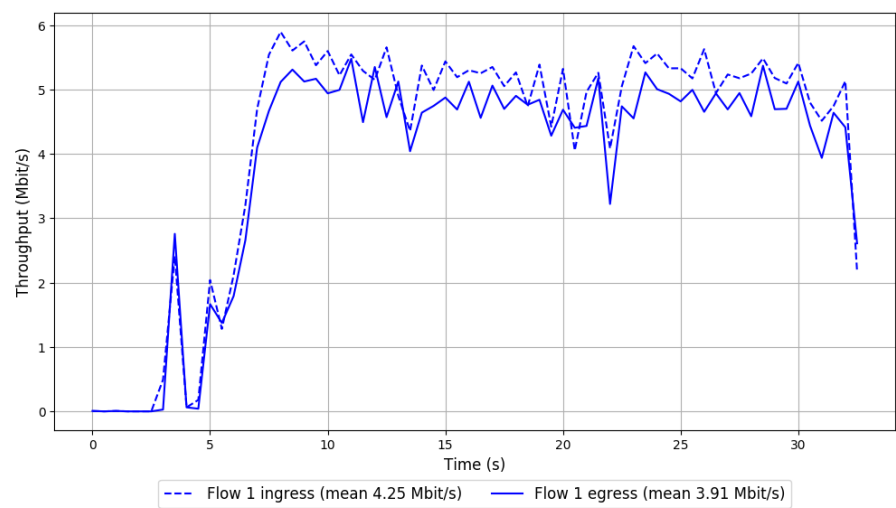
-- Flow 1:

Average throughput: 3.91 Mbit/s

95th percentile per-packet one-way delay: 66.223 ms

Loss rate: 7.94%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-02 13:29:29

End at: 2018-02-02 13:29:59

Local clock offset: -0.602 ms

Remote clock offset: 1.754 ms

Below is generated by plot.py at 2018-02-02 17:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.34 Mbit/s

95th percentile per-packet one-way delay: 66.548 ms

Loss rate: 9.59%

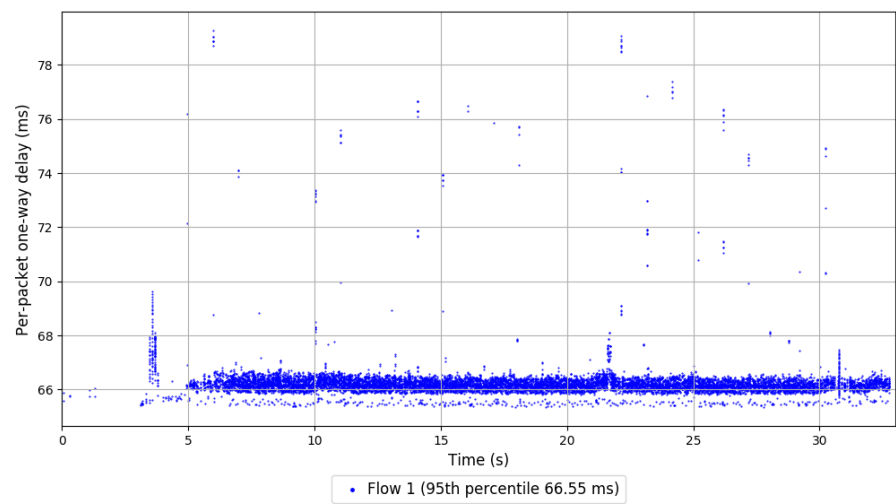
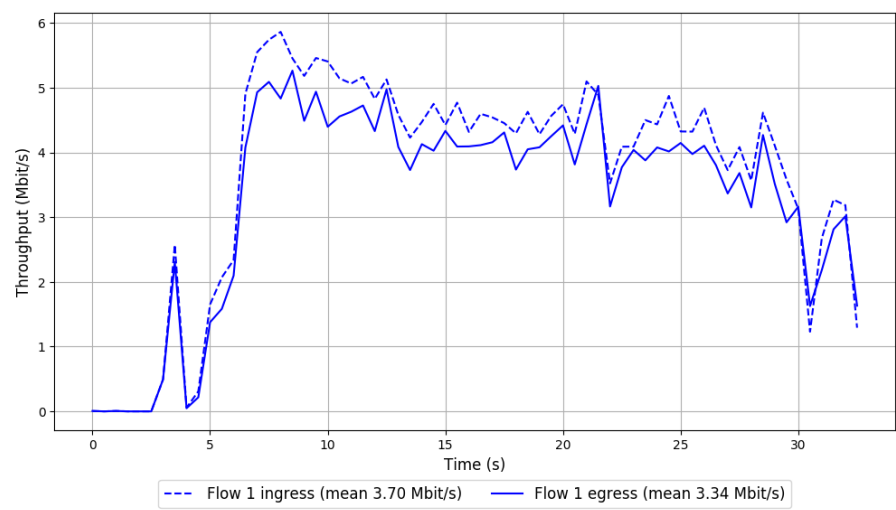
-- Flow 1:

Average throughput: 3.34 Mbit/s

95th percentile per-packet one-way delay: 66.548 ms

Loss rate: 9.59%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-02 13:53:24

End at: 2018-02-02 13:53:54

Local clock offset: -0.279 ms

Remote clock offset: 2.371 ms

Below is generated by plot.py at 2018-02-02 17:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 65.844 ms

Loss rate: 9.50%

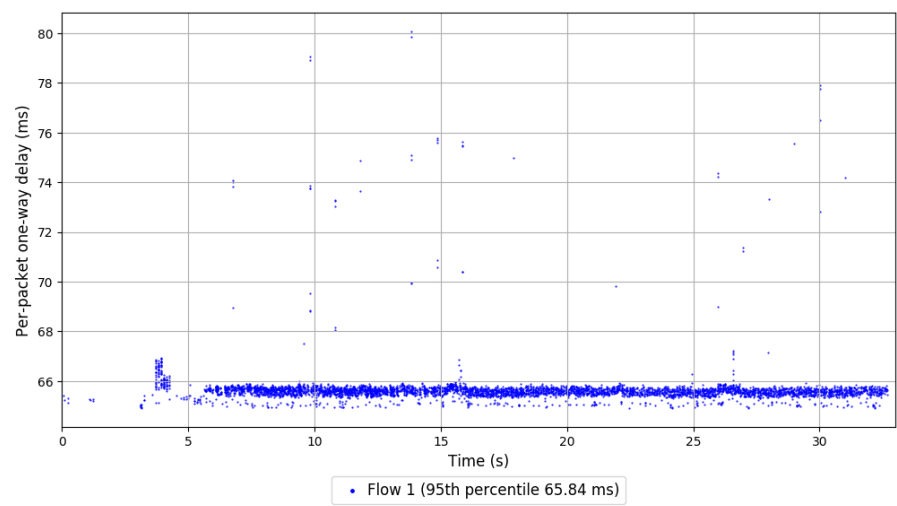
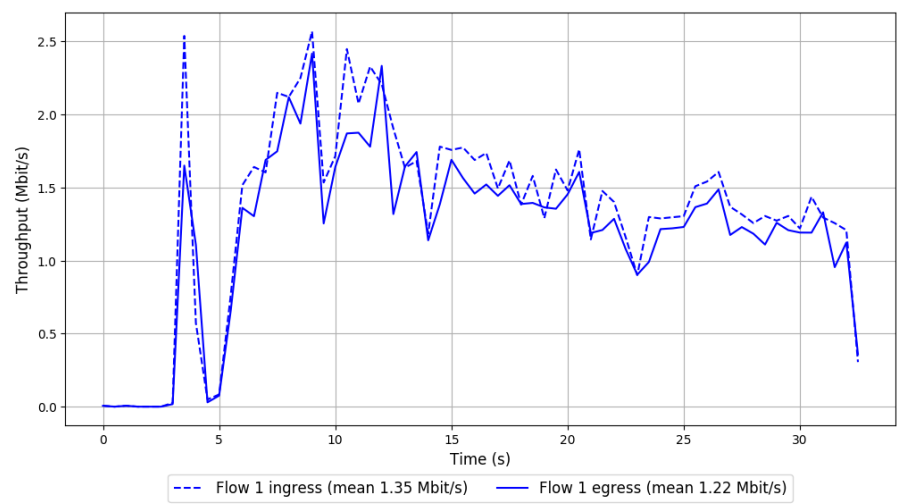
-- Flow 1:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 65.844 ms

Loss rate: 9.50%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-02 14:17:14

End at: 2018-02-02 14:17:44

Local clock offset: -0.493 ms

Remote clock offset: 3.096 ms

Below is generated by plot.py at 2018-02-02 17:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 65.867 ms

Loss rate: 8.06%

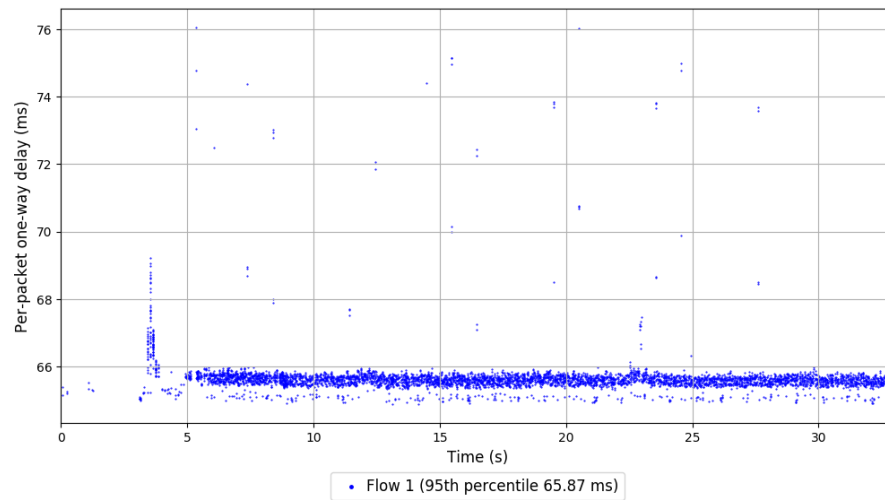
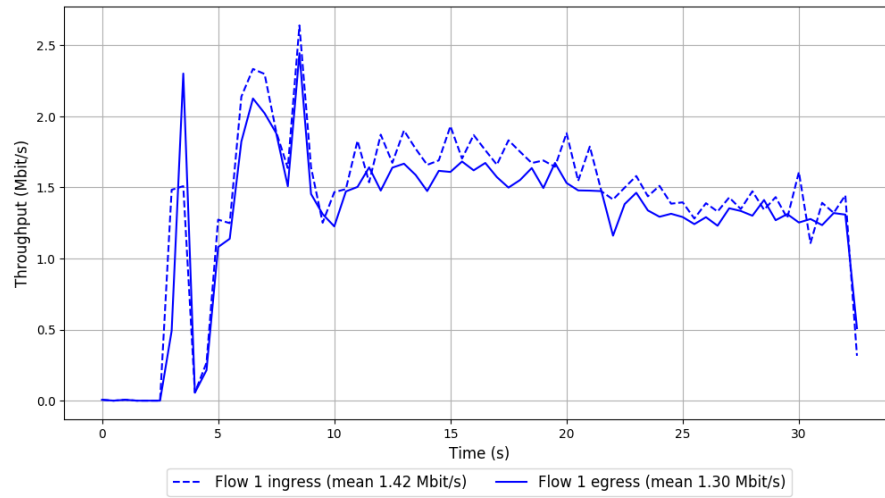
-- Flow 1:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 65.867 ms

Loss rate: 8.06%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-02 14:41:16

End at: 2018-02-02 14:41:46

Local clock offset: -0.633 ms

Remote clock offset: 3.648 ms

Below is generated by plot.py at 2018-02-02 17:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.68 Mbit/s

95th percentile per-packet one-way delay: 66.241 ms

Loss rate: 6.80%

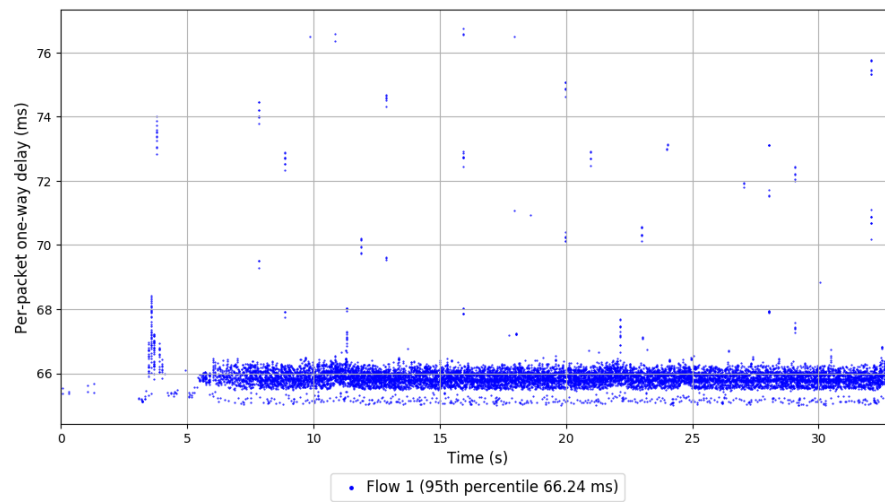
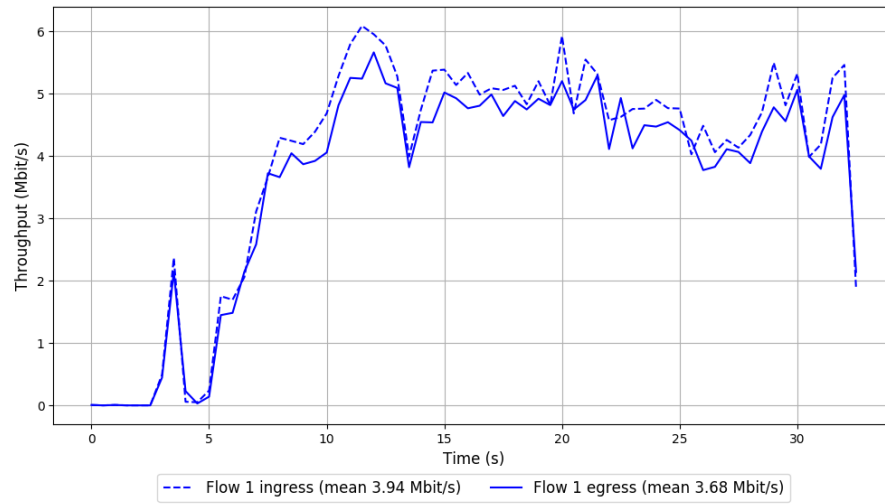
-- Flow 1:

Average throughput: 3.68 Mbit/s

95th percentile per-packet one-way delay: 66.241 ms

Loss rate: 6.80%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-02 15:05:18

End at: 2018-02-02 15:05:48

Local clock offset: -0.697 ms

Remote clock offset: 3.898 ms

Below is generated by plot.py at 2018-02-02 17:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.27 Mbit/s

95th percentile per-packet one-way delay: 66.548 ms

Loss rate: 2.82%

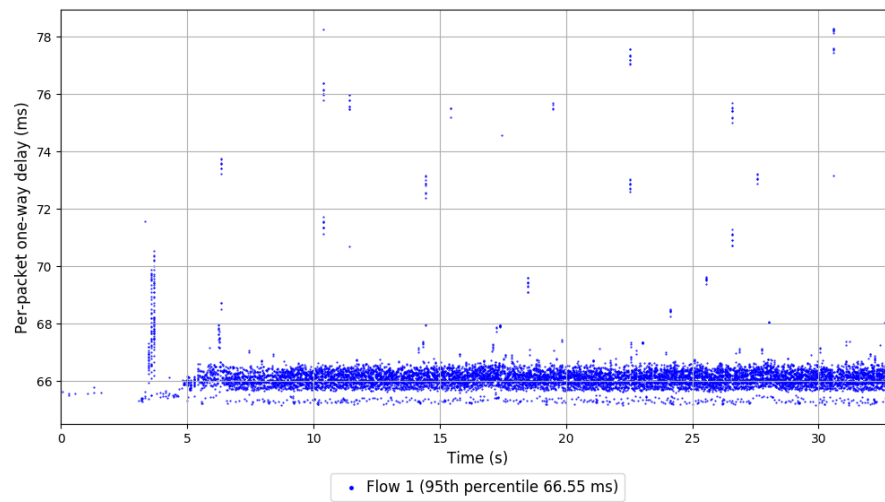
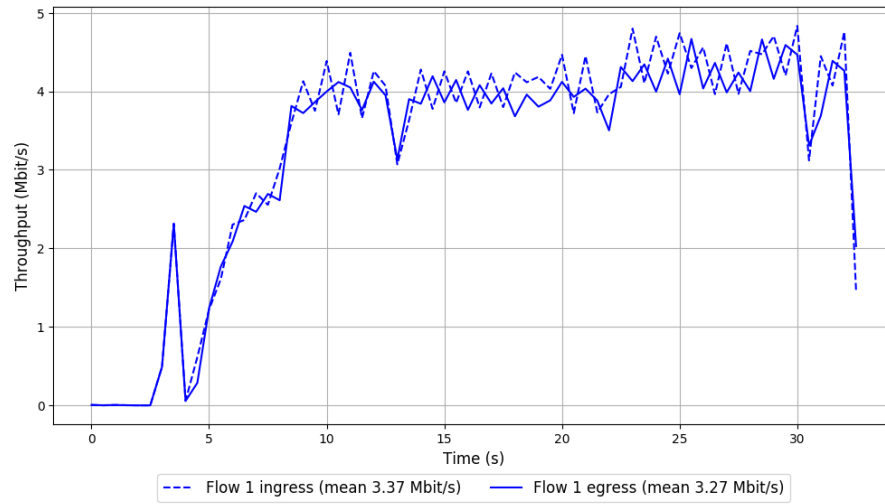
-- Flow 1:

Average throughput: 3.27 Mbit/s

95th percentile per-packet one-way delay: 66.548 ms

Loss rate: 2.82%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-02 15:29:06

End at: 2018-02-02 15:29:36

Local clock offset: -0.508 ms

Remote clock offset: 2.79 ms

Below is generated by plot.py at 2018-02-02 17:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.70 Mbit/s

95th percentile per-packet one-way delay: 66.281 ms

Loss rate: 0.27%

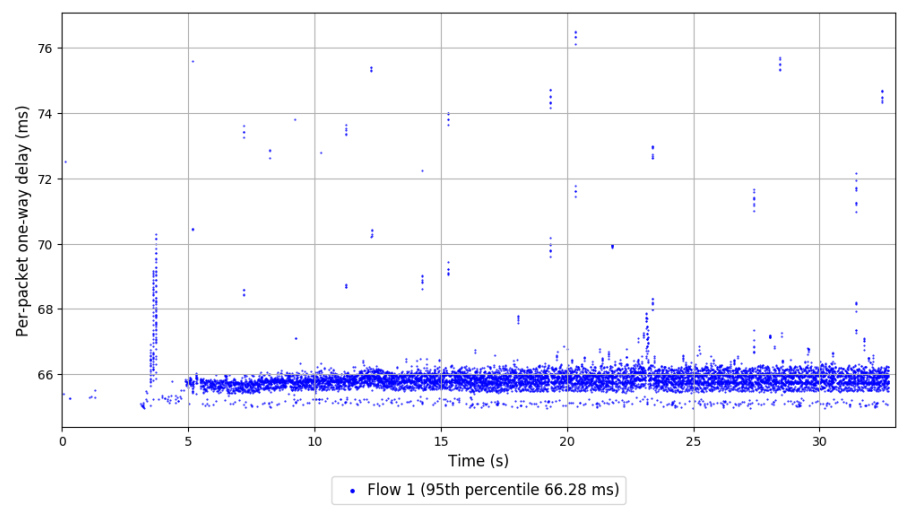
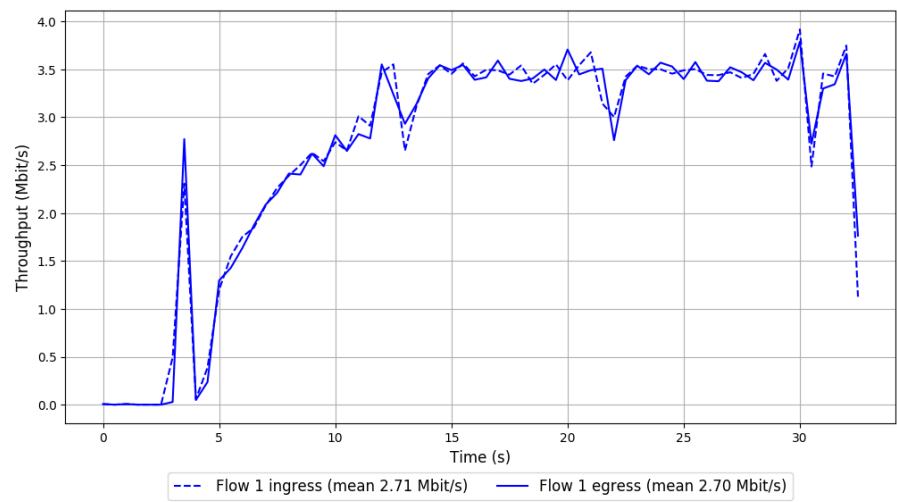
-- Flow 1:

Average throughput: 2.70 Mbit/s

95th percentile per-packet one-way delay: 66.281 ms

Loss rate: 0.27%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-02 15:53:10

End at: 2018-02-02 15:53:40

Local clock offset: -0.747 ms

Remote clock offset: 1.108 ms

Below is generated by plot.py at 2018-02-02 17:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 66.453 ms

Loss rate: 0.00%

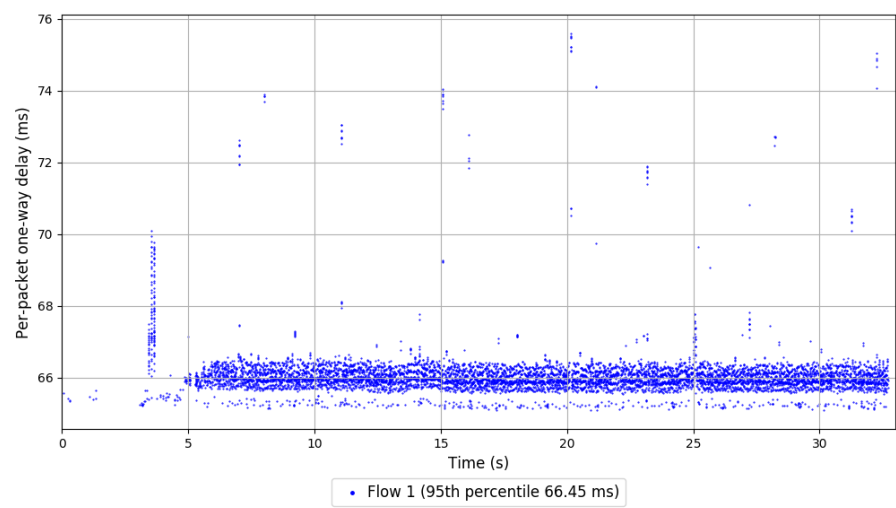
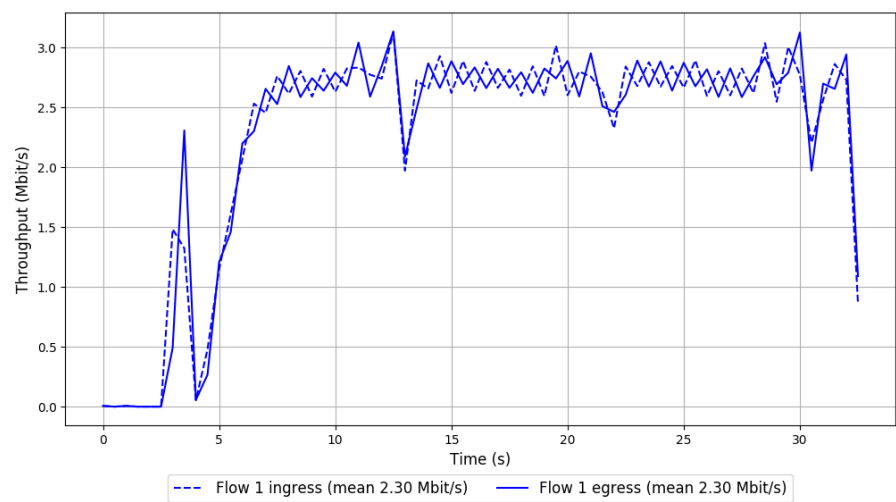
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 66.453 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

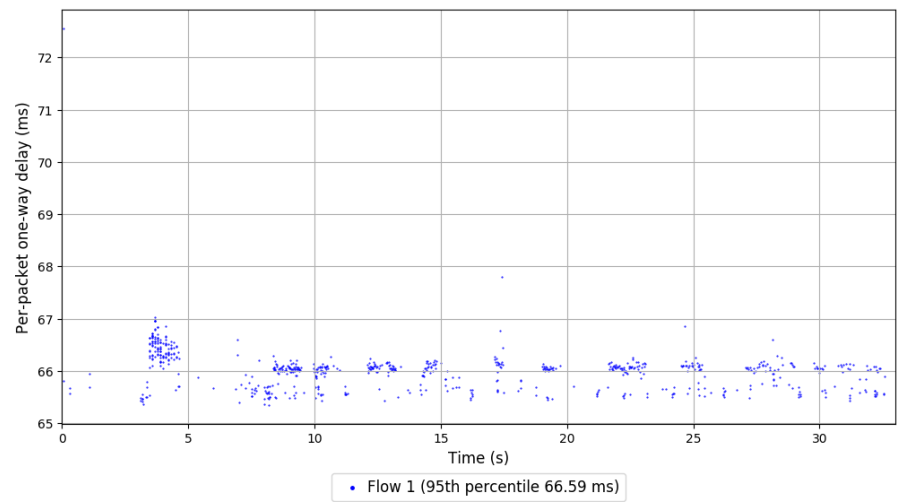
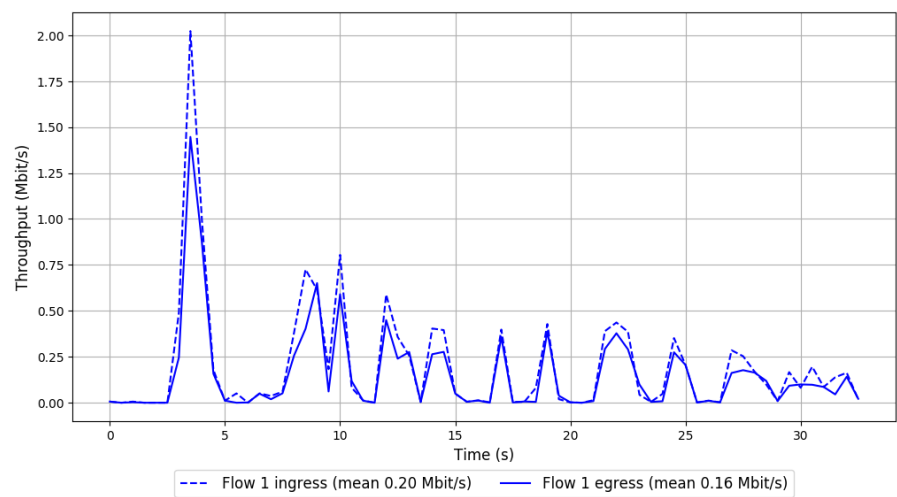


Run 9: Statistics of WebRTC media

Start at: 2018-02-02 16:35:16
End at: 2018-02-02 16:35:46
Local clock offset: -1.052 ms
Remote clock offset: -0.365 ms

Below is generated by plot.py at 2018-02-02 17:39:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 66.593 ms
Loss rate: 23.81%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 66.593 ms
Loss rate: 23.81%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-02 16:59:38

End at: 2018-02-02 17:00:08

Local clock offset: -0.84 ms

Remote clock offset: -0.202 ms

Below is generated by plot.py at 2018-02-02 17:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.61 Mbit/s

95th percentile per-packet one-way delay: 66.162 ms

Loss rate: 12.17%

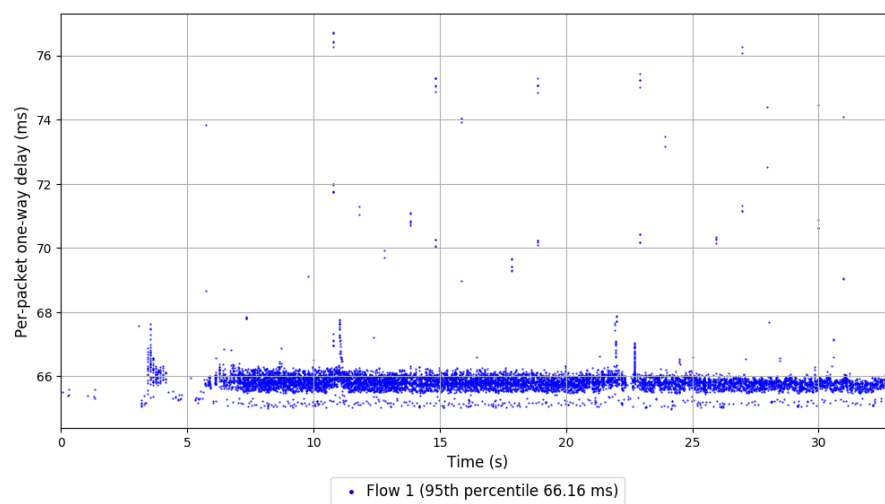
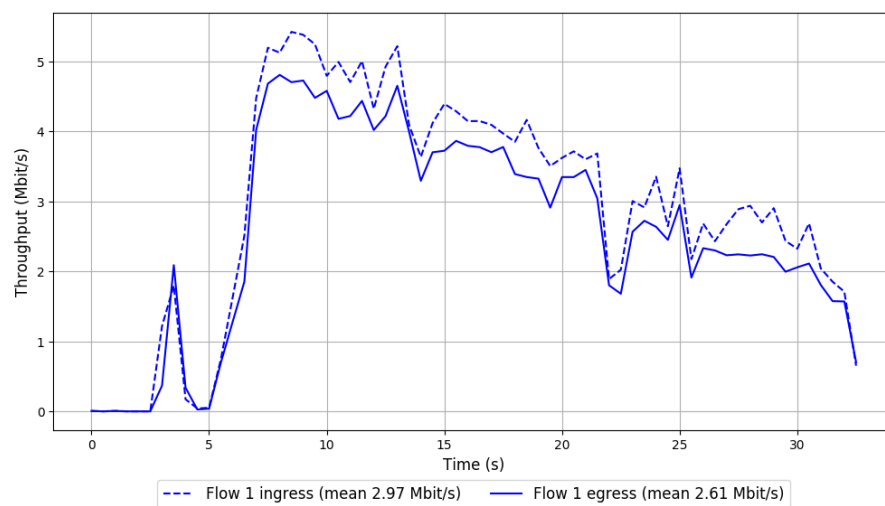
-- Flow 1:

Average throughput: 2.61 Mbit/s

95th percentile per-packet one-way delay: 66.162 ms

Loss rate: 12.17%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-02 13:13:31

End at: 2018-02-02 13:14:01

Local clock offset: -0.72 ms

Remote clock offset: 1.325 ms

Below is generated by plot.py at 2018-02-02 17:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 69.371 ms

Loss rate: 12.79%

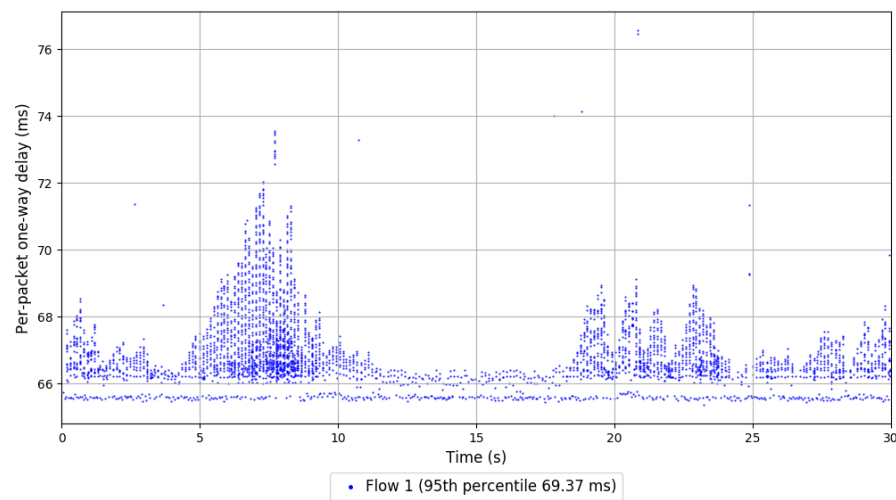
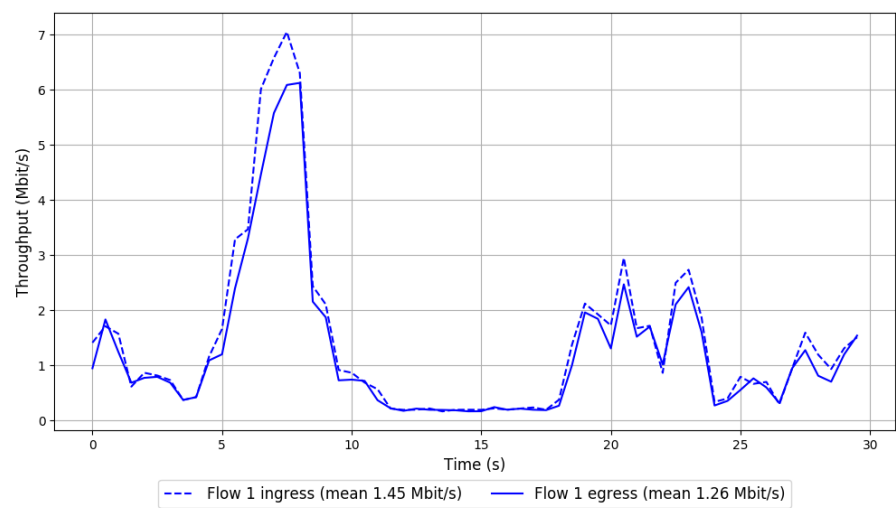
-- Flow 1:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 69.371 ms

Loss rate: 12.79%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-02 13:37:26

End at: 2018-02-02 13:37:56

Local clock offset: -1.023 ms

Remote clock offset: 1.974 ms

Below is generated by plot.py at 2018-02-02 17:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 69.747 ms

Loss rate: 12.30%

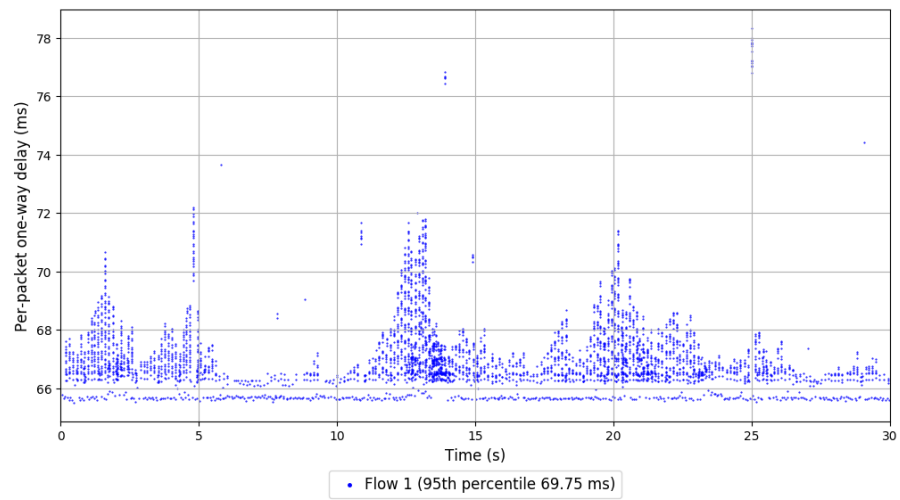
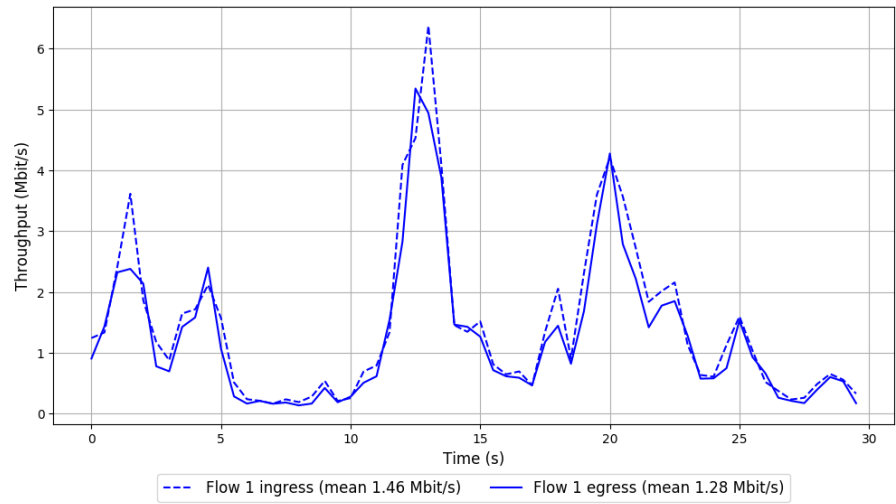
-- Flow 1:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 69.747 ms

Loss rate: 12.30%

Run 2: Report of Sprout — Data Link

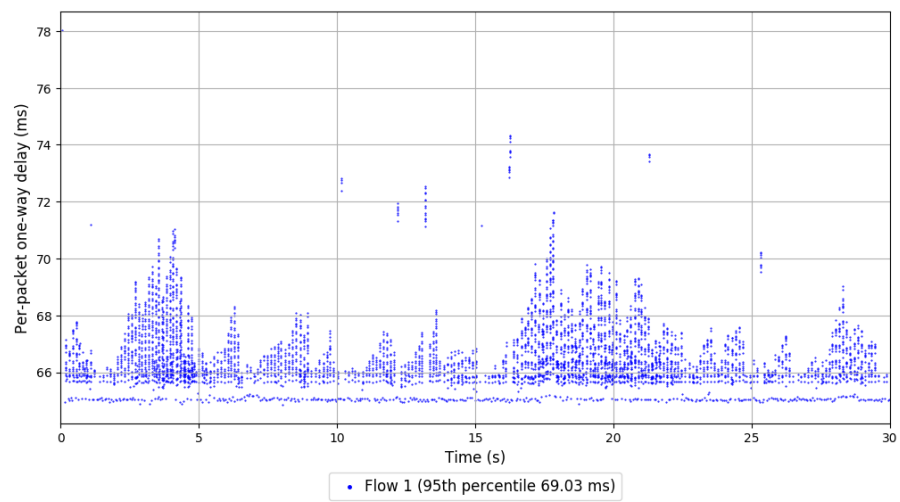
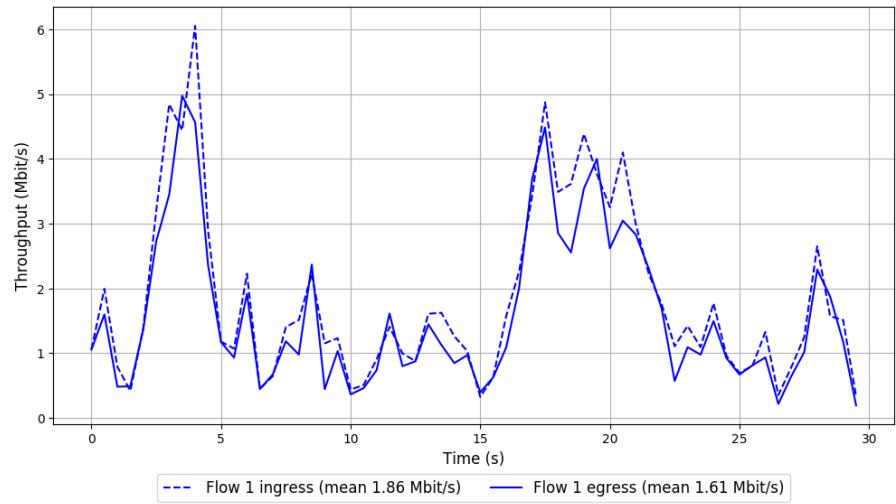


Run 3: Statistics of Sprout

Start at: 2018-02-02 14:01:23
End at: 2018-02-02 14:01:53
Local clock offset: -0.449 ms
Remote clock offset: 2.628 ms

Below is generated by plot.py at 2018-02-02 17:39:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.61 Mbit/s
95th percentile per-packet one-way delay: 69.031 ms
Loss rate: 13.54%
-- Flow 1:
Average throughput: 1.61 Mbit/s
95th percentile per-packet one-way delay: 69.031 ms
Loss rate: 13.54%

Run 3: Report of Sprout — Data Link

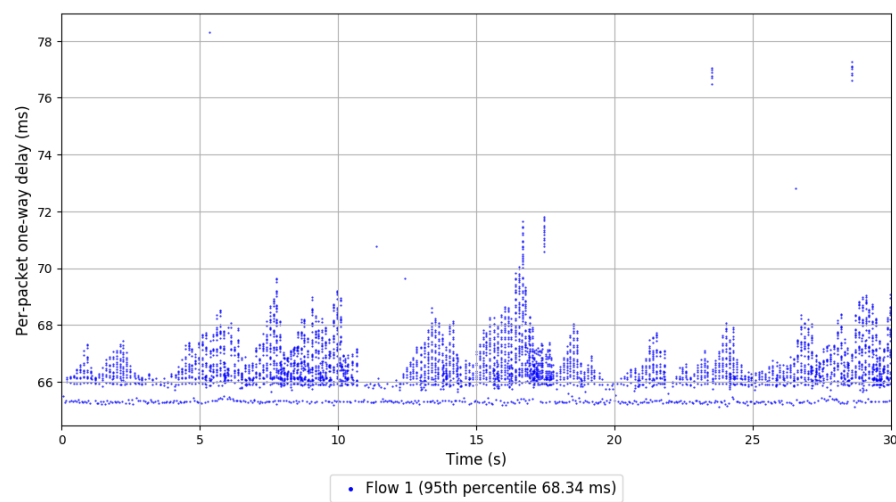
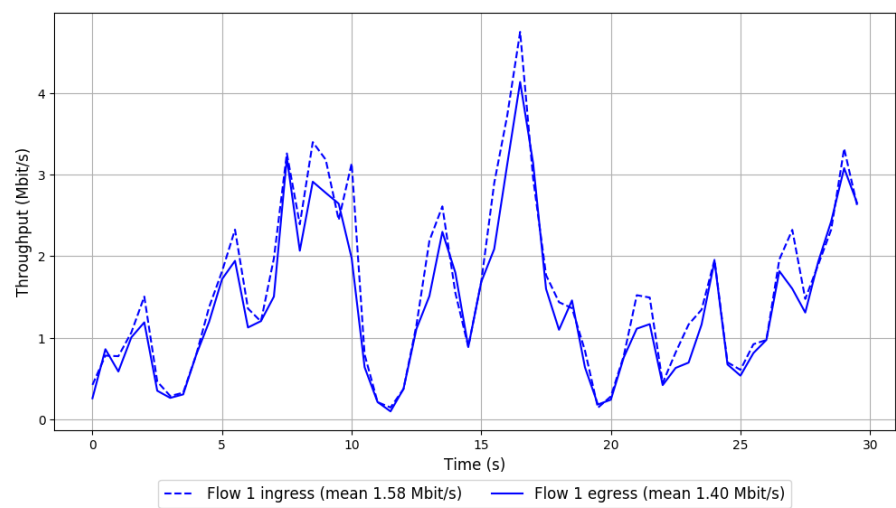


Run 4: Statistics of Sprout

Start at: 2018-02-02 14:25:20
End at: 2018-02-02 14:25:50
Local clock offset: -0.656 ms
Remote clock offset: 3.346 ms

Below is generated by plot.py at 2018-02-02 17:39:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.40 Mbit/s
95th percentile per-packet one-way delay: 68.342 ms
Loss rate: 11.39%
-- Flow 1:
Average throughput: 1.40 Mbit/s
95th percentile per-packet one-way delay: 68.342 ms
Loss rate: 11.39%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-02 14:49:14

End at: 2018-02-02 14:49:44

Local clock offset: -0.529 ms

Remote clock offset: 3.724 ms

Below is generated by plot.py at 2018-02-02 17:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.10 Mbit/s

95th percentile per-packet one-way delay: 70.877 ms

Loss rate: 4.87%

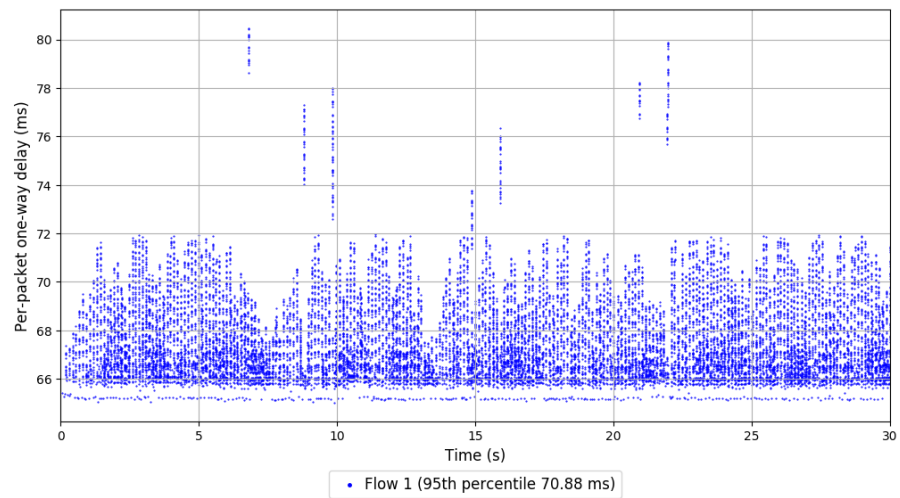
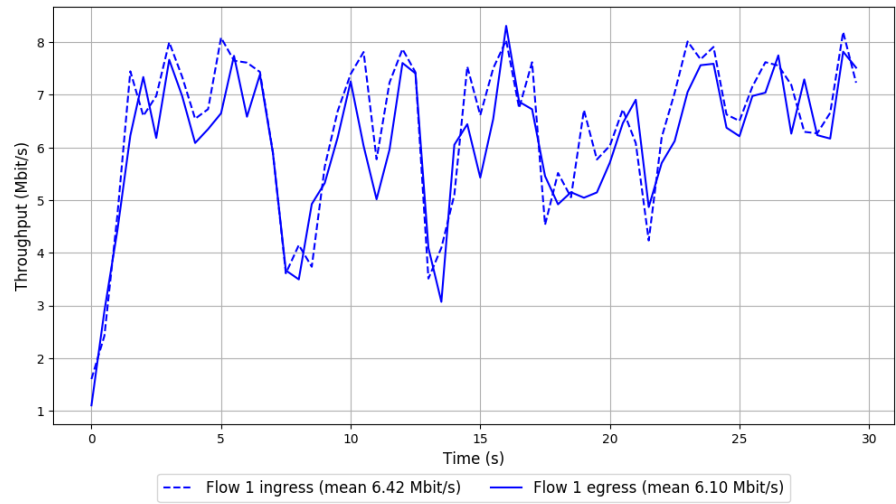
-- Flow 1:

Average throughput: 6.10 Mbit/s

95th percentile per-packet one-way delay: 70.877 ms

Loss rate: 4.87%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-02 15:13:10

End at: 2018-02-02 15:13:40

Local clock offset: -0.639 ms

Remote clock offset: 3.858 ms

Below is generated by plot.py at 2018-02-02 17:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 70.042 ms

Loss rate: 9.40%

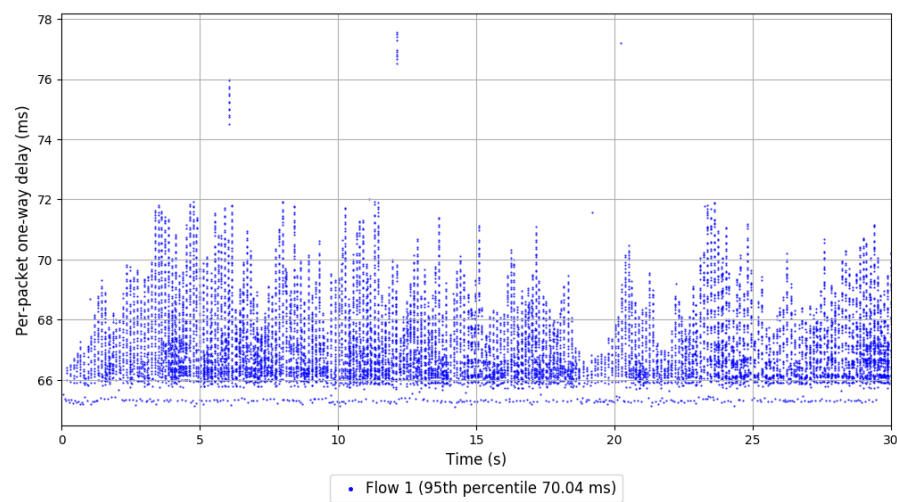
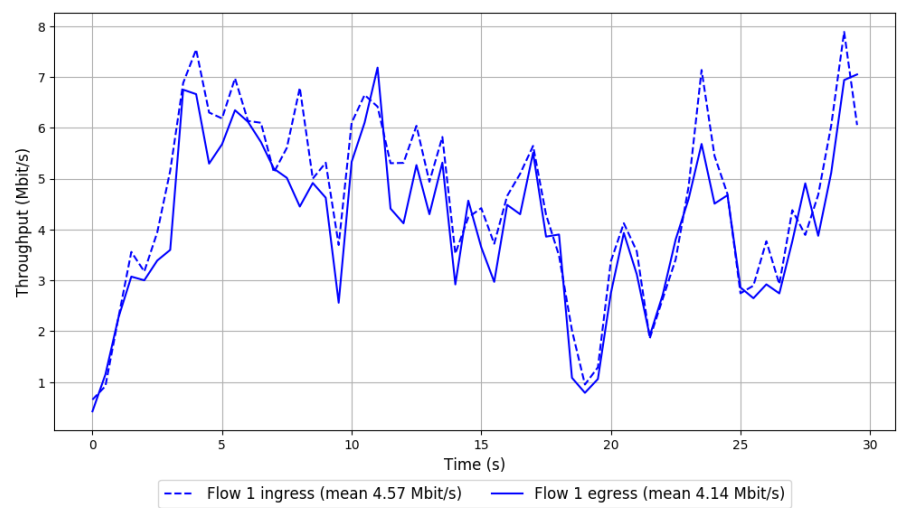
-- Flow 1:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 70.042 ms

Loss rate: 9.40%

Run 6: Report of Sprout — Data Link

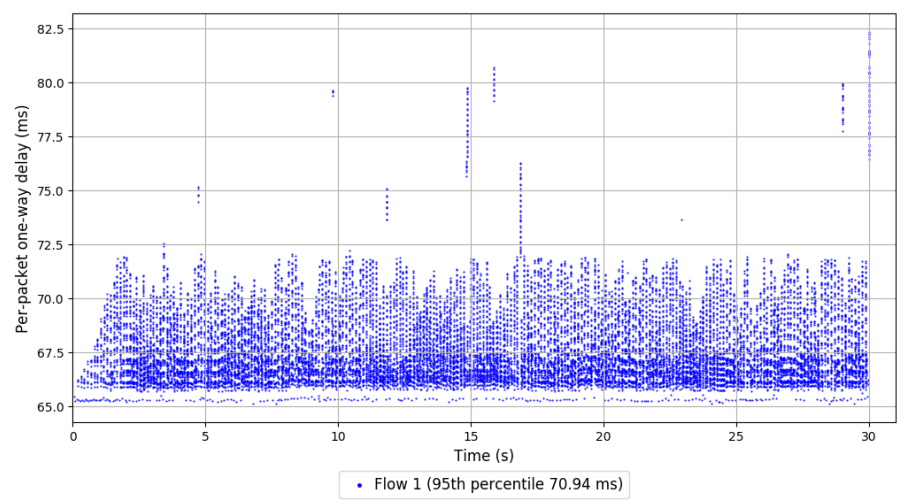
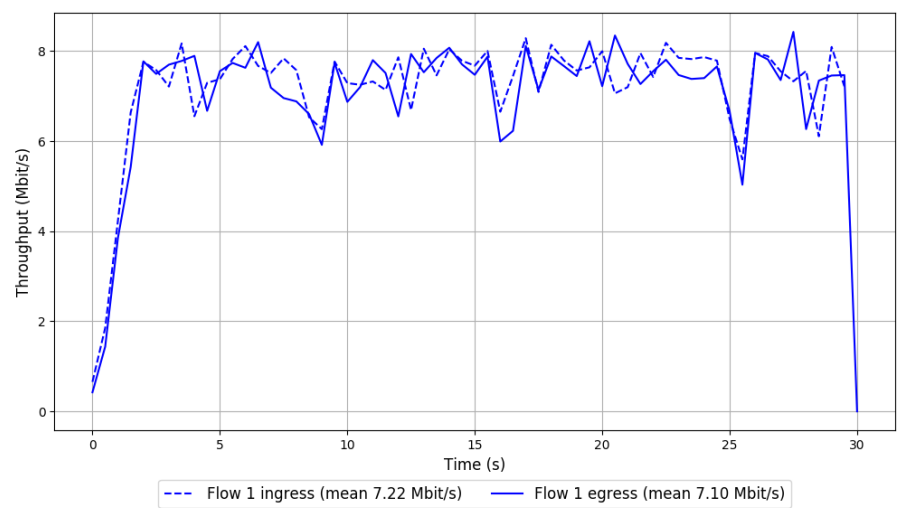


Run 7: Statistics of Sprout

Start at: 2018-02-02 15:37:03
End at: 2018-02-02 15:37:33
Local clock offset: -0.419 ms
Remote clock offset: 2.071 ms

Below is generated by plot.py at 2018-02-02 17:39:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.10 Mbit/s
95th percentile per-packet one-way delay: 70.935 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 7.10 Mbit/s
95th percentile per-packet one-way delay: 70.935 ms
Loss rate: 1.62%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

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

End at: 2018-02-02 16:08:39

Local clock offset: -0.97 ms

Remote clock offset: 0.313 ms

Below is generated by plot.py at 2018-02-02 17:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 66.435 ms

Loss rate: 59.77%

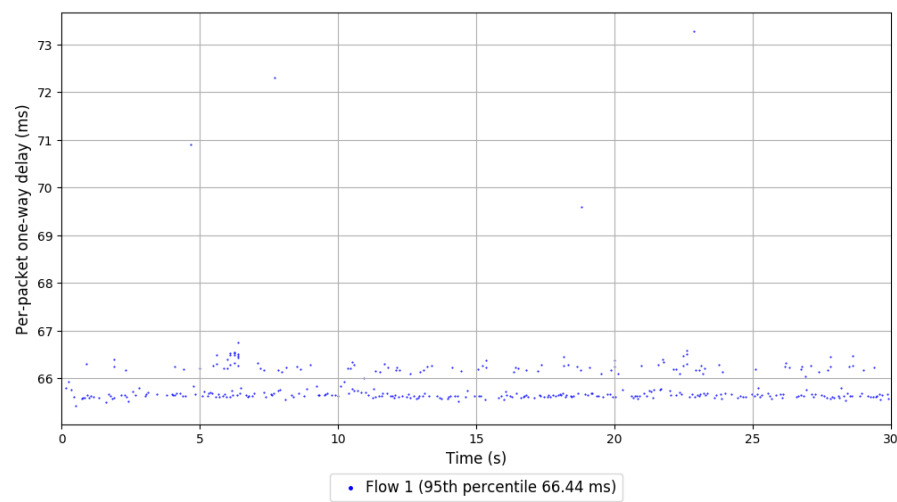
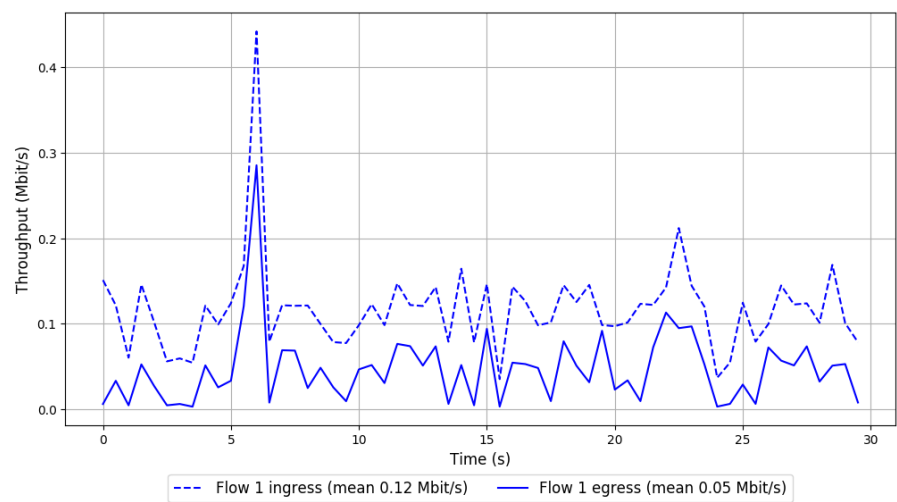
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 66.435 ms

Loss rate: 59.77%

Run 8: Report of Sprout — Data Link

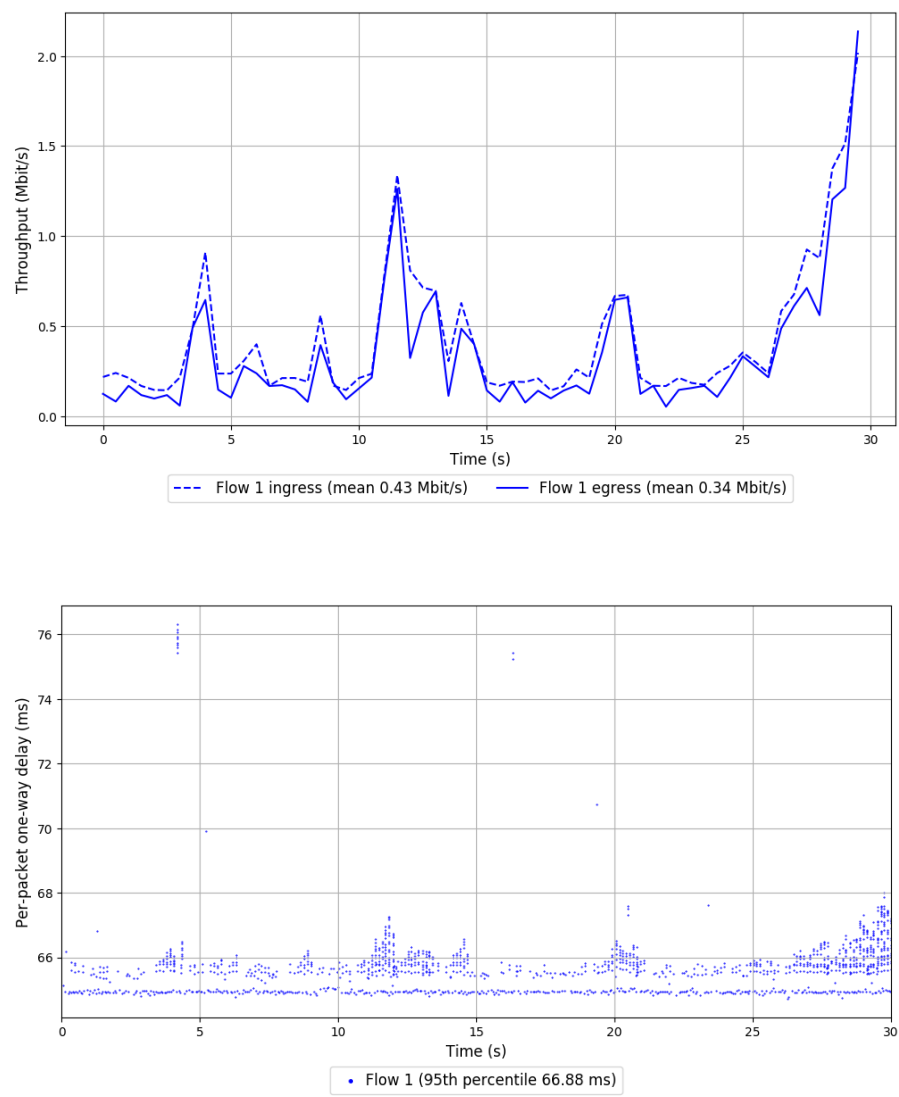


Run 9: Statistics of Sprout

Start at: 2018-02-02 16:43:26
End at: 2018-02-02 16:43:56
Local clock offset: -0.442 ms
Remote clock offset: -0.312 ms

Below is generated by plot.py at 2018-02-02 17:39:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 66.882 ms
Loss rate: 19.90%
-- Flow 1:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 66.882 ms
Loss rate: 19.90%

Run 9: Report of Sprout — Data Link

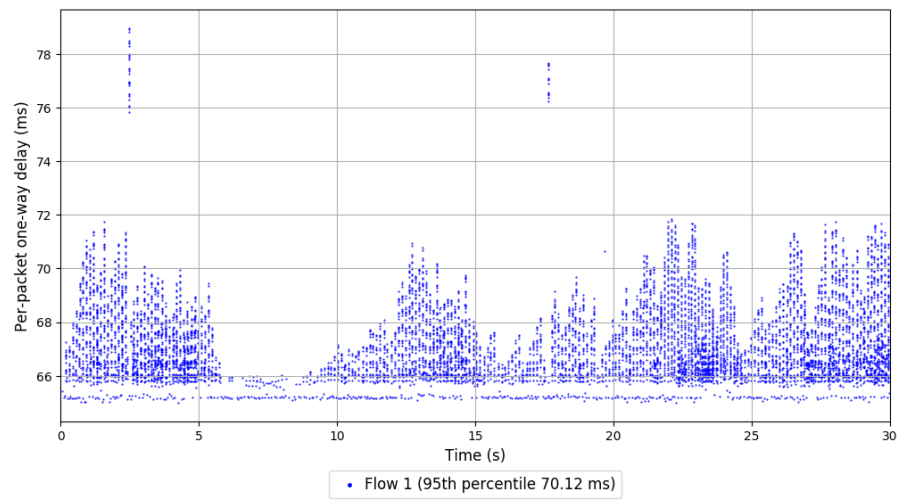
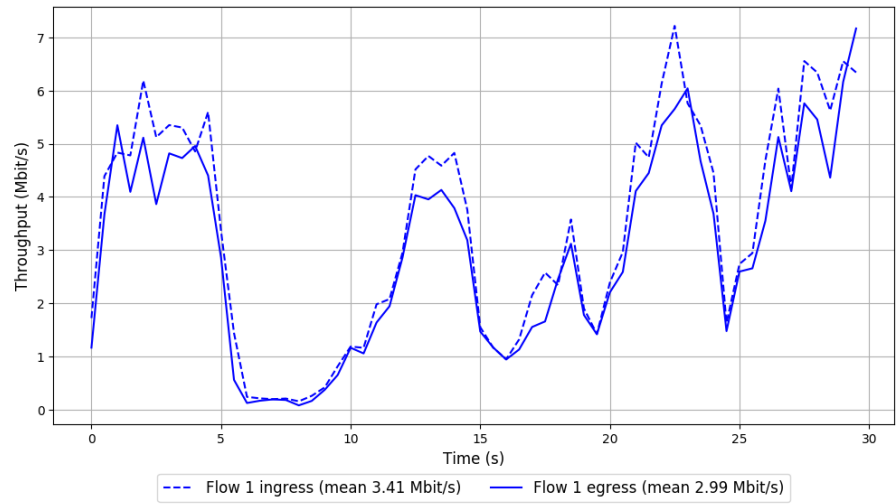


Run 10: Statistics of Sprout

Start at: 2018-02-02 17:07:34
End at: 2018-02-02 17:08:04
Local clock offset: -0.406 ms
Remote clock offset: -0.079 ms

Below is generated by plot.py at 2018-02-02 17:39:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.99 Mbit/s
95th percentile per-packet one-way delay: 70.121 ms
Loss rate: 12.13%
-- Flow 1:
Average throughput: 2.99 Mbit/s
95th percentile per-packet one-way delay: 70.121 ms
Loss rate: 12.13%

Run 10: Report of Sprout — Data Link

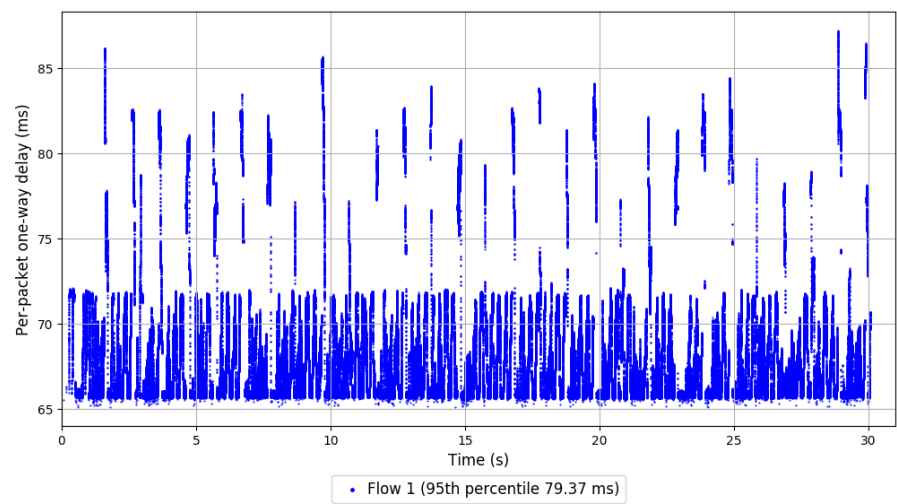
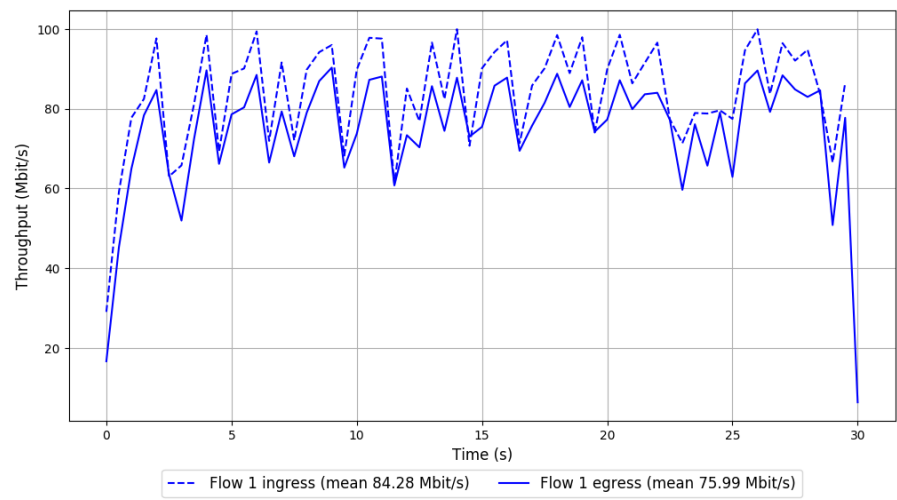


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-02 13:02:43
End at: 2018-02-02 13:03:13
Local clock offset: -0.522 ms
Remote clock offset: 0.899 ms

# Below is generated by plot.py at 2018-02-02 17:40:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.99 Mbit/s
95th percentile per-packet one-way delay: 79.369 ms
Loss rate: 9.82%
-- Flow 1:
Average throughput: 75.99 Mbit/s
95th percentile per-packet one-way delay: 79.369 ms
Loss rate: 9.82%
```


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



Run 2: Statistics of TaoVA-100x

Start at: 2018-02-02 13:26:46

End at: 2018-02-02 13:27:16

Local clock offset: -1.132 ms

Remote clock offset: 1.642 ms

Below is generated by plot.py at 2018-02-02 17:40:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.24 Mbit/s

95th percentile per-packet one-way delay: 78.154 ms

Loss rate: 10.53%

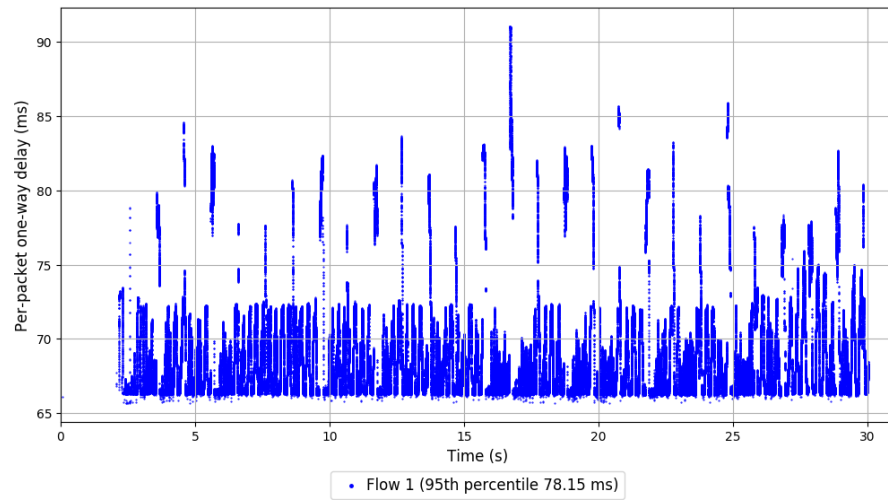
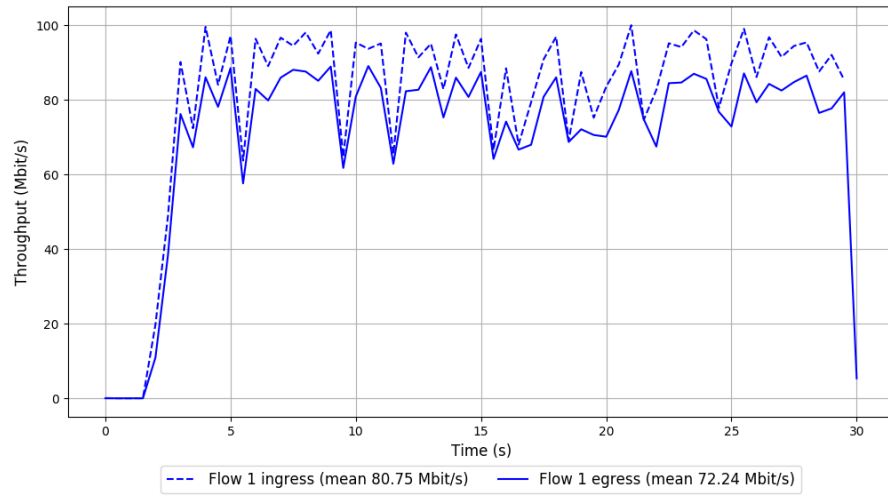
-- Flow 1:

Average throughput: 72.24 Mbit/s

95th percentile per-packet one-way delay: 78.154 ms

Loss rate: 10.53%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-02-02 13:50:42

End at: 2018-02-02 13:51:12

Local clock offset: -0.762 ms

Remote clock offset: 2.362 ms

Below is generated by plot.py at 2018-02-02 17:41:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.43 Mbit/s

95th percentile per-packet one-way delay: 79.487 ms

Loss rate: 10.94%

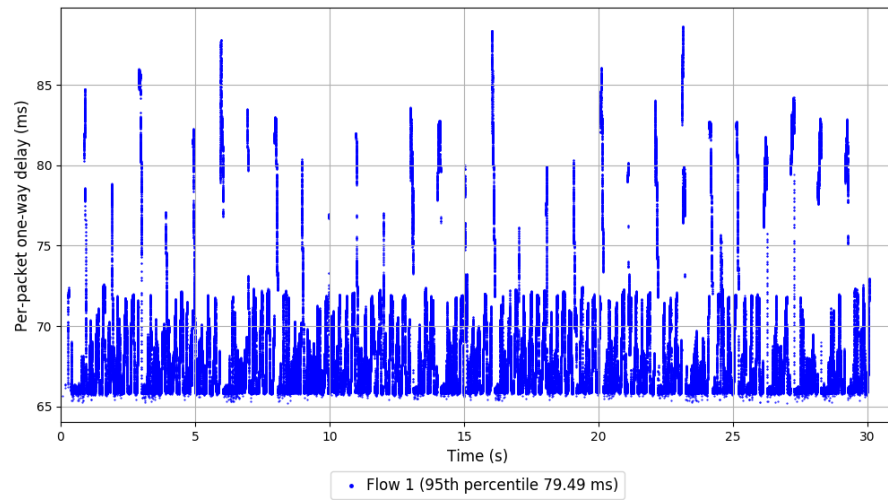
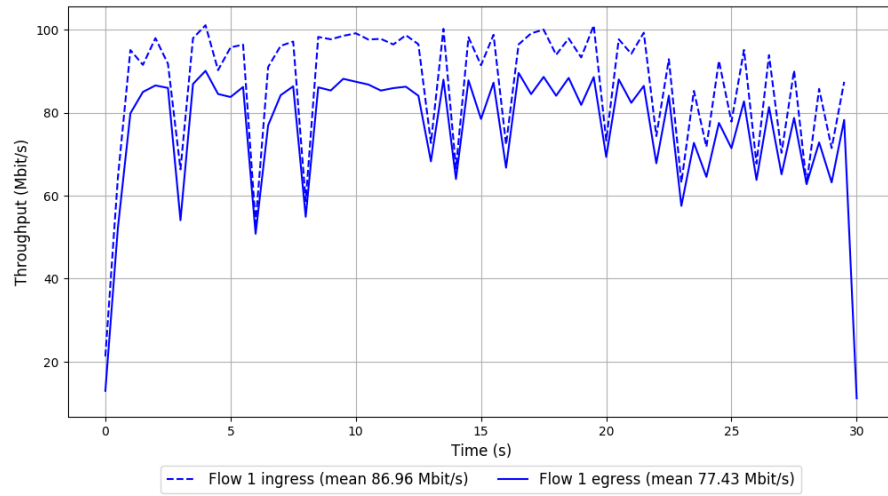
-- Flow 1:

Average throughput: 77.43 Mbit/s

95th percentile per-packet one-way delay: 79.487 ms

Loss rate: 10.94%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-02-02 14:14:33

End at: 2018-02-02 14:15:03

Local clock offset: -0.642 ms

Remote clock offset: 3.041 ms

Below is generated by plot.py at 2018-02-02 17:41:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.20 Mbit/s

95th percentile per-packet one-way delay: 78.747 ms

Loss rate: 9.57%

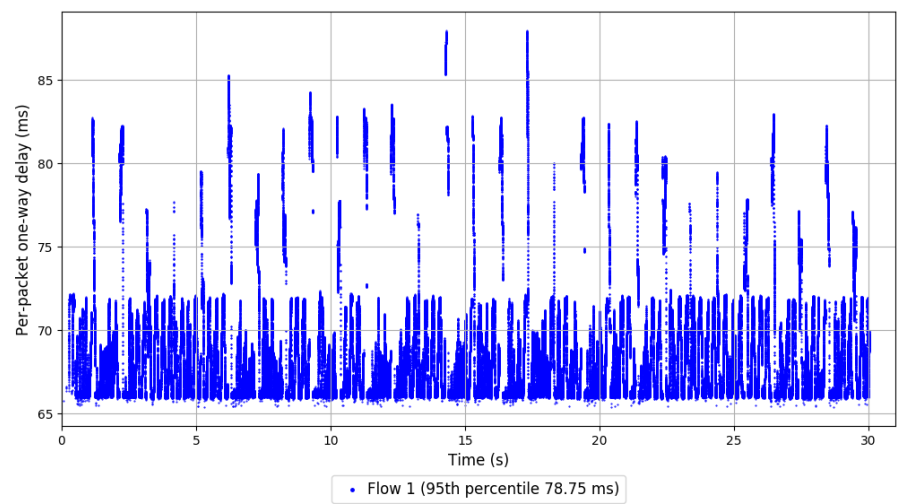
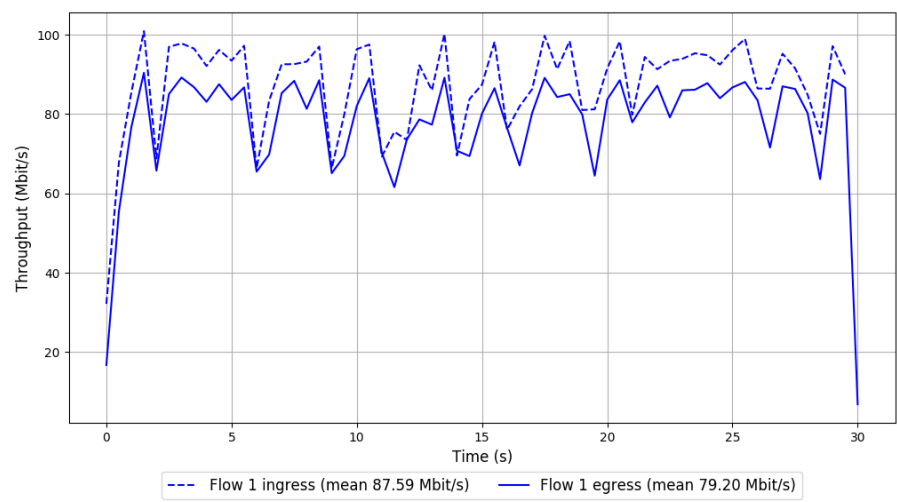
-- Flow 1:

Average throughput: 79.20 Mbit/s

95th percentile per-packet one-way delay: 78.747 ms

Loss rate: 9.57%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-02 14:38:34

End at: 2018-02-02 14:39:04

Local clock offset: -0.839 ms

Remote clock offset: 3.647 ms

Below is generated by plot.py at 2018-02-02 17:41:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.71 Mbit/s

95th percentile per-packet one-way delay: 77.598 ms

Loss rate: 9.50%

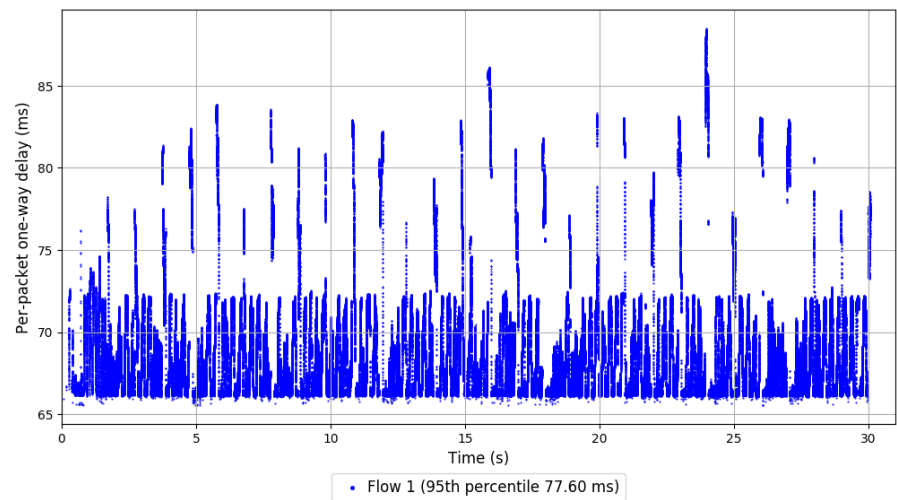
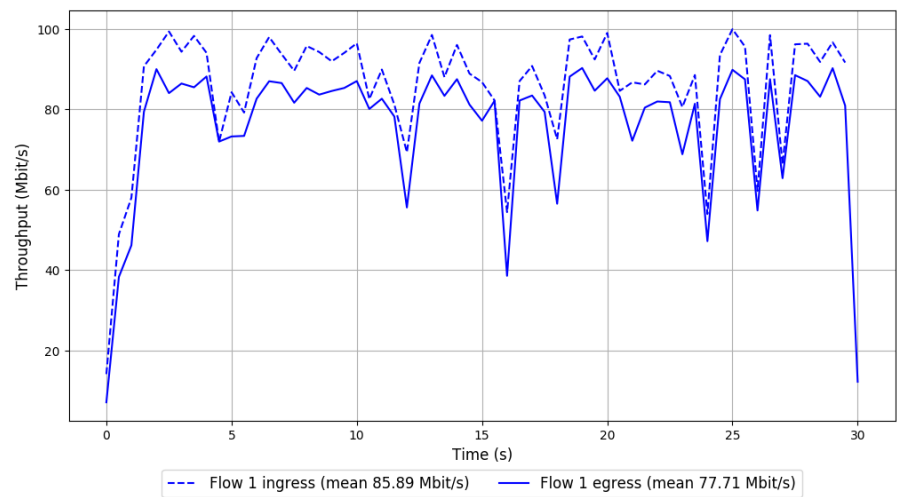
-- Flow 1:

Average throughput: 77.71 Mbit/s

95th percentile per-packet one-way delay: 77.598 ms

Loss rate: 9.50%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-02 15:02:37

End at: 2018-02-02 15:03:07

Local clock offset: -0.753 ms

Remote clock offset: 3.759 ms

Below is generated by plot.py at 2018-02-02 17:41:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.89 Mbit/s

95th percentile per-packet one-way delay: 78.303 ms

Loss rate: 5.48%

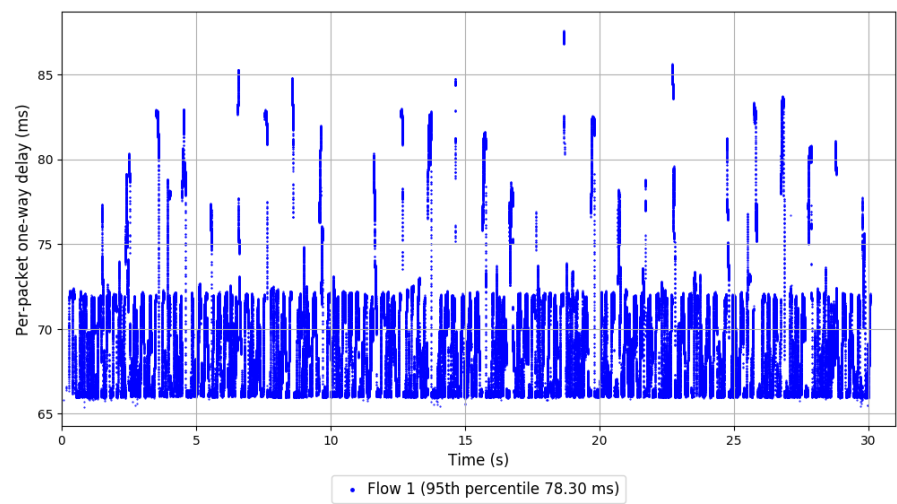
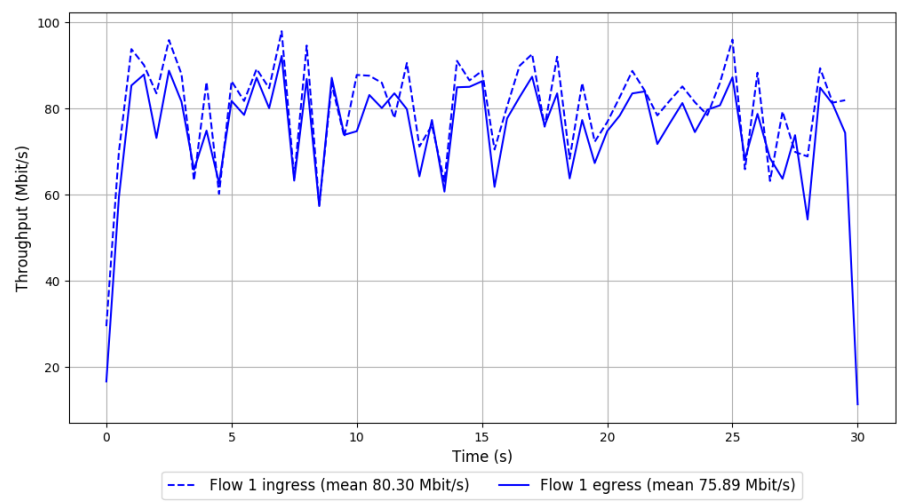
-- Flow 1:

Average throughput: 75.89 Mbit/s

95th percentile per-packet one-way delay: 78.303 ms

Loss rate: 5.48%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-02 15:26:24

End at: 2018-02-02 15:26:54

Local clock offset: -0.711 ms

Remote clock offset: 3.052 ms

Below is generated by plot.py at 2018-02-02 17:41:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.56 Mbit/s

95th percentile per-packet one-way delay: 76.771 ms

Loss rate: 6.59%

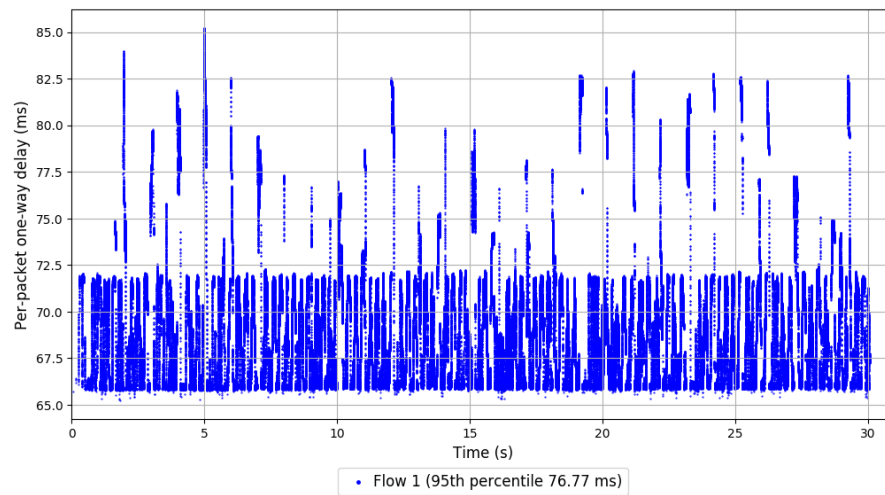
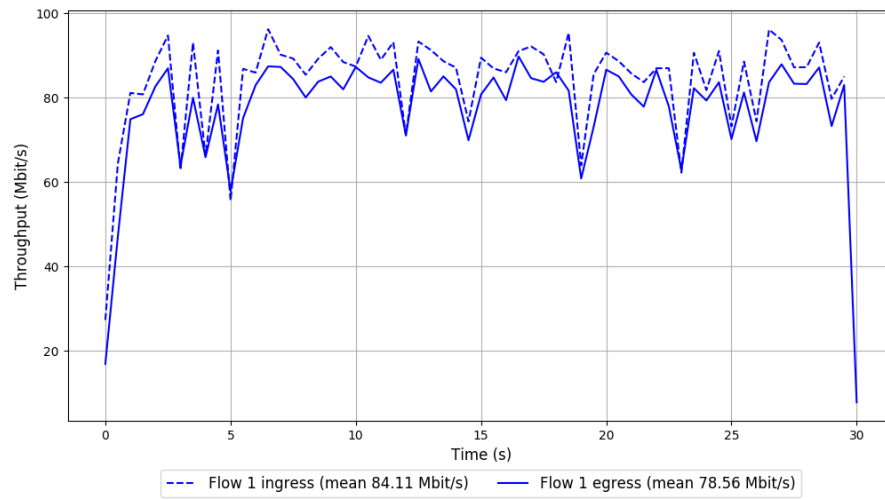
-- Flow 1:

Average throughput: 78.56 Mbit/s

95th percentile per-packet one-way delay: 76.771 ms

Loss rate: 6.59%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-02 15:50:28

End at: 2018-02-02 15:50:59

Local clock offset: -0.667 ms

Remote clock offset: 1.141 ms

Below is generated by plot.py at 2018-02-02 17:41:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.09 Mbit/s

95th percentile per-packet one-way delay: 79.096 ms

Loss rate: 4.91%

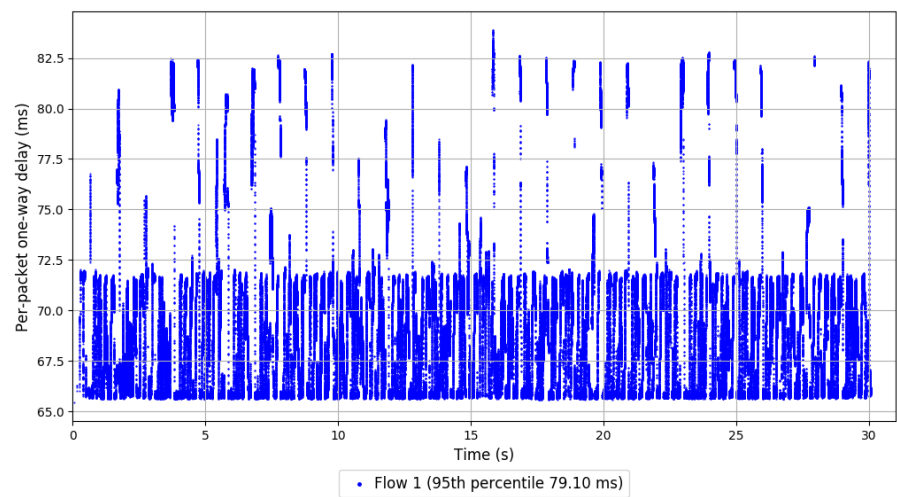
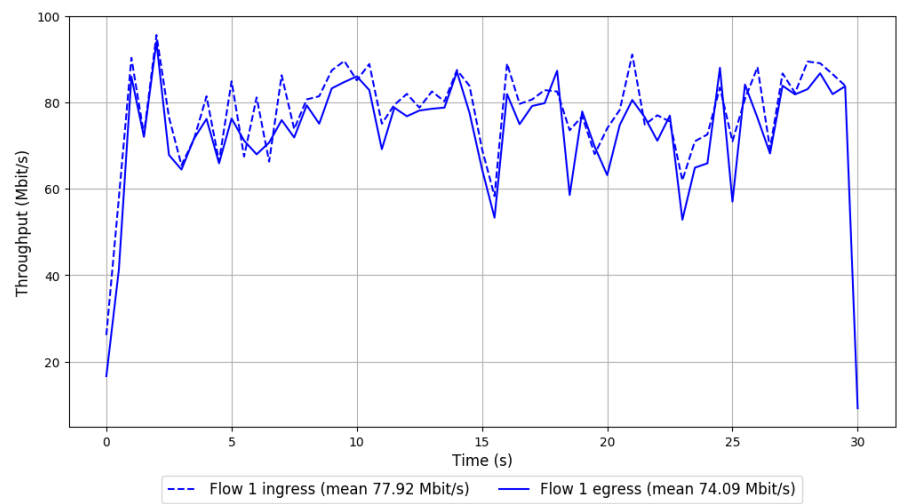
-- Flow 1:

Average throughput: 74.09 Mbit/s

95th percentile per-packet one-way delay: 79.096 ms

Loss rate: 4.91%

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

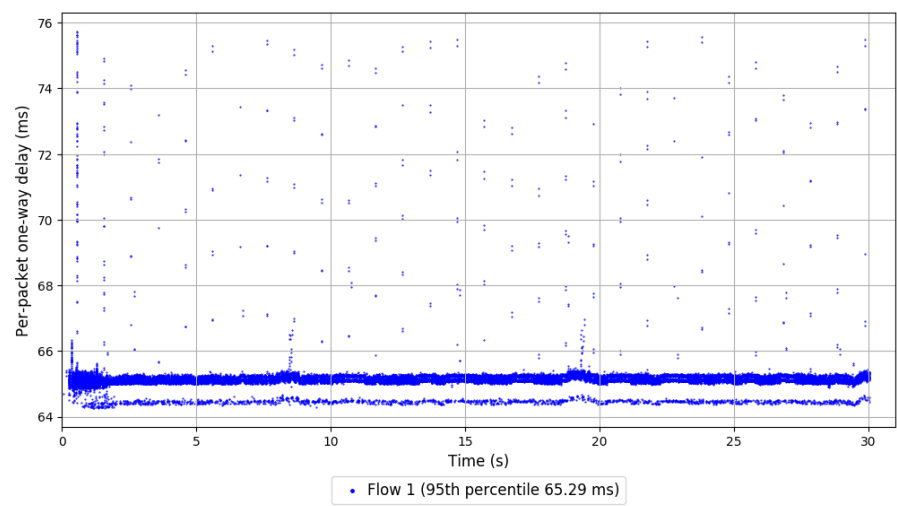
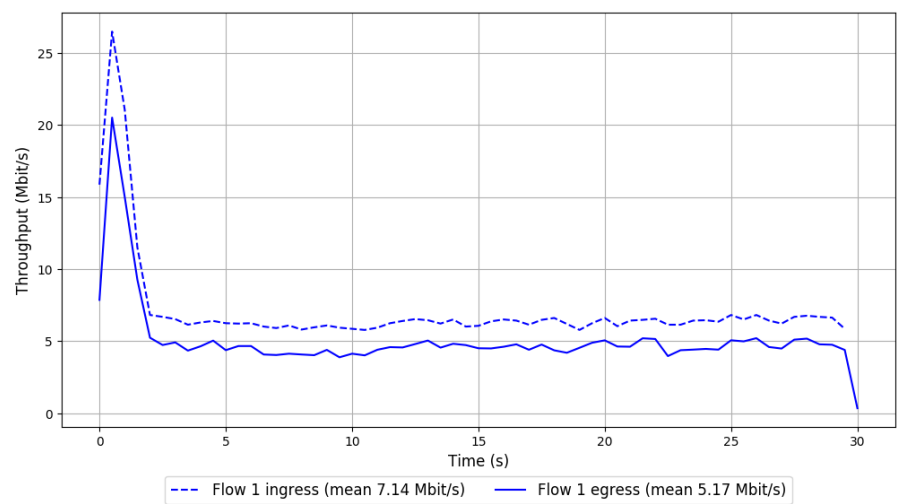


Run 9: Statistics of TaoVA-100x

Start at: 2018-02-02 16:32:30
End at: 2018-02-02 16:33:00
Local clock offset: -0.253 ms
Remote clock offset: -0.362 ms

Below is generated by plot.py at 2018-02-02 17:41:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 5.17 Mbit/s
95th percentile per-packet one-way delay: 65.292 ms
Loss rate: 27.54%
-- Flow 1:
Average throughput: 5.17 Mbit/s
95th percentile per-packet one-way delay: 65.292 ms
Loss rate: 27.54%

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



Run 10: Statistics of TaoVA-100x

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

End at: 2018-02-02 16:57:26

Local clock offset: -0.348 ms

Remote clock offset: -0.248 ms

Below is generated by plot.py at 2018-02-02 17:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.08 Mbit/s

95th percentile per-packet one-way delay: 76.038 ms

Loss rate: 11.71%

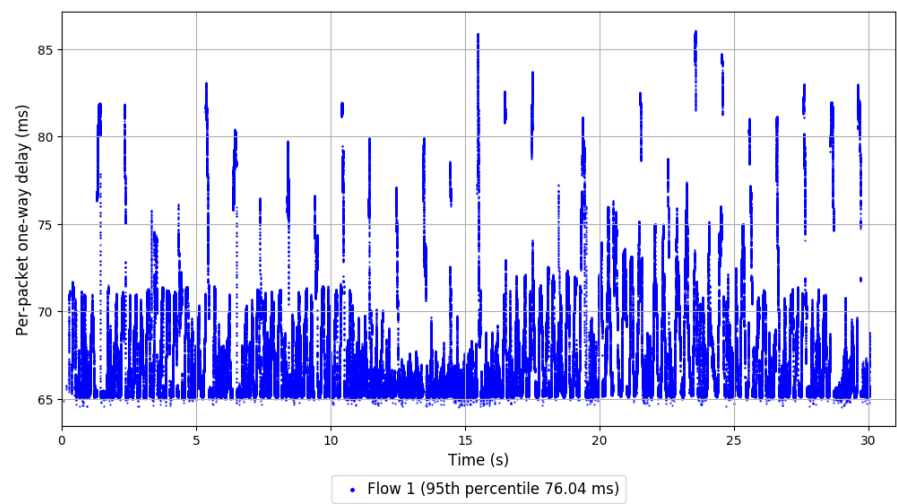
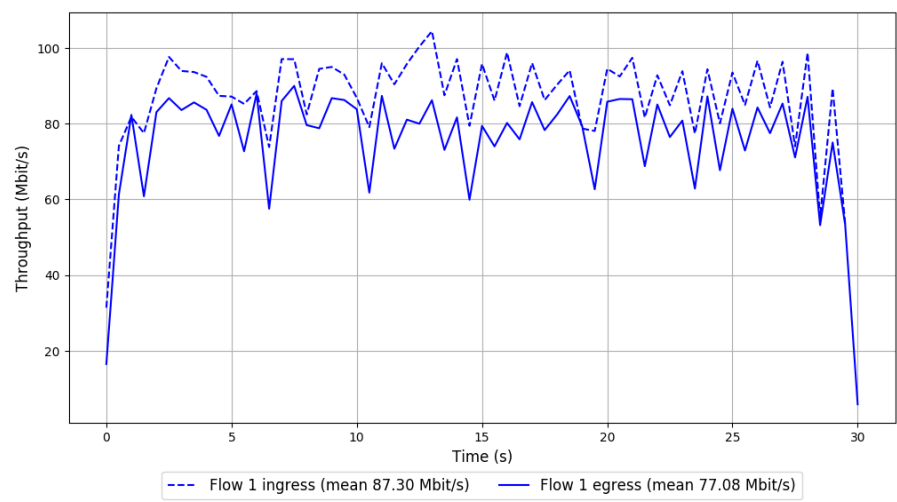
-- Flow 1:

Average throughput: 77.08 Mbit/s

95th percentile per-packet one-way delay: 76.038 ms

Loss rate: 11.71%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-02 13:00:06

End at: 2018-02-02 13:00:36

Local clock offset: -0.456 ms

Remote clock offset: 0.845 ms

Below is generated by plot.py at 2018-02-02 17:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 66.992 ms

Loss rate: 8.32%

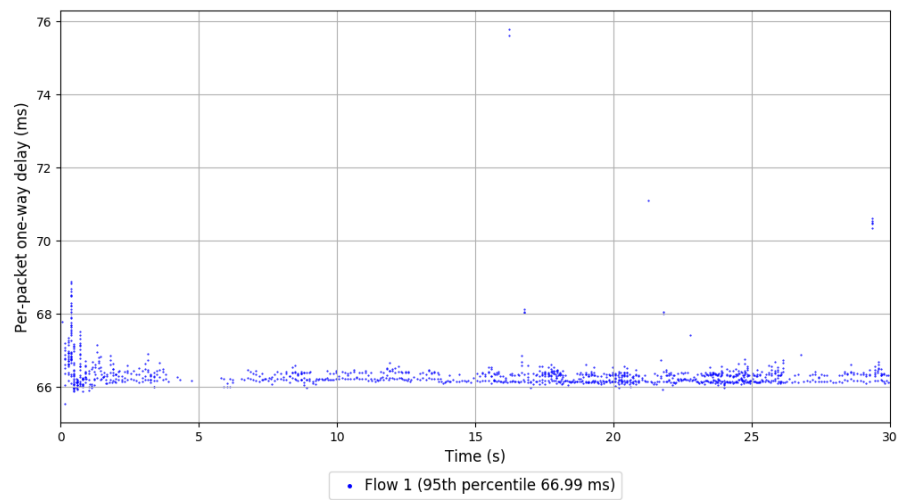
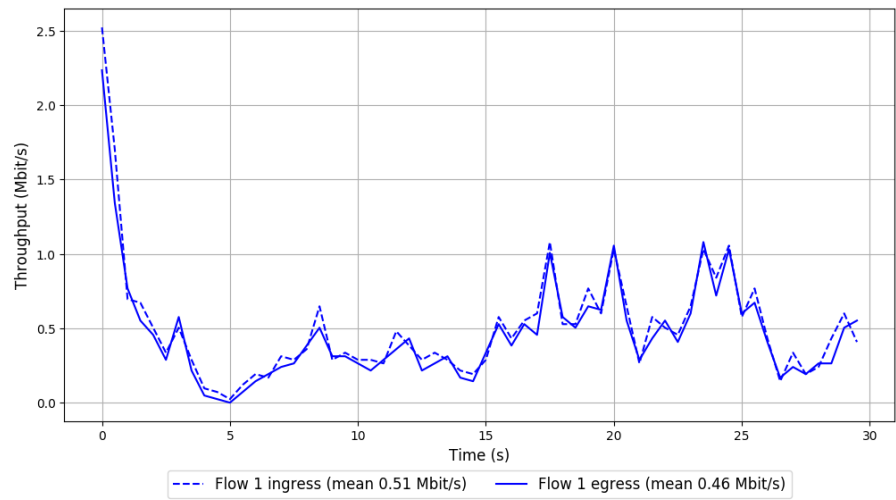
-- Flow 1:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 66.992 ms

Loss rate: 8.32%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-02 13:24:10

End at: 2018-02-02 13:24:40

Local clock offset: -0.235 ms

Remote clock offset: 1.567 ms

Below is generated by plot.py at 2018-02-02 17:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 66.315 ms

Loss rate: 8.89%

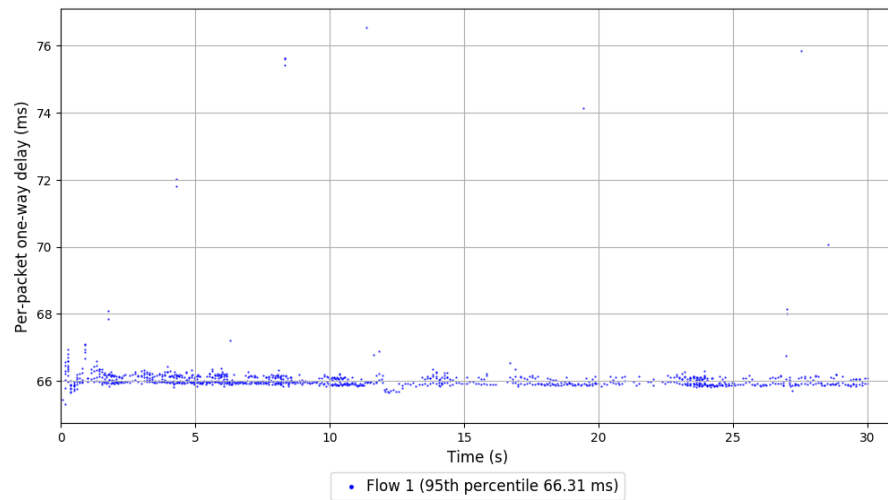
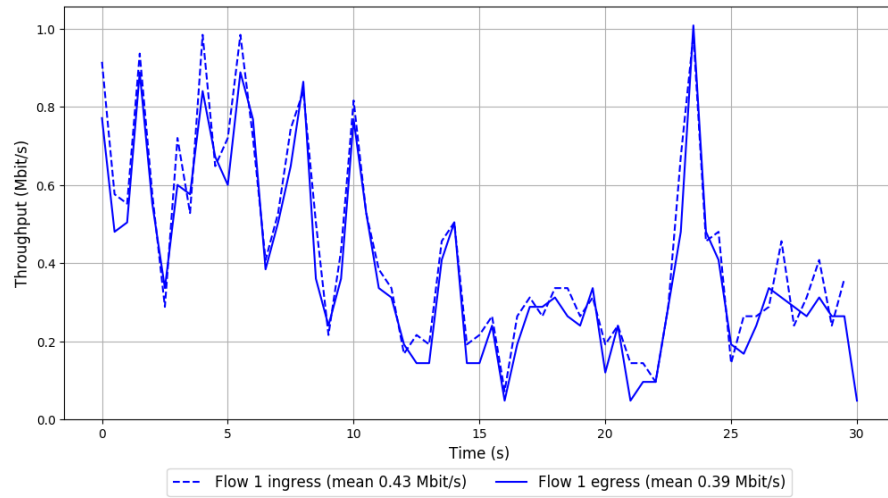
-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 66.315 ms

Loss rate: 8.89%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-02 13:48:07

End at: 2018-02-02 13:48:37

Local clock offset: -3.467 ms

Remote clock offset: 2.342 ms

Below is generated by plot.py at 2018-02-02 17:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 69.337 ms

Loss rate: 8.90%

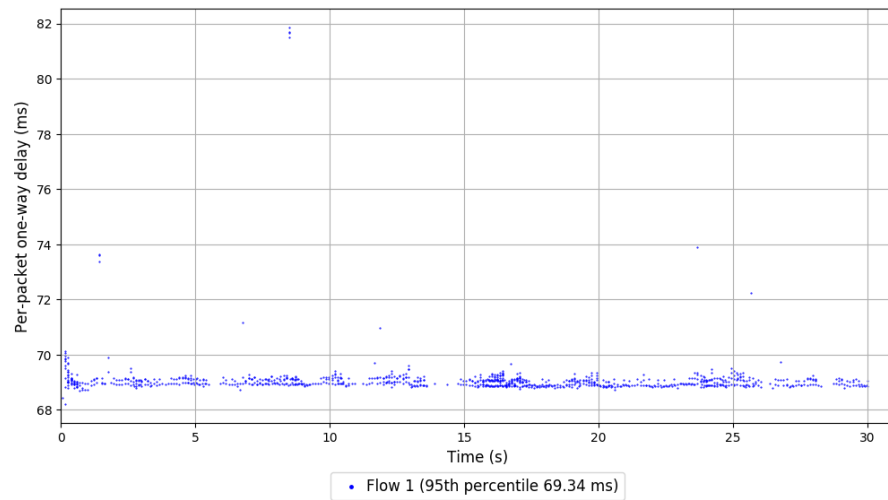
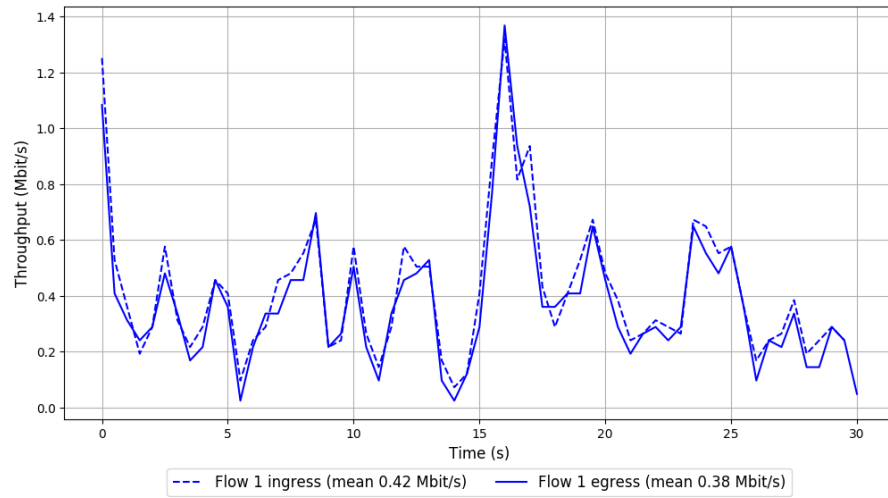
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 69.337 ms

Loss rate: 8.90%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-02 14:11:58

End at: 2018-02-02 14:12:28

Local clock offset: -1.261 ms

Remote clock offset: 2.947 ms

Below is generated by plot.py at 2018-02-02 17:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 67.455 ms

Loss rate: 5.99%

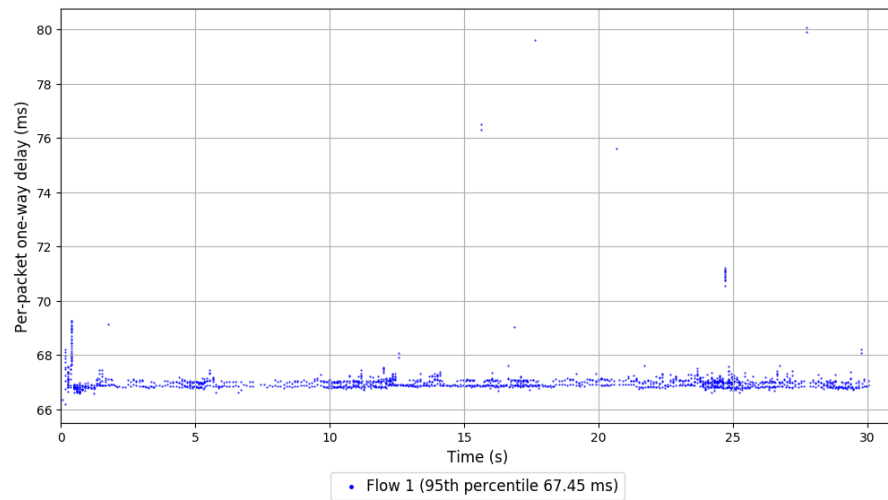
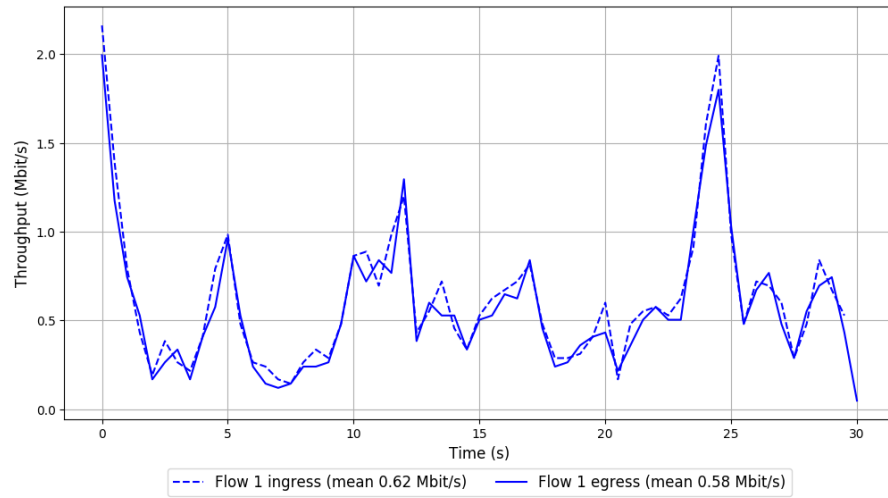
-- Flow 1:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 67.455 ms

Loss rate: 5.99%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-02 14:35:57

End at: 2018-02-02 14:36:27

Local clock offset: -0.737 ms

Remote clock offset: 3.675 ms

Below is generated by plot.py at 2018-02-02 17:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 66.767 ms

Loss rate: 8.14%

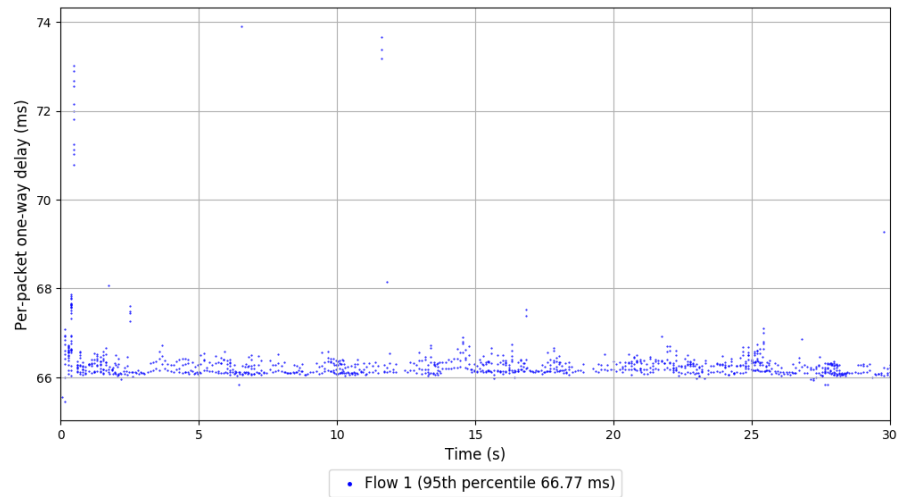
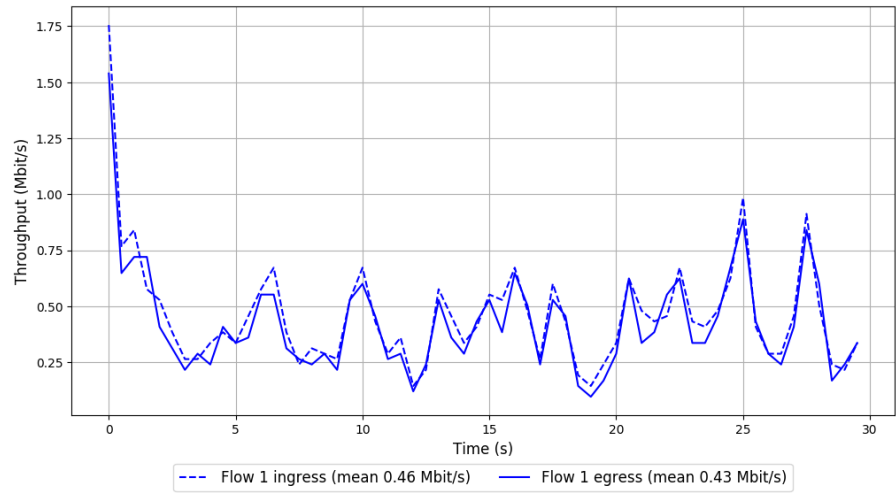
-- Flow 1:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 66.767 ms

Loss rate: 8.14%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-02 14:59:58

End at: 2018-02-02 15:00:28

Local clock offset: -0.625 ms

Remote clock offset: 3.781 ms

Below is generated by plot.py at 2018-02-02 17:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.61 Mbit/s

95th percentile per-packet one-way delay: 68.666 ms

Loss rate: 1.96%

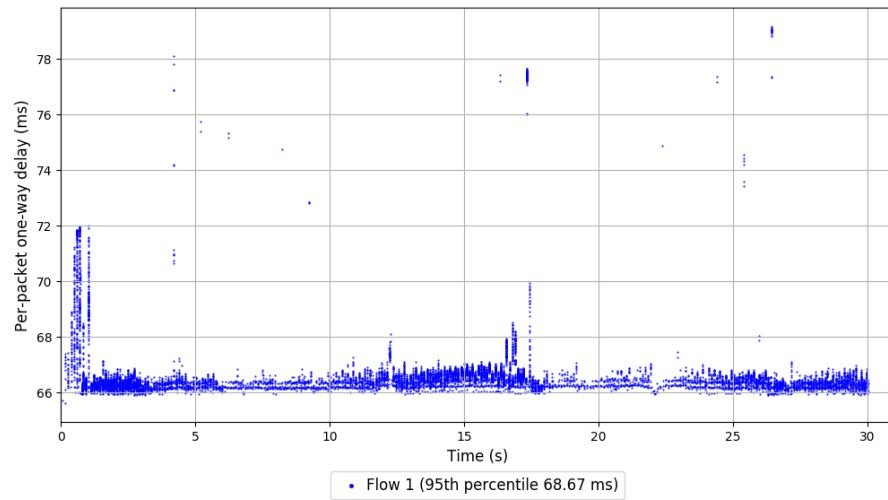
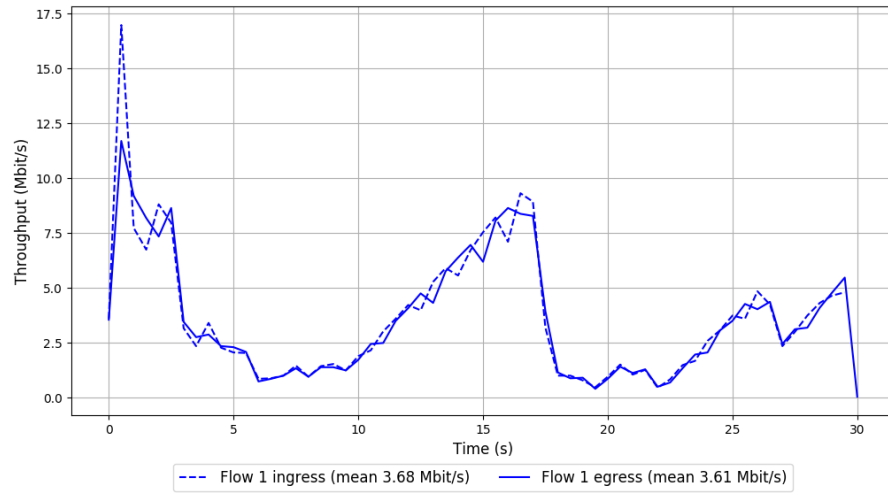
-- Flow 1:

Average throughput: 3.61 Mbit/s

95th percentile per-packet one-way delay: 68.666 ms

Loss rate: 1.96%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-02 15:23:48

End at: 2018-02-02 15:24:18

Local clock offset: -0.647 ms

Remote clock offset: 3.388 ms

Below is generated by plot.py at 2018-02-02 17:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.03 Mbit/s

95th percentile per-packet one-way delay: 68.601 ms

Loss rate: 4.05%

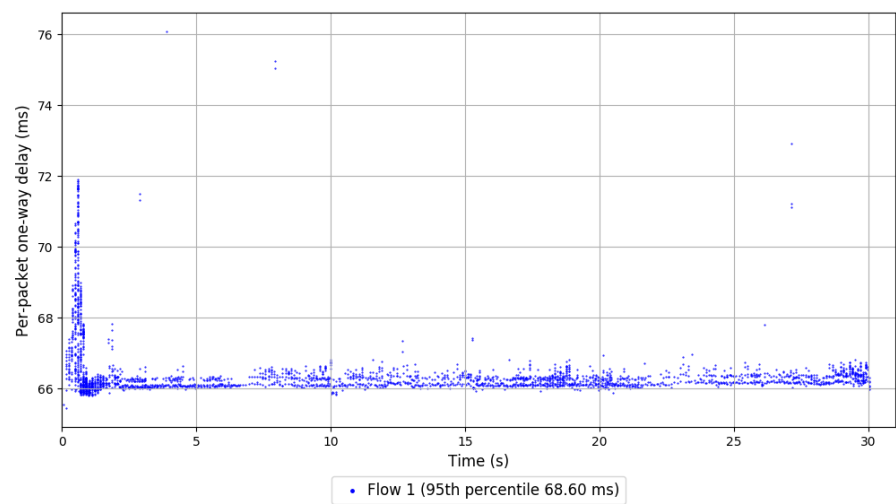
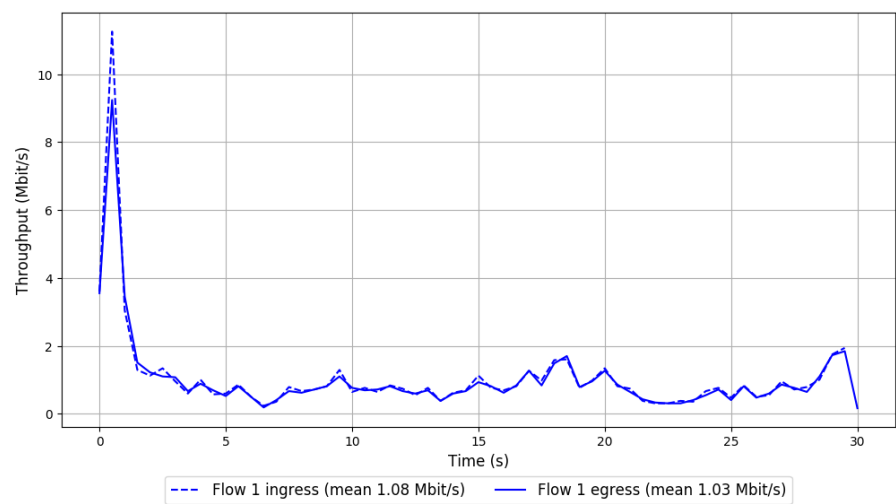
-- Flow 1:

Average throughput: 1.03 Mbit/s

95th percentile per-packet one-way delay: 68.601 ms

Loss rate: 4.05%

Run 7: Report of TCP Vegas — Data Link

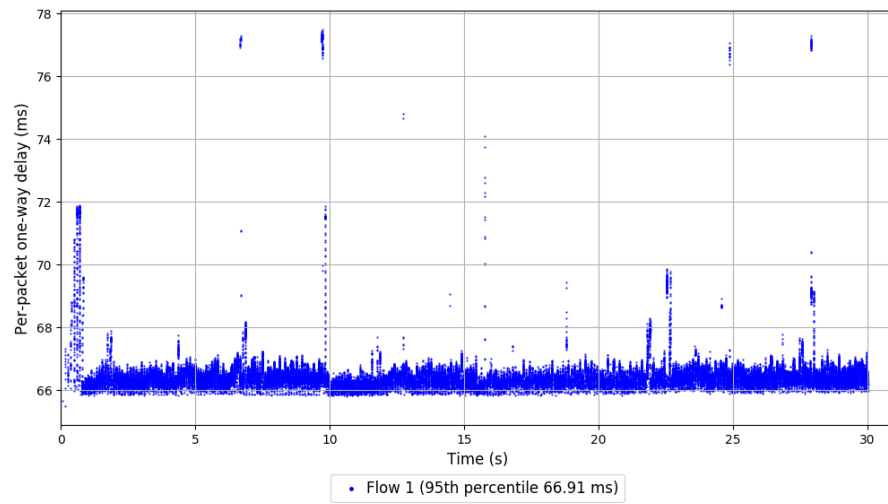
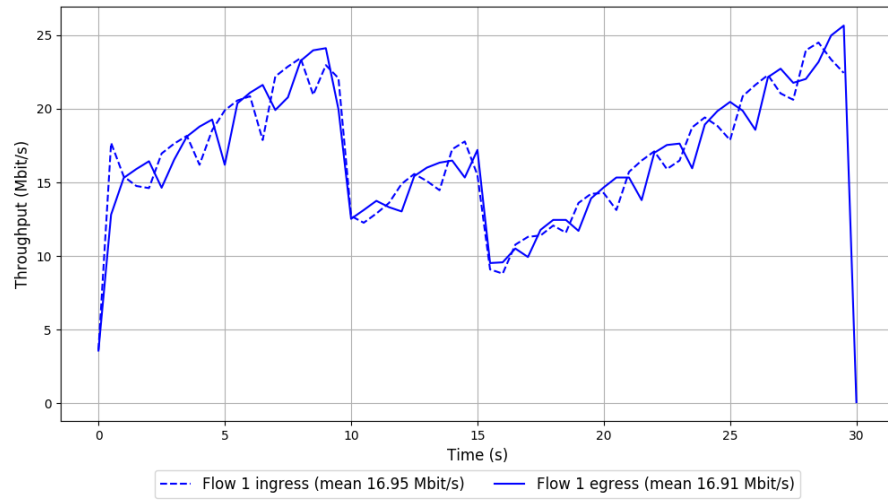


Run 8: Statistics of TCP Vegas

Start at: 2018-02-02 15:47:48
End at: 2018-02-02 15:48:18
Local clock offset: -0.869 ms
Remote clock offset: 1.237 ms

Below is generated by plot.py at 2018-02-02 17:42:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 16.91 Mbit/s
95th percentile per-packet one-way delay: 66.909 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 16.91 Mbit/s
95th percentile per-packet one-way delay: 66.909 ms
Loss rate: 0.22%

Run 8: Report of TCP Vegas — Data Link

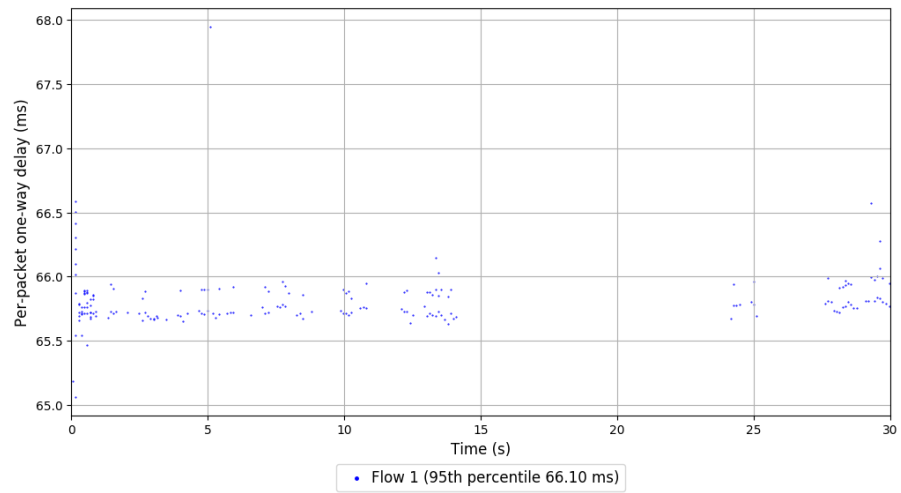
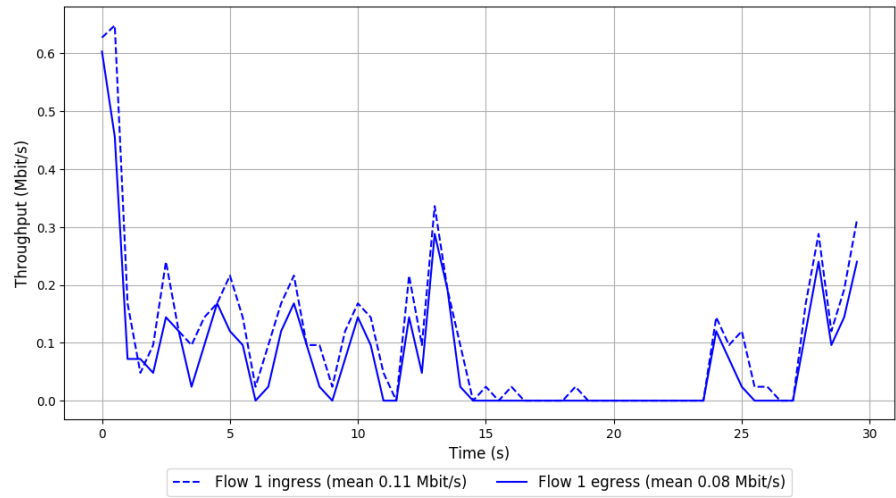


Run 9: Statistics of TCP Vegas

Start at: 2018-02-02 16:29:49
End at: 2018-02-02 16:30:19
Local clock offset: -0.53 ms
Remote clock offset: -0.321 ms

Below is generated by plot.py at 2018-02-02 17:42:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 66.102 ms
Loss rate: 29.57%
-- Flow 1:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 66.102 ms
Loss rate: 29.57%

Run 9: Report of TCP Vegas — Data Link

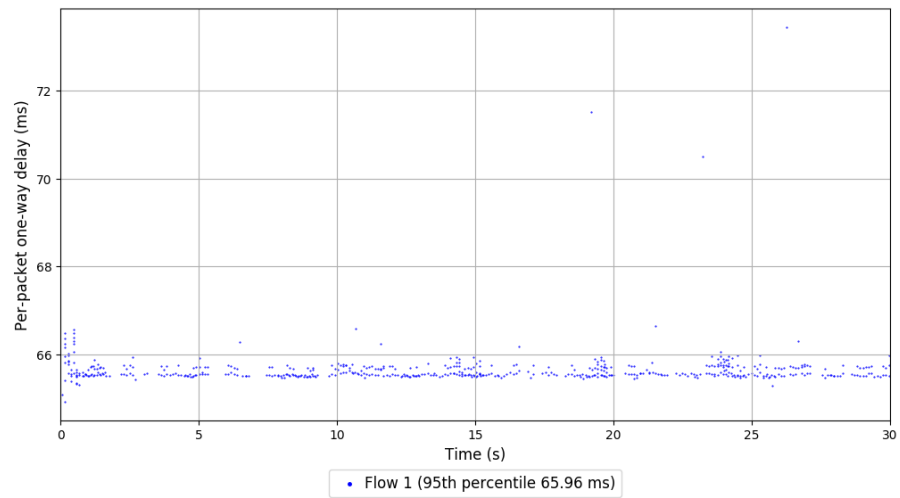
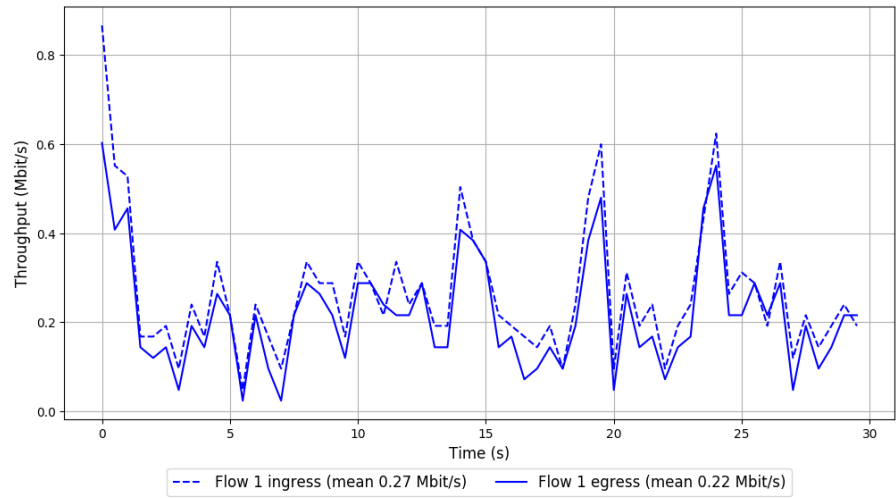


Run 10: Statistics of TCP Vegas

Start at: 2018-02-02 16:54:20
End at: 2018-02-02 16:54:50
Local clock offset: -0.239 ms
Remote clock offset: -0.252 ms

Below is generated by plot.py at 2018-02-02 17:42:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 65.963 ms
Loss rate: 17.92%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 65.963 ms
Loss rate: 17.92%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-02-02 13:18:50

End at: 2018-02-02 13:19:20

Local clock offset: -0.214 ms

Remote clock offset: 1.393 ms

Below is generated by plot.py at 2018-02-02 17:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.64 Mbit/s

95th percentile per-packet one-way delay: 72.905 ms

Loss rate: 83.36%

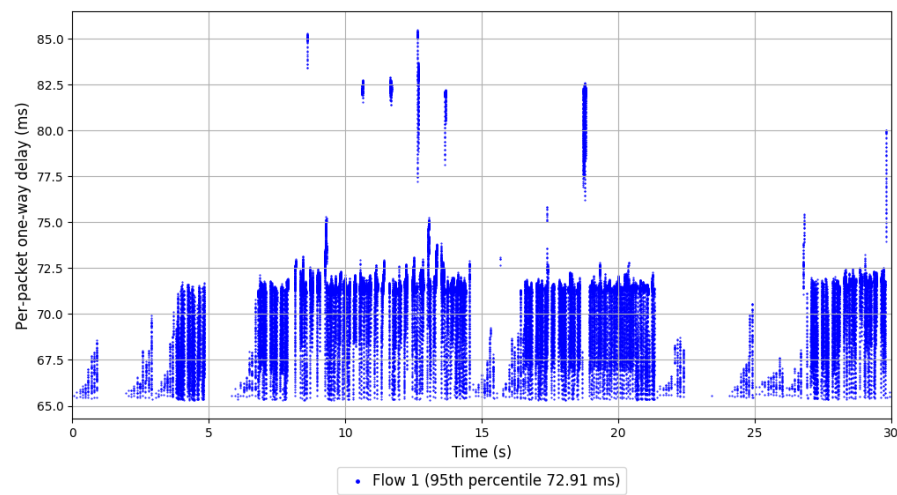
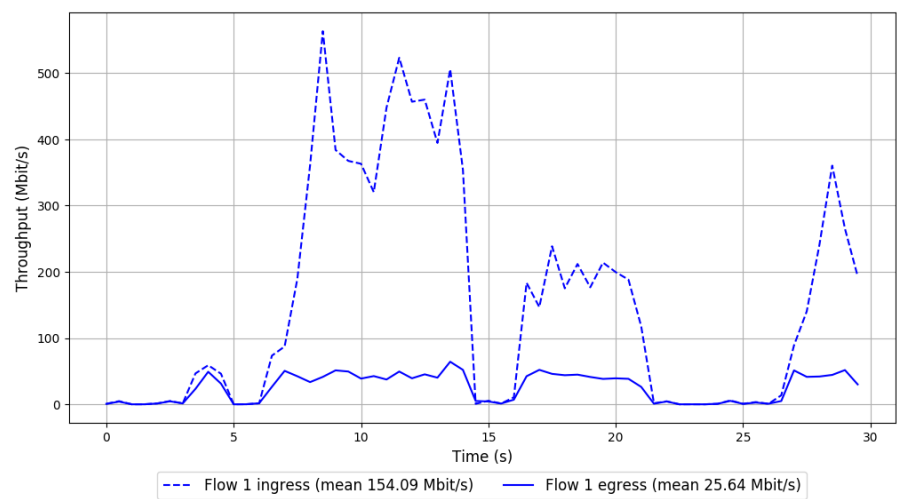
-- Flow 1:

Average throughput: 25.64 Mbit/s

95th percentile per-packet one-way delay: 72.905 ms

Loss rate: 83.36%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-02 13:42:44

End at: 2018-02-02 13:43:14

Local clock offset: -0.618 ms

Remote clock offset: 2.181 ms

Below is generated by plot.py at 2018-02-02 17:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.30 Mbit/s

95th percentile per-packet one-way delay: 78.148 ms

Loss rate: 88.46%

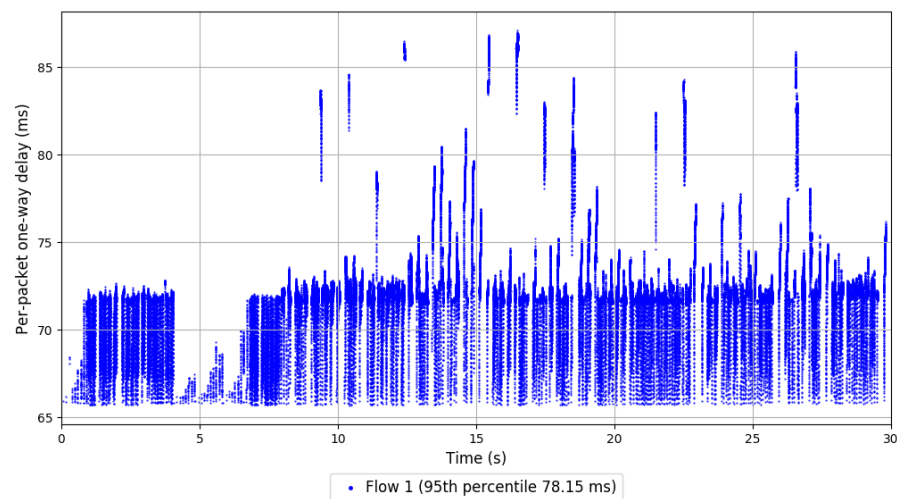
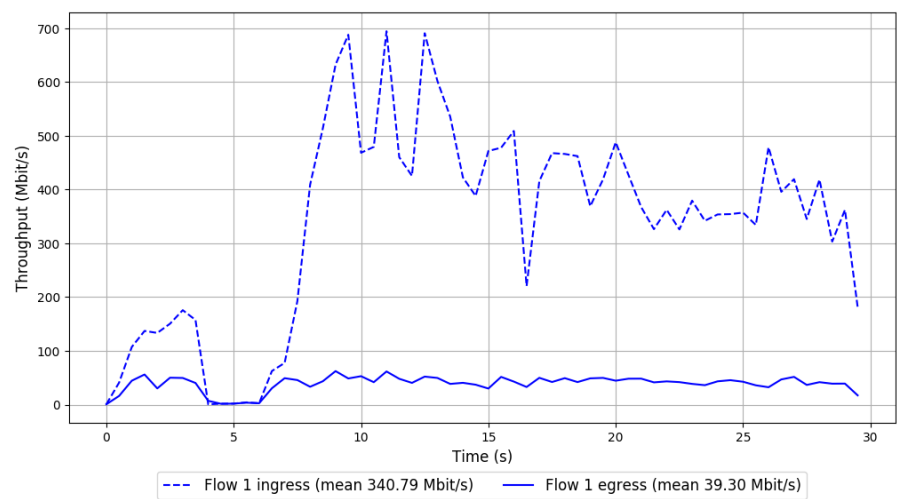
-- Flow 1:

Average throughput: 39.30 Mbit/s

95th percentile per-packet one-way delay: 78.148 ms

Loss rate: 88.46%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-02 14:06:39

End at: 2018-02-02 14:07:10

Local clock offset: -0.799 ms

Remote clock offset: 2.792 ms

Below is generated by plot.py at 2018-02-02 17:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.41 Mbit/s

95th percentile per-packet one-way delay: 81.012 ms

Loss rate: 83.39%

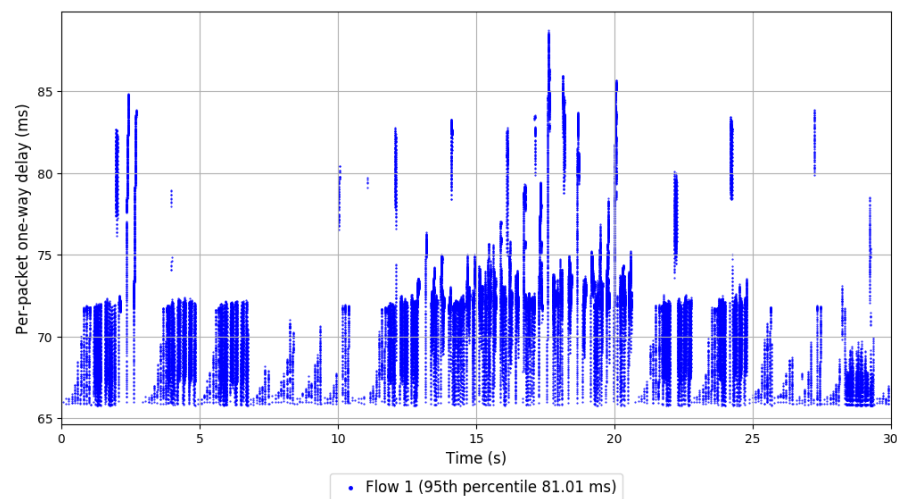
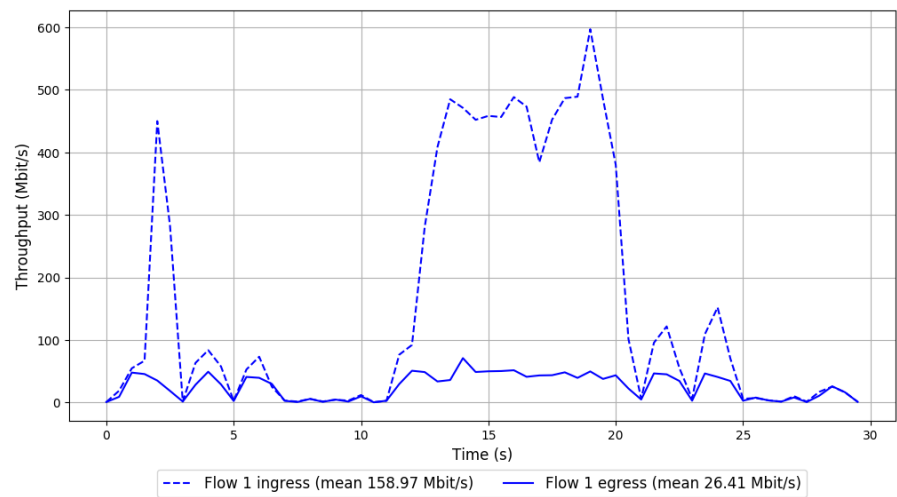
-- Flow 1:

Average throughput: 26.41 Mbit/s

95th percentile per-packet one-way delay: 81.012 ms

Loss rate: 83.39%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-02 14:30:37

End at: 2018-02-02 14:31:07

Local clock offset: -0.634 ms

Remote clock offset: 3.504 ms

Below is generated by plot.py at 2018-02-02 17:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.01 Mbit/s

95th percentile per-packet one-way delay: 79.141 ms

Loss rate: 84.66%

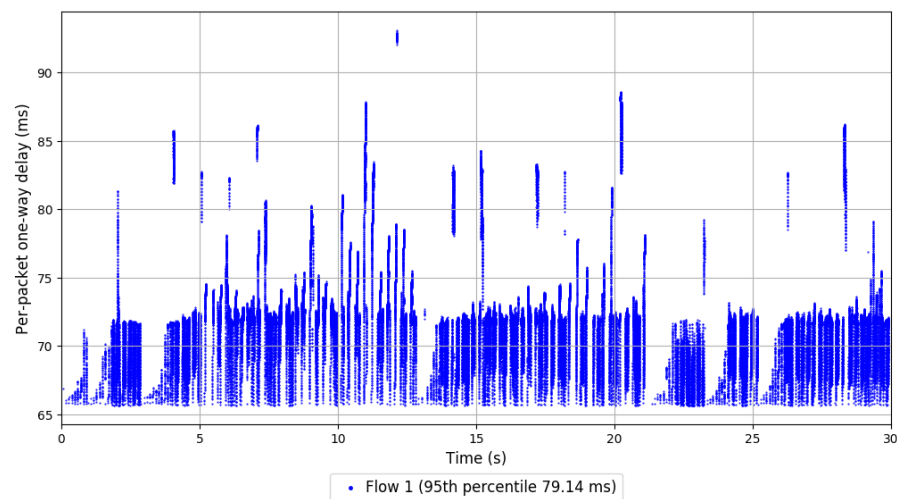
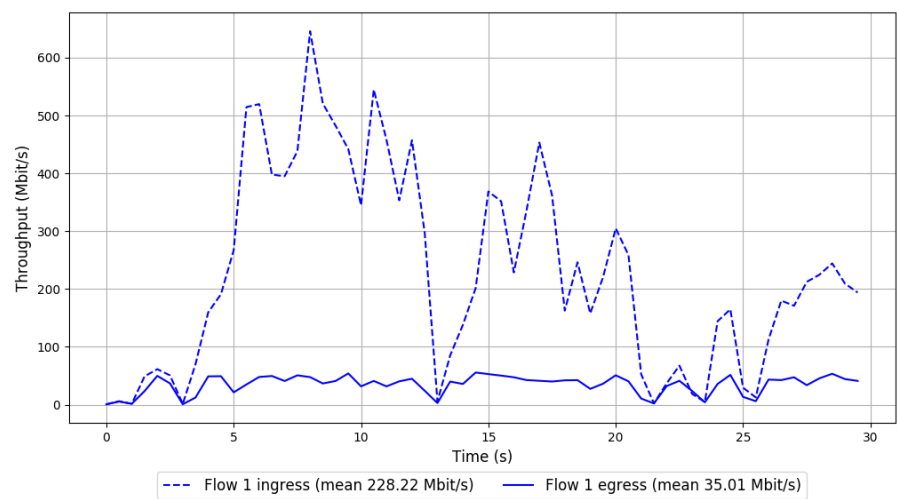
-- Flow 1:

Average throughput: 35.01 Mbit/s

95th percentile per-packet one-way delay: 79.141 ms

Loss rate: 84.66%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-02 14:54:34

End at: 2018-02-02 14:55:04

Local clock offset: -0.665 ms

Remote clock offset: 3.753 ms

Below is generated by plot.py at 2018-02-02 17:43:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.43 Mbit/s

95th percentile per-packet one-way delay: 104.701 ms

Loss rate: 90.73%

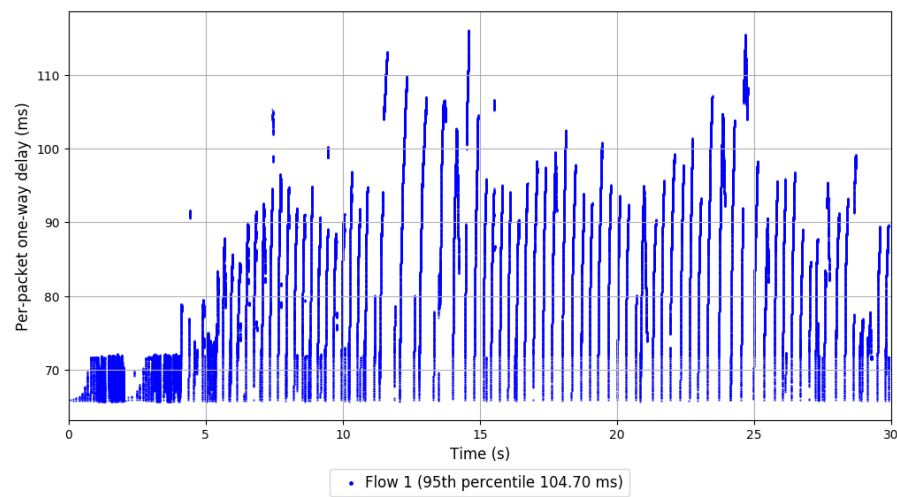
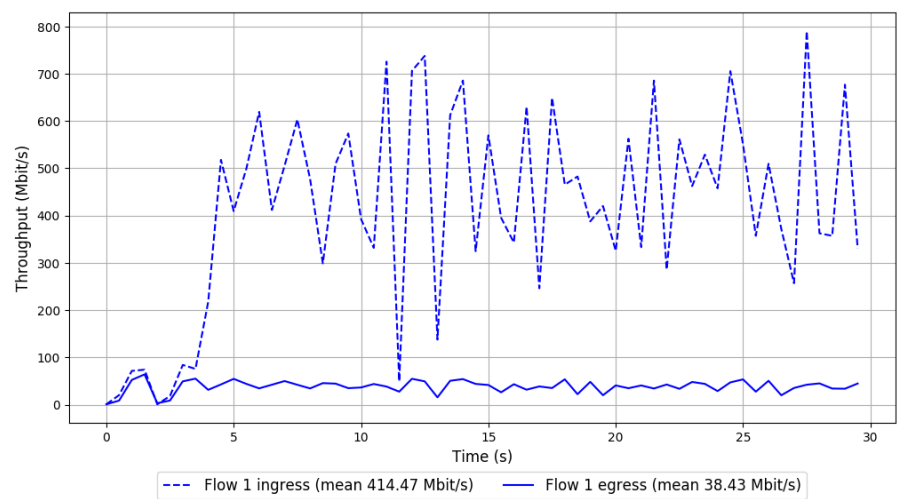
-- Flow 1:

Average throughput: 38.43 Mbit/s

95th percentile per-packet one-way delay: 104.701 ms

Loss rate: 90.73%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-02 15:18:27

End at: 2018-02-02 15:18:57

Local clock offset: -0.424 ms

Remote clock offset: 3.556 ms

Below is generated by plot.py at 2018-02-02 17:43:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.27 Mbit/s

95th percentile per-packet one-way delay: 78.174 ms

Loss rate: 82.64%

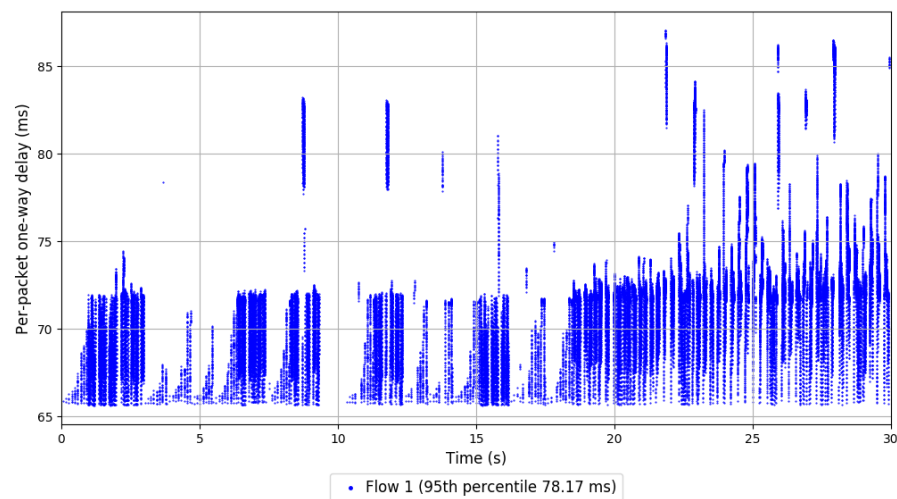
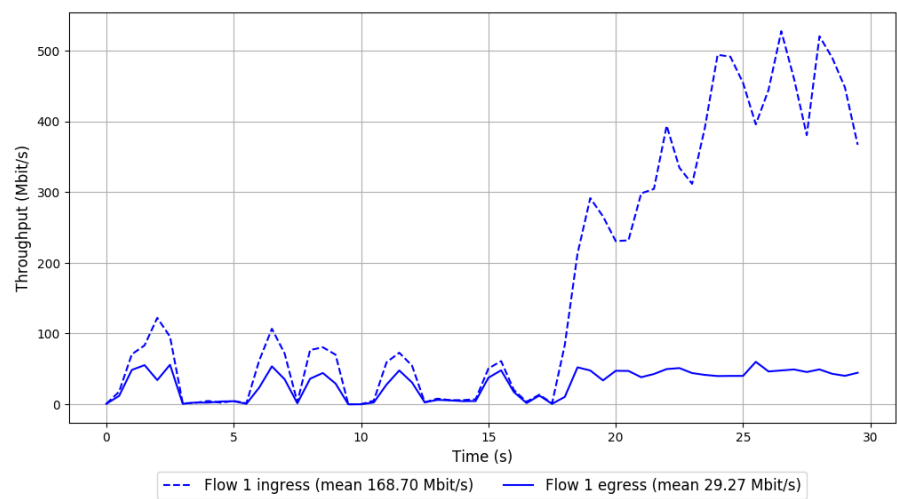
-- Flow 1:

Average throughput: 29.27 Mbit/s

95th percentile per-packet one-way delay: 78.174 ms

Loss rate: 82.64%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-02 15:42:25

End at: 2018-02-02 15:42:55

Local clock offset: -0.745 ms

Remote clock offset: 1.584 ms

Below is generated by plot.py at 2018-02-02 17:43:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.87 Mbit/s

95th percentile per-packet one-way delay: 96.221 ms

Loss rate: 83.51%

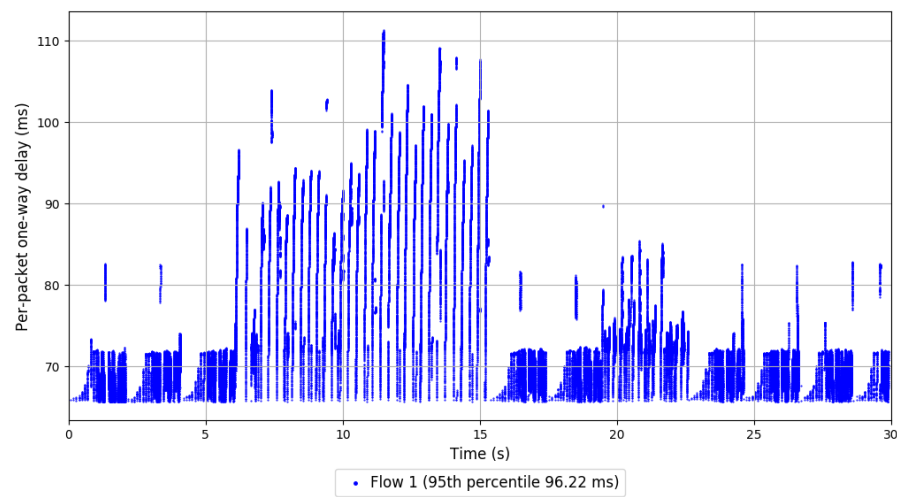
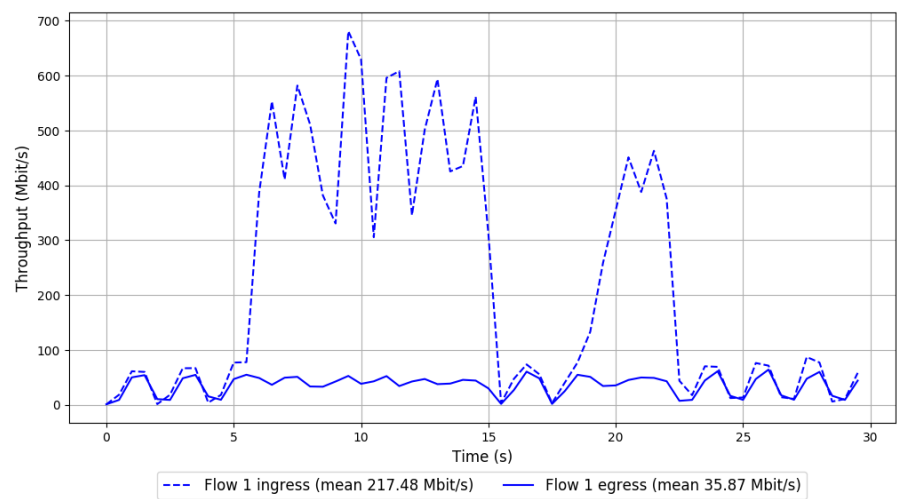
-- Flow 1:

Average throughput: 35.87 Mbit/s

95th percentile per-packet one-way delay: 96.221 ms

Loss rate: 83.51%

Run 7: Report of Verus — Data Link

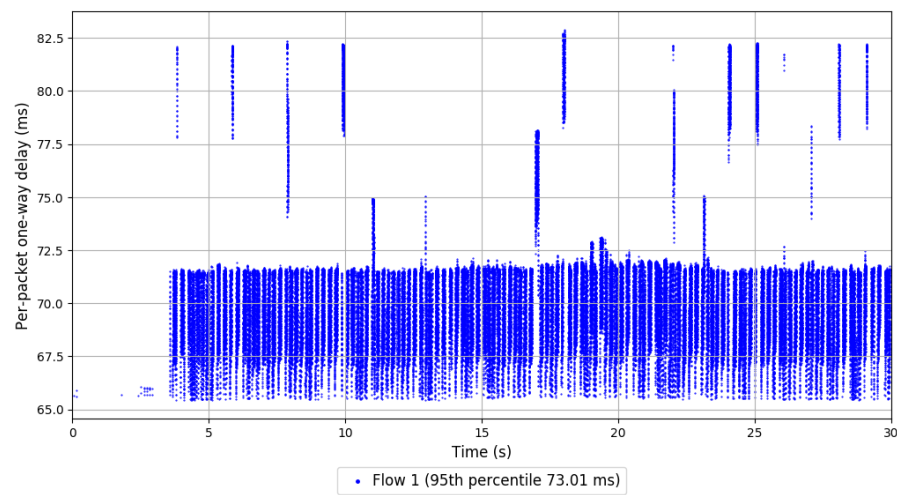
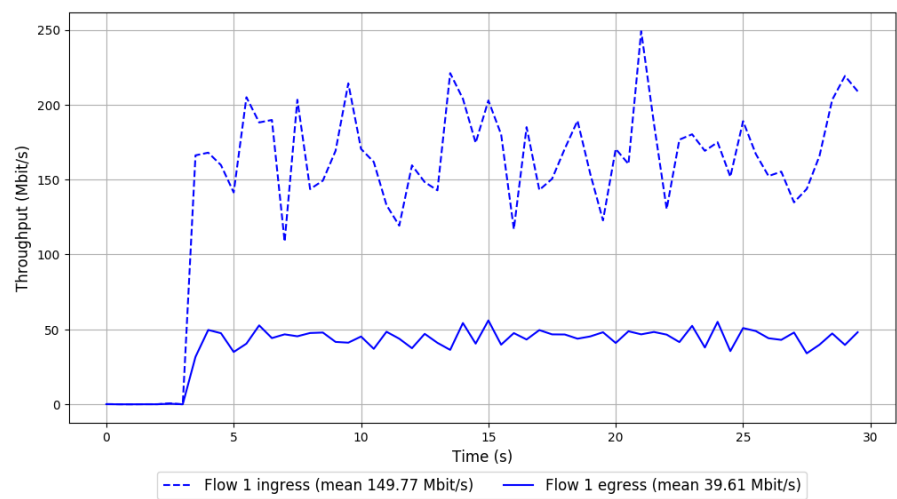


Run 8: Statistics of Verus

Start at: 2018-02-02 16:22:56
End at: 2018-02-02 16:23:26
Local clock offset: -0.669 ms
Remote clock offset: -0.262 ms

Below is generated by plot.py at 2018-02-02 17:43:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 39.61 Mbit/s
95th percentile per-packet one-way delay: 73.010 ms
Loss rate: 73.55%
-- Flow 1:
Average throughput: 39.61 Mbit/s
95th percentile per-packet one-way delay: 73.010 ms
Loss rate: 73.55%

Run 8: Report of Verus — Data Link

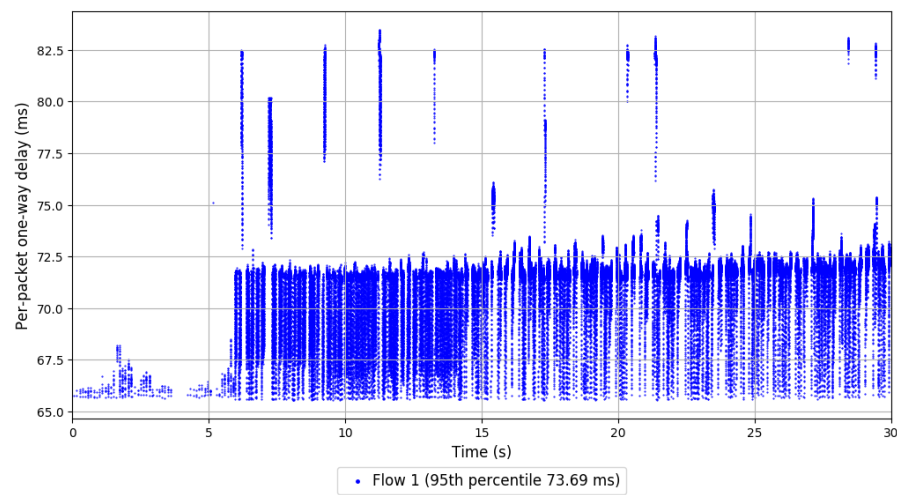
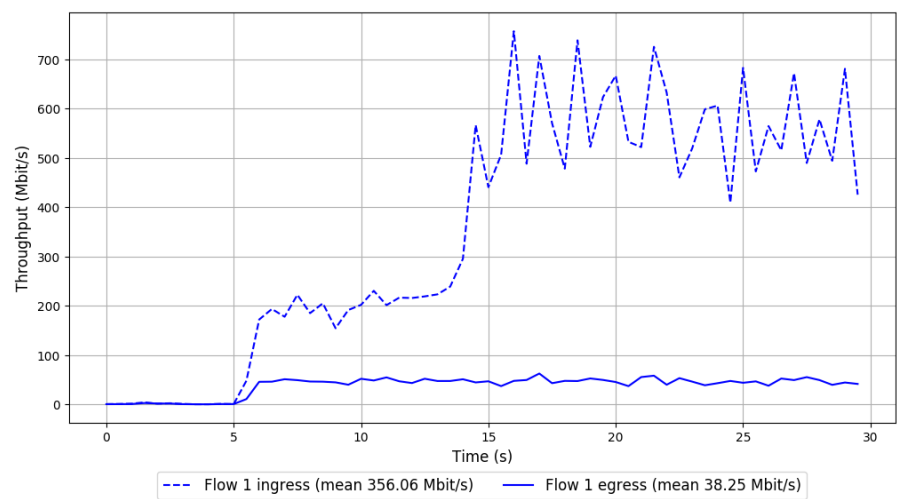


Run 9: Statistics of Verus

Start at: 2018-02-02 16:48:47
End at: 2018-02-02 16:49:17
Local clock offset: -0.577 ms
Remote clock offset: -0.218 ms

Below is generated by plot.py at 2018-02-02 17:43:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 38.25 Mbit/s
95th percentile per-packet one-way delay: 73.688 ms
Loss rate: 89.25%
-- Flow 1:
Average throughput: 38.25 Mbit/s
95th percentile per-packet one-way delay: 73.688 ms
Loss rate: 89.25%

Run 9: Report of Verus — Data Link

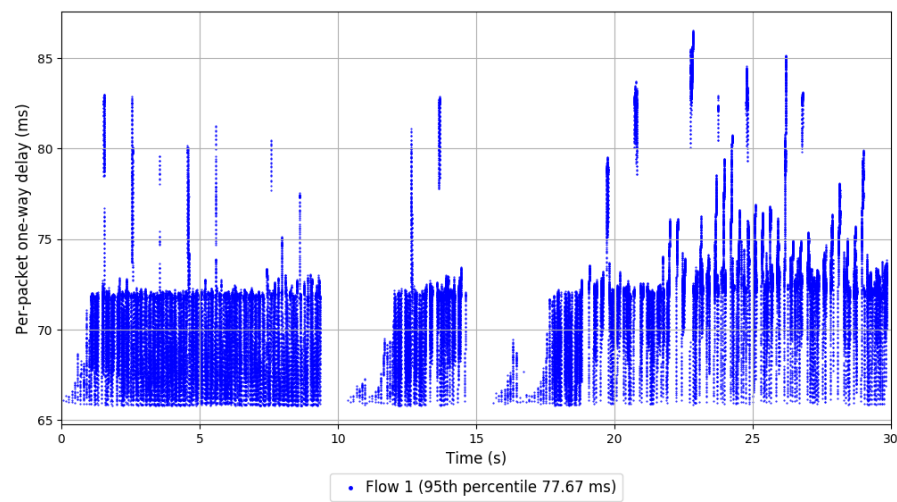
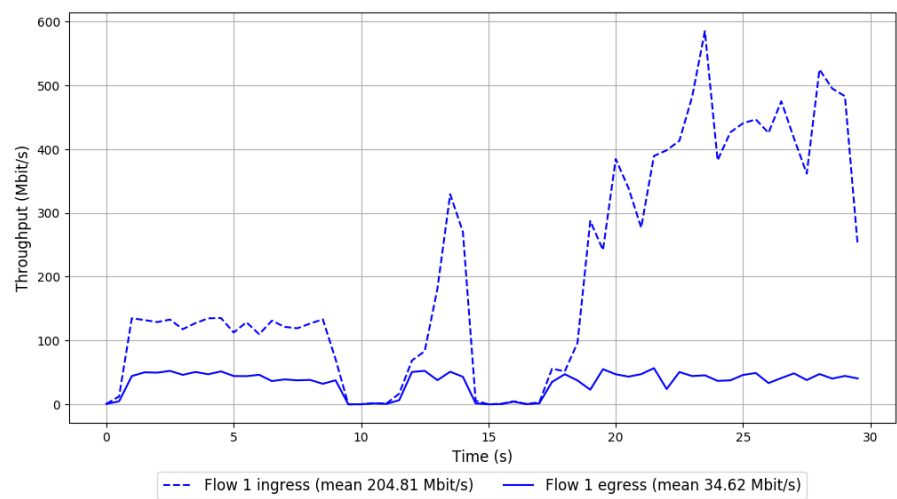


Run 10: Statistics of Verus

Start at: 2018-02-02 17:12:52
End at: 2018-02-02 17:13:22
Local clock offset: -0.749 ms
Remote clock offset: -0.122 ms

Below is generated by plot.py at 2018-02-02 17:43:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 34.62 Mbit/s
95th percentile per-packet one-way delay: 77.674 ms
Loss rate: 83.09%
-- Flow 1:
Average throughput: 34.62 Mbit/s
95th percentile per-packet one-way delay: 77.674 ms
Loss rate: 83.09%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-02-02 13:10:52

End at: 2018-02-02 13:11:22

Local clock offset: -0.455 ms

Remote clock offset: 1.171 ms

Below is generated by plot.py at 2018-02-02 17:43:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.55 Mbit/s

95th percentile per-packet one-way delay: 66.210 ms

Loss rate: 8.29%

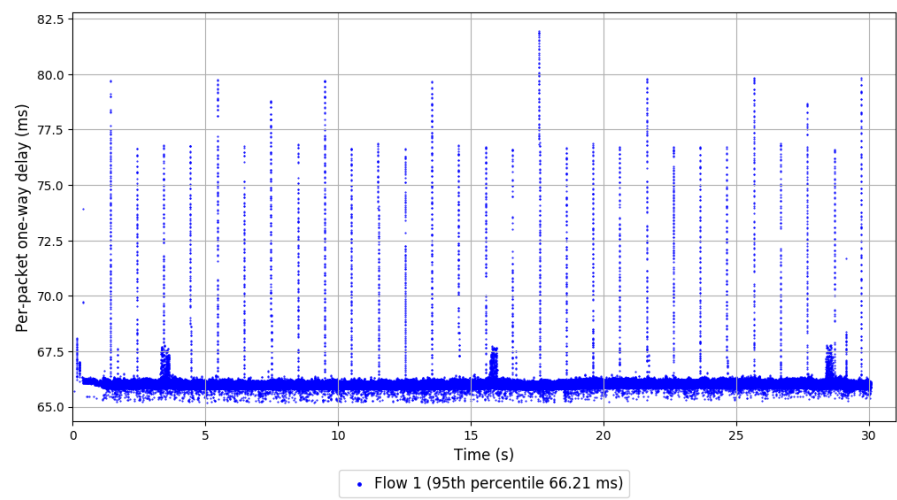
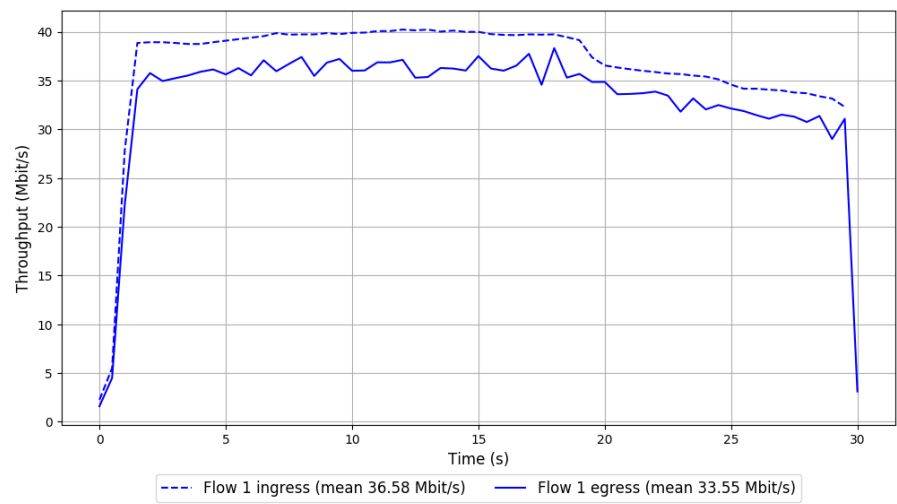
-- Flow 1:

Average throughput: 33.55 Mbit/s

95th percentile per-packet one-way delay: 66.210 ms

Loss rate: 8.29%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-02 13:34:49

End at: 2018-02-02 13:35:19

Local clock offset: -0.597 ms

Remote clock offset: 1.958 ms

Below is generated by plot.py at 2018-02-02 17:43:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.62 Mbit/s

95th percentile per-packet one-way delay: 66.080 ms

Loss rate: 7.68%

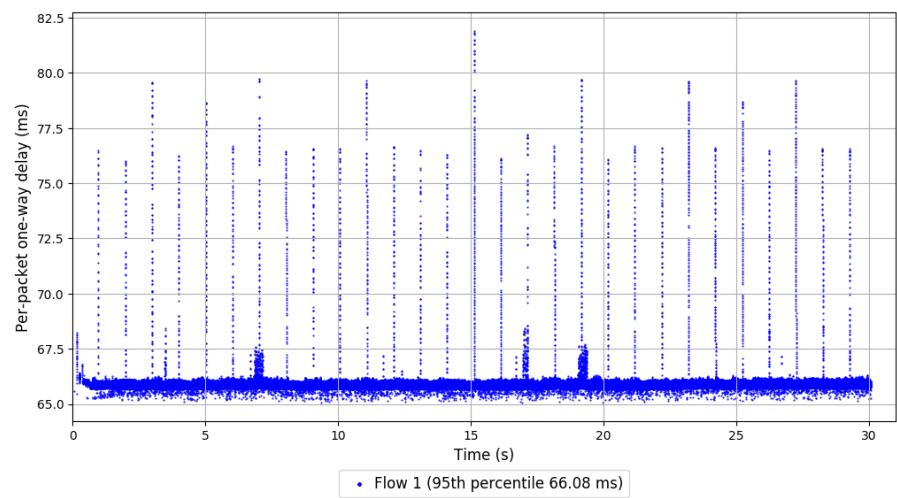
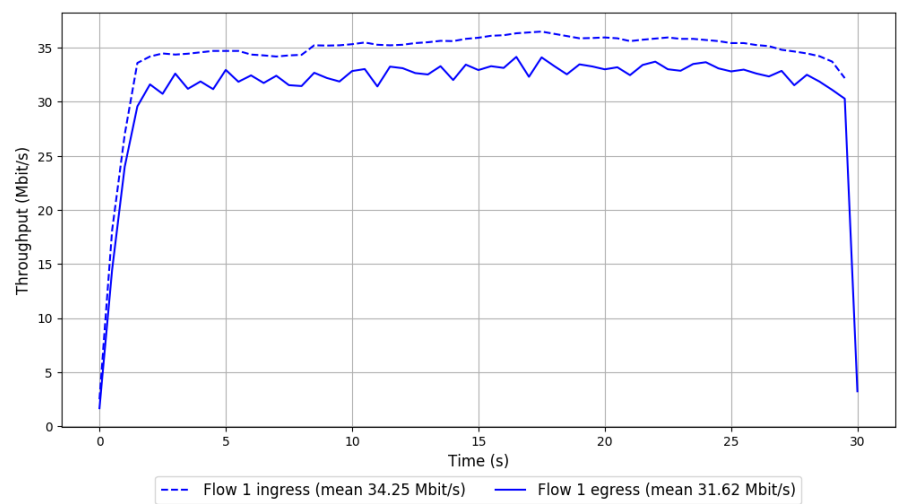
-- Flow 1:

Average throughput: 31.62 Mbit/s

95th percentile per-packet one-way delay: 66.080 ms

Loss rate: 7.68%

Run 2: Report of Copa — Data Link

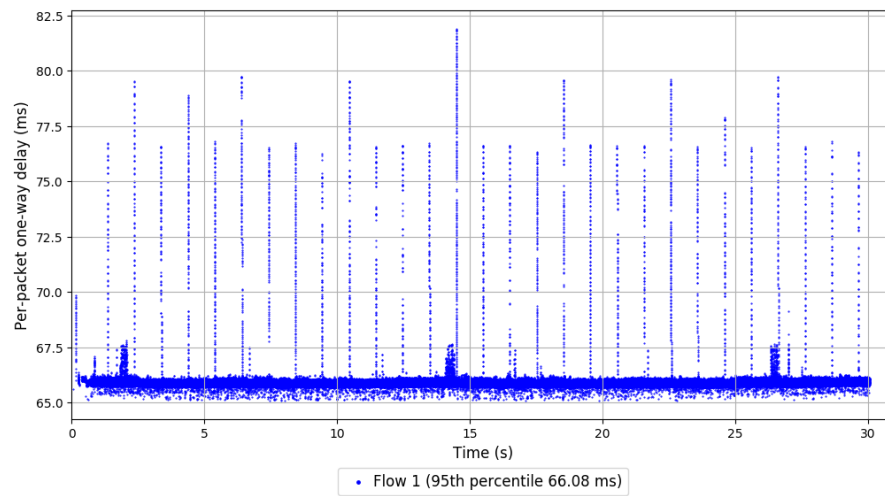
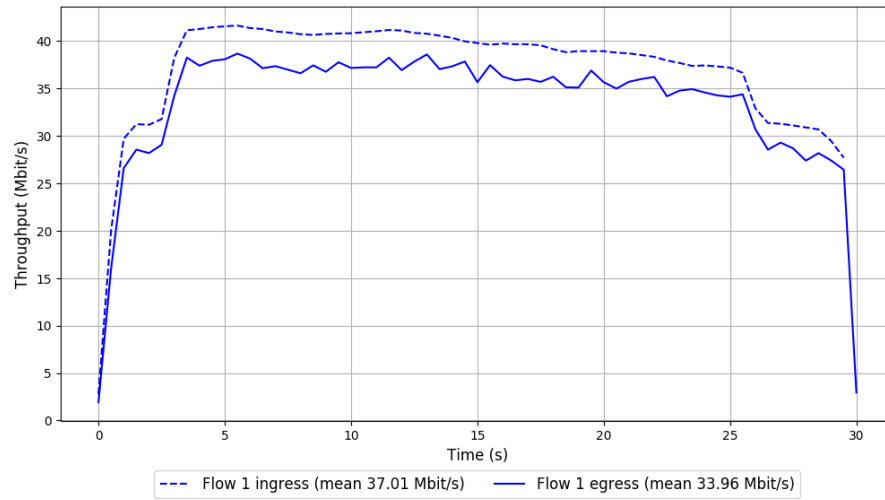


Run 3: Statistics of Copa

Start at: 2018-02-02 13:58:43
End at: 2018-02-02 13:59:14
Local clock offset: -0.672 ms
Remote clock offset: 2.584 ms

Below is generated by plot.py at 2018-02-02 17:43:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 33.96 Mbit/s
95th percentile per-packet one-way delay: 66.084 ms
Loss rate: 8.24%
-- Flow 1:
Average throughput: 33.96 Mbit/s
95th percentile per-packet one-way delay: 66.084 ms
Loss rate: 8.24%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-02 14:22:42

End at: 2018-02-02 14:23:12

Local clock offset: -0.688 ms

Remote clock offset: 3.259 ms

Below is generated by plot.py at 2018-02-02 17:43:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.11 Mbit/s

95th percentile per-packet one-way delay: 66.057 ms

Loss rate: 7.37%

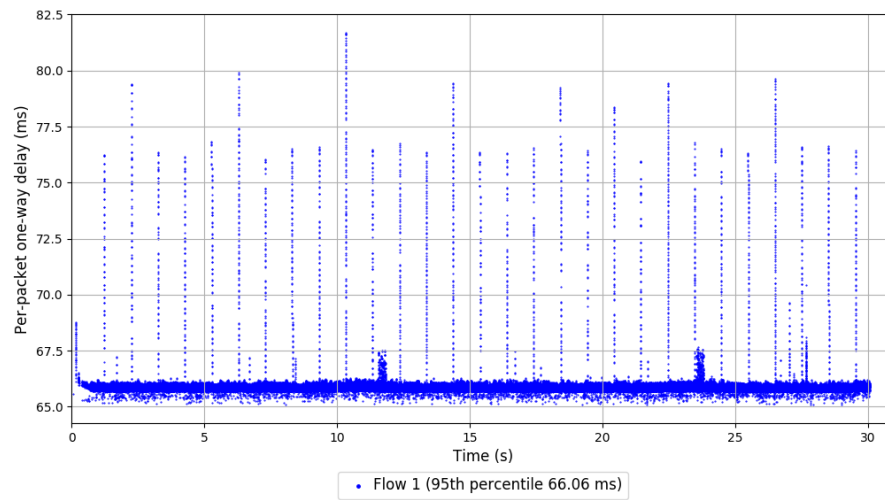
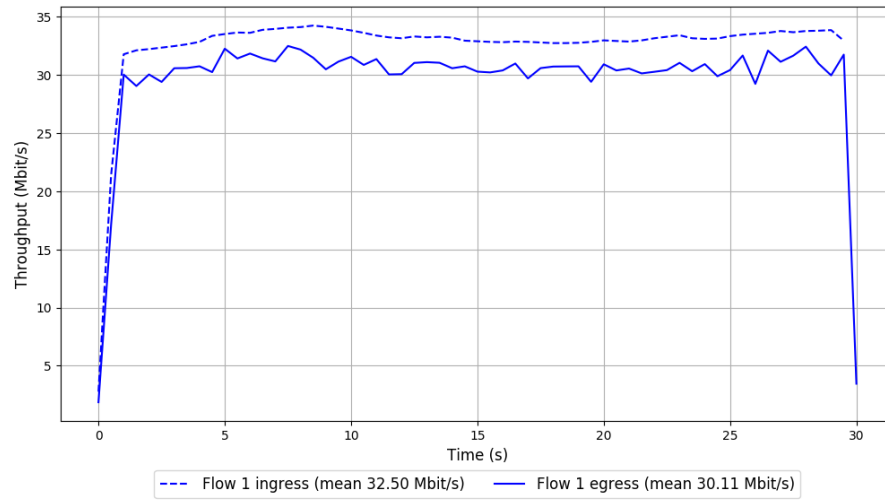
-- Flow 1:

Average throughput: 30.11 Mbit/s

95th percentile per-packet one-way delay: 66.057 ms

Loss rate: 7.37%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-02 14:46:37

End at: 2018-02-02 14:47:07

Local clock offset: -0.474 ms

Remote clock offset: 3.707 ms

Below is generated by plot.py at 2018-02-02 17:43:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.26 Mbit/s

95th percentile per-packet one-way delay: 66.109 ms

Loss rate: 2.06%

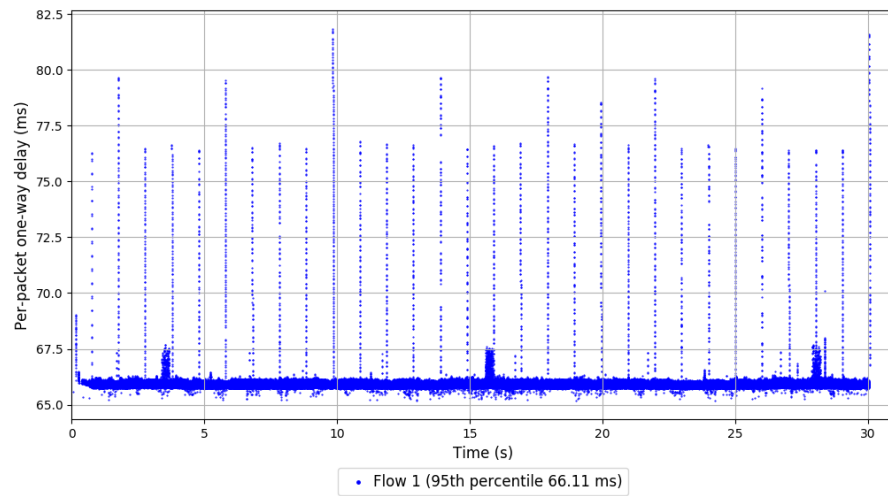
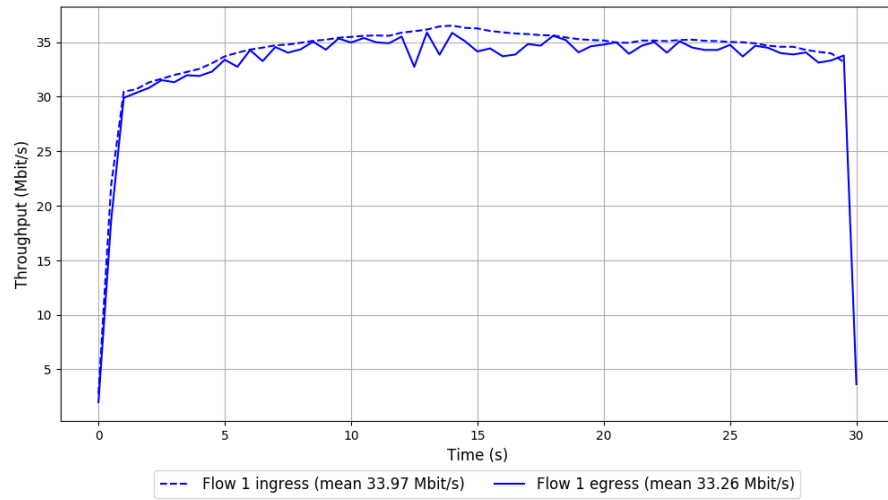
-- Flow 1:

Average throughput: 33.26 Mbit/s

95th percentile per-packet one-way delay: 66.109 ms

Loss rate: 2.06%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

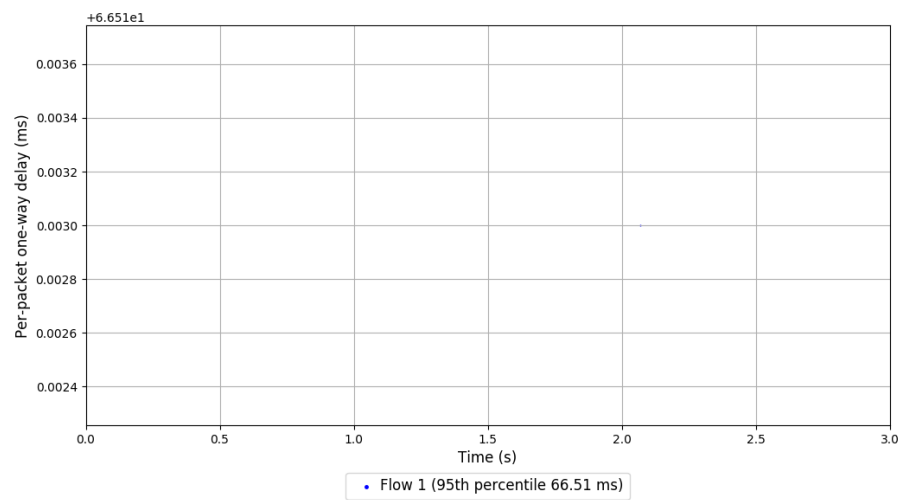
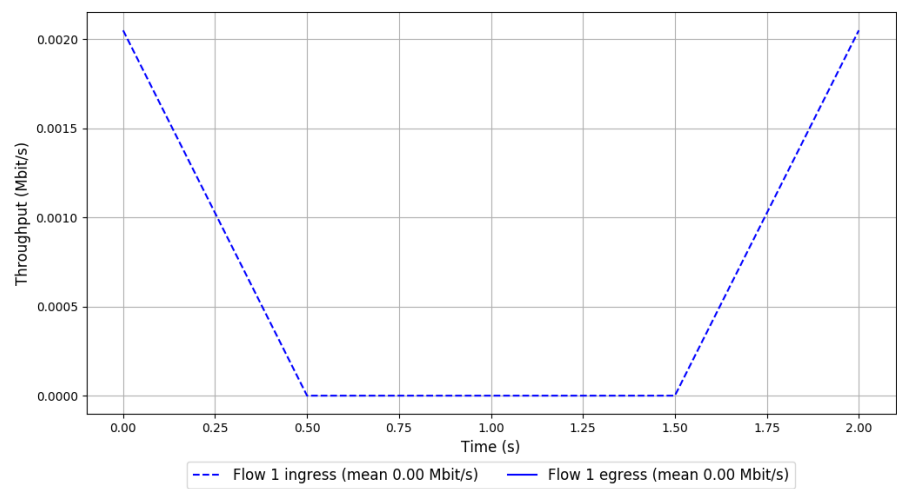
Start at: 2018-02-02 15:10:36

End at: 2018-02-02 15:11:06

Local clock offset: -0.425 ms

Remote clock offset: 3.993 ms

Run 6: Report of Copa — Data Link

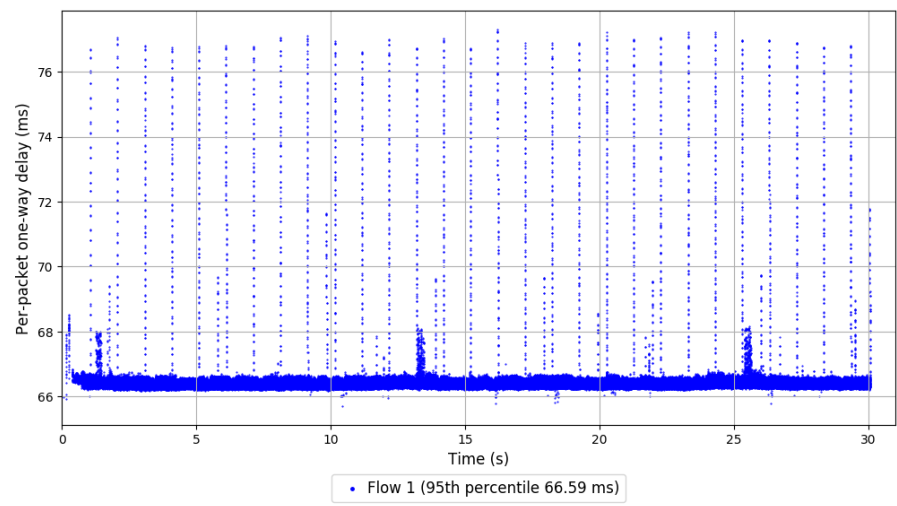
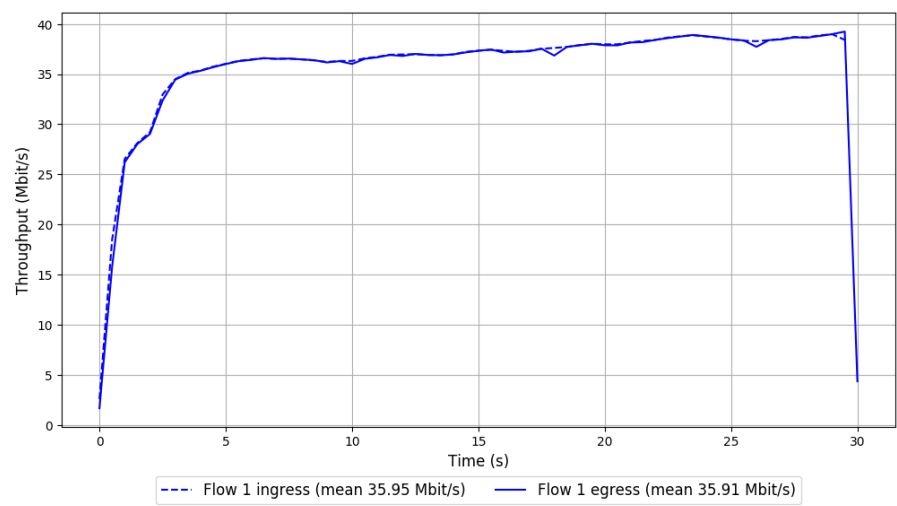


Run 7: Statistics of Copa

Start at: 2018-02-02 15:34:25
End at: 2018-02-02 15:34:55
Local clock offset: -0.888 ms
Remote clock offset: 2.37 ms

Below is generated by plot.py at 2018-02-02 17:44:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 35.91 Mbit/s
95th percentile per-packet one-way delay: 66.589 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 35.91 Mbit/s
95th percentile per-packet one-way delay: 66.589 ms
Loss rate: 0.12%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-02 15:58:28

End at: 2018-02-02 15:58:58

Local clock offset: -0.686 ms

Remote clock offset: 0.971 ms

Below is generated by plot.py at 2018-02-02 17:44:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.51 Mbit/s

95th percentile per-packet one-way delay: 65.999 ms

Loss rate: 0.00%

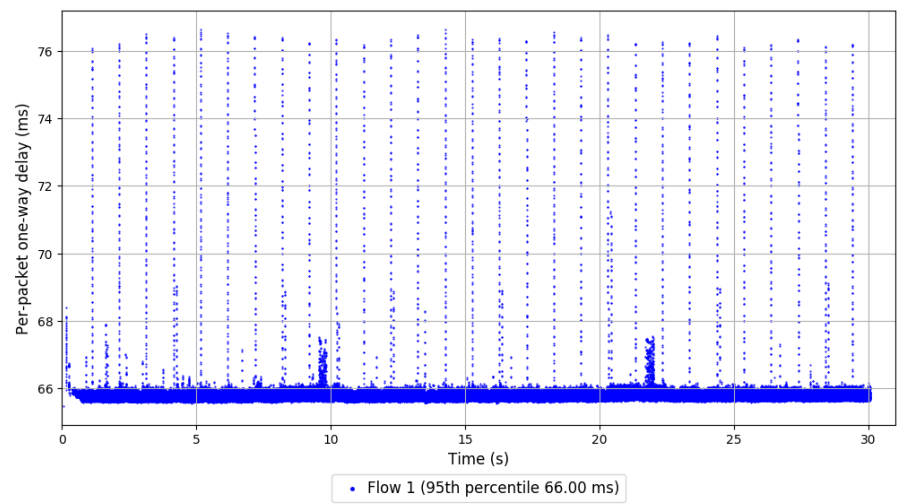
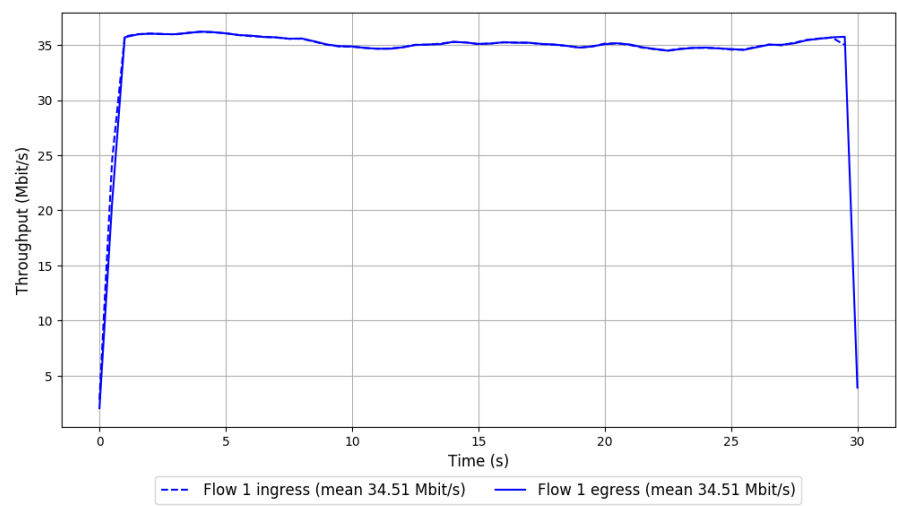
-- Flow 1:

Average throughput: 34.51 Mbit/s

95th percentile per-packet one-way delay: 65.999 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link

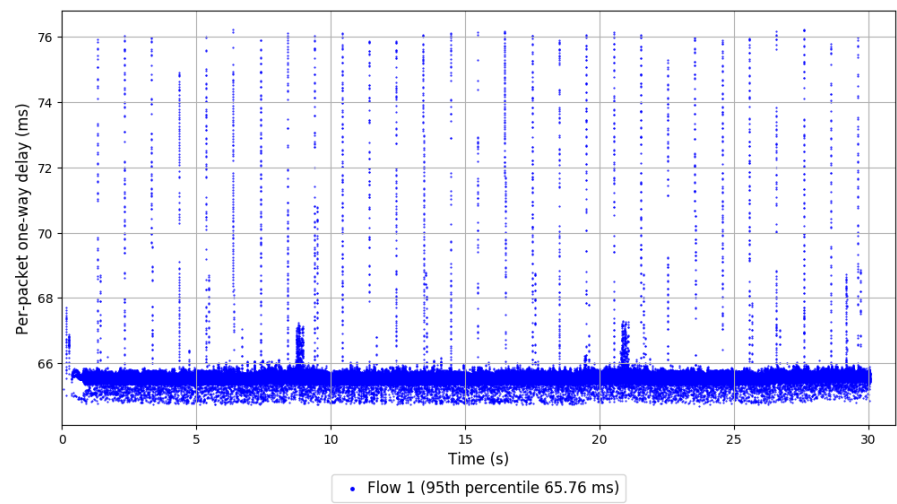
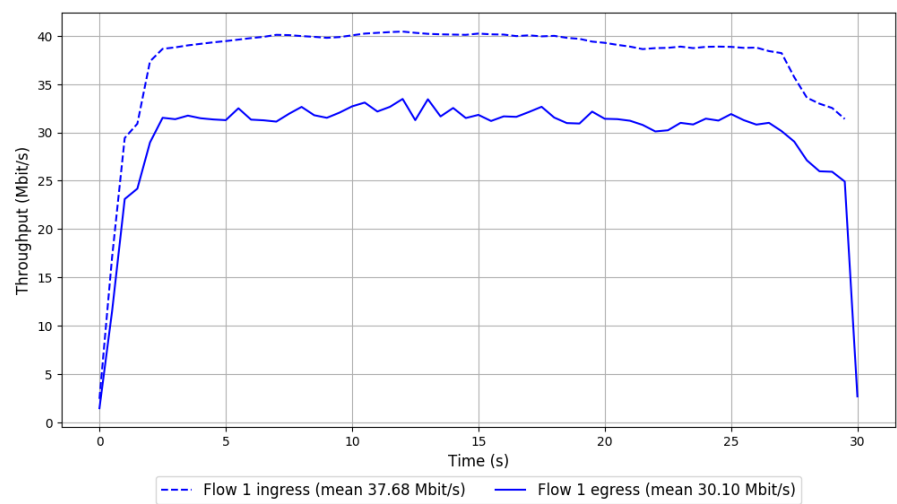


Run 9: Statistics of Copa

Start at: 2018-02-02 16:40:44
End at: 2018-02-02 16:41:14
Local clock offset: -0.502 ms
Remote clock offset: -0.352 ms

Below is generated by plot.py at 2018-02-02 17:44:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 30.10 Mbit/s
95th percentile per-packet one-way delay: 65.762 ms
Loss rate: 20.12%
-- Flow 1:
Average throughput: 30.10 Mbit/s
95th percentile per-packet one-way delay: 65.762 ms
Loss rate: 20.12%

Run 9: Report of Copa — Data Link

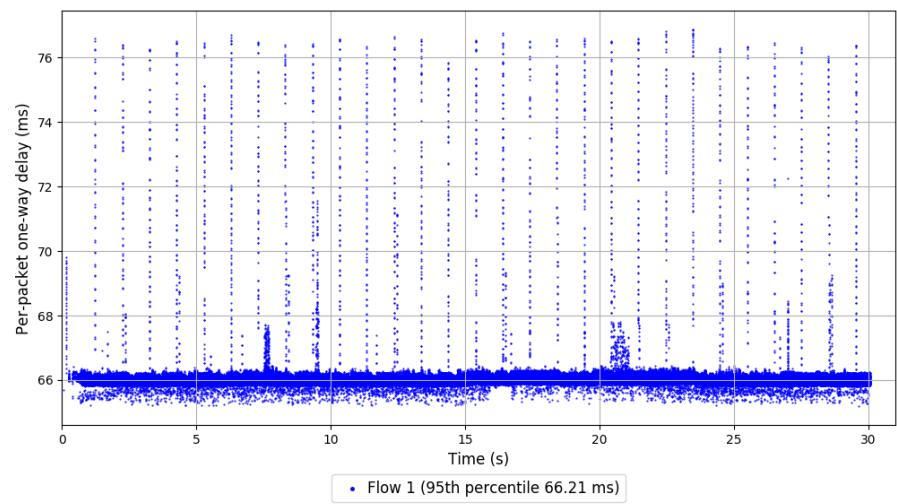
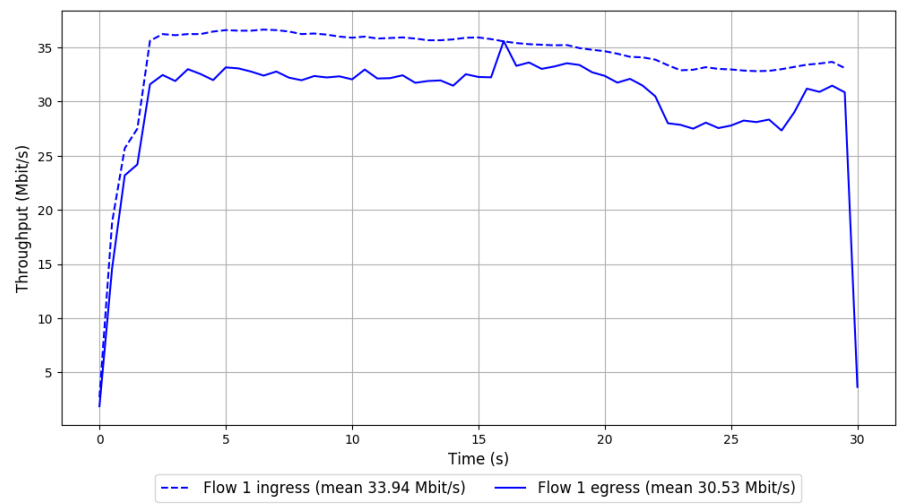


Run 10: Statistics of Copa

Start at: 2018-02-02 17:04:56
End at: 2018-02-02 17:05:26
Local clock offset: -1.001 ms
Remote clock offset: -0.171 ms

Below is generated by plot.py at 2018-02-02 17:44:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 30.53 Mbit/s
95th percentile per-packet one-way delay: 66.212 ms
Loss rate: 10.04%
-- Flow 1:
Average throughput: 30.53 Mbit/s
95th percentile per-packet one-way delay: 66.212 ms
Loss rate: 10.04%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-02-02 13:14:49

End at: 2018-02-02 13:15:19

Local clock offset: -0.609 ms

Remote clock offset: 1.312 ms

Below is generated by plot.py at 2018-02-02 17:45:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.35 Mbit/s

95th percentile per-packet one-way delay: 72.482 ms

Loss rate: 12.06%

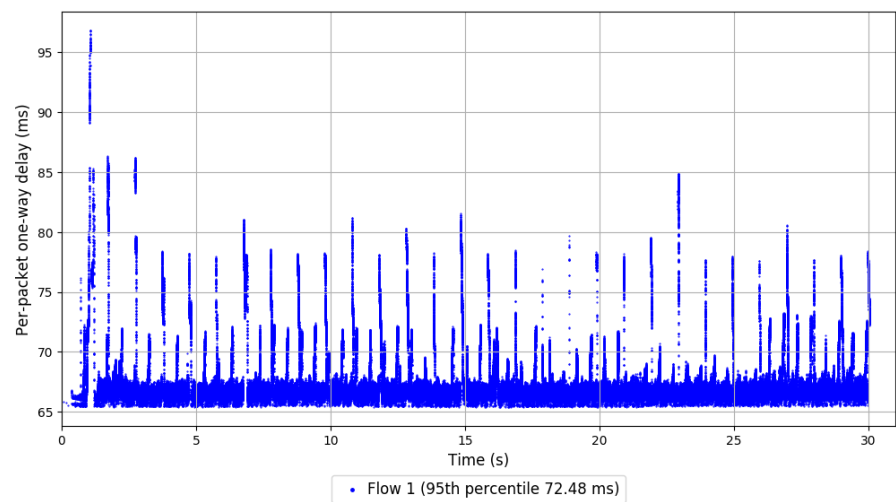
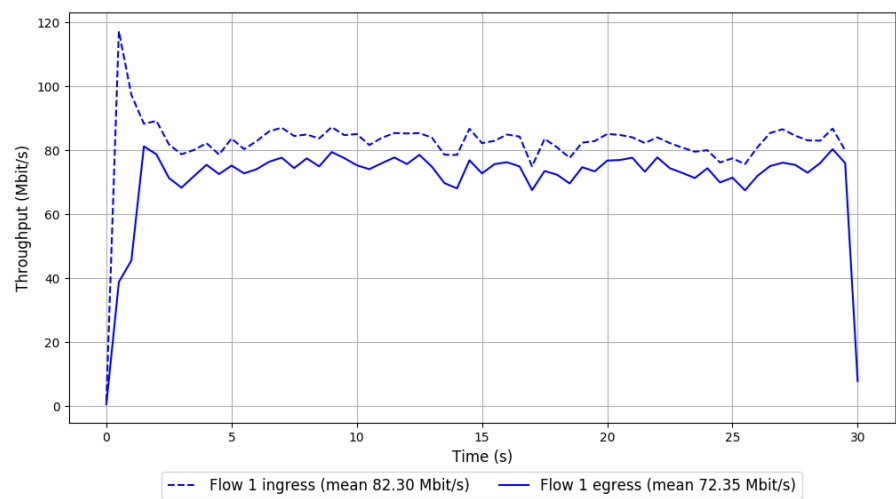
-- Flow 1:

Average throughput: 72.35 Mbit/s

95th percentile per-packet one-way delay: 72.482 ms

Loss rate: 12.06%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-02 13:38:45

End at: 2018-02-02 13:39:15

Local clock offset: -0.503 ms

Remote clock offset: 2.087 ms

Below is generated by plot.py at 2018-02-02 17:45:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.03 Mbit/s

95th percentile per-packet one-way delay: 73.152 ms

Loss rate: 11.05%

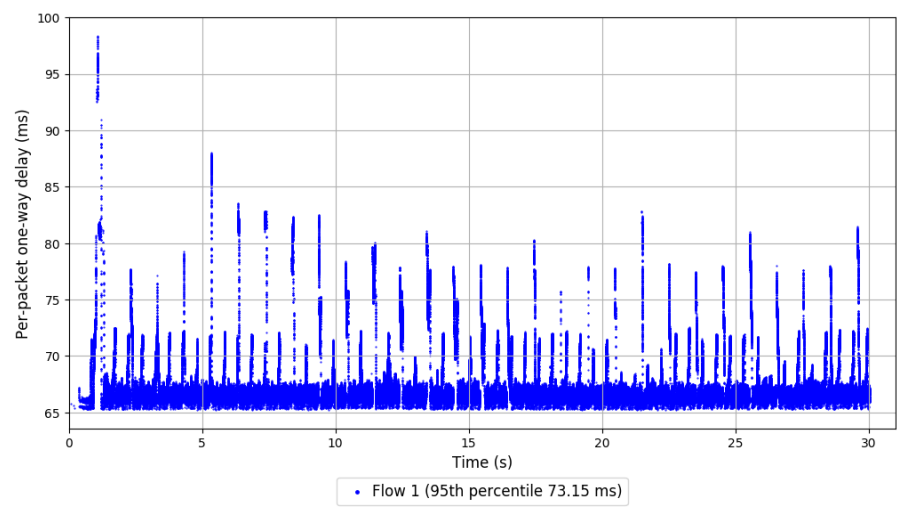
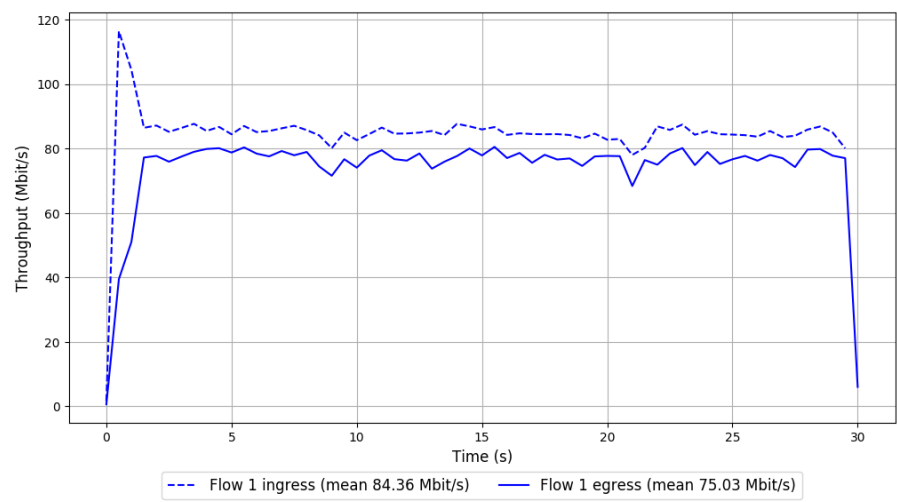
-- Flow 1:

Average throughput: 75.03 Mbit/s

95th percentile per-packet one-way delay: 73.152 ms

Loss rate: 11.05%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-02 14:02:41

End at: 2018-02-02 14:03:11

Local clock offset: -0.723 ms

Remote clock offset: 2.717 ms

Below is generated by plot.py at 2018-02-02 17:45:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.23 Mbit/s

95th percentile per-packet one-way delay: 71.724 ms

Loss rate: 11.83%

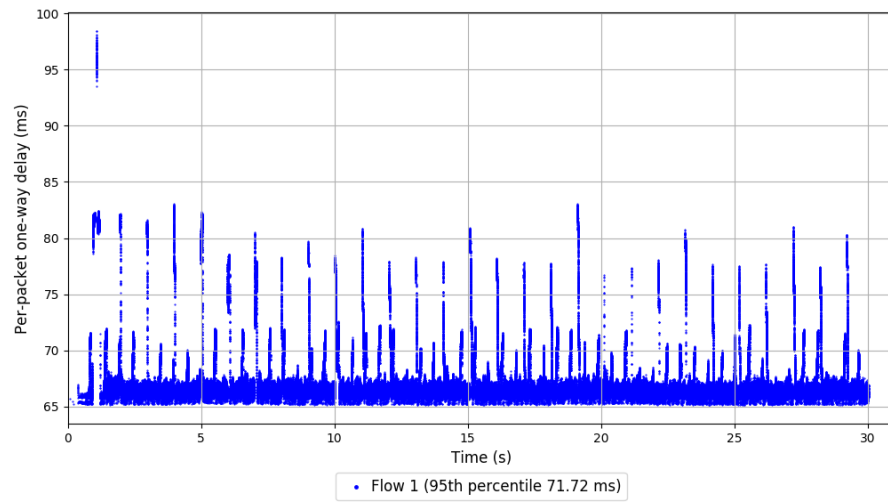
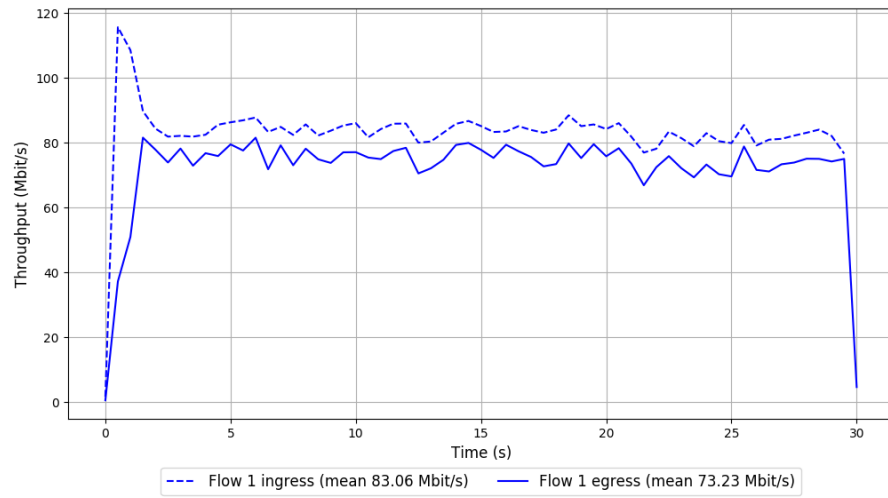
-- Flow 1:

Average throughput: 73.23 Mbit/s

95th percentile per-packet one-way delay: 71.724 ms

Loss rate: 11.83%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-02 14:26:38

End at: 2018-02-02 14:27:08

Local clock offset: -1.187 ms

Remote clock offset: 3.398 ms

Below is generated by plot.py at 2018-02-02 17:46:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.22 Mbit/s

95th percentile per-packet one-way delay: 72.156 ms

Loss rate: 10.12%

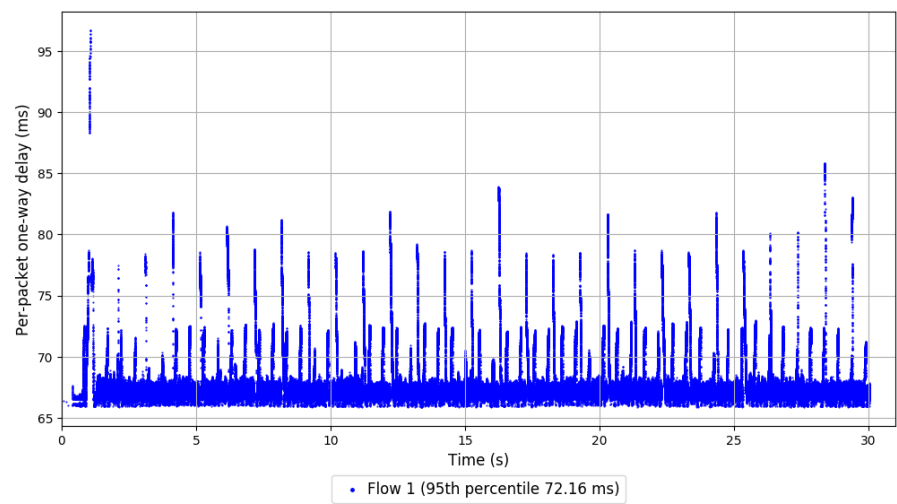
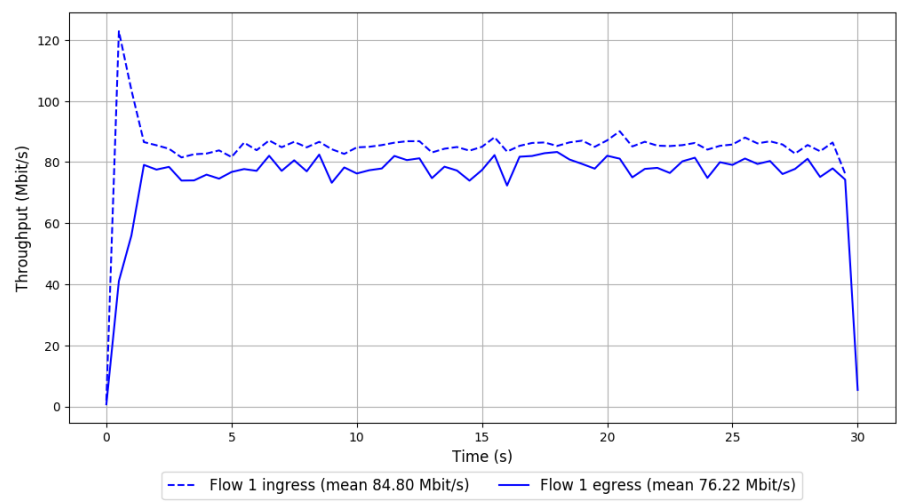
-- Flow 1:

Average throughput: 76.22 Mbit/s

95th percentile per-packet one-way delay: 72.156 ms

Loss rate: 10.12%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-02 14:50:31

End at: 2018-02-02 14:51:01

Local clock offset: -0.66 ms

Remote clock offset: 3.725 ms

Below is generated by plot.py at 2018-02-02 17:46:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.41 Mbit/s

95th percentile per-packet one-way delay: 76.127 ms

Loss rate: 6.23%

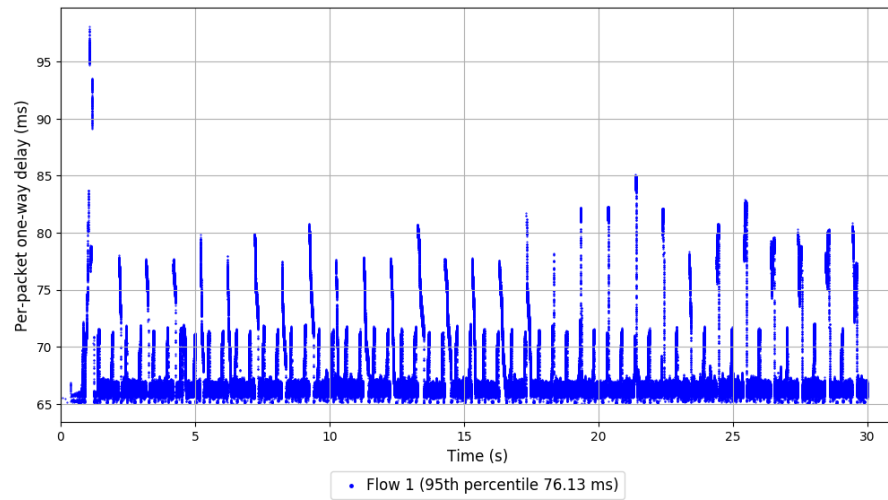
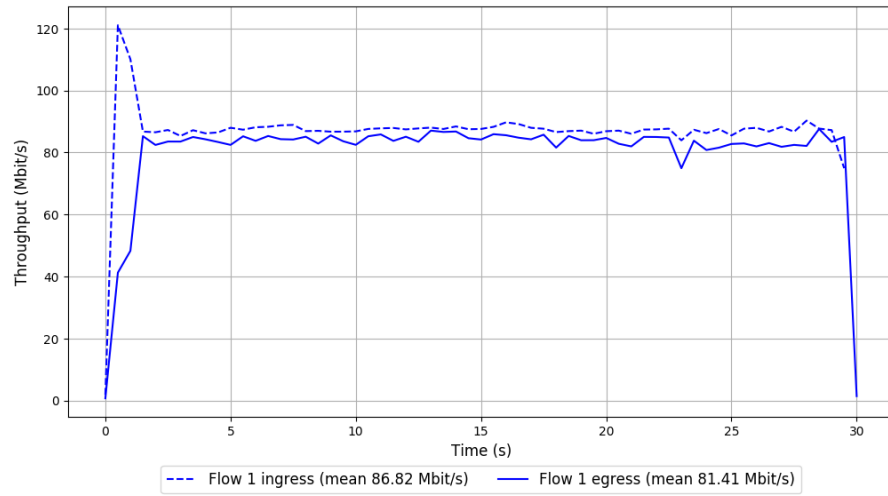
-- Flow 1:

Average throughput: 81.41 Mbit/s

95th percentile per-packet one-way delay: 76.127 ms

Loss rate: 6.23%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-02 15:14:27

End at: 2018-02-02 15:14:57

Local clock offset: -1.097 ms

Remote clock offset: 3.815 ms

Below is generated by plot.py at 2018-02-02 17:46:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.29 Mbit/s

95th percentile per-packet one-way delay: 74.165 ms

Loss rate: 9.61%

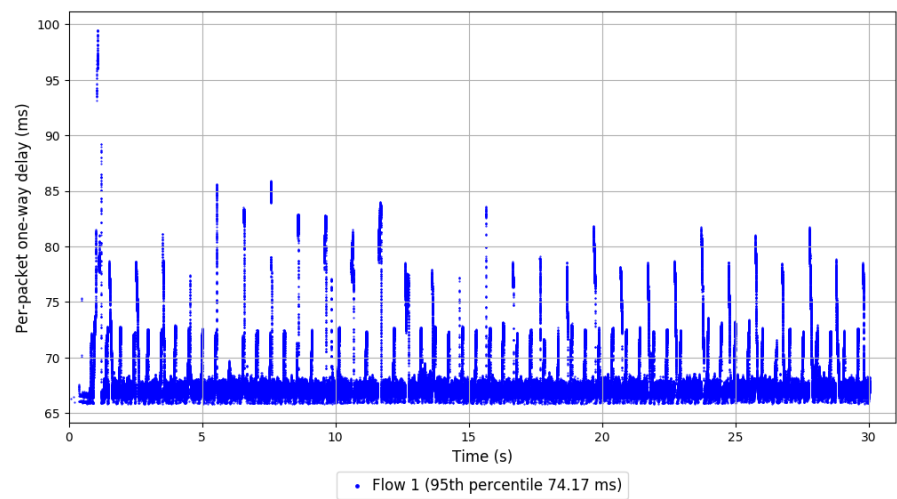
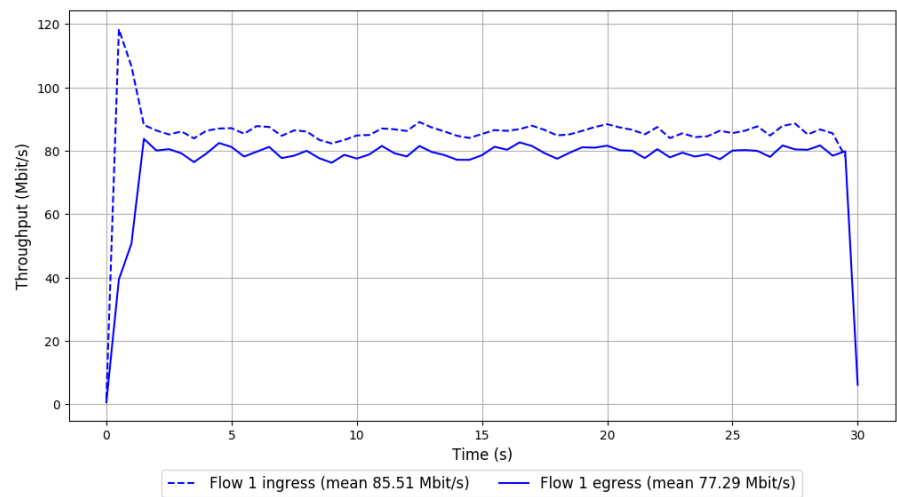
-- Flow 1:

Average throughput: 77.29 Mbit/s

95th percentile per-packet one-way delay: 74.165 ms

Loss rate: 9.61%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-02 15:38:20

End at: 2018-02-02 15:38:50

Local clock offset: -0.745 ms

Remote clock offset: 1.936 ms

Below is generated by plot.py at 2018-02-02 17:46:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.33 Mbit/s

95th percentile per-packet one-way delay: 75.934 ms

Loss rate: 5.16%

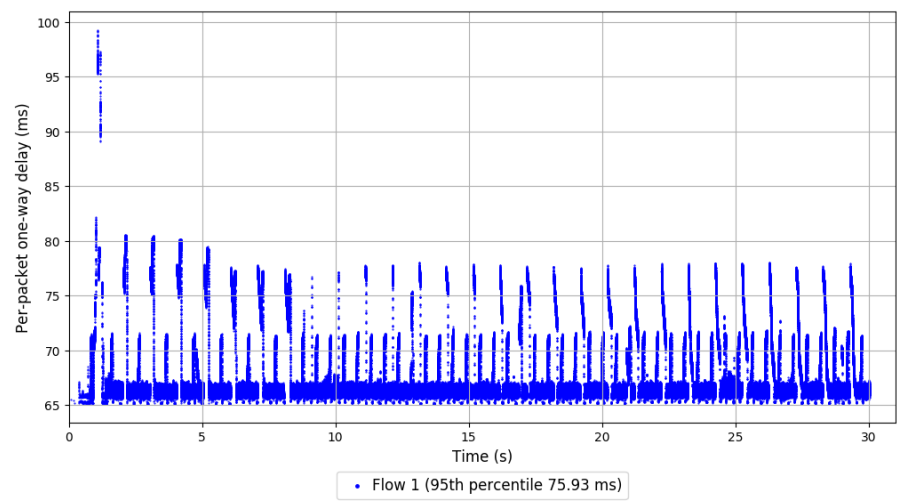
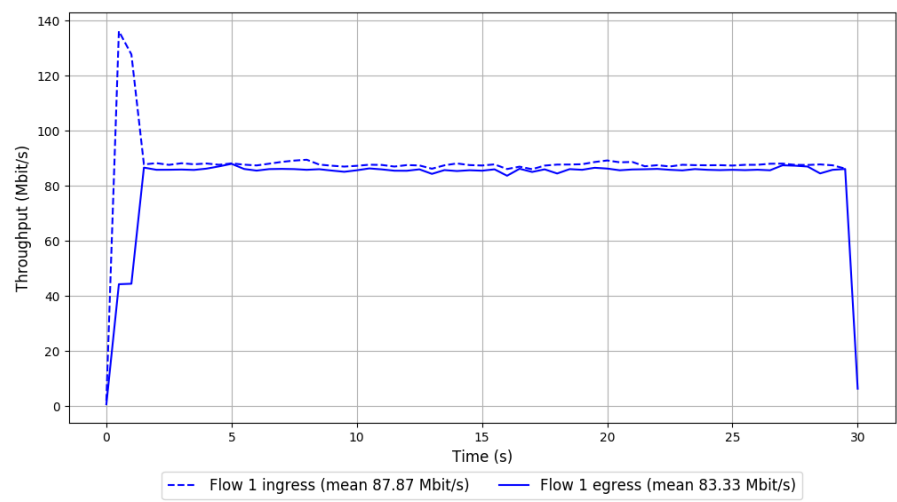
-- Flow 1:

Average throughput: 83.33 Mbit/s

95th percentile per-packet one-way delay: 75.934 ms

Loss rate: 5.16%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-02 16:11:27

End at: 2018-02-02 16:11:57

Local clock offset: -0.71 ms

Remote clock offset: 0.116 ms

Below is generated by plot.py at 2018-02-02 17:46:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 75.267 ms

Loss rate: 66.57%

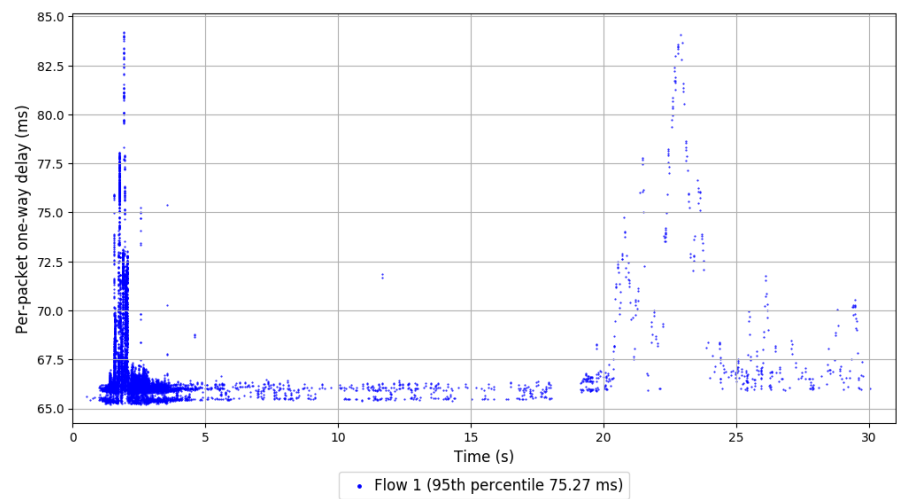
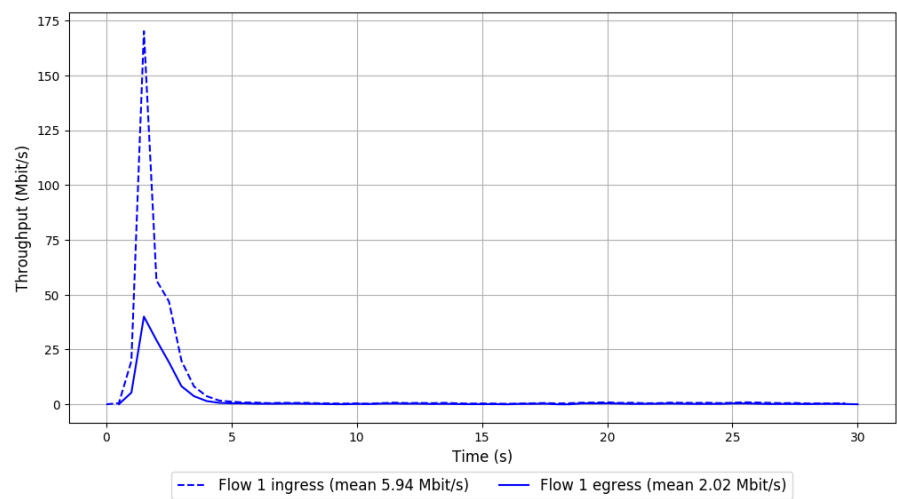
-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 75.267 ms

Loss rate: 66.57%

Run 8: Report of FillP — Data Link

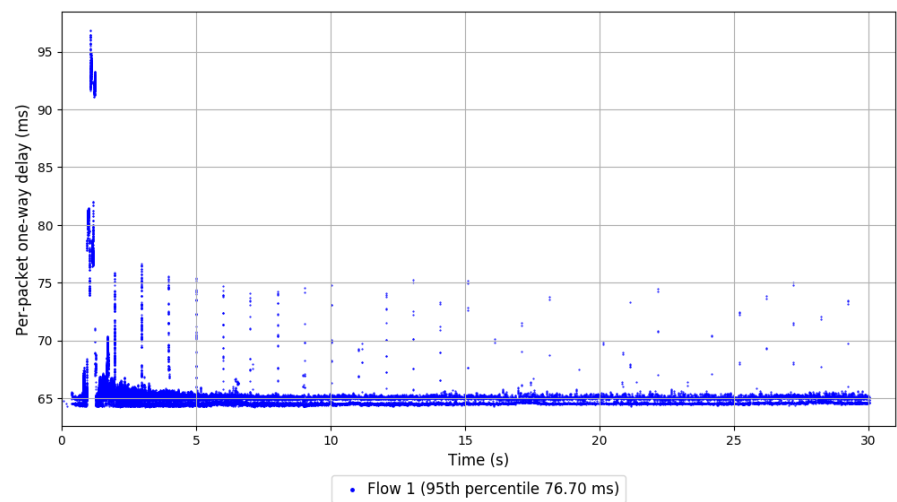
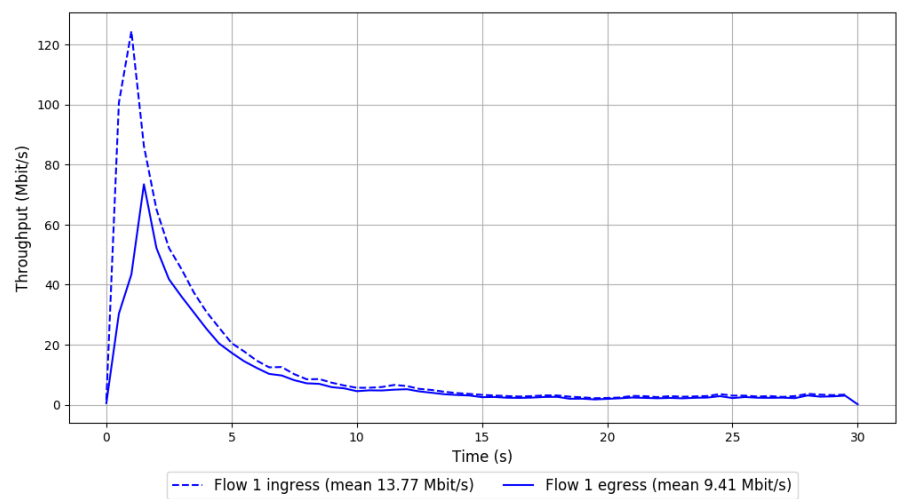


Run 9: Statistics of FillP

Start at: 2018-02-02 16:44:45
End at: 2018-02-02 16:45:15
Local clock offset: -0.237 ms
Remote clock offset: -0.287 ms

Below is generated by plot.py at 2018-02-02 17:46:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.41 Mbit/s
95th percentile per-packet one-way delay: 76.705 ms
Loss rate: 31.66%
-- Flow 1:
Average throughput: 9.41 Mbit/s
95th percentile per-packet one-way delay: 76.705 ms
Loss rate: 31.66%

Run 9: Report of FillP — Data Link

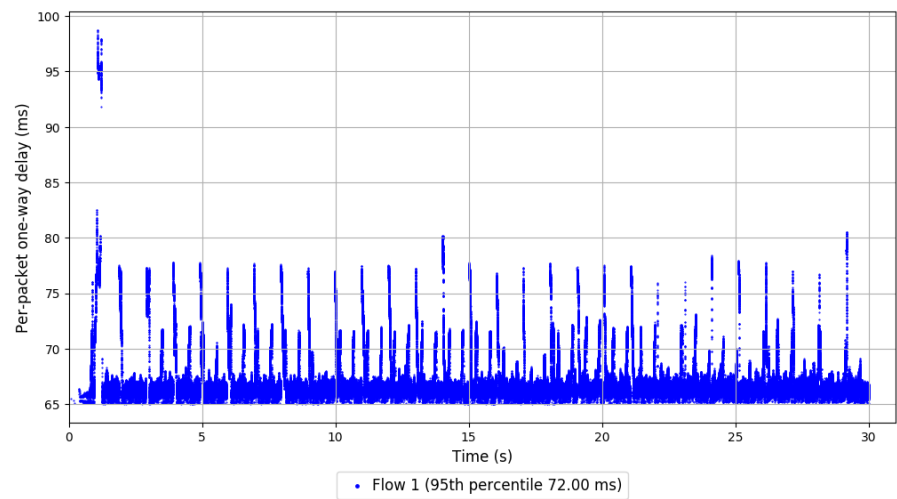
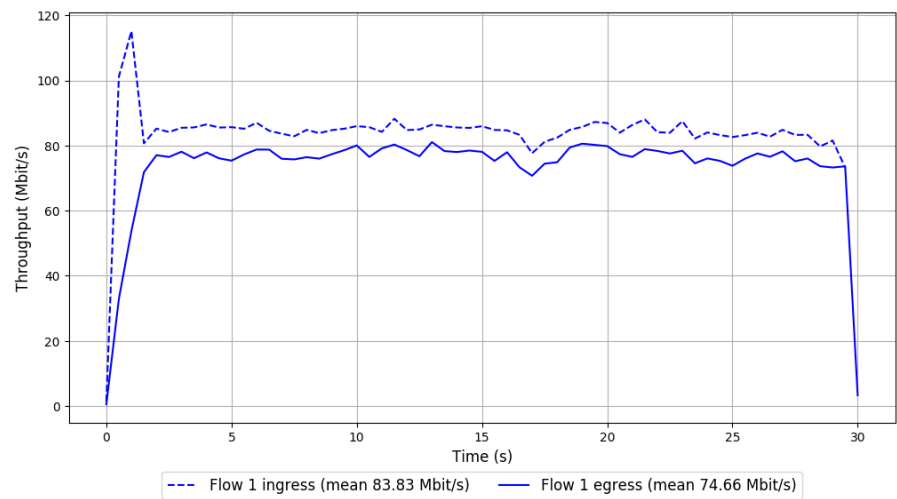


Run 10: Statistics of FillP

Start at: 2018-02-02 17:08:52
End at: 2018-02-02 17:09:22
Local clock offset: -0.466 ms
Remote clock offset: -0.104 ms

Below is generated by plot.py at 2018-02-02 17:46:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 74.66 Mbit/s
95th percentile per-packet one-way delay: 71.999 ms
Loss rate: 10.93%
-- Flow 1:
Average throughput: 74.66 Mbit/s
95th percentile per-packet one-way delay: 71.999 ms
Loss rate: 10.93%

Run 10: Report of FillP — Data Link

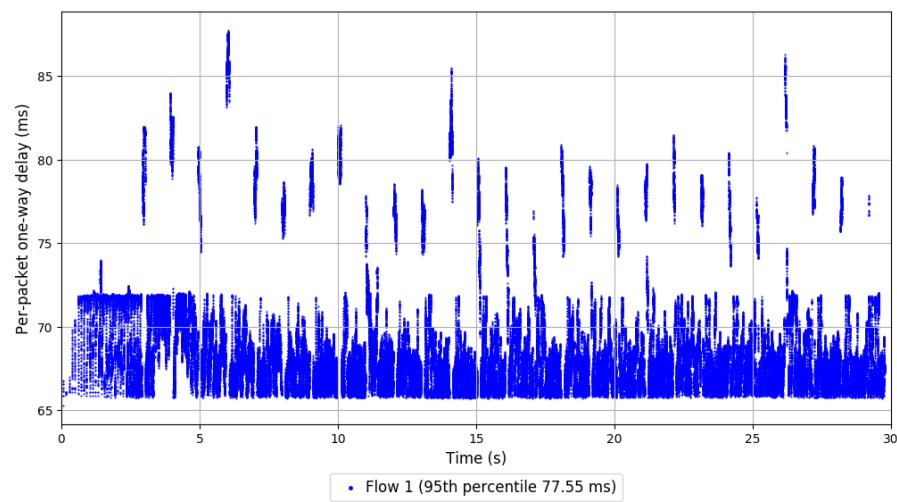
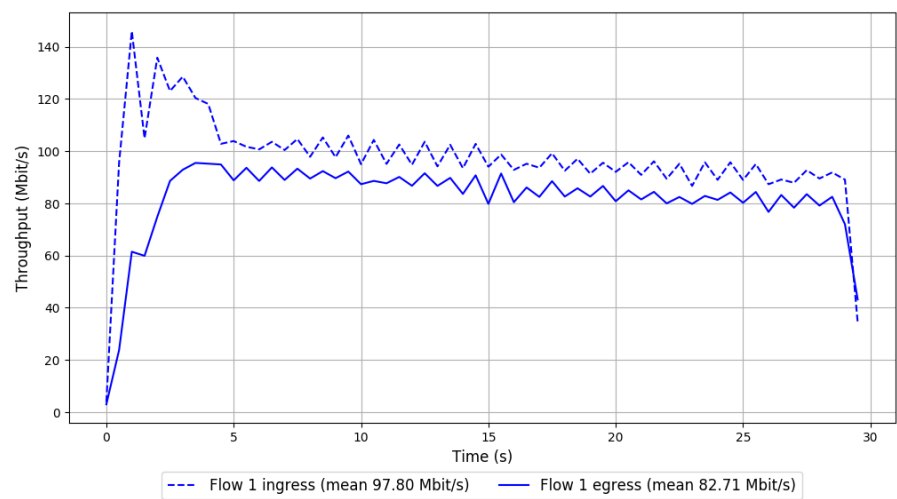


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-02 12:58:36
End at: 2018-02-02 12:59:06
Local clock offset: -0.337 ms
Remote clock offset: 0.827 ms

# Below is generated by plot.py at 2018-02-02 17:46:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.71 Mbit/s
95th percentile per-packet one-way delay: 77.554 ms
Loss rate: 15.43%
-- Flow 1:
Average throughput: 82.71 Mbit/s
95th percentile per-packet one-way delay: 77.554 ms
Loss rate: 15.43%
```

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-02-02 13:22:47

End at: 2018-02-02 13:23:17

Local clock offset: -0.513 ms

Remote clock offset: 1.517 ms

Below is generated by plot.py at 2018-02-02 17:47:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.90 Mbit/s

95th percentile per-packet one-way delay: 81.478 ms

Loss rate: 19.86%

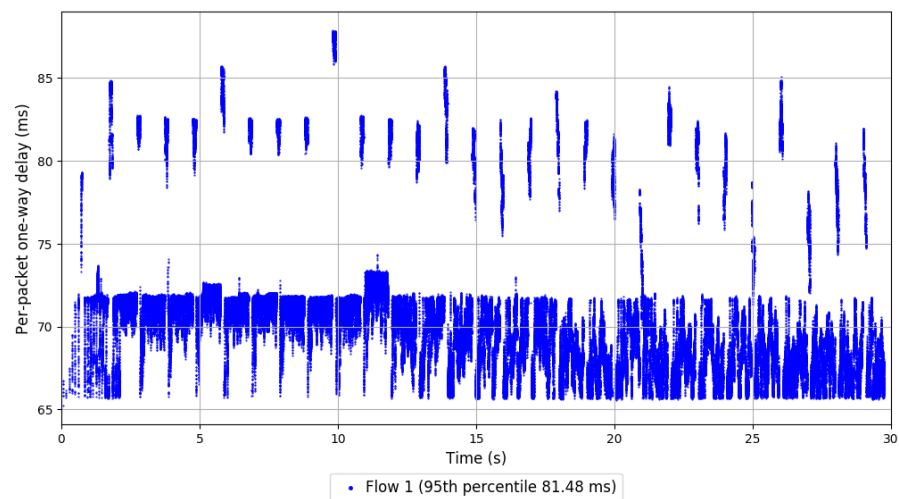
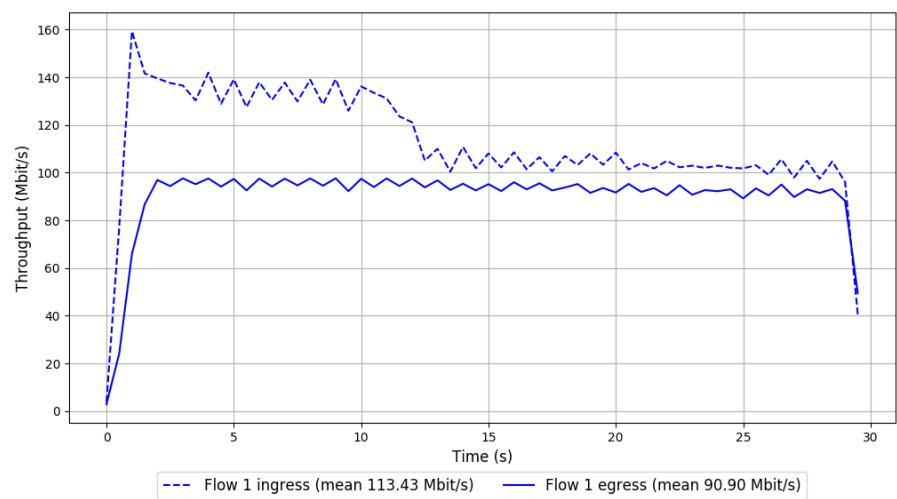
-- Flow 1:

Average throughput: 90.90 Mbit/s

95th percentile per-packet one-way delay: 81.478 ms

Loss rate: 19.86%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-02 13:46:45

End at: 2018-02-02 13:47:15

Local clock offset: -0.507 ms

Remote clock offset: 2.302 ms

Below is generated by plot.py at 2018-02-02 17:47:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.01 Mbit/s

95th percentile per-packet one-way delay: 76.729 ms

Loss rate: 11.64%

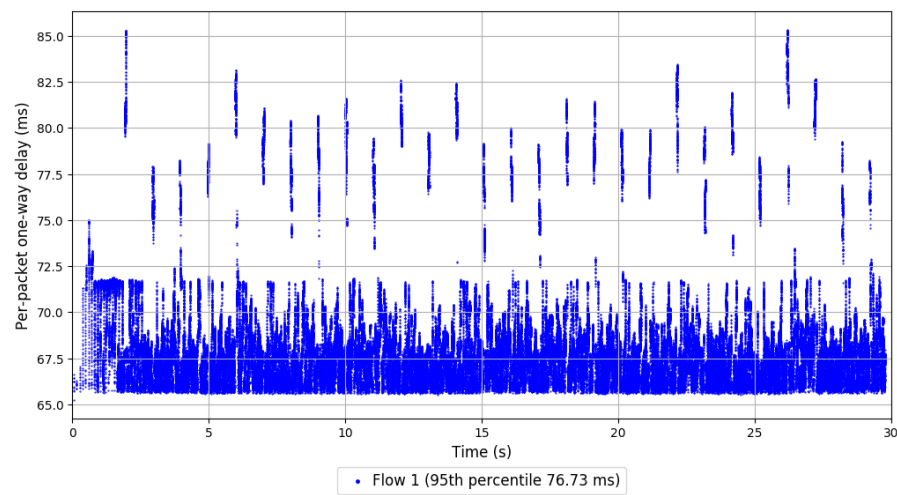
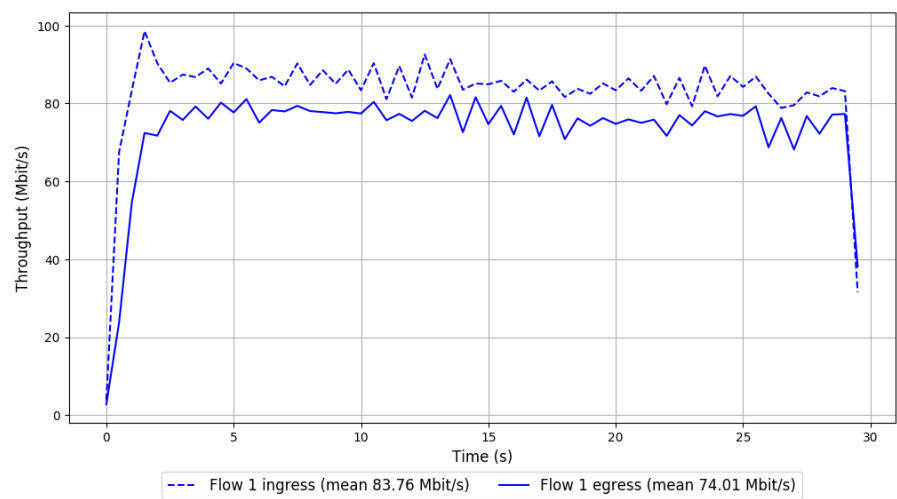
-- Flow 1:

Average throughput: 74.01 Mbit/s

95th percentile per-packet one-way delay: 76.729 ms

Loss rate: 11.64%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-02 14:10:36

End at: 2018-02-02 14:11:06

Local clock offset: -0.938 ms

Remote clock offset: 2.889 ms

Below is generated by plot.py at 2018-02-02 17:47:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.71 Mbit/s

95th percentile per-packet one-way delay: 78.770 ms

Loss rate: 11.41%

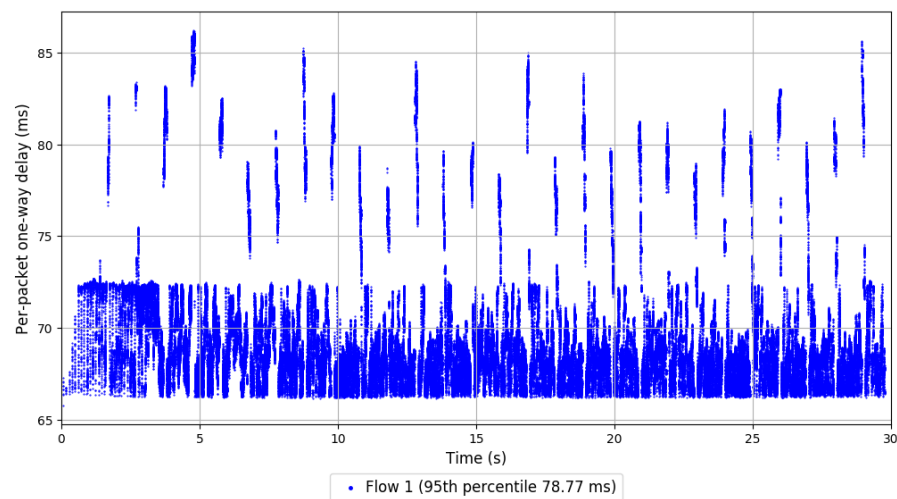
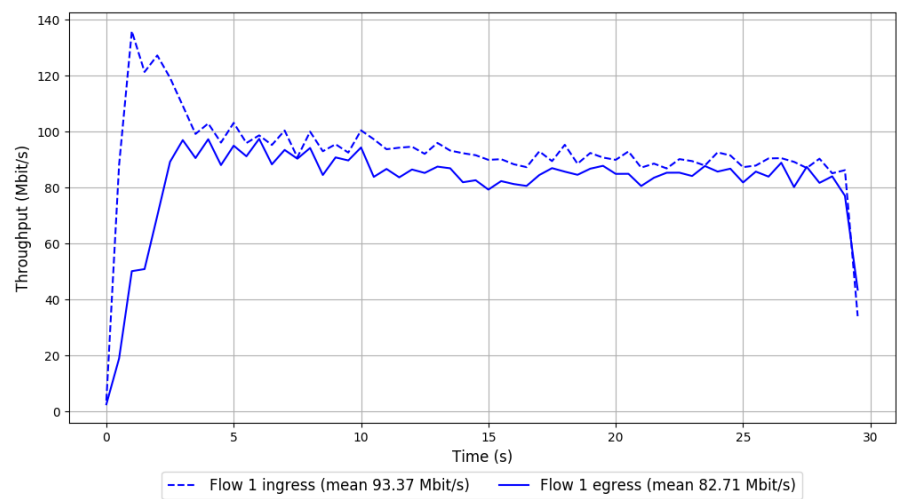
-- Flow 1:

Average throughput: 82.71 Mbit/s

95th percentile per-packet one-way delay: 78.770 ms

Loss rate: 11.41%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-02 14:34:34

End at: 2018-02-02 14:35:04

Local clock offset: -0.568 ms

Remote clock offset: 3.607 ms

Below is generated by plot.py at 2018-02-02 17:47:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.41 Mbit/s

95th percentile per-packet one-way delay: 81.878 ms

Loss rate: 22.87%

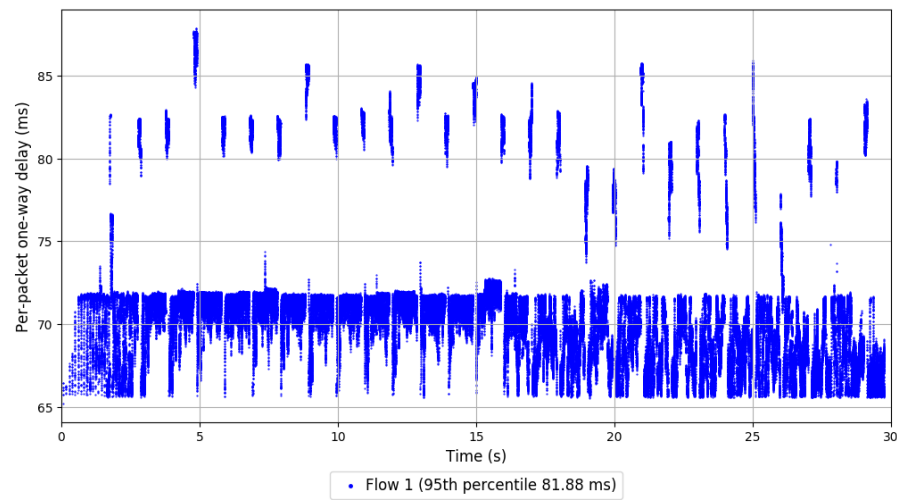
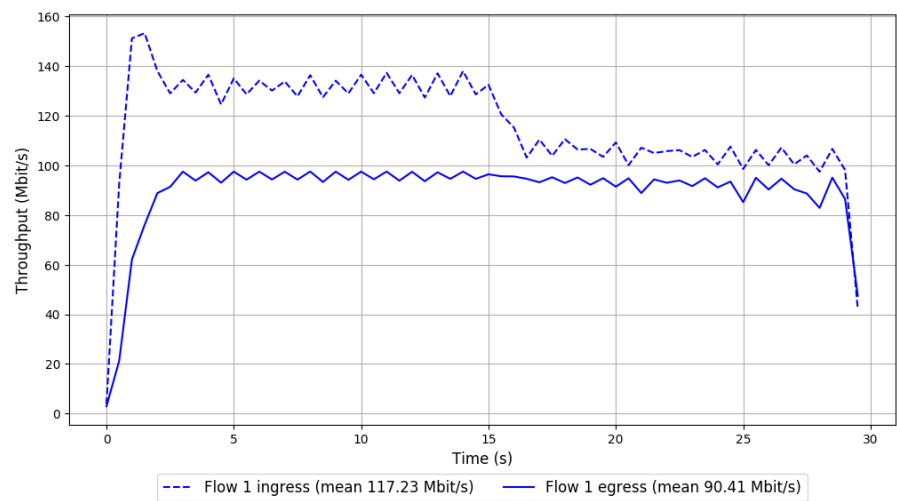
-- Flow 1:

Average throughput: 90.41 Mbit/s

95th percentile per-packet one-way delay: 81.878 ms

Loss rate: 22.87%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-02 14:58:35

End at: 2018-02-02 14:59:05

Local clock offset: -0.997 ms

Remote clock offset: 3.776 ms

Below is generated by plot.py at 2018-02-02 17:47:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.54 Mbit/s

95th percentile per-packet one-way delay: 82.576 ms

Loss rate: 14.35%

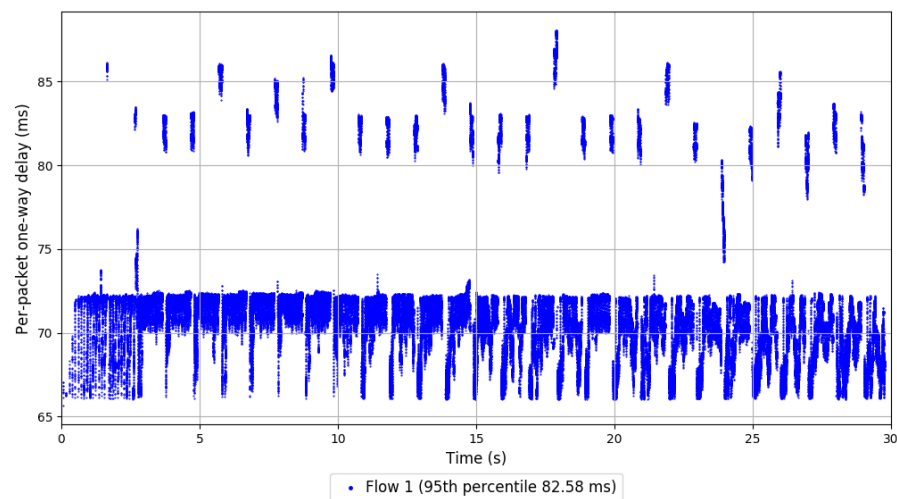
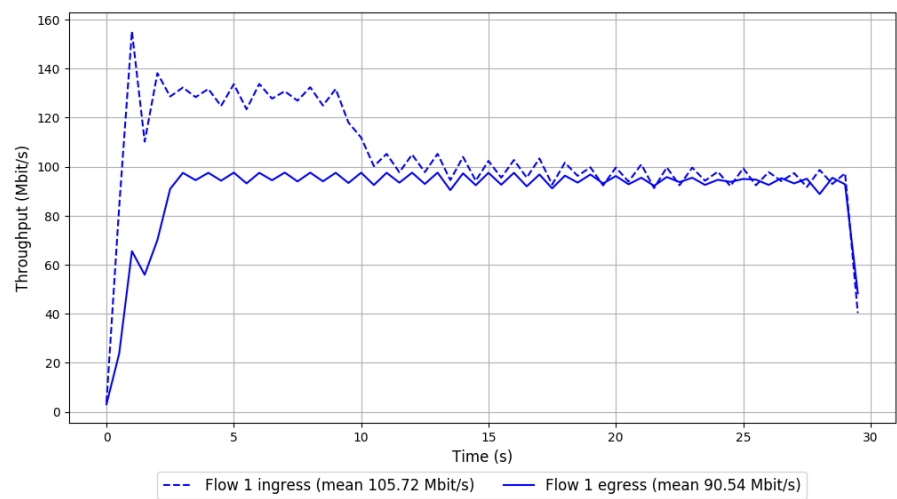
-- Flow 1:

Average throughput: 90.54 Mbit/s

95th percentile per-packet one-way delay: 82.576 ms

Loss rate: 14.35%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-02 15:22:24

End at: 2018-02-02 15:22:54

Local clock offset: -3.514 ms

Remote clock offset: 3.378 ms

Below is generated by plot.py at 2018-02-02 17:48:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.91 Mbit/s

95th percentile per-packet one-way delay: 84.275 ms

Loss rate: 19.03%

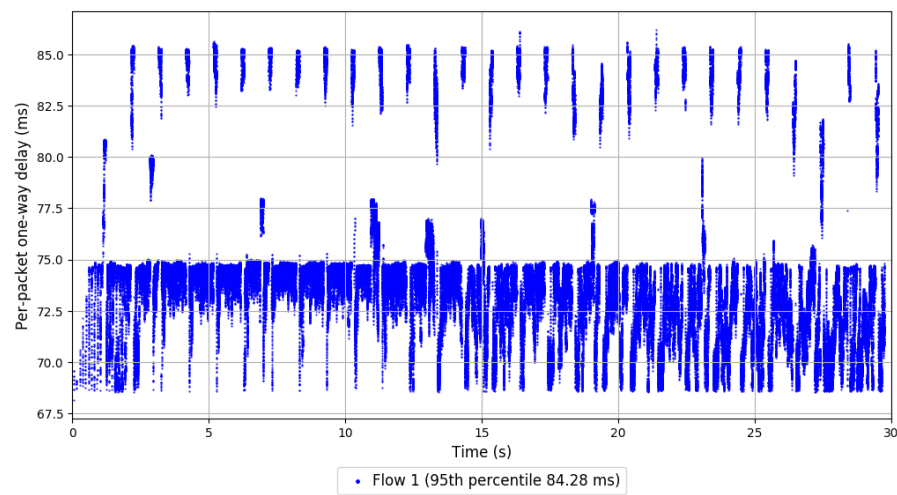
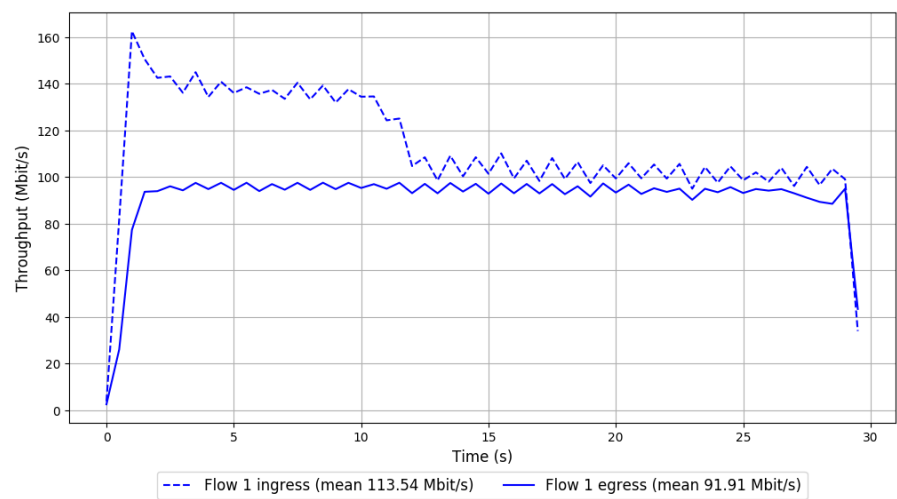
-- Flow 1:

Average throughput: 91.91 Mbit/s

95th percentile per-packet one-way delay: 84.275 ms

Loss rate: 19.03%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-02 15:46:26

End at: 2018-02-02 15:46:56

Local clock offset: -0.859 ms

Remote clock offset: 1.27 ms

Below is generated by plot.py at 2018-02-02 17:48:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.53 Mbit/s

95th percentile per-packet one-way delay: 77.842 ms

Loss rate: 2.15%

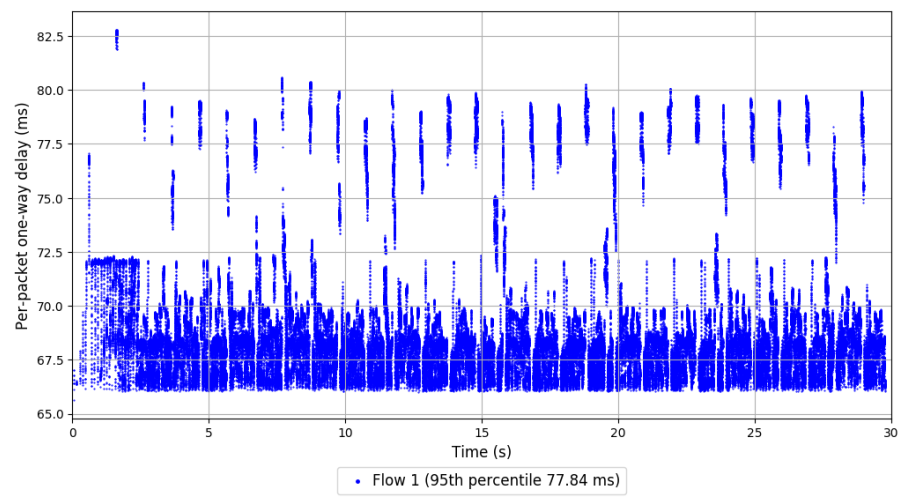
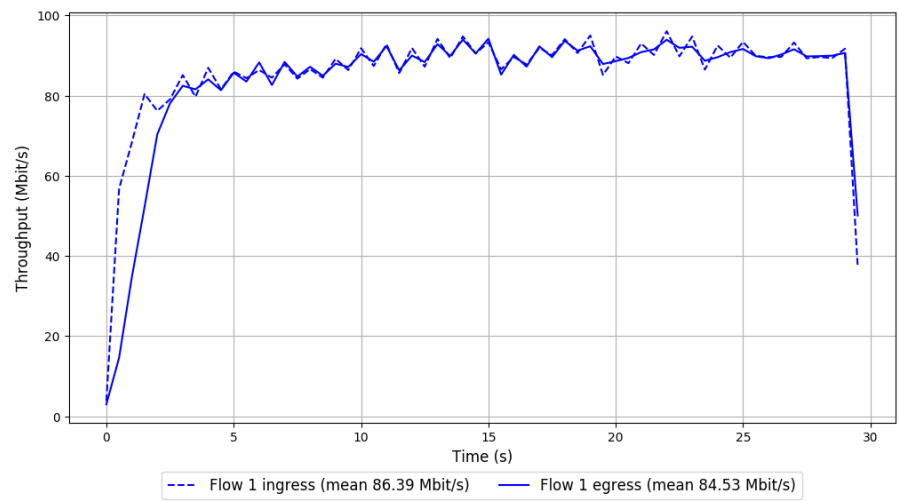
-- Flow 1:

Average throughput: 84.53 Mbit/s

95th percentile per-packet one-way delay: 77.842 ms

Loss rate: 2.15%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-02 16:28:22

End at: 2018-02-02 16:28:52

Local clock offset: -0.343 ms

Remote clock offset: -0.352 ms

Below is generated by plot.py at 2018-02-02 17:48:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.98 Mbit/s

95th percentile per-packet one-way delay: 70.198 ms

Loss rate: 38.03%

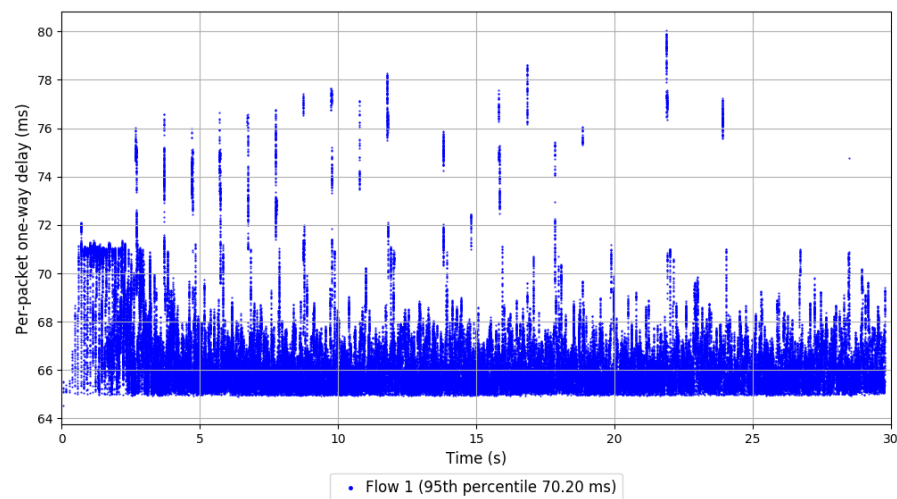
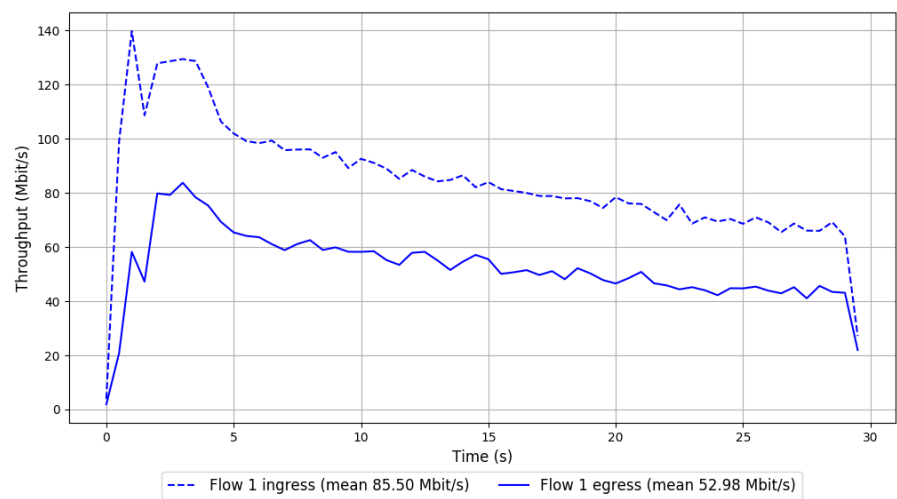
-- Flow 1:

Average throughput: 52.98 Mbit/s

95th percentile per-packet one-way delay: 70.198 ms

Loss rate: 38.03%

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

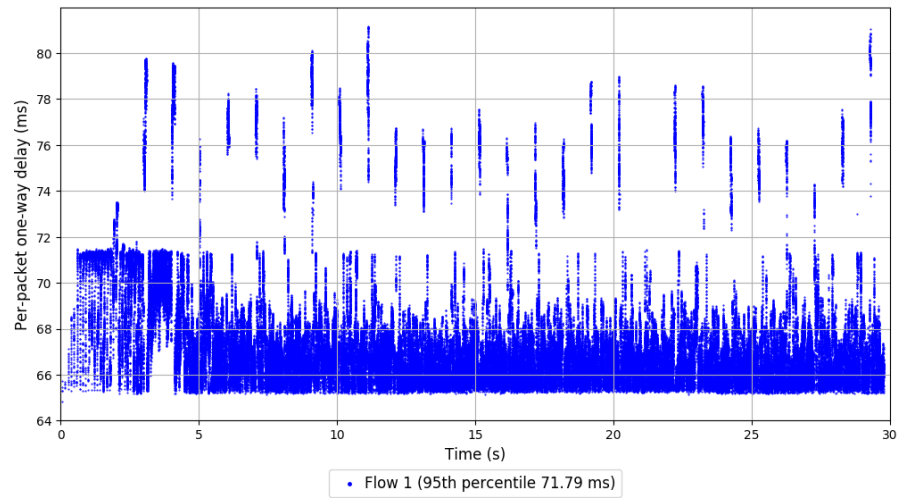
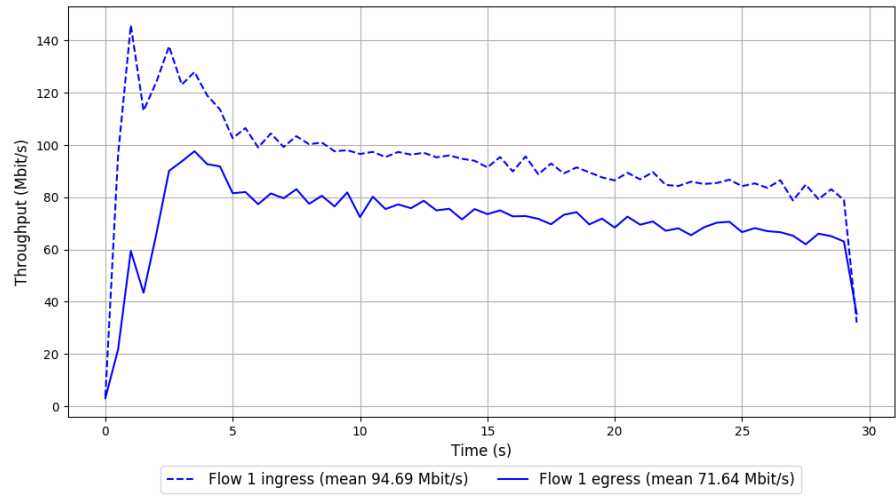


Run 10: Statistics of Indigo-1-32

Start at: 2018-02-02 16:52:56
End at: 2018-02-02 16:53:26
Local clock offset: -0.475 ms
Remote clock offset: -0.246 ms

Below is generated by plot.py at 2018-02-02 17:48:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 71.64 Mbit/s
95th percentile per-packet one-way delay: 71.786 ms
Loss rate: 24.33%
-- Flow 1:
Average throughput: 71.64 Mbit/s
95th percentile per-packet one-way delay: 71.786 ms
Loss rate: 24.33%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-02-02 12:57:19

End at: 2018-02-02 12:57:49

Local clock offset: -0.617 ms

Remote clock offset: 0.773 ms

Below is generated by plot.py at 2018-02-02 17:48:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 66.366 ms

Loss rate: 8.86%

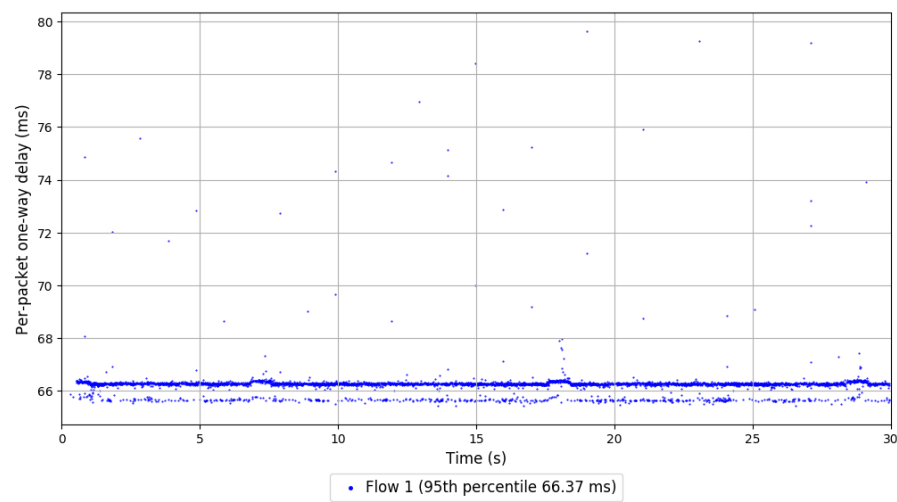
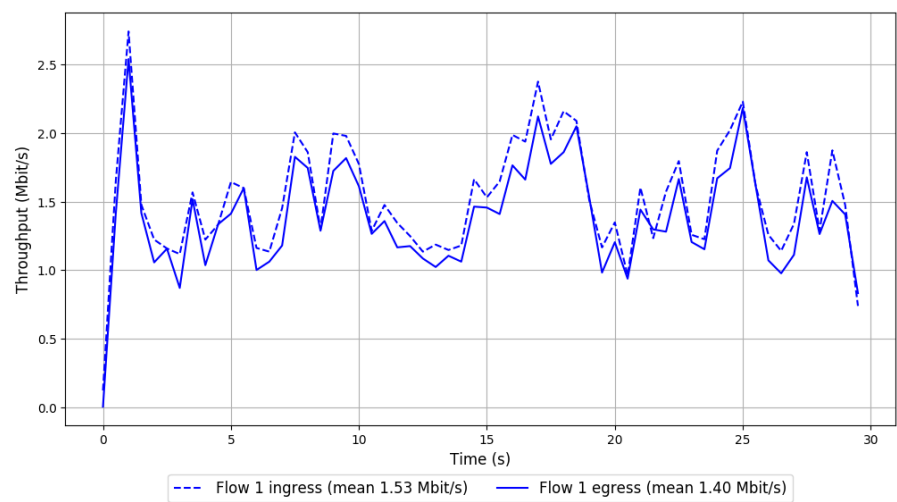
-- Flow 1:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 66.366 ms

Loss rate: 8.86%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-02 13:21:29

End at: 2018-02-02 13:21:59

Local clock offset: -0.295 ms

Remote clock offset: 1.481 ms

Below is generated by plot.py at 2018-02-02 17:48:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 65.817 ms

Loss rate: 7.87%

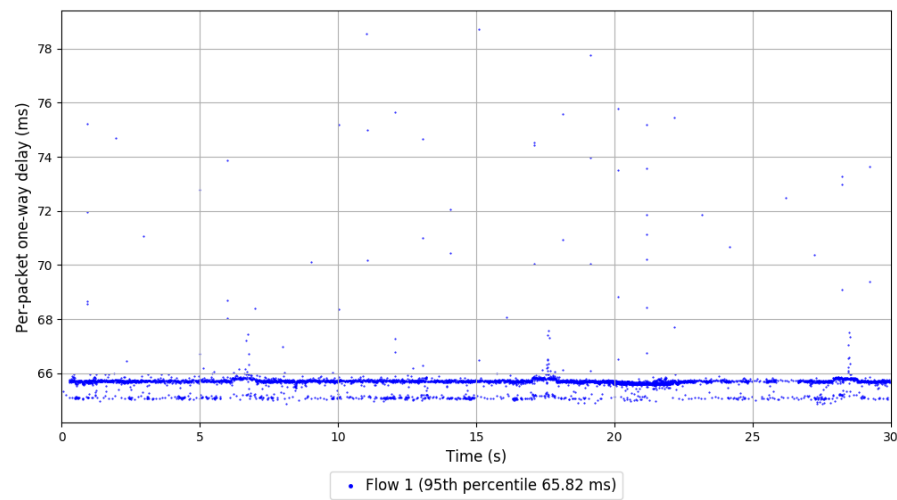
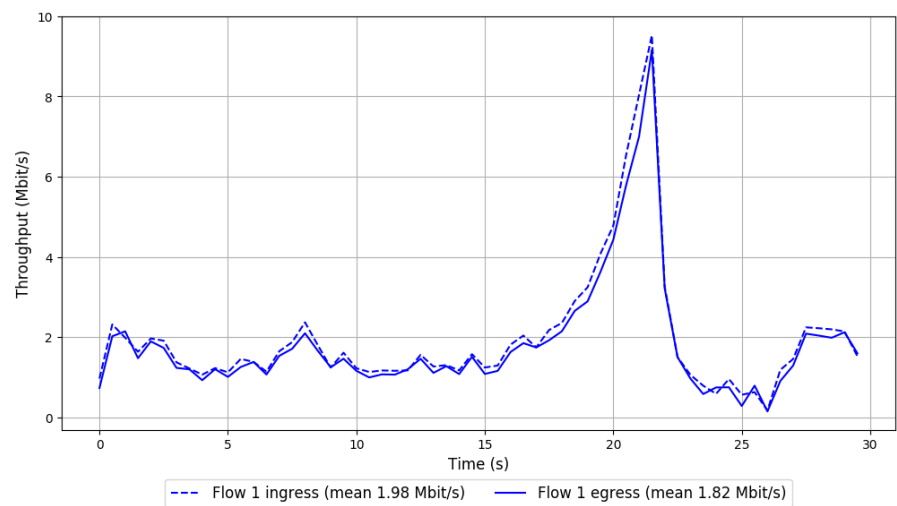
-- Flow 1:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 65.817 ms

Loss rate: 7.87%

Run 2: Report of Vivace-latency — Data Link

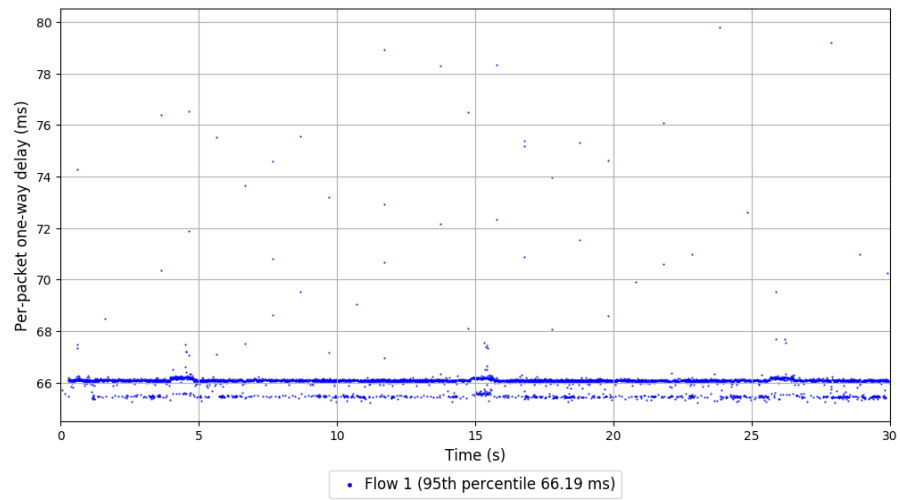
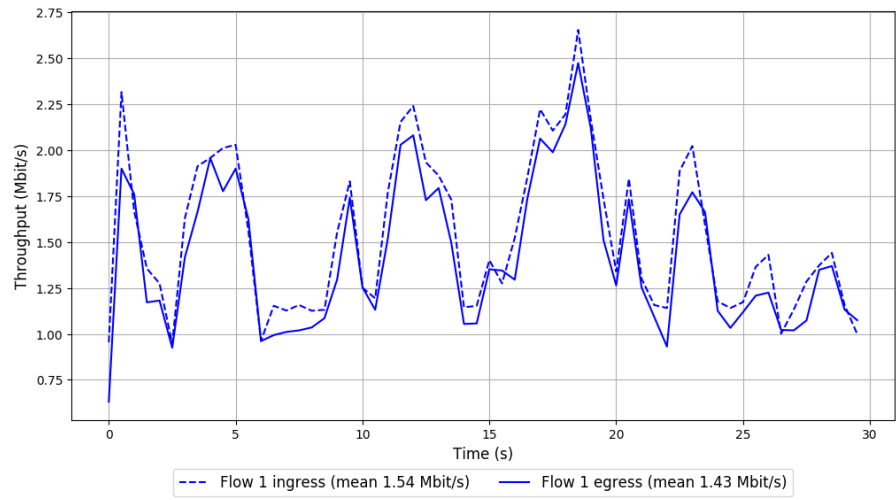


Run 3: Statistics of Vivace-latency

Start at: 2018-02-02 13:45:26
End at: 2018-02-02 13:45:56
Local clock offset: -0.434 ms
Remote clock offset: 2.333 ms

Below is generated by plot.py at 2018-02-02 17:48:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.43 Mbit/s
95th percentile per-packet one-way delay: 66.186 ms
Loss rate: 7.44%
-- Flow 1:
Average throughput: 1.43 Mbit/s
95th percentile per-packet one-way delay: 66.186 ms
Loss rate: 7.44%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-02 14:09:18

End at: 2018-02-02 14:09:48

Local clock offset: -0.531 ms

Remote clock offset: 2.773 ms

Below is generated by plot.py at 2018-02-02 17:48:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.06 Mbit/s

95th percentile per-packet one-way delay: 65.988 ms

Loss rate: 4.96%

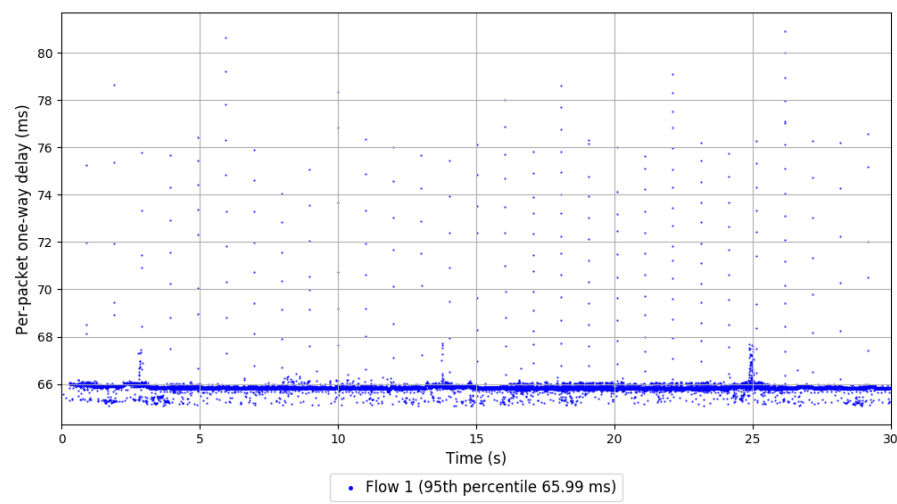
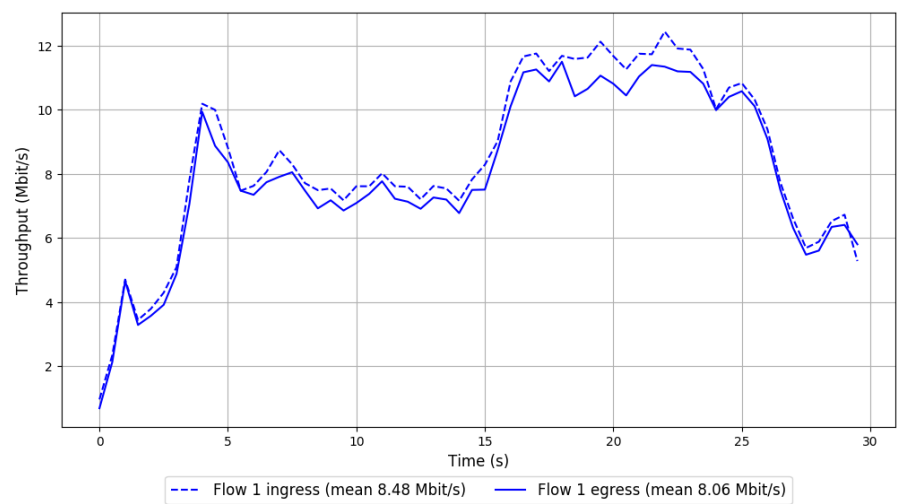
-- Flow 1:

Average throughput: 8.06 Mbit/s

95th percentile per-packet one-way delay: 65.988 ms

Loss rate: 4.96%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-02 14:33:16

End at: 2018-02-02 14:33:46

Local clock offset: -0.36 ms

Remote clock offset: 3.56 ms

Below is generated by plot.py at 2018-02-02 17:48:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.55 Mbit/s

95th percentile per-packet one-way delay: 65.980 ms

Loss rate: 7.98%

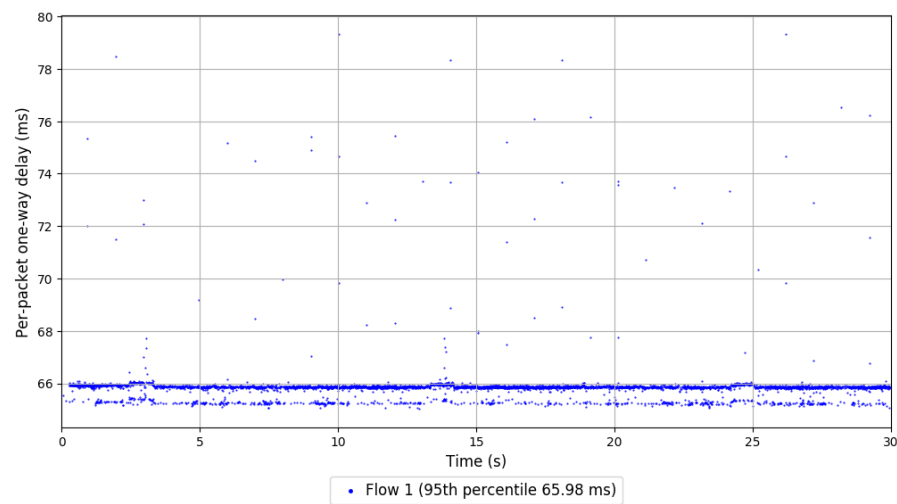
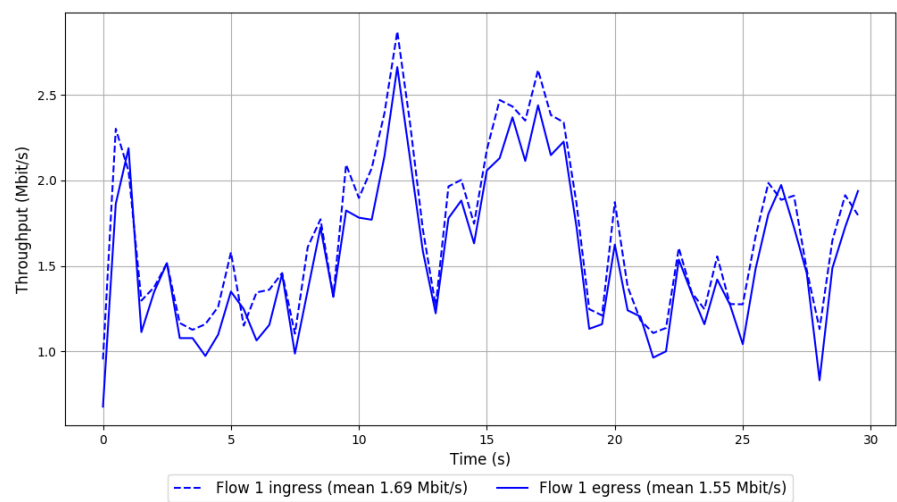
-- Flow 1:

Average throughput: 1.55 Mbit/s

95th percentile per-packet one-way delay: 65.980 ms

Loss rate: 7.98%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-02 14:57:16

End at: 2018-02-02 14:57:46

Local clock offset: -0.723 ms

Remote clock offset: 3.711 ms

Below is generated by plot.py at 2018-02-02 17:48:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.03 Mbit/s

95th percentile per-packet one-way delay: 66.276 ms

Loss rate: 0.99%

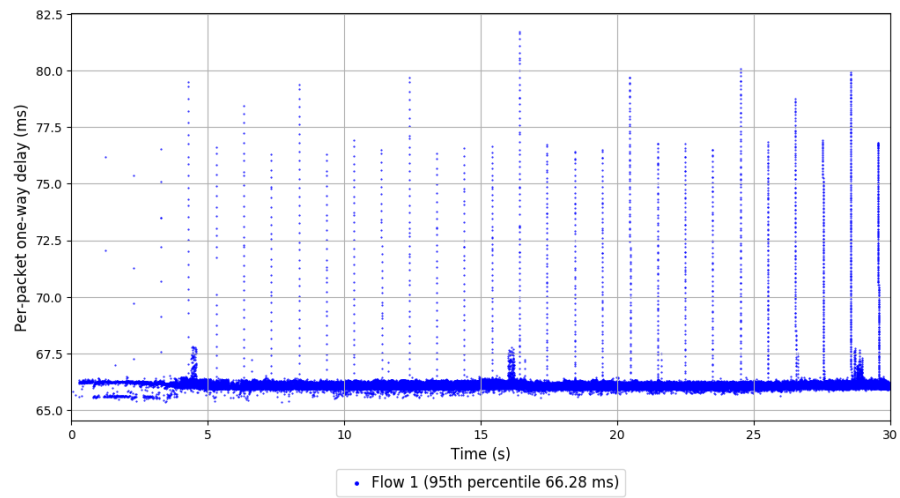
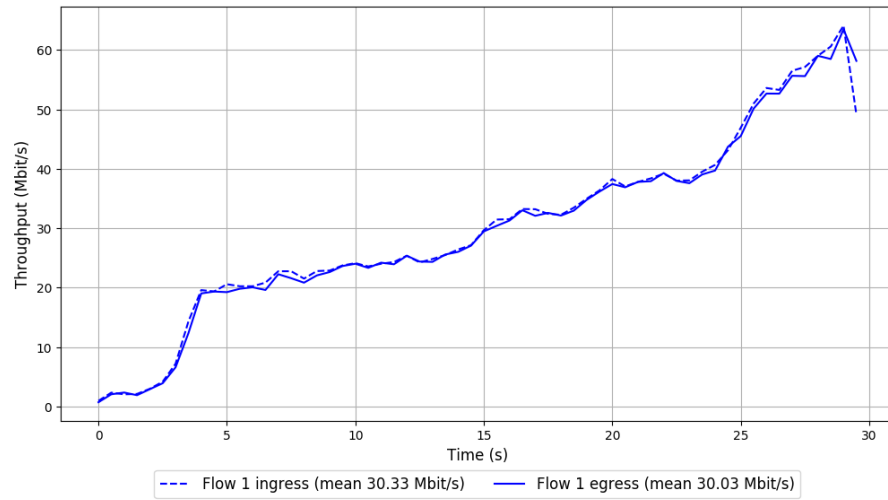
-- Flow 1:

Average throughput: 30.03 Mbit/s

95th percentile per-packet one-way delay: 66.276 ms

Loss rate: 0.99%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-02 15:21:06

End at: 2018-02-02 15:21:36

Local clock offset: -0.784 ms

Remote clock offset: 3.494 ms

Below is generated by plot.py at 2018-02-02 17:48:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.71 Mbit/s

95th percentile per-packet one-way delay: 66.396 ms

Loss rate: 4.93%

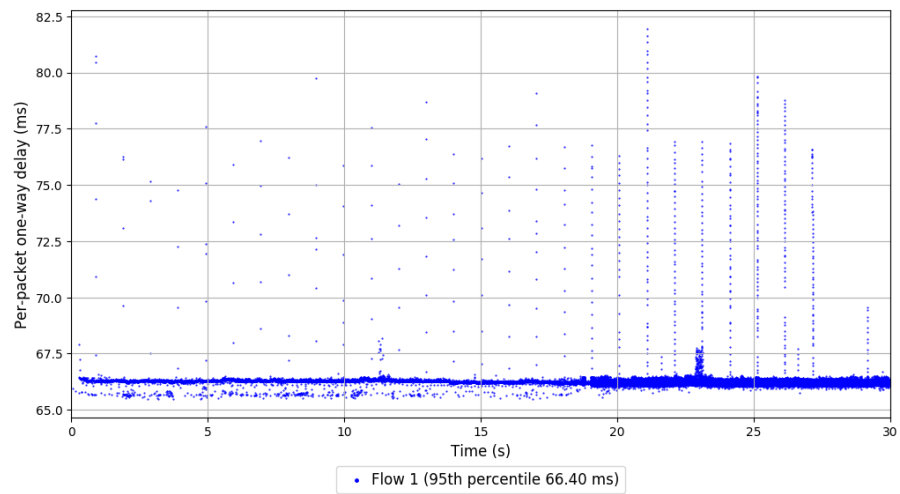
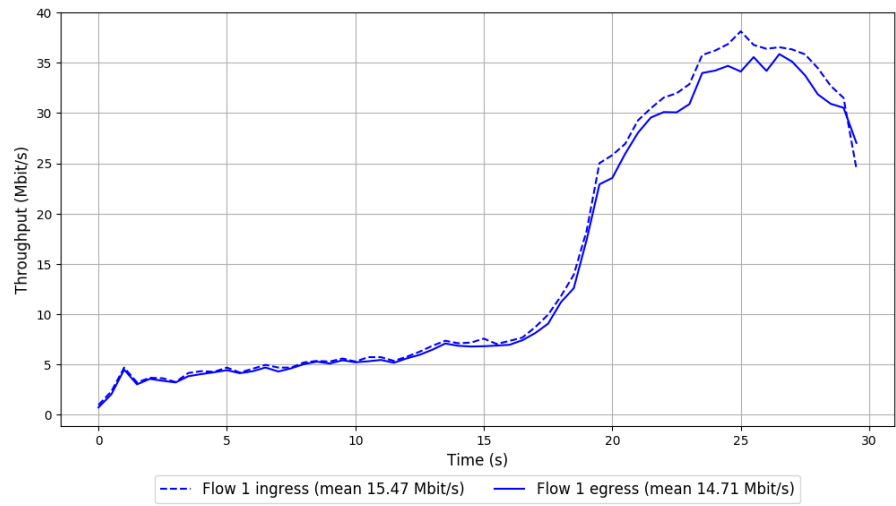
-- Flow 1:

Average throughput: 14.71 Mbit/s

95th percentile per-packet one-way delay: 66.396 ms

Loss rate: 4.93%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-02 15:45:04

End at: 2018-02-02 15:45:35

Local clock offset: -1.185 ms

Remote clock offset: 1.386 ms

Below is generated by plot.py at 2018-02-02 17:48:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.13 Mbit/s

95th percentile per-packet one-way delay: 71.578 ms

Loss rate: 0.26%

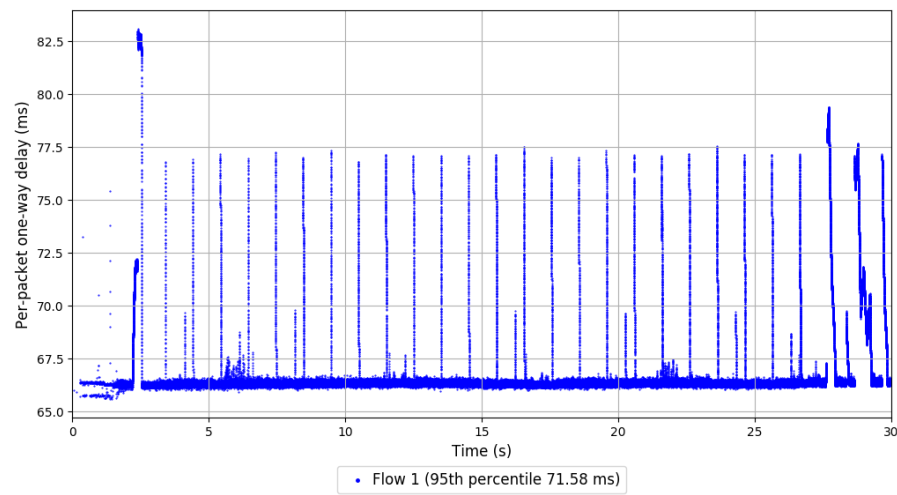
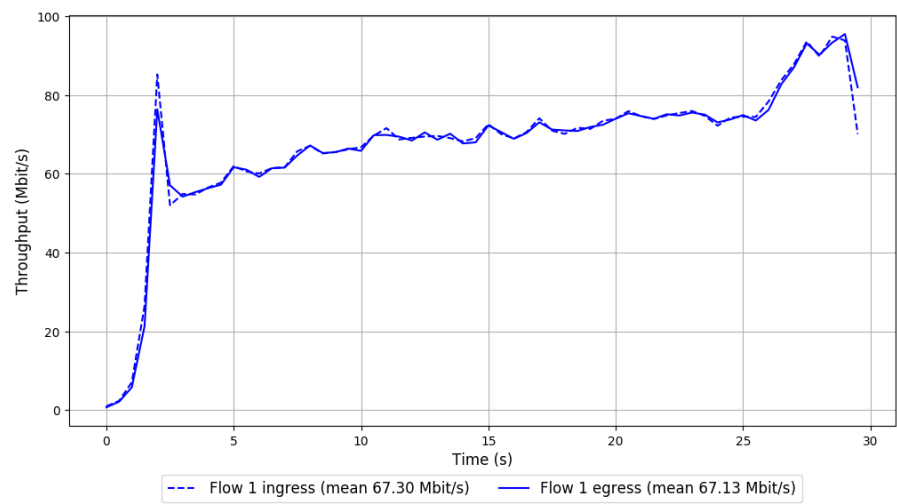
-- Flow 1:

Average throughput: 67.13 Mbit/s

95th percentile per-packet one-way delay: 71.578 ms

Loss rate: 0.26%

Run 8: Report of Vivace-latency — Data Link

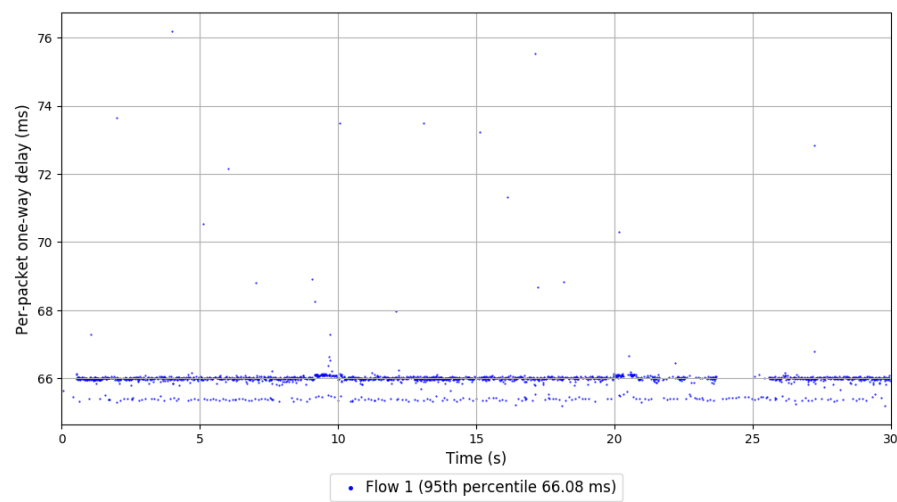
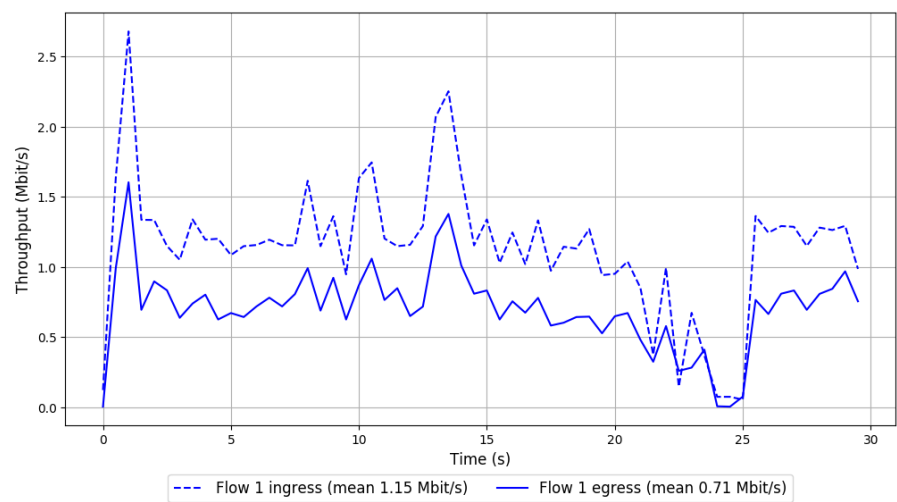


Run 9: Statistics of Vivace-latency

Start at: 2018-02-02 16:26:40
End at: 2018-02-02 16:27:10
Local clock offset: -1.065 ms
Remote clock offset: -0.224 ms

Below is generated by plot.py at 2018-02-02 17:48:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.71 Mbit/s
95th percentile per-packet one-way delay: 66.080 ms
Loss rate: 38.29%
-- Flow 1:
Average throughput: 0.71 Mbit/s
95th percentile per-packet one-way delay: 66.080 ms
Loss rate: 38.29%

Run 9: Report of Vivace-latency — Data Link

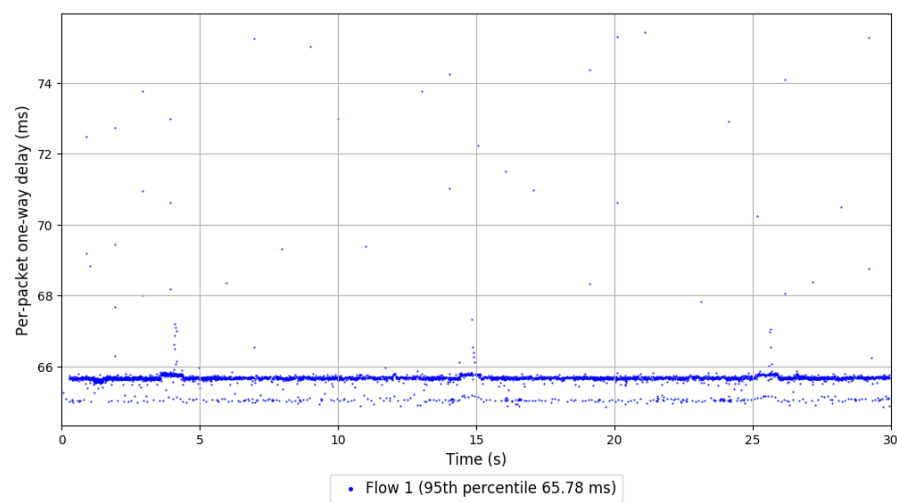
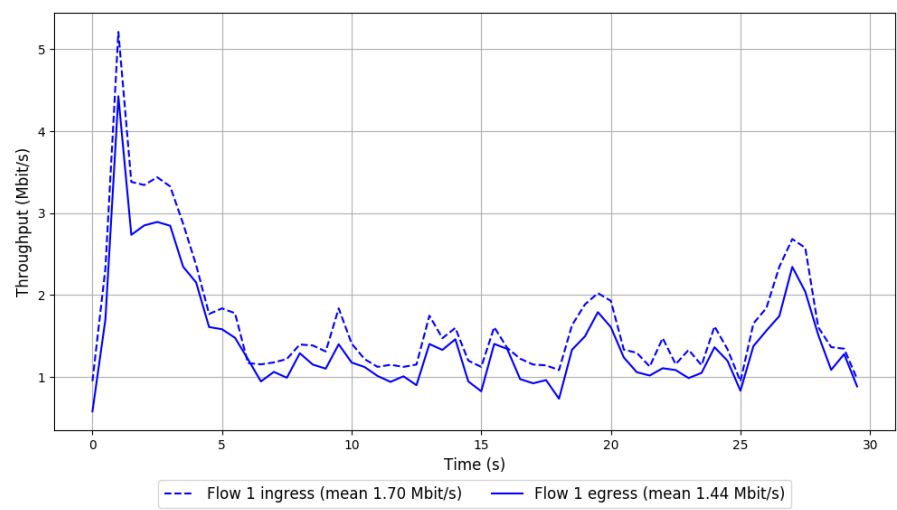


Run 10: Statistics of Vivace-latency

Start at: 2018-02-02 16:51:39
End at: 2018-02-02 16:52:09
Local clock offset: -0.488 ms
Remote clock offset: -0.282 ms

Below is generated by plot.py at 2018-02-02 17:48:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 65.776 ms
Loss rate: 15.61%
-- Flow 1:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 65.776 ms
Loss rate: 15.61%

Run 10: Report of Vivace-latency — Data Link



Run 1: Statistics of Vivace-loss

Start at: 2018-02-02 13:17:30

End at: 2018-02-02 13:18:00

Local clock offset: -0.748 ms

Remote clock offset: 1.382 ms

Below is generated by plot.py at 2018-02-02 17:48:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.77 Mbit/s

95th percentile per-packet one-way delay: 66.246 ms

Loss rate: 9.38%

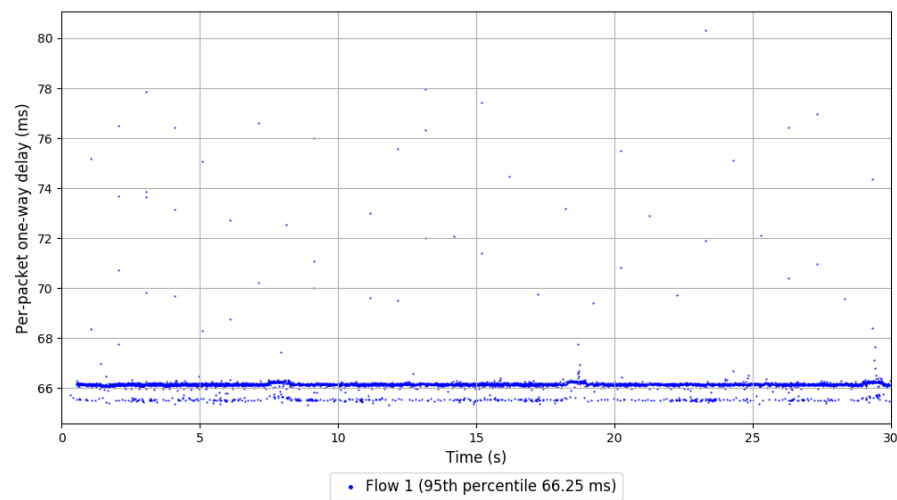
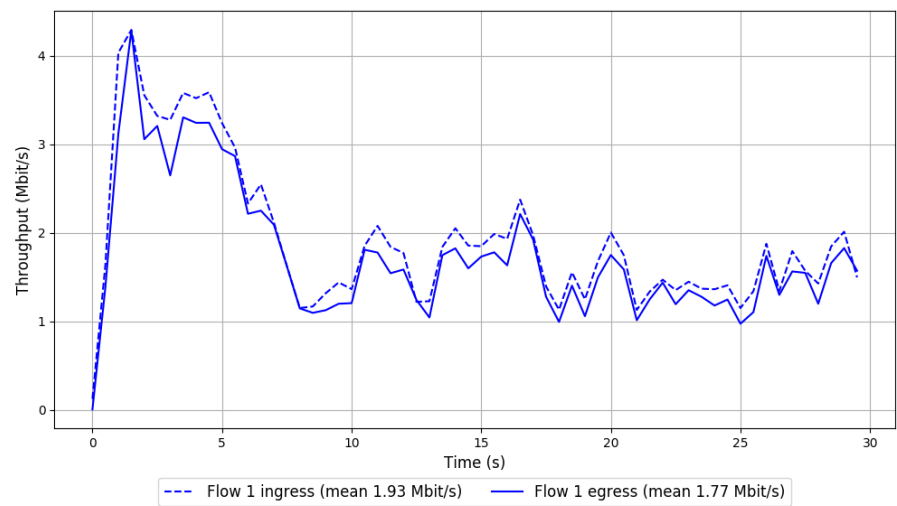
-- Flow 1:

Average throughput: 1.77 Mbit/s

95th percentile per-packet one-way delay: 66.246 ms

Loss rate: 9.38%

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-02 13:41:26

End at: 2018-02-02 13:41:56

Local clock offset: -0.66 ms

Remote clock offset: 2.183 ms

Below is generated by plot.py at 2018-02-02 17:48:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.46 Mbit/s

95th percentile per-packet one-way delay: 66.079 ms

Loss rate: 7.27%

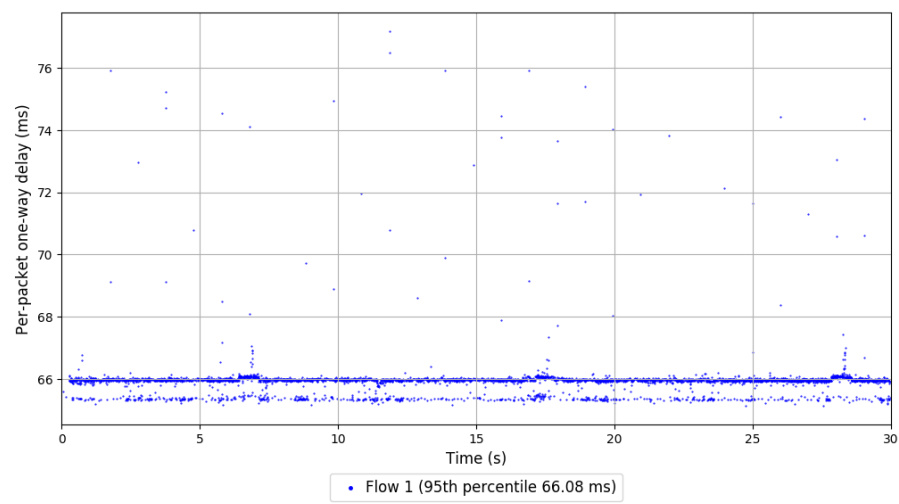
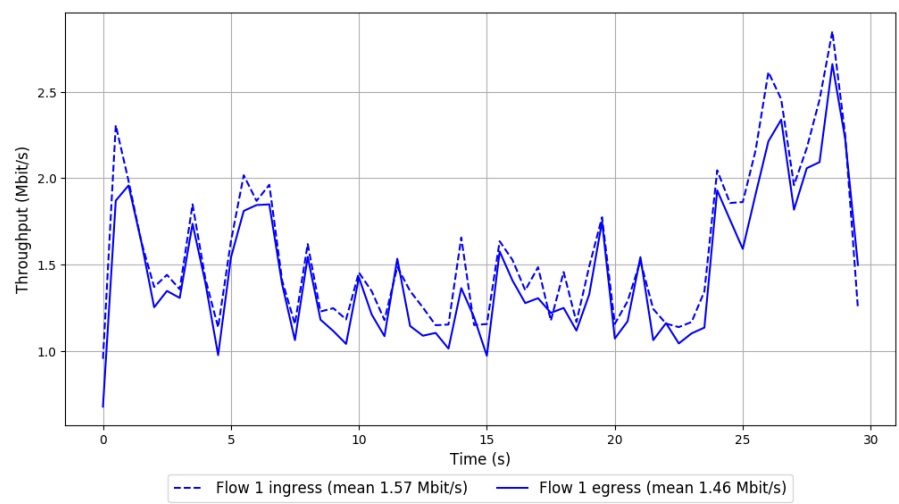
-- Flow 1:

Average throughput: 1.46 Mbit/s

95th percentile per-packet one-way delay: 66.079 ms

Loss rate: 7.27%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-02 14:05:22

End at: 2018-02-02 14:05:52

Local clock offset: -0.673 ms

Remote clock offset: 2.829 ms

Below is generated by plot.py at 2018-02-02 17:48:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 66.338 ms

Loss rate: 4.32%

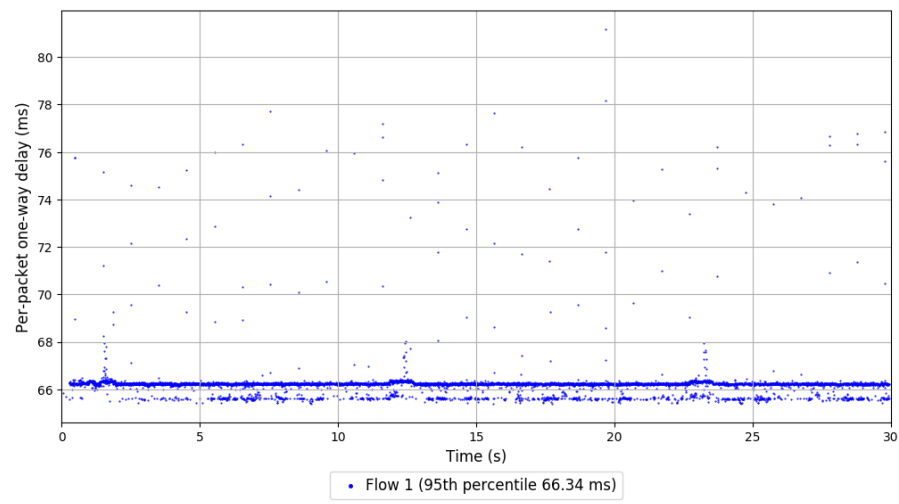
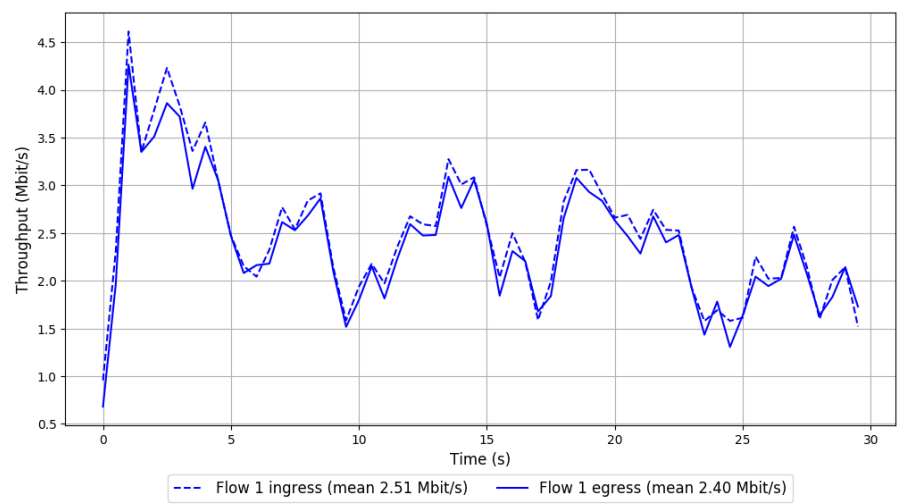
-- Flow 1:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 66.338 ms

Loss rate: 4.32%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-02 14:29:18

End at: 2018-02-02 14:29:48

Local clock offset: -0.744 ms

Remote clock offset: 3.451 ms

Below is generated by plot.py at 2018-02-02 17:48:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.89 Mbit/s

95th percentile per-packet one-way delay: 66.080 ms

Loss rate: 6.63%

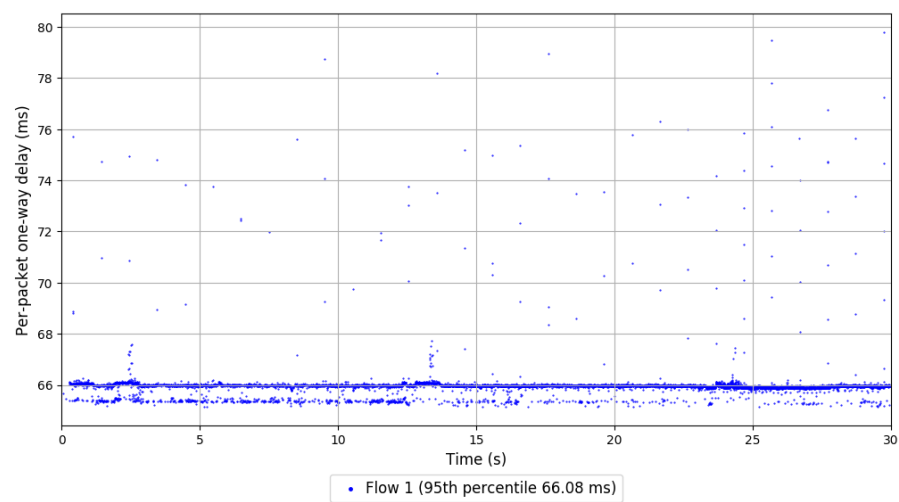
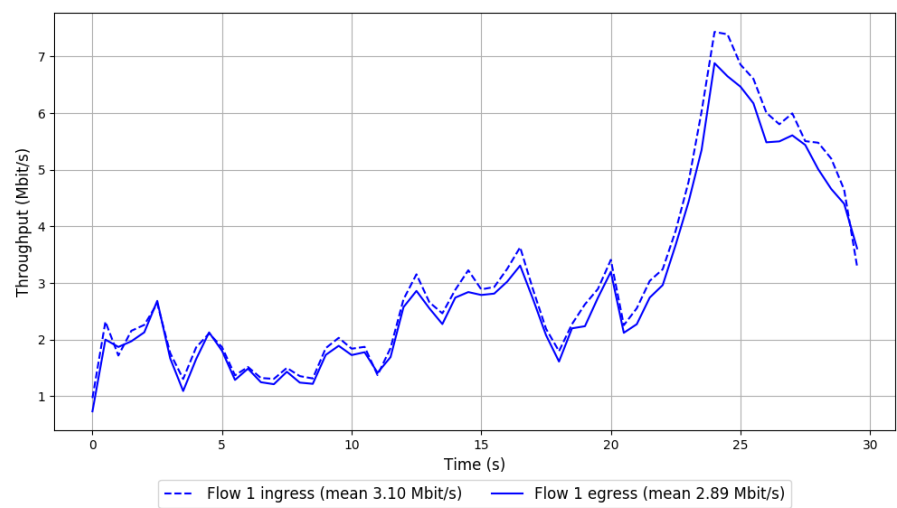
-- Flow 1:

Average throughput: 2.89 Mbit/s

95th percentile per-packet one-way delay: 66.080 ms

Loss rate: 6.63%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-02 14:53:13

End at: 2018-02-02 14:53:43

Local clock offset: -0.803 ms

Remote clock offset: 3.709 ms

Below is generated by plot.py at 2018-02-02 17:48:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.44 Mbit/s

95th percentile per-packet one-way delay: 82.571 ms

Loss rate: 1.78%

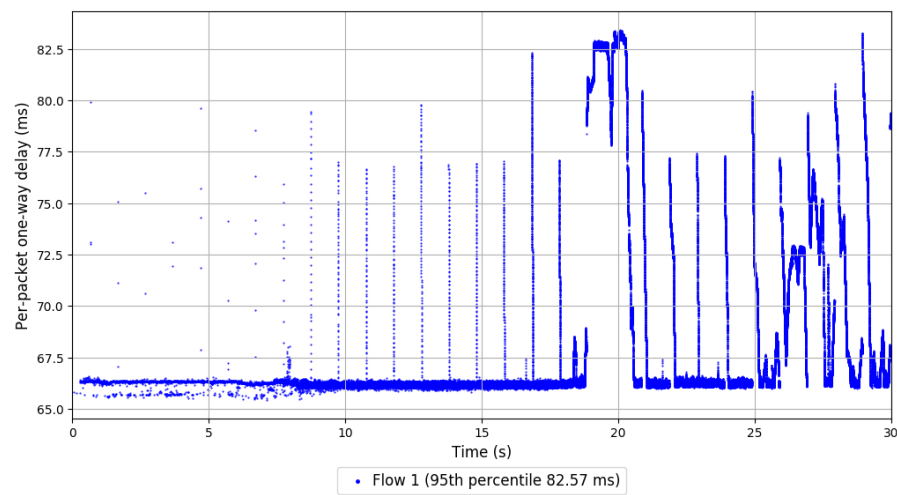
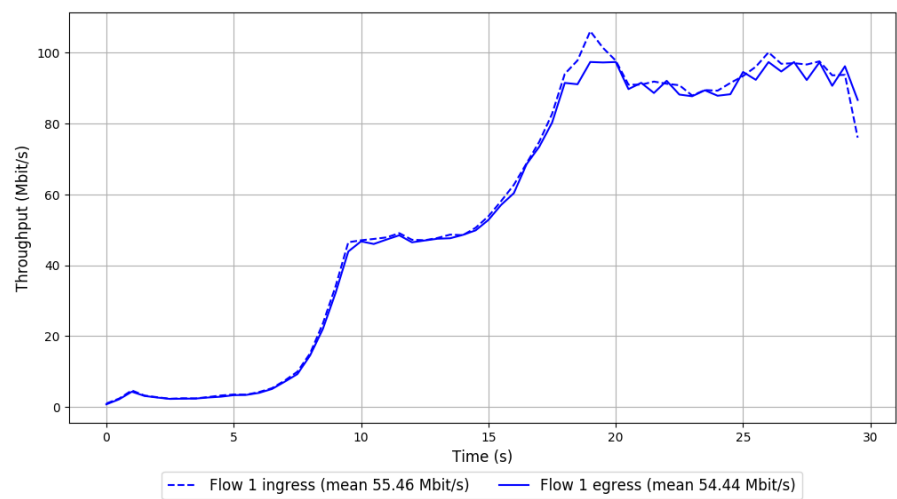
-- Flow 1:

Average throughput: 54.44 Mbit/s

95th percentile per-packet one-way delay: 82.571 ms

Loss rate: 1.78%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-02 15:17:09

End at: 2018-02-02 15:17:39

Local clock offset: -1.219 ms

Remote clock offset: 3.665 ms

Below is generated by plot.py at 2018-02-02 17:48:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.73 Mbit/s

95th percentile per-packet one-way delay: 66.803 ms

Loss rate: 4.20%

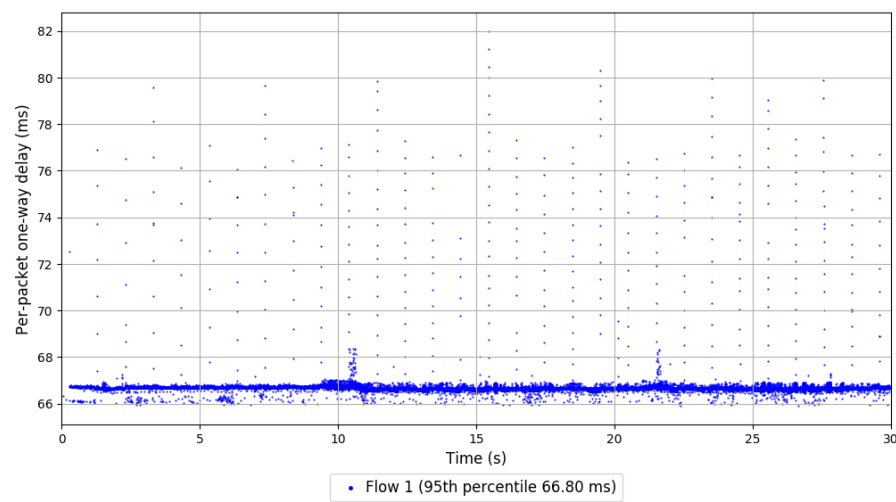
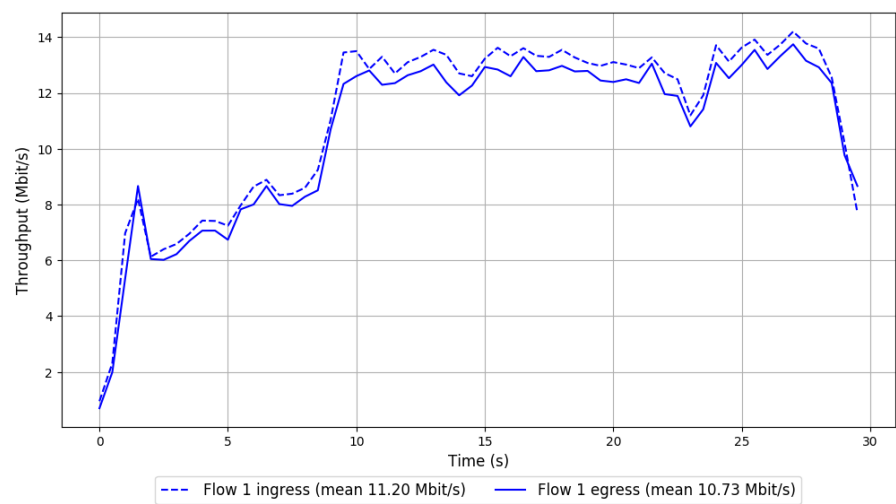
-- Flow 1:

Average throughput: 10.73 Mbit/s

95th percentile per-packet one-way delay: 66.803 ms

Loss rate: 4.20%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-02 15:41:02

End at: 2018-02-02 15:41:32

Local clock offset: -0.74 ms

Remote clock offset: 1.71 ms

Below is generated by plot.py at 2018-02-02 17:48:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.17 Mbit/s

95th percentile per-packet one-way delay: 82.515 ms

Loss rate: 2.01%

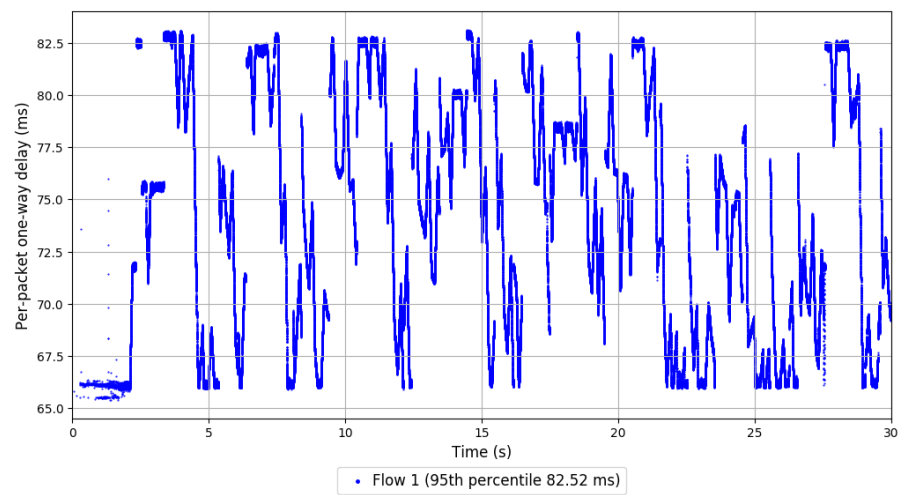
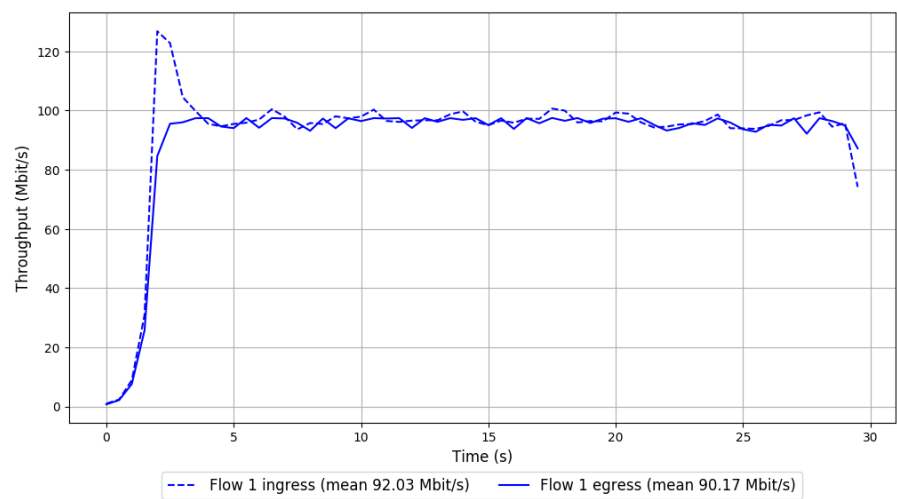
-- Flow 1:

Average throughput: 90.17 Mbit/s

95th percentile per-packet one-way delay: 82.515 ms

Loss rate: 2.01%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-02 16:21:32

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

Local clock offset: -0.581 ms

Remote clock offset: -4.758 ms

Below is generated by plot.py at 2018-02-02 17:48:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.66 Mbit/s

95th percentile per-packet one-way delay: 70.179 ms

Loss rate: 48.11%

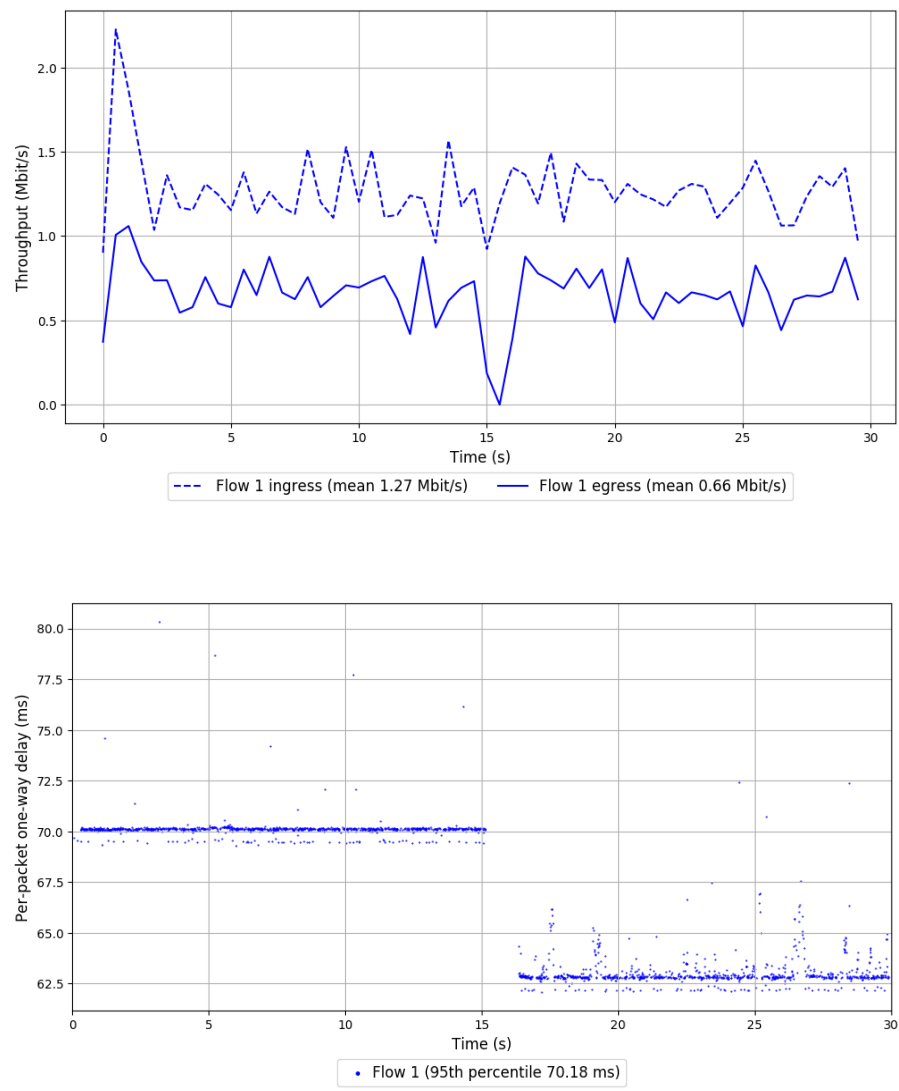
-- Flow 1:

Average throughput: 0.66 Mbit/s

95th percentile per-packet one-way delay: 70.179 ms

Loss rate: 48.11%

Run 8: Report of Vivace-loss — Data Link

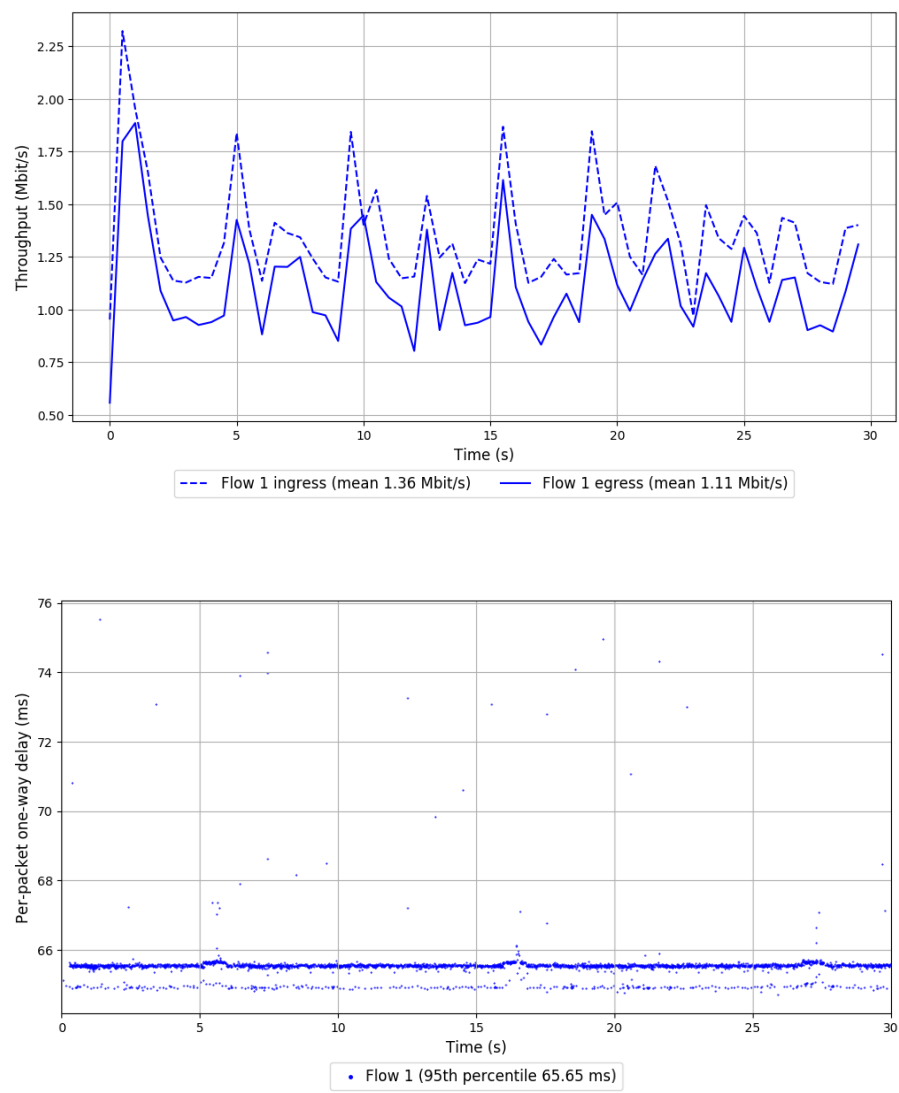


Run 9: Statistics of Vivace-loss

Start at: 2018-02-02 16:47:28
End at: 2018-02-02 16:47:58
Local clock offset: -0.595 ms
Remote clock offset: -0.242 ms

Below is generated by plot.py at 2018-02-02 17:48:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.11 Mbit/s
95th percentile per-packet one-way delay: 65.646 ms
Loss rate: 17.75%
-- Flow 1:
Average throughput: 1.11 Mbit/s
95th percentile per-packet one-way delay: 65.646 ms
Loss rate: 17.75%

Run 9: Report of Vivace-loss — Data Link

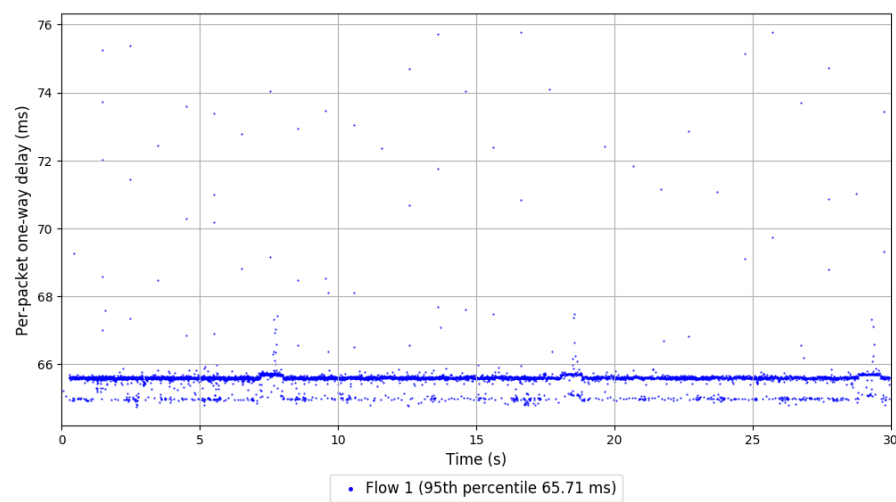
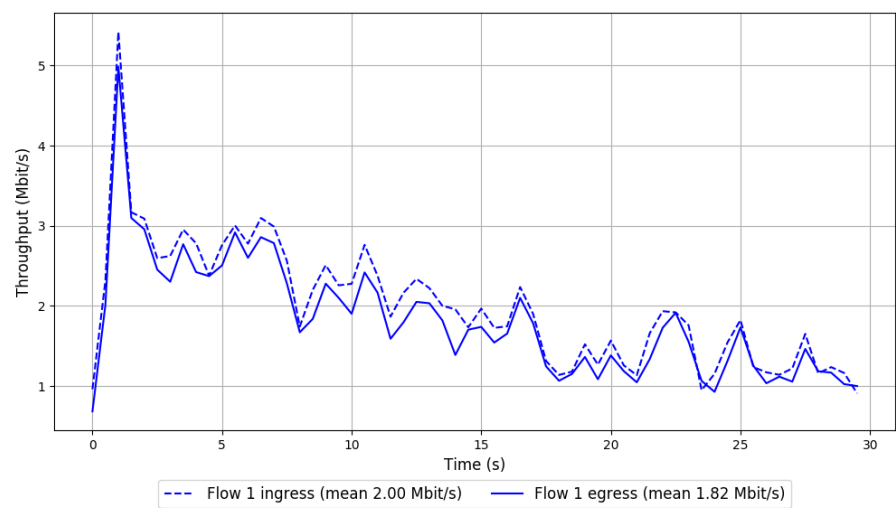


Run 10: Statistics of Vivace-loss

Start at: 2018-02-02 17:11:34
End at: 2018-02-02 17:12:04
Local clock offset: -0.327 ms
Remote clock offset: -0.142 ms

Below is generated by plot.py at 2018-02-02 17:48:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 65.709 ms
Loss rate: 8.80%
-- Flow 1:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 65.709 ms
Loss rate: 8.80%

Run 10: Report of Vivace-loss — Data Link



Run 1: Statistics of Vivace-LTE

Start at: 2018-02-02 13:01:24

End at: 2018-02-02 13:01:54

Local clock offset: -1.101 ms

Remote clock offset: 0.981 ms

Below is generated by plot.py at 2018-02-02 17:48:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.62 Mbit/s

95th percentile per-packet one-way delay: 66.927 ms

Loss rate: 8.04%

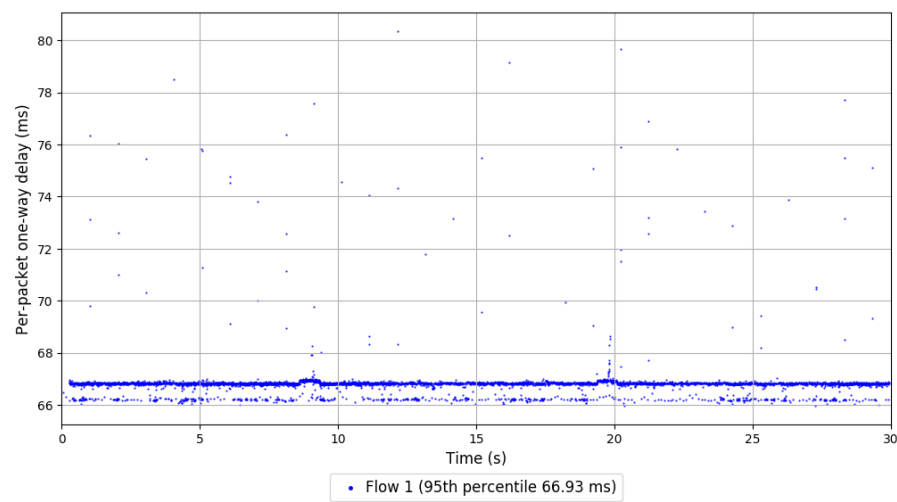
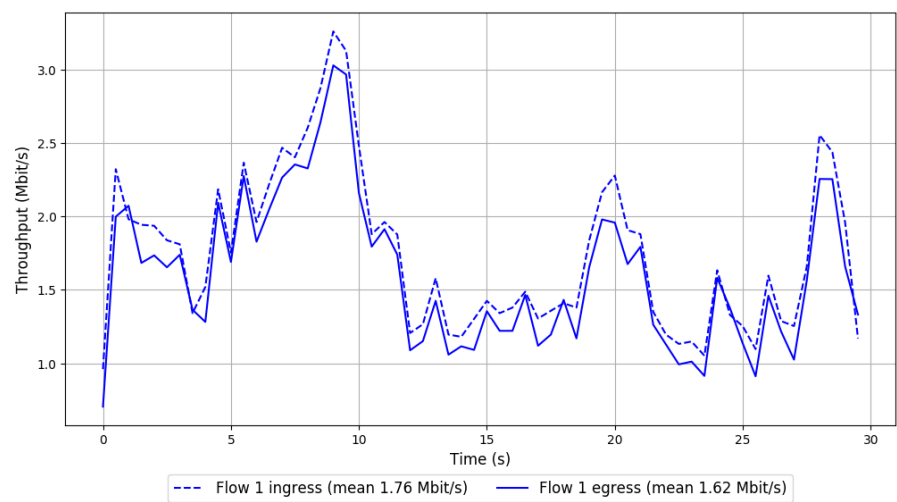
-- Flow 1:

Average throughput: 1.62 Mbit/s

95th percentile per-packet one-way delay: 66.927 ms

Loss rate: 8.04%

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-02 13:25:28

End at: 2018-02-02 13:25:58

Local clock offset: -0.714 ms

Remote clock offset: 1.575 ms

Below is generated by plot.py at 2018-02-02 17:48:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 66.354 ms

Loss rate: 7.03%

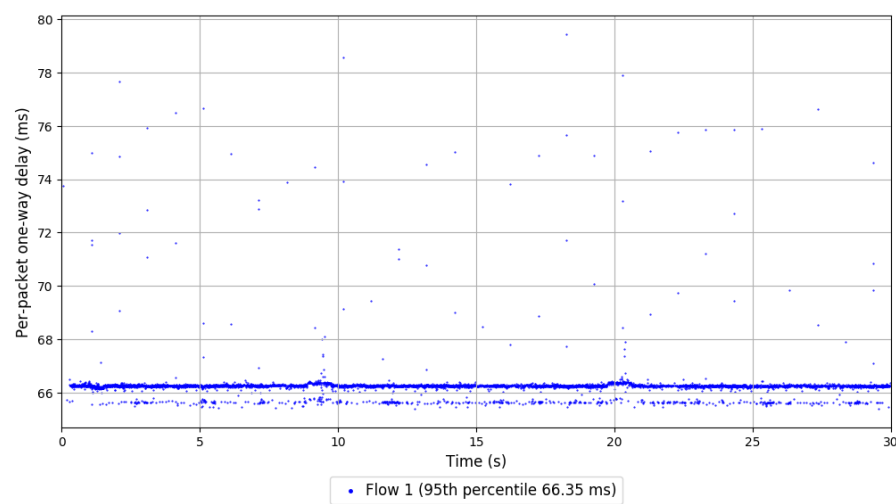
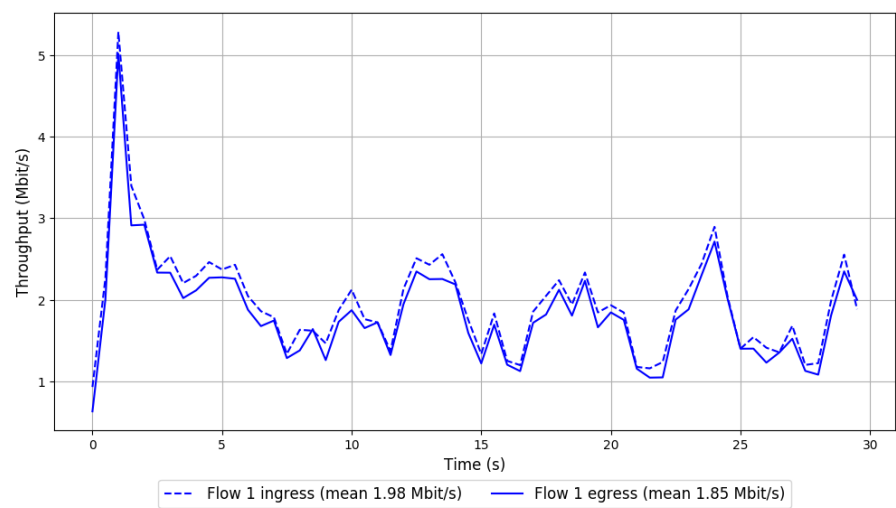
-- Flow 1:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 66.354 ms

Loss rate: 7.03%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-02 13:49:24

End at: 2018-02-02 13:49:54

Local clock offset: -0.583 ms

Remote clock offset: 2.331 ms

Below is generated by plot.py at 2018-02-02 17:48:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 66.209 ms

Loss rate: 8.39%

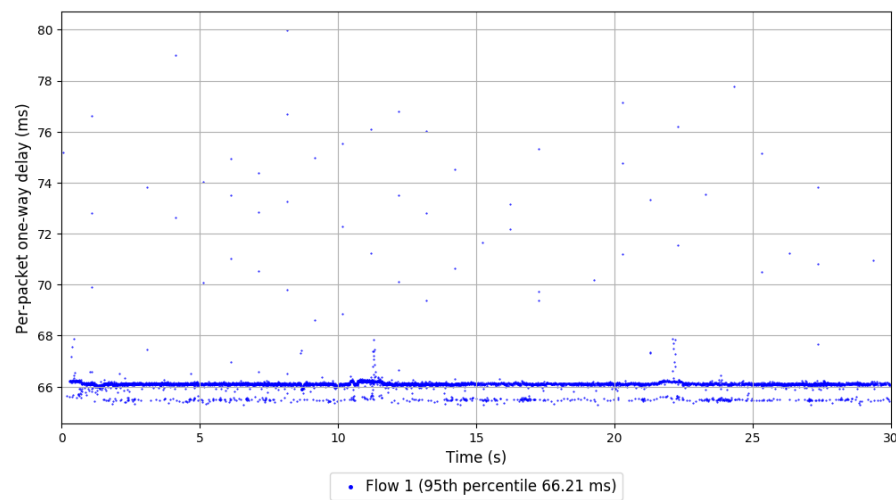
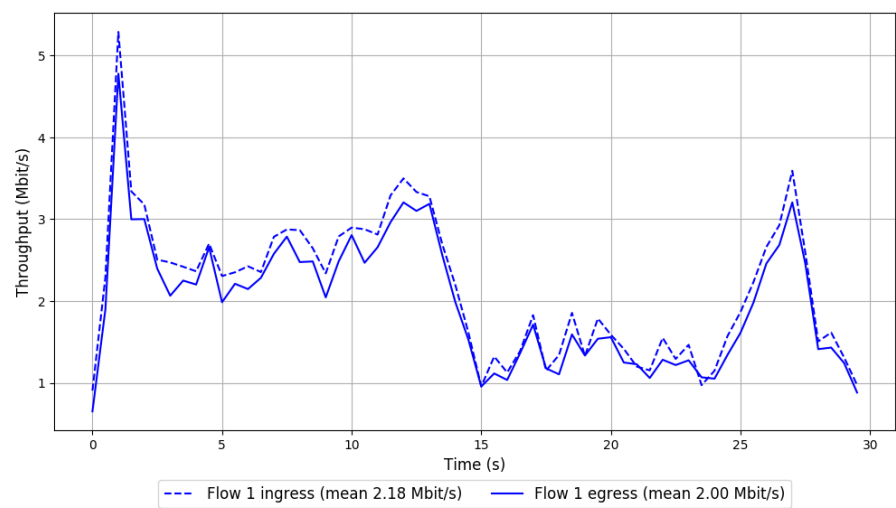
-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 66.209 ms

Loss rate: 8.39%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-02 14:13:15

End at: 2018-02-02 14:13:45

Local clock offset: -0.857 ms

Remote clock offset: 2.963 ms

Below is generated by plot.py at 2018-02-02 17:48:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 66.209 ms

Loss rate: 7.61%

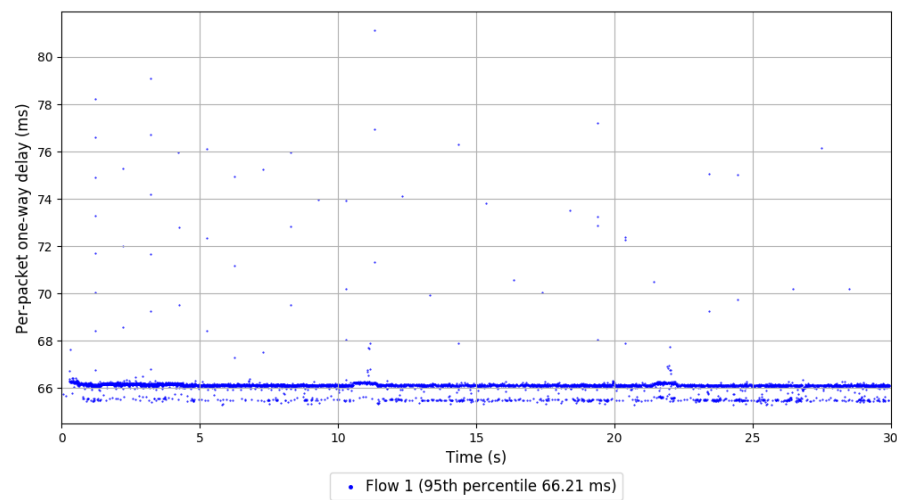
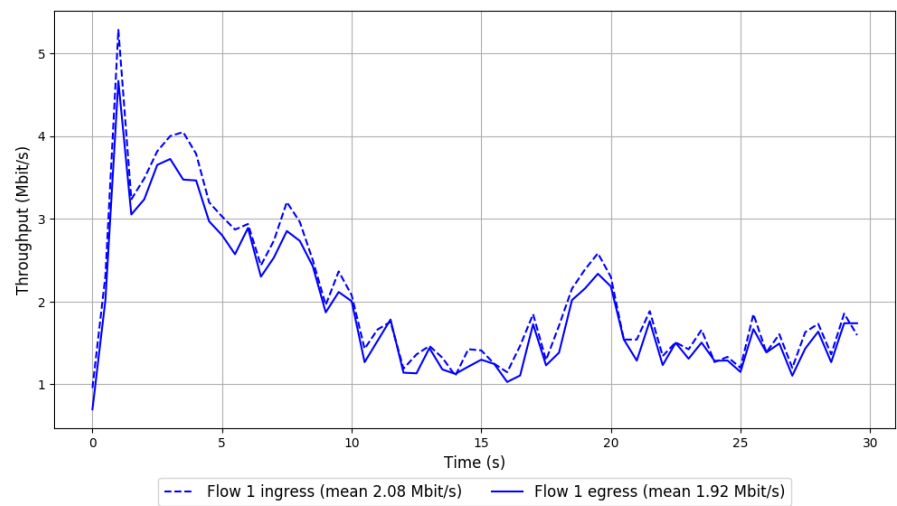
-- Flow 1:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 66.209 ms

Loss rate: 7.61%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-02 14:37:15

End at: 2018-02-02 14:37:45

Local clock offset: -0.719 ms

Remote clock offset: 3.665 ms

Below is generated by plot.py at 2018-02-02 17:48:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 66.357 ms

Loss rate: 6.90%

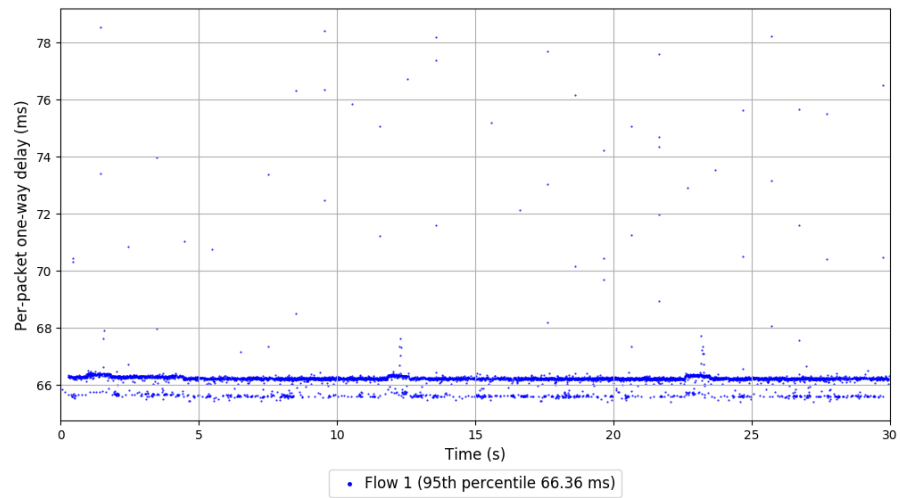
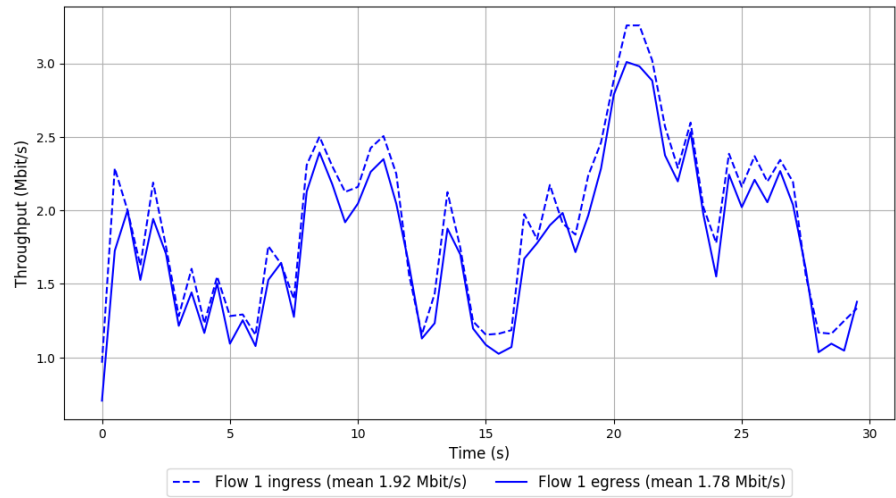
-- Flow 1:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 66.357 ms

Loss rate: 6.90%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-02 15:01:15

End at: 2018-02-02 15:01:45

Local clock offset: -0.379 ms

Remote clock offset: 3.815 ms

Below is generated by plot.py at 2018-02-02 17:48:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.46 Mbit/s

95th percentile per-packet one-way delay: 76.104 ms

Loss rate: 1.46%

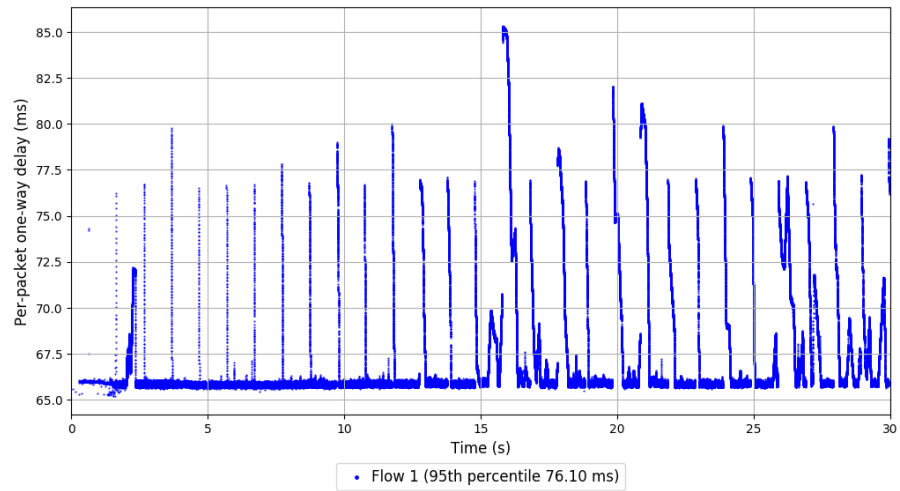
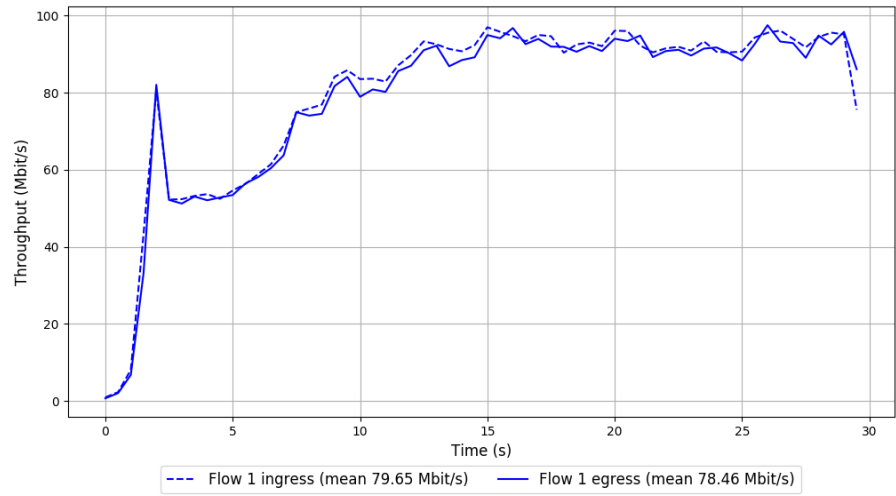
-- Flow 1:

Average throughput: 78.46 Mbit/s

95th percentile per-packet one-way delay: 76.104 ms

Loss rate: 1.46%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-02 15:25:05

End at: 2018-02-02 15:25:35

Local clock offset: -0.711 ms

Remote clock offset: 3.208 ms

Below is generated by plot.py at 2018-02-02 17:48:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.02 Mbit/s

95th percentile per-packet one-way delay: 66.413 ms

Loss rate: 3.08%

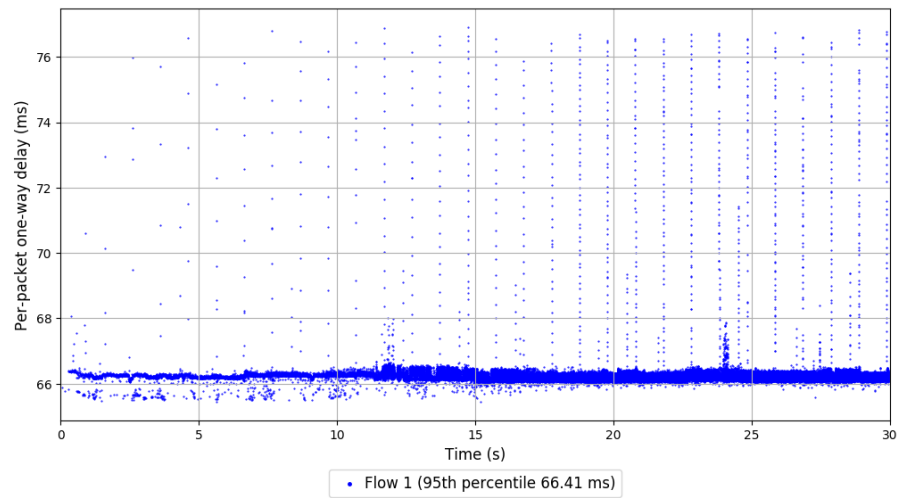
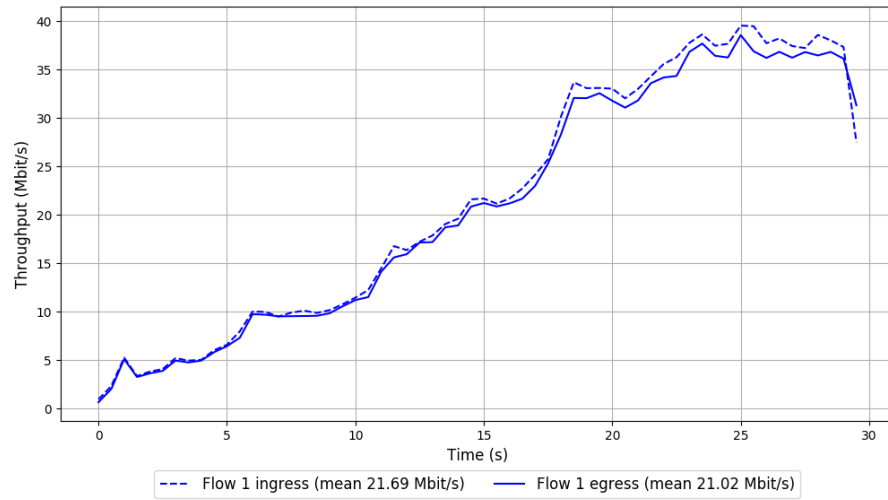
-- Flow 1:

Average throughput: 21.02 Mbit/s

95th percentile per-packet one-way delay: 66.413 ms

Loss rate: 3.08%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-02 15:49:06

End at: 2018-02-02 15:49:36

Local clock offset: -0.787 ms

Remote clock offset: 1.176 ms

Below is generated by plot.py at 2018-02-02 17:48:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.55 Mbit/s

95th percentile per-packet one-way delay: 76.589 ms

Loss rate: 1.36%

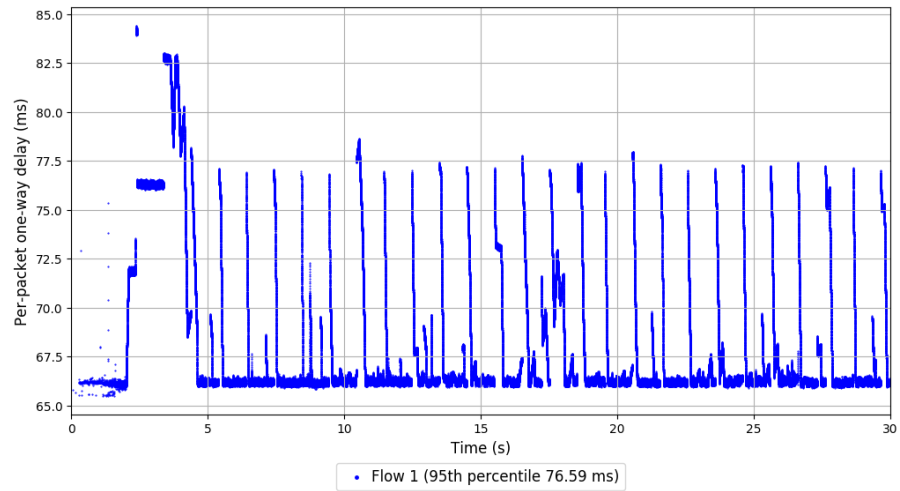
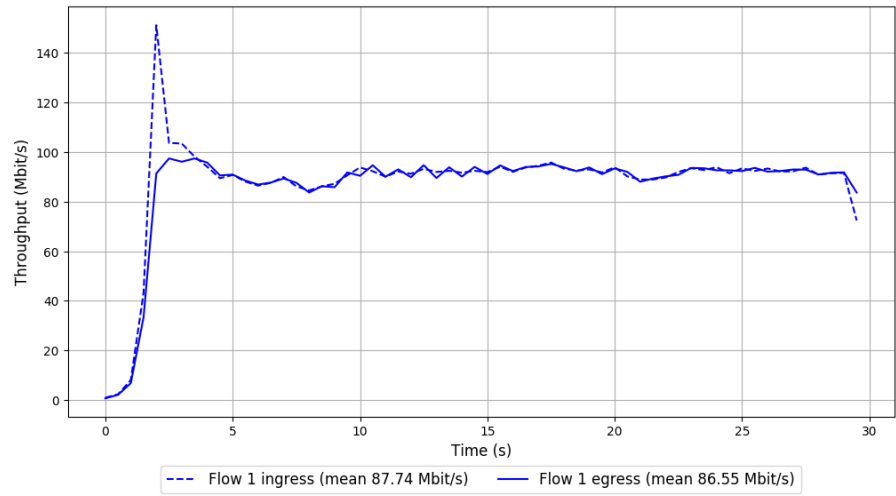
-- Flow 1:

Average throughput: 86.55 Mbit/s

95th percentile per-packet one-way delay: 76.589 ms

Loss rate: 1.36%

Run 8: Report of Vivace-LTE — Data Link

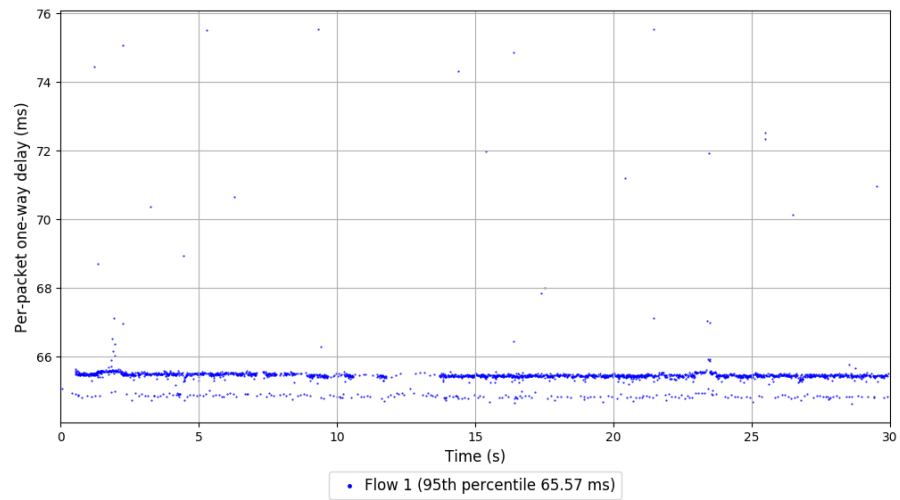
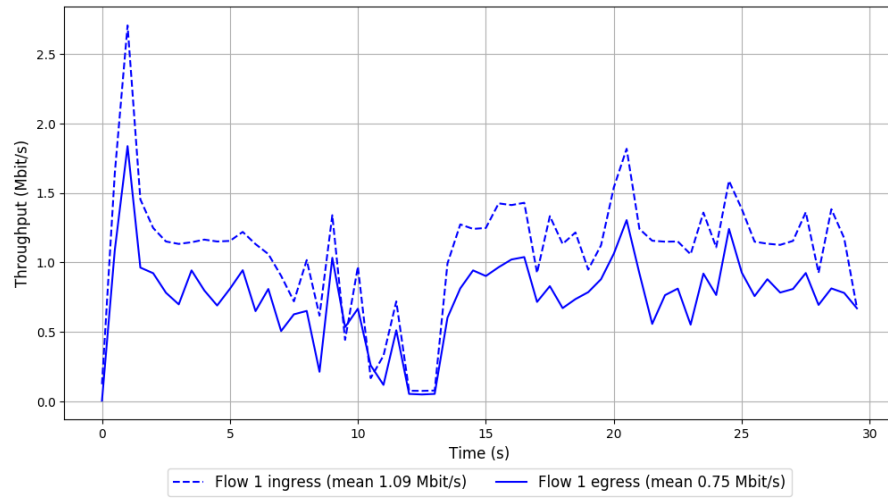


Run 9: Statistics of Vivace-LTE

Start at: 2018-02-02 16:31:10
End at: 2018-02-02 16:31:41
Local clock offset: -0.343 ms
Remote clock offset: -0.301 ms

Below is generated by plot.py at 2018-02-02 17:48:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.75 Mbit/s
95th percentile per-packet one-way delay: 65.567 ms
Loss rate: 31.00%
-- Flow 1:
Average throughput: 0.75 Mbit/s
95th percentile per-packet one-way delay: 65.567 ms
Loss rate: 31.00%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-02 16:55:38

End at: 2018-02-02 16:56:08

Local clock offset: -0.65 ms

Remote clock offset: -0.258 ms

Below is generated by plot.py at 2018-02-02 17:48:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 65.962 ms

Loss rate: 9.53%

-- Flow 1:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 65.962 ms

Loss rate: 9.53%

Run 10: Report of Vivace-LTE — Data Link

