

Pantheon Report

Generated at 2018-02-20 07:12:07 (UTC).

Data path: AWS California 2 Ethernet (*local*) → Mexico 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).

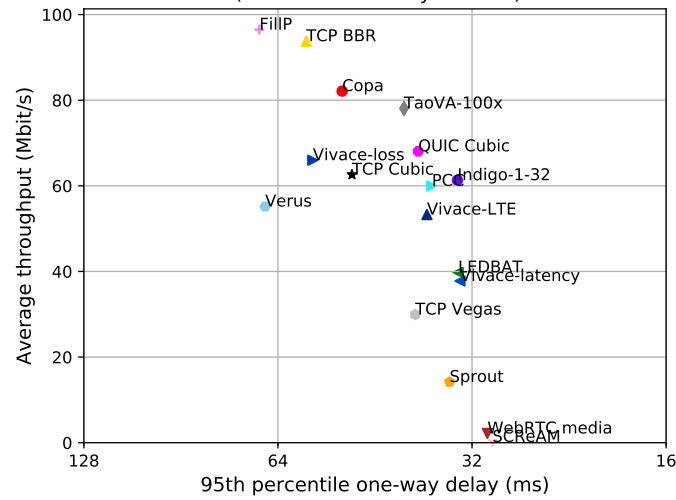
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

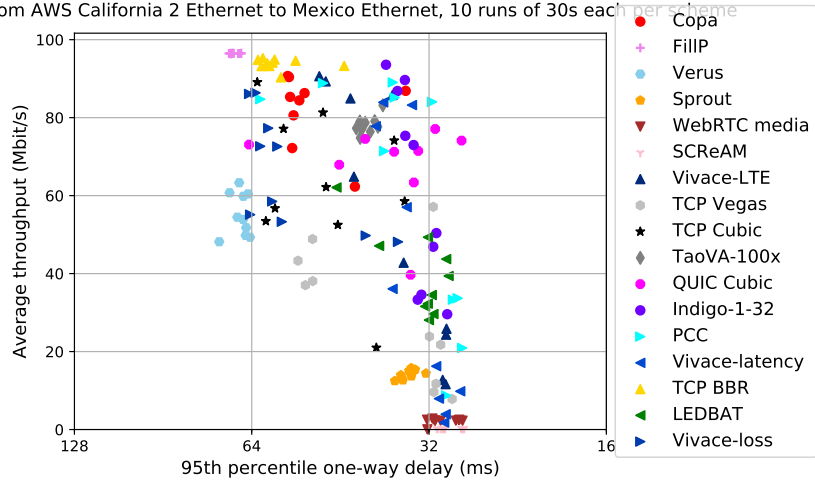
Git summary:

```
branch: master @ f12c42a2c63fdd9a862eefa0468859bf379b6623
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eae30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

test from AWS California 2 Ethernet to Mexico Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from AWS California 2 Ethernet to Mexico 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	93.78	57.84	2.15
TCP Cubic	10	62.61	49.13	0.39
LEDBAT	10	39.77	33.64	0.12
PCC	10	59.99	36.94	0.47
QUIC Cubic	9	68.07	38.78	0.31
SCReAM	10	0.21	29.75	0.08
WebRTC media	10	2.17	30.29	0.05
Sprout	10	14.19	34.68	0.04
TaoVA-100x	10	78.08	40.80	0.16
TCP Vegas	10	29.93	39.20	0.14
Verus	10	55.17	67.00	31.61
Copa	9	82.13	50.89	70.58
FillP	10	96.48	68.39	22.52
Indigo-1-32	10	61.31	33.71	0.27
Vivace-latency	10	37.77	33.41	0.14
Vivace-loss	10	65.98	56.50	2.79
Vivace-LTE	10	53.30	37.59	0.47

Run 1: Statistics of TCP BBR

Start at: 2018-02-20 01:59:37

End at: 2018-02-20 02:00:07

Local clock offset: -4.931 ms

Remote clock offset: -2.45 ms

Below is generated by plot.py at 2018-02-20 06:48:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.22 Mbit/s

95th percentile per-packet one-way delay: 61.597 ms

Loss rate: 2.52%

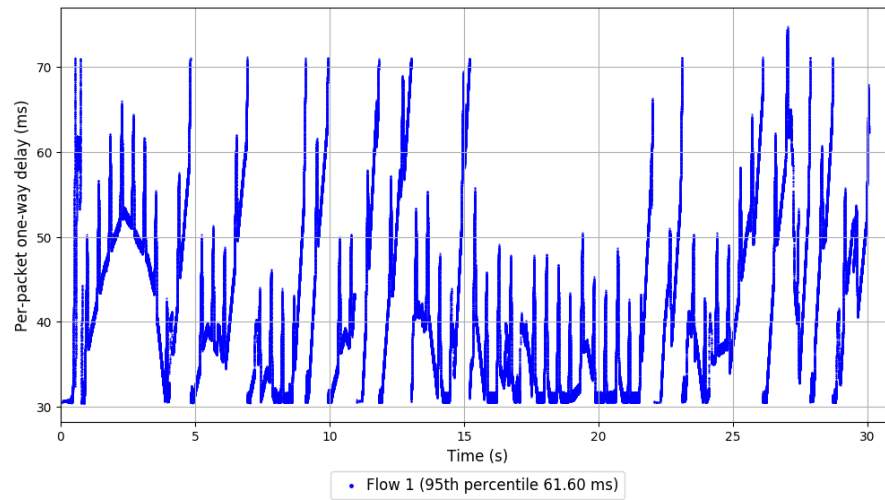
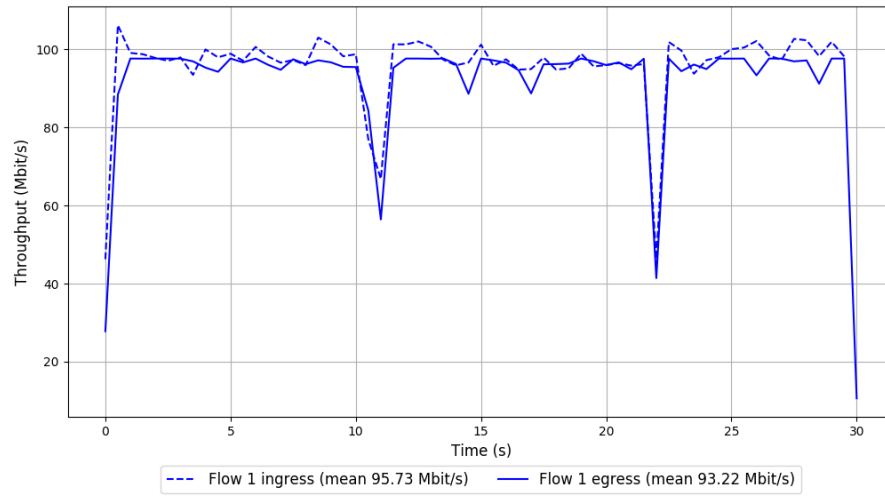
-- Flow 1:

Average throughput: 93.22 Mbit/s

95th percentile per-packet one-way delay: 61.597 ms

Loss rate: 2.52%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-20 02:29:03

End at: 2018-02-20 02:29:33

Local clock offset: -4.365 ms

Remote clock offset: -4.801 ms

Below is generated by plot.py at 2018-02-20 06:48:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.61 Mbit/s

95th percentile per-packet one-way delay: 53.920 ms

Loss rate: 1.48%

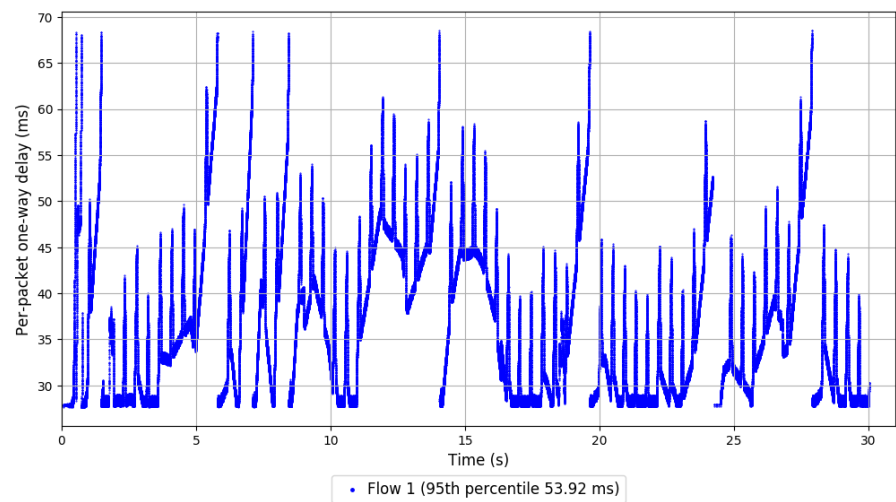
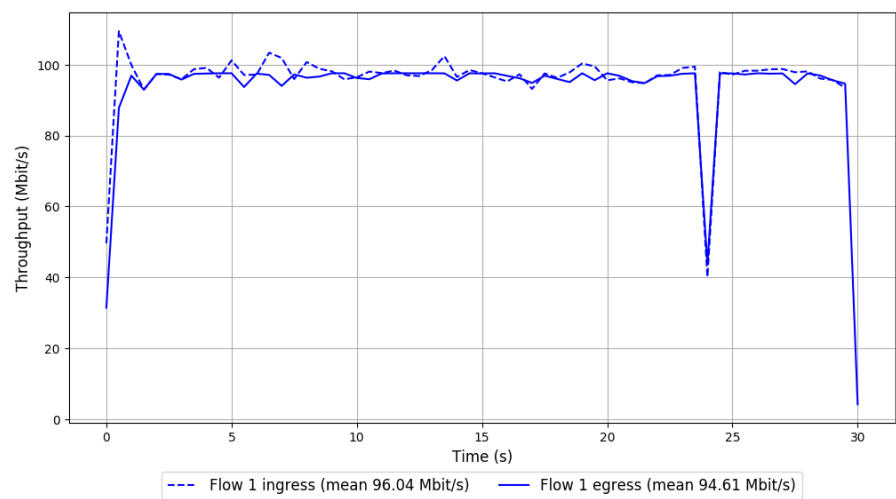
-- Flow 1:

Average throughput: 94.61 Mbit/s

95th percentile per-packet one-way delay: 53.920 ms

Loss rate: 1.48%

Run 2: Report of TCP BBR — Data Link

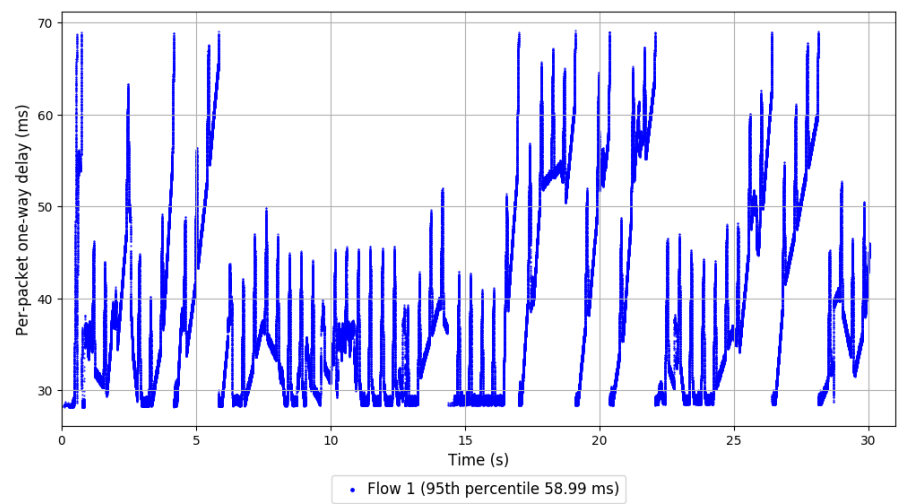
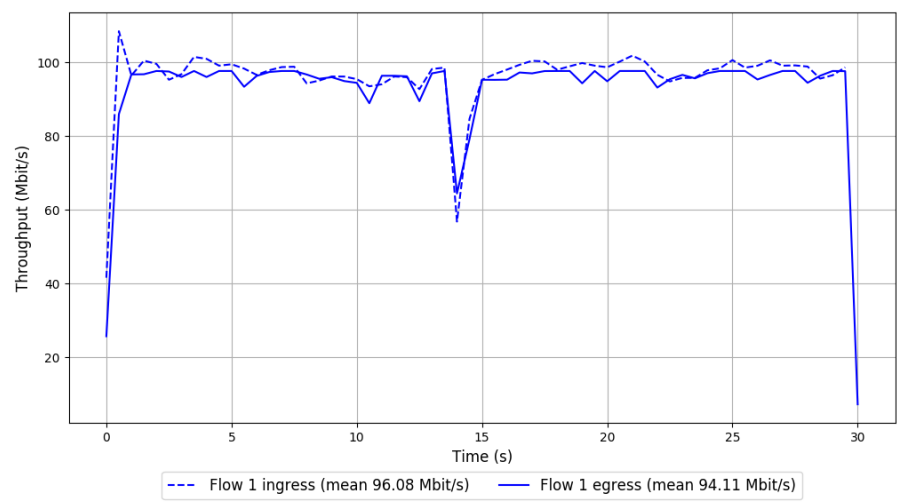


Run 3: Statistics of TCP BBR

Start at: 2018-02-20 03:00:39
End at: 2018-02-20 03:01:09
Local clock offset: -0.713 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2018-02-20 06:48:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.11 Mbit/s
95th percentile per-packet one-way delay: 58.995 ms
Loss rate: 2.00%
-- Flow 1:
Average throughput: 94.11 Mbit/s
95th percentile per-packet one-way delay: 58.995 ms
Loss rate: 2.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-20 03:29:20

End at: 2018-02-20 03:29:50

Local clock offset: 7.121 ms

Remote clock offset: -8.916 ms

Below is generated by plot.py at 2018-02-20 06:48:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.97 Mbit/s

95th percentile per-packet one-way delay: 60.219 ms

Loss rate: 2.14%

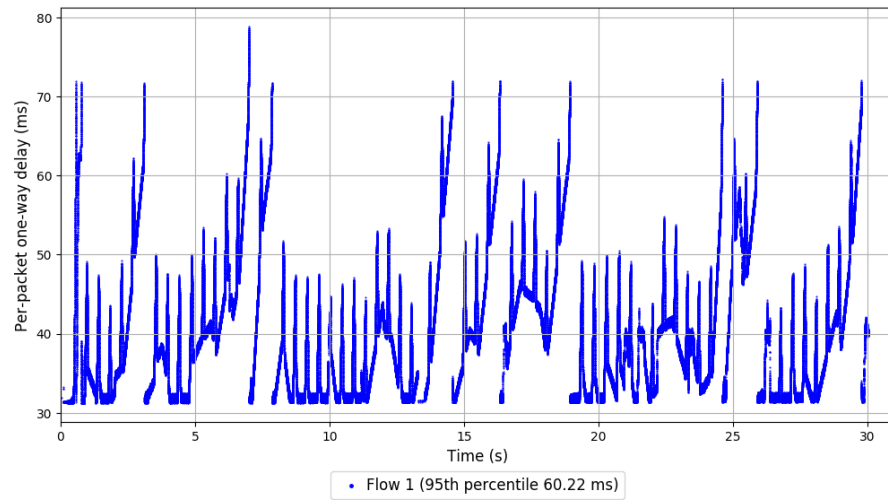
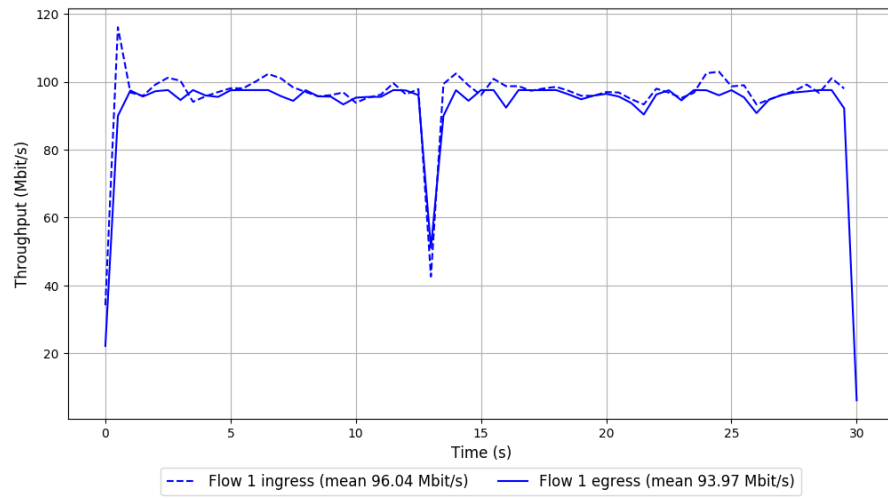
-- Flow 1:

Average throughput: 93.97 Mbit/s

95th percentile per-packet one-way delay: 60.219 ms

Loss rate: 2.14%

Run 4: Report of TCP BBR — Data Link

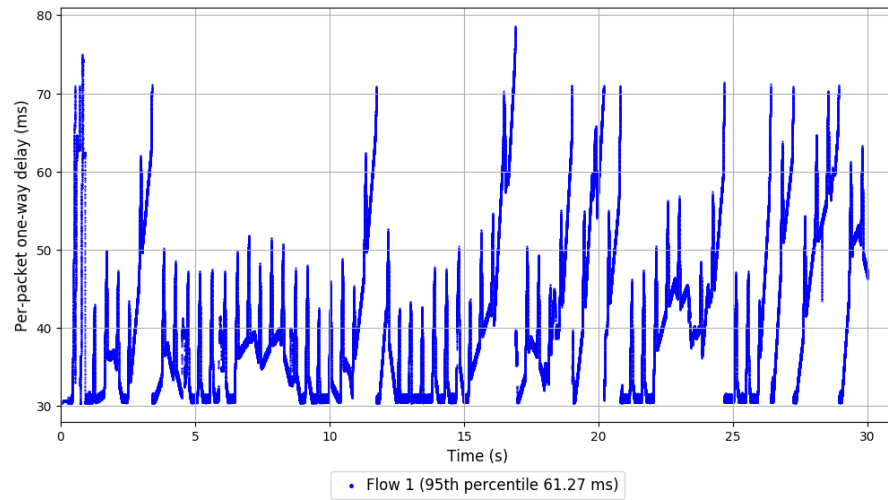
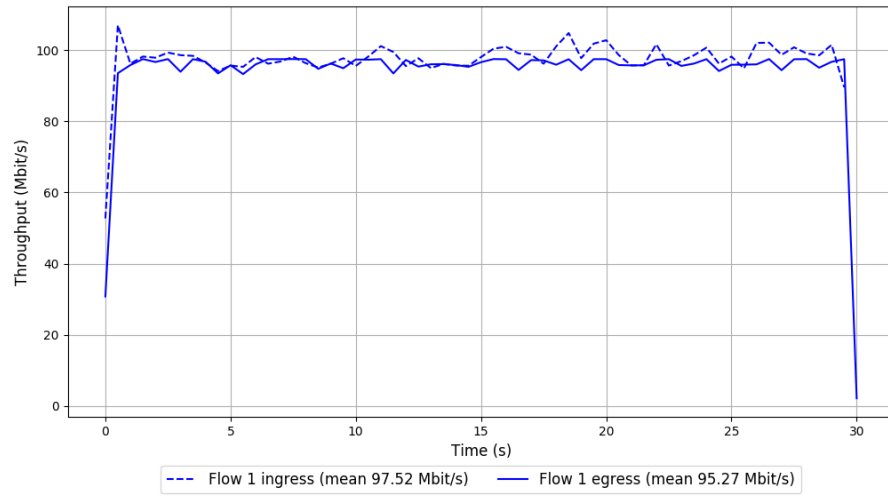


Run 5: Statistics of TCP BBR

Start at: 2018-02-20 03:57:43
End at: 2018-02-20 03:58:13
Local clock offset: 1.77 ms
Remote clock offset: -10.941 ms

Below is generated by plot.py at 2018-02-20 06:48:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.27 Mbit/s
95th percentile per-packet one-way delay: 61.270 ms
Loss rate: 2.25%
-- Flow 1:
Average throughput: 95.27 Mbit/s
95th percentile per-packet one-way delay: 61.270 ms
Loss rate: 2.25%

Run 5: Report of TCP BBR — Data Link

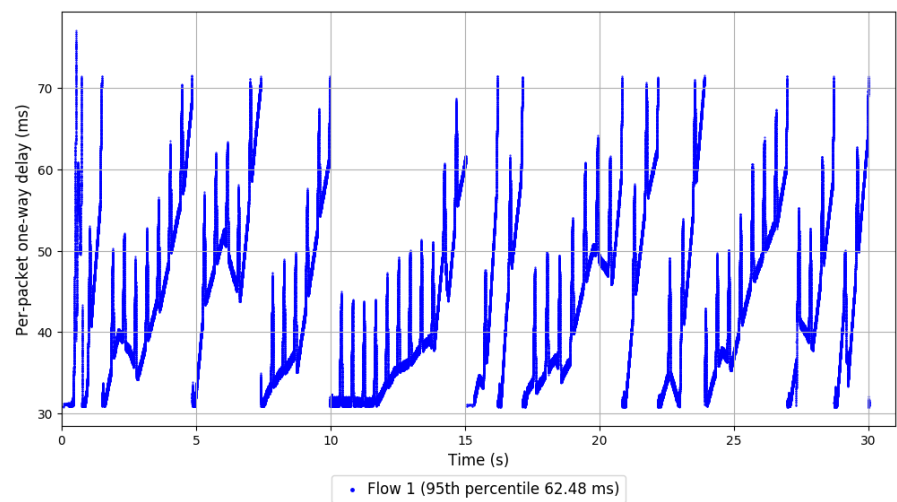
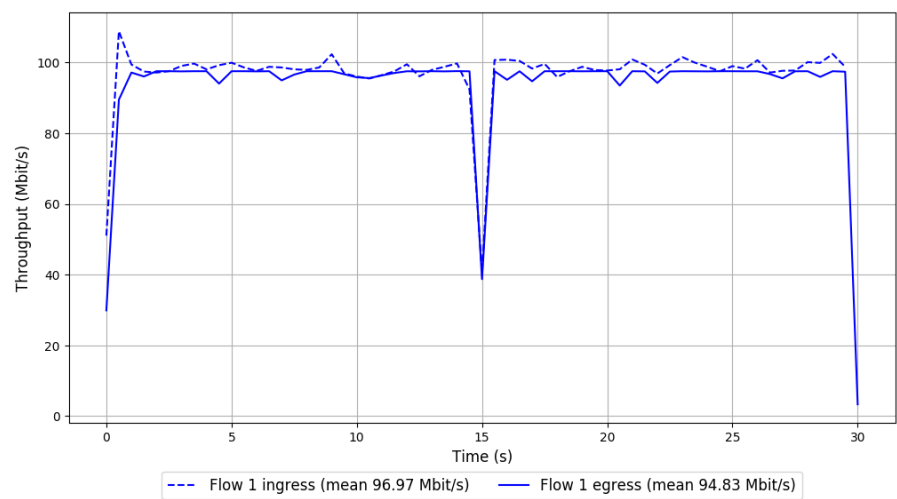


Run 6: Statistics of TCP BBR

Start at: 2018-02-20 04:27:13
End at: 2018-02-20 04:27:43
Local clock offset: -5.065 ms
Remote clock offset: -7.263 ms

Below is generated by plot.py at 2018-02-20 06:48:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.83 Mbit/s
95th percentile per-packet one-way delay: 62.476 ms
Loss rate: 2.21%
-- Flow 1:
Average throughput: 94.83 Mbit/s
95th percentile per-packet one-way delay: 62.476 ms
Loss rate: 2.21%

Run 6: Report of TCP BBR — Data Link

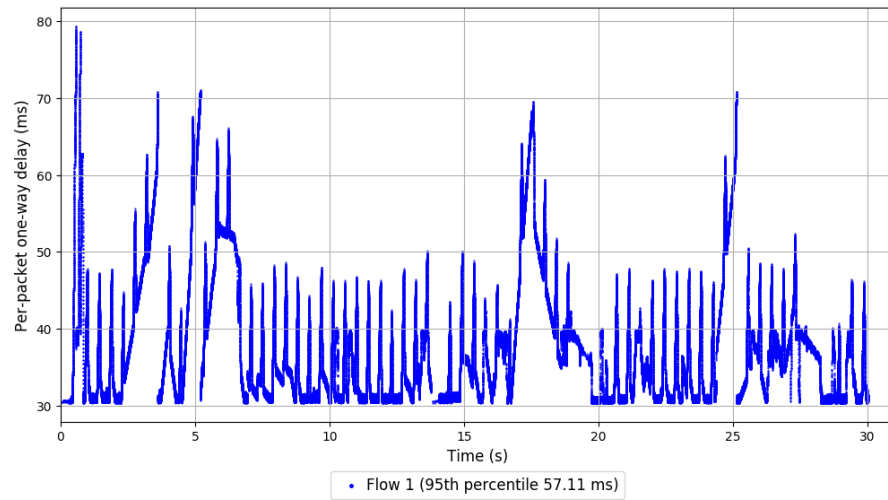
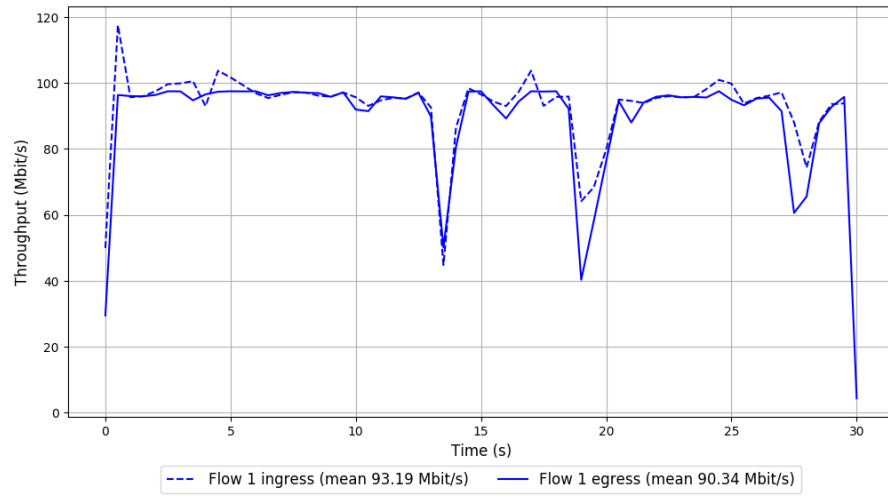


Run 7: Statistics of TCP BBR

Start at: 2018-02-20 04:54:42
End at: 2018-02-20 04:55:12
Local clock offset: -0.665 ms
Remote clock offset: -3.948 ms

Below is generated by plot.py at 2018-02-20 06:48:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.34 Mbit/s
95th percentile per-packet one-way delay: 57.106 ms
Loss rate: 3.06%
-- Flow 1:
Average throughput: 90.34 Mbit/s
95th percentile per-packet one-way delay: 57.106 ms
Loss rate: 3.06%

Run 7: Report of TCP BBR — Data Link

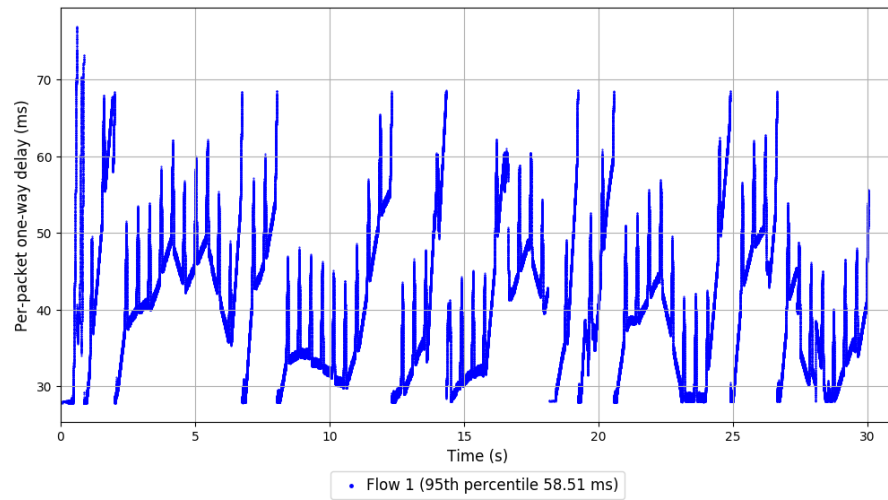
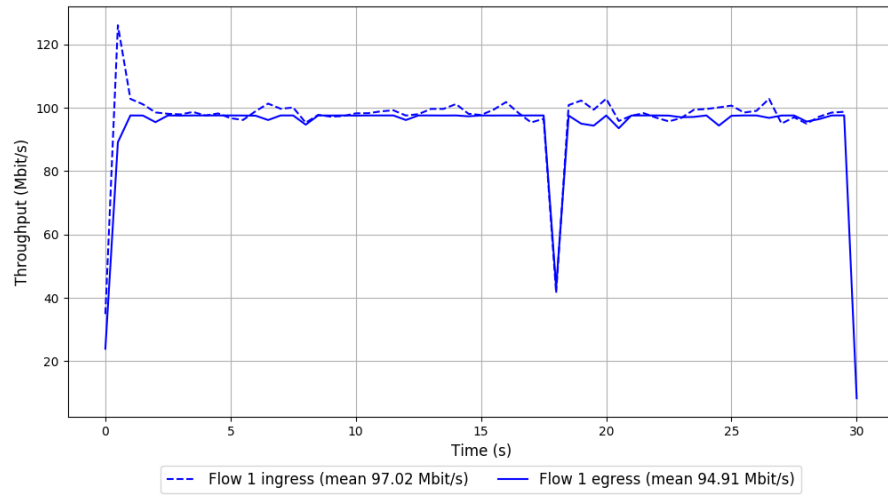


Run 8: Statistics of TCP BBR

Start at: 2018-02-20 05:23:30
End at: 2018-02-20 05:24:00
Local clock offset: 0.342 ms
Remote clock offset: -3.083 ms

Below is generated by plot.py at 2018-02-20 06:48:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.91 Mbit/s
95th percentile per-packet one-way delay: 58.510 ms
Loss rate: 2.10%
-- Flow 1:
Average throughput: 94.91 Mbit/s
95th percentile per-packet one-way delay: 58.510 ms
Loss rate: 2.10%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-20 05:49:42

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

Local clock offset: 0.494 ms

Remote clock offset: -2.231 ms

Below is generated by plot.py at 2018-02-20 06:49:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.28 Mbit/s

95th percentile per-packet one-way delay: 44.582 ms

Loss rate: 0.69%

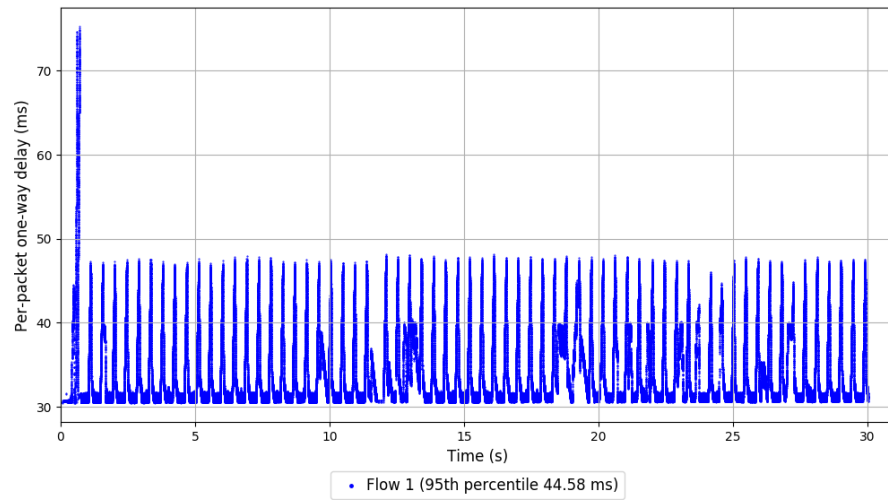
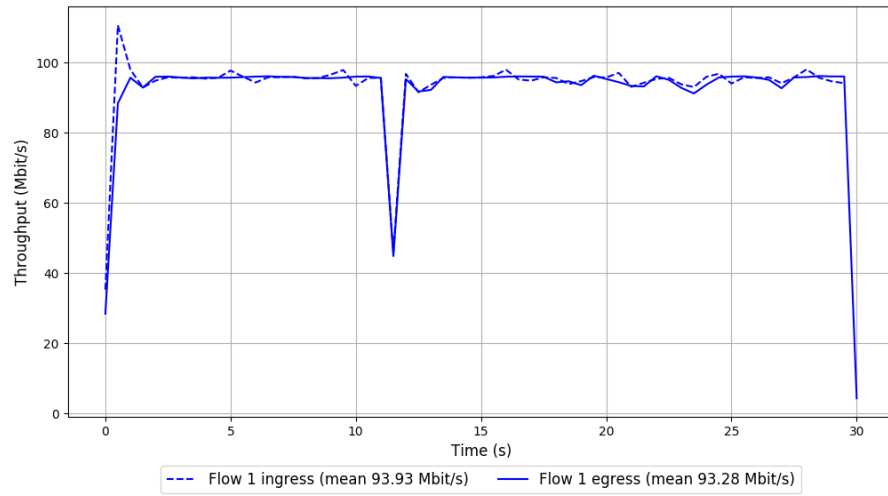
-- Flow 1:

Average throughput: 93.28 Mbit/s

95th percentile per-packet one-way delay: 44.582 ms

Loss rate: 0.69%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-20 06:15:44

End at: 2018-02-20 06:16:14

Local clock offset: 3.338 ms

Remote clock offset: -3.74 ms

Below is generated by plot.py at 2018-02-20 06:49:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.24 Mbit/s

95th percentile per-packet one-way delay: 59.763 ms

Loss rate: 3.08%

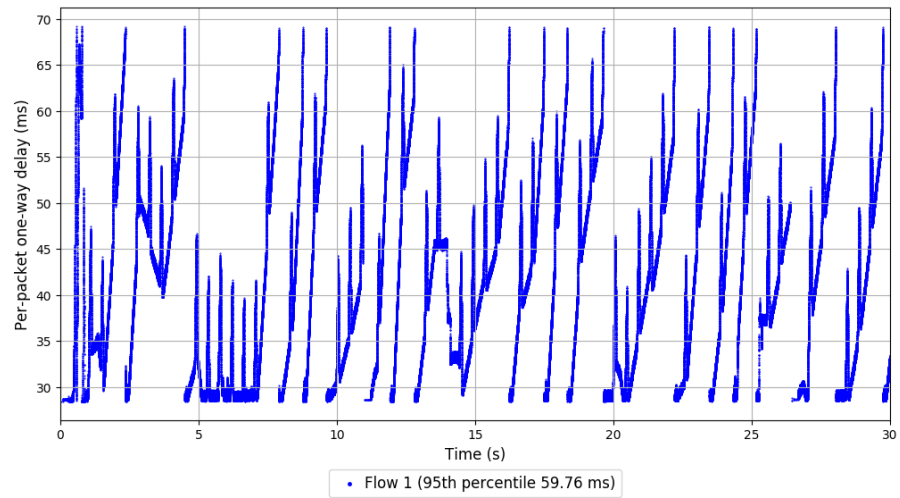
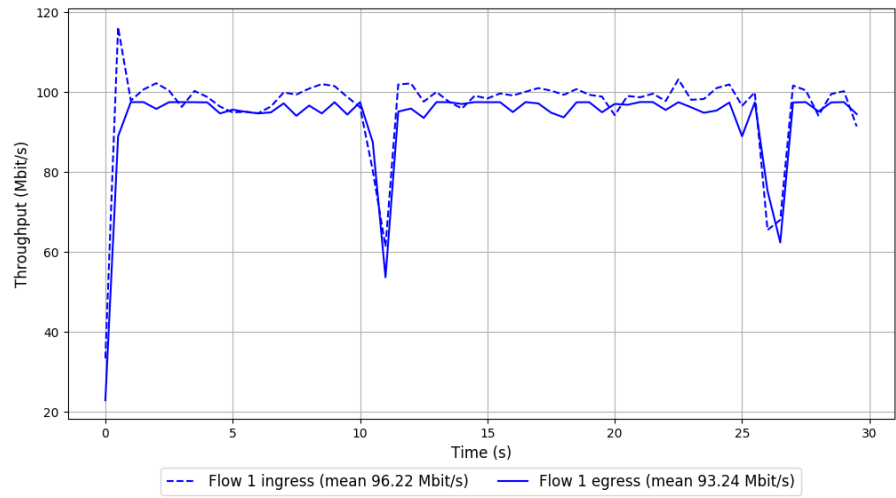
-- Flow 1:

Average throughput: 93.24 Mbit/s

95th percentile per-packet one-way delay: 59.763 ms

Loss rate: 3.08%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-20 02:01:33

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

Local clock offset: -4.88 ms

Remote clock offset: -4.656 ms

Below is generated by plot.py at 2018-02-20 06:49:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.47 Mbit/s

95th percentile per-packet one-way delay: 60.561 ms

Loss rate: 0.58%

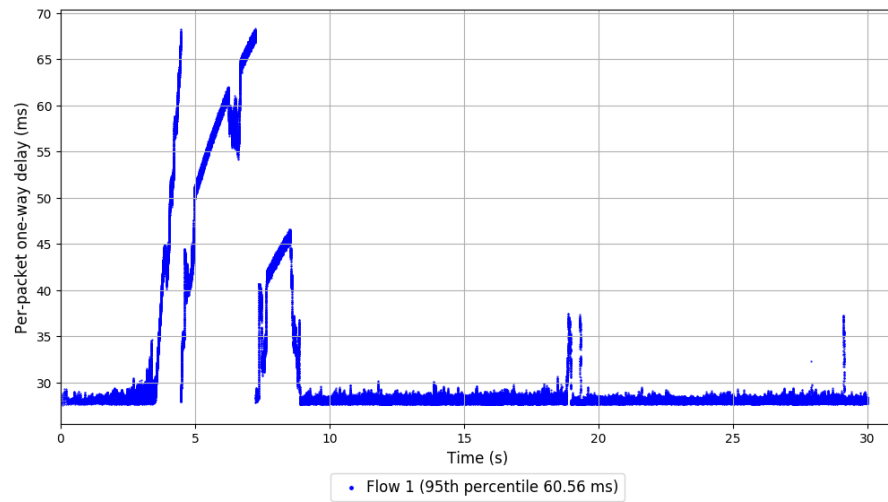
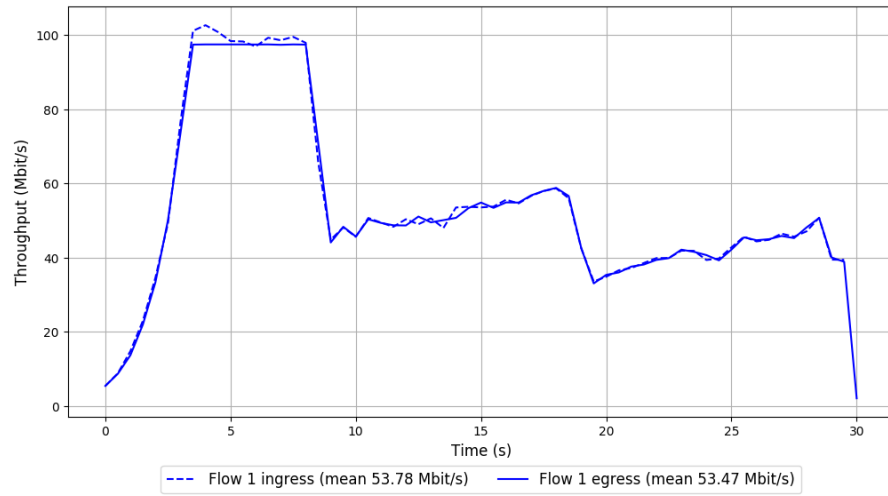
-- Flow 1:

Average throughput: 53.47 Mbit/s

95th percentile per-packet one-way delay: 60.561 ms

Loss rate: 0.58%

Run 1: Report of TCP Cubic — Data Link

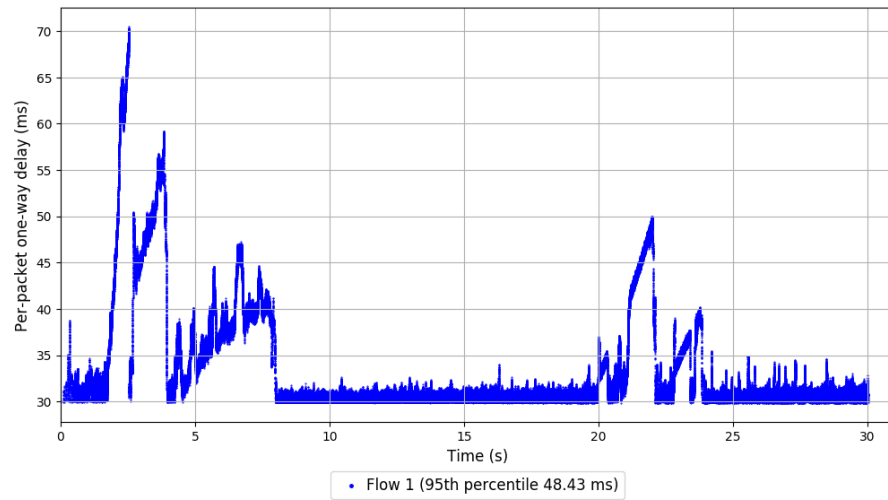
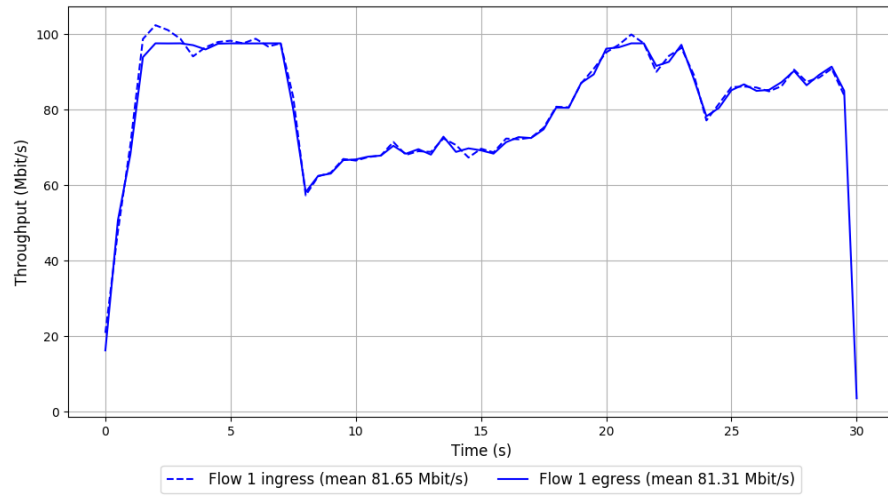


Run 2: Statistics of TCP Cubic

Start at: 2018-02-20 02:31:08
End at: 2018-02-20 02:31:38
Local clock offset: -4.185 ms
Remote clock offset: -2.054 ms

Below is generated by plot.py at 2018-02-20 06:49:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 81.31 Mbit/s
95th percentile per-packet one-way delay: 48.434 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 81.31 Mbit/s
95th percentile per-packet one-way delay: 48.434 ms
Loss rate: 0.42%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-20 03:02:27

End at: 2018-02-20 03:02:57

Local clock offset: 0.448 ms

Remote clock offset: 0.064 ms

Below is generated by plot.py at 2018-02-20 06:49:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.75 Mbit/s

95th percentile per-packet one-way delay: 58.427 ms

Loss rate: 0.38%

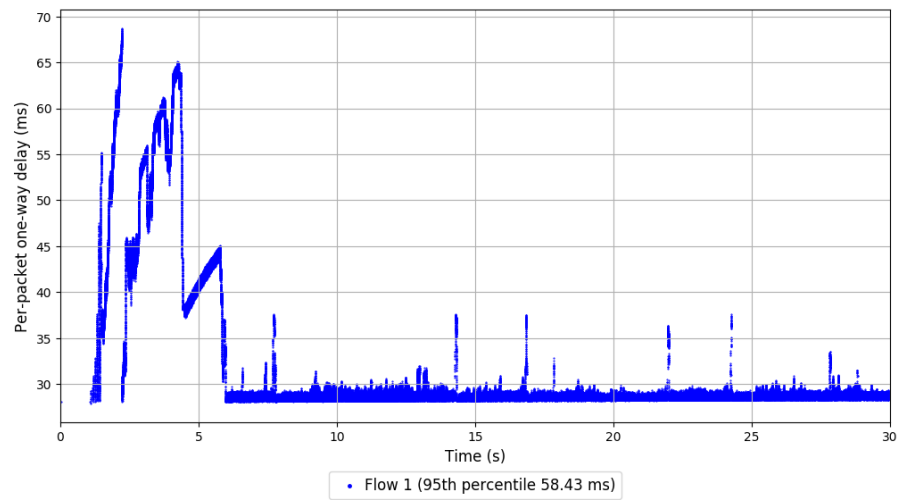
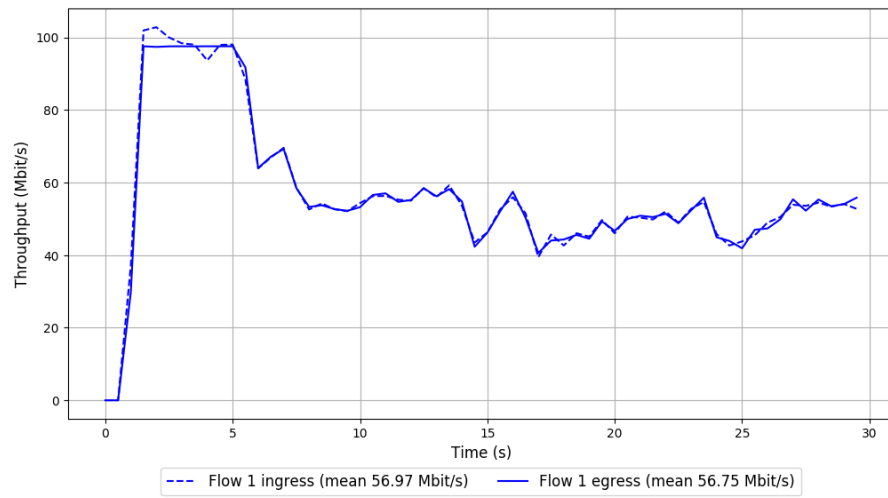
-- Flow 1:

Average throughput: 56.75 Mbit/s

95th percentile per-packet one-way delay: 58.427 ms

Loss rate: 0.38%

Run 3: Report of TCP Cubic — Data Link

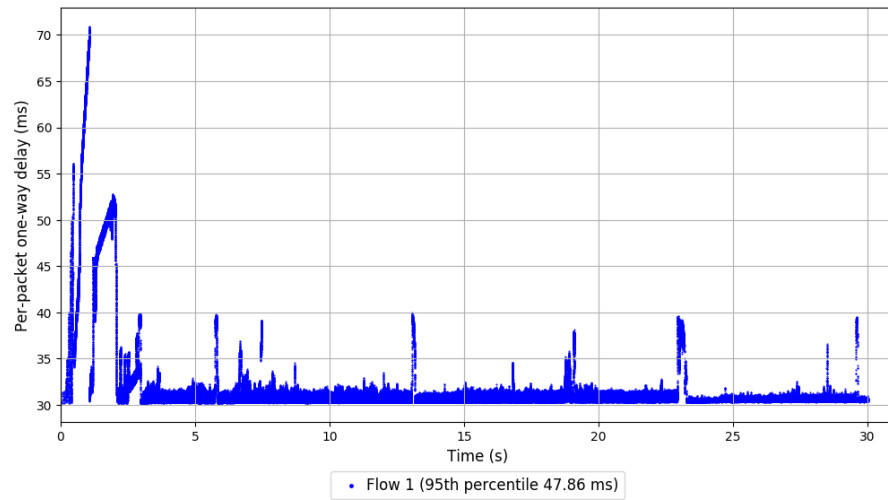
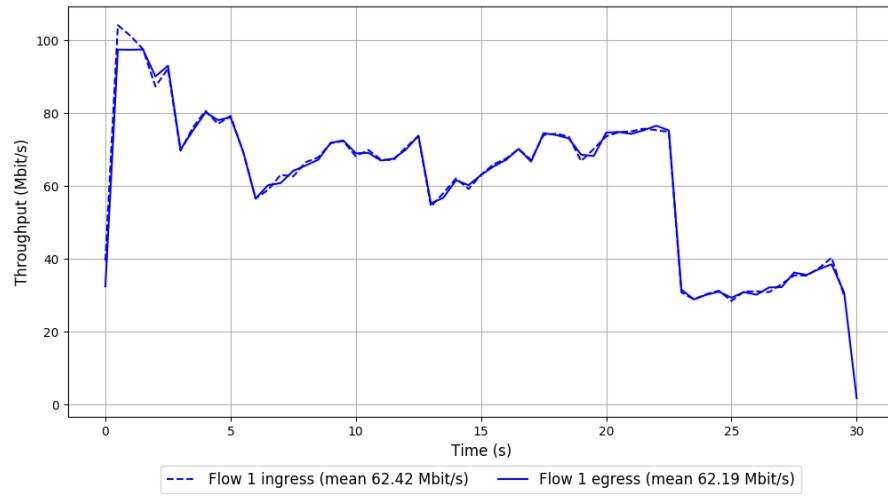


Run 4: Statistics of TCP Cubic

Start at: 2018-02-20 03:30:53
End at: 2018-02-20 03:31:23
Local clock offset: 7.426 ms
Remote clock offset: -9.376 ms

Below is generated by plot.py at 2018-02-20 06:49:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 62.19 Mbit/s
95th percentile per-packet one-way delay: 47.856 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 62.19 Mbit/s
95th percentile per-packet one-way delay: 47.856 ms
Loss rate: 0.37%

Run 4: Report of TCP Cubic — Data Link

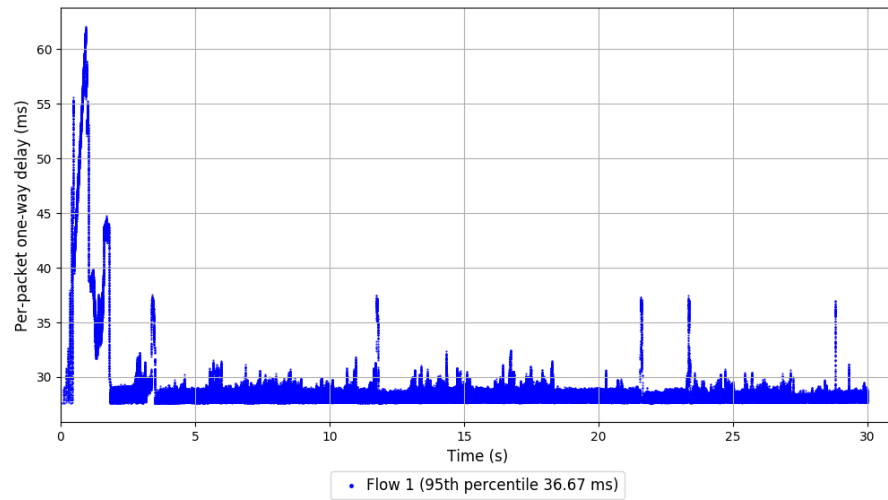
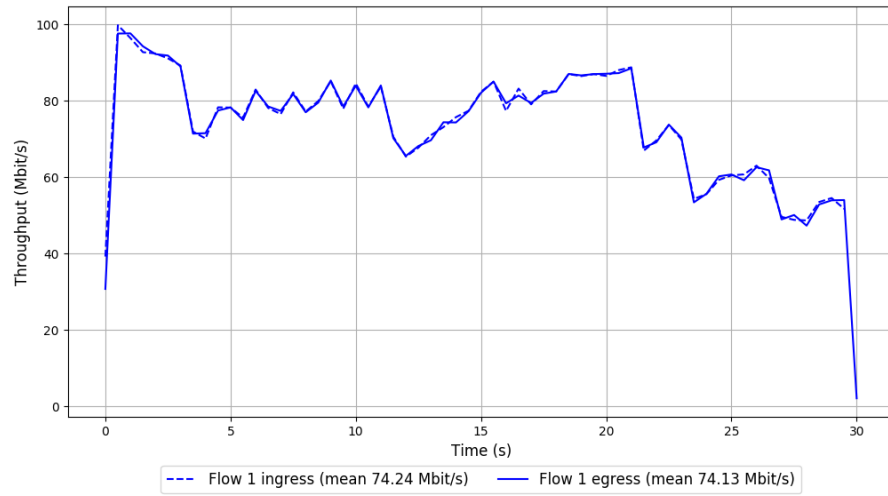


Run 5: Statistics of TCP Cubic

Start at: 2018-02-20 03:59:30
End at: 2018-02-20 04:00:00
Local clock offset: 1.837 ms
Remote clock offset: -13.801 ms

Below is generated by plot.py at 2018-02-20 06:49:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 74.13 Mbit/s
95th percentile per-packet one-way delay: 36.670 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 74.13 Mbit/s
95th percentile per-packet one-way delay: 36.670 ms
Loss rate: 0.14%

Run 5: Report of TCP Cubic — Data Link

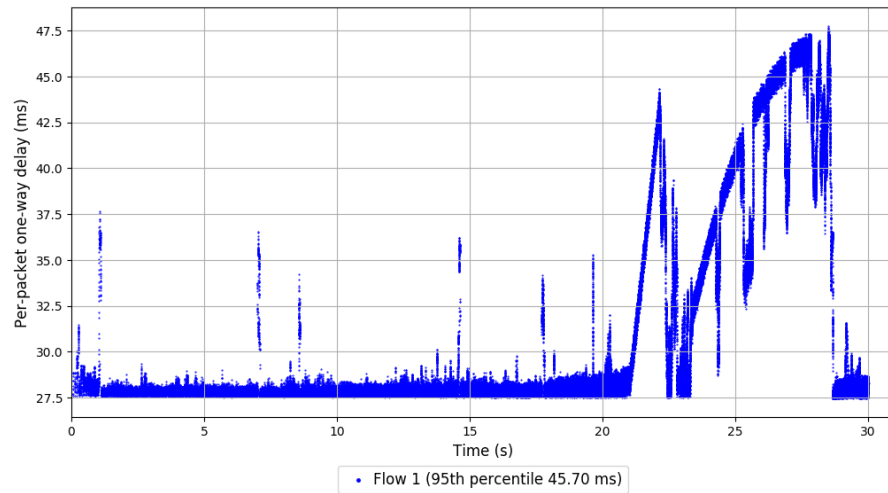
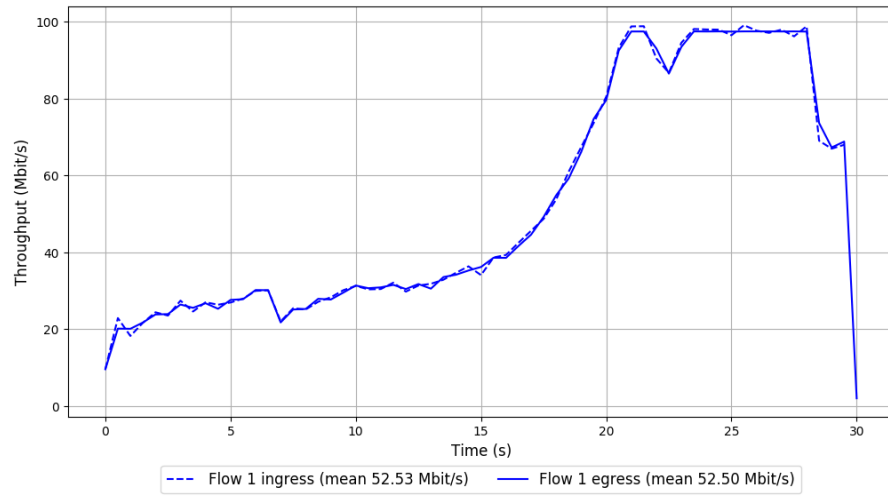


Run 6: Statistics of TCP Cubic

Start at: 2018-02-20 04:29:09
End at: 2018-02-20 04:29:39
Local clock offset: -5.236 ms
Remote clock offset: -9.579 ms

Below is generated by plot.py at 2018-02-20 06:49:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 52.50 Mbit/s
95th percentile per-packet one-way delay: 45.705 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 52.50 Mbit/s
95th percentile per-packet one-way delay: 45.705 ms
Loss rate: 0.07%

Run 6: Report of TCP Cubic — Data Link

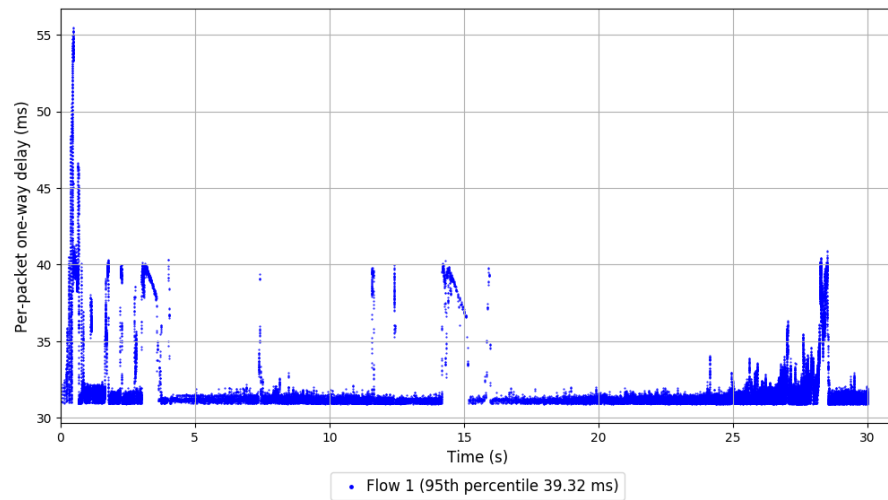
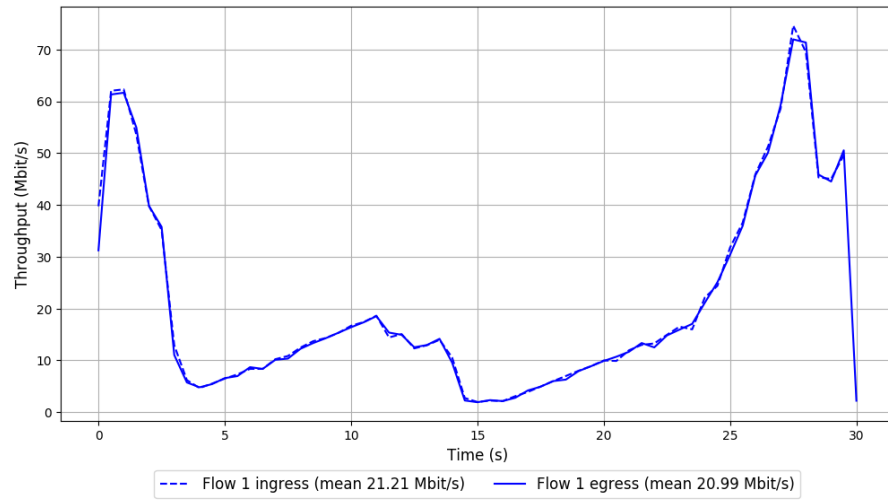


Run 7: Statistics of TCP Cubic

Start at: 2018-02-20 04:56:15
End at: 2018-02-20 04:56:45
Local clock offset: -0.531 ms
Remote clock offset: -3.073 ms

Below is generated by plot.py at 2018-02-20 06:49:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.99 Mbit/s
95th percentile per-packet one-way delay: 39.317 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 20.99 Mbit/s
95th percentile per-packet one-way delay: 39.317 ms
Loss rate: 1.02%

Run 7: Report of TCP Cubic — Data Link

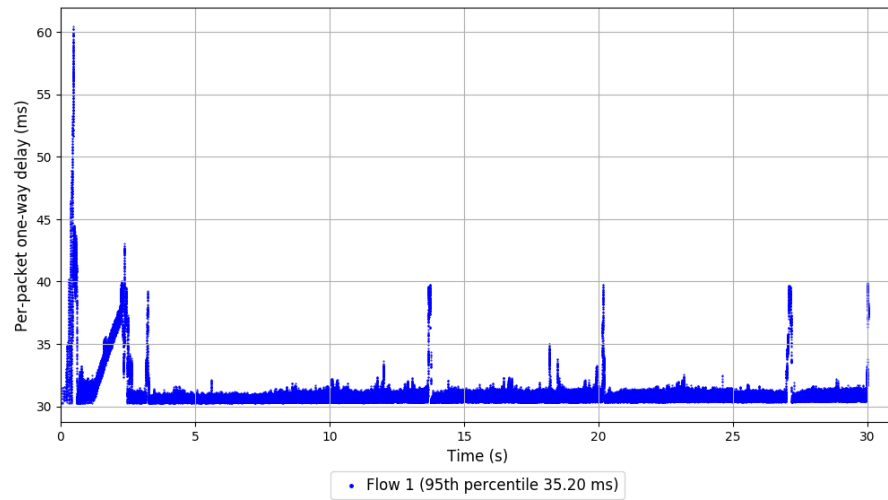
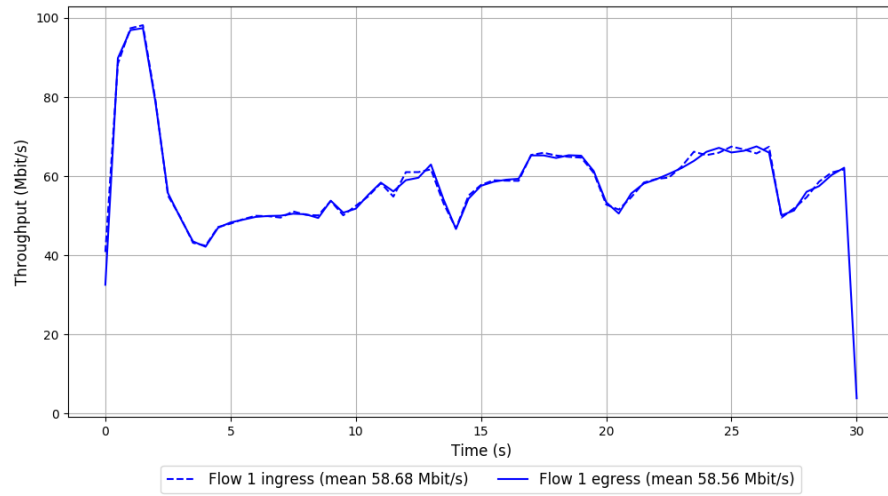


Run 8: Statistics of TCP Cubic

Start at: 2018-02-20 05:25:25
End at: 2018-02-20 05:25:55
Local clock offset: 0.341 ms
Remote clock offset: -1.264 ms

Below is generated by plot.py at 2018-02-20 06:49:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 58.56 Mbit/s
95th percentile per-packet one-way delay: 35.204 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 58.56 Mbit/s
95th percentile per-packet one-way delay: 35.204 ms
Loss rate: 0.18%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-20 05:51:04

End at: 2018-02-20 05:51:34

Local clock offset: 0.935 ms

Remote clock offset: -2.26 ms

Below is generated by plot.py at 2018-02-20 06:50:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.14 Mbit/s

95th percentile per-packet one-way delay: 56.520 ms

Loss rate: 0.24%

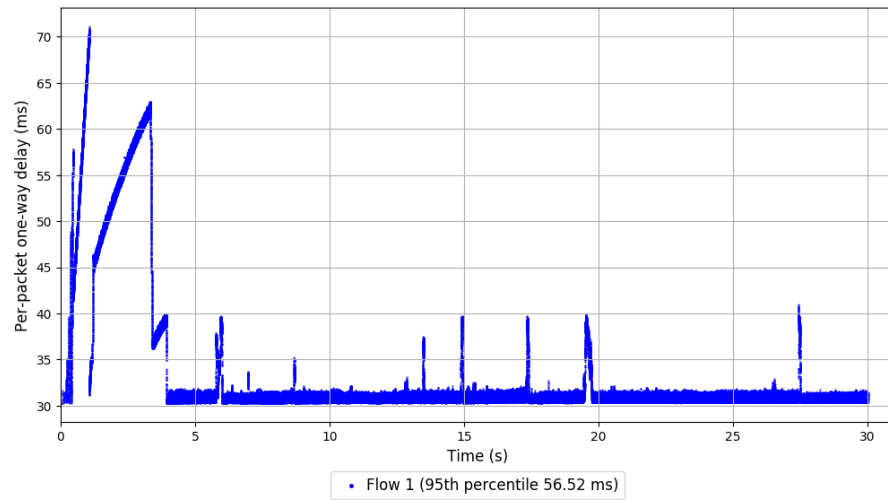
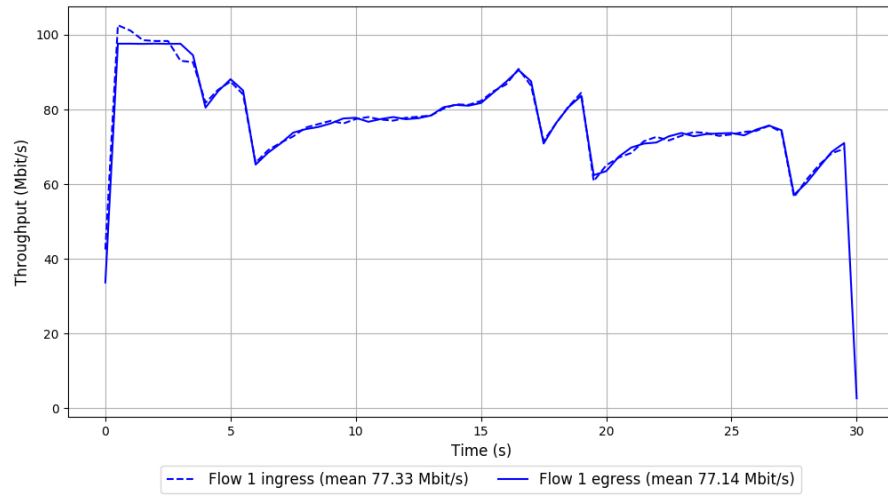
-- Flow 1:

Average throughput: 77.14 Mbit/s

95th percentile per-packet one-way delay: 56.520 ms

Loss rate: 0.24%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-20 06:17:24

End at: 2018-02-20 06:17:54

Local clock offset: 3.504 ms

Remote clock offset: -3.708 ms

Below is generated by plot.py at 2018-02-20 06:50:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.11 Mbit/s

95th percentile per-packet one-way delay: 62.626 ms

Loss rate: 0.49%

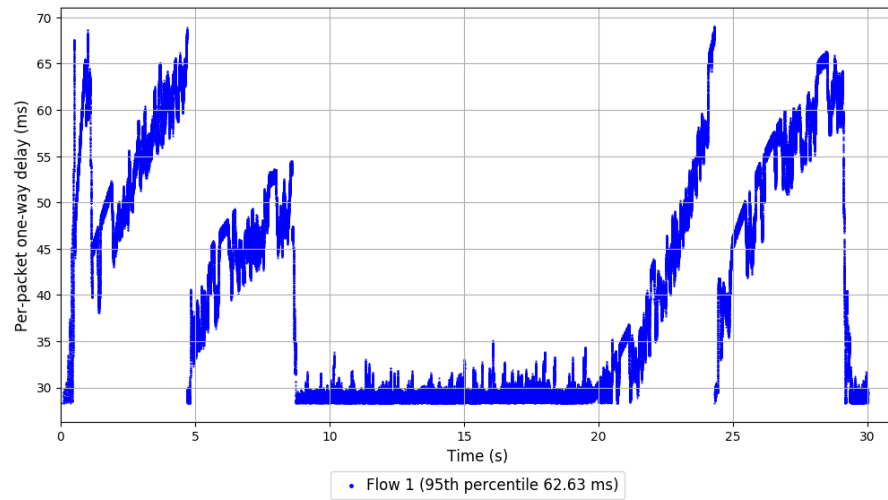
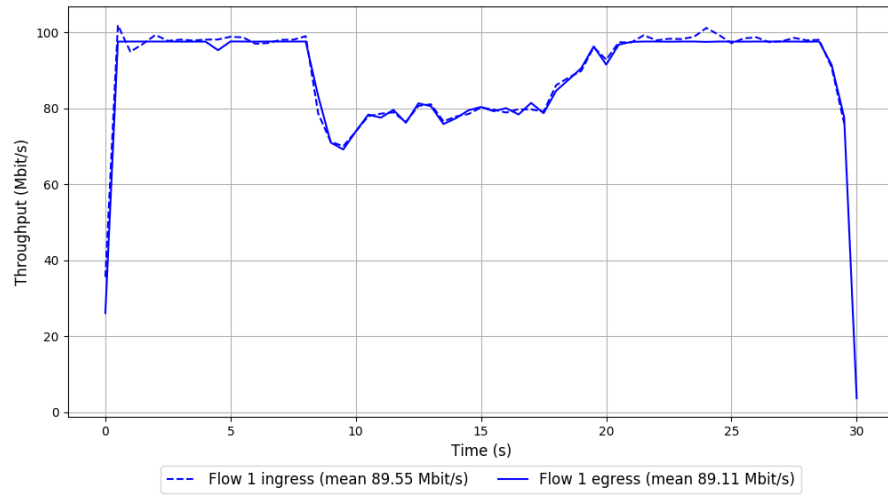
-- Flow 1:

Average throughput: 89.11 Mbit/s

95th percentile per-packet one-way delay: 62.626 ms

Loss rate: 0.49%

Run 10: Report of TCP Cubic — Data Link

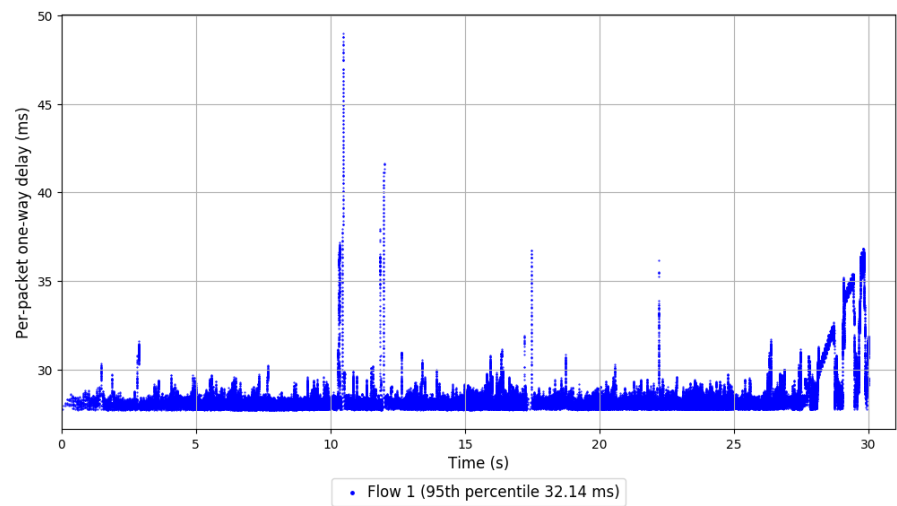
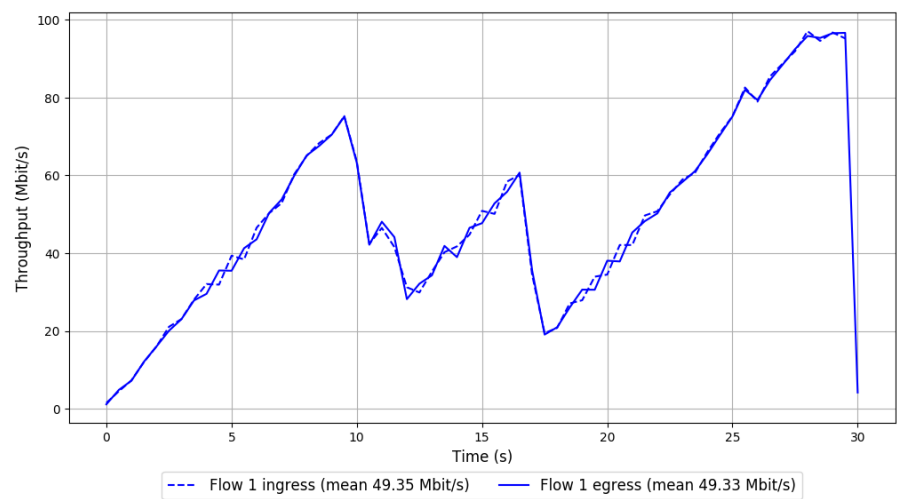


Run 1: Statistics of LEDBAT

Start at: 2018-02-20 01:57:59
End at: 2018-02-20 01:58:29
Local clock offset: -4.851 ms
Remote clock offset: -4.291 ms

Below is generated by plot.py at 2018-02-20 06:50:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 49.33 Mbit/s
95th percentile per-packet one-way delay: 32.143 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 49.33 Mbit/s
95th percentile per-packet one-way delay: 32.143 ms
Loss rate: 0.04%

Run 1: Report of LEDBAT — Data Link

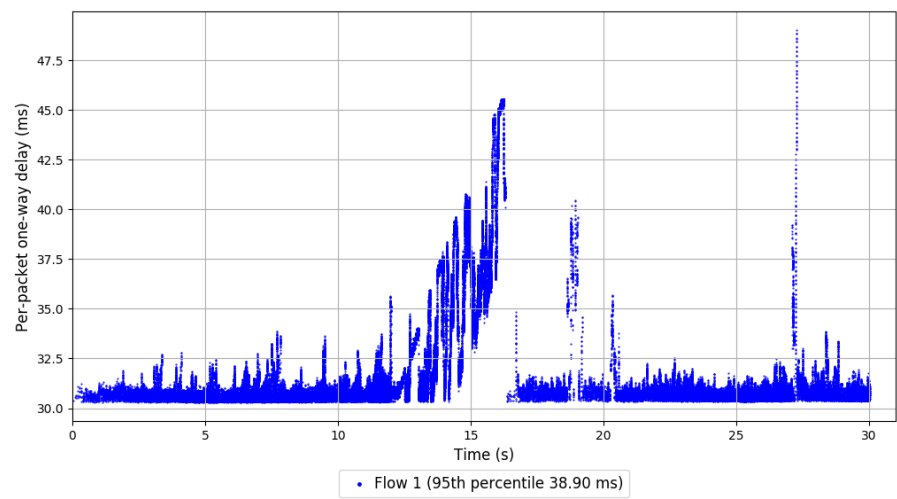
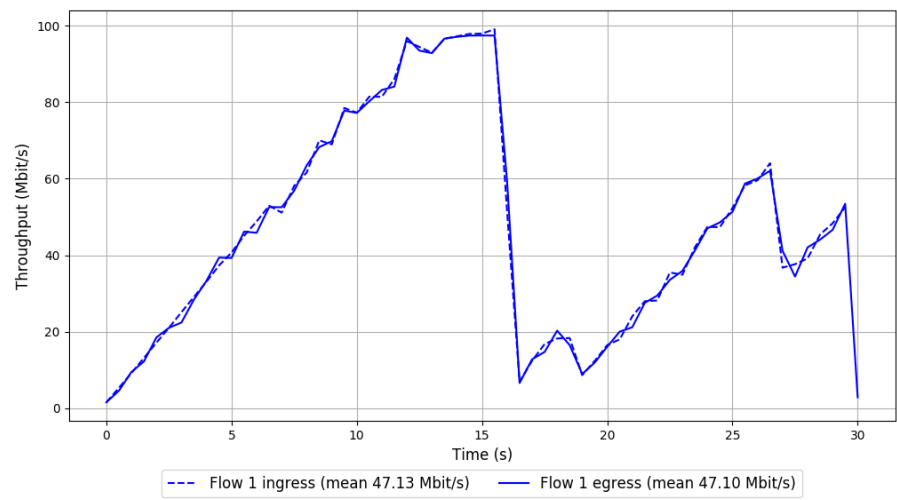


Run 2: Statistics of LEDBAT

Start at: 2018-02-20 02:27:22
End at: 2018-02-20 02:27:52
Local clock offset: -4.651 ms
Remote clock offset: -2.249 ms

Below is generated by plot.py at 2018-02-20 06:50:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 47.10 Mbit/s
95th percentile per-packet one-way delay: 38.900 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 47.10 Mbit/s
95th percentile per-packet one-way delay: 38.900 ms
Loss rate: 0.06%

Run 2: Report of LEDBAT — Data Link

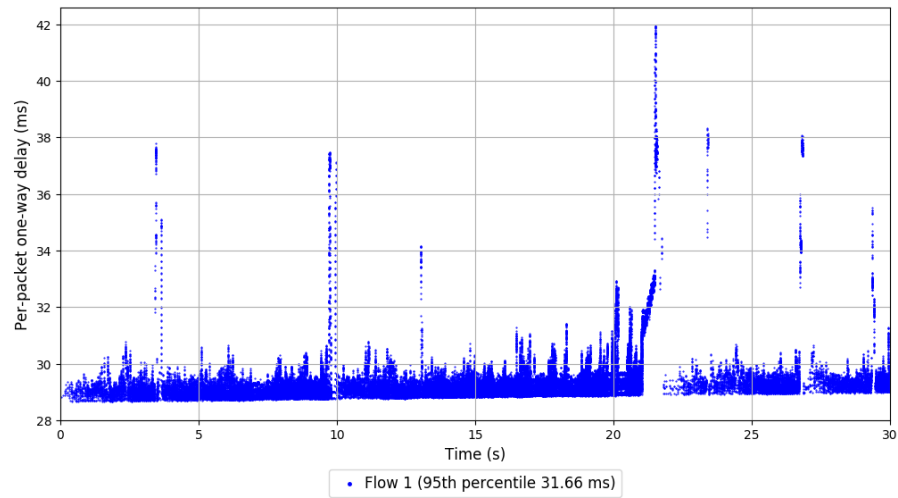
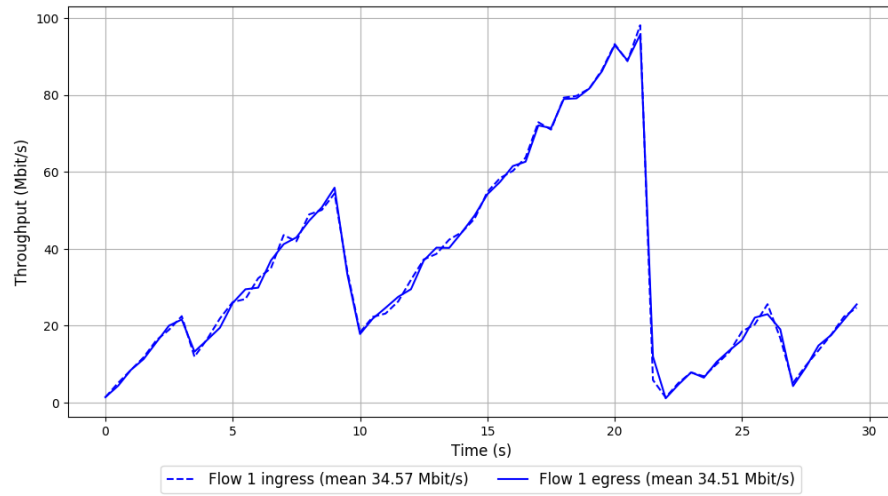


Run 3: Statistics of LEDBAT

Start at: 2018-02-20 02:59:08
End at: 2018-02-20 02:59:38
Local clock offset: -1.67 ms
Remote clock offset: -0.192 ms

Below is generated by plot.py at 2018-02-20 06:50:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 34.51 Mbit/s
95th percentile per-packet one-way delay: 31.662 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 34.51 Mbit/s
95th percentile per-packet one-way delay: 31.662 ms
Loss rate: 0.18%

Run 3: Report of LEDBAT — Data Link

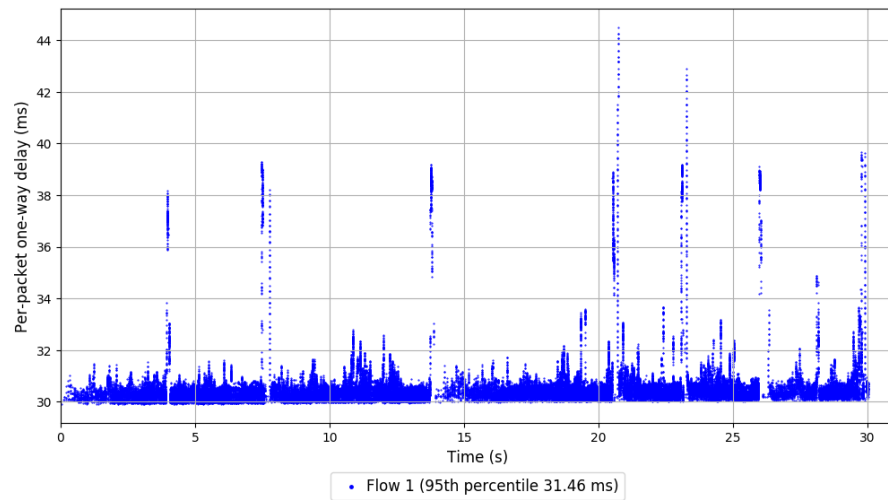
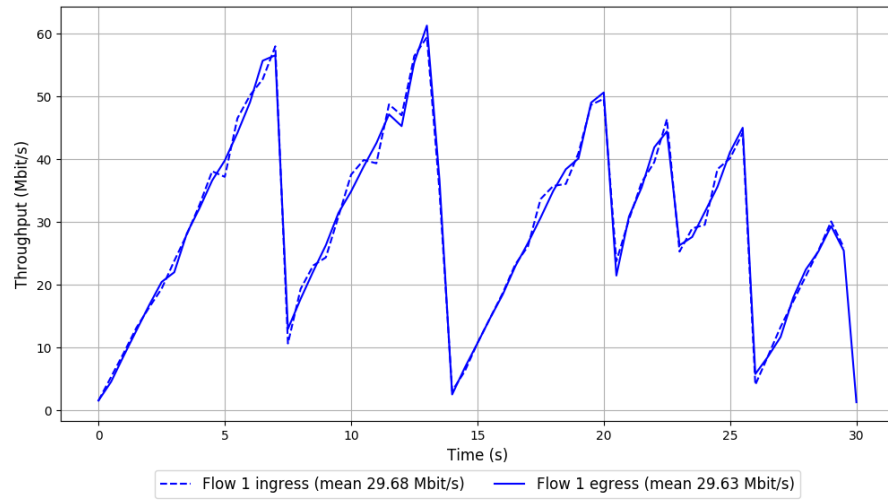


Run 4: Statistics of LEDBAT

Start at: 2018-02-20 03:27:56
End at: 2018-02-20 03:28:26
Local clock offset: 7.04 ms
Remote clock offset: -9.184 ms

Below is generated by plot.py at 2018-02-20 06:50:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 29.63 Mbit/s
95th percentile per-packet one-way delay: 31.456 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 29.63 Mbit/s
95th percentile per-packet one-way delay: 31.456 ms
Loss rate: 0.17%

Run 4: Report of LEDBAT — Data Link

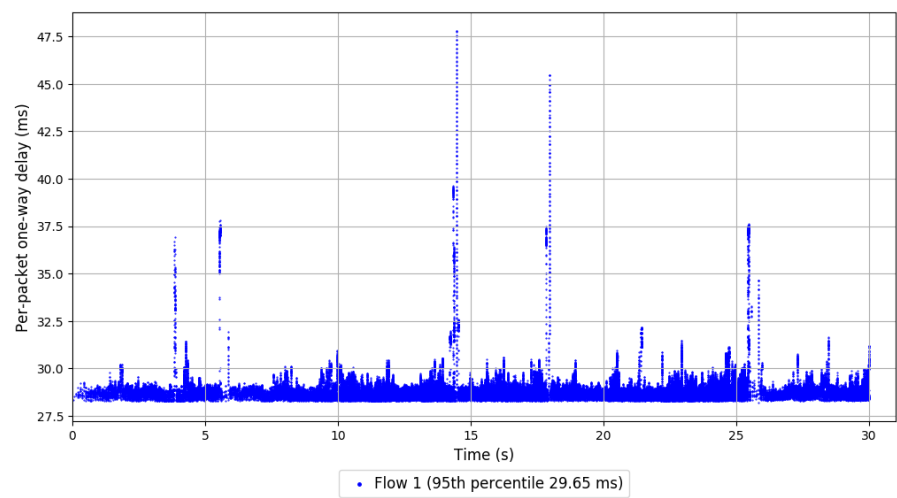
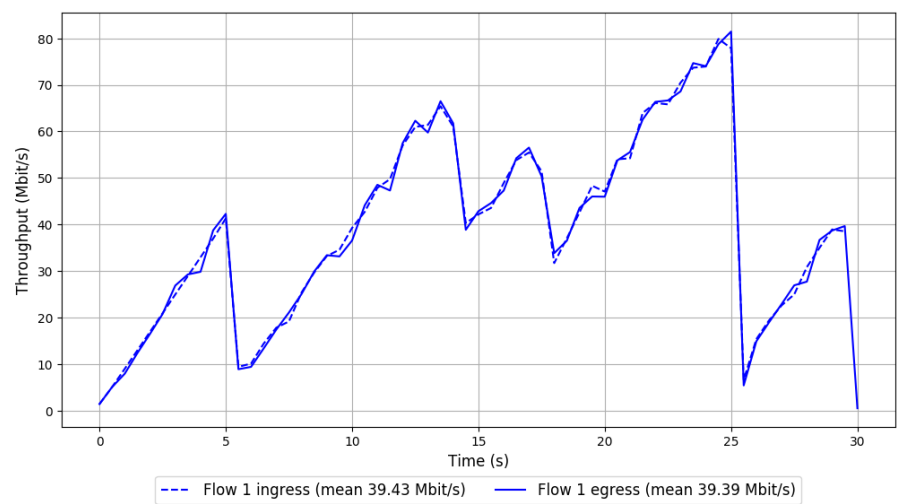


Run 5: Statistics of LEDBAT

Start at: 2018-02-20 03:56:16
End at: 2018-02-20 03:56:46
Local clock offset: 1.889 ms
Remote clock offset: -13.529 ms

Below is generated by plot.py at 2018-02-20 06:50:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 39.39 Mbit/s
95th percentile per-packet one-way delay: 29.646 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 39.39 Mbit/s
95th percentile per-packet one-way delay: 29.646 ms
Loss rate: 0.12%

Run 5: Report of LEDBAT — Data Link

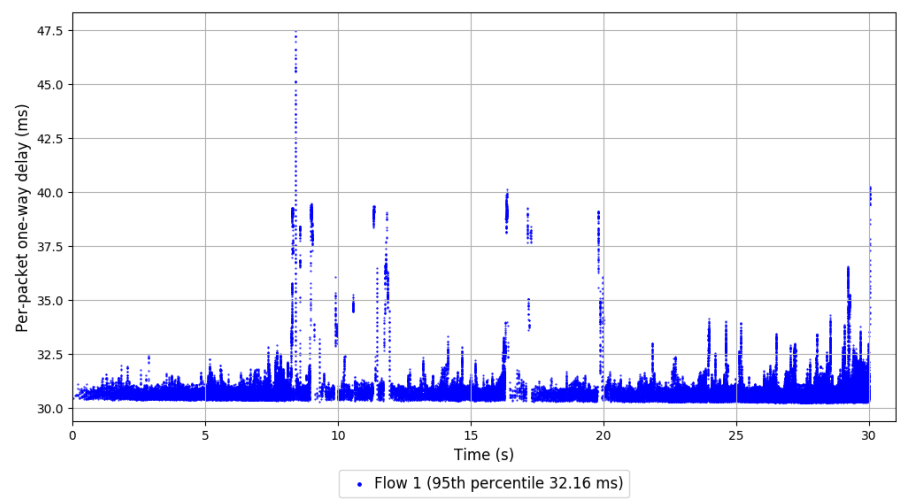
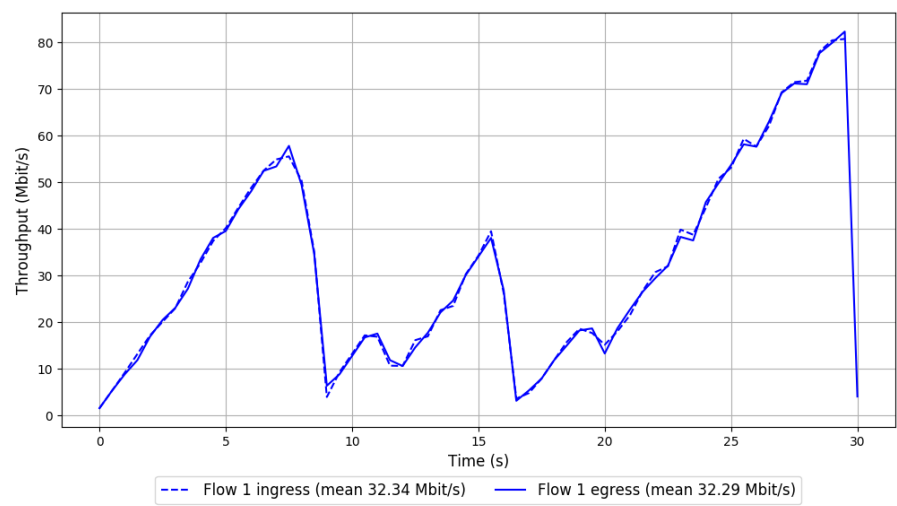


Run 6: Statistics of LEDBAT

Start at: 2018-02-20 04:25:48
End at: 2018-02-20 04:26:18
Local clock offset: -4.842 ms
Remote clock offset: -7.918 ms

Below is generated by plot.py at 2018-02-20 06:50:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 32.29 Mbit/s
95th percentile per-packet one-way delay: 32.159 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 32.29 Mbit/s
95th percentile per-packet one-way delay: 32.159 ms
Loss rate: 0.12%

Run 6: Report of LEDBAT — Data Link

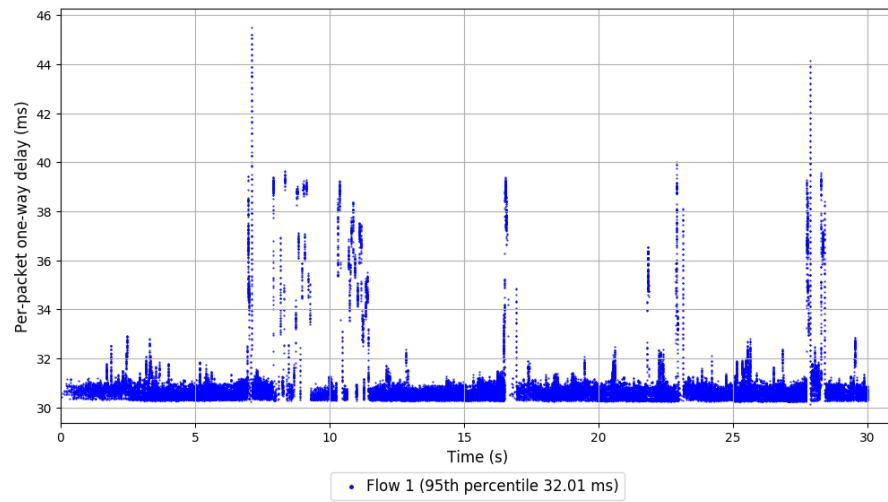
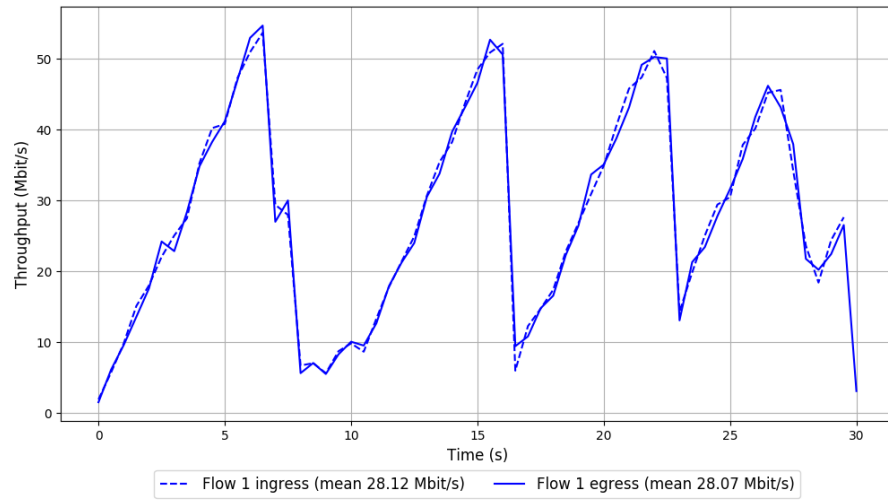


Run 7: Statistics of LEDBAT

Start at: 2018-02-20 04:53:21
End at: 2018-02-20 04:53:51
Local clock offset: -0.992 ms
Remote clock offset: -3.773 ms

Below is generated by plot.py at 2018-02-20 06:50:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 28.07 Mbit/s
95th percentile per-packet one-way delay: 32.014 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 28.07 Mbit/s
95th percentile per-packet one-way delay: 32.014 ms
Loss rate: 0.18%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-20 05:21:46

End at: 2018-02-20 05:22:16

Local clock offset: 0.295 ms

Remote clock offset: 0.256 ms

Below is generated by plot.py at 2018-02-20 06:50:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.09 Mbit/s

95th percentile per-packet one-way delay: 45.951 ms

Loss rate: 0.02%

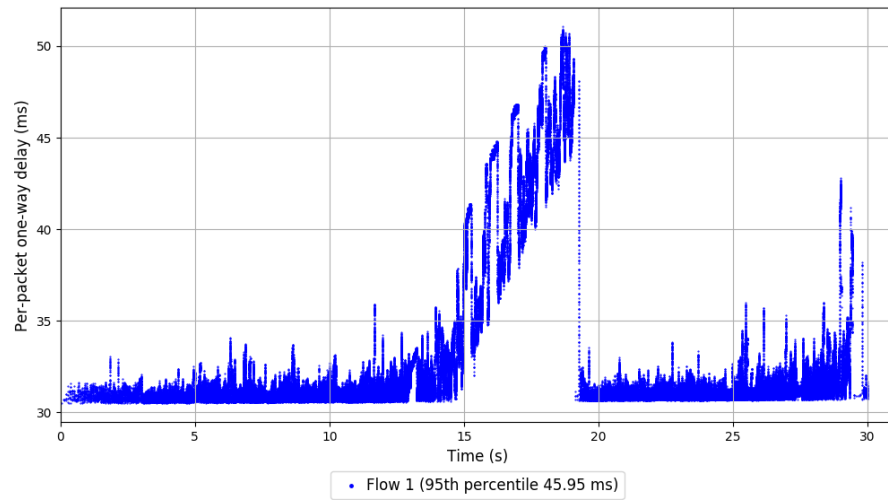
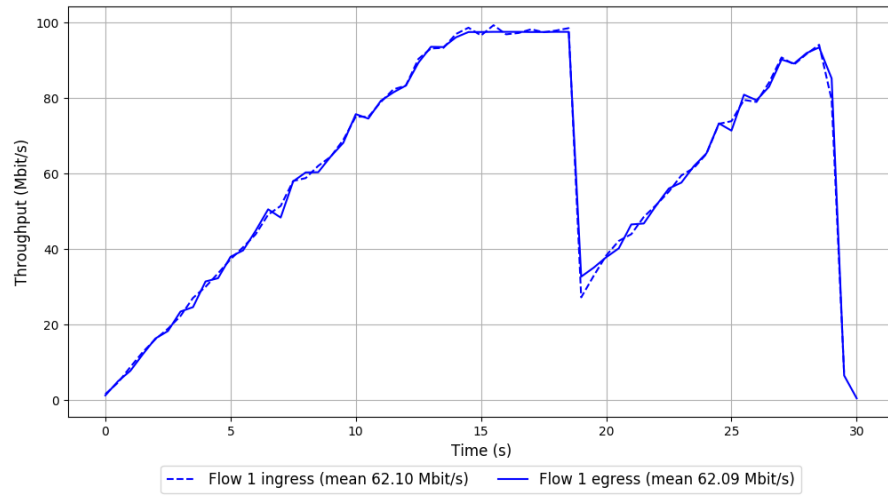
-- Flow 1:

Average throughput: 62.09 Mbit/s

95th percentile per-packet one-way delay: 45.951 ms

Loss rate: 0.02%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-20 05:48:23

End at: 2018-02-20 05:48:53

Local clock offset: 0.273 ms

Remote clock offset: -2.84 ms

Below is generated by plot.py at 2018-02-20 06:50:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.59 Mbit/s

95th percentile per-packet one-way delay: 32.499 ms

Loss rate: 0.17%

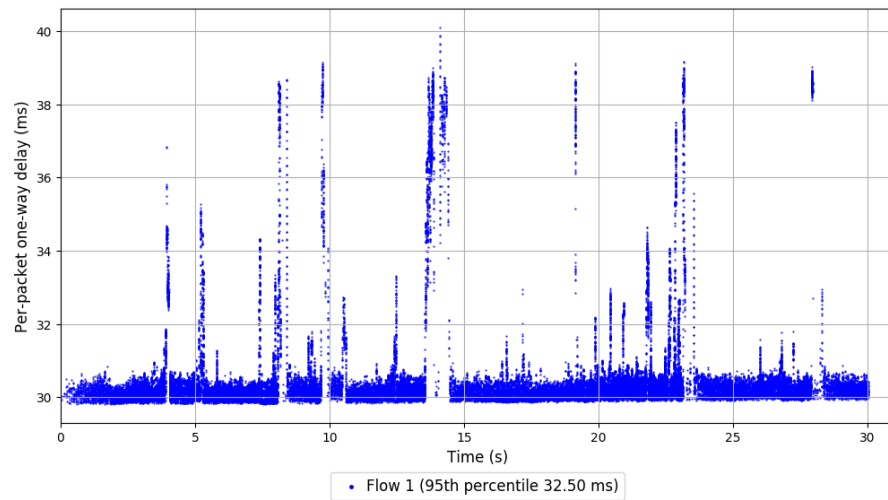
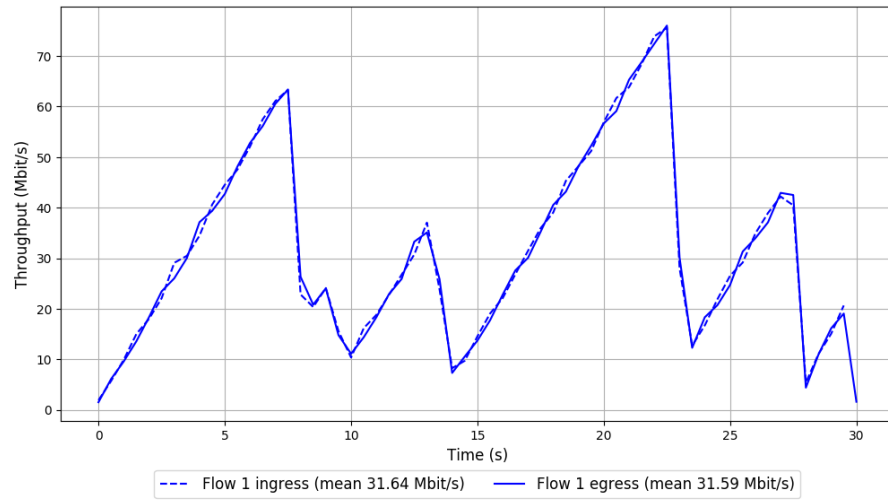
-- Flow 1:

Average throughput: 31.59 Mbit/s

95th percentile per-packet one-way delay: 32.499 ms

Loss rate: 0.17%

Run 9: Report of LEDBAT — Data Link

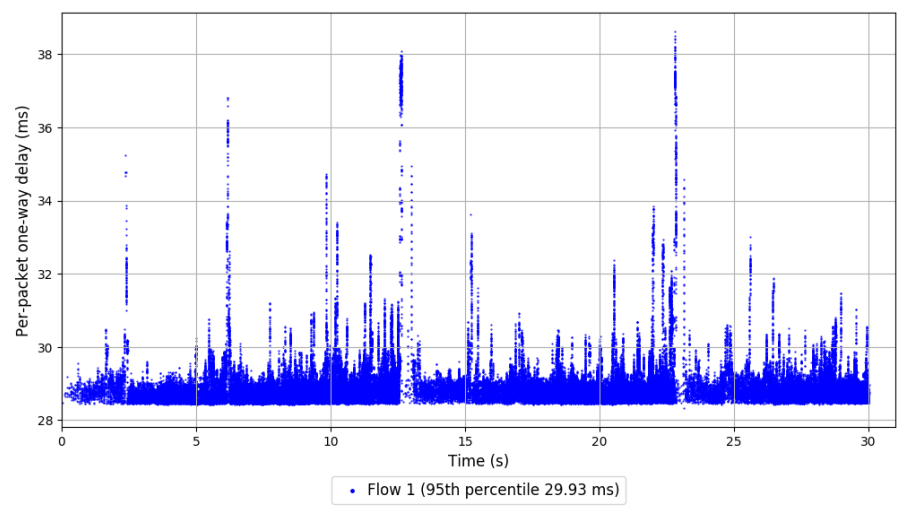
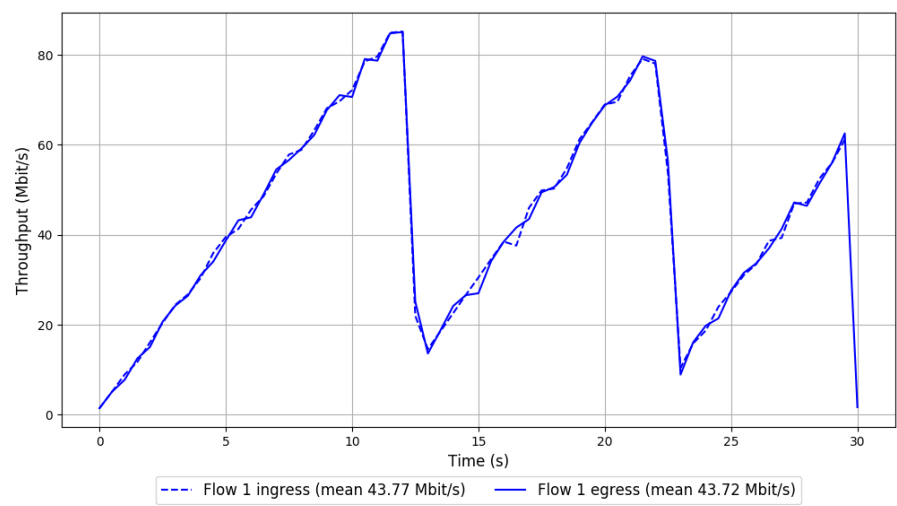


Run 10: Statistics of LEDBAT

Start at: 2018-02-20 06:14:15
End at: 2018-02-20 06:14:45
Local clock offset: 3.286 ms
Remote clock offset: -3.758 ms

Below is generated by plot.py at 2018-02-20 06:50:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 43.72 Mbit/s
95th percentile per-packet one-way delay: 29.928 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 43.72 Mbit/s
95th percentile per-packet one-way delay: 29.928 ms
Loss rate: 0.10%

Run 10: Report of LEDBAT — Data Link

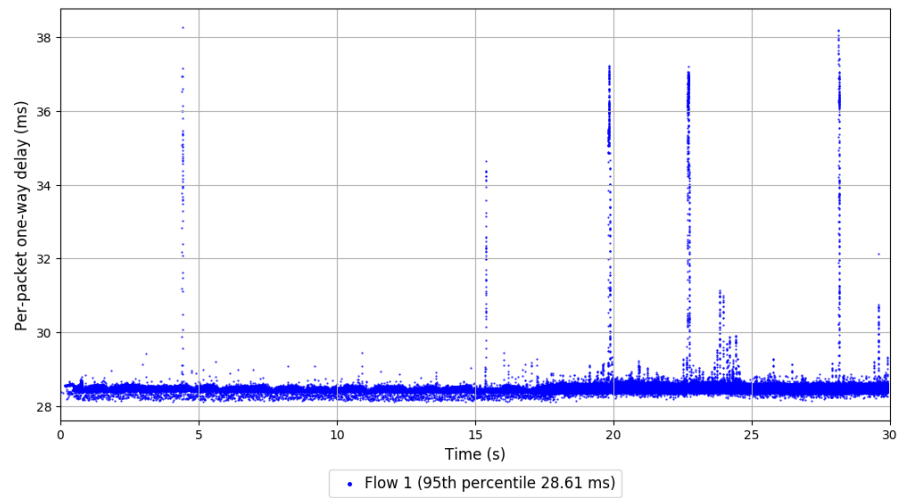
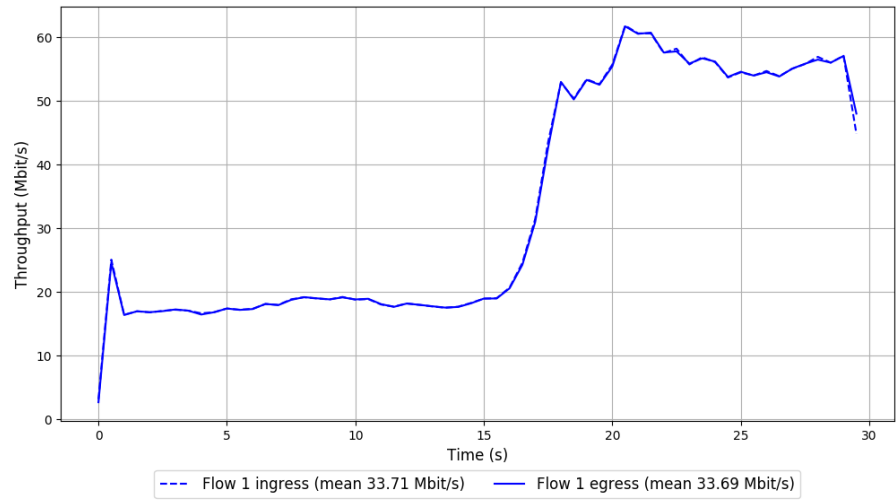


Run 1: Statistics of PCC

Start at: 2018-02-20 01:45:33
End at: 2018-02-20 01:46:03
Local clock offset: -4.333 ms
Remote clock offset: -4.325 ms

Below is generated by plot.py at 2018-02-20 06:50:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 33.69 Mbit/s
95th percentile per-packet one-way delay: 28.607 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 33.69 Mbit/s
95th percentile per-packet one-way delay: 28.607 ms
Loss rate: 0.06%

Run 1: Report of PCC — Data Link

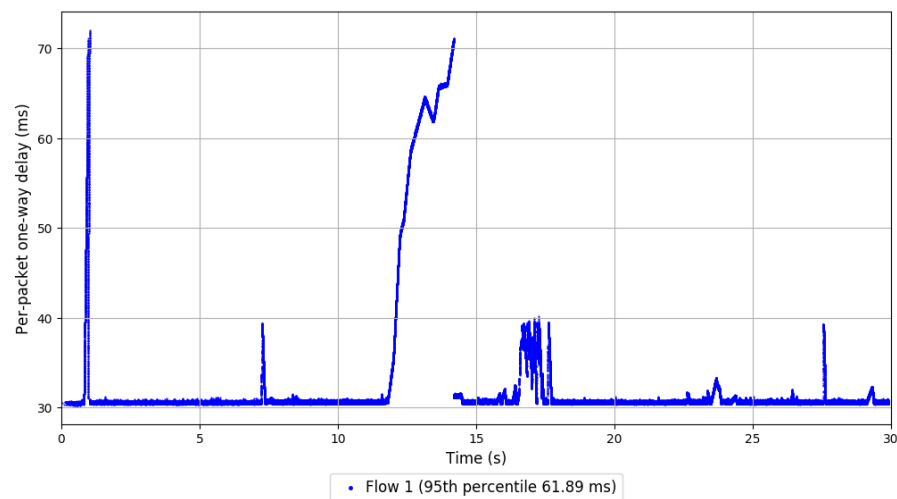
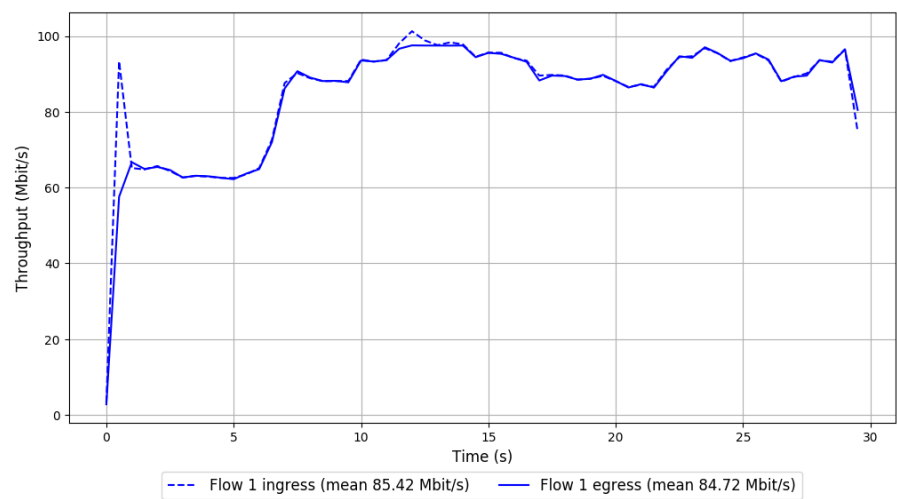


Run 2: Statistics of PCC

Start at: 2018-02-20 02:14:44
End at: 2018-02-20 02:15:14
Local clock offset: -5.276 ms
Remote clock offset: -3.041 ms

Below is generated by plot.py at 2018-02-20 06:51:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.72 Mbit/s
95th percentile per-packet one-way delay: 61.891 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 84.72 Mbit/s
95th percentile per-packet one-way delay: 61.891 ms
Loss rate: 0.82%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-20 02:46:13

End at: 2018-02-20 02:46:43

Local clock offset: -3.091 ms

Remote clock offset: 0.699 ms

Below is generated by plot.py at 2018-02-20 06:51:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.42 Mbit/s

95th percentile per-packet one-way delay: 38.138 ms

Loss rate: 1.02%

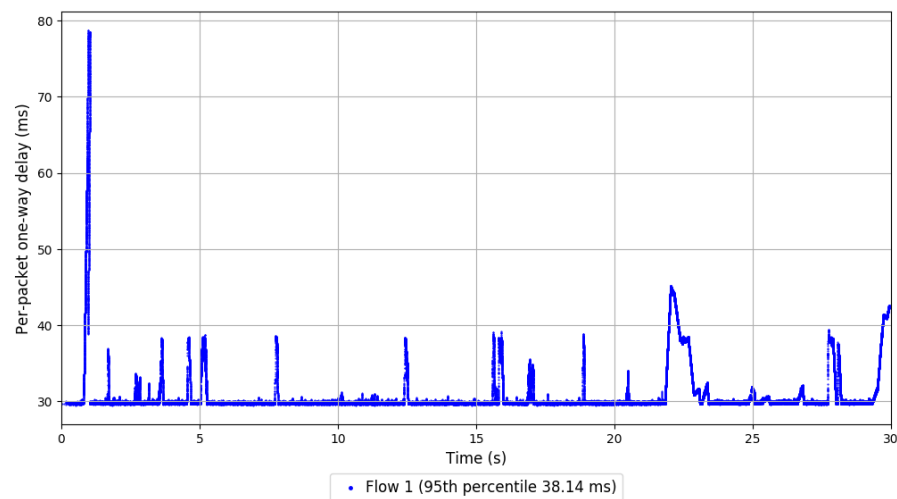
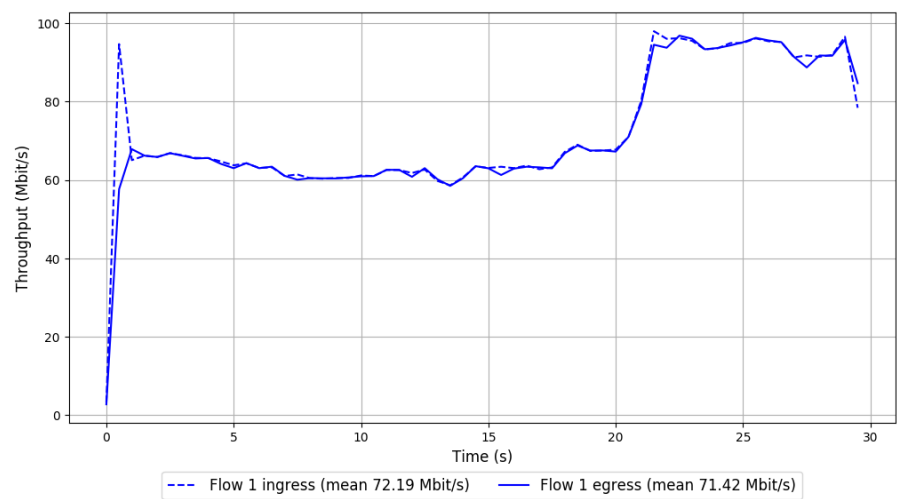
-- Flow 1:

Average throughput: 71.42 Mbit/s

95th percentile per-packet one-way delay: 38.138 ms

Loss rate: 1.02%

Run 3: Report of PCC — Data Link

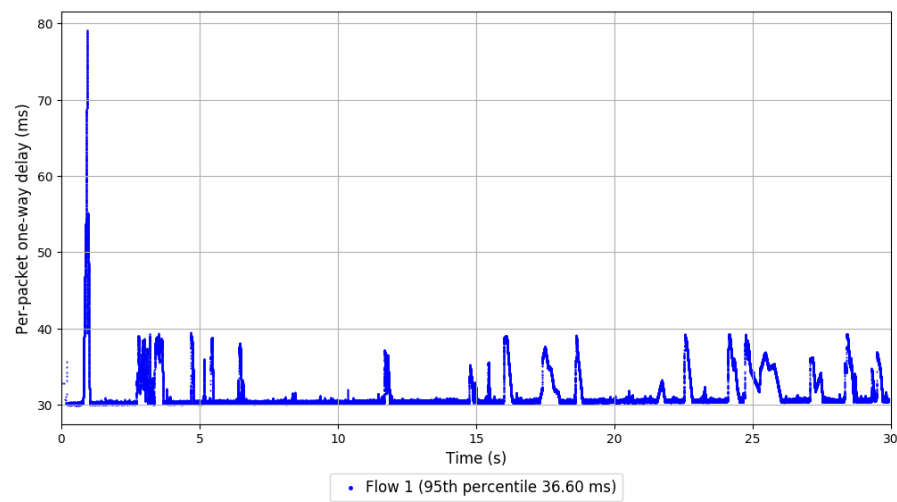
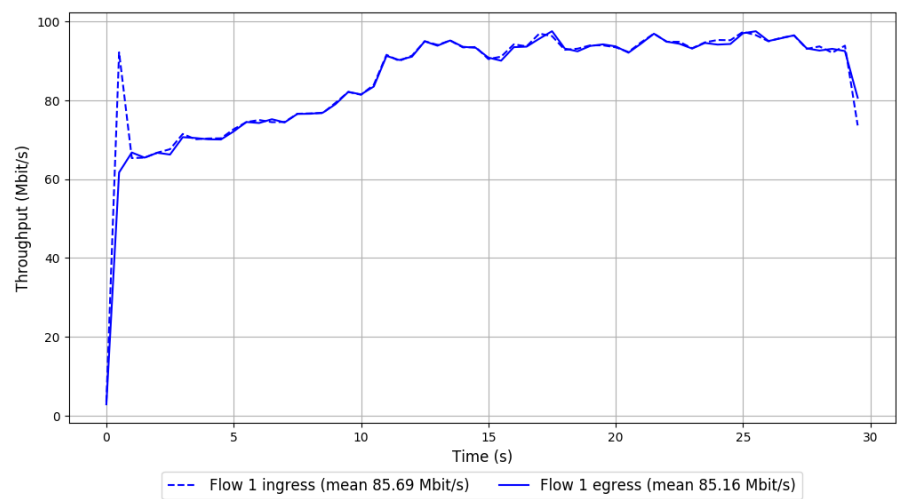


Run 4: Statistics of PCC

Start at: 2018-02-20 03:15:24
End at: 2018-02-20 03:15:54
Local clock offset: 4.884 ms
Remote clock offset: -5.986 ms

Below is generated by plot.py at 2018-02-20 06:51:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 85.16 Mbit/s
95th percentile per-packet one-way delay: 36.601 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 85.16 Mbit/s
95th percentile per-packet one-way delay: 36.601 ms
Loss rate: 0.63%

Run 4: Report of PCC — Data Link

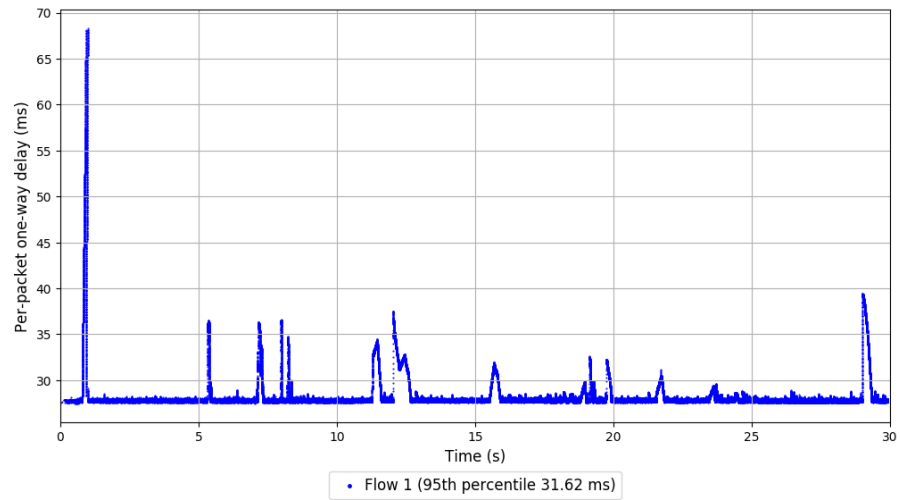
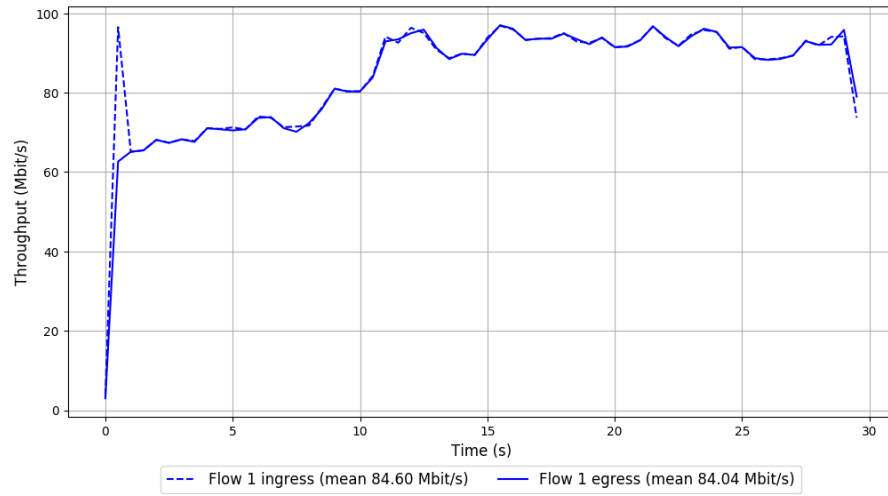


Run 5: Statistics of PCC

Start at: 2018-02-20 03:43:52
End at: 2018-02-20 03:44:22
Local clock offset: 2.924 ms
Remote clock offset: -12.654 ms

Below is generated by plot.py at 2018-02-20 06:51:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.04 Mbit/s
95th percentile per-packet one-way delay: 31.624 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 84.04 Mbit/s
95th percentile per-packet one-way delay: 31.624 ms
Loss rate: 0.66%

Run 5: Report of PCC — Data Link

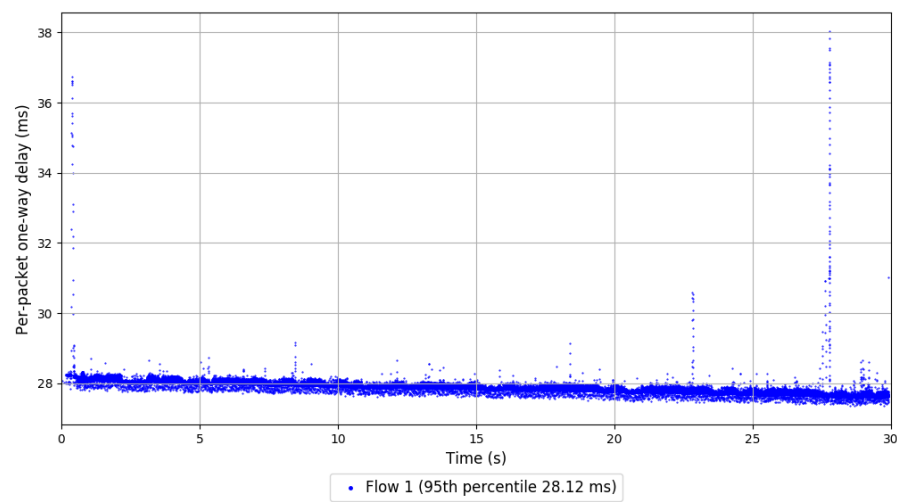
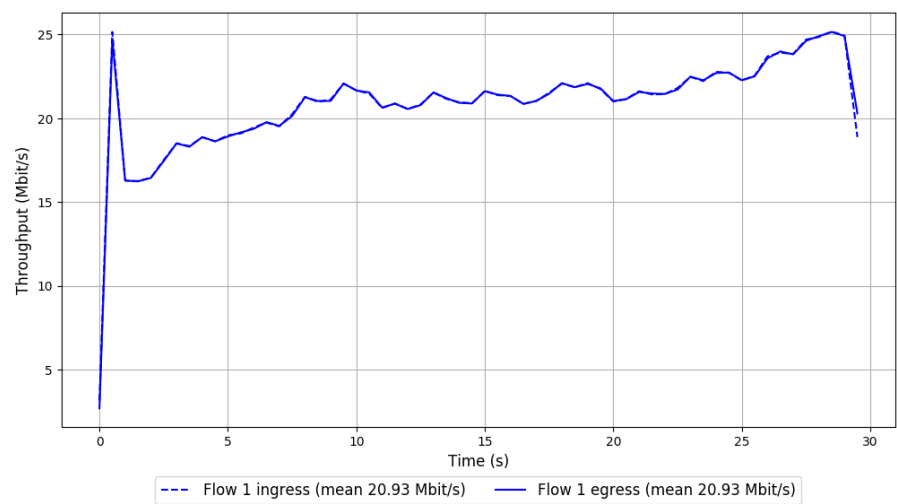


Run 6: Statistics of PCC

Start at: 2018-02-20 04:12:54
End at: 2018-02-20 04:13:24
Local clock offset: -1.784 ms
Remote clock offset: -14.427 ms

Below is generated by plot.py at 2018-02-20 06:51:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.93 Mbit/s
95th percentile per-packet one-way delay: 28.119 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.93 Mbit/s
95th percentile per-packet one-way delay: 28.119 ms
Loss rate: 0.00%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-20 04:41:28

End at: 2018-02-20 04:41:58

Local clock offset: -5.549 ms

Remote clock offset: -9.03 ms

Below is generated by plot.py at 2018-02-20 06:51:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.31 Mbit/s

95th percentile per-packet one-way delay: 29.149 ms

Loss rate: 0.01%

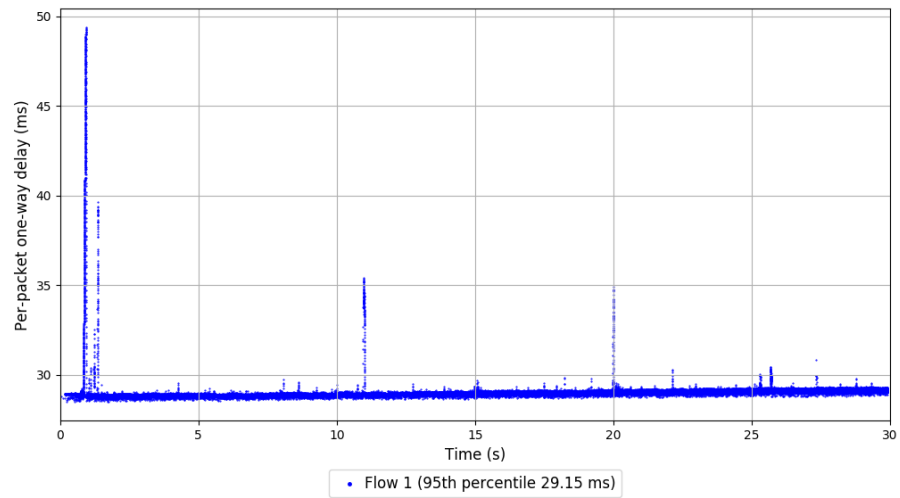
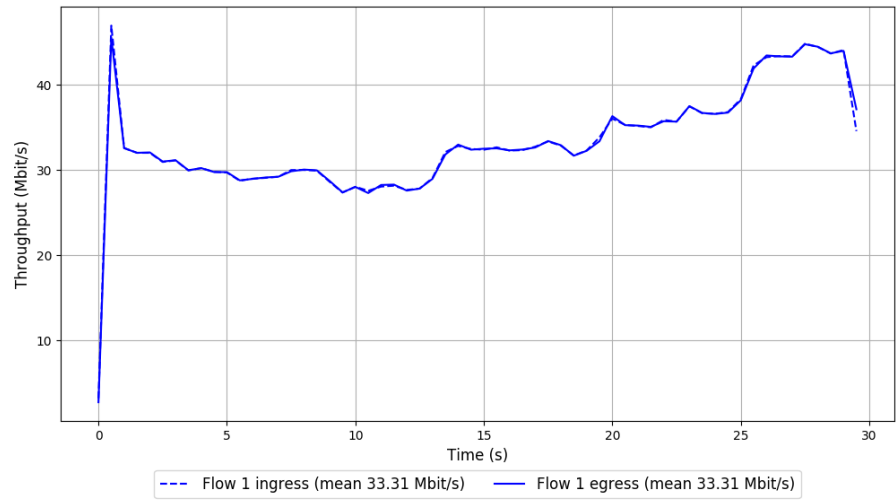
-- Flow 1:

Average throughput: 33.31 Mbit/s

95th percentile per-packet one-way delay: 29.149 ms

Loss rate: 0.01%

Run 7: Report of PCC — Data Link

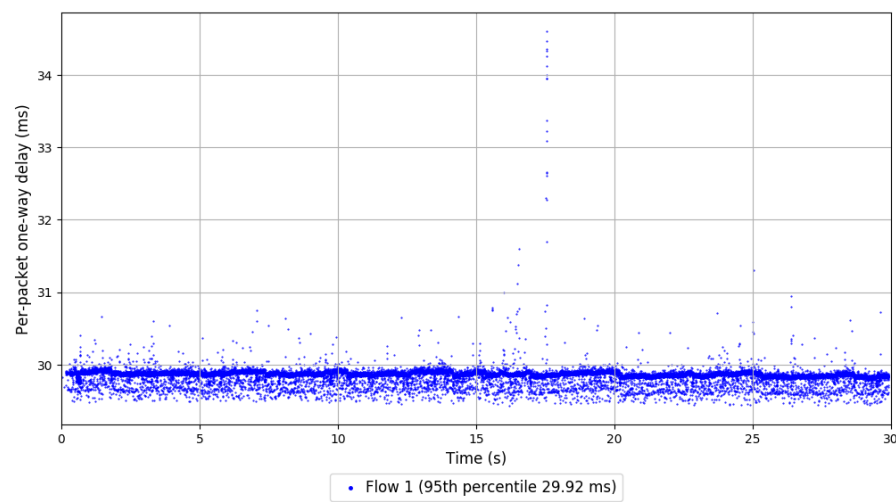
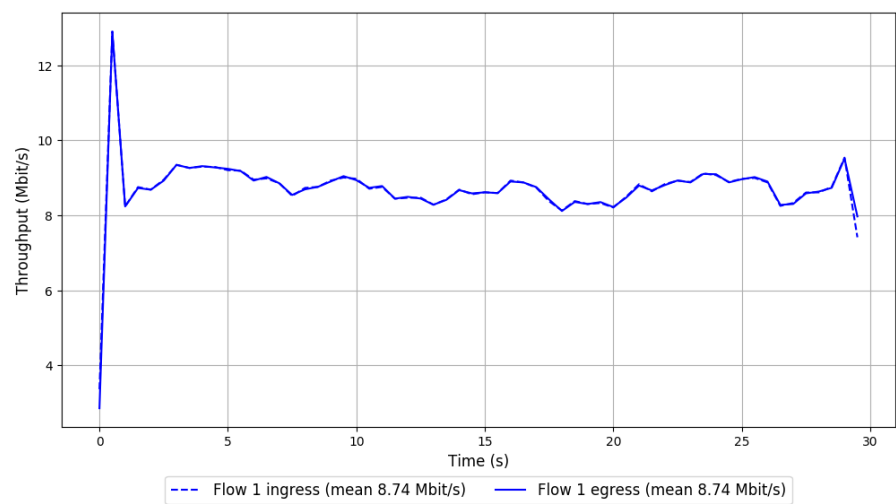


Run 8: Statistics of PCC

Start at: 2018-02-20 05:08:33
End at: 2018-02-20 05:09:03
Local clock offset: 0.421 ms
Remote clock offset: -1.405 ms

Below is generated by plot.py at 2018-02-20 06:51:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 8.74 Mbit/s
95th percentile per-packet one-way delay: 29.924 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.74 Mbit/s
95th percentile per-packet one-way delay: 29.924 ms
Loss rate: 0.00%

Run 8: Report of PCC — Data Link

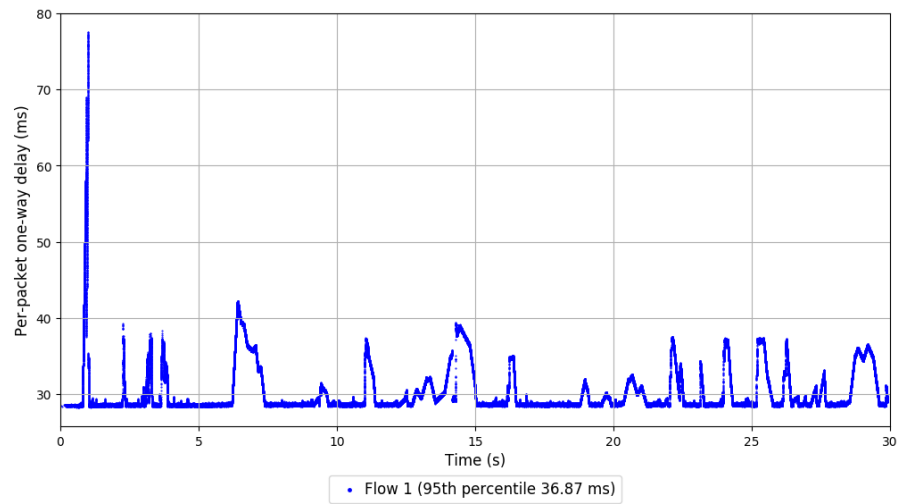
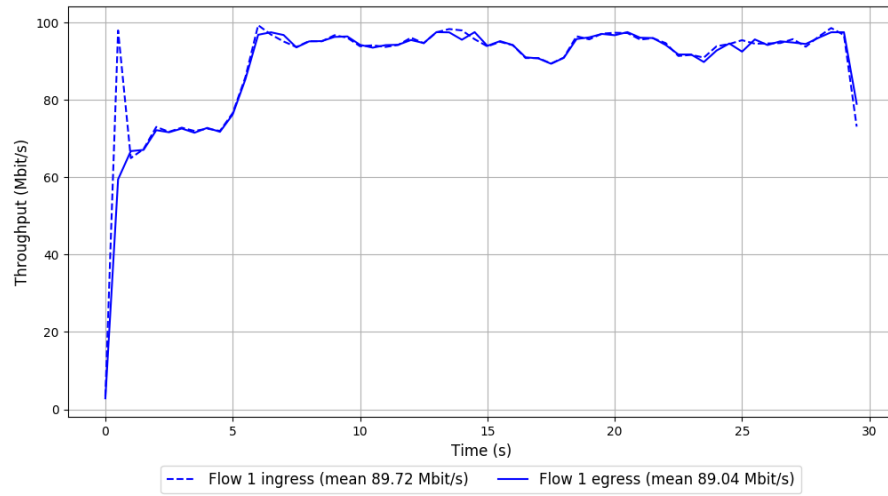


Run 9: Statistics of PCC

Start at: 2018-02-20 05:37:14
End at: 2018-02-20 05:37:44
Local clock offset: 0.252 ms
Remote clock offset: -5.148 ms

Below is generated by plot.py at 2018-02-20 06:52:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.04 Mbit/s
95th percentile per-packet one-way delay: 36.873 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 89.04 Mbit/s
95th percentile per-packet one-way delay: 36.873 ms
Loss rate: 0.76%

Run 9: Report of PCC — Data Link

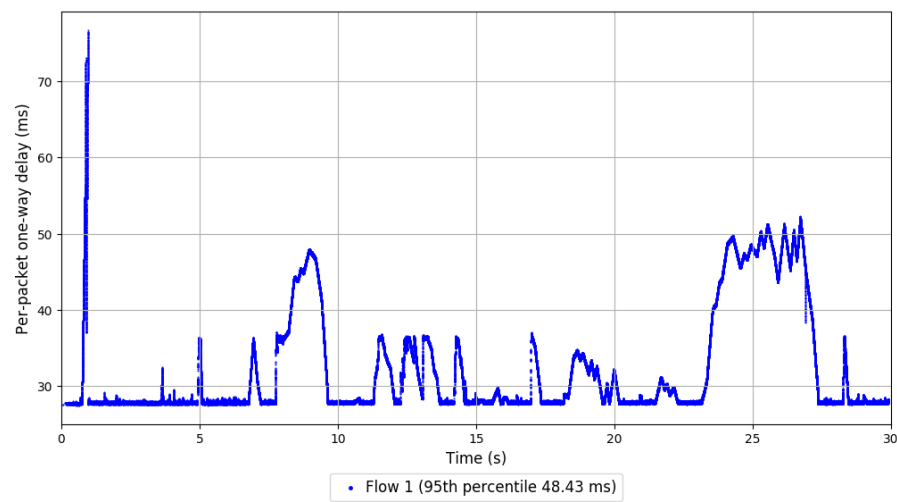
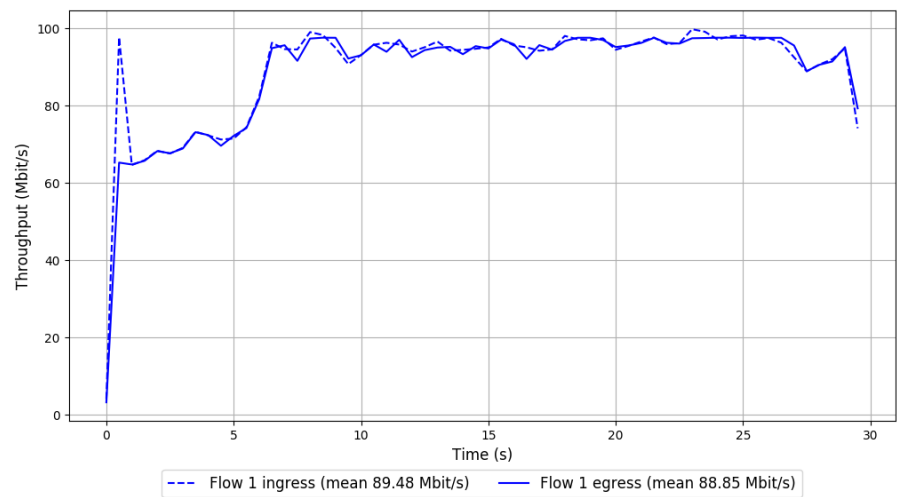


Run 10: Statistics of PCC

Start at: 2018-02-20 06:01:43
End at: 2018-02-20 06:02:13
Local clock offset: 2.44 ms
Remote clock offset: -4.445 ms

Below is generated by plot.py at 2018-02-20 06:52:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.85 Mbit/s
95th percentile per-packet one-way delay: 48.430 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 88.85 Mbit/s
95th percentile per-packet one-way delay: 48.430 ms
Loss rate: 0.71%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

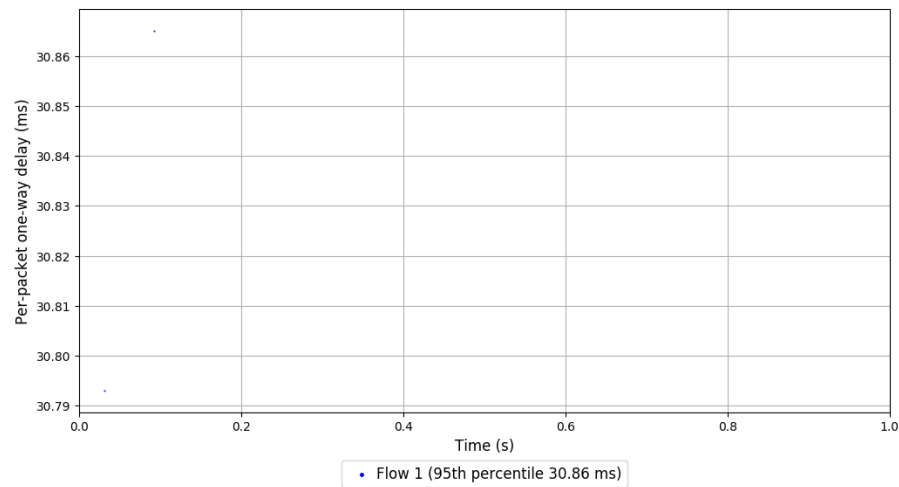
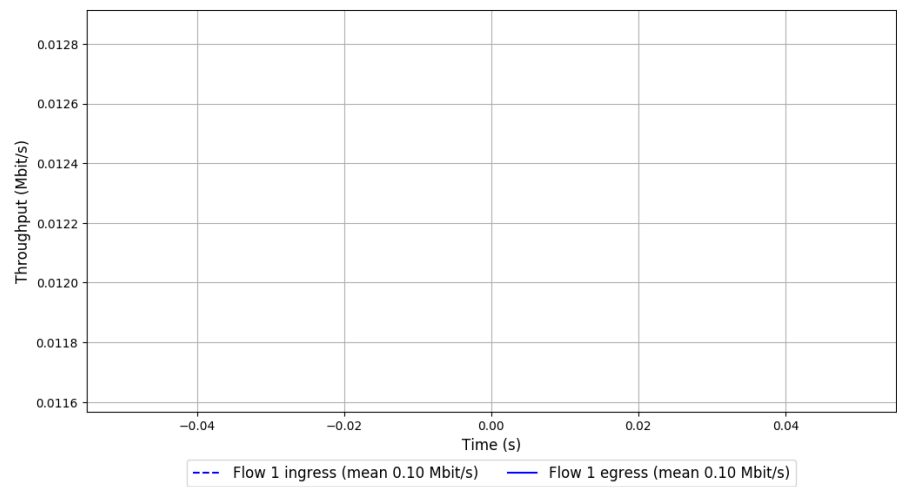
Start at: 2018-02-20 02:05:39

End at: 2018-02-20 02:06:09

Local clock offset: -5.104 ms

Remote clock offset: -2.502 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-20 02:36:53

End at: 2018-02-20 02:37:23

Local clock offset: -3.538 ms

Remote clock offset: -2.79 ms

Below is generated by plot.py at 2018-02-20 06:52:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.12 Mbit/s

95th percentile per-packet one-way delay: 28.180 ms

Loss rate: 0.03%

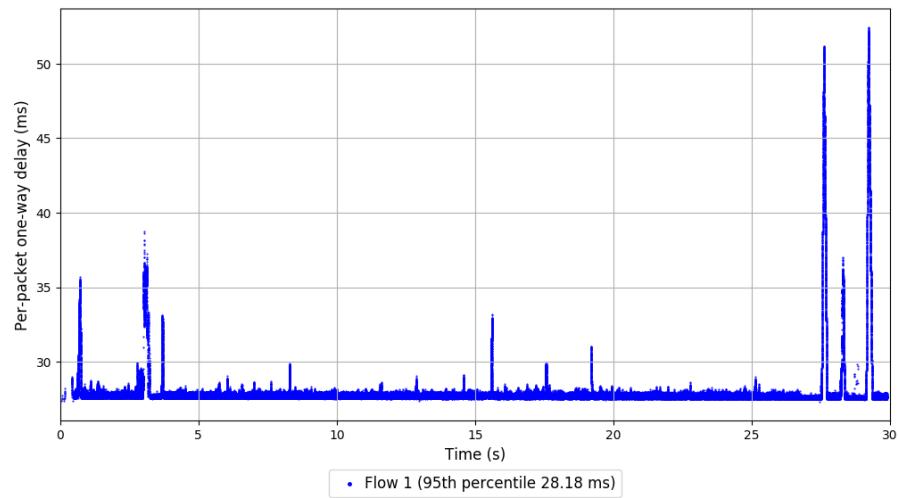
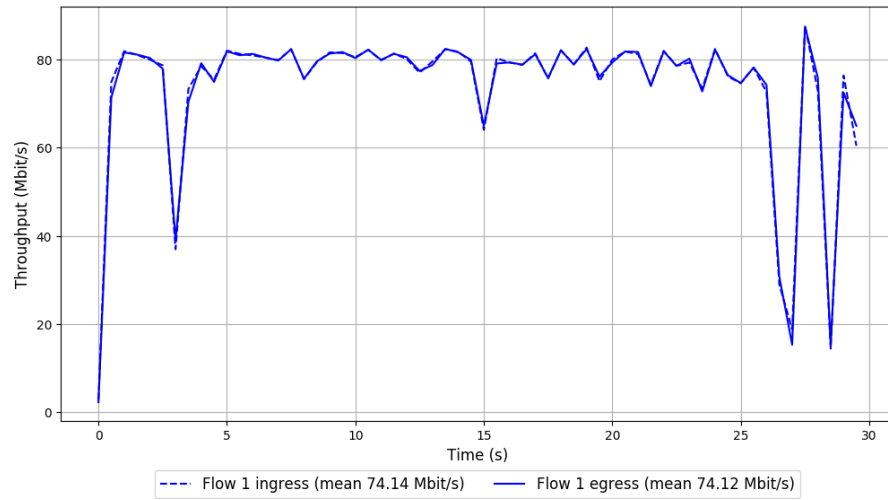
-- Flow 1:

Average throughput: 74.12 Mbit/s

95th percentile per-packet one-way delay: 28.180 ms

Loss rate: 0.03%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-20 03:06:23

End at: 2018-02-20 03:06:53

Local clock offset: 2.389 ms

Remote clock offset: -0.542 ms

Below is generated by plot.py at 2018-02-20 06:52:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.10 Mbit/s

95th percentile per-packet one-way delay: 64.676 ms

Loss rate: 0.87%

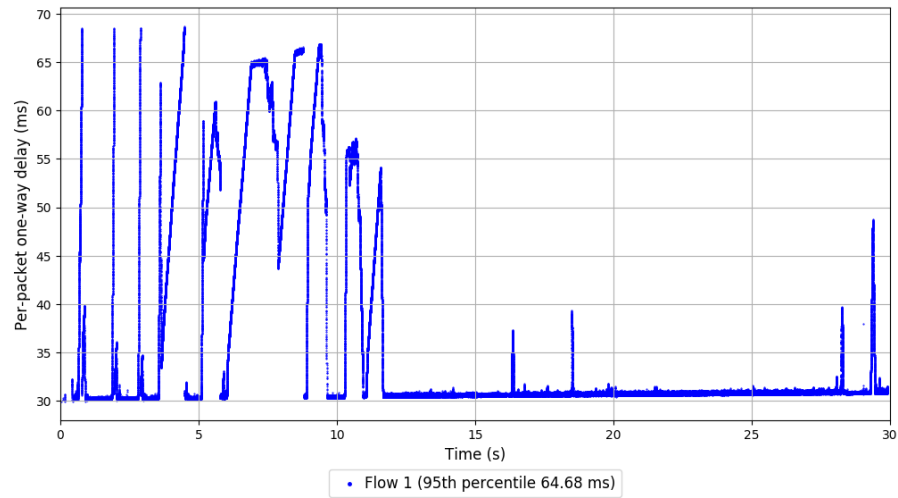
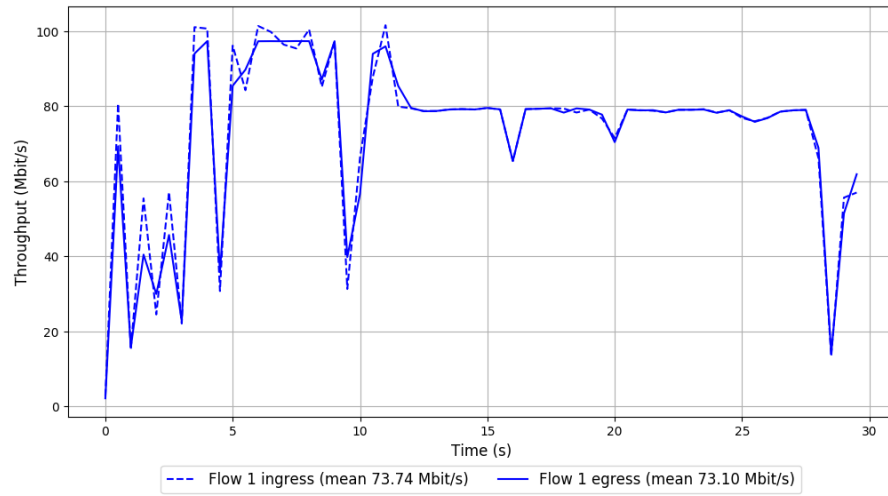
-- Flow 1:

Average throughput: 73.10 Mbit/s

95th percentile per-packet one-way delay: 64.676 ms

Loss rate: 0.87%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-20 03:34:52

End at: 2018-02-20 03:35:22

Local clock offset: 5.697 ms

Remote clock offset: -9.885 ms

Below is generated by plot.py at 2018-02-20 06:52:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.93 Mbit/s

95th percentile per-packet one-way delay: 45.458 ms

Loss rate: 0.88%

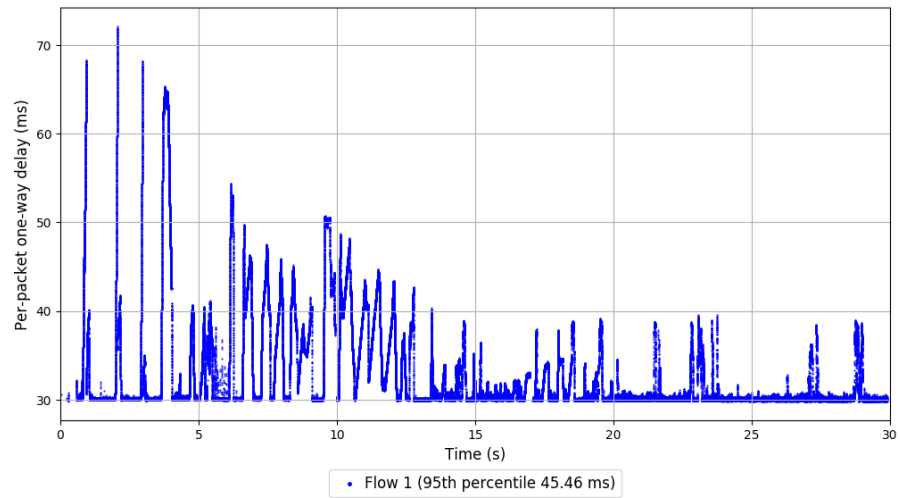
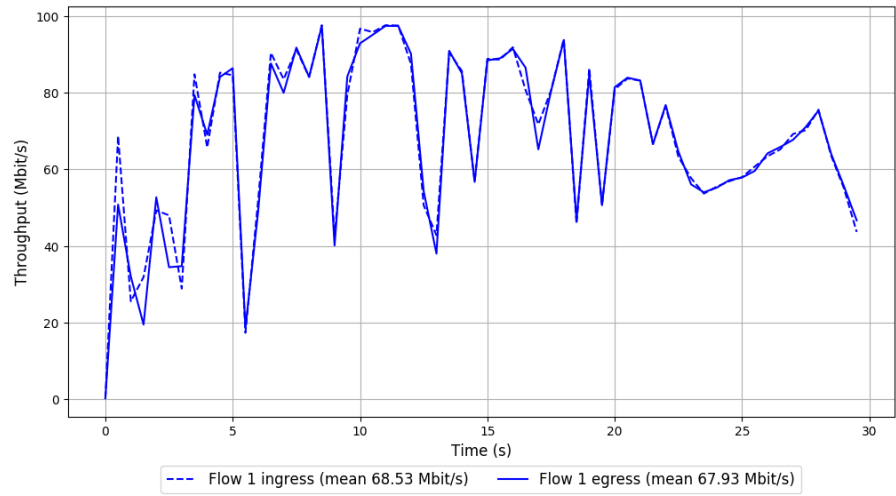
-- Flow 1:

Average throughput: 67.93 Mbit/s

95th percentile per-packet one-way delay: 45.458 ms

Loss rate: 0.88%

Run 4: Report of QUIC Cubic — Data Link

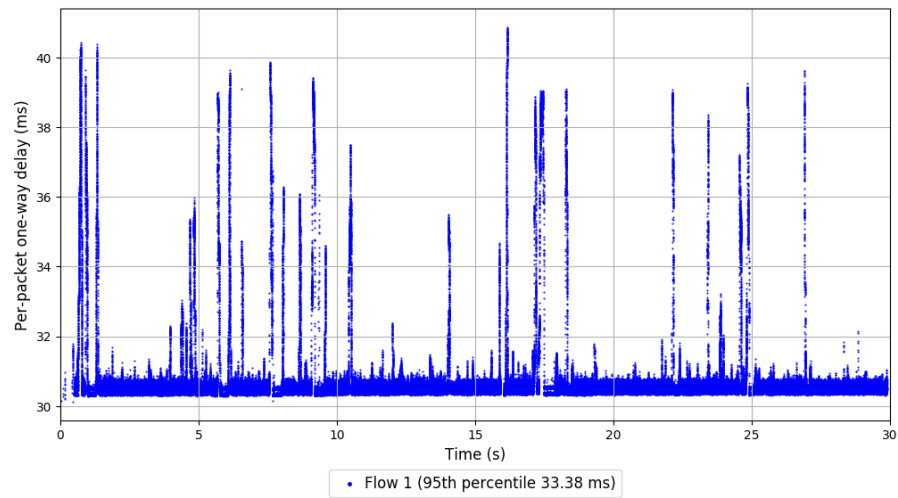
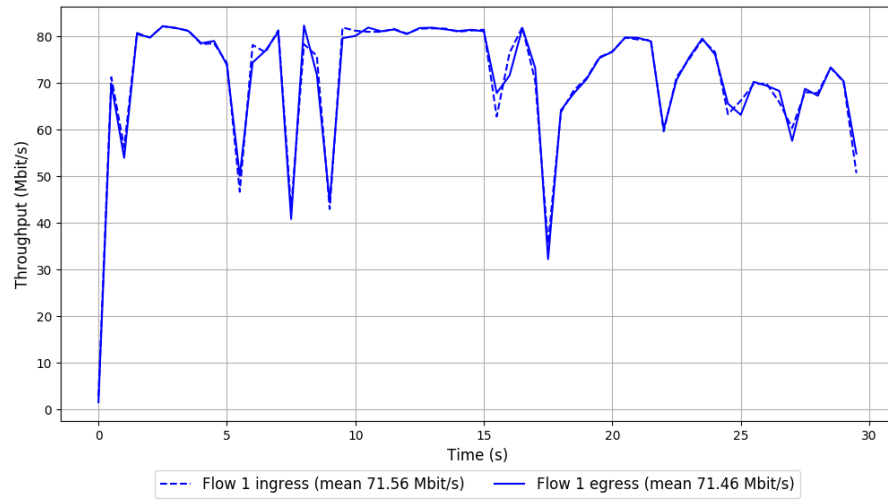


Run 5: Statistics of QUIC Cubic

Start at: 2018-02-20 04:03:35
End at: 2018-02-20 04:04:05
Local clock offset: 1.791 ms
Remote clock offset: -11.488 ms

Below is generated by plot.py at 2018-02-20 06:52:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 71.46 Mbit/s
95th percentile per-packet one-way delay: 33.382 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 71.46 Mbit/s
95th percentile per-packet one-way delay: 33.382 ms
Loss rate: 0.14%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-20 04:32:05

End at: 2018-02-20 04:32:35

Local clock offset: -5.641 ms

Remote clock offset: -7.26 ms

Below is generated by plot.py at 2018-02-20 06:53:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.55 Mbit/s

95th percentile per-packet one-way delay: 41.069 ms

Loss rate: 0.11%

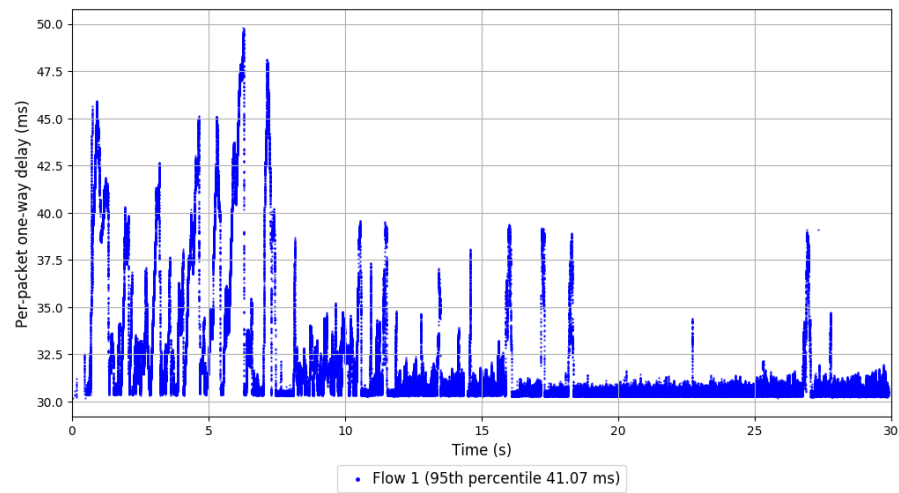
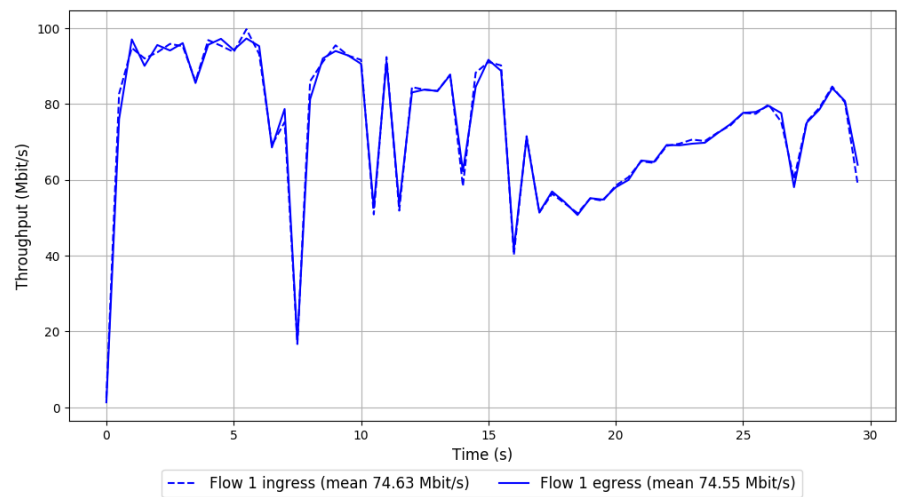
-- Flow 1:

Average throughput: 74.55 Mbit/s

95th percentile per-packet one-way delay: 41.069 ms

Loss rate: 0.11%

Run 6: Report of QUIC Cubic — Data Link

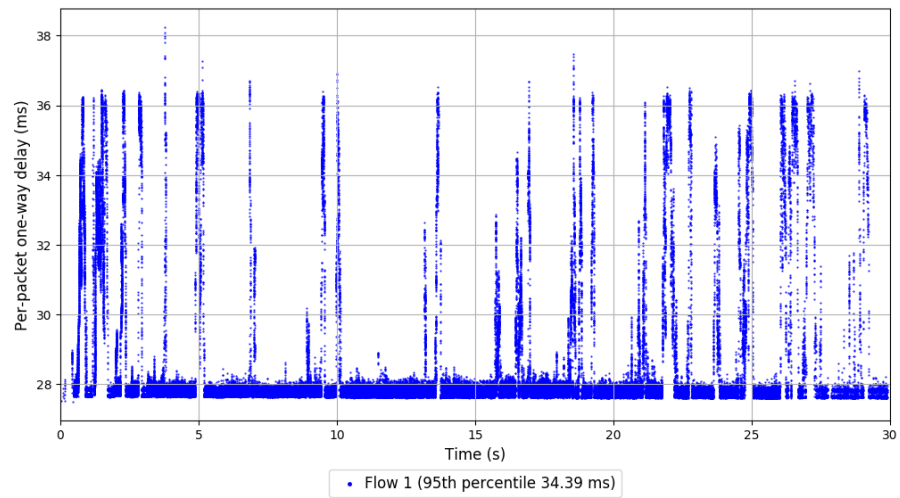
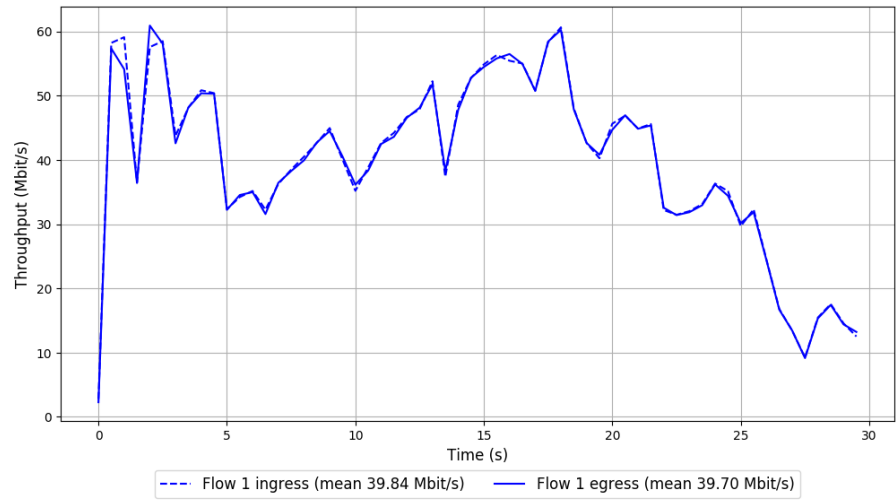


Run 7: Statistics of QUIC Cubic

Start at: 2018-02-20 04:59:42
End at: 2018-02-20 05:00:12
Local clock offset: -0.012 ms
Remote clock offset: -4.831 ms

Below is generated by plot.py at 2018-02-20 06:53:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 39.70 Mbit/s
95th percentile per-packet one-way delay: 34.390 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 39.70 Mbit/s
95th percentile per-packet one-way delay: 34.390 ms
Loss rate: 0.37%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-20 05:28:45

End at: 2018-02-20 05:29:15

Local clock offset: 0.214 ms

Remote clock offset: -2.113 ms

Below is generated by plot.py at 2018-02-20 06:53:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.38 Mbit/s

95th percentile per-packet one-way delay: 33.957 ms

Loss rate: 0.24%

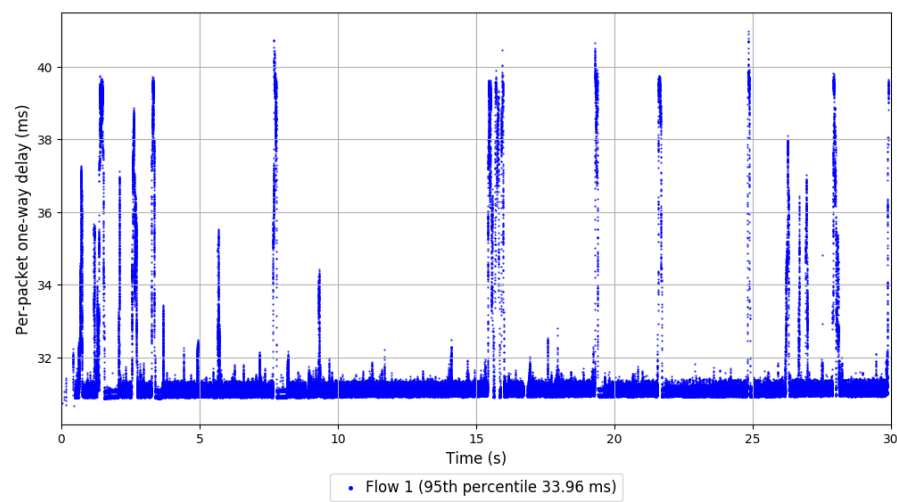
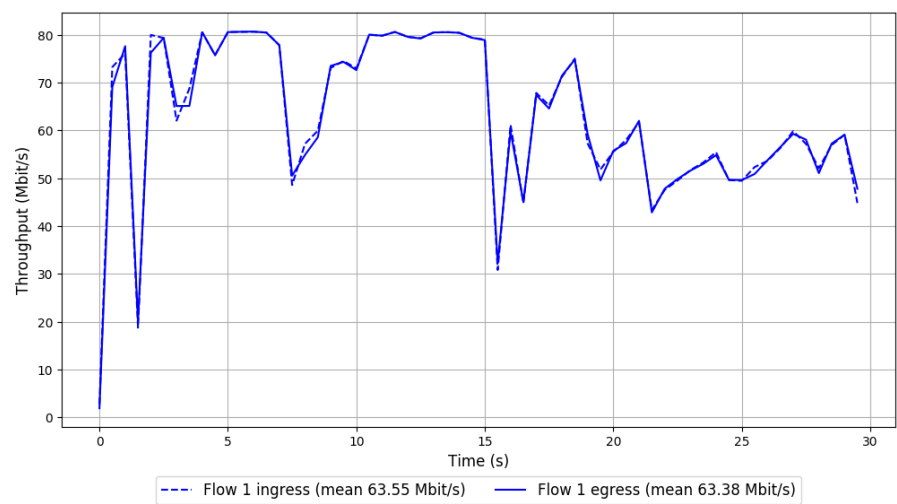
-- Flow 1:

Average throughput: 63.38 Mbit/s

95th percentile per-packet one-way delay: 33.957 ms

Loss rate: 0.24%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-20 05:53:48

End at: 2018-02-20 05:54:18

Local clock offset: 1.506 ms

Remote clock offset: -4.761 ms

Below is generated by plot.py at 2018-02-20 06:53:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.25 Mbit/s

95th percentile per-packet one-way delay: 36.683 ms

Loss rate: 0.08%

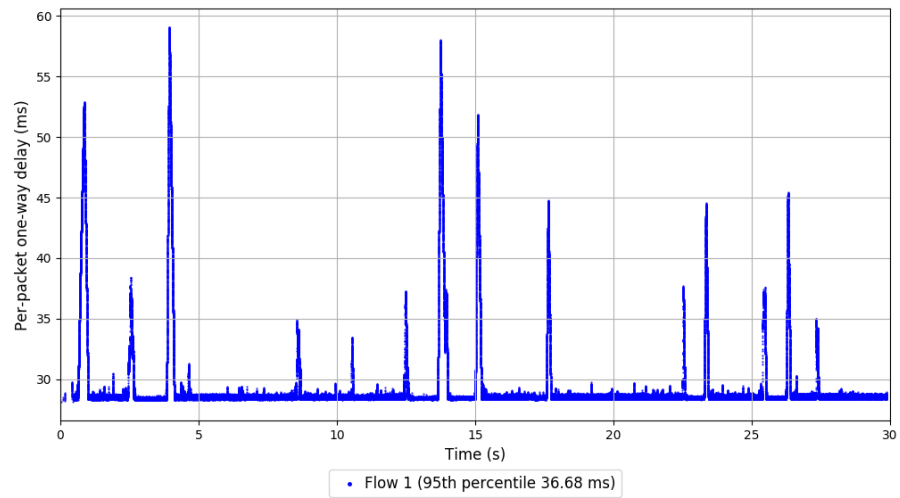
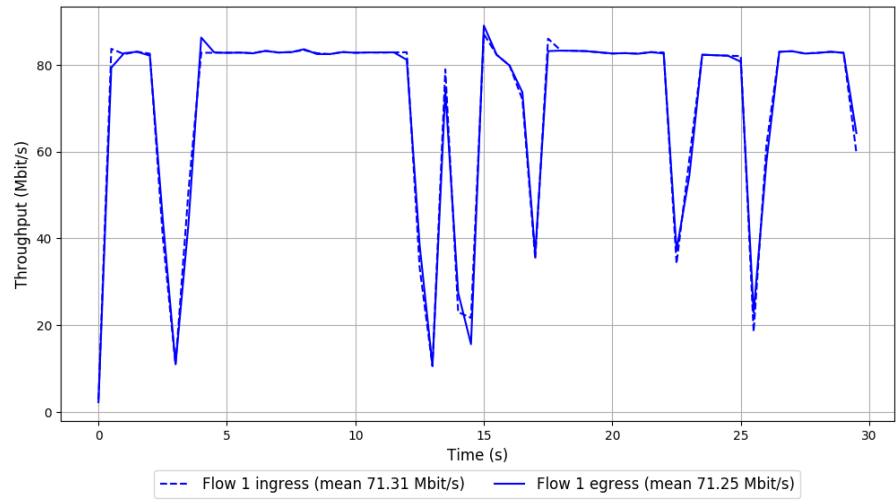
-- Flow 1:

Average throughput: 71.25 Mbit/s

95th percentile per-packet one-way delay: 36.683 ms

Loss rate: 0.08%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-02-20 06:20:35

End at: 2018-02-20 06:21:05

Local clock offset: 3.663 ms

Remote clock offset: -0.974 ms

Below is generated by plot.py at 2018-02-20 06:53:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.10 Mbit/s

95th percentile per-packet one-way delay: 31.239 ms

Loss rate: 0.10%

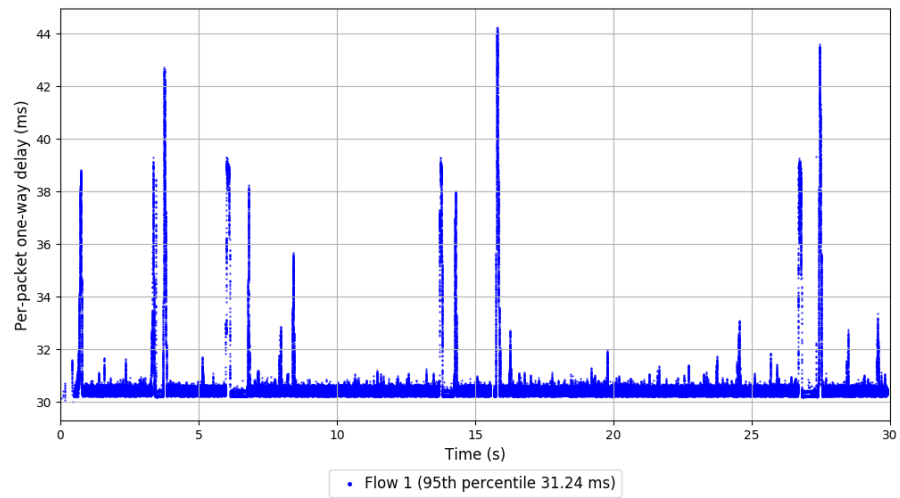
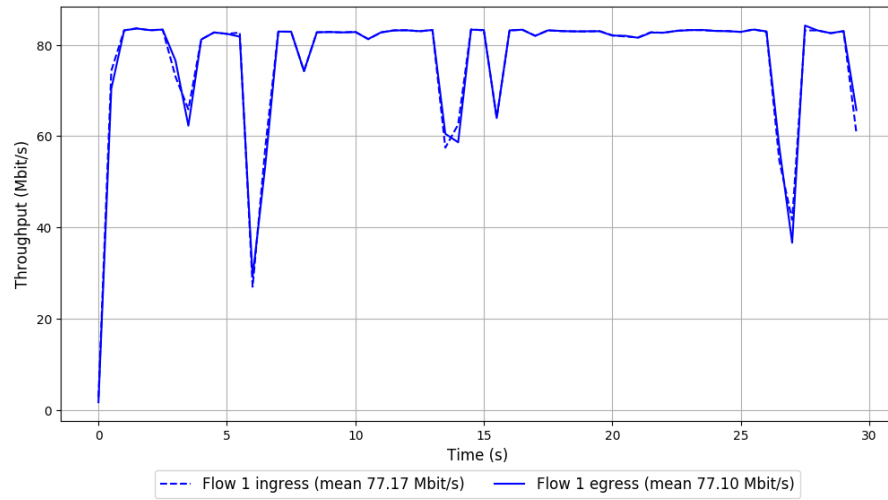
-- Flow 1:

Average throughput: 77.10 Mbit/s

95th percentile per-packet one-way delay: 31.239 ms

Loss rate: 0.10%

Run 10: Report of QUIC Cubic — Data Link

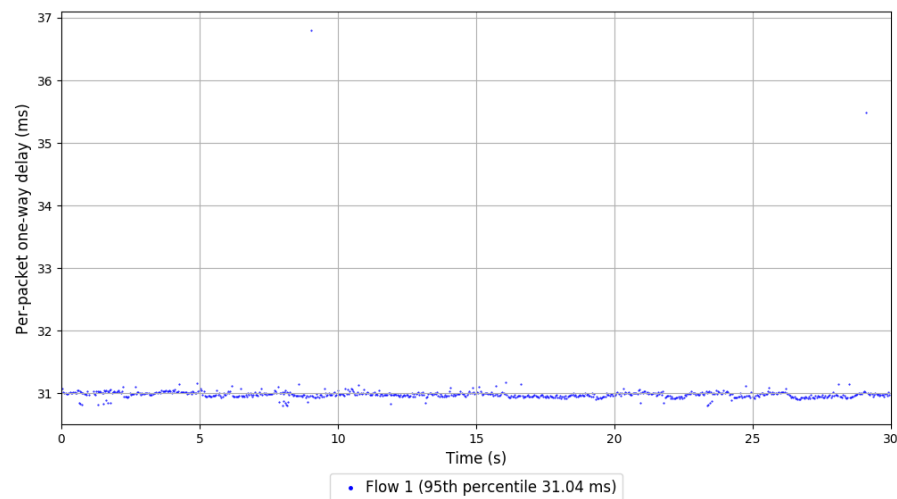
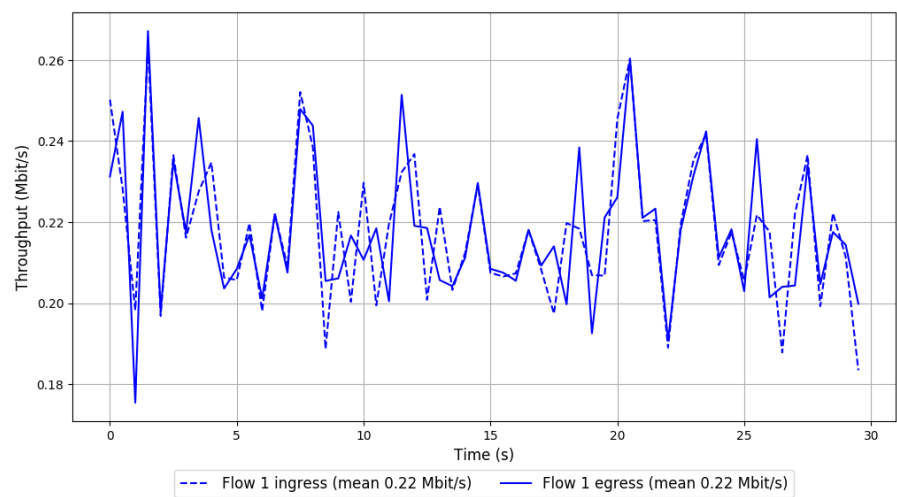


```
Run 1: Statistics of SCReAM

Start at: 2018-02-20 01:53:02
End at: 2018-02-20 01:53:32
Local clock offset: -4.509 ms
Remote clock offset: -1.31 ms

# Below is generated by plot.py at 2018-02-20 06:53:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.041 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.041 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

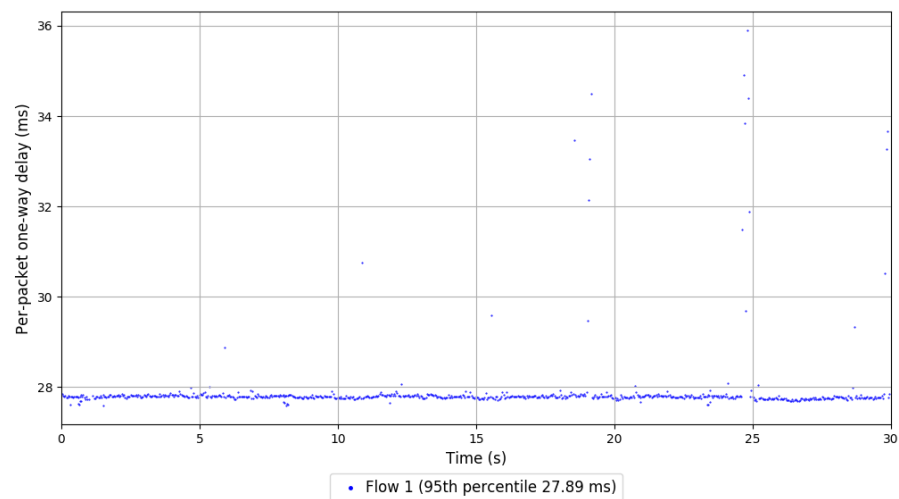
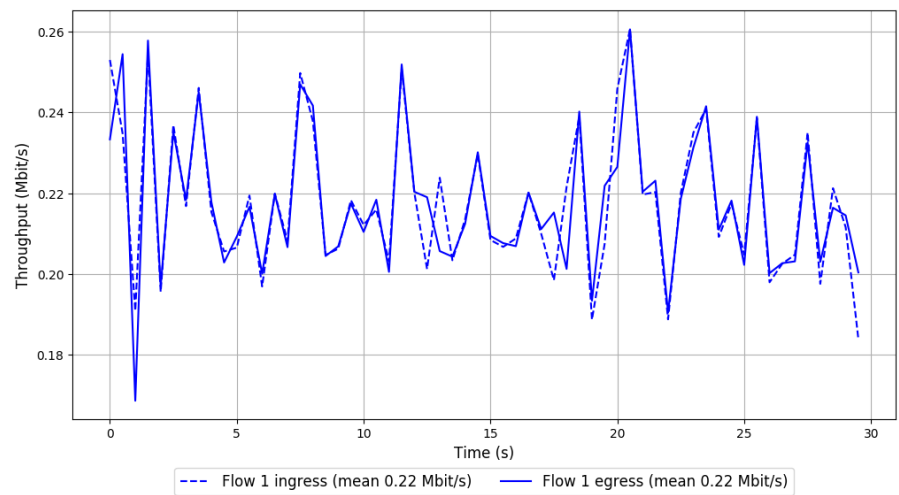


Run 2: Statistics of SCReAM

Start at: 2018-02-20 02:22:27
End at: 2018-02-20 02:22:57
Local clock offset: -5.45 ms
Remote clock offset: -4.978 ms

Below is generated by plot.py at 2018-02-20 06:53:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.889 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.889 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

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

End at: 2018-02-20 02:54:50

Local clock offset: -2.899 ms

Remote clock offset: 2.021 ms

Below is generated by plot.py at 2018-02-20 06:53:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.359 ms

Loss rate: 0.00%

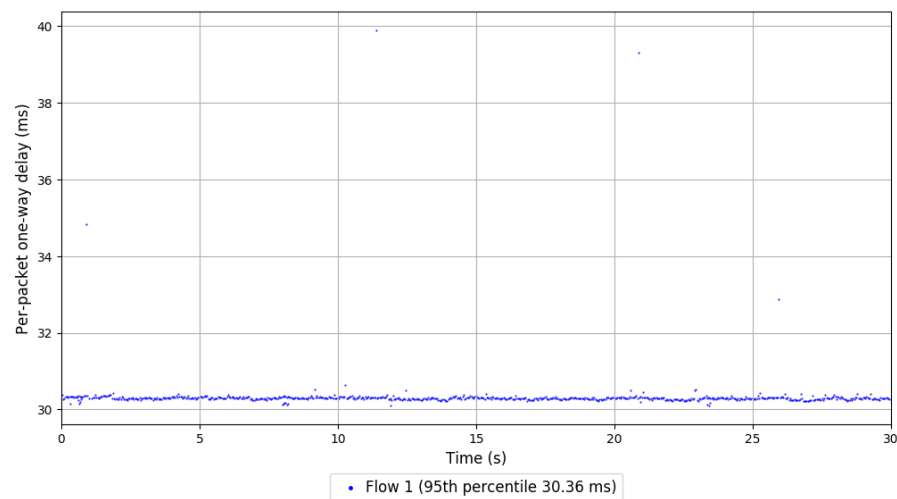
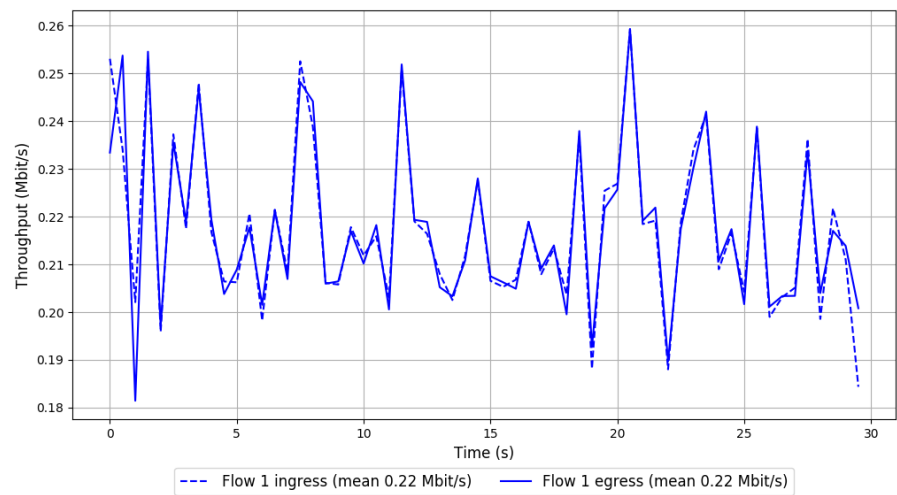
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.359 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

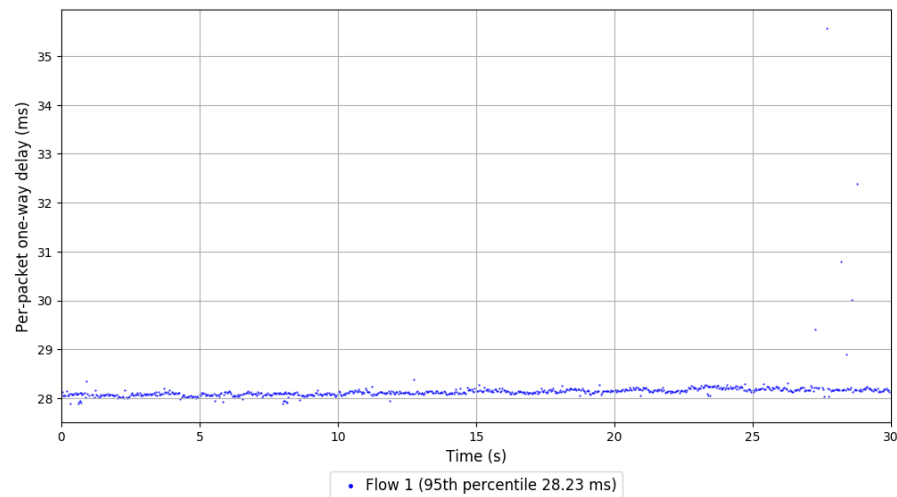
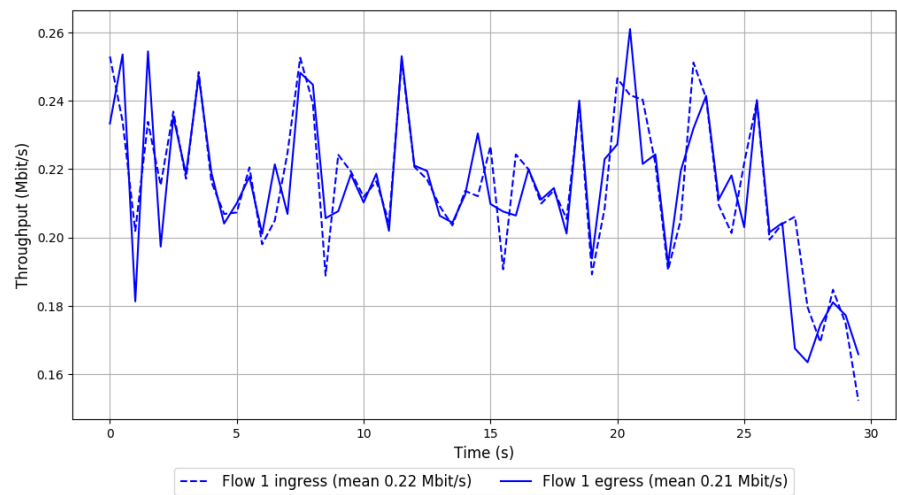


Run 4: Statistics of SReAM

Start at: 2018-02-20 03:23:04
End at: 2018-02-20 03:23:34
Local clock offset: 6.353 ms
Remote clock offset: -10.232 ms

Below is generated by plot.py at 2018-02-20 06:53:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 28.229 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 28.229 ms
Loss rate: 0.41%

Run 4: Report of SReAM — Data Link

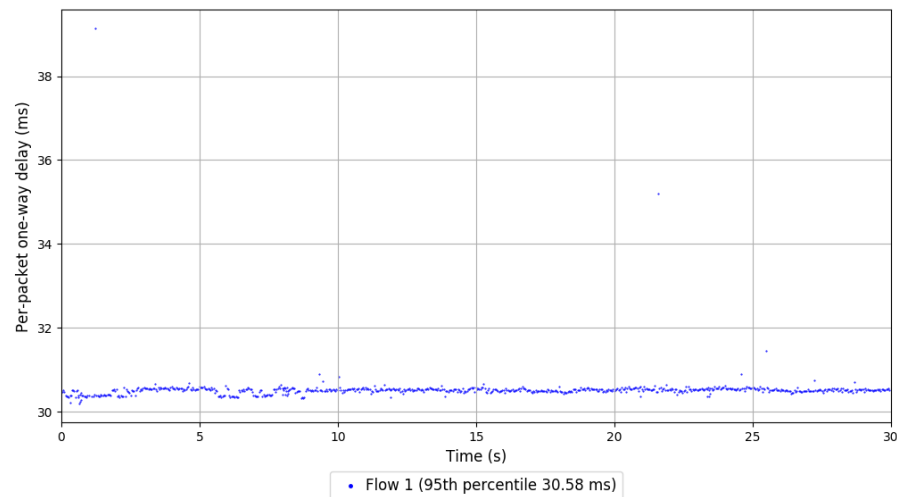
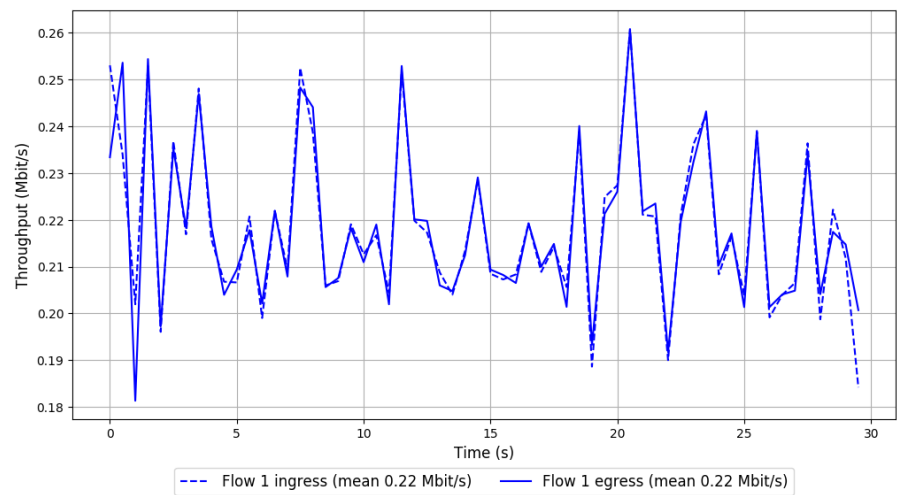


Run 5: Statistics of SCReAM

Start at: 2018-02-20 03:51:40
End at: 2018-02-20 03:52:10
Local clock offset: 2.079 ms
Remote clock offset: -11.038 ms

Below is generated by plot.py at 2018-02-20 06:53:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.579 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.579 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

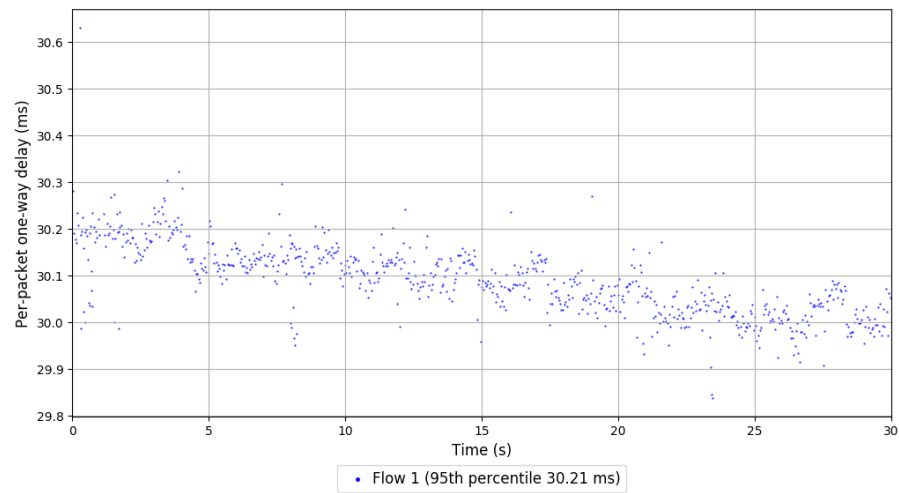
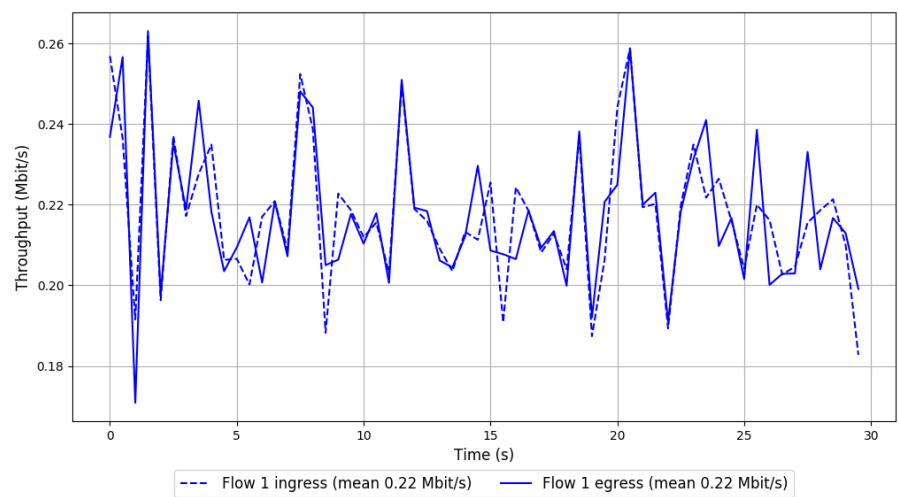


Run 6: Statistics of SCReAM

Start at: 2018-02-20 04:21:19
End at: 2018-02-20 04:21:49
Local clock offset: -4.047 ms
Remote clock offset: -8.388 ms

Below is generated by plot.py at 2018-02-20 06:53:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.207 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.207 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

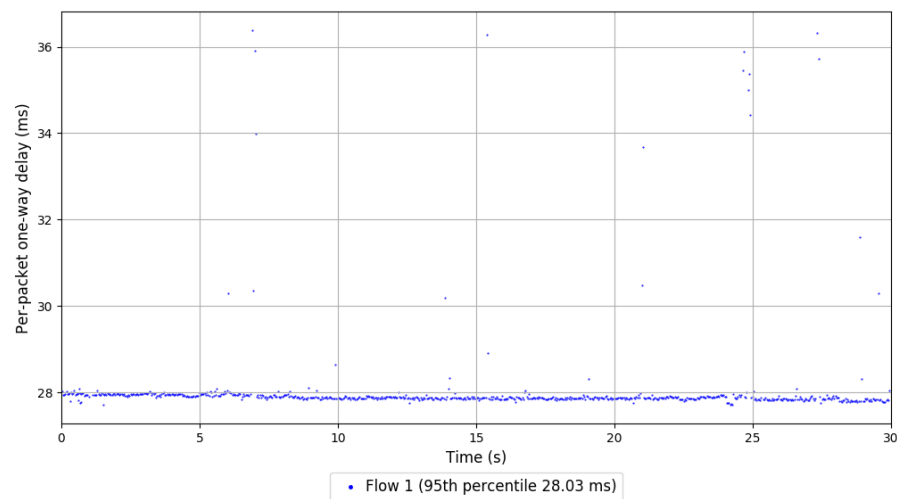
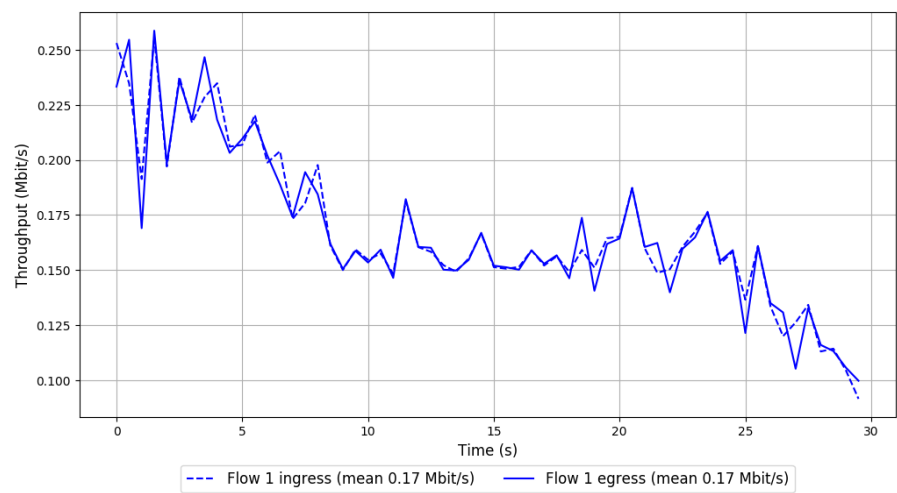


Run 7: Statistics of SCReAM

Start at: 2018-02-20 04:48:49
End at: 2018-02-20 04:49:19
Local clock offset: -2.006 ms
Remote clock offset: -7.778 ms

Below is generated by plot.py at 2018-02-20 06:53:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 28.028 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 28.028 ms
Loss rate: 0.42%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-20 05:16:10

End at: 2018-02-20 05:16:40

Local clock offset: 0.601 ms

Remote clock offset: 0.188 ms

Below is generated by plot.py at 2018-02-20 06:53:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.169 ms

Loss rate: 0.00%

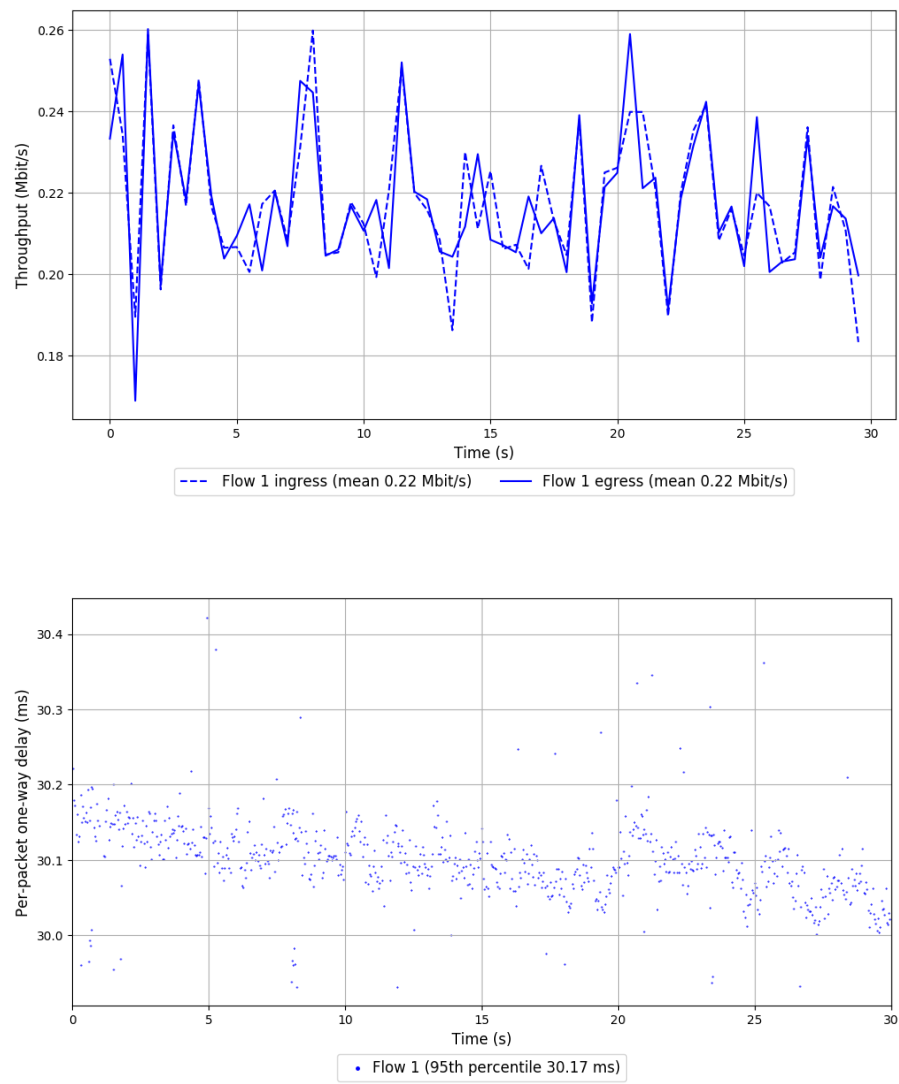
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.169 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-02-20 05:44:17

End at: 2018-02-20 05:44:47

Local clock offset: 0.273 ms

Remote clock offset: -2.66 ms

Below is generated by plot.py at 2018-02-20 06:53:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.966 ms

Loss rate: 0.00%

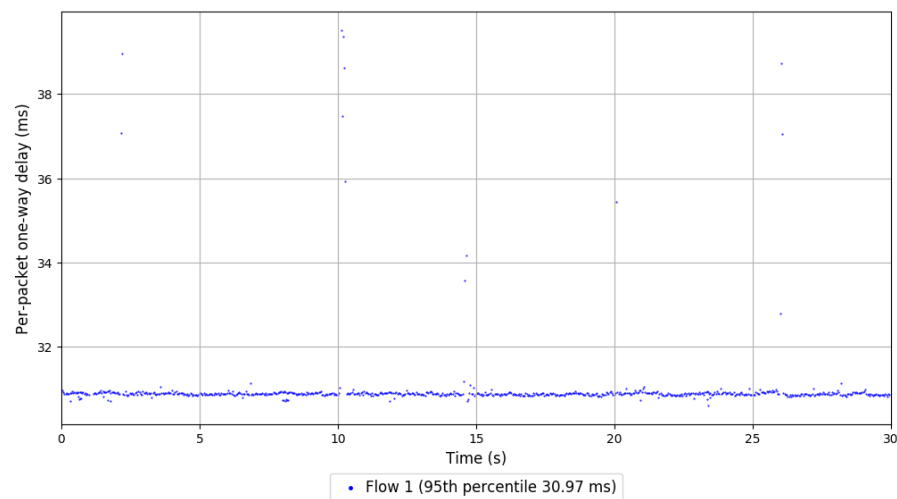
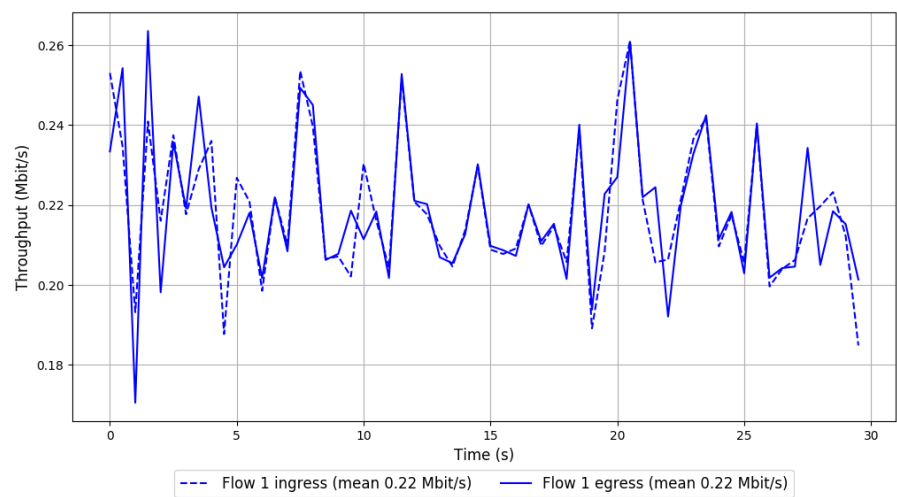
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.966 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-20 06:09:28

End at: 2018-02-20 06:09:58

Local clock offset: 3.015 ms

Remote clock offset: -1.807 ms

Below is generated by plot.py at 2018-02-20 06:53:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.063 ms

Loss rate: 0.00%

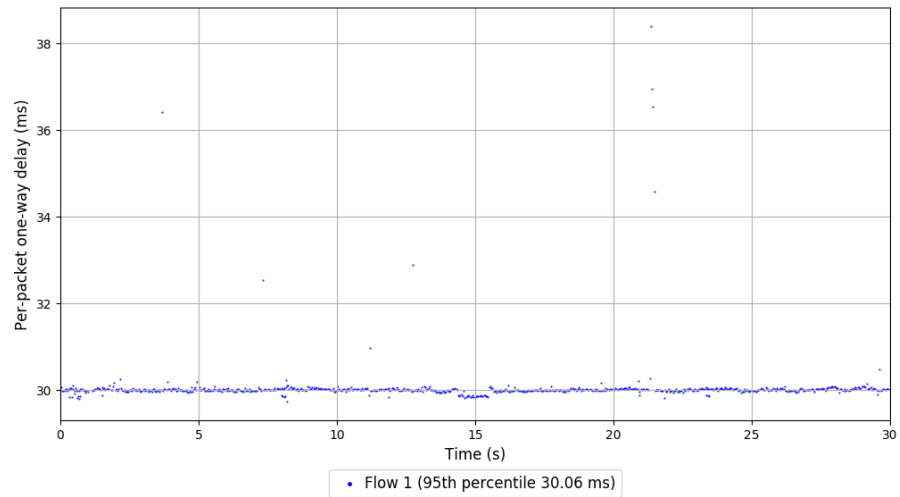
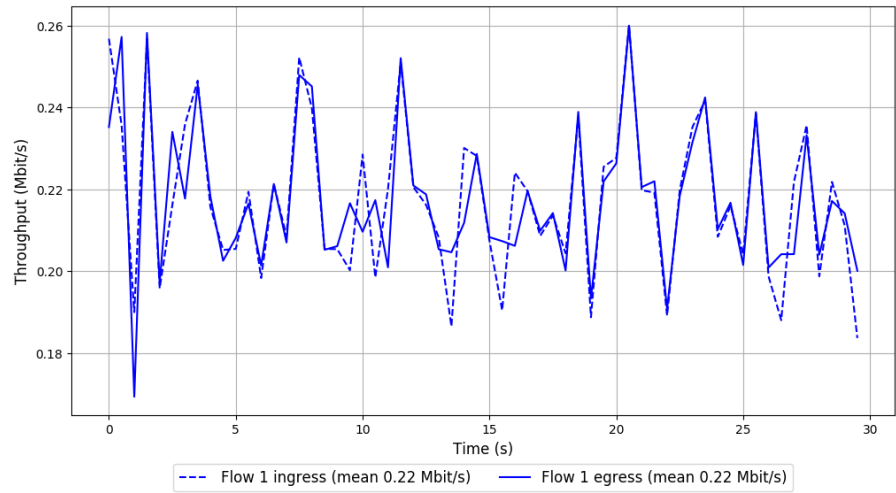
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.063 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

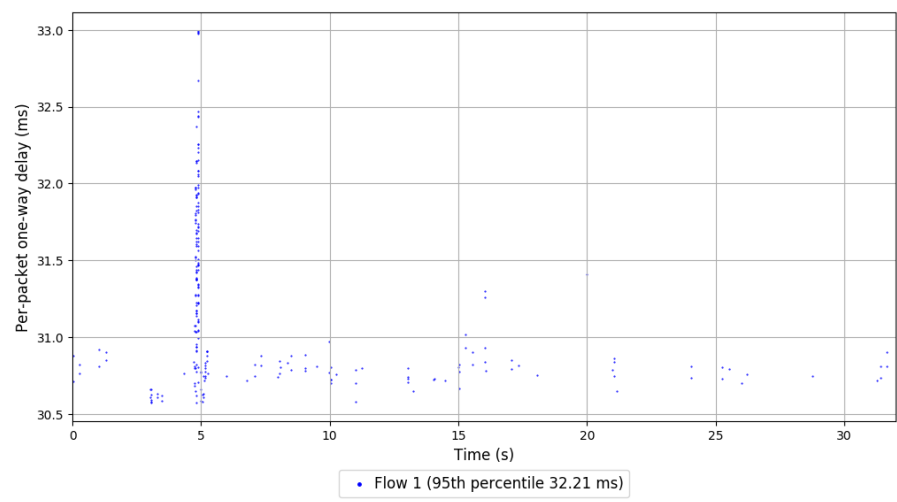
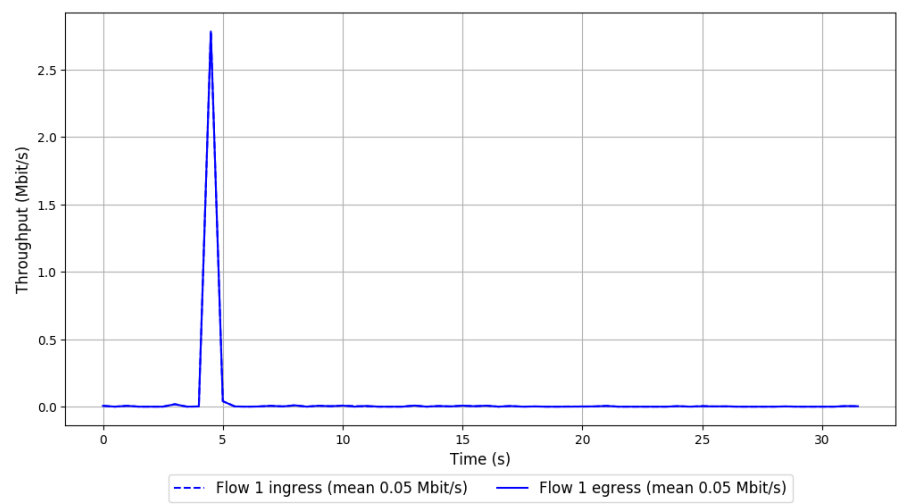


Run 1: Statistics of WebRTC media

Start at: 2018-02-20 01:46:57
End at: 2018-02-20 01:47:27
Local clock offset: -4.256 ms
Remote clock offset: -1.719 ms

Below is generated by plot.py at 2018-02-20 06:53:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 32.206 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 32.206 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

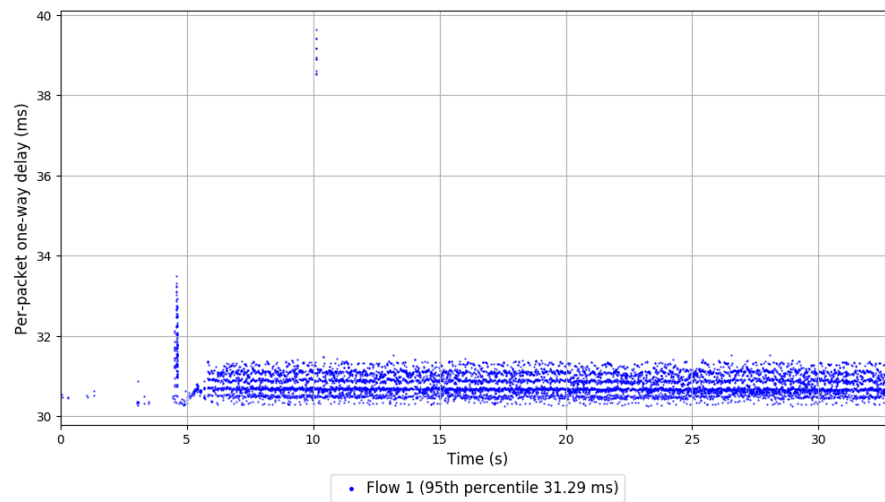
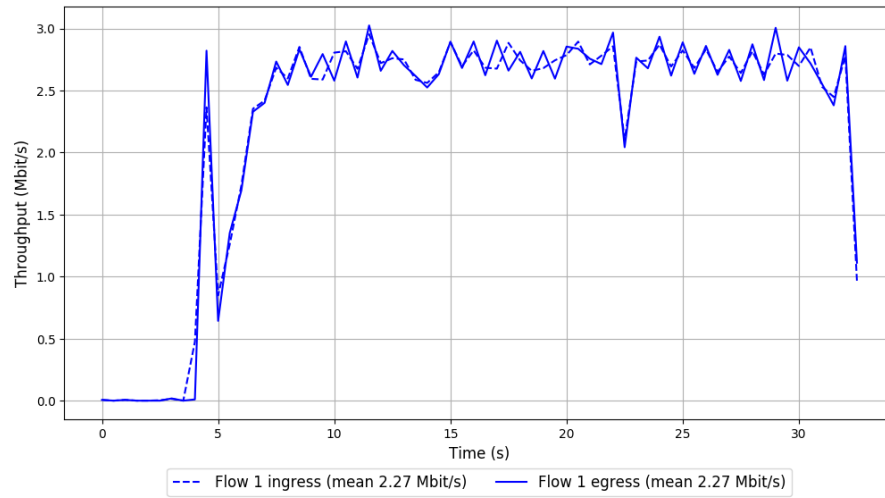


Run 2: Statistics of WebRTC media

Start at: 2018-02-20 02:16:24
End at: 2018-02-20 02:16:54
Local clock offset: -5.407 ms
Remote clock offset: -3.049 ms

Below is generated by plot.py at 2018-02-20 06:53:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 31.288 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 31.288 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

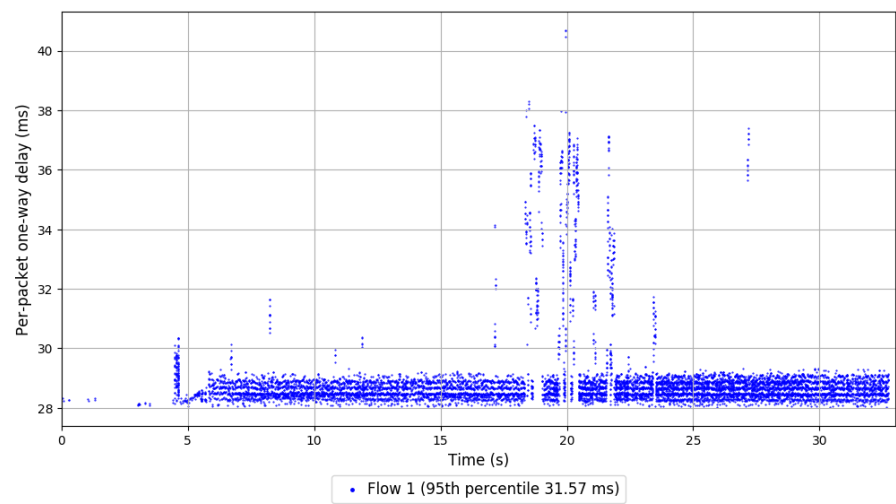
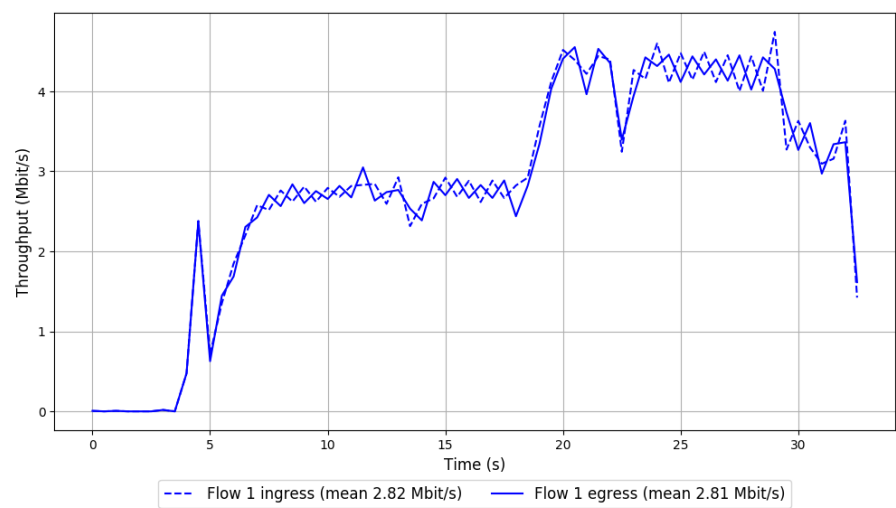


Run 3: Statistics of WebRTC media

Start at: 2018-02-20 02:47:47
End at: 2018-02-20 02:48:17
Local clock offset: -3.047 ms
Remote clock offset: -1.178 ms

Below is generated by plot.py at 2018-02-20 06:53:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.81 Mbit/s
95th percentile per-packet one-way delay: 31.575 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 2.81 Mbit/s
95th percentile per-packet one-way delay: 31.575 ms
Loss rate: 0.43%

Run 3: Report of WebRTC media — Data Link

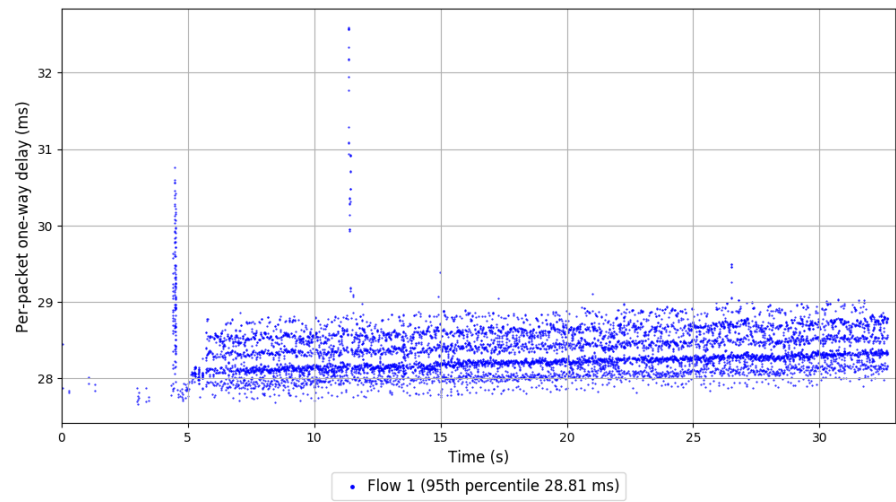
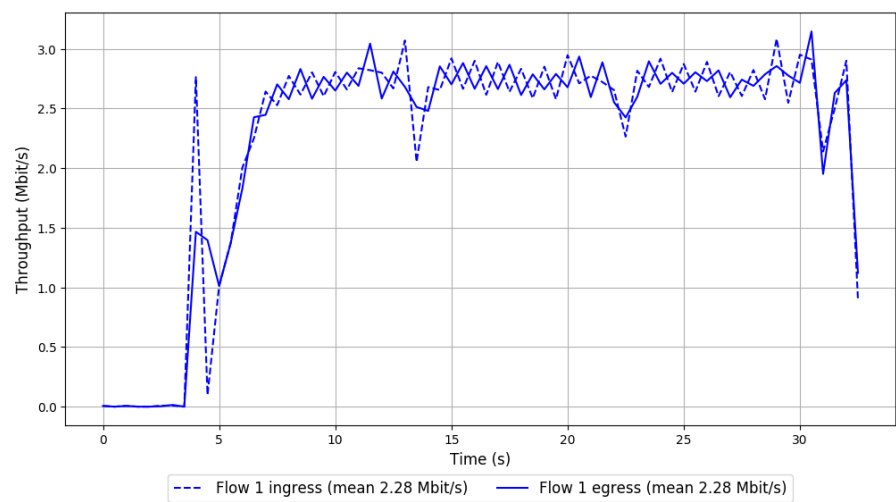


Run 4: Statistics of WebRTC media

Start at: 2018-02-20 03:16:51
End at: 2018-02-20 03:17:21
Local clock offset: 5.218 ms
Remote clock offset: -8.674 ms

Below is generated by plot.py at 2018-02-20 06:53:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 28.814 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 28.814 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-20 03:45:21

End at: 2018-02-20 03:45:51

Local clock offset: 2.594 ms

Remote clock offset: -10.568 ms

Below is generated by plot.py at 2018-02-20 06:53:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 30.589 ms

Loss rate: 0.00%

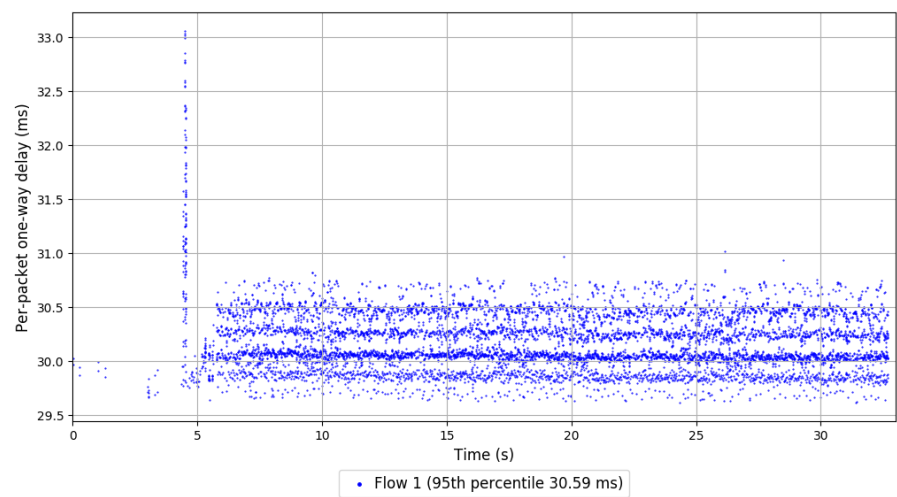
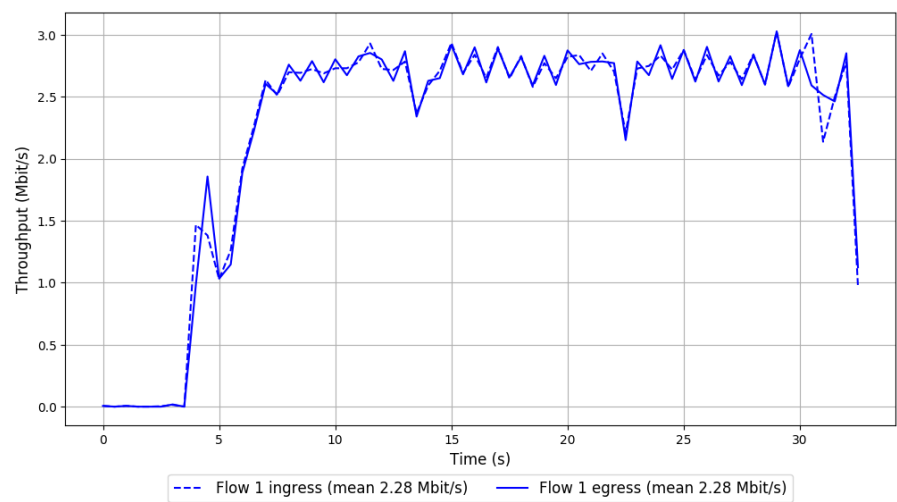
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 30.589 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

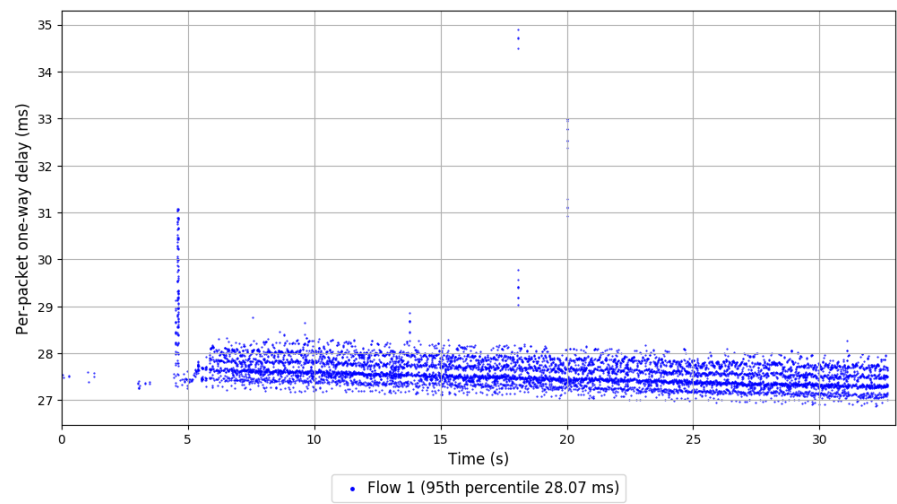
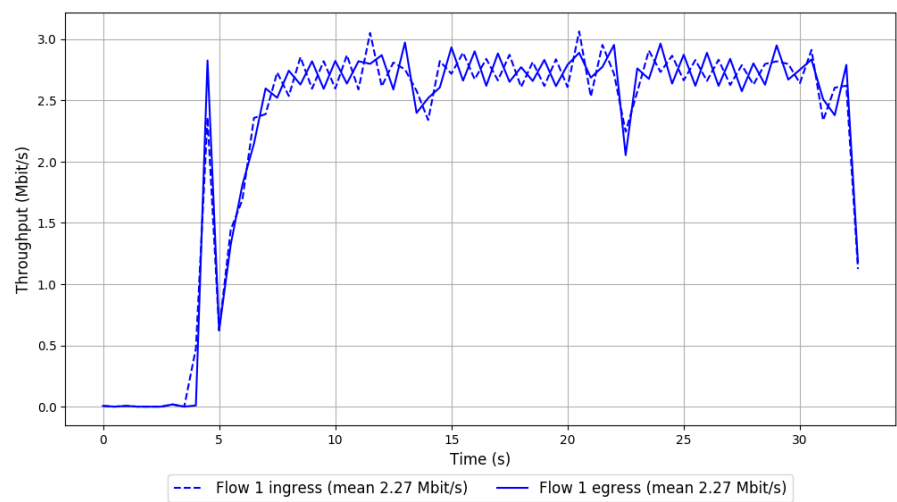


Run 6: Statistics of WebRTC media

Start at: 2018-02-20 04:14:20
End at: 2018-02-20 04:14:50
Local clock offset: -2.291 ms
Remote clock offset: -13.498 ms

Below is generated by plot.py at 2018-02-20 06:53:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 28.071 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 28.071 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

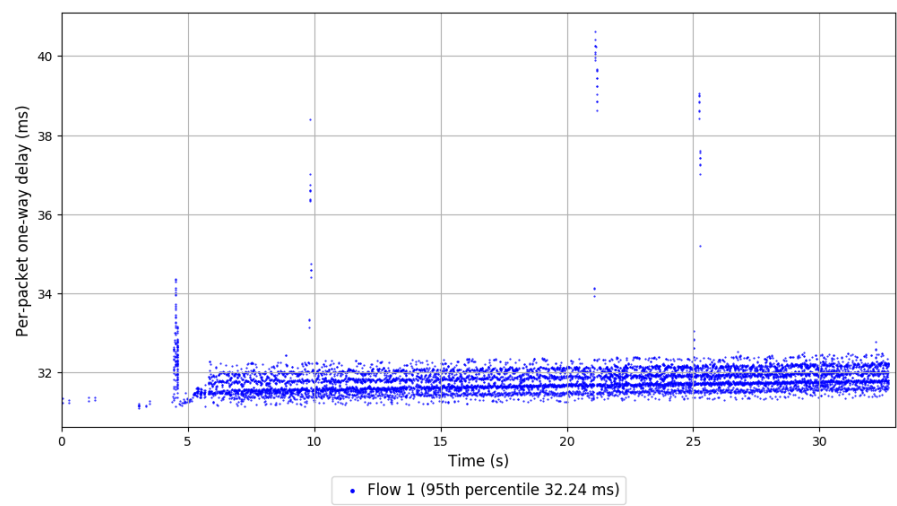
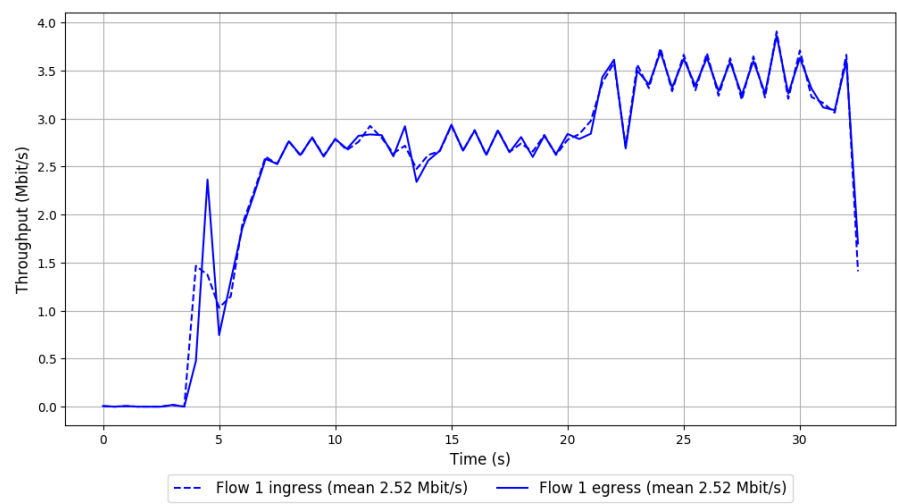


Run 7: Statistics of WebRTC media

Start at: 2018-02-20 04:42:57
End at: 2018-02-20 04:43:27
Local clock offset: -4.665 ms
Remote clock offset: -6.452 ms

Below is generated by plot.py at 2018-02-20 06:53:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.52 Mbit/s
95th percentile per-packet one-way delay: 32.244 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 2.52 Mbit/s
95th percentile per-packet one-way delay: 32.244 ms
Loss rate: 0.04%

Run 7: Report of WebRTC media — Data Link

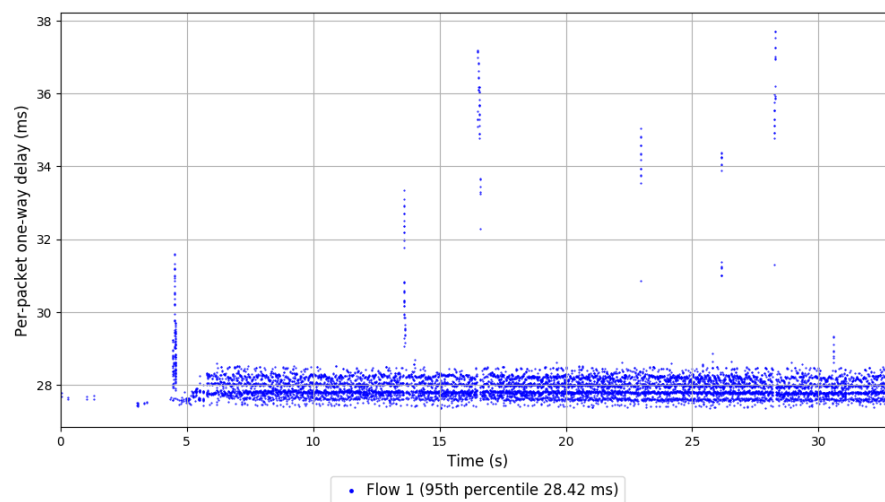
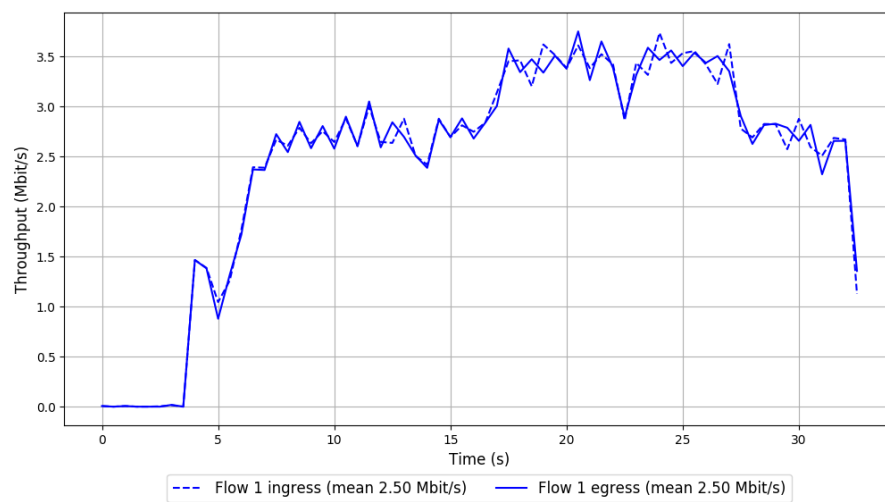


Run 8: Statistics of WebRTC media

Start at: 2018-02-20 05:09:51
End at: 2018-02-20 05:10:21
Local clock offset: 0.543 ms
Remote clock offset: -3.232 ms

Below is generated by plot.py at 2018-02-20 06:53:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.50 Mbit/s
95th percentile per-packet one-way delay: 28.417 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 2.50 Mbit/s
95th percentile per-packet one-way delay: 28.417 ms
Loss rate: 0.04%

Run 8: Report of WebRTC media — Data Link

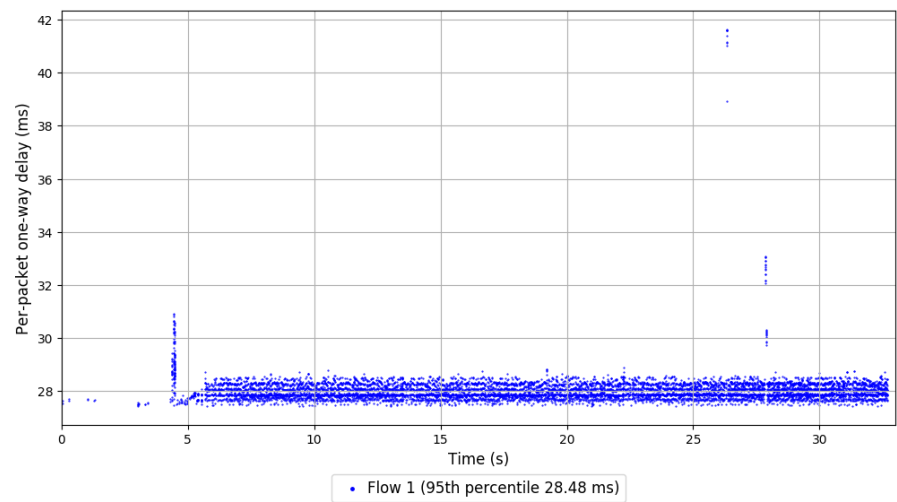
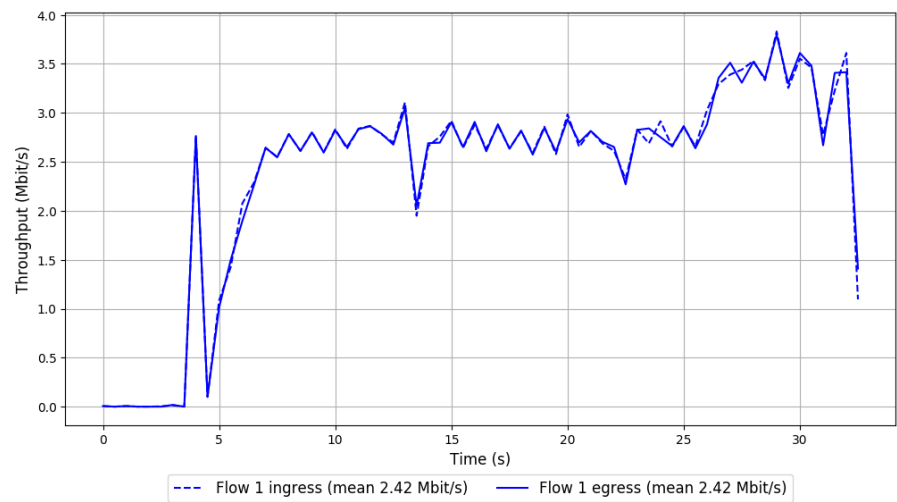


Run 9: Statistics of WebRTC media

Start at: 2018-02-20 05:38:41
End at: 2018-02-20 05:39:11
Local clock offset: 0.257 ms
Remote clock offset: -5.221 ms

Below is generated by plot.py at 2018-02-20 06:53:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 28.480 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 28.480 ms
Loss rate: 0.02%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-20 06:03:12

End at: 2018-02-20 06:03:42

Local clock offset: 2.667 ms

Remote clock offset: -2.134 ms

Below is generated by plot.py at 2018-02-20 06:53:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 31.247 ms

Loss rate: 0.00%

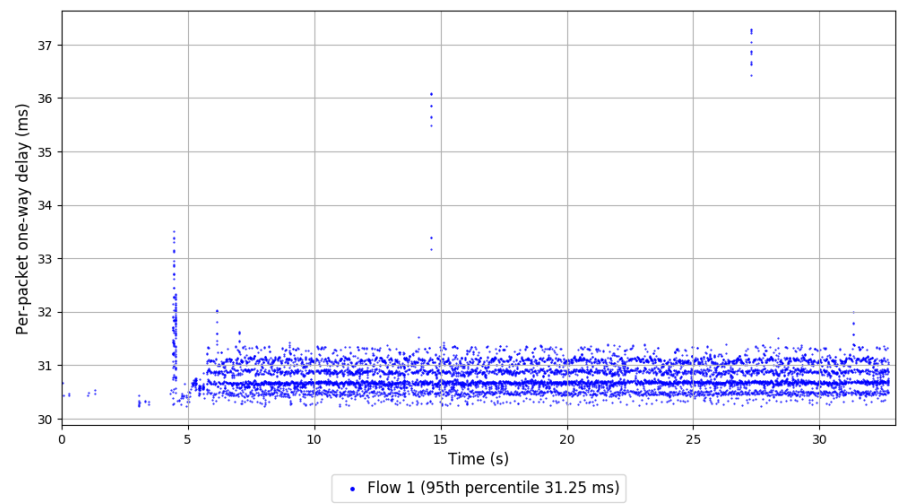
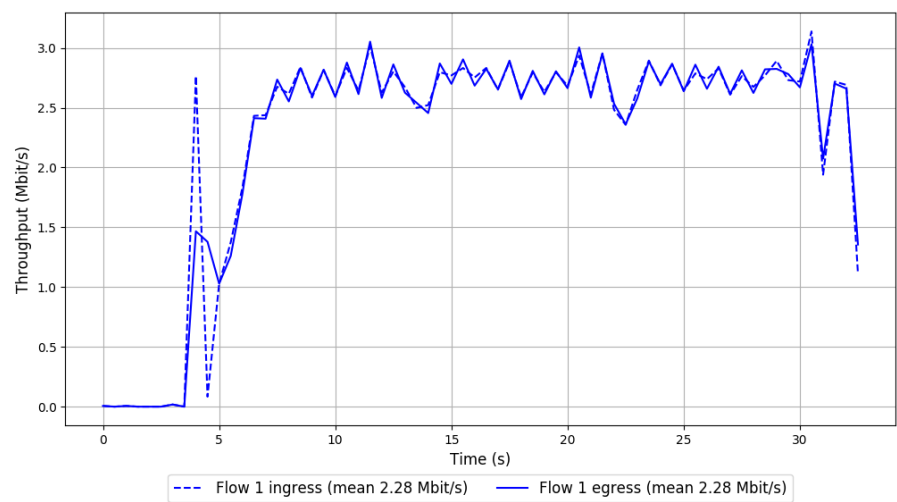
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 31.247 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-20 02:06:54

End at: 2018-02-20 02:07:24

Local clock offset: -5.03 ms

Remote clock offset: -2.912 ms

Below is generated by plot.py at 2018-02-20 06:53:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.69 Mbit/s

95th percentile per-packet one-way delay: 34.281 ms

Loss rate: 0.00%

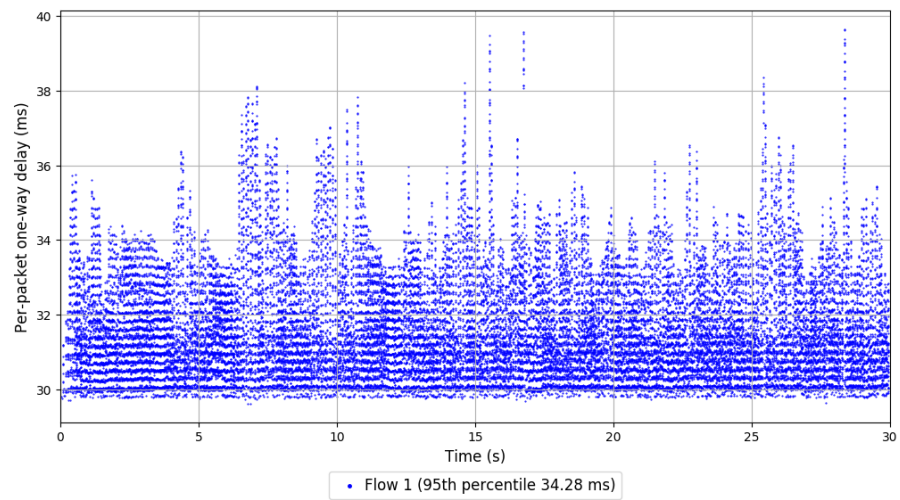
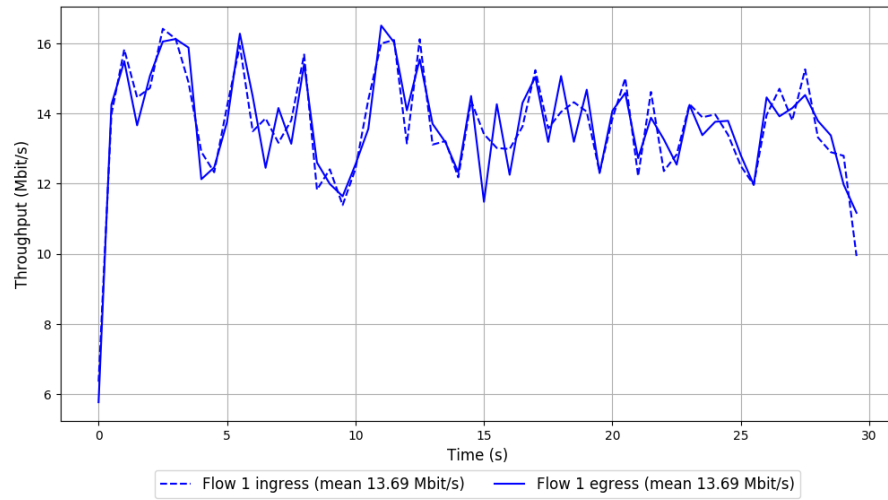
-- Flow 1:

Average throughput: 13.69 Mbit/s

95th percentile per-packet one-way delay: 34.281 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

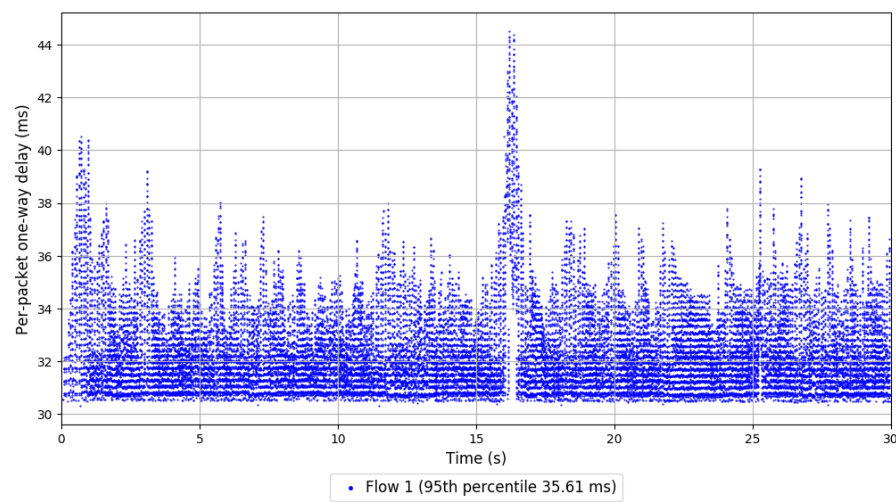
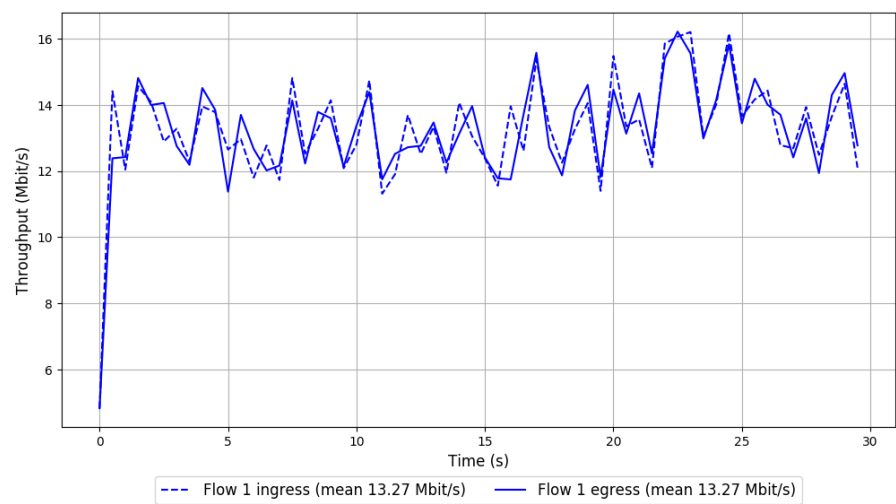


Run 2: Statistics of Sprout

Start at: 2018-02-20 02:38:44
End at: 2018-02-20 02:39:14
Local clock offset: -3.502 ms
Remote clock offset: -0.245 ms

Below is generated by plot.py at 2018-02-20 06:53:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.27 Mbit/s
95th percentile per-packet one-way delay: 35.612 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 13.27 Mbit/s
95th percentile per-packet one-way delay: 35.612 ms
Loss rate: 0.03%

Run 2: Report of Sprout — Data Link

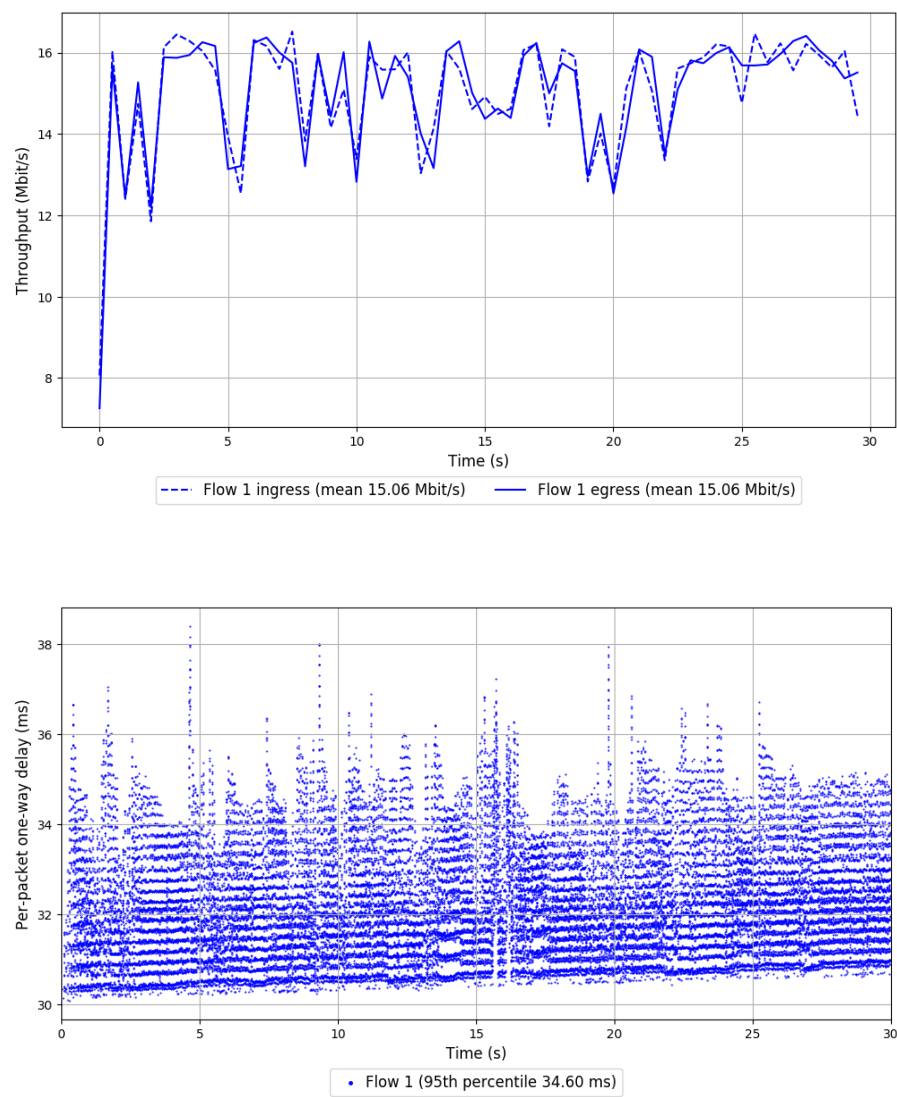


Run 3: Statistics of Sprout

Start at: 2018-02-20 03:07:58
End at: 2018-02-20 03:08:28
Local clock offset: 2.965 ms
Remote clock offset: -1.888 ms

Below is generated by plot.py at 2018-02-20 06:53:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 15.06 Mbit/s
95th percentile per-packet one-way delay: 34.603 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.06 Mbit/s
95th percentile per-packet one-way delay: 34.603 ms
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-20 03:36:33

End at: 2018-02-20 03:37:03

Local clock offset: 4.825 ms

Remote clock offset: -12.6 ms

Below is generated by plot.py at 2018-02-20 06:53:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.41 Mbit/s

95th percentile per-packet one-way delay: 32.386 ms

Loss rate: 0.00%

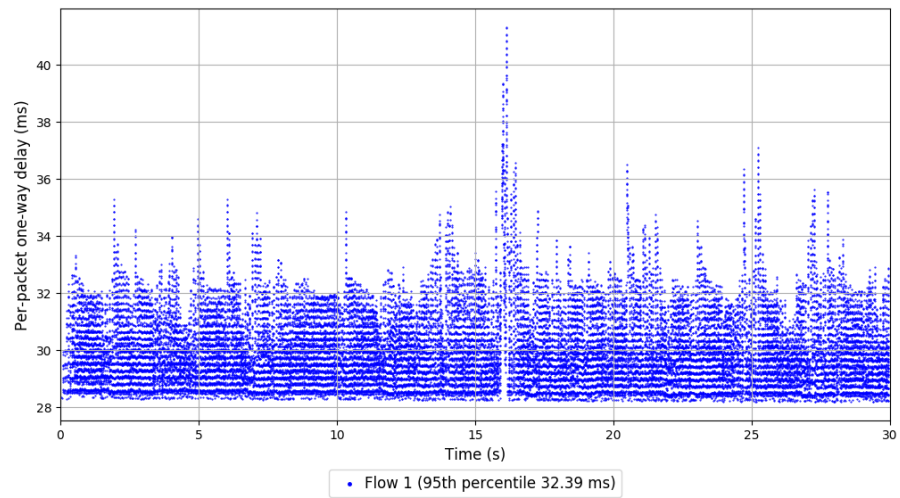
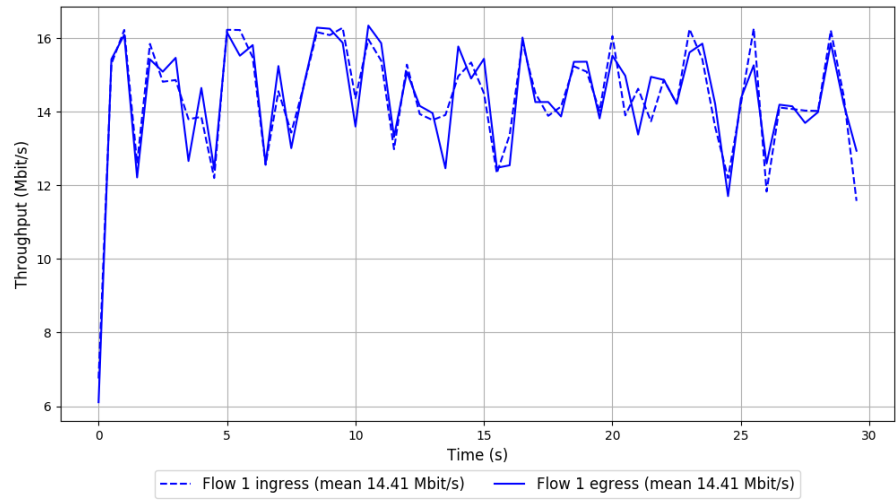
-- Flow 1:

Average throughput: 14.41 Mbit/s

95th percentile per-packet one-way delay: 32.386 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

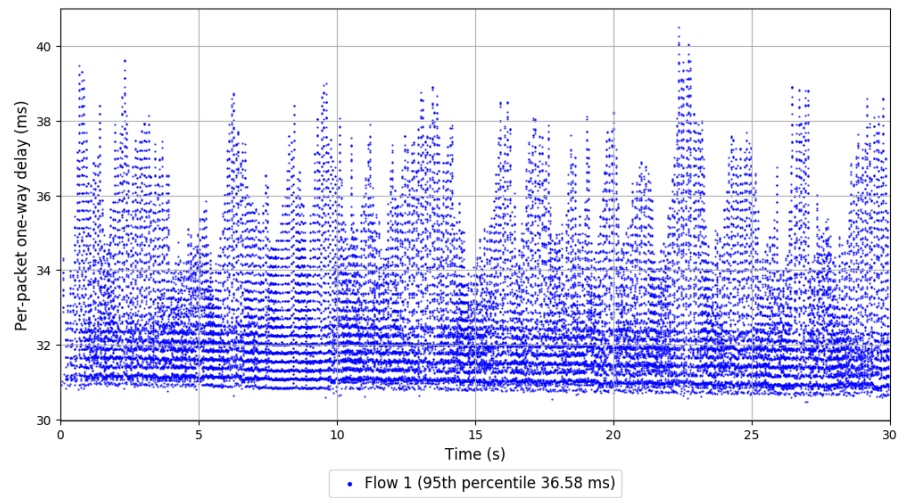
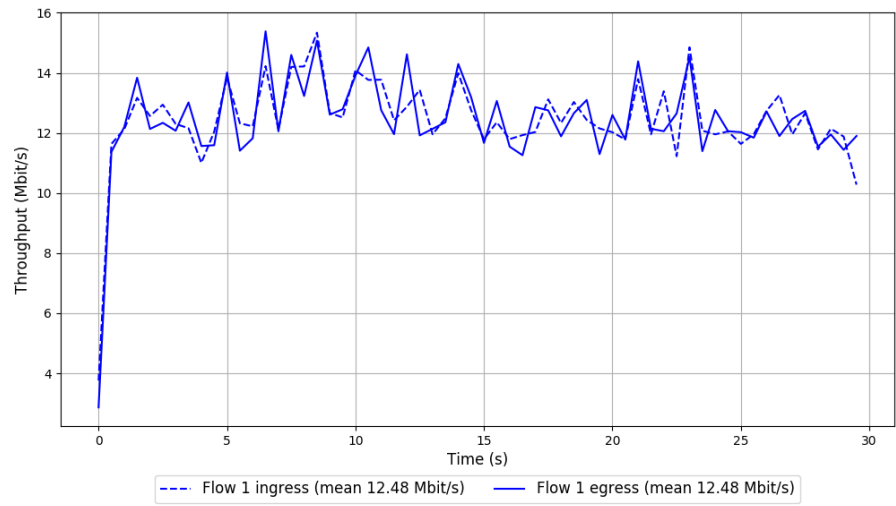


Run 5: Statistics of Sprout

Start at: 2018-02-20 04:05:32
End at: 2018-02-20 04:06:02
Local clock offset: 1.783 ms
Remote clock offset: -11.745 ms

Below is generated by plot.py at 2018-02-20 06:53:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.48 Mbit/s
95th percentile per-packet one-way delay: 36.577 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.48 Mbit/s
95th percentile per-packet one-way delay: 36.577 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

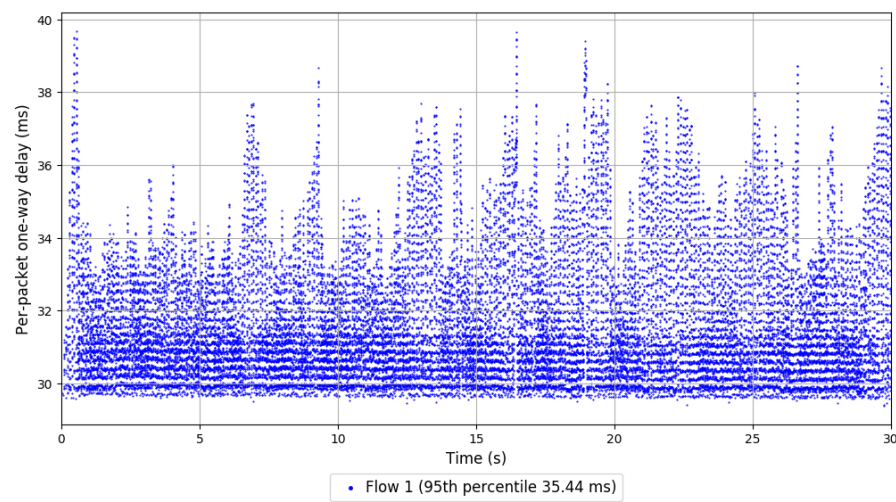
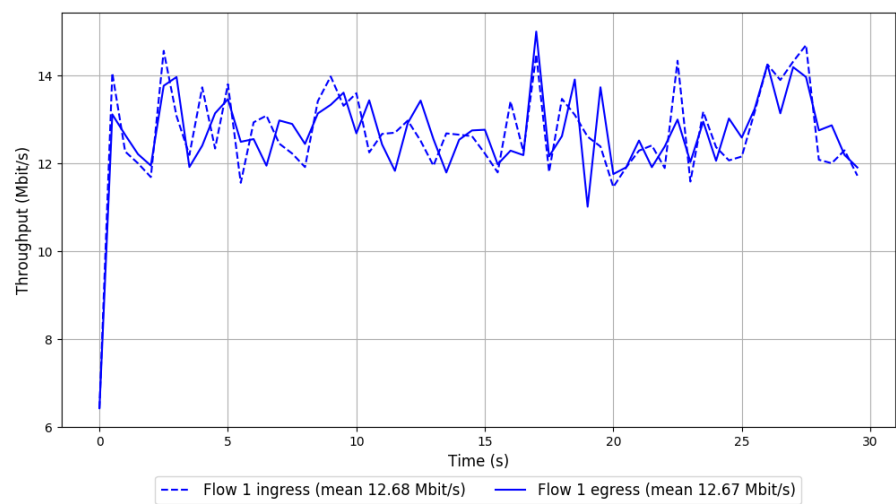


Run 6: Statistics of Sprout

Start at: 2018-02-20 04:33:52
End at: 2018-02-20 04:34:23
Local clock offset: -5.881 ms
Remote clock offset: -7.201 ms

Below is generated by plot.py at 2018-02-20 06:53:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.67 Mbit/s
95th percentile per-packet one-way delay: 35.444 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 12.67 Mbit/s
95th percentile per-packet one-way delay: 35.444 ms
Loss rate: 0.03%

Run 6: Report of Sprout — Data Link

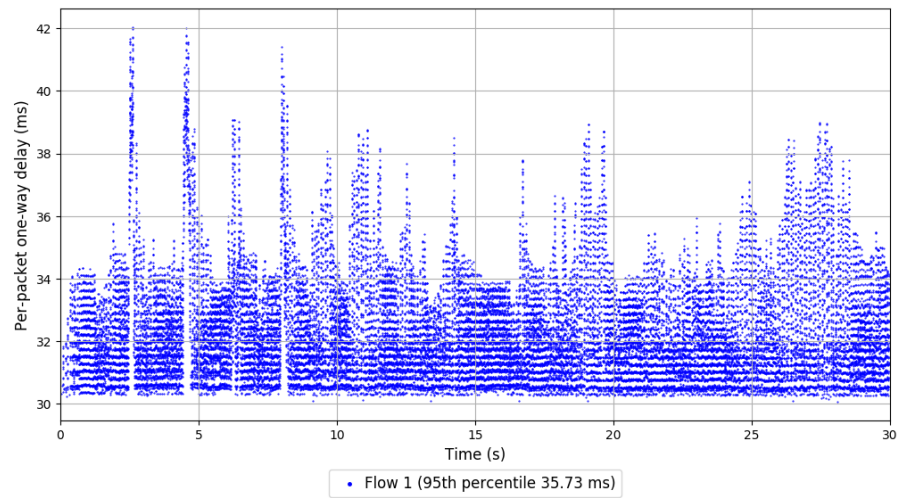
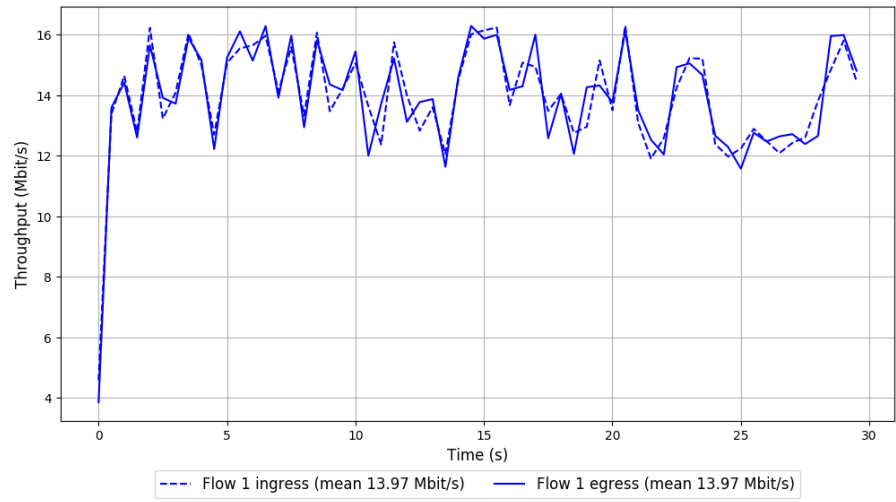


Run 7: Statistics of Sprout

Start at: 2018-02-20 05:01:11
End at: 2018-02-20 05:01:41
Local clock offset: 0.103 ms
Remote clock offset: -2.659 ms

Below is generated by plot.py at 2018-02-20 06:53:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.97 Mbit/s
95th percentile per-packet one-way delay: 35.727 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 13.97 Mbit/s
95th percentile per-packet one-way delay: 35.727 ms
Loss rate: 0.03%

Run 7: Report of Sprout — Data Link

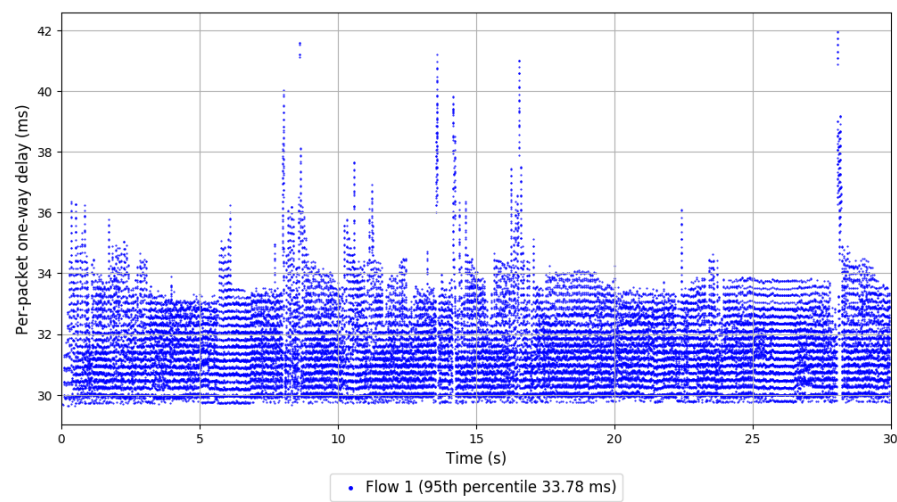
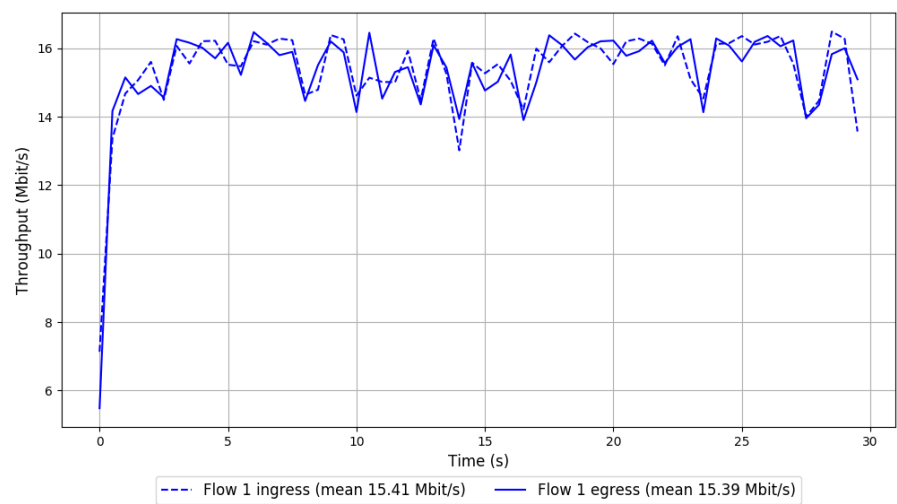


Run 8: Statistics of Sprout

Start at: 2018-02-20 05:30:10
End at: 2018-02-20 05:30:40
Local clock offset: 0.28 ms
Remote clock offset: -2.733 ms

Below is generated by plot.py at 2018-02-20 06:53:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 15.39 Mbit/s
95th percentile per-packet one-way delay: 33.783 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 15.39 Mbit/s
95th percentile per-packet one-way delay: 33.783 ms
Loss rate: 0.11%

Run 8: Report of Sprout — Data Link

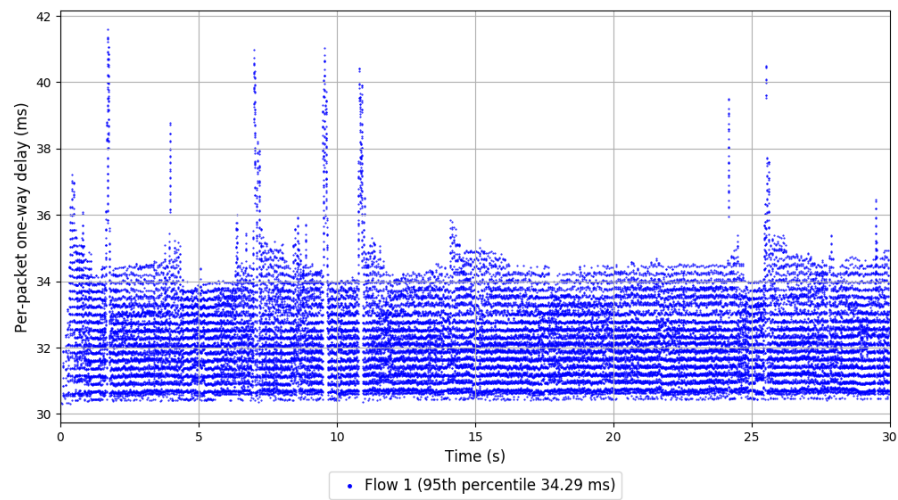
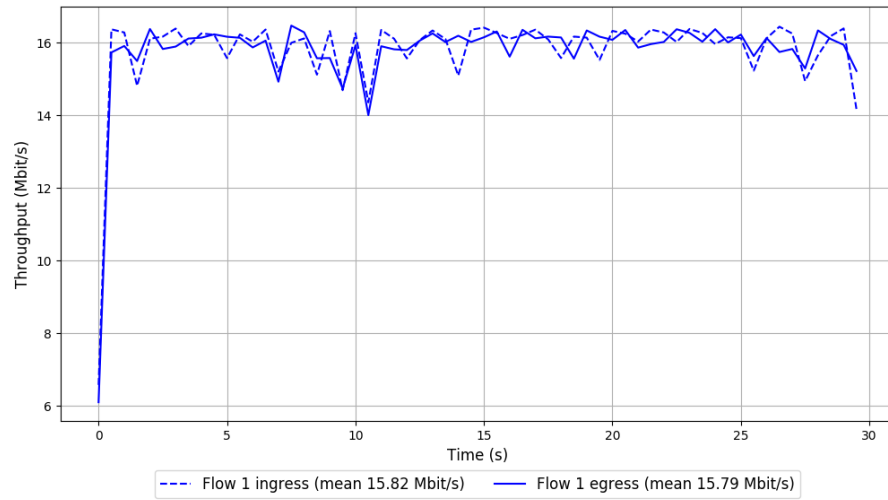


Run 9: Statistics of Sprout

Start at: 2018-02-20 05:55:07
End at: 2018-02-20 05:55:37
Local clock offset: 1.643 ms
Remote clock offset: -2.007 ms

Below is generated by plot.py at 2018-02-20 06:53:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 15.79 Mbit/s
95th percentile per-packet one-way delay: 34.294 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 15.79 Mbit/s
95th percentile per-packet one-way delay: 34.294 ms
Loss rate: 0.15%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-20 06:21:56

End at: 2018-02-20 06:22:26

Local clock offset: 3.695 ms

Remote clock offset: -1.385 ms

Below is generated by plot.py at 2018-02-20 06:53:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.13 Mbit/s

95th percentile per-packet one-way delay: 34.060 ms

Loss rate: 0.08%

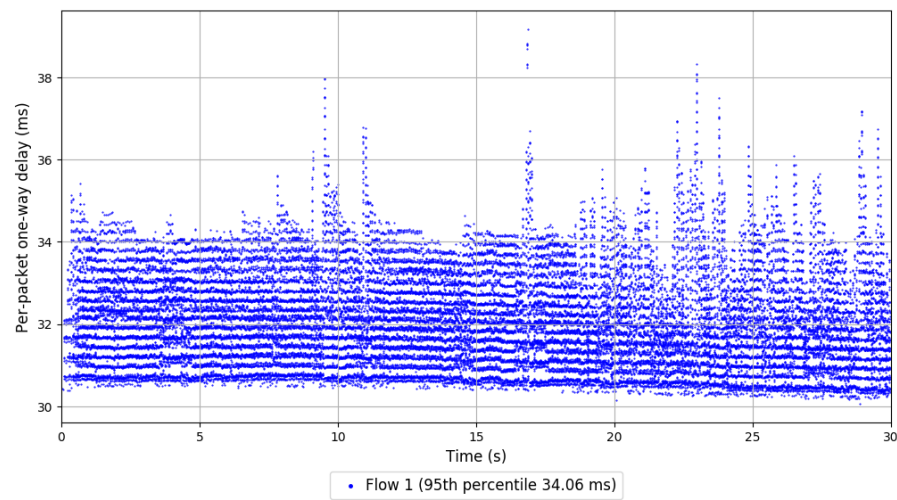
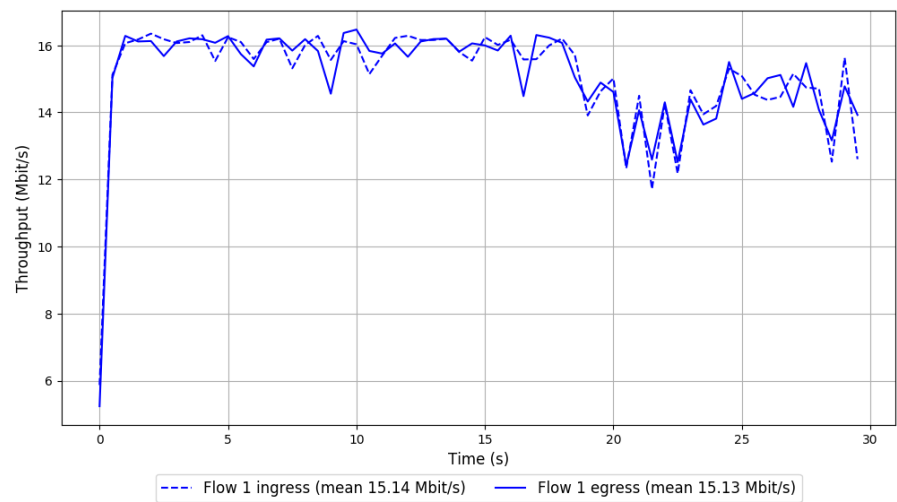
-- Flow 1:

Average throughput: 15.13 Mbit/s

95th percentile per-packet one-way delay: 34.060 ms

Loss rate: 0.08%

Run 10: Report of Sprout — Data Link

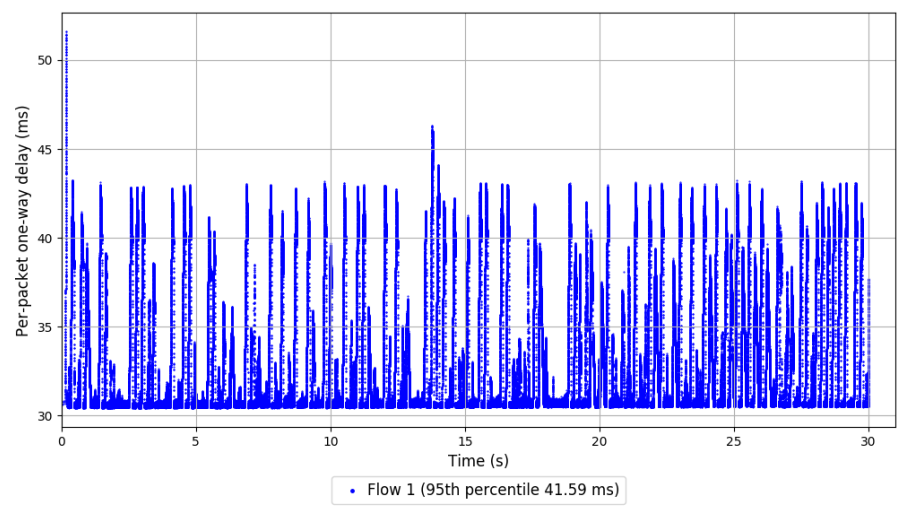
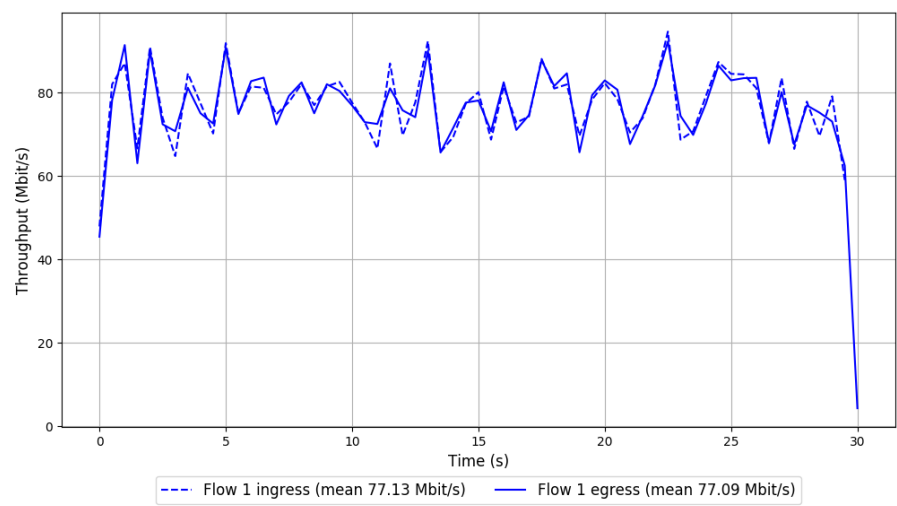


Run 1: Statistics of TaoVA-100x

Start at: 2018-02-20 01:55:57
End at: 2018-02-20 01:56:27
Local clock offset: -4.742 ms
Remote clock offset: -1.884 ms

Below is generated by plot.py at 2018-02-20 06:55:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.09 Mbit/s
95th percentile per-packet one-way delay: 41.594 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 77.09 Mbit/s
95th percentile per-packet one-way delay: 41.594 ms
Loss rate: 0.03%

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

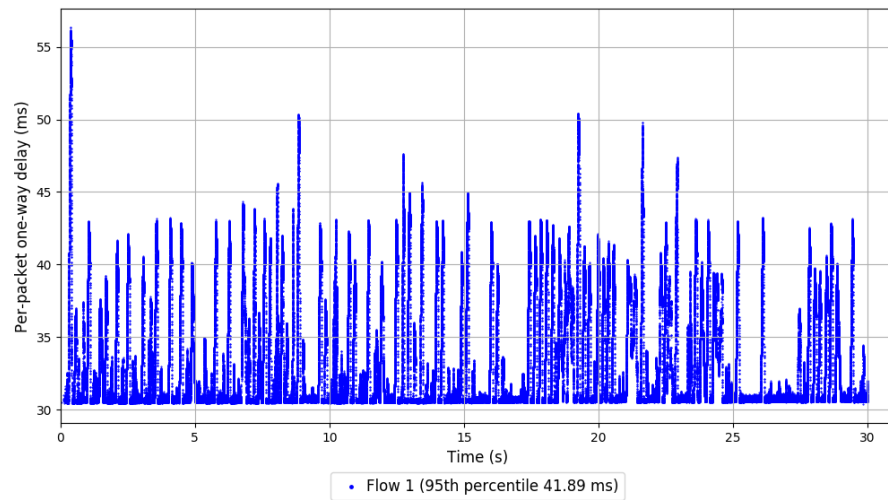
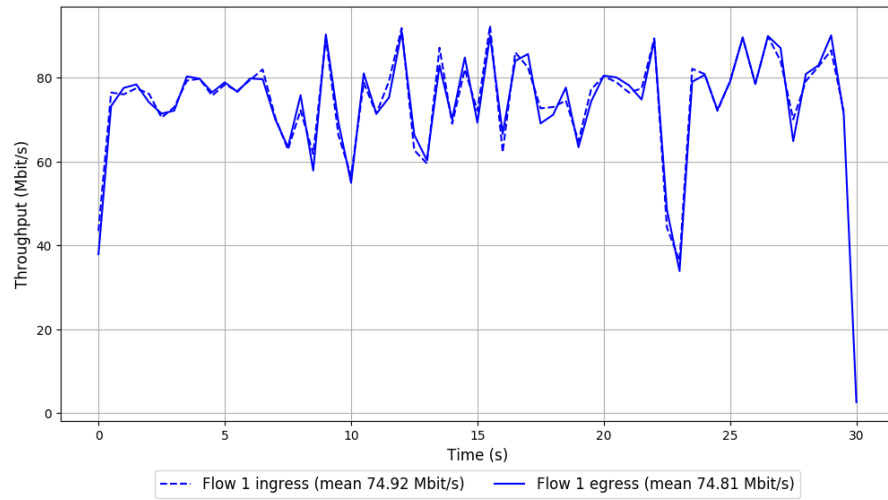


Run 2: Statistics of TaoVA-100x

Start at: 2018-02-20 02:25:20
End at: 2018-02-20 02:25:50
Local clock offset: -5.071 ms
Remote clock offset: -2.891 ms

Below is generated by plot.py at 2018-02-20 06:55:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 74.81 Mbit/s
95th percentile per-packet one-way delay: 41.886 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 74.81 Mbit/s
95th percentile per-packet one-way delay: 41.886 ms
Loss rate: 0.15%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-02-20 02:57:19

End at: 2018-02-20 02:57:49

Local clock offset: -2.941 ms

Remote clock offset: 1.756 ms

Below is generated by plot.py at 2018-02-20 06:55:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.02 Mbit/s

95th percentile per-packet one-way delay: 41.940 ms

Loss rate: 0.06%

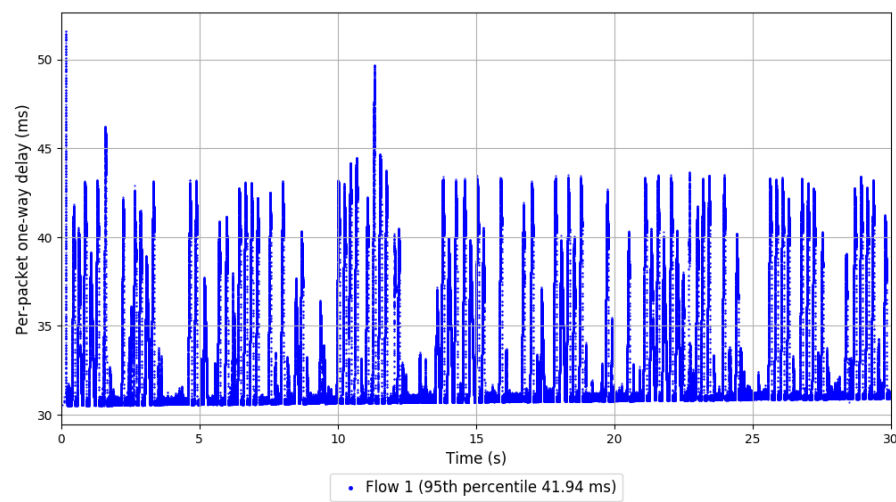
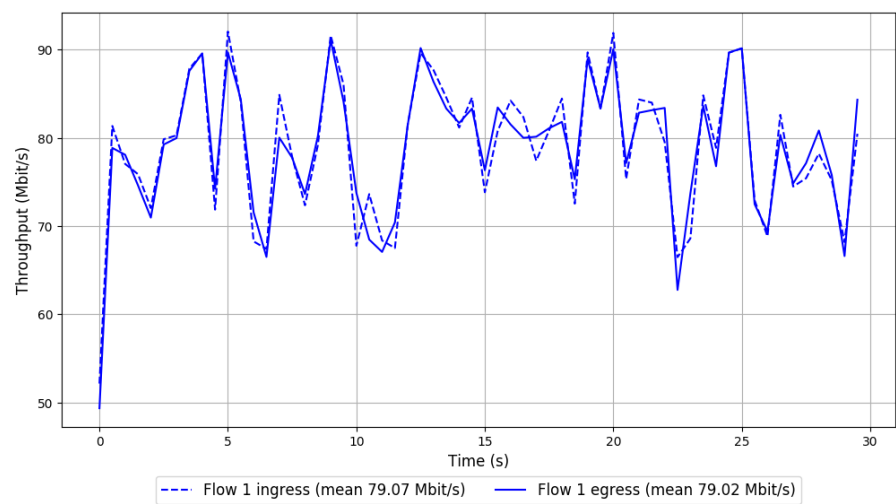
-- Flow 1:

Average throughput: 79.02 Mbit/s

95th percentile per-packet one-way delay: 41.940 ms

Loss rate: 0.06%

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

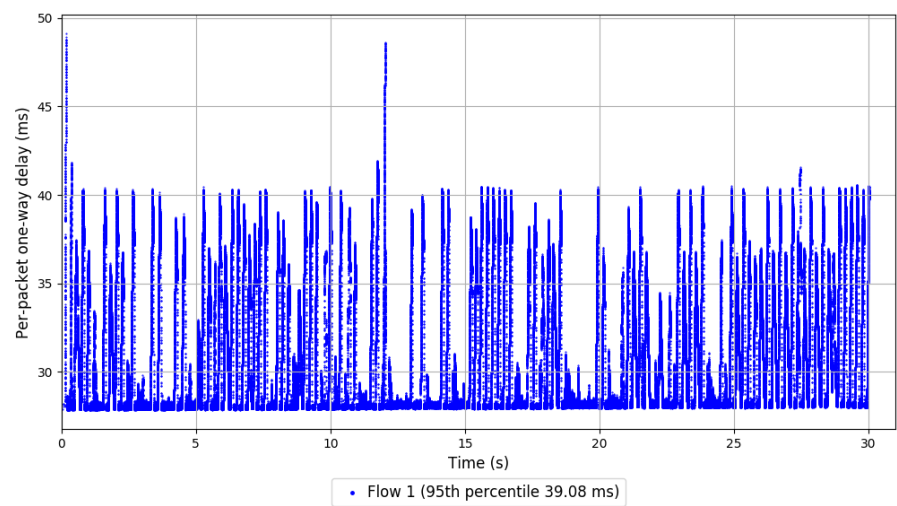
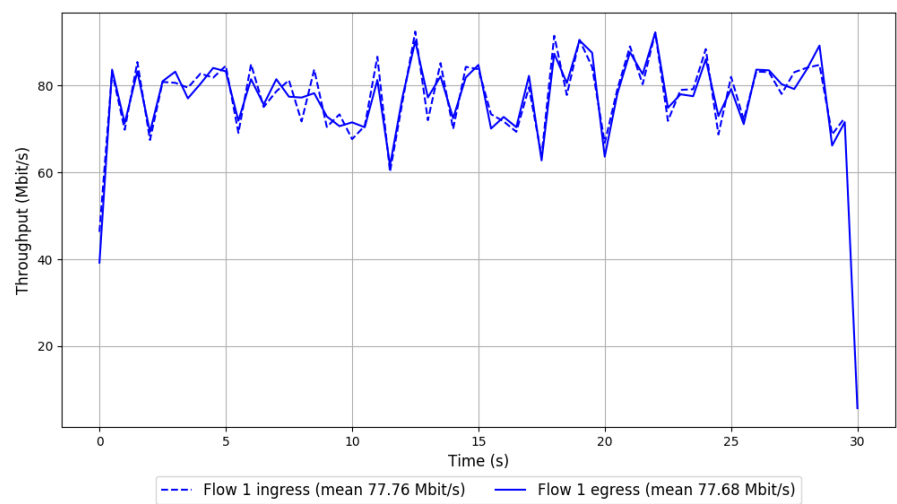


Run 4: Statistics of TaoVA-100x

Start at: 2018-02-20 03:26:04
End at: 2018-02-20 03:26:34
Local clock offset: 6.806 ms
Remote clock offset: -10.892 ms

Below is generated by plot.py at 2018-02-20 06:55:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.68 Mbit/s
95th percentile per-packet one-way delay: 39.077 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 77.68 Mbit/s
95th percentile per-packet one-way delay: 39.077 ms
Loss rate: 0.07%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-20 03:54:31

End at: 2018-02-20 03:55:01

Local clock offset: 1.949 ms

Remote clock offset: -13.345 ms

Below is generated by plot.py at 2018-02-20 06:55:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.11 Mbit/s

95th percentile per-packet one-way delay: 39.579 ms

Loss rate: 0.18%

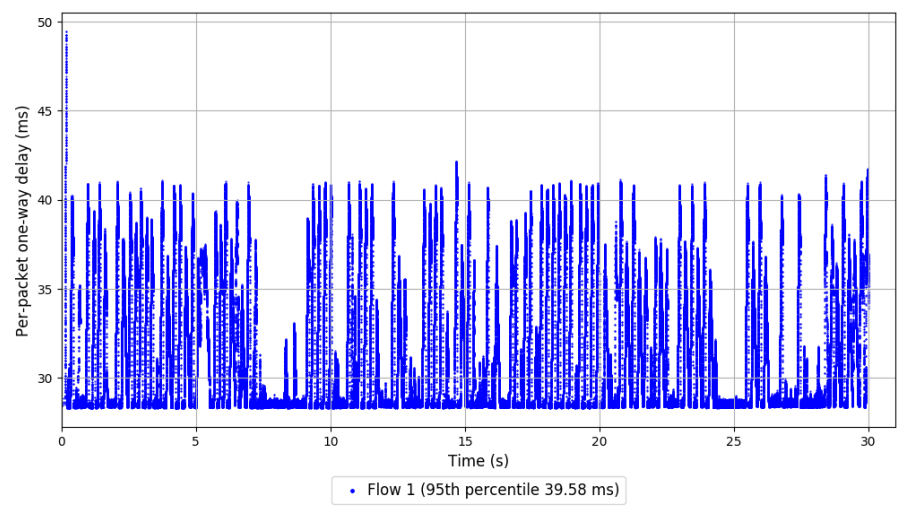
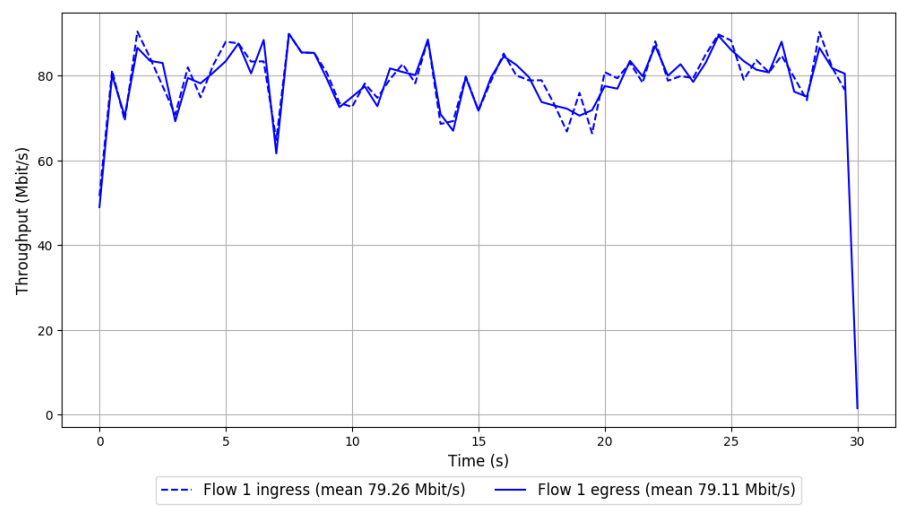
-- Flow 1:

Average throughput: 79.11 Mbit/s

95th percentile per-packet one-way delay: 39.579 ms

Loss rate: 0.18%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-20 04:24:04

End at: 2018-02-20 04:24:34

Local clock offset: -4.456 ms

Remote clock offset: -7.872 ms

Below is generated by plot.py at 2018-02-20 06:55:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.51 Mbit/s

95th percentile per-packet one-way delay: 41.799 ms

Loss rate: 0.09%

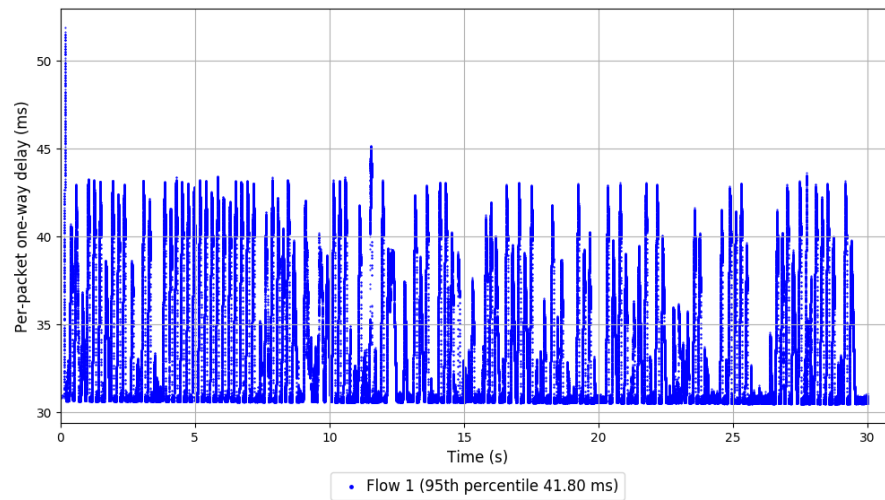
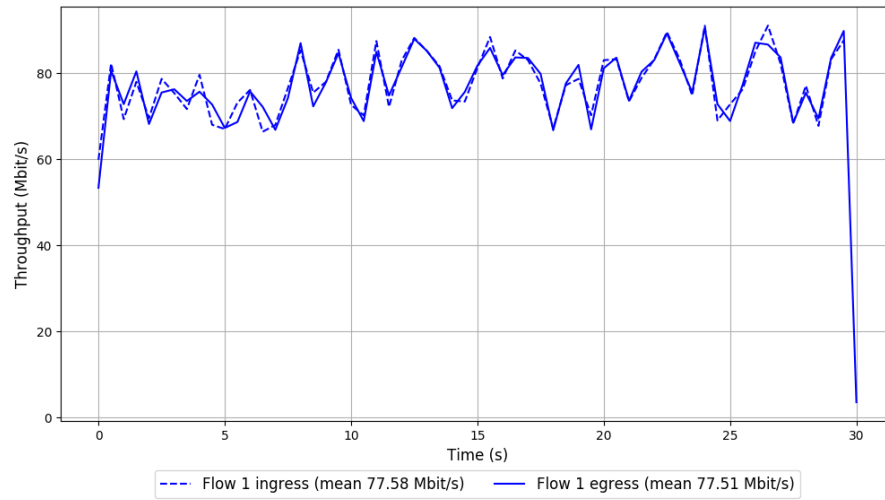
-- Flow 1:

Average throughput: 77.51 Mbit/s

95th percentile per-packet one-way delay: 41.799 ms

Loss rate: 0.09%

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

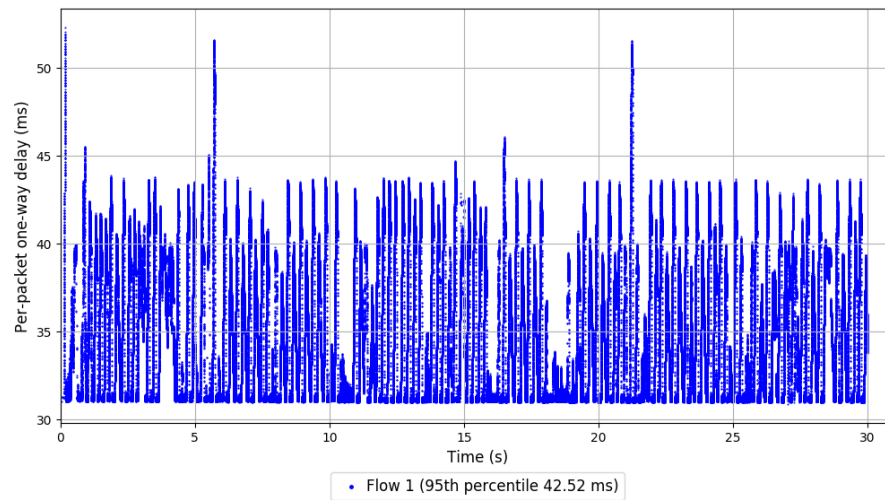
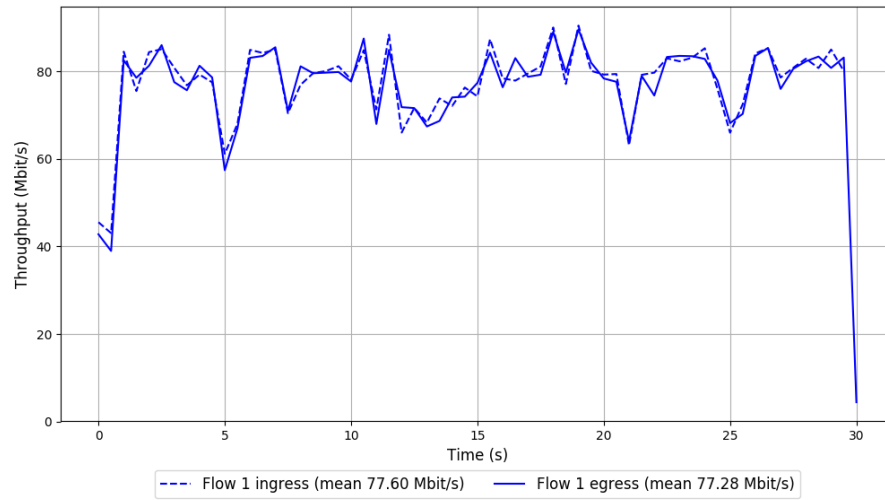


Run 7: Statistics of TaoVA-100x

Start at: 2018-02-20 04:51:43
End at: 2018-02-20 04:52:13
Local clock offset: -1.34 ms
Remote clock offset: -4.271 ms

Below is generated by plot.py at 2018-02-20 06:55:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.28 Mbit/s
95th percentile per-packet one-way delay: 42.524 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 77.28 Mbit/s
95th percentile per-packet one-way delay: 42.524 ms
Loss rate: 0.40%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-20 05:19:35

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

Local clock offset: 0.363 ms

Remote clock offset: 0.352 ms

Below is generated by plot.py at 2018-02-20 06:55:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.17 Mbit/s

95th percentile per-packet one-way delay: 38.334 ms

Loss rate: 0.02%

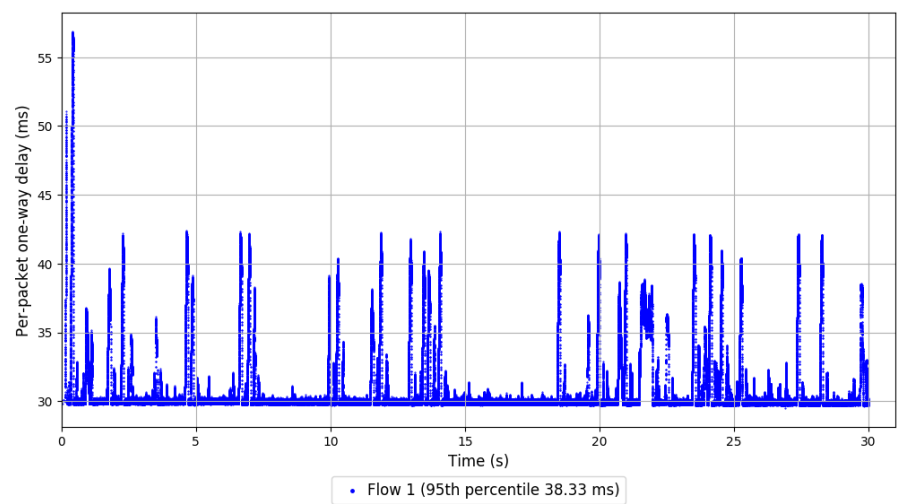
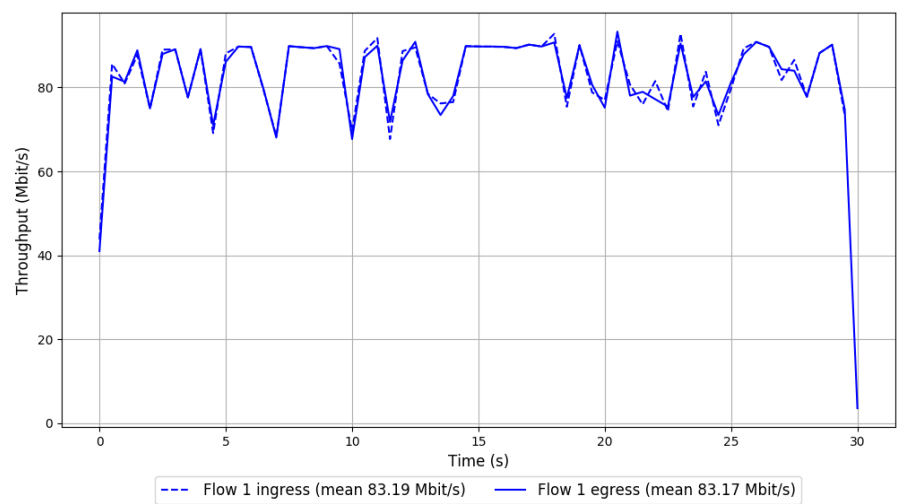
-- Flow 1:

Average throughput: 83.17 Mbit/s

95th percentile per-packet one-way delay: 38.334 ms

Loss rate: 0.02%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-20 05:46:57

End at: 2018-02-20 05:47:27

Local clock offset: 0.167 ms

Remote clock offset: -4.902 ms

Below is generated by plot.py at 2018-02-20 06:57:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.39 Mbit/s

95th percentile per-packet one-way delay: 40.258 ms

Loss rate: 0.24%

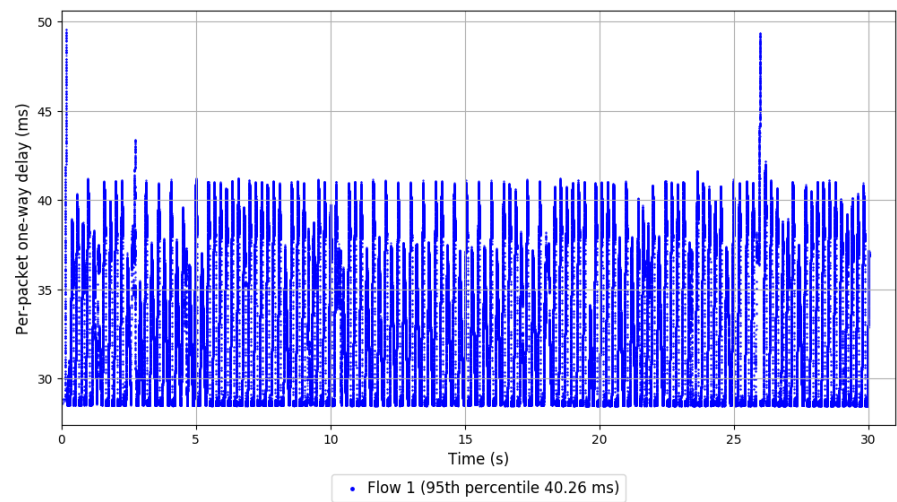
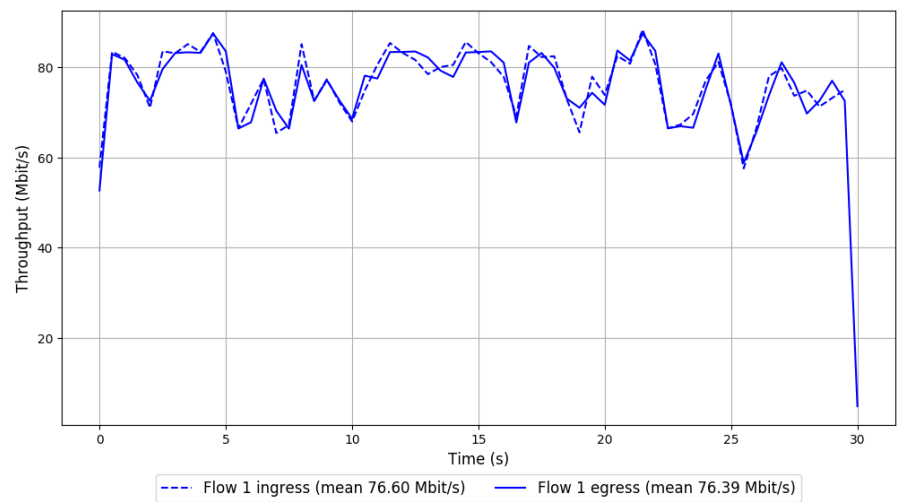
-- Flow 1:

Average throughput: 76.39 Mbit/s

95th percentile per-packet one-way delay: 40.258 ms

Loss rate: 0.24%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-02-20 06:12:23

End at: 2018-02-20 06:12:53

Local clock offset: 3.189 ms

Remote clock offset: -1.743 ms

Below is generated by plot.py at 2018-02-20 06:57:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.70 Mbit/s

95th percentile per-packet one-way delay: 41.058 ms

Loss rate: 0.34%

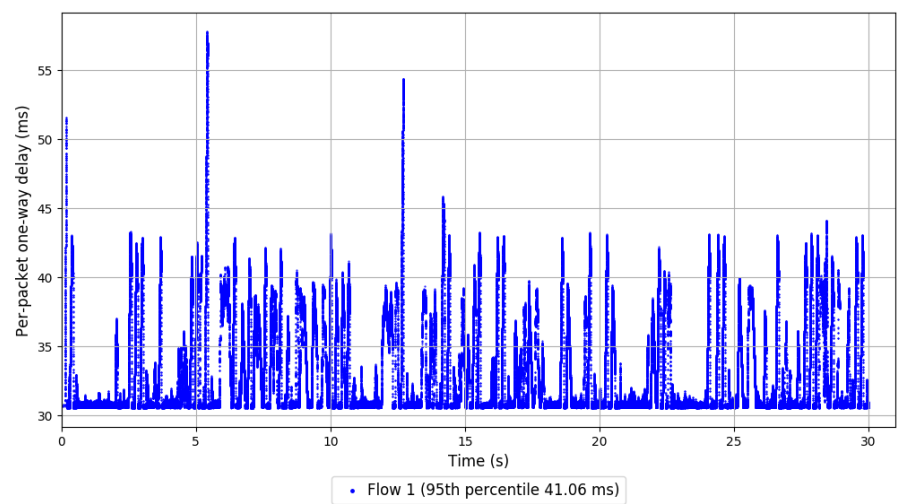
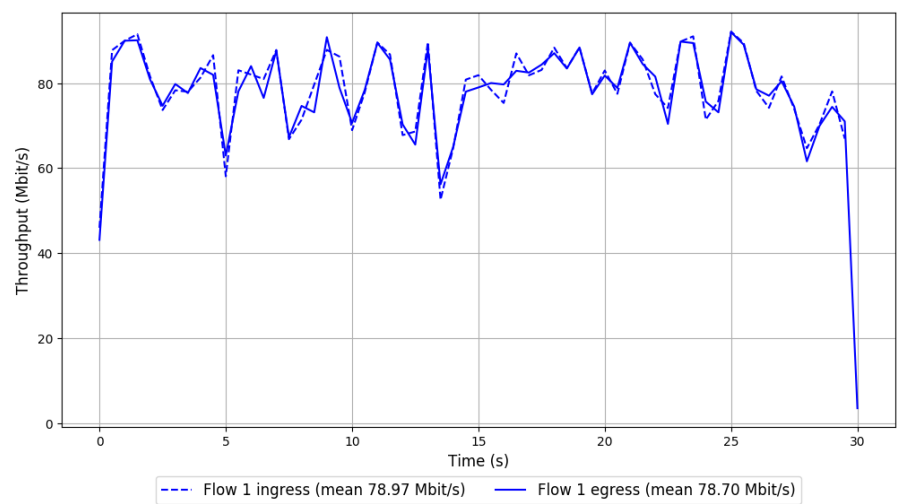
-- Flow 1:

Average throughput: 78.70 Mbit/s

95th percentile per-packet one-way delay: 41.058 ms

Loss rate: 0.34%

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

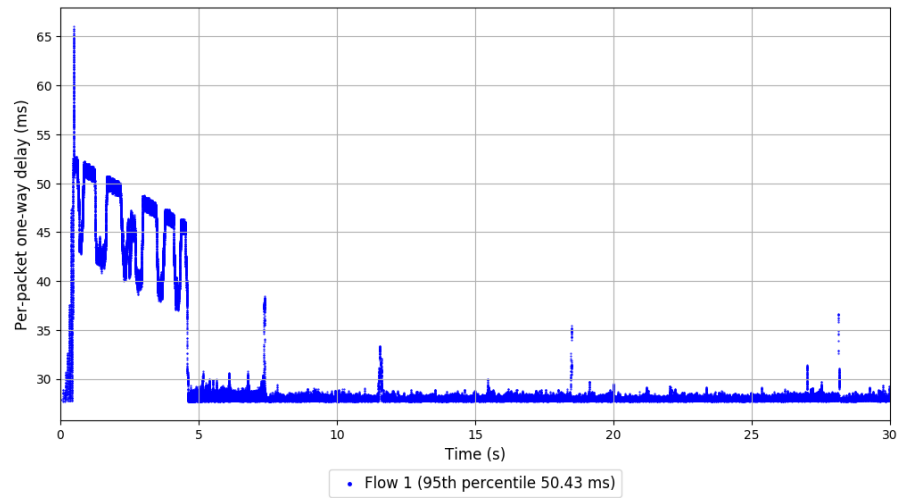
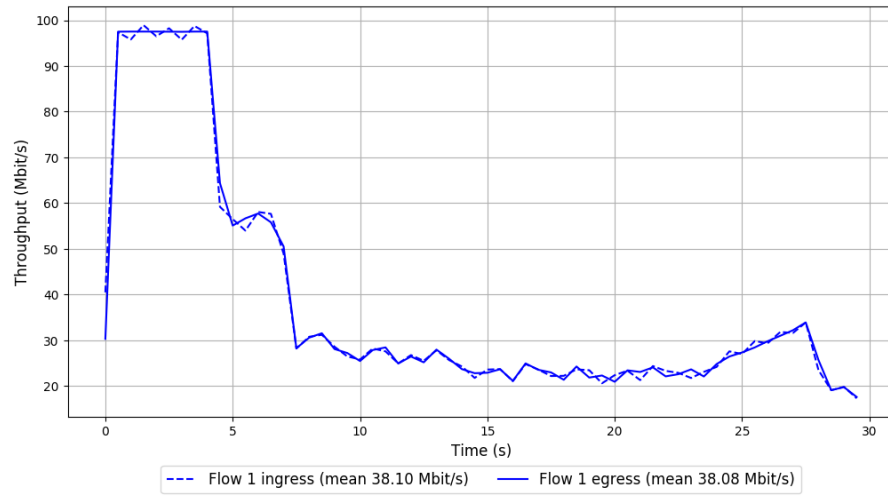


Run 1: Statistics of TCP Vegas

Start at: 2018-02-20 02:08:15
End at: 2018-02-20 02:08:45
Local clock offset: -5.181 ms
Remote clock offset: -5.138 ms

Below is generated by plot.py at 2018-02-20 06:57:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 38.08 Mbit/s
95th percentile per-packet one-way delay: 50.432 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 38.08 Mbit/s
95th percentile per-packet one-way delay: 50.432 ms
Loss rate: 0.05%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-20 02:40:05

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

Local clock offset: -3.47 ms

Remote clock offset: 0.437 ms

Below is generated by plot.py at 2018-02-20 06:57:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.75 Mbit/s

95th percentile per-packet one-way delay: 31.141 ms

Loss rate: 0.07%

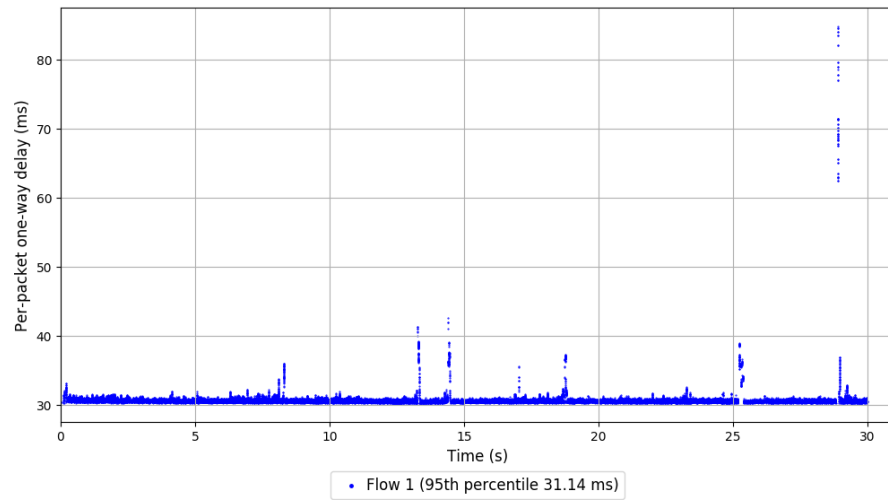
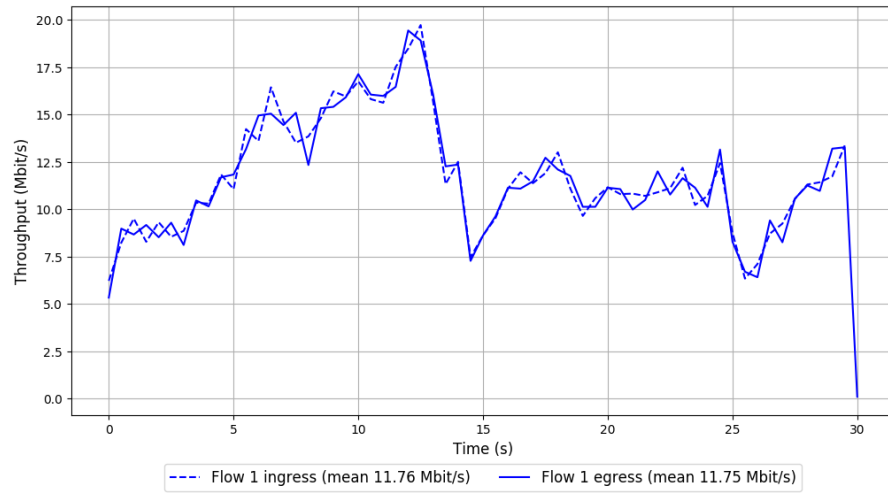
-- Flow 1:

Average throughput: 11.75 Mbit/s

95th percentile per-packet one-way delay: 31.141 ms

Loss rate: 0.07%

Run 2: Report of TCP Vegas — Data Link

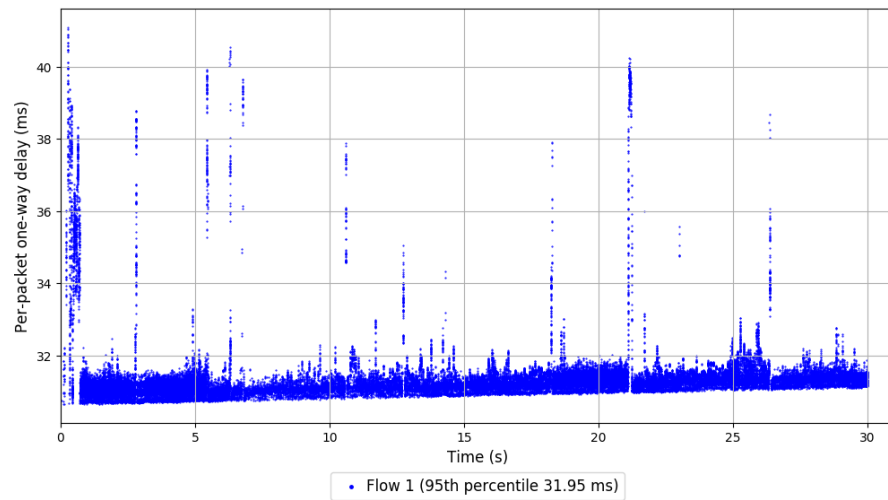
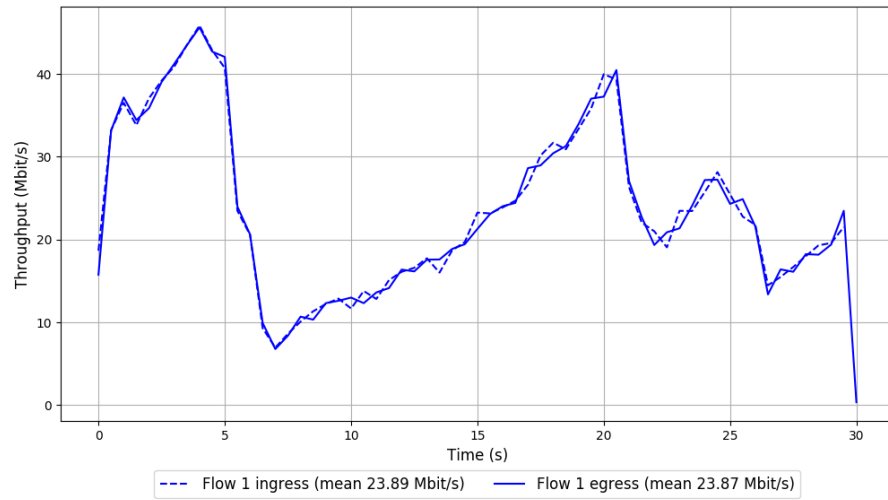


Run 3: Statistics of TCP Vegas

Start at: 2018-02-20 03:09:16
End at: 2018-02-20 03:09:46
Local clock offset: 3.45 ms
Remote clock offset: -2.213 ms

Below is generated by plot.py at 2018-02-20 06:57:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 23.87 Mbit/s
95th percentile per-packet one-way delay: 31.948 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 23.87 Mbit/s
95th percentile per-packet one-way delay: 31.948 ms
Loss rate: 0.07%

Run 3: Report of TCP Vegas — Data Link

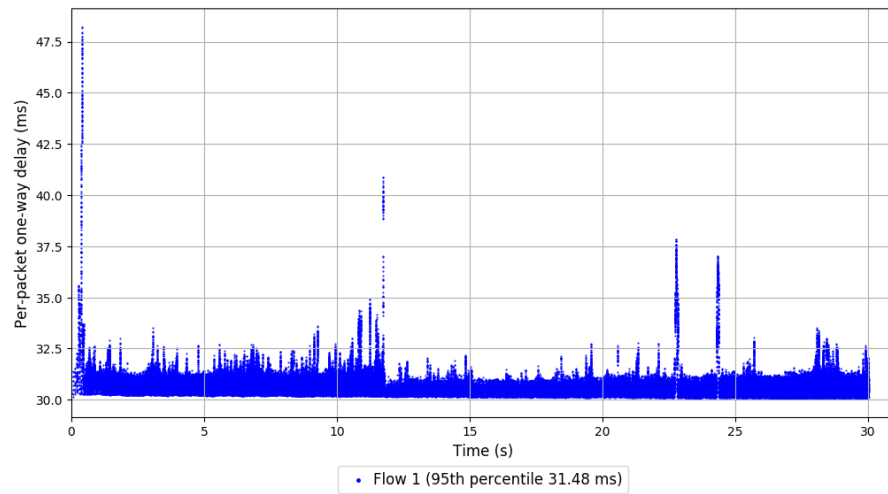
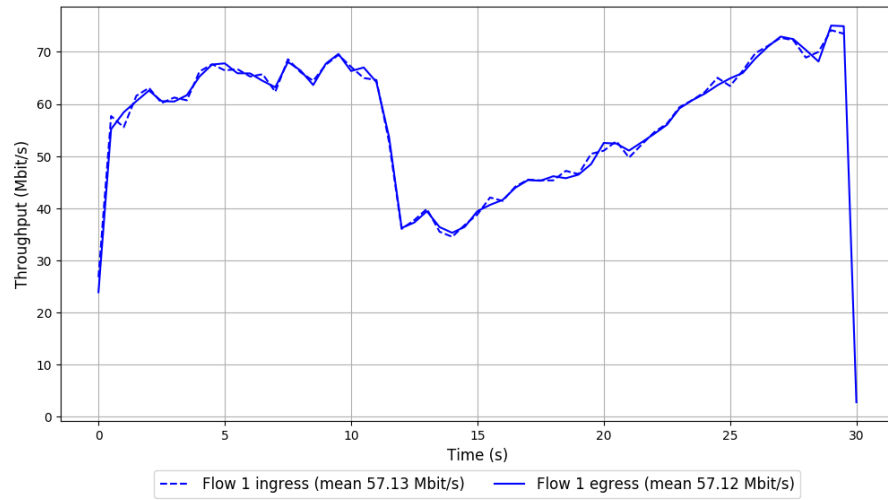


Run 4: Statistics of TCP Vegas

Start at: 2018-02-20 03:37:52
End at: 2018-02-20 03:38:22
Local clock offset: 4.464 ms
Remote clock offset: -10.703 ms

Below is generated by plot.py at 2018-02-20 06:57:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 57.12 Mbit/s
95th percentile per-packet one-way delay: 31.478 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 57.12 Mbit/s
95th percentile per-packet one-way delay: 31.478 ms
Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link

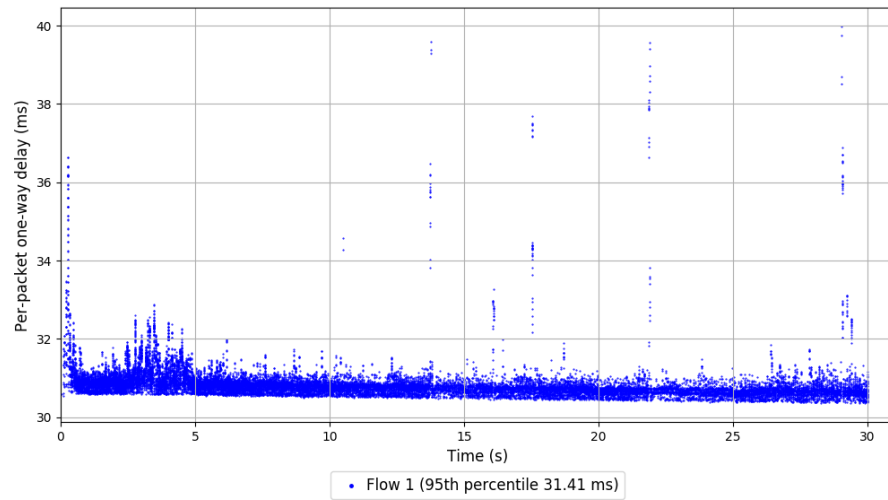
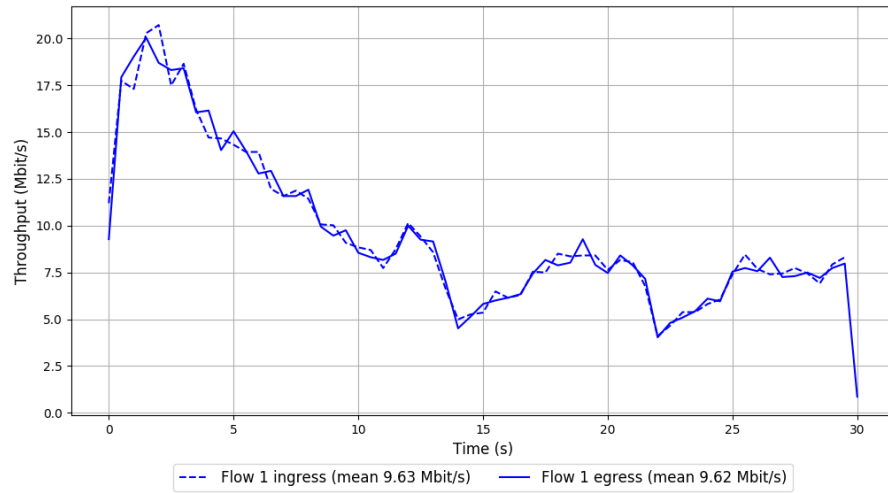


Run 5: Statistics of TCP Vegas

Start at: 2018-02-20 04:06:55
End at: 2018-02-20 04:07:25
Local clock offset: 1.232 ms
Remote clock offset: -11.831 ms

Below is generated by plot.py at 2018-02-20 06:57:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.62 Mbit/s
95th percentile per-packet one-way delay: 31.407 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 9.62 Mbit/s
95th percentile per-packet one-way delay: 31.407 ms
Loss rate: 0.02%

Run 5: Report of TCP Vegas — Data Link

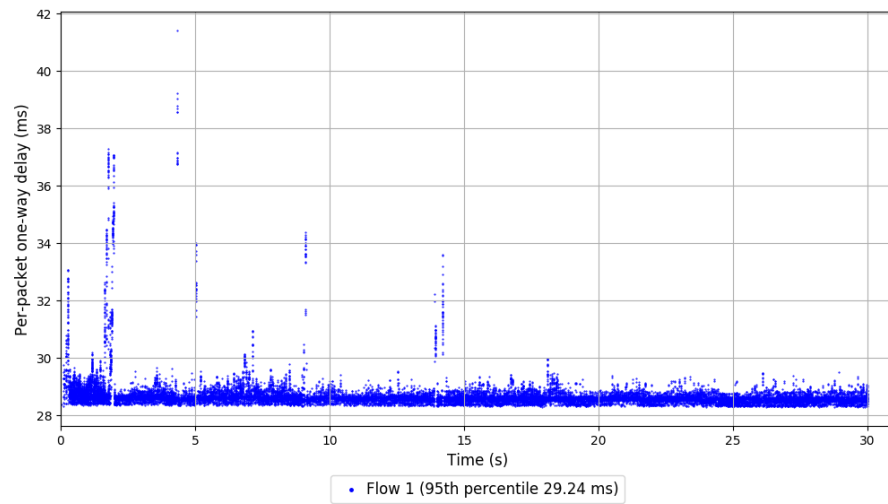
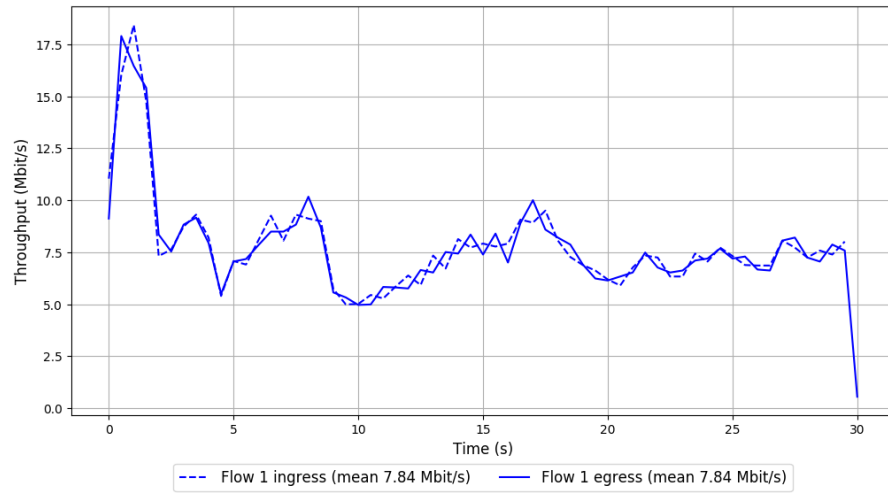


Run 6: Statistics of TCP Vegas

Start at: 2018-02-20 04:35:14
End at: 2018-02-20 04:35:44
Local clock offset: -6.029 ms
Remote clock offset: -9.097 ms

Below is generated by plot.py at 2018-02-20 06:57:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.84 Mbit/s
95th percentile per-packet one-way delay: 29.240 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 7.84 Mbit/s
95th percentile per-packet one-way delay: 29.240 ms
Loss rate: 0.11%

Run 6: Report of TCP Vegas — Data Link

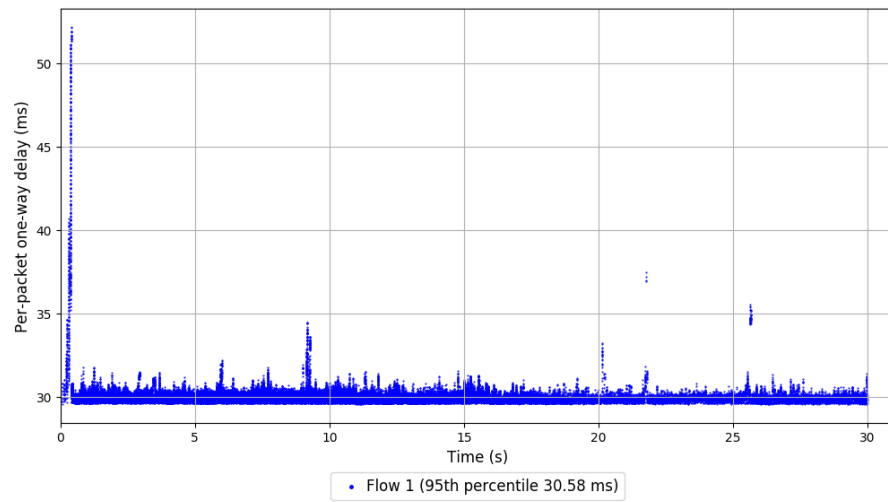
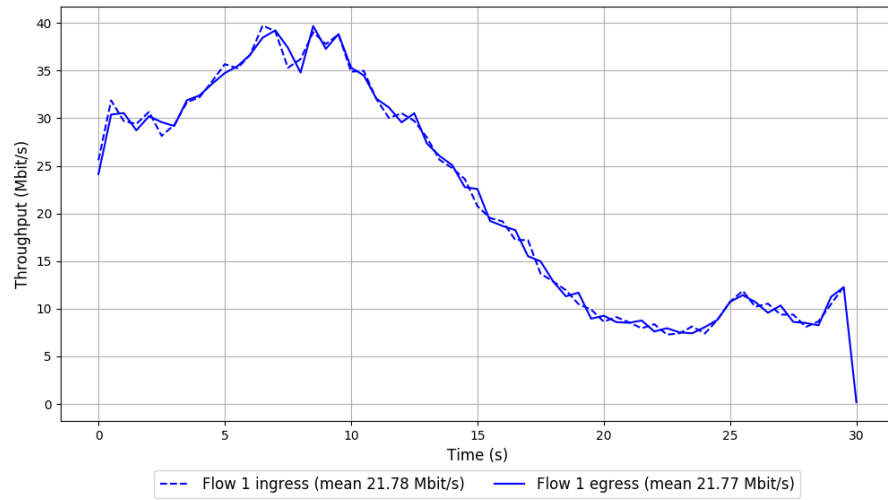


Run 7: Statistics of TCP Vegas

Start at: 2018-02-20 05:02:30
End at: 2018-02-20 05:03:00
Local clock offset: 0.182 ms
Remote clock offset: -2.387 ms

Below is generated by plot.py at 2018-02-20 06:57:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 21.77 Mbit/s
95th percentile per-packet one-way delay: 30.576 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 21.77 Mbit/s
95th percentile per-packet one-way delay: 30.576 ms
Loss rate: 0.03%

Run 7: Report of TCP Vegas — Data Link

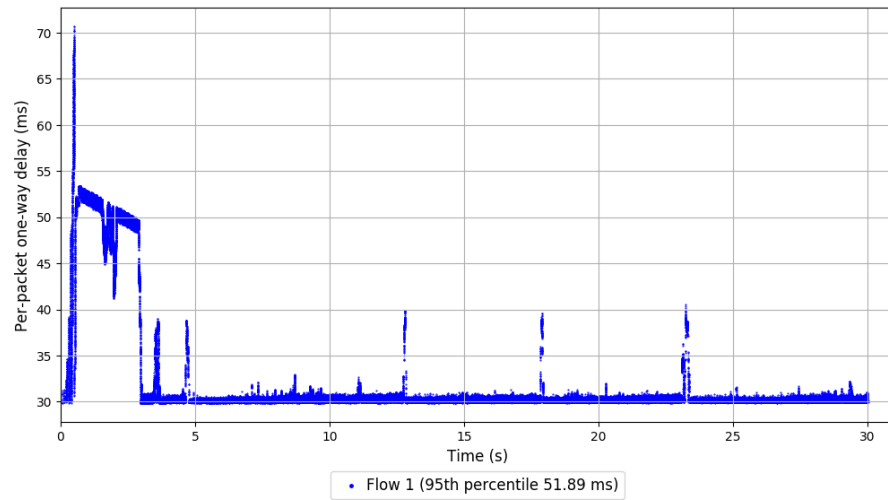
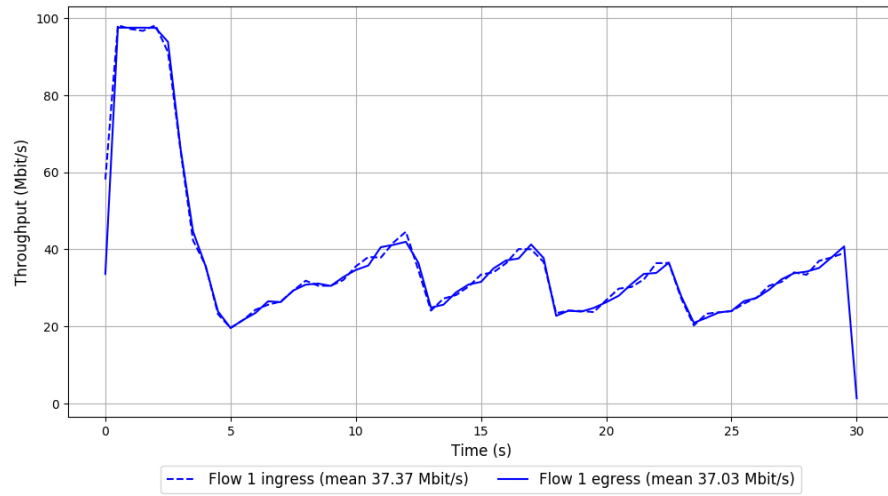


Run 8: Statistics of TCP Vegas

Start at: 2018-02-20 05:31:29
End at: 2018-02-20 05:31:59
Local clock offset: 0.183 ms
Remote clock offset: -2.795 ms

Below is generated by plot.py at 2018-02-20 06:57:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 37.03 Mbit/s
95th percentile per-packet one-way delay: 51.888 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 37.03 Mbit/s
95th percentile per-packet one-way delay: 51.888 ms
Loss rate: 0.91%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-20 05:56:24

End at: 2018-02-20 05:56:54

Local clock offset: 1.946 ms

Remote clock offset: -2.54 ms

Below is generated by plot.py at 2018-02-20 06:57:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.31 Mbit/s

95th percentile per-packet one-way delay: 53.413 ms

Loss rate: 0.08%

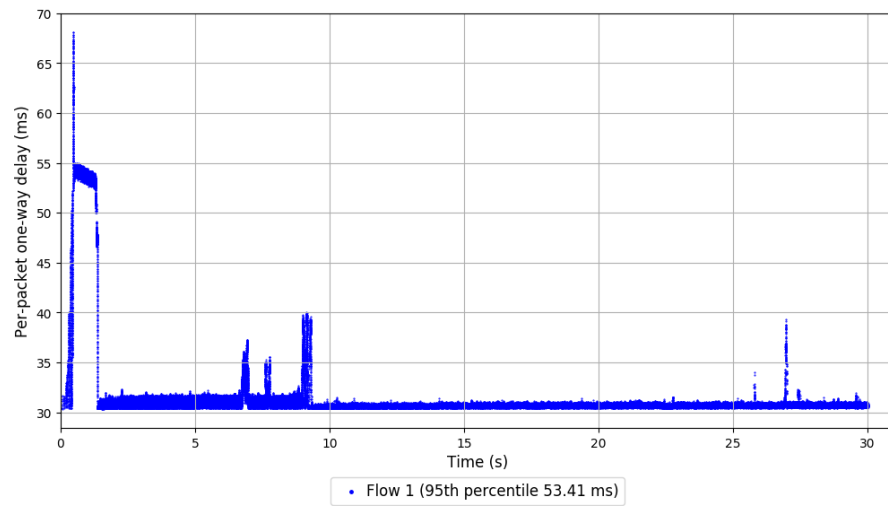
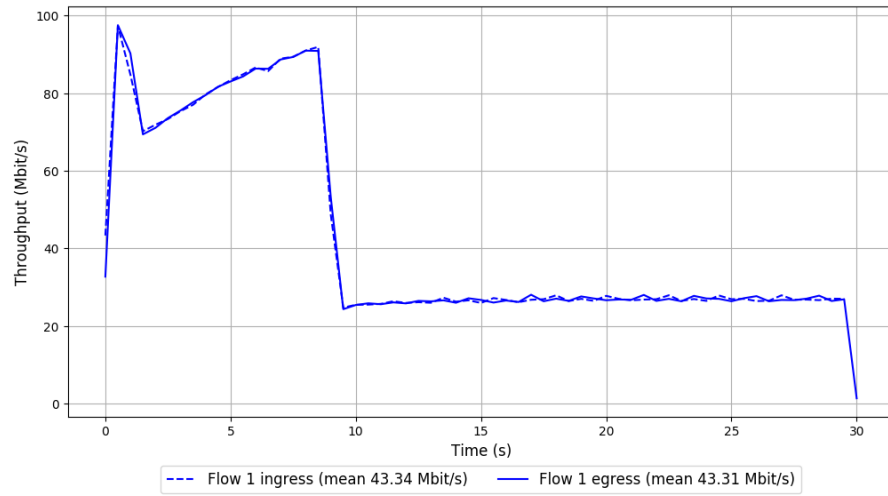
-- Flow 1:

Average throughput: 43.31 Mbit/s

95th percentile per-packet one-way delay: 53.413 ms

Loss rate: 0.08%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-20 06:23:12

End at: 2018-02-20 06:23:42

Local clock offset: 3.273 ms

Remote clock offset: -3.408 ms

Below is generated by plot.py at 2018-02-20 06:57:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.87 Mbit/s

95th percentile per-packet one-way delay: 50.454 ms

Loss rate: 0.06%

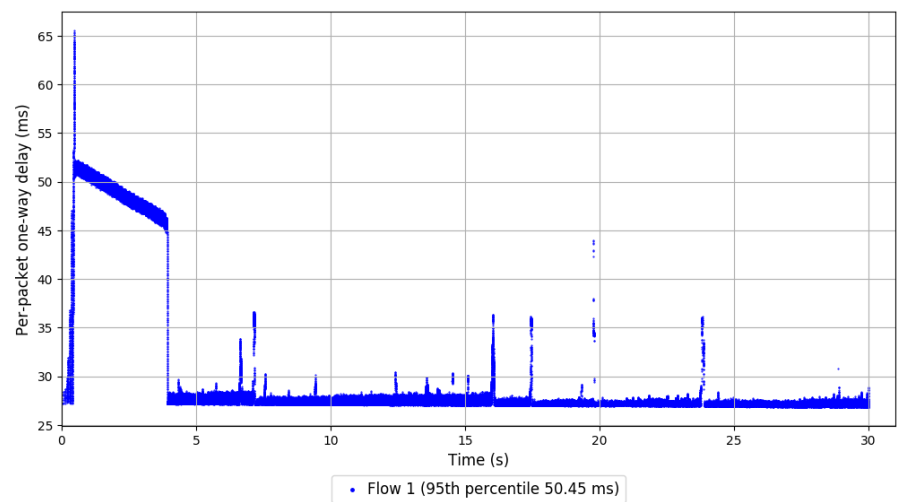
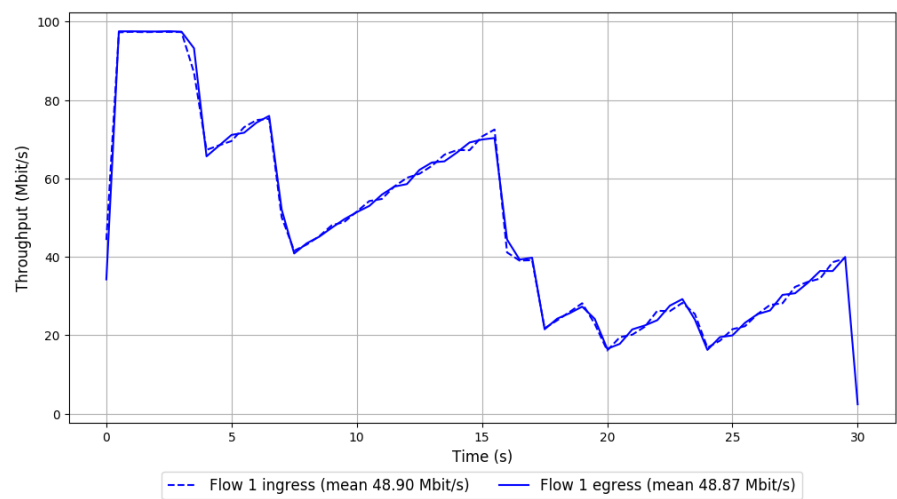
-- Flow 1:

Average throughput: 48.87 Mbit/s

95th percentile per-packet one-way delay: 50.454 ms

Loss rate: 0.06%

Run 10: Report of TCP Vegas — Data Link

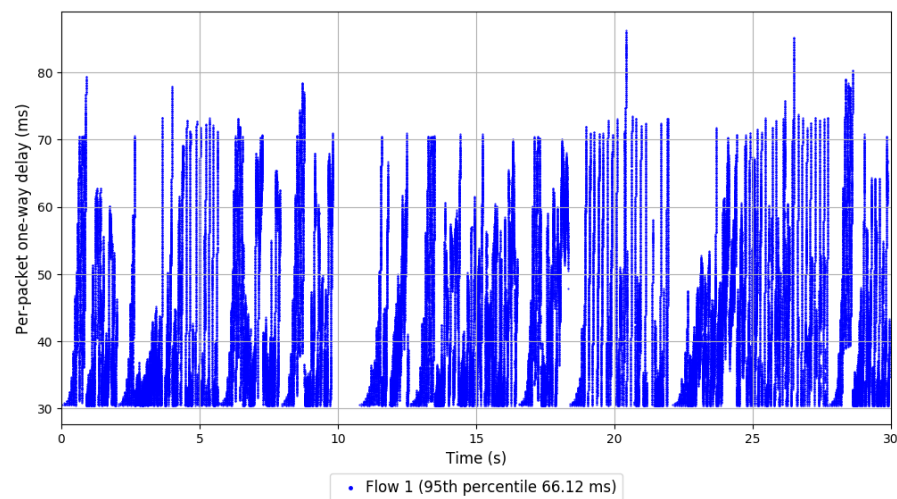
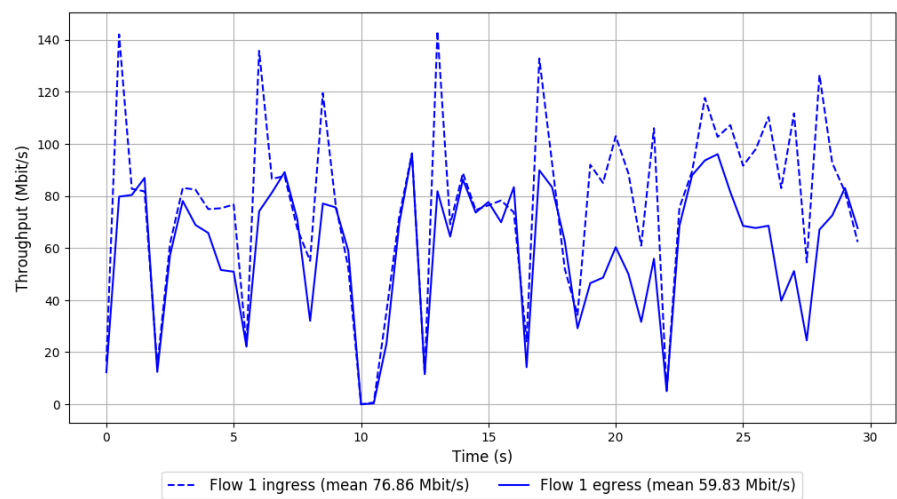


Run 1: Statistics of Verus

Start at: 2018-02-20 01:51:17
End at: 2018-02-20 01:51:47
Local clock offset: -4.495 ms
Remote clock offset: -1.857 ms

Below is generated by plot.py at 2018-02-20 06:57:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 59.83 Mbit/s
95th percentile per-packet one-way delay: 66.119 ms
Loss rate: 22.14%
-- Flow 1:
Average throughput: 59.83 Mbit/s
95th percentile per-packet one-way delay: 66.119 ms
Loss rate: 22.14%

Run 1: Report of Verus — Data Link

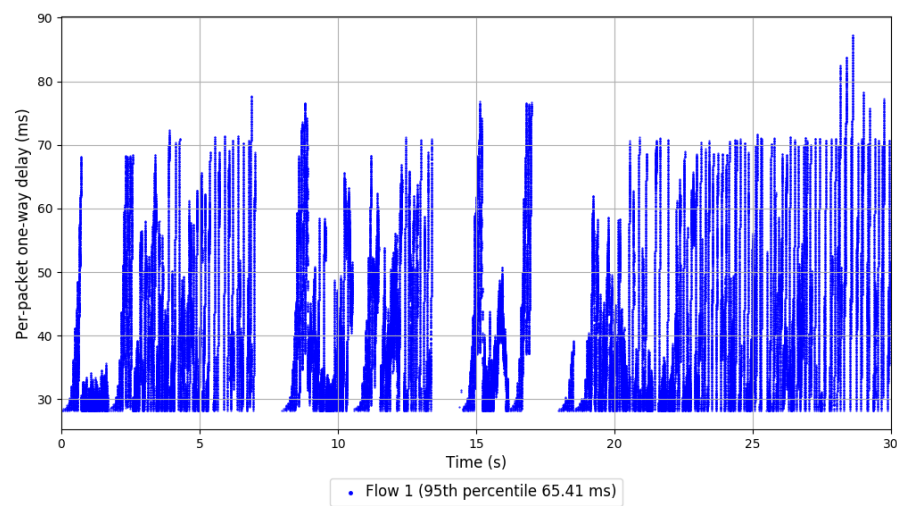
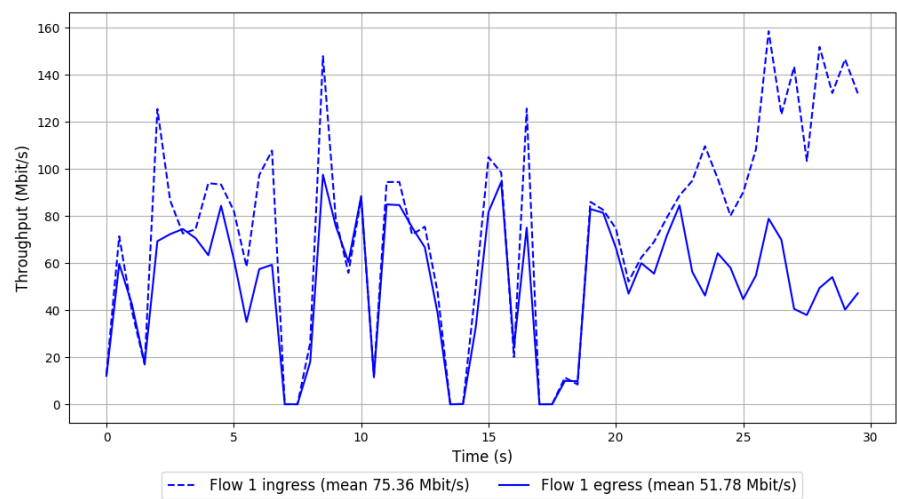


Run 2: Statistics of Verus

Start at: 2018-02-20 02:20:44
End at: 2018-02-20 02:21:14
Local clock offset: -5.429 ms
Remote clock offset: -5.135 ms

Below is generated by plot.py at 2018-02-20 06:57:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 51.78 Mbit/s
95th percentile per-packet one-way delay: 65.412 ms
Loss rate: 31.23%
-- Flow 1:
Average throughput: 51.78 Mbit/s
95th percentile per-packet one-way delay: 65.412 ms
Loss rate: 31.23%

Run 2: Report of Verus — Data Link

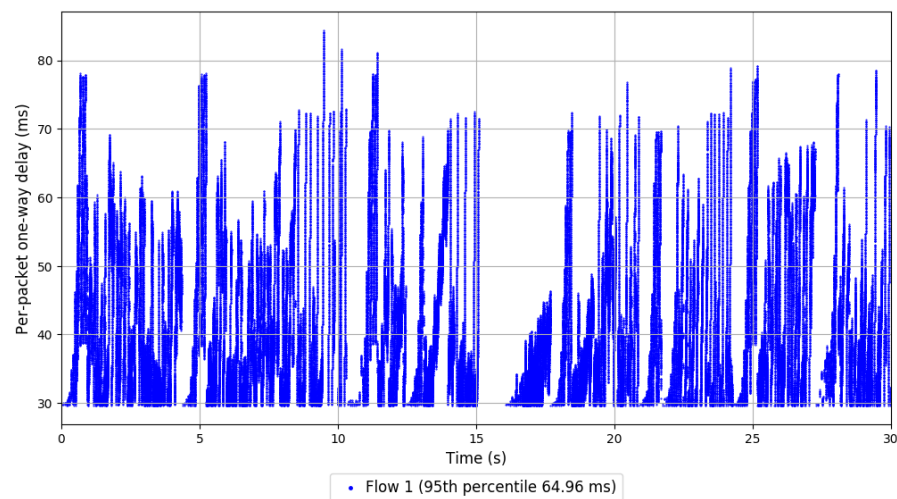
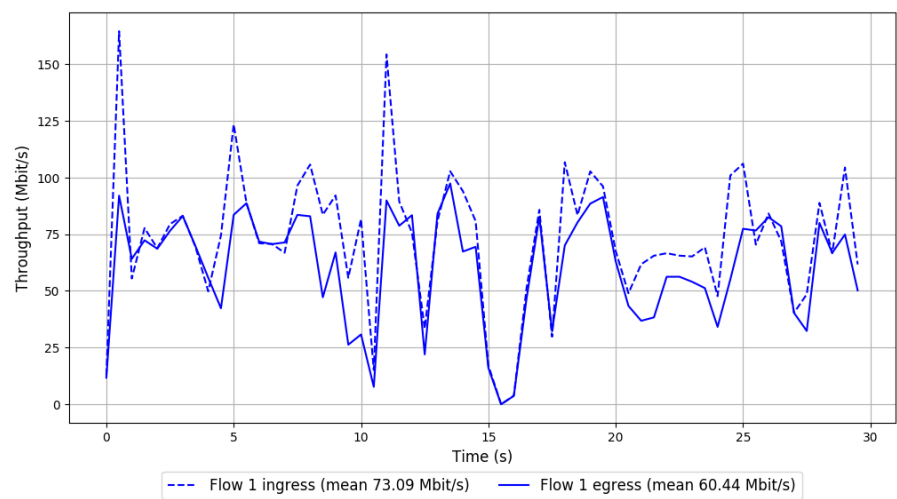


Run 3: Statistics of Verus

Start at: 2018-02-20 02:52:40
End at: 2018-02-20 02:53:10
Local clock offset: -2.943 ms
Remote clock offset: 1.358 ms

Below is generated by plot.py at 2018-02-20 06:57:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 60.44 Mbit/s
95th percentile per-packet one-way delay: 64.956 ms
Loss rate: 17.30%
-- Flow 1:
Average throughput: 60.44 Mbit/s
95th percentile per-packet one-way delay: 64.956 ms
Loss rate: 17.30%

Run 3: Report of Verus — Data Link

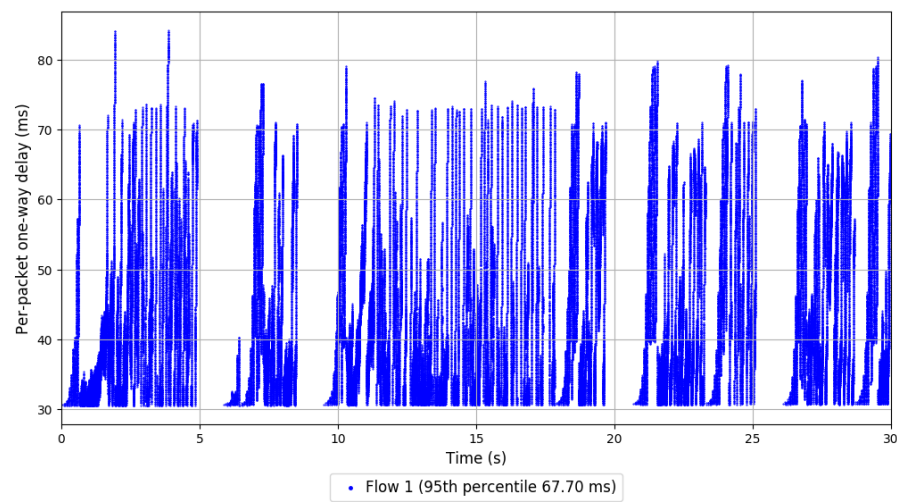
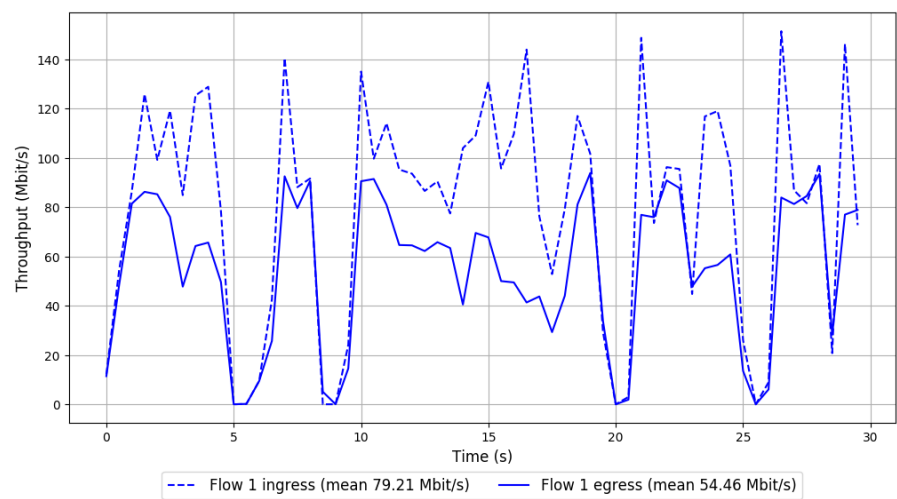


Run 4: Statistics of Verus

Start at: 2018-02-20 03:21:32
End at: 2018-02-20 03:22:03
Local clock offset: 6.121 ms
Remote clock offset: -7.244 ms

Below is generated by plot.py at 2018-02-20 06:57:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 54.46 Mbit/s
95th percentile per-packet one-way delay: 67.701 ms
Loss rate: 31.17%
-- Flow 1:
Average throughput: 54.46 Mbit/s
95th percentile per-packet one-way delay: 67.701 ms
Loss rate: 31.17%

Run 4: Report of Verus — Data Link

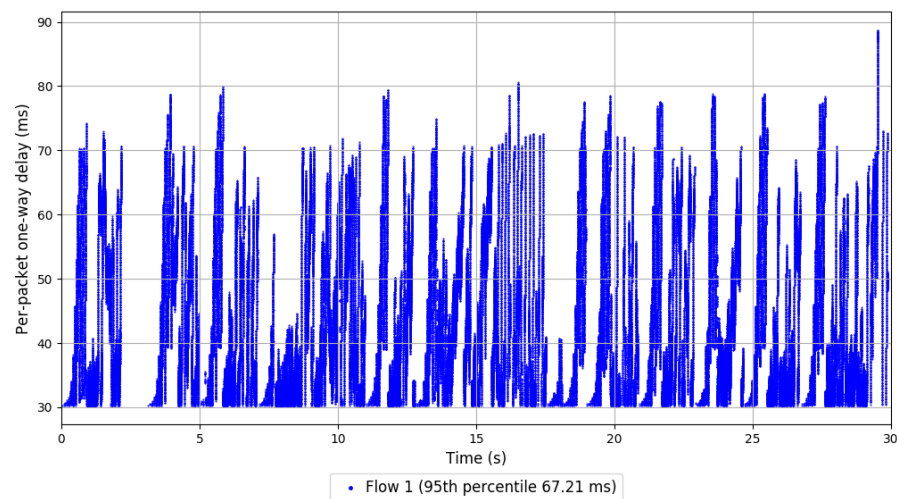
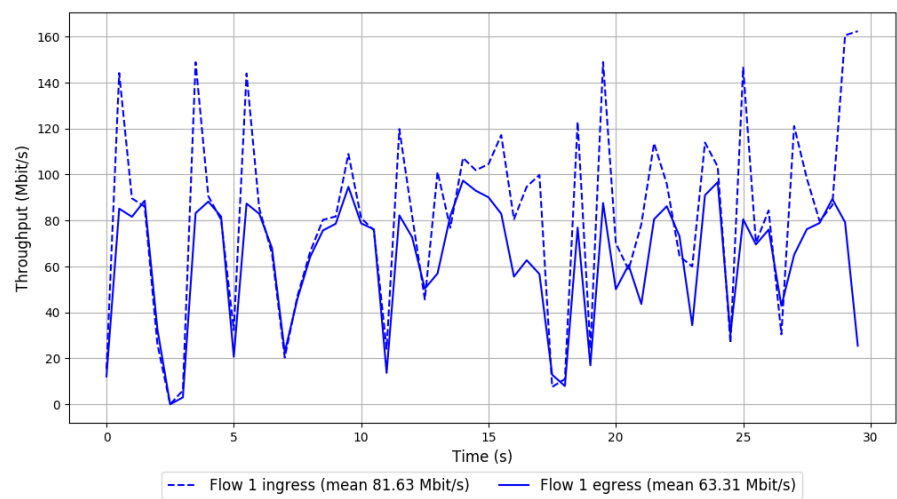


Run 5: Statistics of Verus

Start at: 2018-02-20 03:50:06
End at: 2018-02-20 03:50:36
Local clock offset: 2.091 ms
Remote clock offset: -10.479 ms

Below is generated by plot.py at 2018-02-20 06:57:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 63.31 Mbit/s
95th percentile per-packet one-way delay: 67.210 ms
Loss rate: 22.40%
-- Flow 1:
Average throughput: 63.31 Mbit/s
95th percentile per-packet one-way delay: 67.210 ms
Loss rate: 22.40%

Run 5: Report of Verus — Data Link

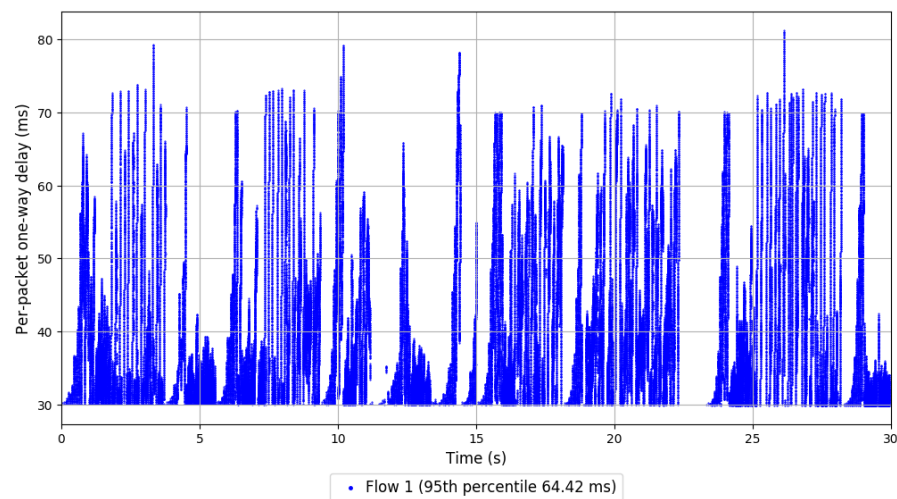
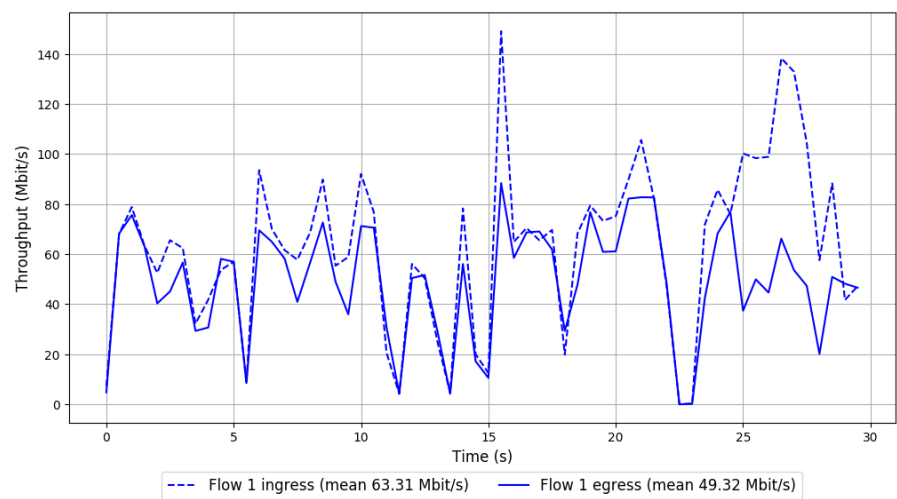


Run 6: Statistics of Verus

Start at: 2018-02-20 04:19:22
End at: 2018-02-20 04:19:52
Local clock offset: -3.589 ms
Remote clock offset: -9.502 ms

Below is generated by plot.py at 2018-02-20 06:57:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 49.32 Mbit/s
95th percentile per-packet one-way delay: 64.420 ms
Loss rate: 22.10%
-- Flow 1:
Average throughput: 49.32 Mbit/s
95th percentile per-packet one-way delay: 64.420 ms
Loss rate: 22.10%

Run 6: Report of Verus — Data Link

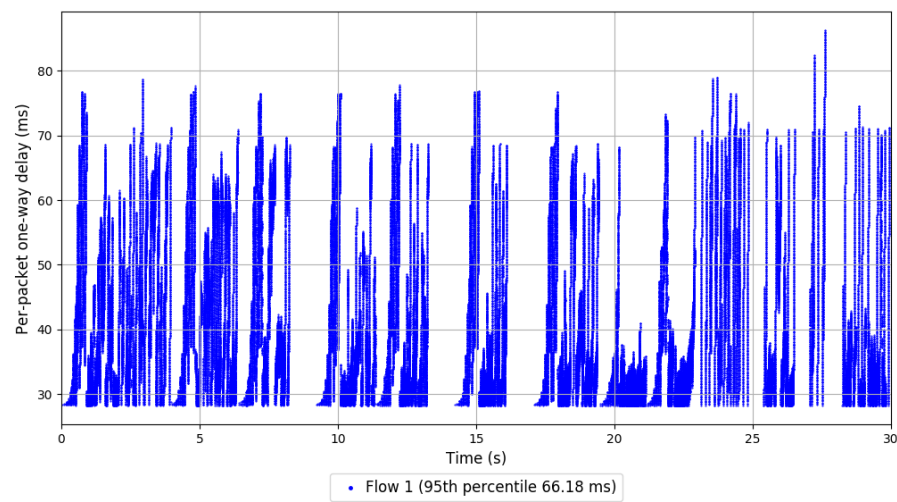
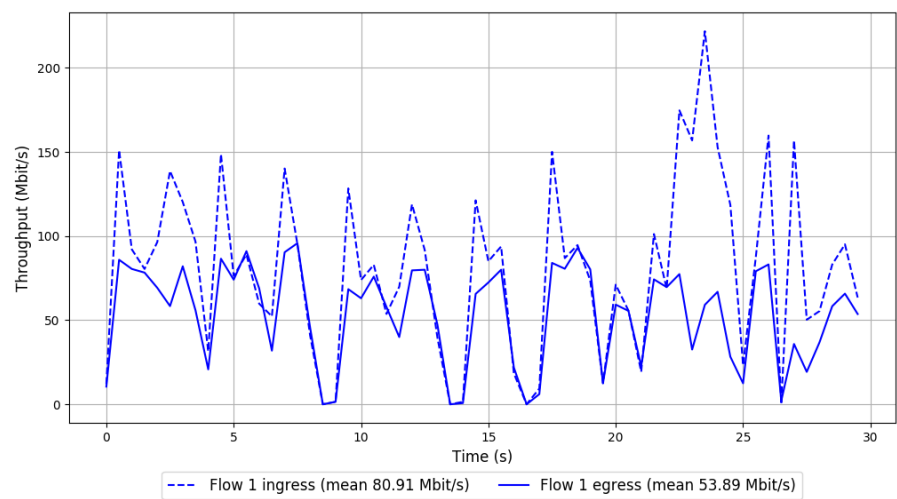


Run 7: Statistics of Verus

Start at: 2018-02-20 04:47:13
End at: 2018-02-20 04:47:43
Local clock offset: -2.526 ms
Remote clock offset: -8.747 ms

Below is generated by plot.py at 2018-02-20 06:57:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 53.89 Mbit/s
95th percentile per-packet one-way delay: 66.178 ms
Loss rate: 33.36%
-- Flow 1:
Average throughput: 53.89 Mbit/s
95th percentile per-packet one-way delay: 66.178 ms
Loss rate: 33.36%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-20 05:14:25

End at: 2018-02-20 05:14:55

Local clock offset: 0.578 ms

Remote clock offset: -2.6 ms

Below is generated by plot.py at 2018-02-20 06:57:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.81 Mbit/s

95th percentile per-packet one-way delay: 65.540 ms

Loss rate: 36.12%

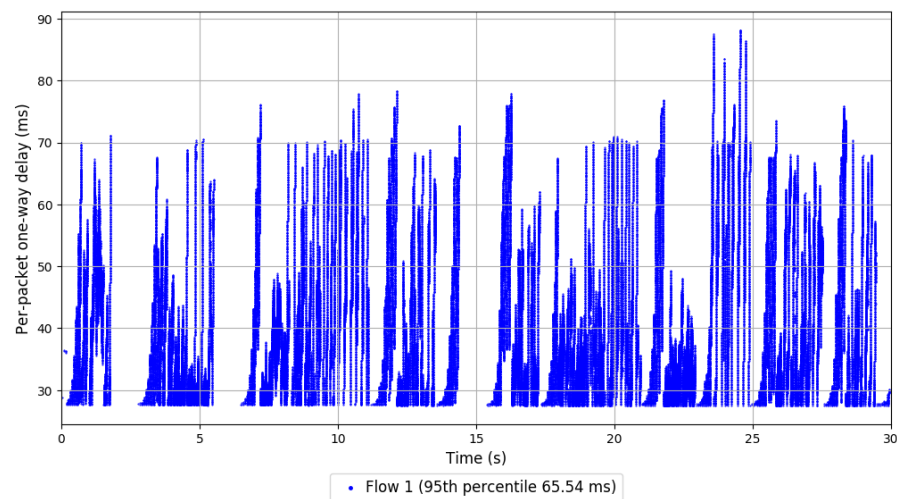
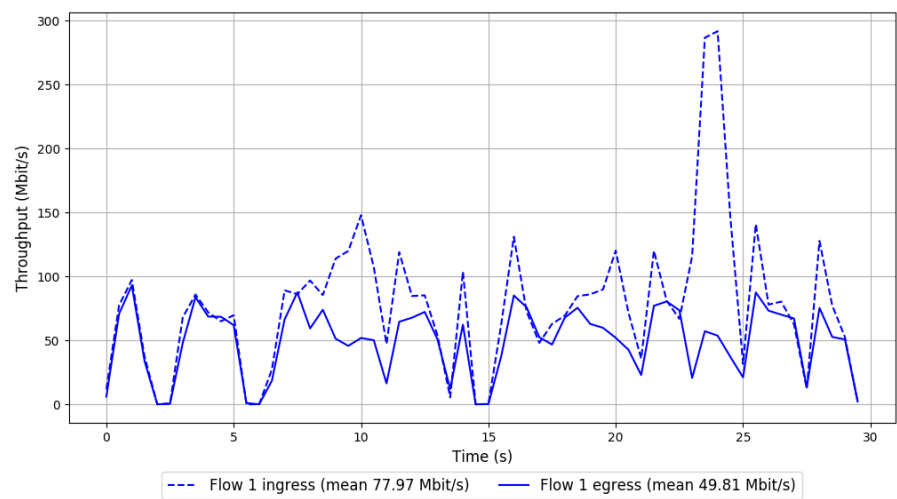
-- Flow 1:

Average throughput: 49.81 Mbit/s

95th percentile per-packet one-way delay: 65.540 ms

Loss rate: 36.12%

Run 8: Report of Verus — Data Link

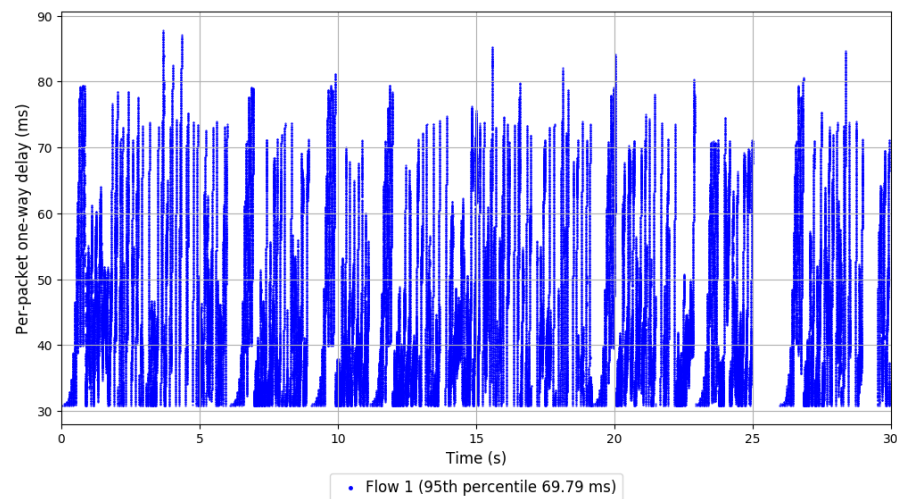
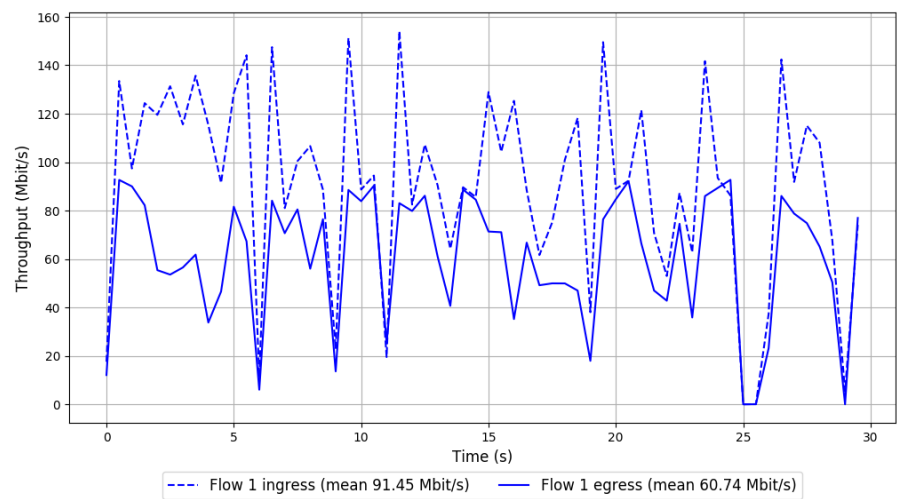


Run 9: Statistics of Verus

Start at: 2018-02-20 05:42:54
End at: 2018-02-20 05:43:24
Local clock offset: 0.266 ms
Remote clock offset: -2.639 ms

Below is generated by plot.py at 2018-02-20 06:58:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 60.74 Mbit/s
95th percentile per-packet one-way delay: 69.788 ms
Loss rate: 33.57%
-- Flow 1:
Average throughput: 60.74 Mbit/s
95th percentile per-packet one-way delay: 69.788 ms
Loss rate: 33.57%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-20 06:07:52

End at: 2018-02-20 06:08:22

Local clock offset: 3.016 ms

Remote clock offset: -1.511 ms

Below is generated by plot.py at 2018-02-20 06:58:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.17 Mbit/s

95th percentile per-packet one-way delay: 72.664 ms

Loss rate: 66.69%

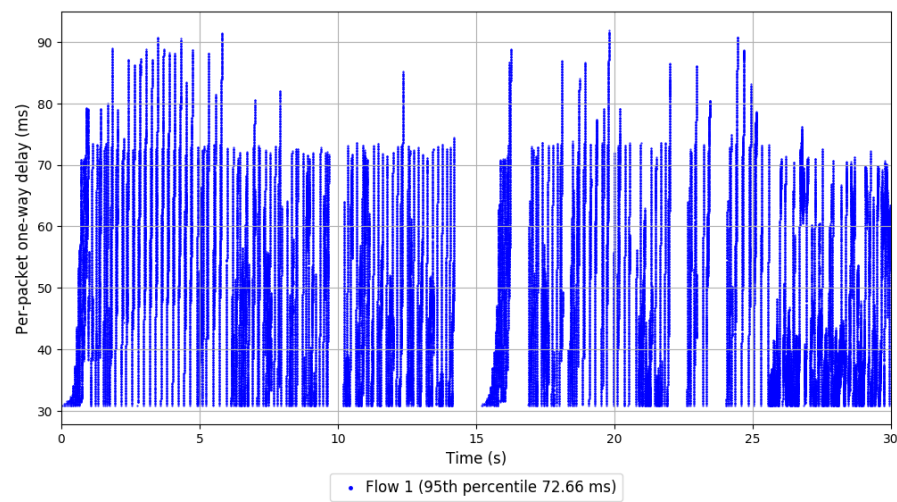
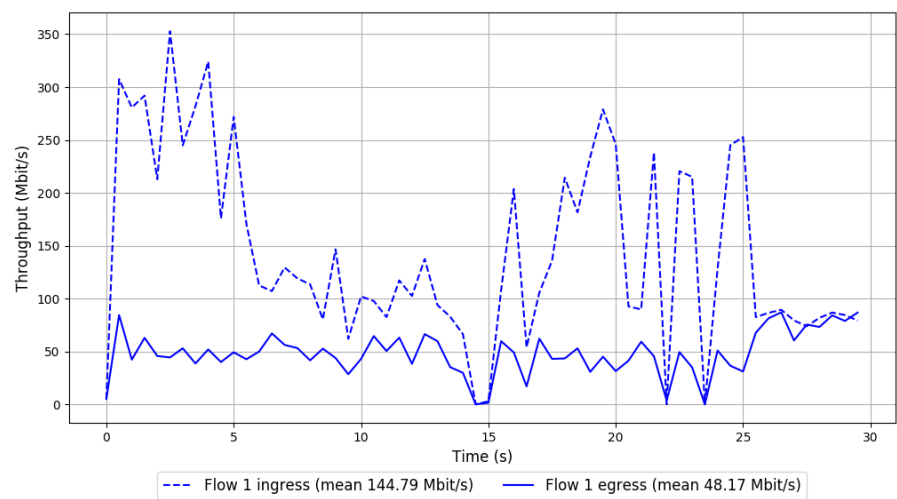
-- Flow 1:

Average throughput: 48.17 Mbit/s

95th percentile per-packet one-way delay: 72.664 ms

Loss rate: 66.69%

Run 10: Report of Verus — Data Link

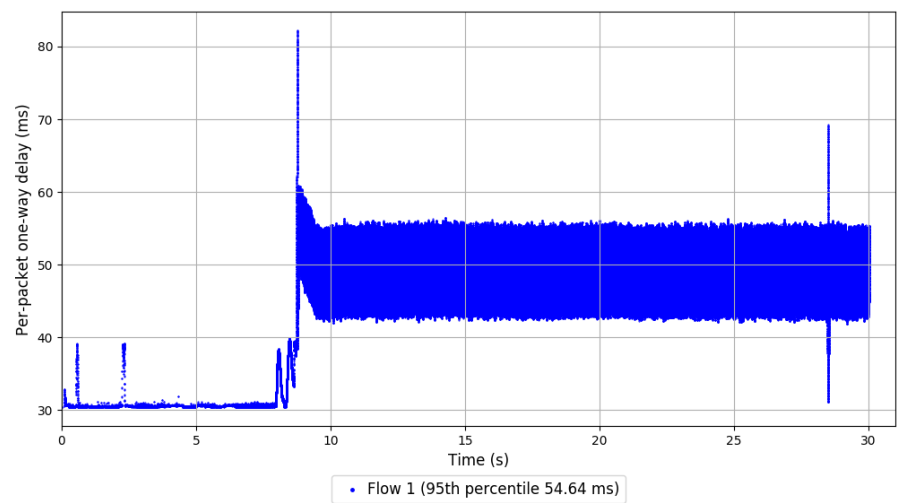
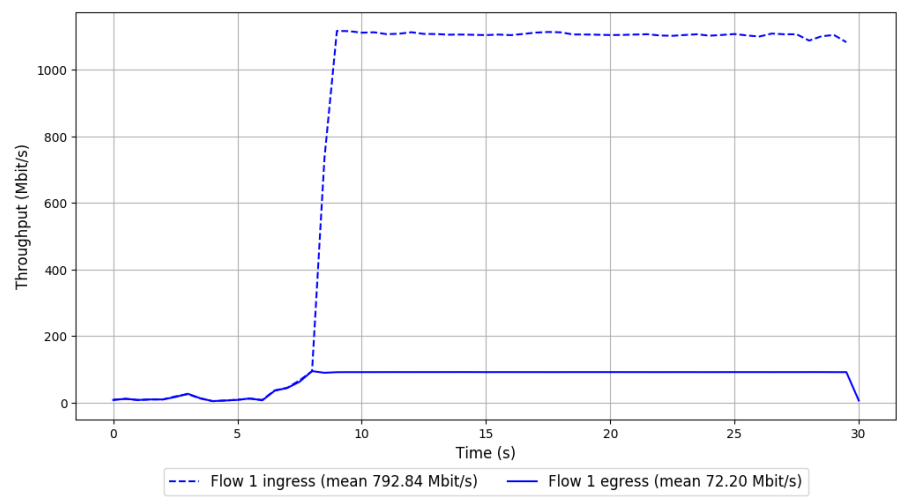


Run 1: Statistics of Copa

Start at: 2018-02-20 02:03:04
End at: 2018-02-20 02:03:34
Local clock offset: -4.927 ms
Remote clock offset: -2.766 ms

Below is generated by plot.py at 2018-02-20 07:04:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 72.20 Mbit/s
95th percentile per-packet one-way delay: 54.636 ms
Loss rate: 90.89%
-- Flow 1:
Average throughput: 72.20 Mbit/s
95th percentile per-packet one-way delay: 54.636 ms
Loss rate: 90.89%

Run 1: Report of Copa — Data Link

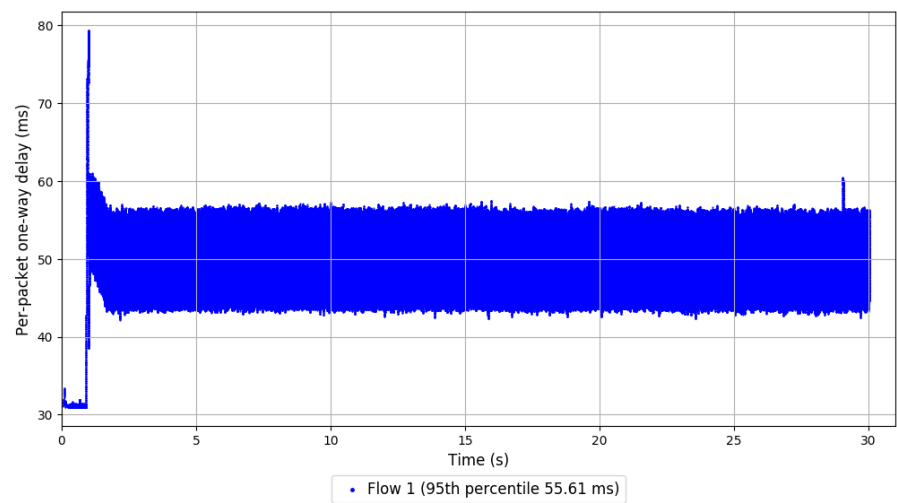
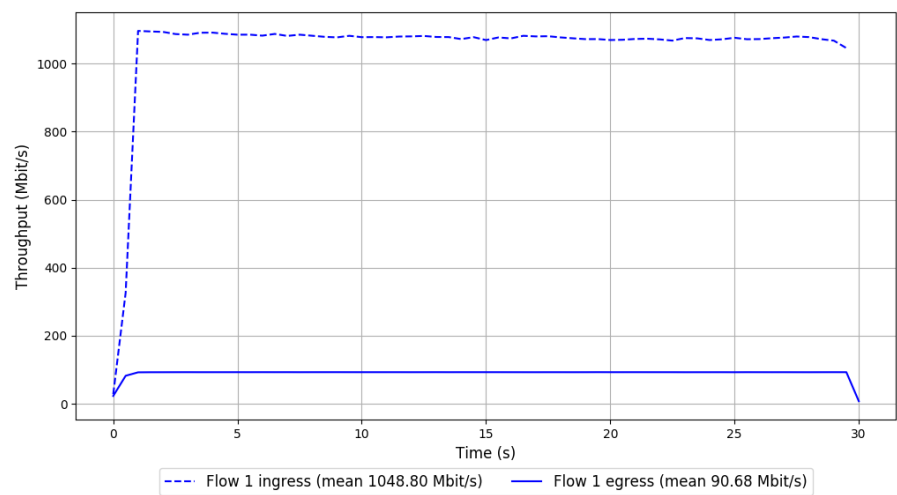


Run 2: Statistics of Copa

Start at: 2018-02-20 02:33:19
End at: 2018-02-20 02:33:49
Local clock offset: -3.917 ms
Remote clock offset: -1.051 ms

Below is generated by plot.py at 2018-02-20 07:07:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.68 Mbit/s
95th percentile per-packet one-way delay: 55.608 ms
Loss rate: 91.35%
-- Flow 1:
Average throughput: 90.68 Mbit/s
95th percentile per-packet one-way delay: 55.608 ms
Loss rate: 91.35%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-20 03:03:56

End at: 2018-02-20 03:04:26

Local clock offset: 1.249 ms

Remote clock offset: 2.325 ms

Below is generated by plot.py at 2018-02-20 07:07:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.41 Mbit/s

95th percentile per-packet one-way delay: 55.332 ms

Loss rate: 91.78%

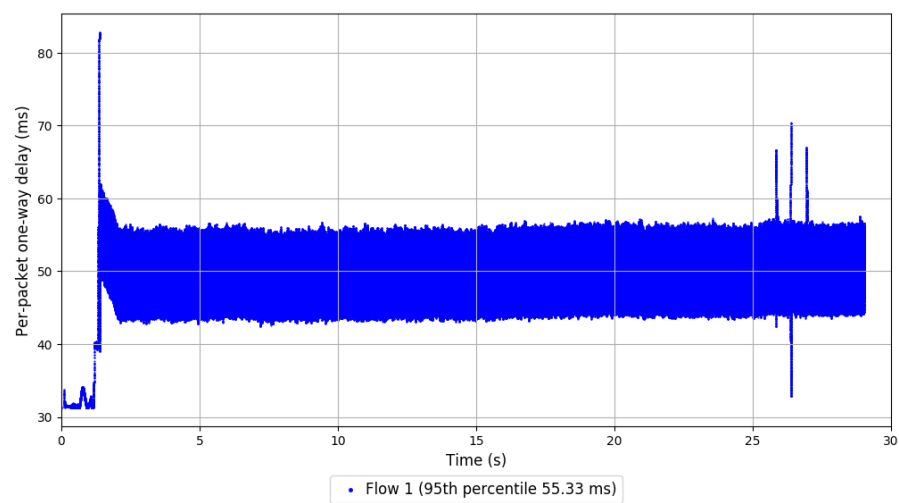
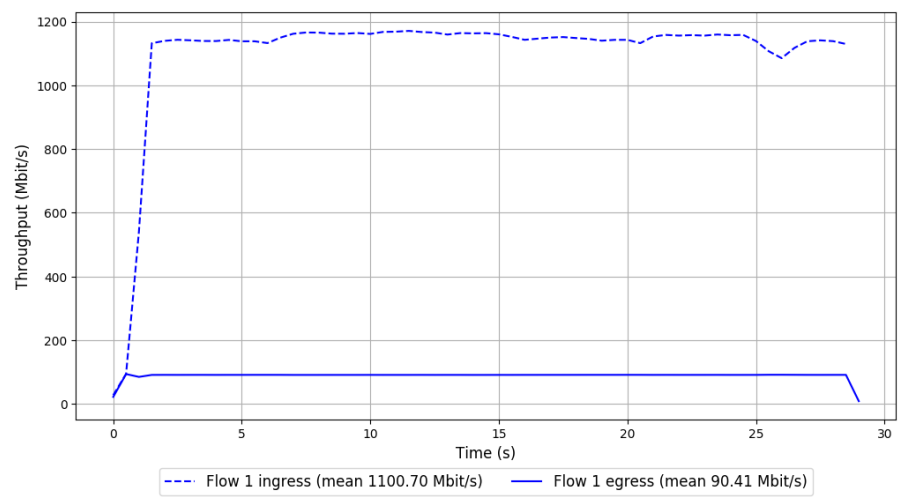
-- Flow 1:

Average throughput: 90.41 Mbit/s

95th percentile per-packet one-way delay: 55.332 ms

Loss rate: 91.78%

Run 3: Report of Copa — Data Link

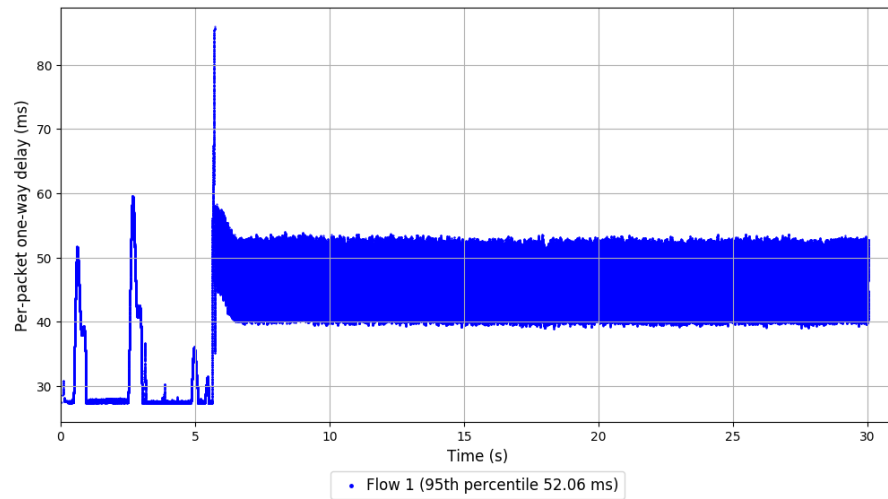
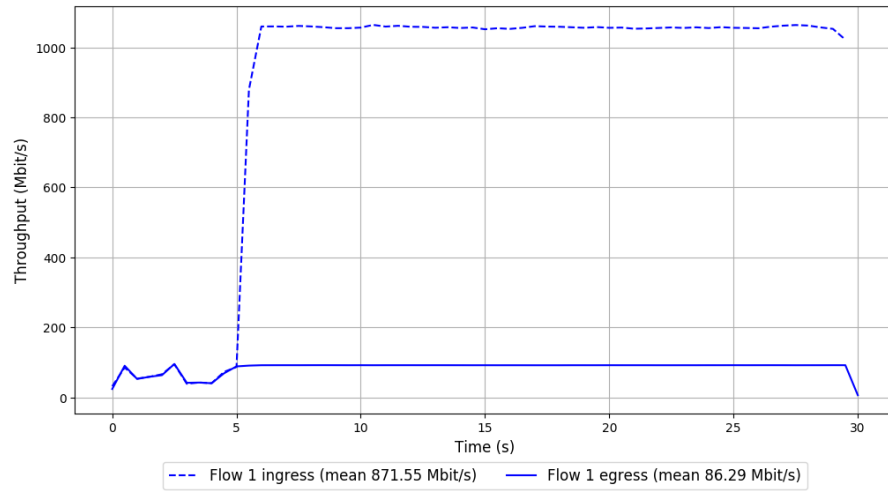


Run 4: Statistics of Copa

Start at: 2018-02-20 03:32:23
End at: 2018-02-20 03:32:53
Local clock offset: 7.241 ms
Remote clock offset: -12.018 ms

Below is generated by plot.py at 2018-02-20 07:07:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.29 Mbit/s
95th percentile per-packet one-way delay: 52.060 ms
Loss rate: 90.09%
-- Flow 1:
Average throughput: 86.29 Mbit/s
95th percentile per-packet one-way delay: 52.060 ms
Loss rate: 90.09%

Run 4: Report of Copa — Data Link

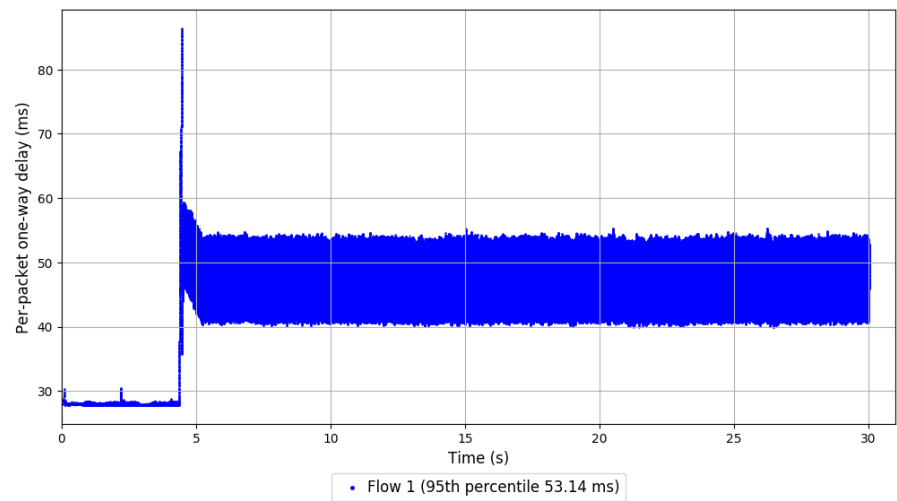
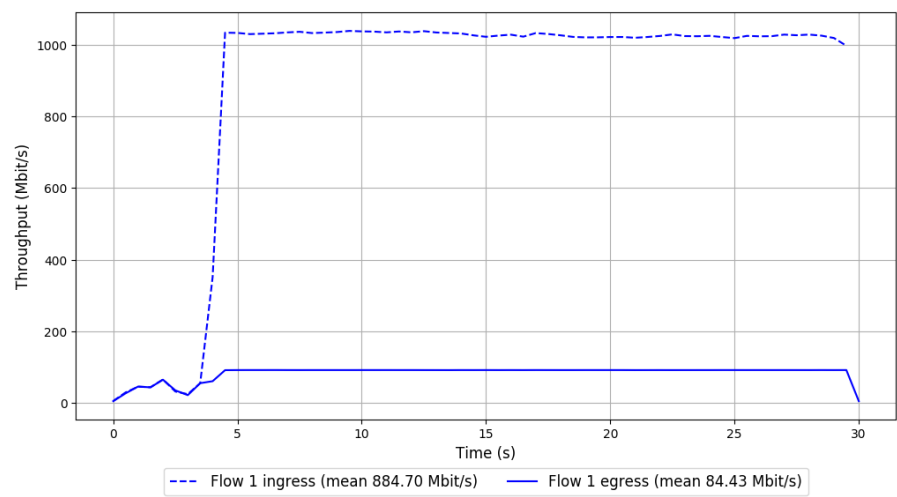


Run 5: Statistics of Copa

Start at: 2018-02-20 04:01:05
End at: 2018-02-20 04:01:35
Local clock offset: 1.712 ms
Remote clock offset: -13.841 ms

Below is generated by plot.py at 2018-02-20 07:07:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.43 Mbit/s
95th percentile per-packet one-way delay: 53.136 ms
Loss rate: 90.45%
-- Flow 1:
Average throughput: 84.43 Mbit/s
95th percentile per-packet one-way delay: 53.136 ms
Loss rate: 90.45%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

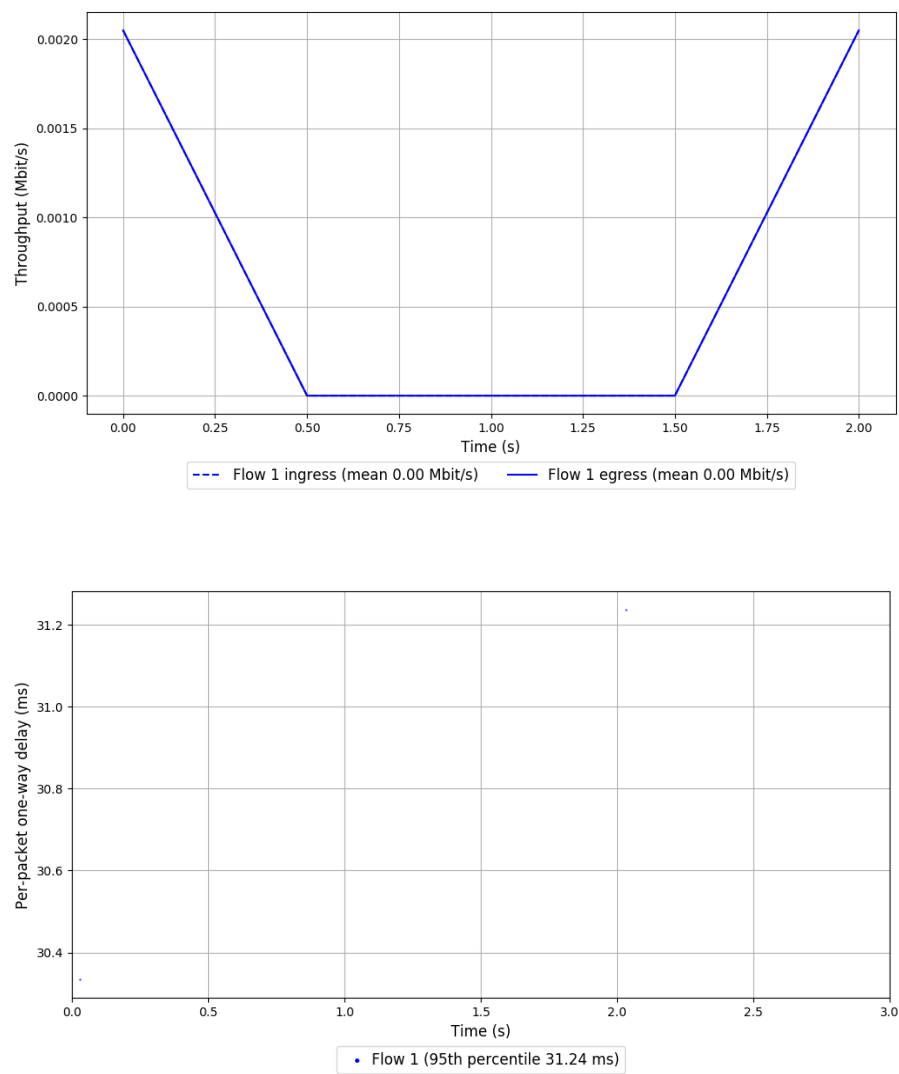
Start at: 2018-02-20 04:30:49

End at: 2018-02-20 04:31:19

Local clock offset: -5.477 ms

Remote clock offset: -7.413 ms

Run 6: Report of Copa — Data Link

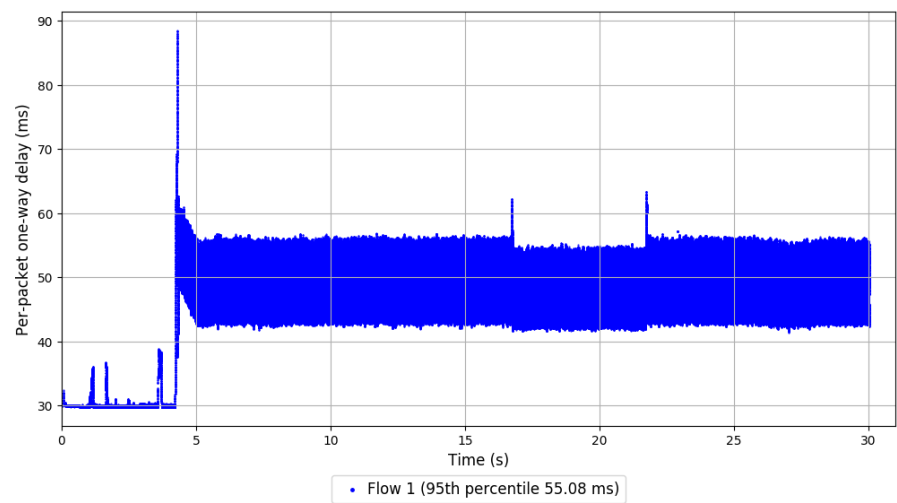
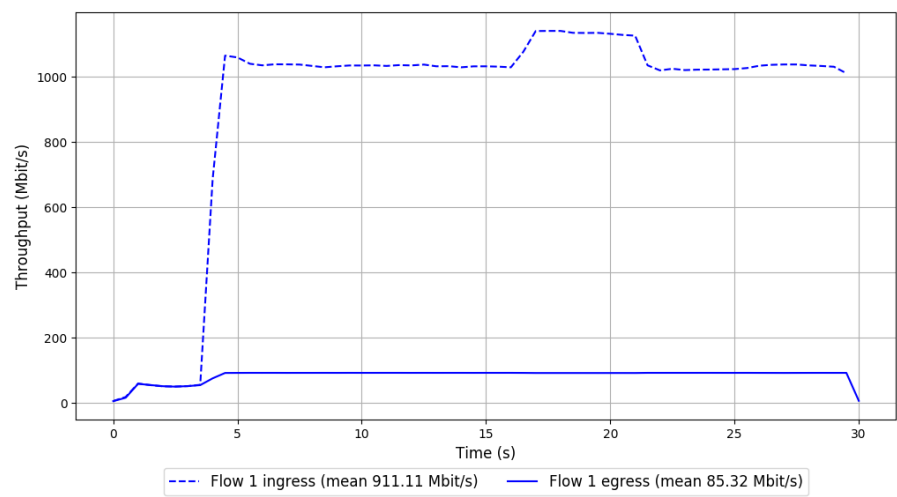


Run 7: Statistics of Copa

Start at: 2018-02-20 04:57:33
End at: 2018-02-20 04:58:03
Local clock offset: -0.263 ms
Remote clock offset: -3.177 ms

Below is generated by plot.py at 2018-02-20 07:07:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 85.32 Mbit/s
95th percentile per-packet one-way delay: 55.076 ms
Loss rate: 90.63%
-- Flow 1:
Average throughput: 85.32 Mbit/s
95th percentile per-packet one-way delay: 55.076 ms
Loss rate: 90.63%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-20 05:26:51

End at: 2018-02-20 05:27:21

Local clock offset: 0.222 ms

Remote clock offset: -2.17 ms

Below is generated by plot.py at 2018-02-20 07:07:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.60 Mbit/s

95th percentile per-packet one-way delay: 54.348 ms

Loss rate: 89.29%

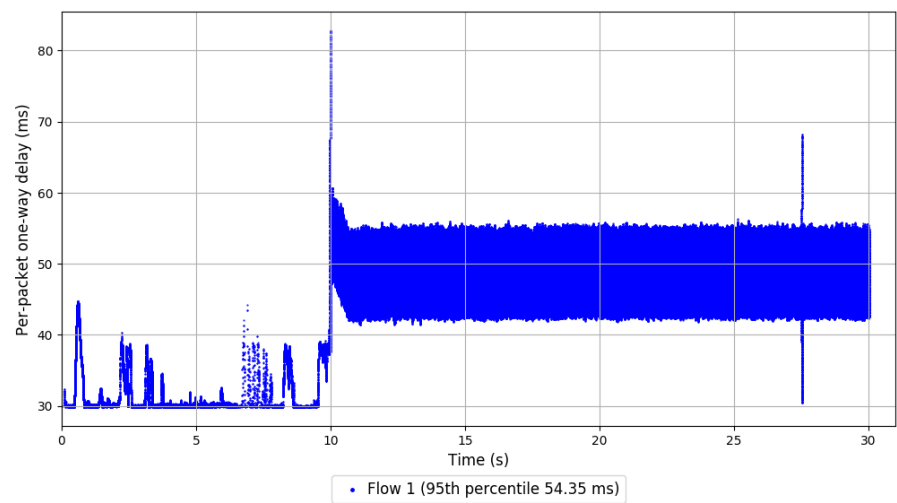
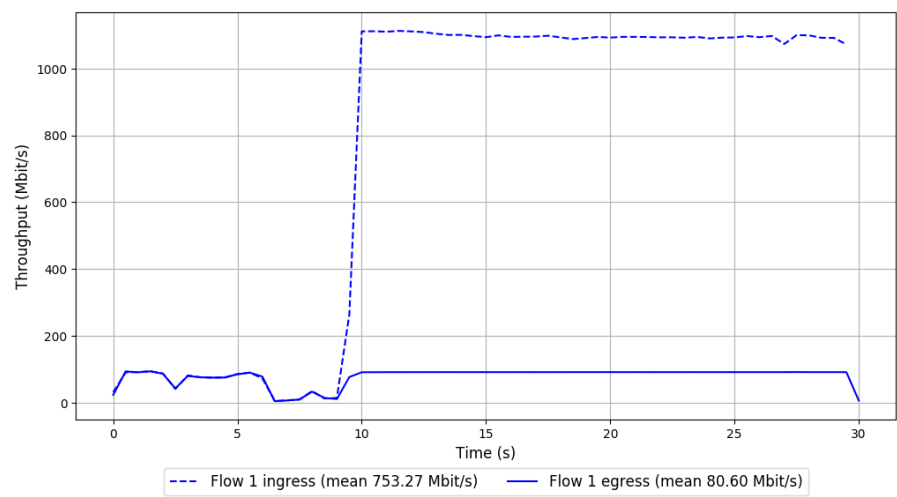
-- Flow 1:

Average throughput: 80.60 Mbit/s

95th percentile per-packet one-way delay: 54.348 ms

Loss rate: 89.29%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-20 05:52:24

End at: 2018-02-20 05:52:54

Local clock offset: 1.17 ms

Remote clock offset: -2.648 ms

Below is generated by plot.py at 2018-02-20 07:07:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.88 Mbit/s

95th percentile per-packet one-way delay: 35.058 ms

Loss rate: 0.05%

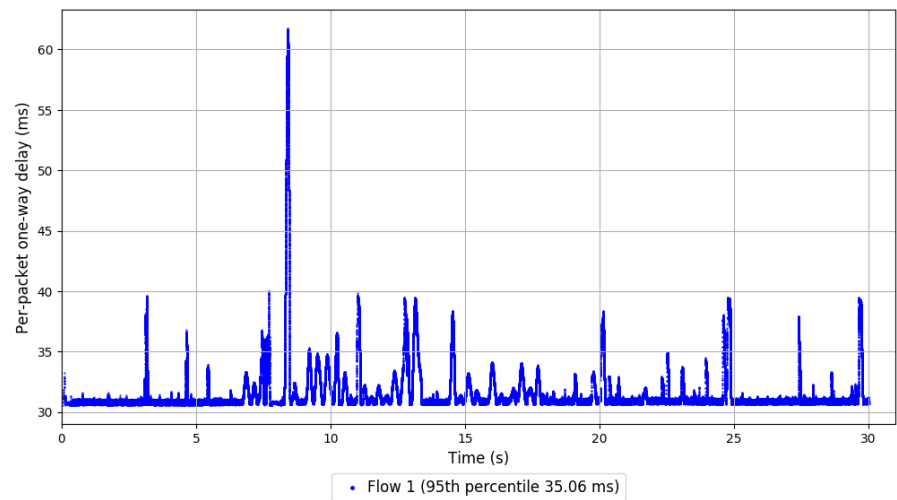
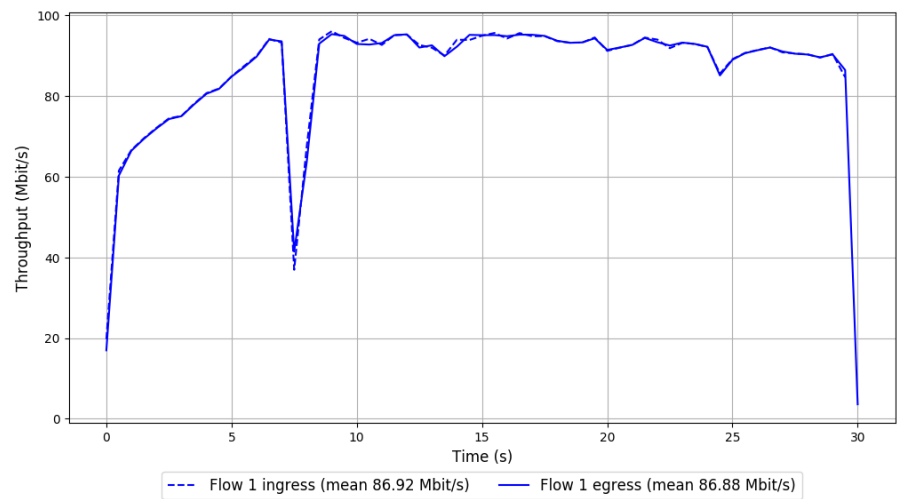
-- Flow 1:

Average throughput: 86.88 Mbit/s

95th percentile per-packet one-way delay: 35.058 ms

Loss rate: 0.05%

Run 9: Report of Copa — Data Link

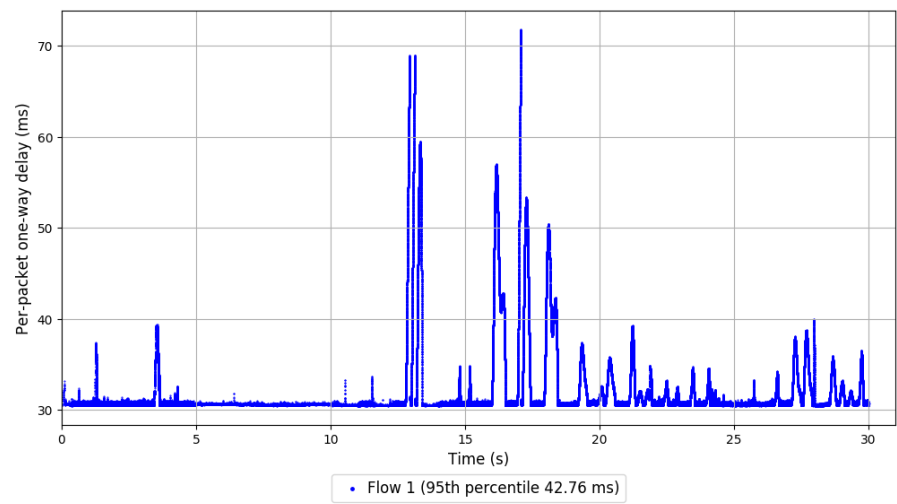
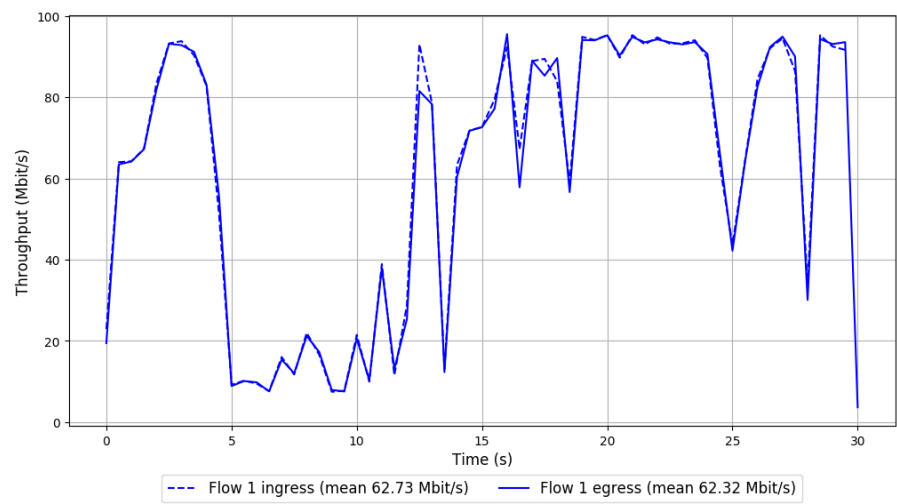


Run 10: Statistics of Copa

Start at: 2018-02-20 06:19:07
End at: 2018-02-20 06:19:37
Local clock offset: 3.595 ms
Remote clock offset: -1.485 ms

Below is generated by plot.py at 2018-02-20 07:07:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 62.32 Mbit/s
95th percentile per-packet one-way delay: 42.757 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 62.32 Mbit/s
95th percentile per-packet one-way delay: 42.757 ms
Loss rate: 0.65%

Run 10: Report of Copa — Data Link

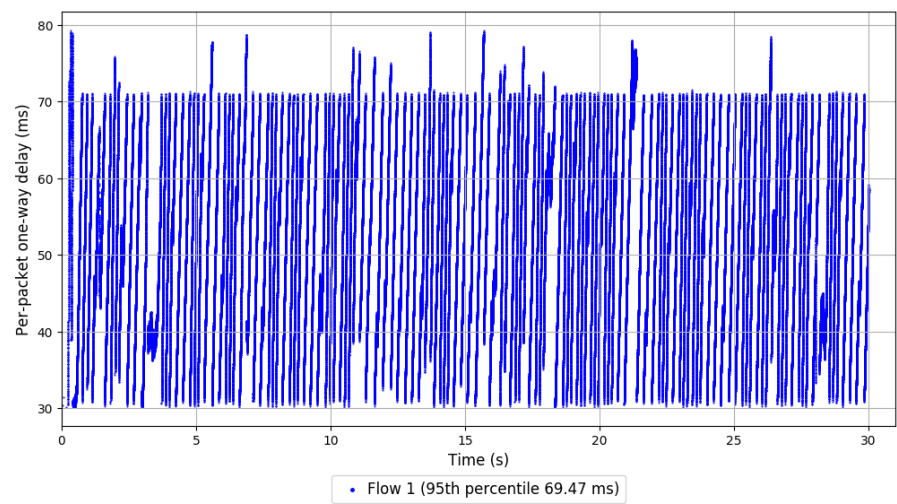
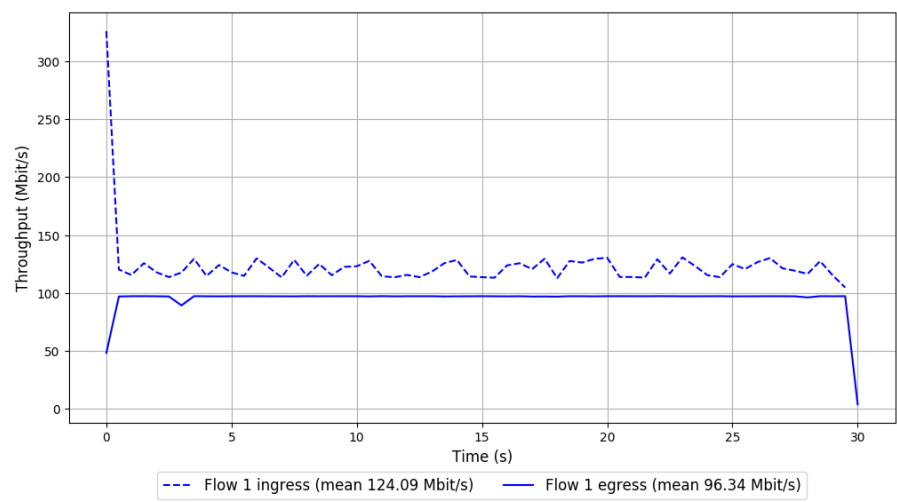


Run 1: Statistics of FillP

Start at: 2018-02-20 02:09:50
End at: 2018-02-20 02:10:20
Local clock offset: -5.241 ms
Remote clock offset: -2.711 ms

Below is generated by plot.py at 2018-02-20 07:07:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.34 Mbit/s
95th percentile per-packet one-way delay: 69.472 ms
Loss rate: 22.29%
-- Flow 1:
Average throughput: 96.34 Mbit/s
95th percentile per-packet one-way delay: 69.472 ms
Loss rate: 22.29%

Run 1: Report of FillP — Data Link

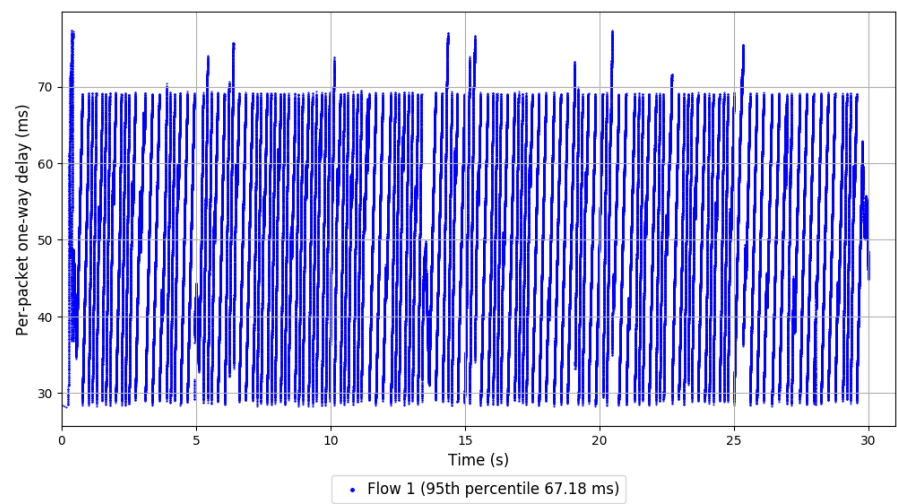
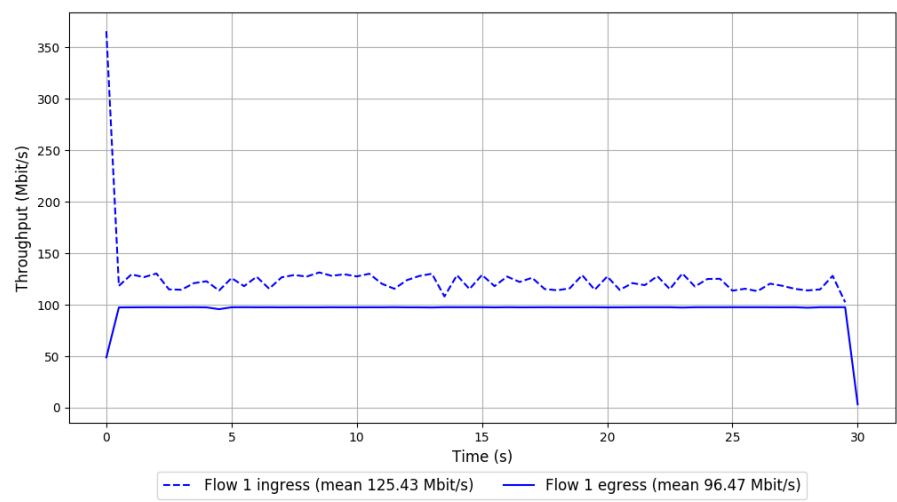


Run 2: Statistics of FillP

Start at: 2018-02-20 02:41:26
End at: 2018-02-20 02:41:56
Local clock offset: -3.293 ms
Remote clock offset: -1.951 ms

Below is generated by plot.py at 2018-02-20 07:07:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.47 Mbit/s
95th percentile per-packet one-way delay: 67.184 ms
Loss rate: 23.04%
-- Flow 1:
Average throughput: 96.47 Mbit/s
95th percentile per-packet one-way delay: 67.184 ms
Loss rate: 23.04%

Run 2: Report of FillP — Data Link

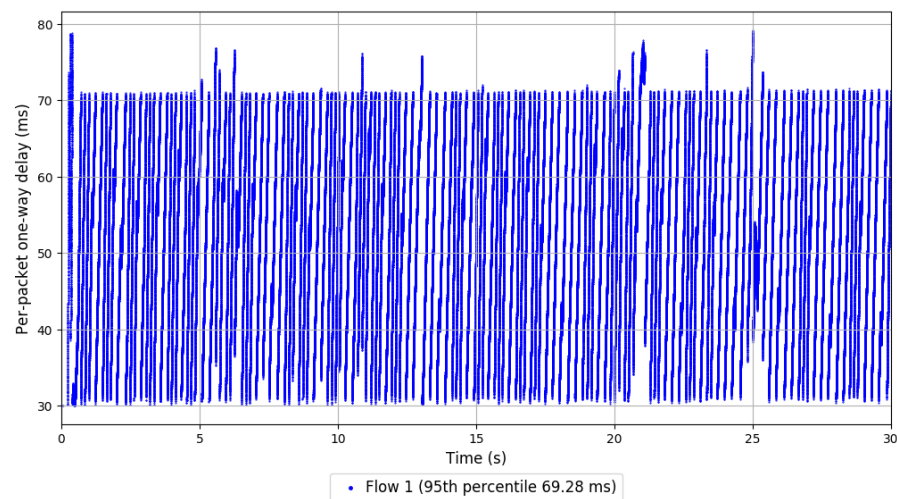
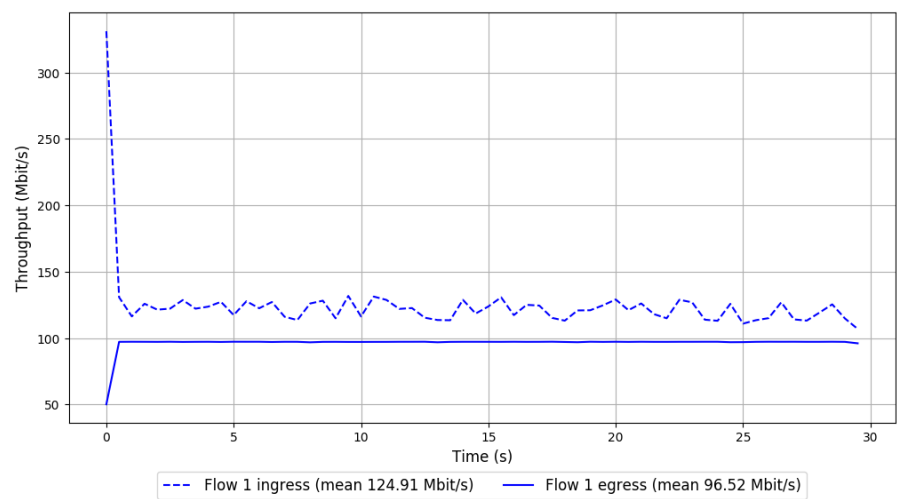


Run 3: Statistics of FillP

Start at: 2018-02-20 03:10:38
End at: 2018-02-20 03:11:08
Local clock offset: 3.799 ms
Remote clock offset: -3.728 ms

Below is generated by plot.py at 2018-02-20 07:07:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.52 Mbit/s
95th percentile per-packet one-way delay: 69.283 ms
Loss rate: 22.68%
-- Flow 1:
Average throughput: 96.52 Mbit/s
95th percentile per-packet one-way delay: 69.283 ms
Loss rate: 22.68%

Run 3: Report of FillP — Data Link

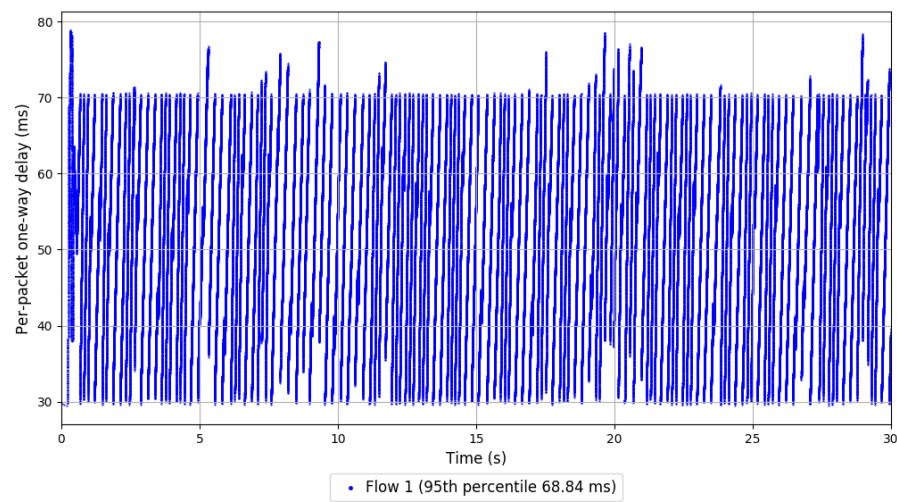
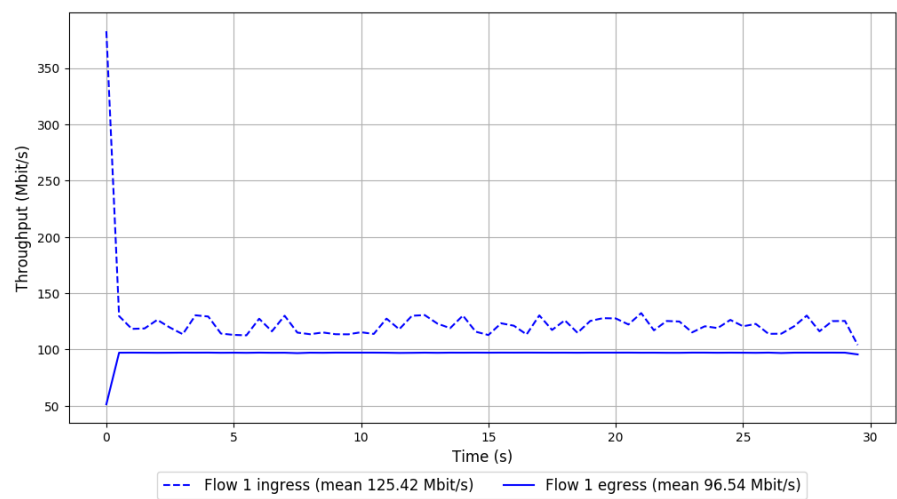


Run 4: Statistics of FillP

Start at: 2018-02-20 03:39:19
End at: 2018-02-20 03:39:49
Local clock offset: 3.889 ms
Remote clock offset: -10.699 ms

Below is generated by plot.py at 2018-02-20 07:07:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.54 Mbit/s
95th percentile per-packet one-way delay: 68.837 ms
Loss rate: 23.00%
-- Flow 1:
Average throughput: 96.54 Mbit/s
95th percentile per-packet one-way delay: 68.837 ms
Loss rate: 23.00%

Run 4: Report of FillP — Data Link

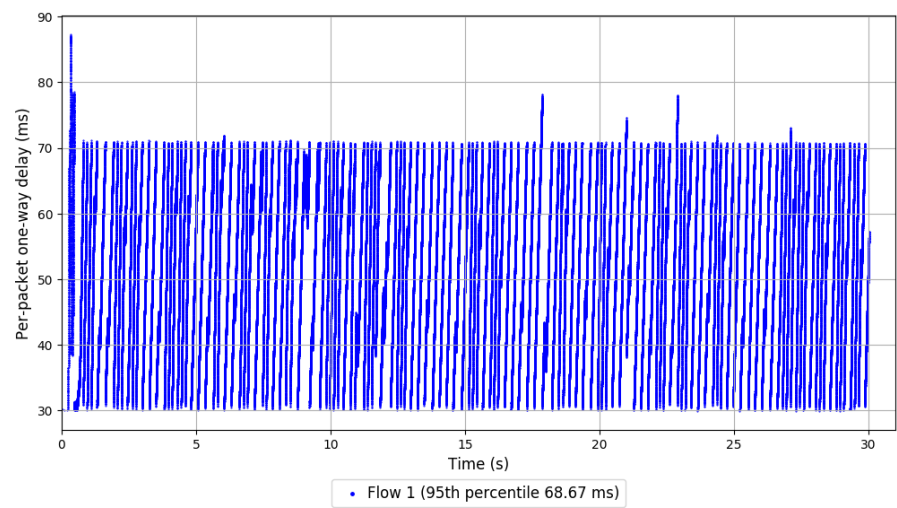
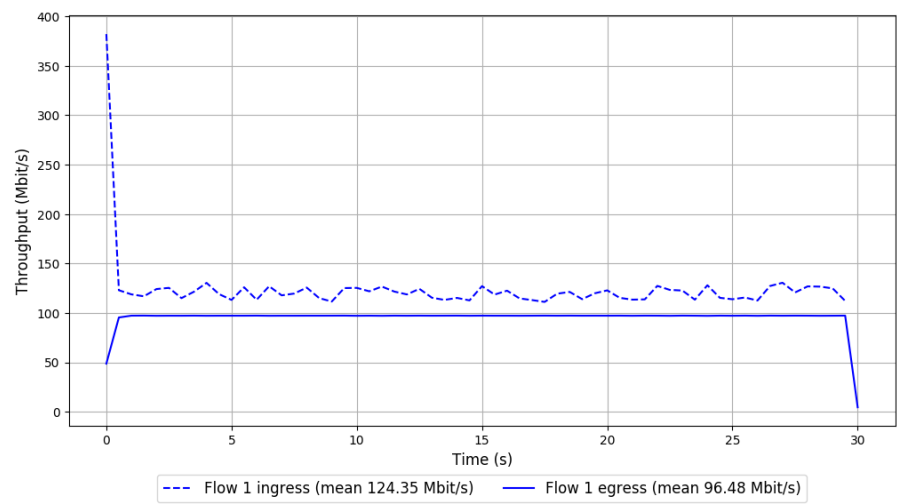


Run 5: Statistics of FillP

Start at: 2018-02-20 04:08:16
End at: 2018-02-20 04:08:46
Local clock offset: 0.418 ms
Remote clock offset: -12.503 ms

Below is generated by plot.py at 2018-02-20 07:07:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.48 Mbit/s
95th percentile per-packet one-way delay: 68.670 ms
Loss rate: 22.35%
-- Flow 1:
Average throughput: 96.48 Mbit/s
95th percentile per-packet one-way delay: 68.670 ms
Loss rate: 22.35%

Run 5: Report of FillP — Data Link

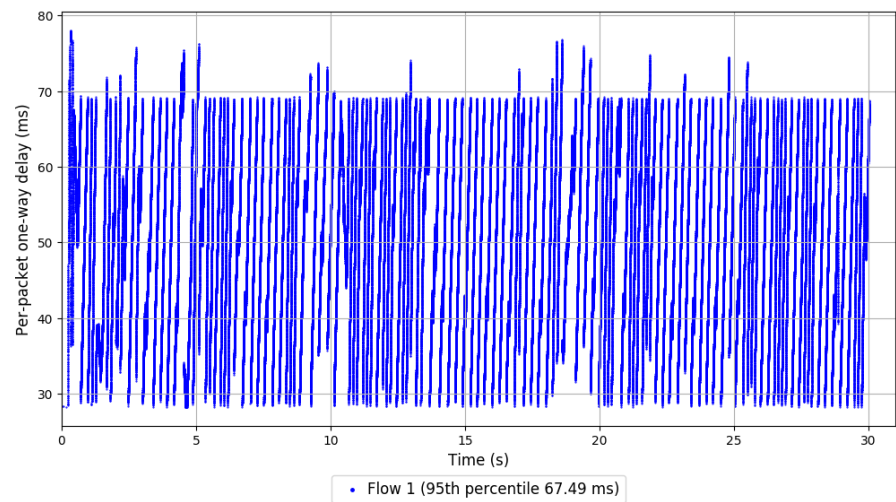
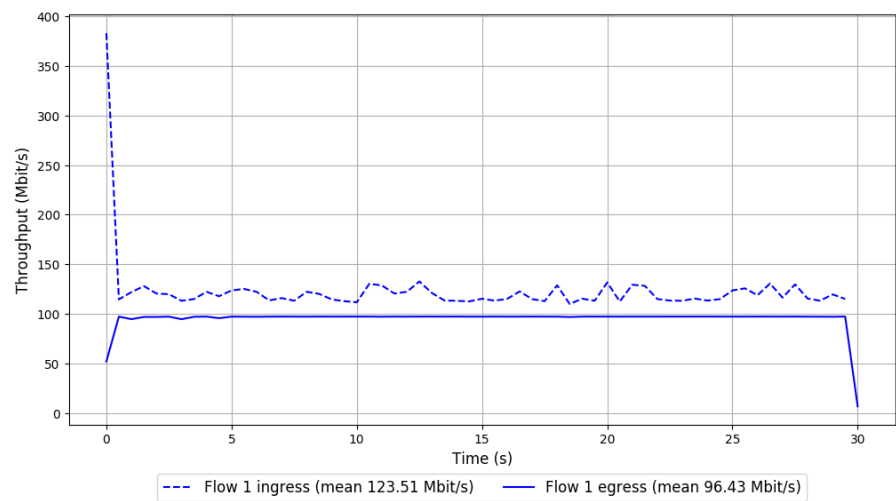


Run 6: Statistics of FillP

Start at: 2018-02-20 04:36:35
End at: 2018-02-20 04:37:05
Local clock offset: -6.195 ms
Remote clock offset: -9.193 ms

Below is generated by plot.py at 2018-02-20 07:07:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.43 Mbit/s
95th percentile per-packet one-way delay: 67.486 ms
Loss rate: 21.82%
-- Flow 1:
Average throughput: 96.43 Mbit/s
95th percentile per-packet one-way delay: 67.486 ms
Loss rate: 21.82%

Run 6: Report of FillP — Data Link

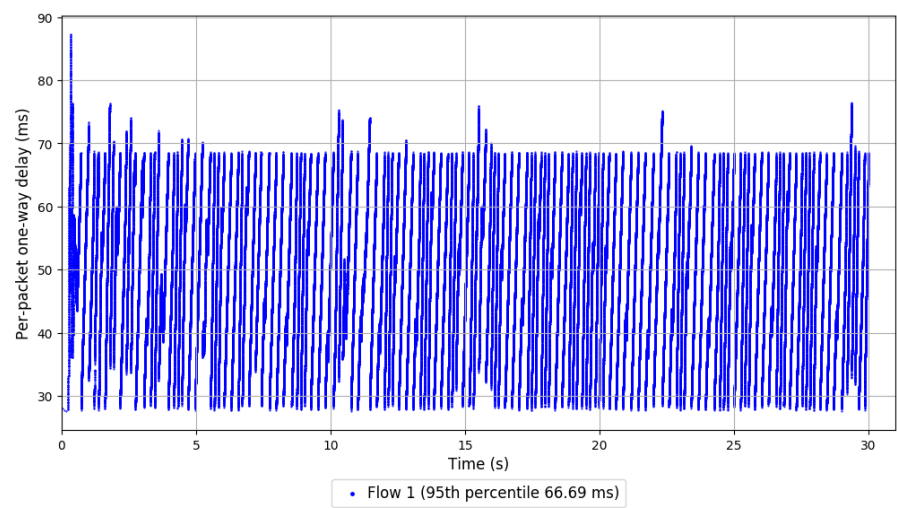
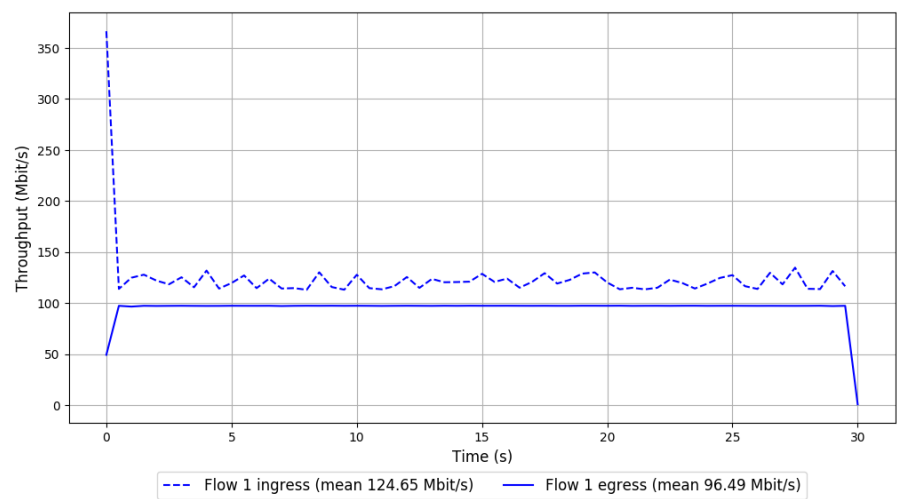


Run 7: Statistics of FillP

Start at: 2018-02-20 05:03:55
End at: 2018-02-20 05:04:25
Local clock offset: 0.279 ms
Remote clock offset: -4.111 ms

Below is generated by plot.py at 2018-02-20 07:07:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.49 Mbit/s
95th percentile per-packet one-way delay: 66.685 ms
Loss rate: 22.57%
-- Flow 1:
Average throughput: 96.49 Mbit/s
95th percentile per-packet one-way delay: 66.685 ms
Loss rate: 22.57%

Run 7: Report of FillP — Data Link

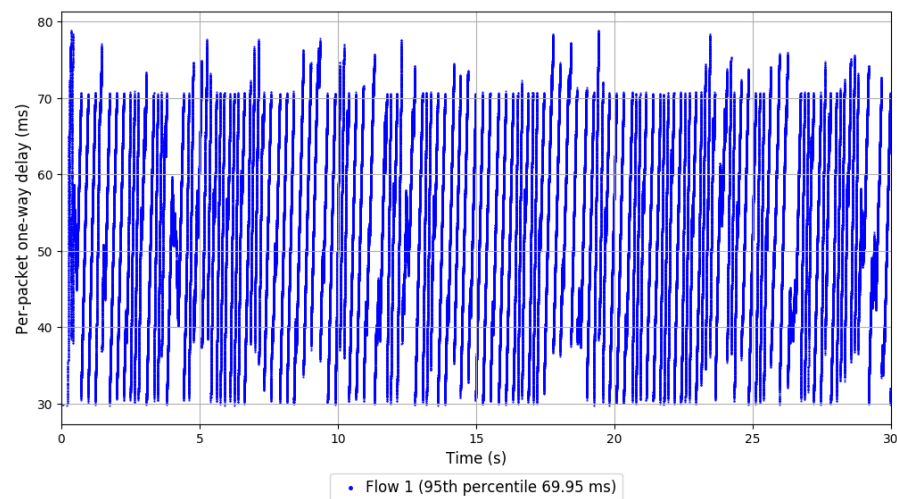
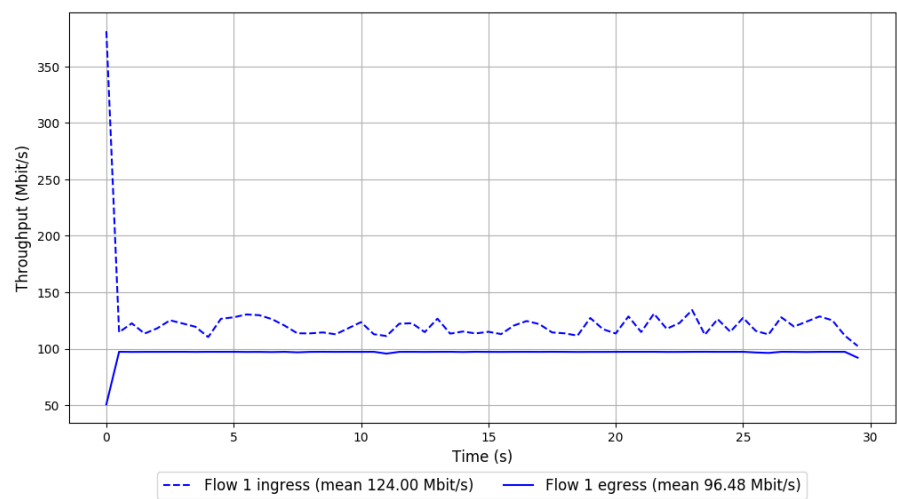


Run 8: Statistics of FillP

Start at: 2018-02-20 05:32:51
End at: 2018-02-20 05:33:21
Local clock offset: 0.164 ms
Remote clock offset: -2.989 ms

Below is generated by plot.py at 2018-02-20 07:08:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.48 Mbit/s
95th percentile per-packet one-way delay: 69.947 ms
Loss rate: 22.19%
-- Flow 1:
Average throughput: 96.48 Mbit/s
95th percentile per-packet one-way delay: 69.947 ms
Loss rate: 22.19%

Run 8: Report of FillP — Data Link

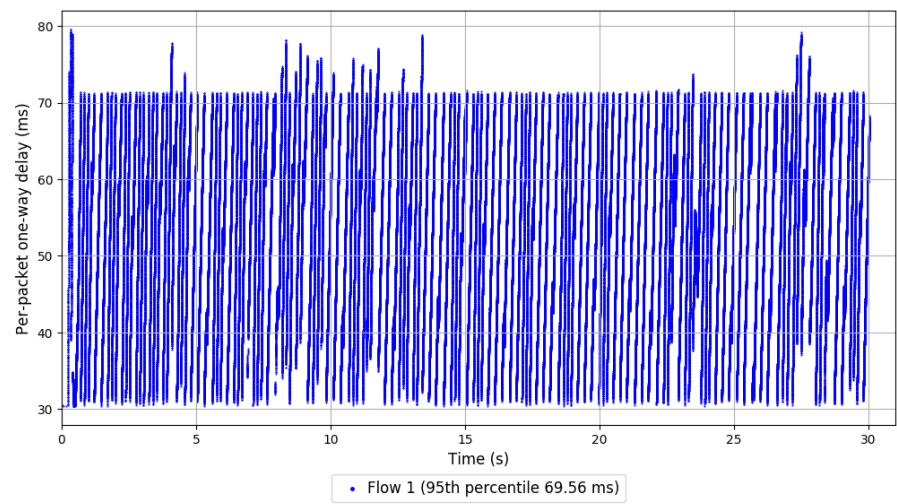
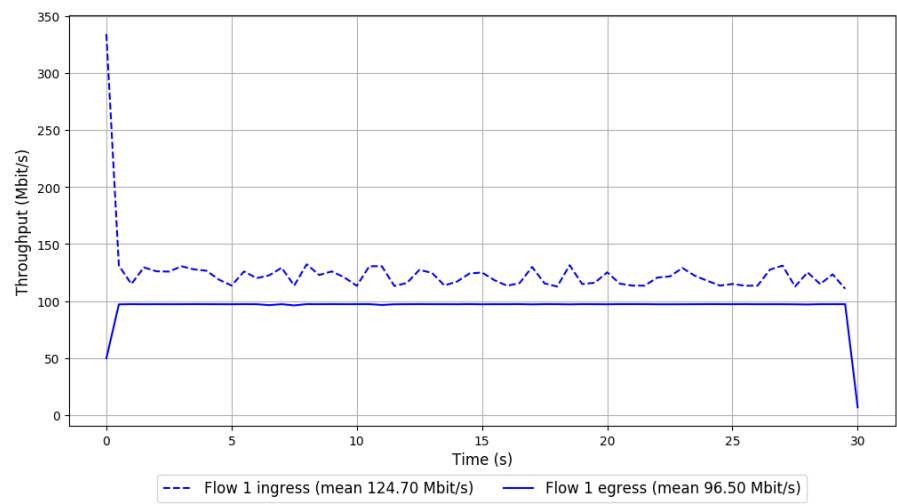


Run 9: Statistics of FillP

Start at: 2018-02-20 05:57:41
End at: 2018-02-20 05:58:11
Local clock offset: 2.12 ms
Remote clock offset: -2.477 ms

Below is generated by plot.py at 2018-02-20 07:08:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.50 Mbit/s
95th percentile per-packet one-way delay: 69.565 ms
Loss rate: 22.52%
-- Flow 1:
Average throughput: 96.50 Mbit/s
95th percentile per-packet one-way delay: 69.565 ms
Loss rate: 22.52%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-20 06:24:32

End at: 2018-02-20 06:25:02

Local clock offset: 2.321 ms

Remote clock offset: -3.39 ms

Below is generated by plot.py at 2018-02-20 07:08:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.51 Mbit/s

95th percentile per-packet one-way delay: 66.742 ms

Loss rate: 22.77%

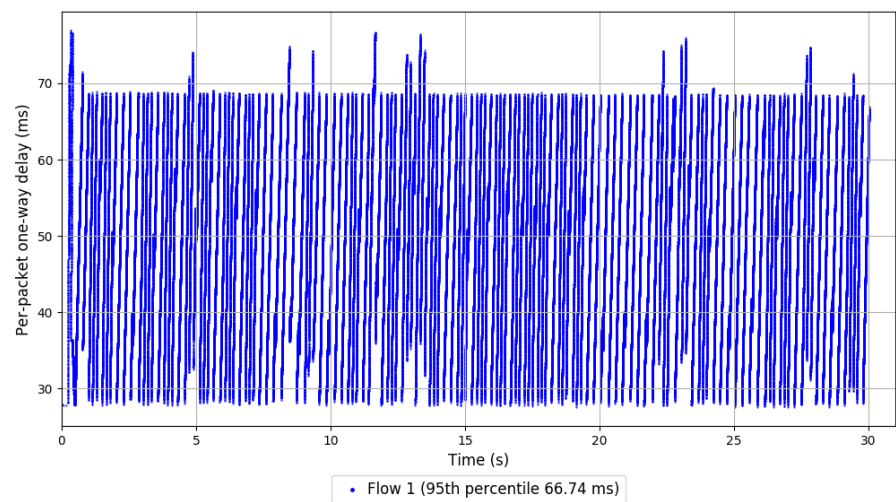
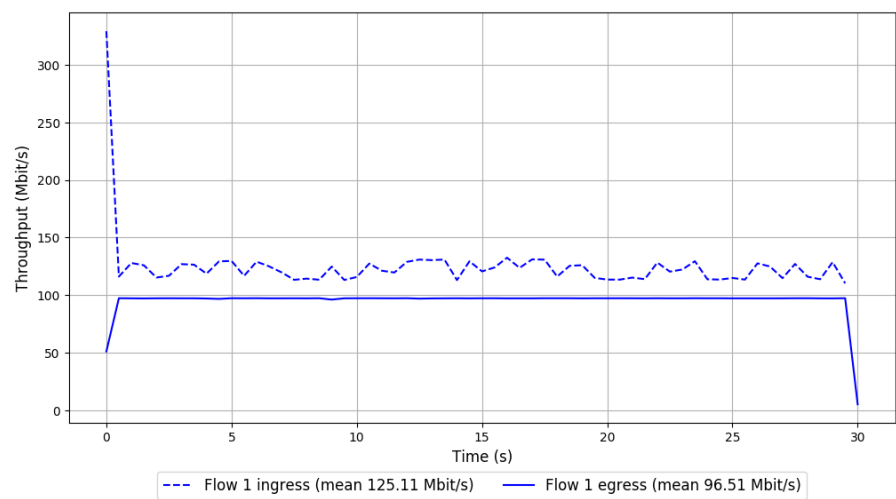
-- Flow 1:

Average throughput: 96.51 Mbit/s

95th percentile per-packet one-way delay: 66.742 ms

Loss rate: 22.77%

Run 10: Report of FillP — Data Link

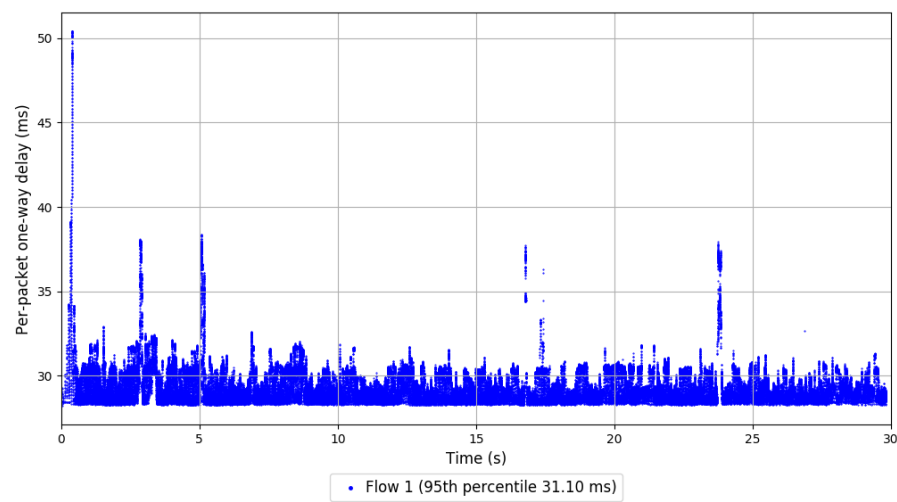
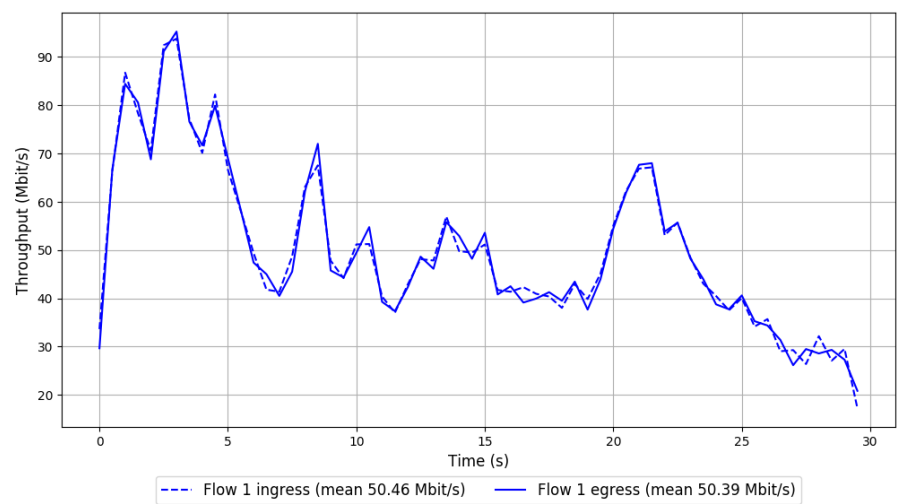


Run 1: Statistics of Indigo-1-32

Start at: 2018-02-20 02:13:01
End at: 2018-02-20 02:13:31
Local clock offset: -5.221 ms
Remote clock offset: -5.192 ms

Below is generated by plot.py at 2018-02-20 07:08:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.39 Mbit/s
95th percentile per-packet one-way delay: 31.097 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 50.39 Mbit/s
95th percentile per-packet one-way delay: 31.097 ms
Loss rate: 0.13%

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

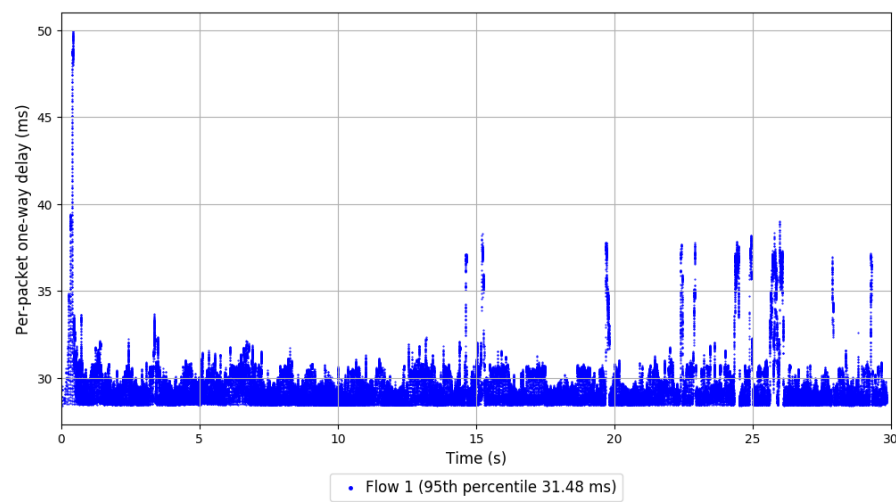
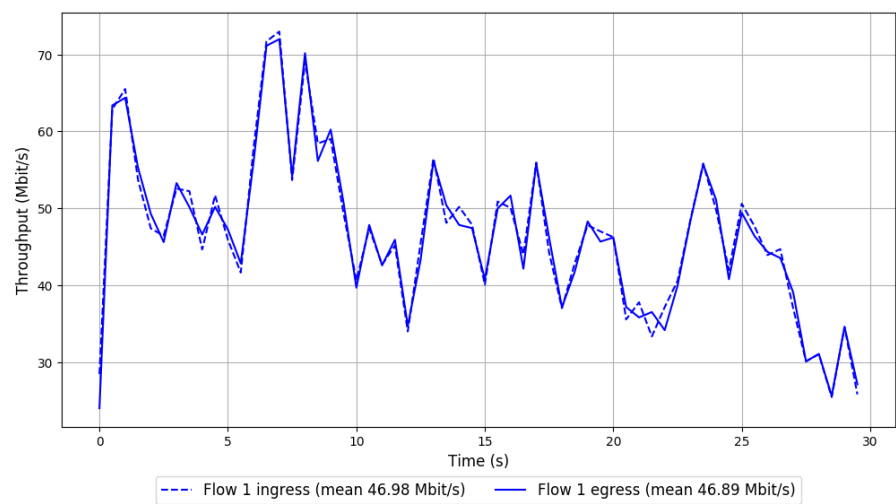


Run 2: Statistics of Indigo-1-32

Start at: 2018-02-20 02:44:35
End at: 2018-02-20 02:45:05
Local clock offset: -3.278 ms
Remote clock offset: -1.463 ms

Below is generated by plot.py at 2018-02-20 07:08:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 46.89 Mbit/s
95th percentile per-packet one-way delay: 31.478 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 46.89 Mbit/s
95th percentile per-packet one-way delay: 31.478 ms
Loss rate: 0.20%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-20 03:13:48

End at: 2018-02-20 03:14:18

Local clock offset: 4.526 ms

Remote clock offset: -5.427 ms

Below is generated by plot.py at 2018-02-20 07:08:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.98 Mbit/s

95th percentile per-packet one-way delay: 33.988 ms

Loss rate: 0.05%

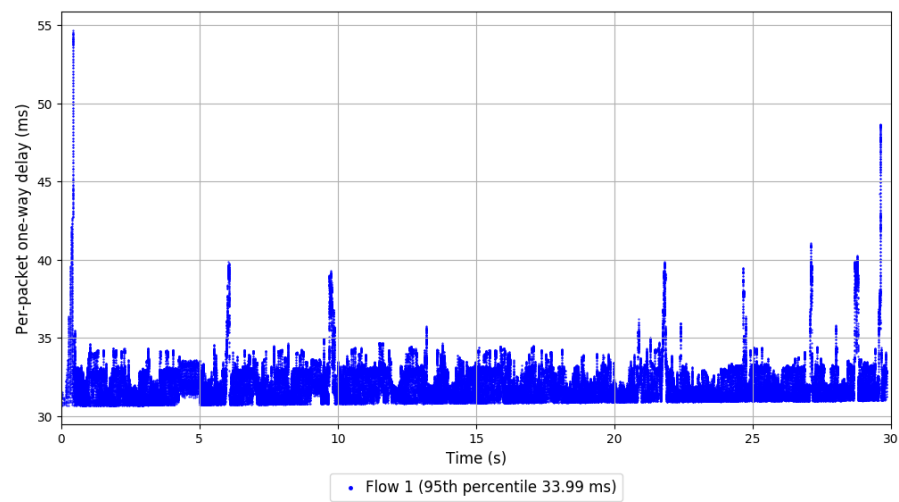
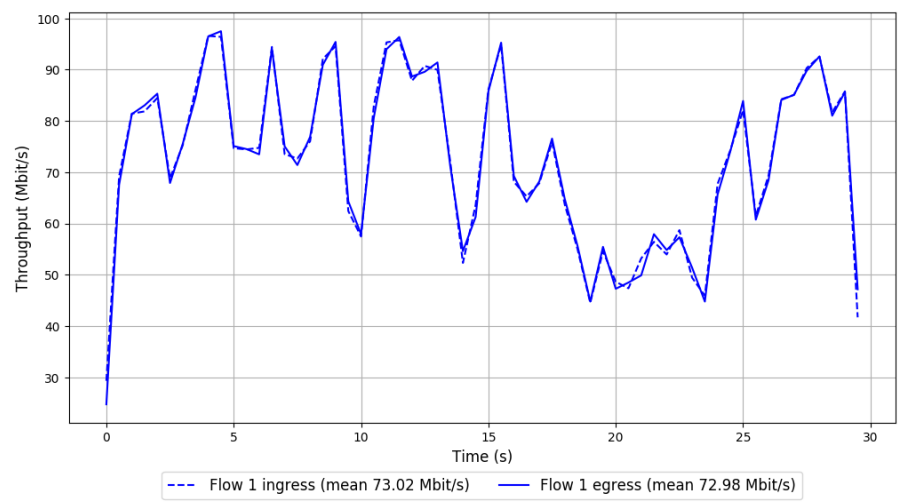
-- Flow 1:

Average throughput: 72.98 Mbit/s

95th percentile per-packet one-way delay: 33.988 ms

Loss rate: 0.05%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-20 03:42:16

End at: 2018-02-20 03:42:46

Local clock offset: 3.223 ms

Remote clock offset: -10.715 ms

Below is generated by plot.py at 2018-02-20 07:08:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.34 Mbit/s

95th percentile per-packet one-way delay: 35.112 ms

Loss rate: 0.21%

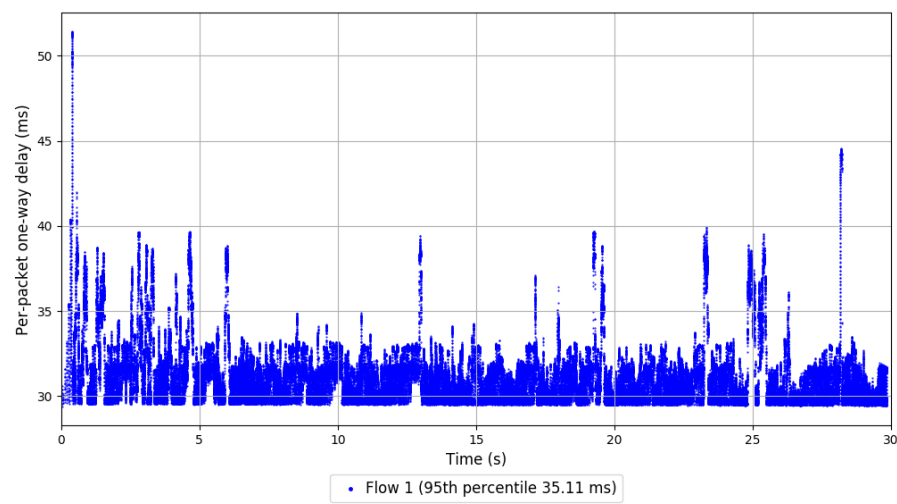
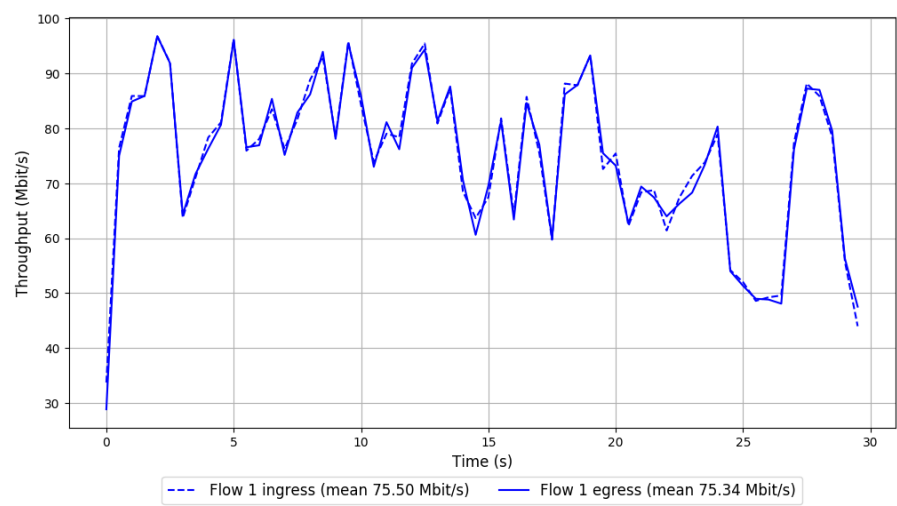
-- Flow 1:

Average throughput: 75.34 Mbit/s

95th percentile per-packet one-way delay: 35.112 ms

Loss rate: 0.21%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-20 04:11:22

End at: 2018-02-20 04:11:52

Local clock offset: -1.132 ms

Remote clock offset: -14.661 ms

Below is generated by plot.py at 2018-02-20 07:08:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.58 Mbit/s

95th percentile per-packet one-way delay: 29.806 ms

Loss rate: 0.04%

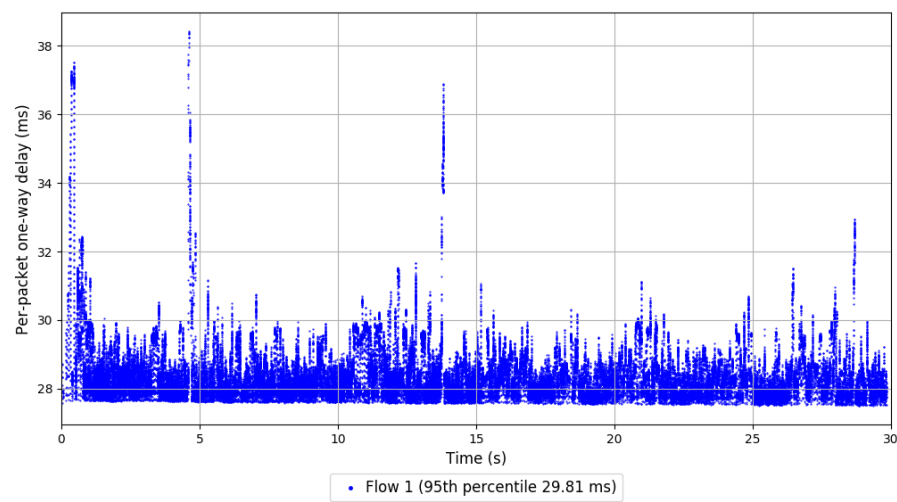
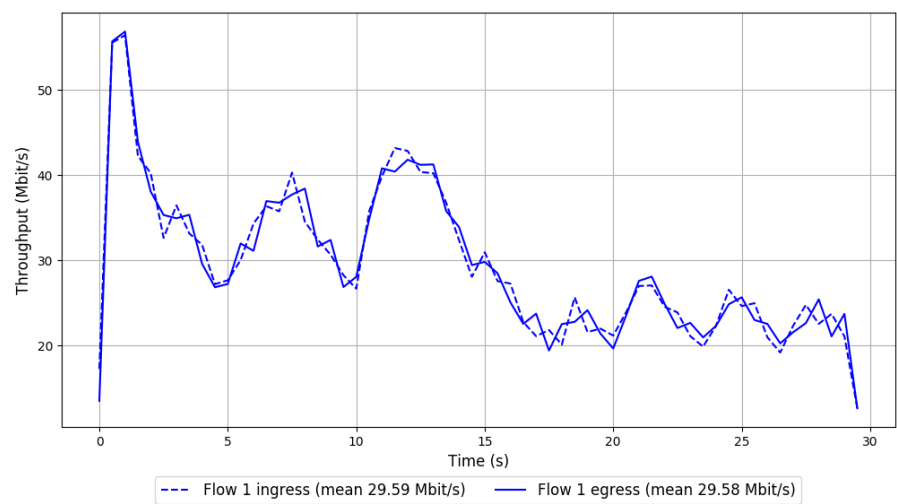
-- Flow 1:

Average throughput: 29.58 Mbit/s

95th percentile per-packet one-way delay: 29.806 ms

Loss rate: 0.04%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-20 04:39:54

End at: 2018-02-20 04:40:24

Local clock offset: -6.644 ms

Remote clock offset: -6.943 ms

Below is generated by plot.py at 2018-02-20 07:08:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.32 Mbit/s

95th percentile per-packet one-way delay: 33.446 ms

Loss rate: 0.03%

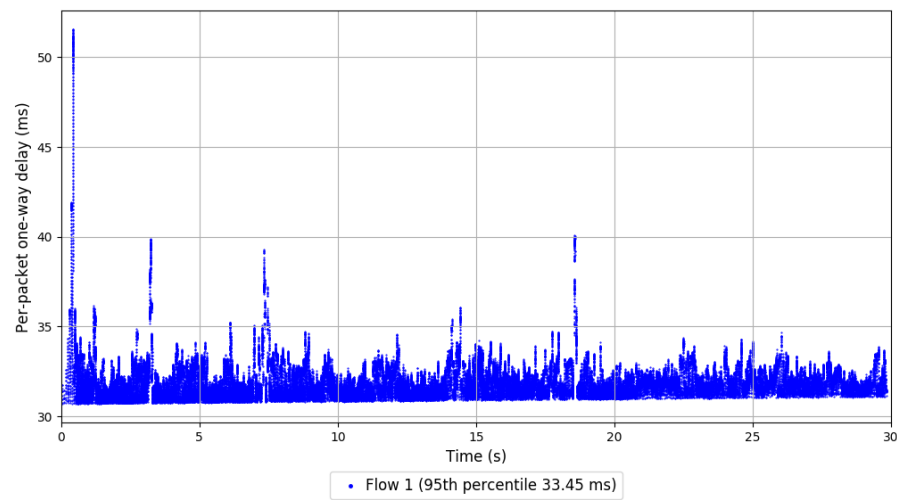
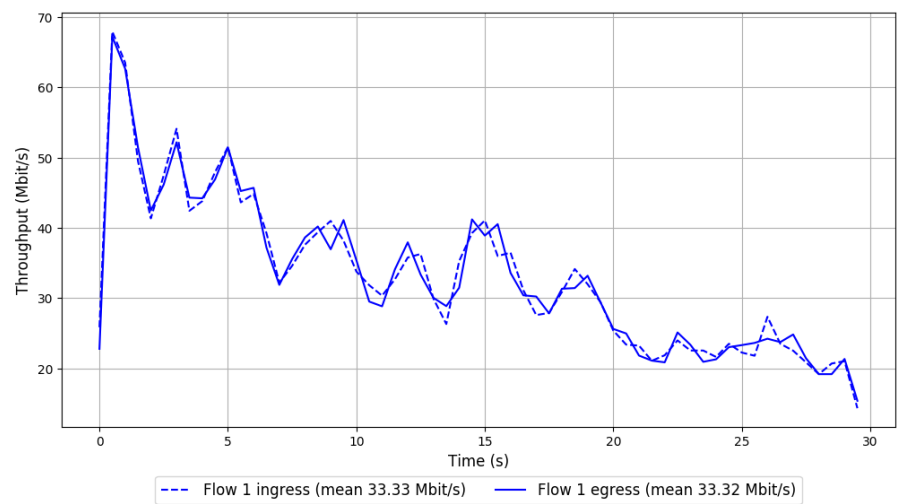
-- Flow 1:

Average throughput: 33.32 Mbit/s

95th percentile per-packet one-way delay: 33.446 ms

Loss rate: 0.03%

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

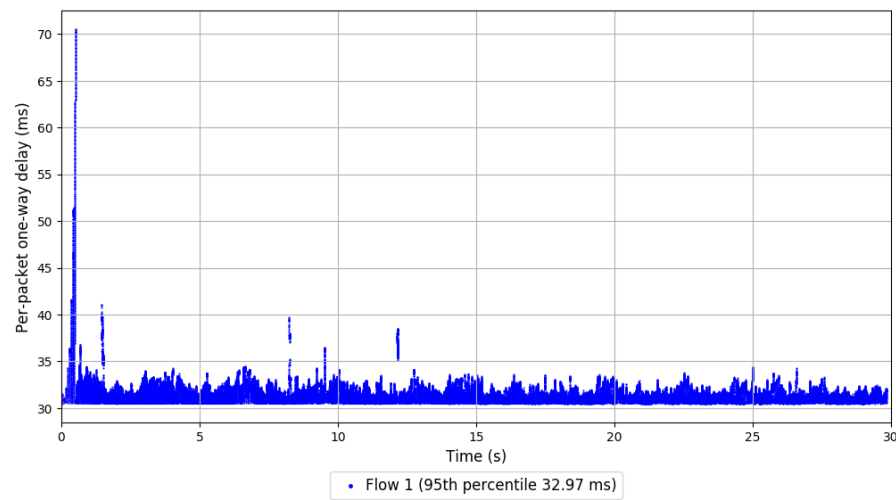
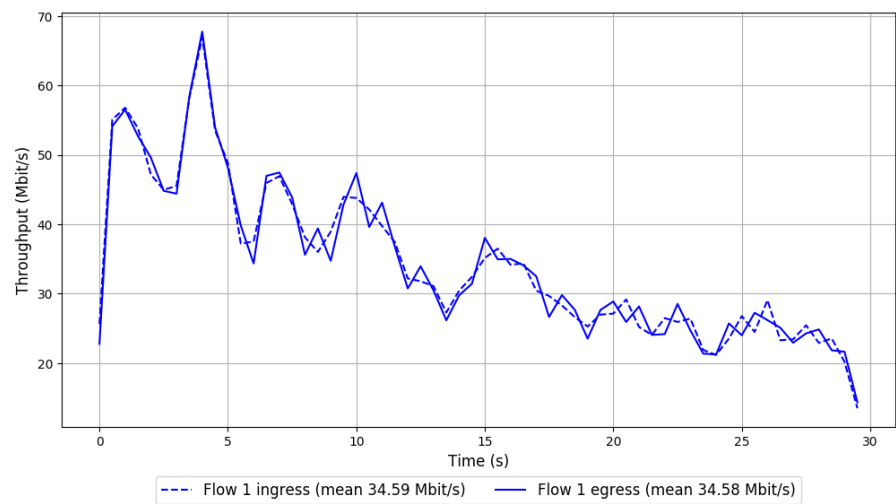


Run 7: Statistics of Indigo-1-32

Start at: 2018-02-20 05:07:01
End at: 2018-02-20 05:07:31
Local clock offset: 0.341 ms
Remote clock offset: -1.501 ms

Below is generated by plot.py at 2018-02-20 07:08:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 34.58 Mbit/s
95th percentile per-packet one-way delay: 32.965 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 34.58 Mbit/s
95th percentile per-packet one-way delay: 32.965 ms
Loss rate: 0.03%

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

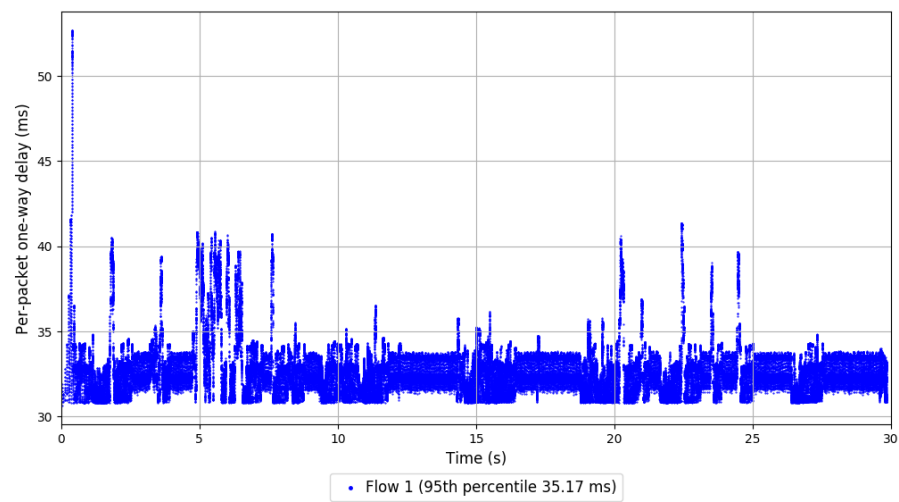
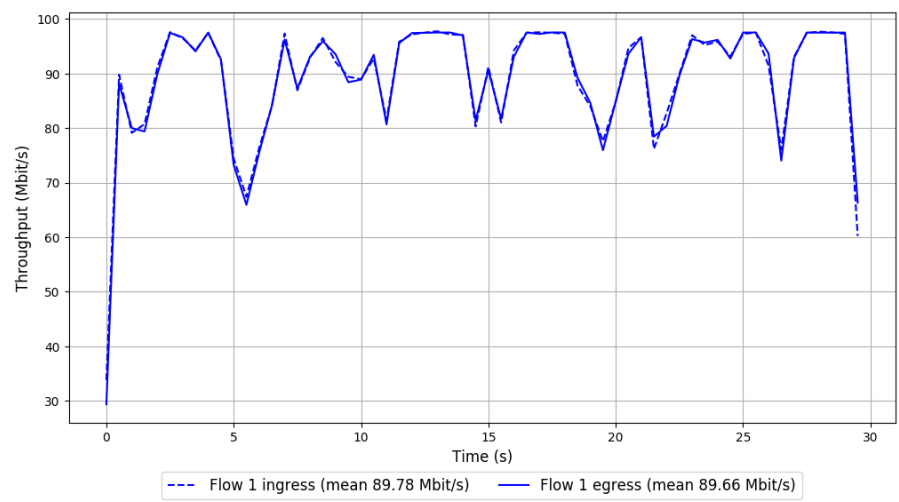


Run 8: Statistics of Indigo-1-32

Start at: 2018-02-20 05:35:46
End at: 2018-02-20 05:36:16
Local clock offset: 0.256 ms
Remote clock offset: -2.682 ms

Below is generated by plot.py at 2018-02-20 07:09:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.66 Mbit/s
95th percentile per-packet one-way delay: 35.168 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 89.66 Mbit/s
95th percentile per-packet one-way delay: 35.168 ms
Loss rate: 0.13%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-20 06:00:22

End at: 2018-02-20 06:00:52

Local clock offset: 2.398 ms

Remote clock offset: -4.295 ms

Below is generated by plot.py at 2018-02-20 07:09:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.83 Mbit/s

95th percentile per-packet one-way delay: 36.205 ms

Loss rate: 1.42%

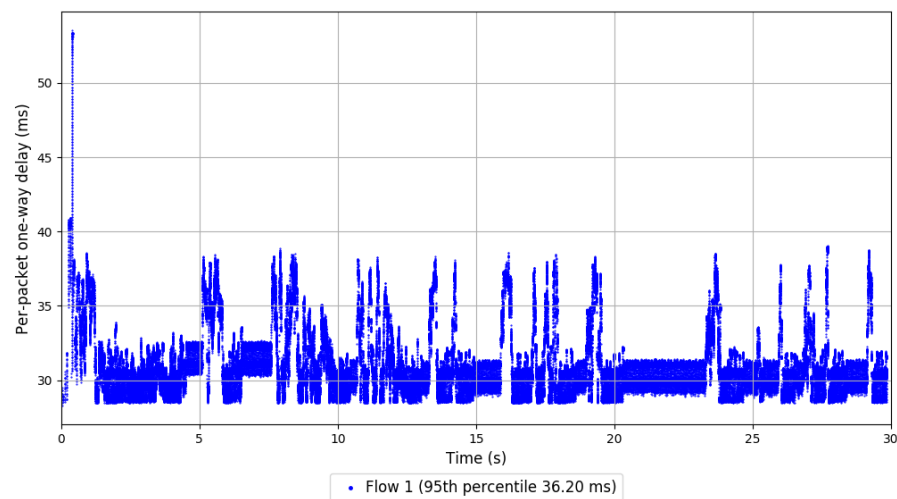
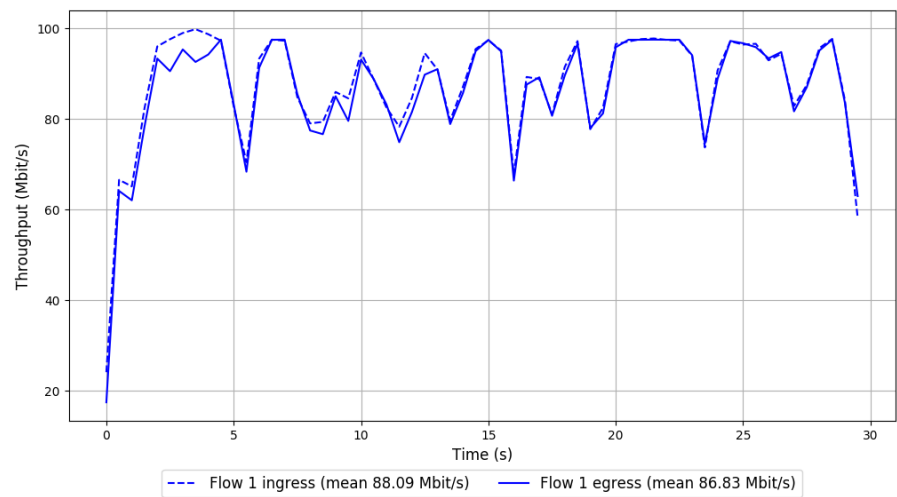
-- Flow 1:

Average throughput: 86.83 Mbit/s

95th percentile per-packet one-way delay: 36.205 ms

Loss rate: 1.42%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-20 06:27:17

End at: 2018-02-20 06:27:48

Local clock offset: 0.567 ms

Remote clock offset: -0.649 ms

Below is generated by plot.py at 2018-02-20 07:09:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.57 Mbit/s

95th percentile per-packet one-way delay: 37.862 ms

Loss rate: 0.42%

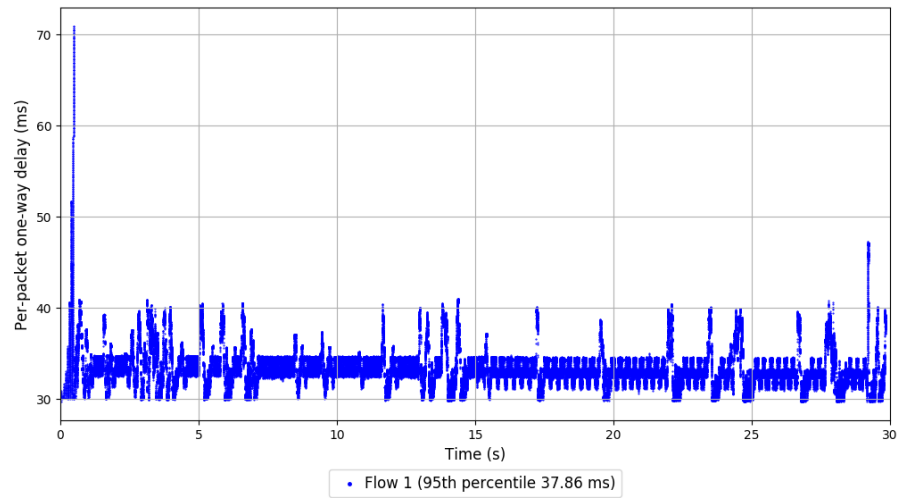
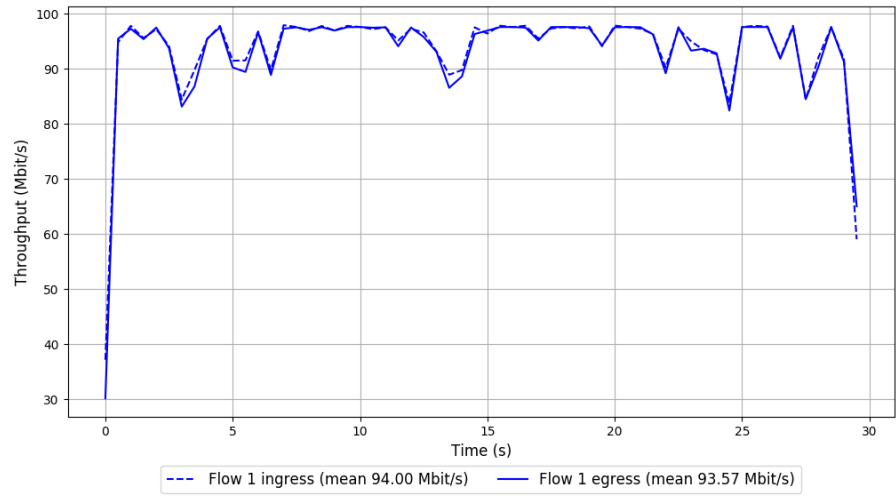
-- Flow 1:

Average throughput: 93.57 Mbit/s

95th percentile per-packet one-way delay: 37.862 ms

Loss rate: 0.42%

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

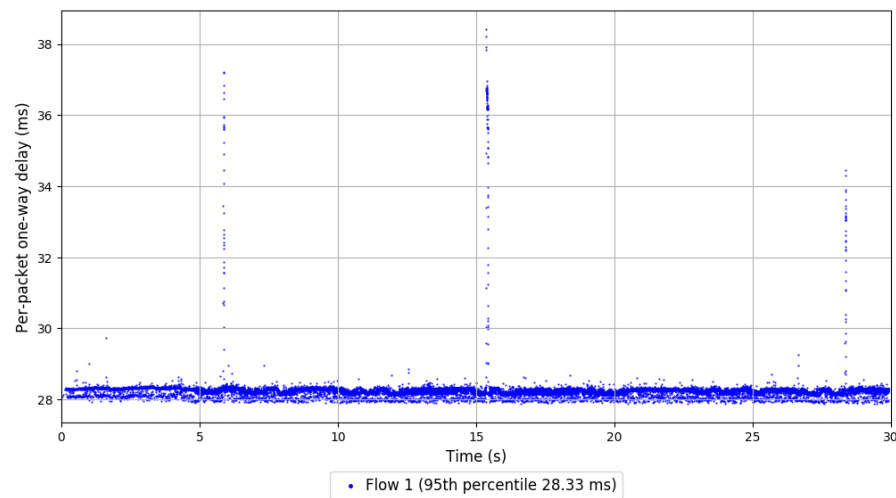
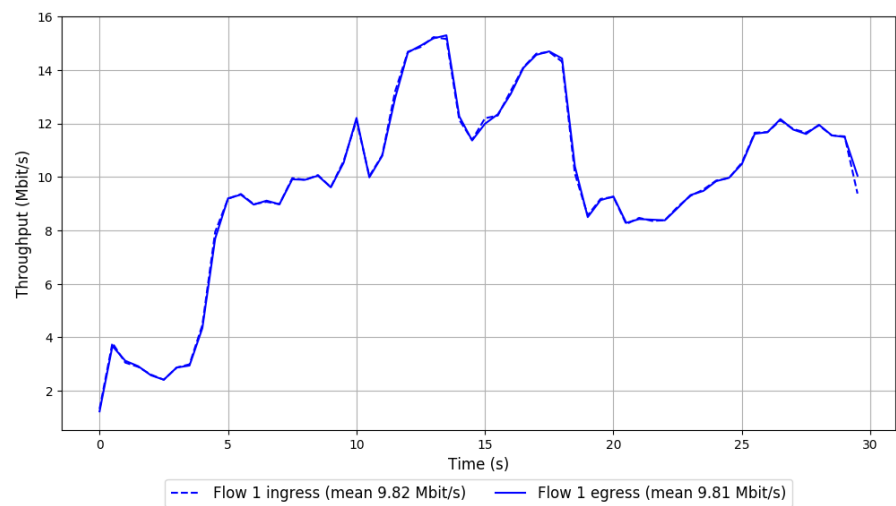


Run 1: Statistics of Vivace-latency

Start at: 2018-02-20 02:11:39
End at: 2018-02-20 02:12:09
Local clock offset: -5.169 ms
Remote clock offset: -5.342 ms

Below is generated by plot.py at 2018-02-20 07:09:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.81 Mbit/s
95th percentile per-packet one-way delay: 28.326 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 9.81 Mbit/s
95th percentile per-packet one-way delay: 28.326 ms
Loss rate: 0.03%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-20 02:43:14

End at: 2018-02-20 02:43:44

Local clock offset: -3.293 ms

Remote clock offset: 0.519 ms

Below is generated by plot.py at 2018-02-20 07:09:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 30.786 ms

Loss rate: 0.09%

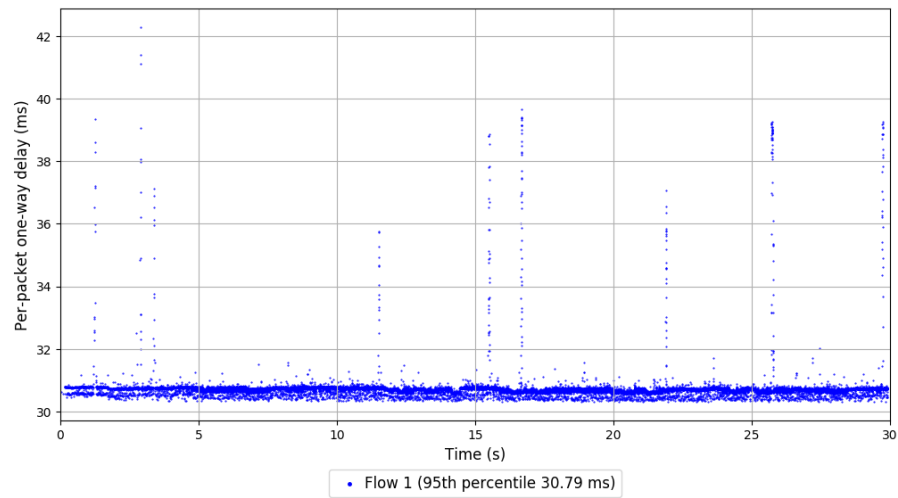
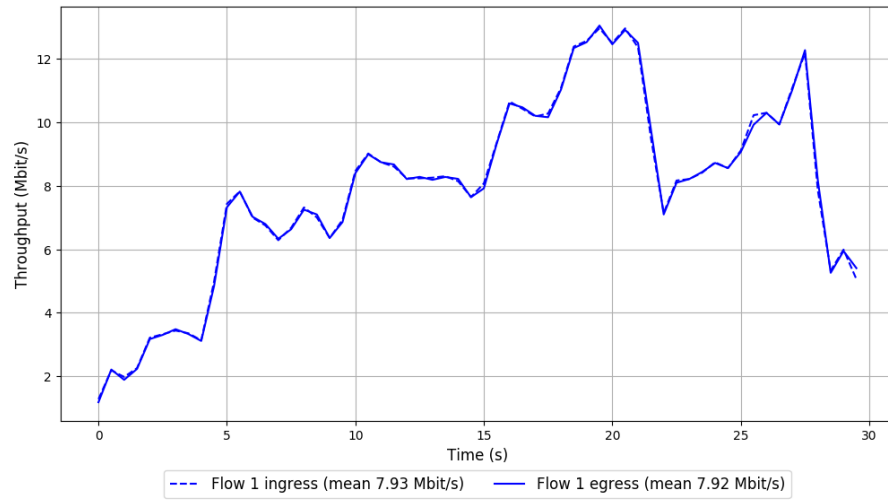
-- Flow 1:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 30.786 ms

Loss rate: 0.09%

Run 2: Report of Vivace-latency — Data Link

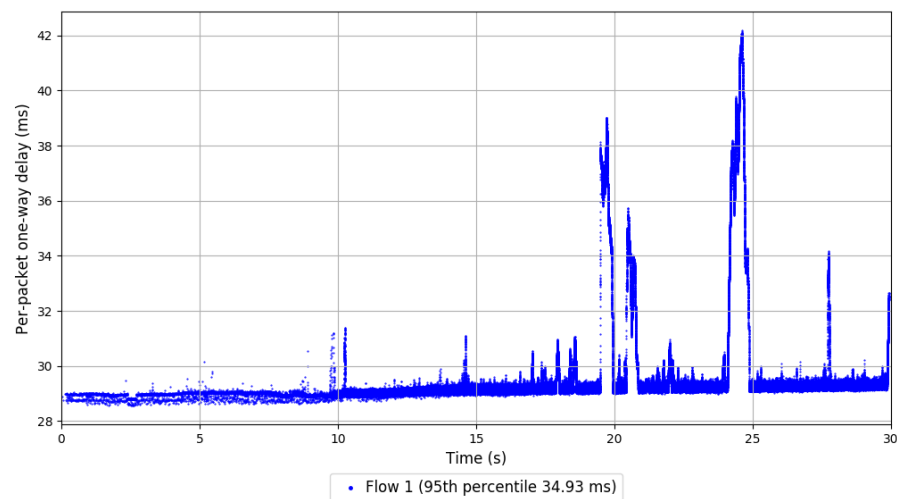
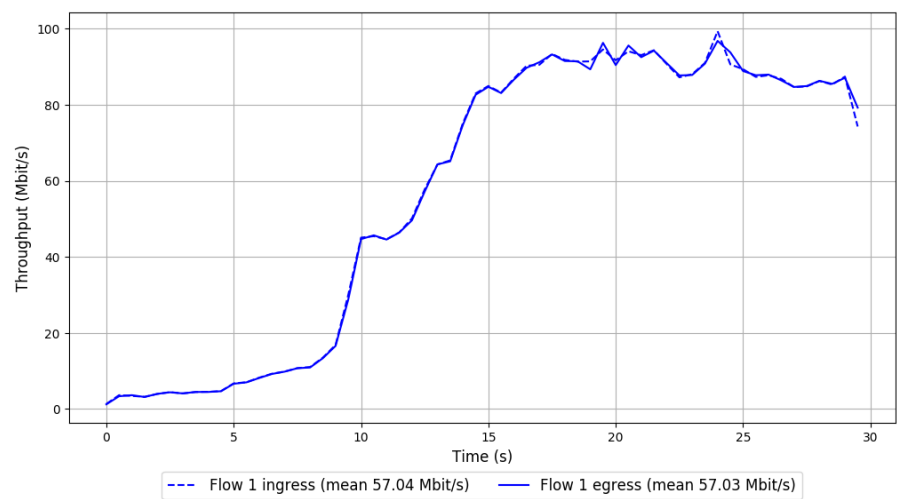


Run 3: Statistics of Vivace-latency

Start at: 2018-02-20 03:12:10
End at: 2018-02-20 03:12:40
Local clock offset: 4.243 ms
Remote clock offset: -6.48 ms

Below is generated by plot.py at 2018-02-20 07:09:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 57.03 Mbit/s
95th percentile per-packet one-way delay: 34.929 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 57.03 Mbit/s
95th percentile per-packet one-way delay: 34.929 ms
Loss rate: 0.02%

Run 3: Report of Vivace-latency — Data Link

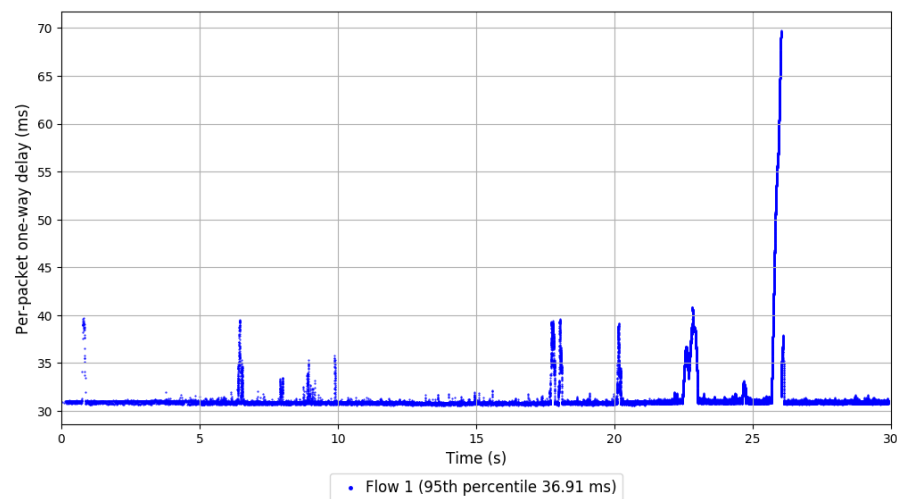
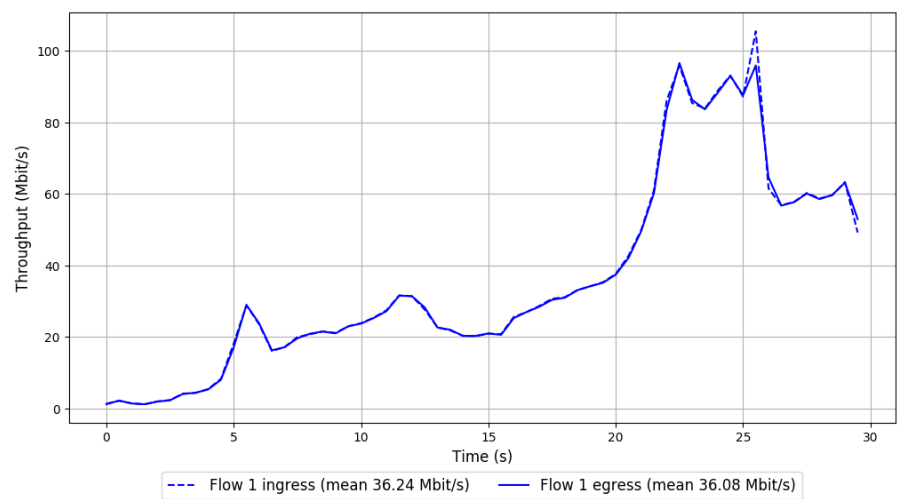


Run 4: Statistics of Vivace-latency

Start at: 2018-02-20 03:40:50
End at: 2018-02-20 03:41:20
Local clock offset: 3.444 ms
Remote clock offset: -10.157 ms

Below is generated by plot.py at 2018-02-20 07:09:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 36.08 Mbit/s
95th percentile per-packet one-way delay: 36.905 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 36.08 Mbit/s
95th percentile per-packet one-way delay: 36.905 ms
Loss rate: 0.43%

Run 4: Report of Vivace-latency — Data Link

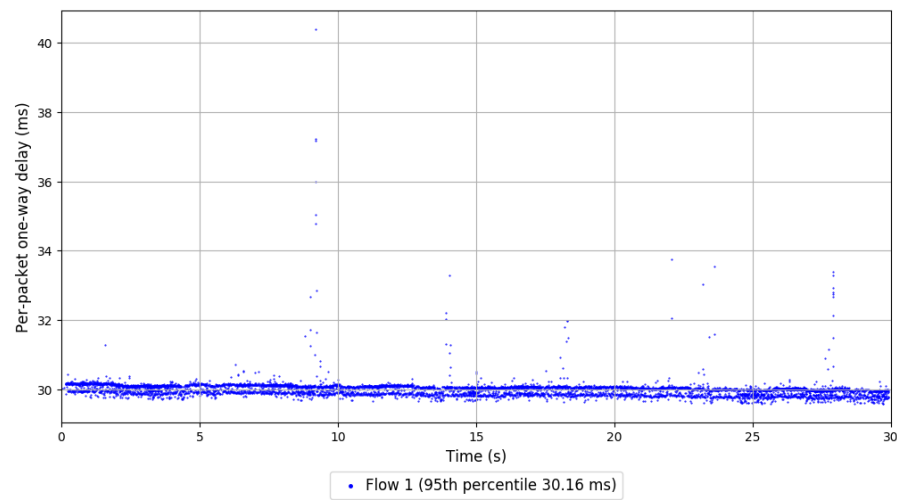
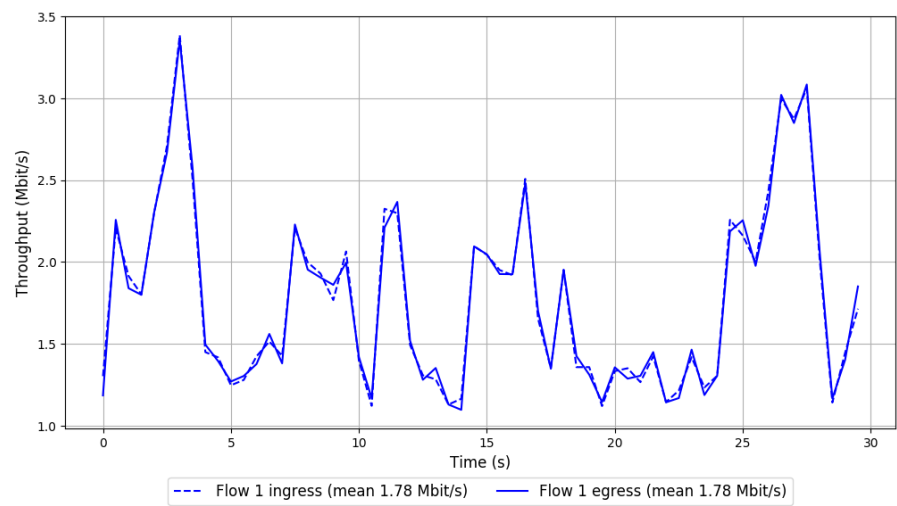


Run 5: Statistics of Vivace-latency

Start at: 2018-02-20 04:10:05
End at: 2018-02-20 04:10:35
Local clock offset: -0.454 ms
Remote clock offset: -12.086 ms

Below is generated by plot.py at 2018-02-20 07:09:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.78 Mbit/s
95th percentile per-packet one-way delay: 30.162 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.78 Mbit/s
95th percentile per-packet one-way delay: 30.162 ms
Loss rate: 0.00%

Run 5: Report of Vivace-latency — Data Link

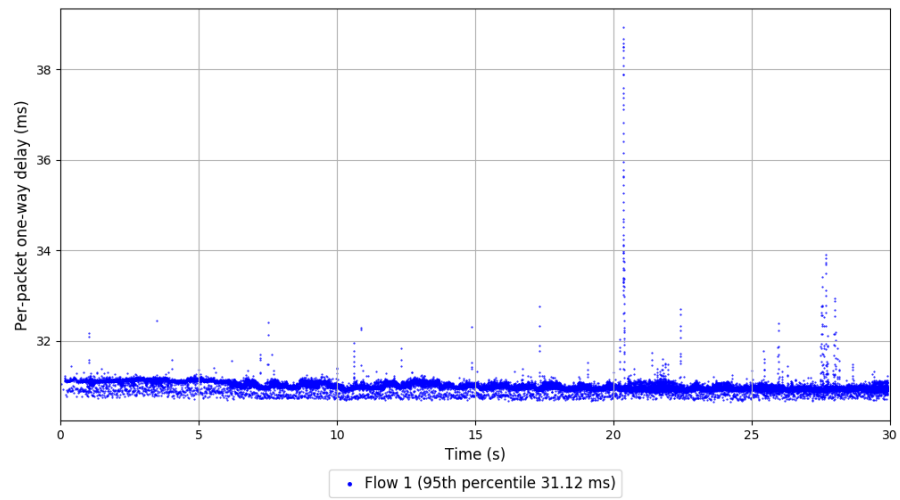
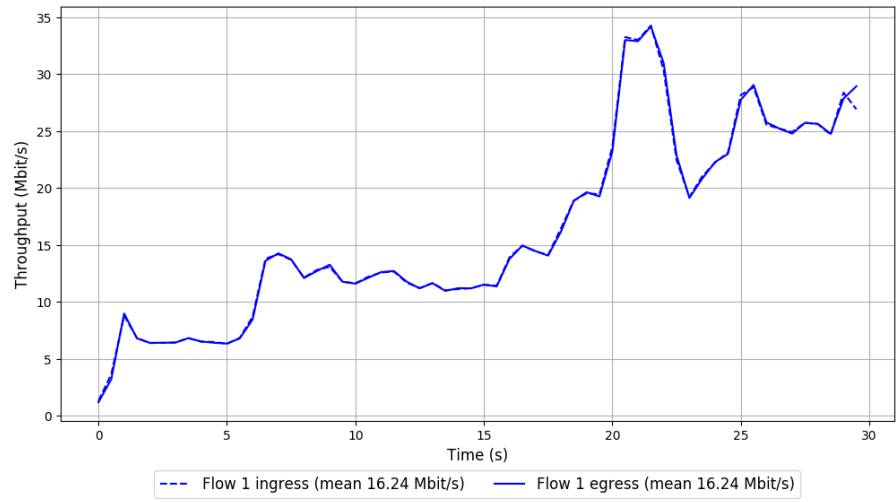


Run 6: Statistics of Vivace-latency

Start at: 2018-02-20 04:38:28
End at: 2018-02-20 04:38:58
Local clock offset: -6.479 ms
Remote clock offset: -6.522 ms

Below is generated by plot.py at 2018-02-20 07:09:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 16.24 Mbit/s
95th percentile per-packet one-way delay: 31.119 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 16.24 Mbit/s
95th percentile per-packet one-way delay: 31.119 ms
Loss rate: 0.00%

Run 6: Report of Vivace-latency — Data Link

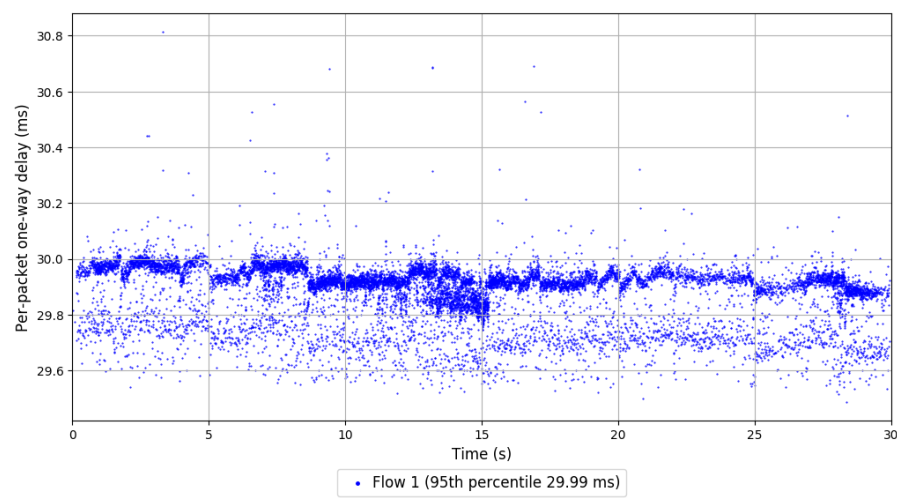
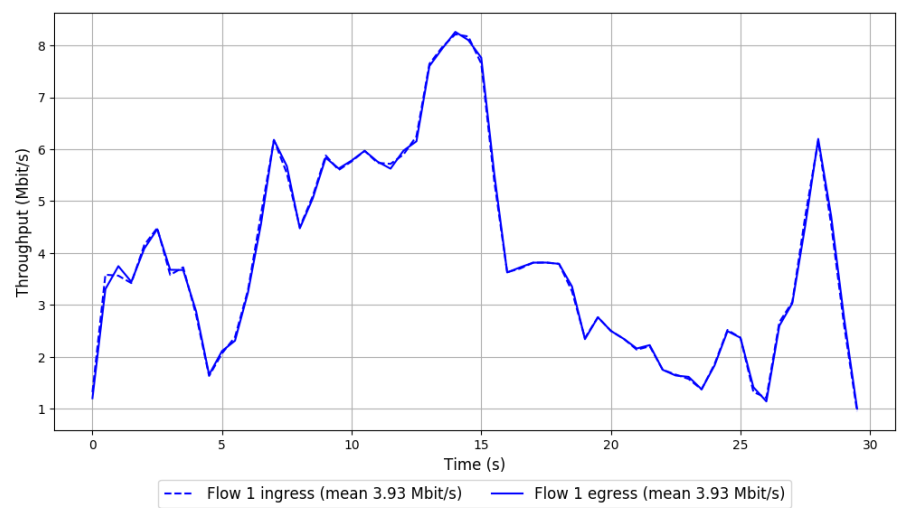


Run 7: Statistics of Vivace-latency

Start at: 2018-02-20 05:05:43
End at: 2018-02-20 05:06:13
Local clock offset: 0.289 ms
Remote clock offset: -1.786 ms

Below is generated by plot.py at 2018-02-20 07:09:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.93 Mbit/s
95th percentile per-packet one-way delay: 29.992 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.93 Mbit/s
95th percentile per-packet one-way delay: 29.992 ms
Loss rate: 0.00%

Run 7: Report of Vivace-latency — Data Link

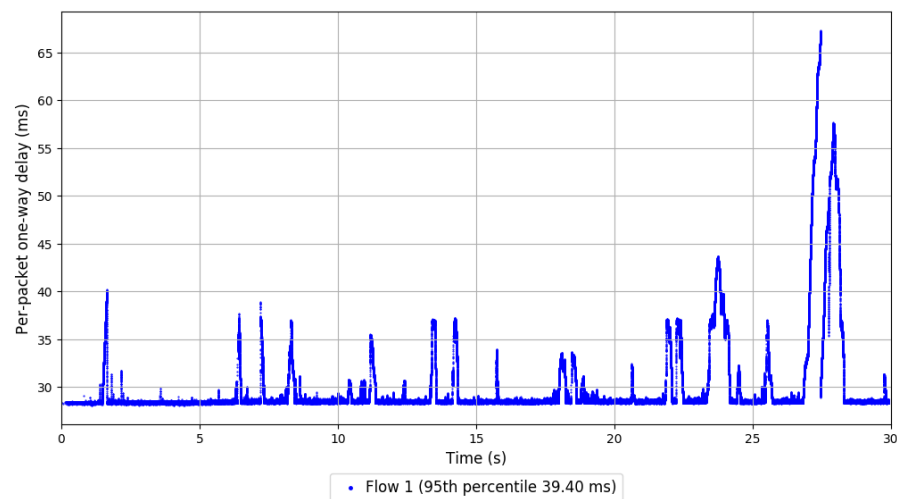
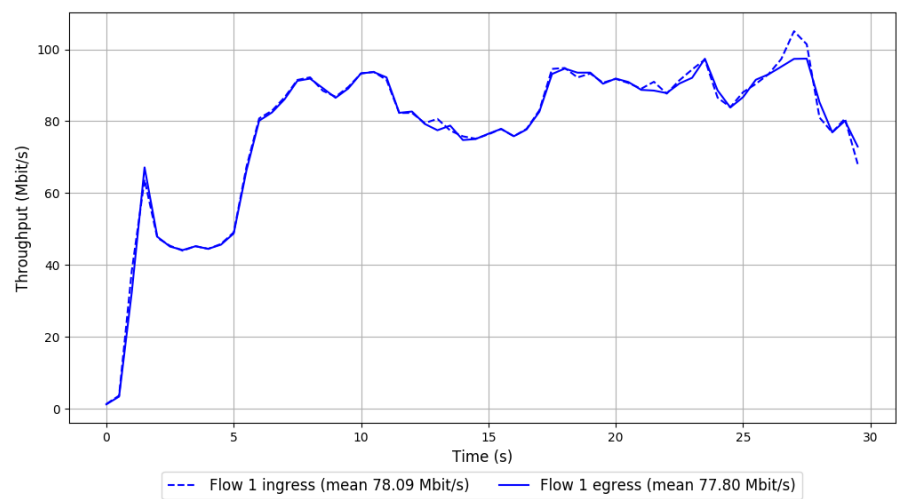


Run 8: Statistics of Vivace-latency

Start at: 2018-02-20 05:34:17
End at: 2018-02-20 05:34:47
Local clock offset: 0.245 ms
Remote clock offset: -5.175 ms

Below is generated by plot.py at 2018-02-20 07:10:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.80 Mbit/s
95th percentile per-packet one-way delay: 39.403 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 77.80 Mbit/s
95th percentile per-packet one-way delay: 39.403 ms
Loss rate: 0.38%

Run 8: Report of Vivace-latency — Data Link

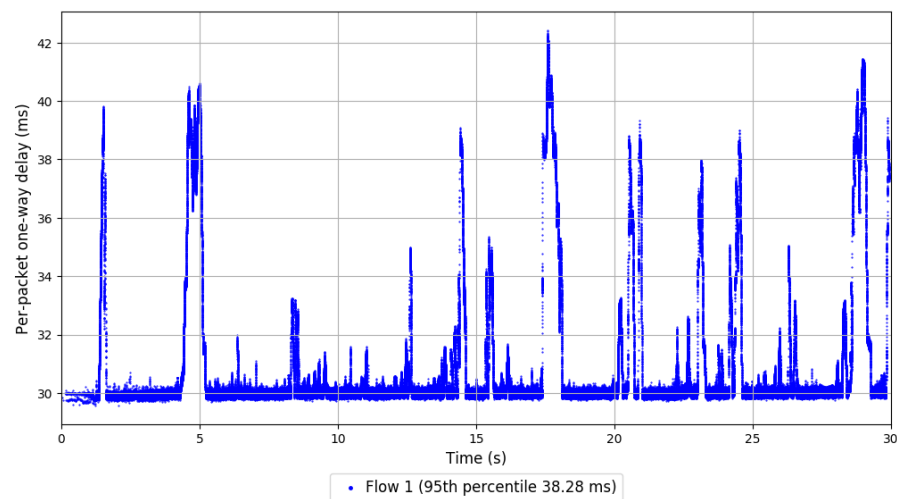
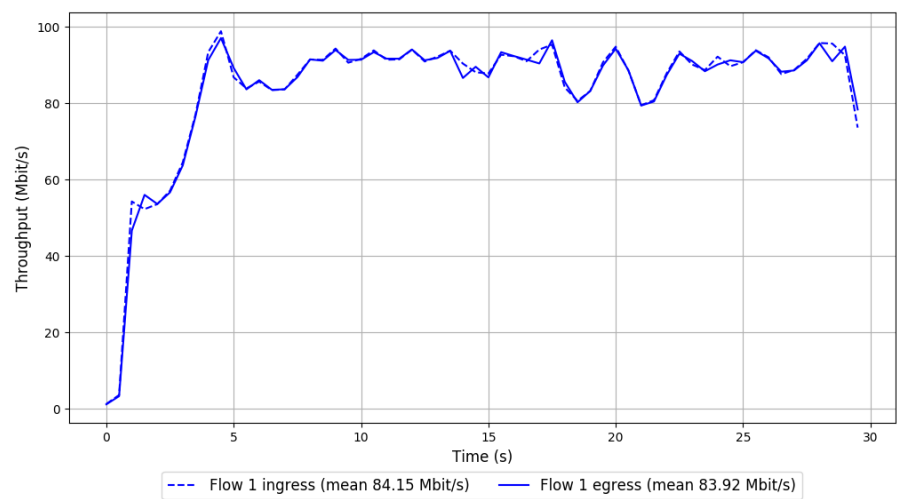


Run 9: Statistics of Vivace-latency

Start at: 2018-02-20 05:59:00
End at: 2018-02-20 05:59:30
Local clock offset: 2.163 ms
Remote clock offset: -2.455 ms

Below is generated by plot.py at 2018-02-20 07:10:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 83.92 Mbit/s
95th percentile per-packet one-way delay: 38.276 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 83.92 Mbit/s
95th percentile per-packet one-way delay: 38.276 ms
Loss rate: 0.24%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-20 06:25:54

End at: 2018-02-20 06:26:24

Local clock offset: 1.349 ms

Remote clock offset: -3.267 ms

Below is generated by plot.py at 2018-02-20 07:10:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.23 Mbit/s

95th percentile per-packet one-way delay: 34.207 ms

Loss rate: 0.21%

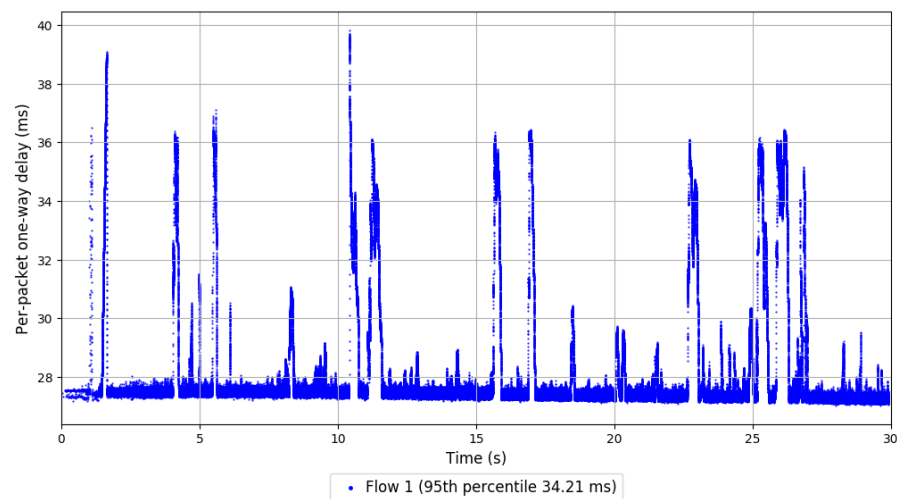
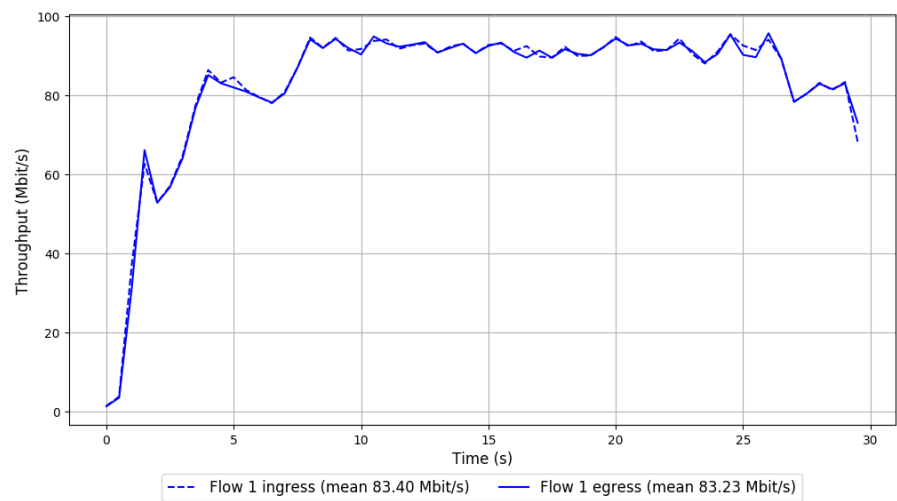
-- Flow 1:

Average throughput: 83.23 Mbit/s

95th percentile per-packet one-way delay: 34.207 ms

Loss rate: 0.21%

Run 10: Report of Vivace-latency — Data Link

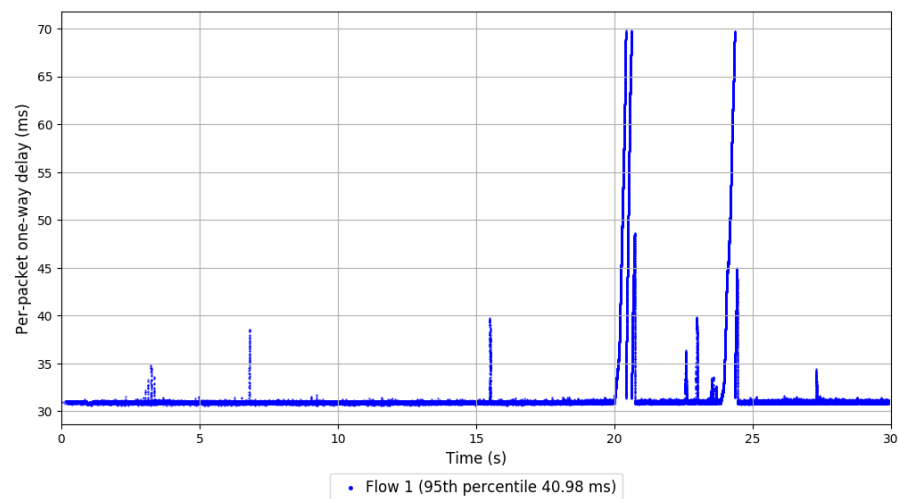
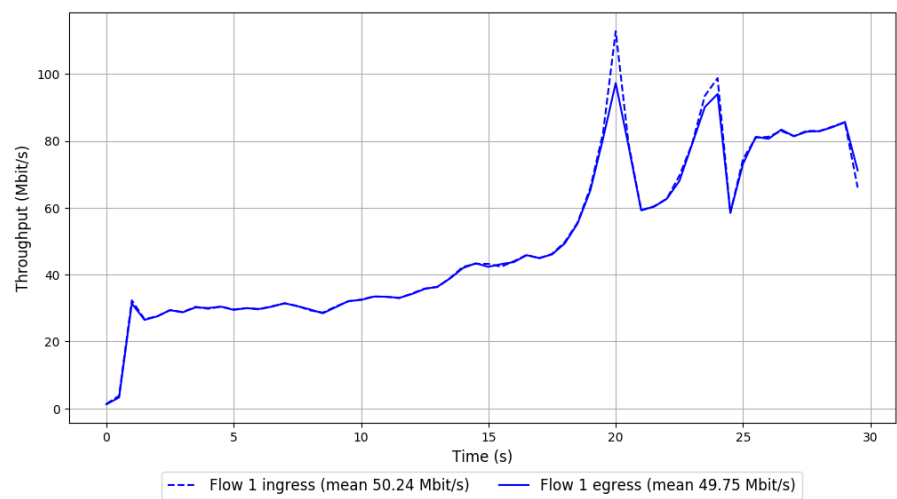


Run 1: Statistics of Vivace-loss

Start at: 2018-02-20 01:54:18
End at: 2018-02-20 01:54:48
Local clock offset: -4.663 ms
Remote clock offset: -1.383 ms

Below is generated by plot.py at 2018-02-20 07:10:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 49.75 Mbit/s
95th percentile per-packet one-way delay: 40.982 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 49.75 Mbit/s
95th percentile per-packet one-way delay: 40.982 ms
Loss rate: 0.96%

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-20 02:23:44

End at: 2018-02-20 02:24:14

Local clock offset: -5.55 ms

Remote clock offset: -5.05 ms

Below is generated by plot.py at 2018-02-20 07:10:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.13 Mbit/s

95th percentile per-packet one-way delay: 64.394 ms

Loss rate: 3.43%

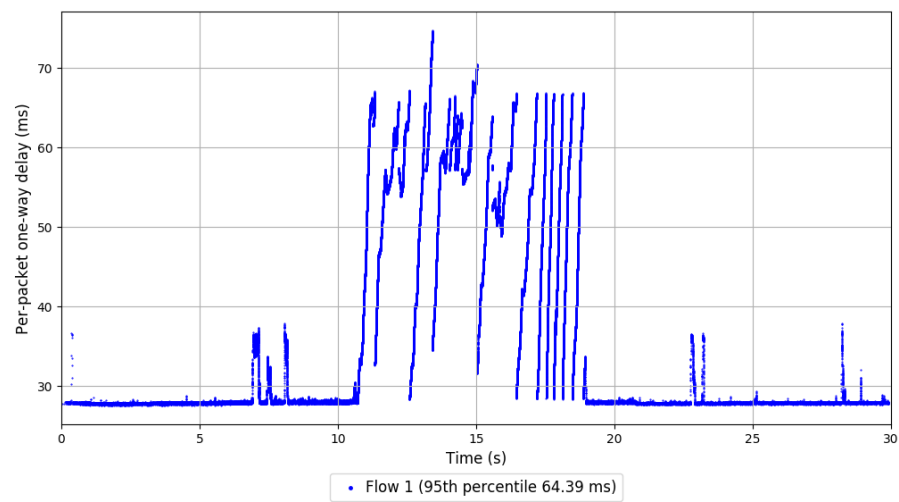
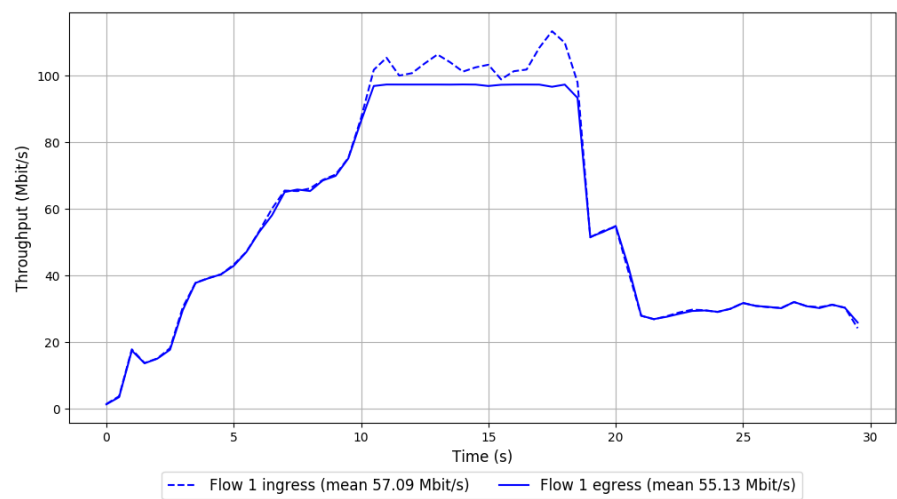
-- Flow 1:

Average throughput: 55.13 Mbit/s

95th percentile per-packet one-way delay: 64.394 ms

Loss rate: 3.43%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-20 02:55:36

End at: 2018-02-20 02:56:06

Local clock offset: -2.9 ms

Remote clock offset: 1.733 ms

Below is generated by plot.py at 2018-02-20 07:10:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.59 Mbit/s

95th percentile per-packet one-way delay: 57.906 ms

Loss rate: 2.52%

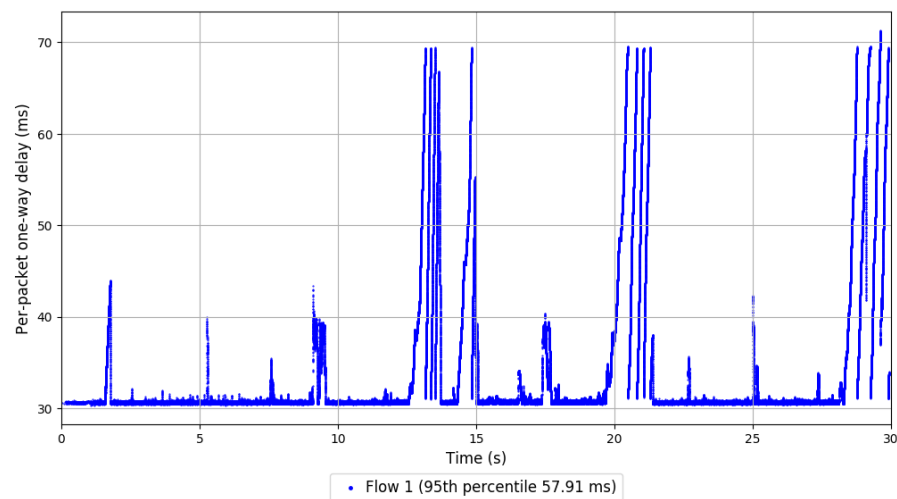
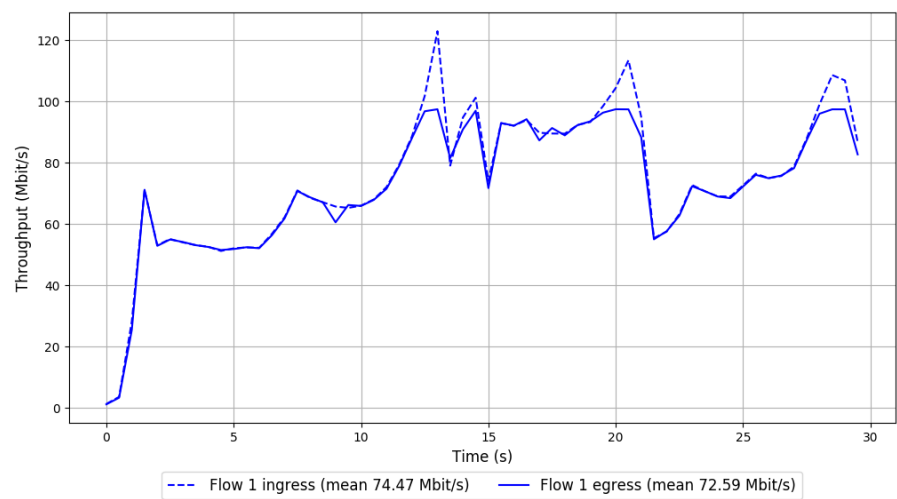
-- Flow 1:

Average throughput: 72.59 Mbit/s

95th percentile per-packet one-way delay: 57.906 ms

Loss rate: 2.52%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-20 03:24:20

End at: 2018-02-20 03:24:50

Local clock offset: 6.551 ms

Remote clock offset: -8.125 ms

Below is generated by plot.py at 2018-02-20 07:10:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.08 Mbit/s

95th percentile per-packet one-way delay: 64.660 ms

Loss rate: 3.15%

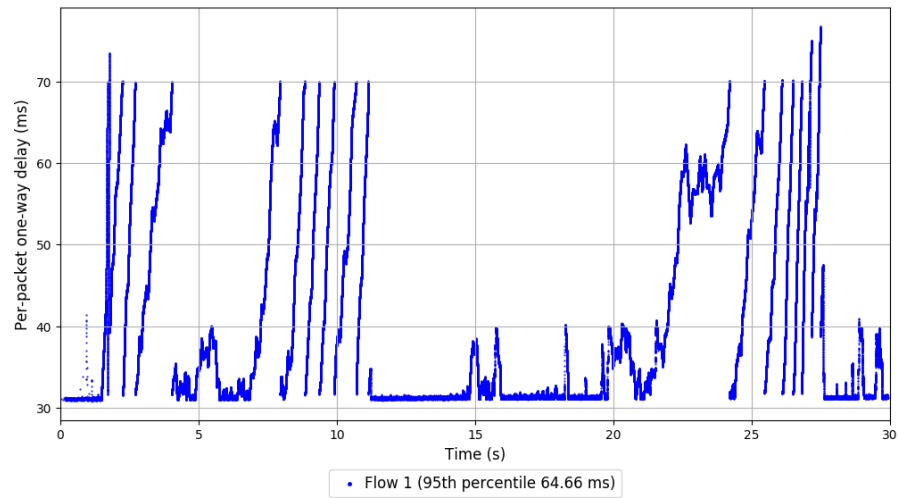
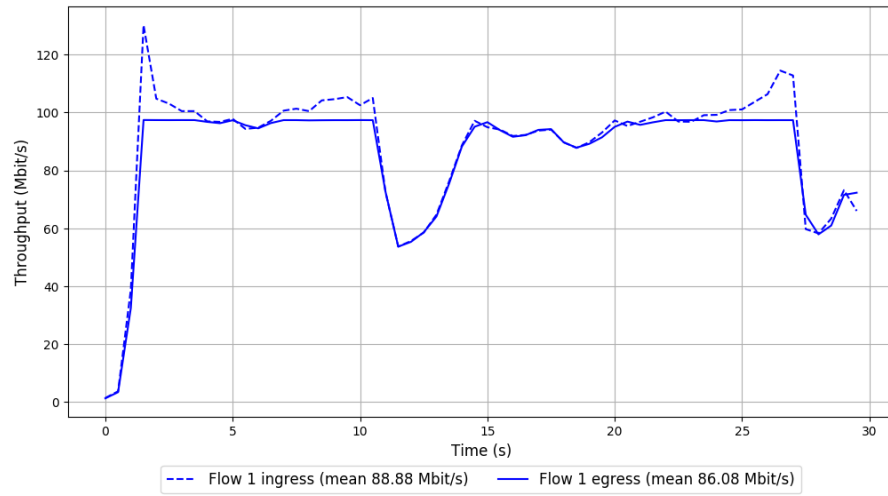
-- Flow 1:

Average throughput: 86.08 Mbit/s

95th percentile per-packet one-way delay: 64.660 ms

Loss rate: 3.15%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-20 03:52:56

End at: 2018-02-20 03:53:26

Local clock offset: 1.999 ms

Remote clock offset: -11.101 ms

Below is generated by plot.py at 2018-02-20 07:10:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.30 Mbit/s

95th percentile per-packet one-way delay: 56.894 ms

Loss rate: 1.98%

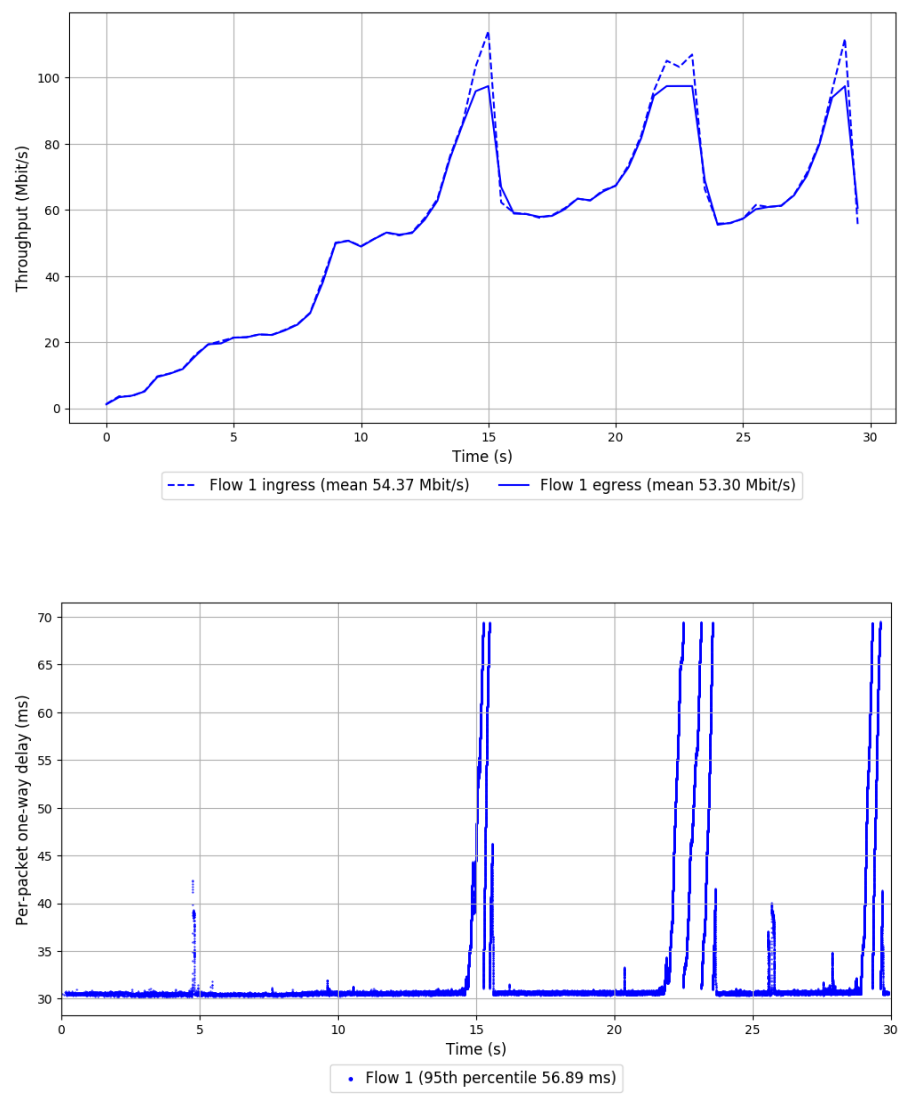
-- Flow 1:

Average throughput: 53.30 Mbit/s

95th percentile per-packet one-way delay: 56.894 ms

Loss rate: 1.98%

Run 5: Report of Vivace-loss — Data Link

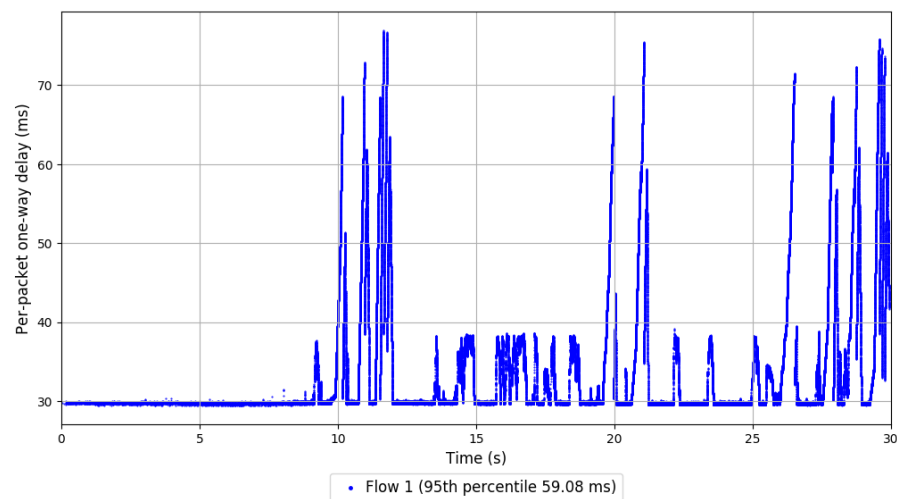
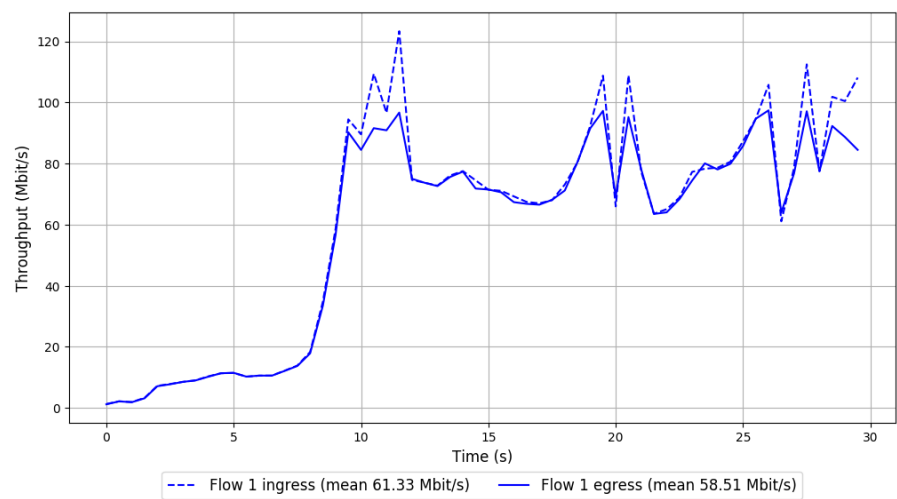


Run 6: Statistics of Vivace-loss

Start at: 2018-02-20 04:22:37
End at: 2018-02-20 04:23:07
Local clock offset: -4.304 ms
Remote clock offset: -8.489 ms

Below is generated by plot.py at 2018-02-20 07:10:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 58.51 Mbit/s
95th percentile per-packet one-way delay: 59.082 ms
Loss rate: 4.56%
-- Flow 1:
Average throughput: 58.51 Mbit/s
95th percentile per-packet one-way delay: 59.082 ms
Loss rate: 4.56%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-20 04:50:05

End at: 2018-02-20 04:50:35

Local clock offset: -1.624 ms

Remote clock offset: -7.21 ms

Below is generated by plot.py at 2018-02-20 07:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.66 Mbit/s

95th percentile per-packet one-way delay: 61.909 ms

Loss rate: 3.38%

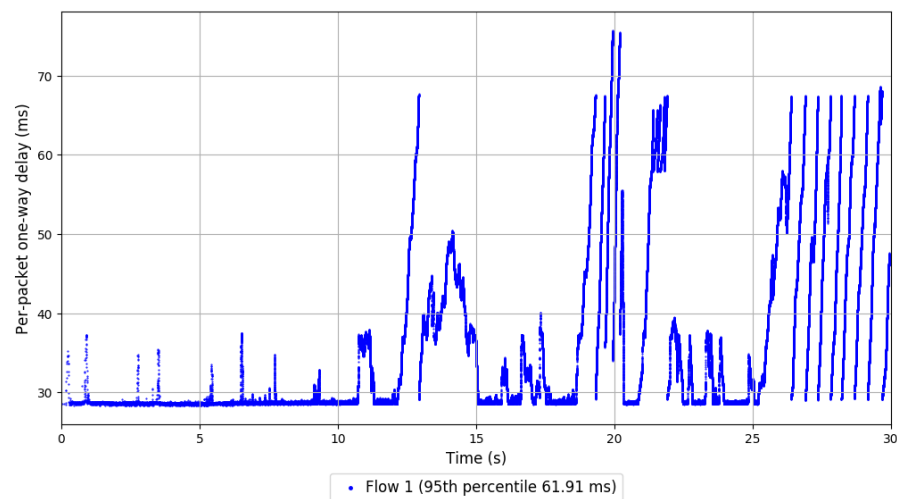
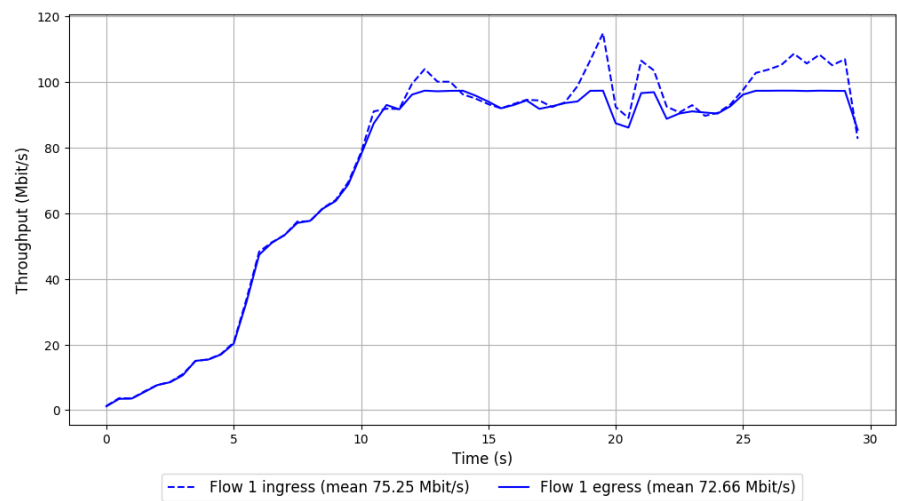
-- Flow 1:

Average throughput: 72.66 Mbit/s

95th percentile per-packet one-way delay: 61.909 ms

Loss rate: 3.38%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-20 05:17:26

End at: 2018-02-20 05:17:56

Local clock offset: 0.537 ms

Remote clock offset: 0.438 ms

Below is generated by plot.py at 2018-02-20 07:11:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.37 Mbit/s

95th percentile per-packet one-way delay: 63.045 ms

Loss rate: 2.48%

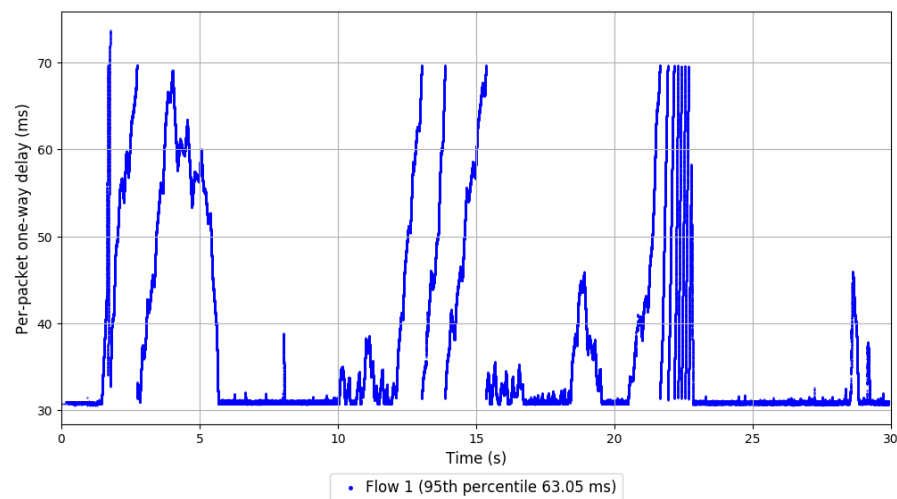
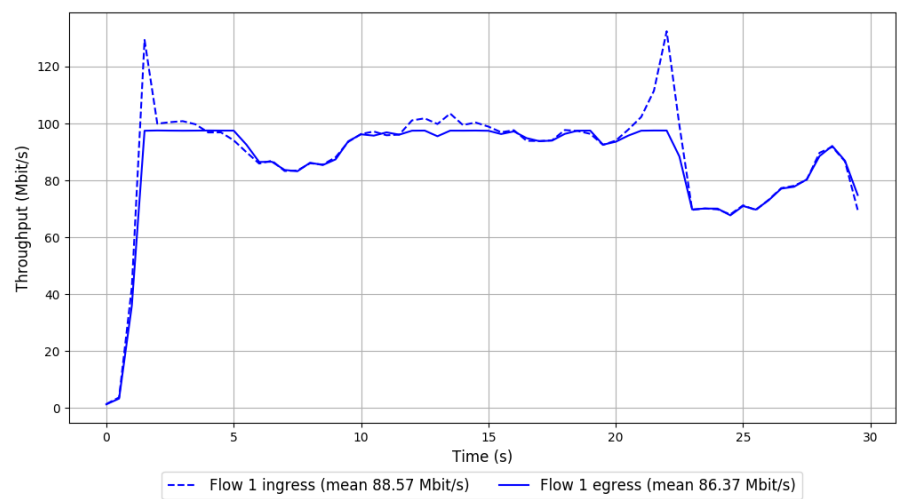
-- Flow 1:

Average throughput: 86.37 Mbit/s

95th percentile per-packet one-way delay: 63.045 ms

Loss rate: 2.48%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-20 05:45:33

End at: 2018-02-20 05:46:03

Local clock offset: 0.265 ms

Remote clock offset: -3.047 ms

Below is generated by plot.py at 2018-02-20 07:11:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.29 Mbit/s

95th percentile per-packet one-way delay: 59.994 ms

Loss rate: 4.75%

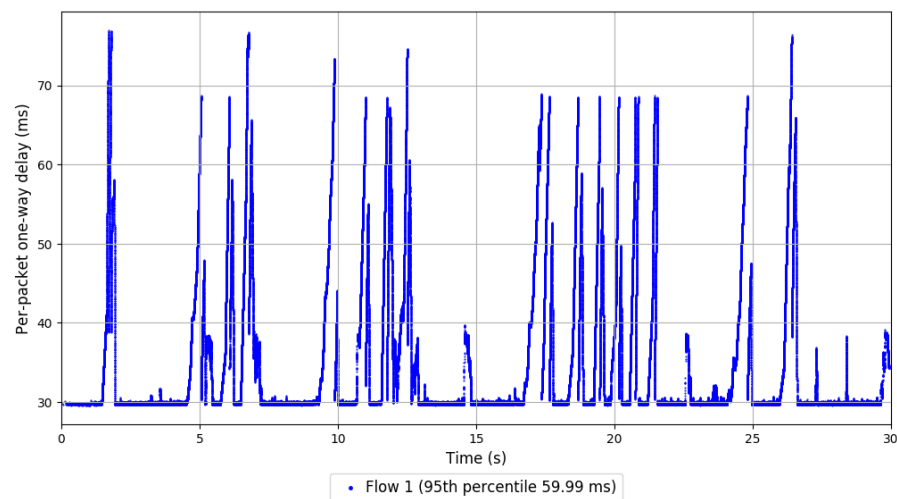
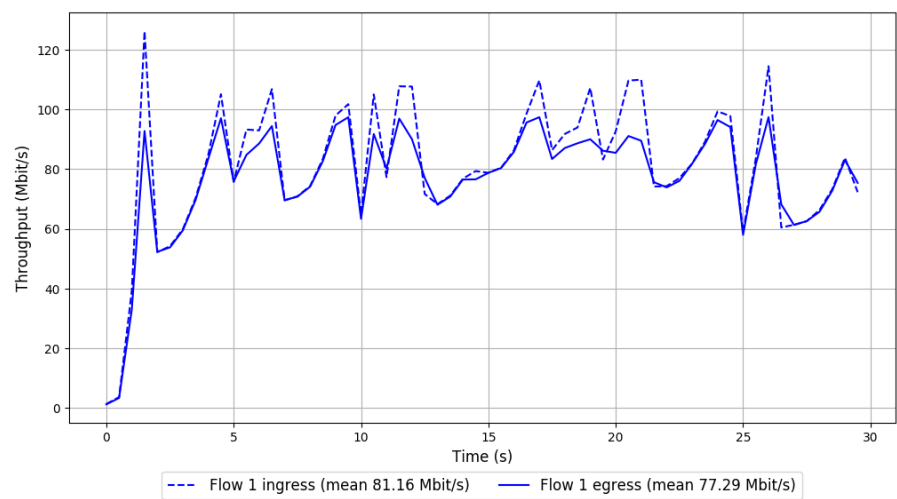
-- Flow 1:

Average throughput: 77.29 Mbit/s

95th percentile per-packet one-way delay: 59.994 ms

Loss rate: 4.75%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-20 06:10:43

End at: 2018-02-20 06:11:13

Local clock offset: 3.182 ms

Remote clock offset: -3.935 ms

Below is generated by plot.py at 2018-02-20 07:11:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.14 Mbit/s

95th percentile per-packet one-way delay: 36.127 ms

Loss rate: 0.66%

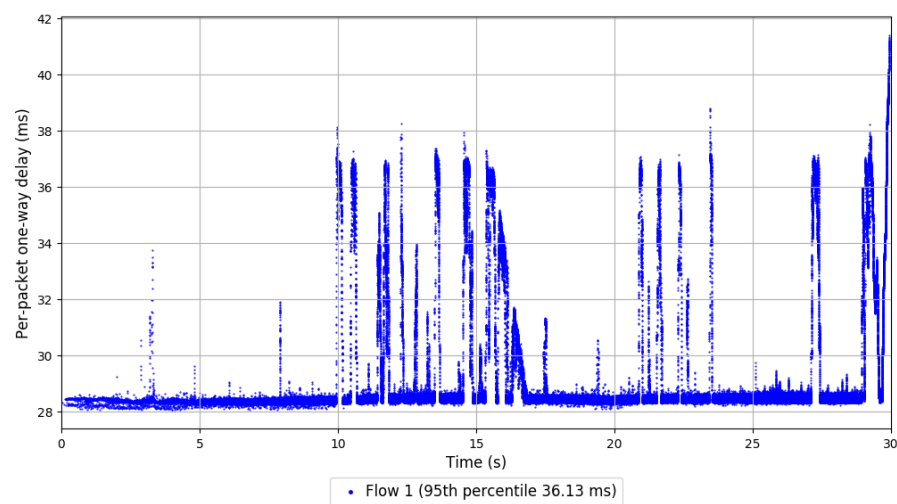
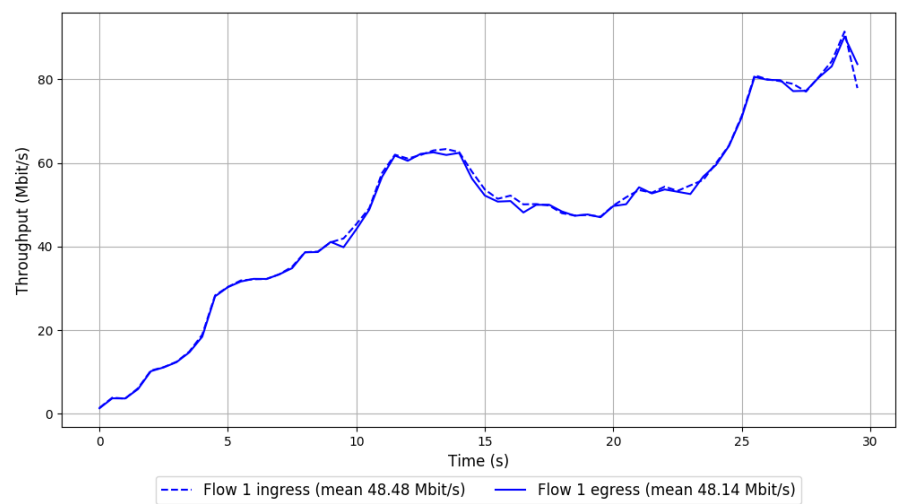
-- Flow 1:

Average throughput: 48.14 Mbit/s

95th percentile per-packet one-way delay: 36.127 ms

Loss rate: 0.66%

Run 10: Report of Vivace-loss — Data Link

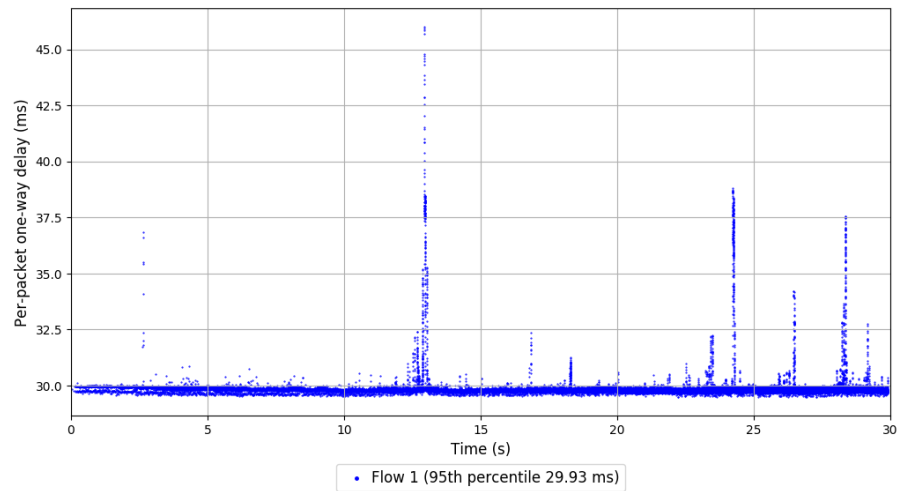
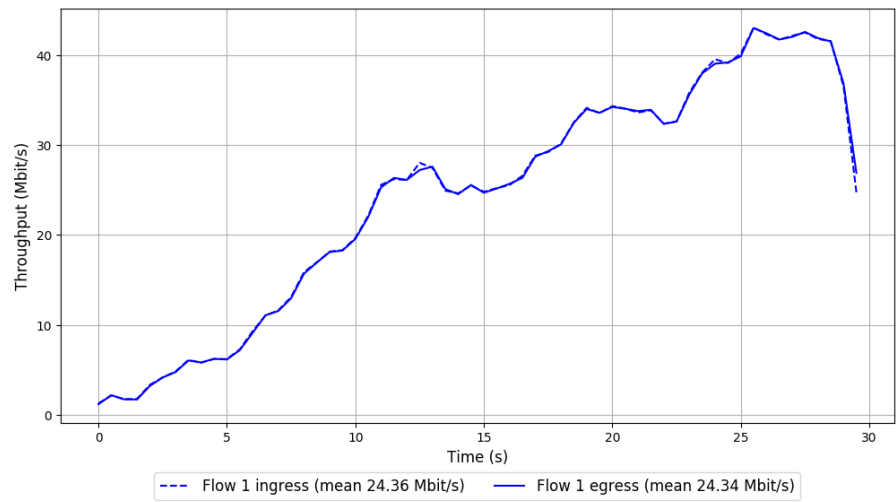


Run 1: Statistics of Vivace-LTE

Start at: 2018-02-20 01:49:48
End at: 2018-02-20 01:50:18
Local clock offset: -4.332 ms
Remote clock offset: -1.883 ms

Below is generated by plot.py at 2018-02-20 07:11:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.34 Mbit/s
95th percentile per-packet one-way delay: 29.933 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 24.34 Mbit/s
95th percentile per-packet one-way delay: 29.933 ms
Loss rate: 0.06%

Run 1: Report of Vivace-LTE — Data Link

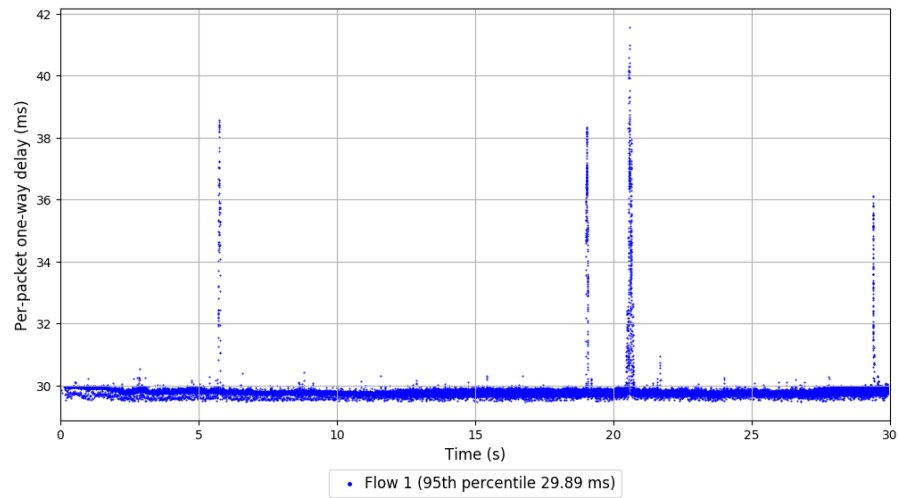
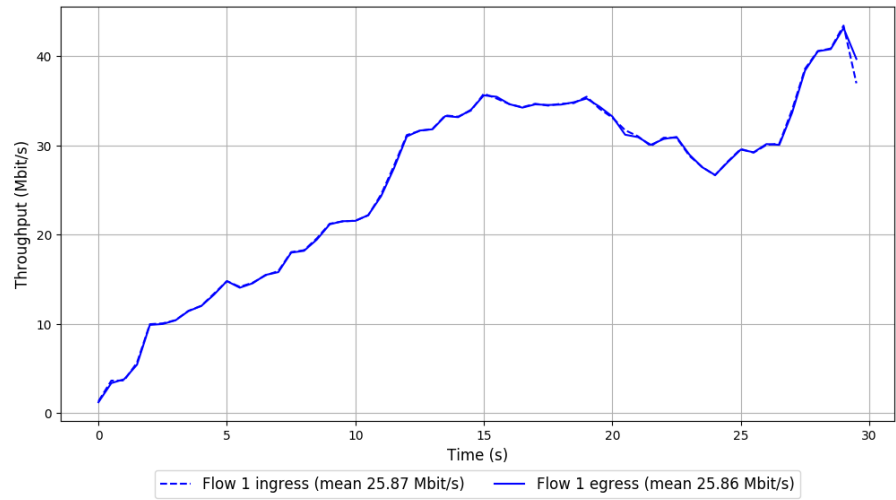


Run 2: Statistics of Vivace-LTE

Start at: 2018-02-20 02:19:16
End at: 2018-02-20 02:19:46
Local clock offset: -5.492 ms
Remote clock offset: -3.099 ms

Below is generated by plot.py at 2018-02-20 07:11:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 25.86 Mbit/s
95th percentile per-packet one-way delay: 29.890 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 25.86 Mbit/s
95th percentile per-packet one-way delay: 29.890 ms
Loss rate: 0.04%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-20 02:50:48

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

Local clock offset: -2.971 ms

Remote clock offset: 1.29 ms

Below is generated by plot.py at 2018-02-20 07:12:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.82 Mbit/s

95th percentile per-packet one-way delay: 36.909 ms

Loss rate: 0.77%

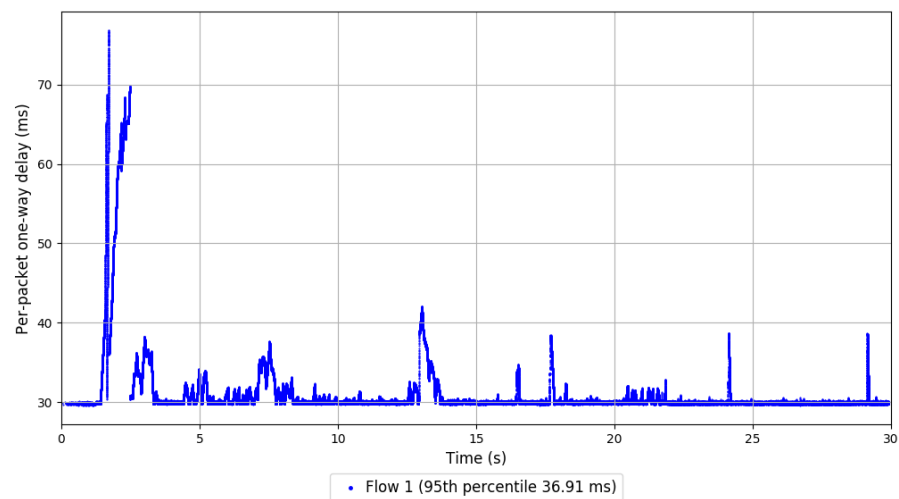
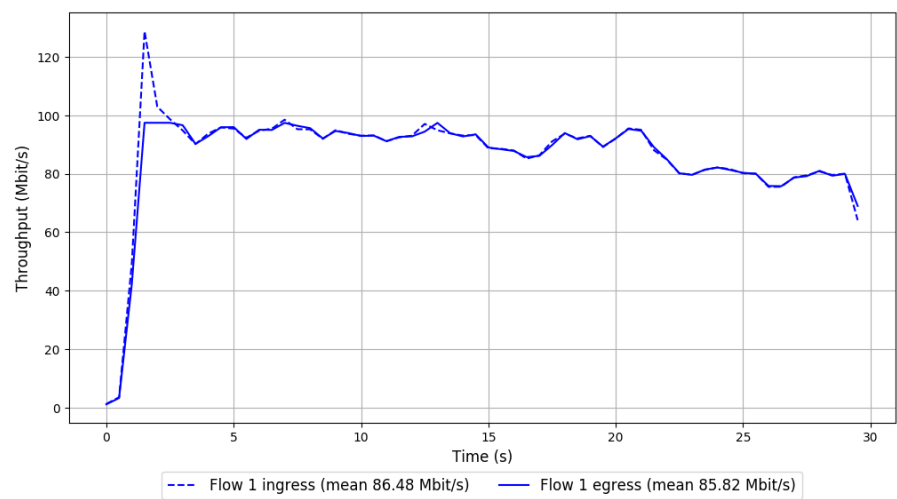
-- Flow 1:

Average throughput: 85.82 Mbit/s

95th percentile per-packet one-way delay: 36.909 ms

Loss rate: 0.77%

Run 3: Report of Vivace-LTE — Data Link

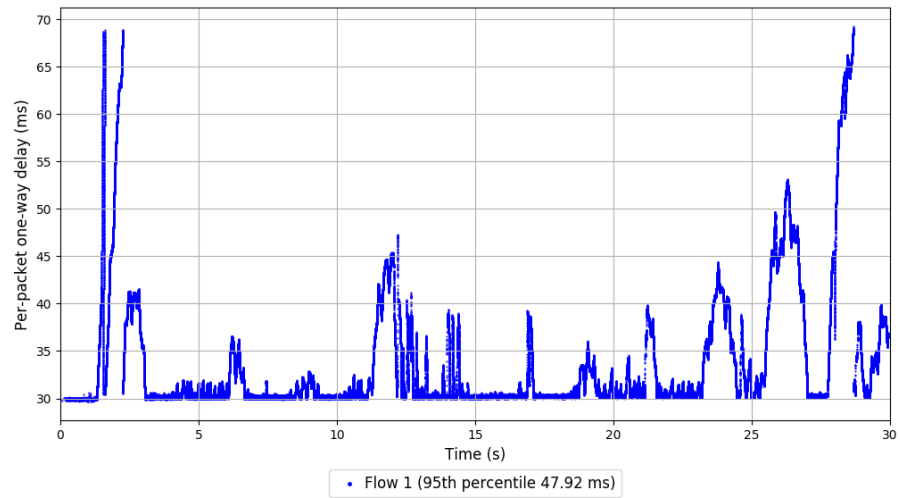
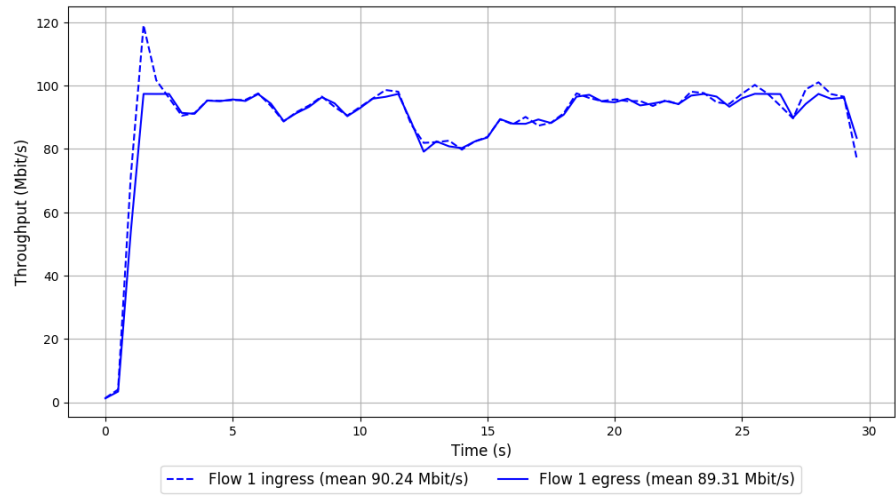


Run 4: Statistics of Vivace-LTE

Start at: 2018-02-20 03:19:48
End at: 2018-02-20 03:20:18
Local clock offset: 5.82 ms
Remote clock offset: -7.488 ms

Below is generated by plot.py at 2018-02-20 07:12:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.31 Mbit/s
95th percentile per-packet one-way delay: 47.925 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 89.31 Mbit/s
95th percentile per-packet one-way delay: 47.925 ms
Loss rate: 1.02%

Run 4: Report of Vivace-LTE — Data Link

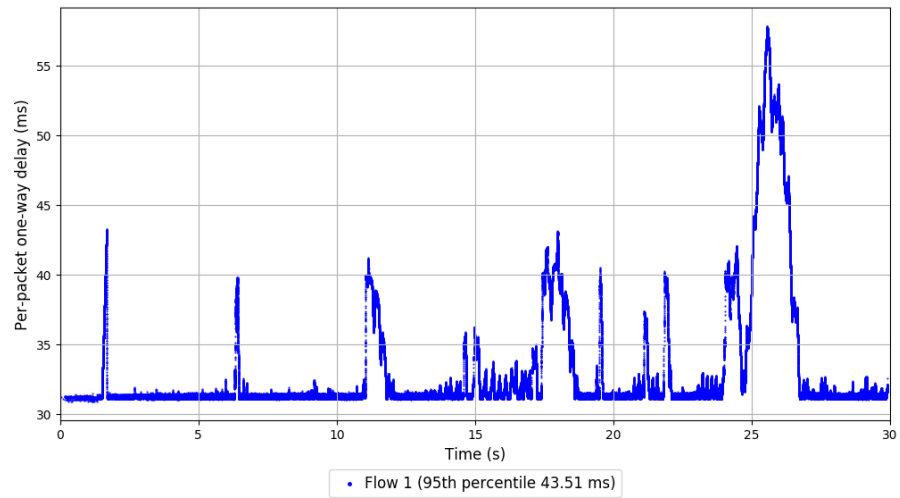
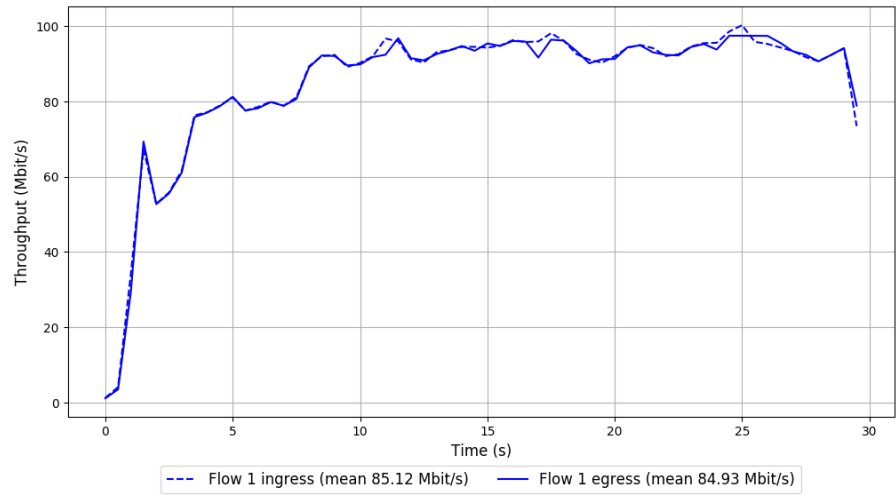


Run 5: Statistics of Vivace-LTE

Start at: 2018-02-20 03:48:22
End at: 2018-02-20 03:48:52
Local clock offset: 2.233 ms
Remote clock offset: -10.216 ms

Below is generated by plot.py at 2018-02-20 07:12:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.93 Mbit/s
95th percentile per-packet one-way delay: 43.508 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 84.93 Mbit/s
95th percentile per-packet one-way delay: 43.508 ms
Loss rate: 0.22%

Run 5: Report of Vivace-LTE — Data Link

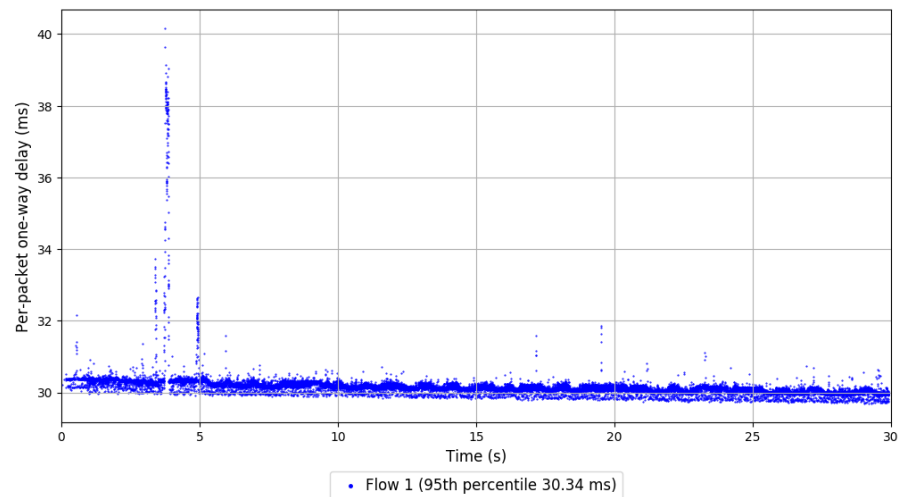
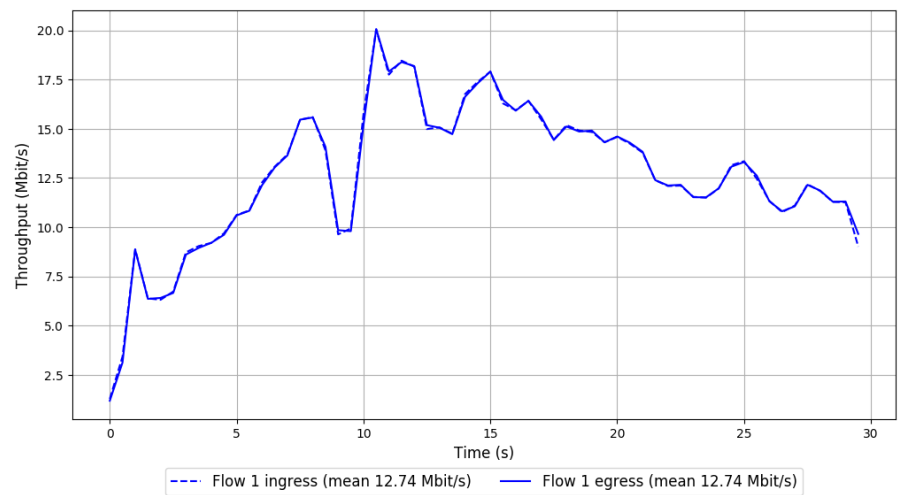


Run 6: Statistics of Vivace-LTE

Start at: 2018-02-20 04:17:56
End at: 2018-02-20 04:18:26
Local clock offset: -3.318 ms
Remote clock offset: -9.942 ms

Below is generated by plot.py at 2018-02-20 07:12:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.74 Mbit/s
95th percentile per-packet one-way delay: 30.337 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 12.74 Mbit/s
95th percentile per-packet one-way delay: 30.337 ms
Loss rate: 0.01%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-20 04:45:45

End at: 2018-02-20 04:46:15

Local clock offset: -3.184 ms

Remote clock offset: -9.01 ms

Below is generated by plot.py at 2018-02-20 07:12:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.80 Mbit/s

95th percentile per-packet one-way delay: 35.339 ms

Loss rate: 0.43%

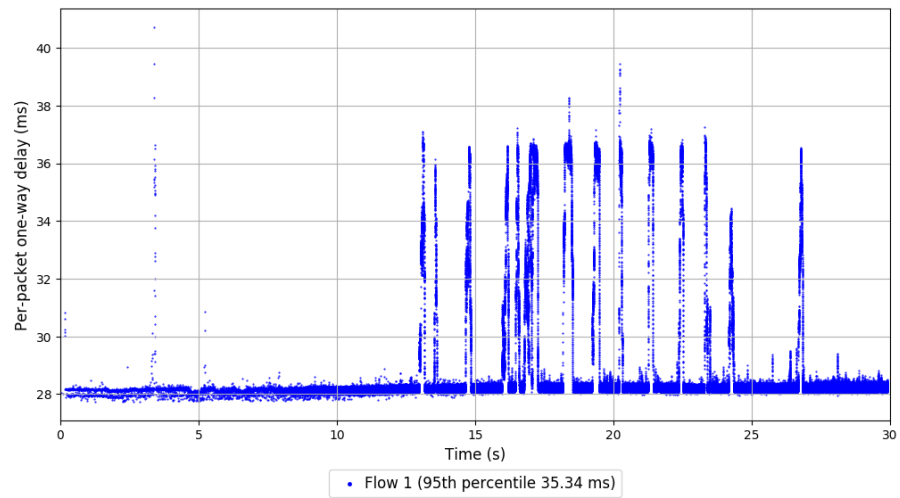
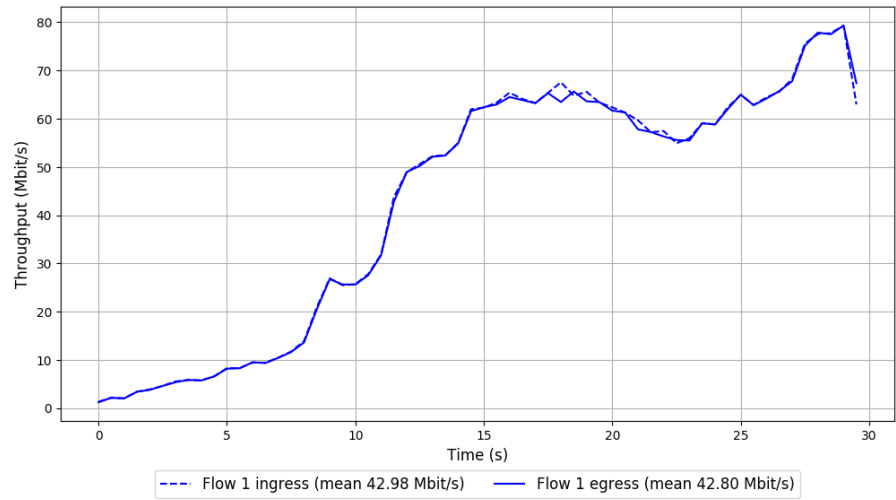
-- Flow 1:

Average throughput: 42.80 Mbit/s

95th percentile per-packet one-way delay: 35.339 ms

Loss rate: 0.43%

Run 7: Report of Vivace-LTE — Data Link

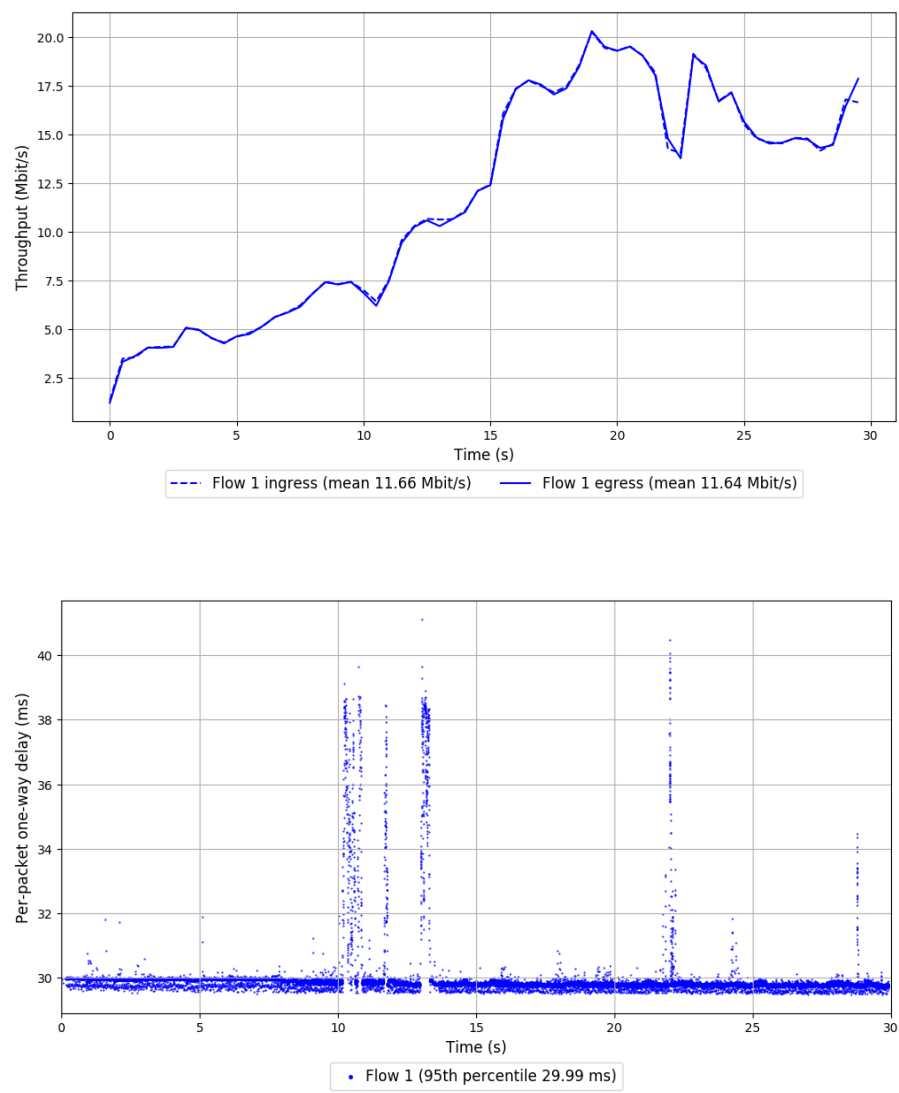


Run 8: Statistics of Vivace-LTE

Start at: 2018-02-20 05:13:01
End at: 2018-02-20 05:13:31
Local clock offset: 0.543 ms
Remote clock offset: -0.707 ms

Below is generated by plot.py at 2018-02-20 07:12:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 11.64 Mbit/s
95th percentile per-packet one-way delay: 29.990 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 11.64 Mbit/s
95th percentile per-packet one-way delay: 29.990 ms
Loss rate: 0.12%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-20 05:41:27

End at: 2018-02-20 05:41:57

Local clock offset: 0.247 ms

Remote clock offset: -3.22 ms

Below is generated by plot.py at 2018-02-20 07:12:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.64 Mbit/s

95th percentile per-packet one-way delay: 49.134 ms

Loss rate: 0.81%

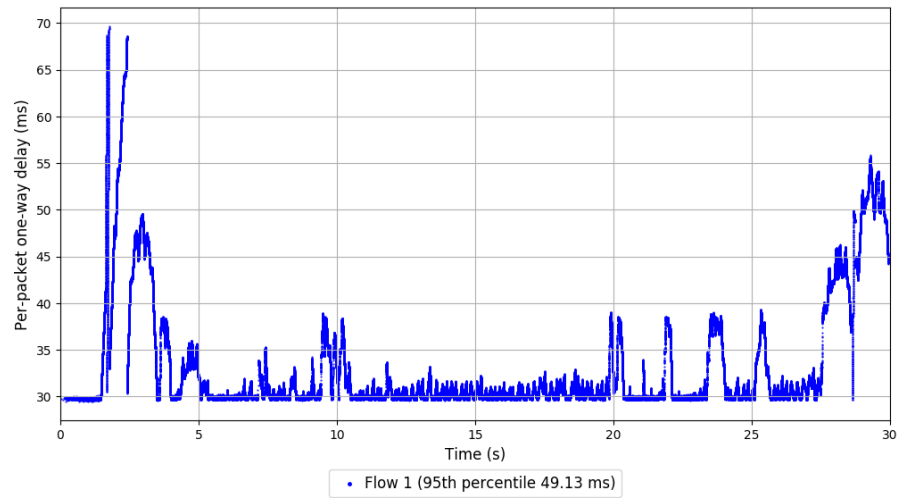
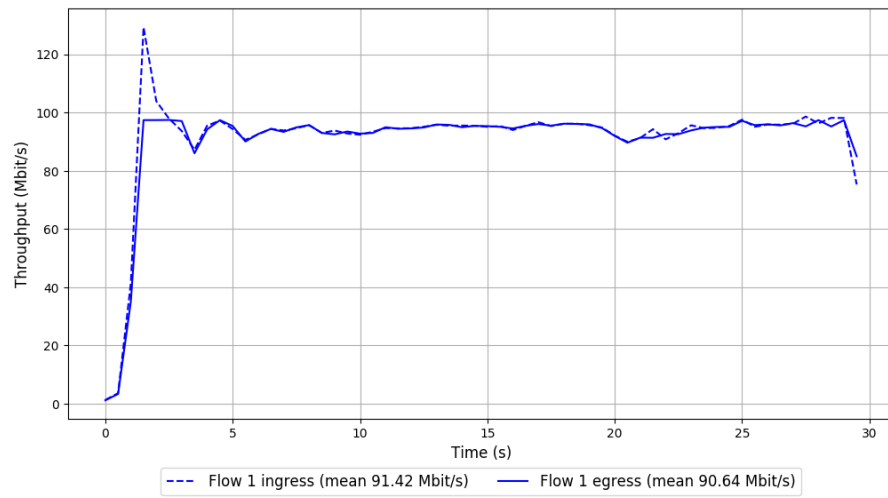
-- Flow 1:

Average throughput: 90.64 Mbit/s

95th percentile per-packet one-way delay: 49.134 ms

Loss rate: 0.81%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-20 06:06:14

End at: 2018-02-20 06:06:44

Local clock offset: 2.801 ms

Remote clock offset: -4.094 ms

Below is generated by plot.py at 2018-02-20 07:12:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.87 Mbit/s

95th percentile per-packet one-way delay: 42.924 ms

Loss rate: 1.22%

-- Flow 1:

Average throughput: 64.87 Mbit/s

95th percentile per-packet one-way delay: 42.924 ms

Loss rate: 1.22%

Run 10: Report of Vivace-LTE — Data Link

