

Pantheon Report

Generated at 2018-03-20 18:54:06 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

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

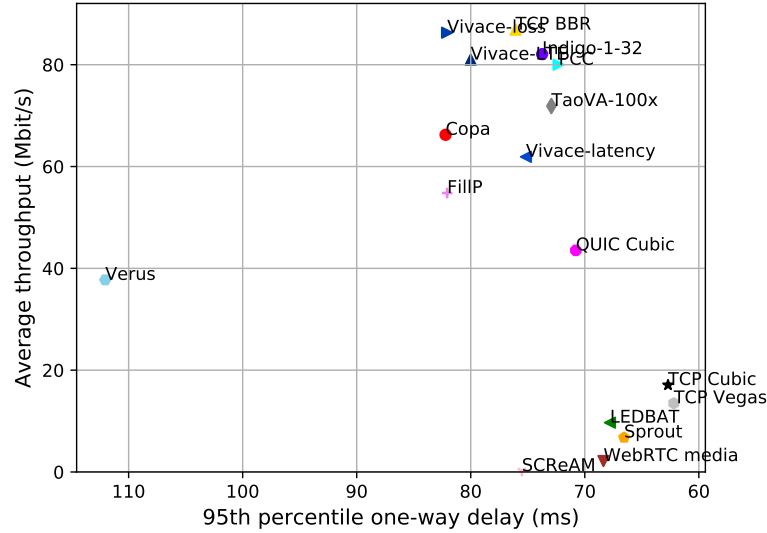
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

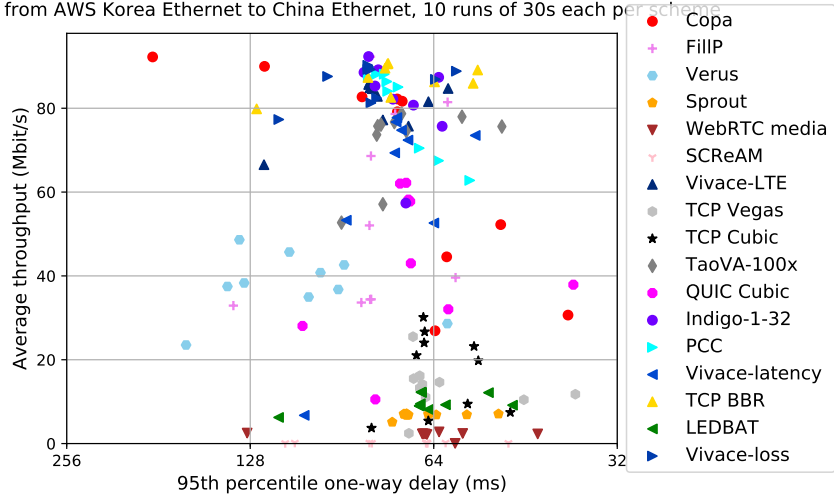
Git summary:

```
branch: master @ 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 @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

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



test from AWS Korea Ethernet to China Ethernet, 10 runs of 30s each per scheme



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	9	86.89	76.07	3.44
TCP Cubic	10	17.09	62.70	0.51
LEDBAT	10	9.69	67.79	0.39
PCC	9	80.00	72.29	1.16
QUIC Cubic	9	43.53	70.79	0.57
SCReAM	10	0.18	75.52	0.19
WebRTC media	10	2.14	68.36	0.09
Sprout	10	6.77	66.56	2.99
TaoVA-100x	10	71.89	72.93	3.99
TCP Vegas	10	13.50	62.20	0.38
Verus	10	37.74	112.05	80.35
Copa	10	66.23	82.21	25.52
FillP	10	54.80	82.07	23.73
Indigo-1-32	9	82.08	73.74	5.88
Vivace-latency	9	61.91	75.16	0.31
Vivace-loss	10	86.29	82.07	1.51
Vivace-LTE	10	81.00	80.01	1.30

Run 1: Statistics of TCP BBR

Start at: 2018-03-20 14:27:57

End at: 2018-03-20 14:28:27

Local clock offset: 5.544 ms

Remote clock offset: -26.526 ms

Below is generated by plot.py at 2018-03-20 18:36:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.13 Mbit/s

95th percentile per-packet one-way delay: 54.211 ms

Loss rate: 3.42%

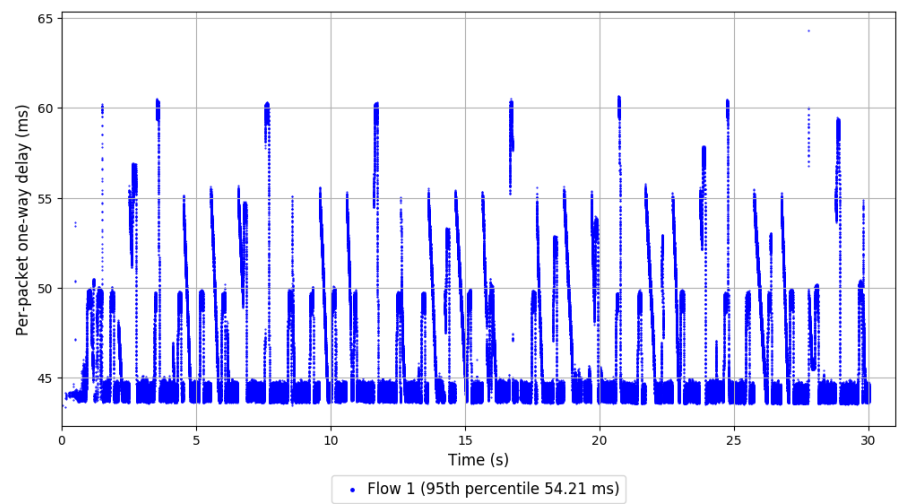
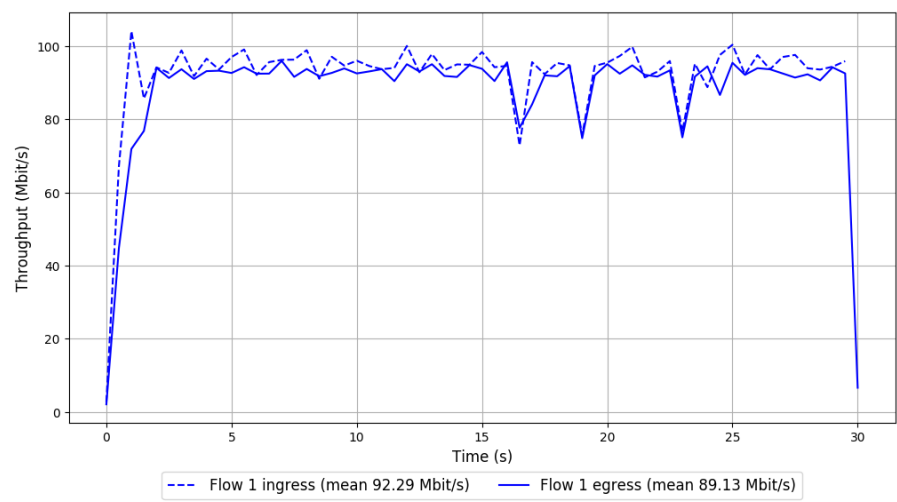
-- Flow 1:

Average throughput: 89.13 Mbit/s

95th percentile per-packet one-way delay: 54.211 ms

Loss rate: 3.42%

Run 1: Report of TCP BBR — Data Link

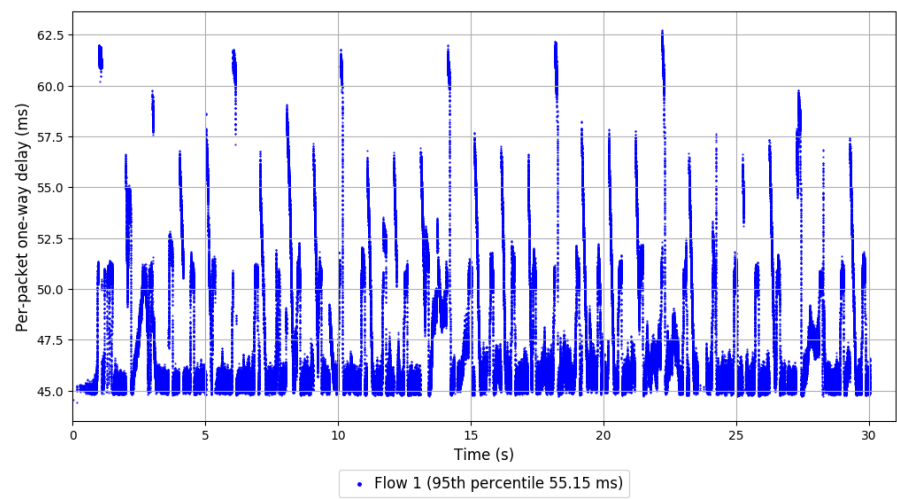
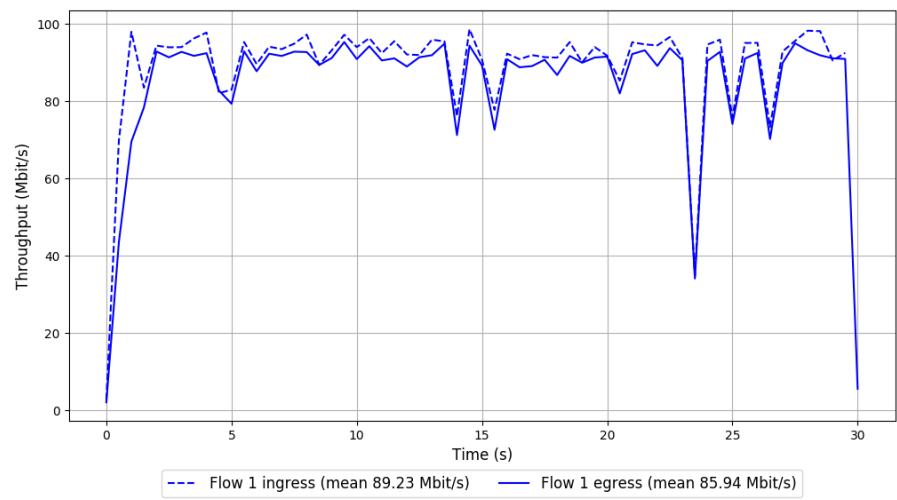


Run 2: Statistics of TCP BBR

Start at: 2018-03-20 14:50:52
End at: 2018-03-20 14:51:22
Local clock offset: 4.494 ms
Remote clock offset: -24.819 ms

Below is generated by plot.py at 2018-03-20 18:36:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 85.94 Mbit/s
95th percentile per-packet one-way delay: 55.148 ms
Loss rate: 3.68%
-- Flow 1:
Average throughput: 85.94 Mbit/s
95th percentile per-packet one-way delay: 55.148 ms
Loss rate: 3.68%

Run 2: Report of TCP BBR — Data Link

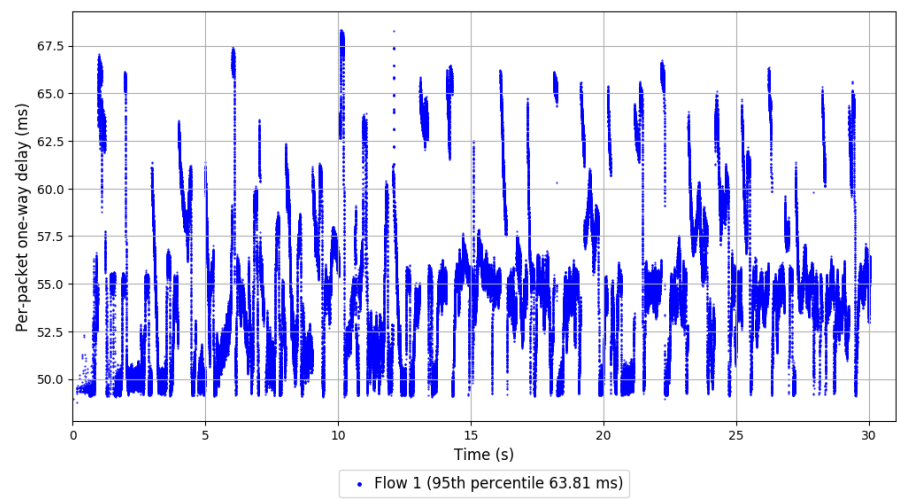
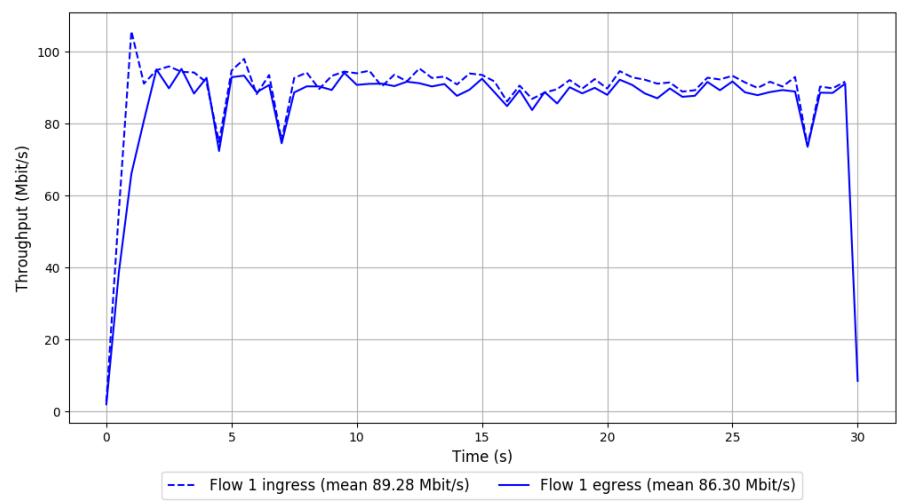


Run 3: Statistics of TCP BBR

Start at: 2018-03-20 15:12:31
End at: 2018-03-20 15:13:01
Local clock offset: 4.147 ms
Remote clock offset: -22.671 ms

Below is generated by plot.py at 2018-03-20 18:36:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.30 Mbit/s
95th percentile per-packet one-way delay: 63.810 ms
Loss rate: 3.32%
-- Flow 1:
Average throughput: 86.30 Mbit/s
95th percentile per-packet one-way delay: 63.810 ms
Loss rate: 3.32%

Run 3: Report of TCP BBR — Data Link

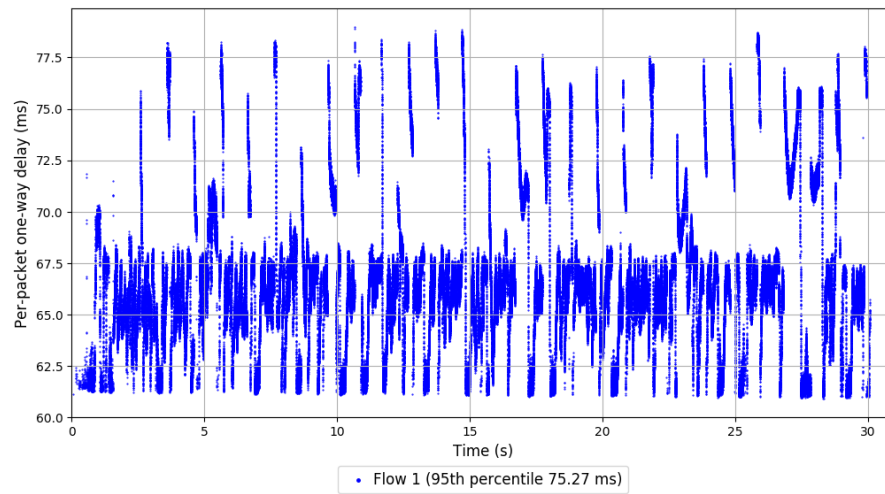
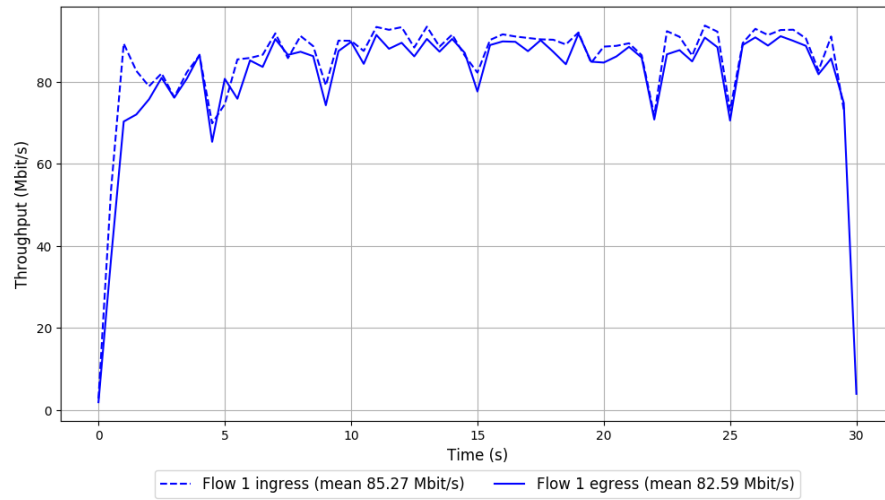


Run 4: Statistics of TCP BBR

Start at: 2018-03-20 15:34:39
End at: 2018-03-20 15:35:09
Local clock offset: 5.924 ms
Remote clock offset: -11.34 ms

Below is generated by plot.py at 2018-03-20 18:36:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 82.59 Mbit/s
95th percentile per-packet one-way delay: 75.268 ms
Loss rate: 3.13%
-- Flow 1:
Average throughput: 82.59 Mbit/s
95th percentile per-packet one-way delay: 75.268 ms
Loss rate: 3.13%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-03-20 15:57:52

End at: 2018-03-20 15:58:22

Local clock offset: 5.144 ms

Remote clock offset: -8.168 ms

Below is generated by plot.py at 2018-03-20 18:36:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.85 Mbit/s

95th percentile per-packet one-way delay: 124.953 ms

Loss rate: 2.58%

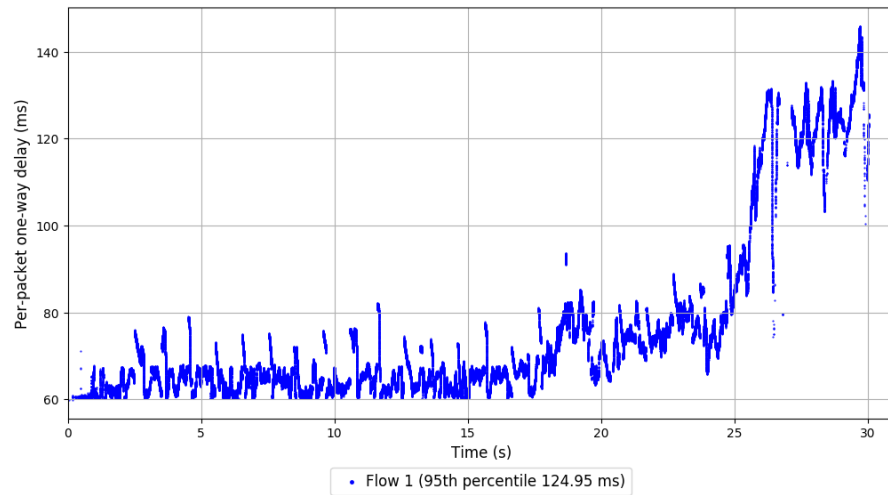
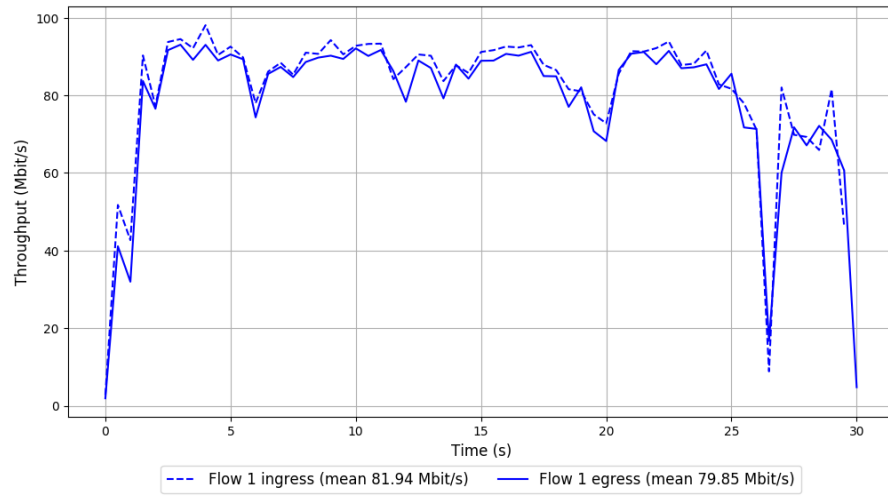
-- Flow 1:

Average throughput: 79.85 Mbit/s

95th percentile per-packet one-way delay: 124.953 ms

Loss rate: 2.58%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-03-20 16:19:57

End at: 2018-03-20 16:20:27

Local clock offset: 3.611 ms

Remote clock offset: 0.181 ms

Below is generated by plot.py at 2018-03-20 18:36:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.34 Mbit/s

95th percentile per-packet one-way delay: 82.052 ms

Loss rate: 3.66%

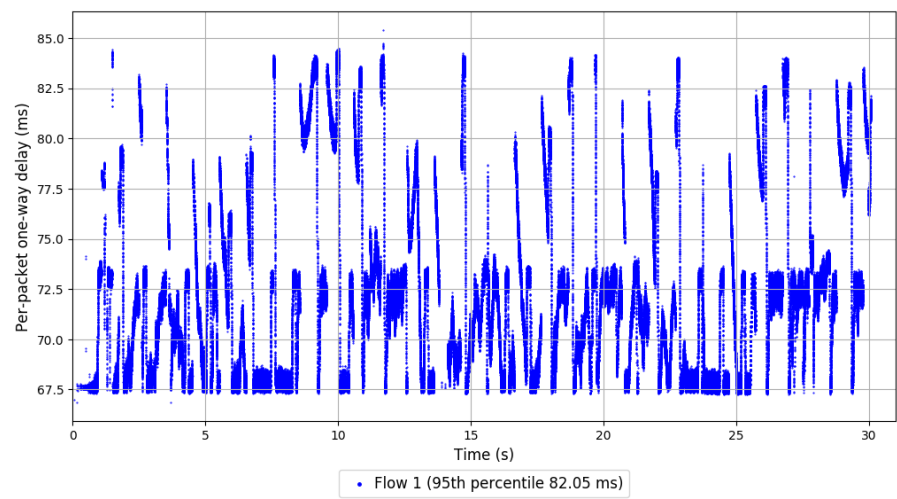
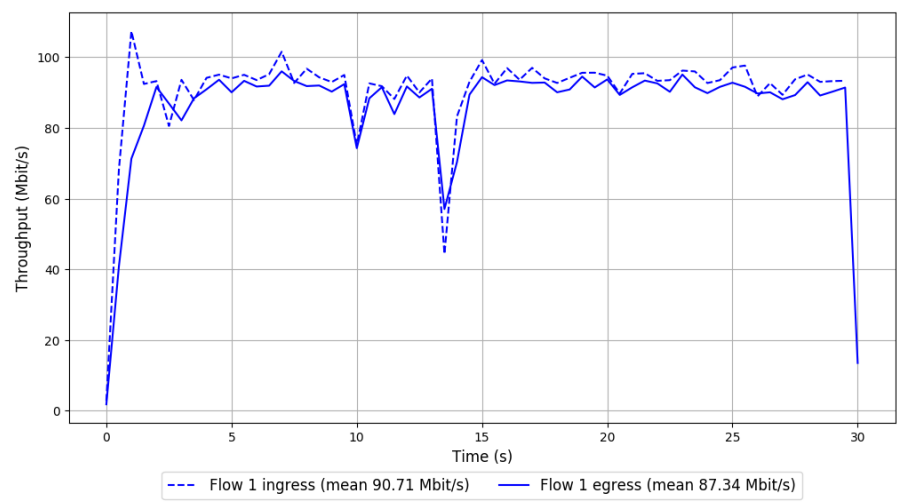
-- Flow 1:

Average throughput: 87.34 Mbit/s

95th percentile per-packet one-way delay: 82.052 ms

Loss rate: 3.66%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

/home/ubuntu/pantheon_data/2018-03-20T14-24-AWS-Korea-to-China-10-runs/bbr_stats_run7.log d

Run 7: Report of TCP BBR — Data Link

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Run 8: Statistics of TCP BBR

Start at: 2018-03-20 17:07:07

End at: 2018-03-20 17:07:37

Local clock offset: -0.969 ms

Remote clock offset: 0.105 ms

Below is generated by plot.py at 2018-03-20 18:36:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.56 Mbit/s

95th percentile per-packet one-way delay: 76.921 ms

Loss rate: 3.55%

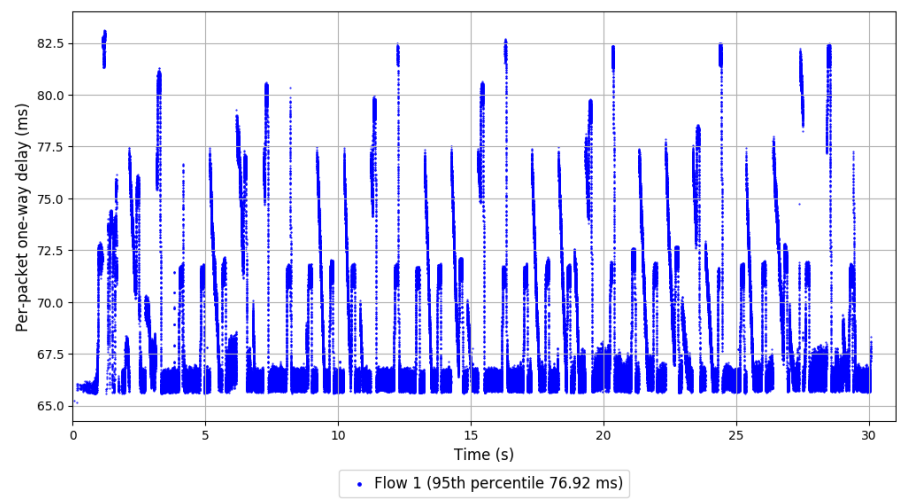
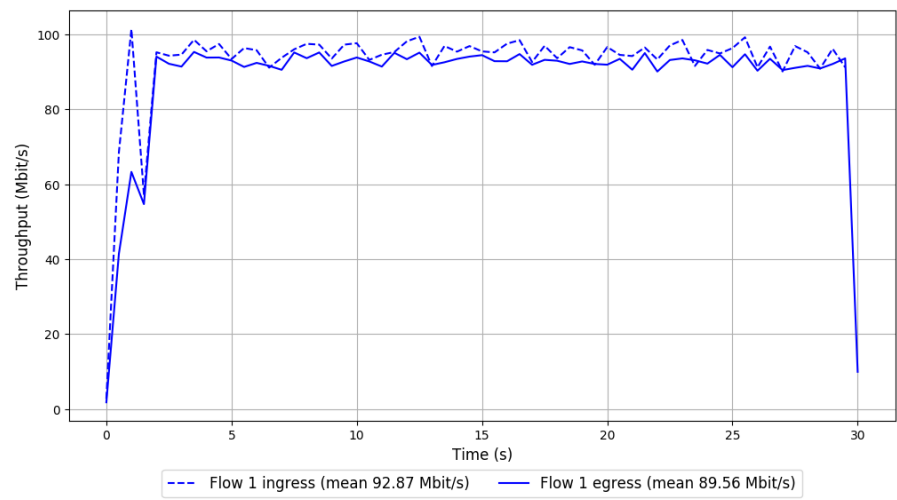
-- Flow 1:

Average throughput: 89.56 Mbit/s

95th percentile per-packet one-way delay: 76.921 ms

Loss rate: 3.55%

Run 8: Report of TCP BBR — Data Link

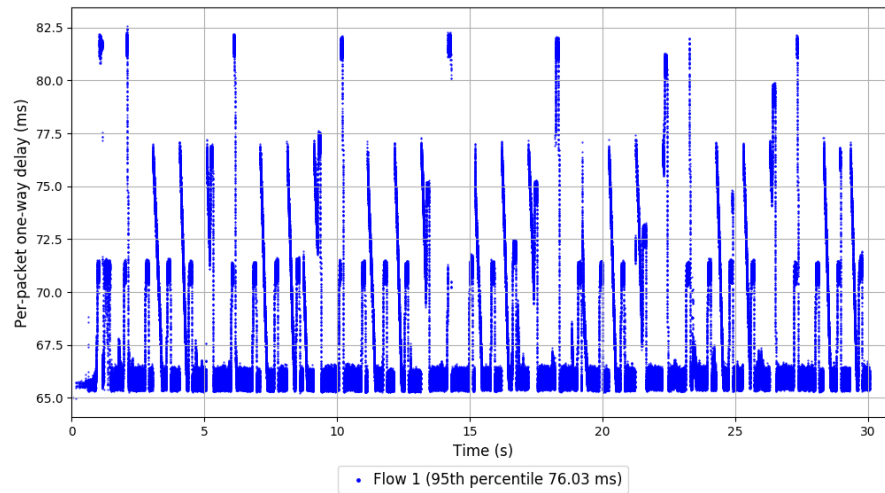
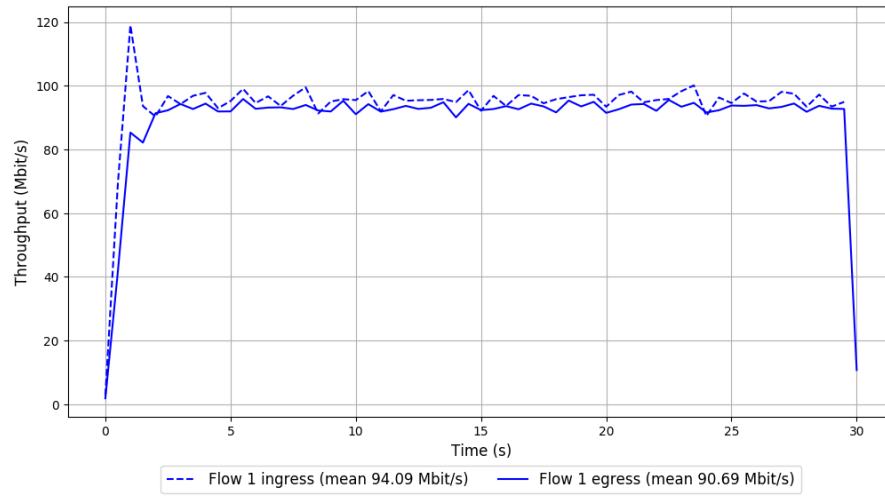


Run 9: Statistics of TCP BBR

Start at: 2018-03-20 17:28:50
End at: 2018-03-20 17:29:20
Local clock offset: -0.529 ms
Remote clock offset: -0.538 ms

Below is generated by plot.py at 2018-03-20 18:36:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.69 Mbit/s
95th percentile per-packet one-way delay: 76.034 ms
Loss rate: 3.62%
-- Flow 1:
Average throughput: 90.69 Mbit/s
95th percentile per-packet one-way delay: 76.034 ms
Loss rate: 3.62%

Run 9: Report of TCP BBR — Data Link

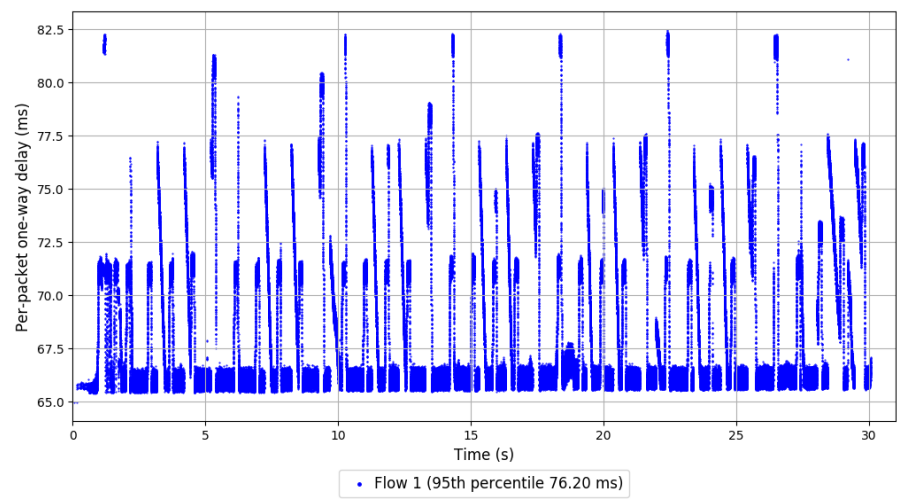
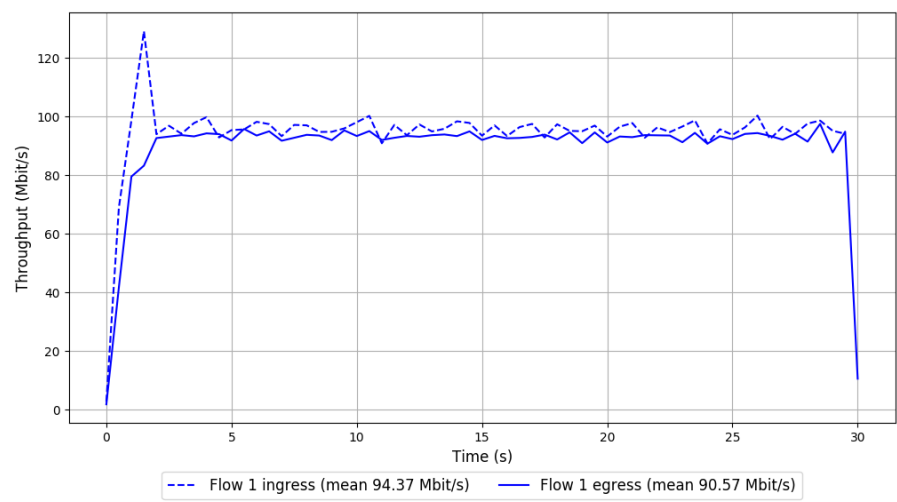


Run 10: Statistics of TCP BBR

Start at: 2018-03-20 17:52:21
End at: 2018-03-20 17:52:51
Local clock offset: 3.755 ms
Remote clock offset: -0.847 ms

Below is generated by plot.py at 2018-03-20 18:37:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.57 Mbit/s
95th percentile per-packet one-way delay: 76.202 ms
Loss rate: 4.01%
-- Flow 1:
Average throughput: 90.57 Mbit/s
95th percentile per-packet one-way delay: 76.202 ms
Loss rate: 4.01%

Run 10: Report of TCP BBR — Data Link

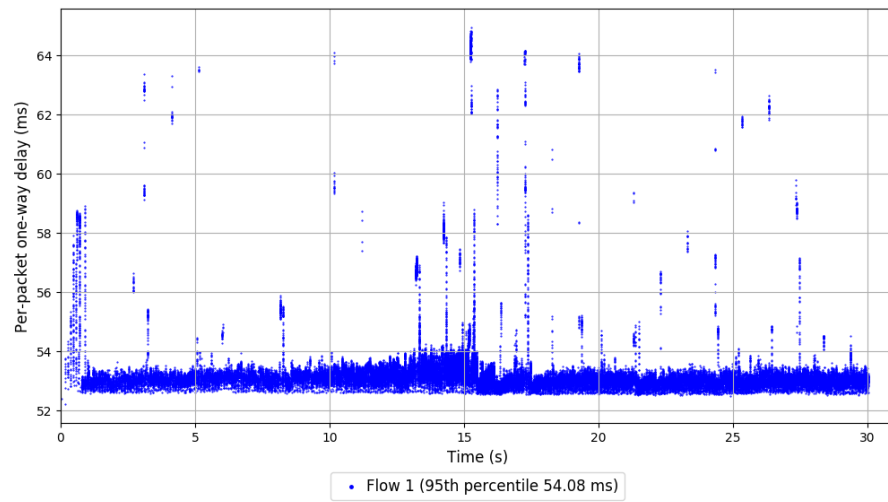
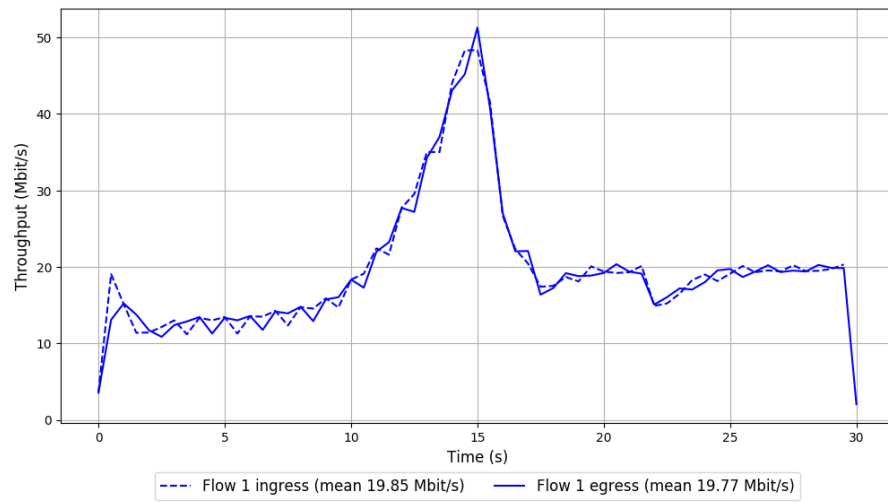


Run 1: Statistics of TCP Cubic

Start at: 2018-03-20 14:30:22
End at: 2018-03-20 14:30:52
Local clock offset: 4.572 ms
Remote clock offset: -18.094 ms

Below is generated by plot.py at 2018-03-20 18:37:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 19.77 Mbit/s
95th percentile per-packet one-way delay: 54.076 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 19.77 Mbit/s
95th percentile per-packet one-way delay: 54.076 ms
Loss rate: 0.41%

Run 1: Report of TCP Cubic — Data Link

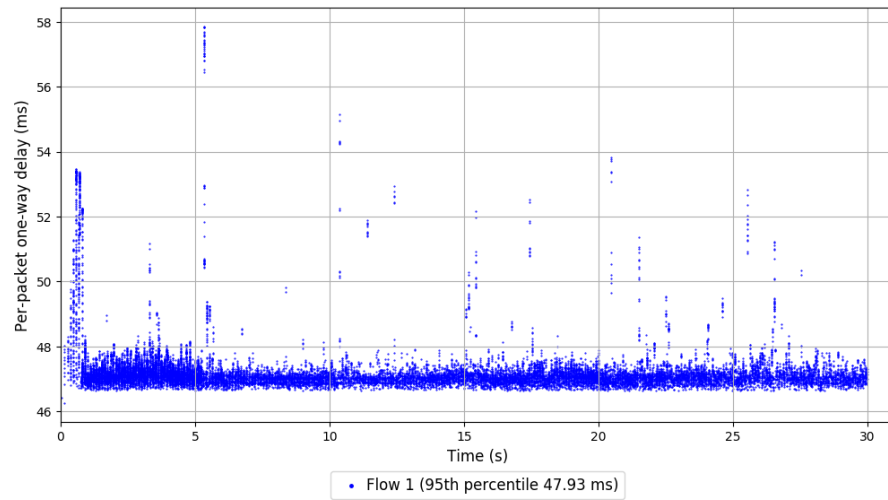
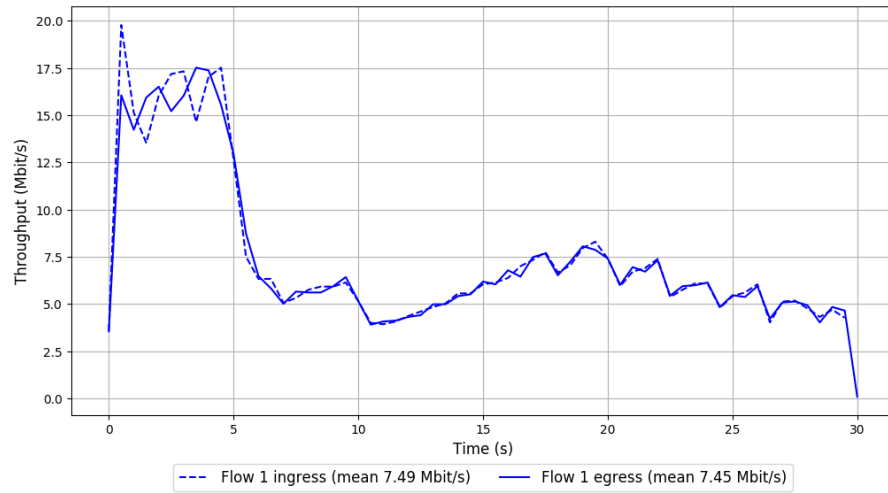


Run 2: Statistics of TCP Cubic

Start at: 2018-03-20 14:53:19
End at: 2018-03-20 14:53:49
Local clock offset: 4.244 ms
Remote clock offset: -23.185 ms

Below is generated by plot.py at 2018-03-20 18:37:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.45 Mbit/s
95th percentile per-packet one-way delay: 47.927 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 7.45 Mbit/s
95th percentile per-packet one-way delay: 47.927 ms
Loss rate: 0.55%

Run 2: Report of TCP Cubic — Data Link

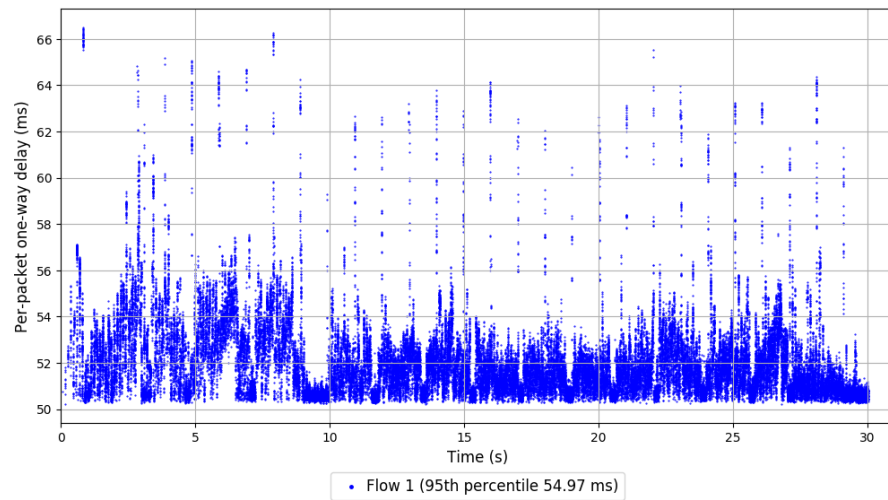
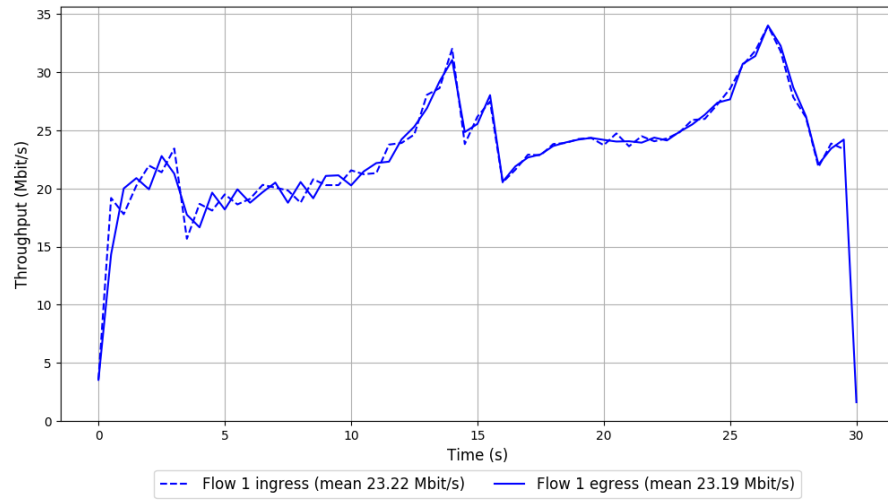


Run 3: Statistics of TCP Cubic

Start at: 2018-03-20 15:15:09
End at: 2018-03-20 15:15:39
Local clock offset: 3.921 ms
Remote clock offset: -21.703 ms

Below is generated by plot.py at 2018-03-20 18:37:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 23.19 Mbit/s
95th percentile per-packet one-way delay: 54.965 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 23.19 Mbit/s
95th percentile per-packet one-way delay: 54.965 ms
Loss rate: 0.14%

Run 3: Report of TCP Cubic — Data Link

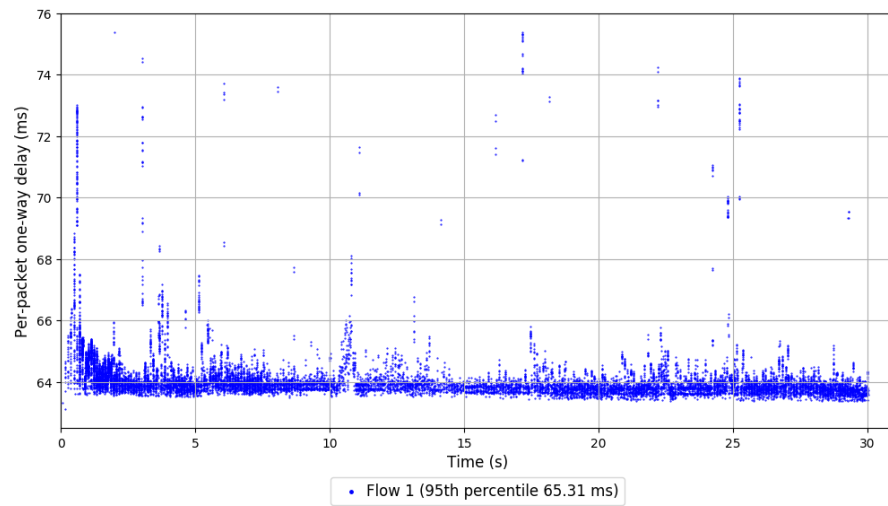
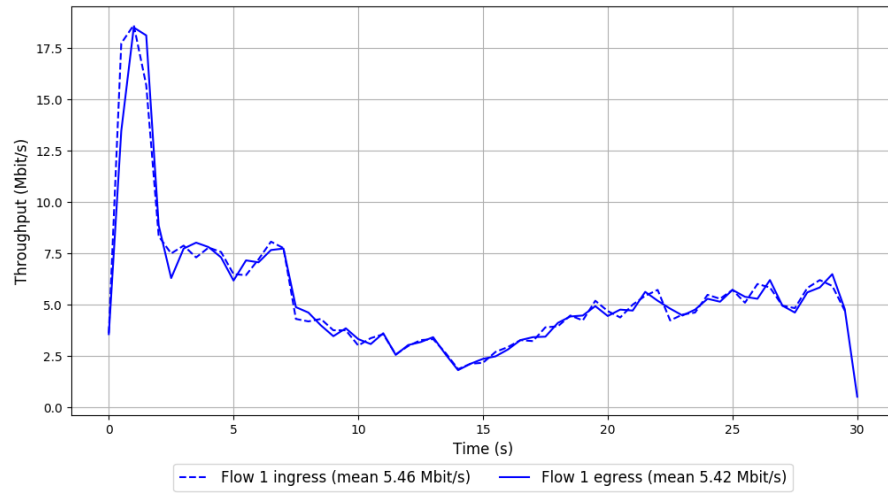


Run 4: Statistics of TCP Cubic

Start at: 2018-03-20 15:37:04
End at: 2018-03-20 15:37:34
Local clock offset: 6.046 ms
Remote clock offset: -7.654 ms

Below is generated by plot.py at 2018-03-20 18:37:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 5.42 Mbit/s
95th percentile per-packet one-way delay: 65.313 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 5.42 Mbit/s
95th percentile per-packet one-way delay: 65.313 ms
Loss rate: 0.68%

Run 4: Report of TCP Cubic — Data Link

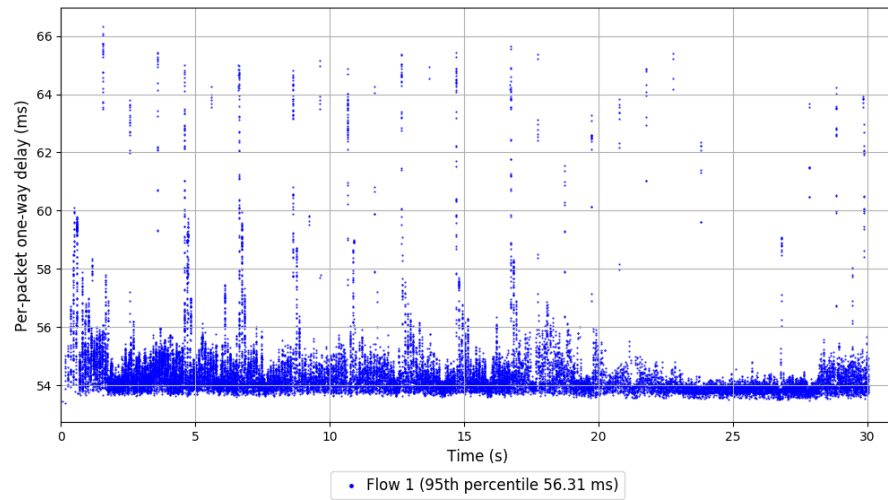
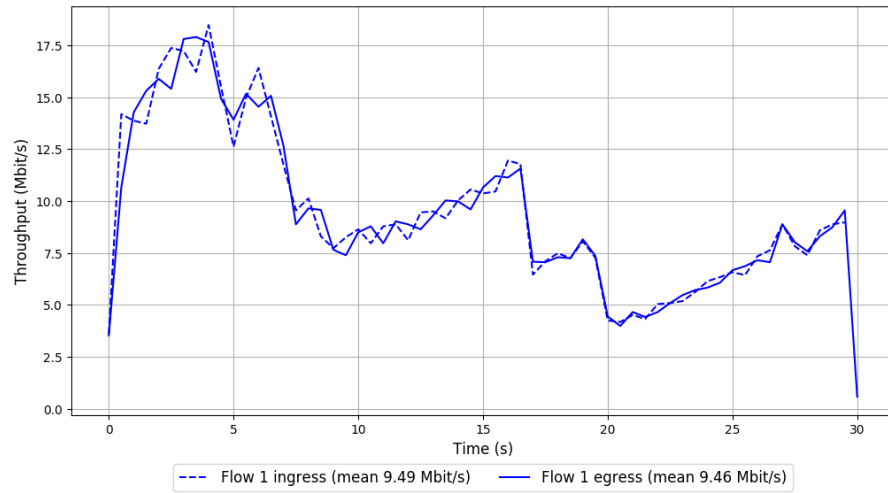


Run 5: Statistics of TCP Cubic

Start at: 2018-03-20 16:00:17
End at: 2018-03-20 16:00:47
Local clock offset: 7.715 ms
Remote clock offset: -11.724 ms

Below is generated by plot.py at 2018-03-20 18:37:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.46 Mbit/s
95th percentile per-packet one-way delay: 56.311 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 9.46 Mbit/s
95th percentile per-packet one-way delay: 56.311 ms
Loss rate: 0.31%

Run 5: Report of TCP Cubic — Data Link

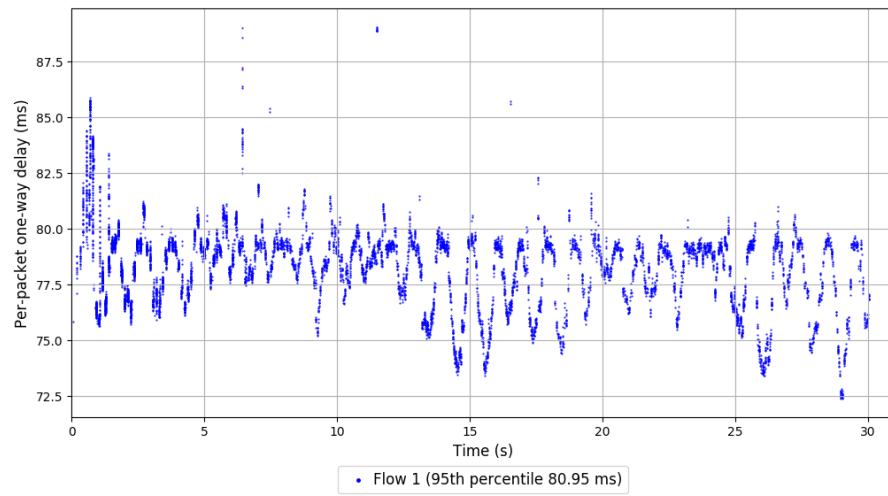
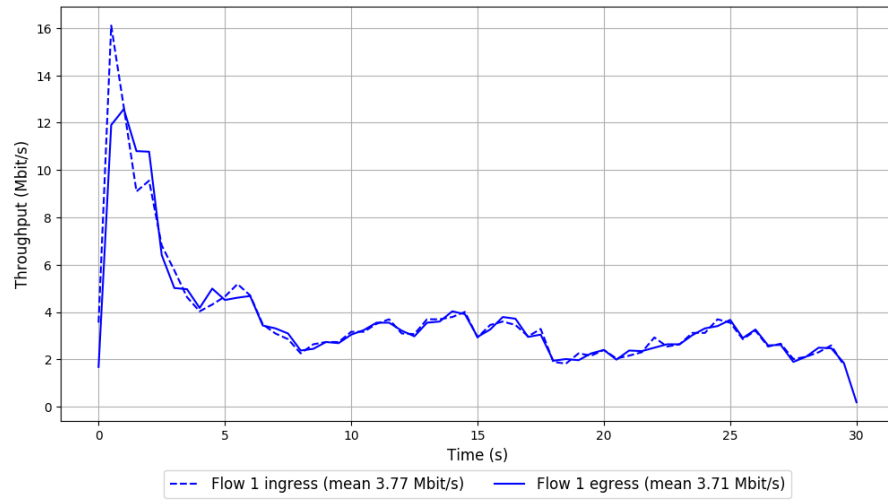


Run 6: Statistics of TCP Cubic

Start at: 2018-03-20 16:22:23
End at: 2018-03-20 16:22:53
Local clock offset: 6.358 ms
Remote clock offset: -0.687 ms

Below is generated by plot.py at 2018-03-20 18:37:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.71 Mbit/s
95th percentile per-packet one-way delay: 80.955 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 3.71 Mbit/s
95th percentile per-packet one-way delay: 80.955 ms
Loss rate: 1.62%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-03-20 16:47:33

End at: 2018-03-20 16:48:03

Local clock offset: 1.213 ms

Remote clock offset: 1.183 ms

Below is generated by plot.py at 2018-03-20 18:37:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.13 Mbit/s

95th percentile per-packet one-way delay: 66.554 ms

Loss rate: 0.23%

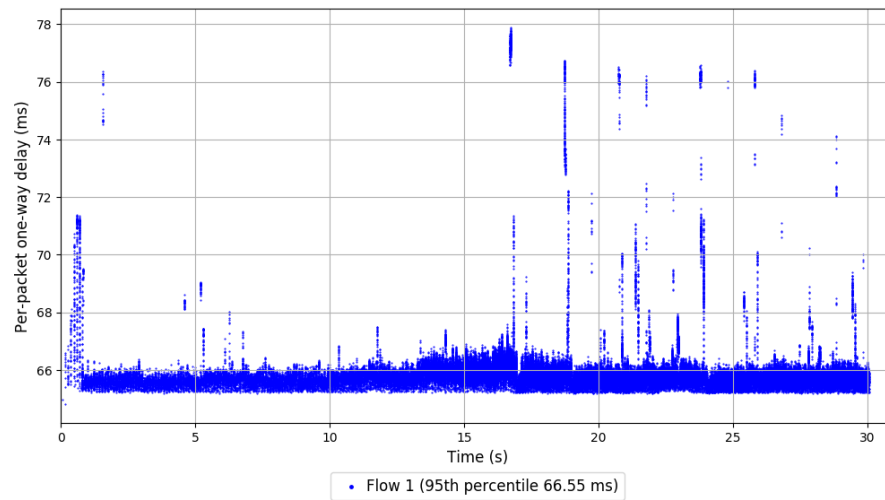
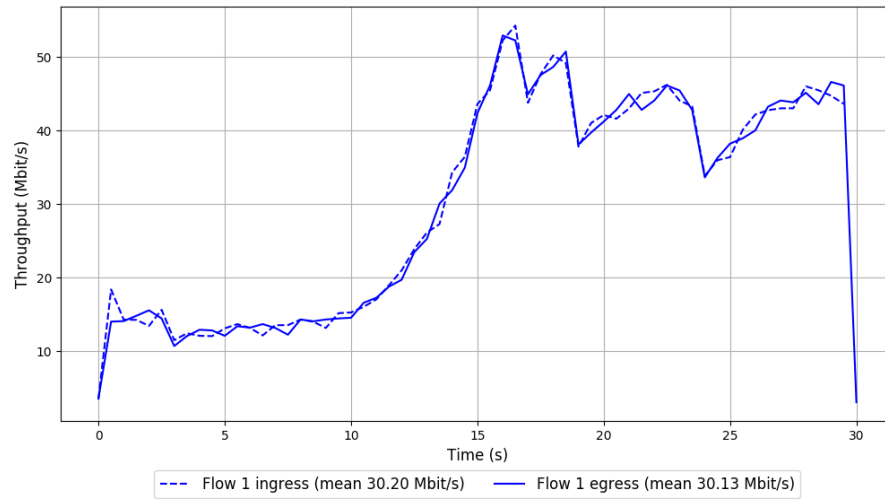
-- Flow 1:

Average throughput: 30.13 Mbit/s

95th percentile per-packet one-way delay: 66.554 ms

Loss rate: 0.23%

Run 7: Report of TCP Cubic — Data Link

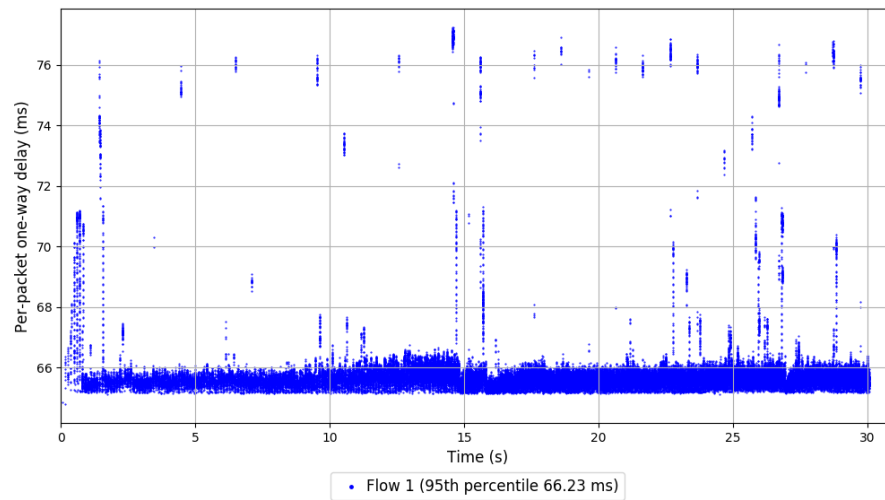
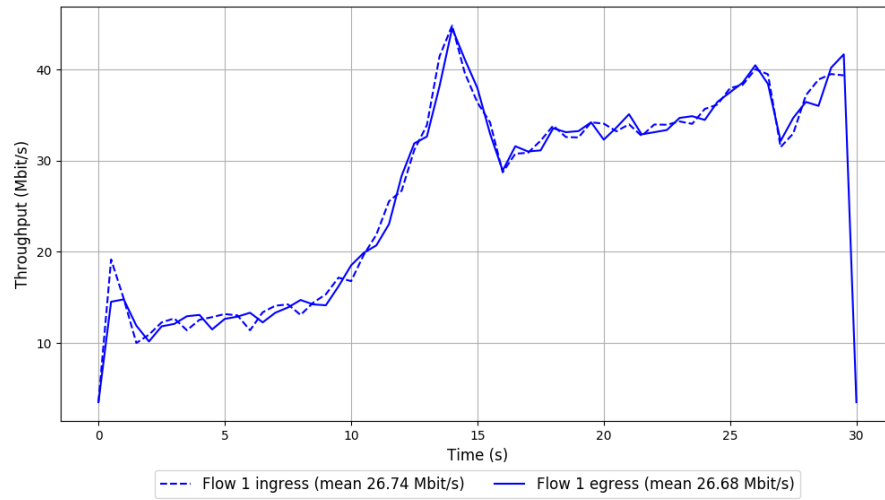


Run 8: Statistics of TCP Cubic

Start at: 2018-03-20 17:09:33
End at: 2018-03-20 17:10:03
Local clock offset: -0.776 ms
Remote clock offset: -0.052 ms

Below is generated by plot.py at 2018-03-20 18:37:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 26.68 Mbit/s
95th percentile per-packet one-way delay: 66.230 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 26.68 Mbit/s
95th percentile per-packet one-way delay: 66.230 ms
Loss rate: 0.22%

Run 8: Report of TCP Cubic — Data Link

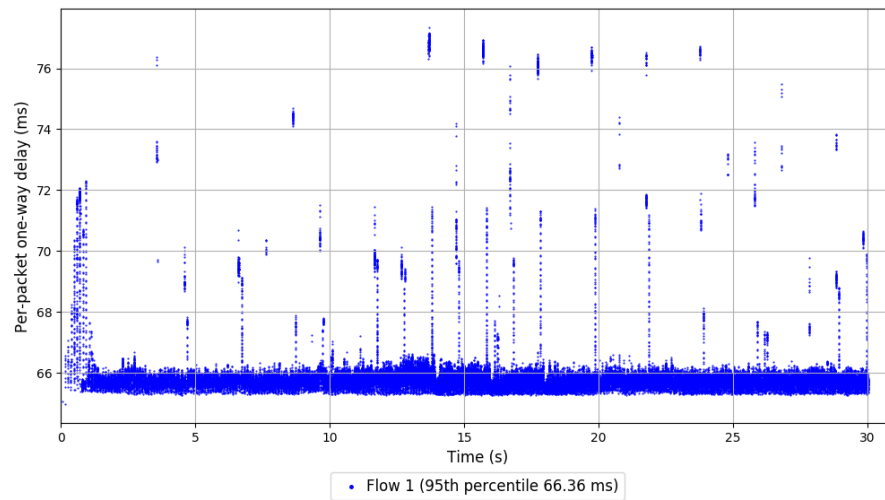
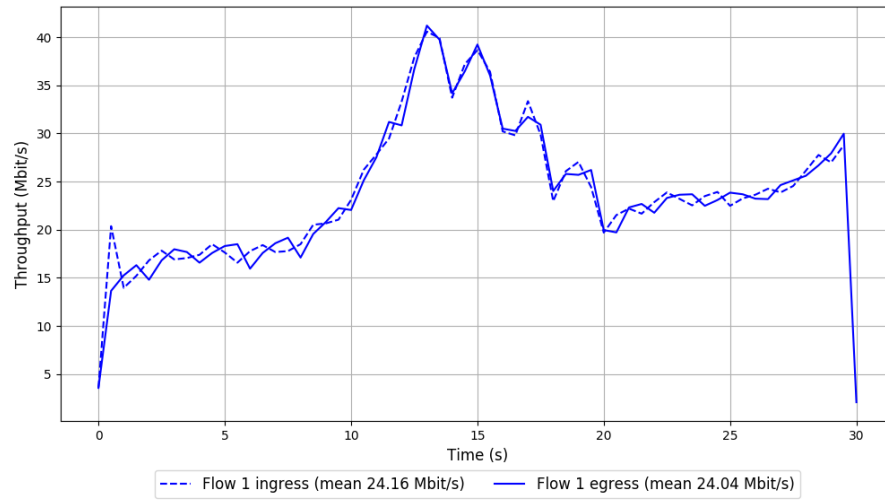


Run 9: Statistics of TCP Cubic

Start at: 2018-03-20 17:31:16
End at: 2018-03-20 17:31:46
Local clock offset: -0.826 ms
Remote clock offset: -0.514 ms

Below is generated by plot.py at 2018-03-20 18:37:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.04 Mbit/s
95th percentile per-packet one-way delay: 66.362 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 24.04 Mbit/s
95th percentile per-packet one-way delay: 66.362 ms
Loss rate: 0.48%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-03-20 17:54:51

End at: 2018-03-20 17:55:21

Local clock offset: 3.98 ms

Remote clock offset: -1.034 ms

Below is generated by plot.py at 2018-03-20 18:37:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.02 Mbit/s

95th percentile per-packet one-way delay: 68.309 ms

Loss rate: 0.44%

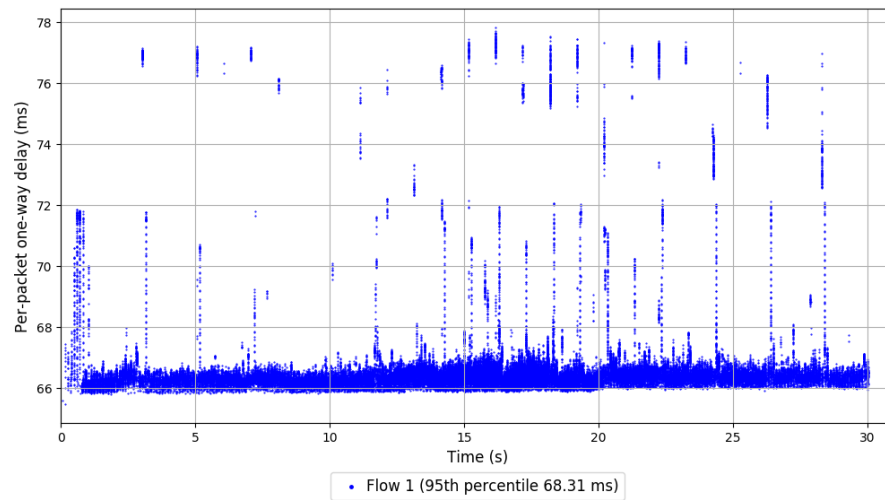
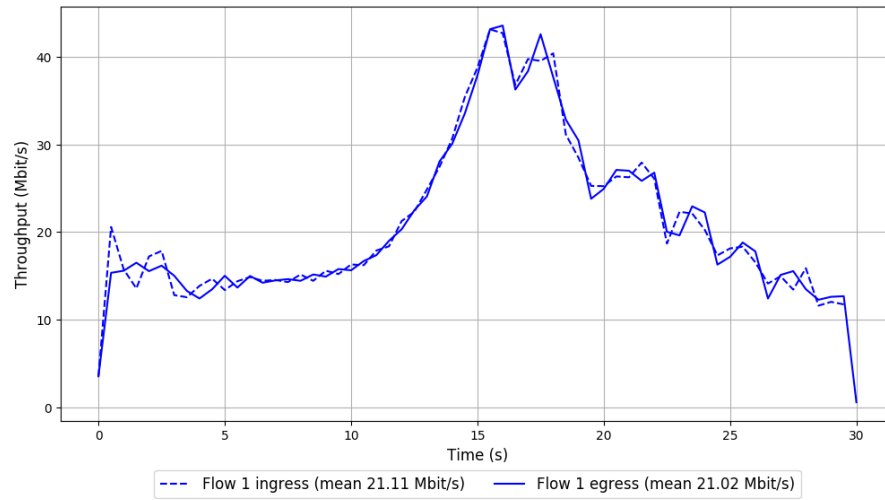
-- Flow 1:

Average throughput: 21.02 Mbit/s

95th percentile per-packet one-way delay: 68.309 ms

Loss rate: 0.44%

Run 10: Report of TCP Cubic — Data Link

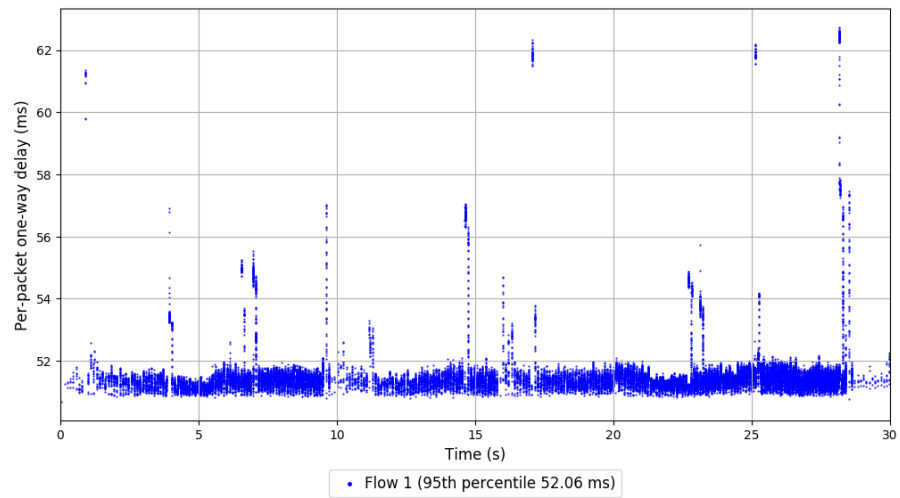
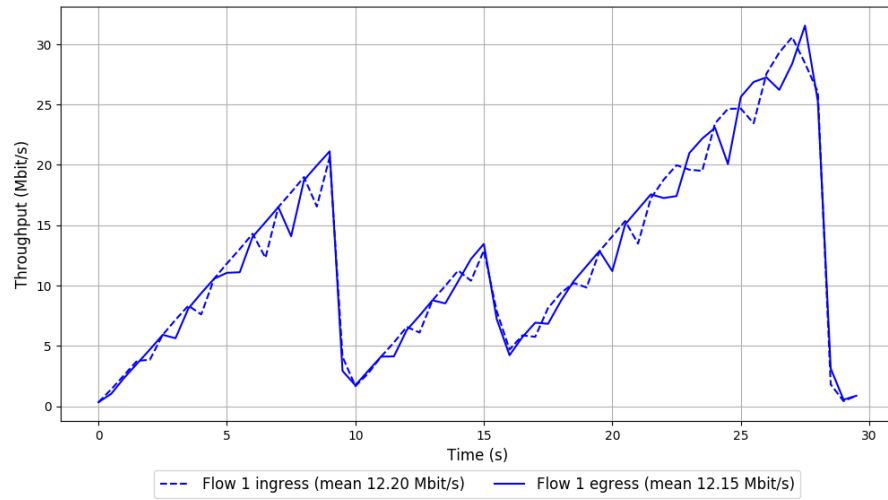


Run 1: Statistics of LEDBAT

Start at: 2018-03-20 14:38:43
End at: 2018-03-20 14:39:13
Local clock offset: 1.742 ms
Remote clock offset: -21.845 ms

Below is generated by plot.py at 2018-03-20 18:37:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.15 Mbit/s
95th percentile per-packet one-way delay: 52.058 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 12.15 Mbit/s
95th percentile per-packet one-way delay: 52.058 ms
Loss rate: 0.47%

Run 1: Report of LEDBAT — Data Link

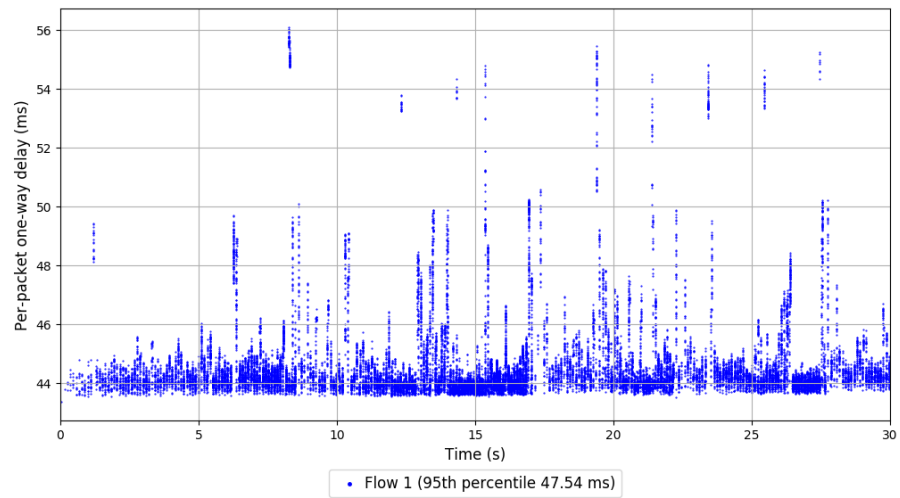
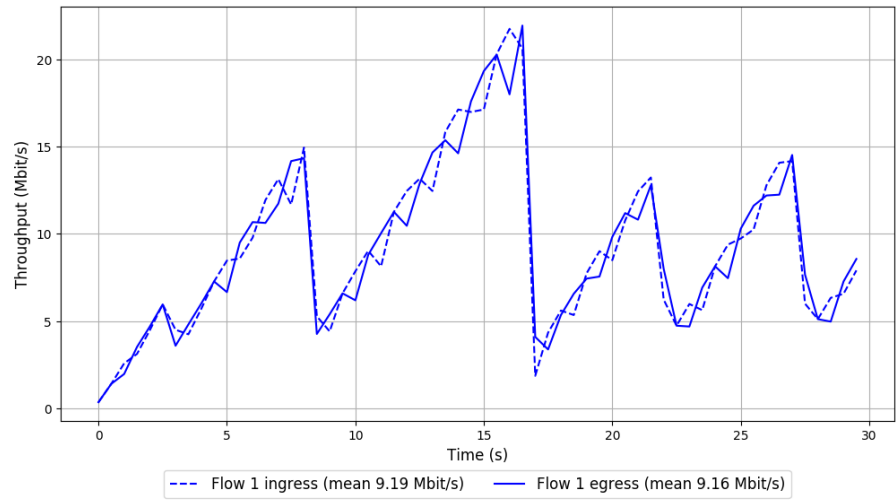


Run 2: Statistics of LEDBAT

Start at: 2018-03-20 15:01:39
End at: 2018-03-20 15:02:09
Local clock offset: 3.704 ms
Remote clock offset: -26.65 ms

Below is generated by plot.py at 2018-03-20 18:37:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.16 Mbit/s
95th percentile per-packet one-way delay: 47.538 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 9.16 Mbit/s
95th percentile per-packet one-way delay: 47.538 ms
Loss rate: 0.38%

Run 2: Report of LEDBAT — Data Link

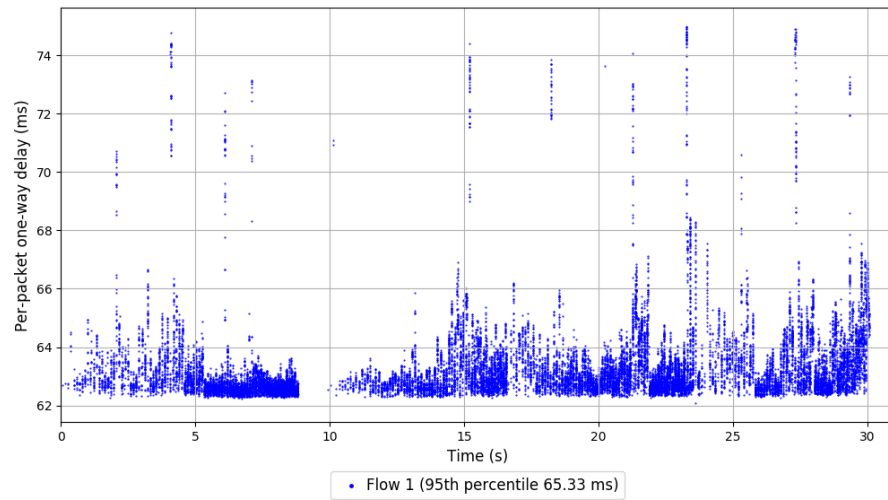
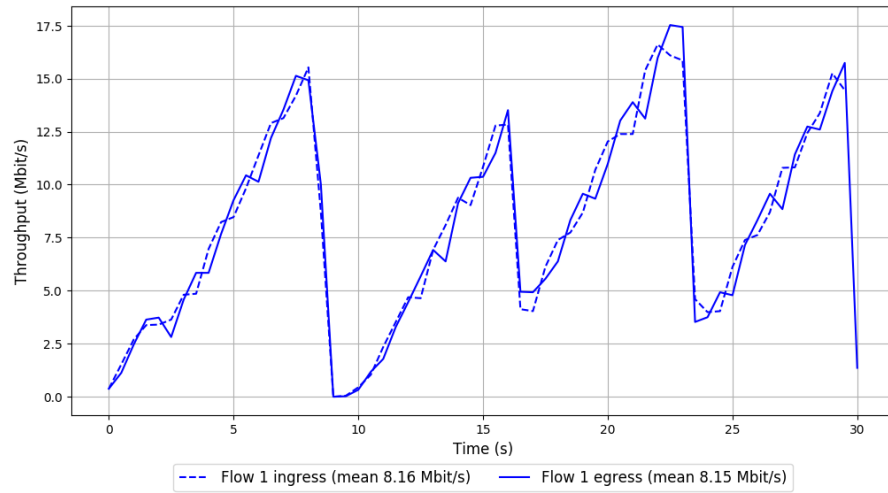


Run 3: Statistics of LEDBAT

Start at: 2018-03-20 15:23:41
End at: 2018-03-20 15:24:11
Local clock offset: 4.001 ms
Remote clock offset: -10.173 ms

Below is generated by plot.py at 2018-03-20 18:37:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 8.15 Mbit/s
95th percentile per-packet one-way delay: 65.326 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 8.15 Mbit/s
95th percentile per-packet one-way delay: 65.326 ms
Loss rate: 0.22%

Run 3: Report of LEDBAT — Data Link

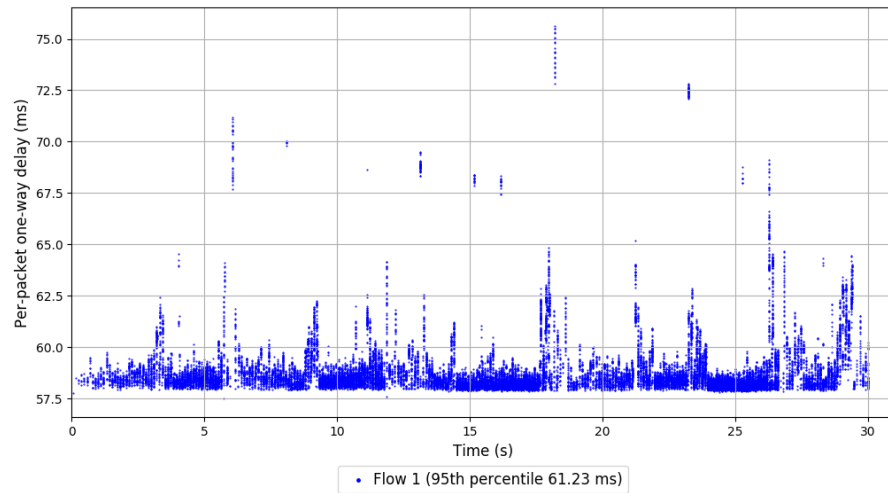
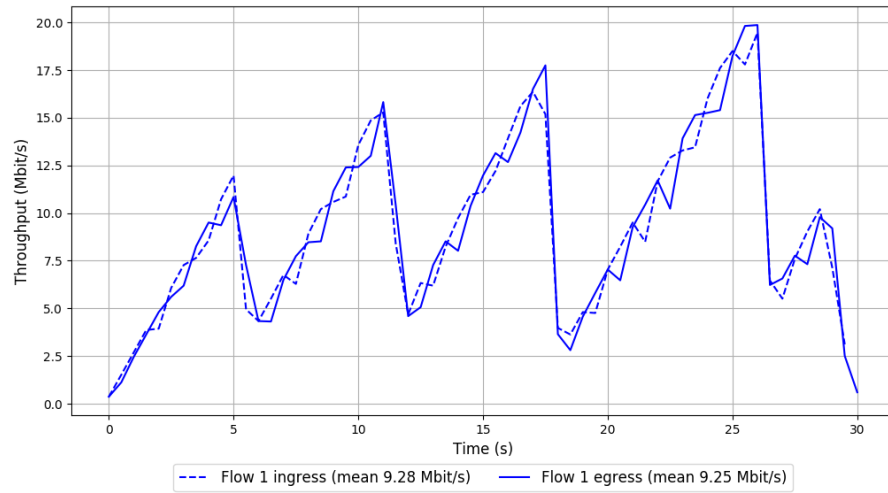


Run 4: Statistics of LEDBAT

Start at: 2018-03-20 15:46:44
End at: 2018-03-20 15:47:14
Local clock offset: 7.013 ms
Remote clock offset: -10.003 ms

Below is generated by plot.py at 2018-03-20 18:37:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.25 Mbit/s
95th percentile per-packet one-way delay: 61.233 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 9.25 Mbit/s
95th percentile per-packet one-way delay: 61.233 ms
Loss rate: 0.30%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-03-20 16:08:51

End at: 2018-03-20 16:09:21

Local clock offset: 6.207 ms

Remote clock offset: -8.69 ms

Below is generated by plot.py at 2018-03-20 18:37:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.23 Mbit/s

95th percentile per-packet one-way delay: 115.015 ms

Loss rate: 0.11%

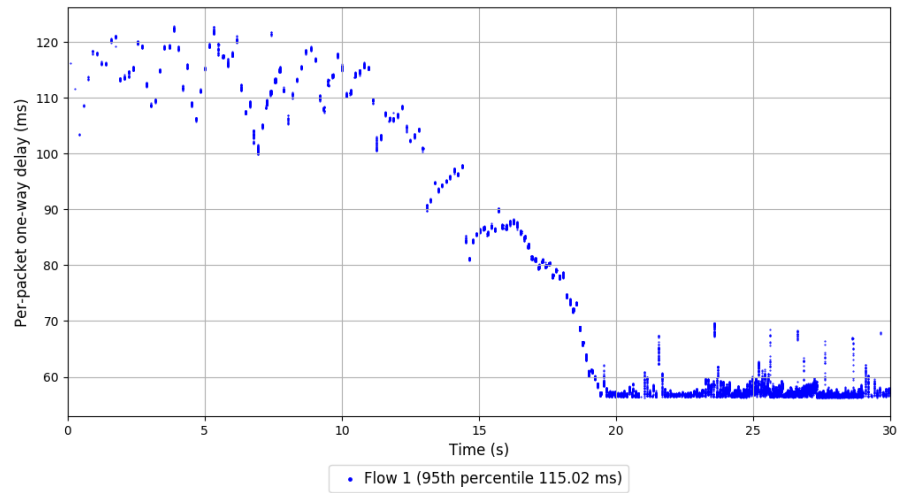
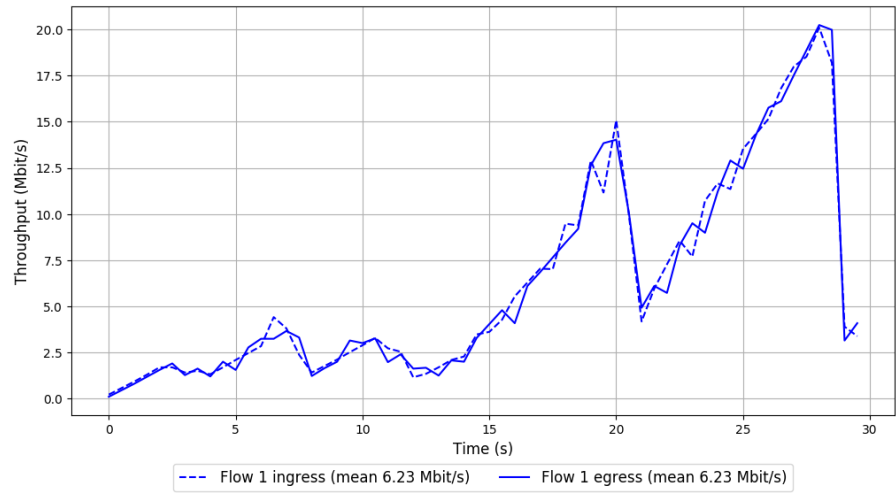
-- Flow 1:

Average throughput: 6.23 Mbit/s

95th percentile per-packet one-way delay: 115.015 ms

Loss rate: 0.11%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-03-20 16:31:03

End at: 2018-03-20 16:31:33

Local clock offset: 6.145 ms

Remote clock offset: 1.583 ms

Below is generated by plot.py at 2018-03-20 18:37:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.27 Mbit/s

95th percentile per-packet one-way delay: 67.196 ms

Loss rate: 0.45%

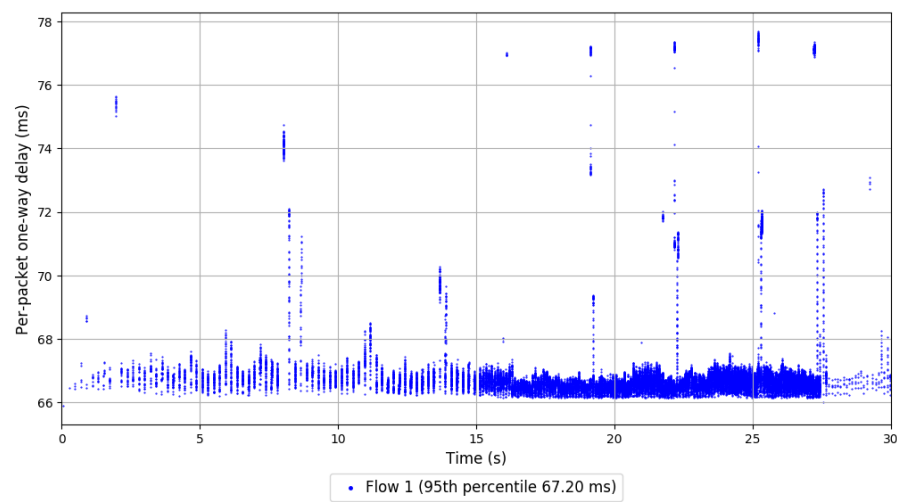
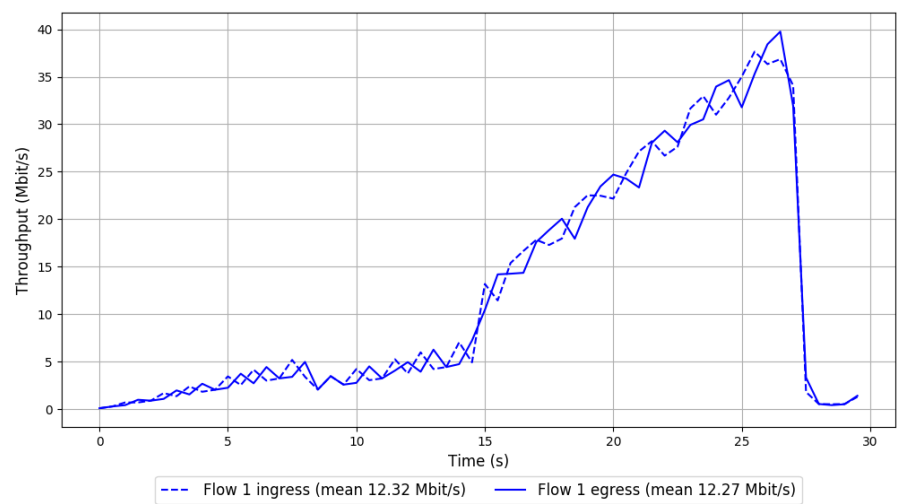
-- Flow 1:

Average throughput: 12.27 Mbit/s

95th percentile per-packet one-way delay: 67.196 ms

Loss rate: 0.45%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-03-20 16:55:55

End at: 2018-03-20 16:56:25

Local clock offset: -0.503 ms

Remote clock offset: 0.363 ms

Below is generated by plot.py at 2018-03-20 18:37:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.04 Mbit/s

95th percentile per-packet one-way delay: 67.624 ms

Loss rate: 0.48%

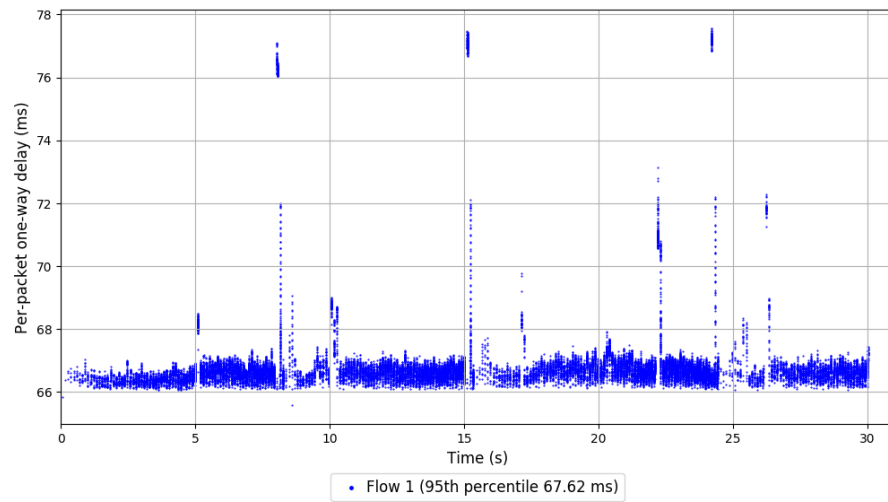
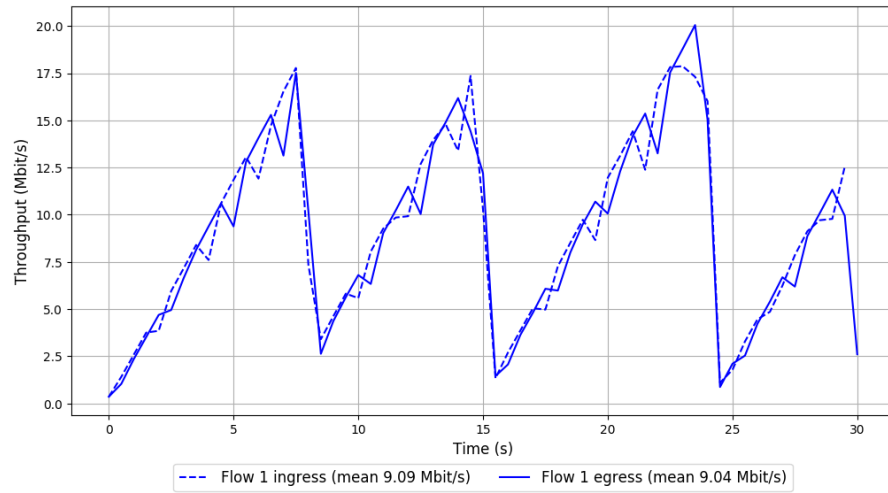
-- Flow 1:

Average throughput: 9.04 Mbit/s

95th percentile per-packet one-way delay: 67.624 ms

Loss rate: 0.48%

Run 7: Report of LEDBAT — Data Link

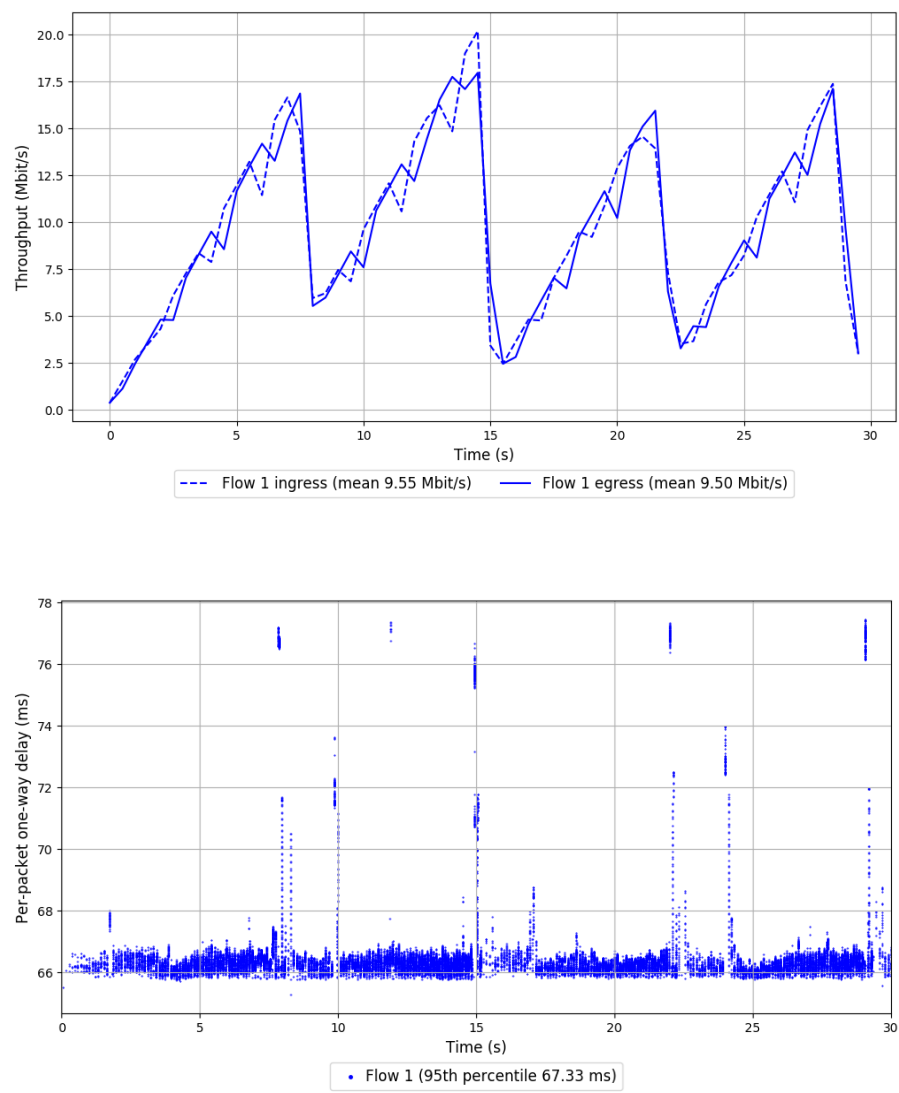


Run 8: Statistics of LEDBAT

Start at: 2018-03-20 17:17:54
End at: 2018-03-20 17:18:24
Local clock offset: -0.706 ms
Remote clock offset: -0.086 ms

Below is generated by plot.py at 2018-03-20 18:37:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.50 Mbit/s
95th percentile per-packet one-way delay: 67.330 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 9.50 Mbit/s
95th percentile per-packet one-way delay: 67.330 ms
Loss rate: 0.55%

Run 8: Report of LEDBAT — Data Link

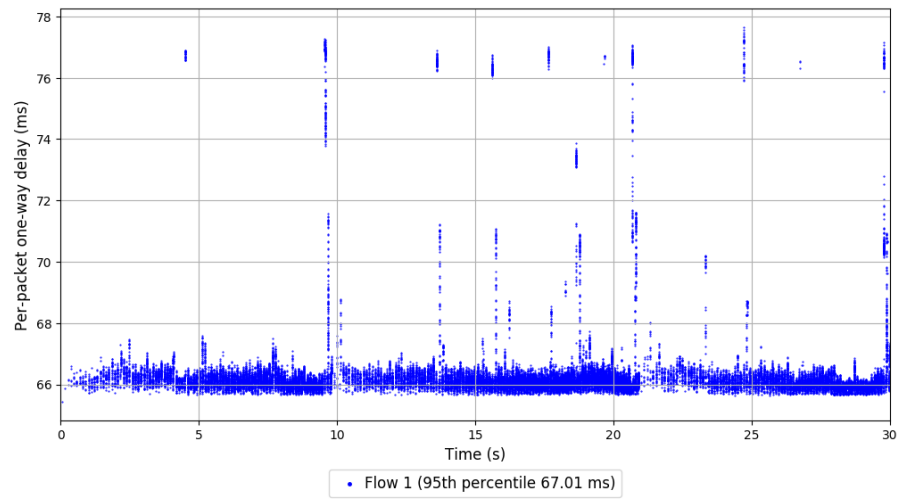
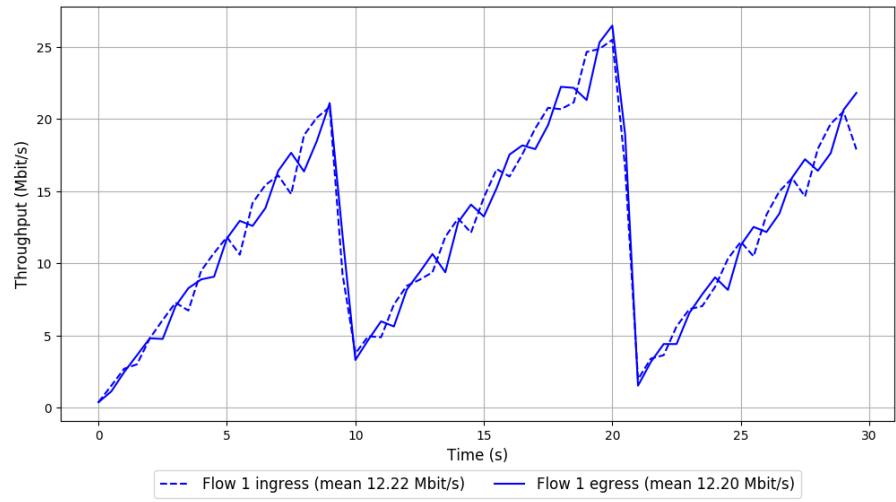


Run 9: Statistics of LEDBAT

Start at: 2018-03-20 17:39:39
End at: 2018-03-20 17:40:09
Local clock offset: -1.351 ms
Remote clock offset: -0.613 ms

Below is generated by plot.py at 2018-03-20 18:37:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.20 Mbit/s
95th percentile per-packet one-way delay: 67.010 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 12.20 Mbit/s
95th percentile per-packet one-way delay: 67.010 ms
Loss rate: 0.22%

Run 9: Report of LEDBAT — Data Link

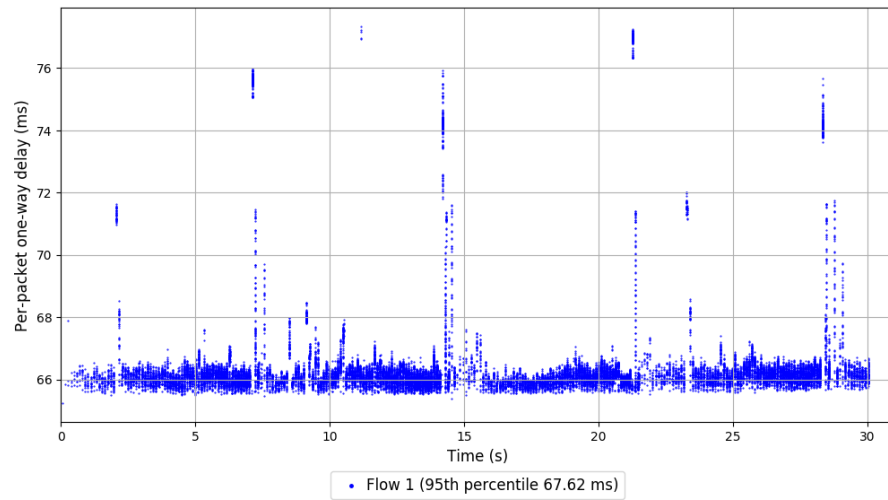
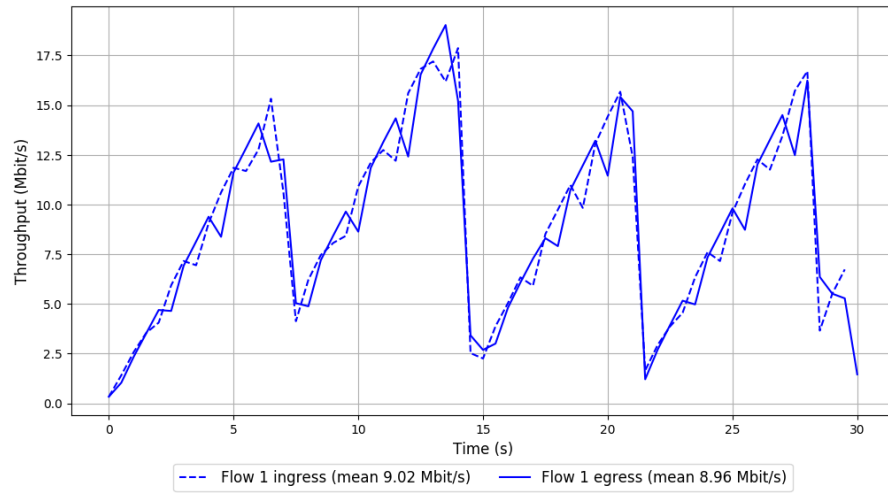


Run 10: Statistics of LEDBAT

Start at: 2018-03-20 18:03:43
End at: 2018-03-20 18:04:13
Local clock offset: 5.573 ms
Remote clock offset: -1.703 ms

Below is generated by plot.py at 2018-03-20 18:37:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 8.96 Mbit/s
95th percentile per-packet one-way delay: 67.616 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 8.96 Mbit/s
95th percentile per-packet one-way delay: 67.616 ms
Loss rate: 0.72%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

/home/ubuntu/pantheon_data/2018-03-20T14-24-AWS-Korea-to-China-10-runs/pcc_stats_run1.log d

Run 1: Report of PCC — Data Link

Figure is missing

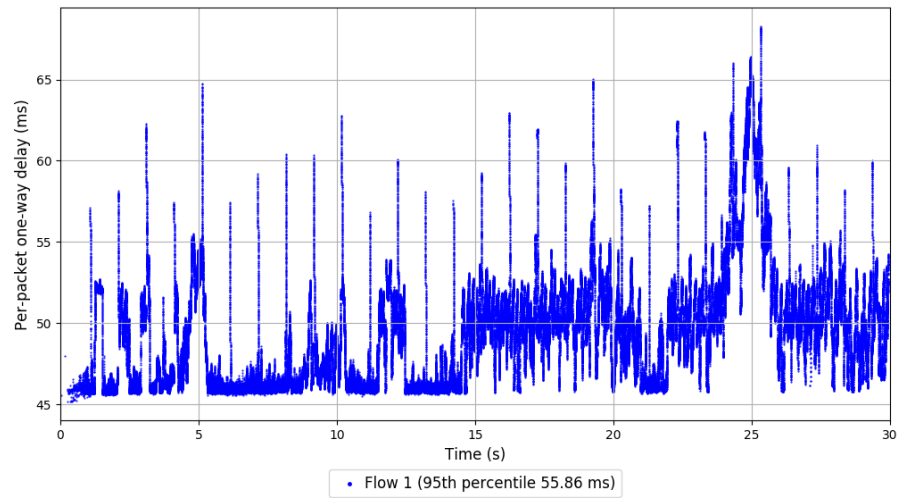
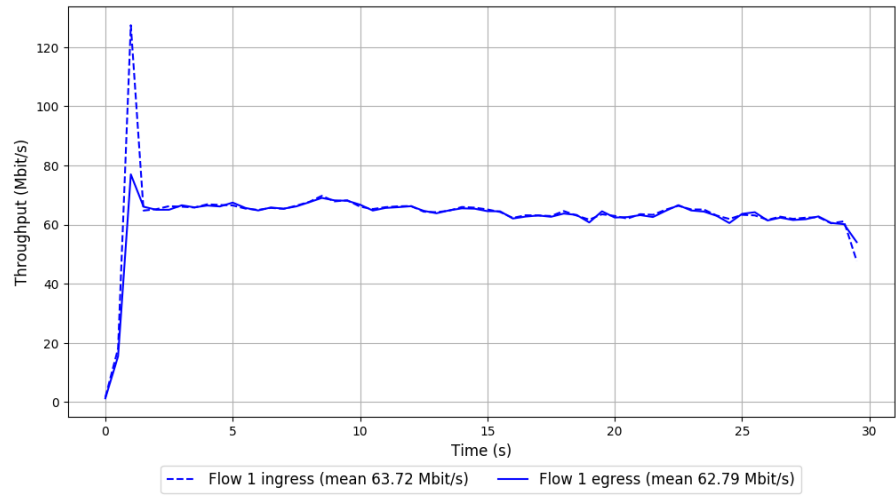
Figure is missing

Run 2: Statistics of PCC

Start at: 2018-03-20 15:02:48
End at: 2018-03-20 15:03:18
Local clock offset: 1.084 ms
Remote clock offset: -27.442 ms

Below is generated by plot.py at 2018-03-20 18:37:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 62.79 Mbit/s
95th percentile per-packet one-way delay: 55.862 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 62.79 Mbit/s
95th percentile per-packet one-way delay: 55.862 ms
Loss rate: 1.44%

Run 2: Report of PCC — Data Link

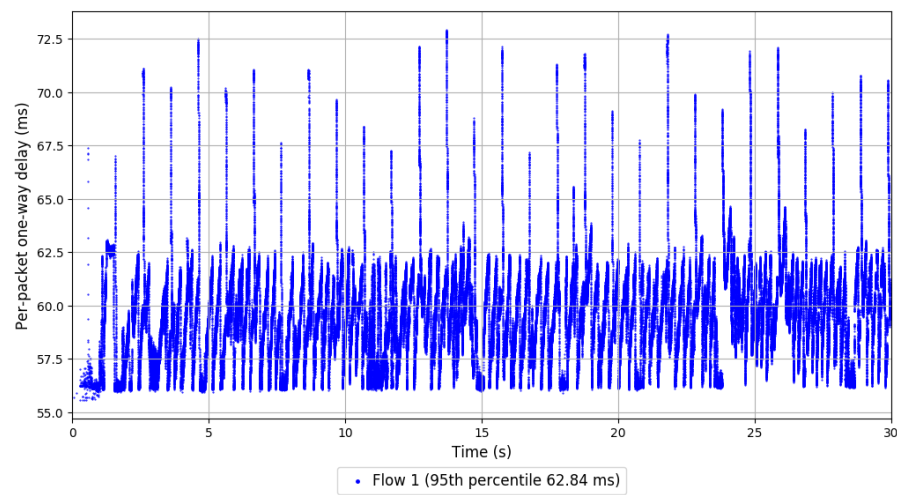
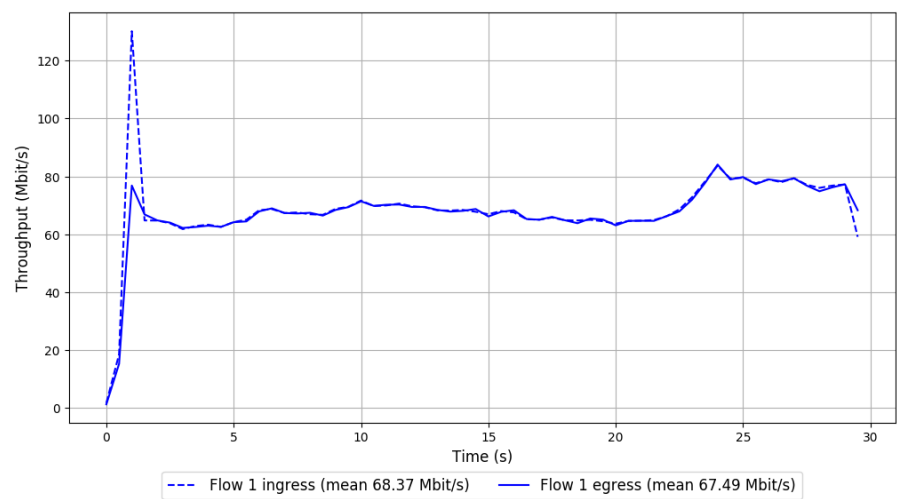


Run 3: Statistics of PCC

Start at: 2018-03-20 15:24:51
End at: 2018-03-20 15:25:21
Local clock offset: 3.53 ms
Remote clock offset: -17.411 ms

Below is generated by plot.py at 2018-03-20 18:37:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 67.49 Mbit/s
95th percentile per-packet one-way delay: 62.842 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 67.49 Mbit/s
95th percentile per-packet one-way delay: 62.842 ms
Loss rate: 1.27%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-03-20 15:47:53

End at: 2018-03-20 15:48:23

Local clock offset: 7.326 ms

Remote clock offset: -4.83 ms

Below is generated by plot.py at 2018-03-20 18:38:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.04 Mbit/s

95th percentile per-packet one-way delay: 76.156 ms

Loss rate: 1.36%

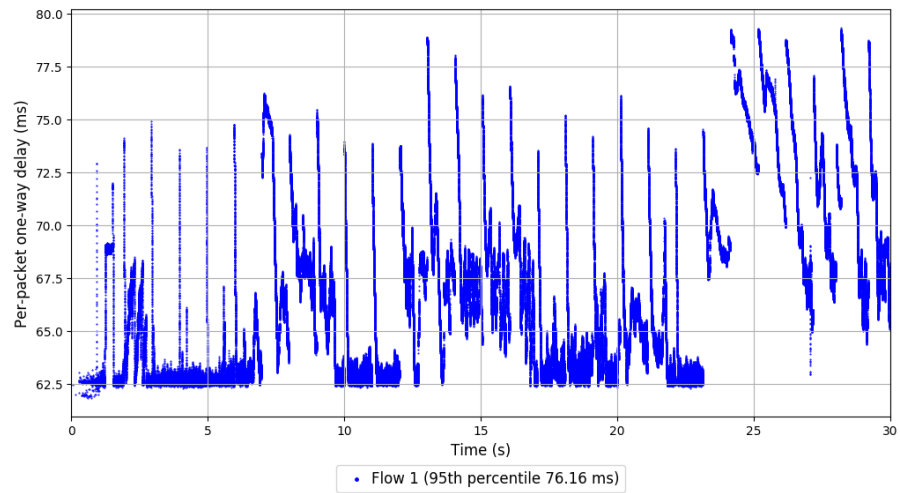
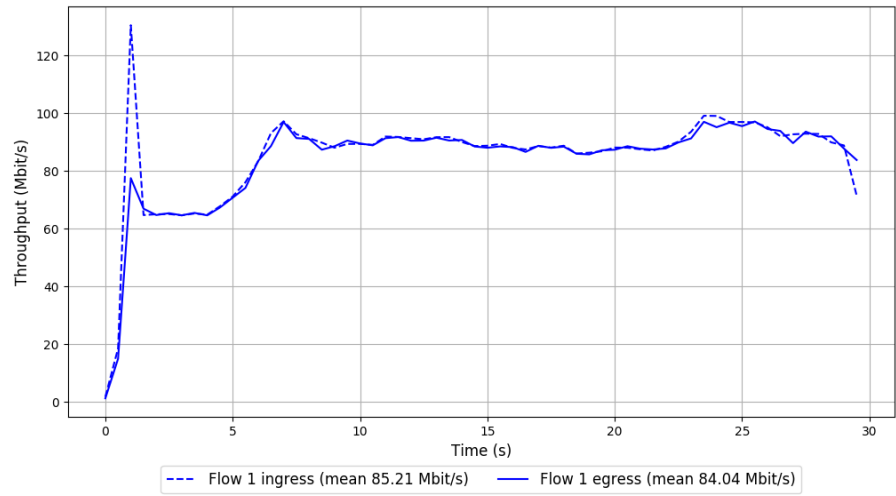
-- Flow 1:

Average throughput: 84.04 Mbit/s

95th percentile per-packet one-way delay: 76.156 ms

Loss rate: 1.36%

Run 4: Report of PCC — Data Link

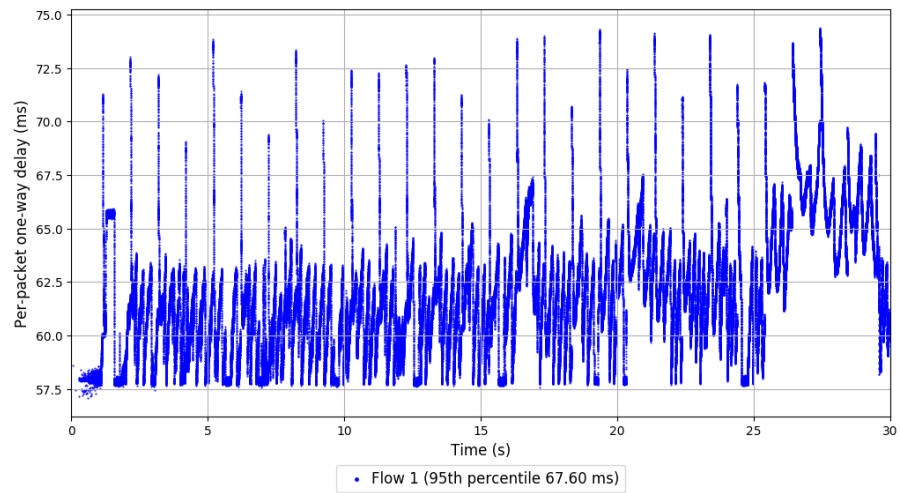
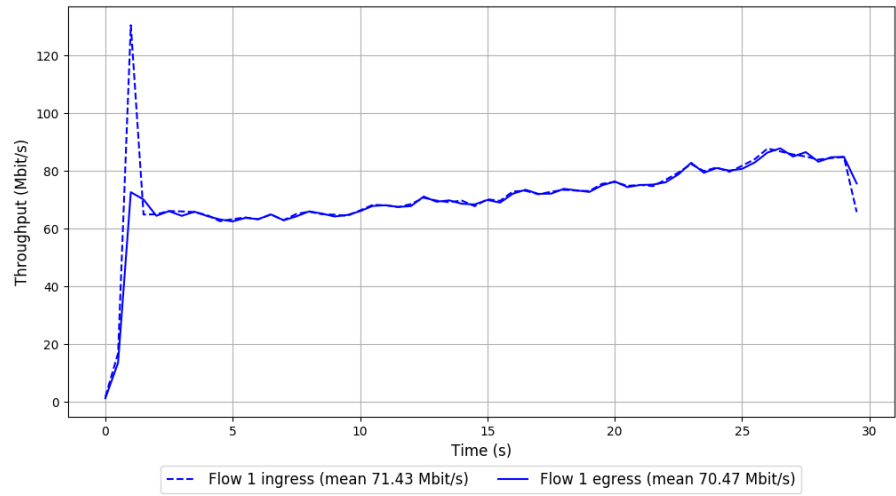


Run 5: Statistics of PCC

Start at: 2018-03-20 16:10:00
End at: 2018-03-20 16:10:30
Local clock offset: 6.676 ms
Remote clock offset: -6.827 ms

Below is generated by plot.py at 2018-03-20 18:38:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 70.47 Mbit/s
95th percentile per-packet one-way delay: 67.597 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 70.47 Mbit/s
95th percentile per-packet one-way delay: 67.597 ms
Loss rate: 1.33%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-03-20 16:32:18

End at: 2018-03-20 16:32:48

Local clock offset: 6.668 ms

Remote clock offset: 1.65 ms

Below is generated by plot.py at 2018-03-20 18:38:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.57 Mbit/s

95th percentile per-packet one-way delay: 81.945 ms

Loss rate: 1.13%

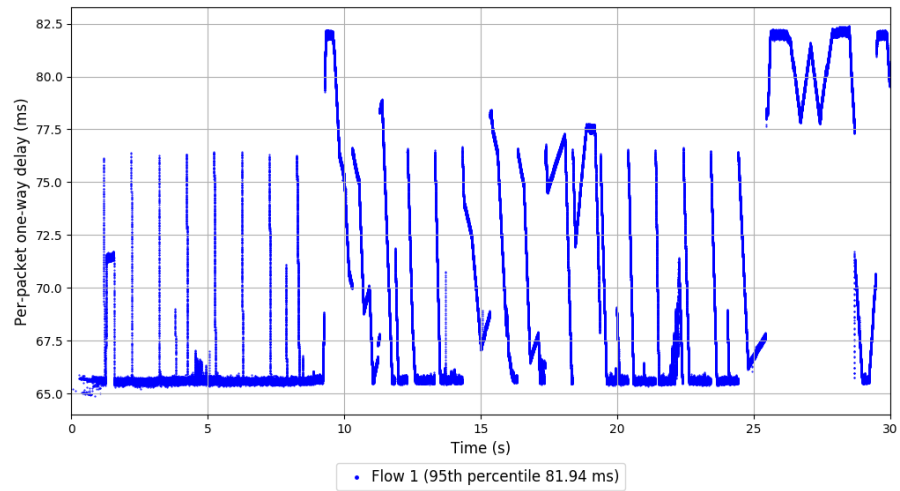
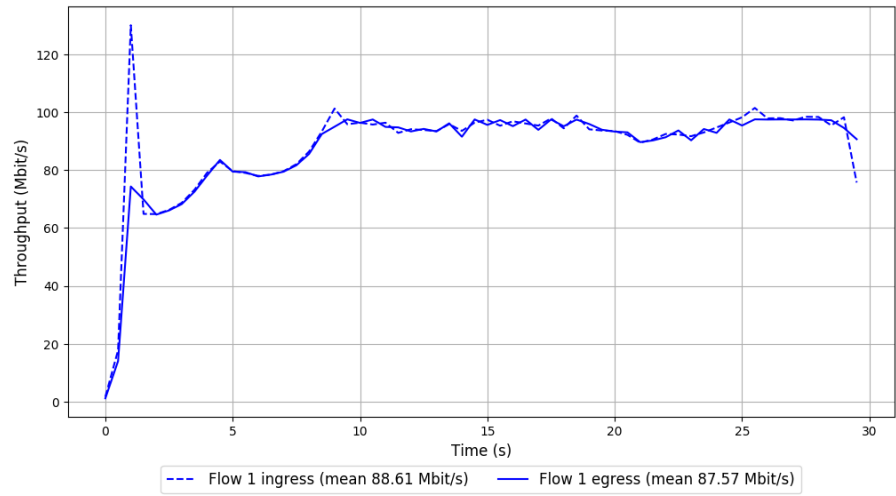
-- Flow 1:

Average throughput: 87.57 Mbit/s

95th percentile per-packet one-way delay: 81.945 ms

Loss rate: 1.13%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-03-20 16:57:05

End at: 2018-03-20 16:57:35

Local clock offset: -0.441 ms

Remote clock offset: 0.201 ms

Below is generated by plot.py at 2018-03-20 18:38:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.05 Mbit/s

95th percentile per-packet one-way delay: 73.231 ms

Loss rate: 0.89%

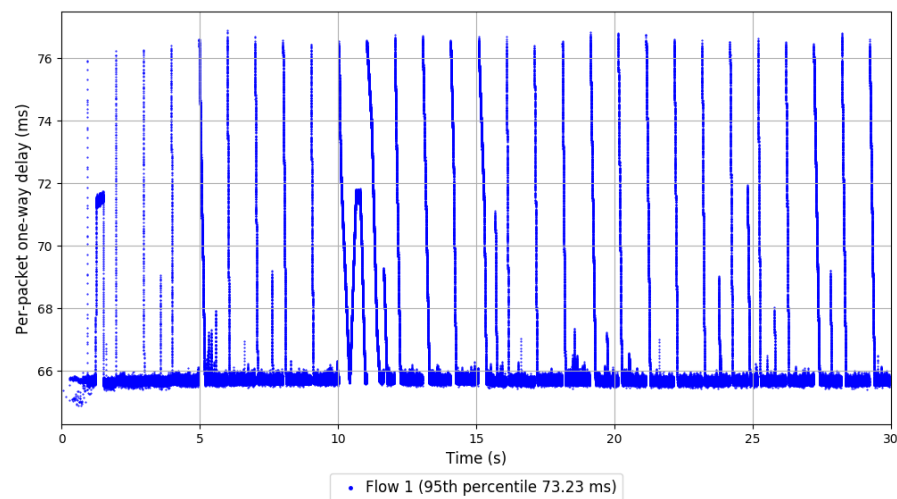
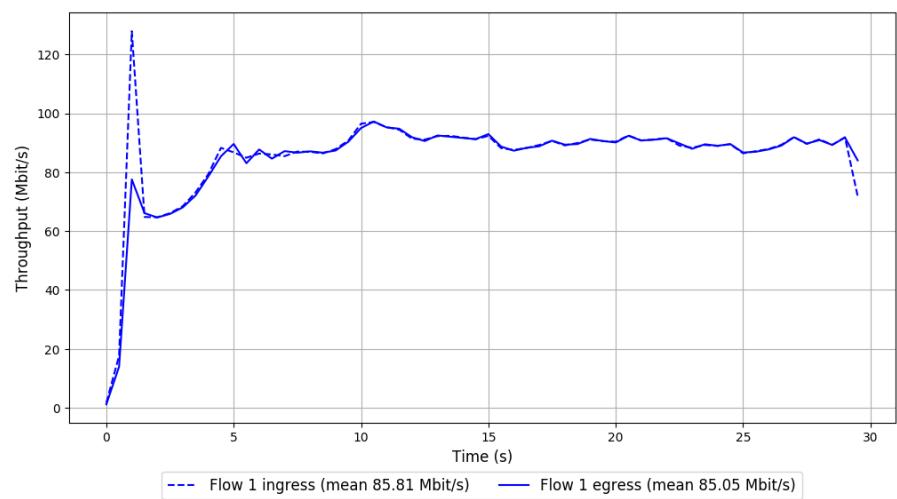
-- Flow 1:

Average throughput: 85.05 Mbit/s

95th percentile per-packet one-way delay: 73.231 ms

Loss rate: 0.89%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-03-20 17:19:04

End at: 2018-03-20 17:19:34

Local clock offset: -0.564 ms

Remote clock offset: -0.2 ms

Below is generated by plot.py at 2018-03-20 18:38:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.12 Mbit/s

95th percentile per-packet one-way delay: 77.161 ms

Loss rate: 0.96%

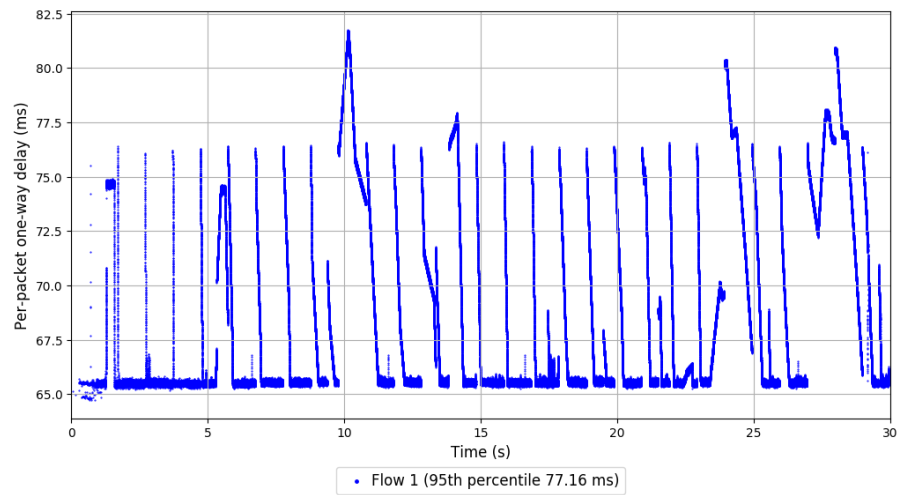
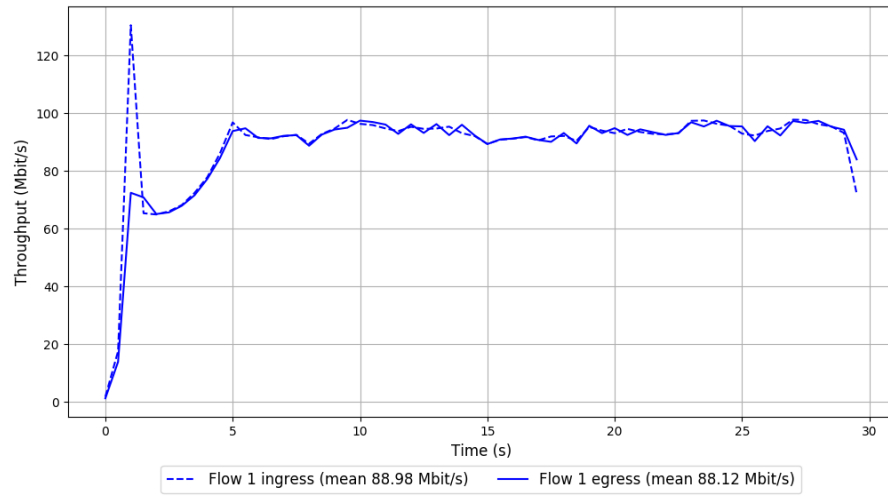
-- Flow 1:

Average throughput: 88.12 Mbit/s

95th percentile per-packet one-way delay: 77.161 ms

Loss rate: 0.96%

Run 8: Report of PCC — Data Link

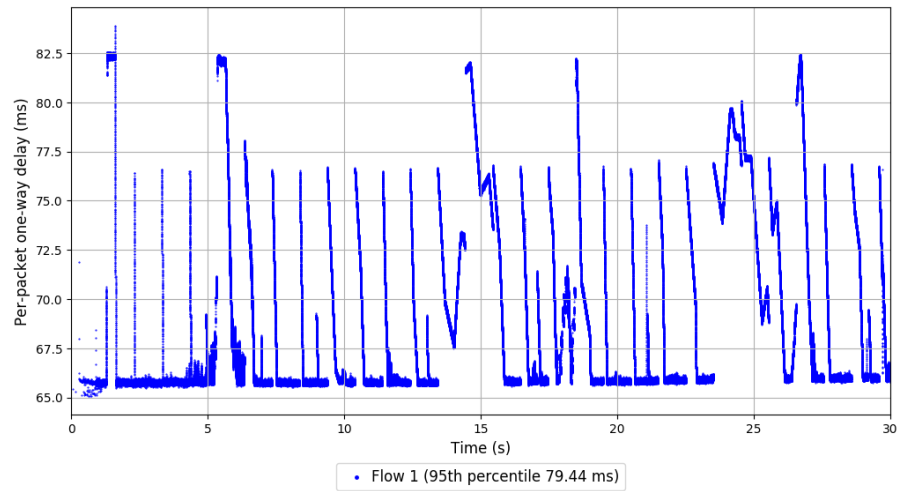
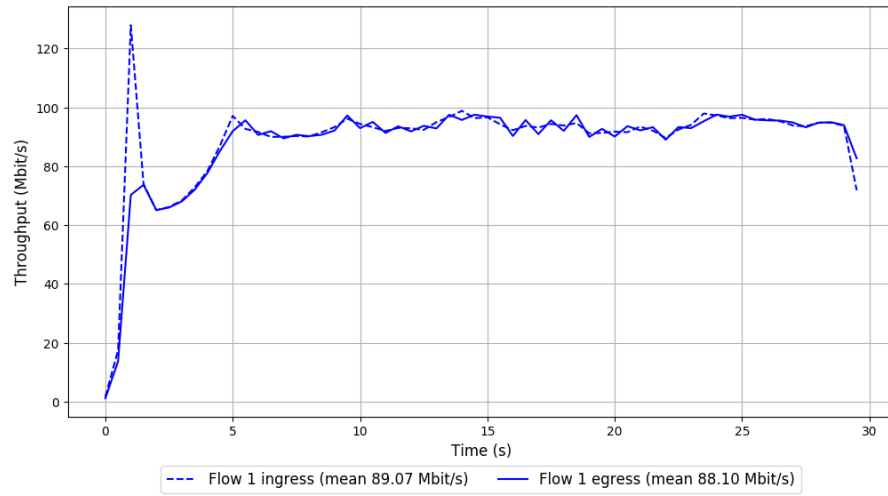


Run 9: Statistics of PCC

Start at: 2018-03-20 17:40:49
End at: 2018-03-20 17:41:19
Local clock offset: -1.289 ms
Remote clock offset: -0.672 ms

Below is generated by plot.py at 2018-03-20 18:38:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.10 Mbit/s
95th percentile per-packet one-way delay: 79.435 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 88.10 Mbit/s
95th percentile per-packet one-way delay: 79.435 ms
Loss rate: 1.09%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-03-20 18:04:53

End at: 2018-03-20 18:05:23

Local clock offset: 5.606 ms

Remote clock offset: -1.68 ms

Below is generated by plot.py at 2018-03-20 18:39:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.37 Mbit/s

95th percentile per-packet one-way delay: 76.407 ms

Loss rate: 0.97%

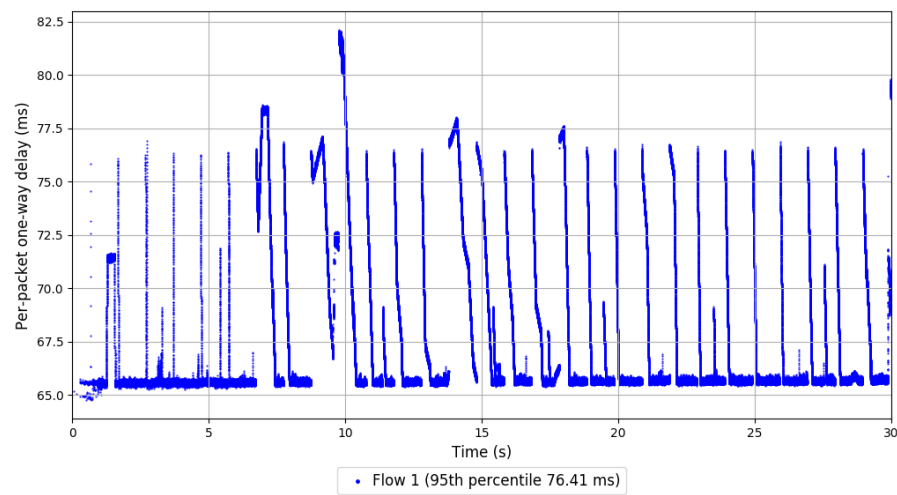
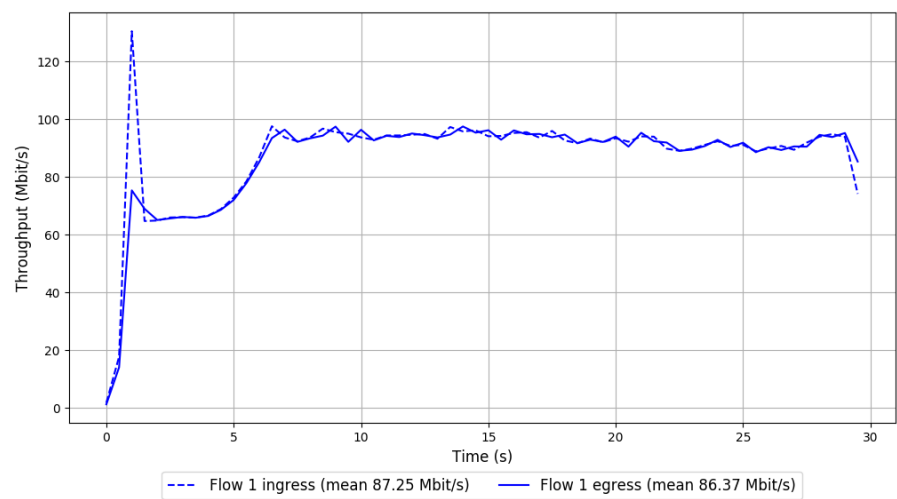
-- Flow 1:

Average throughput: 86.37 Mbit/s

95th percentile per-packet one-way delay: 76.407 ms

Loss rate: 0.97%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

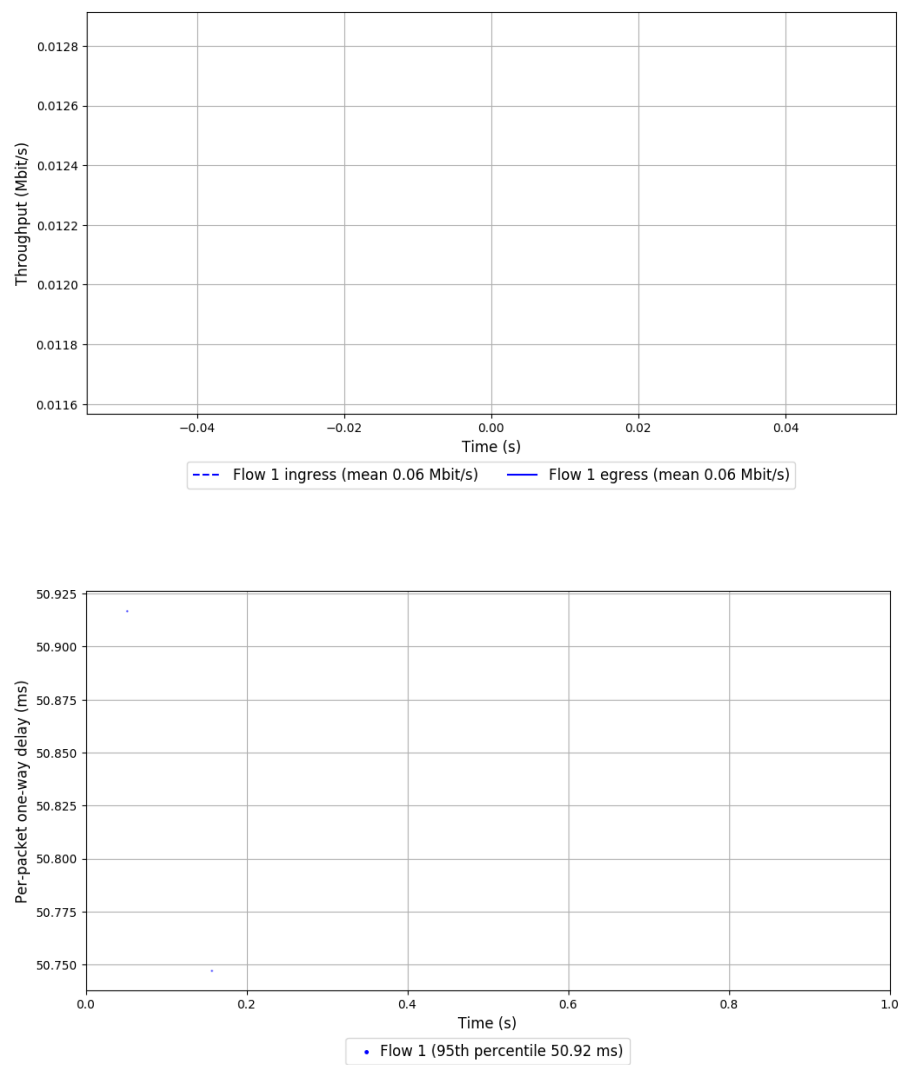
Start at: 2018-03-20 14:43:29

End at: 2018-03-20 14:43:59

Local clock offset: 4.299 ms

Remote clock offset: -18.687 ms

Run 1: Report of QUIC Cubic — Data Link

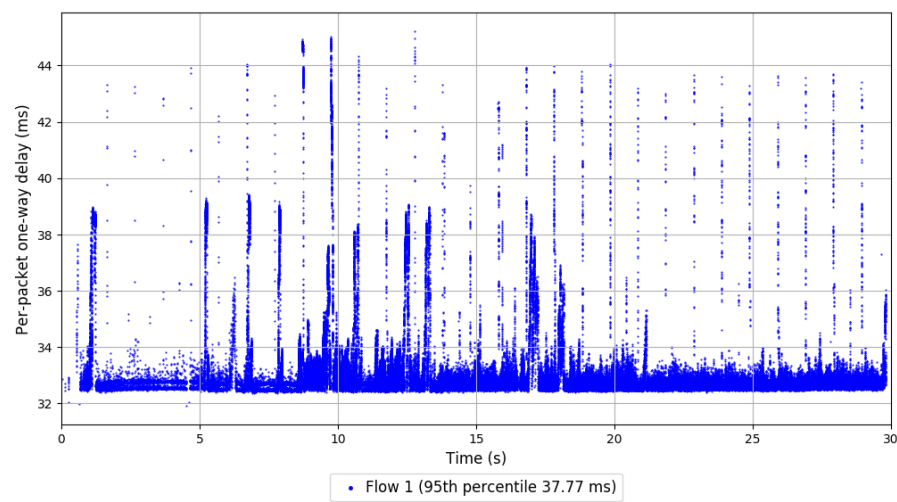
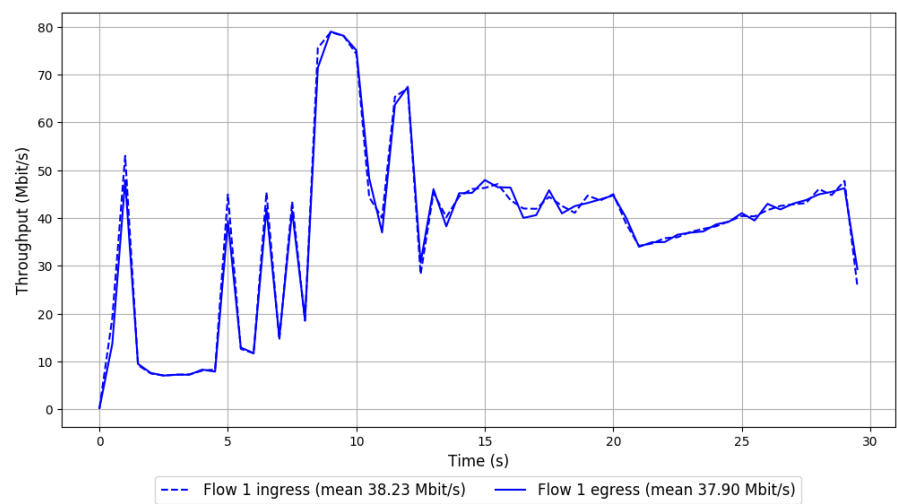


Run 2: Statistics of QUIC Cubic

Start at: 2018-03-20 15:05:09
End at: 2018-03-20 15:05:39
Local clock offset: 3.696 ms
Remote clock offset: -38.686 ms

Below is generated by plot.py at 2018-03-20 18:39:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 37.90 Mbit/s
95th percentile per-packet one-way delay: 37.771 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 37.90 Mbit/s
95th percentile per-packet one-way delay: 37.771 ms
Loss rate: 0.86%

Run 2: Report of QUIC Cubic — Data Link

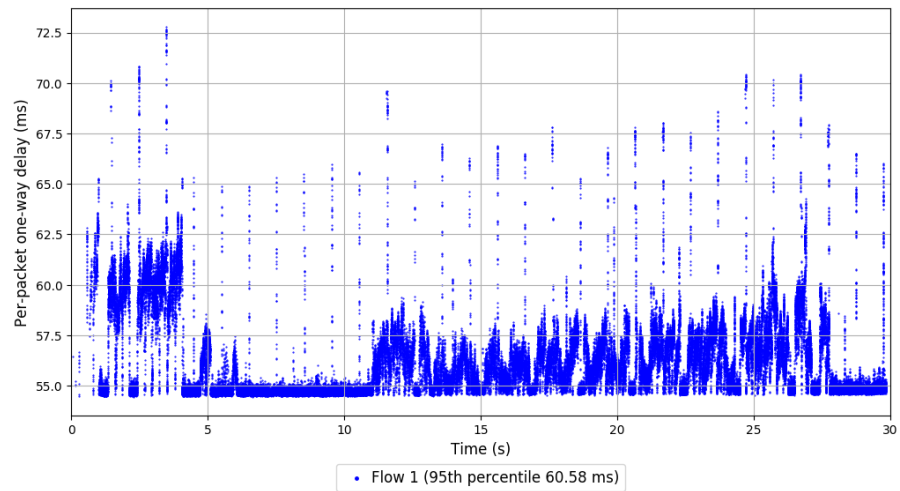
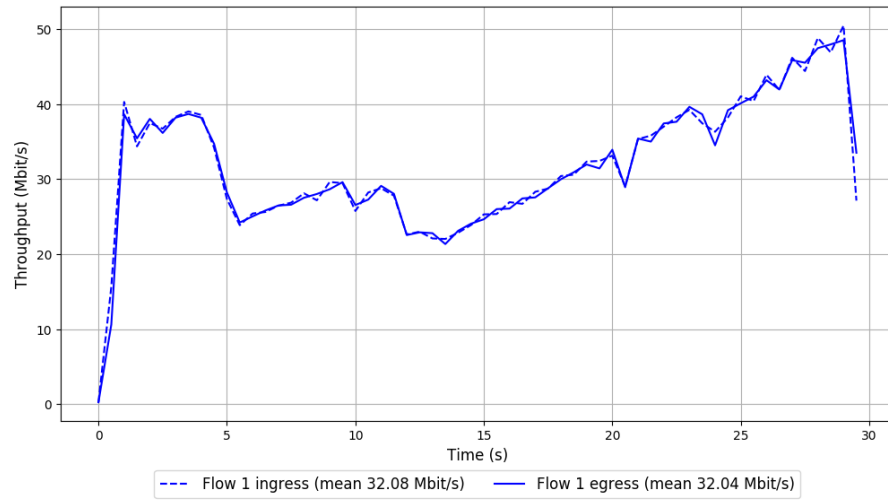


Run 3: Statistics of QUIC Cubic

Start at: 2018-03-20 15:27:15
End at: 2018-03-20 15:27:45
Local clock offset: 4.494 ms
Remote clock offset: -18.255 ms

Below is generated by plot.py at 2018-03-20 18:39:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 32.04 Mbit/s
95th percentile per-packet one-way delay: 60.577 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 32.04 Mbit/s
95th percentile per-packet one-way delay: 60.577 ms
Loss rate: 0.15%

Run 3: Report of QUIC Cubic — Data Link

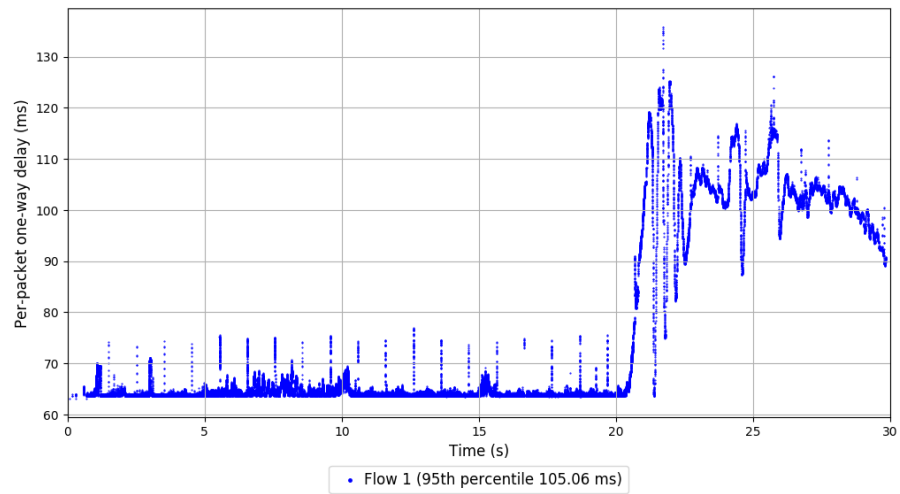
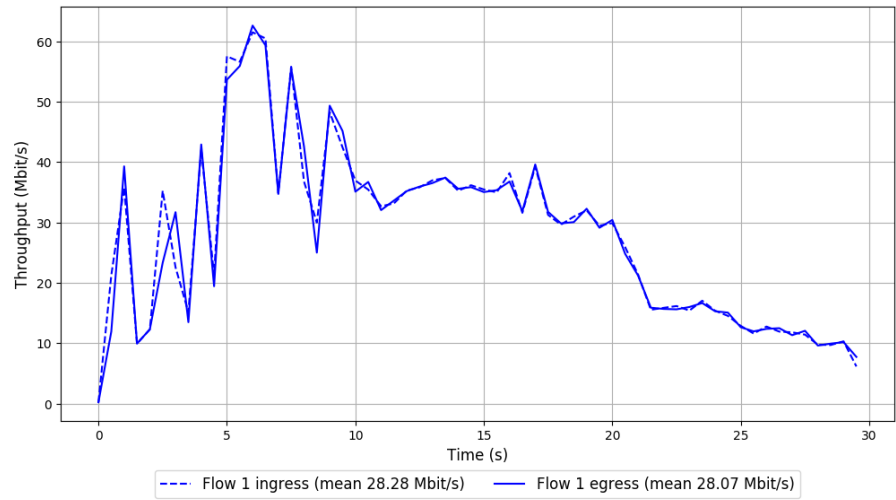


Run 4: Statistics of QUIC Cubic

Start at: 2018-03-20 15:50:21
End at: 2018-03-20 15:50:51
Local clock offset: 7.342 ms
Remote clock offset: -3.465 ms

Below is generated by plot.py at 2018-03-20 18:39:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 28.07 Mbit/s
95th percentile per-packet one-way delay: 105.060 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 28.07 Mbit/s
95th percentile per-packet one-way delay: 105.060 ms
Loss rate: 0.73%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-03-20 16:12:24

End at: 2018-03-20 16:12:55

Local clock offset: 6.652 ms

Remote clock offset: -0.783 ms

Below is generated by plot.py at 2018-03-20 18:39:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.54 Mbit/s

95th percentile per-packet one-way delay: 79.799 ms

Loss rate: 0.42%

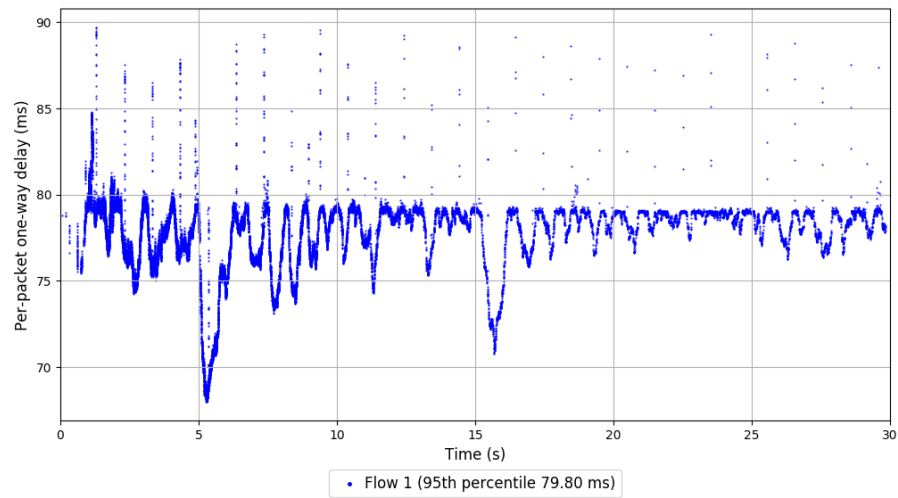
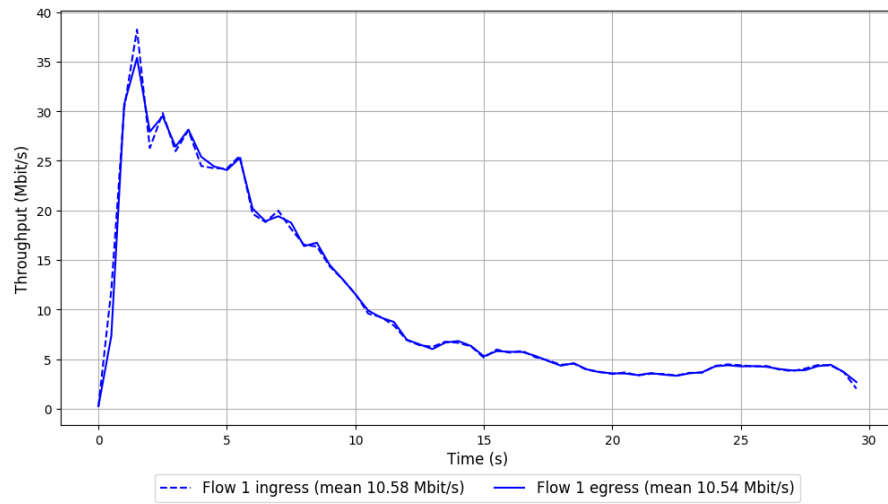
-- Flow 1:

Average throughput: 10.54 Mbit/s

95th percentile per-packet one-way delay: 79.799 ms

Loss rate: 0.42%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-03-20 16:35:41

End at: 2018-03-20 16:36:11

Local clock offset: 5.415 ms

Remote clock offset: 1.818 ms

Below is generated by plot.py at 2018-03-20 18:39:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.00 Mbit/s

95th percentile per-packet one-way delay: 69.781 ms

Loss rate: 0.66%

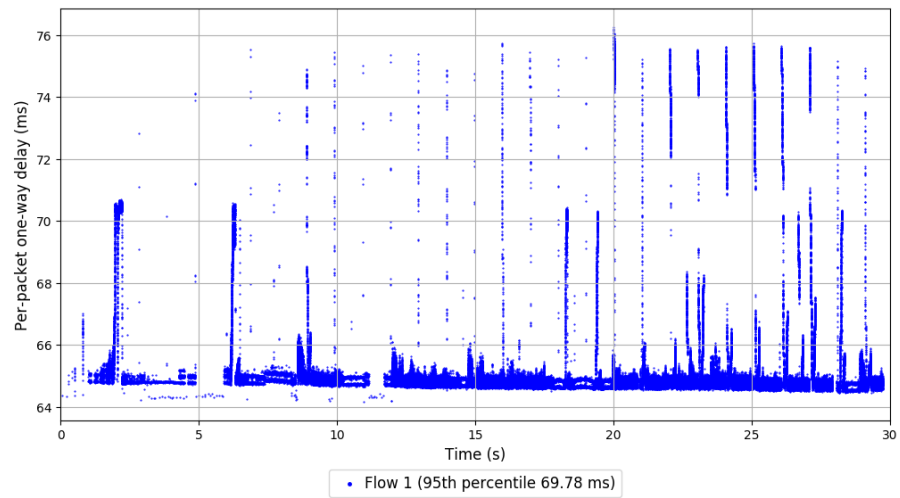
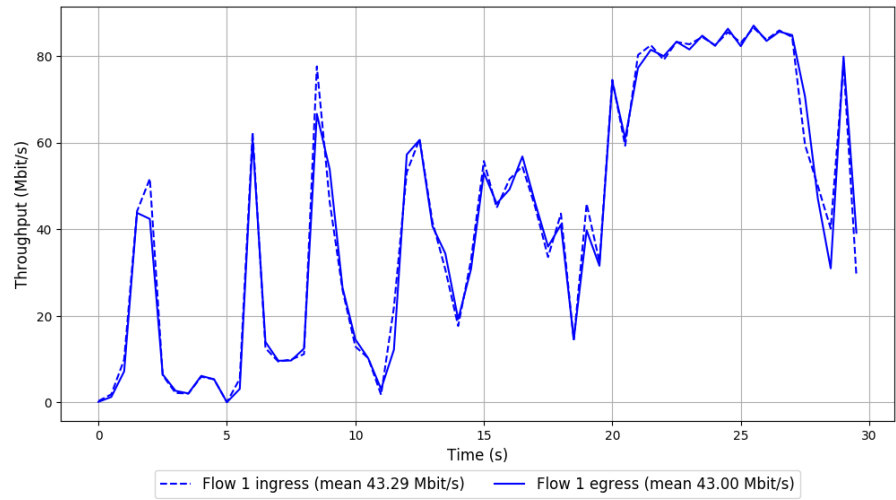
-- Flow 1:

Average throughput: 43.00 Mbit/s

95th percentile per-packet one-way delay: 69.781 ms

Loss rate: 0.66%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-03-20 16:59:26

End at: 2018-03-20 16:59:56

Local clock offset: -0.418 ms

Remote clock offset: 0.067 ms

Below is generated by plot.py at 2018-03-20 18:39:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.77 Mbit/s

95th percentile per-packet one-way delay: 69.961 ms

Loss rate: 0.66%

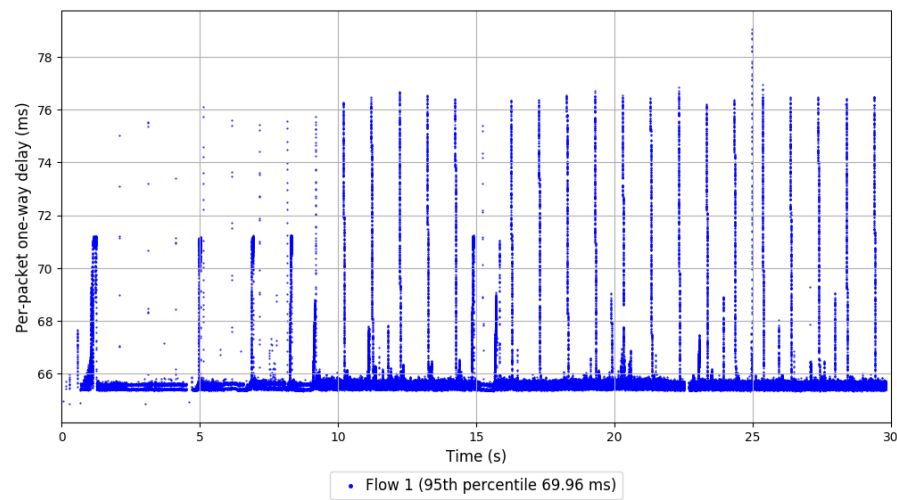
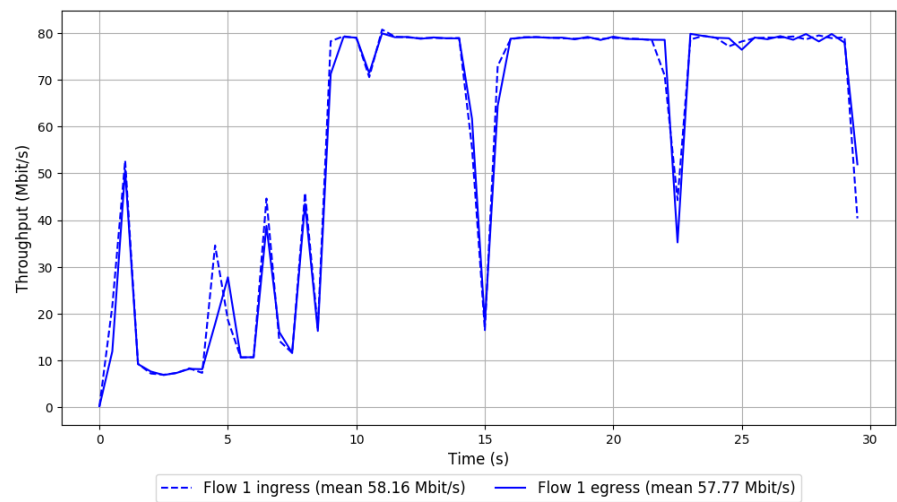
-- Flow 1:

Average throughput: 57.77 Mbit/s

95th percentile per-packet one-way delay: 69.961 ms

Loss rate: 0.66%

Run 7: Report of QUIC Cubic — Data Link

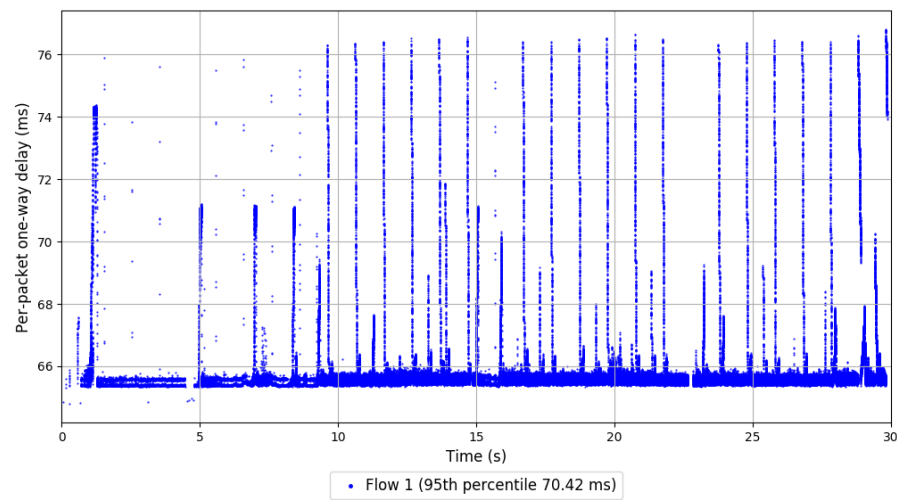
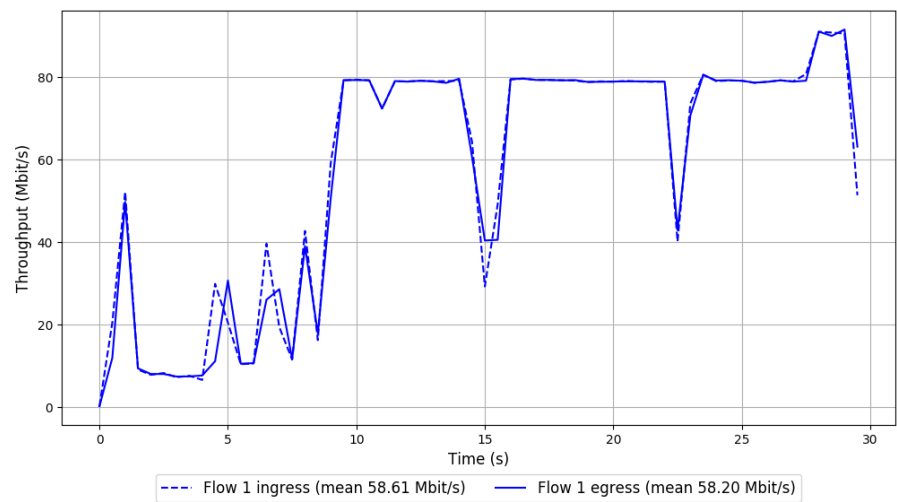


Run 8: Statistics of QUIC Cubic

Start at: 2018-03-20 17:21:25
End at: 2018-03-20 17:21:55
Local clock offset: -0.708 ms
Remote clock offset: -0.322 ms

Below is generated by plot.py at 2018-03-20 18:39:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 58.20 Mbit/s
95th percentile per-packet one-way delay: 70.423 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 58.20 Mbit/s
95th percentile per-packet one-way delay: 70.423 ms
Loss rate: 0.67%

Run 8: Report of QUIC Cubic — Data Link

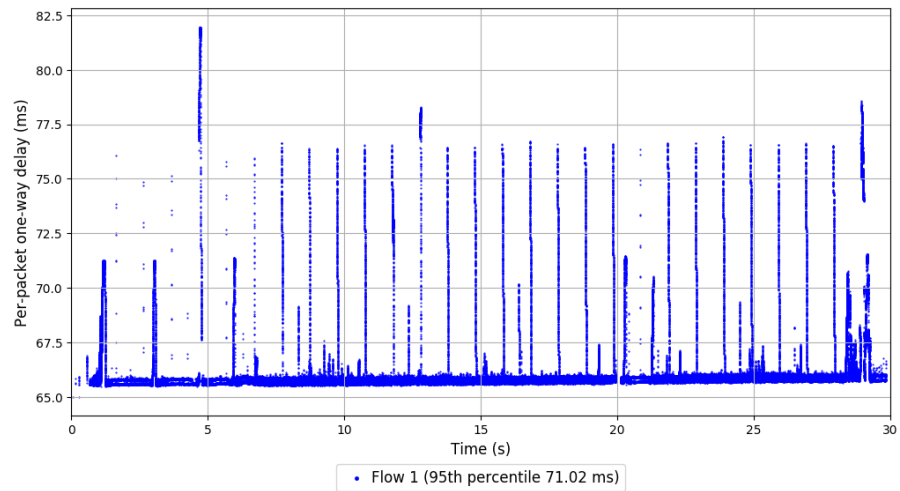
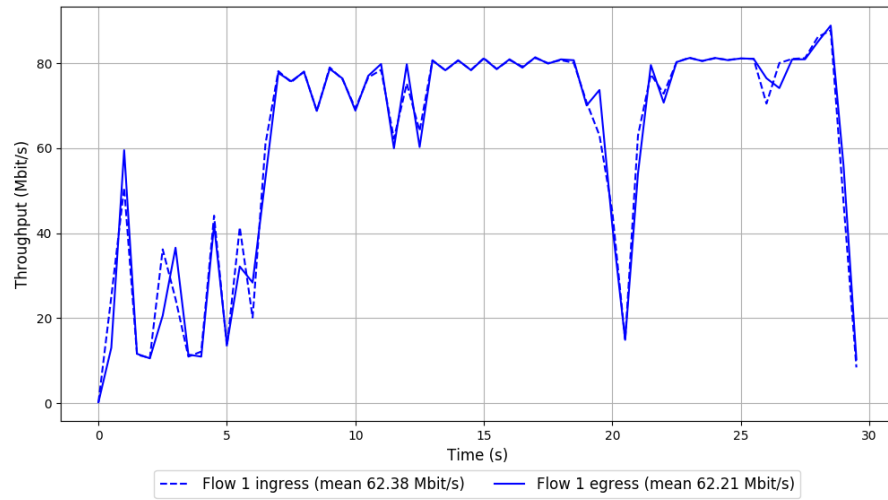


Run 9: Statistics of QUIC Cubic

Start at: 2018-03-20 17:43:11
End at: 2018-03-20 17:43:41
Local clock offset: -0.075 ms
Remote clock offset: -0.677 ms

Below is generated by plot.py at 2018-03-20 18:39:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 62.21 Mbit/s
95th percentile per-packet one-way delay: 71.023 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 62.21 Mbit/s
95th percentile per-packet one-way delay: 71.023 ms
Loss rate: 0.27%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-03-20 18:07:18

End at: 2018-03-20 18:07:48

Local clock offset: 6.03 ms

Remote clock offset: -1.848 ms

Below is generated by plot.py at 2018-03-20 18:39:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.03 Mbit/s

95th percentile per-packet one-way delay: 72.679 ms

Loss rate: 0.68%

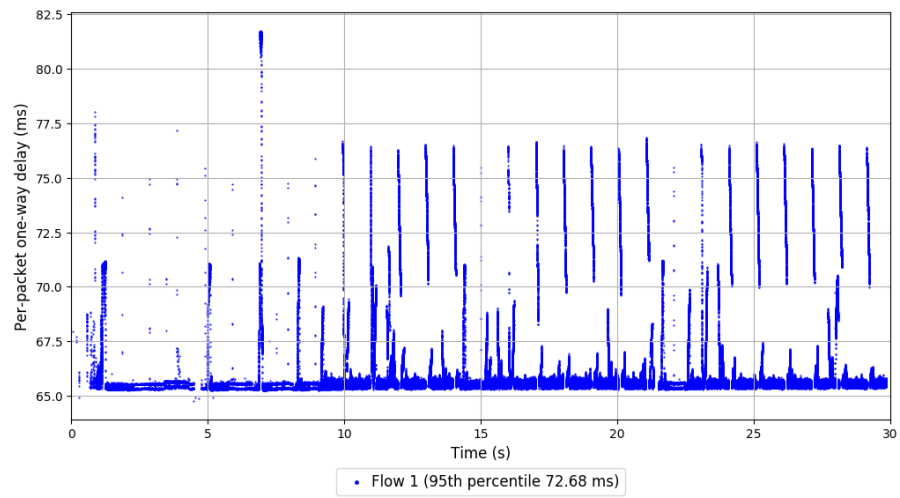
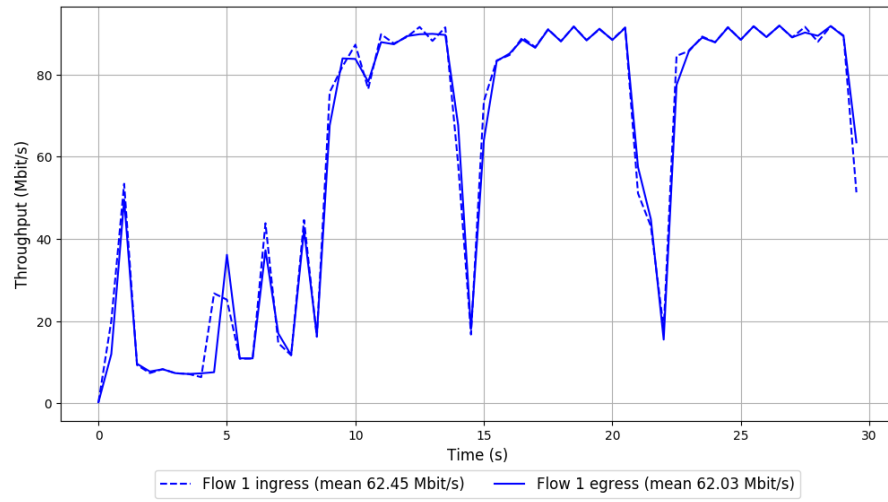
-- Flow 1:

Average throughput: 62.03 Mbit/s

95th percentile per-packet one-way delay: 72.679 ms

Loss rate: 0.68%

Run 10: Report of QUIC Cubic — Data Link

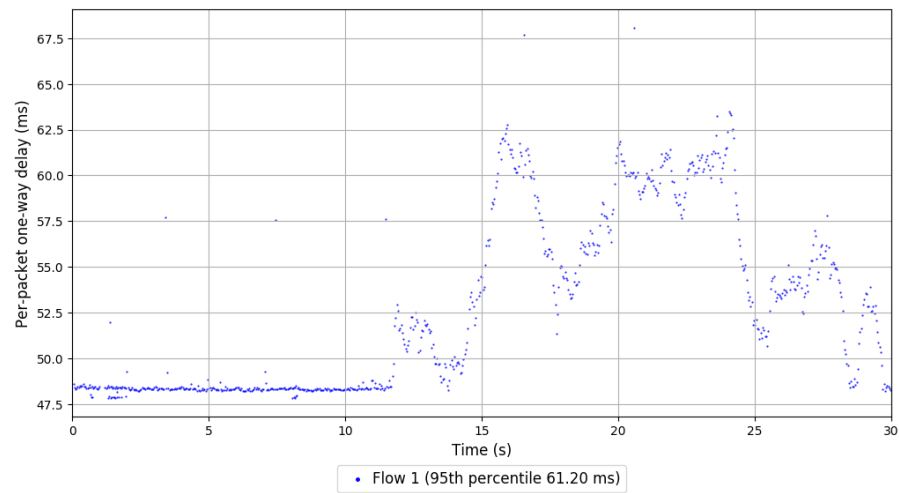
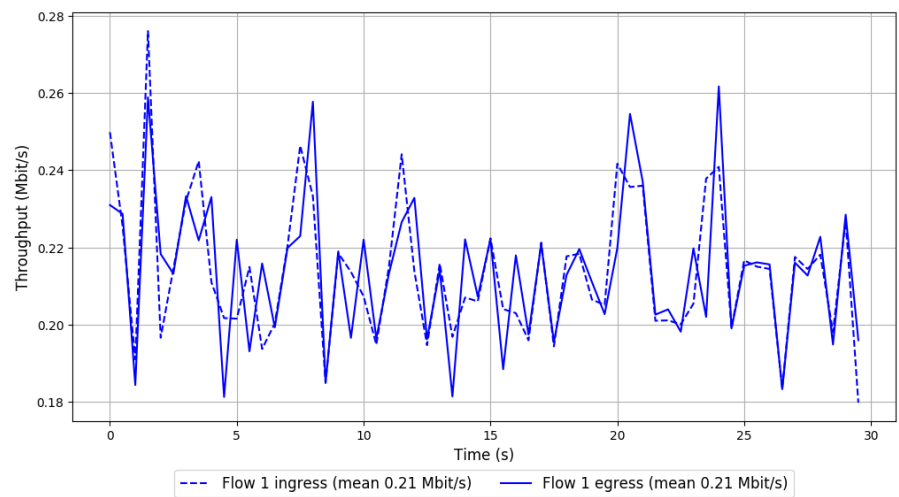


```
Run 1: Statistics of SCReAM

Start at: 2018-03-20 14:36:19
End at: 2018-03-20 14:36:49
Local clock offset: 4.508 ms
Remote clock offset: -22.095 ms

# Below is generated by plot.py at 2018-03-20 18:39:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 61.197 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 61.197 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

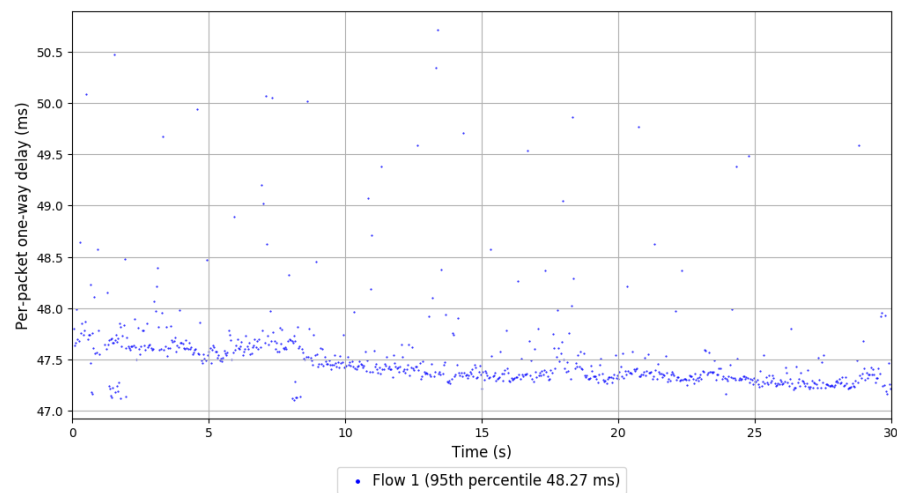
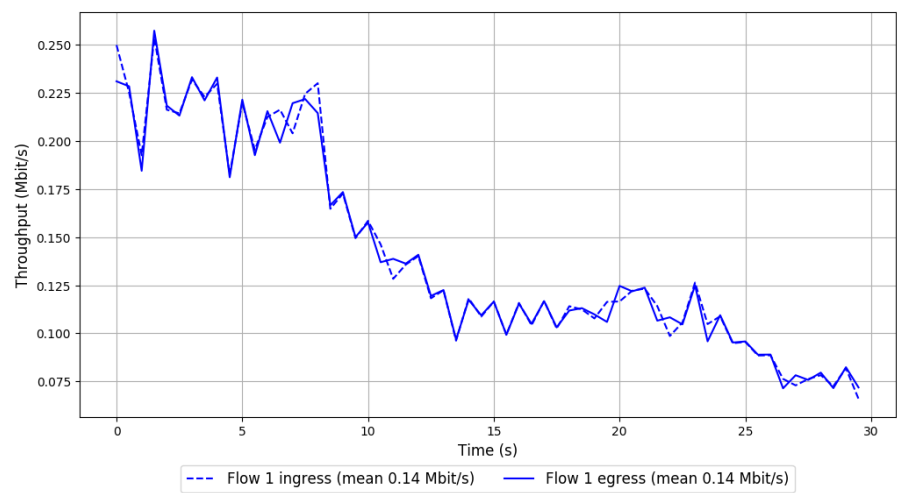


Run 2: Statistics of SCReAM

Start at: 2018-03-20 14:59:15
End at: 2018-03-20 14:59:45
Local clock offset: 3.848 ms
Remote clock offset: -22.399 ms

Below is generated by plot.py at 2018-03-20 18:39:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 48.268 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 48.268 ms
Loss rate: 0.36%

Run 2: Report of SReAM — Data Link

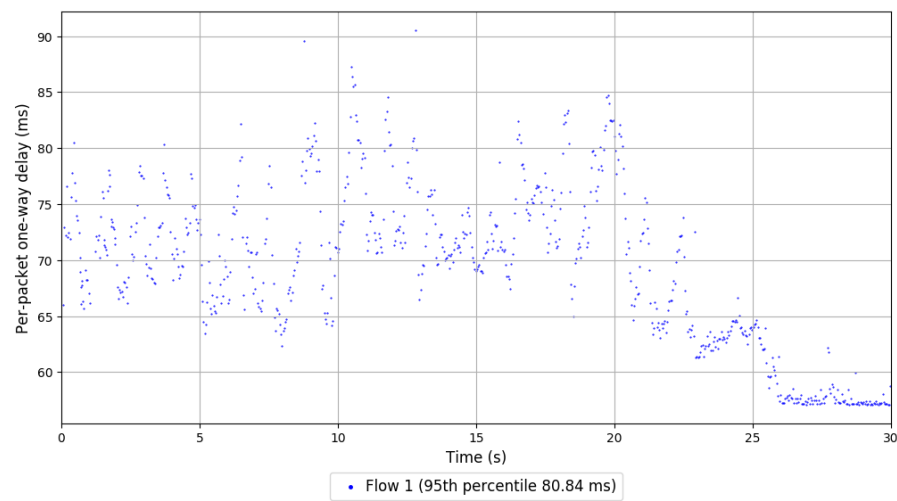
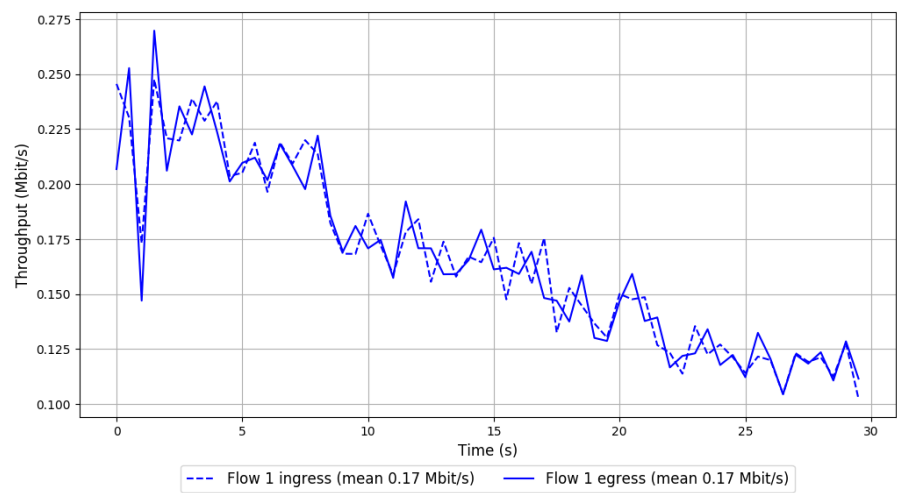


Run 3: Statistics of SCReAM

Start at: 2018-03-20 15:21:15
End at: 2018-03-20 15:21:45
Local clock offset: 3.943 ms
Remote clock offset: -15.046 ms

Below is generated by plot.py at 2018-03-20 18:39:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 80.845 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 80.845 ms
Loss rate: 0.33%

Run 3: Report of SReAM — Data Link

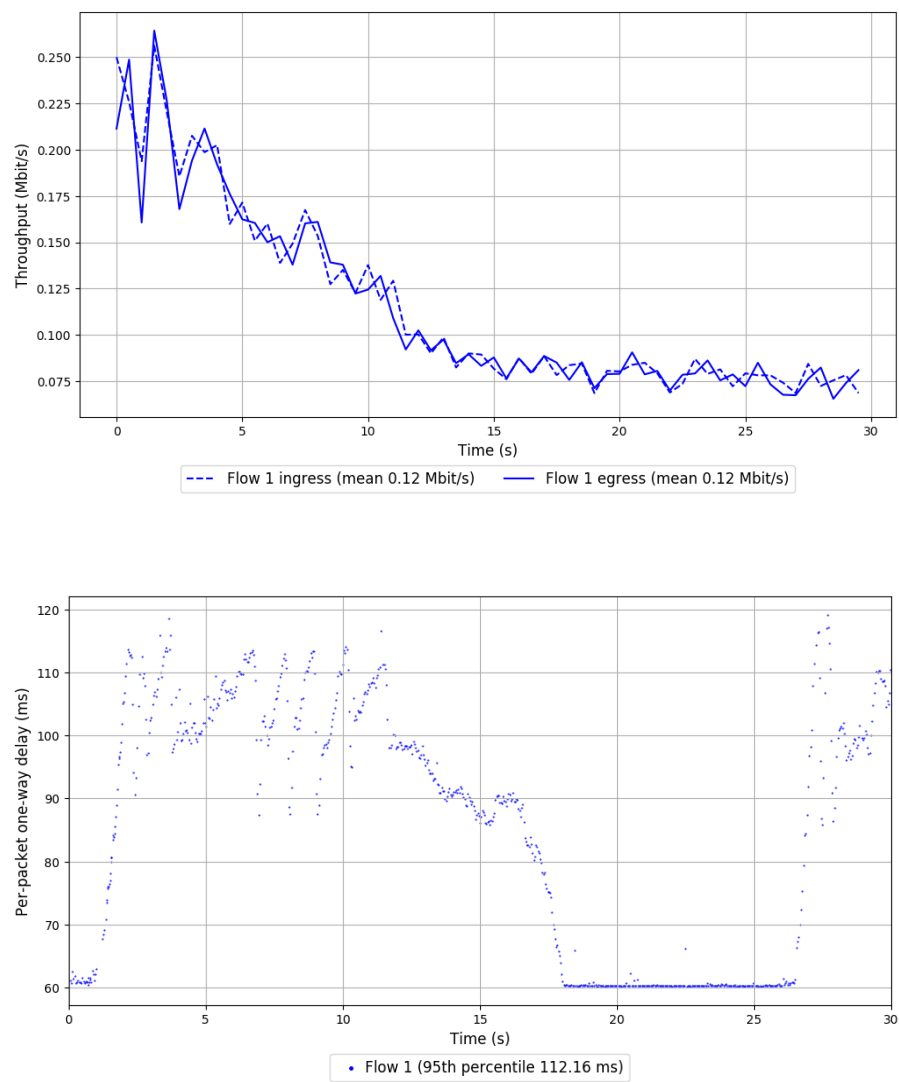


Run 4: Statistics of SCReAM

Start at: 2018-03-20 15:44:20
End at: 2018-03-20 15:44:50
Local clock offset: 7.122 ms
Remote clock offset: -7.779 ms

Below is generated by plot.py at 2018-03-20 18:39:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 112.164 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 112.164 ms
Loss rate: 0.98%

Run 4: Report of SReAM — Data Link

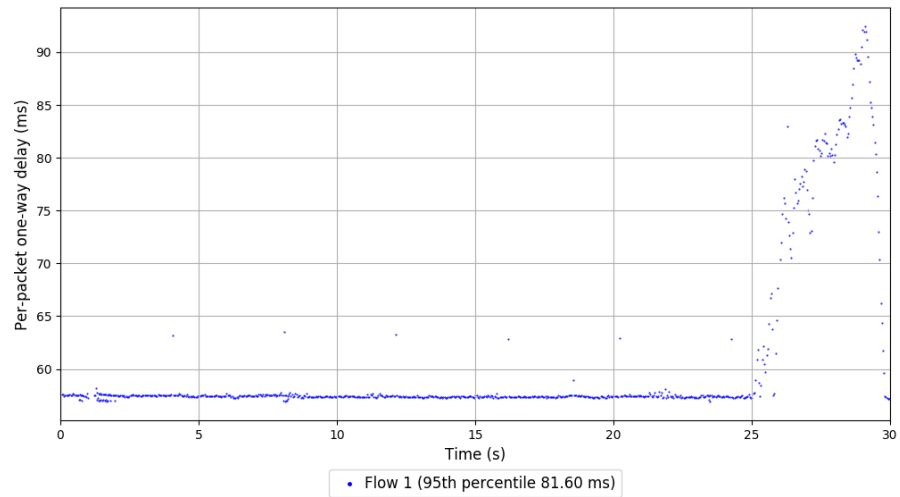
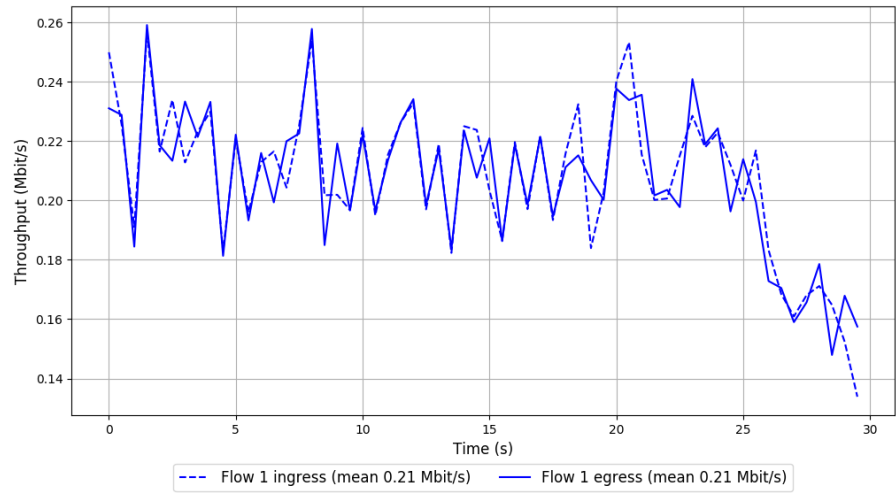


Run 5: Statistics of SCReAM

Start at: 2018-03-20 16:06:10
End at: 2018-03-20 16:06:40
Local clock offset: 7.021 ms
Remote clock offset: -7.116 ms

Below is generated by plot.py at 2018-03-20 18:39:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 81.602 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 81.602 ms
Loss rate: 0.15%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-03-20 16:28:18

End at: 2018-03-20 16:28:48

Local clock offset: 6.774 ms

Remote clock offset: 1.42 ms

Below is generated by plot.py at 2018-03-20 18:39:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 108.156 ms

Loss rate: 0.08%

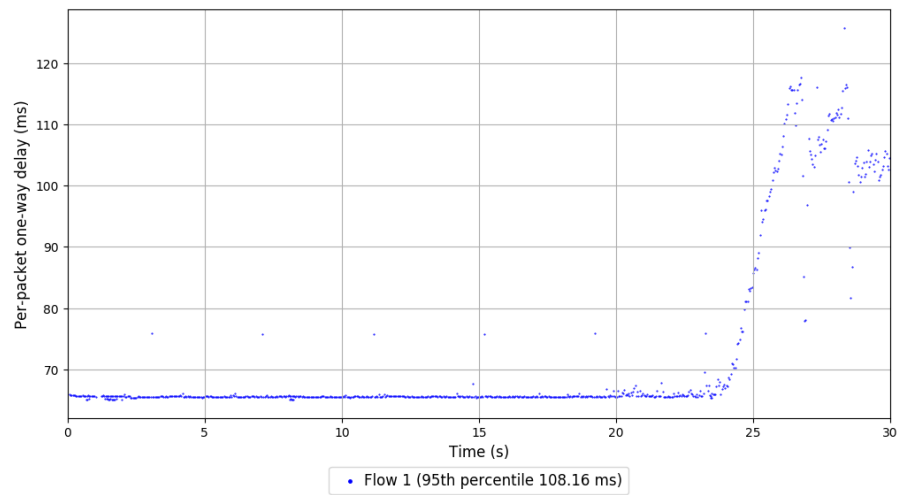
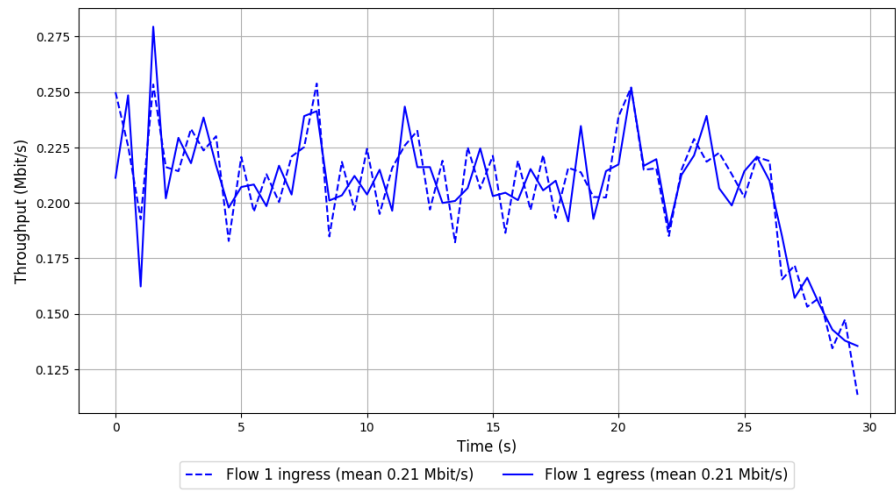
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 108.156 ms

Loss rate: 0.08%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-03-20 16:53:31

End at: 2018-03-20 16:54:01

Local clock offset: 0.314 ms

Remote clock offset: 0.448 ms

Below is generated by plot.py at 2018-03-20 18:39:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 65.544 ms

Loss rate: 0.02%

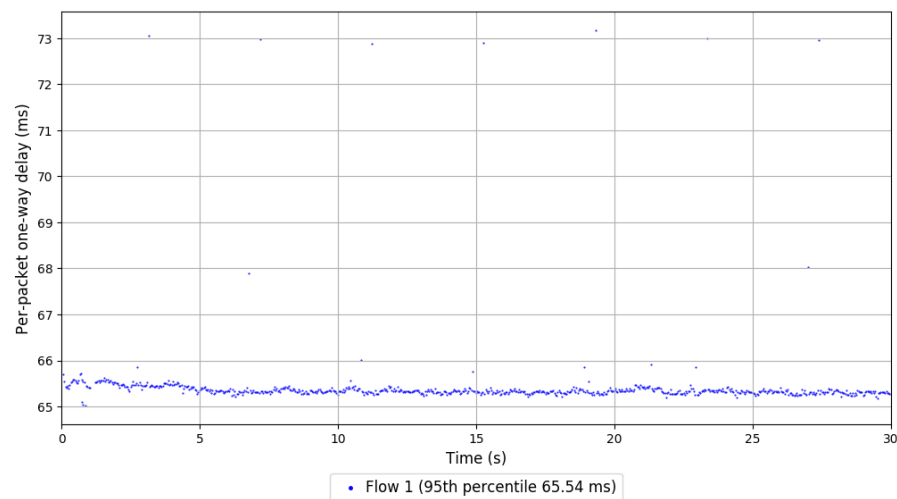
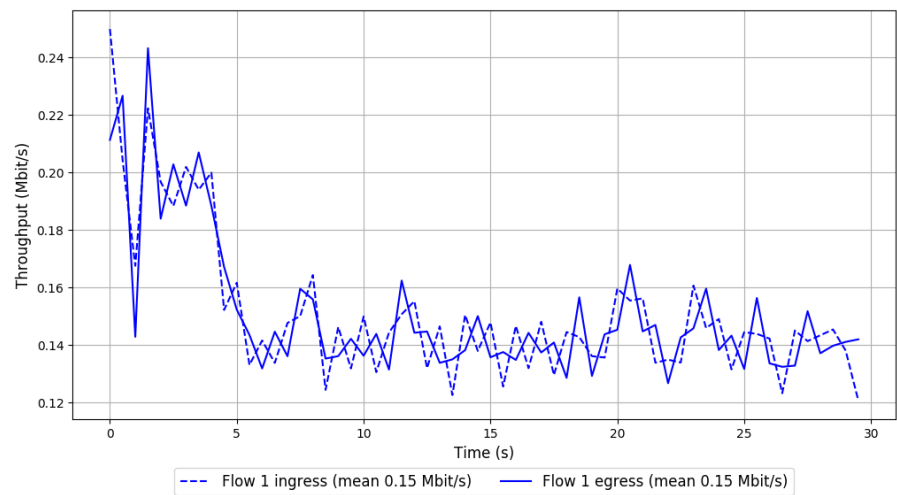
-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 65.544 ms

Loss rate: 0.02%

Run 7: Report of SReAM — Data Link

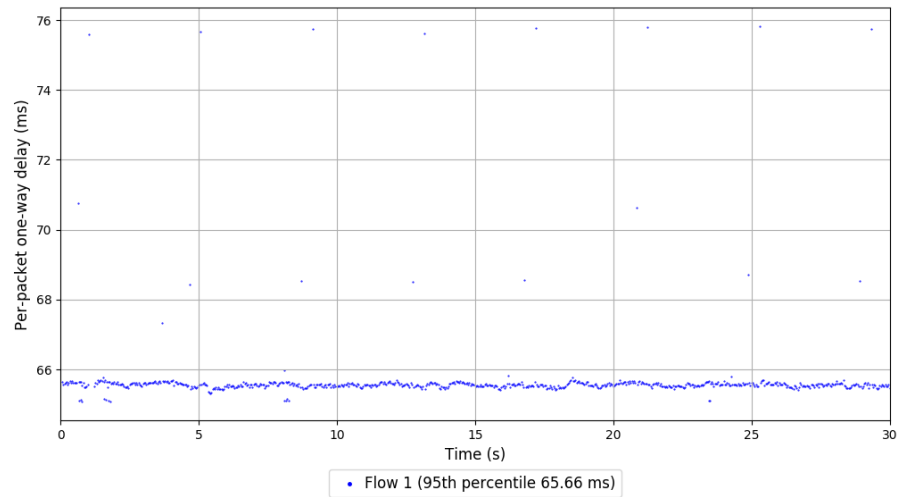
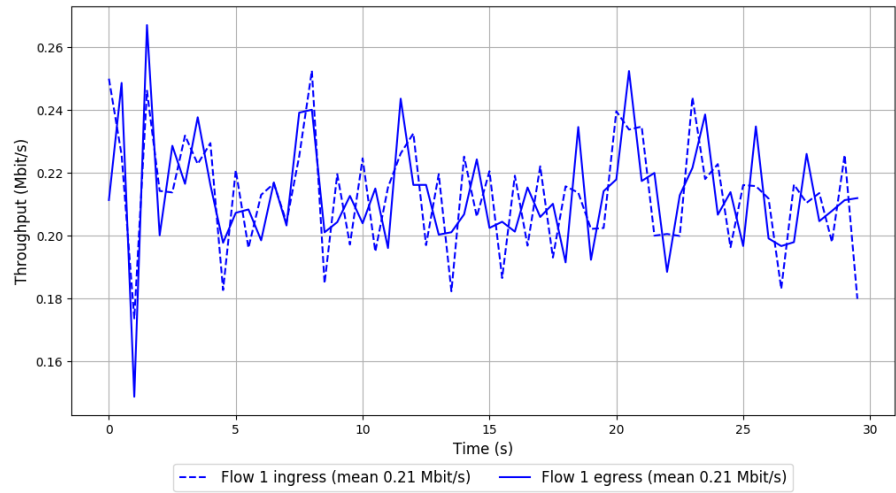


Run 8: Statistics of SCReAM

Start at: 2018-03-20 17:15:30
End at: 2018-03-20 17:16:00
Local clock offset: -0.549 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2018-03-20 18:39:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 65.657 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 65.657 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

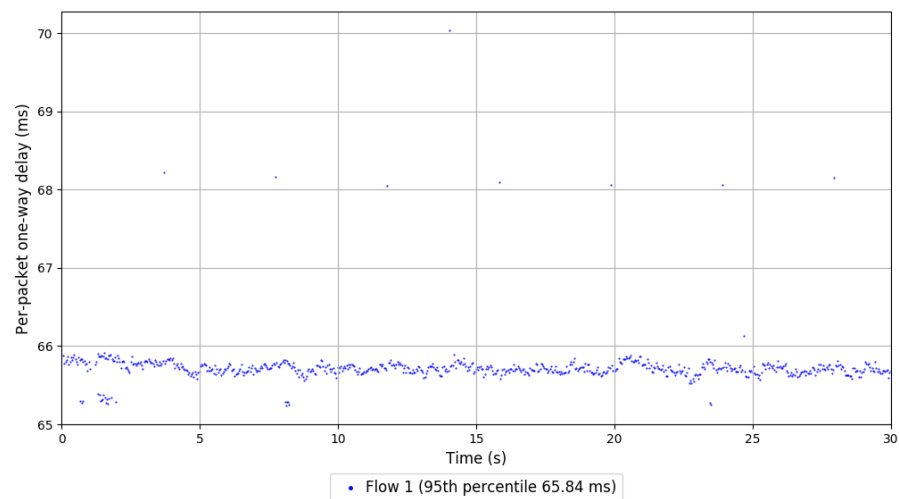
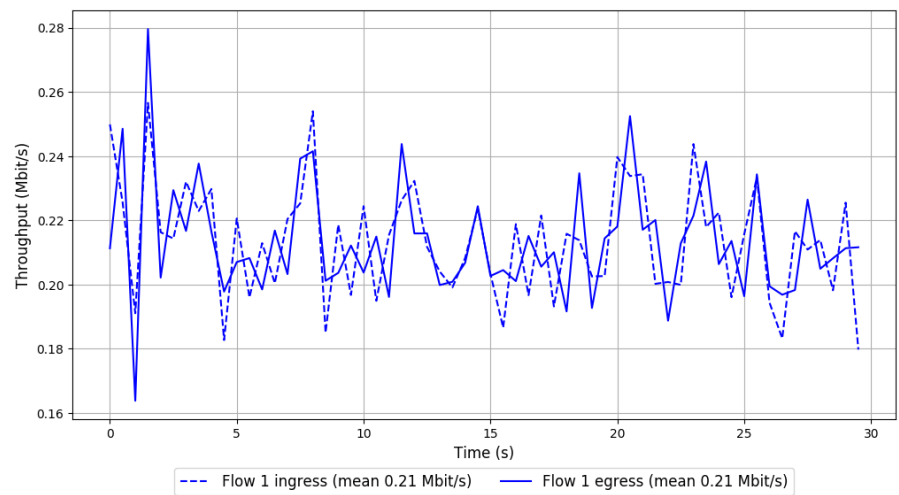


Run 9: Statistics of SCReAM

Start at: 2018-03-20 17:37:15
End at: 2018-03-20 17:37:45
Local clock offset: -1.202 ms
Remote clock offset: -0.627 ms

Below is generated by plot.py at 2018-03-20 18:39:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 65.843 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 65.843 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

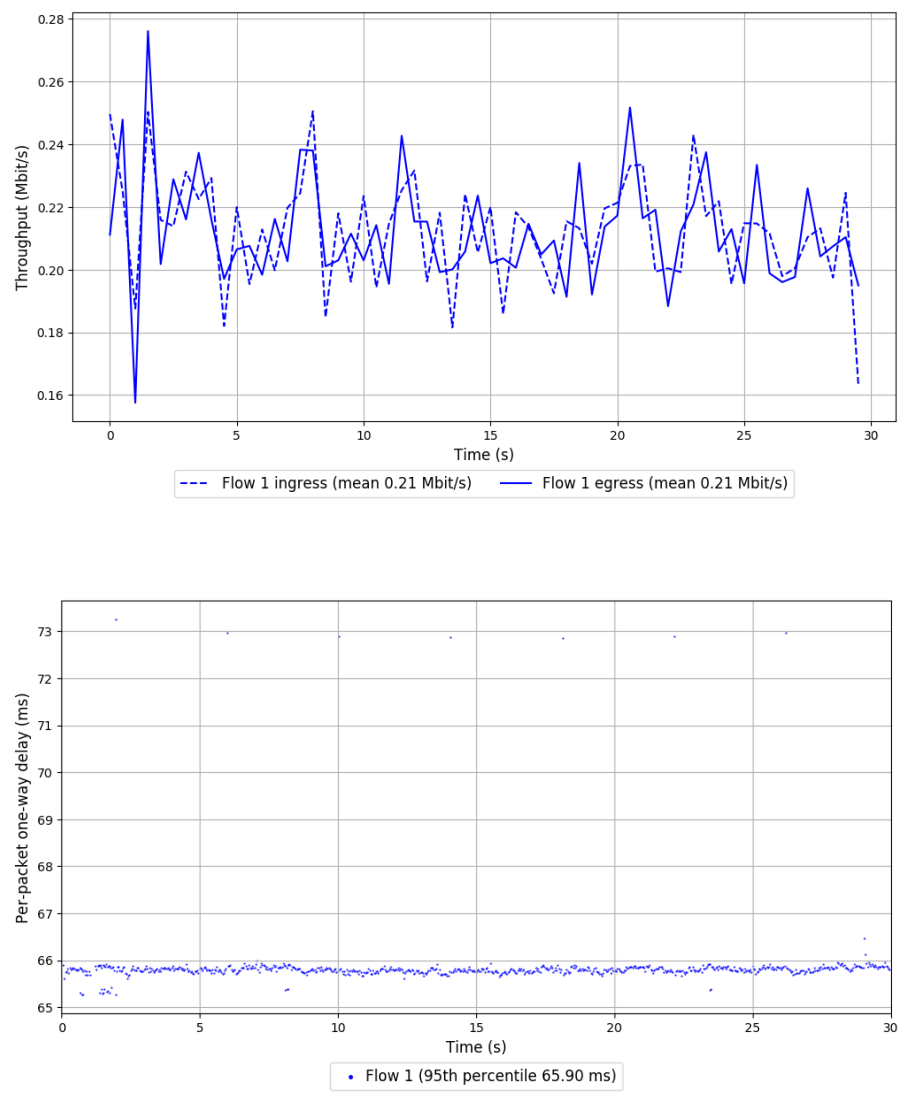


Run 10: Statistics of SReAM

Start at: 2018-03-20 18:01:10
End at: 2018-03-20 18:01:40
Local clock offset: 5.134 ms
Remote clock offset: -1.545 ms

Below is generated by plot.py at 2018-03-20 18:39:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 65.901 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 65.901 ms
Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

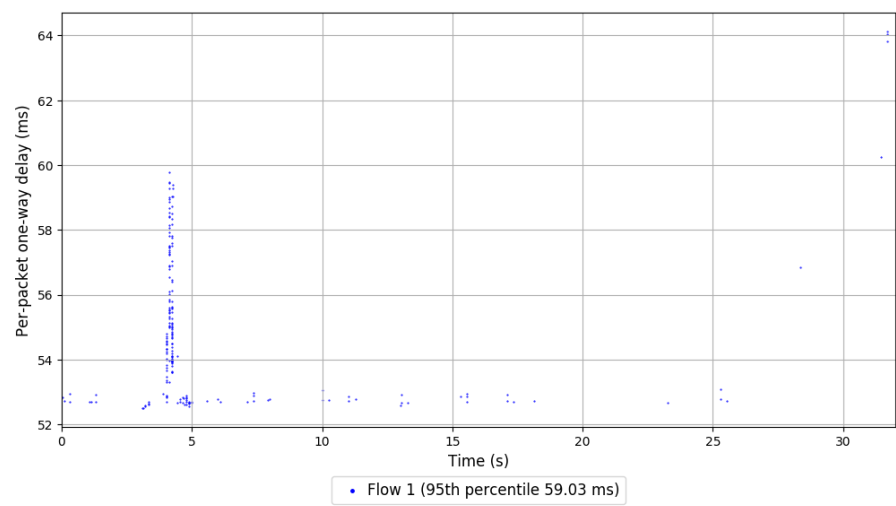
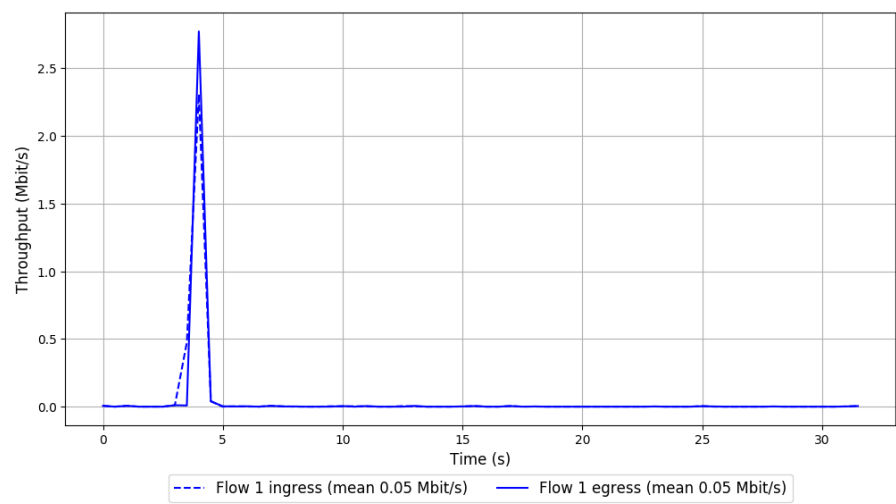


Run 1: Statistics of WebRTC media

Start at: 2018-03-20 14:42:20
End at: 2018-03-20 14:42:50
Local clock offset: 4.536 ms
Remote clock offset: -16.895 ms

Below is generated by plot.py at 2018-03-20 18:39:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 59.030 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 59.030 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

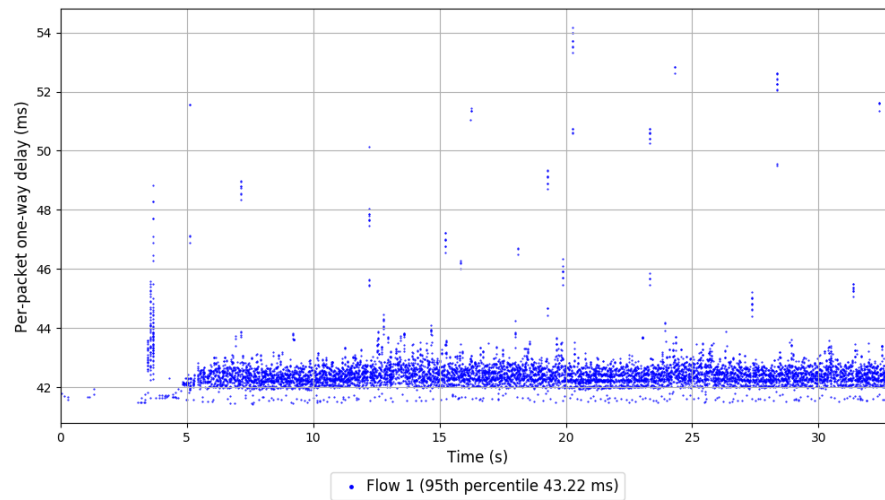
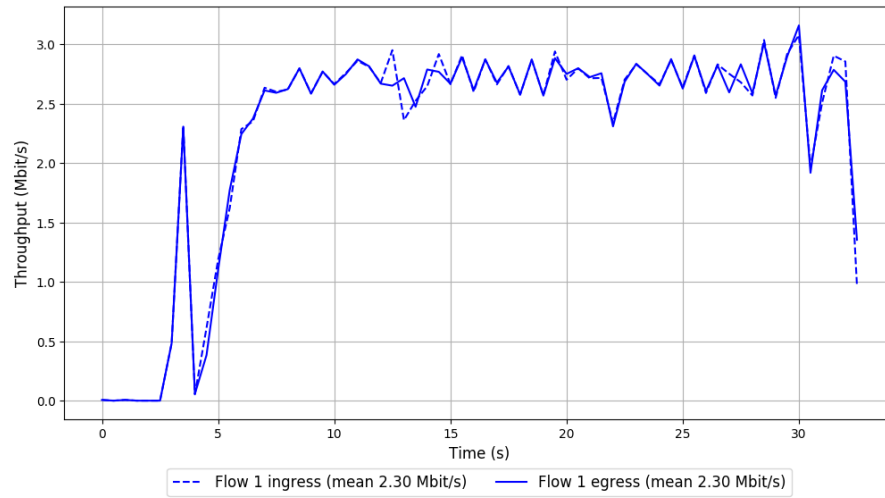


Run 2: Statistics of WebRTC media

Start at: 2018-03-20 15:04:00
End at: 2018-03-20 15:04:30
Local clock offset: 3.99 ms
Remote clock offset: -28.667 ms

Below is generated by plot.py at 2018-03-20 18:39:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 43.215 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 43.215 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

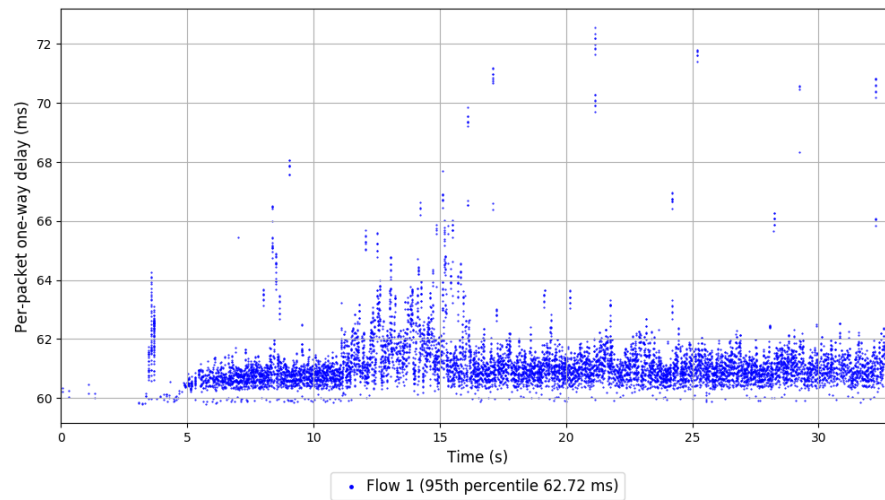
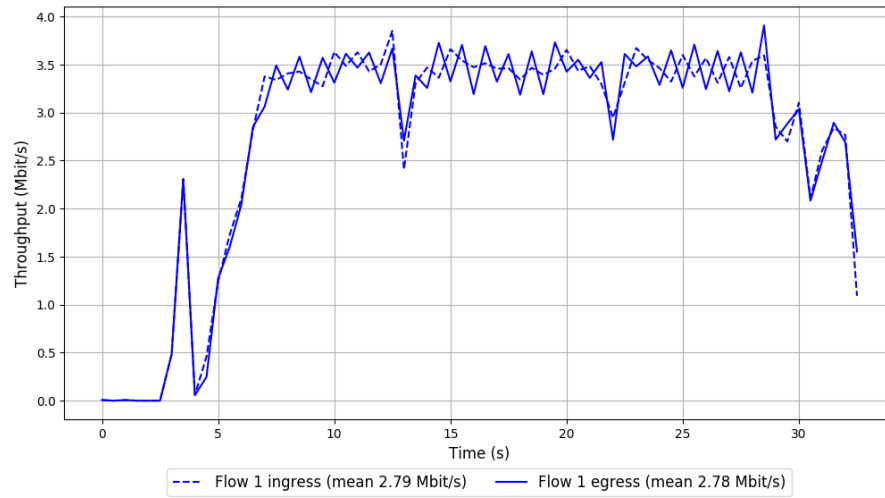


Run 3: Statistics of WebRTC media

Start at: 2018-03-20 15:26:05
End at: 2018-03-20 15:26:35
Local clock offset: 4.433 ms
Remote clock offset: -12.246 ms

Below is generated by plot.py at 2018-03-20 18:39:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.78 Mbit/s
95th percentile per-packet one-way delay: 62.724 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 2.78 Mbit/s
95th percentile per-packet one-way delay: 62.724 ms
Loss rate: 0.10%

Run 3: Report of WebRTC media — Data Link

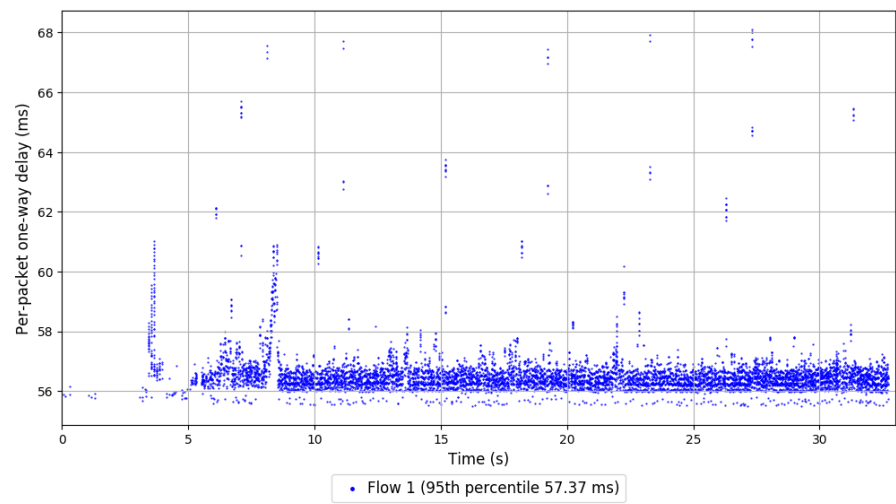
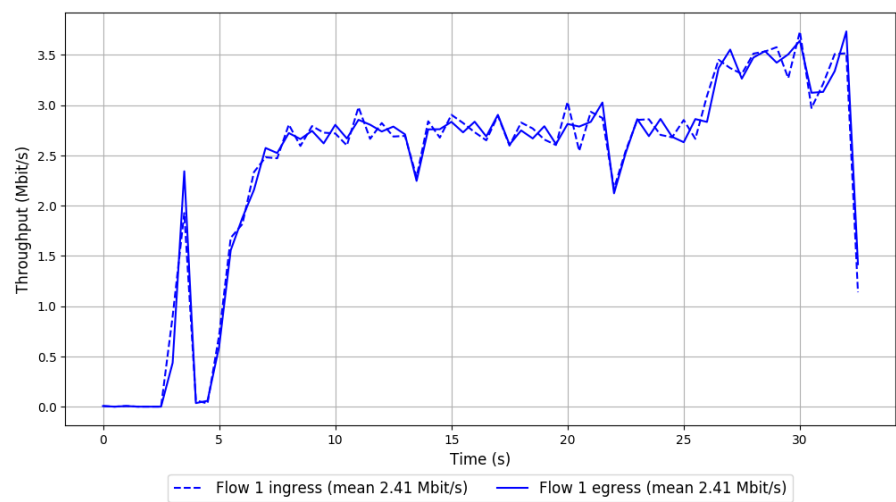


Run 4: Statistics of WebRTC media

Start at: 2018-03-20 15:49:12
End at: 2018-03-20 15:49:42
Local clock offset: 7.111 ms
Remote clock offset: -11.143 ms

Below is generated by plot.py at 2018-03-20 18:39:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 57.371 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 57.371 ms
Loss rate: 0.10%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-03-20 16:11:15

End at: 2018-03-20 16:11:45

Local clock offset: 6.784 ms

Remote clock offset: 0.08 ms

Below is generated by plot.py at 2018-03-20 18:39:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 129.492 ms

Loss rate: 0.73%

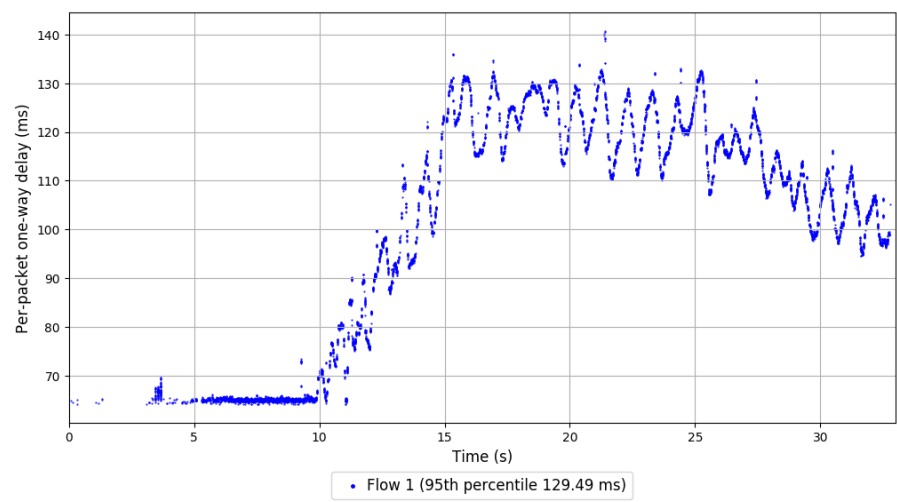
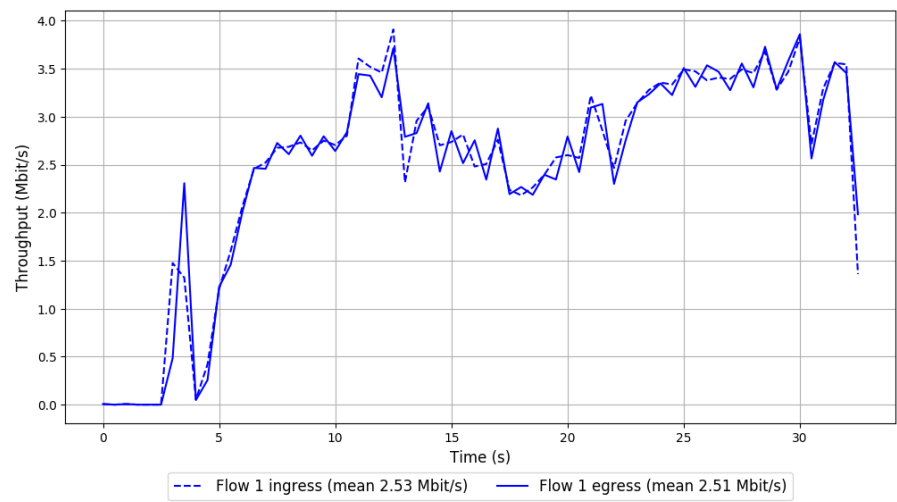
-- Flow 1:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 129.492 ms

Loss rate: 0.73%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-03-20 16:34:29

End at: 2018-03-20 16:34:59

Local clock offset: 5.946 ms

Remote clock offset: 1.774 ms

Below is generated by plot.py at 2018-03-20 18:39:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 65.667 ms

Loss rate: 0.00%

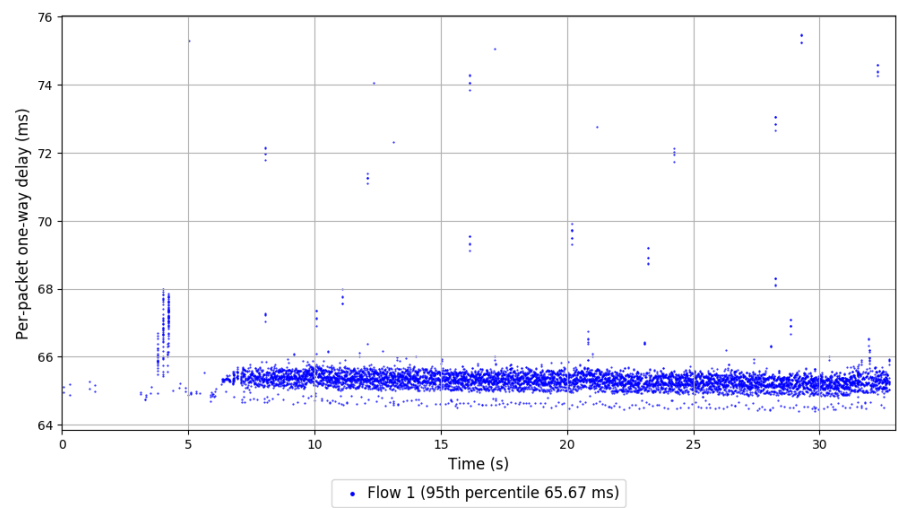
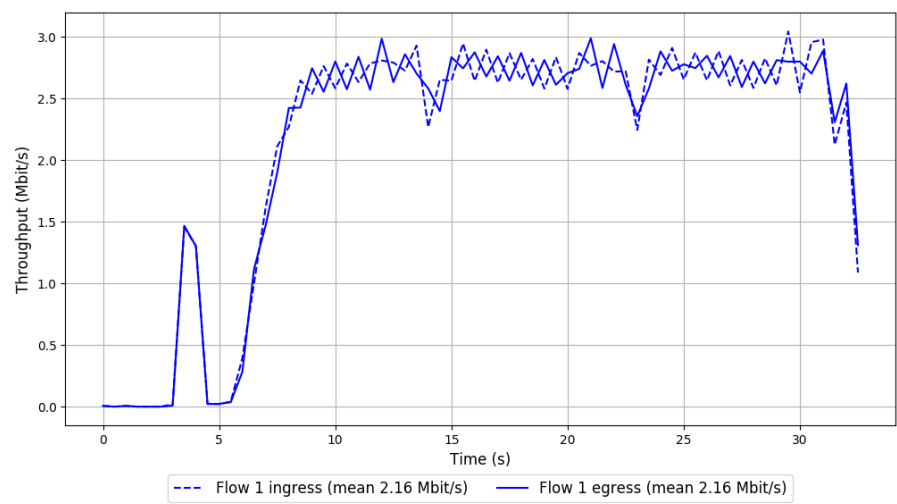
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 65.667 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-03-20 16:58:17

End at: 2018-03-20 16:58:47

Local clock offset: -0.905 ms

Remote clock offset: 0.154 ms

Below is generated by plot.py at 2018-03-20 18:39:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 66.680 ms

Loss rate: 0.00%

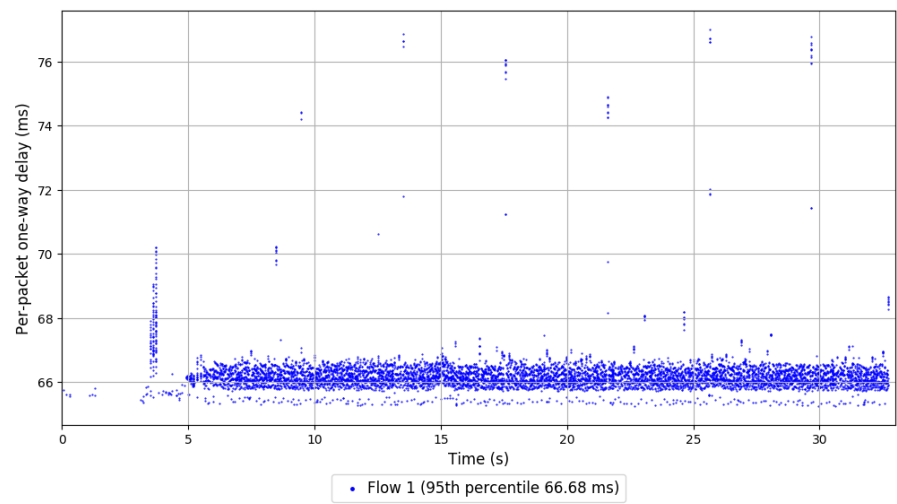
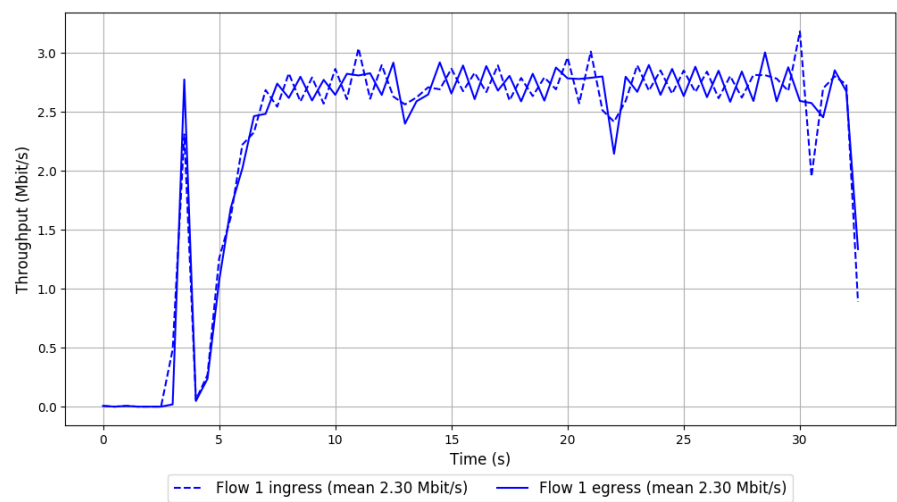
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 66.680 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

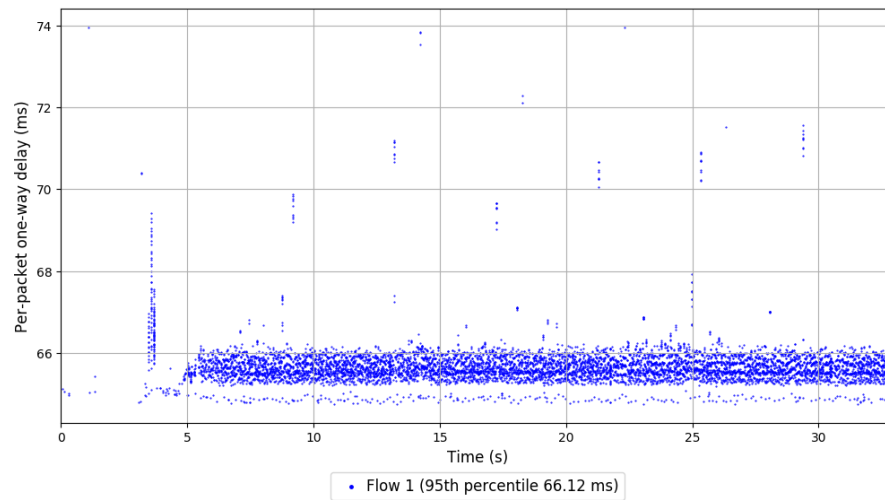
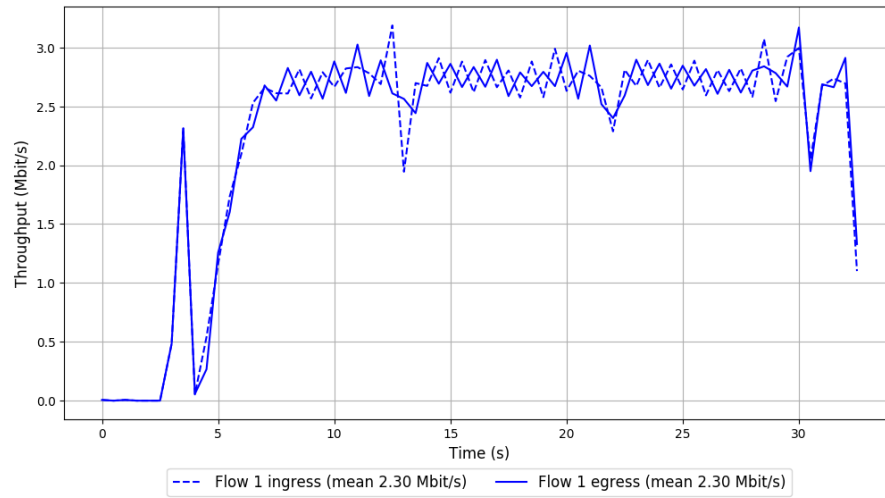


Run 8: Statistics of WebRTC media

Start at: 2018-03-20 17:20:16
End at: 2018-03-20 17:20:46
Local clock offset: -0.674 ms
Remote clock offset: -0.303 ms

Below is generated by plot.py at 2018-03-20 18:39:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 66.117 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 66.117 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

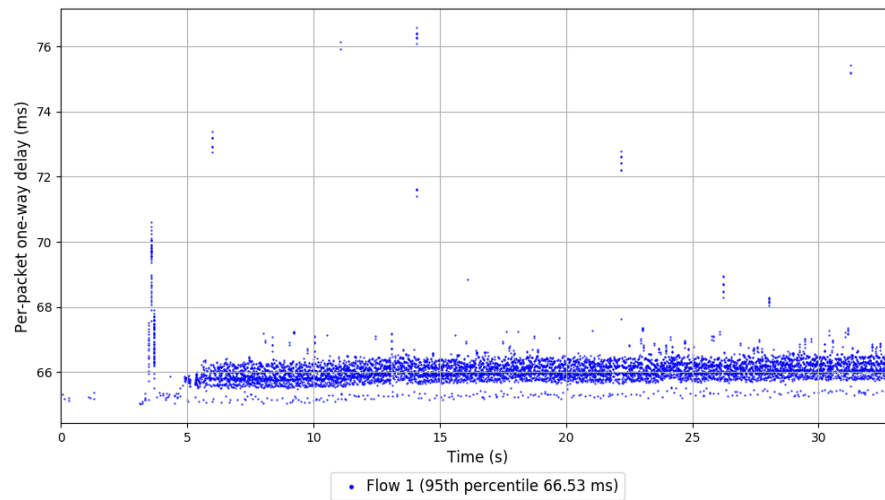
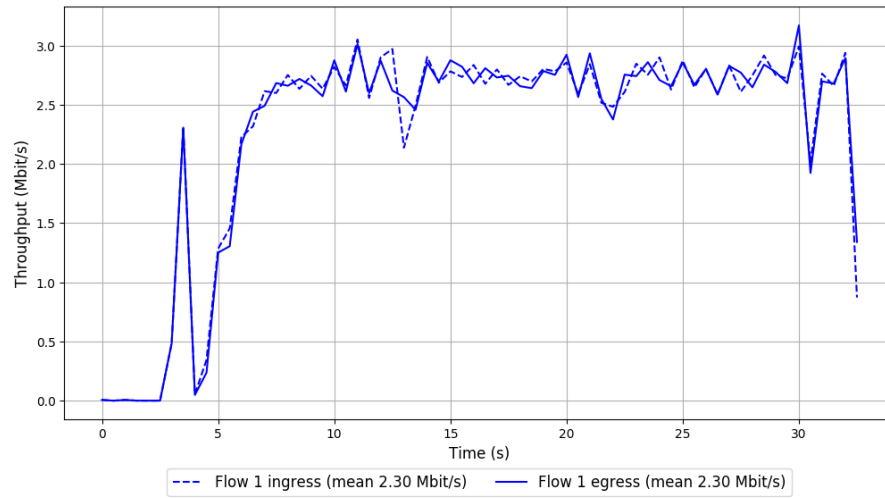


Run 9: Statistics of WebRTC media

Start at: 2018-03-20 17:42:02
End at: 2018-03-20 17:42:32
Local clock offset: -0.645 ms
Remote clock offset: -0.685 ms

Below is generated by plot.py at 2018-03-20 18:39:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 66.526 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 66.526 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-03-20 18:06:09

End at: 2018-03-20 18:06:39

Local clock offset: 5.537 ms

Remote clock offset: -1.777 ms

Below is generated by plot.py at 2018-03-20 18:39:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 66.818 ms

Loss rate: 0.00%

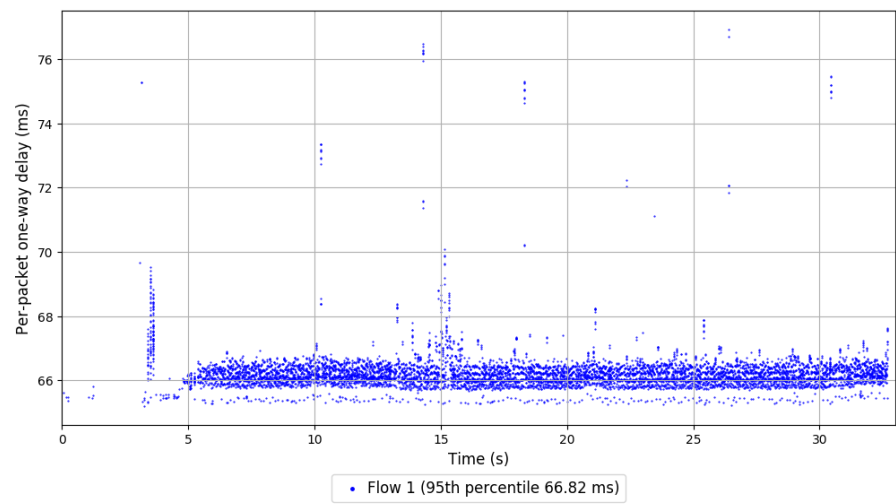
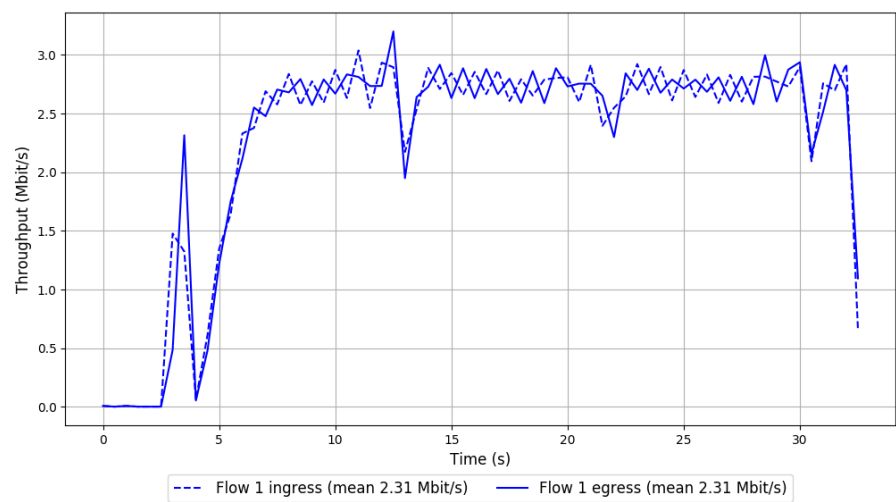
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 66.818 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

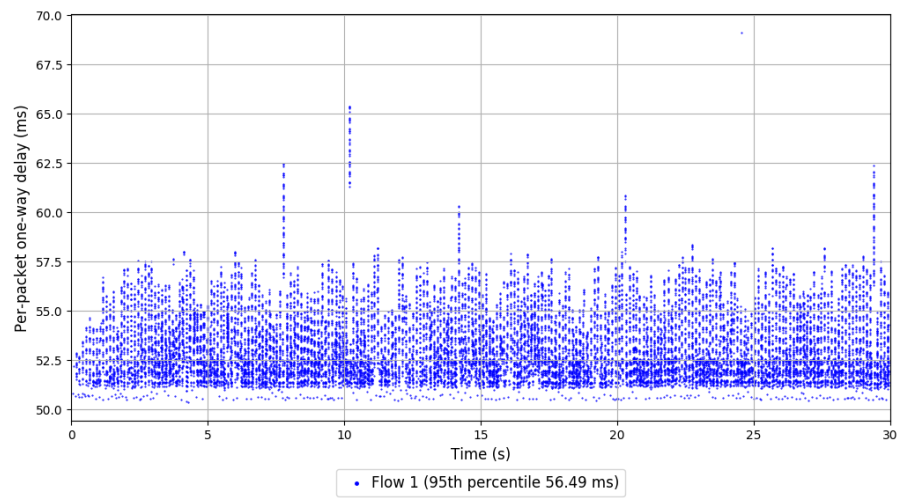
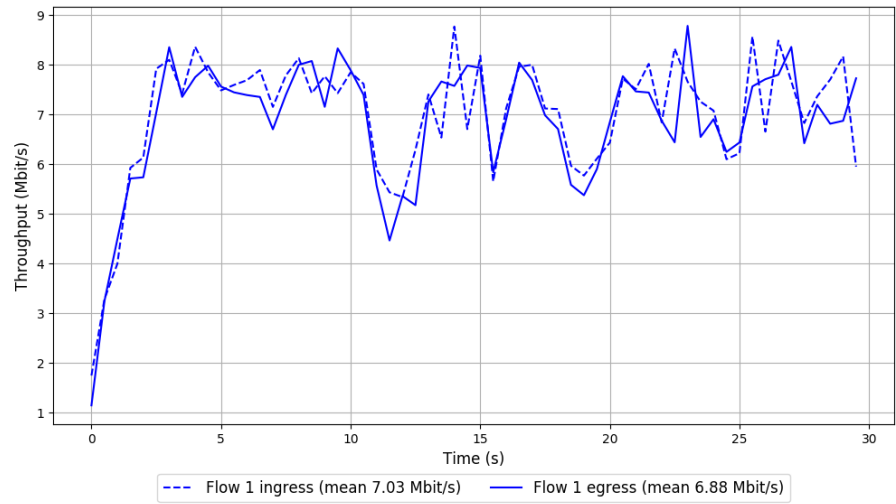


Run 1: Statistics of Sprout

Start at: 2018-03-20 14:32:47
End at: 2018-03-20 14:33:17
Local clock offset: 4.954 ms
Remote clock offset: -19.299 ms

Below is generated by plot.py at 2018-03-20 18:39:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.88 Mbit/s
95th percentile per-packet one-way delay: 56.486 ms
Loss rate: 2.08%
-- Flow 1:
Average throughput: 6.88 Mbit/s
95th percentile per-packet one-way delay: 56.486 ms
Loss rate: 2.08%

Run 1: Report of Sprout — Data Link

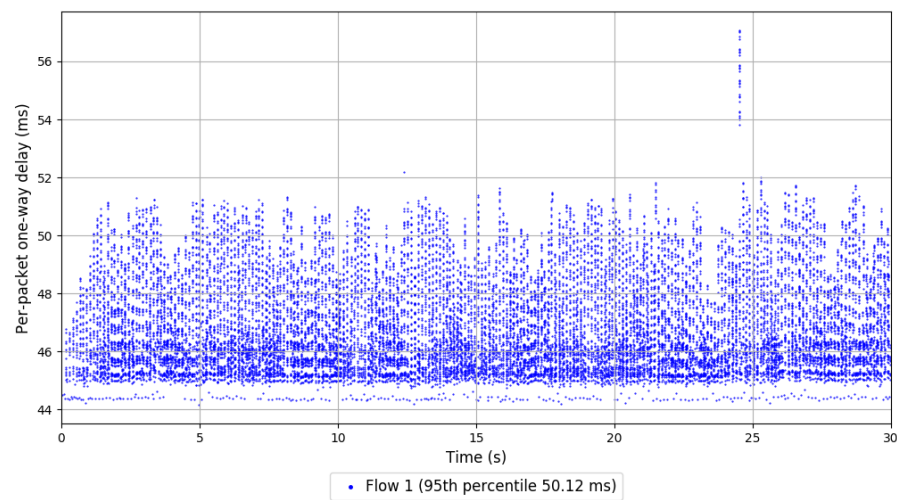
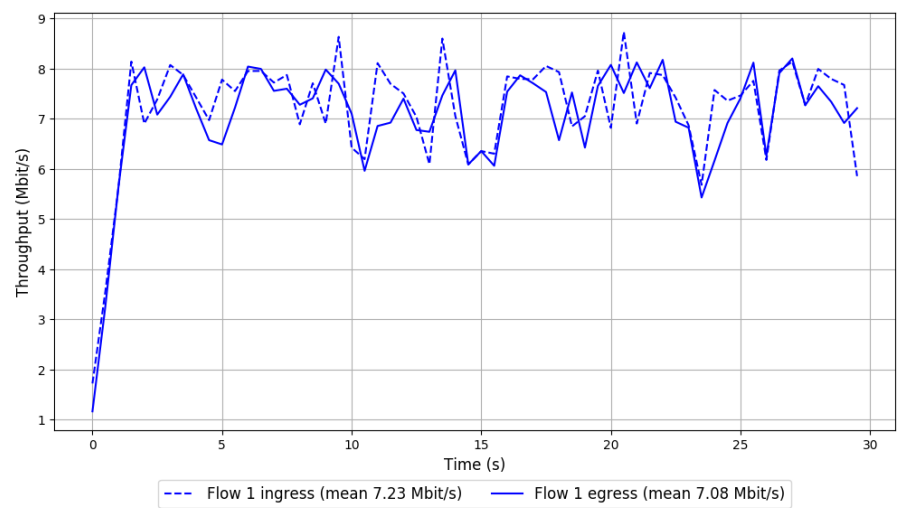


Run 2: Statistics of Sprout

Start at: 2018-03-20 14:55:43
End at: 2018-03-20 14:56:13
Local clock offset: 3.9 ms
Remote clock offset: -25.263 ms

Below is generated by plot.py at 2018-03-20 18:39:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.08 Mbit/s
95th percentile per-packet one-way delay: 50.115 ms
Loss rate: 2.04%
-- Flow 1:
Average throughput: 7.08 Mbit/s
95th percentile per-packet one-way delay: 50.115 ms
Loss rate: 2.04%

Run 2: Report of Sprout — Data Link

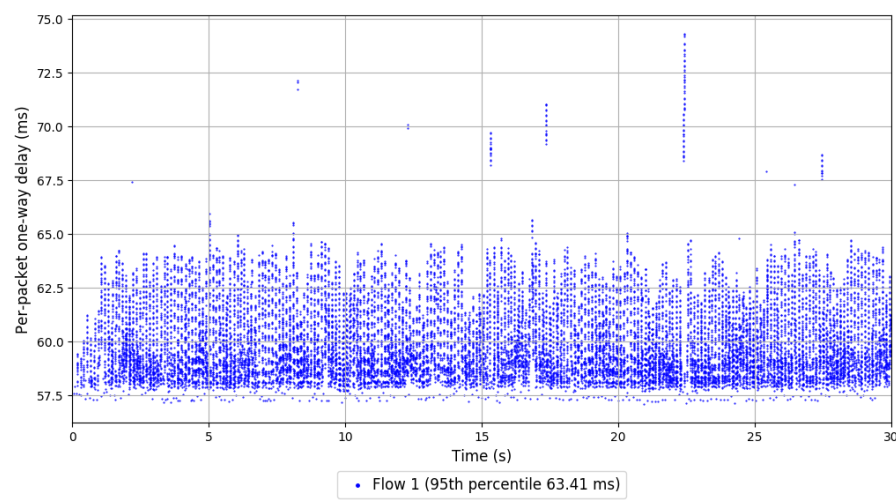
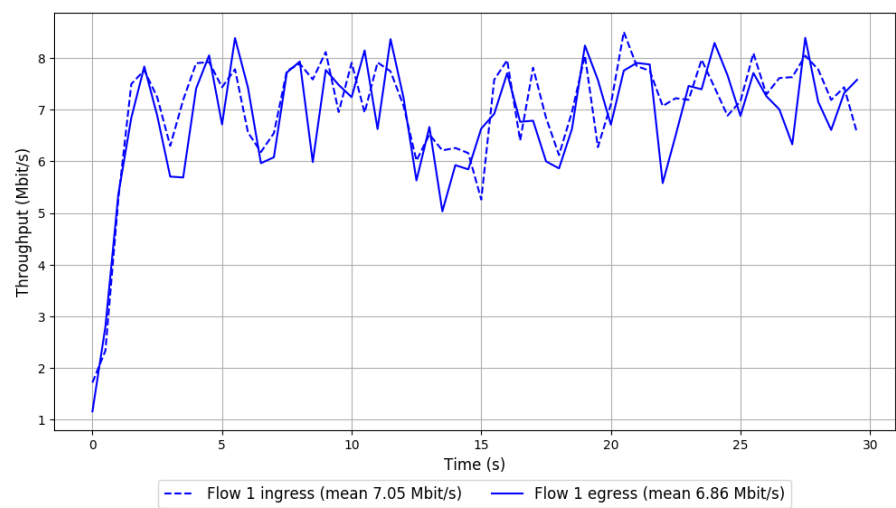


Run 3: Statistics of Sprout

Start at: 2018-03-20 15:17:38
End at: 2018-03-20 15:18:08
Local clock offset: 4.141 ms
Remote clock offset: -14.484 ms

Below is generated by plot.py at 2018-03-20 18:39:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.86 Mbit/s
95th percentile per-packet one-way delay: 63.409 ms
Loss rate: 2.68%
-- Flow 1:
Average throughput: 6.86 Mbit/s
95th percentile per-packet one-way delay: 63.409 ms
Loss rate: 2.68%

Run 3: Report of Sprout — Data Link

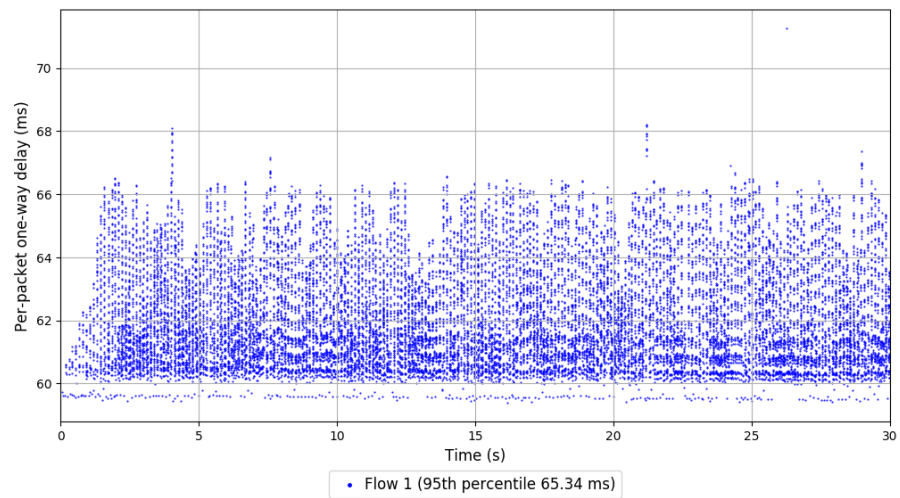
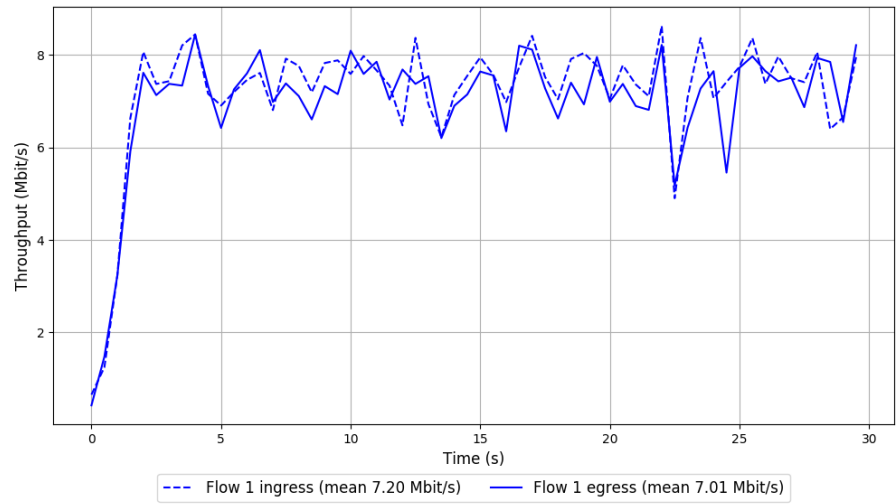


Run 4: Statistics of Sprout

Start at: 2018-03-20 15:39:27
End at: 2018-03-20 15:39:57
Local clock offset: 6.577 ms
Remote clock offset: -9.842 ms

Below is generated by plot.py at 2018-03-20 18:39:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.01 Mbit/s
95th percentile per-packet one-way delay: 65.342 ms
Loss rate: 2.72%
-- Flow 1:
Average throughput: 7.01 Mbit/s
95th percentile per-packet one-way delay: 65.342 ms
Loss rate: 2.72%

Run 4: Report of Sprout — Data Link

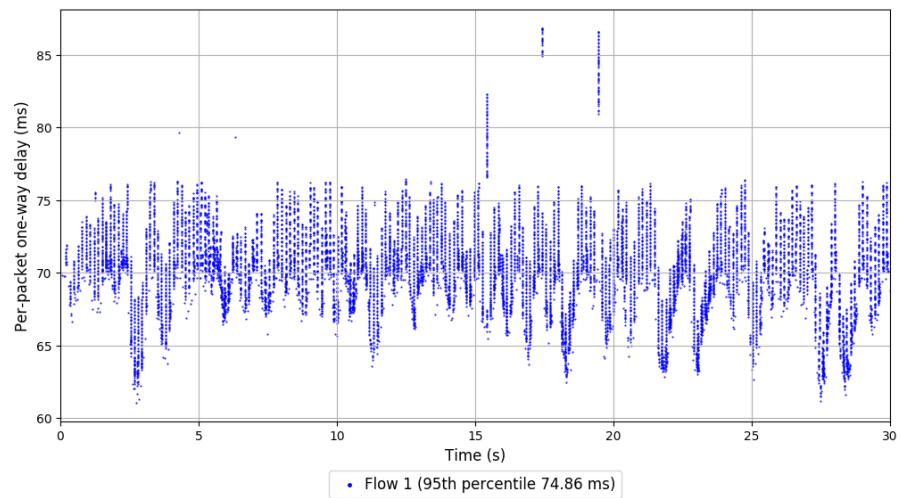
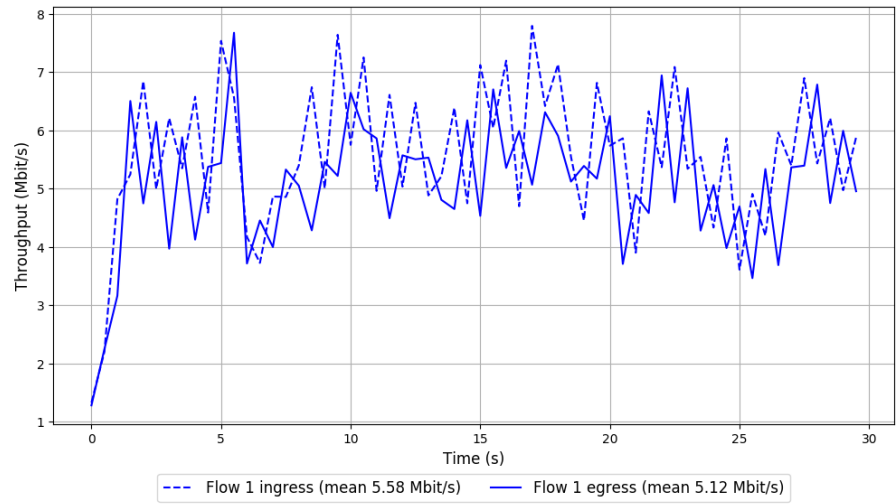


Run 5: Statistics of Sprout

Start at: 2018-03-20 16:02:41
End at: 2018-03-20 16:03:11
Local clock offset: 7.332 ms
Remote clock offset: -10.172 ms

Below is generated by plot.py at 2018-03-20 18:39:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 5.12 Mbit/s
95th percentile per-packet one-way delay: 74.865 ms
Loss rate: 8.25%
-- Flow 1:
Average throughput: 5.12 Mbit/s
95th percentile per-packet one-way delay: 74.865 ms
Loss rate: 8.25%

Run 5: Report of Sprout — Data Link

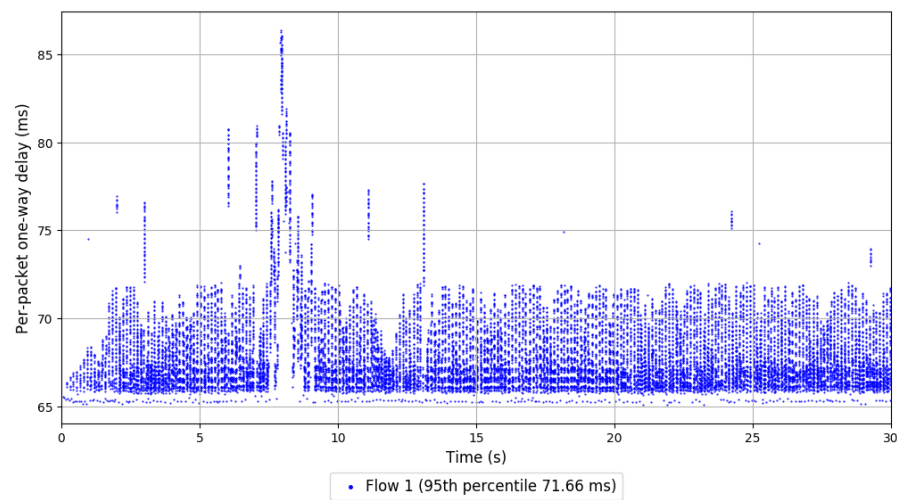
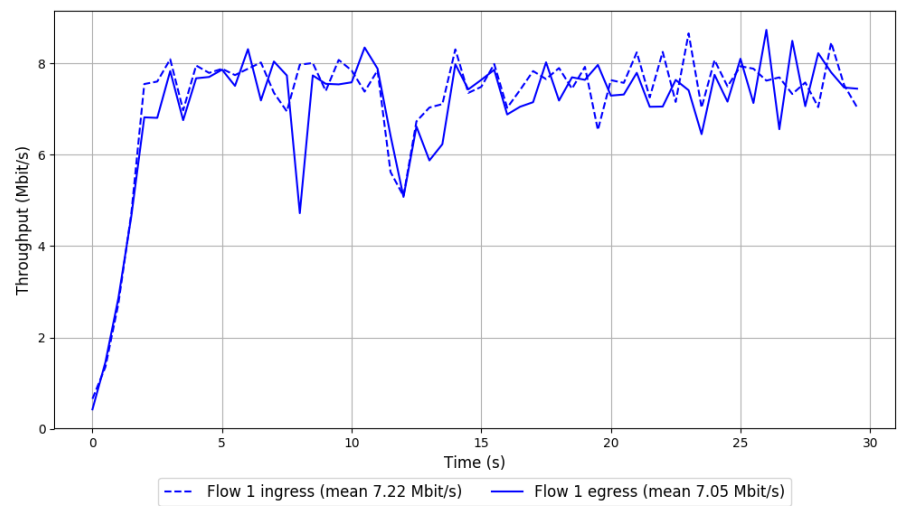


Run 6: Statistics of Sprout

Start at: 2018-03-20 16:24:46
End at: 2018-03-20 16:25:16
Local clock offset: 3.712 ms
Remote clock offset: -1.151 ms

Below is generated by plot.py at 2018-03-20 18:39:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.05 Mbit/s
95th percentile per-packet one-way delay: 71.658 ms
Loss rate: 2.33%
-- Flow 1:
Average throughput: 7.05 Mbit/s
95th percentile per-packet one-way delay: 71.658 ms
Loss rate: 2.33%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-03-20 16:49:59

End at: 2018-03-20 16:50:29

Local clock offset: 0.94 ms

Remote clock offset: 0.811 ms

Below is generated by plot.py at 2018-03-20 18:39:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.84 Mbit/s

95th percentile per-packet one-way delay: 70.435 ms

Loss rate: 2.84%

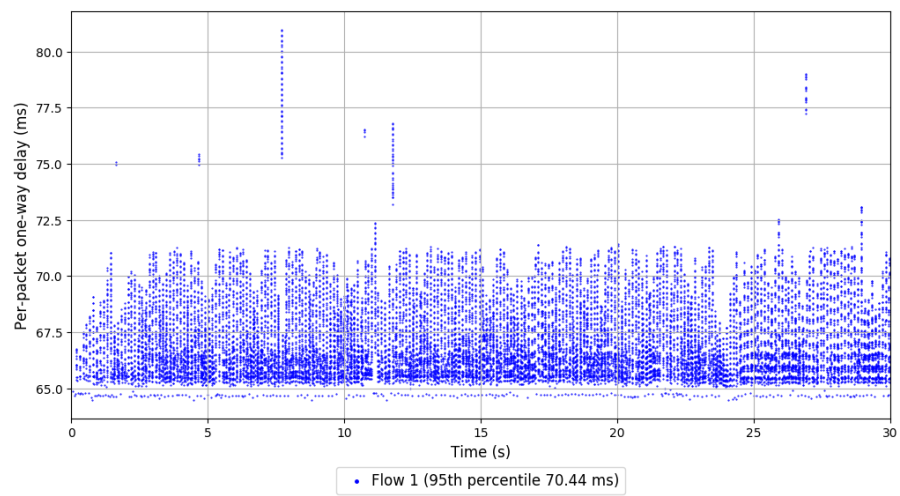
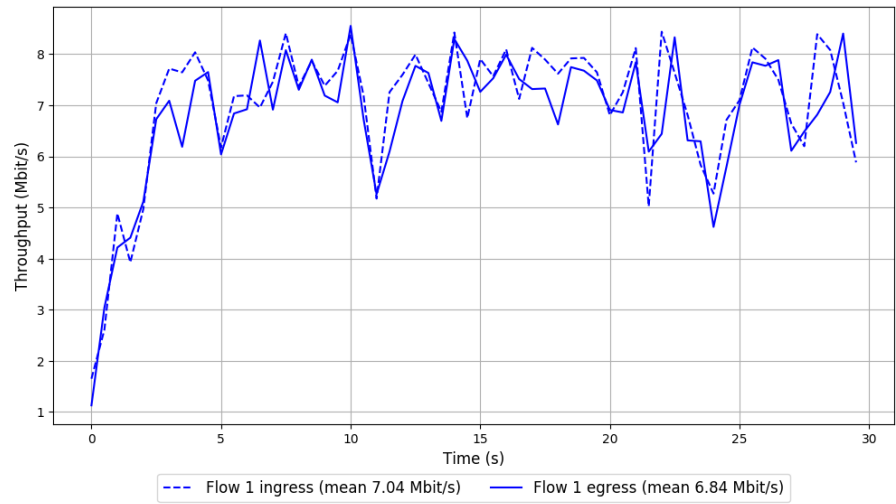
-- Flow 1:

Average throughput: 6.84 Mbit/s

95th percentile per-packet one-way delay: 70.435 ms

Loss rate: 2.84%

Run 7: Report of Sprout — Data Link

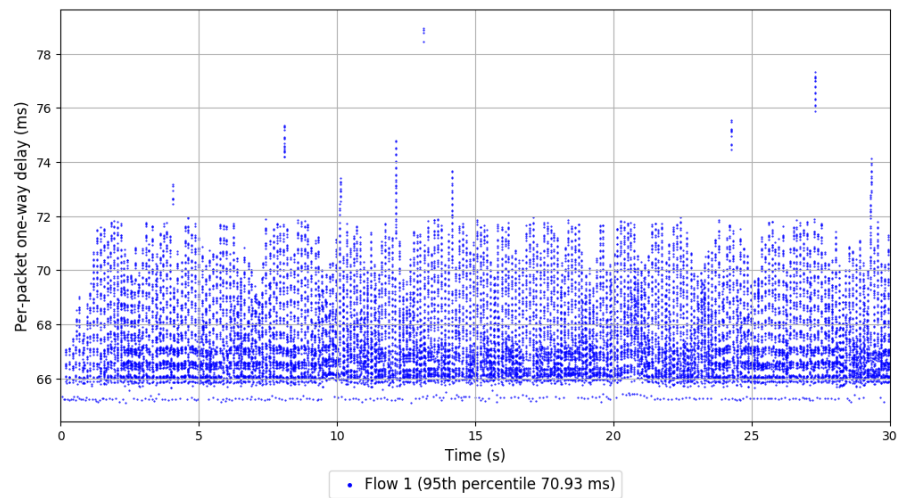
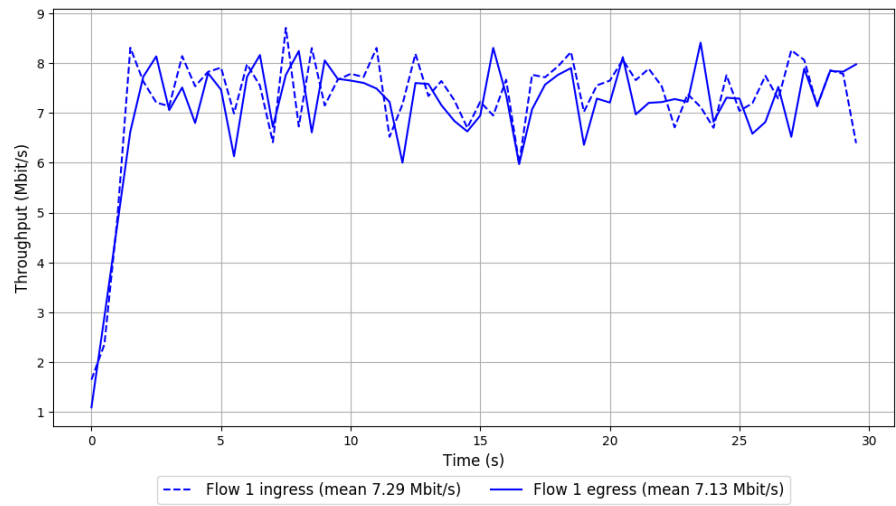


Run 8: Statistics of Sprout

Start at: 2018-03-20 17:11:57
End at: 2018-03-20 17:12:27
Local clock offset: -0.806 ms
Remote clock offset: -0.018 ms

Below is generated by plot.py at 2018-03-20 18:39:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.13 Mbit/s
95th percentile per-packet one-way delay: 70.927 ms
Loss rate: 2.17%
-- Flow 1:
Average throughput: 7.13 Mbit/s
95th percentile per-packet one-way delay: 70.927 ms
Loss rate: 2.17%

Run 8: Report of Sprout — Data Link

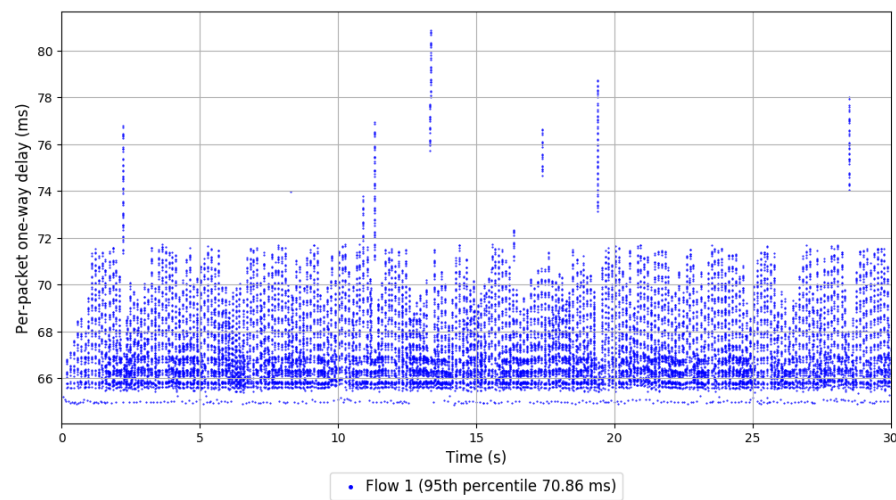
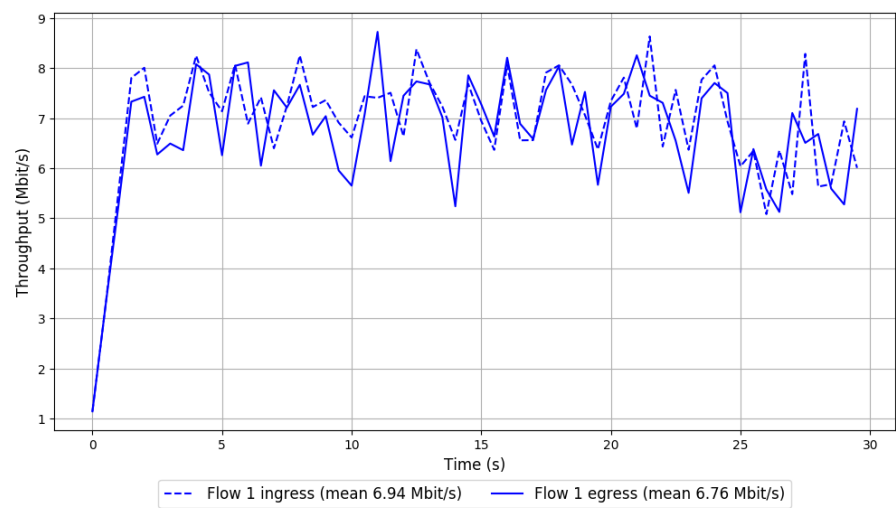


Run 9: Statistics of Sprout

Start at: 2018-03-20 17:33:41
End at: 2018-03-20 17:34:11
Local clock offset: -0.903 ms
Remote clock offset: -0.574 ms

Below is generated by plot.py at 2018-03-20 18:39:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.76 Mbit/s
95th percentile per-packet one-way delay: 70.858 ms
Loss rate: 2.66%
-- Flow 1:
Average throughput: 6.76 Mbit/s
95th percentile per-packet one-way delay: 70.858 ms
Loss rate: 2.66%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-03-20 17:57:33

End at: 2018-03-20 17:58:03

Local clock offset: 3.988 ms

Remote clock offset: -1.33 ms

Below is generated by plot.py at 2018-03-20 18:39:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.01 Mbit/s

95th percentile per-packet one-way delay: 71.470 ms

Loss rate: 2.14%

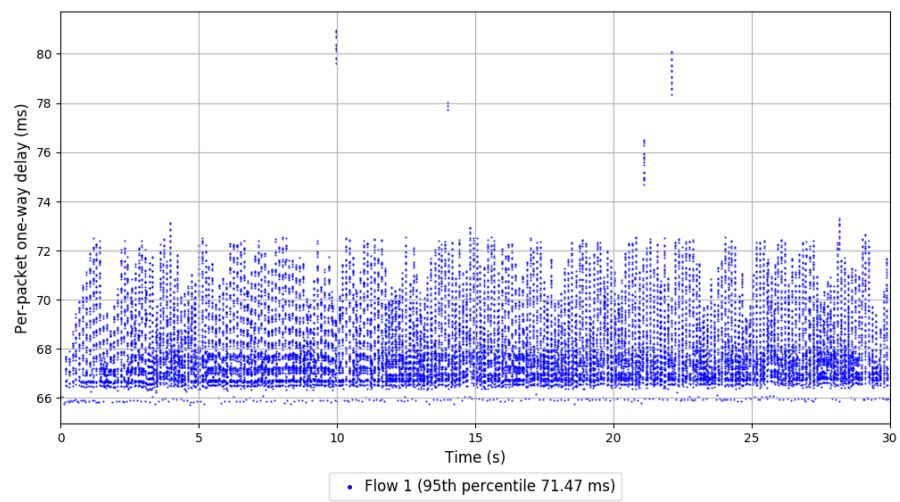
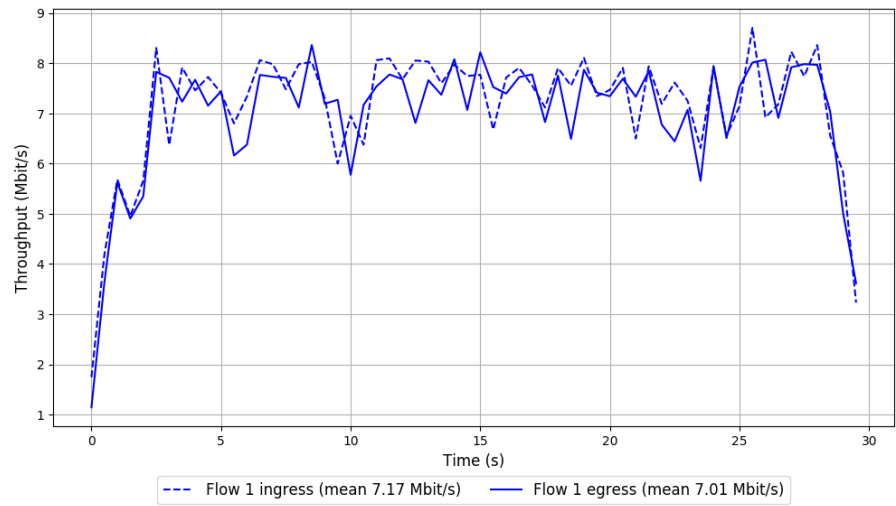
-- Flow 1:

Average throughput: 7.01 Mbit/s

95th percentile per-packet one-way delay: 71.470 ms

Loss rate: 2.14%

Run 10: Report of Sprout — Data Link

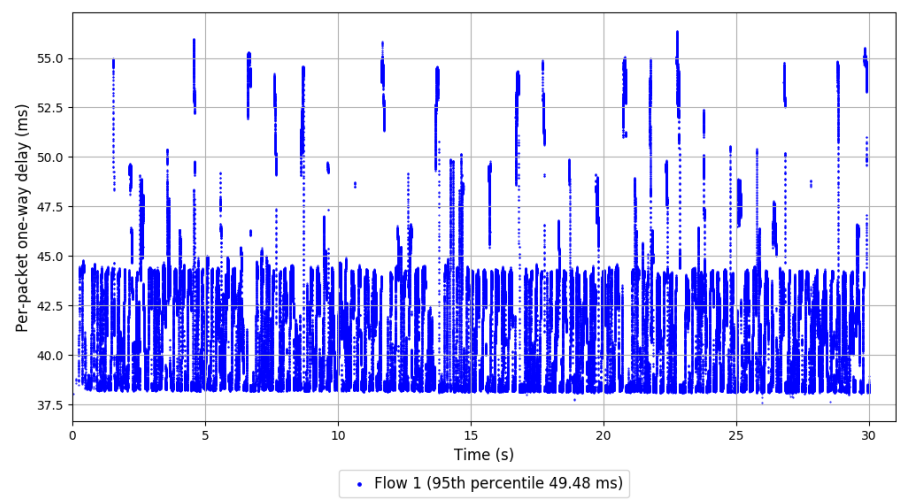
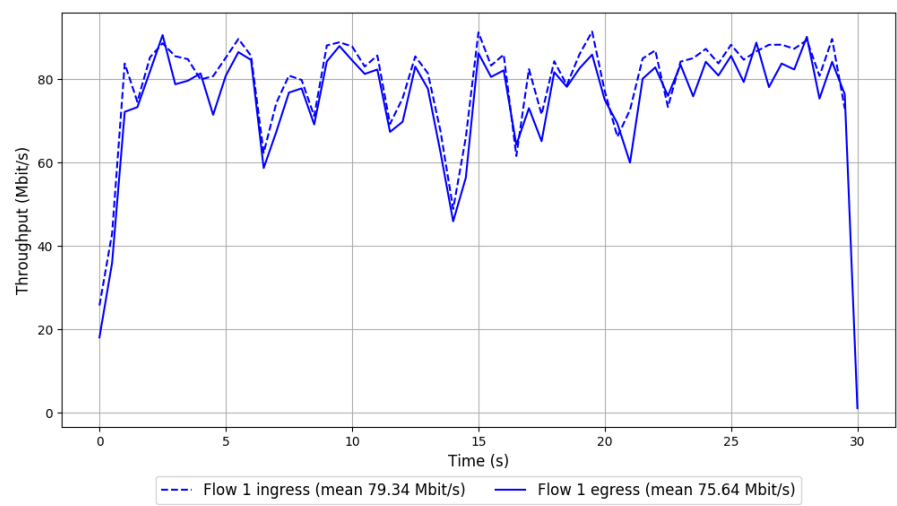


Run 1: Statistics of TaoVA-100x

Start at: 2018-03-20 14:25:28
End at: 2018-03-20 14:25:58
Local clock offset: 6.045 ms
Remote clock offset: -32.377 ms

Below is generated by plot.py at 2018-03-20 18:41:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 75.64 Mbit/s
95th percentile per-packet one-way delay: 49.480 ms
Loss rate: 4.66%
-- Flow 1:
Average throughput: 75.64 Mbit/s
95th percentile per-packet one-way delay: 49.480 ms
Loss rate: 4.66%

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

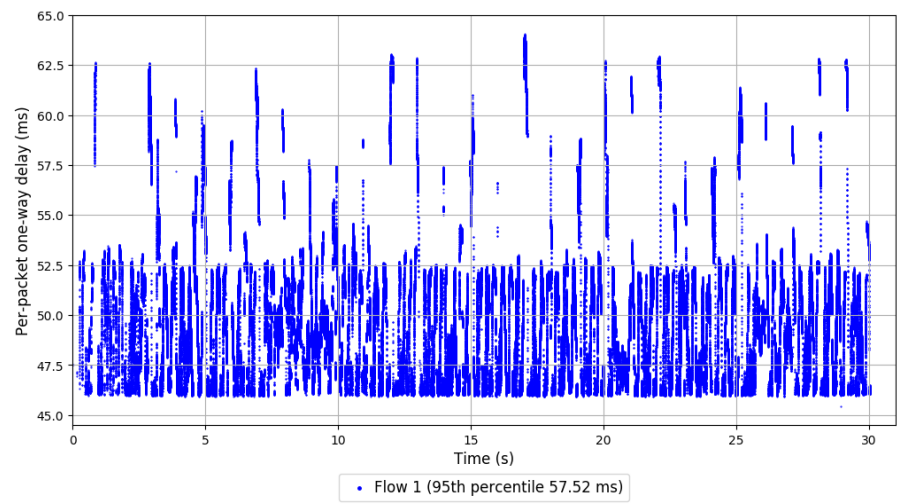
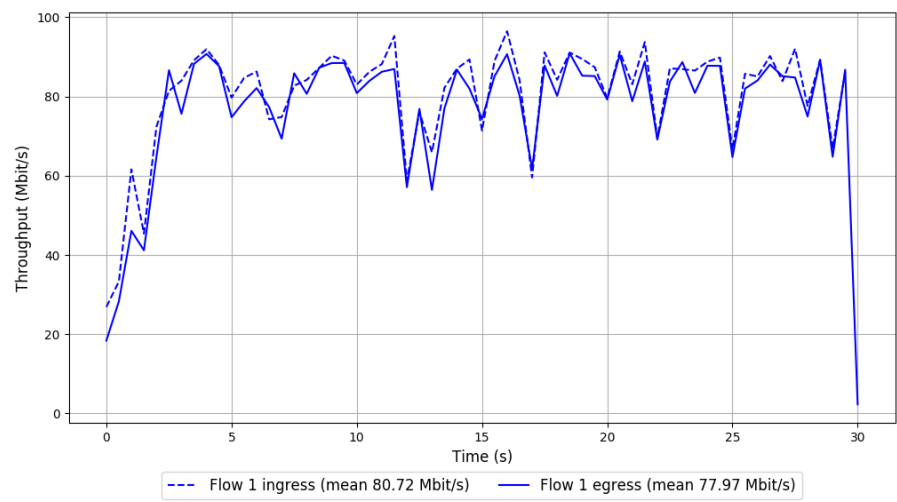


Run 2: Statistics of TaoVA-100x

Start at: 2018-03-20 14:48:21
End at: 2018-03-20 14:48:51
Local clock offset: 4.466 ms
Remote clock offset: -24.009 ms

Below is generated by plot.py at 2018-03-20 18:41:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.97 Mbit/s
95th percentile per-packet one-way delay: 57.523 ms
Loss rate: 3.41%
-- Flow 1:
Average throughput: 77.97 Mbit/s
95th percentile per-packet one-way delay: 57.523 ms
Loss rate: 3.41%

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

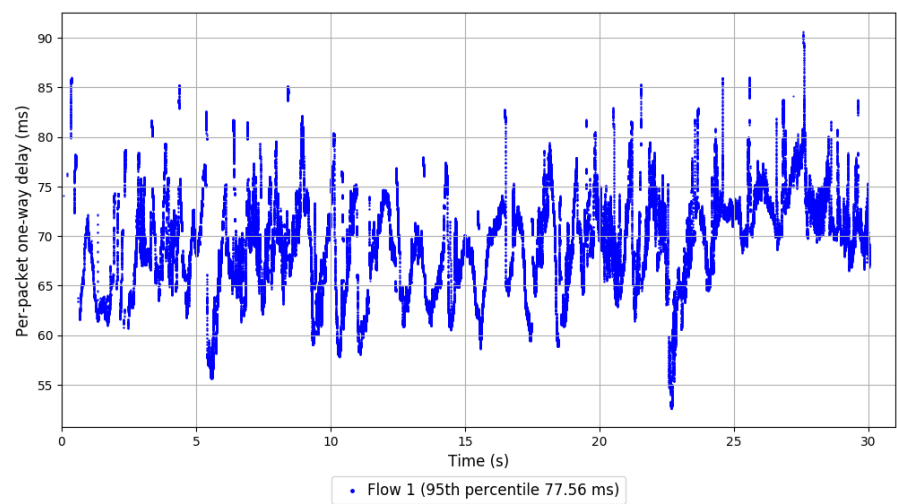
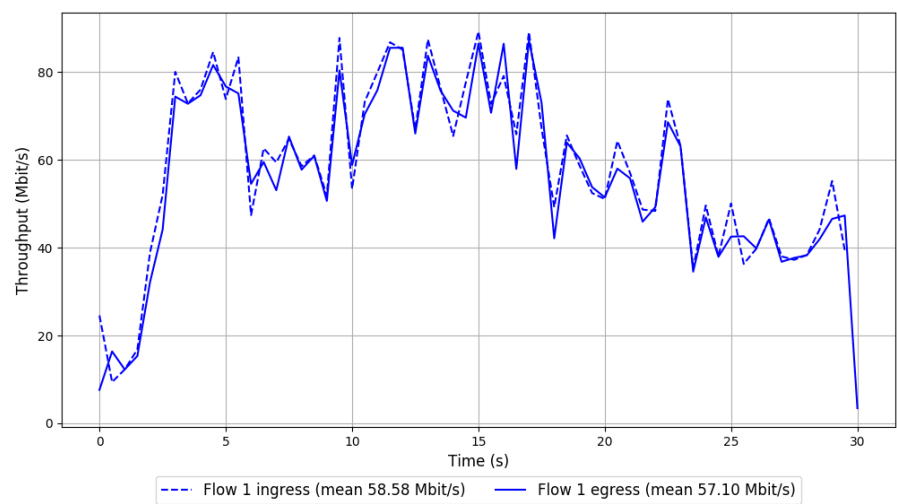


Run 3: Statistics of TaoVA-100x

Start at: 2018-03-20 15:09:59
End at: 2018-03-20 15:10:29
Local clock offset: 3.83 ms
Remote clock offset: -22.474 ms

Below is generated by plot.py at 2018-03-20 18:41:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 57.10 Mbit/s
95th percentile per-packet one-way delay: 77.563 ms
Loss rate: 2.55%
-- Flow 1:
Average throughput: 57.10 Mbit/s
95th percentile per-packet one-way delay: 77.563 ms
Loss rate: 2.55%

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

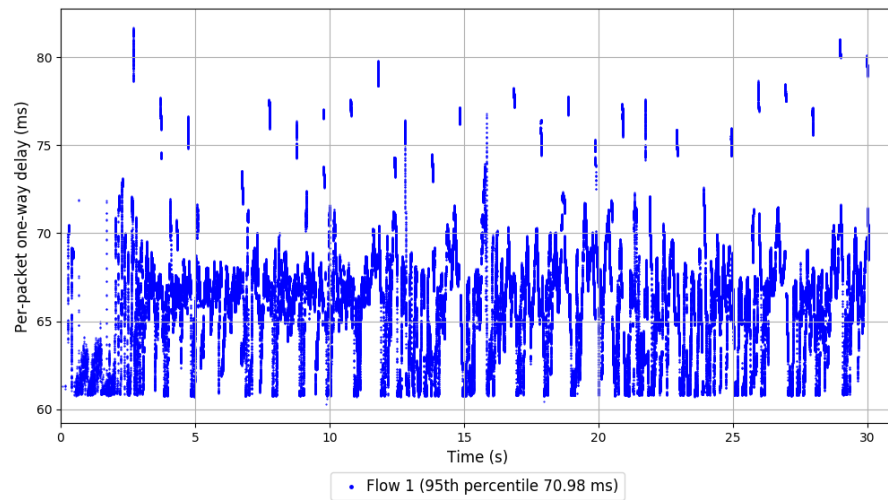
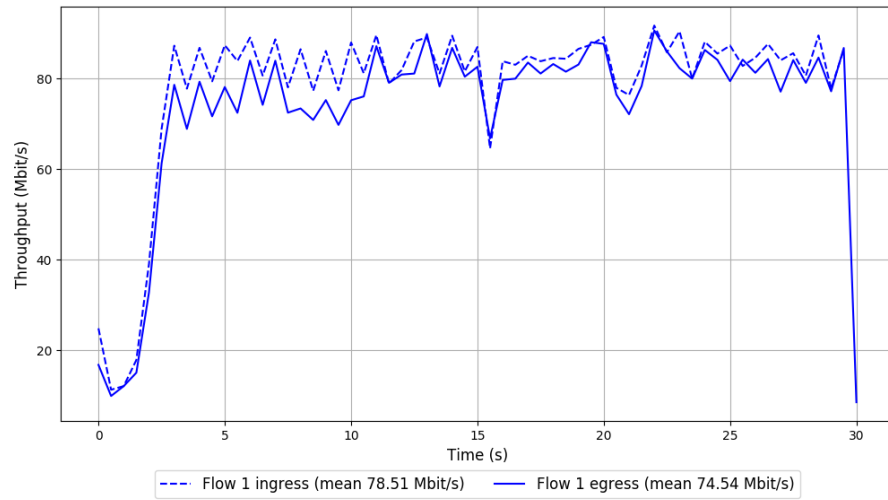


Run 4: Statistics of TaoVA-100x

Start at: 2018-03-20 15:32:09
End at: 2018-03-20 15:32:39
Local clock offset: 4.985 ms
Remote clock offset: -12.941 ms

Below is generated by plot.py at 2018-03-20 18:41:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 74.54 Mbit/s
95th percentile per-packet one-way delay: 70.981 ms
Loss rate: 5.04%
-- Flow 1:
Average throughput: 74.54 Mbit/s
95th percentile per-packet one-way delay: 70.981 ms
Loss rate: 5.04%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-03-20 15:55:22

End at: 2018-03-20 15:55:52

Local clock offset: 4.892 ms

Remote clock offset: -7.927 ms

Below is generated by plot.py at 2018-03-20 18:41:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.72 Mbit/s

95th percentile per-packet one-way delay: 72.246 ms

Loss rate: 3.81%

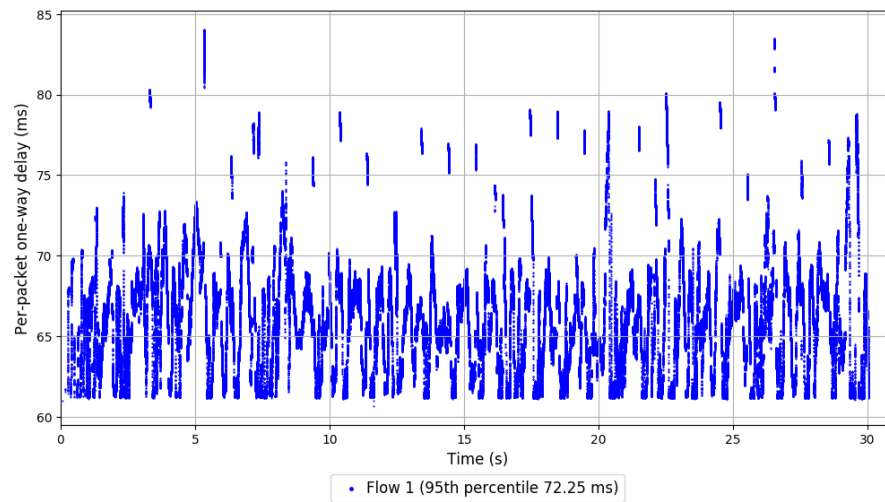
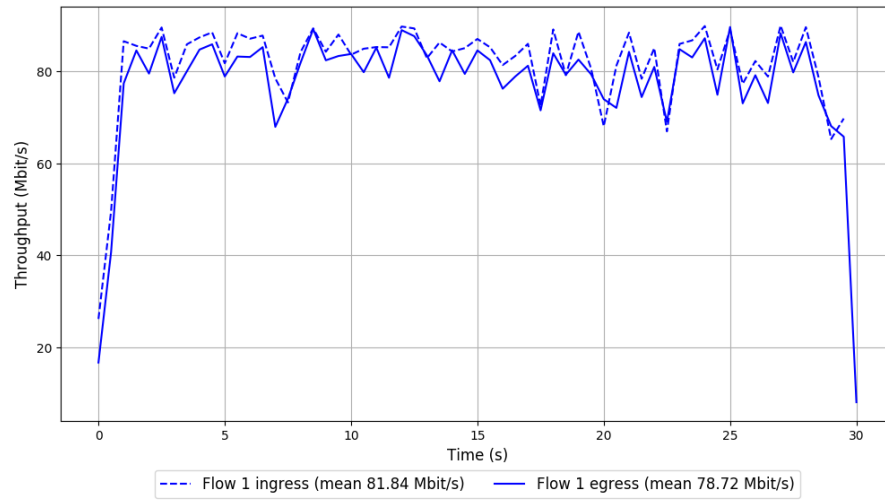
-- Flow 1:

Average throughput: 78.72 Mbit/s

95th percentile per-packet one-way delay: 72.246 ms

Loss rate: 3.81%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-03-20 16:17:28

End at: 2018-03-20 16:17:58

Local clock offset: 6.483 ms

Remote clock offset: 0.584 ms

Below is generated by plot.py at 2018-03-20 18:41:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.71 Mbit/s

95th percentile per-packet one-way delay: 90.681 ms

Loss rate: 1.03%

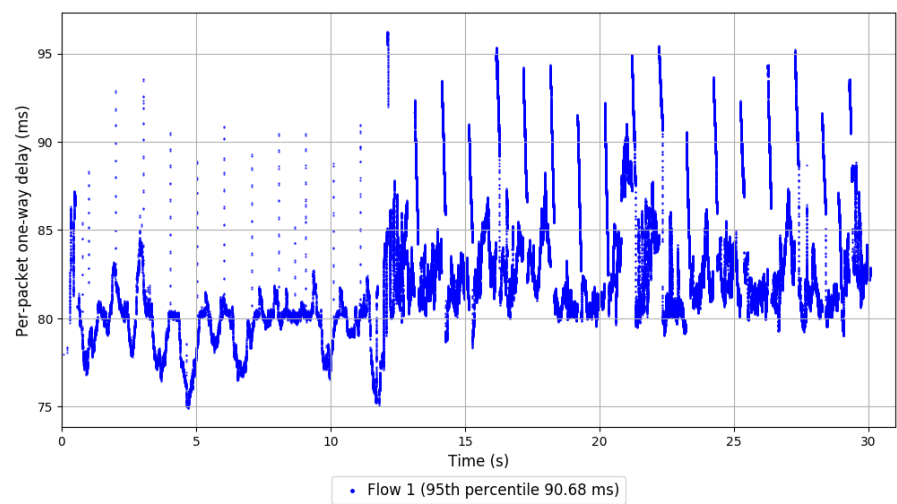
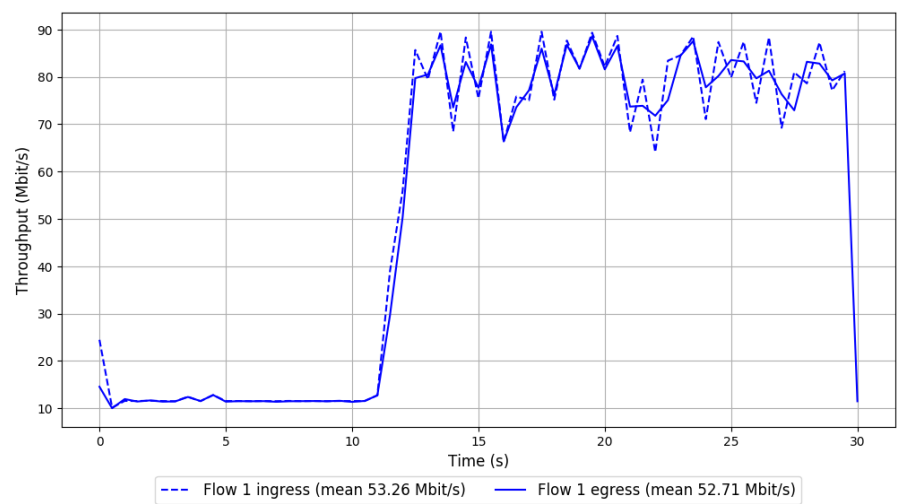
-- Flow 1:

Average throughput: 52.71 Mbit/s

95th percentile per-packet one-way delay: 90.681 ms

Loss rate: 1.03%

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



Run 7: Statistics of TaoVA-100x

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

End at: 2018-03-20 16:42:33

Local clock offset: 2.395 ms

Remote clock offset: 2.357 ms

Below is generated by plot.py at 2018-03-20 18:41:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.09 Mbit/s

95th percentile per-packet one-way delay: 78.129 ms

Loss rate: 4.74%

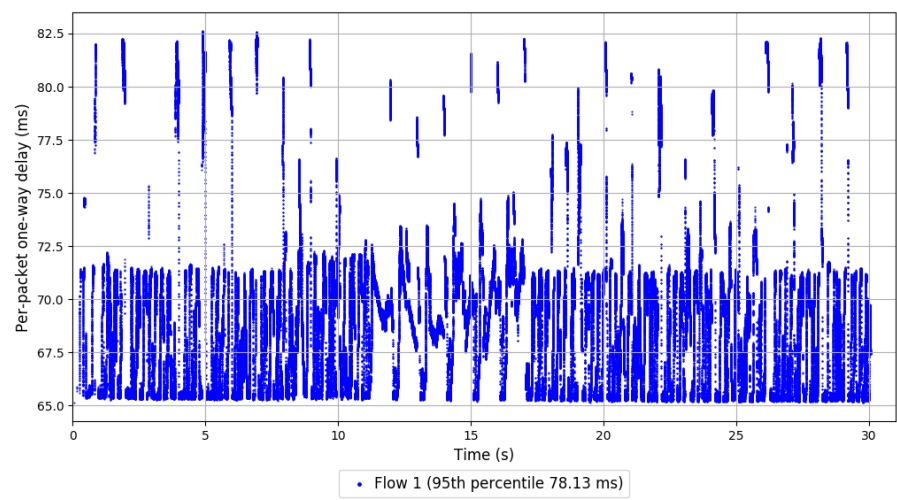
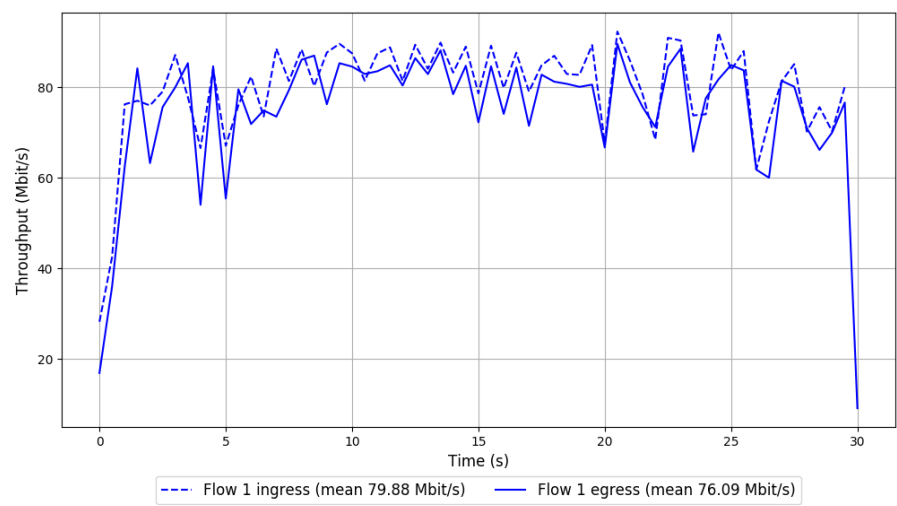
-- Flow 1:

Average throughput: 76.09 Mbit/s

95th percentile per-packet one-way delay: 78.129 ms

Loss rate: 4.74%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-03-20 17:04:38

End at: 2018-03-20 17:05:08

Local clock offset: -1.658 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2018-03-20 18:41:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.70 Mbit/s

95th percentile per-packet one-way delay: 79.377 ms

Loss rate: 4.82%

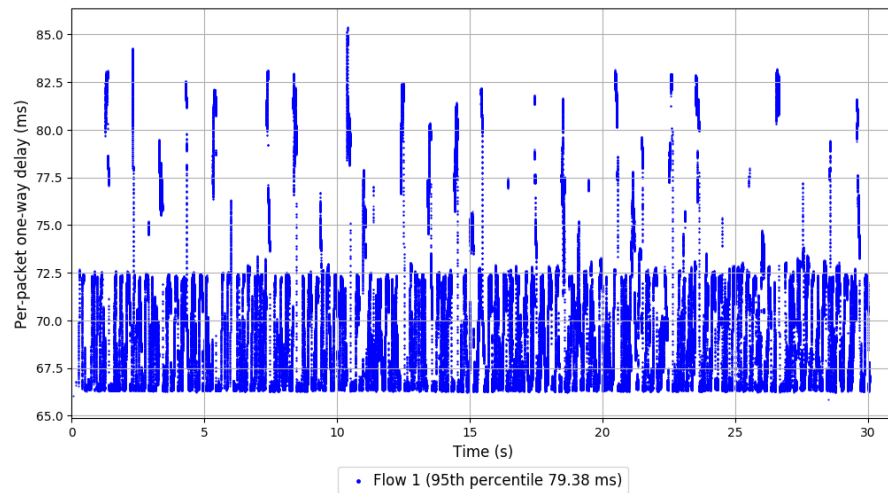
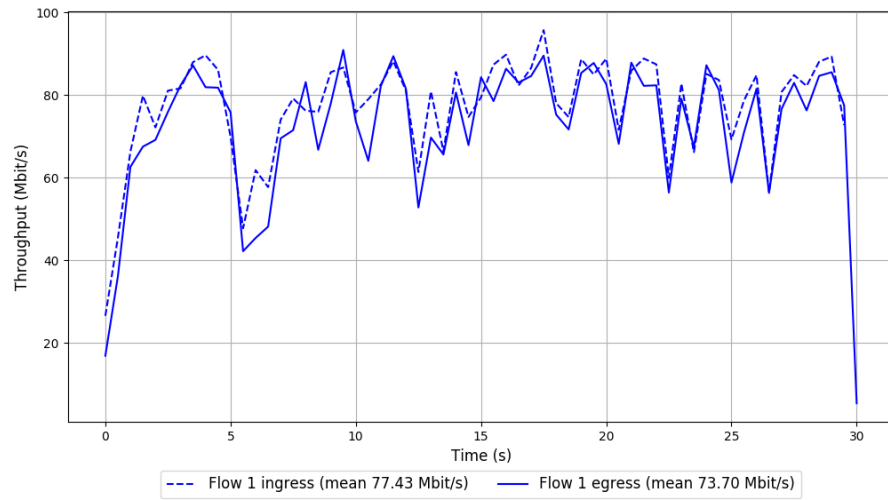
-- Flow 1:

Average throughput: 73.70 Mbit/s

95th percentile per-packet one-way delay: 79.377 ms

Loss rate: 4.82%

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

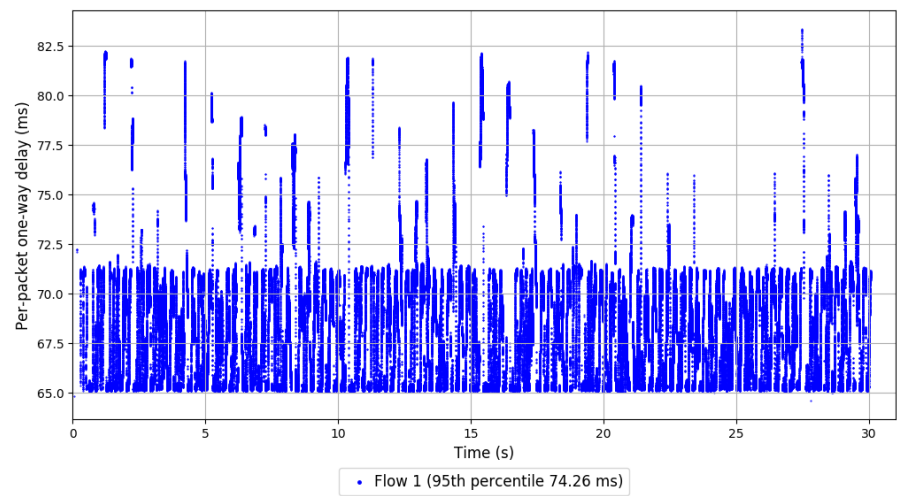
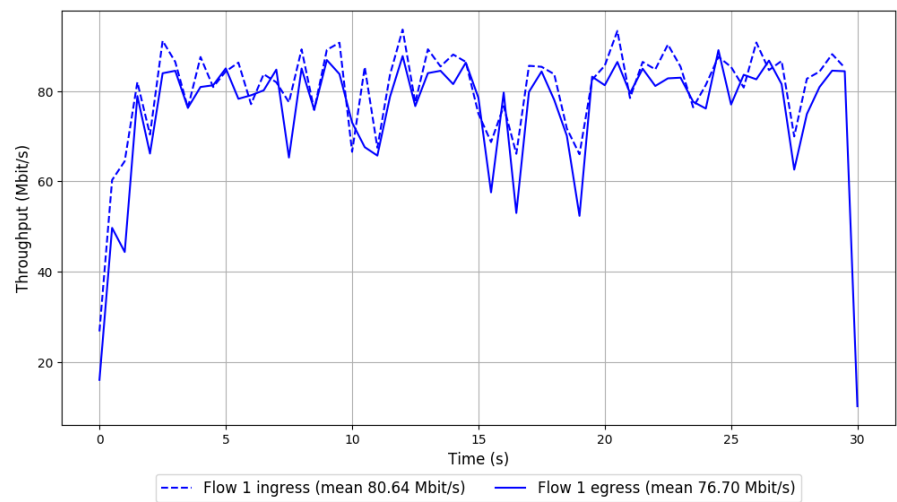


Run 9: Statistics of TaoVA-100x

Start at: 2018-03-20 17:26:21
End at: 2018-03-20 17:26:51
Local clock offset: -0.553 ms
Remote clock offset: -0.481 ms

Below is generated by plot.py at 2018-03-20 18:42:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.70 Mbit/s
95th percentile per-packet one-way delay: 74.256 ms
Loss rate: 4.87%
-- Flow 1:
Average throughput: 76.70 Mbit/s
95th percentile per-packet one-way delay: 74.256 ms
Loss rate: 4.87%

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

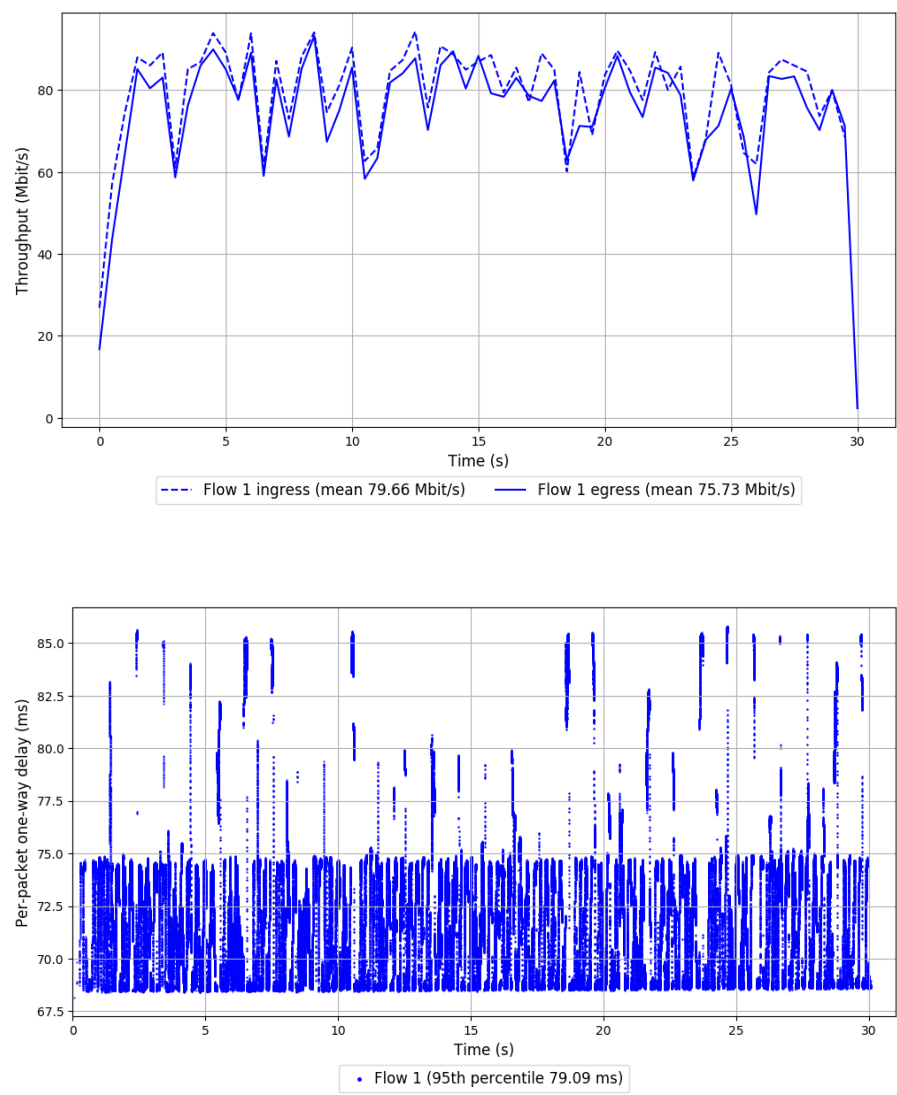


Run 10: Statistics of TaoVA-100x

Start at: 2018-03-20 17:49:35
End at: 2018-03-20 17:50:05
Local clock offset: -0.227 ms
Remote clock offset: -0.622 ms

Below is generated by plot.py at 2018-03-20 18:42:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 75.73 Mbit/s
95th percentile per-packet one-way delay: 79.095 ms
Loss rate: 4.93%
-- Flow 1:
Average throughput: 75.73 Mbit/s
95th percentile per-packet one-way delay: 79.095 ms
Loss rate: 4.93%

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

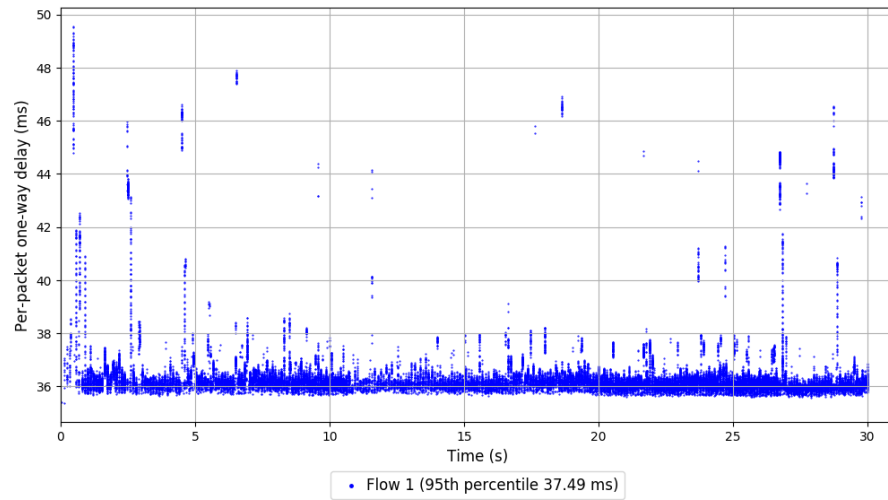
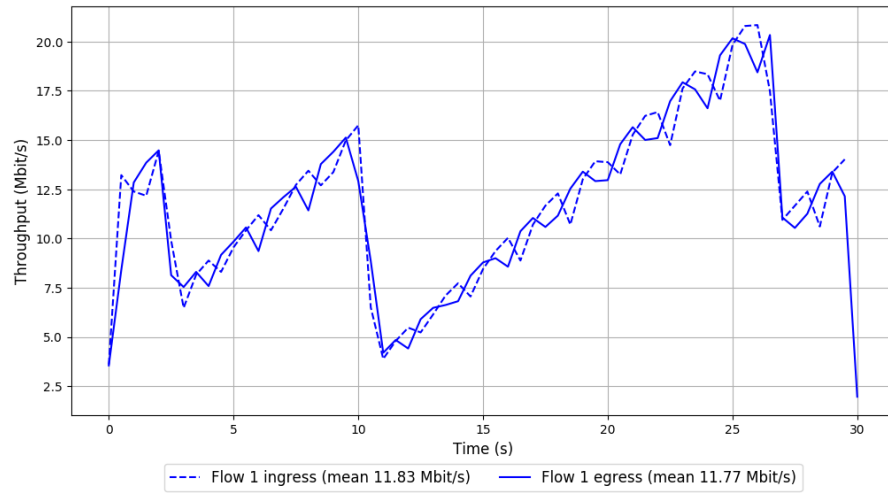


Run 1: Statistics of TCP Vegas

Start at: 2018-03-20 14:33:56
End at: 2018-03-20 14:34:26
Local clock offset: 4.751 ms
Remote clock offset: -34.558 ms

Below is generated by plot.py at 2018-03-20 18:42:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 11.77 Mbit/s
95th percentile per-packet one-way delay: 37.487 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 11.77 Mbit/s
95th percentile per-packet one-way delay: 37.487 ms
Loss rate: 0.52%

Run 1: Report of TCP Vegas — Data Link

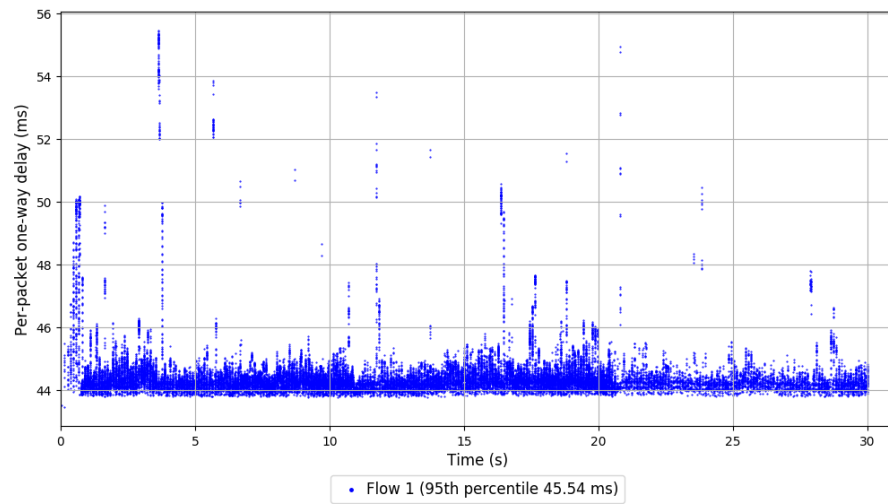
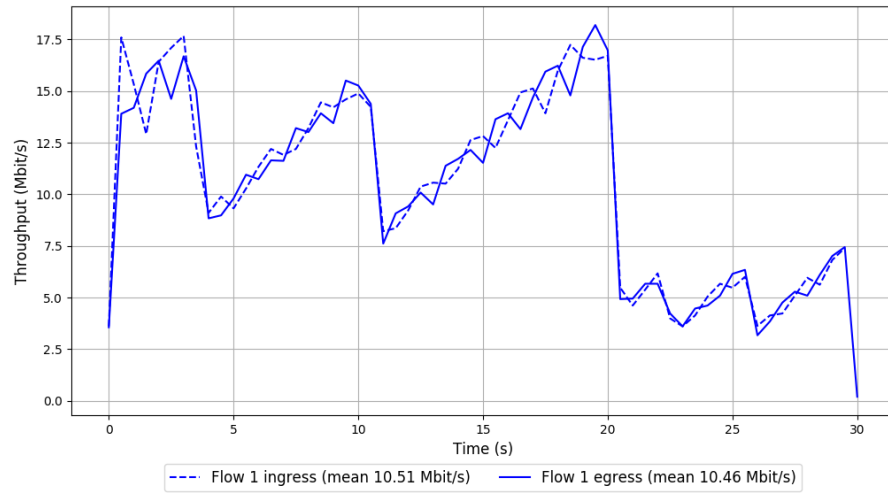


Run 2: Statistics of TCP Vegas

Start at: 2018-03-20 14:56:52
End at: 2018-03-20 14:57:23
Local clock offset: 3.785 ms
Remote clock offset: -26.296 ms

Below is generated by plot.py at 2018-03-20 18:42:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 10.46 Mbit/s
95th percentile per-packet one-way delay: 45.537 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 10.46 Mbit/s
95th percentile per-packet one-way delay: 45.537 ms
Loss rate: 0.42%

Run 2: Report of TCP Vegas — Data Link

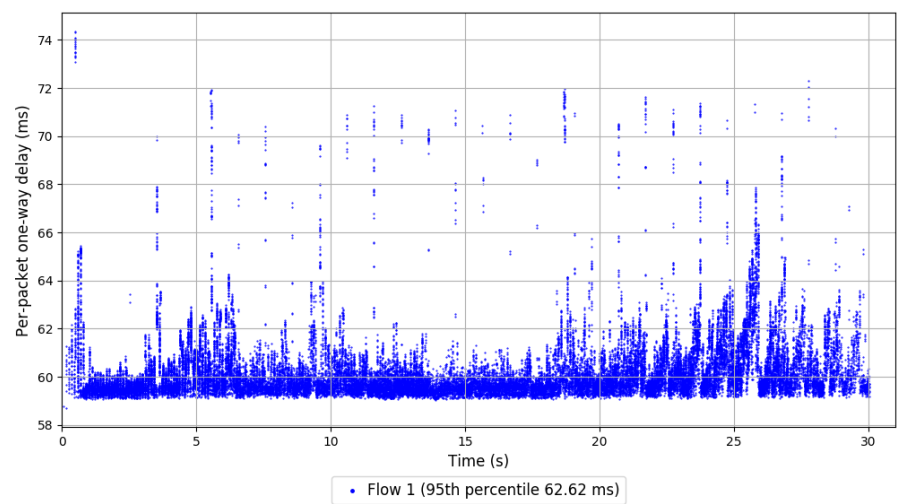
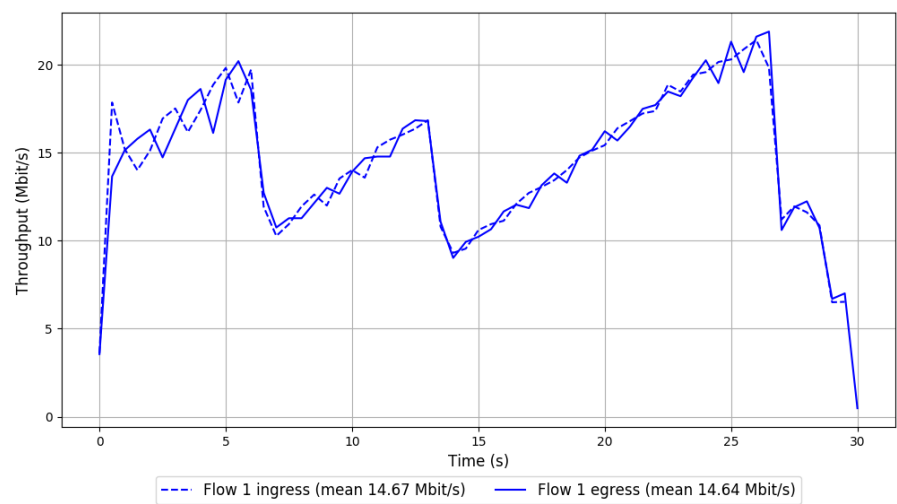


Run 3: Statistics of TCP Vegas

Start at: 2018-03-20 15:18:48
End at: 2018-03-20 15:19:18
Local clock offset: 4.197 ms
Remote clock offset: -12.766 ms

Below is generated by plot.py at 2018-03-20 18:42:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 14.64 Mbit/s
95th percentile per-packet one-way delay: 62.622 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 14.64 Mbit/s
95th percentile per-packet one-way delay: 62.622 ms
Loss rate: 0.20%

Run 3: Report of TCP Vegas — Data Link

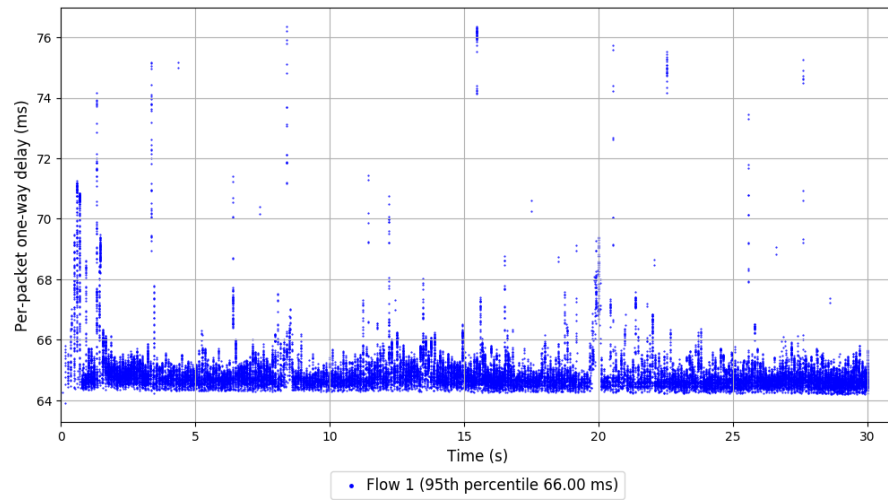
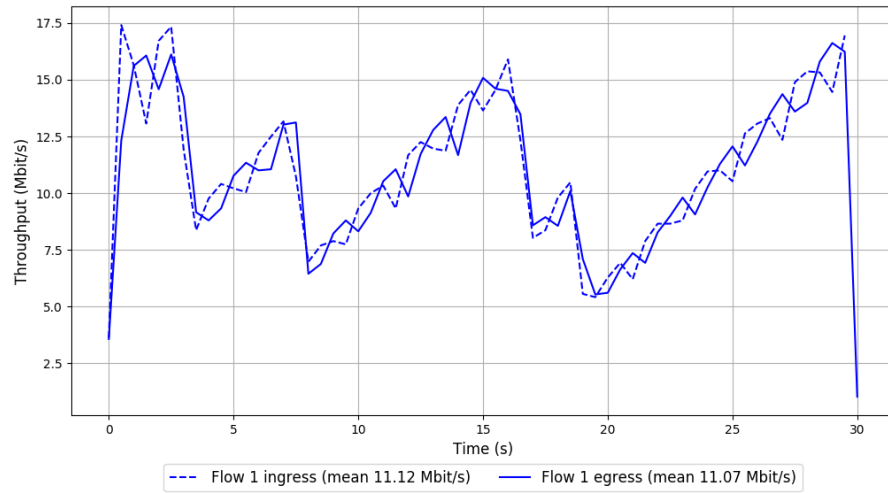


Run 4: Statistics of TCP Vegas

Start at: 2018-03-20 15:40:37
End at: 2018-03-20 15:41:07
Local clock offset: 6.553 ms
Remote clock offset: -5.482 ms

Below is generated by plot.py at 2018-03-20 18:42:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 11.07 Mbit/s
95th percentile per-packet one-way delay: 65.997 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 11.07 Mbit/s
95th percentile per-packet one-way delay: 65.997 ms
Loss rate: 0.37%

Run 4: Report of TCP Vegas — Data Link

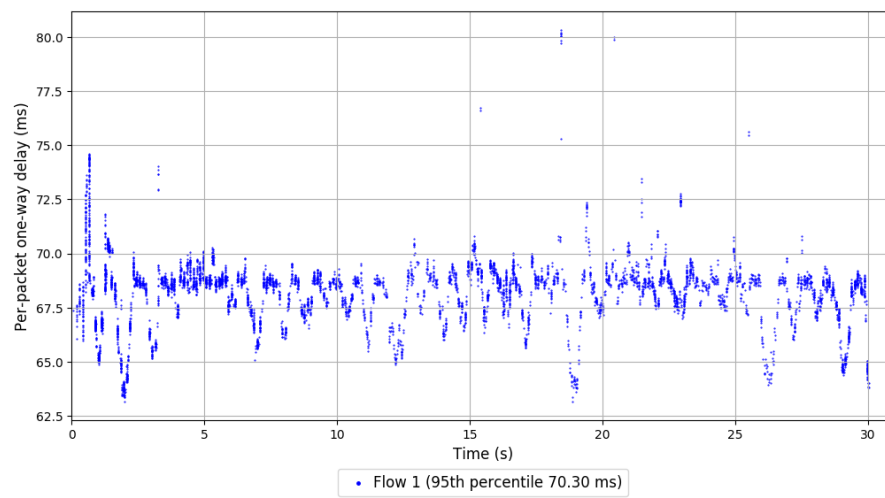
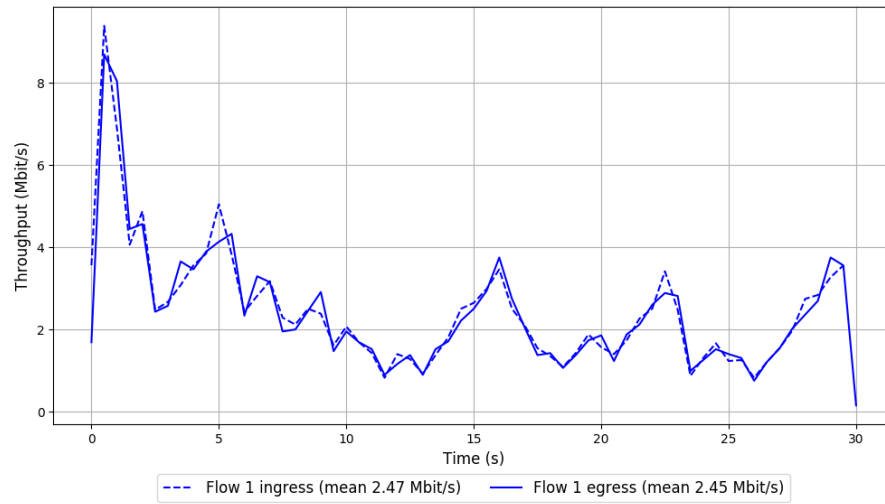


Run 5: Statistics of TCP Vegas

Start at: 2018-03-20 16:03:51
End at: 2018-03-20 16:04:21
Local clock offset: 6.404 ms
Remote clock offset: -12.231 ms

Below is generated by plot.py at 2018-03-20 18:42:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.45 Mbit/s
95th percentile per-packet one-way delay: 70.302 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 2.45 Mbit/s
95th percentile per-packet one-way delay: 70.302 ms
Loss rate: 0.86%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-03-20 16:25:56

End at: 2018-03-20 16:26:26

Local clock offset: 6.56 ms

Remote clock offset: 1.237 ms

Below is generated by plot.py at 2018-03-20 18:42:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.17 Mbit/s

95th percentile per-packet one-way delay: 67.481 ms

Loss rate: 0.26%

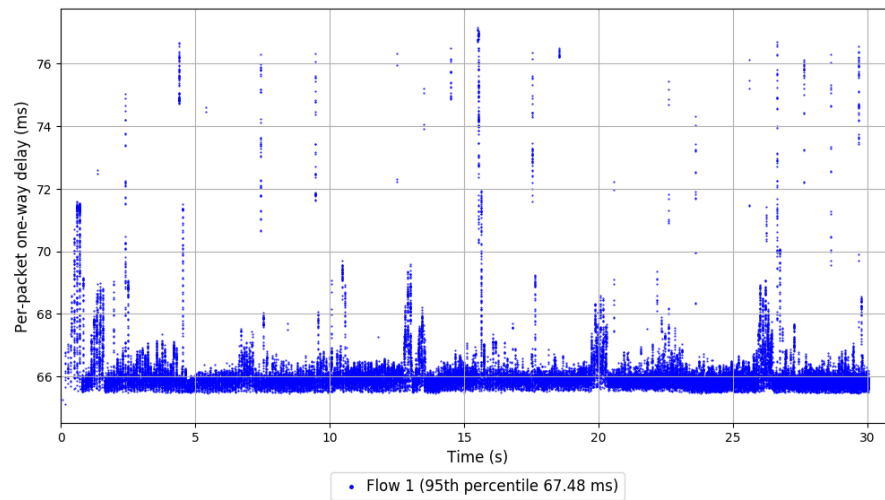
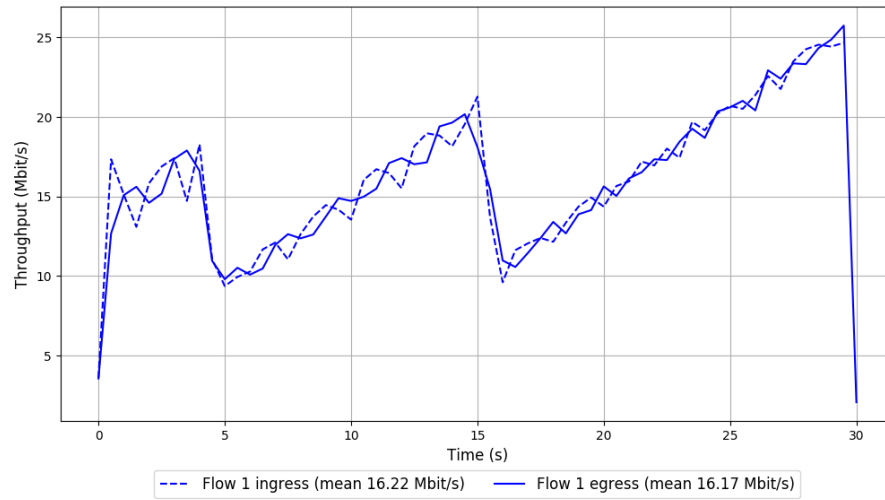
-- Flow 1:

Average throughput: 16.17 Mbit/s

95th percentile per-packet one-way delay: 67.481 ms

Loss rate: 0.26%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-03-20 16:51:08

End at: 2018-03-20 16:51:38

Local clock offset: 0.65 ms

Remote clock offset: 0.71 ms

Below is generated by plot.py at 2018-03-20 18:42:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.26 Mbit/s

95th percentile per-packet one-way delay: 67.467 ms

Loss rate: 0.37%

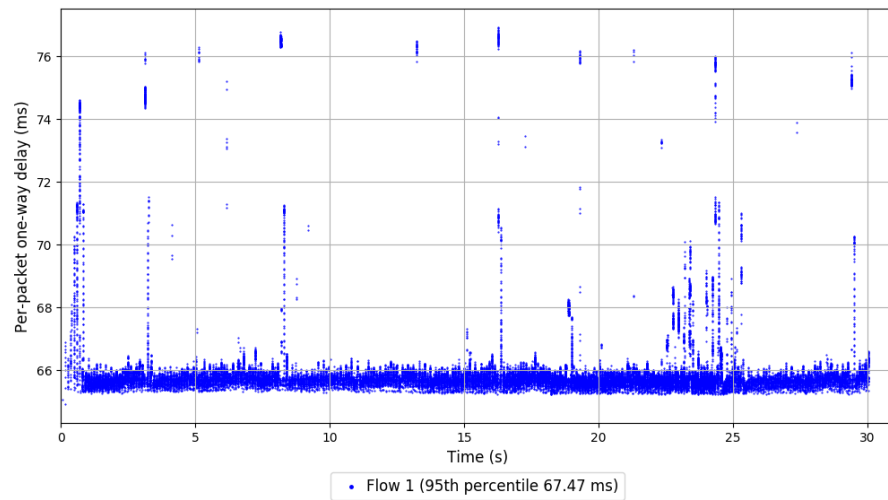
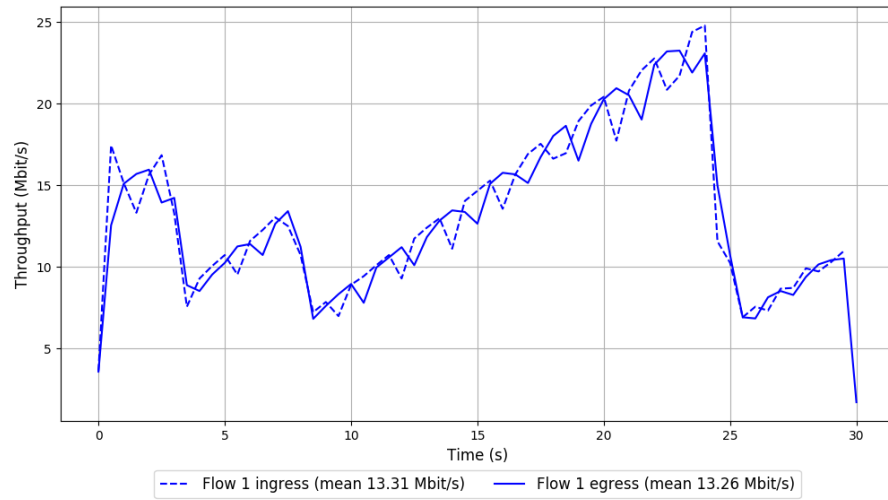
-- Flow 1:

Average throughput: 13.26 Mbit/s

95th percentile per-packet one-way delay: 67.467 ms

Loss rate: 0.37%

Run 7: Report of TCP Vegas — Data Link

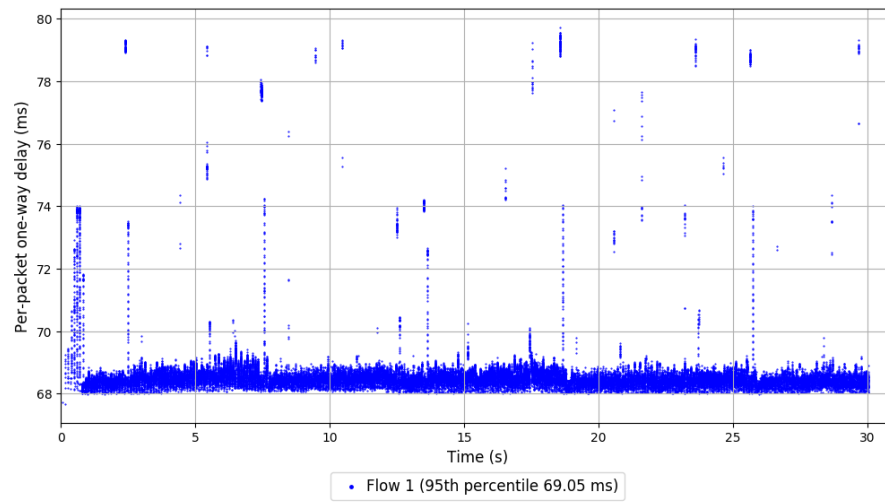
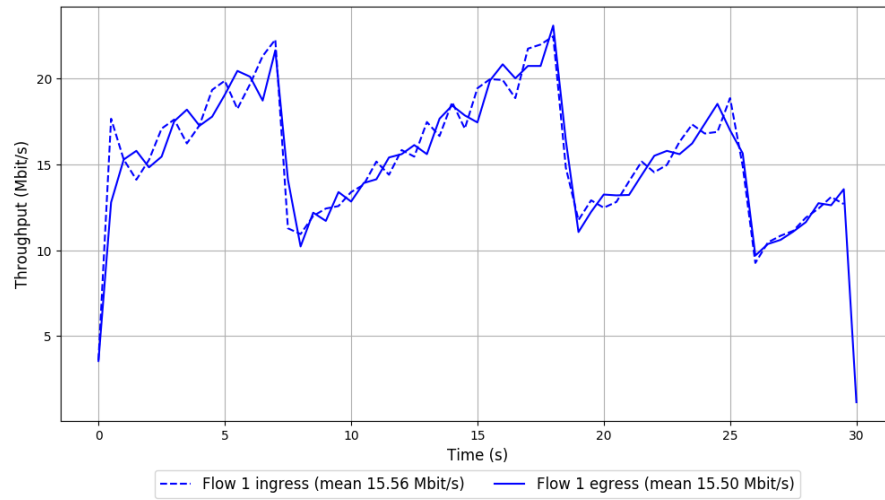


Run 8: Statistics of TCP Vegas

Start at: 2018-03-20 17:13:07
End at: 2018-03-20 17:13:37
Local clock offset: -3.372 ms
Remote clock offset: -0.047 ms

Below is generated by plot.py at 2018-03-20 18:42:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 15.50 Mbit/s
95th percentile per-packet one-way delay: 69.047 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 15.50 Mbit/s
95th percentile per-packet one-way delay: 69.047 ms
Loss rate: 0.38%

Run 8: Report of TCP Vegas — Data Link

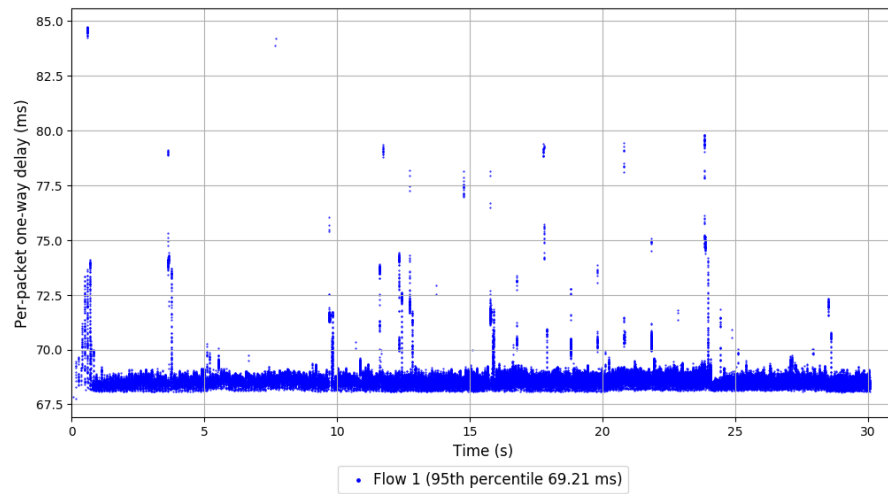
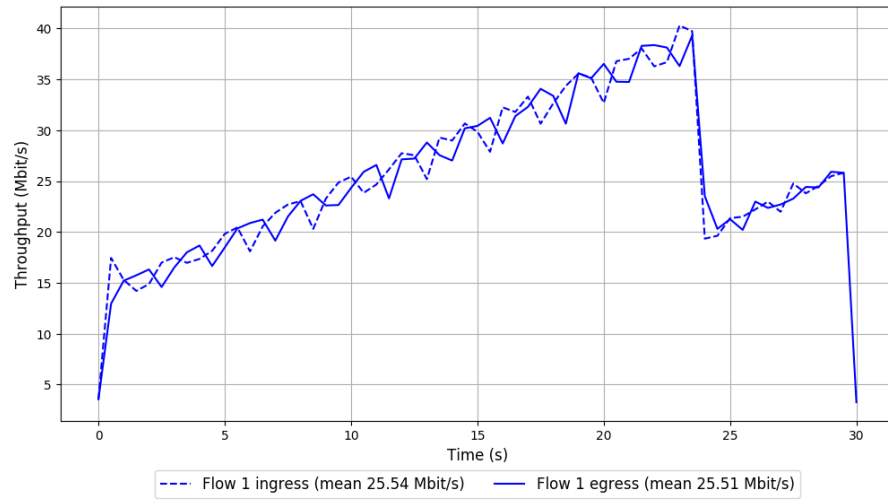


Run 9: Statistics of TCP Vegas

Start at: 2018-03-20 17:34:50
End at: 2018-03-20 17:35:20
Local clock offset: -3.802 ms
Remote clock offset: -0.584 ms

Below is generated by plot.py at 2018-03-20 18:42:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 25.51 Mbit/s
95th percentile per-packet one-way delay: 69.210 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 25.51 Mbit/s
95th percentile per-packet one-way delay: 69.210 ms
Loss rate: 0.11%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-03-20 17:58:42

End at: 2018-03-20 17:59:12

Local clock offset: 4.725 ms

Remote clock offset: -1.437 ms

Below is generated by plot.py at 2018-03-20 18:42:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.13 Mbit/s

95th percentile per-packet one-way delay: 66.810 ms

Loss rate: 0.33%

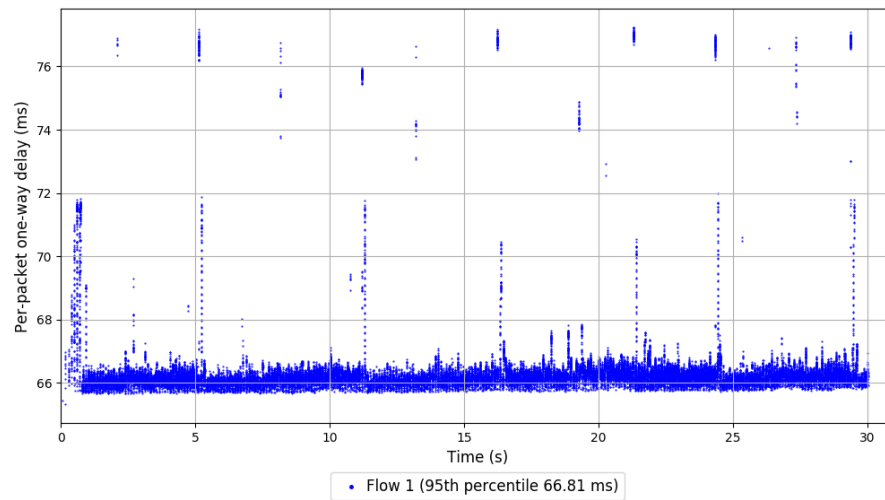
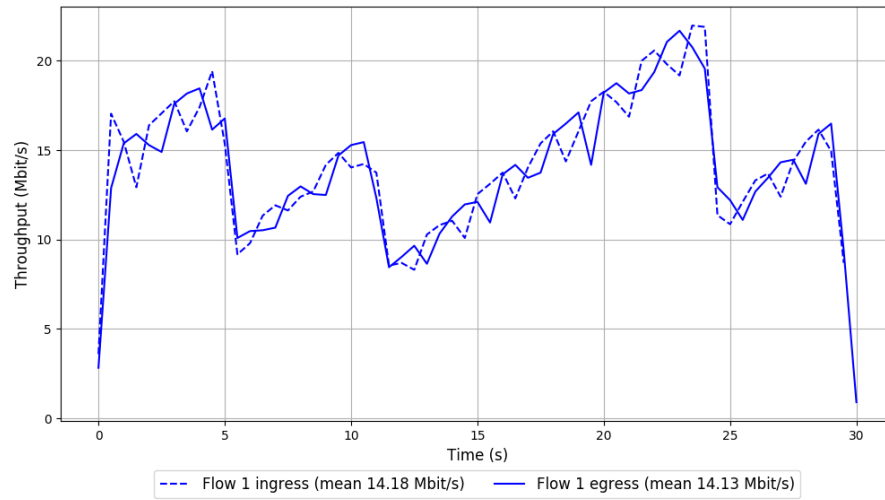
-- Flow 1:

Average throughput: 14.13 Mbit/s

95th percentile per-packet one-way delay: 66.810 ms

Loss rate: 0.33%

Run 10: Report of TCP Vegas — Data Link

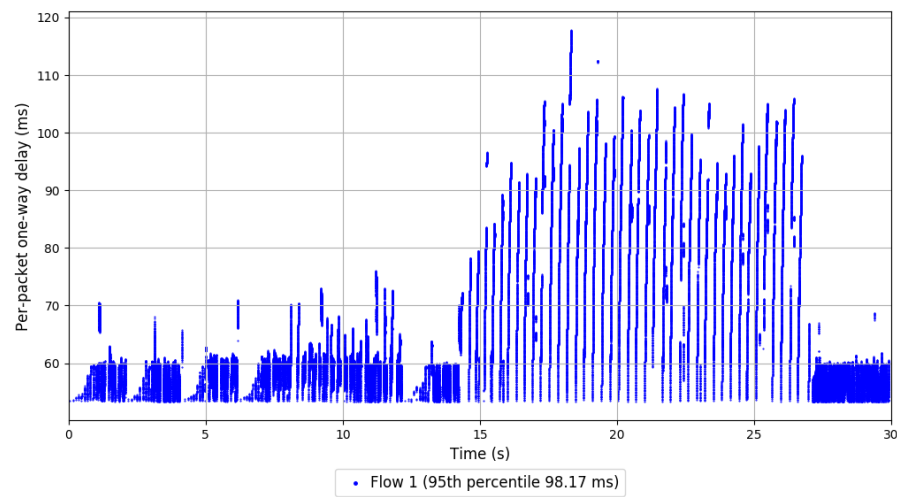
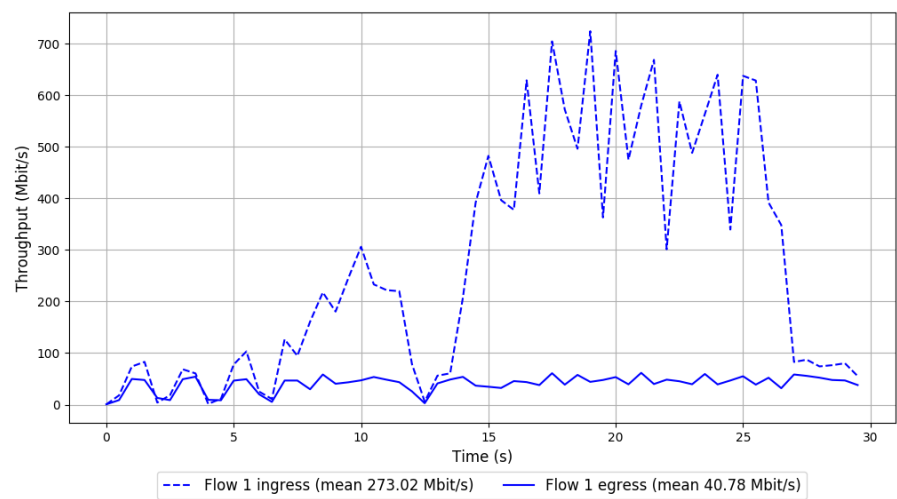


Run 1: Statistics of Verus

Start at: 2018-03-20 14:47:06
End at: 2018-03-20 14:47:36
Local clock offset: 4.368 ms
Remote clock offset: -16.723 ms

Below is generated by plot.py at 2018-03-20 18:43:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 40.78 Mbit/s
95th percentile per-packet one-way delay: 98.170 ms
Loss rate: 85.06%
-- Flow 1:
Average throughput: 40.78 Mbit/s
95th percentile per-packet one-way delay: 98.170 ms
Loss rate: 85.06%

Run 1: Report of Verus — Data Link

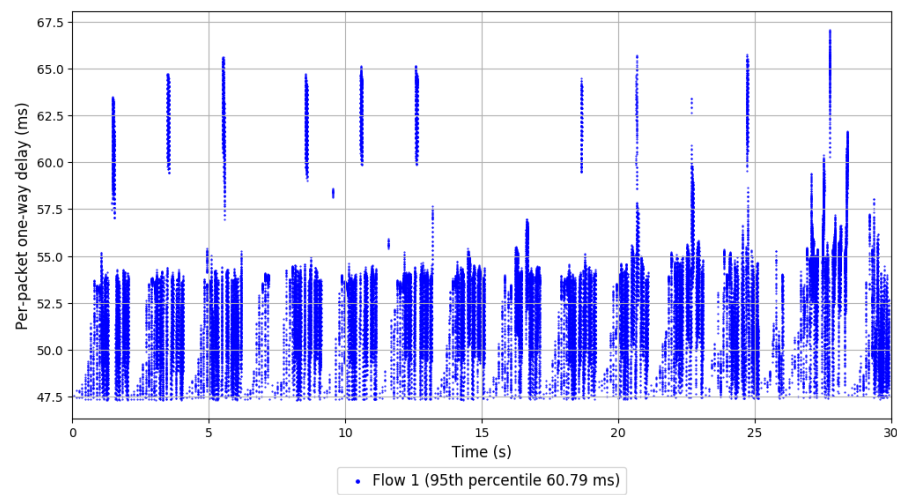
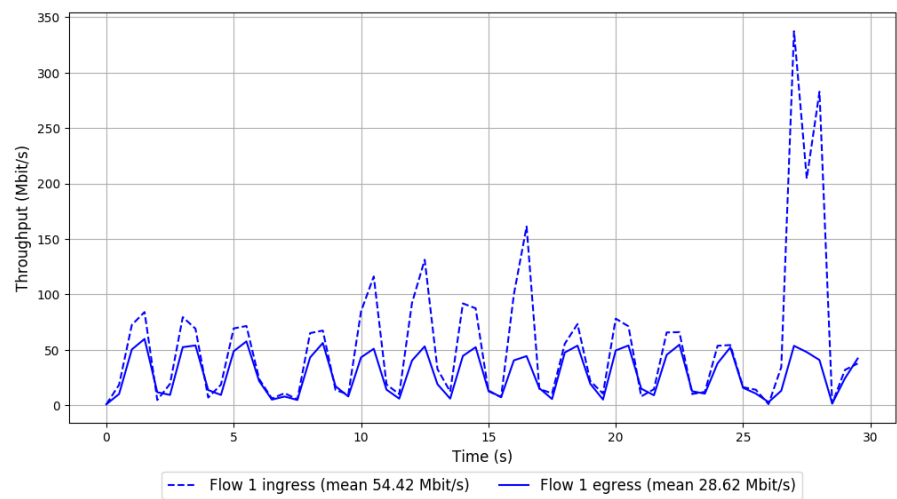


Run 2: Statistics of Verus

Start at: 2018-03-20 15:08:47
End at: 2018-03-20 15:09:17
Local clock offset: 4.128 ms
Remote clock offset: -23.919 ms

Below is generated by plot.py at 2018-03-20 18:43:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 28.62 Mbit/s
95th percentile per-packet one-way delay: 60.788 ms
Loss rate: 47.40%
-- Flow 1:
Average throughput: 28.62 Mbit/s
95th percentile per-packet one-way delay: 60.788 ms
Loss rate: 47.40%

Run 2: Report of Verus — Data Link

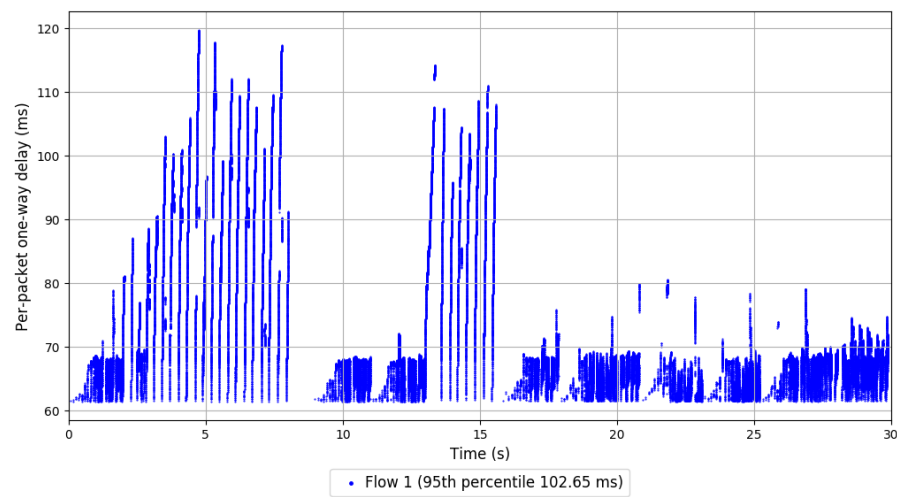
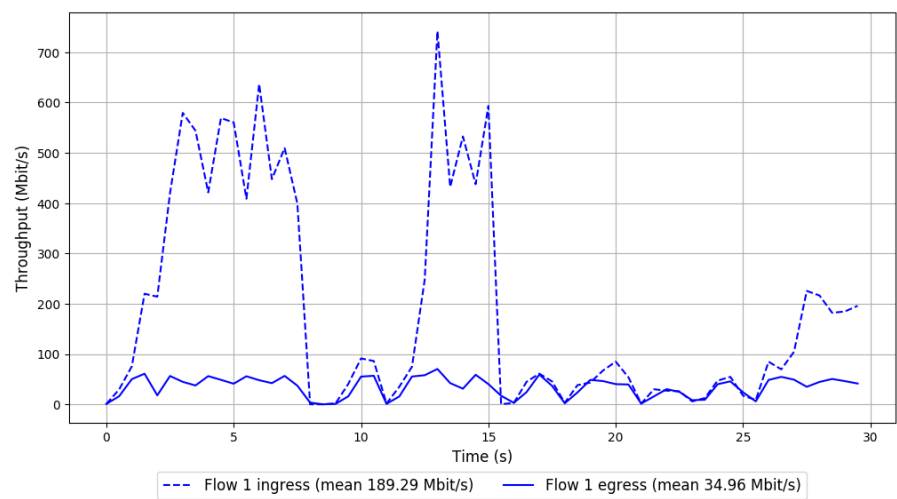


Run 3: Statistics of Verus

Start at: 2018-03-20 15:30:56
End at: 2018-03-20 15:31:26
Local clock offset: 4.717 ms
Remote clock offset: -11.993 ms

Below is generated by plot.py at 2018-03-20 18:43:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 34.96 Mbit/s
95th percentile per-packet one-way delay: 102.650 ms
Loss rate: 81.53%
-- Flow 1:
Average throughput: 34.96 Mbit/s
95th percentile per-packet one-way delay: 102.650 ms
Loss rate: 81.53%

Run 3: Report of Verus — Data Link

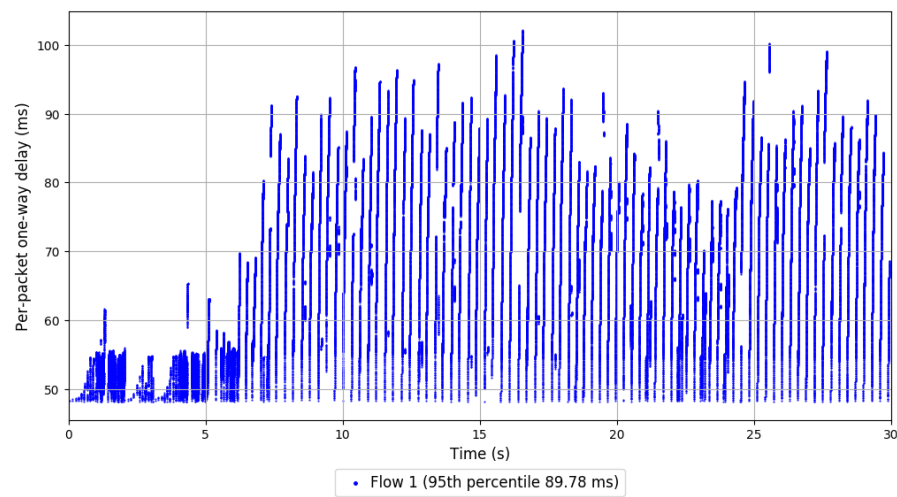
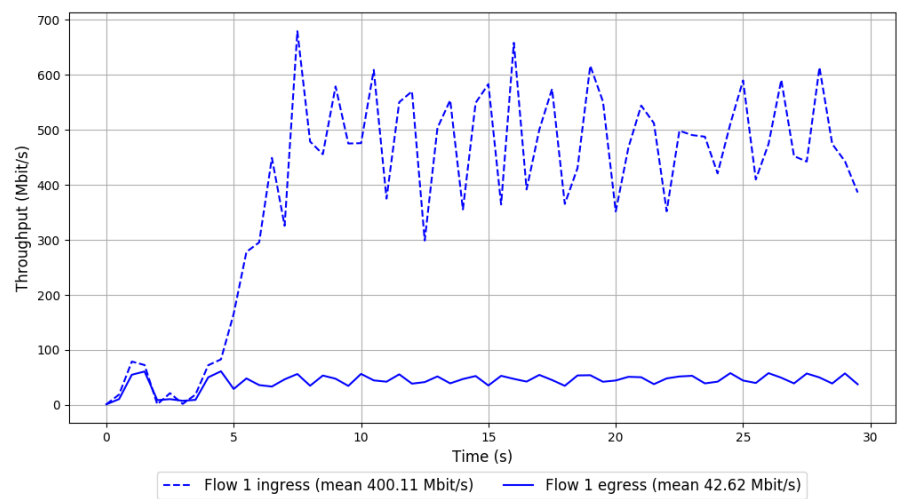


Run 4: Statistics of Verus

Start at: 2018-03-20 15:54:05
End at: 2018-03-20 15:54:35
Local clock offset: 7.758 ms
Remote clock offset: -17.778 ms

Below is generated by plot.py at 2018-03-20 18:44:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 42.62 Mbit/s
95th percentile per-packet one-way delay: 89.782 ms
Loss rate: 89.34%
-- Flow 1:
Average throughput: 42.62 Mbit/s
95th percentile per-packet one-way delay: 89.782 ms
Loss rate: 89.34%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-03-20 16:16:15

End at: 2018-03-20 16:16:45

Local clock offset: 6.322 ms

Remote clock offset: 0.304 ms

Below is generated by plot.py at 2018-03-20 18:44:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.52 Mbit/s

95th percentile per-packet one-way delay: 163.104 ms

Loss rate: 80.57%

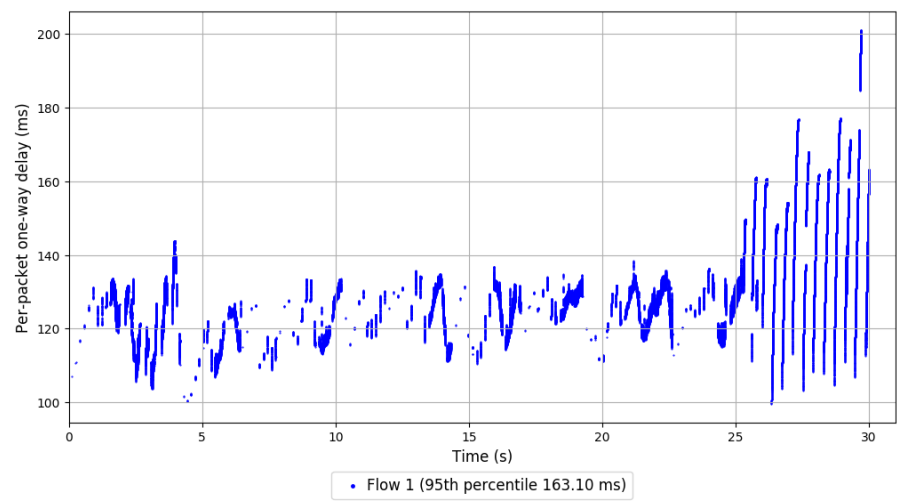
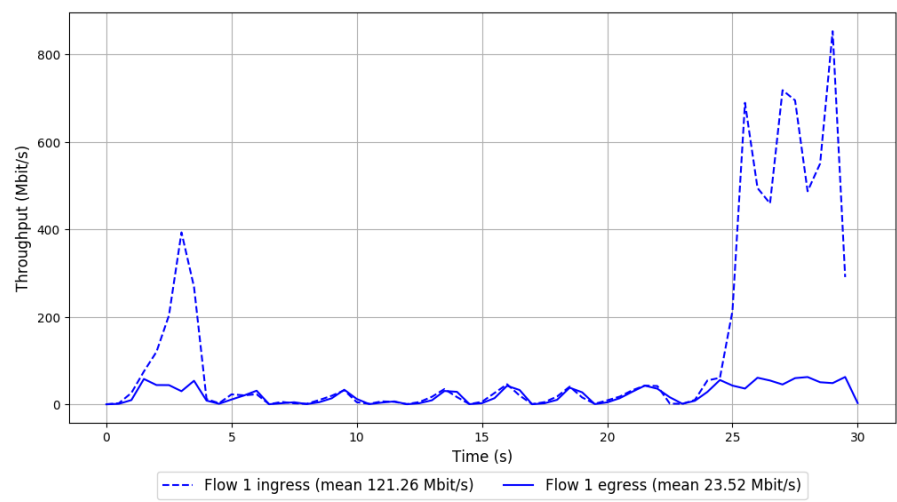
-- Flow 1:

Average throughput: 23.52 Mbit/s

95th percentile per-packet one-way delay: 163.104 ms

Loss rate: 80.57%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-03-20 16:40:45

End at: 2018-03-20 16:41:15

Local clock offset: 3.013 ms

Remote clock offset: 2.268 ms

Below is generated by plot.py at 2018-03-20 18:44:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.62 Mbit/s

95th percentile per-packet one-way delay: 133.352 ms

Loss rate: 89.25%

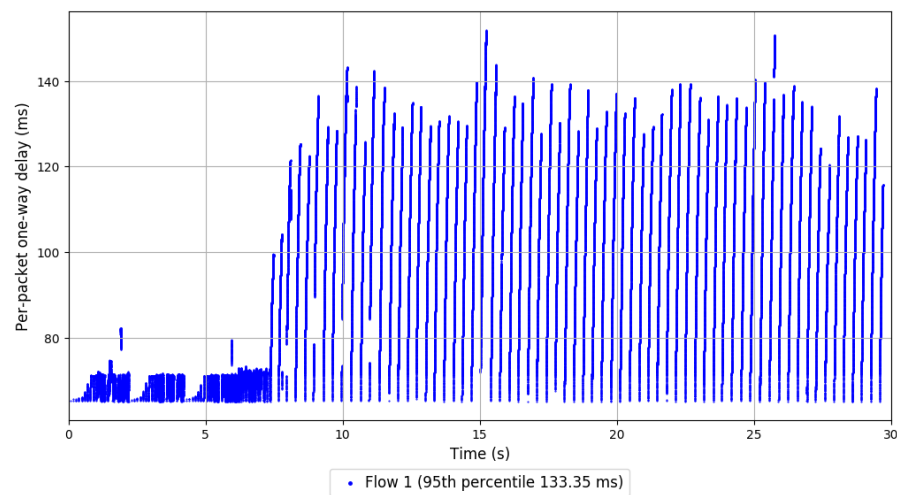
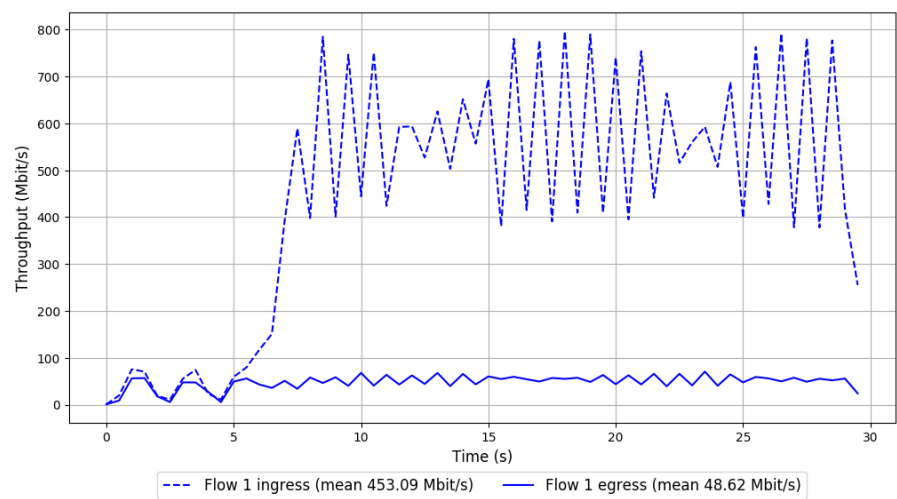
-- Flow 1:

Average throughput: 48.62 Mbit/s

95th percentile per-packet one-way delay: 133.352 ms

Loss rate: 89.25%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-03-20 17:03:24

End at: 2018-03-20 17:03:54

Local clock offset: -0.788 ms

Remote clock offset: 0.012 ms

Below is generated by plot.py at 2018-03-20 18:44:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.32 Mbit/s

95th percentile per-packet one-way delay: 130.964 ms

Loss rate: 83.49%

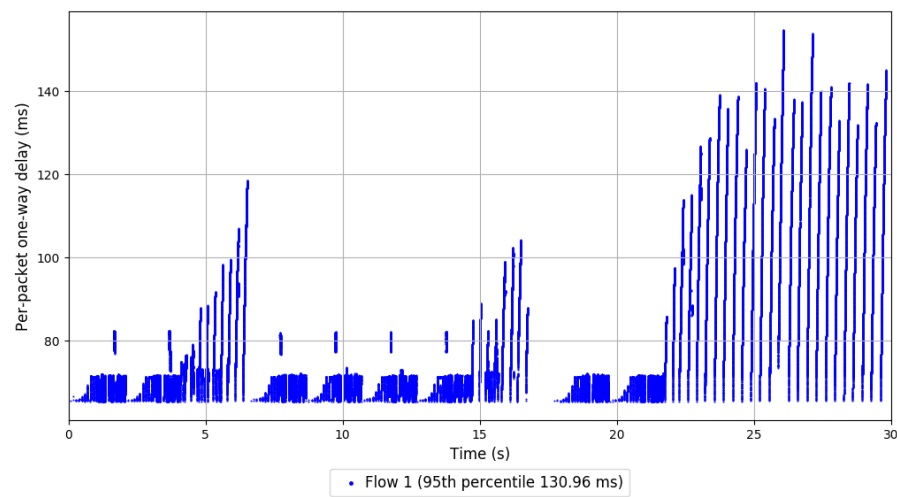
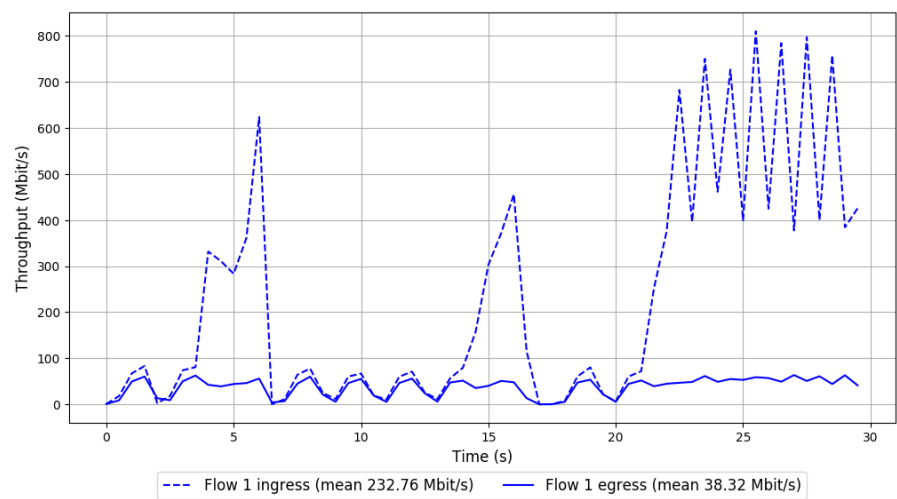
-- Flow 1:

Average throughput: 38.32 Mbit/s

95th percentile per-packet one-way delay: 130.964 ms

Loss rate: 83.49%

Run 7: Report of Verus — Data Link

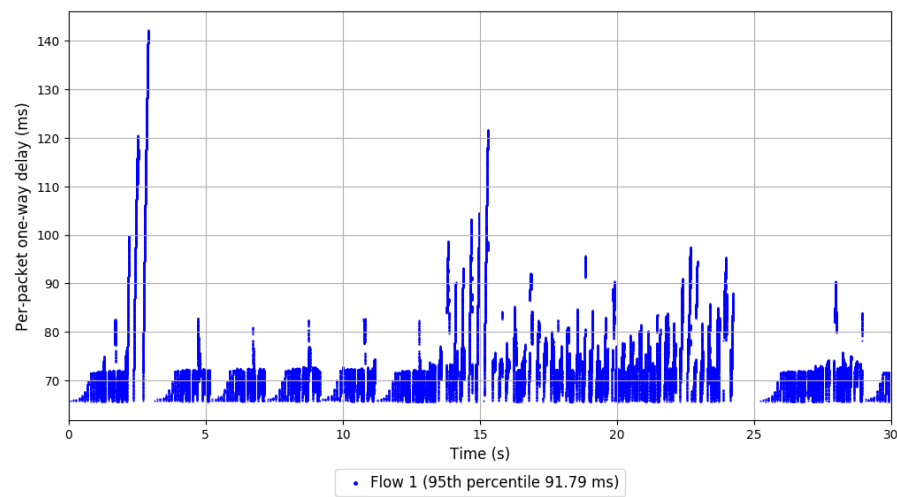
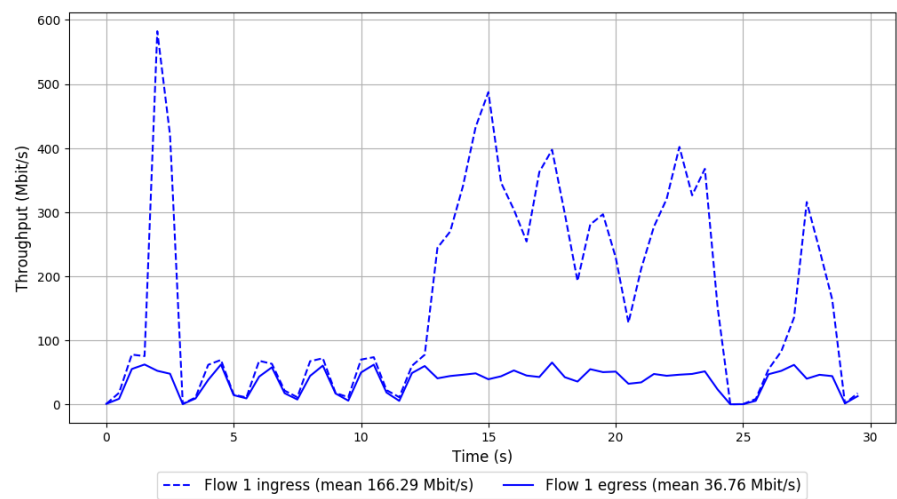


Run 8: Statistics of Verus

Start at: 2018-03-20 17:25:07
End at: 2018-03-20 17:25:37
Local clock offset: -0.776 ms
Remote clock offset: -0.408 ms

Below is generated by plot.py at 2018-03-20 18:44:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 36.76 Mbit/s
95th percentile per-packet one-way delay: 91.791 ms
Loss rate: 77.89%
-- Flow 1:
Average throughput: 36.76 Mbit/s
95th percentile per-packet one-way delay: 91.791 ms
Loss rate: 77.89%

Run 8: Report of Verus — Data Link

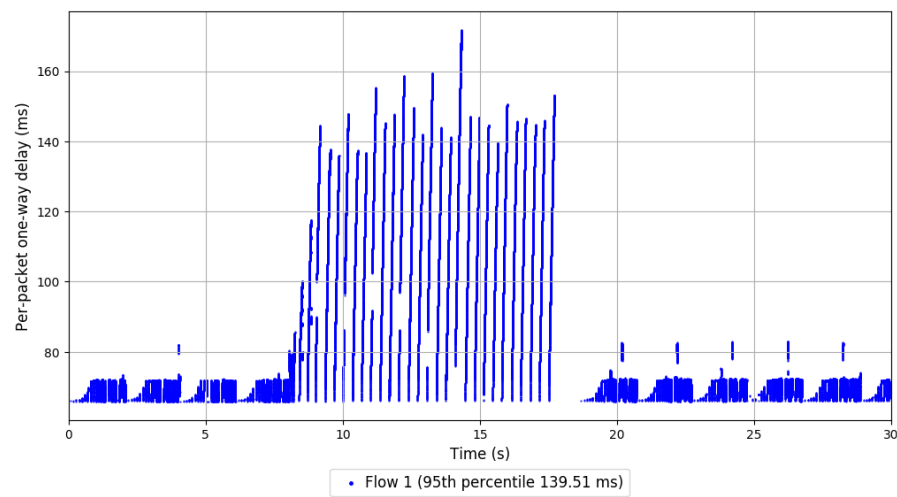
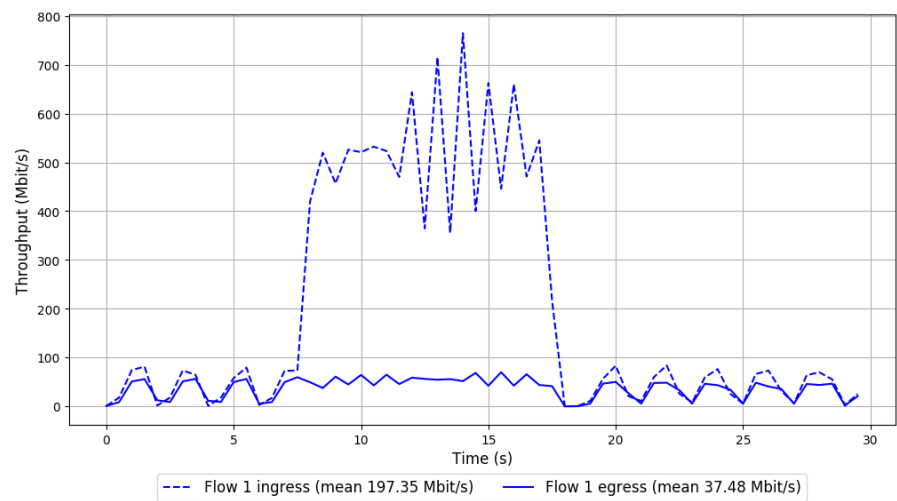


Run 9: Statistics of Verus

Start at: 2018-03-20 17:48:19
End at: 2018-03-20 17:48:49
Local clock offset: 1.914 ms
Remote clock offset: -0.683 ms

Below is generated by plot.py at 2018-03-20 18:44:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 37.48 Mbit/s
95th percentile per-packet one-way delay: 139.507 ms
Loss rate: 81.01%
-- Flow 1:
Average throughput: 37.48 Mbit/s
95th percentile per-packet one-way delay: 139.507 ms
Loss rate: 81.01%

Run 9: Report of Verus — Data Link

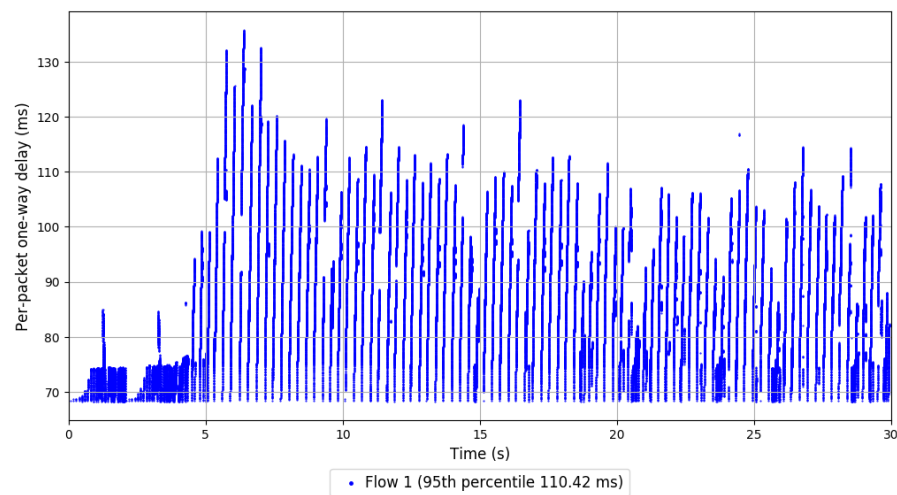
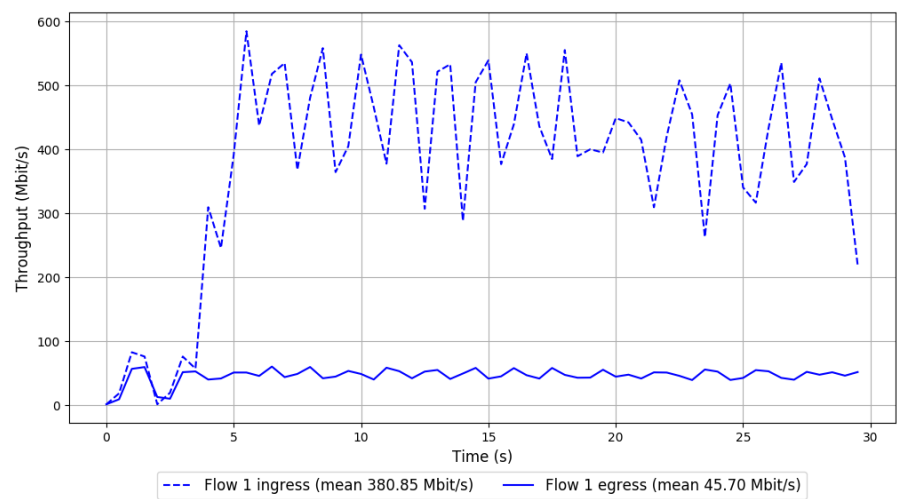


Run 10: Statistics of Verus

Start at: 2018-03-20 18:11:08
End at: 2018-03-20 18:11:38
Local clock offset: 3.383 ms
Remote clock offset: -1.948 ms

Below is generated by plot.py at 2018-03-20 18:44:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 45.70 Mbit/s
95th percentile per-packet one-way delay: 110.417 ms
Loss rate: 88.00%
-- Flow 1:
Average throughput: 45.70 Mbit/s
95th percentile per-packet one-way delay: 110.417 ms
Loss rate: 88.00%

Run 10: Report of Verus — Data Link

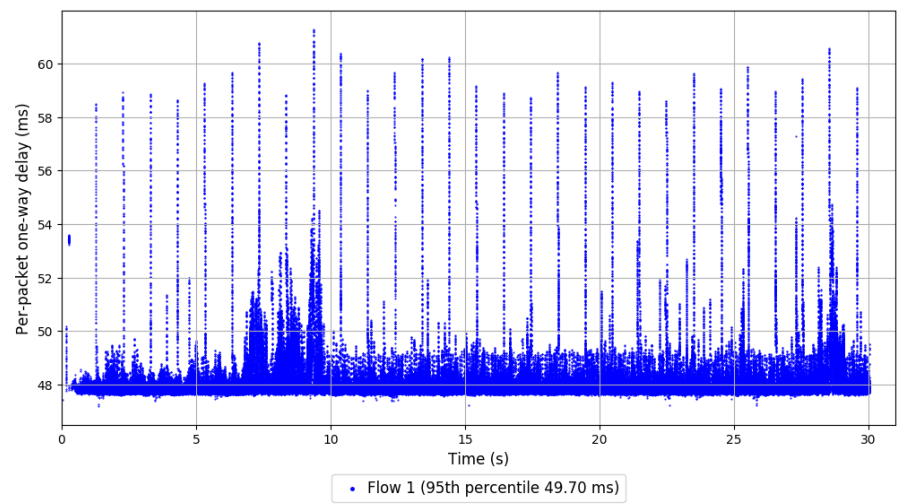
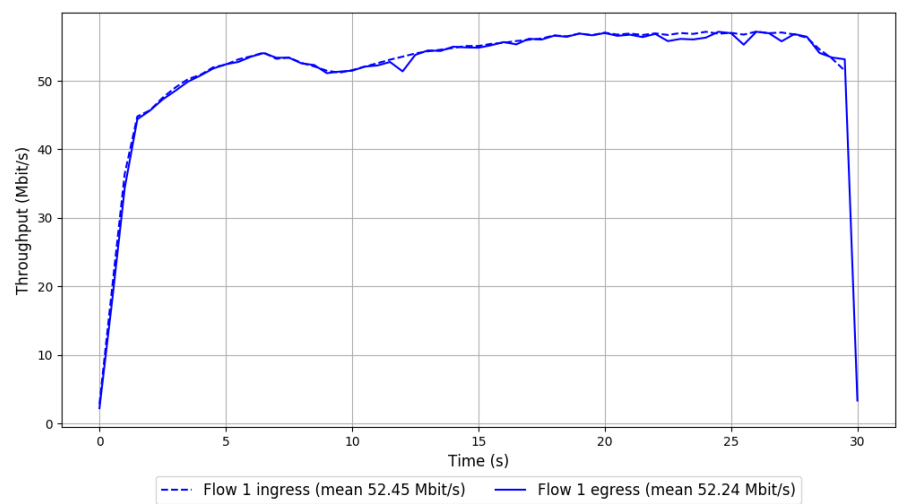


Run 1: Statistics of Copa

Start at: 2018-03-20 14:44:38
End at: 2018-03-20 14:45:08
Local clock offset: 4.451 ms
Remote clock offset: -22.092 ms

Below is generated by plot.py at 2018-03-20 18:44:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 52.24 Mbit/s
95th percentile per-packet one-way delay: 49.697 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 52.24 Mbit/s
95th percentile per-packet one-way delay: 49.697 ms
Loss rate: 0.41%

Run 1: Report of Copa — Data Link

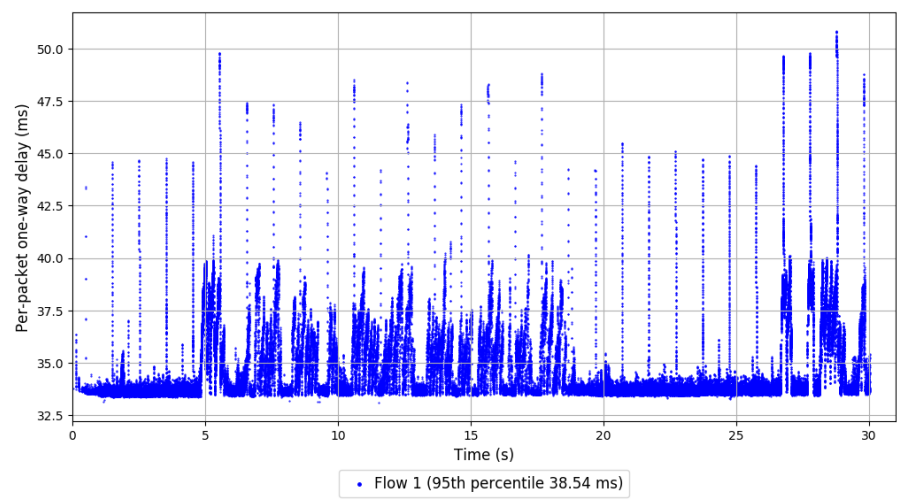
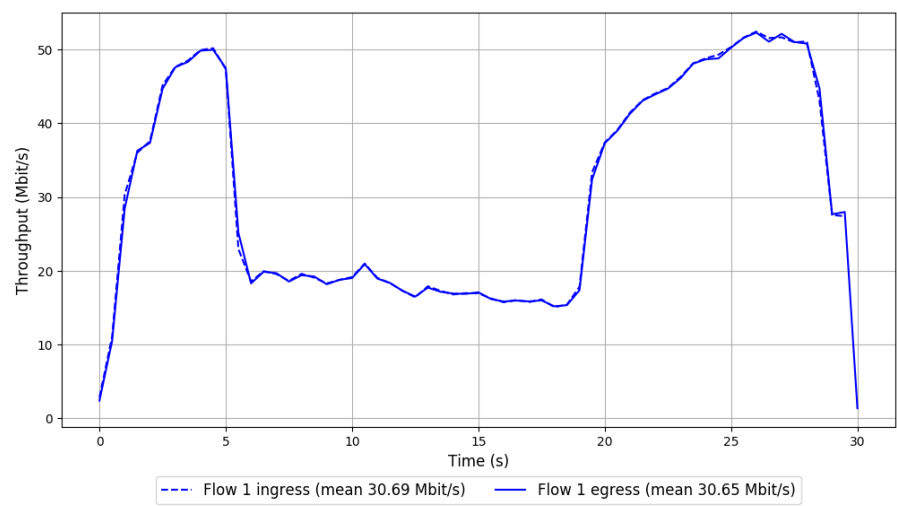


Run 2: Statistics of Copa

Start at: 2018-03-20 15:06:20
End at: 2018-03-20 15:06:50
Local clock offset: 3.785 ms
Remote clock offset: -37.651 ms

Below is generated by plot.py at 2018-03-20 18:44:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 30.65 Mbit/s
95th percentile per-packet one-way delay: 38.541 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 30.65 Mbit/s
95th percentile per-packet one-way delay: 38.541 ms
Loss rate: 0.11%

Run 2: Report of Copa — Data Link

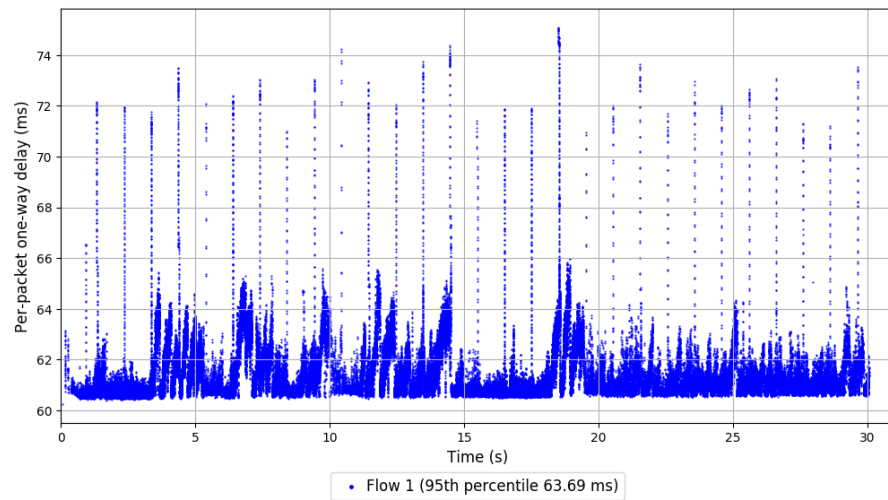
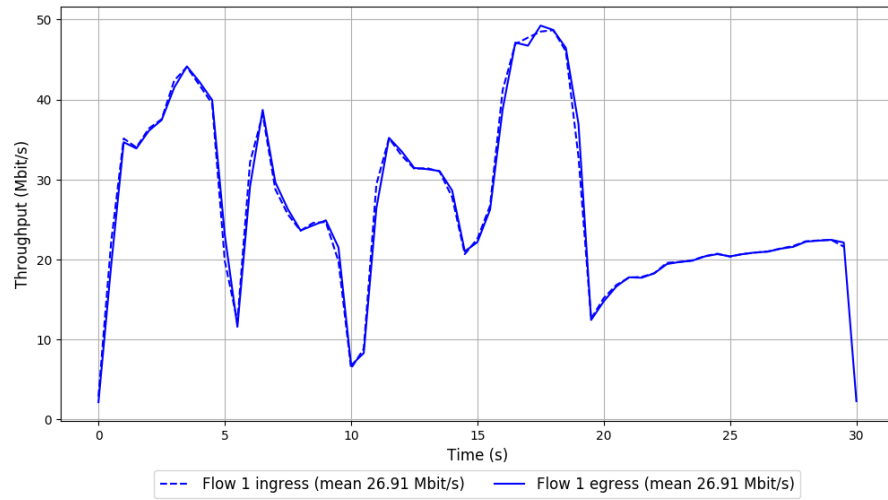


Run 3: Statistics of Copa

Start at: 2018-03-20 15:28:27
End at: 2018-03-20 15:28:57
Local clock offset: 2.044 ms
Remote clock offset: -15.085 ms

Below is generated by plot.py at 2018-03-20 18:44:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 26.91 Mbit/s
95th percentile per-packet one-way delay: 63.692 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 26.91 Mbit/s
95th percentile per-packet one-way delay: 63.692 ms
Loss rate: 0.00%

Run 3: Report of Copa — Data Link

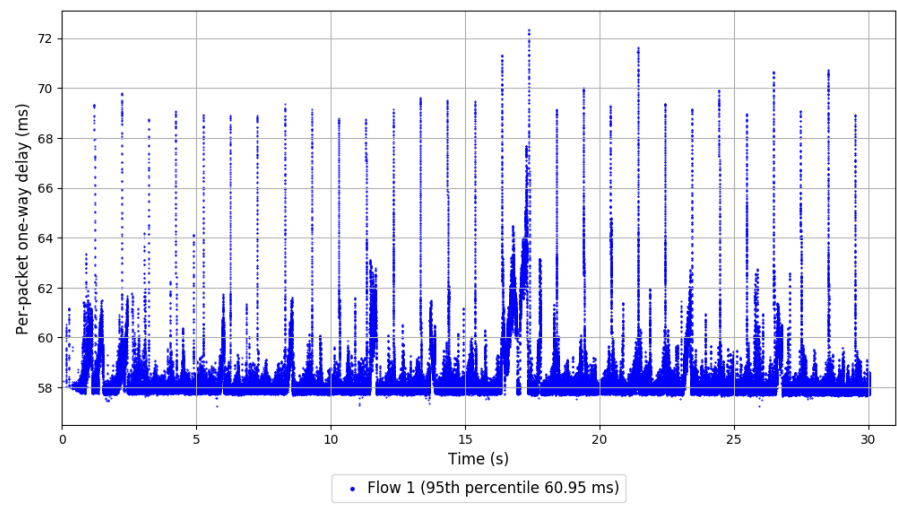
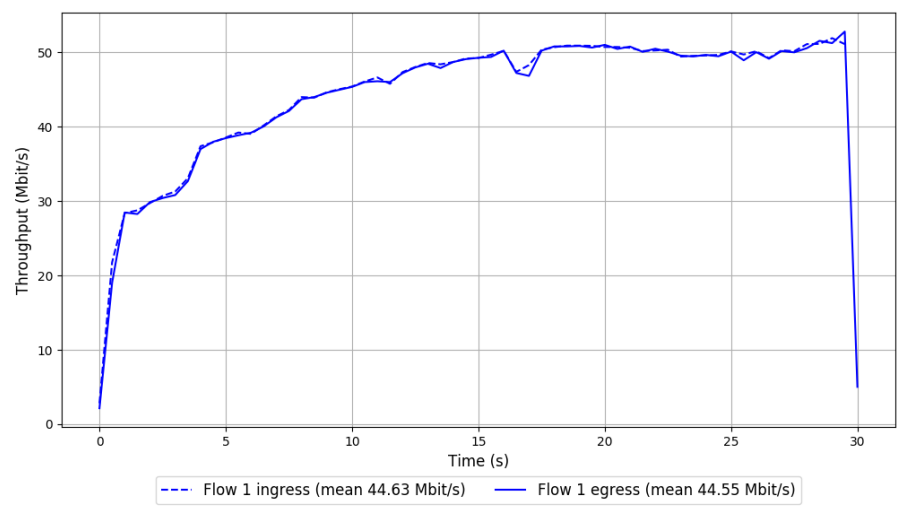


Run 4: Statistics of Copa

Start at: 2018-03-20 15:51:34
End at: 2018-03-20 15:52:04
Local clock offset: 7.274 ms
Remote clock offset: -9.238 ms

Below is generated by plot.py at 2018-03-20 18:44:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 44.55 Mbit/s
95th percentile per-packet one-way delay: 60.945 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 44.55 Mbit/s
95th percentile per-packet one-way delay: 60.945 ms
Loss rate: 0.19%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-03-20 16:13:35

End at: 2018-03-20 16:14:05

Local clock offset: 6.691 ms

Remote clock offset: 0.65 ms

Below is generated by plot.py at 2018-03-20 18:48:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.71 Mbit/s

95th percentile per-packet one-way delay: 83.908 ms

Loss rate: 82.80%

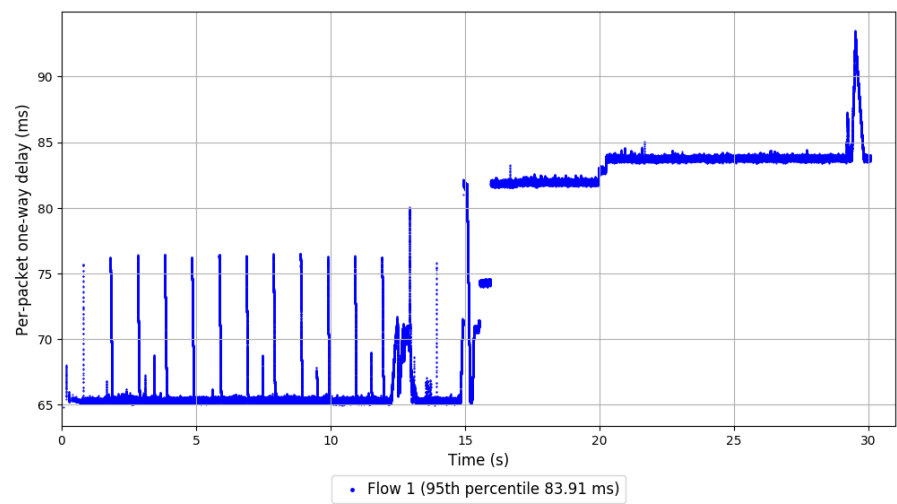
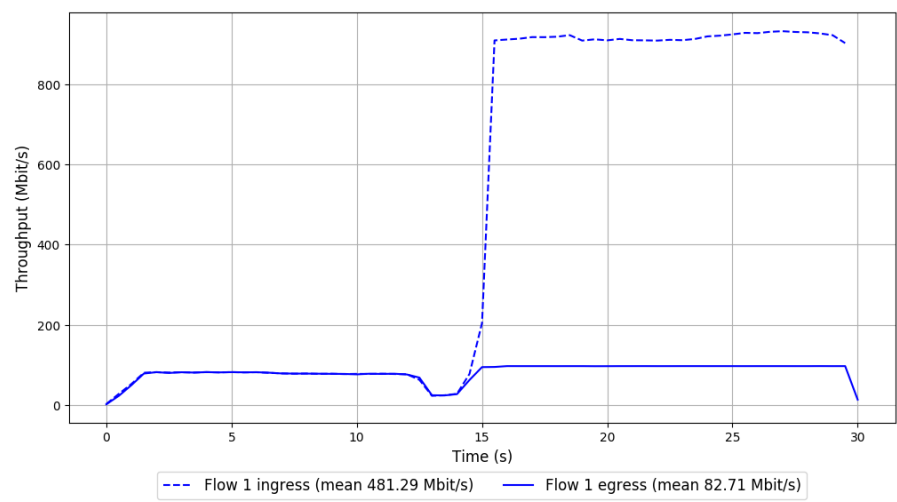
-- Flow 1:

Average throughput: 82.71 Mbit/s

95th percentile per-packet one-way delay: 83.908 ms

Loss rate: 82.80%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-03-20 16:36:59

End at: 2018-03-20 16:37:29

Local clock offset: 4.681 ms

Remote clock offset: 1.969 ms

Below is generated by plot.py at 2018-03-20 18:49:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.99 Mbit/s

95th percentile per-packet one-way delay: 121.272 ms

Loss rate: 82.33%

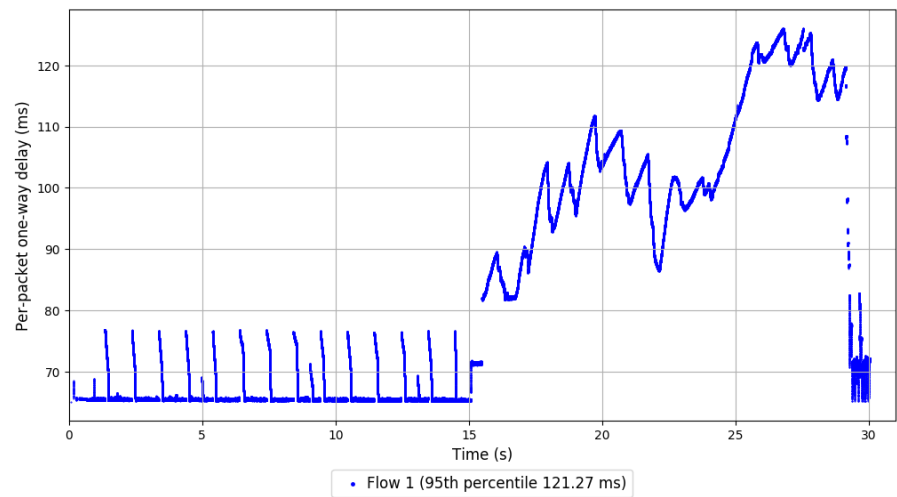
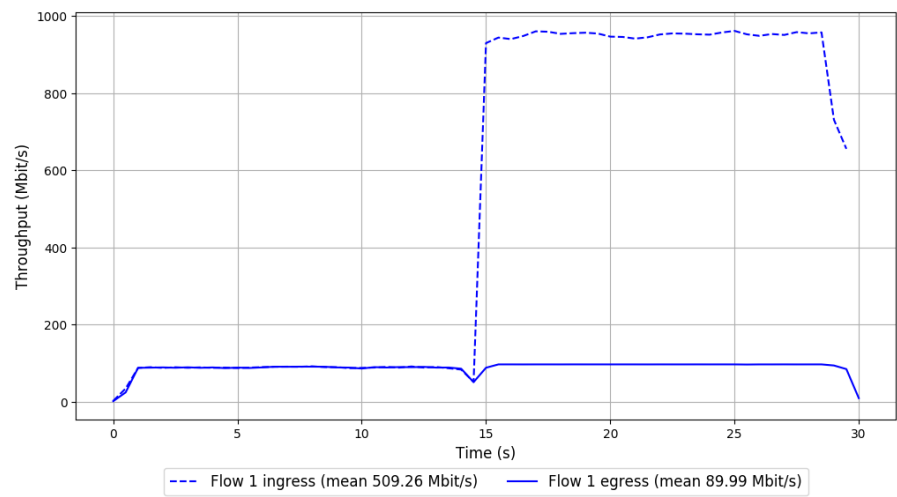
-- Flow 1:

Average throughput: 89.99 Mbit/s

95th percentile per-packet one-way delay: 121.272 ms

Loss rate: 82.33%

Run 6: Report of Copa — Data Link

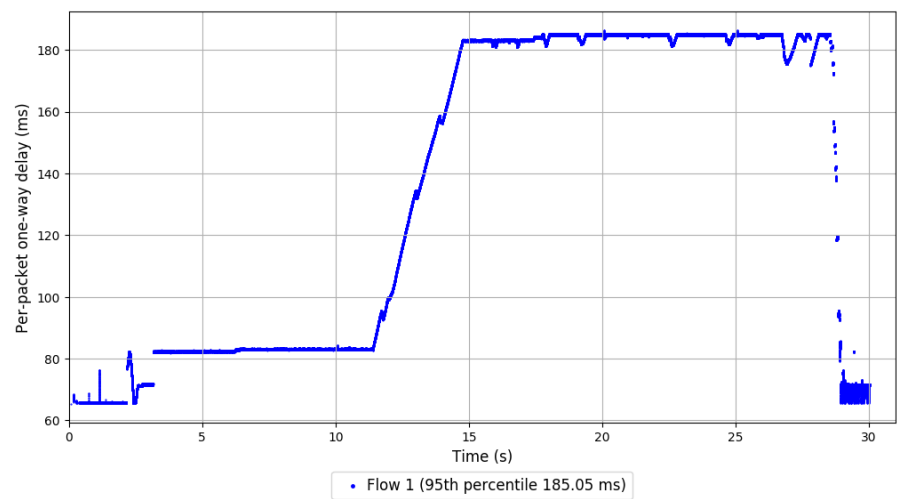
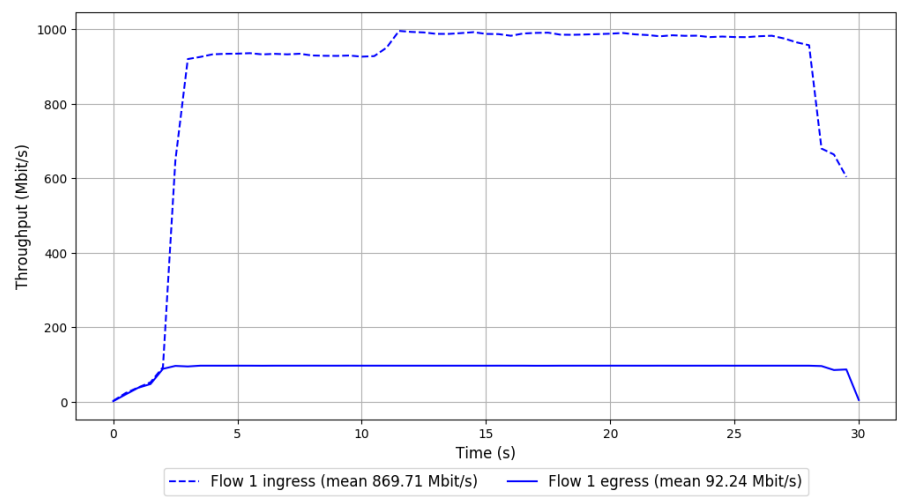


Run 7: Statistics of Copa

Start at: 2018-03-20 17:00:38
End at: 2018-03-20 17:01:08
Local clock offset: -0.581 ms
Remote clock offset: 0.086 ms

Below is generated by plot.py at 2018-03-20 18:52:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.24 Mbit/s
95th percentile per-packet one-way delay: 185.051 ms
Loss rate: 89.39%
-- Flow 1:
Average throughput: 92.24 Mbit/s
95th percentile per-packet one-way delay: 185.051 ms
Loss rate: 89.39%

Run 7: Report of Copa — Data Link

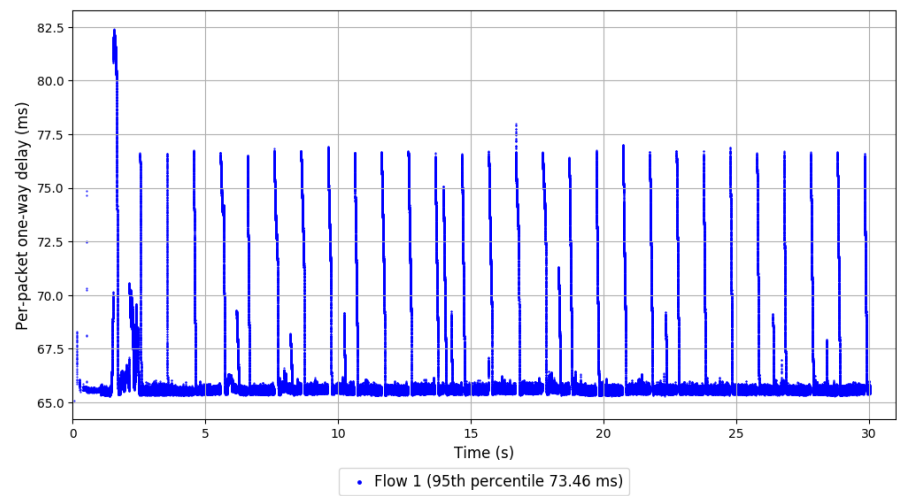
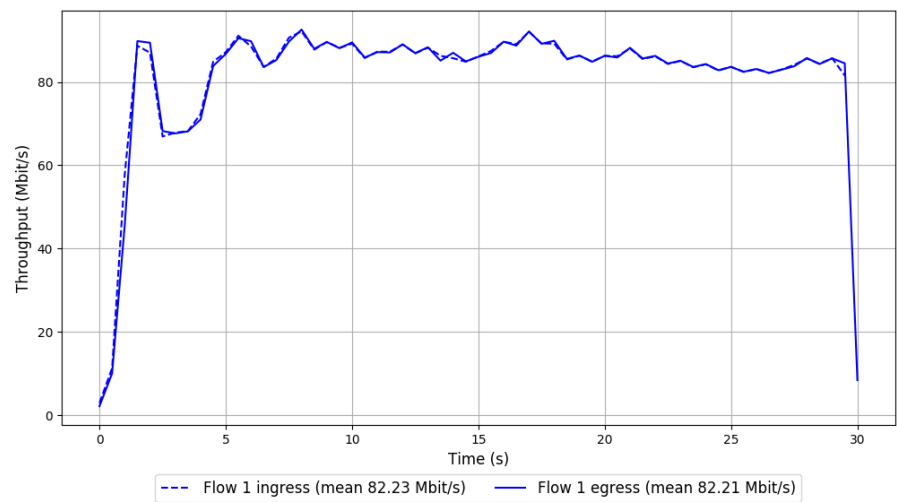


Run 8: Statistics of Copa

Start at: 2018-03-20 17:22:37
End at: 2018-03-20 17:23:07
Local clock offset: -0.428 ms
Remote clock offset: -0.382 ms

Below is generated by plot.py at 2018-03-20 18:52:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 82.21 Mbit/s
95th percentile per-packet one-way delay: 73.463 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 82.21 Mbit/s
95th percentile per-packet one-way delay: 73.463 ms
Loss rate: 0.01%

Run 8: Report of Copa — Data Link

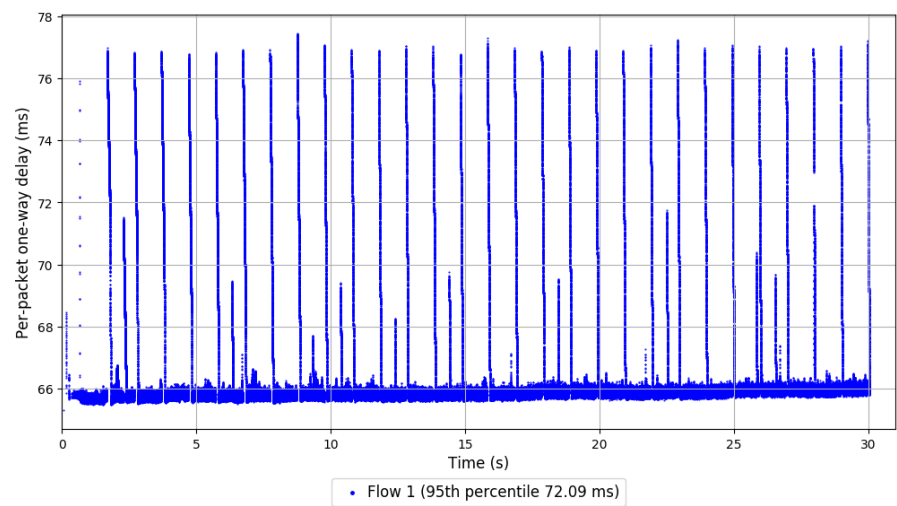
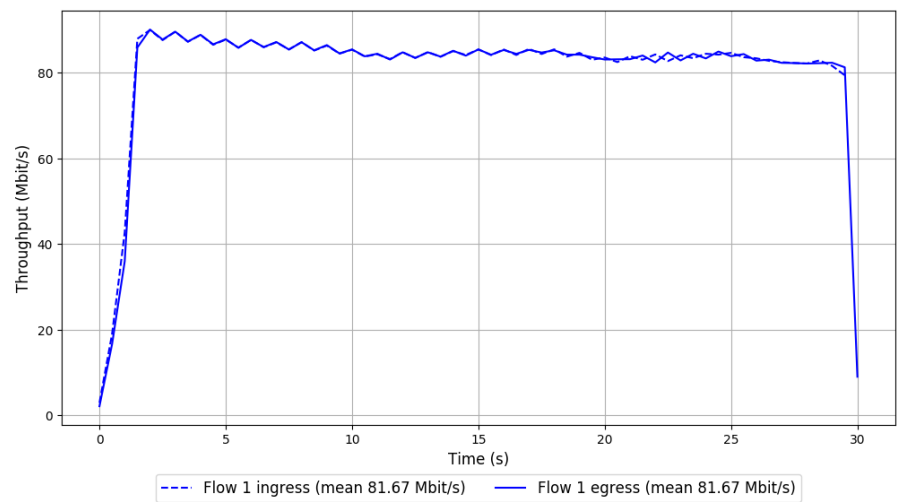


Run 9: Statistics of Copa

Start at: 2018-03-20 17:44:26
End at: 2018-03-20 17:44:56
Local clock offset: 0.564 ms
Remote clock offset: -0.688 ms

Below is generated by plot.py at 2018-03-20 18:52:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 81.67 Mbit/s
95th percentile per-packet one-way delay: 72.092 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 81.67 Mbit/s
95th percentile per-packet one-way delay: 72.092 ms
Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-03-20 18:08:33

End at: 2018-03-20 18:09:03

Local clock offset: 5.827 ms

Remote clock offset: -1.866 ms

Below is generated by plot.py at 2018-03-20 18:52:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.16 Mbit/s

95th percentile per-packet one-way delay: 73.408 ms

Loss rate: 0.01%

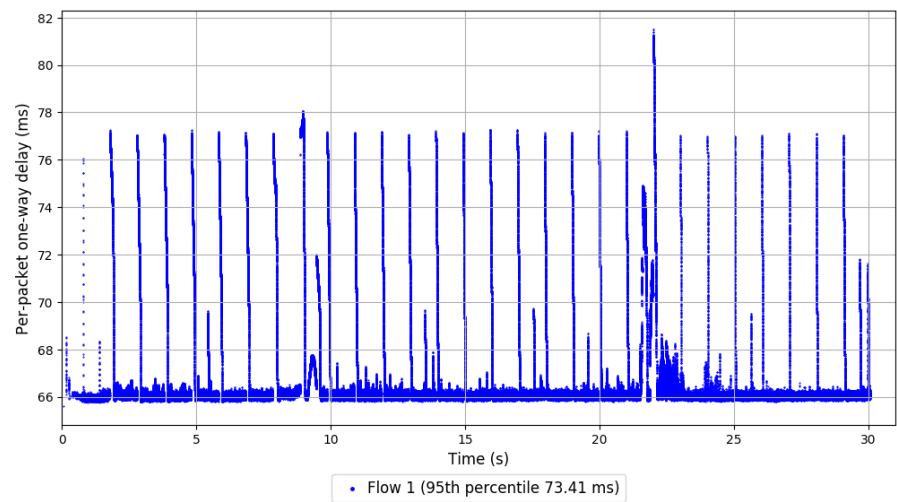
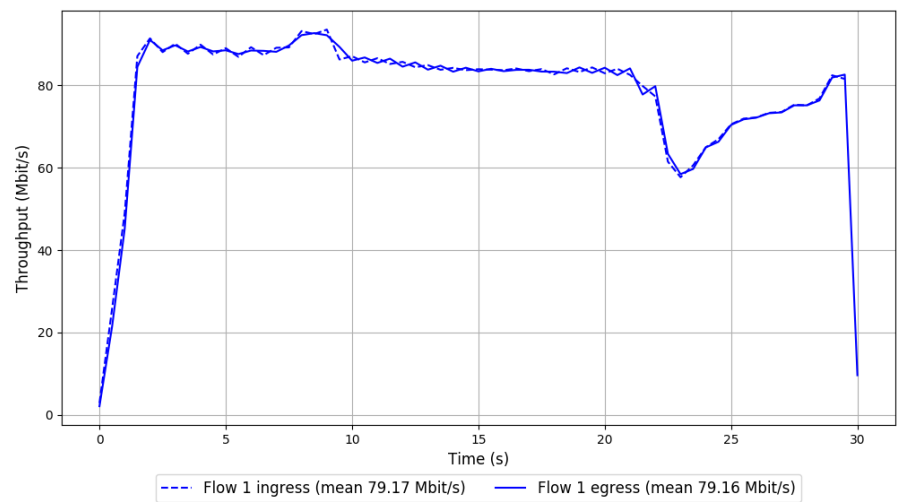
-- Flow 1:

Average throughput: 79.16 Mbit/s

95th percentile per-packet one-way delay: 73.408 ms

Loss rate: 0.01%

Run 10: Report of Copa — Data Link

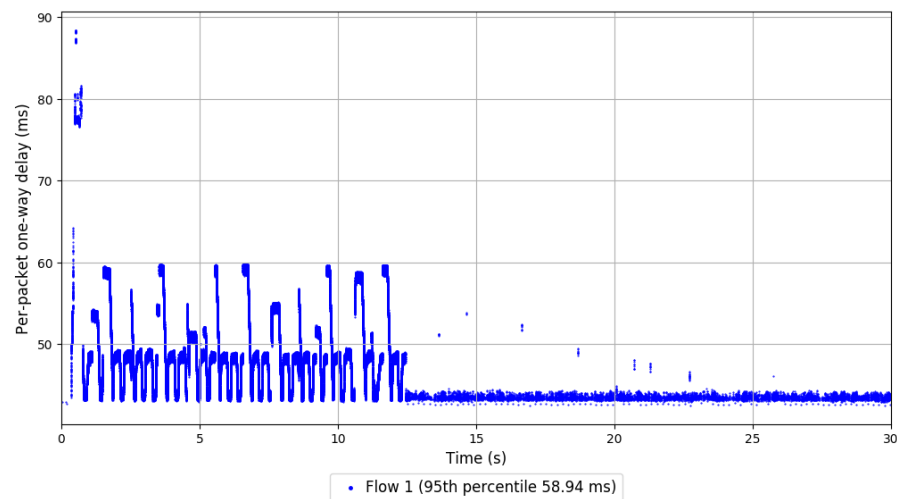
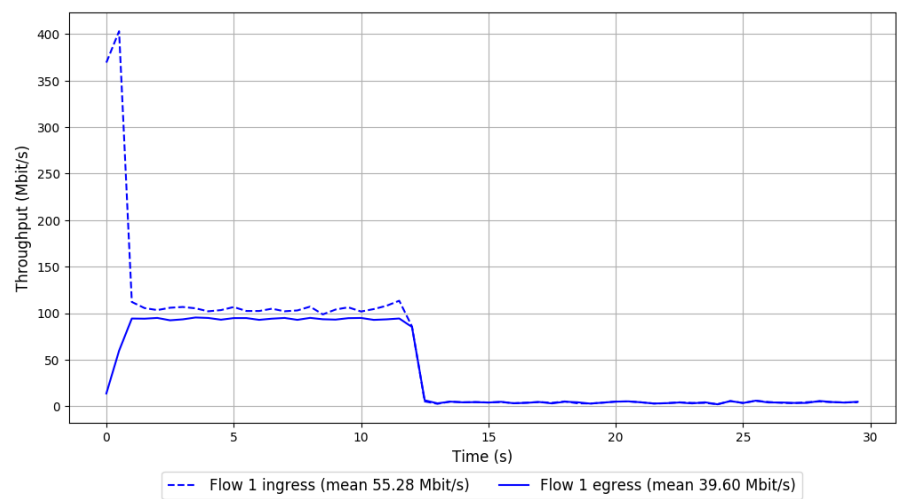


Run 1: Statistics of FillP

Start at: 2018-03-20 14:29:11
End at: 2018-03-20 14:29:41
Local clock offset: 5.158 ms
Remote clock offset: -27.46 ms

Below is generated by plot.py at 2018-03-20 18:52:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 39.60 Mbit/s
95th percentile per-packet one-way delay: 58.939 ms
Loss rate: 28.36%
-- Flow 1:
Average throughput: 39.60 Mbit/s
95th percentile per-packet one-way delay: 58.939 ms
Loss rate: 28.36%

Run 1: Report of FillP — Data Link

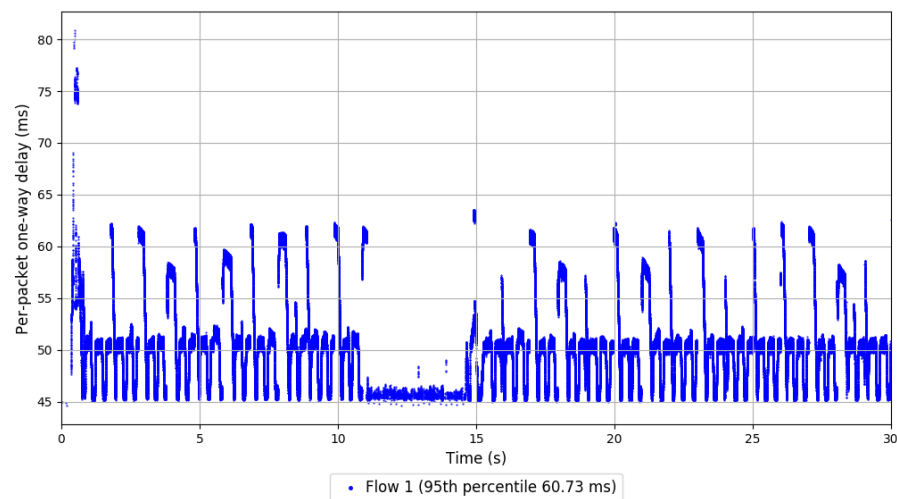
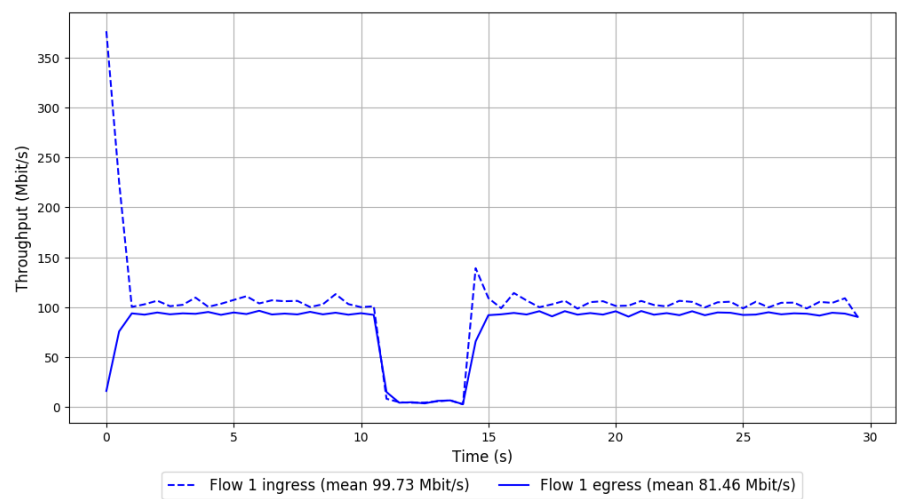


Run 2: Statistics of FillP

Start at: 2018-03-20 14:52:05
End at: 2018-03-20 14:52:35
Local clock offset: 4.413 ms
Remote clock offset: -24.607 ms

Below is generated by plot.py at 2018-03-20 18:52:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 81.46 Mbit/s
95th percentile per-packet one-way delay: 60.732 ms
Loss rate: 18.28%
-- Flow 1:
Average throughput: 81.46 Mbit/s
95th percentile per-packet one-way delay: 60.732 ms
Loss rate: 18.28%

Run 2: Report of FillP — Data Link

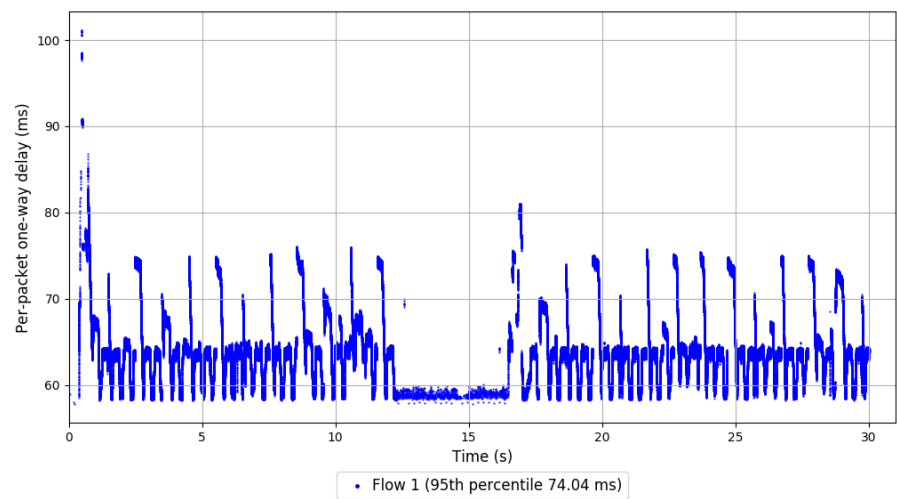
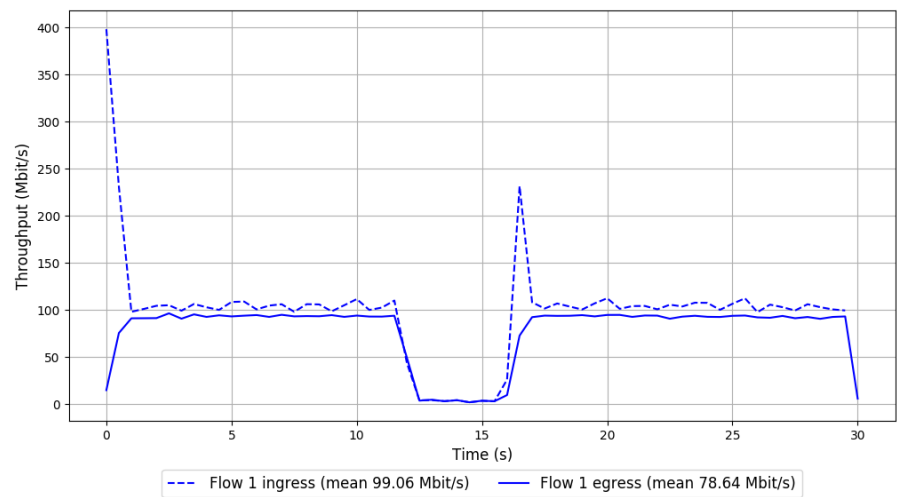


Run 3: Statistics of FillP

Start at: 2018-03-20 15:13:53
End at: 2018-03-20 15:14:23
Local clock offset: 3.53 ms
Remote clock offset: -14.232 ms

Below is generated by plot.py at 2018-03-20 18:52:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 78.64 Mbit/s
95th percentile per-packet one-way delay: 74.037 ms
Loss rate: 20.60%
-- Flow 1:
Average throughput: 78.64 Mbit/s
95th percentile per-packet one-way delay: 74.037 ms
Loss rate: 20.60%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-03-20 15:35:53

End at: 2018-03-20 15:36:23

Local clock offset: 6.194 ms

Remote clock offset: -6.548 ms

Below is generated by plot.py at 2018-03-20 18:52:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.42 Mbit/s

95th percentile per-packet one-way delay: 81.057 ms

Loss rate: 30.63%

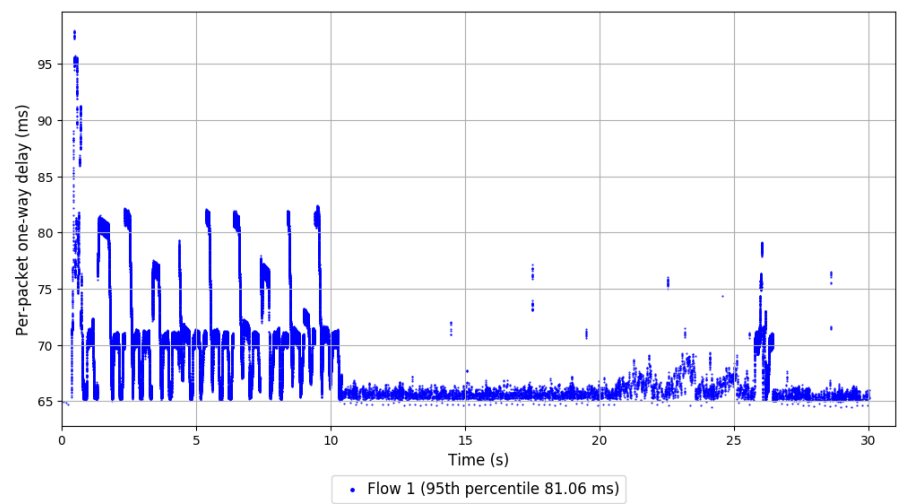
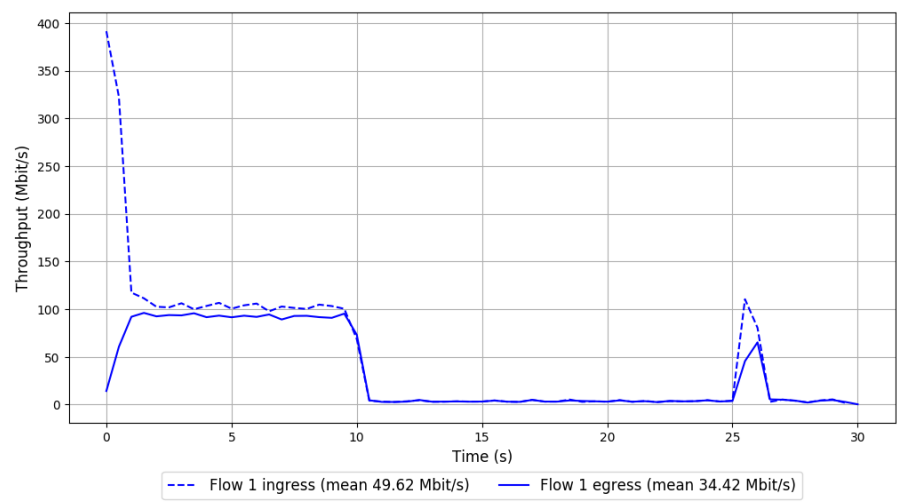
-- Flow 1:

Average throughput: 34.42 Mbit/s

95th percentile per-packet one-way delay: 81.057 ms

Loss rate: 30.63%

Run 4: Report of FillP — Data Link

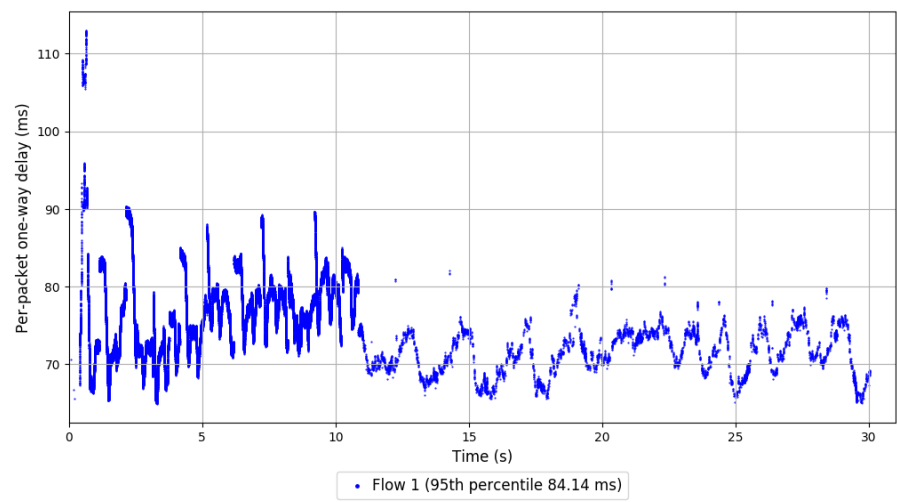
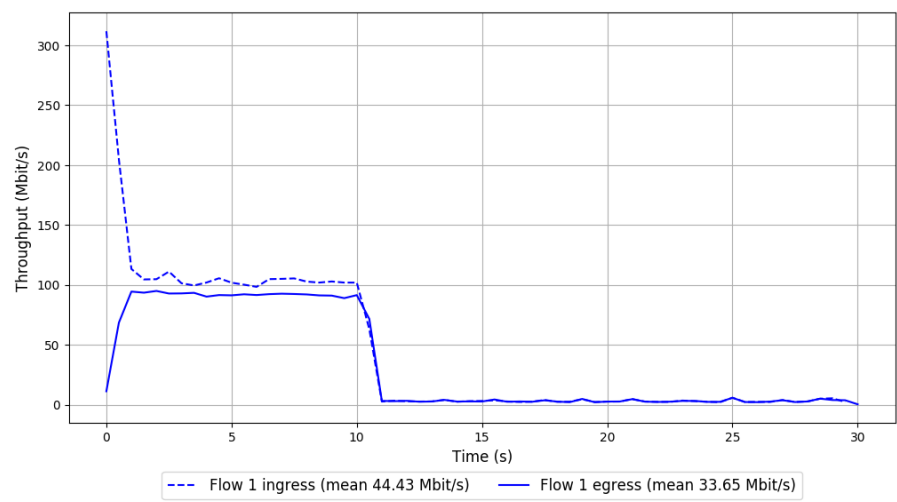


Run 5: Statistics of FillP

Start at: 2018-03-20 15:59:06
End at: 2018-03-20 15:59:36
Local clock offset: 8.073 ms
Remote clock offset: -6.806 ms

Below is generated by plot.py at 2018-03-20 18:52:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 33.65 Mbit/s
95th percentile per-packet one-way delay: 84.135 ms
Loss rate: 24.27%
-- Flow 1:
Average throughput: 33.65 Mbit/s
95th percentile per-packet one-way delay: 84.135 ms
Loss rate: 24.27%

Run 5: Report of FillP — Data Link

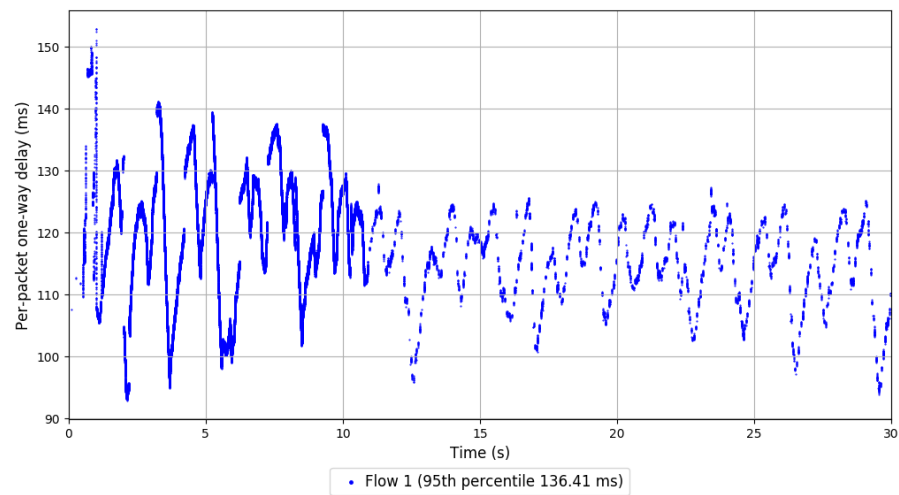
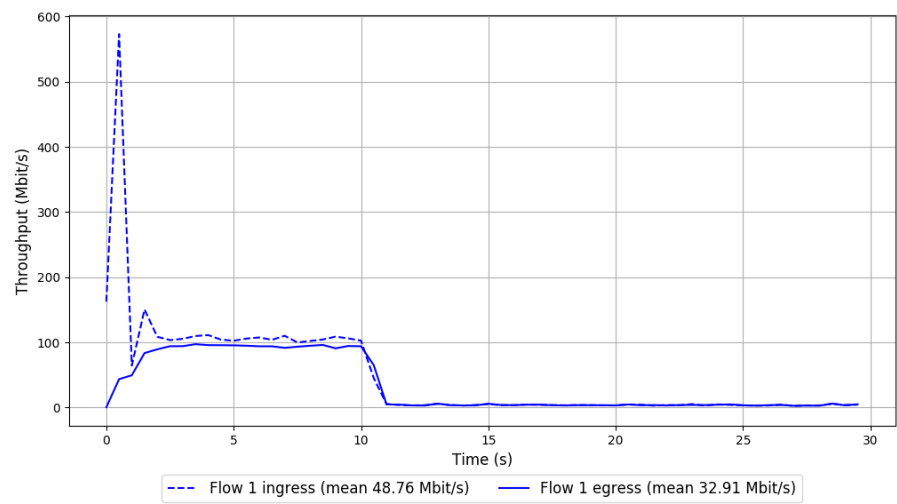


Run 6: Statistics of FillP

Start at: 2018-03-20 16:21:11
End at: 2018-03-20 16:21:41
Local clock offset: 6.253 ms
Remote clock offset: -6.785 ms

Below is generated by plot.py at 2018-03-20 18:52:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 32.91 Mbit/s
95th percentile per-packet one-way delay: 136.414 ms
Loss rate: 32.61%
-- Flow 1:
Average throughput: 32.91 Mbit/s
95th percentile per-packet one-way delay: 136.414 ms
Loss rate: 32.61%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-03-20 16:46:20

End at: 2018-03-20 16:46:50

Local clock offset: 1.457 ms

Remote clock offset: 1.433 ms

Below is generated by plot.py at 2018-03-20 18:52:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.30 Mbit/s

95th percentile per-packet one-way delay: 81.271 ms

Loss rate: 16.83%

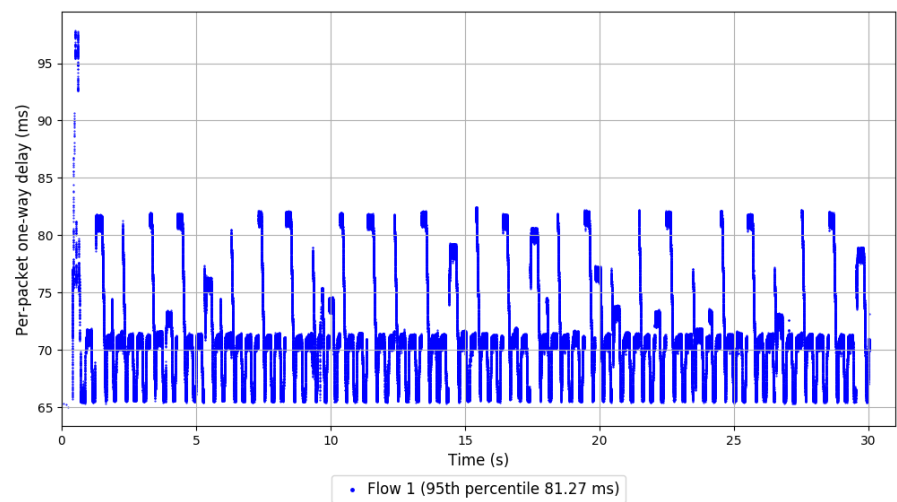
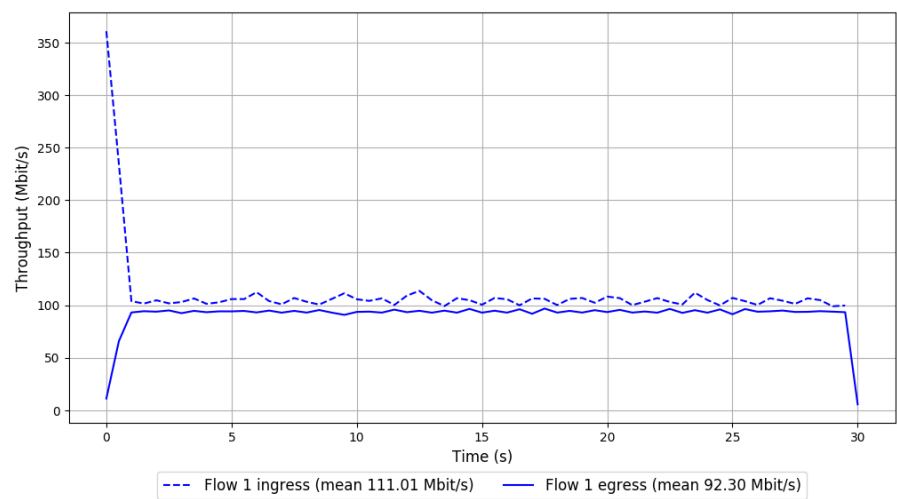
-- Flow 1:

Average throughput: 92.30 Mbit/s

95th percentile per-packet one-way delay: 81.271 ms

Loss rate: 16.83%

Run 7: Report of FillP — Data Link

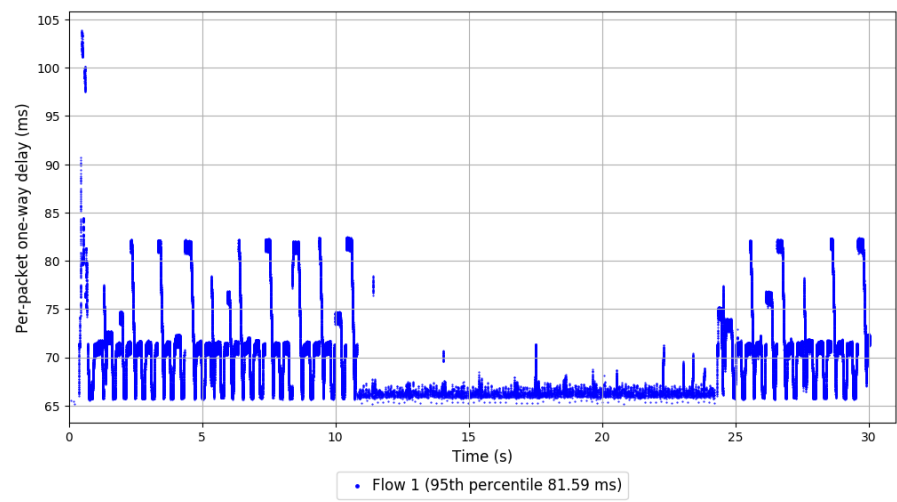
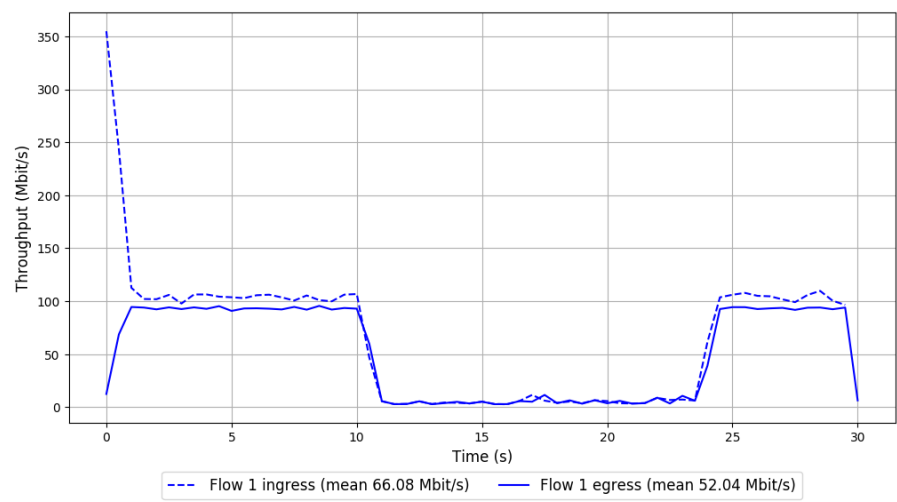


Run 8: Statistics of FillP

Start at: 2018-03-20 17:08:21
End at: 2018-03-20 17:08:51
Local clock offset: -1.218 ms
Remote clock offset: -0.079 ms

Below is generated by plot.py at 2018-03-20 18:52:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 52.04 Mbit/s
95th percentile per-packet one-way delay: 81.592 ms
Loss rate: 21.22%
-- Flow 1:
Average throughput: 52.04 Mbit/s
95th percentile per-packet one-way delay: 81.592 ms
Loss rate: 21.22%

Run 8: Report of FillP — Data Link

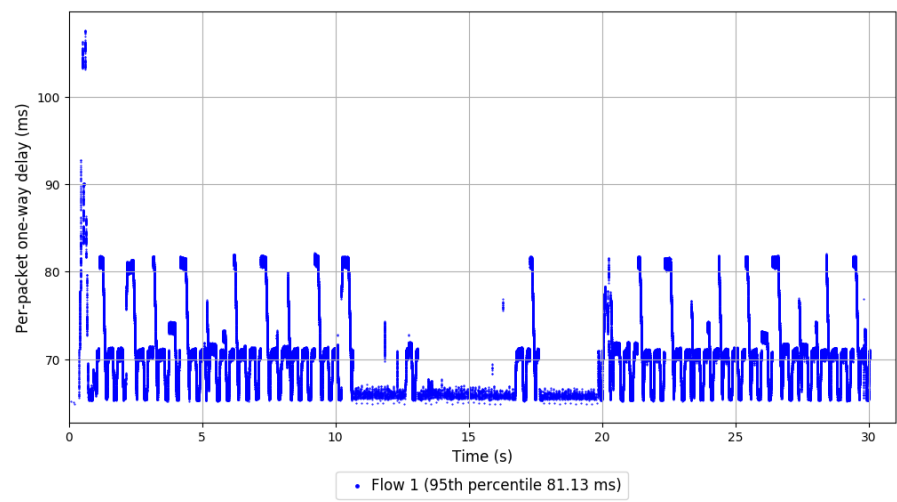
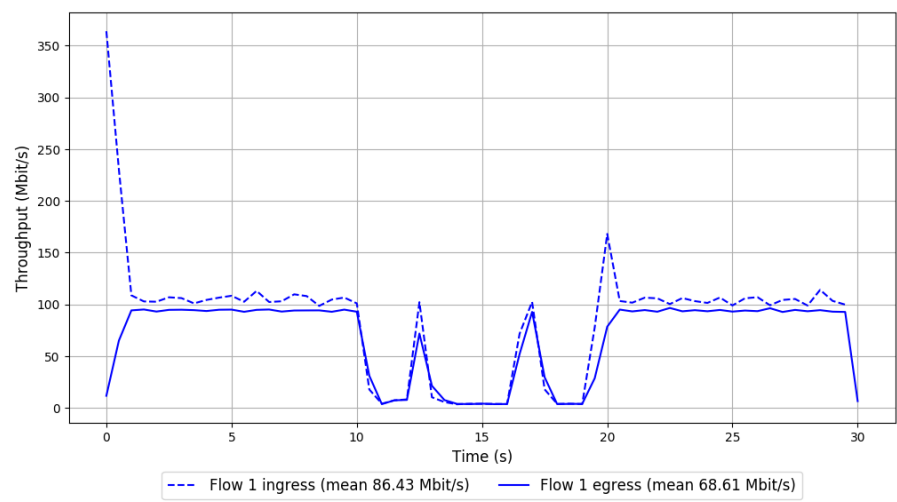


Run 9: Statistics of FillP

Start at: 2018-03-20 17:30:04
End at: 2018-03-20 17:30:34
Local clock offset: -0.927 ms
Remote clock offset: -0.517 ms

Below is generated by plot.py at 2018-03-20 18:52:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 68.61 Mbit/s
95th percentile per-packet one-way delay: 81.128 ms
Loss rate: 20.60%
-- Flow 1:
Average throughput: 68.61 Mbit/s
95th percentile per-packet one-way delay: 81.128 ms
Loss rate: 20.60%

Run 9: Report of FillP — Data Link

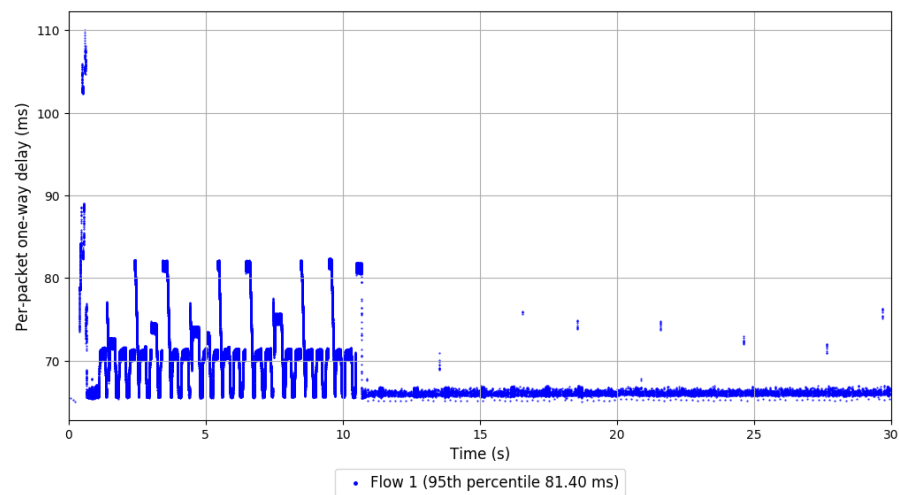
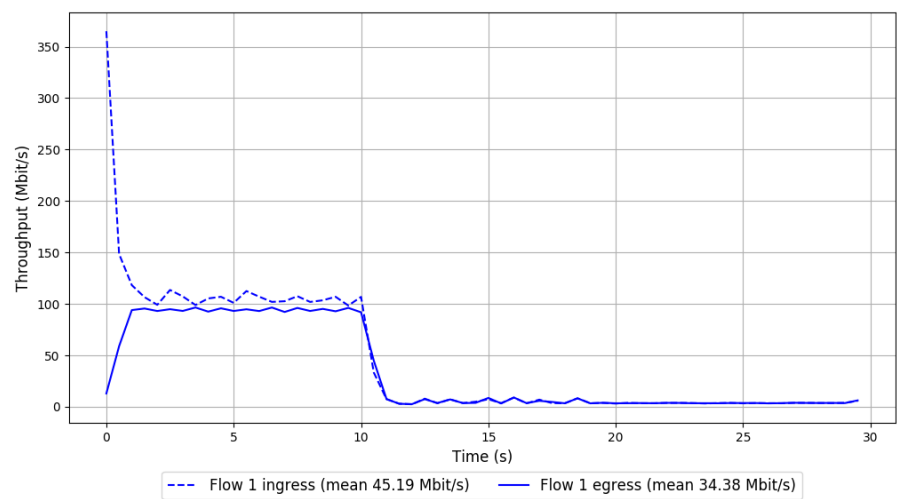


Run 10: Statistics of FillP

Start at: 2018-03-20 17:53:39
End at: 2018-03-20 17:54:09
Local clock offset: 3.673 ms
Remote clock offset: -0.963 ms

Below is generated by plot.py at 2018-03-20 18:52:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 34.38 Mbit/s
95th percentile per-packet one-way delay: 81.398 ms
Loss rate: 23.91%
-- Flow 1:
Average throughput: 34.38 Mbit/s
95th percentile per-packet one-way delay: 81.398 ms
Loss rate: 23.91%

Run 10: Report of FillP — Data Link



Run 1: Statistics of Indigo-1-32

Start at: 2018-03-20 14:26:43

End at: 2018-03-20 14:27:13

Local clock offset: 5.476 ms

Remote clock offset: -21.072 ms

Below is generated by plot.py at 2018-03-20 18:52:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.38 Mbit/s

95th percentile per-packet one-way delay: 62.815 ms

Loss rate: 2.88%

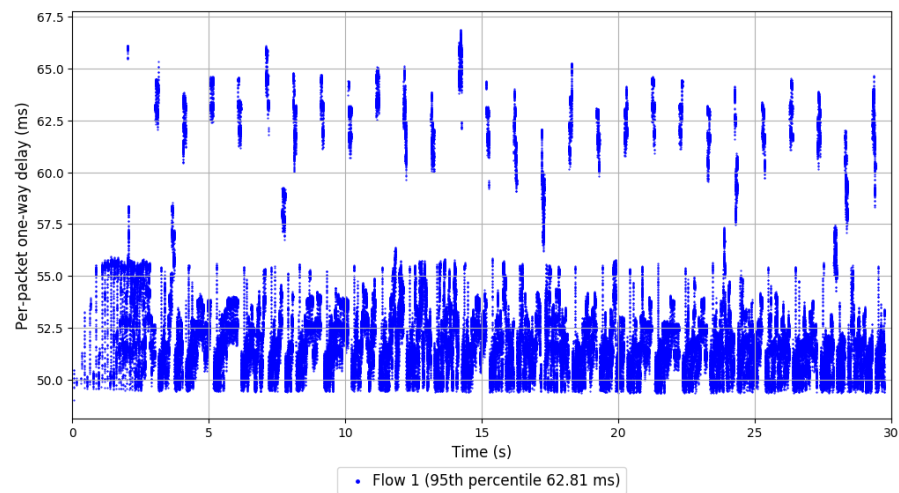
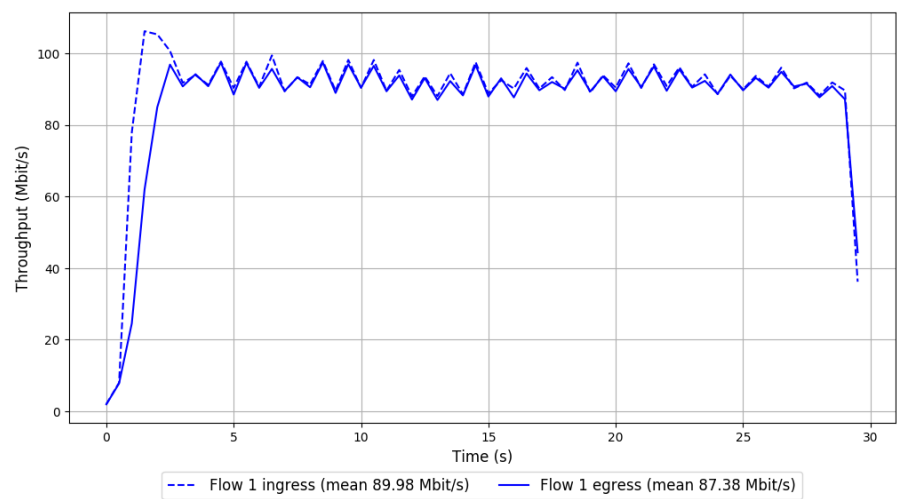
-- Flow 1:

Average throughput: 87.38 Mbit/s

95th percentile per-packet one-way delay: 62.815 ms

Loss rate: 2.88%

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-03-20 14:49:37

End at: 2018-03-20 14:50:07

Local clock offset: 3.735 ms

Remote clock offset: -21.138 ms

Below is generated by plot.py at 2018-03-20 18:52:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.70 Mbit/s

95th percentile per-packet one-way delay: 61.996 ms

Loss rate: 3.29%

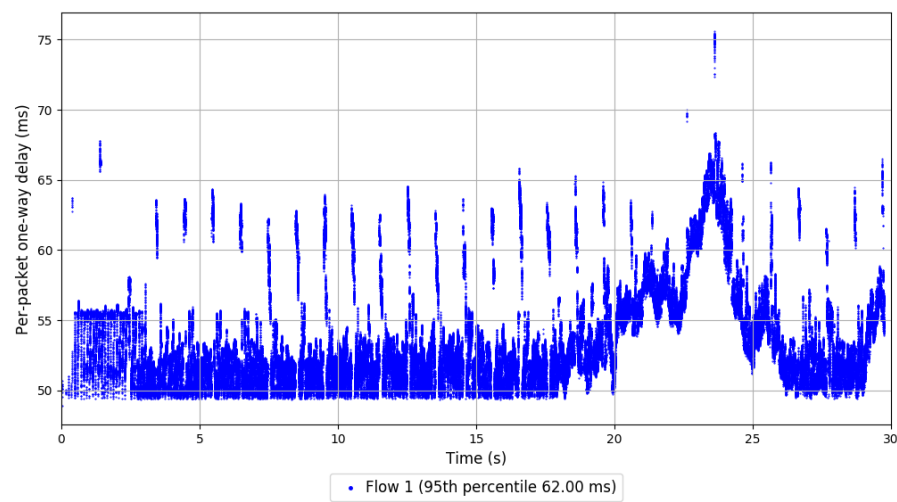
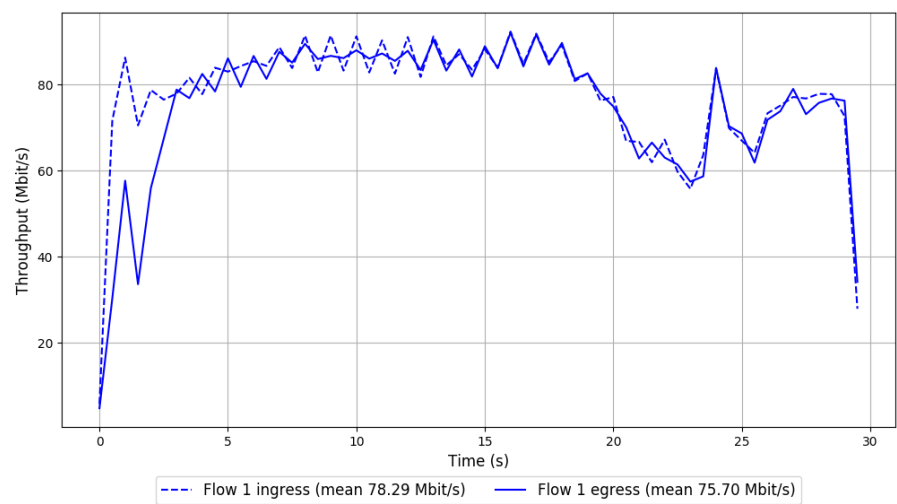
-- Flow 1:

Average throughput: 75.70 Mbit/s

95th percentile per-packet one-way delay: 61.996 ms

Loss rate: 3.29%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-03-20 15:11:15

End at: 2018-03-20 15:11:45

Local clock offset: 3.4 ms

Remote clock offset: -21.5 ms

Below is generated by plot.py at 2018-03-20 18:52:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.37 Mbit/s

95th percentile per-packet one-way delay: 71.116 ms

Loss rate: 7.25%

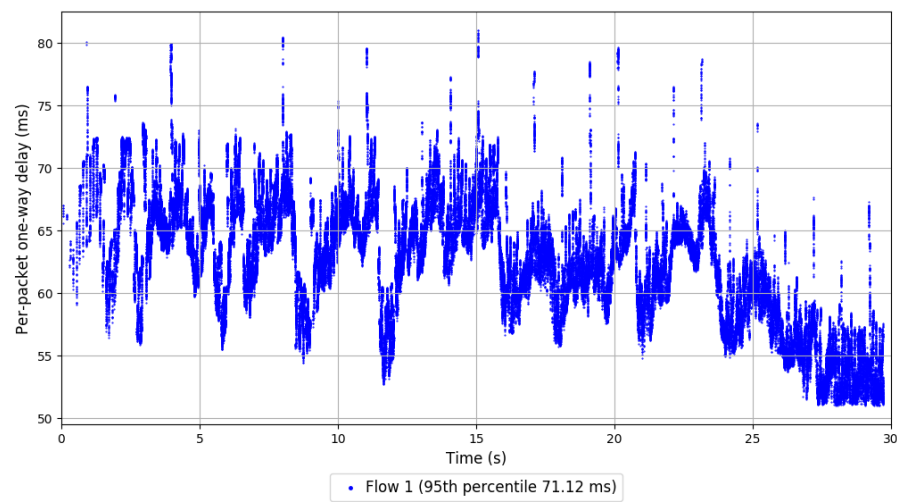
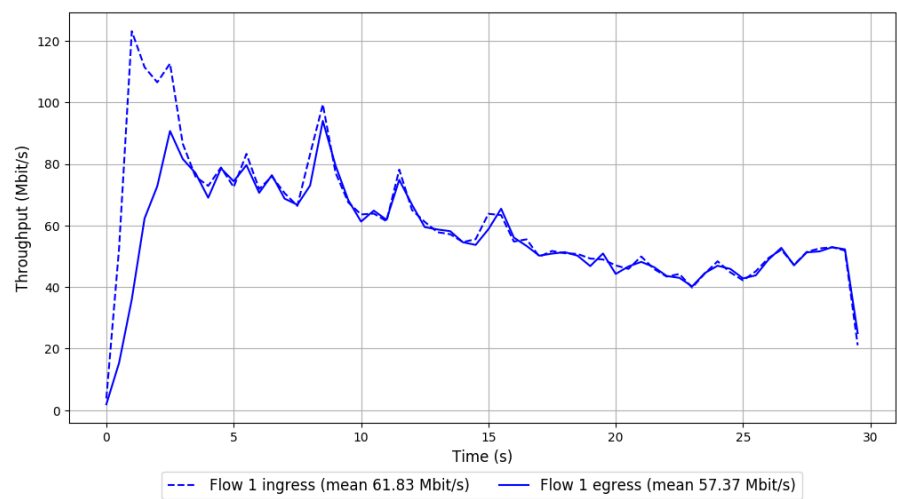
-- Flow 1:

Average throughput: 57.37 Mbit/s

95th percentile per-packet one-way delay: 71.116 ms

Loss rate: 7.25%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-03-20 15:33:25

End at: 2018-03-20 15:33:55

Local clock offset: 5.934 ms

Remote clock offset: -10.436 ms

Below is generated by plot.py at 2018-03-20 18:52:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.16 Mbit/s

95th percentile per-packet one-way delay: 74.675 ms

Loss rate: 4.79%

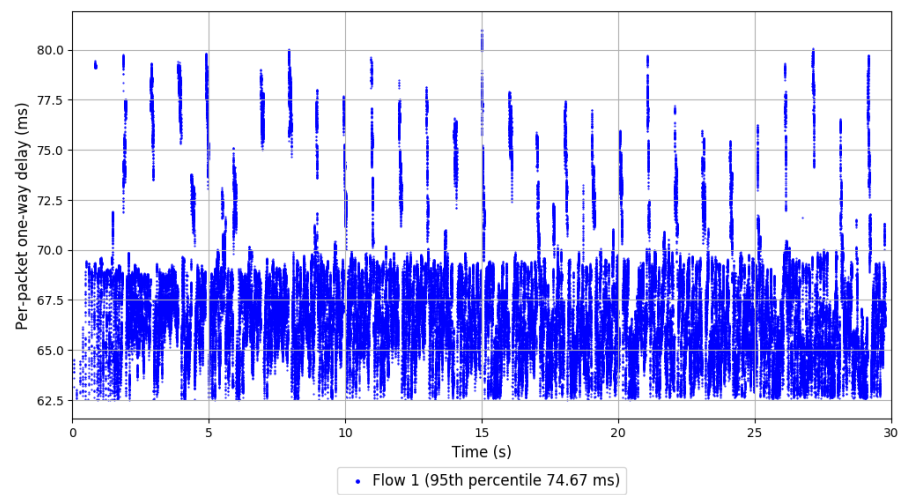
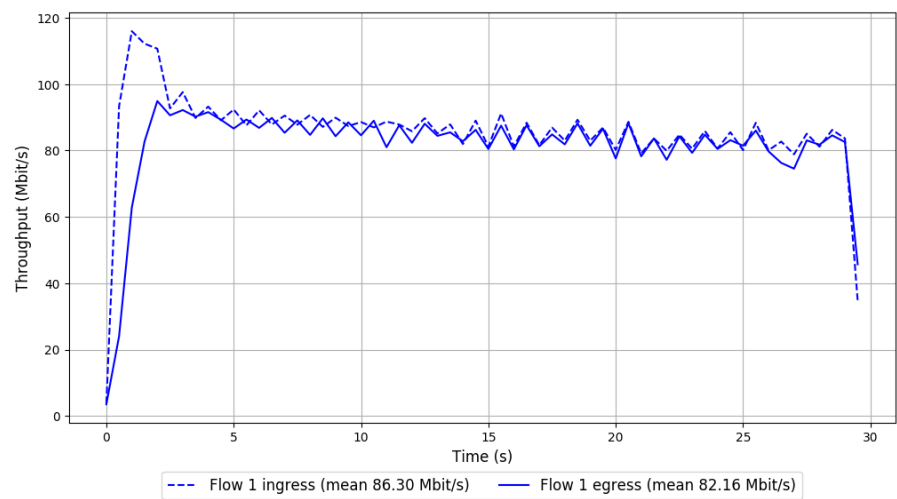
-- Flow 1:

Average throughput: 82.16 Mbit/s

95th percentile per-packet one-way delay: 74.675 ms

Loss rate: 4.79%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-03-20 15:56:38

End at: 2018-03-20 15:57:08

Local clock offset: 7.816 ms

Remote clock offset: -8.54 ms

Below is generated by plot.py at 2018-03-20 18:52:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.74 Mbit/s

95th percentile per-packet one-way delay: 69.101 ms

Loss rate: 5.09%

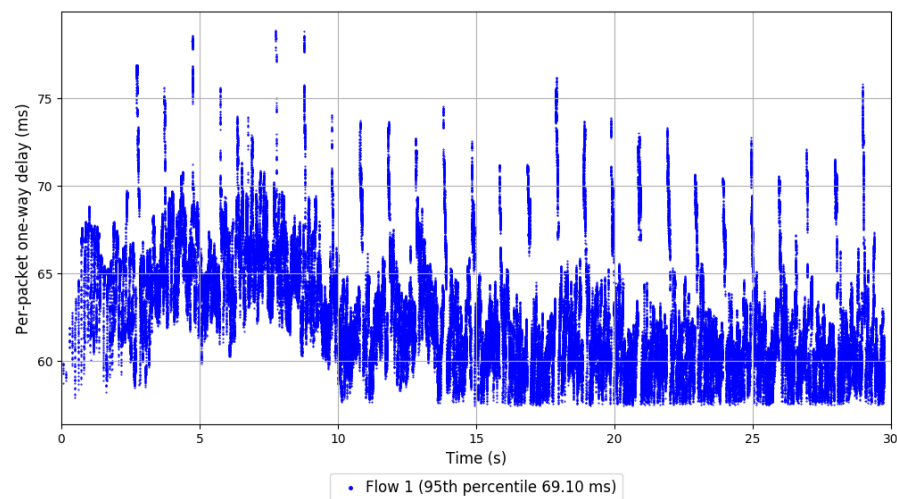
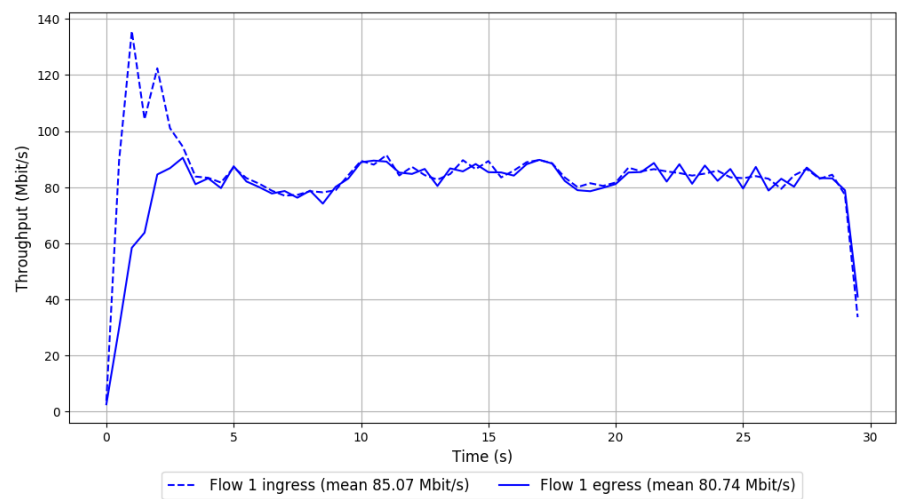
-- Flow 1:

Average throughput: 80.74 Mbit/s

95th percentile per-packet one-way delay: 69.101 ms

Loss rate: 5.09%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-03-20 16:18:42

End at: 2018-03-20 16:19:12

Local clock offset: 3.476 ms

Remote clock offset: 1.103 ms

Below is generated by plot.py at 2018-03-20 18:52:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.56 Mbit/s

95th percentile per-packet one-way delay: 83.296 ms

Loss rate: 6.16%

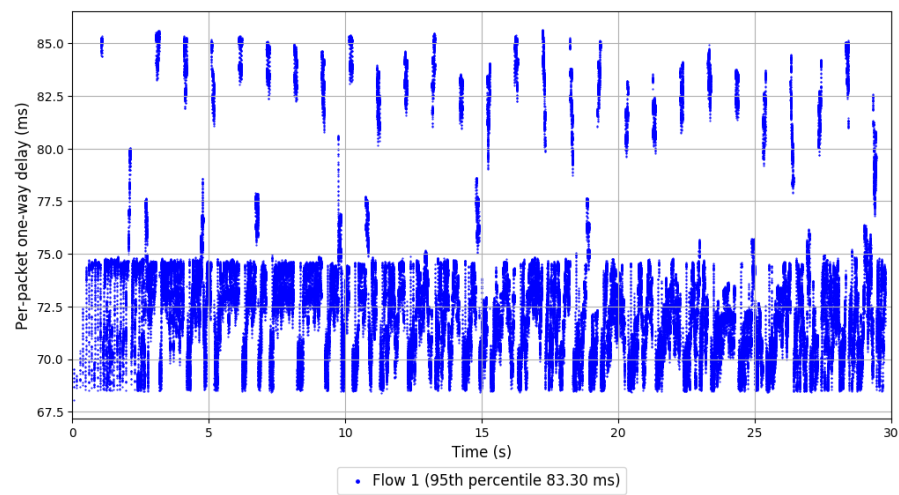
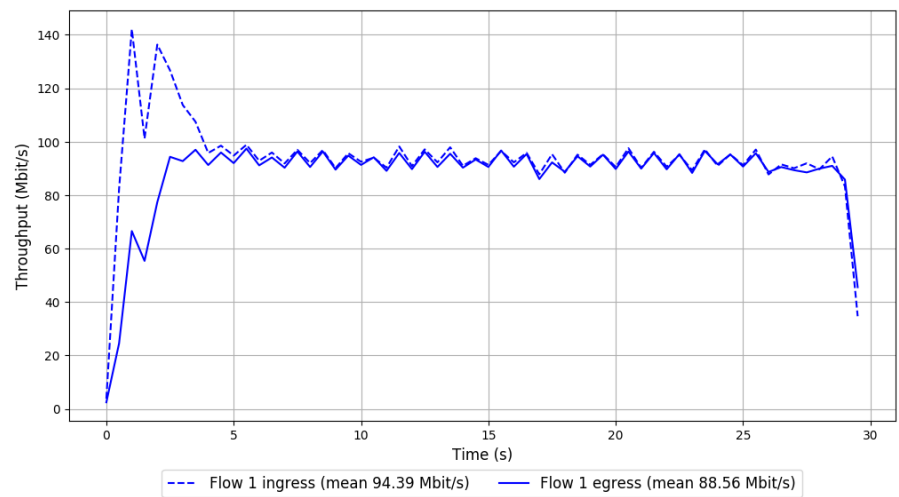
-- Flow 1:

Average throughput: 88.56 Mbit/s

95th percentile per-packet one-way delay: 83.296 ms

Loss rate: 6.16%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-03-20 16:43:18

End at: 2018-03-20 16:43:48

Local clock offset: 2.197 ms

Remote clock offset: 2.197 ms

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

Figure is missing

Figure is missing

Run 8: Statistics of Indigo-1-32

Start at: 2018-03-20 17:05:53

End at: 2018-03-20 17:06:23

Local clock offset: -3.815 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2018-03-20 18:52:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.31 Mbit/s

95th percentile per-packet one-way delay: 79.894 ms

Loss rate: 3.81%

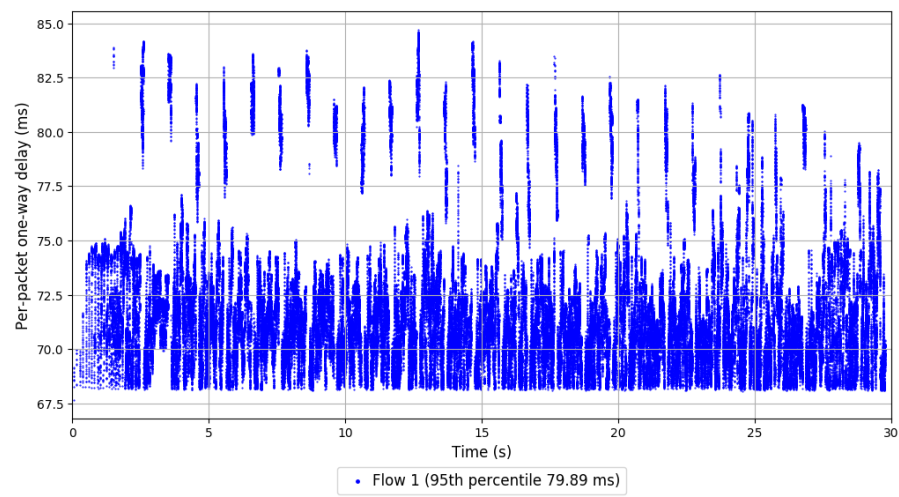
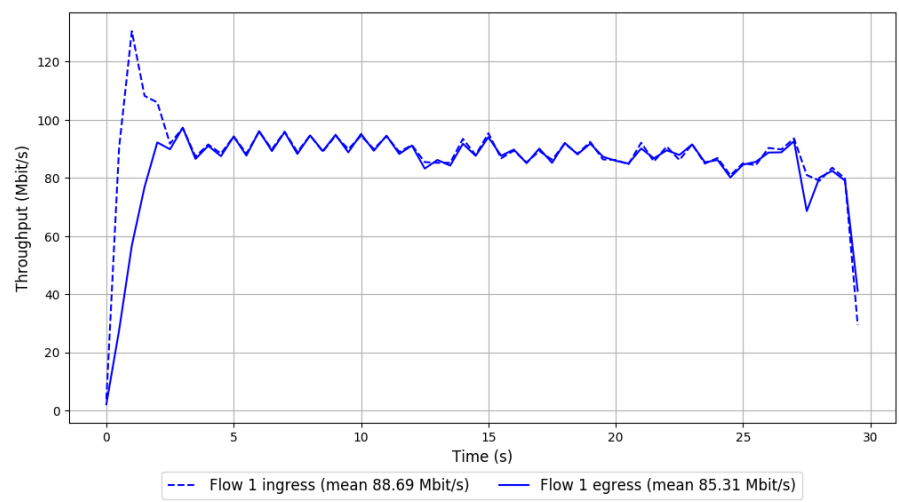
-- Flow 1:

Average throughput: 85.31 Mbit/s

95th percentile per-packet one-way delay: 79.894 ms

Loss rate: 3.81%

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

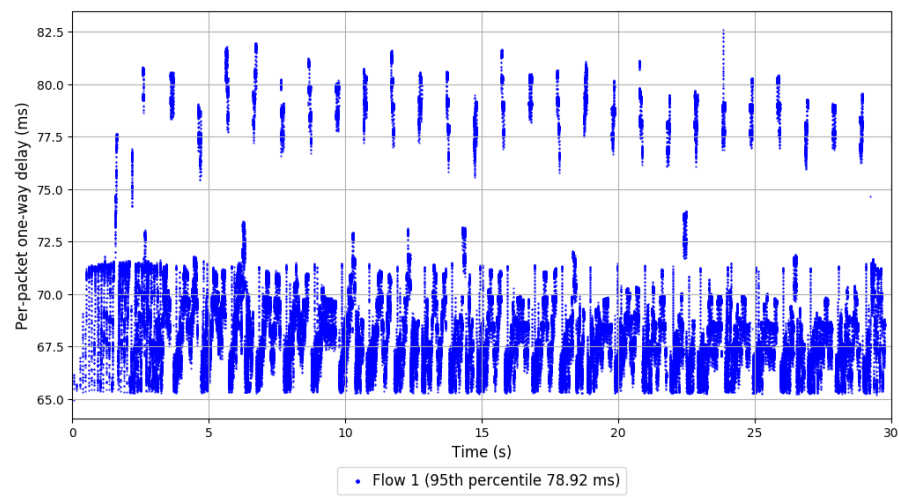
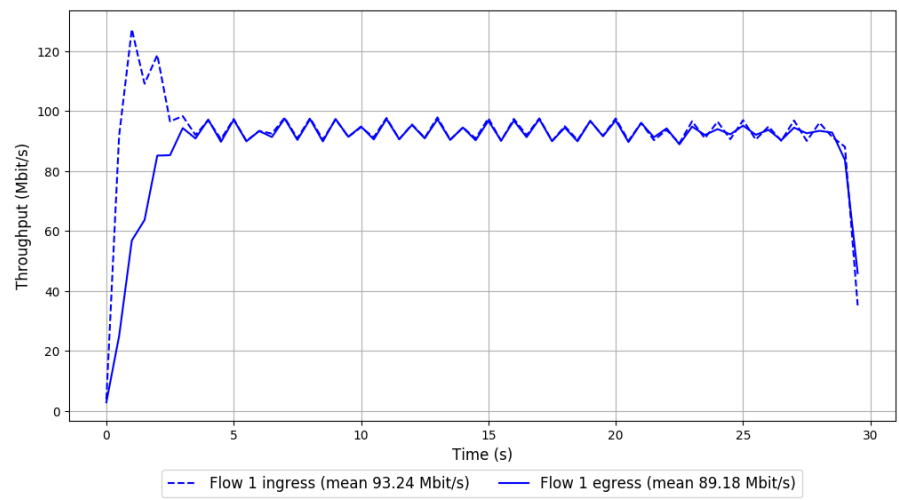


Run 9: Statistics of Indigo-1-32

Start at: 2018-03-20 17:27:36
End at: 2018-03-20 17:28:06
Local clock offset: -0.676 ms
Remote clock offset: -0.473 ms

Below is generated by plot.py at 2018-03-20 18:52:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.18 Mbit/s
95th percentile per-packet one-way delay: 78.925 ms
Loss rate: 4.35%
-- Flow 1:
Average throughput: 89.18 Mbit/s
95th percentile per-packet one-way delay: 78.925 ms
Loss rate: 4.35%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-03-20 17:51:02

End at: 2018-03-20 17:51:33

Local clock offset: 3.22 ms

Remote clock offset: -0.683 ms

Below is generated by plot.py at 2018-03-20 18:52:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.34 Mbit/s

95th percentile per-packet one-way delay: 81.853 ms

Loss rate: 15.26%

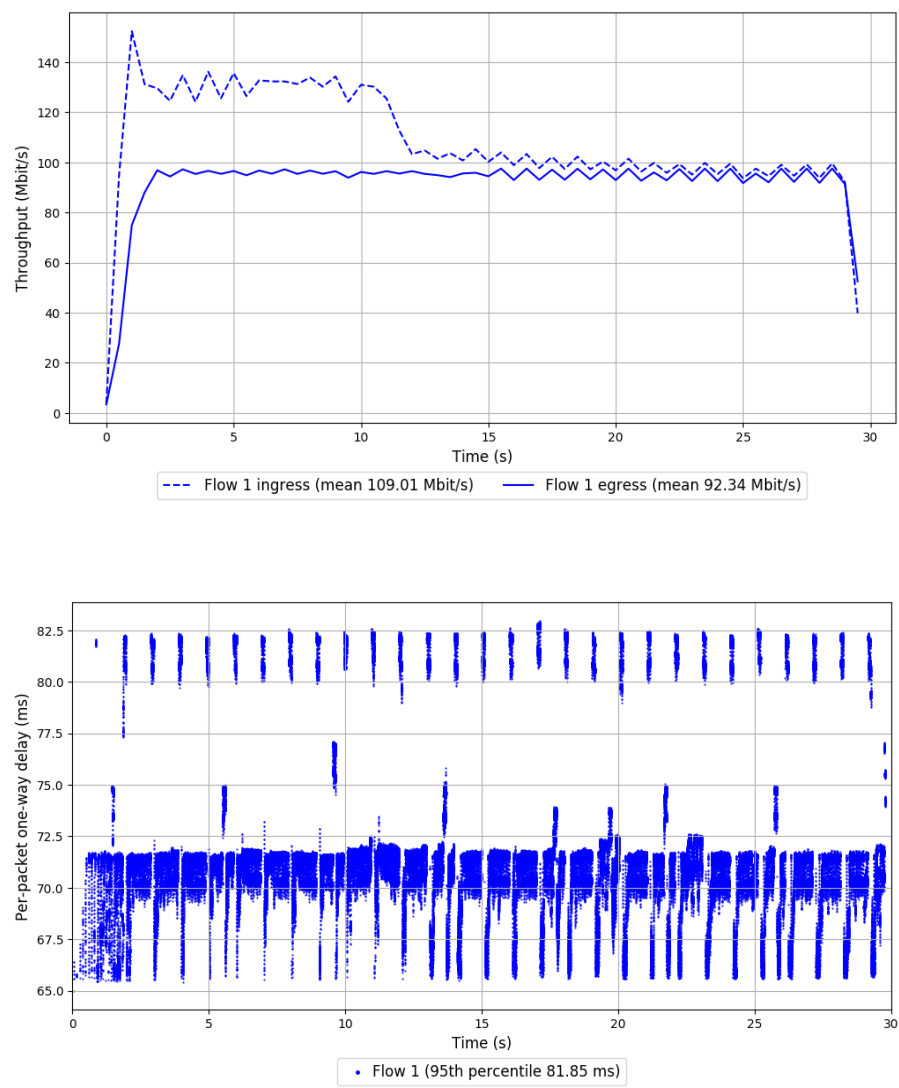
-- Flow 1:

Average throughput: 92.34 Mbit/s

95th percentile per-packet one-way delay: 81.853 ms

Loss rate: 15.26%

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

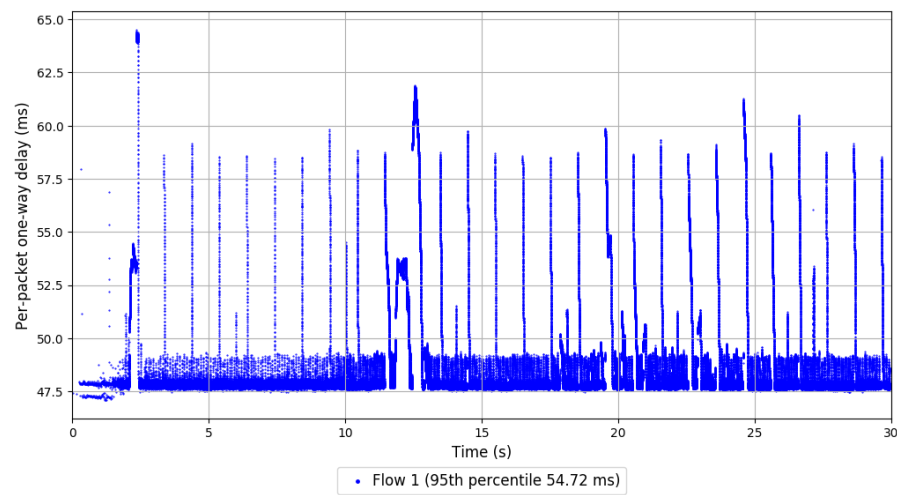
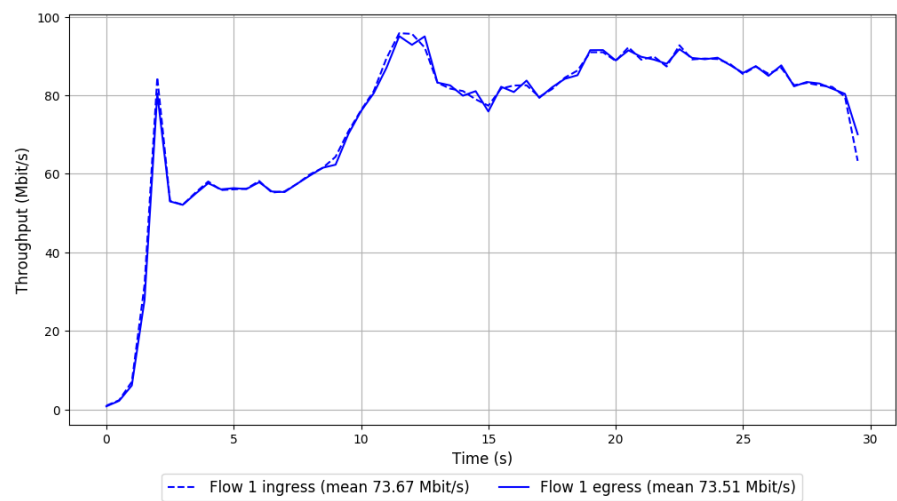


Run 1: Statistics of Vivace-latency

Start at: 2018-03-20 14:35:06
End at: 2018-03-20 14:35:36
Local clock offset: 4.896 ms
Remote clock offset: -22.148 ms

Below is generated by plot.py at 2018-03-20 18:52:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 73.51 Mbit/s
95th percentile per-packet one-way delay: 54.719 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 73.51 Mbit/s
95th percentile per-packet one-way delay: 54.719 ms
Loss rate: 0.22%

Run 1: Report of Vivace-latency — Data Link

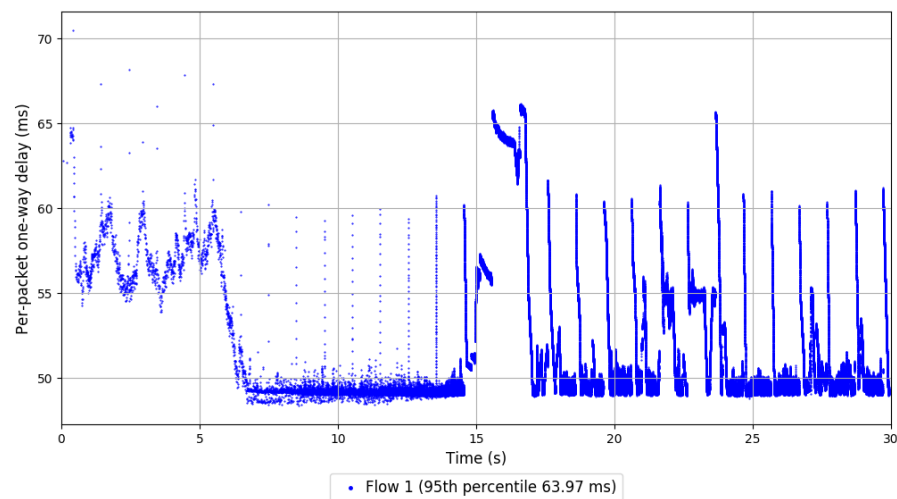
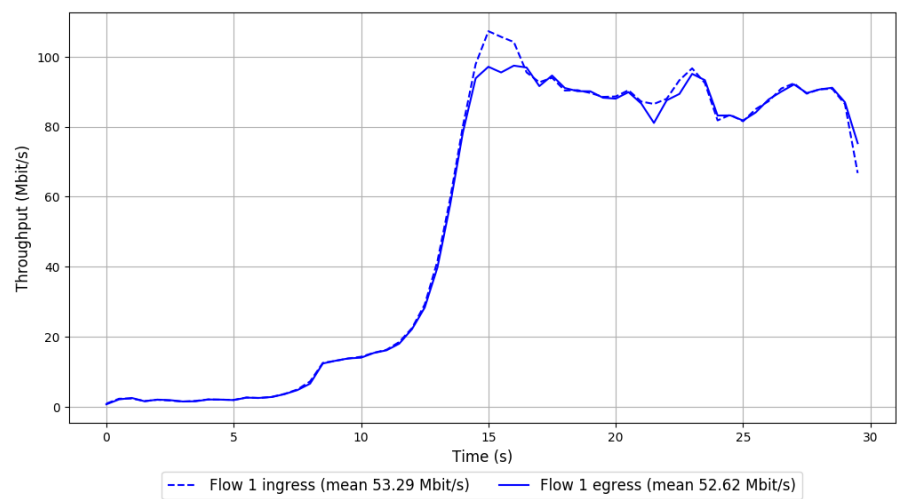


Run 2: Statistics of Vivace-latency

Start at: 2018-03-20 14:58:02
End at: 2018-03-20 14:58:32
Local clock offset: 3.68 ms
Remote clock offset: -21.087 ms

Below is generated by plot.py at 2018-03-20 18:52:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 52.62 Mbit/s
95th percentile per-packet one-way delay: 63.974 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 52.62 Mbit/s
95th percentile per-packet one-way delay: 63.974 ms
Loss rate: 1.30%

Run 2: Report of Vivace-latency — Data Link

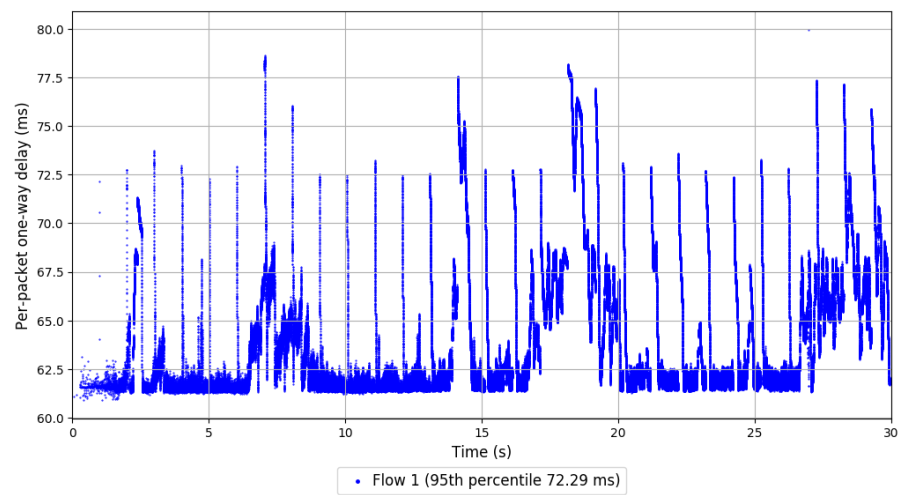
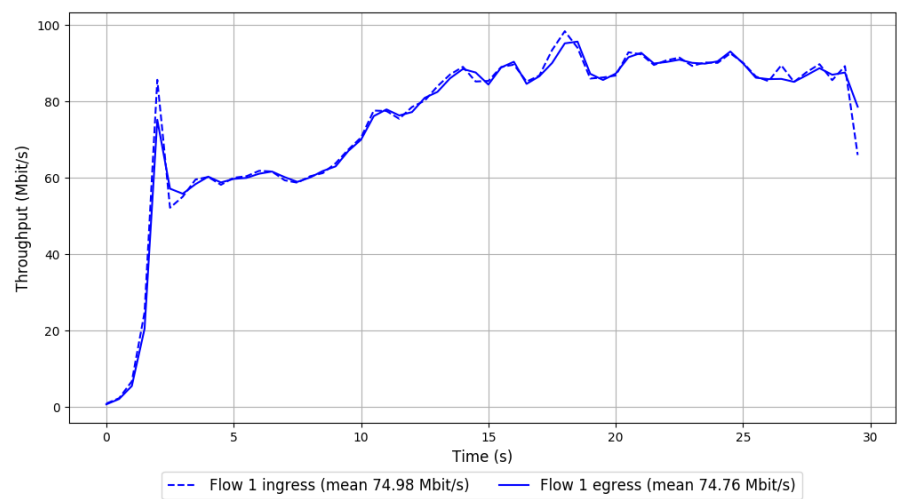


Run 3: Statistics of Vivace-latency

Start at: 2018-03-20 15:19:58
End at: 2018-03-20 15:20:28
Local clock offset: 3.906 ms
Remote clock offset: -11.208 ms

Below is generated by plot.py at 2018-03-20 18:52:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 74.76 Mbit/s
95th percentile per-packet one-way delay: 72.294 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 74.76 Mbit/s
95th percentile per-packet one-way delay: 72.294 ms
Loss rate: 0.28%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

/home/ubuntu/pantheon_data/2018-03-20T14-24-AWS-Korea-to-China-10-runs/vivace_latency_stats.

Run 4: Report of Vivace-latency — Data Link

Figure is missing

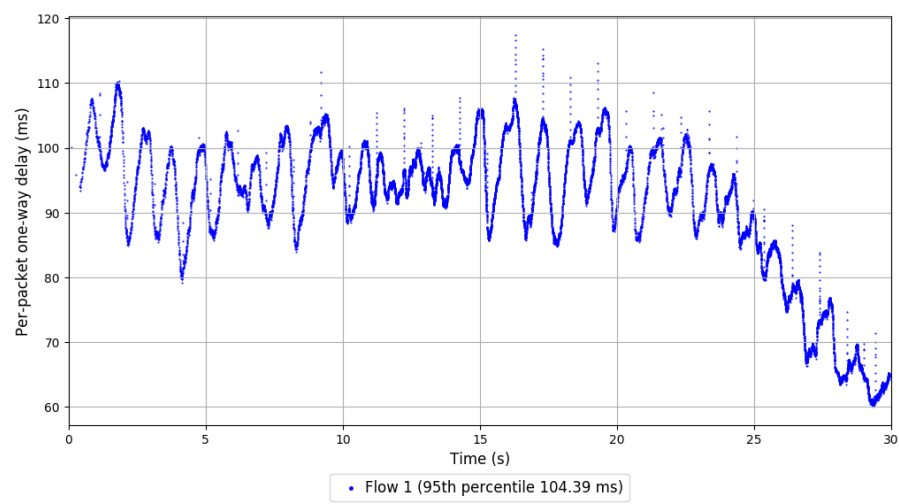
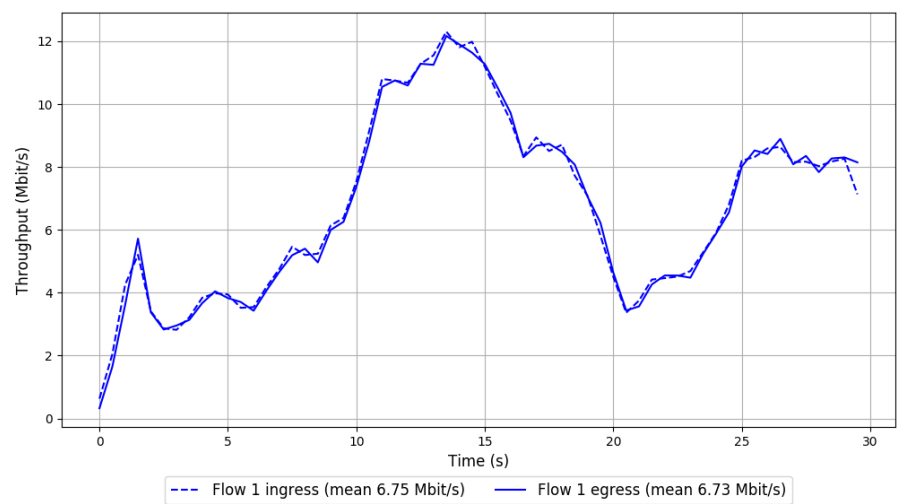
Figure is missing

Run 5: Statistics of Vivace-latency

Start at: 2018-03-20 16:05:00
End at: 2018-03-20 16:05:30
Local clock offset: 6.901 ms
Remote clock offset: -13.897 ms

Below is generated by plot.py at 2018-03-20 18:52:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.73 Mbit/s
95th percentile per-packet one-way delay: 104.393 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 6.73 Mbit/s
95th percentile per-packet one-way delay: 104.393 ms
Loss rate: 0.43%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-03-20 16:27:06

End at: 2018-03-20 16:27:36

Local clock offset: 6.568 ms

Remote clock offset: 1.326 ms

Below is generated by plot.py at 2018-03-20 18:52:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.28 Mbit/s

95th percentile per-packet one-way delay: 89.045 ms

Loss rate: 0.21%

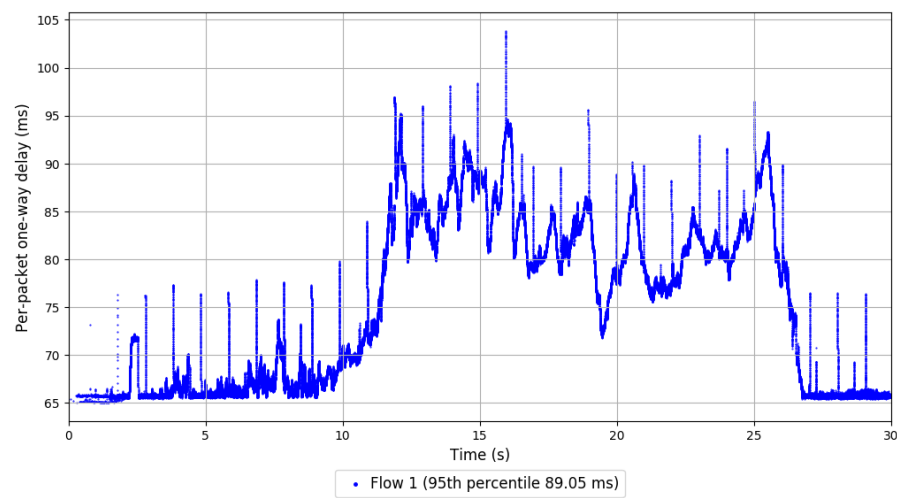
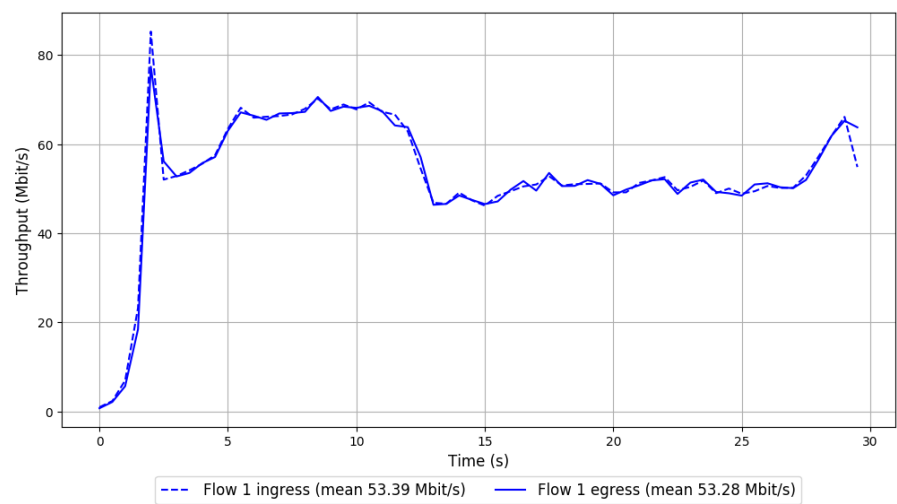
-- Flow 1:

Average throughput: 53.28 Mbit/s

95th percentile per-packet one-way delay: 89.045 ms

Loss rate: 0.21%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-03-20 16:52:18

End at: 2018-03-20 16:52:48

Local clock offset: 0.103 ms

Remote clock offset: 0.582 ms

Below is generated by plot.py at 2018-03-20 18:52:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.36 Mbit/s

95th percentile per-packet one-way delay: 74.169 ms

Loss rate: 0.05%

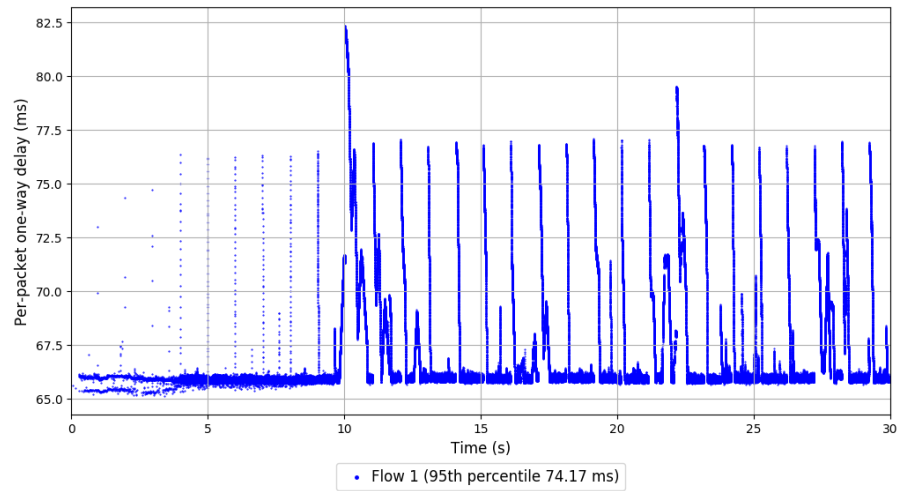
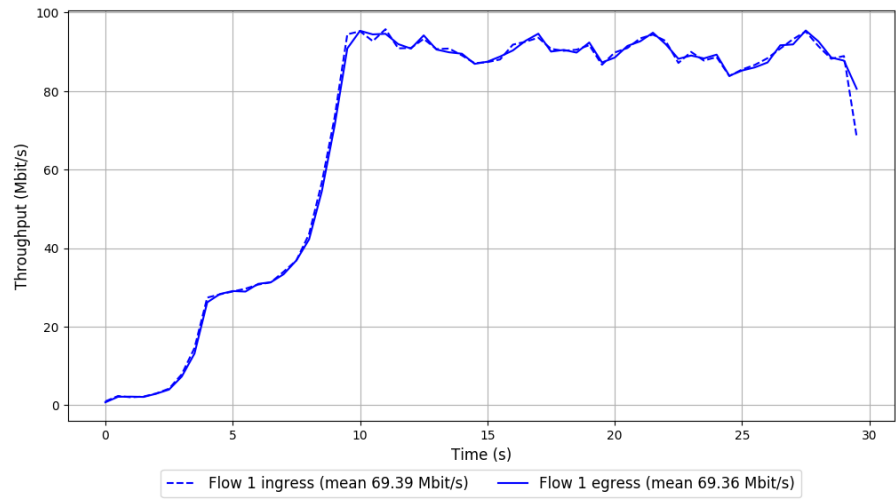
-- Flow 1:

Average throughput: 69.36 Mbit/s

95th percentile per-packet one-way delay: 74.169 ms

Loss rate: 0.05%

Run 7: Report of Vivace-latency — Data Link

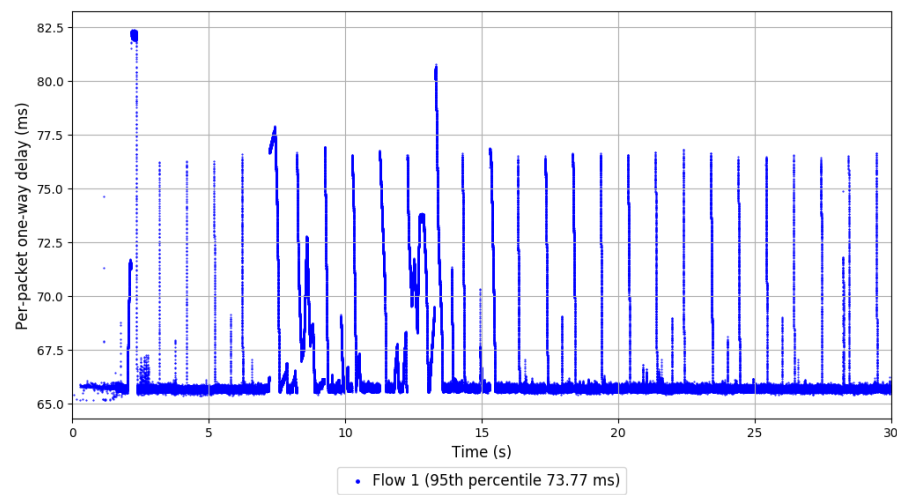
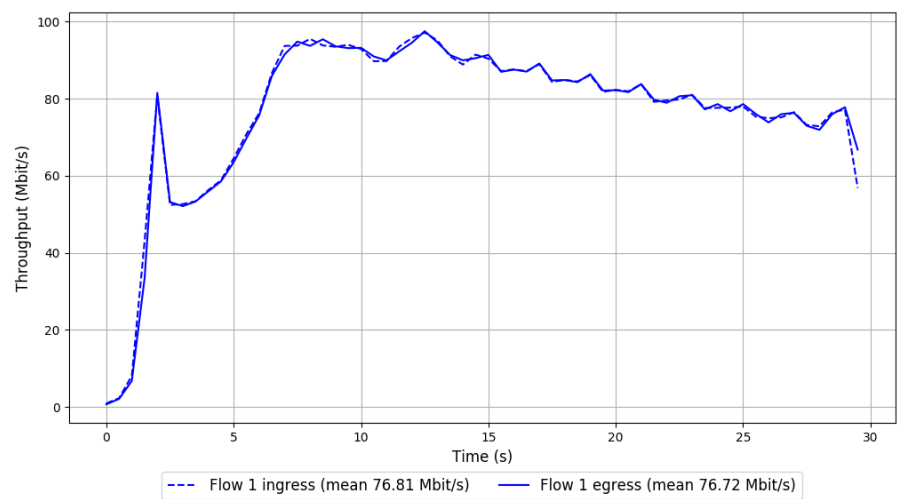


Run 8: Statistics of Vivace-latency

Start at: 2018-03-20 17:14:17
End at: 2018-03-20 17:14:47
Local clock offset: -0.522 ms
Remote clock offset: -0.007 ms

Below is generated by plot.py at 2018-03-20 18:52:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.72 Mbit/s
95th percentile per-packet one-way delay: 73.765 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 76.72 Mbit/s
95th percentile per-packet one-way delay: 73.765 ms
Loss rate: 0.12%

Run 8: Report of Vivace-latency — Data Link

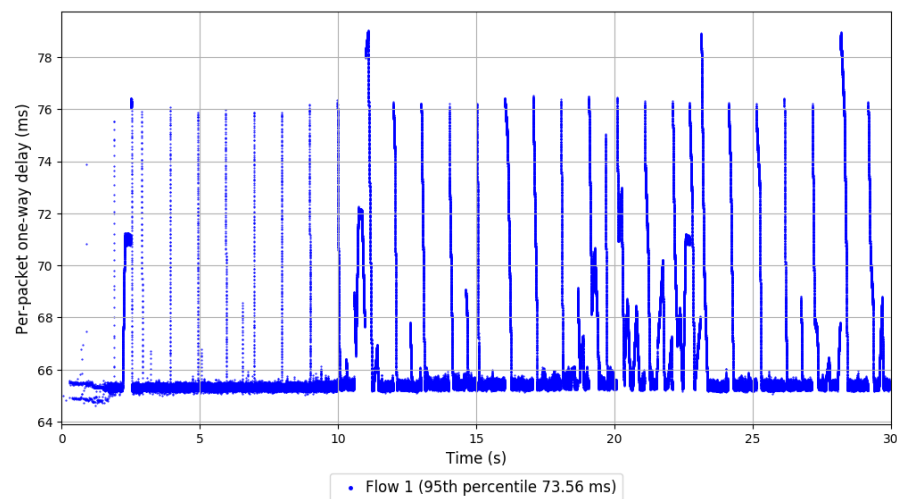
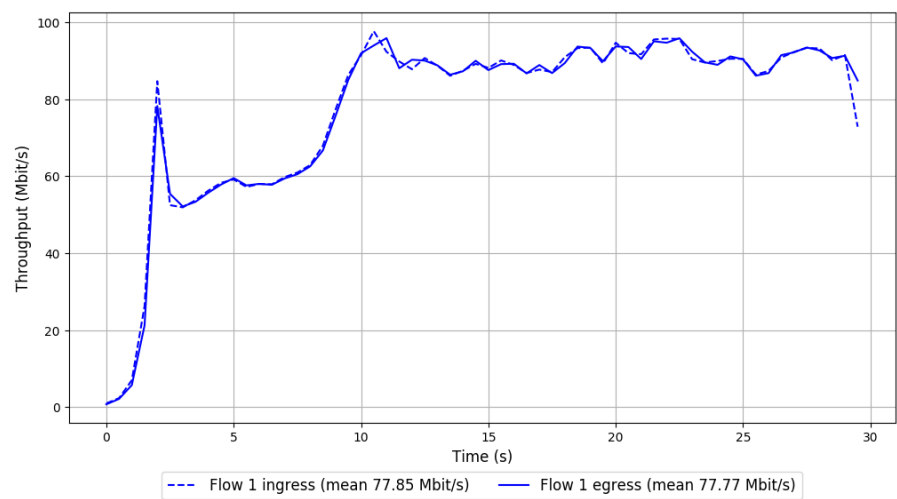


Run 9: Statistics of Vivace-latency

Start at: 2018-03-20 17:36:01
End at: 2018-03-20 17:36:31
Local clock offset: -1.021 ms
Remote clock offset: -0.608 ms

Below is generated by plot.py at 2018-03-20 18:52:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.77 Mbit/s
95th percentile per-packet one-way delay: 73.558 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 77.77 Mbit/s
95th percentile per-packet one-way delay: 73.558 ms
Loss rate: 0.10%

Run 9: Report of Vivace-latency — Data Link

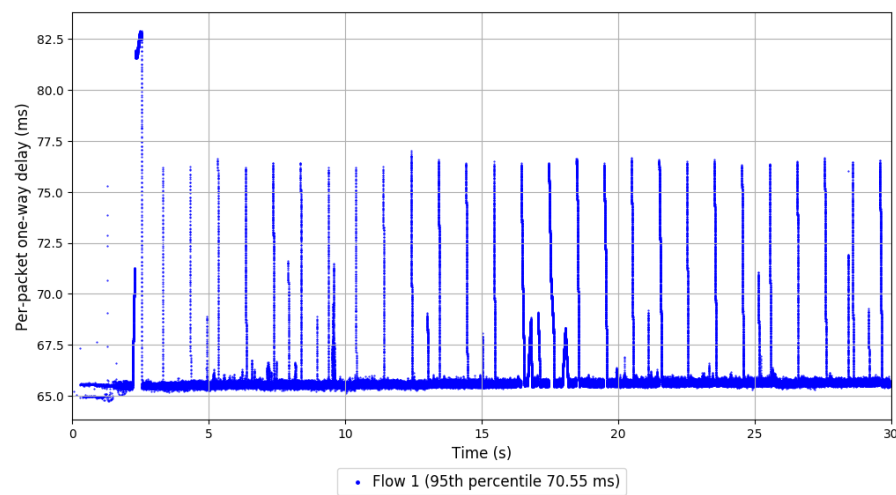
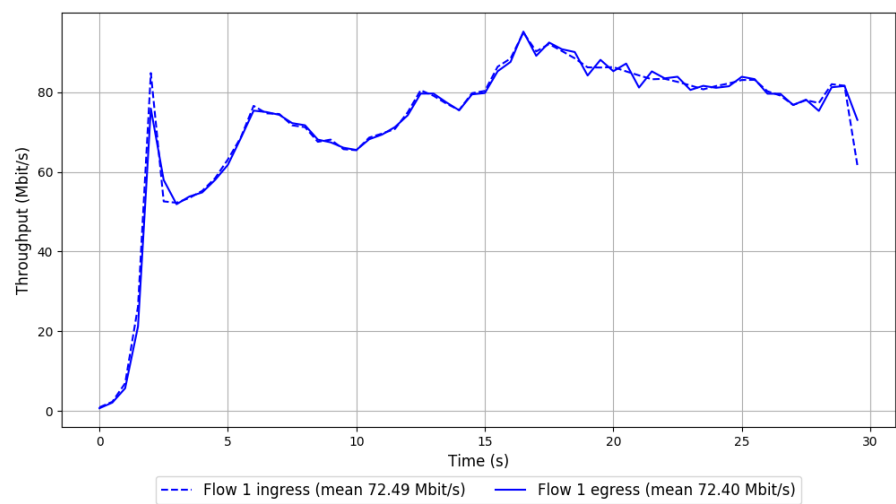


Run 10: Statistics of Vivace-latency

Start at: 2018-03-20 17:59:52
End at: 2018-03-20 18:00:23
Local clock offset: 4.907 ms
Remote clock offset: -1.432 ms

Below is generated by plot.py at 2018-03-20 18:52:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 72.40 Mbit/s
95th percentile per-packet one-way delay: 70.545 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 72.40 Mbit/s
95th percentile per-packet one-way delay: 70.545 ms
Loss rate: 0.12%

Run 10: Report of Vivace-latency — Data Link



Run 1: Statistics of Vivace-loss

Start at: 2018-03-20 14:37:28

End at: 2018-03-20 14:37:58

Local clock offset: 4.746 ms

Remote clock offset: -23.023 ms

Below is generated by plot.py at 2018-03-20 18:52:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.89 Mbit/s

95th percentile per-packet one-way delay: 63.608 ms

Loss rate: 2.14%

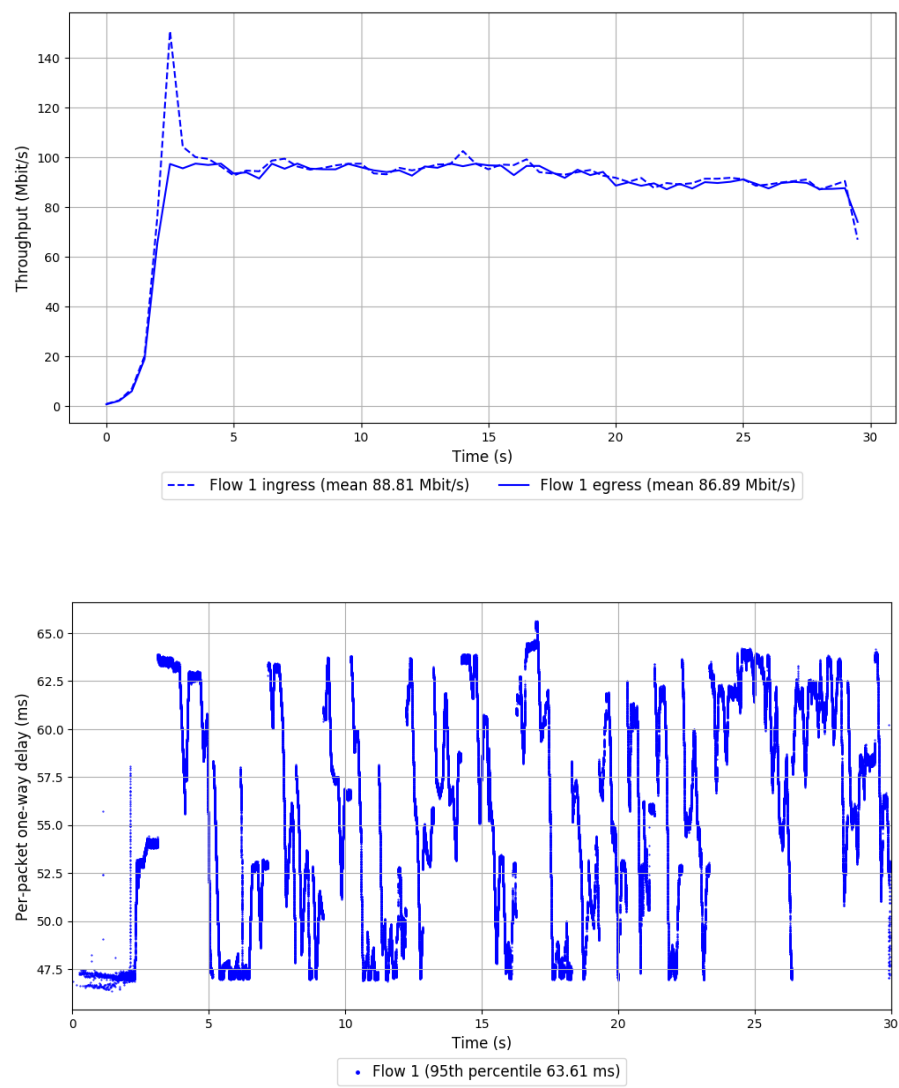
-- Flow 1:

Average throughput: 86.89 Mbit/s

95th percentile per-packet one-way delay: 63.608 ms

Loss rate: 2.14%

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-03-20 15:00:24

End at: 2018-03-20 15:00:54

Local clock offset: 3.263 ms

Remote clock offset: -29.42 ms

Below is generated by plot.py at 2018-03-20 18:52:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.84 Mbit/s

95th percentile per-packet one-way delay: 58.759 ms

Loss rate: 1.87%

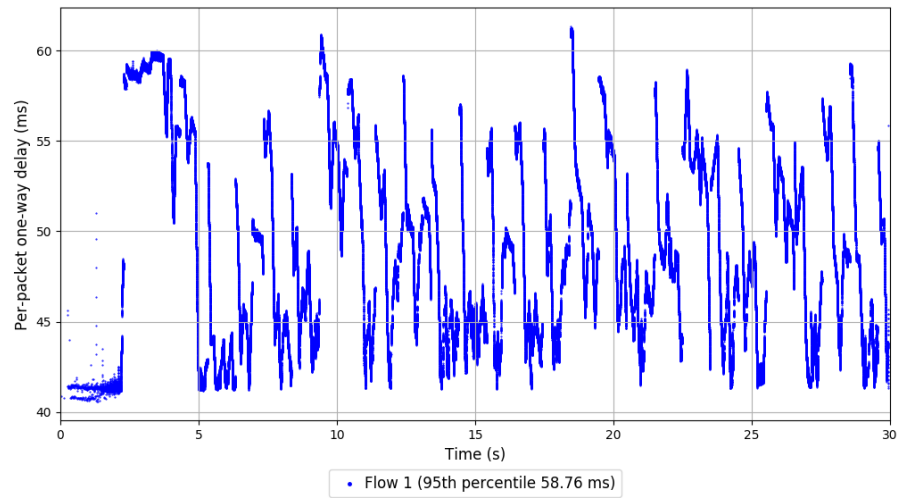
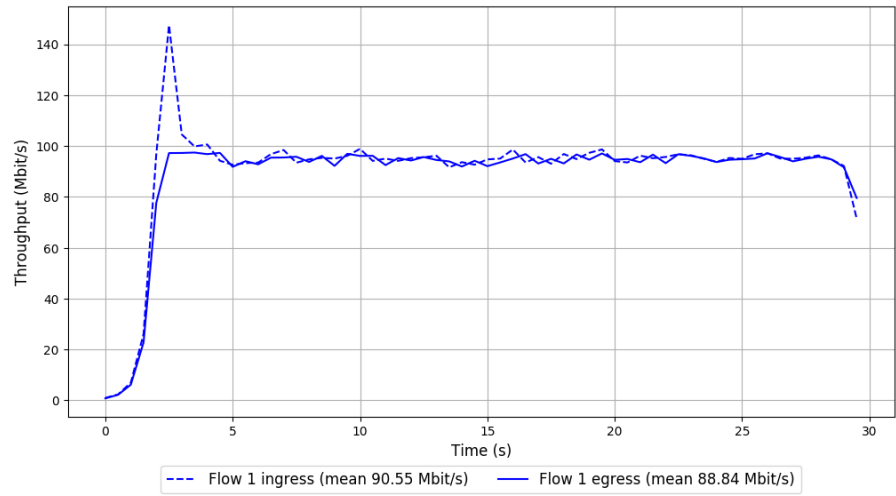
-- Flow 1:

Average throughput: 88.84 Mbit/s

95th percentile per-packet one-way delay: 58.759 ms

Loss rate: 1.87%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-03-20 15:22:24

End at: 2018-03-20 15:22:54

Local clock offset: 4.024 ms

Remote clock offset: -7.445 ms

Below is generated by plot.py at 2018-03-20 18:52:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.28 Mbit/s

95th percentile per-packet one-way delay: 81.132 ms

Loss rate: 0.73%

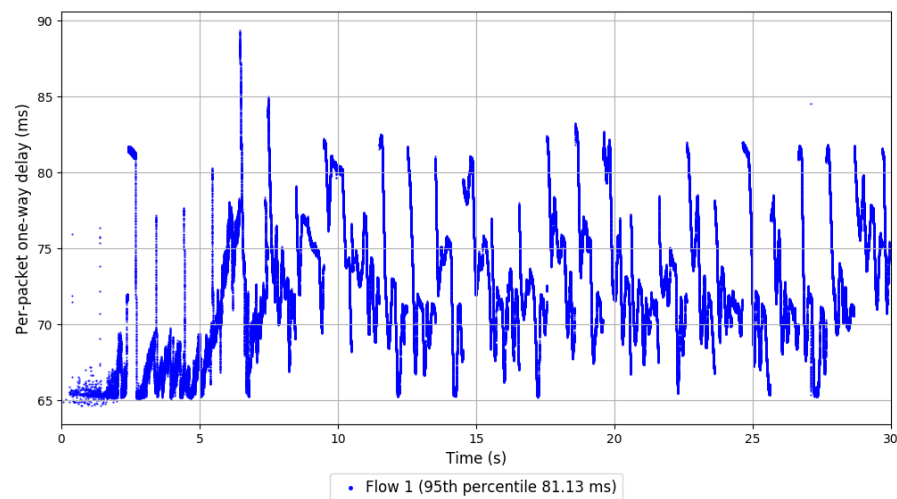
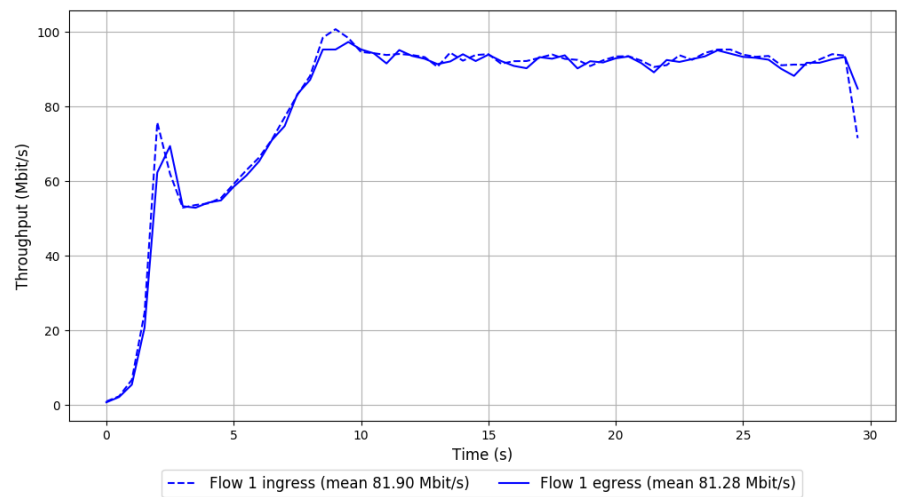
-- Flow 1:

Average throughput: 81.28 Mbit/s

95th percentile per-packet one-way delay: 81.132 ms

Loss rate: 0.73%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-03-20 15:45:30

End at: 2018-03-20 15:46:00

Local clock offset: 6.919 ms

Remote clock offset: -10.135 ms

Below is generated by plot.py at 2018-03-20 18:52:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.31 Mbit/s

95th percentile per-packet one-way delay: 114.908 ms

Loss rate: 0.88%

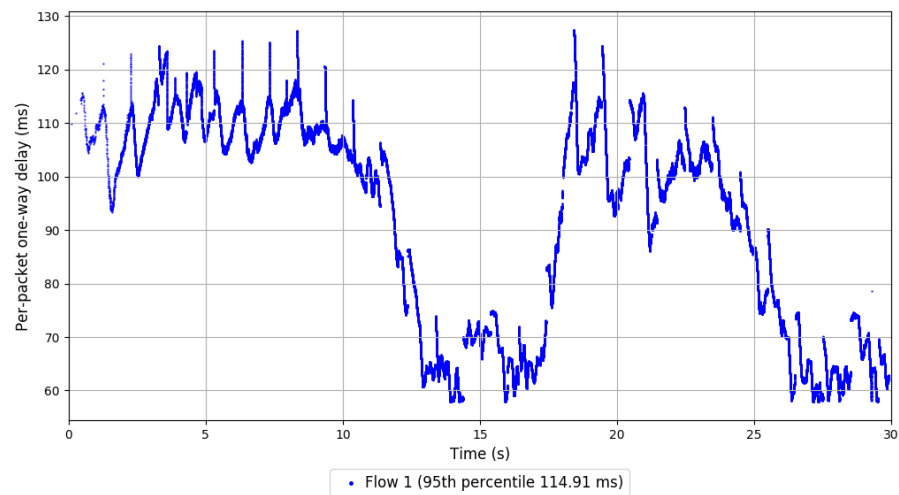
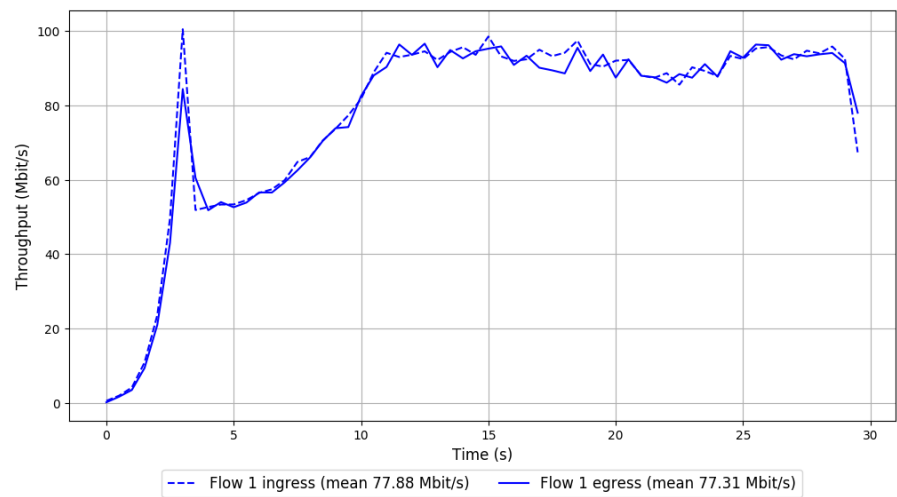
-- Flow 1:

Average throughput: 77.31 Mbit/s

95th percentile per-packet one-way delay: 114.908 ms

Loss rate: 0.88%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-03-20 16:07:19

End at: 2018-03-20 16:07:49

Local clock offset: 6.986 ms

Remote clock offset: -11.233 ms

Below is generated by plot.py at 2018-03-20 18:52:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.42 Mbit/s

95th percentile per-packet one-way delay: 79.413 ms

Loss rate: 0.87%

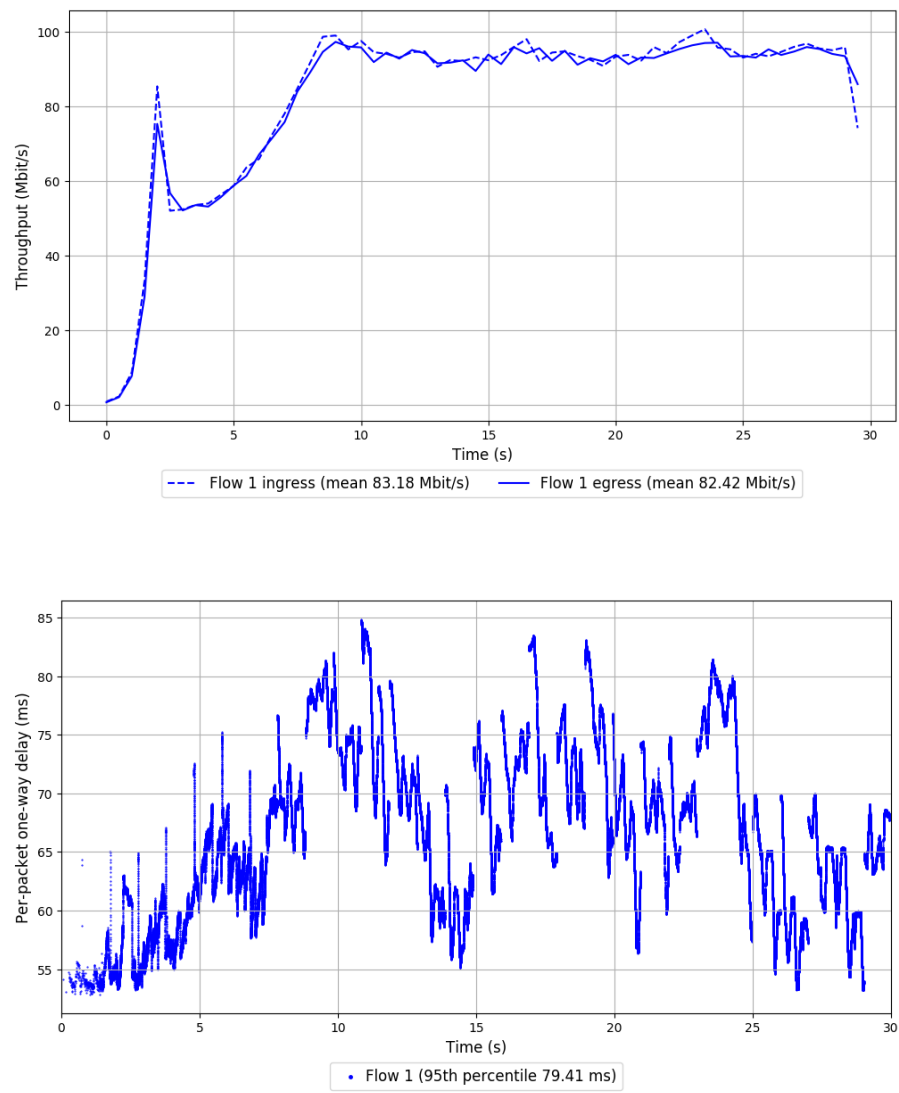
-- Flow 1:

Average throughput: 82.42 Mbit/s

95th percentile per-packet one-way delay: 79.413 ms

Loss rate: 0.87%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-03-20 16:29:27

End at: 2018-03-20 16:29:58

Local clock offset: 6.637 ms

Remote clock offset: 1.16 ms

Below is generated by plot.py at 2018-03-20 18:52:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.59 Mbit/s

95th percentile per-packet one-way delay: 95.565 ms

Loss rate: 1.97%

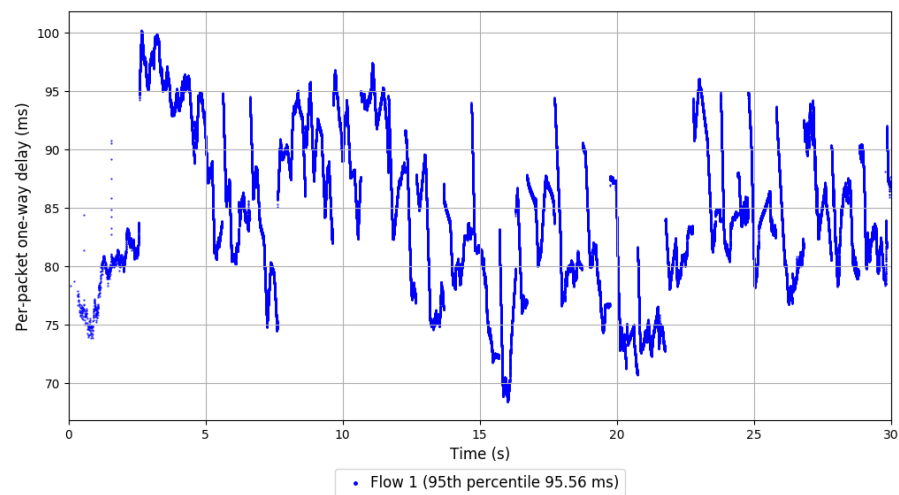
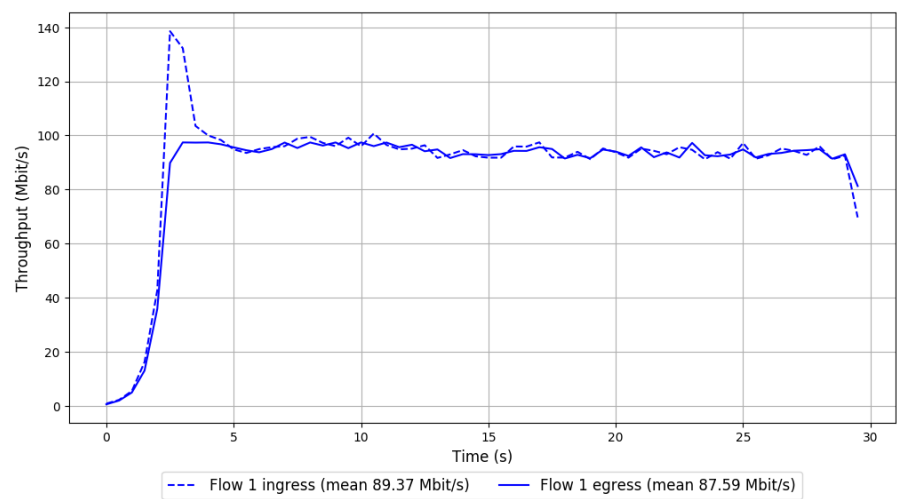
-- Flow 1:

Average throughput: 87.59 Mbit/s

95th percentile per-packet one-way delay: 95.565 ms

Loss rate: 1.97%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-03-20 16:54:40

End at: 2018-03-20 16:55:10

Local clock offset: 0.093 ms

Remote clock offset: 0.375 ms

Below is generated by plot.py at 2018-03-20 18:52:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.26 Mbit/s

95th percentile per-packet one-way delay: 82.098 ms

Loss rate: 1.64%

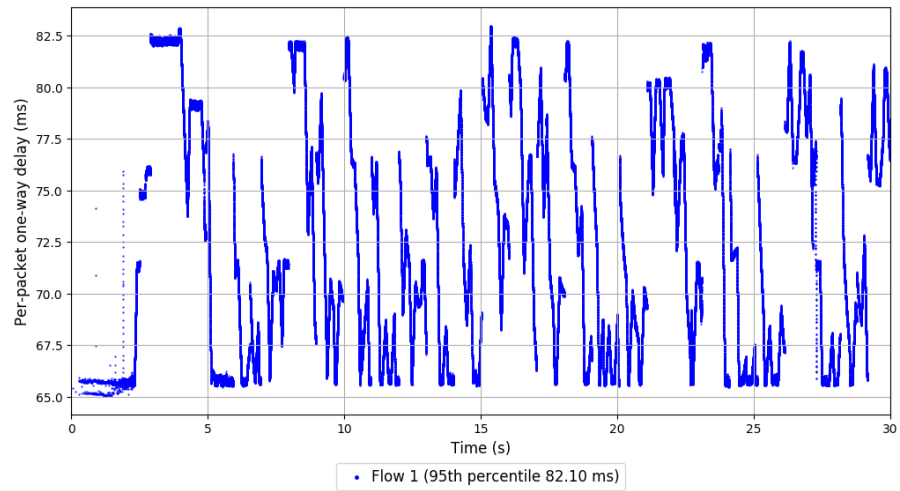
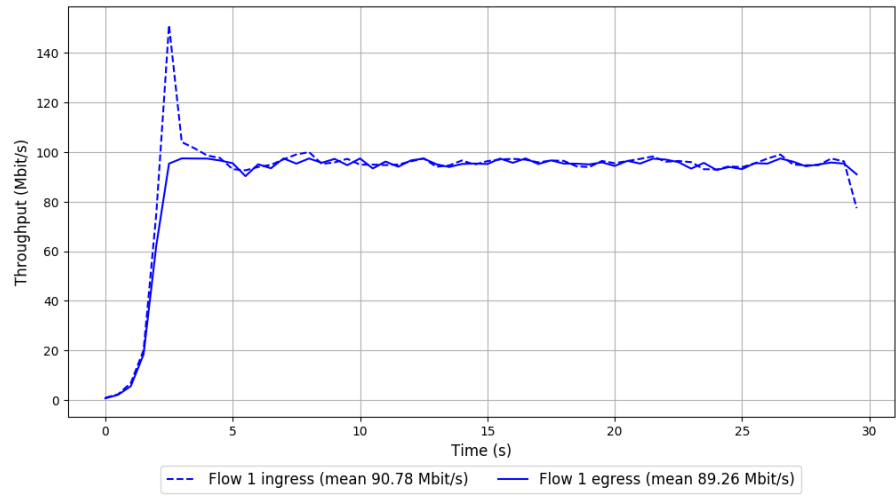
-- Flow 1:

Average throughput: 89.26 Mbit/s

95th percentile per-packet one-way delay: 82.098 ms

Loss rate: 1.64%

Run 7: Report of Vivace-loss — Data Link

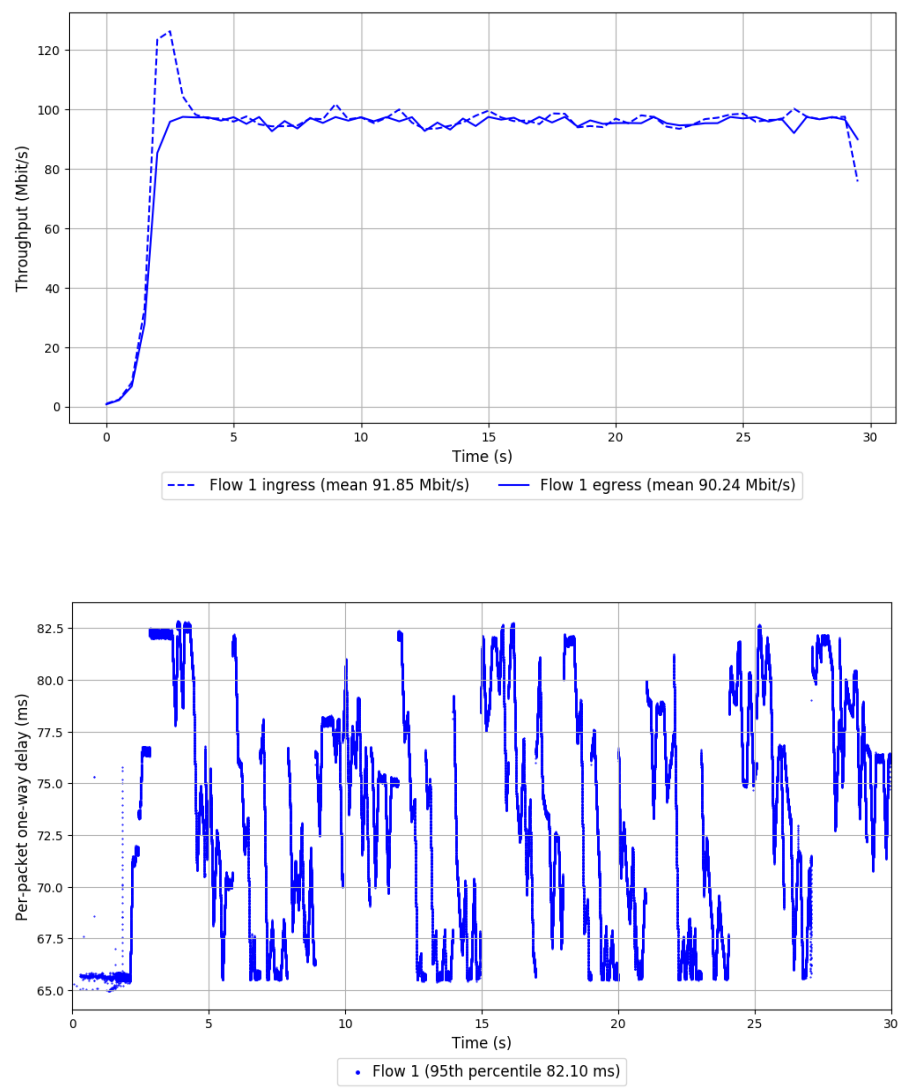


Run 8: Statistics of Vivace-loss

Start at: 2018-03-20 17:16:39
End at: 2018-03-20 17:17:09
Local clock offset: -0.504 ms
Remote clock offset: -0.036 ms

Below is generated by plot.py at 2018-03-20 18:52:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.24 Mbit/s
95th percentile per-packet one-way delay: 82.101 ms
Loss rate: 1.72%
-- Flow 1:
Average throughput: 90.24 Mbit/s
95th percentile per-packet one-way delay: 82.101 ms
Loss rate: 1.72%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-03-20 17:38:24

End at: 2018-03-20 17:38:54

Local clock offset: -1.139 ms

Remote clock offset: -0.613 ms

Below is generated by plot.py at 2018-03-20 18:52:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.24 Mbit/s

95th percentile per-packet one-way delay: 81.326 ms

Loss rate: 1.64%

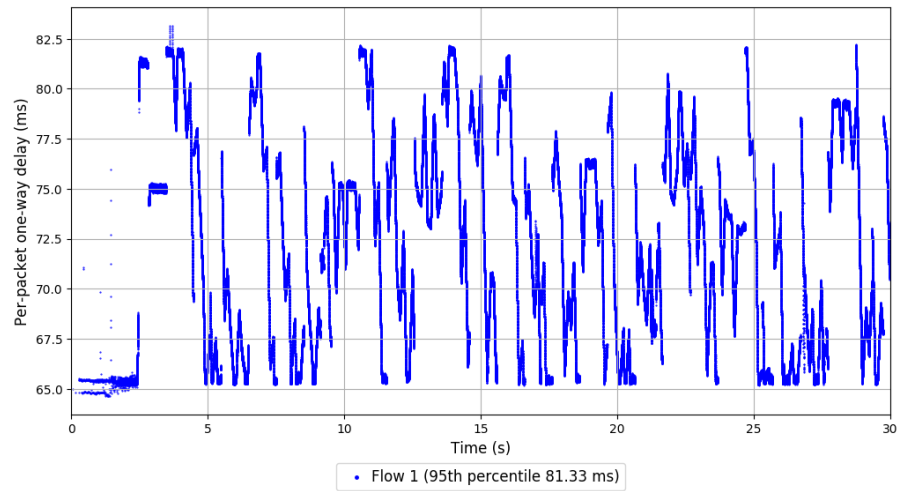
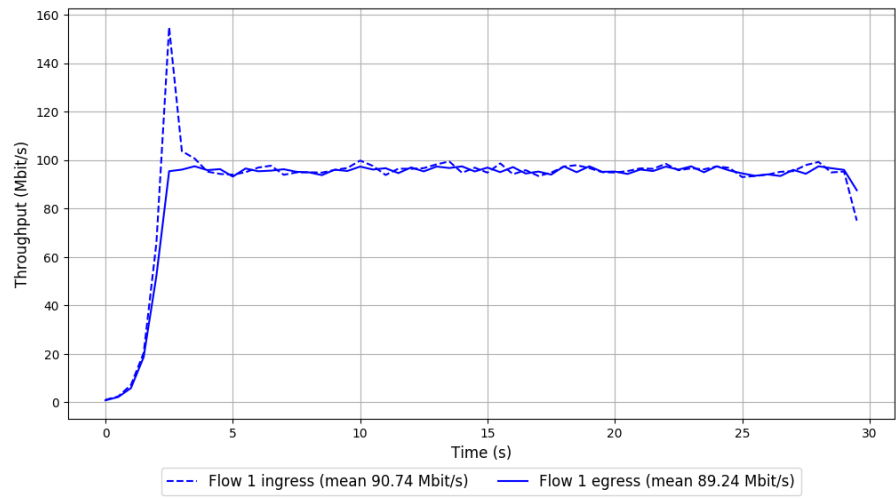
-- Flow 1:

Average throughput: 89.24 Mbit/s

95th percentile per-packet one-way delay: 81.326 ms

Loss rate: 1.64%

Run 9: Report of Vivace-loss — Data Link

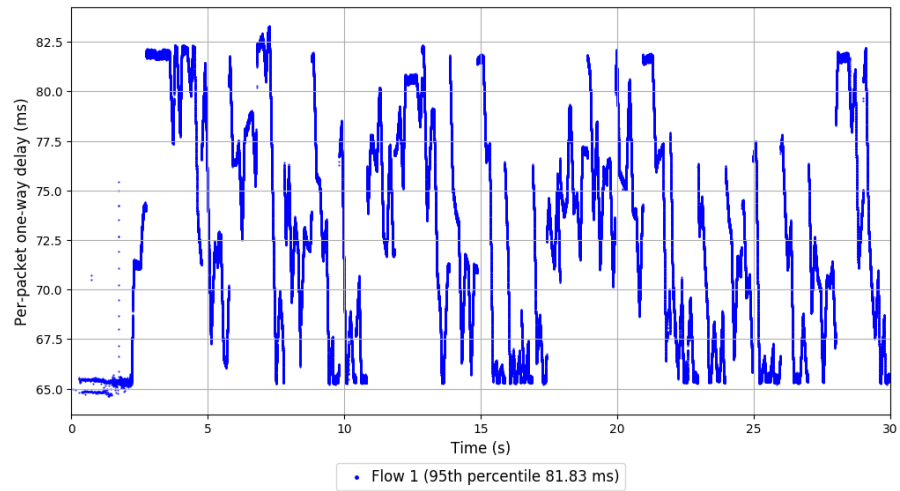
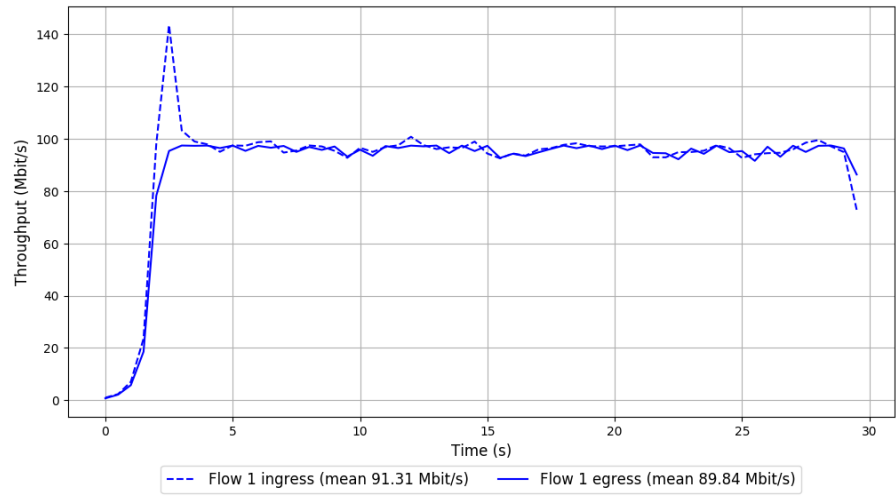


Run 10: Statistics of Vivace-loss

Start at: 2018-03-20 18:02:18
End at: 2018-03-20 18:02:49
Local clock offset: 5.333 ms
Remote clock offset: -1.622 ms

Below is generated by plot.py at 2018-03-20 18:53:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.84 Mbit/s
95th percentile per-packet one-way delay: 81.831 ms
Loss rate: 1.61%
-- Flow 1:
Average throughput: 89.84 Mbit/s
95th percentile per-packet one-way delay: 81.831 ms
Loss rate: 1.61%

Run 10: Report of Vivace-loss — Data Link

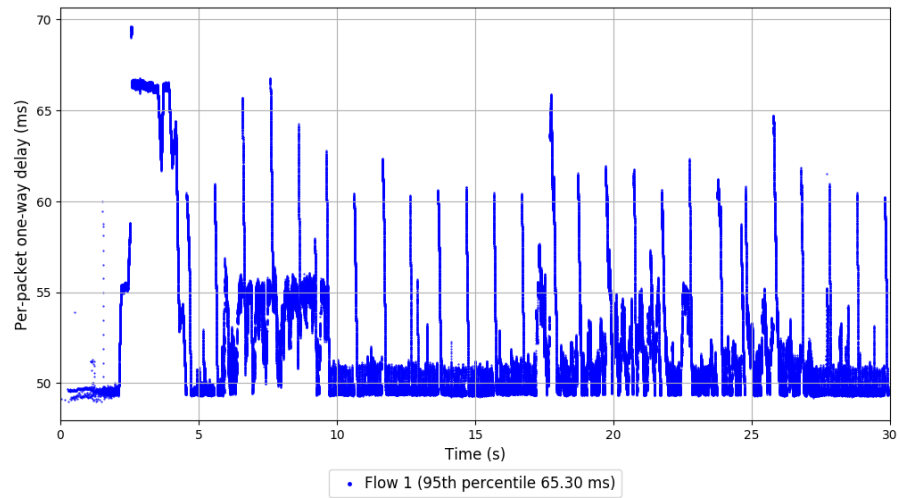
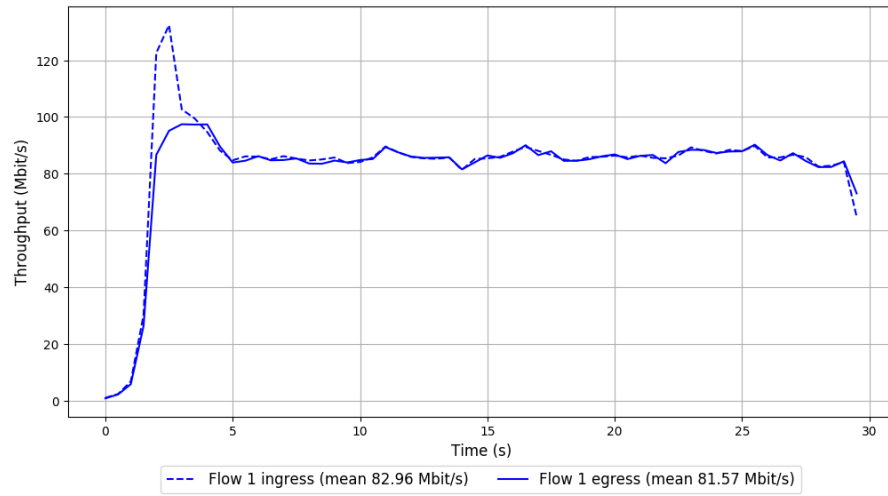


Run 1: Statistics of Vivace-LTE

Start at: 2018-03-20 14:31:32
End at: 2018-03-20 14:32:02
Local clock offset: 4.982 ms
Remote clock offset: -21.021 ms

Below is generated by plot.py at 2018-03-20 18:53:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 81.57 Mbit/s
95th percentile per-packet one-way delay: 65.296 ms
Loss rate: 1.68%
-- Flow 1:
Average throughput: 81.57 Mbit/s
95th percentile per-packet one-way delay: 65.296 ms
Loss rate: 1.68%

Run 1: Report of Vivace-LTE — Data Link

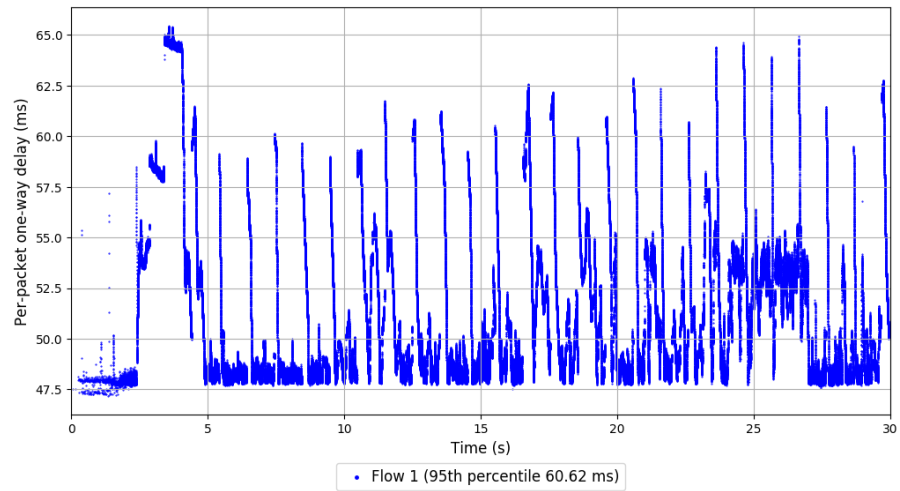
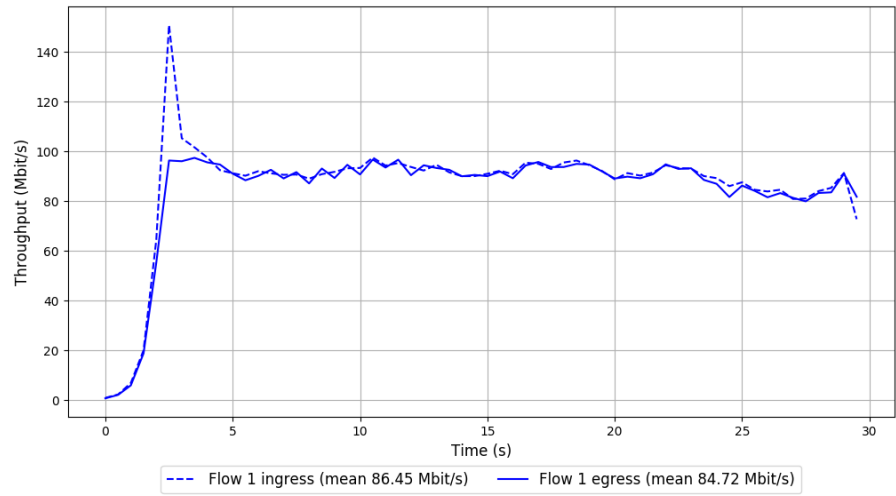


Run 2: Statistics of Vivace-LTE

Start at: 2018-03-20 14:54:28
End at: 2018-03-20 14:54:58
Local clock offset: 3.831 ms
Remote clock offset: -22.117 ms

Below is generated by plot.py at 2018-03-20 18:53:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.72 Mbit/s
95th percentile per-packet one-way delay: 60.620 ms
Loss rate: 2.00%
-- Flow 1:
Average throughput: 84.72 Mbit/s
95th percentile per-packet one-way delay: 60.620 ms
Loss rate: 2.00%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-03-20 15:16:20

End at: 2018-03-20 15:16:50

Local clock offset: 3.952 ms

Remote clock offset: -9.86 ms

Below is generated by plot.py at 2018-03-20 18:53:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.83 Mbit/s

95th percentile per-packet one-way delay: 79.169 ms

Loss rate: 1.69%

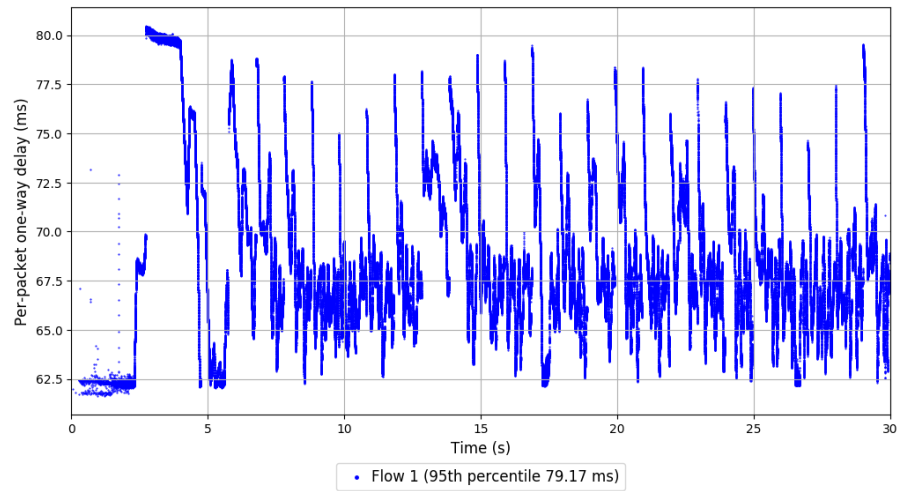
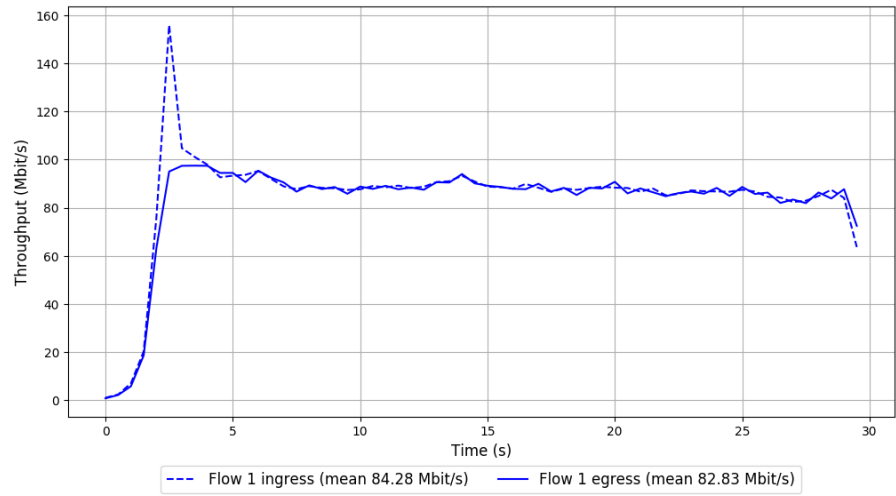
-- Flow 1:

Average throughput: 82.83 Mbit/s

95th percentile per-packet one-way delay: 79.169 ms

Loss rate: 1.69%

Run 3: Report of Vivace-LTE — Data Link

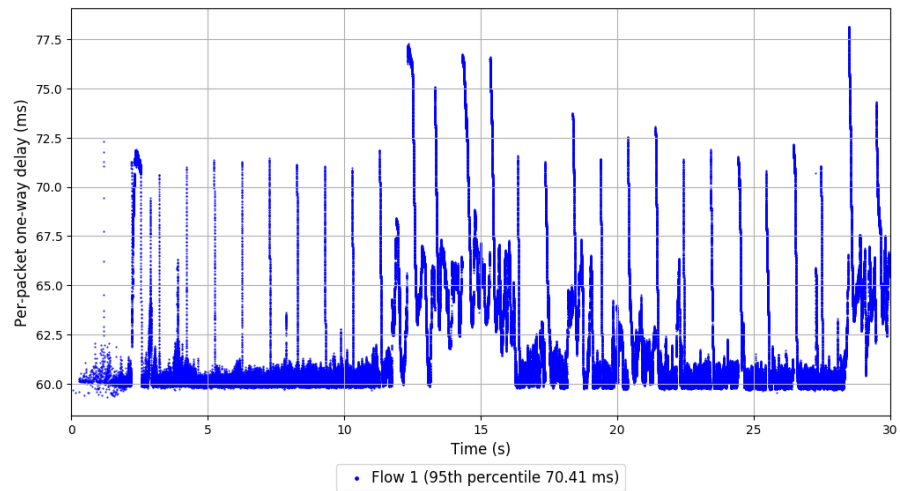
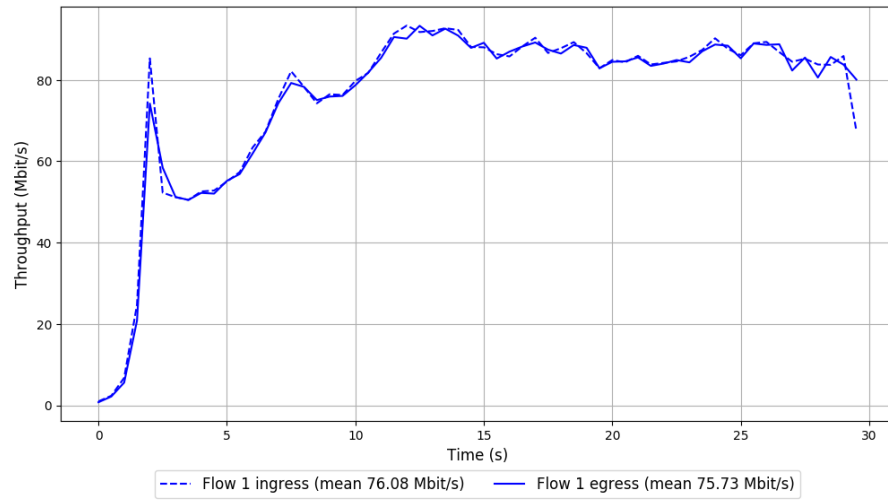


Run 4: Statistics of Vivace-LTE

Start at: 2018-03-20 15:38:13
End at: 2018-03-20 15:38:43
Local clock offset: 6.497 ms
Remote clock offset: -10.738 ms

Below is generated by plot.py at 2018-03-20 18:53:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 75.73 Mbit/s
95th percentile per-packet one-way delay: 70.411 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 75.73 Mbit/s
95th percentile per-packet one-way delay: 70.411 ms
Loss rate: 0.45%

Run 4: Report of Vivace-LTE — Data Link

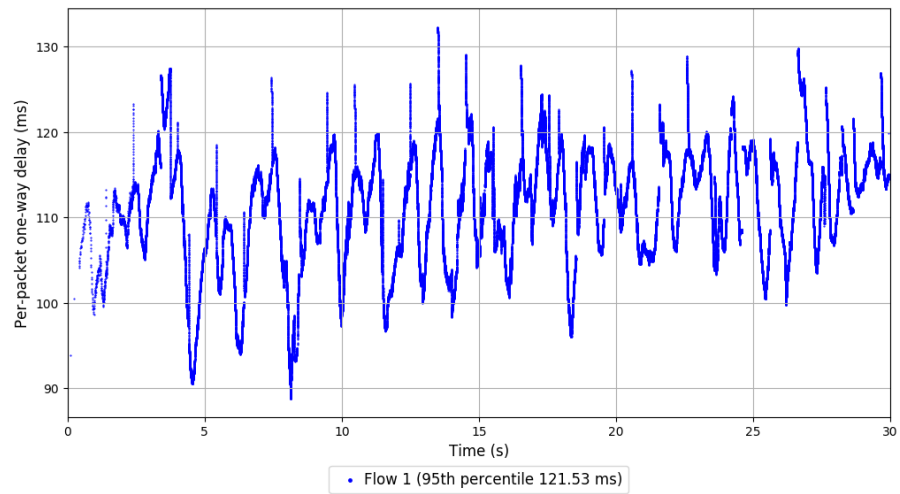
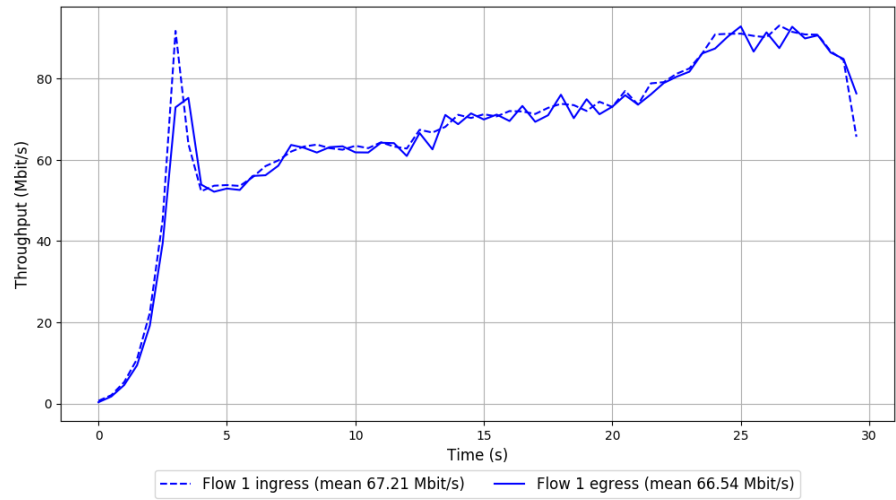


Run 5: Statistics of Vivace-LTE

Start at: 2018-03-20 16:01:27
End at: 2018-03-20 16:01:57
Local clock offset: 7.389 ms
Remote clock offset: -13.004 ms

Below is generated by plot.py at 2018-03-20 18:53:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 66.54 Mbit/s
95th percentile per-packet one-way delay: 121.525 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 66.54 Mbit/s
95th percentile per-packet one-way delay: 121.525 ms
Loss rate: 1.07%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-03-20 16:23:32

End at: 2018-03-20 16:24:02

Local clock offset: 6.346 ms

Remote clock offset: -2.164 ms

Below is generated by plot.py at 2018-03-20 18:54:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.21 Mbit/s

95th percentile per-packet one-way delay: 77.562 ms

Loss rate: 0.25%

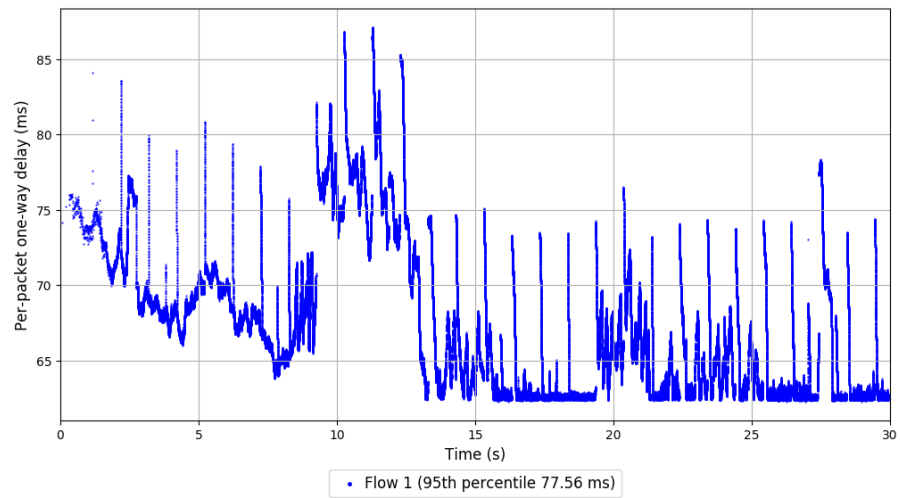
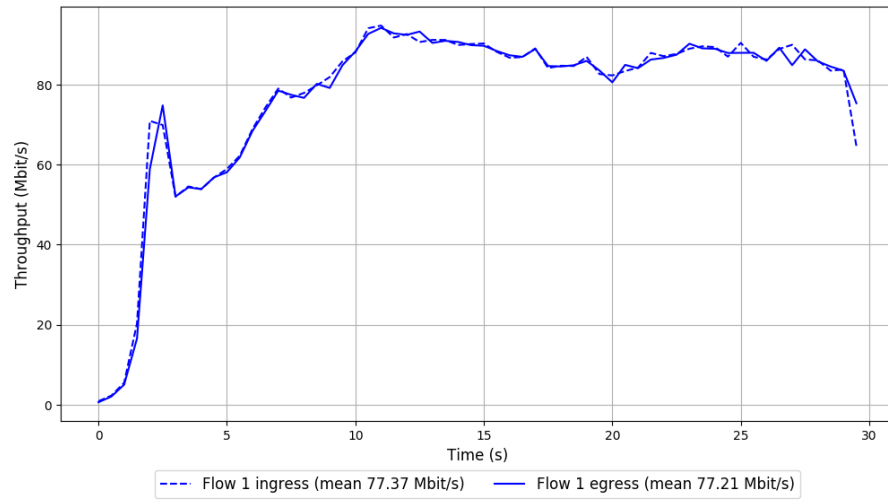
-- Flow 1:

Average throughput: 77.21 Mbit/s

95th percentile per-packet one-way delay: 77.562 ms

Loss rate: 0.25%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-03-20 16:48:44

End at: 2018-03-20 16:49:14

Local clock offset: 1.097 ms

Remote clock offset: 1.011 ms

Below is generated by plot.py at 2018-03-20 18:54:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.14 Mbit/s

95th percentile per-packet one-way delay: 81.528 ms

Loss rate: 1.42%

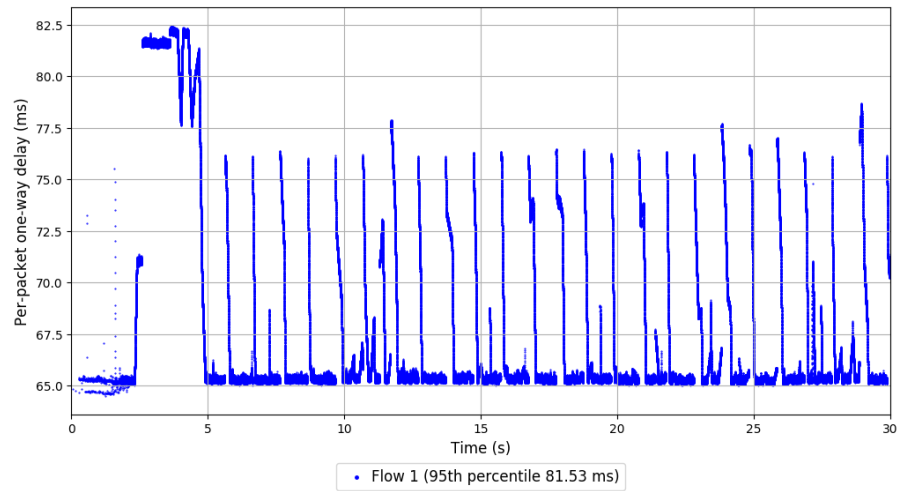
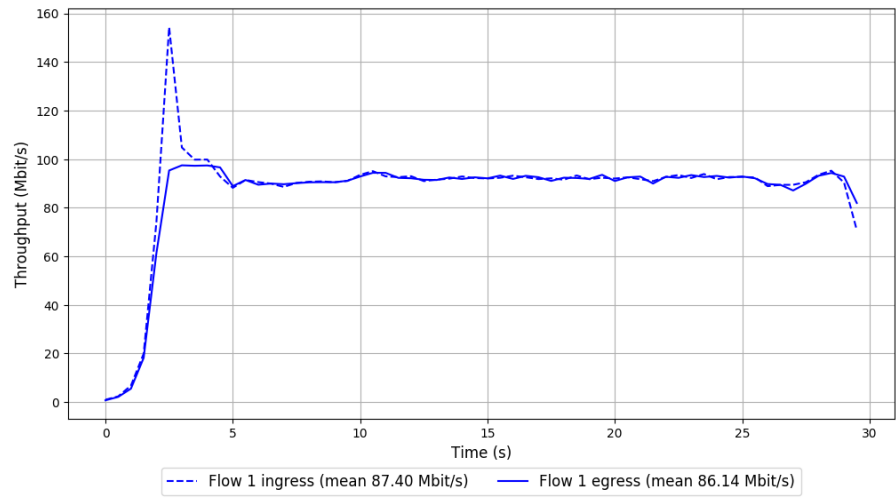
-- Flow 1:

Average throughput: 86.14 Mbit/s

95th percentile per-packet one-way delay: 81.528 ms

Loss rate: 1.42%

Run 7: Report of Vivace-LTE — Data Link

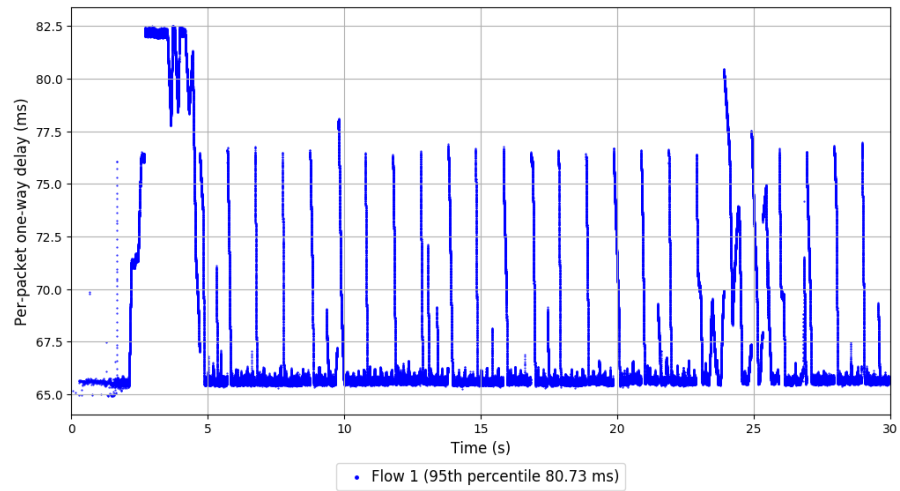
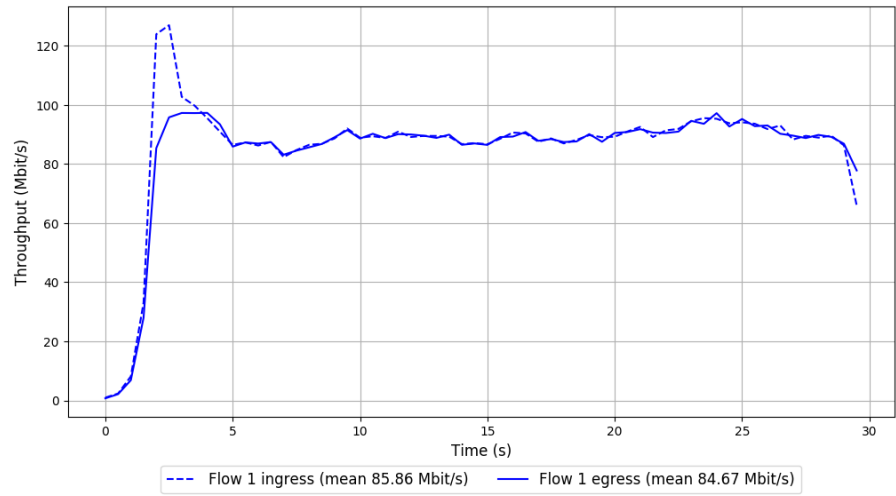


Run 8: Statistics of Vivace-LTE

Start at: 2018-03-20 17:10:43
End at: 2018-03-20 17:11:13
Local clock offset: -0.698 ms
Remote clock offset: -0.113 ms

Below is generated by plot.py at 2018-03-20 18:54:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.67 Mbit/s
95th percentile per-packet one-way delay: 80.732 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 84.67 Mbit/s
95th percentile per-packet one-way delay: 80.732 ms
Loss rate: 1.38%

Run 8: Report of Vivace-LTE — Data Link

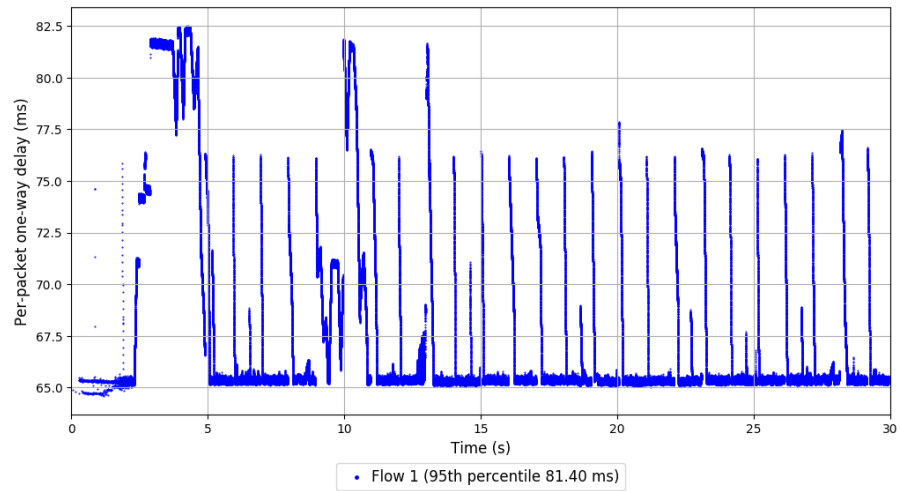
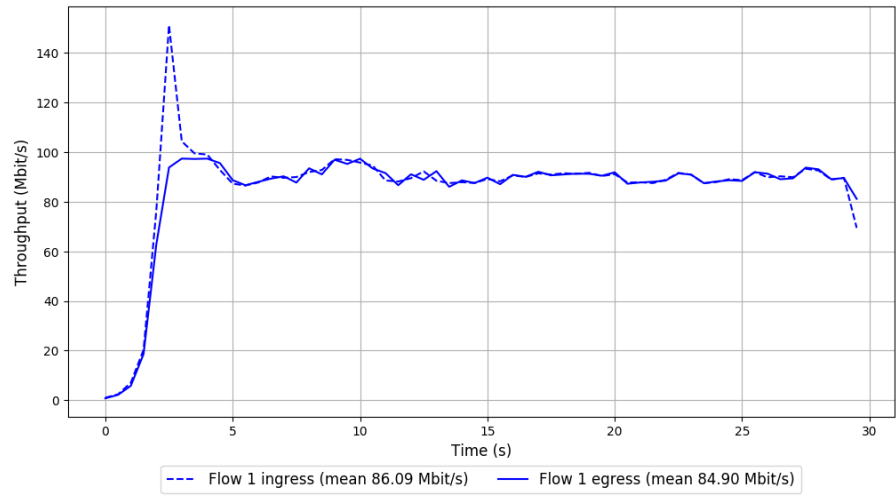


Run 9: Statistics of Vivace-LTE

Start at: 2018-03-20 17:32:27
End at: 2018-03-20 17:32:57
Local clock offset: -0.779 ms
Remote clock offset: -0.489 ms

Below is generated by plot.py at 2018-03-20 18:54:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.90 Mbit/s
95th percentile per-packet one-way delay: 81.403 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 84.90 Mbit/s
95th percentile per-packet one-way delay: 81.403 ms
Loss rate: 1.37%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-03-20 17:56:02

End at: 2018-03-20 17:56:32

Local clock offset: 4.32 ms

Remote clock offset: -1.222 ms

Below is generated by plot.py at 2018-03-20 18:54:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.67 Mbit/s

95th percentile per-packet one-way delay: 81.837 ms

Loss rate: 1.64%

-- Flow 1:

Average throughput: 85.67 Mbit/s

95th percentile per-packet one-way delay: 81.837 ms

Loss rate: 1.64%

Run 10: Report of Vivace-LTE — Data Link

