

Pantheon Report

Generated at 2018-03-20 18:34:19 (UTC).

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

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).

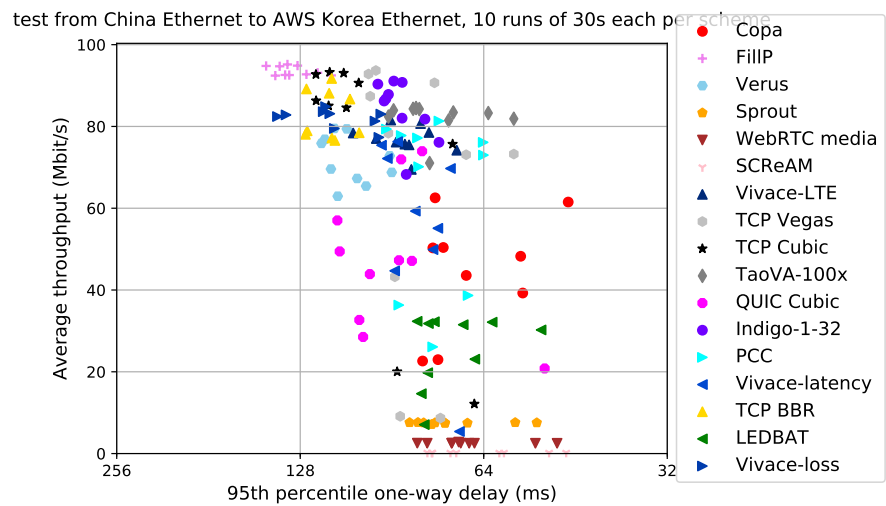
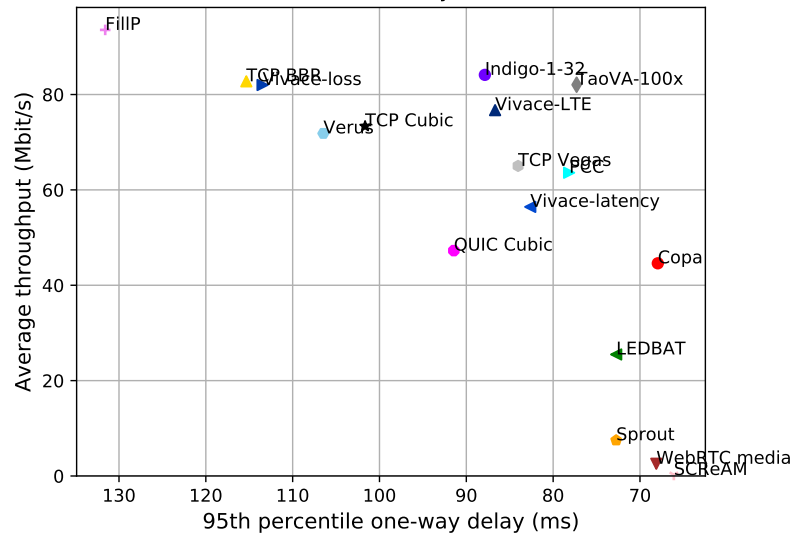
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eae30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



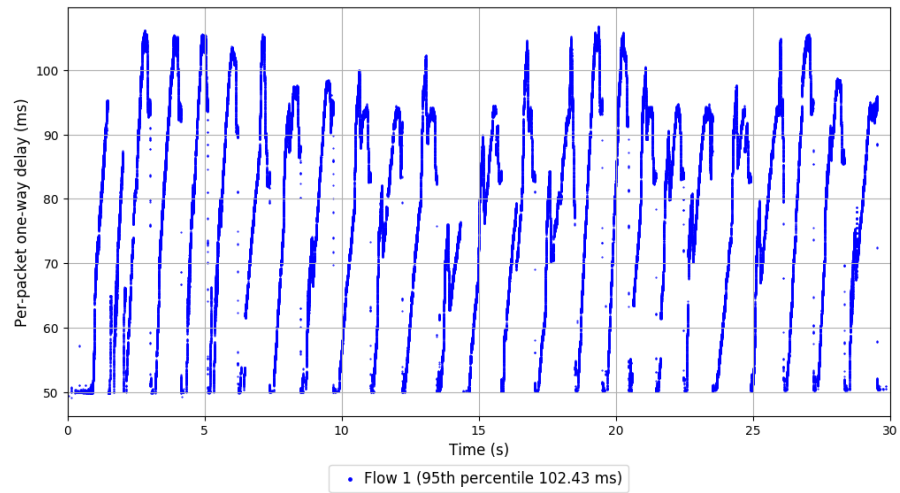
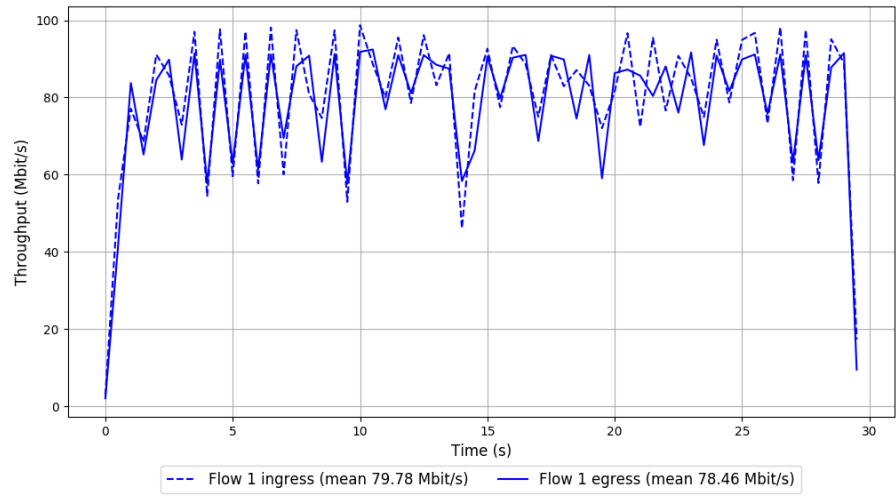
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	9	82.77	115.34	1.73
TCP Cubic	10	73.35	101.66	0.48
LEDBAT	10	25.49	72.74	0.68
PCC	10	63.60	78.16	0.47
QUIC Cubic	10	47.27	91.44	0.55
SCReAM	9	0.21	66.10	0.38
WebRTC media	10	2.56	68.12	0.46
Sprout	10	7.50	72.74	0.41
TaoVA-100x	10	82.05	77.30	2.94
TCP Vegas	10	65.03	84.04	0.39
Verus	10	71.85	106.46	0.86
Copa	9	44.60	67.95	0.40
FillP	10	93.55	131.59	2.70
Indigo-1-32	10	84.12	87.86	0.51
Vivace-latency	9	56.43	82.64	0.84
Vivace-loss	9	82.00	113.46	1.75
Vivace-LTE	10	76.73	86.69	0.58

Run 1: Statistics of TCP BBR

Start at: 2018-03-20 11:02:12
End at: 2018-03-20 11:02:42
Local clock offset: -6.645 ms
Remote clock offset: -18.333 ms

Below is generated by plot.py at 2018-03-20 18:15:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 78.46 Mbit/s
95th percentile per-packet one-way delay: 102.433 ms
Loss rate: 2.26%
-- Flow 1:
Average throughput: 78.46 Mbit/s
95th percentile per-packet one-way delay: 102.433 ms
Loss rate: 2.26%

Run 1: Report of TCP BBR — Data Link

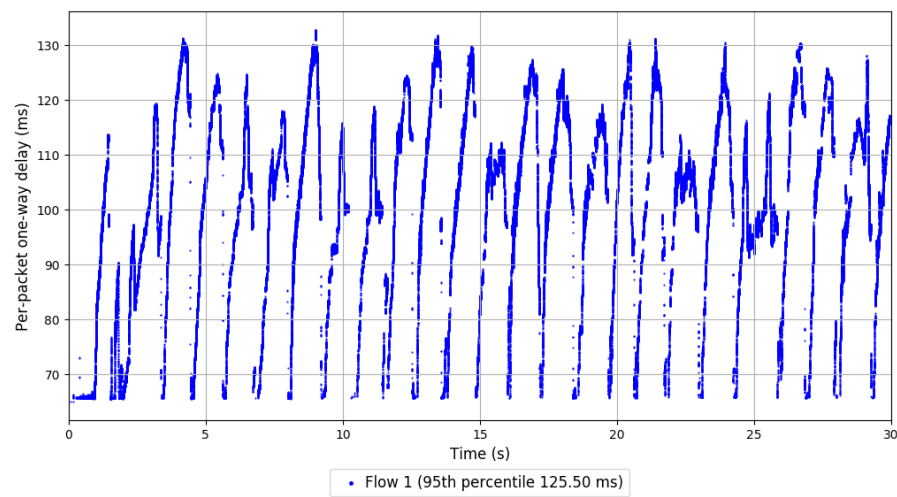
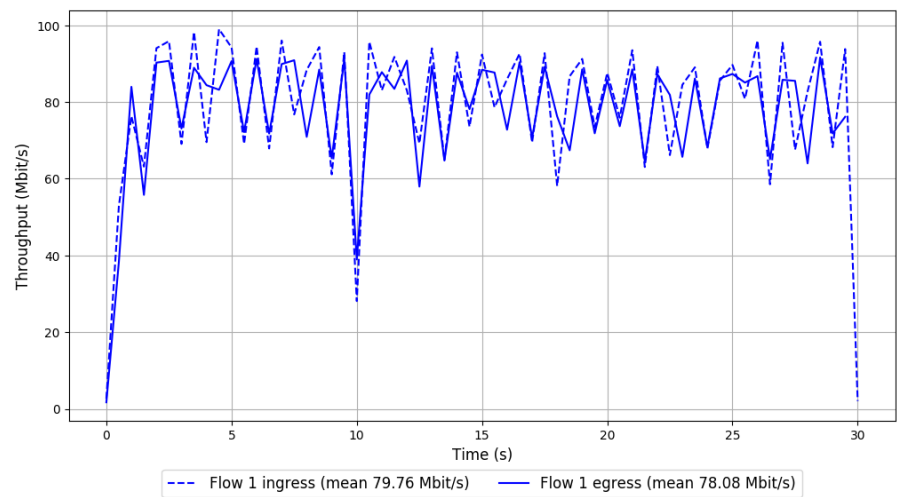


Run 2: Statistics of TCP BBR

Start at: 2018-03-20 11:23:55
End at: 2018-03-20 11:24:25
Local clock offset: -14.761 ms
Remote clock offset: -31.326 ms

Below is generated by plot.py at 2018-03-20 18:15:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 78.08 Mbit/s
95th percentile per-packet one-way delay: 125.497 ms
Loss rate: 2.58%
-- Flow 1:
Average throughput: 78.08 Mbit/s
95th percentile per-packet one-way delay: 125.497 ms
Loss rate: 2.58%

Run 2: Report of TCP BBR — Data Link

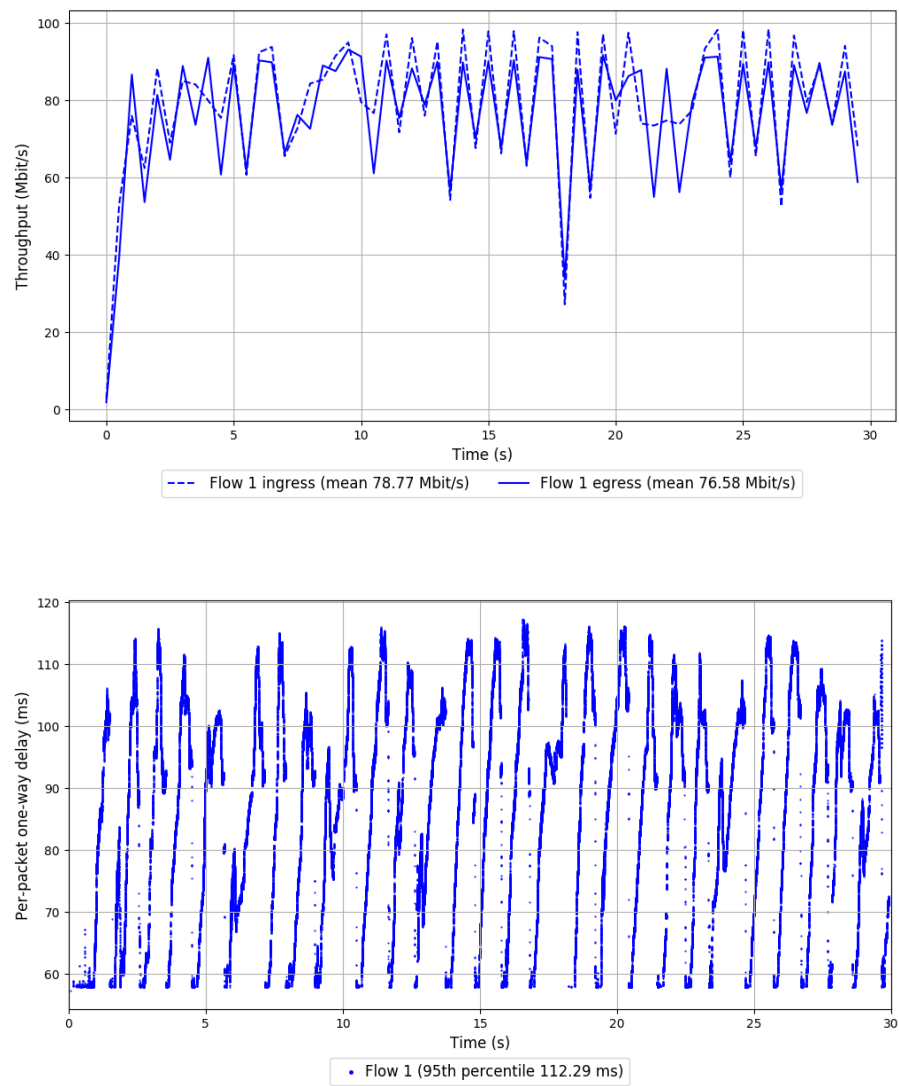


Run 3: Statistics of TCP BBR

Start at: 2018-03-20 11:46:25
End at: 2018-03-20 11:46:55
Local clock offset: 1.01 ms
Remote clock offset: -21.41 ms

Below is generated by plot.py at 2018-03-20 18:15:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.58 Mbit/s
95th percentile per-packet one-way delay: 112.289 ms
Loss rate: 3.19%
-- Flow 1:
Average throughput: 76.58 Mbit/s
95th percentile per-packet one-way delay: 112.289 ms
Loss rate: 3.19%

Run 3: Report of TCP BBR — Data Link

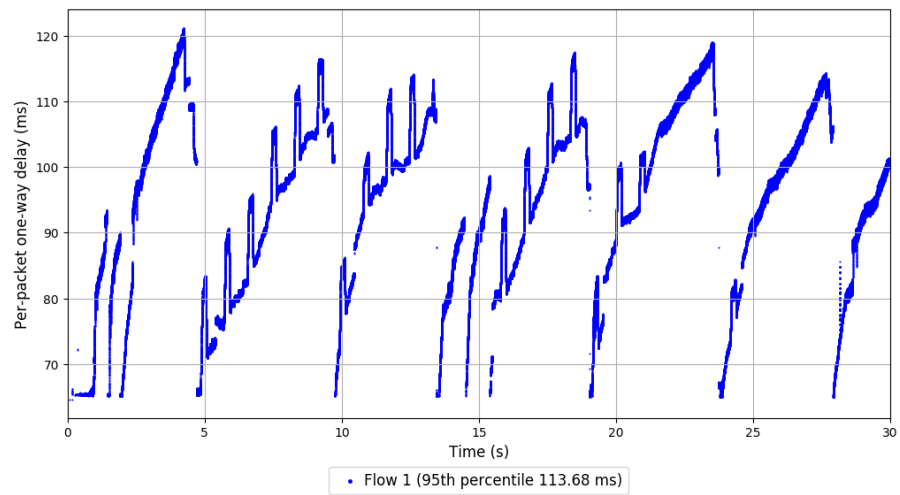
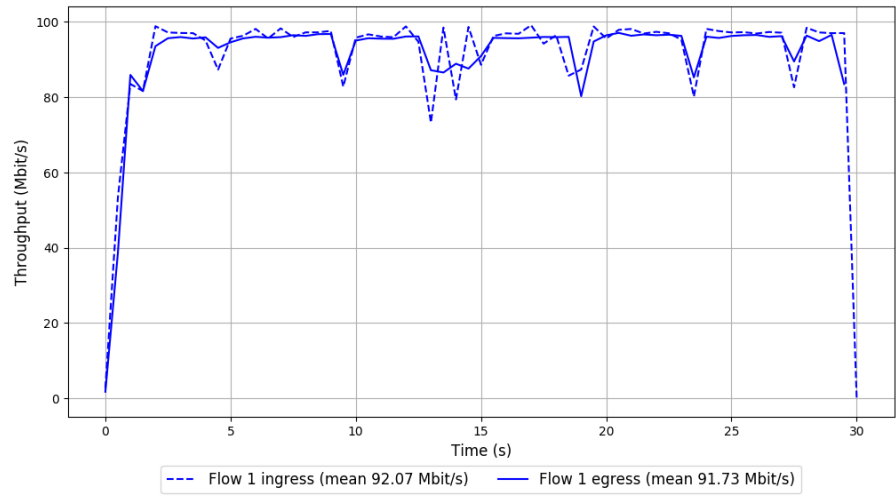


Run 4: Statistics of TCP BBR

Start at: 2018-03-20 12:08:40
End at: 2018-03-20 12:09:10
Local clock offset: 0.052 ms
Remote clock offset: -26.888 ms

Below is generated by plot.py at 2018-03-20 18:15:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.73 Mbit/s
95th percentile per-packet one-way delay: 113.680 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 91.73 Mbit/s
95th percentile per-packet one-way delay: 113.680 ms
Loss rate: 0.81%

Run 4: Report of TCP BBR — Data Link

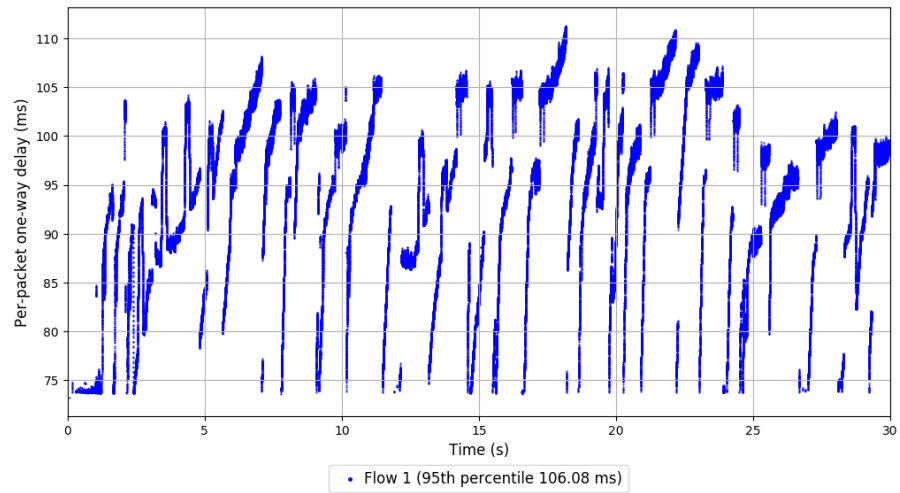
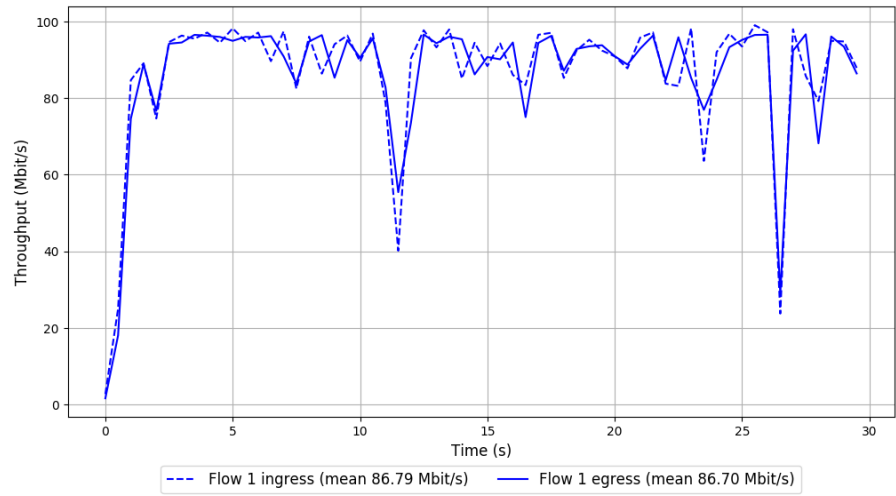


Run 5: Statistics of TCP BBR

Start at: 2018-03-20 12:30:32
End at: 2018-03-20 12:31:02
Local clock offset: -1.434 ms
Remote clock offset: -42.269 ms

Below is generated by plot.py at 2018-03-20 18:15:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.70 Mbit/s
95th percentile per-packet one-way delay: 106.085 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 86.70 Mbit/s
95th percentile per-packet one-way delay: 106.085 ms
Loss rate: 0.45%

Run 5: Report of TCP BBR — Data Link

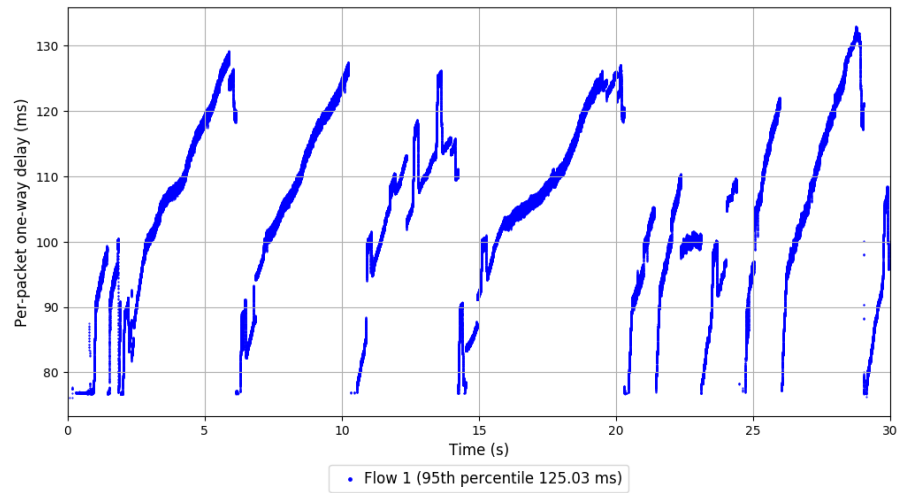
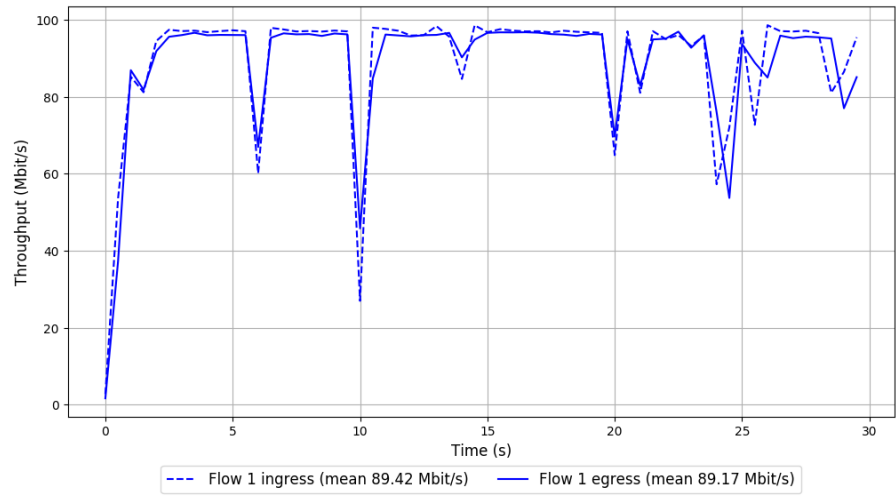


Run 6: Statistics of TCP BBR

Start at: 2018-03-20 12:53:21
End at: 2018-03-20 12:53:51
Local clock offset: 4.143 ms
Remote clock offset: -43.961 ms

Below is generated by plot.py at 2018-03-20 18:15:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.17 Mbit/s
95th percentile per-packet one-way delay: 125.033 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 89.17 Mbit/s
95th percentile per-packet one-way delay: 125.033 ms
Loss rate: 0.69%

Run 6: Report of TCP BBR — Data Link

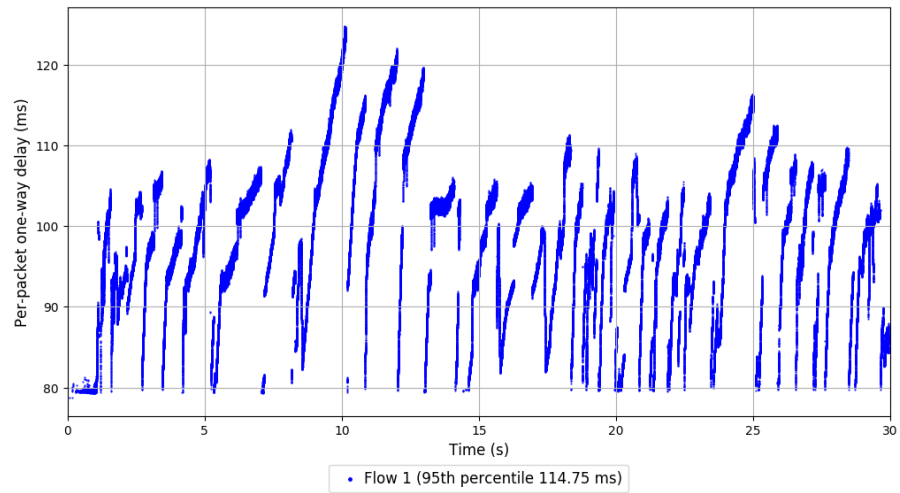
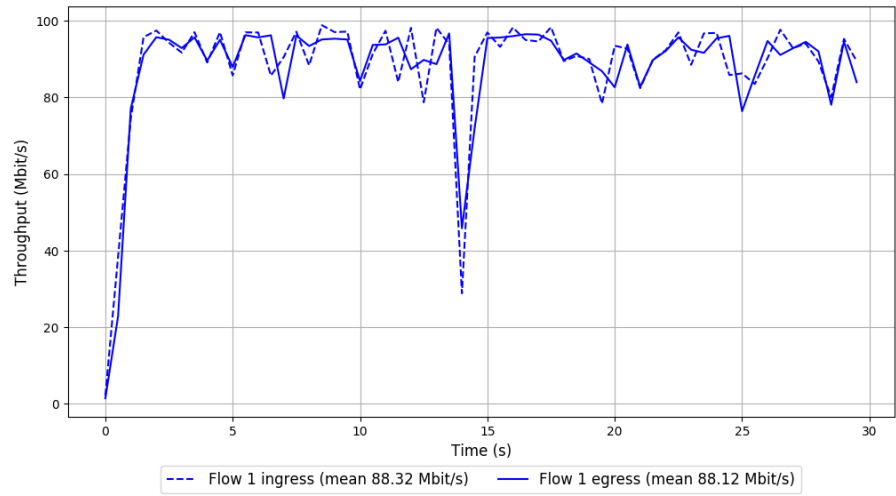


Run 7: Statistics of TCP BBR

Start at: 2018-03-20 13:15:15
End at: 2018-03-20 13:15:45
Local clock offset: -3.447 ms
Remote clock offset: -43.728 ms

Below is generated by plot.py at 2018-03-20 18:15:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.12 Mbit/s
95th percentile per-packet one-way delay: 114.752 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 88.12 Mbit/s
95th percentile per-packet one-way delay: 114.752 ms
Loss rate: 0.59%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

/home/ubuntu/pantheon_data/2018-03-20T10-43-China-to-AWS-Korea-10-runs/bbr_stats_run8.log d

Run 8: Report of TCP BBR — Data Link

Figure is missing

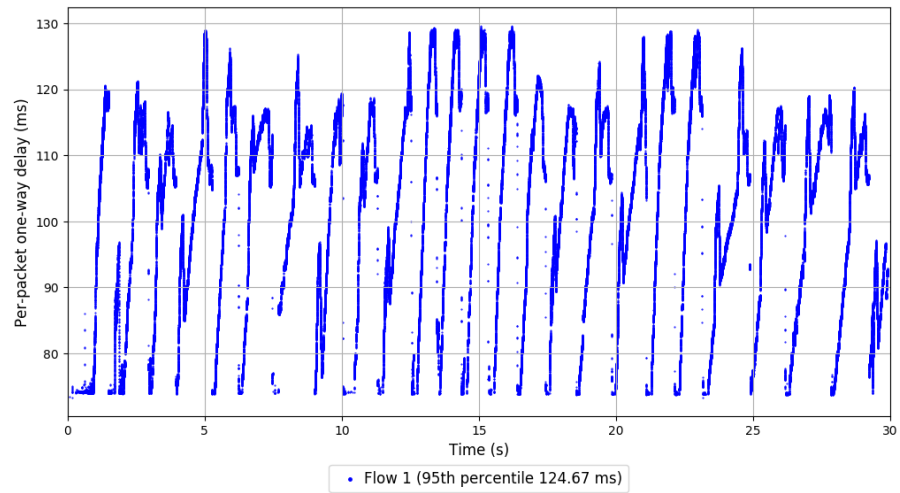
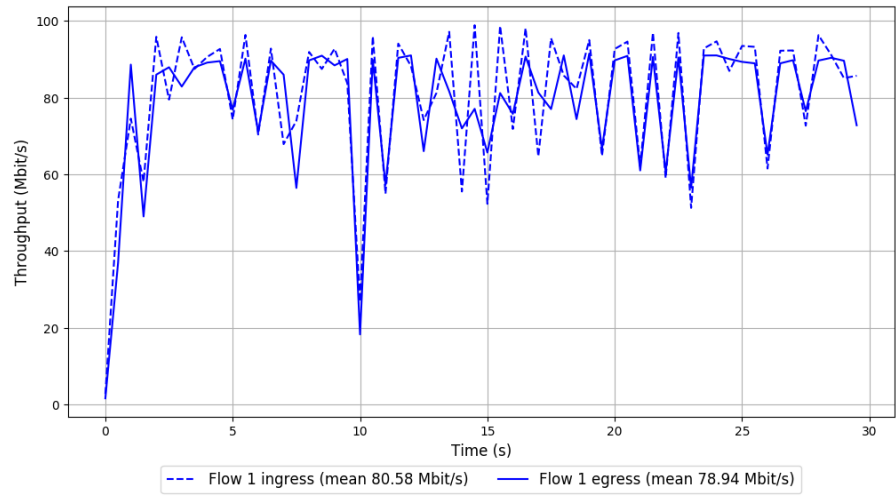
Figure is missing

Run 9: Statistics of TCP BBR

Start at: 2018-03-20 14:00:00
End at: 2018-03-20 14:00:30
Local clock offset: 4.77 ms
Remote clock offset: -39.844 ms

Below is generated by plot.py at 2018-03-20 18:15:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 78.94 Mbit/s
95th percentile per-packet one-way delay: 124.675 ms
Loss rate: 2.46%
-- Flow 1:
Average throughput: 78.94 Mbit/s
95th percentile per-packet one-way delay: 124.675 ms
Loss rate: 2.46%

Run 9: Report of TCP BBR — Data Link

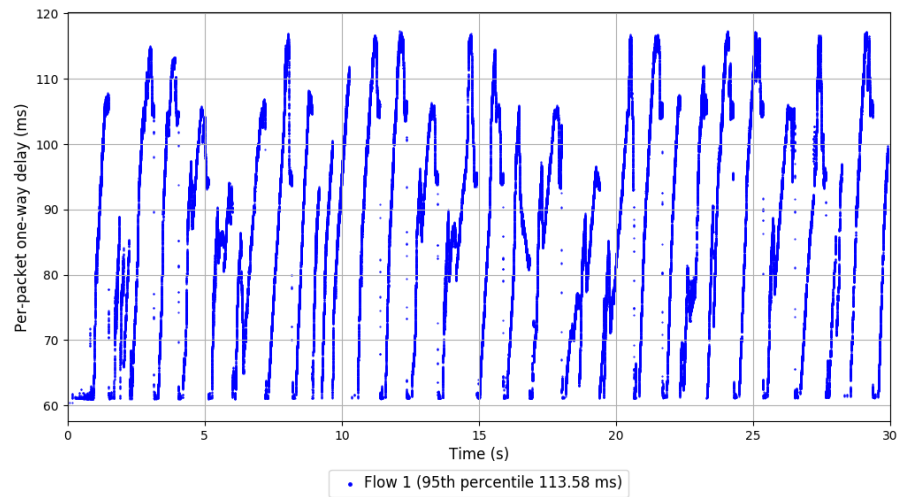
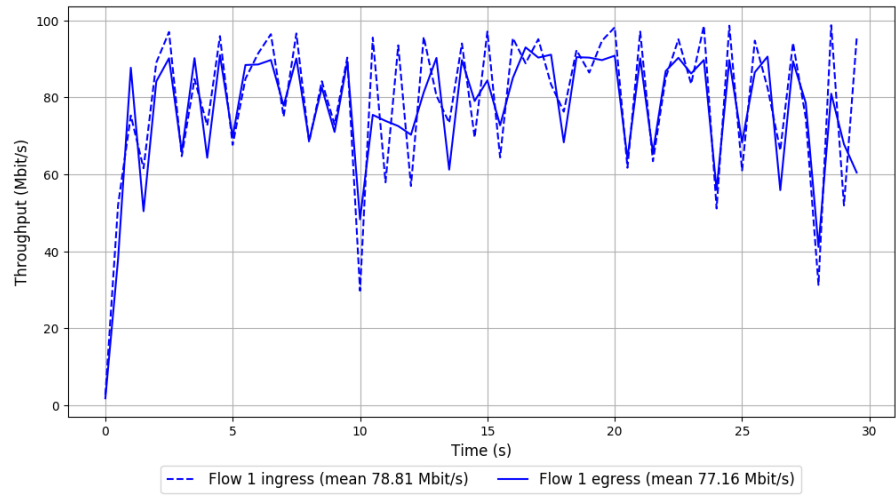


Run 10: Statistics of TCP BBR

Start at: 2018-03-20 14:21:47
End at: 2018-03-20 14:22:17
Local clock offset: 6.473 ms
Remote clock offset: -27.061 ms

Below is generated by plot.py at 2018-03-20 18:16:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.16 Mbit/s
95th percentile per-packet one-way delay: 113.583 ms
Loss rate: 2.57%
-- Flow 1:
Average throughput: 77.16 Mbit/s
95th percentile per-packet one-way delay: 113.583 ms
Loss rate: 2.57%

Run 10: Report of TCP BBR — Data Link

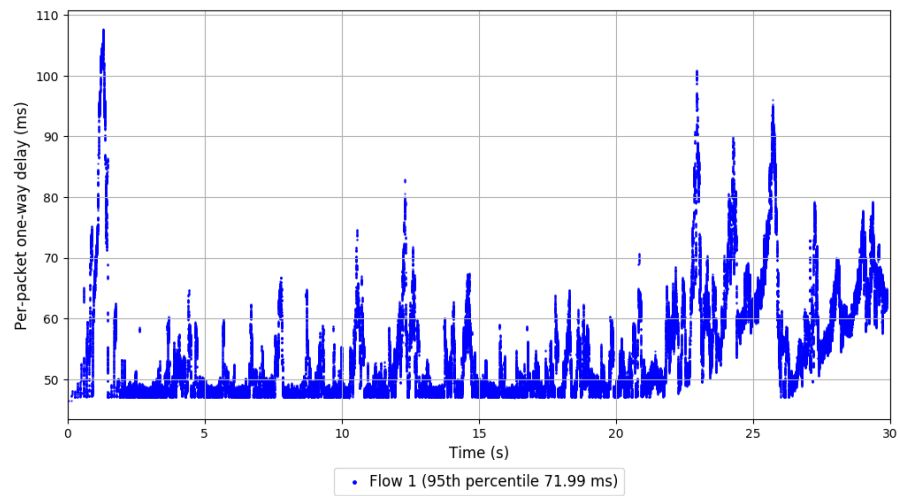
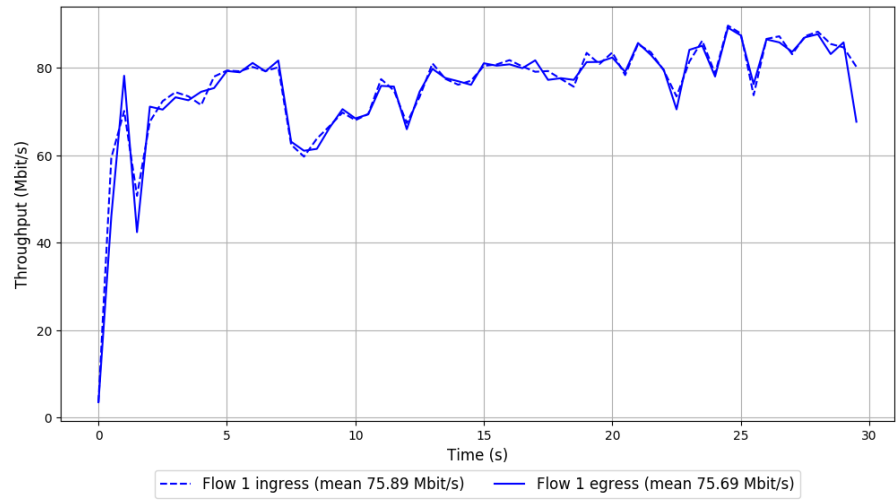


Run 1: Statistics of TCP Cubic

Start at: 2018-03-20 10:48:49
End at: 2018-03-20 10:49:19
Local clock offset: 3.873 ms
Remote clock offset: -15.752 ms

Below is generated by plot.py at 2018-03-20 18:16:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 75.69 Mbit/s
95th percentile per-packet one-way delay: 71.987 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 75.69 Mbit/s
95th percentile per-packet one-way delay: 71.987 ms
Loss rate: 0.67%

Run 1: Report of TCP Cubic — Data Link

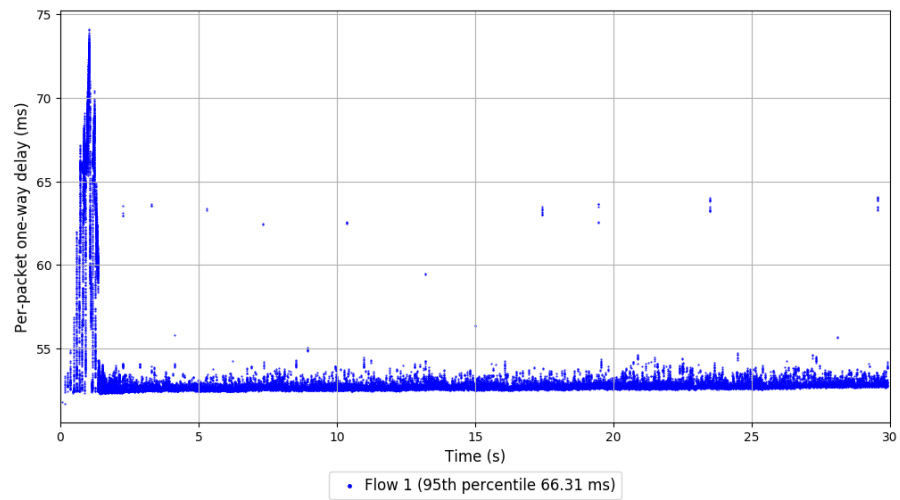
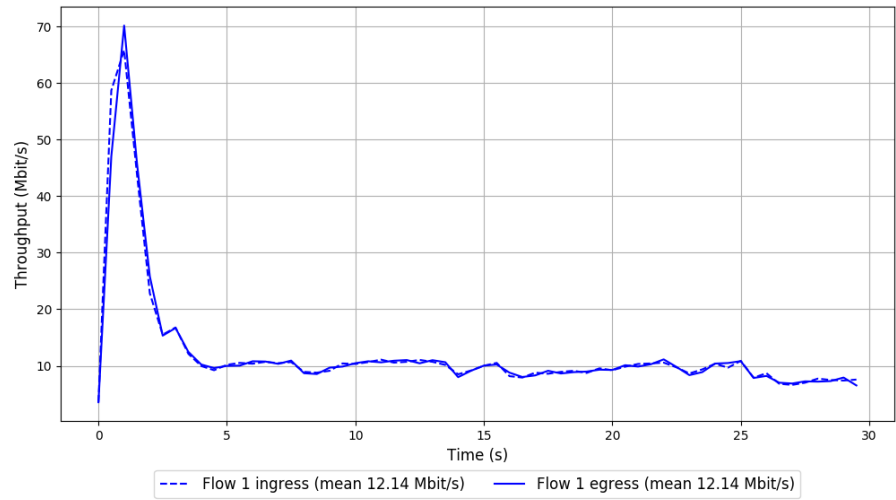


Run 2: Statistics of TCP Cubic

Start at: 2018-03-20 11:10:35
End at: 2018-03-20 11:11:05
Local clock offset: -10.692 ms
Remote clock offset: -19.401 ms

Below is generated by plot.py at 2018-03-20 18:16:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.14 Mbit/s
95th percentile per-packet one-way delay: 66.311 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 12.14 Mbit/s
95th percentile per-packet one-way delay: 66.311 ms
Loss rate: 0.40%

Run 2: Report of TCP Cubic — Data Link

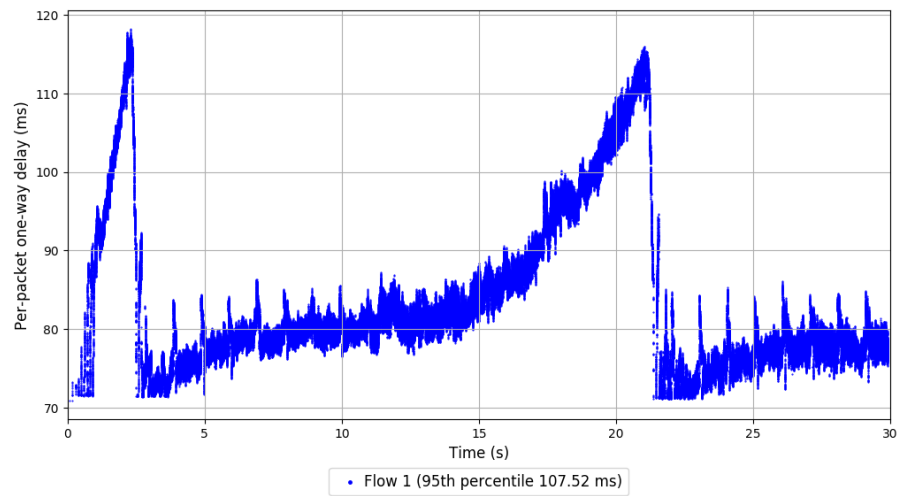
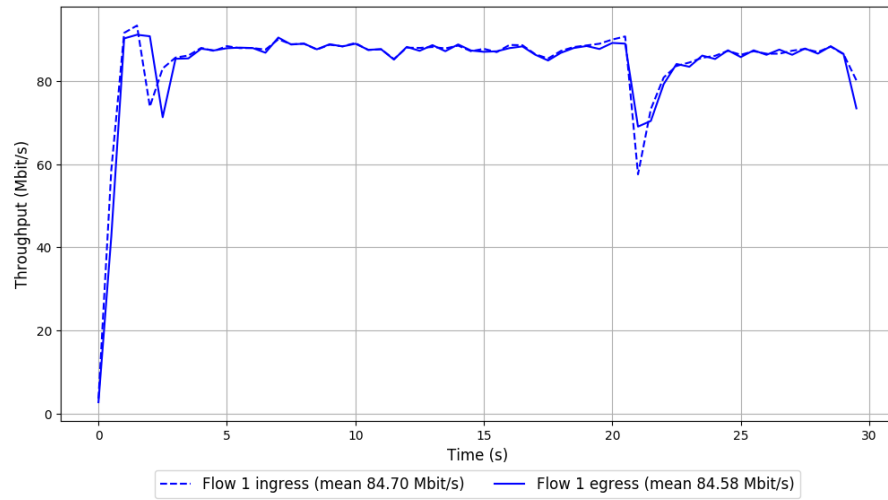


Run 3: Statistics of TCP Cubic

Start at: 2018-03-20 11:32:20
End at: 2018-03-20 11:32:50
Local clock offset: -5.522 ms
Remote clock offset: -37.657 ms

Below is generated by plot.py at 2018-03-20 18:16:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.58 Mbit/s
95th percentile per-packet one-way delay: 107.517 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 84.58 Mbit/s
95th percentile per-packet one-way delay: 107.517 ms
Loss rate: 0.50%

Run 3: Report of TCP Cubic — Data Link

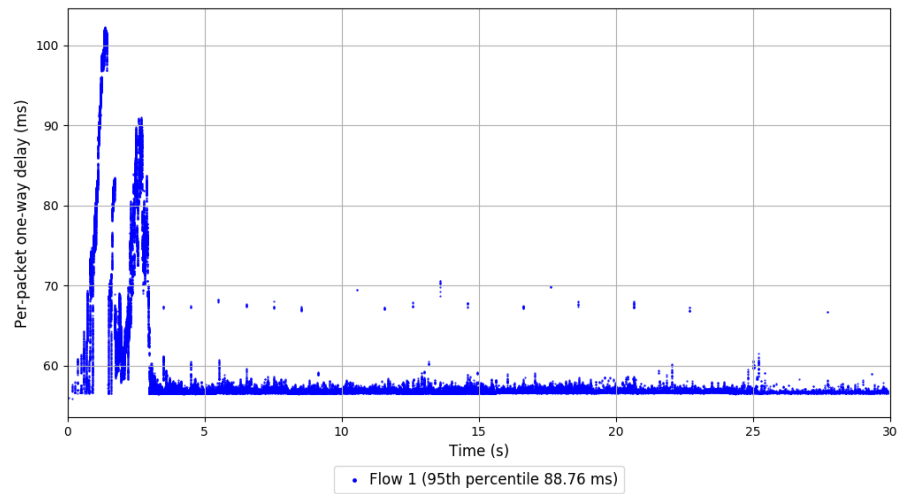
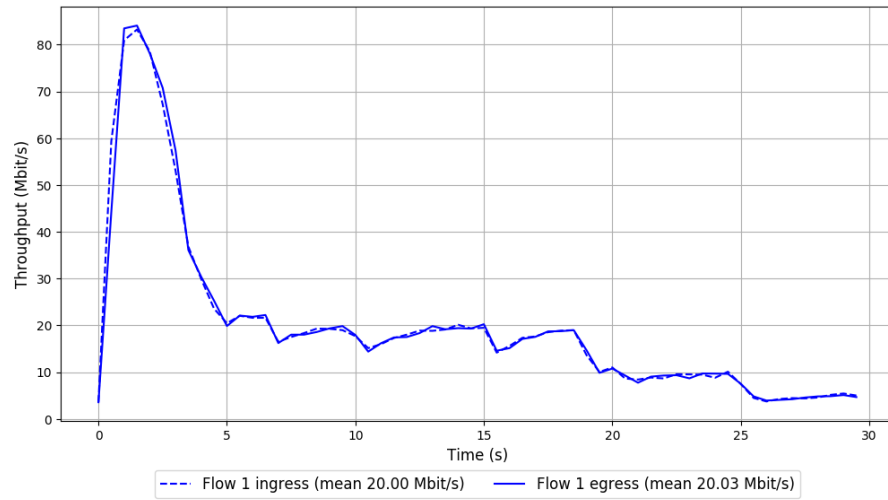


Run 4: Statistics of TCP Cubic

Start at: 2018-03-20 11:54:47
End at: 2018-03-20 11:55:17
Local clock offset: 2.231 ms
Remote clock offset: -18.856 ms

Below is generated by plot.py at 2018-03-20 18:16:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.03 Mbit/s
95th percentile per-packet one-way delay: 88.759 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 20.03 Mbit/s
95th percentile per-packet one-way delay: 88.759 ms
Loss rate: 0.20%

Run 4: Report of TCP Cubic — Data Link

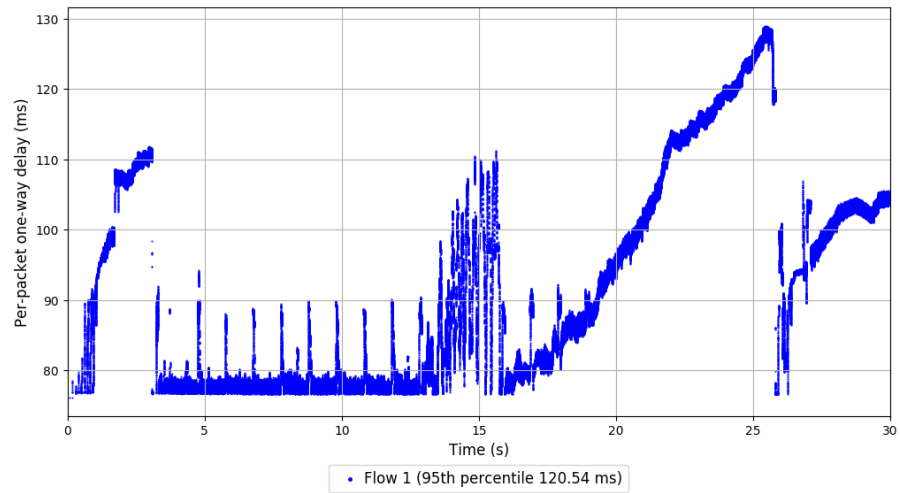
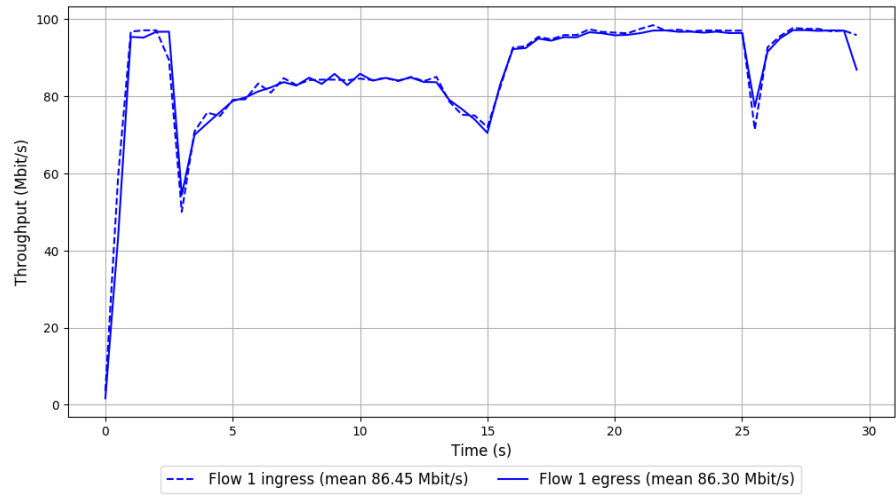


Run 5: Statistics of TCP Cubic

Start at: 2018-03-20 12:17:05
End at: 2018-03-20 12:17:35
Local clock offset: -0.693 ms
Remote clock offset: -43.153 ms

Below is generated by plot.py at 2018-03-20 18:16:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.30 Mbit/s
95th percentile per-packet one-way delay: 120.540 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 86.30 Mbit/s
95th percentile per-packet one-way delay: 120.540 ms
Loss rate: 0.59%

Run 5: Report of TCP Cubic — Data Link

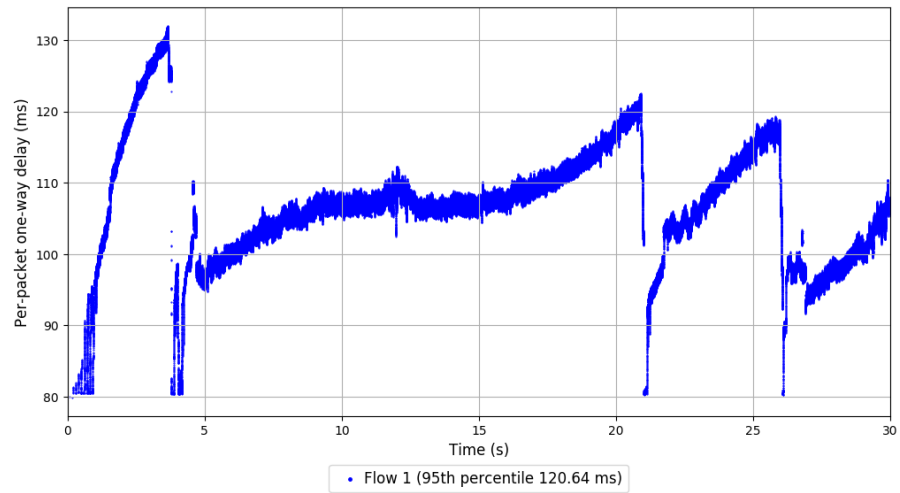
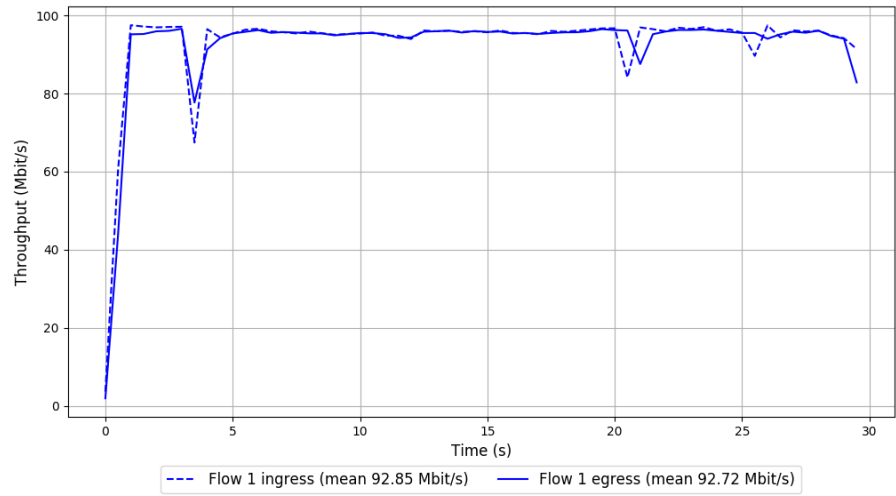


Run 6: Statistics of TCP Cubic

Start at: 2018-03-20 12:39:51
End at: 2018-03-20 12:40:21
Local clock offset: 1.507 ms
Remote clock offset: -50.817 ms

Below is generated by plot.py at 2018-03-20 18:17:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.72 Mbit/s
95th percentile per-packet one-way delay: 120.639 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 92.72 Mbit/s
95th percentile per-packet one-way delay: 120.639 ms
Loss rate: 0.57%

Run 6: Report of TCP Cubic — Data Link

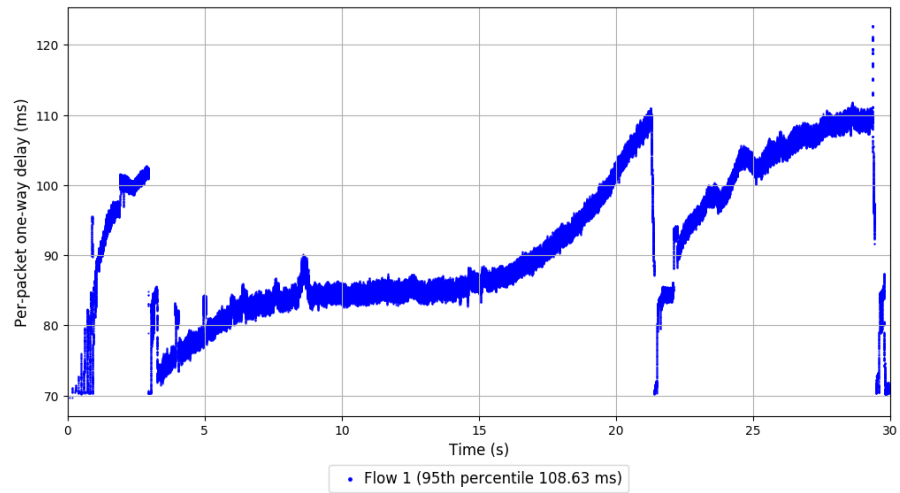
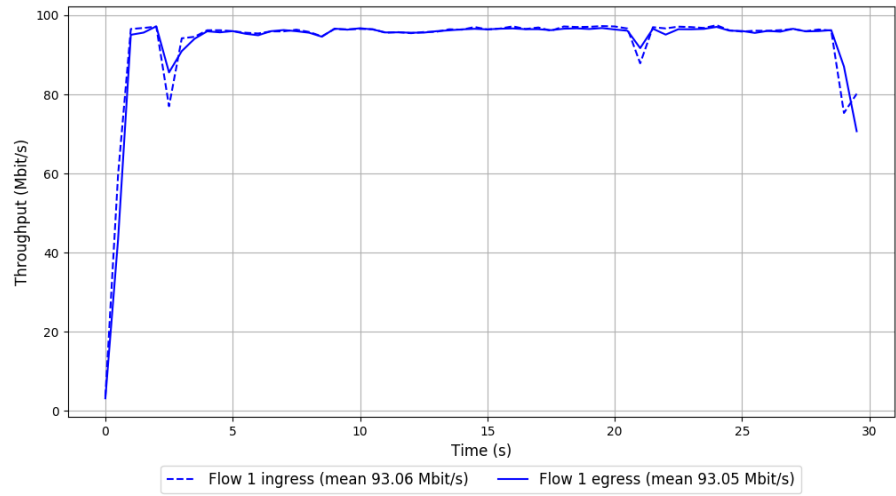


Run 7: Statistics of TCP Cubic

Start at: 2018-03-20 13:01:47
End at: 2018-03-20 13:02:17
Local clock offset: 4.757 ms
Remote clock offset: -35.954 ms

Below is generated by plot.py at 2018-03-20 18:17:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.05 Mbit/s
95th percentile per-packet one-way delay: 108.627 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 93.05 Mbit/s
95th percentile per-packet one-way delay: 108.627 ms
Loss rate: 0.36%

Run 7: Report of TCP Cubic — Data Link

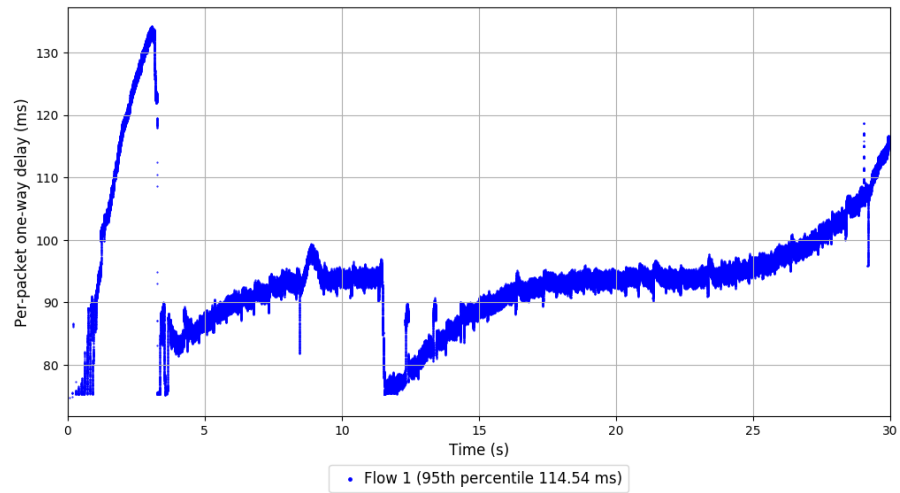
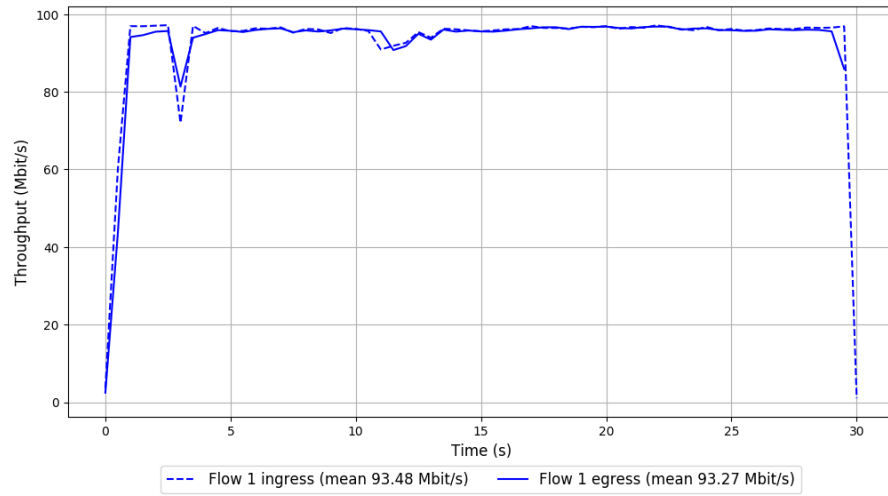


Run 8: Statistics of TCP Cubic

Start at: 2018-03-20 13:23:48
End at: 2018-03-20 13:24:18
Local clock offset: -8.765 ms
Remote clock offset: -40.473 ms

Below is generated by plot.py at 2018-03-20 18:17:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.27 Mbit/s
95th percentile per-packet one-way delay: 114.539 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 93.27 Mbit/s
95th percentile per-packet one-way delay: 114.539 ms
Loss rate: 0.66%

Run 8: Report of TCP Cubic — Data Link

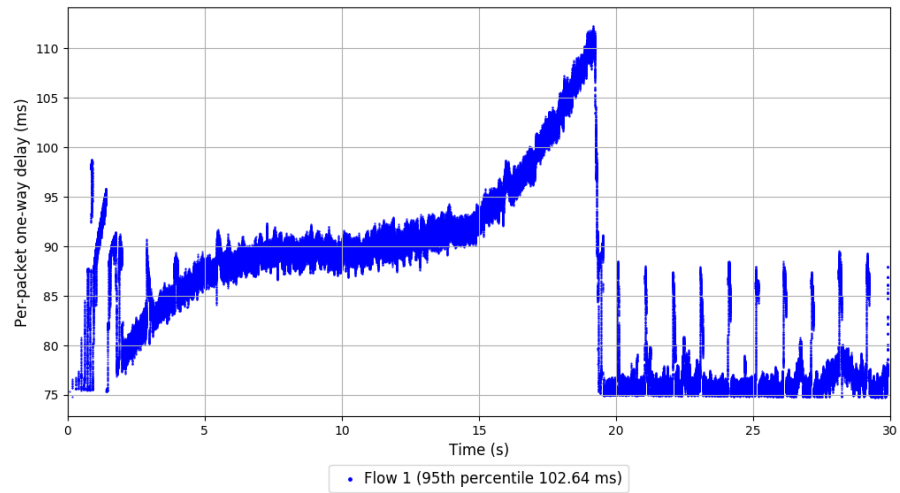
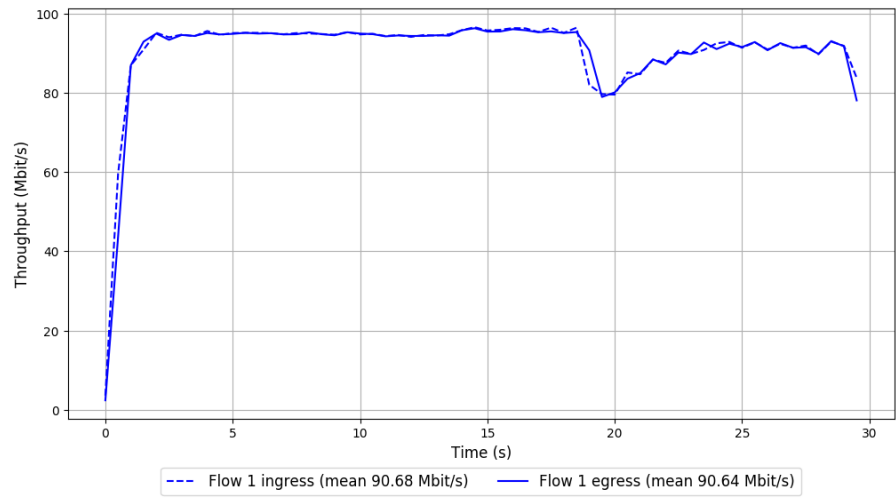


Run 9: Statistics of TCP Cubic

Start at: 2018-03-20 13:46:32
End at: 2018-03-20 13:47:02
Local clock offset: -7.176 ms
Remote clock offset: -41.93 ms

Below is generated by plot.py at 2018-03-20 18:17:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.64 Mbit/s
95th percentile per-packet one-way delay: 102.641 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 90.64 Mbit/s
95th percentile per-packet one-way delay: 102.641 ms
Loss rate: 0.38%

Run 9: Report of TCP Cubic — Data Link

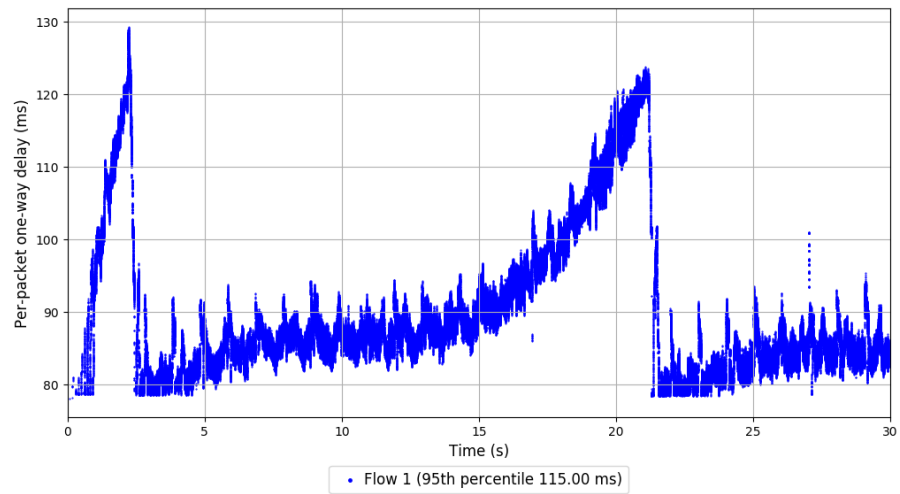
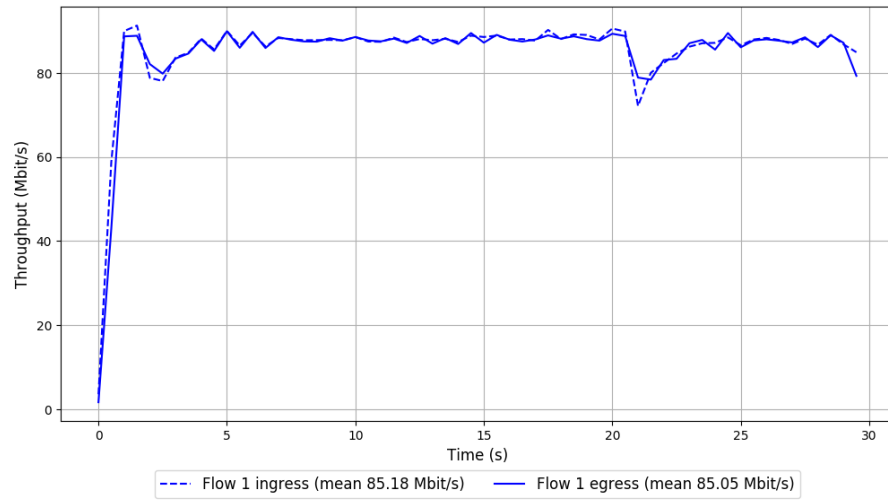


Run 10: Statistics of TCP Cubic

Start at: 2018-03-20 14:08:24
End at: 2018-03-20 14:08:54
Local clock offset: 7.988 ms
Remote clock offset: -44.384 ms

Below is generated by plot.py at 2018-03-20 18:17:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 85.05 Mbit/s
95th percentile per-packet one-way delay: 115.000 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 85.05 Mbit/s
95th percentile per-packet one-way delay: 115.000 ms
Loss rate: 0.51%

Run 10: Report of TCP Cubic — Data Link

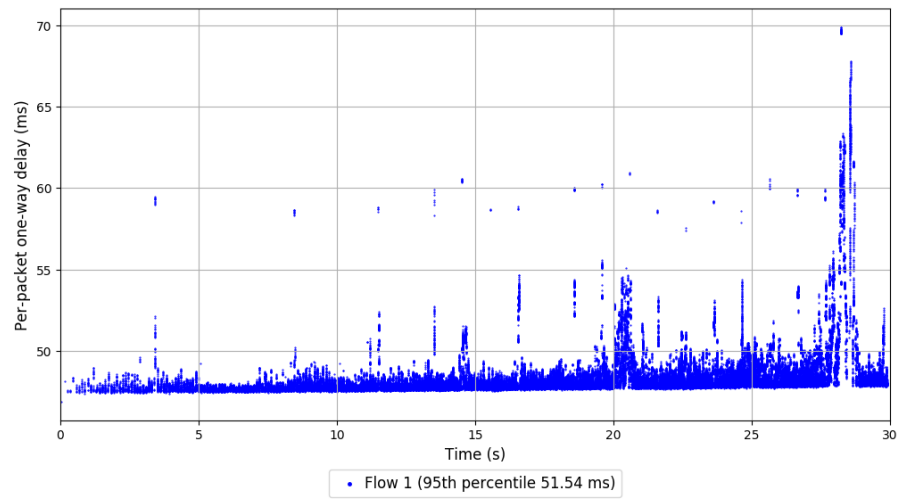
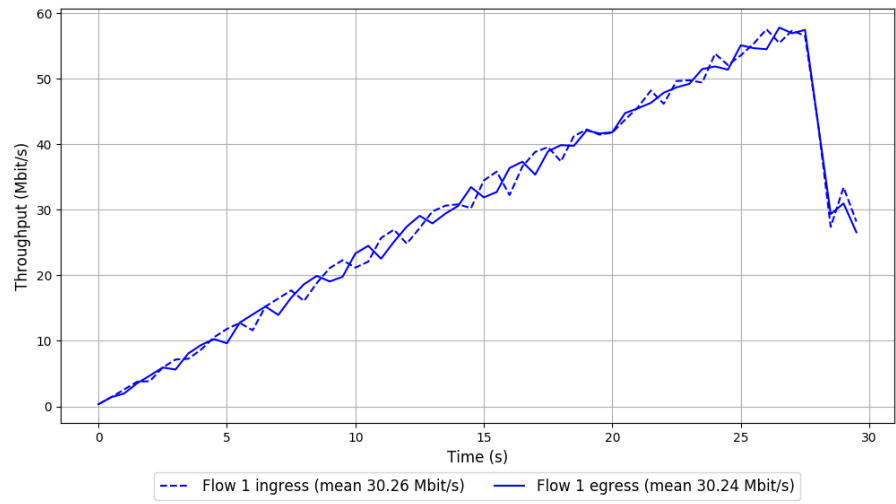


```
Run 1: Statistics of LEDBAT

Start at: 2018-03-20 11:04:40
End at: 2018-03-20 11:05:10
Local clock offset: -10.997 ms
Remote clock offset: -18.365 ms

# Below is generated by plot.py at 2018-03-20 18:17:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 30.24 Mbit/s
95th percentile per-packet one-way delay: 51.537 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 30.24 Mbit/s
95th percentile per-packet one-way delay: 51.537 ms
Loss rate: 0.41%
```

Run 1: Report of LEDBAT — Data Link

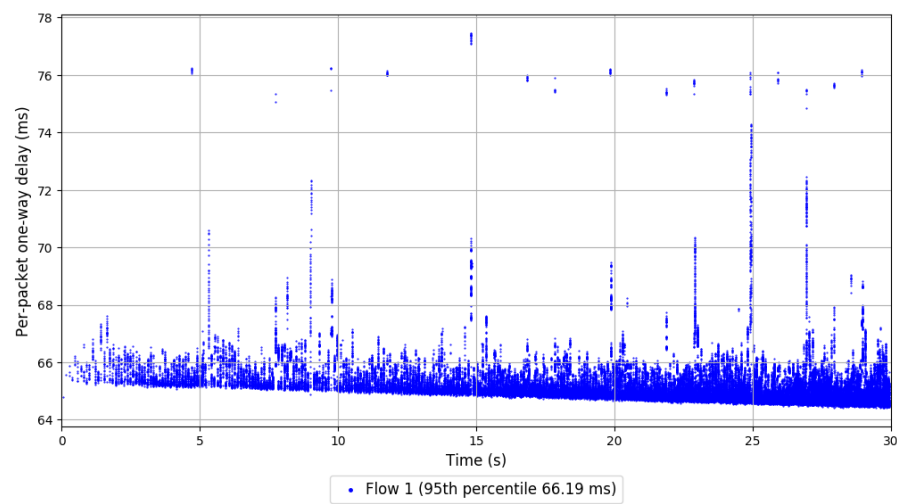
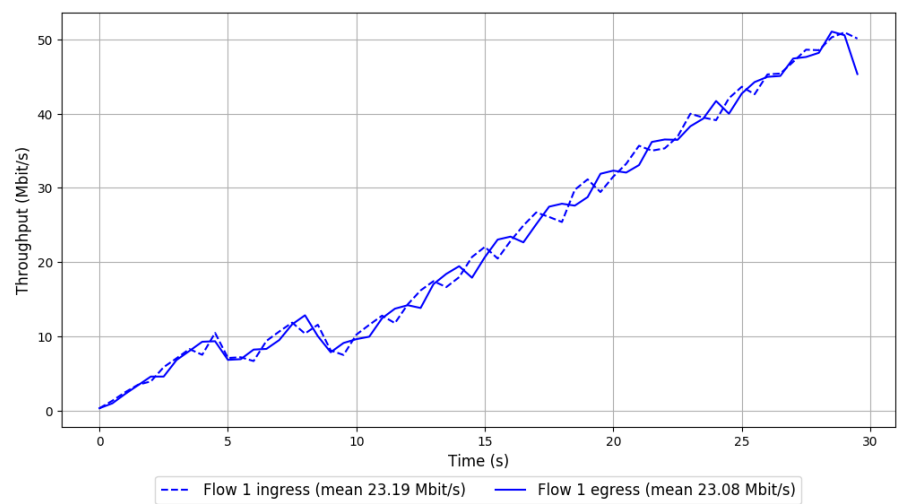


Run 2: Statistics of LEDBAT

Start at: 2018-03-20 11:26:23
End at: 2018-03-20 11:26:53
Local clock offset: -12.963 ms
Remote clock offset: -32.198 ms

Below is generated by plot.py at 2018-03-20 18:17:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 23.08 Mbit/s
95th percentile per-packet one-way delay: 66.195 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 23.08 Mbit/s
95th percentile per-packet one-way delay: 66.195 ms
Loss rate: 0.80%

Run 2: Report of LEDBAT — Data Link

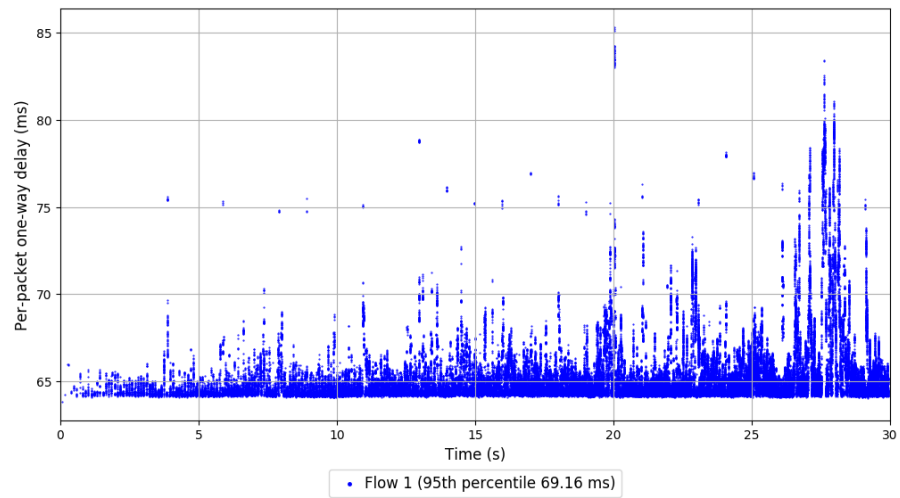
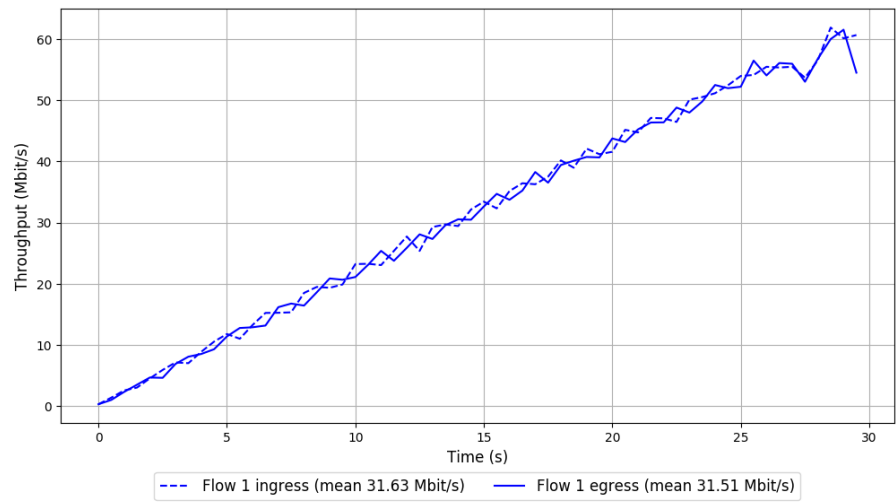


Run 3: Statistics of LEDBAT

Start at: 2018-03-20 11:48:53
End at: 2018-03-20 11:49:23
Local clock offset: 1.573 ms
Remote clock offset: -27.231 ms

Below is generated by plot.py at 2018-03-20 18:17:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 31.51 Mbit/s
95th percentile per-packet one-way delay: 69.162 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 31.51 Mbit/s
95th percentile per-packet one-way delay: 69.162 ms
Loss rate: 0.70%

Run 3: Report of LEDBAT — Data Link

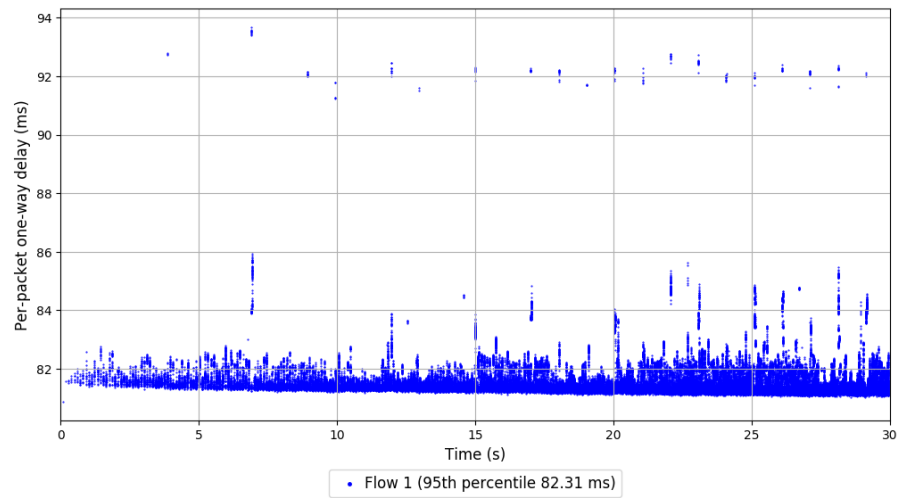
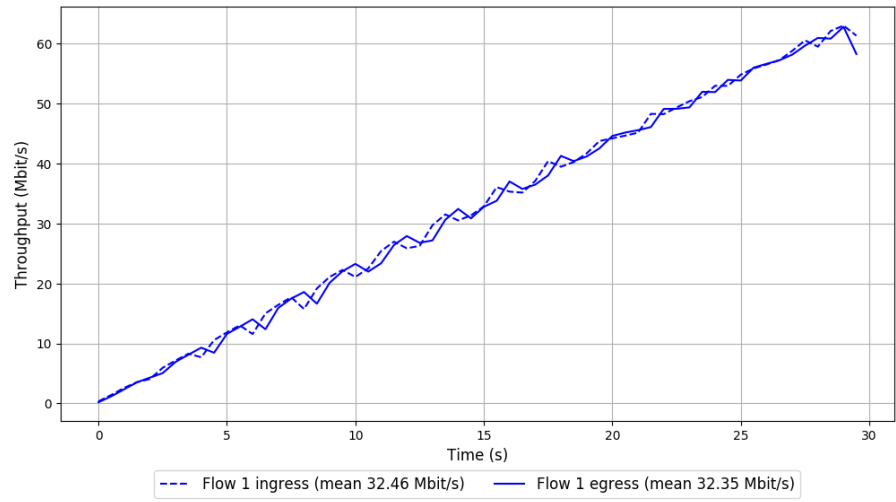


Run 4: Statistics of LEDBAT

Start at: 2018-03-20 12:11:08
End at: 2018-03-20 12:11:38
Local clock offset: -0.09 ms
Remote clock offset: -44.992 ms

Below is generated by plot.py at 2018-03-20 18:17:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 32.35 Mbit/s
95th percentile per-packet one-way delay: 82.307 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 32.35 Mbit/s
95th percentile per-packet one-way delay: 82.307 ms
Loss rate: 0.70%

Run 4: Report of LEDBAT — Data Link

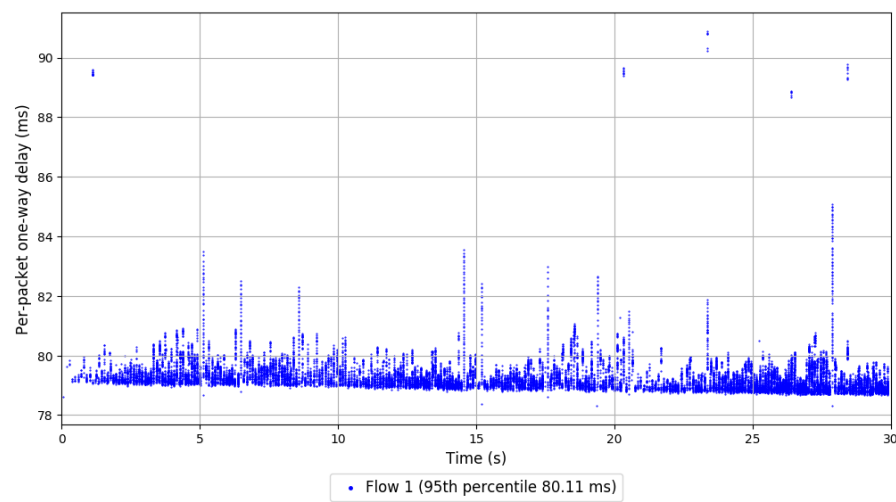
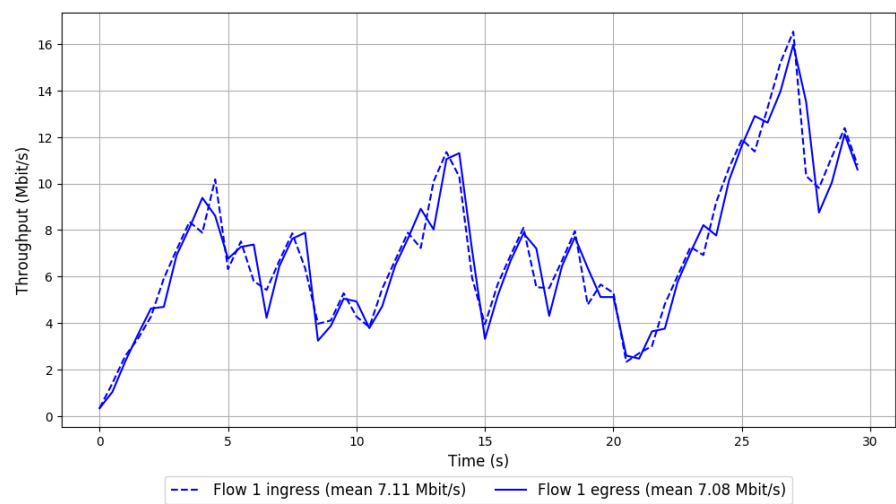


Run 5: Statistics of LEDBAT

Start at: 2018-03-20 12:33:13
End at: 2018-03-20 12:33:43
Local clock offset: -1.774 ms
Remote clock offset: -48.743 ms

Below is generated by plot.py at 2018-03-20 18:17:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.08 Mbit/s
95th percentile per-packet one-way delay: 80.114 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 7.08 Mbit/s
95th percentile per-packet one-way delay: 80.114 ms
Loss rate: 0.81%

Run 5: Report of LEDBAT — Data Link

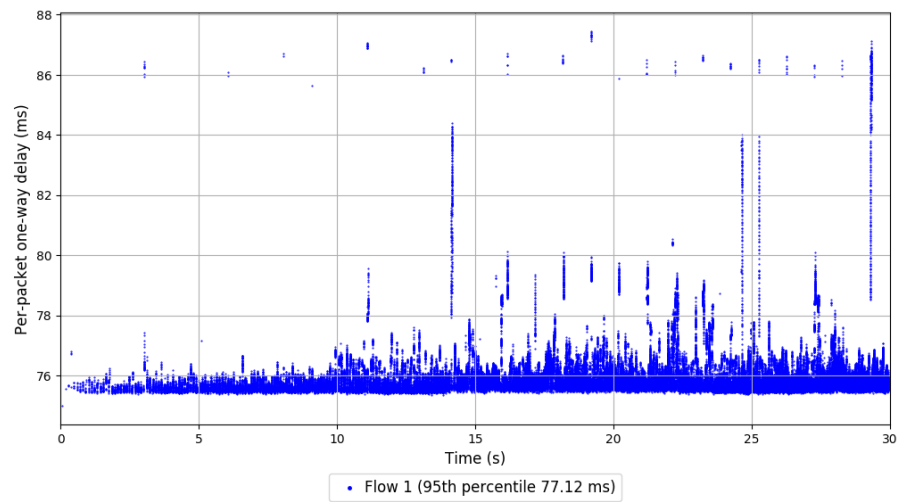
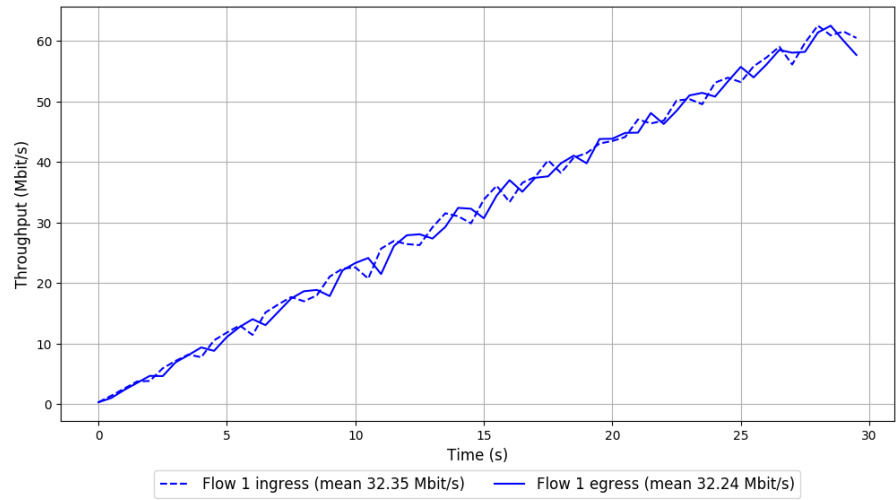


Run 6: Statistics of LEDBAT

Start at: 2018-03-20 12:55:49
End at: 2018-03-20 12:56:19
Local clock offset: 4.25 ms
Remote clock offset: -42.031 ms

Below is generated by plot.py at 2018-03-20 18:17:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 32.24 Mbit/s
95th percentile per-packet one-way delay: 77.119 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 32.24 Mbit/s
95th percentile per-packet one-way delay: 77.119 ms
Loss rate: 0.70%

Run 6: Report of LEDBAT — Data Link

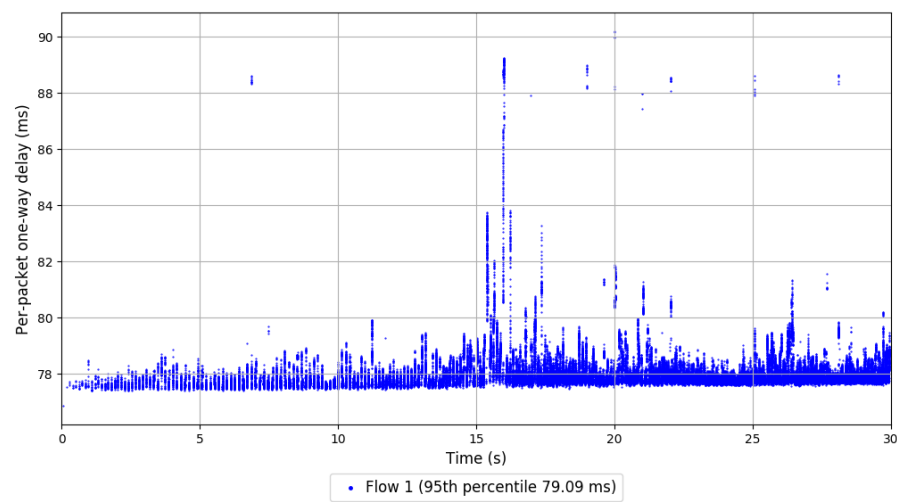
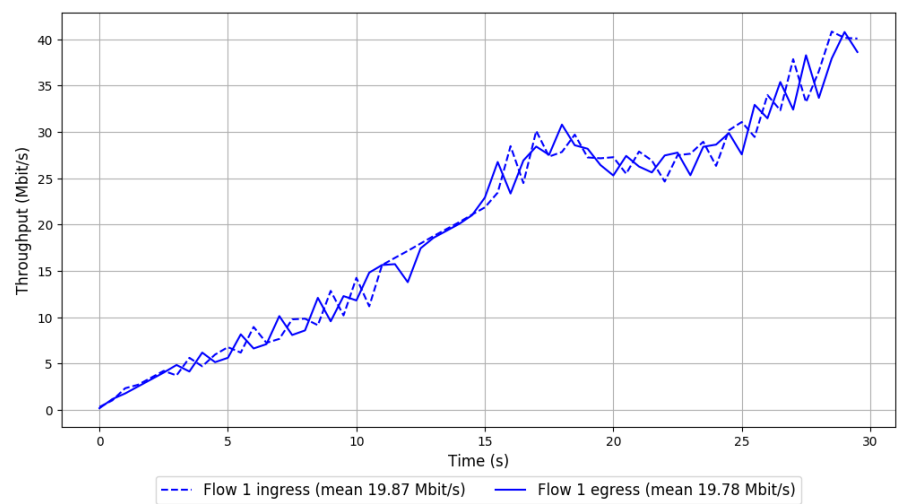


Run 7: Statistics of LEDBAT

Start at: 2018-03-20 13:17:50
End at: 2018-03-20 13:18:20
Local clock offset: -5.379 ms
Remote clock offset: -41.564 ms

Below is generated by plot.py at 2018-03-20 18:17:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 19.78 Mbit/s
95th percentile per-packet one-way delay: 79.089 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 19.78 Mbit/s
95th percentile per-packet one-way delay: 79.089 ms
Loss rate: 0.86%

Run 7: Report of LEDBAT — Data Link

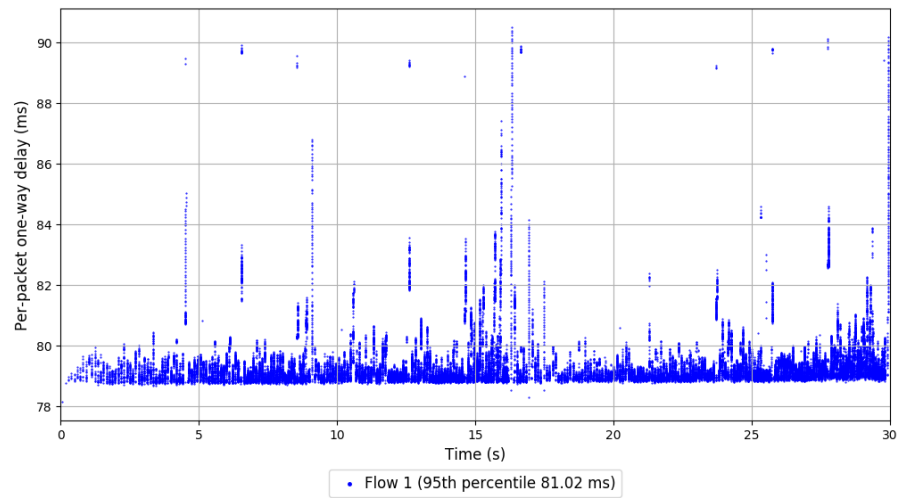
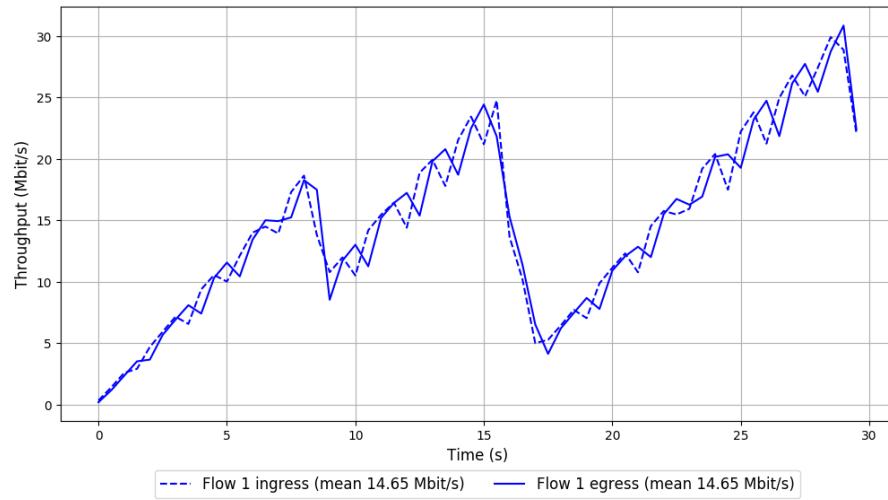


Run 8: Statistics of LEDBAT

Start at: 2018-03-20 13:40:38
End at: 2018-03-20 13:41:08
Local clock offset: -14.116 ms
Remote clock offset: -43.721 ms

Below is generated by plot.py at 2018-03-20 18:17:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 14.65 Mbit/s
95th percentile per-packet one-way delay: 81.017 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 14.65 Mbit/s
95th percentile per-packet one-way delay: 81.017 ms
Loss rate: 0.41%

Run 8: Report of LEDBAT — Data Link

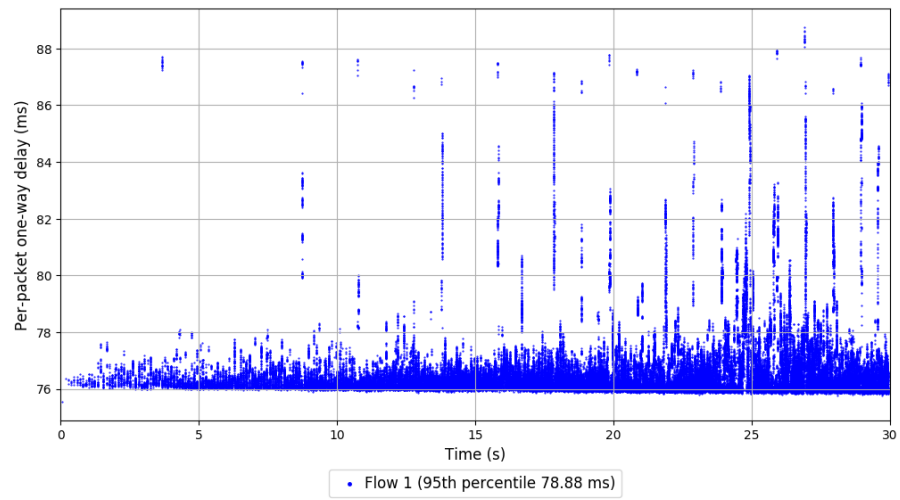
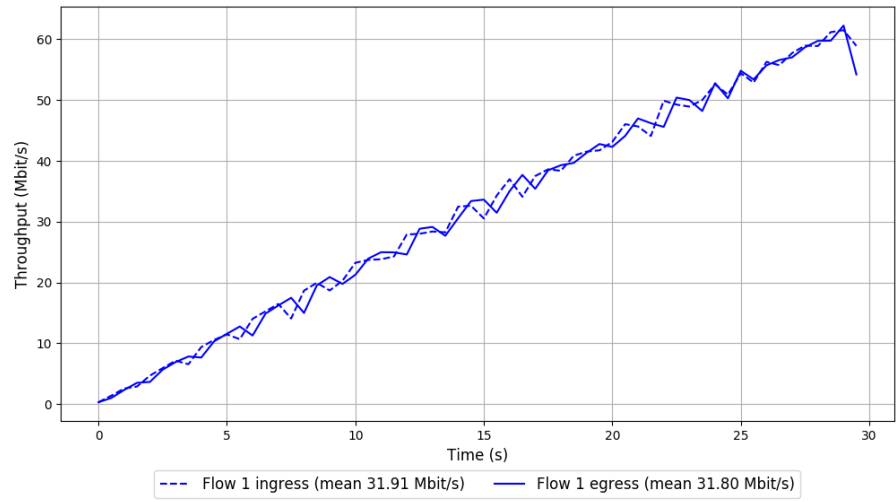


Run 9: Statistics of LEDBAT

Start at: 2018-03-20 14:02:27
End at: 2018-03-20 14:02:57
Local clock offset: 5.787 ms
Remote clock offset: -41.97 ms

Below is generated by plot.py at 2018-03-20 18:17:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 31.80 Mbit/s
95th percentile per-packet one-way delay: 78.882 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 31.80 Mbit/s
95th percentile per-packet one-way delay: 78.882 ms
Loss rate: 0.70%

Run 9: Report of LEDBAT — Data Link

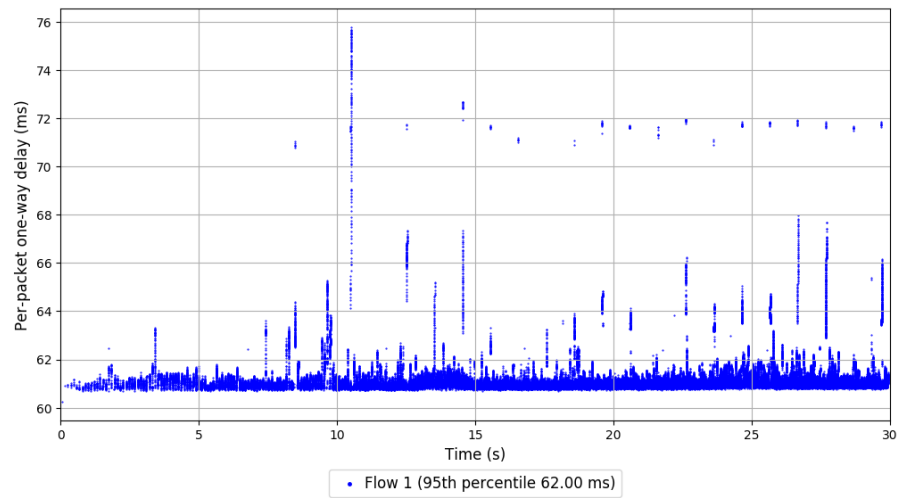
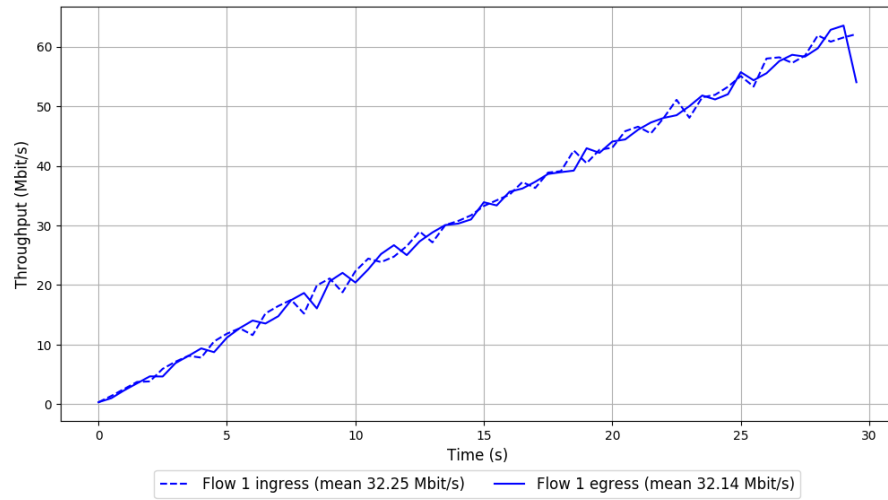


Run 10: Statistics of LEDBAT

Start at: 2018-03-20 14:24:15
End at: 2018-03-20 14:24:45
Local clock offset: 6.111 ms
Remote clock offset: -26.53 ms

Below is generated by plot.py at 2018-03-20 18:17:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 32.14 Mbit/s
95th percentile per-packet one-way delay: 61.998 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 32.14 Mbit/s
95th percentile per-packet one-way delay: 61.998 ms
Loss rate: 0.70%

Run 10: Report of LEDBAT — Data Link

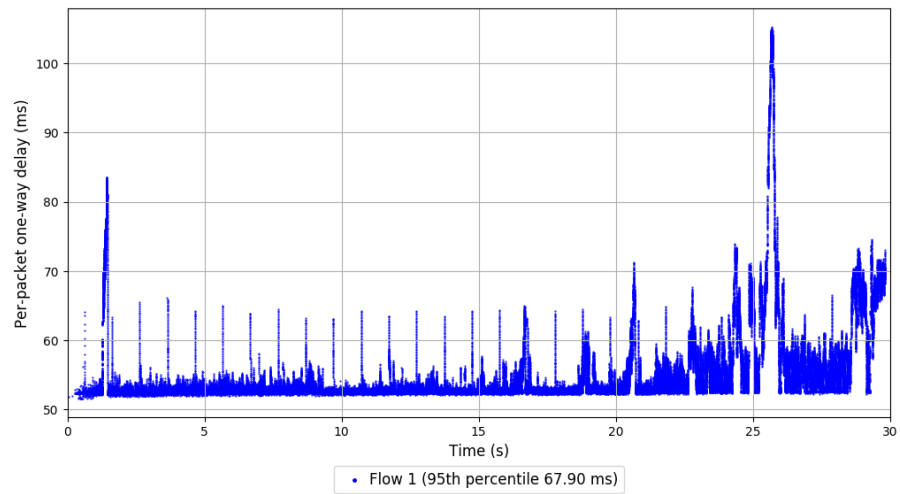
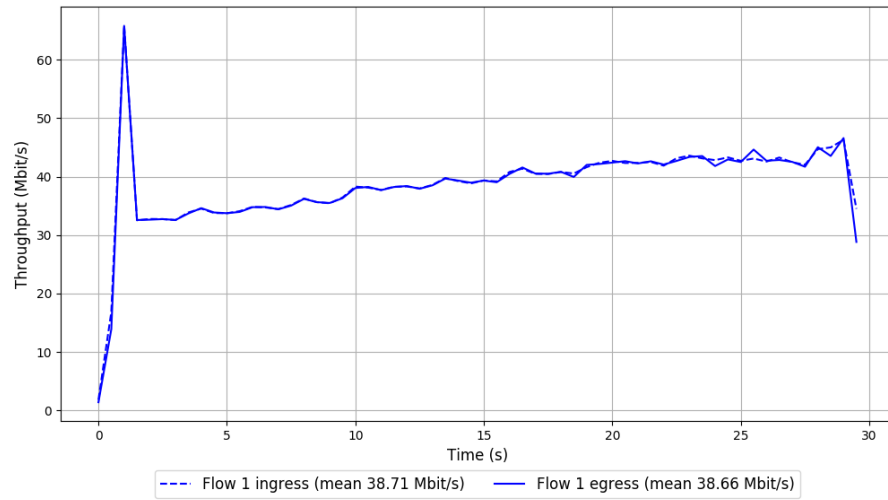


Run 1: Statistics of PCC

Start at: 2018-03-20 10:58:34
End at: 2018-03-20 10:59:04
Local clock offset: -4.244 ms
Remote clock offset: -21.856 ms

Below is generated by plot.py at 2018-03-20 18:17:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 38.66 Mbit/s
95th percentile per-packet one-way delay: 67.896 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 38.66 Mbit/s
95th percentile per-packet one-way delay: 67.896 ms
Loss rate: 0.51%

Run 1: Report of PCC — Data Link

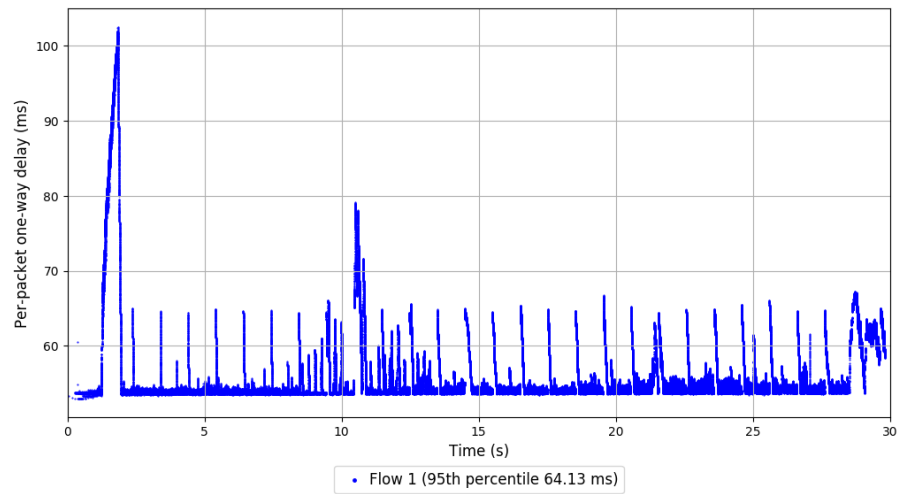
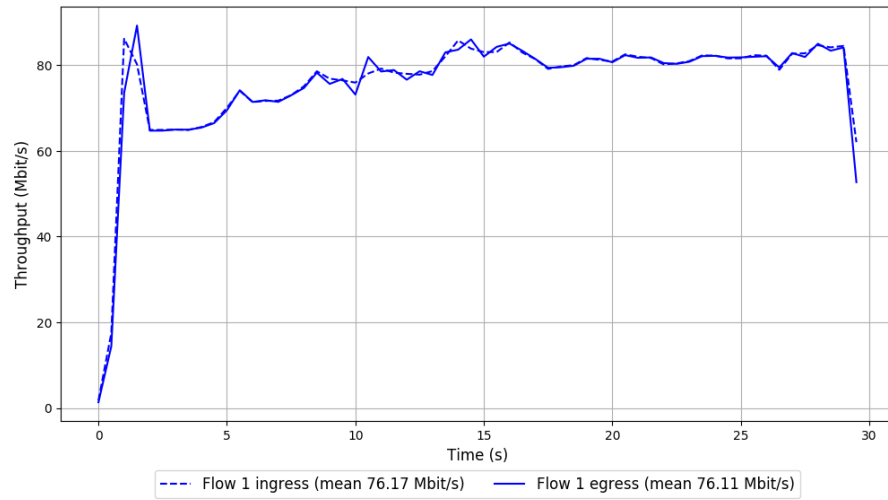


Run 2: Statistics of PCC

Start at: 2018-03-20 11:20:16
End at: 2018-03-20 11:20:46
Local clock offset: -13.573 ms
Remote clock offset: -19.671 ms

Below is generated by plot.py at 2018-03-20 18:18:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.11 Mbit/s
95th percentile per-packet one-way delay: 64.129 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 76.11 Mbit/s
95th percentile per-packet one-way delay: 64.129 ms
Loss rate: 0.44%

Run 2: Report of PCC — Data Link

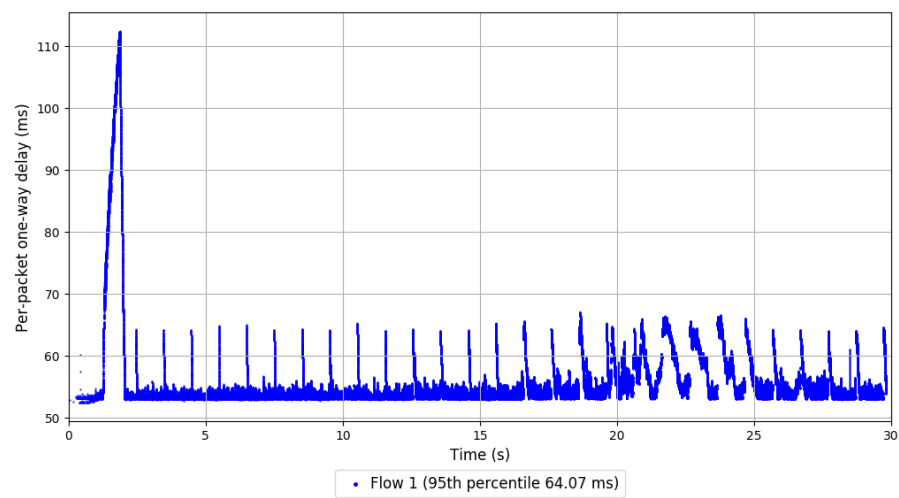
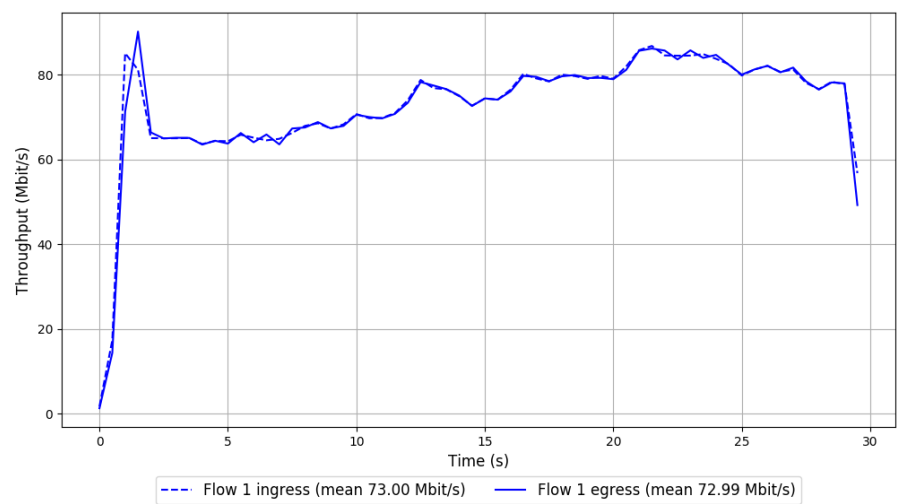


Run 3: Statistics of PCC

Start at: 2018-03-20 11:42:46
End at: 2018-03-20 11:43:16
Local clock offset: 0.252 ms
Remote clock offset: -17.645 ms

Below is generated by plot.py at 2018-03-20 18:18:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 72.99 Mbit/s
95th percentile per-packet one-way delay: 64.068 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 72.99 Mbit/s
95th percentile per-packet one-way delay: 64.068 ms
Loss rate: 0.36%

Run 3: Report of PCC — Data Link

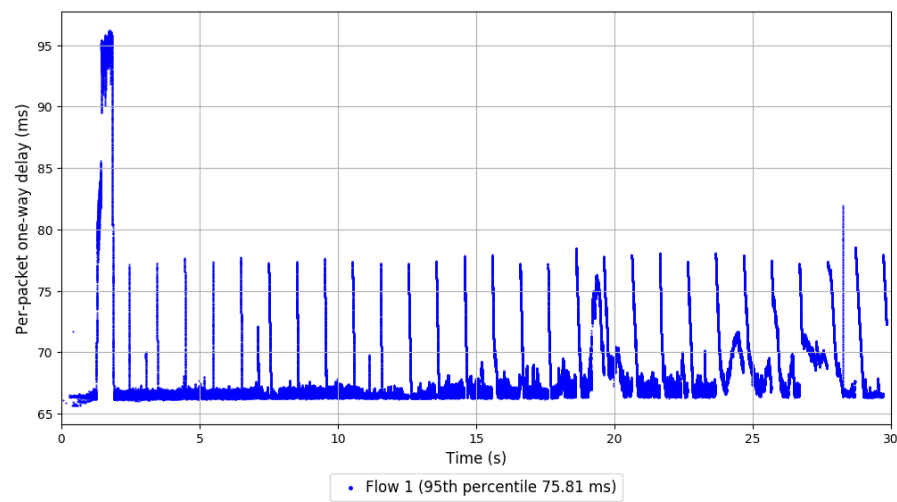
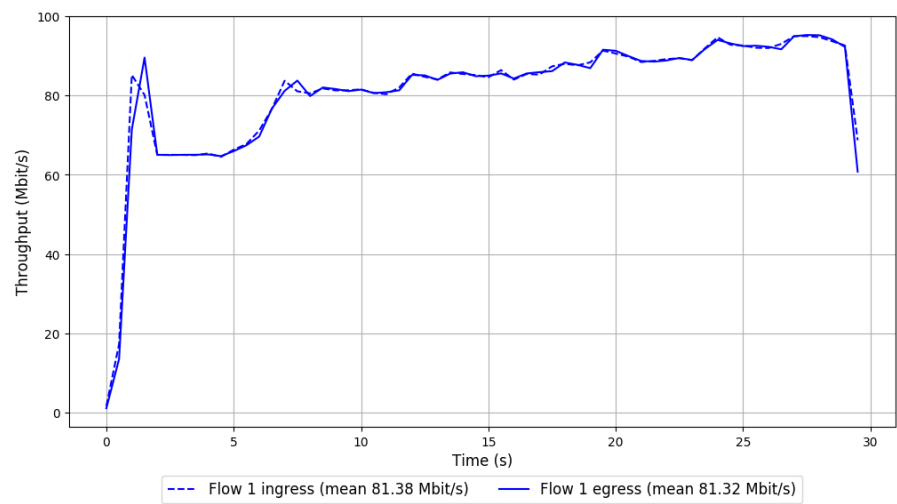


Run 4: Statistics of PCC

Start at: 2018-03-20 12:04:59
End at: 2018-03-20 12:05:29
Local clock offset: 1.052 ms
Remote clock offset: -27.956 ms

Below is generated by plot.py at 2018-03-20 18:18:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 81.32 Mbit/s
95th percentile per-packet one-way delay: 75.807 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 81.32 Mbit/s
95th percentile per-packet one-way delay: 75.807 ms
Loss rate: 0.42%

Run 4: Report of PCC — Data Link

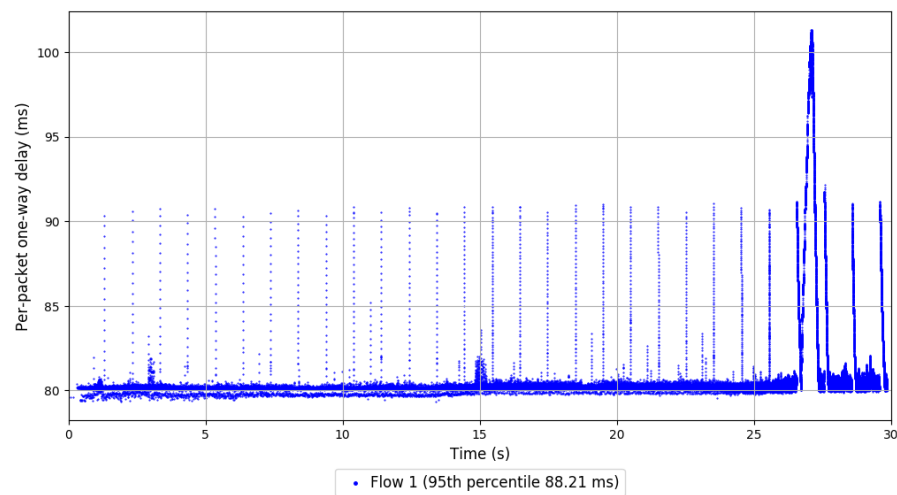
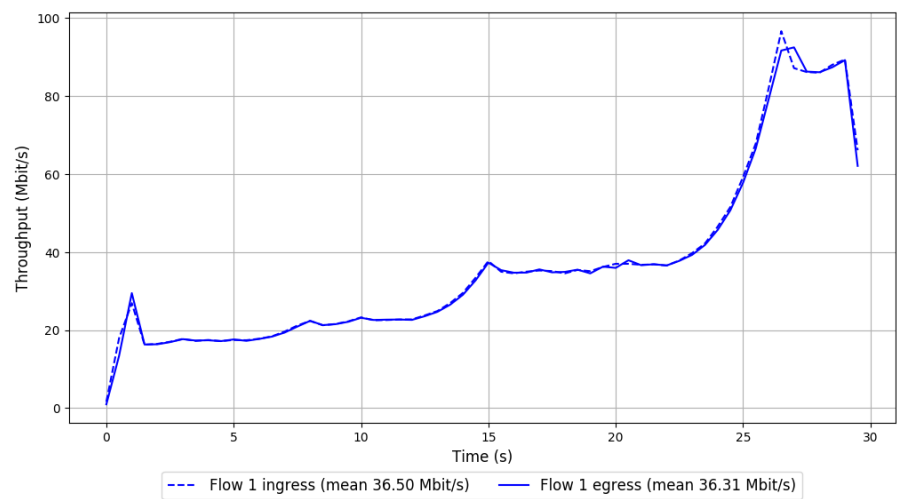


Run 5: Statistics of PCC

Start at: 2018-03-20 12:26:49
End at: 2018-03-20 12:27:19
Local clock offset: -1.281 ms
Remote clock offset: -48.168 ms

Below is generated by plot.py at 2018-03-20 18:18:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 36.31 Mbit/s
95th percentile per-packet one-way delay: 88.213 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 36.31 Mbit/s
95th percentile per-packet one-way delay: 88.213 ms
Loss rate: 0.84%

Run 5: Report of PCC — Data Link

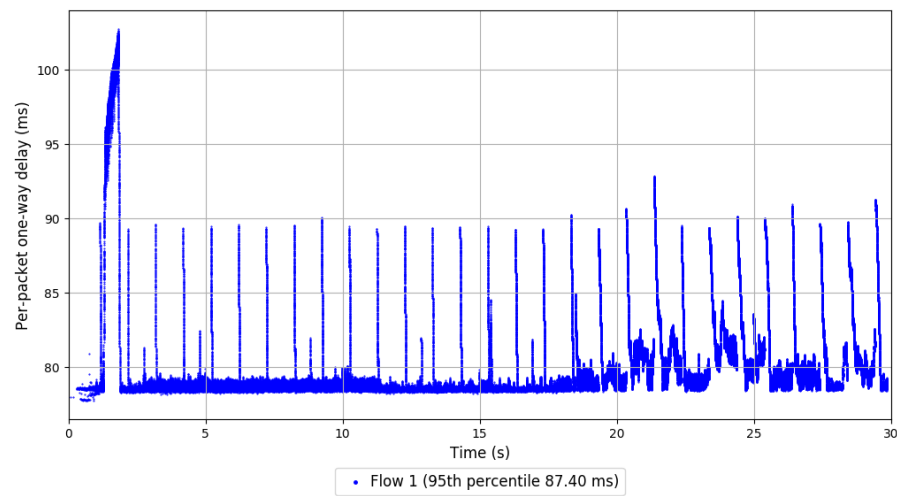
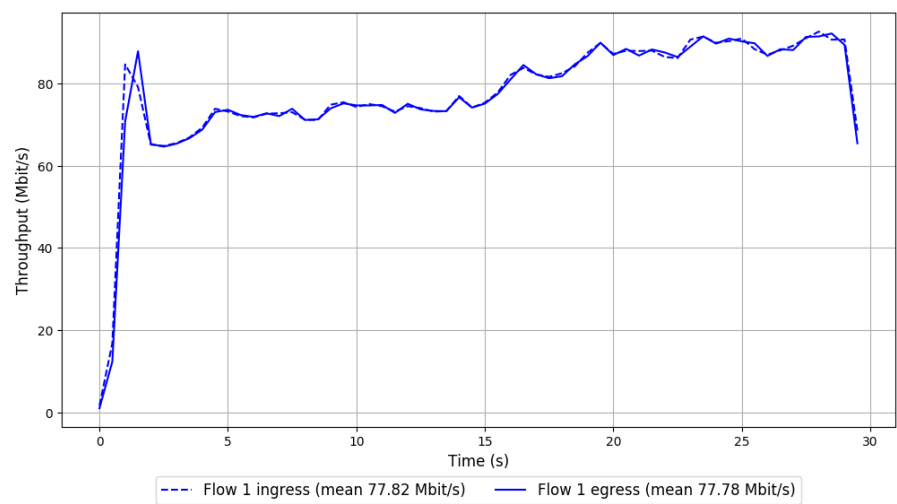


Run 6: Statistics of PCC

Start at: 2018-03-20 12:49:40
End at: 2018-03-20 12:50:10
Local clock offset: 3.986 ms
Remote clock offset: -45.69 ms

Below is generated by plot.py at 2018-03-20 18:18:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.78 Mbit/s
95th percentile per-packet one-way delay: 87.402 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 77.78 Mbit/s
95th percentile per-packet one-way delay: 87.402 ms
Loss rate: 0.40%

Run 6: Report of PCC — Data Link

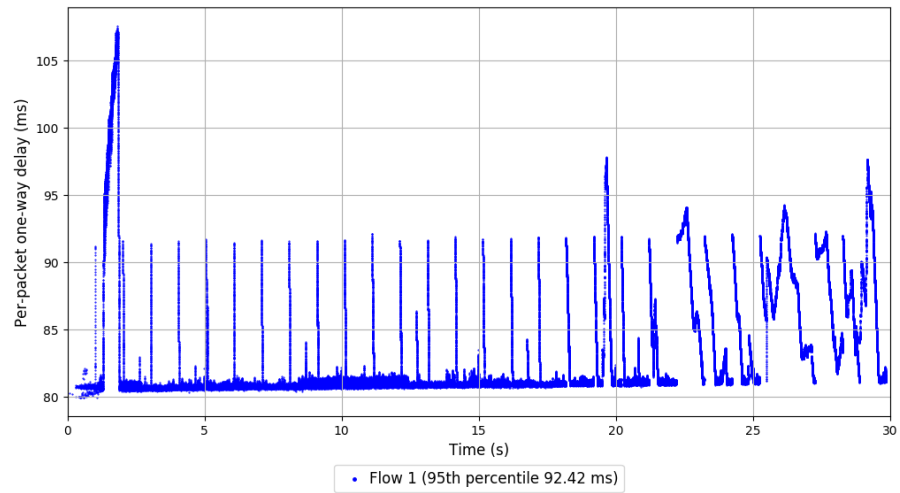
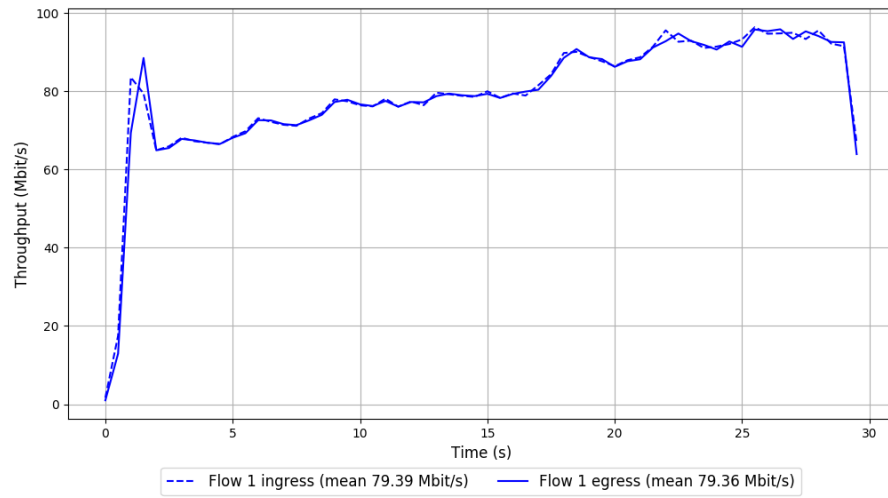


Run 7: Statistics of PCC

Start at: 2018-03-20 13:11:33
End at: 2018-03-20 13:12:03
Local clock offset: 0.201 ms
Remote clock offset: -45.017 ms

Below is generated by plot.py at 2018-03-20 18:19:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 79.36 Mbit/s
95th percentile per-packet one-way delay: 92.423 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 79.36 Mbit/s
95th percentile per-packet one-way delay: 92.423 ms
Loss rate: 0.39%

Run 7: Report of PCC — Data Link

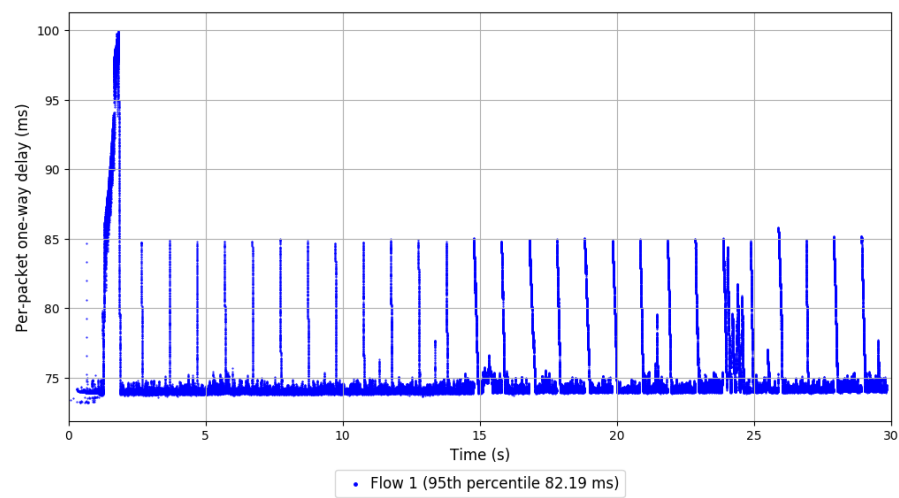
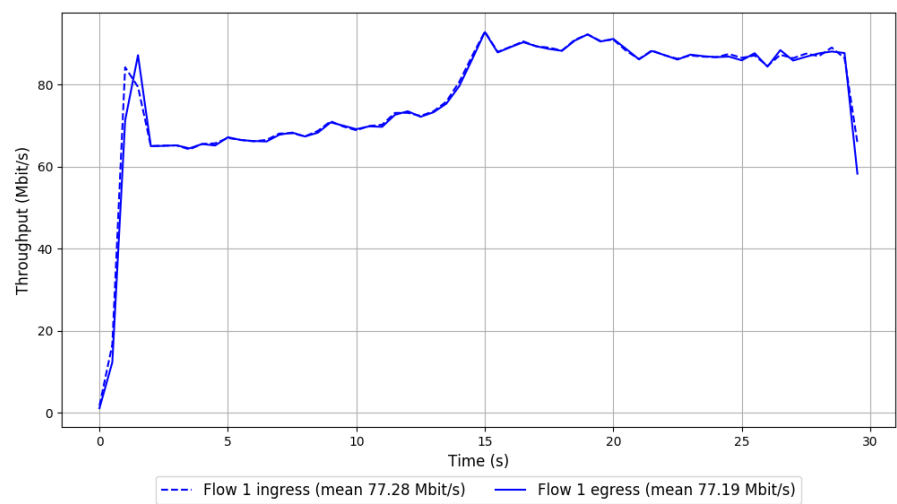


Run 8: Statistics of PCC

Start at: 2018-03-20 13:33:38
End at: 2018-03-20 13:34:08
Local clock offset: -11.888 ms
Remote clock offset: -38.727 ms

Below is generated by plot.py at 2018-03-20 18:19:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.19 Mbit/s
95th percentile per-packet one-way delay: 82.195 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 77.19 Mbit/s
95th percentile per-packet one-way delay: 82.195 ms
Loss rate: 0.49%

Run 8: Report of PCC — Data Link

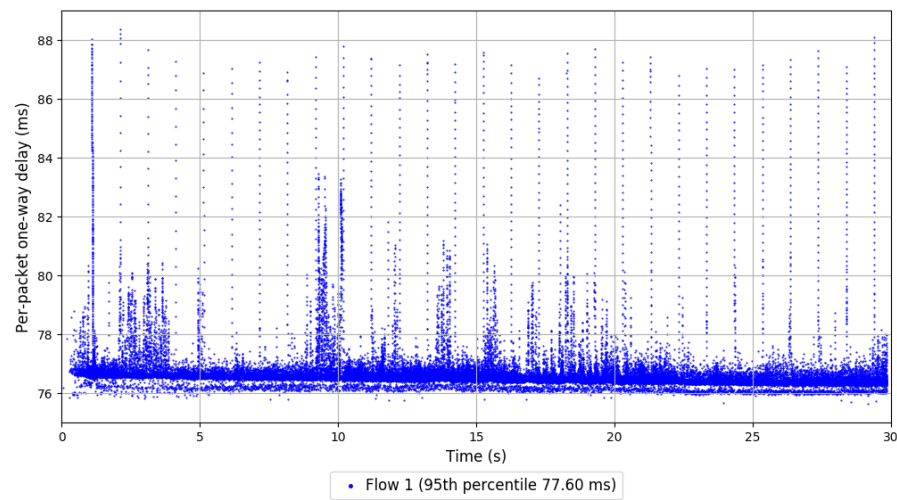
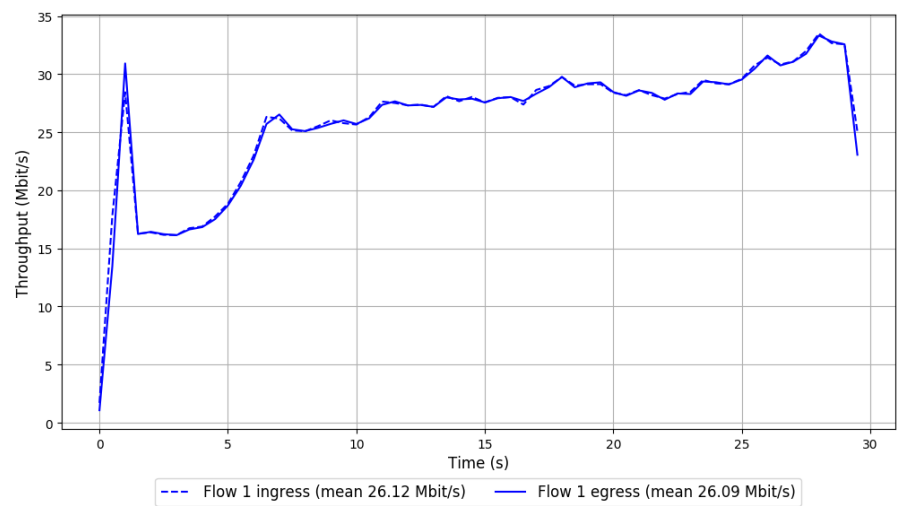


Run 9: Statistics of PCC

Start at: 2018-03-20 13:56:21
End at: 2018-03-20 13:56:51
Local clock offset: 2.717 ms
Remote clock offset: -42.951 ms

Below is generated by plot.py at 2018-03-20 18:19:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 26.09 Mbit/s
95th percentile per-packet one-way delay: 77.604 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 26.09 Mbit/s
95th percentile per-packet one-way delay: 77.604 ms
Loss rate: 0.45%

Run 9: Report of PCC — Data Link

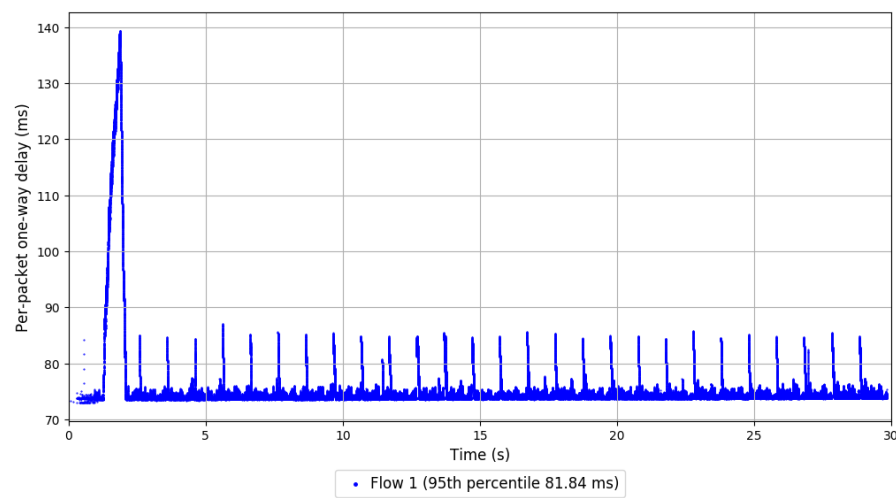
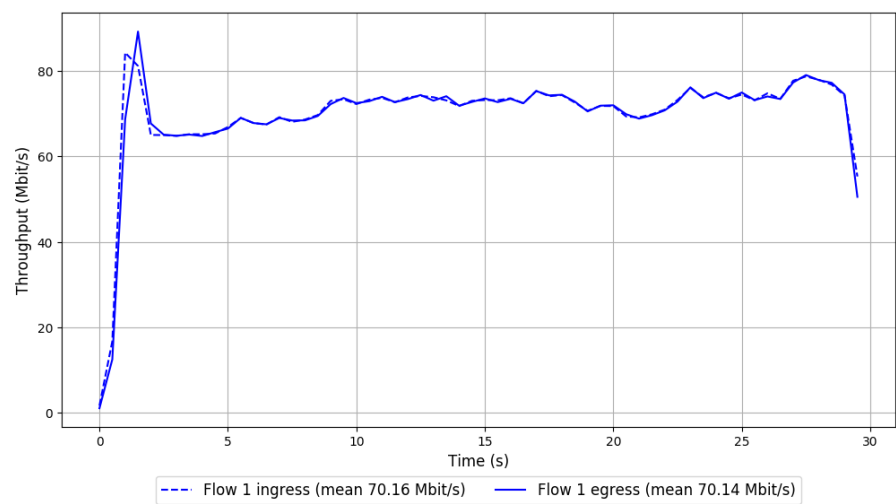


Run 10: Statistics of PCC

Start at: 2018-03-20 14:18:07
End at: 2018-03-20 14:18:37
Local clock offset: 8.923 ms
Remote clock offset: -38.758 ms

Below is generated by plot.py at 2018-03-20 18:19:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 70.14 Mbit/s
95th percentile per-packet one-way delay: 81.837 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 70.14 Mbit/s
95th percentile per-packet one-way delay: 81.837 ms
Loss rate: 0.38%

Run 10: Report of PCC — Data Link

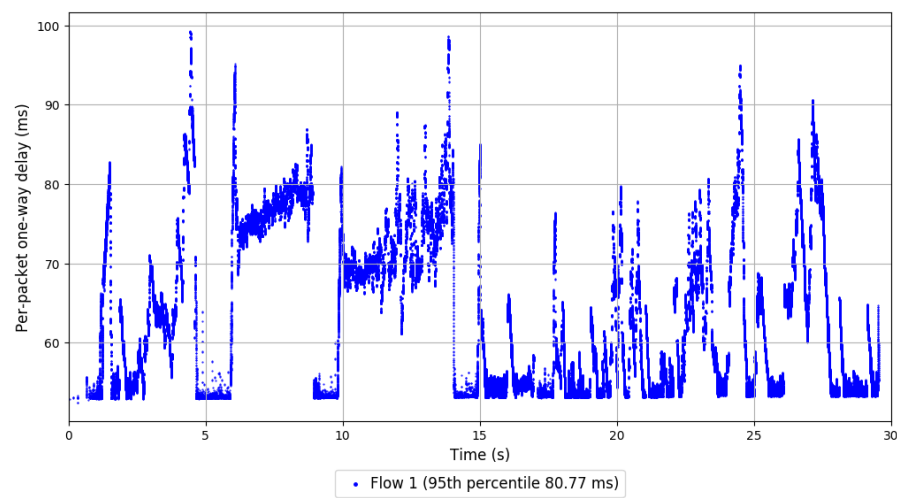
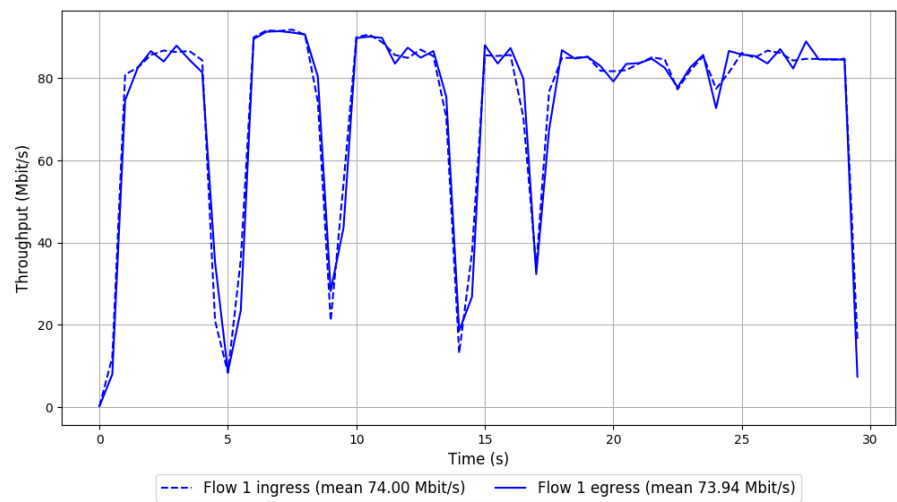


Run 1: Statistics of QUIC Cubic

Start at: 2018-03-20 10:56:07
End at: 2018-03-20 10:56:37
Local clock offset: -2.035 ms
Remote clock offset: -22.287 ms

Below is generated by plot.py at 2018-03-20 18:19:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 73.94 Mbit/s
95th percentile per-packet one-way delay: 80.773 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 73.94 Mbit/s
95th percentile per-packet one-way delay: 80.773 ms
Loss rate: 0.43%

Run 1: Report of QUIC Cubic — Data Link

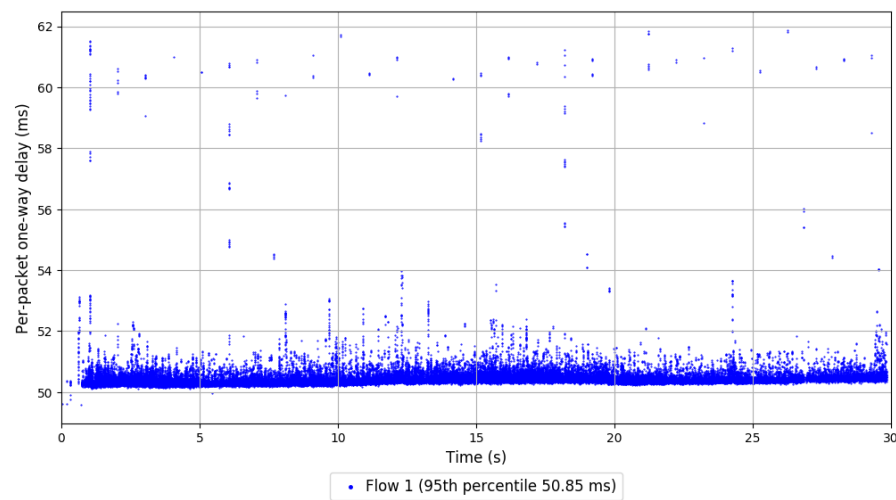
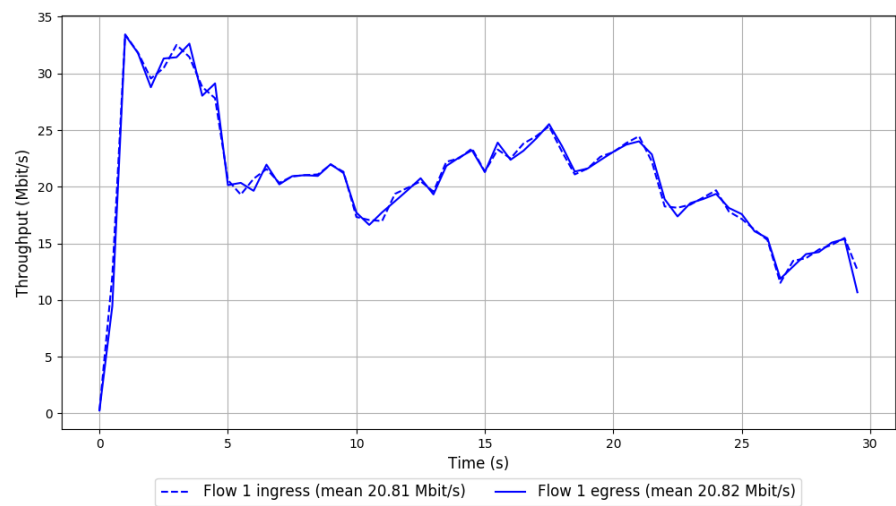


Run 2: Statistics of QUIC Cubic

Start at: 2018-03-20 11:17:51
End at: 2018-03-20 11:18:21
Local clock offset: -13.134 ms
Remote clock offset: -16.567 ms

Below is generated by plot.py at 2018-03-20 18:19:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.82 Mbit/s
95th percentile per-packet one-way delay: 50.847 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 20.82 Mbit/s
95th percentile per-packet one-way delay: 50.847 ms
Loss rate: 0.34%

Run 2: Report of QUIC Cubic — Data Link

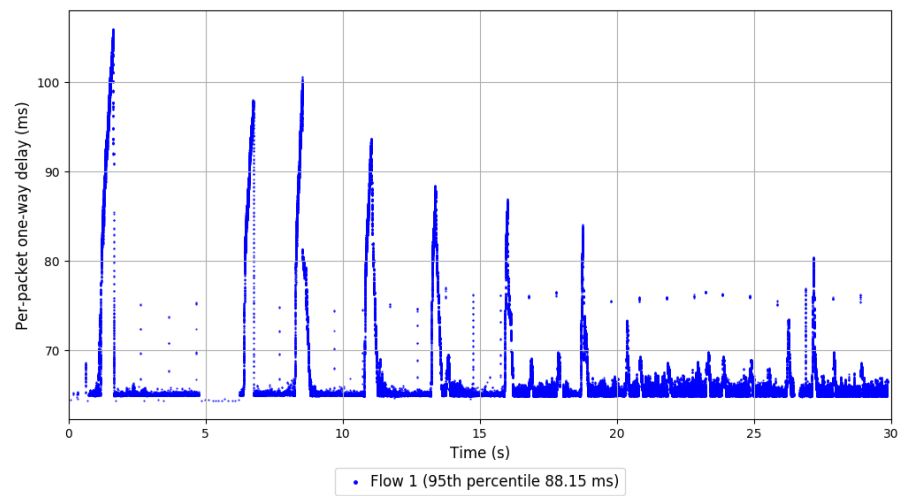
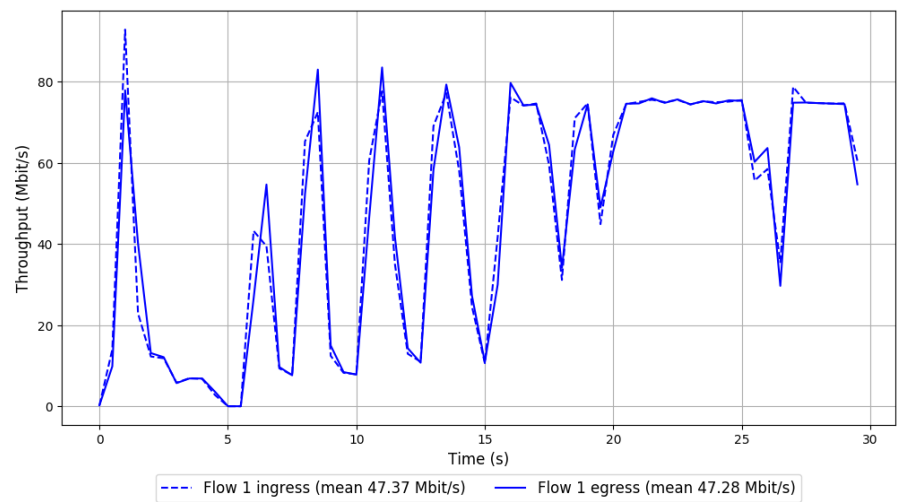


Run 3: Statistics of QUIC Cubic

Start at: 2018-03-20 11:40:21
End at: 2018-03-20 11:40:51
Local clock offset: -0.363 ms
Remote clock offset: -29.937 ms

Below is generated by plot.py at 2018-03-20 18:19:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 47.28 Mbit/s
95th percentile per-packet one-way delay: 88.149 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 47.28 Mbit/s
95th percentile per-packet one-way delay: 88.149 ms
Loss rate: 0.55%

Run 3: Report of QUIC Cubic — Data Link

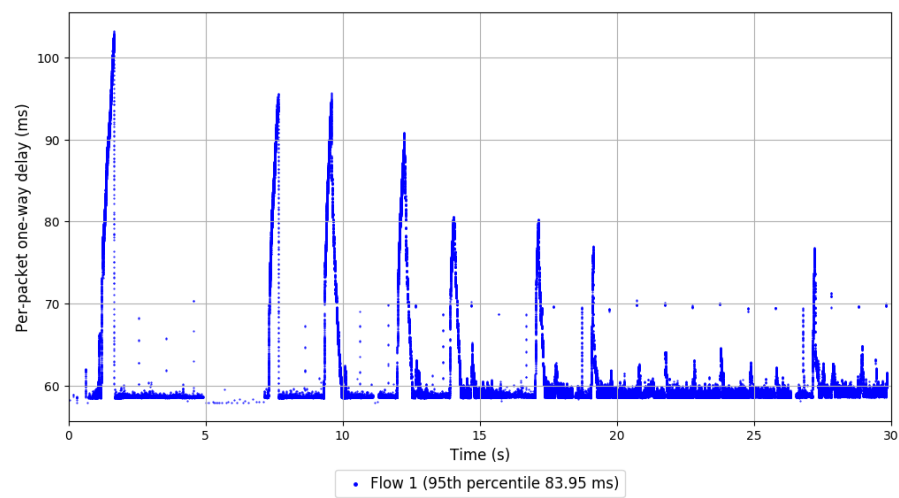
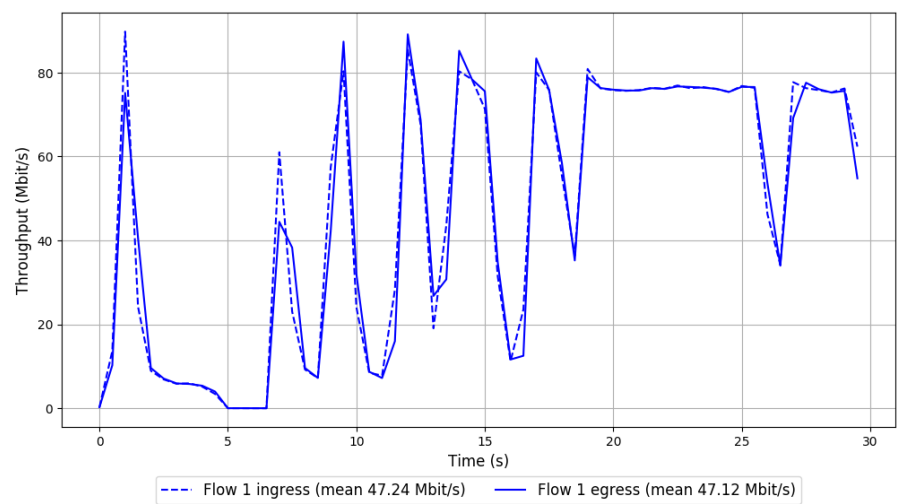


Run 4: Statistics of QUIC Cubic

Start at: 2018-03-20 12:02:32
End at: 2018-03-20 12:03:02
Local clock offset: 1.557 ms
Remote clock offset: -20.692 ms

Below is generated by plot.py at 2018-03-20 18:19:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 47.12 Mbit/s
95th percentile per-packet one-way delay: 83.950 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 47.12 Mbit/s
95th percentile per-packet one-way delay: 83.950 ms
Loss rate: 0.60%

Run 4: Report of QUIC Cubic — Data Link

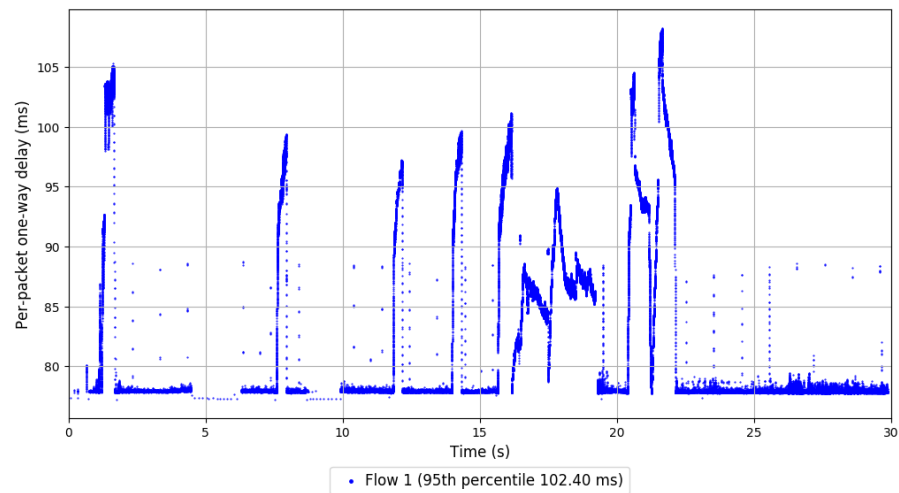
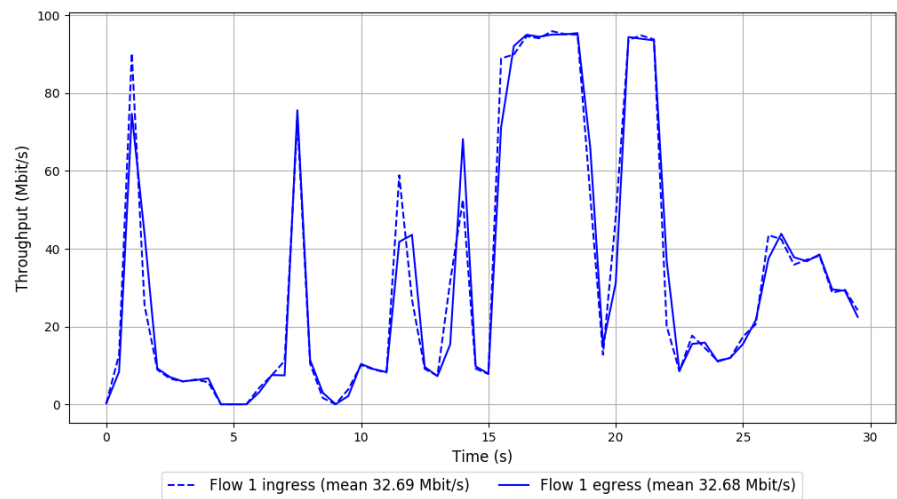


Run 5: Statistics of QUIC Cubic

Start at: 2018-03-20 12:24:23
End at: 2018-03-20 12:24:53
Local clock offset: -1.104 ms
Remote clock offset: -45.972 ms

Below is generated by plot.py at 2018-03-20 18:19:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 32.68 Mbit/s
95th percentile per-packet one-way delay: 102.398 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 32.68 Mbit/s
95th percentile per-packet one-way delay: 102.398 ms
Loss rate: 0.40%

Run 5: Report of QUIC Cubic — Data Link

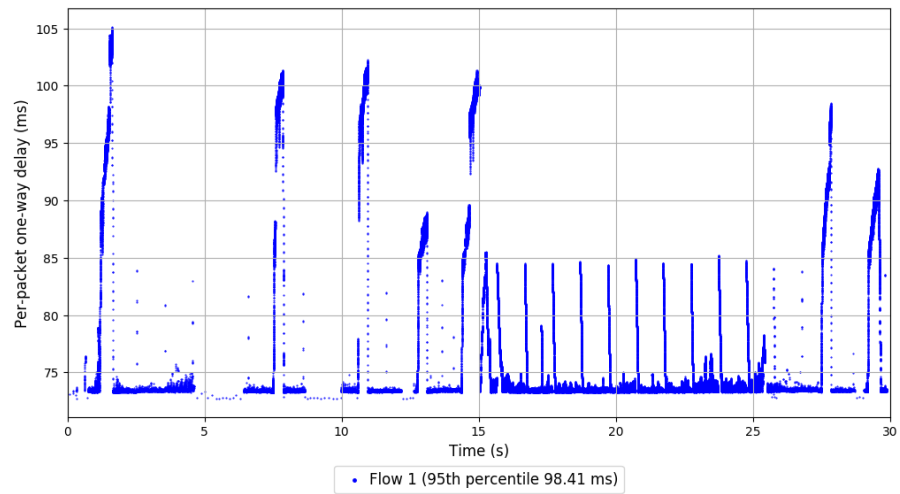
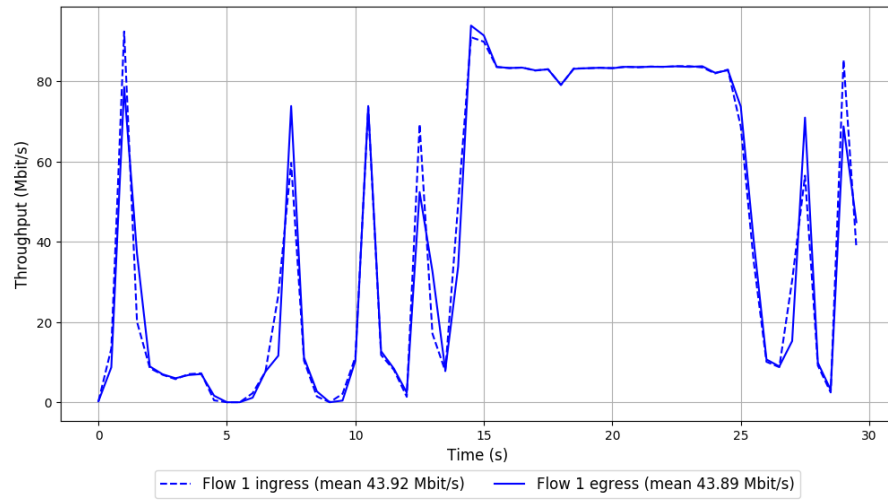


Run 6: Statistics of QUIC Cubic

Start at: 2018-03-20 12:47:14
End at: 2018-03-20 12:47:45
Local clock offset: 0.803 ms
Remote clock offset: -44.465 ms

Below is generated by plot.py at 2018-03-20 18:19:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 43.89 Mbit/s
95th percentile per-packet one-way delay: 98.405 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 43.89 Mbit/s
95th percentile per-packet one-way delay: 98.405 ms
Loss rate: 0.40%

Run 6: Report of QUIC Cubic — Data Link

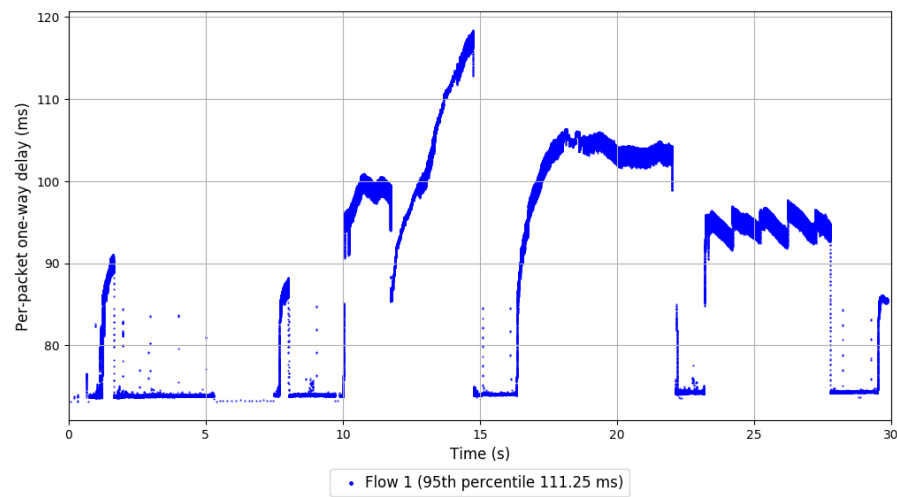
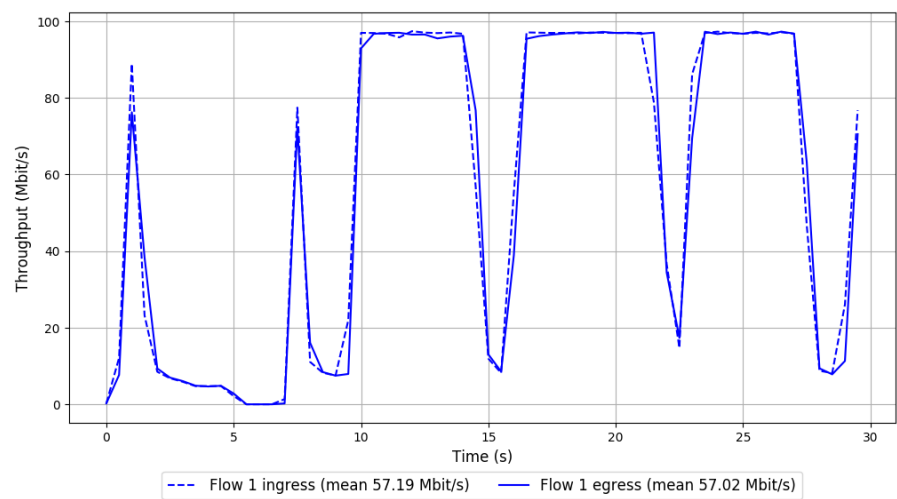


Run 7: Statistics of QUIC Cubic

Start at: 2018-03-20 13:09:06
End at: 2018-03-20 13:09:36
Local clock offset: 3.137 ms
Remote clock offset: -38.025 ms

Below is generated by plot.py at 2018-03-20 18:20:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 57.02 Mbit/s
95th percentile per-packet one-way delay: 111.249 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 57.02 Mbit/s
95th percentile per-packet one-way delay: 111.249 ms
Loss rate: 0.66%

Run 7: Report of QUIC Cubic — Data Link

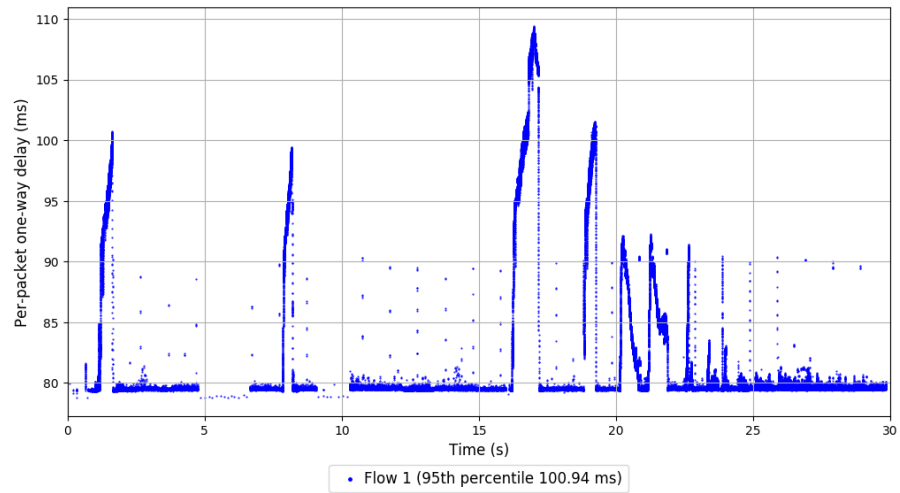
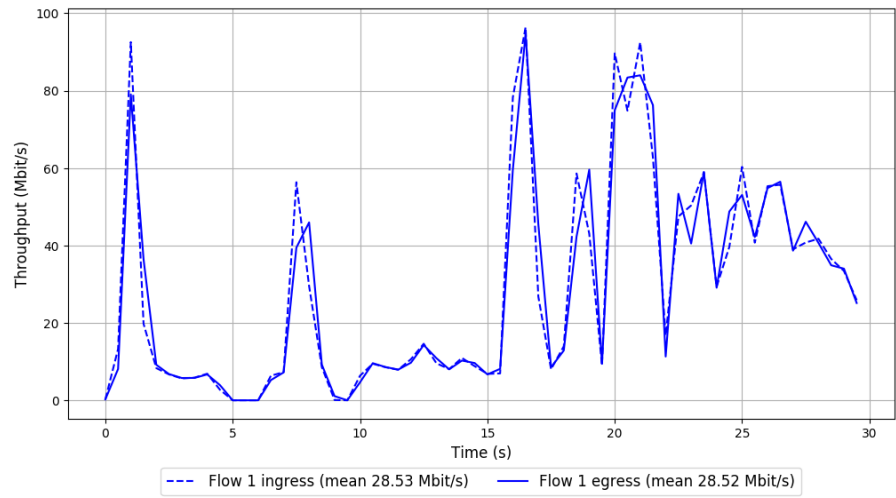


Run 8: Statistics of QUIC Cubic

Start at: 2018-03-20 13:31:03
End at: 2018-03-20 13:31:33
Local clock offset: -11.218 ms
Remote clock offset: -44.585 ms

Below is generated by plot.py at 2018-03-20 18:20:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 28.52 Mbit/s
95th percentile per-packet one-way delay: 100.939 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 28.52 Mbit/s
95th percentile per-packet one-way delay: 100.939 ms
Loss rate: 0.40%

Run 8: Report of QUIC Cubic — Data Link

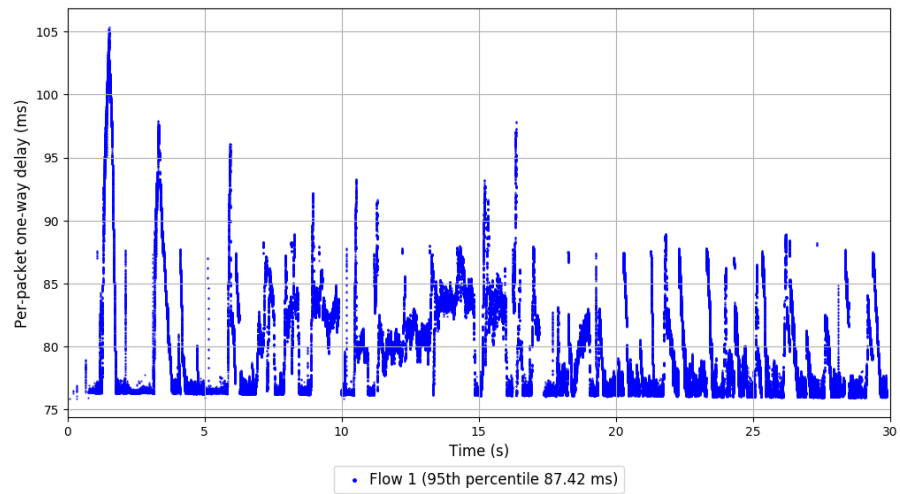
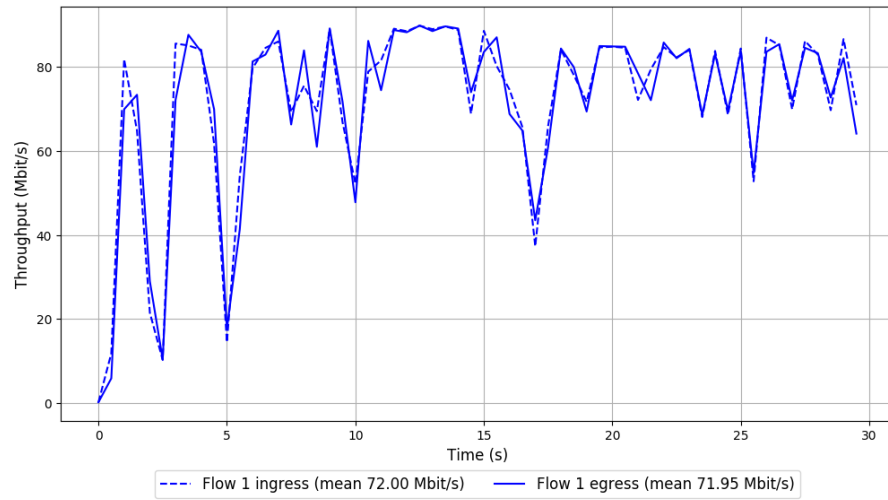


Run 9: Statistics of QUIC Cubic

Start at: 2018-03-20 13:53:55
End at: 2018-03-20 13:54:25
Local clock offset: 1.317 ms
Remote clock offset: -42.141 ms

Below is generated by plot.py at 2018-03-20 18:20:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 71.95 Mbit/s
95th percentile per-packet one-way delay: 87.416 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 71.95 Mbit/s
95th percentile per-packet one-way delay: 87.416 ms
Loss rate: 0.49%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-03-20 14:15:42

End at: 2018-03-20 14:16:12

Local clock offset: 9.741 ms

Remote clock offset: -41.974 ms

Below is generated by plot.py at 2018-03-20 18:20:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.44 Mbit/s

95th percentile per-packet one-way delay: 110.269 ms

Loss rate: 1.21%

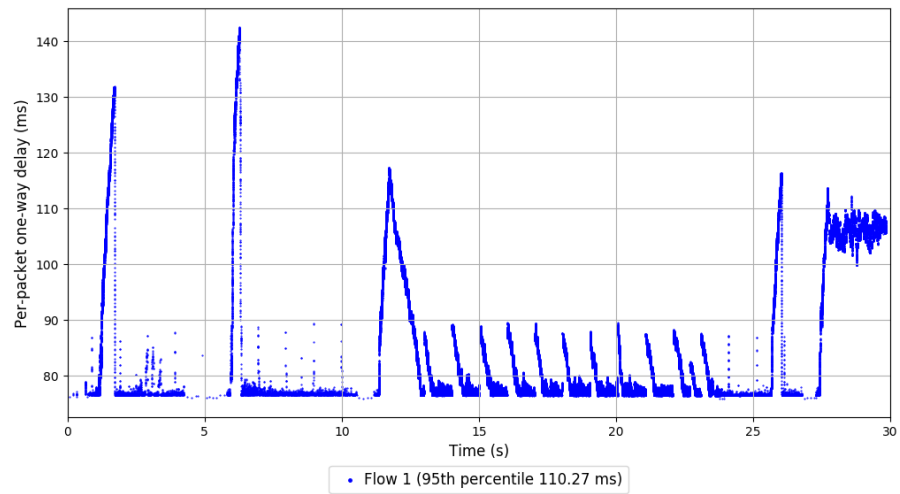
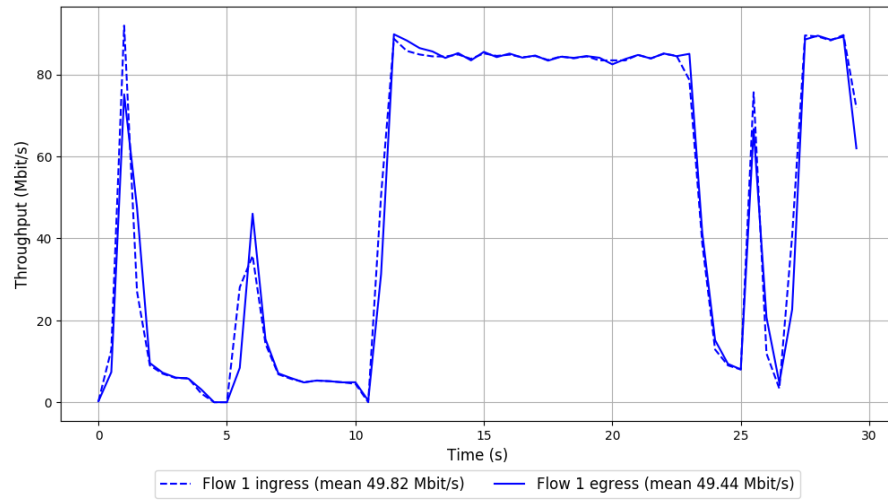
-- Flow 1:

Average throughput: 49.44 Mbit/s

95th percentile per-packet one-way delay: 110.269 ms

Loss rate: 1.21%

Run 10: Report of QUIC Cubic — Data Link

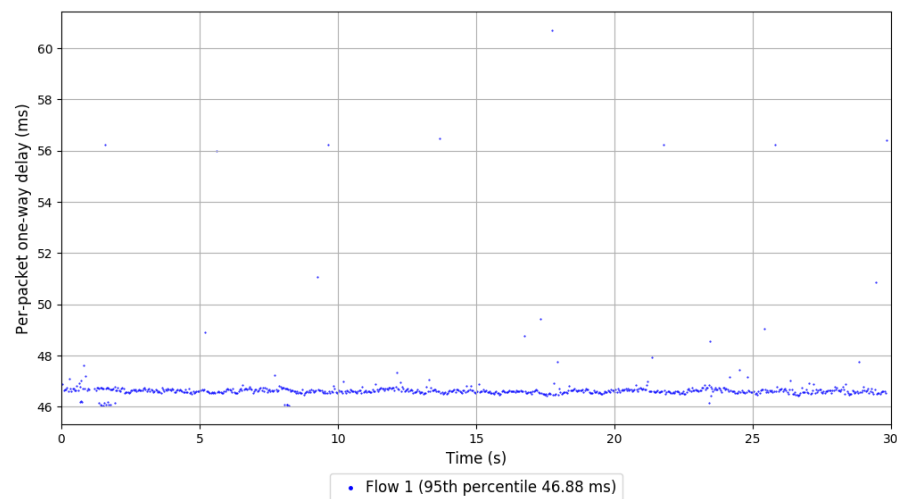
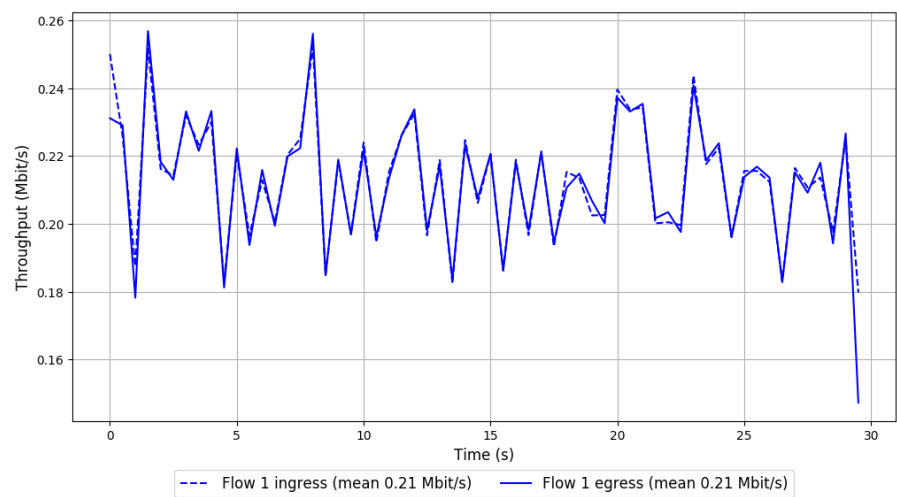


Run 1: Statistics of SCReAM

Start at: 2018-03-20 10:46:31
End at: 2018-03-20 10:47:01
Local clock offset: 3.464 ms
Remote clock offset: -15.89 ms

Below is generated by plot.py at 2018-03-20 18:20:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 46.878 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 46.878 ms
Loss rate: 0.38%

Run 1: Report of SReAM — Data Link

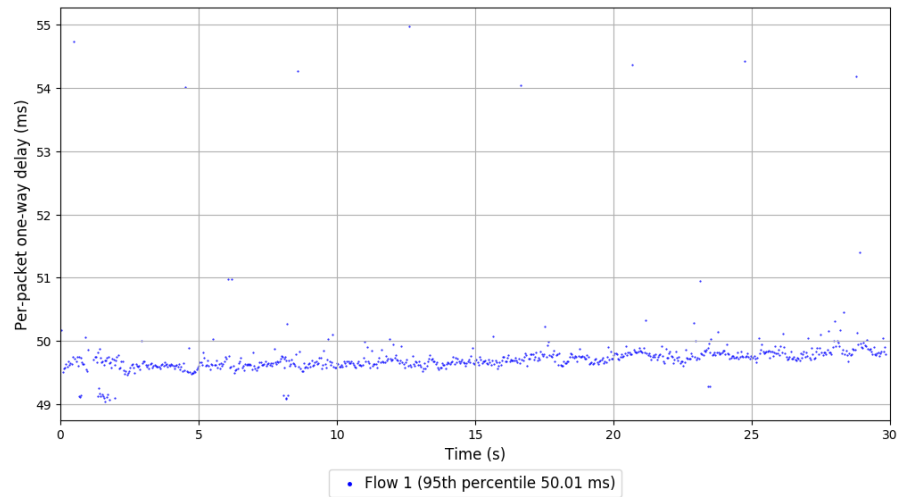
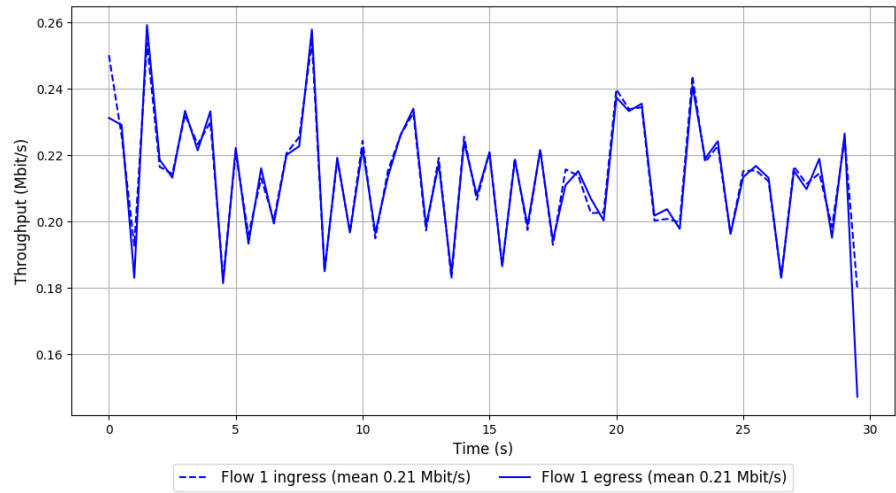


Run 2: Statistics of SCReAM

Start at: 2018-03-20 11:08:17
End at: 2018-03-20 11:08:47
Local clock offset: -9.927 ms
Remote clock offset: -16.714 ms

Below is generated by plot.py at 2018-03-20 18:20:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.005 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.005 ms
Loss rate: 0.38%

Run 2: Report of SReAM — Data Link

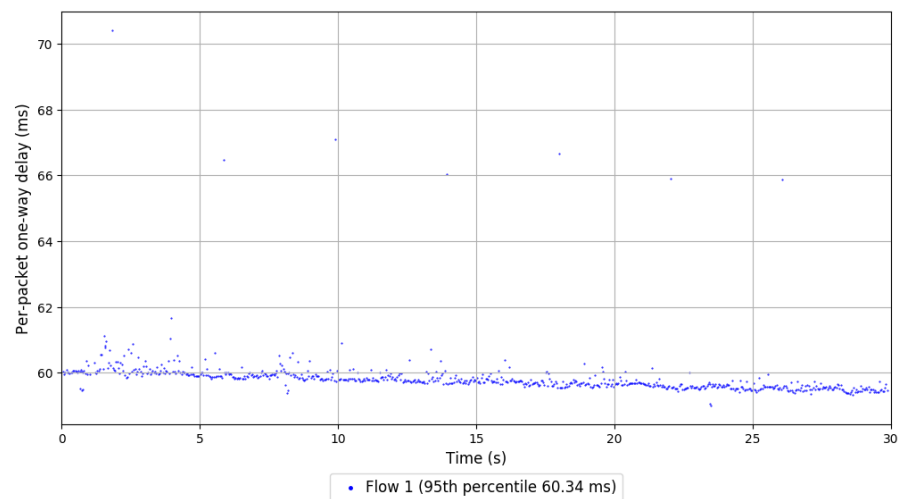
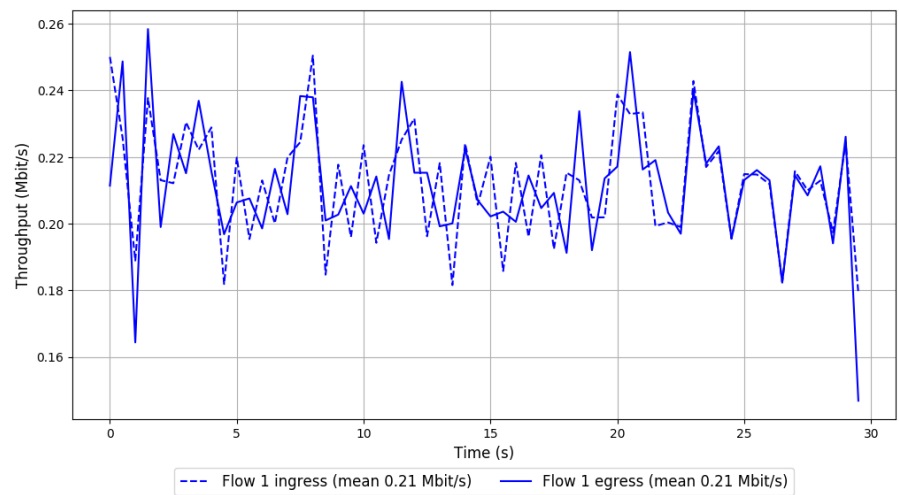


Run 3: Statistics of SCReAM

Start at: 2018-03-20 11:30:01
End at: 2018-03-20 11:30:31
Local clock offset: -8.078 ms
Remote clock offset: -26.707 ms

Below is generated by plot.py at 2018-03-20 18:20:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 60.343 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 60.343 ms
Loss rate: 0.38%

Run 3: Report of SReAM — Data Link

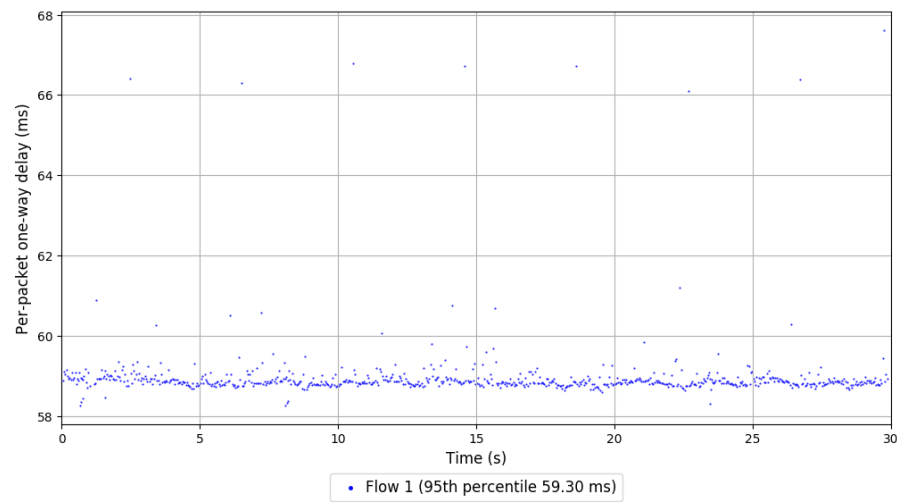
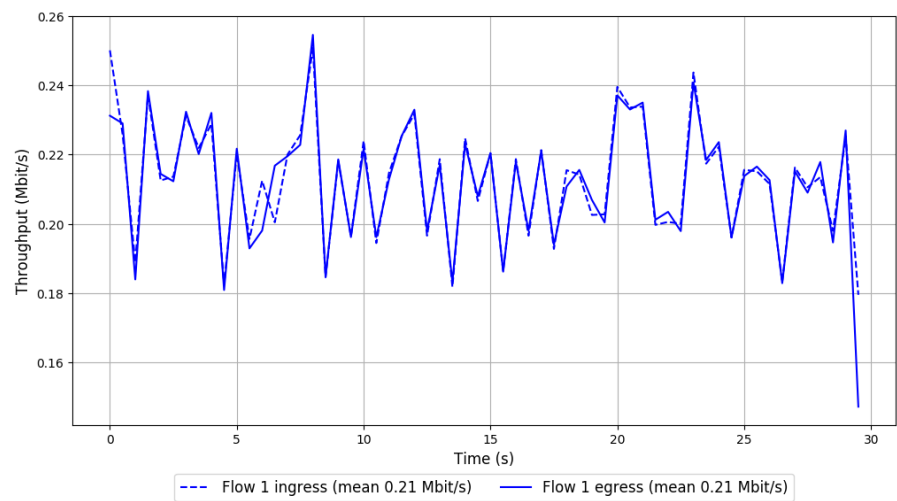


Run 4: Statistics of SCReAM

Start at: 2018-03-20 11:52:29
End at: 2018-03-20 11:52:59
Local clock offset: 1.667 ms
Remote clock offset: -21.804 ms

Below is generated by plot.py at 2018-03-20 18:20:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 59.298 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 59.298 ms
Loss rate: 0.38%

Run 4: Report of SReAM — Data Link

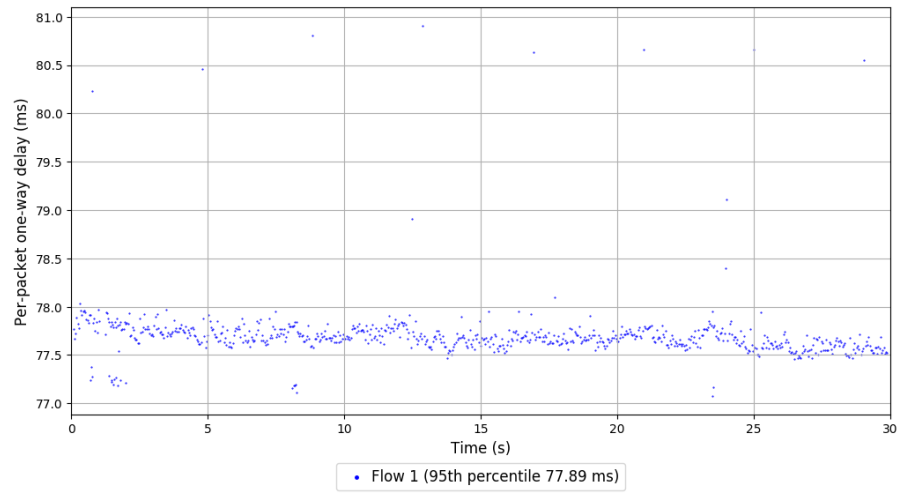
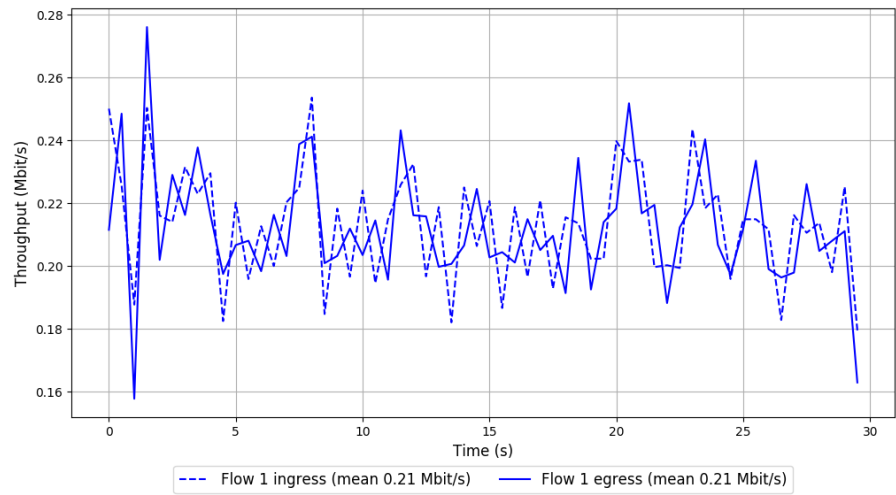


Run 5: Statistics of SCReAM

Start at: 2018-03-20 12:14:47
End at: 2018-03-20 12:15:17
Local clock offset: -0.608 ms
Remote clock offset: -42.962 ms

Below is generated by plot.py at 2018-03-20 18:20:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 77.892 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 77.892 ms
Loss rate: 0.38%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

/home/ubuntu/pantheon_data/2018-03-20T10-43-China-to-AWS-Korea-10-runs/scream_stats_run6.log

Run 6: Report of SReAM — Data Link

Figure is missing

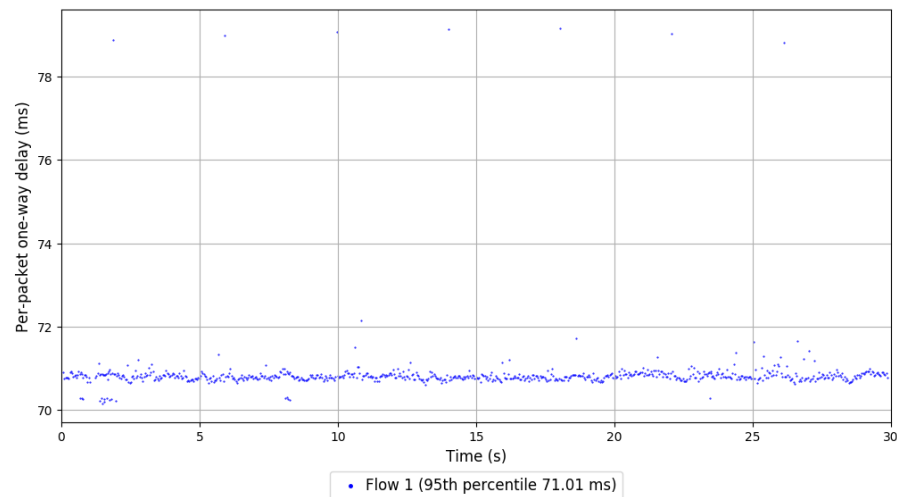
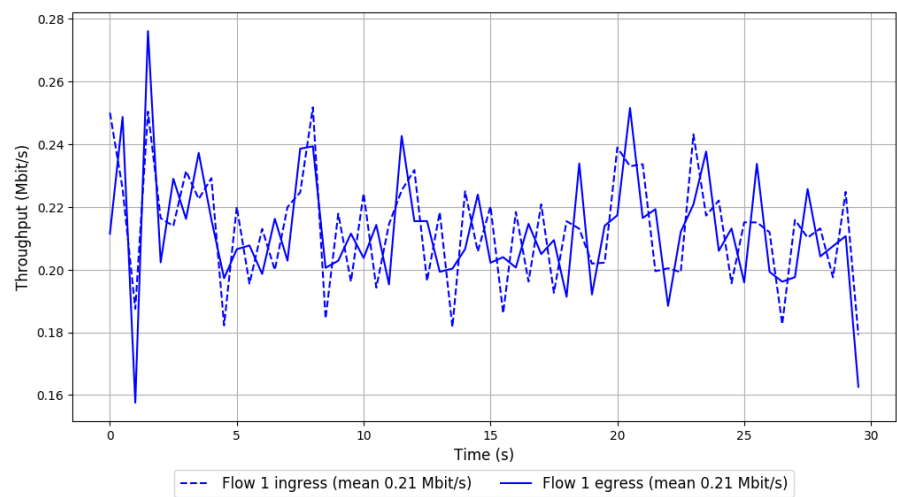
Figure is missing

Run 7: Statistics of SCReAM

Start at: 2018-03-20 12:59:28
End at: 2018-03-20 12:59:58
Local clock offset: 4.672 ms
Remote clock offset: -36.723 ms

Below is generated by plot.py at 2018-03-20 18:20:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 71.006 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 71.006 ms
Loss rate: 0.38%

Run 7: Report of SReAM — Data Link

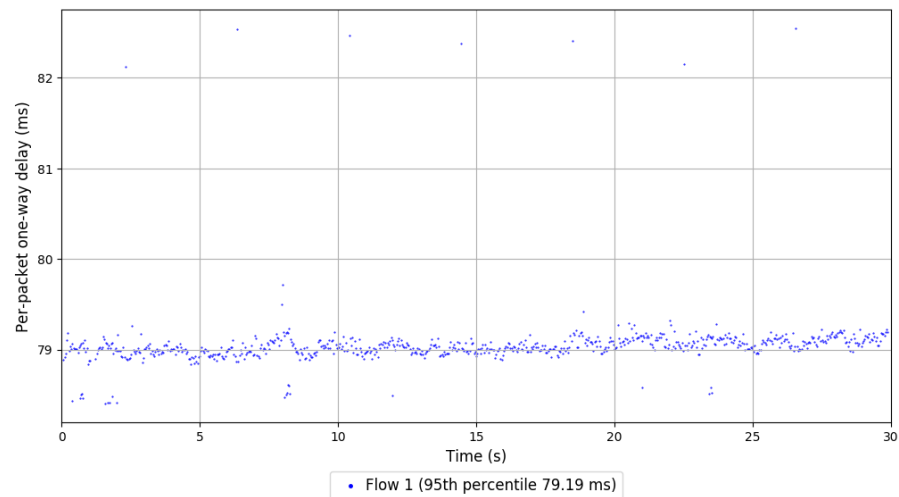
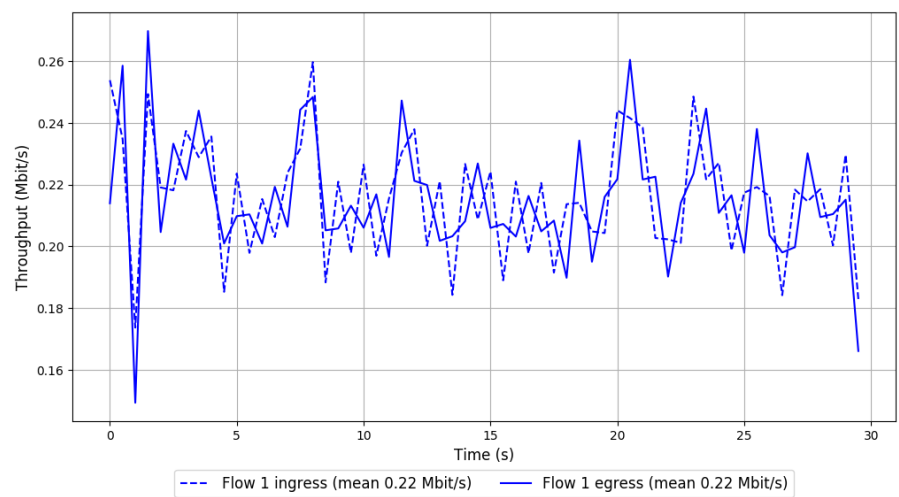


Run 8: Statistics of SCReAM

Start at: 2018-03-20 13:21:28
End at: 2018-03-20 13:21:58
Local clock offset: -7.455 ms
Remote clock offset: -43.747 ms

Below is generated by plot.py at 2018-03-20 18:20:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.186 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.186 ms
Loss rate: 0.38%

Run 8: Report of SReAM — Data Link

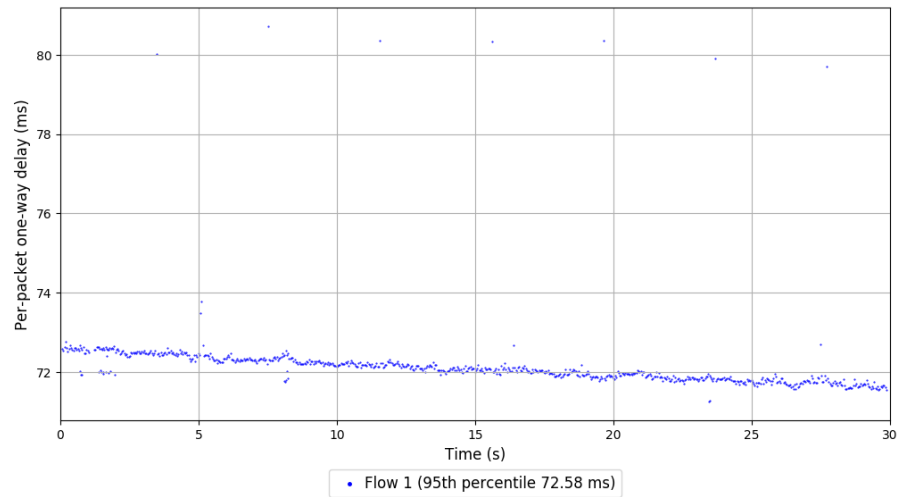
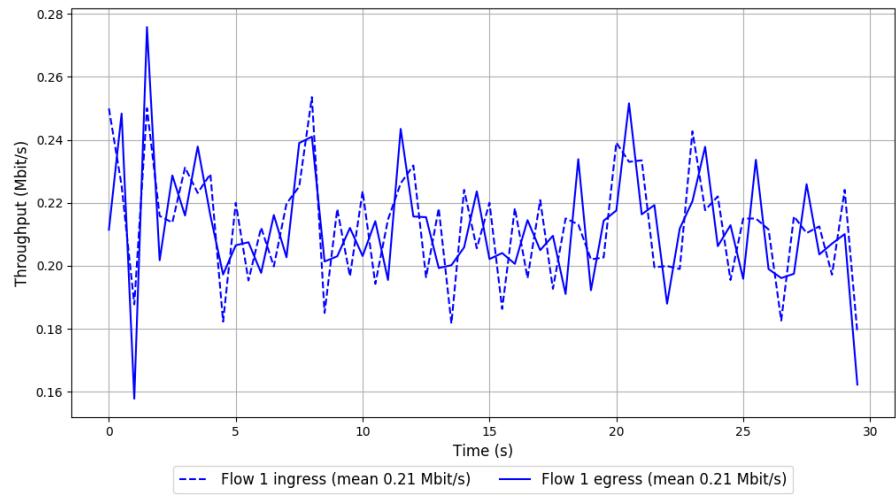


Run 9: Statistics of SCReAM

Start at: 2018-03-20 13:44:13
End at: 2018-03-20 13:44:43
Local clock offset: -11.736 ms
Remote clock offset: -39.365 ms

Below is generated by plot.py at 2018-03-20 18:20:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 72.583 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 72.583 ms
Loss rate: 0.38%

Run 9: Report of SReAM — Data Link

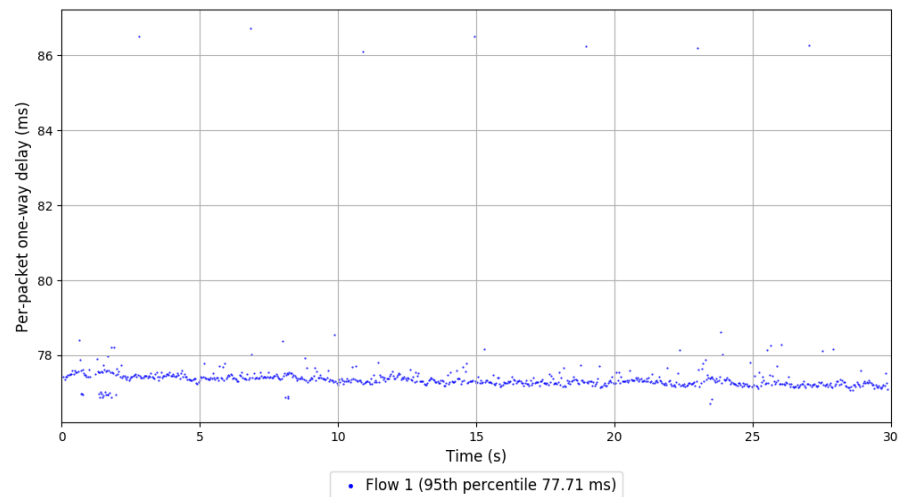
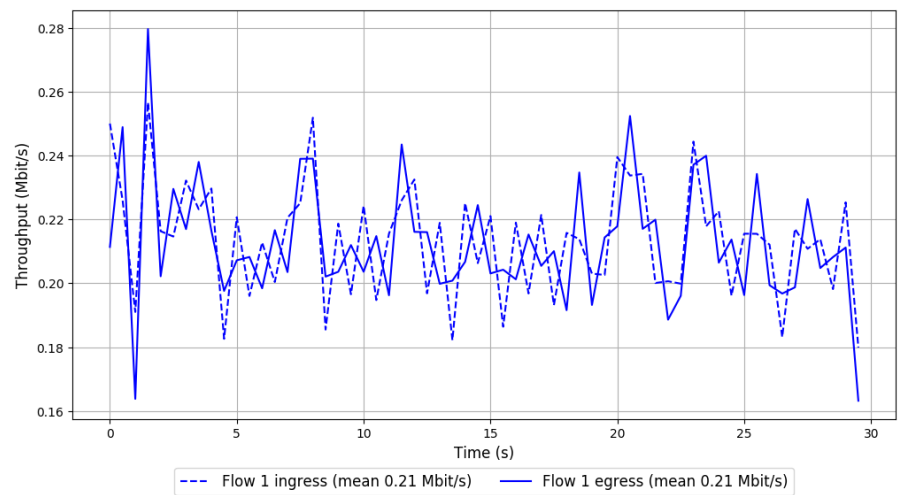


Run 10: Statistics of SReAM

Start at: 2018-03-20 14:06:05
End at: 2018-03-20 14:06:35
Local clock offset: 7.142 ms
Remote clock offset: -43.332 ms

Below is generated by plot.py at 2018-03-20 18:20:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 77.706 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 77.706 ms
Loss rate: 0.38%

Run 10: Report of SReAM — Data Link

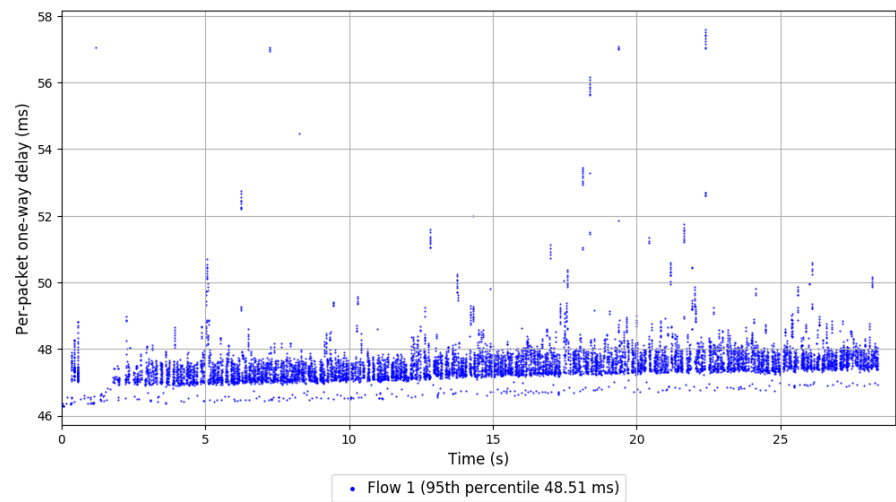
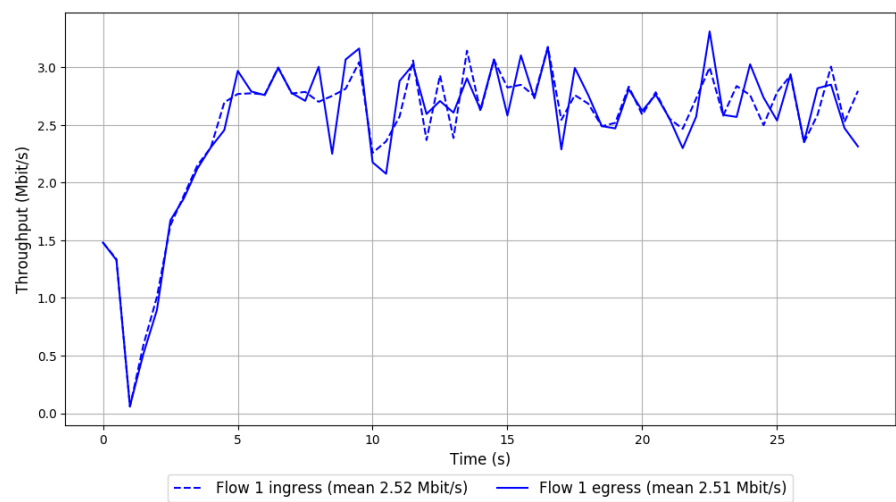


Run 1: Statistics of WebRTC media

Start at: 2018-03-20 10:53:45
End at: 2018-03-20 10:54:15
Local clock offset: 0.252 ms
Remote clock offset: -16.46 ms

Below is generated by plot.py at 2018-03-20 18:20:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.51 Mbit/s
95th percentile per-packet one-way delay: 48.510 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 2.51 Mbit/s
95th percentile per-packet one-way delay: 48.510 ms
Loss rate: 0.48%

Run 1: Report of WebRTC media — Data Link

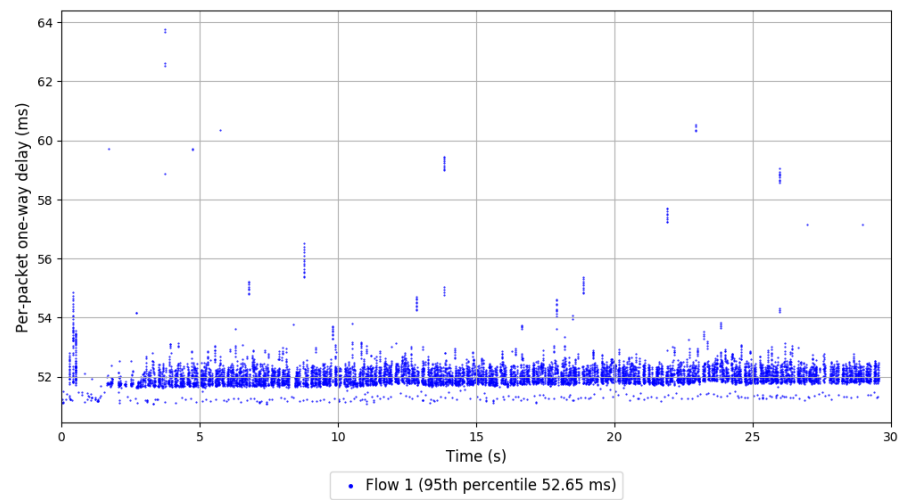
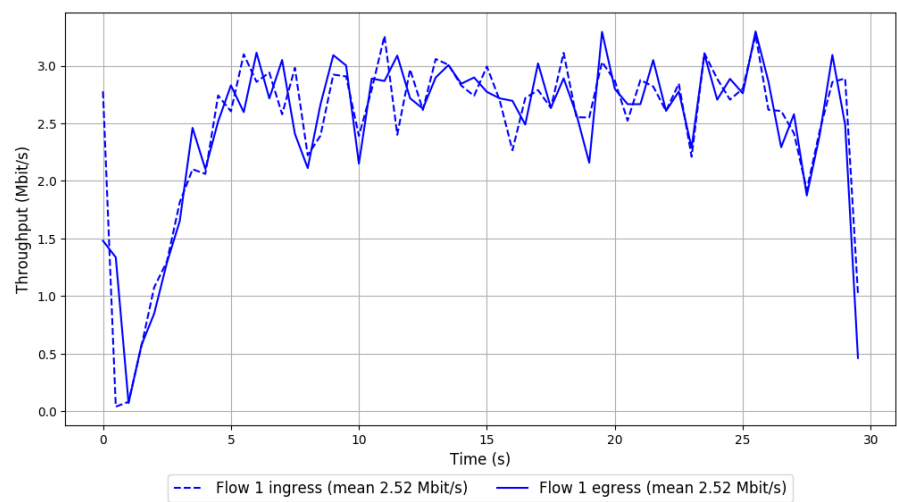


Run 2: Statistics of WebRTC media

Start at: 2018-03-20 11:15:29
End at: 2018-03-20 11:15:59
Local clock offset: -12.177 ms
Remote clock offset: -18.227 ms

Below is generated by plot.py at 2018-03-20 18:20:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.52 Mbit/s
95th percentile per-packet one-way delay: 52.654 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 2.52 Mbit/s
95th percentile per-packet one-way delay: 52.654 ms
Loss rate: 0.64%

Run 2: Report of WebRTC media — Data Link

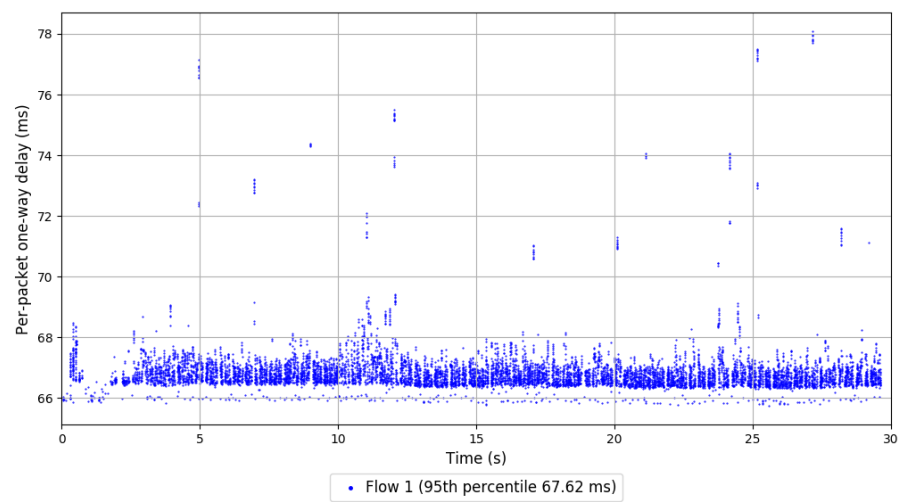
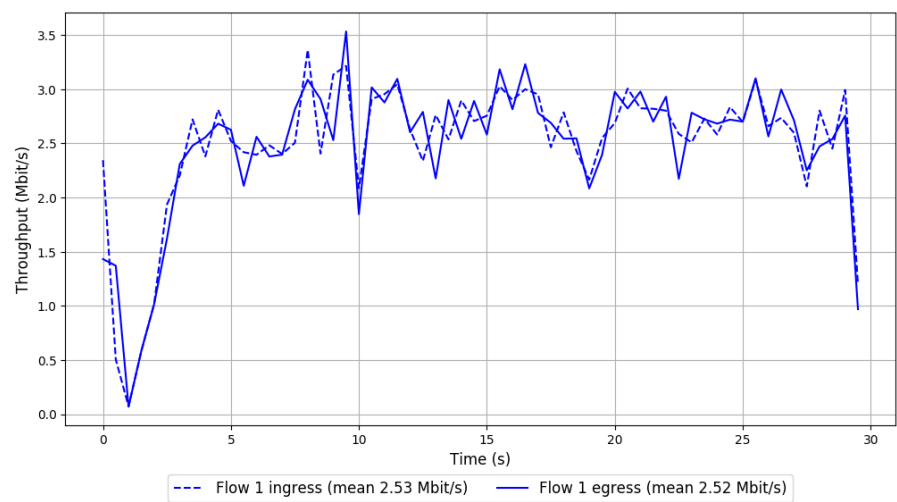


Run 3: Statistics of WebRTC media

Start at: 2018-03-20 11:37:59
End at: 2018-03-20 11:38:29
Local clock offset: -1.314 ms
Remote clock offset: -31.567 ms

Below is generated by plot.py at 2018-03-20 18:20:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.52 Mbit/s
95th percentile per-packet one-way delay: 67.624 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 2.52 Mbit/s
95th percentile per-packet one-way delay: 67.624 ms
Loss rate: 0.54%

Run 3: Report of WebRTC media — Data Link

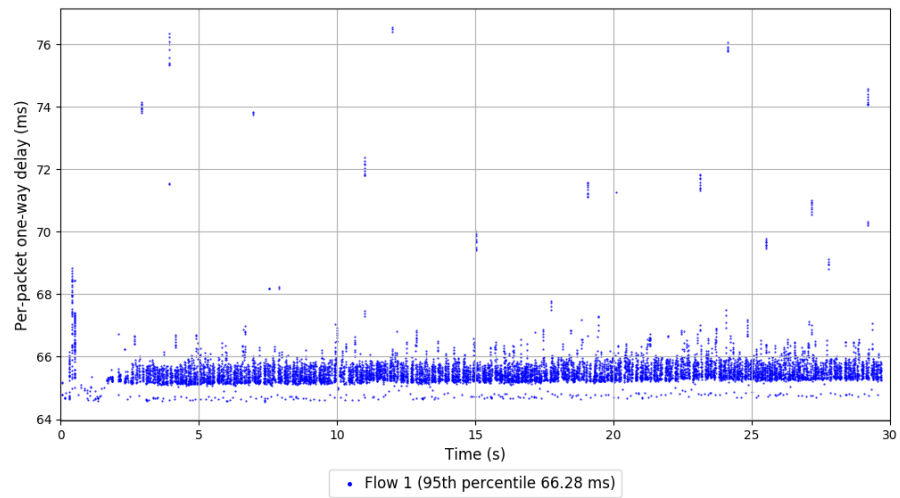
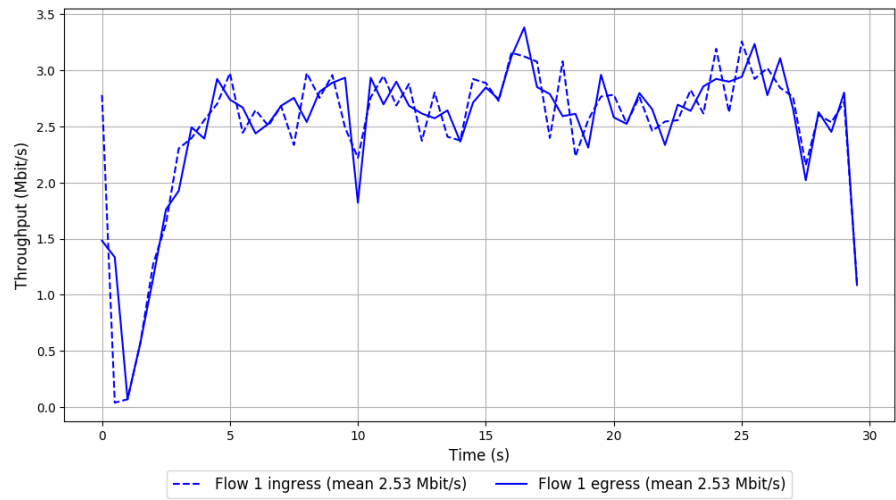


Run 4: Statistics of WebRTC media

Start at: 2018-03-20 12:00:08
End at: 2018-03-20 12:00:38
Local clock offset: 2.314 ms
Remote clock offset: -27.205 ms

Below is generated by plot.py at 2018-03-20 18:20:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.53 Mbit/s
95th percentile per-packet one-way delay: 66.283 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 2.53 Mbit/s
95th percentile per-packet one-way delay: 66.283 ms
Loss rate: 0.30%

Run 4: Report of WebRTC media — Data Link

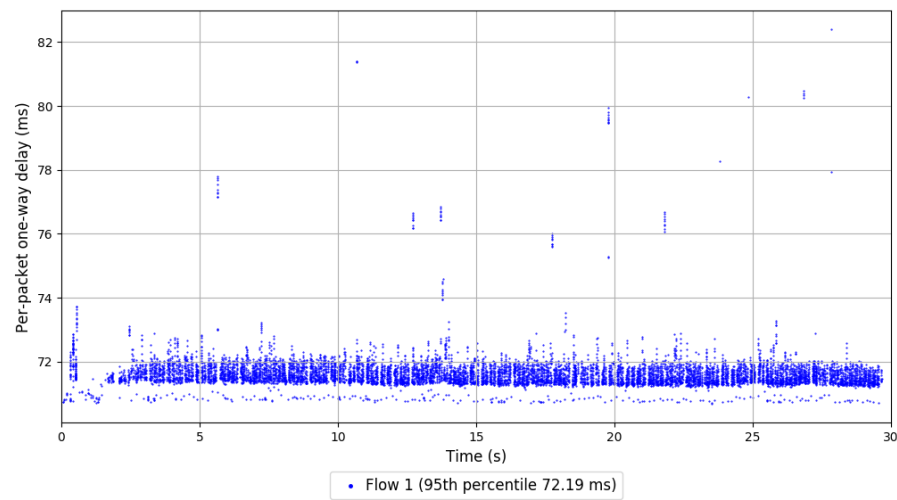
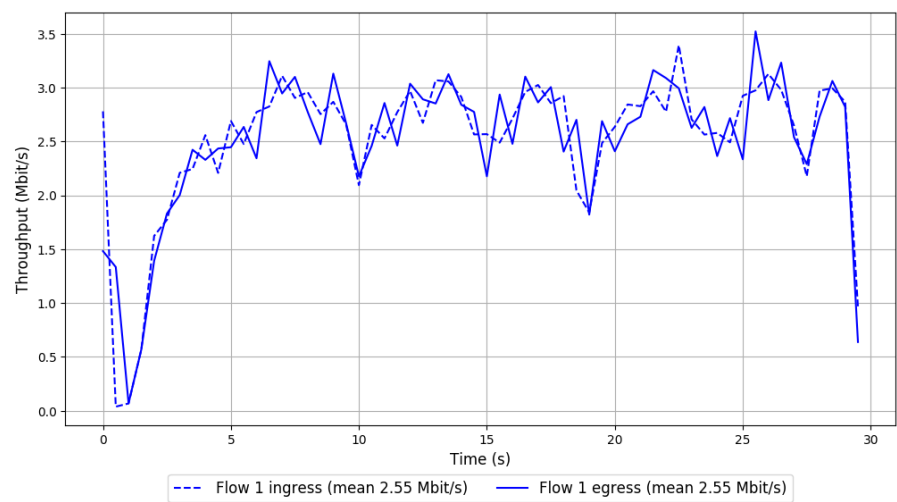


Run 5: Statistics of WebRTC media

Start at: 2018-03-20 12:22:01
End at: 2018-03-20 12:22:31
Local clock offset: -1.331 ms
Remote clock offset: -39.408 ms

Below is generated by plot.py at 2018-03-20 18:20:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 72.190 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 72.190 ms
Loss rate: 0.52%

Run 5: Report of WebRTC media — Data Link

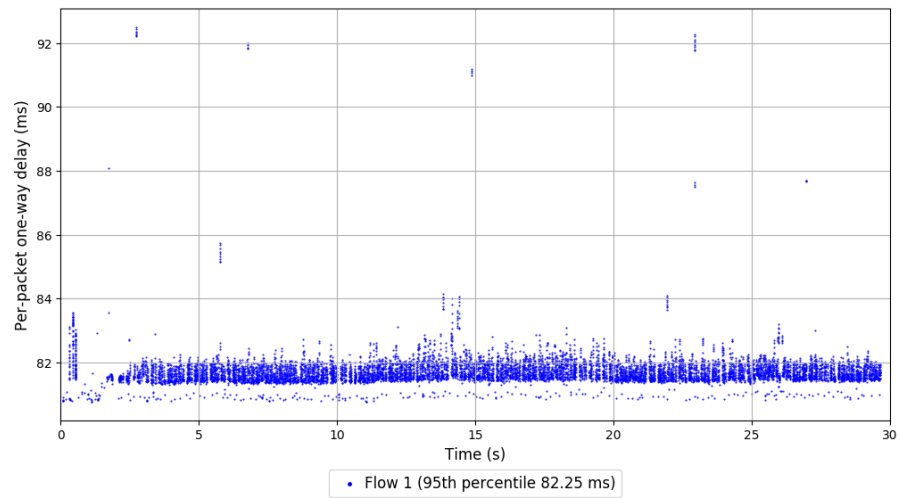
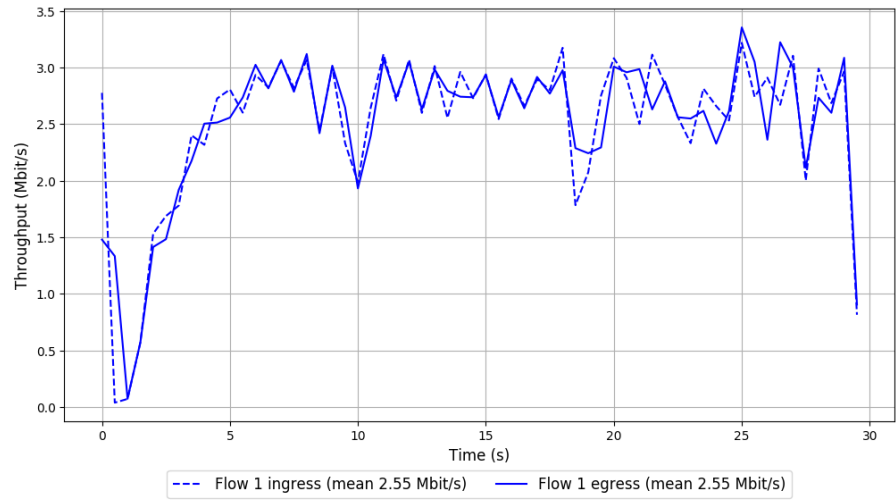


Run 6: Statistics of WebRTC media

Start at: 2018-03-20 12:44:53
End at: 2018-03-20 12:45:23
Local clock offset: 3.072 ms
Remote clock offset: -50.644 ms

Below is generated by plot.py at 2018-03-20 18:20:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 82.255 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 82.255 ms
Loss rate: 0.24%

Run 6: Report of WebRTC media — Data Link

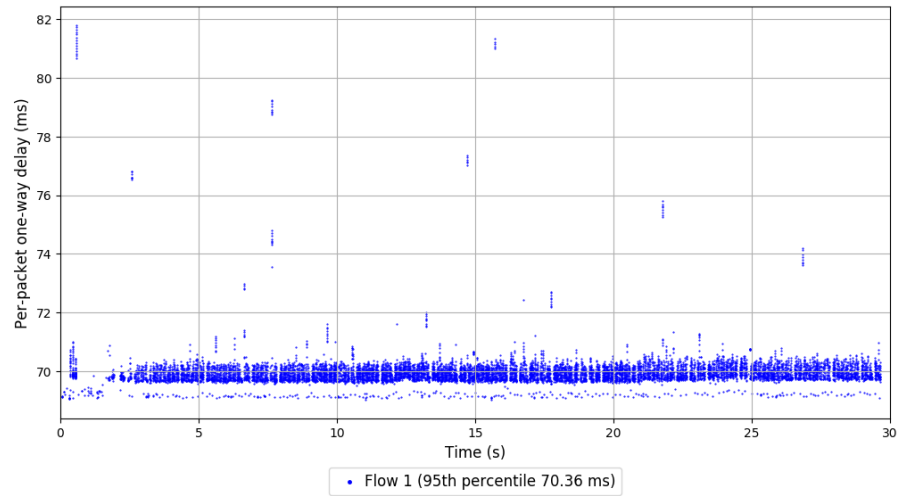
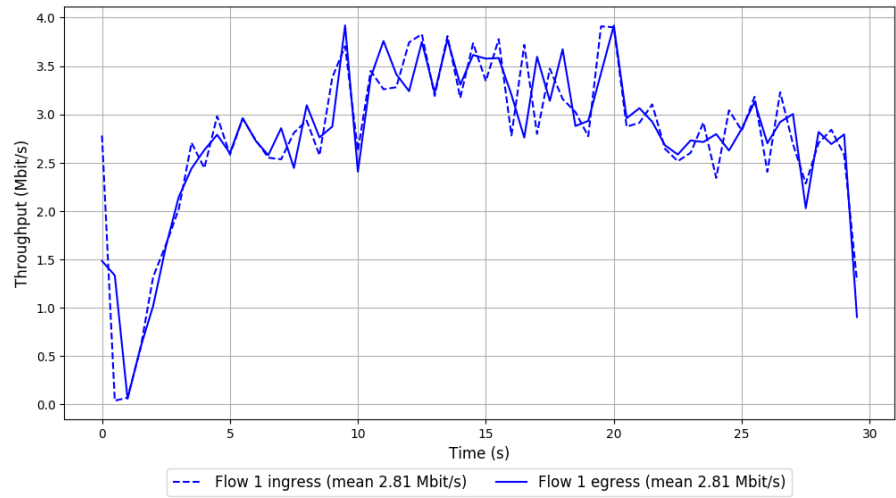


Run 7: Statistics of WebRTC media

Start at: 2018-03-20 13:06:44
End at: 2018-03-20 13:07:14
Local clock offset: 5.134 ms
Remote clock offset: -35.069 ms

Below is generated by plot.py at 2018-03-20 18:20:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.81 Mbit/s
95th percentile per-packet one-way delay: 70.361 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 2.81 Mbit/s
95th percentile per-packet one-way delay: 70.361 ms
Loss rate: 0.40%

Run 7: Report of WebRTC media — Data Link

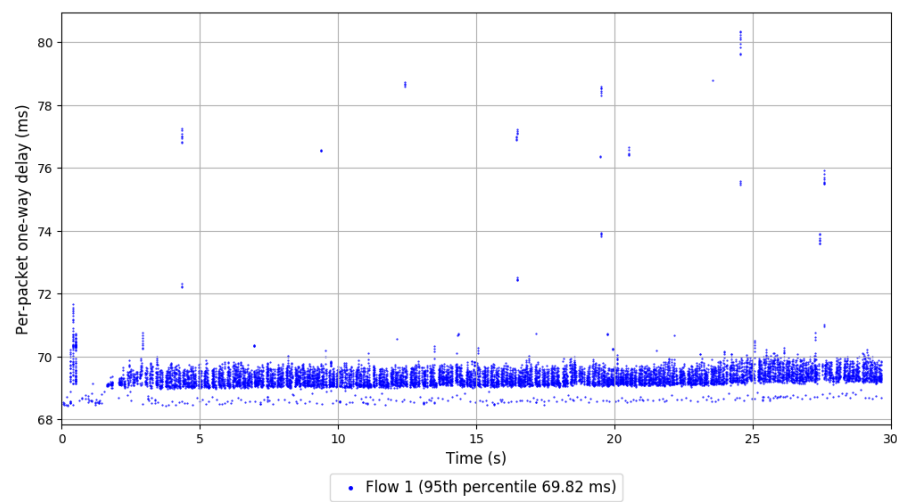
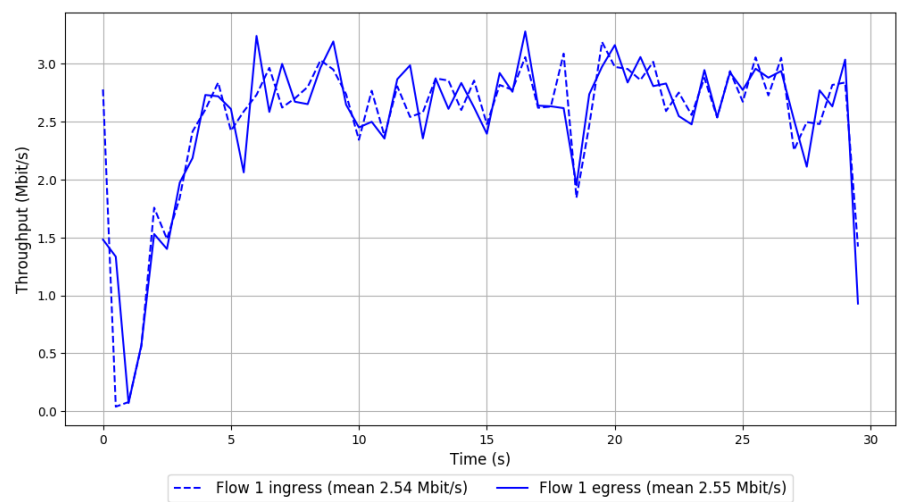


Run 8: Statistics of WebRTC media

Start at: 2018-03-20 13:28:41
End at: 2018-03-20 13:29:11
Local clock offset: -11.252 ms
Remote clock offset: -35.451 ms

Below is generated by plot.py at 2018-03-20 18:20:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 69.823 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 69.823 ms
Loss rate: 0.48%

Run 8: Report of WebRTC media — Data Link

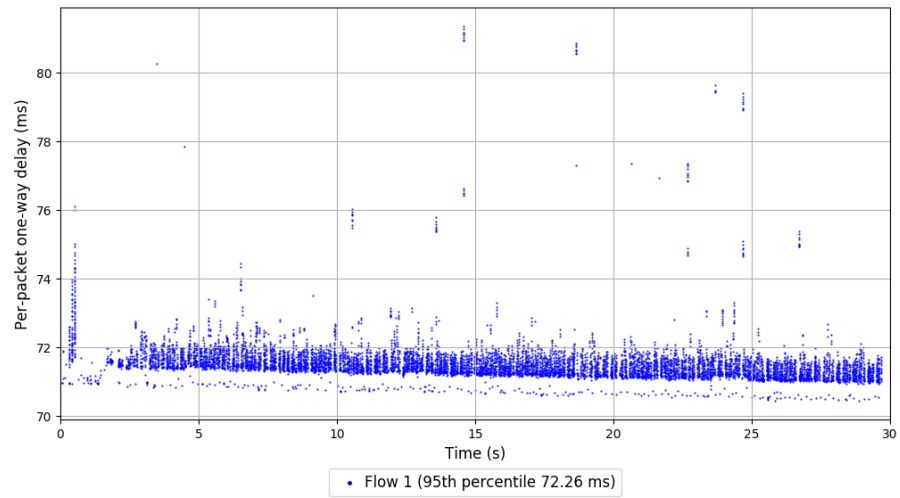
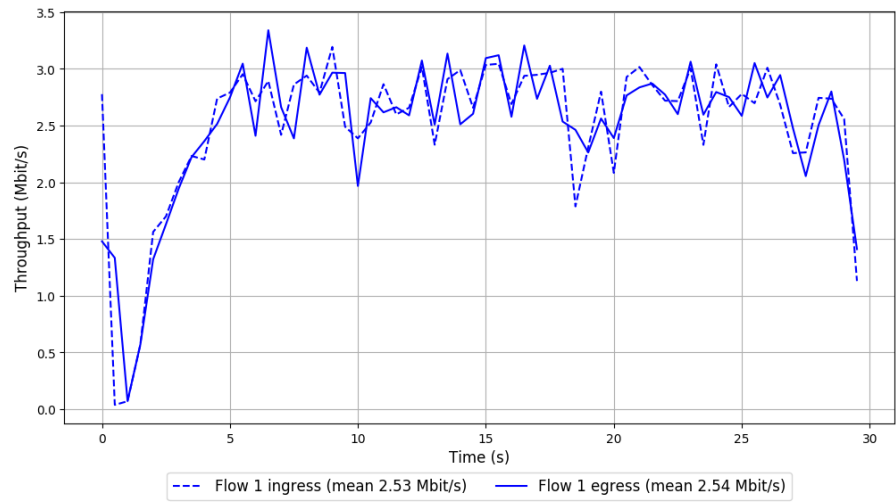


Run 9: Statistics of WebRTC media

Start at: 2018-03-20 13:51:33
End at: 2018-03-20 13:52:03
Local clock offset: -0.735 ms
Remote clock offset: -37.066 ms

Below is generated by plot.py at 2018-03-20 18:20:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.54 Mbit/s
95th percentile per-packet one-way delay: 72.256 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 2.54 Mbit/s
95th percentile per-packet one-way delay: 72.256 ms
Loss rate: 0.31%

Run 9: Report of WebRTC media — Data Link

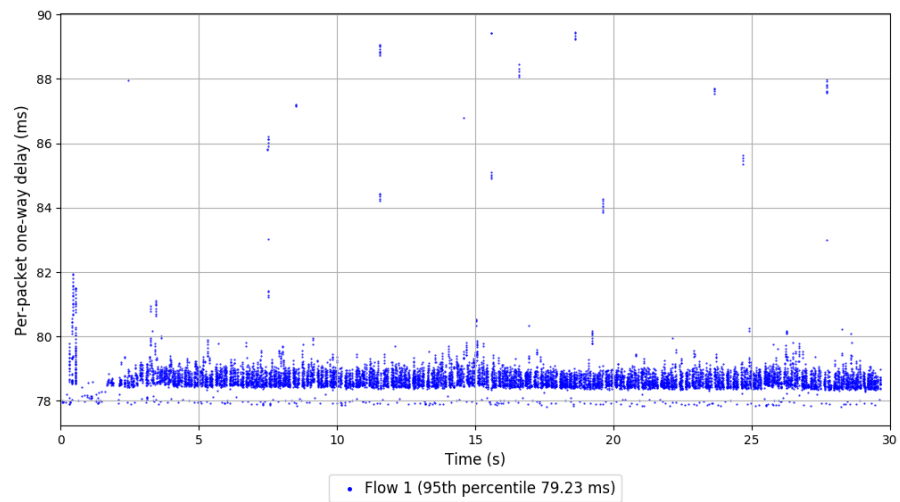
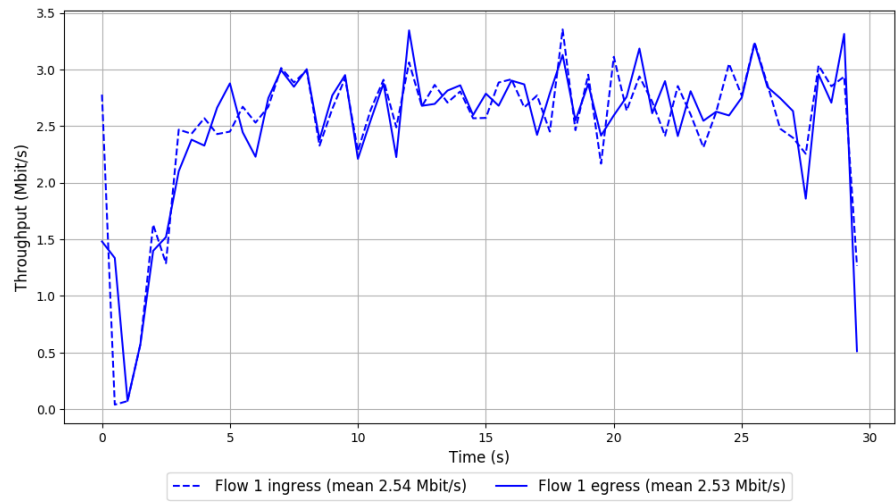


Run 10: Statistics of WebRTC media

Start at: 2018-03-20 14:13:20
End at: 2018-03-20 14:13:50
Local clock offset: 8.992 ms
Remote clock offset: -44.555 ms

Below is generated by plot.py at 2018-03-20 18:20:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.53 Mbit/s
95th percentile per-packet one-way delay: 79.231 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 2.53 Mbit/s
95th percentile per-packet one-way delay: 79.231 ms
Loss rate: 0.66%

Run 10: Report of WebRTC media — Data Link

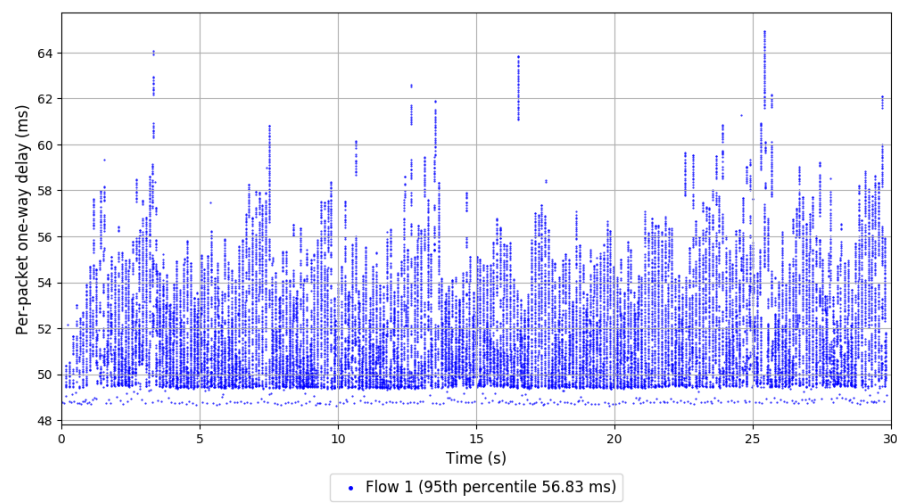
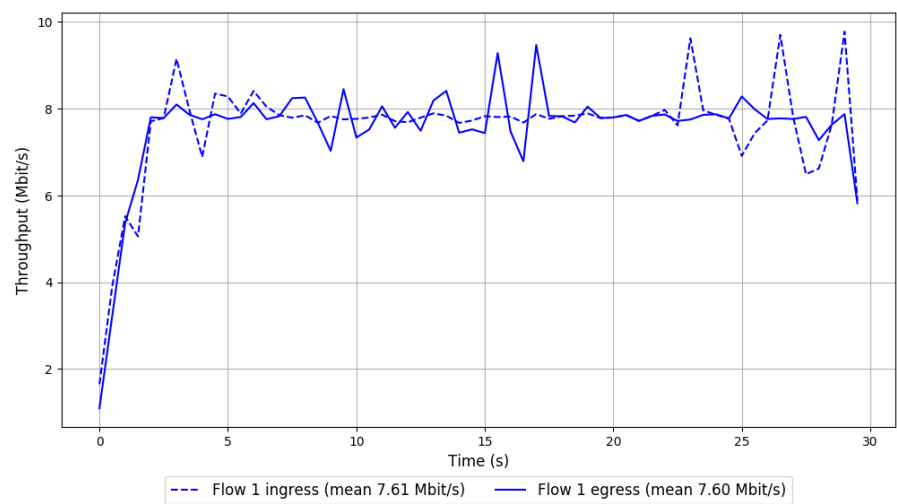


Run 1: Statistics of Sprout

Start at: 2018-03-20 10:47:40
End at: 2018-03-20 10:48:10
Local clock offset: 3.6 ms
Remote clock offset: -18.508 ms

Below is generated by plot.py at 2018-03-20 18:20:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.60 Mbit/s
95th percentile per-packet one-way delay: 56.826 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 7.60 Mbit/s
95th percentile per-packet one-way delay: 56.826 ms
Loss rate: 0.43%

Run 1: Report of Sprout — Data Link

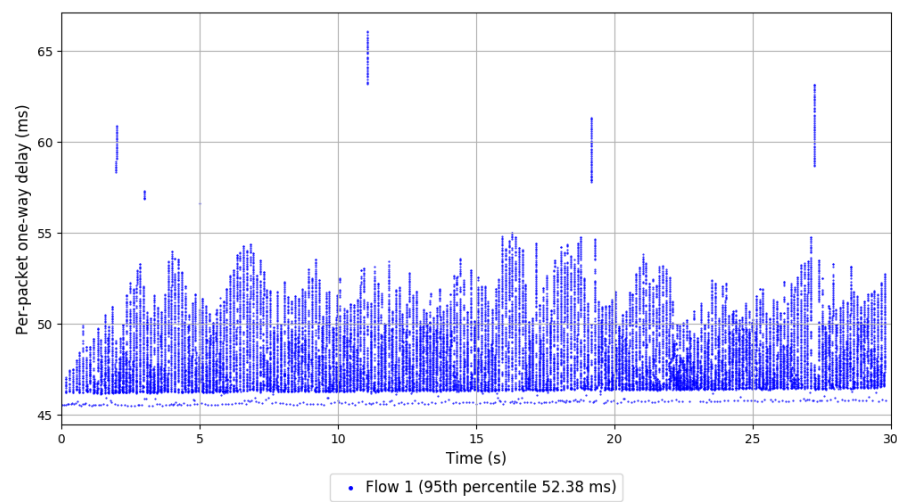
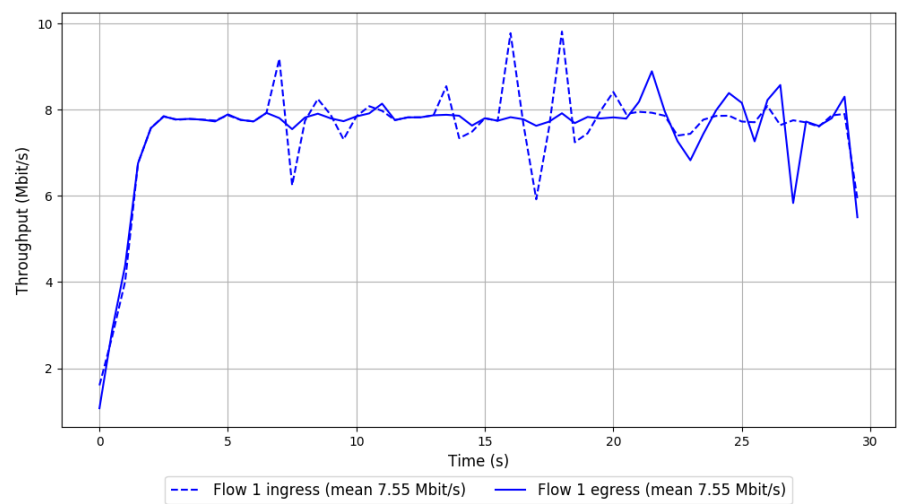


Run 2: Statistics of Sprout

Start at: 2018-03-20 11:09:26
End at: 2018-03-20 11:09:56
Local clock offset: -10.379 ms
Remote clock offset: -13.121 ms

Below is generated by plot.py at 2018-03-20 18:20:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.55 Mbit/s
95th percentile per-packet one-way delay: 52.381 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 7.55 Mbit/s
95th percentile per-packet one-way delay: 52.381 ms
Loss rate: 0.44%

Run 2: Report of Sprout — Data Link

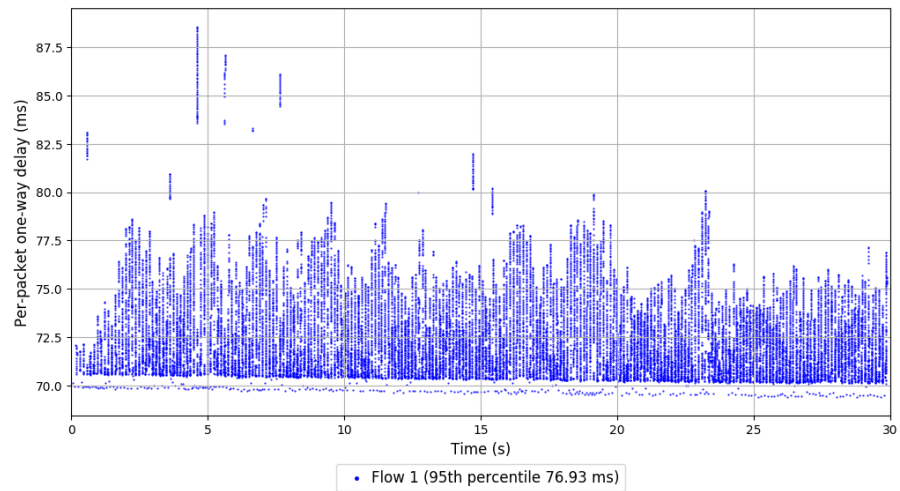
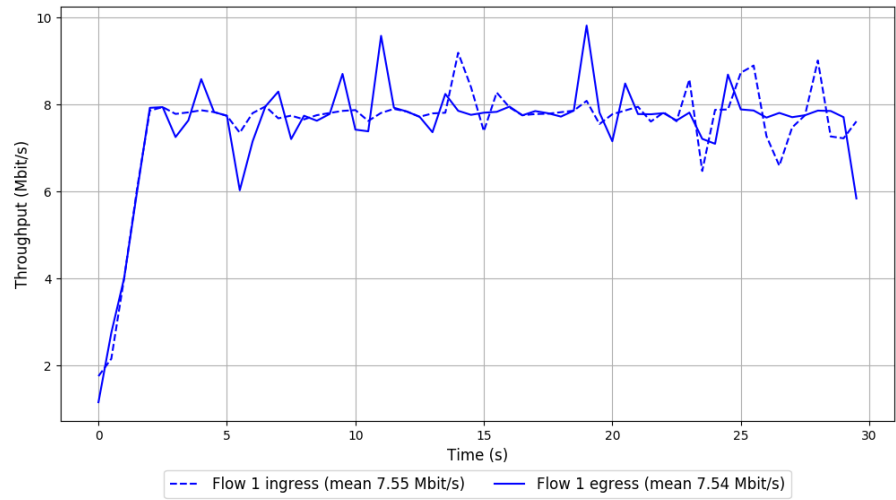


Run 3: Statistics of Sprout

Start at: 2018-03-20 11:31:10
End at: 2018-03-20 11:31:40
Local clock offset: -6.395 ms
Remote clock offset: -36.795 ms

Below is generated by plot.py at 2018-03-20 18:20:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.54 Mbit/s
95th percentile per-packet one-way delay: 76.927 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 7.54 Mbit/s
95th percentile per-packet one-way delay: 76.927 ms
Loss rate: 0.41%

Run 3: Report of Sprout — Data Link

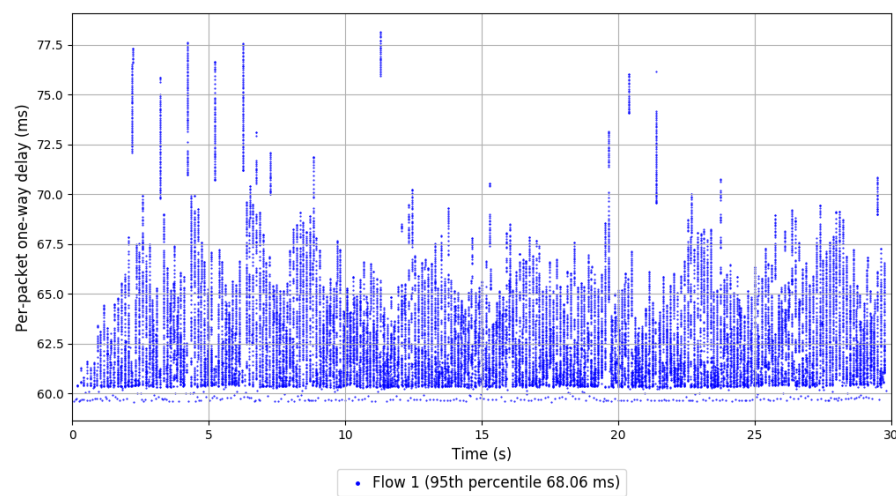
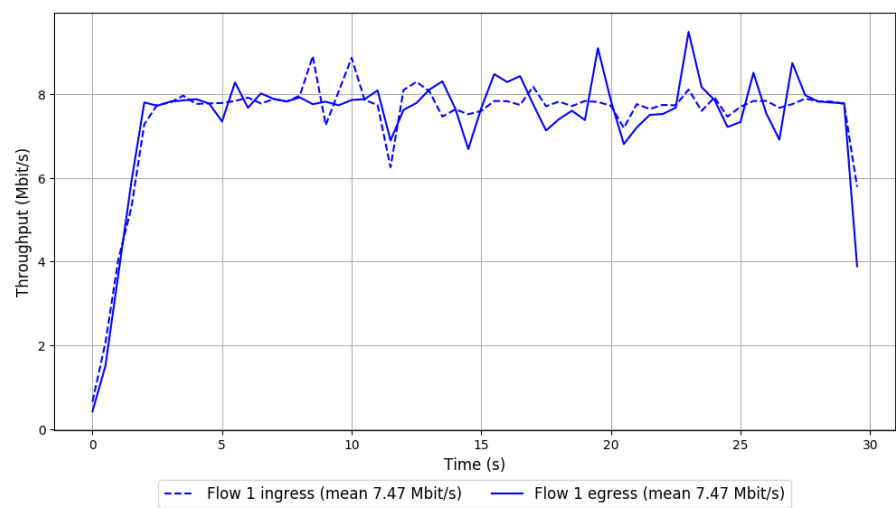


Run 4: Statistics of Sprout

Start at: 2018-03-20 11:53:38
End at: 2018-03-20 11:54:08
Local clock offset: 1.911 ms
Remote clock offset: -23.255 ms

Below is generated by plot.py at 2018-03-20 18:20:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.47 Mbit/s
95th percentile per-packet one-way delay: 68.061 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 7.47 Mbit/s
95th percentile per-packet one-way delay: 68.061 ms
Loss rate: 0.43%

Run 4: Report of Sprout — Data Link

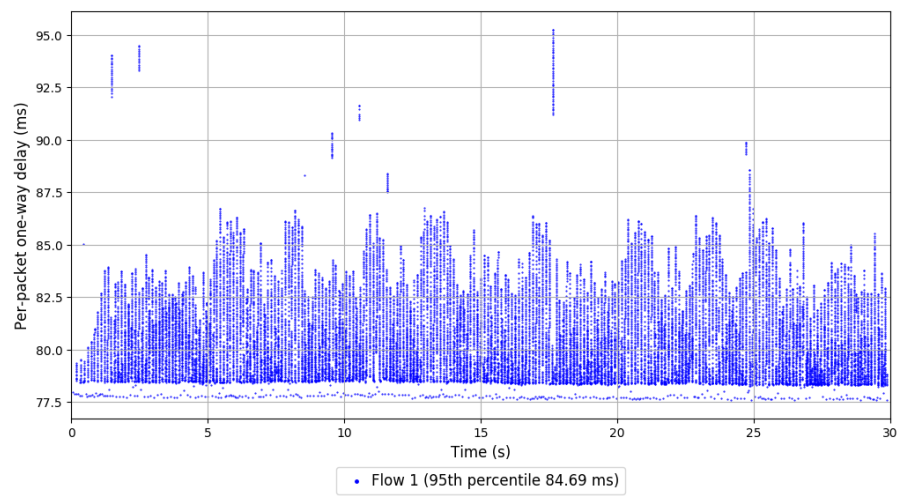
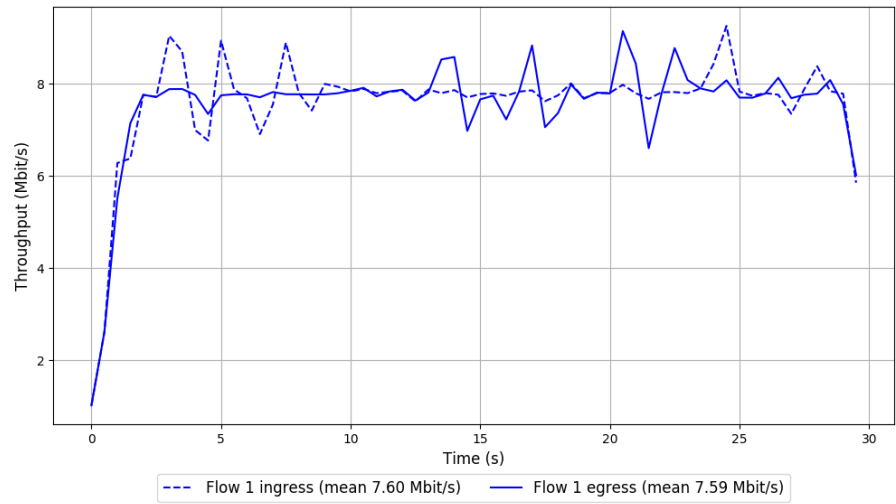


Run 5: Statistics of Sprout

Start at: 2018-03-20 12:15:56
End at: 2018-03-20 12:16:26
Local clock offset: -1.133 ms
Remote clock offset: -44.524 ms

Below is generated by plot.py at 2018-03-20 18:20:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.59 Mbit/s
95th percentile per-packet one-way delay: 84.692 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 7.59 Mbit/s
95th percentile per-packet one-way delay: 84.692 ms
Loss rate: 0.39%

Run 5: Report of Sprout — Data Link

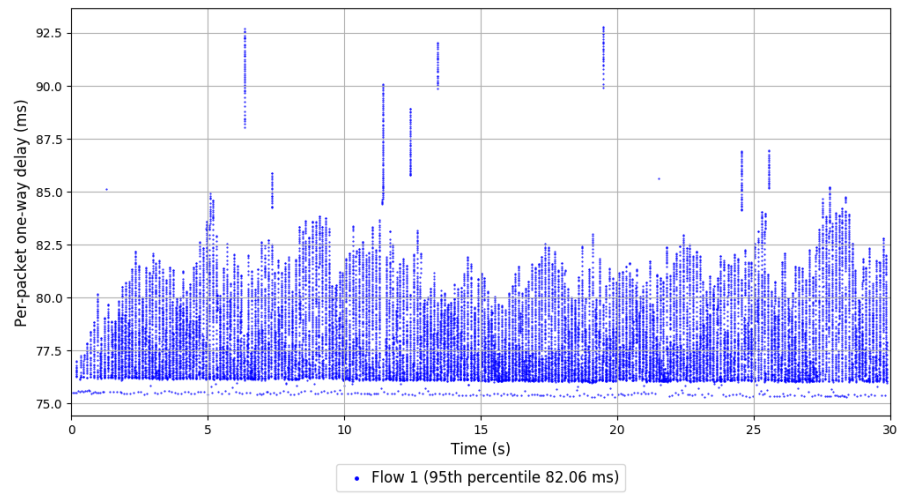
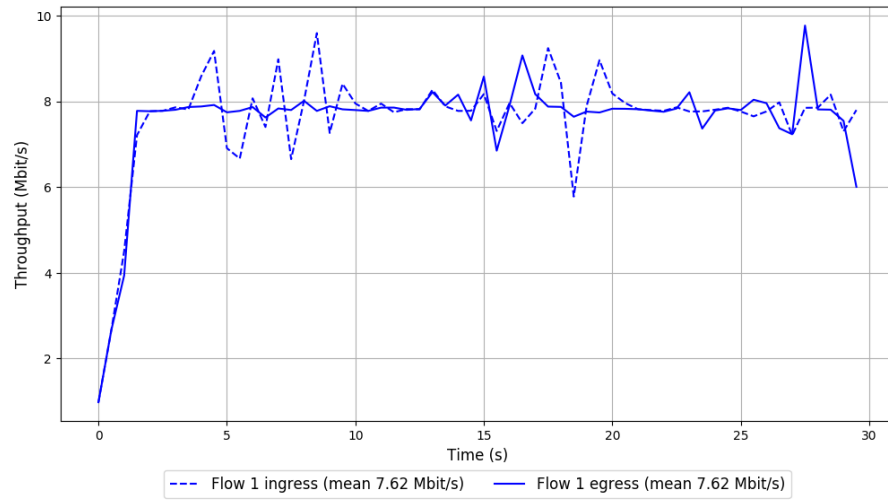


Run 6: Statistics of Sprout

Start at: 2018-03-20 12:38:42
End at: 2018-03-20 12:39:12
Local clock offset: 0.291 ms
Remote clock offset: -46.703 ms

Below is generated by plot.py at 2018-03-20 18:20:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.62 Mbit/s
95th percentile per-packet one-way delay: 82.065 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 7.62 Mbit/s
95th percentile per-packet one-way delay: 82.065 ms
Loss rate: 0.43%

Run 6: Report of Sprout — Data Link

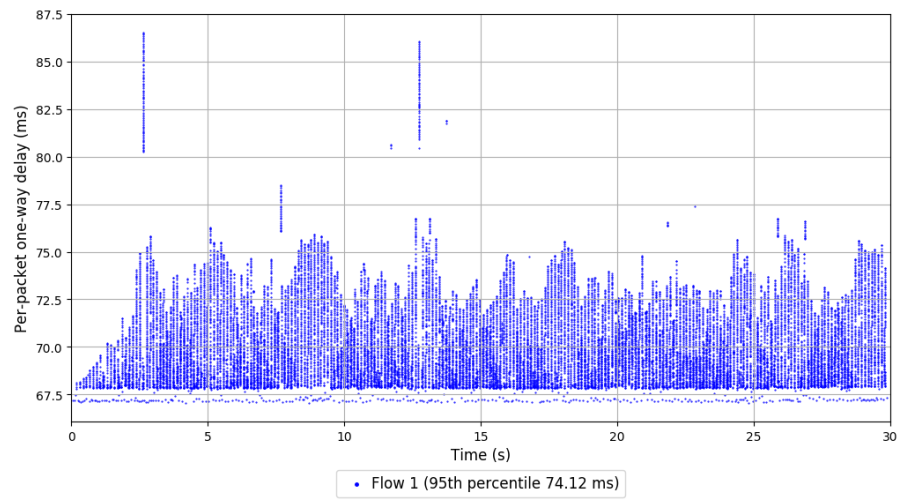
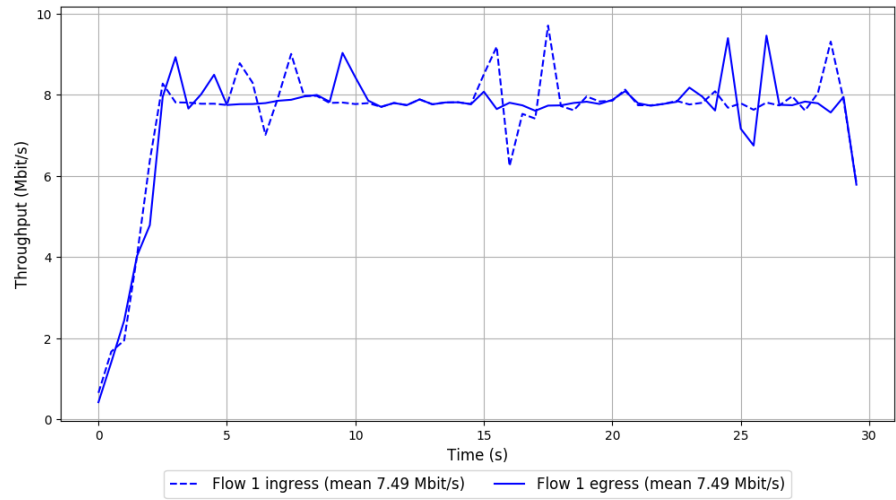


Run 7: Statistics of Sprout

Start at: 2018-03-20 13:00:37
End at: 2018-03-20 13:01:07
Local clock offset: 4.469 ms
Remote clock offset: -33.69 ms

Below is generated by plot.py at 2018-03-20 18:20:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.49 Mbit/s
95th percentile per-packet one-way delay: 74.122 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 7.49 Mbit/s
95th percentile per-packet one-way delay: 74.122 ms
Loss rate: 0.44%

Run 7: Report of Sprout — Data Link

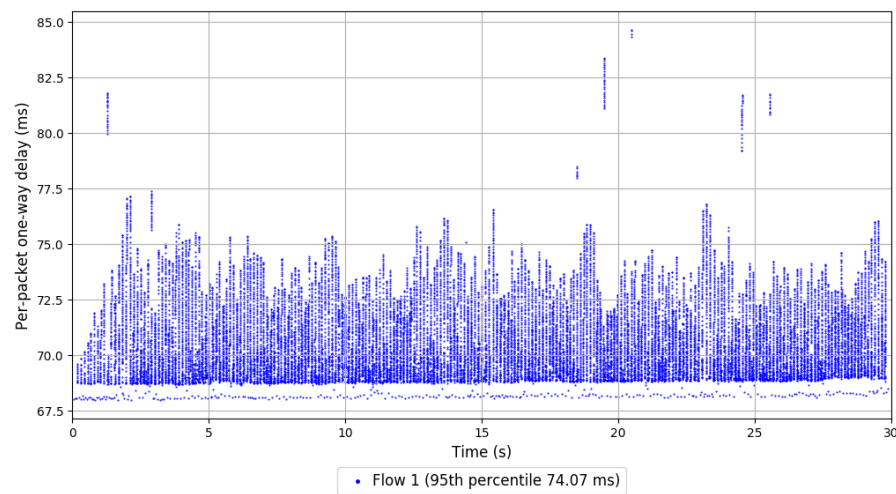
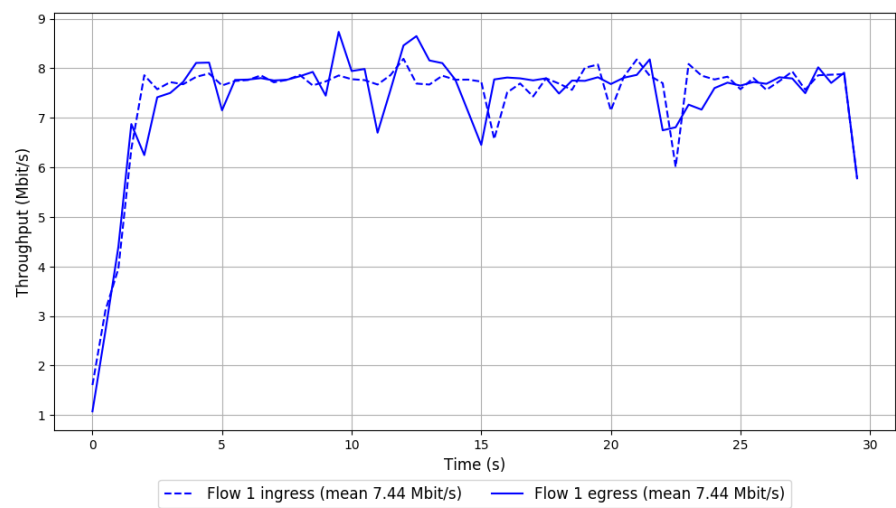


Run 8: Statistics of Sprout

Start at: 2018-03-20 13:22:38
End at: 2018-03-20 13:23:08
Local clock offset: -8.088 ms
Remote clock offset: -33.523 ms

Below is generated by plot.py at 2018-03-20 18:20:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.44 Mbit/s
95th percentile per-packet one-way delay: 74.070 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 7.44 Mbit/s
95th percentile per-packet one-way delay: 74.070 ms
Loss rate: 0.44%

Run 8: Report of Sprout — Data Link

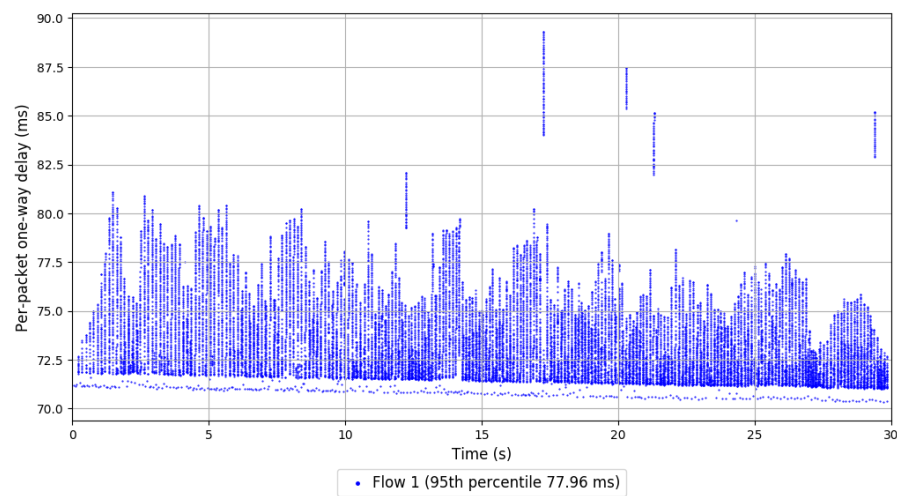
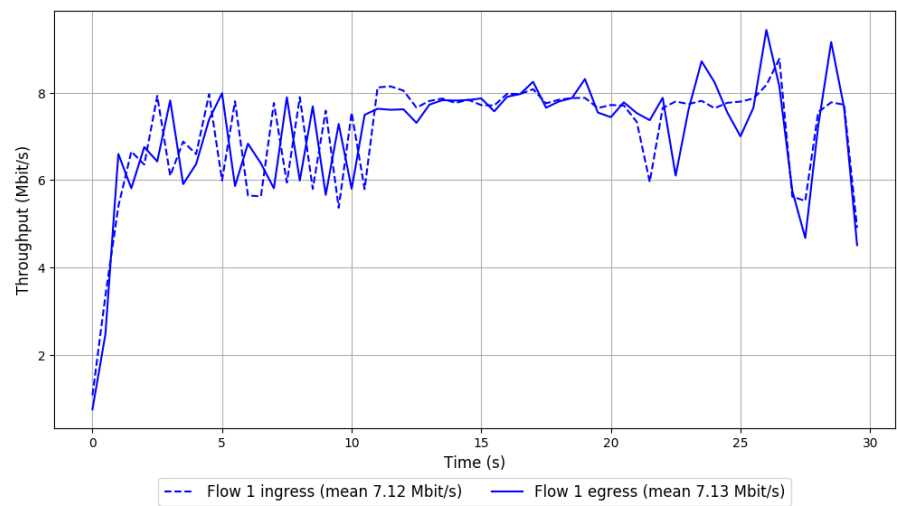


Run 9: Statistics of Sprout

Start at: 2018-03-20 13:45:22
End at: 2018-03-20 13:45:52
Local clock offset: -8.793 ms
Remote clock offset: -37.972 ms

Below is generated by plot.py at 2018-03-20 18:20:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.13 Mbit/s
95th percentile per-packet one-way delay: 77.957 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 7.13 Mbit/s
95th percentile per-packet one-way delay: 77.957 ms
Loss rate: 0.24%

Run 9: Report of Sprout — Data Link

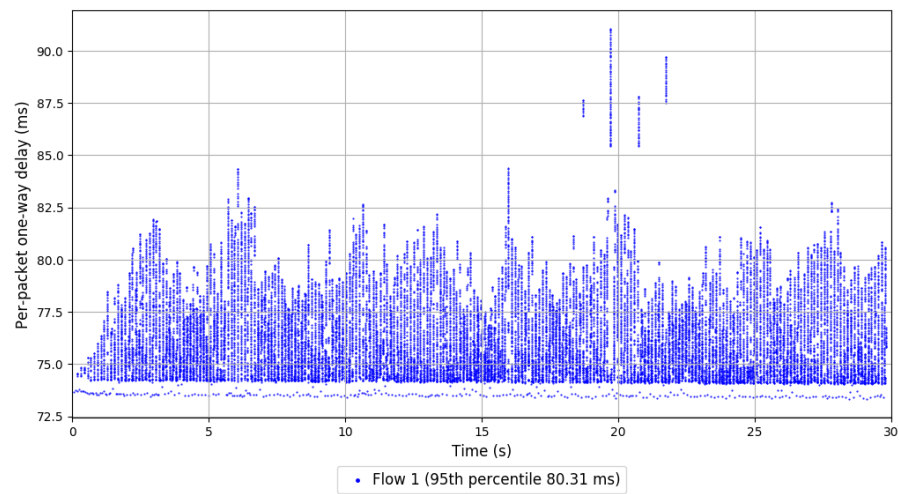
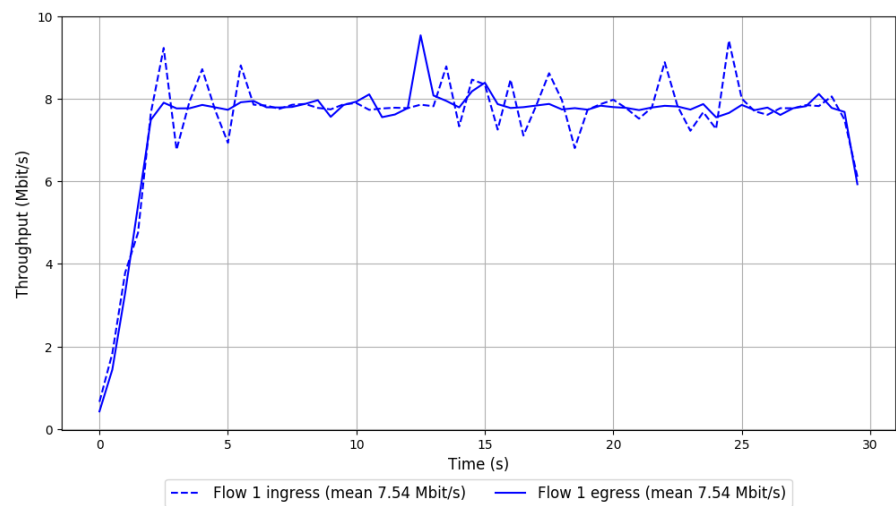


Run 10: Statistics of Sprout

Start at: 2018-03-20 14:07:14
End at: 2018-03-20 14:07:44
Local clock offset: 7.545 ms
Remote clock offset: -39.93 ms

Below is generated by plot.py at 2018-03-20 18:20:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.54 Mbit/s
95th percentile per-packet one-way delay: 80.311 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 7.54 Mbit/s
95th percentile per-packet one-way delay: 80.311 ms
Loss rate: 0.43%

Run 10: Report of Sprout — Data Link

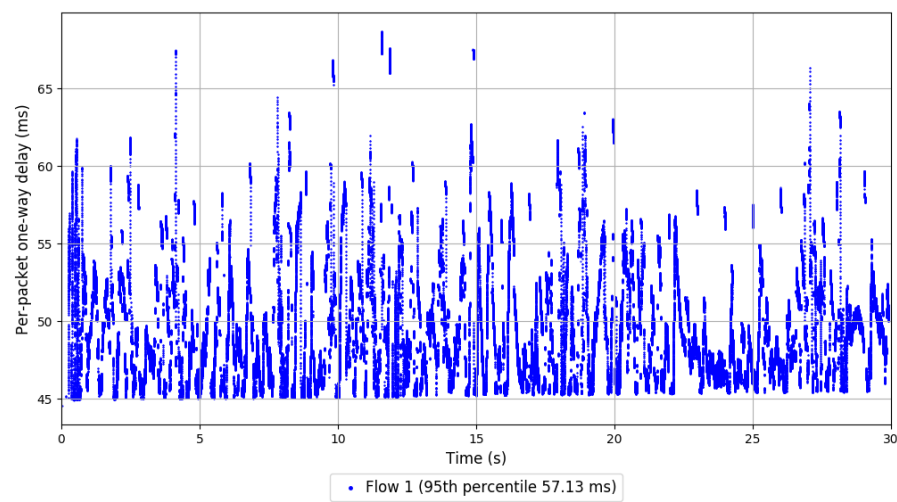
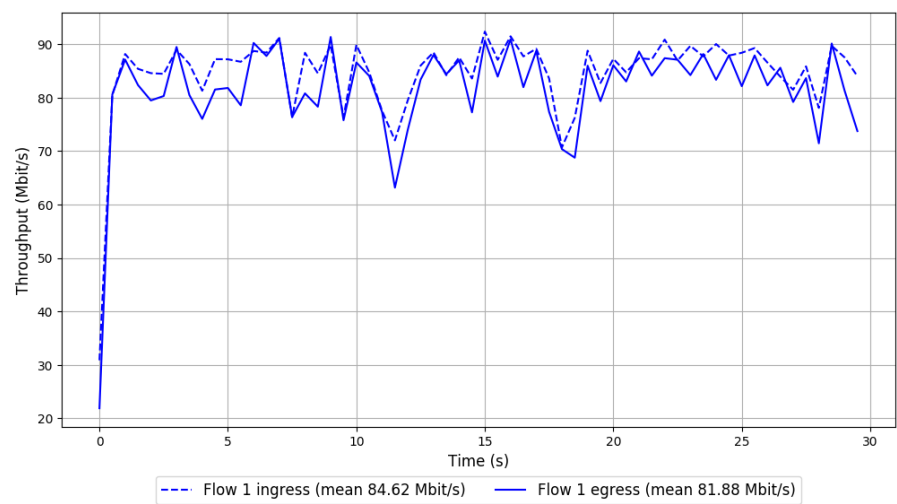


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-03-20 10:52:29
End at: 2018-03-20 10:52:59
Local clock offset: 1.686 ms
Remote clock offset: -14.106 ms

# Below is generated by plot.py at 2018-03-20 18:22:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.88 Mbit/s
95th percentile per-packet one-way delay: 57.134 ms
Loss rate: 3.57%
-- Flow 1:
Average throughput: 81.88 Mbit/s
95th percentile per-packet one-way delay: 57.134 ms
Loss rate: 3.57%
```

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

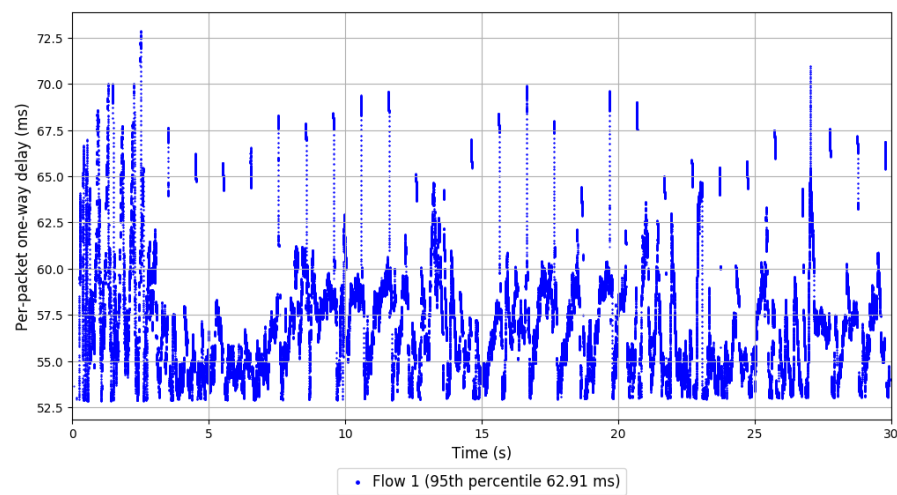
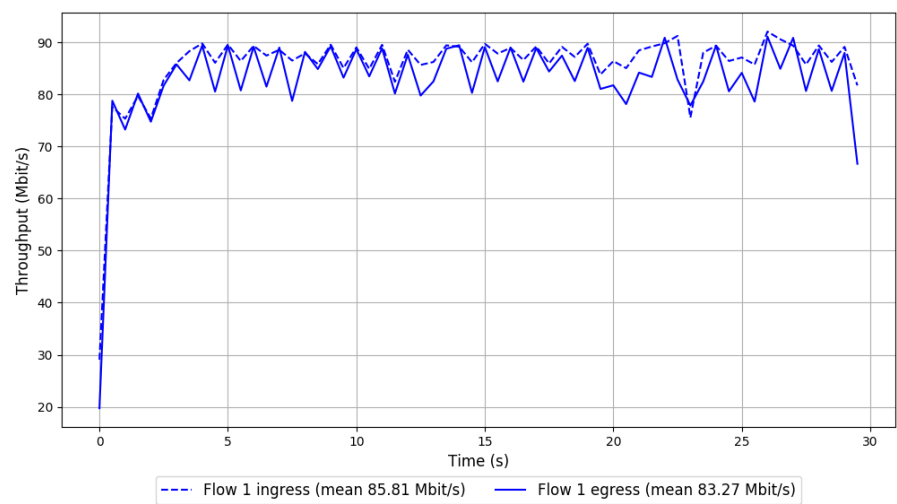


Run 2: Statistics of TaoVA-100x

Start at: 2018-03-20 11:14:12
End at: 2018-03-20 11:14:42
Local clock offset: -12.404 ms
Remote clock offset: -19.42 ms

Below is generated by plot.py at 2018-03-20 18:22:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 83.27 Mbit/s
95th percentile per-packet one-way delay: 62.907 ms
Loss rate: 3.30%
-- Flow 1:
Average throughput: 83.27 Mbit/s
95th percentile per-packet one-way delay: 62.907 ms
Loss rate: 3.30%

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

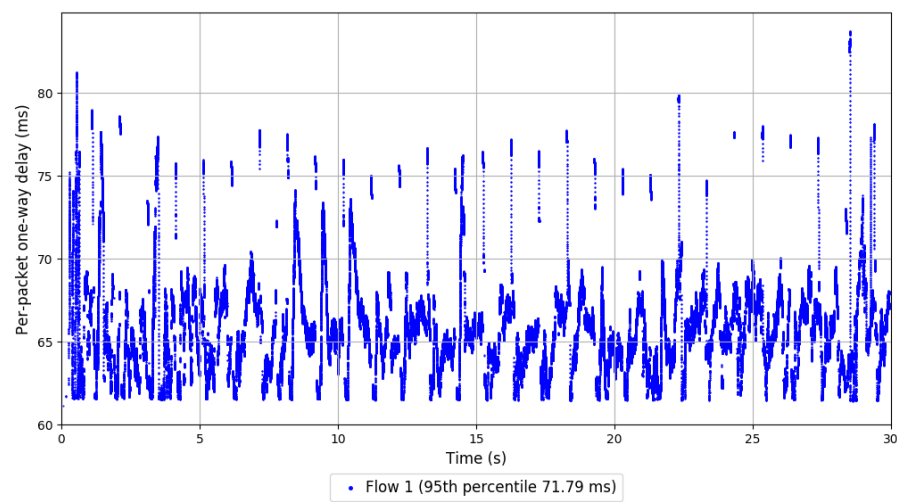
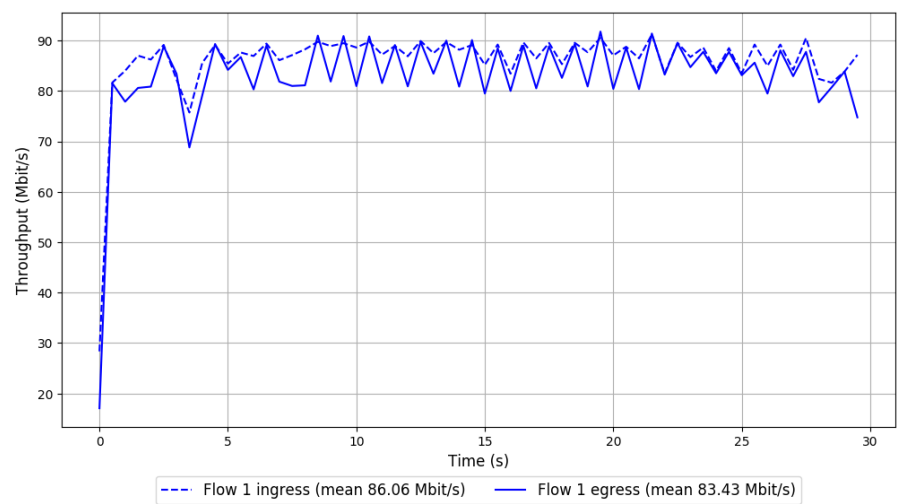


Run 3: Statistics of TaoVA-100x

Start at: 2018-03-20 11:36:42
End at: 2018-03-20 11:37:12
Local clock offset: -1.973 ms
Remote clock offset: -26.753 ms

Below is generated by plot.py at 2018-03-20 18:22:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 83.43 Mbit/s
95th percentile per-packet one-way delay: 71.792 ms
Loss rate: 3.42%
-- Flow 1:
Average throughput: 83.43 Mbit/s
95th percentile per-packet one-way delay: 71.792 ms
Loss rate: 3.42%

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

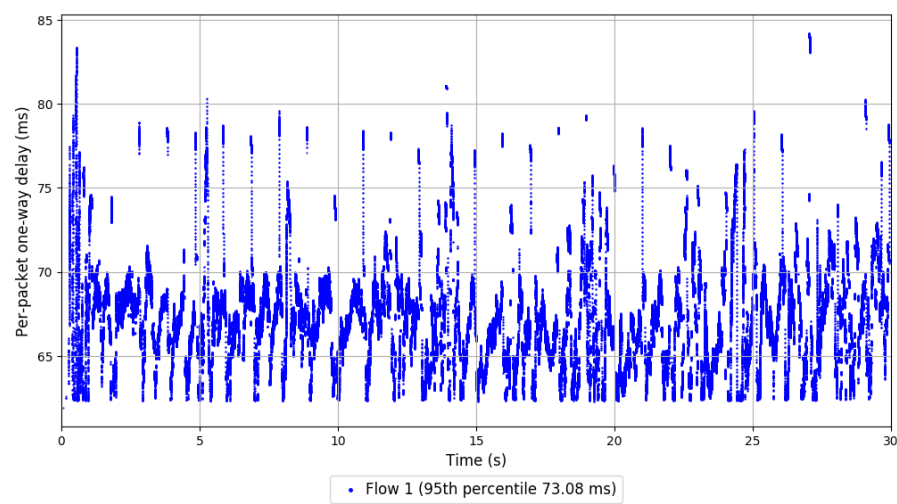
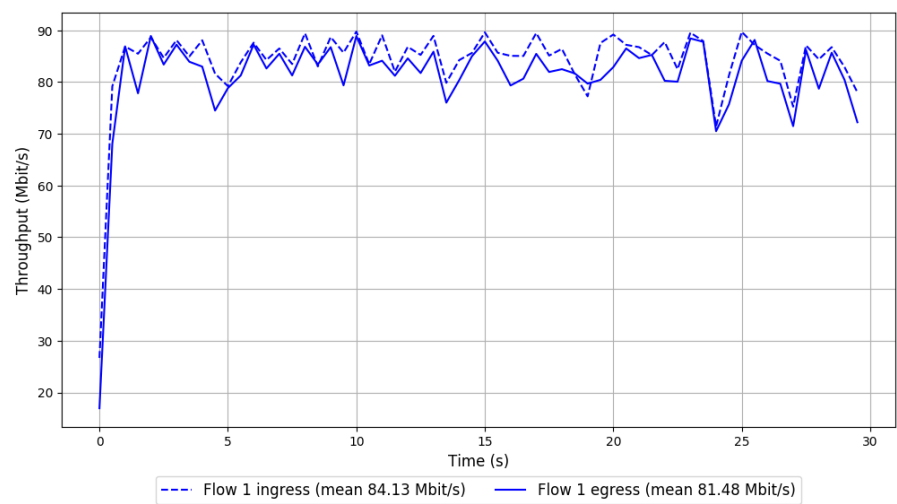


Run 4: Statistics of TaoVA-100x

Start at: 2018-03-20 11:58:46
End at: 2018-03-20 11:59:17
Local clock offset: 2.502 ms
Remote clock offset: -24.831 ms

Below is generated by plot.py at 2018-03-20 18:22:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 81.48 Mbit/s
95th percentile per-packet one-way delay: 73.084 ms
Loss rate: 3.49%
-- Flow 1:
Average throughput: 81.48 Mbit/s
95th percentile per-packet one-way delay: 73.084 ms
Loss rate: 3.49%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-03-20 12:20:45

End at: 2018-03-20 12:21:15

Local clock offset: -0.94 ms

Remote clock offset: -46.43 ms

Below is generated by plot.py at 2018-03-20 18:22:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.42 Mbit/s

95th percentile per-packet one-way delay: 91.730 ms

Loss rate: 2.62%

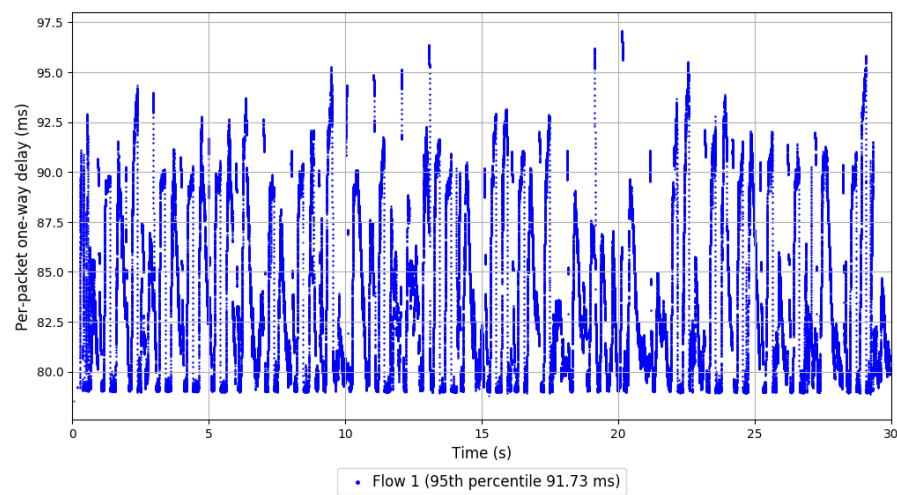
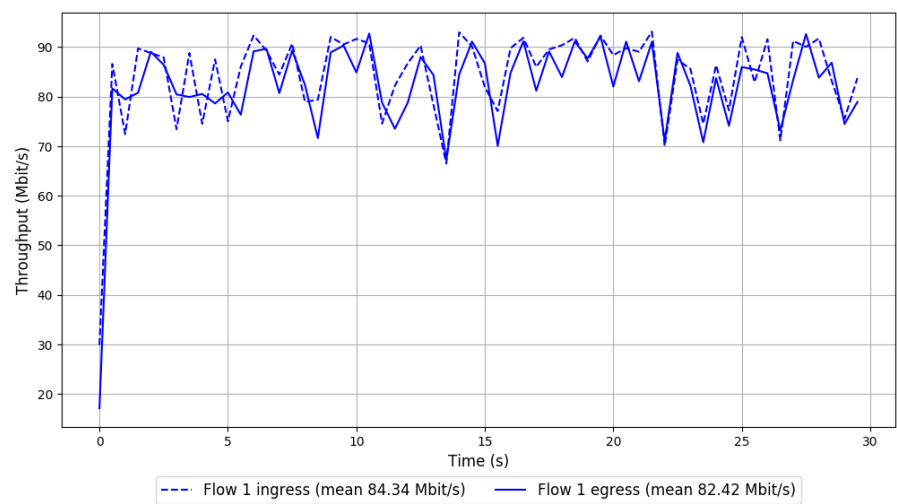
-- Flow 1:

Average throughput: 82.42 Mbit/s

95th percentile per-packet one-way delay: 91.730 ms

Loss rate: 2.62%

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

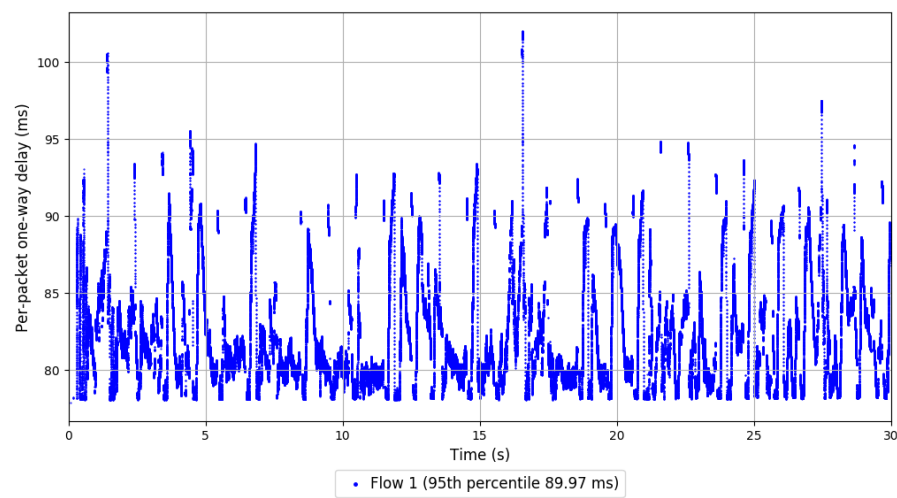
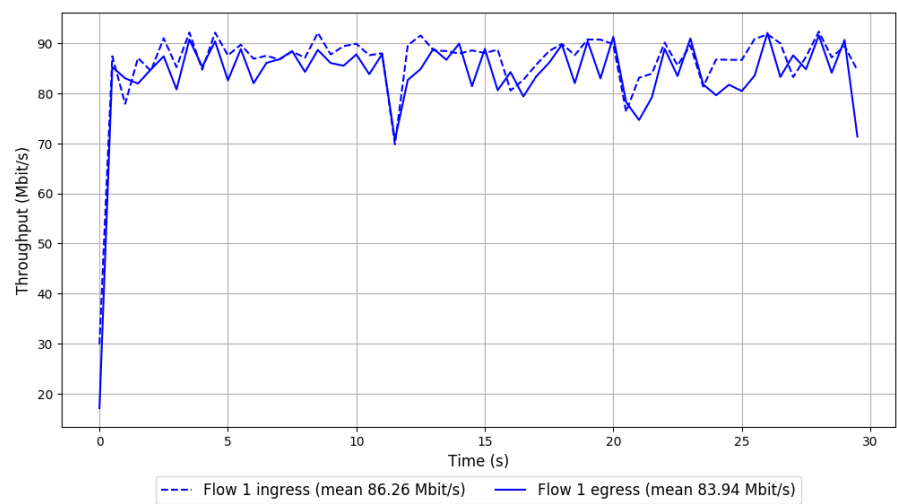


Run 6: Statistics of TaoVA-100x

Start at: 2018-03-20 12:43:37
End at: 2018-03-20 12:44:07
Local clock offset: 2.481 ms
Remote clock offset: -47.895 ms

Below is generated by plot.py at 2018-03-20 18:22:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 83.94 Mbit/s
95th percentile per-packet one-way delay: 89.971 ms
Loss rate: 3.05%
-- Flow 1:
Average throughput: 83.94 Mbit/s
95th percentile per-packet one-way delay: 89.971 ms
Loss rate: 3.05%

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

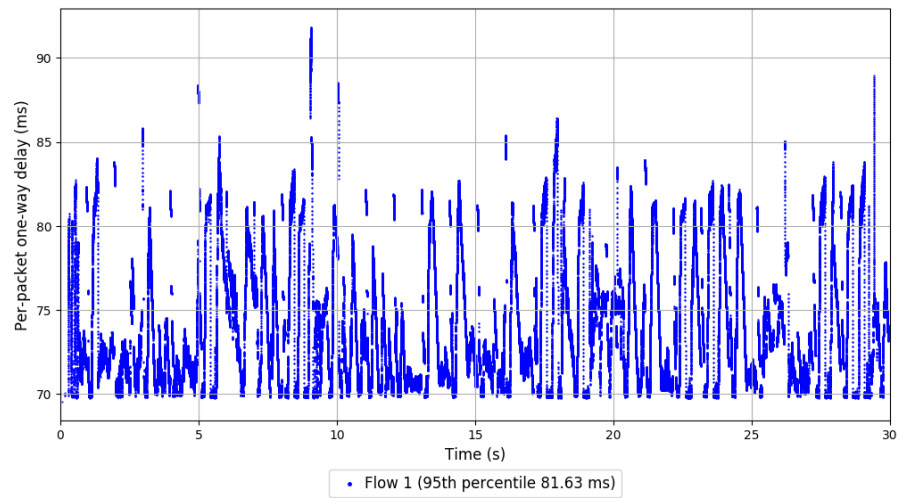
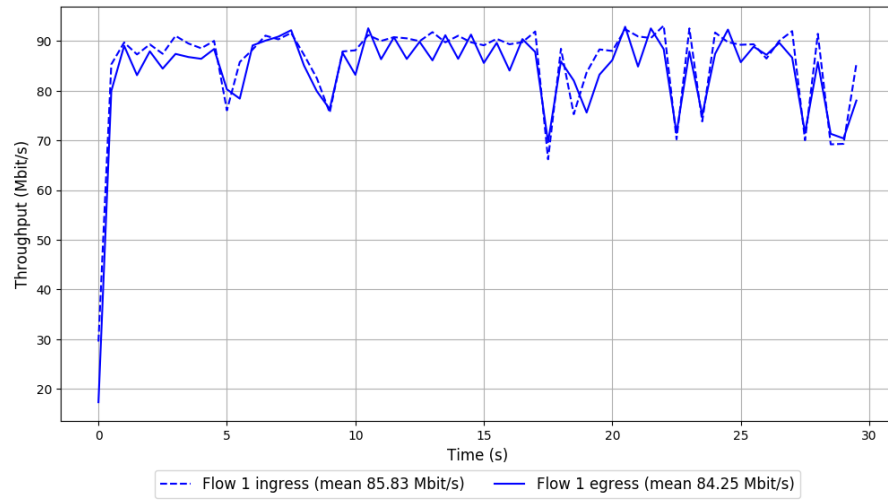


Run 7: Statistics of TaoVA-100x

Start at: 2018-03-20 13:05:27
End at: 2018-03-20 13:05:57
Local clock offset: 4.807 ms
Remote clock offset: -35.504 ms

Below is generated by plot.py at 2018-03-20 18:22:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.25 Mbit/s
95th percentile per-packet one-way delay: 81.633 ms
Loss rate: 2.18%
-- Flow 1:
Average throughput: 84.25 Mbit/s
95th percentile per-packet one-way delay: 81.633 ms
Loss rate: 2.18%

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

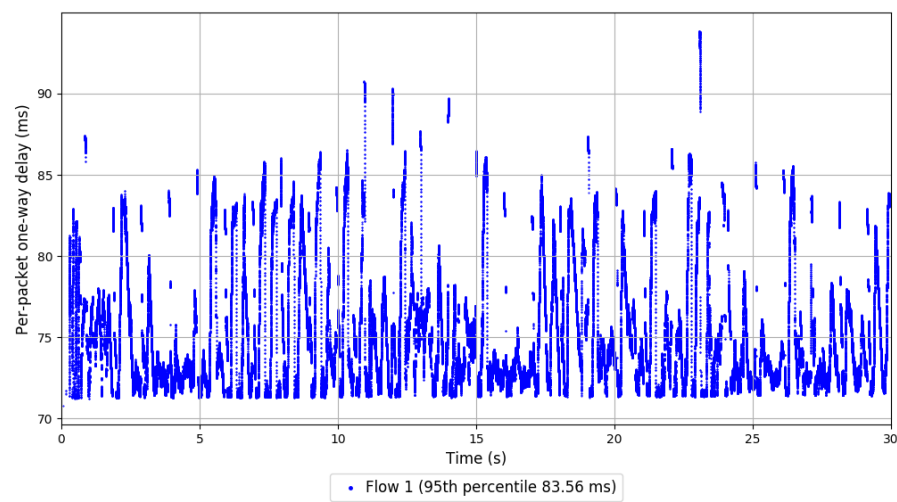
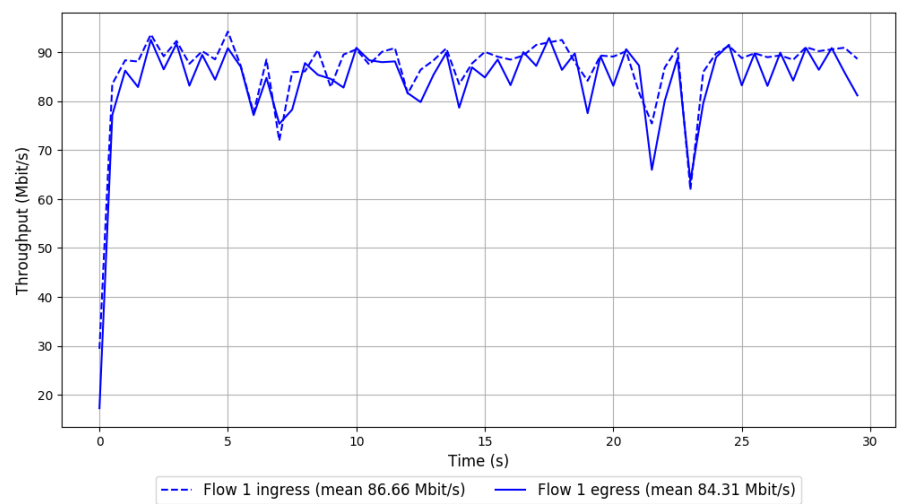


Run 8: Statistics of TaoVA-100x

Start at: 2018-03-20 13:27:25
End at: 2018-03-20 13:27:55
Local clock offset: -10.068 ms
Remote clock offset: -36.521 ms

Below is generated by plot.py at 2018-03-20 18:22:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.31 Mbit/s
95th percentile per-packet one-way delay: 83.563 ms
Loss rate: 3.07%
-- Flow 1:
Average throughput: 84.31 Mbit/s
95th percentile per-packet one-way delay: 83.563 ms
Loss rate: 3.07%

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

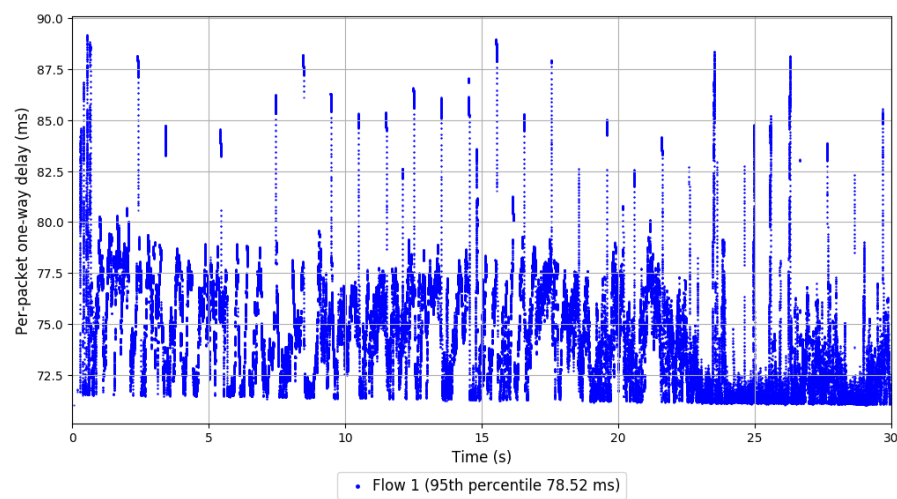
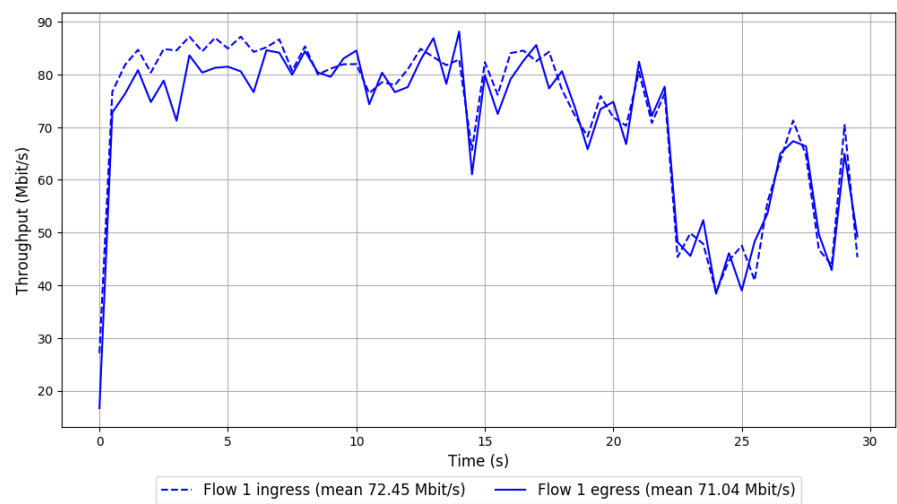


Run 9: Statistics of TaoVA-100x

Start at: 2018-03-20 13:50:17
End at: 2018-03-20 13:50:47
Local clock offset: -1.734 ms
Remote clock offset: -37.218 ms

Below is generated by plot.py at 2018-03-20 18:24:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 71.04 Mbit/s
95th percentile per-packet one-way delay: 78.517 ms
Loss rate: 2.32%
-- Flow 1:
Average throughput: 71.04 Mbit/s
95th percentile per-packet one-way delay: 78.517 ms
Loss rate: 2.32%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-03-20 14:12:03

End at: 2018-03-20 14:12:33

Local clock offset: 8.481 ms

Remote clock offset: -38.737 ms

Below is generated by plot.py at 2018-03-20 18:24:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.51 Mbit/s

95th percentile per-packet one-way delay: 82.647 ms

Loss rate: 2.37%

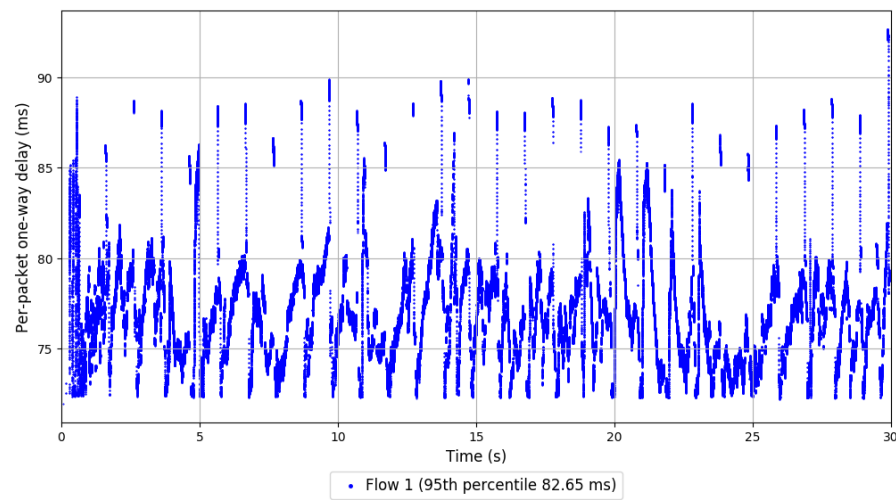
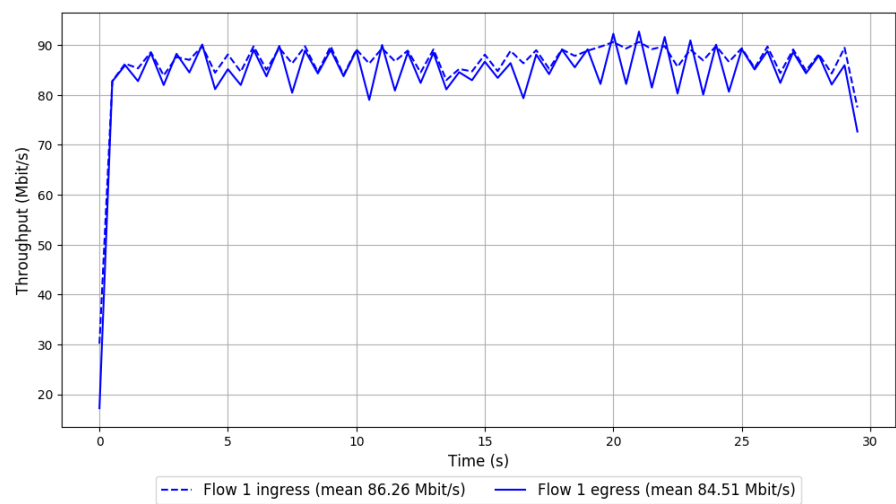
-- Flow 1:

Average throughput: 84.51 Mbit/s

95th percentile per-packet one-way delay: 82.647 ms

Loss rate: 2.37%

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

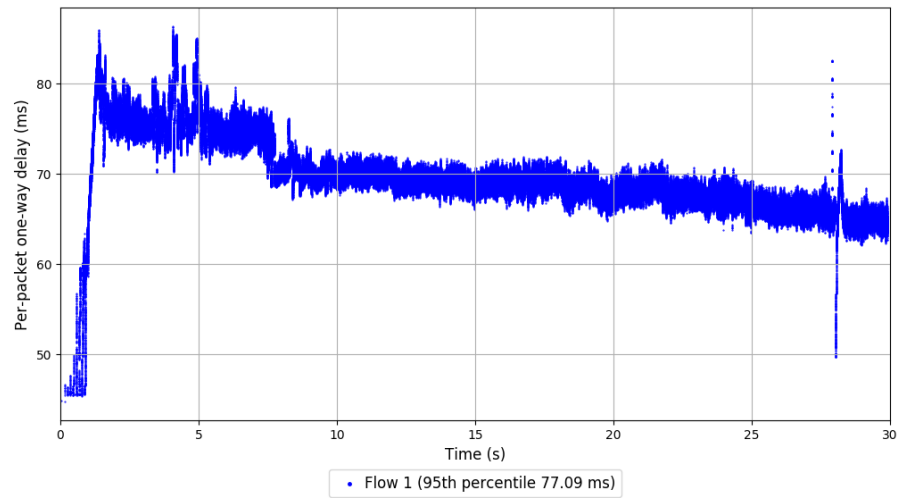
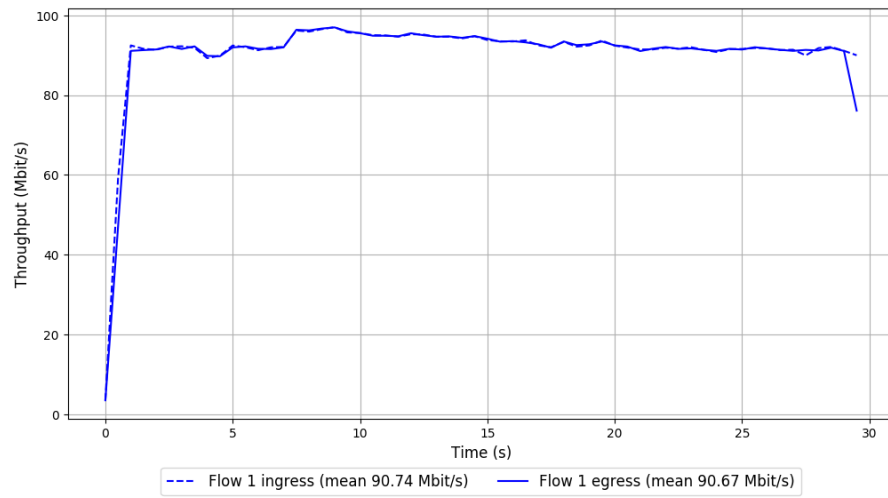


Run 1: Statistics of TCP Vegas

Start at: 2018-03-20 10:44:03
End at: 2018-03-20 10:44:33
Local clock offset: 3.889 ms
Remote clock offset: -14.143 ms

Below is generated by plot.py at 2018-03-20 18:24:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.67 Mbit/s
95th percentile per-packet one-way delay: 77.089 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 90.67 Mbit/s
95th percentile per-packet one-way delay: 77.089 ms
Loss rate: 0.47%

Run 1: Report of TCP Vegas — Data Link

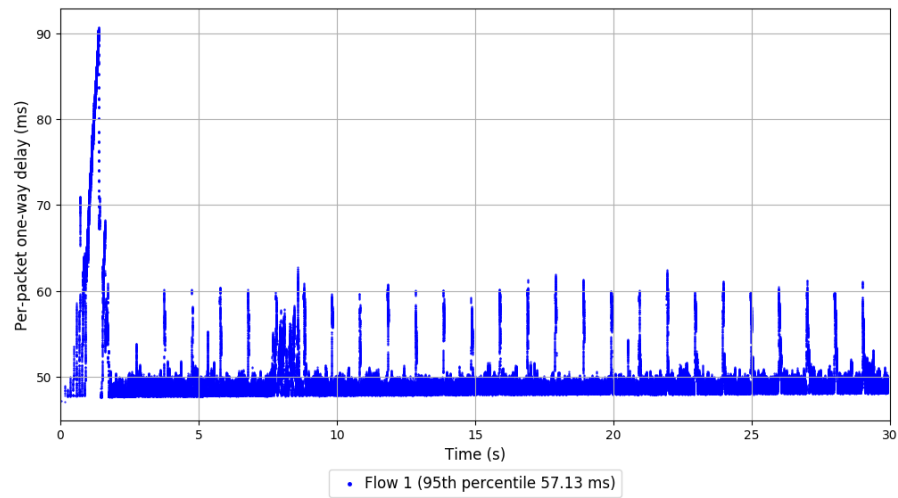
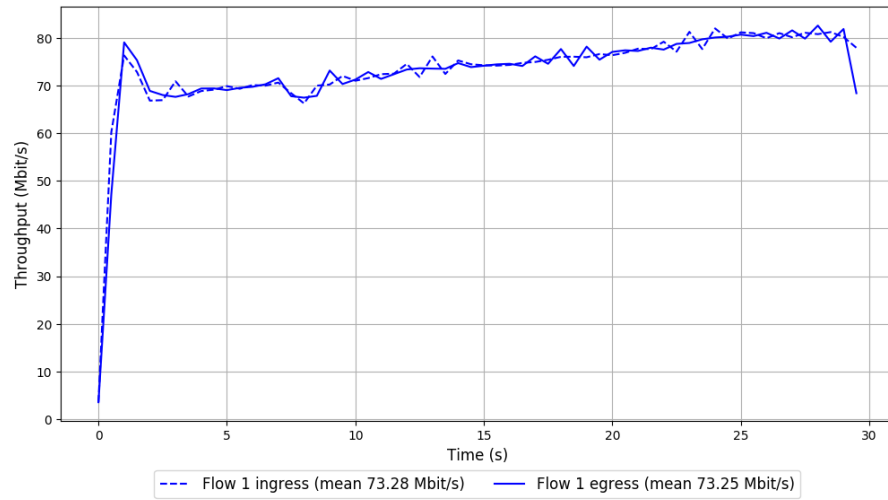


Run 2: Statistics of TCP Vegas

Start at: 2018-03-20 11:05:51
End at: 2018-03-20 11:06:21
Local clock offset: -8.501 ms
Remote clock offset: -15.182 ms

Below is generated by plot.py at 2018-03-20 18:24:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 73.25 Mbit/s
95th percentile per-packet one-way delay: 57.130 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 73.25 Mbit/s
95th percentile per-packet one-way delay: 57.130 ms
Loss rate: 0.39%

Run 2: Report of TCP Vegas — Data Link

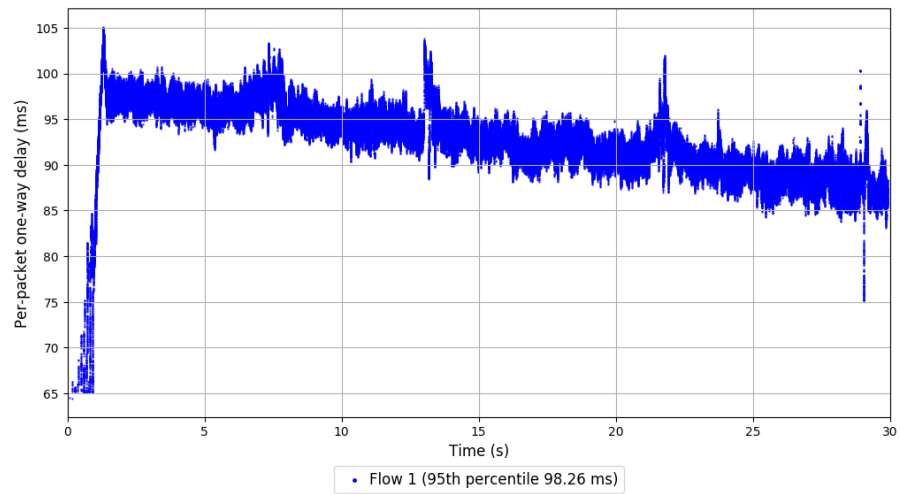
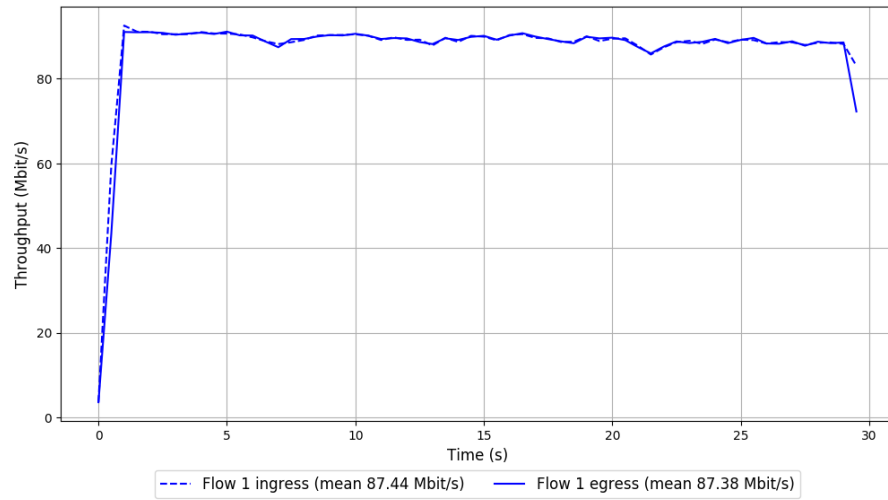


Run 3: Statistics of TCP Vegas

Start at: 2018-03-20 11:27:35
End at: 2018-03-20 11:28:05
Local clock offset: -11.332 ms
Remote clock offset: -31.53 ms

Below is generated by plot.py at 2018-03-20 18:24:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.38 Mbit/s
95th percentile per-packet one-way delay: 98.258 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 87.38 Mbit/s
95th percentile per-packet one-way delay: 98.258 ms
Loss rate: 0.50%

Run 3: Report of TCP Vegas — Data Link

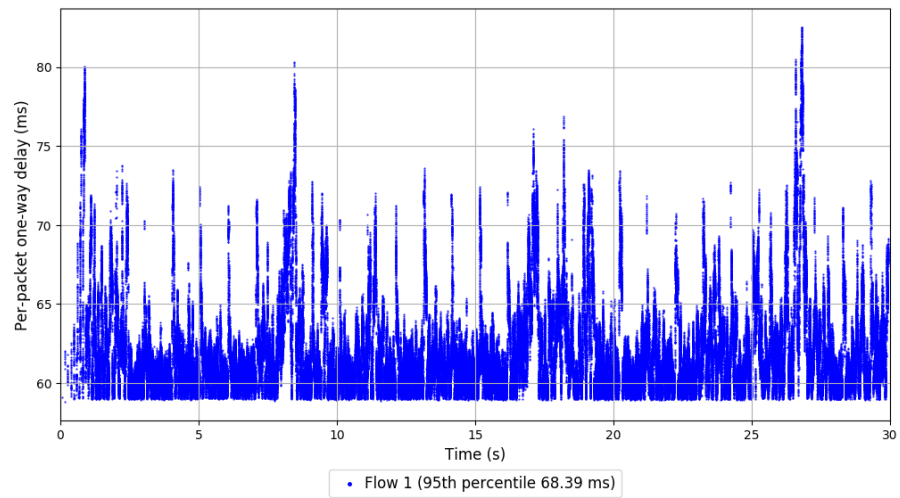
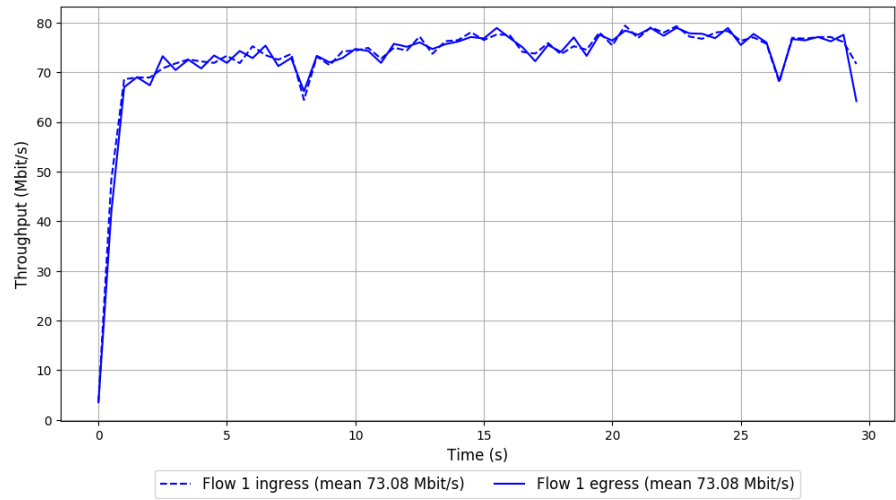


Run 4: Statistics of TCP Vegas

Start at: 2018-03-20 11:50:04
End at: 2018-03-20 11:50:34
Local clock offset: 1.686 ms
Remote clock offset: -21.817 ms

Below is generated by plot.py at 2018-03-20 18:24:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 73.08 Mbit/s
95th percentile per-packet one-way delay: 68.392 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 73.08 Mbit/s
95th percentile per-packet one-way delay: 68.392 ms
Loss rate: 0.38%

Run 4: Report of TCP Vegas — Data Link

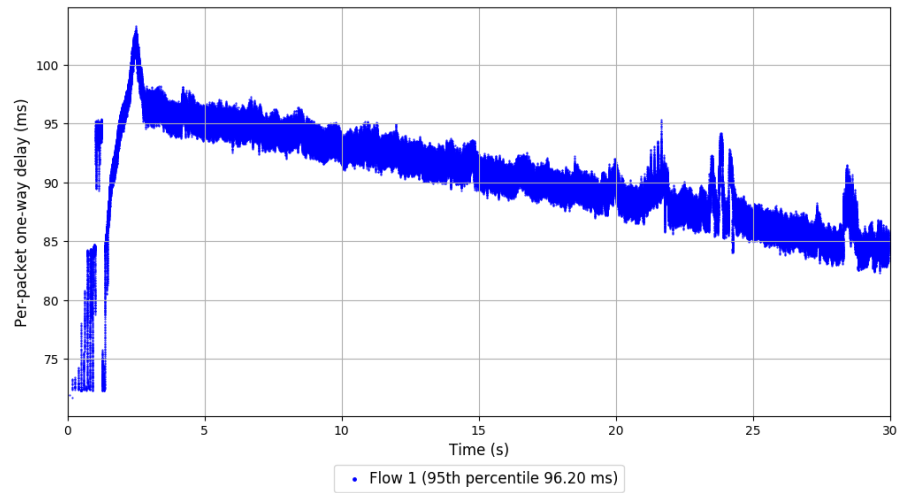
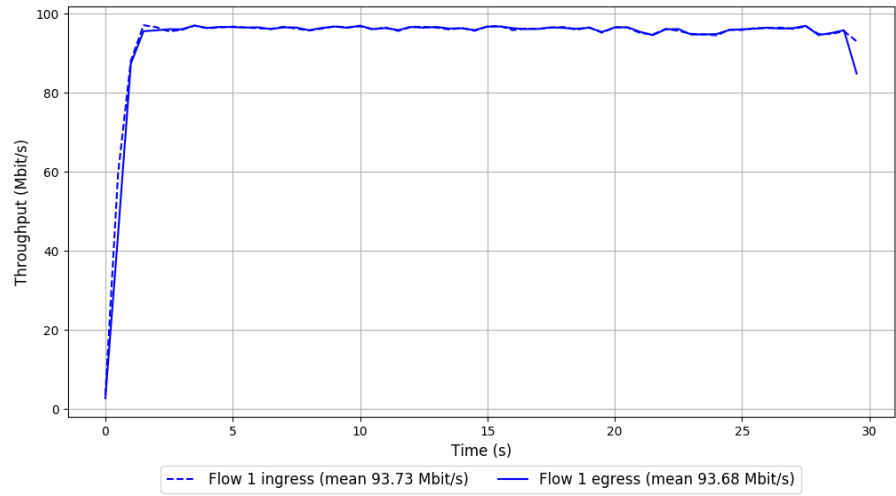


Run 5: Statistics of TCP Vegas

Start at: 2018-03-20 12:12:19
End at: 2018-03-20 12:12:49
Local clock offset: -0.184 ms
Remote clock offset: -35.962 ms

Below is generated by plot.py at 2018-03-20 18:24:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.68 Mbit/s
95th percentile per-packet one-way delay: 96.198 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 93.68 Mbit/s
95th percentile per-packet one-way delay: 96.198 ms
Loss rate: 0.43%

Run 5: Report of TCP Vegas — Data Link

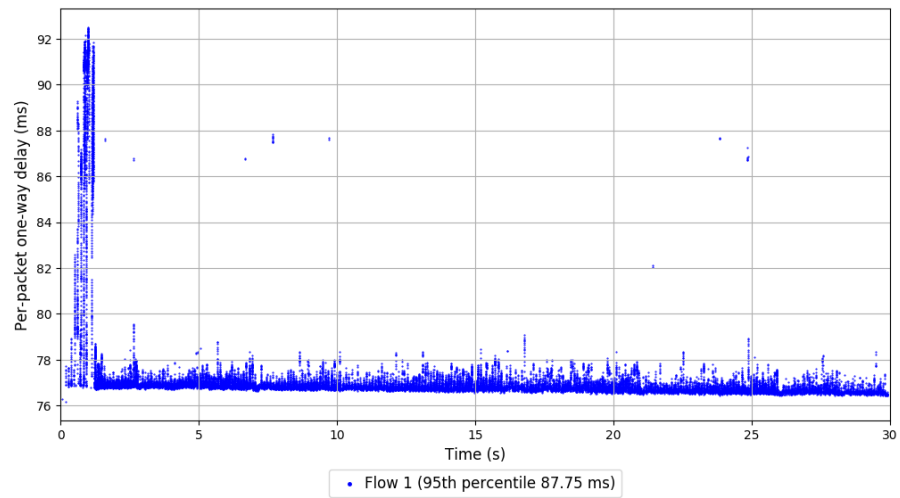
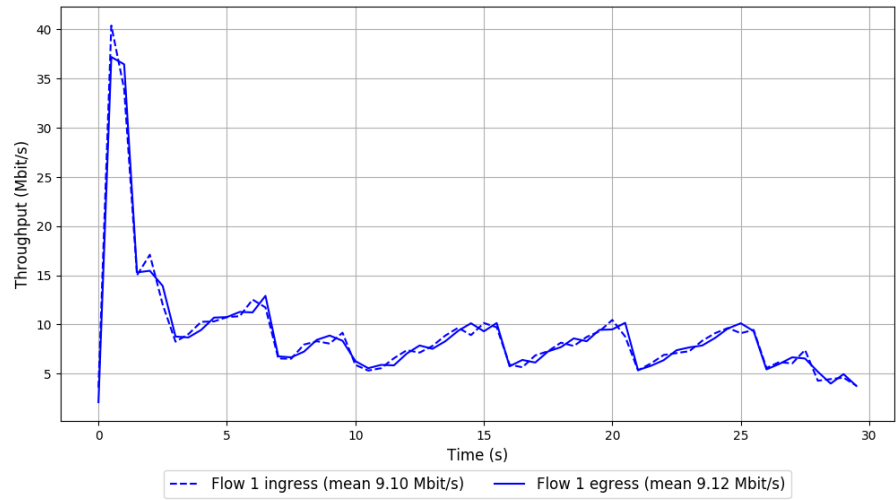


Run 6: Statistics of TCP Vegas

Start at: 2018-03-20 12:34:23
End at: 2018-03-20 12:34:53
Local clock offset: -1.178 ms
Remote clock offset: -46.327 ms

Below is generated by plot.py at 2018-03-20 18:24:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.12 Mbit/s
95th percentile per-packet one-way delay: 87.746 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 9.12 Mbit/s
95th percentile per-packet one-way delay: 87.746 ms
Loss rate: 0.22%

Run 6: Report of TCP Vegas — Data Link

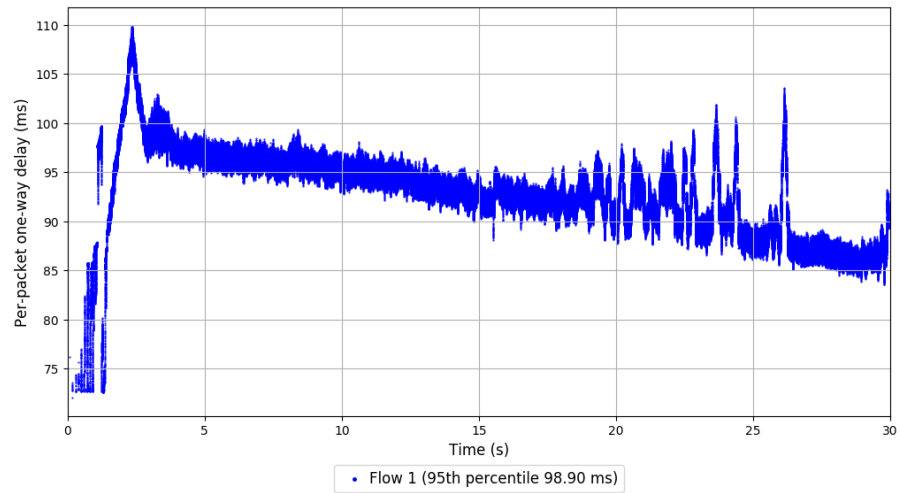
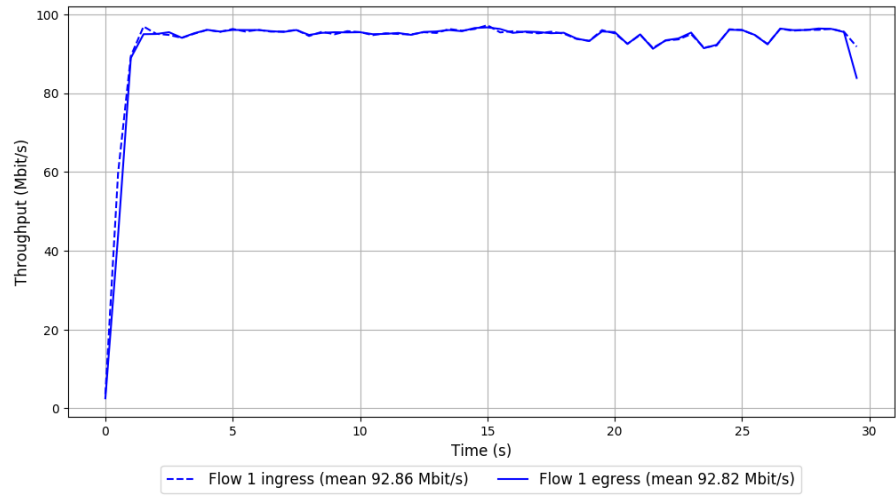


Run 7: Statistics of TCP Vegas

Start at: 2018-03-20 12:57:01
End at: 2018-03-20 12:57:31
Local clock offset: 4.41 ms
Remote clock offset: -39.274 ms

Below is generated by plot.py at 2018-03-20 18:24:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.82 Mbit/s
95th percentile per-packet one-way delay: 98.901 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 92.82 Mbit/s
95th percentile per-packet one-way delay: 98.901 ms
Loss rate: 0.44%

Run 7: Report of TCP Vegas — Data Link

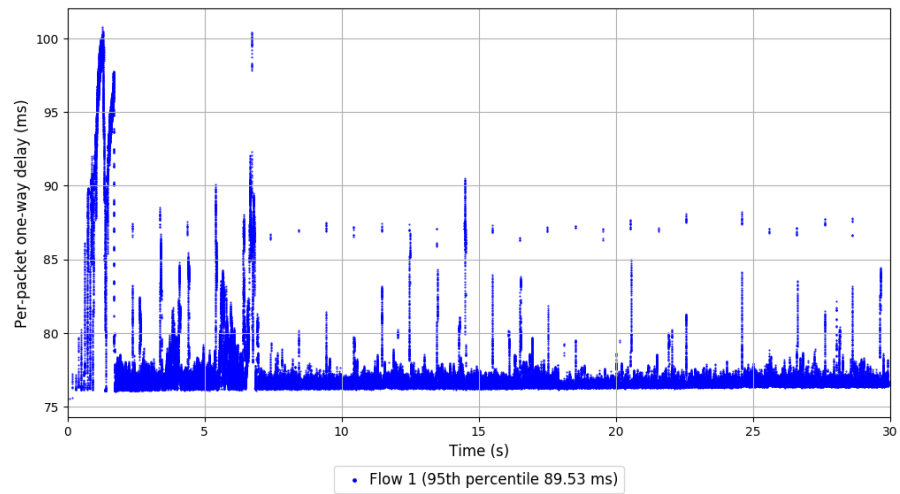
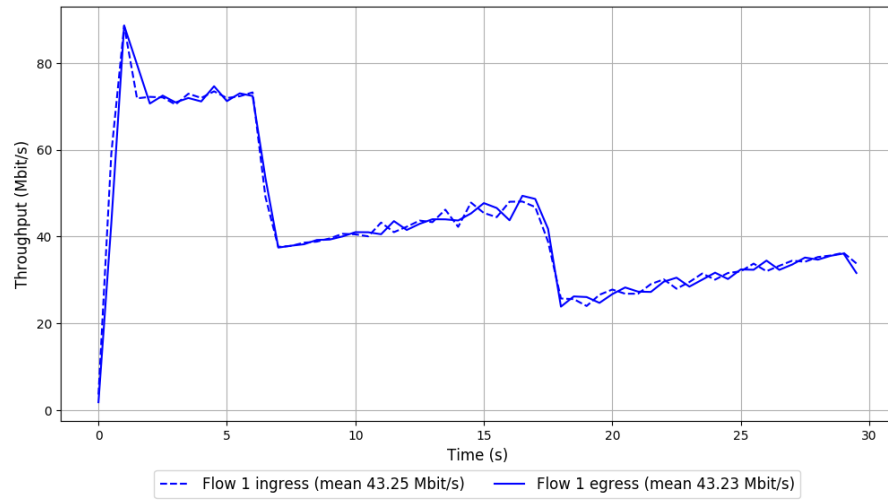


Run 8: Statistics of TCP Vegas

Start at: 2018-03-20 13:19:03
End at: 2018-03-20 13:19:33
Local clock offset: -6.845 ms
Remote clock offset: -41.039 ms

Below is generated by plot.py at 2018-03-20 18:24:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 43.23 Mbit/s
95th percentile per-packet one-way delay: 89.533 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 43.23 Mbit/s
95th percentile per-packet one-way delay: 89.533 ms
Loss rate: 0.38%

Run 8: Report of TCP Vegas — Data Link

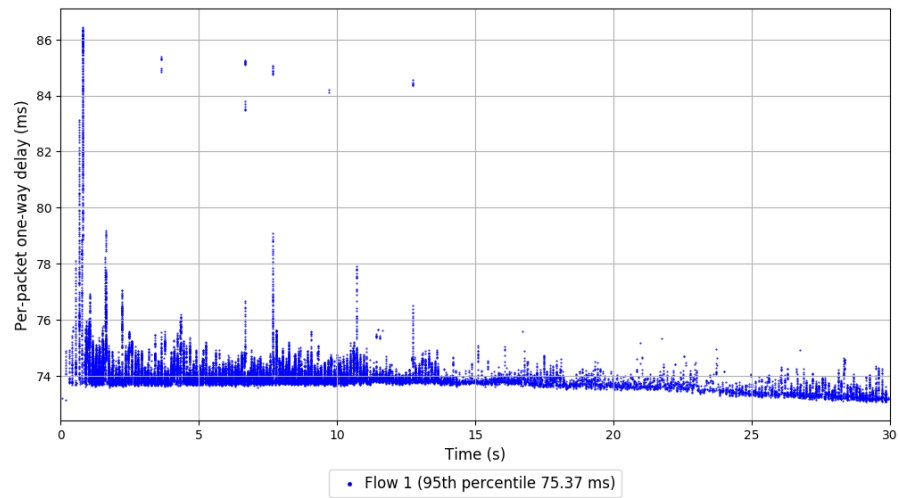
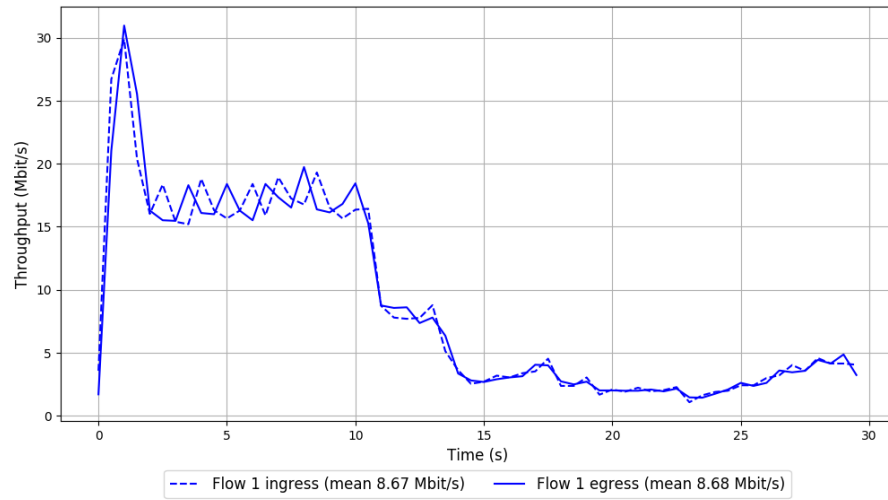


Run 9: Statistics of TCP Vegas

Start at: 2018-03-20 13:41:50
End at: 2018-03-20 13:42:20
Local clock offset: -14.417 ms
Remote clock offset: -39.234 ms

Below is generated by plot.py at 2018-03-20 18:24:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 8.68 Mbit/s
95th percentile per-packet one-way delay: 75.372 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 8.68 Mbit/s
95th percentile per-packet one-way delay: 75.372 ms
Loss rate: 0.26%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-03-20 14:03:39

End at: 2018-03-20 14:04:09

Local clock offset: 6.102 ms

Remote clock offset: -51.052 ms

Below is generated by plot.py at 2018-03-20 18:24:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.34 Mbit/s

95th percentile per-packet one-way delay: 91.759 ms

Loss rate: 0.39%

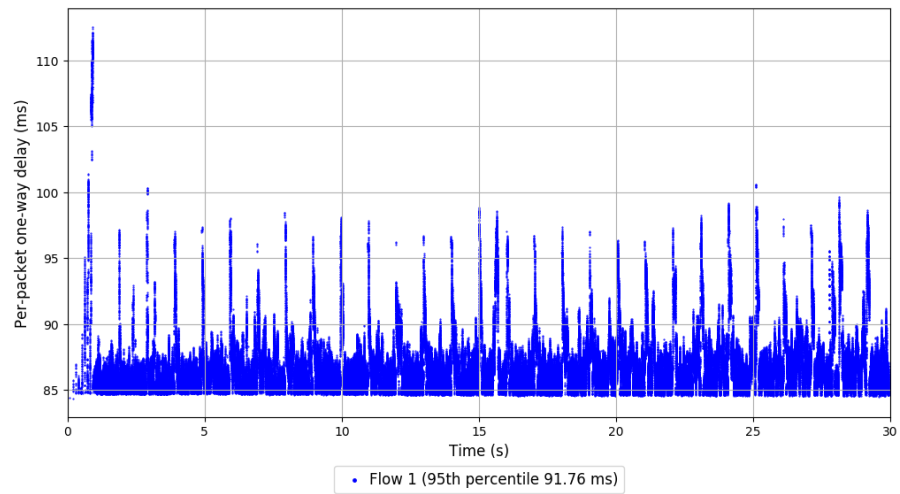
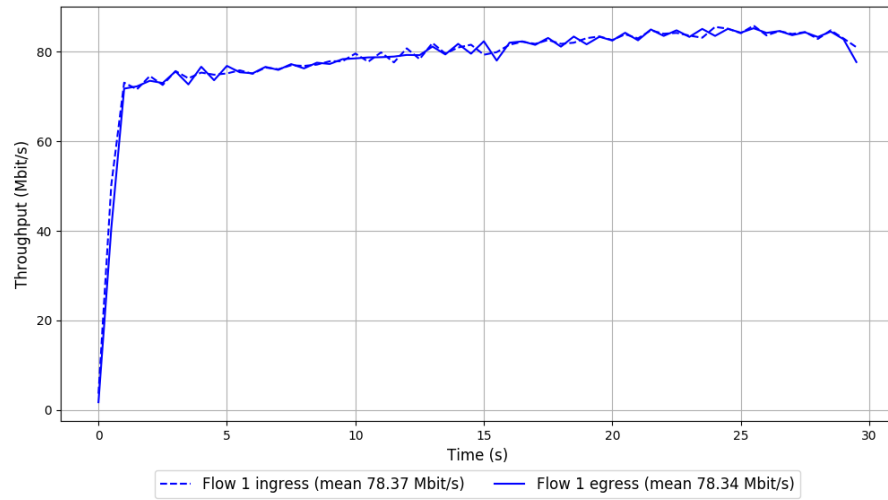
-- Flow 1:

Average throughput: 78.34 Mbit/s

95th percentile per-packet one-way delay: 91.759 ms

Loss rate: 0.39%

Run 10: Report of TCP Vegas — Data Link

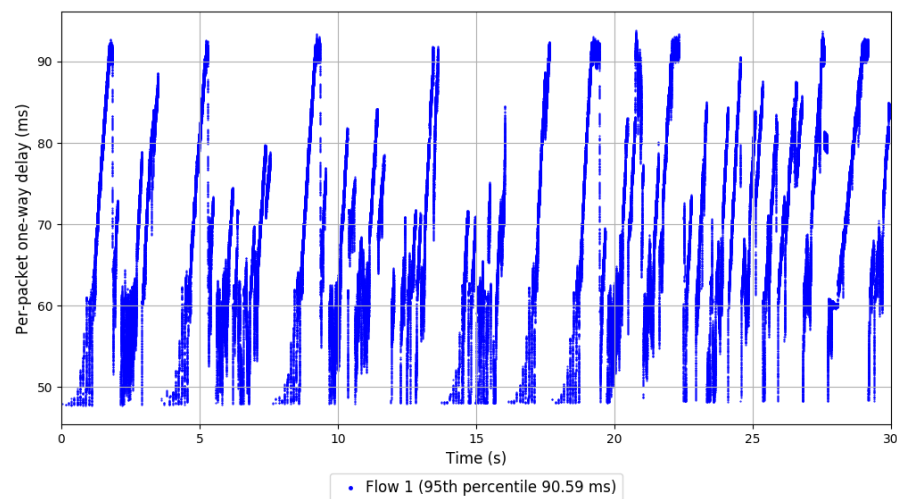
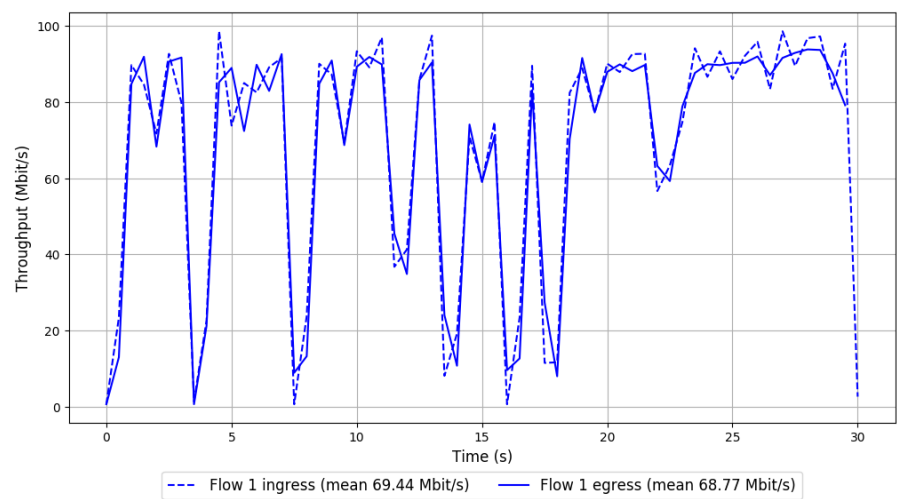


Run 1: Statistics of Verus

Start at: 2018-03-20 11:00:59
End at: 2018-03-20 11:01:29
Local clock offset: -6.222 ms
Remote clock offset: -17.441 ms

Below is generated by plot.py at 2018-03-20 18:24:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 68.77 Mbit/s
95th percentile per-packet one-way delay: 90.587 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 68.77 Mbit/s
95th percentile per-packet one-way delay: 90.587 ms
Loss rate: 1.42%

Run 1: Report of Verus — Data Link

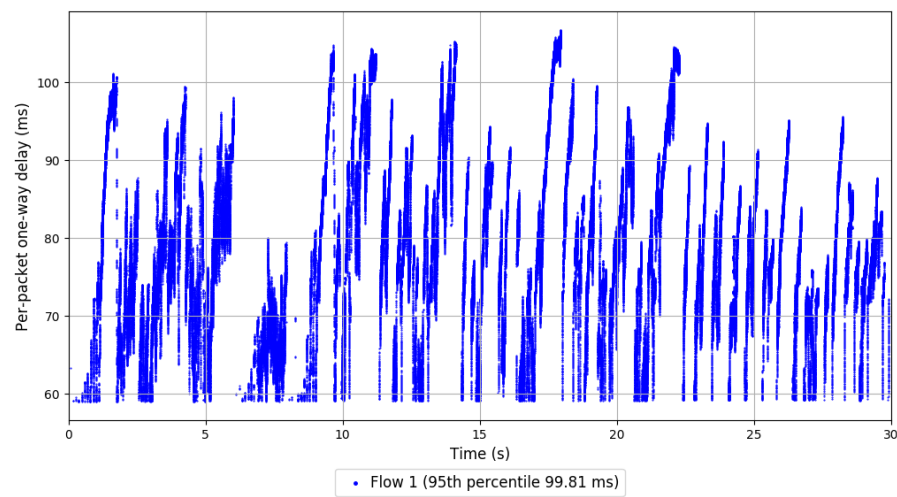
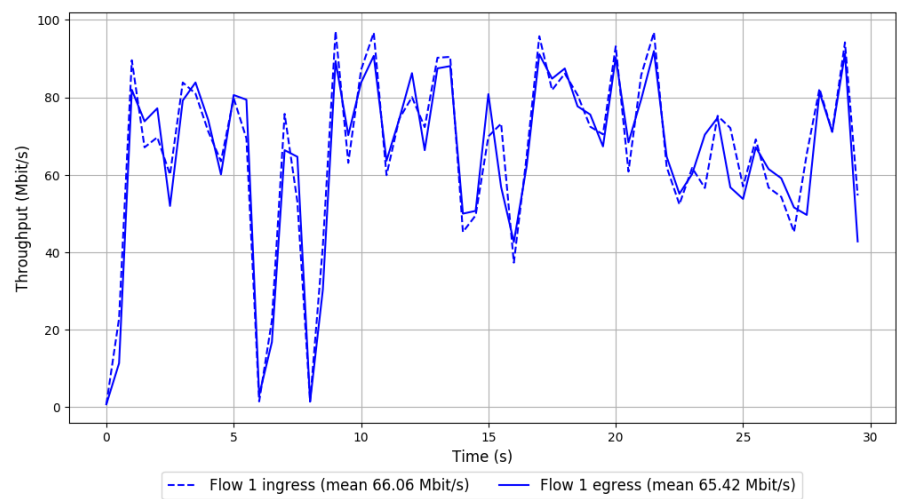


Run 2: Statistics of Verus

Start at: 2018-03-20 11:22:42
End at: 2018-03-20 11:23:12
Local clock offset: -14.15 ms
Remote clock offset: -24.481 ms

Below is generated by plot.py at 2018-03-20 18:24:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 65.42 Mbit/s
95th percentile per-packet one-way delay: 99.808 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 65.42 Mbit/s
95th percentile per-packet one-way delay: 99.808 ms
Loss rate: 1.37%

Run 2: Report of Verus — Data Link

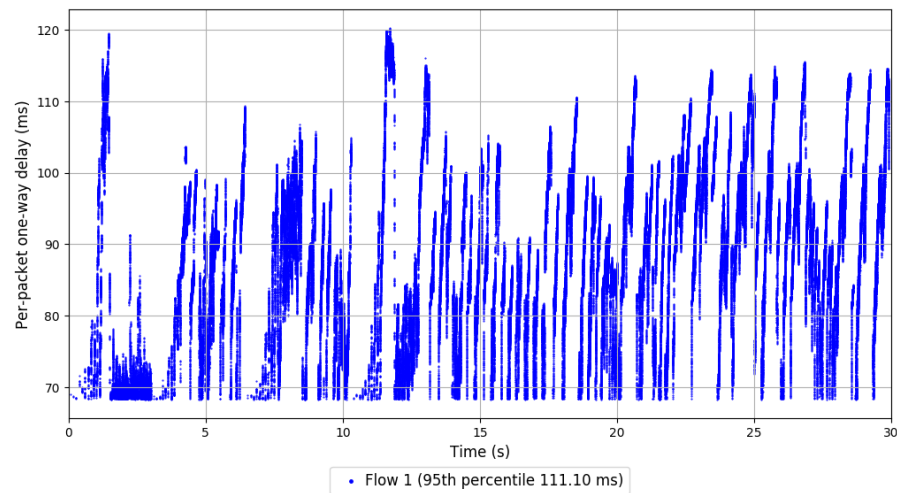
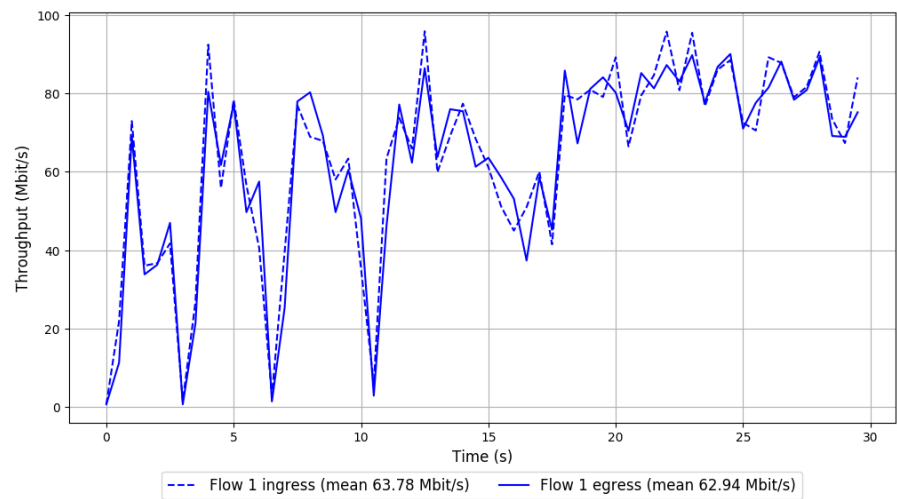


Run 3: Statistics of Verus

Start at: 2018-03-20 11:45:12
End at: 2018-03-20 11:45:42
Local clock offset: 1.151 ms
Remote clock offset: -31.709 ms

Below is generated by plot.py at 2018-03-20 18:24:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 62.94 Mbit/s
95th percentile per-packet one-way delay: 111.098 ms
Loss rate: 1.70%
-- Flow 1:
Average throughput: 62.94 Mbit/s
95th percentile per-packet one-way delay: 111.098 ms
Loss rate: 1.70%

Run 3: Report of Verus — Data Link

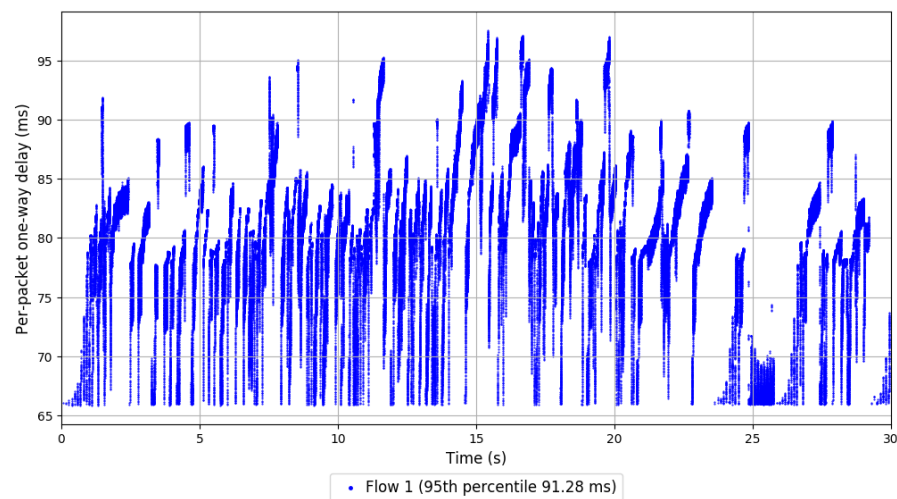
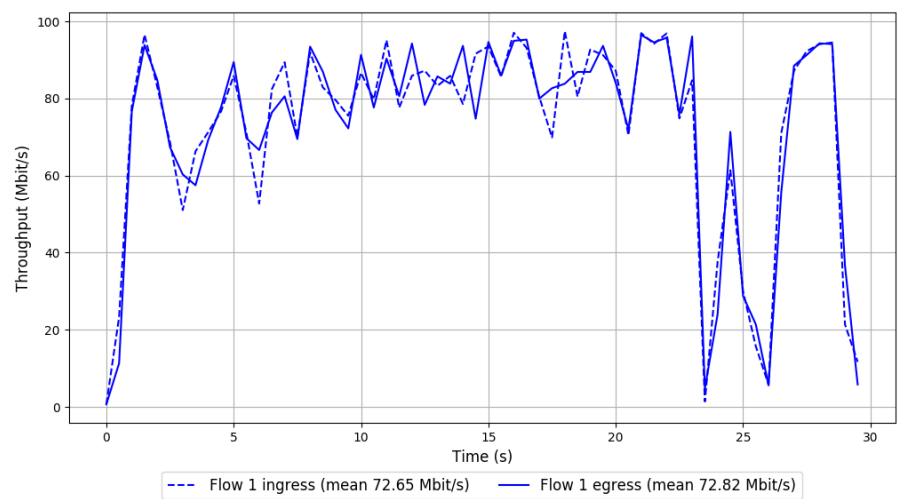


Run 4: Statistics of Verus

Start at: 2018-03-20 12:07:26
End at: 2018-03-20 12:07:56
Local clock offset: 0.561 ms
Remote clock offset: -27.646 ms

Below is generated by plot.py at 2018-03-20 18:25:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 72.82 Mbit/s
95th percentile per-packet one-way delay: 91.285 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 72.82 Mbit/s
95th percentile per-packet one-way delay: 91.285 ms
Loss rate: 0.14%

Run 4: Report of Verus — Data Link

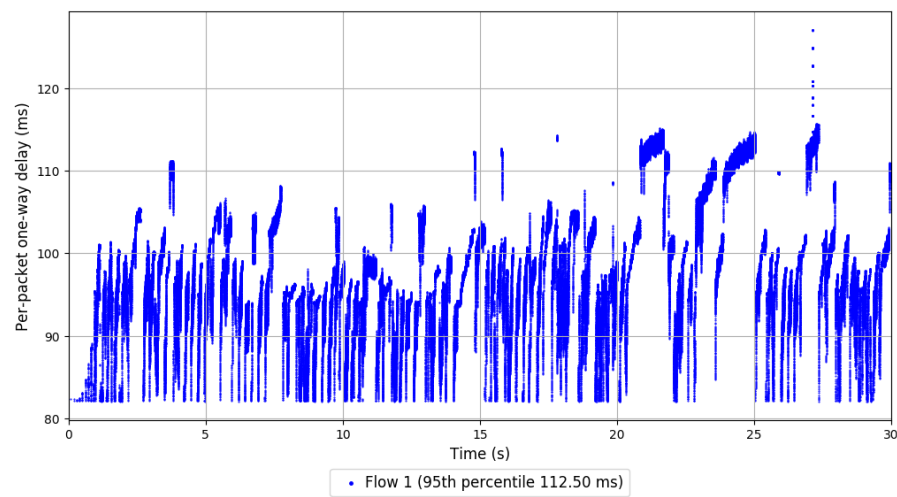
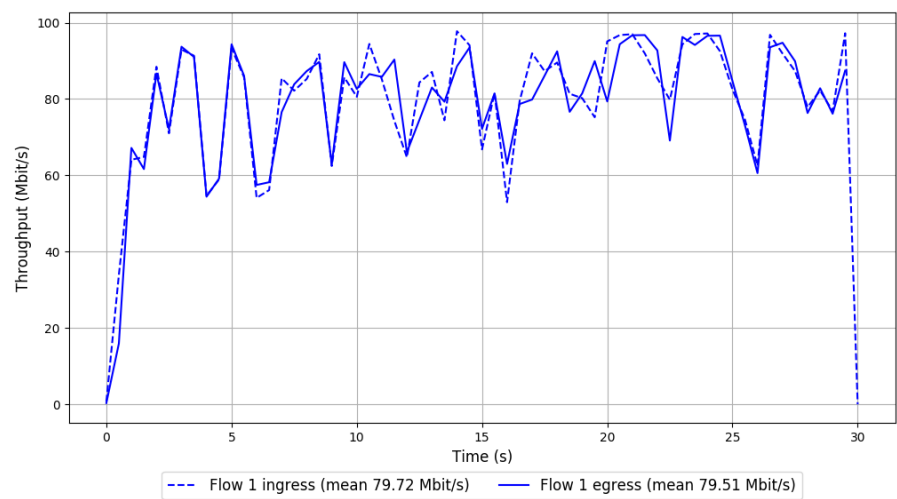


Run 5: Statistics of Verus

Start at: 2018-03-20 12:29:14
End at: 2018-03-20 12:29:44
Local clock offset: -1.423 ms
Remote clock offset: -50.923 ms

Below is generated by plot.py at 2018-03-20 18:25:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 79.51 Mbit/s
95th percentile per-packet one-way delay: 112.498 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 79.51 Mbit/s
95th percentile per-packet one-way delay: 112.498 ms
Loss rate: 0.64%

Run 5: Report of Verus — Data Link

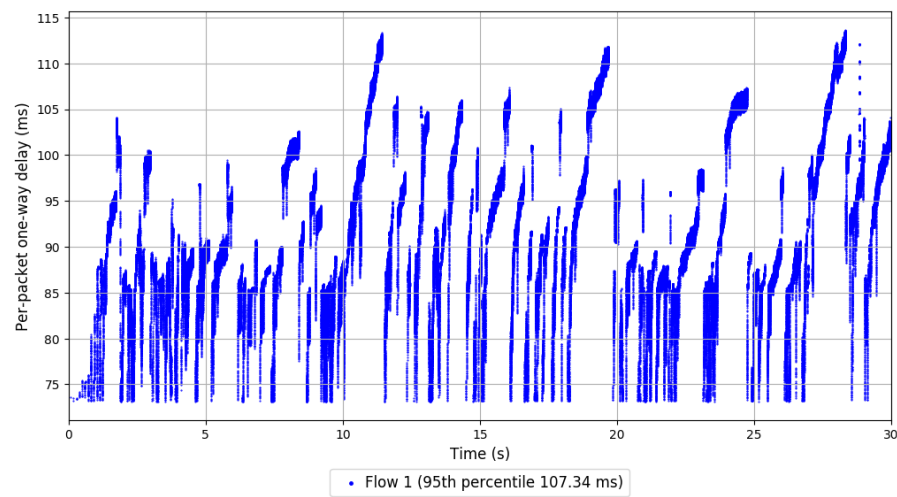
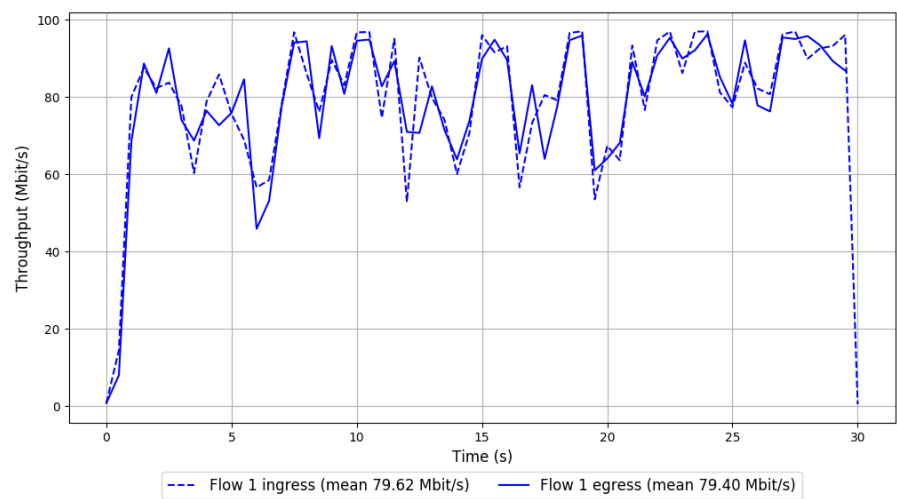


Run 6: Statistics of Verus

Start at: 2018-03-20 12:52:06
End at: 2018-03-20 12:52:36
Local clock offset: 4.187 ms
Remote clock offset: -39.833 ms

Below is generated by plot.py at 2018-03-20 18:25:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 79.40 Mbit/s
95th percentile per-packet one-way delay: 107.345 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 79.40 Mbit/s
95th percentile per-packet one-way delay: 107.345 ms
Loss rate: 0.68%

Run 6: Report of Verus — Data Link

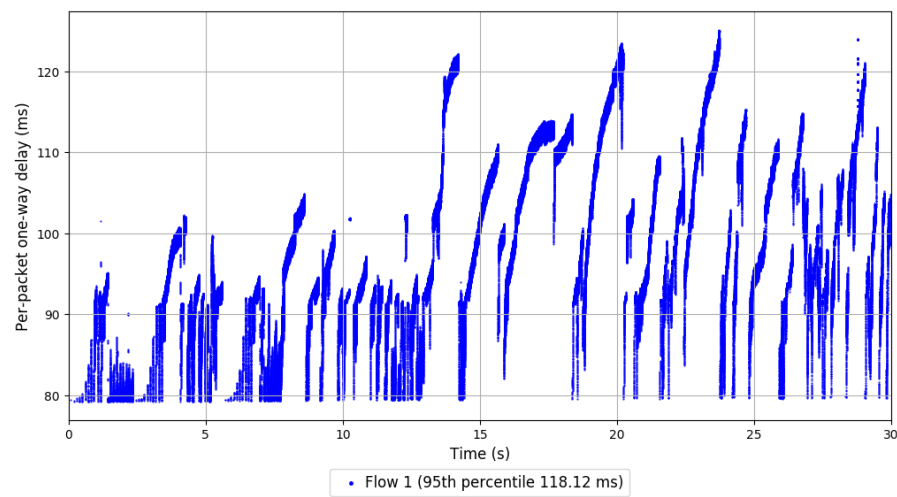
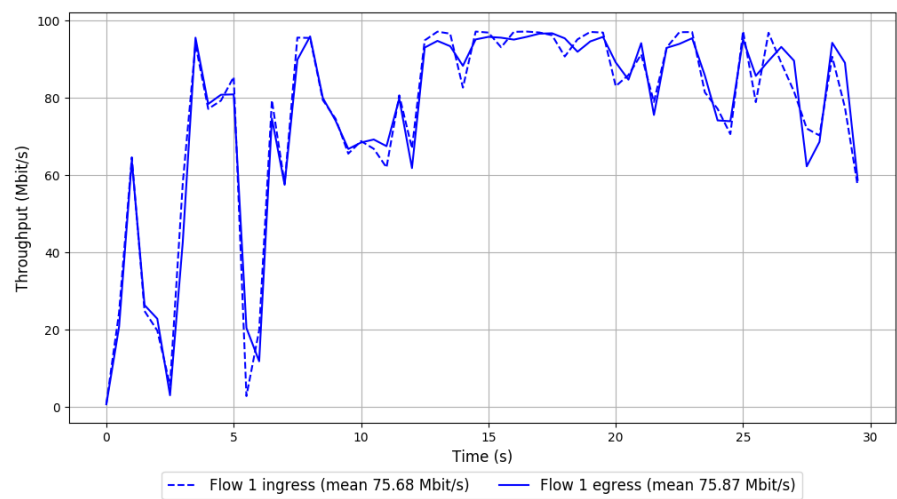


Run 7: Statistics of Verus

Start at: 2018-03-20 13:14:00
End at: 2018-03-20 13:14:30
Local clock offset: -2.135 ms
Remote clock offset: -43.215 ms

Below is generated by plot.py at 2018-03-20 18:25:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 75.87 Mbit/s
95th percentile per-packet one-way delay: 118.116 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 75.87 Mbit/s
95th percentile per-packet one-way delay: 118.116 ms
Loss rate: 0.09%

Run 7: Report of Verus — Data Link

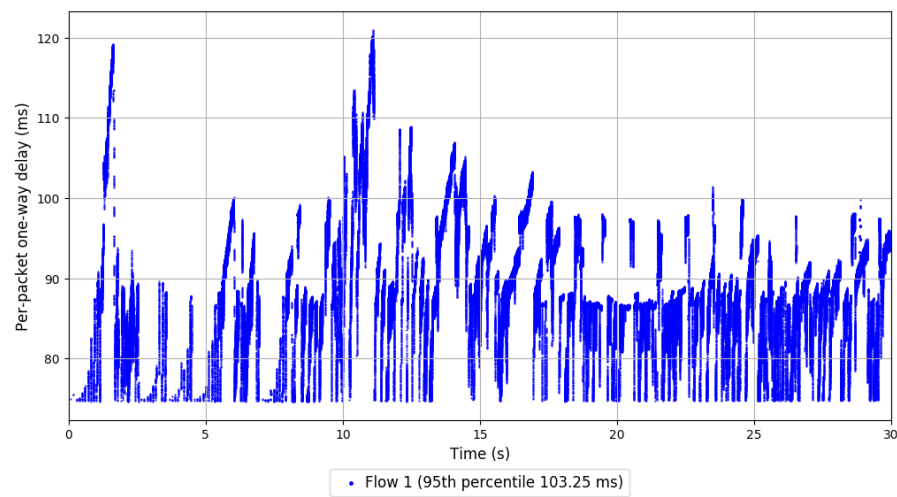
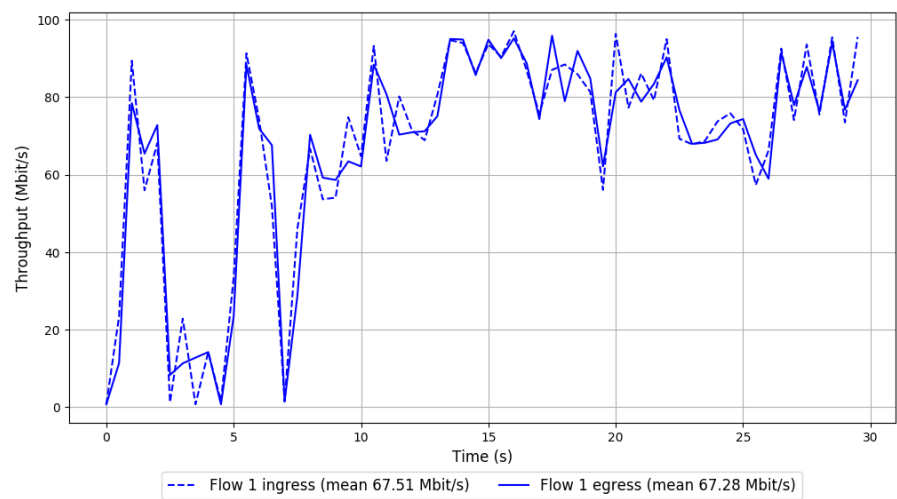


Run 8: Statistics of Verus

Start at: 2018-03-20 13:36:09
End at: 2018-03-20 13:36:39
Local clock offset: -12.9 ms
Remote clock offset: -39.998 ms

Below is generated by plot.py at 2018-03-20 18:25:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 67.28 Mbit/s
95th percentile per-packet one-way delay: 103.252 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 67.28 Mbit/s
95th percentile per-packet one-way delay: 103.252 ms
Loss rate: 0.73%

Run 8: Report of Verus — Data Link

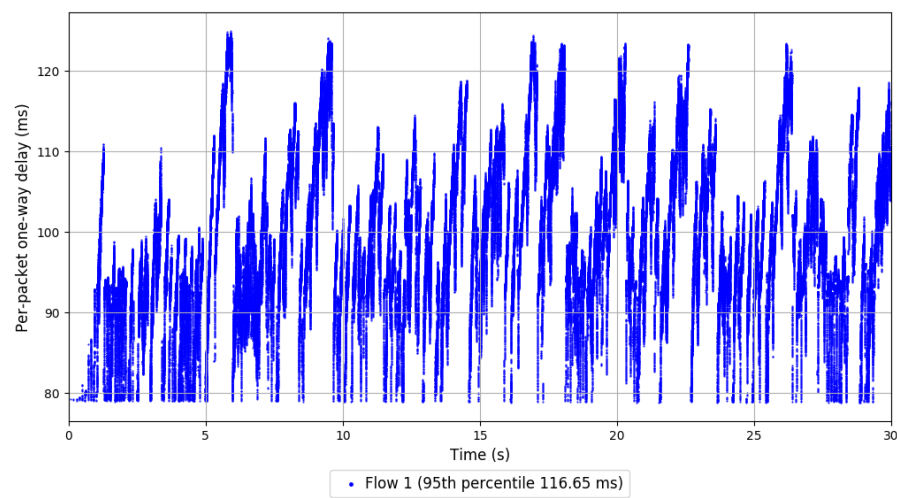
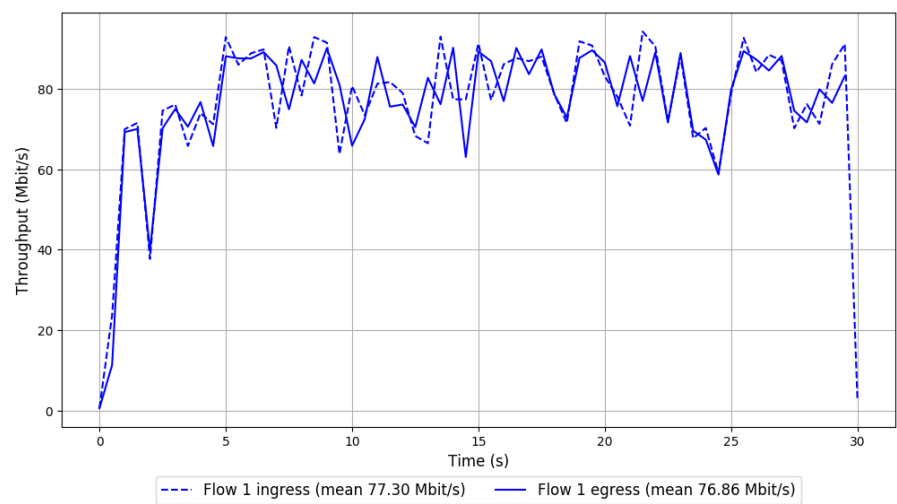


Run 9: Statistics of Verus

Start at: 2018-03-20 13:58:45
End at: 2018-03-20 13:59:15
Local clock offset: 4.181 ms
Remote clock offset: -44.895 ms

Below is generated by plot.py at 2018-03-20 18:25:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.86 Mbit/s
95th percentile per-packet one-way delay: 116.654 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 76.86 Mbit/s
95th percentile per-packet one-way delay: 116.654 ms
Loss rate: 0.99%

Run 9: Report of Verus — Data Link

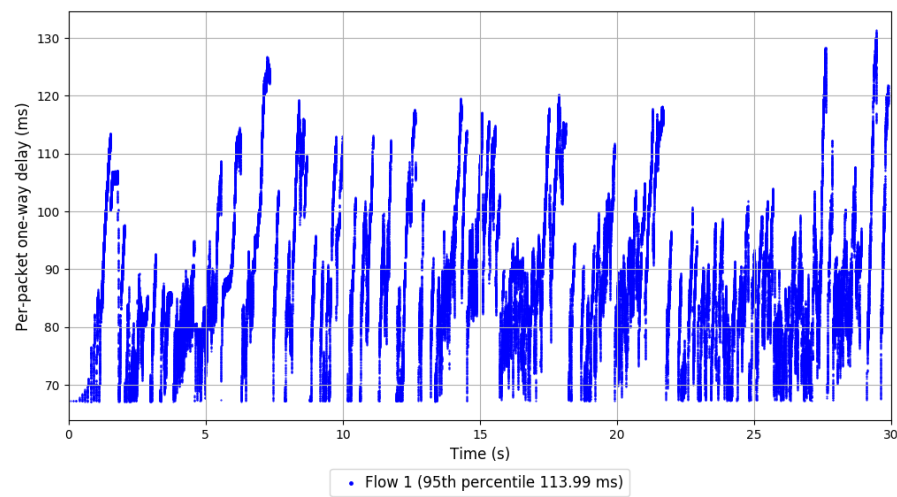
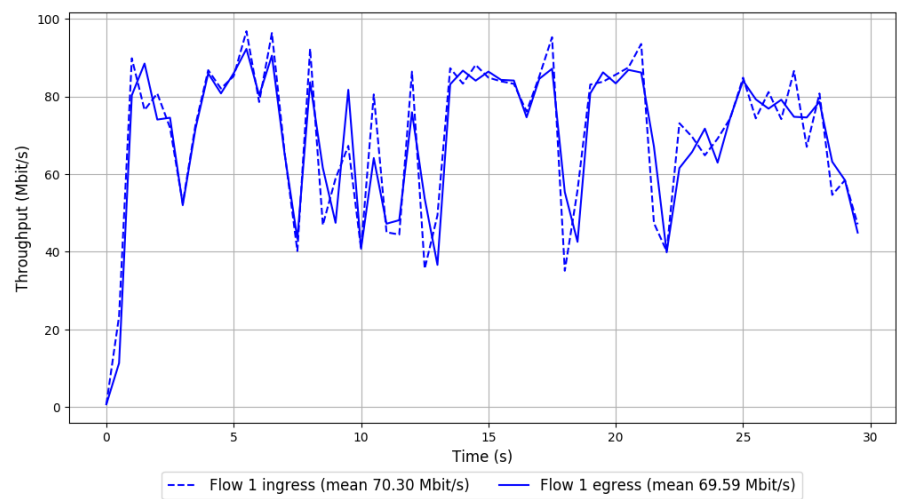


Run 10: Statistics of Verus

Start at: 2018-03-20 14:20:33
End at: 2018-03-20 14:21:03
Local clock offset: 7.531 ms
Remote clock offset: -32.62 ms

Below is generated by plot.py at 2018-03-20 18:25:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 69.59 Mbit/s
95th percentile per-packet one-way delay: 113.989 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 69.59 Mbit/s
95th percentile per-packet one-way delay: 113.989 ms
Loss rate: 0.83%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-03-20 10:45:17

End at: 2018-03-20 10:45:47

Local clock offset: 3.8 ms

Remote clock offset: -15.064 ms

Below is generated by plot.py at 2018-03-20 18:26:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.51 Mbit/s

95th percentile per-packet one-way delay: 46.519 ms

Loss rate: 0.35%

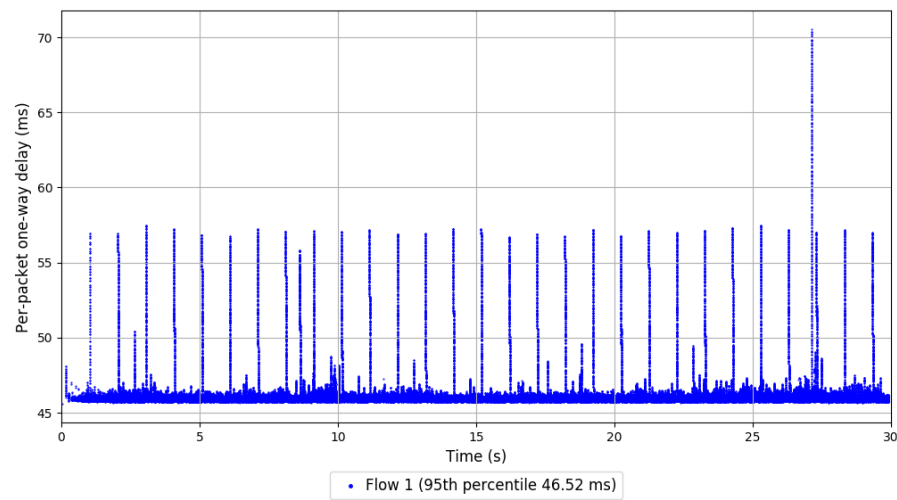
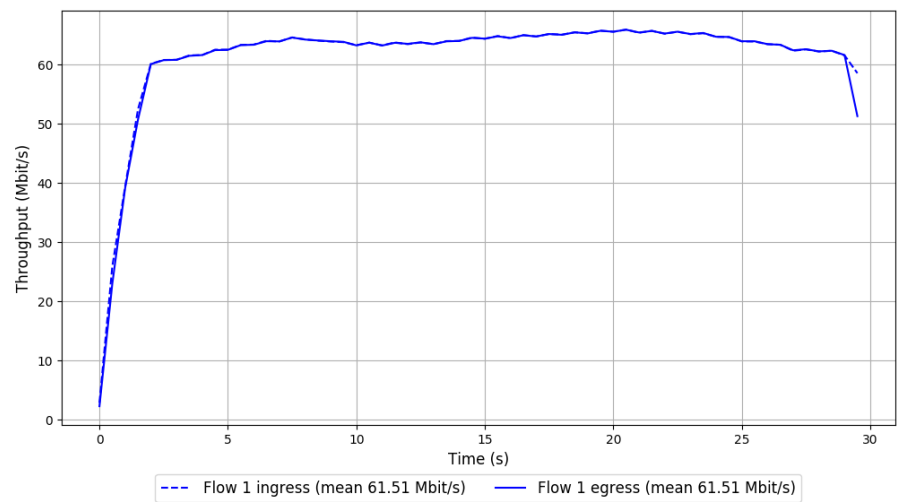
-- Flow 1:

Average throughput: 61.51 Mbit/s

95th percentile per-packet one-way delay: 46.519 ms

Loss rate: 0.35%

Run 1: Report of Copa — Data Link

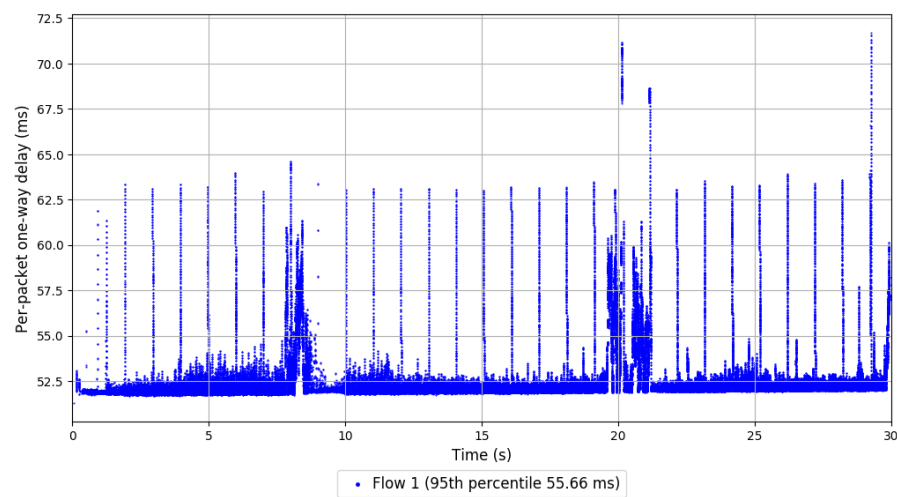
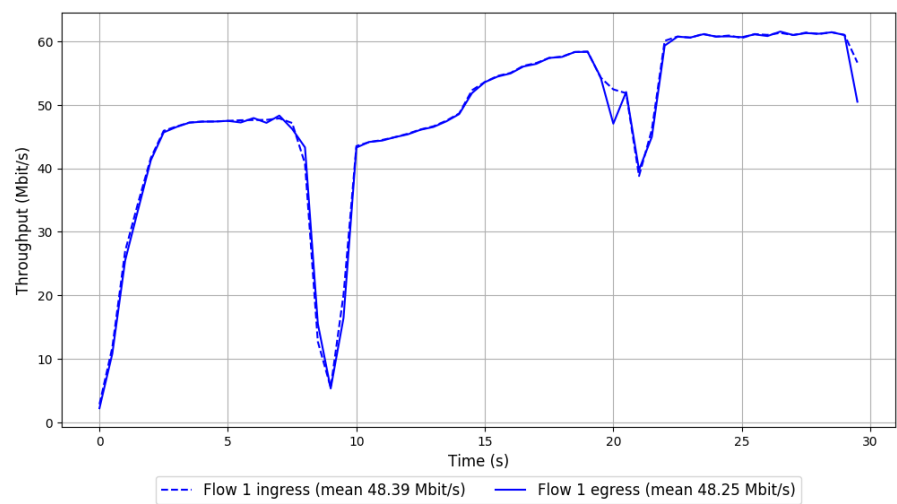


Run 2: Statistics of Copa

Start at: 2018-03-20 11:07:04
End at: 2018-03-20 11:07:34
Local clock offset: -9.9 ms
Remote clock offset: -19.724 ms

Below is generated by plot.py at 2018-03-20 18:26:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 48.25 Mbit/s
95th percentile per-packet one-way delay: 55.665 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 48.25 Mbit/s
95th percentile per-packet one-way delay: 55.665 ms
Loss rate: 0.64%

Run 2: Report of Copa — Data Link

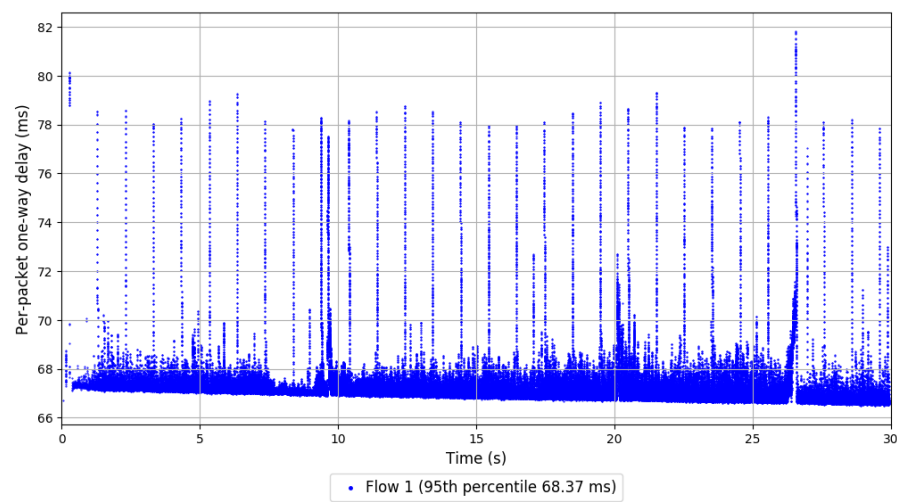
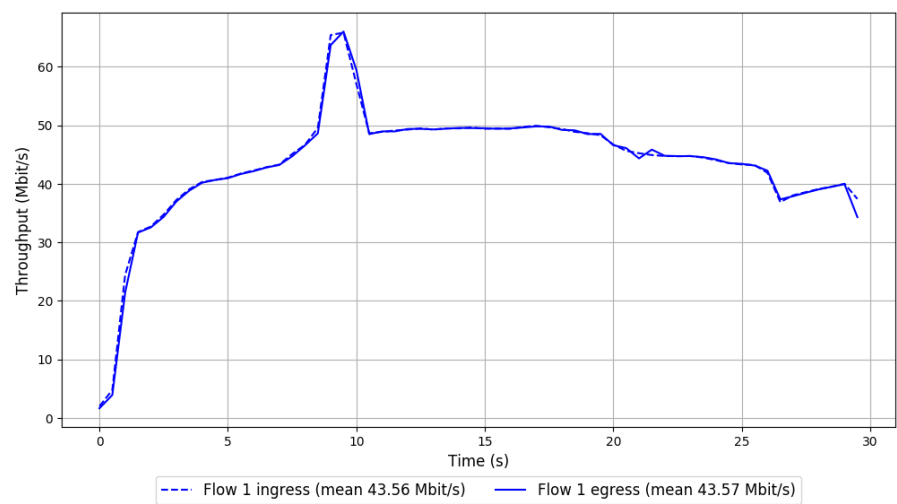


Run 3: Statistics of Copa

Start at: 2018-03-20 11:28:48
End at: 2018-03-20 11:29:18
Local clock offset: -9.991 ms
Remote clock offset: -34.342 ms

Below is generated by plot.py at 2018-03-20 18:26:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 43.57 Mbit/s
95th percentile per-packet one-way delay: 68.373 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 43.57 Mbit/s
95th percentile per-packet one-way delay: 68.373 ms
Loss rate: 0.32%

Run 3: Report of Copa — Data Link

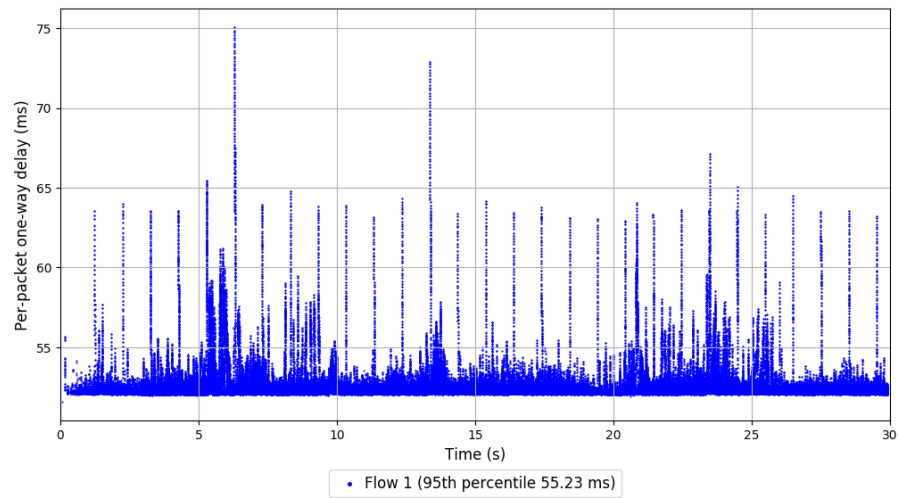
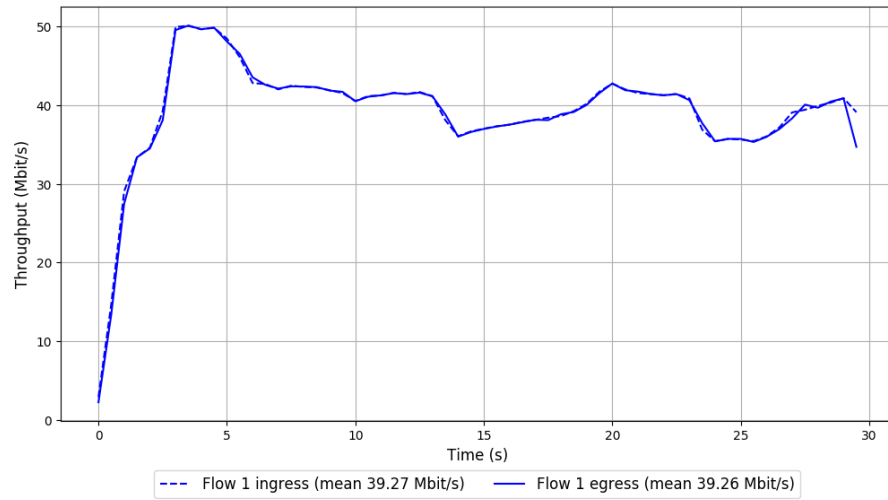


Run 4: Statistics of Copa

Start at: 2018-03-20 11:51:17
End at: 2018-03-20 11:51:47
Local clock offset: 1.764 ms
Remote clock offset: -14.906 ms

Below is generated by plot.py at 2018-03-20 18:26:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 39.26 Mbit/s
95th percentile per-packet one-way delay: 55.234 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 39.26 Mbit/s
95th percentile per-packet one-way delay: 55.234 ms
Loss rate: 0.37%

Run 4: Report of Copa — Data Link

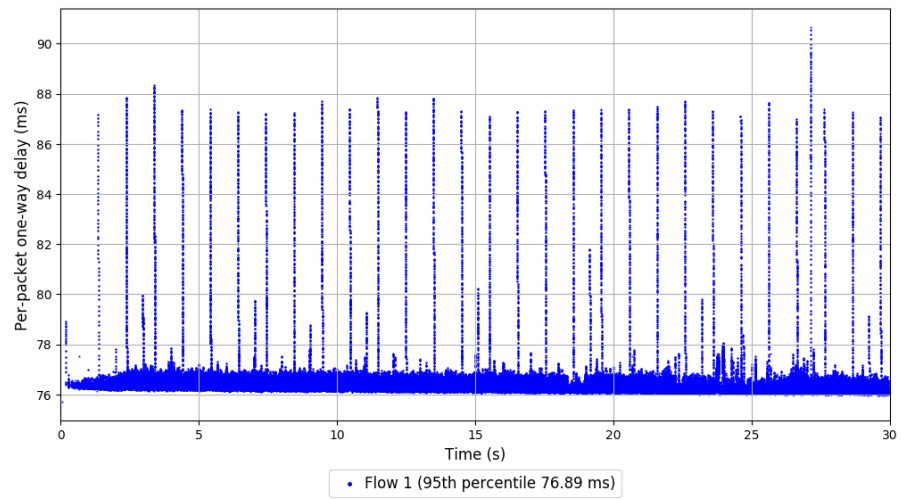
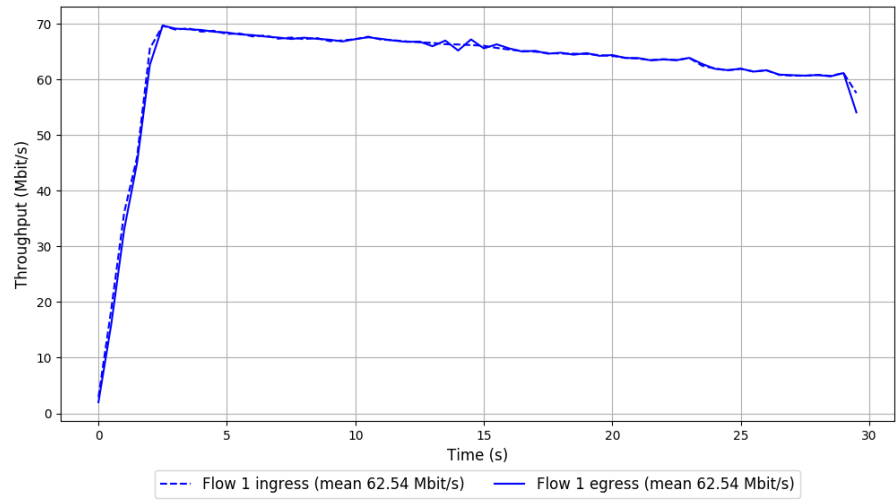


Run 5: Statistics of Copa

Start at: 2018-03-20 12:13:33
End at: 2018-03-20 12:14:03
Local clock offset: -0.348 ms
Remote clock offset: -41.371 ms

Below is generated by plot.py at 2018-03-20 18:27:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 62.54 Mbit/s
95th percentile per-packet one-way delay: 76.895 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 62.54 Mbit/s
95th percentile per-packet one-way delay: 76.895 ms
Loss rate: 0.34%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

/home/ubuntu/pantheon_data/2018-03-20T10-43-China-to-AWS-Korea-10-runs/copa_stats_run6.log c

Run 6: Report of Copa — Data Link

Figure is missing

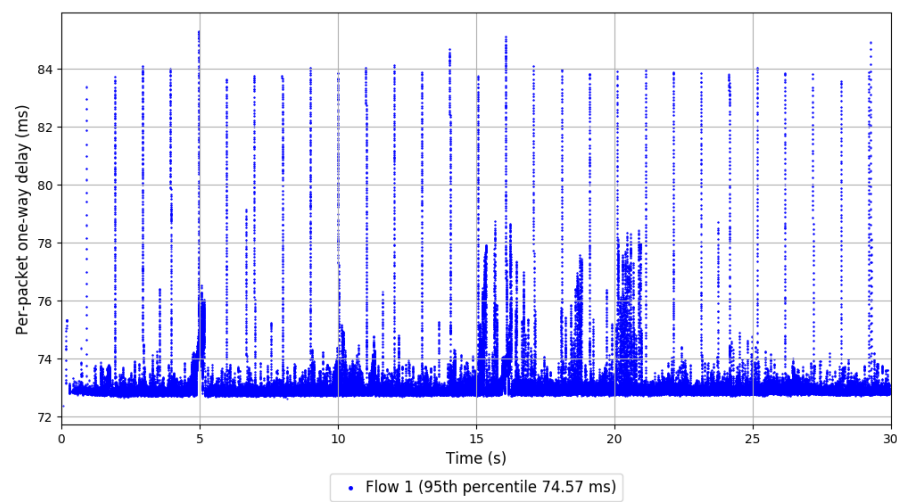
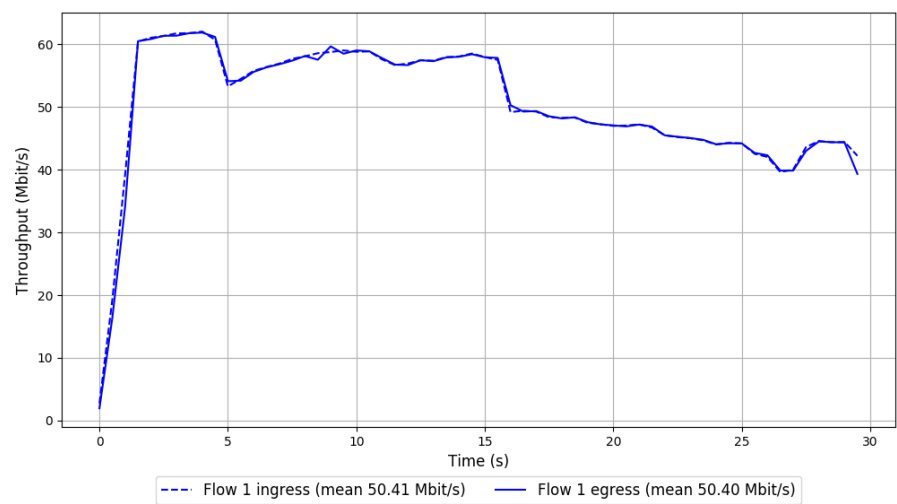
Figure is missing

Run 7: Statistics of Copa

Start at: 2018-03-20 12:58:15
End at: 2018-03-20 12:58:45
Local clock offset: 4.621 ms
Remote clock offset: -38.823 ms

Below is generated by plot.py at 2018-03-20 18:27:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.40 Mbit/s
95th percentile per-packet one-way delay: 74.566 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 50.40 Mbit/s
95th percentile per-packet one-way delay: 74.566 ms
Loss rate: 0.37%

Run 7: Report of Copa — Data Link

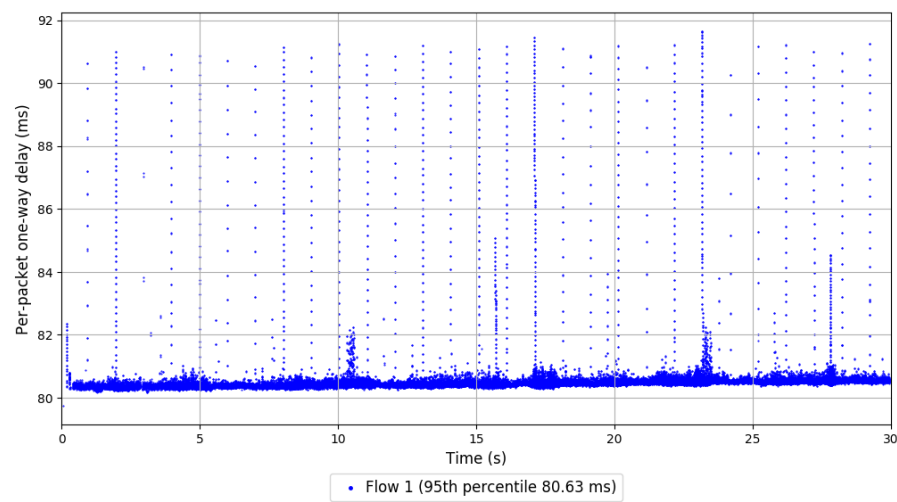
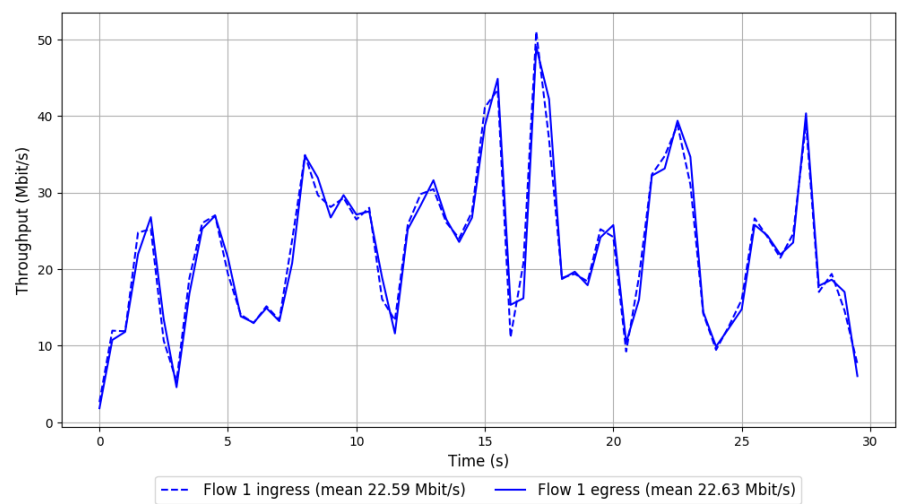


Run 8: Statistics of Copa

Start at: 2018-03-20 13:20:16
End at: 2018-03-20 13:20:46
Local clock offset: -6.784 ms
Remote clock offset: -44.834 ms

Below is generated by plot.py at 2018-03-20 18:27:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 22.63 Mbit/s
95th percentile per-packet one-way delay: 80.629 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 22.63 Mbit/s
95th percentile per-packet one-way delay: 80.629 ms
Loss rate: 0.17%

Run 8: Report of Copa — Data Link

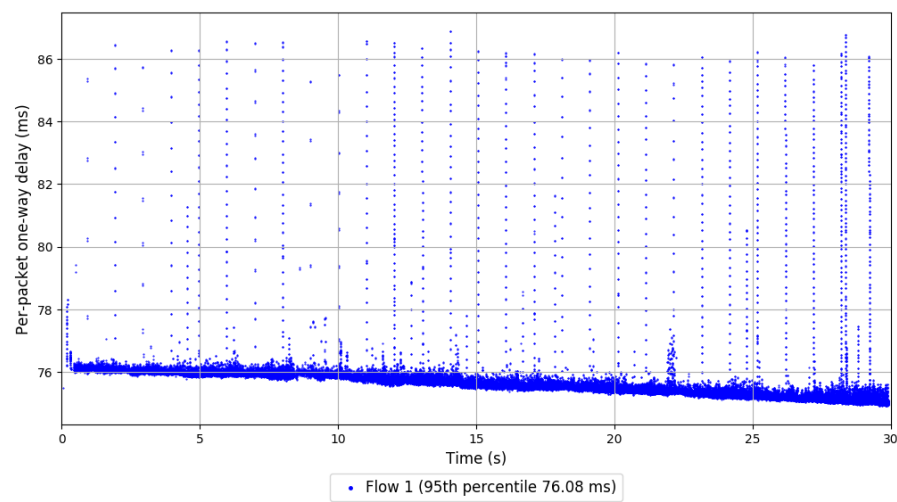
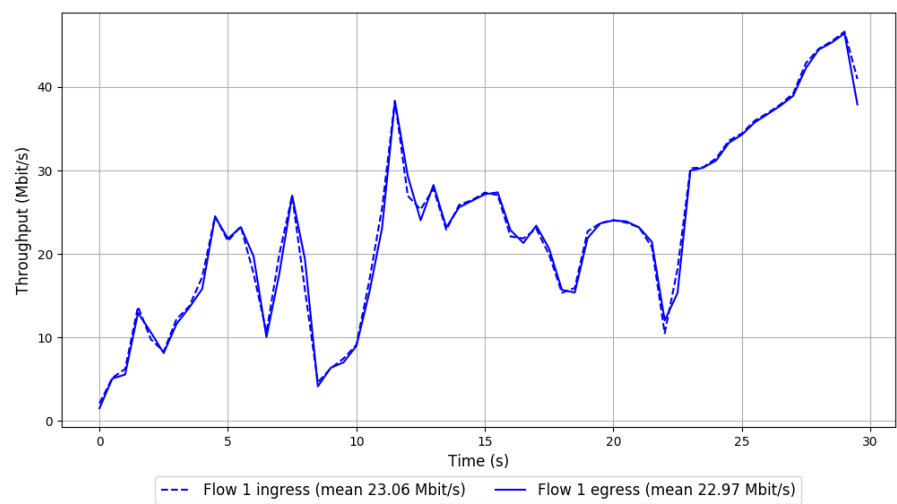


Run 9: Statistics of Copa

Start at: 2018-03-20 13:43:00
End at: 2018-03-20 13:43:30
Local clock offset: -14.266 ms
Remote clock offset: -42.93 ms

Below is generated by plot.py at 2018-03-20 18:27:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 22.97 Mbit/s
95th percentile per-packet one-way delay: 76.077 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 22.97 Mbit/s
95th percentile per-packet one-way delay: 76.077 ms
Loss rate: 0.74%

Run 9: Report of Copa — Data Link

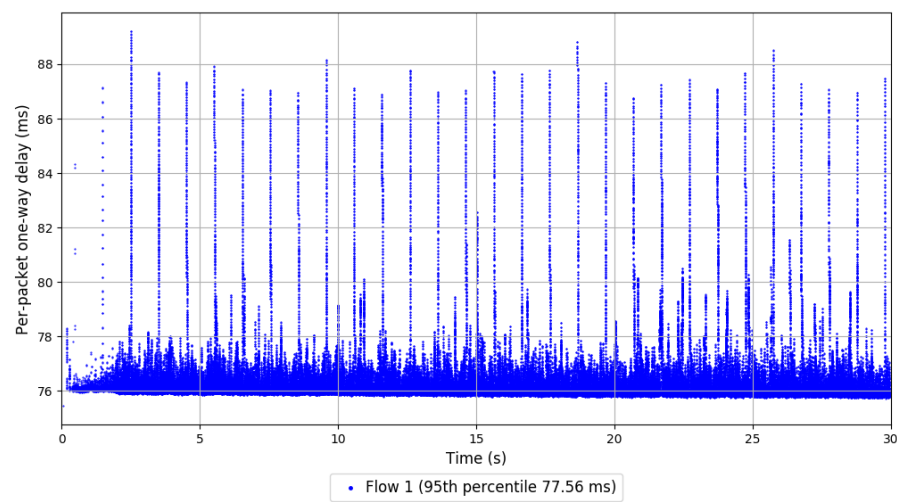
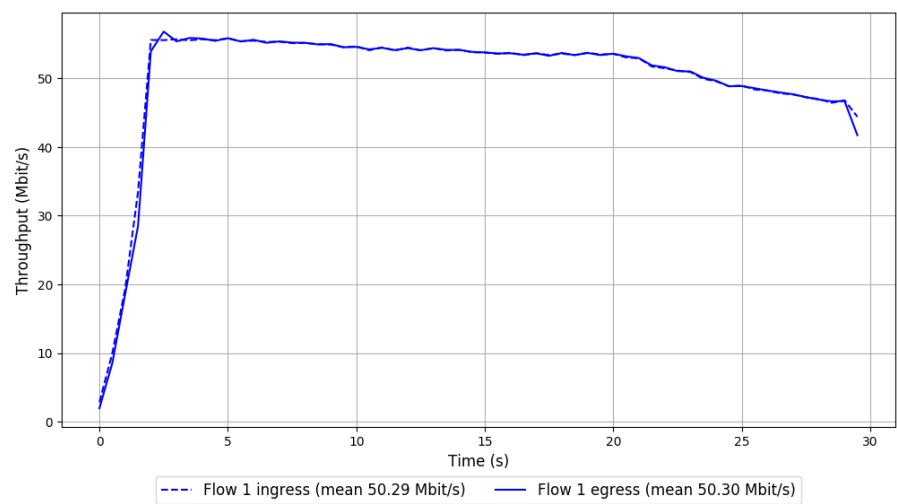


Run 10: Statistics of Copa

Start at: 2018-03-20 14:04:52
End at: 2018-03-20 14:05:22
Local clock offset: 6.689 ms
Remote clock offset: -41.847 ms

Below is generated by plot.py at 2018-03-20 18:27:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.30 Mbit/s
95th percentile per-packet one-way delay: 77.565 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 50.30 Mbit/s
95th percentile per-packet one-way delay: 77.565 ms
Loss rate: 0.33%

Run 10: Report of Copa — Data Link

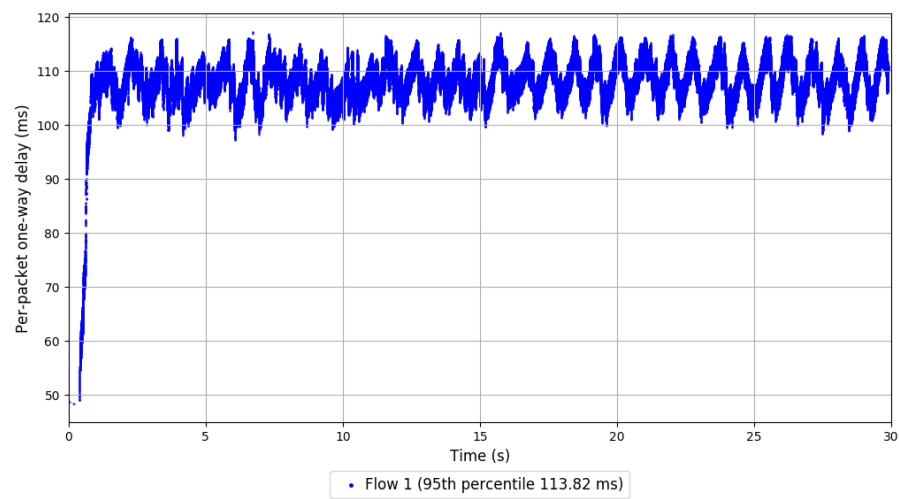
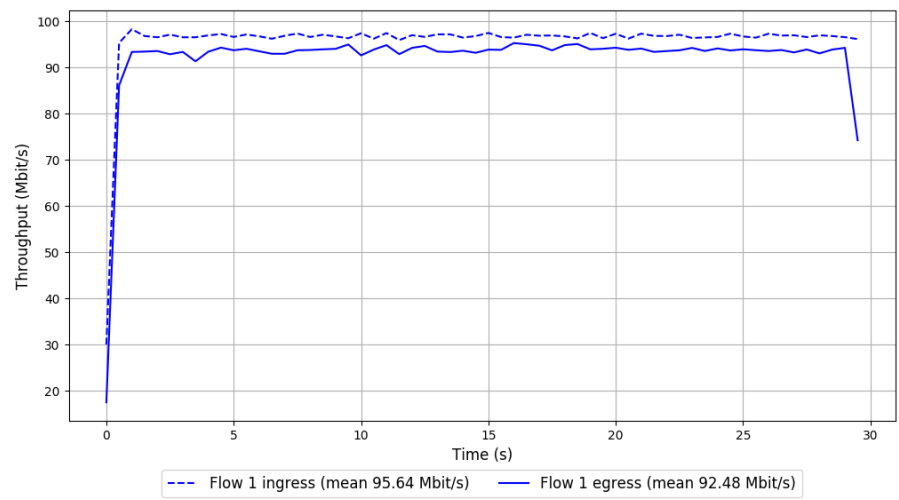


Run 1: Statistics of FillP

Start at: 2018-03-20 10:54:54
End at: 2018-03-20 10:55:24
Local clock offset: -1.083 ms
Remote clock offset: -18.219 ms

Below is generated by plot.py at 2018-03-20 18:28:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.48 Mbit/s
95th percentile per-packet one-way delay: 113.819 ms
Loss rate: 3.79%
-- Flow 1:
Average throughput: 92.48 Mbit/s
95th percentile per-packet one-way delay: 113.819 ms
Loss rate: 3.79%

Run 1: Report of FillP — Data Link

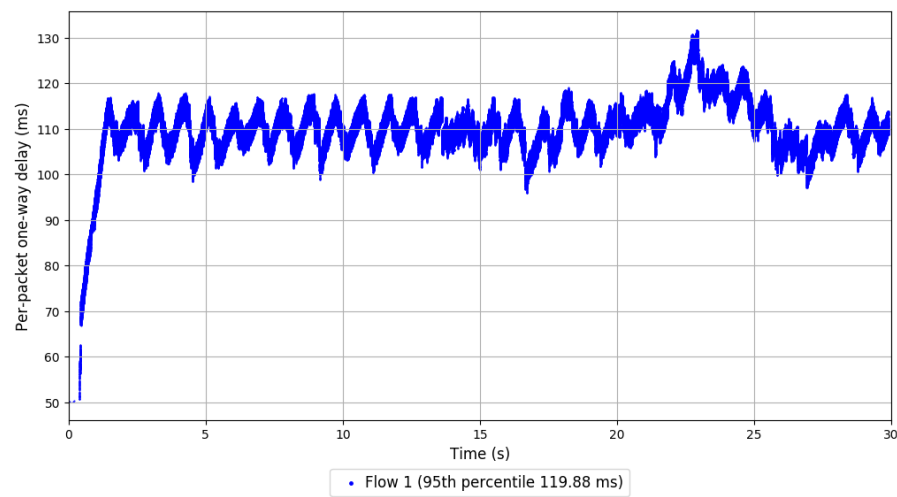
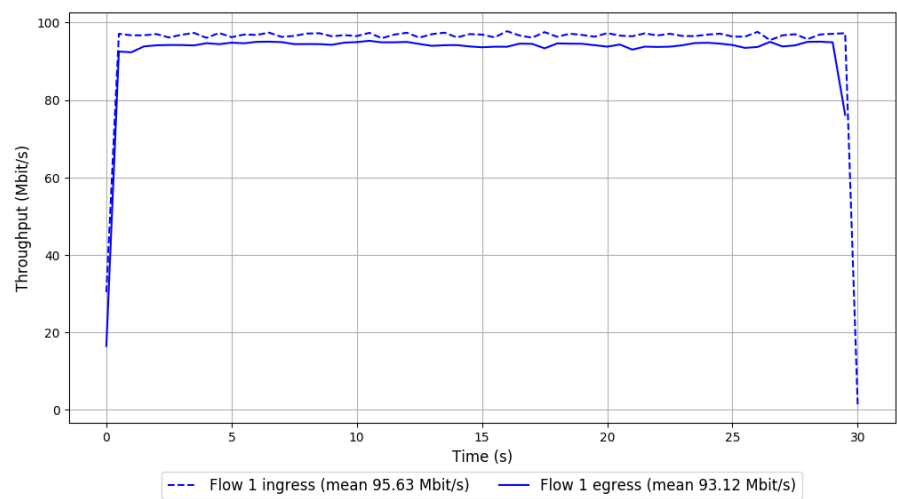


Run 2: Statistics of FillP

Start at: 2018-03-20 11:16:38
End at: 2018-03-20 11:17:08
Local clock offset: -12.825 ms
Remote clock offset: -16.879 ms

Below is generated by plot.py at 2018-03-20 18:28:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.12 Mbit/s
95th percentile per-packet one-way delay: 119.882 ms
Loss rate: 3.14%
-- Flow 1:
Average throughput: 93.12 Mbit/s
95th percentile per-packet one-way delay: 119.882 ms
Loss rate: 3.14%

Run 2: Report of FillP — Data Link

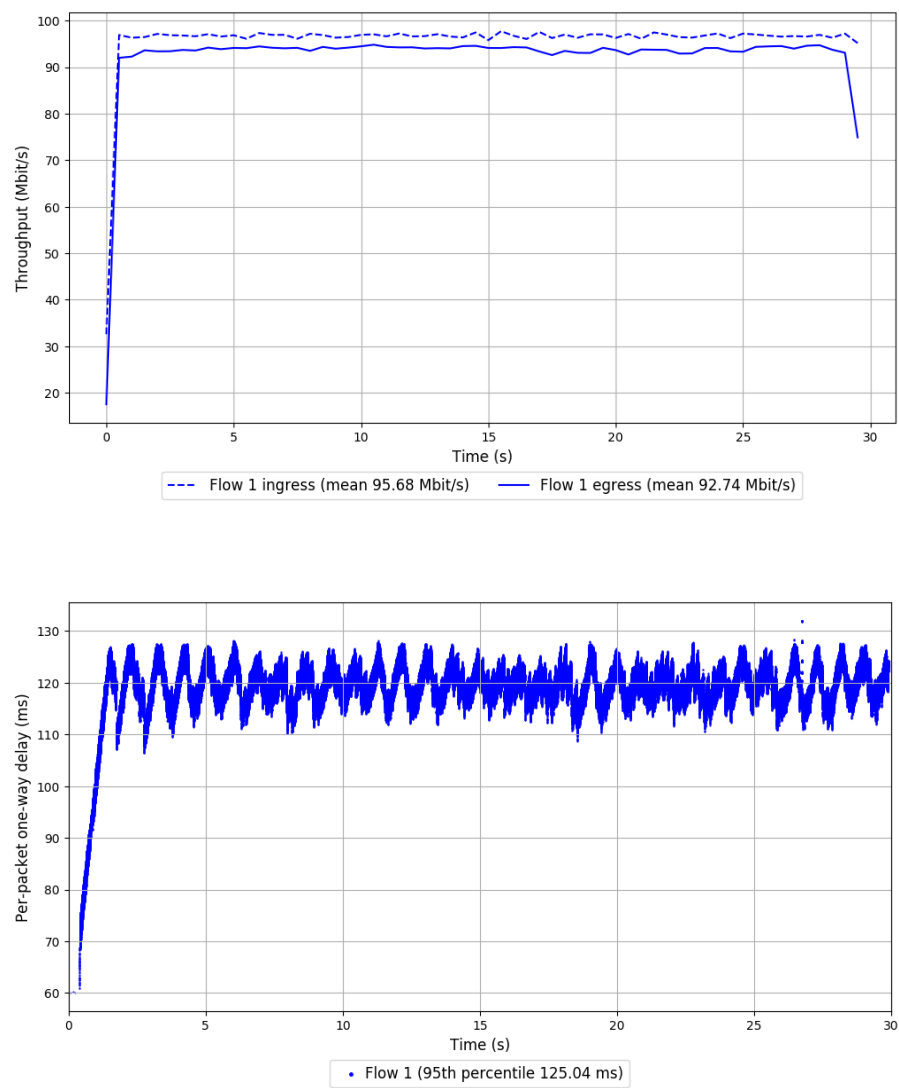


Run 3: Statistics of FillP

Start at: 2018-03-20 11:39:08
End at: 2018-03-20 11:39:38
Local clock offset: -0.872 ms
Remote clock offset: -25.503 ms

Below is generated by plot.py at 2018-03-20 18:28:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.74 Mbit/s
95th percentile per-packet one-way delay: 125.039 ms
Loss rate: 3.57%
-- Flow 1:
Average throughput: 92.74 Mbit/s
95th percentile per-packet one-way delay: 125.039 ms
Loss rate: 3.57%

Run 3: Report of FillP — Data Link

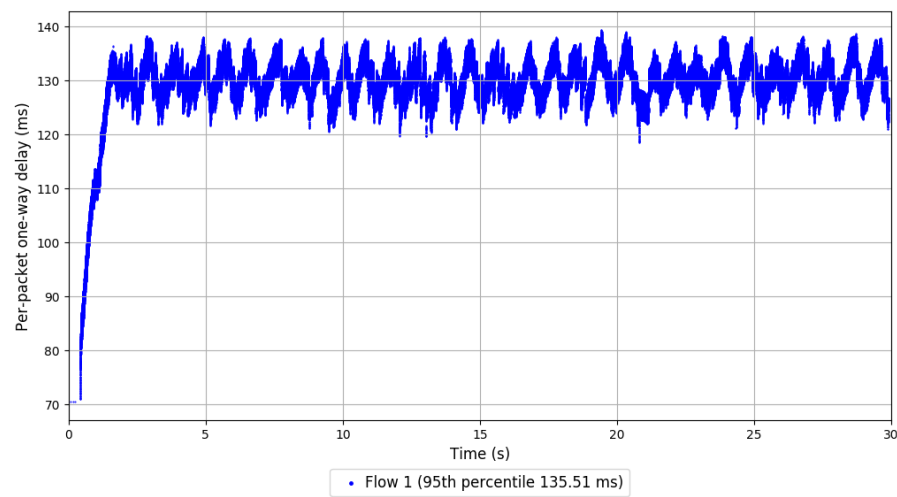
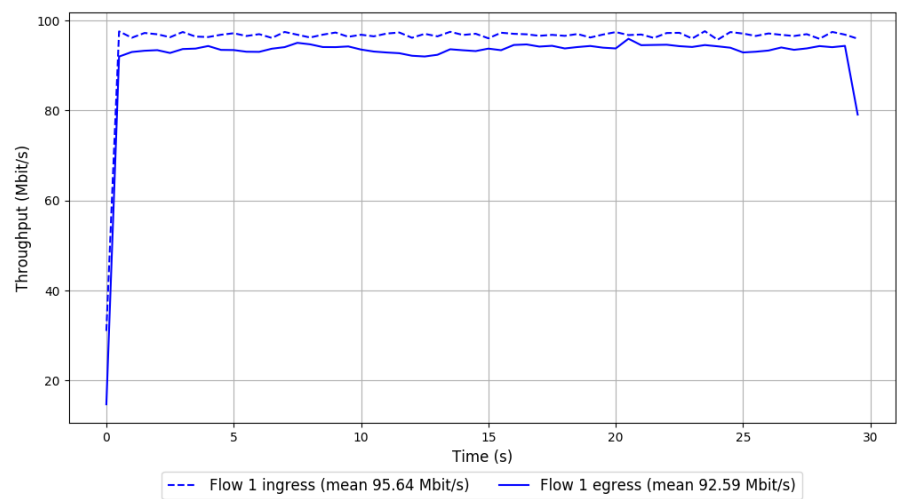


Run 4: Statistics of FillP

Start at: 2018-03-20 12:01:17
End at: 2018-03-20 12:01:47
Local clock offset: 1.692 ms
Remote clock offset: -33.085 ms

Below is generated by plot.py at 2018-03-20 18:28:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.59 Mbit/s
95th percentile per-packet one-way delay: 135.513 ms
Loss rate: 3.67%
-- Flow 1:
Average throughput: 92.59 Mbit/s
95th percentile per-packet one-way delay: 135.513 ms
Loss rate: 3.67%

Run 4: Report of FillP — Data Link

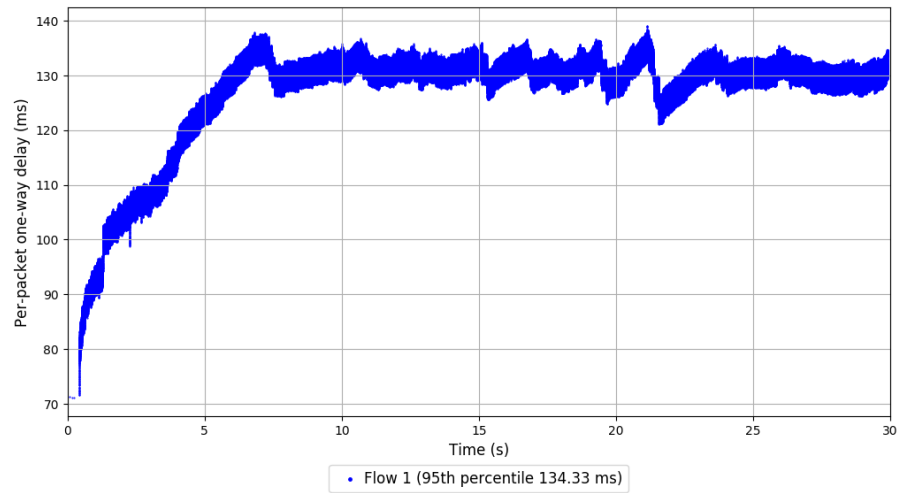
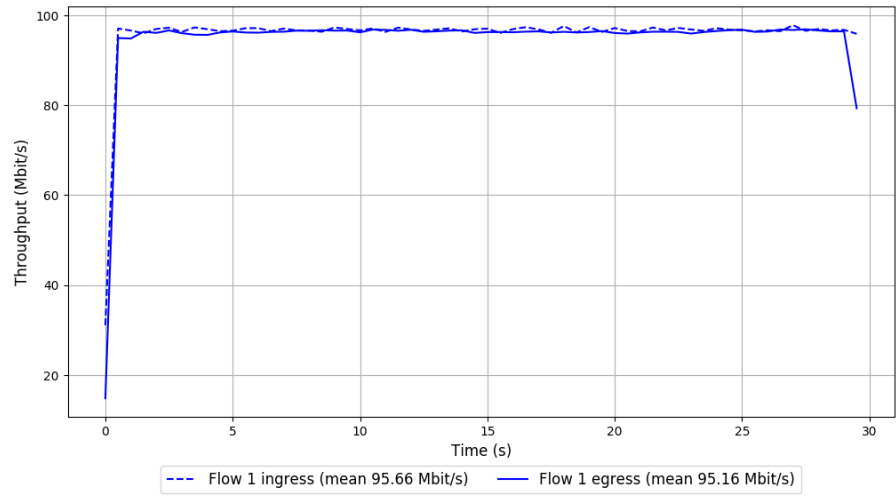


Run 5: Statistics of FillP

Start at: 2018-03-20 12:23:10
End at: 2018-03-20 12:23:40
Local clock offset: -1.719 ms
Remote clock offset: -39.728 ms

Below is generated by plot.py at 2018-03-20 18:28:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.16 Mbit/s
95th percentile per-packet one-way delay: 134.330 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 95.16 Mbit/s
95th percentile per-packet one-way delay: 134.330 ms
Loss rate: 1.04%

Run 5: Report of FillP — Data Link

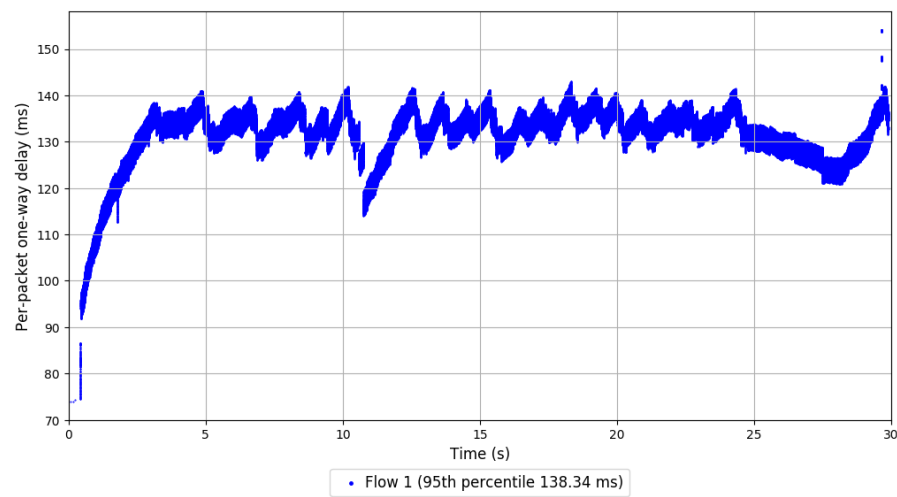
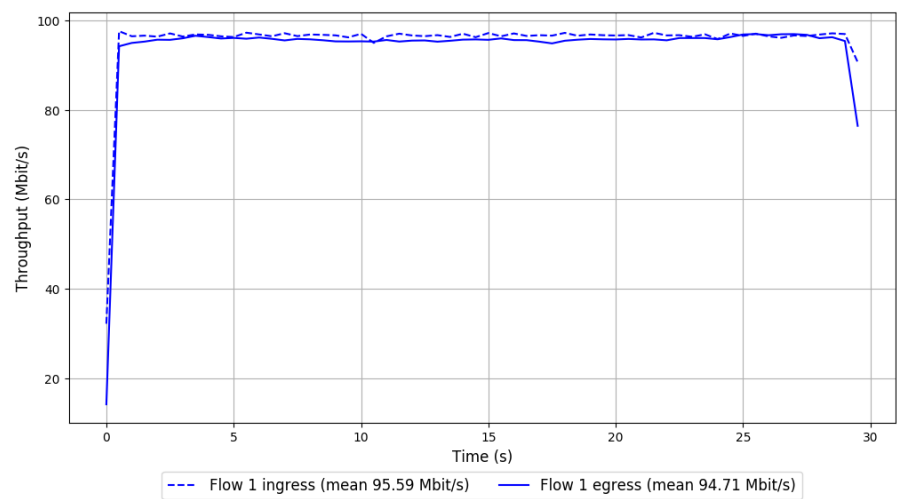


Run 6: Statistics of FillP

Start at: 2018-03-20 12:46:02
End at: 2018-03-20 12:46:32
Local clock offset: 2.721 ms
Remote clock offset: -43.89 ms

Below is generated by plot.py at 2018-03-20 18:28:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.71 Mbit/s
95th percentile per-packet one-way delay: 138.336 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 94.71 Mbit/s
95th percentile per-packet one-way delay: 138.336 ms
Loss rate: 1.45%

Run 6: Report of FillP — Data Link

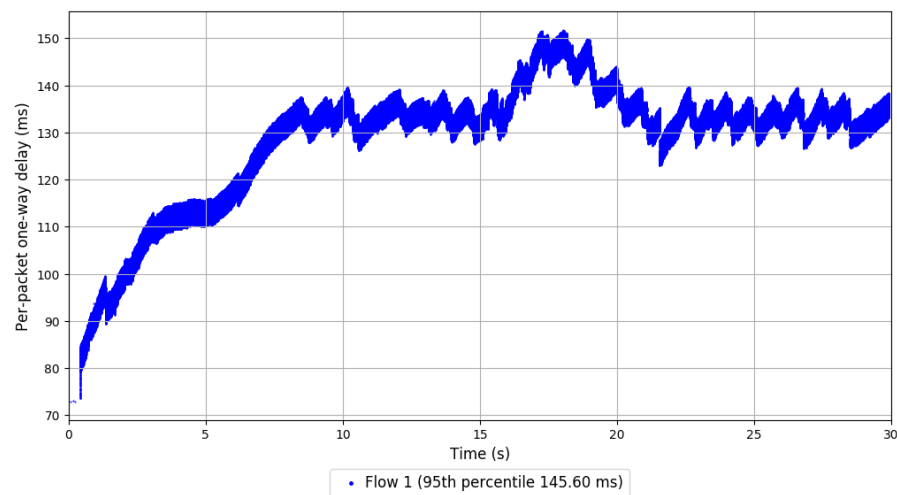
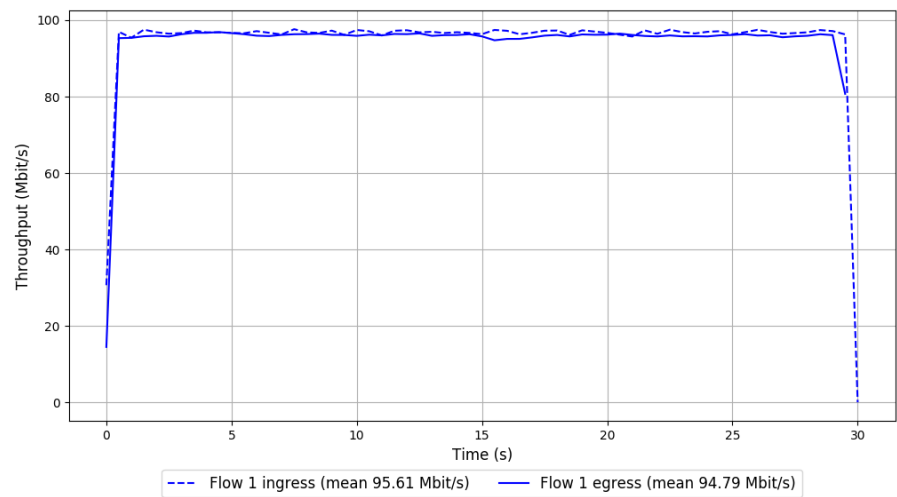


Run 7: Statistics of FillP

Start at: 2018-03-20 13:07:53
End at: 2018-03-20 13:08:23
Local clock offset: 5.076 ms
Remote clock offset: -37.745 ms

Below is generated by plot.py at 2018-03-20 18:28:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.79 Mbit/s
95th percentile per-packet one-way delay: 145.596 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 94.79 Mbit/s
95th percentile per-packet one-way delay: 145.596 ms
Loss rate: 1.37%

Run 7: Report of FillP — Data Link

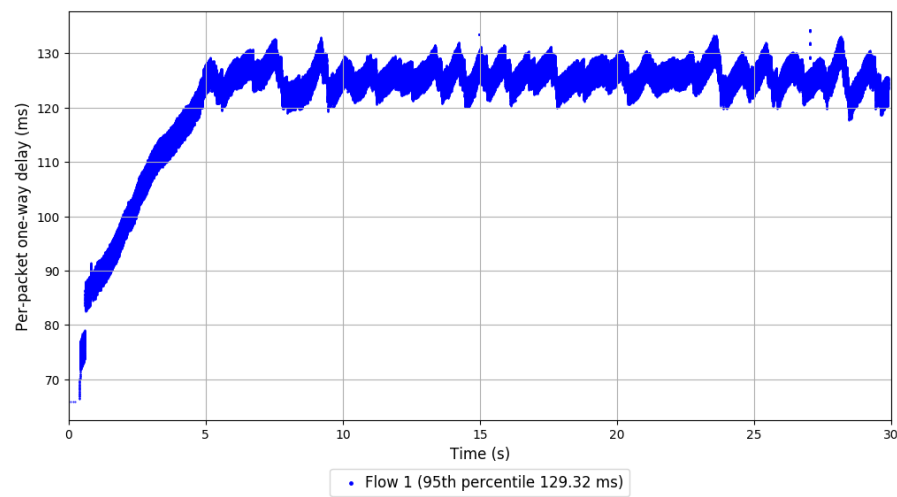
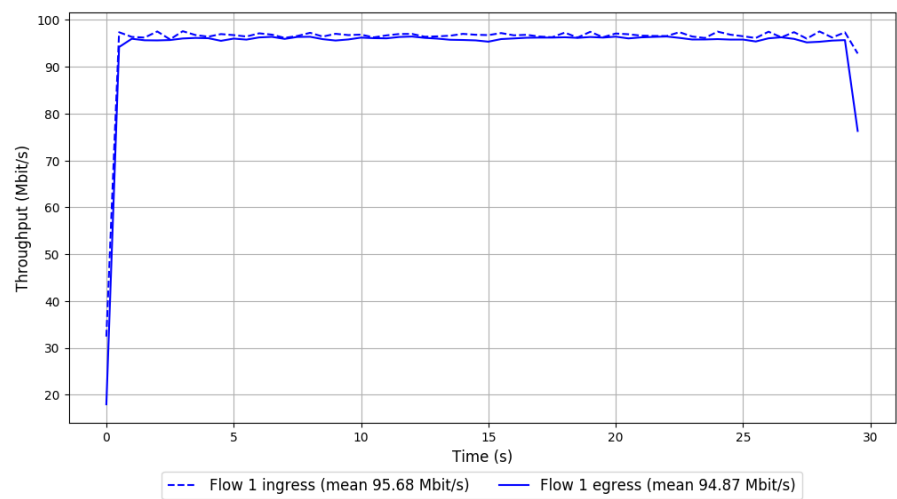


Run 8: Statistics of FillP

Start at: 2018-03-20 13:29:51
End at: 2018-03-20 13:30:21
Local clock offset: -10.893 ms
Remote clock offset: -32.032 ms

Below is generated by plot.py at 2018-03-20 18:29:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.87 Mbit/s
95th percentile per-packet one-way delay: 129.319 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 94.87 Mbit/s
95th percentile per-packet one-way delay: 129.319 ms
Loss rate: 1.36%

Run 8: Report of FillP — Data Link

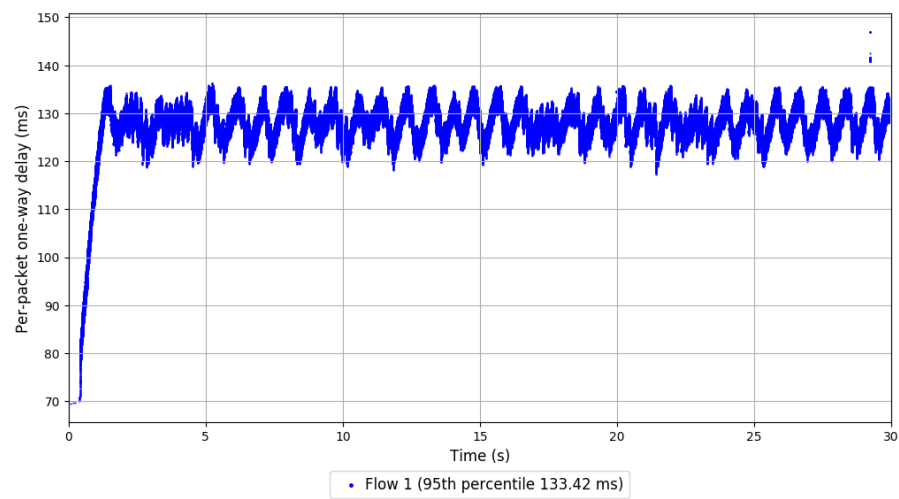
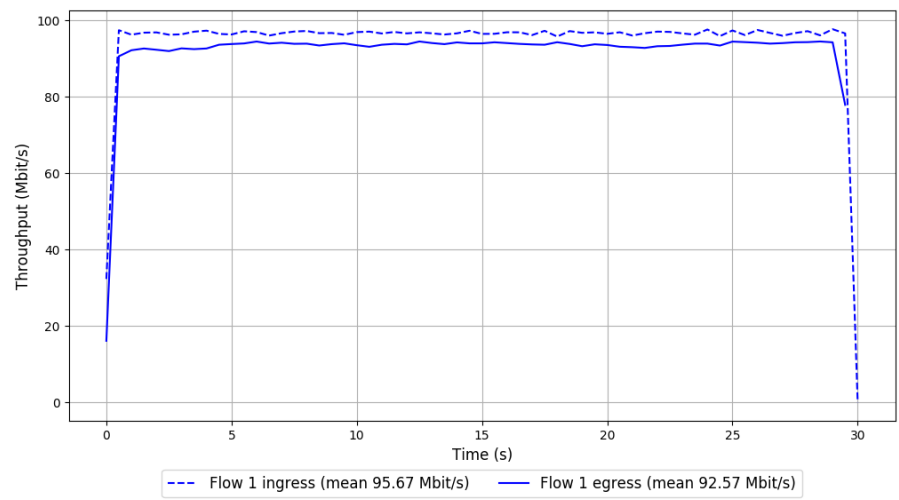


Run 9: Statistics of FillP

Start at: 2018-03-20 13:52:42
End at: 2018-03-20 13:53:12
Local clock offset: -2.467 ms
Remote clock offset: -38.659 ms

Below is generated by plot.py at 2018-03-20 18:29:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.57 Mbit/s
95th percentile per-packet one-way delay: 133.419 ms
Loss rate: 3.75%
-- Flow 1:
Average throughput: 92.57 Mbit/s
95th percentile per-packet one-way delay: 133.419 ms
Loss rate: 3.75%

Run 9: Report of FillP — Data Link

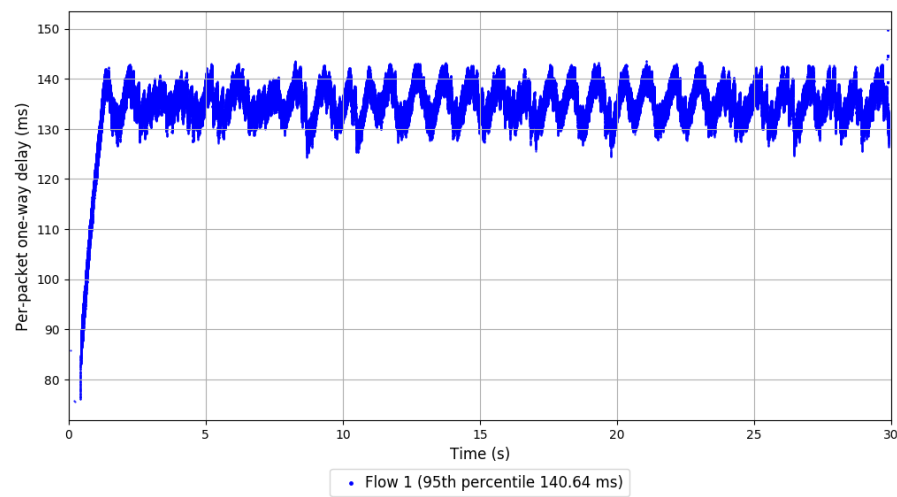
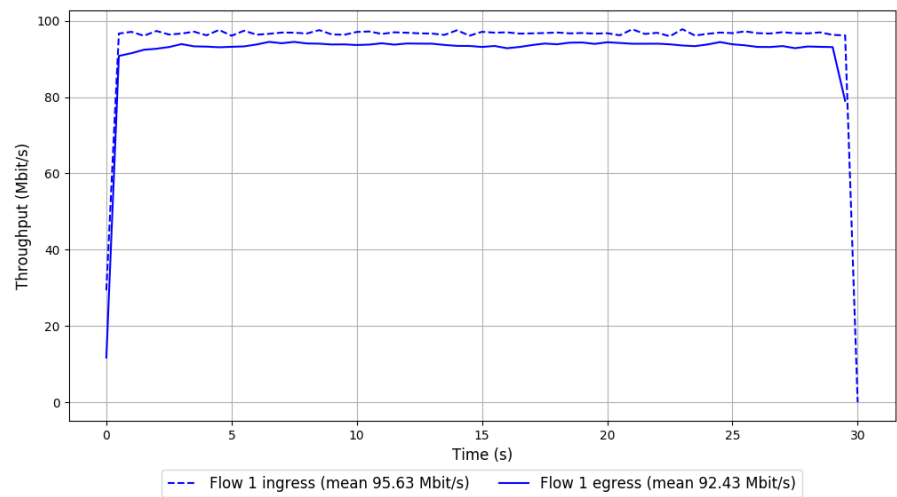


Run 10: Statistics of FillP

Start at: 2018-03-20 14:14:29
End at: 2018-03-20 14:14:59
Local clock offset: 9.24 ms
Remote clock offset: -42.104 ms

Below is generated by plot.py at 2018-03-20 18:29:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.43 Mbit/s
95th percentile per-packet one-way delay: 140.636 ms
Loss rate: 3.86%
-- Flow 1:
Average throughput: 92.43 Mbit/s
95th percentile per-packet one-way delay: 140.636 ms
Loss rate: 3.86%

Run 10: Report of FillP — Data Link

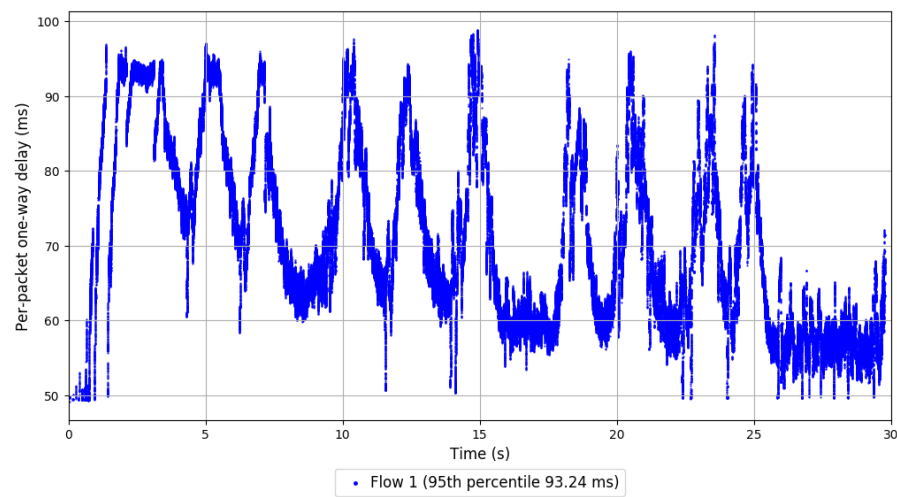
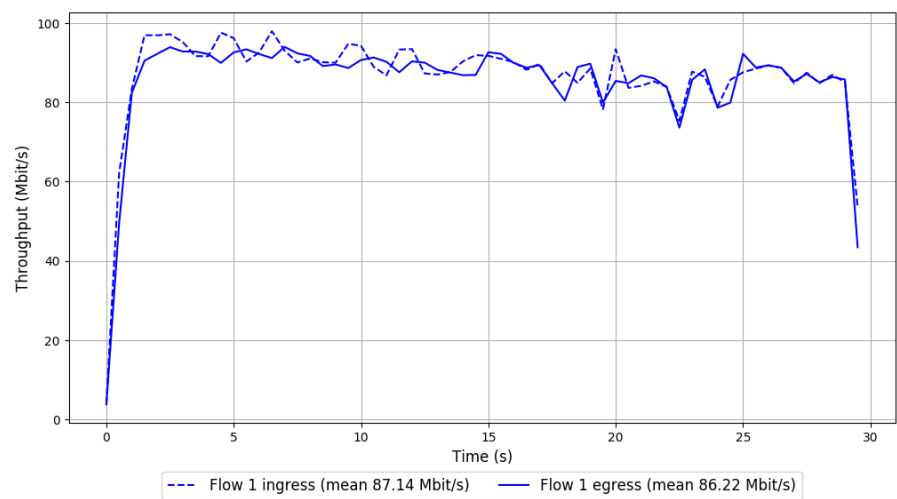


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-03-20 10:57:20
End at: 2018-03-20 10:57:50
Local clock offset: -3.154 ms
Remote clock offset: -19.098 ms

# Below is generated by plot.py at 2018-03-20 18:29:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.22 Mbit/s
95th percentile per-packet one-way delay: 93.242 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 86.22 Mbit/s
95th percentile per-packet one-way delay: 93.242 ms
Loss rate: 1.41%
```

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

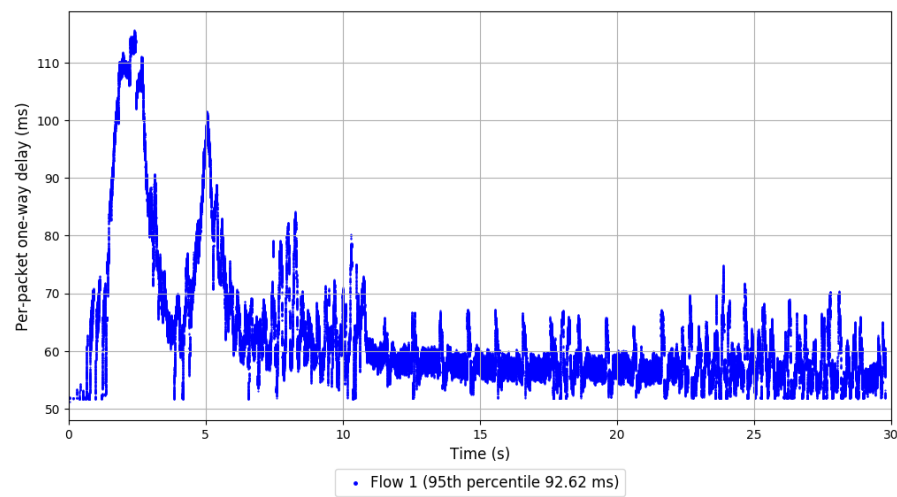
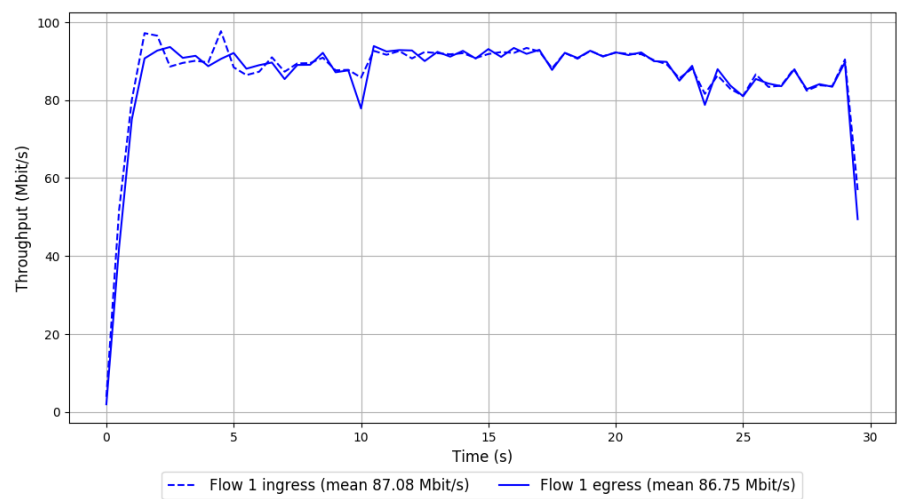


Run 2: Statistics of Indigo-1-32

Start at: 2018-03-20 11:19:01
End at: 2018-03-20 11:19:31
Local clock offset: -13.328 ms
Remote clock offset: -17.476 ms

Below is generated by plot.py at 2018-03-20 18:29:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.75 Mbit/s
95th percentile per-packet one-way delay: 92.616 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 86.75 Mbit/s
95th percentile per-packet one-way delay: 92.616 ms
Loss rate: 0.73%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-03-20 11:41:32

End at: 2018-03-20 11:42:02

Local clock offset: -0.046 ms

Remote clock offset: -28.654 ms

Below is generated by plot.py at 2018-03-20 18:29:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.11 Mbit/s

95th percentile per-packet one-way delay: 75.794 ms

Loss rate: 0.38%

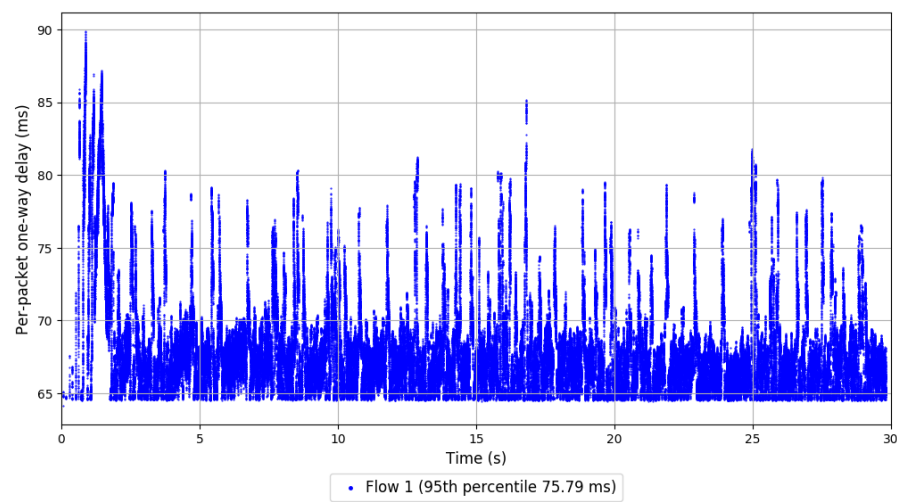
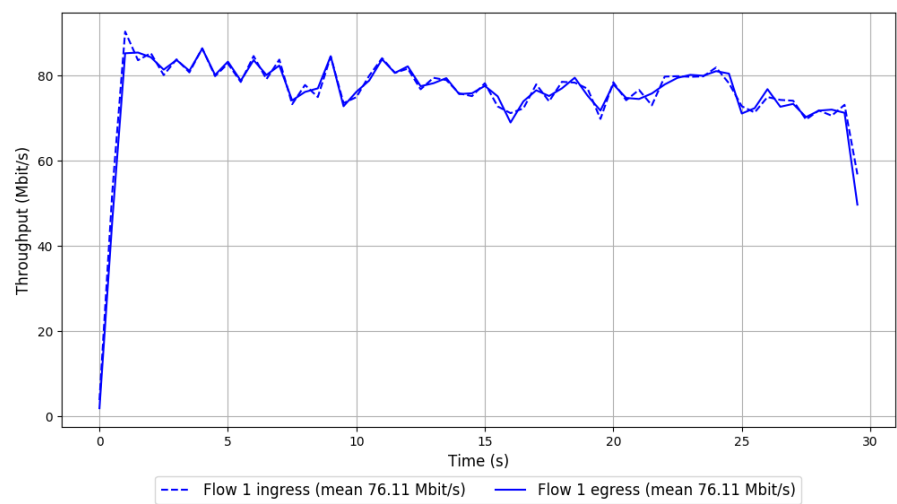
-- Flow 1:

Average throughput: 76.11 Mbit/s

95th percentile per-packet one-way delay: 75.794 ms

Loss rate: 0.38%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-03-20 12:03:44

End at: 2018-03-20 12:04:14

Local clock offset: 1.006 ms

Remote clock offset: -30.676 ms

Below is generated by plot.py at 2018-03-20 18:29:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.79 Mbit/s

95th percentile per-packet one-way delay: 79.918 ms

Loss rate: 0.33%

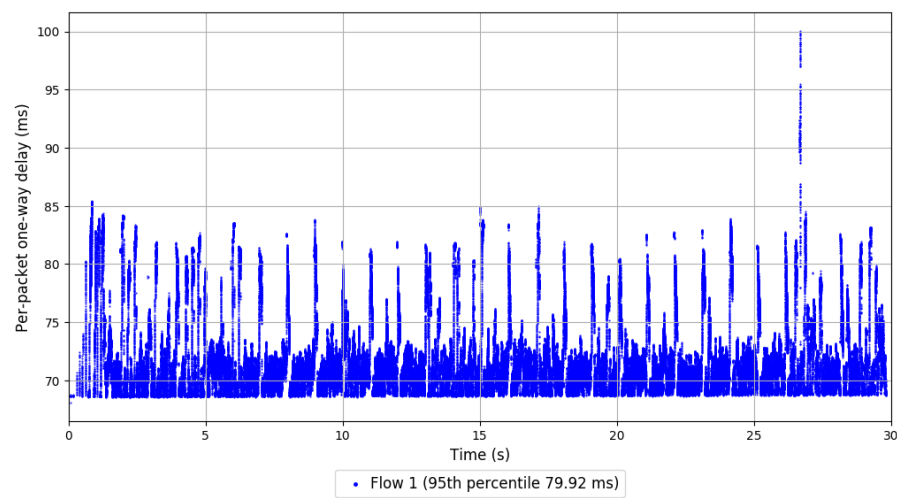
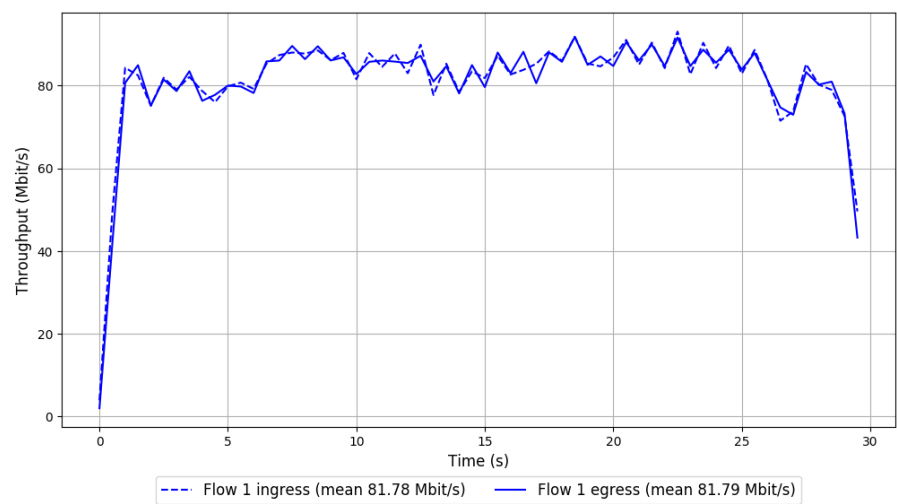
-- Flow 1:

Average throughput: 81.79 Mbit/s

95th percentile per-packet one-way delay: 79.918 ms

Loss rate: 0.33%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-03-20 12:25:34

End at: 2018-03-20 12:26:04

Local clock offset: -1.131 ms

Remote clock offset: -49.181 ms

Below is generated by plot.py at 2018-03-20 18:30:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.35 Mbit/s

95th percentile per-packet one-way delay: 95.473 ms

Loss rate: 0.41%

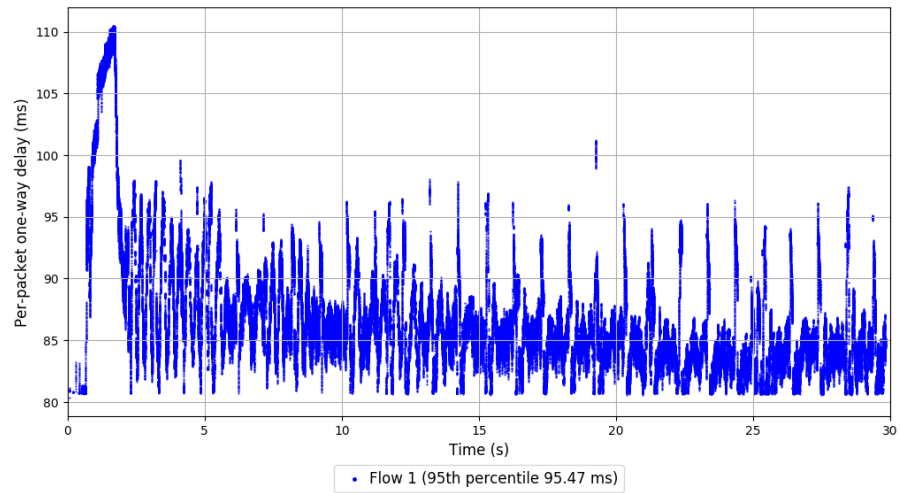
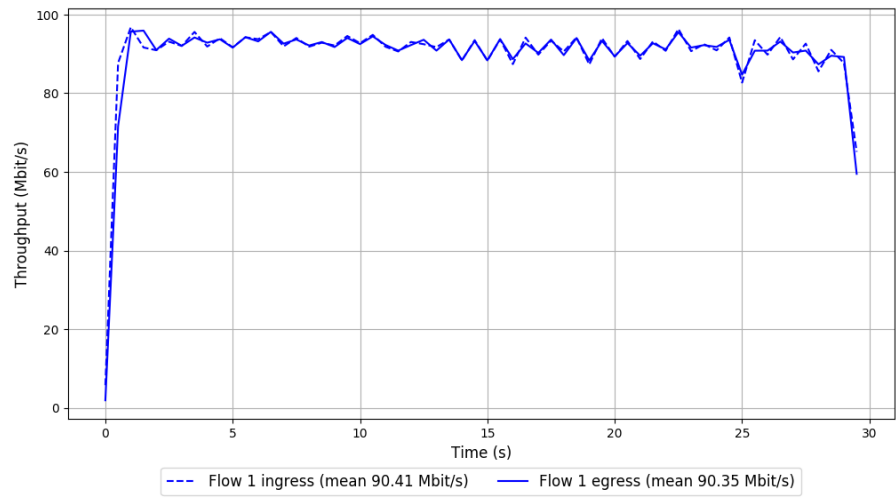
-- Flow 1:

Average throughput: 90.35 Mbit/s

95th percentile per-packet one-way delay: 95.473 ms

Loss rate: 0.41%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-03-20 12:48:26

End at: 2018-03-20 12:48:56

Local clock offset: 3.525 ms

Remote clock offset: -45.795 ms

Below is generated by plot.py at 2018-03-20 18:30:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.82 Mbit/s

95th percentile per-packet one-way delay: 91.732 ms

Loss rate: 0.36%

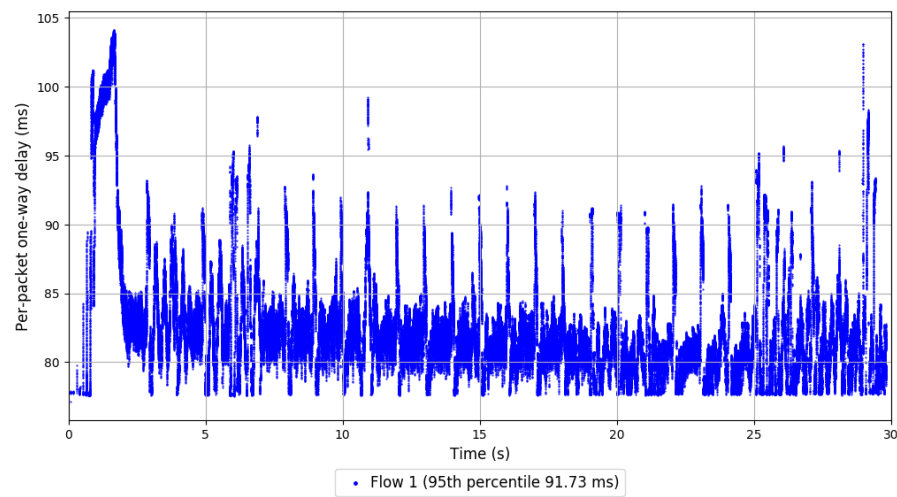
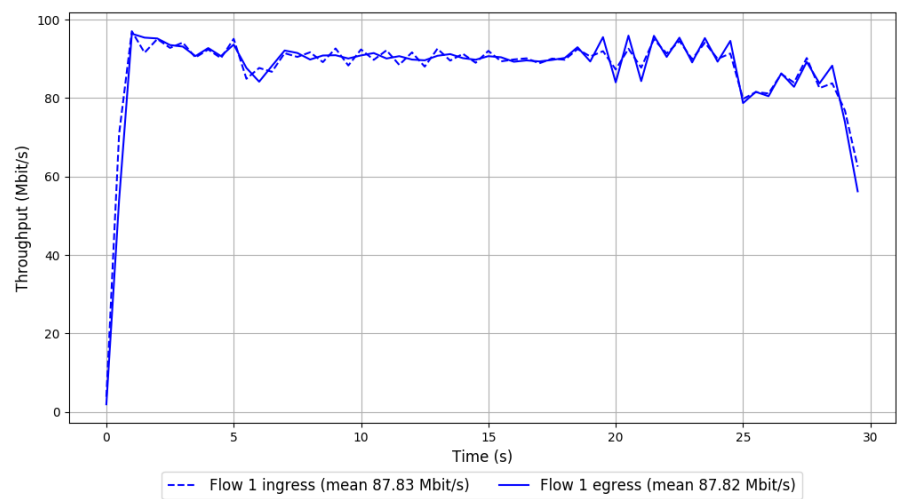
-- Flow 1:

Average throughput: 87.82 Mbit/s

95th percentile per-packet one-way delay: 91.732 ms

Loss rate: 0.36%

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

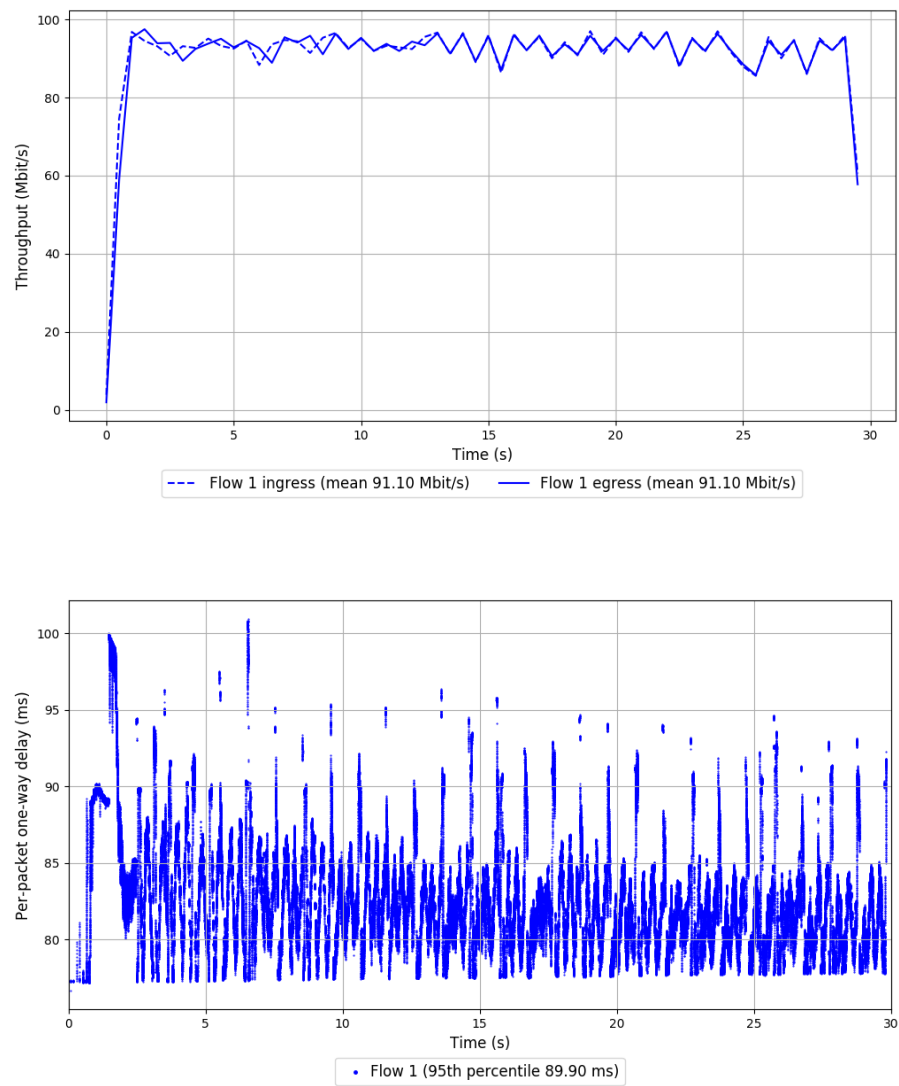


Run 7: Statistics of Indigo-1-32

Start at: 2018-03-20 13:10:18
End at: 2018-03-20 13:10:48
Local clock offset: 1.512 ms
Remote clock offset: -42.229 ms

Below is generated by plot.py at 2018-03-20 18:30:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.10 Mbit/s
95th percentile per-packet one-way delay: 89.899 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 91.10 Mbit/s
95th percentile per-packet one-way delay: 89.899 ms
Loss rate: 0.34%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-03-20 13:32:14

End at: 2018-03-20 13:32:44

Local clock offset: -11.585 ms

Remote clock offset: -37.693 ms

Below is generated by plot.py at 2018-03-20 18:30:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.78 Mbit/s

95th percentile per-packet one-way delay: 87.076 ms

Loss rate: 0.39%

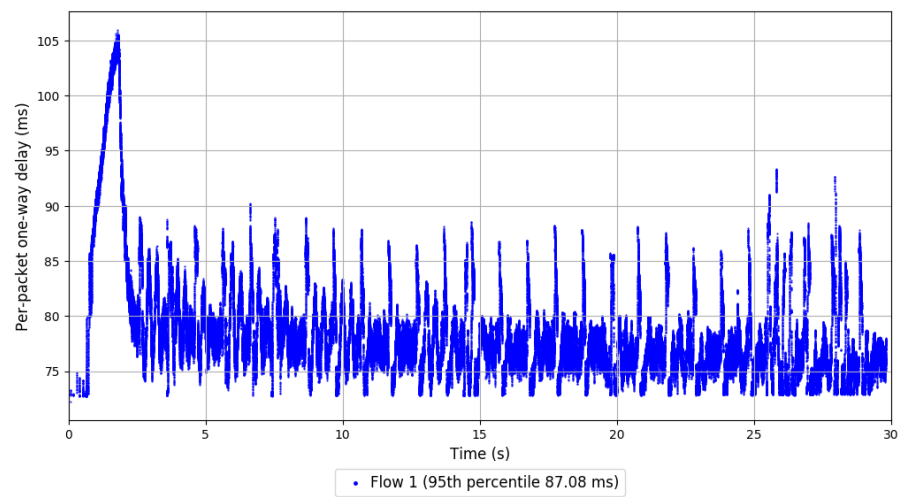
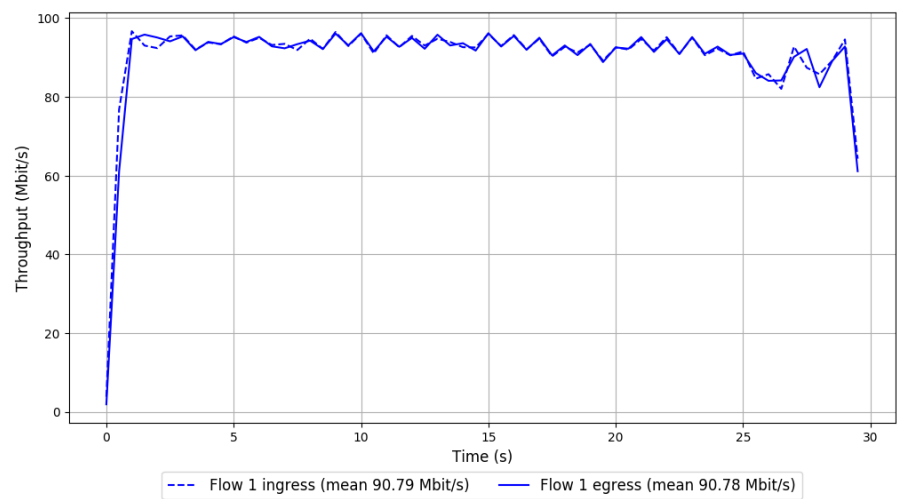
-- Flow 1:

Average throughput: 90.78 Mbit/s

95th percentile per-packet one-way delay: 87.076 ms

Loss rate: 0.39%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-03-20 13:55:08

End at: 2018-03-20 13:55:38

Local clock offset: 1.485 ms

Remote clock offset: -40.534 ms

Below is generated by plot.py at 2018-03-20 18:30:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.27 Mbit/s

95th percentile per-packet one-way delay: 85.771 ms

Loss rate: 0.39%

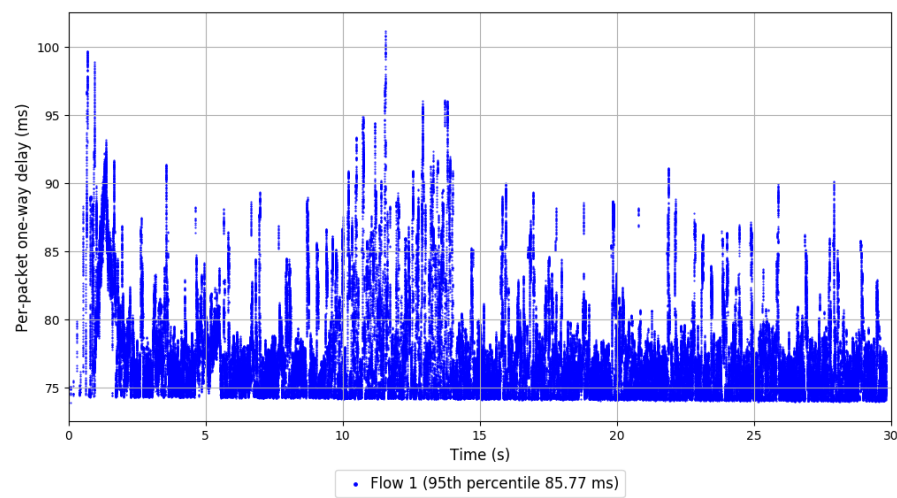
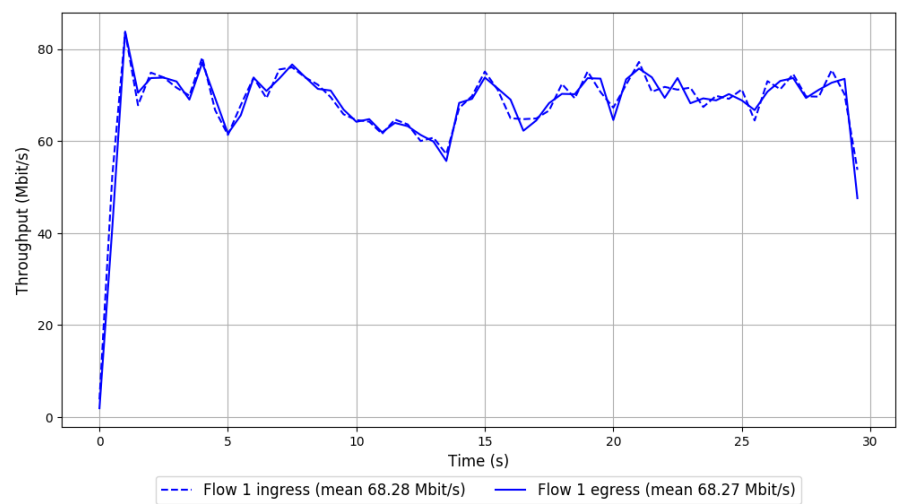
-- Flow 1:

Average throughput: 68.27 Mbit/s

95th percentile per-packet one-way delay: 85.771 ms

Loss rate: 0.39%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-03-20 14:16:53

End at: 2018-03-20 14:17:23

Local clock offset: 9.593 ms

Remote clock offset: -39.17 ms

Below is generated by plot.py at 2018-03-20 18:30:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.03 Mbit/s

95th percentile per-packet one-way delay: 87.120 ms

Loss rate: 0.39%

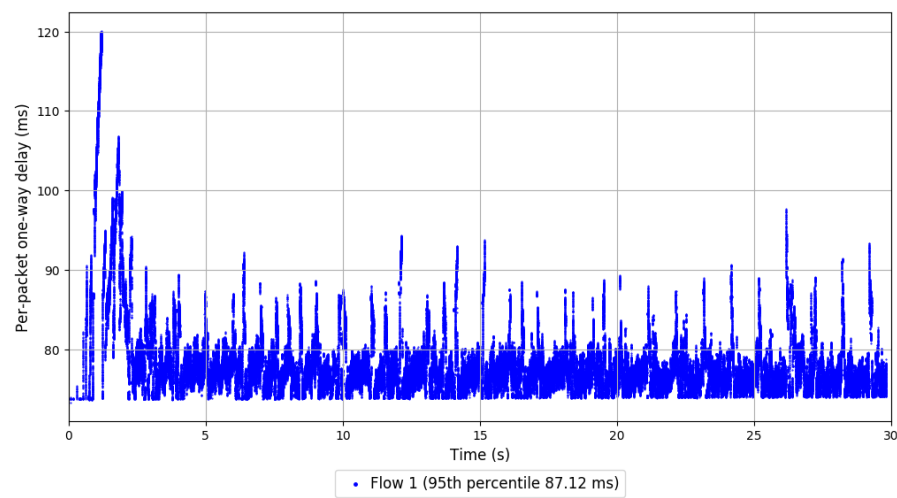
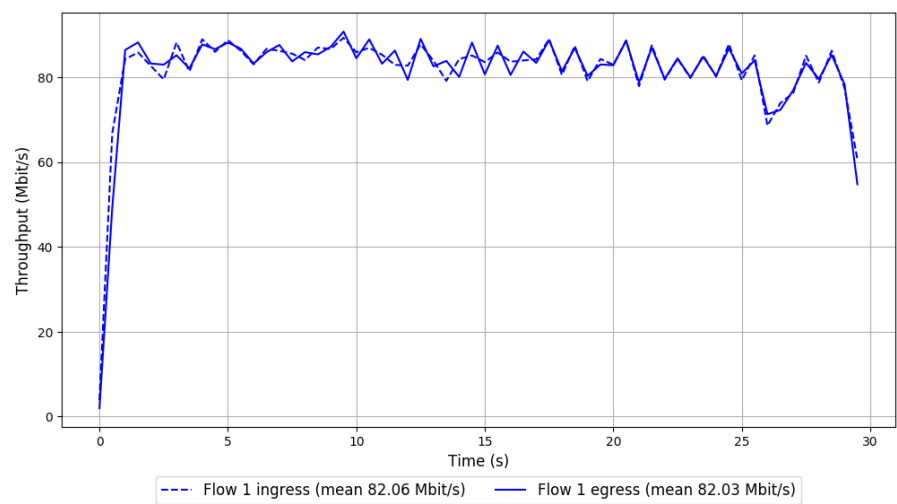
-- Flow 1:

Average throughput: 82.03 Mbit/s

95th percentile per-packet one-way delay: 87.120 ms

Loss rate: 0.39%

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

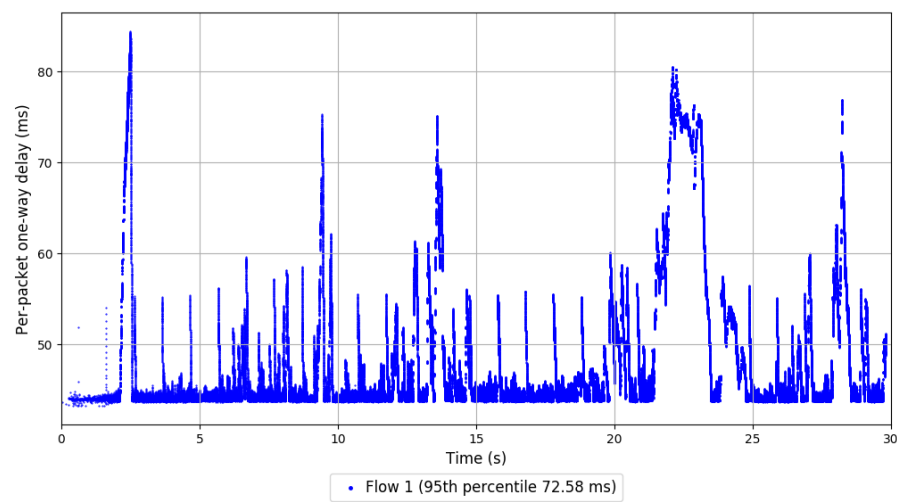
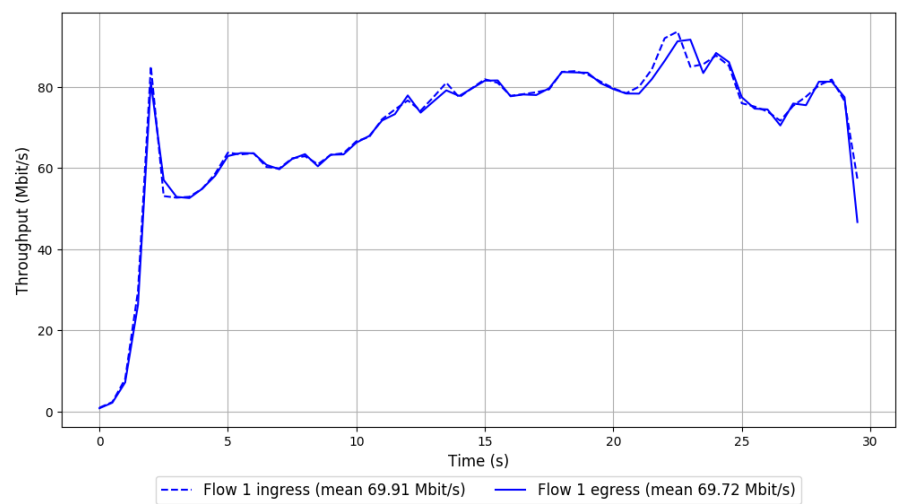


Run 1: Statistics of Vivace-latency

Start at: 2018-03-20 10:50:02
End at: 2018-03-20 10:50:32
Local clock offset: 3.833 ms
Remote clock offset: -12.724 ms

Below is generated by plot.py at 2018-03-20 18:30:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 69.72 Mbit/s
95th percentile per-packet one-way delay: 72.583 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 69.72 Mbit/s
95th percentile per-packet one-way delay: 72.583 ms
Loss rate: 0.64%

Run 1: Report of Vivace-latency — Data Link

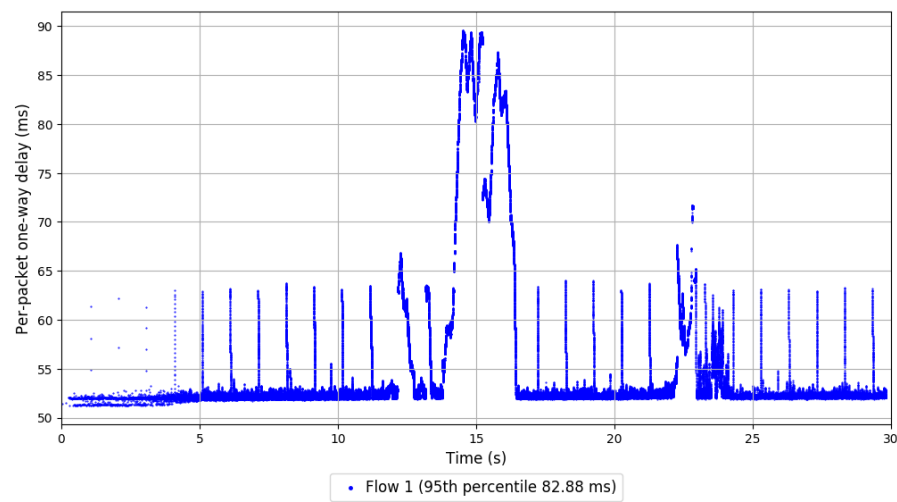
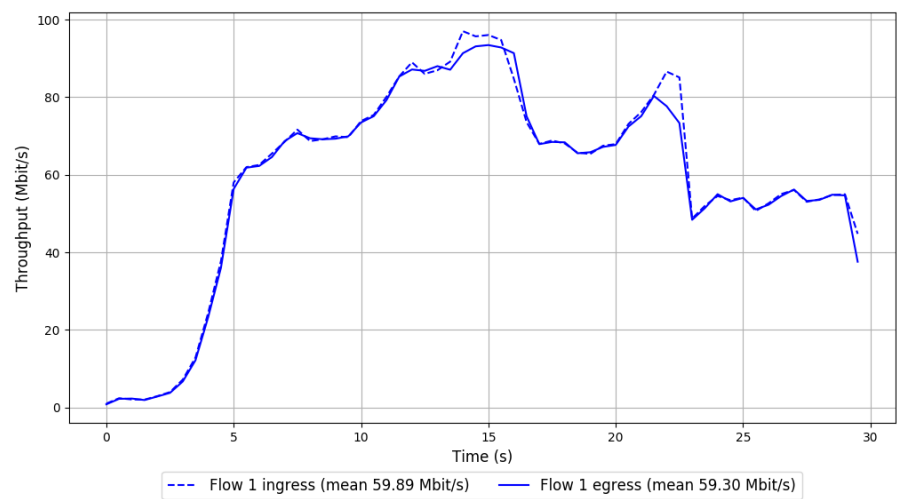


Run 2: Statistics of Vivace-latency

Start at: 2018-03-20 11:11:45
End at: 2018-03-20 11:12:15
Local clock offset: -11.034 ms
Remote clock offset: -18.374 ms

Below is generated by plot.py at 2018-03-20 18:30:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 59.30 Mbit/s
95th percentile per-packet one-way delay: 82.876 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 59.30 Mbit/s
95th percentile per-packet one-way delay: 82.876 ms
Loss rate: 1.34%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

/home/ubuntu/pantheon_data/2018-03-20T10-43-China-to-AWS-Korea-10-runs/vivace_latency_stats.

Run 3: Report of Vivace-latency — Data Link

Figure is missing

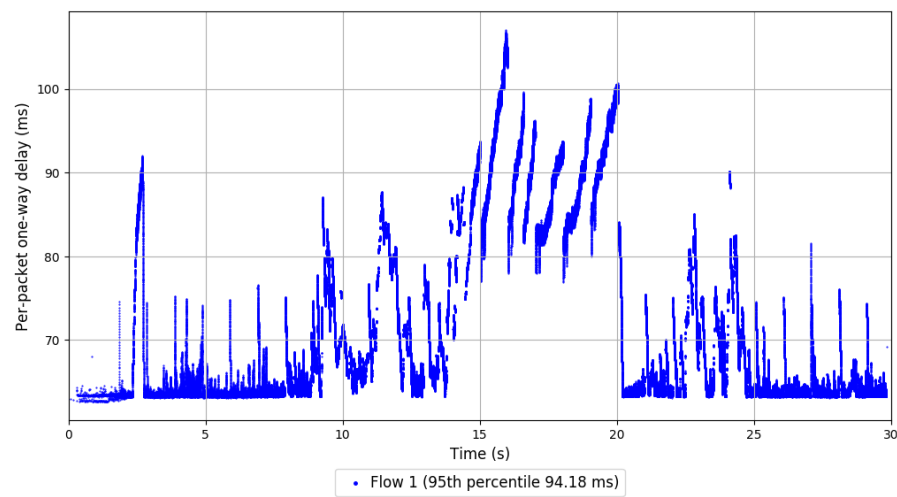
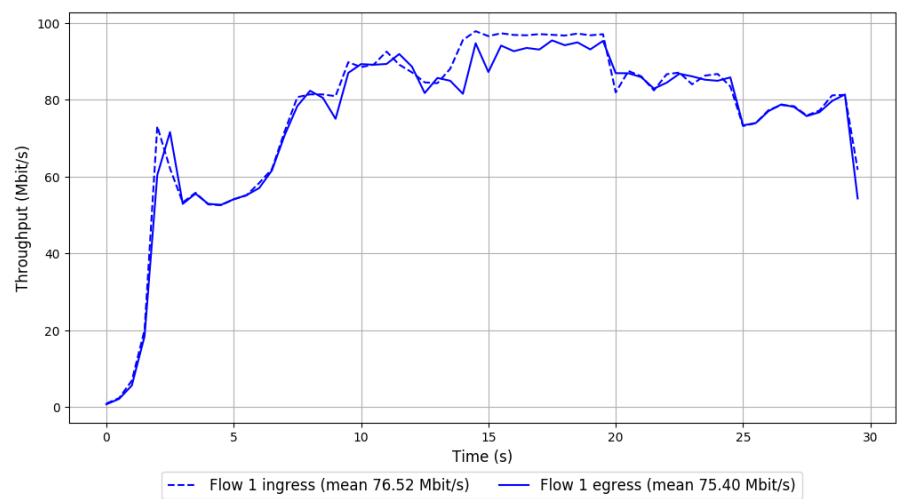
Figure is missing

Run 4: Statistics of Vivace-latency

Start at: 2018-03-20 11:55:58
End at: 2018-03-20 11:56:28
Local clock offset: 1.471 ms
Remote clock offset: -26.211 ms

Below is generated by plot.py at 2018-03-20 18:31:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 75.40 Mbit/s
95th percentile per-packet one-way delay: 94.183 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 75.40 Mbit/s
95th percentile per-packet one-way delay: 94.183 ms
Loss rate: 1.79%

Run 4: Report of Vivace-latency — Data Link

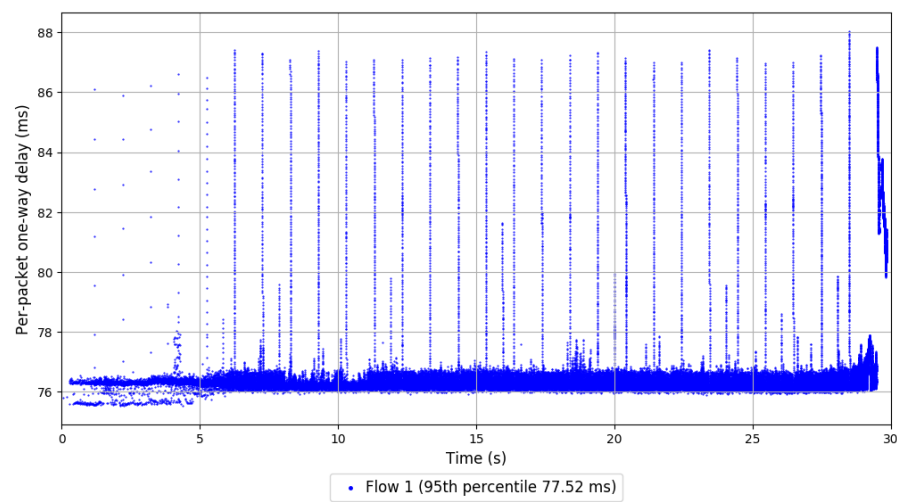
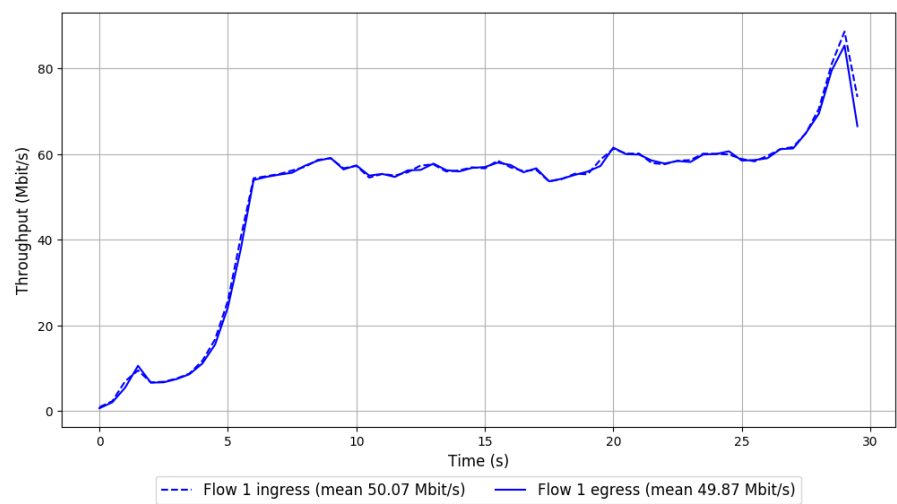


Run 5: Statistics of Vivace-latency

Start at: 2018-03-20 12:18:19
End at: 2018-03-20 12:18:49
Local clock offset: -0.614 ms
Remote clock offset: -42.904 ms

Below is generated by plot.py at 2018-03-20 18:31:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 49.87 Mbit/s
95th percentile per-packet one-way delay: 77.519 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 49.87 Mbit/s
95th percentile per-packet one-way delay: 77.519 ms
Loss rate: 0.76%

Run 5: Report of Vivace-latency — Data Link

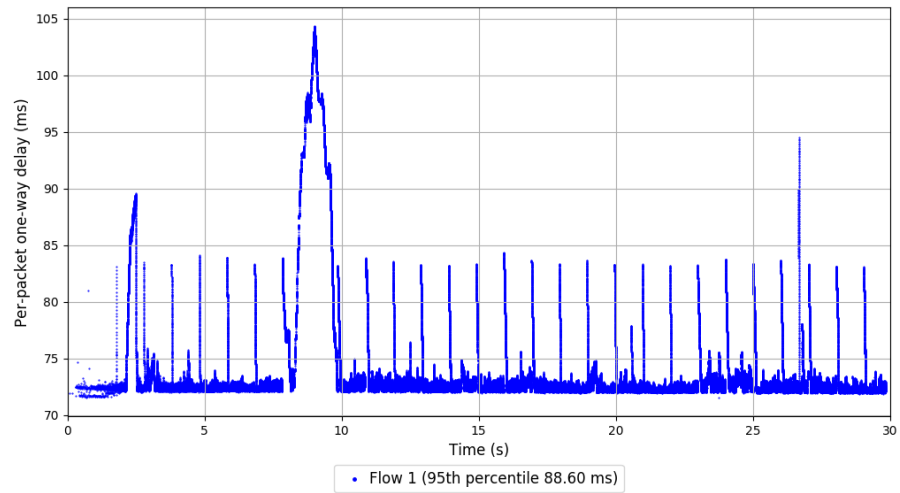
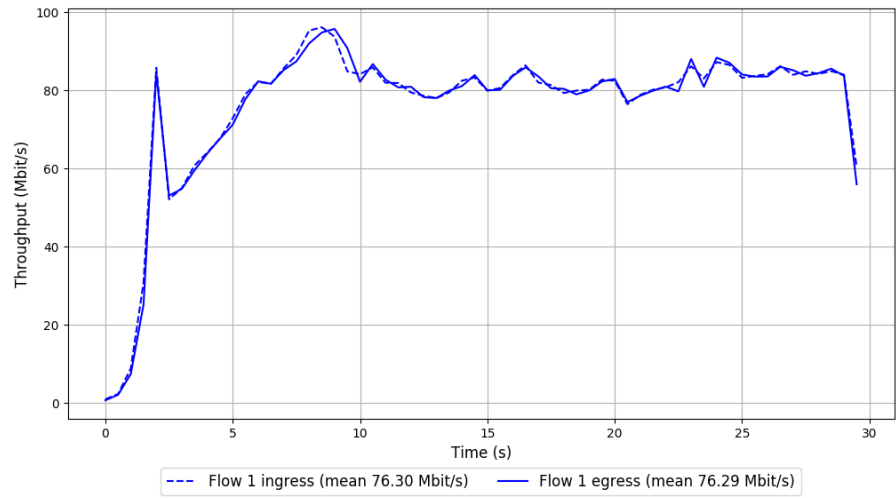


Run 6: Statistics of Vivace-latency

Start at: 2018-03-20 12:41:08
End at: 2018-03-20 12:41:38
Local clock offset: 1.741 ms
Remote clock offset: -42.599 ms

Below is generated by plot.py at 2018-03-20 18:31:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.29 Mbit/s
95th percentile per-packet one-way delay: 88.596 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 76.29 Mbit/s
95th percentile per-packet one-way delay: 88.596 ms
Loss rate: 0.36%

Run 6: Report of Vivace-latency — Data Link

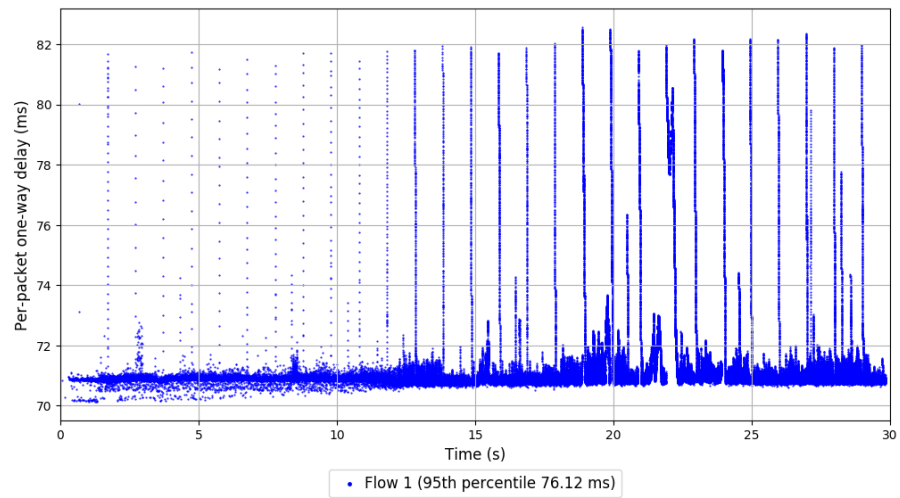
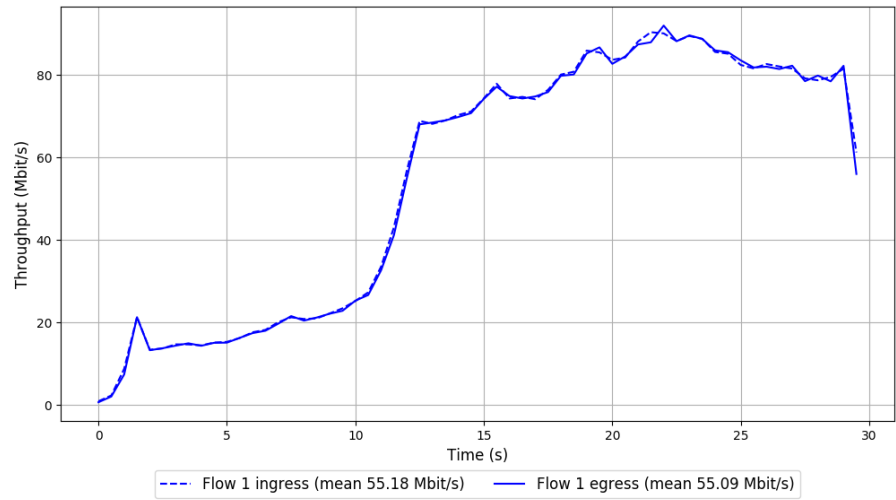


Run 7: Statistics of Vivace-latency

Start at: 2018-03-20 13:03:01
End at: 2018-03-20 13:03:31
Local clock offset: 4.816 ms
Remote clock offset: -36.197 ms

Below is generated by plot.py at 2018-03-20 18:31:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 55.09 Mbit/s
95th percentile per-packet one-way delay: 76.120 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 55.09 Mbit/s
95th percentile per-packet one-way delay: 76.120 ms
Loss rate: 0.51%

Run 7: Report of Vivace-latency — Data Link

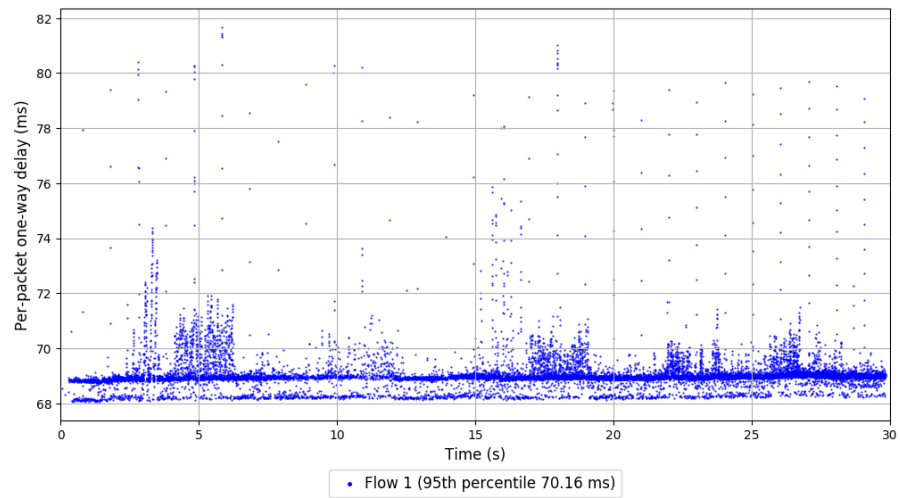
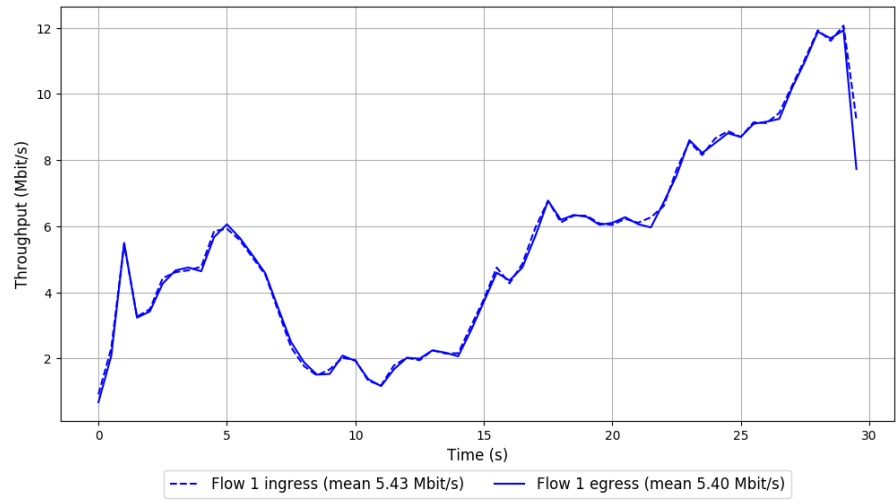


Run 8: Statistics of Vivace-latency

Start at: 2018-03-20 13:25:02
End at: 2018-03-20 13:25:32
Local clock offset: -9.075 ms
Remote clock offset: -33.722 ms

Below is generated by plot.py at 2018-03-20 18:31:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 5.40 Mbit/s
95th percentile per-packet one-way delay: 70.158 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 5.40 Mbit/s
95th percentile per-packet one-way delay: 70.158 ms
Loss rate: 1.02%

Run 8: Report of Vivace-latency — Data Link

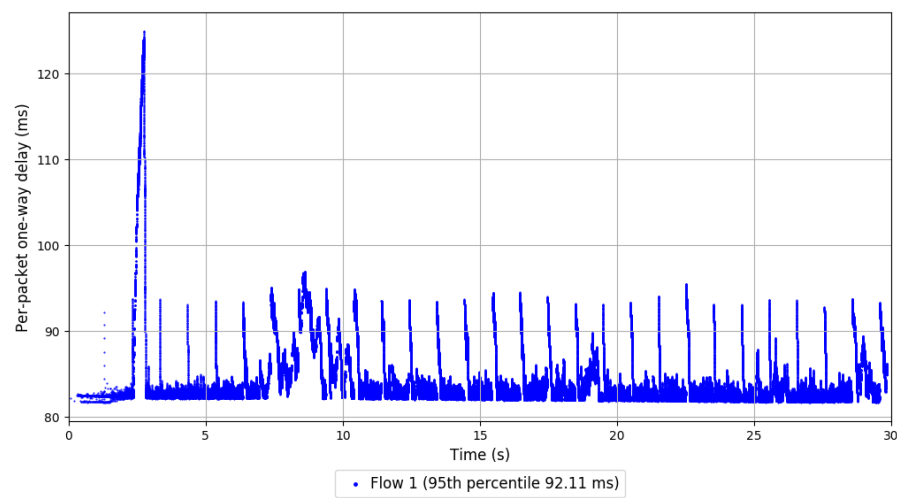
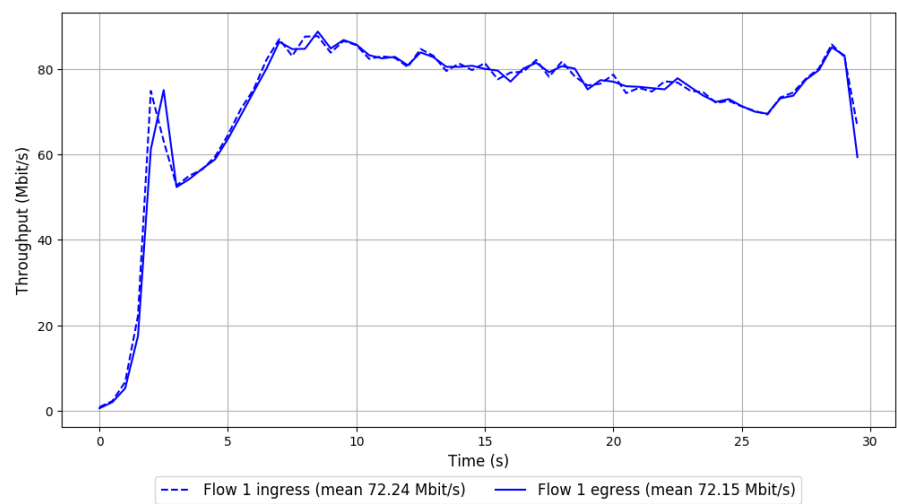


Run 9: Statistics of Vivace-latency

Start at: 2018-03-20 13:47:49
End at: 2018-03-20 13:48:19
Local clock offset: -5.025 ms
Remote clock offset: -48.472 ms

Below is generated by plot.py at 2018-03-20 18:31:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 72.15 Mbit/s
95th percentile per-packet one-way delay: 92.110 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 72.15 Mbit/s
95th percentile per-packet one-way delay: 92.110 ms
Loss rate: 0.49%

Run 9: Report of Vivace-latency — Data Link

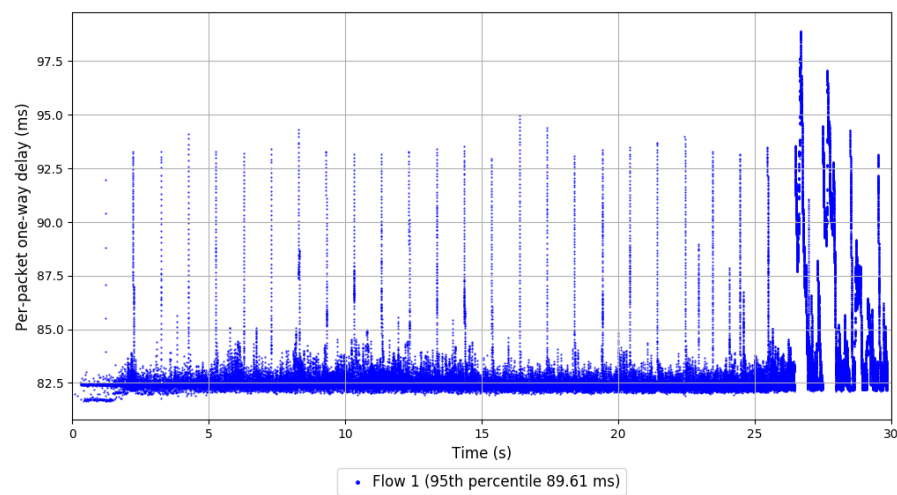
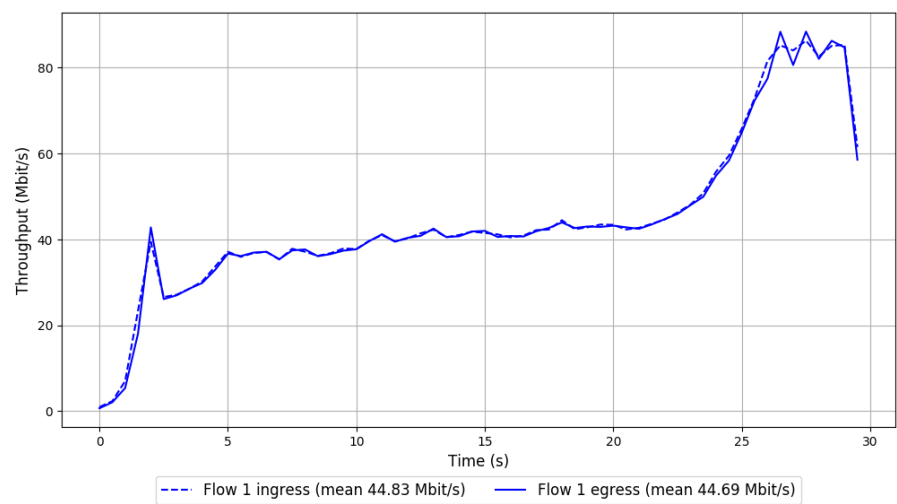


Run 10: Statistics of Vivace-latency

Start at: 2018-03-20 14:09:37
End at: 2018-03-20 14:10:07
Local clock offset: 8.146 ms
Remote clock offset: -48.082 ms

Below is generated by plot.py at 2018-03-20 18:31:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 44.69 Mbit/s
95th percentile per-packet one-way delay: 89.607 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 44.69 Mbit/s
95th percentile per-packet one-way delay: 89.607 ms
Loss rate: 0.65%

Run 10: Report of Vivace-latency — Data Link



Run 1: Statistics of Vivace-loss

Start at: 2018-03-20 11:03:25

End at: 2018-03-20 11:03:55

Local clock offset: -7.373 ms

Remote clock offset: -19.766 ms

Below is generated by plot.py at 2018-03-20 18:32:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.30 Mbit/s

95th percentile per-packet one-way delay: 96.503 ms

Loss rate: 2.66%

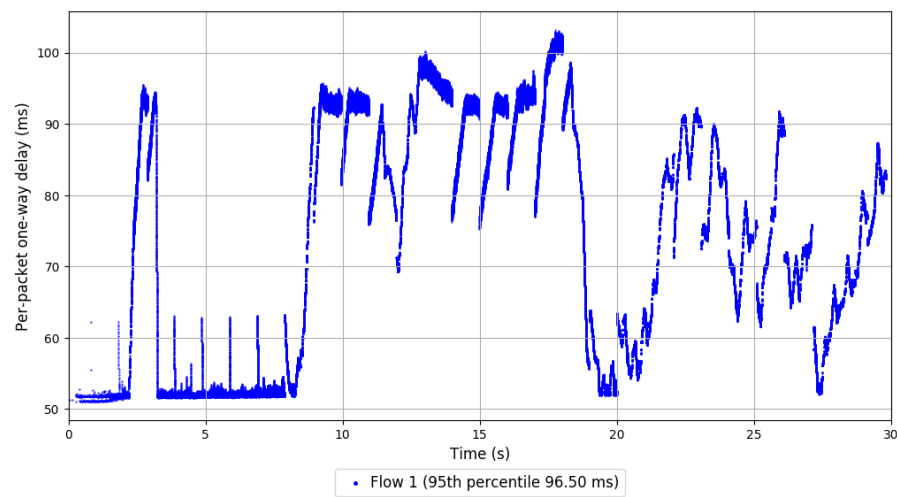
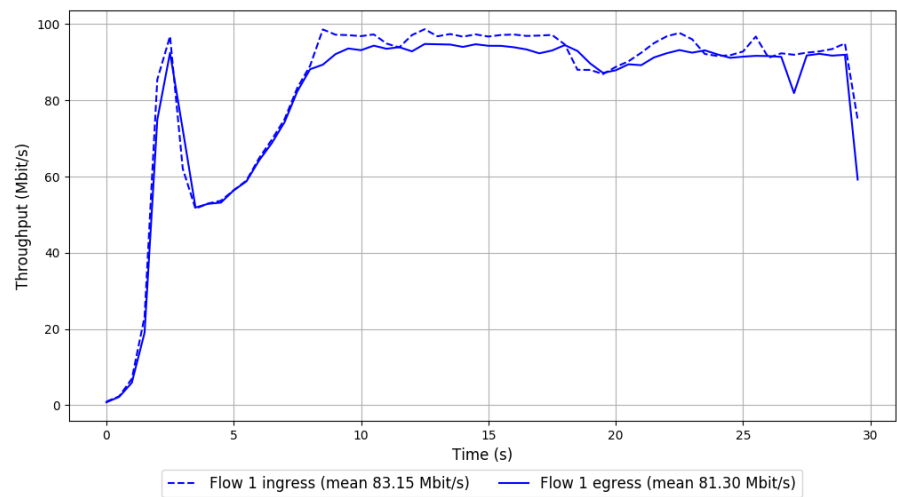
-- Flow 1:

Average throughput: 81.30 Mbit/s

95th percentile per-packet one-way delay: 96.503 ms

Loss rate: 2.66%

Run 1: Report of Vivace-loss — Data Link

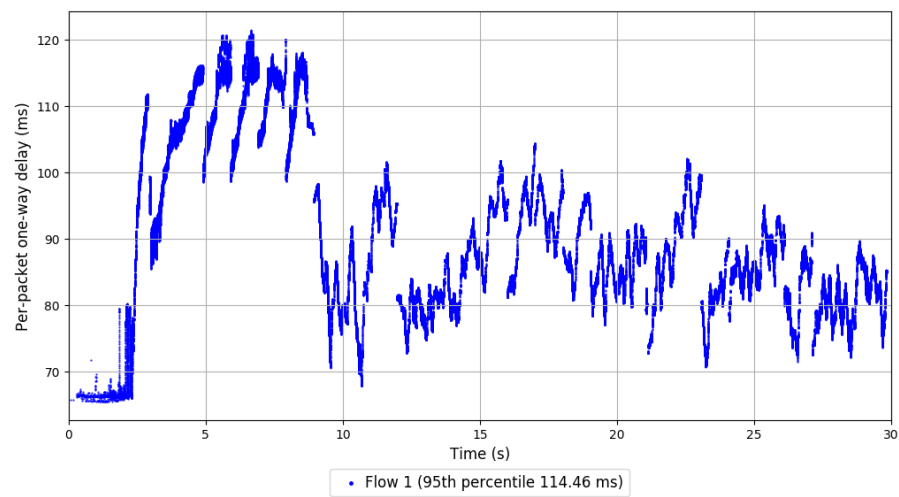
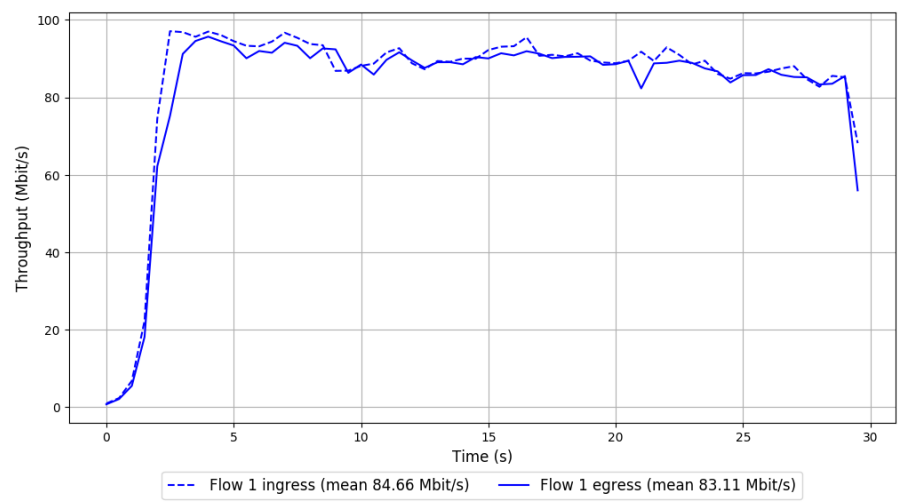


Run 2: Statistics of Vivace-loss

Start at: 2018-03-20 11:25:08
End at: 2018-03-20 11:25:38
Local clock offset: -15.005 ms
Remote clock offset: -32.177 ms

Below is generated by plot.py at 2018-03-20 18:32:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 83.11 Mbit/s
95th percentile per-packet one-way delay: 114.463 ms
Loss rate: 2.25%
-- Flow 1:
Average throughput: 83.11 Mbit/s
95th percentile per-packet one-way delay: 114.463 ms
Loss rate: 2.25%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-03-20 11:47:38

End at: 2018-03-20 11:48:08

Local clock offset: 1.224 ms

Remote clock offset: -26.246 ms

Below is generated by plot.py at 2018-03-20 18:32:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.33 Mbit/s

95th percentile per-packet one-way delay: 95.092 ms

Loss rate: 1.38%

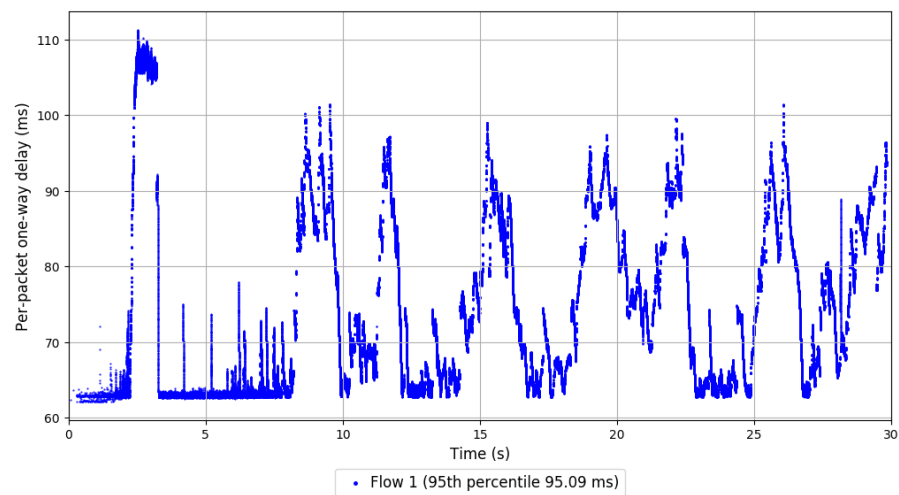
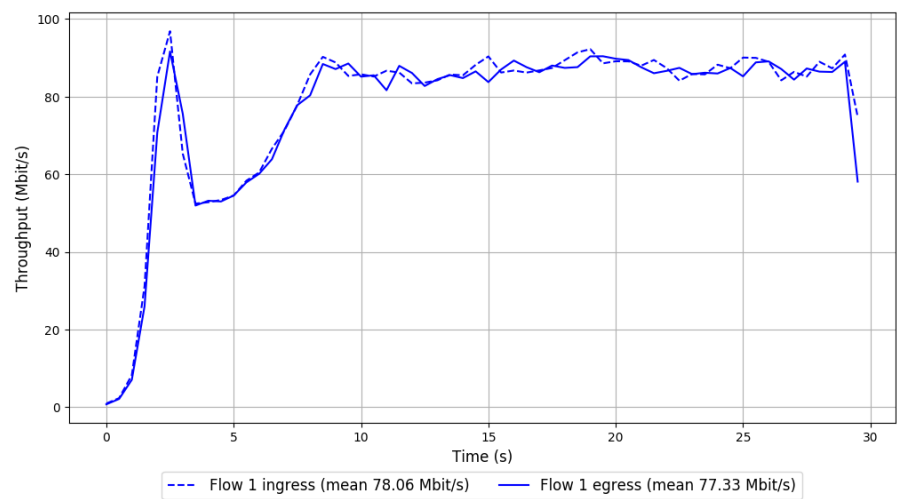
-- Flow 1:

Average throughput: 77.33 Mbit/s

95th percentile per-packet one-way delay: 95.092 ms

Loss rate: 1.38%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-03-20 12:09:53

End at: 2018-03-20 12:10:23

Local clock offset: -0.14 ms

Remote clock offset: -32.538 ms

Below is generated by plot.py at 2018-03-20 18:32:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.84 Mbit/s

95th percentile per-packet one-way delay: 116.305 ms

Loss rate: 1.10%

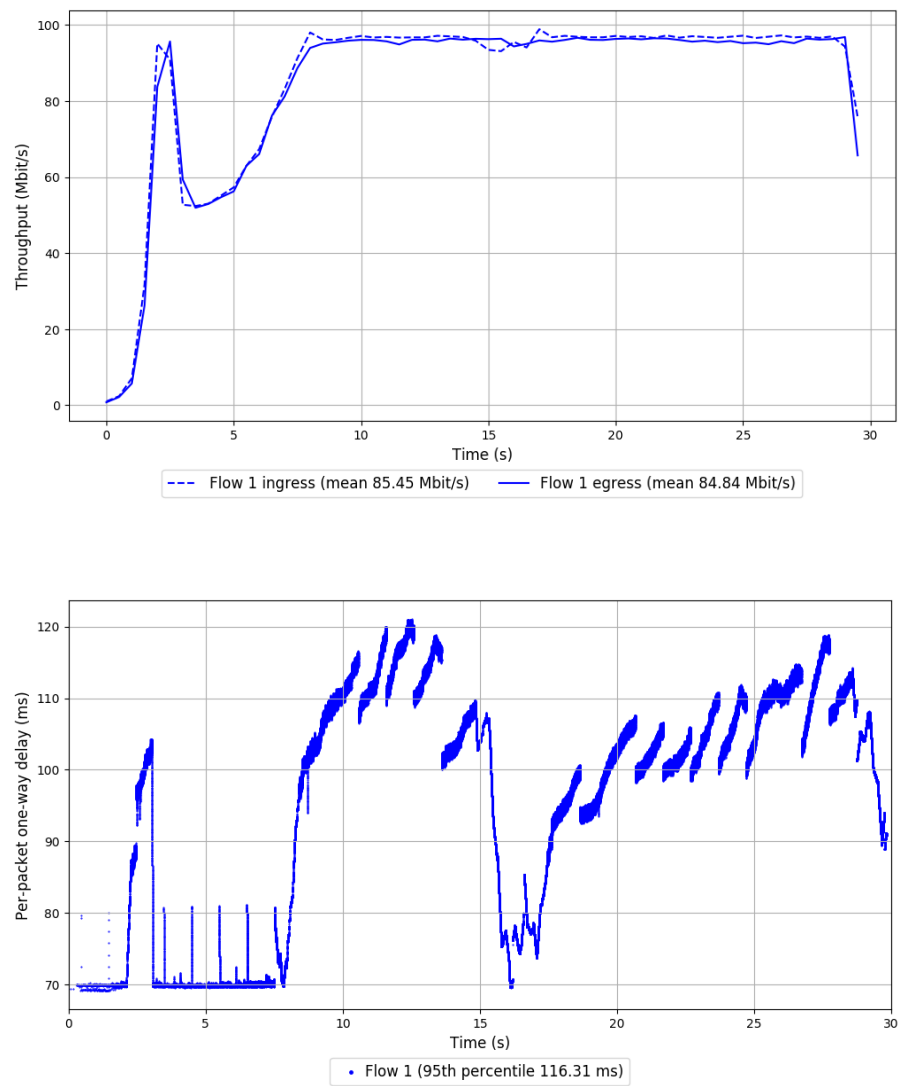
-- Flow 1:

Average throughput: 84.84 Mbit/s

95th percentile per-packet one-way delay: 116.305 ms

Loss rate: 1.10%

Run 4: Report of Vivace-loss — Data Link

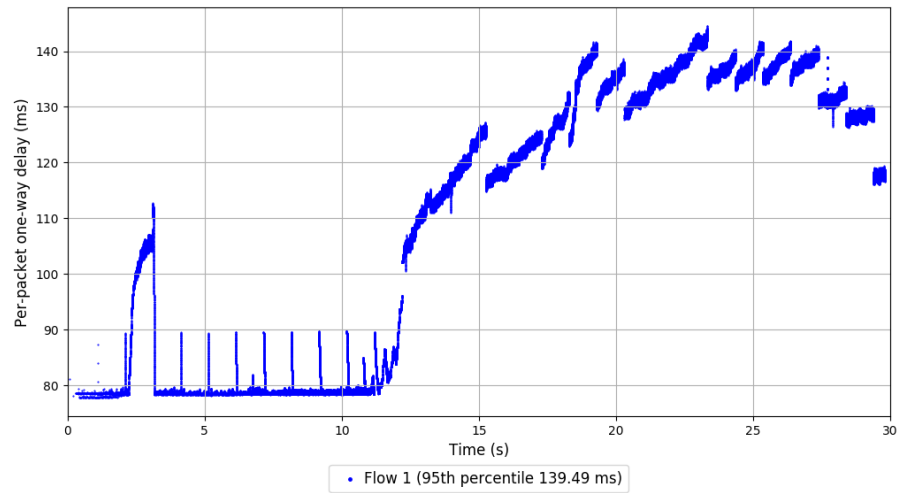
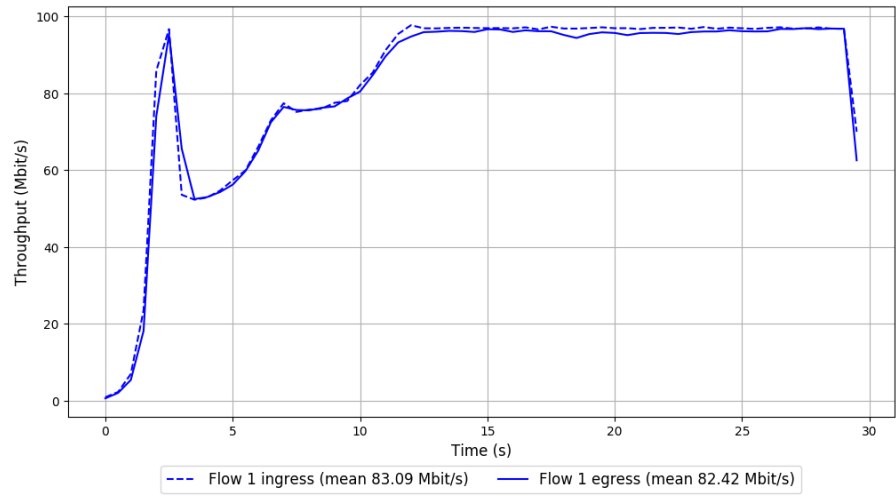


Run 5: Statistics of Vivace-loss

Start at: 2018-03-20 12:31:52
End at: 2018-03-20 12:32:22
Local clock offset: -1.501 ms
Remote clock offset: -47.799 ms

Below is generated by plot.py at 2018-03-20 18:32:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 82.42 Mbit/s
95th percentile per-packet one-way delay: 139.486 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 82.42 Mbit/s
95th percentile per-packet one-way delay: 139.486 ms
Loss rate: 1.20%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-03-20 12:54:34

End at: 2018-03-20 12:55:04

Local clock offset: 4.312 ms

Remote clock offset: -45.547 ms

Below is generated by plot.py at 2018-03-20 18:32:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.61 Mbit/s

95th percentile per-packet one-way delay: 117.346 ms

Loss rate: 1.10%

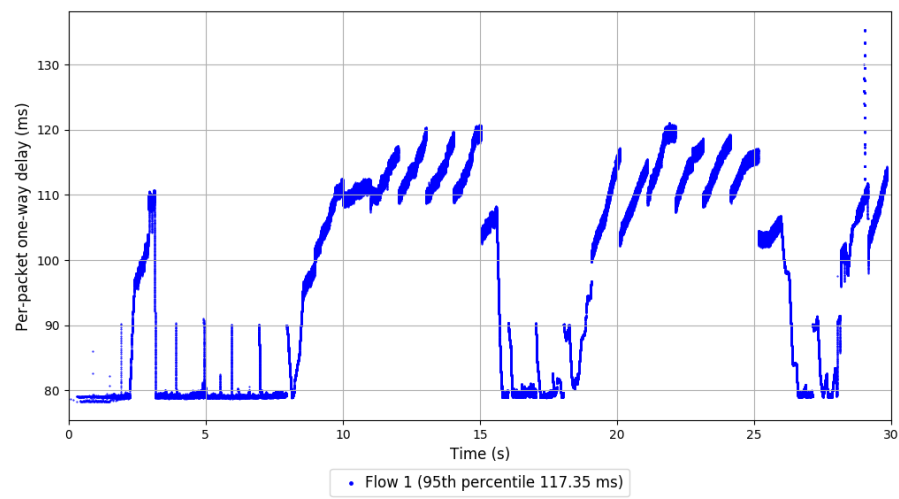
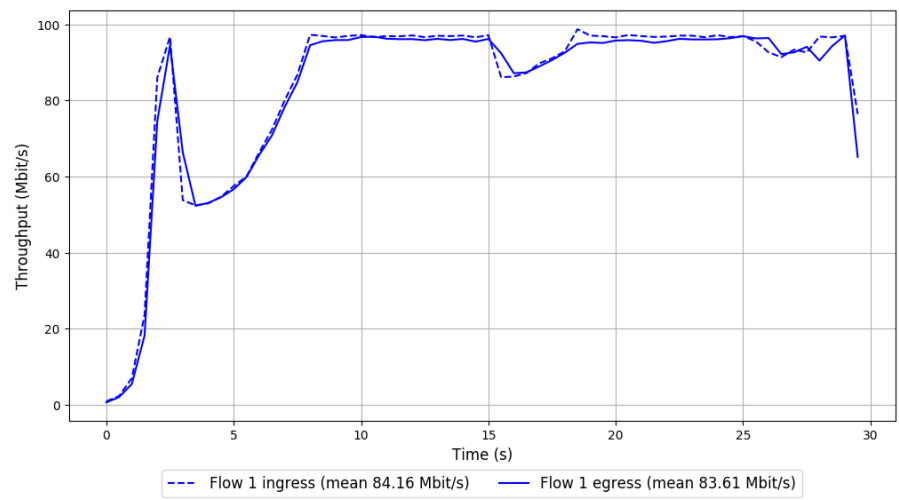
-- Flow 1:

Average throughput: 83.61 Mbit/s

95th percentile per-packet one-way delay: 117.346 ms

Loss rate: 1.10%

Run 6: Report of Vivace-loss — Data Link

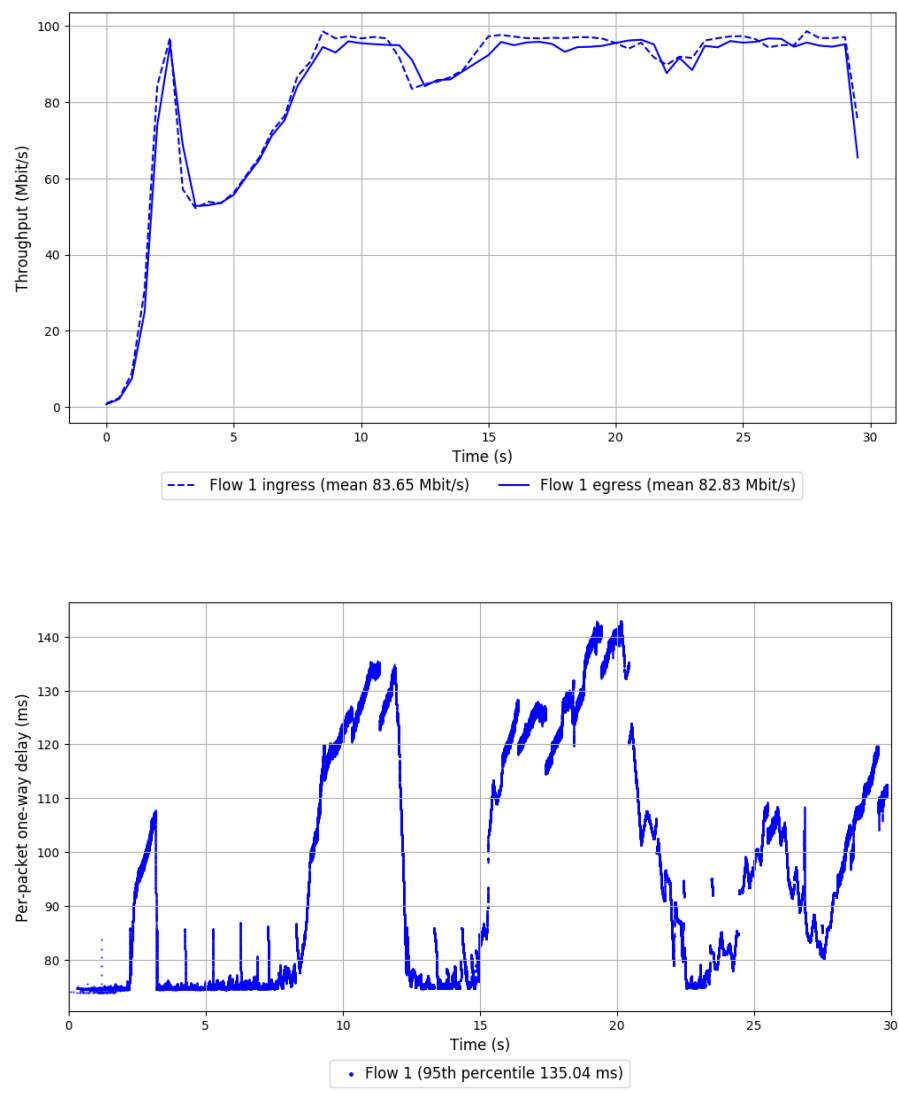


Run 7: Statistics of Vivace-loss

Start at: 2018-03-20 13:16:30
End at: 2018-03-20 13:17:00
Local clock offset: -4.515 ms
Remote clock offset: -38.988 ms

Below is generated by plot.py at 2018-03-20 18:33:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 82.83 Mbit/s
95th percentile per-packet one-way delay: 135.043 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 82.83 Mbit/s
95th percentile per-packet one-way delay: 135.043 ms
Loss rate: 1.37%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

/home/ubuntu/pantheon_data/2018-03-20T10-43-China-to-AWS-Korea-10-runs/vivace_loss_stats_run

Run 8: Report of Vivace-loss — Data Link

Figure is missing

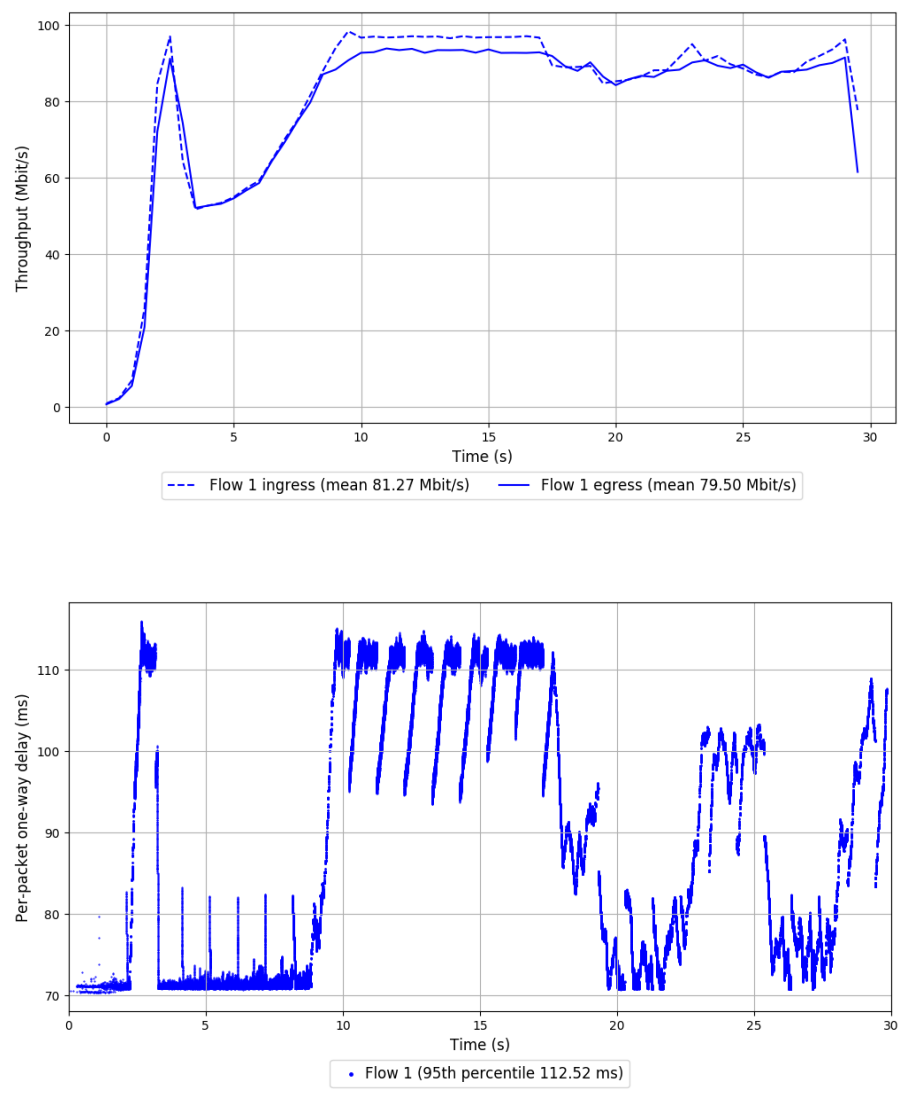
Figure is missing

Run 9: Statistics of Vivace-loss

Start at: 2018-03-20 14:01:13
End at: 2018-03-20 14:01:43
Local clock offset: 2.266 ms
Remote clock offset: -40.264 ms

Below is generated by plot.py at 2018-03-20 18:33:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 79.50 Mbit/s
95th percentile per-packet one-way delay: 112.523 ms
Loss rate: 2.60%
-- Flow 1:
Average throughput: 79.50 Mbit/s
95th percentile per-packet one-way delay: 112.523 ms
Loss rate: 2.60%

Run 9: Report of Vivace-loss — Data Link

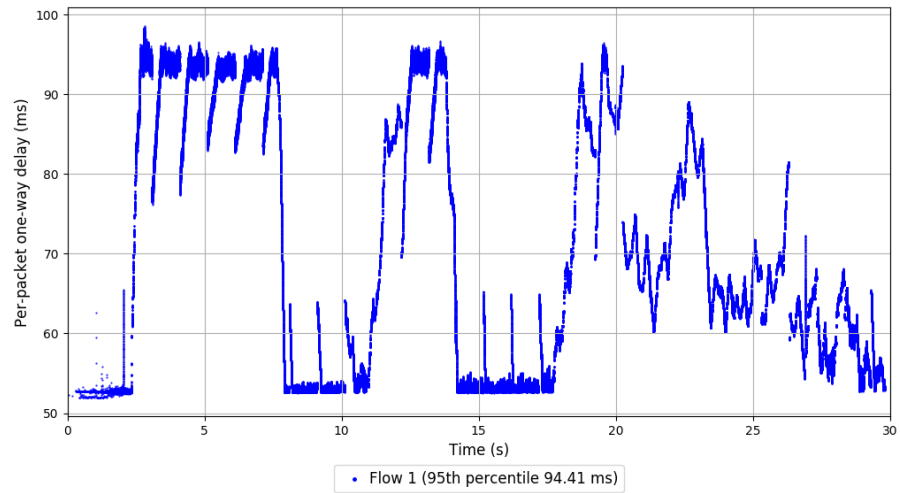
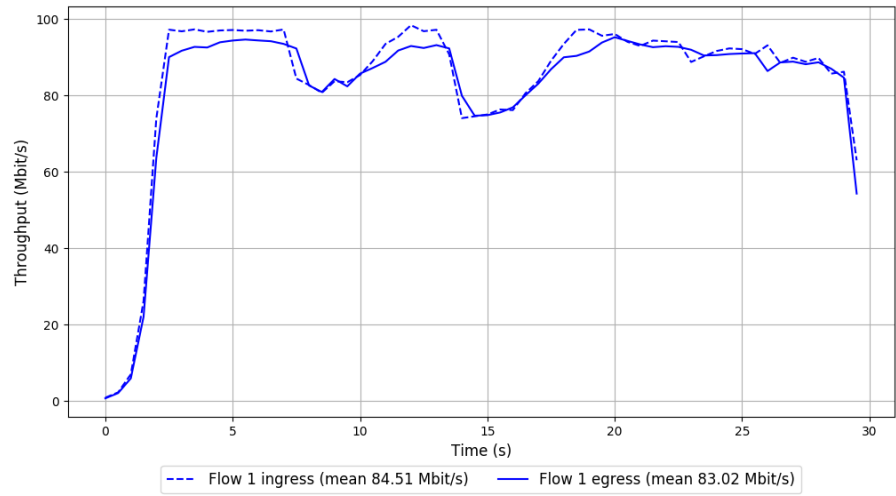


Run 10: Statistics of Vivace-loss

Start at: 2018-03-20 14:23:01
End at: 2018-03-20 14:23:31
Local clock offset: 6.609 ms
Remote clock offset: -18.246 ms

Below is generated by plot.py at 2018-03-20 18:33:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 83.02 Mbit/s
95th percentile per-packet one-way delay: 94.407 ms
Loss rate: 2.12%
-- Flow 1:
Average throughput: 83.02 Mbit/s
95th percentile per-packet one-way delay: 94.407 ms
Loss rate: 2.12%

Run 10: Report of Vivace-loss — Data Link

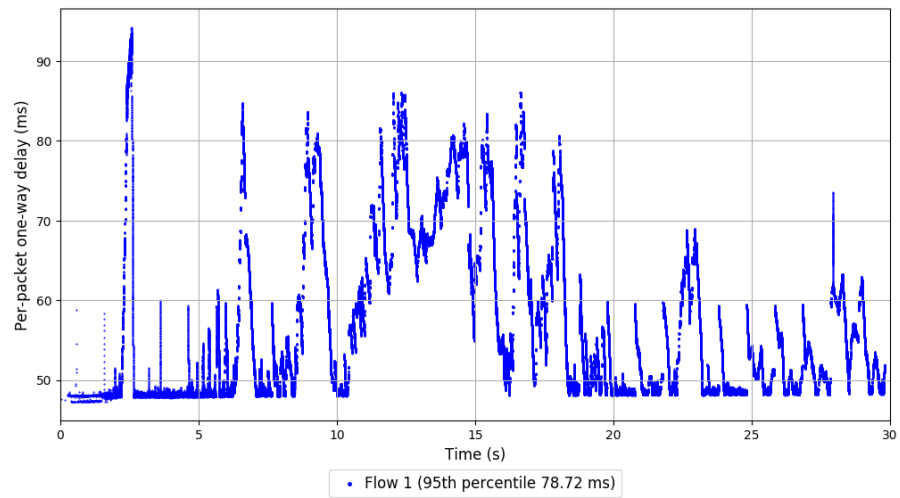
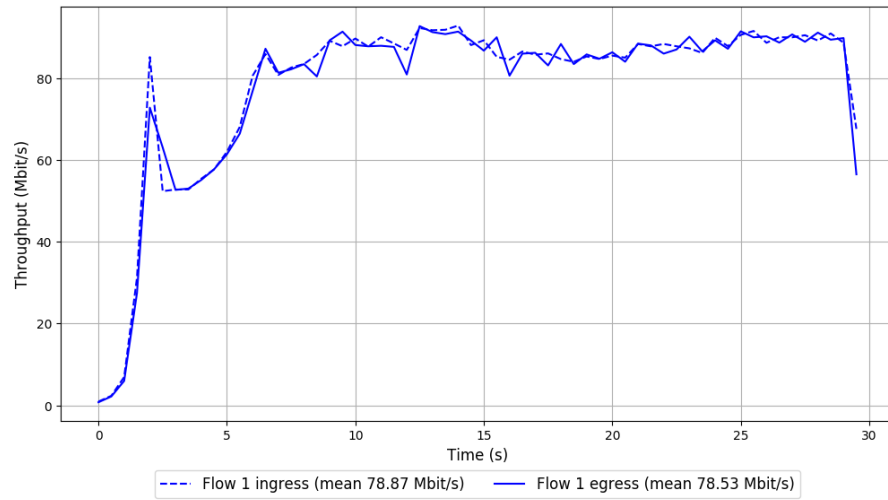


Run 1: Statistics of Vivace-LTE

Start at: 2018-03-20 10:59:44
End at: 2018-03-20 11:00:15
Local clock offset: -5.2 ms
Remote clock offset: -17.812 ms

Below is generated by plot.py at 2018-03-20 18:33:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 78.53 Mbit/s
95th percentile per-packet one-way delay: 78.715 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 78.53 Mbit/s
95th percentile per-packet one-way delay: 78.715 ms
Loss rate: 0.80%

Run 1: Report of Vivace-LTE — Data Link

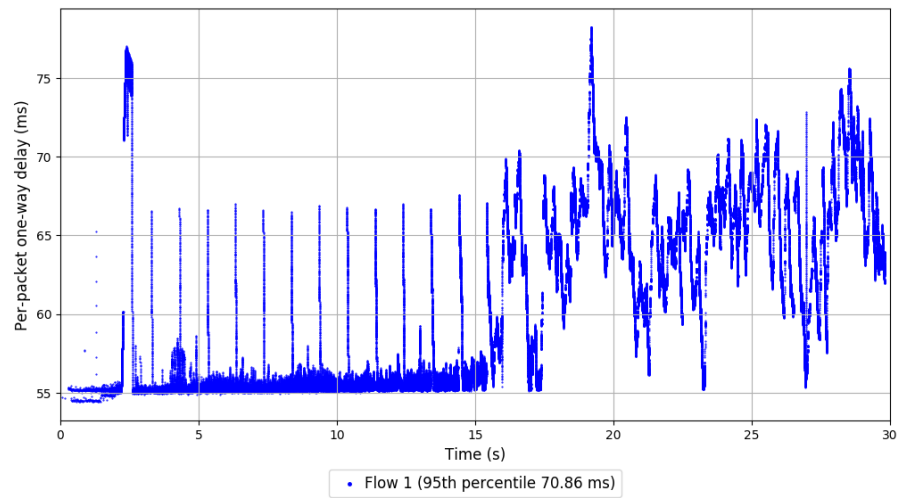
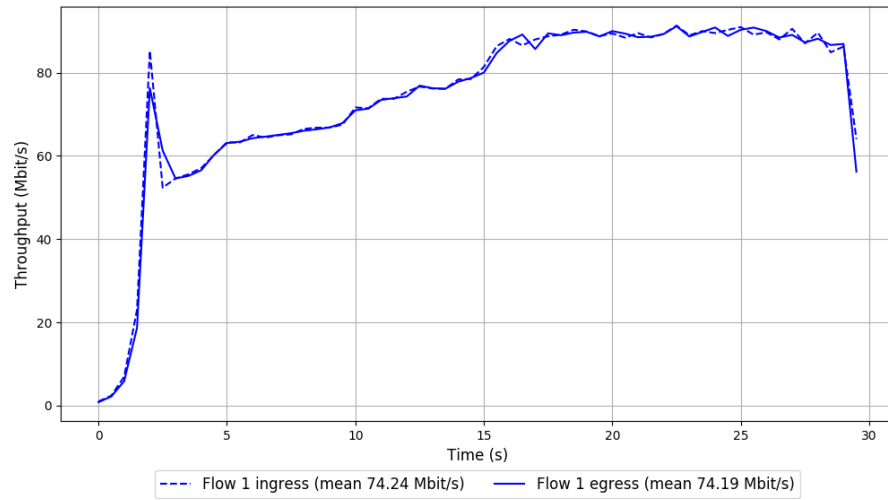


Run 2: Statistics of Vivace-LTE

Start at: 2018-03-20 11:21:28
End at: 2018-03-20 11:21:58
Local clock offset: -13.95 ms
Remote clock offset: -21.104 ms

Below is generated by plot.py at 2018-03-20 18:33:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 74.19 Mbit/s
95th percentile per-packet one-way delay: 70.860 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 74.19 Mbit/s
95th percentile per-packet one-way delay: 70.860 ms
Loss rate: 0.43%

Run 2: Report of Vivace-LTE — Data Link

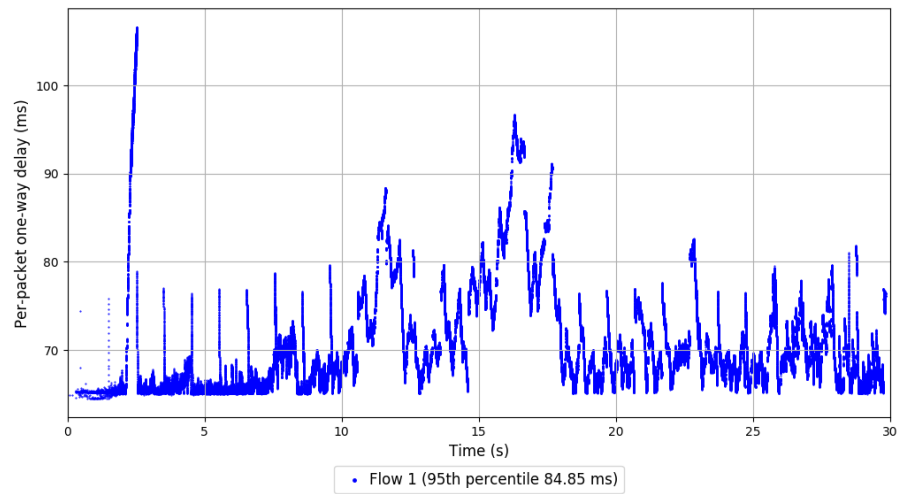
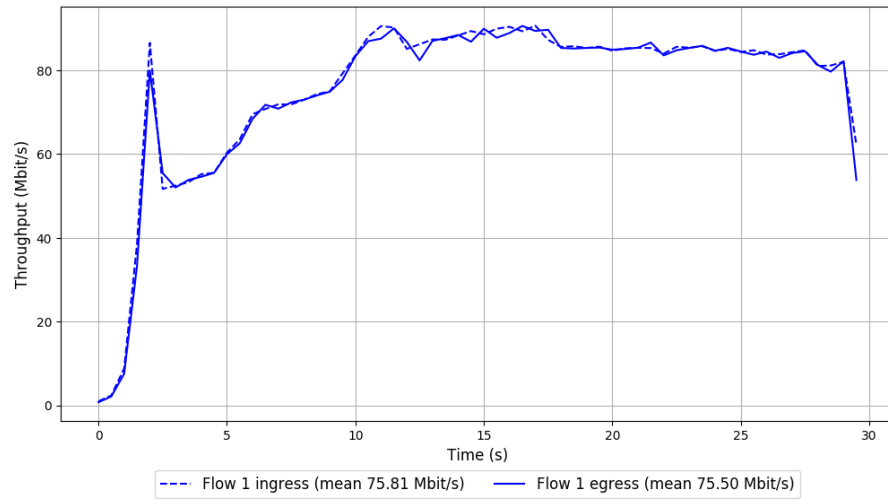


Run 3: Statistics of Vivace-LTE

Start at: 2018-03-20 11:43:58
End at: 2018-03-20 11:44:28
Local clock offset: 0.762 ms
Remote clock offset: -28.618 ms

Below is generated by plot.py at 2018-03-20 18:33:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 75.50 Mbit/s
95th percentile per-packet one-way delay: 84.854 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 75.50 Mbit/s
95th percentile per-packet one-way delay: 84.854 ms
Loss rate: 0.76%

Run 3: Report of Vivace-LTE — Data Link

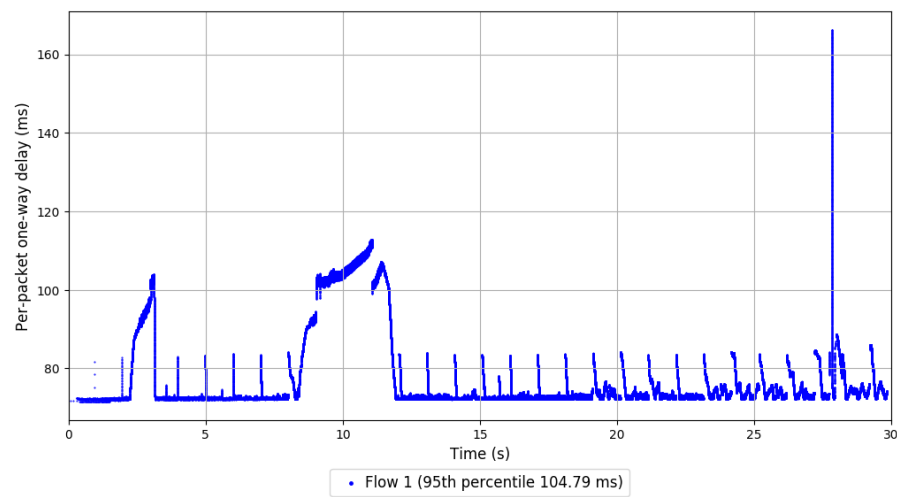
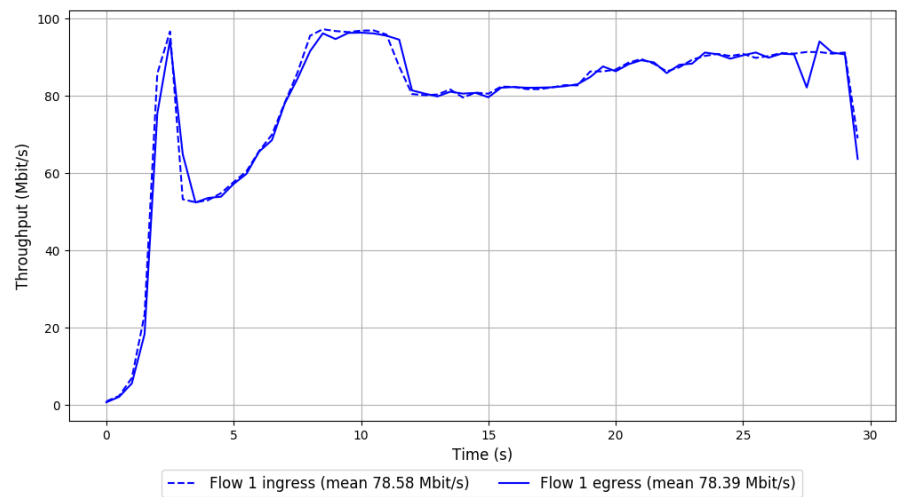


Run 4: Statistics of Vivace-LTE

Start at: 2018-03-20 12:06:12
End at: 2018-03-20 12:06:42
Local clock offset: 0.651 ms
Remote clock offset: -33.957 ms

Below is generated by plot.py at 2018-03-20 18:33:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 78.39 Mbit/s
95th percentile per-packet one-way delay: 104.792 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 78.39 Mbit/s
95th percentile per-packet one-way delay: 104.792 ms
Loss rate: 0.58%

Run 4: Report of Vivace-LTE — Data Link

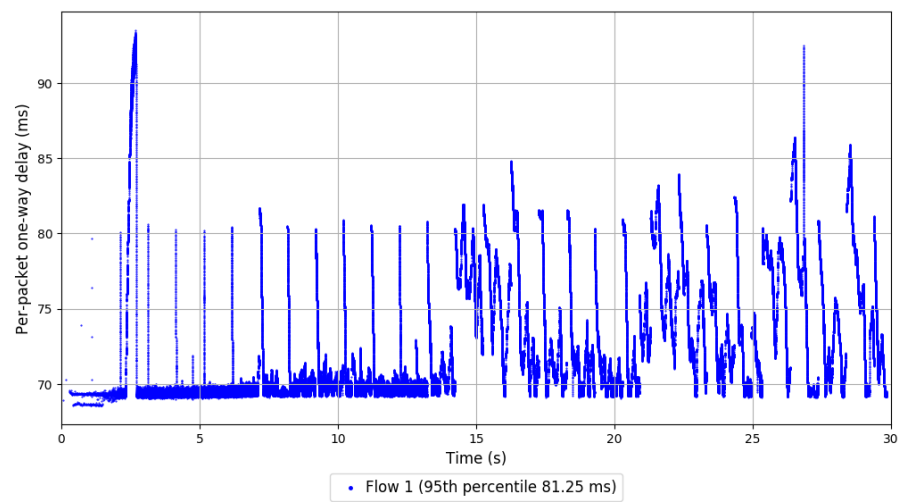
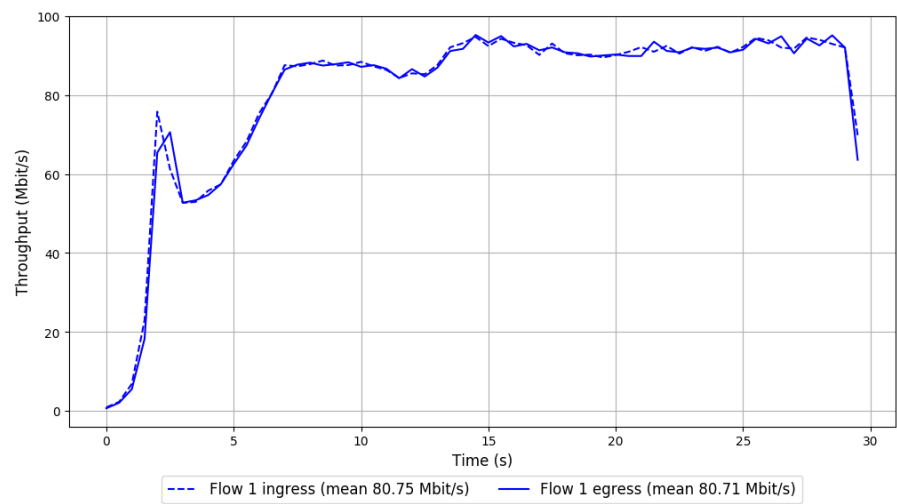


Run 5: Statistics of Vivace-LTE

Start at: 2018-03-20 12:27:59
End at: 2018-03-20 12:28:29
Local clock offset: -1.416 ms
Remote clock offset: -37.927 ms

Below is generated by plot.py at 2018-03-20 18:34:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 80.71 Mbit/s
95th percentile per-packet one-way delay: 81.249 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 80.71 Mbit/s
95th percentile per-packet one-way delay: 81.249 ms
Loss rate: 0.41%

Run 5: Report of Vivace-LTE — Data Link

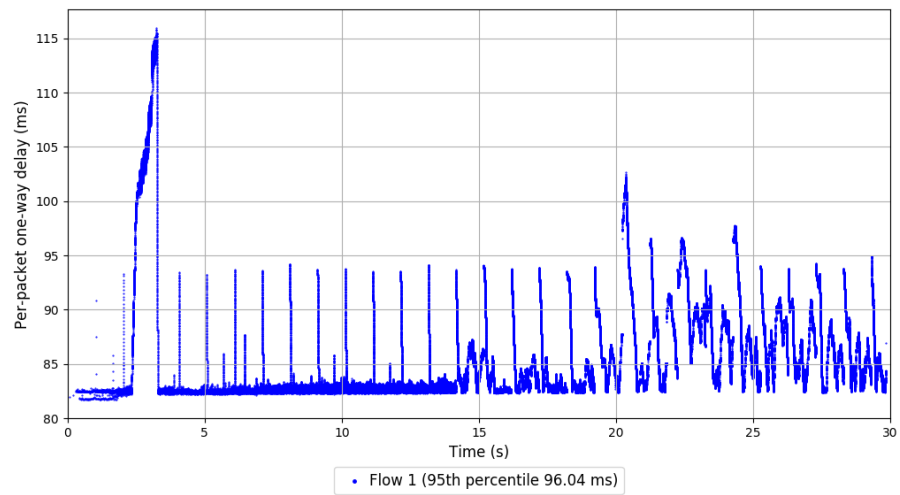
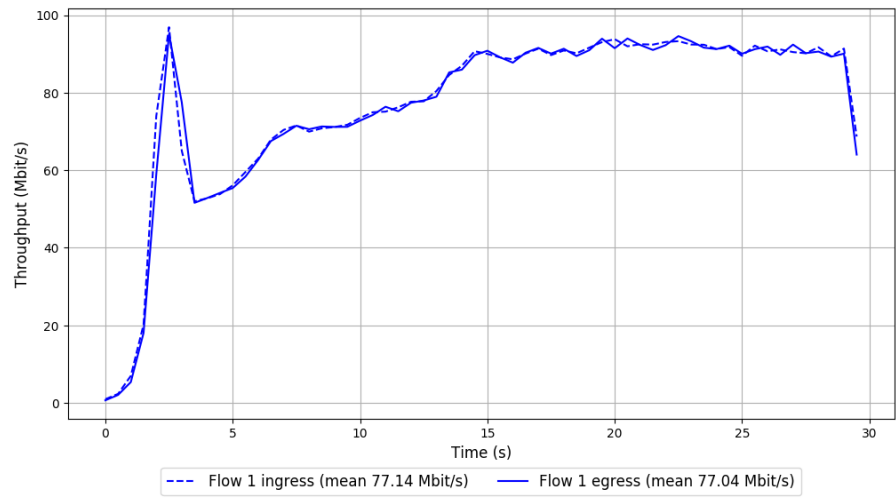


Run 6: Statistics of Vivace-LTE

Start at: 2018-03-20 12:50:52
End at: 2018-03-20 12:51:22
Local clock offset: 3.857 ms
Remote clock offset: -49.598 ms

Below is generated by plot.py at 2018-03-20 18:34:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.04 Mbit/s
95th percentile per-packet one-way delay: 96.041 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 77.04 Mbit/s
95th percentile per-packet one-way delay: 96.041 ms
Loss rate: 0.47%

Run 6: Report of Vivace-LTE — Data Link

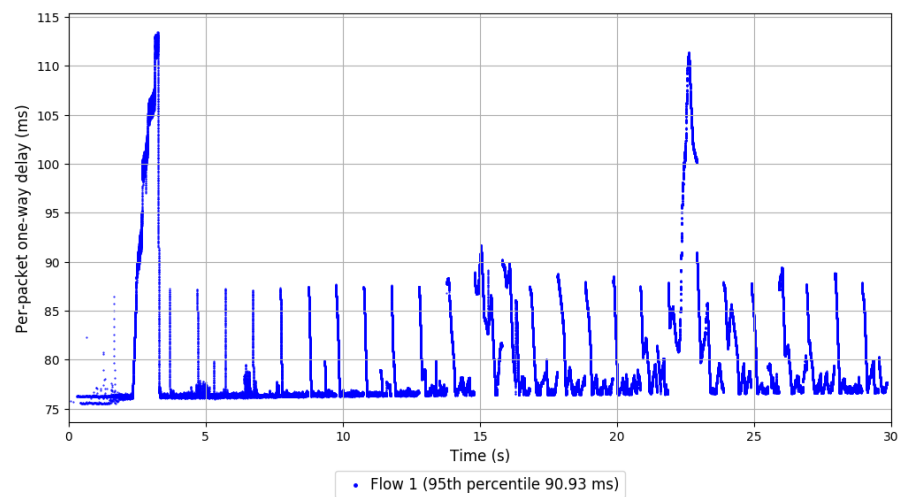
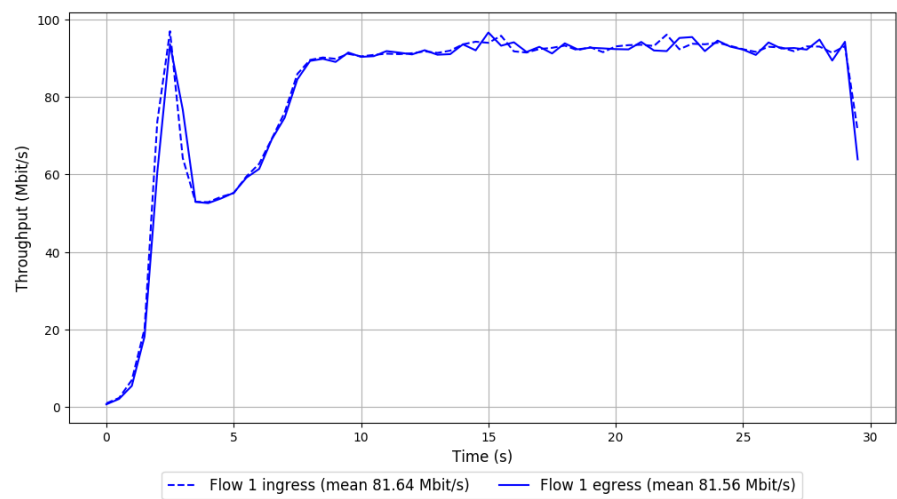


Run 7: Statistics of Vivace-LTE

Start at: 2018-03-20 13:12:45
End at: 2018-03-20 13:13:16
Local clock offset: -1.189 ms
Remote clock offset: -40.459 ms

Below is generated by plot.py at 2018-03-20 18:34:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 81.56 Mbit/s
95th percentile per-packet one-way delay: 90.926 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 81.56 Mbit/s
95th percentile per-packet one-way delay: 90.926 ms
Loss rate: 0.48%

Run 7: Report of Vivace-LTE — Data Link

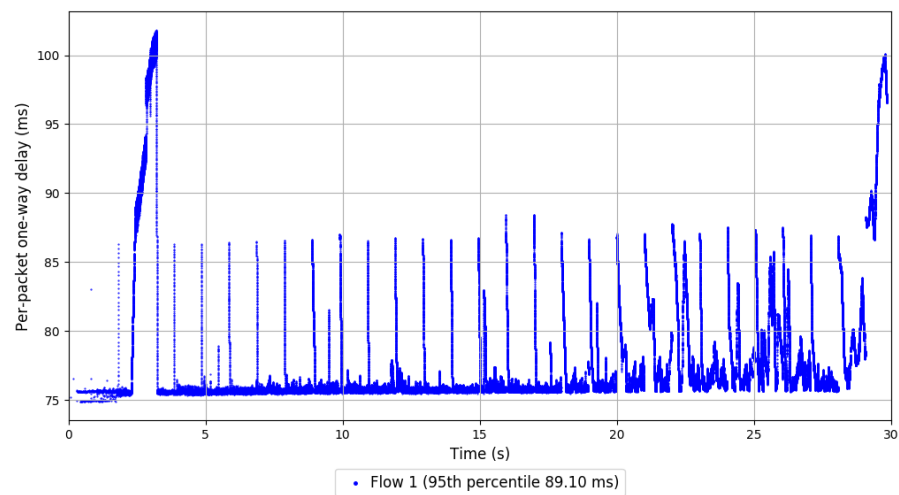
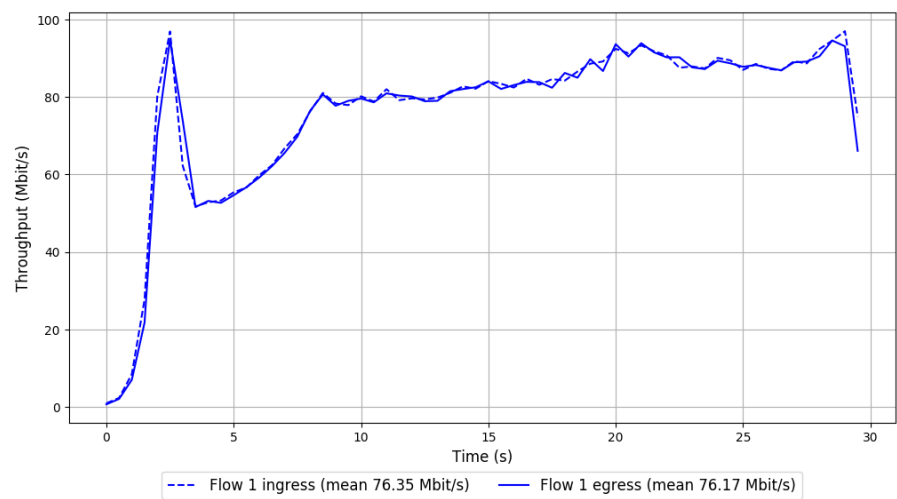


Run 8: Statistics of Vivace-LTE

Start at: 2018-03-20 13:34:50
End at: 2018-03-20 13:35:21
Local clock offset: -12.233 ms
Remote clock offset: -41.0 ms

Below is generated by plot.py at 2018-03-20 18:34:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.17 Mbit/s
95th percentile per-packet one-way delay: 89.100 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 76.17 Mbit/s
95th percentile per-packet one-way delay: 89.100 ms
Loss rate: 0.64%

Run 8: Report of Vivace-LTE — Data Link

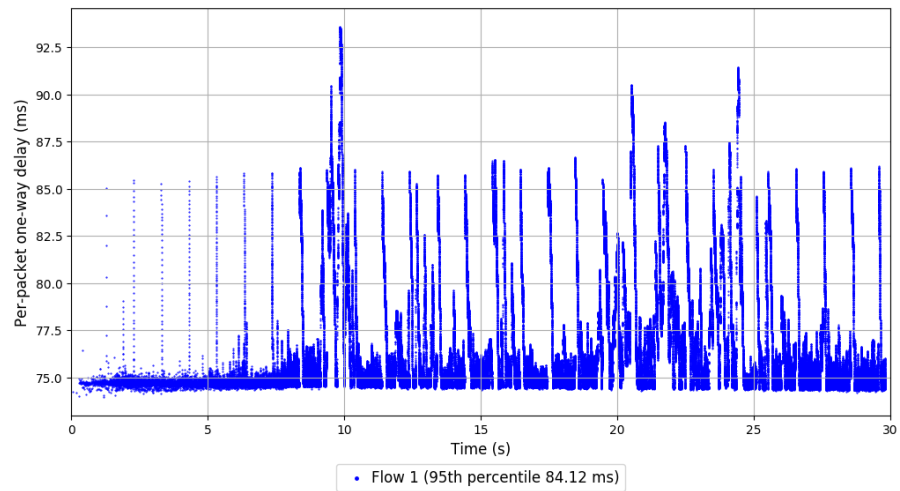
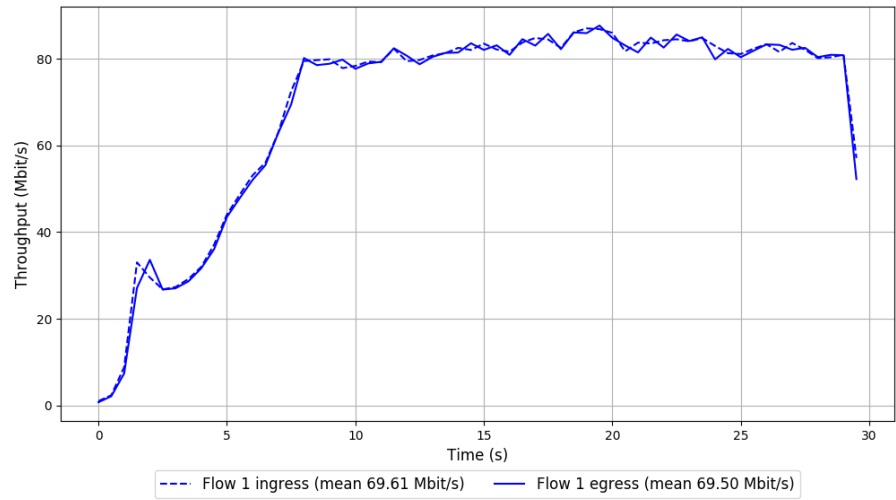


Run 9: Statistics of Vivace-LTE

Start at: 2018-03-20 13:57:31
End at: 2018-03-20 13:58:01
Local clock offset: 3.352 ms
Remote clock offset: -40.428 ms

Below is generated by plot.py at 2018-03-20 18:34:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 69.50 Mbit/s
95th percentile per-packet one-way delay: 84.124 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 69.50 Mbit/s
95th percentile per-packet one-way delay: 84.124 ms
Loss rate: 0.52%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-03-20 14:19:19

End at: 2018-03-20 14:19:49

Local clock offset: 8.126 ms

Remote clock offset: -27.261 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.67 Mbit/s

95th percentile per-packet one-way delay: 86.207 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 75.67 Mbit/s

95th percentile per-packet one-way delay: 86.207 ms

Loss rate: 0.67%

Run 10: Report of Vivace-LTE — Data Link

