

Pantheon Report

Generated at 2018-03-13 12:12:09 (UTC).

Data path: Stanford Ethernet (*remote*) → AWS California 1 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).

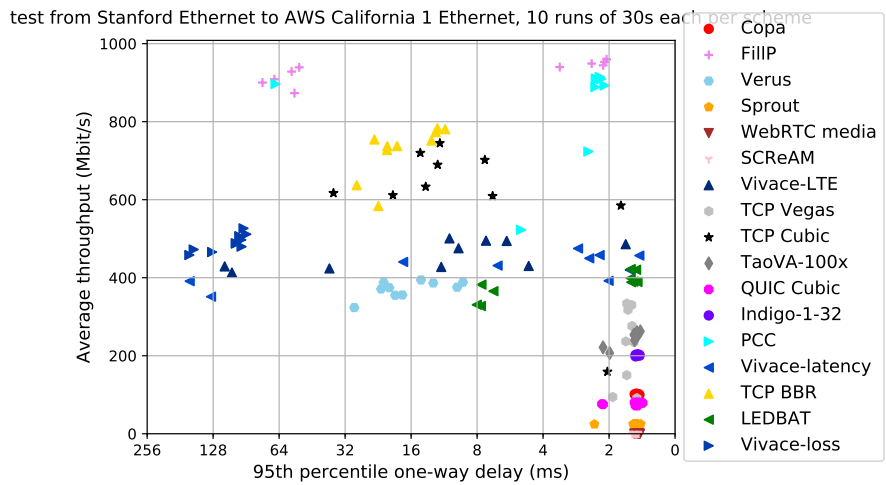
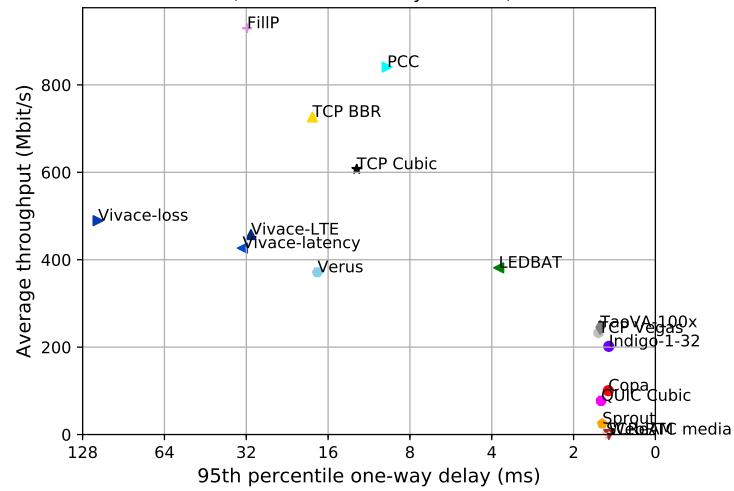
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

Git summary:

```
branch: master @ f12c42a2c63fdd9a862eefa0468859bf379b6623
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 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 @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from Stanford Ethernet to AWS California 1 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	10	726.69	18.27	0.10
TCP Cubic	10	607.16	12.56	0.07
LEDBAT	10	381.48	3.77	0.07
PCC	9	840.74	9.70	0.59
QUIC Cubic	10	77.21	1.33	0.07
SCReAM	10	0.22	1.20	0.09
WebRTC media	10	0.05	1.14	0.00
Sprout	10	24.83	1.30	0.17
TaoVA-100x	10	245.47	1.35	0.07
TCP Vegas	10	232.63	1.39	0.07
Verus	10	371.30	17.51	0.21
Copa	10	100.33	1.15	0.06
FillP	10	929.67	31.79	1.44
Indigo-1-32	10	201.74	1.14	0.06
Vivace-latency	10	426.57	33.05	0.81
Vivace-loss	10	489.38	112.28	4.11
Vivace-LTE	10	457.60	30.75	0.64

Run 1: Statistics of TCP BBR

Start at: 2018-03-13 01:12:57

End at: 2018-03-13 01:13:27

Local clock offset: 1.07 ms

Remote clock offset: -5.572 ms

Below is generated by plot.py at 2018-03-13 10:25:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 773.48 Mbit/s

95th percentile per-packet one-way delay: 12.362 ms

Loss rate: 0.10%

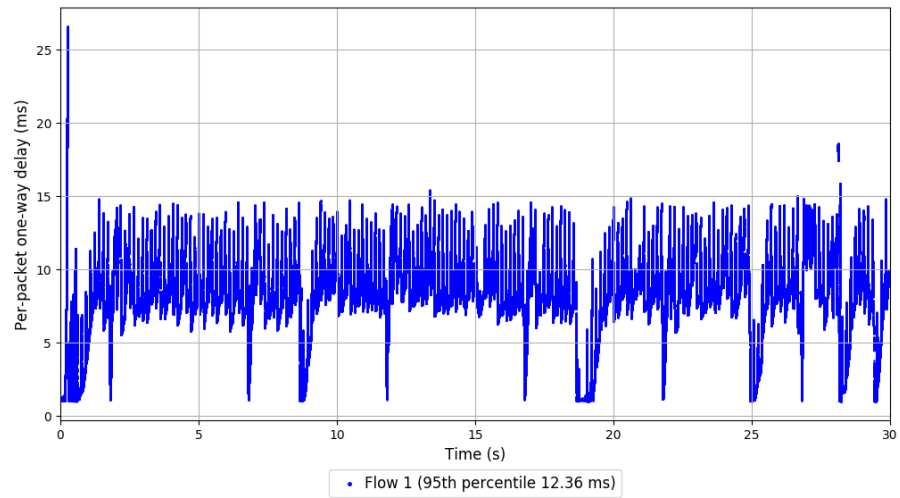
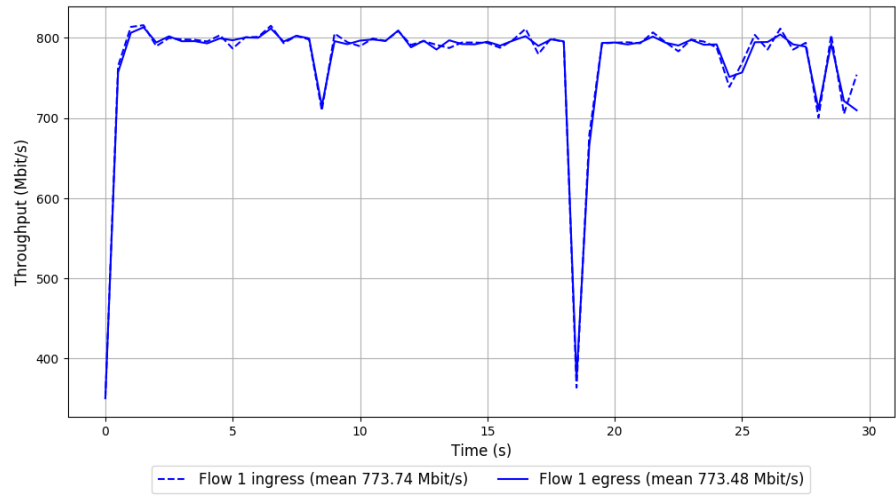
-- Flow 1:

Average throughput: 773.48 Mbit/s

95th percentile per-packet one-way delay: 12.362 ms

Loss rate: 0.10%

Run 1: Report of TCP BBR — Data Link

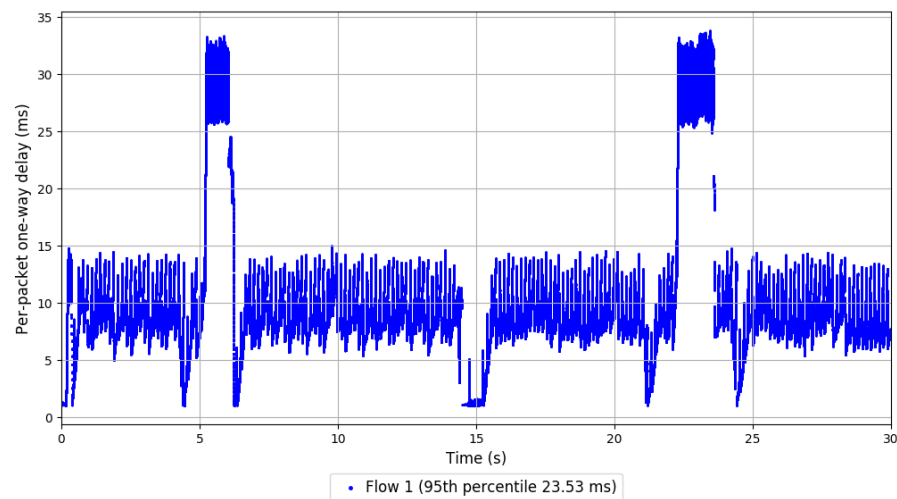
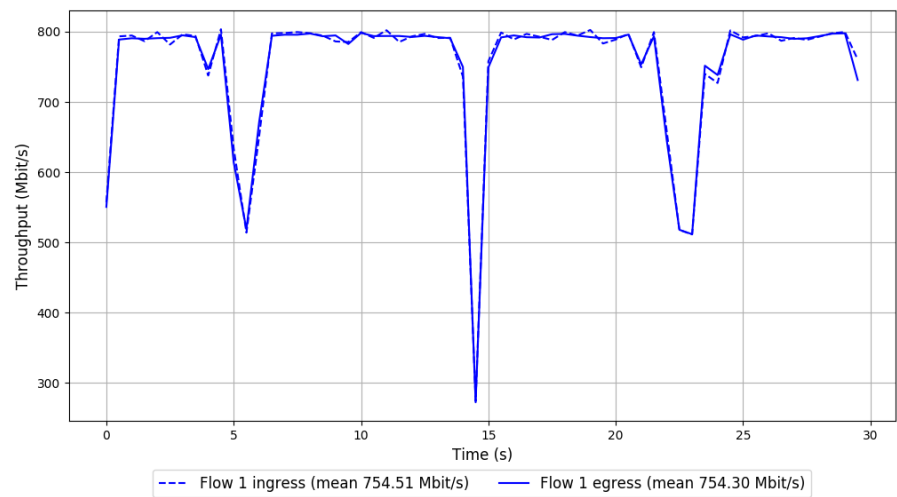


Run 2: Statistics of TCP BBR

Start at: 2018-03-13 01:40:51
End at: 2018-03-13 01:41:21
Local clock offset: 1.015 ms
Remote clock offset: -6.435 ms

Below is generated by plot.py at 2018-03-13 10:25:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 754.30 Mbit/s
95th percentile per-packet one-way delay: 23.526 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 754.30 Mbit/s
95th percentile per-packet one-way delay: 23.526 ms
Loss rate: 0.09%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-03-13 02:08:31

End at: 2018-03-13 02:09:01

Local clock offset: 0.784 ms

Remote clock offset: -5.206 ms

Below is generated by plot.py at 2018-03-13 10:25:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 737.47 Mbit/s

95th percentile per-packet one-way delay: 18.533 ms

Loss rate: 0.06%

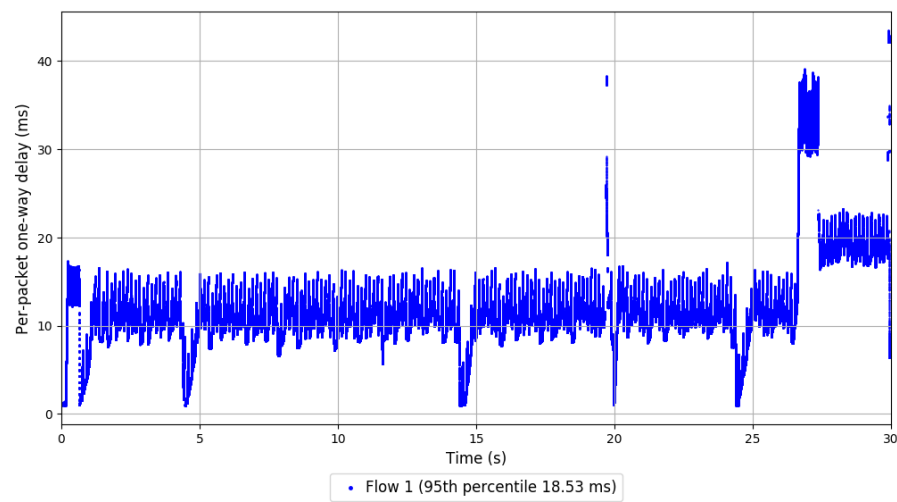
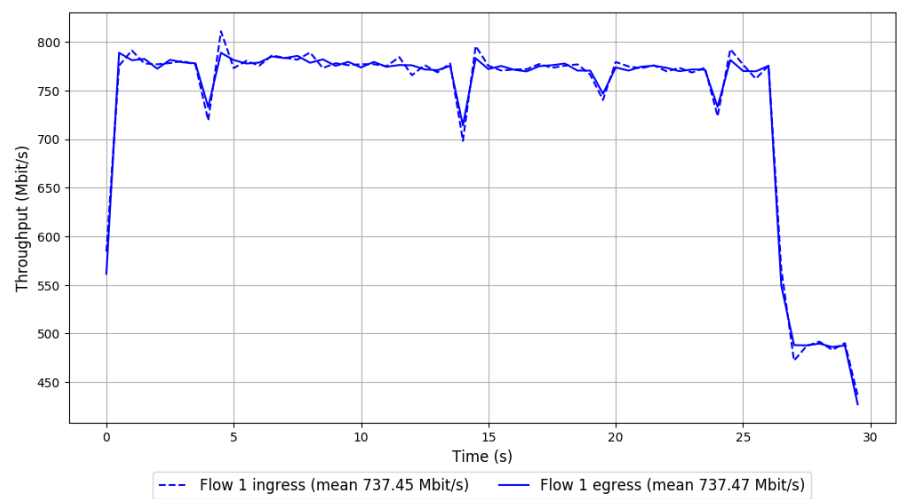
-- Flow 1:

Average throughput: 737.47 Mbit/s

95th percentile per-packet one-way delay: 18.533 ms

Loss rate: 0.06%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-03-13 02:36:42

End at: 2018-03-13 02:37:12

Local clock offset: 0.922 ms

Remote clock offset: -5.351 ms

Below is generated by plot.py at 2018-03-13 10:25:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 583.97 Mbit/s

95th percentile per-packet one-way delay: 22.570 ms

Loss rate: 0.14%

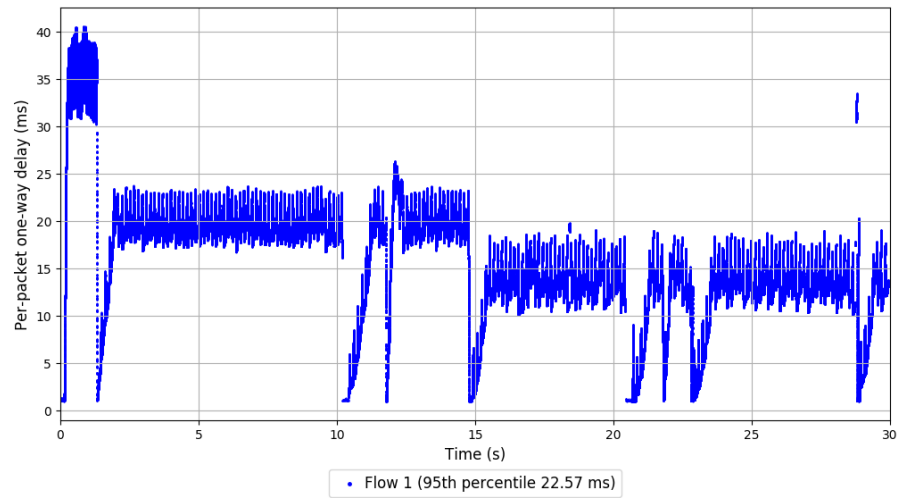
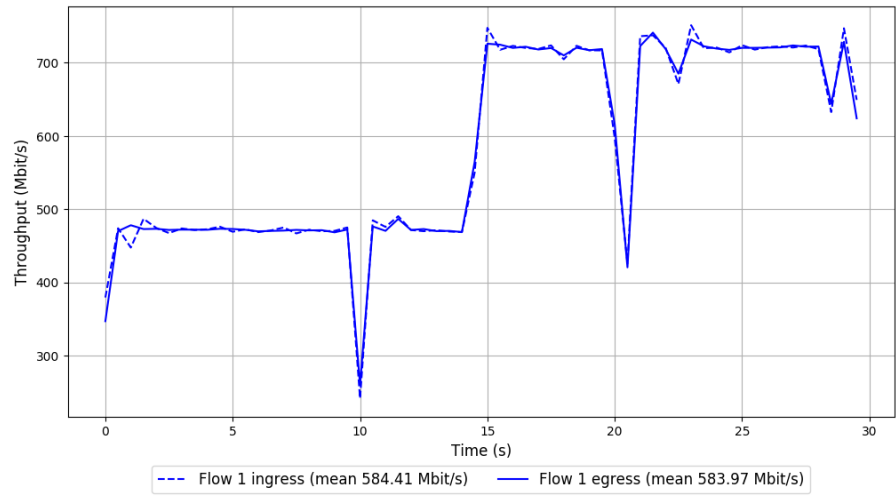
-- Flow 1:

Average throughput: 583.97 Mbit/s

95th percentile per-packet one-way delay: 22.570 ms

Loss rate: 0.14%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-03-13 03:04:24

End at: 2018-03-13 03:04:54

Local clock offset: 1.062 ms

Remote clock offset: -6.167 ms

Below is generated by plot.py at 2018-03-13 10:25:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 780.83 Mbit/s

95th percentile per-packet one-way delay: 11.189 ms

Loss rate: 0.09%

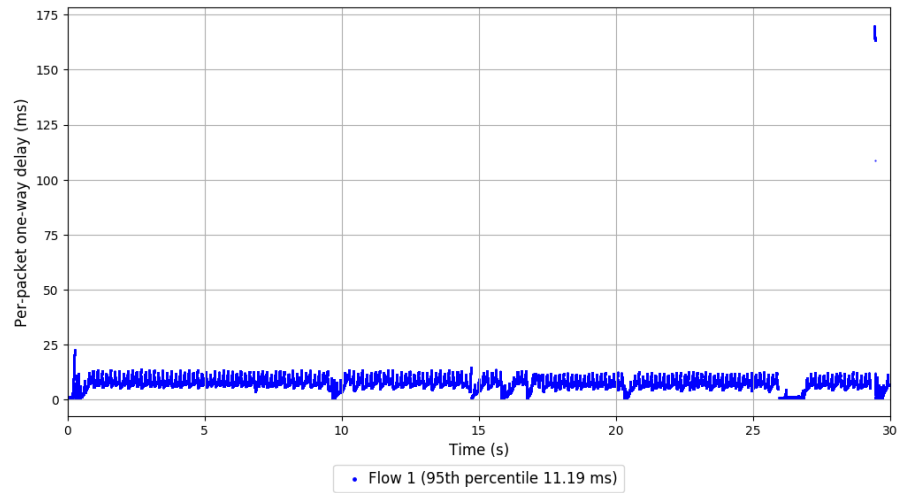
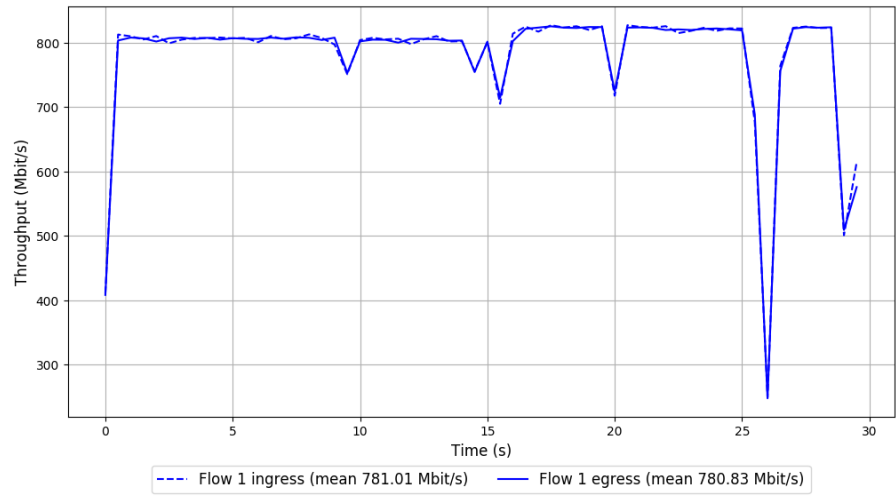
-- Flow 1:

Average throughput: 780.83 Mbit/s

95th percentile per-packet one-way delay: 11.189 ms

Loss rate: 0.09%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-03-13 03:32:05

End at: 2018-03-13 03:32:35

Local clock offset: 1.102 ms

Remote clock offset: -6.369 ms

Below is generated by plot.py at 2018-03-13 10:25:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 637.10 Mbit/s

95th percentile per-packet one-way delay: 28.324 ms

Loss rate: 0.10%

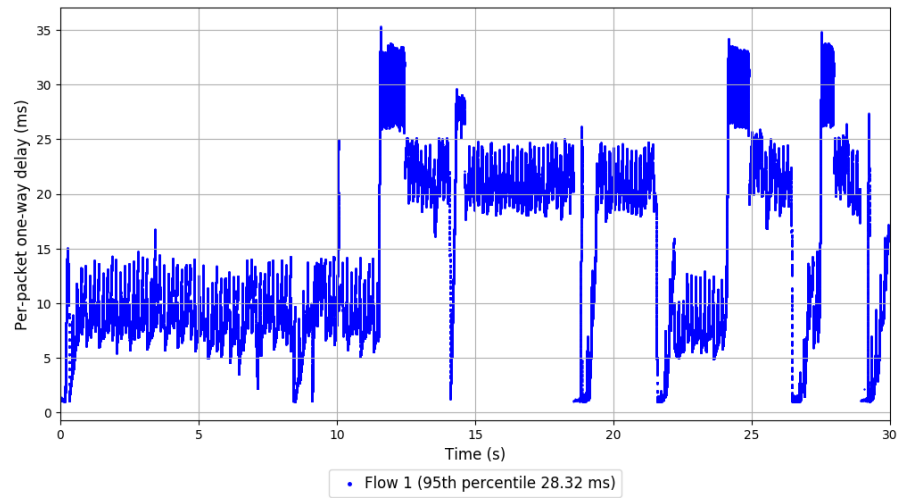
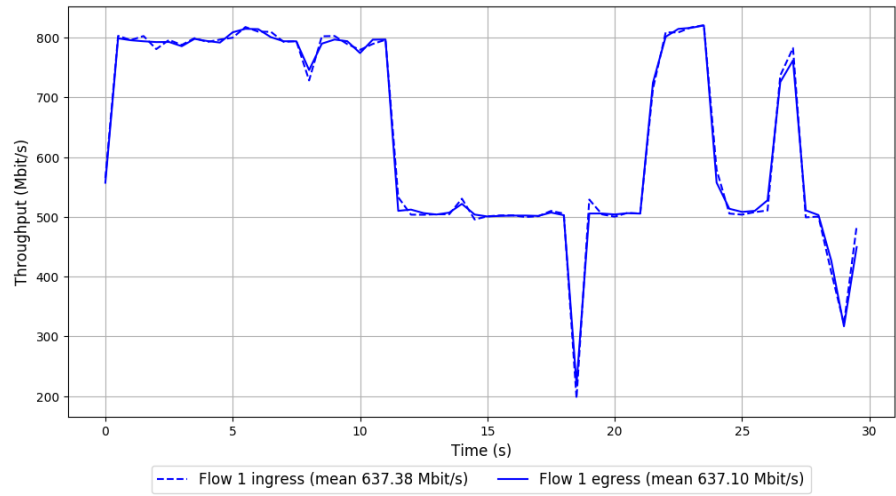
-- Flow 1:

Average throughput: 637.10 Mbit/s

95th percentile per-packet one-way delay: 28.324 ms

Loss rate: 0.10%

Run 6: Report of TCP BBR — Data Link

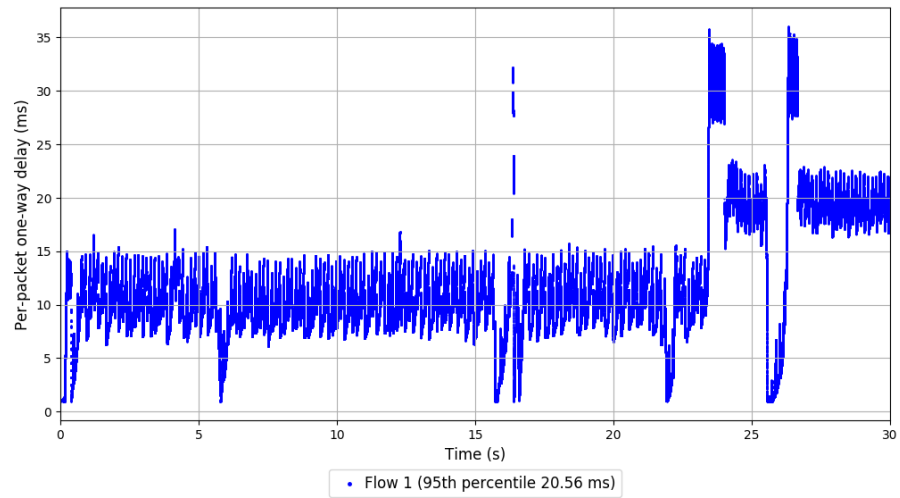
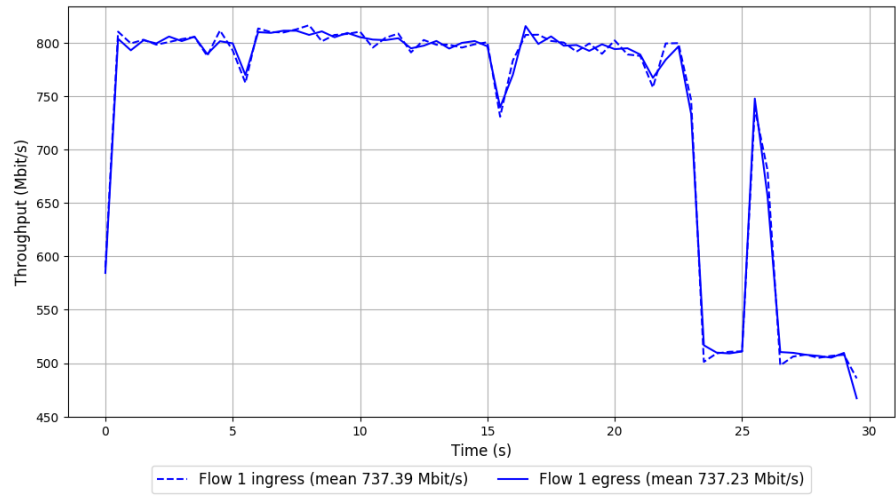


Run 7: Statistics of TCP BBR

Start at: 2018-03-13 03:59:57
End at: 2018-03-13 04:00:27
Local clock offset: 1.209 ms
Remote clock offset: -5.959 ms

Below is generated by plot.py at 2018-03-13 10:25:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 737.23 Mbit/s
95th percentile per-packet one-way delay: 20.561 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 737.23 Mbit/s
95th percentile per-packet one-way delay: 20.561 ms
Loss rate: 0.08%

Run 7: Report of TCP BBR — Data Link

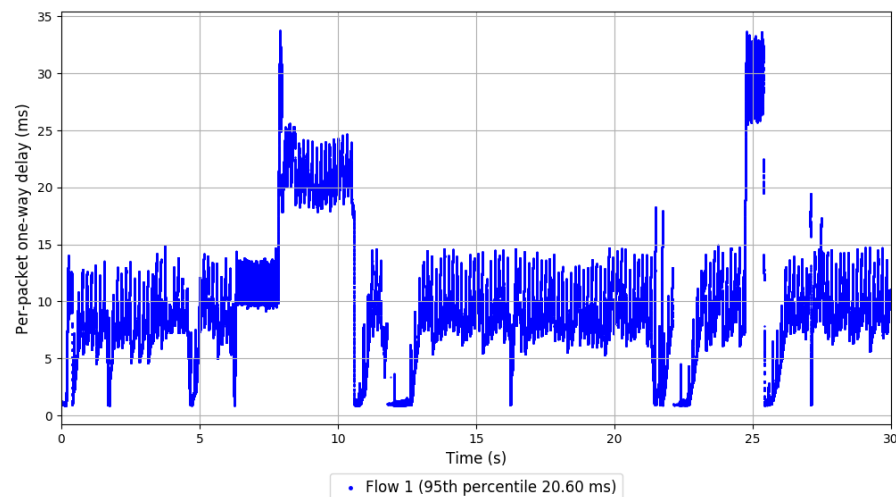
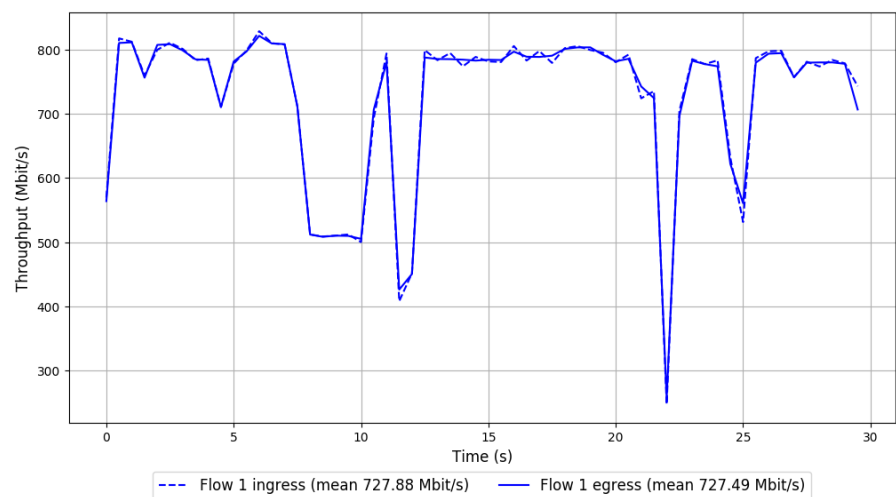


Run 8: Statistics of TCP BBR

Start at: 2018-03-13 04:27:51
End at: 2018-03-13 04:28:21
Local clock offset: 1.299 ms
Remote clock offset: -5.636 ms

Below is generated by plot.py at 2018-03-13 10:25:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 727.49 Mbit/s
95th percentile per-packet one-way delay: 20.597 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 727.49 Mbit/s
95th percentile per-packet one-way delay: 20.597 ms
Loss rate: 0.12%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-03-13 04:55:44

End at: 2018-03-13 04:56:14

Local clock offset: 1.359 ms

Remote clock offset: -5.629 ms

Below is generated by plot.py at 2018-03-13 10:33:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 751.71 Mbit/s

95th percentile per-packet one-way delay: 12.924 ms

Loss rate: 0.10%

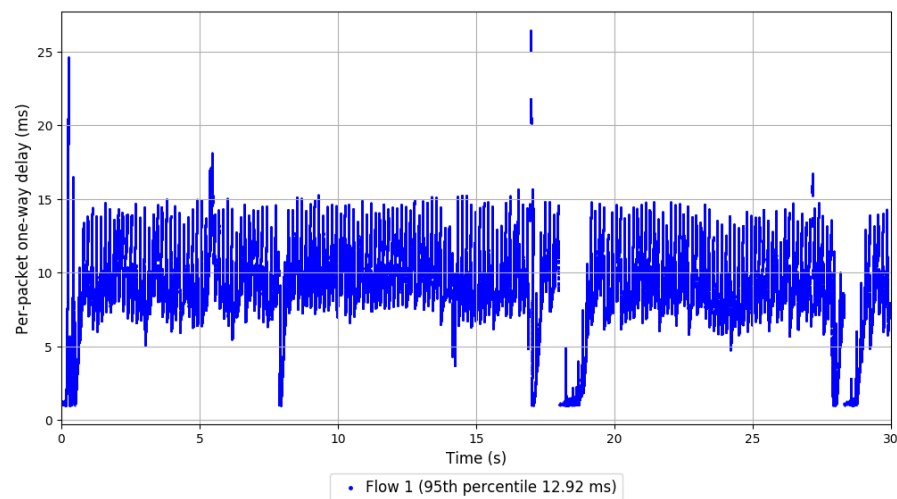
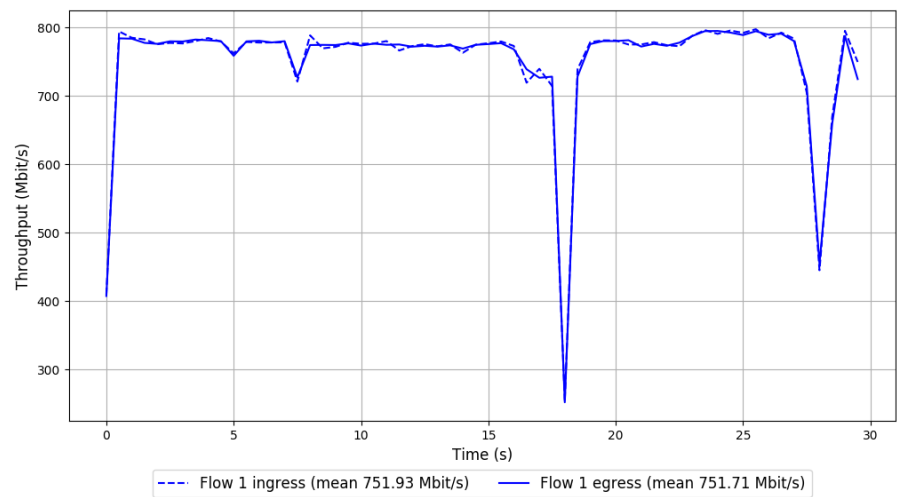
-- Flow 1:

Average throughput: 751.71 Mbit/s

95th percentile per-packet one-way delay: 12.924 ms

Loss rate: 0.10%

Run 9: Report of TCP BBR — Data Link

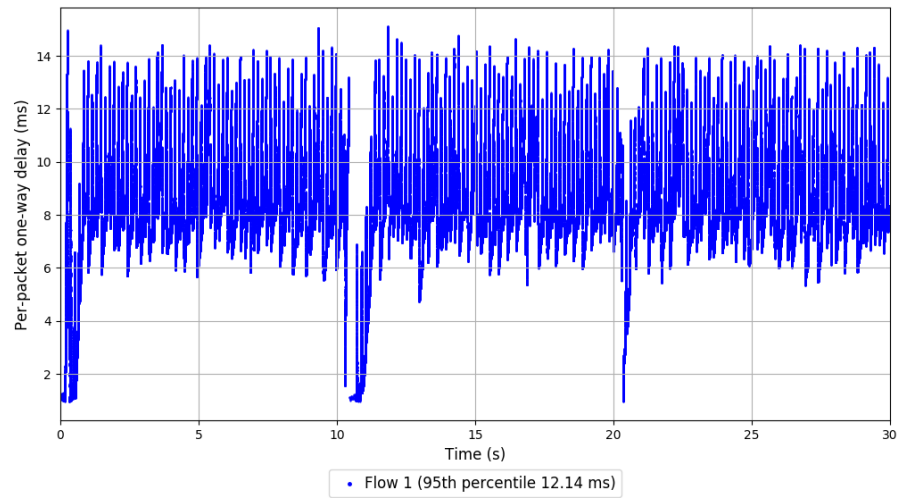
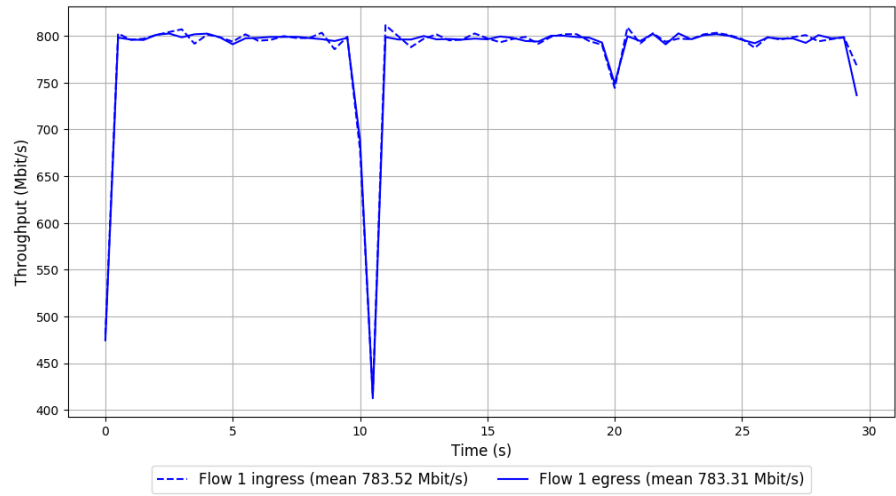


Run 10: Statistics of TCP BBR

Start at: 2018-03-13 05:23:21
End at: 2018-03-13 05:23:51
Local clock offset: 1.957 ms
Remote clock offset: -5.214 ms

Below is generated by plot.py at 2018-03-13 10:34:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 783.31 Mbit/s
95th percentile per-packet one-way delay: 12.145 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 783.31 Mbit/s
95th percentile per-packet one-way delay: 12.145 ms
Loss rate: 0.09%

Run 10: Report of TCP BBR — Data Link

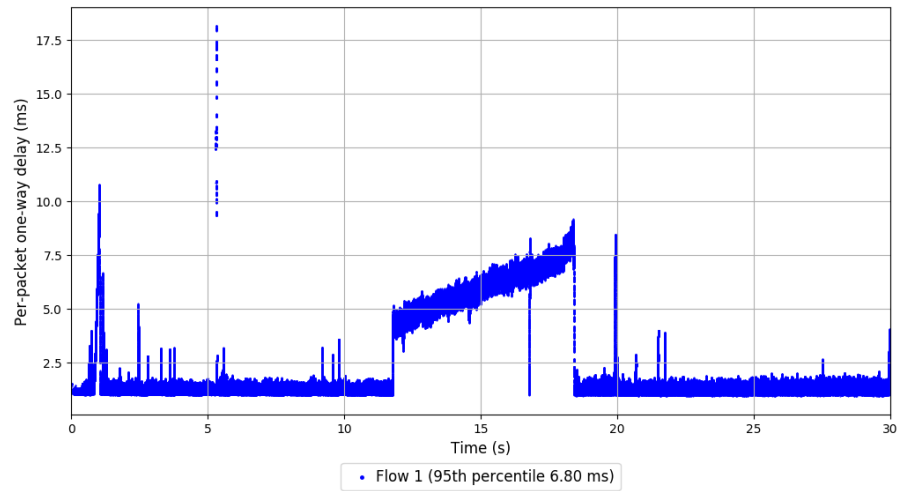
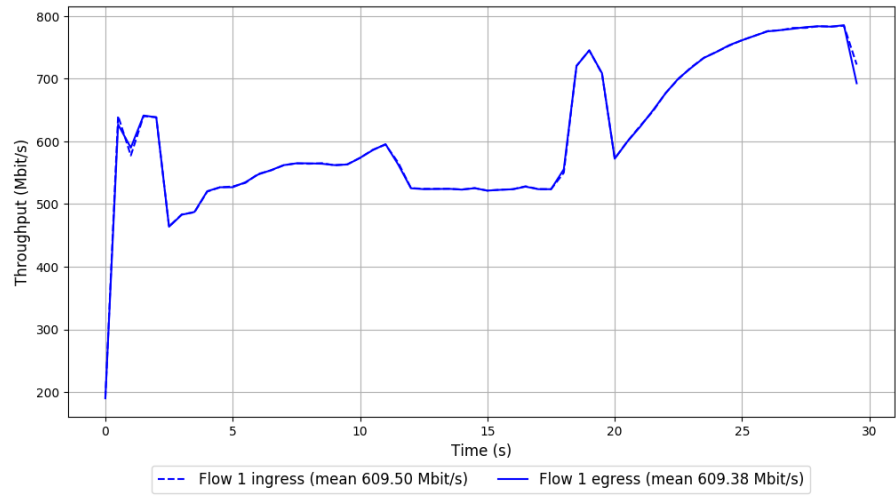


Run 1: Statistics of TCP Cubic

Start at: 2018-03-13 01:11:16
End at: 2018-03-13 01:11:46
Local clock offset: 1.034 ms
Remote clock offset: -5.436 ms

Below is generated by plot.py at 2018-03-13 10:34:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 609.38 Mbit/s
95th percentile per-packet one-way delay: 6.797 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 609.38 Mbit/s
95th percentile per-packet one-way delay: 6.797 ms
Loss rate: 0.09%

Run 1: Report of TCP Cubic — Data Link

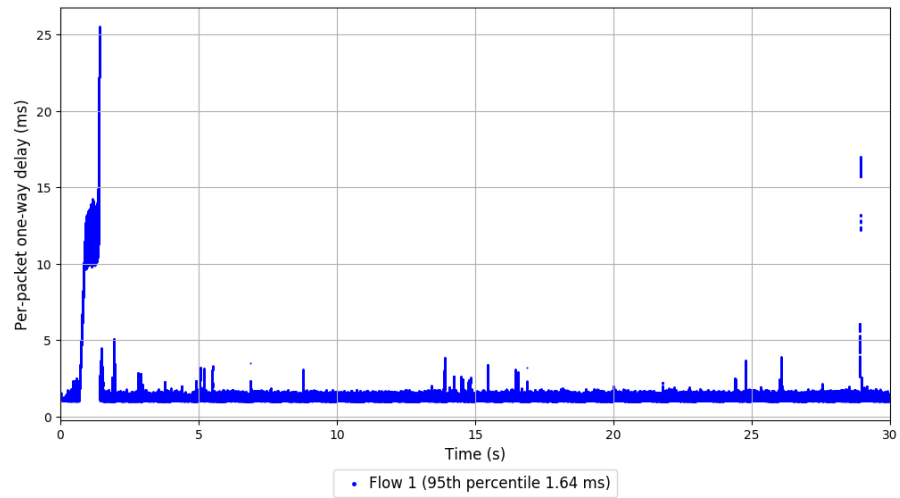
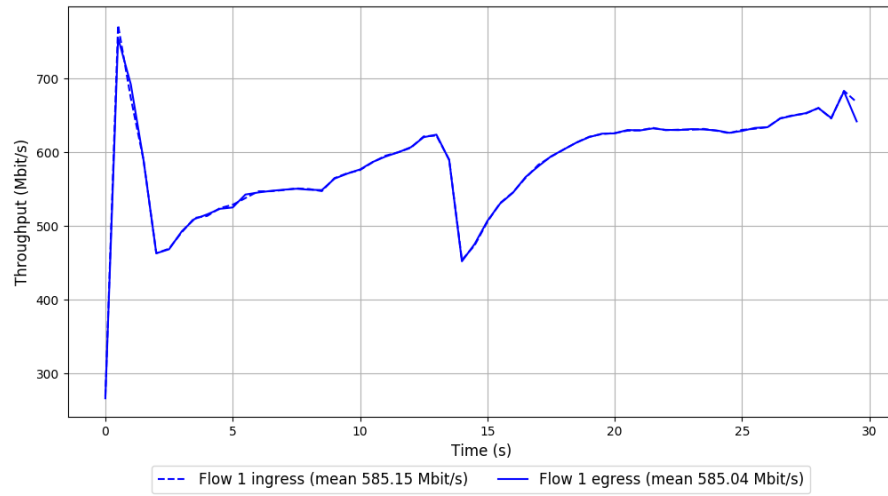


Run 2: Statistics of TCP Cubic

Start at: 2018-03-13 01:39:11
End at: 2018-03-13 01:39:41
Local clock offset: 1.074 ms
Remote clock offset: -6.401 ms

Below is generated by plot.py at 2018-03-13 10:34:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 585.04 Mbit/s
95th percentile per-packet one-way delay: 1.641 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 585.04 Mbit/s
95th percentile per-packet one-way delay: 1.641 ms
Loss rate: 0.08%

Run 2: Report of TCP Cubic — Data Link

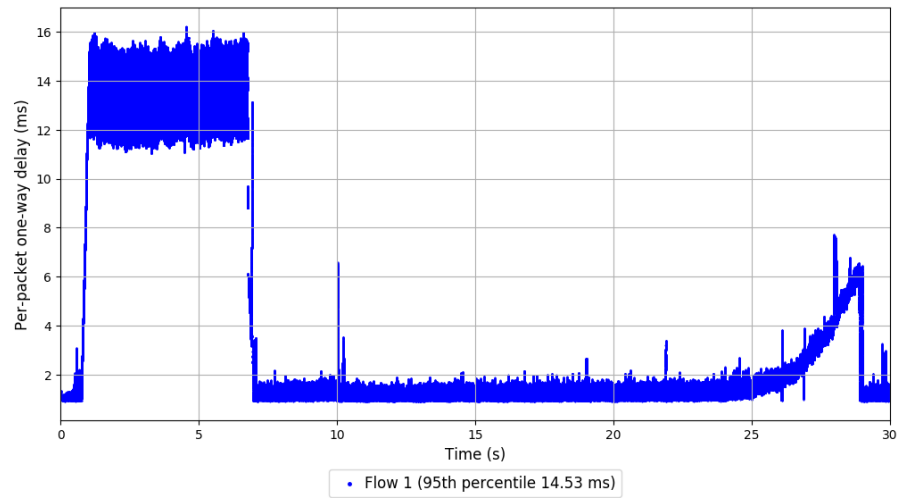
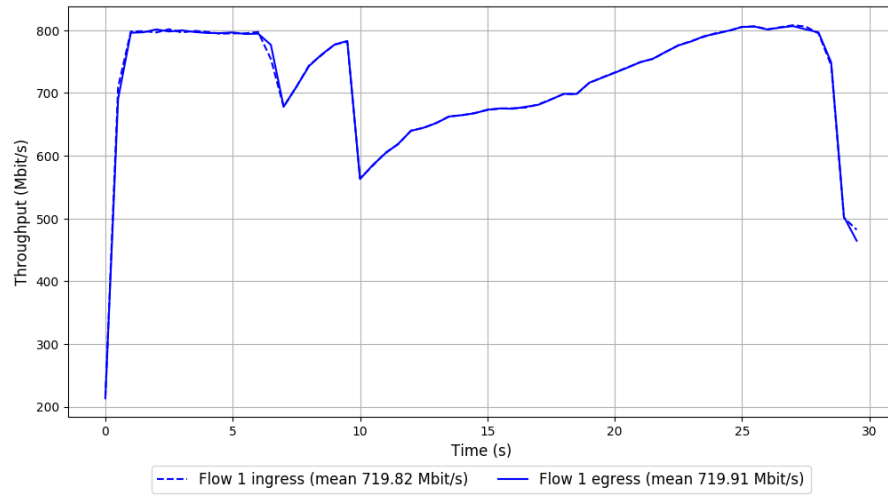


Run 3: Statistics of TCP Cubic

Start at: 2018-03-13 02:06:46
End at: 2018-03-13 02:07:16
Local clock offset: 0.704 ms
Remote clock offset: -5.293 ms

Below is generated by plot.py at 2018-03-13 10:35:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 719.91 Mbit/s
95th percentile per-packet one-way delay: 14.525 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 719.91 Mbit/s
95th percentile per-packet one-way delay: 14.525 ms
Loss rate: 0.05%

Run 3: Report of TCP Cubic — Data Link

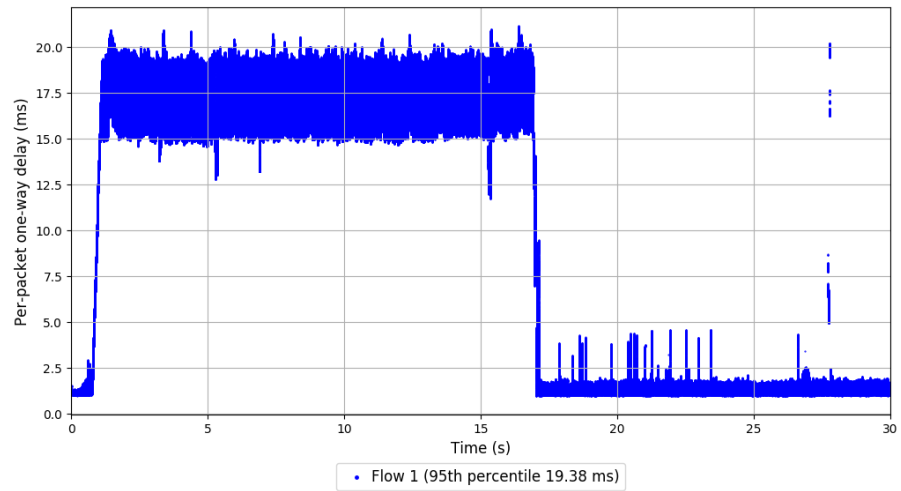
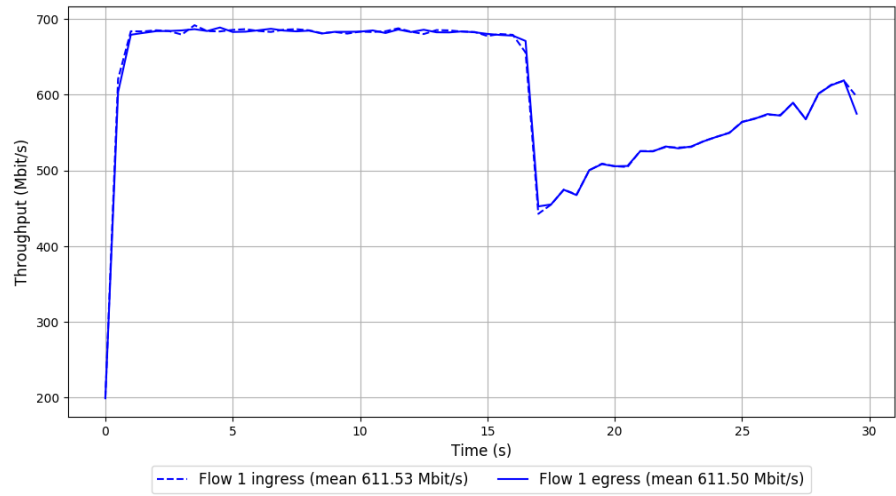


Run 4: Statistics of TCP Cubic

Start at: 2018-03-13 02:34:59
End at: 2018-03-13 02:35:29
Local clock offset: 1.007 ms
Remote clock offset: -5.349 ms

Below is generated by plot.py at 2018-03-13 10:35:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 611.50 Mbit/s
95th percentile per-packet one-way delay: 19.376 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 611.50 Mbit/s
95th percentile per-packet one-way delay: 19.376 ms
Loss rate: 0.07%

Run 4: Report of TCP Cubic — Data Link

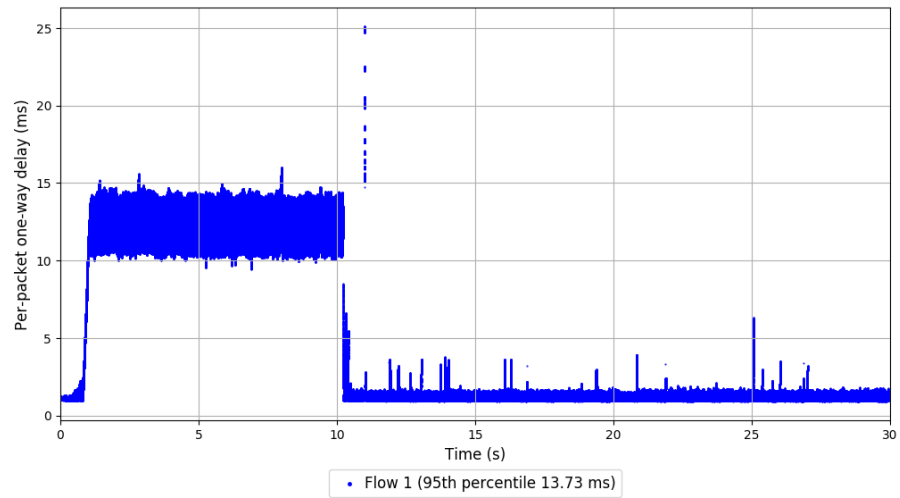
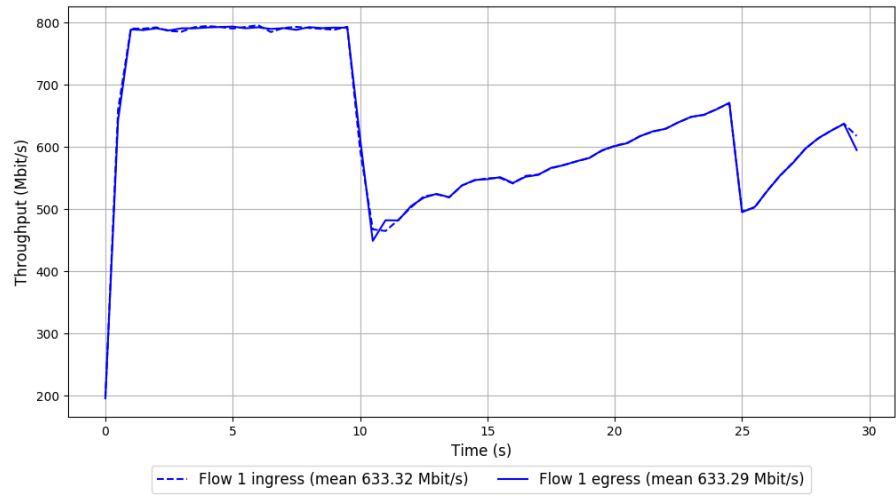


Run 5: Statistics of TCP Cubic

Start at: 2018-03-13 03:02:44
End at: 2018-03-13 03:03:14
Local clock offset: 1.07 ms
Remote clock offset: -6.148 ms

Below is generated by plot.py at 2018-03-13 10:35:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 633.29 Mbit/s
95th percentile per-packet one-way delay: 13.726 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 633.29 Mbit/s
95th percentile per-packet one-way delay: 13.726 ms
Loss rate: 0.06%

Run 5: Report of TCP Cubic — Data Link

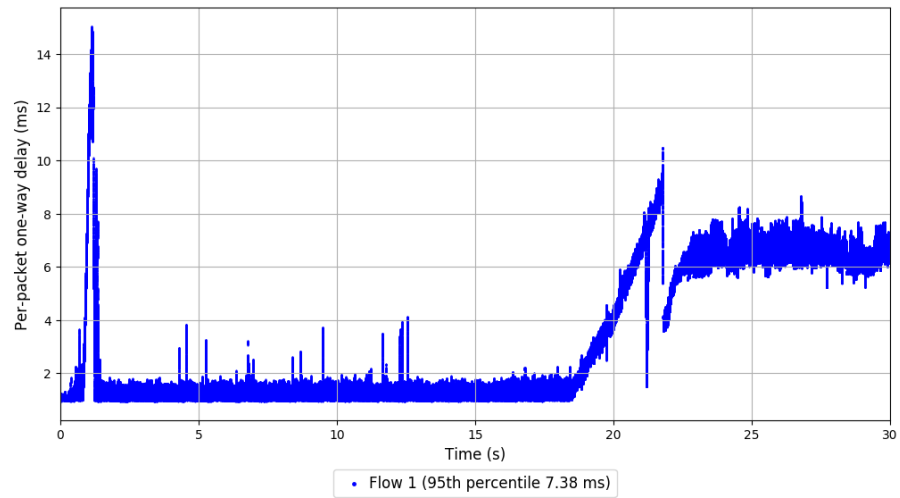
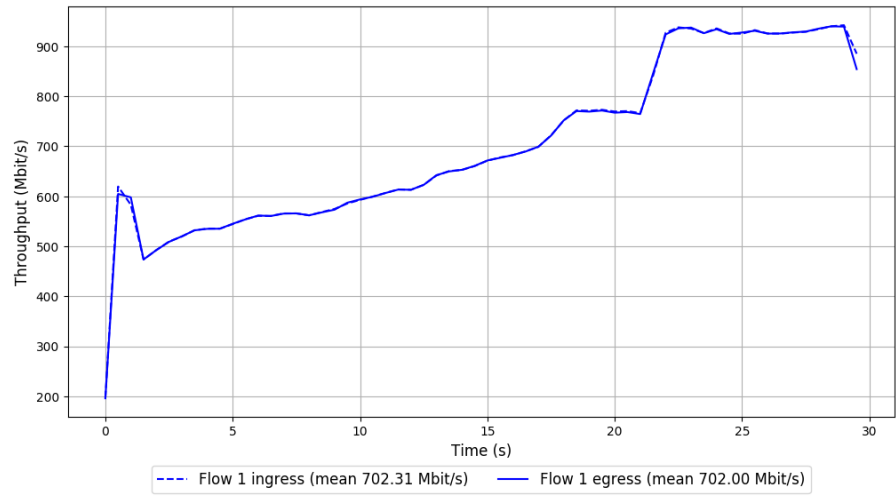


Run 6: Statistics of TCP Cubic

Start at: 2018-03-13 03:30:22
End at: 2018-03-13 03:30:52
Local clock offset: 1.091 ms
Remote clock offset: -6.367 ms

Below is generated by plot.py at 2018-03-13 10:35:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 702.00 Mbit/s
95th percentile per-packet one-way delay: 7.376 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 702.00 Mbit/s
95th percentile per-packet one-way delay: 7.376 ms
Loss rate: 0.11%

Run 6: Report of TCP Cubic — Data Link

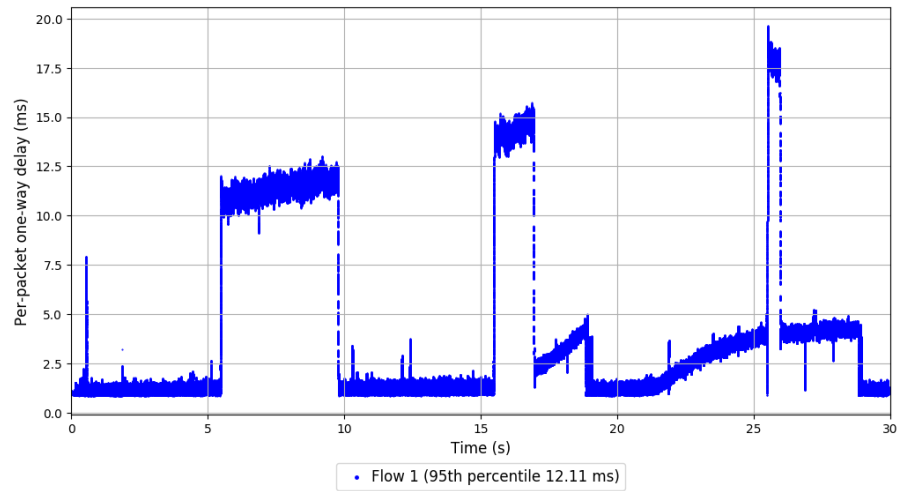
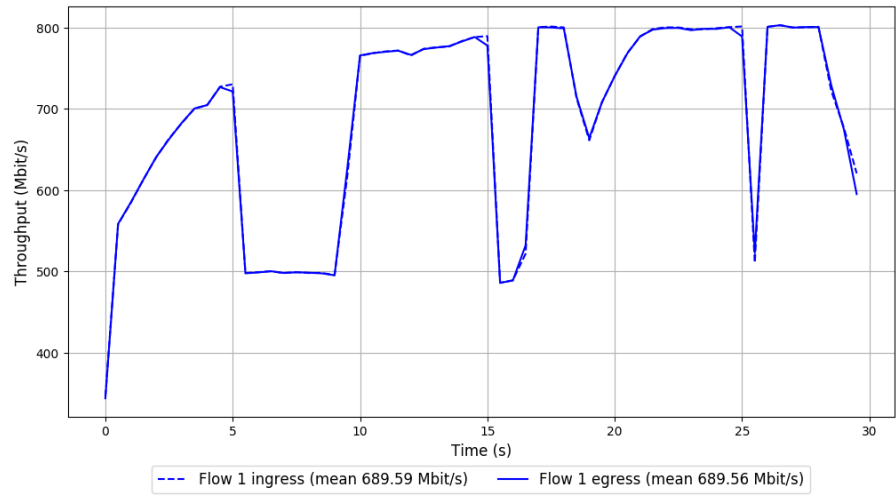


Run 7: Statistics of TCP Cubic

Start at: 2018-03-13 03:58:14
End at: 2018-03-13 03:58:44
Local clock offset: 1.108 ms
Remote clock offset: -5.959 ms

Below is generated by plot.py at 2018-03-13 10:42:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 689.56 Mbit/s
95th percentile per-packet one-way delay: 12.110 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 689.56 Mbit/s
95th percentile per-packet one-way delay: 12.110 ms
Loss rate: 0.07%

Run 7: Report of TCP Cubic — Data Link

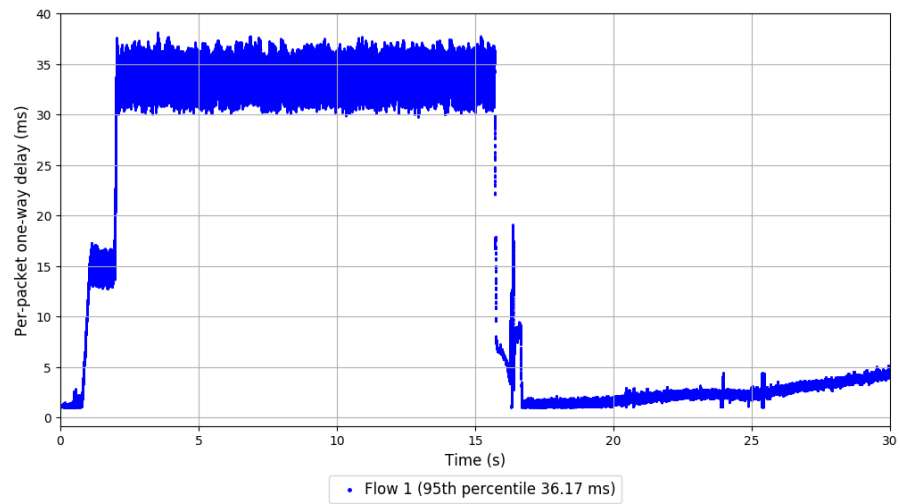
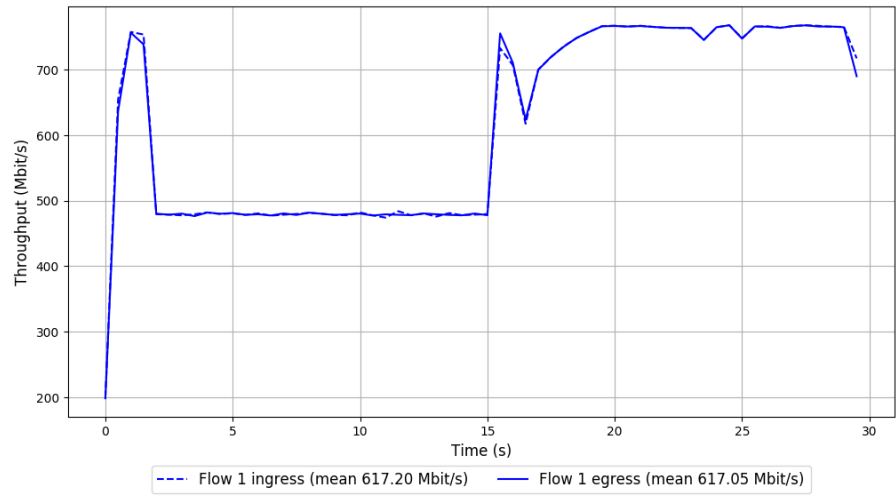


Run 8: Statistics of TCP Cubic

Start at: 2018-03-13 04:26:09
End at: 2018-03-13 04:26:39
Local clock offset: 1.326 ms
Remote clock offset: -5.743 ms

Below is generated by plot.py at 2018-03-13 10:42:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 617.05 Mbit/s
95th percentile per-packet one-way delay: 36.172 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 617.05 Mbit/s
95th percentile per-packet one-way delay: 36.172 ms
Loss rate: 0.09%

Run 8: Report of TCP Cubic — Data Link

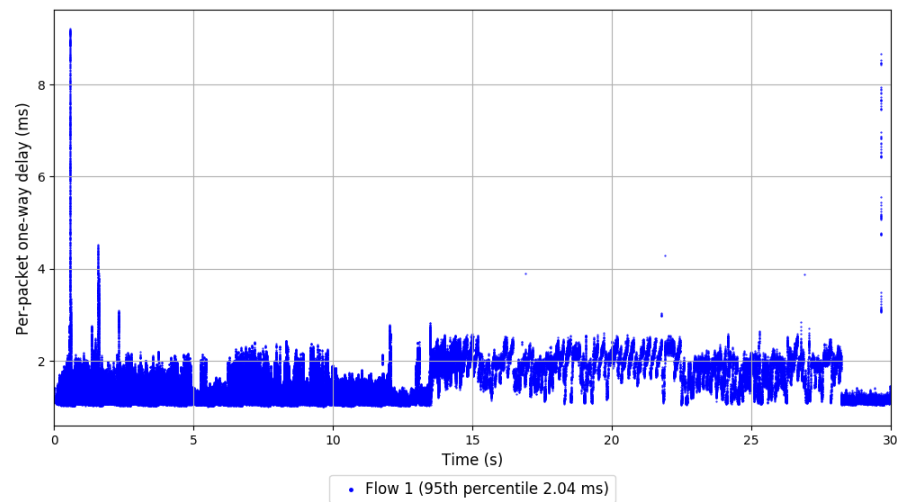
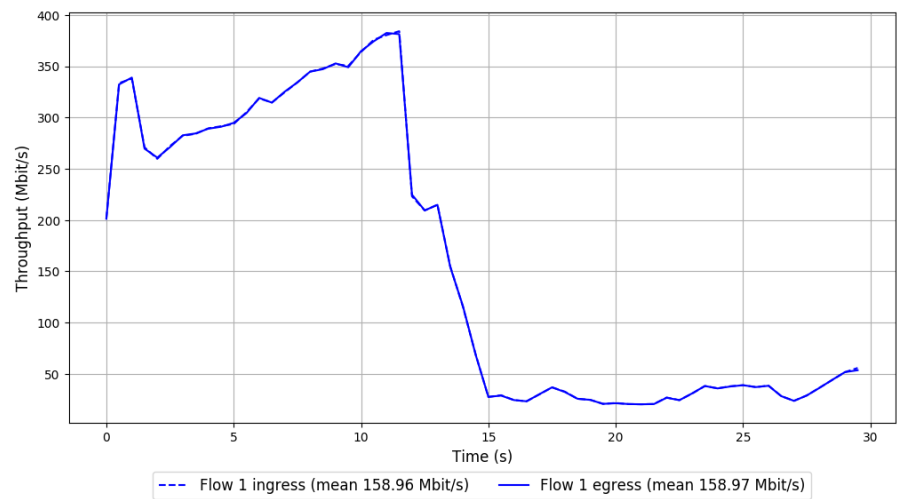


Run 9: Statistics of TCP Cubic

Start at: 2018-03-13 04:54:20
End at: 2018-03-13 04:54:50
Local clock offset: 1.375 ms
Remote clock offset: -5.645 ms

Below is generated by plot.py at 2018-03-13 10:42:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 158.97 Mbit/s
95th percentile per-packet one-way delay: 2.035 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 158.97 Mbit/s
95th percentile per-packet one-way delay: 2.035 ms
Loss rate: 0.06%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-03-13 05:21:35

End at: 2018-03-13 05:22:05

Local clock offset: 1.864 ms

Remote clock offset: -5.2 ms

Below is generated by plot.py at 2018-03-13 10:44:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 744.90 Mbit/s

95th percentile per-packet one-way delay: 11.829 ms

Loss rate: 0.07%

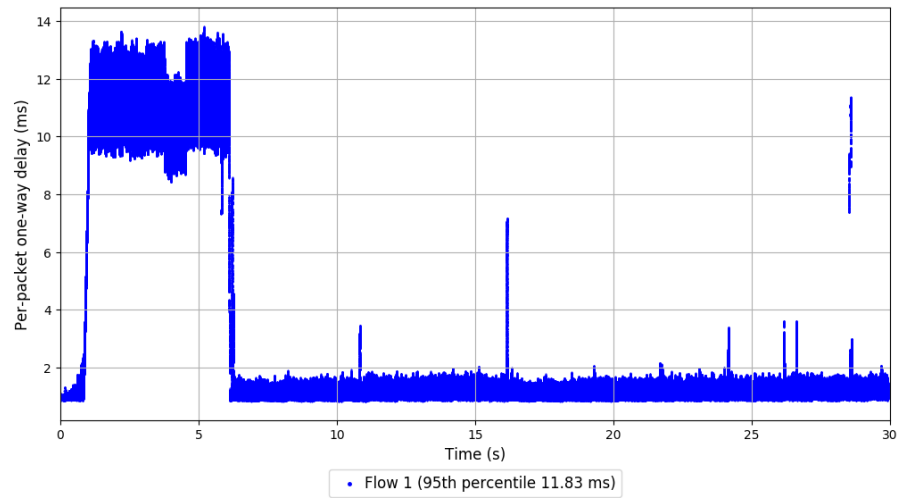
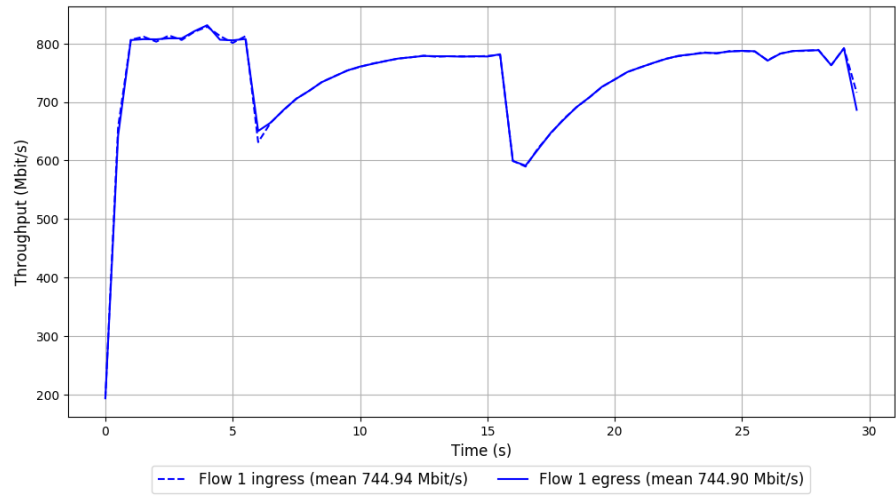
-- Flow 1:

Average throughput: 744.90 Mbit/s

95th percentile per-packet one-way delay: 11.829 ms

Loss rate: 0.07%

Run 10: Report of TCP Cubic — Data Link

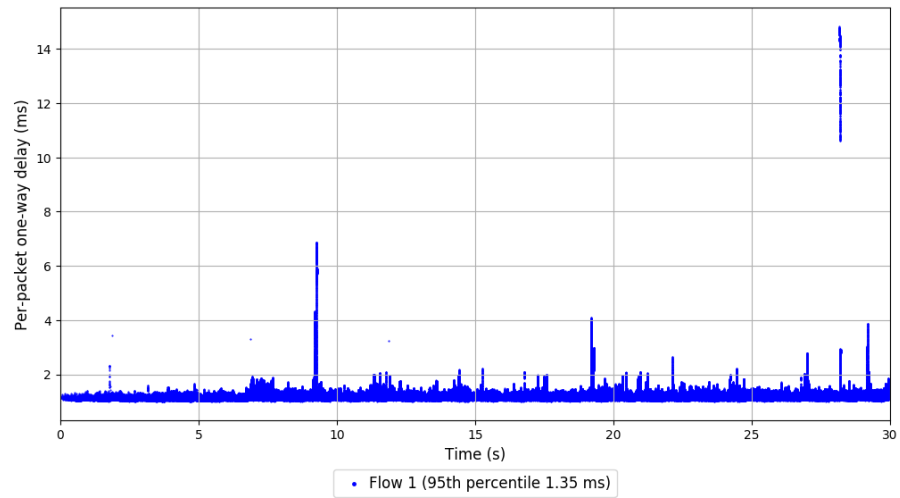
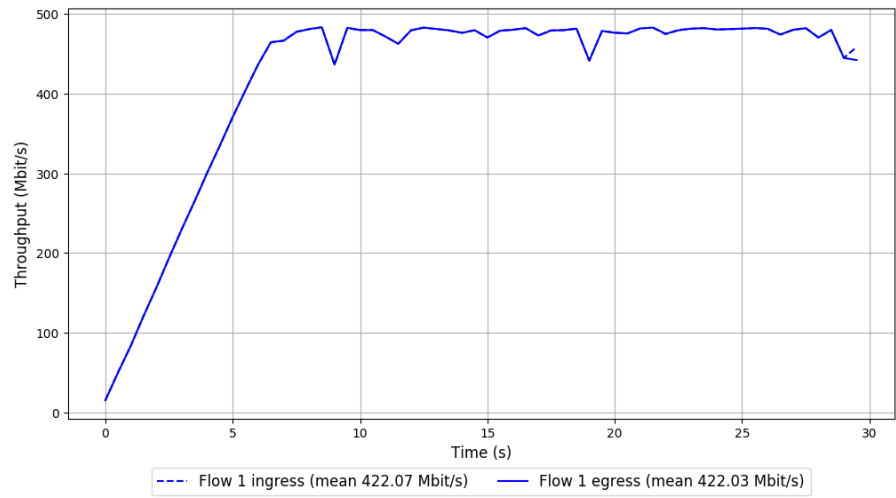


Run 1: Statistics of LEDBAT

Start at: 2018-03-13 00:58:57
End at: 2018-03-13 00:59:27
Local clock offset: 0.88 ms
Remote clock offset: -5.279 ms

Below is generated by plot.py at 2018-03-13 10:44:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 422.03 Mbit/s
95th percentile per-packet one-way delay: 1.346 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 422.03 Mbit/s
95th percentile per-packet one-way delay: 1.346 ms
Loss rate: 0.07%

Run 1: Report of LEDBAT — Data Link

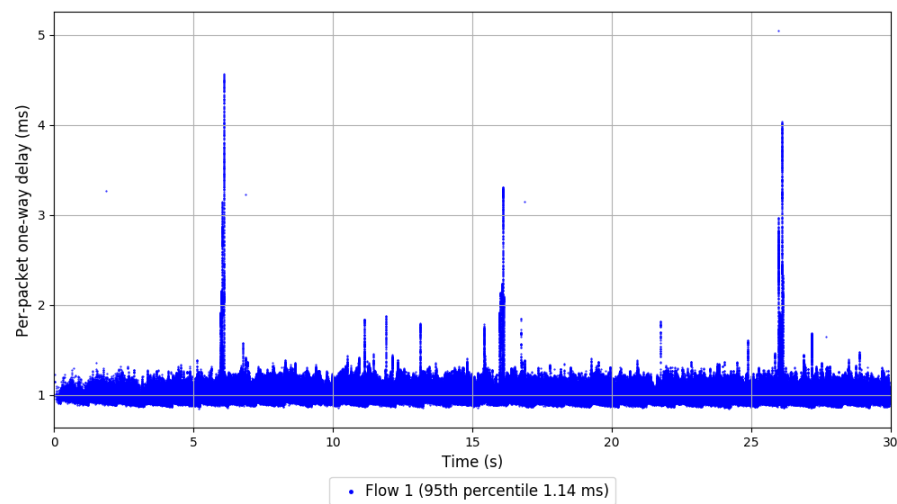
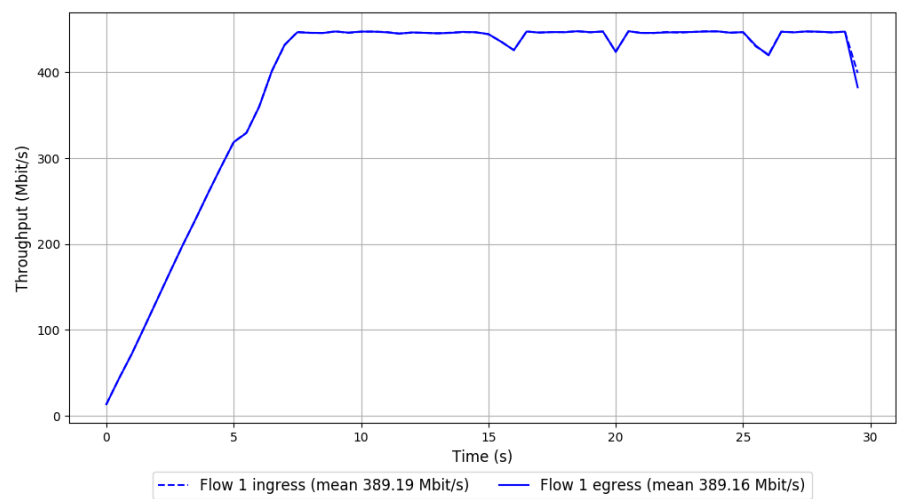


Run 2: Statistics of LEDBAT

Start at: 2018-03-13 01:27:10
End at: 2018-03-13 01:27:40
Local clock offset: 1.15 ms
Remote clock offset: -6.091 ms

Below is generated by plot.py at 2018-03-13 10:44:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 389.16 Mbit/s
95th percentile per-packet one-way delay: 1.139 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 389.16 Mbit/s
95th percentile per-packet one-way delay: 1.139 ms
Loss rate: 0.08%

Run 2: Report of LEDBAT — Data Link

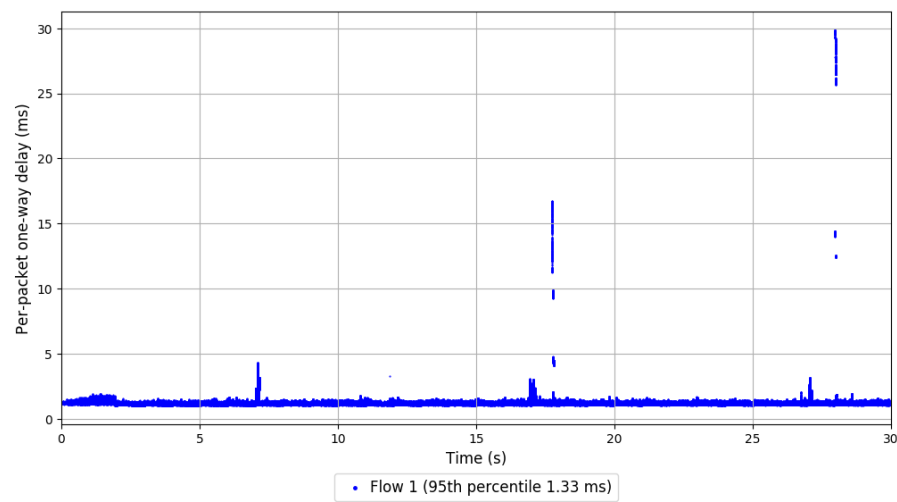
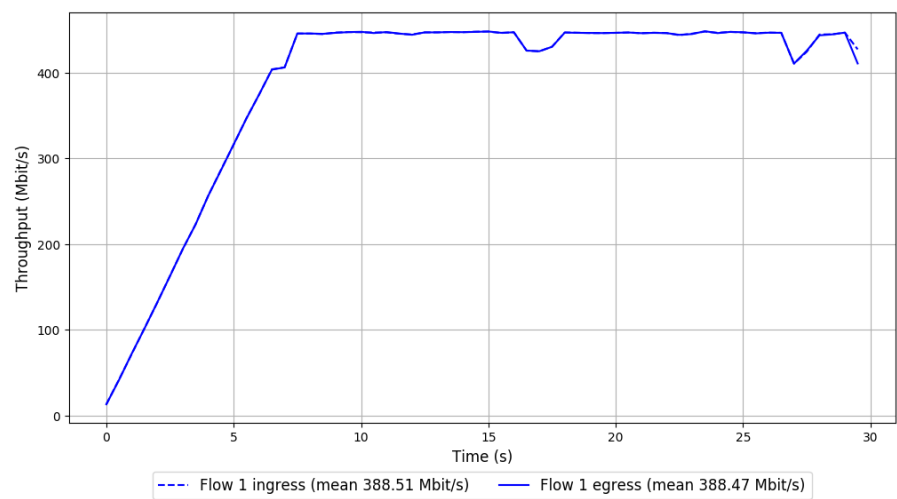


Run 3: Statistics of LEDBAT

Start at: 2018-03-13 01:54:48
End at: 2018-03-13 01:55:18
Local clock offset: 0.881 ms
Remote clock offset: -5.607 ms

Below is generated by plot.py at 2018-03-13 10:44:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 388.47 Mbit/s
95th percentile per-packet one-way delay: 1.330 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 388.47 Mbit/s
95th percentile per-packet one-way delay: 1.330 ms
Loss rate: 0.08%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-03-13 02:22:56

End at: 2018-03-13 02:23:26

Local clock offset: 0.97 ms

Remote clock offset: -5.301 ms

Below is generated by plot.py at 2018-03-13 10:44:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 398.85 Mbit/s

95th percentile per-packet one-way delay: 1.348 ms

Loss rate: 0.01%

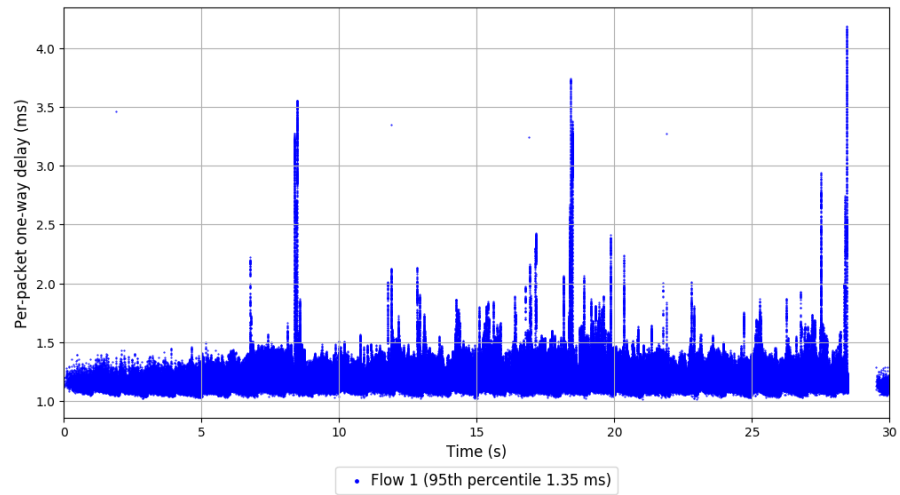
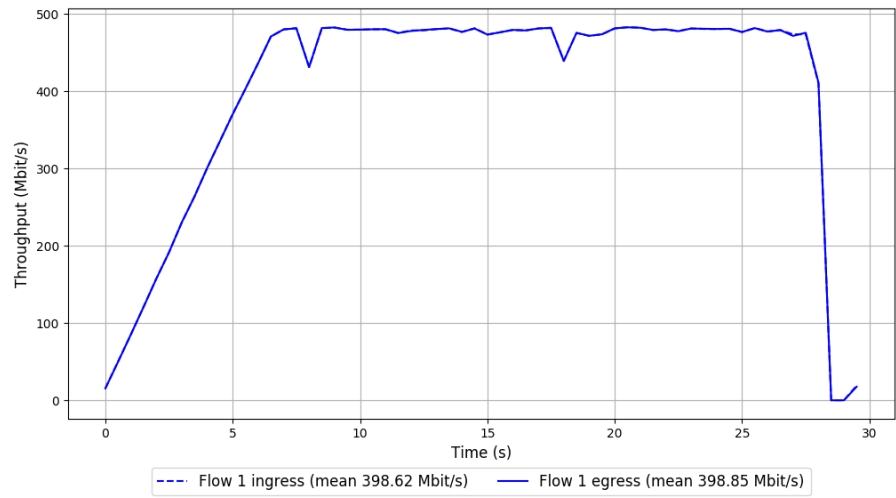
-- Flow 1:

Average throughput: 398.85 Mbit/s

95th percentile per-packet one-way delay: 1.348 ms

Loss rate: 0.01%

Run 4: Report of LEDBAT — Data Link

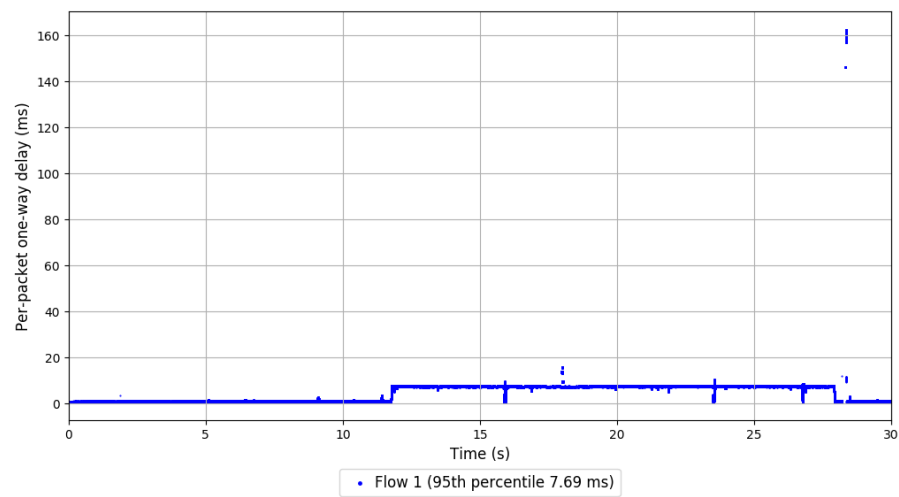
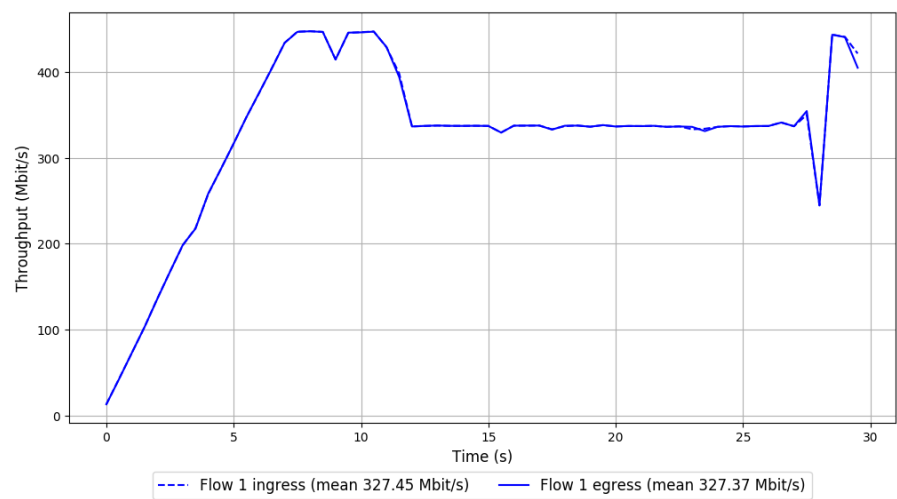


Run 5: Statistics of LEDBAT

Start at: 2018-03-13 02:50:51
End at: 2018-03-13 02:51:21
Local clock offset: 1.037 ms
Remote clock offset: -5.253 ms

Below is generated by plot.py at 2018-03-13 10:44:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 327.37 Mbit/s
95th percentile per-packet one-way delay: 7.691 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 327.37 Mbit/s
95th percentile per-packet one-way delay: 7.691 ms
Loss rate: 0.09%

Run 5: Report of LEDBAT — Data Link

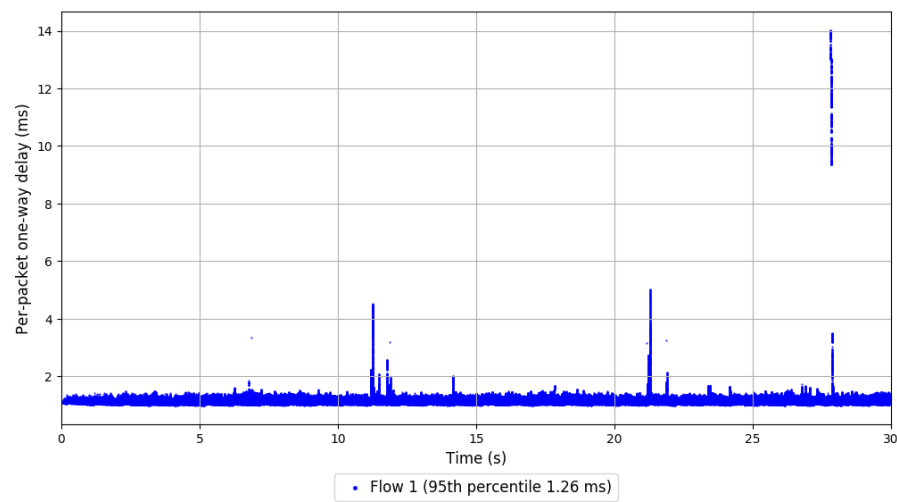
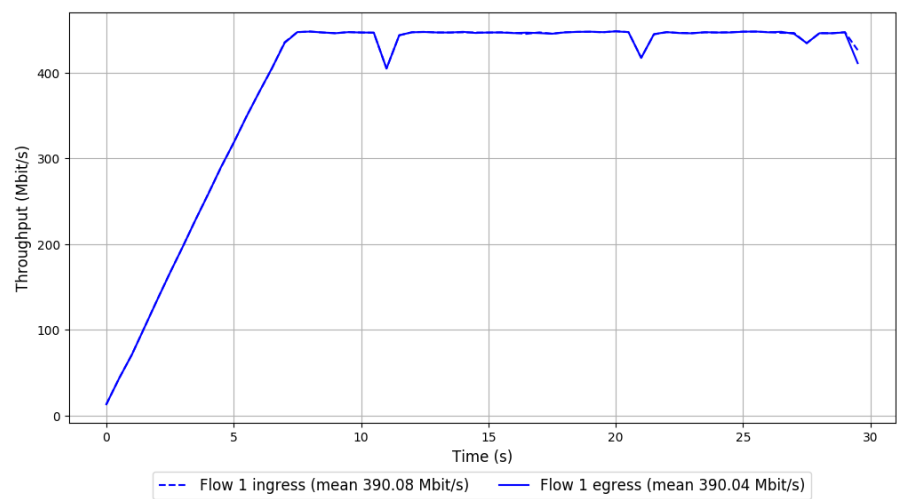


Run 6: Statistics of LEDBAT

Start at: 2018-03-13 03:18:33
End at: 2018-03-13 03:19:03
Local clock offset: 1.097 ms
Remote clock offset: -6.548 ms

Below is generated by plot.py at 2018-03-13 10:46:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 390.04 Mbit/s
95th percentile per-packet one-way delay: 1.265 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 390.04 Mbit/s
95th percentile per-packet one-way delay: 1.265 ms
Loss rate: 0.07%

Run 6: Report of LEDBAT — Data Link

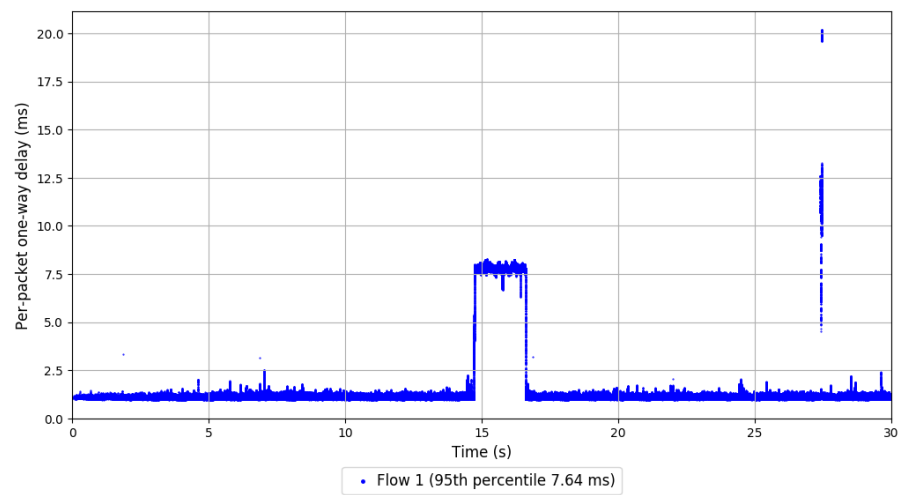
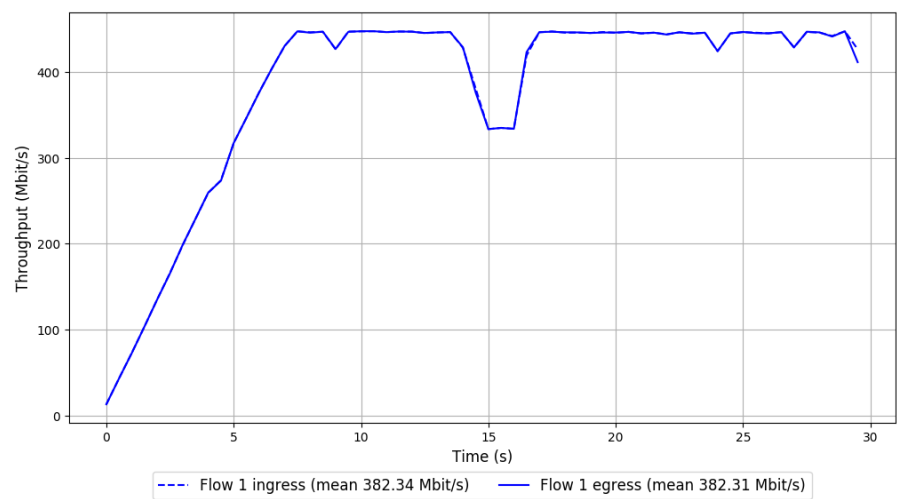


Run 7: Statistics of LEDBAT

Start at: 2018-03-13 03:46:09
End at: 2018-03-13 03:46:39
Local clock offset: 1.116 ms
Remote clock offset: -6.076 ms

Below is generated by plot.py at 2018-03-13 10:46:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 382.31 Mbit/s
95th percentile per-packet one-way delay: 7.645 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 382.31 Mbit/s
95th percentile per-packet one-way delay: 7.645 ms
Loss rate: 0.07%

Run 7: Report of LEDBAT — Data Link

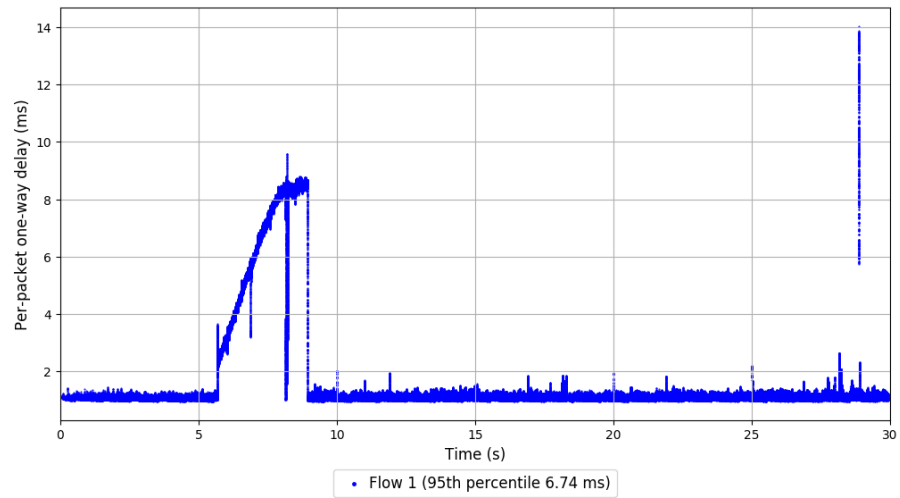
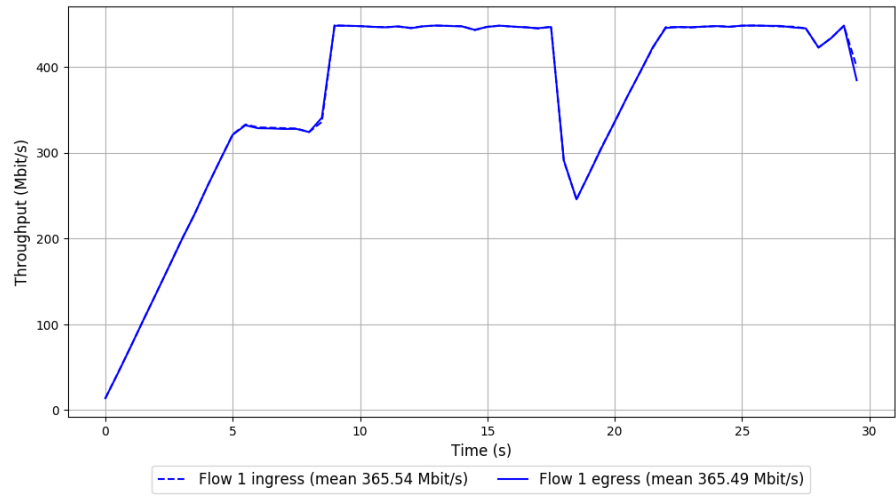


Run 8: Statistics of LEDBAT

Start at: 2018-03-13 04:14:05
End at: 2018-03-13 04:14:35
Local clock offset: 1.25 ms
Remote clock offset: -5.848 ms

Below is generated by plot.py at 2018-03-13 10:46:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 365.49 Mbit/s
95th percentile per-packet one-way delay: 6.741 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 365.49 Mbit/s
95th percentile per-packet one-way delay: 6.741 ms
Loss rate: 0.08%

Run 8: Report of LEDBAT — Data Link

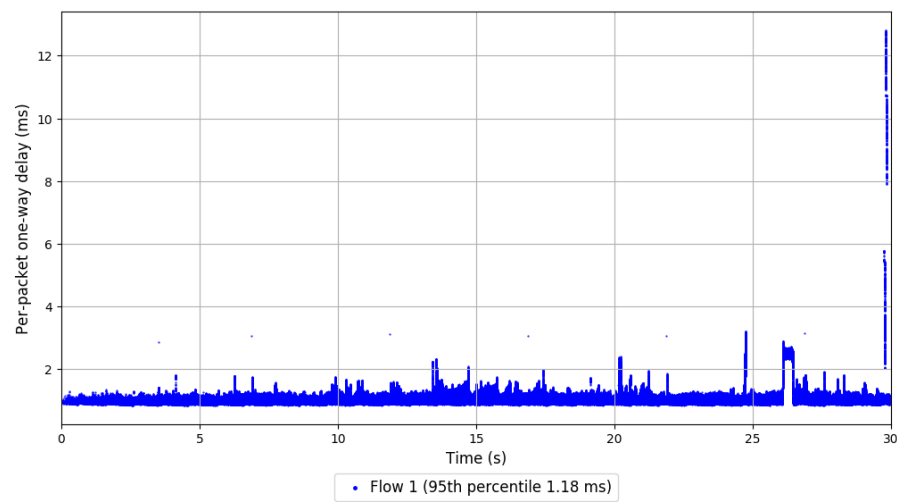
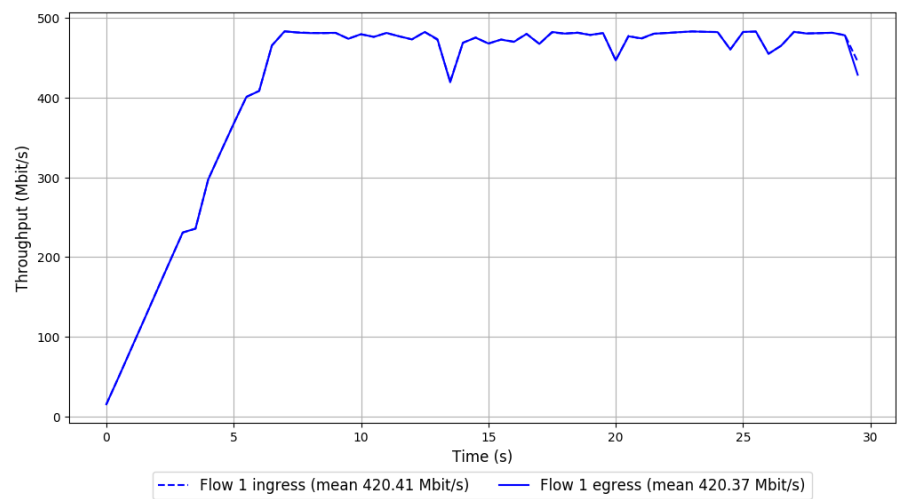


Run 9: Statistics of LEDBAT

Start at: 2018-03-13 04:41:59
End at: 2018-03-13 04:42:29
Local clock offset: 1.24 ms
Remote clock offset: -5.636 ms

Below is generated by plot.py at 2018-03-13 10:46:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 420.37 Mbit/s
95th percentile per-packet one-way delay: 1.182 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 420.37 Mbit/s
95th percentile per-packet one-way delay: 1.182 ms
Loss rate: 0.07%

Run 9: Report of LEDBAT — Data Link

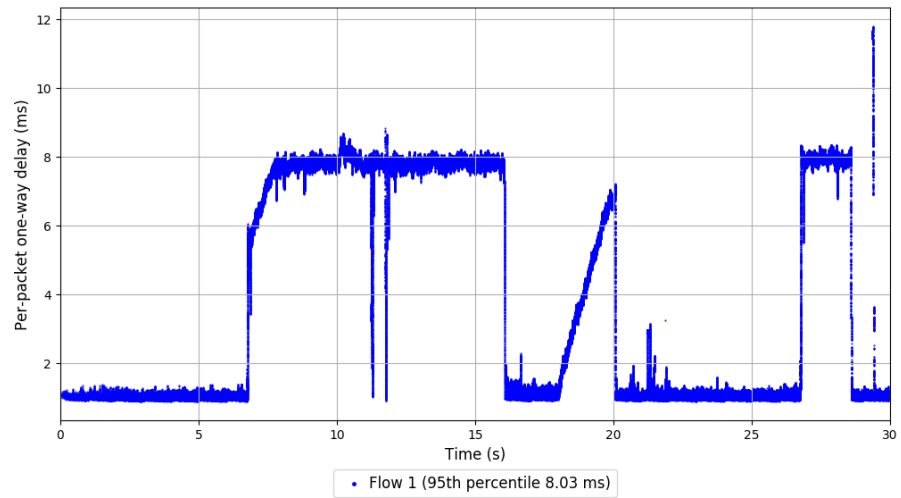
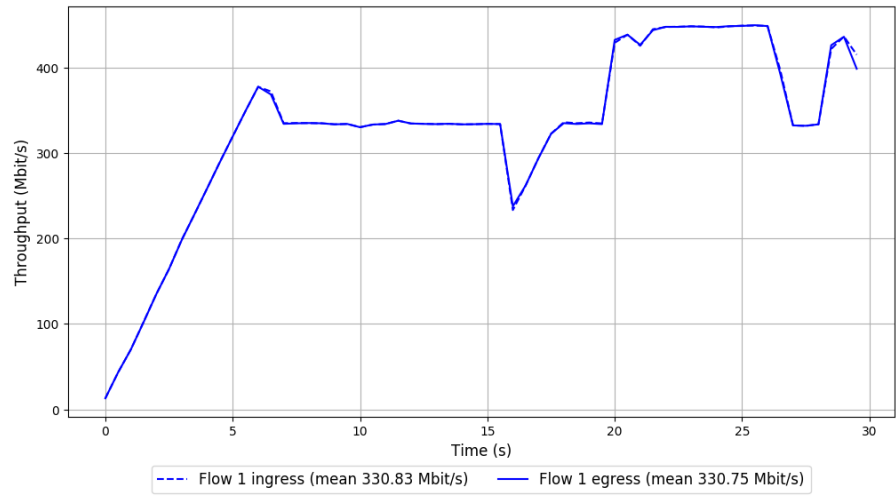


Run 10: Statistics of LEDBAT

Start at: 2018-03-13 05:09:51
End at: 2018-03-13 05:10:21
Local clock offset: 1.771 ms
Remote clock offset: -5.424 ms

Below is generated by plot.py at 2018-03-13 10:46:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 330.75 Mbit/s
95th percentile per-packet one-way delay: 8.031 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 330.75 Mbit/s
95th percentile per-packet one-way delay: 8.031 ms
Loss rate: 0.09%

Run 10: Report of LEDBAT — Data Link

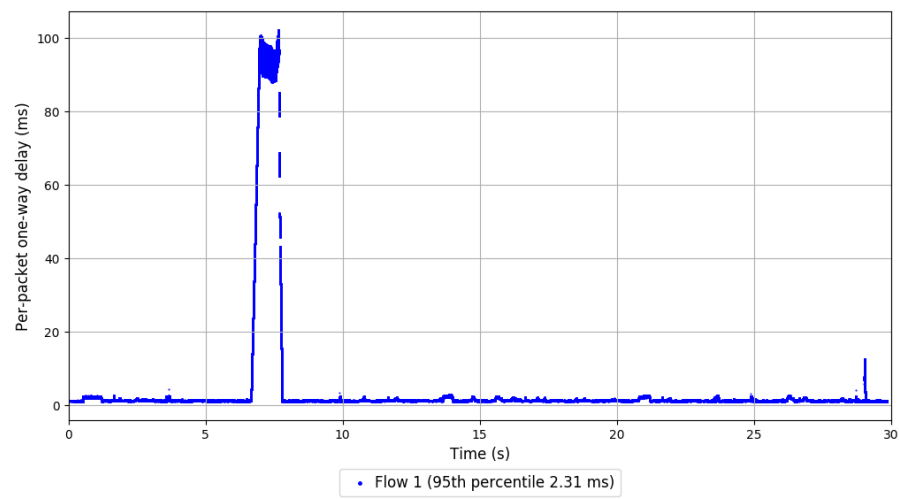
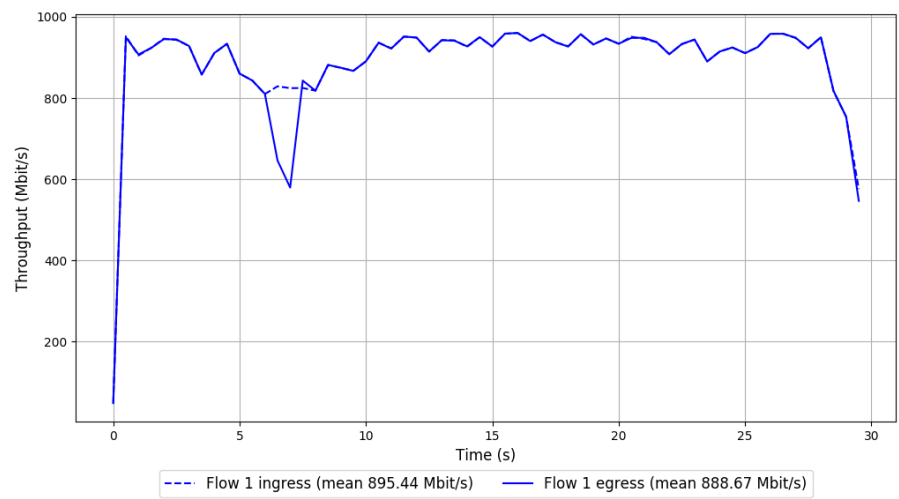


Run 1: Statistics of PCC

Start at: 2018-03-13 01:16:02
End at: 2018-03-13 01:16:32
Local clock offset: 1.086 ms
Remote clock offset: -5.802 ms

Below is generated by plot.py at 2018-03-13 10:53:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 888.67 Mbit/s
95th percentile per-packet one-way delay: 2.308 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 888.67 Mbit/s
95th percentile per-packet one-way delay: 2.308 ms
Loss rate: 0.82%

Run 1: Report of PCC — Data Link

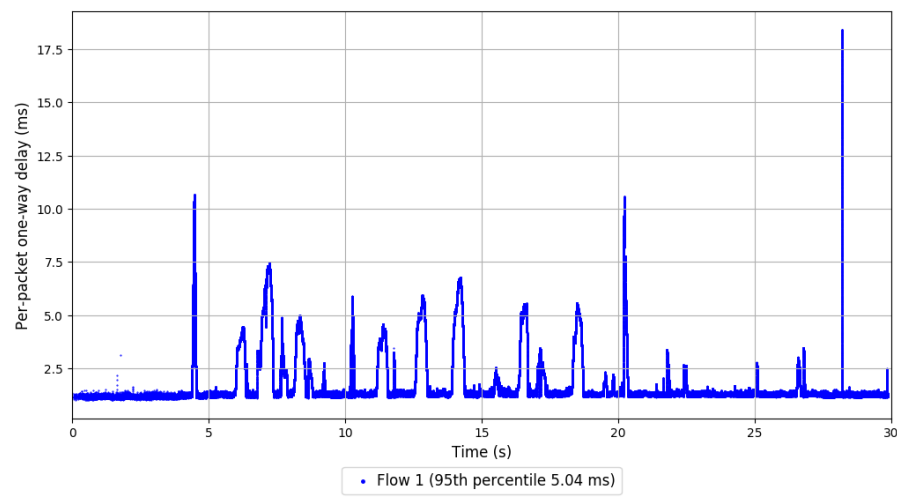
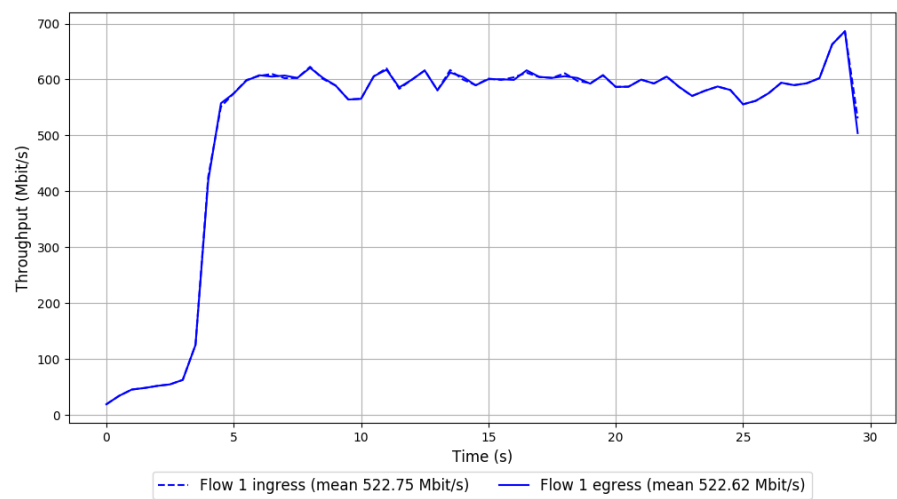


Run 2: Statistics of PCC

Start at: 2018-03-13 01:43:55
End at: 2018-03-13 01:44:25
Local clock offset: 1.019 ms
Remote clock offset: -6.409 ms

Below is generated by plot.py at 2018-03-13 10:53:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 522.62 Mbit/s
95th percentile per-packet one-way delay: 5.036 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 522.62 Mbit/s
95th percentile per-packet one-way delay: 5.036 ms
Loss rate: 0.09%

Run 2: Report of PCC — Data Link

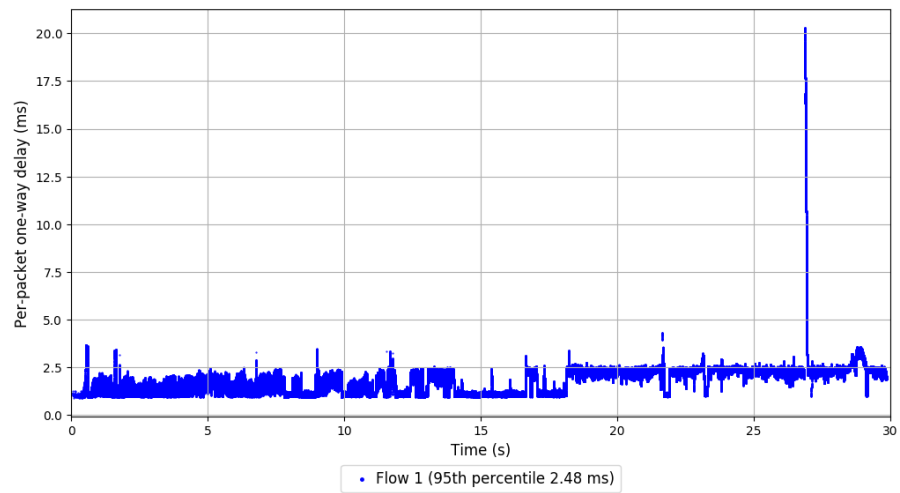
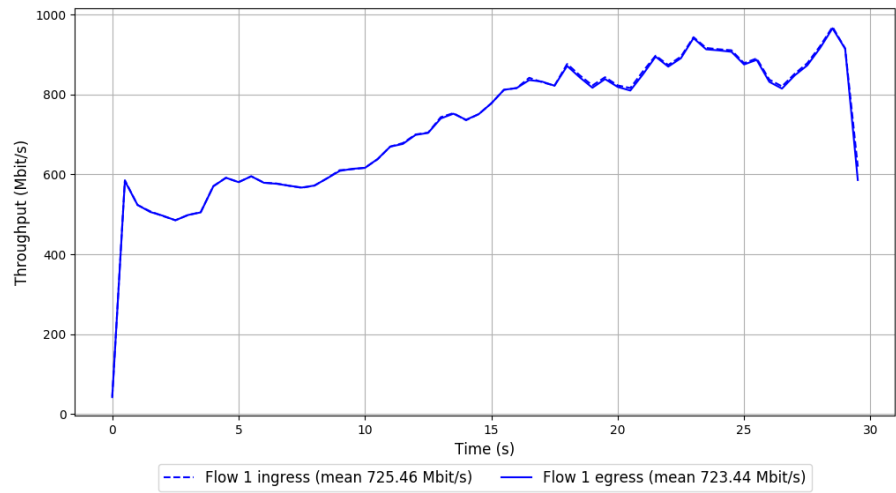


Run 3: Statistics of PCC

Start at: 2018-03-13 02:11:33
End at: 2018-03-13 02:12:03
Local clock offset: 0.75 ms
Remote clock offset: -5.266 ms

Below is generated by plot.py at 2018-03-13 10:53:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 723.44 Mbit/s
95th percentile per-packet one-way delay: 2.485 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 723.44 Mbit/s
95th percentile per-packet one-way delay: 2.485 ms
Loss rate: 0.35%

Run 3: Report of PCC — Data Link

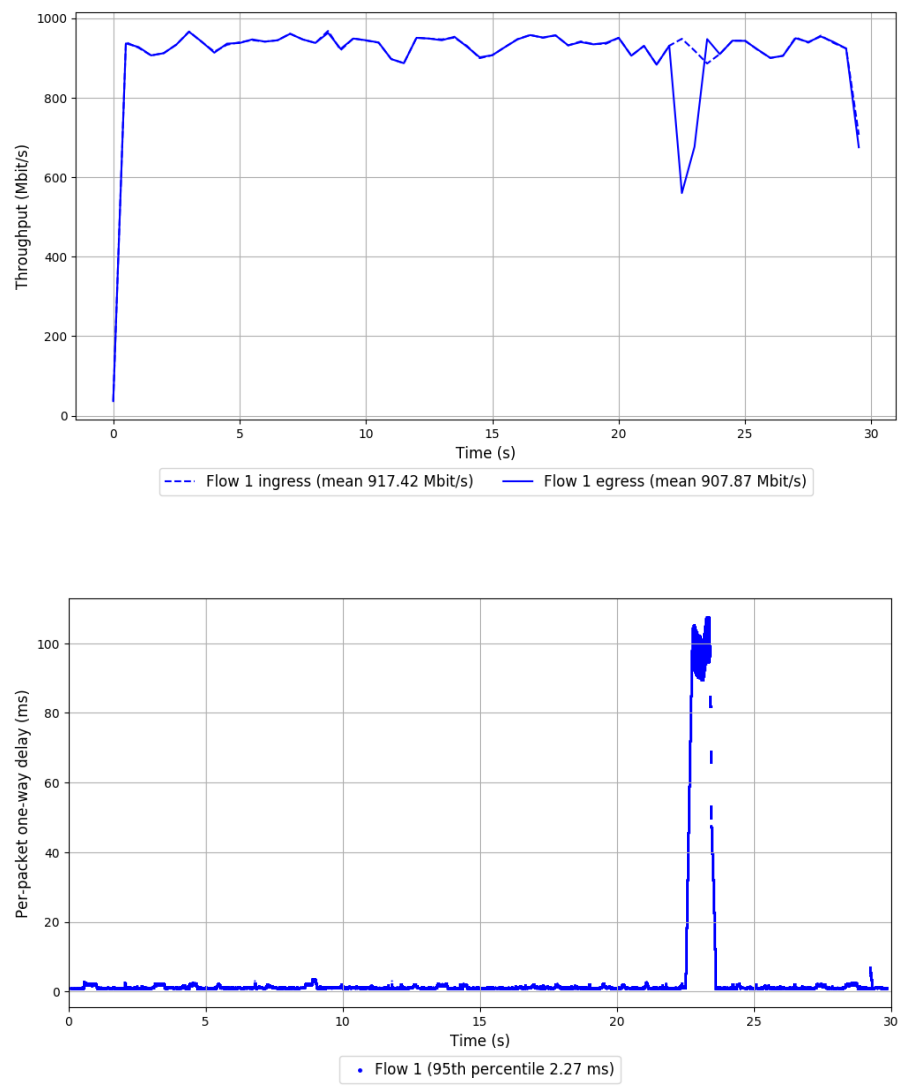


Run 4: Statistics of PCC

Start at: 2018-03-13 02:39:40
End at: 2018-03-13 02:40:10
Local clock offset: 0.933 ms
Remote clock offset: -5.306 ms

Below is generated by plot.py at 2018-03-13 10:59:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 907.87 Mbit/s
95th percentile per-packet one-way delay: 2.265 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 907.87 Mbit/s
95th percentile per-packet one-way delay: 2.265 ms
Loss rate: 1.10%

Run 4: Report of PCC — Data Link

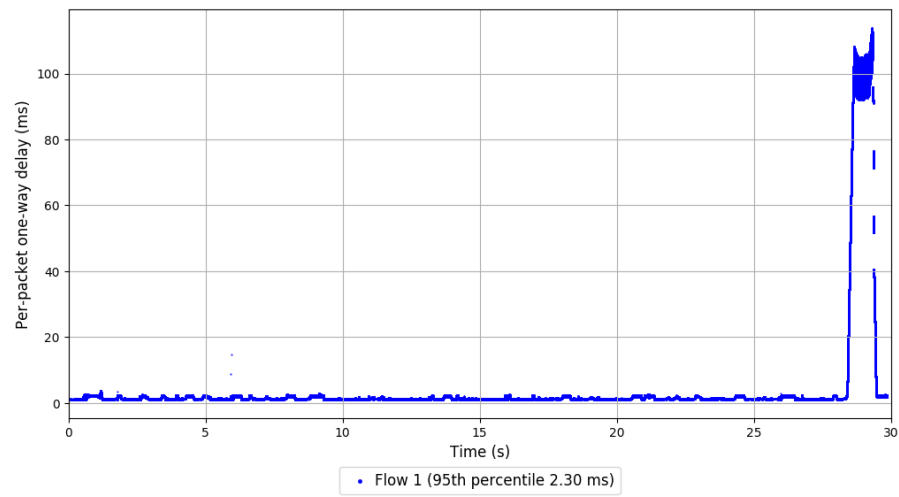
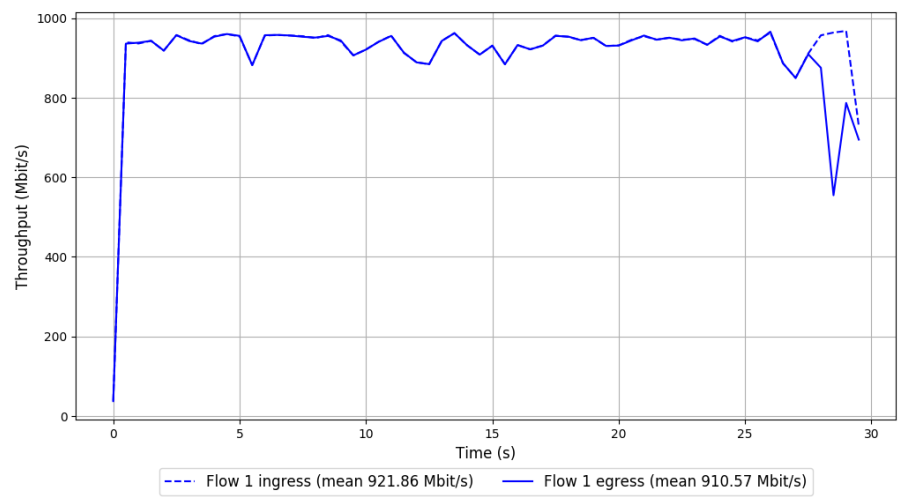


Run 5: Statistics of PCC

Start at: 2018-03-13 03:07:28
End at: 2018-03-13 03:07:58
Local clock offset: 1.114 ms
Remote clock offset: -6.354 ms

Below is generated by plot.py at 2018-03-13 10:59:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 910.57 Mbit/s
95th percentile per-packet one-way delay: 2.298 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 910.57 Mbit/s
95th percentile per-packet one-way delay: 2.298 ms
Loss rate: 1.29%

Run 5: Report of PCC — Data Link

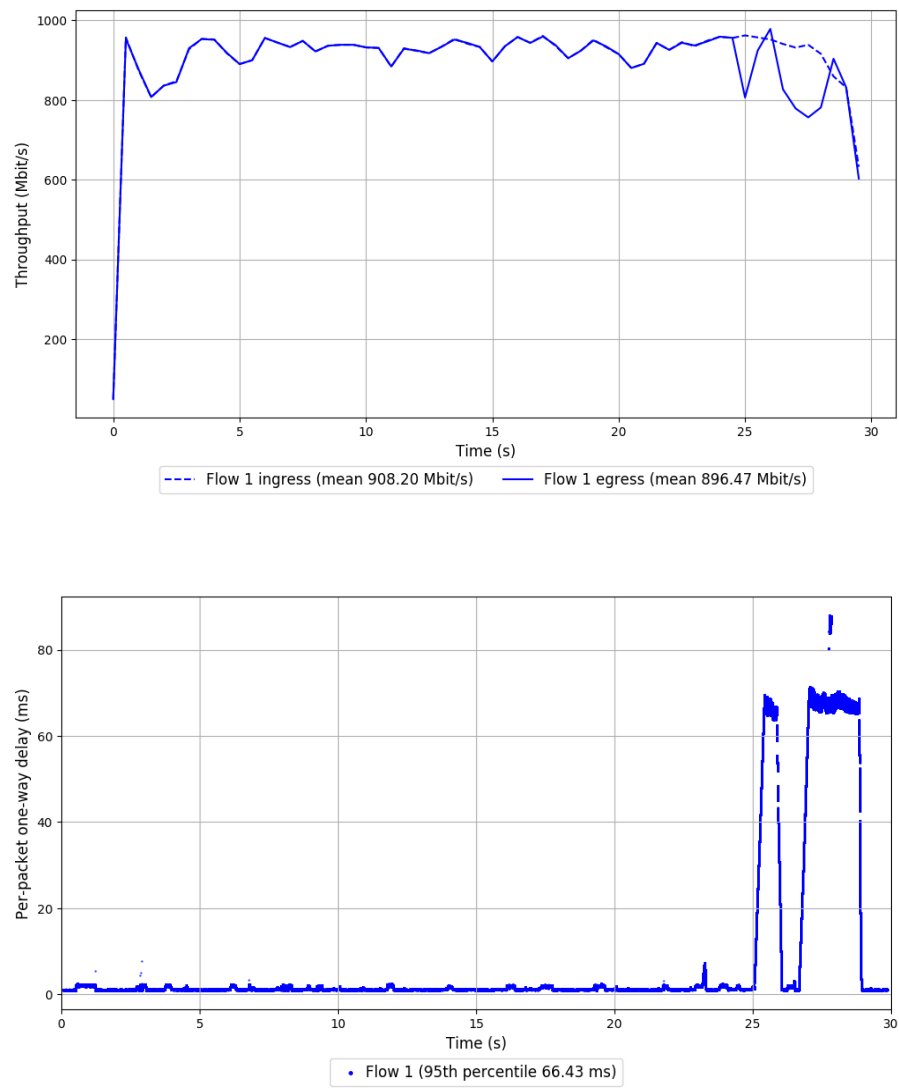


Run 6: Statistics of PCC

Start at: 2018-03-13 03:35:04
End at: 2018-03-13 03:35:34
Local clock offset: 1.108 ms
Remote clock offset: -6.211 ms

Below is generated by plot.py at 2018-03-13 10:59:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 896.47 Mbit/s
95th percentile per-packet one-way delay: 66.432 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 896.47 Mbit/s
95th percentile per-packet one-way delay: 66.432 ms
Loss rate: 1.35%

Run 6: Report of PCC — Data Link

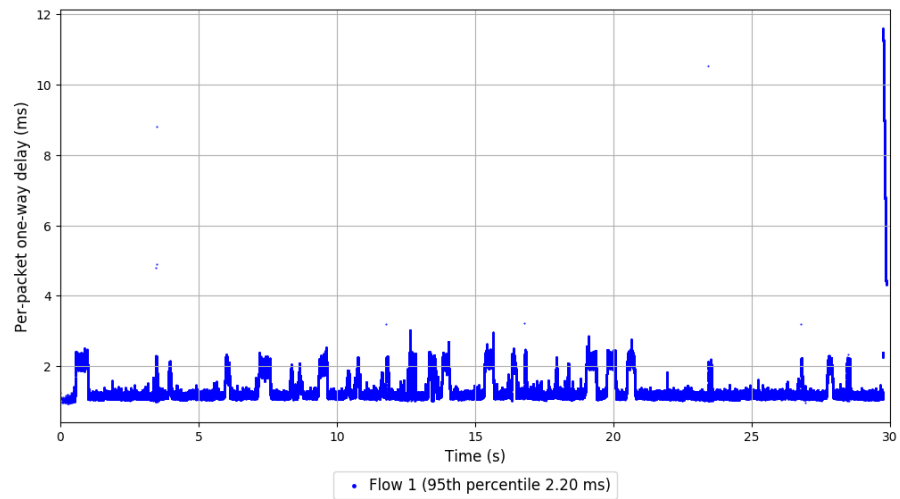
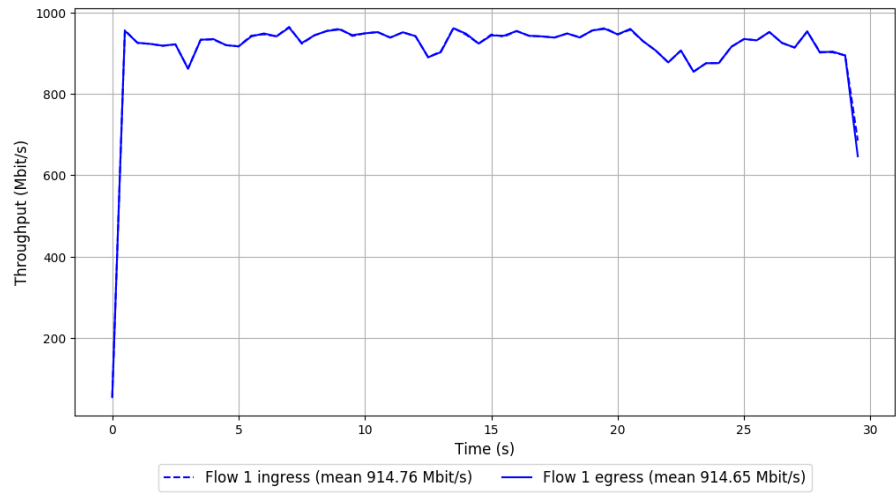


Run 7: Statistics of PCC

Start at: 2018-03-13 04:02:59
End at: 2018-03-13 04:03:29
Local clock offset: 1.229 ms
Remote clock offset: -5.972 ms

Below is generated by plot.py at 2018-03-13 10:59:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 914.65 Mbit/s
95th percentile per-packet one-way delay: 2.204 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 914.65 Mbit/s
95th percentile per-packet one-way delay: 2.204 ms
Loss rate: 0.07%

Run 7: Report of PCC — Data Link

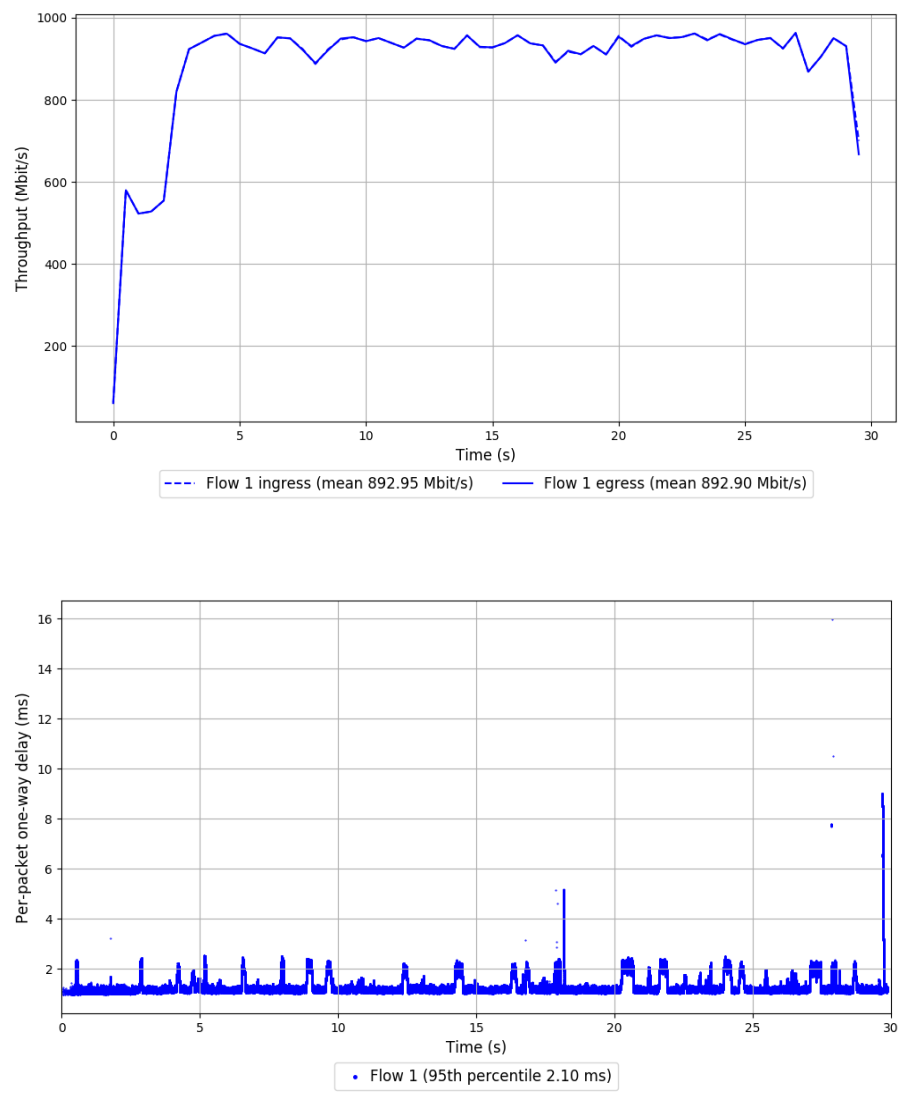


Run 8: Statistics of PCC

Start at: 2018-03-13 04:30:54
End at: 2018-03-13 04:31:25
Local clock offset: 1.31 ms
Remote clock offset: -5.681 ms

Below is generated by plot.py at 2018-03-13 11:00:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 892.90 Mbit/s
95th percentile per-packet one-way delay: 2.096 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 892.90 Mbit/s
95th percentile per-packet one-way delay: 2.096 ms
Loss rate: 0.07%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

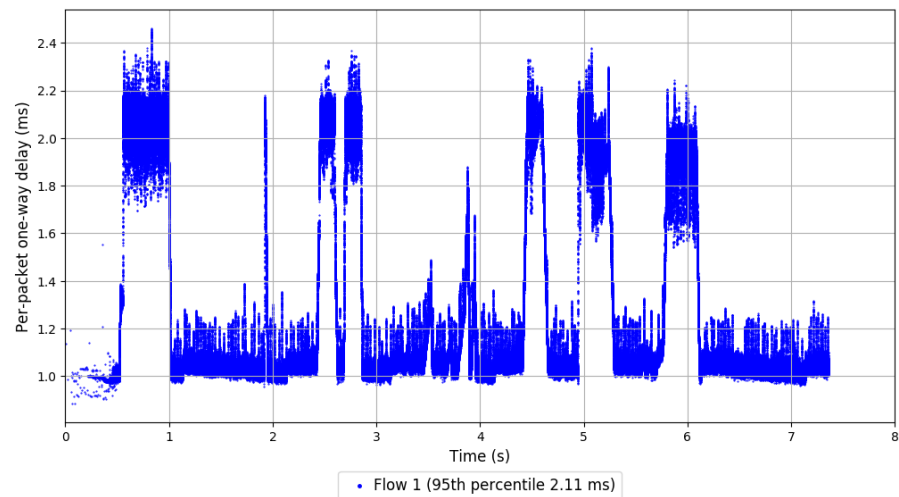
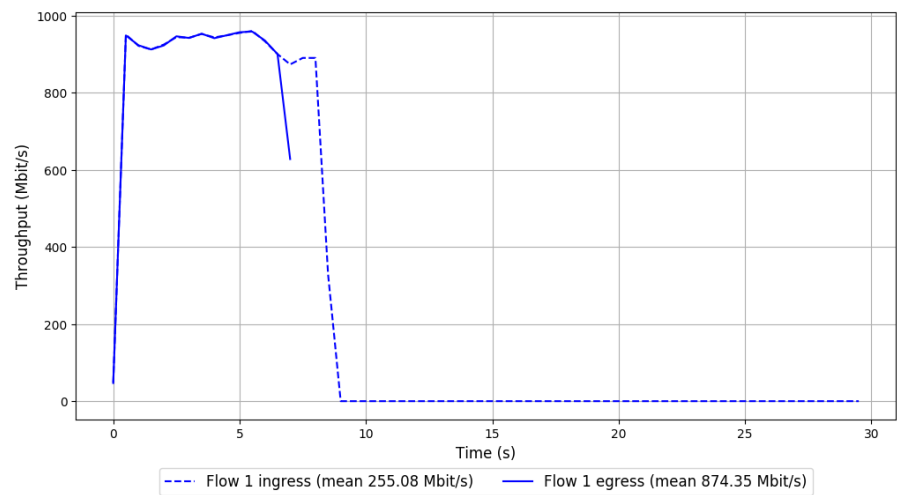
Start at: 2018-03-13 04:58:49

End at: 2018-03-13 04:59:19

Local clock offset: 1.286 ms

Remote clock offset: -5.609 ms

Run 9: Report of PCC — Data Link

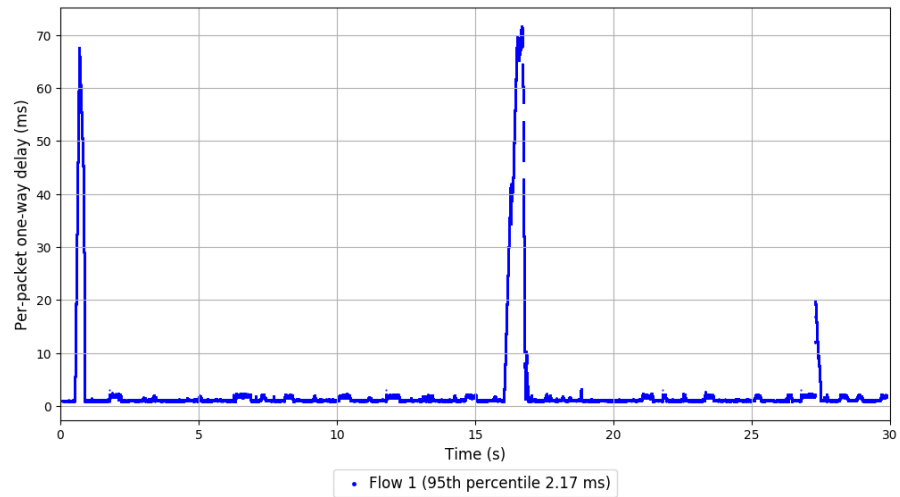
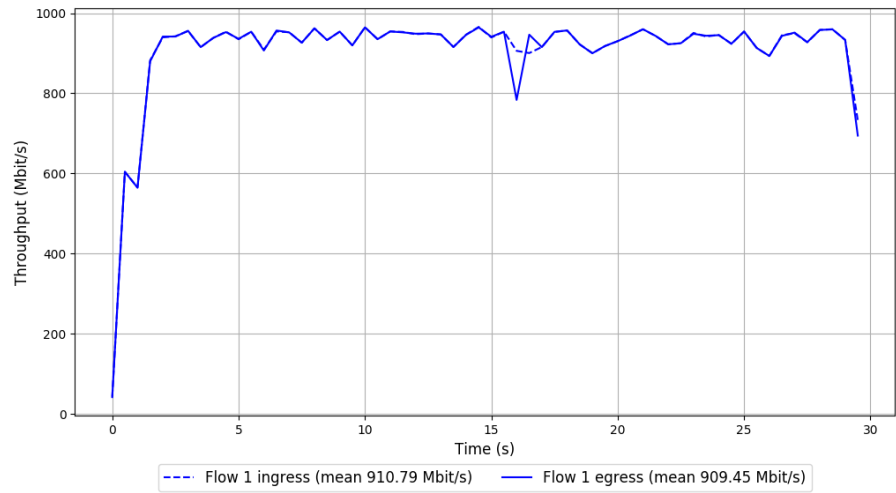


Run 10: Statistics of PCC

Start at: 2018-03-13 05:26:25
End at: 2018-03-13 05:26:55
Local clock offset: 1.99 ms
Remote clock offset: -5.118 ms

Below is generated by plot.py at 2018-03-13 11:07:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 909.45 Mbit/s
95th percentile per-packet one-way delay: 2.172 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 909.45 Mbit/s
95th percentile per-packet one-way delay: 2.172 ms
Loss rate: 0.21%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-03-13 01:08:13

End at: 2018-03-13 01:08:43

Local clock offset: 1.0 ms

Remote clock offset: -5.184 ms

Below is generated by plot.py at 2018-03-13 11:07:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.90 Mbit/s

95th percentile per-packet one-way delay: 1.129 ms

Loss rate: 0.06%

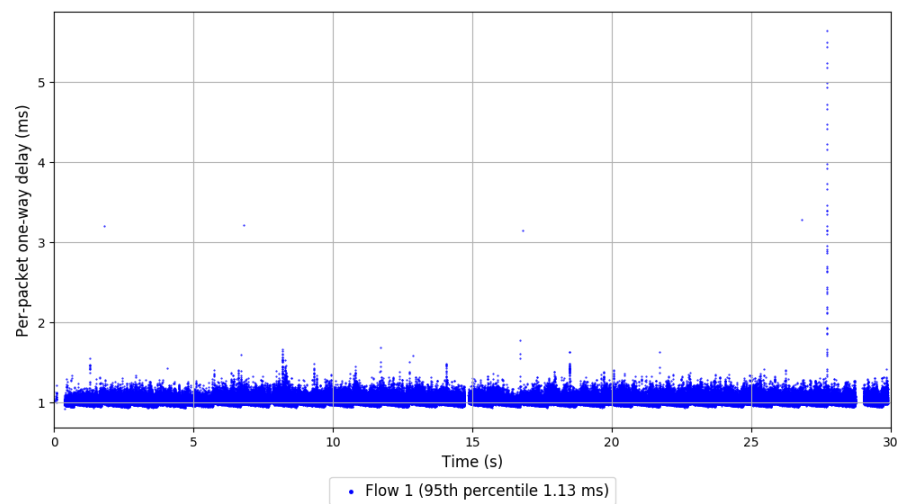
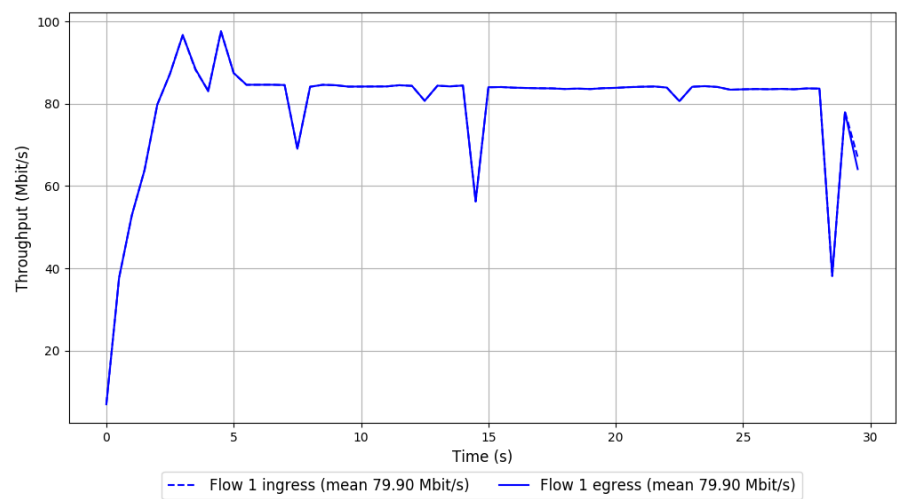
-- Flow 1:

Average throughput: 79.90 Mbit/s

95th percentile per-packet one-way delay: 1.129 ms

Loss rate: 0.06%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-03-13 01:36:06

End at: 2018-03-13 01:36:36

Local clock offset: 1.031 ms

Remote clock offset: -6.378 ms

Below is generated by plot.py at 2018-03-13 11:07:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.17 Mbit/s

95th percentile per-packet one-way delay: 1.157 ms

Loss rate: 0.07%

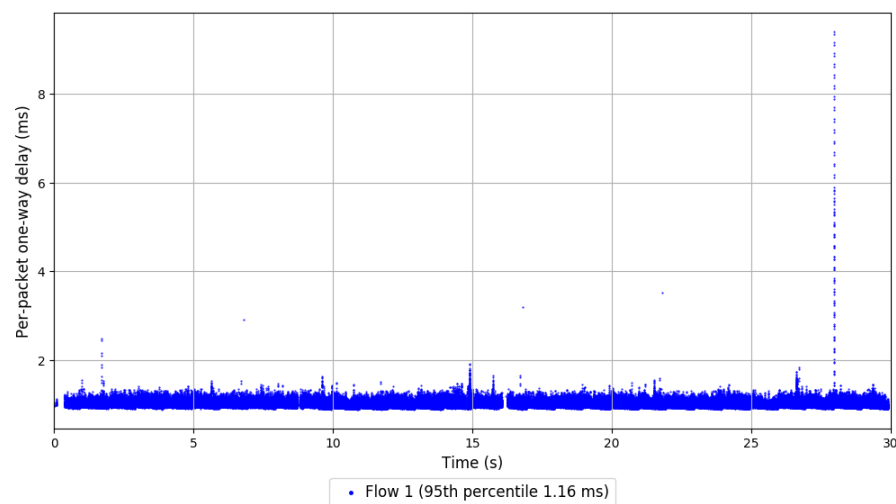
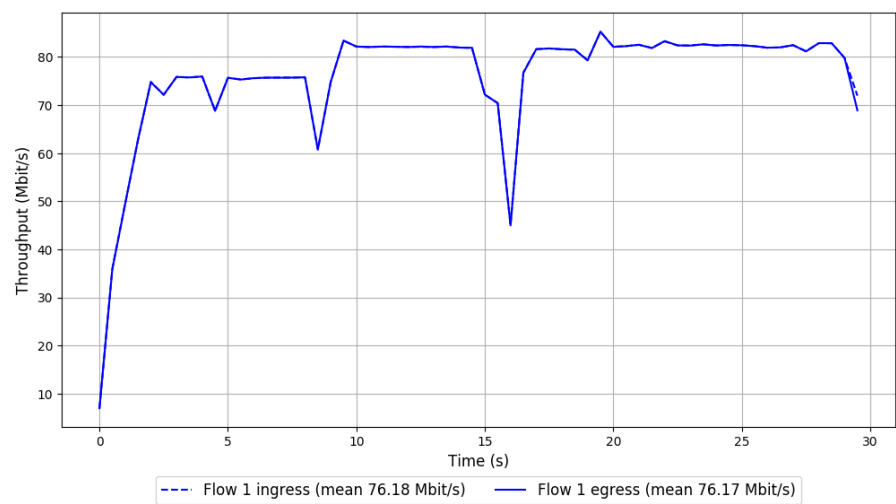
-- Flow 1:

Average throughput: 76.17 Mbit/s

95th percentile per-packet one-way delay: 1.157 ms

Loss rate: 0.07%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-03-13 02:03:41

End at: 2018-03-13 02:04:11

Local clock offset: 0.714 ms

Remote clock offset: -5.283 ms

Below is generated by plot.py at 2018-03-13 11:07:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.68 Mbit/s

95th percentile per-packet one-way delay: 1.034 ms

Loss rate: 0.07%

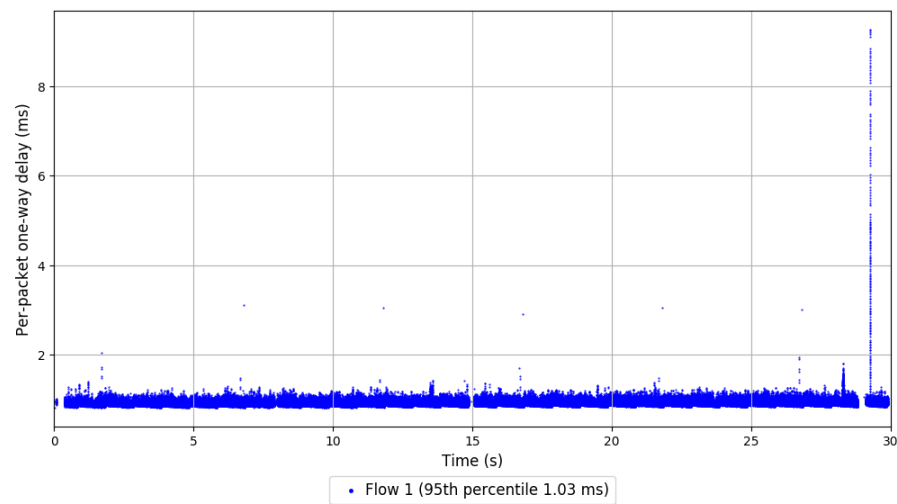
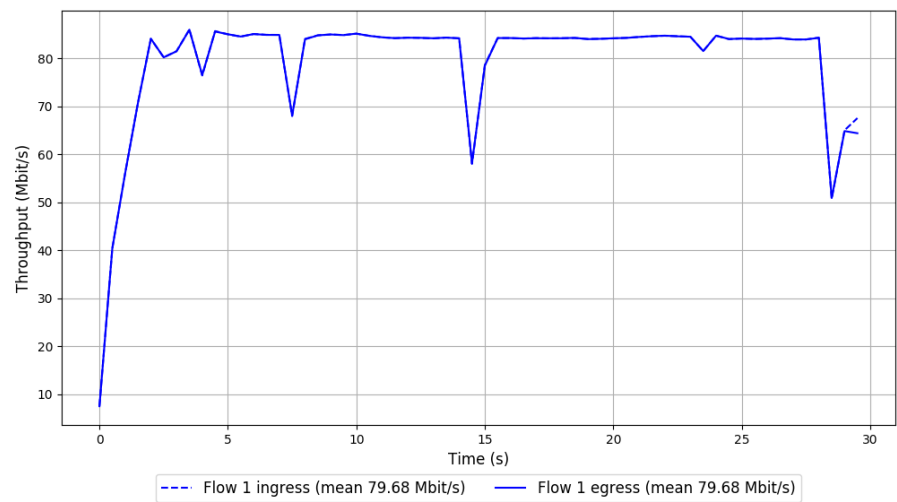
-- Flow 1:

Average throughput: 79.68 Mbit/s

95th percentile per-packet one-way delay: 1.034 ms

Loss rate: 0.07%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-03-13 02:31:47

End at: 2018-03-13 02:32:17

Local clock offset: 0.977 ms

Remote clock offset: -5.337 ms

Below is generated by plot.py at 2018-03-13 11:07:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.46 Mbit/s

95th percentile per-packet one-way delay: 2.130 ms

Loss rate: 0.08%

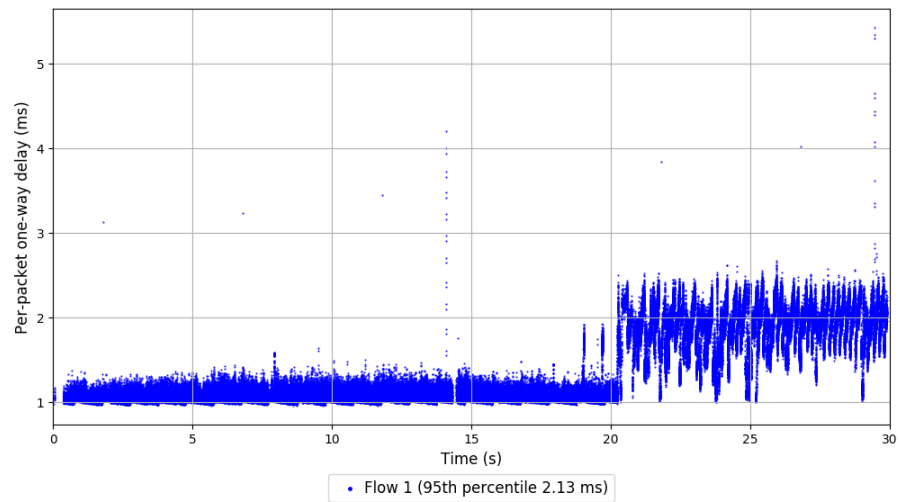
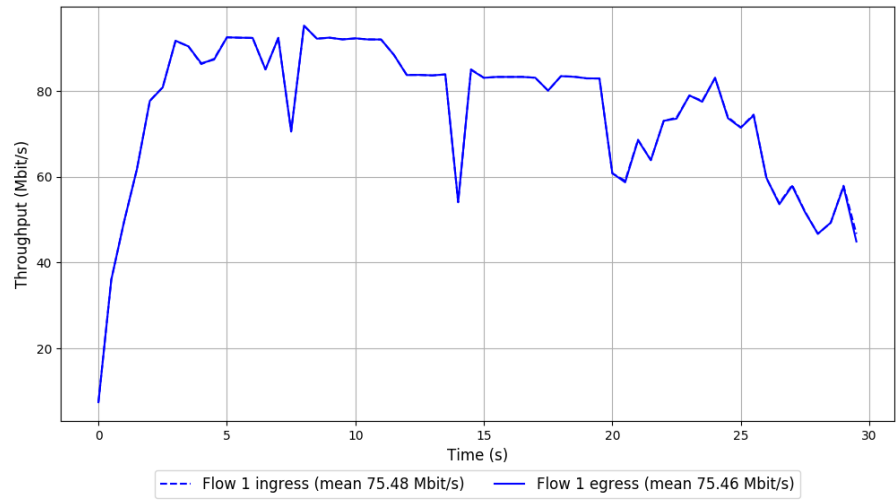
-- Flow 1:

Average throughput: 75.46 Mbit/s

95th percentile per-packet one-way delay: 2.130 ms

Loss rate: 0.08%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-03-13 02:59:43

End at: 2018-03-13 03:00:13

Local clock offset: 1.1 ms

Remote clock offset: -5.962 ms

Below is generated by plot.py at 2018-03-13 11:07:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.25 Mbit/s

95th percentile per-packet one-way delay: 1.132 ms

Loss rate: 0.06%

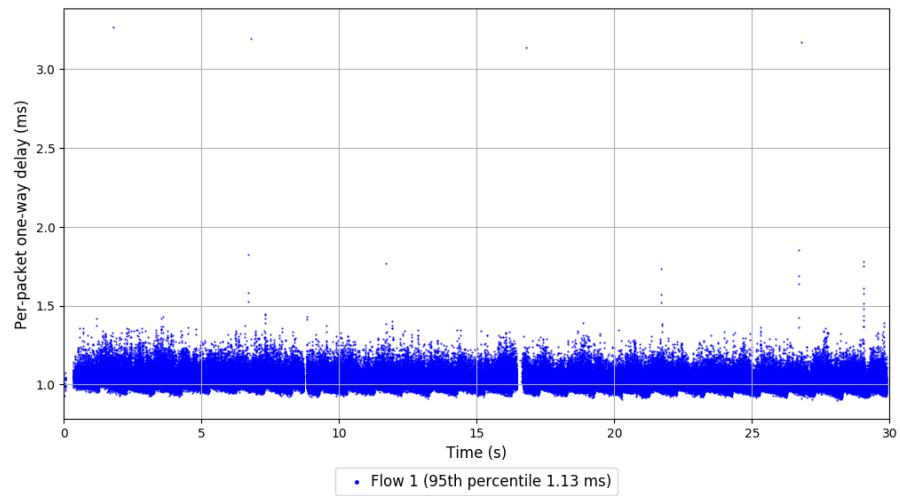
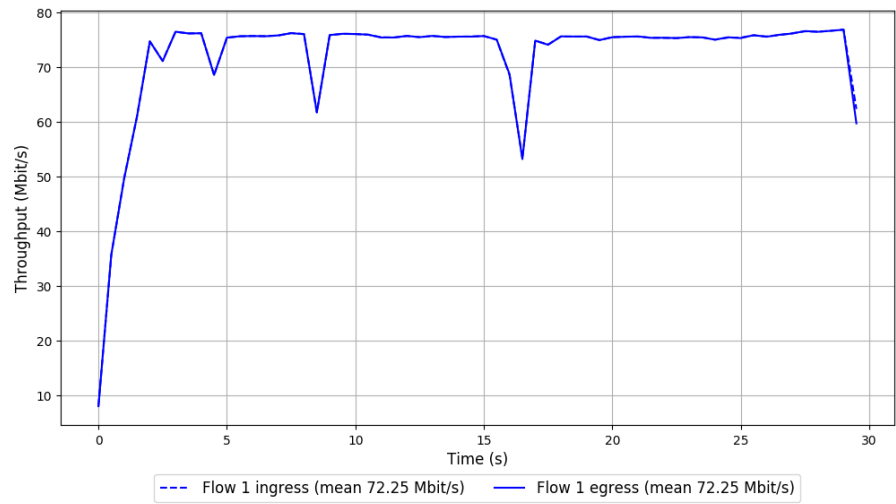
-- Flow 1:

Average throughput: 72.25 Mbit/s

95th percentile per-packet one-way delay: 1.132 ms

Loss rate: 0.06%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-03-13 03:27:22

End at: 2018-03-13 03:27:52

Local clock offset: 1.106 ms

Remote clock offset: -6.534 ms

Below is generated by plot.py at 2018-03-13 11:07:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.41 Mbit/s

95th percentile per-packet one-way delay: 1.229 ms

Loss rate: 0.06%

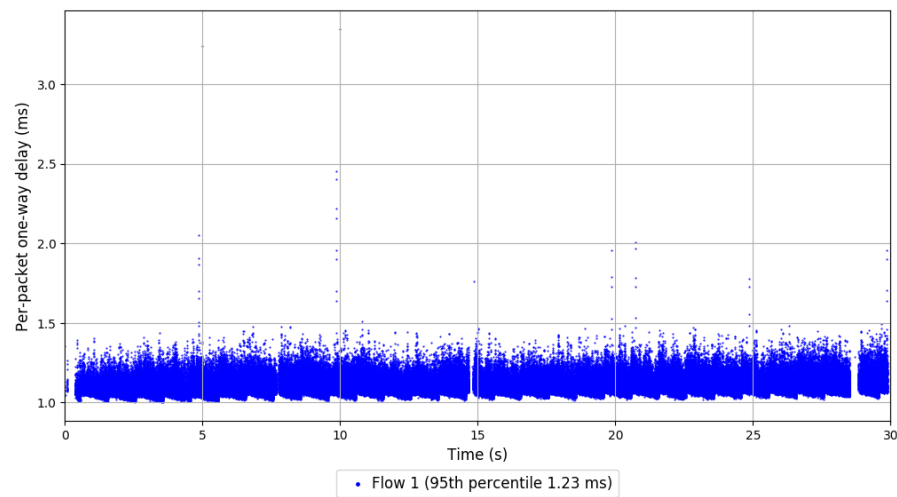
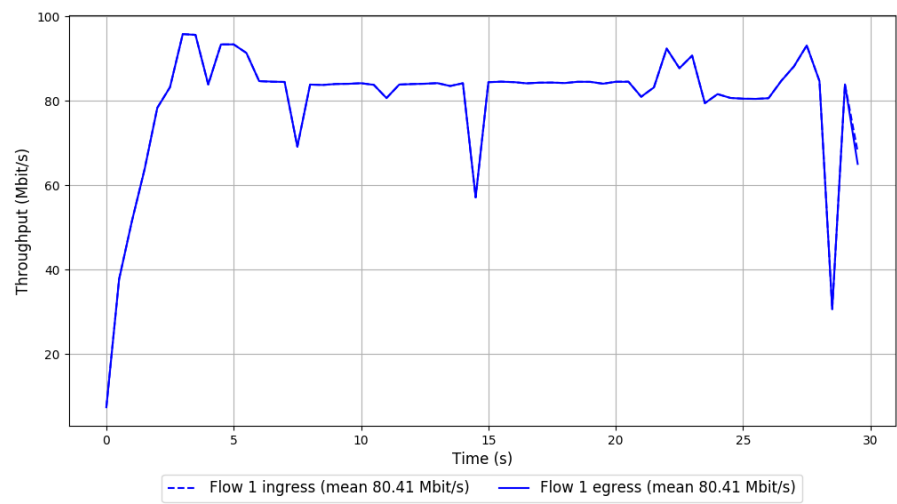
-- Flow 1:

Average throughput: 80.41 Mbit/s

95th percentile per-packet one-way delay: 1.229 ms

Loss rate: 0.06%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-03-13 03:55:12

End at: 2018-03-13 03:55:42

Local clock offset: 1.077 ms

Remote clock offset: -5.961 ms

Below is generated by plot.py at 2018-03-13 11:07:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.03 Mbit/s

95th percentile per-packet one-way delay: 0.981 ms

Loss rate: 0.07%

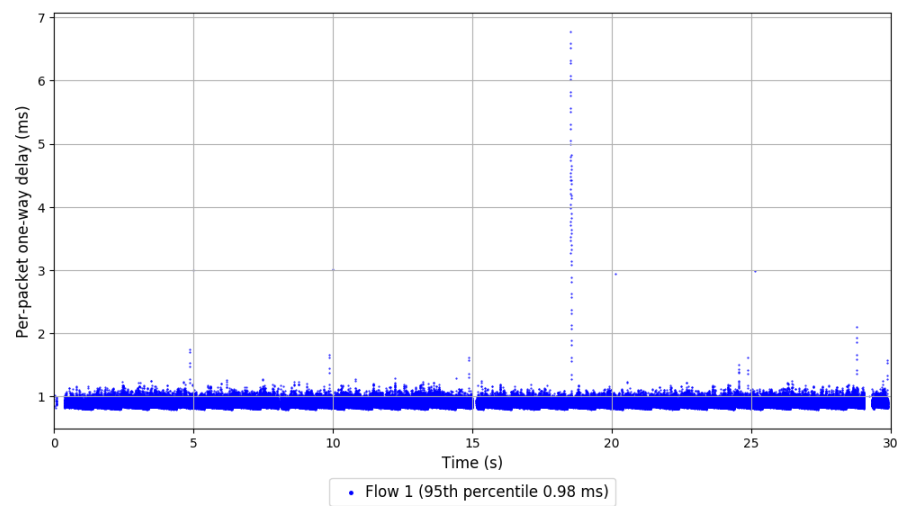
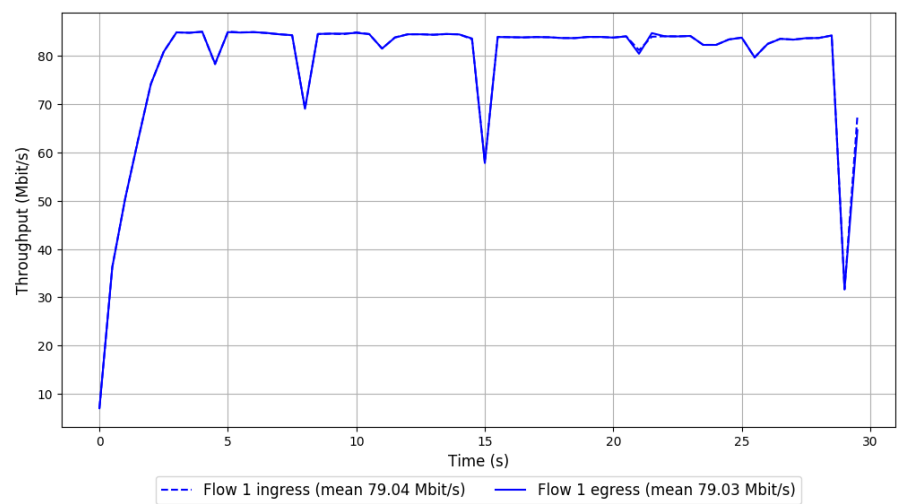
-- Flow 1:

Average throughput: 79.03 Mbit/s

95th percentile per-packet one-way delay: 0.981 ms

Loss rate: 0.07%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-03-13 04:22:58

End at: 2018-03-13 04:23:28

Local clock offset: 1.309 ms

Remote clock offset: -5.769 ms

Below is generated by plot.py at 2018-03-13 11:07:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.24 Mbit/s

95th percentile per-packet one-way delay: 2.156 ms

Loss rate: 0.14%

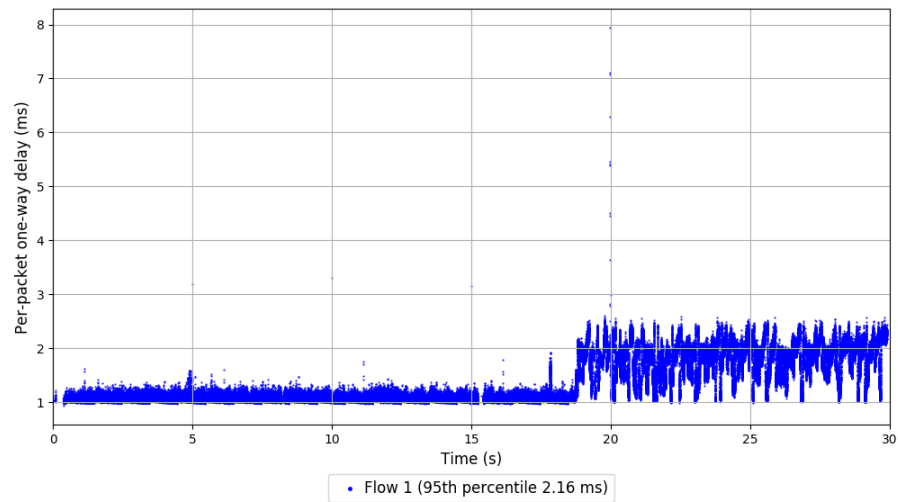
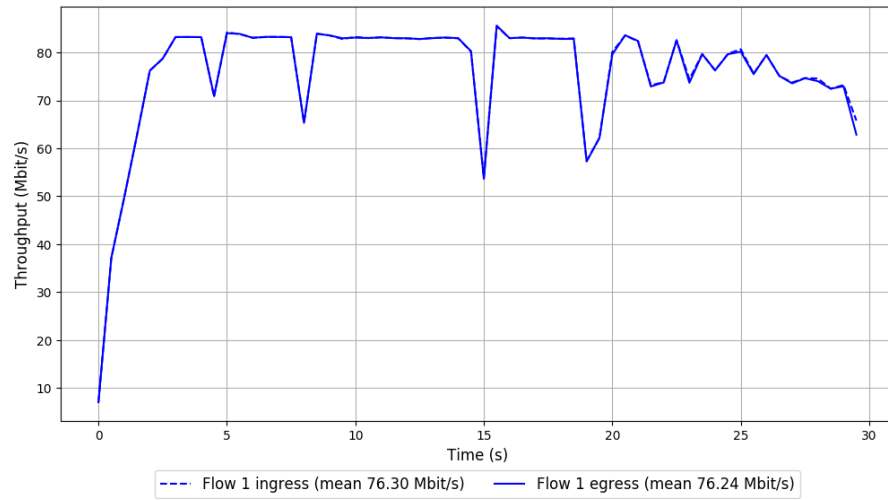
-- Flow 1:

Average throughput: 76.24 Mbit/s

95th percentile per-packet one-way delay: 2.156 ms

Loss rate: 0.14%

Run 8: Report of QUIC Cubic — Data Link

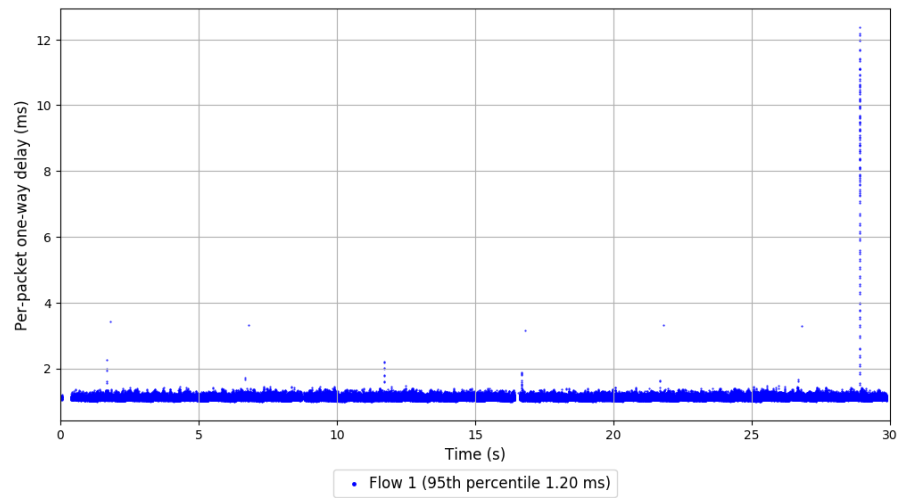
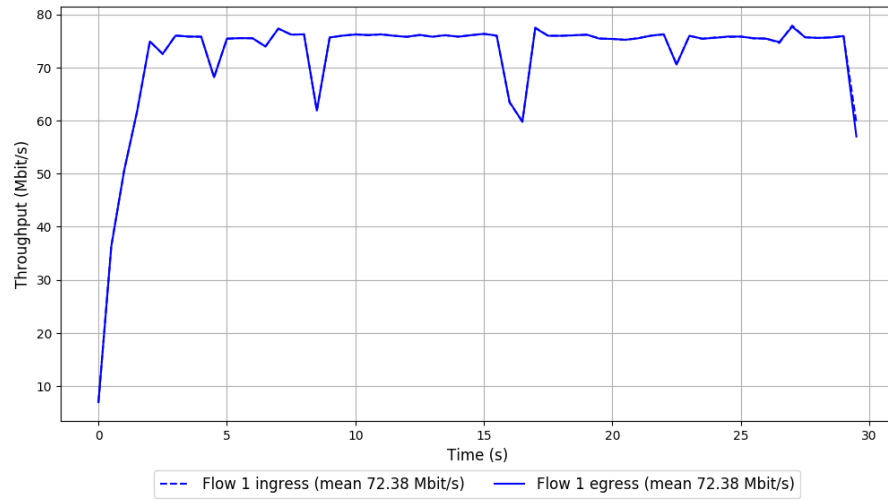


Run 9: Statistics of QUIC Cubic

Start at: 2018-03-13 04:51:15
End at: 2018-03-13 04:51:45
Local clock offset: 1.34 ms
Remote clock offset: -5.657 ms

Below is generated by plot.py at 2018-03-13 11:07:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 72.38 Mbit/s
95th percentile per-packet one-way delay: 1.201 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 72.38 Mbit/s
95th percentile per-packet one-way delay: 1.201 ms
Loss rate: 0.06%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-03-13 05:18:34

End at: 2018-03-13 05:19:04

Local clock offset: 1.836 ms

Remote clock offset: -5.346 ms

Below is generated by plot.py at 2018-03-13 11:07:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.57 Mbit/s

95th percentile per-packet one-way delay: 1.127 ms

Loss rate: 0.07%

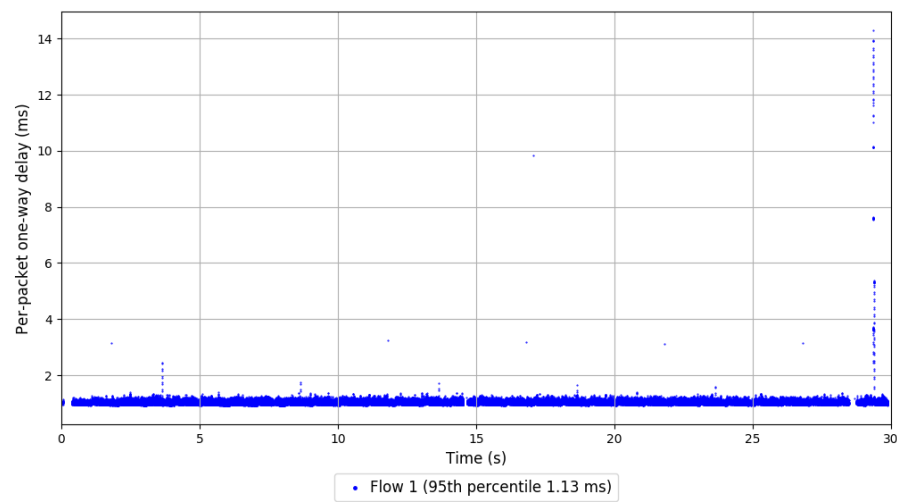
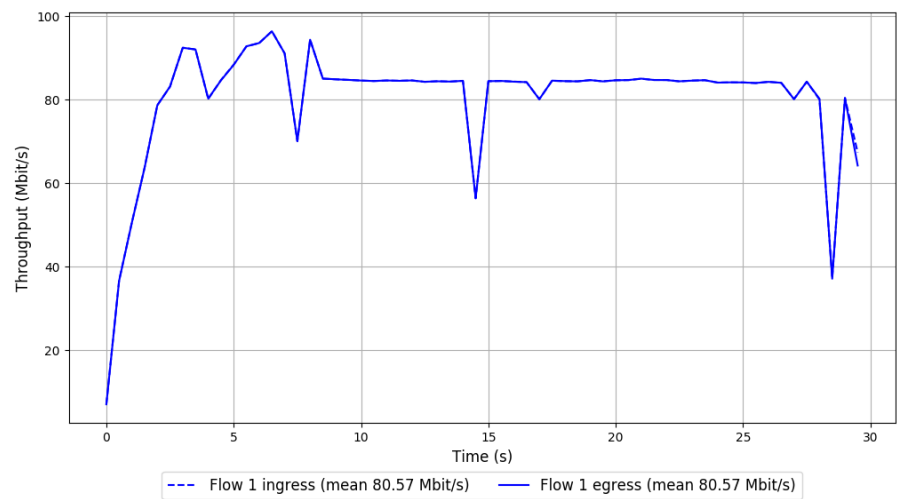
-- Flow 1:

Average throughput: 80.57 Mbit/s

95th percentile per-packet one-way delay: 1.127 ms

Loss rate: 0.07%

Run 10: Report of QUIC Cubic — Data Link

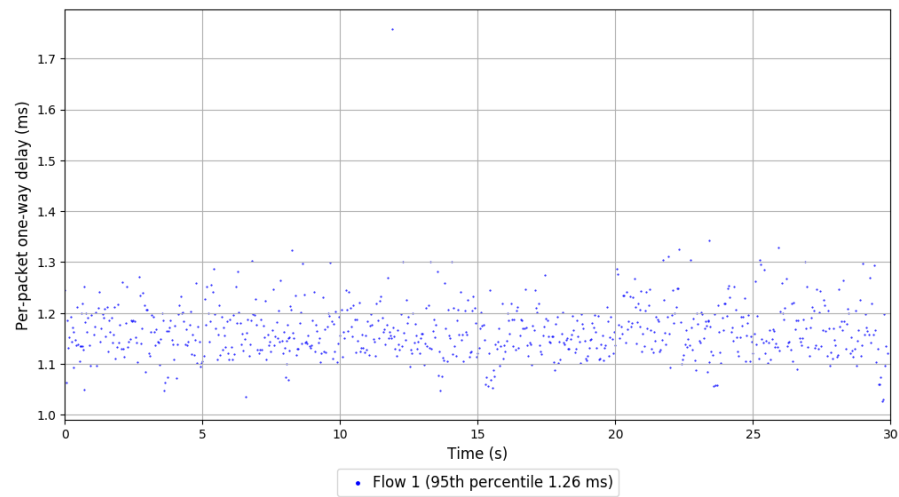
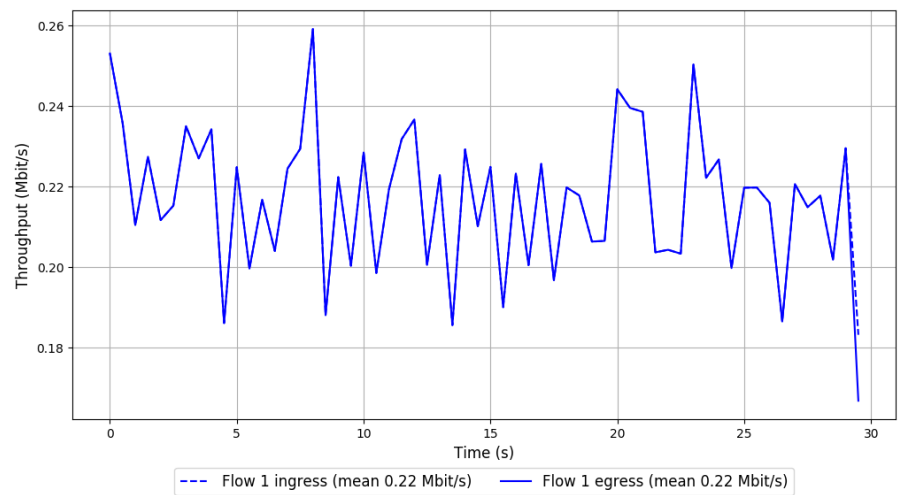


Run 1: Statistics of SCReAM

Start at: 2018-03-13 00:54:13
End at: 2018-03-13 00:54:43
Local clock offset: 0.909 ms
Remote clock offset: -5.293 ms

Below is generated by plot.py at 2018-03-13 11:07:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.256 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.256 ms
Loss rate: 0.13%

Run 1: Report of SReAM — Data Link

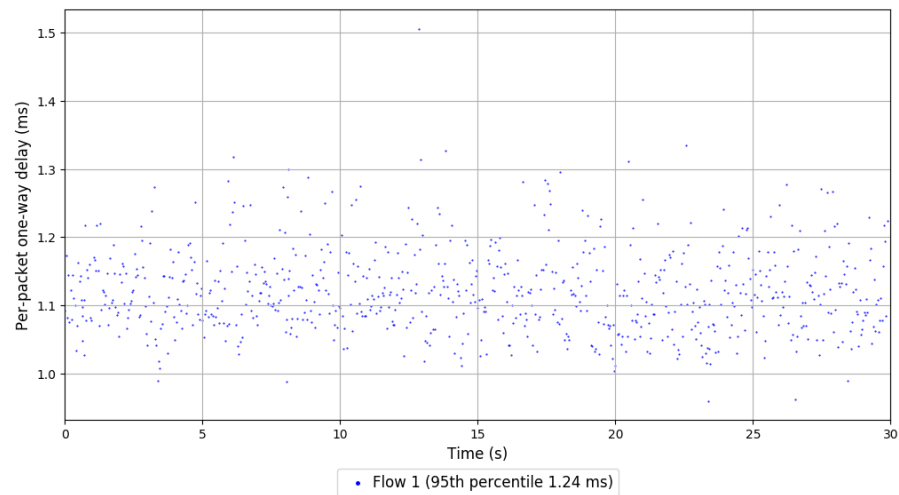
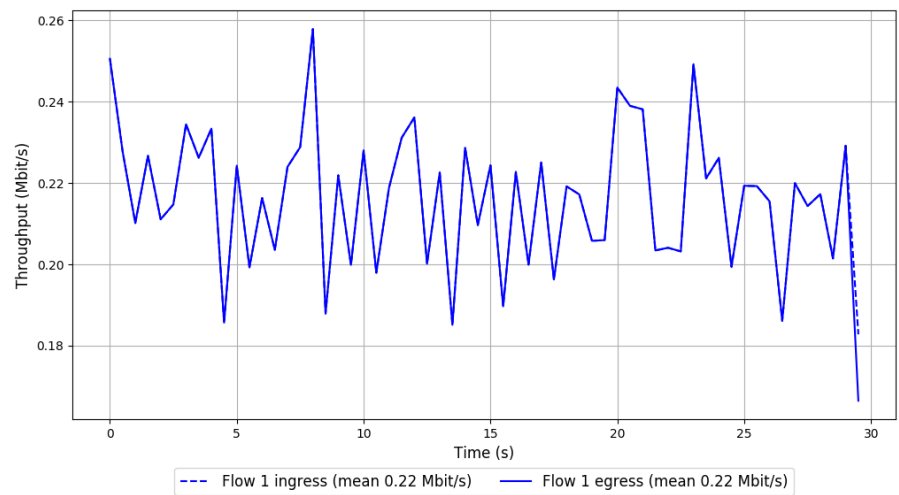


Run 2: Statistics of SCReAM

Start at: 2018-03-13 01:22:22
End at: 2018-03-13 01:22:52
Local clock offset: 1.162 ms
Remote clock offset: -5.994 ms

Below is generated by plot.py at 2018-03-13 11:07:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.239 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.239 ms
Loss rate: 0.13%

Run 2: Report of SReAM — Data Link

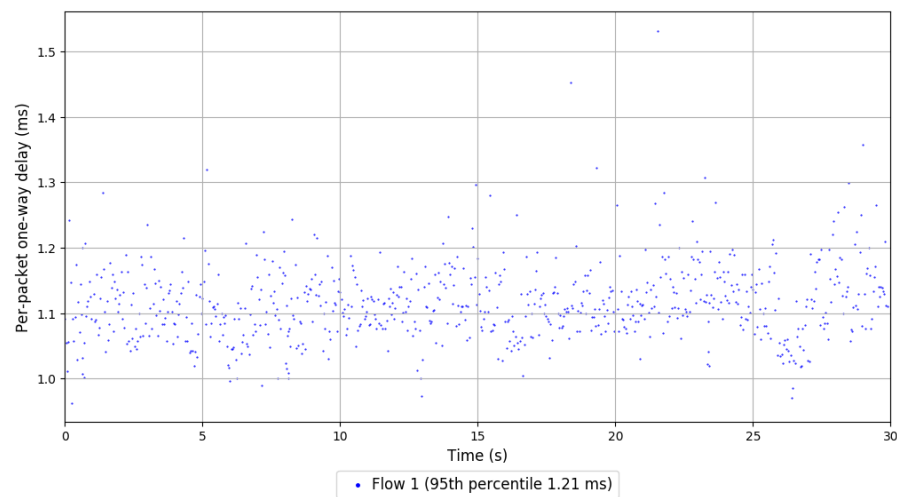
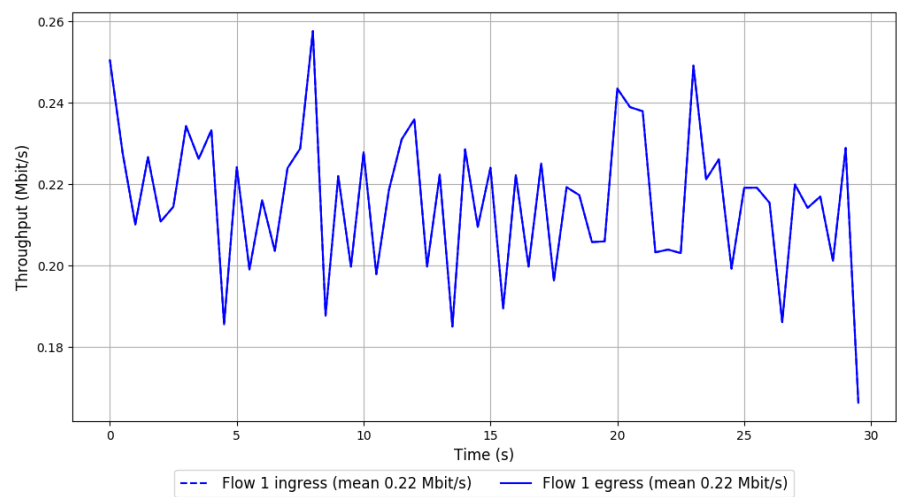


Run 3: Statistics of SCReAM

Start at: 2018-03-13 01:49:59
End at: 2018-03-13 01:50:29
Local clock offset: 0.844 ms
Remote clock offset: -5.804 ms

Below is generated by plot.py at 2018-03-13 11:07:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.207 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.207 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

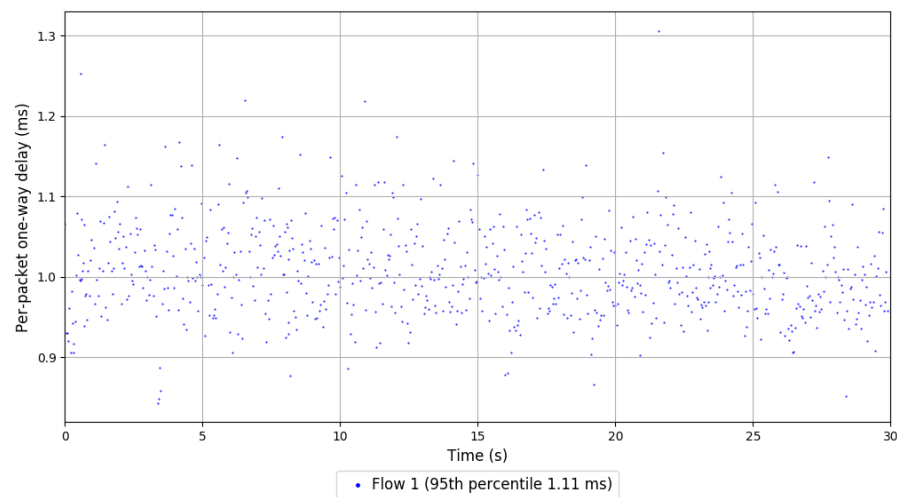
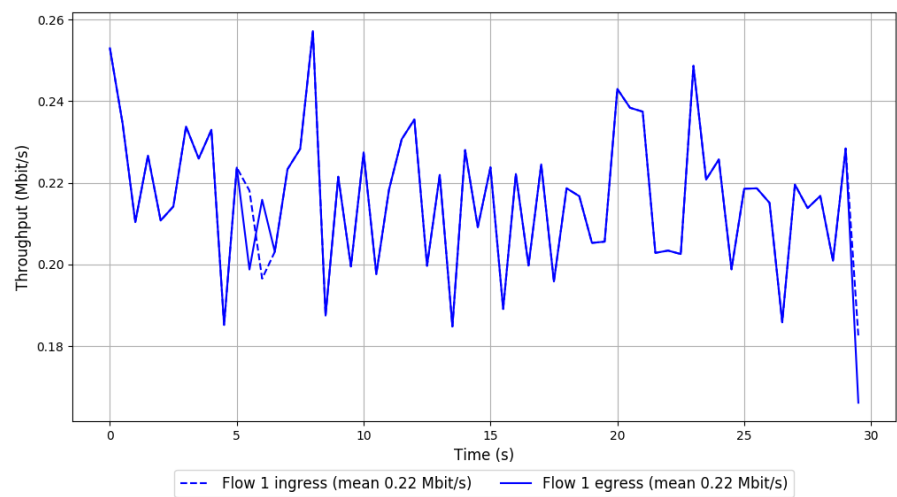


Run 4: Statistics of SCReAM

Start at: 2018-03-13 02:18:09
End at: 2018-03-13 02:18:39
Local clock offset: 0.819 ms
Remote clock offset: -5.152 ms

Below is generated by plot.py at 2018-03-13 11:07:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.107 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.107 ms
Loss rate: 0.13%

Run 4: Report of SReAM — Data Link

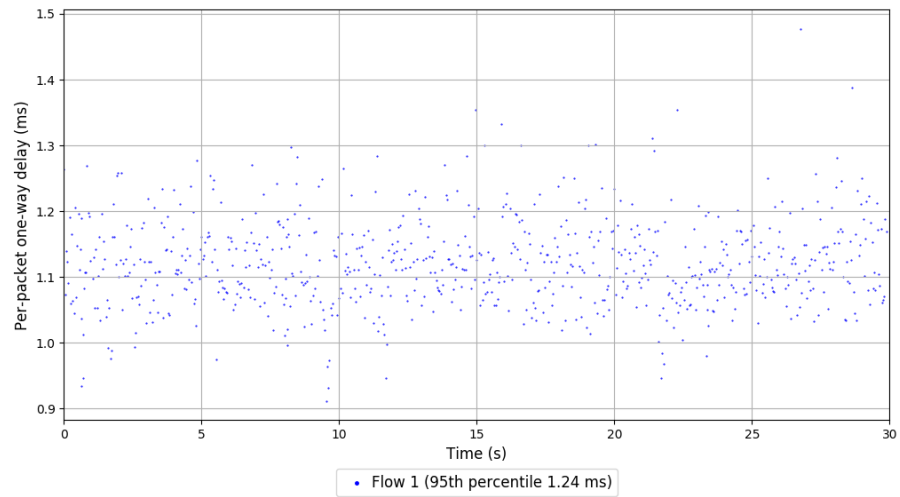
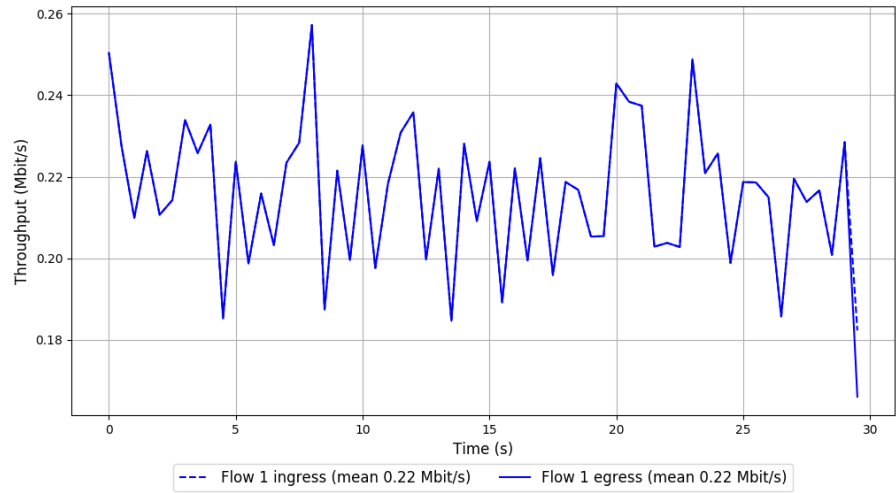


Run 5: Statistics of SCReAM

Start at: 2018-03-13 02:46:03
End at: 2018-03-13 02:46:33
Local clock offset: 1.042 ms
Remote clock offset: -5.234 ms

Below is generated by plot.py at 2018-03-13 11:07:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.237 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.237 ms
Loss rate: 0.13%

Run 5: Report of SReAM — Data Link

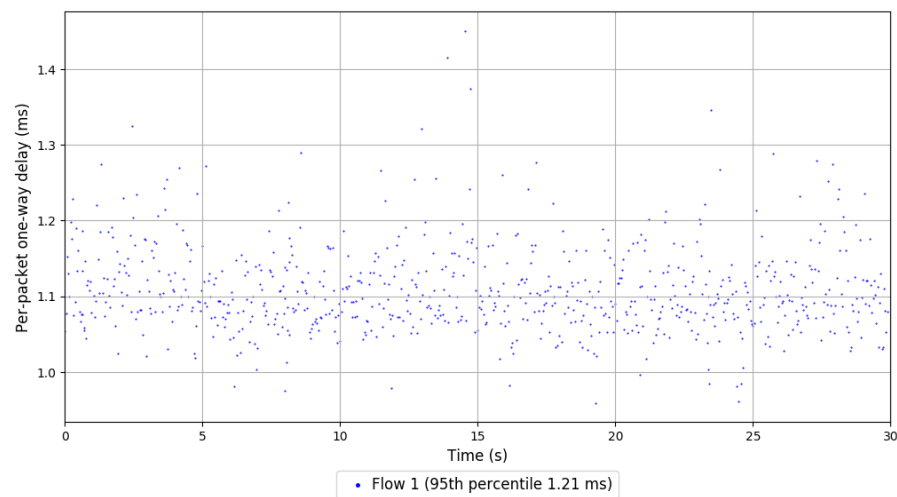
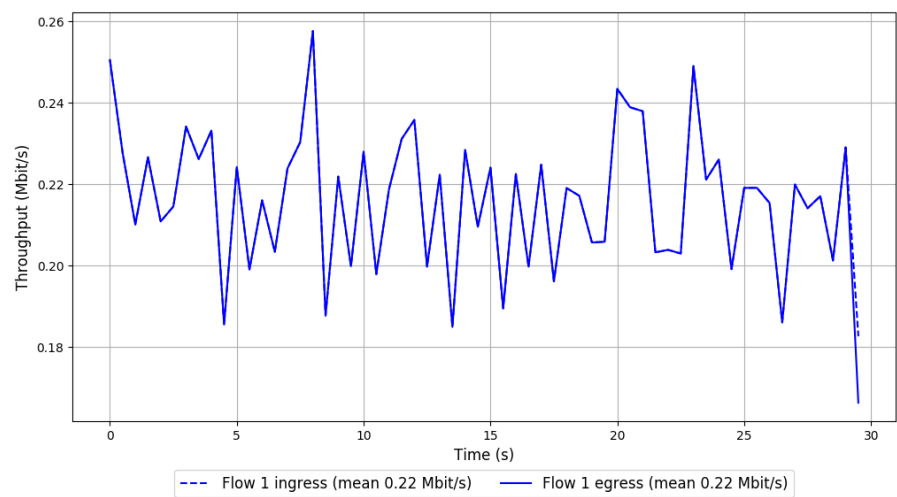


Run 6: Statistics of SCReAM

Start at: 2018-03-13 03:13:48
End at: 2018-03-13 03:14:18
Local clock offset: 1.132 ms
Remote clock offset: -6.389 ms

Below is generated by plot.py at 2018-03-13 11:07:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.213 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.213 ms
Loss rate: 0.13%

Run 6: Report of SReAM — Data Link

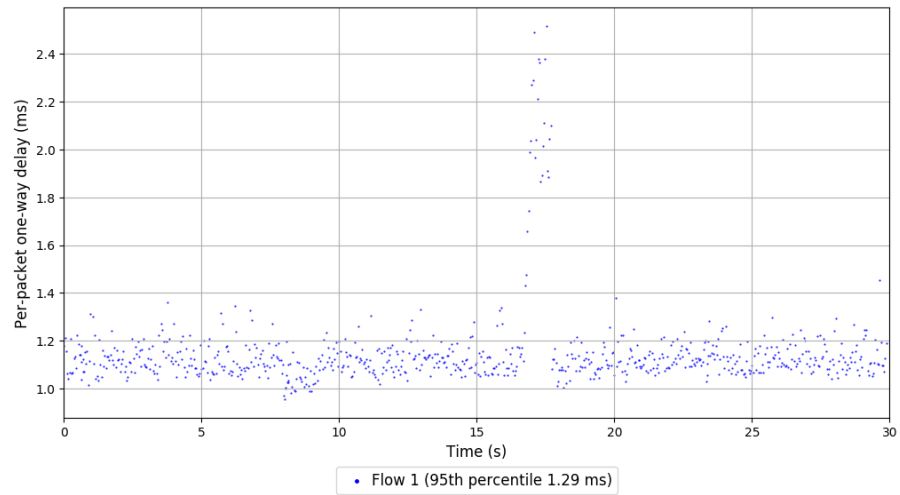
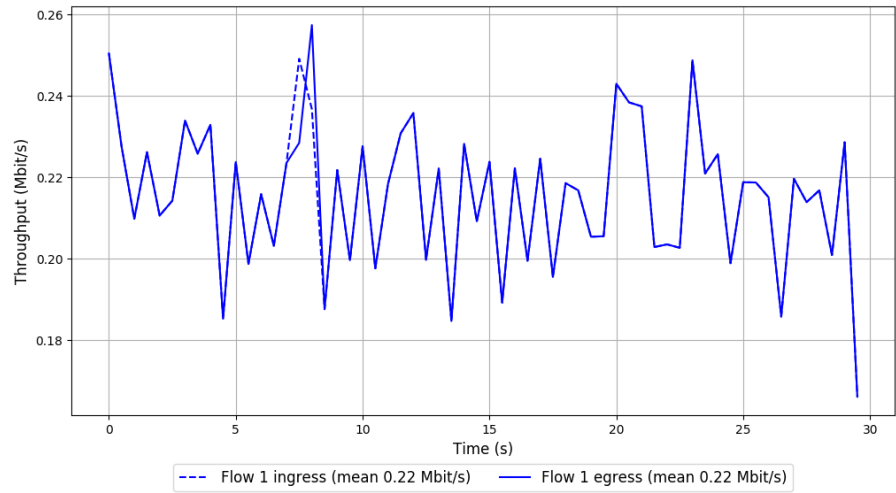


Run 7: Statistics of SCReAM

Start at: 2018-03-13 03:41:25
End at: 2018-03-13 03:41:55
Local clock offset: 1.095 ms
Remote clock offset: -6.122 ms

Below is generated by plot.py at 2018-03-13 11:07:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.288 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.288 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

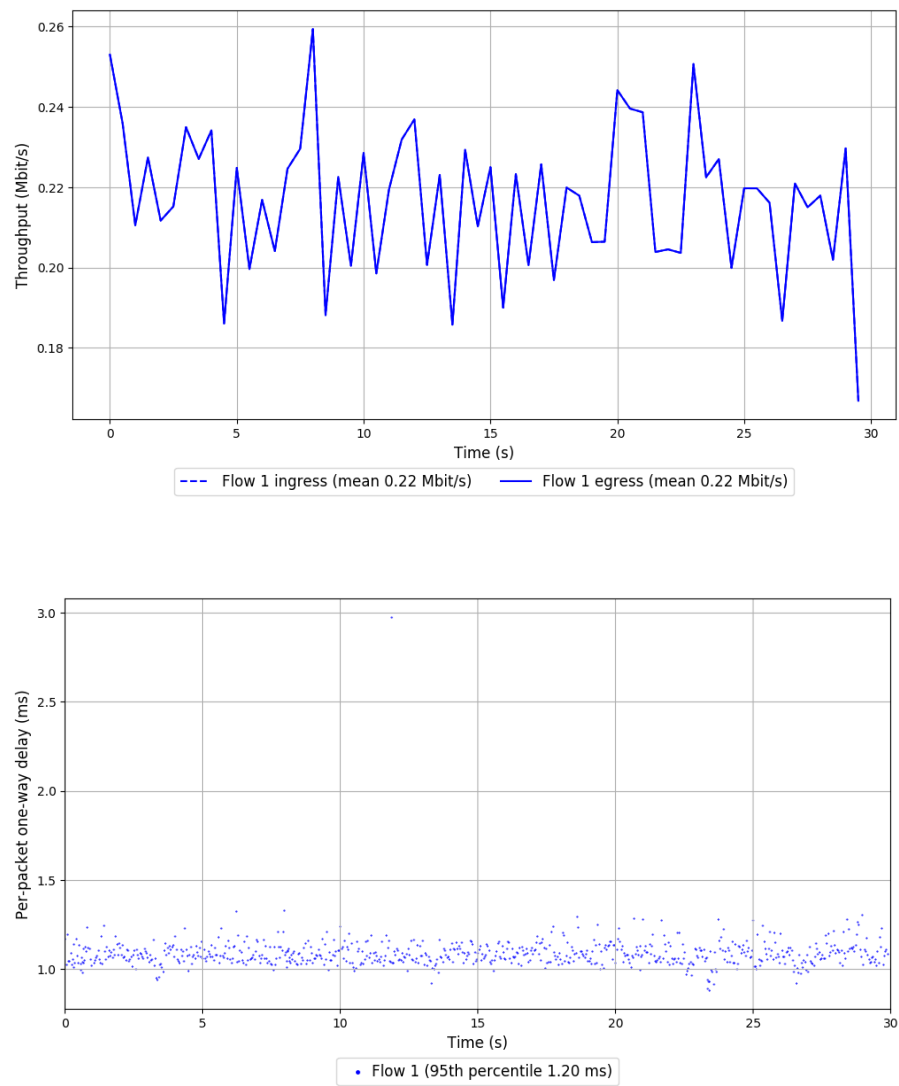


Run 8: Statistics of SCReAM

Start at: 2018-03-13 04:09:19
End at: 2018-03-13 04:09:49
Local clock offset: 1.159 ms
Remote clock offset: -5.893 ms

Below is generated by plot.py at 2018-03-13 11:07:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.199 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.199 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

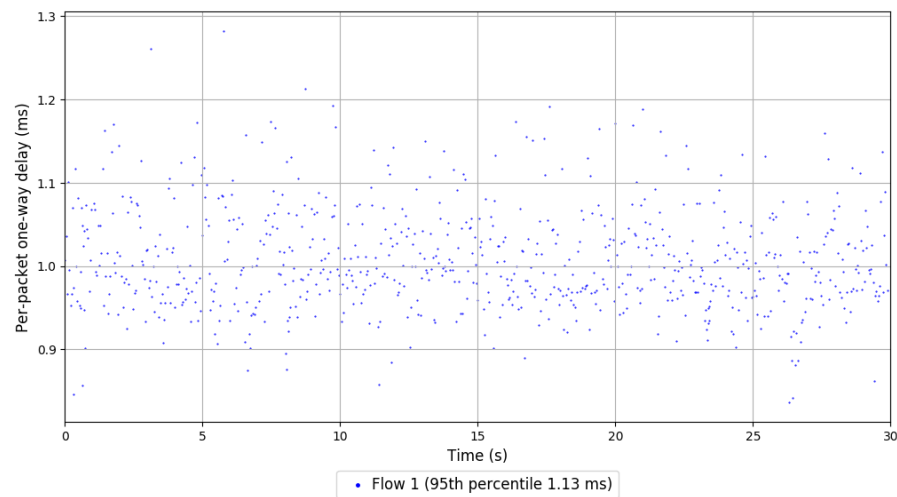
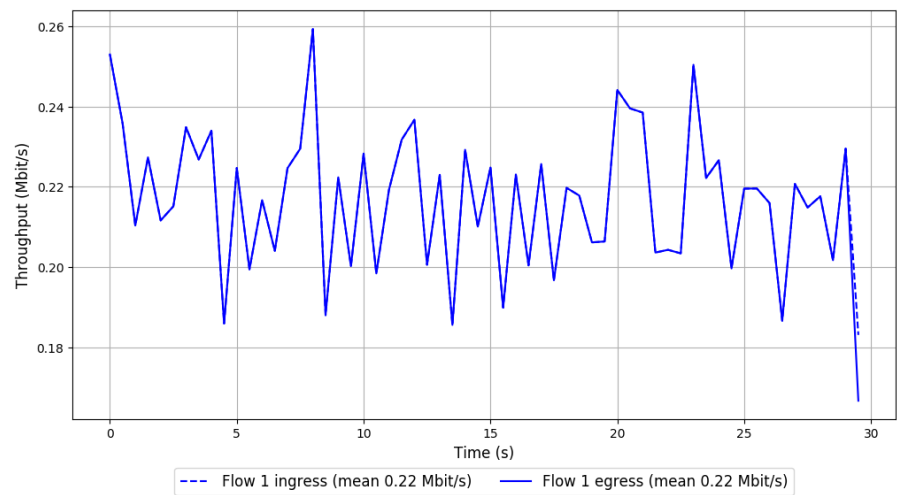


Run 9: Statistics of SCReAM

Start at: 2018-03-13 04:37:16
End at: 2018-03-13 04:37:46
Local clock offset: 1.236 ms
Remote clock offset: -5.588 ms

Below is generated by plot.py at 2018-03-13 11:07:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.128 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.128 ms
Loss rate: 0.13%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-03-13 05:05:08

End at: 2018-03-13 05:05:38

Local clock offset: 1.527 ms

Remote clock offset: -5.587 ms

Below is generated by plot.py at 2018-03-13 11:07:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.171 ms

Loss rate: 0.13%

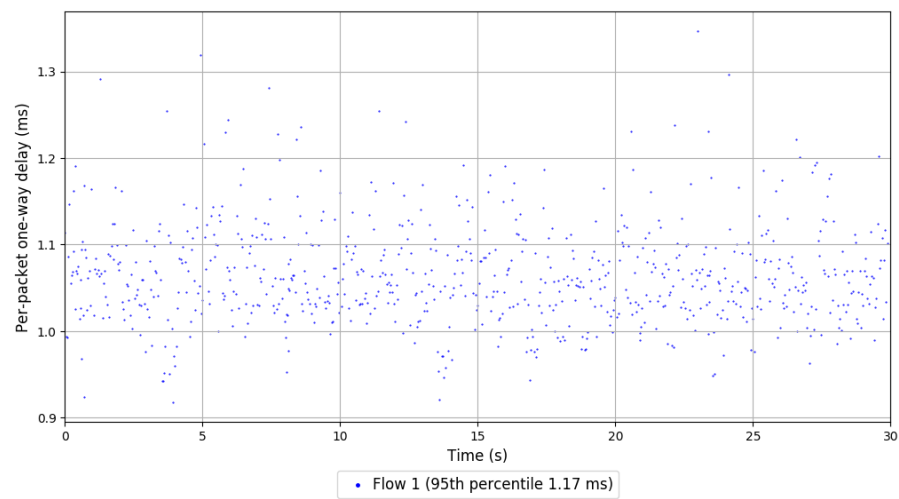
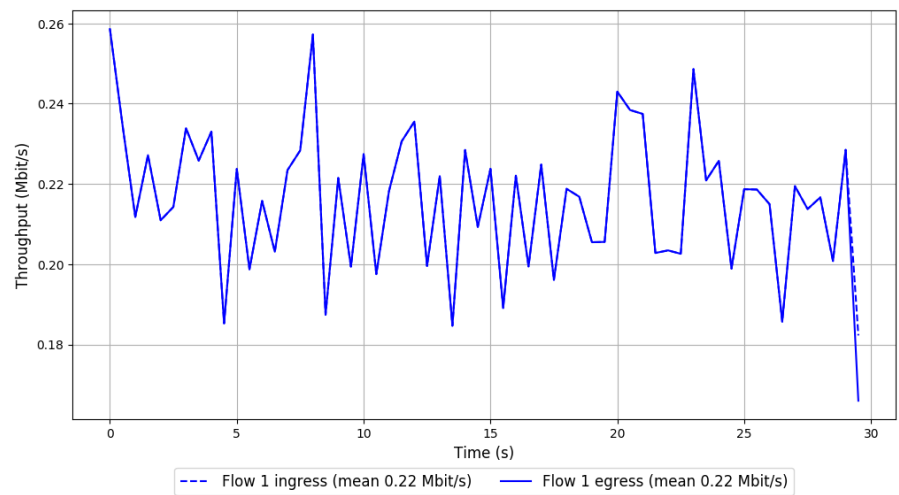
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.171 ms

Loss rate: 0.13%

Run 10: Report of SReAM — Data Link

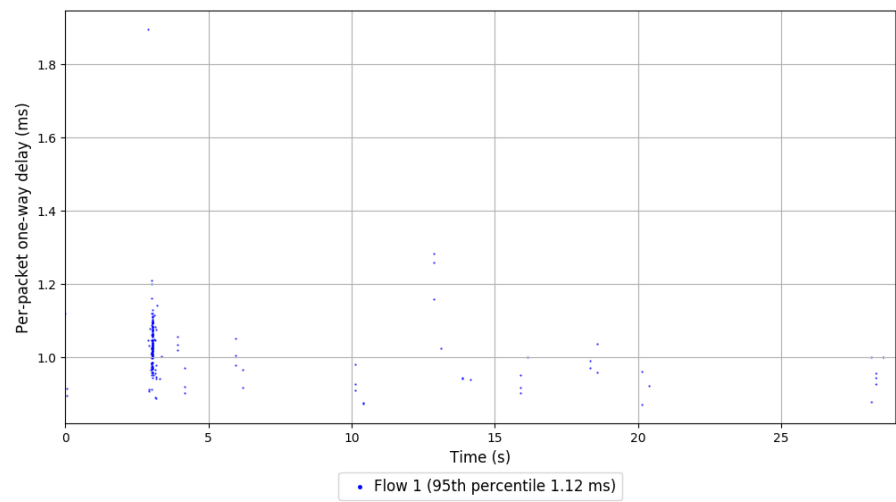
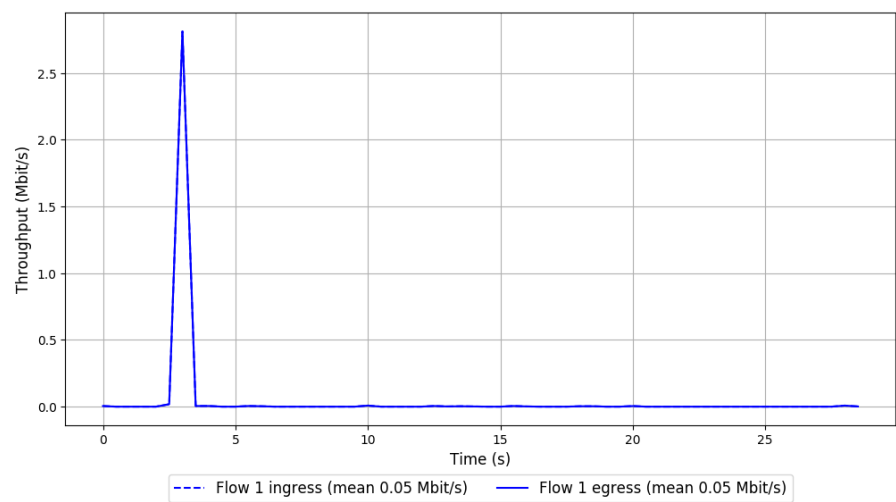


Run 1: Statistics of WebRTC media

Start at: 2018-03-13 01:14:44
End at: 2018-03-13 01:15:14
Local clock offset: 0.982 ms
Remote clock offset: -5.718 ms

Below is generated by plot.py at 2018-03-13 11:07:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.120 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.120 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

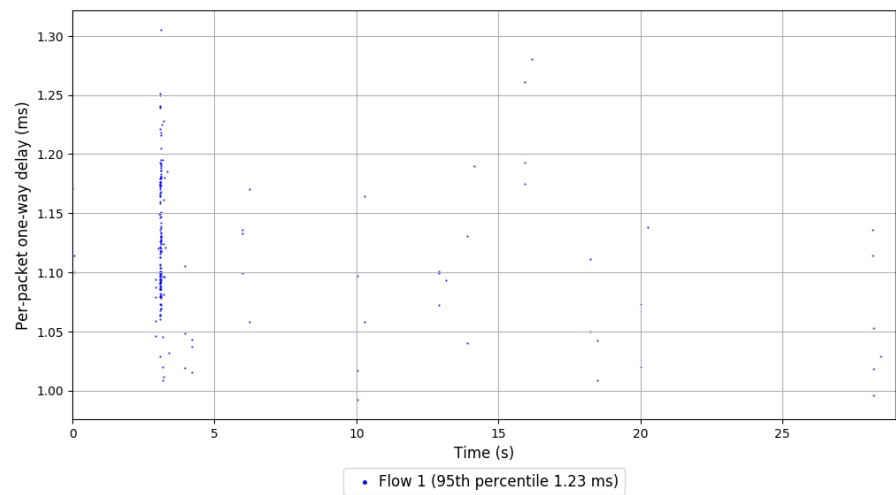
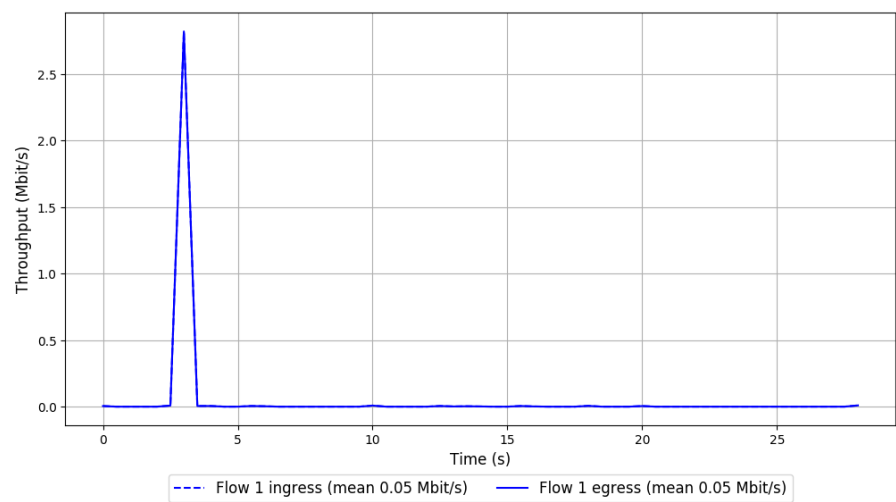


Run 2: Statistics of WebRTC media

Start at: 2018-03-13 01:42:37
End at: 2018-03-13 01:43:07
Local clock offset: 1.016 ms
Remote clock offset: -6.447 ms

Below is generated by plot.py at 2018-03-13 11:07:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.225 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.225 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

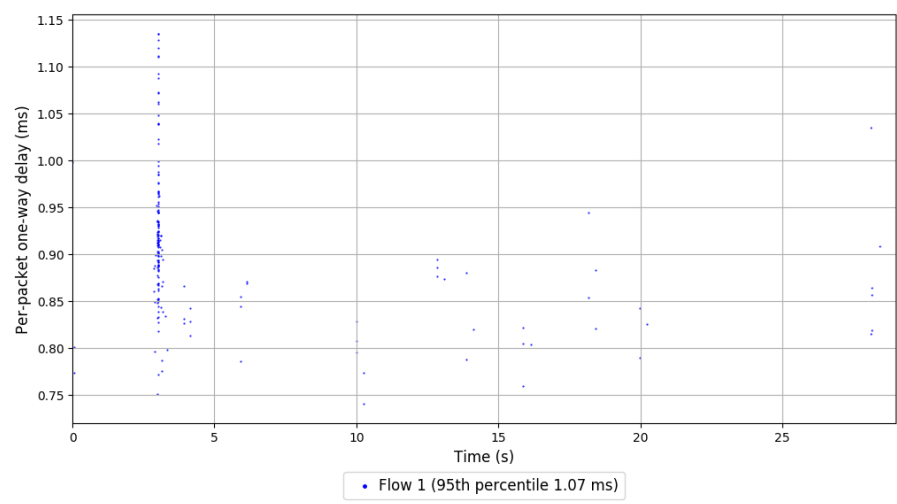
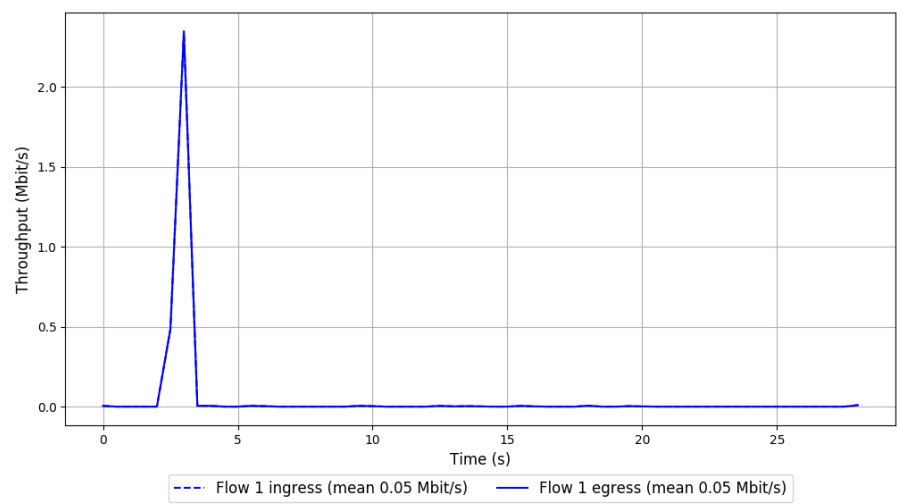


Run 3: Statistics of WebRTC media

Start at: 2018-03-13 02:10:15
End at: 2018-03-13 02:10:45
Local clock offset: 0.691 ms
Remote clock offset: -5.189 ms

Below is generated by plot.py at 2018-03-13 11:07:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.072 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.072 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

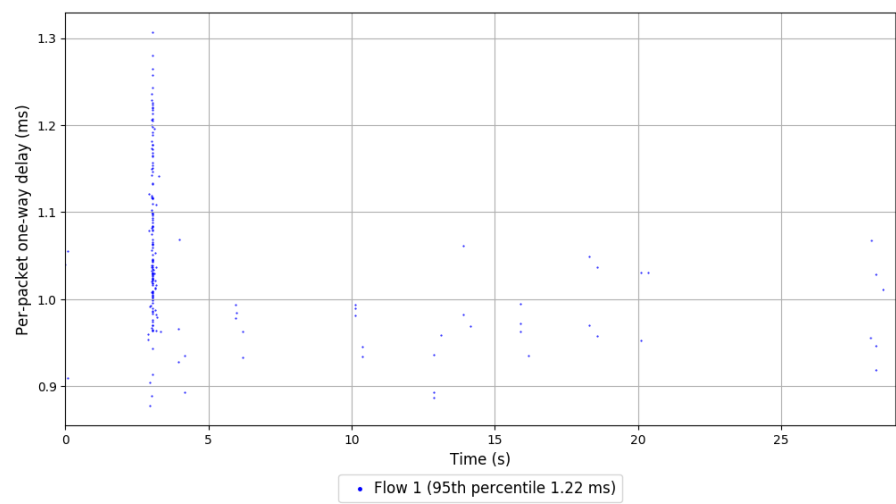
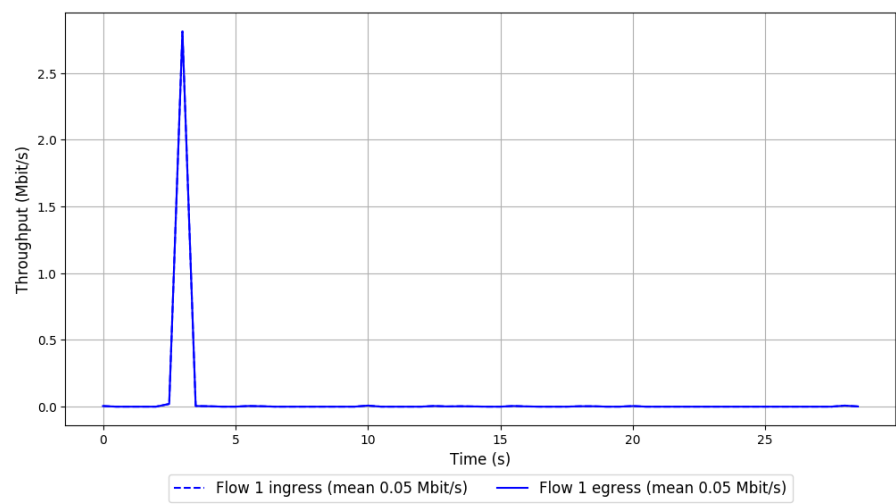


Run 4: Statistics of WebRTC media

Start at: 2018-03-13 02:38:22
End at: 2018-03-13 02:38:52
Local clock offset: 0.933 ms
Remote clock offset: -5.349 ms

Below is generated by plot.py at 2018-03-13 11:07:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.221 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.221 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-03-13 03:06:10

End at: 2018-03-13 03:06:40

Local clock offset: 1.009 ms

Remote clock offset: -6.21 ms

Below is generated by plot.py at 2018-03-13 11:07:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.068 ms

Loss rate: 0.00%

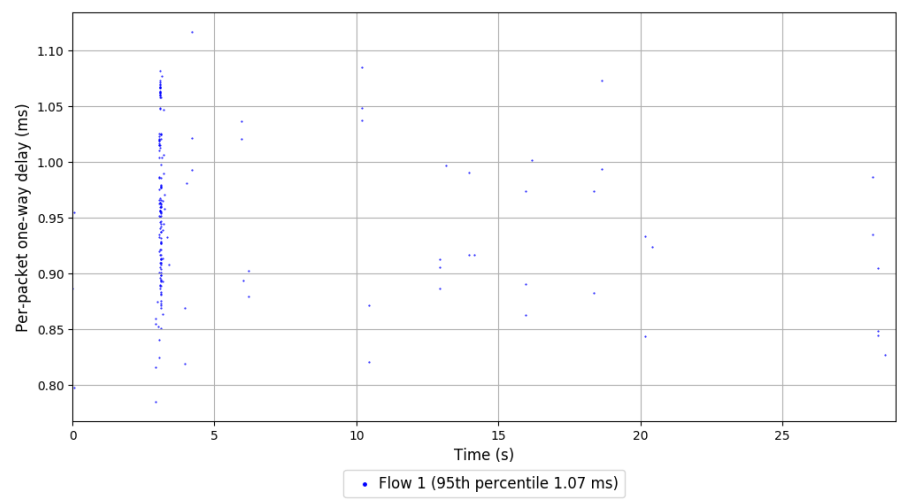
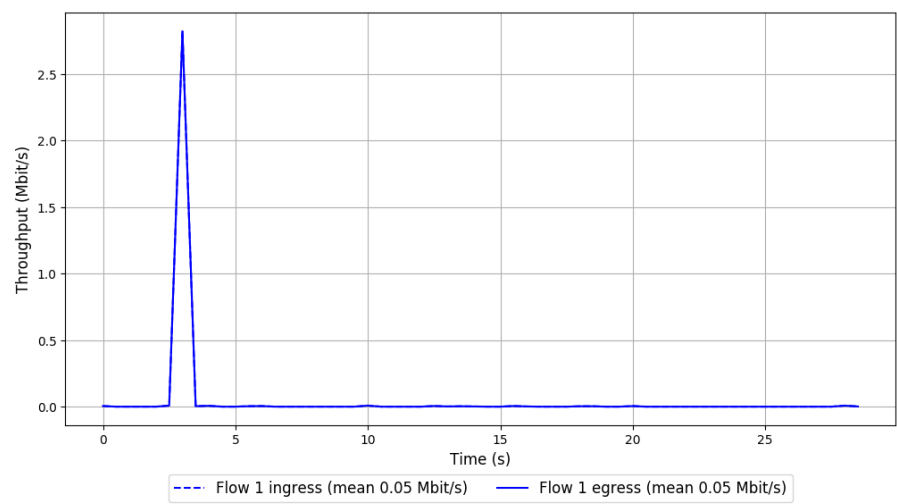
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.068 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

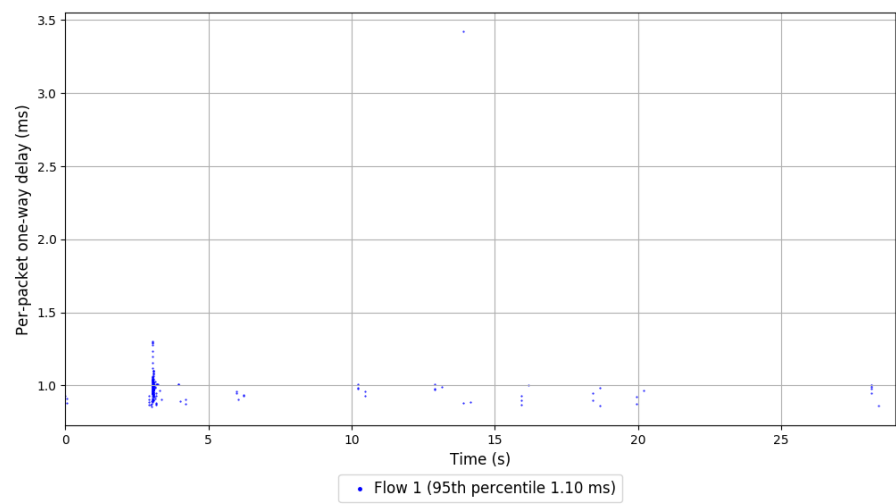
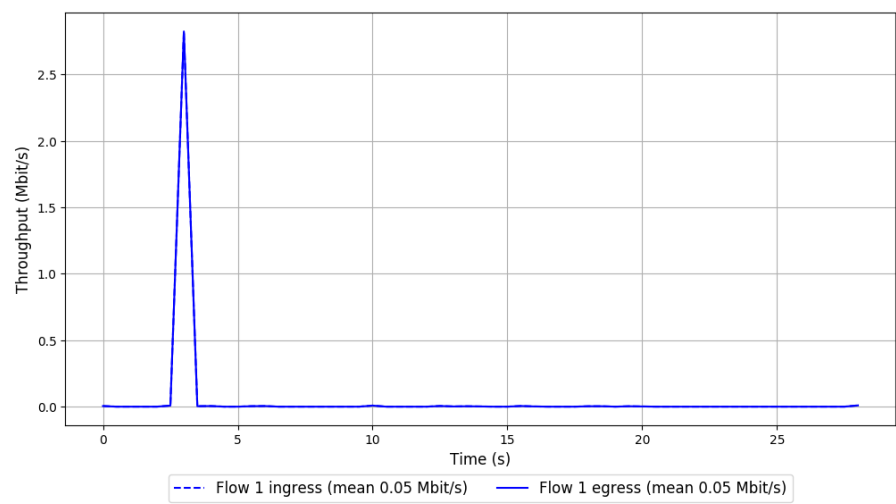


Run 6: Statistics of WebRTC media

Start at: 2018-03-13 03:33:46
End at: 2018-03-13 03:34:16
Local clock offset: 1.016 ms
Remote clock offset: -6.265 ms

Below is generated by plot.py at 2018-03-13 11:07:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.101 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.101 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

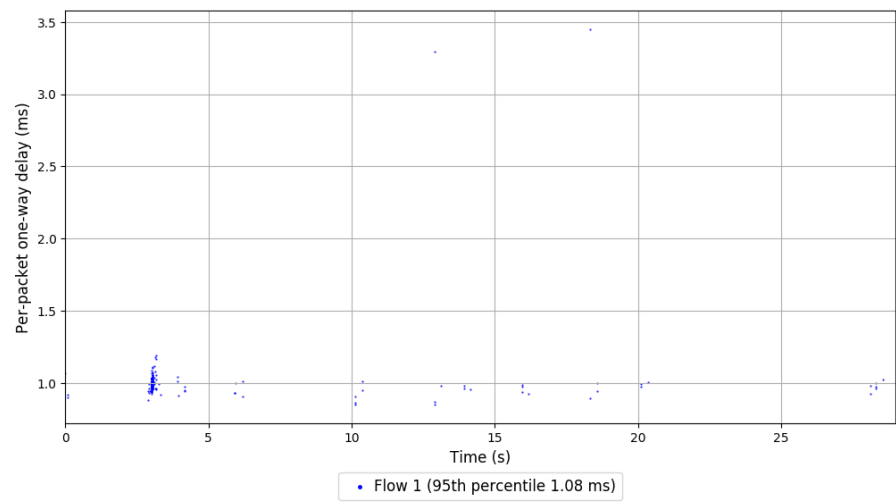
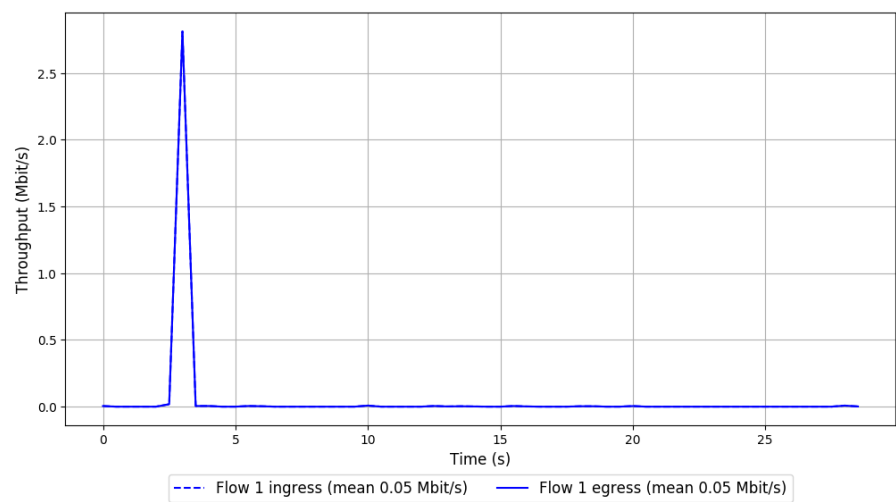


Run 7: Statistics of WebRTC media

Start at: 2018-03-13 04:01:42
End at: 2018-03-13 04:02:12
Local clock offset: 1.188 ms
Remote clock offset: -5.907 ms

Below is generated by plot.py at 2018-03-13 11:07:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.082 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.082 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

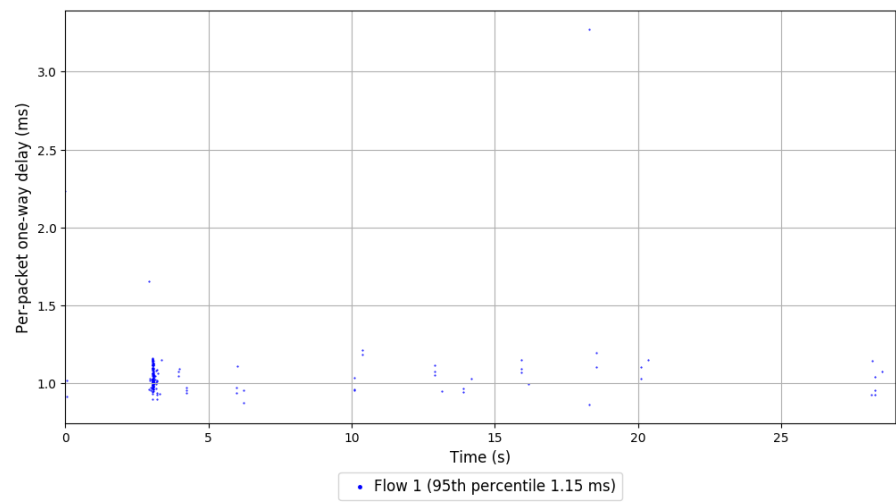
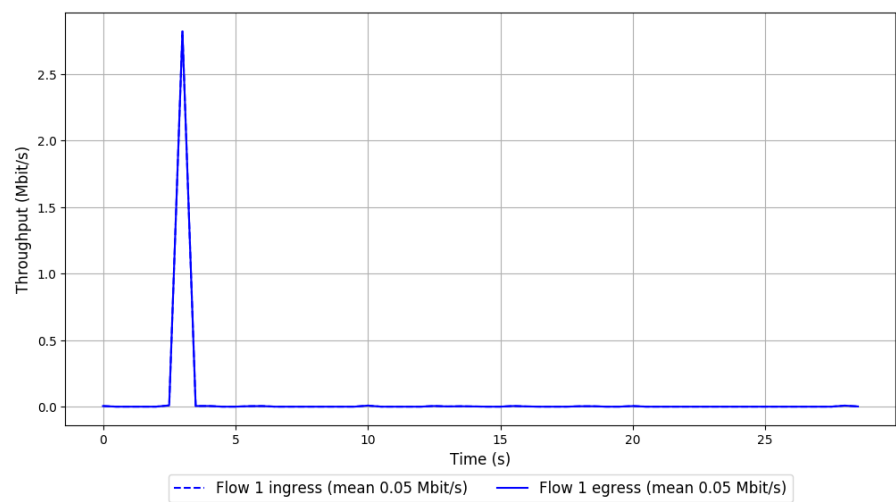


Run 8: Statistics of WebRTC media

Start at: 2018-03-13 04:29:37
End at: 2018-03-13 04:30:07
Local clock offset: 1.233 ms
Remote clock offset: -5.716 ms

Below is generated by plot.py at 2018-03-13 11:07:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.153 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.153 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

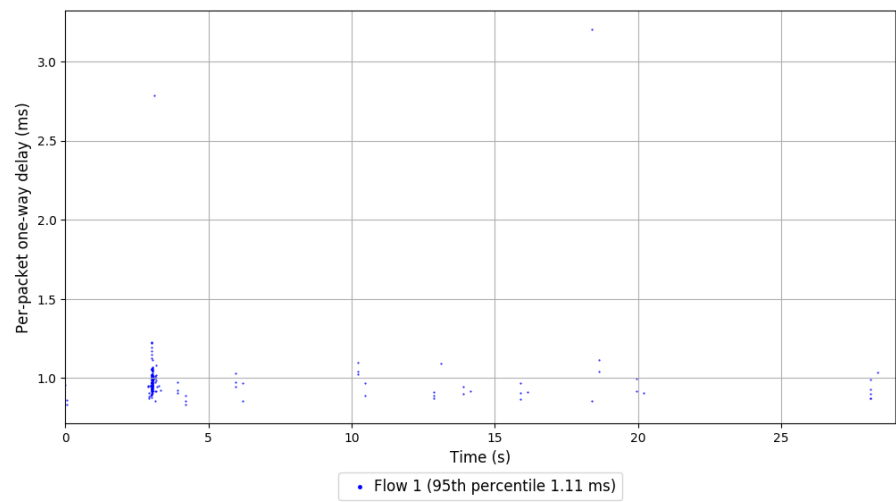
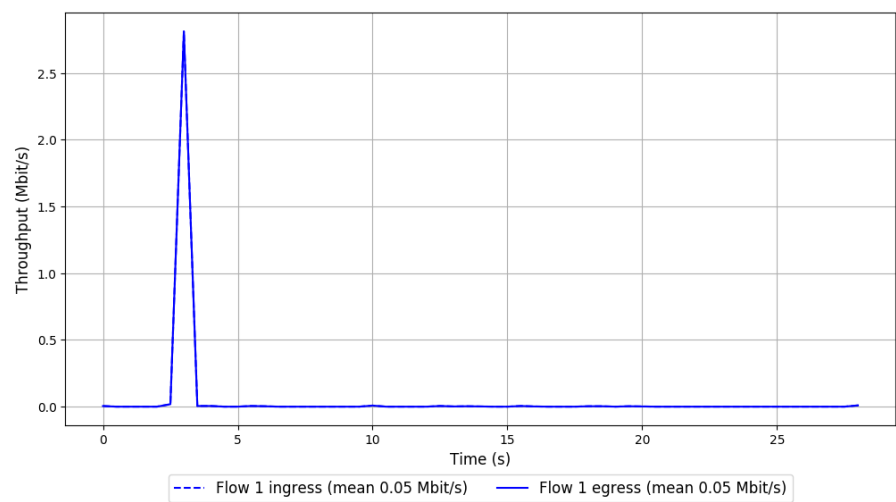


Run 9: Statistics of WebRTC media

Start at: 2018-03-13 04:57:32
End at: 2018-03-13 04:58:02
Local clock offset: 1.253 ms
Remote clock offset: -5.599 ms

Below is generated by plot.py at 2018-03-13 11:07:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.113 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.113 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-03-13 05:25:07

End at: 2018-03-13 05:25:37

Local clock offset: 1.966 ms

Remote clock offset: -5.242 ms

Below is generated by plot.py at 2018-03-13 11:07:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.232 ms

Loss rate: 0.00%

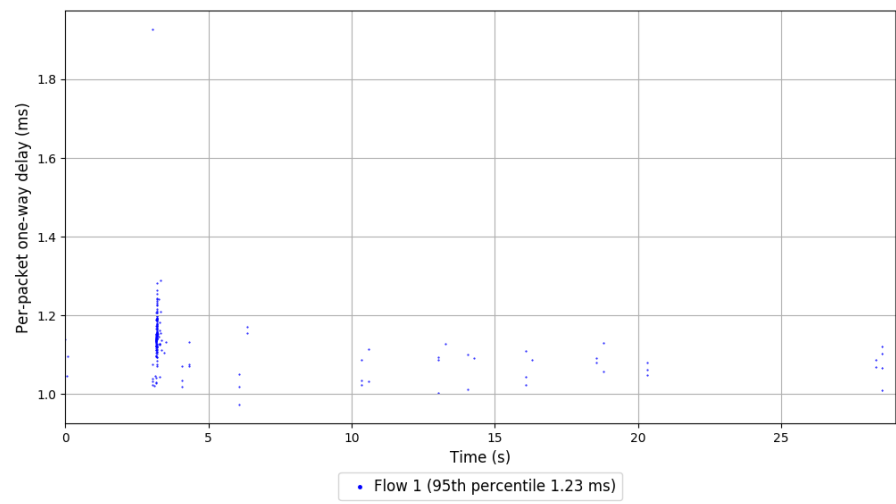
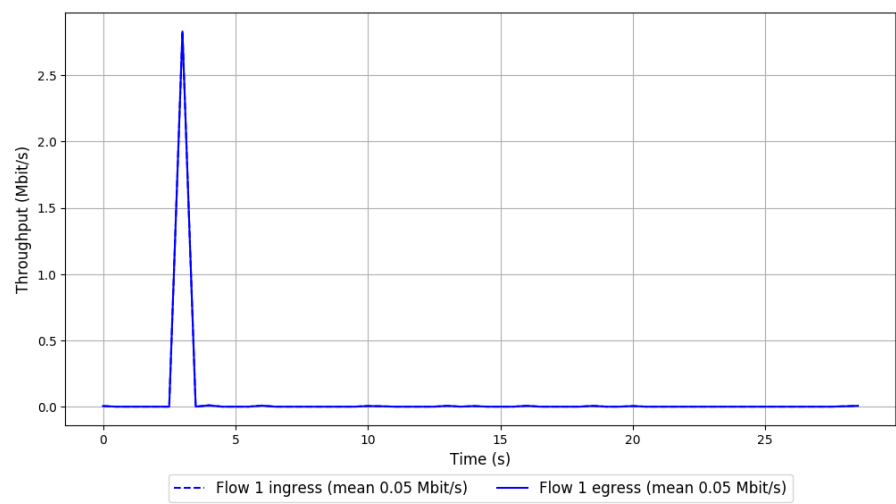
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.232 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-03-13 01:02:28

End at: 2018-03-13 01:02:58

Local clock offset: 0.828 ms

Remote clock offset: -5.266 ms

Below is generated by plot.py at 2018-03-13 11:07:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.91 Mbit/s

95th percentile per-packet one-way delay: 1.155 ms

Loss rate: 0.14%

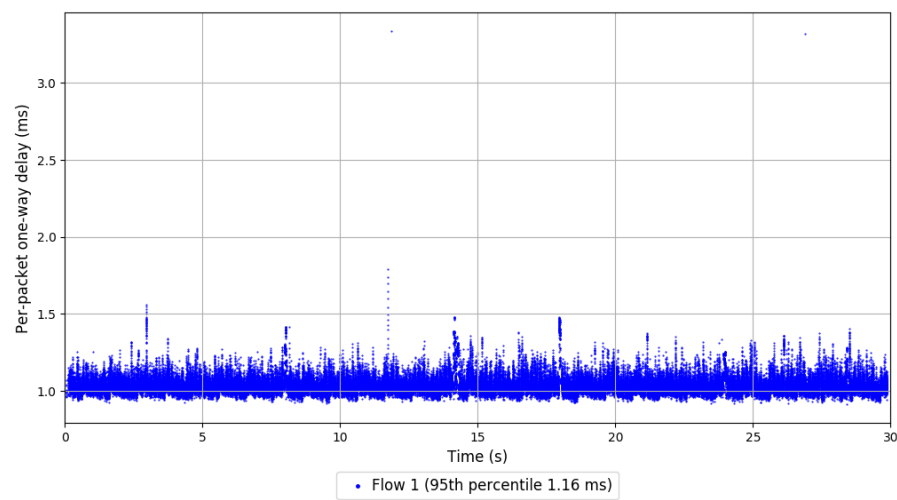
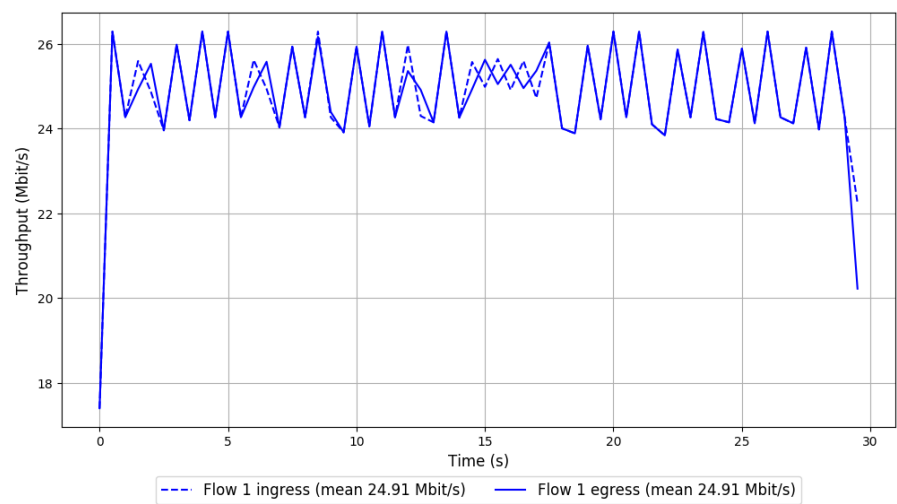
-- Flow 1:

Average throughput: 24.91 Mbit/s

95th percentile per-packet one-way delay: 1.155 ms

Loss rate: 0.14%

Run 1: Report of Sprout — Data Link

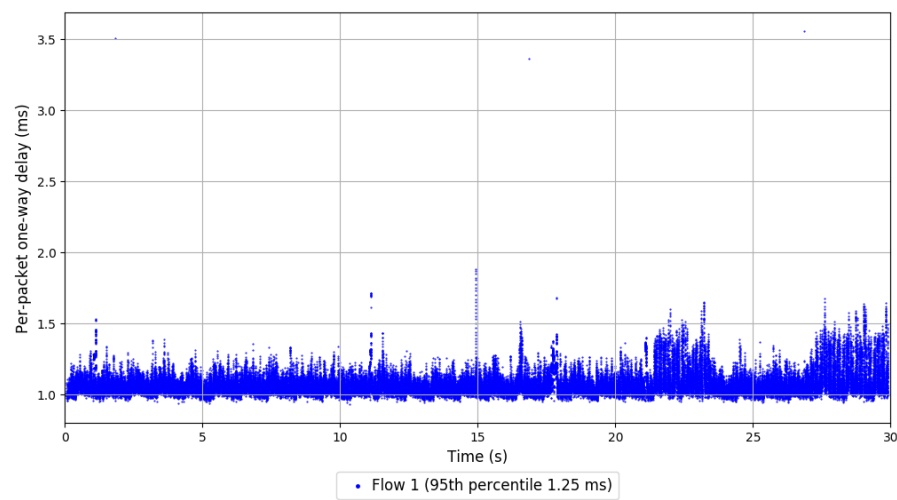
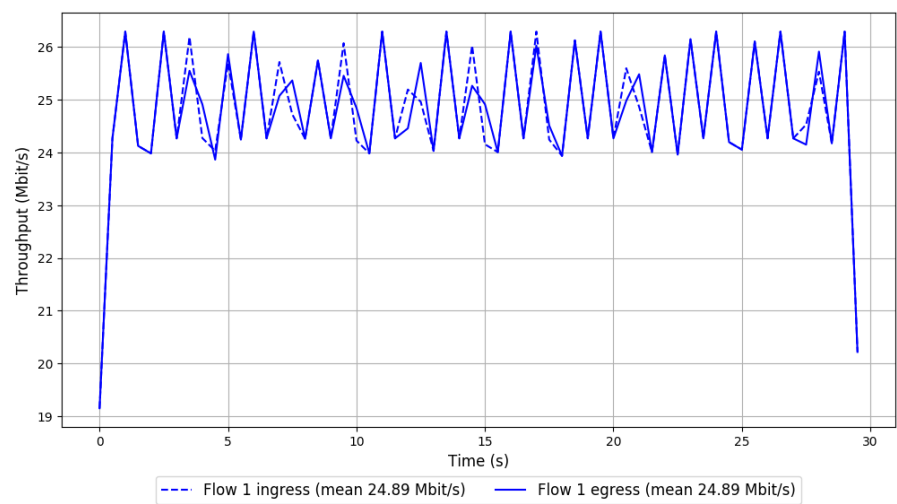


Run 2: Statistics of Sprout

Start at: 2018-03-13 01:30:24
End at: 2018-03-13 01:30:55
Local clock offset: 1.175 ms
Remote clock offset: -6.223 ms

Below is generated by plot.py at 2018-03-13 11:07:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.89 Mbit/s
95th percentile per-packet one-way delay: 1.245 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.89 Mbit/s
95th percentile per-packet one-way delay: 1.245 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

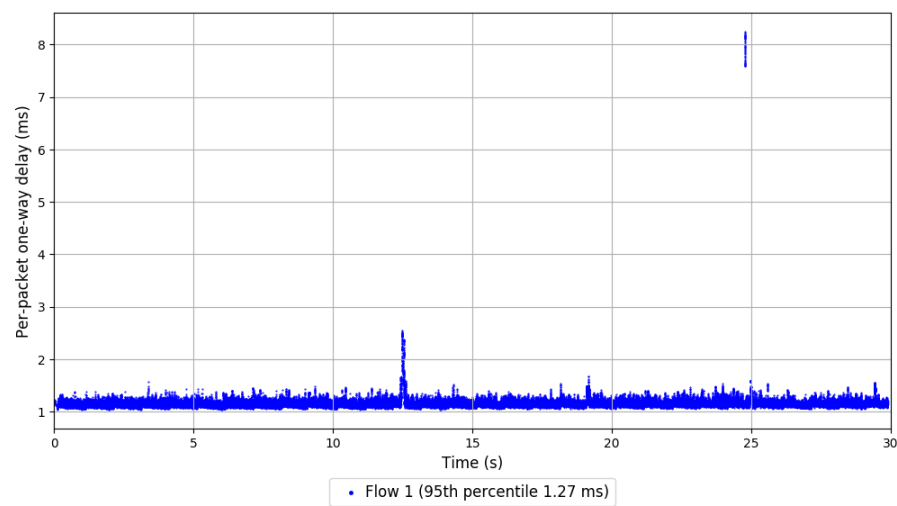
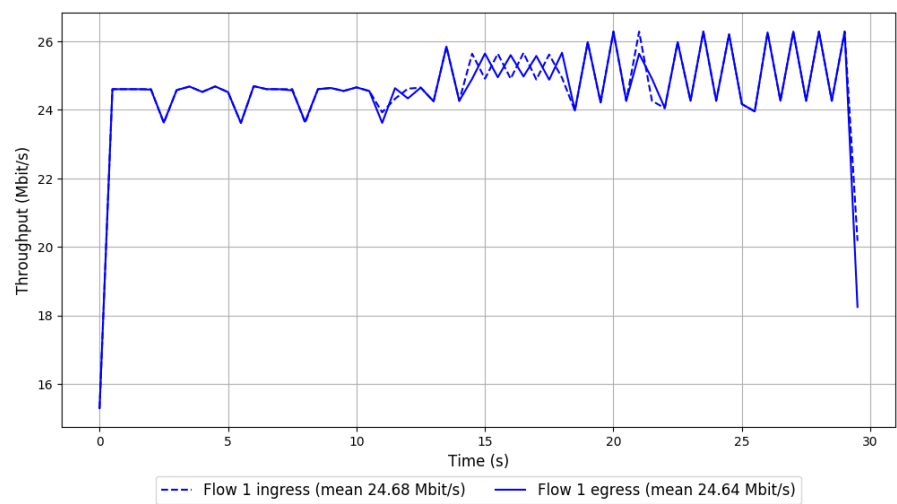


Run 3: Statistics of Sprout

Start at: 2018-03-13 01:58:06
End at: 2018-03-13 01:58:36
Local clock offset: 0.849 ms
Remote clock offset: -5.472 ms

Below is generated by plot.py at 2018-03-13 11:07:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.64 Mbit/s
95th percentile per-packet one-way delay: 1.268 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 24.64 Mbit/s
95th percentile per-packet one-way delay: 1.268 ms
Loss rate: 0.15%

Run 3: Report of Sprout — Data Link

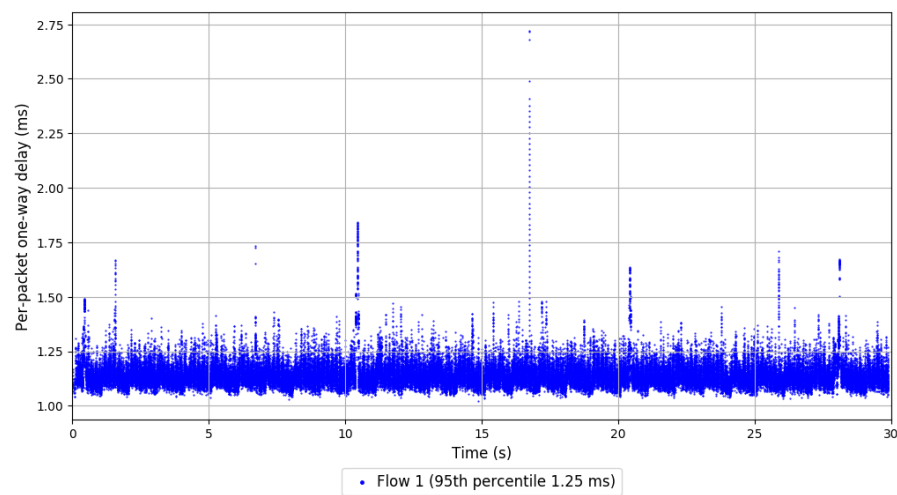
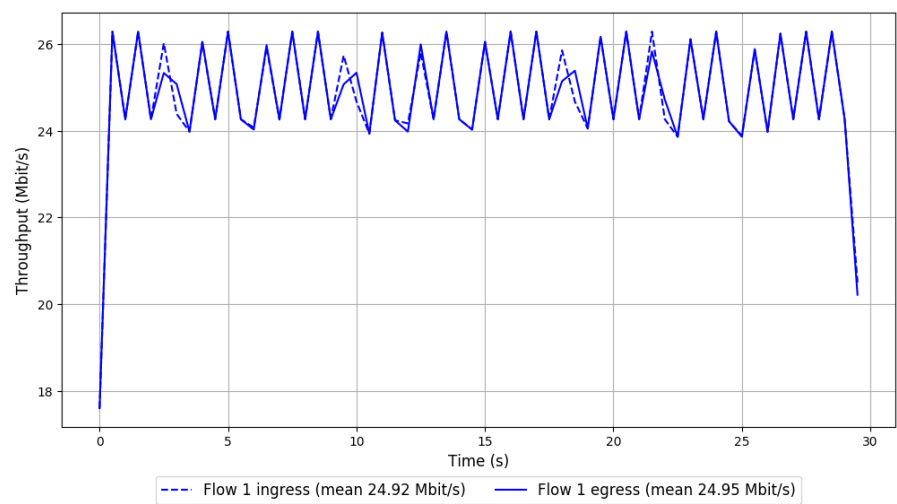


Run 4: Statistics of Sprout

Start at: 2018-03-13 02:26:14
End at: 2018-03-13 02:26:44
Local clock offset: 0.973 ms
Remote clock offset: -5.313 ms

Below is generated by plot.py at 2018-03-13 11:07:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.95 Mbit/s
95th percentile per-packet one-way delay: 1.249 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 24.95 Mbit/s
95th percentile per-packet one-way delay: 1.249 ms
Loss rate: 0.02%

Run 4: Report of Sprout — Data Link

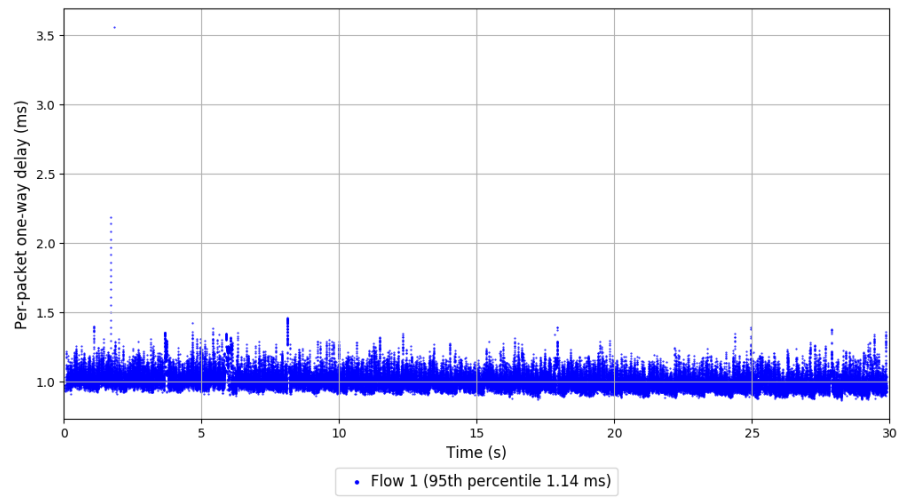
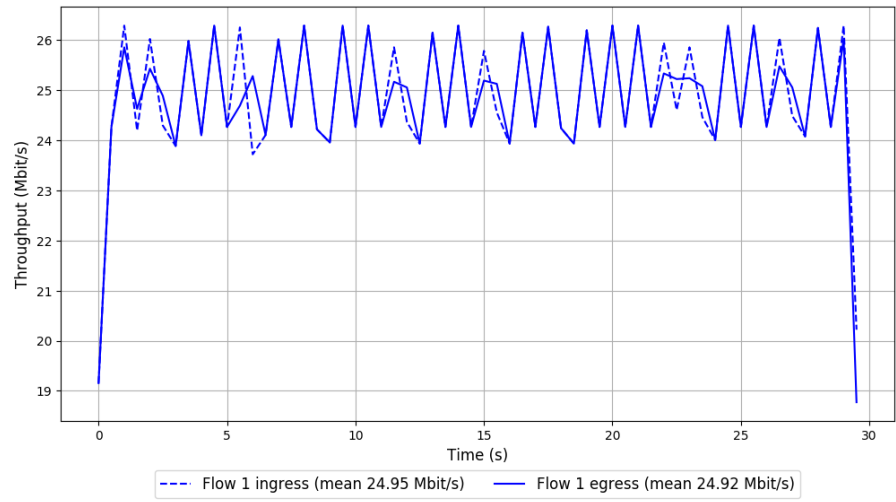


Run 5: Statistics of Sprout

Start at: 2018-03-13 02:54:06
End at: 2018-03-13 02:54:36
Local clock offset: 0.979 ms
Remote clock offset: -5.606 ms

Below is generated by plot.py at 2018-03-13 11:07:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.92 Mbit/s
95th percentile per-packet one-way delay: 1.137 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 24.92 Mbit/s
95th percentile per-packet one-way delay: 1.137 ms
Loss rate: 0.12%

Run 5: Report of Sprout — Data Link

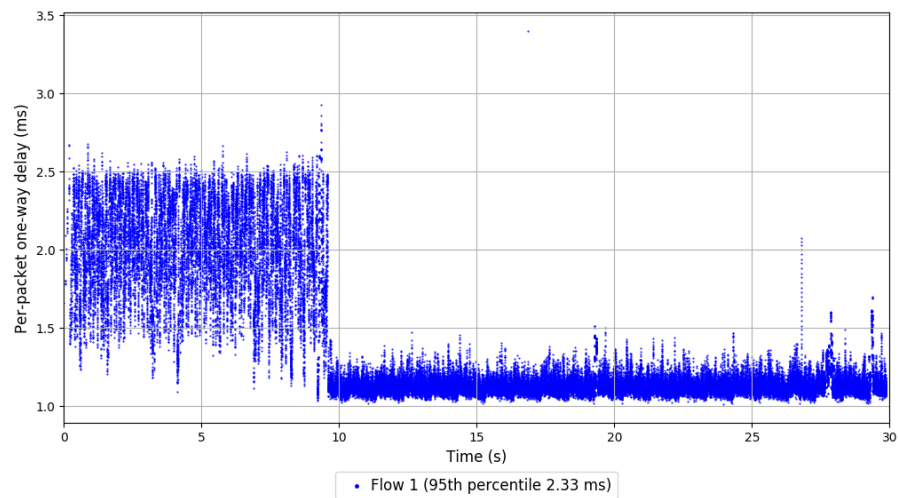
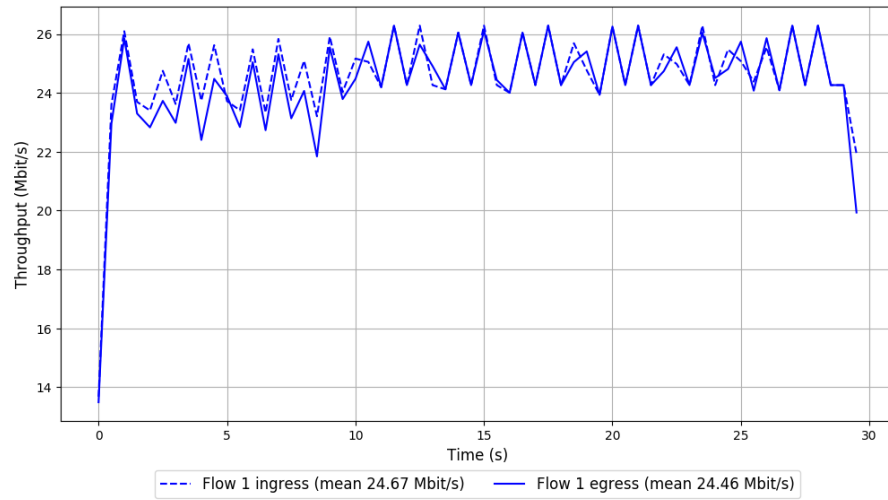


Run 6: Statistics of Sprout

Start at: 2018-03-13 03:21:44
End at: 2018-03-13 03:22:14
Local clock offset: 1.106 ms
Remote clock offset: -6.563 ms

Below is generated by plot.py at 2018-03-13 11:07:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.46 Mbit/s
95th percentile per-packet one-way delay: 2.333 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 24.46 Mbit/s
95th percentile per-packet one-way delay: 2.333 ms
Loss rate: 0.97%

Run 6: Report of Sprout — Data Link

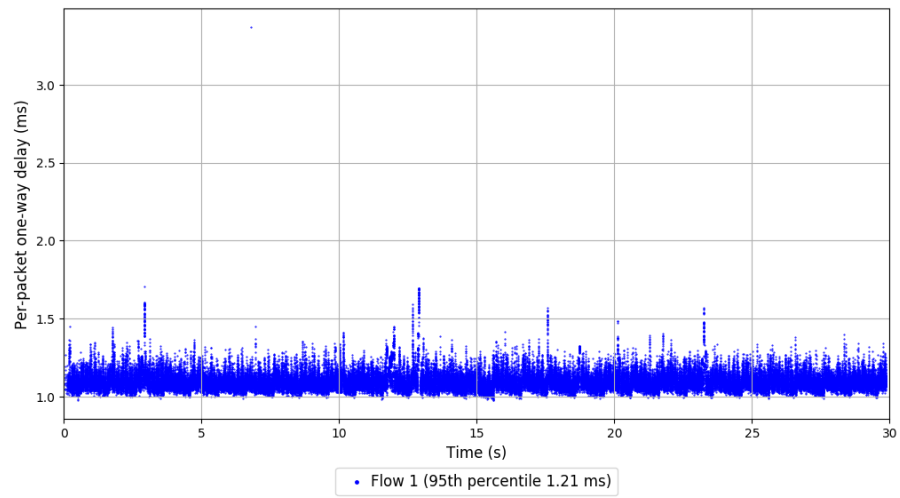
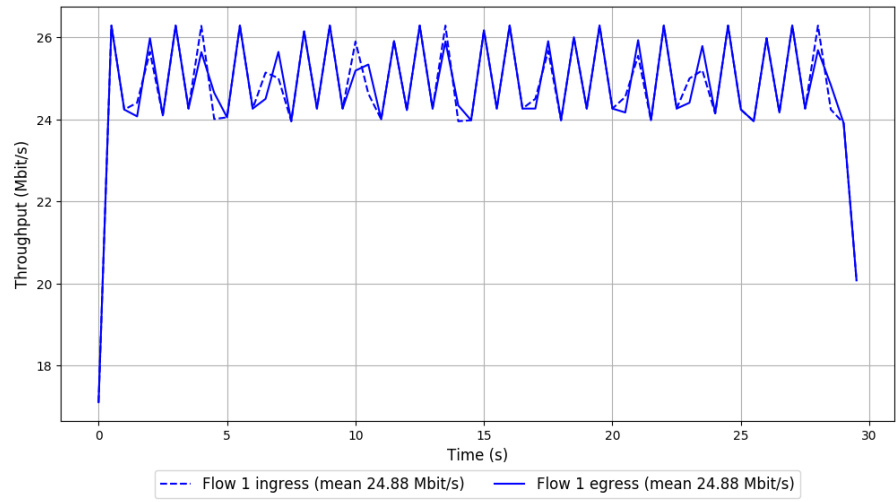


Run 7: Statistics of Sprout

Start at: 2018-03-13 03:49:30
End at: 2018-03-13 03:50:00
Local clock offset: 1.109 ms
Remote clock offset: -6.076 ms

Below is generated by plot.py at 2018-03-13 11:07:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.88 Mbit/s
95th percentile per-packet one-way delay: 1.212 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.88 Mbit/s
95th percentile per-packet one-way delay: 1.212 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

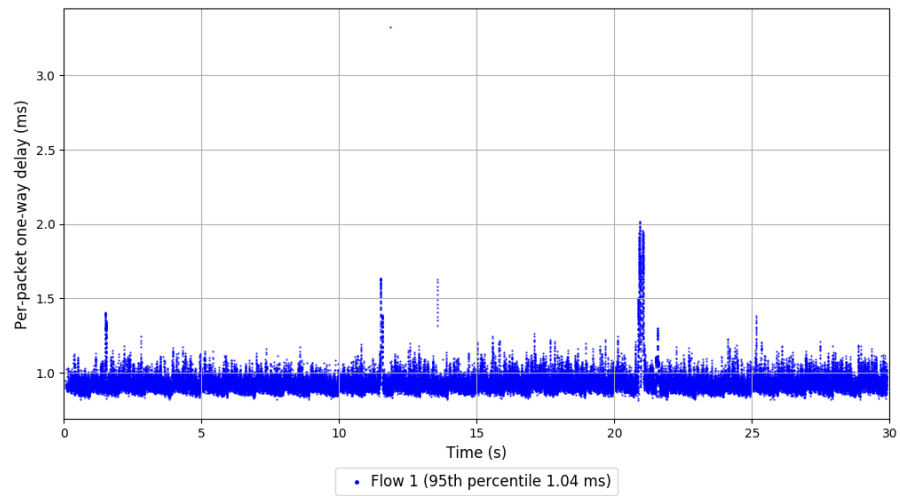
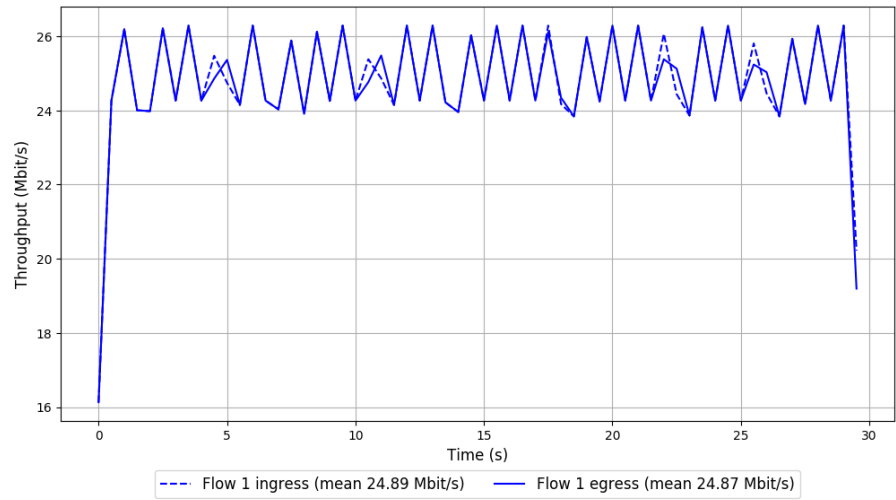


Run 8: Statistics of Sprout

Start at: 2018-03-13 04:17:21
End at: 2018-03-13 04:17:51
Local clock offset: 1.188 ms
Remote clock offset: -5.705 ms

Below is generated by plot.py at 2018-03-13 11:07:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.87 Mbit/s
95th percentile per-packet one-way delay: 1.042 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 24.87 Mbit/s
95th percentile per-packet one-way delay: 1.042 ms
Loss rate: 0.07%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-03-13 04:45:29

End at: 2018-03-13 04:45:59

Local clock offset: 1.321 ms

Remote clock offset: -5.68 ms

Below is generated by plot.py at 2018-03-13 11:07:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.88 Mbit/s

95th percentile per-packet one-way delay: 1.215 ms

Loss rate: 0.13%

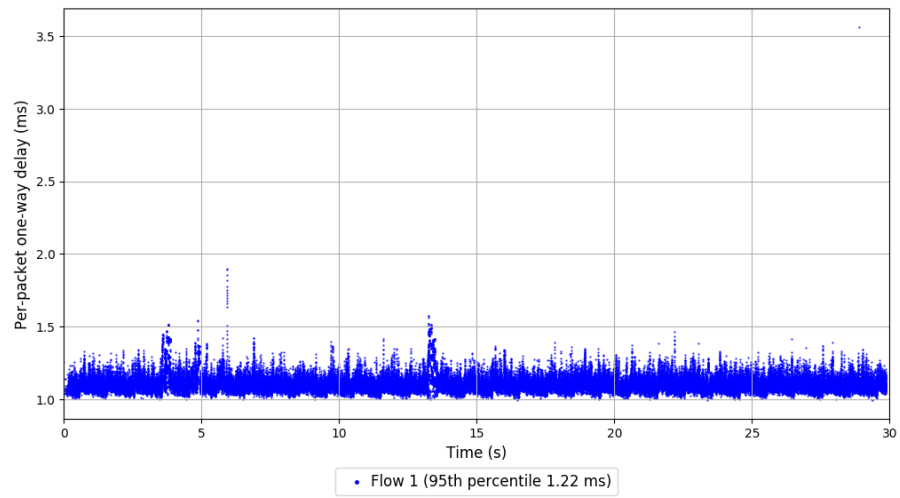
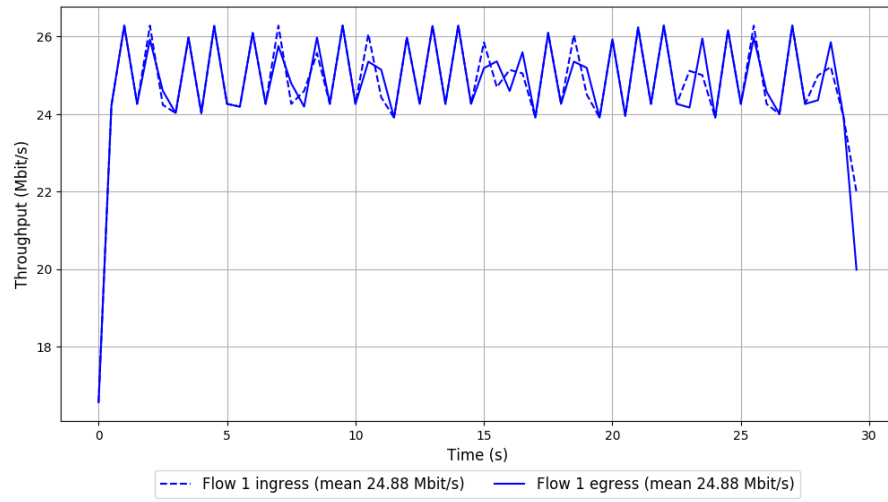
-- Flow 1:

Average throughput: 24.88 Mbit/s

95th percentile per-packet one-way delay: 1.215 ms

Loss rate: 0.13%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-03-13 05:13:02

End at: 2018-03-13 05:13:32

Local clock offset: 1.743 ms

Remote clock offset: -5.43 ms

Below is generated by plot.py at 2018-03-13 11:07:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.89 Mbit/s

95th percentile per-packet one-way delay: 1.132 ms

Loss rate: 0.14%

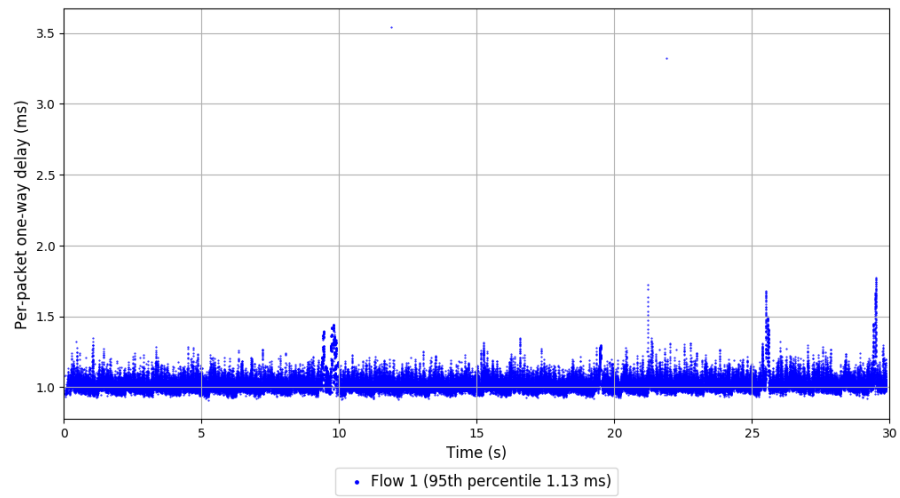
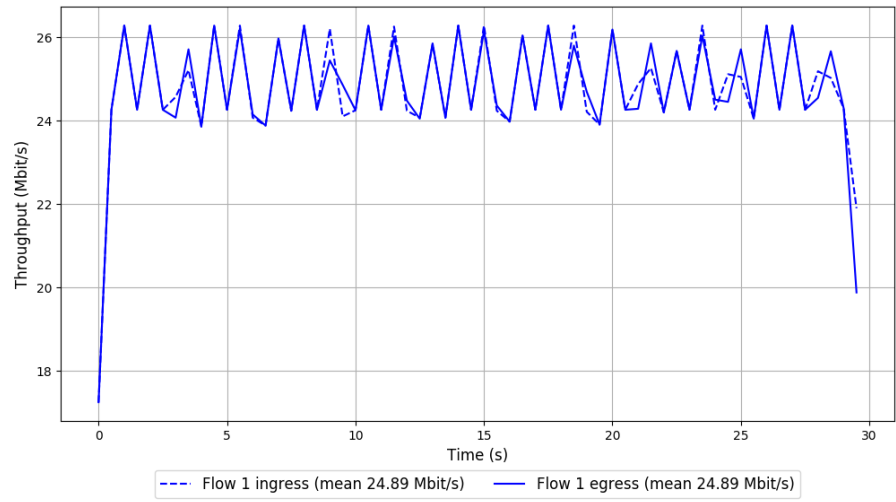
-- Flow 1:

Average throughput: 24.89 Mbit/s

95th percentile per-packet one-way delay: 1.132 ms

Loss rate: 0.14%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-03-13 00:52:37

End at: 2018-03-13 00:53:07

Local clock offset: 0.921 ms

Remote clock offset: -5.299 ms

Below is generated by plot.py at 2018-03-13 11:07:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.66 Mbit/s

95th percentile per-packet one-way delay: 1.203 ms

Loss rate: 0.07%

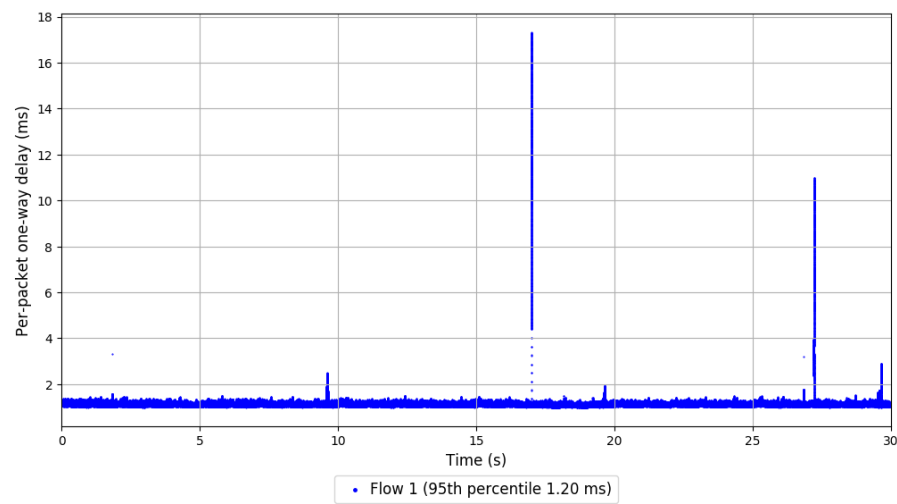
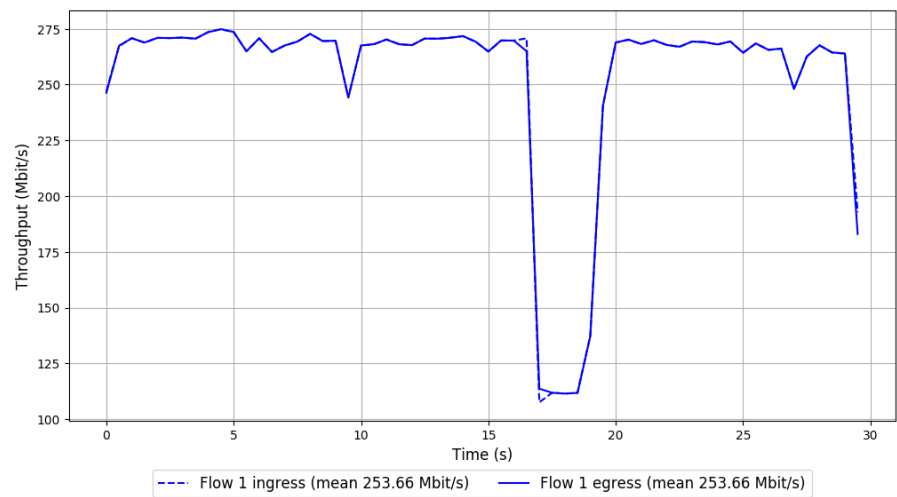
-- Flow 1:

Average throughput: 253.66 Mbit/s

95th percentile per-packet one-way delay: 1.203 ms

Loss rate: 0.07%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-03-13 01:20:47

End at: 2018-03-13 01:21:17

Local clock offset: 1.062 ms

Remote clock offset: -6.032 ms

Below is generated by plot.py at 2018-03-13 11:07:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.50 Mbit/s

95th percentile per-packet one-way delay: 2.130 ms

Loss rate: 0.09%

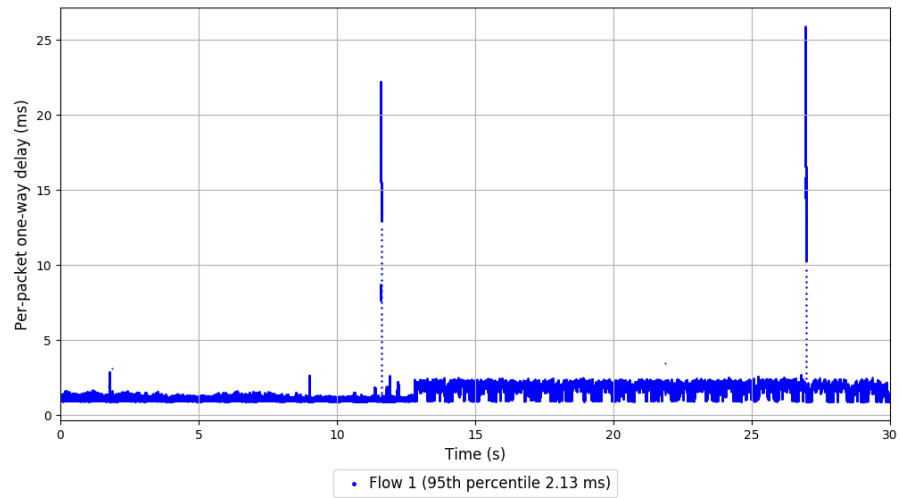
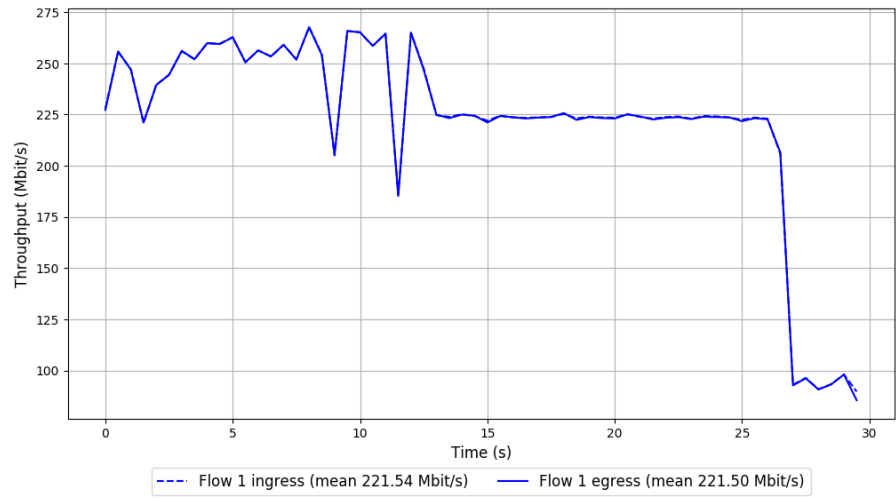
-- Flow 1:

Average throughput: 221.50 Mbit/s

95th percentile per-packet one-way delay: 2.130 ms

Loss rate: 0.09%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-03-13 01:48:24

End at: 2018-03-13 01:48:54

Local clock offset: 0.814 ms

Remote clock offset: -5.874 ms

Below is generated by plot.py at 2018-03-13 11:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 262.59 Mbit/s

95th percentile per-packet one-way delay: 1.051 ms

Loss rate: 0.07%

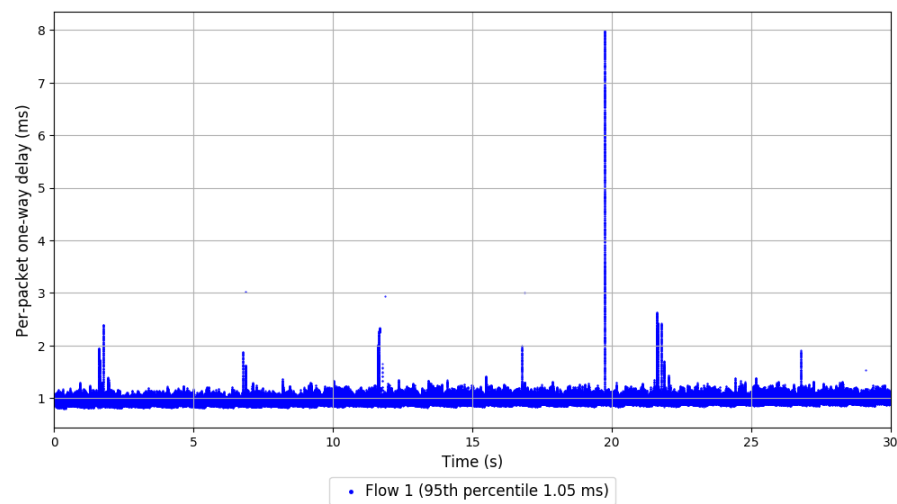
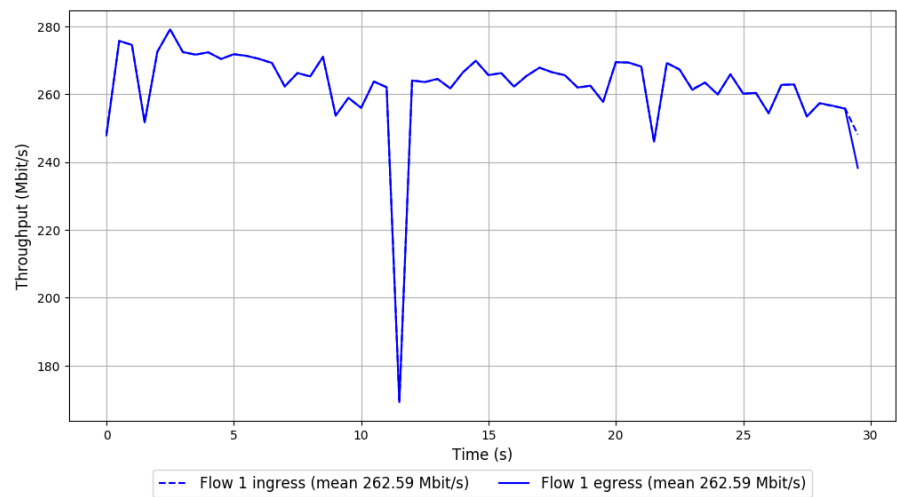
-- Flow 1:

Average throughput: 262.59 Mbit/s

95th percentile per-packet one-way delay: 1.051 ms

Loss rate: 0.07%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-03-13 02:16:32

End at: 2018-03-13 02:17:02

Local clock offset: 0.837 ms

Remote clock offset: -5.217 ms

Below is generated by plot.py at 2018-03-13 11:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 252.34 Mbit/s

95th percentile per-packet one-way delay: 1.227 ms

Loss rate: 0.07%

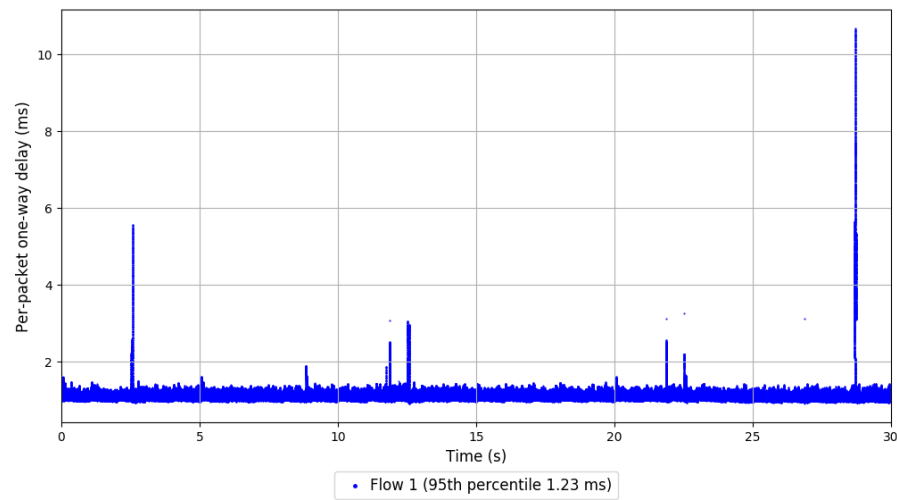
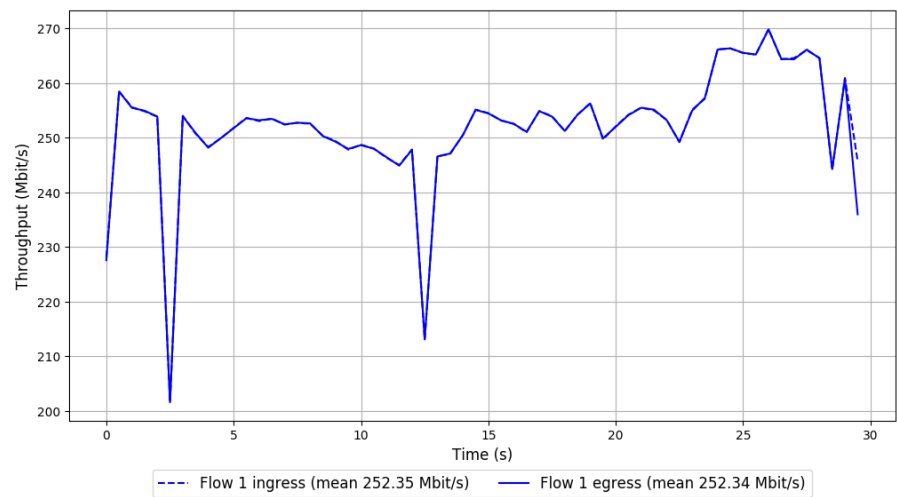
-- Flow 1:

Average throughput: 252.34 Mbit/s

95th percentile per-packet one-way delay: 1.227 ms

Loss rate: 0.07%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-03-13 02:44:27

End at: 2018-03-13 02:44:57

Local clock offset: 1.045 ms

Remote clock offset: -5.347 ms

Below is generated by plot.py at 2018-03-13 11:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 254.05 Mbit/s

95th percentile per-packet one-way delay: 1.247 ms

Loss rate: 0.07%

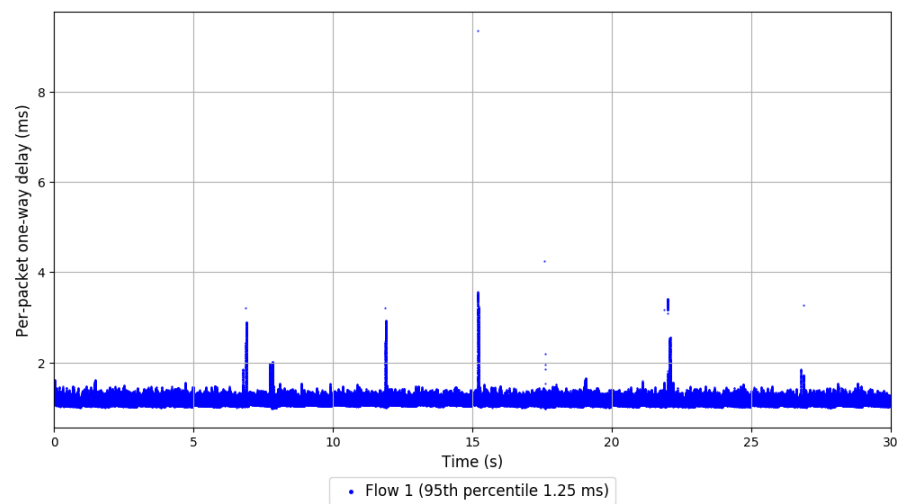
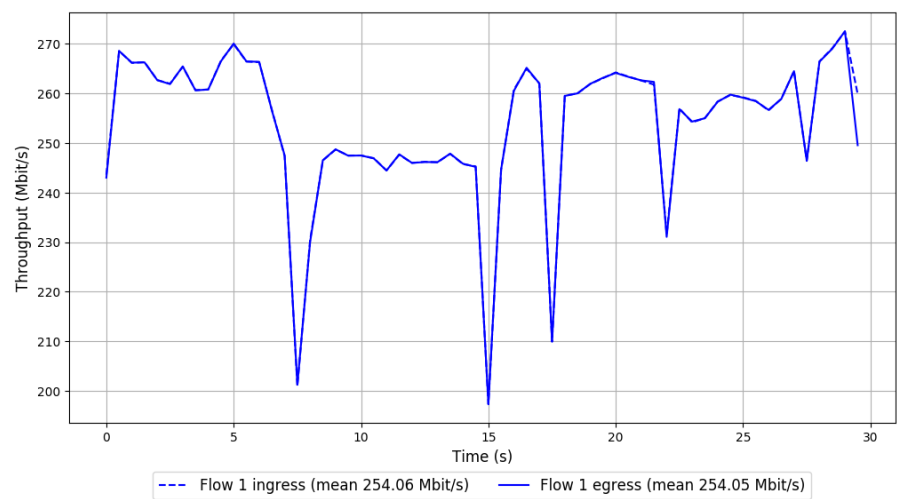
-- Flow 1:

Average throughput: 254.05 Mbit/s

95th percentile per-packet one-way delay: 1.247 ms

Loss rate: 0.07%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-03-13 03:12:13

End at: 2018-03-13 03:12:43

Local clock offset: 1.03 ms

Remote clock offset: -6.413 ms

Below is generated by plot.py at 2018-03-13 11:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 251.07 Mbit/s

95th percentile per-packet one-way delay: 1.146 ms

Loss rate: 0.03%

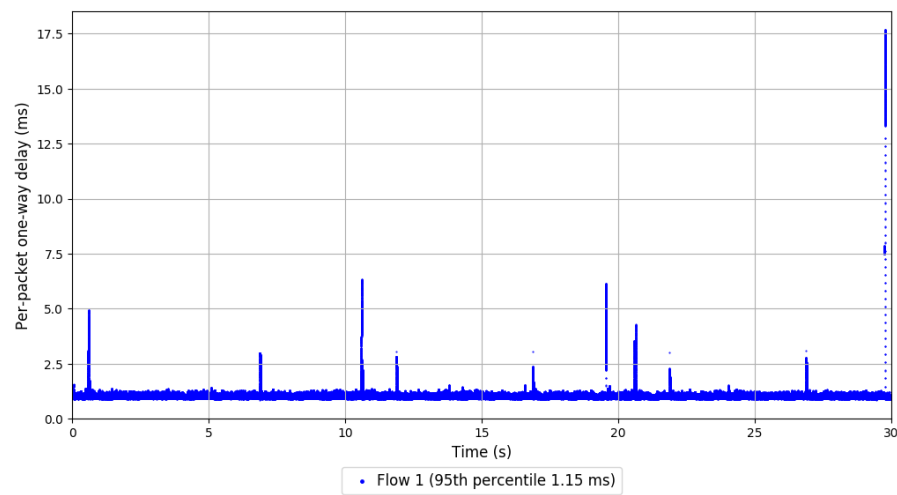
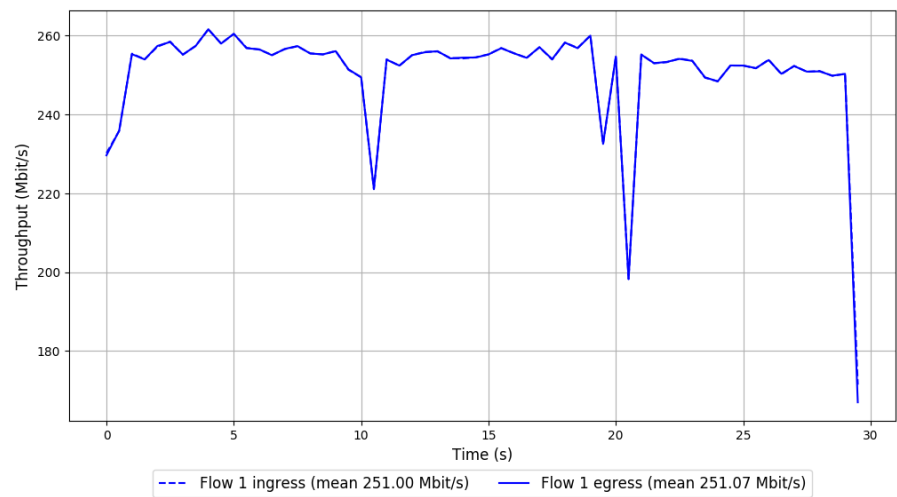
-- Flow 1:

Average throughput: 251.07 Mbit/s

95th percentile per-packet one-way delay: 1.146 ms

Loss rate: 0.03%

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

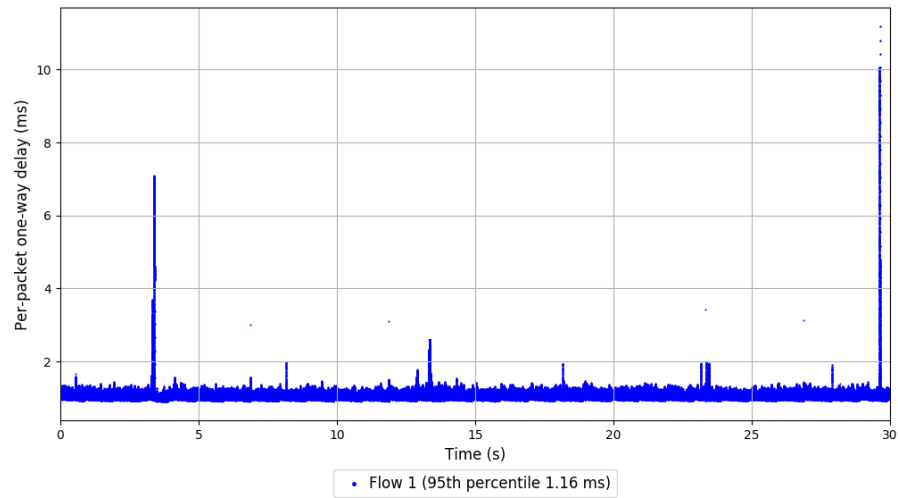
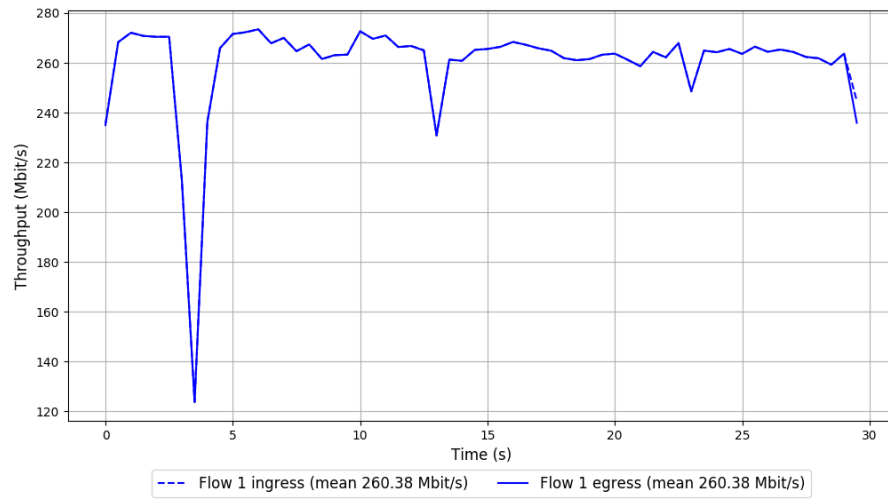


Run 7: Statistics of TaoVA-100x

Start at: 2018-03-13 03:39:50
End at: 2018-03-13 03:40:20
Local clock offset: 1.008 ms
Remote clock offset: -6.213 ms

Below is generated by plot.py at 2018-03-13 11:08:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 260.38 Mbit/s
95th percentile per-packet one-way delay: 1.155 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 260.38 Mbit/s
95th percentile per-packet one-way delay: 1.155 ms
Loss rate: 0.06%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-03-13 04:07:45

End at: 2018-03-13 04:08:15

Local clock offset: 1.267 ms

Remote clock offset: -5.918 ms

Below is generated by plot.py at 2018-03-13 11:13:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 239.57 Mbit/s

95th percentile per-packet one-way delay: 1.224 ms

Loss rate: 0.03%

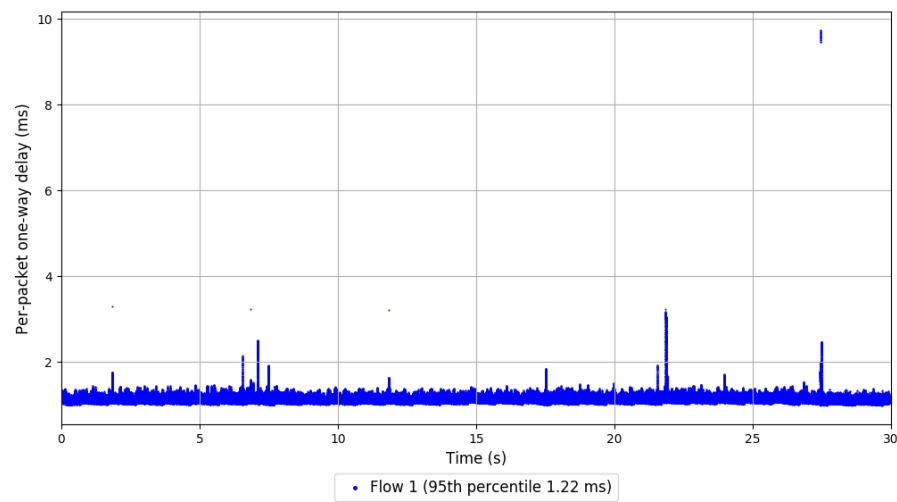
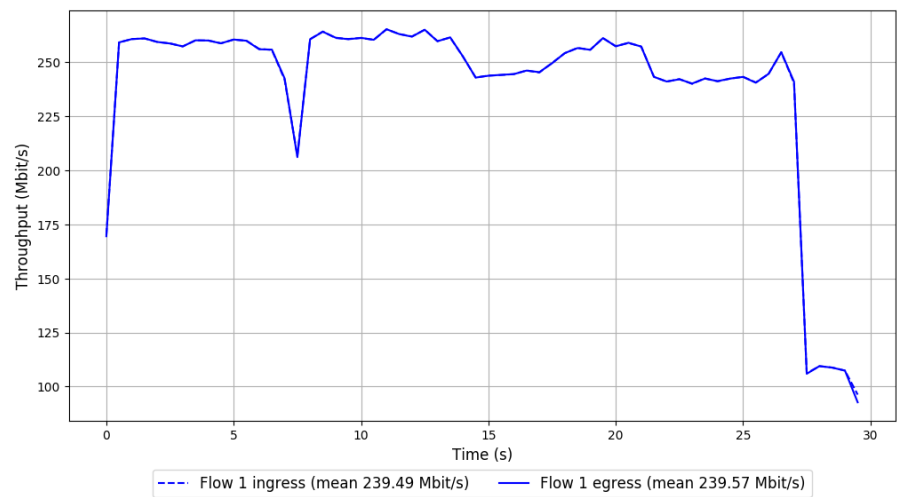
-- Flow 1:

Average throughput: 239.57 Mbit/s

95th percentile per-packet one-way delay: 1.224 ms

Loss rate: 0.03%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-03-13 04:35:41

End at: 2018-03-13 04:36:11

Local clock offset: 1.303 ms

Remote clock offset: -5.579 ms

Below is generated by plot.py at 2018-03-13 11:14:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 252.57 Mbit/s

95th percentile per-packet one-way delay: 1.132 ms

Loss rate: 0.06%

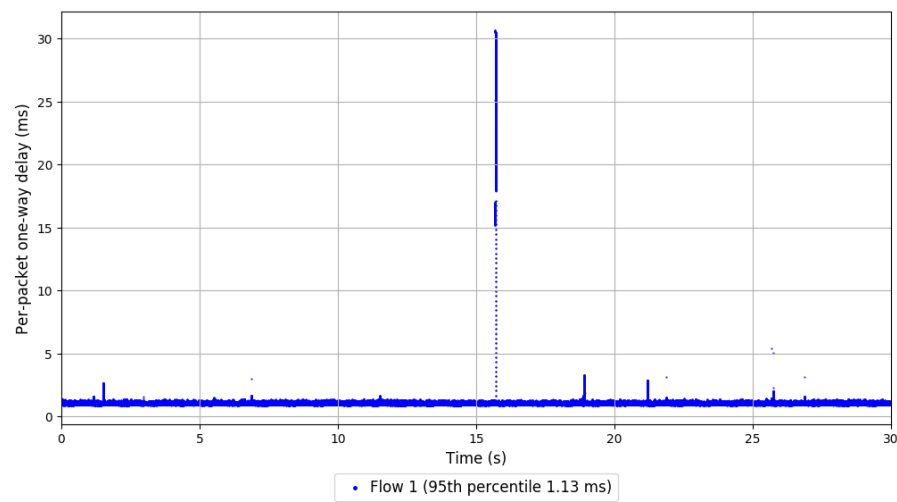
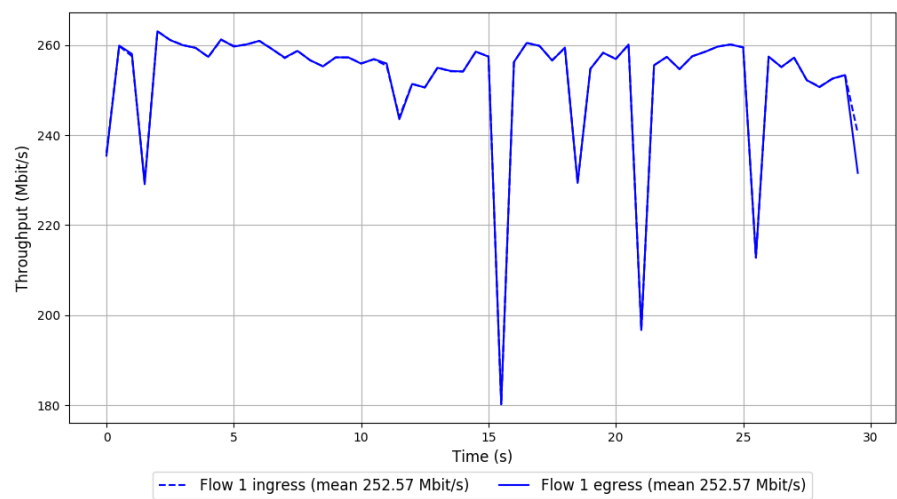
-- Flow 1:

Average throughput: 252.57 Mbit/s

95th percentile per-packet one-way delay: 1.132 ms

Loss rate: 0.06%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-03-13 05:03:37

End at: 2018-03-13 05:04:07

Local clock offset: 1.562 ms

Remote clock offset: -5.533 ms

Below is generated by plot.py at 2018-03-13 11:14:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.94 Mbit/s

95th percentile per-packet one-way delay: 1.982 ms

Loss rate: 0.10%

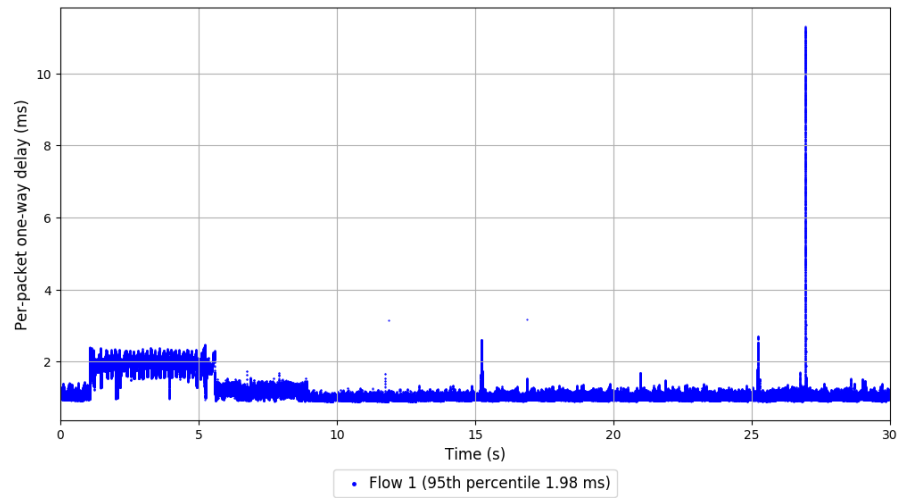
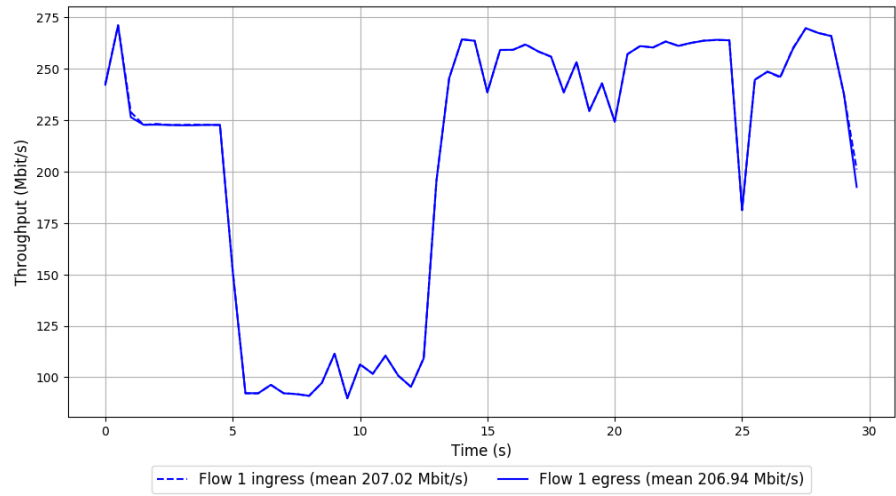
-- Flow 1:

Average throughput: 206.94 Mbit/s

95th percentile per-packet one-way delay: 1.982 ms

Loss rate: 0.10%

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

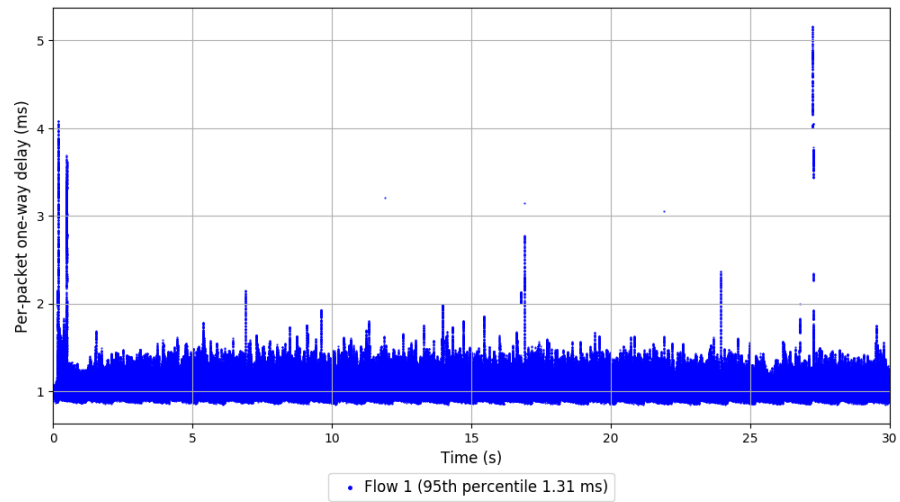
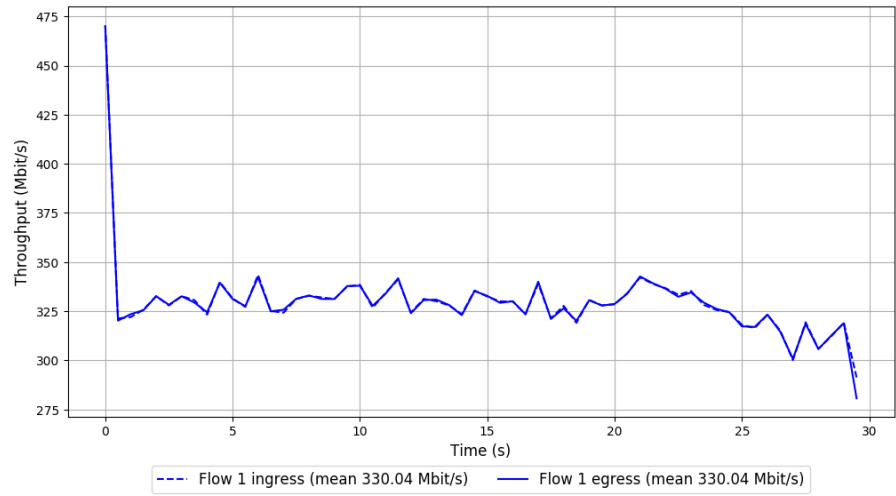


Run 1: Statistics of TCP Vegas

Start at: 2018-03-13 01:03:47
End at: 2018-03-13 01:04:17
Local clock offset: 0.833 ms
Remote clock offset: -5.234 ms

Below is generated by plot.py at 2018-03-13 11:14:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 330.04 Mbit/s
95th percentile per-packet one-way delay: 1.315 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 330.04 Mbit/s
95th percentile per-packet one-way delay: 1.315 ms
Loss rate: 0.06%

Run 1: Report of TCP Vegas — Data Link

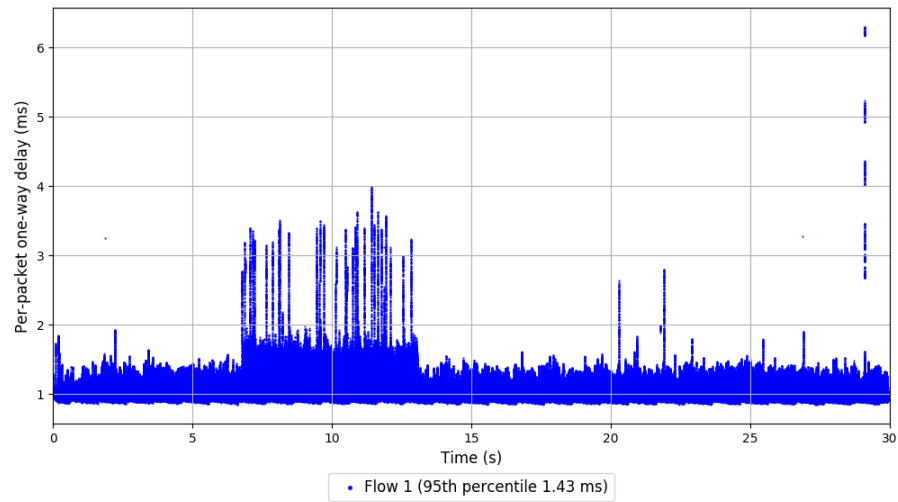
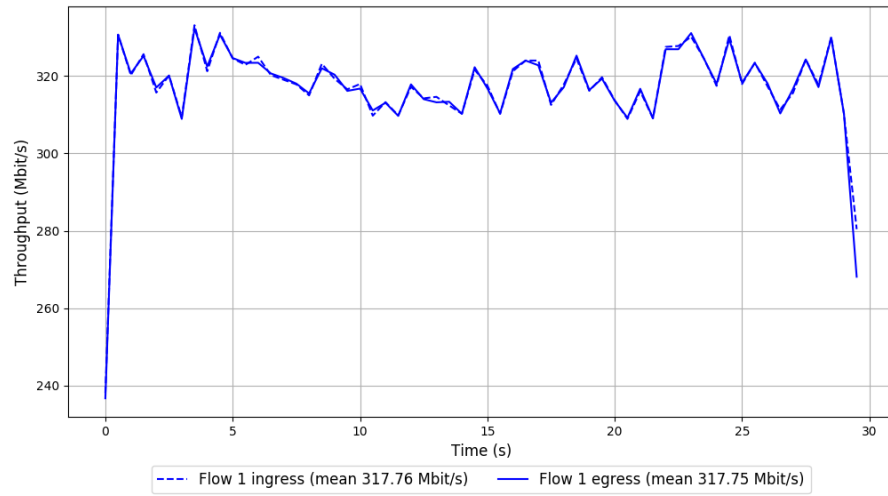


Run 2: Statistics of TCP Vegas

Start at: 2018-03-13 01:31:43
End at: 2018-03-13 01:32:13
Local clock offset: 1.098 ms
Remote clock offset: -6.254 ms

Below is generated by plot.py at 2018-03-13 11:14:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 317.75 Mbit/s
95th percentile per-packet one-way delay: 1.427 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 317.75 Mbit/s
95th percentile per-packet one-way delay: 1.427 ms
Loss rate: 0.07%

Run 2: Report of TCP Vegas — Data Link

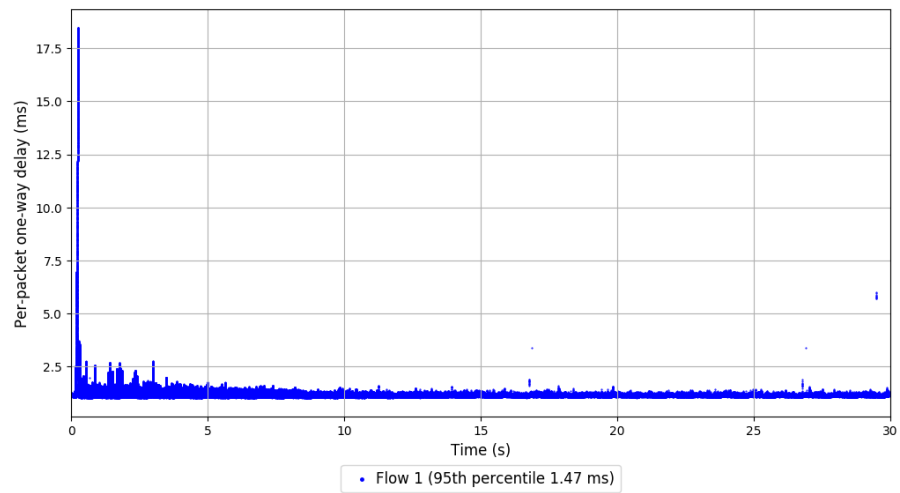
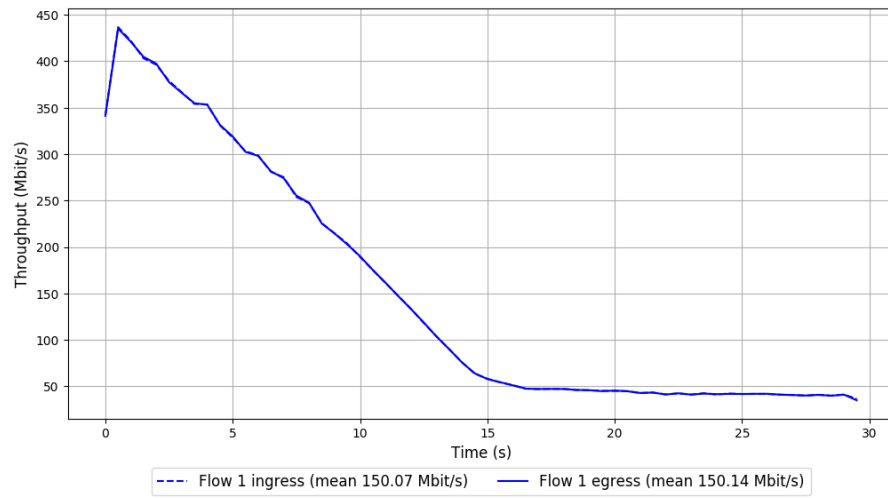


Run 3: Statistics of TCP Vegas

Start at: 2018-03-13 01:59:24
End at: 2018-03-13 01:59:54
Local clock offset: 0.825 ms
Remote clock offset: -5.462 ms

Below is generated by plot.py at 2018-03-13 11:14:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 150.14 Mbit/s
95th percentile per-packet one-way delay: 1.465 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 150.14 Mbit/s
95th percentile per-packet one-way delay: 1.465 ms
Loss rate: 0.02%

Run 3: Report of TCP Vegas — Data Link

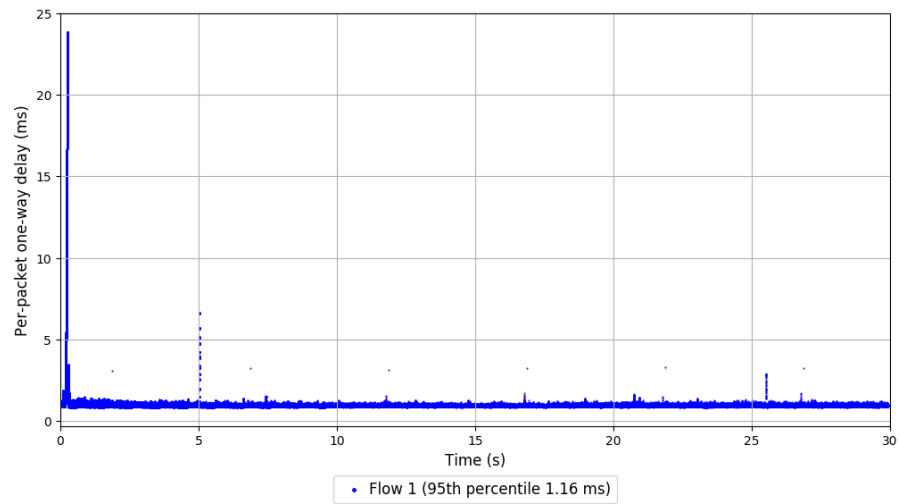
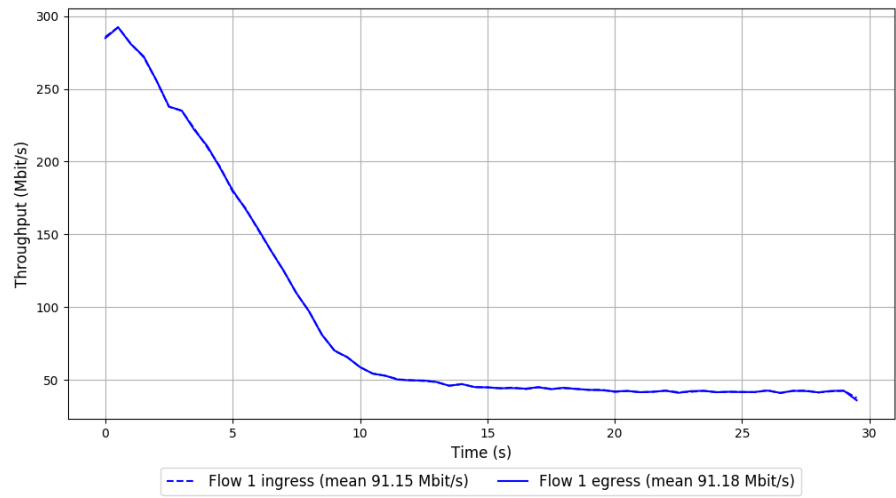


Run 4: Statistics of TCP Vegas

Start at: 2018-03-13 02:27:33
End at: 2018-03-13 02:28:03
Local clock offset: 0.88 ms
Remote clock offset: -5.254 ms

Below is generated by plot.py at 2018-03-13 11:14:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.18 Mbit/s
95th percentile per-packet one-way delay: 1.157 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 91.18 Mbit/s
95th percentile per-packet one-way delay: 1.157 ms
Loss rate: 0.03%

Run 4: Report of TCP Vegas — Data Link

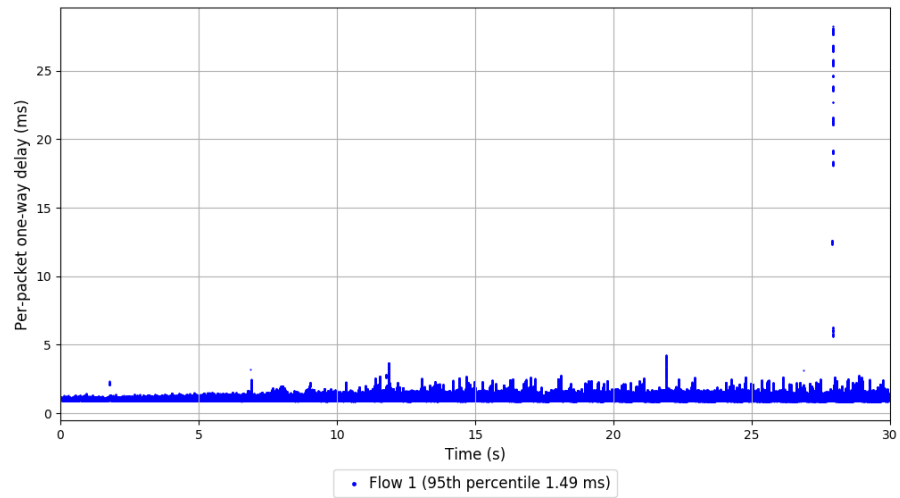
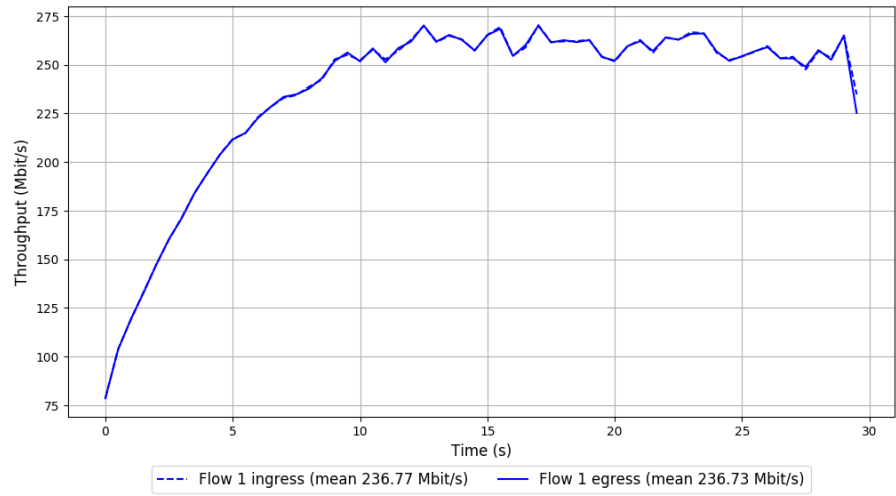


Run 5: Statistics of TCP Vegas

Start at: 2018-03-13 02:55:25
End at: 2018-03-13 02:55:55
Local clock offset: 0.956 ms
Remote clock offset: -5.731 ms

Below is generated by plot.py at 2018-03-13 11:14:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 236.73 Mbit/s
95th percentile per-packet one-way delay: 1.490 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 236.73 Mbit/s
95th percentile per-packet one-way delay: 1.490 ms
Loss rate: 0.07%

Run 5: Report of TCP Vegas — Data Link

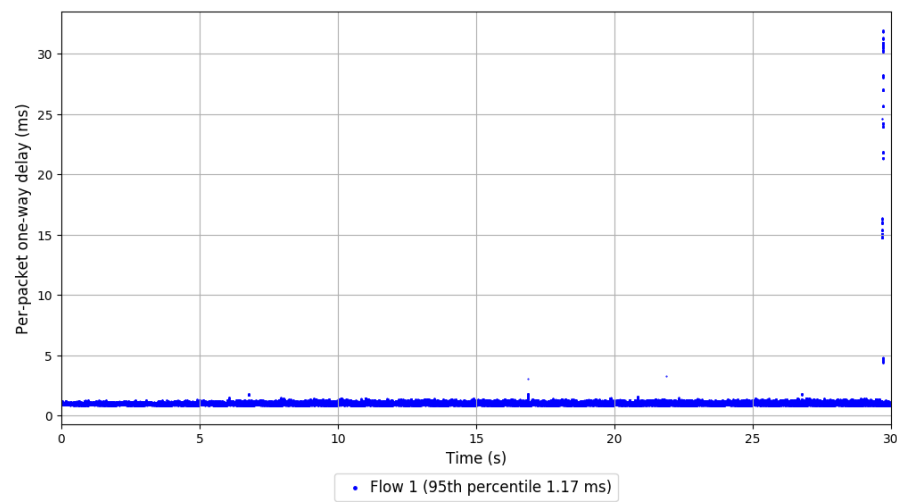
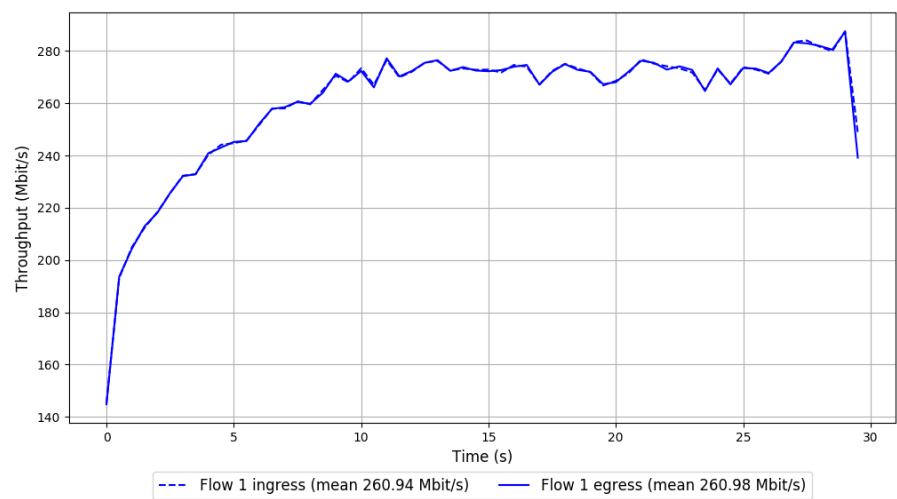


Run 6: Statistics of TCP Vegas

Start at: 2018-03-13 03:23:03
End at: 2018-03-13 03:23:33
Local clock offset: 1.015 ms
Remote clock offset: -6.521 ms

Below is generated by plot.py at 2018-03-13 11:14:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 260.98 Mbit/s
95th percentile per-packet one-way delay: 1.167 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 260.98 Mbit/s
95th percentile per-packet one-way delay: 1.167 ms
Loss rate: 0.07%

Run 6: Report of TCP Vegas — Data Link

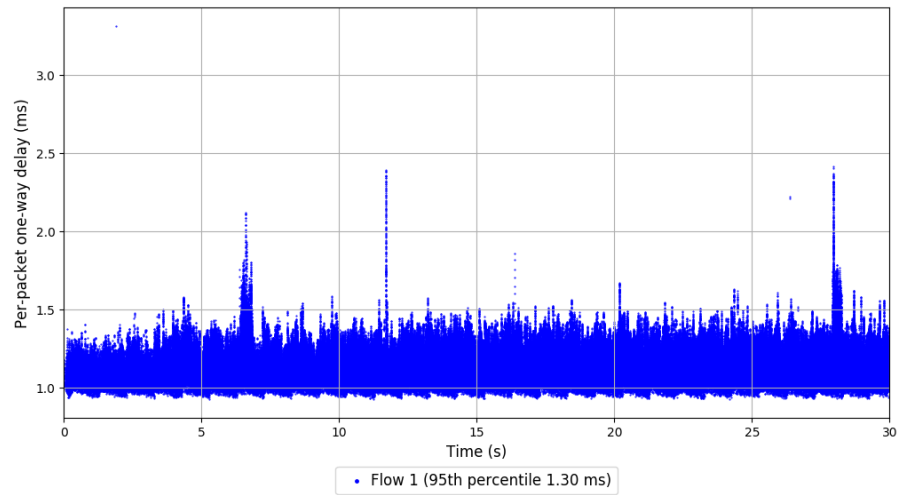
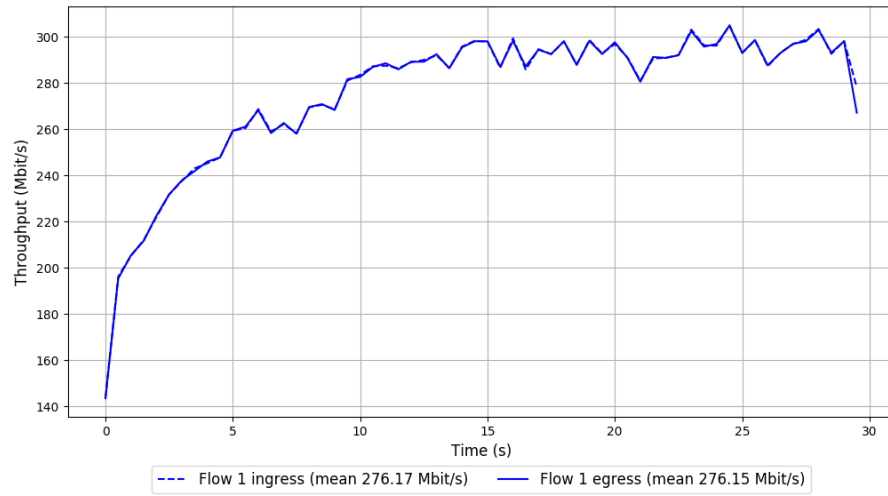


Run 7: Statistics of TCP Vegas

Start at: 2018-03-13 03:50:49
End at: 2018-03-13 03:51:19
Local clock offset: 1.109 ms
Remote clock offset: -6.021 ms

Below is generated by plot.py at 2018-03-13 11:14:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 276.15 Mbit/s
95th percentile per-packet one-way delay: 1.305 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 276.15 Mbit/s
95th percentile per-packet one-way delay: 1.305 ms
Loss rate: 0.07%

Run 7: Report of TCP Vegas — Data Link

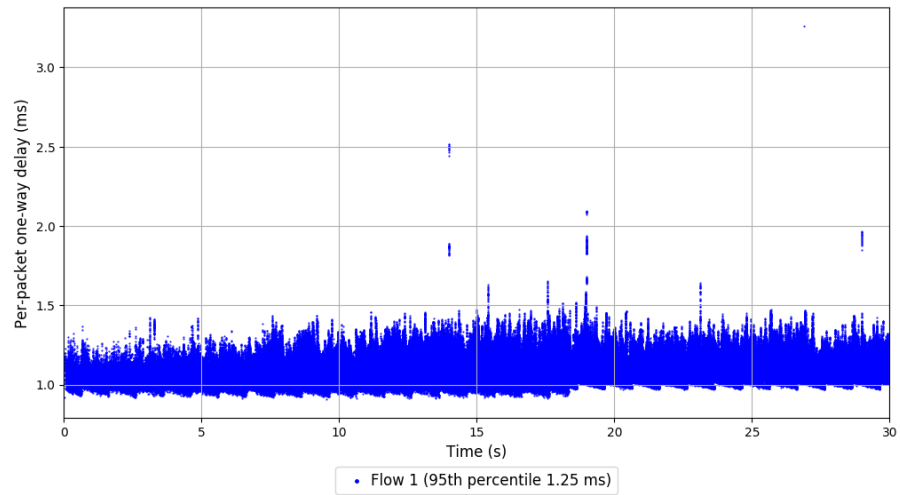
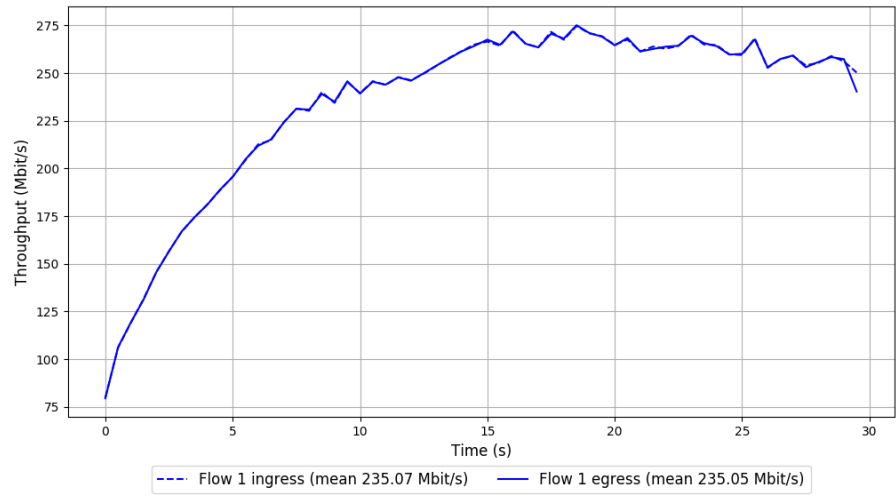


Run 8: Statistics of TCP Vegas

Start at: 2018-03-13 04:18:40
End at: 2018-03-13 04:19:10
Local clock offset: 1.237 ms
Remote clock offset: -5.797 ms

Below is generated by plot.py at 2018-03-13 11:14:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 235.05 Mbit/s
95th percentile per-packet one-way delay: 1.250 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 235.05 Mbit/s
95th percentile per-packet one-way delay: 1.250 ms
Loss rate: 0.07%

Run 8: Report of TCP Vegas — Data Link

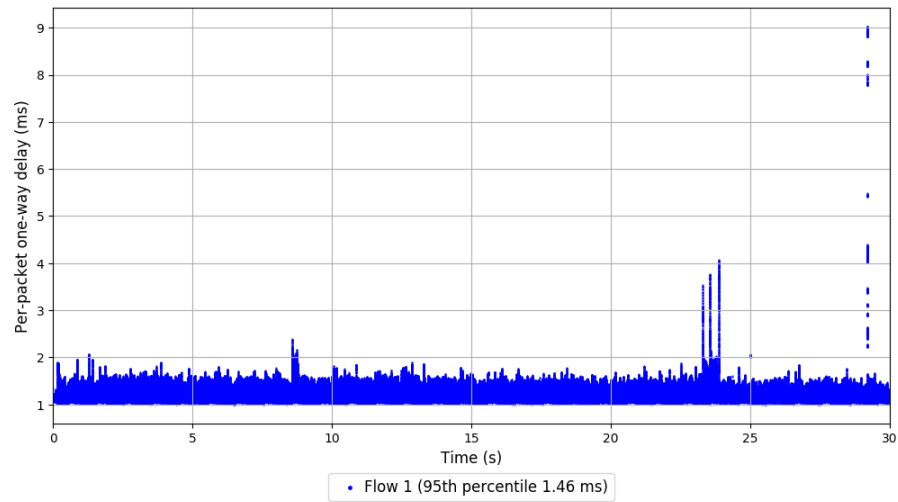
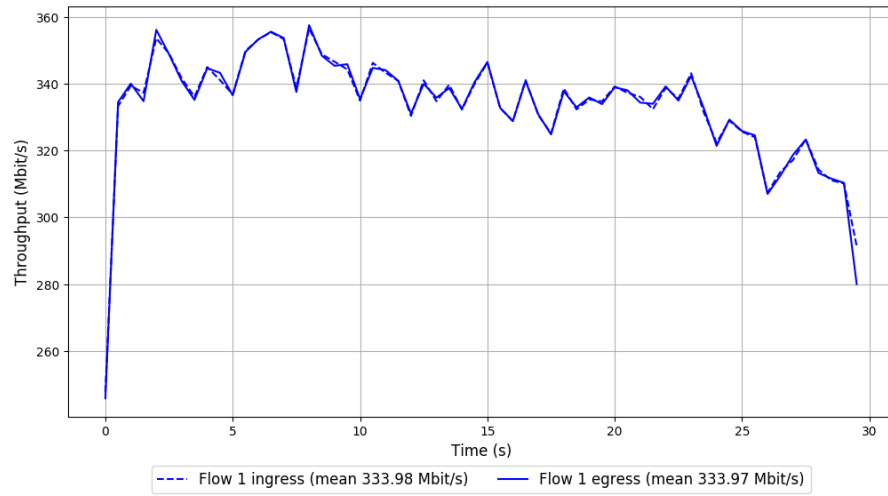


Run 9: Statistics of TCP Vegas

Start at: 2018-03-13 04:46:48
End at: 2018-03-13 04:47:18
Local clock offset: 1.328 ms
Remote clock offset: -5.681 ms

Below is generated by plot.py at 2018-03-13 11:16:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 333.97 Mbit/s
95th percentile per-packet one-way delay: 1.461 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 333.97 Mbit/s
95th percentile per-packet one-way delay: 1.461 ms
Loss rate: 0.06%

Run 9: Report of TCP Vegas — Data Link

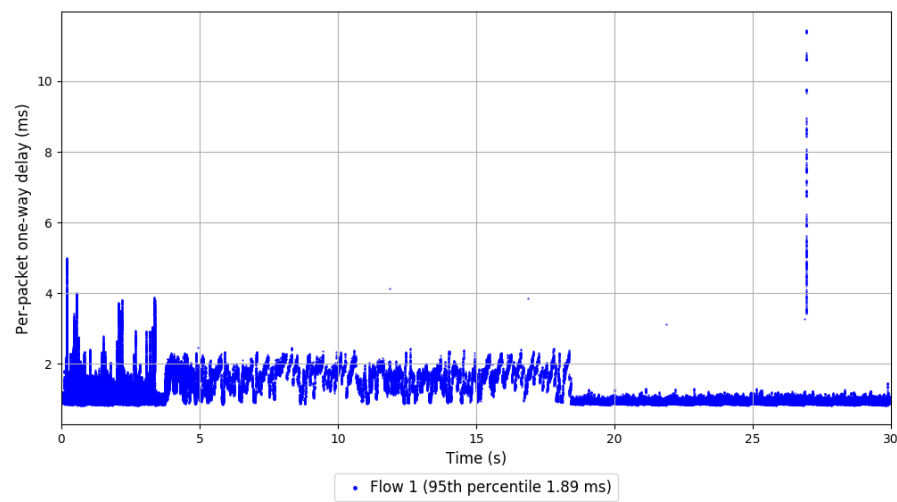
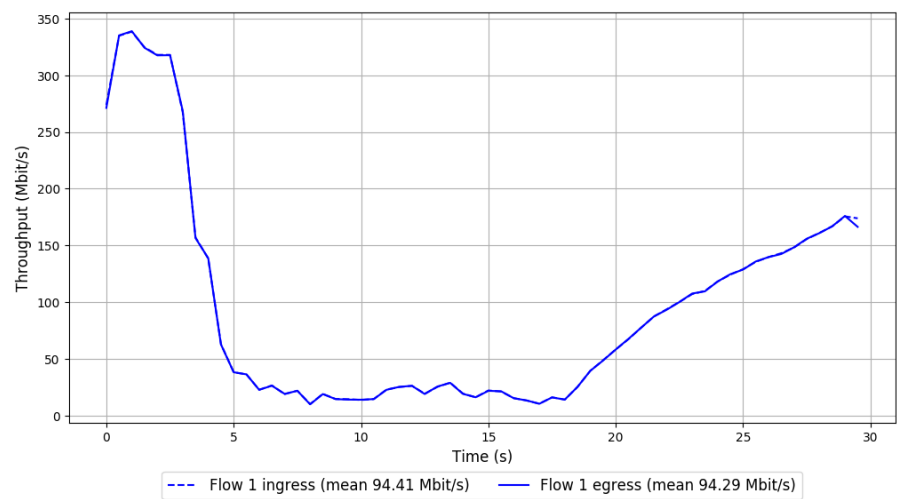


Run 10: Statistics of TCP Vegas

Start at: 2018-03-13 05:14:21
End at: 2018-03-13 05:14:51
Local clock offset: 1.765 ms
Remote clock offset: -5.328 ms

Below is generated by plot.py at 2018-03-13 11:16:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.29 Mbit/s
95th percentile per-packet one-way delay: 1.890 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 94.29 Mbit/s
95th percentile per-packet one-way delay: 1.890 ms
Loss rate: 0.20%

Run 10: Report of TCP Vegas — Data Link

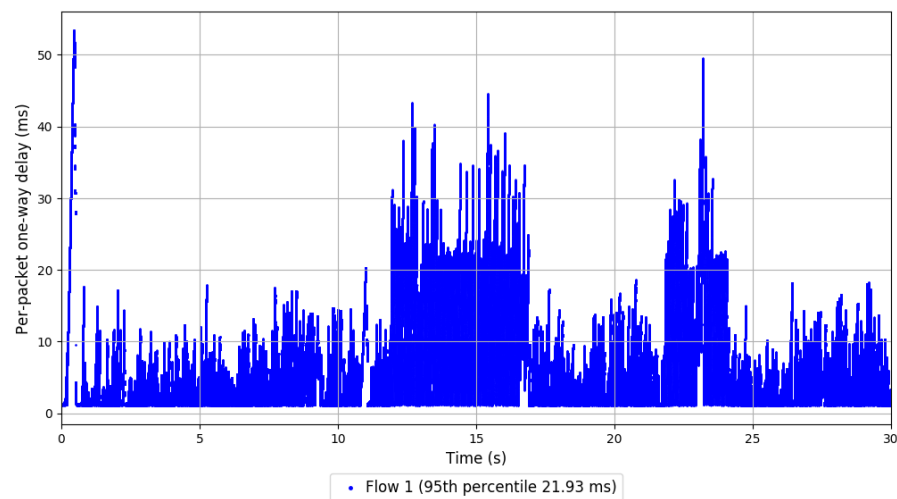
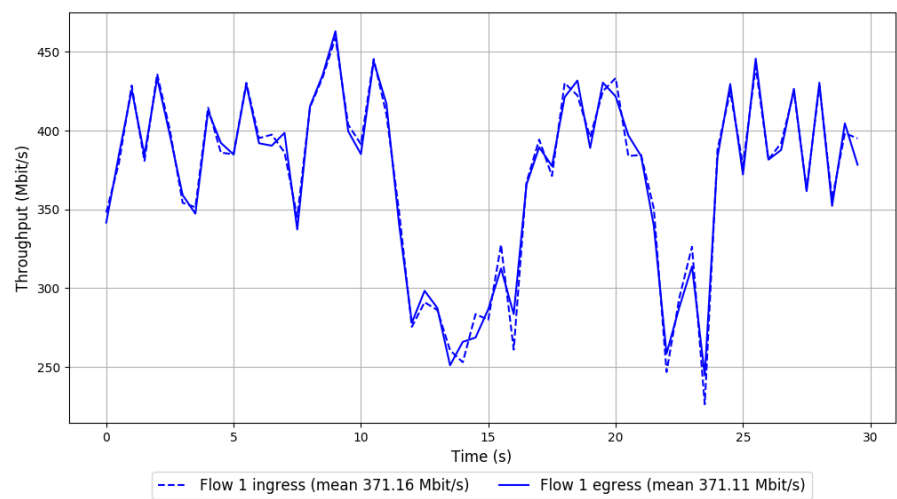


Run 1: Statistics of Verus

Start at: 2018-03-13 00:50:59
End at: 2018-03-13 00:51:29
Local clock offset: 0.956 ms
Remote clock offset: -5.335 ms

Below is generated by plot.py at 2018-03-13 11:18:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 371.11 Mbit/s
95th percentile per-packet one-way delay: 21.925 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 371.11 Mbit/s
95th percentile per-packet one-way delay: 21.925 ms
Loss rate: 0.08%

Run 1: Report of Verus — Data Link

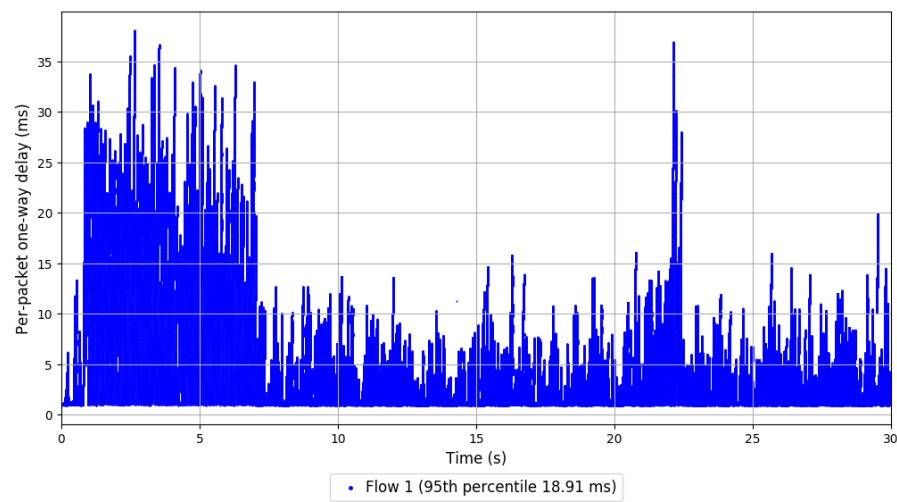
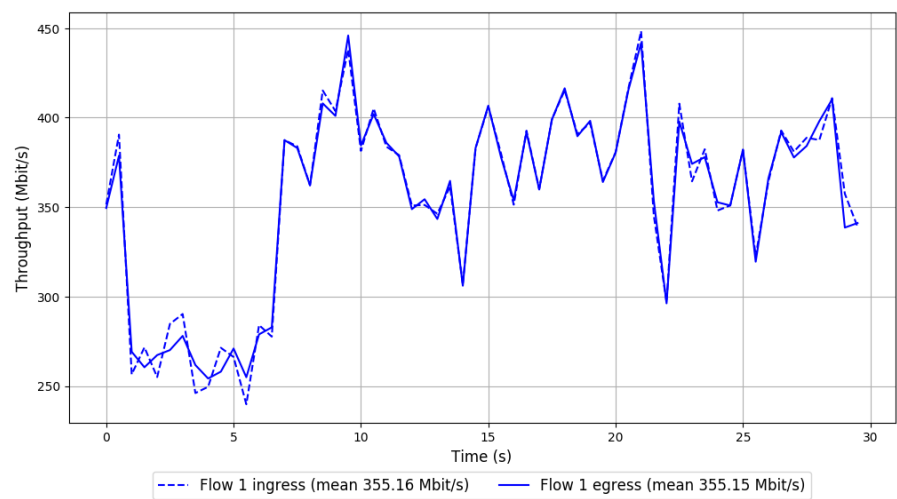


Run 2: Statistics of Verus

Start at: 2018-03-13 01:19:12
End at: 2018-03-13 01:19:42
Local clock offset: 1.128 ms
Remote clock offset: -5.902 ms

Below is generated by plot.py at 2018-03-13 11:18:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 355.15 Mbit/s
95th percentile per-packet one-way delay: 18.913 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 355.15 Mbit/s
95th percentile per-packet one-way delay: 18.913 ms
Loss rate: 0.08%

Run 2: Report of Verus — Data Link

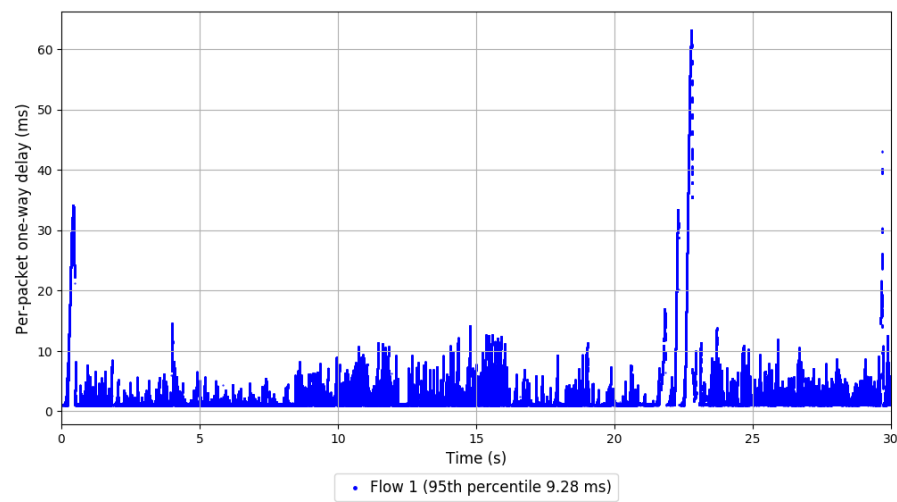
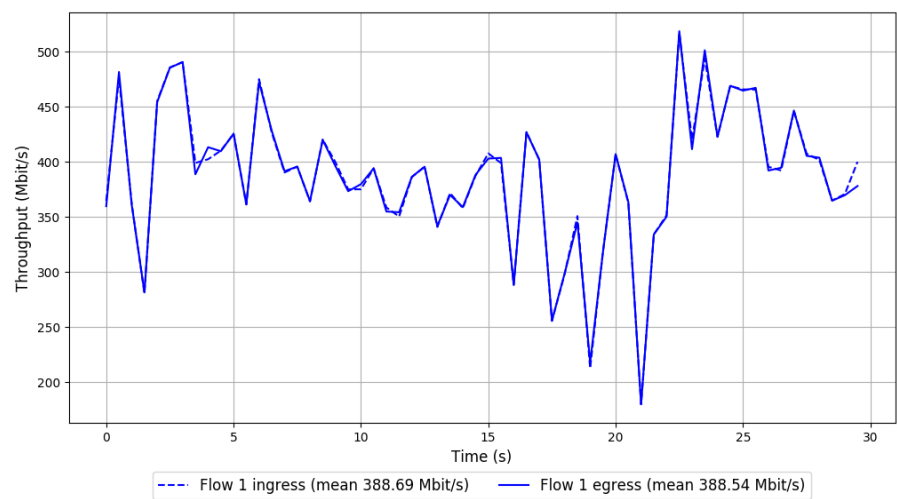


Run 3: Statistics of Verus

Start at: 2018-03-13 01:46:46
End at: 2018-03-13 01:47:16
Local clock offset: 0.862 ms
Remote clock offset: -6.088 ms

Below is generated by plot.py at 2018-03-13 11:18:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 388.54 Mbit/s
95th percentile per-packet one-way delay: 9.277 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 388.54 Mbit/s
95th percentile per-packet one-way delay: 9.277 ms
Loss rate: 0.10%

Run 3: Report of Verus — Data Link

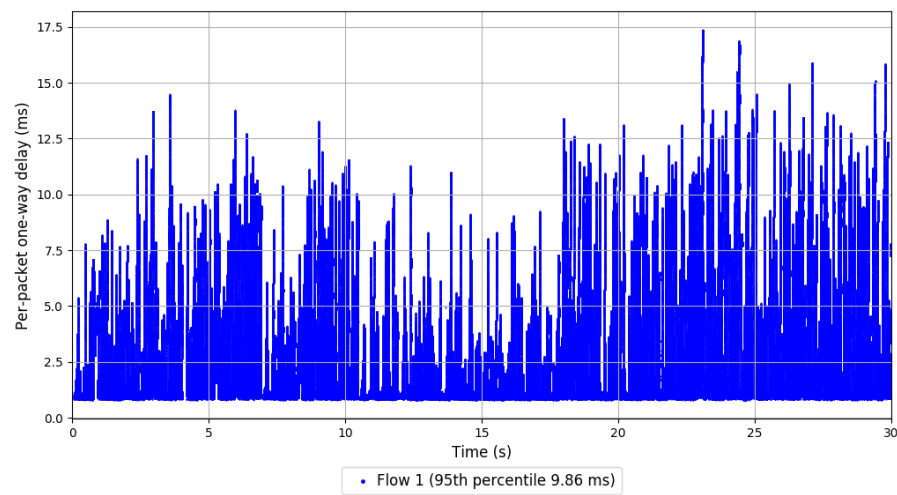
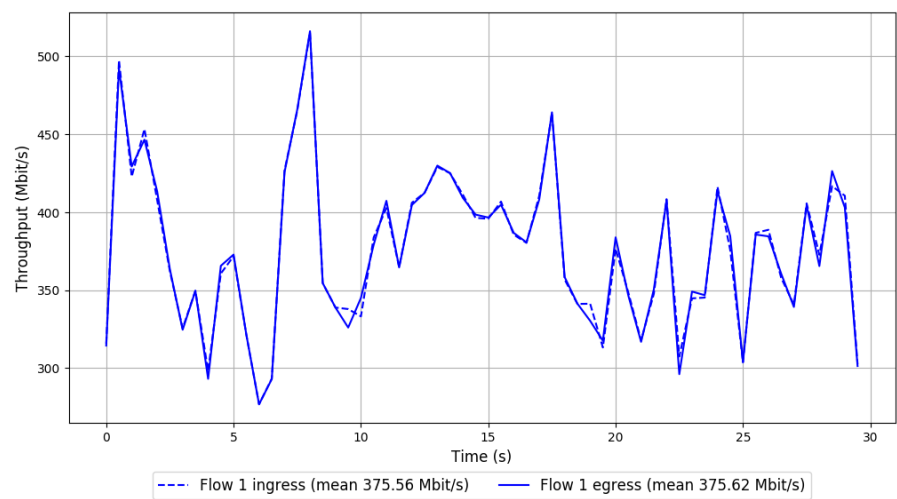


Run 4: Statistics of Verus

Start at: 2018-03-13 02:14:53
End at: 2018-03-13 02:15:23
Local clock offset: 0.779 ms
Remote clock offset: -5.139 ms

Below is generated by plot.py at 2018-03-13 11:19:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 375.62 Mbit/s
95th percentile per-packet one-way delay: 9.862 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 375.62 Mbit/s
95th percentile per-packet one-way delay: 9.862 ms
Loss rate: 0.05%

Run 4: Report of Verus — Data Link

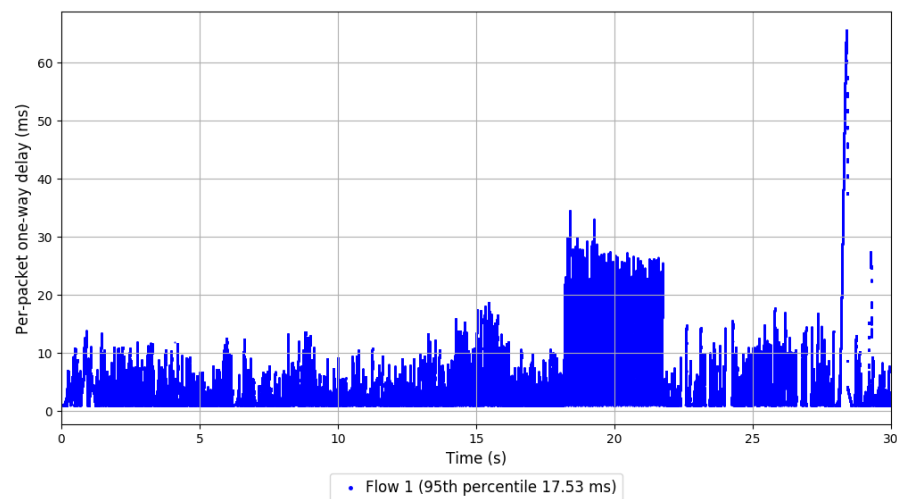
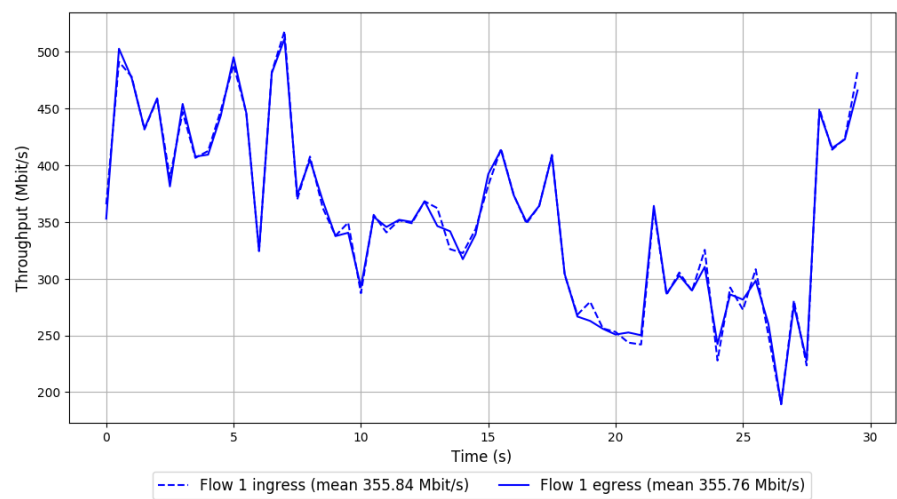


Run 5: Statistics of Verus

Start at: 2018-03-13 02:42:50
End at: 2018-03-13 02:43:20
Local clock offset: 0.965 ms
Remote clock offset: -5.303 ms

Below is generated by plot.py at 2018-03-13 11:19:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 355.76 Mbit/s
95th percentile per-packet one-way delay: 17.528 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 355.76 Mbit/s
95th percentile per-packet one-way delay: 17.528 ms
Loss rate: 0.09%

Run 5: Report of Verus — Data Link

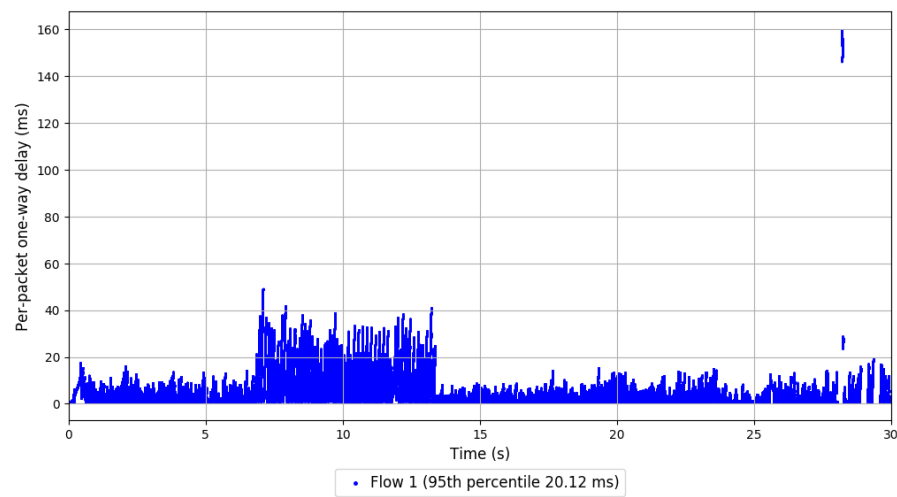
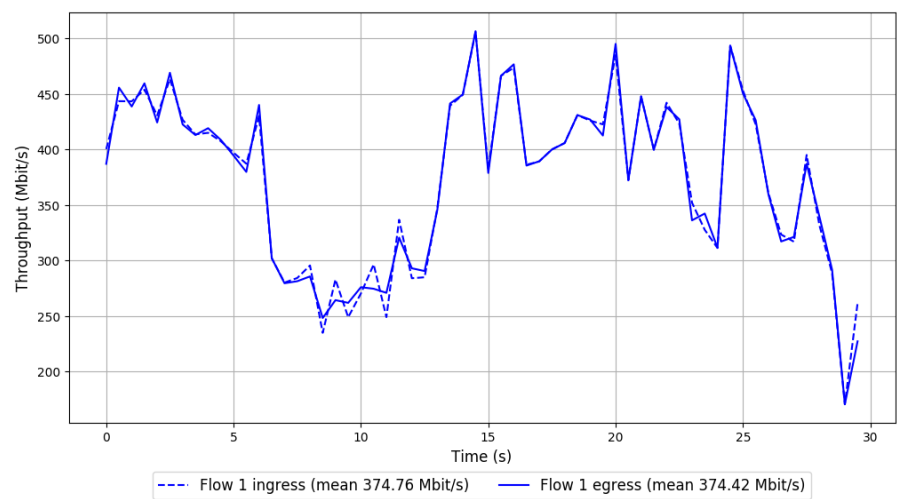


Run 6: Statistics of Verus

Start at: 2018-03-13 03:10:37
End at: 2018-03-13 03:11:07
Local clock offset: 1.106 ms
Remote clock offset: -6.319 ms

Below is generated by plot.py at 2018-03-13 11:19:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 374.42 Mbit/s
95th percentile per-packet one-way delay: 20.121 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 374.42 Mbit/s
95th percentile per-packet one-way delay: 20.121 ms
Loss rate: 0.15%

Run 6: Report of Verus — Data Link

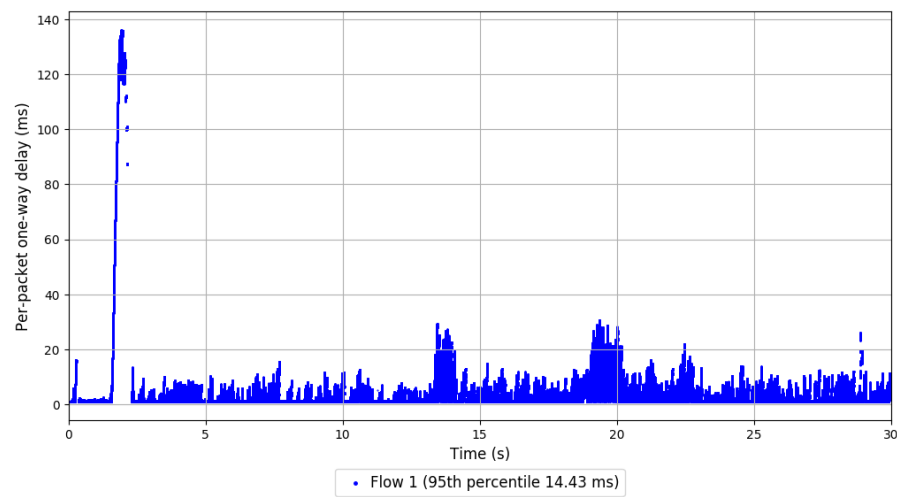
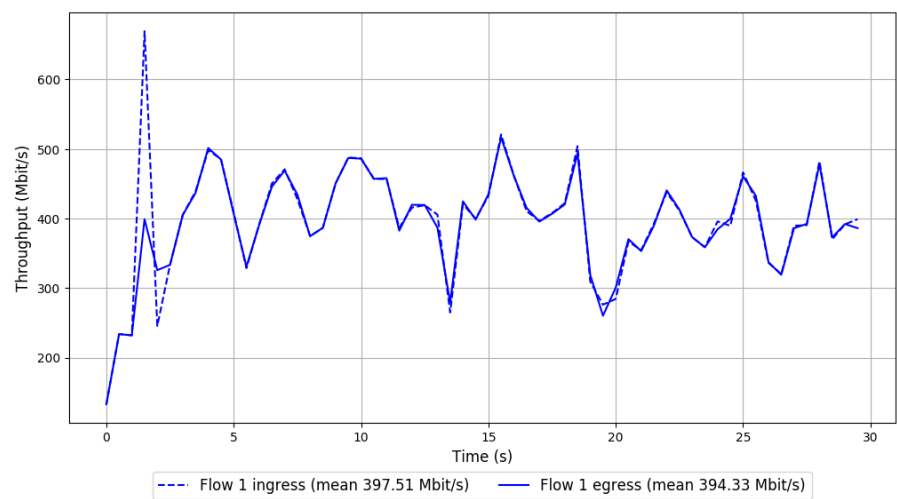


Run 7: Statistics of Verus

Start at: 2018-03-13 03:38:13
End at: 2018-03-13 03:38:43
Local clock offset: 1.113 ms
Remote clock offset: -6.174 ms

Below is generated by plot.py at 2018-03-13 11:20:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 394.33 Mbit/s
95th percentile per-packet one-way delay: 14.425 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 394.33 Mbit/s
95th percentile per-packet one-way delay: 14.425 ms
Loss rate: 0.87%

Run 7: Report of Verus — Data Link

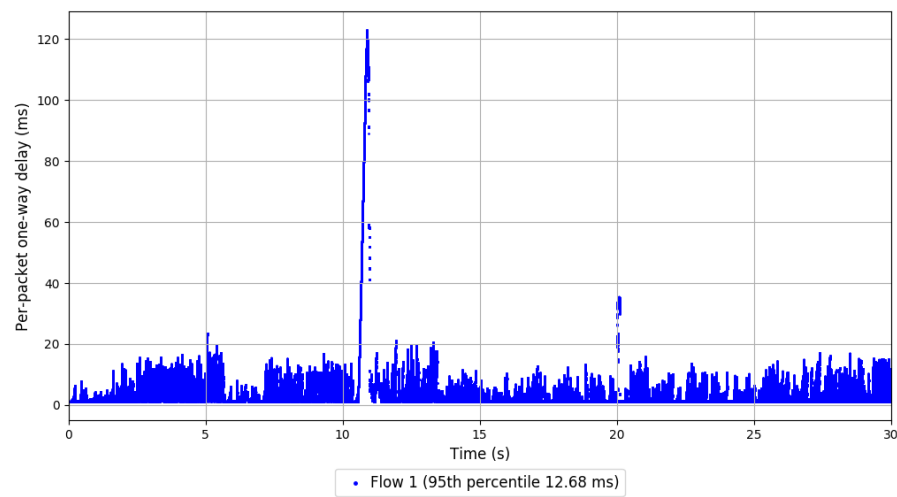
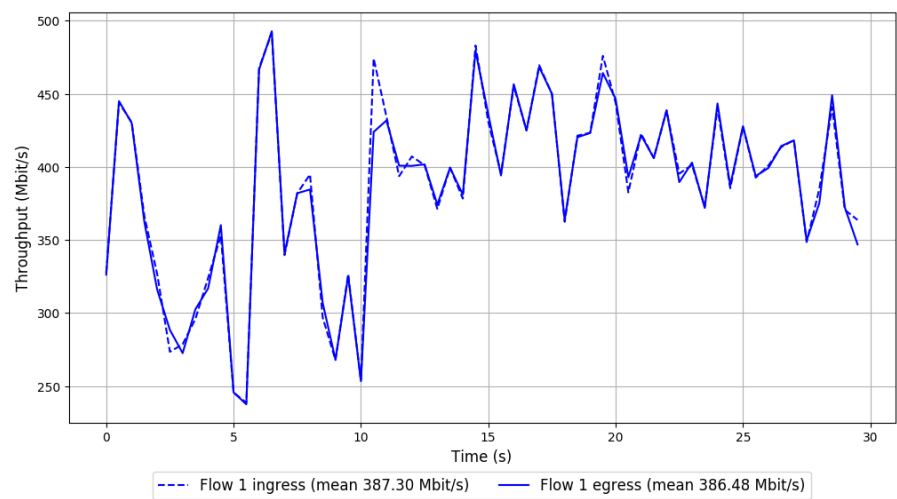


Run 8: Statistics of Verus

Start at: 2018-03-13 04:06:09
End at: 2018-03-13 04:06:39
Local clock offset: 1.24 ms
Remote clock offset: -5.938 ms

Below is generated by plot.py at 2018-03-13 11:22:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 386.48 Mbit/s
95th percentile per-packet one-way delay: 12.676 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 386.48 Mbit/s
95th percentile per-packet one-way delay: 12.676 ms
Loss rate: 0.27%

Run 8: Report of Verus — Data Link

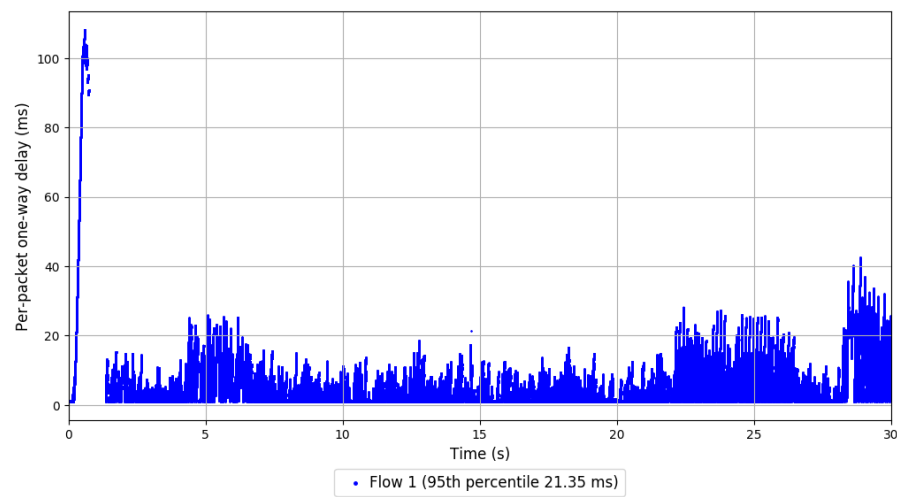
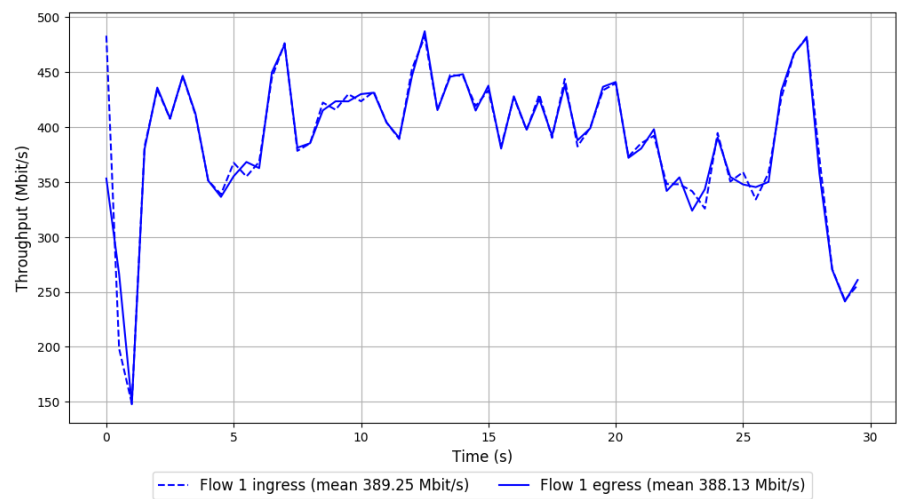


Run 9: Statistics of Verus

Start at: 2018-03-13 04:34:04
End at: 2018-03-13 04:34:34
Local clock offset: 1.308 ms
Remote clock offset: -5.692 ms

Below is generated by plot.py at 2018-03-13 11:23:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 388.13 Mbit/s
95th percentile per-packet one-way delay: 21.350 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 388.13 Mbit/s
95th percentile per-packet one-way delay: 21.350 ms
Loss rate: 0.32%

Run 9: Report of Verus — Data Link

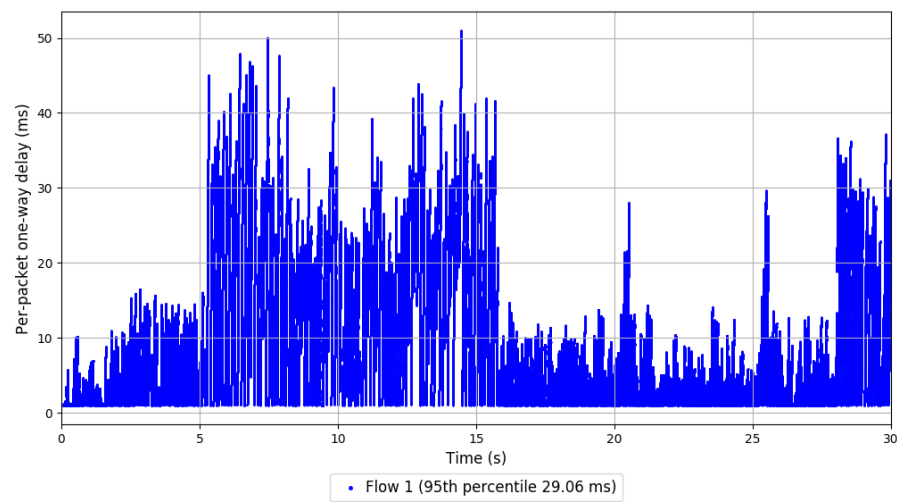
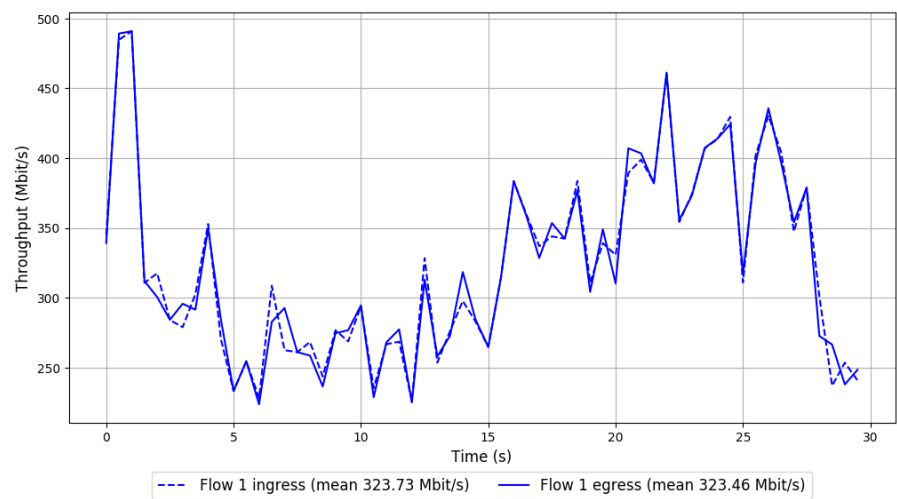


Run 10: Statistics of Verus

Start at: 2018-03-13 05:02:03
End at: 2018-03-13 05:02:33
Local clock offset: 1.473 ms
Remote clock offset: -5.614 ms

Below is generated by plot.py at 2018-03-13 11:23:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 323.46 Mbit/s
95th percentile per-packet one-way delay: 29.059 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 323.46 Mbit/s
95th percentile per-packet one-way delay: 29.059 ms
Loss rate: 0.04%

Run 10: Report of Verus — Data Link

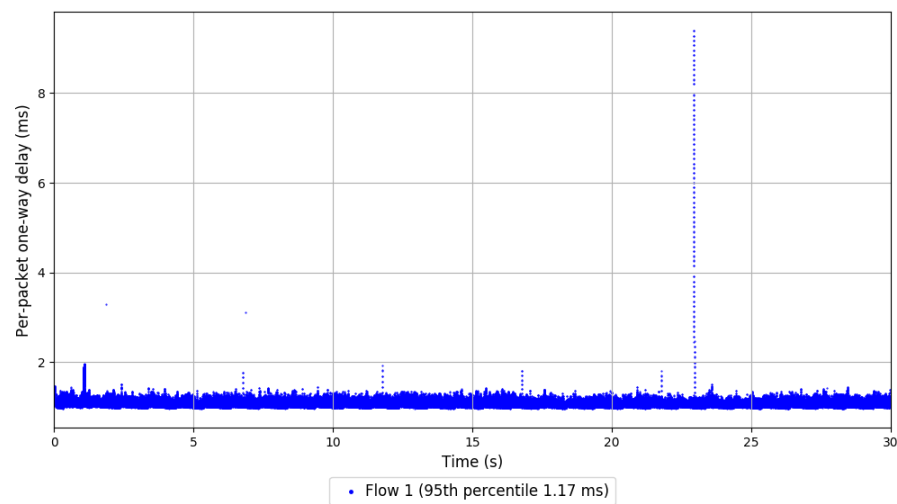
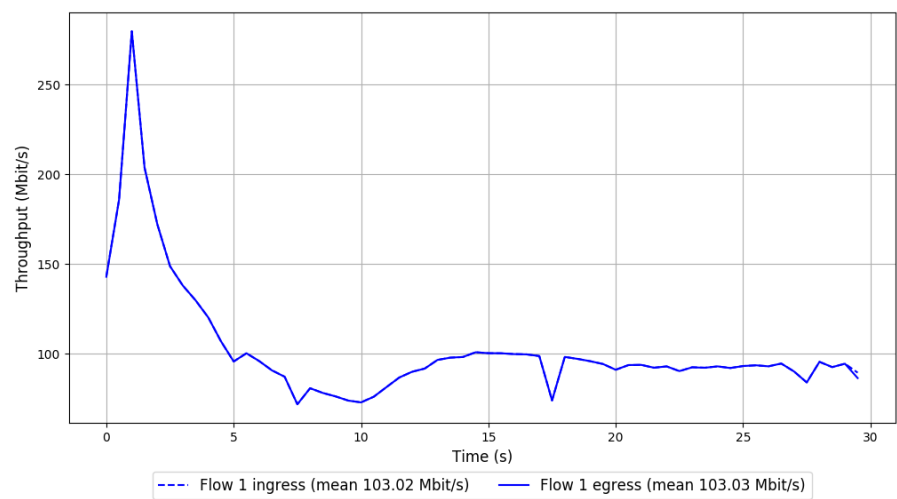


Run 1: Statistics of Copa

Start at: 2018-03-13 01:05:18
End at: 2018-03-13 01:05:48
Local clock offset: 0.965 ms
Remote clock offset: -5.254 ms

Below is generated by plot.py at 2018-03-13 11:23:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 103.03 Mbit/s
95th percentile per-packet one-way delay: 1.168 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 103.03 Mbit/s
95th percentile per-packet one-way delay: 1.168 ms
Loss rate: 0.05%

Run 1: Report of Copa — Data Link

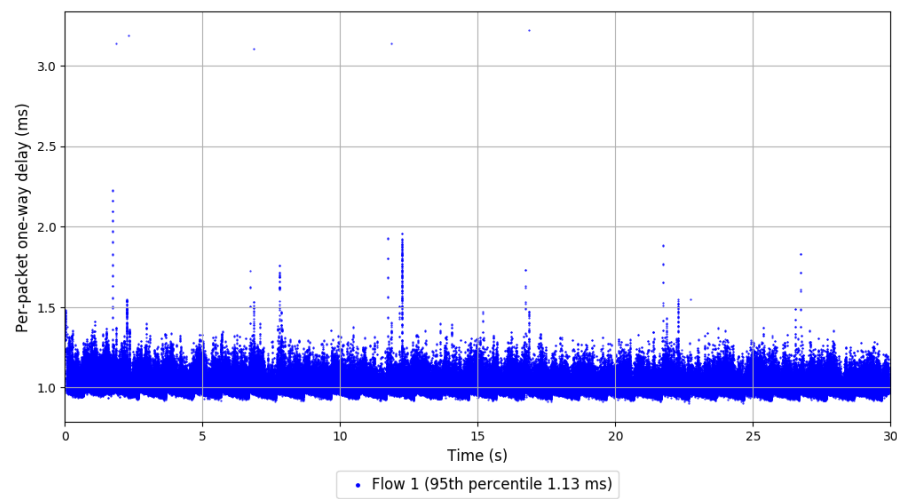
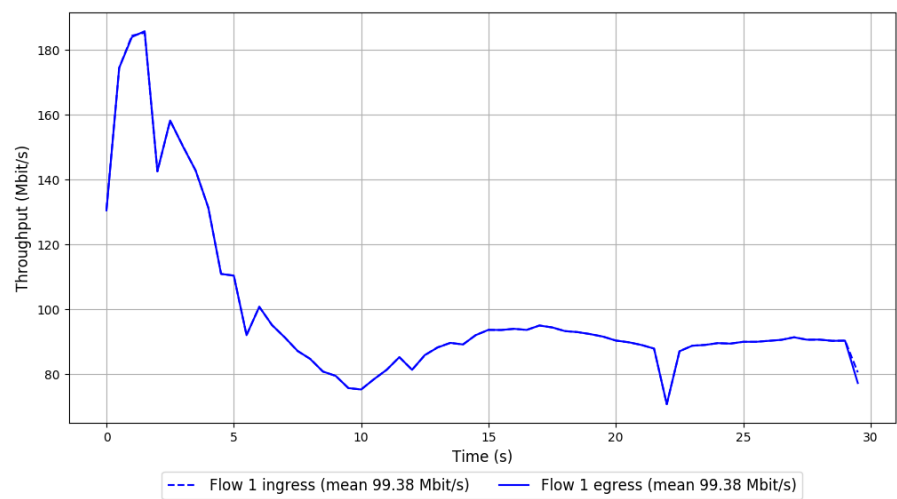


Run 2: Statistics of Copa

Start at: 2018-03-13 01:33:13
End at: 2018-03-13 01:33:43
Local clock offset: 1.19 ms
Remote clock offset: -6.255 ms

Below is generated by plot.py at 2018-03-13 11:23:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 99.38 Mbit/s
95th percentile per-packet one-way delay: 1.132 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 99.38 Mbit/s
95th percentile per-packet one-way delay: 1.132 ms
Loss rate: 0.06%

Run 2: Report of Copa — Data Link

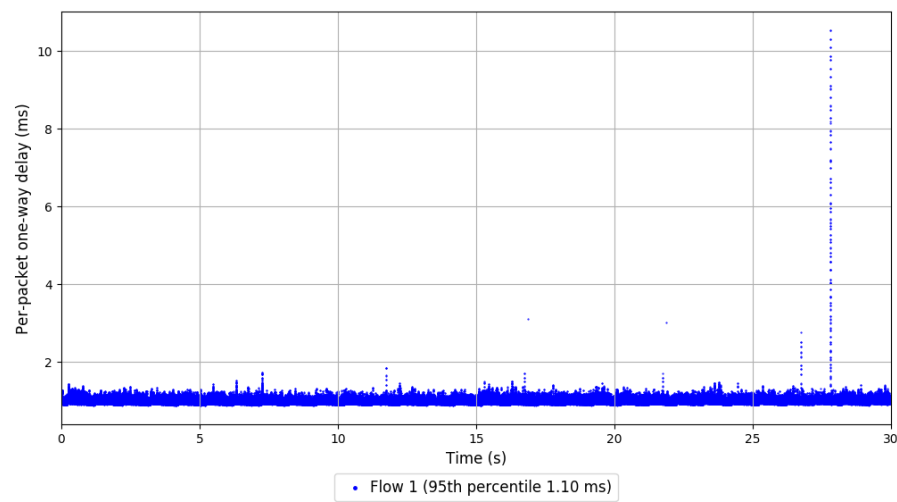
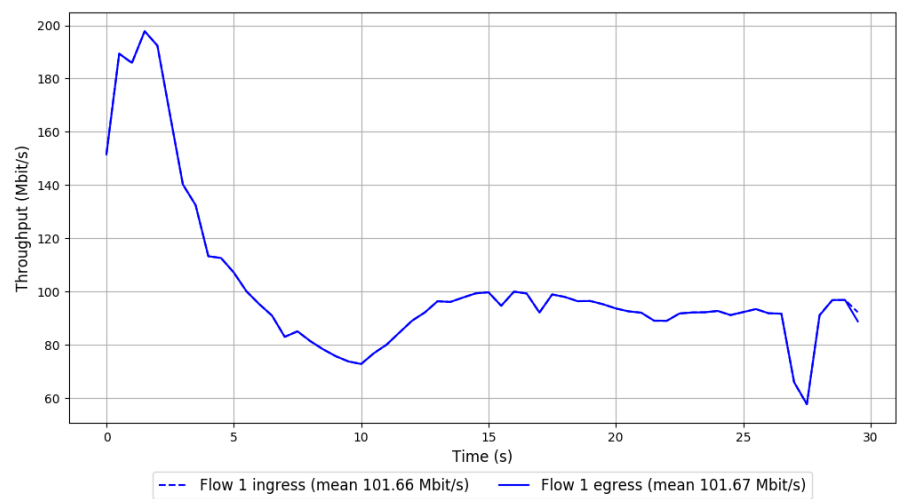


Run 3: Statistics of Copa

Start at: 2018-03-13 02:00:48
End at: 2018-03-13 02:01:18
Local clock offset: 0.73 ms
Remote clock offset: -5.425 ms

Below is generated by plot.py at 2018-03-13 11:23:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 101.67 Mbit/s
95th percentile per-packet one-way delay: 1.102 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 101.67 Mbit/s
95th percentile per-packet one-way delay: 1.102 ms
Loss rate: 0.06%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-03-13 02:28:54

End at: 2018-03-13 02:29:24

Local clock offset: 0.987 ms

Remote clock offset: -5.338 ms

Below is generated by plot.py at 2018-03-13 11:23:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.57 Mbit/s

95th percentile per-packet one-way delay: 1.224 ms

Loss rate: 0.05%

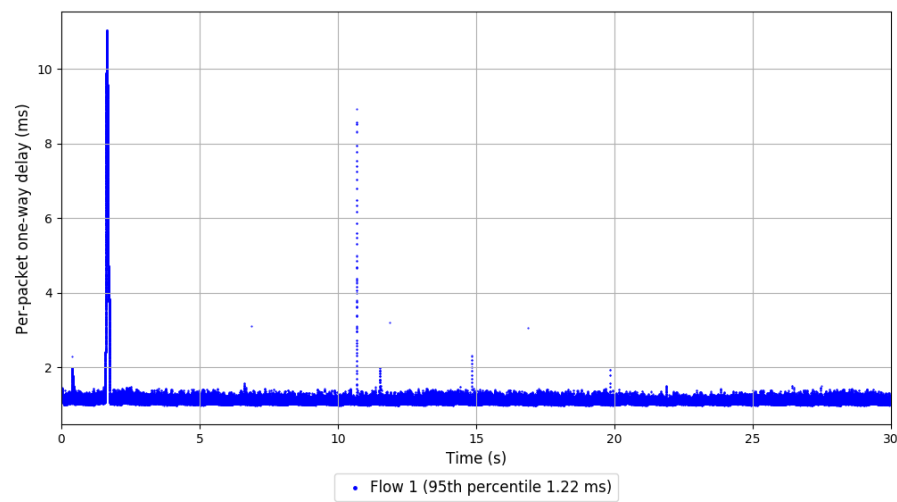
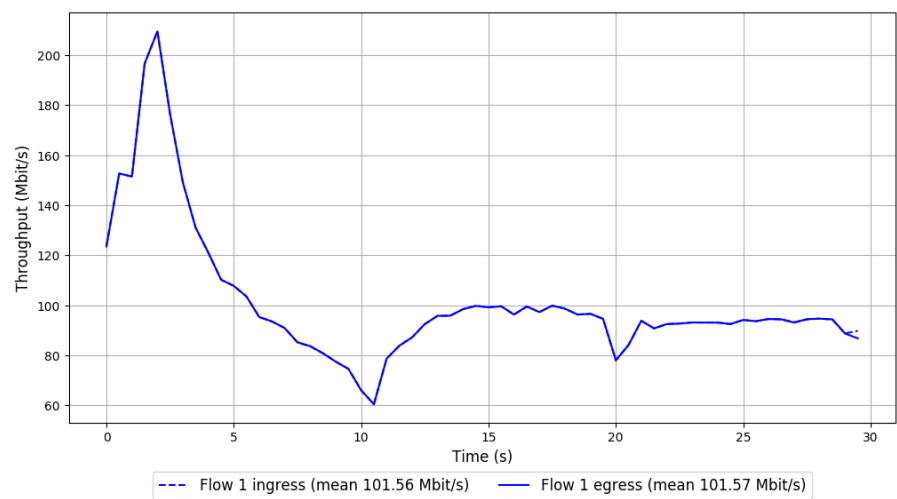
-- Flow 1:

Average throughput: 101.57 Mbit/s

95th percentile per-packet one-way delay: 1.224 ms

Loss rate: 0.05%

Run 4: Report of Copa — Data Link

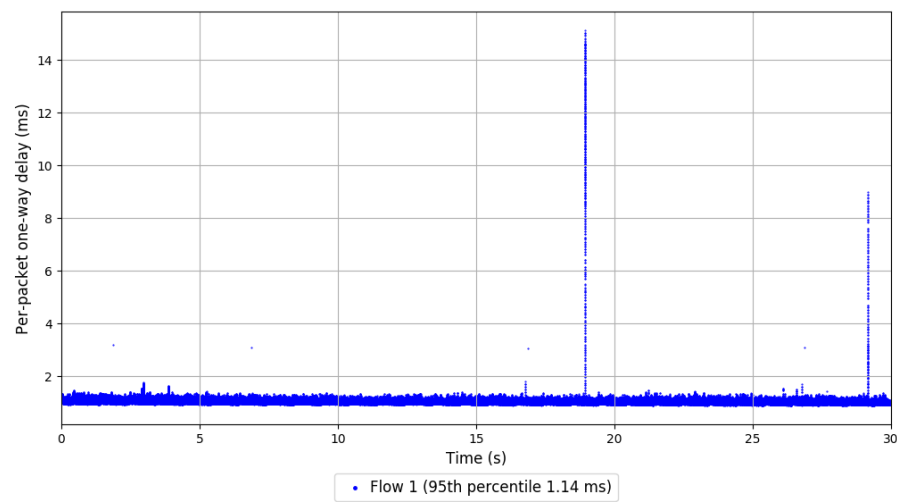
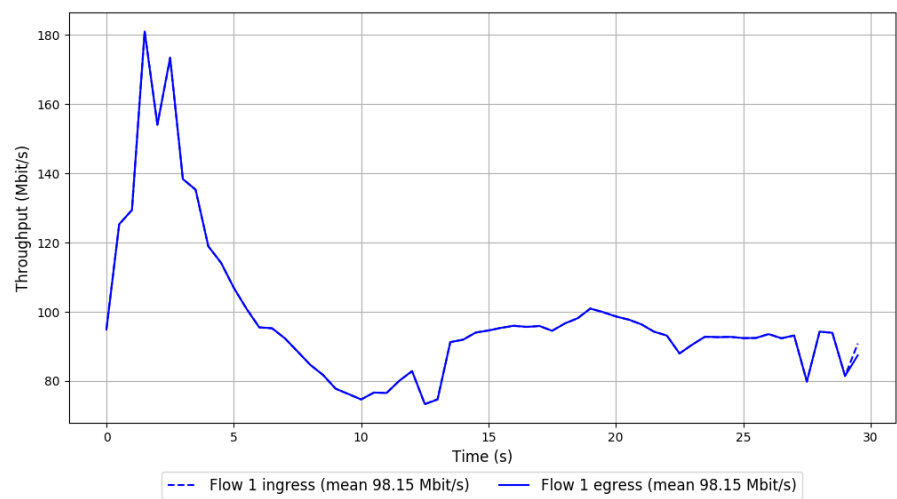


Run 5: Statistics of Copa

Start at: 2018-03-13 02:56:51
End at: 2018-03-13 02:57:21
Local clock offset: 1.039 ms
Remote clock offset: -5.841 ms

Below is generated by plot.py at 2018-03-13 11:23:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 98.15 Mbit/s
95th percentile per-packet one-way delay: 1.135 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 98.15 Mbit/s
95th percentile per-packet one-way delay: 1.135 ms
Loss rate: 0.06%

Run 5: Report of Copa — Data Link

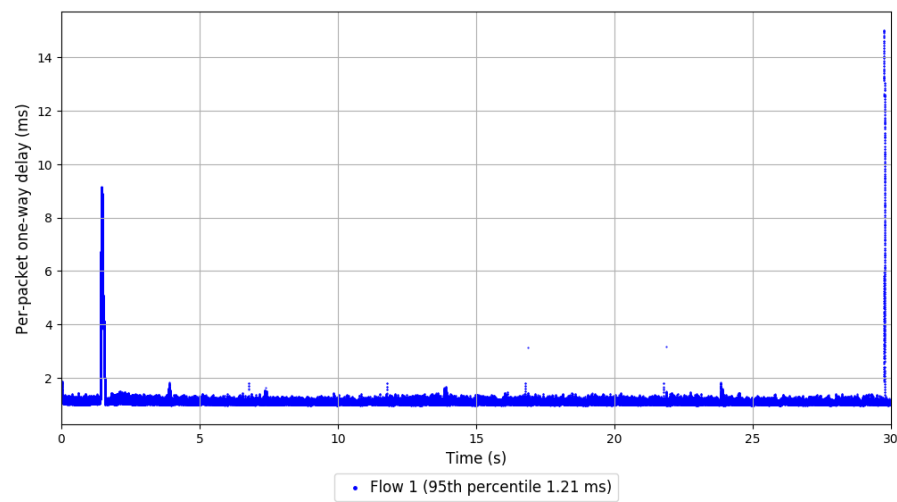
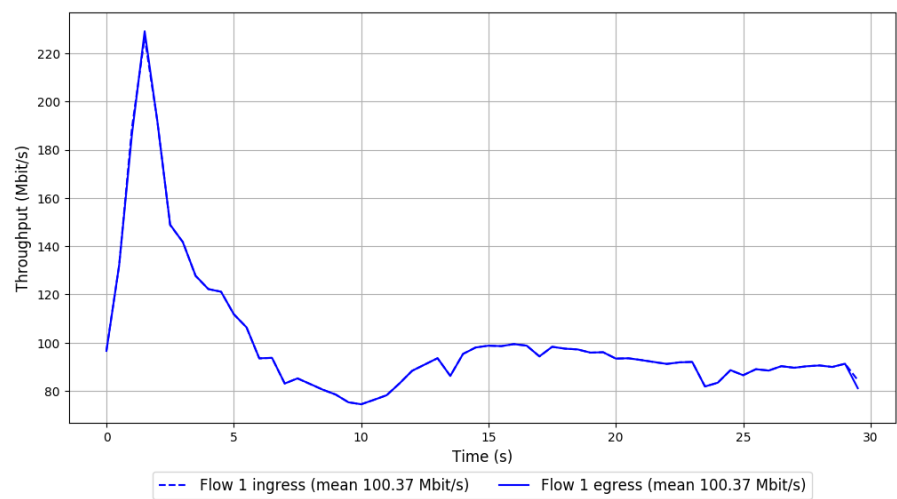


Run 6: Statistics of Copa

Start at: 2018-03-13 03:24:30
End at: 2018-03-13 03:25:00
Local clock offset: 1.101 ms
Remote clock offset: -6.599 ms

Below is generated by plot.py at 2018-03-13 11:24:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 100.37 Mbit/s
95th percentile per-packet one-way delay: 1.211 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 100.37 Mbit/s
95th percentile per-packet one-way delay: 1.211 ms
Loss rate: 0.06%

Run 6: Report of Copa — Data Link

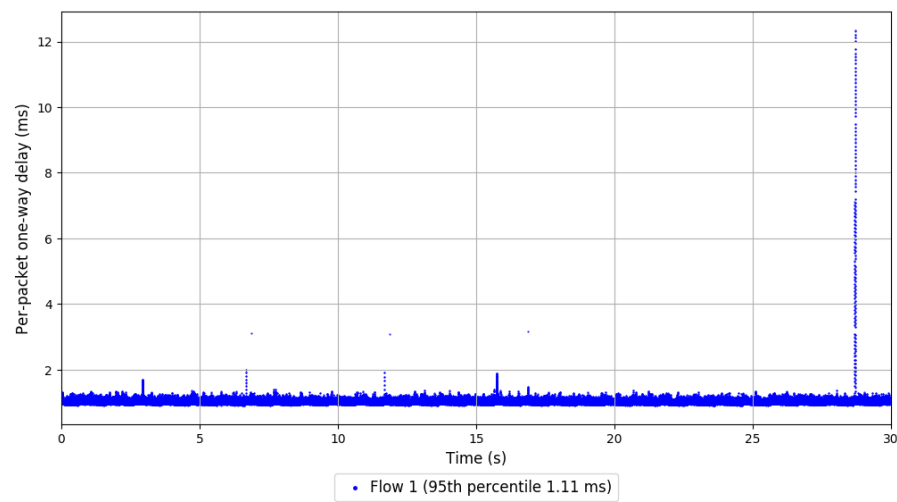
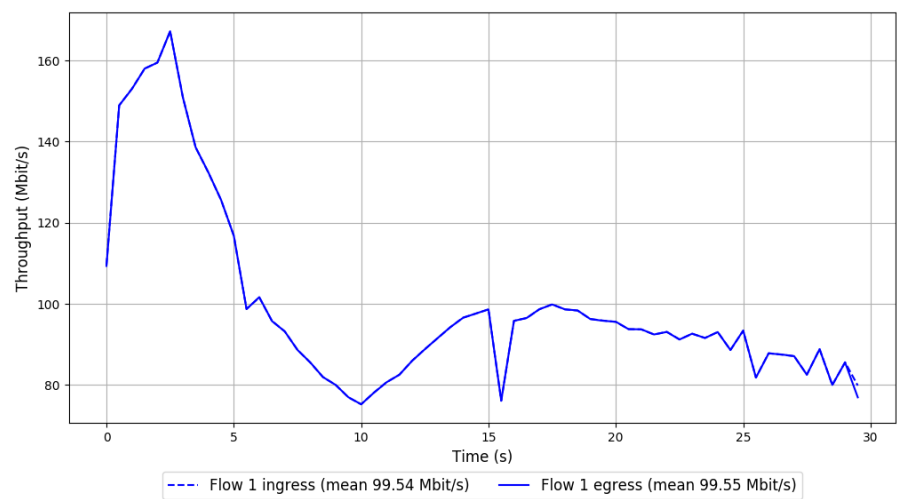


Run 7: Statistics of Copa

Start at: 2018-03-13 03:52:17
End at: 2018-03-13 03:52:47
Local clock offset: 1.11 ms
Remote clock offset: -6.033 ms

Below is generated by plot.py at 2018-03-13 11:24:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 99.55 Mbit/s
95th percentile per-packet one-way delay: 1.106 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 99.55 Mbit/s
95th percentile per-packet one-way delay: 1.106 ms
Loss rate: 0.05%

Run 7: Report of Copa — Data Link

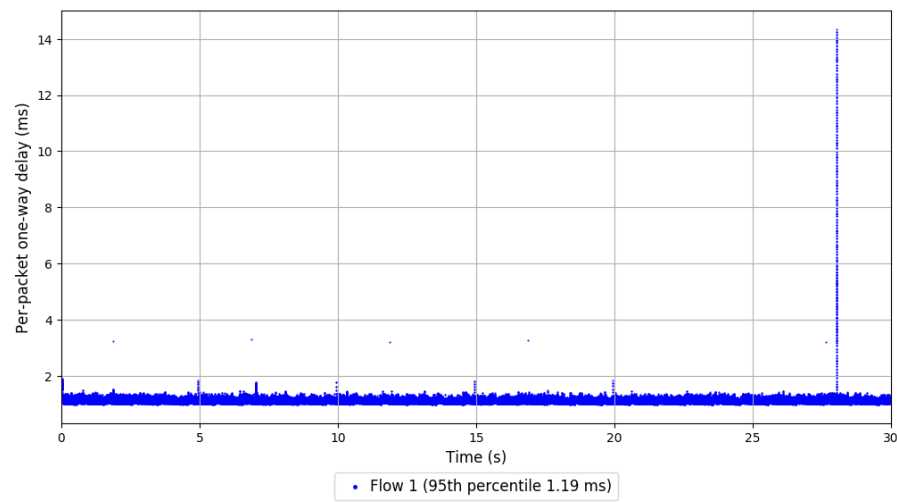
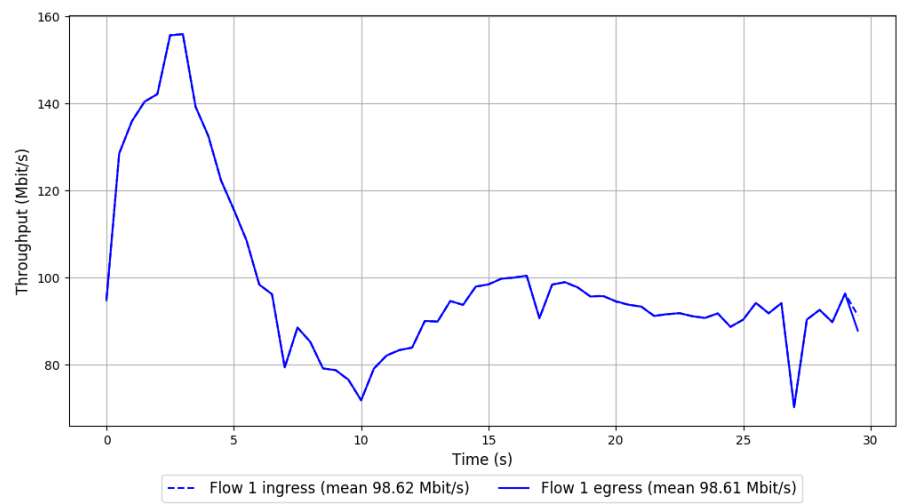


Run 8: Statistics of Copa

Start at: 2018-03-13 04:20:06
End at: 2018-03-13 04:20:36
Local clock offset: 1.295 ms
Remote clock offset: -5.792 ms

Below is generated by plot.py at 2018-03-13 11:24:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 98.61 Mbit/s
95th percentile per-packet one-way delay: 1.189 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 98.61 Mbit/s
95th percentile per-packet one-way delay: 1.189 ms
Loss rate: 0.06%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-03-13 04:48:21

End at: 2018-03-13 04:48:51

Local clock offset: 1.353 ms

Remote clock offset: -5.56 ms

Below is generated by plot.py at 2018-03-13 11:24:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 99.89 Mbit/s

95th percentile per-packet one-way delay: 1.080 ms

Loss rate: 0.06%

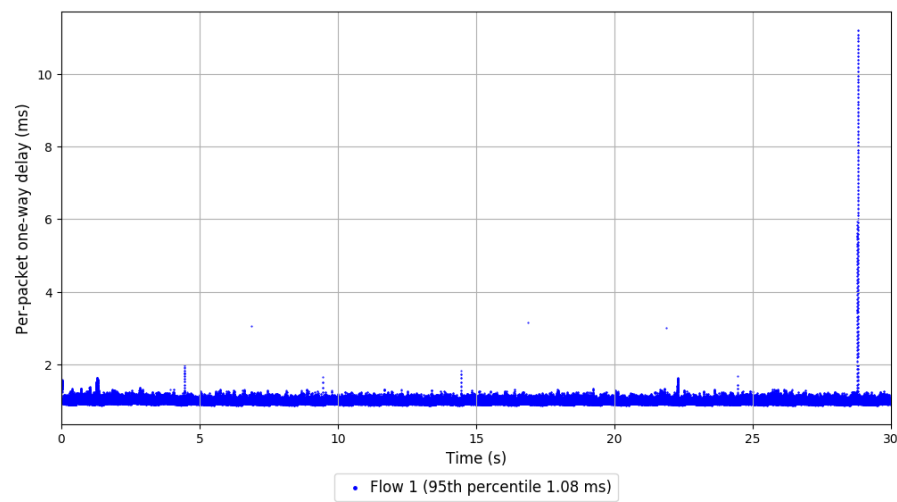
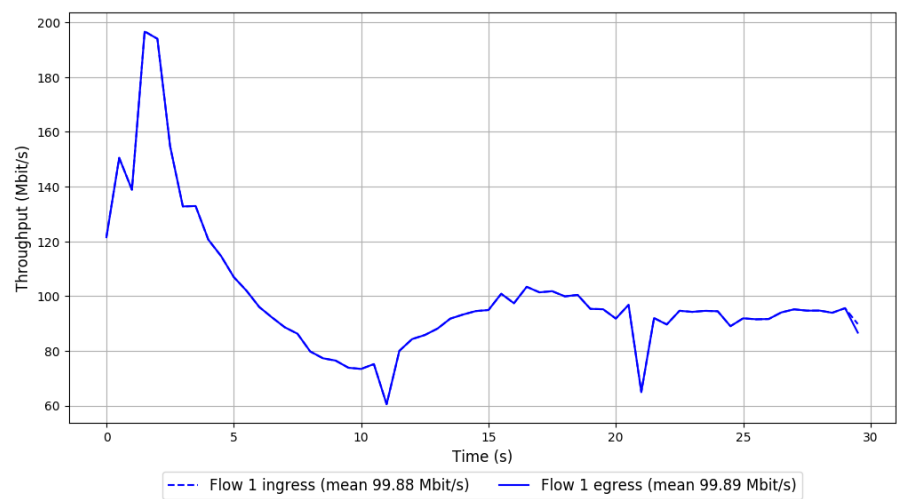
-- Flow 1:

Average throughput: 99.89 Mbit/s

95th percentile per-packet one-way delay: 1.080 ms

Loss rate: 0.06%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-03-13 05:15:42

End at: 2018-03-13 05:16:12

Local clock offset: 1.897 ms

Remote clock offset: -5.343 ms

Below is generated by plot.py at 2018-03-13 11:25:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.09 Mbit/s

95th percentile per-packet one-way delay: 1.172 ms

Loss rate: 0.06%

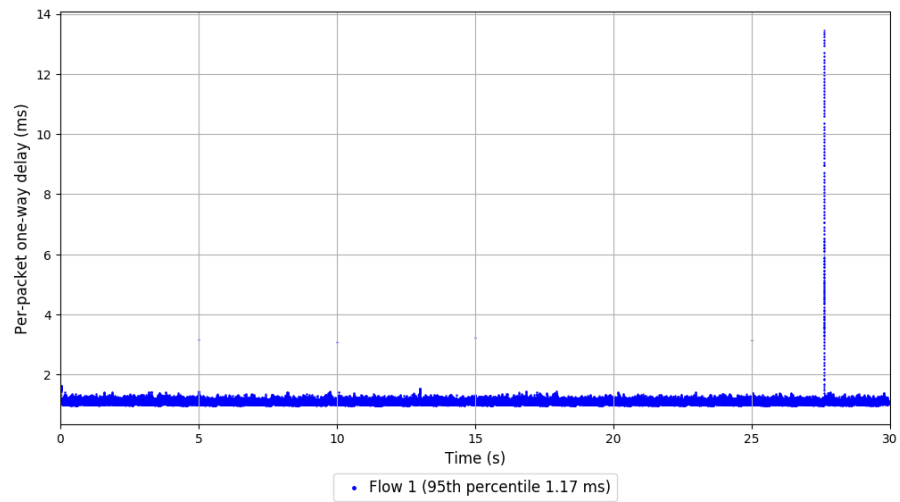
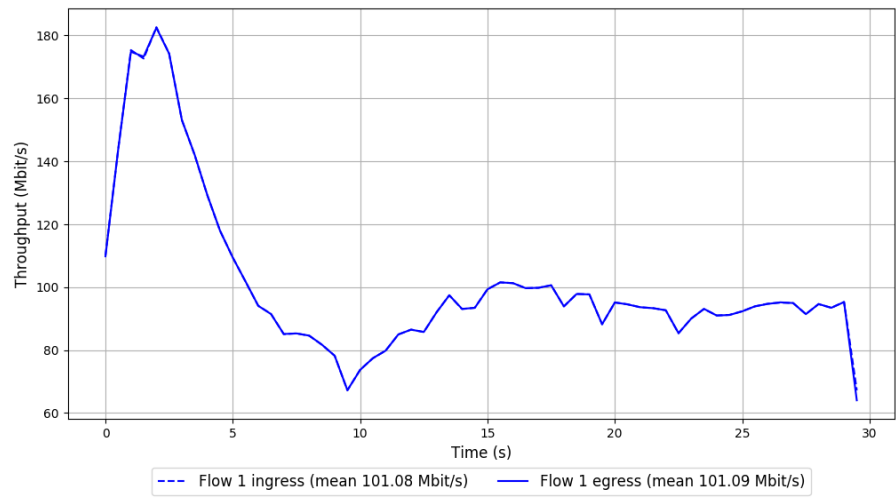
-- Flow 1:

Average throughput: 101.09 Mbit/s

95th percentile per-packet one-way delay: 1.172 ms

Loss rate: 0.06%

Run 10: Report of Copa — Data Link

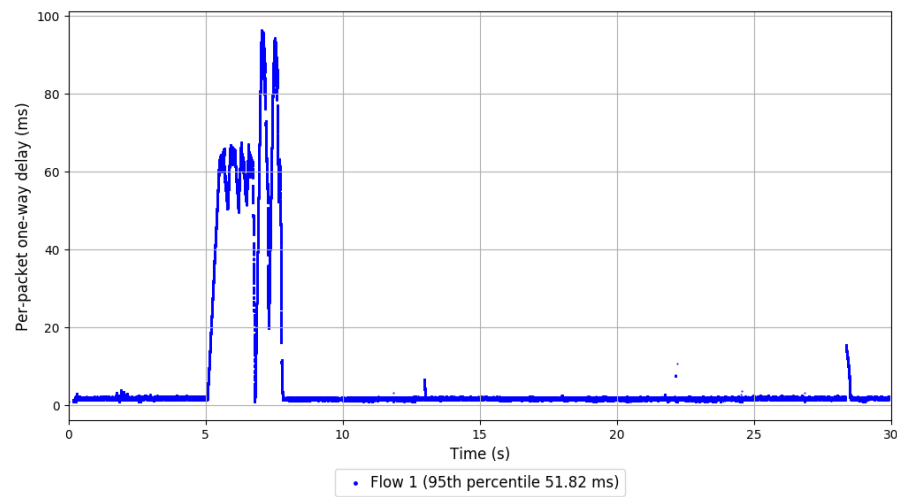
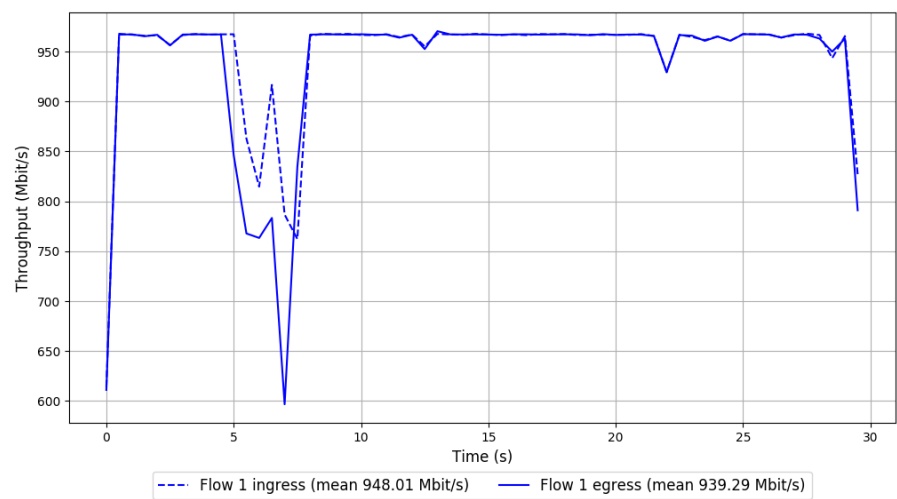


Run 1: Statistics of FillP

Start at: 2018-03-13 00:57:14
End at: 2018-03-13 00:57:44
Local clock offset: 0.806 ms
Remote clock offset: -5.294 ms

Below is generated by plot.py at 2018-03-13 11:38:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 939.29 Mbit/s
95th percentile per-packet one-way delay: 51.817 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 939.29 Mbit/s
95th percentile per-packet one-way delay: 51.817 ms
Loss rate: 0.99%

Run 1: Report of FillP — Data Link

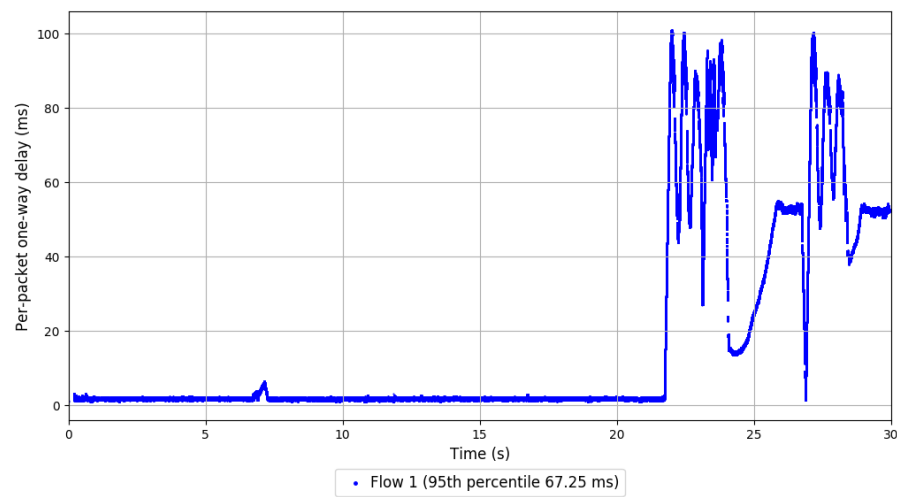
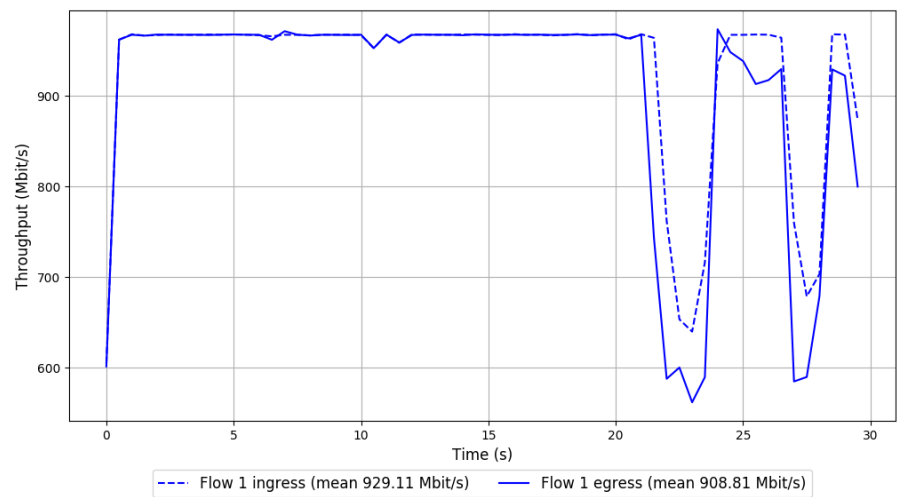


Run 2: Statistics of FillP

Start at: 2018-03-13 01:25:25
End at: 2018-03-13 01:25:55
Local clock offset: 1.074 ms
Remote clock offset: -6.154 ms

Below is generated by plot.py at 2018-03-13 11:38:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 908.81 Mbit/s
95th percentile per-packet one-way delay: 67.246 ms
Loss rate: 2.25%
-- Flow 1:
Average throughput: 908.81 Mbit/s
95th percentile per-packet one-way delay: 67.246 ms
Loss rate: 2.25%

Run 2: Report of FillP — Data Link

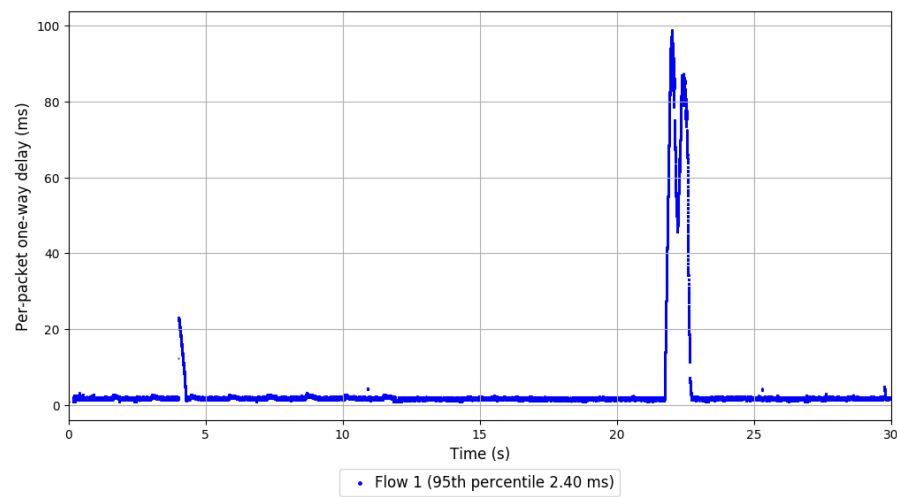
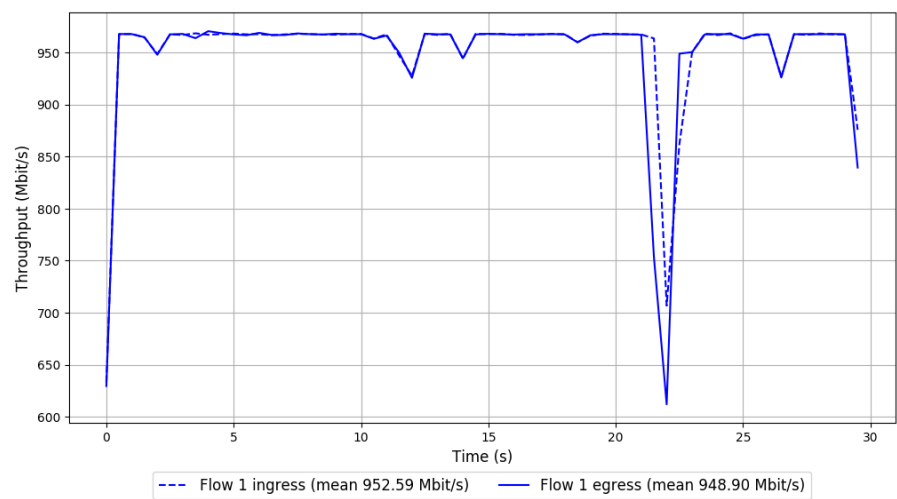


Run 3: Statistics of FillP

Start at: 2018-03-13 01:53:03
End at: 2018-03-13 01:53:33
Local clock offset: 0.798 ms
Remote clock offset: -5.605 ms

Below is generated by plot.py at 2018-03-13 11:38:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 948.90 Mbit/s
95th percentile per-packet one-way delay: 2.401 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 948.90 Mbit/s
95th percentile per-packet one-way delay: 2.401 ms
Loss rate: 0.45%

Run 3: Report of FillP — Data Link

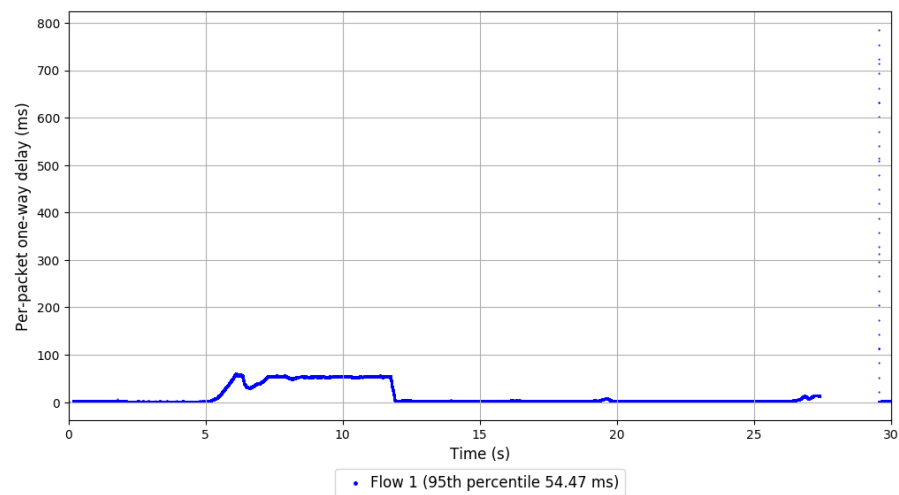
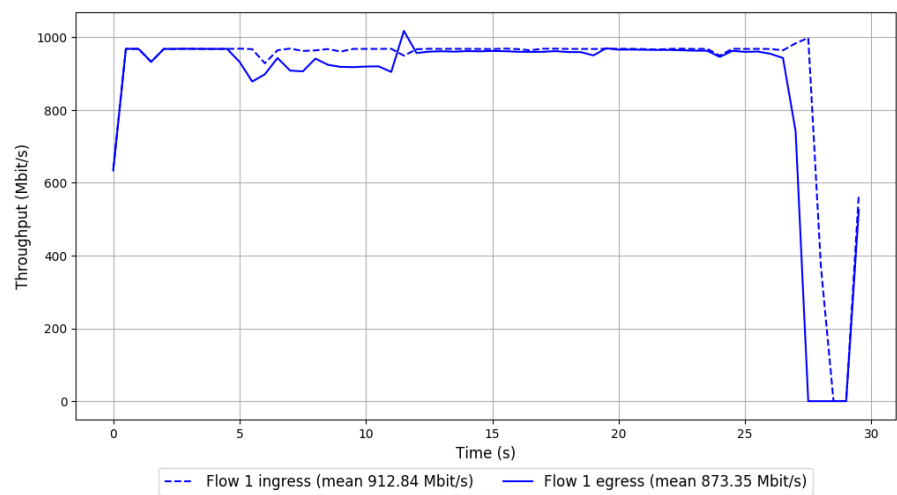


Run 4: Statistics of FillP

Start at: 2018-03-13 02:21:13
End at: 2018-03-13 02:21:43
Local clock offset: 0.936 ms
Remote clock offset: -5.201 ms

Below is generated by plot.py at 2018-03-13 11:38:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 873.35 Mbit/s
95th percentile per-packet one-way delay: 54.465 ms
Loss rate: 4.39%
-- Flow 1:
Average throughput: 873.35 Mbit/s
95th percentile per-packet one-way delay: 54.465 ms
Loss rate: 4.39%

Run 4: Report of FillP — Data Link

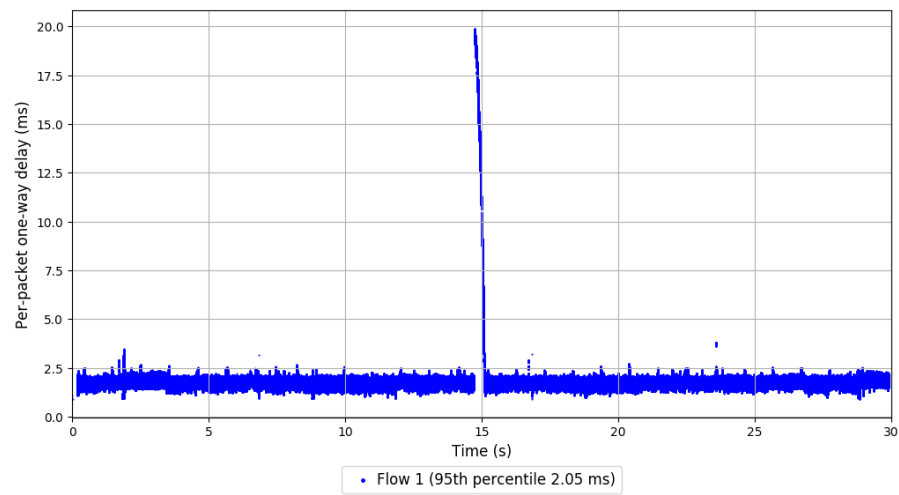
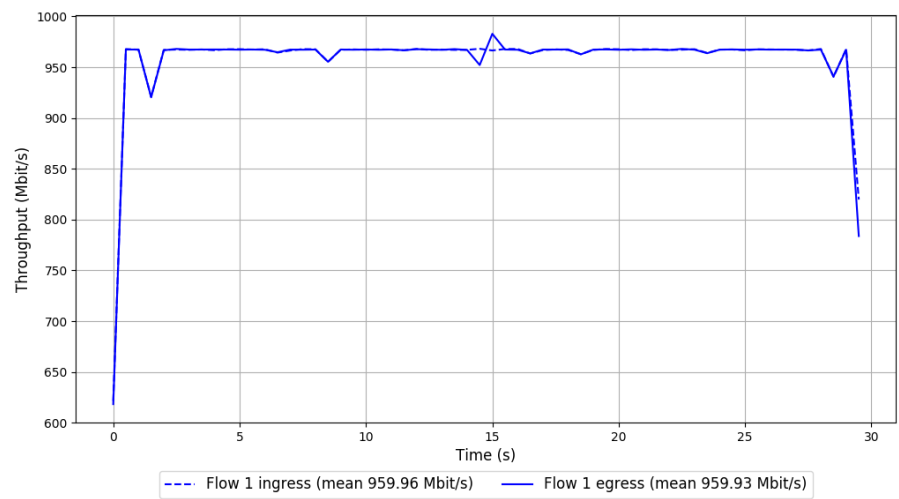


Run 5: Statistics of FillP

Start at: 2018-03-13 02:49:05
End at: 2018-03-13 02:49:35
Local clock offset: 0.941 ms
Remote clock offset: -5.344 ms

Below is generated by plot.py at 2018-03-13 11:39:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 959.93 Mbit/s
95th percentile per-packet one-way delay: 2.053 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 959.93 Mbit/s
95th percentile per-packet one-way delay: 2.053 ms
Loss rate: 0.07%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-03-13 03:16:49

End at: 2018-03-13 03:17:19

Local clock offset: 1.115 ms

Remote clock offset: -6.51 ms

Below is generated by plot.py at 2018-03-13 11:39:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 953.31 Mbit/s

95th percentile per-packet one-way delay: 2.098 ms

Loss rate: 0.37%

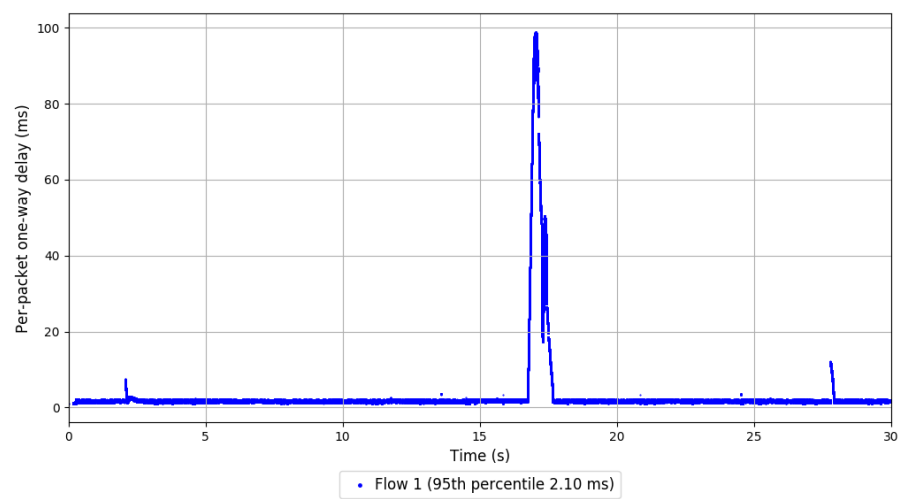
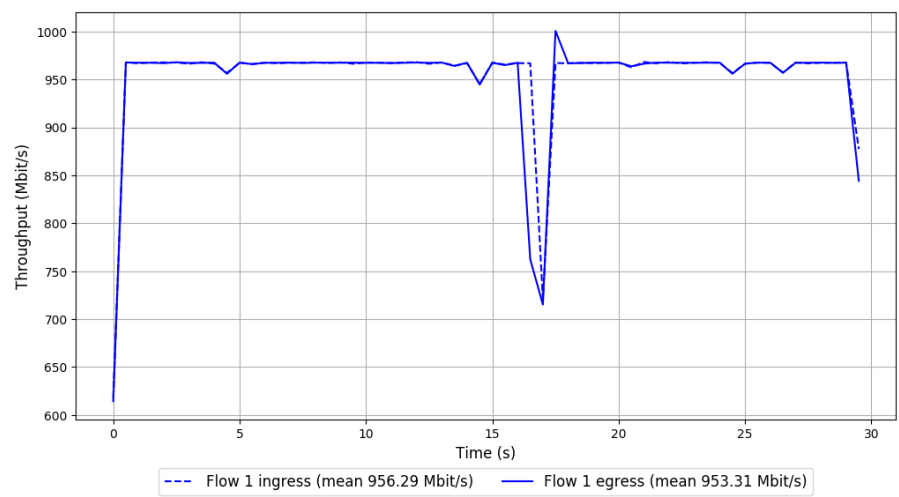
-- Flow 1:

Average throughput: 953.31 Mbit/s

95th percentile per-packet one-way delay: 2.098 ms

Loss rate: 0.37%

Run 6: Report of FillP — Data Link

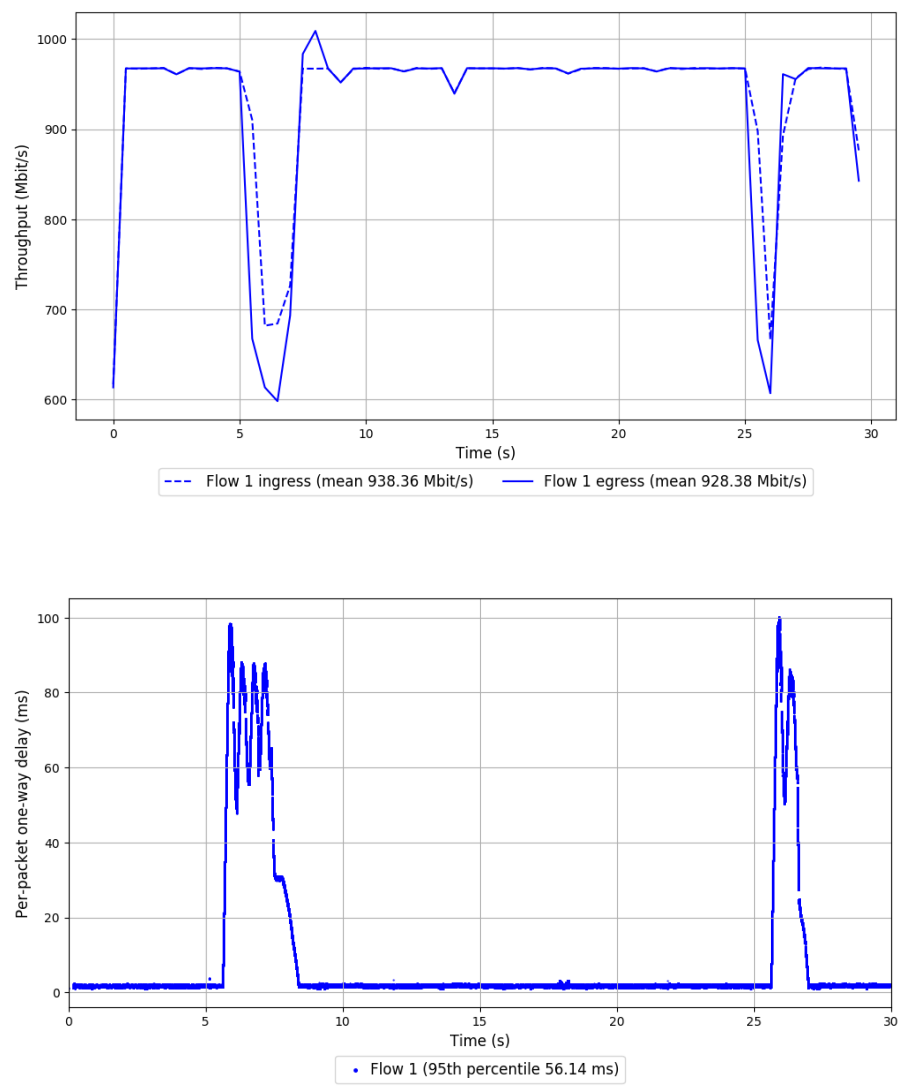


Run 7: Statistics of FillP

Start at: 2018-03-13 03:44:26
End at: 2018-03-13 03:44:56
Local clock offset: 1.097 ms
Remote clock offset: -6.128 ms

Below is generated by plot.py at 2018-03-13 11:39:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 928.38 Mbit/s
95th percentile per-packet one-way delay: 56.139 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 928.38 Mbit/s
95th percentile per-packet one-way delay: 56.139 ms
Loss rate: 1.13%

Run 7: Report of FillP — Data Link

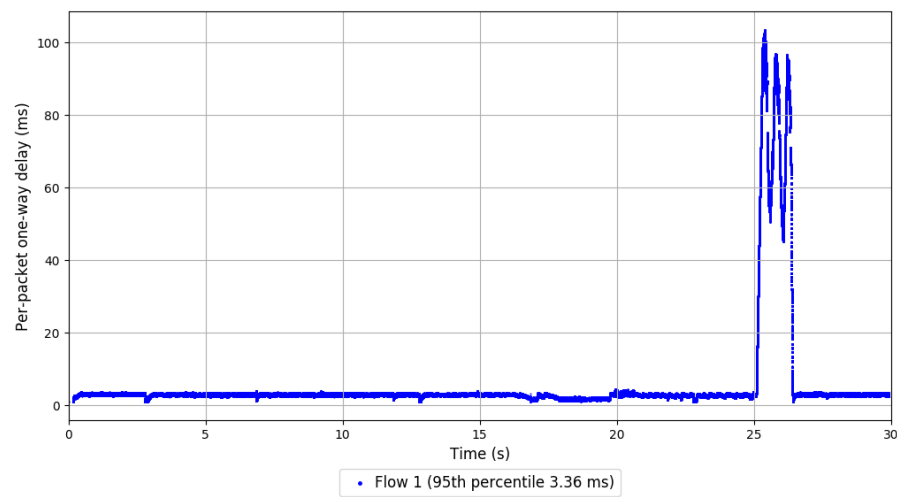
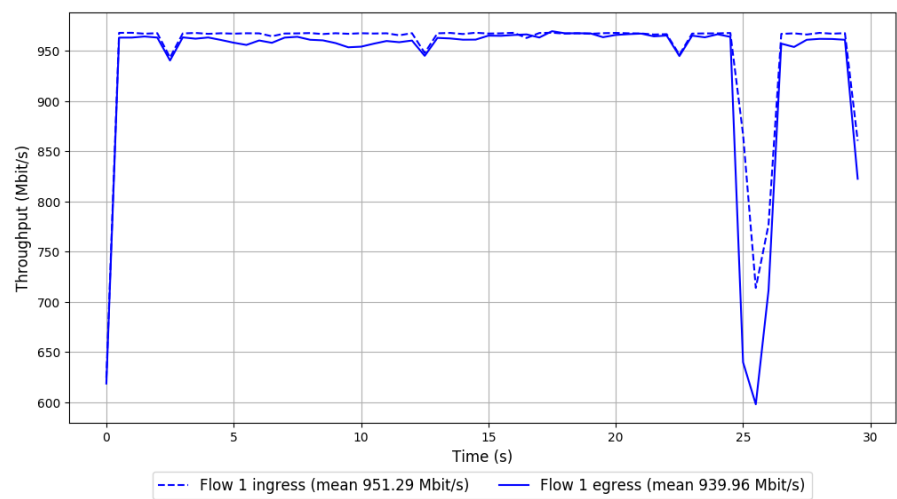


Run 8: Statistics of FillP

Start at: 2018-03-13 04:12:20
End at: 2018-03-13 04:12:50
Local clock offset: 1.278 ms
Remote clock offset: -5.868 ms

Below is generated by plot.py at 2018-03-13 11:39:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 939.96 Mbit/s
95th percentile per-packet one-way delay: 3.358 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 939.96 Mbit/s
95th percentile per-packet one-way delay: 3.358 ms
Loss rate: 1.25%

Run 8: Report of FillP — Data Link

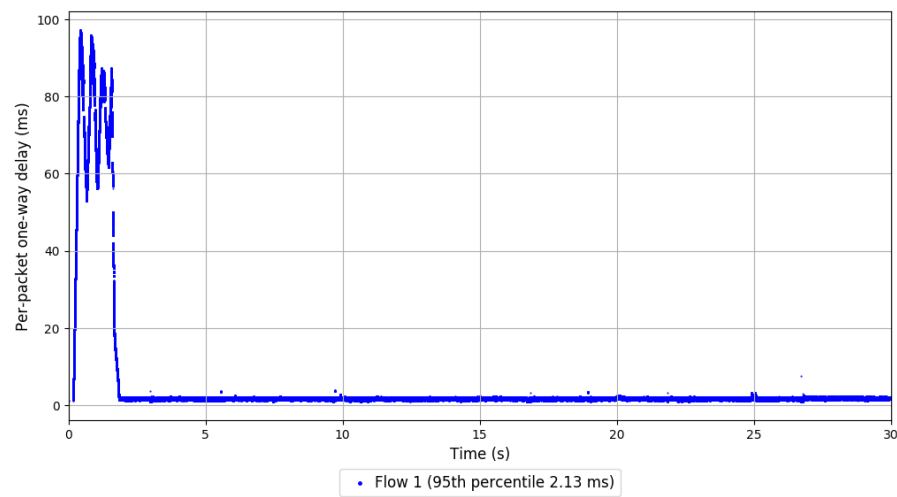
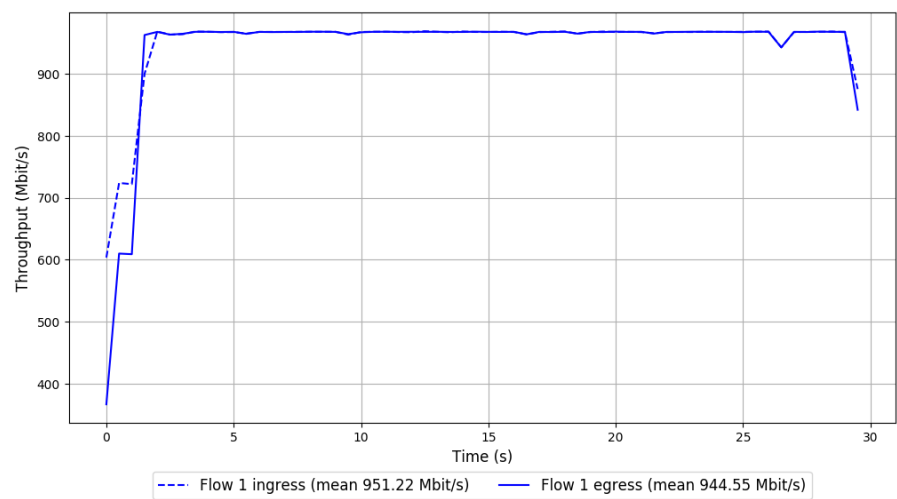


Run 9: Statistics of FillP

Start at: 2018-03-13 04:40:16
End at: 2018-03-13 04:40:46
Local clock offset: 1.317 ms
Remote clock offset: -5.613 ms

Below is generated by plot.py at 2018-03-13 11:52:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 944.55 Mbit/s
95th percentile per-packet one-way delay: 2.127 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 944.55 Mbit/s
95th percentile per-packet one-way delay: 2.127 ms
Loss rate: 0.76%

Run 9: Report of FillP — Data Link

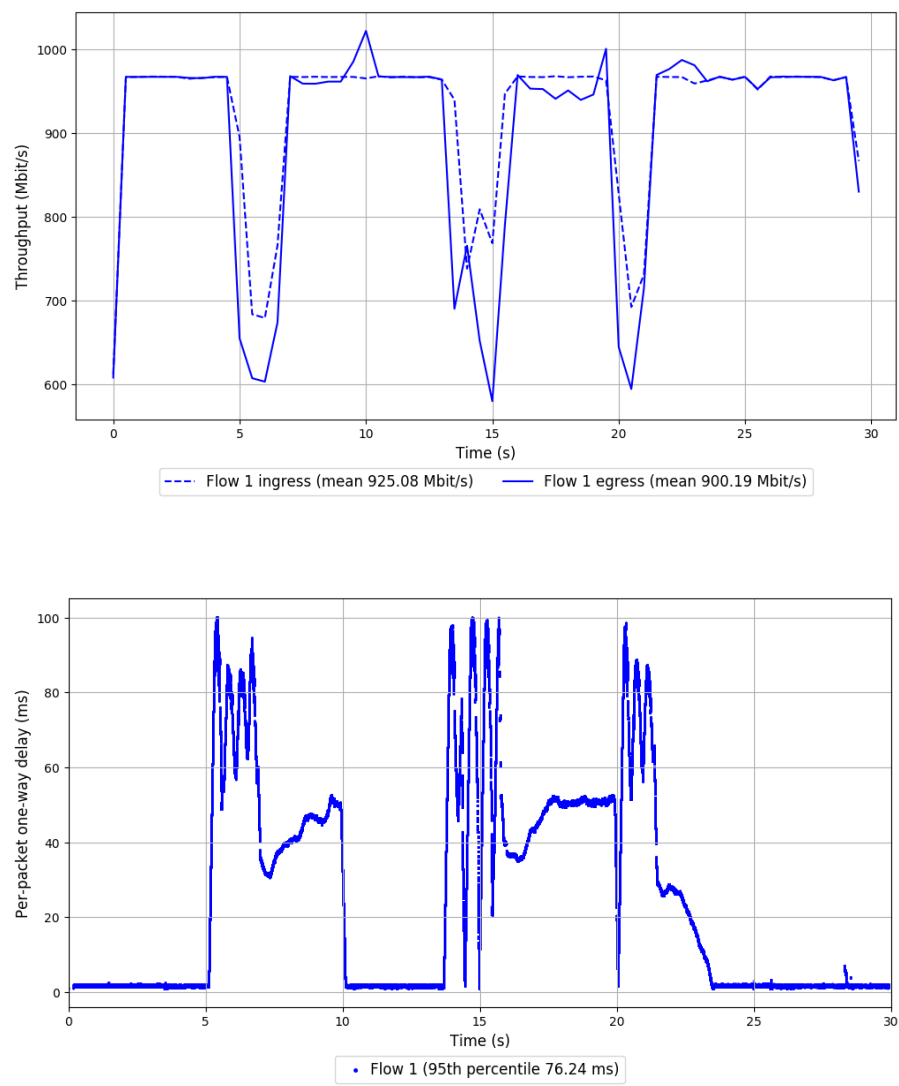


Run 10: Statistics of FillP

Start at: 2018-03-13 05:08:08
End at: 2018-03-13 05:08:38
Local clock offset: 1.609 ms
Remote clock offset: -5.552 ms

Below is generated by plot.py at 2018-03-13 11:52:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 900.19 Mbit/s
95th percentile per-packet one-way delay: 76.241 ms
Loss rate: 2.76%
-- Flow 1:
Average throughput: 900.19 Mbit/s
95th percentile per-packet one-way delay: 76.241 ms
Loss rate: 2.76%

Run 10: Report of FillP — Data Link

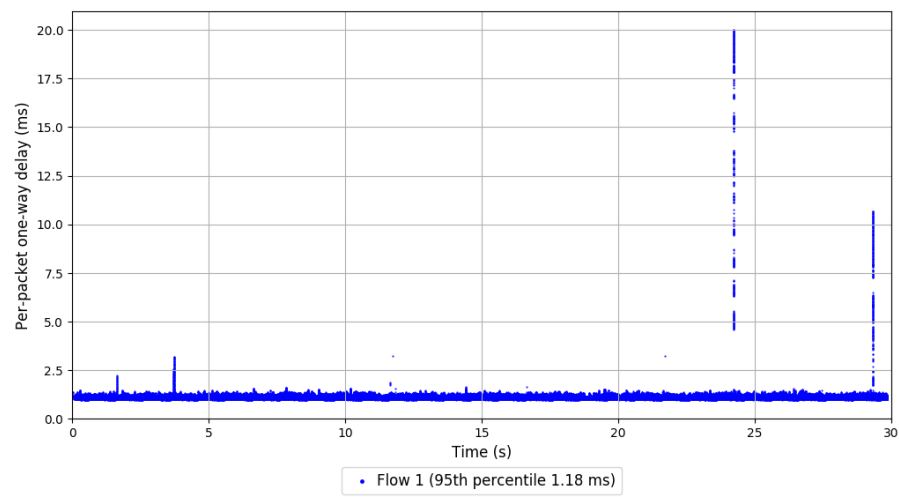
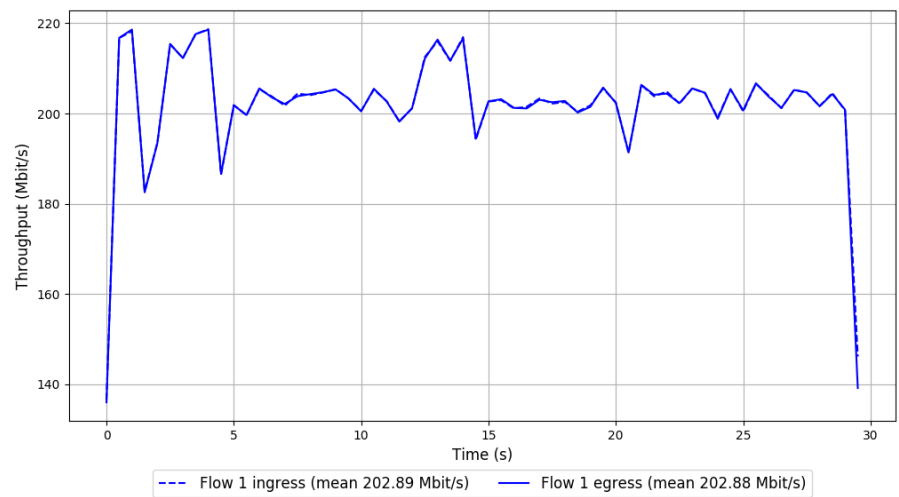


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-03-13 01:06:44
End at: 2018-03-13 01:07:14
Local clock offset: 0.968 ms
Remote clock offset: -5.241 ms

# Below is generated by plot.py at 2018-03-13 11:52:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 202.88 Mbit/s
95th percentile per-packet one-way delay: 1.179 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 202.88 Mbit/s
95th percentile per-packet one-way delay: 1.179 ms
Loss rate: 0.06%
```

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-03-13 01:34:38

End at: 2018-03-13 01:35:08

Local clock offset: 1.19 ms

Remote clock offset: -6.341 ms

Below is generated by plot.py at 2018-03-13 11:52:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.32 Mbit/s

95th percentile per-packet one-way delay: 1.197 ms

Loss rate: 0.07%

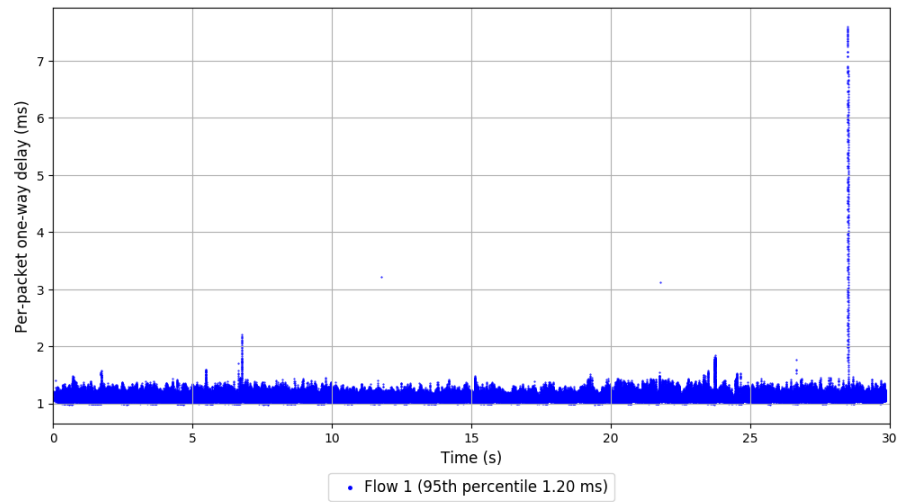
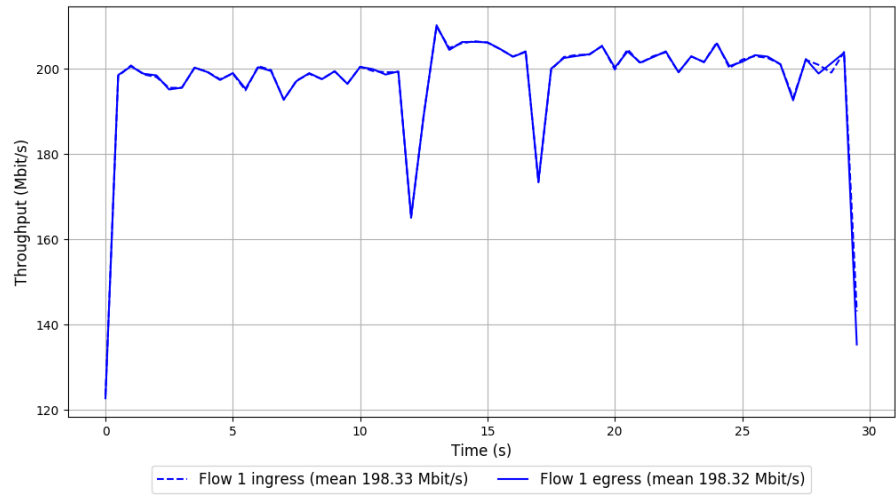
-- Flow 1:

Average throughput: 198.32 Mbit/s

95th percentile per-packet one-way delay: 1.197 ms

Loss rate: 0.07%

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



Run 3: Statistics of Indigo-1-32

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

End at: 2018-03-13 02:02:43

Local clock offset: 0.726 ms

Remote clock offset: -5.393 ms

Below is generated by plot.py at 2018-03-13 11:52:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.16 Mbit/s

95th percentile per-packet one-way delay: 1.130 ms

Loss rate: 0.07%

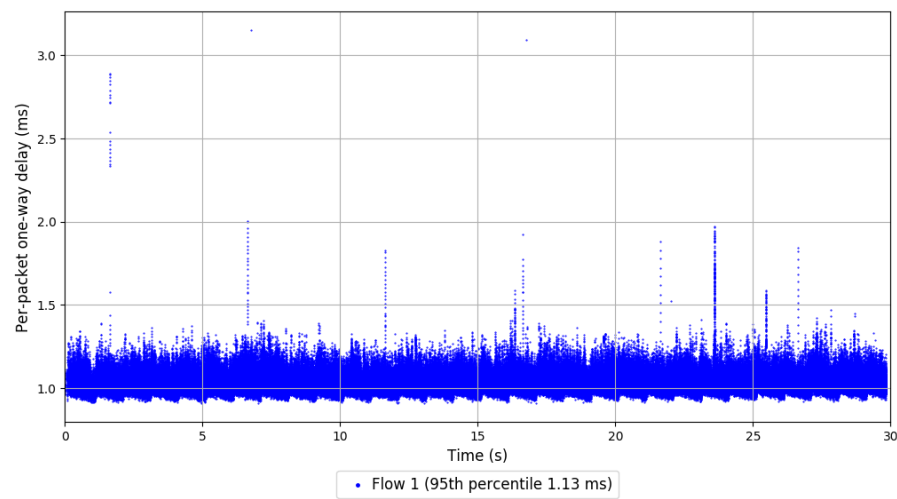
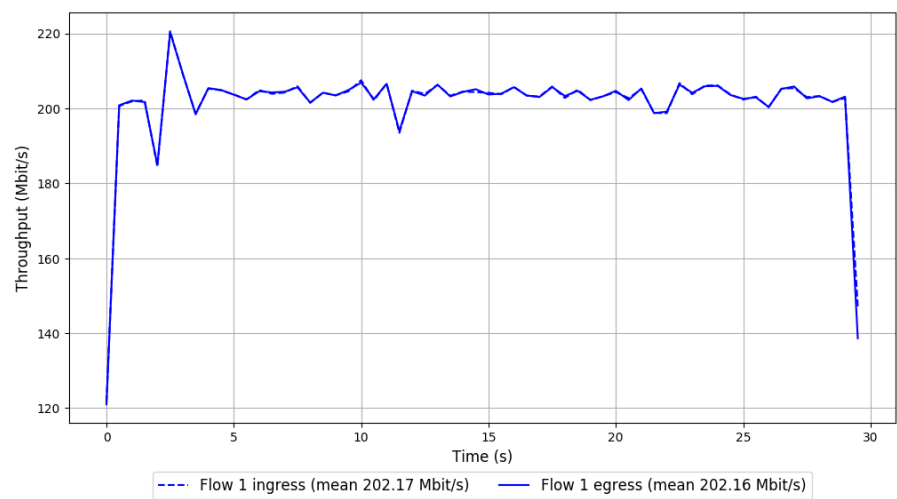
-- Flow 1:

Average throughput: 202.16 Mbit/s

95th percentile per-packet one-way delay: 1.130 ms

Loss rate: 0.07%

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

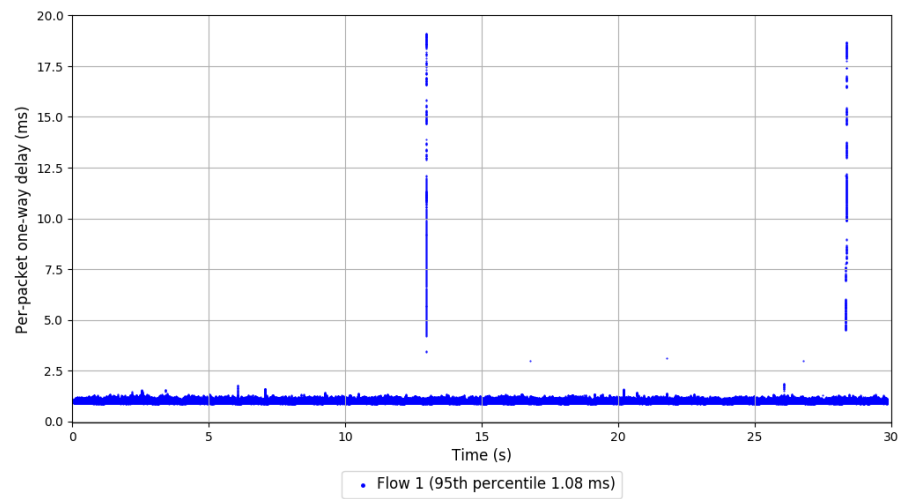
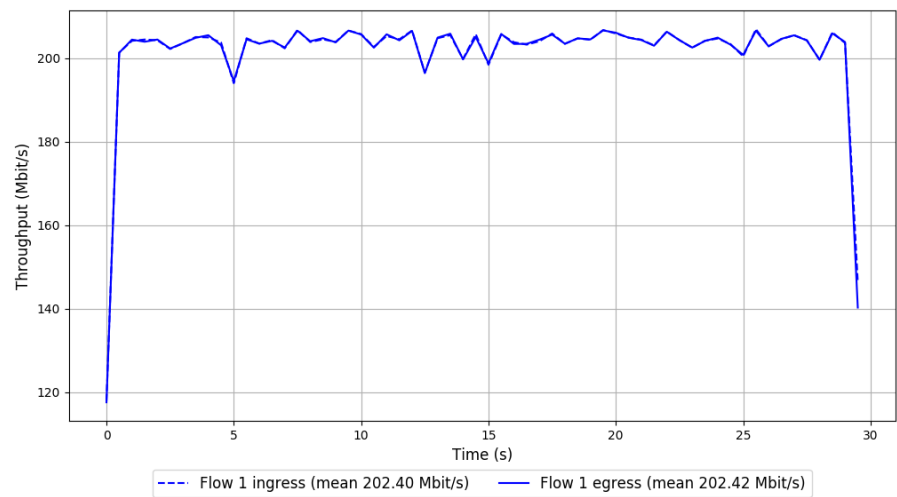


Run 4: Statistics of Indigo-1-32

Start at: 2018-03-13 02:30:19
End at: 2018-03-13 02:30:49
Local clock offset: 0.906 ms
Remote clock offset: -5.275 ms

Below is generated by plot.py at 2018-03-13 11:52:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 202.42 Mbit/s
95th percentile per-packet one-way delay: 1.081 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 202.42 Mbit/s
95th percentile per-packet one-way delay: 1.081 ms
Loss rate: 0.05%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-03-13 02:58:15

End at: 2018-03-13 02:58:46

Local clock offset: 1.082 ms

Remote clock offset: -5.847 ms

Below is generated by plot.py at 2018-03-13 11:52:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.25 Mbit/s

95th percentile per-packet one-way delay: 1.077 ms

Loss rate: 0.07%

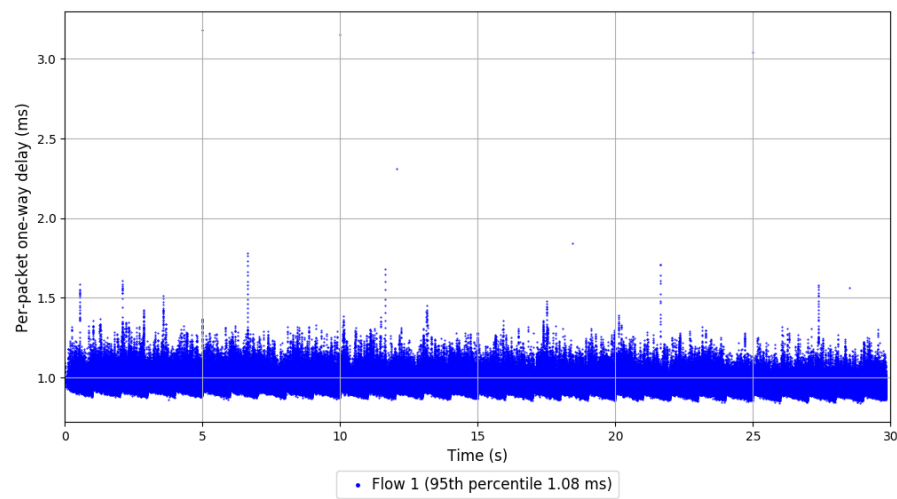
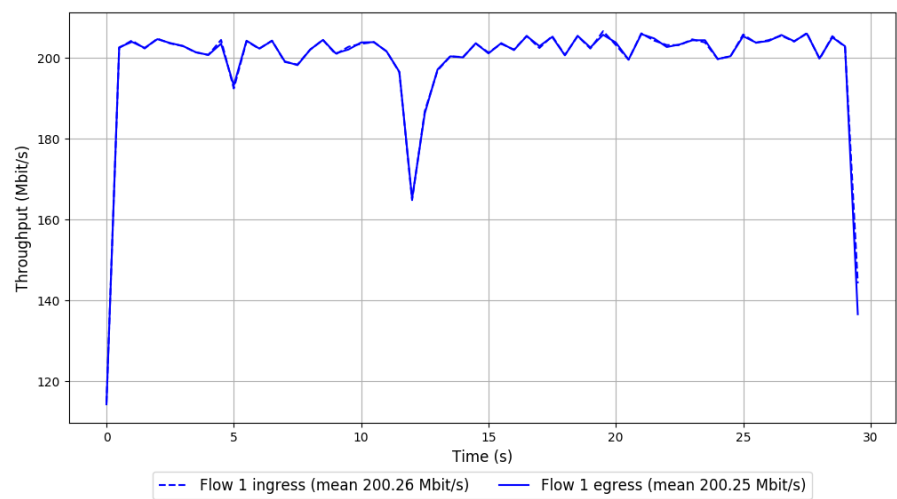
-- Flow 1:

Average throughput: 200.25 Mbit/s

95th percentile per-packet one-way delay: 1.077 ms

Loss rate: 0.07%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-03-13 03:25:54

End at: 2018-03-13 03:26:25

Local clock offset: 1.1 ms

Remote clock offset: -6.546 ms

Below is generated by plot.py at 2018-03-13 11:52:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.70 Mbit/s

95th percentile per-packet one-way delay: 1.125 ms

Loss rate: 0.06%

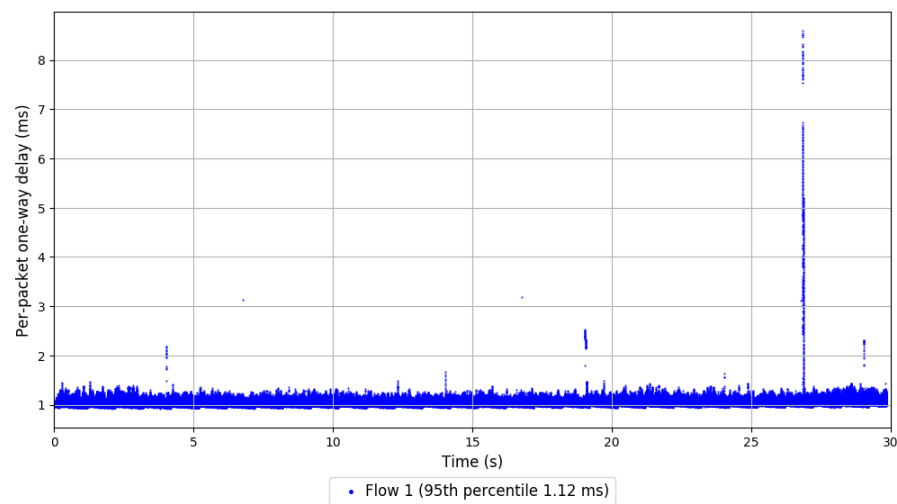
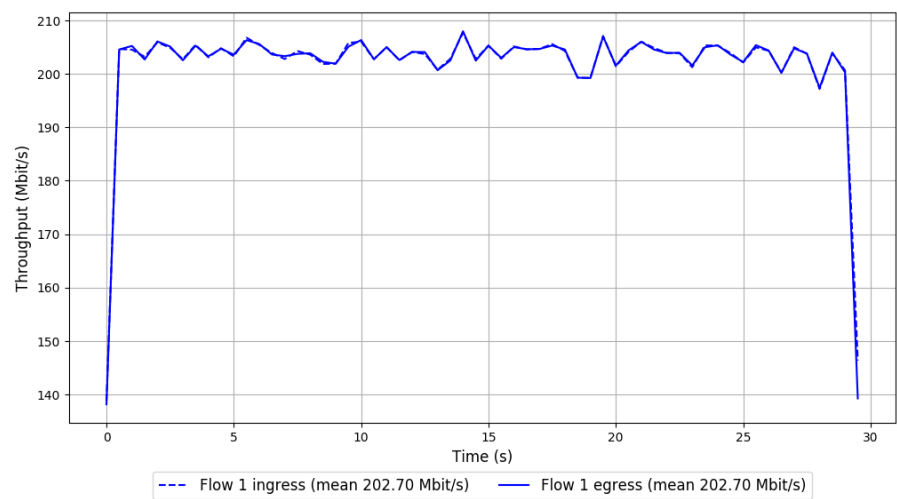
-- Flow 1:

Average throughput: 202.70 Mbit/s

95th percentile per-packet one-way delay: 1.125 ms

Loss rate: 0.06%

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

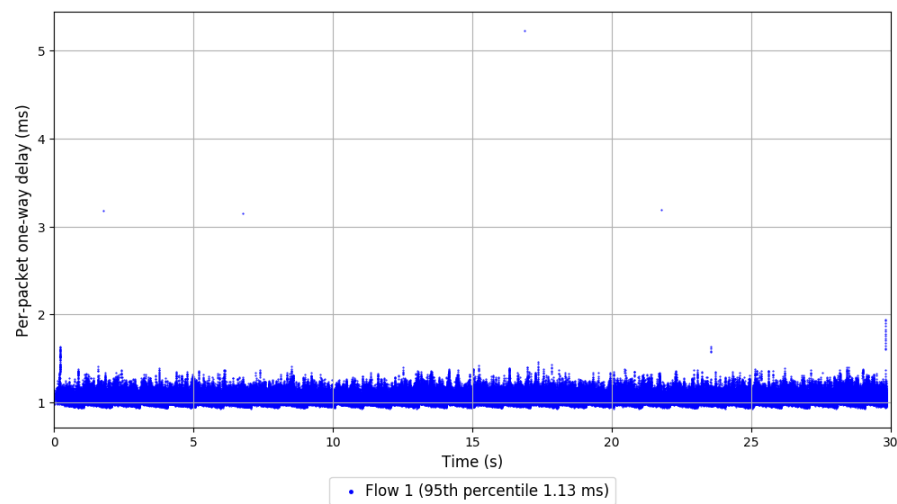
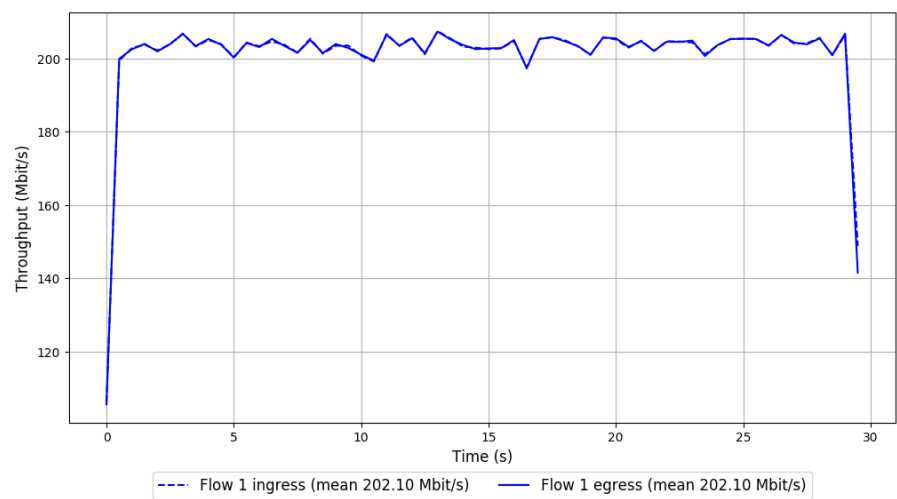


Run 7: Statistics of Indigo-1-32

Start at: 2018-03-13 03:53:43
End at: 2018-03-13 03:54:13
Local clock offset: 1.175 ms
Remote clock offset: -6.006 ms

Below is generated by plot.py at 2018-03-13 11:52:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 202.10 Mbit/s
95th percentile per-packet one-way delay: 1.134 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 202.10 Mbit/s
95th percentile per-packet one-way delay: 1.134 ms
Loss rate: 0.06%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-03-13 04:21:30

End at: 2018-03-13 04:22:00

Local clock offset: 1.286 ms

Remote clock offset: -5.8 ms

Below is generated by plot.py at 2018-03-13 11:52:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.61 Mbit/s

95th percentile per-packet one-way delay: 1.202 ms

Loss rate: 0.06%

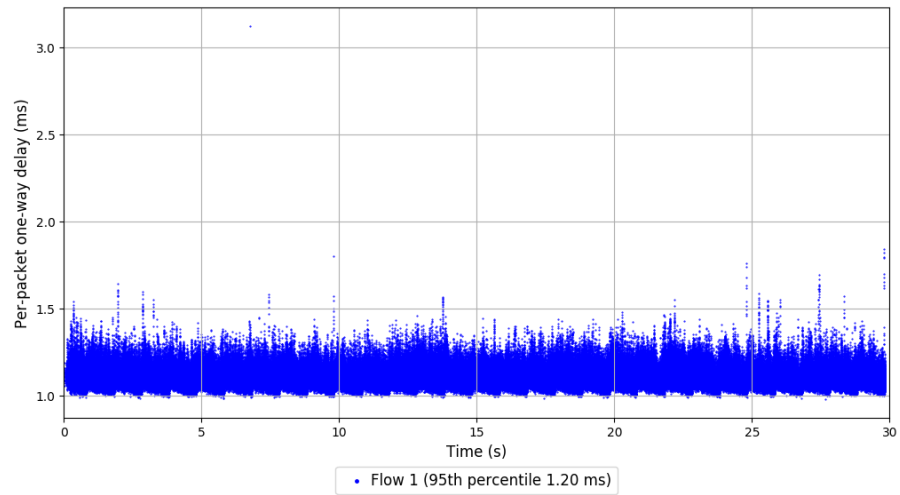
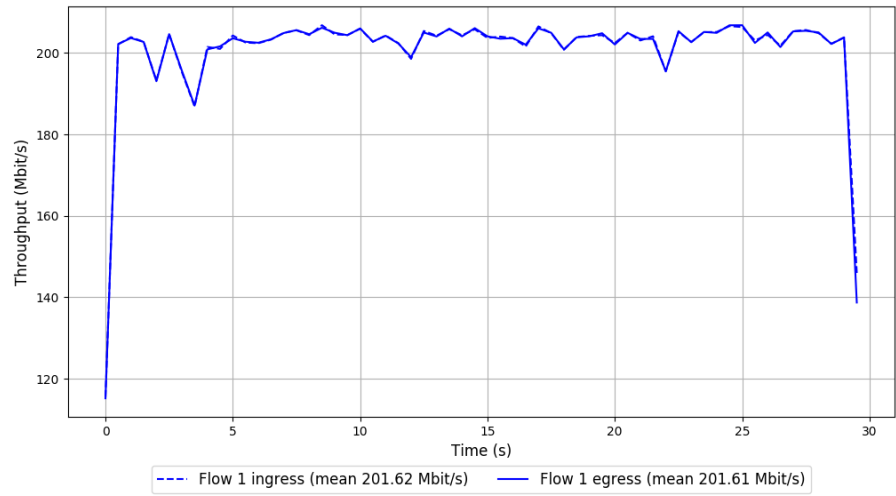
-- Flow 1:

Average throughput: 201.61 Mbit/s

95th percentile per-packet one-way delay: 1.202 ms

Loss rate: 0.06%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-03-13 04:49:46

End at: 2018-03-13 04:50:16

Local clock offset: 1.323 ms

Remote clock offset: -5.62 ms

Below is generated by plot.py at 2018-03-13 11:52:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.79 Mbit/s

95th percentile per-packet one-way delay: 1.138 ms

Loss rate: 0.06%

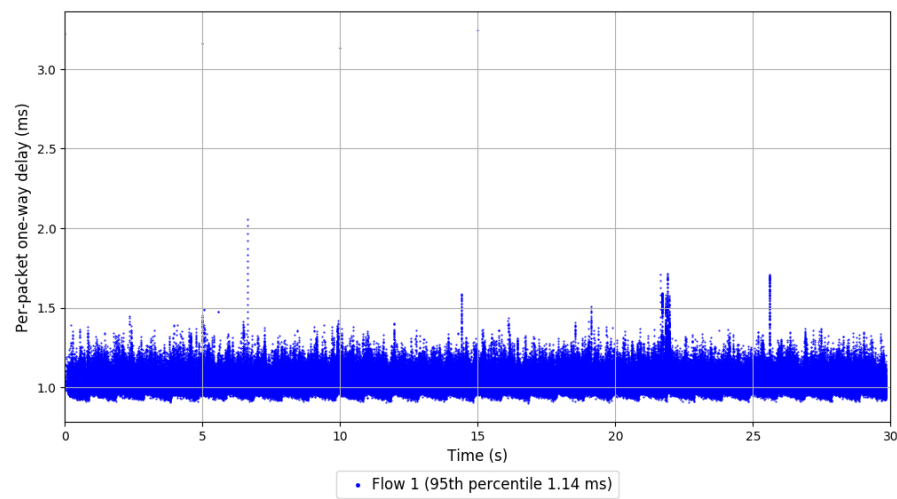
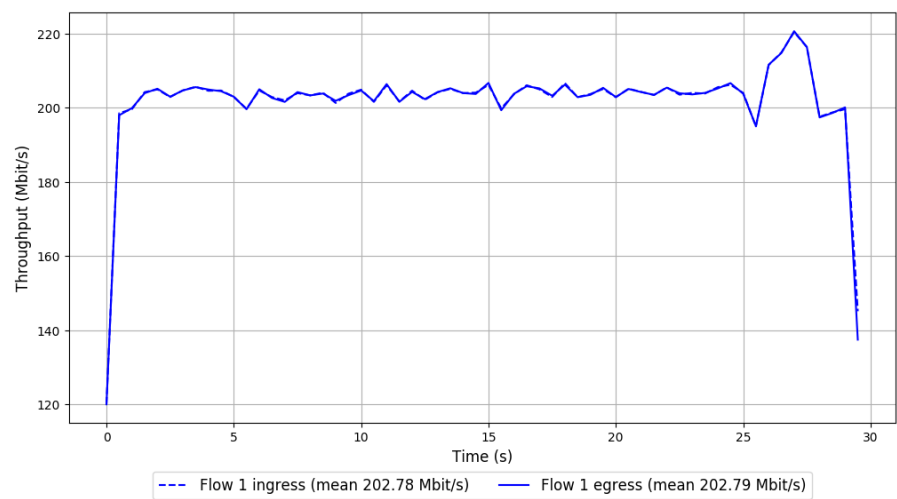
-- Flow 1:

Average throughput: 202.79 Mbit/s

95th percentile per-packet one-way delay: 1.138 ms

Loss rate: 0.06%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-03-13 05:17:07

End at: 2018-03-13 05:17:37

Local clock offset: 1.873 ms

Remote clock offset: -5.316 ms

Below is generated by plot.py at 2018-03-13 11:52:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.17 Mbit/s

95th percentile per-packet one-way delay: 1.128 ms

Loss rate: 0.07%

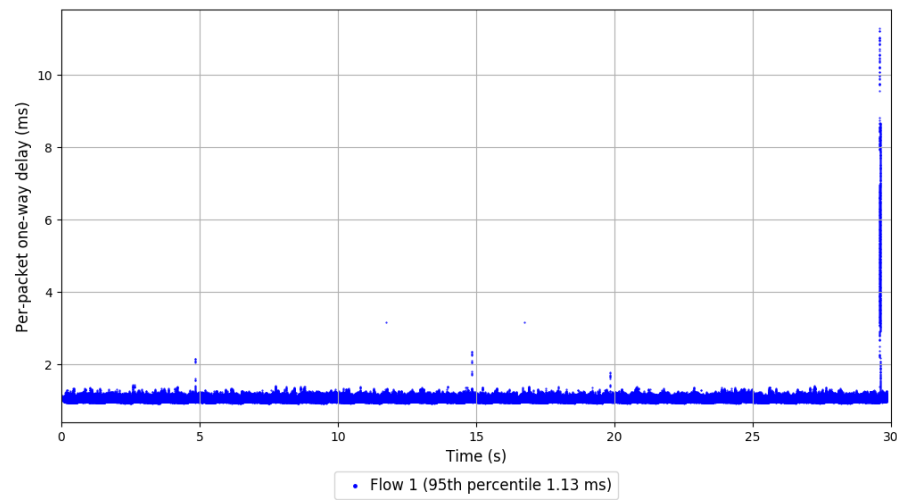
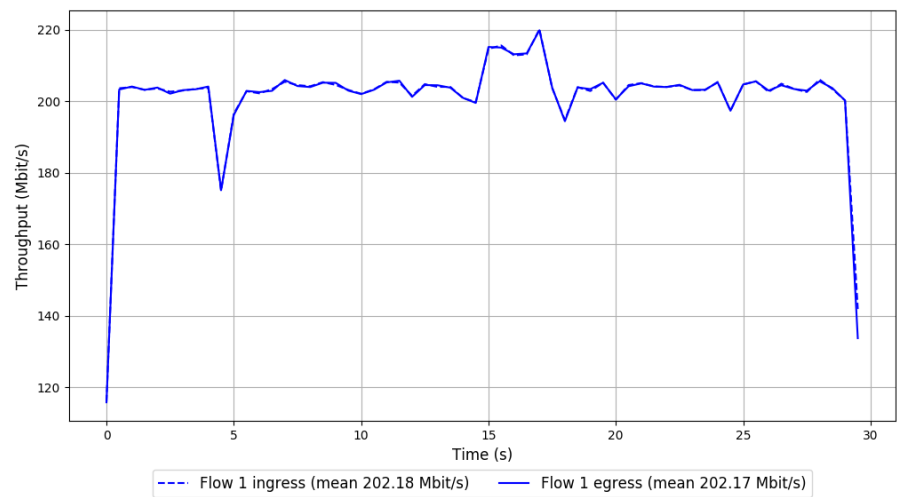
-- Flow 1:

Average throughput: 202.17 Mbit/s

95th percentile per-packet one-way delay: 1.128 ms

Loss rate: 0.07%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-03-13 01:00:34

End at: 2018-03-13 01:01:04

Local clock offset: 0.838 ms

Remote clock offset: -5.18 ms

Below is generated by plot.py at 2018-03-13 11:52:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 431.12 Mbit/s

95th percentile per-packet one-way delay: 6.453 ms

Loss rate: 0.24%

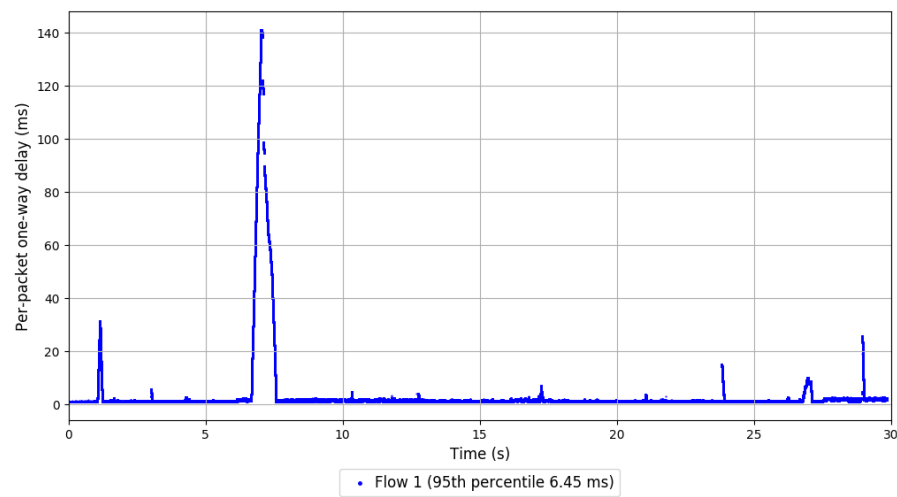
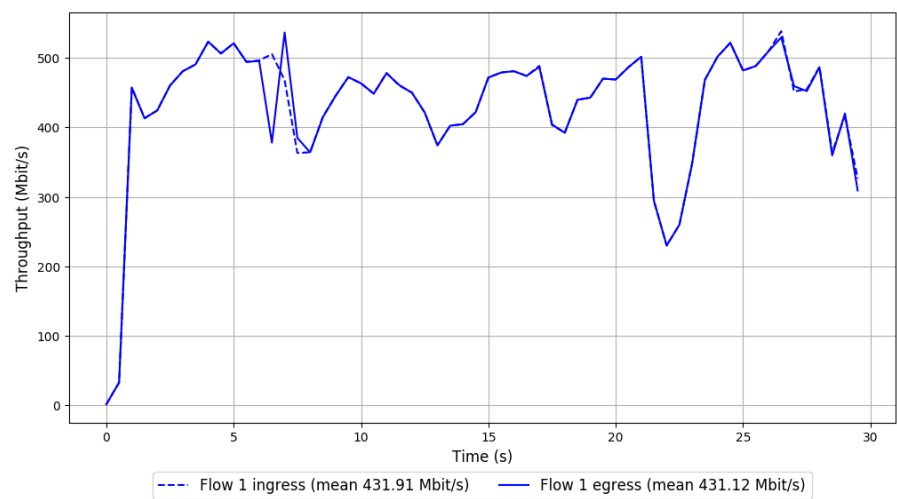
-- Flow 1:

Average throughput: 431.12 Mbit/s

95th percentile per-packet one-way delay: 6.453 ms

Loss rate: 0.24%

Run 1: Report of Vivace-latency — Data Link

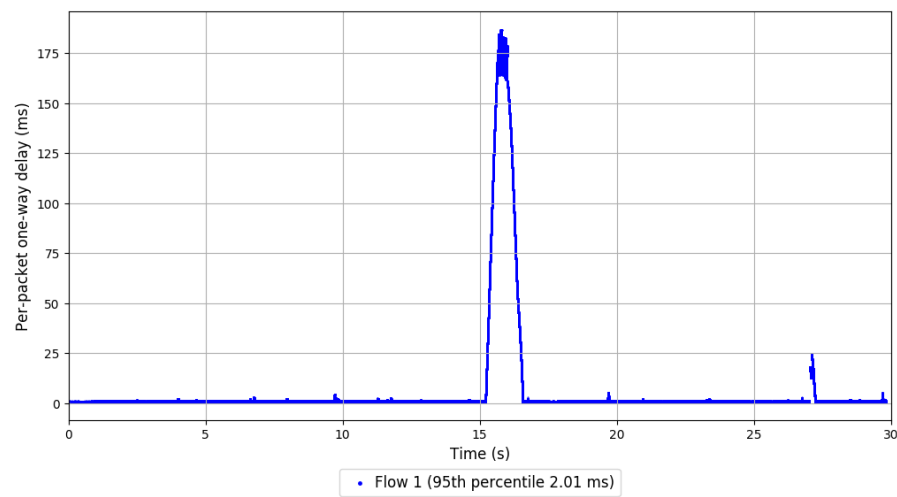
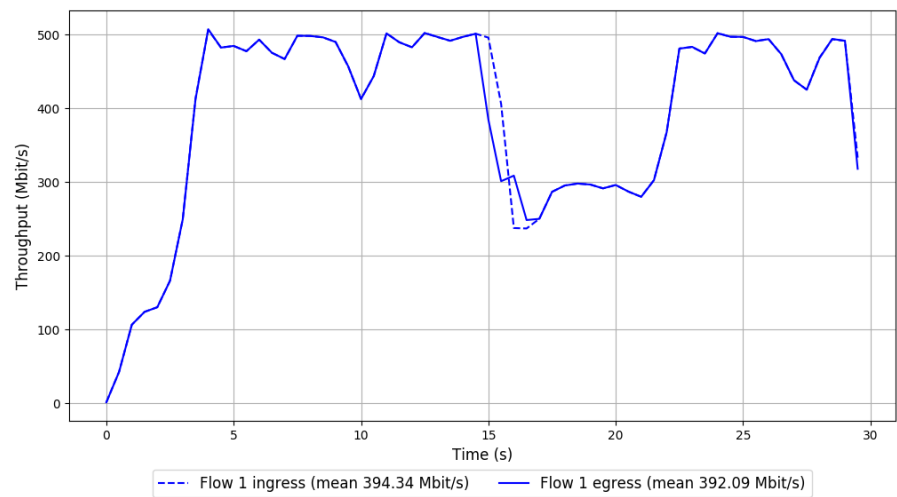


Run 2: Statistics of Vivace-latency

Start at: 2018-03-13 01:28:46
End at: 2018-03-13 01:29:16
Local clock offset: 1.089 ms
Remote clock offset: -6.233 ms

Below is generated by plot.py at 2018-03-13 11:52:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 392.09 Mbit/s
95th percentile per-packet one-way delay: 2.011 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 392.09 Mbit/s
95th percentile per-packet one-way delay: 2.011 ms
Loss rate: 0.64%

Run 2: Report of Vivace-latency — Data Link

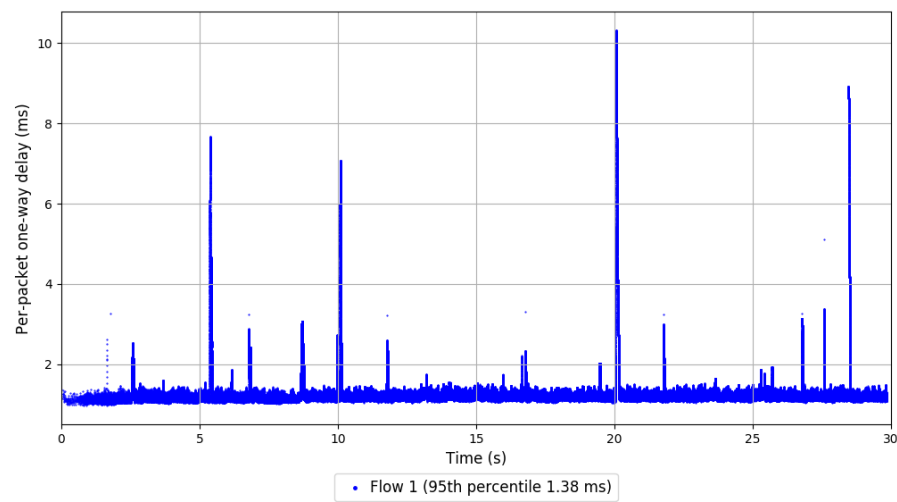
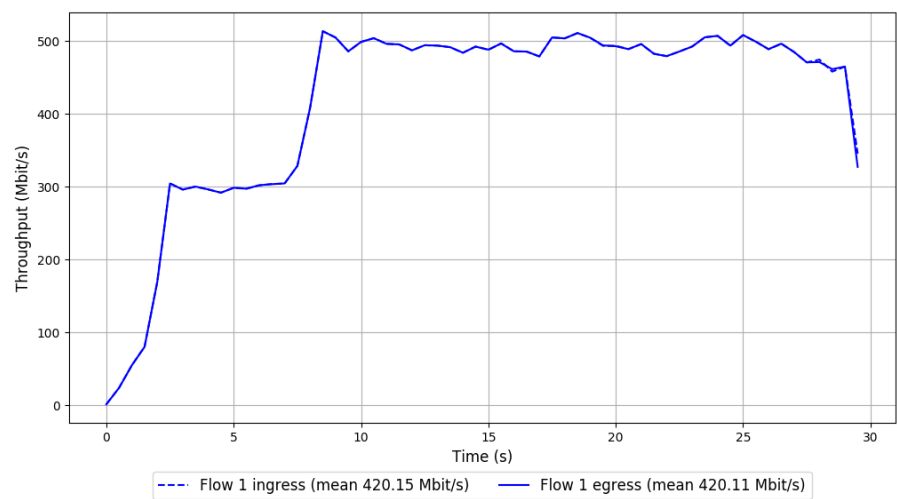


Run 3: Statistics of Vivace-latency

Start at: 2018-03-13 01:56:25
End at: 2018-03-13 01:56:55
Local clock offset: 0.867 ms
Remote clock offset: -5.537 ms

Below is generated by plot.py at 2018-03-13 11:52:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 420.11 Mbit/s
95th percentile per-packet one-way delay: 1.376 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 420.11 Mbit/s
95th percentile per-packet one-way delay: 1.376 ms
Loss rate: 0.08%

Run 3: Report of Vivace-latency — Data Link

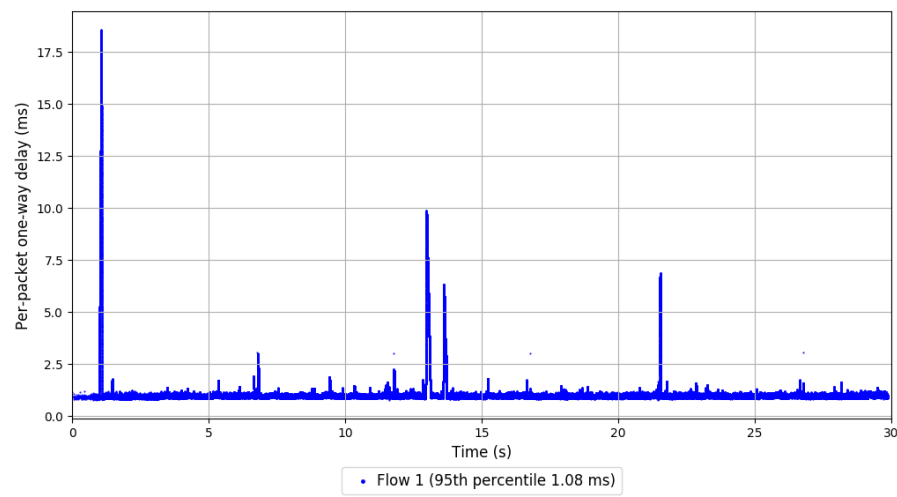
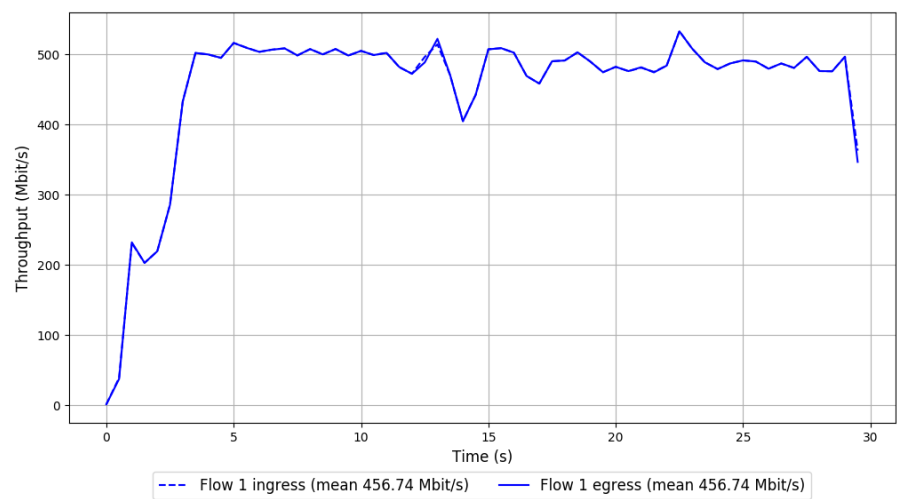


Run 4: Statistics of Vivace-latency

Start at: 2018-03-13 02:24:33
End at: 2018-03-13 02:25:03
Local clock offset: 0.869 ms
Remote clock offset: -5.204 ms

Below is generated by plot.py at 2018-03-13 11:52:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 456.74 Mbit/s
95th percentile per-packet one-way delay: 1.084 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 456.74 Mbit/s
95th percentile per-packet one-way delay: 1.084 ms
Loss rate: 0.06%

Run 4: Report of Vivace-latency — Data Link

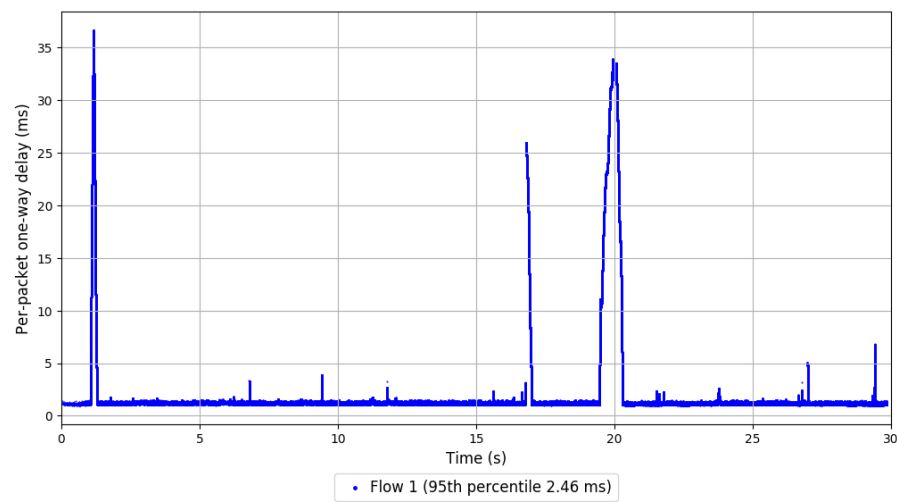
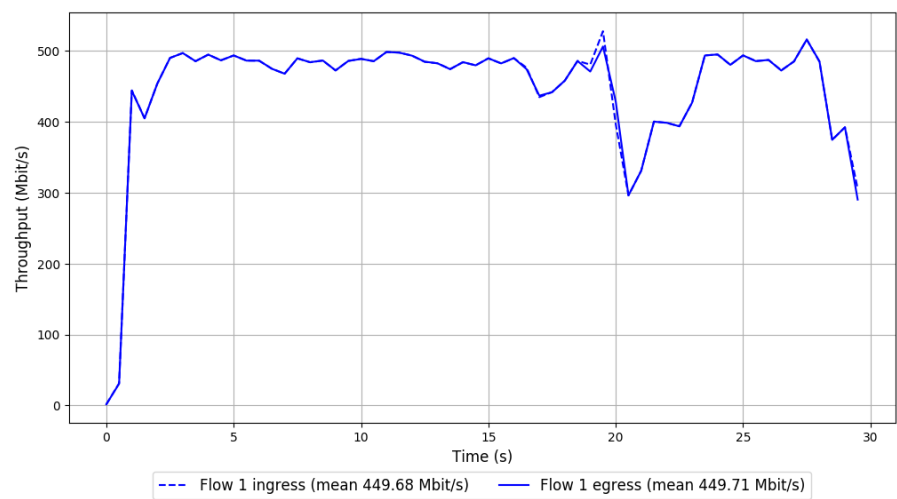


Run 5: Statistics of Vivace-latency

Start at: 2018-03-13 02:52:25
End at: 2018-03-13 02:52:55
Local clock offset: 1.078 ms
Remote clock offset: -5.449 ms

Below is generated by plot.py at 2018-03-13 11:52:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 449.71 Mbit/s
95th percentile per-packet one-way delay: 2.464 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 449.71 Mbit/s
95th percentile per-packet one-way delay: 2.464 ms
Loss rate: 0.06%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

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

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

Local clock offset: 1.091 ms

Remote clock offset: -6.56 ms

Below is generated by plot.py at 2018-03-13 11:52:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 351.43 Mbit/s

95th percentile per-packet one-way delay: 130.915 ms

Loss rate: 1.92%

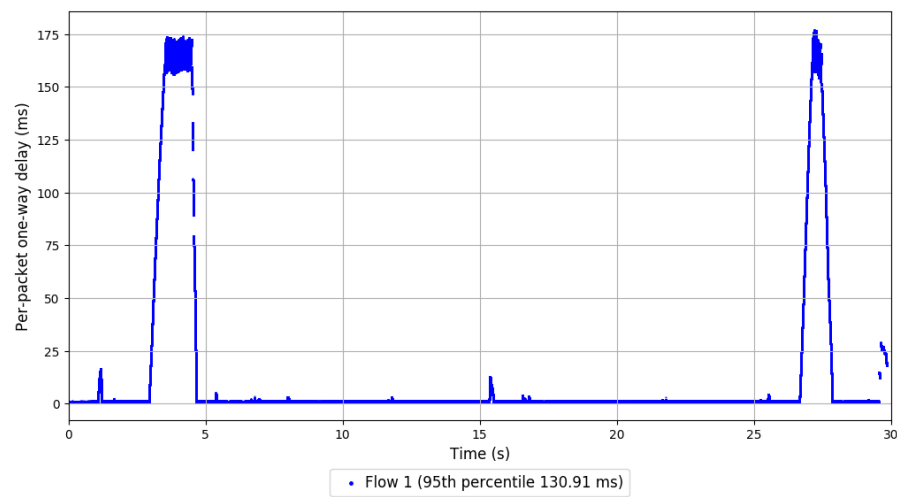
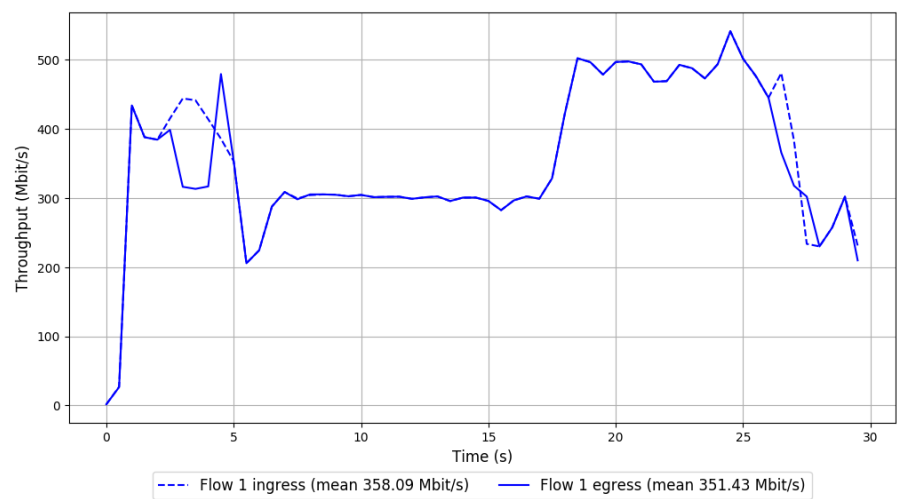
-- Flow 1:

Average throughput: 351.43 Mbit/s

95th percentile per-packet one-way delay: 130.915 ms

Loss rate: 1.92%

Run 6: Report of Vivace-latency — Data Link

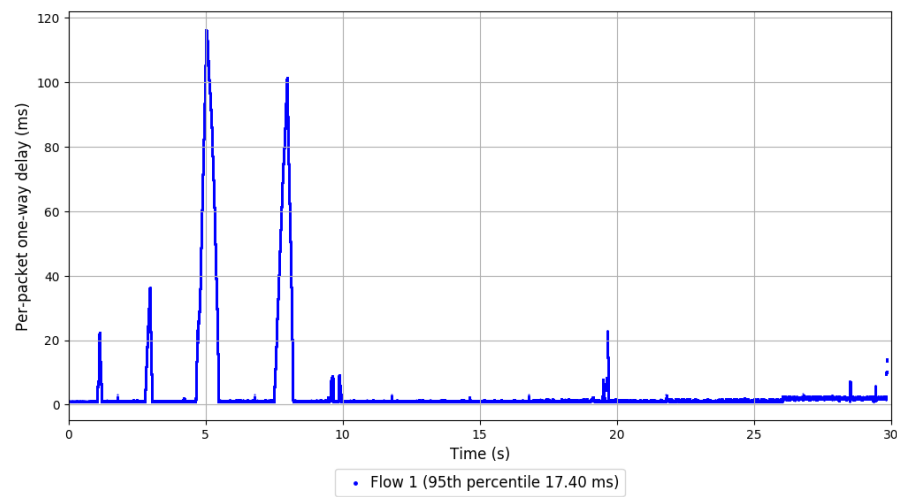
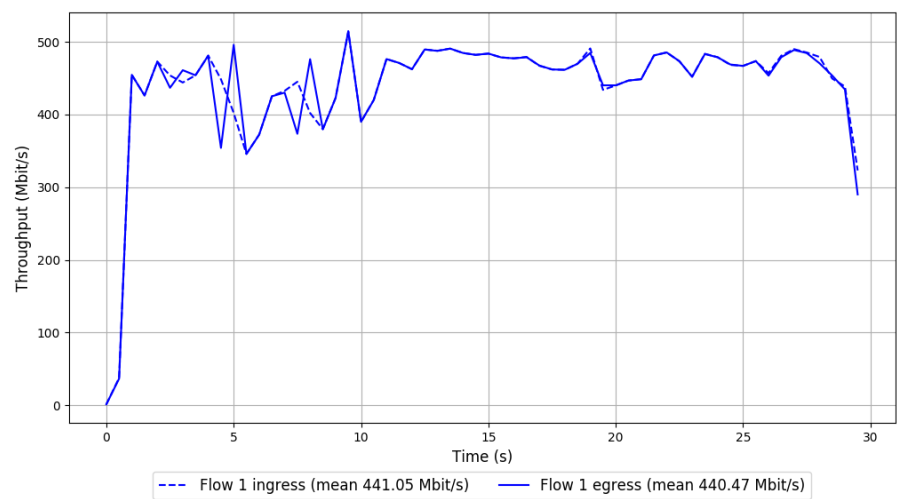


Run 7: Statistics of Vivace-latency

Start at: 2018-03-13 03:47:44
End at: 2018-03-13 03:48:14
Local clock offset: 1.022 ms
Remote clock offset: -6.115 ms

Below is generated by plot.py at 2018-03-13 11:55:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 440.47 Mbit/s
95th percentile per-packet one-way delay: 17.403 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 440.47 Mbit/s
95th percentile per-packet one-way delay: 17.403 ms
Loss rate: 0.19%

Run 7: Report of Vivace-latency — Data Link

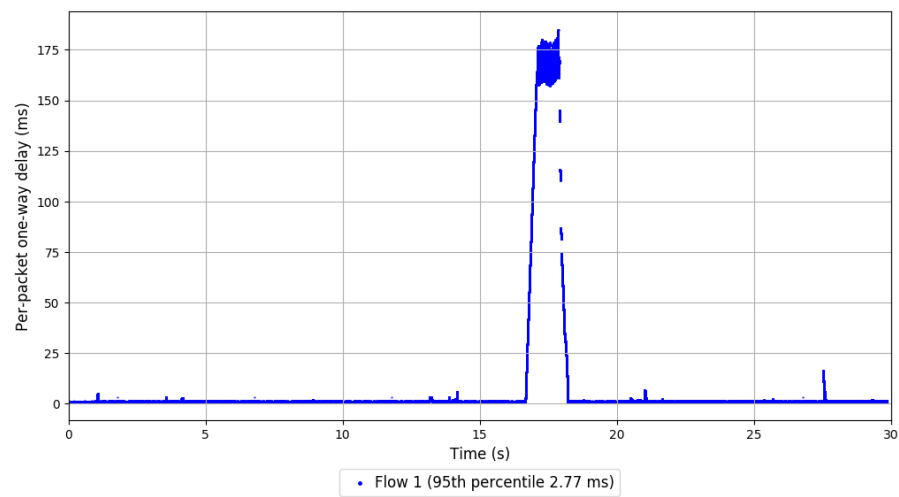
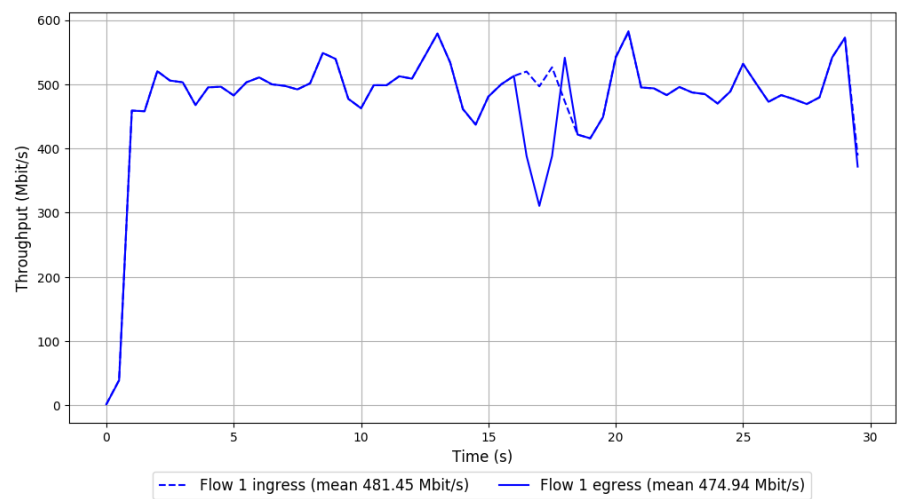


Run 8: Statistics of Vivace-latency

Start at: 2018-03-13 04:15:39
End at: 2018-03-13 04:16:09
Local clock offset: 1.272 ms
Remote clock offset: -5.738 ms

Below is generated by plot.py at 2018-03-13 11:55:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 474.94 Mbit/s
95th percentile per-packet one-way delay: 2.772 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 474.94 Mbit/s
95th percentile per-packet one-way delay: 2.772 ms
Loss rate: 1.41%

Run 8: Report of Vivace-latency — Data Link

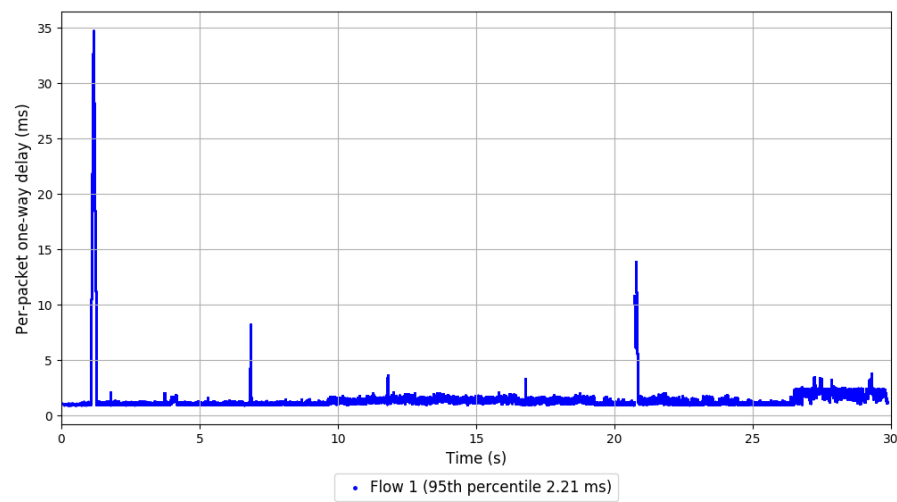
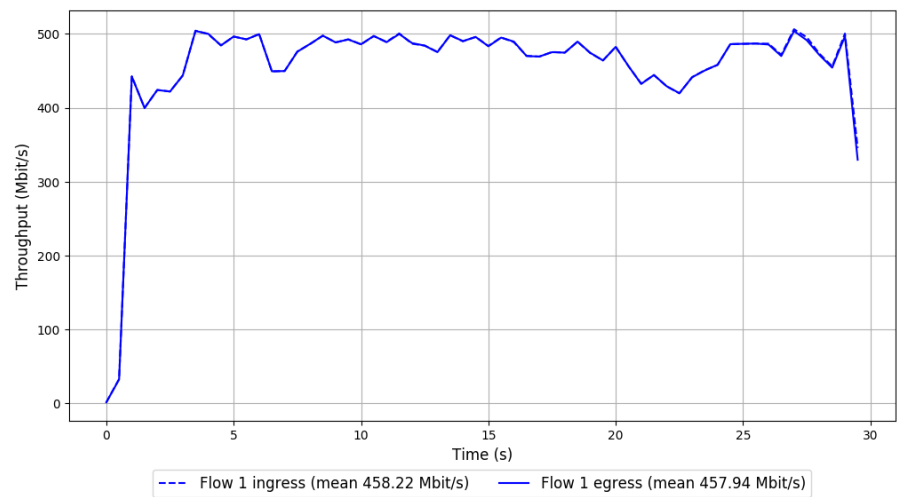


Run 9: Statistics of Vivace-latency

Start at: 2018-03-13 04:43:35
End at: 2018-03-13 04:44:06
Local clock offset: 1.302 ms
Remote clock offset: -5.639 ms

Below is generated by plot.py at 2018-03-13 11:56:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 457.94 Mbit/s
95th percentile per-packet one-way delay: 2.210 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 457.94 Mbit/s
95th percentile per-packet one-way delay: 2.210 ms
Loss rate: 0.12%

Run 9: Report of Vivace-latency — Data Link

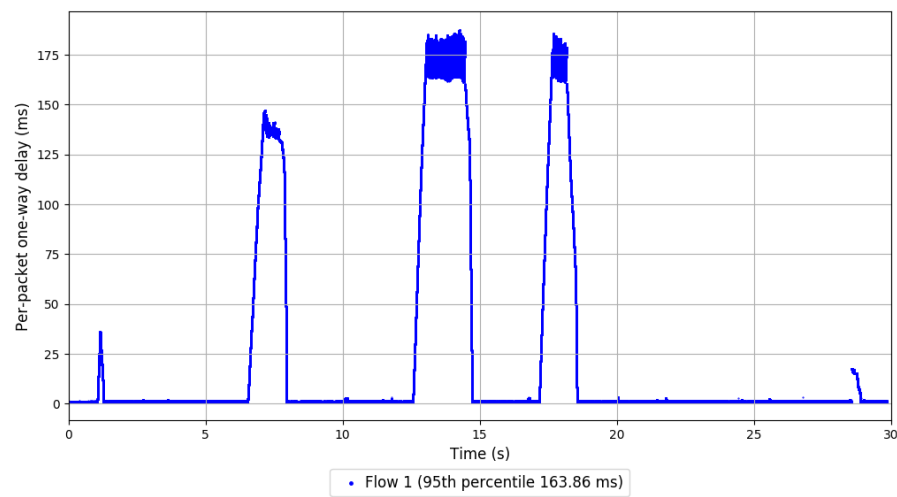
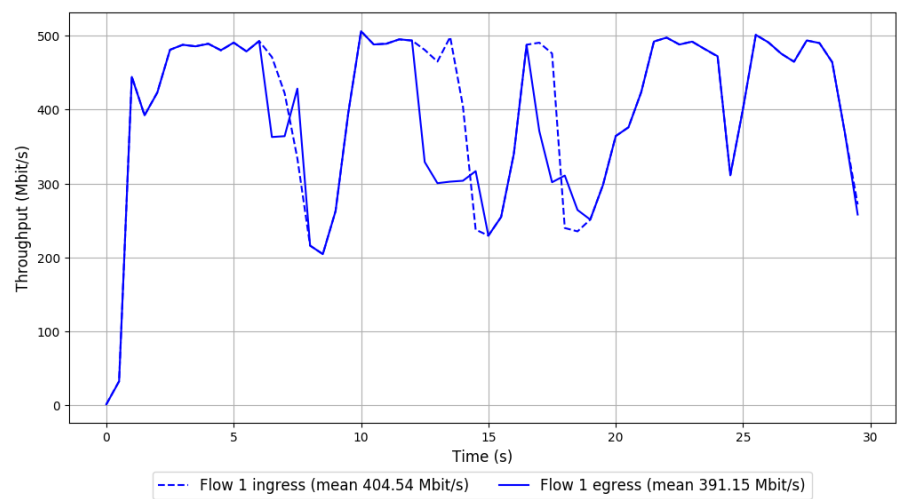


Run 10: Statistics of Vivace-latency

Start at: 2018-03-13 05:11:24
End at: 2018-03-13 05:11:54
Local clock offset: 1.798 ms
Remote clock offset: -5.474 ms

Below is generated by plot.py at 2018-03-13 11:56:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 391.15 Mbit/s
95th percentile per-packet one-way delay: 163.856 ms
Loss rate: 3.38%
-- Flow 1:
Average throughput: 391.15 Mbit/s
95th percentile per-packet one-way delay: 163.856 ms
Loss rate: 3.38%

Run 10: Report of Vivace-latency — Data Link

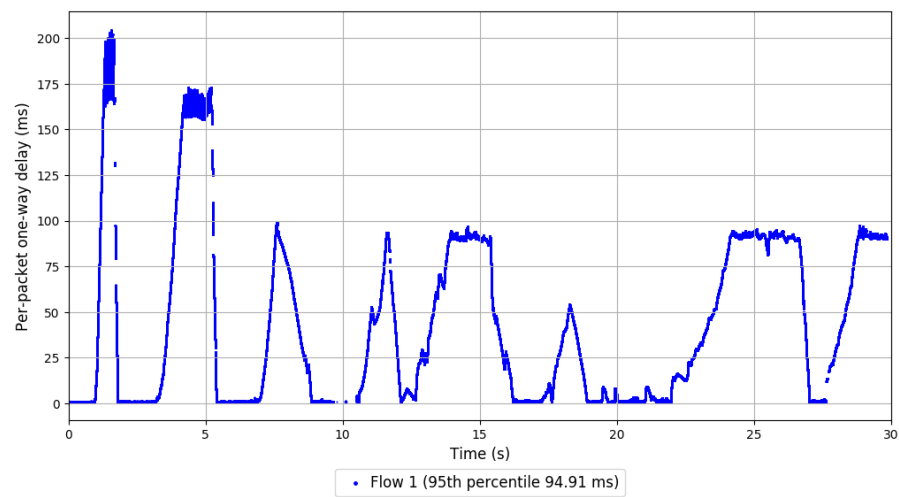
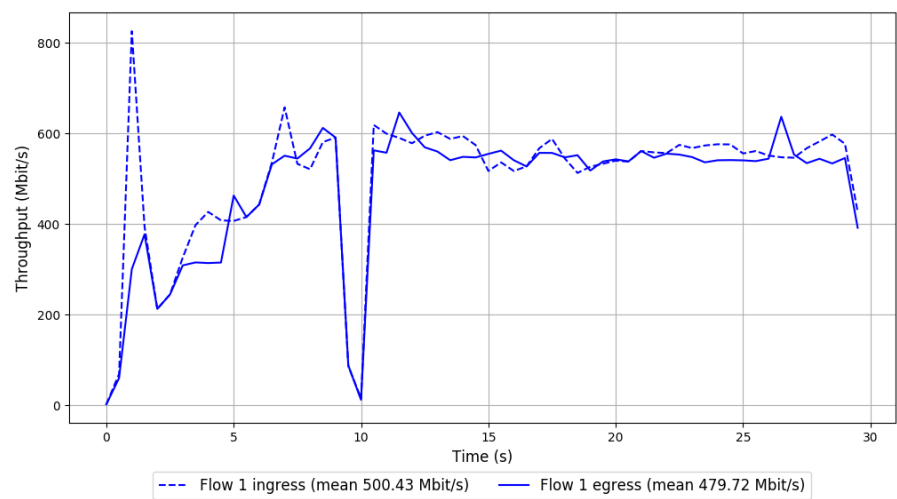


Run 1: Statistics of Vivace-loss

Start at: 2018-03-13 00:55:31
End at: 2018-03-13 00:56:01
Local clock offset: 0.894 ms
Remote clock offset: -5.198 ms

Below is generated by plot.py at 2018-03-13 11:58:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 479.72 Mbit/s
95th percentile per-packet one-way delay: 94.909 ms
Loss rate: 4.20%
-- Flow 1:
Average throughput: 479.72 Mbit/s
95th percentile per-packet one-way delay: 94.909 ms
Loss rate: 4.20%

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-03-13 01:23:40

End at: 2018-03-13 01:24:10

Local clock offset: 1.079 ms

Remote clock offset: -6.104 ms

Below is generated by plot.py at 2018-03-13 11:58:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 472.34 Mbit/s

95th percentile per-packet one-way delay: 156.944 ms

Loss rate: 3.71%

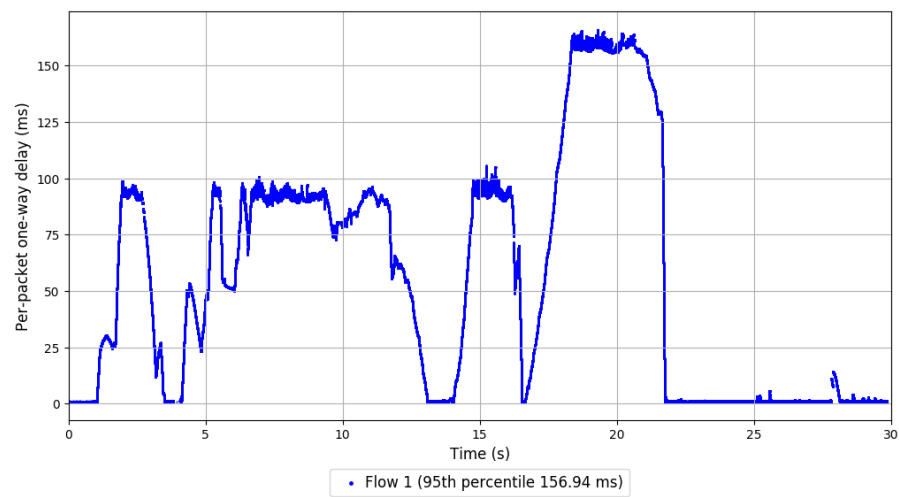
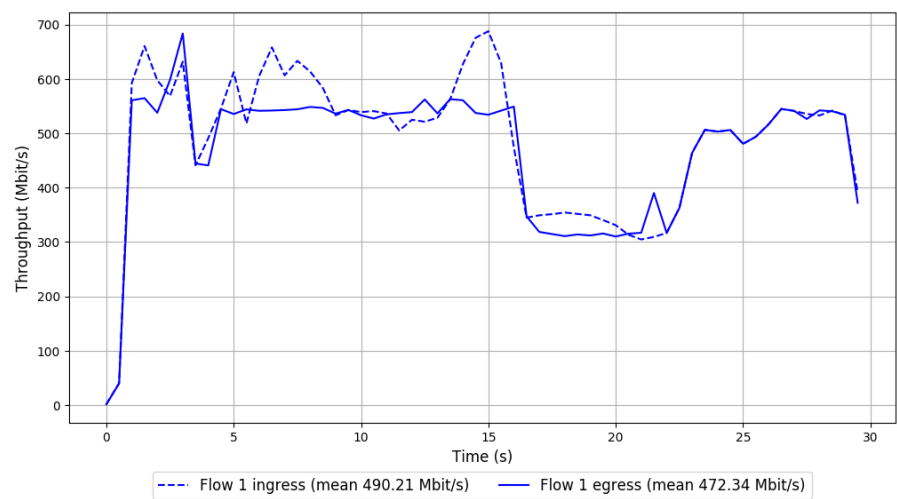
-- Flow 1:

Average throughput: 472.34 Mbit/s

95th percentile per-packet one-way delay: 156.944 ms

Loss rate: 3.71%

Run 2: Report of Vivace-loss — Data Link

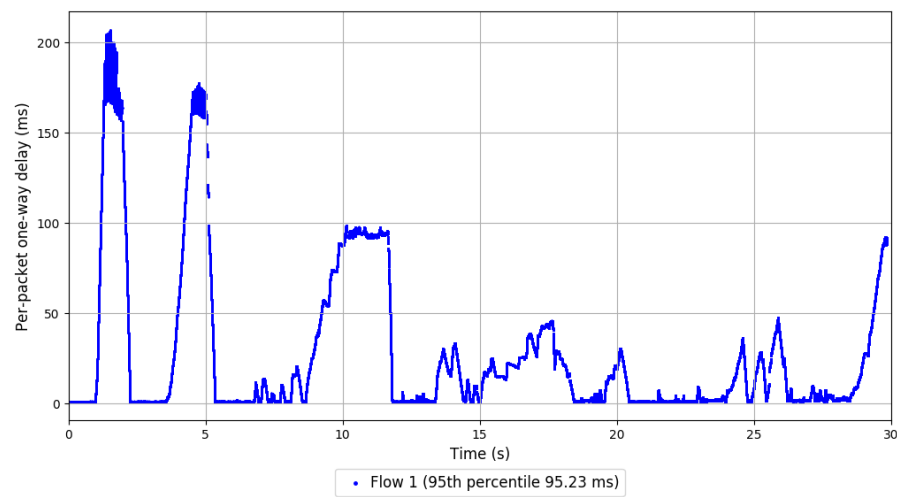
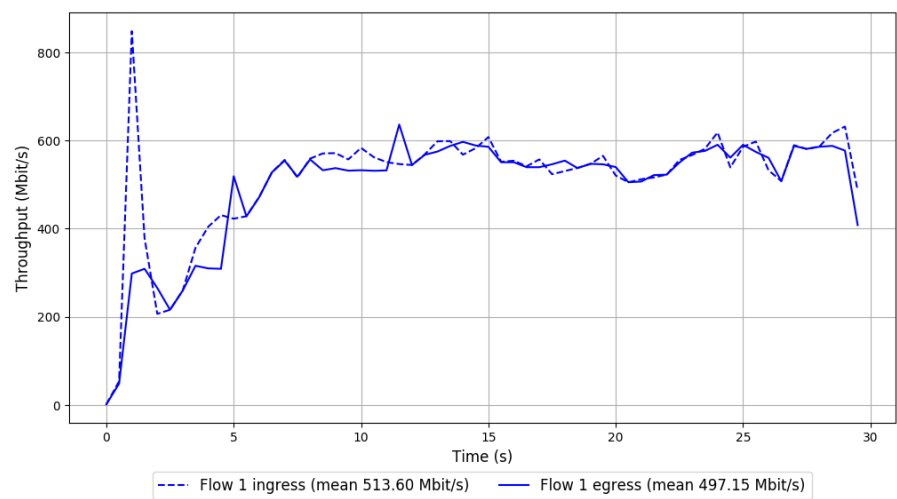


Run 3: Statistics of Vivace-loss

Start at: 2018-03-13 01:51:17
End at: 2018-03-13 01:51:48
Local clock offset: 0.879 ms
Remote clock offset: -5.761 ms

Below is generated by plot.py at 2018-03-13 11:59:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 497.15 Mbit/s
95th percentile per-packet one-way delay: 95.226 ms
Loss rate: 3.27%
-- Flow 1:
Average throughput: 497.15 Mbit/s
95th percentile per-packet one-way delay: 95.226 ms
Loss rate: 3.27%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-03-13 02:19:27

End at: 2018-03-13 02:19:57

Local clock offset: 0.834 ms

Remote clock offset: -5.235 ms

Below is generated by plot.py at 2018-03-13 12:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 526.56 Mbit/s

95th percentile per-packet one-way delay: 92.972 ms

Loss rate: 4.10%

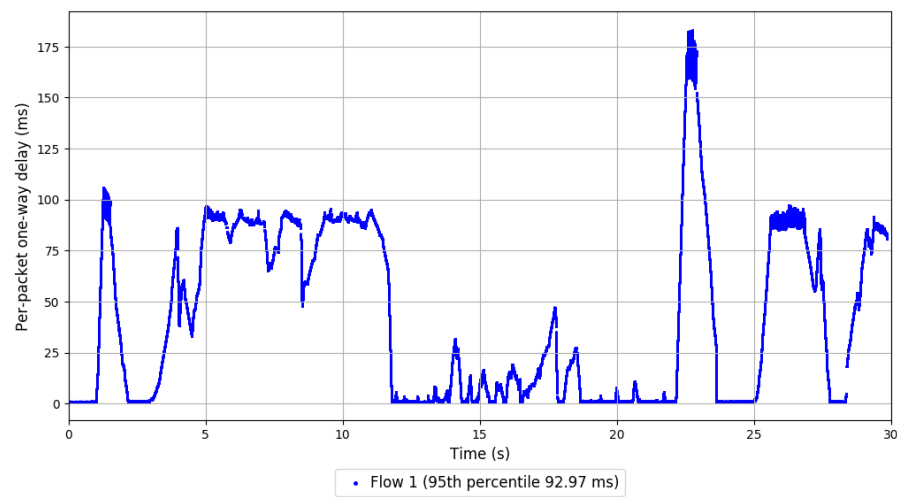
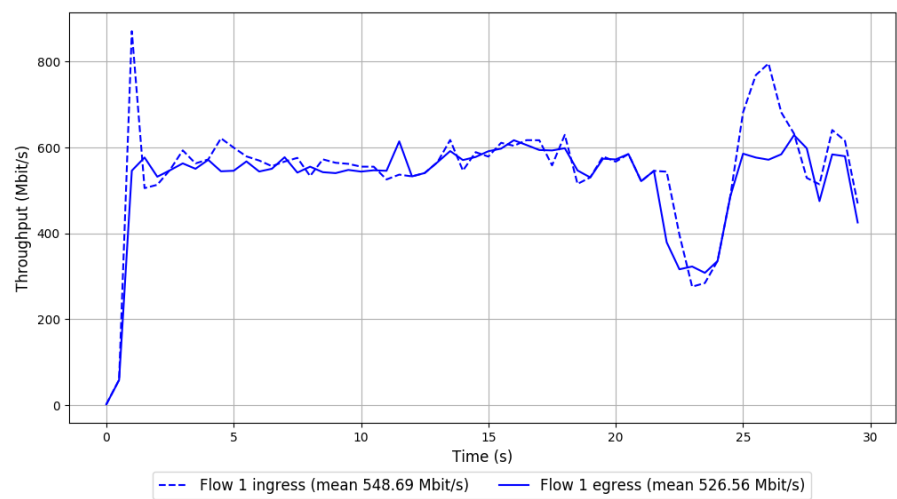
-- Flow 1:

Average throughput: 526.56 Mbit/s

95th percentile per-packet one-way delay: 92.972 ms

Loss rate: 4.10%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-03-13 02:47:20

End at: 2018-03-13 02:47:50

Local clock offset: 1.05 ms

Remote clock offset: -5.262 ms

Below is generated by plot.py at 2018-03-13 12:02:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 506.61 Mbit/s

95th percentile per-packet one-way delay: 97.220 ms

Loss rate: 3.07%

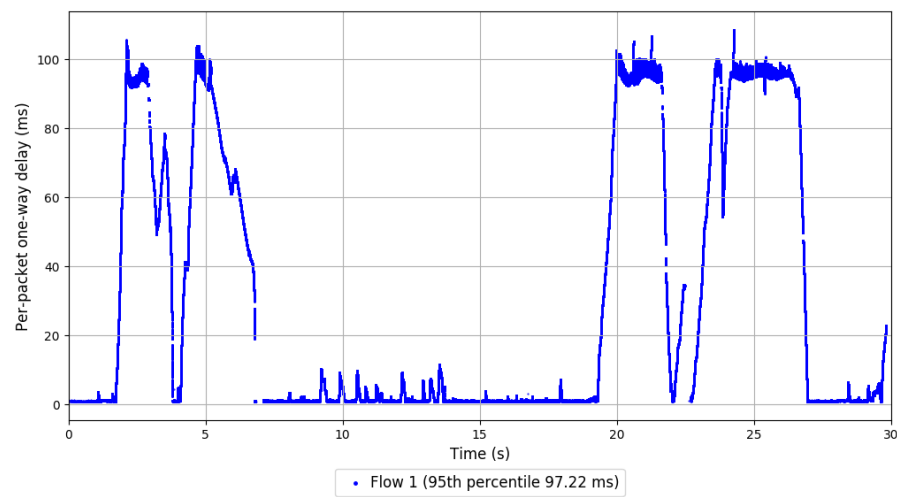
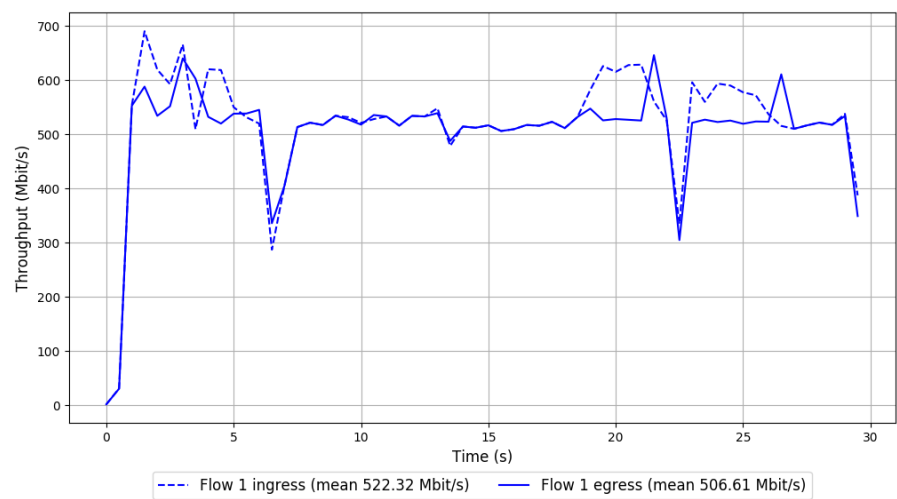
-- Flow 1:

Average throughput: 506.61 Mbit/s

95th percentile per-packet one-way delay: 97.220 ms

Loss rate: 3.07%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-03-13 03:15:05

End at: 2018-03-13 03:15:35

Local clock offset: 1.096 ms

Remote clock offset: -6.493 ms

Below is generated by plot.py at 2018-03-13 12:03:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 511.44 Mbit/s

95th percentile per-packet one-way delay: 90.353 ms

Loss rate: 0.86%

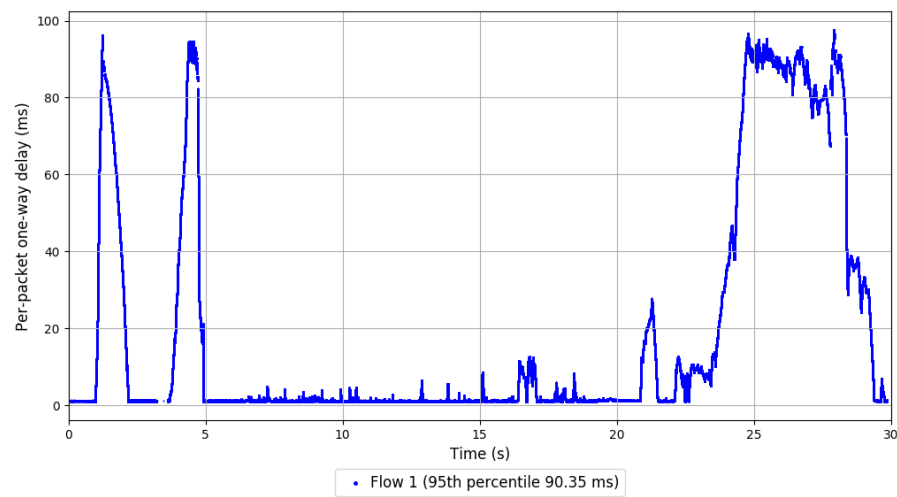
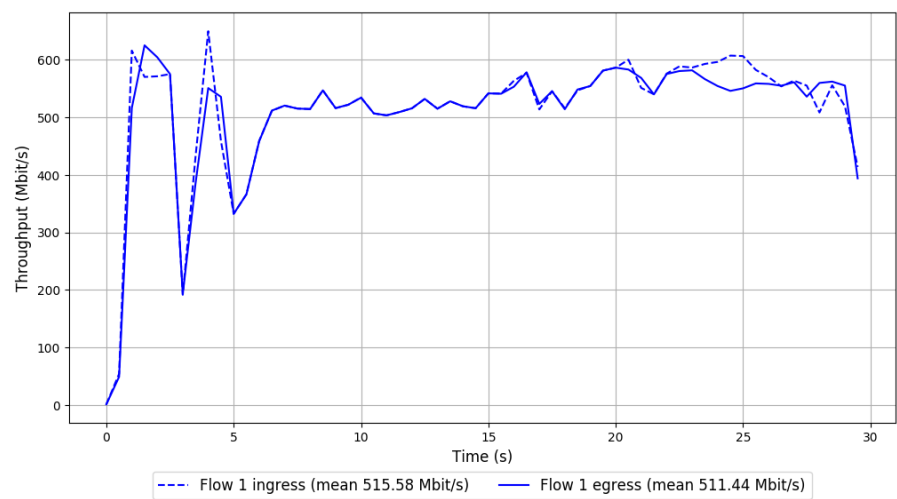
-- Flow 1:

Average throughput: 511.44 Mbit/s

95th percentile per-packet one-way delay: 90.353 ms

Loss rate: 0.86%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-03-13 03:42:43

End at: 2018-03-13 03:43:13

Local clock offset: 1.106 ms

Remote clock offset: -6.151 ms

Below is generated by plot.py at 2018-03-13 12:03:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 487.89 Mbit/s

95th percentile per-packet one-way delay: 100.914 ms

Loss rate: 6.49%

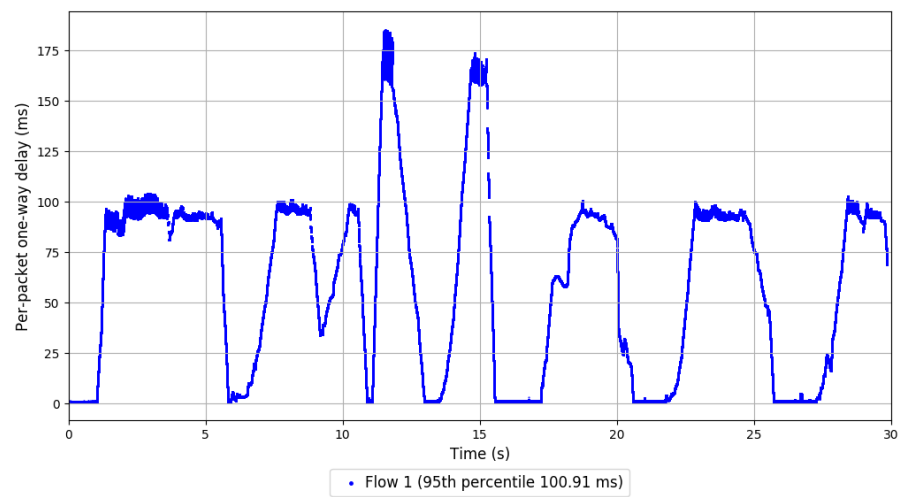
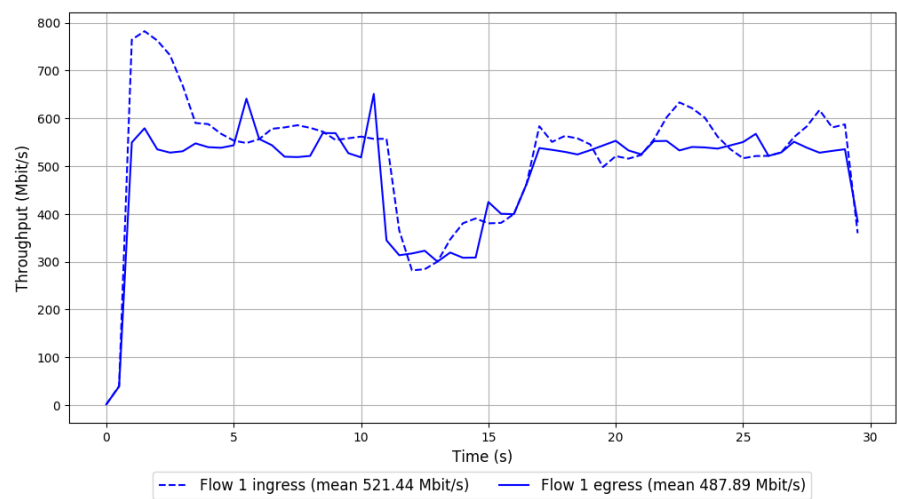
-- Flow 1:

Average throughput: 487.89 Mbit/s

95th percentile per-packet one-way delay: 100.914 ms

Loss rate: 6.49%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-03-13 04:10:37

End at: 2018-03-13 04:11:07

Local clock offset: 1.231 ms

Remote clock offset: -5.776 ms

Below is generated by plot.py at 2018-03-13 12:04:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 488.05 Mbit/s

95th percentile per-packet one-way delay: 100.604 ms

Loss rate: 5.07%

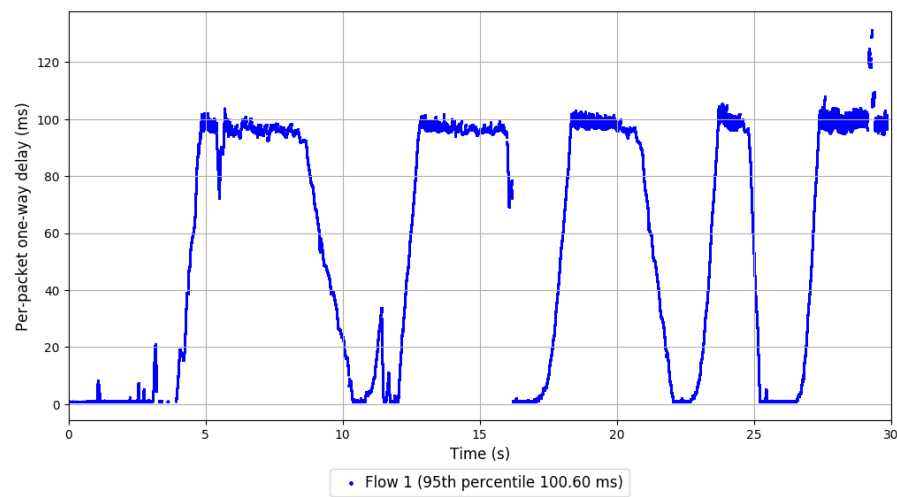
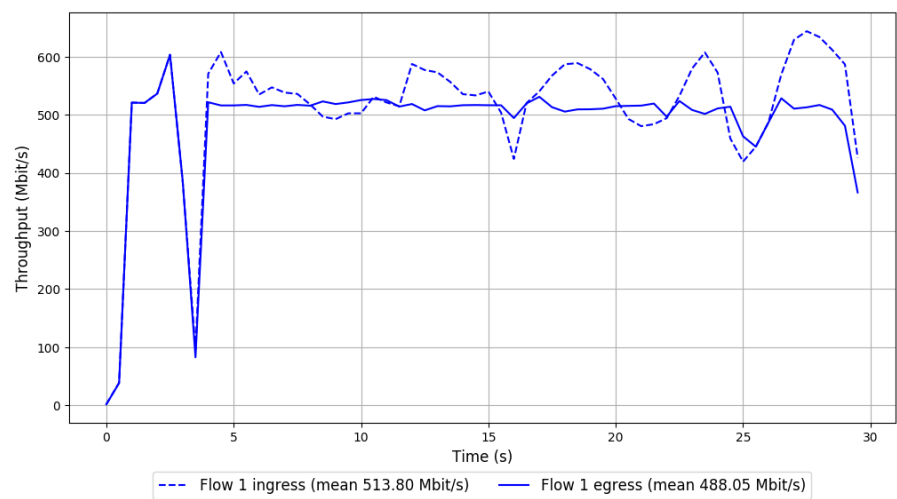
-- Flow 1:

Average throughput: 488.05 Mbit/s

95th percentile per-packet one-way delay: 100.604 ms

Loss rate: 5.07%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-03-13 04:38:34

End at: 2018-03-13 04:39:04

Local clock offset: 1.308 ms

Remote clock offset: -5.706 ms

Below is generated by plot.py at 2018-03-13 12:05:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 458.20 Mbit/s

95th percentile per-packet one-way delay: 164.281 ms

Loss rate: 6.94%

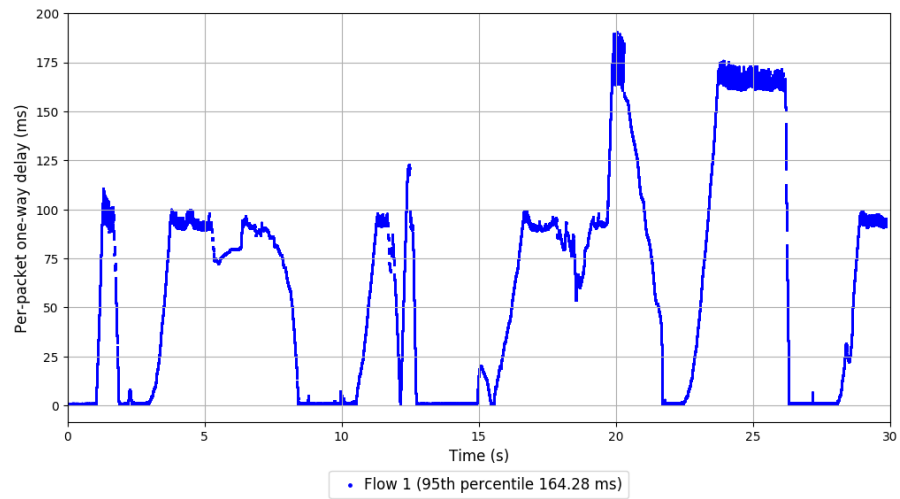
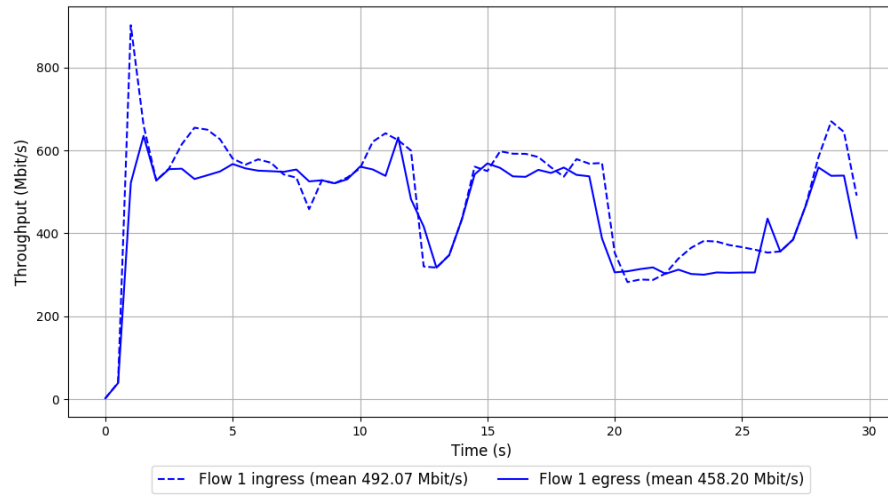
-- Flow 1:

Average throughput: 458.20 Mbit/s

95th percentile per-packet one-way delay: 164.281 ms

Loss rate: 6.94%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-03-13 05:06:26

End at: 2018-03-13 05:06:56

Local clock offset: 1.67 ms

Remote clock offset: -5.569 ms

Below is generated by plot.py at 2018-03-13 12:05:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 465.82 Mbit/s

95th percentile per-packet one-way delay: 129.379 ms

Loss rate: 3.35%

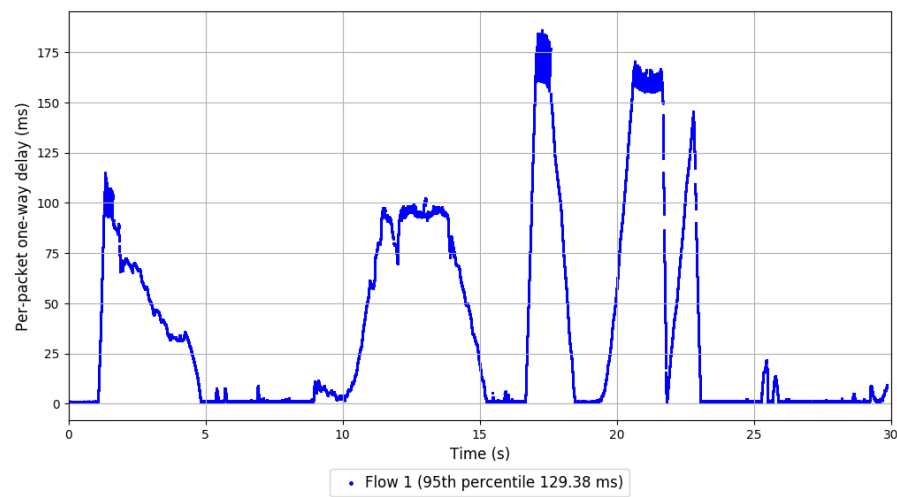
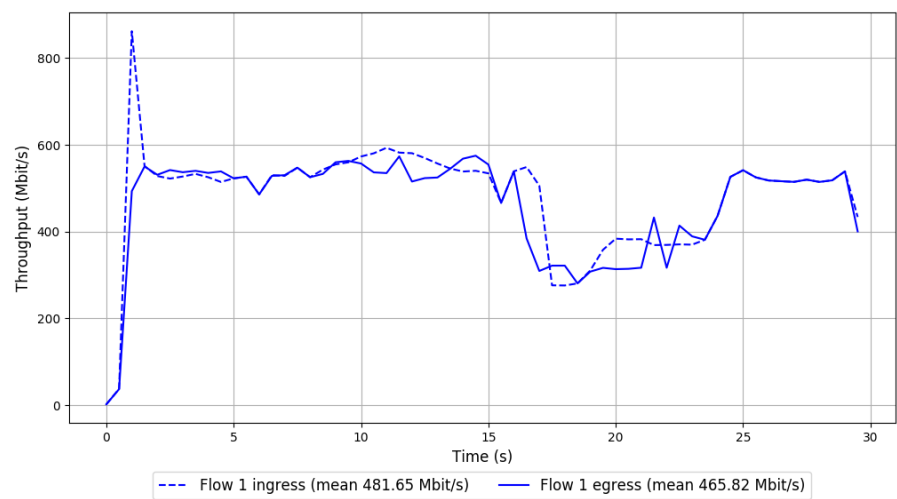
-- Flow 1:

Average throughput: 465.82 Mbit/s

95th percentile per-packet one-way delay: 129.379 ms

Loss rate: 3.35%

Run 10: Report of Vivace-loss — Data Link



Run 1: Statistics of Vivace-LTE

Start at: 2018-03-13 01:09:34

End at: 2018-03-13 01:10:04

Local clock offset: 1.02 ms

Remote clock offset: -5.139 ms

Below is generated by plot.py at 2018-03-13 12:06:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 427.66 Mbit/s

95th percentile per-packet one-way delay: 11.661 ms

Loss rate: 0.55%

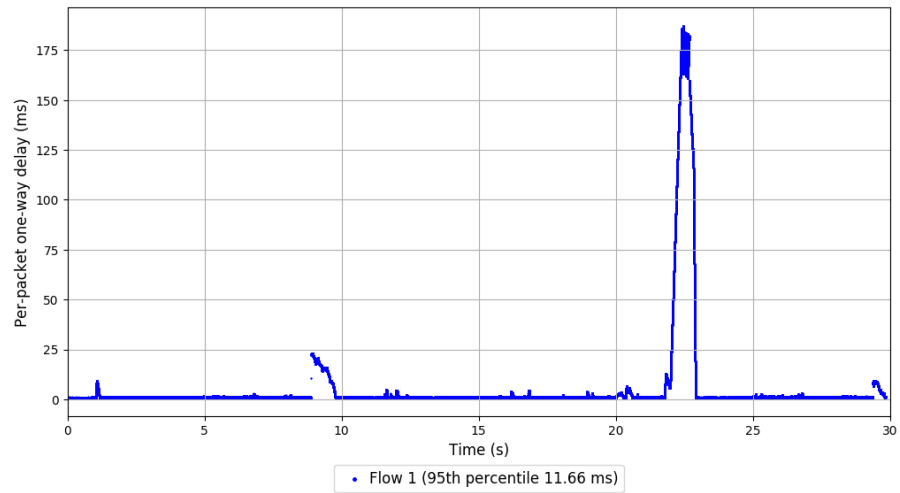
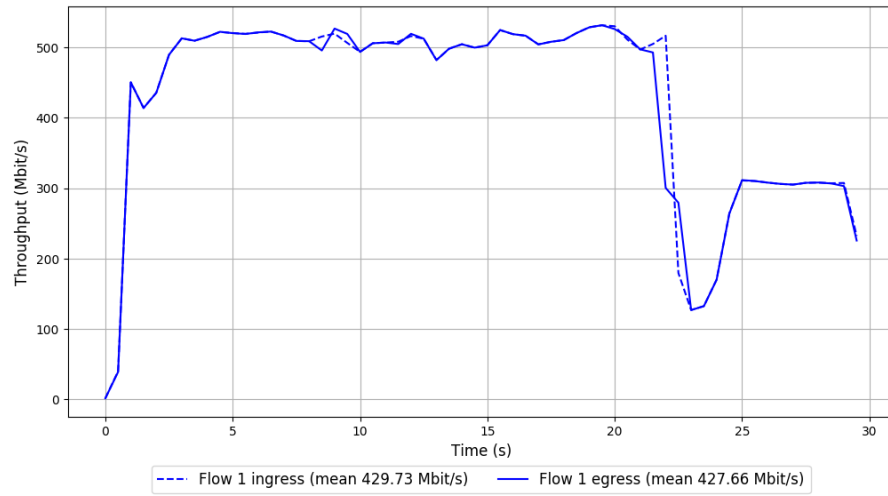
-- Flow 1:

Average throughput: 427.66 Mbit/s

95th percentile per-packet one-way delay: 11.661 ms

Loss rate: 0.55%

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-03-13 01:37:27

End at: 2018-03-13 01:37:57

Local clock offset: 1.017 ms

Remote clock offset: -6.382 ms

Below is generated by plot.py at 2018-03-13 12:07:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 494.34 Mbit/s

95th percentile per-packet one-way delay: 5.864 ms

Loss rate: 0.56%

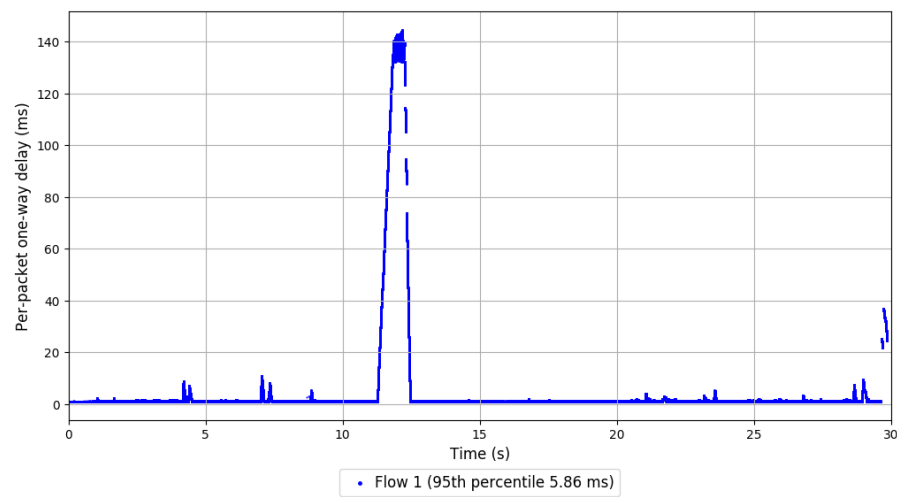
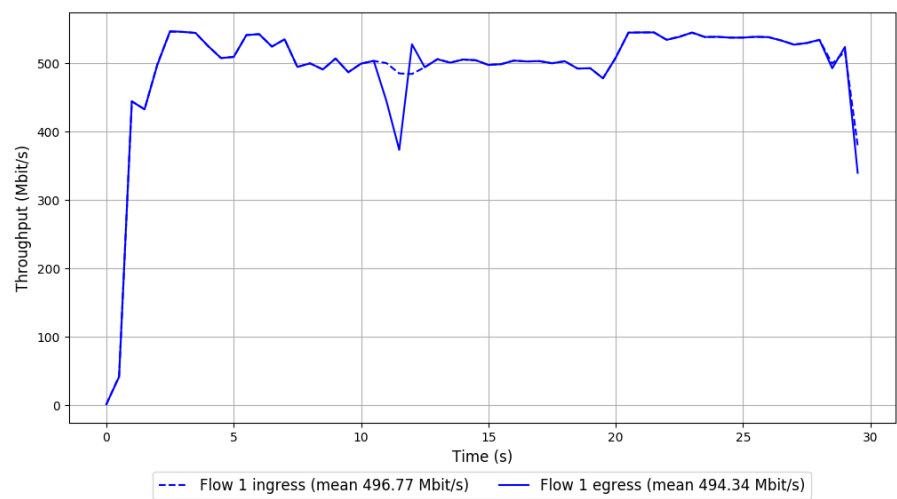
-- Flow 1:

Average throughput: 494.34 Mbit/s

95th percentile per-packet one-way delay: 5.864 ms

Loss rate: 0.56%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-03-13 02:05:02

End at: 2018-03-13 02:05:32

Local clock offset: 0.703 ms

Remote clock offset: -5.273 ms

Below is generated by plot.py at 2018-03-13 12:10:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 486.03 Mbit/s

95th percentile per-packet one-way delay: 1.496 ms

Loss rate: 0.07%

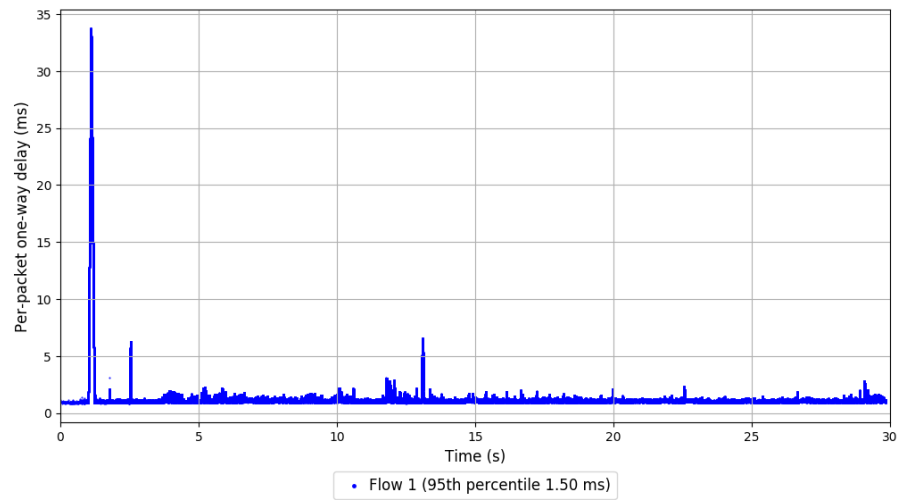
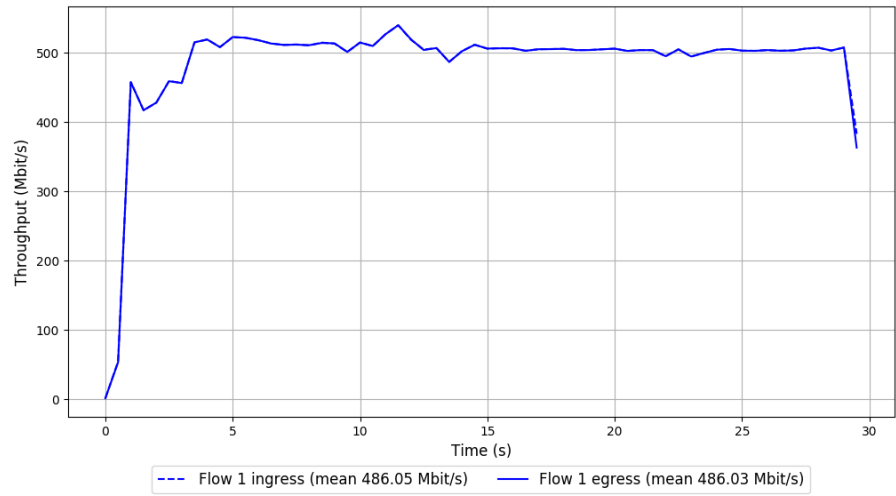
-- Flow 1:

Average throughput: 486.03 Mbit/s

95th percentile per-packet one-way delay: 1.496 ms

Loss rate: 0.07%

Run 3: Report of Vivace-LTE — Data Link

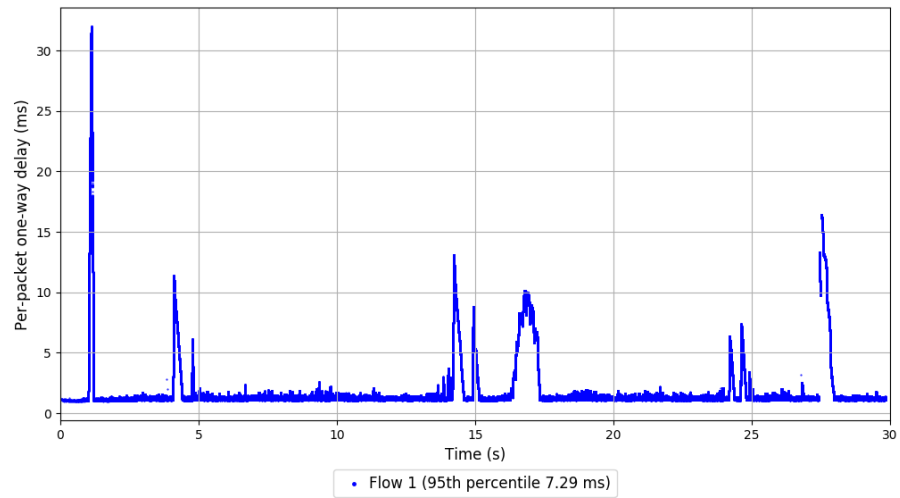
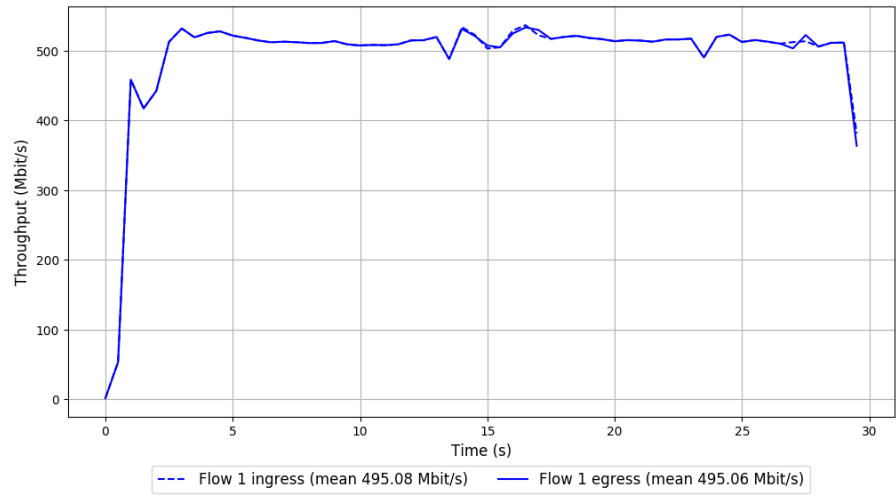


Run 4: Statistics of Vivace-LTE

Start at: 2018-03-13 02:33:11
End at: 2018-03-13 02:33:41
Local clock offset: 1.004 ms
Remote clock offset: -5.348 ms

Below is generated by plot.py at 2018-03-13 12:11:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 495.06 Mbit/s
95th percentile per-packet one-way delay: 7.287 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 495.06 Mbit/s
95th percentile per-packet one-way delay: 7.287 ms
Loss rate: 0.07%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-03-13 03:01:04

End at: 2018-03-13 03:01:34

Local clock offset: 1.1 ms

Remote clock offset: -6.09 ms

Below is generated by plot.py at 2018-03-13 12:11:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 430.26 Mbit/s

95th percentile per-packet one-way delay: 4.653 ms

Loss rate: 0.66%

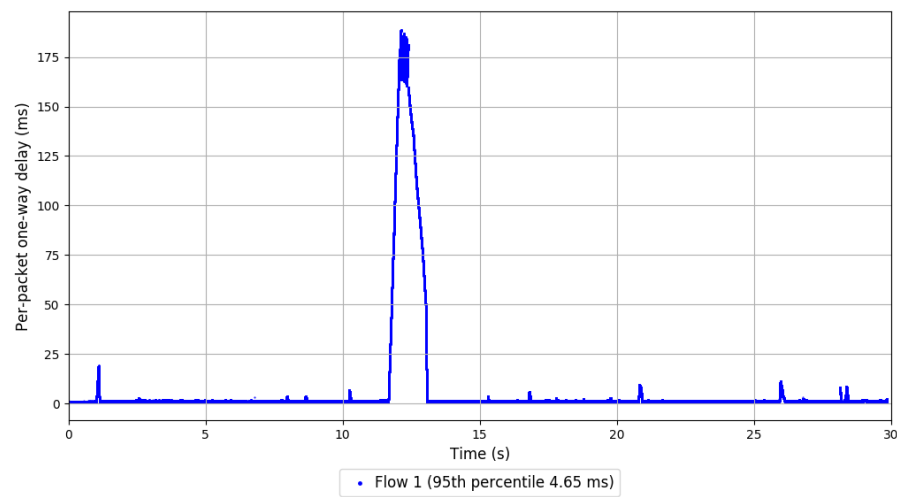
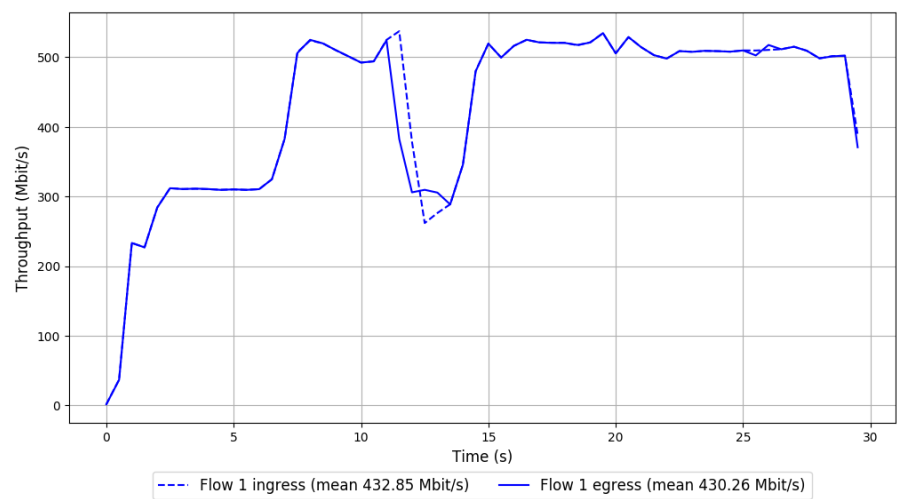
-- Flow 1:

Average throughput: 430.26 Mbit/s

95th percentile per-packet one-way delay: 4.653 ms

Loss rate: 0.66%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-03-13 03:28:43

End at: 2018-03-13 03:29:13

Local clock offset: 1.1 ms

Remote clock offset: -6.462 ms

Below is generated by plot.py at 2018-03-13 12:11:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 413.36 Mbit/s

95th percentile per-packet one-way delay: 105.058 ms

Loss rate: 2.16%

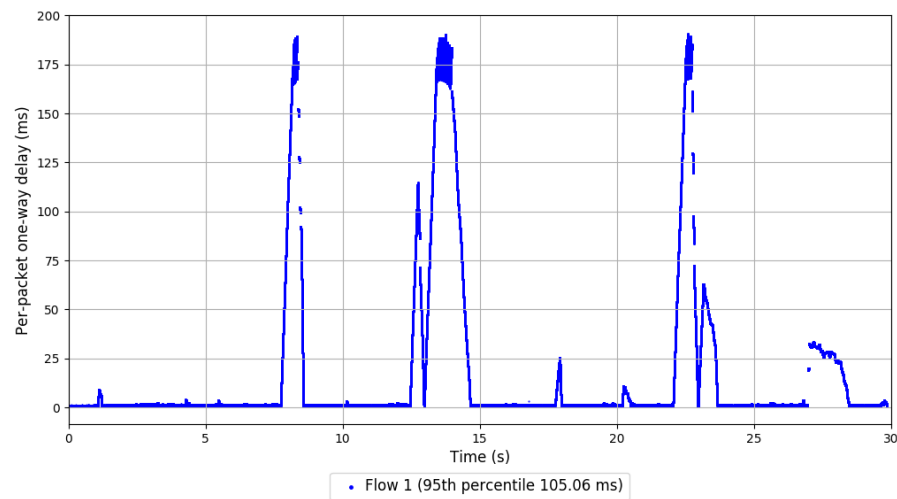
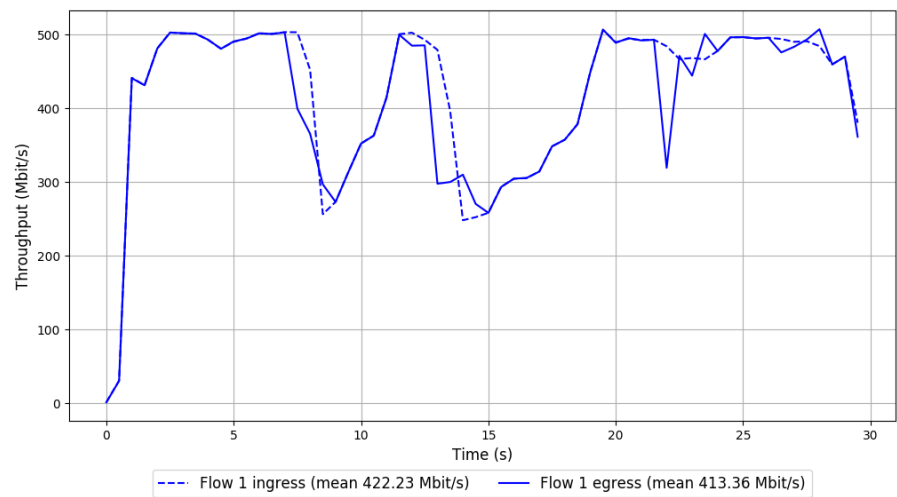
-- Flow 1:

Average throughput: 413.36 Mbit/s

95th percentile per-packet one-way delay: 105.058 ms

Loss rate: 2.16%

Run 6: Report of Vivace-LTE — Data Link

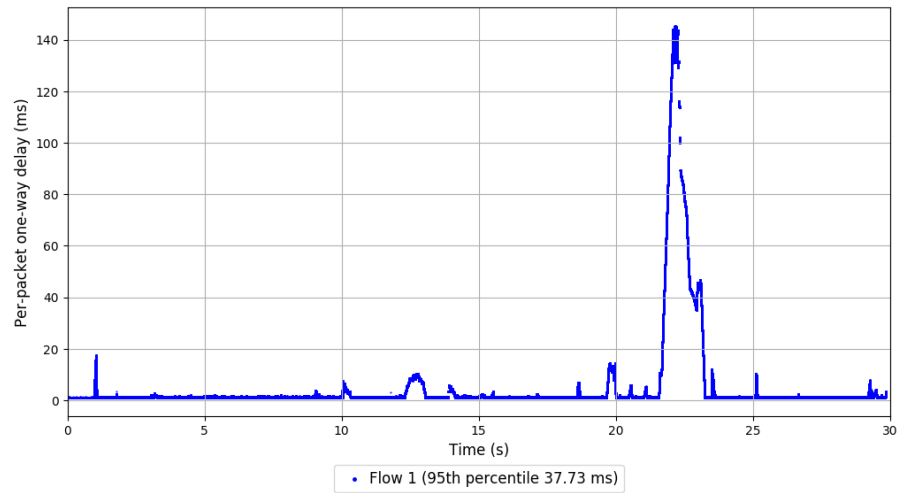
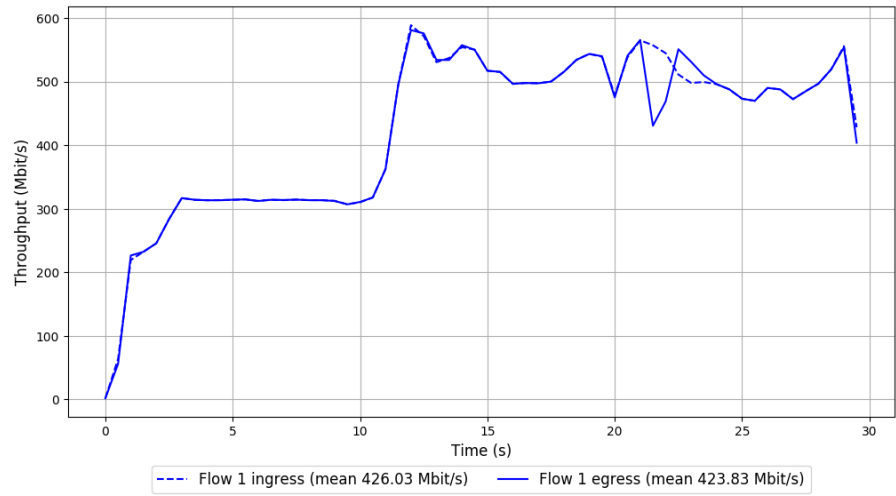


Run 7: Statistics of Vivace-LTE

Start at: 2018-03-13 03:56:33
End at: 2018-03-13 03:57:03
Local clock offset: 1.202 ms
Remote clock offset: -6.053 ms

Below is generated by plot.py at 2018-03-13 12:11:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 423.83 Mbit/s
95th percentile per-packet one-way delay: 37.735 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 423.83 Mbit/s
95th percentile per-packet one-way delay: 37.735 ms
Loss rate: 0.58%

Run 7: Report of Vivace-LTE — Data Link

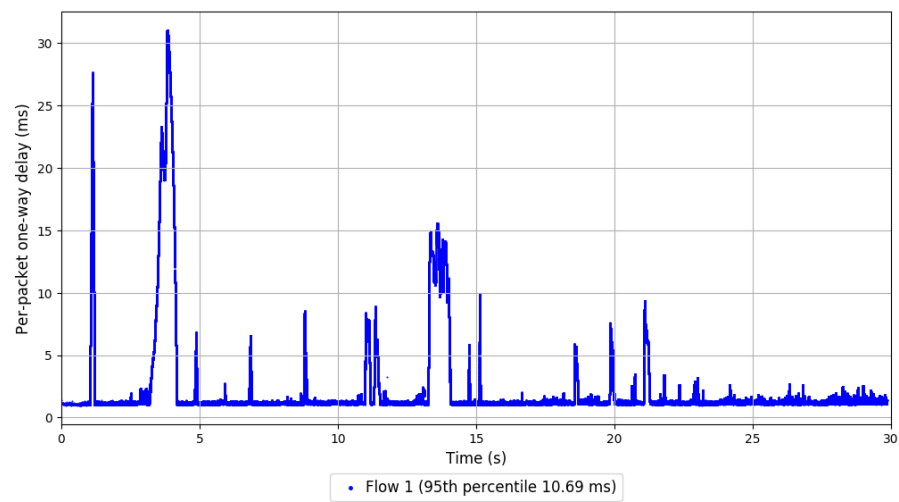
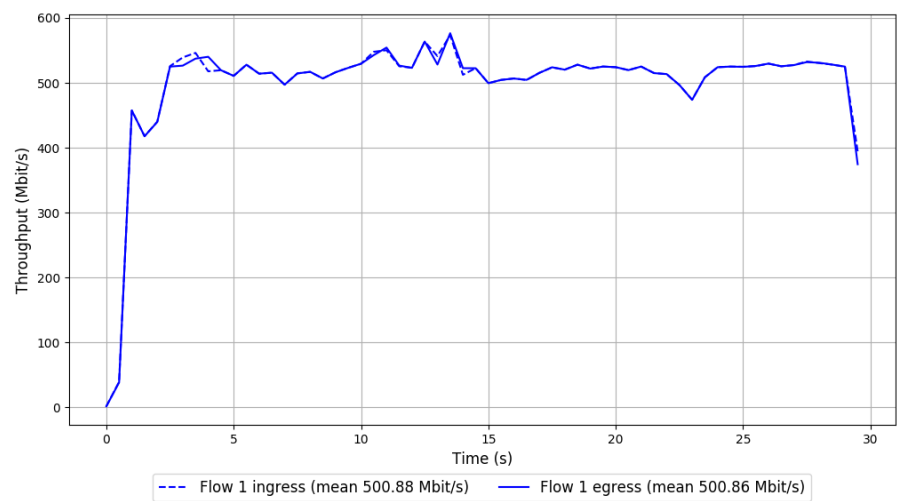


Run 8: Statistics of Vivace-LTE

Start at: 2018-03-13 04:24:19
End at: 2018-03-13 04:24:49
Local clock offset: 1.316 ms
Remote clock offset: -5.763 ms

Below is generated by plot.py at 2018-03-13 12:12:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 500.86 Mbit/s
95th percentile per-packet one-way delay: 10.692 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 500.86 Mbit/s
95th percentile per-packet one-way delay: 10.692 ms
Loss rate: 0.07%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-03-13 04:52:36

End at: 2018-03-13 04:53:06

Local clock offset: 1.371 ms

Remote clock offset: -5.579 ms

Below is generated by plot.py at 2018-03-13 12:12:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 475.60 Mbit/s

95th percentile per-packet one-way delay: 9.721 ms

Loss rate: 0.24%

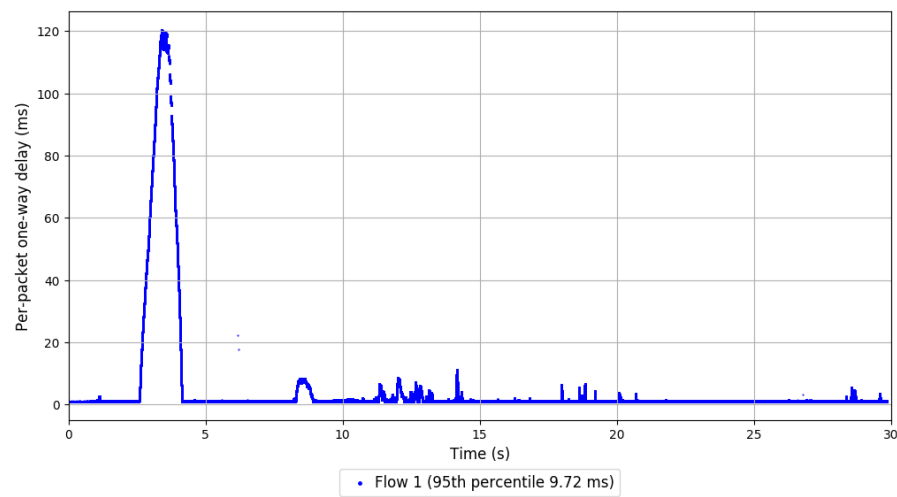
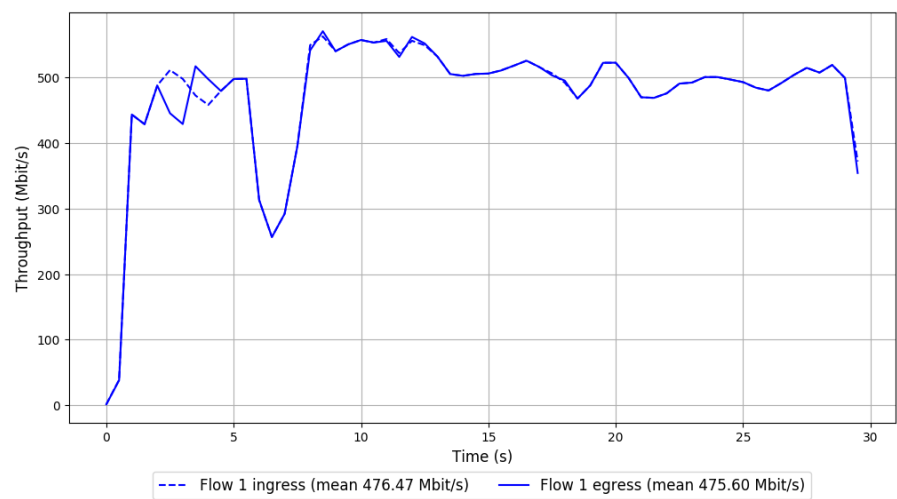
-- Flow 1:

Average throughput: 475.60 Mbit/s

95th percentile per-packet one-way delay: 9.721 ms

Loss rate: 0.24%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-03-13 05:19:56

End at: 2018-03-13 05:20:26

Local clock offset: 1.826 ms

Remote clock offset: -5.224 ms

Below is generated by plot.py at 2018-03-13 12:12:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 429.03 Mbit/s

95th percentile per-packet one-way delay: 113.376 ms

Loss rate: 1.48%

-- Flow 1:

Average throughput: 429.03 Mbit/s

95th percentile per-packet one-way delay: 113.376 ms

Loss rate: 1.48%

Run 10: Report of Vivace-LTE — Data Link

