

Pantheon Report

Generated at 2017-11-30 16:20:34 (UTC).

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

Repeated the test of 14 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).

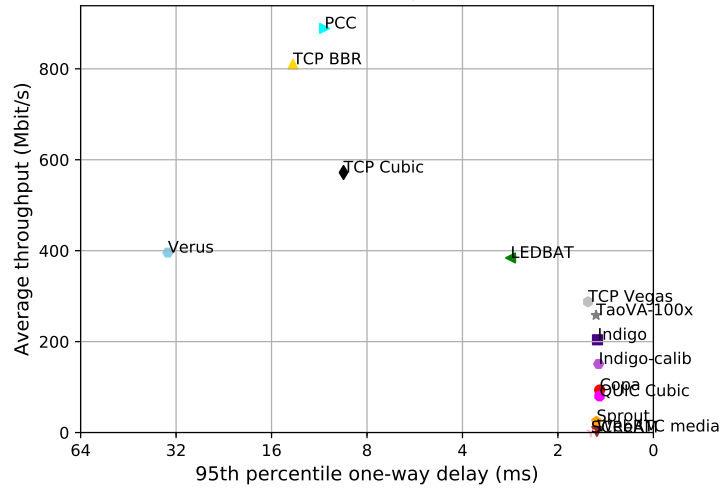
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

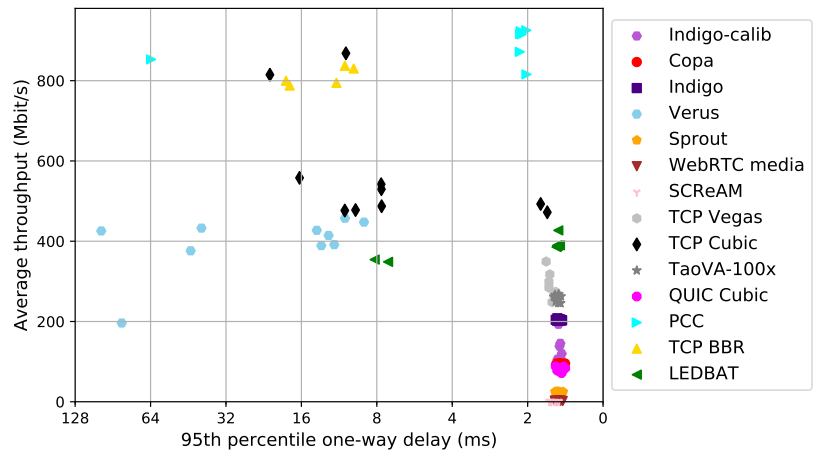
Git summary:

```
branch: indigos @ e3a57ad5ac5cfcaca0e3f983c8dd4cc3509e0262
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ b5b7c38e8391001927dc41c6cfa2627d03dde737
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fab936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
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 @ f1a14bffe749737437f61b1eaaeb30b267cde681
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/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from Stanford Ethernet to AWS California 1 Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from Stanford Ethernet to AWS California 1 Ethernet, 10 runs of 30s each per scheme



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	809.98	13.69	0.10
TCP Cubic	10	571.89	9.49	0.06
LEDBAT	8	384.05	2.82	0.07
PCC	7	888.70	10.89	0.45
QUIC Cubic	10	80.10	1.13	0.06
SCReAM	10	0.22	1.31	0.13
WebRTC media	10	2.37	1.18	0.07
Sprout	10	24.81	1.19	0.06
TaoVA-100x	10	257.97	1.20	0.07
TCP Vegas	8	287.54	1.37	0.07
Verus	10	395.76	33.97	0.79
Copa	10	93.47	1.13	0.06
Indigo	10	204.03	1.17	0.07
Indigo-calib	10	150.89	1.15	0.08

Run 1: Statistics of TCP BBR

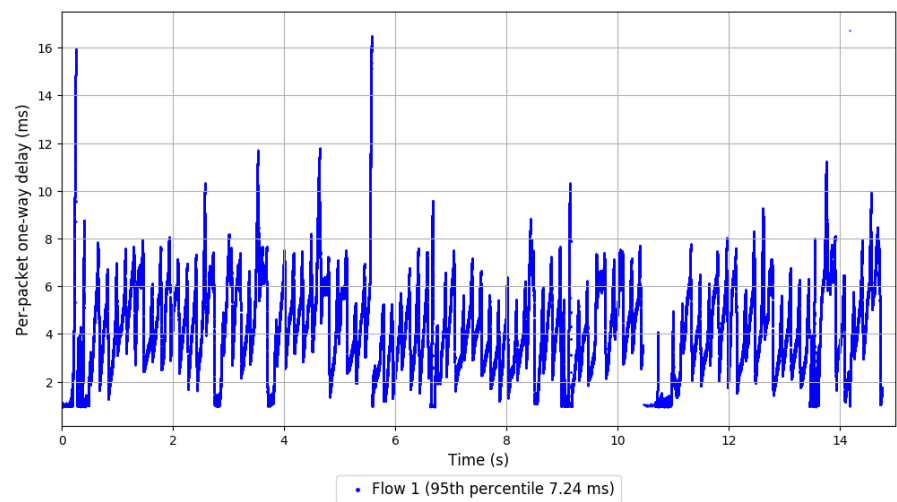
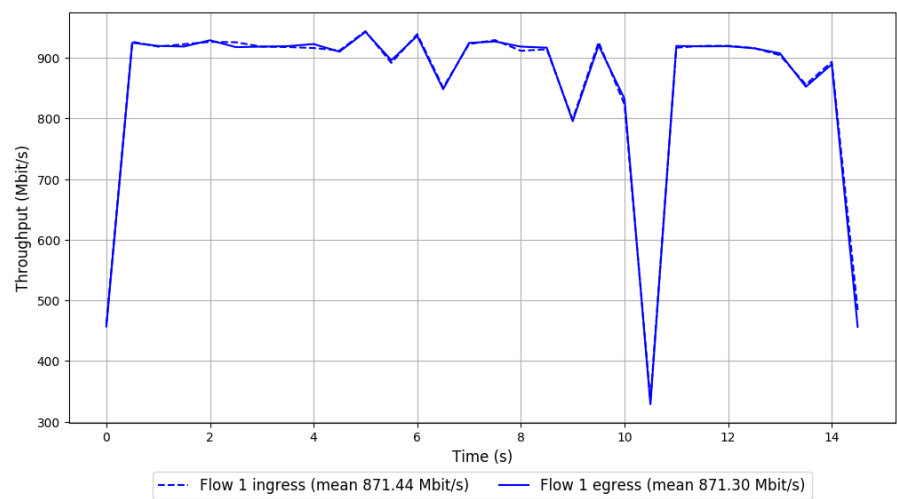
Start at: 2017-11-30 09:00:58

End at: 2017-11-30 09:01:28

Local clock offset: -0.024 ms

Remote clock offset: -3.09 ms

Run 1: Report of TCP BBR — Data Link

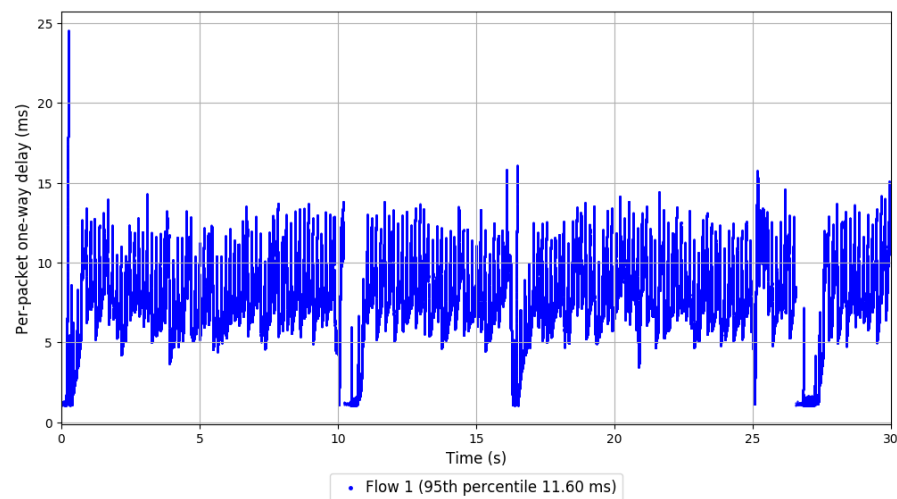
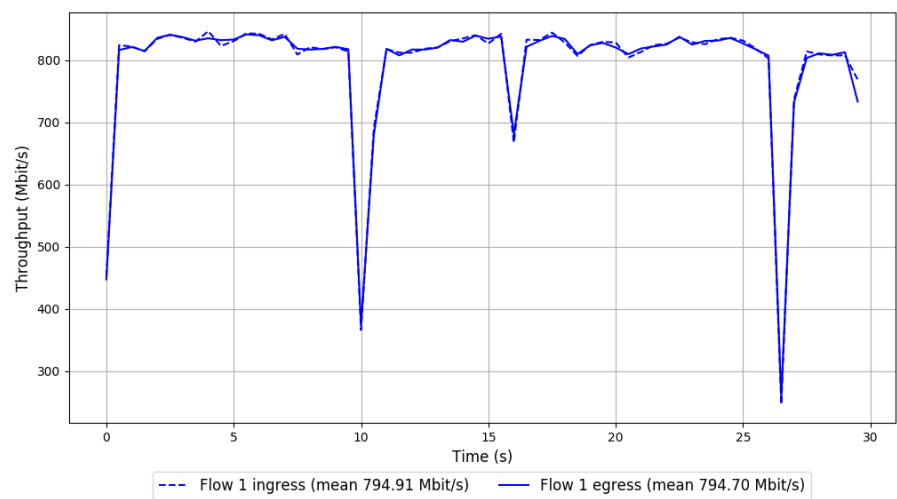


Run 2: Statistics of TCP BBR

Start at: 2017-11-30 09:20:00
End at: 2017-11-30 09:20:30
Local clock offset: -0.072 ms
Remote clock offset: -2.791 ms

Below is generated by plot.py at 2017-11-30 15:21:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 794.70 Mbit/s
95th percentile per-packet one-way delay: 11.595 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 794.70 Mbit/s
95th percentile per-packet one-way delay: 11.595 ms
Loss rate: 0.09%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

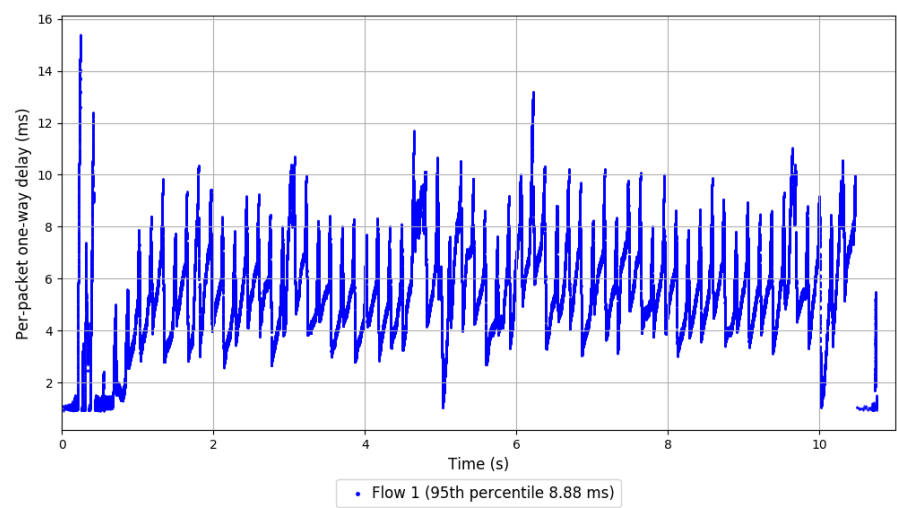
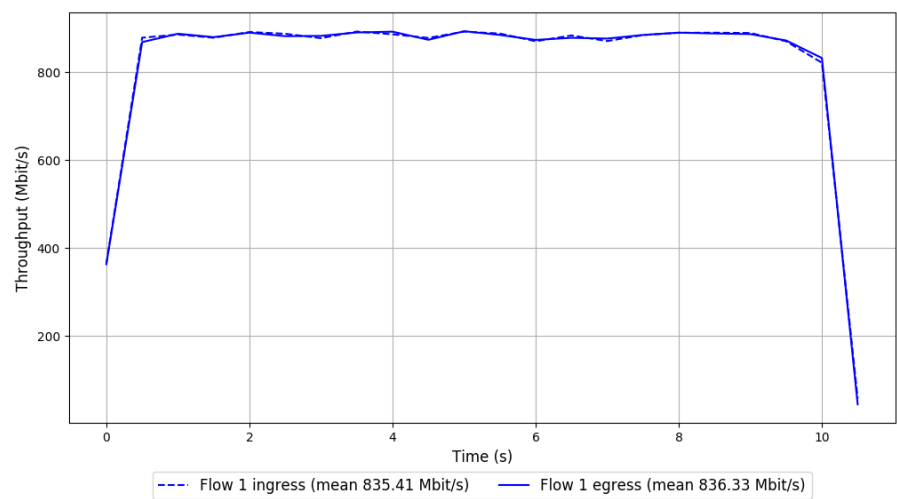
Start at: 2017-11-30 09:38:51

End at: 2017-11-30 09:39:21

Local clock offset: -0.264 ms

Remote clock offset: -2.807 ms

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

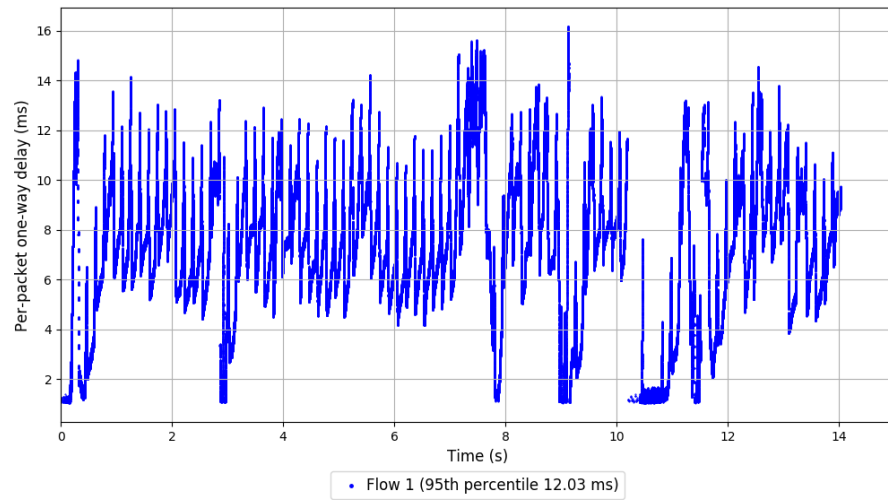
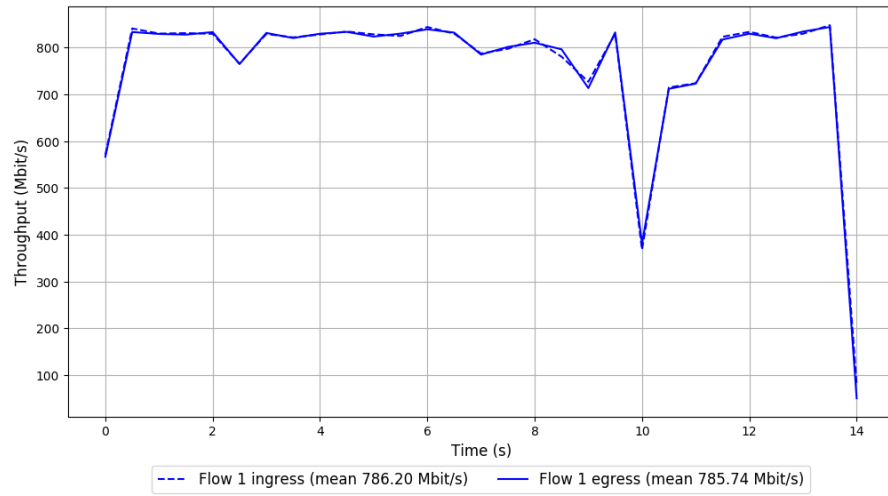
Start at: 2017-11-30 09:57:37

End at: 2017-11-30 09:58:07

Local clock offset: -0.192 ms

Remote clock offset: -2.485 ms

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

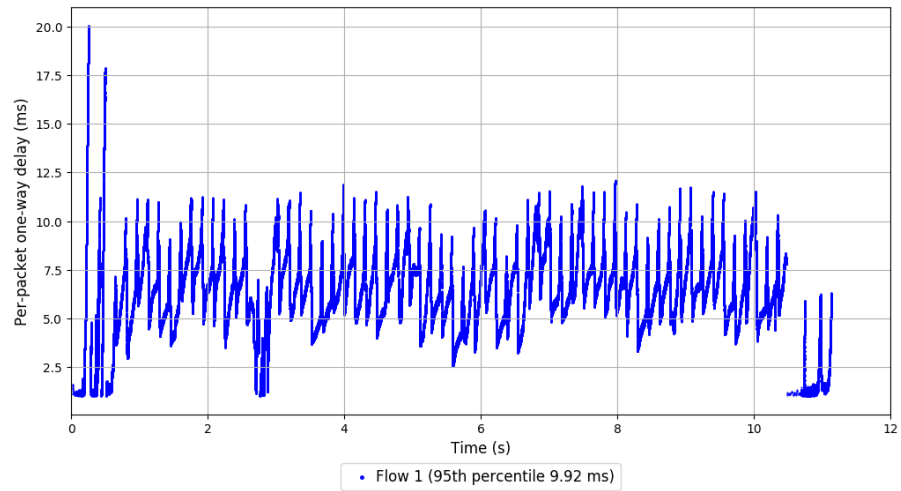
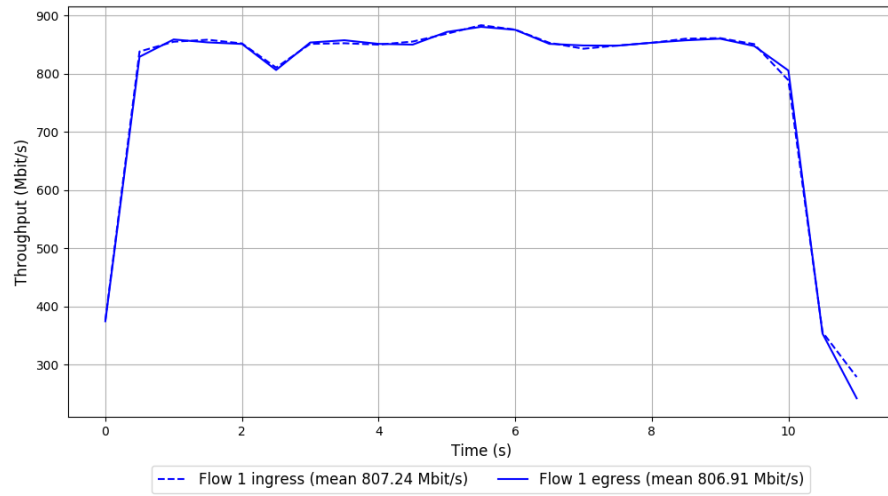
Start at: 2017-11-30 10:16:37

End at: 2017-11-30 10:17:07

Local clock offset: -0.268 ms

Remote clock offset: -1.682 ms

Run 5: Report of TCP BBR — Data Link

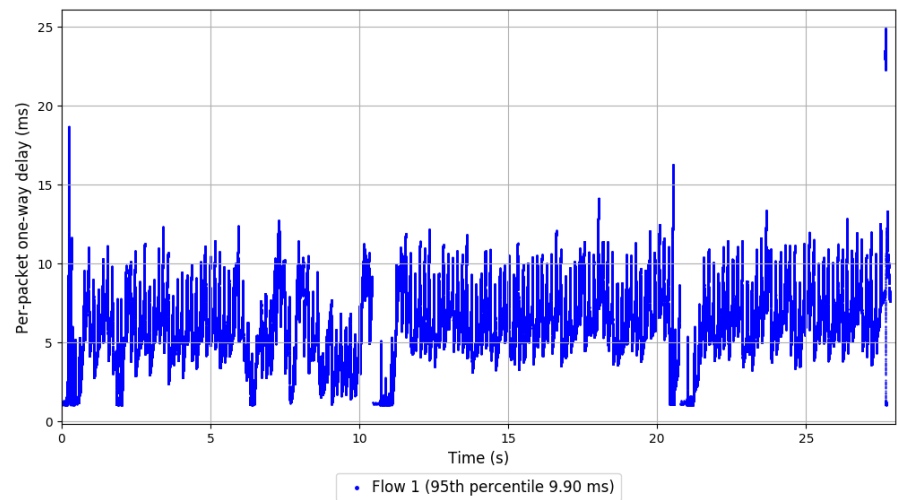
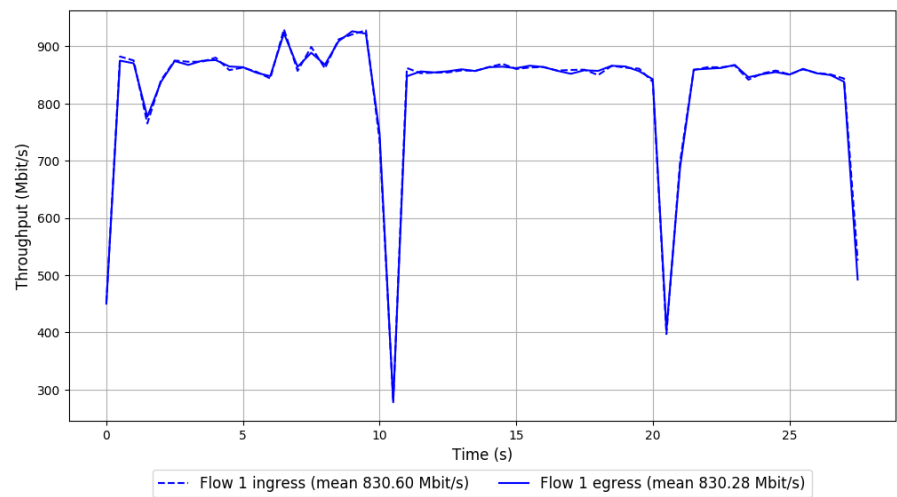


Run 6: Statistics of TCP BBR

Start at: 2017-11-30 10:35:48
End at: 2017-11-30 10:36:18
Local clock offset: -0.245 ms
Remote clock offset: -1.728 ms

Below is generated by plot.py at 2017-11-30 15:21:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 830.28 Mbit/s
95th percentile per-packet one-way delay: 9.896 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 830.28 Mbit/s
95th percentile per-packet one-way delay: 9.896 ms
Loss rate: 0.11%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

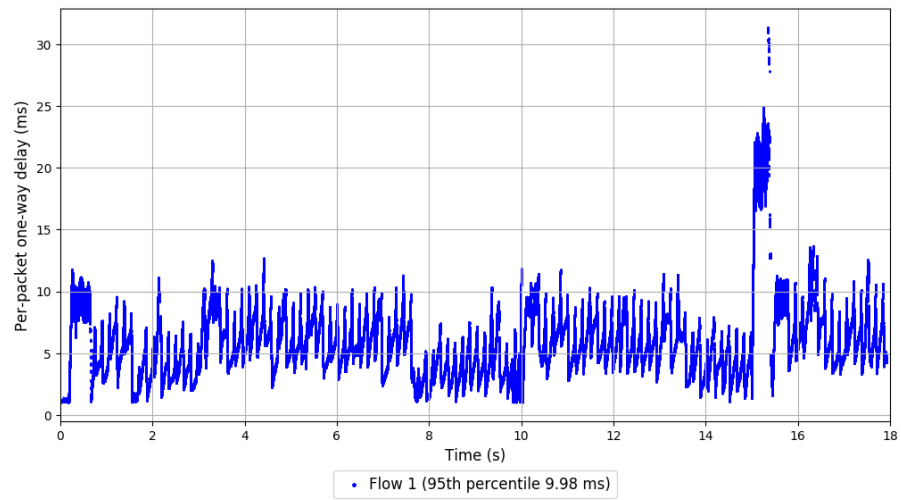
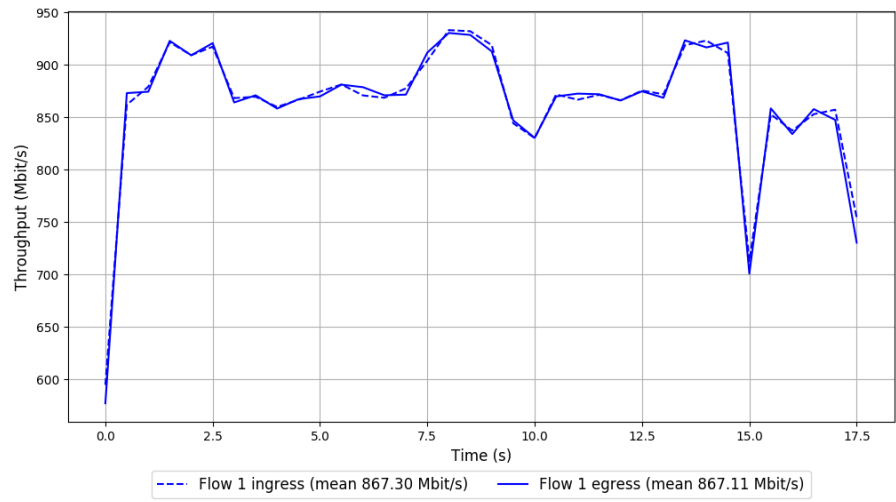
Start at: 2017-11-30 10:54:39

End at: 2017-11-30 10:55:09

Local clock offset: -0.253 ms

Remote clock offset: -1.62 ms

Run 7: Report of TCP BBR — Data Link

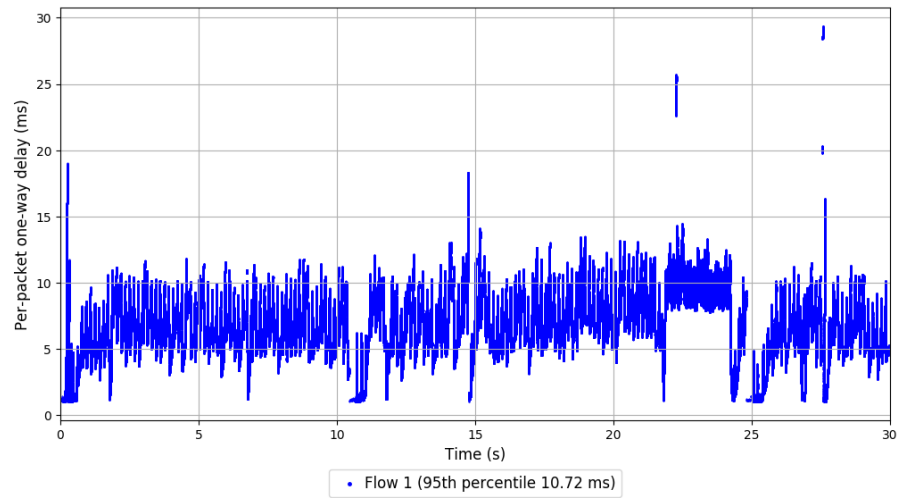
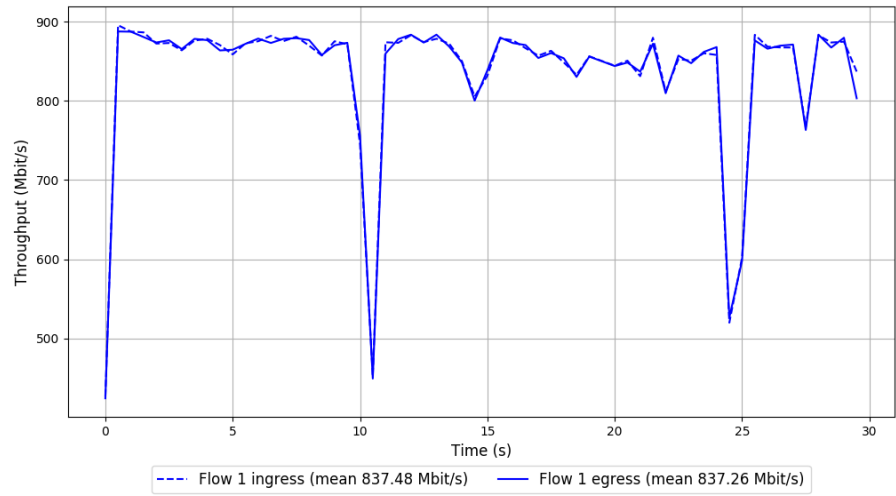


Run 8: Statistics of TCP BBR

Start at: 2017-11-30 11:13:41
End at: 2017-11-30 11:14:11
Local clock offset: -0.196 ms
Remote clock offset: -1.726 ms

Below is generated by plot.py at 2017-11-30 15:22:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 837.26 Mbit/s
95th percentile per-packet one-way delay: 10.725 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 837.26 Mbit/s
95th percentile per-packet one-way delay: 10.725 ms
Loss rate: 0.09%

Run 8: Report of TCP BBR — Data Link

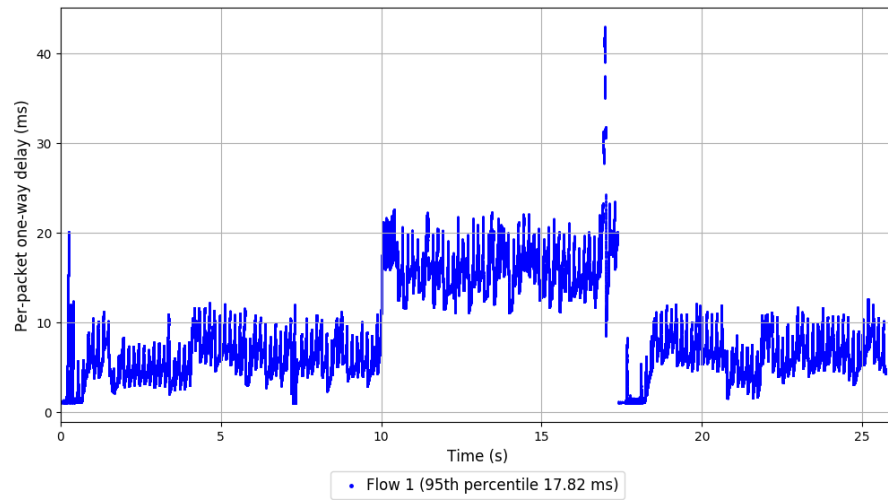
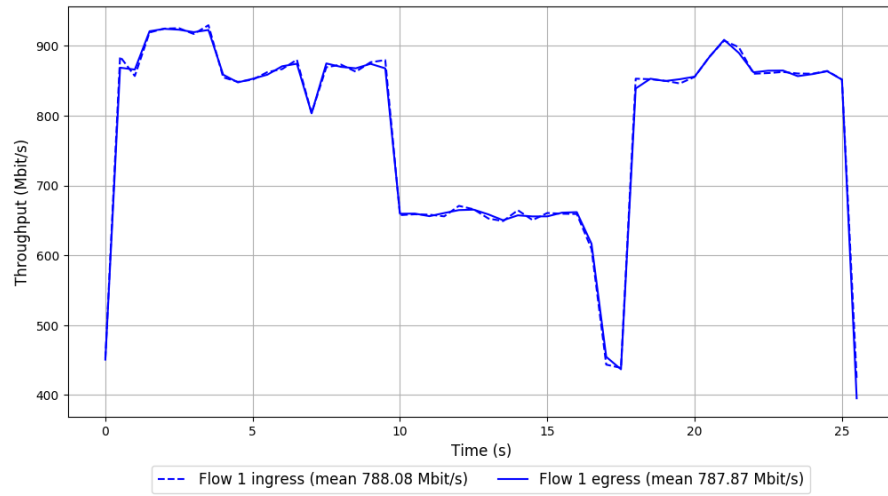


Run 9: Statistics of TCP BBR

Start at: 2017-11-30 11:32:54
End at: 2017-11-30 11:33:24
Local clock offset: -0.139 ms
Remote clock offset: -1.329 ms

Below is generated by plot.py at 2017-11-30 15:24:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 787.87 Mbit/s
95th percentile per-packet one-way delay: 17.819 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 787.87 Mbit/s
95th percentile per-packet one-way delay: 17.819 ms
Loss rate: 0.10%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-11-30 11:51:55

End at: 2017-11-30 11:52:25

Local clock offset: -0.104 ms

Remote clock offset: -1.28 ms

Below is generated by plot.py at 2017-11-30 15:25:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 799.80 Mbit/s

95th percentile per-packet one-way delay: 18.432 ms

Loss rate: 0.09%

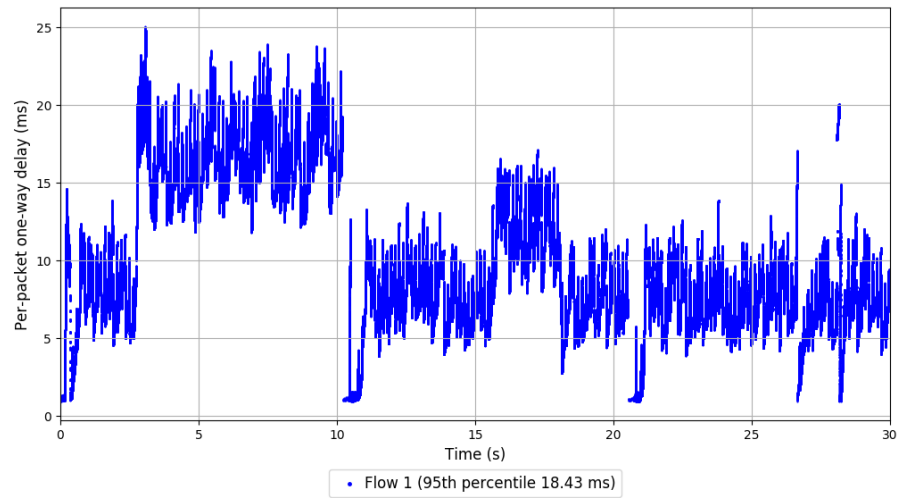
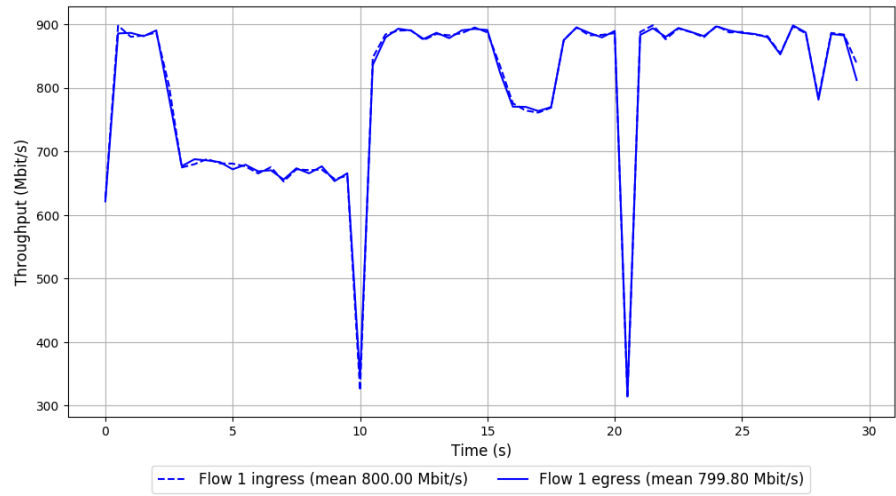
-- Flow 1:

Average throughput: 799.80 Mbit/s

95th percentile per-packet one-way delay: 18.432 ms

Loss rate: 0.09%

Run 10: Report of TCP BBR — Data Link

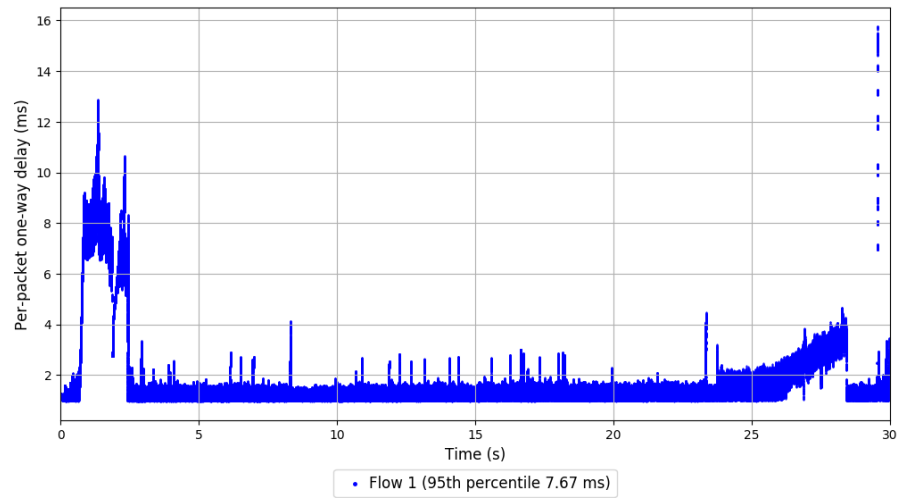
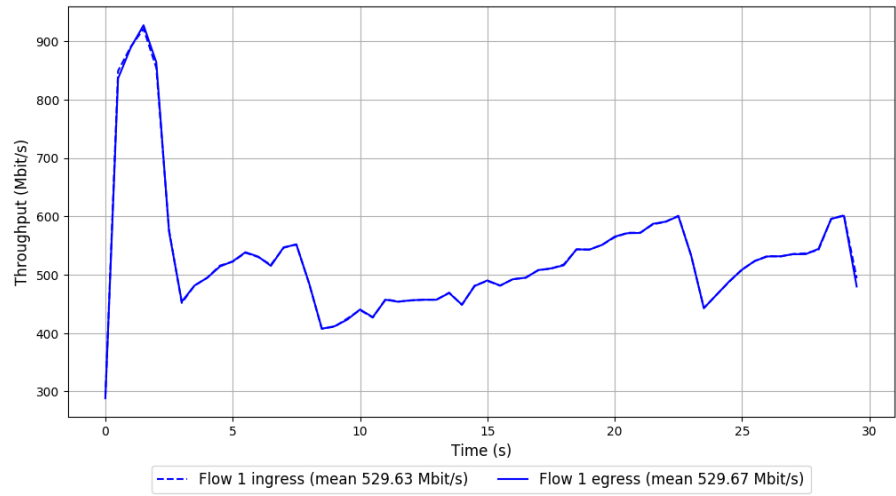


Run 1: Statistics of TCP Cubic

Start at: 2017-11-30 08:58:11
End at: 2017-11-30 08:58:41
Local clock offset: -0.008 ms
Remote clock offset: -3.202 ms

Below is generated by plot.py at 2017-11-30 15:25:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 529.67 Mbit/s
95th percentile per-packet one-way delay: 7.671 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 529.67 Mbit/s
95th percentile per-packet one-way delay: 7.671 ms
Loss rate: 0.05%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-30 09:17:14

End at: 2017-11-30 09:17:44

Local clock offset: -0.037 ms

Remote clock offset: -2.72 ms

Below is generated by plot.py at 2017-11-30 15:25:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 487.23 Mbit/s

95th percentile per-packet one-way delay: 7.654 ms

Loss rate: 0.06%

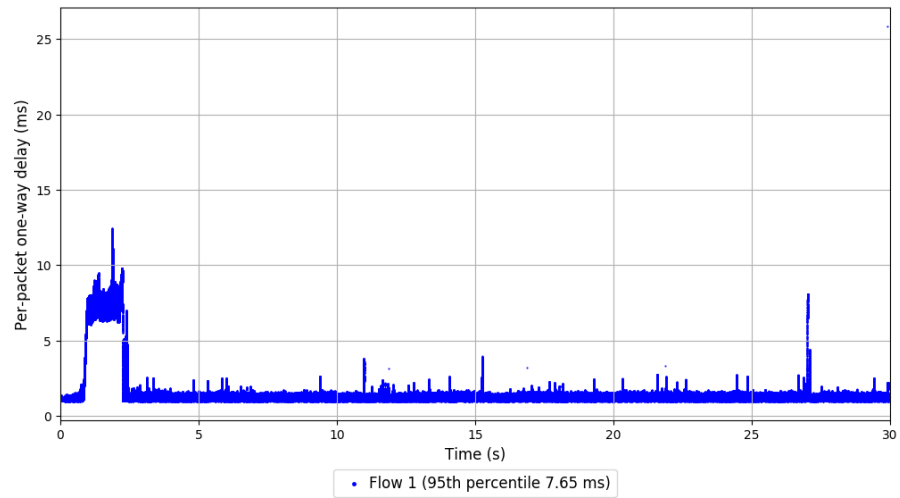
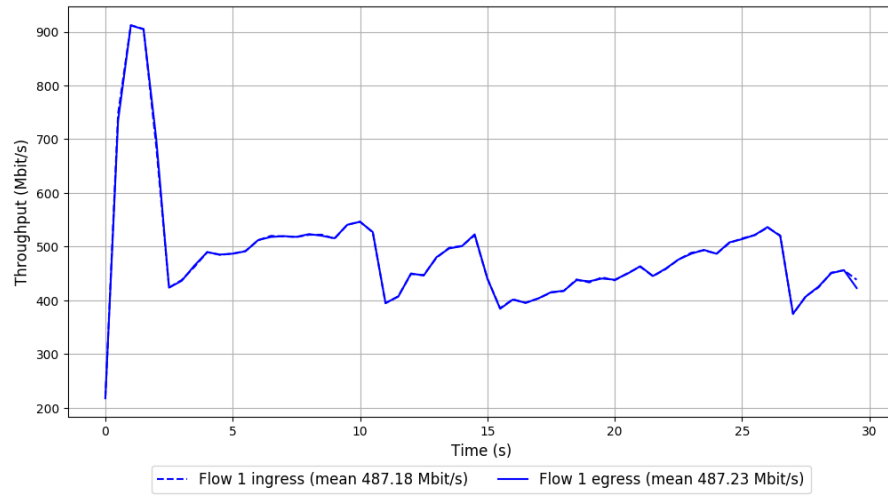
-- Flow 1:

Average throughput: 487.23 Mbit/s

95th percentile per-packet one-way delay: 7.654 ms

Loss rate: 0.06%

Run 2: Report of TCP Cubic — Data Link

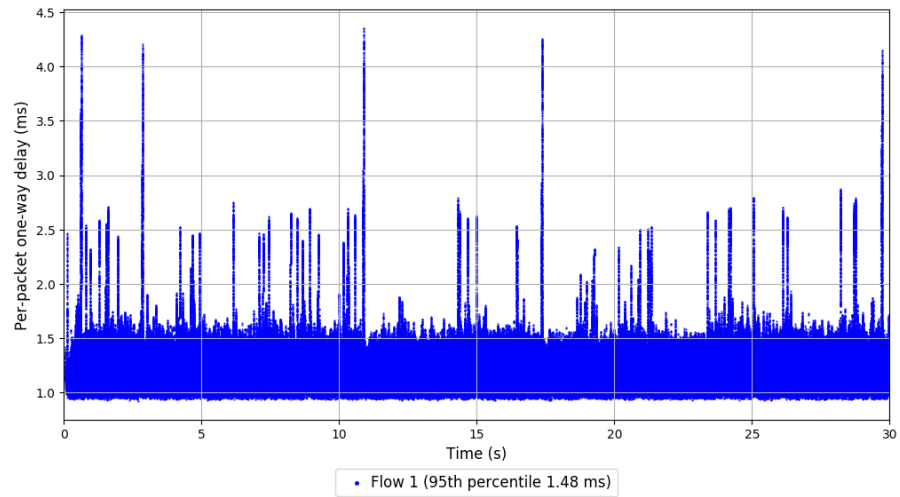
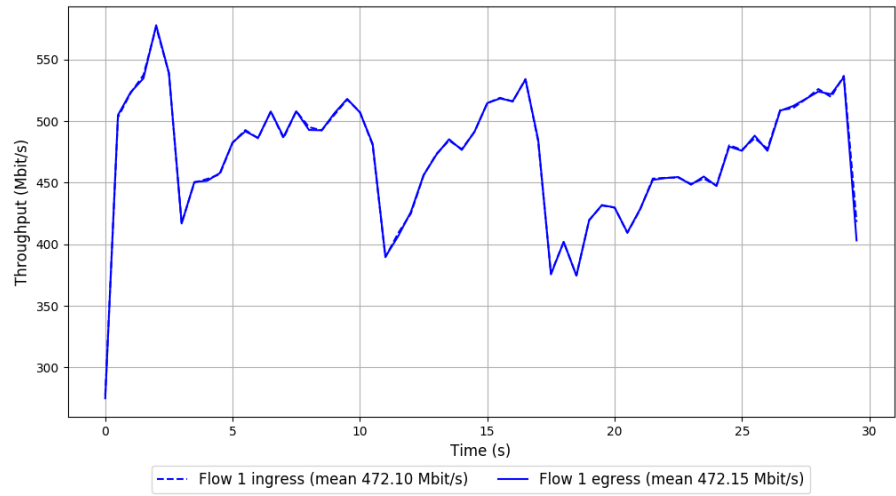


Run 3: Statistics of TCP Cubic

Start at: 2017-11-30 09:36:07
End at: 2017-11-30 09:36:37
Local clock offset: -0.265 ms
Remote clock offset: -2.807 ms

Below is generated by plot.py at 2017-11-30 15:25:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 472.15 Mbit/s
95th percentile per-packet one-way delay: 1.479 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 472.15 Mbit/s
95th percentile per-packet one-way delay: 1.479 ms
Loss rate: 0.06%

Run 3: Report of TCP Cubic — Data Link

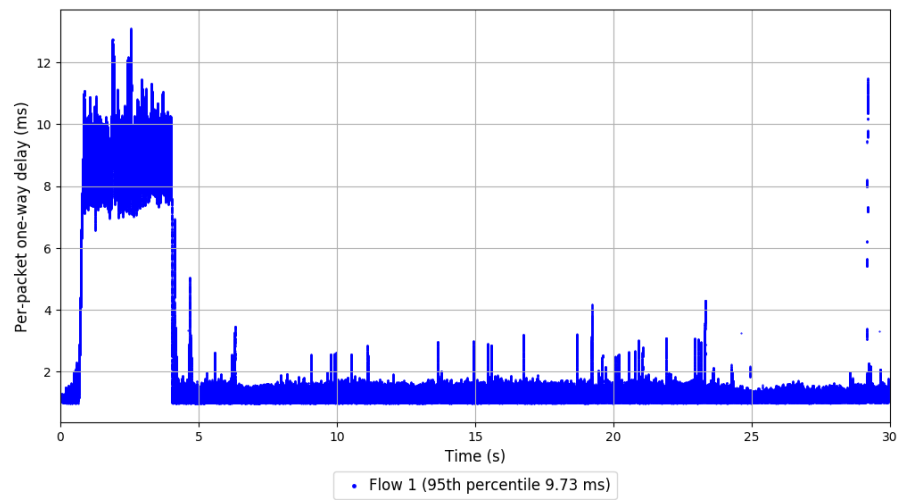
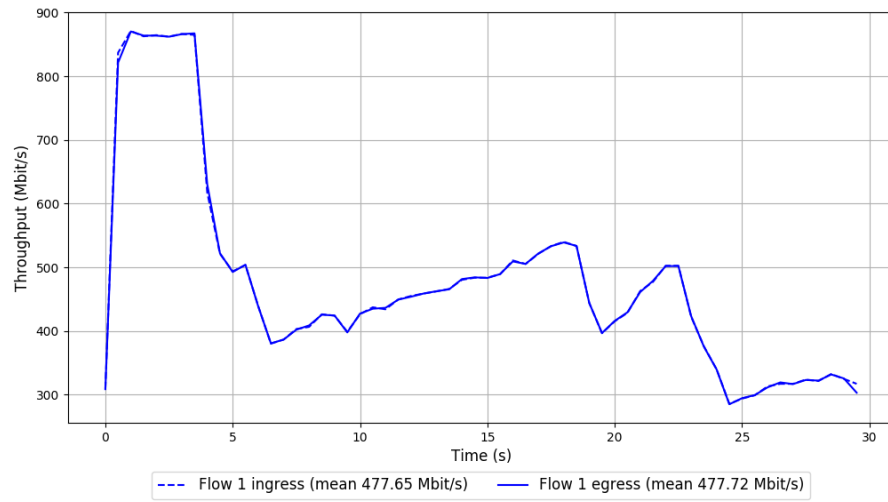


Run 4: Statistics of TCP Cubic

Start at: 2017-11-30 09:54:51
End at: 2017-11-30 09:55:21
Local clock offset: -0.26 ms
Remote clock offset: -2.572 ms

Below is generated by plot.py at 2017-11-30 15:27:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 477.72 Mbit/s
95th percentile per-packet one-way delay: 9.727 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 477.72 Mbit/s
95th percentile per-packet one-way delay: 9.727 ms
Loss rate: 0.05%

Run 4: Report of TCP Cubic — Data Link

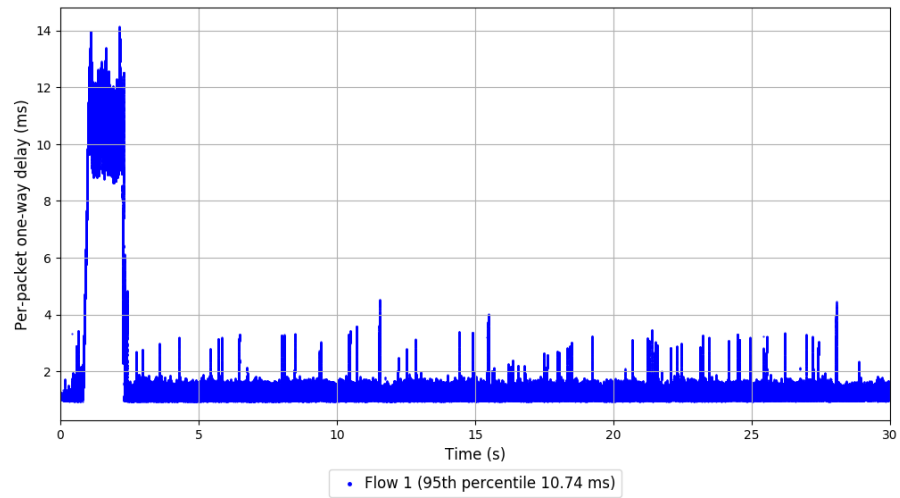
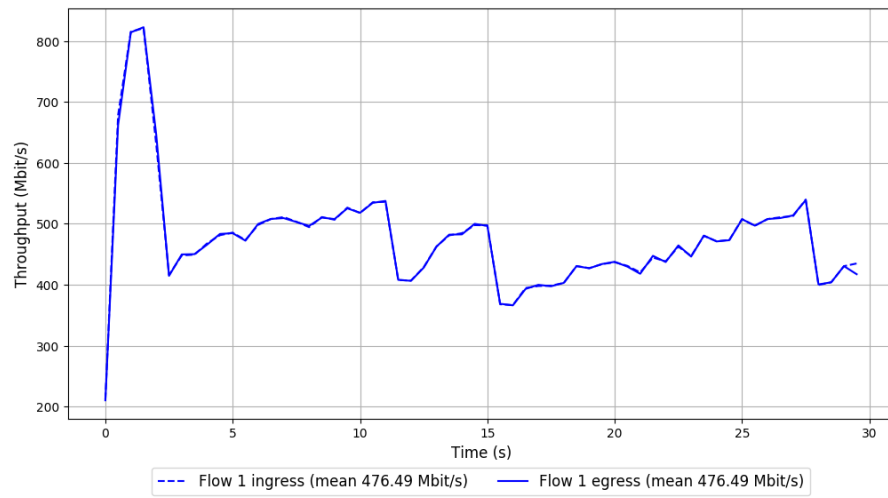


Run 5: Statistics of TCP Cubic

Start at: 2017-11-30 10:13:51
End at: 2017-11-30 10:14:21
Local clock offset: -0.349 ms
Remote clock offset: -1.837 ms

Below is generated by plot.py at 2017-11-30 15:27:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 476.49 Mbit/s
95th percentile per-packet one-way delay: 10.737 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 476.49 Mbit/s
95th percentile per-packet one-way delay: 10.737 ms
Loss rate: 0.07%

Run 5: Report of TCP Cubic — Data Link

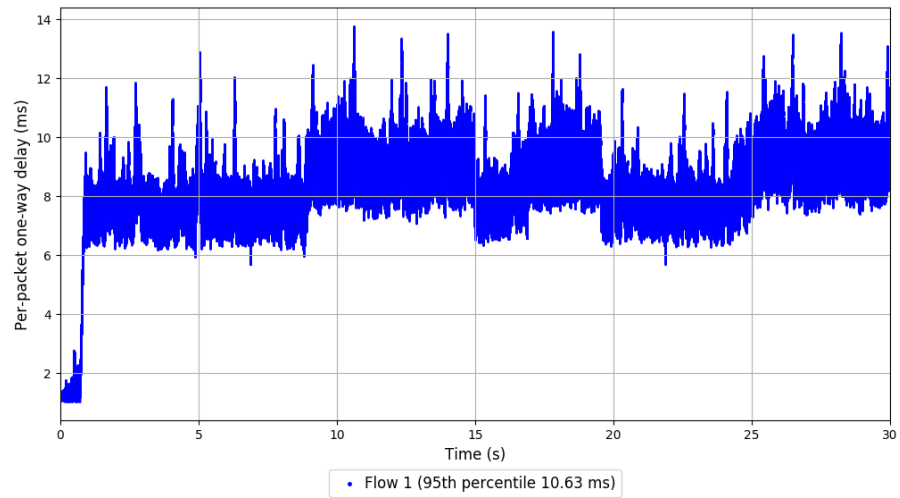
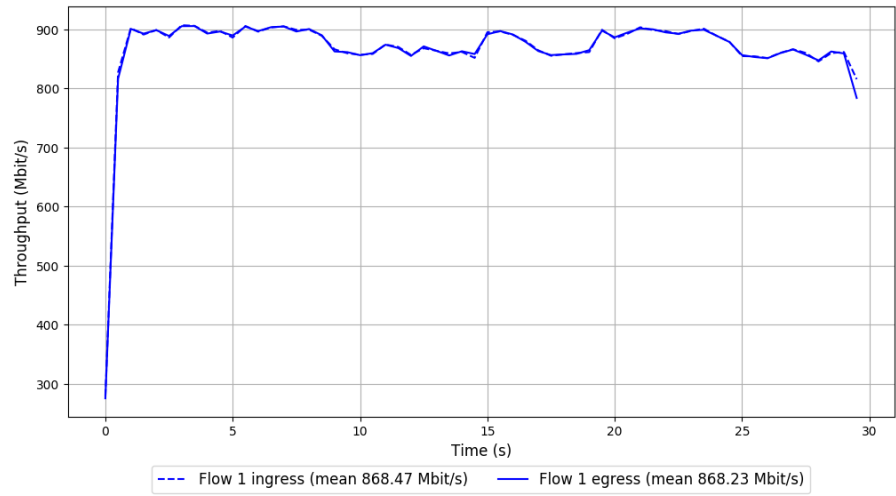


Run 6: Statistics of TCP Cubic

Start at: 2017-11-30 10:32:48
End at: 2017-11-30 10:33:18
Local clock offset: -0.251 ms
Remote clock offset: -1.705 ms

Below is generated by plot.py at 2017-11-30 15:34:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 868.23 Mbit/s
95th percentile per-packet one-way delay: 10.628 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 868.23 Mbit/s
95th percentile per-packet one-way delay: 10.628 ms
Loss rate: 0.09%

Run 6: Report of TCP Cubic — Data Link

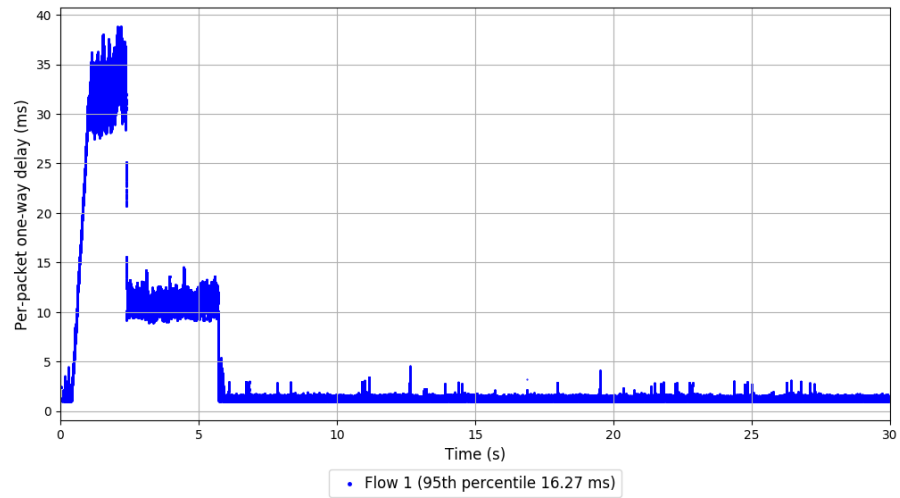
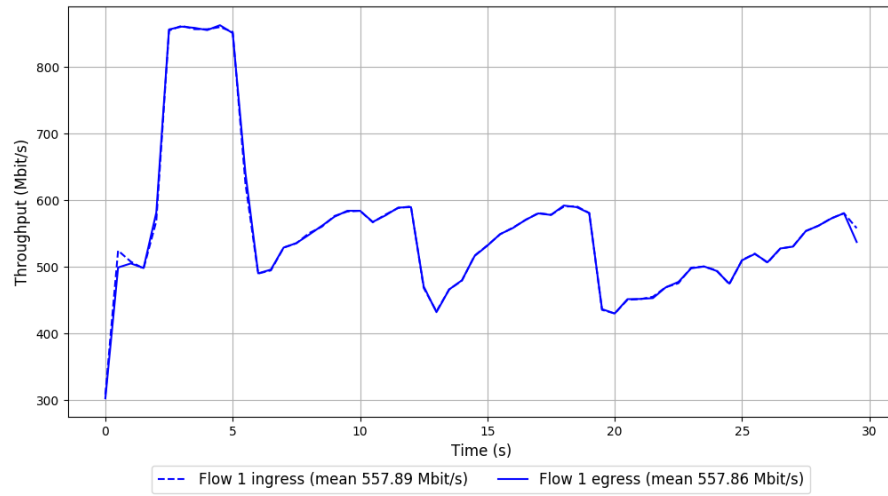


Run 7: Statistics of TCP Cubic

Start at: 2017-11-30 10:51:50
End at: 2017-11-30 10:52:20
Local clock offset: -0.252 ms
Remote clock offset: -1.619 ms

Below is generated by plot.py at 2017-11-30 15:34:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 557.86 Mbit/s
95th percentile per-packet one-way delay: 16.273 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 557.86 Mbit/s
95th percentile per-packet one-way delay: 16.273 ms
Loss rate: 0.07%

Run 7: Report of TCP Cubic — Data Link

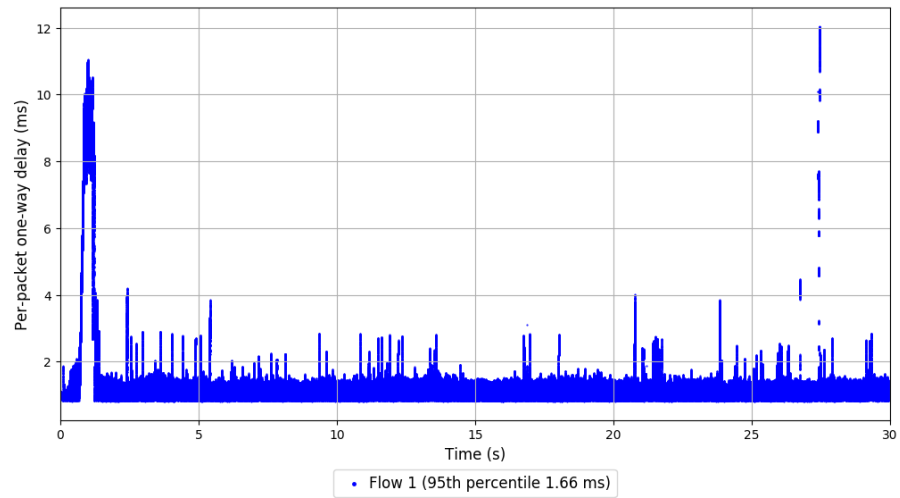
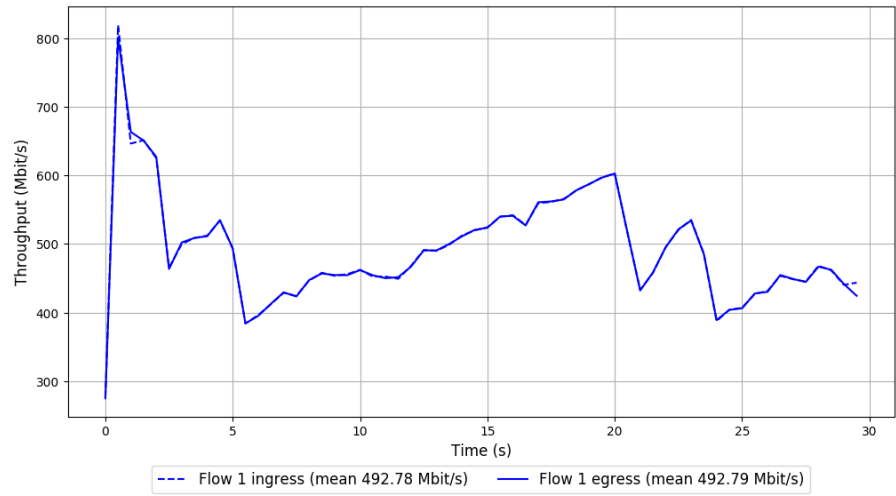


Run 8: Statistics of TCP Cubic

Start at: 2017-11-30 11:10:55
End at: 2017-11-30 11:11:25
Local clock offset: -0.32 ms
Remote clock offset: -1.621 ms

Below is generated by plot.py at 2017-11-30 15:34:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 492.79 Mbit/s
95th percentile per-packet one-way delay: 1.655 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 492.79 Mbit/s
95th percentile per-packet one-way delay: 1.655 ms
Loss rate: 0.06%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-11-30 11:29:56

End at: 2017-11-30 11:30:26

Local clock offset: -0.151 ms

Remote clock offset: -1.34 ms

Below is generated by plot.py at 2017-11-30 15:35:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 814.83 Mbit/s

95th percentile per-packet one-way delay: 21.370 ms

Loss rate: 0.03%

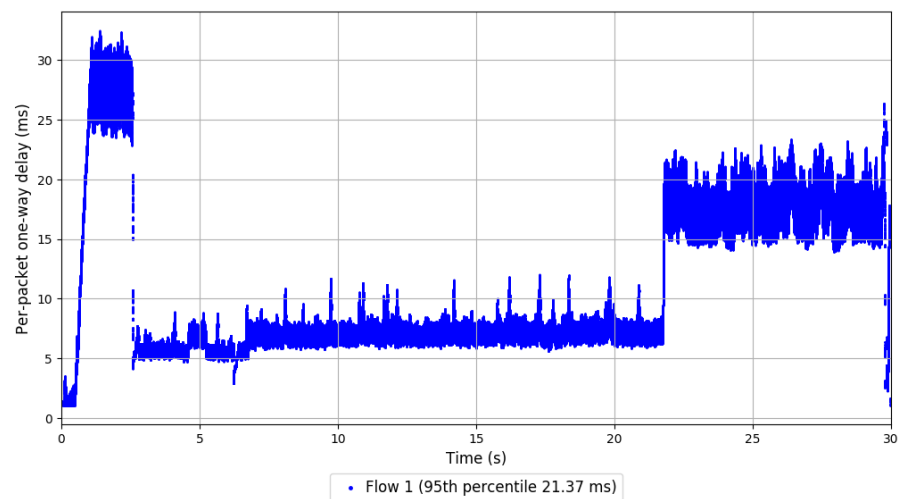
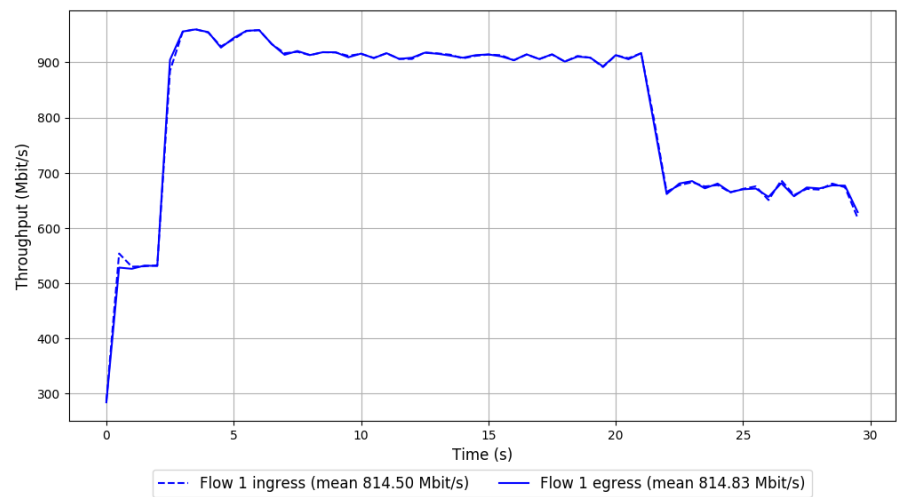
-- Flow 1:

Average throughput: 814.83 Mbit/s

95th percentile per-packet one-way delay: 21.370 ms

Loss rate: 0.03%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-11-30 11:49:06

End at: 2017-11-30 11:49:36

Local clock offset: -0.126 ms

Remote clock offset: -1.287 ms

Below is generated by plot.py at 2017-11-30 15:35:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 541.96 Mbit/s

95th percentile per-packet one-way delay: 7.687 ms

Loss rate: 0.06%

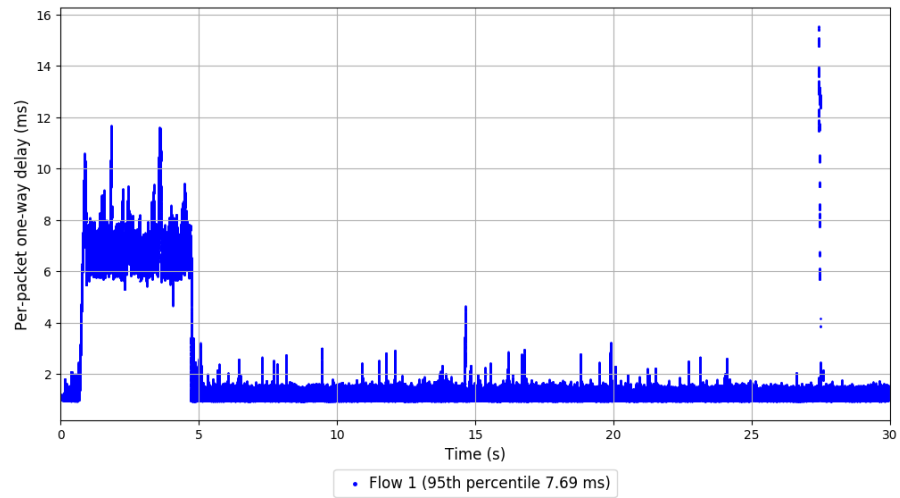
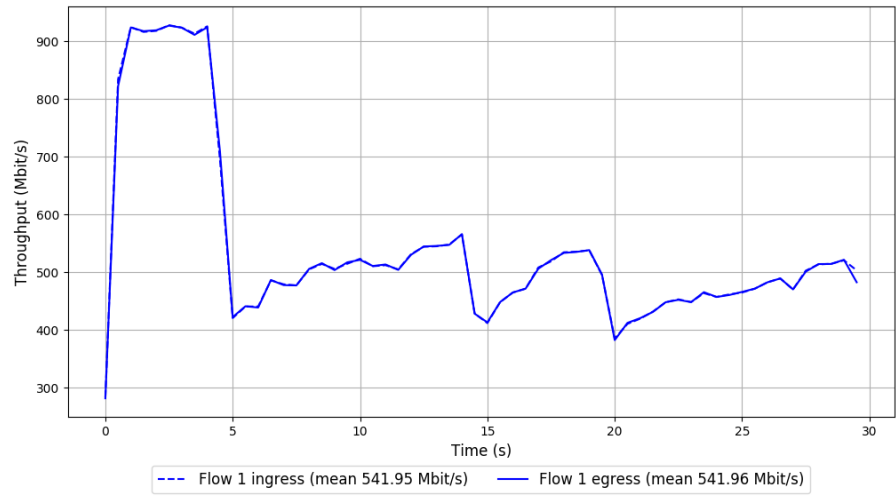
-- Flow 1:

Average throughput: 541.96 Mbit/s

95th percentile per-packet one-way delay: 7.687 ms

Loss rate: 0.06%

Run 10: Report of TCP Cubic — Data Link

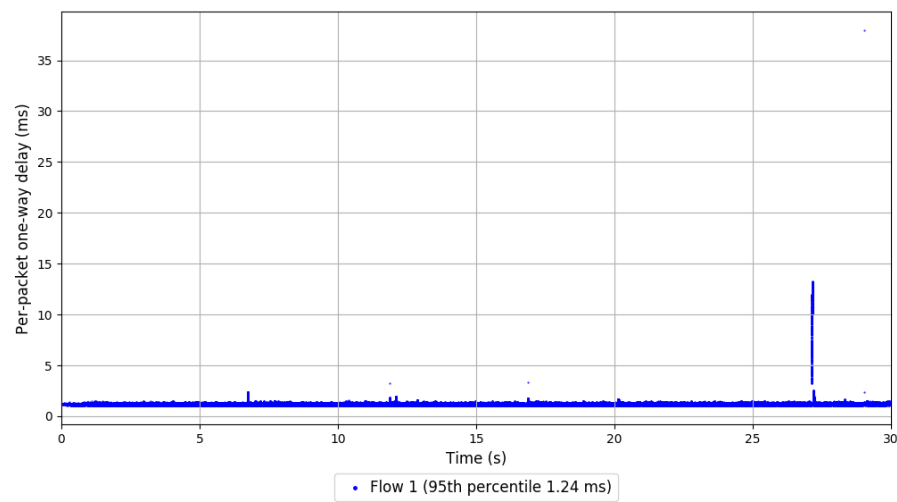
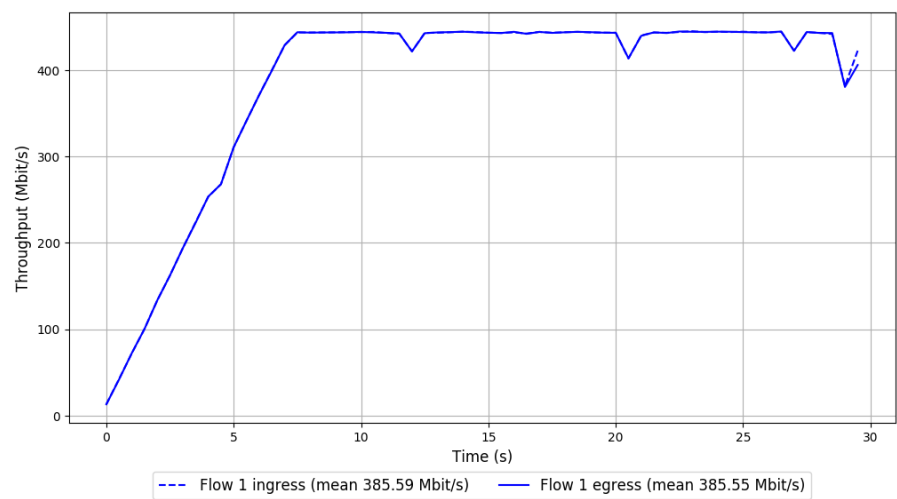


Run 1: Statistics of LEDBAT

Start at: 2017-11-30 09:03:47
End at: 2017-11-30 09:04:17
Local clock offset: 0.038 ms
Remote clock offset: -3.008 ms

Below is generated by plot.py at 2017-11-30 15:35:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 385.55 Mbit/s
95th percentile per-packet one-way delay: 1.235 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 385.55 Mbit/s
95th percentile per-packet one-way delay: 1.235 ms
Loss rate: 0.08%

Run 1: Report of LEDBAT — Data Link

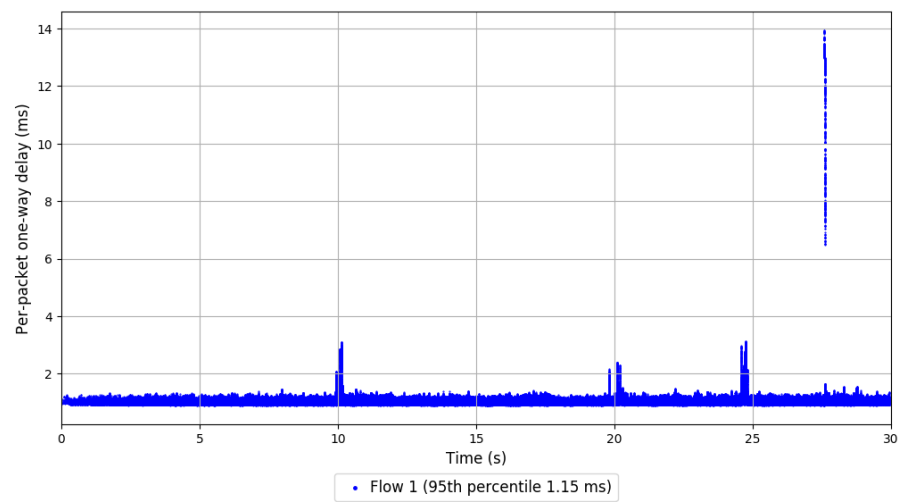
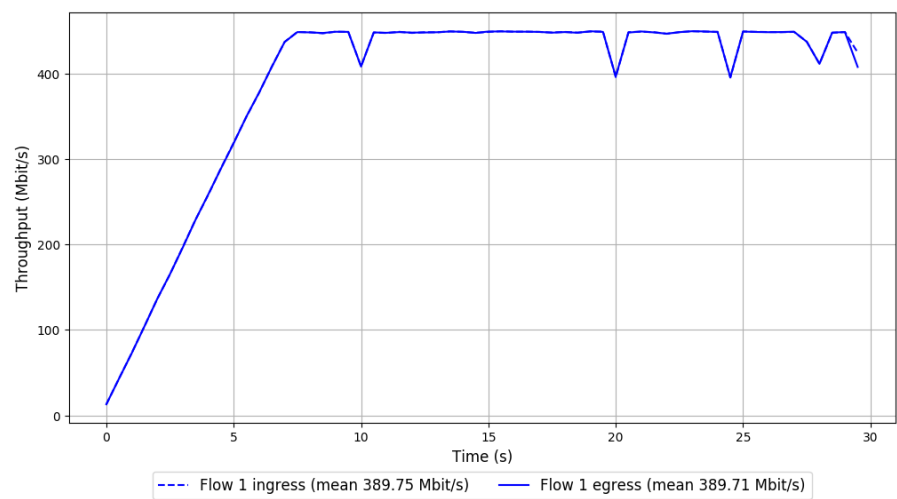


Run 2: Statistics of LEDBAT

Start at: 2017-11-30 09:23:01
End at: 2017-11-30 09:23:31
Local clock offset: -0.207 ms
Remote clock offset: -2.797 ms

Below is generated by plot.py at 2017-11-30 15:35:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 389.71 Mbit/s
95th percentile per-packet one-way delay: 1.145 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 389.71 Mbit/s
95th percentile per-packet one-way delay: 1.145 ms
Loss rate: 0.08%

Run 2: Report of LEDBAT — Data Link

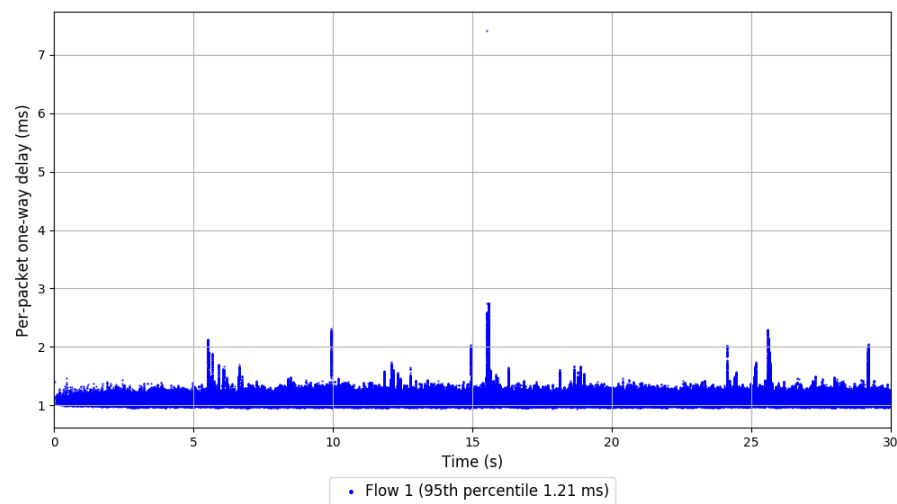
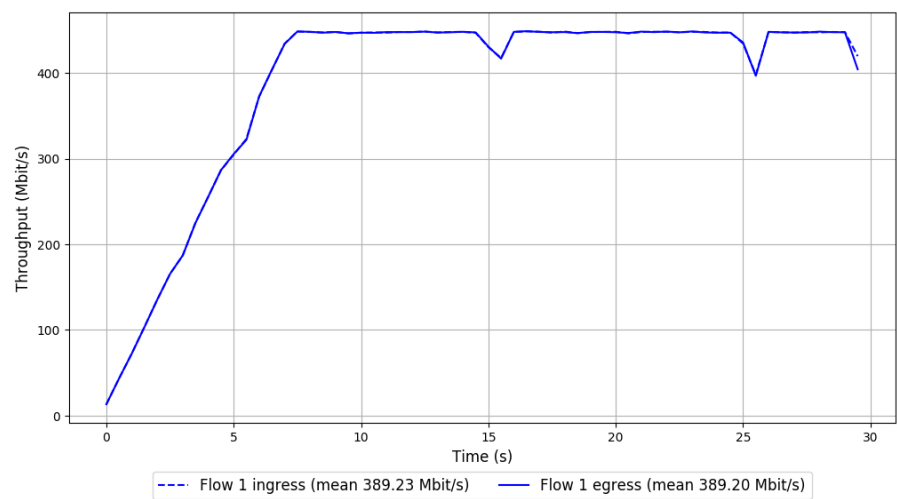


Run 3: Statistics of LEDBAT

Start at: 2017-11-30 09:41:35
End at: 2017-11-30 09:42:05
Local clock offset: -0.253 ms
Remote clock offset: -2.844 ms

Below is generated by plot.py at 2017-11-30 15:35:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 389.20 Mbit/s
95th percentile per-packet one-way delay: 1.212 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 389.20 Mbit/s
95th percentile per-packet one-way delay: 1.212 ms
Loss rate: 0.07%

Run 3: Report of LEDBAT — Data Link

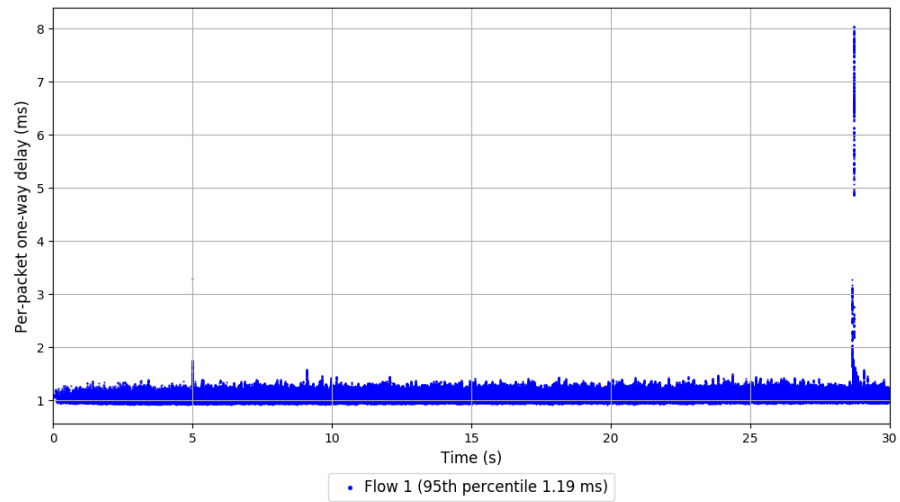
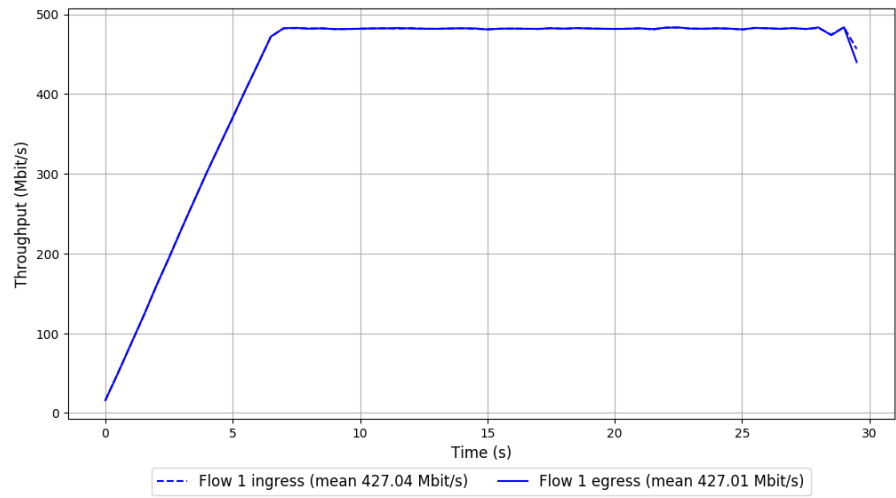


Run 4: Statistics of LEDBAT

Start at: 2017-11-30 10:00:26
End at: 2017-11-30 10:00:56
Local clock offset: -0.3 ms
Remote clock offset: -2.396 ms

Below is generated by plot.py at 2017-11-30 15:36:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 427.01 Mbit/s
95th percentile per-packet one-way delay: 1.188 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 427.01 Mbit/s
95th percentile per-packet one-way delay: 1.188 ms
Loss rate: 0.07%

Run 4: Report of LEDBAT — Data Link

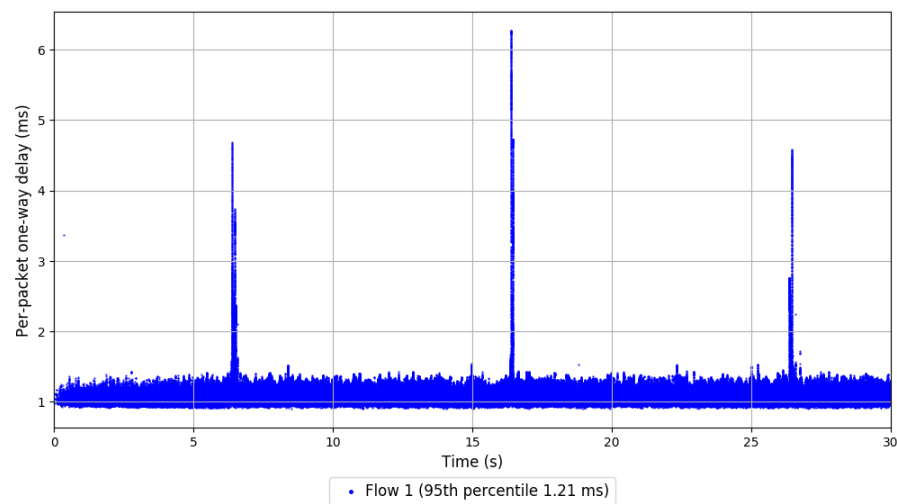
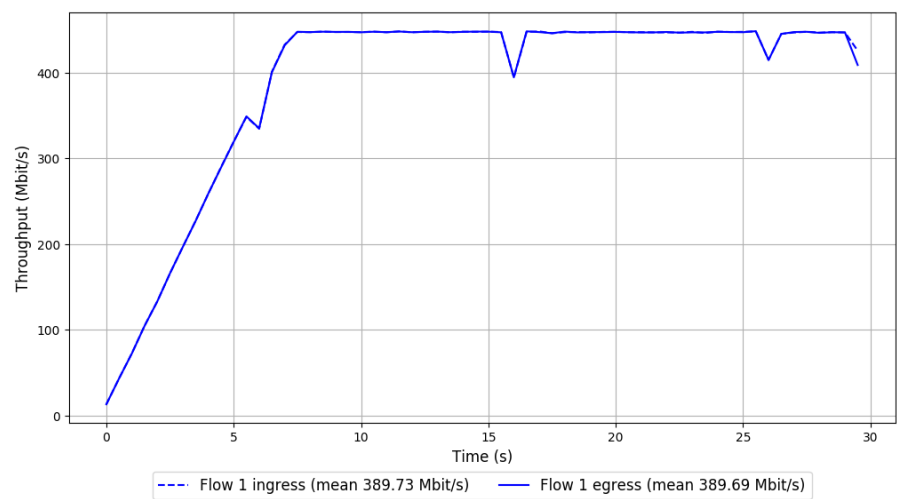


Run 5: Statistics of LEDBAT

Start at: 2017-11-30 10:19:19
End at: 2017-11-30 10:19:49
Local clock offset: -0.288 ms
Remote clock offset: -1.556 ms

Below is generated by plot.py at 2017-11-30 15:37:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 389.69 Mbit/s
95th percentile per-packet one-way delay: 1.213 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 389.69 Mbit/s
95th percentile per-packet one-way delay: 1.213 ms
Loss rate: 0.08%

Run 5: Report of LEDBAT — Data Link

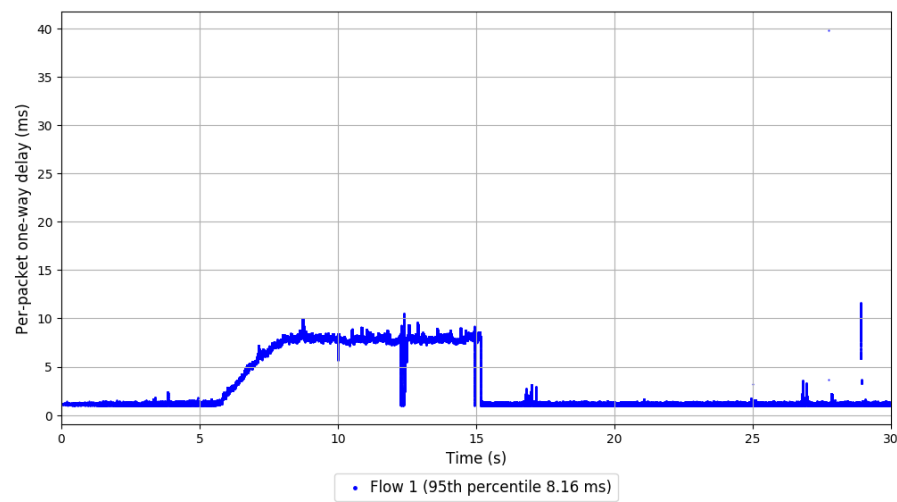
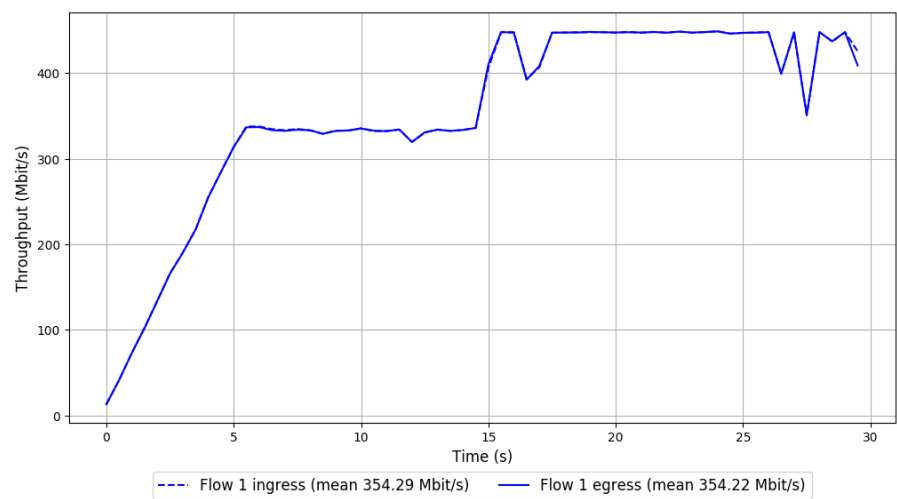


Run 6: Statistics of LEDBAT

Start at: 2017-11-30 10:38:49
End at: 2017-11-30 10:39:19
Local clock offset: -0.272 ms
Remote clock offset: -1.715 ms

Below is generated by plot.py at 2017-11-30 15:37:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 354.22 Mbit/s
95th percentile per-packet one-way delay: 8.162 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 354.22 Mbit/s
95th percentile per-packet one-way delay: 8.162 ms
Loss rate: 0.08%

Run 6: Report of LEDBAT — Data Link

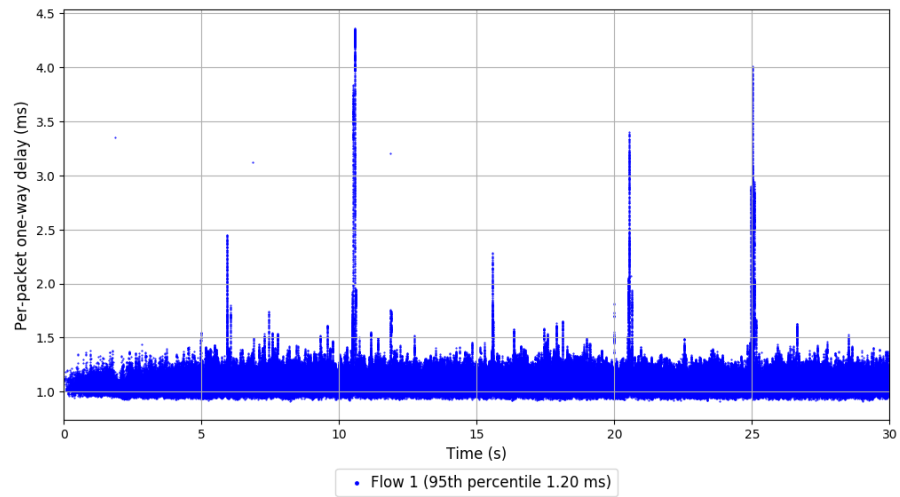
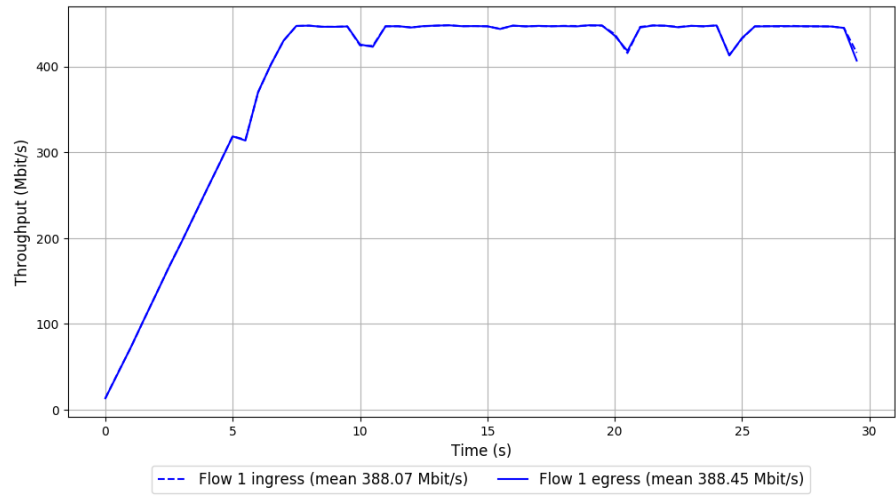


Run 7: Statistics of LEDBAT

Start at: 2017-11-30 10:57:30
End at: 2017-11-30 10:58:00
Local clock offset: -0.326 ms
Remote clock offset: -1.639 ms

Below is generated by plot.py at 2017-11-30 15:37:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 388.45 Mbit/s
95th percentile per-packet one-way delay: 1.204 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 388.45 Mbit/s
95th percentile per-packet one-way delay: 1.204 ms
Loss rate: 0.04%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

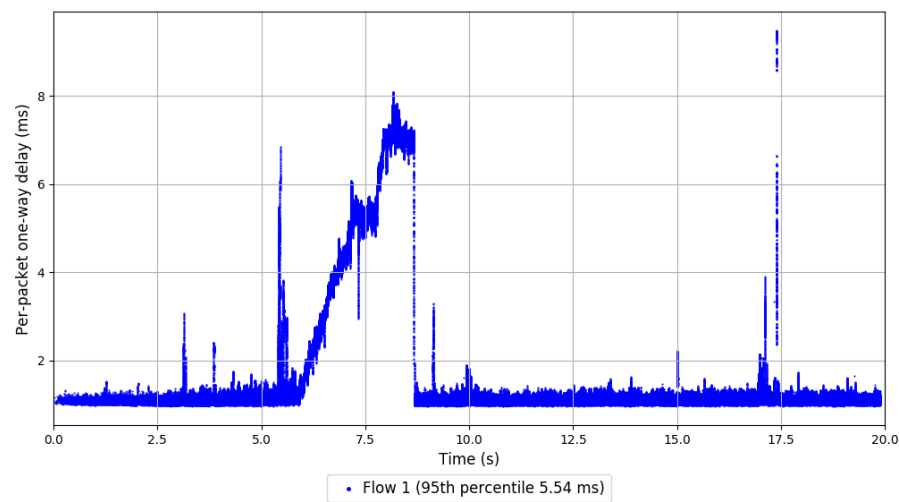
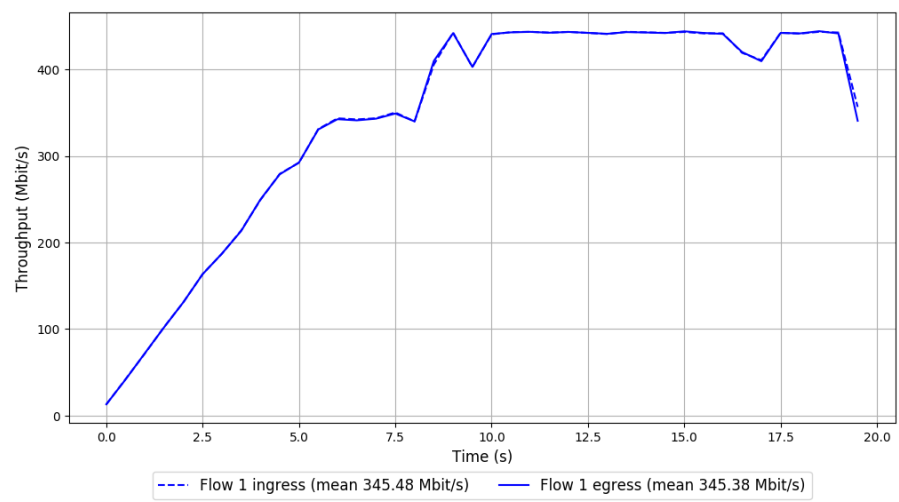
Start at: 2017-11-30 11:16:34

End at: 2017-11-30 11:17:04

Local clock offset: -0.153 ms

Remote clock offset: -1.58 ms

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-11-30 11:35:52

End at: 2017-11-30 11:36:22

Local clock offset: -0.185 ms

Remote clock offset: -1.3 ms

Below is generated by plot.py at 2017-11-30 15:39:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 348.54 Mbit/s

95th percentile per-packet one-way delay: 7.215 ms

Loss rate: 0.08%

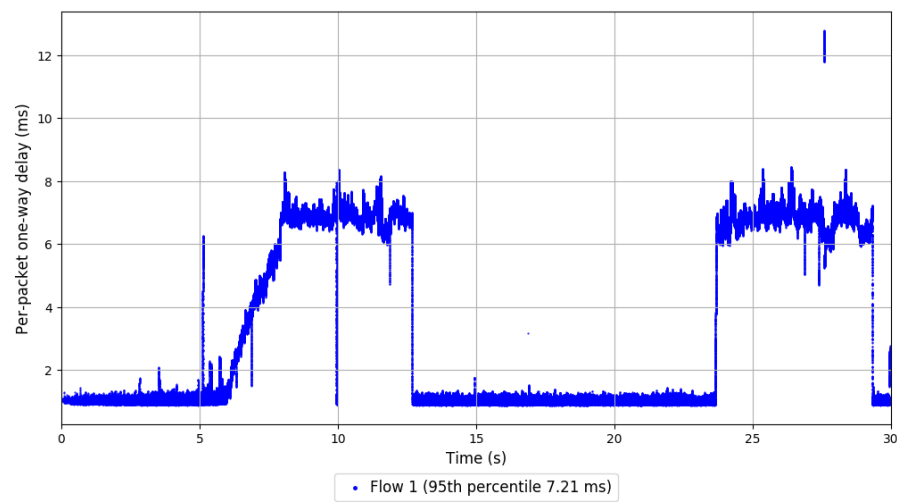
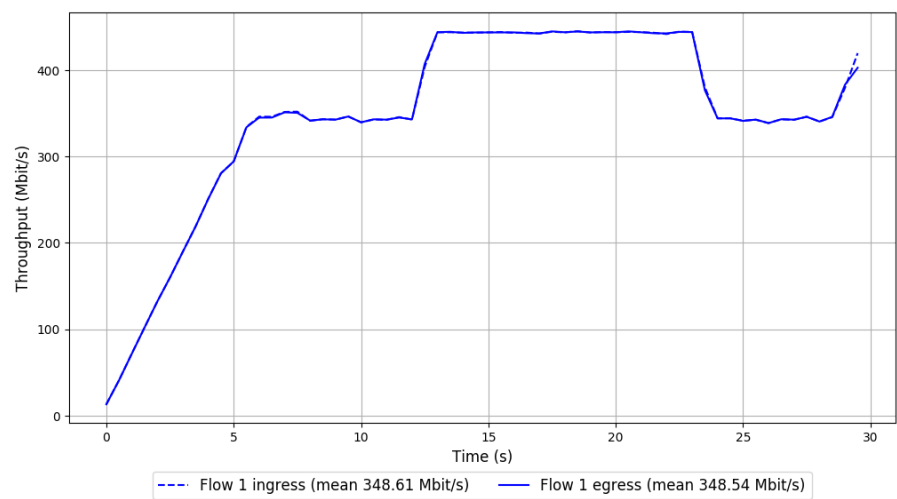
-- Flow 1:

Average throughput: 348.54 Mbit/s

95th percentile per-packet one-way delay: 7.215 ms

Loss rate: 0.08%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

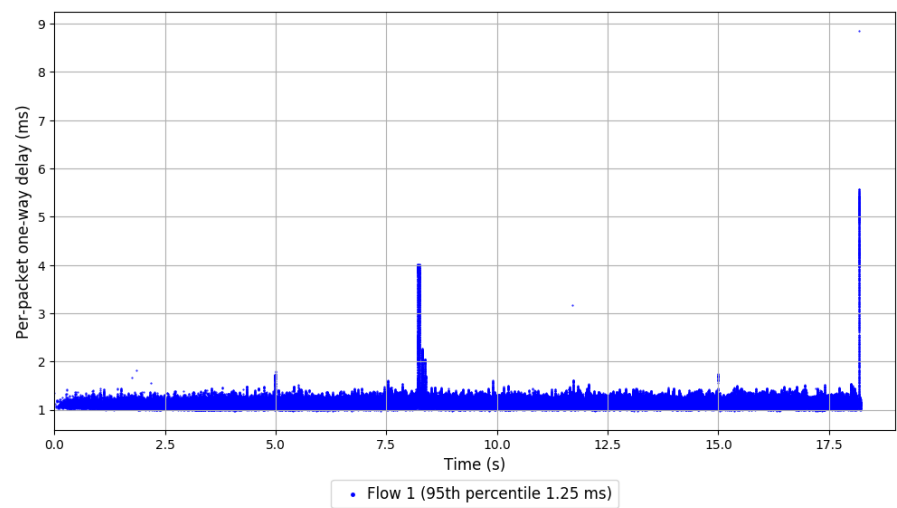
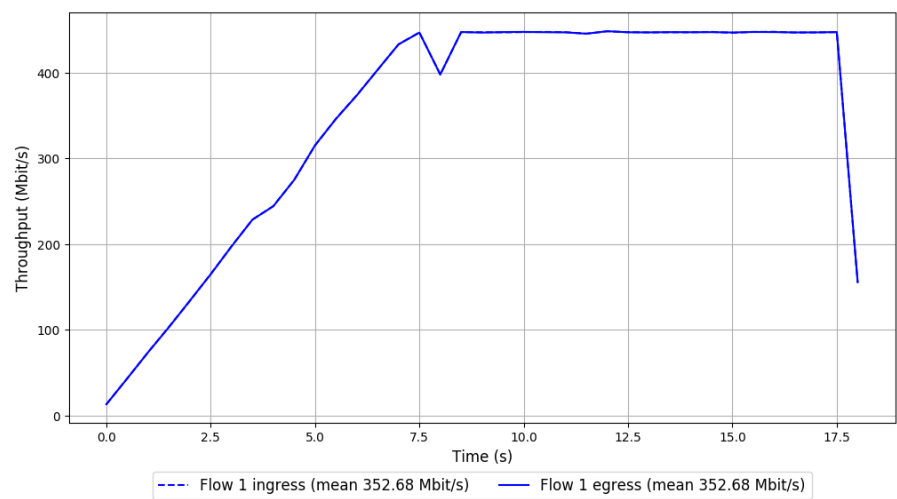
Start at: 2017-11-30 11:54:46

End at: 2017-11-30 11:55:16

Local clock offset: -0.011 ms

Remote clock offset: -1.256 ms

Run 10: Report of LEDBAT — Data Link

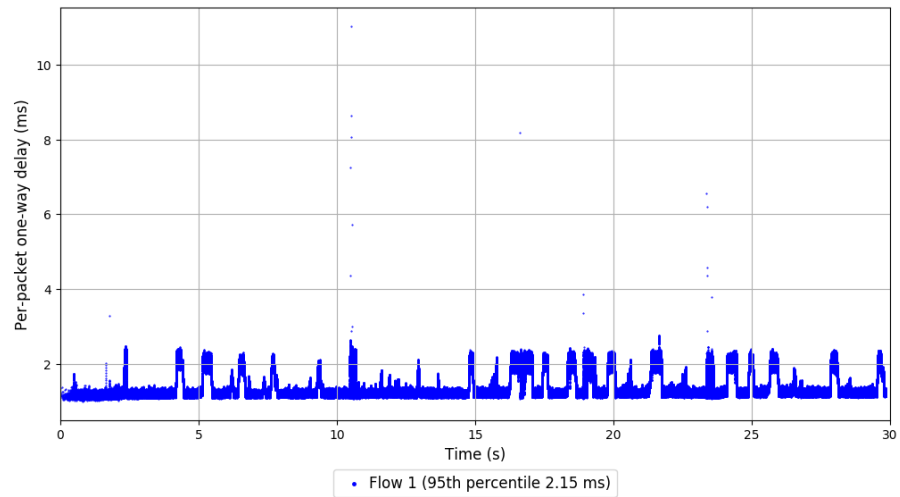
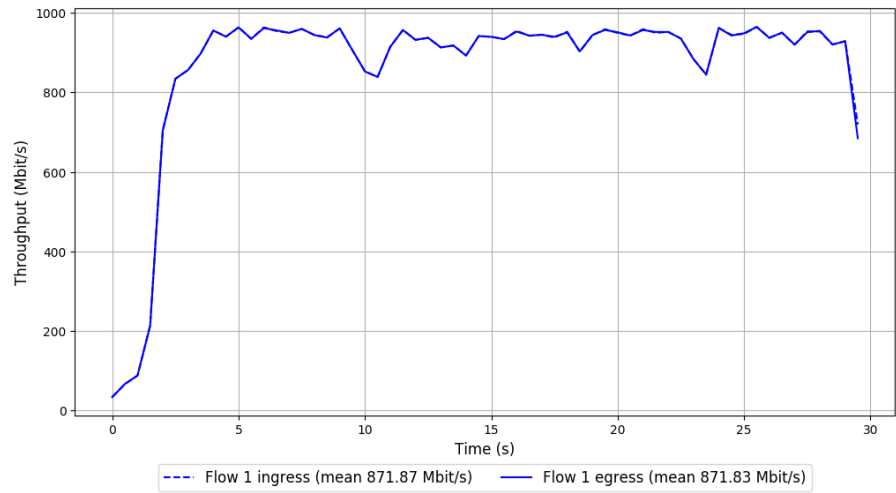


Run 1: Statistics of PCC

Start at: 2017-11-30 09:05:15
End at: 2017-11-30 09:05:45
Local clock offset: 0.034 ms
Remote clock offset: -2.957 ms

Below is generated by plot.py at 2017-11-30 15:48:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 871.83 Mbit/s
95th percentile per-packet one-way delay: 2.148 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 871.83 Mbit/s
95th percentile per-packet one-way delay: 2.148 ms
Loss rate: 0.07%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

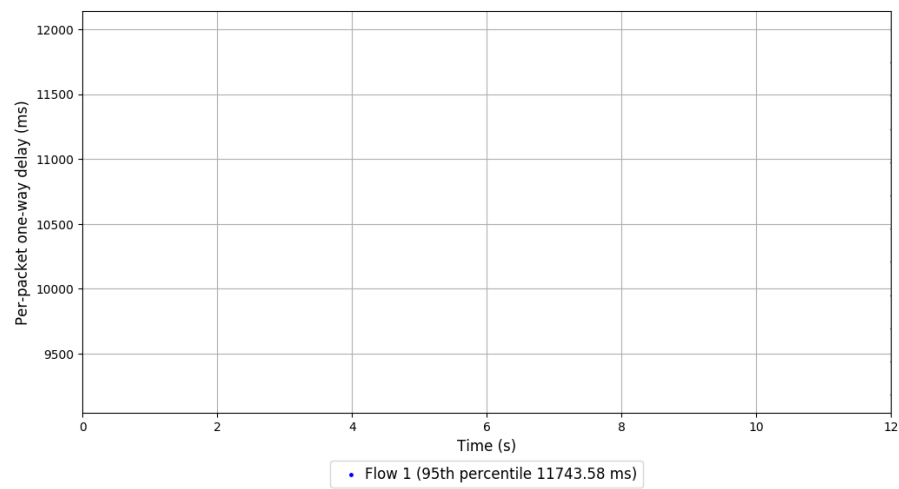
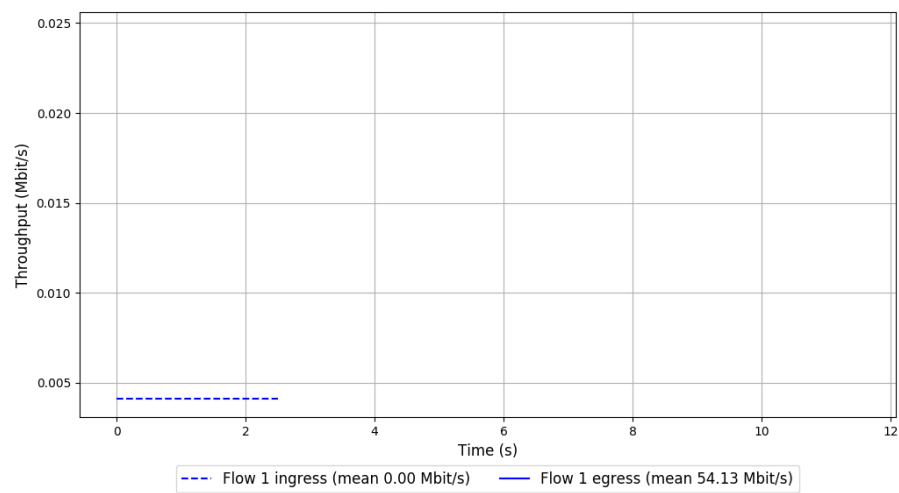
Start at: 2017-11-30 09:24:30

End at: 2017-11-30 09:25:00

Local clock offset: -0.081 ms

Remote clock offset: -2.806 ms

Run 2: Report of PCC — Data Link

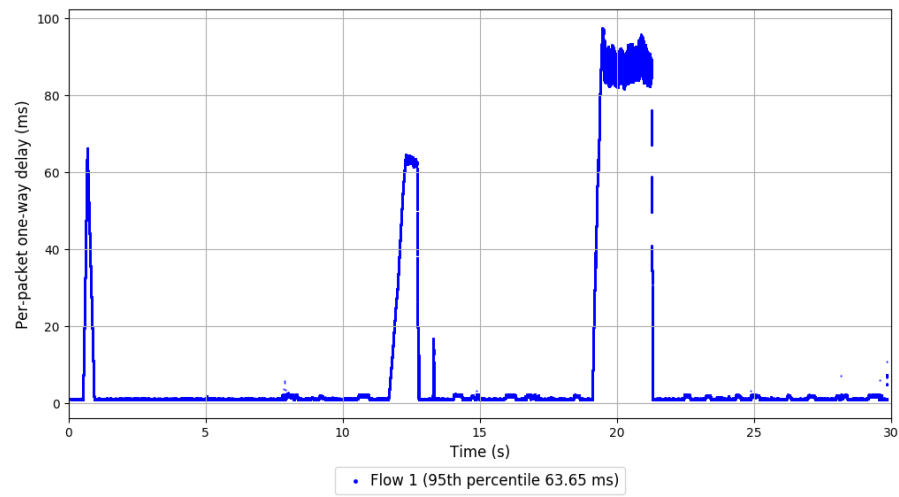
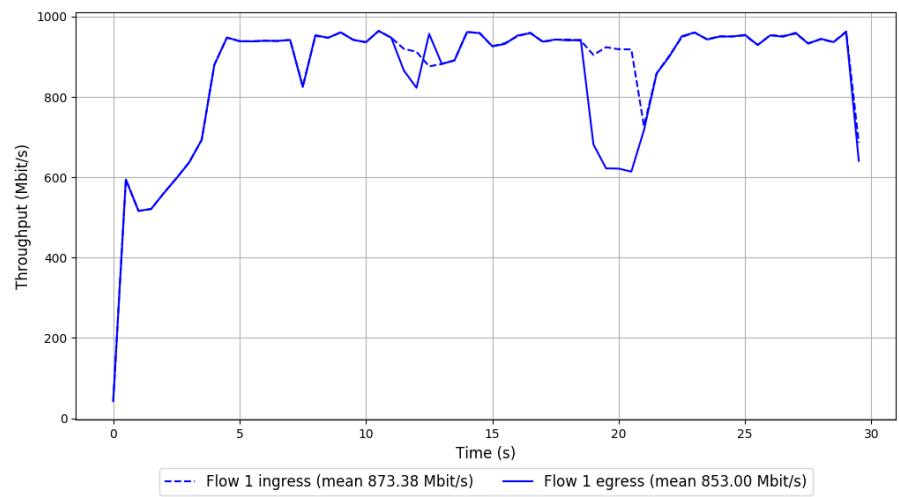


Run 3: Statistics of PCC

Start at: 2017-11-30 09:43:03
End at: 2017-11-30 09:43:33
Local clock offset: -0.186 ms
Remote clock offset: -2.844 ms

Below is generated by plot.py at 2017-11-30 15:49:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 853.00 Mbit/s
95th percentile per-packet one-way delay: 63.654 ms
Loss rate: 2.39%
-- Flow 1:
Average throughput: 853.00 Mbit/s
95th percentile per-packet one-way delay: 63.654 ms
Loss rate: 2.39%

Run 3: Report of PCC — Data Link

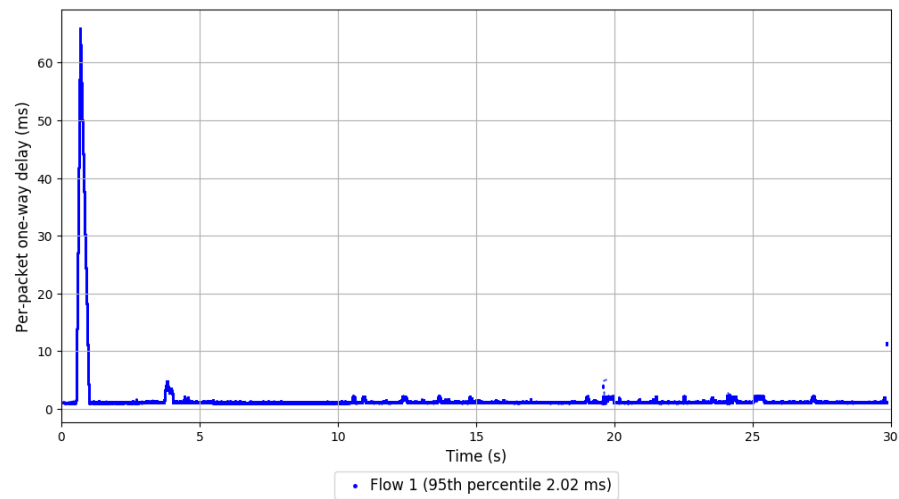
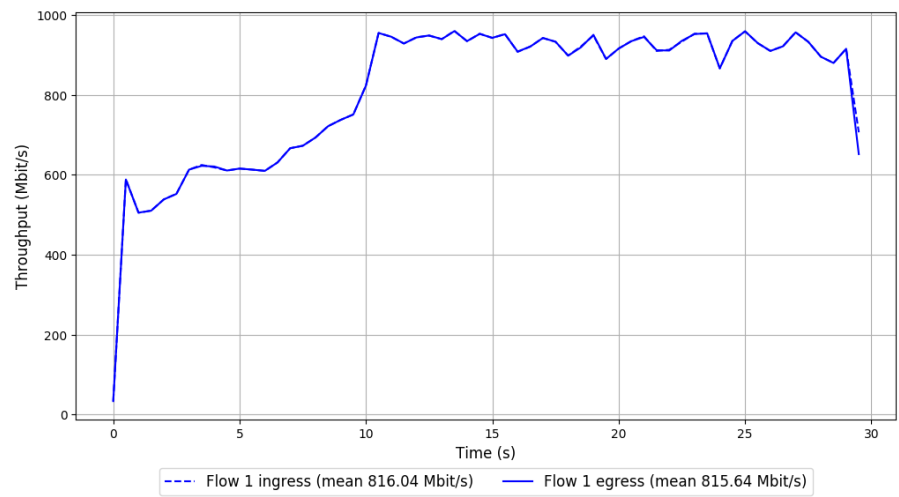


Run 4: Statistics of PCC

Start at: 2017-11-30 10:01:57
End at: 2017-11-30 10:02:27
Local clock offset: -0.308 ms
Remote clock offset: -2.334 ms

Below is generated by plot.py at 2017-11-30 15:49:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 815.64 Mbit/s
95th percentile per-packet one-way delay: 2.021 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 815.64 Mbit/s
95th percentile per-packet one-way delay: 2.021 ms
Loss rate: 0.12%

Run 4: Report of PCC — Data Link

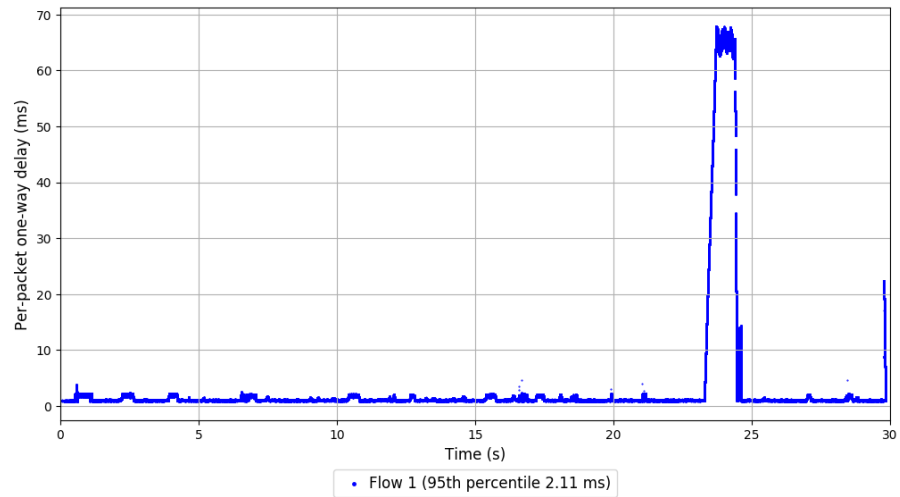
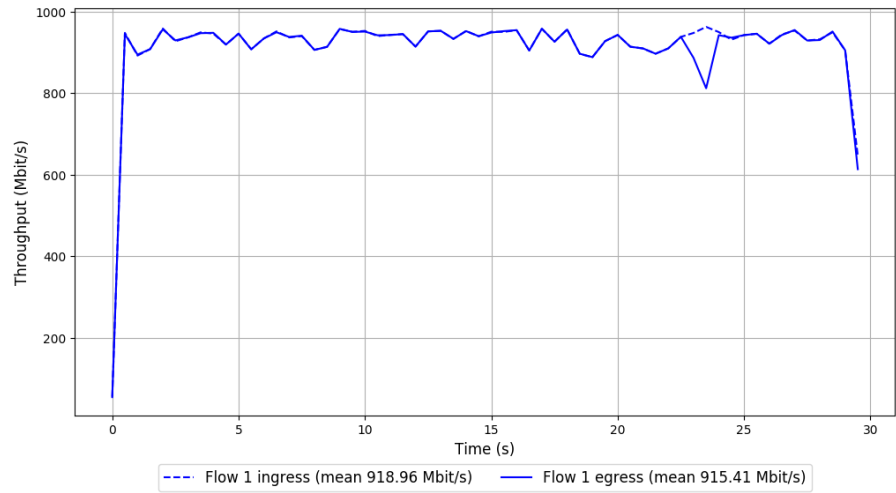


Run 5: Statistics of PCC

Start at: 2017-11-30 10:20:49
End at: 2017-11-30 10:21:19
Local clock offset: -0.36 ms
Remote clock offset: -1.545 ms

Below is generated by plot.py at 2017-11-30 15:50:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 915.41 Mbit/s
95th percentile per-packet one-way delay: 2.114 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 915.41 Mbit/s
95th percentile per-packet one-way delay: 2.114 ms
Loss rate: 0.45%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

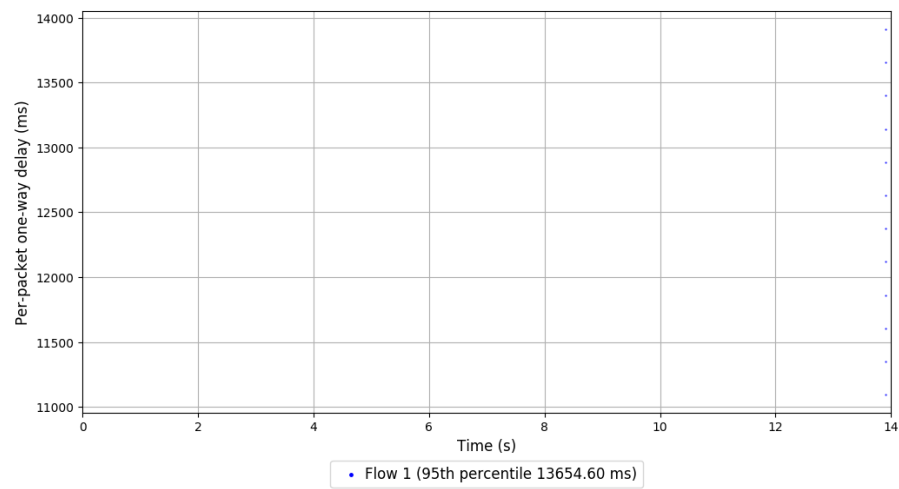
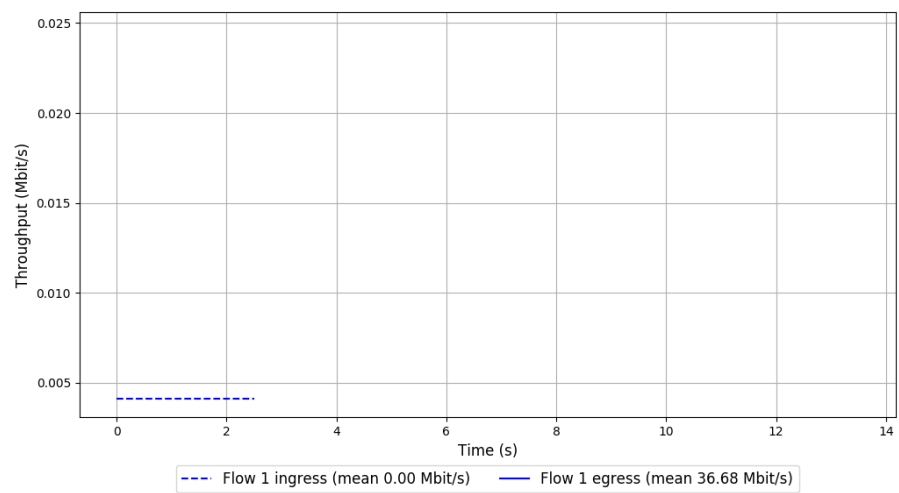
Start at: 2017-11-30 10:40:17

End at: 2017-11-30 10:40:47

Local clock offset: -0.256 ms

Remote clock offset: -1.742 ms

Run 6: Report of PCC — Data Link

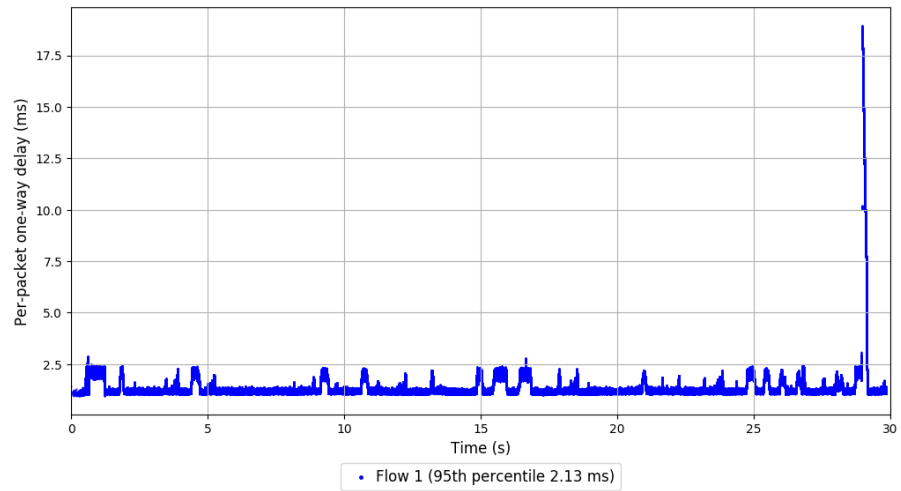
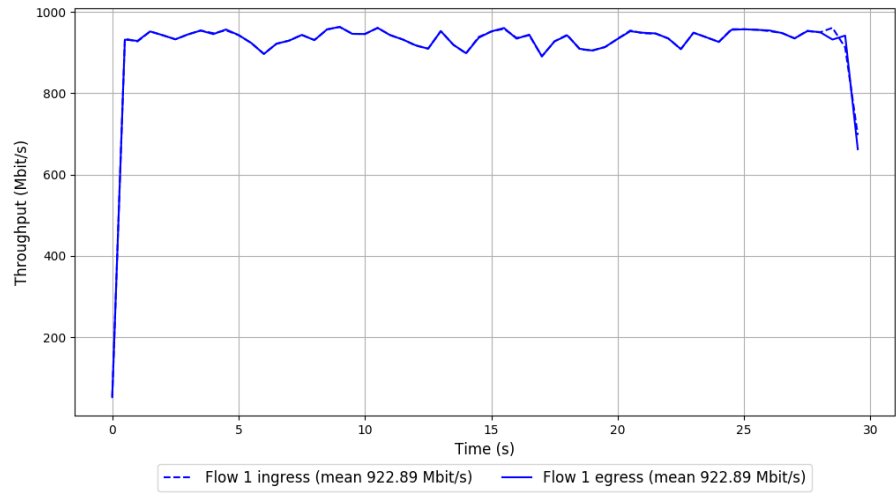


Run 7: Statistics of PCC

Start at: 2017-11-30 10:58:59
End at: 2017-11-30 10:59:29
Local clock offset: -0.24 ms
Remote clock offset: -1.635 ms

Below is generated by plot.py at 2017-11-30 15:51:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 922.89 Mbit/s
95th percentile per-packet one-way delay: 2.129 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 922.89 Mbit/s
95th percentile per-packet one-way delay: 2.129 ms
Loss rate: 0.07%

Run 7: Report of PCC — Data Link

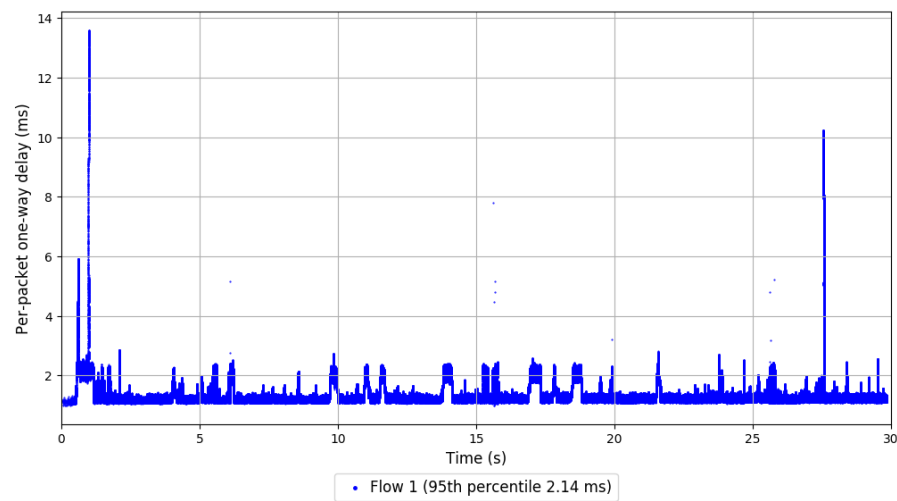
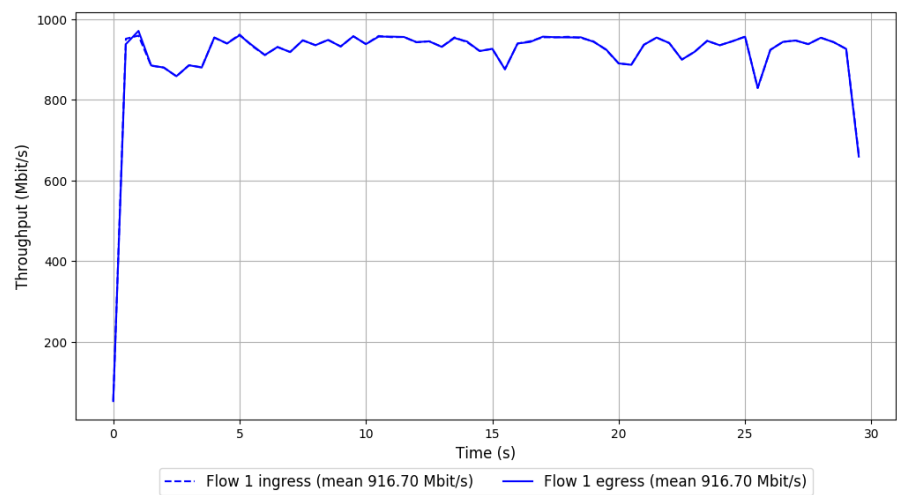


Run 8: Statistics of PCC

Start at: 2017-11-30 11:17:55
End at: 2017-11-30 11:18:25
Local clock offset: -0.193 ms
Remote clock offset: -1.648 ms

Below is generated by plot.py at 2017-11-30 15:51:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 916.70 Mbit/s
95th percentile per-packet one-way delay: 2.143 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 916.70 Mbit/s
95th percentile per-packet one-way delay: 2.143 ms
Loss rate: 0.01%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

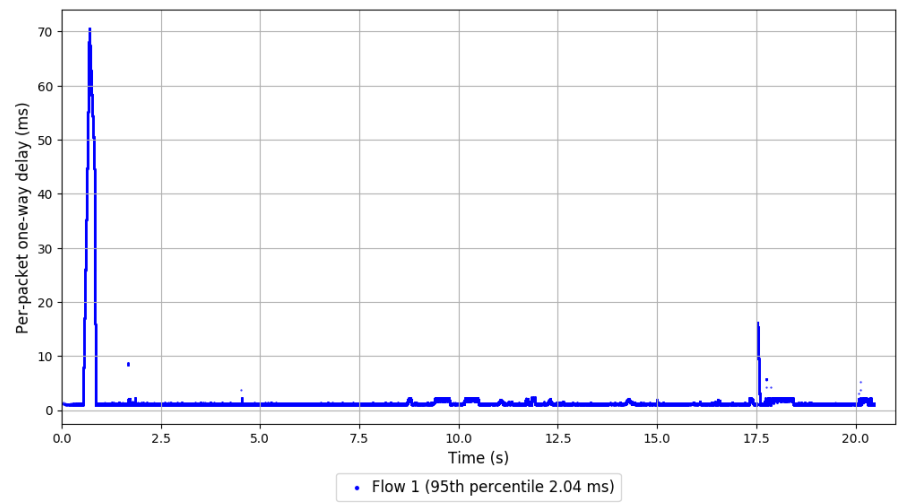
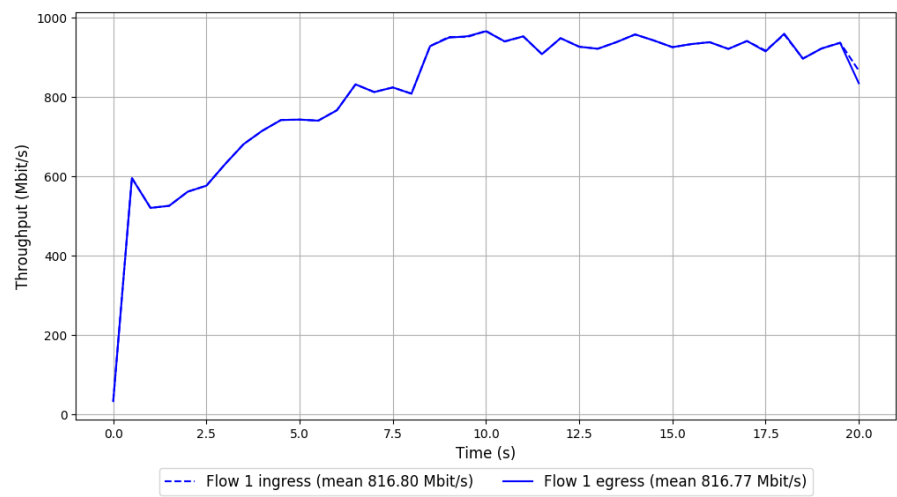
Start at: 2017-11-30 11:37:20

End at: 2017-11-30 11:37:50

Local clock offset: -0.18 ms

Remote clock offset: -1.346 ms

Run 9: Report of PCC — Data Link

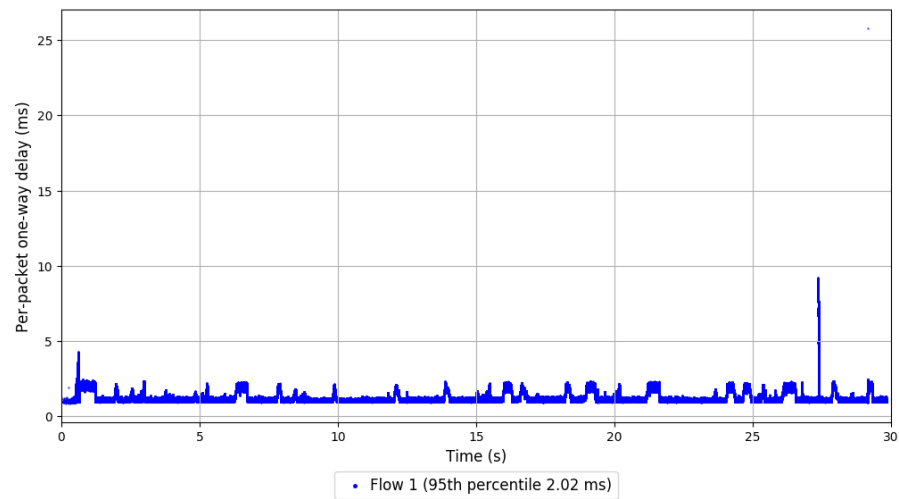
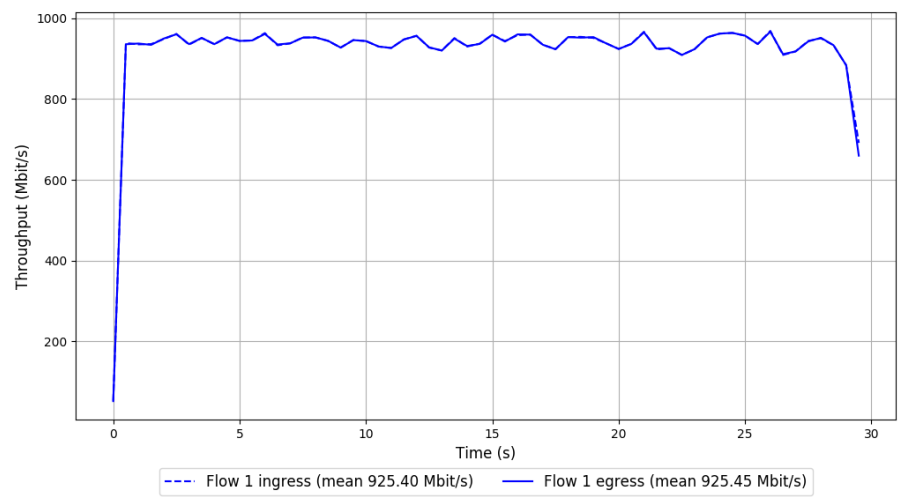


Run 10: Statistics of PCC

Start at: 2017-11-30 11:56:07
End at: 2017-11-30 11:56:37
Local clock offset: -0.103 ms
Remote clock offset: -1.228 ms

Below is generated by plot.py at 2017-11-30 15:52:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 925.45 Mbit/s
95th percentile per-packet one-way delay: 2.024 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 925.45 Mbit/s
95th percentile per-packet one-way delay: 2.024 ms
Loss rate: 0.06%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2017-11-30 08:51:40

End at: 2017-11-30 08:52:10

Local clock offset: 0.049 ms

Remote clock offset: -3.381 ms

Below is generated by plot.py at 2017-11-30 15:52:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.82 Mbit/s

95th percentile per-packet one-way delay: 1.099 ms

Loss rate: 0.07%

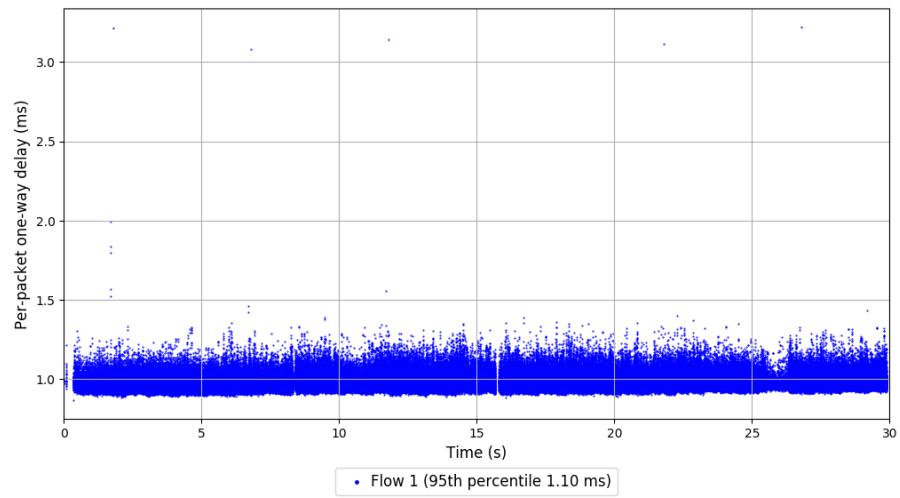
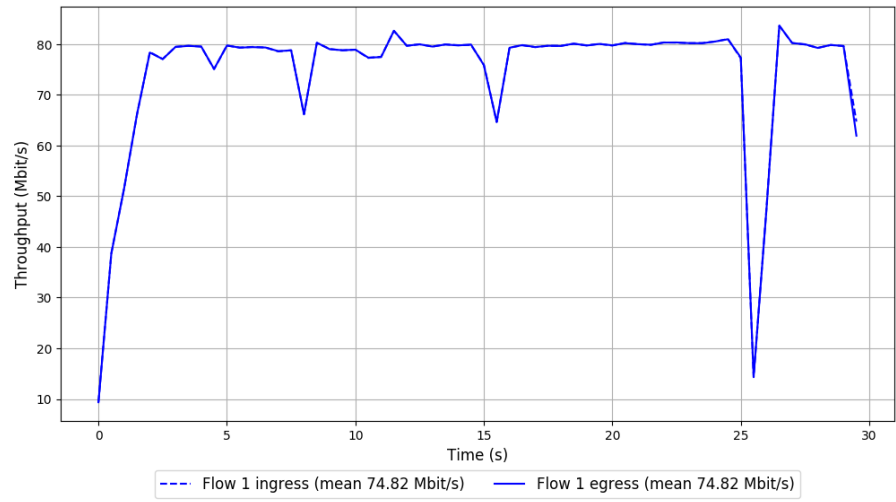
-- Flow 1:

Average throughput: 74.82 Mbit/s

95th percentile per-packet one-way delay: 1.099 ms

Loss rate: 0.07%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-11-30 09:10:39

End at: 2017-11-30 09:11:09

Local clock offset: -0.09 ms

Remote clock offset: -2.746 ms

Below is generated by plot.py at 2017-11-30 15:52:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.45 Mbit/s

95th percentile per-packet one-way delay: 1.100 ms

Loss rate: 0.06%

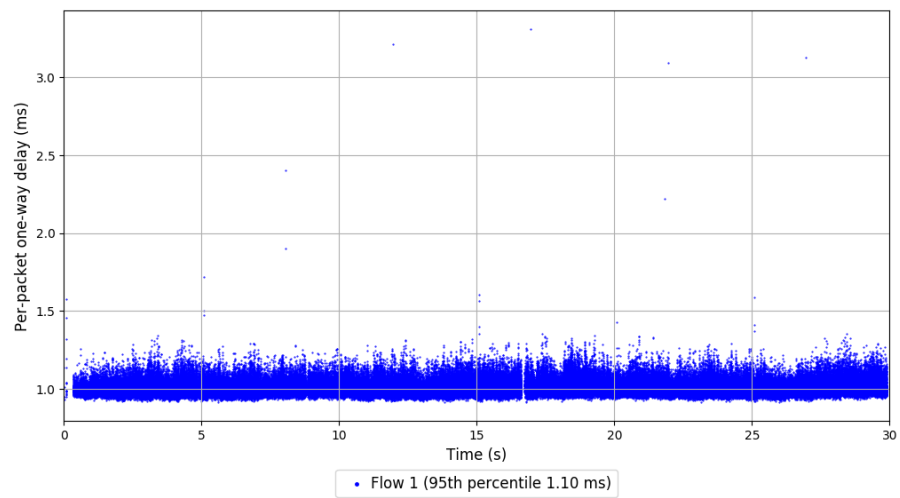
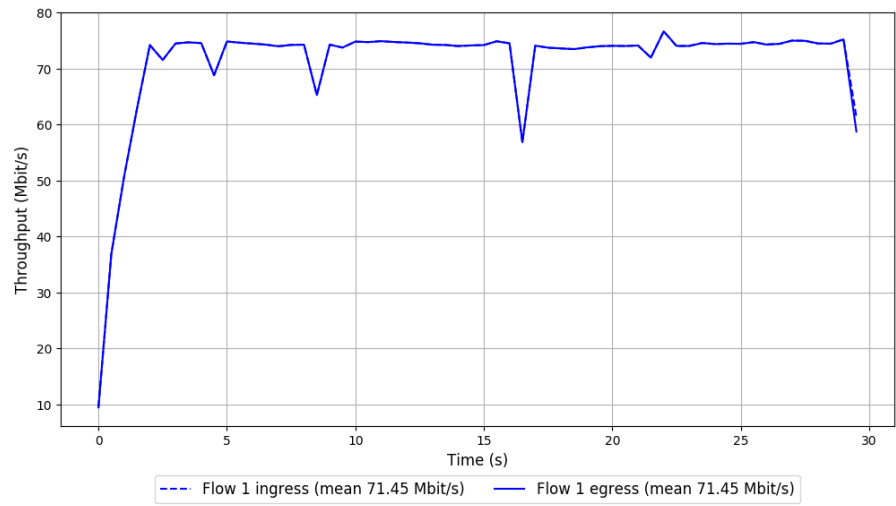
-- Flow 1:

Average throughput: 71.45 Mbit/s

95th percentile per-packet one-way delay: 1.100 ms

Loss rate: 0.06%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-11-30 09:29:32

End at: 2017-11-30 09:30:02

Local clock offset: -0.221 ms

Remote clock offset: -2.815 ms

Below is generated by plot.py at 2017-11-30 15:52:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.39 Mbit/s

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

Loss rate: 0.07%

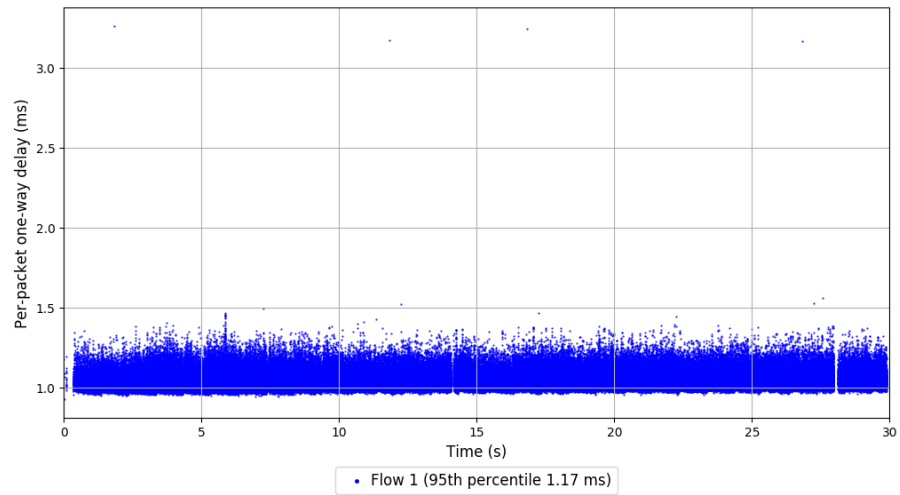
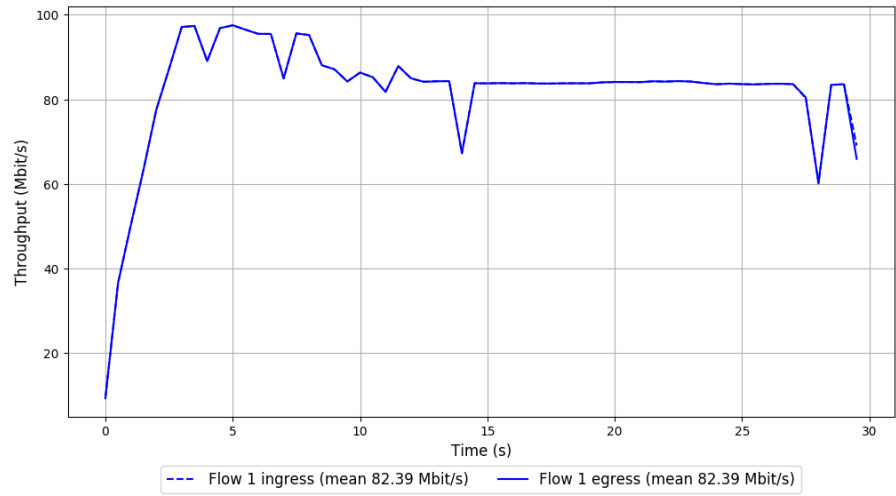
-- Flow 1:

Average throughput: 82.39 Mbit/s

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

Loss rate: 0.07%

Run 3: Report of QUIC Cubic — Data Link

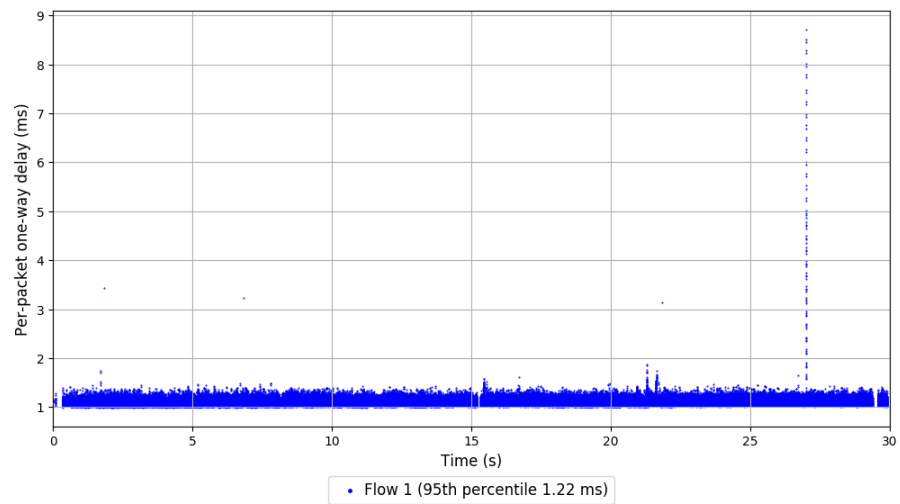
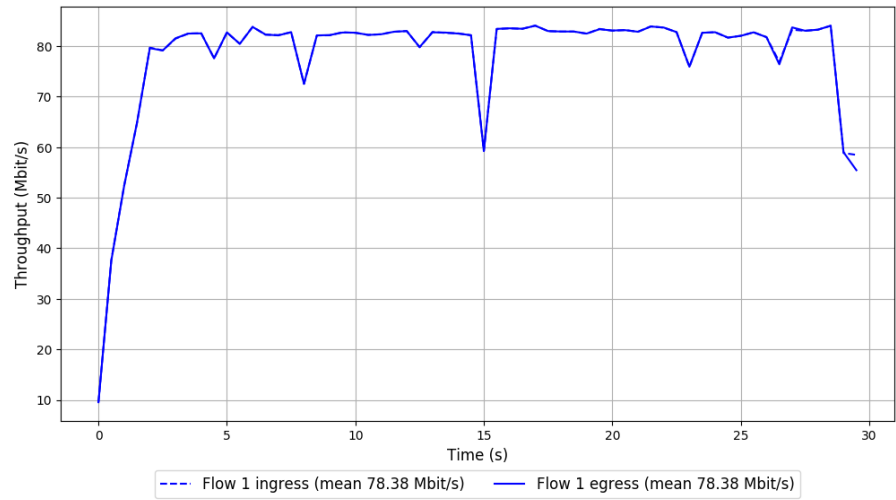


Run 4: Statistics of QUIC Cubic

Start at: 2017-11-30 09:48:29
End at: 2017-11-30 09:48:59
Local clock offset: -0.192 ms
Remote clock offset: -2.748 ms

Below is generated by plot.py at 2017-11-30 15:52:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 78.38 Mbit/s
95th percentile per-packet one-way delay: 1.218 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 78.38 Mbit/s
95th percentile per-packet one-way delay: 1.218 ms
Loss rate: 0.06%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-11-30 10:07:16

End at: 2017-11-30 10:07:46

Local clock offset: -0.24 ms

Remote clock offset: -2.104 ms

Below is generated by plot.py at 2017-11-30 15:52:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.51 Mbit/s

95th percentile per-packet one-way delay: 1.256 ms

Loss rate: 0.08%

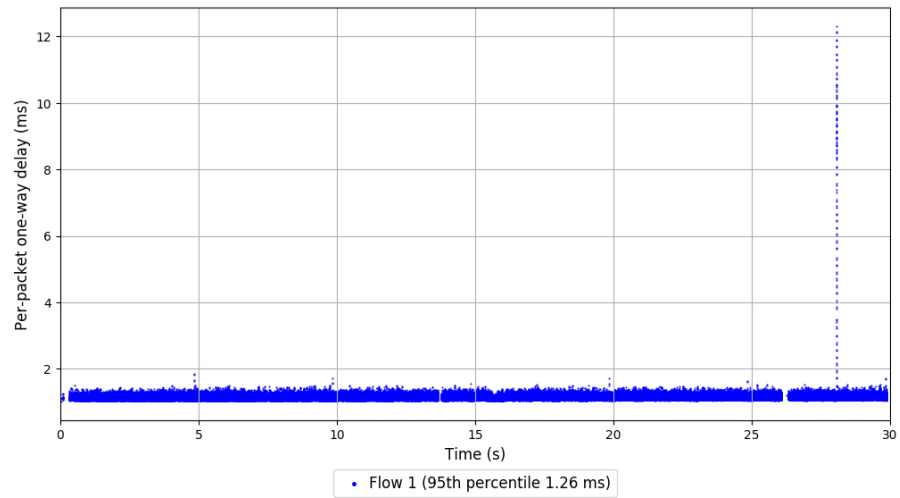
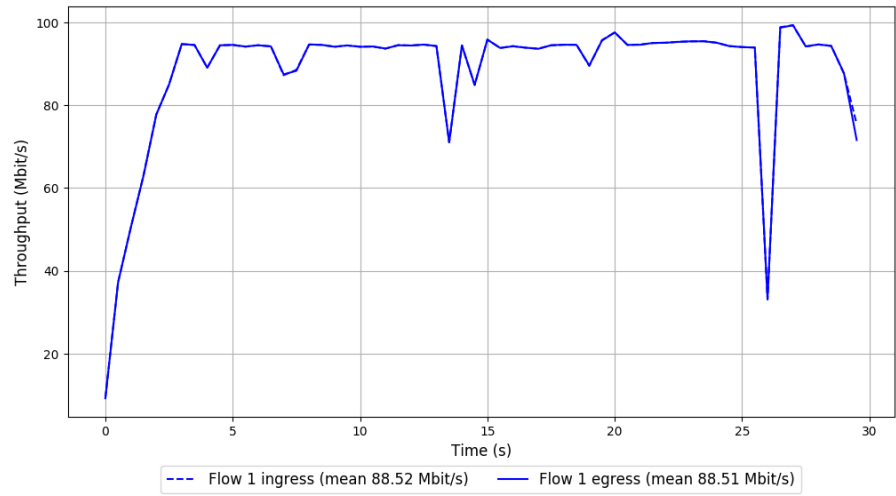
-- Flow 1:

Average throughput: 88.51 Mbit/s

95th percentile per-packet one-way delay: 1.256 ms

Loss rate: 0.08%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-11-30 10:26:13

End at: 2017-11-30 10:26:43

Local clock offset: -0.36 ms

Remote clock offset: -1.681 ms

Below is generated by plot.py at 2017-11-30 15:52:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.49 Mbit/s

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

Loss rate: 0.07%

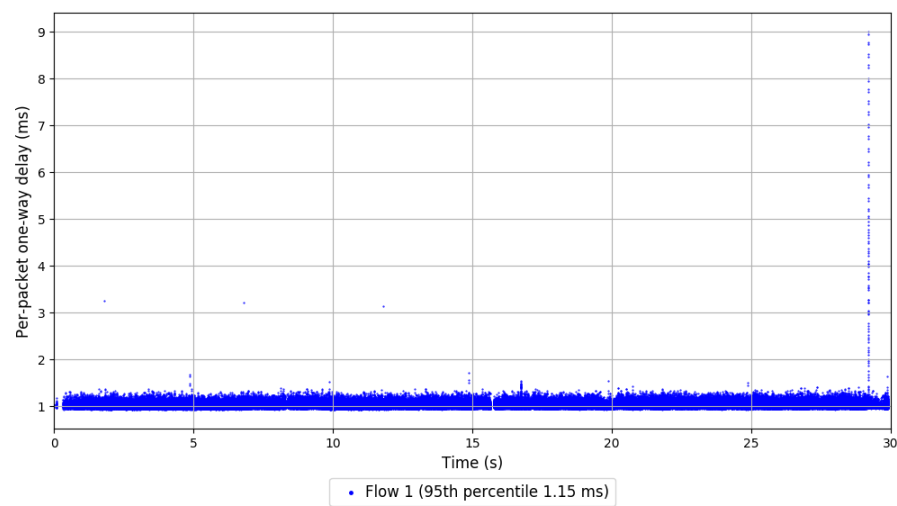
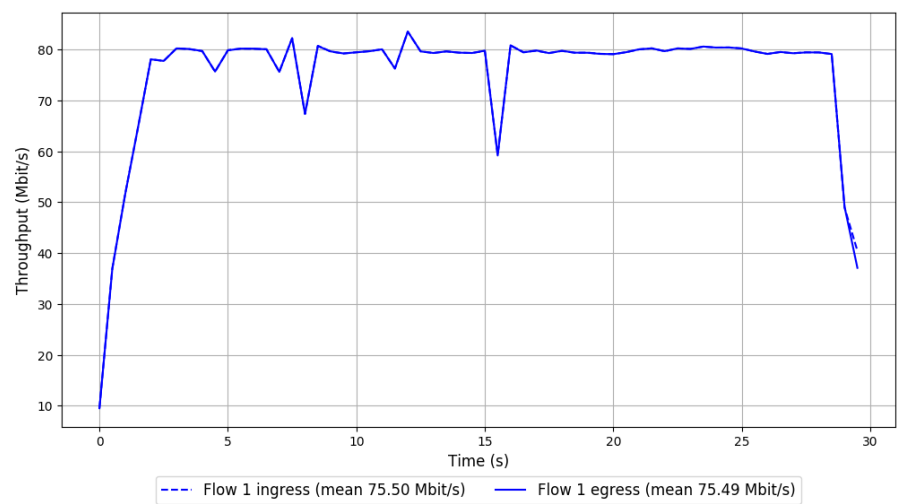
-- Flow 1:

Average throughput: 75.49 Mbit/s

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

Loss rate: 0.07%

Run 6: Report of QUIC Cubic — Data Link

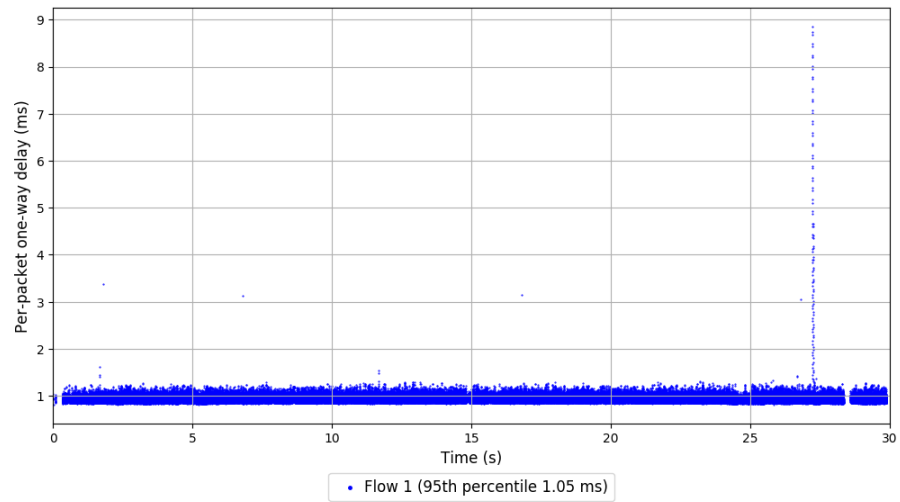
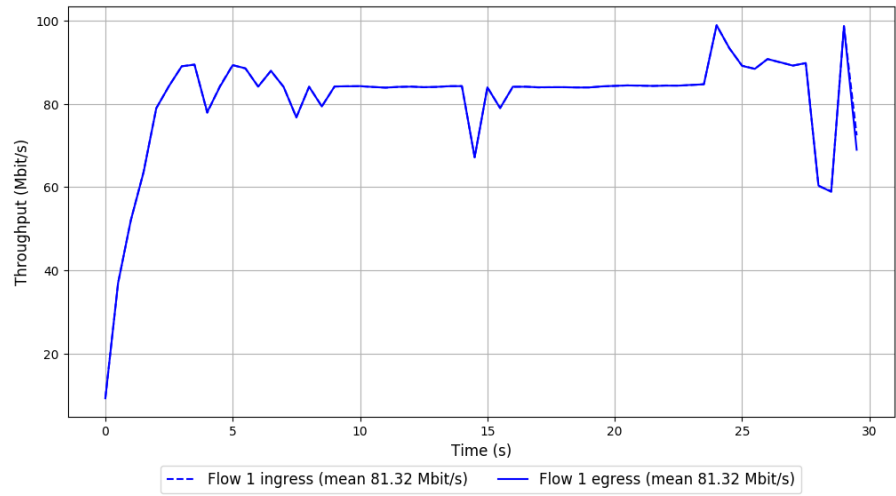


Run 7: Statistics of QUIC Cubic

Start at: 2017-11-30 10:45:15
End at: 2017-11-30 10:45:45
Local clock offset: -0.367 ms
Remote clock offset: -1.679 ms

Below is generated by plot.py at 2017-11-30 15:52:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 81.32 Mbit/s
95th percentile per-packet one-way delay: 1.052 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 81.32 Mbit/s
95th percentile per-packet one-way delay: 1.052 ms
Loss rate: 0.07%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-11-30 11:04:22

End at: 2017-11-30 11:04:52

Local clock offset: -0.311 ms

Remote clock offset: -1.607 ms

Below is generated by plot.py at 2017-11-30 15:52:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.66 Mbit/s

95th percentile per-packet one-way delay: 1.003 ms

Loss rate: 0.07%

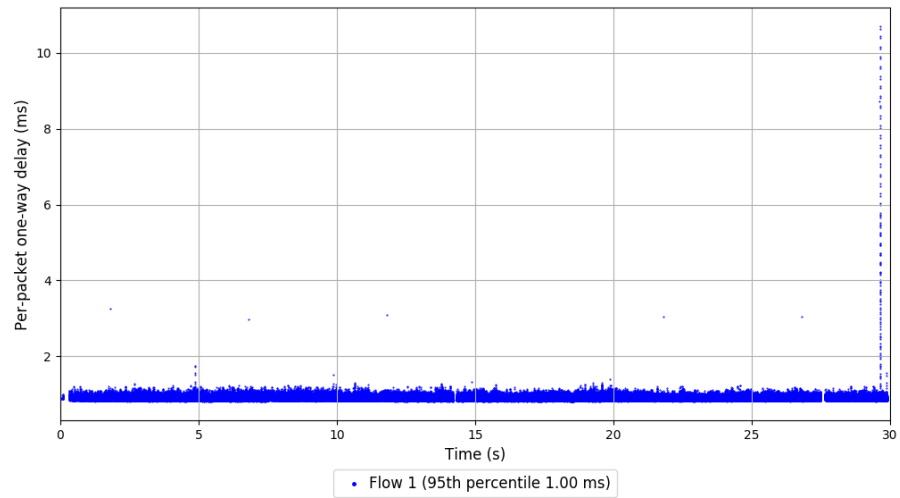
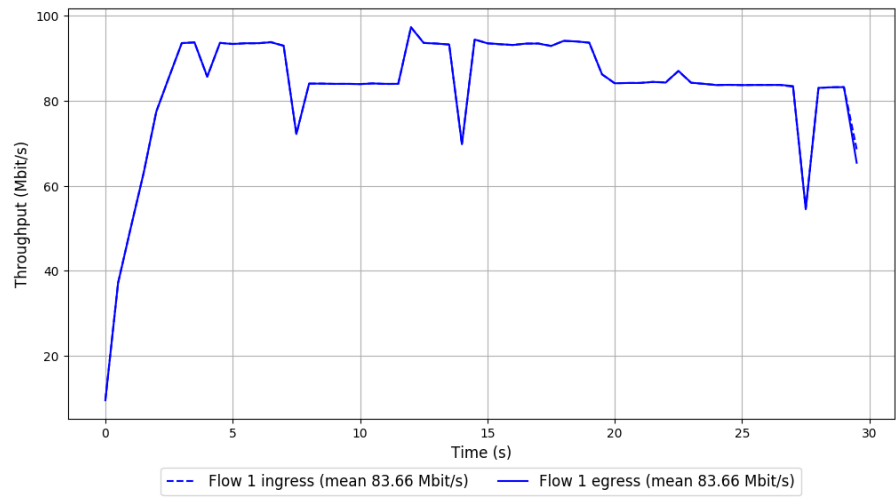
-- Flow 1:

Average throughput: 83.66 Mbit/s

95th percentile per-packet one-way delay: 1.003 ms

Loss rate: 0.07%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-11-30 11:23:23

End at: 2017-11-30 11:23:53

Local clock offset: -0.276 ms

Remote clock offset: -1.438 ms

Below is generated by plot.py at 2017-11-30 15:52:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.47 Mbit/s

95th percentile per-packet one-way delay: 1.046 ms

Loss rate: 0.08%

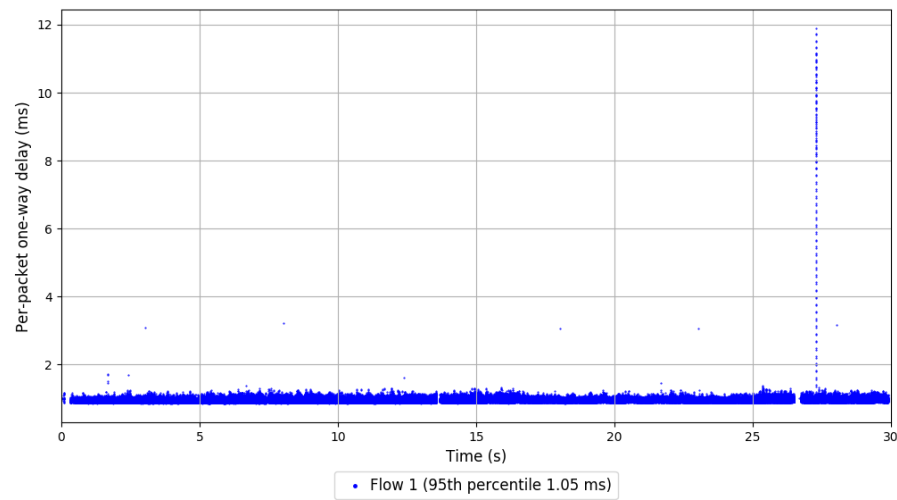
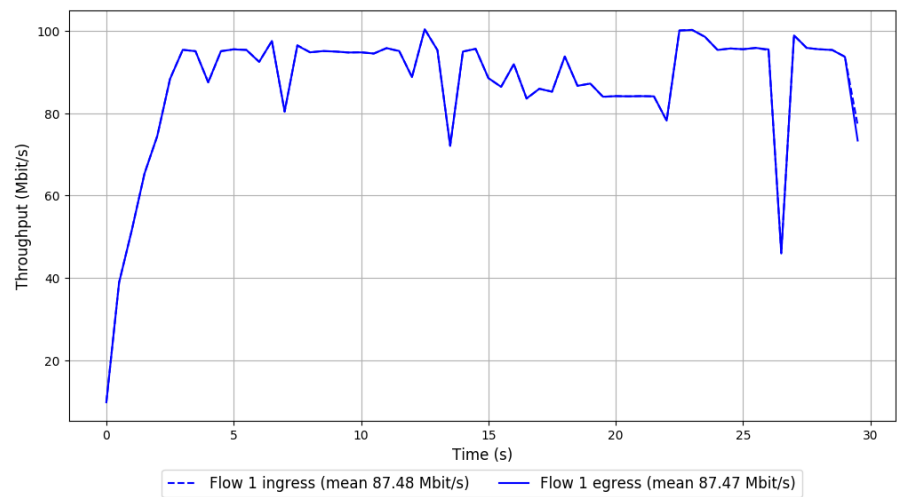
-- Flow 1:

Average throughput: 87.47 Mbit/s

95th percentile per-packet one-way delay: 1.046 ms

Loss rate: 0.08%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-11-30 11:42:32

End at: 2017-11-30 11:43:02

Local clock offset: -0.148 ms

Remote clock offset: -1.335 ms

Below is generated by plot.py at 2017-11-30 15:52:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.55 Mbit/s

95th percentile per-packet one-way delay: 1.195 ms

Loss rate: 0.00%

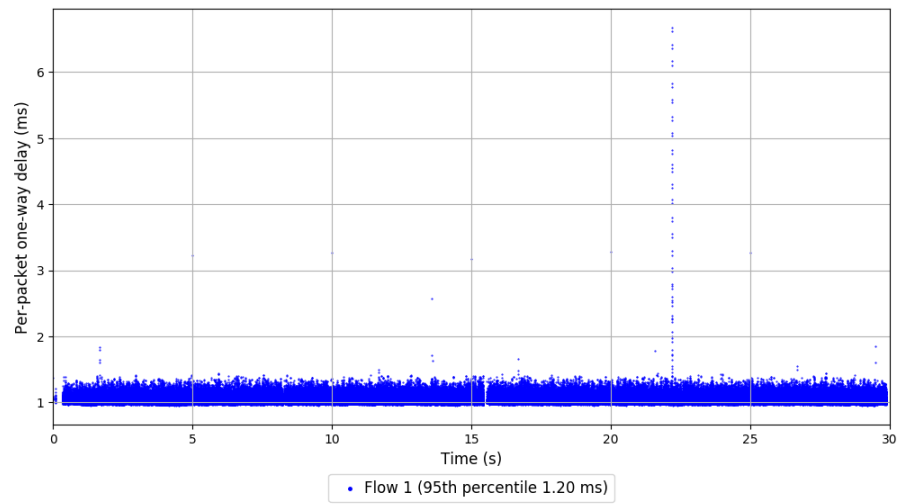
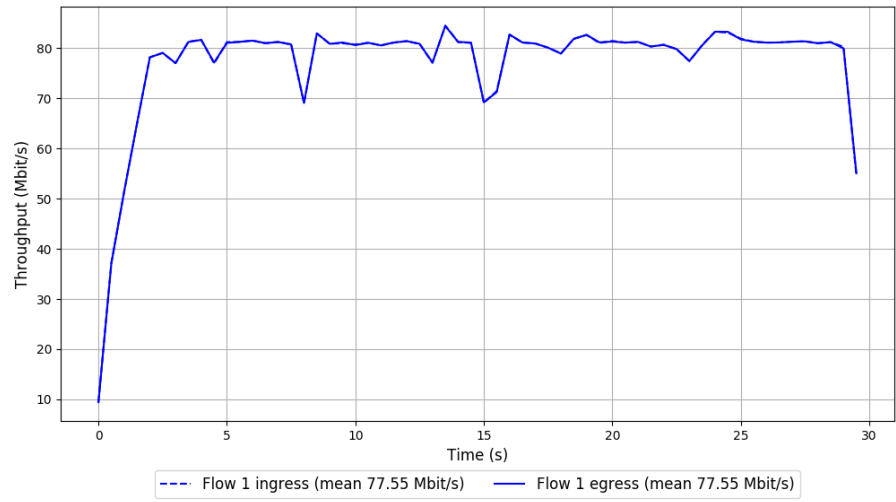
-- Flow 1:

Average throughput: 77.55 Mbit/s

95th percentile per-packet one-way delay: 1.195 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

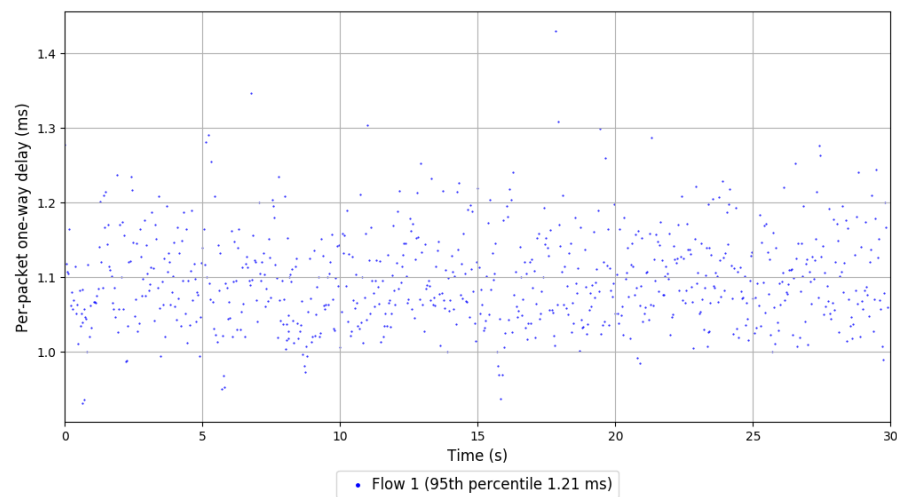
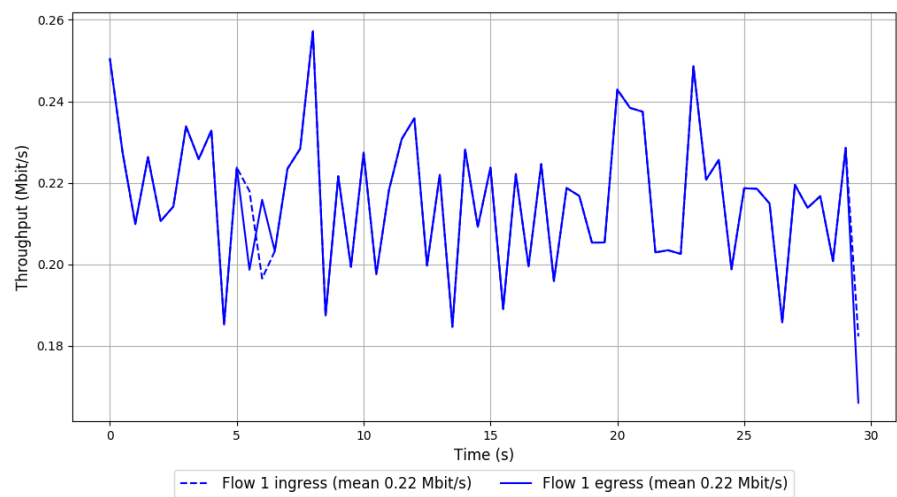


Run 1: Statistics of SCReAM

Start at: 2017-11-30 08:55:30
End at: 2017-11-30 08:56:00
Local clock offset: 0.008 ms
Remote clock offset: -3.221 ms

Below is generated by plot.py at 2017-11-30 15:52:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.210 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.210 ms
Loss rate: 0.13%

Run 1: Report of SReAM — Data Link

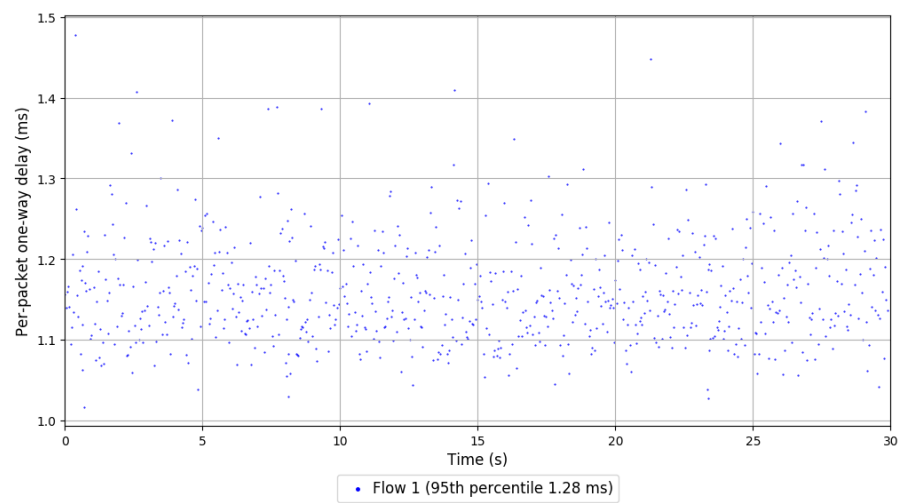
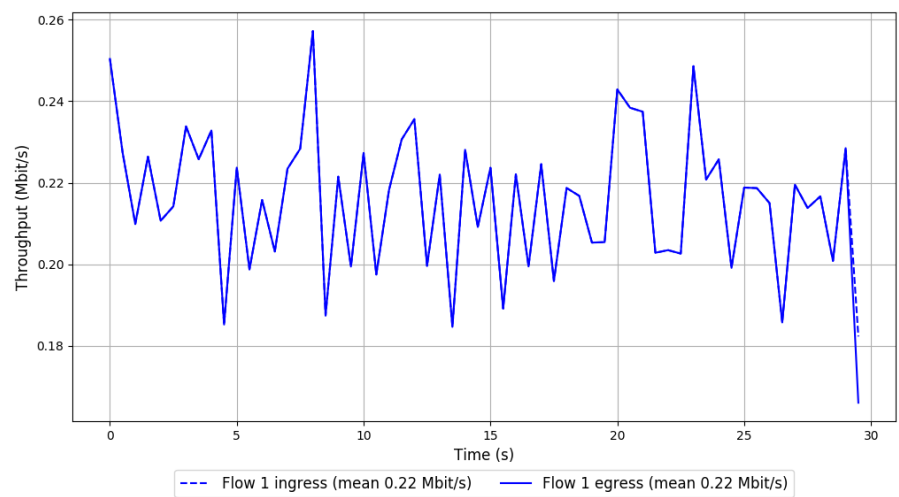


Run 2: Statistics of SCReAM

Start at: 2017-11-30 09:14:30
End at: 2017-11-30 09:15:00
Local clock offset: -0.12 ms
Remote clock offset: -2.769 ms

Below is generated by plot.py at 2017-11-30 15:52:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.281 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.281 ms
Loss rate: 0.13%

Run 2: Report of SReAM — Data Link

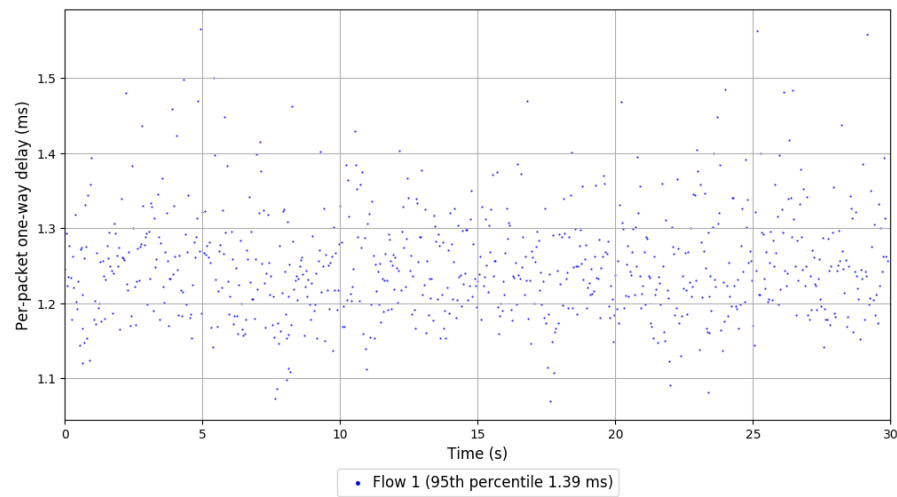
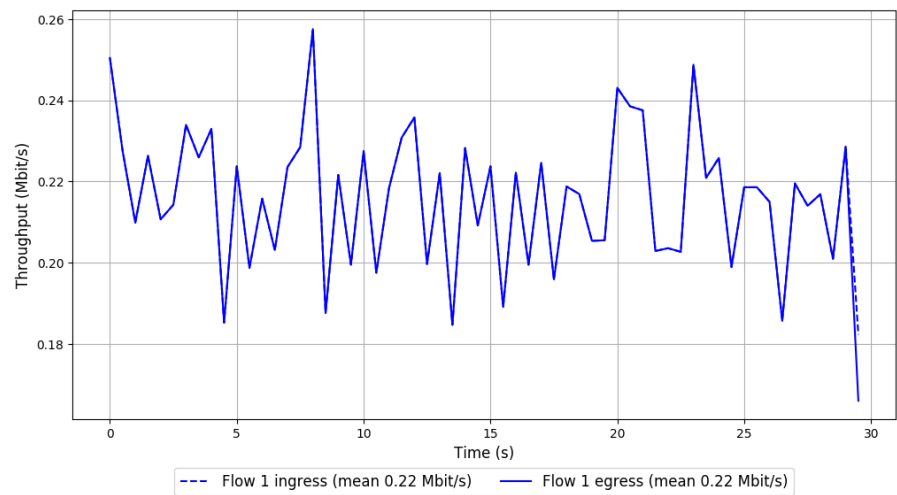


Run 3: Statistics of SCReAM

Start at: 2017-11-30 09:33:23
End at: 2017-11-30 09:33:53
Local clock offset: -0.171 ms
Remote clock offset: -2.801 ms

Below is generated by plot.py at 2017-11-30 15:52:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.385 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.385 ms
Loss rate: 0.13%

Run 3: Report of SReAM — Data Link

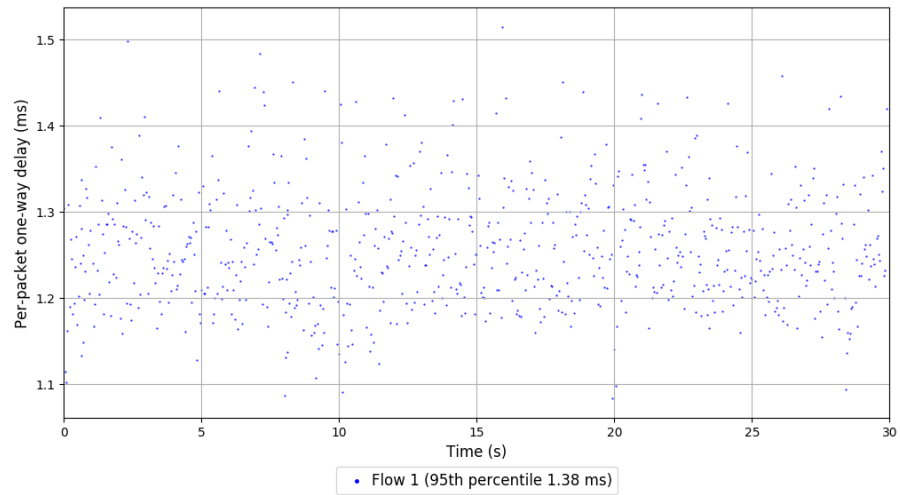
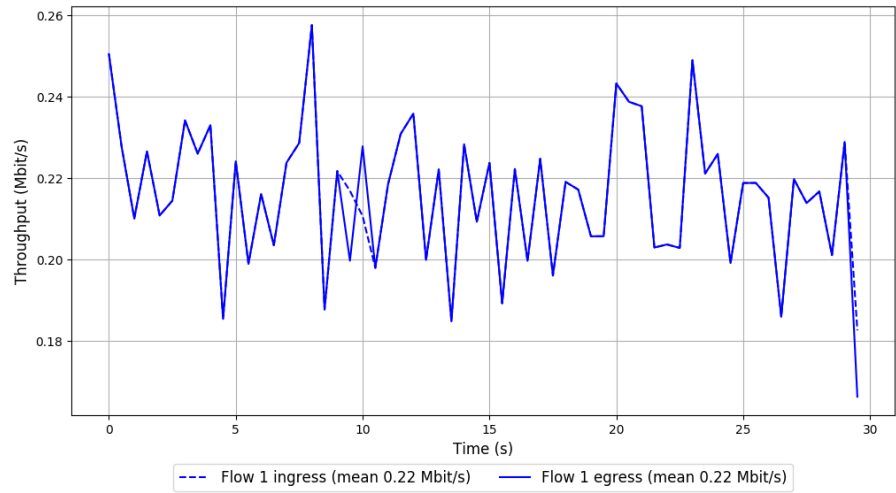


Run 4: Statistics of SCReAM

Start at: 2017-11-30 09:52:21
End at: 2017-11-30 09:52:51
Local clock offset: -0.193 ms
Remote clock offset: -2.638 ms

Below is generated by plot.py at 2017-11-30 15:52:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.381 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.381 ms
Loss rate: 0.13%

Run 4: Report of SReAM — Data Link

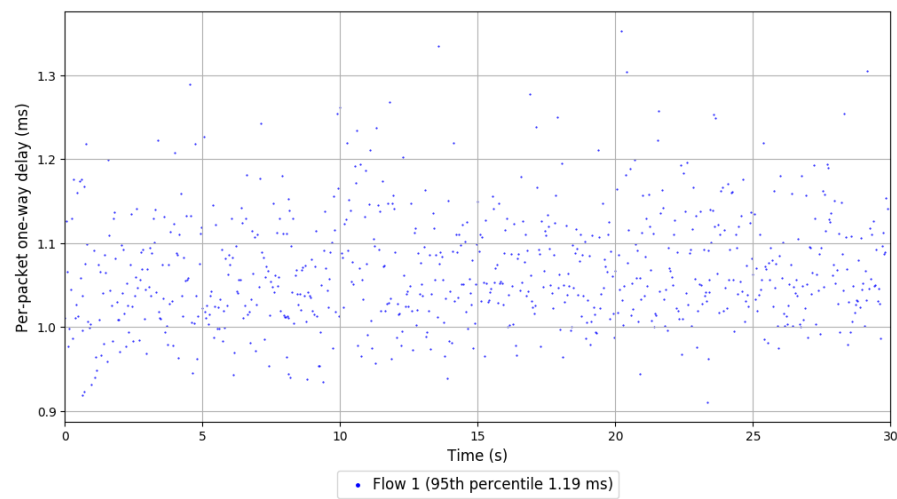
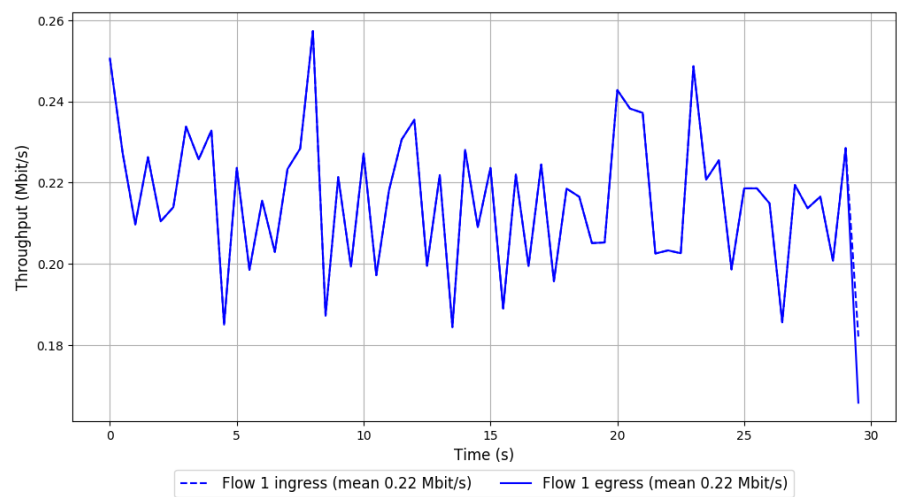


Run 5: Statistics of SCReAM

Start at: 2017-11-30 10:11:08
End at: 2017-11-30 10:11:38
Local clock offset: -0.366 ms
Remote clock offset: -1.874 ms

Below is generated by plot.py at 2017-11-30 15:52:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.192 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.192 ms
Loss rate: 0.13%

Run 5: Report of SReAM — Data Link

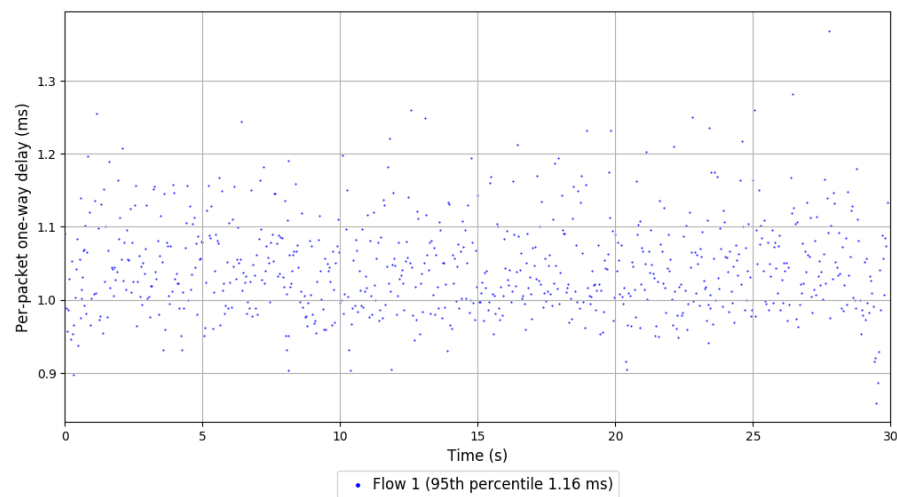
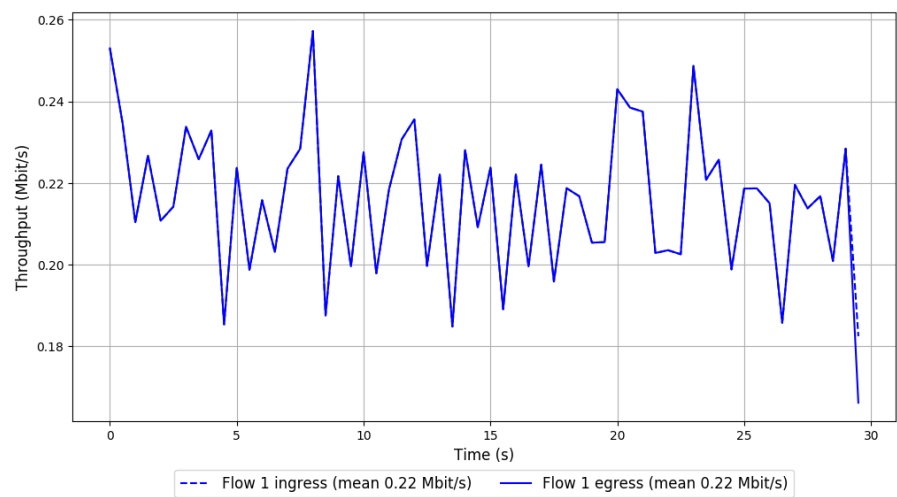


Run 6: Statistics of SCReAM

Start at: 2017-11-30 10:30:05
End at: 2017-11-30 10:30:35
Local clock offset: -0.359 ms
Remote clock offset: -1.622 ms

Below is generated by plot.py at 2017-11-30 15:52:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.164 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.164 ms
Loss rate: 0.13%

Run 6: Report of SReAM — Data Link

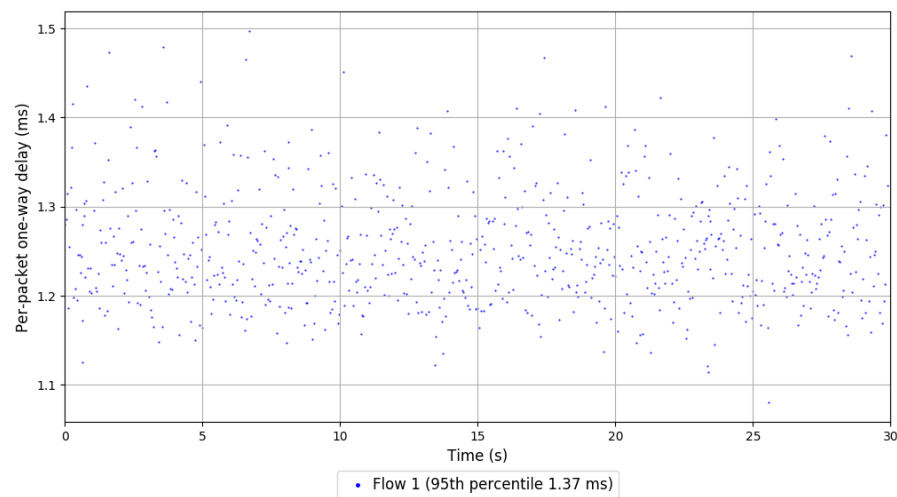
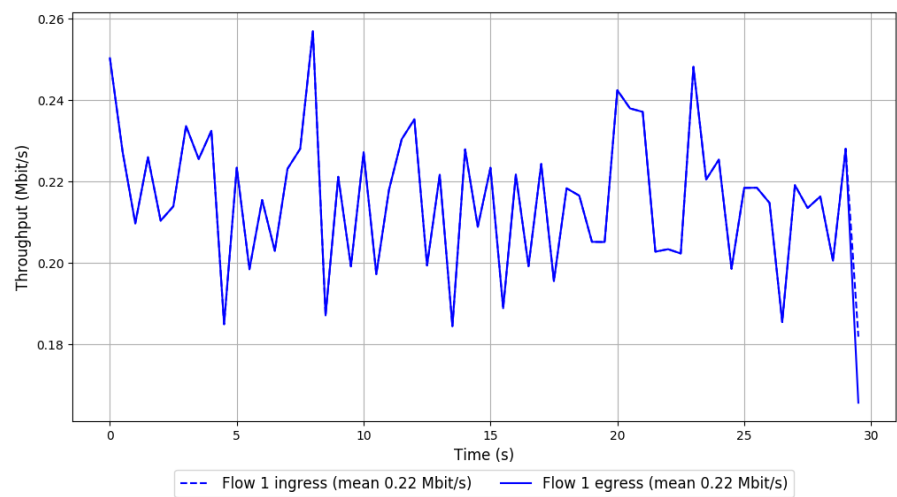


Run 7: Statistics of SCReAM

Start at: 2017-11-30 10:49:06
End at: 2017-11-30 10:49:36
Local clock offset: -0.258 ms
Remote clock offset: -1.742 ms

Below is generated by plot.py at 2017-11-30 15:52:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.371 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.371 ms
Loss rate: 0.13%

Run 7: Report of SReAM — Data Link

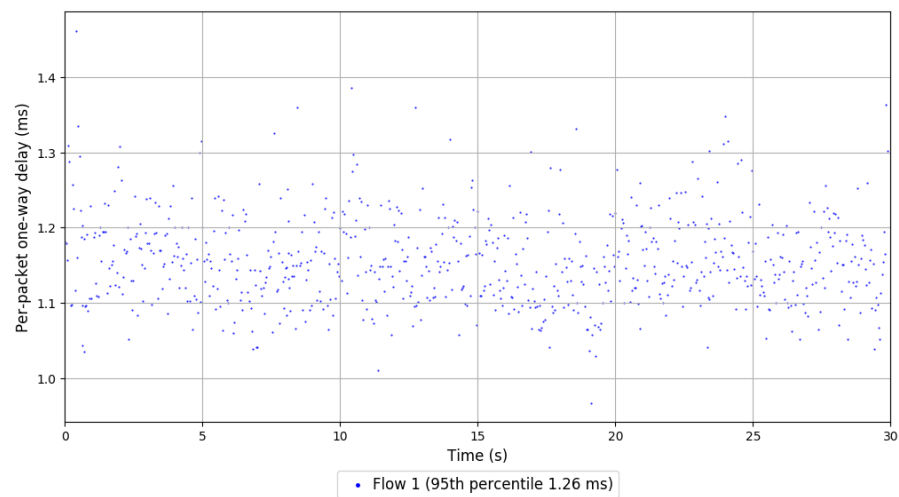
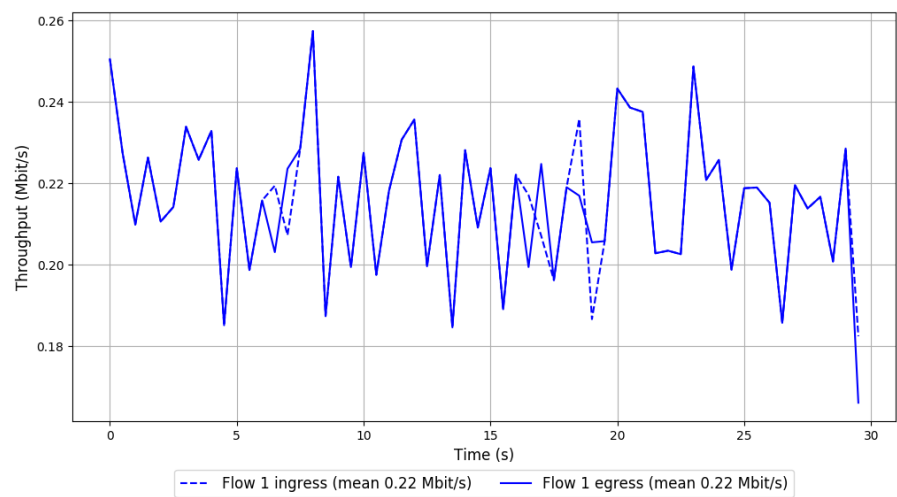


Run 8: Statistics of SCReAM

Start at: 2017-11-30 11:08:14
End at: 2017-11-30 11:08:44
Local clock offset: -0.29 ms
Remote clock offset: -1.719 ms

Below is generated by plot.py at 2017-11-30 15:52:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.258 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.258 ms
Loss rate: 0.13%

Run 8: Report of SReAM — Data Link

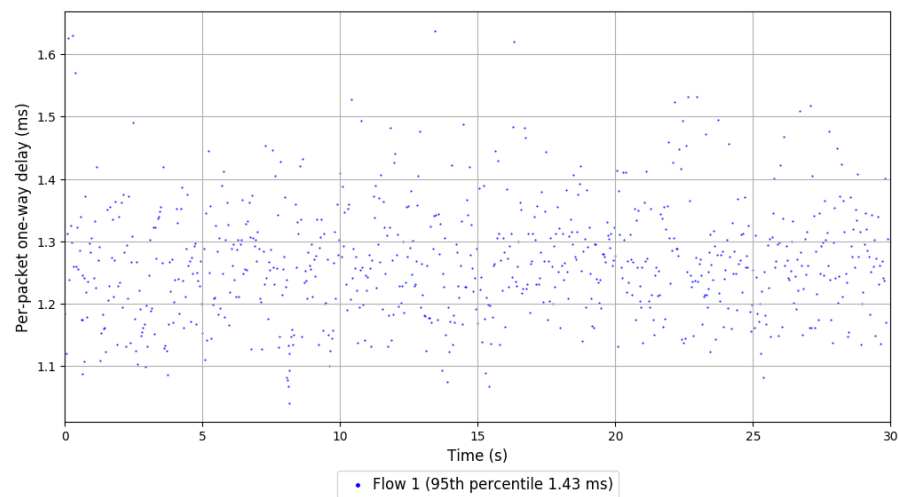
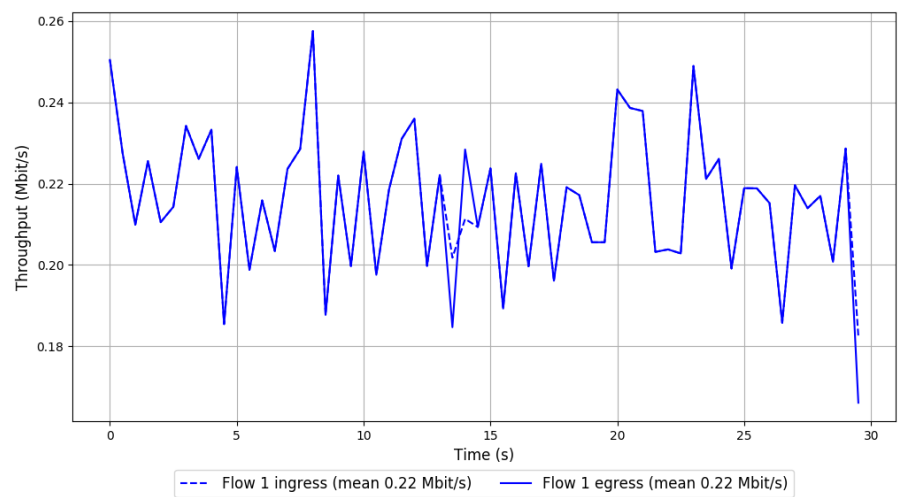


Run 9: Statistics of SCReAM

Start at: 2017-11-30 11:27:16
End at: 2017-11-30 11:27:46
Local clock offset: -0.169 ms
Remote clock offset: -1.354 ms

Below is generated by plot.py at 2017-11-30 15:52:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.427 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.427 ms
Loss rate: 0.13%

Run 9: Report of SReAM — Data Link

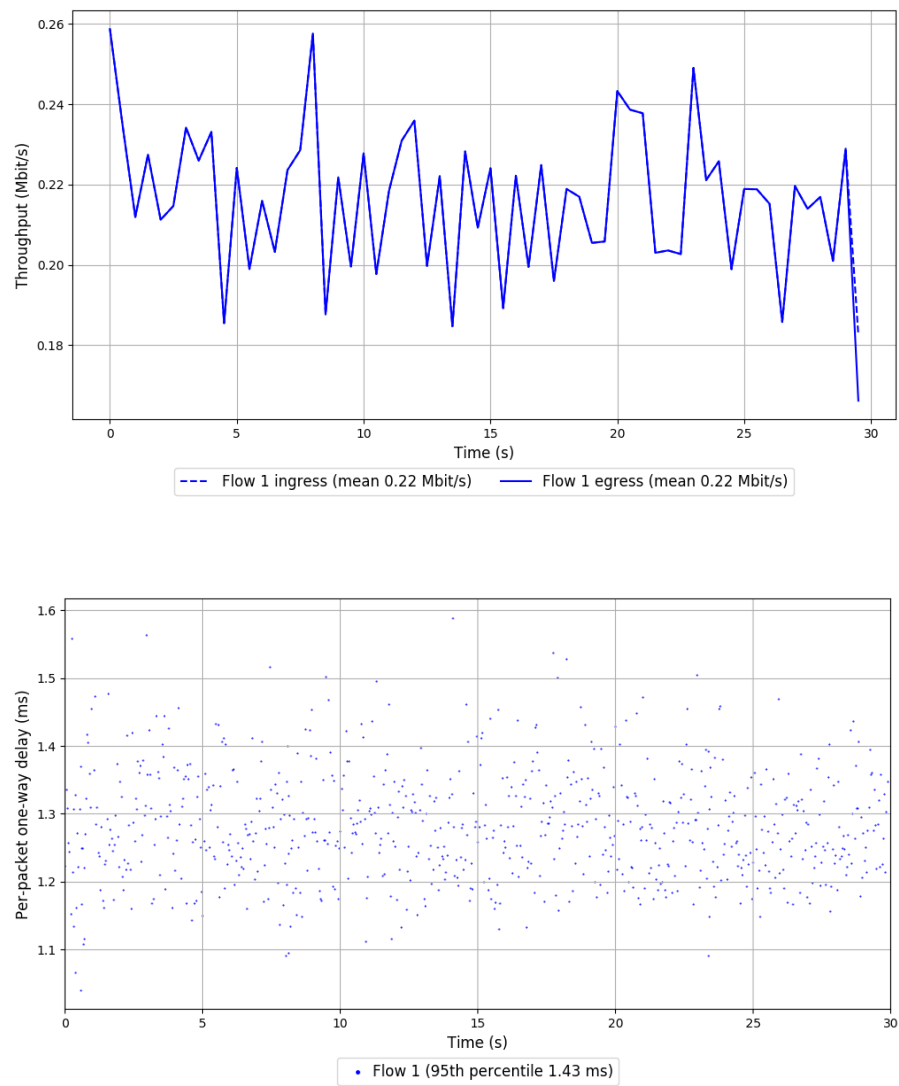


Run 10: Statistics of SReAM

Start at: 2017-11-30 11:46:23
End at: 2017-11-30 11:46:53
Local clock offset: -0.046 ms
Remote clock offset: -1.308 ms

Below is generated by plot.py at 2017-11-30 15:52:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.429 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.429 ms
Loss rate: 0.13%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2017-11-30 08:47:48

End at: 2017-11-30 08:48:18

Local clock offset: 0.146 ms

Remote clock offset: -3.48 ms

Below is generated by plot.py at 2017-11-30 15:52:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 1.278 ms

Loss rate: 0.09%

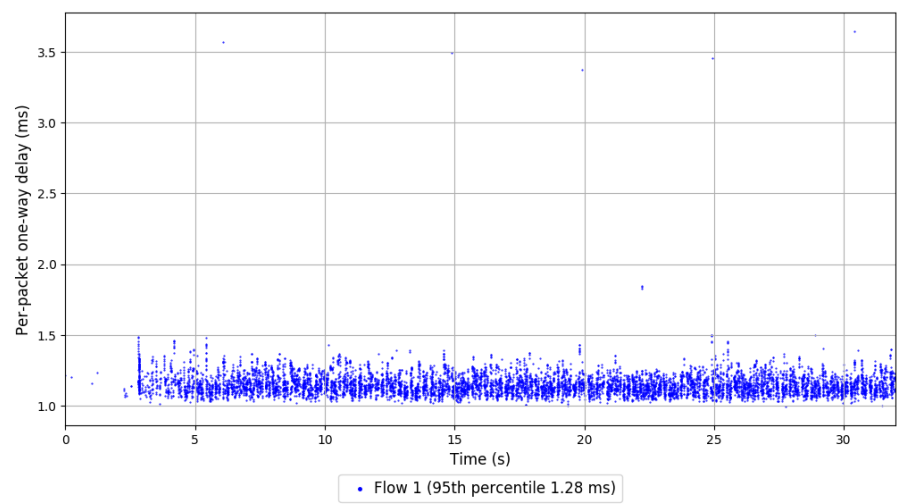
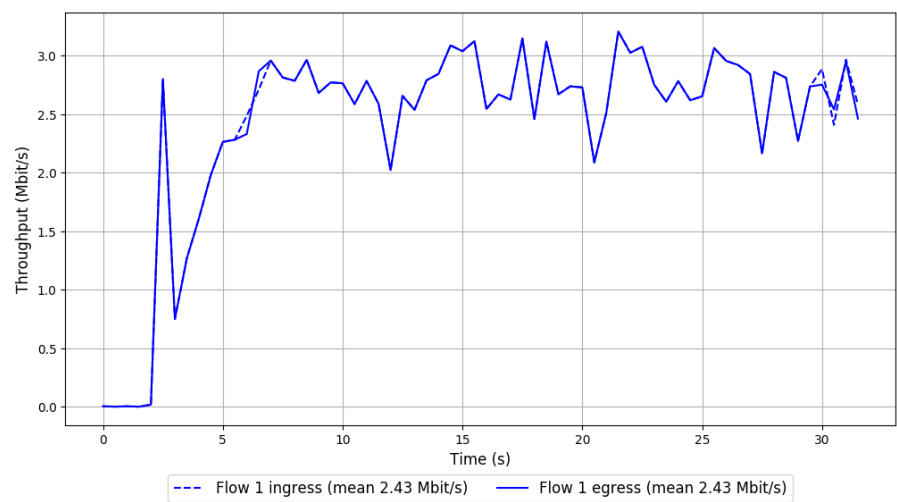
-- Flow 1:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 1.278 ms

Loss rate: 0.09%

Run 1: Report of WebRTC media — Data Link

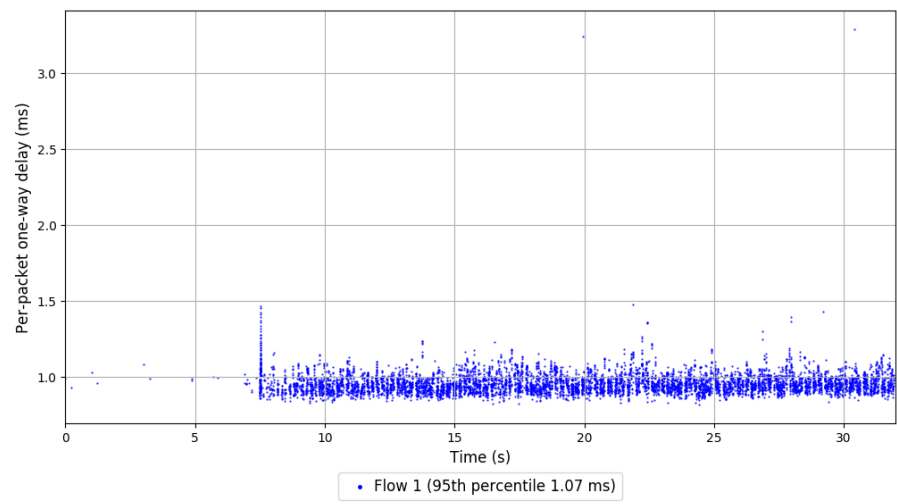
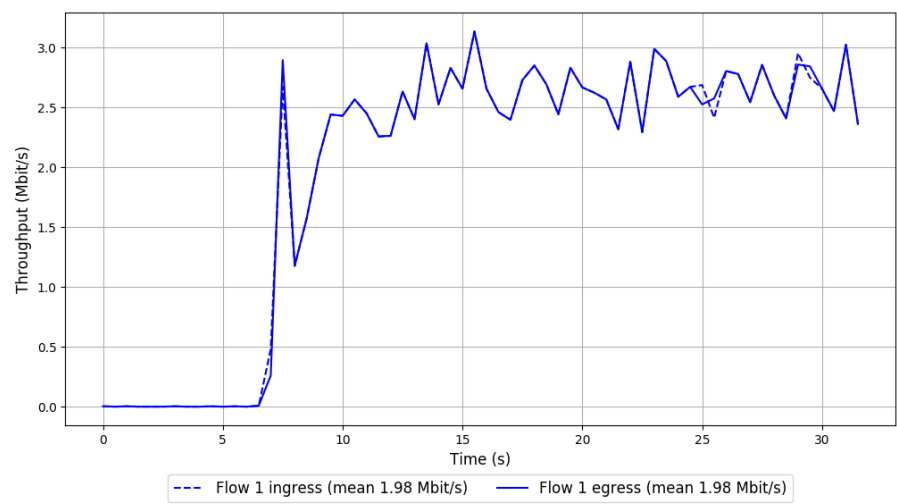


Run 2: Statistics of WebRTC media

Start at: 2017-11-30 09:06:50
End at: 2017-11-30 09:07:20
Local clock offset: -0.057 ms
Remote clock offset: -2.768 ms

Below is generated by plot.py at 2017-11-30 15:52:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 1.070 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 1.070 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

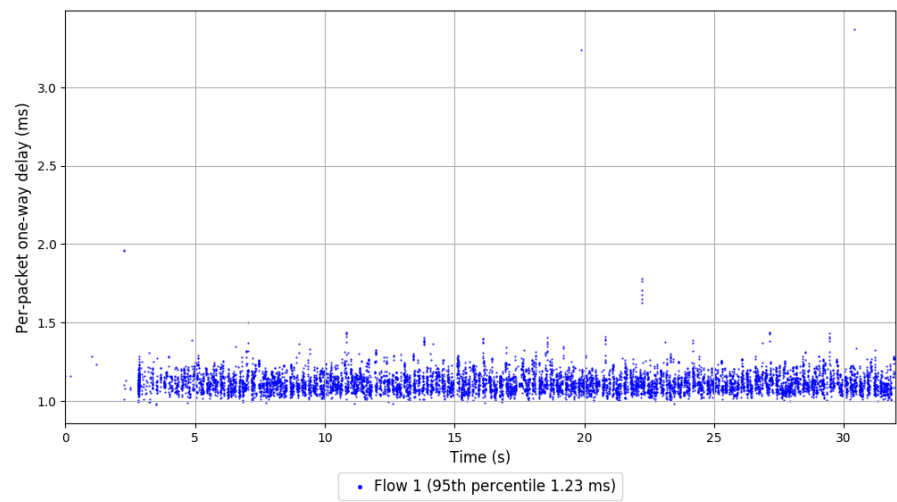
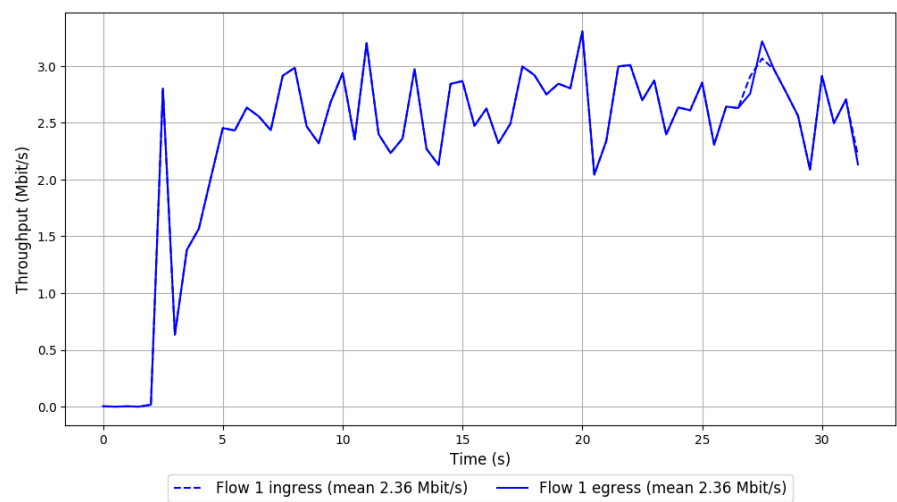


Run 3: Statistics of WebRTC media

Start at: 2017-11-30 09:25:40
End at: 2017-11-30 09:26:10
Local clock offset: -0.117 ms
Remote clock offset: -2.798 ms

Below is generated by plot.py at 2017-11-30 15:52:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 1.230 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 1.230 ms
Loss rate: 0.05%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-11-30 09:44:38

End at: 2017-11-30 09:45:08

Local clock offset: -0.258 ms

Remote clock offset: -2.79 ms

Below is generated by plot.py at 2017-11-30 15:52:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 1.134 ms

Loss rate: 0.00%

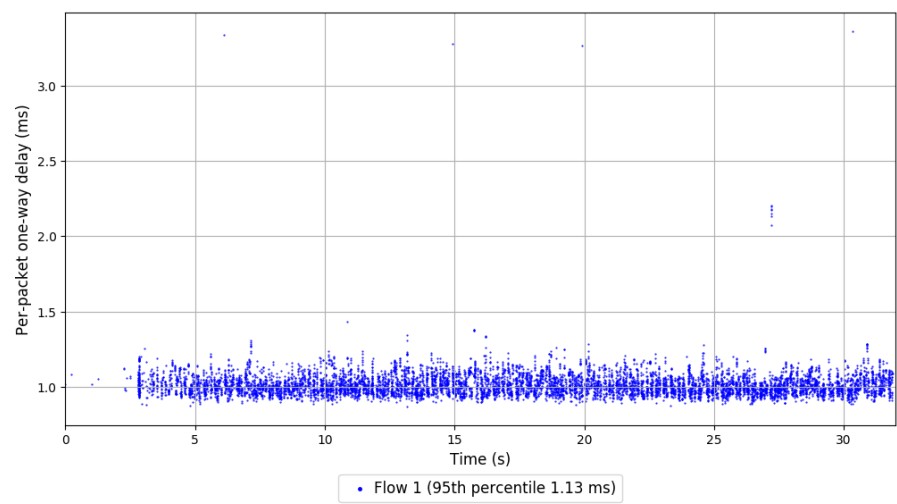
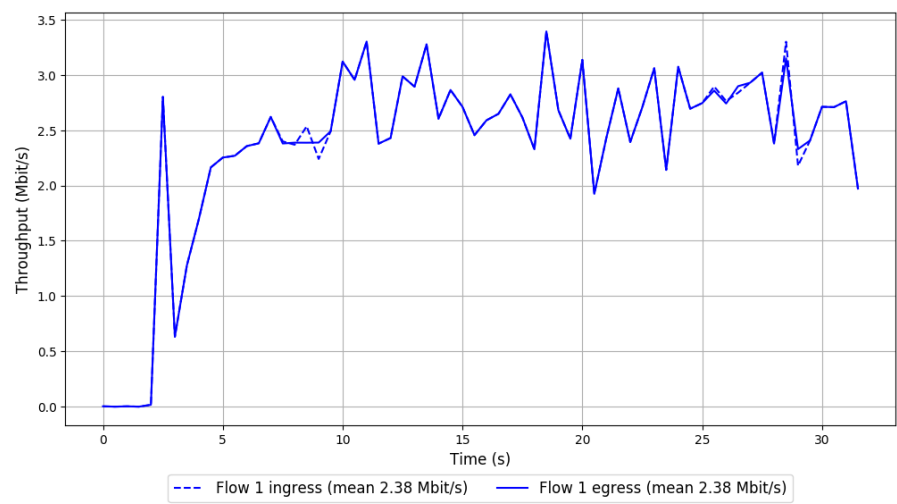
-- Flow 1:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 1.134 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

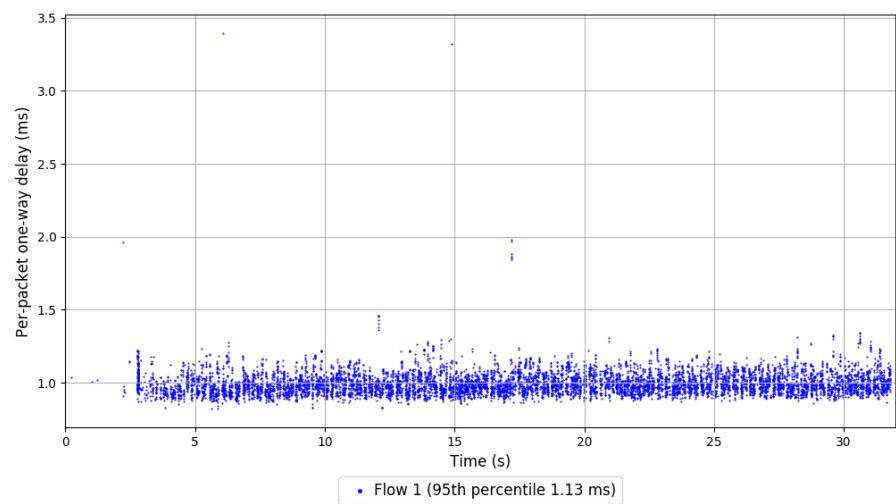
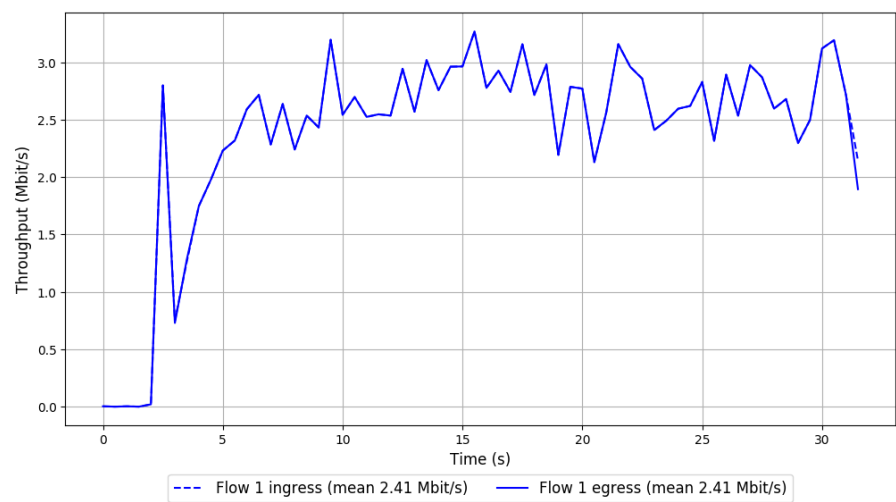


Run 5: Statistics of WebRTC media

Start at: 2017-11-30 10:03:30
End at: 2017-11-30 10:04:00
Local clock offset: -0.293 ms
Remote clock offset: -2.149 ms

Below is generated by plot.py at 2017-11-30 15:52:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 1.128 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 1.128 ms
Loss rate: 0.16%

Run 5: Report of WebRTC media — Data Link

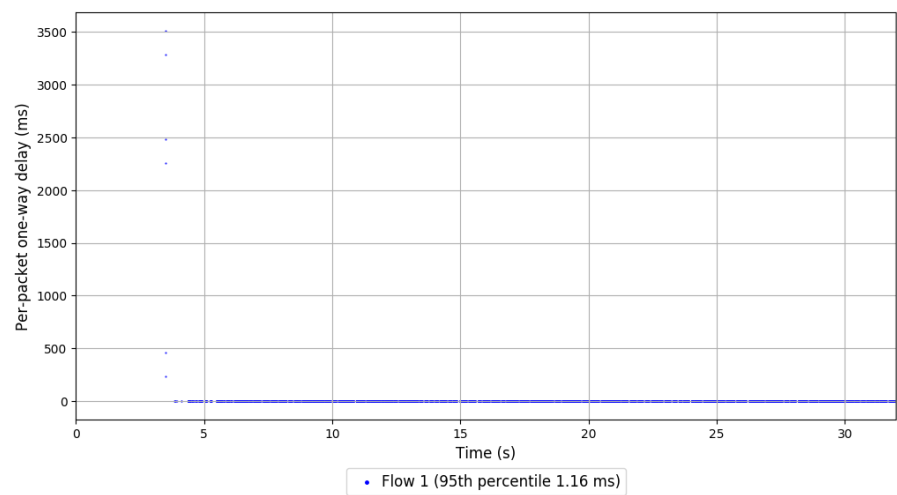
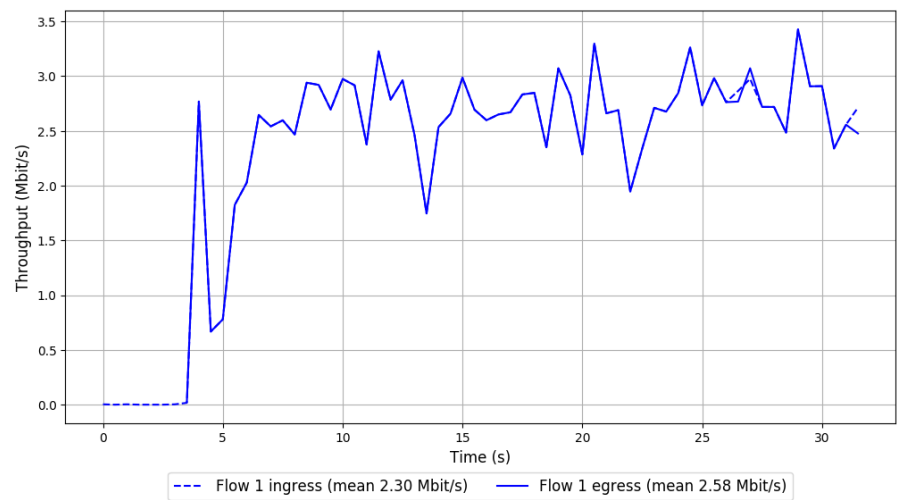


Run 6: Statistics of WebRTC media

Start at: 2017-11-30 10:22:26
End at: 2017-11-30 10:22:56
Local clock offset: -0.353 ms
Remote clock offset: -1.634 ms

Below is generated by plot.py at 2017-11-30 15:52:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.58 Mbit/s
95th percentile per-packet one-way delay: 1.158 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 2.58 Mbit/s
95th percentile per-packet one-way delay: 1.158 ms
Loss rate: 0.16%

Run 6: Report of WebRTC media — Data Link

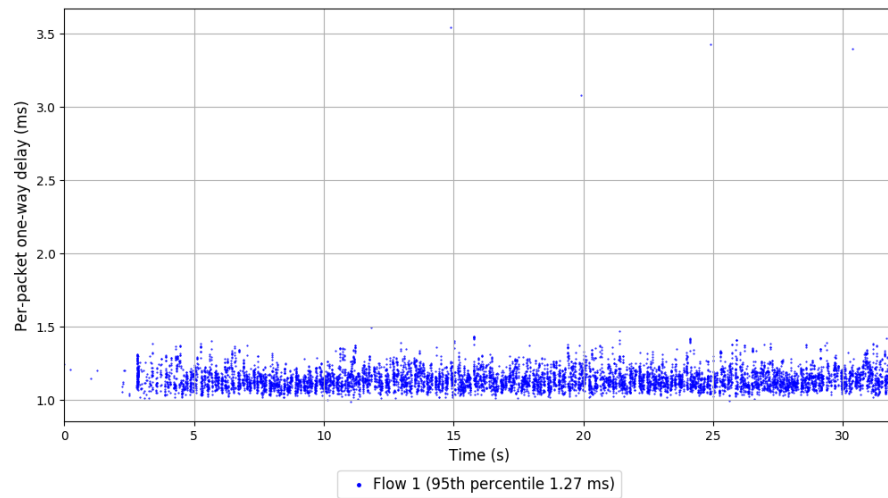
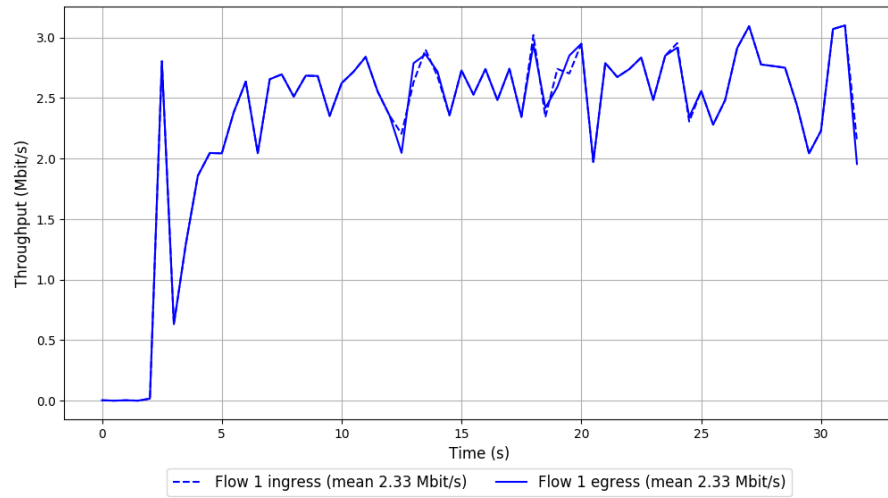


Run 7: Statistics of WebRTC media

Start at: 2017-11-30 10:41:27
End at: 2017-11-30 10:41:57
Local clock offset: -0.253 ms
Remote clock offset: -1.744 ms

Below is generated by plot.py at 2017-11-30 15:52:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 1.274 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 1.274 ms
Loss rate: 0.13%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-11-30 11:00:36

End at: 2017-11-30 11:01:06

Local clock offset: -0.312 ms

Remote clock offset: -1.62 ms

Below is generated by plot.py at 2017-11-30 15:52:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.44 Mbit/s

95th percentile per-packet one-way delay: 1.143 ms

Loss rate: 0.00%

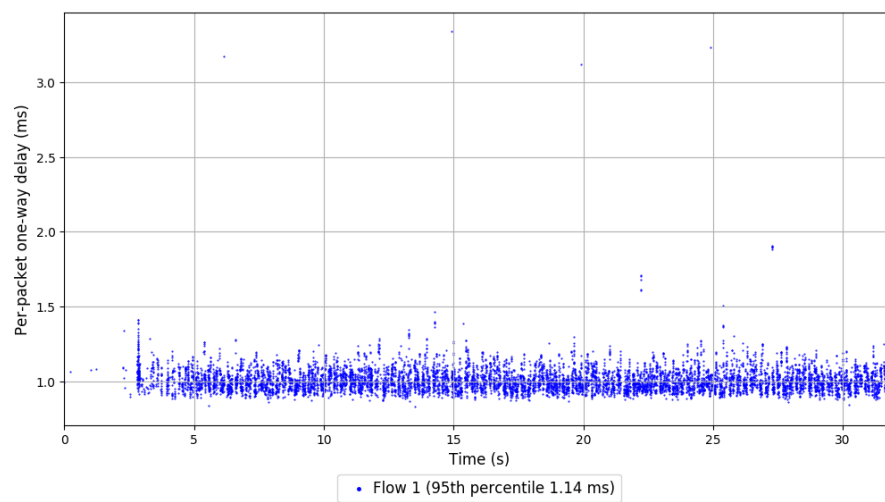
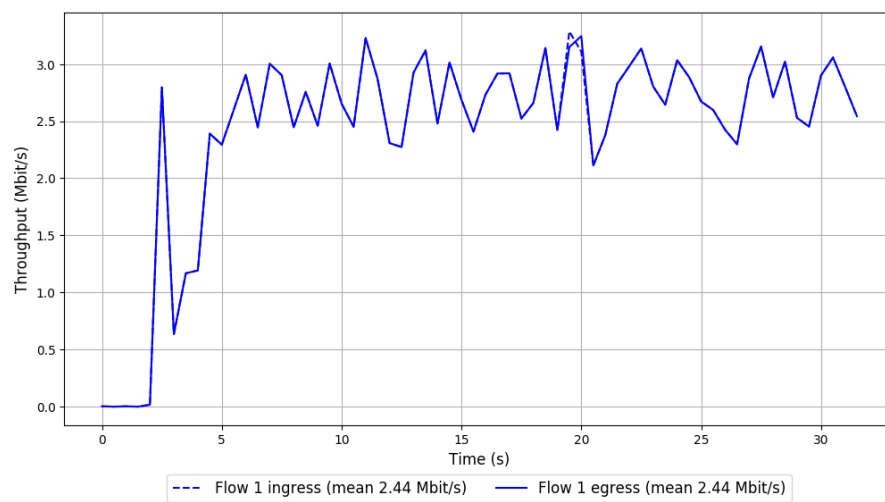
-- Flow 1:

Average throughput: 2.44 Mbit/s

95th percentile per-packet one-way delay: 1.143 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

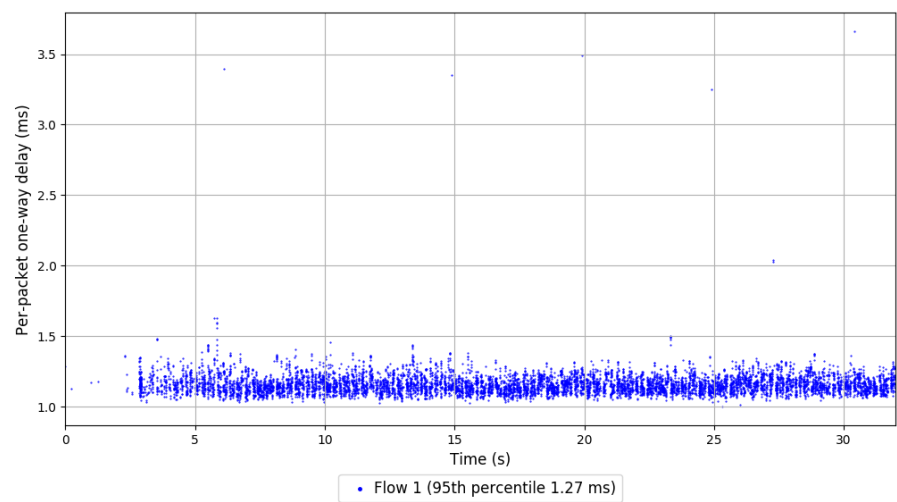
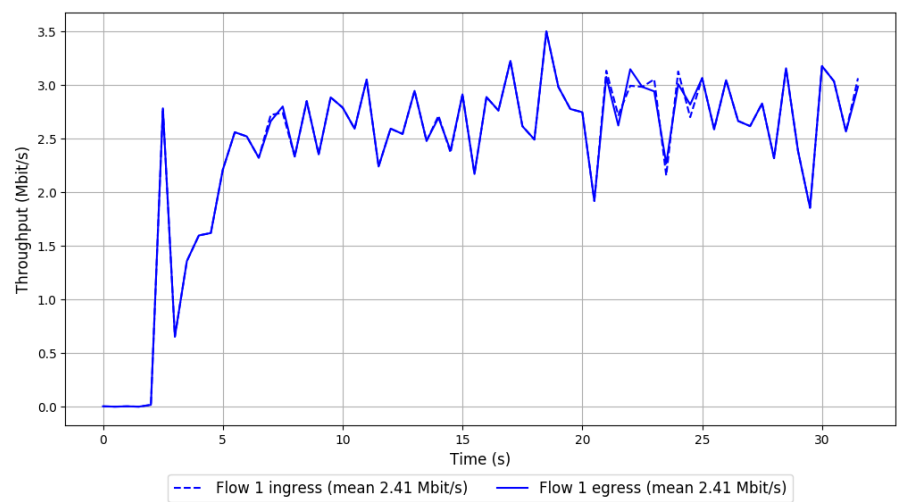


Run 9: Statistics of WebRTC media

Start at: 2017-11-30 11:19:32
End at: 2017-11-30 11:20:02
Local clock offset: -0.166 ms
Remote clock offset: -1.608 ms

Below is generated by plot.py at 2017-11-30 15:52:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 1.269 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 1.269 ms
Loss rate: 0.05%

Run 9: Report of WebRTC media — Data Link

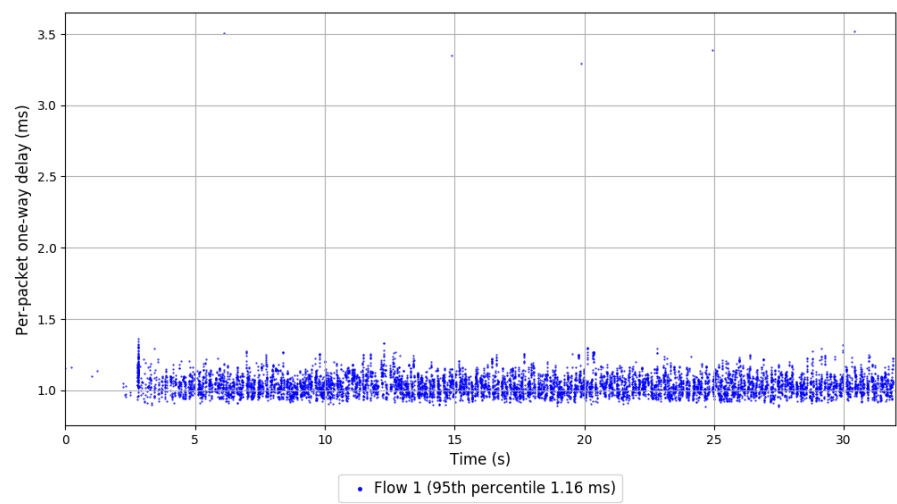
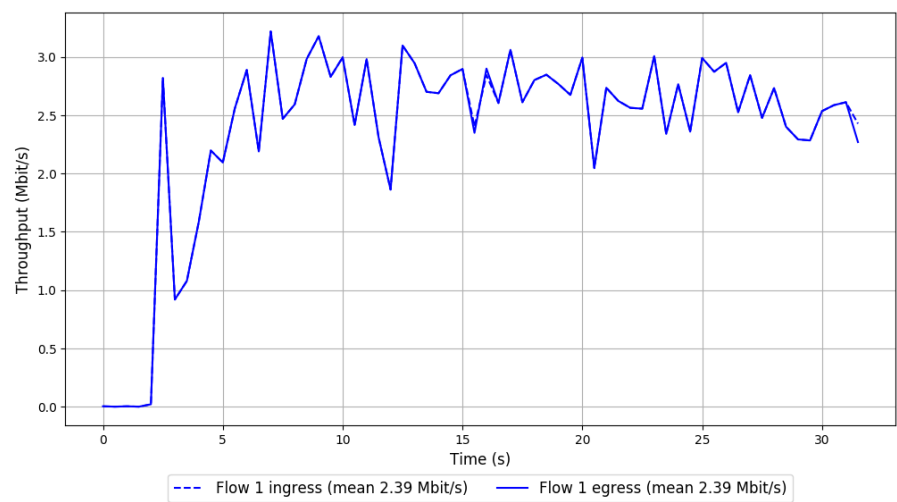


Run 10: Statistics of WebRTC media

Start at: 2017-11-30 11:38:46
End at: 2017-11-30 11:39:16
Local clock offset: -0.188 ms
Remote clock offset: -1.316 ms

Below is generated by plot.py at 2017-11-30 15:52:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.39 Mbit/s
95th percentile per-packet one-way delay: 1.162 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 2.39 Mbit/s
95th percentile per-packet one-way delay: 1.162 ms
Loss rate: 0.10%

Run 10: Report of WebRTC media — Data Link

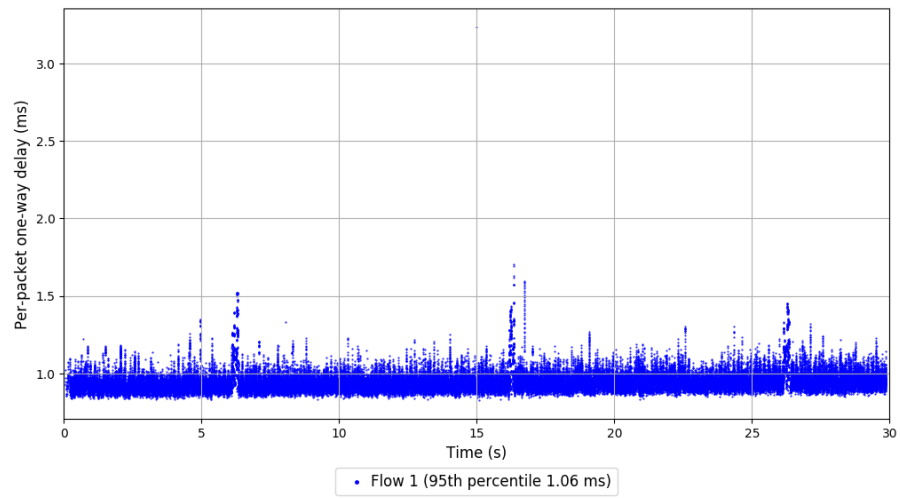
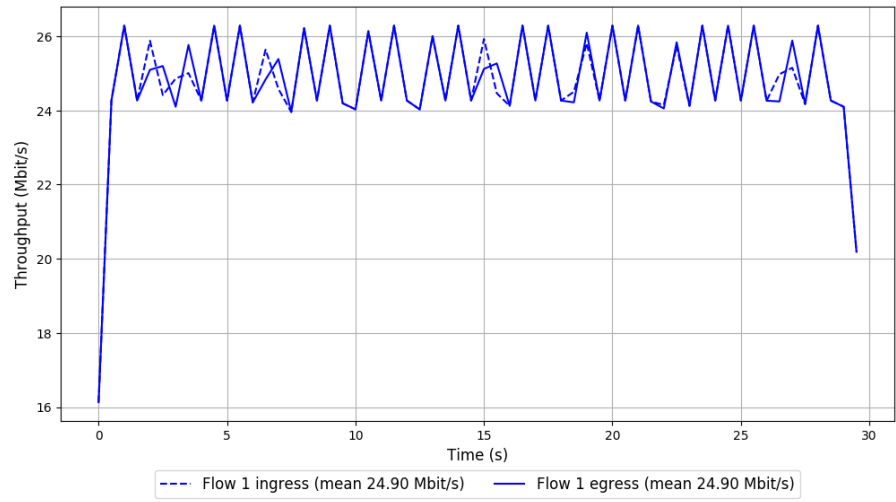


Run 1: Statistics of Sprout

Start at: 2017-11-30 08:54:20
End at: 2017-11-30 08:54:50
Local clock offset: 0.003 ms
Remote clock offset: -3.236 ms

Below is generated by plot.py at 2017-11-30 15:52:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.90 Mbit/s
95th percentile per-packet one-way delay: 1.059 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.90 Mbit/s
95th percentile per-packet one-way delay: 1.059 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

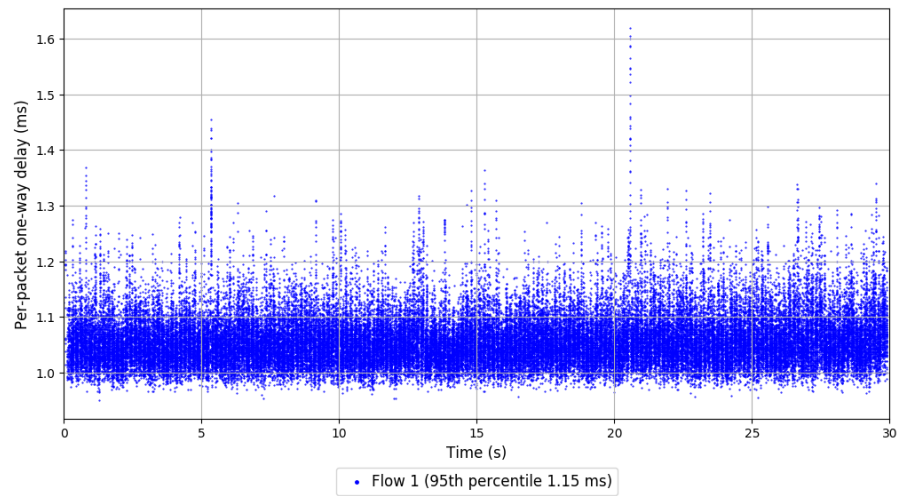
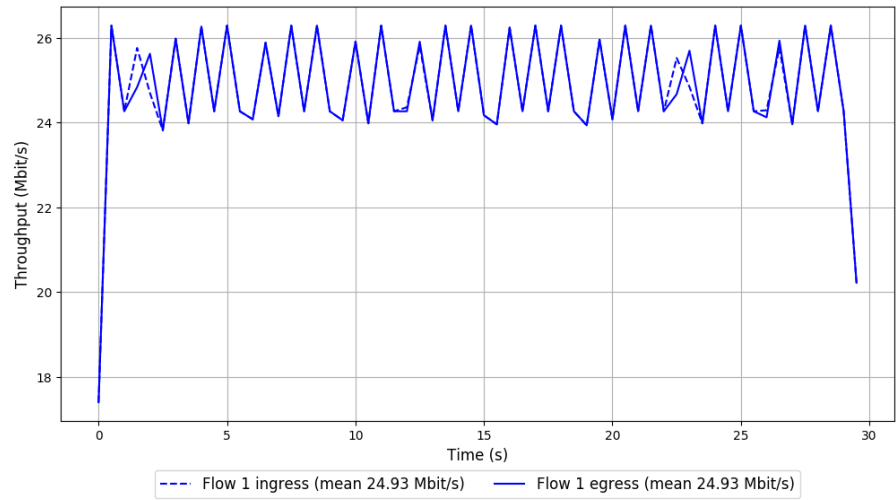


Run 2: Statistics of Sprout

Start at: 2017-11-30 09:13:20
End at: 2017-11-30 09:13:50
Local clock offset: -0.116 ms
Remote clock offset: -2.751 ms

Below is generated by plot.py at 2017-11-30 15:52:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.93 Mbit/s
95th percentile per-packet one-way delay: 1.147 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.93 Mbit/s
95th percentile per-packet one-way delay: 1.147 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

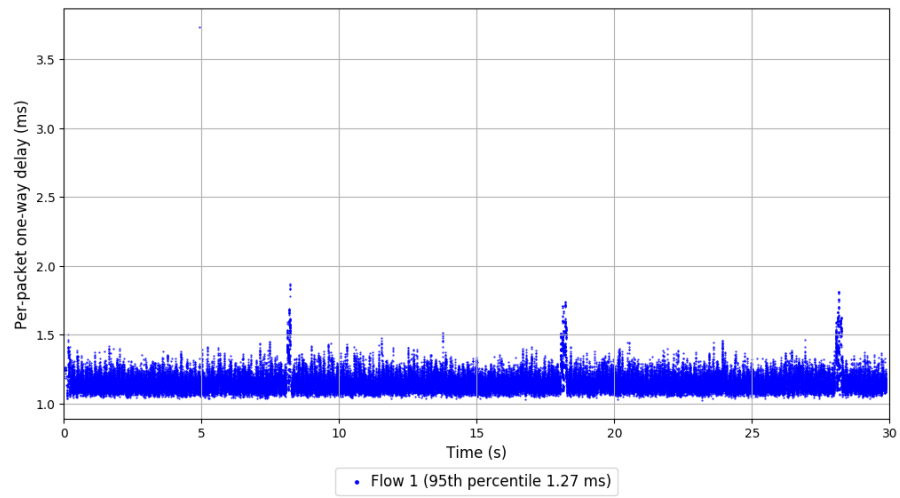
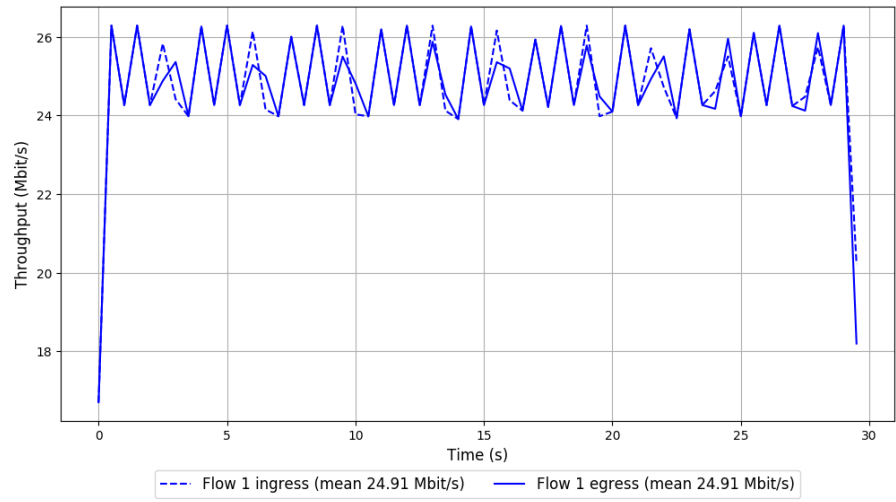


Run 3: Statistics of Sprout

Start at: 2017-11-30 09:32:13
End at: 2017-11-30 09:32:43
Local clock offset: -0.162 ms
Remote clock offset: -2.807 ms

Below is generated by plot.py at 2017-11-30 15:52:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.91 Mbit/s
95th percentile per-packet one-way delay: 1.274 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 24.91 Mbit/s
95th percentile per-packet one-way delay: 1.274 ms
Loss rate: 0.14%

Run 3: Report of Sprout — Data Link

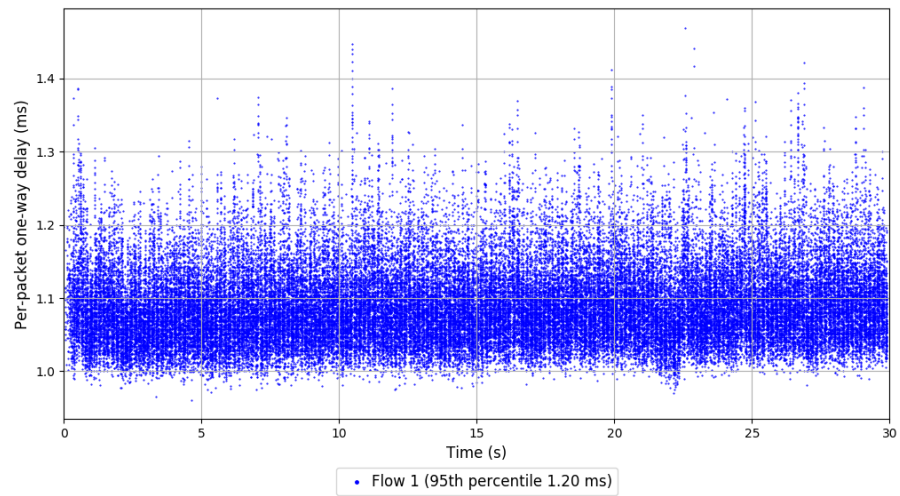
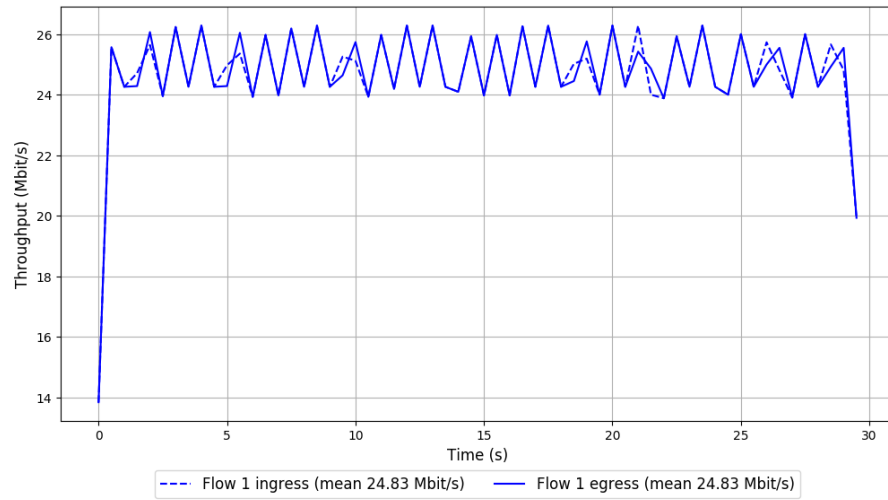


Run 4: Statistics of Sprout

Start at: 2017-11-30 09:51:10
End at: 2017-11-30 09:51:40
Local clock offset: -0.274 ms
Remote clock offset: -2.666 ms

Below is generated by plot.py at 2017-11-30 15:52:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.83 Mbit/s
95th percentile per-packet one-way delay: 1.197 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.83 Mbit/s
95th percentile per-packet one-way delay: 1.197 ms
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-11-30 10:09:57

End at: 2017-11-30 10:10:27

Local clock offset: -0.356 ms

Remote clock offset: -1.98 ms

Below is generated by plot.py at 2017-11-30 15:52:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.93 Mbit/s

95th percentile per-packet one-way delay: 1.181 ms

Loss rate: 0.13%

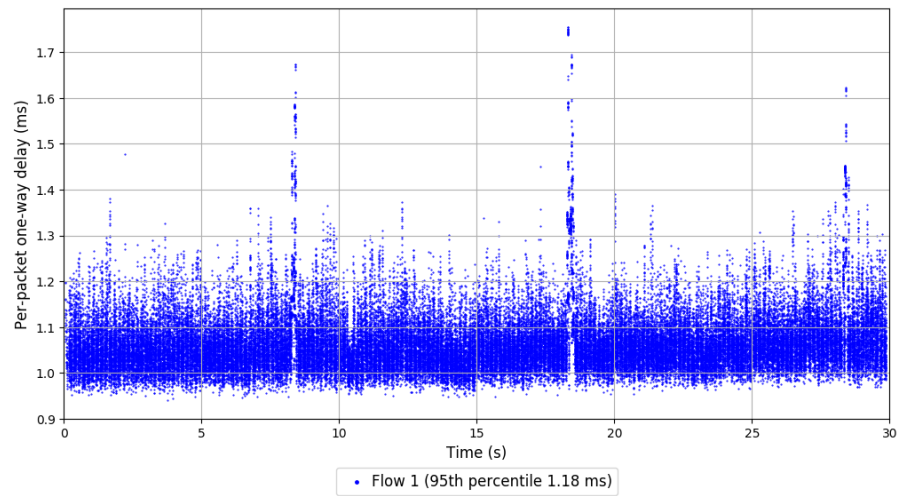
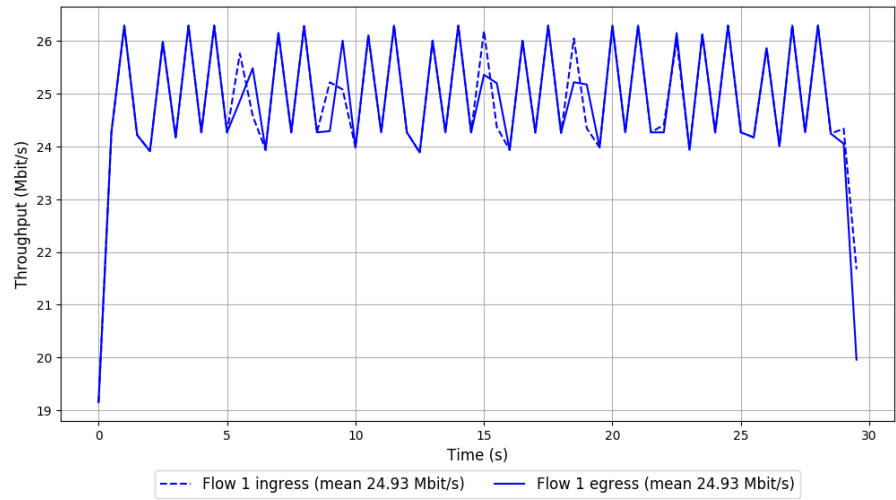
-- Flow 1:

Average throughput: 24.93 Mbit/s

95th percentile per-packet one-way delay: 1.181 ms

Loss rate: 0.13%

Run 5: Report of Sprout — Data Link

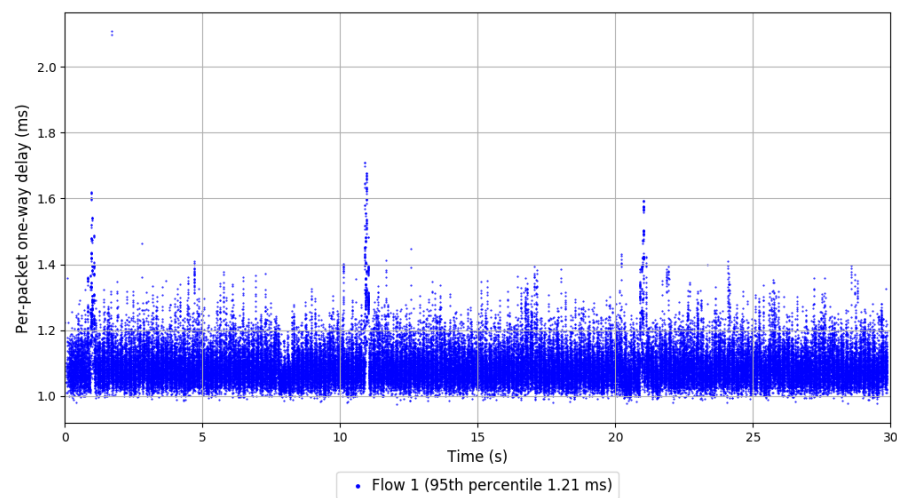
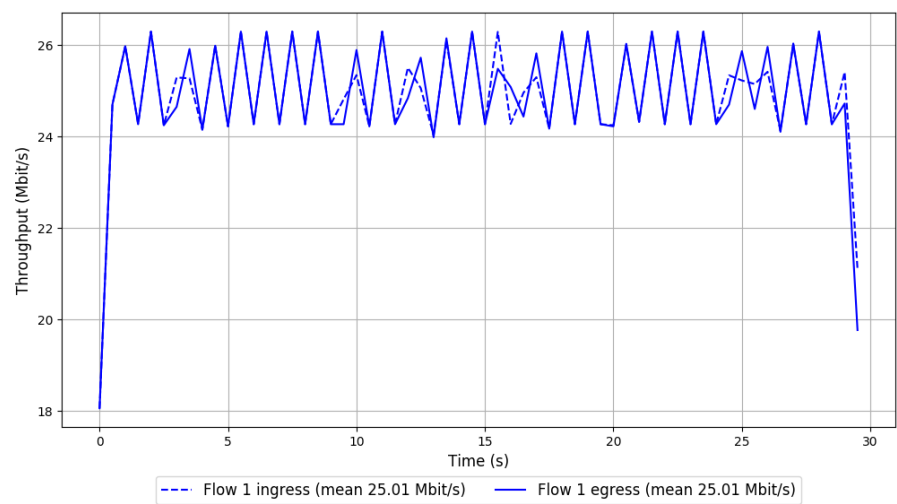


Run 6: Statistics of Sprout

Start at: 2017-11-30 10:28:55
End at: 2017-11-30 10:29:25
Local clock offset: -0.258 ms
Remote clock offset: -1.633 ms

Below is generated by plot.py at 2017-11-30 15:52:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 25.01 Mbit/s
95th percentile per-packet one-way delay: 1.206 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 25.01 Mbit/s
95th percentile per-packet one-way delay: 1.206 ms
Loss rate: 0.14%

Run 6: Report of Sprout — Data Link

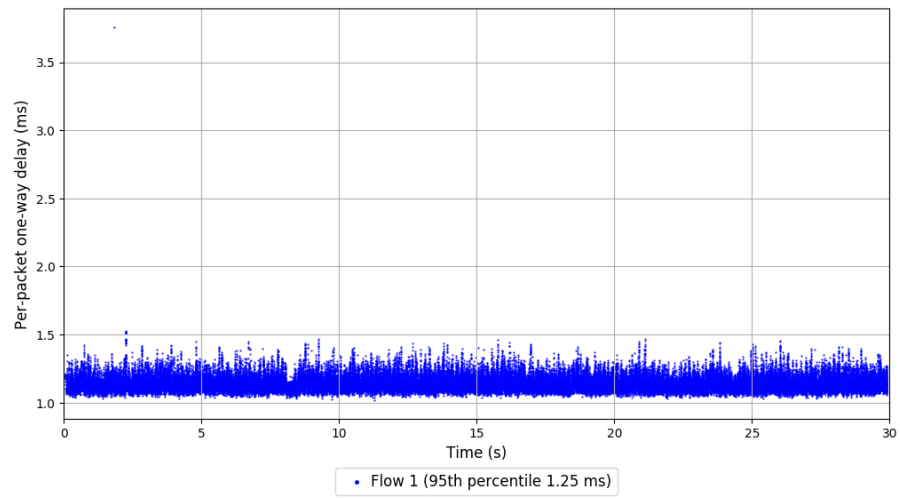
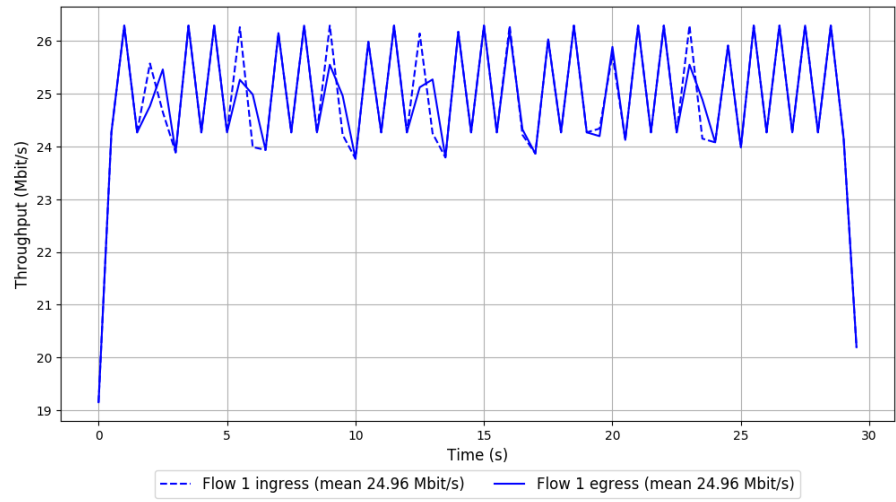


Run 7: Statistics of Sprout

Start at: 2017-11-30 10:47:55
End at: 2017-11-30 10:48:25
Local clock offset: -0.259 ms
Remote clock offset: -1.723 ms

Below is generated by plot.py at 2017-11-30 15:52:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.96 Mbit/s
95th percentile per-packet one-way delay: 1.254 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.96 Mbit/s
95th percentile per-packet one-way delay: 1.254 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

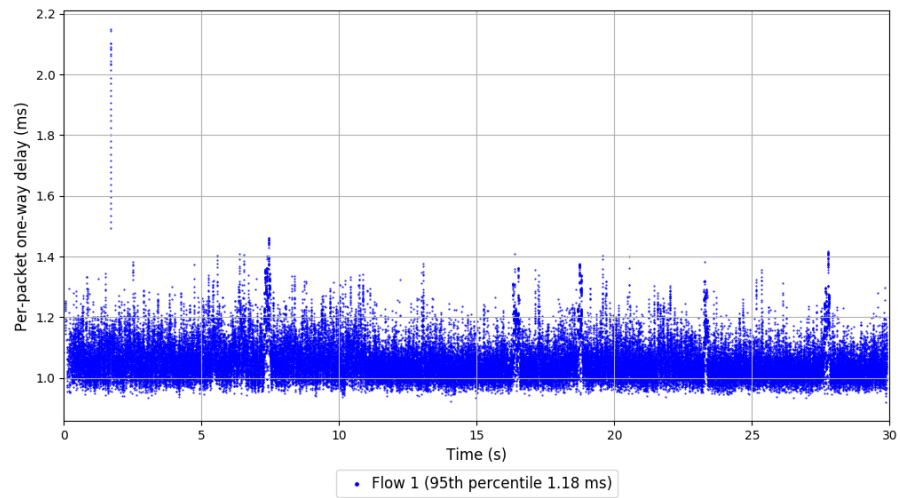
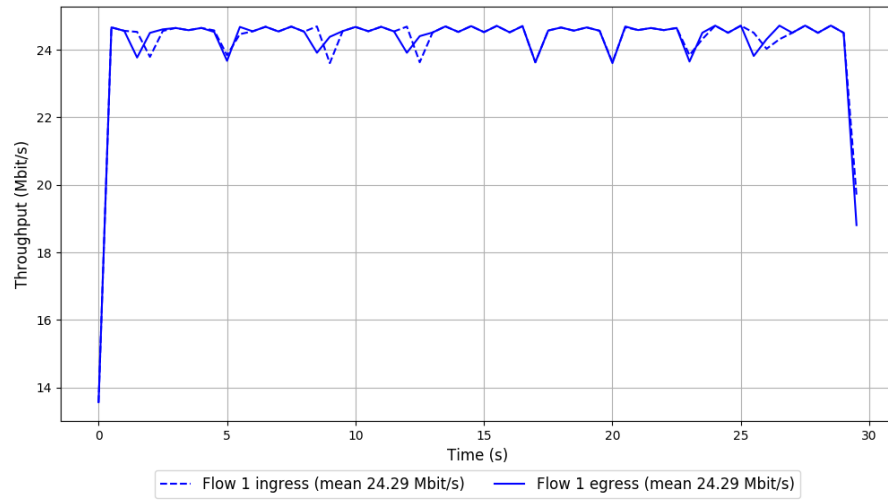


Run 8: Statistics of Sprout

Start at: 2017-11-30 11:07:03
End at: 2017-11-30 11:07:34
Local clock offset: -0.304 ms
Remote clock offset: -1.726 ms

Below is generated by plot.py at 2017-11-30 15:52:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.29 Mbit/s
95th percentile per-packet one-way delay: 1.180 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 24.29 Mbit/s
95th percentile per-packet one-way delay: 1.180 ms
Loss rate: 0.06%

Run 8: Report of Sprout — Data Link

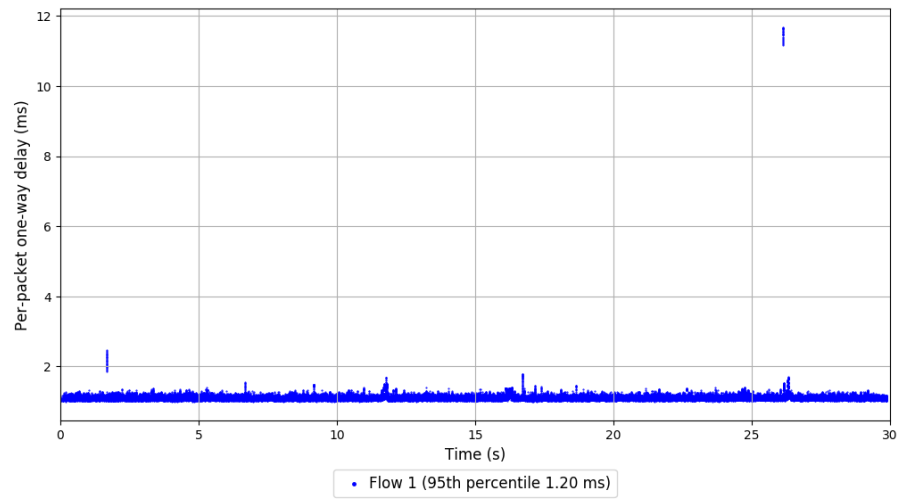
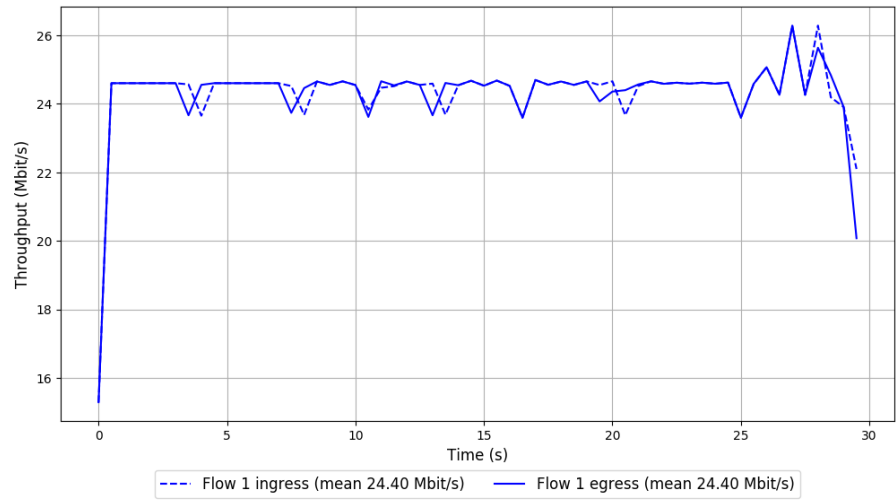


Run 9: Statistics of Sprout

Start at: 2017-11-30 11:26:05
End at: 2017-11-30 11:26:35
Local clock offset: -0.246 ms
Remote clock offset: -1.432 ms

Below is generated by plot.py at 2017-11-30 15:52:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.40 Mbit/s
95th percentile per-packet one-way delay: 1.203 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 24.40 Mbit/s
95th percentile per-packet one-way delay: 1.203 ms
Loss rate: 0.14%

Run 9: Report of Sprout — Data Link

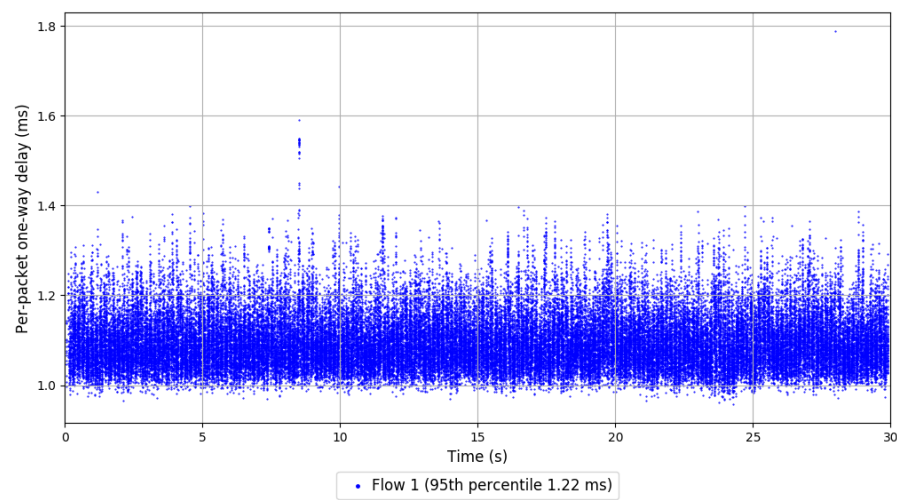
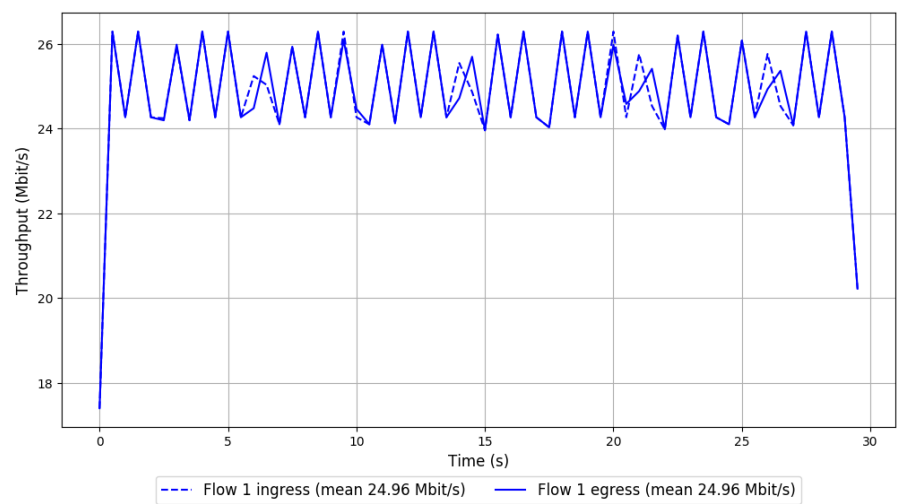


Run 10: Statistics of Sprout

Start at: 2017-11-30 11:45:13
End at: 2017-11-30 11:45:43
Local clock offset: -0.068 ms
Remote clock offset: -1.264 ms

Below is generated by plot.py at 2017-11-30 15:52:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.96 Mbit/s
95th percentile per-packet one-way delay: 1.218 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.96 Mbit/s
95th percentile per-packet one-way delay: 1.218 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2017-11-30 08:52:53

End at: 2017-11-30 08:53:23

Local clock offset: 0.135 ms

Remote clock offset: -3.328 ms

Below is generated by plot.py at 2017-11-30 15:58:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 250.08 Mbit/s

95th percentile per-packet one-way delay: 1.253 ms

Loss rate: 0.06%

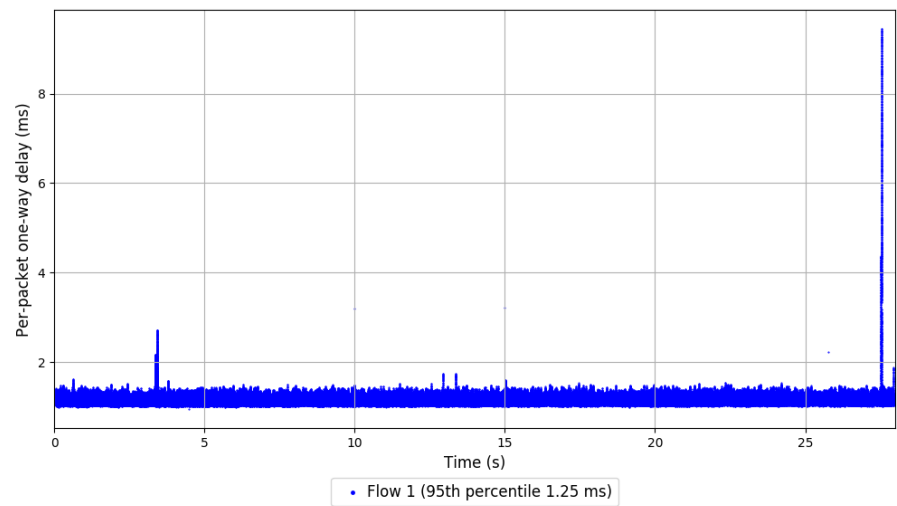
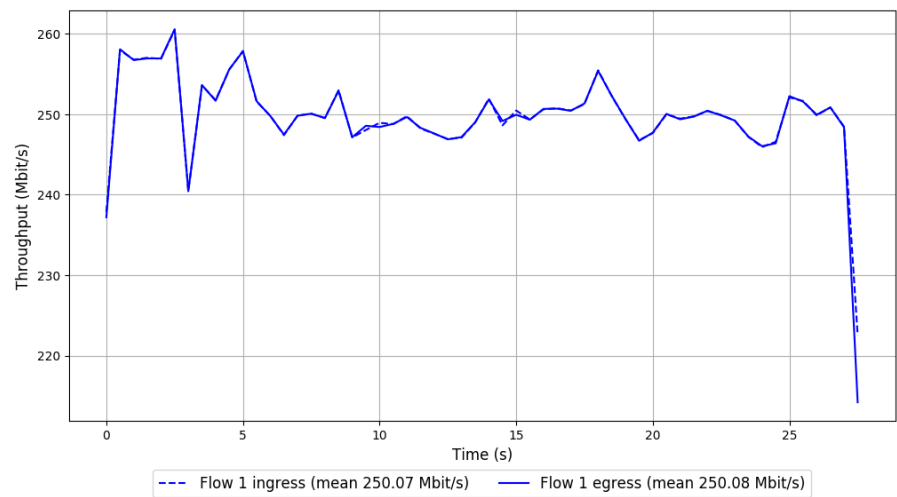
-- Flow 1:

Average throughput: 250.08 Mbit/s

95th percentile per-packet one-way delay: 1.253 ms

Loss rate: 0.06%

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



Run 2: Statistics of TaoVA-100x

Start at: 2017-11-30 09:11:52

End at: 2017-11-30 09:12:22

Local clock offset: 0.0 ms

Remote clock offset: -2.758 ms

Below is generated by plot.py at 2017-11-30 15:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 266.25 Mbit/s

95th percentile per-packet one-way delay: 1.271 ms

Loss rate: 0.06%

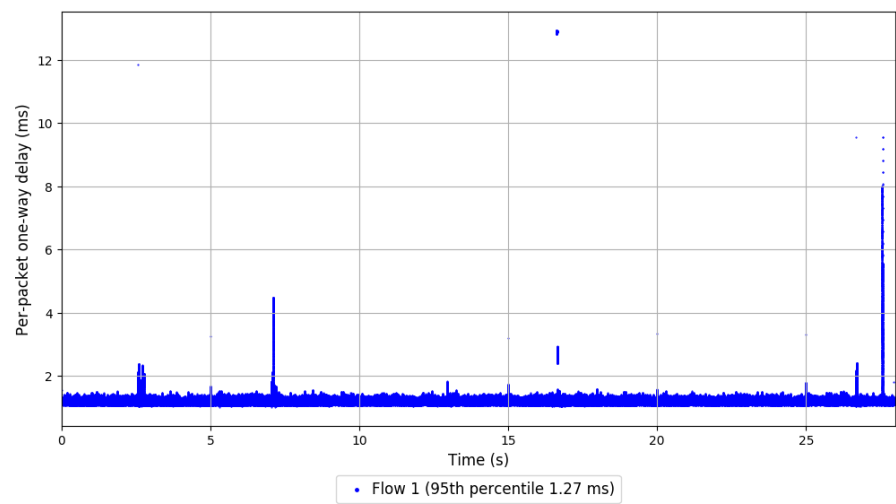
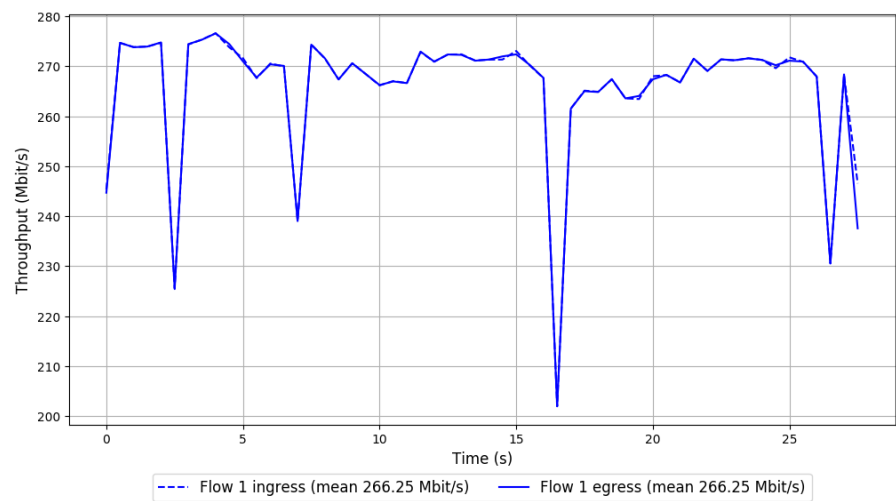
-- Flow 1:

Average throughput: 266.25 Mbit/s

95th percentile per-packet one-way delay: 1.271 ms

Loss rate: 0.06%

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

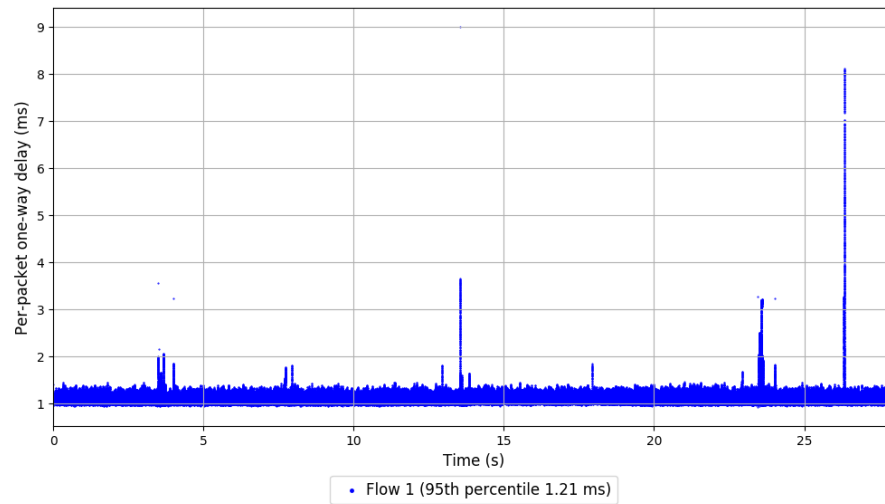
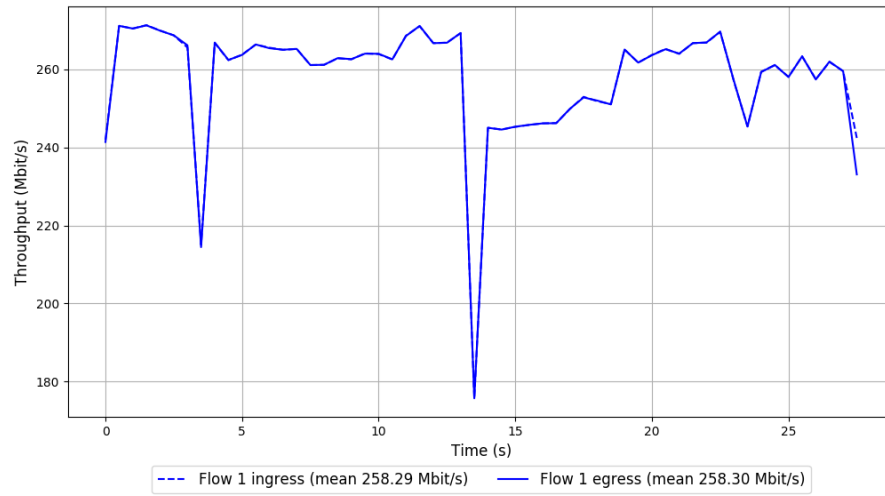


Run 3: Statistics of TaoVA-100x

Start at: 2017-11-30 09:30:45
End at: 2017-11-30 09:31:15
Local clock offset: -0.241 ms
Remote clock offset: -2.812 ms

Below is generated by plot.py at 2017-11-30 15:58:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 258.30 Mbit/s
95th percentile per-packet one-way delay: 1.205 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 258.30 Mbit/s
95th percentile per-packet one-way delay: 1.205 ms
Loss rate: 0.07%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-11-30 09:49:42

End at: 2017-11-30 09:50:12

Local clock offset: -0.263 ms

Remote clock offset: -2.713 ms

Below is generated by plot.py at 2017-11-30 15:58:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 266.25 Mbit/s

95th percentile per-packet one-way delay: 1.184 ms

Loss rate: 0.07%

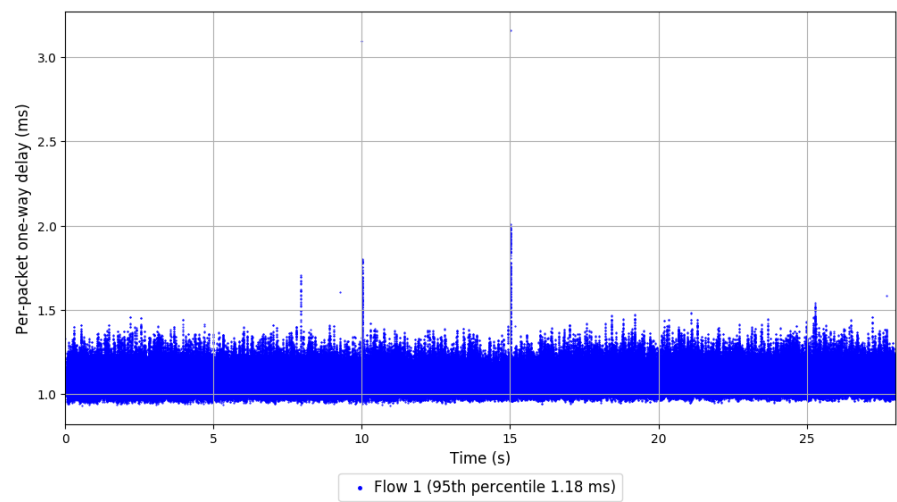
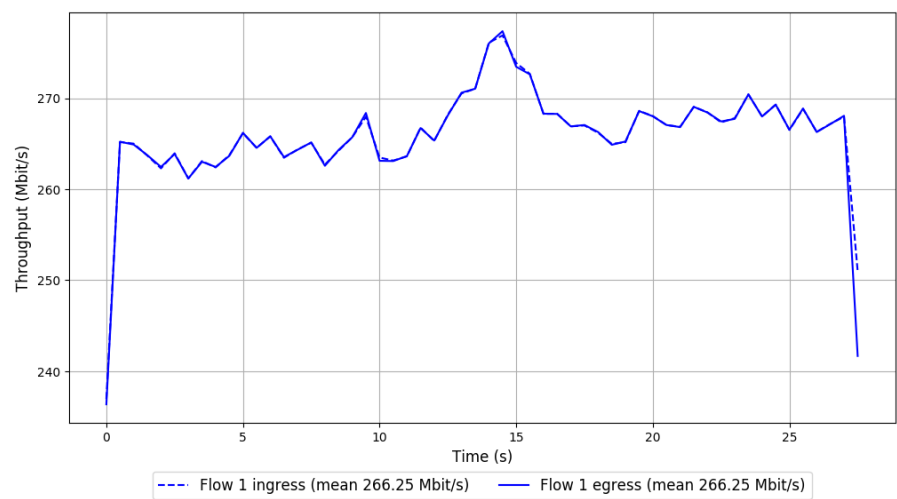
-- Flow 1:

Average throughput: 266.25 Mbit/s

95th percentile per-packet one-way delay: 1.184 ms

Loss rate: 0.07%

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

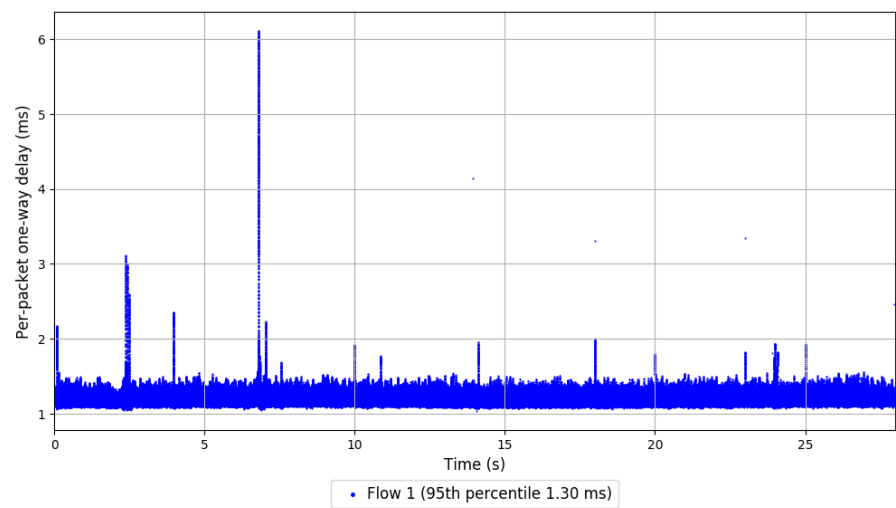
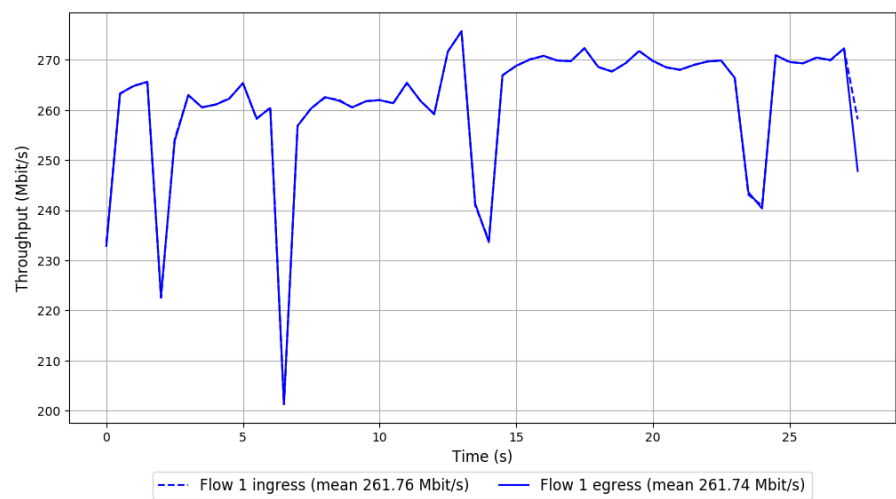


Run 5: Statistics of TaoVA-100x

Start at: 2017-11-30 10:08:30
End at: 2017-11-30 10:09:00
Local clock offset: -0.242 ms
Remote clock offset: -2.067 ms

Below is generated by plot.py at 2017-11-30 15:58:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 261.74 Mbit/s
95th percentile per-packet one-way delay: 1.305 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 261.74 Mbit/s
95th percentile per-packet one-way delay: 1.305 ms
Loss rate: 0.07%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-30 10:27:27

End at: 2017-11-30 10:27:57

Local clock offset: -0.341 ms

Remote clock offset: -1.67 ms

Below is generated by plot.py at 2017-11-30 15:58:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 267.89 Mbit/s

95th percentile per-packet one-way delay: 1.178 ms

Loss rate: 0.07%

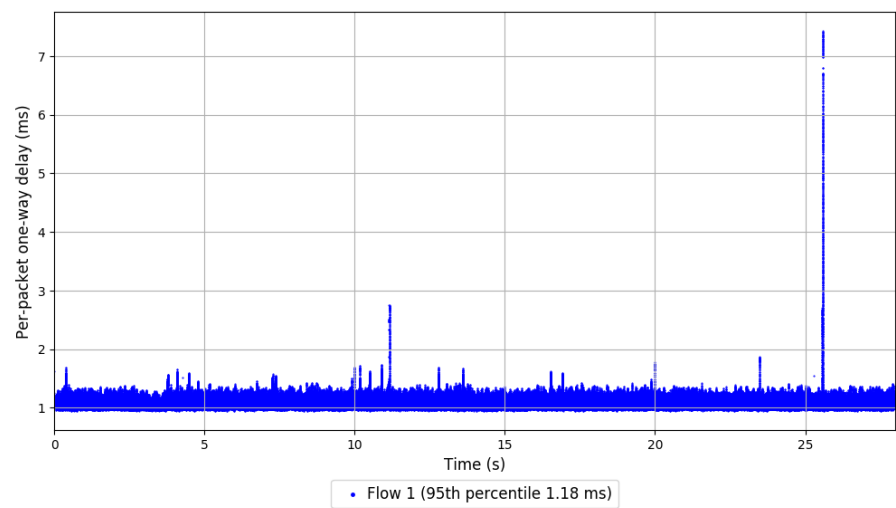
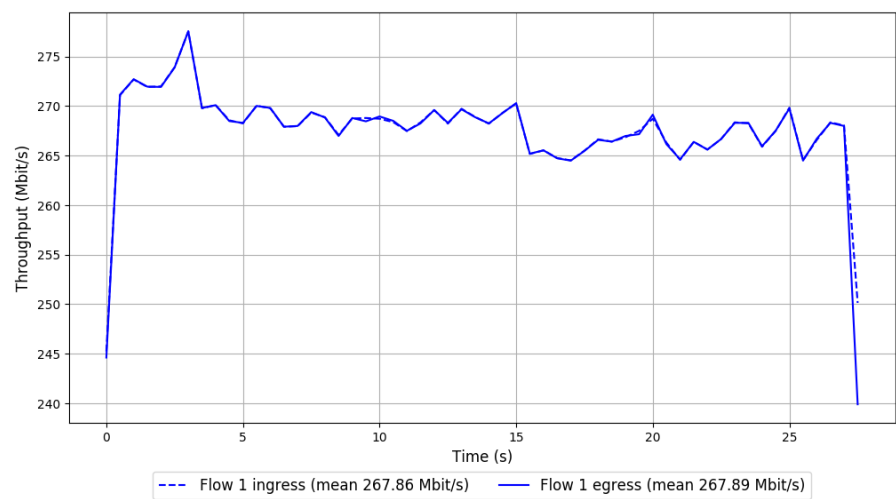
-- Flow 1:

Average throughput: 267.89 Mbit/s

95th percentile per-packet one-way delay: 1.178 ms

Loss rate: 0.07%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-11-30 10:46:28

End at: 2017-11-30 10:46:58

Local clock offset: -0.269 ms

Remote clock offset: -1.68 ms

Below is generated by plot.py at 2017-11-30 15:58:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 246.24 Mbit/s

95th percentile per-packet one-way delay: 1.187 ms

Loss rate: 0.07%

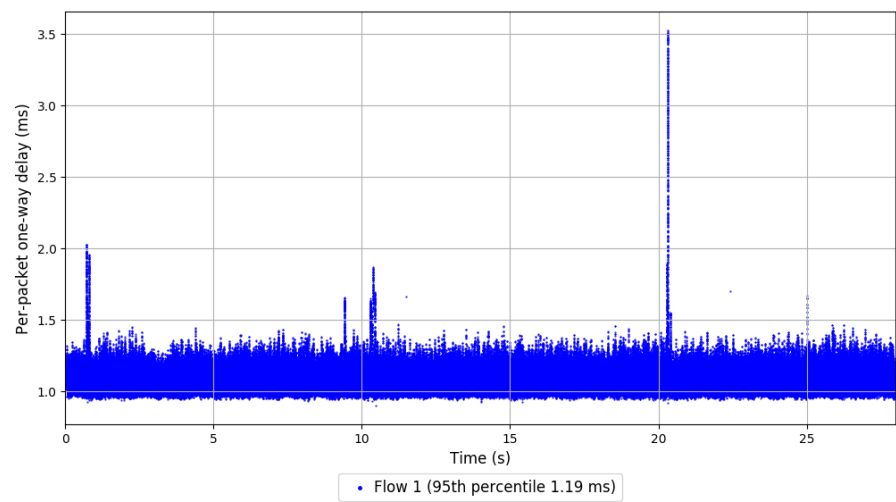
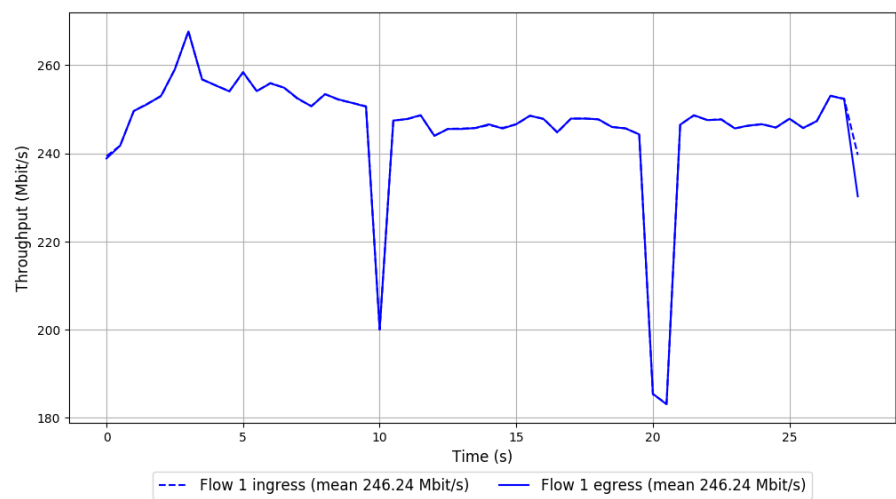
-- Flow 1:

Average throughput: 246.24 Mbit/s

95th percentile per-packet one-way delay: 1.187 ms

Loss rate: 0.07%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-11-30 11:05:36

End at: 2017-11-30 11:06:06

Local clock offset: -0.3 ms

Remote clock offset: -1.706 ms

Below is generated by plot.py at 2017-11-30 15:59:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 262.61 Mbit/s

95th percentile per-packet one-way delay: 1.116 ms

Loss rate: 0.07%

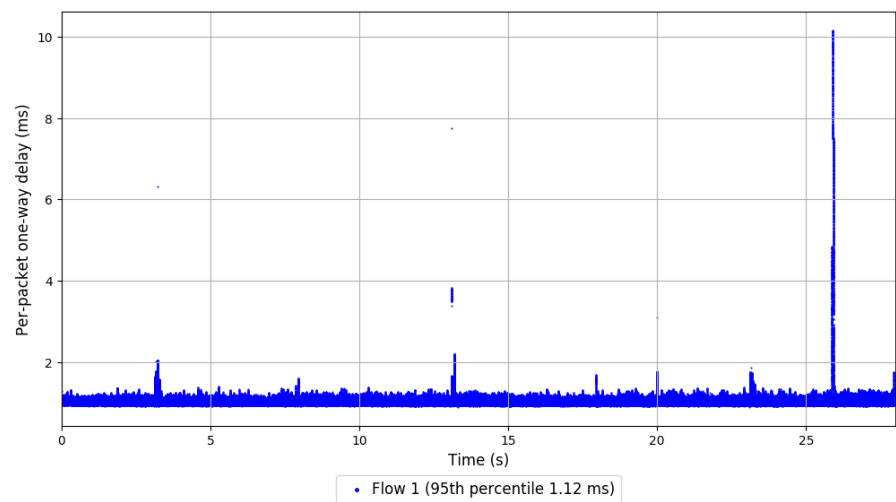
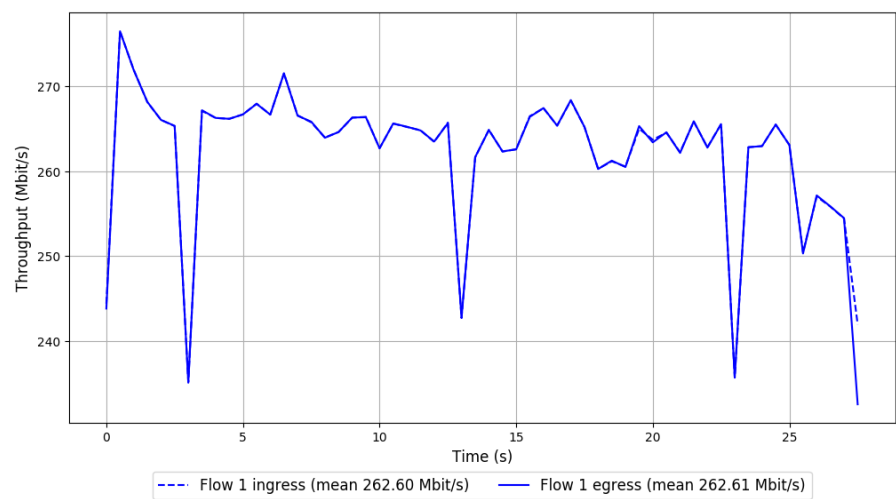
-- Flow 1:

Average throughput: 262.61 Mbit/s

95th percentile per-packet one-way delay: 1.116 ms

Loss rate: 0.07%

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

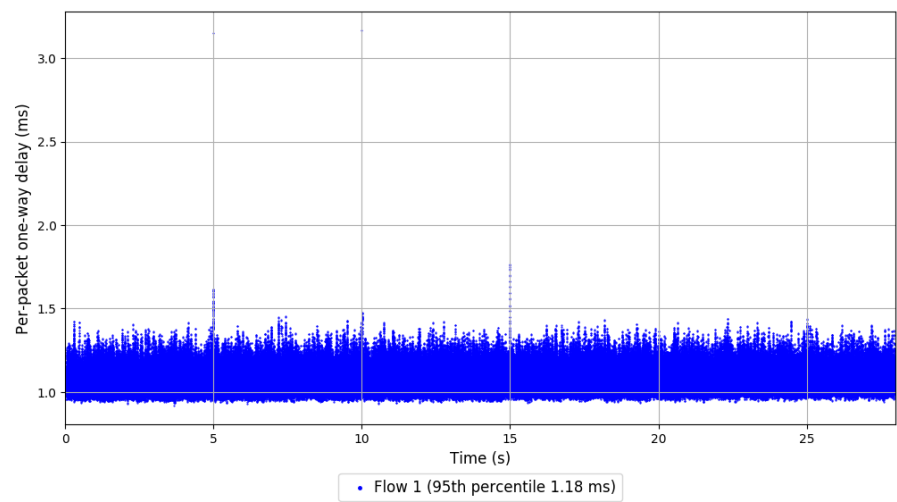
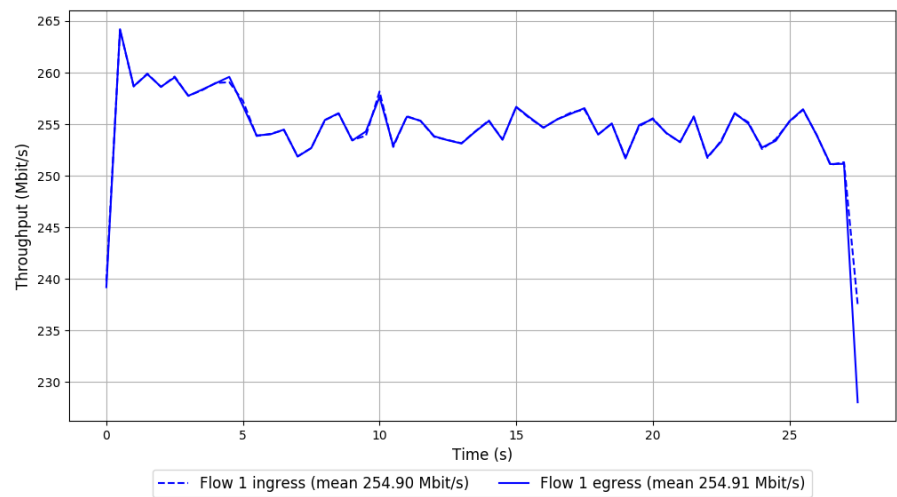


Run 9: Statistics of TaoVA-100x

Start at: 2017-11-30 11:24:37
End at: 2017-11-30 11:25:07
Local clock offset: -0.261 ms
Remote clock offset: -1.469 ms

Below is generated by plot.py at 2017-11-30 16:04:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 254.91 Mbit/s
95th percentile per-packet one-way delay: 1.180 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 254.91 Mbit/s
95th percentile per-packet one-way delay: 1.180 ms
Loss rate: 0.07%

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



Run 10: Statistics of TaoVA-100x

Start at: 2017-11-30 11:43:46

End at: 2017-11-30 11:44:16

Local clock offset: -0.157 ms

Remote clock offset: -1.236 ms

Below is generated by plot.py at 2017-11-30 16:04:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 245.47 Mbit/s

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

Loss rate: 0.07%

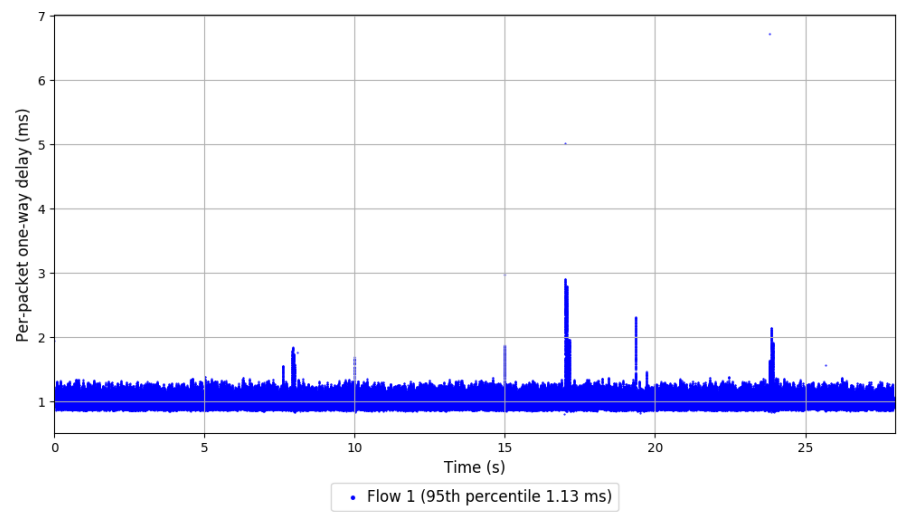
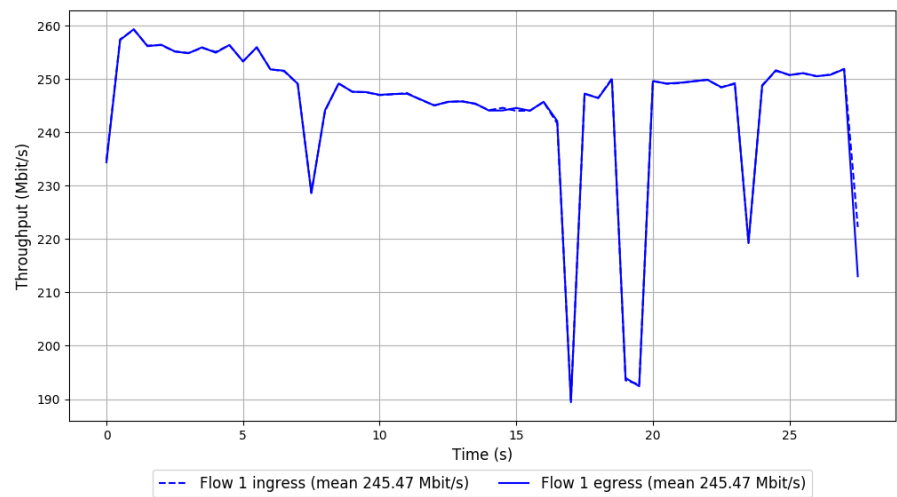
-- Flow 1:

Average throughput: 245.47 Mbit/s

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

Loss rate: 0.07%

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

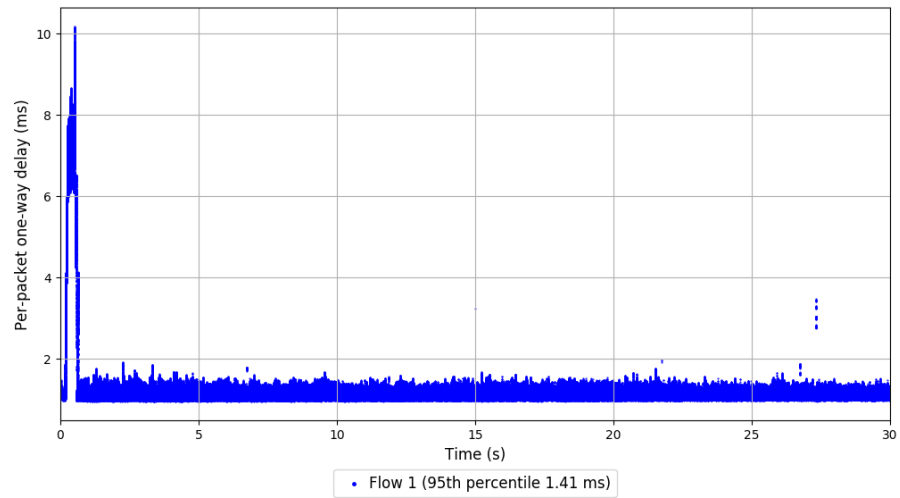
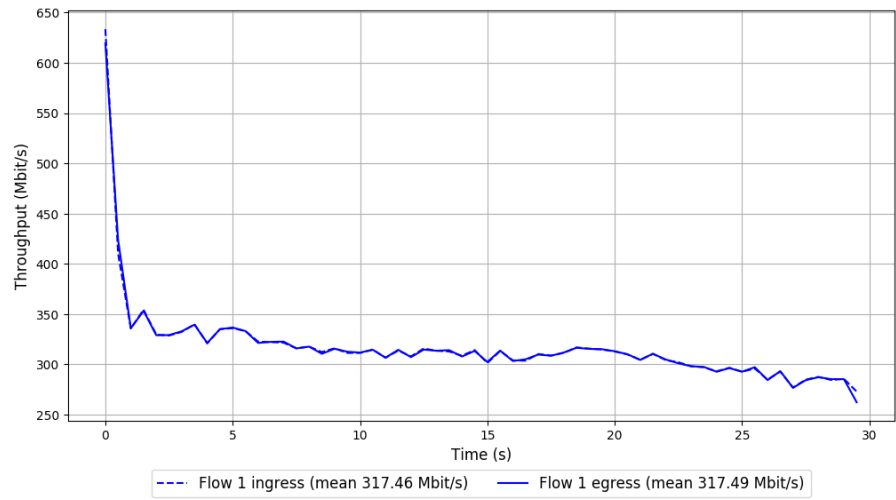


Run 1: Statistics of TCP Vegas

Start at: 2017-11-30 09:02:25
End at: 2017-11-30 09:02:55
Local clock offset: 0.04 ms
Remote clock offset: -2.974 ms

Below is generated by plot.py at 2017-11-30 16:04:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 317.49 Mbit/s
95th percentile per-packet one-way delay: 1.412 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 317.49 Mbit/s
95th percentile per-packet one-way delay: 1.412 ms
Loss rate: 0.06%

Run 1: Report of TCP Vegas — Data Link

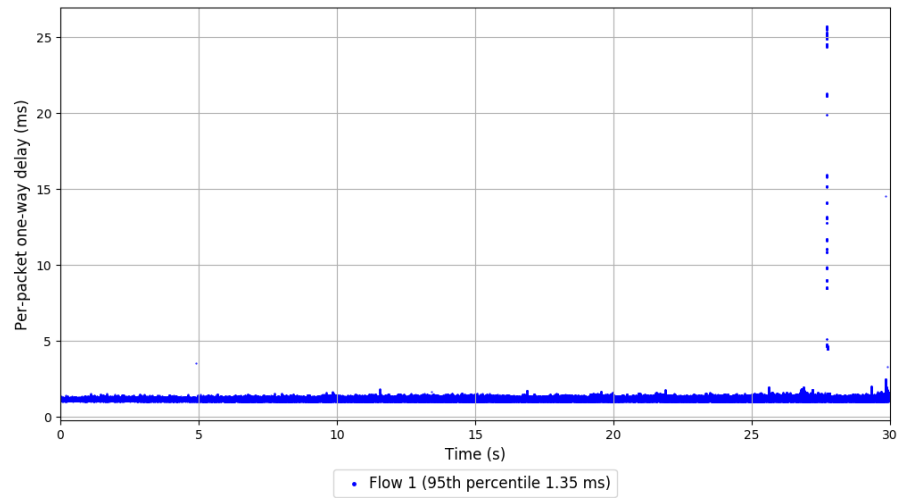
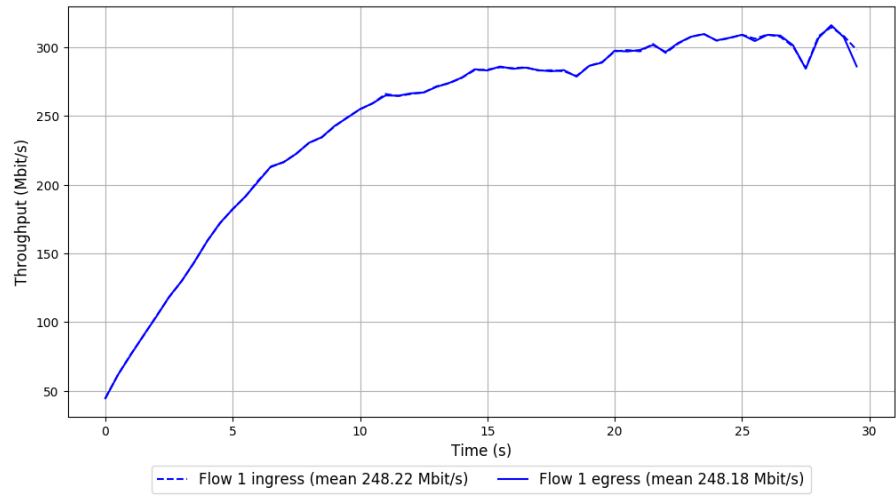


Run 2: Statistics of TCP Vegas

Start at: 2017-11-30 09:21:41
End at: 2017-11-30 09:22:11
Local clock offset: -0.092 ms
Remote clock offset: -2.794 ms

Below is generated by plot.py at 2017-11-30 16:04:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 248.18 Mbit/s
95th percentile per-packet one-way delay: 1.352 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 248.18 Mbit/s
95th percentile per-packet one-way delay: 1.352 ms
Loss rate: 0.09%

Run 2: Report of TCP Vegas — Data Link

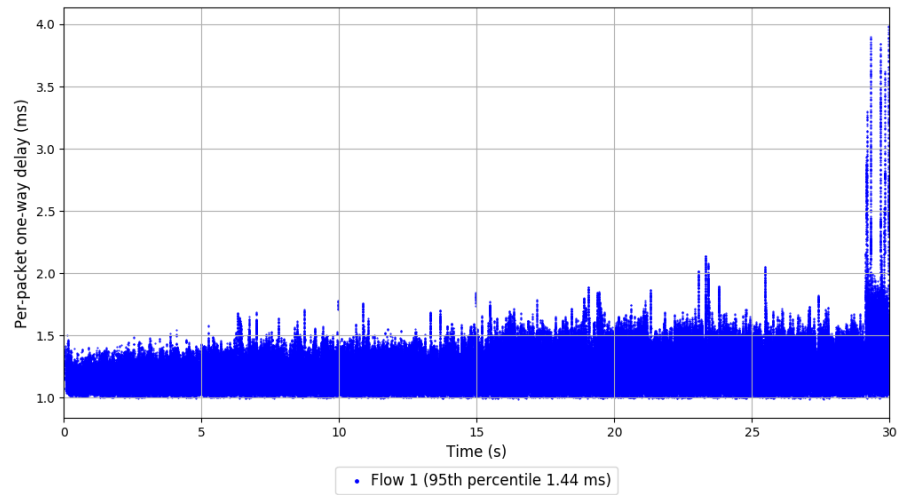
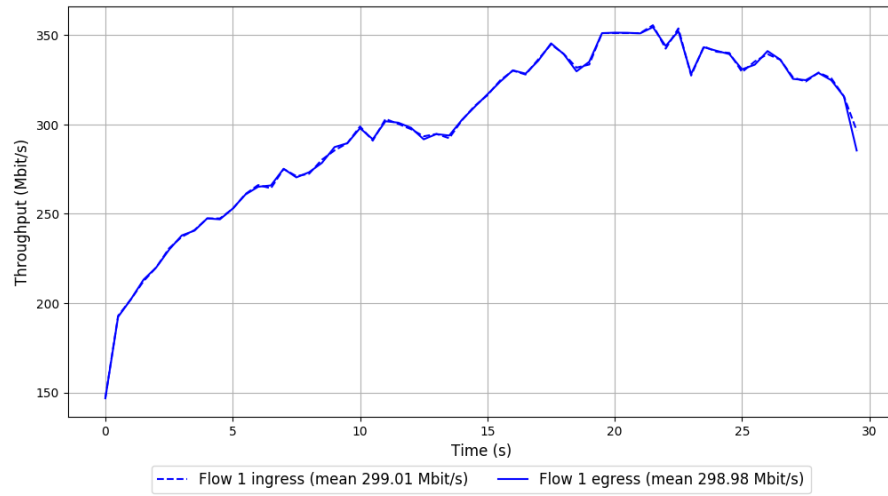


Run 3: Statistics of TCP Vegas

Start at: 2017-11-30 09:40:14
End at: 2017-11-30 09:40:44
Local clock offset: -0.188 ms
Remote clock offset: -2.828 ms

Below is generated by plot.py at 2017-11-30 16:04:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 298.98 Mbit/s
95th percentile per-packet one-way delay: 1.436 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 298.98 Mbit/s
95th percentile per-packet one-way delay: 1.436 ms
Loss rate: 0.07%

Run 3: Report of TCP Vegas — Data Link

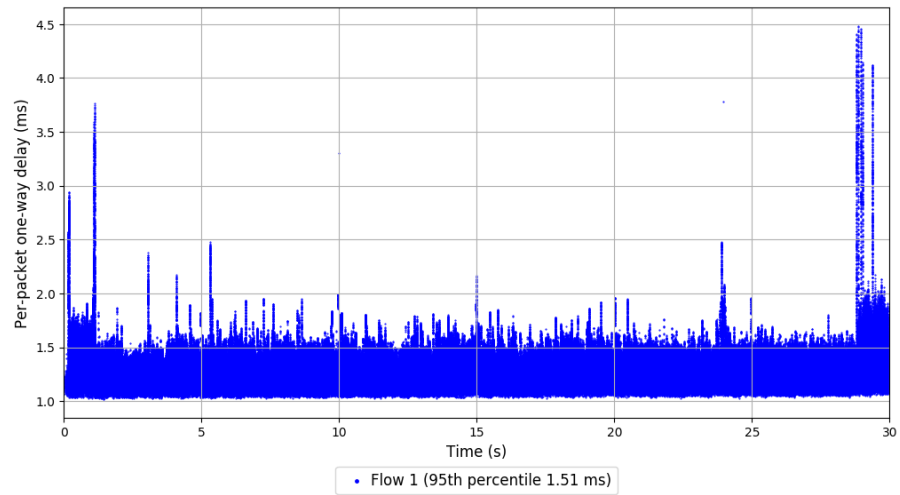
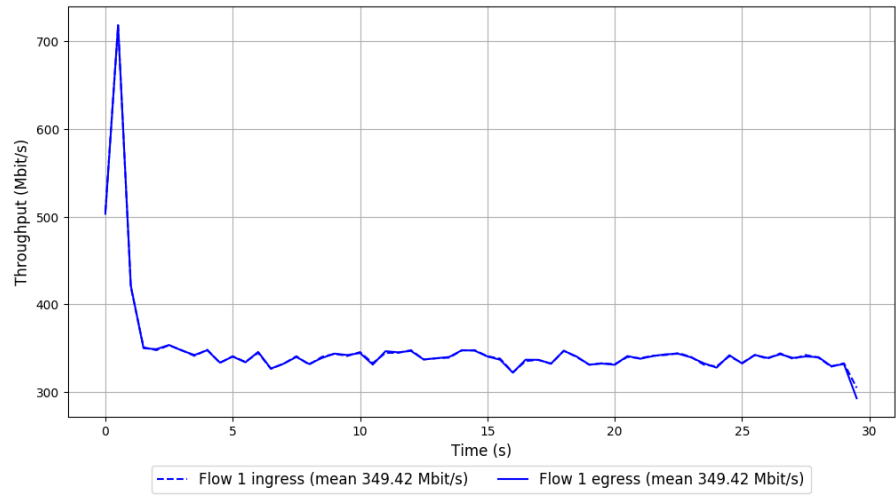


Run 4: Statistics of TCP Vegas

Start at: 2017-11-30 09:59:02
End at: 2017-11-30 09:59:32
Local clock offset: -0.195 ms
Remote clock offset: -2.447 ms

Below is generated by plot.py at 2017-11-30 16:04:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 349.42 Mbit/s
95th percentile per-packet one-way delay: 1.509 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 349.42 Mbit/s
95th percentile per-packet one-way delay: 1.509 ms
Loss rate: 0.06%

Run 4: Report of TCP Vegas — Data Link

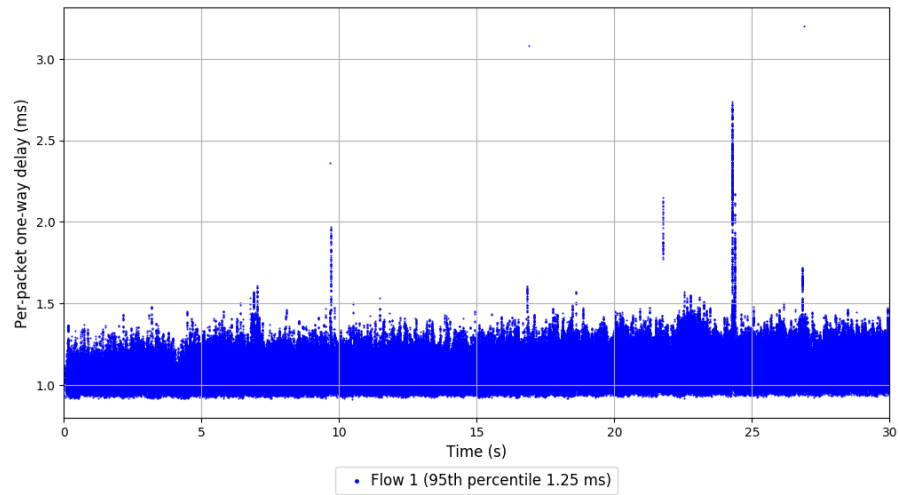
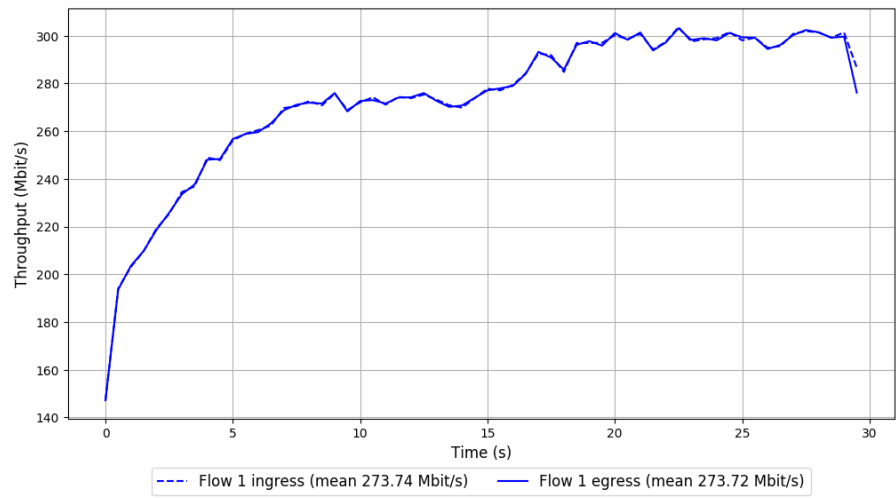


Run 5: Statistics of TCP Vegas

Start at: 2017-11-30 10:17:59
End at: 2017-11-30 10:18:29
Local clock offset: -0.371 ms
Remote clock offset: -1.677 ms

Below is generated by plot.py at 2017-11-30 16:04:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 273.72 Mbit/s
95th percentile per-packet one-way delay: 1.255 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 273.72 Mbit/s
95th percentile per-packet one-way delay: 1.255 ms
Loss rate: 0.07%

Run 5: Report of TCP Vegas — Data Link

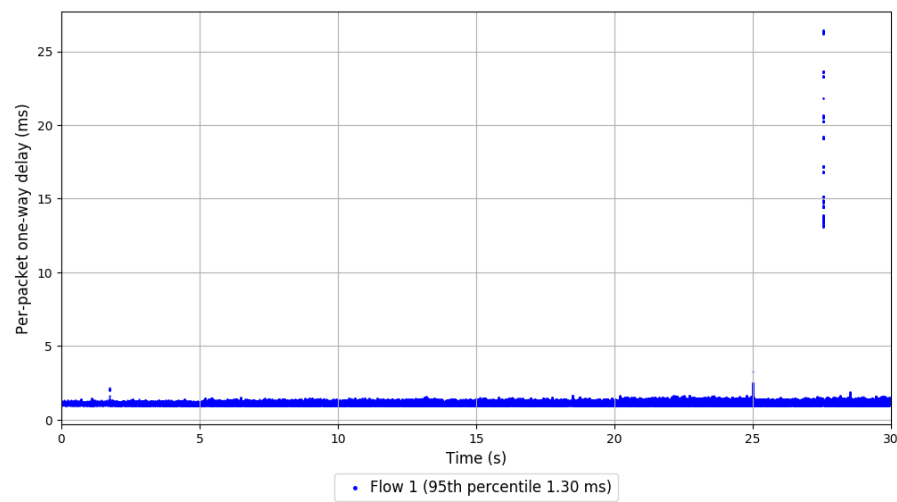
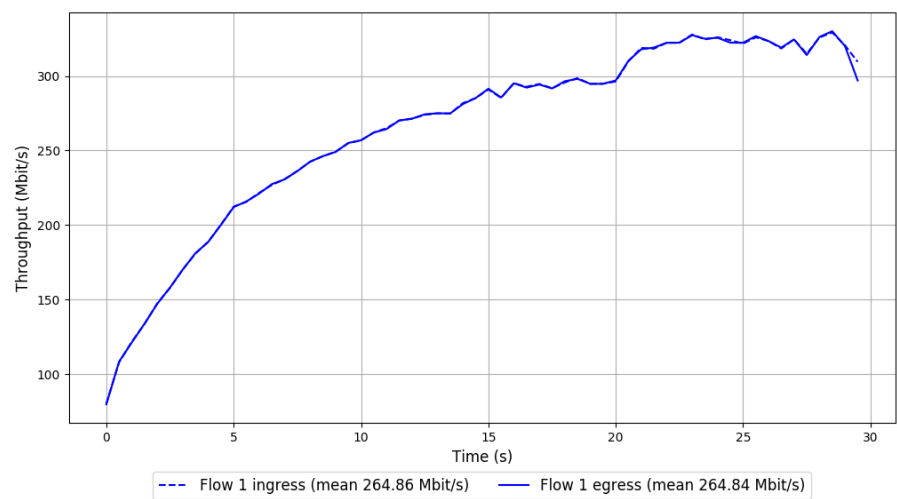


Run 6: Statistics of TCP Vegas

Start at: 2017-11-30 10:37:28
End at: 2017-11-30 10:37:58
Local clock offset: -0.268 ms
Remote clock offset: -1.657 ms

Below is generated by plot.py at 2017-11-30 16:04:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 264.84 Mbit/s
95th percentile per-packet one-way delay: 1.302 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 264.84 Mbit/s
95th percentile per-packet one-way delay: 1.302 ms
Loss rate: 0.08%

Run 6: Report of TCP Vegas — Data Link

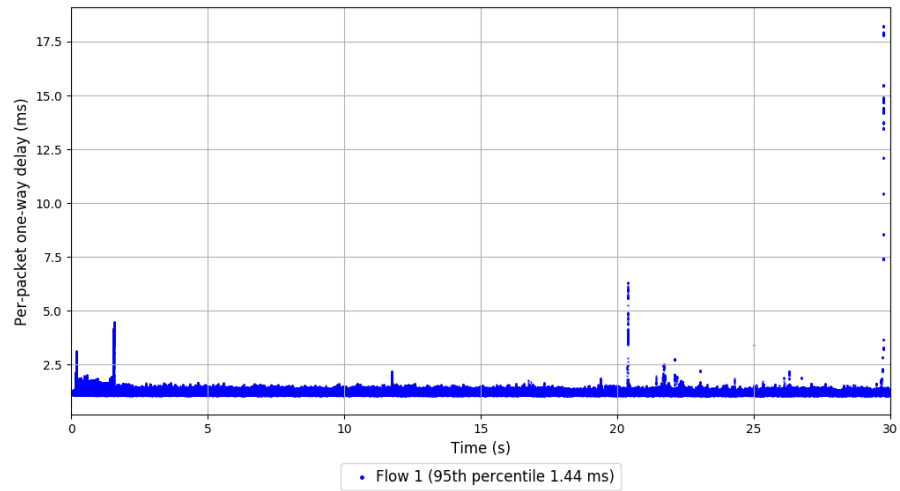
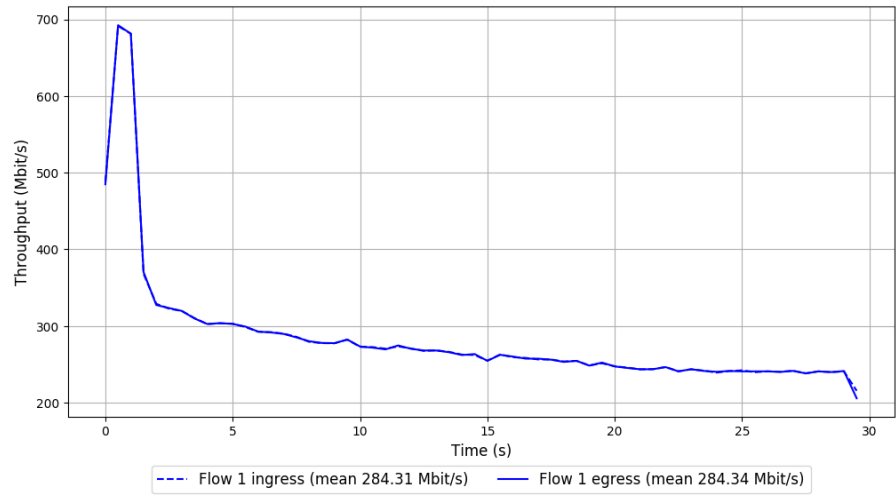


Run 7: Statistics of TCP Vegas

Start at: 2017-11-30 10:56:09
End at: 2017-11-30 10:56:39
Local clock offset: -0.221 ms
Remote clock offset: -1.601 ms

Below is generated by plot.py at 2017-11-30 16:05:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 284.34 Mbit/s
95th percentile per-packet one-way delay: 1.435 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 284.34 Mbit/s
95th percentile per-packet one-way delay: 1.435 ms
Loss rate: 0.06%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

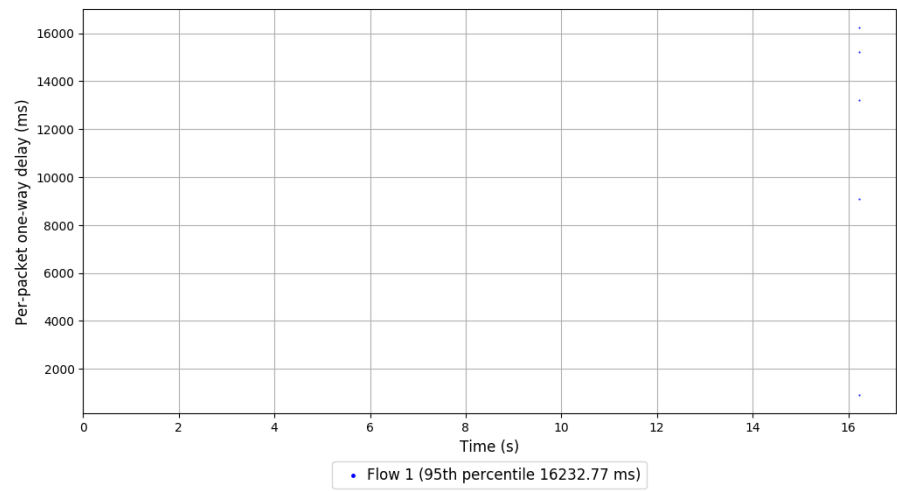
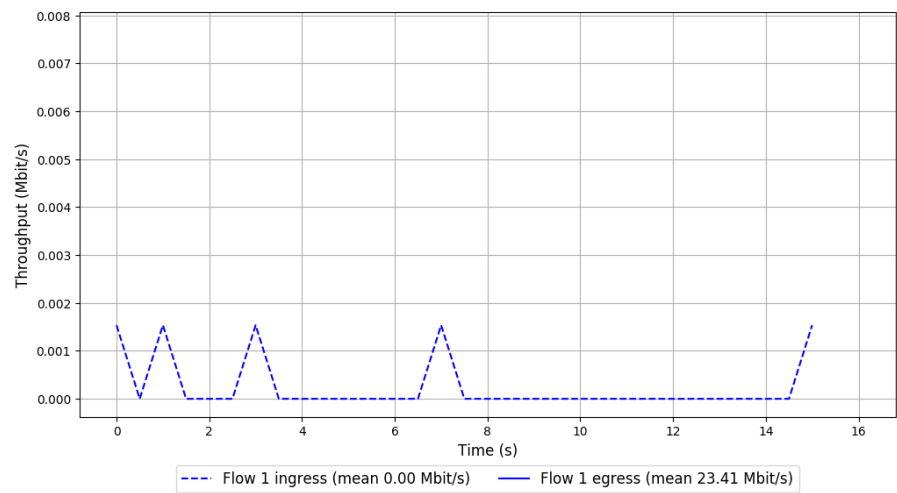
Start at: 2017-11-30 11:15:24

End at: 2017-11-30 11:15:54

Local clock offset: -0.275 ms

Remote clock offset: -1.629 ms

Run 8: Report of TCP Vegas — Data Link

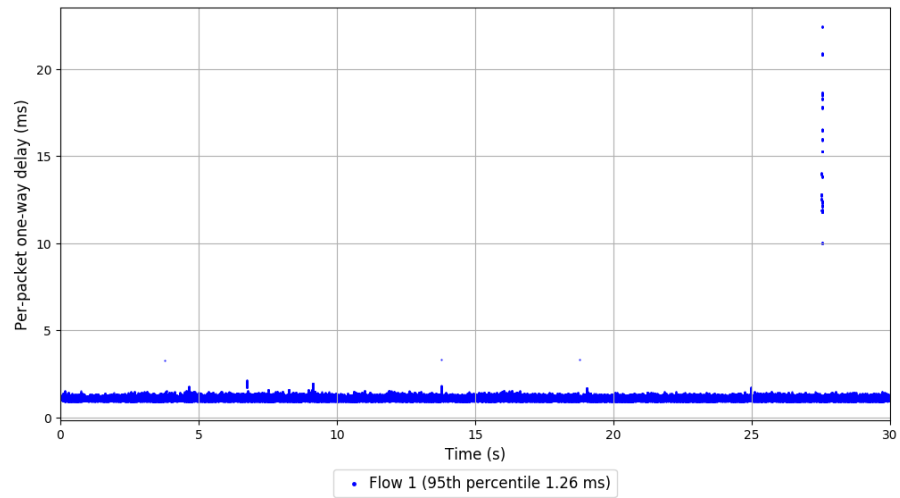
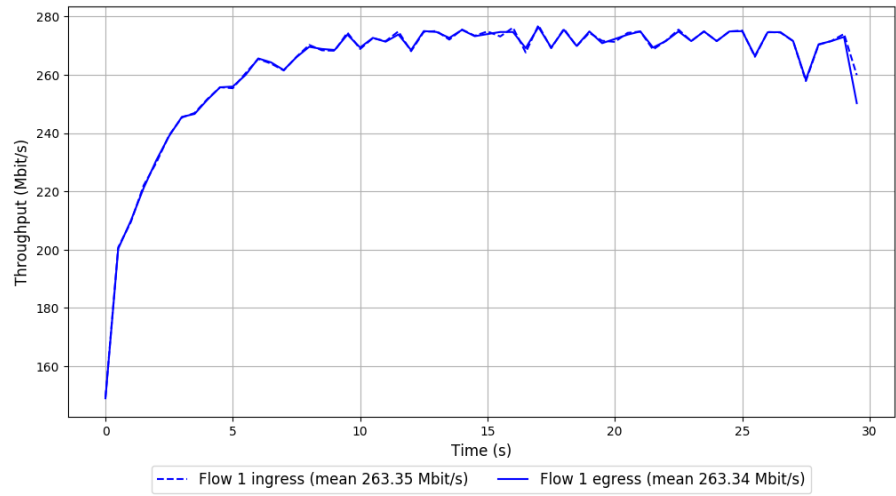


Run 9: Statistics of TCP Vegas

Start at: 2017-11-30 11:34:31
End at: 2017-11-30 11:35:01
Local clock offset: -0.216 ms
Remote clock offset: -1.348 ms

Below is generated by plot.py at 2017-11-30 16:05:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 263.34 Mbit/s
95th percentile per-packet one-way delay: 1.256 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 263.34 Mbit/s
95th percentile per-packet one-way delay: 1.256 ms
Loss rate: 0.07%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

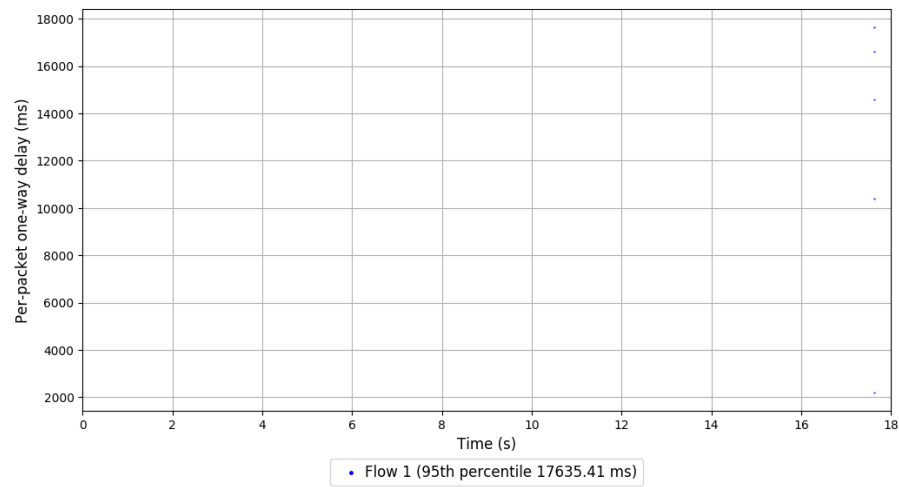
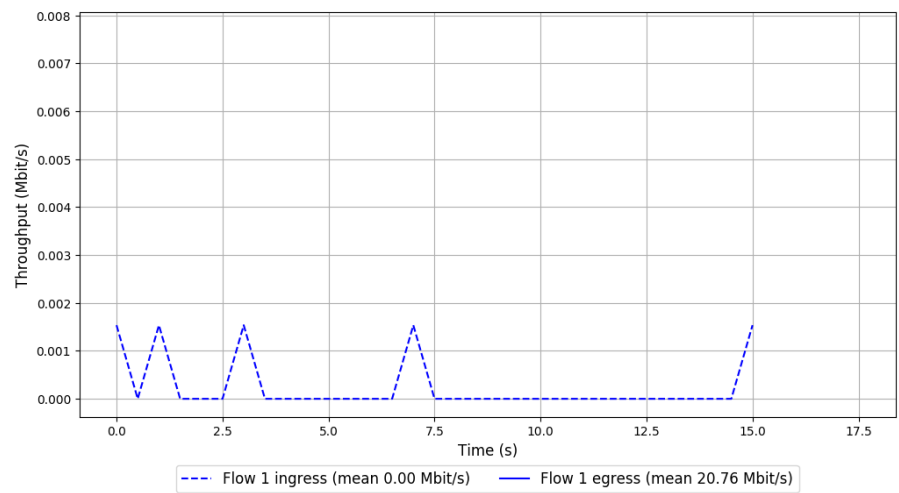
Start at: 2017-11-30 11:53:36

End at: 2017-11-30 11:54:06

Local clock offset: -0.101 ms

Remote clock offset: -1.257 ms

Run 10: Report of TCP Vegas — Data Link

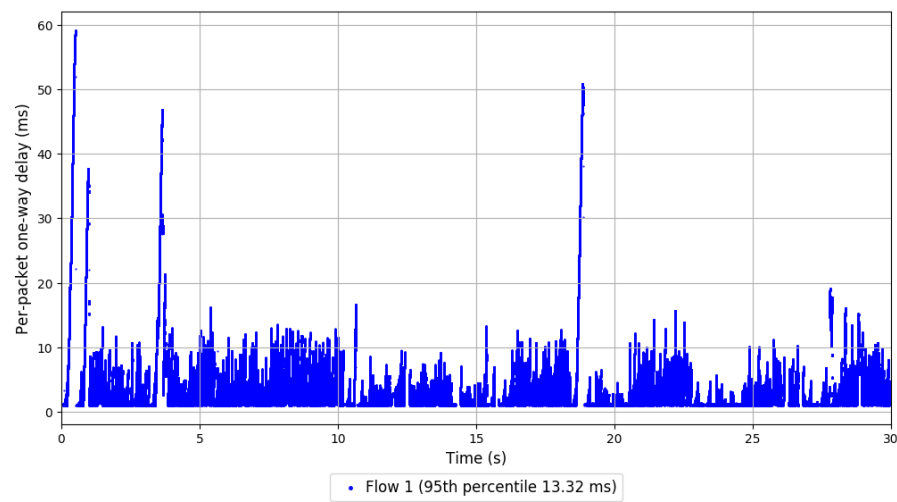
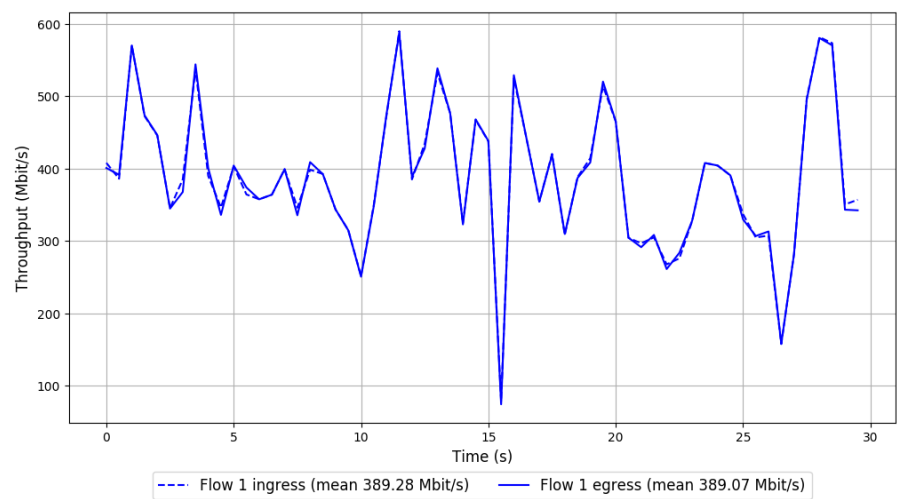


Run 1: Statistics of Verus

Start at: 2017-11-30 08:56:40
End at: 2017-11-30 08:57:10
Local clock offset: 0.087 ms
Remote clock offset: -3.197 ms

Below is generated by plot.py at 2017-11-30 16:07:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 389.07 Mbit/s
95th percentile per-packet one-way delay: 13.322 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 389.07 Mbit/s
95th percentile per-packet one-way delay: 13.322 ms
Loss rate: 0.12%

Run 1: Report of Verus — Data Link

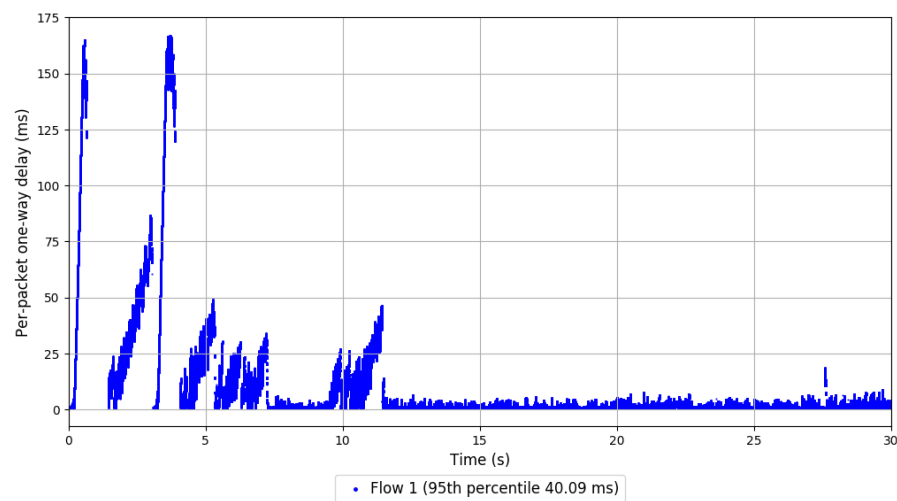
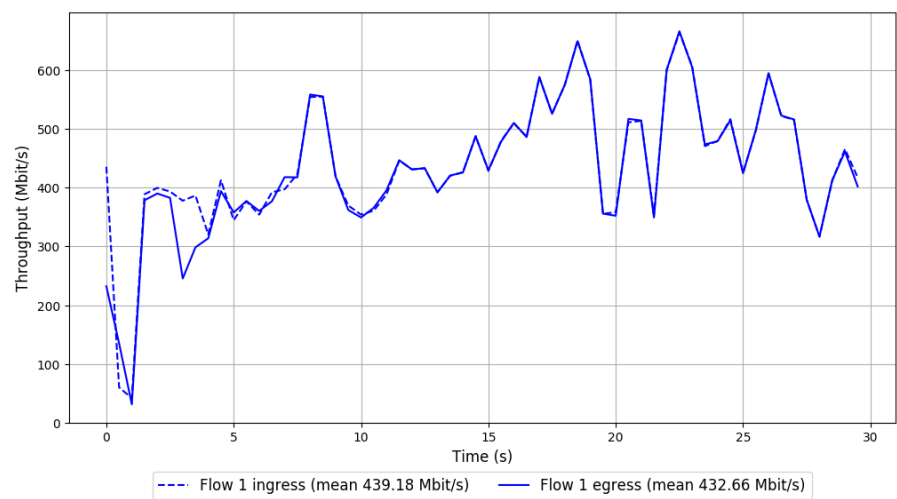


Run 2: Statistics of Verus

Start at: 2017-11-30 09:15:40
End at: 2017-11-30 09:16:10
Local clock offset: -0.135 ms
Remote clock offset: -2.719 ms

Below is generated by plot.py at 2017-11-30 16:08:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 432.66 Mbit/s
95th percentile per-packet one-way delay: 40.086 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 432.66 Mbit/s
95th percentile per-packet one-way delay: 40.086 ms
Loss rate: 1.55%

Run 2: Report of Verus — Data Link

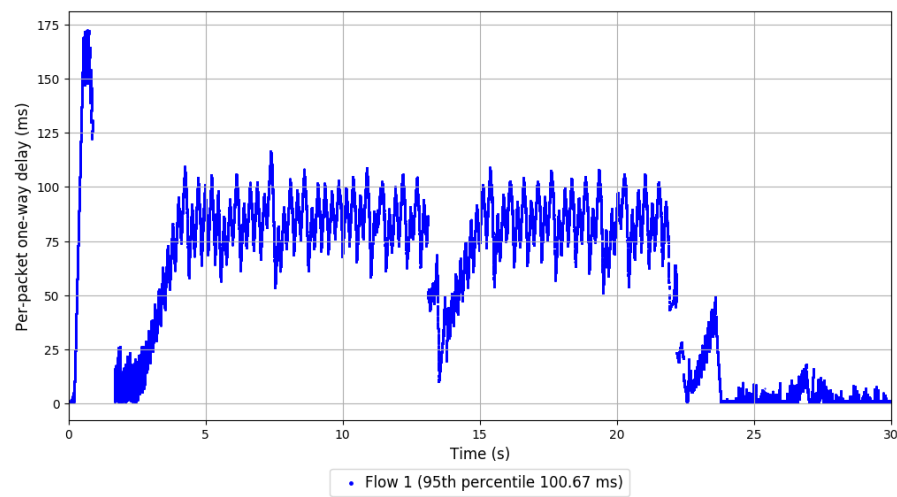
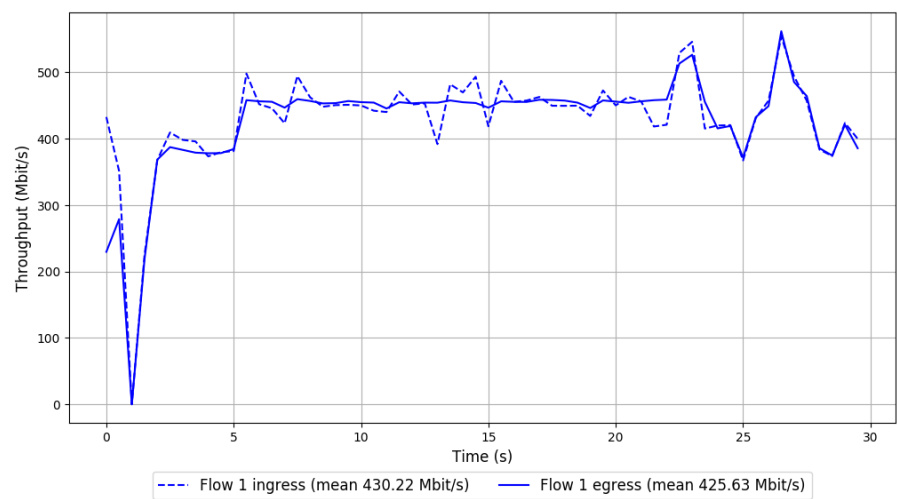


Run 3: Statistics of Verus

Start at: 2017-11-30 09:34:33
End at: 2017-11-30 09:35:03
Local clock offset: -0.264 ms
Remote clock offset: -2.753 ms

Below is generated by plot.py at 2017-11-30 16:09:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 425.63 Mbit/s
95th percentile per-packet one-way delay: 100.673 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 425.63 Mbit/s
95th percentile per-packet one-way delay: 100.673 ms
Loss rate: 1.13%

Run 3: Report of Verus — Data Link

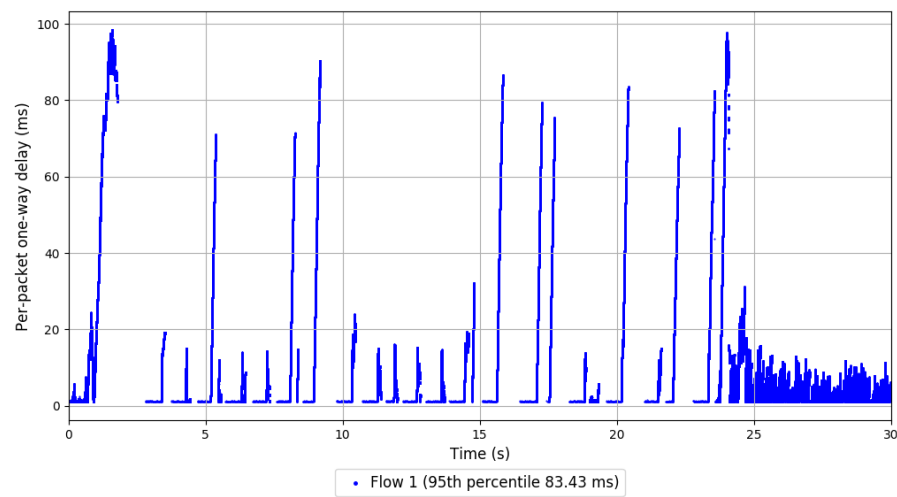
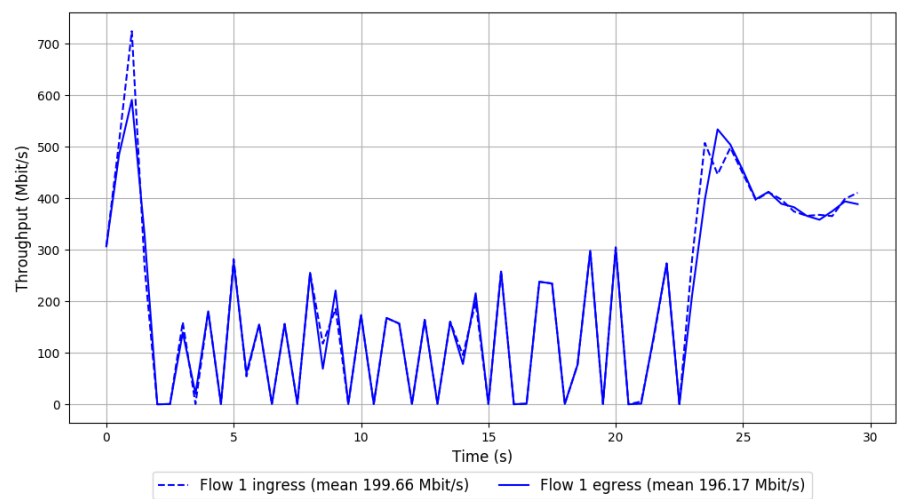


Run 4: Statistics of Verus

Start at: 2017-11-30 09:53:31
End at: 2017-11-30 09:54:01
Local clock offset: -0.195 ms
Remote clock offset: -2.604 ms

Below is generated by plot.py at 2017-11-30 16:09:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 196.17 Mbit/s
95th percentile per-packet one-way delay: 83.432 ms
Loss rate: 1.81%
-- Flow 1:
Average throughput: 196.17 Mbit/s
95th percentile per-packet one-way delay: 83.432 ms
Loss rate: 1.81%

Run 4: Report of Verus — Data Link

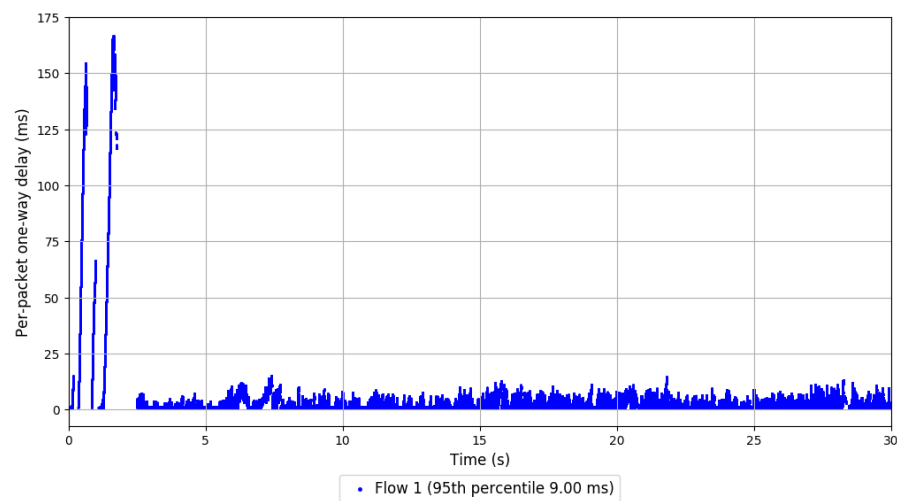
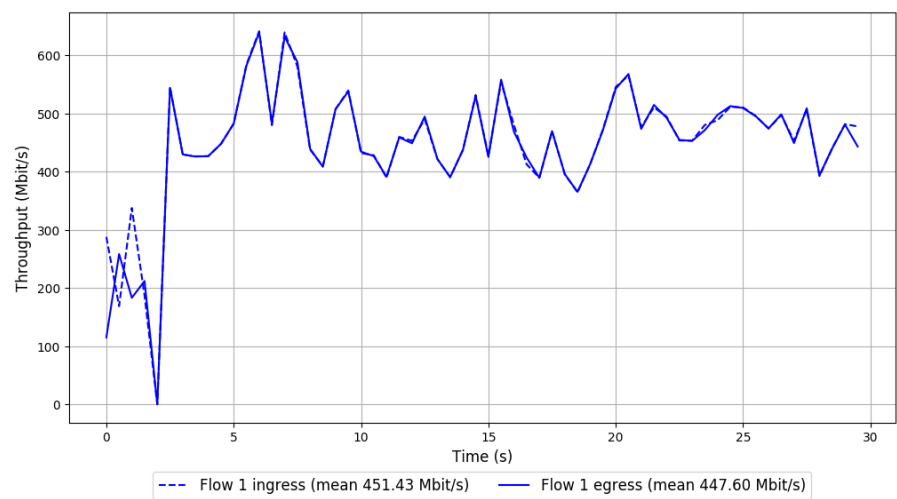


Run 5: Statistics of Verus

Start at: 2017-11-30 10:12:18
End at: 2017-11-30 10:12:48
Local clock offset: -0.352 ms
Remote clock offset: -1.855 ms

Below is generated by plot.py at 2017-11-30 16:10:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 447.60 Mbit/s
95th percentile per-packet one-way delay: 9.003 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 447.60 Mbit/s
95th percentile per-packet one-way delay: 9.003 ms
Loss rate: 0.92%

Run 5: Report of Verus — Data Link

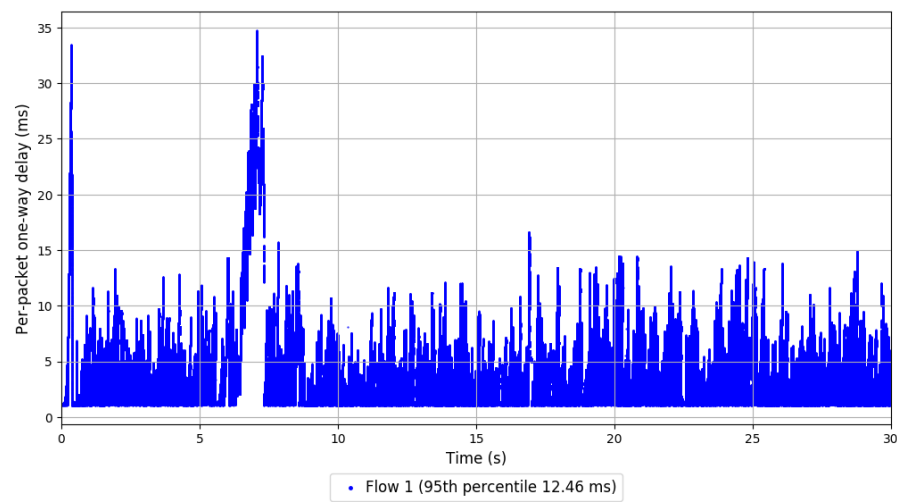
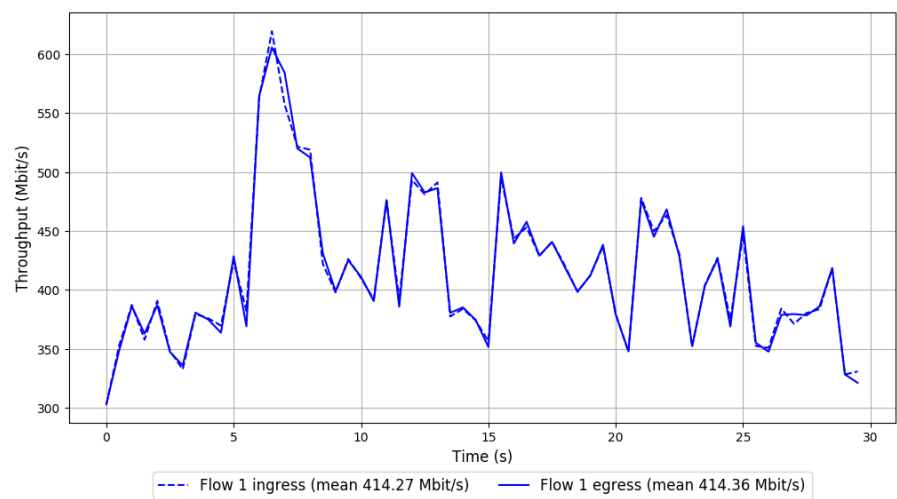


Run 6: Statistics of Verus

Start at: 2017-11-30 10:31:15
End at: 2017-11-30 10:31:45
Local clock offset: -0.255 ms
Remote clock offset: -1.702 ms

Below is generated by plot.py at 2017-11-30 16:10:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 414.36 Mbit/s
95th percentile per-packet one-way delay: 12.461 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 414.36 Mbit/s
95th percentile per-packet one-way delay: 12.461 ms
Loss rate: 0.04%

Run 6: Report of Verus — Data Link

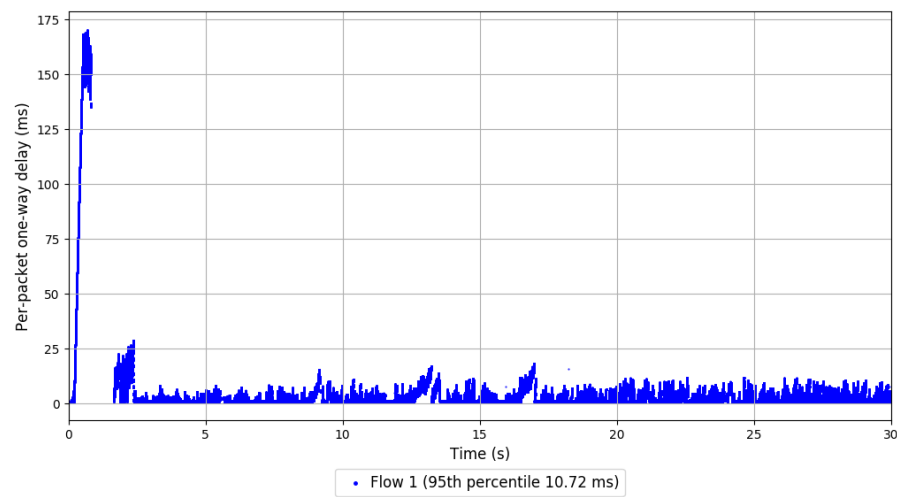
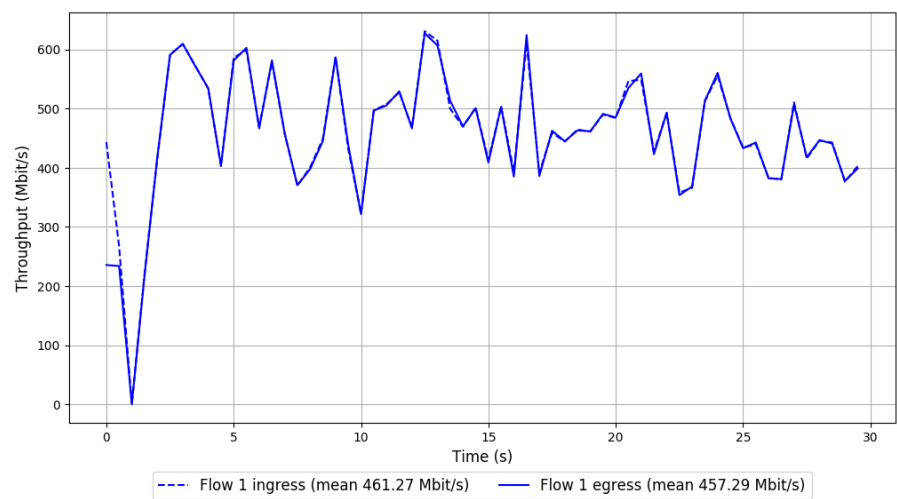


Run 7: Statistics of Verus

Start at: 2017-11-30 10:50:16
End at: 2017-11-30 10:50:46
Local clock offset: -0.368 ms
Remote clock offset: -1.667 ms

Below is generated by plot.py at 2017-11-30 16:12:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 457.29 Mbit/s
95th percentile per-packet one-way delay: 10.718 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 457.29 Mbit/s
95th percentile per-packet one-way delay: 10.718 ms
Loss rate: 0.89%

Run 7: Report of Verus — Data Link

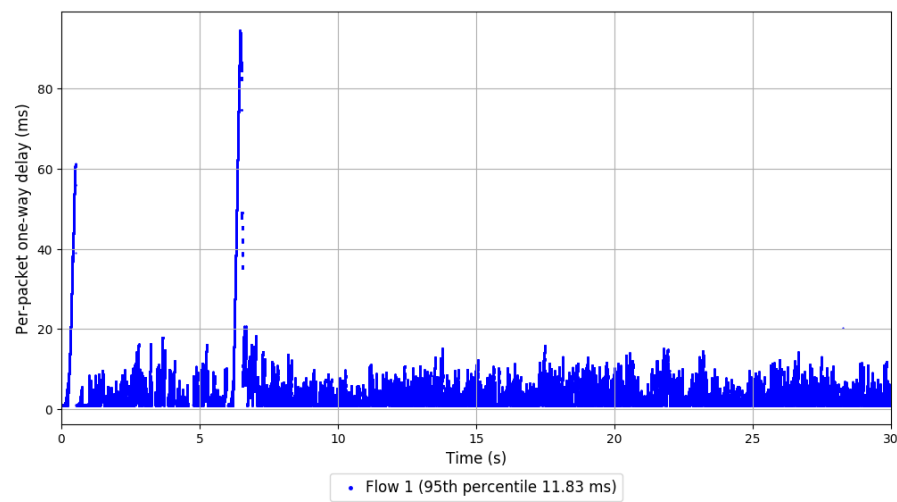
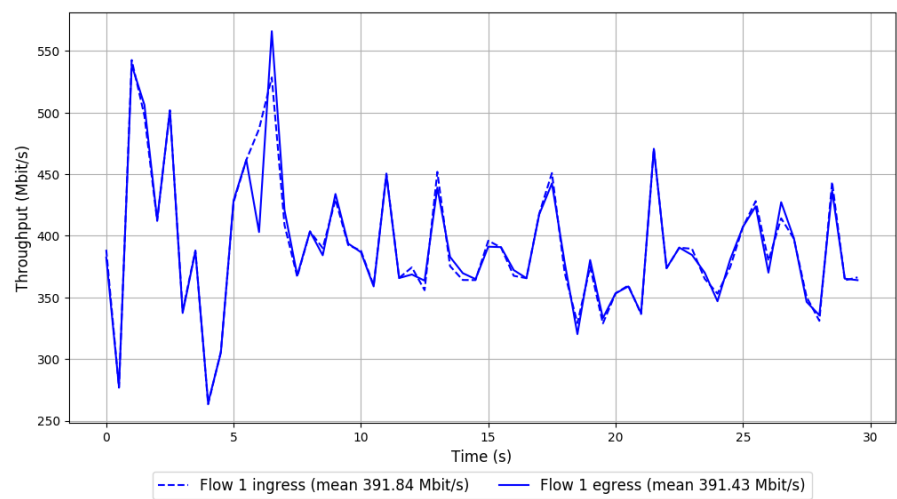


Run 8: Statistics of Verus

Start at: 2017-11-30 11:09:24
End at: 2017-11-30 11:09:54
Local clock offset: -0.305 ms
Remote clock offset: -1.662 ms

Below is generated by plot.py at 2017-11-30 16:12:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 391.43 Mbit/s
95th percentile per-packet one-way delay: 11.830 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 391.43 Mbit/s
95th percentile per-packet one-way delay: 11.830 ms
Loss rate: 0.17%

Run 8: Report of Verus — Data Link

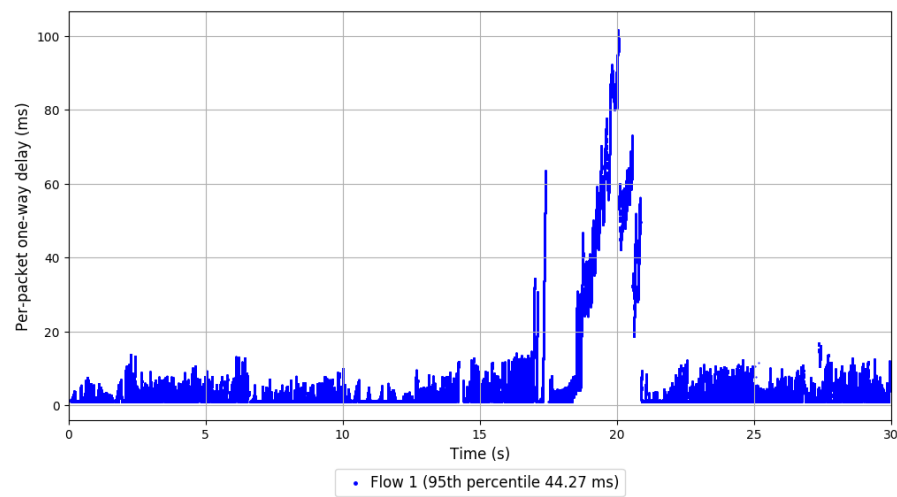
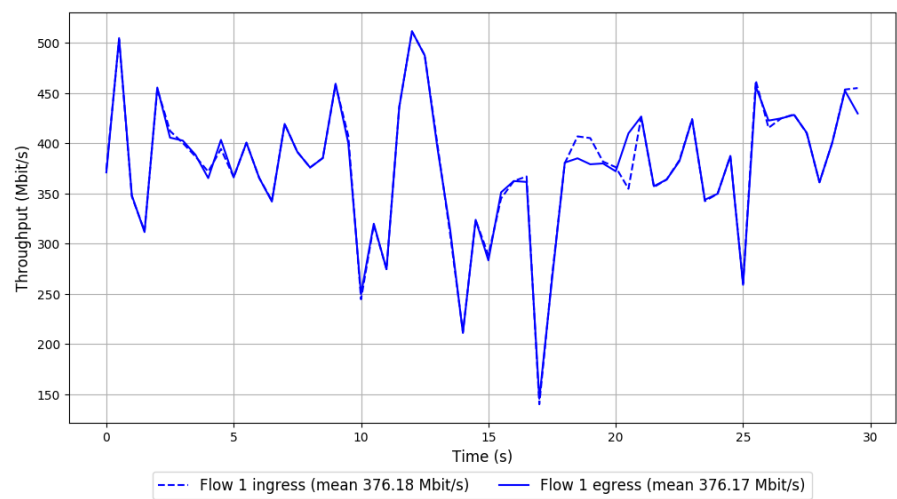


Run 9: Statistics of Verus

Start at: 2017-11-30 11:28:26
End at: 2017-11-30 11:28:56
Local clock offset: -0.145 ms
Remote clock offset: -1.275 ms

Below is generated by plot.py at 2017-11-30 16:12:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 376.17 Mbit/s
95th percentile per-packet one-way delay: 44.271 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 376.17 Mbit/s
95th percentile per-packet one-way delay: 44.271 ms
Loss rate: 0.12%

Run 9: Report of Verus — Data Link

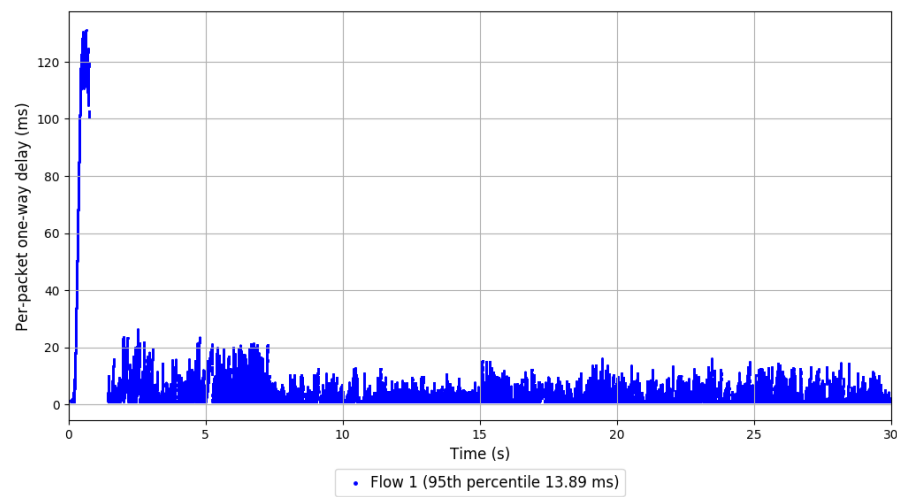
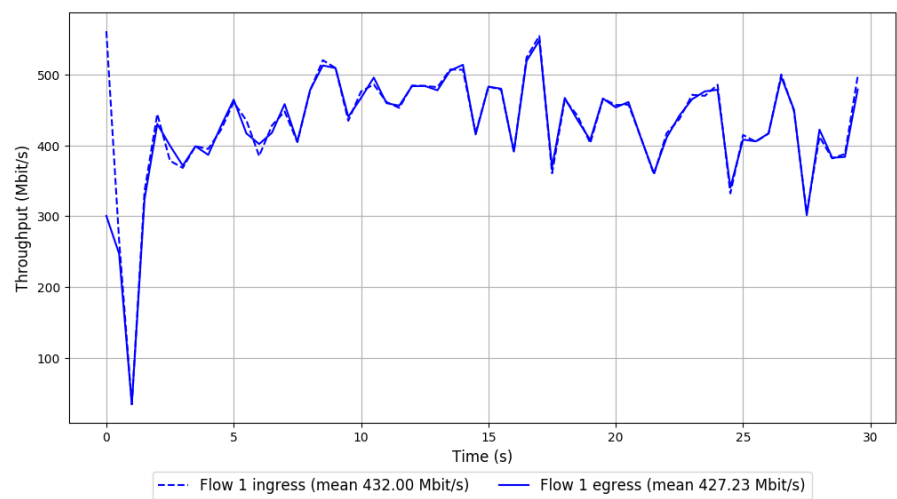


Run 10: Statistics of Verus

Start at: 2017-11-30 11:47:33
End at: 2017-11-30 11:48:03
Local clock offset: -0.151 ms
Remote clock offset: -1.305 ms

Below is generated by plot.py at 2017-11-30 16:14:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 427.23 Mbit/s
95th percentile per-packet one-way delay: 13.891 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 427.23 Mbit/s
95th percentile per-packet one-way delay: 13.891 ms
Loss rate: 1.17%

Run 10: Report of Verus — Data Link

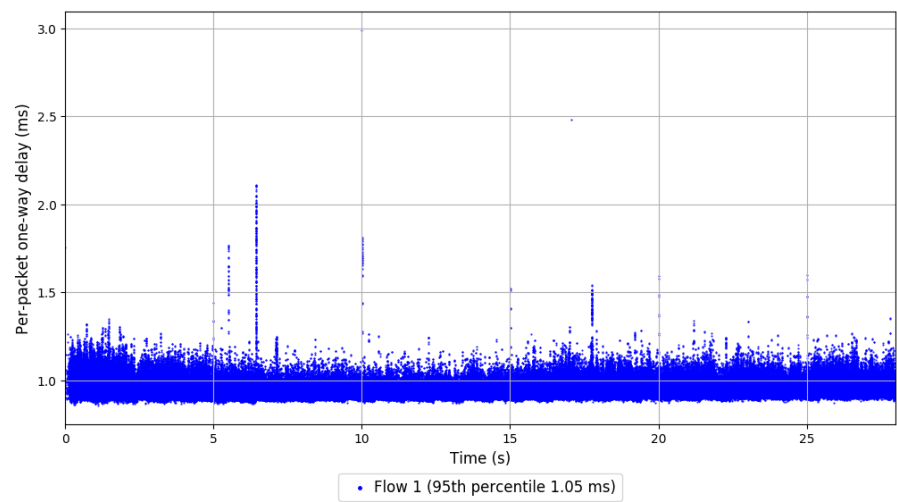
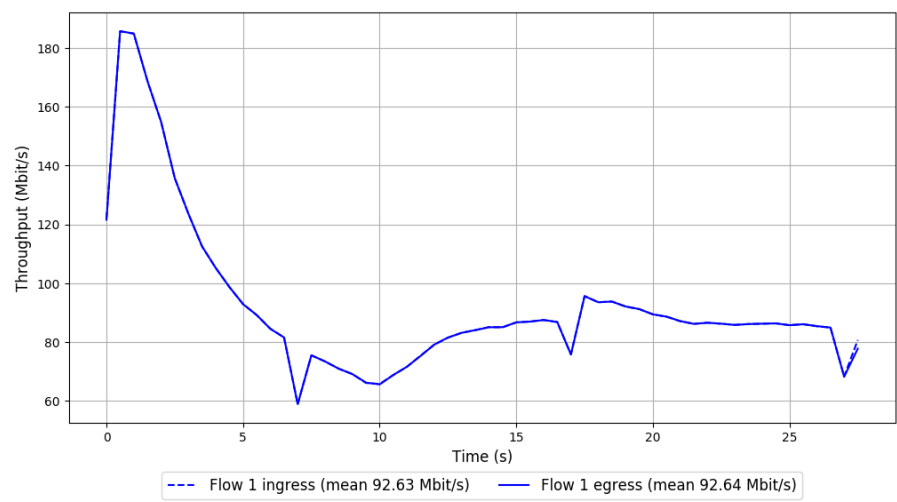


Run 1: Statistics of Copa

Start at: 2017-11-30 08:59:42
End at: 2017-11-30 09:00:12
Local clock offset: -0.028 ms
Remote clock offset: -3.077 ms

Below is generated by plot.py at 2017-11-30 16:14:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.64 Mbit/s
95th percentile per-packet one-way delay: 1.051 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 92.64 Mbit/s
95th percentile per-packet one-way delay: 1.051 ms
Loss rate: 0.06%

Run 1: Report of Copa — Data Link

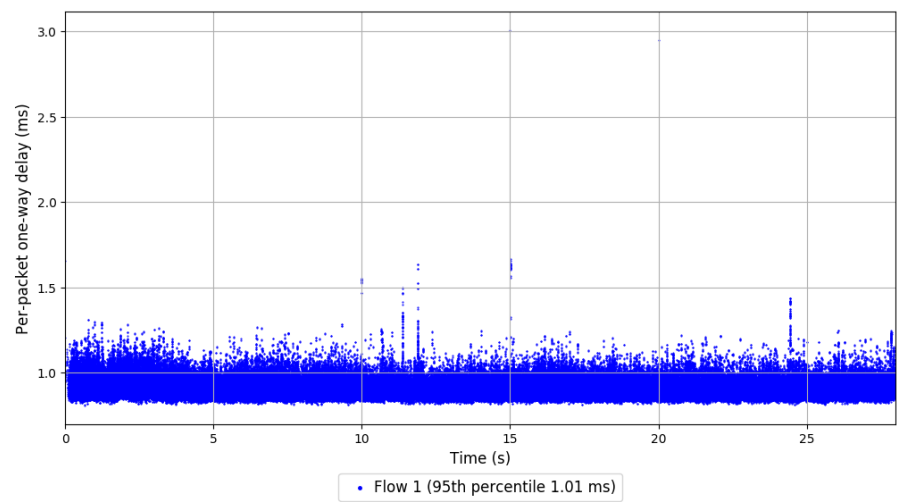
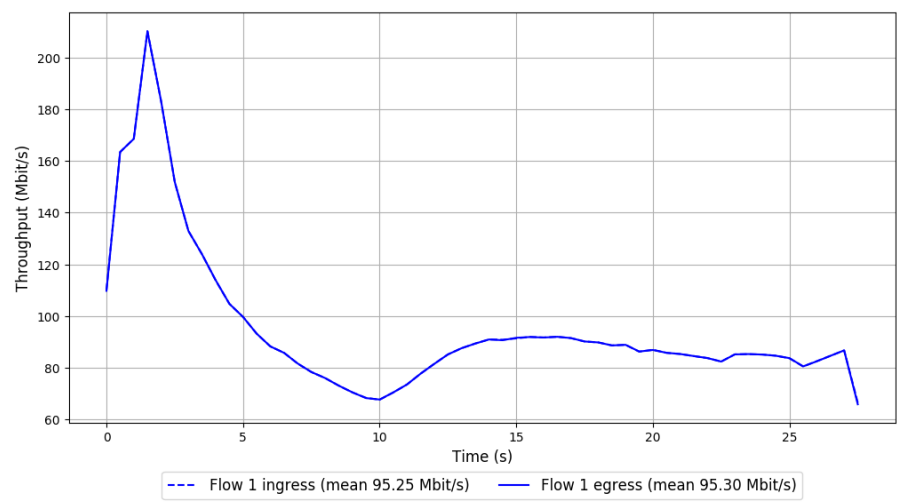


Run 2: Statistics of Copa

Start at: 2017-11-30 09:18:43
End at: 2017-11-30 09:19:14
Local clock offset: -0.136 ms
Remote clock offset: -2.672 ms

Below is generated by plot.py at 2017-11-30 16:14:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.30 Mbit/s
95th percentile per-packet one-way delay: 1.008 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 95.30 Mbit/s
95th percentile per-packet one-way delay: 1.008 ms
Loss rate: 0.01%

Run 2: Report of Copa — Data Link

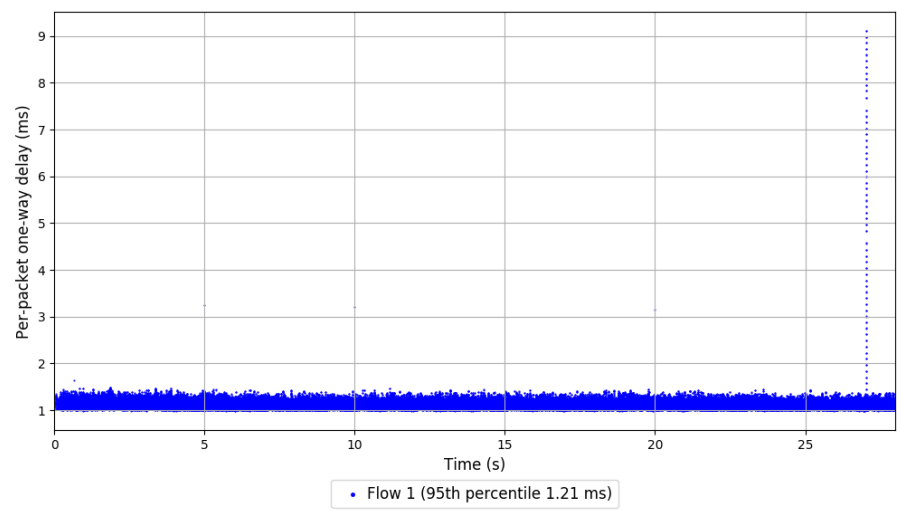
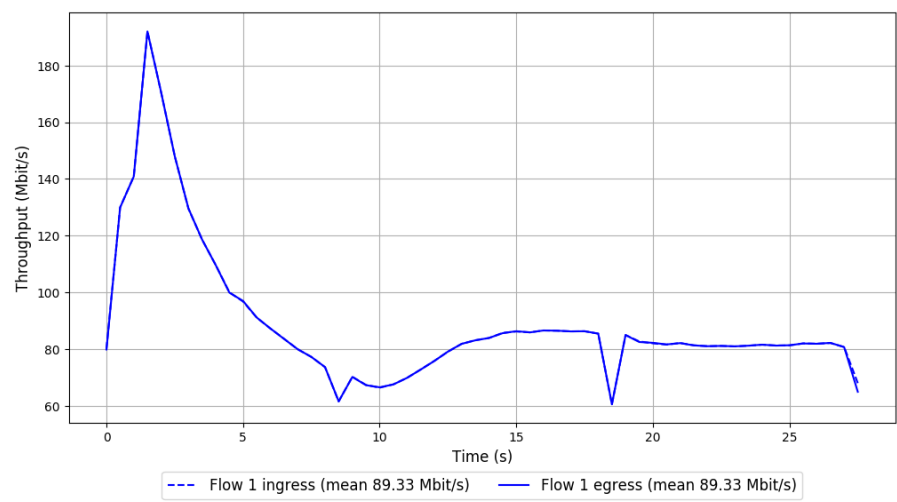


Run 3: Statistics of Copa

Start at: 2017-11-30 09:37:35
End at: 2017-11-30 09:38:05
Local clock offset: -0.166 ms
Remote clock offset: -2.772 ms

Below is generated by plot.py at 2017-11-30 16:14:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.33 Mbit/s
95th percentile per-packet one-way delay: 1.214 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 89.33 Mbit/s
95th percentile per-packet one-way delay: 1.214 ms
Loss rate: 0.06%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-11-30 09:56:20

End at: 2017-11-30 09:56:50

Local clock offset: -0.187 ms

Remote clock offset: -2.52 ms

Below is generated by plot.py at 2017-11-30 16:14:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.36 Mbit/s

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

Loss rate: 0.07%

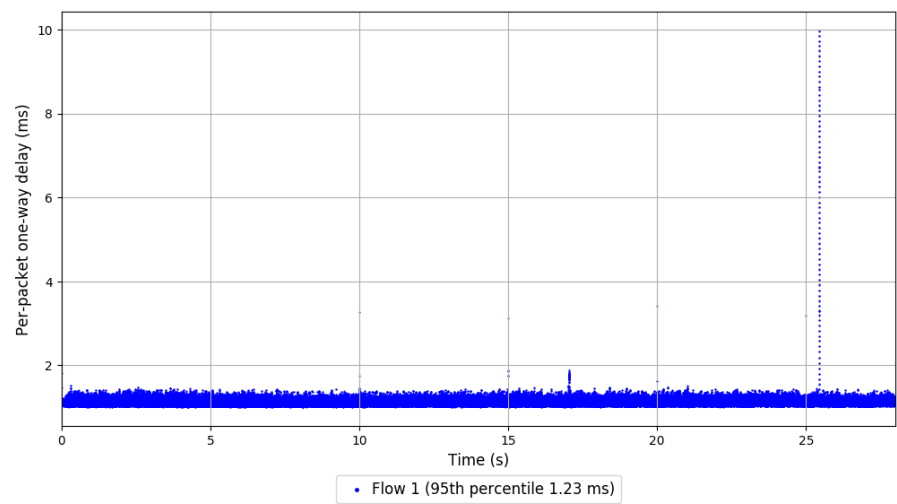
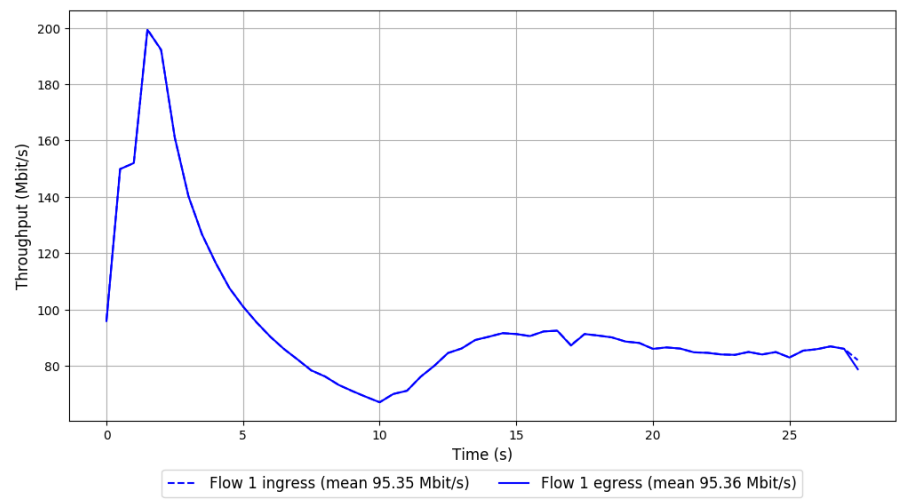
-- Flow 1:

Average throughput: 95.36 Mbit/s

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

Loss rate: 0.07%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-30 10:15:20

End at: 2017-11-30 10:15:50

Local clock offset: -0.366 ms

Remote clock offset: -1.79 ms

Below is generated by plot.py at 2017-11-30 16:14:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.86 Mbit/s

95th percentile per-packet one-way delay: 1.151 ms

Loss rate: 0.07%

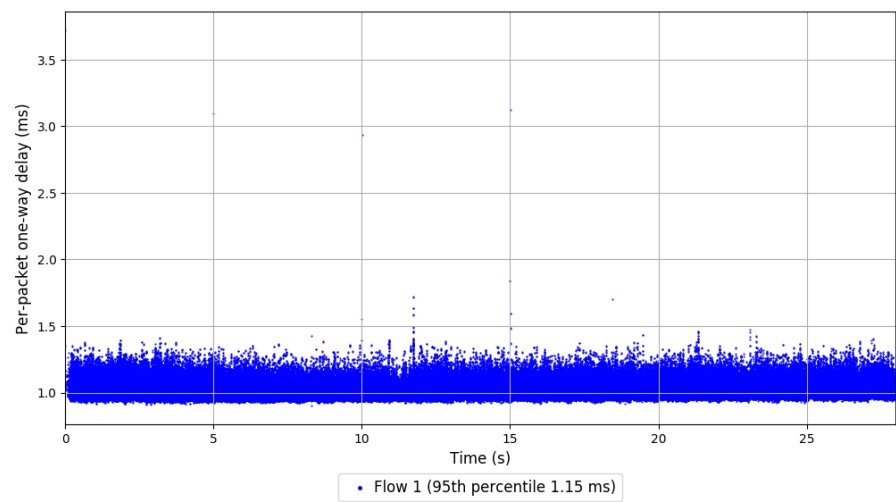
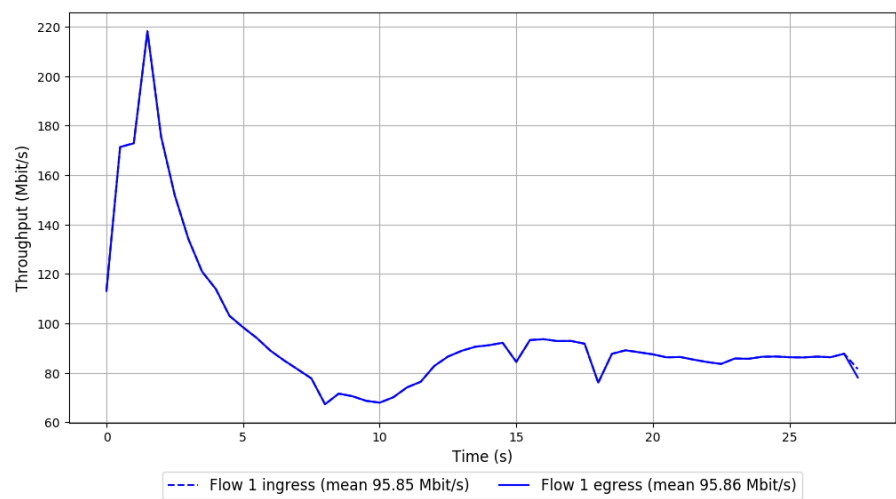
-- Flow 1:

Average throughput: 95.86 Mbit/s

95th percentile per-packet one-way delay: 1.151 ms

Loss rate: 0.07%

Run 5: Report of Copa — Data Link

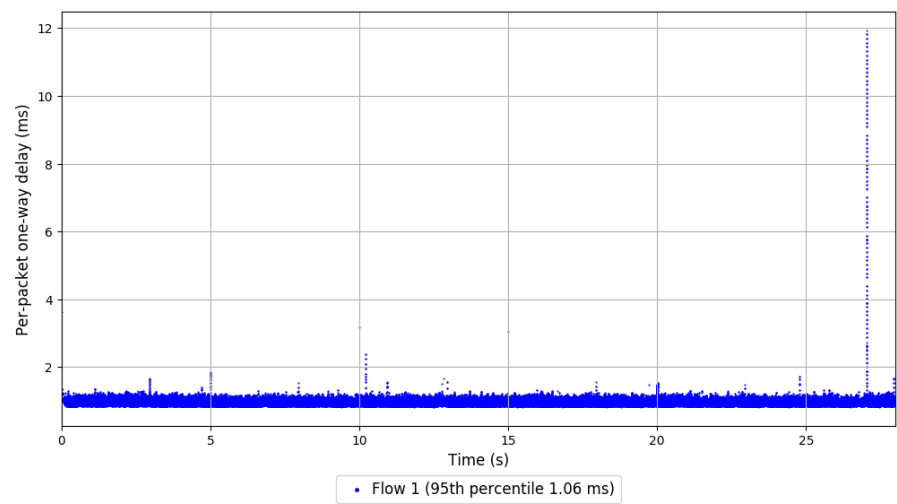
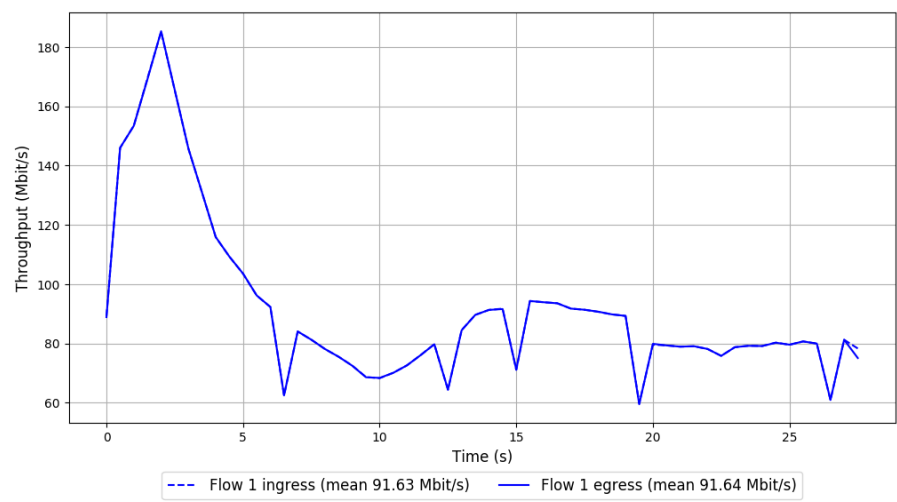


Run 6: Statistics of Copa

Start at: 2017-11-30 10:34:32
End at: 2017-11-30 10:35:02
Local clock offset: -0.357 ms
Remote clock offset: -1.652 ms

Below is generated by plot.py at 2017-11-30 16:14:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.64 Mbit/s
95th percentile per-packet one-way delay: 1.061 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 91.64 Mbit/s
95th percentile per-packet one-way delay: 1.061 ms
Loss rate: 0.07%

Run 6: Report of Copa — Data Link

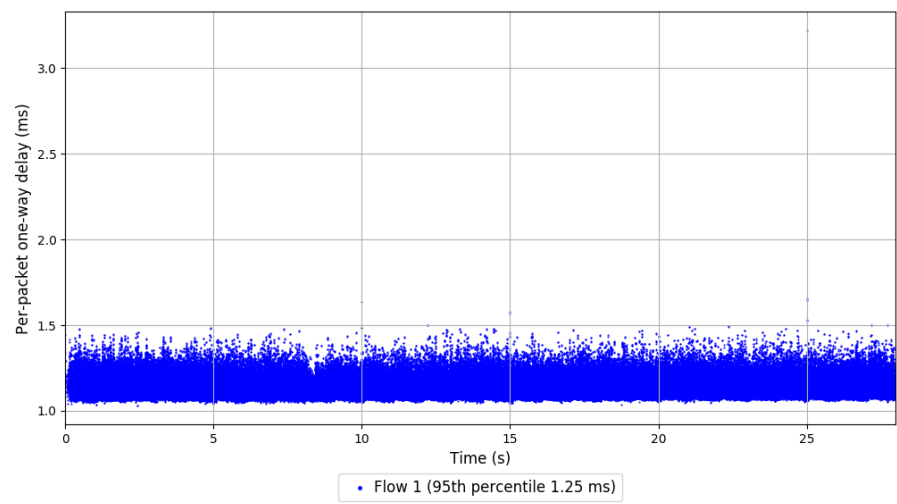
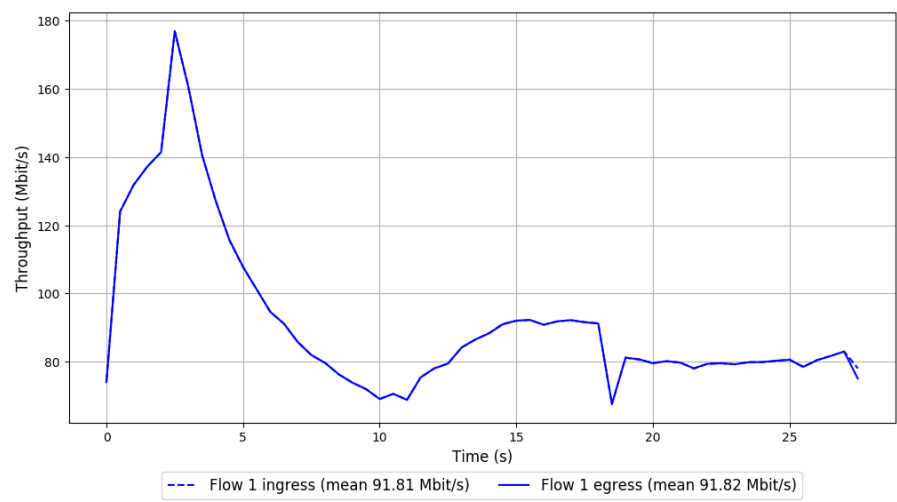


Run 7: Statistics of Copa

Start at: 2017-11-30 10:53:23
End at: 2017-11-30 10:53:53
Local clock offset: -0.238 ms
Remote clock offset: -1.651 ms

Below is generated by plot.py at 2017-11-30 16:14:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.82 Mbit/s
95th percentile per-packet one-way delay: 1.248 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 91.82 Mbit/s
95th percentile per-packet one-way delay: 1.248 ms
Loss rate: 0.06%

Run 7: Report of Copa — Data Link

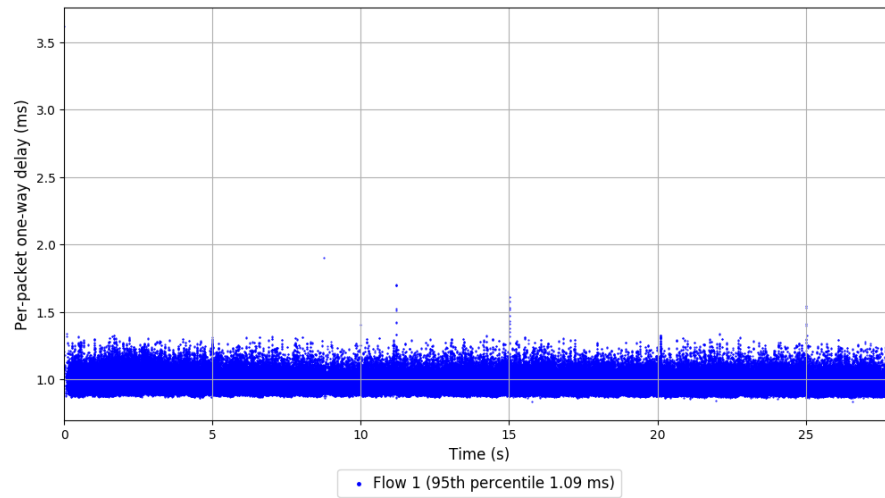


Run 8: Statistics of Copa

Start at: 2017-11-30 11:12:24
End at: 2017-11-30 11:12:54
Local clock offset: -0.211 ms
Remote clock offset: -1.577 ms

Below is generated by plot.py at 2017-11-30 16:14:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.29 Mbit/s
95th percentile per-packet one-way delay: 1.094 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 93.29 Mbit/s
95th percentile per-packet one-way delay: 1.094 ms
Loss rate: 0.07%

Run 8: Report of Copa — Data Link

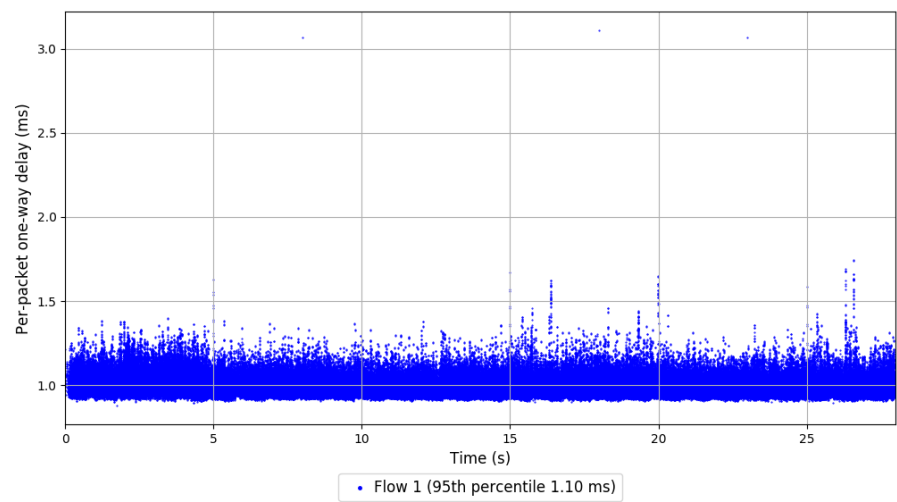
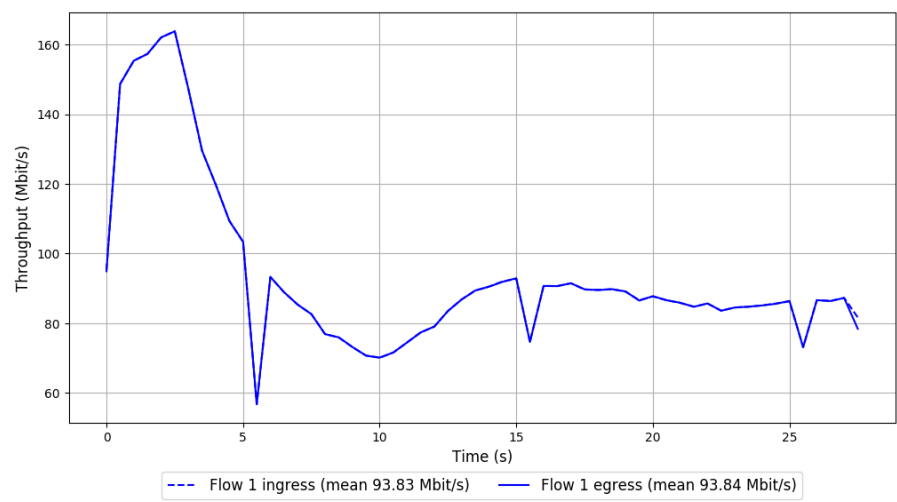


Run 9: Statistics of Copa

Start at: 2017-11-30 11:31:38
End at: 2017-11-30 11:32:08
Local clock offset: -0.22 ms
Remote clock offset: -1.329 ms

Below is generated by plot.py at 2017-11-30 16:14:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.84 Mbit/s
95th percentile per-packet one-way delay: 1.098 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 93.84 Mbit/s
95th percentile per-packet one-way delay: 1.098 ms
Loss rate: 0.07%

Run 9: Report of Copa — Data Link

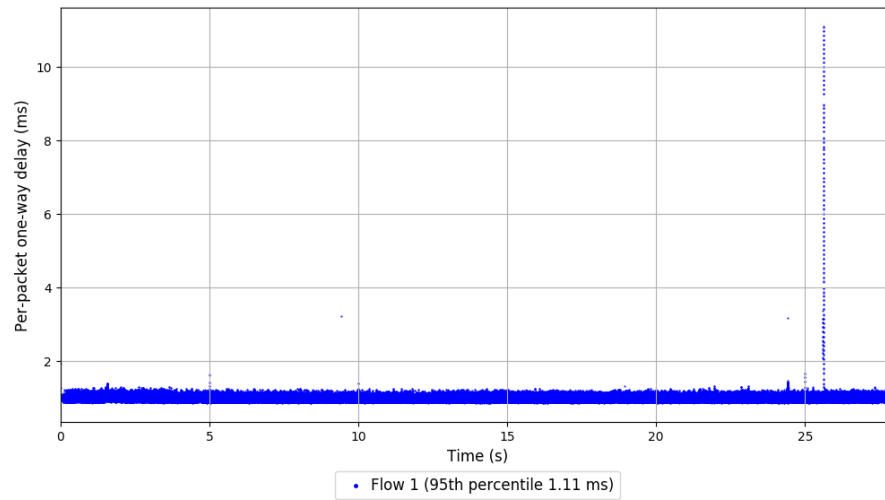
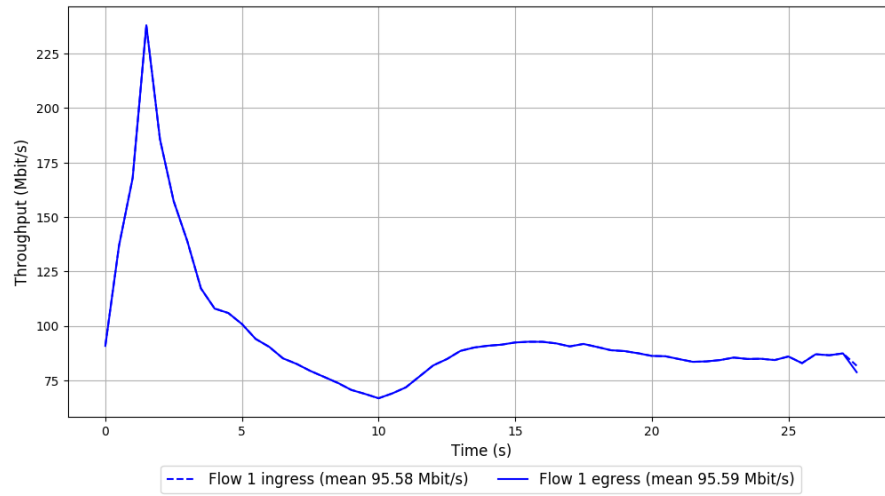


Run 10: Statistics of Copa

Start at: 2017-11-30 11:50:38
End at: 2017-11-30 11:51:09
Local clock offset: -0.048 ms
Remote clock offset: -1.175 ms

Below is generated by plot.py at 2017-11-30 16:14:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.59 Mbit/s
95th percentile per-packet one-way delay: 1.106 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 95.59 Mbit/s
95th percentile per-packet one-way delay: 1.106 ms
Loss rate: 0.06%

Run 10: Report of Copa — Data Link



Run 1: Statistics of Indigo

Start at: 2017-11-30 08:50:19

End at: 2017-11-30 08:50:49

Local clock offset: 0.066 ms

Remote clock offset: -3.451 ms

Below is generated by plot.py at 2017-11-30 16:15:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.46 Mbit/s

95th percentile per-packet one-way delay: 1.177 ms

Loss rate: 0.06%

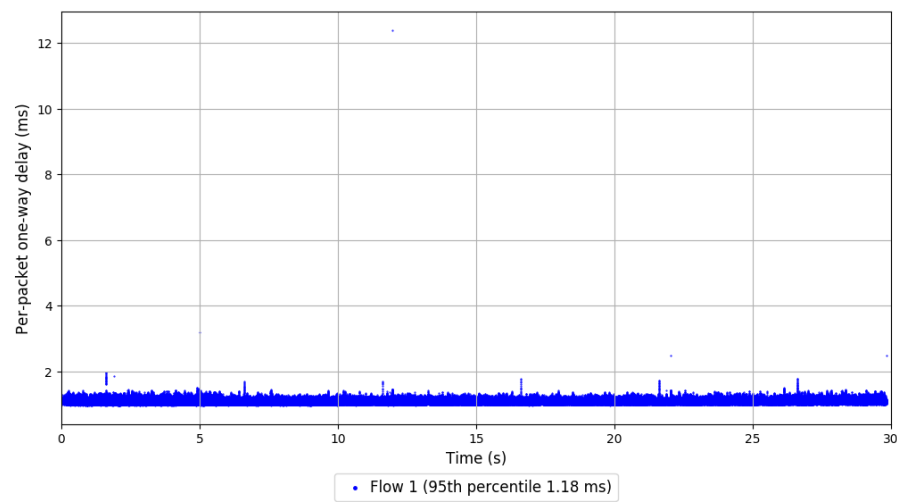
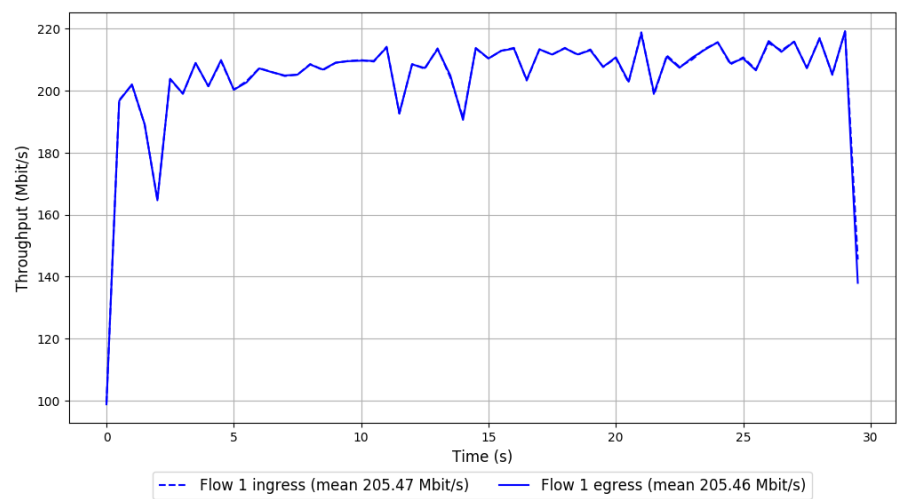
-- Flow 1:

Average throughput: 205.46 Mbit/s

95th percentile per-packet one-way delay: 1.177 ms

Loss rate: 0.06%

Run 1: Report of Indigo — Data Link

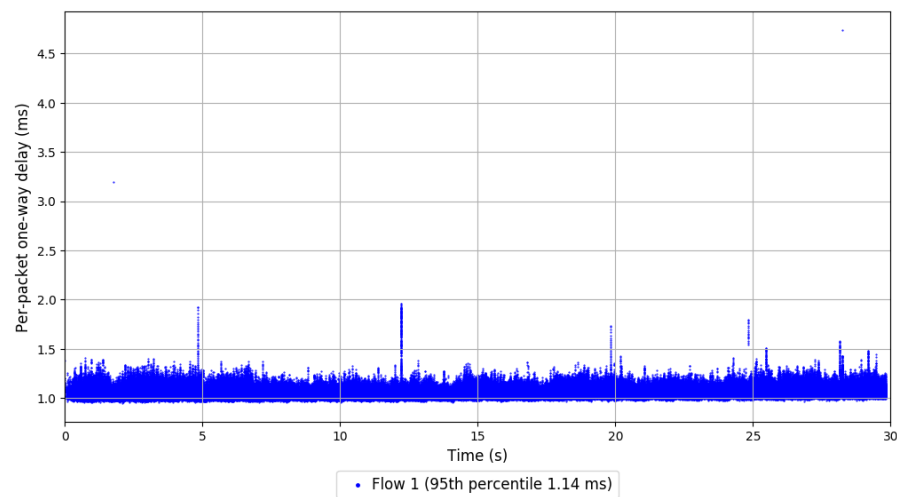
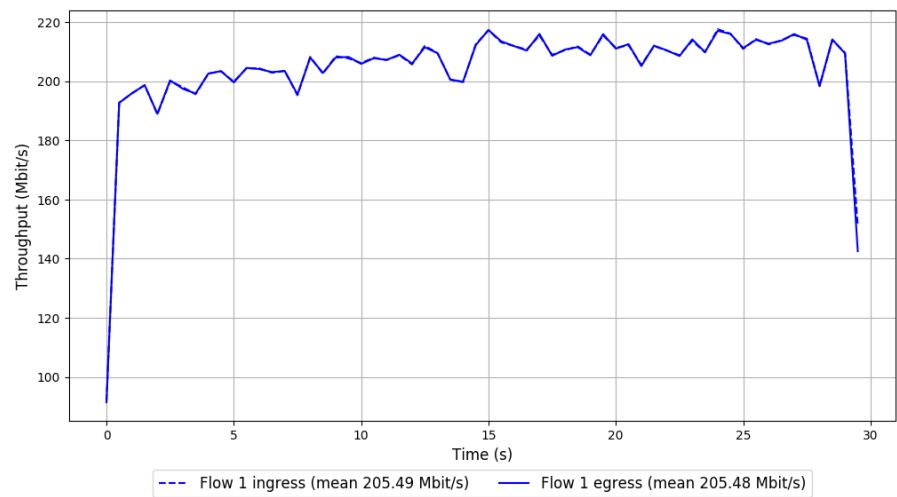


Run 2: Statistics of Indigo

Start at: 2017-11-30 09:09:18
End at: 2017-11-30 09:09:48
Local clock offset: -0.079 ms
Remote clock offset: -2.801 ms

Below is generated by plot.py at 2017-11-30 16:16:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 205.48 Mbit/s
95th percentile per-packet one-way delay: 1.139 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 205.48 Mbit/s
95th percentile per-packet one-way delay: 1.139 ms
Loss rate: 0.07%

Run 2: Report of Indigo — Data Link

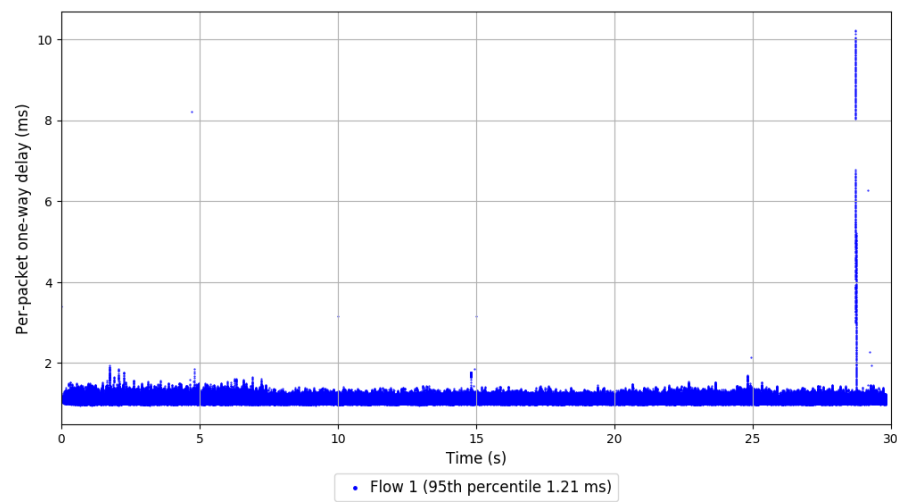
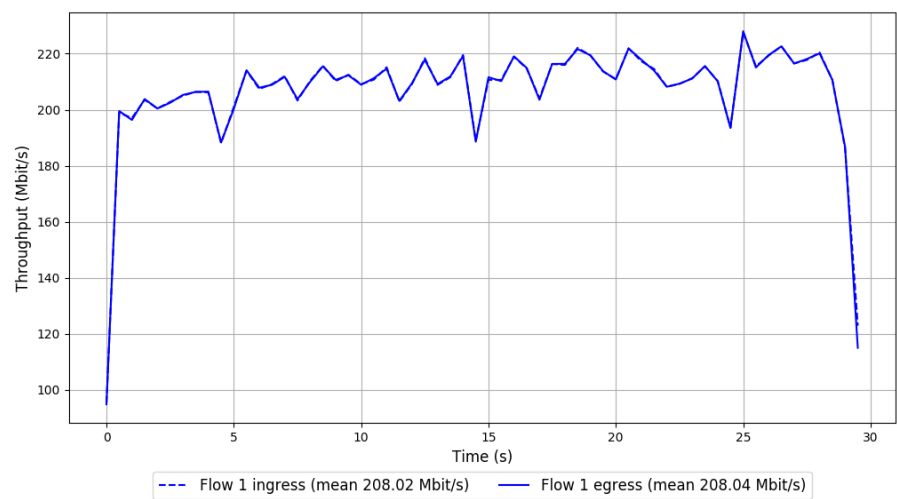


Run 3: Statistics of Indigo

Start at: 2017-11-30 09:28:11
End at: 2017-11-30 09:28:41
Local clock offset: -0.212 ms
Remote clock offset: -2.825 ms

Below is generated by plot.py at 2017-11-30 16:17:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 208.04 Mbit/s
95th percentile per-packet one-way delay: 1.212 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 208.04 Mbit/s
95th percentile per-packet one-way delay: 1.212 ms
Loss rate: 0.07%

Run 3: Report of Indigo — Data Link

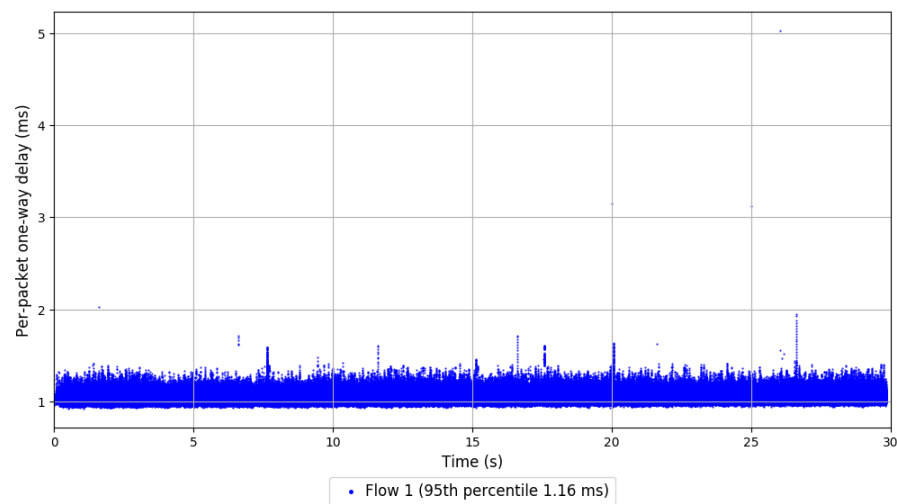
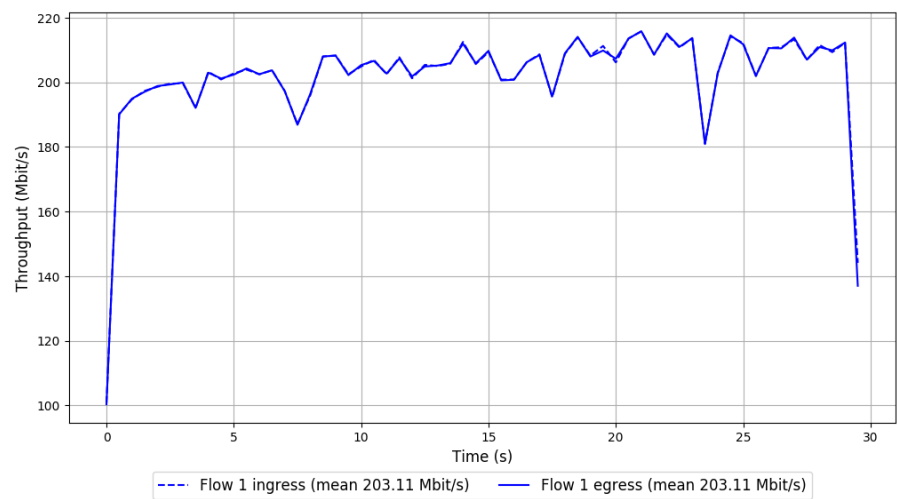


Run 4: Statistics of Indigo

Start at: 2017-11-30 09:47:08
End at: 2017-11-30 09:47:38
Local clock offset: -0.272 ms
Remote clock offset: -2.803 ms

Below is generated by plot.py at 2017-11-30 16:17:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 203.11 Mbit/s
95th percentile per-packet one-way delay: 1.162 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 203.11 Mbit/s
95th percentile per-packet one-way delay: 1.162 ms
Loss rate: 0.06%

Run 4: Report of Indigo — Data Link

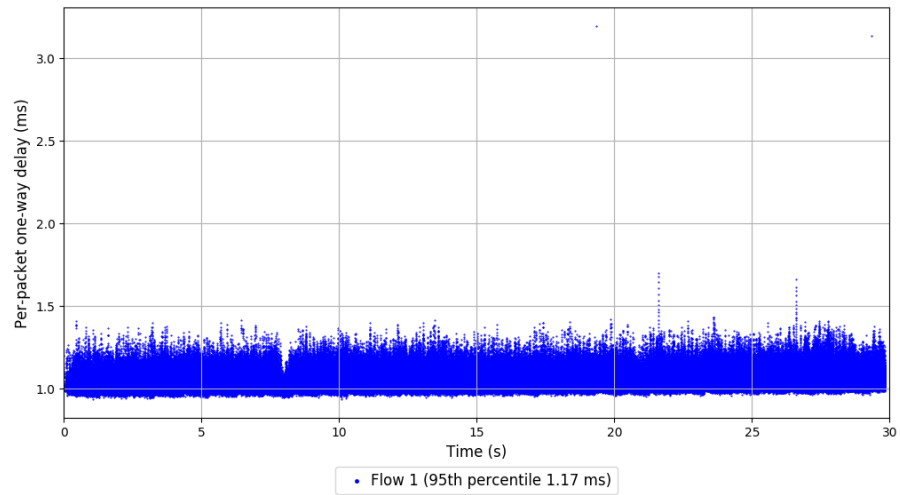
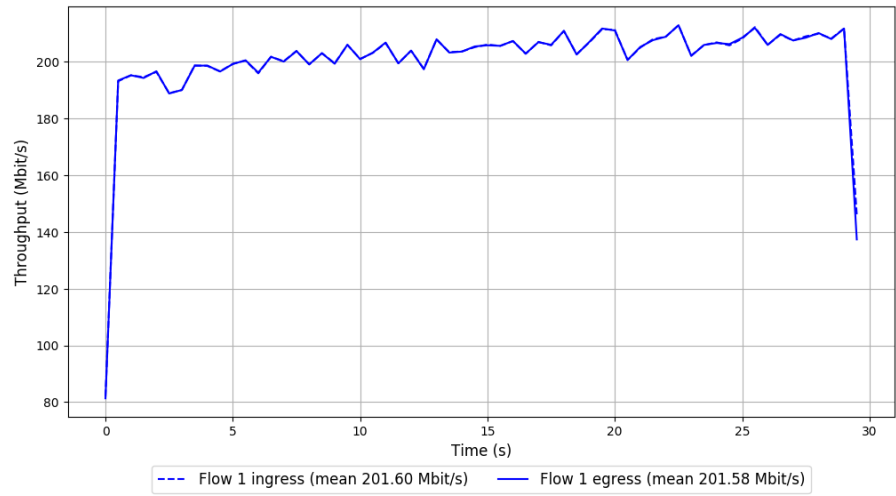


Run 5: Statistics of Indigo

Start at: 2017-11-30 10:05:56
End at: 2017-11-30 10:06:26
Local clock offset: -0.325 ms
Remote clock offset: -2.163 ms

Below is generated by plot.py at 2017-11-30 16:17:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 201.58 Mbit/s
95th percentile per-packet one-way delay: 1.167 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 201.58 Mbit/s
95th percentile per-packet one-way delay: 1.167 ms
Loss rate: 0.08%

Run 5: Report of Indigo — Data Link

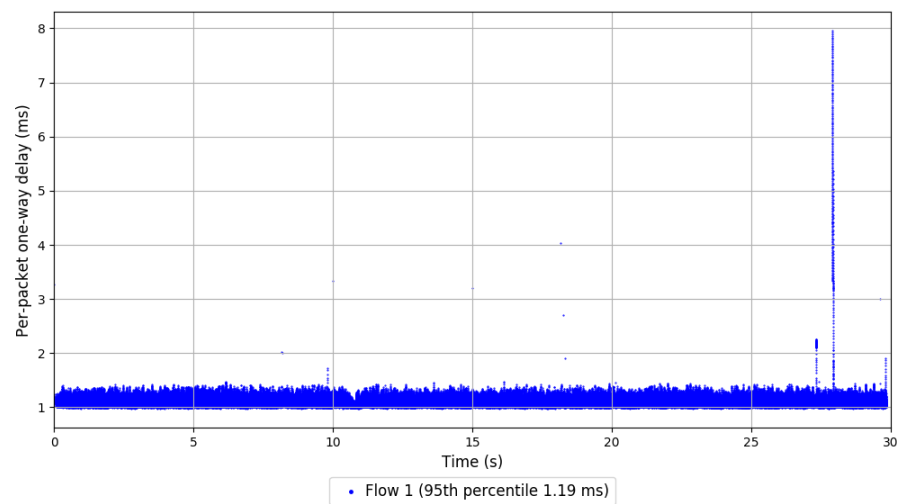
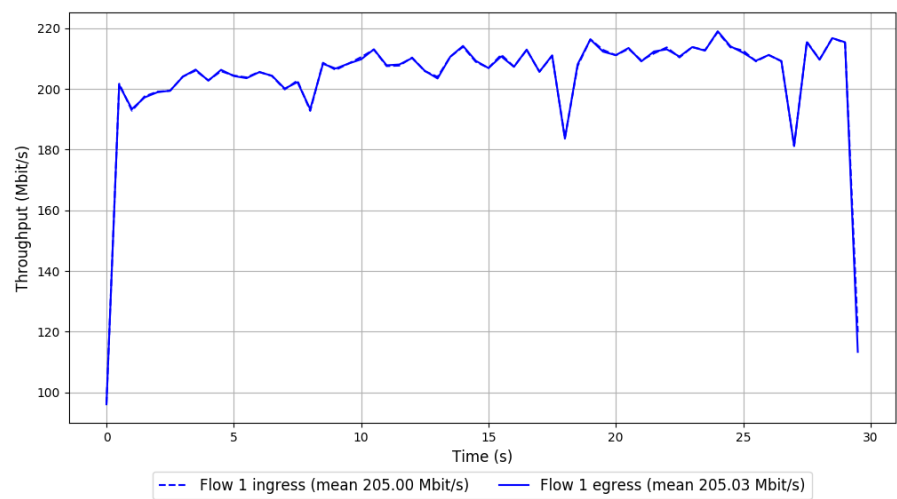


Run 6: Statistics of Indigo

Start at: 2017-11-30 10:24:52
End at: 2017-11-30 10:25:22
Local clock offset: -0.261 ms
Remote clock offset: -1.632 ms

Below is generated by plot.py at 2017-11-30 16:17:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 205.03 Mbit/s
95th percentile per-packet one-way delay: 1.194 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 205.03 Mbit/s
95th percentile per-packet one-way delay: 1.194 ms
Loss rate: 0.06%

Run 6: Report of Indigo — Data Link

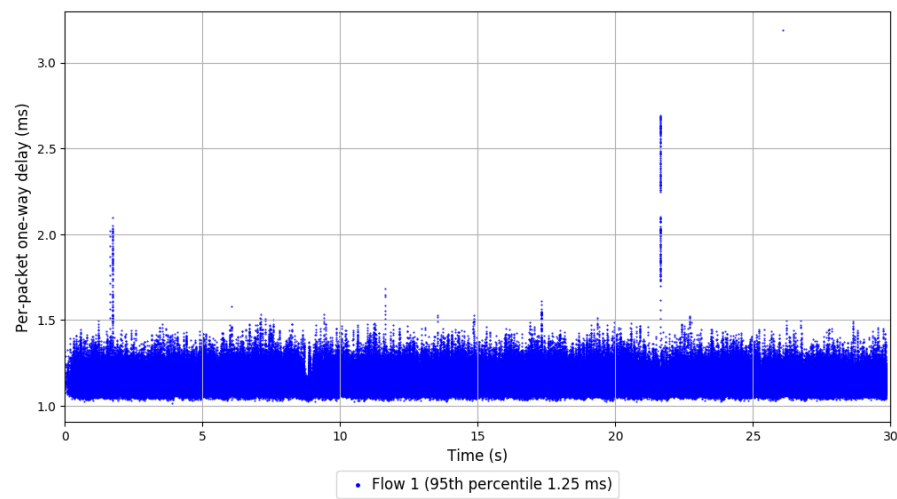
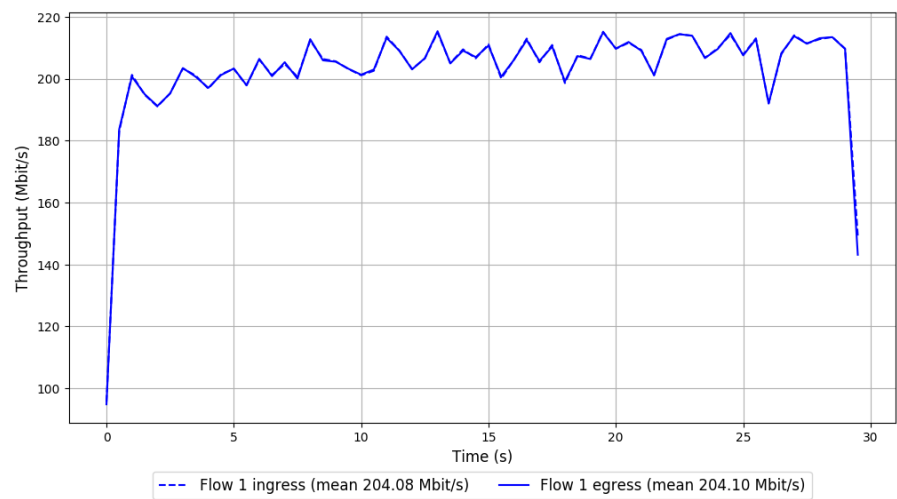


Run 7: Statistics of Indigo

Start at: 2017-11-30 10:43:55
End at: 2017-11-30 10:44:25
Local clock offset: -0.257 ms
Remote clock offset: -1.747 ms

Below is generated by plot.py at 2017-11-30 16:17:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 204.10 Mbit/s
95th percentile per-packet one-way delay: 1.254 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 204.10 Mbit/s
95th percentile per-packet one-way delay: 1.254 ms
Loss rate: 0.06%

Run 7: Report of Indigo — Data Link

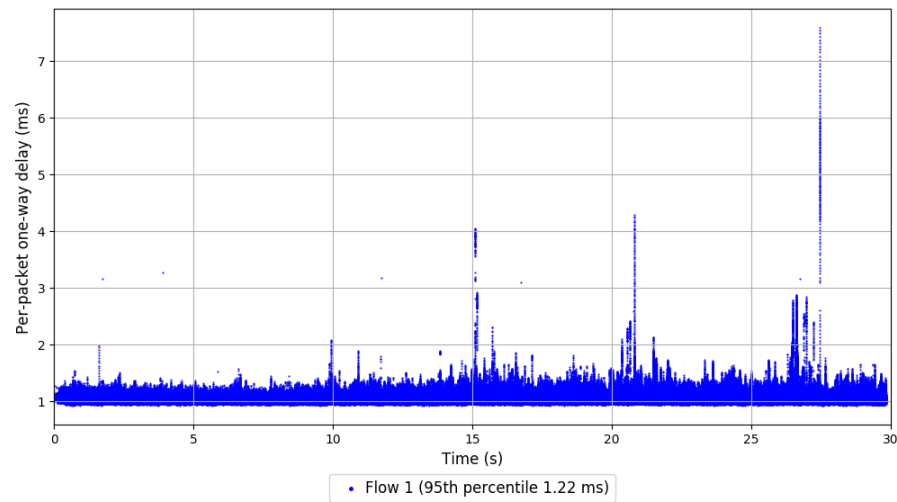
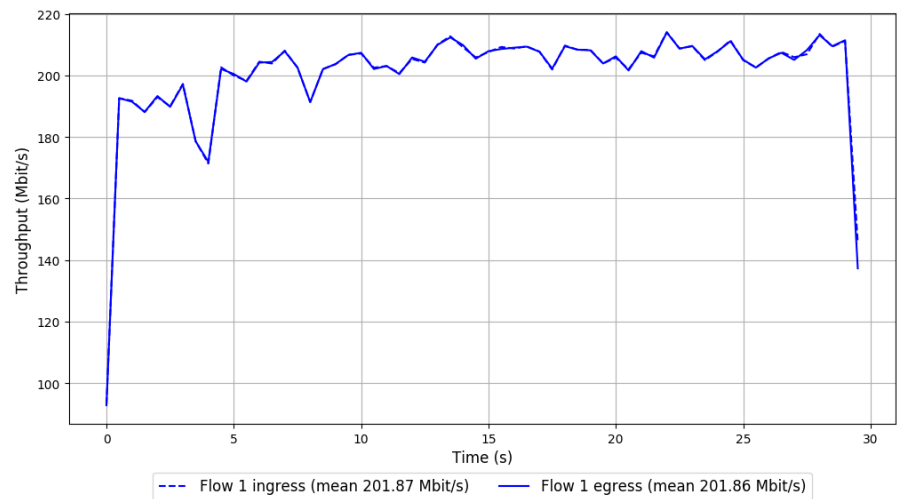


Run 8: Statistics of Indigo

Start at: 2017-11-30 11:03:02
End at: 2017-11-30 11:03:32
Local clock offset: -0.33 ms
Remote clock offset: -1.694 ms

Below is generated by plot.py at 2017-11-30 16:17:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 201.86 Mbit/s
95th percentile per-packet one-way delay: 1.218 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 201.86 Mbit/s
95th percentile per-packet one-way delay: 1.218 ms
Loss rate: 0.07%

Run 8: Report of Indigo — Data Link

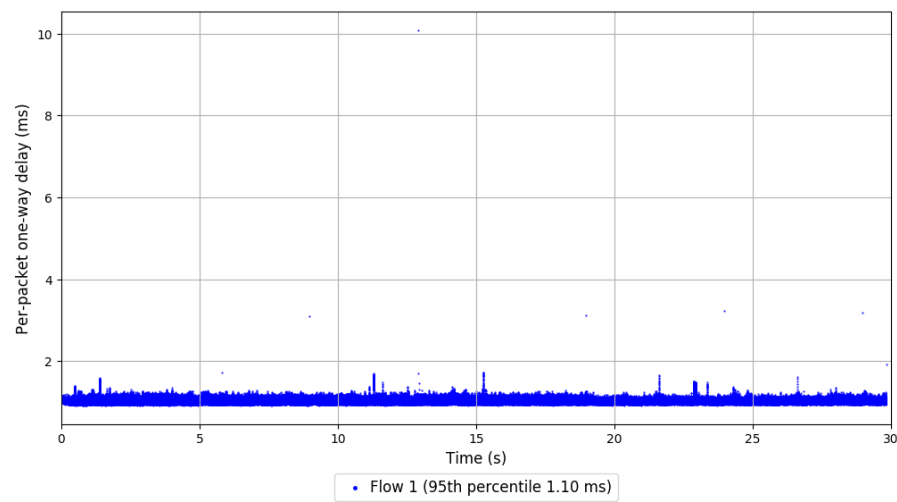
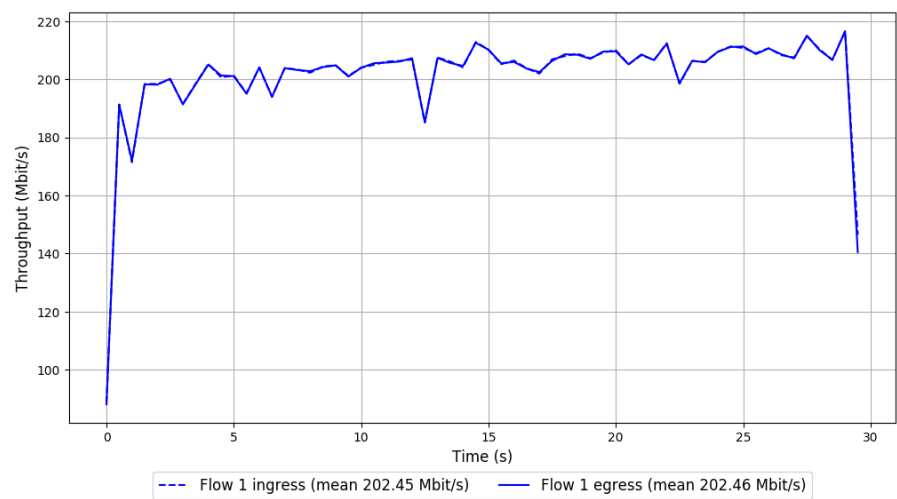


Run 9: Statistics of Indigo

Start at: 2017-11-30 11:22:03
End at: 2017-11-30 11:22:33
Local clock offset: -0.256 ms
Remote clock offset: -1.503 ms

Below is generated by plot.py at 2017-11-30 16:18:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 202.46 Mbit/s
95th percentile per-packet one-way delay: 1.101 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 202.46 Mbit/s
95th percentile per-packet one-way delay: 1.101 ms
Loss rate: 0.05%

Run 9: Report of Indigo — Data Link

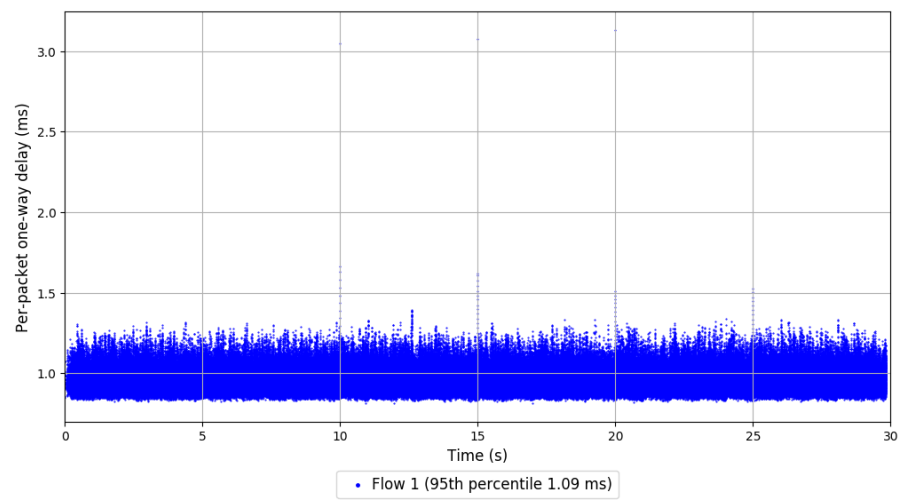
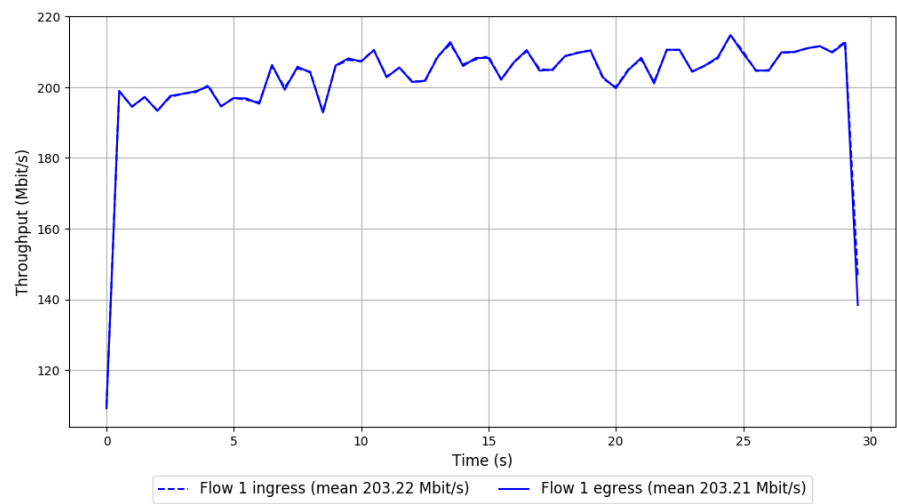


Run 10: Statistics of Indigo

Start at: 2017-11-30 11:41:12
End at: 2017-11-30 11:41:42
Local clock offset: -0.153 ms
Remote clock offset: -1.236 ms

Below is generated by plot.py at 2017-11-30 16:19:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 203.21 Mbit/s
95th percentile per-packet one-way delay: 1.087 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 203.21 Mbit/s
95th percentile per-packet one-way delay: 1.087 ms
Loss rate: 0.07%

Run 10: Report of Indigo — Data Link

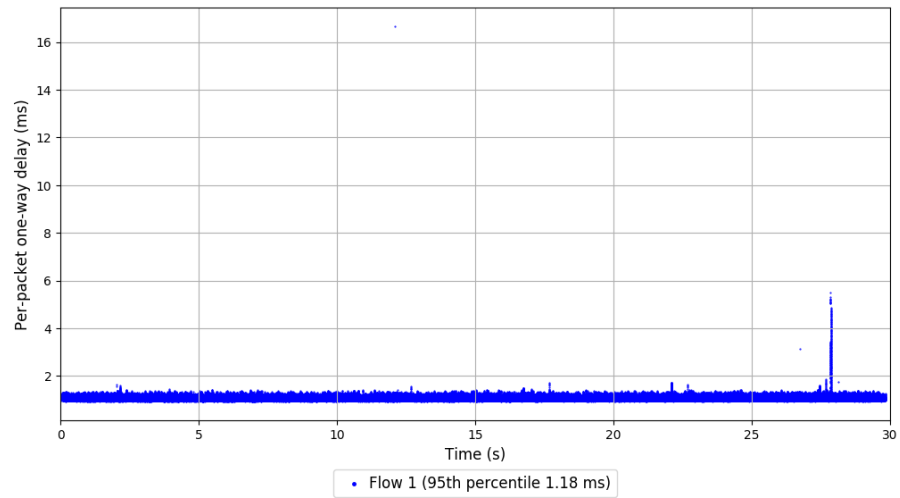
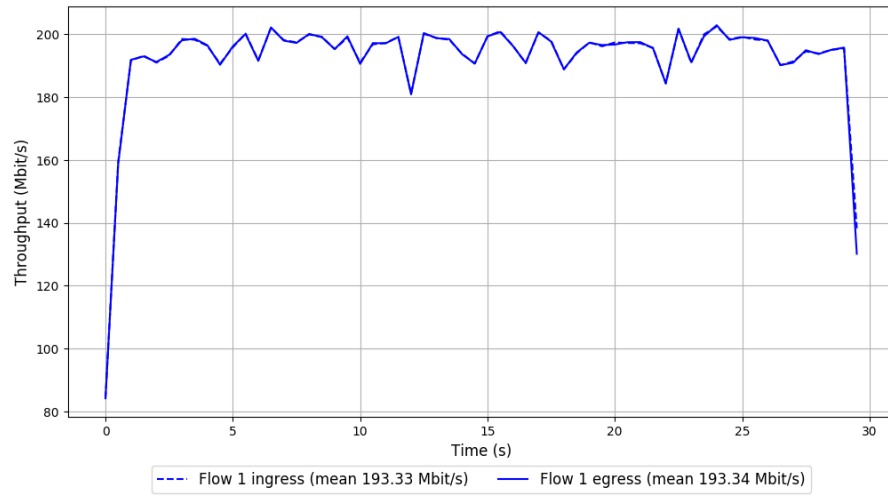


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-30 08:48:59
End at: 2017-11-30 08:49:29
Local clock offset: 0.045 ms
Remote clock offset: -3.479 ms

# Below is generated by plot.py at 2017-11-30 16:19:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 193.34 Mbit/s
95th percentile per-packet one-way delay: 1.179 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 193.34 Mbit/s
95th percentile per-packet one-way delay: 1.179 ms
Loss rate: 0.07%
```

Run 1: Report of Indigo-calib — Data Link

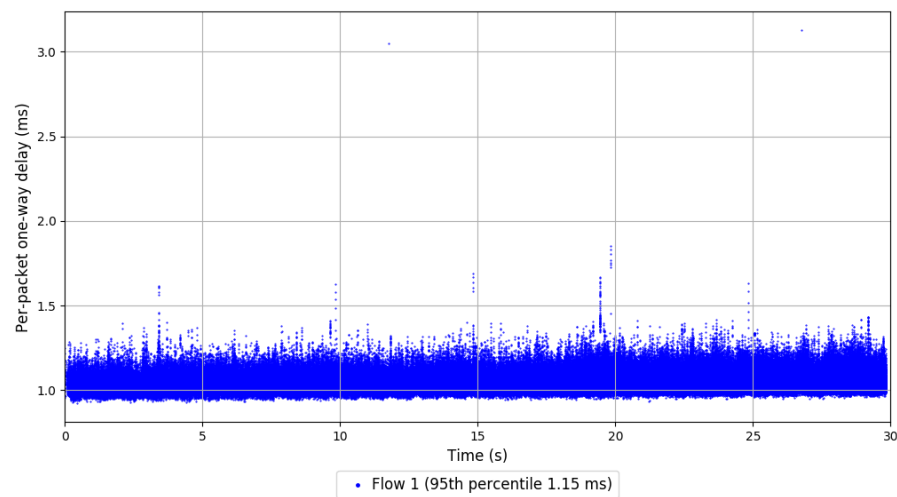
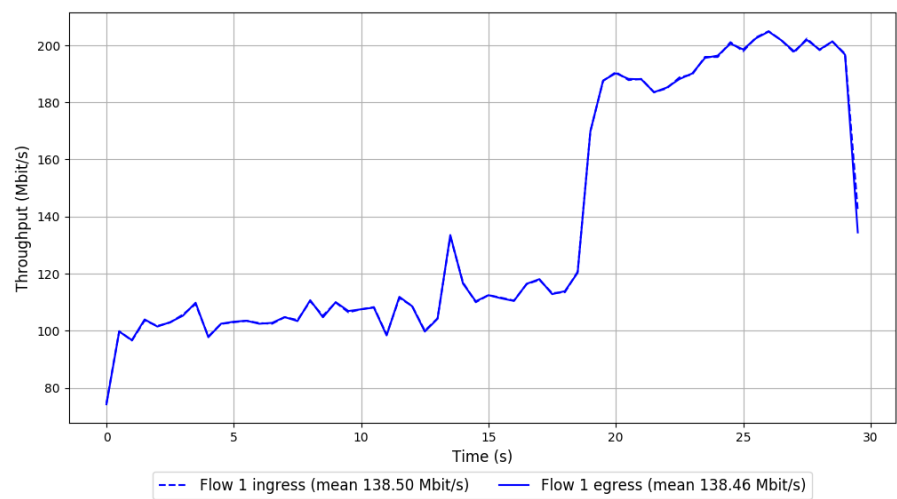


```
Run 2: Statistics of Indigo-calib

Start at: 2017-11-30 09:08:00
End at: 2017-11-30 09:08:31
Local clock offset: -0.069 ms
Remote clock offset: -2.824 ms

# Below is generated by plot.py at 2017-11-30 16:19:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 138.46 Mbit/s
95th percentile per-packet one-way delay: 1.154 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 138.46 Mbit/s
95th percentile per-packet one-way delay: 1.154 ms
Loss rate: 0.10%
```

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-11-30 09:26:50

End at: 2017-11-30 09:27:20

Local clock offset: -0.205 ms

Remote clock offset: -2.76 ms

Below is generated by plot.py at 2017-11-30 16:20:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.62 Mbit/s

95th percentile per-packet one-way delay: 1.091 ms

Loss rate: 0.07%

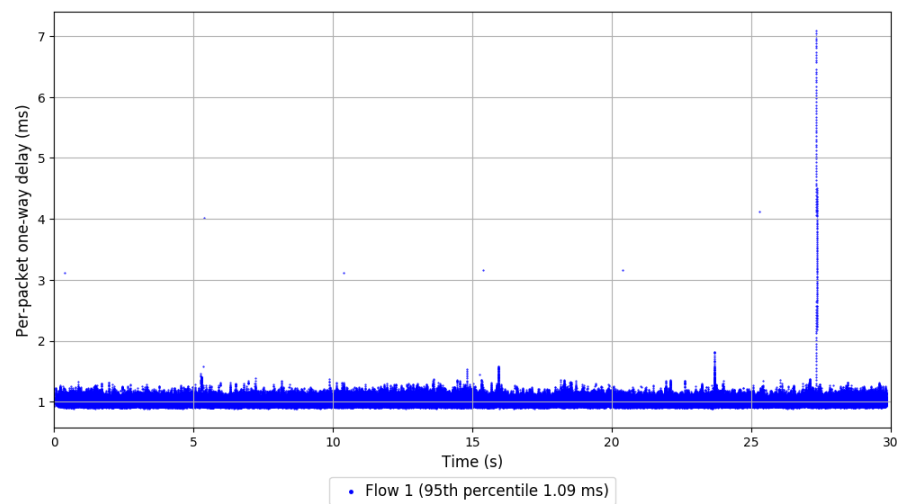
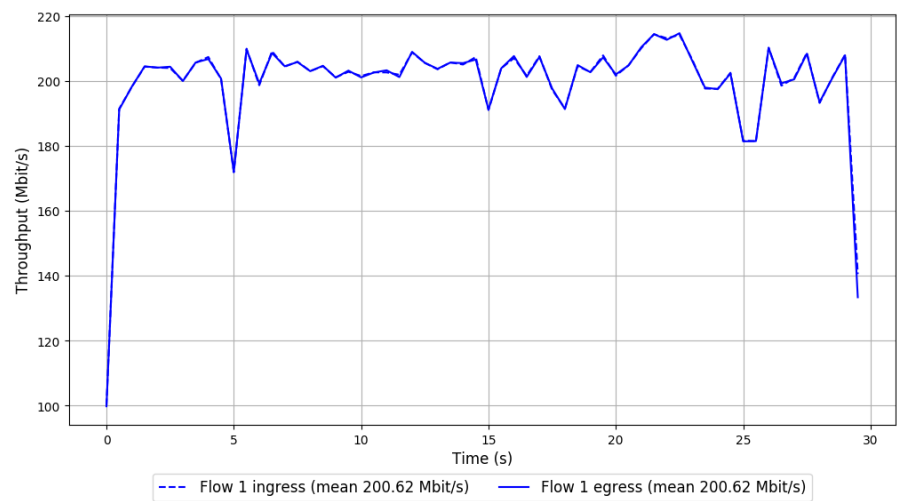
-- Flow 1:

Average throughput: 200.62 Mbit/s

95th percentile per-packet one-way delay: 1.091 ms

Loss rate: 0.07%

Run 3: Report of Indigo-calib — Data Link

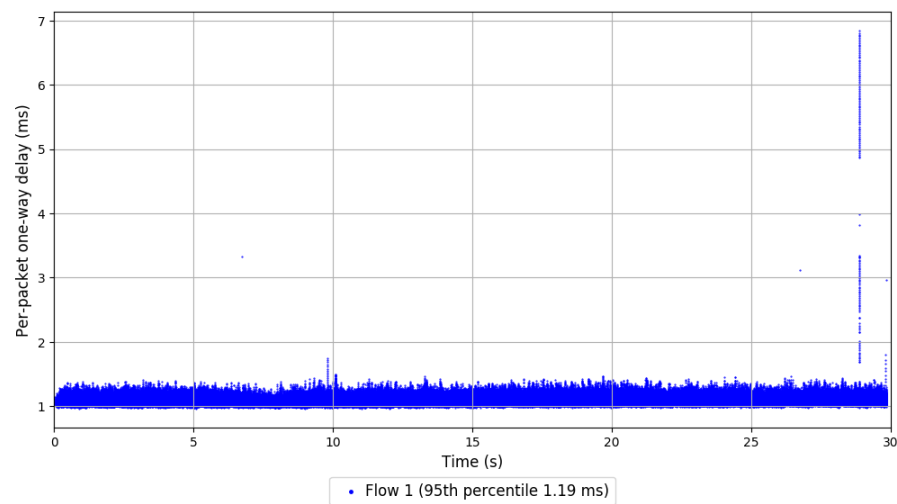
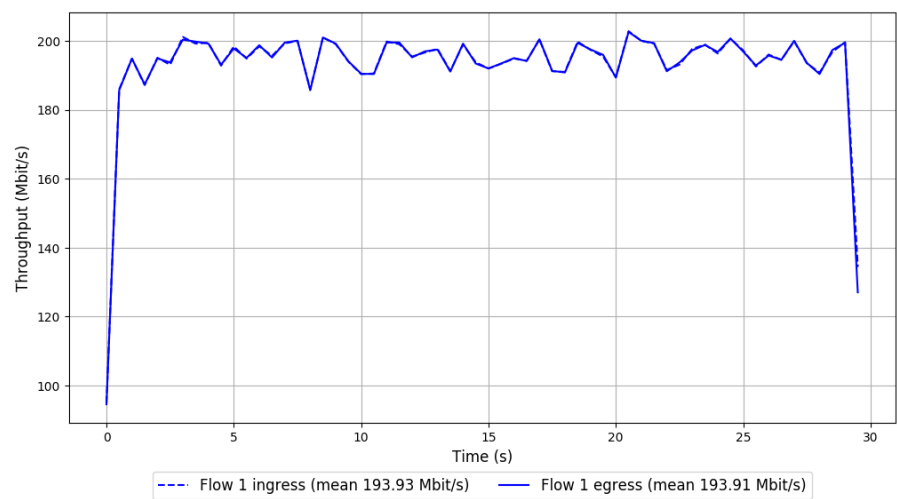


Run 4: Statistics of Indigo-calib

Start at: 2017-11-30 09:45:48
End at: 2017-11-30 09:46:18
Local clock offset: -0.195 ms
Remote clock offset: -2.791 ms

Below is generated by plot.py at 2017-11-30 16:20:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 193.91 Mbit/s
95th percentile per-packet one-way delay: 1.189 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 193.91 Mbit/s
95th percentile per-packet one-way delay: 1.189 ms
Loss rate: 0.07%

Run 4: Report of Indigo-calib — Data Link

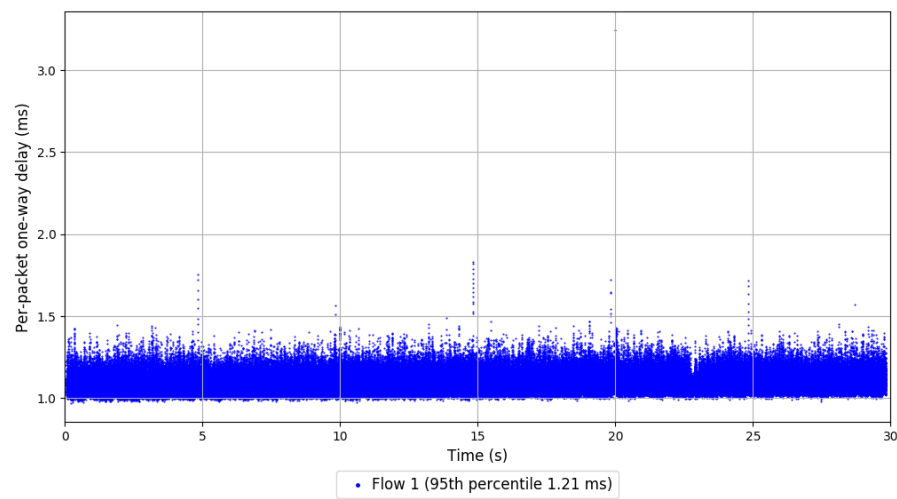
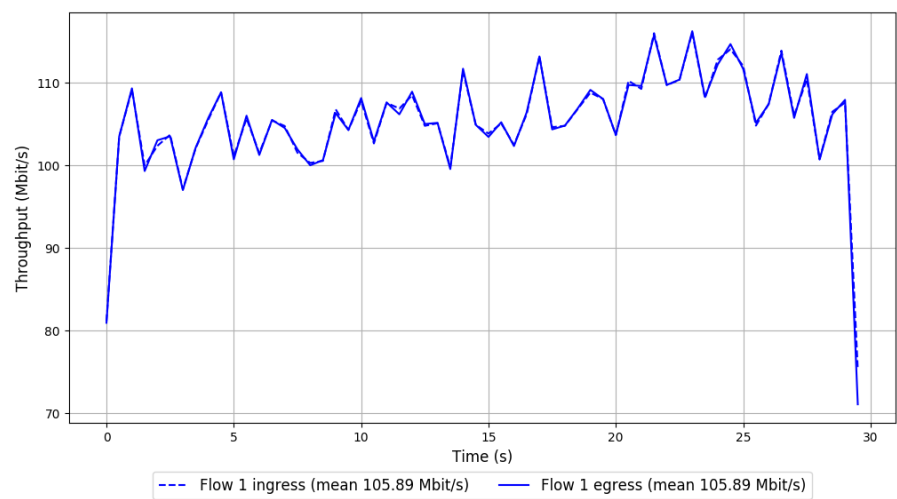


Run 5: Statistics of Indigo-calib

Start at: 2017-11-30 10:04:41
End at: 2017-11-30 10:05:11
Local clock offset: -0.209 ms
Remote clock offset: -2.136 ms

Below is generated by plot.py at 2017-11-30 16:20:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 105.89 Mbit/s
95th percentile per-packet one-way delay: 1.207 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 105.89 Mbit/s
95th percentile per-packet one-way delay: 1.207 ms
Loss rate: 0.07%

Run 5: Report of Indigo-calib — Data Link

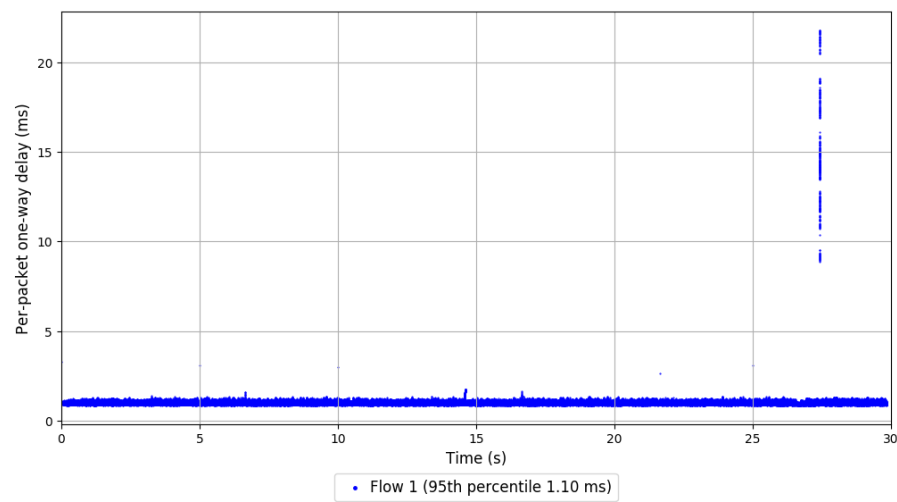
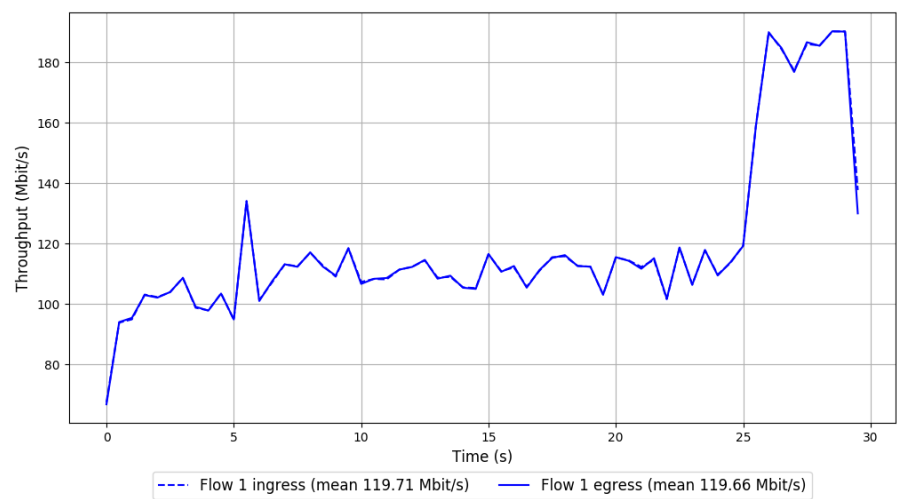


Run 6: Statistics of Indigo-calib

Start at: 2017-11-30 10:23:36
End at: 2017-11-30 10:24:06
Local clock offset: -0.363 ms
Remote clock offset: -1.613 ms

Below is generated by plot.py at 2017-11-30 16:20:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 119.66 Mbit/s
95th percentile per-packet one-way delay: 1.096 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 119.66 Mbit/s
95th percentile per-packet one-way delay: 1.096 ms
Loss rate: 0.11%

Run 6: Report of Indigo-calib — Data Link

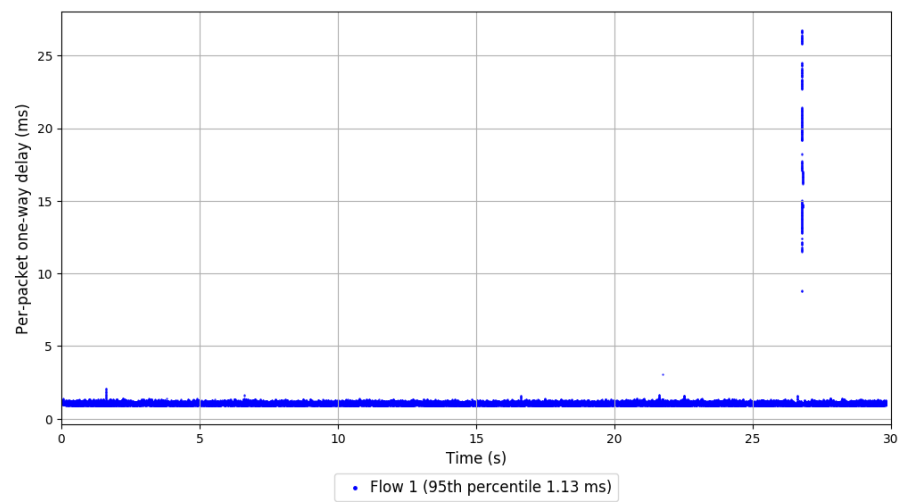
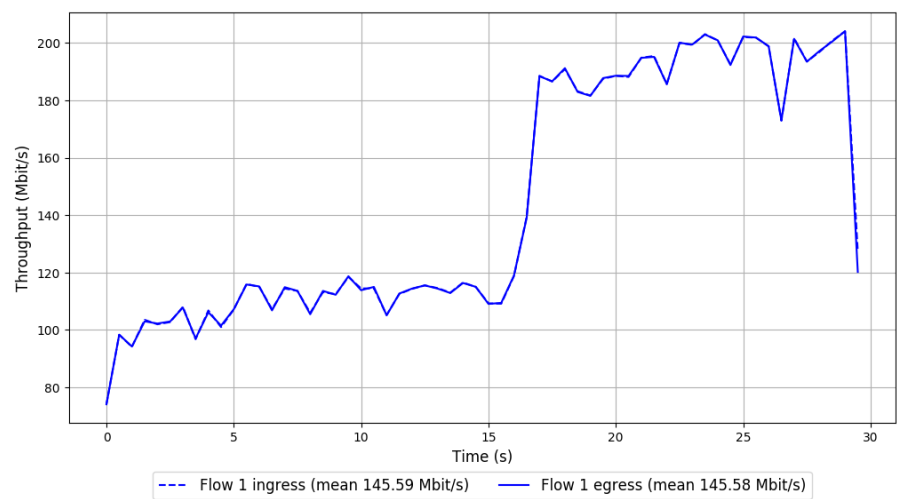


Run 7: Statistics of Indigo-calib

Start at: 2017-11-30 10:42:37
End at: 2017-11-30 10:43:07
Local clock offset: -0.35 ms
Remote clock offset: -1.743 ms

Below is generated by plot.py at 2017-11-30 16:20:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 145.58 Mbit/s
95th percentile per-packet one-way delay: 1.133 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 145.58 Mbit/s
95th percentile per-packet one-way delay: 1.133 ms
Loss rate: 0.09%

Run 7: Report of Indigo-calib — Data Link

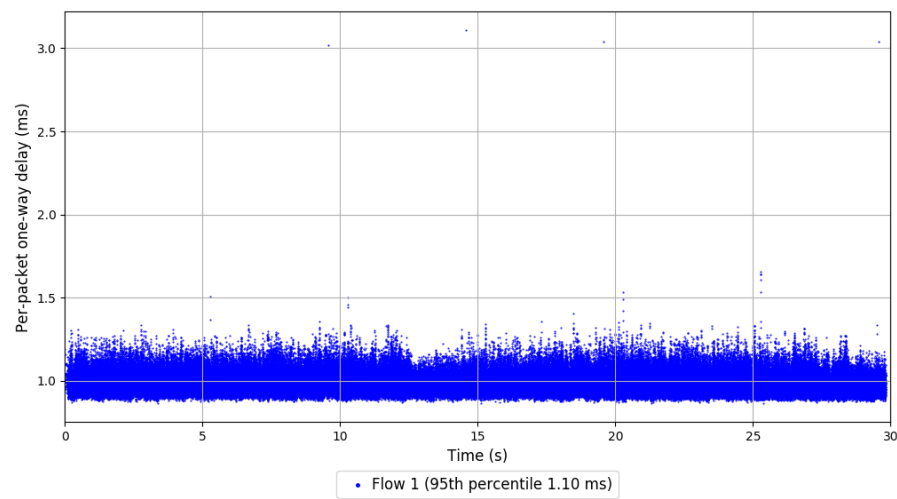
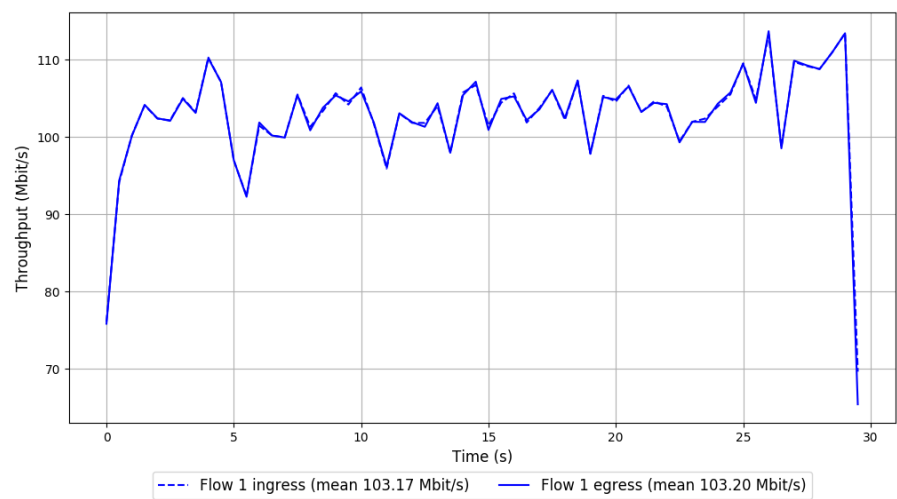


Run 8: Statistics of Indigo-calib

Start at: 2017-11-30 11:01:46
End at: 2017-11-30 11:02:16
Local clock offset: -0.335 ms
Remote clock offset: -1.636 ms

Below is generated by plot.py at 2017-11-30 16:20:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 103.20 Mbit/s
95th percentile per-packet one-way delay: 1.101 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 103.20 Mbit/s
95th percentile per-packet one-way delay: 1.101 ms
Loss rate: 0.07%

Run 8: Report of Indigo-calib — Data Link

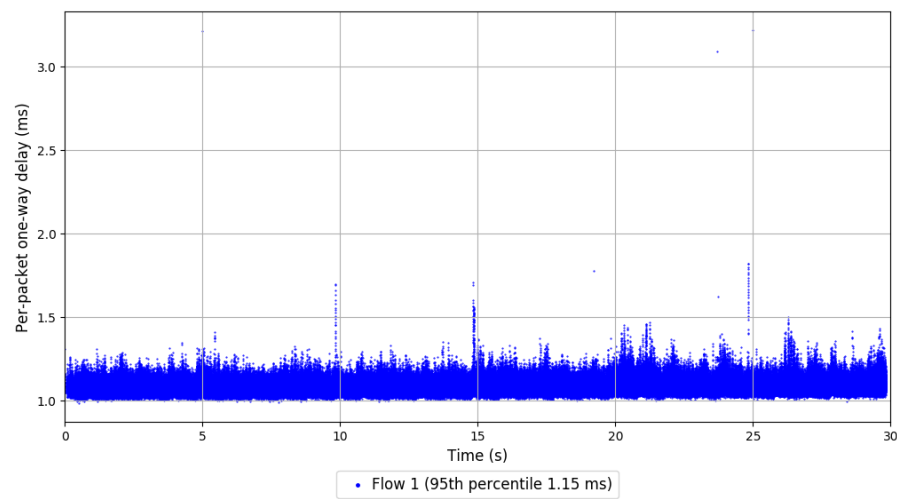
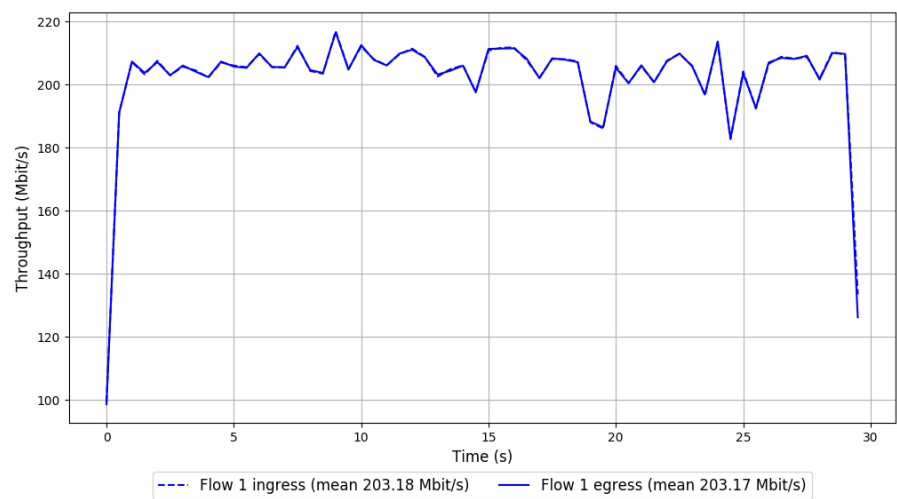


Run 9: Statistics of Indigo-calib

Start at: 2017-11-30 11:20:42
End at: 2017-11-30 11:21:12
Local clock offset: -0.191 ms
Remote clock offset: -1.576 ms

Below is generated by plot.py at 2017-11-30 16:20:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 203.17 Mbit/s
95th percentile per-packet one-way delay: 1.154 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 203.17 Mbit/s
95th percentile per-packet one-way delay: 1.154 ms
Loss rate: 0.06%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-30 11:39:56

End at: 2017-11-30 11:40:26

Local clock offset: -0.173 ms

Remote clock offset: -1.322 ms

Below is generated by plot.py at 2017-11-30 16:20:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 105.11 Mbit/s

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

Loss rate: 0.08%

-- Flow 1:

Average throughput: 105.11 Mbit/s

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

Loss rate: 0.08%

Run 10: Report of Indigo-calib — Data Link

