

Pantheon Report

Generated at 2017-12-05 18:49:00 (UTC).

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

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).

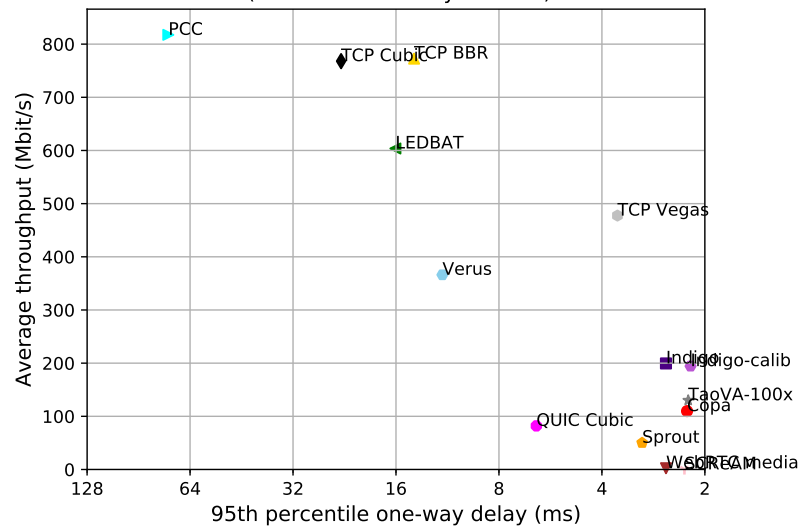
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

NTP offsets were measured against **gps.ntp.br** and have been applied to correct the timestamps in logs.

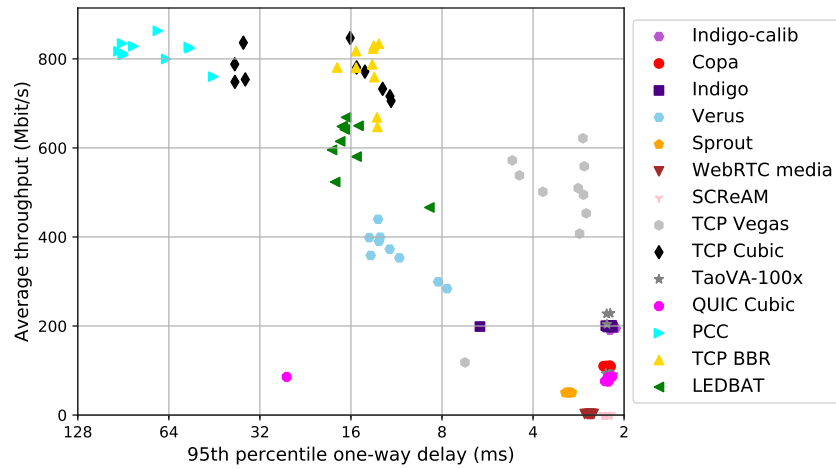
Git summary:

```
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-quick @ 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 AWS Brazil 1 Ethernet to Brazil Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	772.77	14.16	0.15
TCP Cubic	10	767.99	23.15	0.02
LEDBAT	10	603.71	16.07	0.02
PCC	10	817.48	74.08	0.93
QUIC Cubic	6	82.02	6.22	0.01
SCReAM	10	0.22	2.29	0.00
WebRTC media	10	2.31	2.60	0.00
Sprout	10	50.23	3.05	0.00
TaoVA-100x	10	130.14	2.24	0.00
TCP Vegas	10	477.51	3.60	0.00
Verus	9	366.16	11.71	0.46
Copa	10	109.82	2.26	0.00
Indigo	10	199.46	2.60	0.00
Indigo-calib	3	194.39	2.20	0.00

Run 1: Statistics of TCP BBR

Start at: 2017-12-05 13:02:00

End at: 2017-12-05 13:02:30

Local clock offset: -0.187 ms

Remote clock offset: 0.041 ms

Below is generated by plot.py at 2017-12-05 17:35:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 647.25 Mbit/s

95th percentile per-packet one-way delay: 13.080 ms

Loss rate: 0.00%

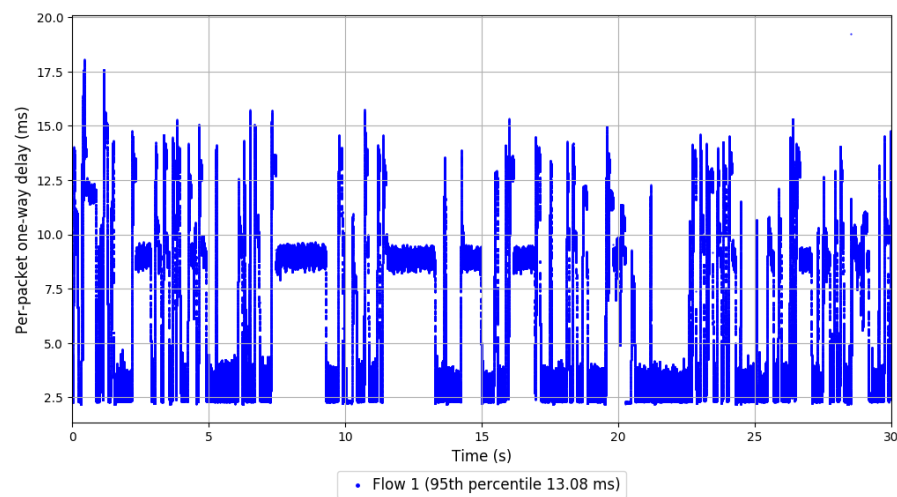
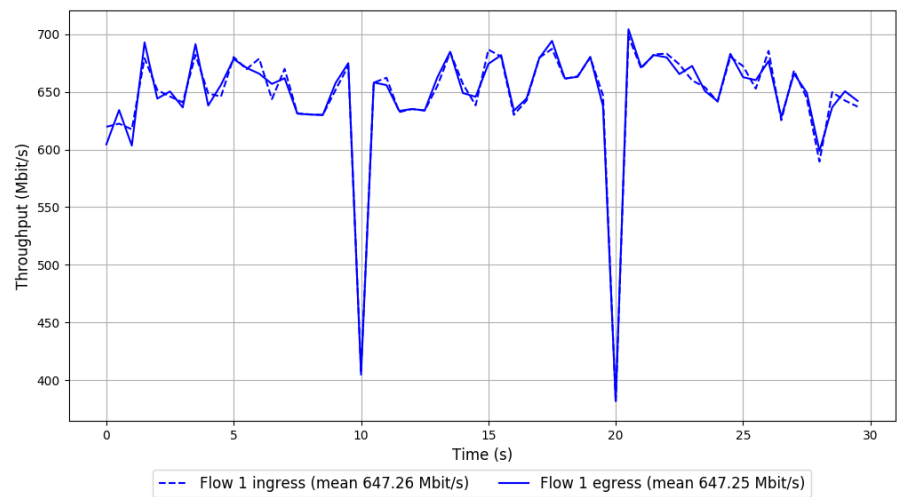
-- Flow 1:

Average throughput: 647.25 Mbit/s

95th percentile per-packet one-way delay: 13.080 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-12-05 13:20:06

End at: 2017-12-05 13:20:36

Local clock offset: -0.15 ms

Remote clock offset: -0.081 ms

Below is generated by plot.py at 2017-12-05 17:36:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 780.46 Mbit/s

95th percentile per-packet one-way delay: 15.383 ms

Loss rate: 0.08%

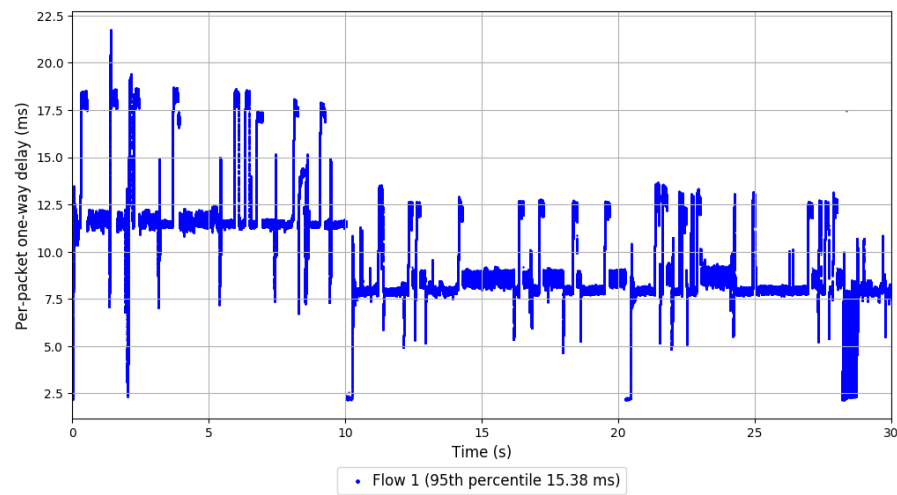
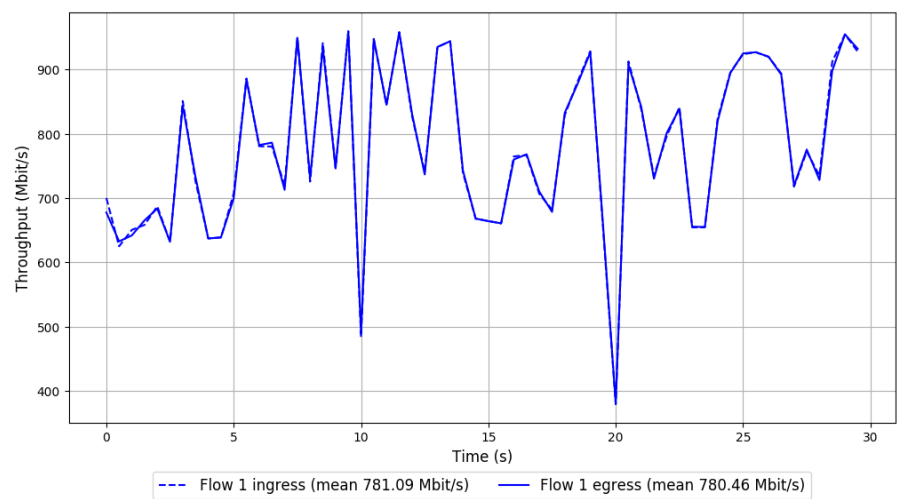
-- Flow 1:

Average throughput: 780.46 Mbit/s

95th percentile per-packet one-way delay: 15.383 ms

Loss rate: 0.08%

Run 2: Report of TCP BBR — Data Link

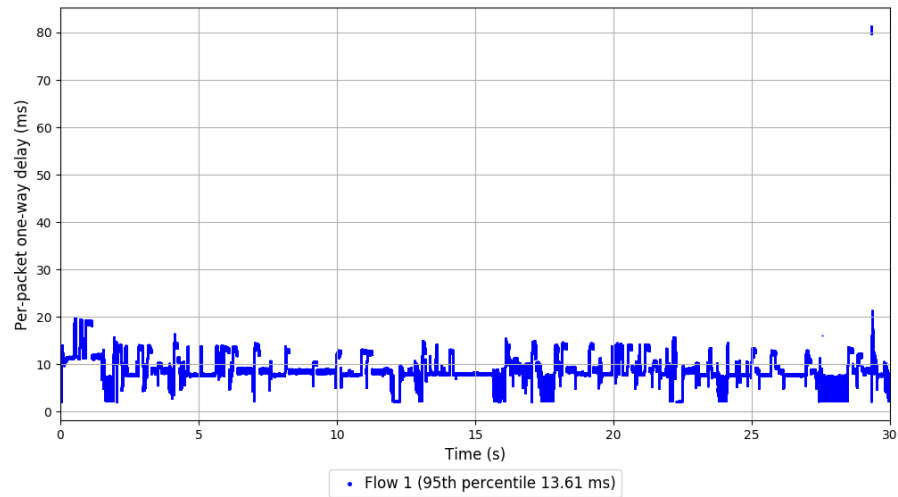
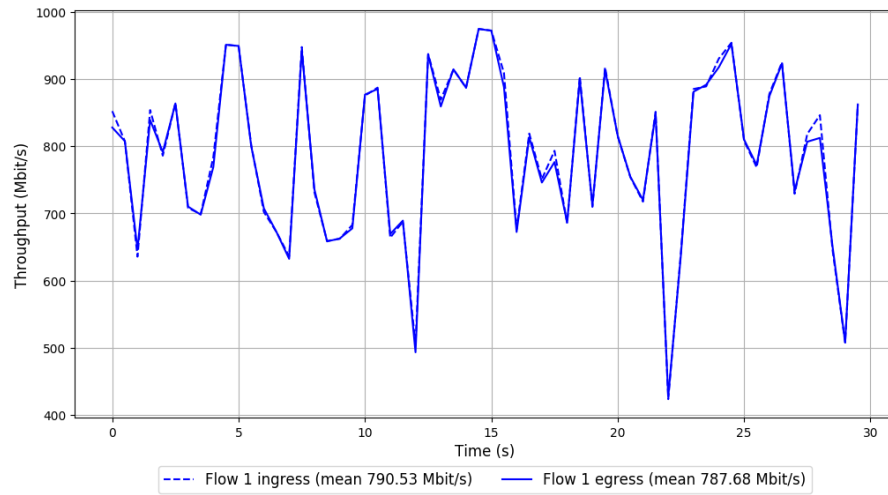


Run 3: Statistics of TCP BBR

Start at: 2017-12-05 13:38:13
End at: 2017-12-05 13:38:43
Local clock offset: -0.134 ms
Remote clock offset: -0.141 ms

Below is generated by plot.py at 2017-12-05 17:36:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 787.68 Mbit/s
95th percentile per-packet one-way delay: 13.605 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 787.68 Mbit/s
95th percentile per-packet one-way delay: 13.605 ms
Loss rate: 0.35%

Run 3: Report of TCP BBR — Data Link

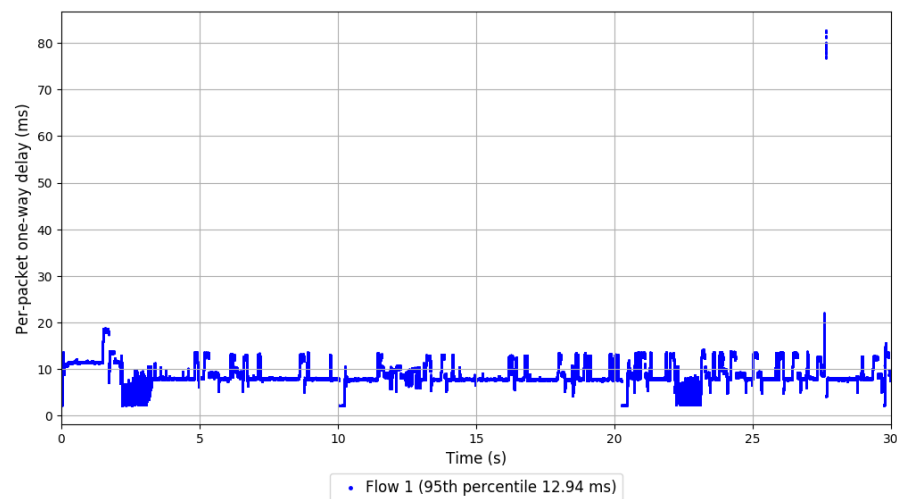
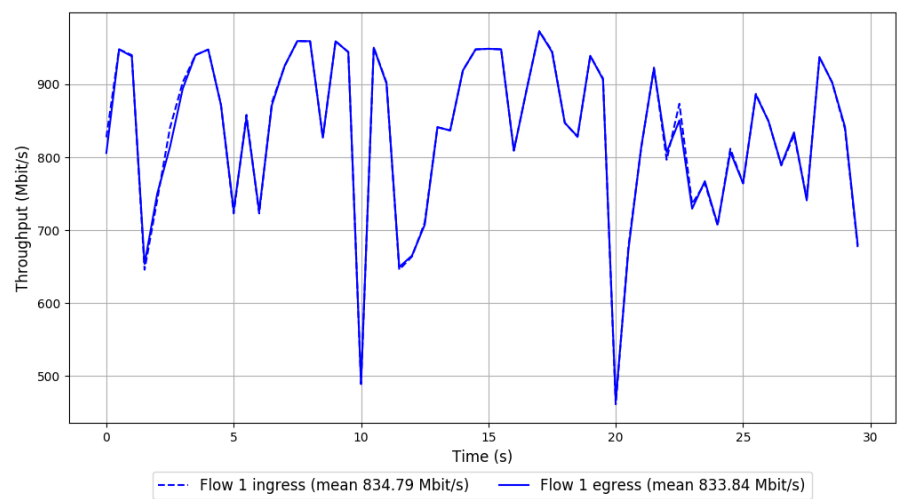


Run 4: Statistics of TCP BBR

Start at: 2017-12-05 13:56:14
End at: 2017-12-05 13:56:44
Local clock offset: -0.131 ms
Remote clock offset: -0.148 ms

Below is generated by plot.py at 2017-12-05 17:37:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 833.84 Mbit/s
95th percentile per-packet one-way delay: 12.935 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 833.84 Mbit/s
95th percentile per-packet one-way delay: 12.935 ms
Loss rate: 0.11%

Run 4: Report of TCP BBR — Data Link

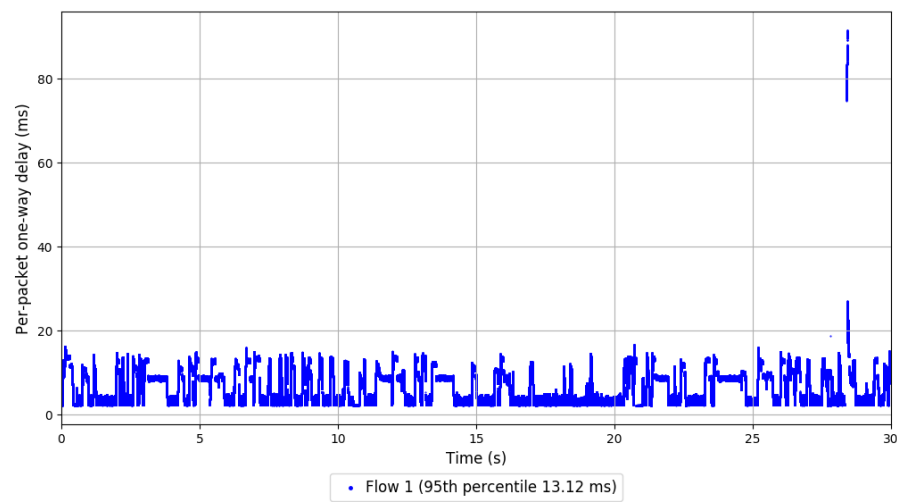
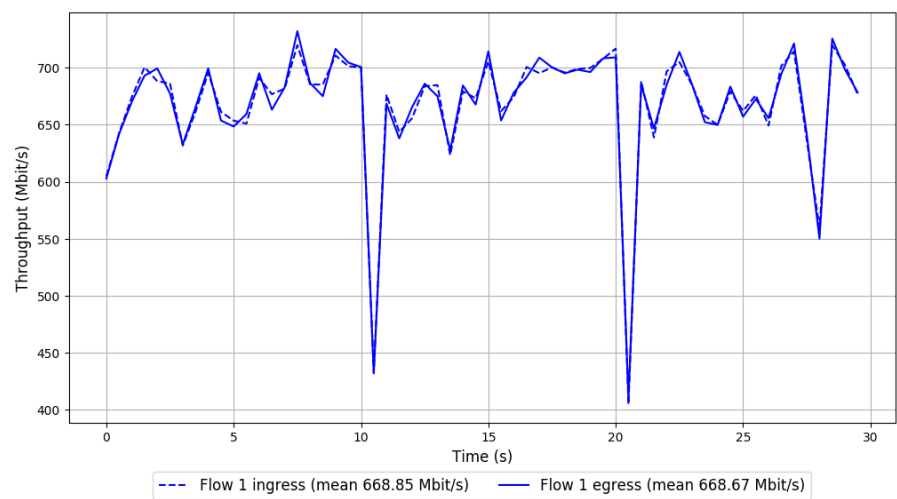


Run 5: Statistics of TCP BBR

Start at: 2017-12-05 14:14:19
End at: 2017-12-05 14:14:49
Local clock offset: -0.133 ms
Remote clock offset: -0.187 ms

Below is generated by plot.py at 2017-12-05 17:37:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 668.67 Mbit/s
95th percentile per-packet one-way delay: 13.117 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 668.67 Mbit/s
95th percentile per-packet one-way delay: 13.117 ms
Loss rate: 0.03%

Run 5: Report of TCP BBR — Data Link

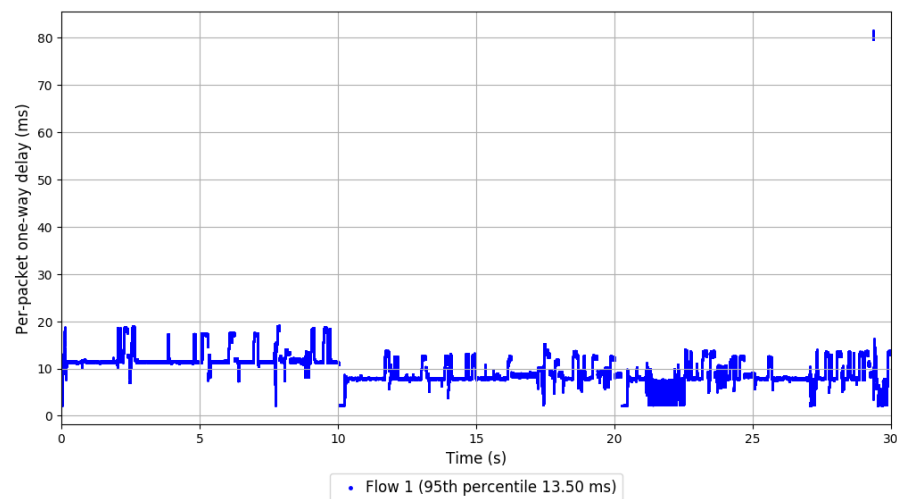
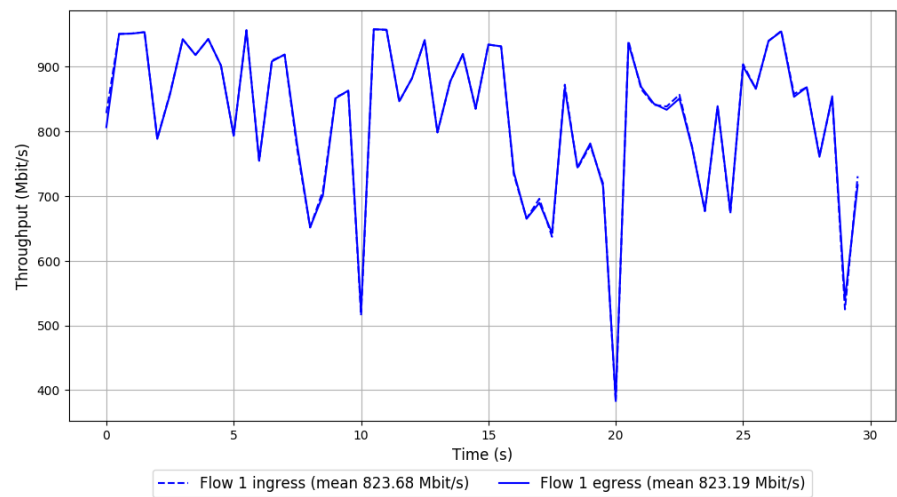


Run 6: Statistics of TCP BBR

Start at: 2017-12-05 14:32:19
End at: 2017-12-05 14:32:49
Local clock offset: 0.005 ms
Remote clock offset: -0.116 ms

Below is generated by plot.py at 2017-12-05 17:37:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 823.19 Mbit/s
95th percentile per-packet one-way delay: 13.500 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 823.19 Mbit/s
95th percentile per-packet one-way delay: 13.500 ms
Loss rate: 0.06%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-12-05 14:50:19

End at: 2017-12-05 14:50:49

Local clock offset: 0.095 ms

Remote clock offset: -0.1 ms

Below is generated by plot.py at 2017-12-05 17:37:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 780.65 Mbit/s

95th percentile per-packet one-way delay: 17.768 ms

Loss rate: 0.19%

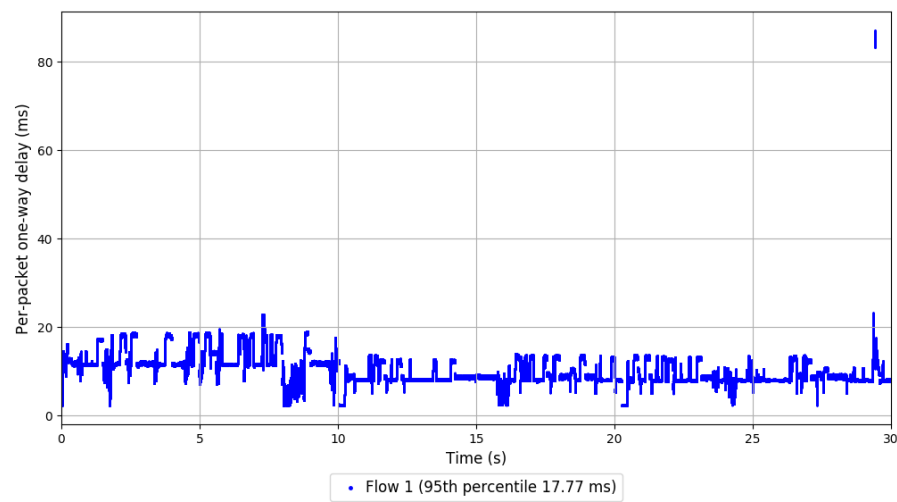
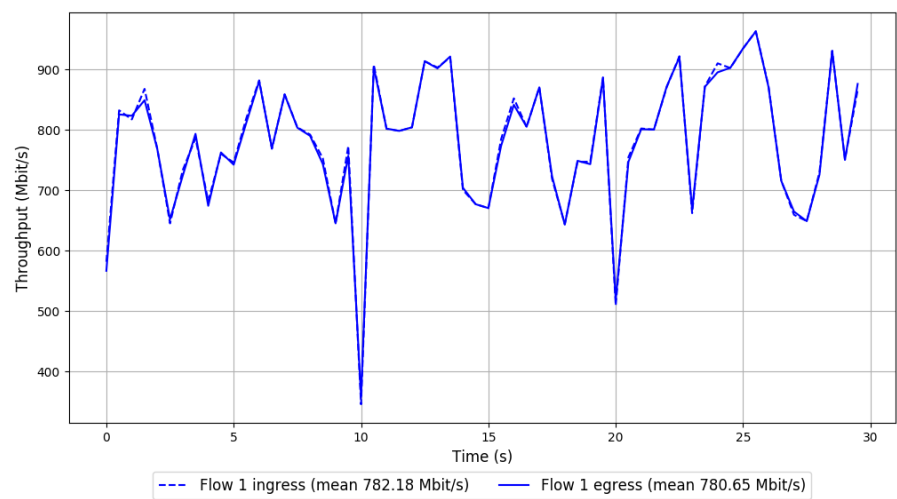
-- Flow 1:

Average throughput: 780.65 Mbit/s

95th percentile per-packet one-way delay: 17.768 ms

Loss rate: 0.19%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-12-05 15:08:20

End at: 2017-12-05 15:08:50

Local clock offset: 0.219 ms

Remote clock offset: -0.104 ms

Below is generated by plot.py at 2017-12-05 17:37:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 817.43 Mbit/s

95th percentile per-packet one-way delay: 15.406 ms

Loss rate: 0.33%

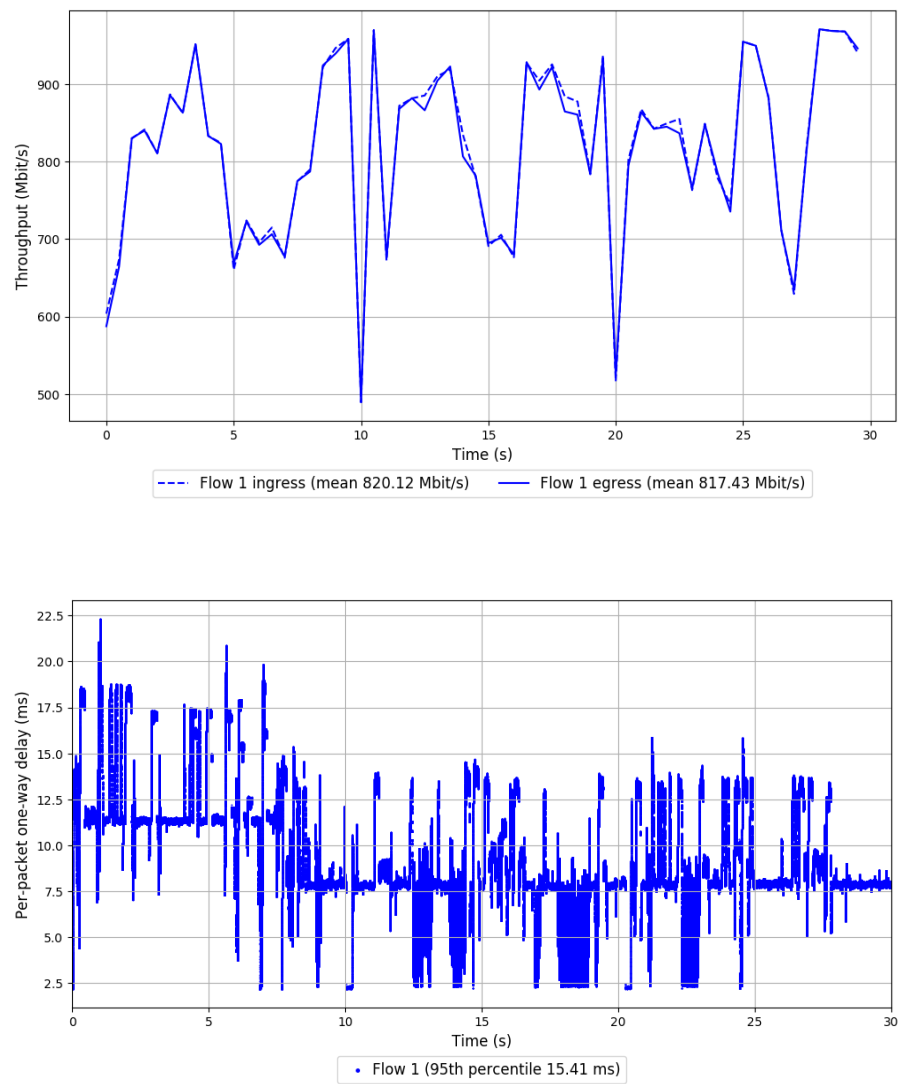
-- Flow 1:

Average throughput: 817.43 Mbit/s

95th percentile per-packet one-way delay: 15.406 ms

Loss rate: 0.33%

Run 8: Report of TCP BBR — Data Link

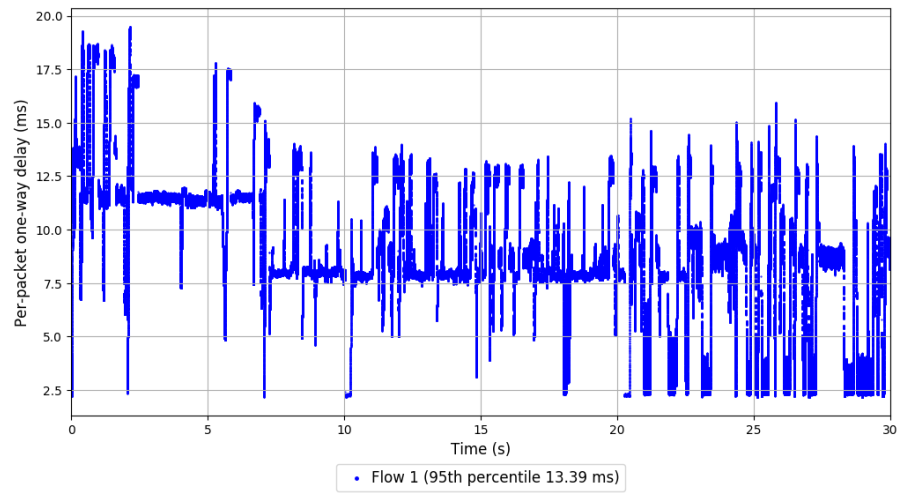
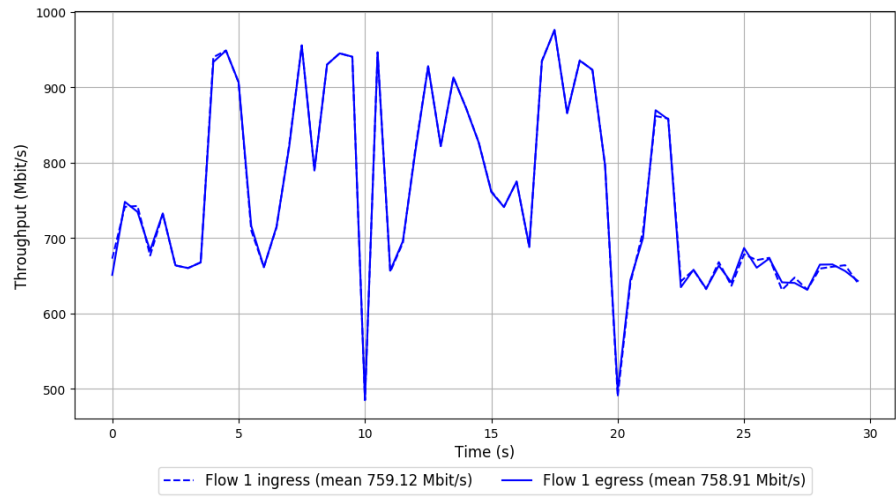


Run 9: Statistics of TCP BBR

Start at: 2017-12-05 15:26:19
End at: 2017-12-05 15:26:49
Local clock offset: 0.206 ms
Remote clock offset: -0.131 ms

Below is generated by plot.py at 2017-12-05 17:45:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 758.91 Mbit/s
95th percentile per-packet one-way delay: 13.391 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 758.91 Mbit/s
95th percentile per-packet one-way delay: 13.391 ms
Loss rate: 0.03%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-12-05 15:44:28

End at: 2017-12-05 15:44:58

Local clock offset: 0.171 ms

Remote clock offset: -0.125 ms

Below is generated by plot.py at 2017-12-05 17:47:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 829.60 Mbit/s

95th percentile per-packet one-way delay: 13.452 ms

Loss rate: 0.30%

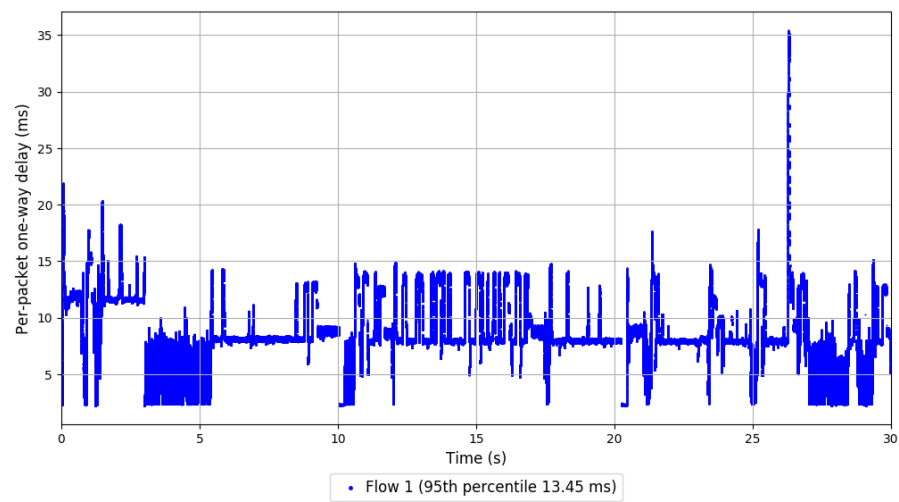
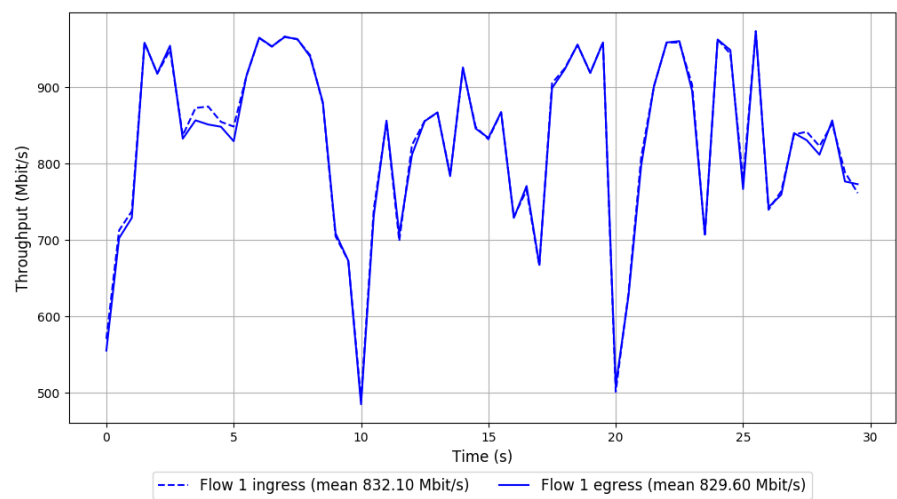
-- Flow 1:

Average throughput: 829.60 Mbit/s

95th percentile per-packet one-way delay: 13.452 ms

Loss rate: 0.30%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-12-05 12:50:35

End at: 2017-12-05 12:51:05

Local clock offset: -0.233 ms

Remote clock offset: 0.073 ms

Below is generated by plot.py at 2017-12-05 17:48:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 836.36 Mbit/s

95th percentile per-packet one-way delay: 36.296 ms

Loss rate: 0.02%

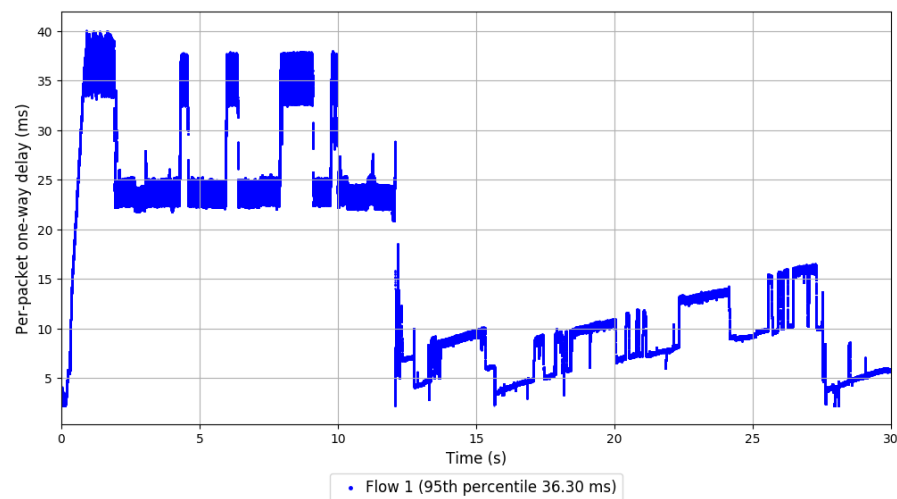
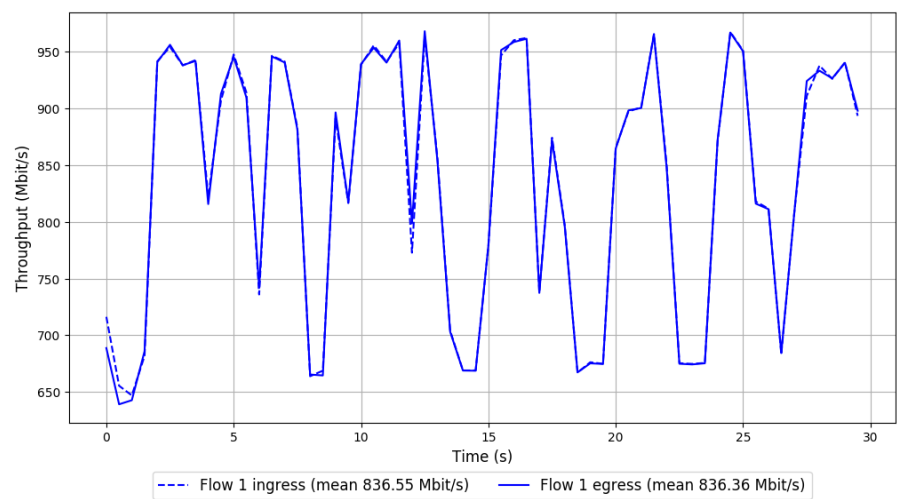
-- Flow 1:

Average throughput: 836.36 Mbit/s

95th percentile per-packet one-way delay: 36.296 ms

Loss rate: 0.02%

Run 1: Report of TCP Cubic — Data Link

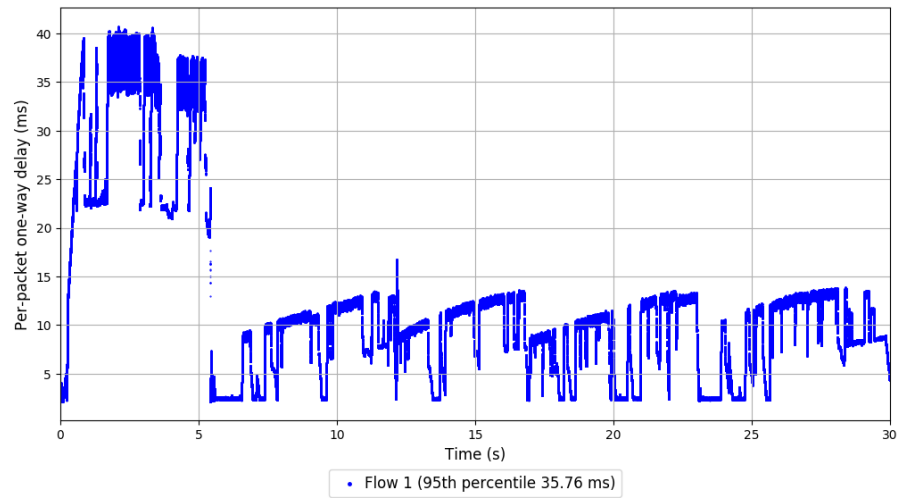
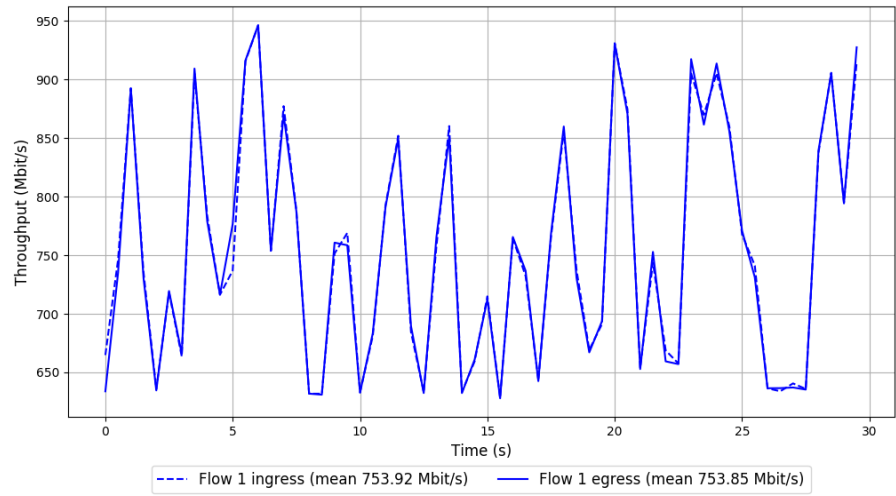


Run 2: Statistics of TCP Cubic

Start at: 2017-12-05 13:08:43
End at: 2017-12-05 13:09:13
Local clock offset: -0.173 ms
Remote clock offset: -0.054 ms

Below is generated by plot.py at 2017-12-05 17:48:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 753.85 Mbit/s
95th percentile per-packet one-way delay: 35.759 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 753.85 Mbit/s
95th percentile per-packet one-way delay: 35.759 ms
Loss rate: 0.01%

Run 2: Report of TCP Cubic — Data Link

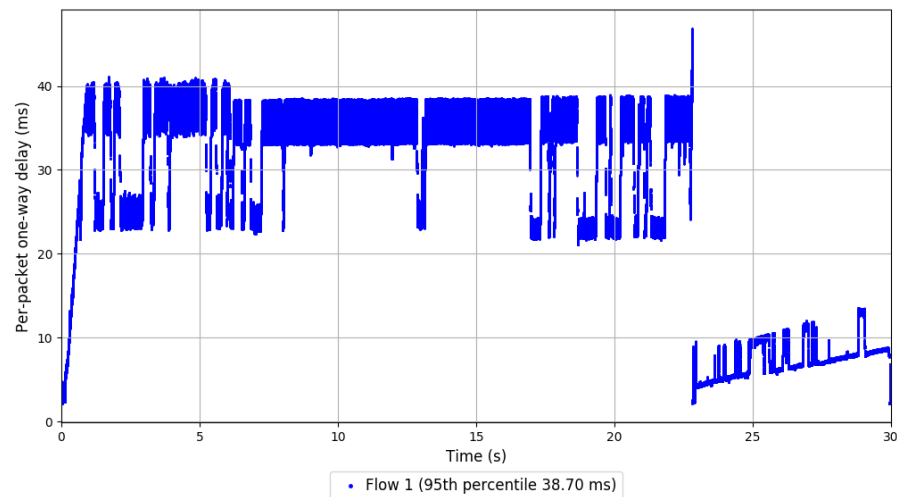
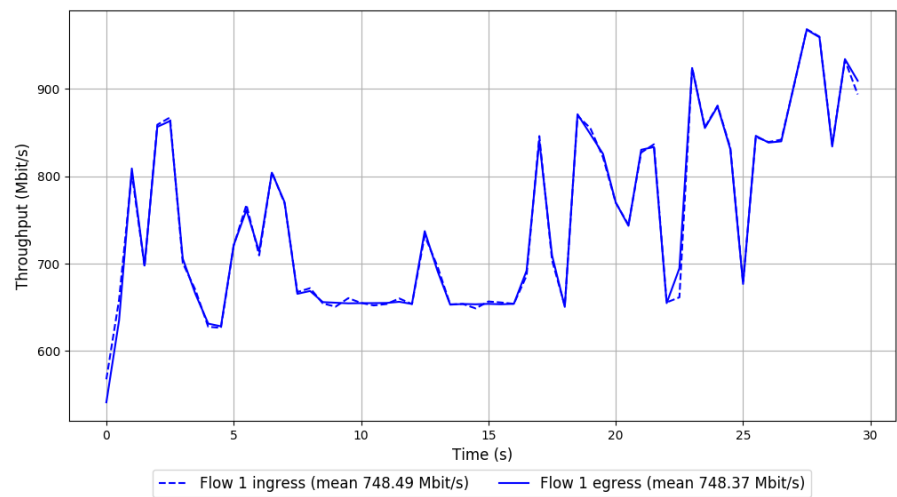


Run 3: Statistics of TCP Cubic

Start at: 2017-12-05 13:26:41
End at: 2017-12-05 13:27:11
Local clock offset: -0.132 ms
Remote clock offset: -0.112 ms

Below is generated by plot.py at 2017-12-05 17:48:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 748.37 Mbit/s
95th percentile per-packet one-way delay: 38.698 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 748.37 Mbit/s
95th percentile per-packet one-way delay: 38.698 ms
Loss rate: 0.02%

Run 3: Report of TCP Cubic — Data Link

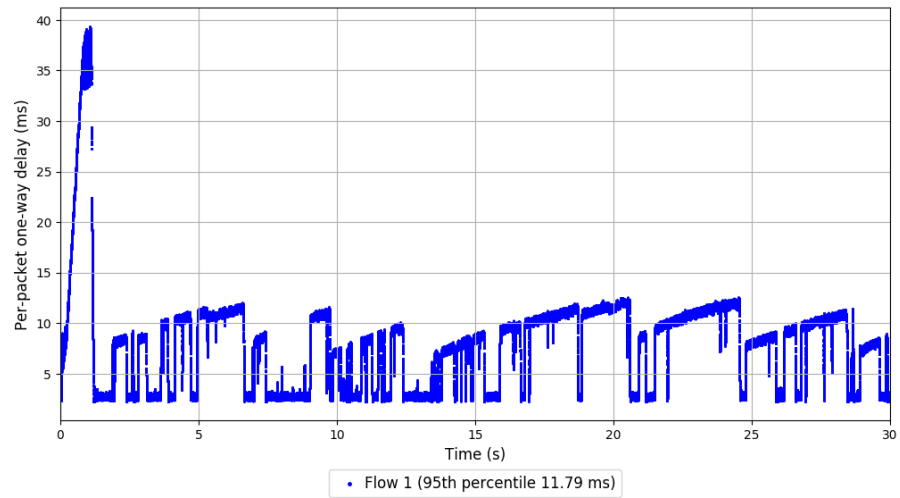
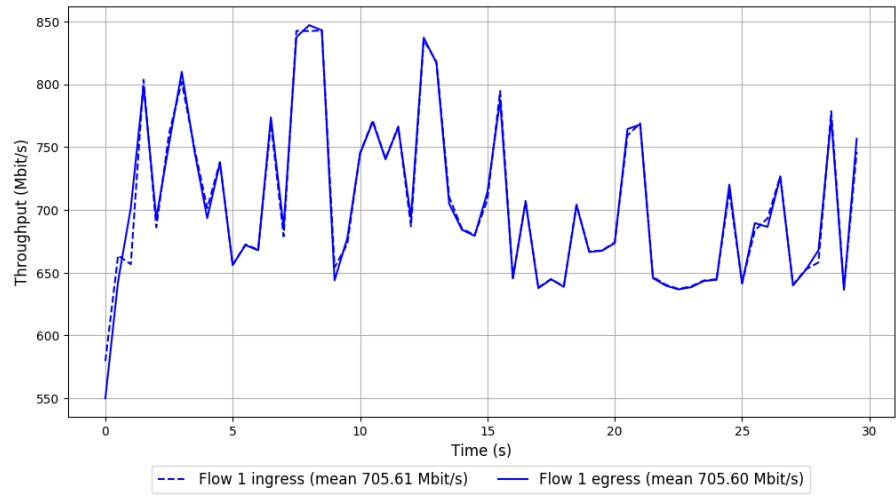


Run 4: Statistics of TCP Cubic

Start at: 2017-12-05 13:44:52
End at: 2017-12-05 13:45:22
Local clock offset: -0.207 ms
Remote clock offset: -0.125 ms

Below is generated by plot.py at 2017-12-05 17:48:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 705.60 Mbit/s
95th percentile per-packet one-way delay: 11.787 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 705.60 Mbit/s
95th percentile per-packet one-way delay: 11.787 ms
Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link

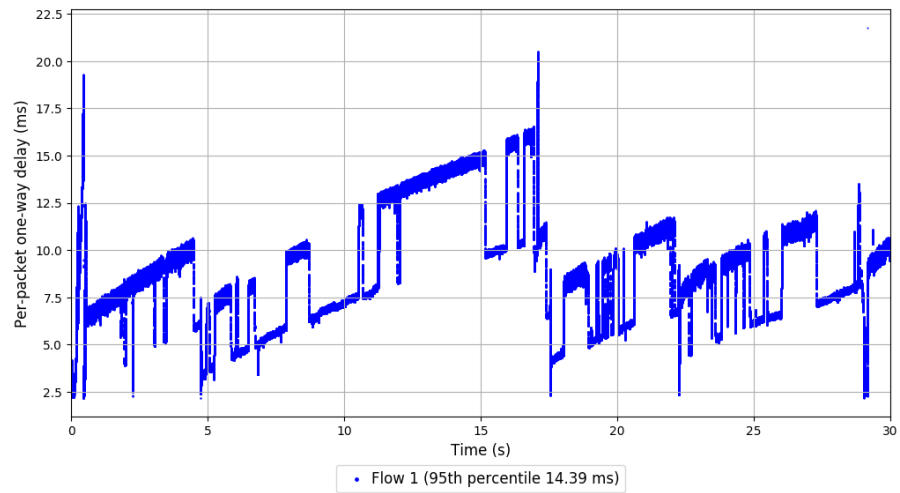
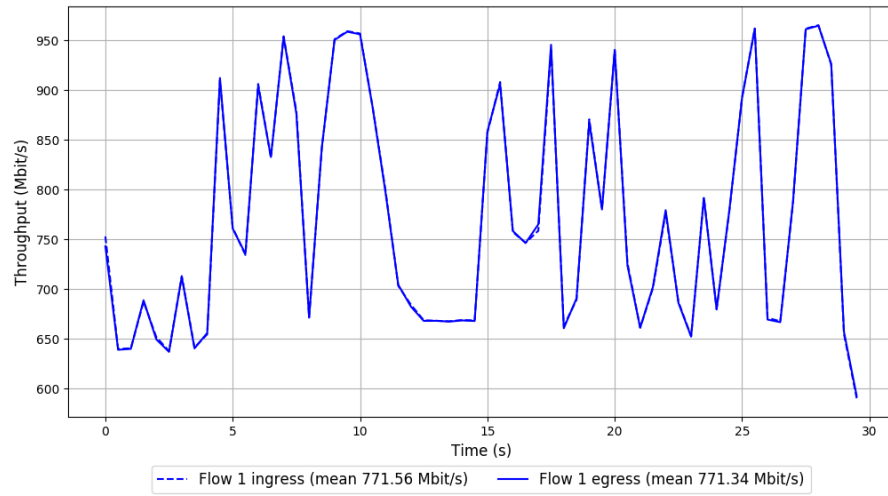


Run 5: Statistics of TCP Cubic

Start at: 2017-12-05 14:02:52
End at: 2017-12-05 14:03:22
Local clock offset: -0.083 ms
Remote clock offset: -0.096 ms

Below is generated by plot.py at 2017-12-05 17:48:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 771.34 Mbit/s
95th percentile per-packet one-way delay: 14.386 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 771.34 Mbit/s
95th percentile per-packet one-way delay: 14.386 ms
Loss rate: 0.03%

Run 5: Report of TCP Cubic — Data Link

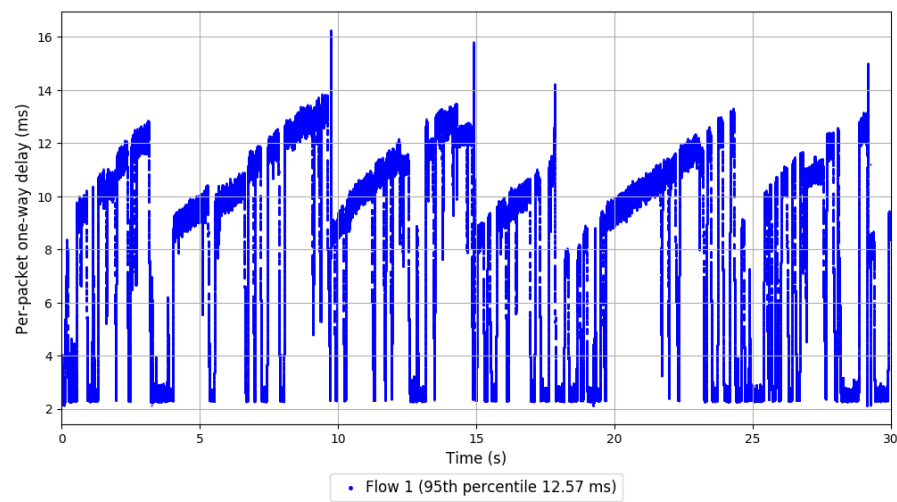
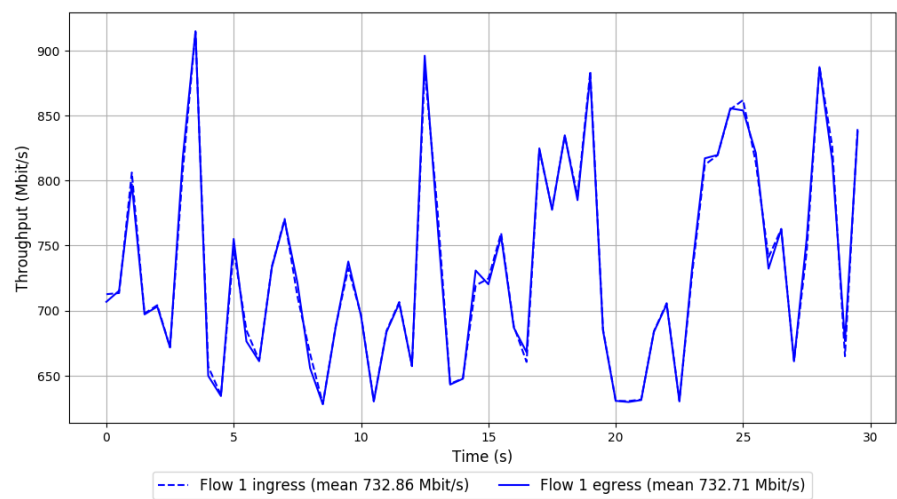


Run 6: Statistics of TCP Cubic

Start at: 2017-12-05 14:21:00
End at: 2017-12-05 14:21:30
Local clock offset: -0.024 ms
Remote clock offset: -0.122 ms

Below is generated by plot.py at 2017-12-05 17:48:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 732.71 Mbit/s
95th percentile per-packet one-way delay: 12.569 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 732.71 Mbit/s
95th percentile per-packet one-way delay: 12.569 ms
Loss rate: 0.02%

Run 6: Report of TCP Cubic — Data Link

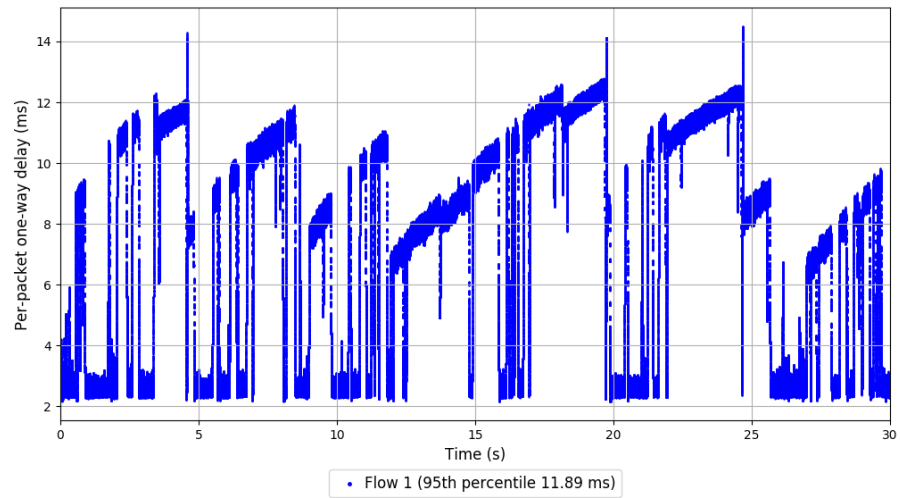
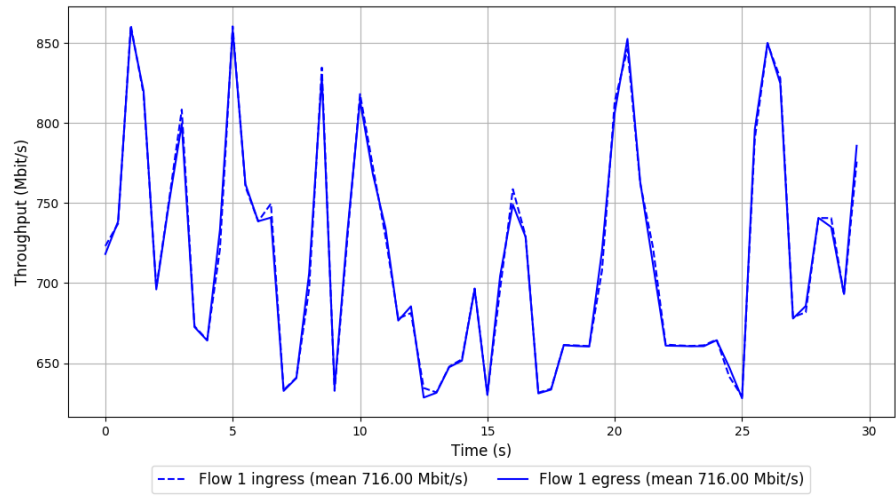


Run 7: Statistics of TCP Cubic

Start at: 2017-12-05 14:38:55
End at: 2017-12-05 14:39:25
Local clock offset: 0.043 ms
Remote clock offset: -0.107 ms

Below is generated by plot.py at 2017-12-05 17:55:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 716.00 Mbit/s
95th percentile per-packet one-way delay: 11.886 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 716.00 Mbit/s
95th percentile per-packet one-way delay: 11.886 ms
Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link

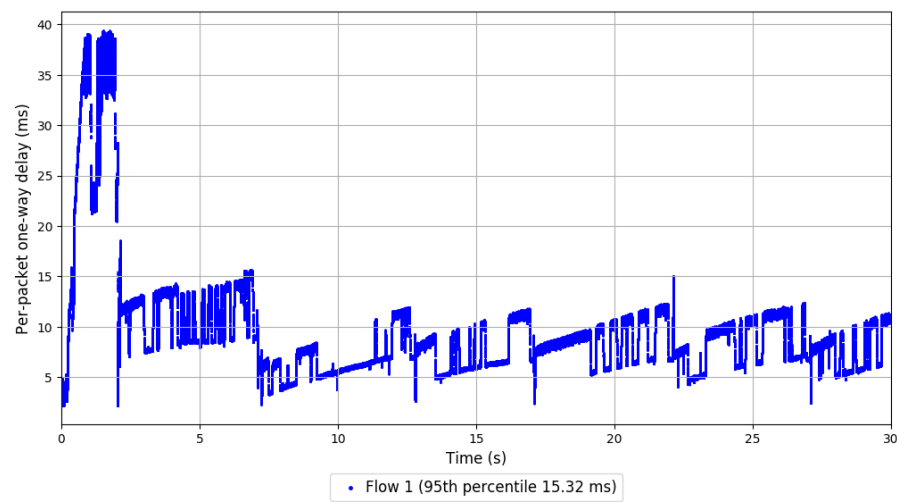
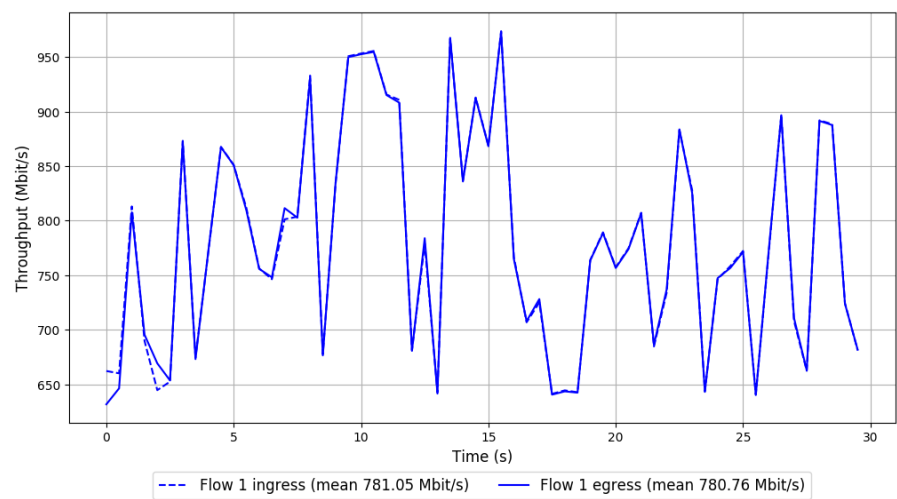


Run 8: Statistics of TCP Cubic

Start at: 2017-12-05 14:56:56
End at: 2017-12-05 14:57:26
Local clock offset: 0.152 ms
Remote clock offset: -0.107 ms

Below is generated by plot.py at 2017-12-05 17:57:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 780.76 Mbit/s
95th percentile per-packet one-way delay: 15.320 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 780.76 Mbit/s
95th percentile per-packet one-way delay: 15.320 ms
Loss rate: 0.04%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-12-05 15:14:52

End at: 2017-12-05 15:15:22

Local clock offset: 0.281 ms

Remote clock offset: -0.18 ms

Below is generated by plot.py at 2017-12-05 17:59:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 846.92 Mbit/s

95th percentile per-packet one-way delay: 16.086 ms

Loss rate: 0.02%

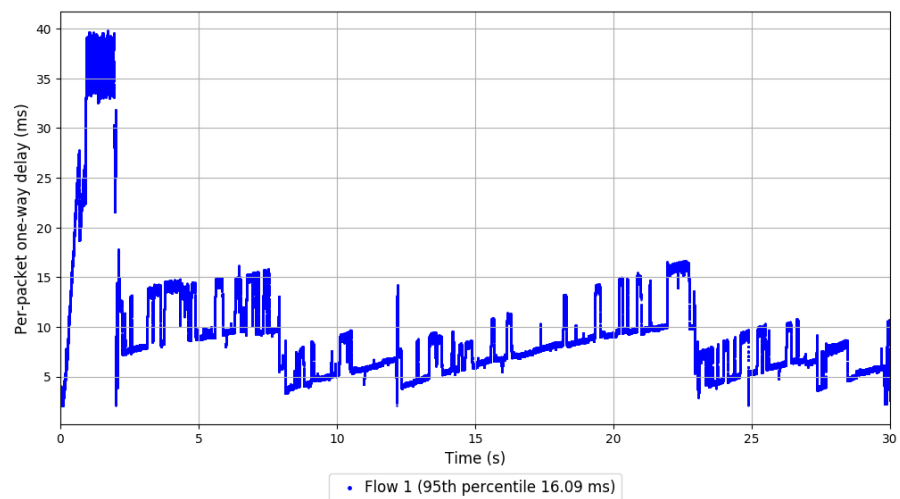
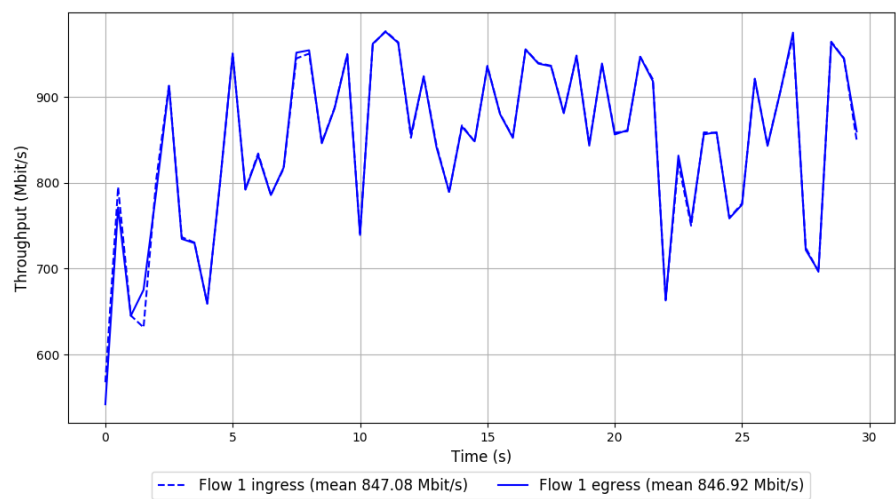
-- Flow 1:

Average throughput: 846.92 Mbit/s

95th percentile per-packet one-way delay: 16.086 ms

Loss rate: 0.02%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-12-05 15:32:51

End at: 2017-12-05 15:33:21

Local clock offset: 0.259 ms

Remote clock offset: -0.128 ms

Below is generated by plot.py at 2017-12-05 17:59:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 787.98 Mbit/s

95th percentile per-packet one-way delay: 38.753 ms

Loss rate: 0.08%

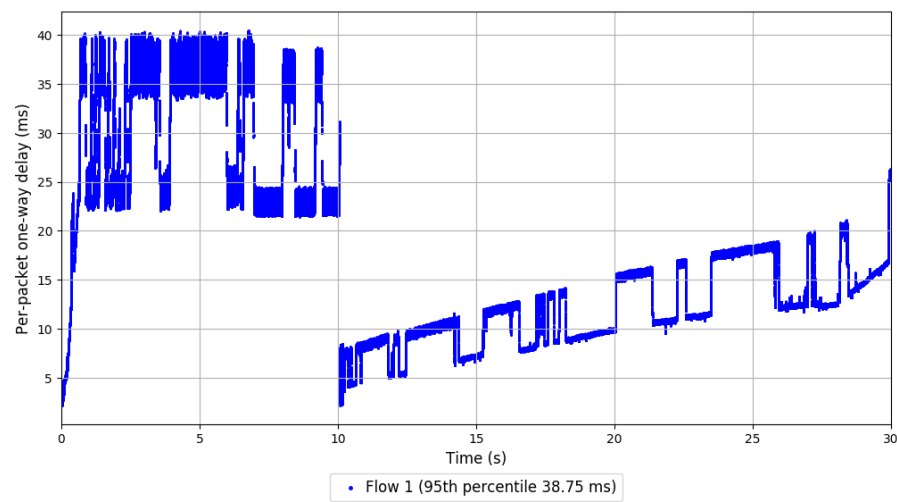
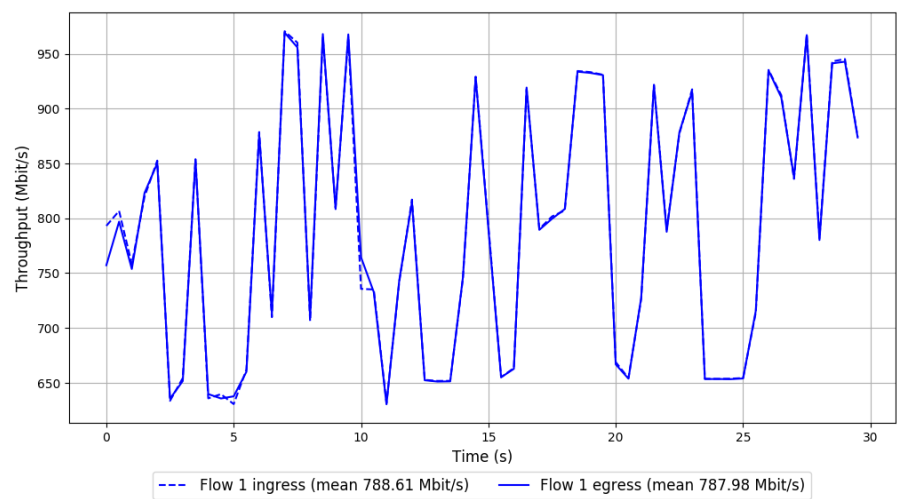
-- Flow 1:

Average throughput: 787.98 Mbit/s

95th percentile per-packet one-way delay: 38.753 ms

Loss rate: 0.08%

Run 10: Report of TCP Cubic — Data Link

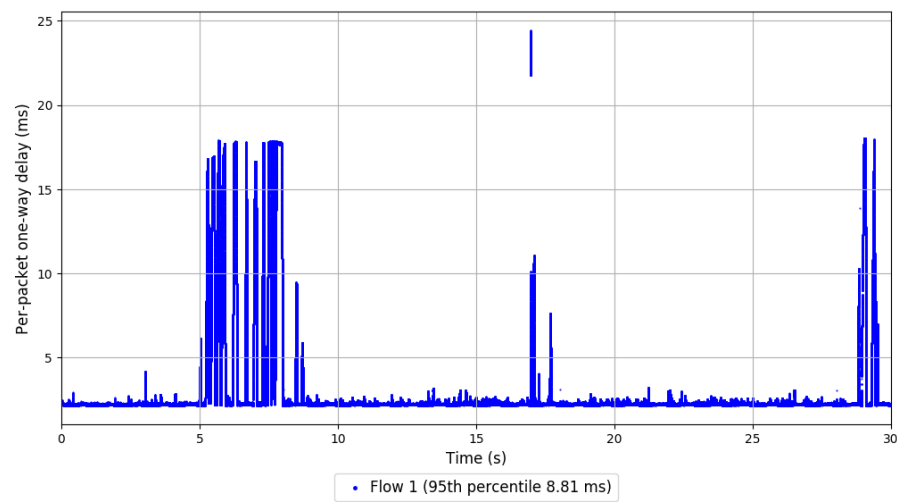
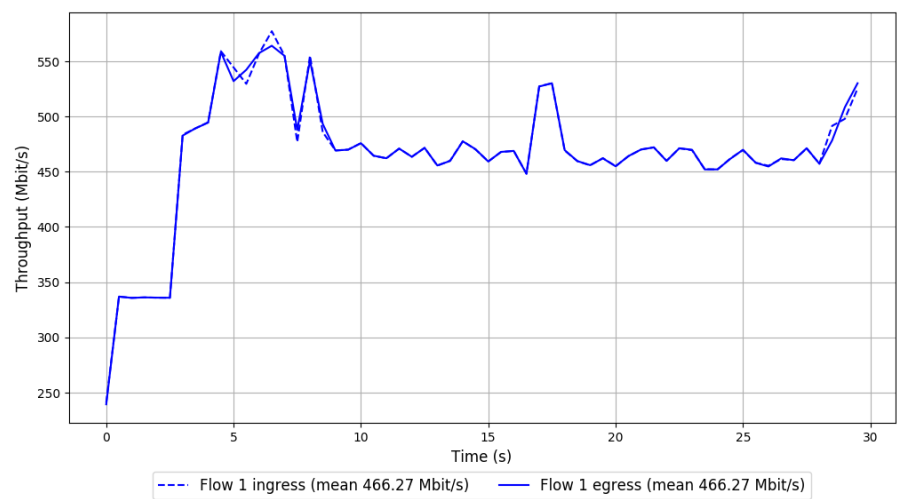


```
Run 1: Statistics of LEDBAT

Start at: 2017-12-05 13:00:31
End at: 2017-12-05 13:01:01
Local clock offset: -0.18 ms
Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2017-12-05 17:59:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 466.27 Mbit/s
95th percentile per-packet one-way delay: 8.806 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 466.27 Mbit/s
95th percentile per-packet one-way delay: 8.806 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

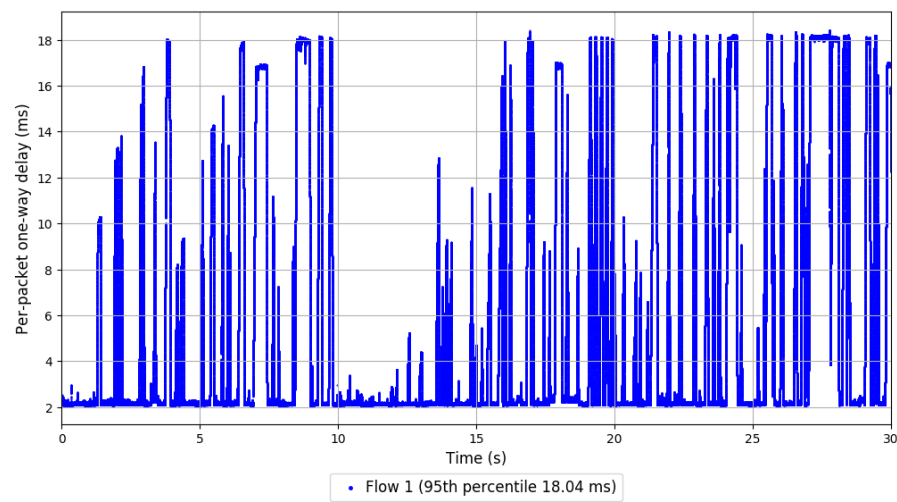
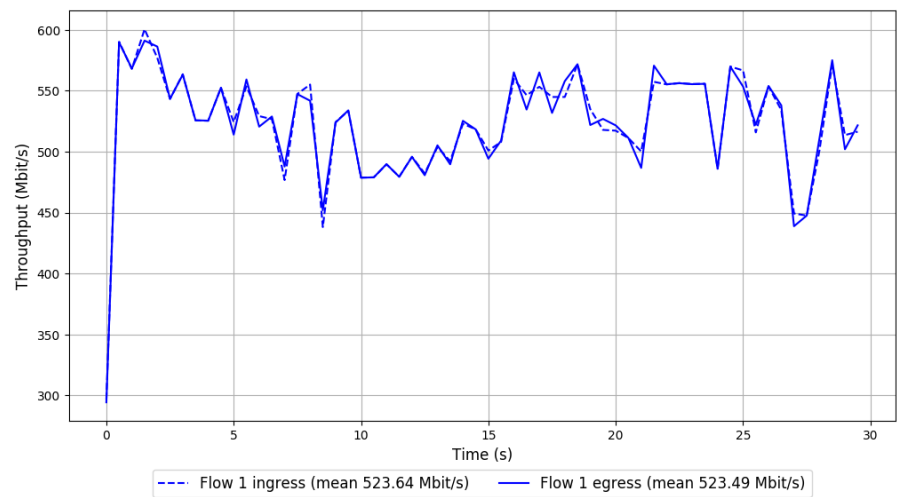


```
Run 2: Statistics of LEDBAT

Start at: 2017-12-05 13:18:34
End at: 2017-12-05 13:19:04
Local clock offset: -0.144 ms
Remote clock offset: -0.13 ms

# Below is generated by plot.py at 2017-12-05 17:59:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 523.49 Mbit/s
95th percentile per-packet one-way delay: 18.043 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 523.49 Mbit/s
95th percentile per-packet one-way delay: 18.043 ms
Loss rate: 0.03%
```

Run 2: Report of LEDBAT — Data Link

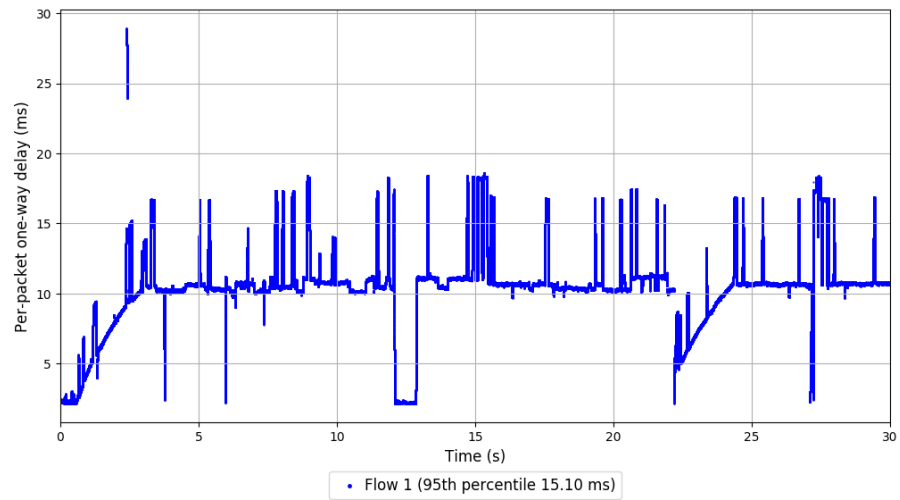
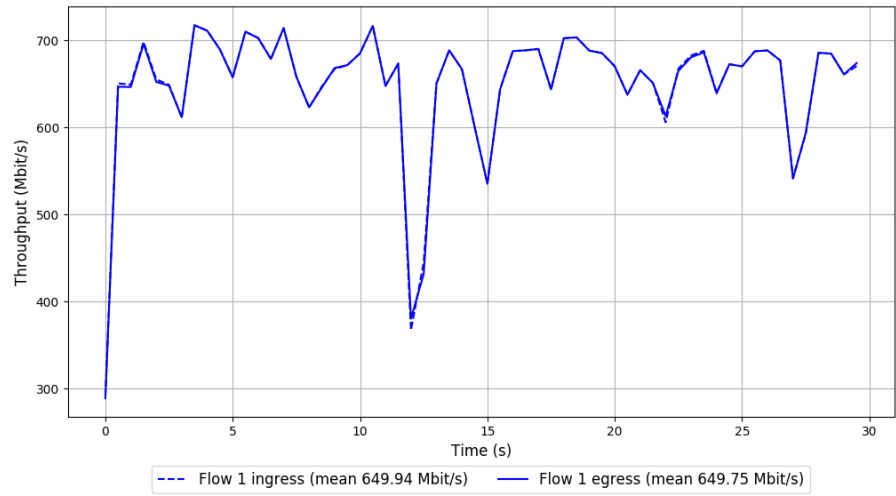


Run 3: Statistics of LEDBAT

Start at: 2017-12-05 13:36:35
End at: 2017-12-05 13:37:05
Local clock offset: -0.143 ms
Remote clock offset: -0.133 ms

Below is generated by plot.py at 2017-12-05 17:59:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 649.75 Mbit/s
95th percentile per-packet one-way delay: 15.103 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 649.75 Mbit/s
95th percentile per-packet one-way delay: 15.103 ms
Loss rate: 0.03%

Run 3: Report of LEDBAT — Data Link

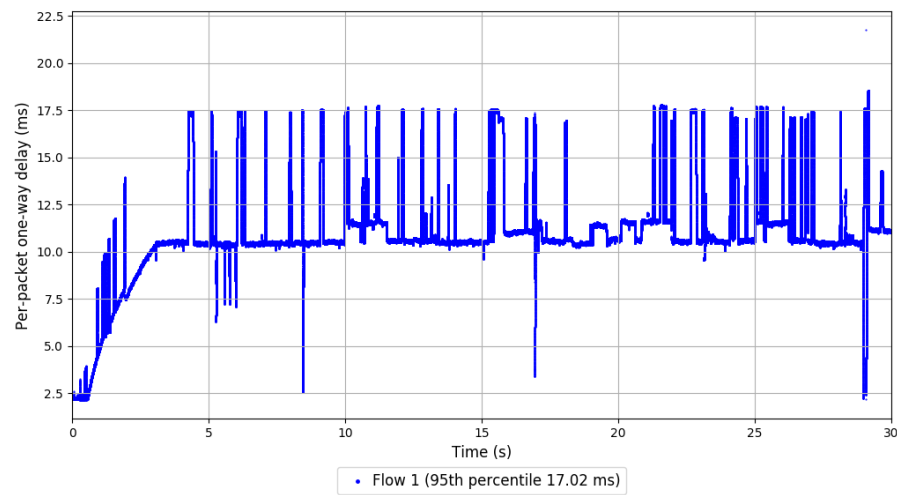
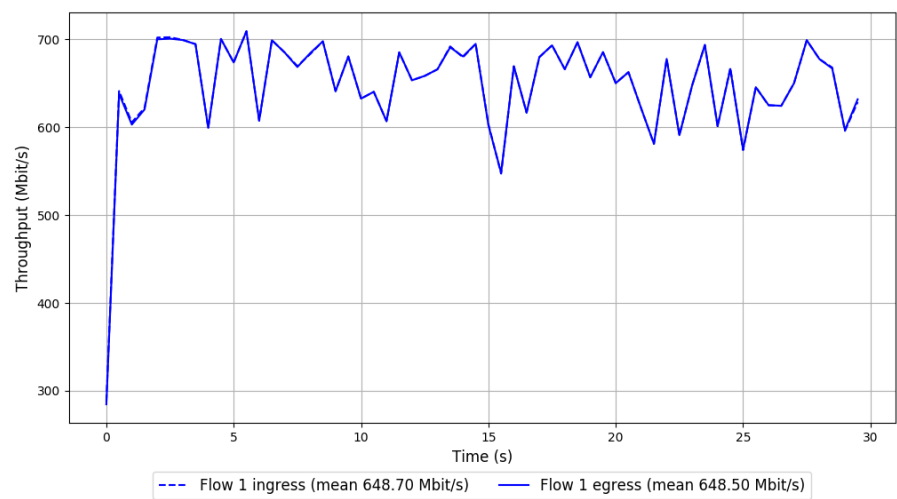


Run 4: Statistics of LEDBAT

Start at: 2017-12-05 13:54:36
End at: 2017-12-05 13:55:06
Local clock offset: -0.135 ms
Remote clock offset: -0.156 ms

Below is generated by plot.py at 2017-12-05 17:59:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 648.50 Mbit/s
95th percentile per-packet one-way delay: 17.023 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 648.50 Mbit/s
95th percentile per-packet one-way delay: 17.023 ms
Loss rate: 0.03%

Run 4: Report of LEDBAT — Data Link

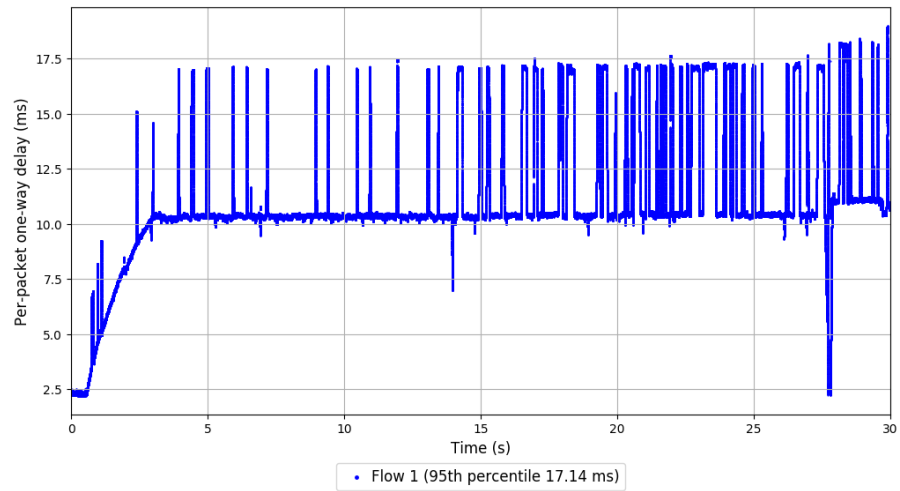
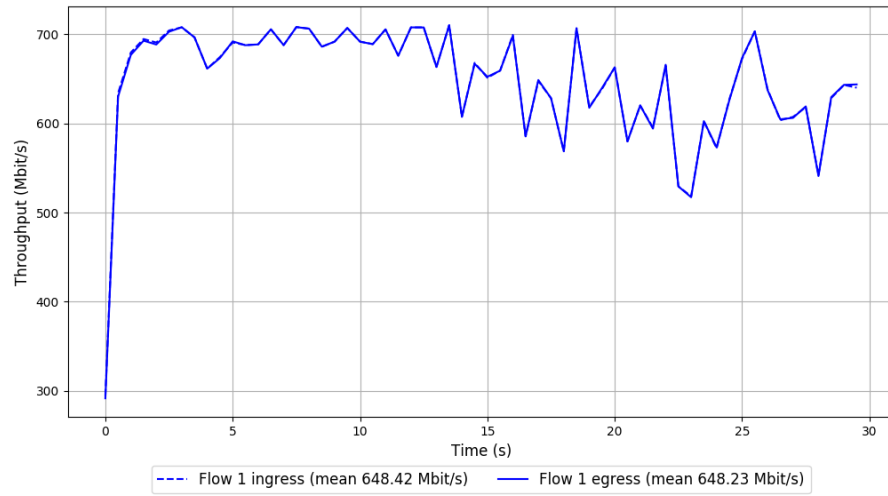


Run 5: Statistics of LEDBAT

Start at: 2017-12-05 14:12:40
End at: 2017-12-05 14:13:10
Local clock offset: -0.129 ms
Remote clock offset: -0.119 ms

Below is generated by plot.py at 2017-12-05 18:03:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 648.23 Mbit/s
95th percentile per-packet one-way delay: 17.144 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 648.23 Mbit/s
95th percentile per-packet one-way delay: 17.144 ms
Loss rate: 0.03%

Run 5: Report of LEDBAT — Data Link

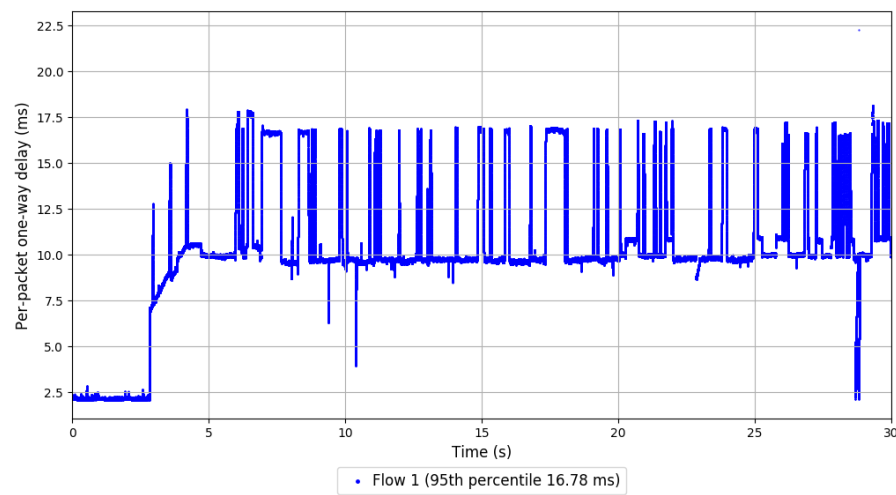
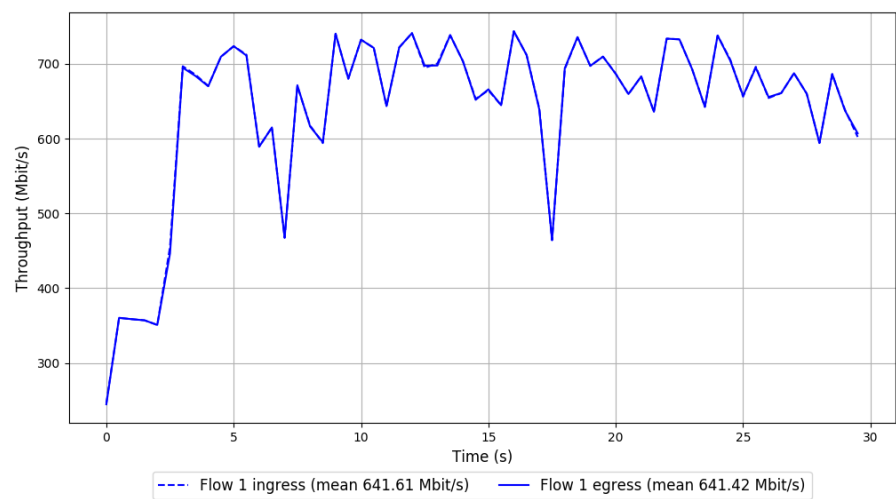


Run 6: Statistics of LEDBAT

Start at: 2017-12-05 14:30:41
End at: 2017-12-05 14:31:12
Local clock offset: 0.003 ms
Remote clock offset: -0.158 ms

Below is generated by plot.py at 2017-12-05 18:04:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 641.42 Mbit/s
95th percentile per-packet one-way delay: 16.783 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 641.42 Mbit/s
95th percentile per-packet one-way delay: 16.783 ms
Loss rate: 0.03%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-12-05 14:48:41

End at: 2017-12-05 14:49:11

Local clock offset: 0.086 ms

Remote clock offset: -0.11 ms

Below is generated by plot.py at 2017-12-05 18:04:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 614.73 Mbit/s

95th percentile per-packet one-way delay: 17.365 ms

Loss rate: 0.00%

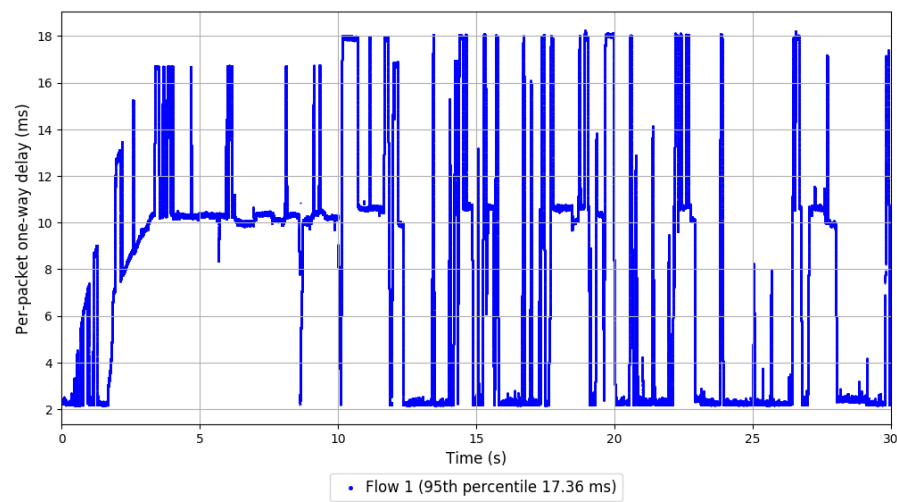
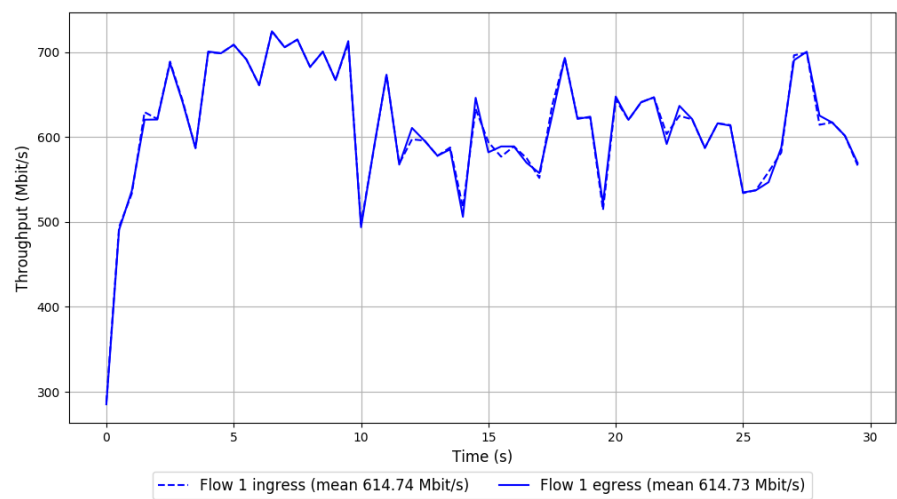
-- Flow 1:

Average throughput: 614.73 Mbit/s

95th percentile per-packet one-way delay: 17.365 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link

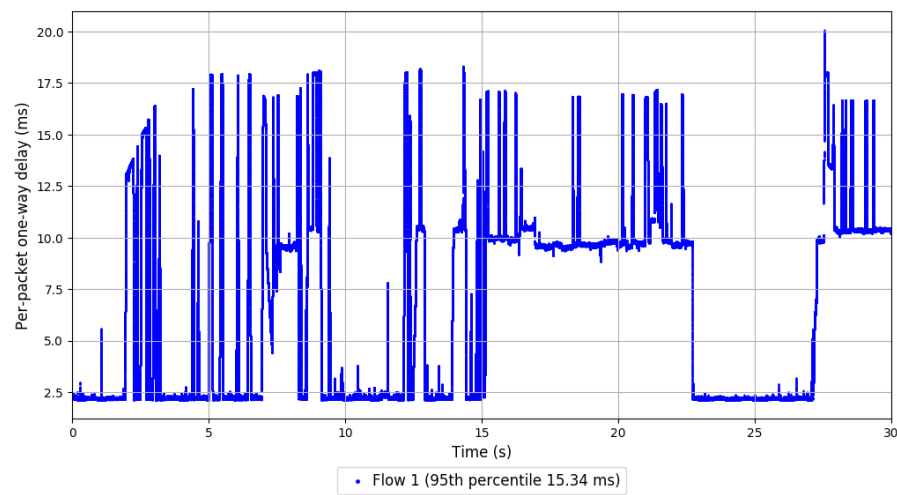
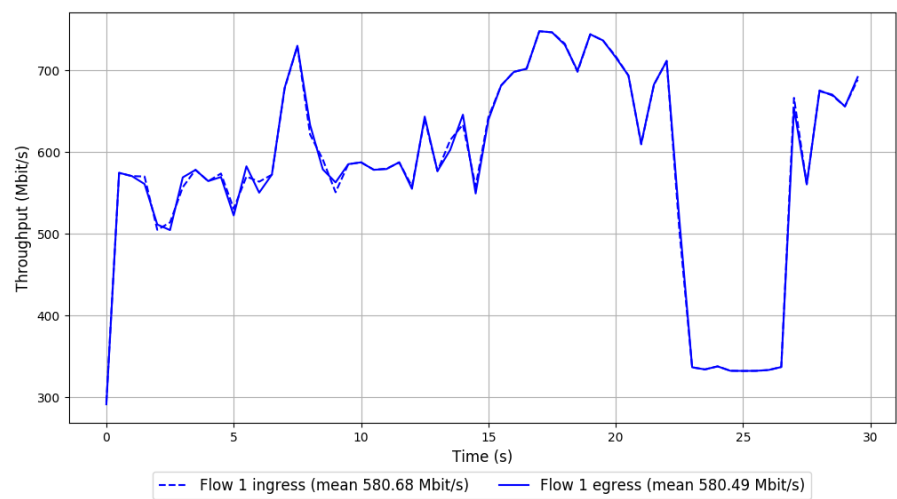


Run 8: Statistics of LEDBAT

Start at: 2017-12-05 15:06:46
End at: 2017-12-05 15:07:16
Local clock offset: 0.243 ms
Remote clock offset: -0.121 ms

Below is generated by plot.py at 2017-12-05 18:06:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 580.49 Mbit/s
95th percentile per-packet one-way delay: 15.335 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 580.49 Mbit/s
95th percentile per-packet one-way delay: 15.335 ms
Loss rate: 0.03%

Run 8: Report of LEDBAT — Data Link

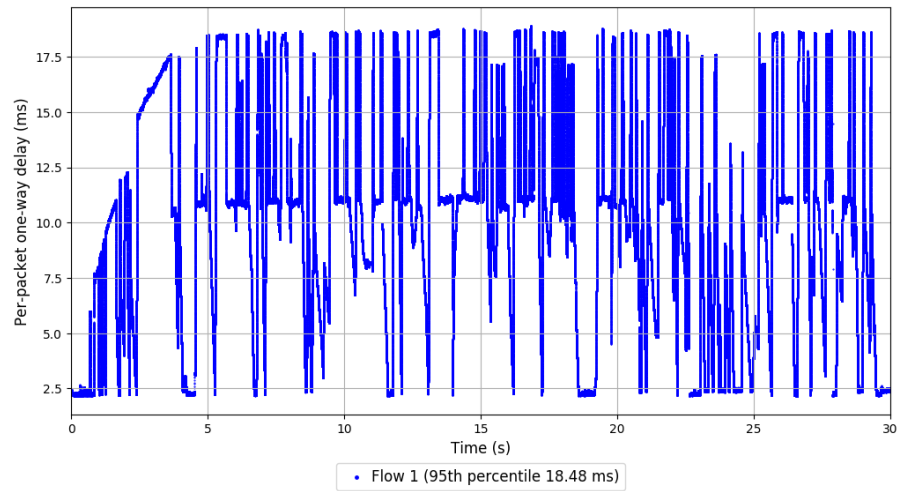
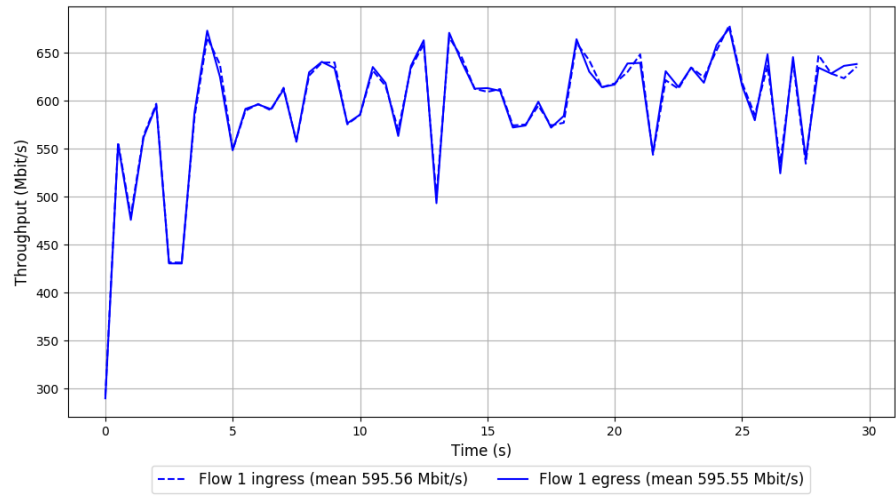


Run 9: Statistics of LEDBAT

Start at: 2017-12-05 15:24:43
End at: 2017-12-05 15:25:13
Local clock offset: 0.243 ms
Remote clock offset: -0.126 ms

Below is generated by plot.py at 2017-12-05 18:06:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 595.55 Mbit/s
95th percentile per-packet one-way delay: 18.478 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 595.55 Mbit/s
95th percentile per-packet one-way delay: 18.478 ms
Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link

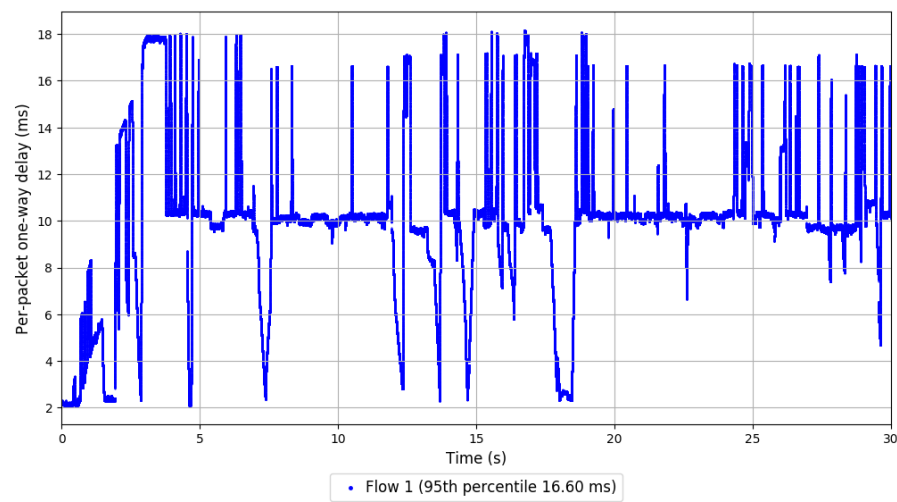
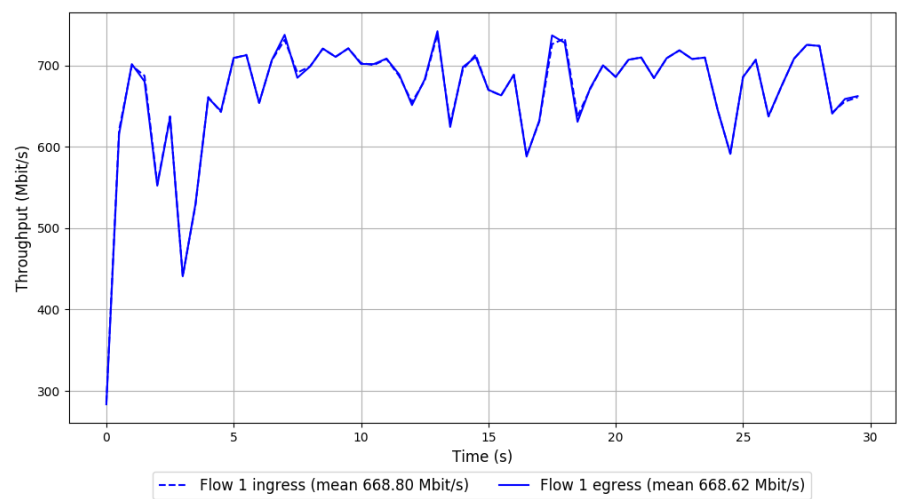


Run 10: Statistics of LEDBAT

Start at: 2017-12-05 15:42:47
End at: 2017-12-05 15:43:18
Local clock offset: 0.226 ms
Remote clock offset: -0.194 ms

Below is generated by plot.py at 2017-12-05 18:07:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 668.62 Mbit/s
95th percentile per-packet one-way delay: 16.601 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 668.62 Mbit/s
95th percentile per-packet one-way delay: 16.601 ms
Loss rate: 0.03%

Run 10: Report of LEDBAT — Data Link

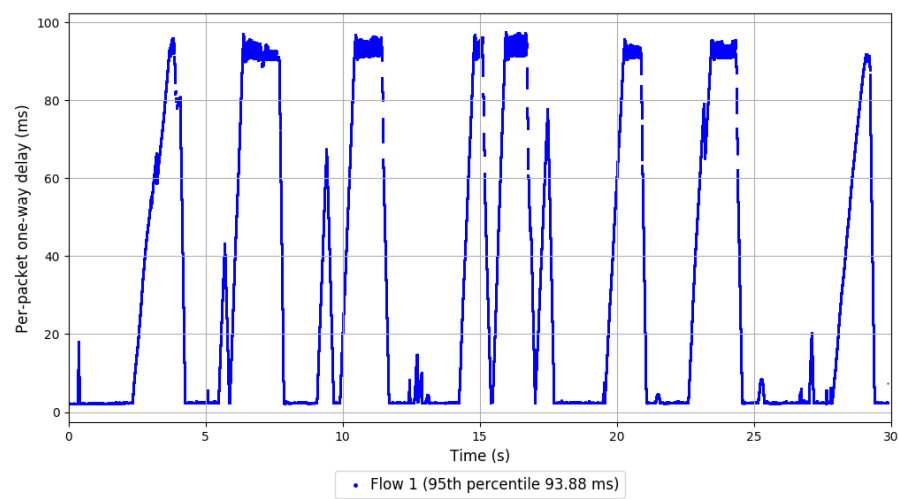
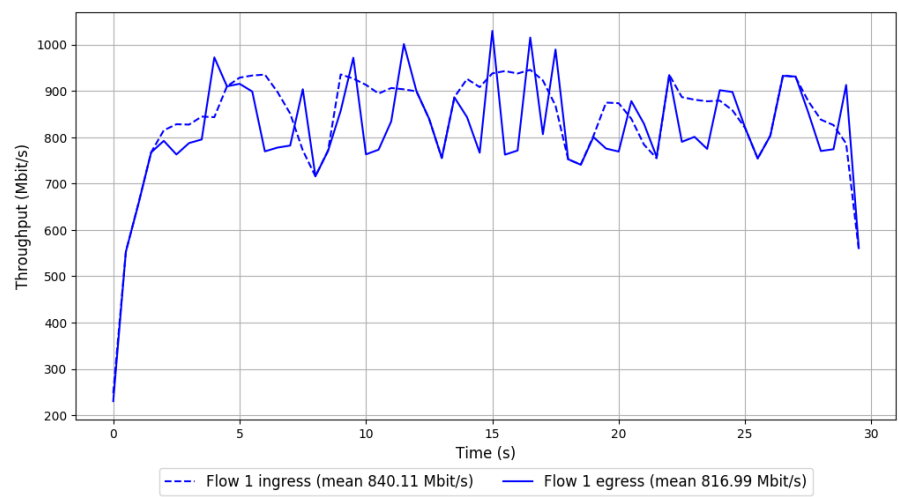


```
Run 1: Statistics of PCC

Start at: 2017-12-05 12:49:07
End at: 2017-12-05 12:49:37
Local clock offset: -0.178 ms
Remote clock offset: 0.078 ms

# Below is generated by plot.py at 2017-12-05 18:09:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 816.99 Mbit/s
95th percentile per-packet one-way delay: 93.876 ms
Loss rate: 2.74%
-- Flow 1:
Average throughput: 816.99 Mbit/s
95th percentile per-packet one-way delay: 93.876 ms
Loss rate: 2.74%
```

Run 1: Report of PCC — Data Link

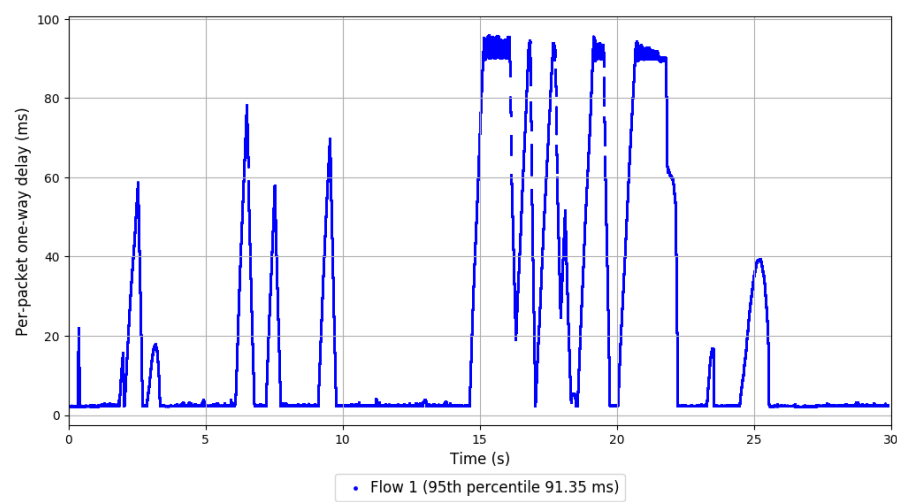
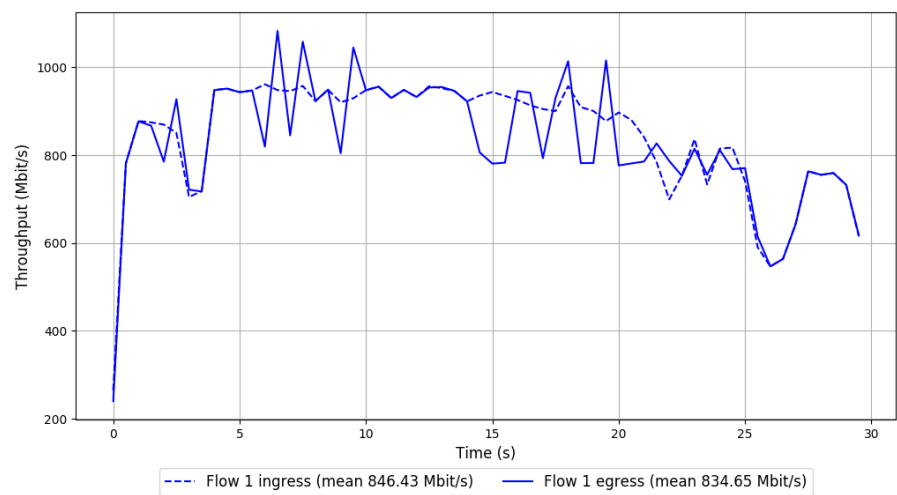


Run 2: Statistics of PCC

Start at: 2017-12-05 13:07:16
End at: 2017-12-05 13:07:46
Local clock offset: -0.184 ms
Remote clock offset: -0.038 ms

Below is generated by plot.py at 2017-12-05 18:10:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 834.65 Mbit/s
95th percentile per-packet one-way delay: 91.353 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 834.65 Mbit/s
95th percentile per-packet one-way delay: 91.353 ms
Loss rate: 1.39%

Run 2: Report of PCC — Data Link

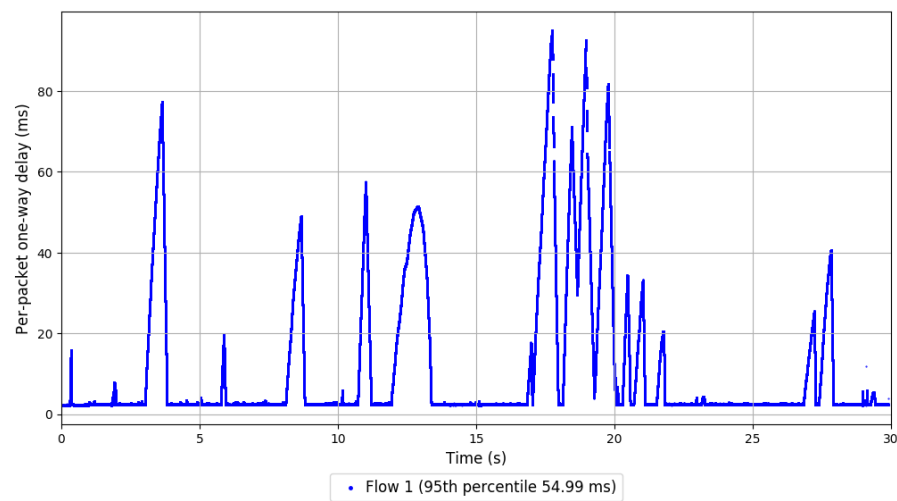
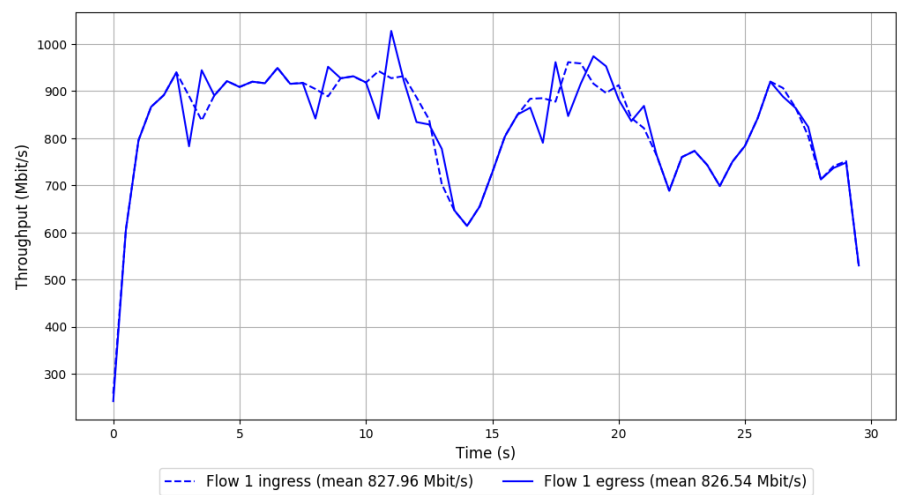


Run 3: Statistics of PCC

Start at: 2017-12-05 13:25:14
End at: 2017-12-05 13:25:44
Local clock offset: -0.201 ms
Remote clock offset: -0.173 ms

Below is generated by plot.py at 2017-12-05 18:15:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 826.54 Mbit/s
95th percentile per-packet one-way delay: 54.988 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 826.54 Mbit/s
95th percentile per-packet one-way delay: 54.988 ms
Loss rate: 0.17%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-12-05 13:43:26

End at: 2017-12-05 13:43:56

Local clock offset: -0.194 ms

Remote clock offset: -0.15 ms

Below is generated by plot.py at 2017-12-05 18:15:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 760.06 Mbit/s

95th percentile per-packet one-way delay: 45.656 ms

Loss rate: 0.17%

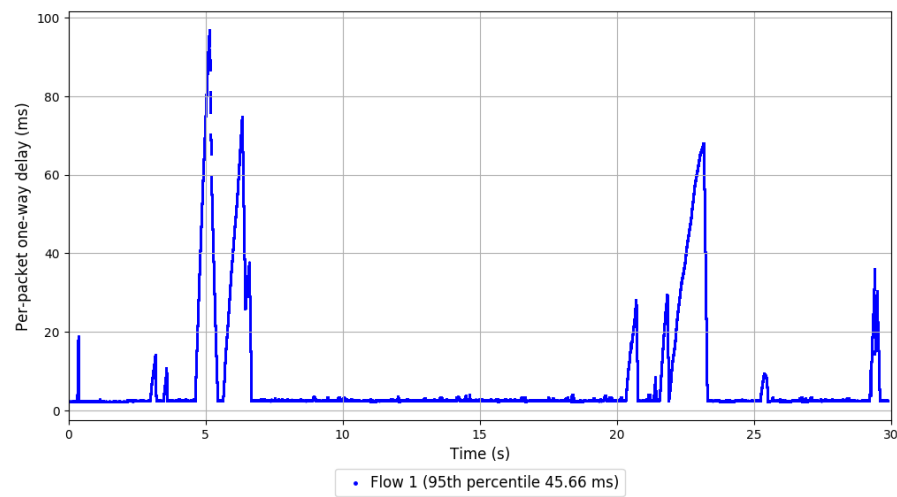
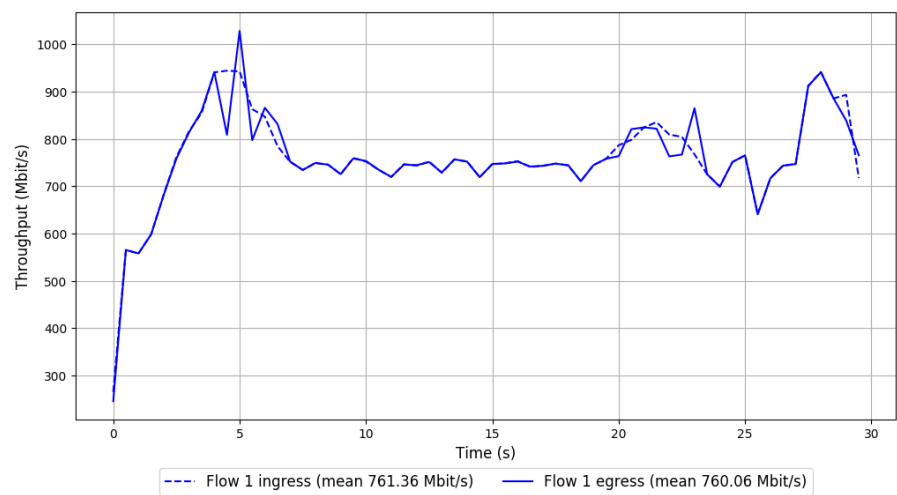
-- Flow 1:

Average throughput: 760.06 Mbit/s

95th percentile per-packet one-way delay: 45.656 ms

Loss rate: 0.17%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-12-05 14:01:24

End at: 2017-12-05 14:01:54

Local clock offset: -0.105 ms

Remote clock offset: -0.12 ms

Below is generated by plot.py at 2017-12-05 18:17:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 862.92 Mbit/s

95th percentile per-packet one-way delay: 69.584 ms

Loss rate: 0.34%

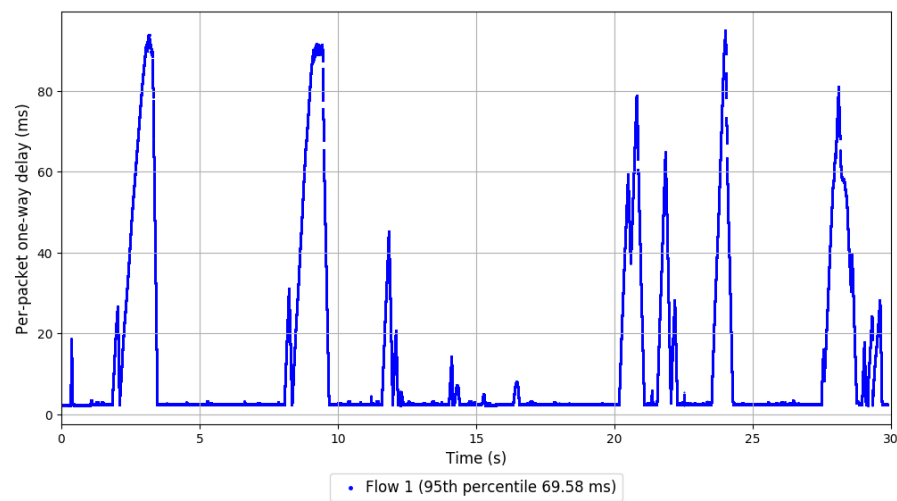
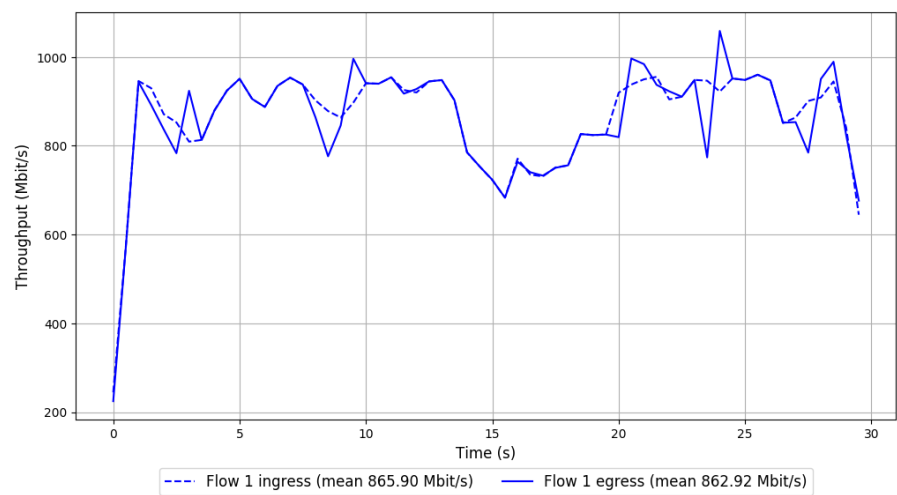
-- Flow 1:

Average throughput: 862.92 Mbit/s

95th percentile per-packet one-way delay: 69.584 ms

Loss rate: 0.34%

Run 5: Report of PCC — Data Link

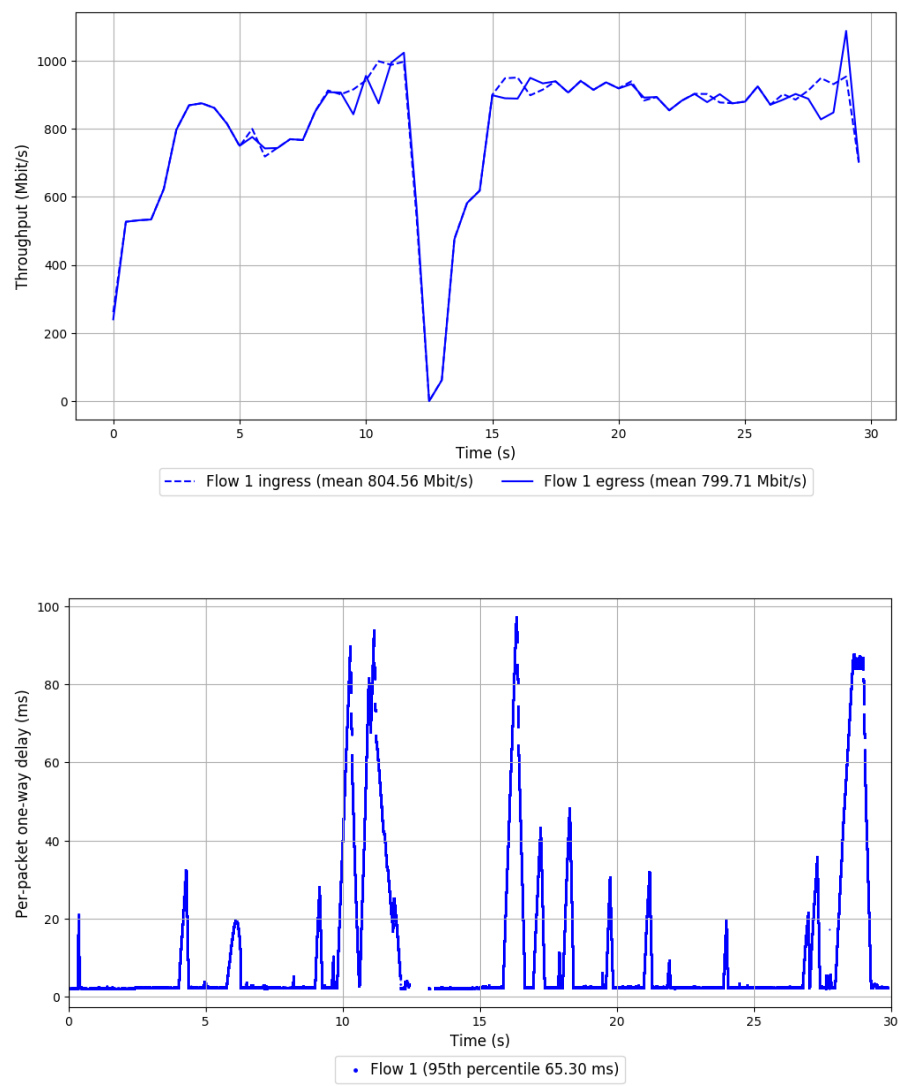


Run 6: Statistics of PCC

Start at: 2017-12-05 14:19:33
End at: 2017-12-05 14:20:03
Local clock offset: -0.031 ms
Remote clock offset: -0.111 ms

Below is generated by plot.py at 2017-12-05 18:17:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 799.71 Mbit/s
95th percentile per-packet one-way delay: 65.301 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 799.71 Mbit/s
95th percentile per-packet one-way delay: 65.301 ms
Loss rate: 0.60%

Run 6: Report of PCC — Data Link

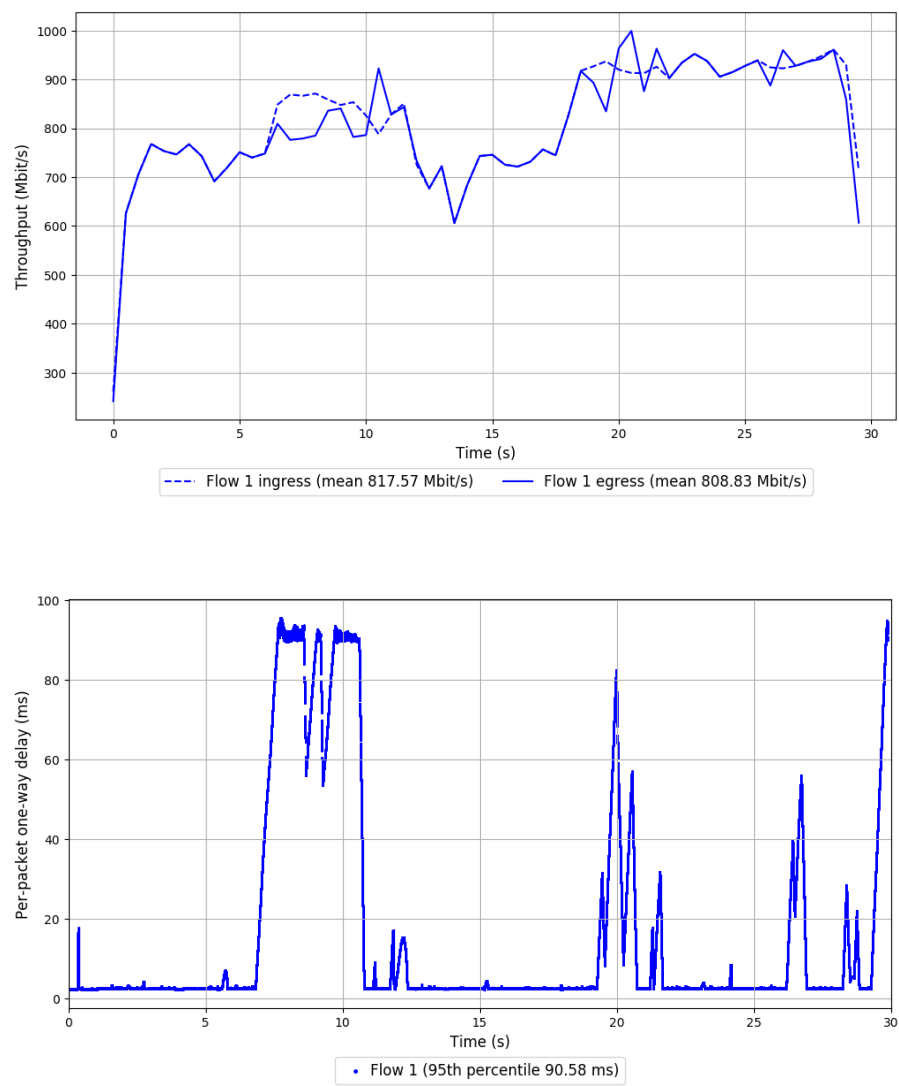


Run 7: Statistics of PCC

Start at: 2017-12-05 14:37:28
End at: 2017-12-05 14:37:58
Local clock offset: -0.029 ms
Remote clock offset: -0.104 ms

Below is generated by plot.py at 2017-12-05 18:18:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 808.83 Mbit/s
95th percentile per-packet one-way delay: 90.582 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 808.83 Mbit/s
95th percentile per-packet one-way delay: 90.582 ms
Loss rate: 1.07%

Run 7: Report of PCC — Data Link

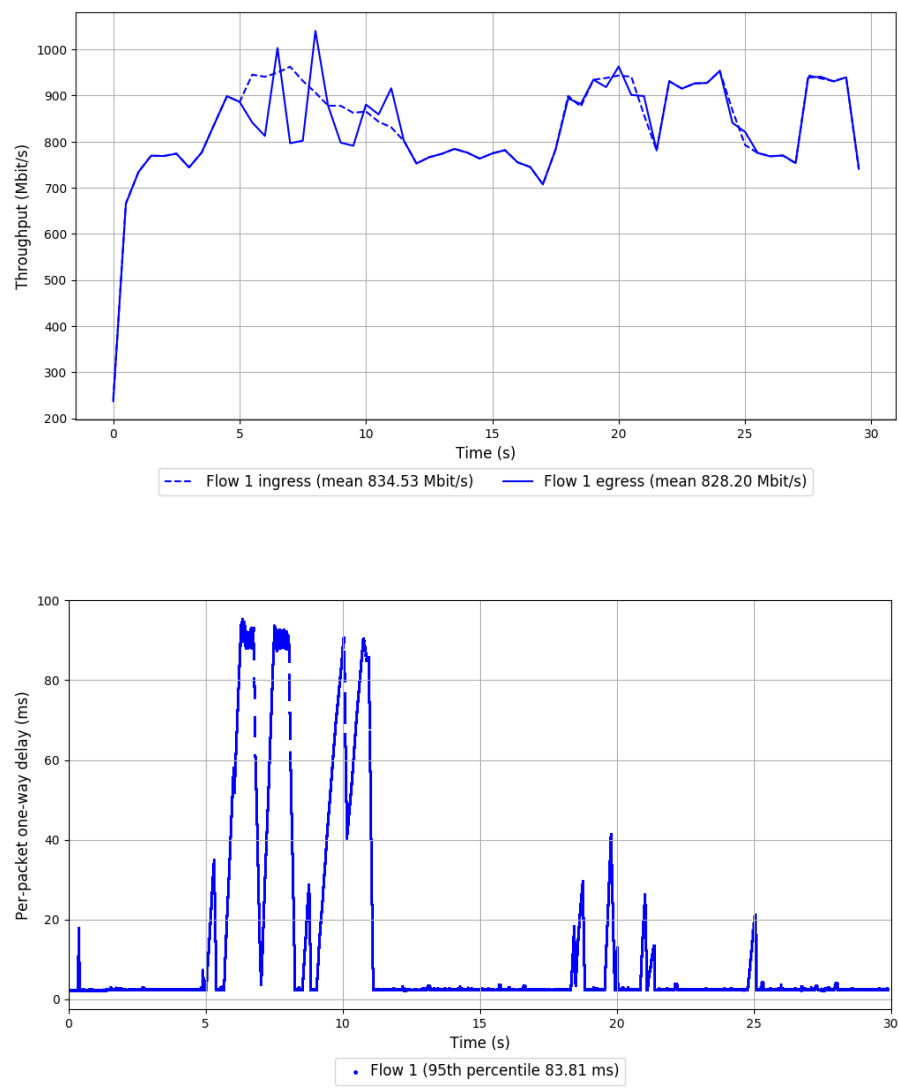


Run 8: Statistics of PCC

Start at: 2017-12-05 14:55:28
End at: 2017-12-05 14:55:58
Local clock offset: 0.142 ms
Remote clock offset: -0.108 ms

Below is generated by plot.py at 2017-12-05 18:20:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 828.20 Mbit/s
95th percentile per-packet one-way delay: 83.812 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 828.20 Mbit/s
95th percentile per-packet one-way delay: 83.812 ms
Loss rate: 0.76%

Run 8: Report of PCC — Data Link

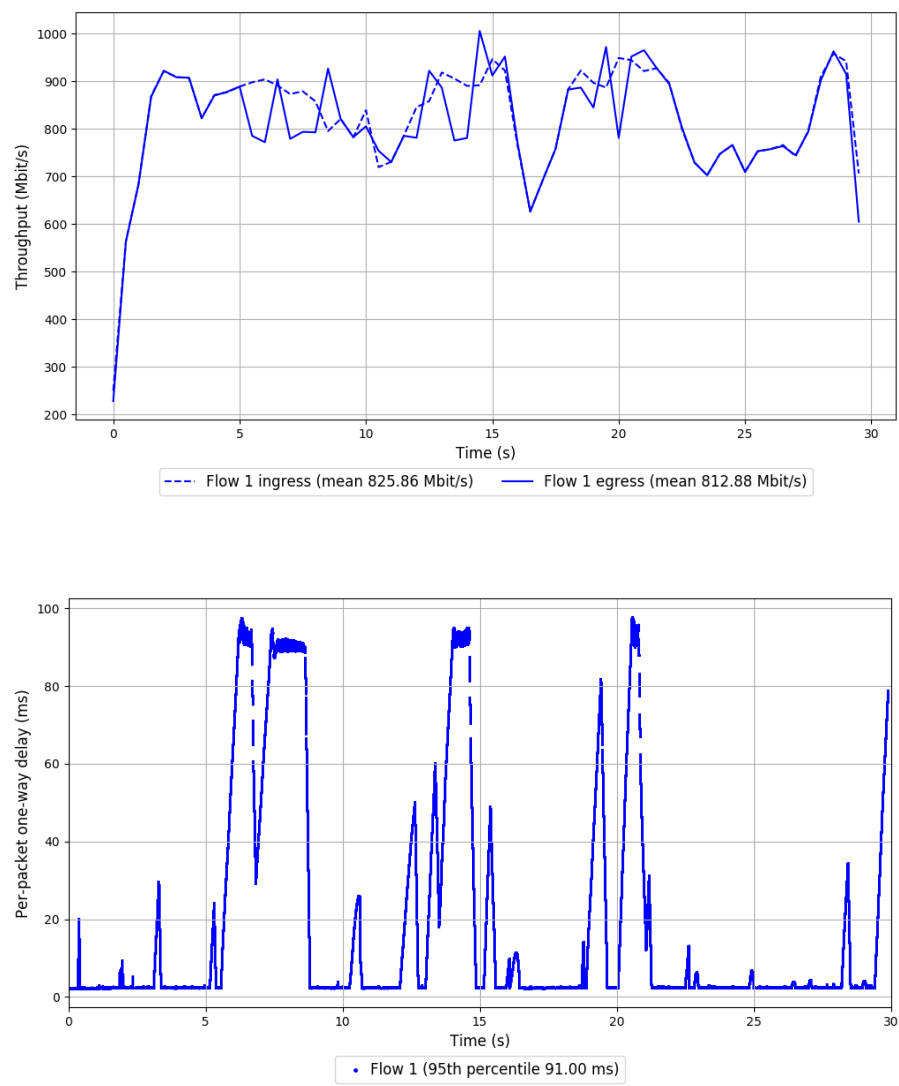


Run 9: Statistics of PCC

Start at: 2017-12-05 15:13:25
End at: 2017-12-05 15:13:55
Local clock offset: 0.266 ms
Remote clock offset: -0.136 ms

Below is generated by plot.py at 2017-12-05 18:23:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 812.88 Mbit/s
95th percentile per-packet one-way delay: 91.002 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 812.88 Mbit/s
95th percentile per-packet one-way delay: 91.002 ms
Loss rate: 1.57%

Run 9: Report of PCC — Data Link

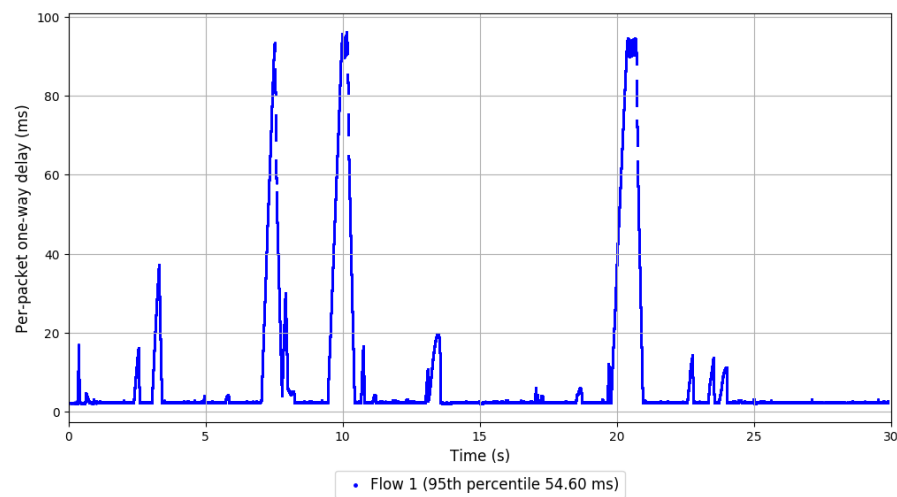
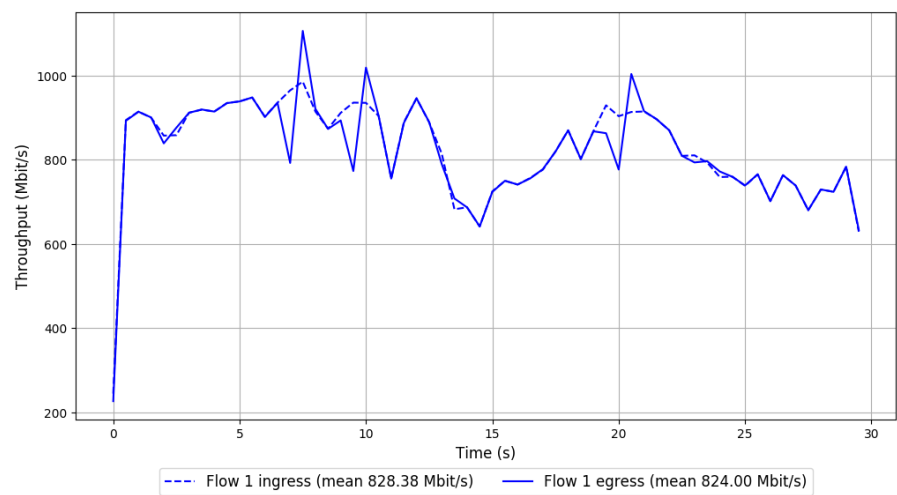


Run 10: Statistics of PCC

Start at: 2017-12-05 15:31:24
End at: 2017-12-05 15:31:54
Local clock offset: 0.236 ms
Remote clock offset: -0.125 ms

Below is generated by plot.py at 2017-12-05 18:23:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 824.00 Mbit/s
95th percentile per-packet one-way delay: 54.601 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 824.00 Mbit/s
95th percentile per-packet one-way delay: 54.601 ms
Loss rate: 0.53%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

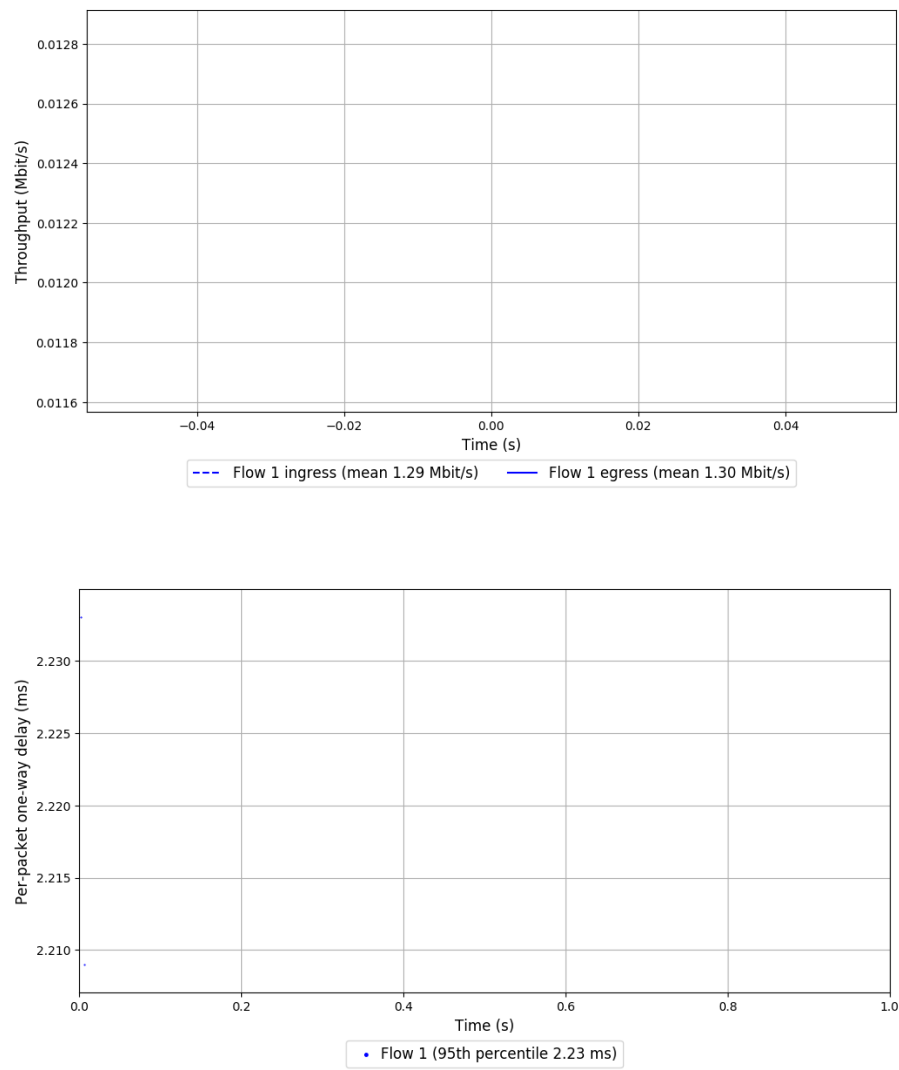
Start at: 2017-12-05 12:54:55

End at: 2017-12-05 12:55:25

Local clock offset: -0.19 ms

Remote clock offset: 0.052 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

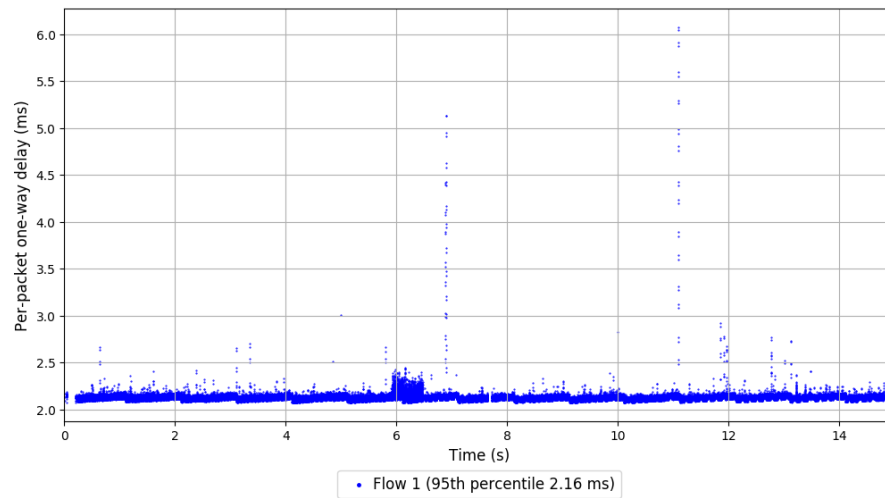
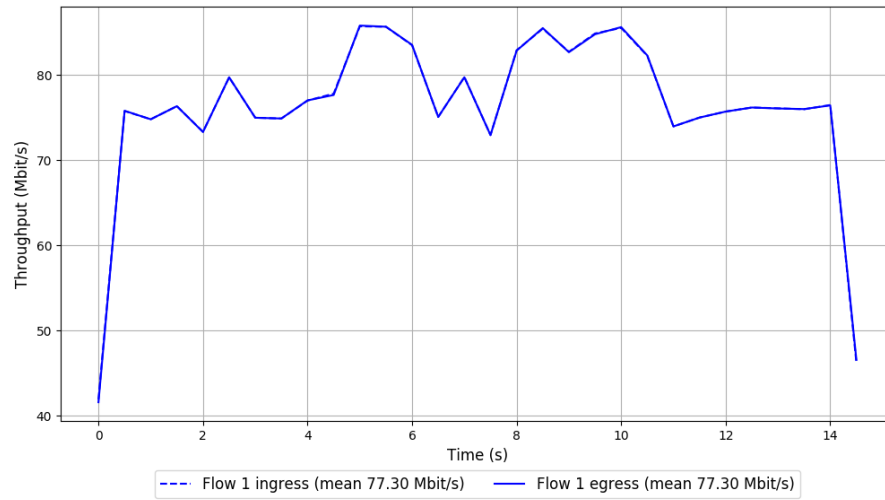
Start at: 2017-12-05 13:12:56

End at: 2017-12-05 13:13:26

Local clock offset: -0.182 ms

Remote clock offset: -0.116 ms

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

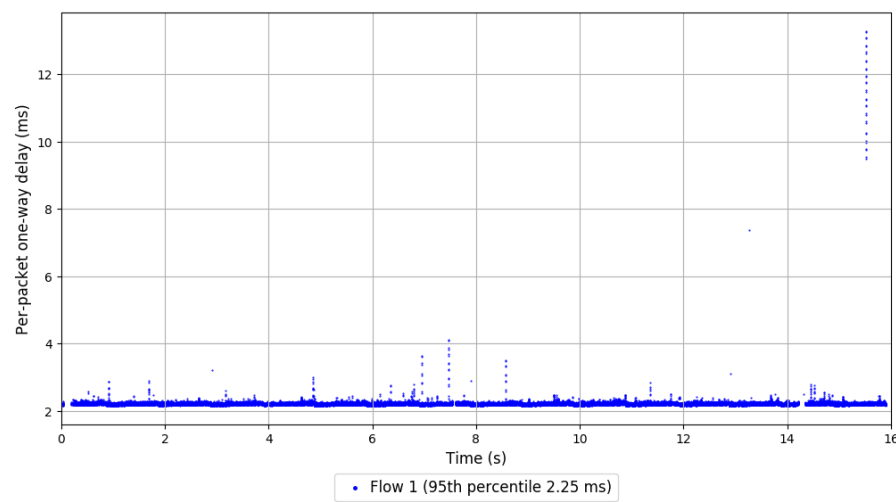
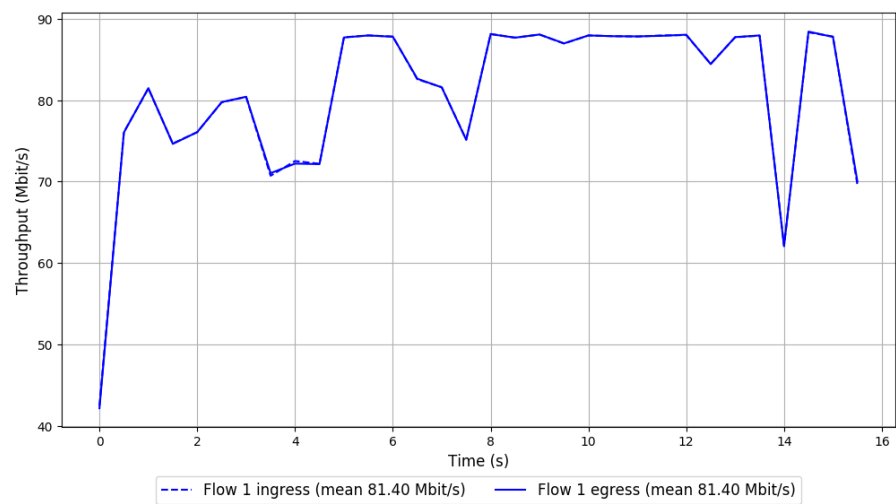
Start at: 2017-12-05 13:30:56

End at: 2017-12-05 13:31:26

Local clock offset: -0.194 ms

Remote clock offset: -0.137 ms

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-12-05 13:48:56

End at: 2017-12-05 13:49:26

Local clock offset: -0.22 ms

Remote clock offset: -0.14 ms

Below is generated by plot.py at 2017-12-05 18:23:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.06 Mbit/s

95th percentile per-packet one-way delay: 2.312 ms

Loss rate: 0.05%

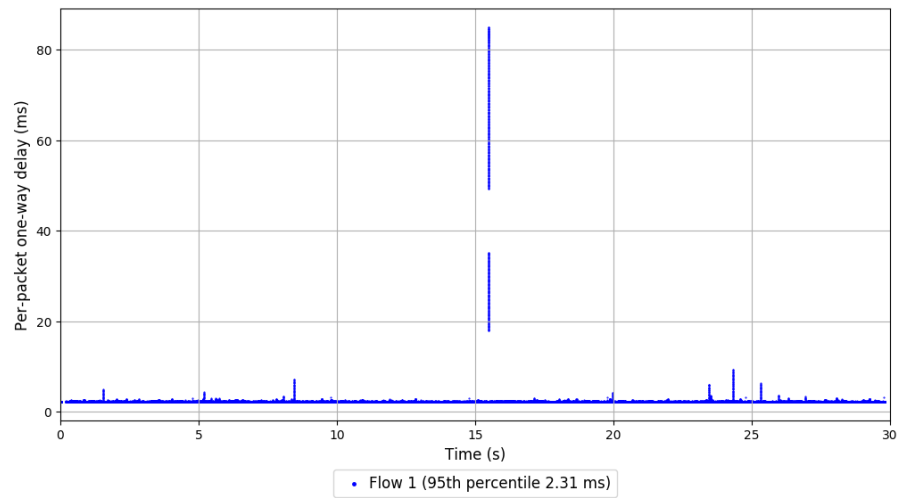
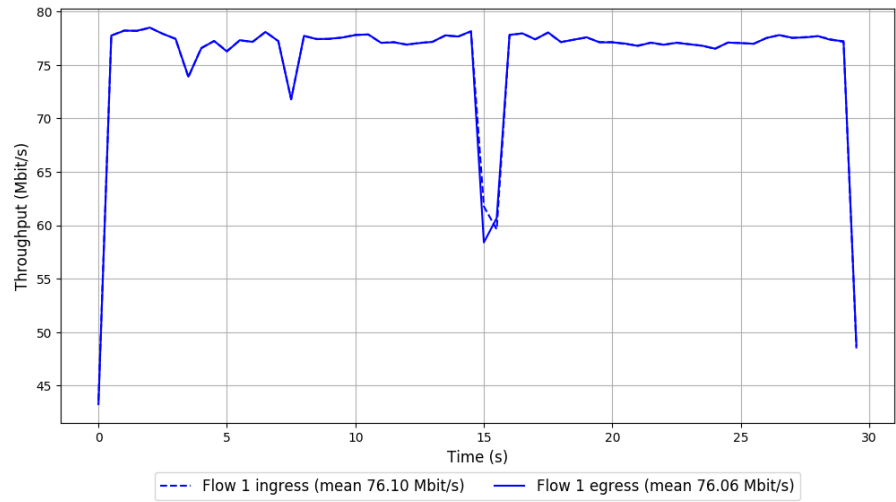
-- Flow 1:

Average throughput: 76.06 Mbit/s

95th percentile per-packet one-way delay: 2.312 ms

Loss rate: 0.05%

Run 4: Report of QUIC Cubic — Data Link

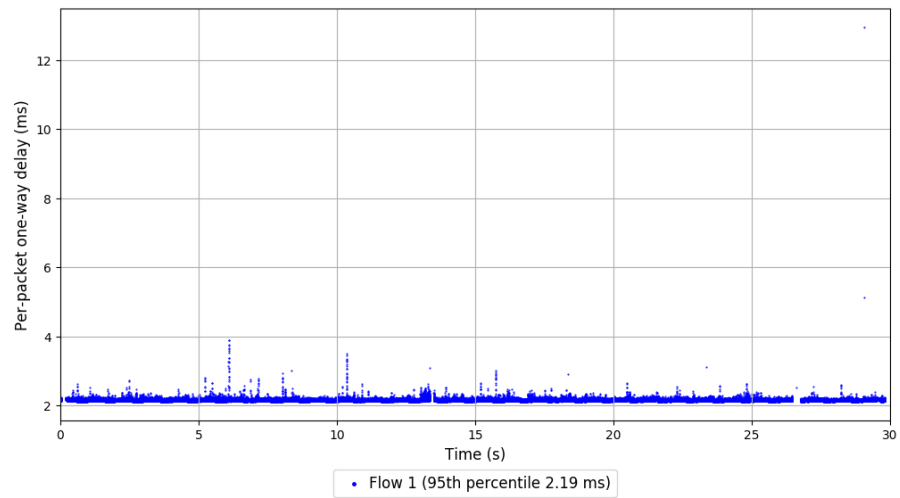
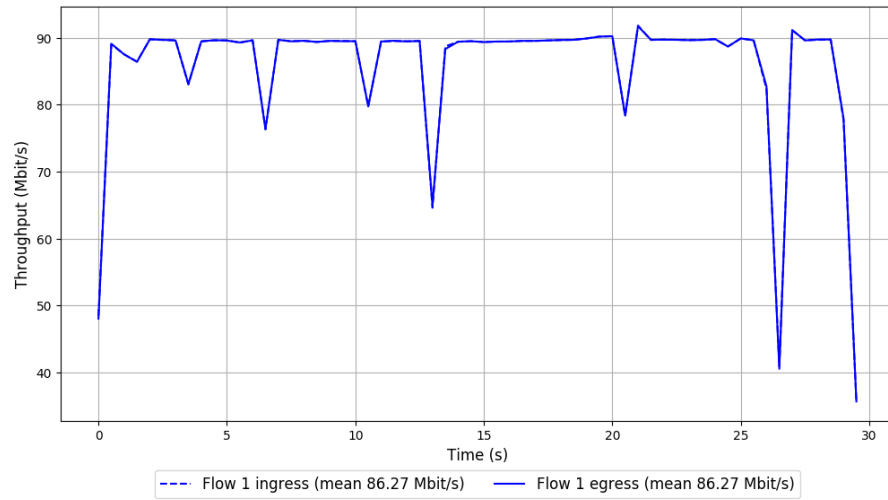


Run 5: Statistics of QUIC Cubic

Start at: 2017-12-05 14:07:00
End at: 2017-12-05 14:07:30
Local clock offset: -0.071 ms
Remote clock offset: -0.118 ms

Below is generated by plot.py at 2017-12-05 18:23:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.27 Mbit/s
95th percentile per-packet one-way delay: 2.190 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 86.27 Mbit/s
95th percentile per-packet one-way delay: 2.190 ms
Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-12-05 14:25:02

End at: 2017-12-05 14:25:32

Local clock offset: -0.012 ms

Remote clock offset: -0.108 ms

Below is generated by plot.py at 2017-12-05 18:23:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.91 Mbit/s

95th percentile per-packet one-way delay: 2.254 ms

Loss rate: 0.00%

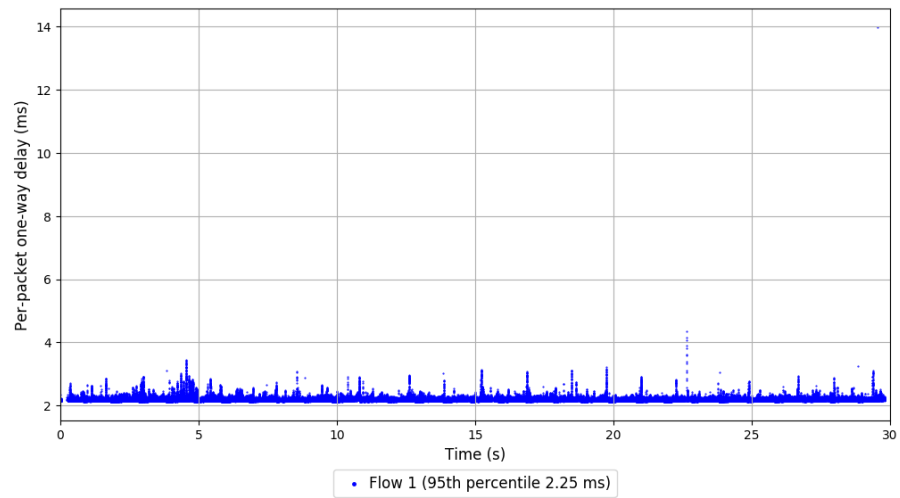
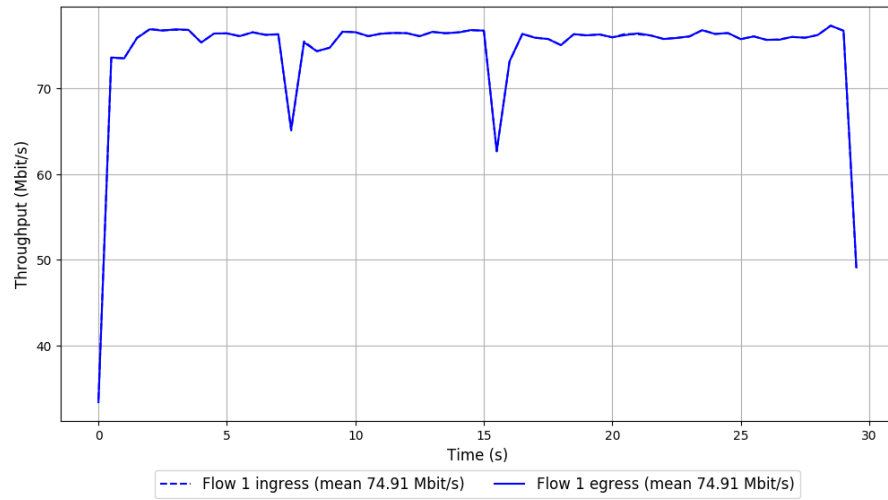
-- Flow 1:

Average throughput: 74.91 Mbit/s

95th percentile per-packet one-way delay: 2.254 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link

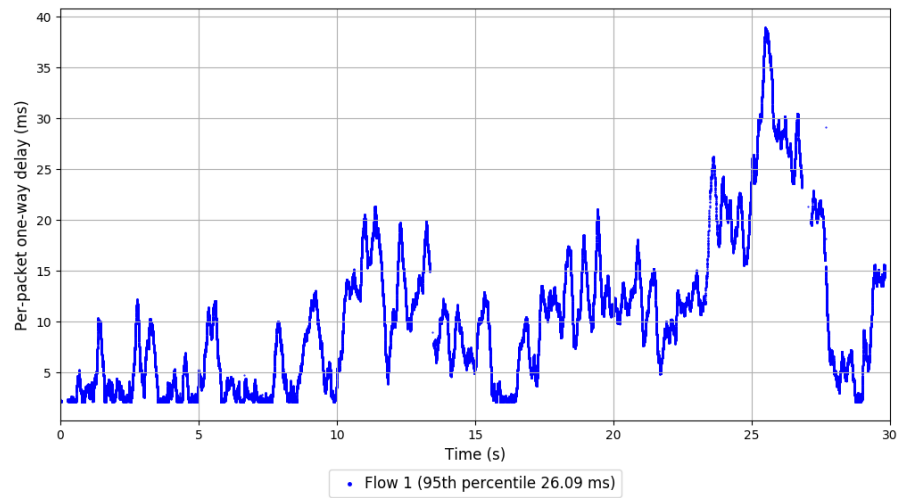
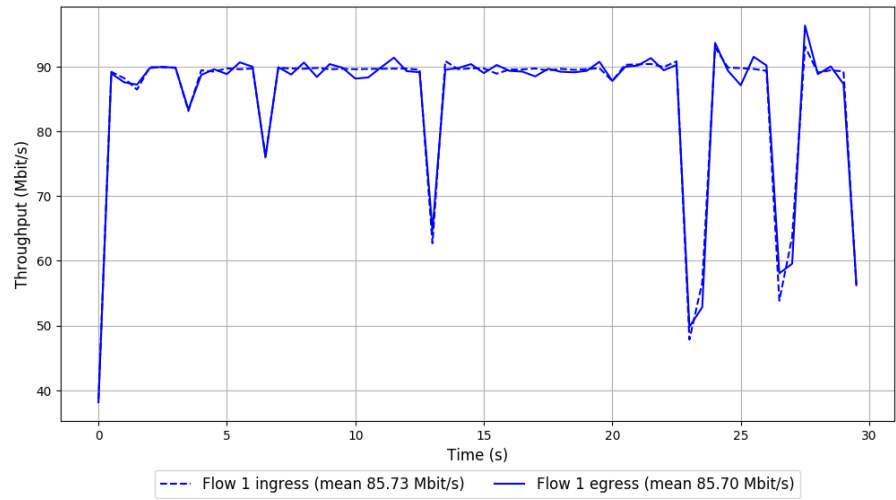


Run 7: Statistics of QUIC Cubic

Start at: 2017-12-05 14:43:01
End at: 2017-12-05 14:43:31
Local clock offset: 0.047 ms
Remote clock offset: -0.117 ms

Below is generated by plot.py at 2017-12-05 18:23:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 85.70 Mbit/s
95th percentile per-packet one-way delay: 26.090 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 85.70 Mbit/s
95th percentile per-packet one-way delay: 26.090 ms
Loss rate: 0.04%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-12-05 15:01:06

End at: 2017-12-05 15:01:36

Local clock offset: 0.177 ms

Remote clock offset: -0.116 ms

Below is generated by plot.py at 2017-12-05 18:23:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.35 Mbit/s

95th percentile per-packet one-way delay: 2.212 ms

Loss rate: 0.00%

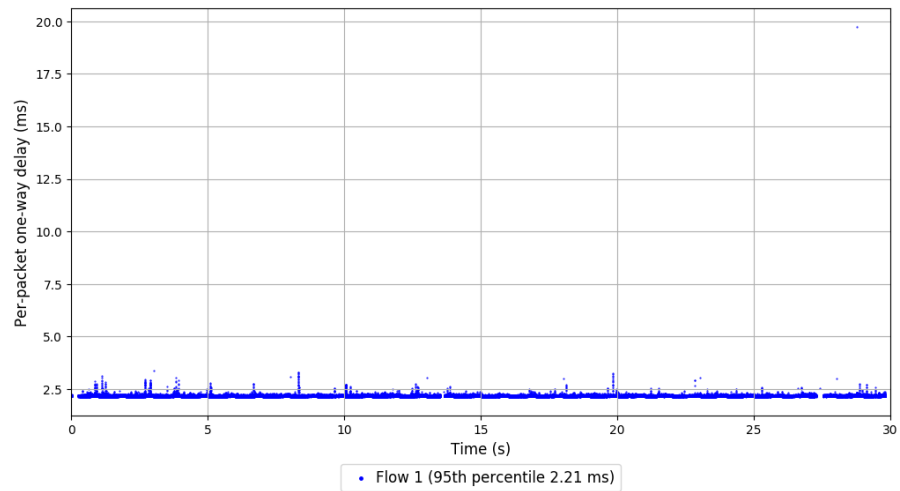
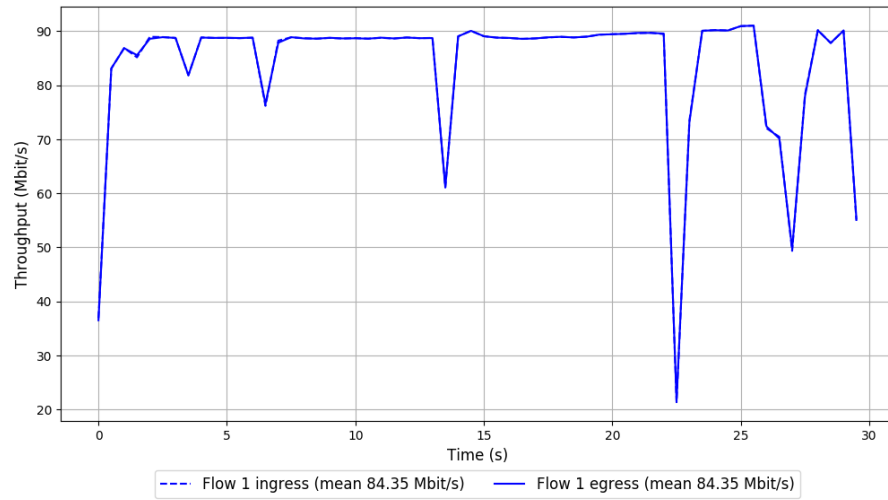
-- Flow 1:

Average throughput: 84.35 Mbit/s

95th percentile per-packet one-way delay: 2.212 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

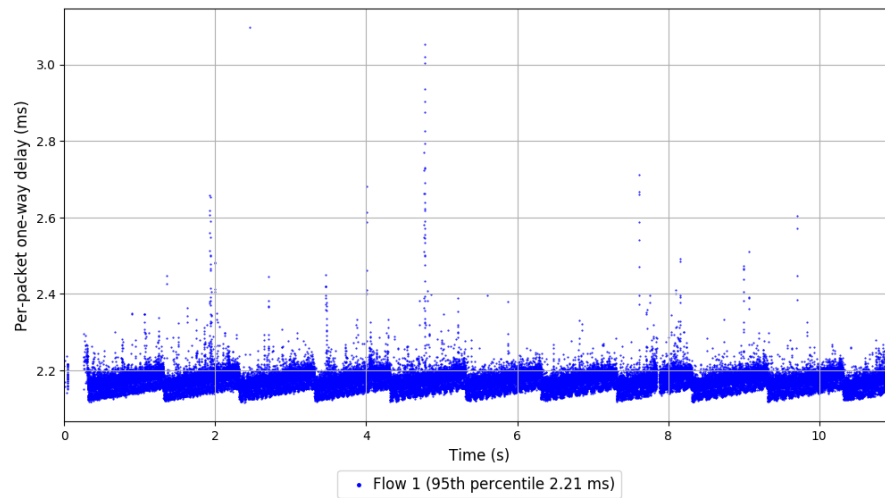
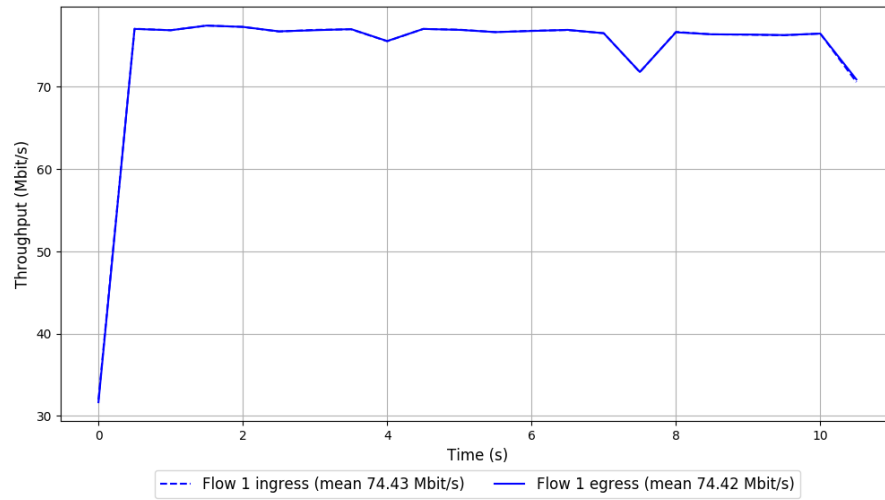
Start at: 2017-12-05 15:19:06

End at: 2017-12-05 15:19:36

Local clock offset: 0.276 ms

Remote clock offset: -0.127 ms

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-12-05 15:36:47

End at: 2017-12-05 15:37:17

Local clock offset: 0.19 ms

Remote clock offset: -0.13 ms

Below is generated by plot.py at 2017-12-05 18:23:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.86 Mbit/s

95th percentile per-packet one-way delay: 2.258 ms

Loss rate: 0.00%

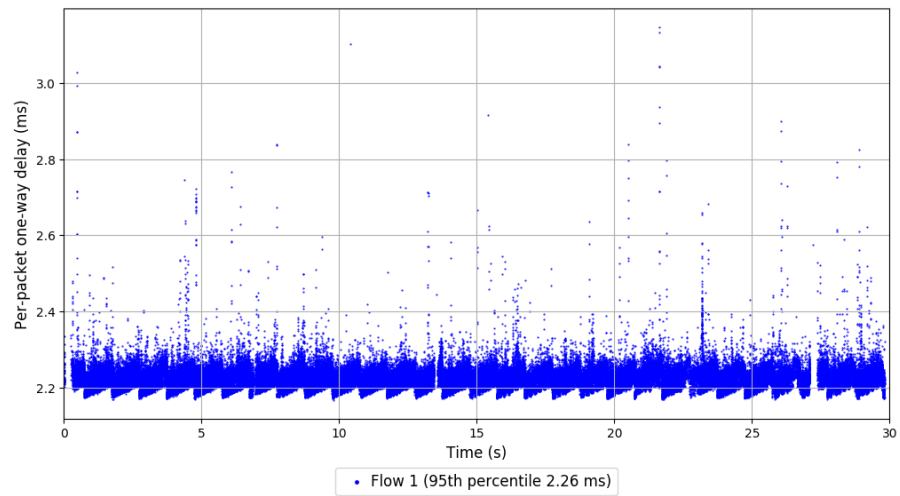
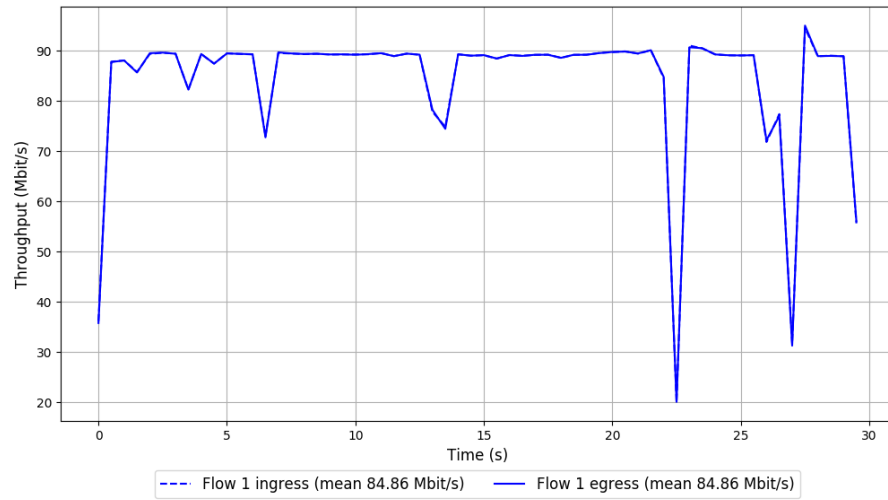
-- Flow 1:

Average throughput: 84.86 Mbit/s

95th percentile per-packet one-way delay: 2.258 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

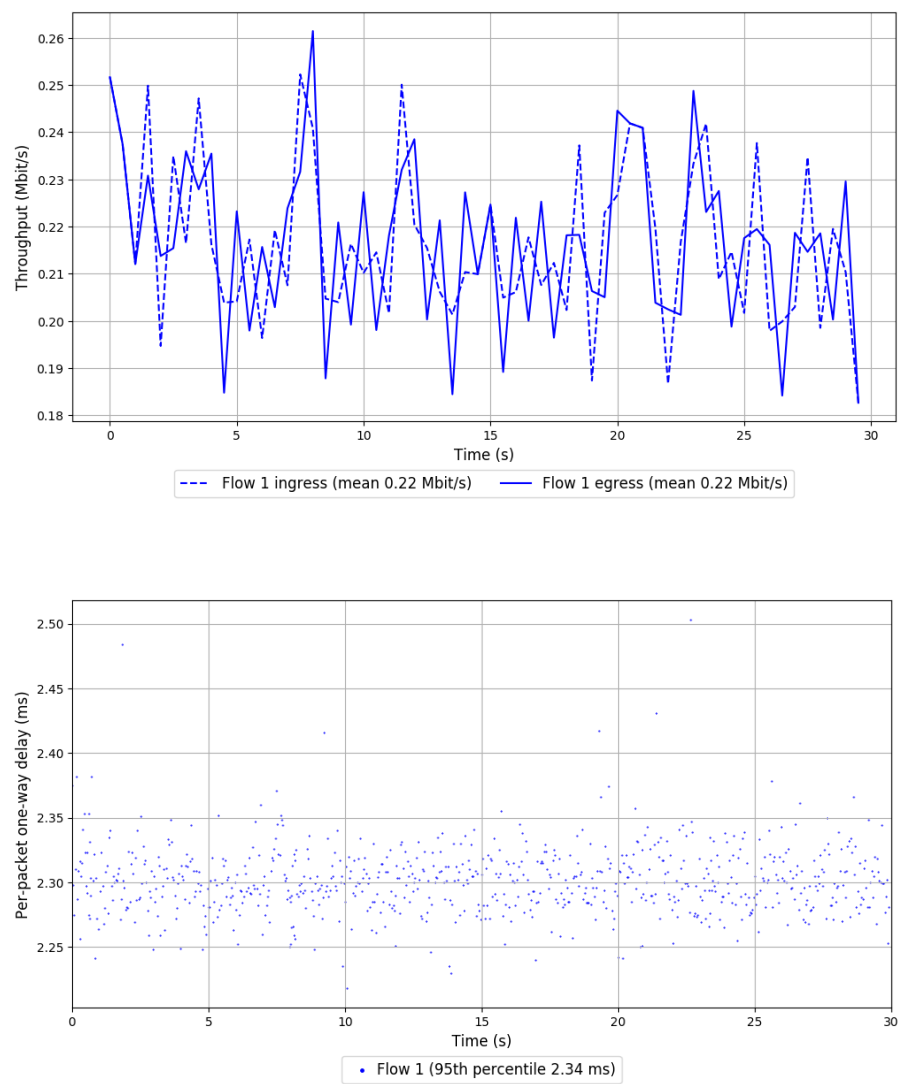


```
Run 1: Statistics of SCReAM

Start at: 2017-12-05 12:57:12
End at: 2017-12-05 12:57:42
Local clock offset: -0.242 ms
Remote clock offset: 0.036 ms

# Below is generated by plot.py at 2017-12-05 18:23:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.341 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.341 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

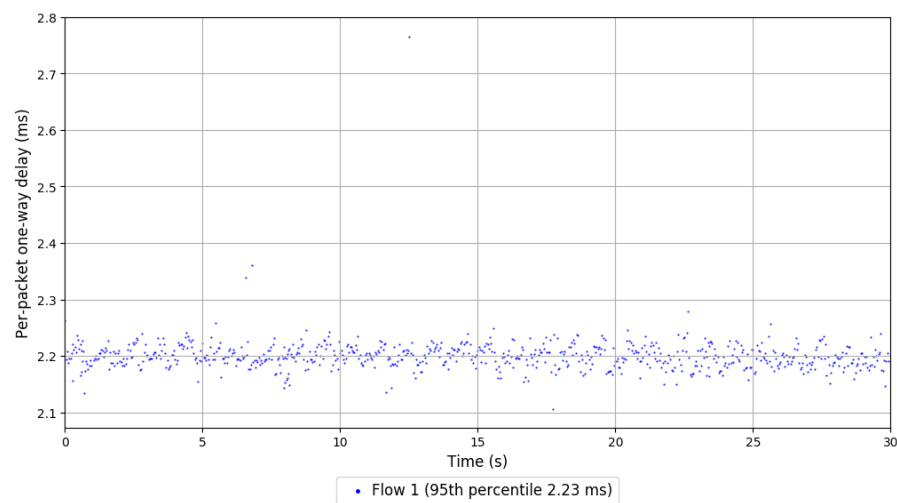
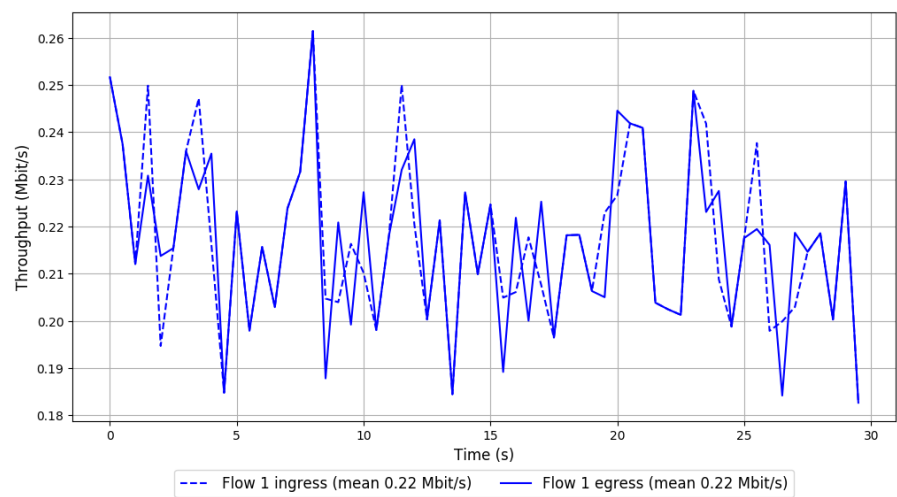


Run 2: Statistics of SCReAM

Start at: 2017-12-05 13:15:16
End at: 2017-12-05 13:15:46
Local clock offset: -0.184 ms
Remote clock offset: -0.126 ms

Below is generated by plot.py at 2017-12-05 18:23:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.232 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.232 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

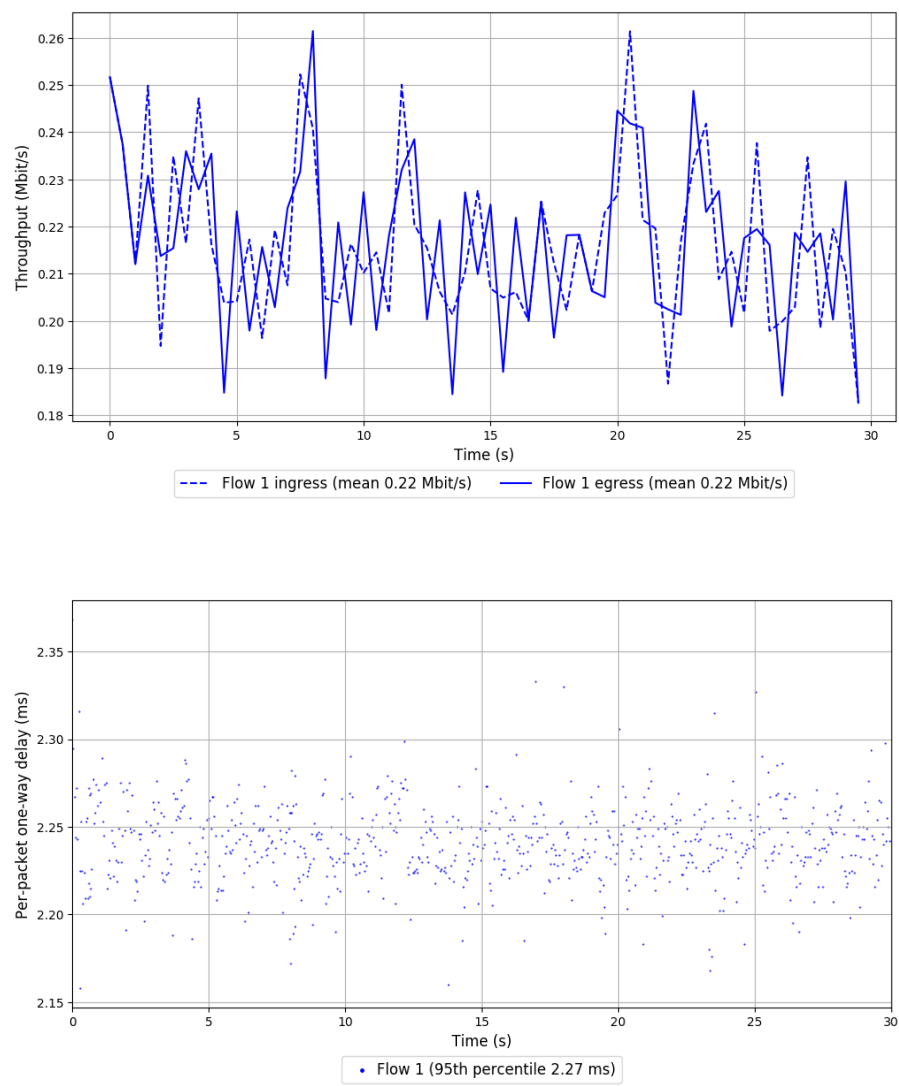


Run 3: Statistics of SCReAM

Start at: 2017-12-05 13:33:16
End at: 2017-12-05 13:33:46
Local clock offset: -0.209 ms
Remote clock offset: -0.195 ms

Below is generated by plot.py at 2017-12-05 18:23:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.275 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.275 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

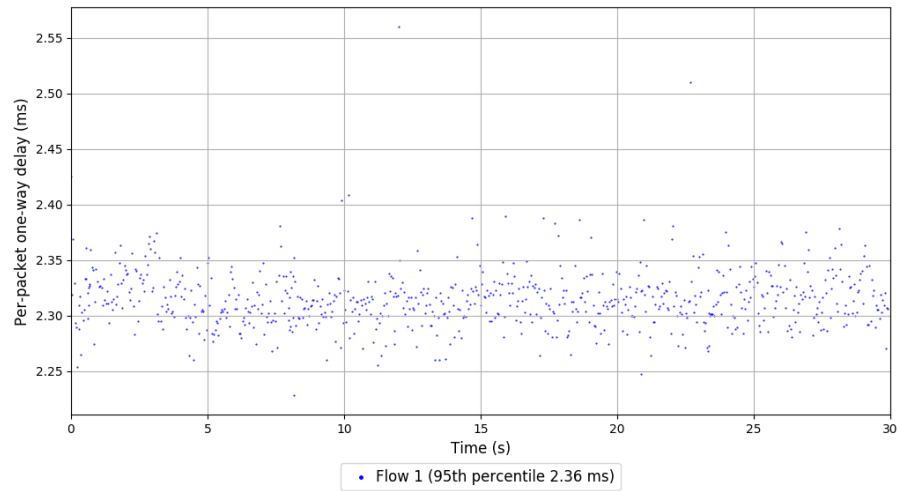
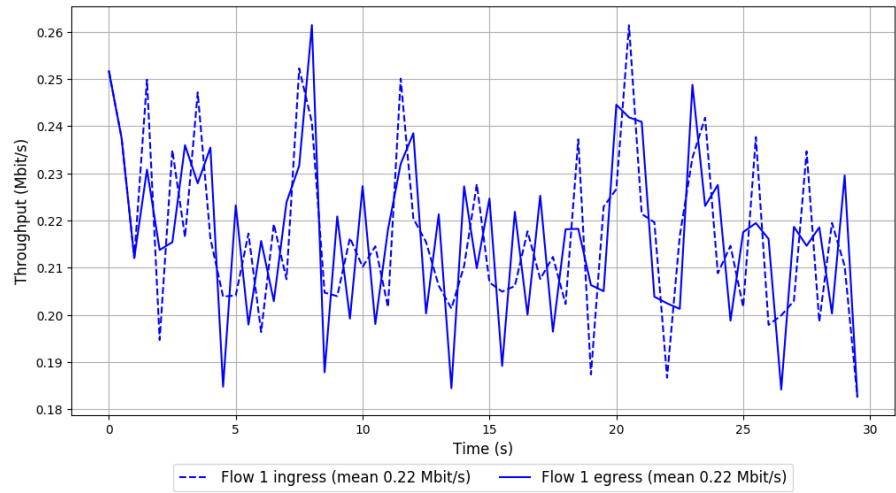


Run 4: Statistics of SCReAM

Start at: 2017-12-05 13:51:17
End at: 2017-12-05 13:51:47
Local clock offset: -0.202 ms
Remote clock offset: -0.149 ms

Below is generated by plot.py at 2017-12-05 18:23:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.357 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.357 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-12-05 14:09:21

End at: 2017-12-05 14:09:51

Local clock offset: -0.069 ms

Remote clock offset: -0.19 ms

Below is generated by plot.py at 2017-12-05 18:23:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.198 ms

Loss rate: 0.00%

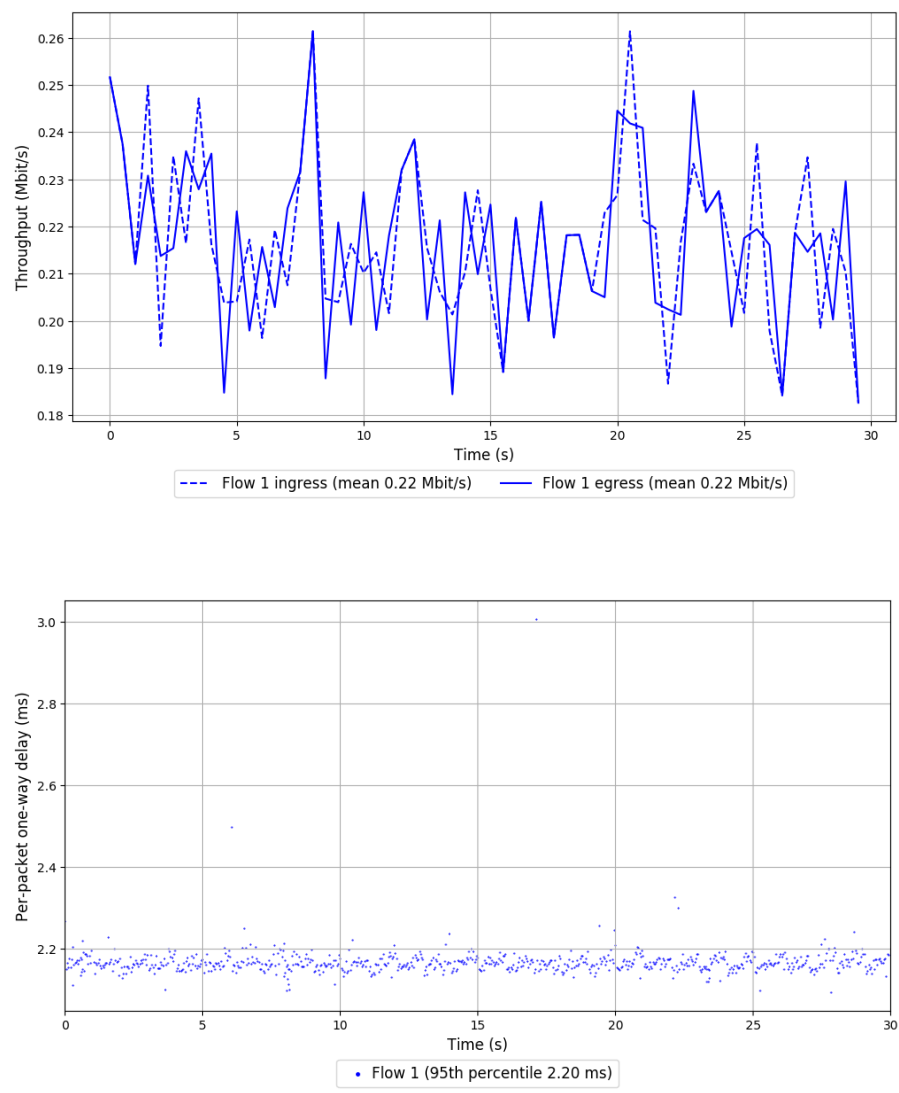
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.198 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-12-05 14:27:23

End at: 2017-12-05 14:27:53

Local clock offset: -0.005 ms

Remote clock offset: -0.11 ms

Below is generated by plot.py at 2017-12-05 18:23:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.279 ms

Loss rate: 0.00%

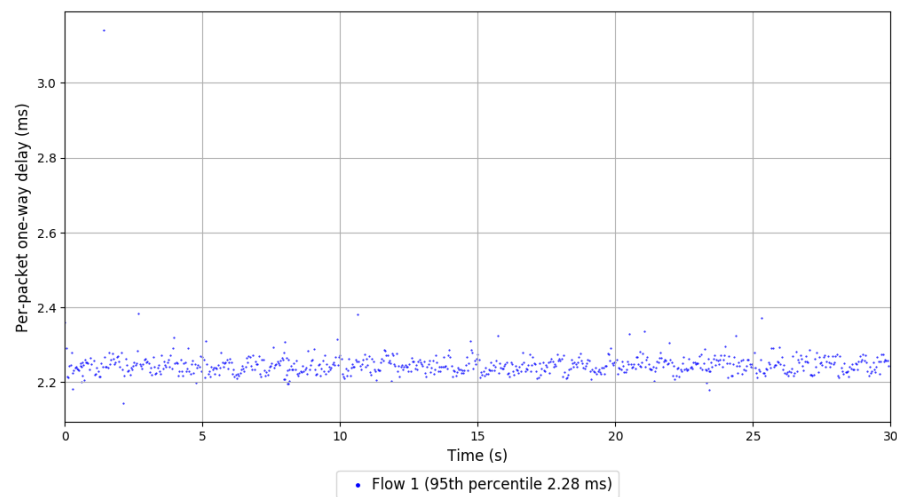
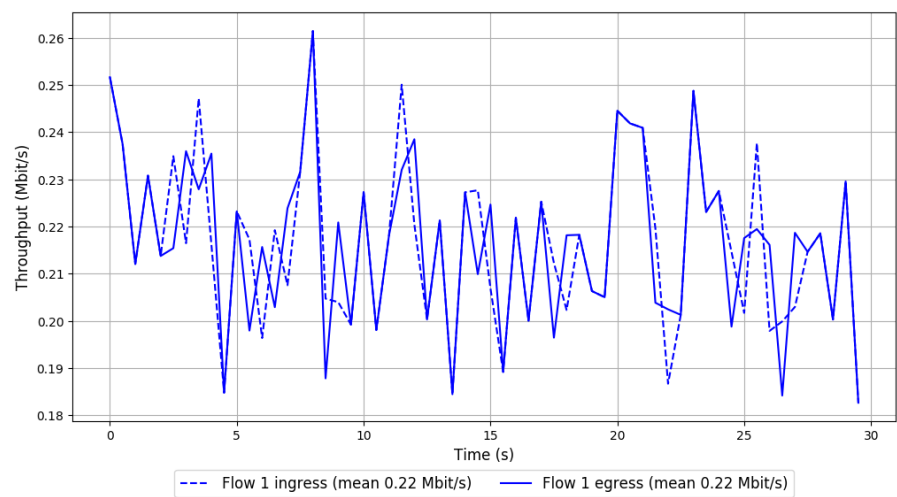
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.279 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

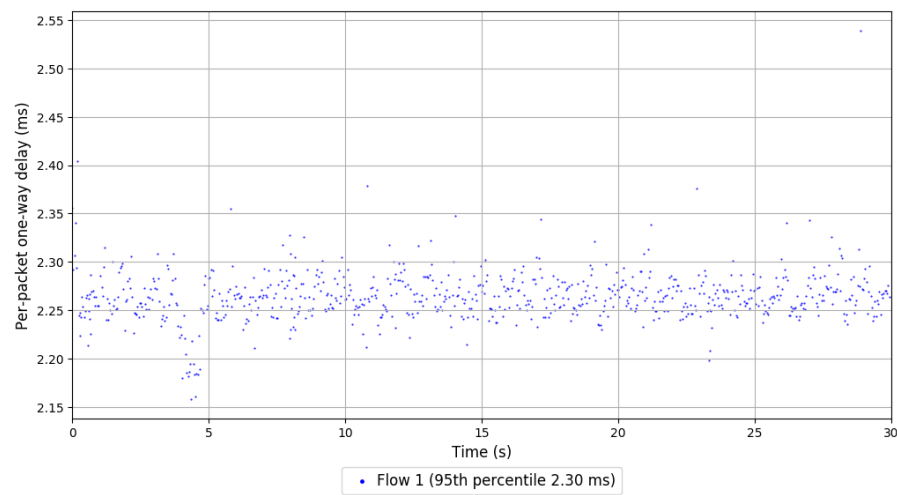
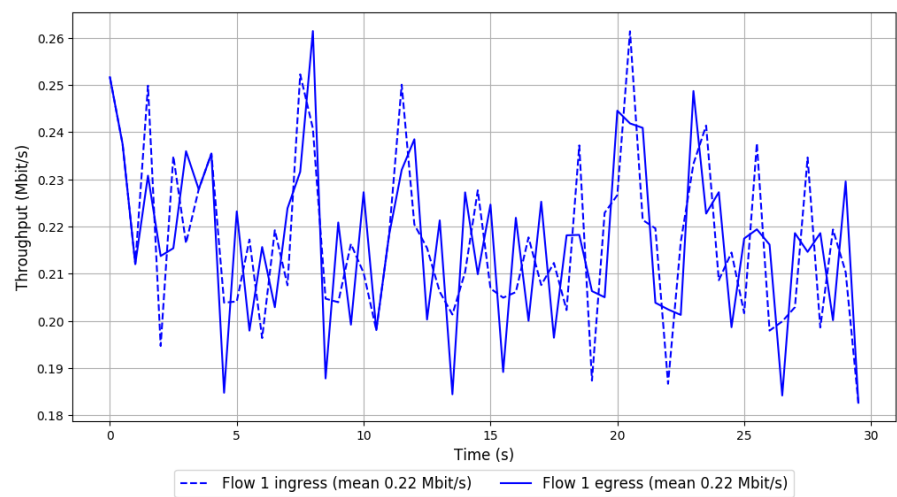


Run 7: Statistics of SCReAM

Start at: 2017-12-05 14:45:22
End at: 2017-12-05 14:45:53
Local clock offset: 0.073 ms
Remote clock offset: -0.094 ms

Below is generated by plot.py at 2017-12-05 18:23:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.301 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.301 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

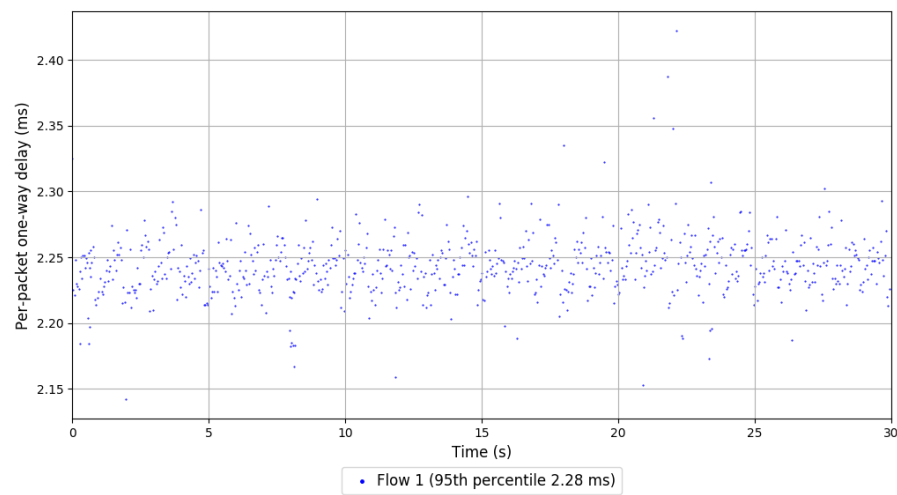
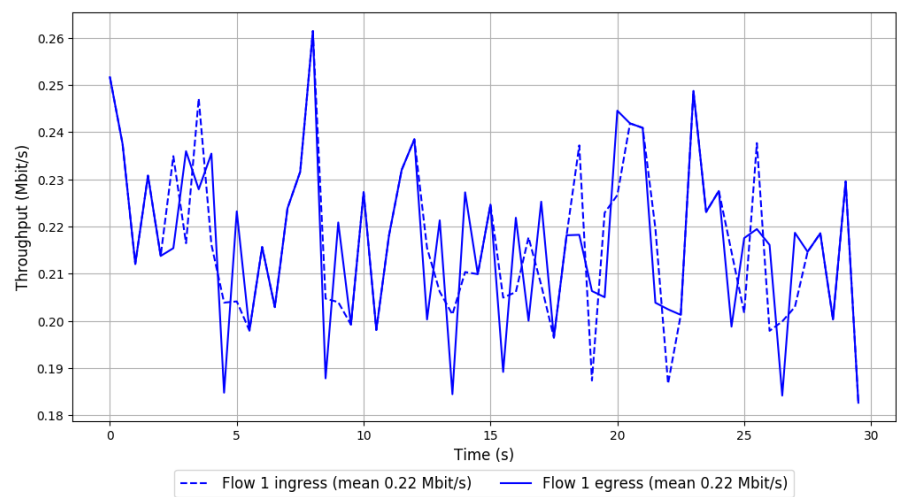


Run 8: Statistics of SReAM

Start at: 2017-12-05 15:03:27
End at: 2017-12-05 15:03:57
Local clock offset: 0.152 ms
Remote clock offset: -0.173 ms

Below is generated by plot.py at 2017-12-05 18:23:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.279 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.279 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

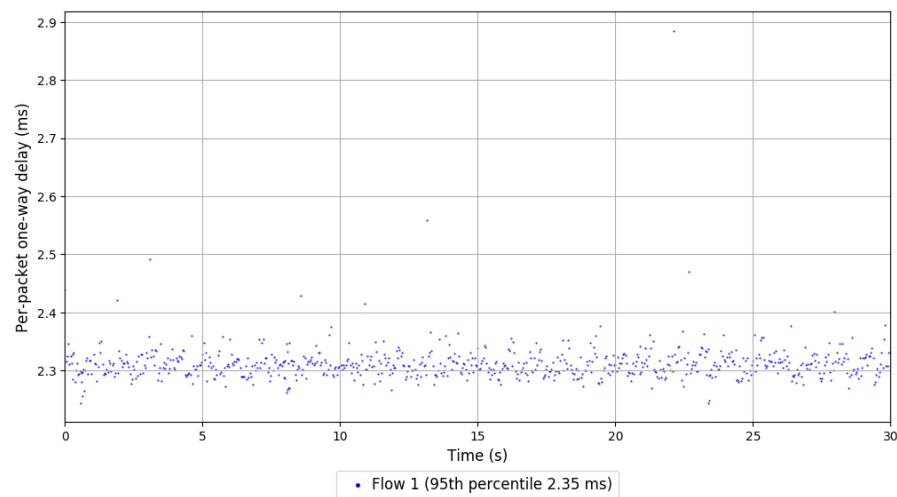
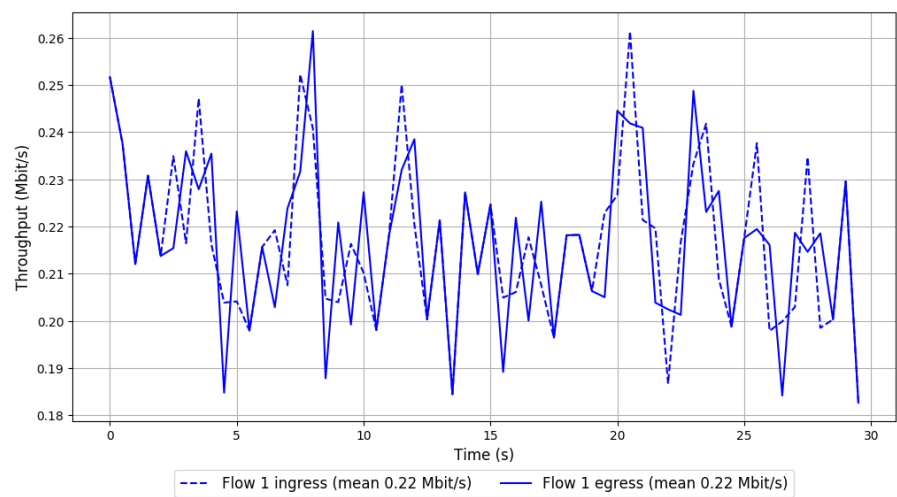


Run 9: Statistics of SCReAM

Start at: 2017-12-05 15:21:25
End at: 2017-12-05 15:21:55
Local clock offset: 0.197 ms
Remote clock offset: -0.127 ms

Below is generated by plot.py at 2017-12-05 18:23:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.351 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.351 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

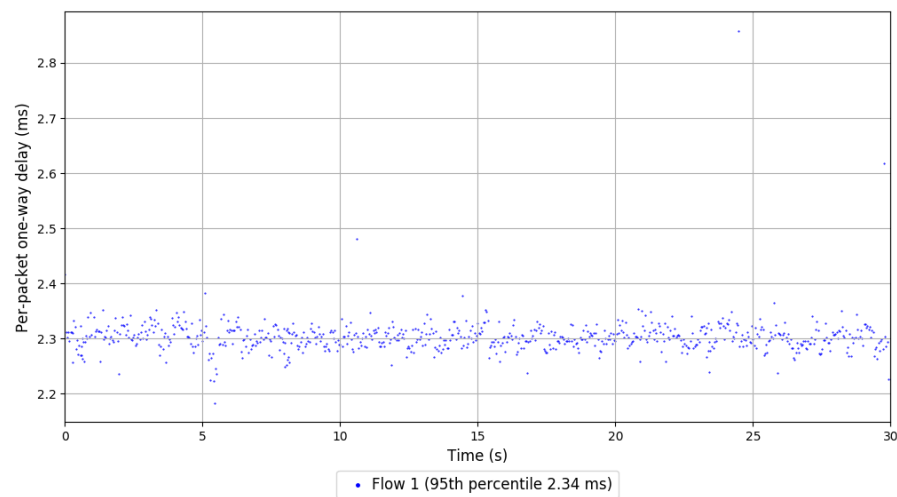
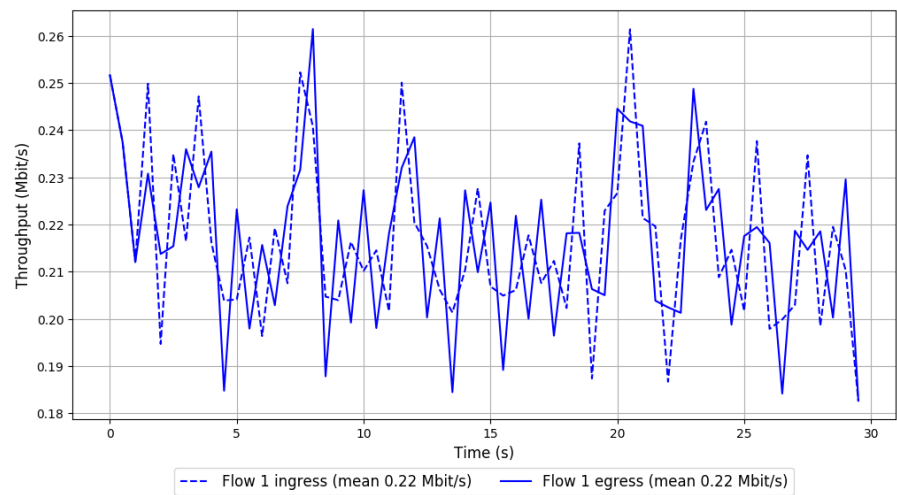


Run 10: Statistics of SCReAM

Start at: 2017-12-05 15:39:29
End at: 2017-12-05 15:39:59
Local clock offset: 0.179 ms
Remote clock offset: -0.131 ms

Below is generated by plot.py at 2017-12-05 18:23:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.336 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.336 ms
Loss rate: 0.00%

Run 10: Report of SCRaM — Data Link

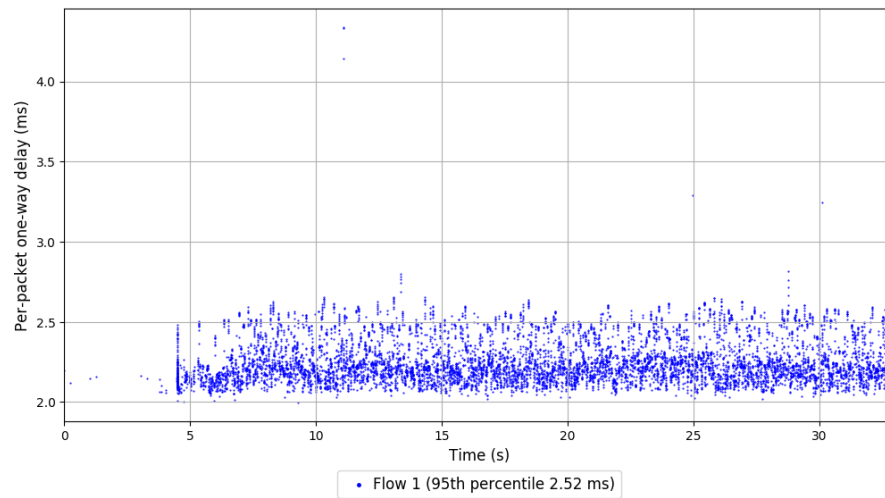
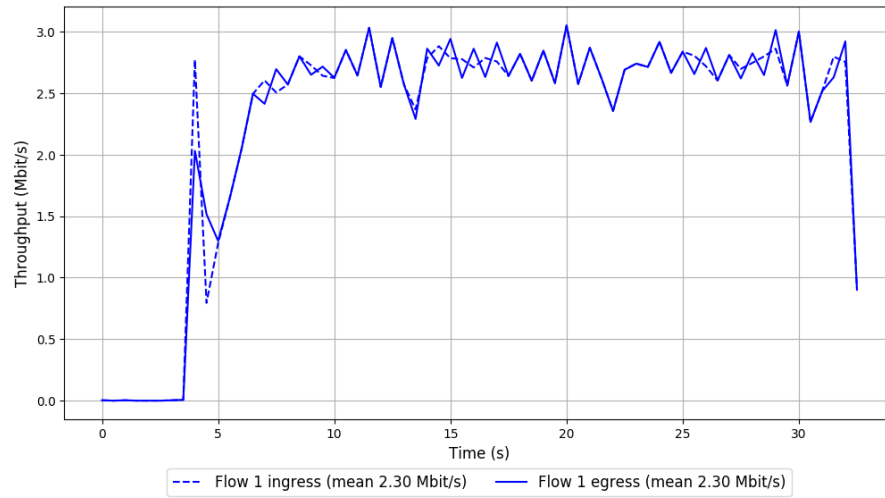


```
Run 1: Statistics of WebRTC media

Start at: 2017-12-05 12:58:16
End at: 2017-12-05 12:58:46
Local clock offset: -0.17 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2017-12-05 18:23:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 2.523 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 2.523 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

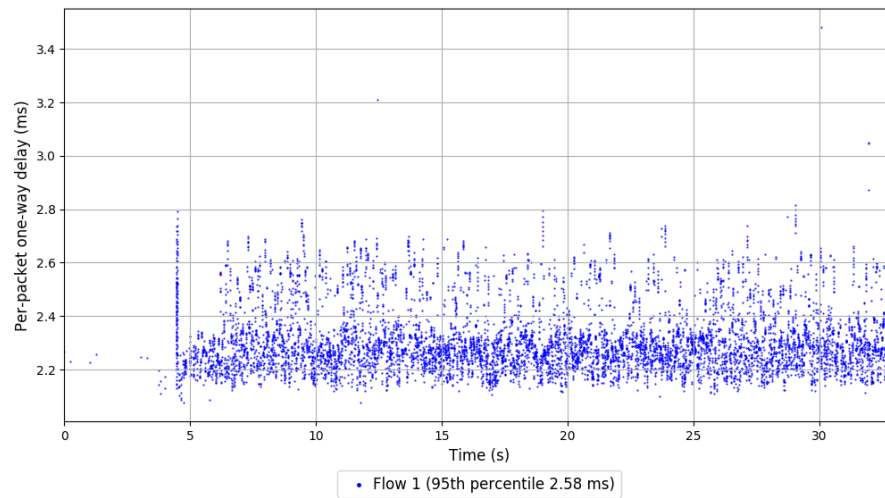
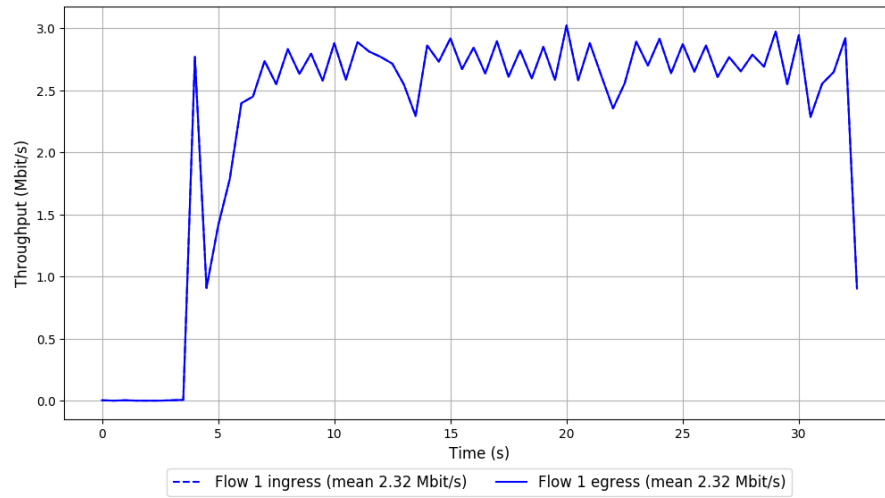


Run 2: Statistics of WebRTC media

Start at: 2017-12-05 13:16:19
End at: 2017-12-05 13:16:49
Local clock offset: -0.16 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2017-12-05 18:23:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 2.579 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 2.579 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

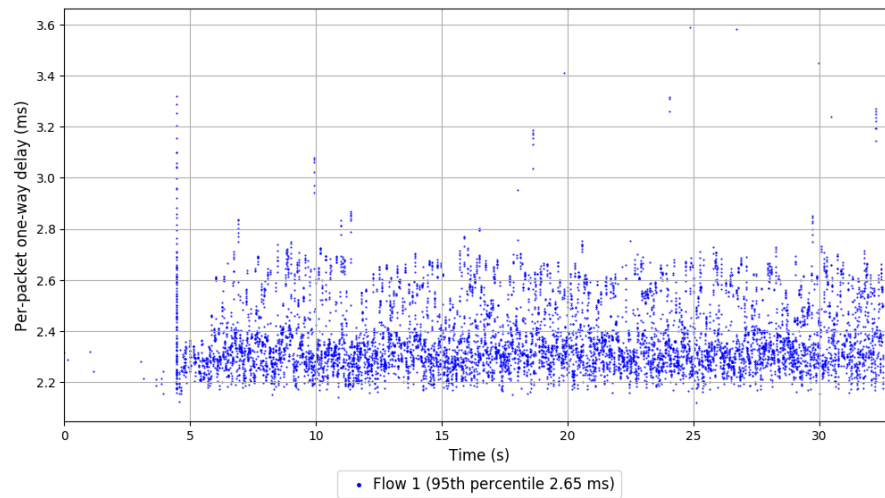
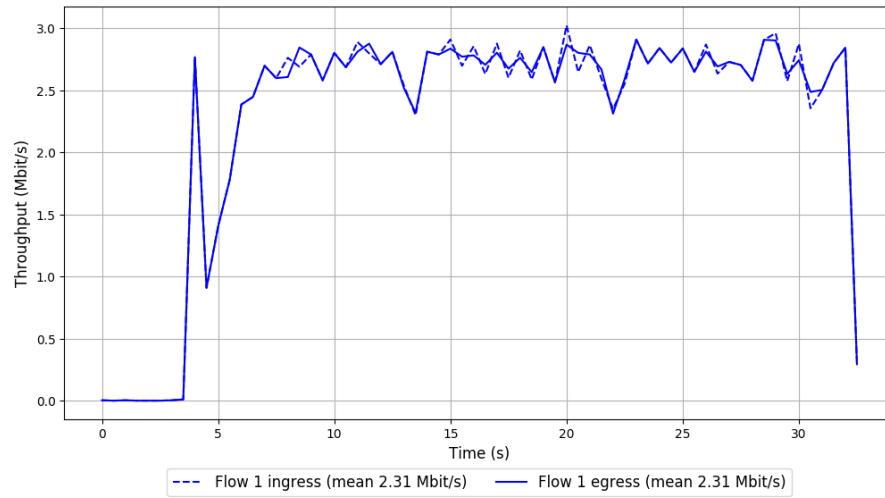


Run 3: Statistics of WebRTC media

Start at: 2017-12-05 13:34:20
End at: 2017-12-05 13:34:50
Local clock offset: -0.211 ms
Remote clock offset: -0.187 ms

Below is generated by plot.py at 2017-12-05 18:23:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 2.648 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 2.648 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

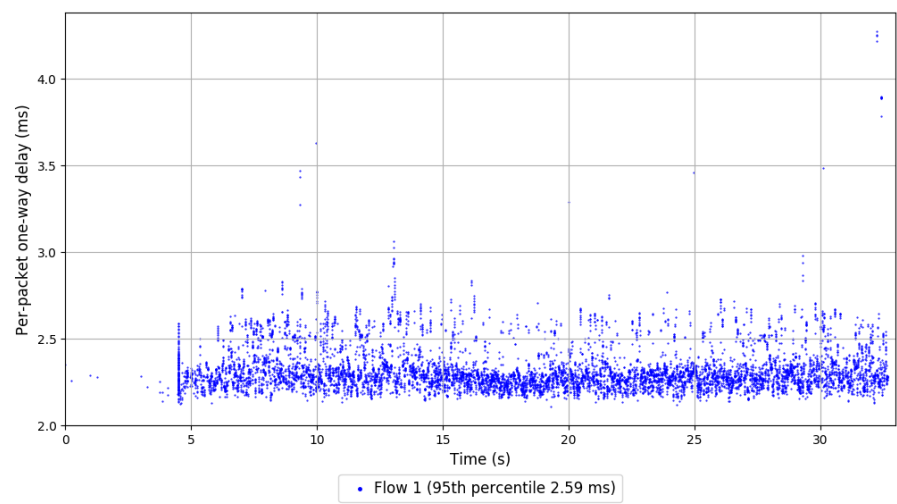
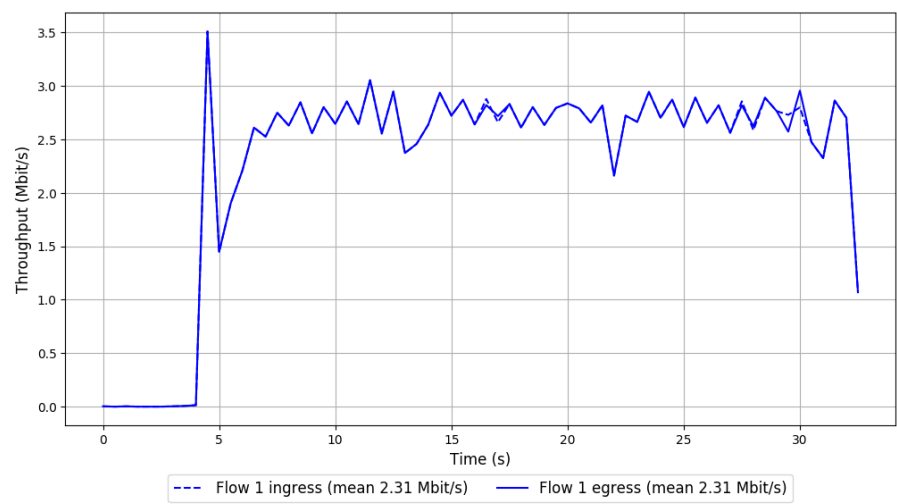


Run 4: Statistics of WebRTC media

Start at: 2017-12-05 13:52:21
End at: 2017-12-05 13:52:51
Local clock offset: -0.144 ms
Remote clock offset: -0.162 ms

Below is generated by plot.py at 2017-12-05 18:23:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 2.592 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 2.592 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

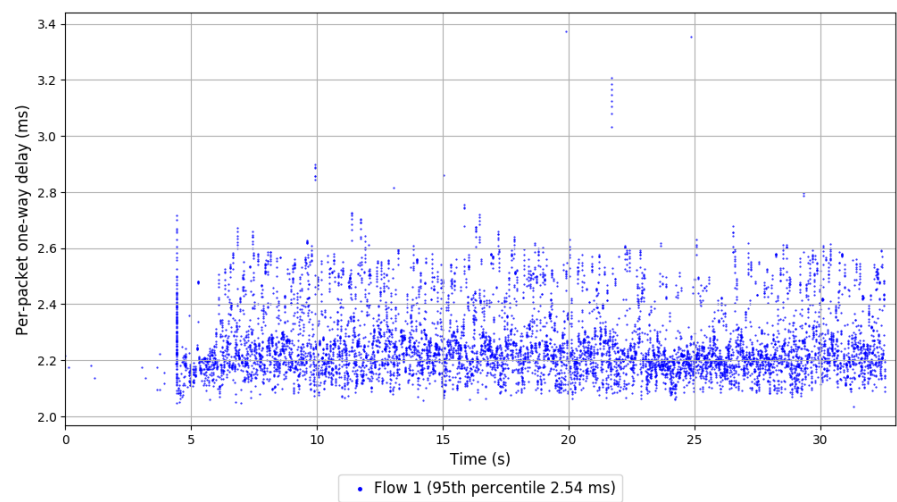
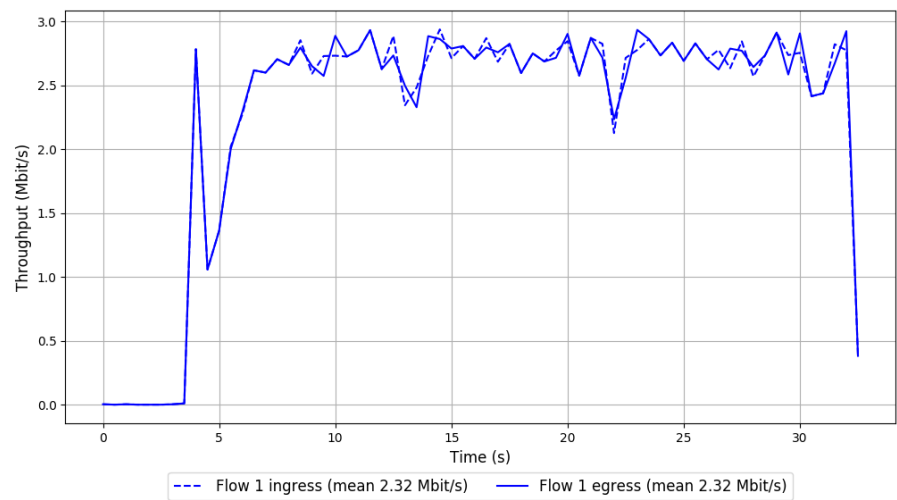


Run 5: Statistics of WebRTC media

Start at: 2017-12-05 14:10:25
End at: 2017-12-05 14:10:55
Local clock offset: -0.06 ms
Remote clock offset: -0.178 ms

Below is generated by plot.py at 2017-12-05 18:23:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 2.540 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 2.540 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

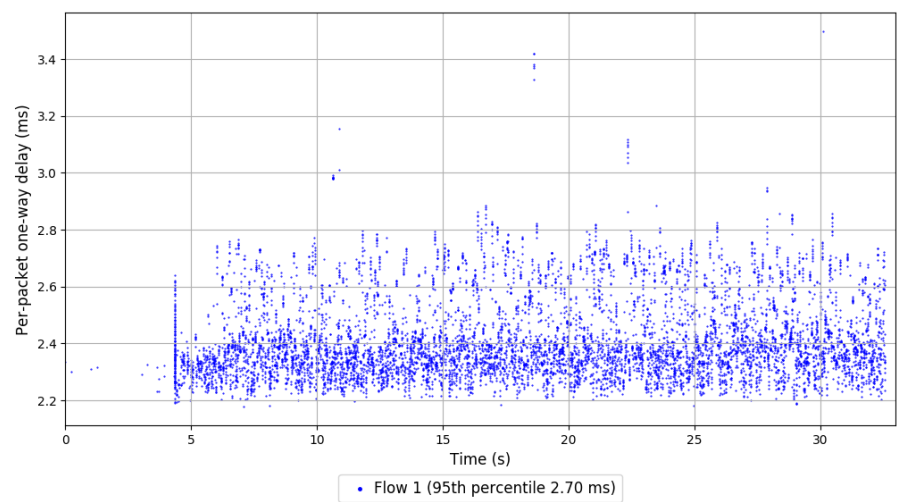
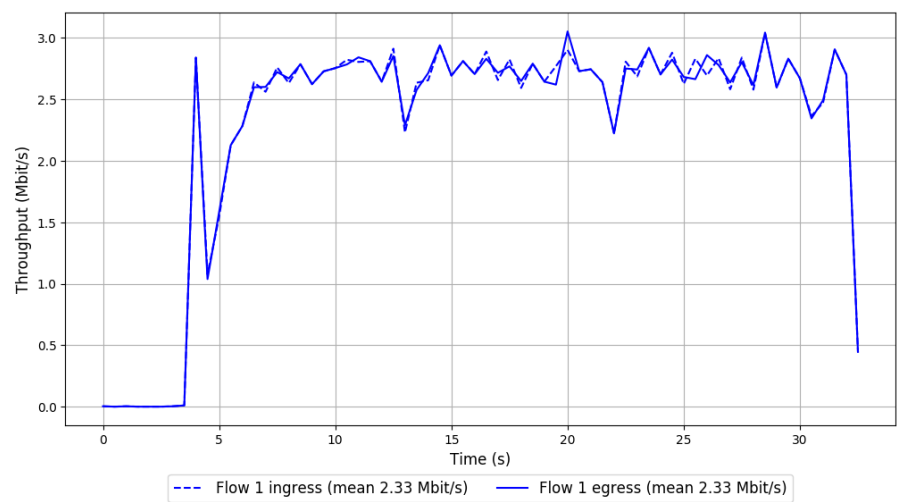


Run 6: Statistics of WebRTC media

Start at: 2017-12-05 14:28:26
End at: 2017-12-05 14:28:56
Local clock offset: -0.069 ms
Remote clock offset: -0.111 ms

Below is generated by plot.py at 2017-12-05 18:23:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 2.699 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 2.699 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

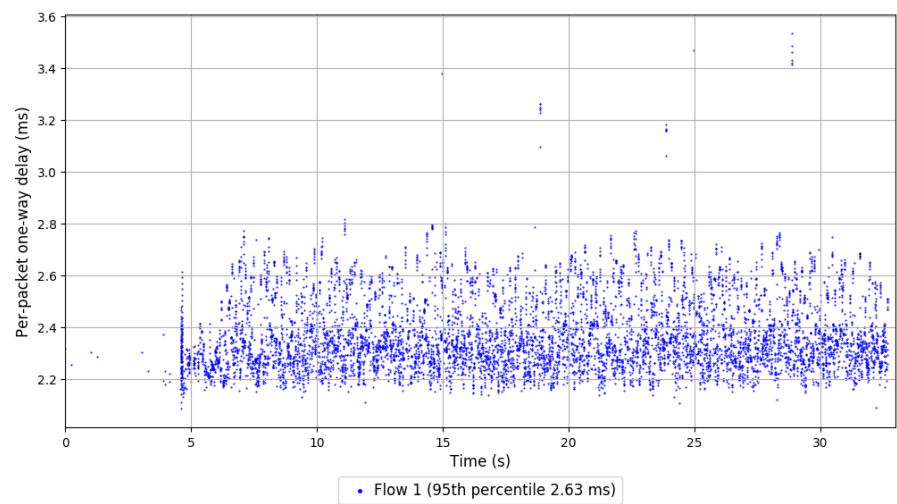
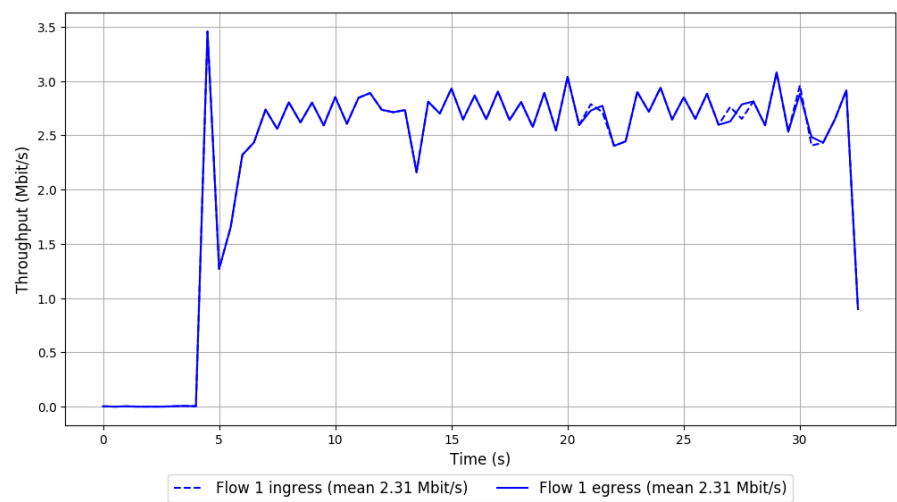


Run 7: Statistics of WebRTC media

Start at: 2017-12-05 14:46:26
End at: 2017-12-05 14:46:56
Local clock offset: 0.017 ms
Remote clock offset: -0.168 ms

Below is generated by plot.py at 2017-12-05 18:23:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 2.633 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 2.633 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-12-05 15:04:31

End at: 2017-12-05 15:05:01

Local clock offset: 0.219 ms

Remote clock offset: -0.11 ms

Below is generated by plot.py at 2017-12-05 18:23:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 2.591 ms

Loss rate: 0.00%

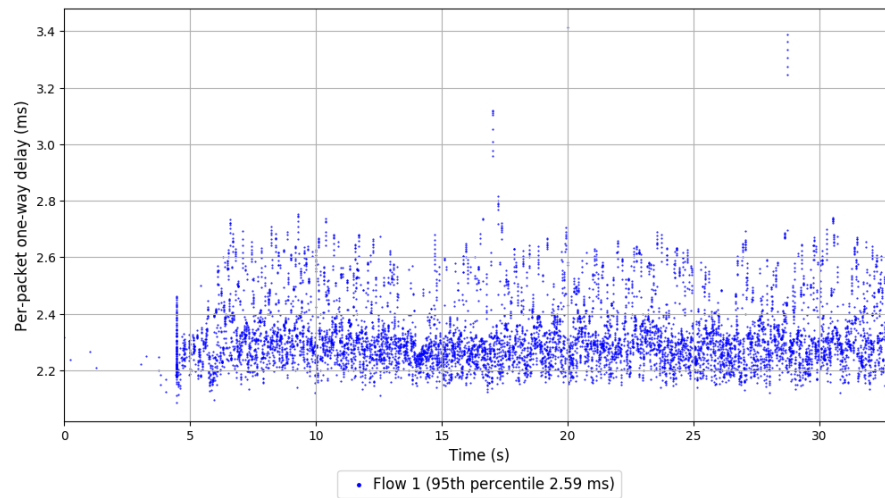
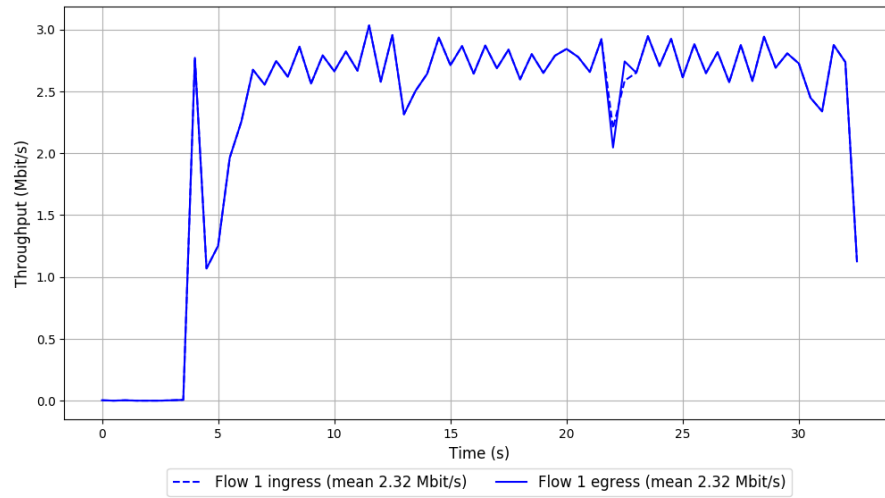
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 2.591 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

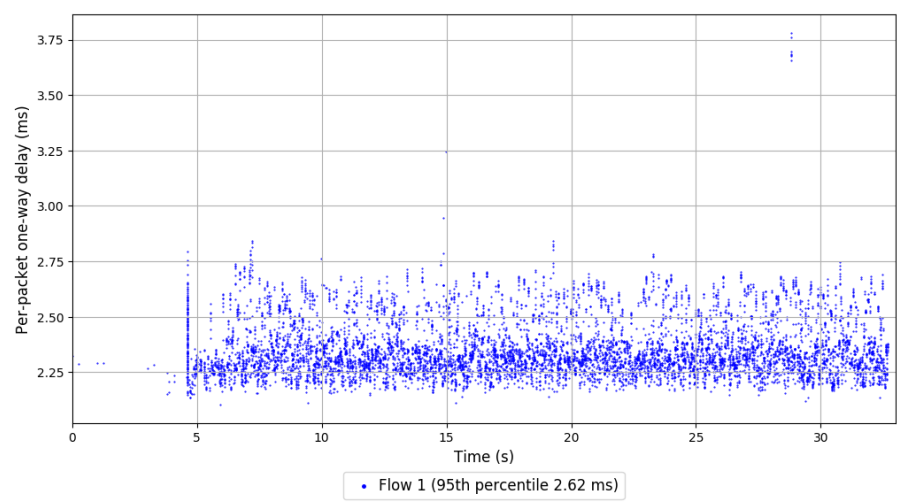
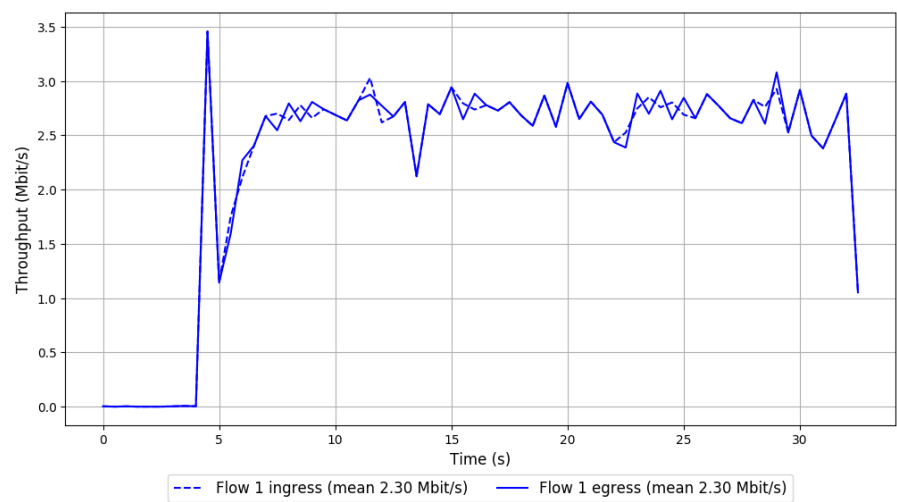


Run 9: Statistics of WebRTC media

Start at: 2017-12-05 15:22:28
End at: 2017-12-05 15:22:58
Local clock offset: 0.249 ms
Remote clock offset: -0.121 ms

Below is generated by plot.py at 2017-12-05 18:23:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 2.615 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 2.615 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-12-05 15:40:32

End at: 2017-12-05 15:41:02

Local clock offset: 0.236 ms

Remote clock offset: -0.193 ms

Below is generated by plot.py at 2017-12-05 18:23:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 2.562 ms

Loss rate: 0.00%

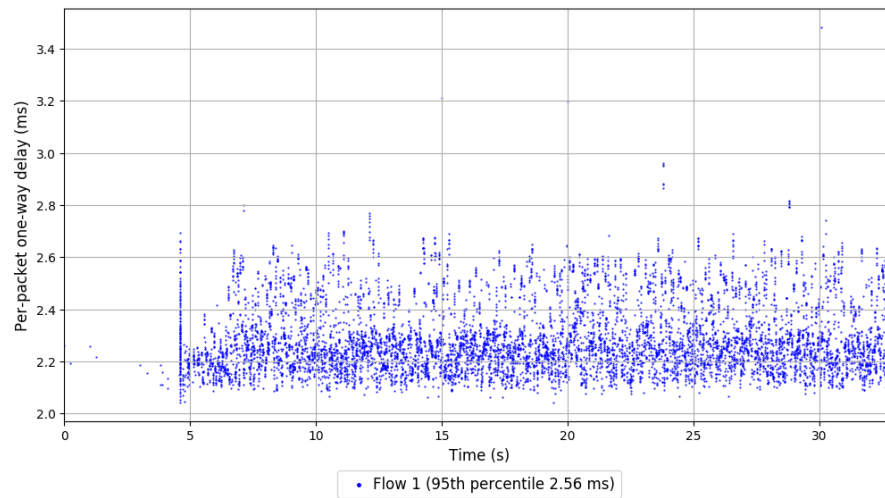
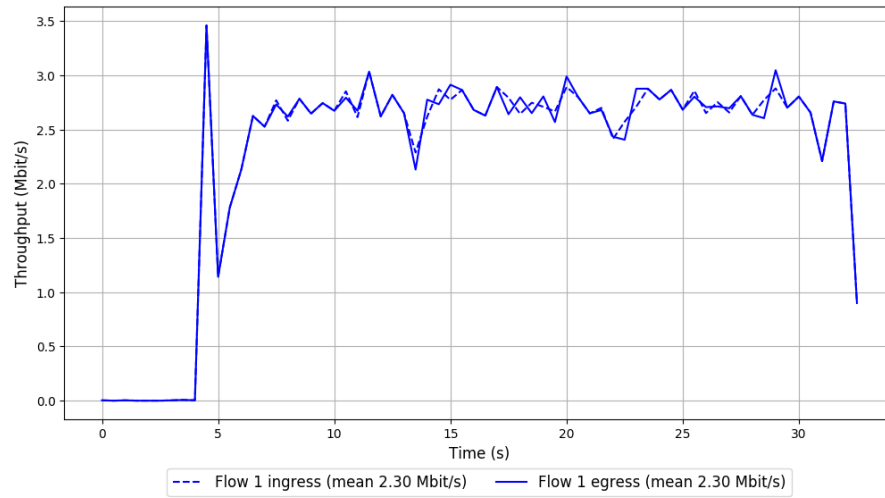
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 2.562 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-12-05 13:04:56

End at: 2017-12-05 13:05:26

Local clock offset: -0.163 ms

Remote clock offset: -0.03 ms

Below is generated by plot.py at 2017-12-05 18:23:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.21 Mbit/s

95th percentile per-packet one-way delay: 3.020 ms

Loss rate: 0.00%

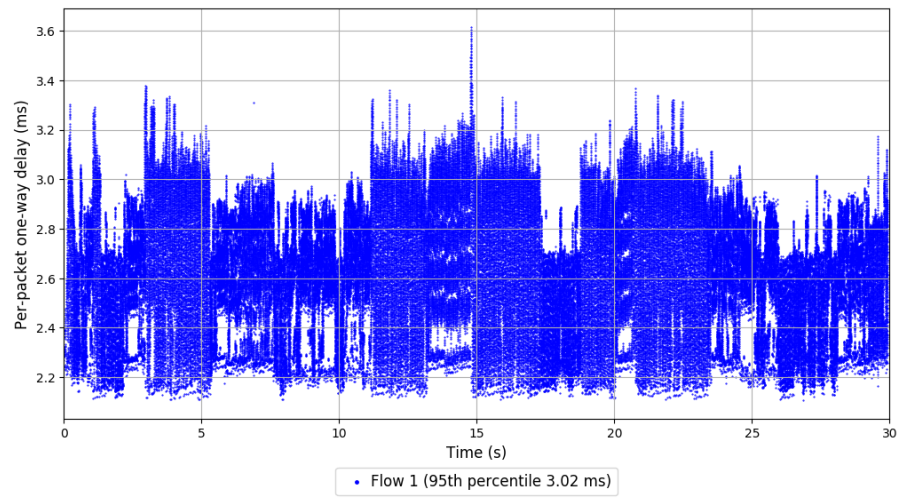
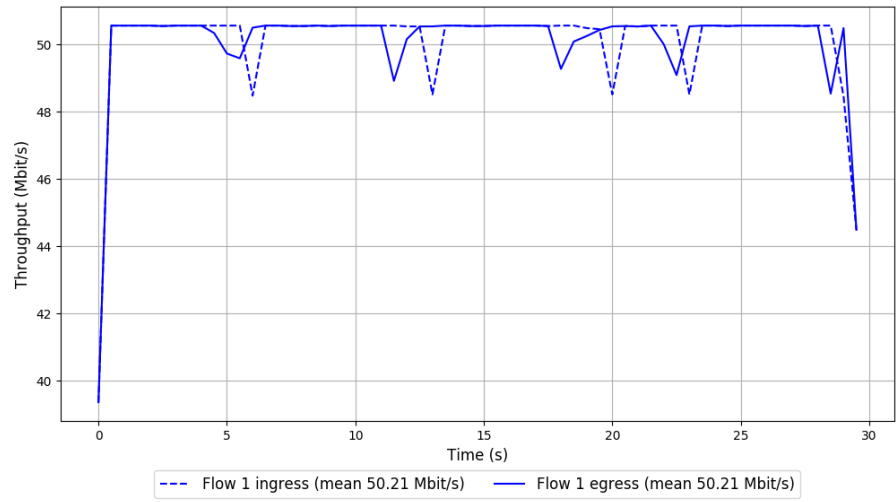
-- Flow 1:

Average throughput: 50.21 Mbit/s

95th percentile per-packet one-way delay: 3.020 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

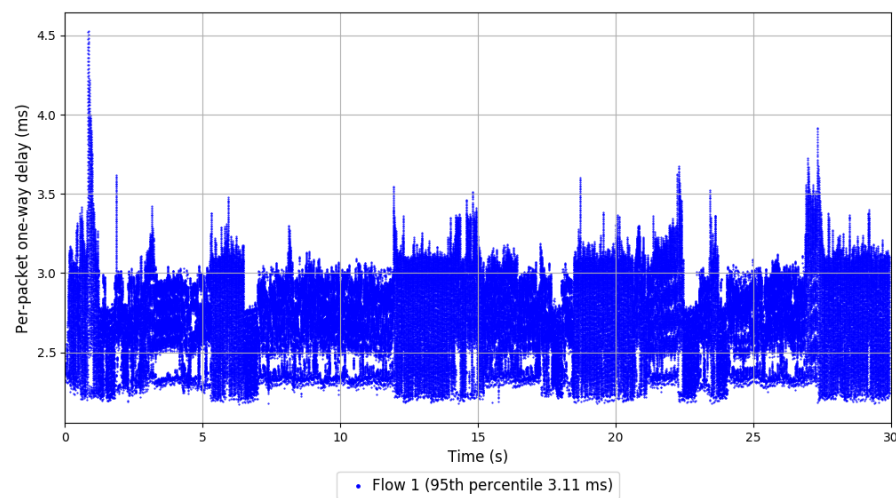
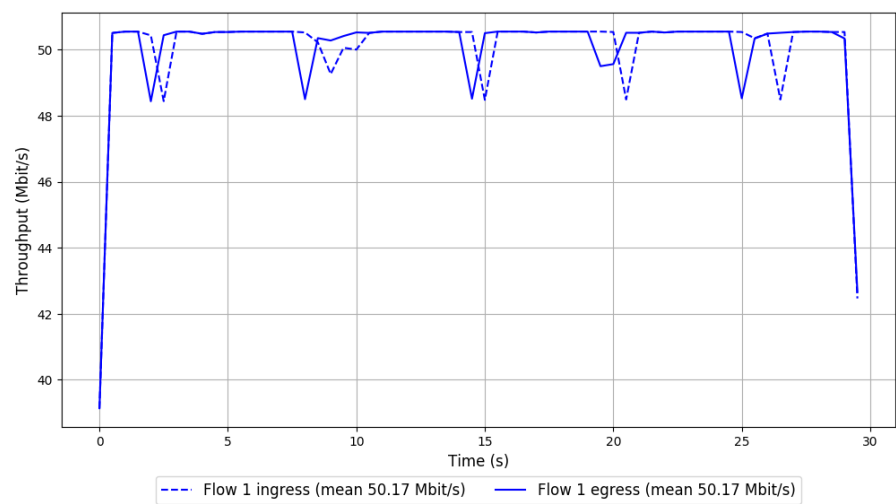


Run 2: Statistics of Sprout

Start at: 2017-12-05 13:23:05
End at: 2017-12-05 13:23:35
Local clock offset: -0.216 ms
Remote clock offset: -0.109 ms

Below is generated by plot.py at 2017-12-05 18:23:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.17 Mbit/s
95th percentile per-packet one-way delay: 3.109 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.17 Mbit/s
95th percentile per-packet one-way delay: 3.109 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

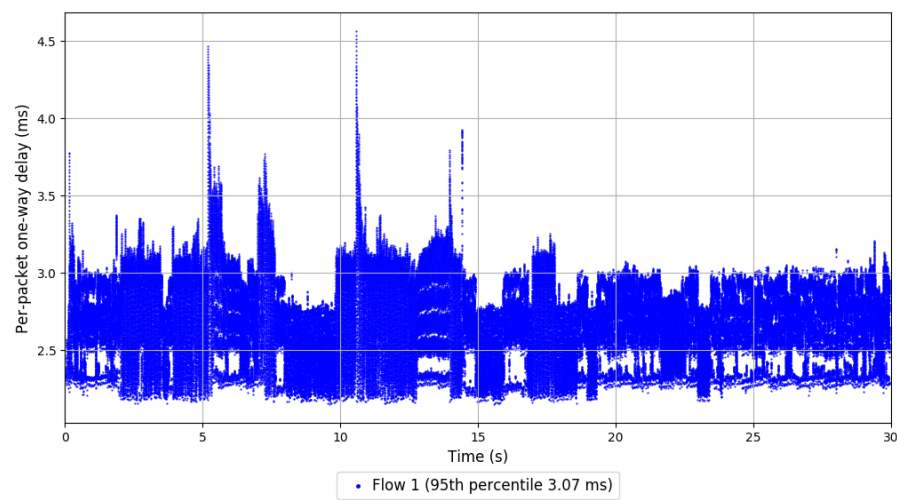
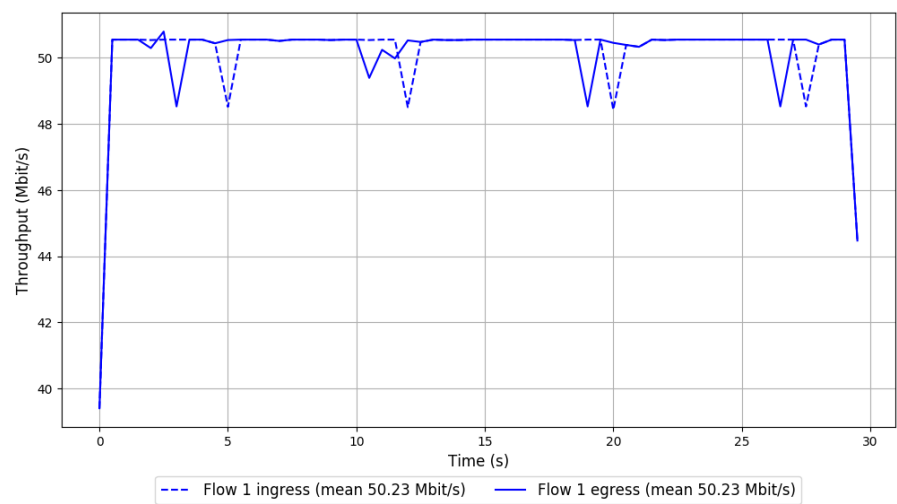


Run 3: Statistics of Sprout

Start at: 2017-12-05 13:41:17
End at: 2017-12-05 13:41:47
Local clock offset: -0.161 ms
Remote clock offset: -0.148 ms

Below is generated by plot.py at 2017-12-05 18:23:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.23 Mbit/s
95th percentile per-packet one-way delay: 3.072 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.23 Mbit/s
95th percentile per-packet one-way delay: 3.072 ms
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

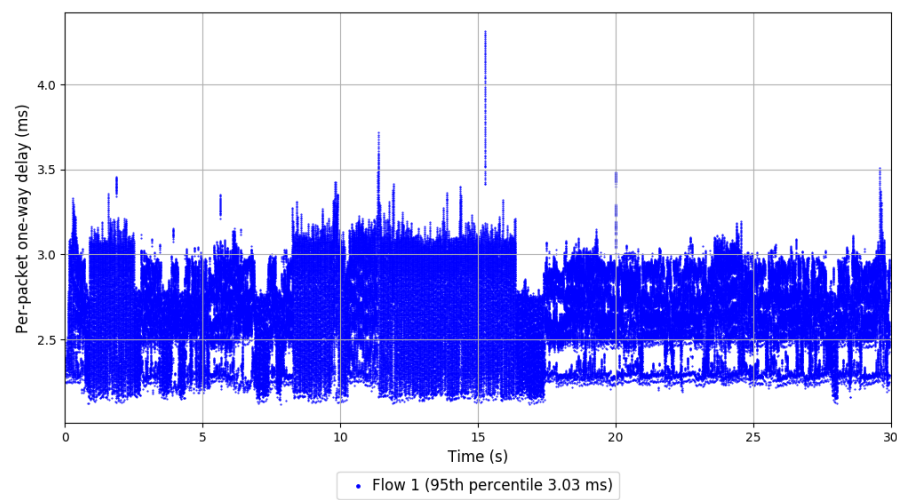
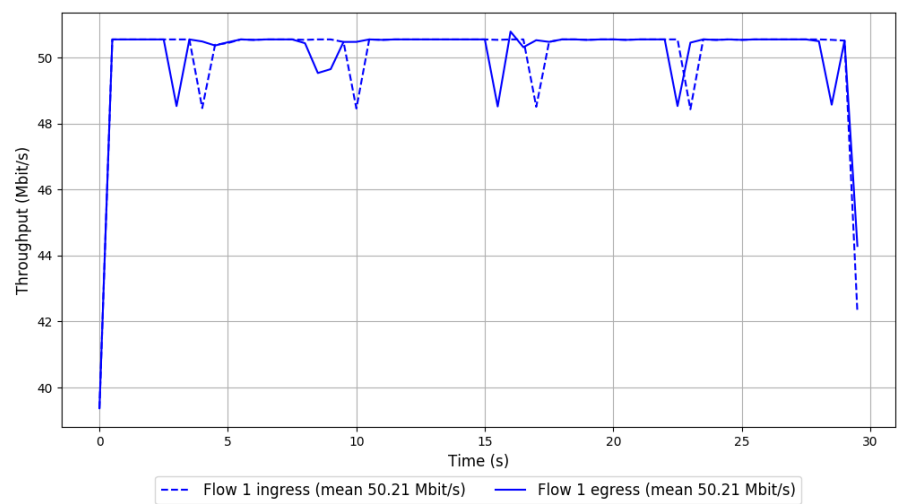


Run 4: Statistics of Sprout

Start at: 2017-12-05 13:59:15
End at: 2017-12-05 13:59:45
Local clock offset: -0.098 ms
Remote clock offset: -0.136 ms

Below is generated by plot.py at 2017-12-05 18:23:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.21 Mbit/s
95th percentile per-packet one-way delay: 3.032 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.21 Mbit/s
95th percentile per-packet one-way delay: 3.032 ms
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

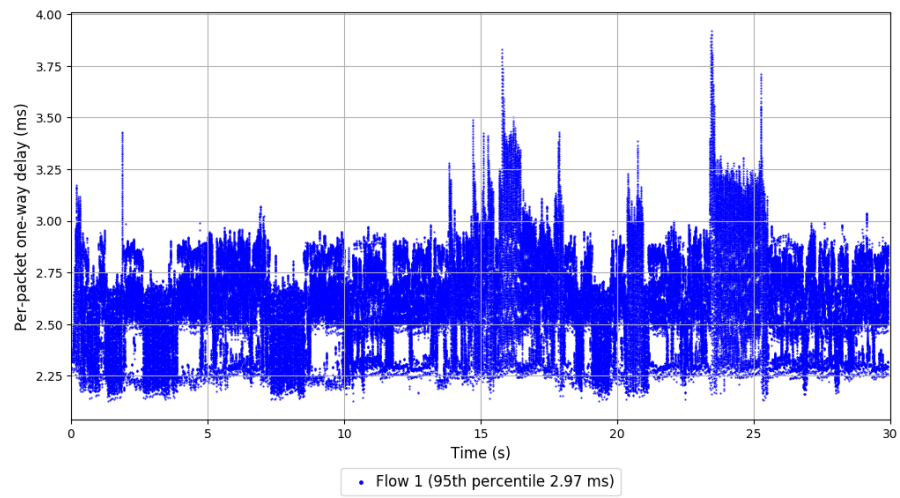
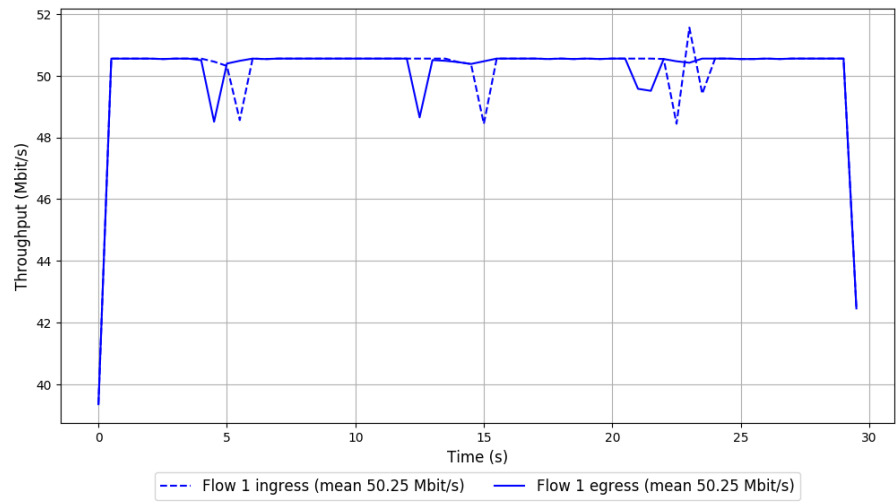


Run 5: Statistics of Sprout

Start at: 2017-12-05 14:17:14
End at: 2017-12-05 14:17:44
Local clock offset: -0.046 ms
Remote clock offset: -0.119 ms

Below is generated by plot.py at 2017-12-05 18:23:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.25 Mbit/s
95th percentile per-packet one-way delay: 2.970 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.25 Mbit/s
95th percentile per-packet one-way delay: 2.970 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

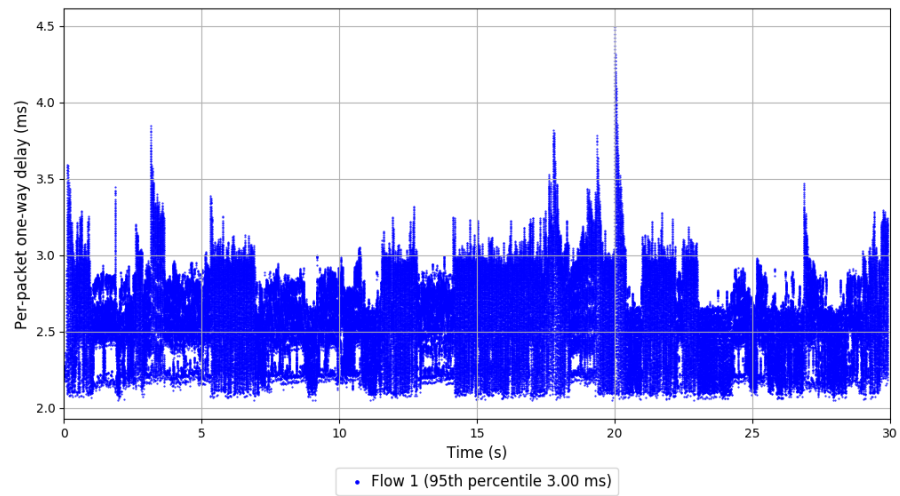
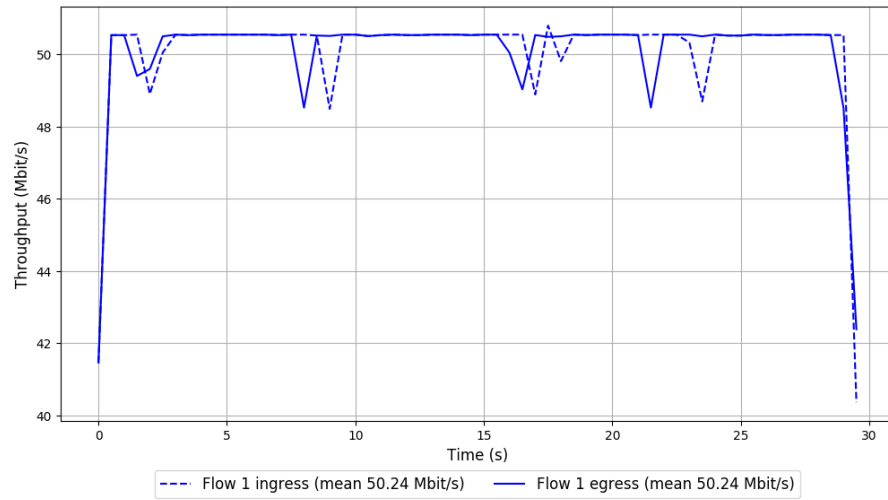


Run 6: Statistics of Sprout

Start at: 2017-12-05 14:35:19
End at: 2017-12-05 14:35:49
Local clock offset: 0.027 ms
Remote clock offset: -0.181 ms

Below is generated by plot.py at 2017-12-05 18:23:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.24 Mbit/s
95th percentile per-packet one-way delay: 3.004 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.24 Mbit/s
95th percentile per-packet one-way delay: 3.004 ms
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

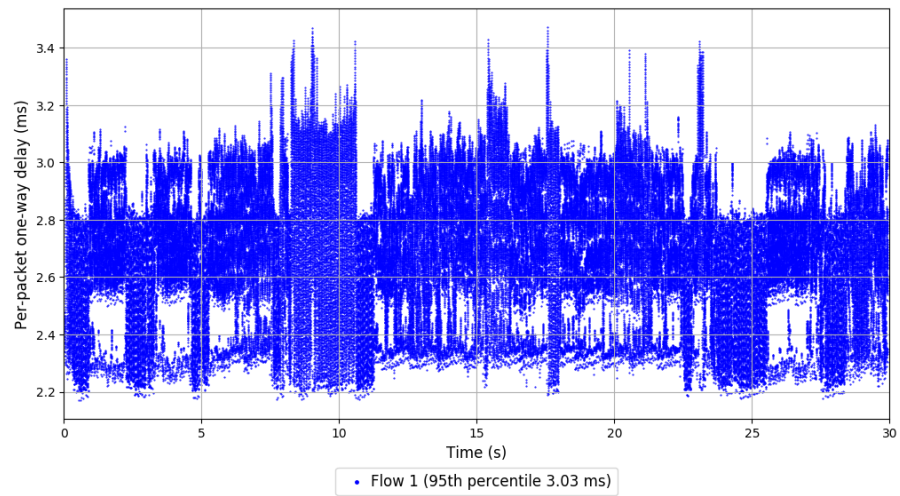
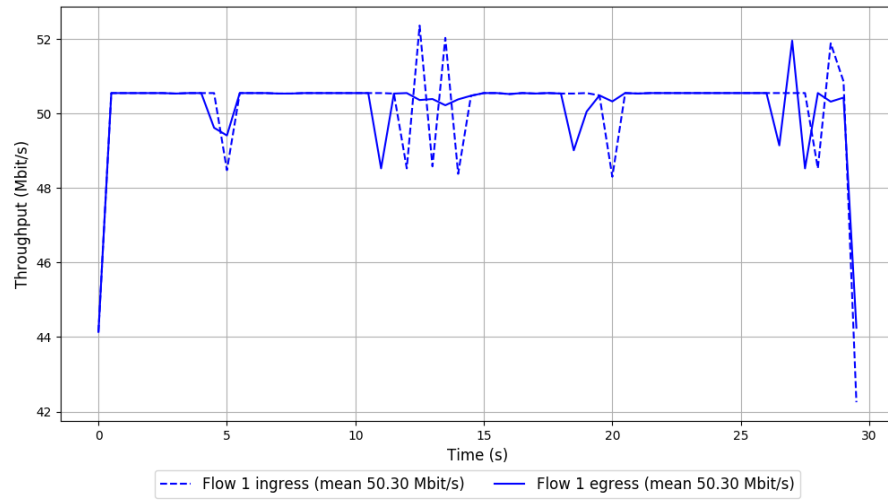


Run 7: Statistics of Sprout

Start at: 2017-12-05 14:53:19
End at: 2017-12-05 14:53:49
Local clock offset: 0.104 ms
Remote clock offset: -0.094 ms

Below is generated by plot.py at 2017-12-05 18:23:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.30 Mbit/s
95th percentile per-packet one-way delay: 3.029 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.30 Mbit/s
95th percentile per-packet one-way delay: 3.029 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

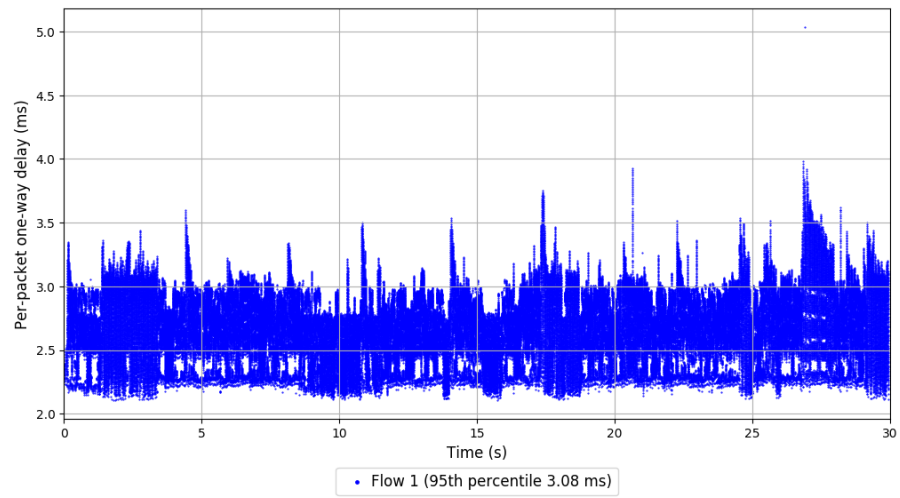
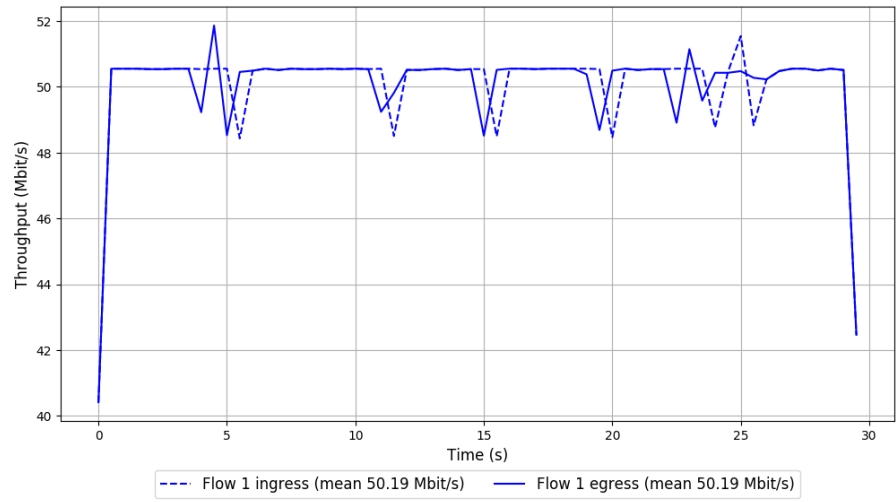


Run 8: Statistics of Sprout

Start at: 2017-12-05 15:11:05
End at: 2017-12-05 15:11:35
Local clock offset: 0.266 ms
Remote clock offset: -0.141 ms

Below is generated by plot.py at 2017-12-05 18:23:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.19 Mbit/s
95th percentile per-packet one-way delay: 3.077 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.19 Mbit/s
95th percentile per-packet one-way delay: 3.077 ms
Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

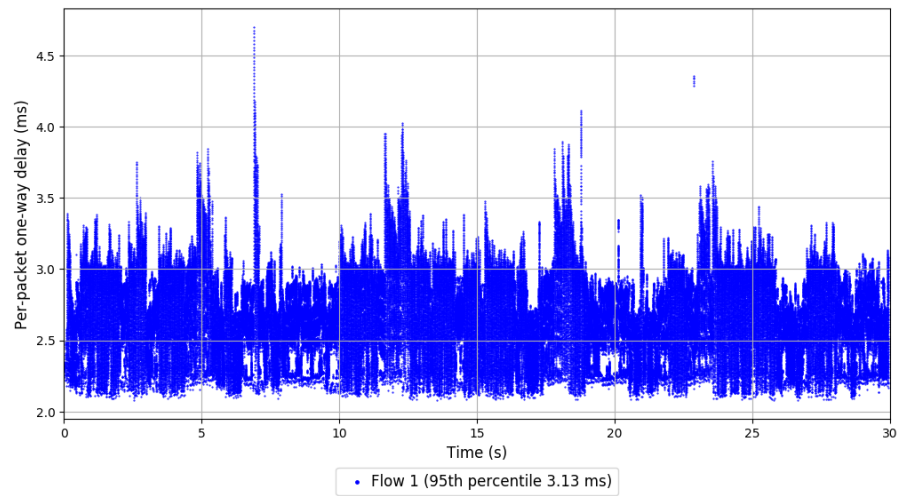
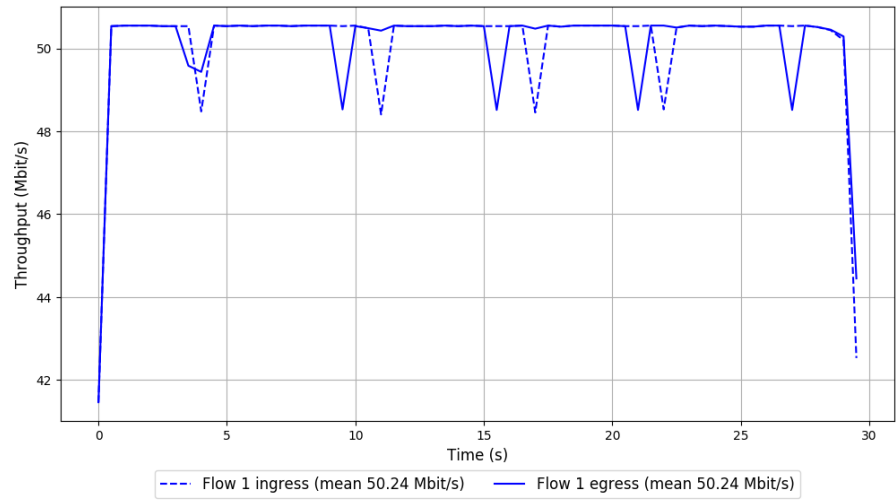


Run 9: Statistics of Sprout

Start at: 2017-12-05 15:29:14
End at: 2017-12-05 15:29:44
Local clock offset: 0.235 ms
Remote clock offset: -0.185 ms

Below is generated by plot.py at 2017-12-05 18:23:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.24 Mbit/s
95th percentile per-packet one-way delay: 3.132 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.24 Mbit/s
95th percentile per-packet one-way delay: 3.132 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

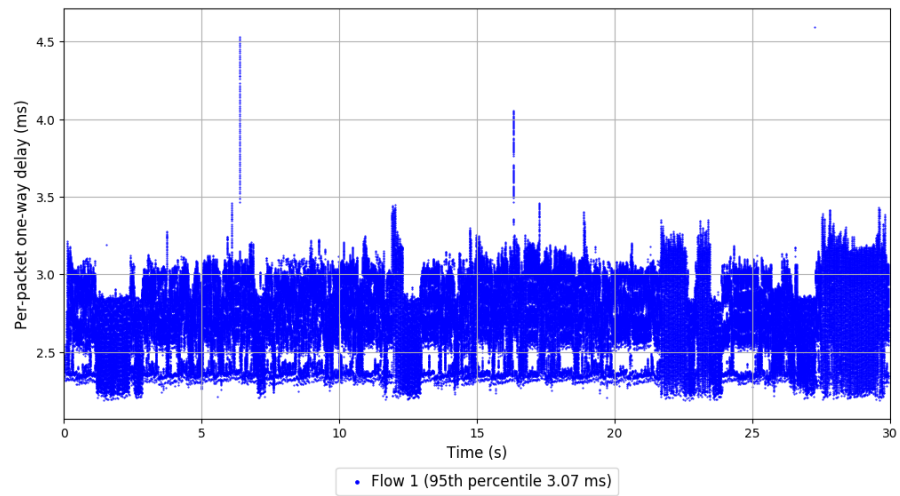
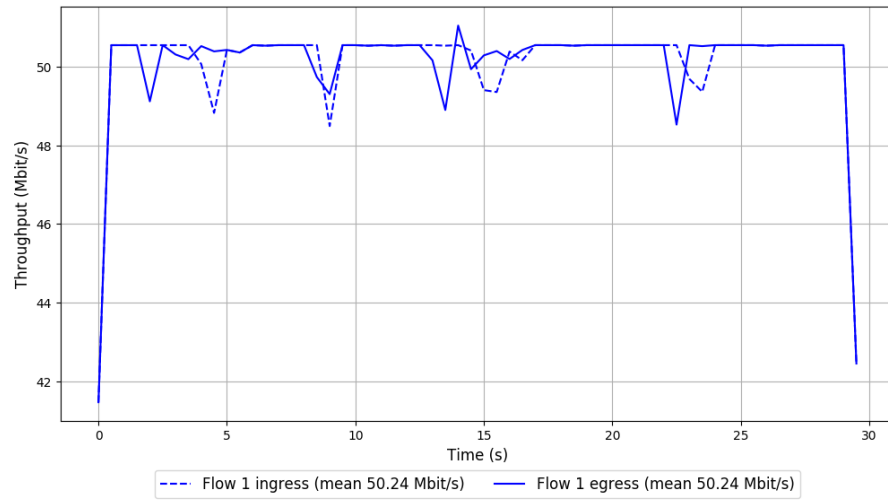


Run 10: Statistics of Sprout

Start at: 2017-12-05 15:47:25
End at: 2017-12-05 15:47:55
Local clock offset: 0.18 ms
Remote clock offset: -0.113 ms

Below is generated by plot.py at 2017-12-05 18:23:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.24 Mbit/s
95th percentile per-packet one-way delay: 3.071 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.24 Mbit/s
95th percentile per-packet one-way delay: 3.071 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

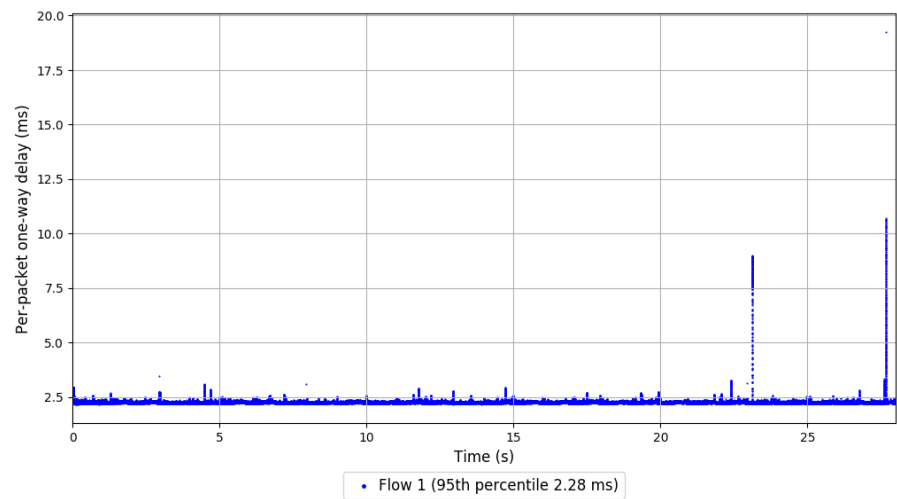
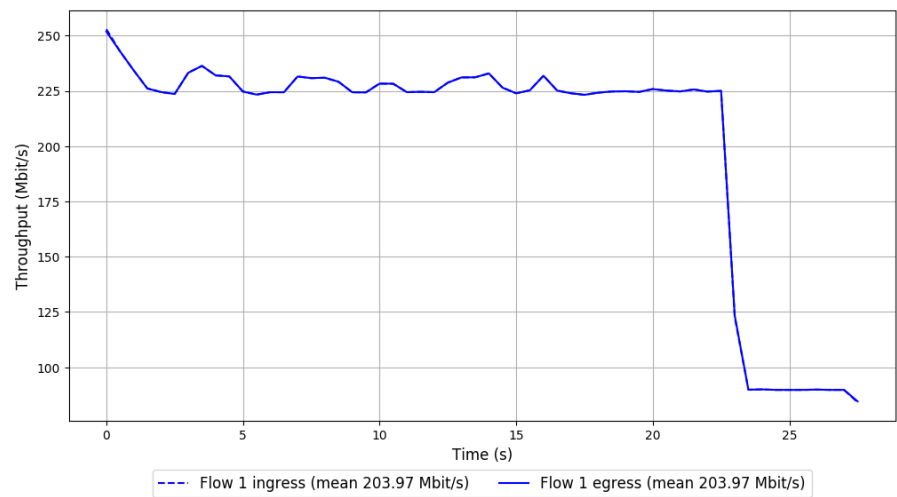


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-12-05 12:52:12
End at: 2017-12-05 12:52:42
Local clock offset: -0.222 ms
Remote clock offset: 0.075 ms

# Below is generated by plot.py at 2017-12-05 18:26:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 203.97 Mbit/s
95th percentile per-packet one-way delay: 2.279 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 203.97 Mbit/s
95th percentile per-packet one-way delay: 2.279 ms
Loss rate: 0.00%
```

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

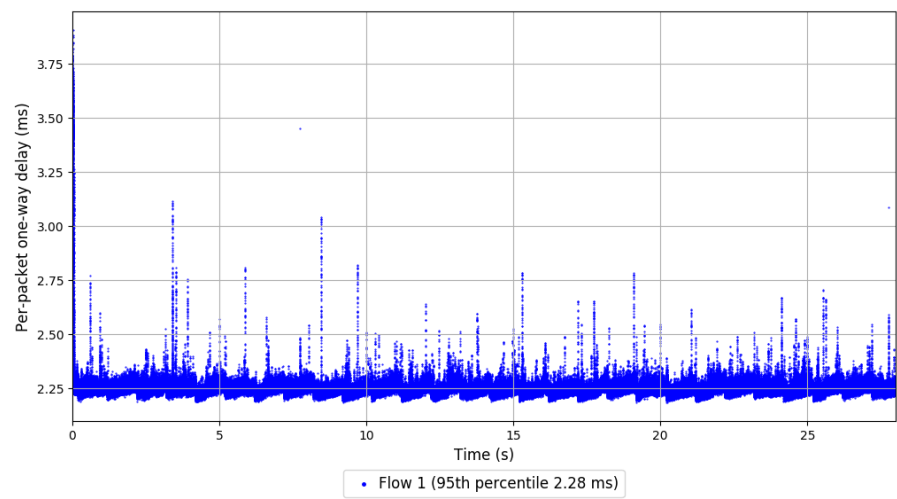
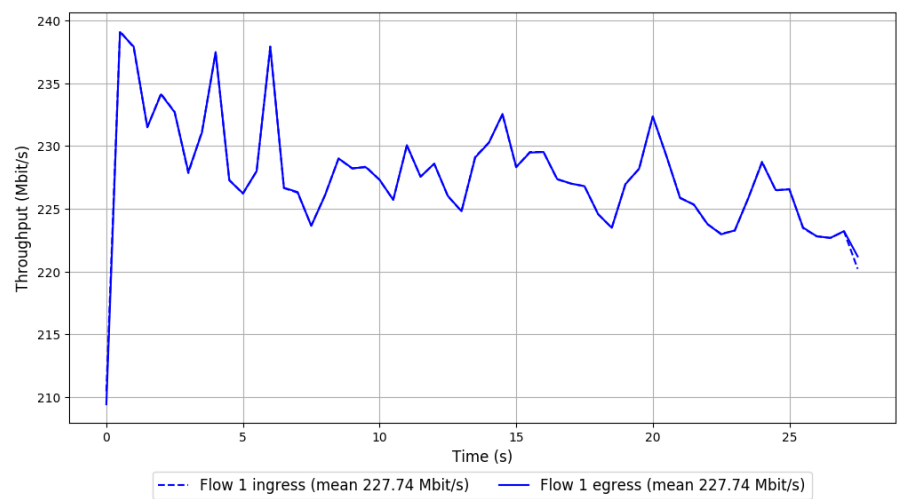


Run 2: Statistics of TaoVA-100x

Start at: 2017-12-05 13:10:17
End at: 2017-12-05 13:10:47
Local clock offset: -0.227 ms
Remote clock offset: -0.042 ms

Below is generated by plot.py at 2017-12-05 18:26:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 227.74 Mbit/s
95th percentile per-packet one-way delay: 2.284 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 227.74 Mbit/s
95th percentile per-packet one-way delay: 2.284 ms
Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-12-05 13:28:14

End at: 2017-12-05 13:28:44

Local clock offset: -0.133 ms

Remote clock offset: -0.106 ms

Below is generated by plot.py at 2017-12-05 18:26:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.69 Mbit/s

95th percentile per-packet one-way delay: 2.222 ms

Loss rate: 0.00%

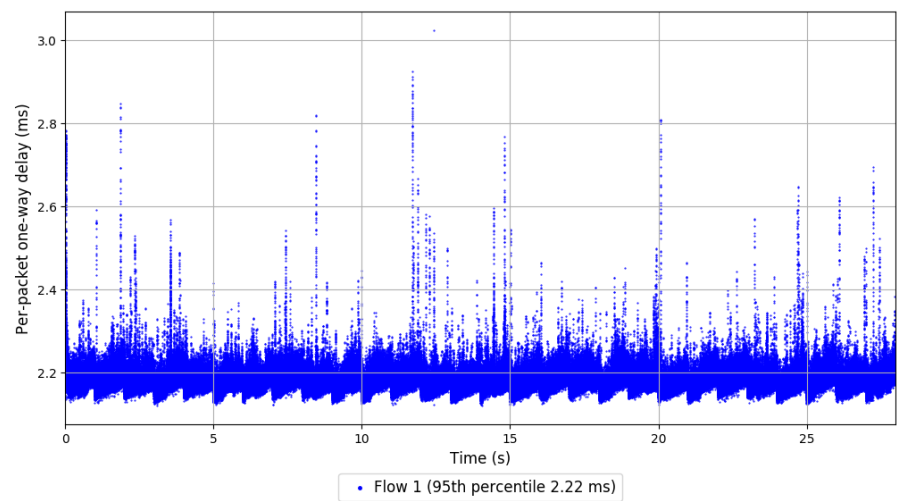
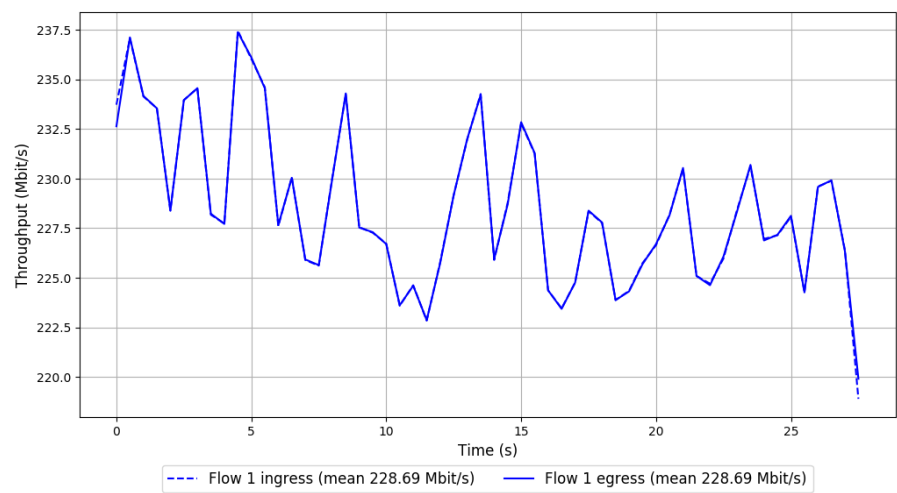
-- Flow 1:

Average throughput: 228.69 Mbit/s

95th percentile per-packet one-way delay: 2.222 ms

Loss rate: 0.00%

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

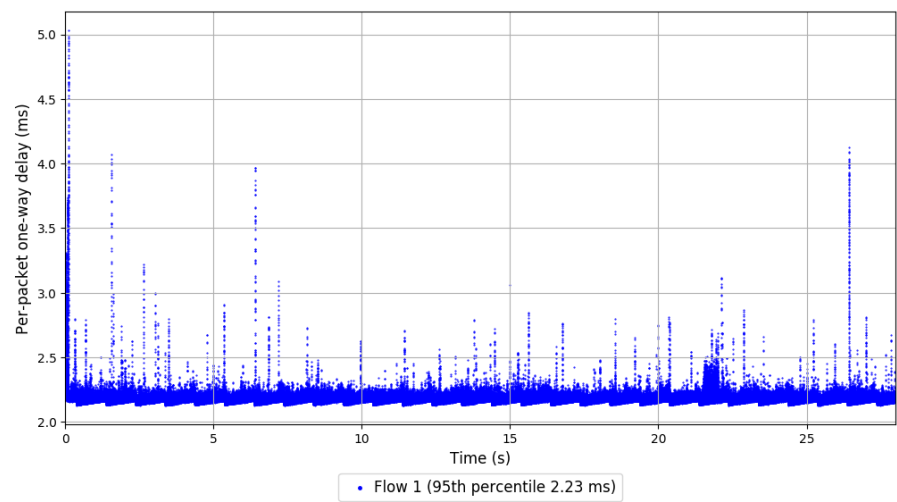
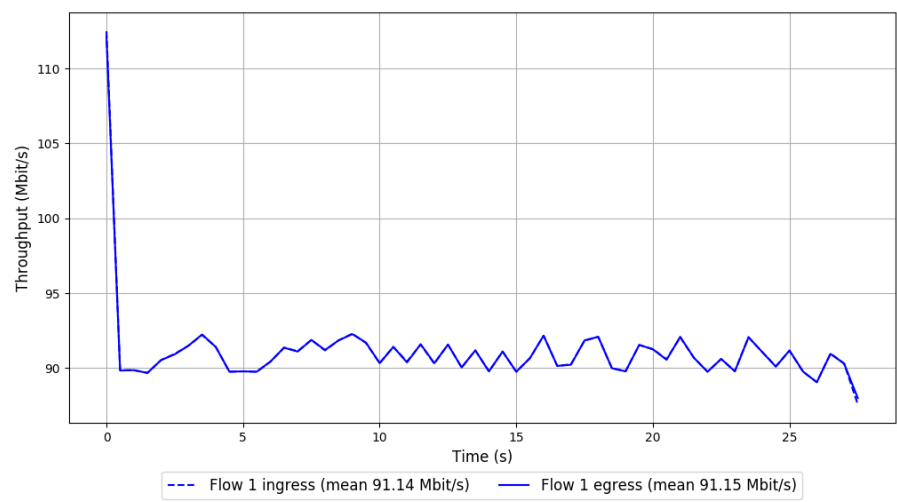


Run 4: Statistics of TaoVA-100x

Start at: 2017-12-05 13:46:23
End at: 2017-12-05 13:46:53
Local clock offset: -0.144 ms
Remote clock offset: -0.151 ms

Below is generated by plot.py at 2017-12-05 18:26:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.15 Mbit/s
95th percentile per-packet one-way delay: 2.227 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 91.15 Mbit/s
95th percentile per-packet one-way delay: 2.227 ms
Loss rate: 0.00%

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

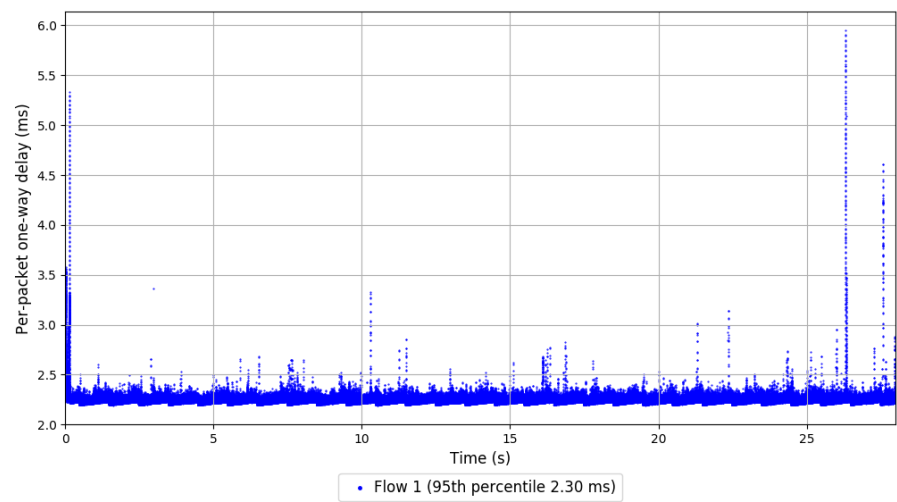
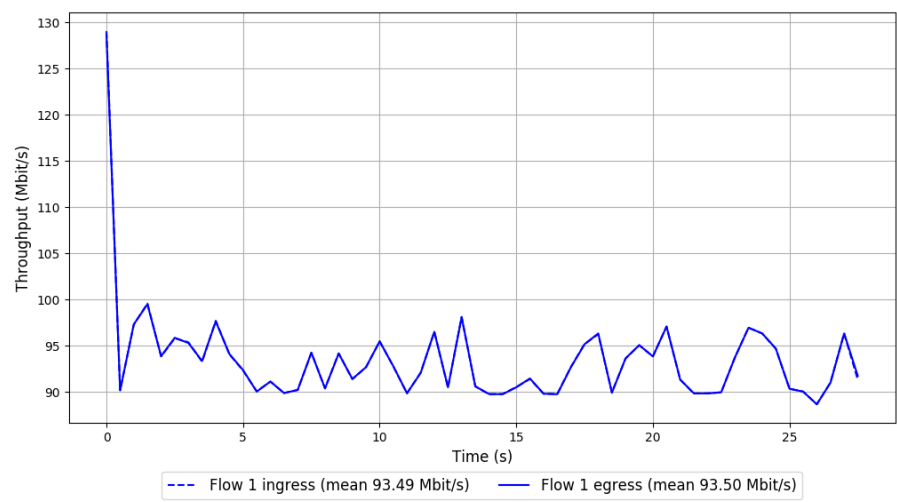


Run 5: Statistics of TaoVA-100x

Start at: 2017-12-05 14:04:26
End at: 2017-12-05 14:04:56
Local clock offset: -0.157 ms
Remote clock offset: -0.116 ms

Below is generated by plot.py at 2017-12-05 18:26:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.50 Mbit/s
95th percentile per-packet one-way delay: 2.296 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 93.50 Mbit/s
95th percentile per-packet one-way delay: 2.296 ms
Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-12-05 14:22:32

End at: 2017-12-05 14:23:02

Local clock offset: -0.026 ms

Remote clock offset: -0.165 ms

Below is generated by plot.py at 2017-12-05 18:26:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.96 Mbit/s

95th percentile per-packet one-way delay: 2.171 ms

Loss rate: 0.00%

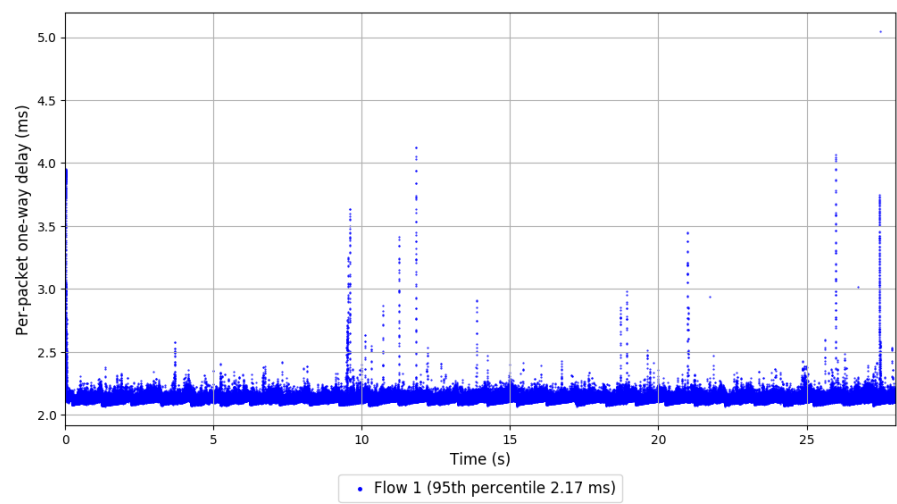
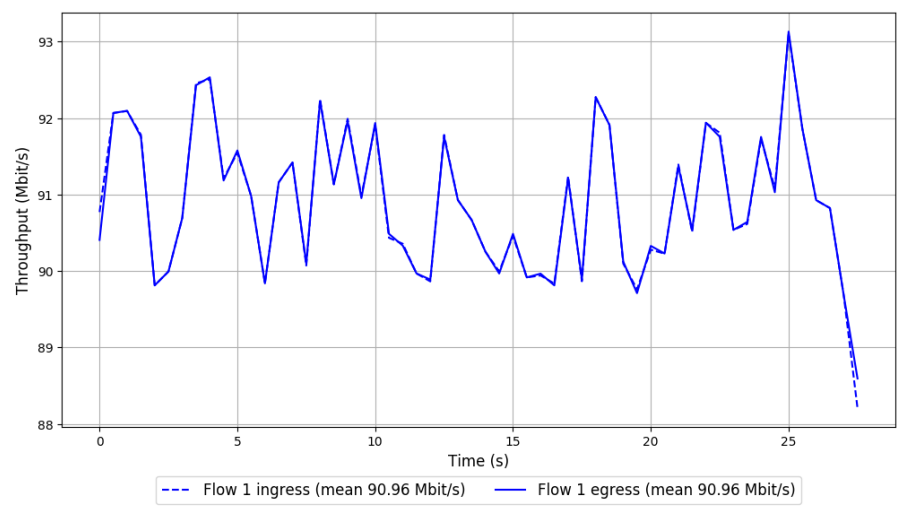
-- Flow 1:

Average throughput: 90.96 Mbit/s

95th percentile per-packet one-way delay: 2.171 ms

Loss rate: 0.00%

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

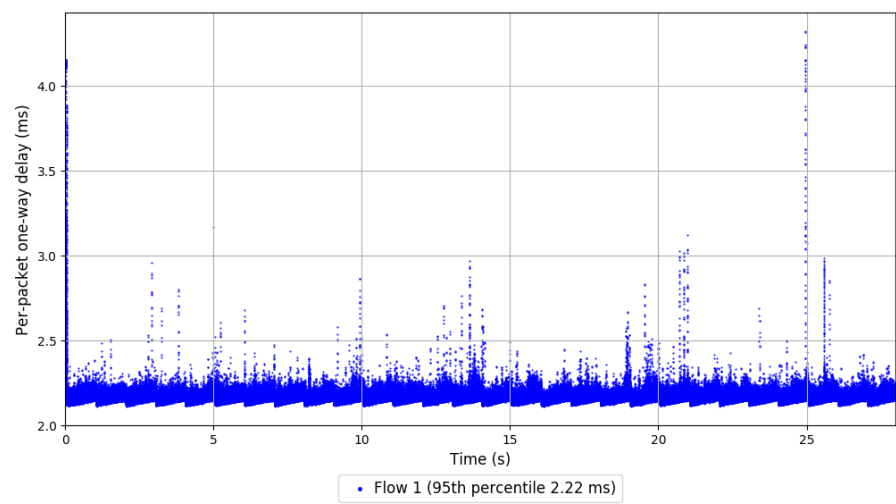
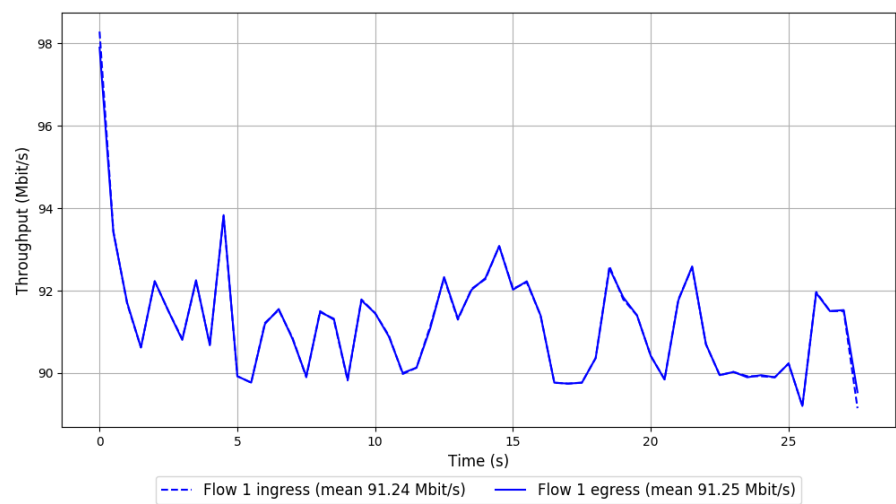


Run 7: Statistics of TaoVA-100x

Start at: 2017-12-05 14:40:27
End at: 2017-12-05 14:40:57
Local clock offset: 0.053 ms
Remote clock offset: -0.102 ms

Below is generated by plot.py at 2017-12-05 18:26:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.25 Mbit/s
95th percentile per-packet one-way delay: 2.218 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 91.25 Mbit/s
95th percentile per-packet one-way delay: 2.218 ms
Loss rate: 0.00%

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

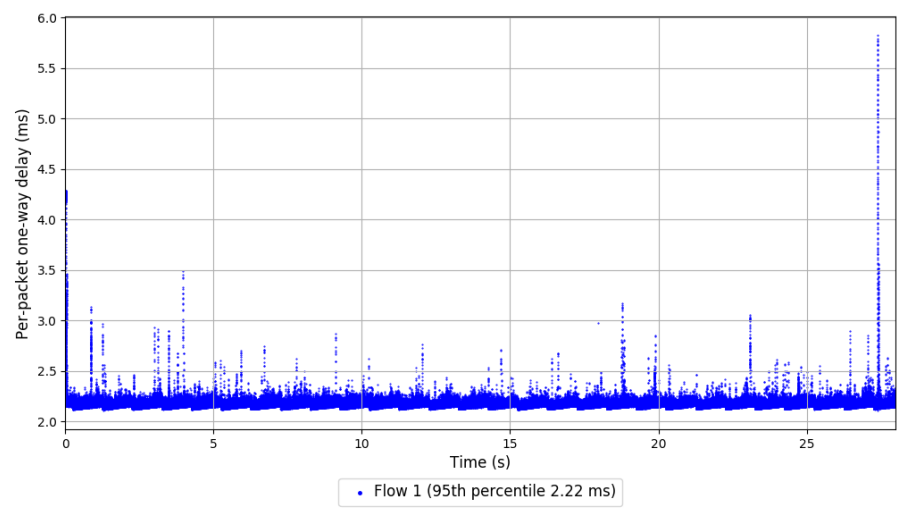
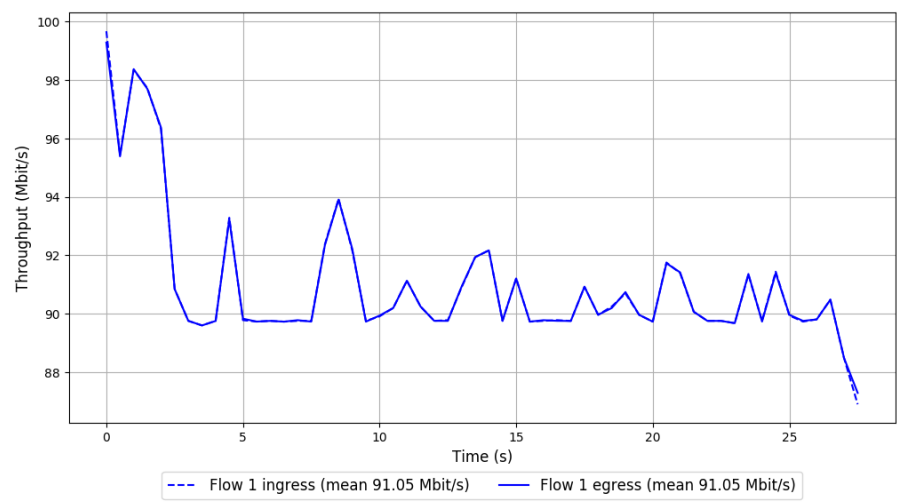


Run 8: Statistics of TaoVA-100x

Start at: 2017-12-05 14:58:31
End at: 2017-12-05 14:59:01
Local clock offset: 0.171 ms
Remote clock offset: -0.111 ms

Below is generated by plot.py at 2017-12-05 18:26:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.05 Mbit/s
95th percentile per-packet one-way delay: 2.218 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 91.05 Mbit/s
95th percentile per-packet one-way delay: 2.218 ms
Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-12-05 15:16:29

End at: 2017-12-05 15:16:59

Local clock offset: 0.284 ms

Remote clock offset: -0.128 ms

Below is generated by plot.py at 2017-12-05 18:26:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.65 Mbit/s

95th percentile per-packet one-way delay: 2.216 ms

Loss rate: 0.00%

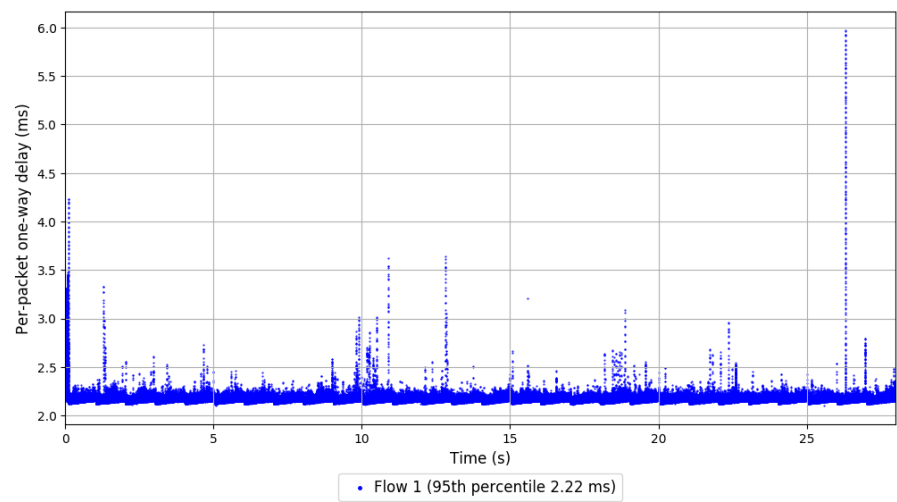
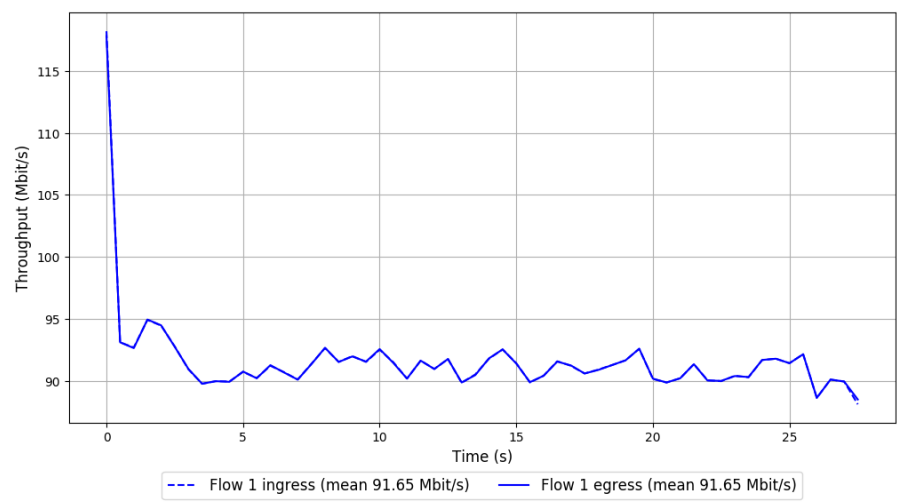
-- Flow 1:

Average throughput: 91.65 Mbit/s

95th percentile per-packet one-way delay: 2.216 ms

Loss rate: 0.00%

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



Run 10: Statistics of TaoVA-100x

Start at: 2017-12-05 15:34:26

End at: 2017-12-05 15:34:56

Local clock offset: 0.225 ms

Remote clock offset: -0.13 ms

Below is generated by plot.py at 2017-12-05 18:26:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.48 Mbit/s

95th percentile per-packet one-way delay: 2.241 ms

Loss rate: 0.00%

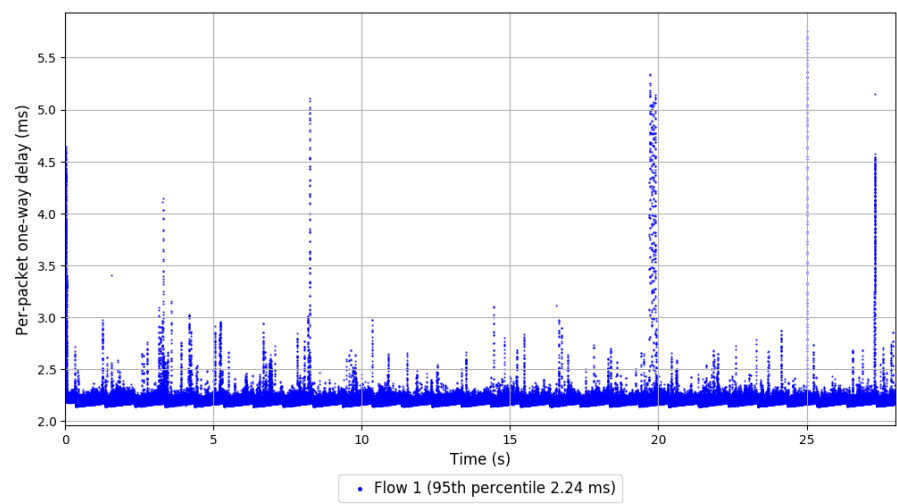
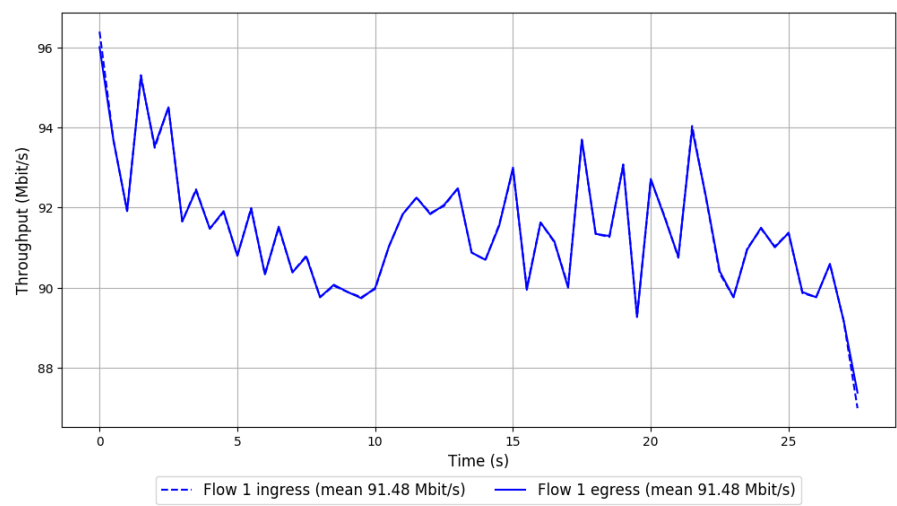
-- Flow 1:

Average throughput: 91.48 Mbit/s

95th percentile per-packet one-way delay: 2.241 ms

Loss rate: 0.00%

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

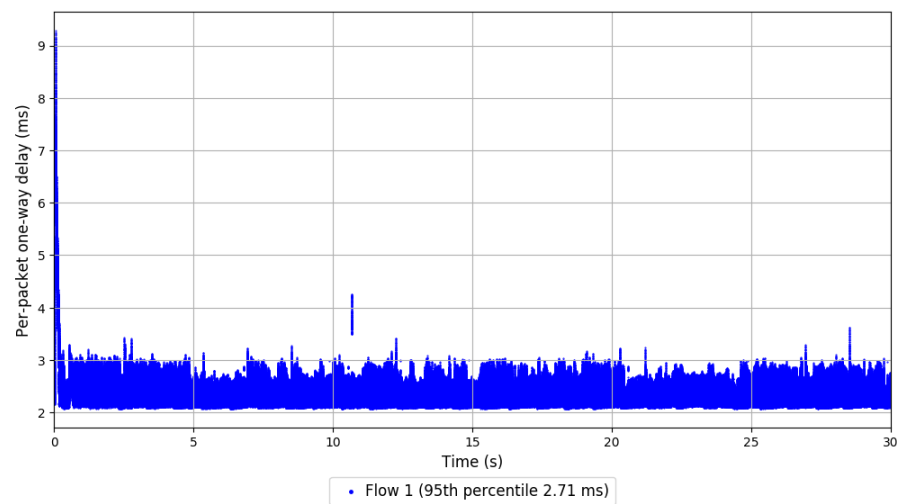
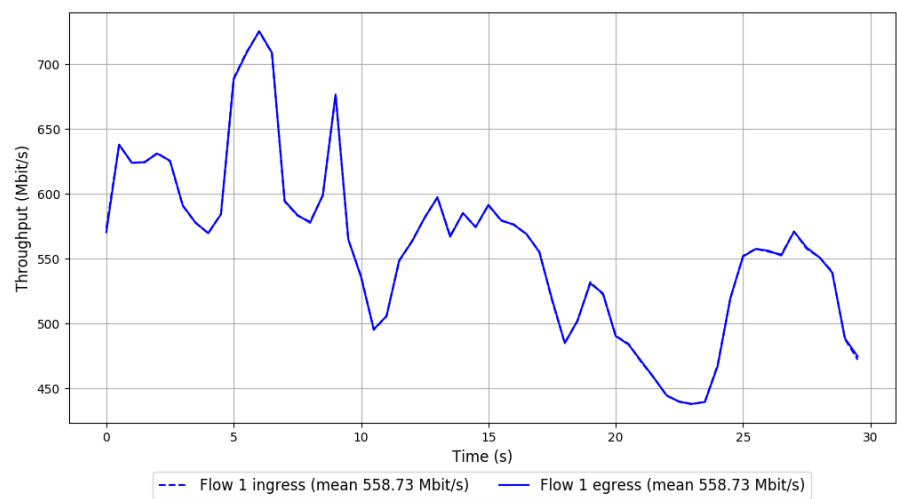


Run 1: Statistics of TCP Vegas

Start at: 2017-12-05 13:03:31
End at: 2017-12-05 13:04:01
Local clock offset: -0.202 ms
Remote clock offset: -0.088 ms

Below is generated by plot.py at 2017-12-05 18:31:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 558.73 Mbit/s
95th percentile per-packet one-way delay: 2.709 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 558.73 Mbit/s
95th percentile per-packet one-way delay: 2.709 ms
Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-12-05 13:21:40

End at: 2017-12-05 13:22:10

Local clock offset: -0.149 ms

Remote clock offset: -0.1 ms

Below is generated by plot.py at 2017-12-05 18:33:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 538.25 Mbit/s

95th percentile per-packet one-way delay: 4.435 ms

Loss rate: 0.00%

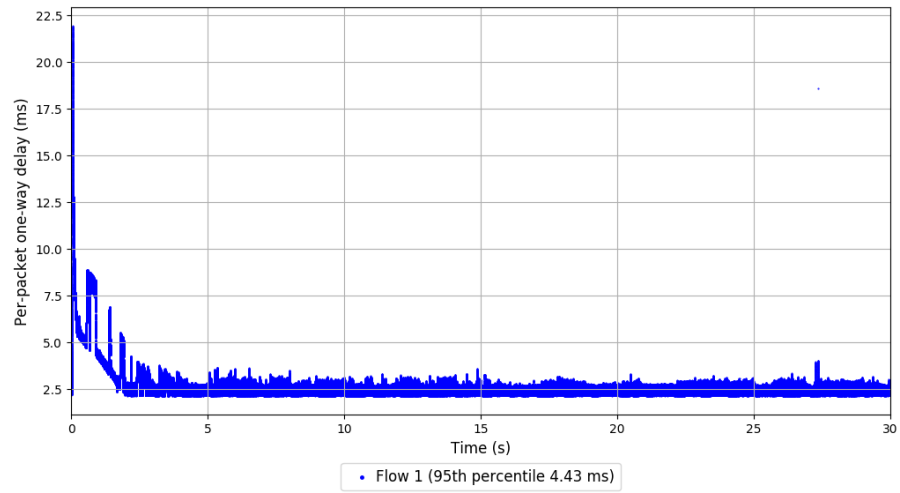
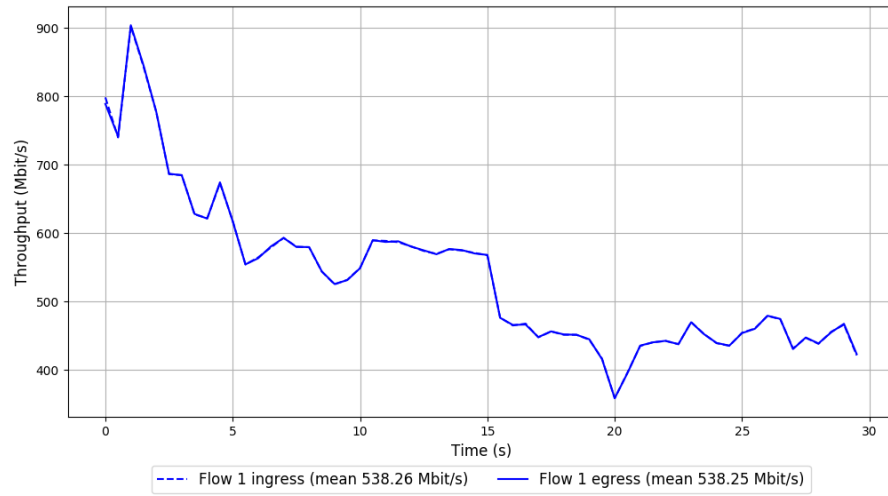
-- Flow 1:

Average throughput: 538.25 Mbit/s

95th percentile per-packet one-way delay: 4.435 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link

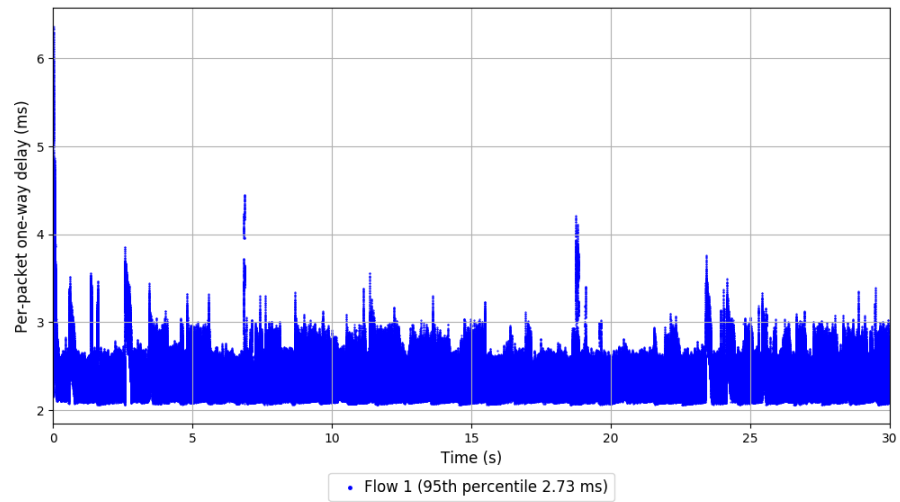
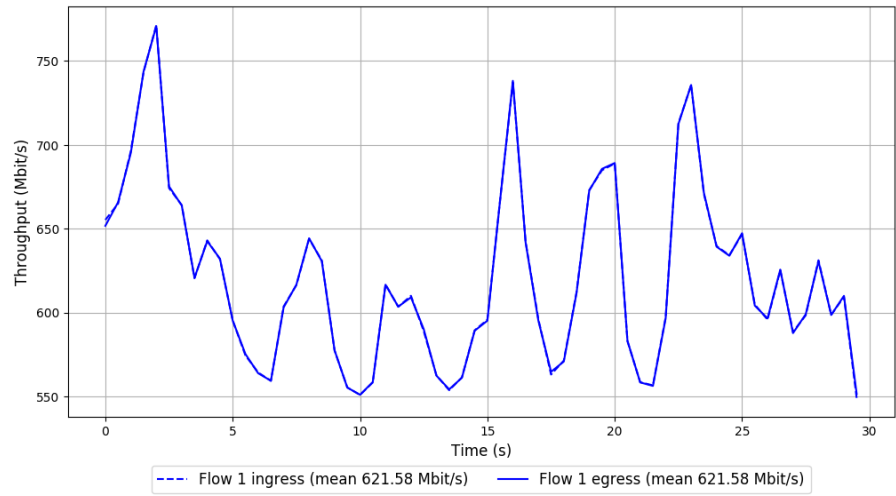


Run 3: Statistics of TCP Vegas

Start at: 2017-12-05 13:39:49
End at: 2017-12-05 13:40:19
Local clock offset: -0.149 ms
Remote clock offset: -0.214 ms

Below is generated by plot.py at 2017-12-05 18:34:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 621.58 Mbit/s
95th percentile per-packet one-way delay: 2.735 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 621.58 Mbit/s
95th percentile per-packet one-way delay: 2.735 ms
Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link

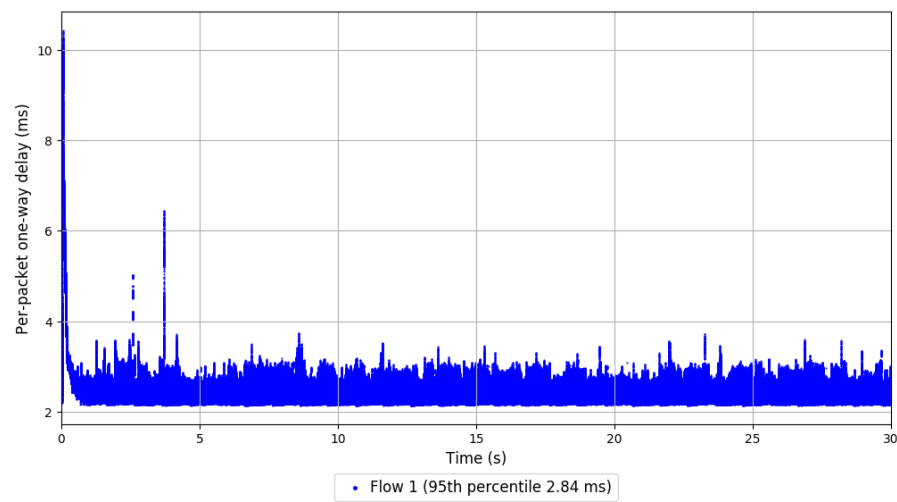
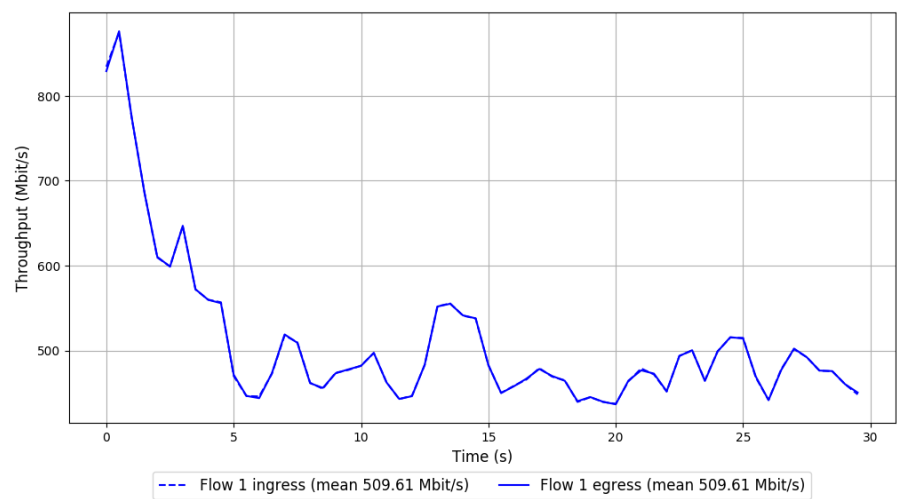


Run 4: Statistics of TCP Vegas

Start at: 2017-12-05 13:57:51
End at: 2017-12-05 13:58:21
Local clock offset: -0.128 ms
Remote clock offset: -0.138 ms

Below is generated by plot.py at 2017-12-05 18:34:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 509.61 Mbit/s
95th percentile per-packet one-way delay: 2.837 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 509.61 Mbit/s
95th percentile per-packet one-way delay: 2.837 ms
Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link

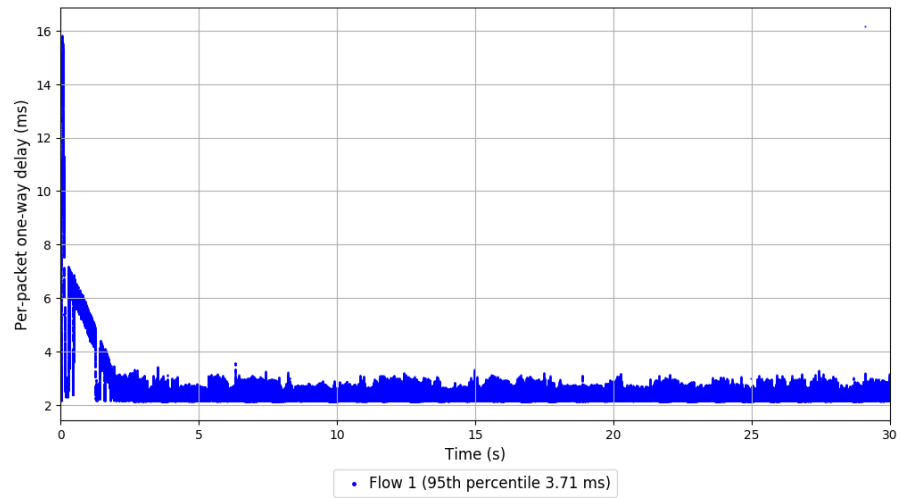
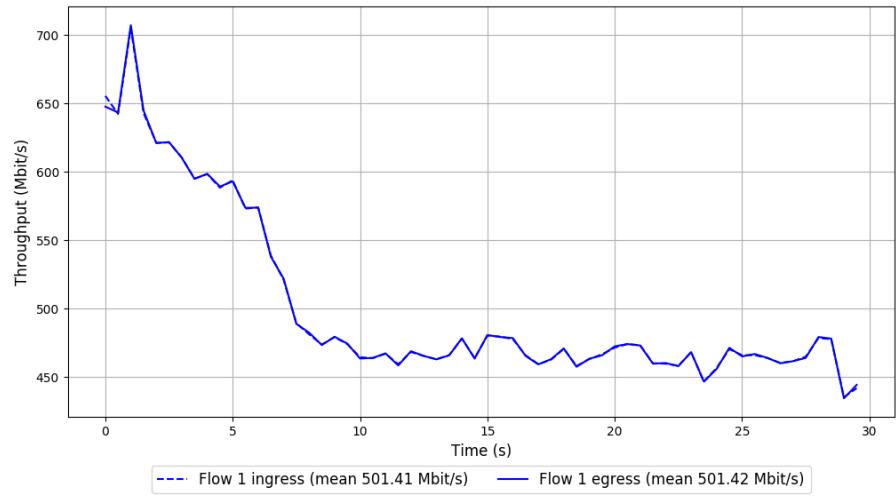


Run 5: Statistics of TCP Vegas

Start at: 2017-12-05 14:15:51
End at: 2017-12-05 14:16:21
Local clock offset: -0.064 ms
Remote clock offset: -0.132 ms

Below is generated by plot.py at 2017-12-05 18:34:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 501.42 Mbit/s
95th percentile per-packet one-way delay: 3.711 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 501.42 Mbit/s
95th percentile per-packet one-way delay: 3.711 ms
Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-12-05 14:33:56

End at: 2017-12-05 14:34:26

Local clock offset: 0.019 ms

Remote clock offset: -0.101 ms

Below is generated by plot.py at 2017-12-05 18:34:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 494.83 Mbit/s

95th percentile per-packet one-way delay: 2.724 ms

Loss rate: 0.00%

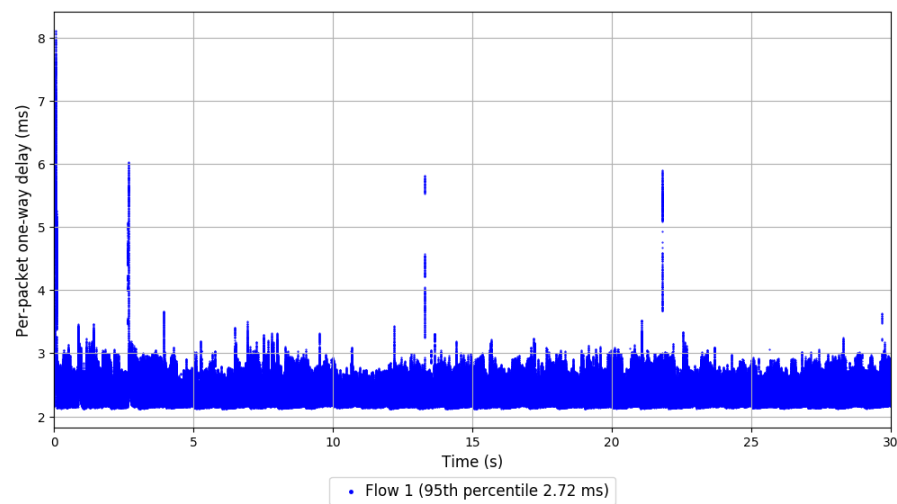
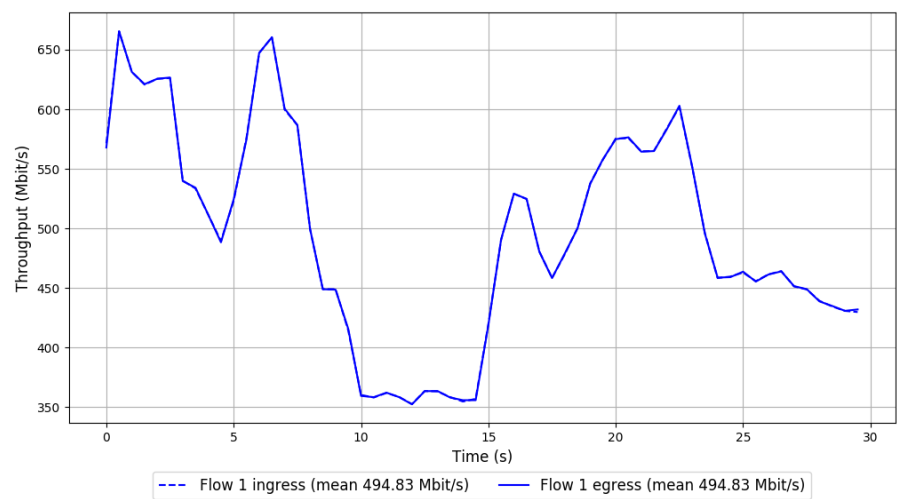
-- Flow 1:

Average throughput: 494.83 Mbit/s

95th percentile per-packet one-way delay: 2.724 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link

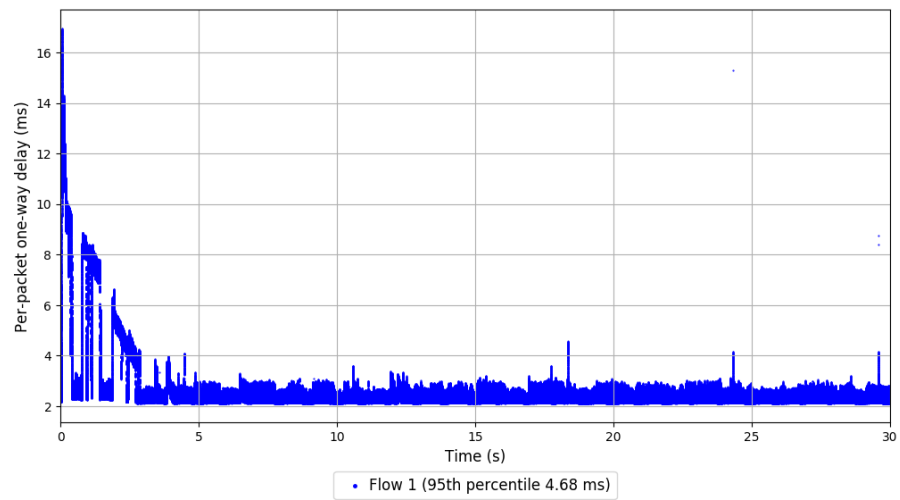
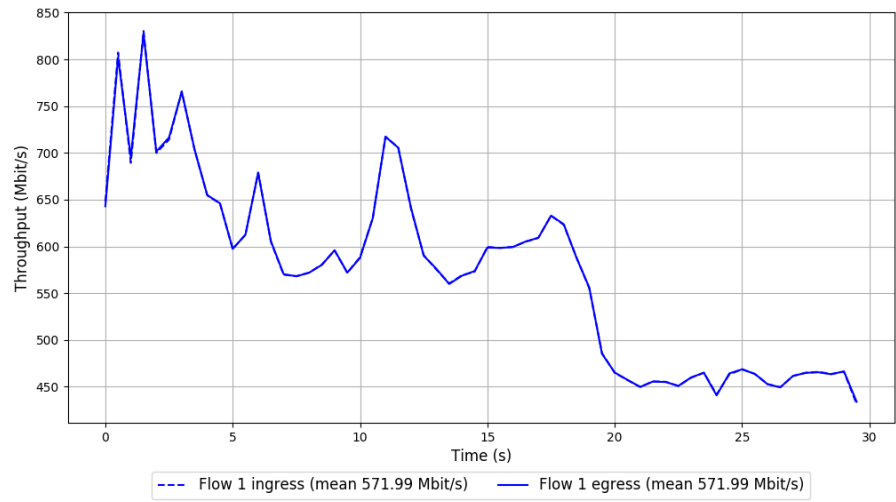


Run 7: Statistics of TCP Vegas

Start at: 2017-12-05 14:51:53
End at: 2017-12-05 14:52:23
Local clock offset: 0.134 ms
Remote clock offset: -0.119 ms

Below is generated by plot.py at 2017-12-05 18:34:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 571.99 Mbit/s
95th percentile per-packet one-way delay: 4.685 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 571.99 Mbit/s
95th percentile per-packet one-way delay: 4.685 ms
Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link

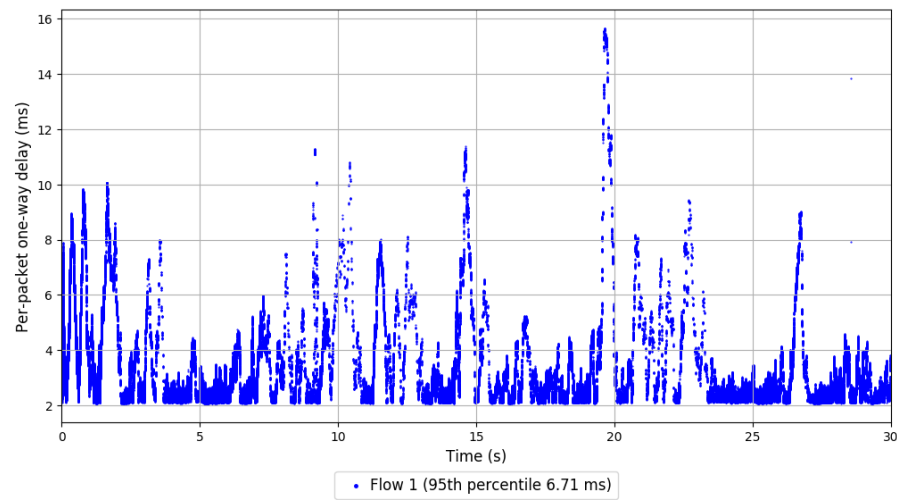
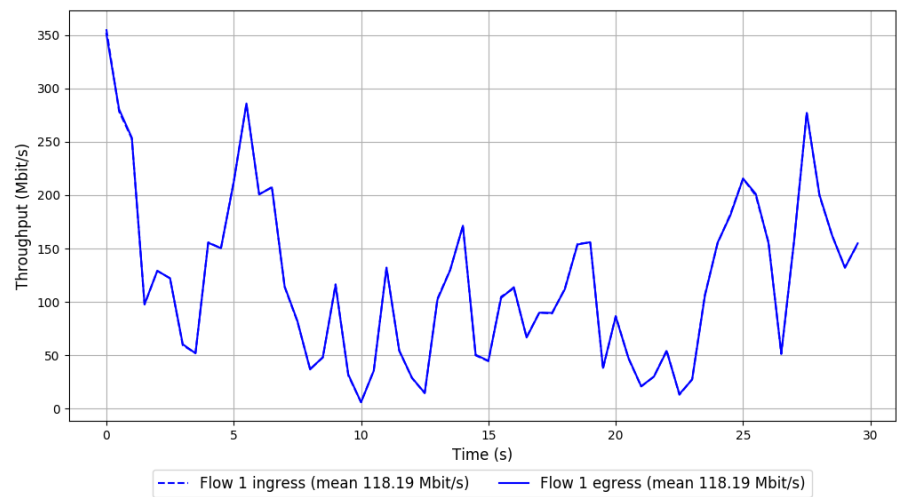


Run 8: Statistics of TCP Vegas

Start at: 2017-12-05 15:09:57
End at: 2017-12-05 15:10:27
Local clock offset: 0.231 ms
Remote clock offset: -0.196 ms

Below is generated by plot.py at 2017-12-05 18:34:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 118.19 Mbit/s
95th percentile per-packet one-way delay: 6.715 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 118.19 Mbit/s
95th percentile per-packet one-way delay: 6.715 ms
Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link

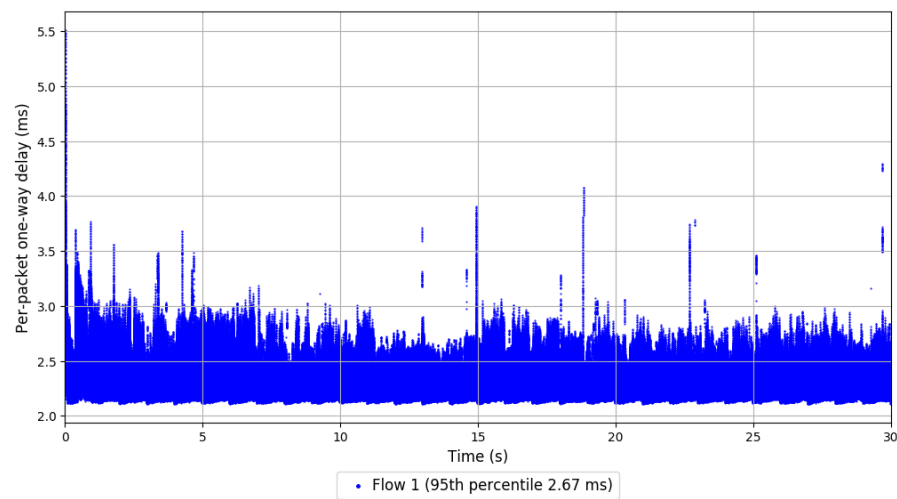
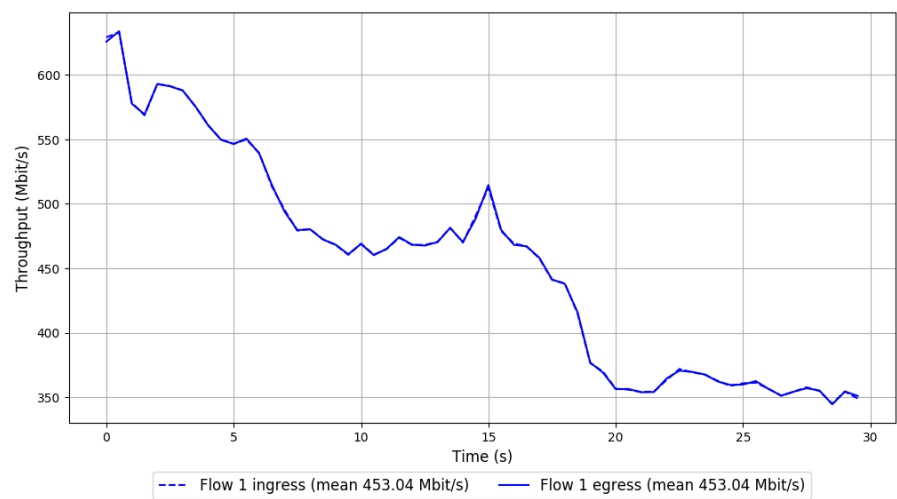


Run 9: Statistics of TCP Vegas

Start at: 2017-12-05 15:27:53
End at: 2017-12-05 15:28:23
Local clock offset: 0.244 ms
Remote clock offset: -0.133 ms

Below is generated by plot.py at 2017-12-05 18:34:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 453.04 Mbit/s
95th percentile per-packet one-way delay: 2.668 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 453.04 Mbit/s
95th percentile per-packet one-way delay: 2.668 ms
Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-12-05 15:46:05

End at: 2017-12-05 15:46:35

Local clock offset: 0.162 ms

Remote clock offset: -0.111 ms

Below is generated by plot.py at 2017-12-05 18:38:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 407.45 Mbit/s

95th percentile per-packet one-way delay: 2.806 ms

Loss rate: 0.00%

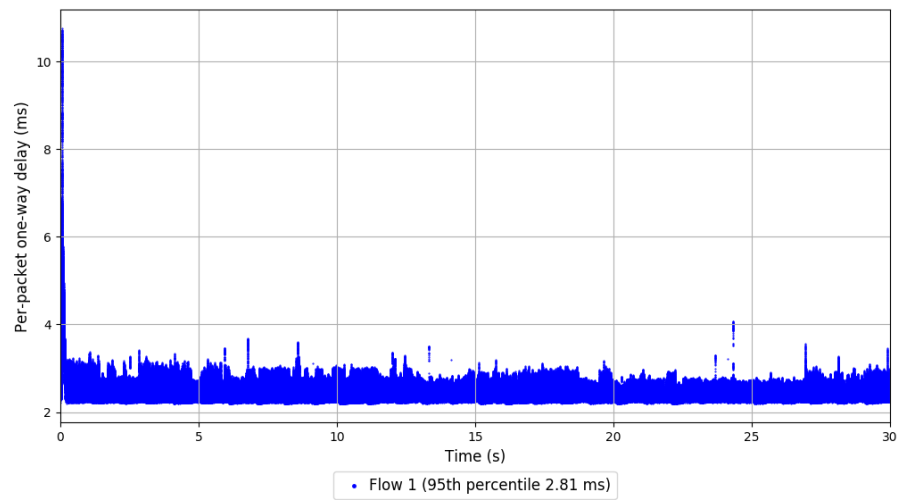
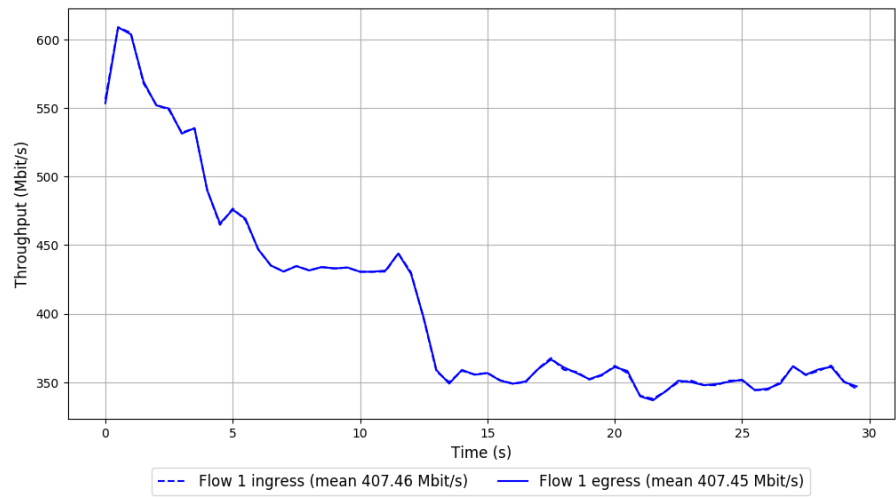
-- Flow 1:

Average throughput: 407.45 Mbit/s

95th percentile per-packet one-way delay: 2.806 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-12-05 12:53:30

End at: 2017-12-05 12:54:00

Local clock offset: -0.19 ms

Remote clock offset: 0.052 ms

Below is generated by plot.py at 2017-12-05 18:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 399.39 Mbit/s

95th percentile per-packet one-way delay: 12.814 ms

Loss rate: 0.01%

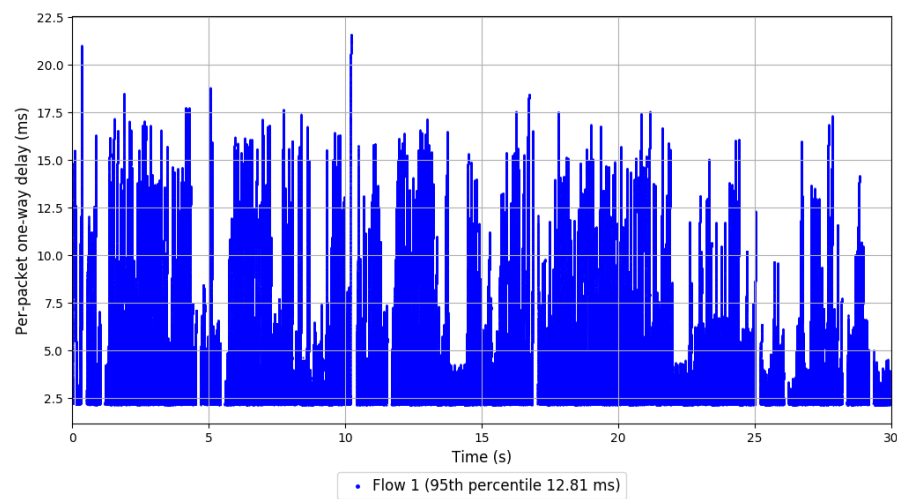
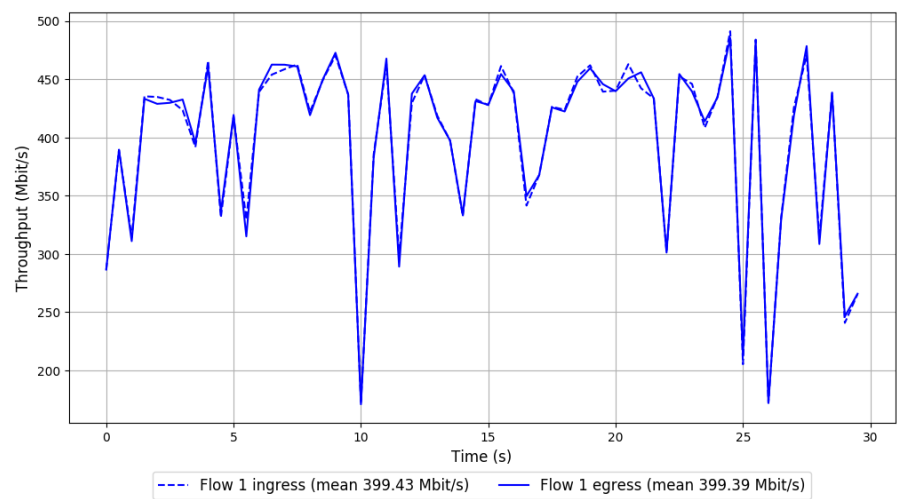
-- Flow 1:

Average throughput: 399.39 Mbit/s

95th percentile per-packet one-way delay: 12.814 ms

Loss rate: 0.01%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-12-05 13:11:36

End at: 2017-12-05 13:12:06

Local clock offset: -0.15 ms

Remote clock offset: -0.06 ms

Below is generated by plot.py at 2017-12-05 18:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 299.25 Mbit/s

95th percentile per-packet one-way delay: 8.239 ms

Loss rate: 0.06%

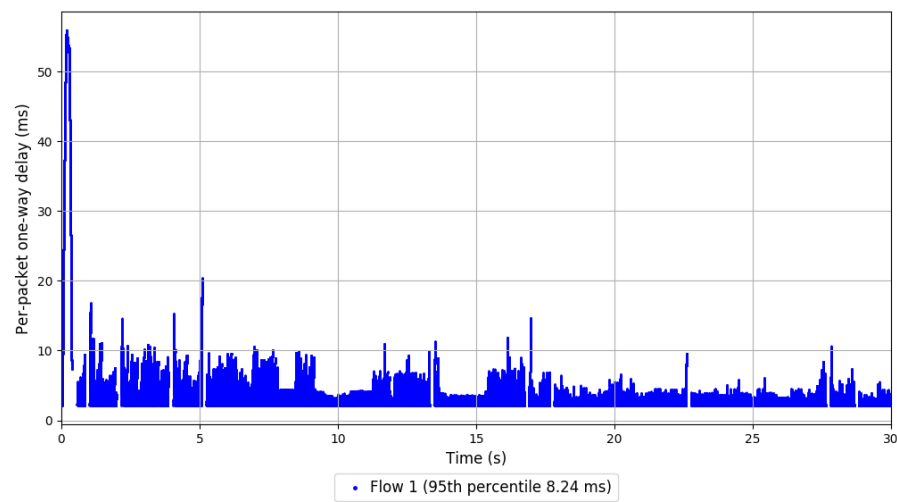
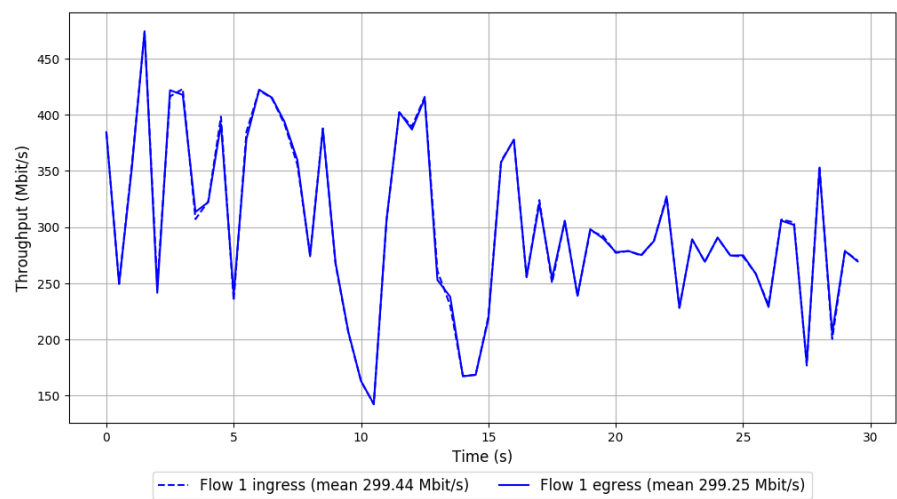
-- Flow 1:

Average throughput: 299.25 Mbit/s

95th percentile per-packet one-way delay: 8.239 ms

Loss rate: 0.06%

Run 2: Report of Verus — Data Link

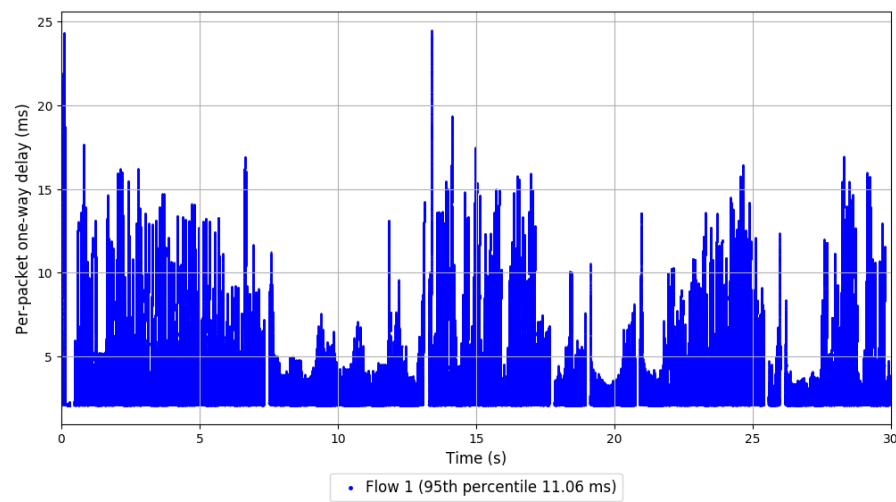
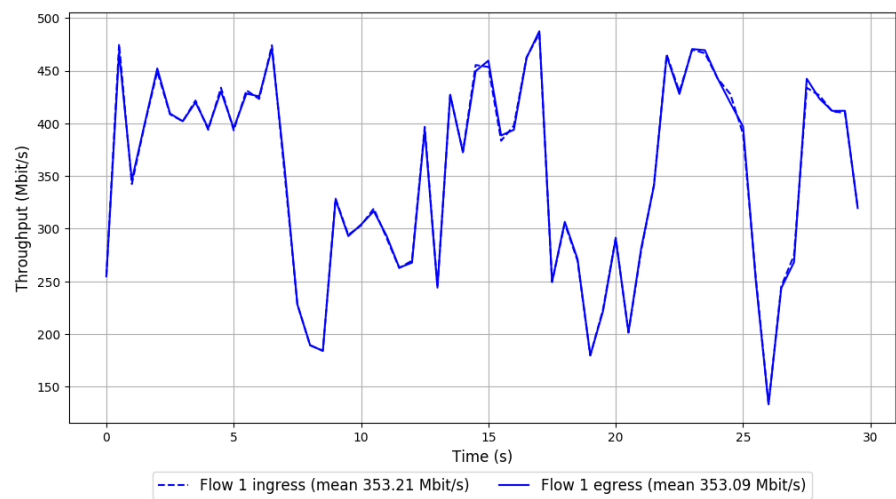


Run 3: Statistics of Verus

Start at: 2017-12-05 13:29:34
End at: 2017-12-05 13:30:04
Local clock offset: -0.144 ms
Remote clock offset: -0.172 ms

Below is generated by plot.py at 2017-12-05 18:38:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 353.09 Mbit/s
95th percentile per-packet one-way delay: 11.065 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 353.09 Mbit/s
95th percentile per-packet one-way delay: 11.065 ms
Loss rate: 0.03%

Run 3: Report of Verus — Data Link

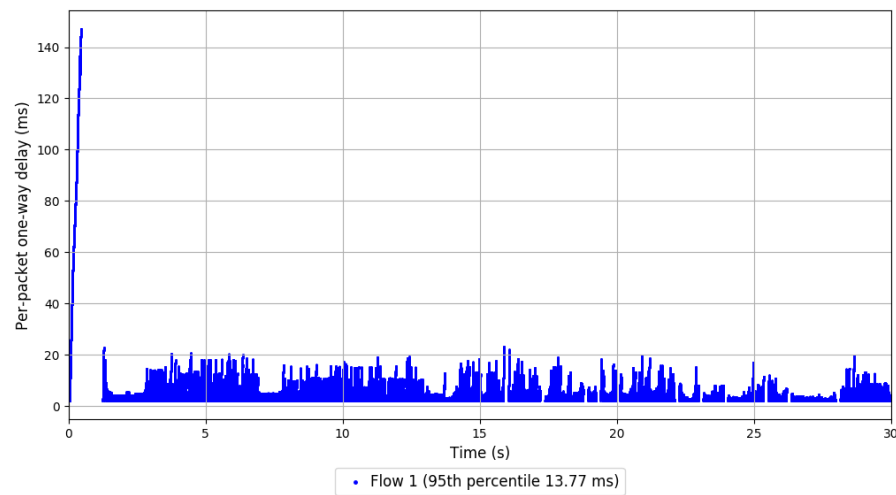
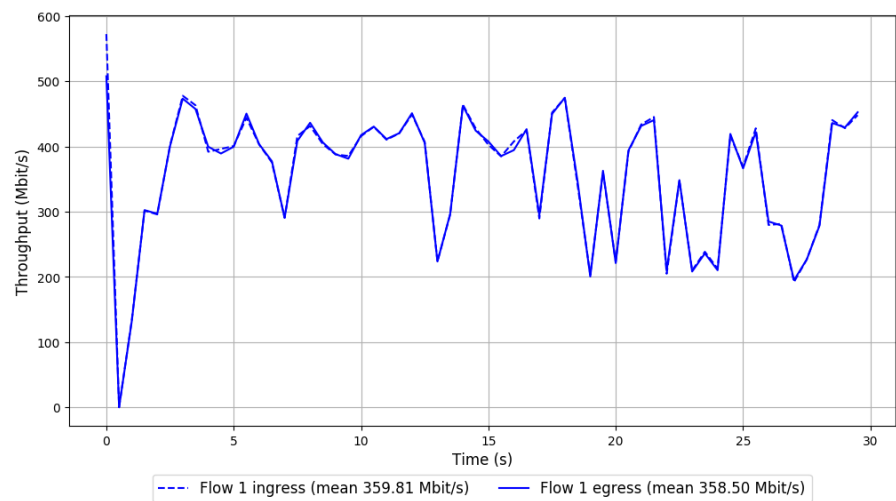


Run 4: Statistics of Verus

Start at: 2017-12-05 13:47:33
End at: 2017-12-05 13:48:03
Local clock offset: -0.137 ms
Remote clock offset: -0.205 ms

Below is generated by plot.py at 2017-12-05 18:38:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 358.50 Mbit/s
95th percentile per-packet one-way delay: 13.771 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 358.50 Mbit/s
95th percentile per-packet one-way delay: 13.771 ms
Loss rate: 0.36%

Run 4: Report of Verus — Data Link

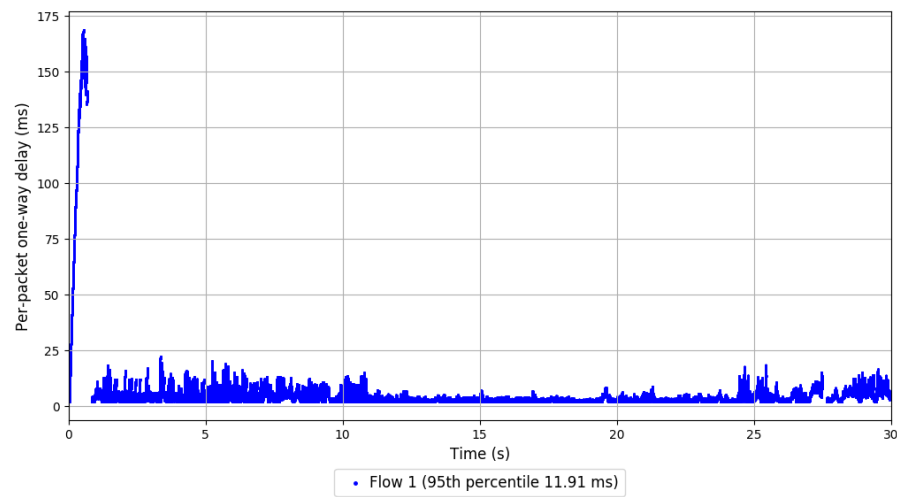
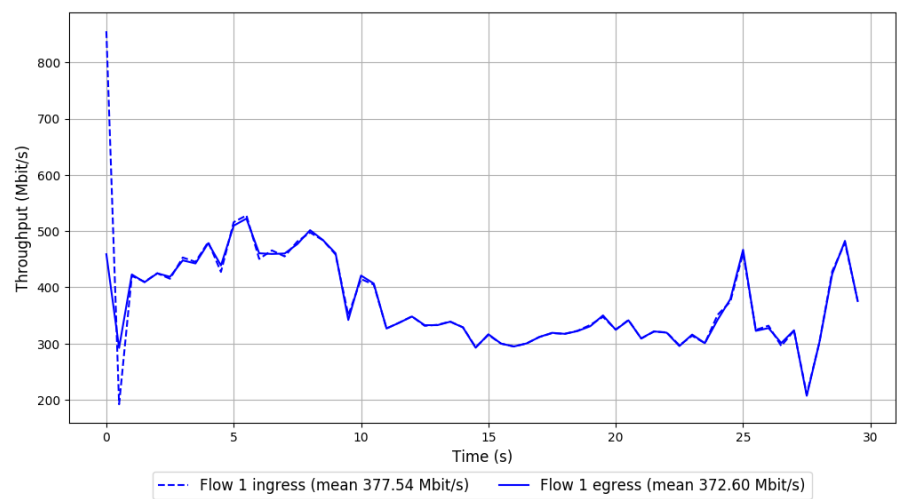


Run 5: Statistics of Verus

Start at: 2017-12-05 14:05:36
End at: 2017-12-05 14:06:06
Local clock offset: -0.08 ms
Remote clock offset: -0.119 ms

Below is generated by plot.py at 2017-12-05 18:40:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 372.60 Mbit/s
95th percentile per-packet one-way delay: 11.913 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 372.60 Mbit/s
95th percentile per-packet one-way delay: 11.913 ms
Loss rate: 1.30%

Run 5: Report of Verus — Data Link

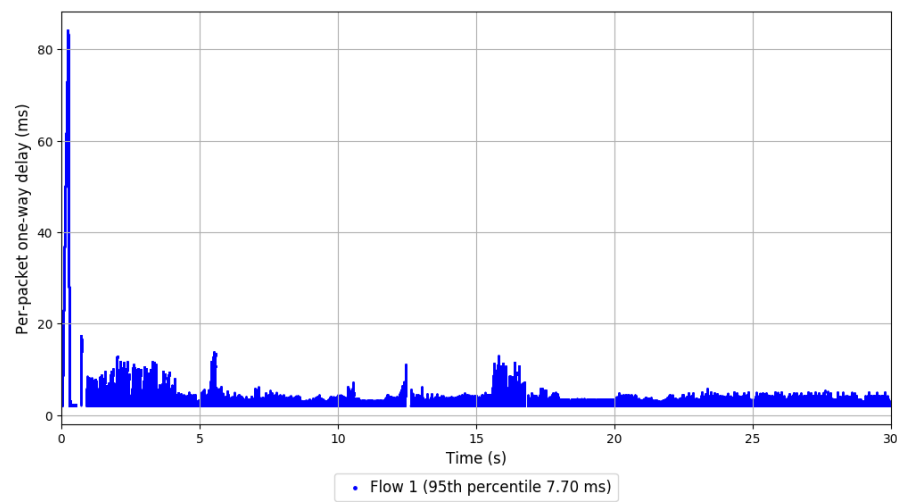
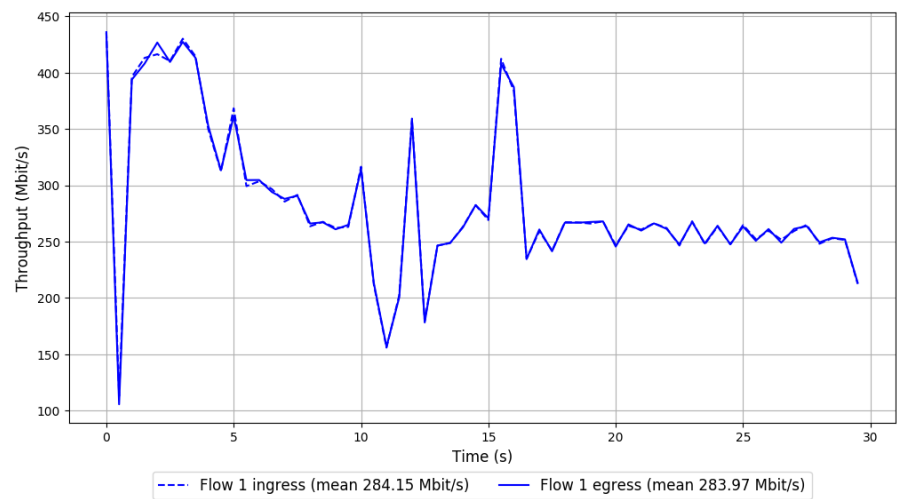


Run 6: Statistics of Verus

Start at: 2017-12-05 14:23:42
End at: 2017-12-05 14:24:12
Local clock offset: -0.024 ms
Remote clock offset: -0.172 ms

Below is generated by plot.py at 2017-12-05 18:40:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 283.97 Mbit/s
95th percentile per-packet one-way delay: 7.702 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 283.97 Mbit/s
95th percentile per-packet one-way delay: 7.702 ms
Loss rate: 0.06%

Run 6: Report of Verus — Data Link

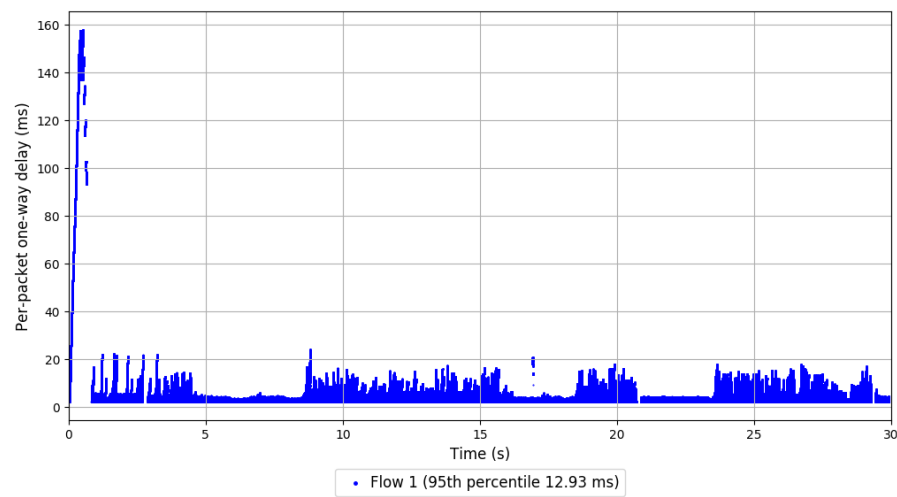
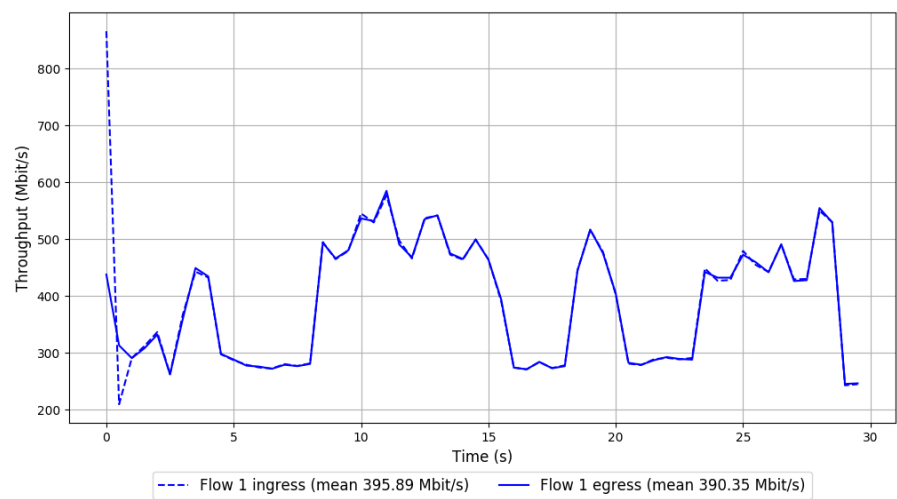


Run 7: Statistics of Verus

Start at: 2017-12-05 14:41:37
End at: 2017-12-05 14:42:07
Local clock offset: -0.017 ms
Remote clock offset: -0.122 ms

Below is generated by plot.py at 2017-12-05 18:40:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 390.35 Mbit/s
95th percentile per-packet one-way delay: 12.931 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 390.35 Mbit/s
95th percentile per-packet one-way delay: 12.931 ms
Loss rate: 1.40%

Run 7: Report of Verus — Data Link

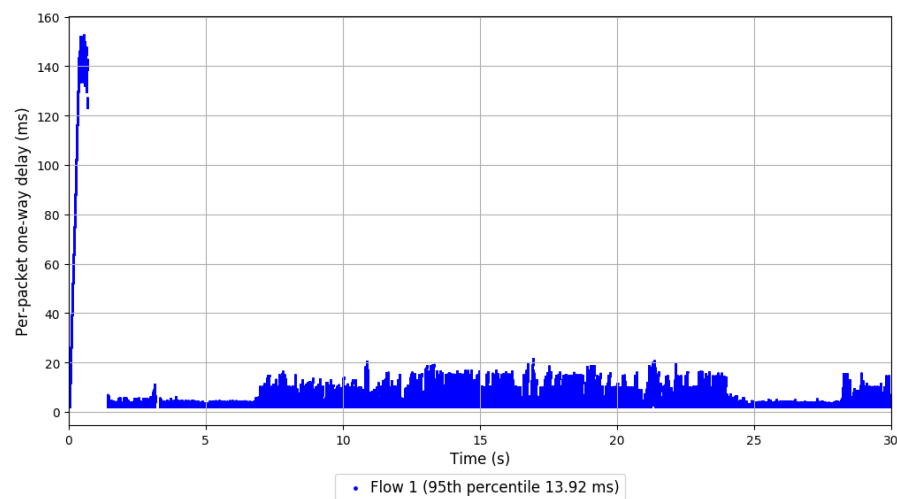
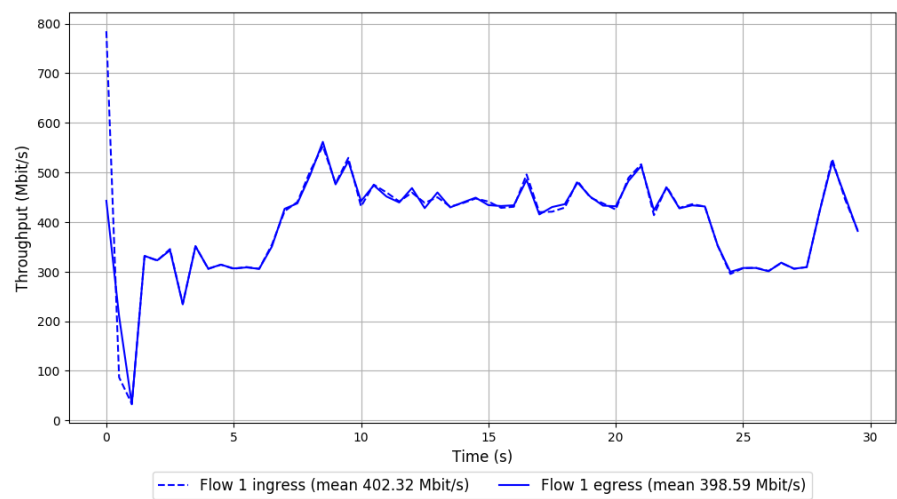


Run 8: Statistics of Verus

Start at: 2017-12-05 14:59:40
End at: 2017-12-05 15:00:10
Local clock offset: 0.17 ms
Remote clock offset: -0.118 ms

Below is generated by plot.py at 2017-12-05 18:43:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 398.59 Mbit/s
95th percentile per-packet one-way delay: 13.921 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 398.59 Mbit/s
95th percentile per-packet one-way delay: 13.921 ms
Loss rate: 0.92%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-12-05 15:17:39

End at: 2017-12-05 15:18:09

Local clock offset: 0.273 ms

Remote clock offset: -0.13 ms

Below is generated by plot.py at 2017-12-05 18:44:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 439.73 Mbit/s

95th percentile per-packet one-way delay: 13.015 ms

Loss rate: 0.01%

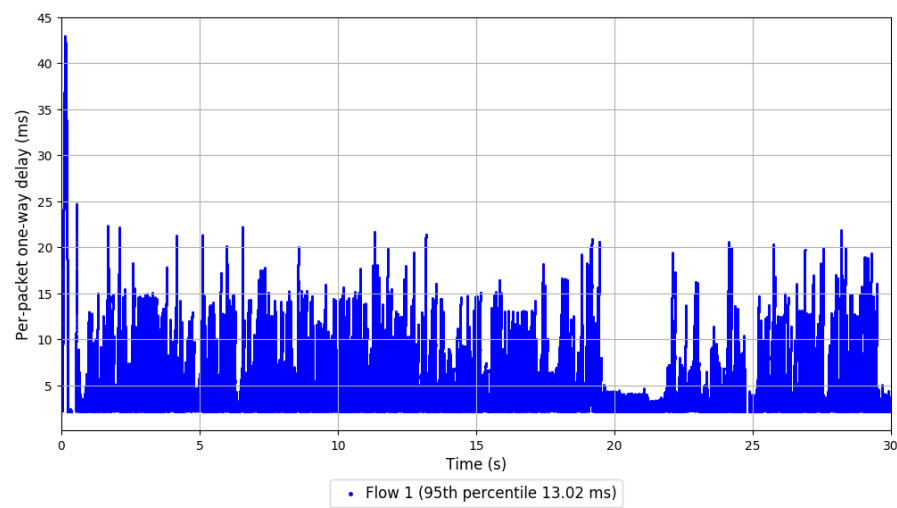
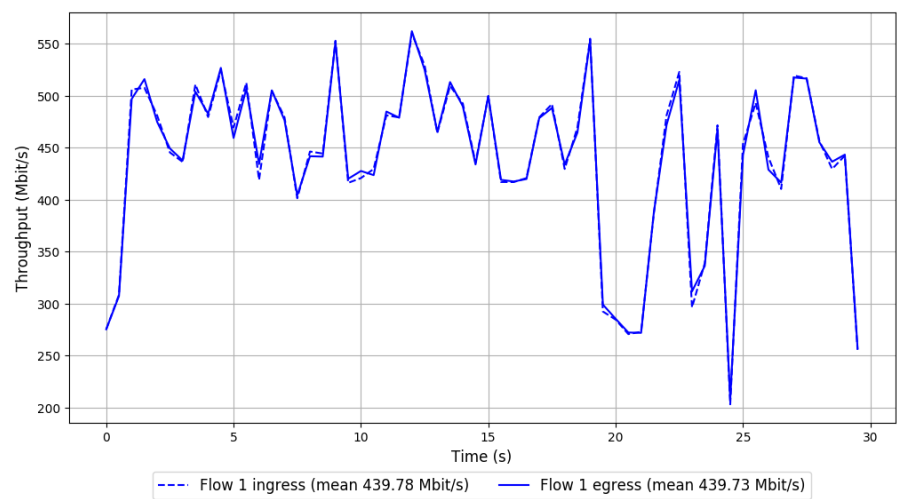
-- Flow 1:

Average throughput: 439.73 Mbit/s

95th percentile per-packet one-way delay: 13.015 ms

Loss rate: 0.01%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

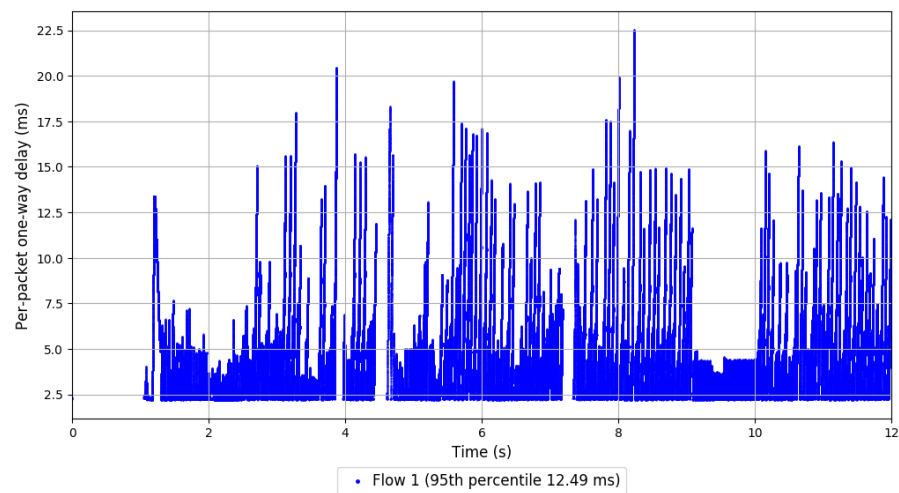
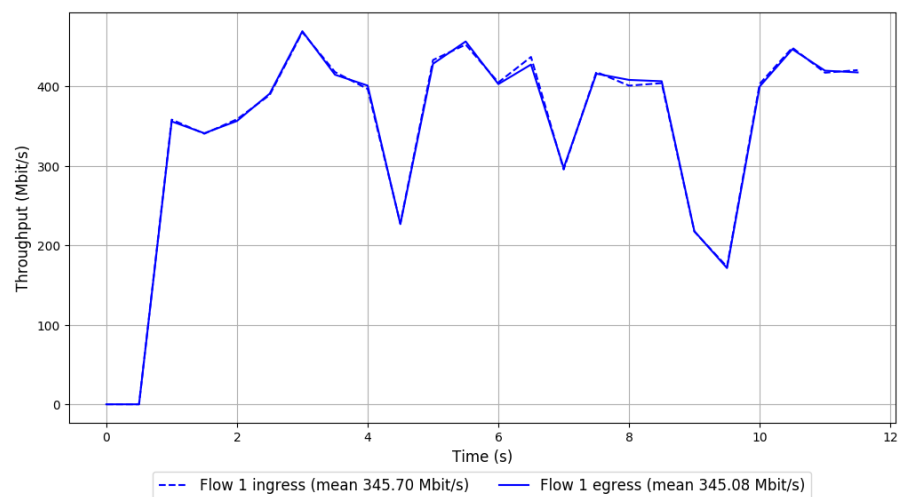
Start at: 2017-12-05 15:35:36

End at: 2017-12-05 15:36:06

Local clock offset: 0.189 ms

Remote clock offset: -0.121 ms

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-12-05 12:59:20

End at: 2017-12-05 12:59:50

Local clock offset: -0.186 ms

Remote clock offset: 0.013 ms

Below is generated by plot.py at 2017-12-05 18:44:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 110.07 Mbit/s

95th percentile per-packet one-way delay: 2.225 ms

Loss rate: 0.00%

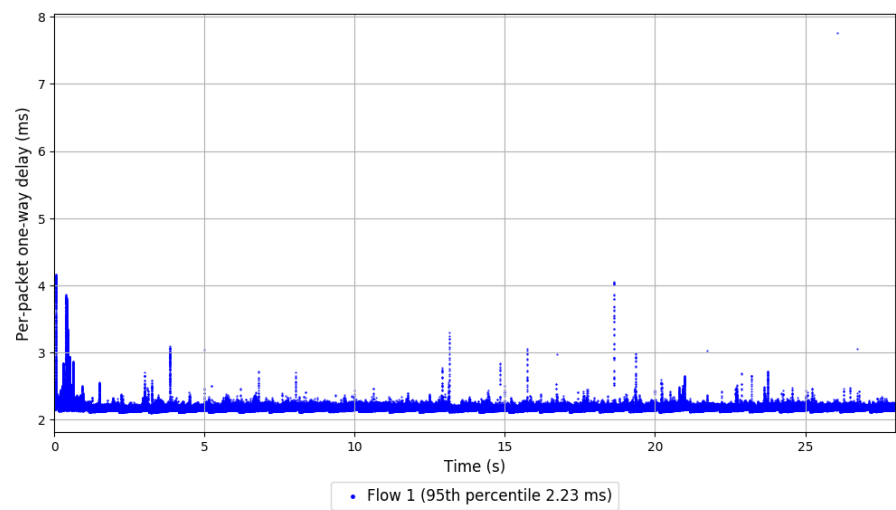
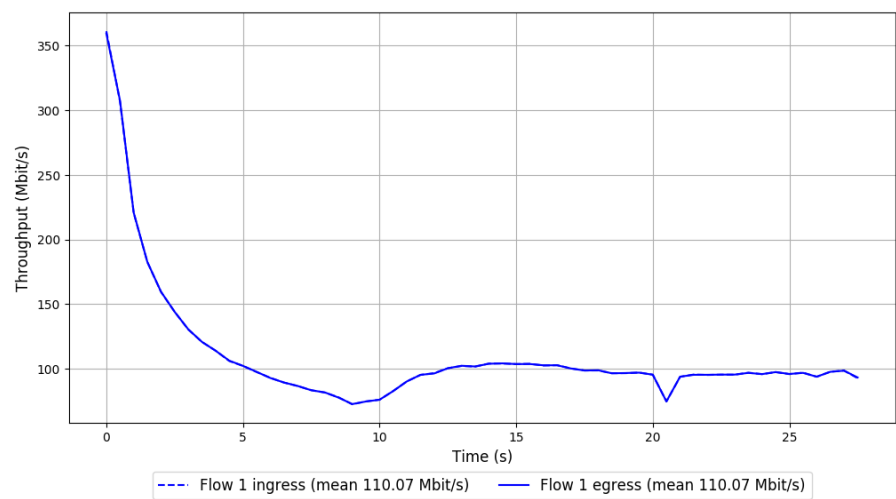
-- Flow 1:

Average throughput: 110.07 Mbit/s

95th percentile per-packet one-way delay: 2.225 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link

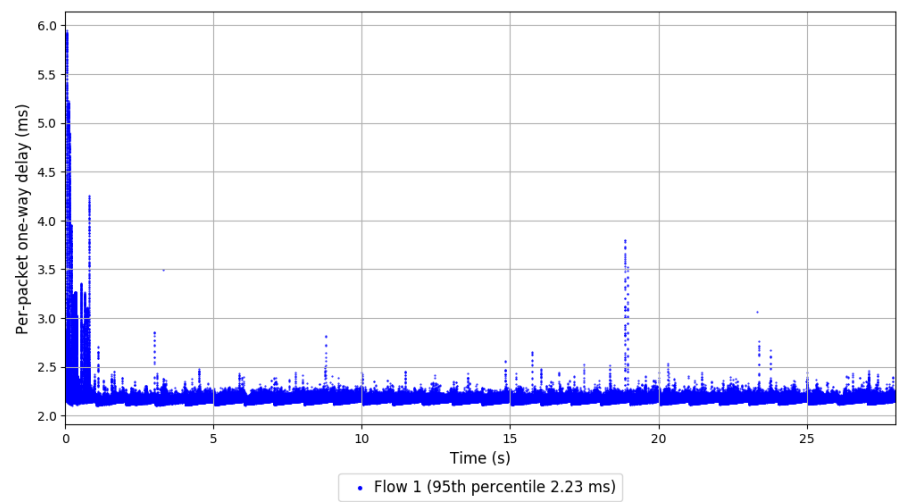
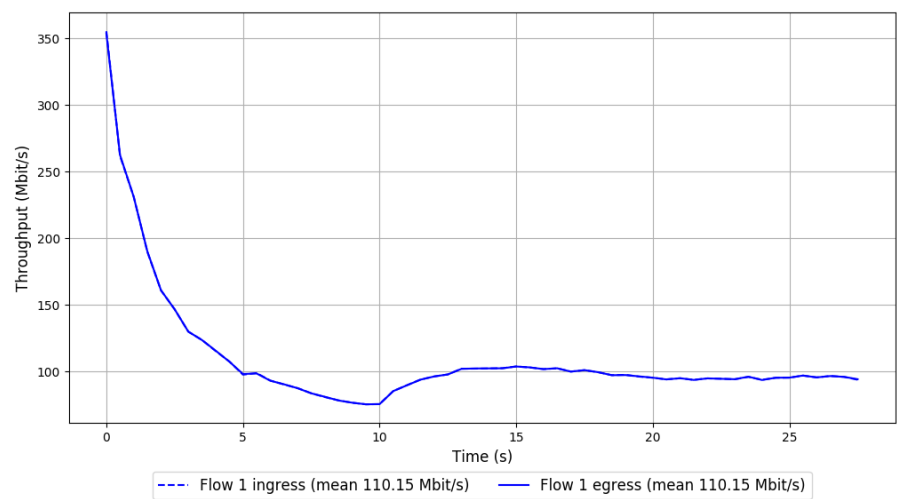


Run 2: Statistics of Copa

Start at: 2017-12-05 13:17:23
End at: 2017-12-05 13:17:53
Local clock offset: -0.162 ms
Remote clock offset: -0.087 ms

Below is generated by plot.py at 2017-12-05 18:44:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 110.15 Mbit/s
95th percentile per-packet one-way delay: 2.231 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 110.15 Mbit/s
95th percentile per-packet one-way delay: 2.231 ms
Loss rate: 0.00%

Run 2: Report of Copa — Data Link

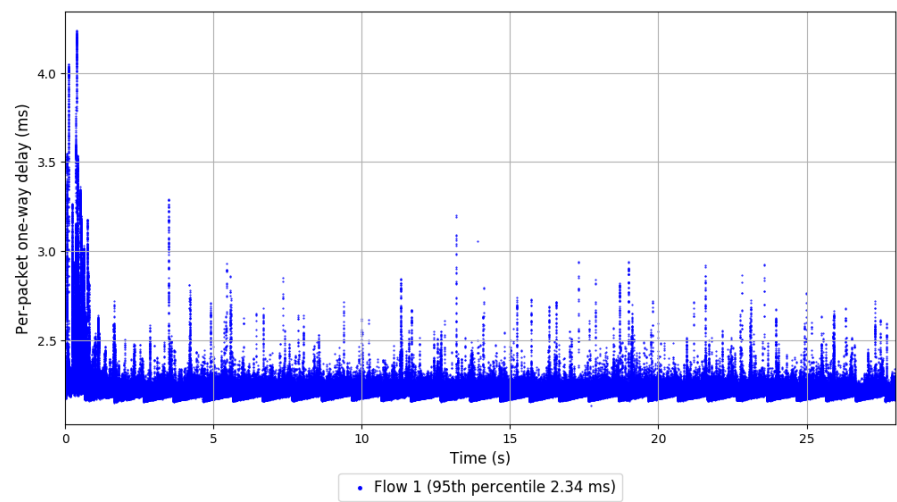
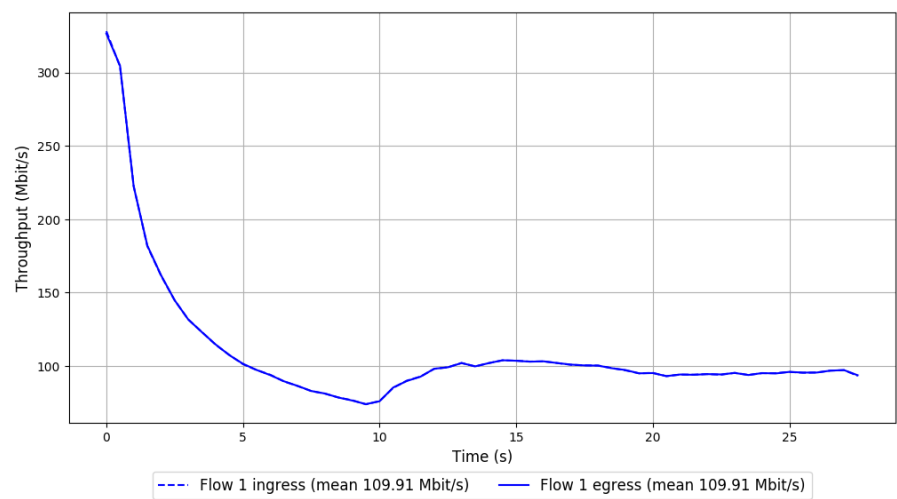


Run 3: Statistics of Copa

Start at: 2017-12-05 13:35:24
End at: 2017-12-05 13:35:54
Local clock offset: -0.173 ms
Remote clock offset: -0.138 ms

Below is generated by plot.py at 2017-12-05 18:44:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 109.91 Mbit/s
95th percentile per-packet one-way delay: 2.338 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 109.91 Mbit/s
95th percentile per-packet one-way delay: 2.338 ms
Loss rate: 0.00%

Run 3: Report of Copa — Data Link

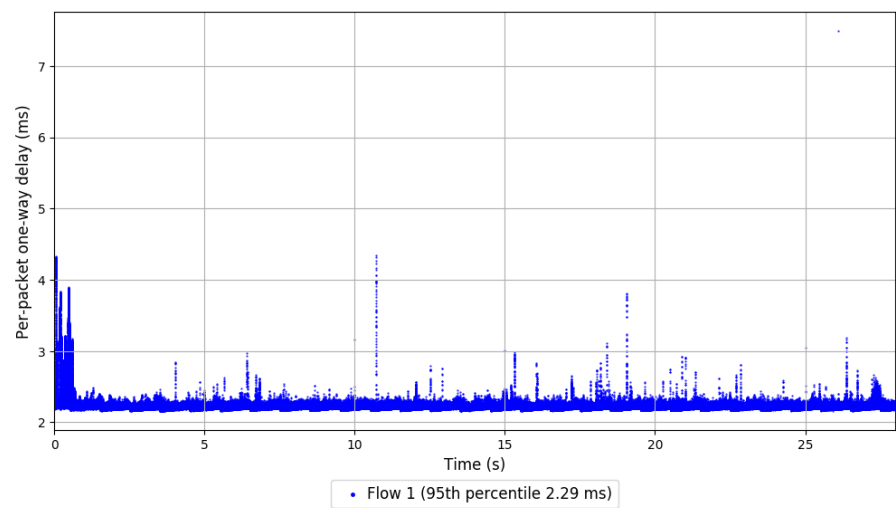
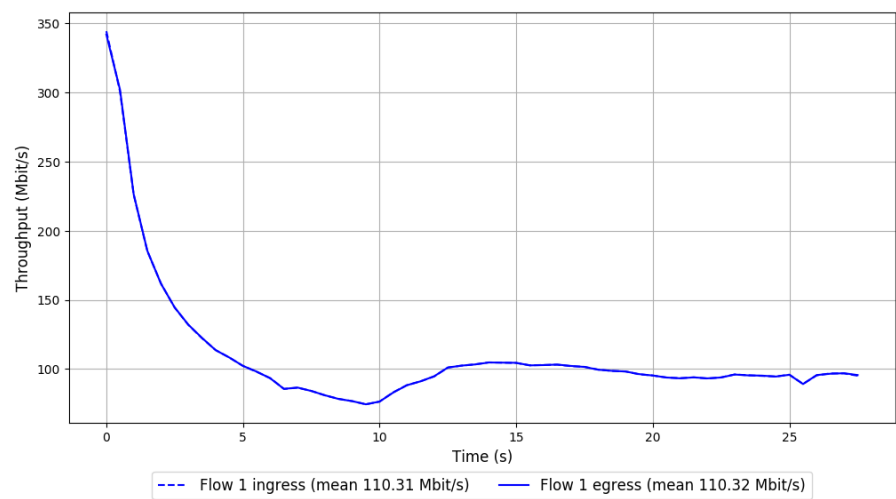


Run 4: Statistics of Copa

Start at: 2017-12-05 13:53:25
End at: 2017-12-05 13:53:55
Local clock offset: -0.143 ms
Remote clock offset: -0.125 ms

Below is generated by plot.py at 2017-12-05 18:44:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 110.32 Mbit/s
95th percentile per-packet one-way delay: 2.289 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 110.32 Mbit/s
95th percentile per-packet one-way delay: 2.289 ms
Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-12-05 14:11:29

End at: 2017-12-05 14:11:59

Local clock offset: -0.07 ms

Remote clock offset: -0.12 ms

Below is generated by plot.py at 2017-12-05 18:44:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 110.12 Mbit/s

95th percentile per-packet one-way delay: 2.235 ms

Loss rate: 0.00%

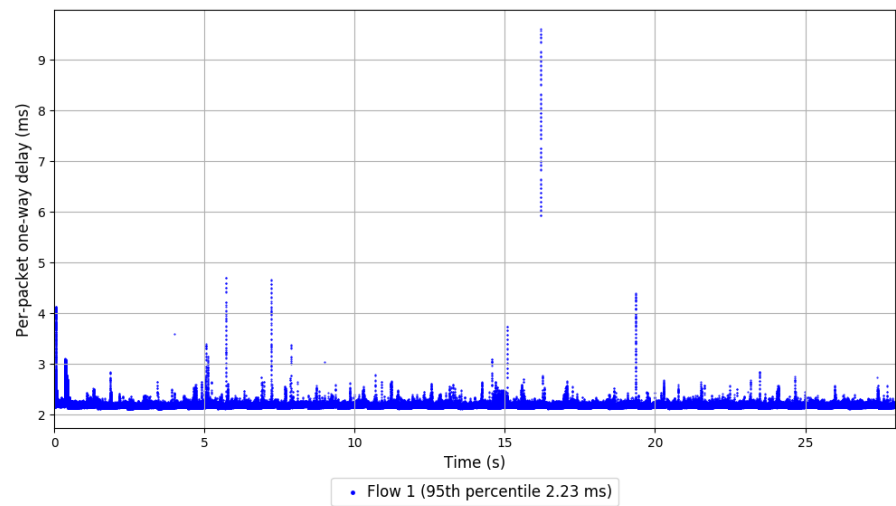
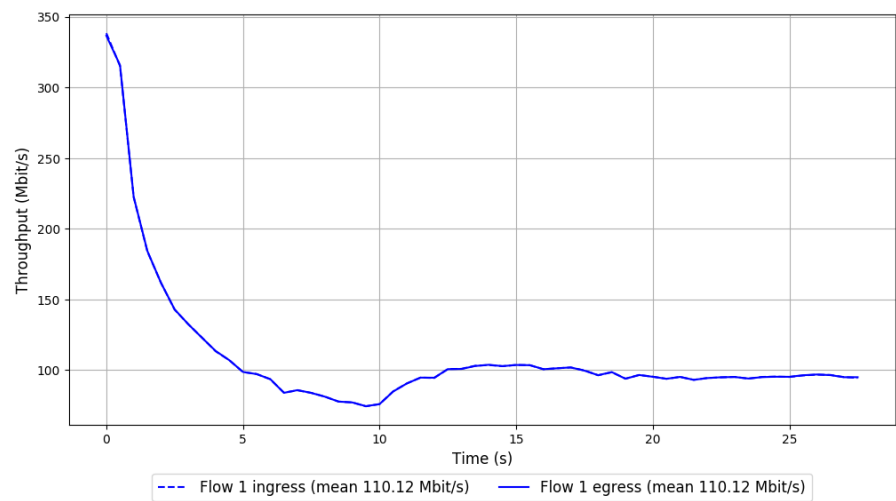
-- Flow 1:

Average throughput: 110.12 Mbit/s

95th percentile per-packet one-way delay: 2.235 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link

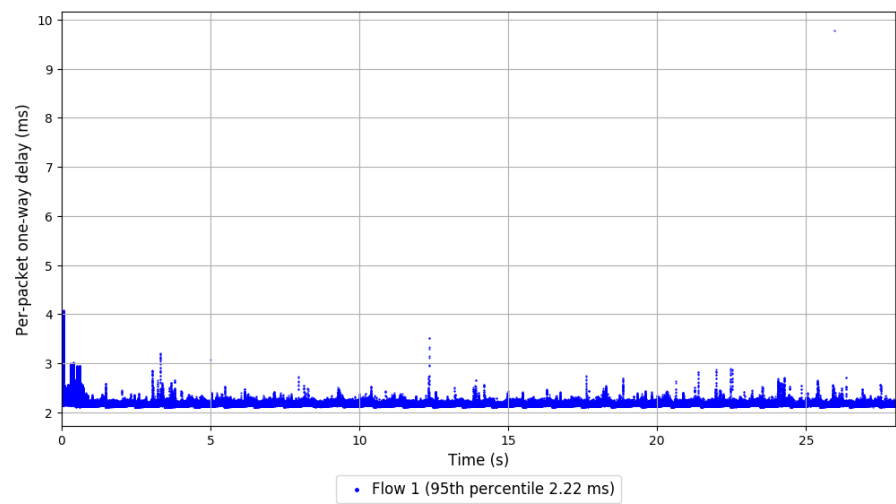
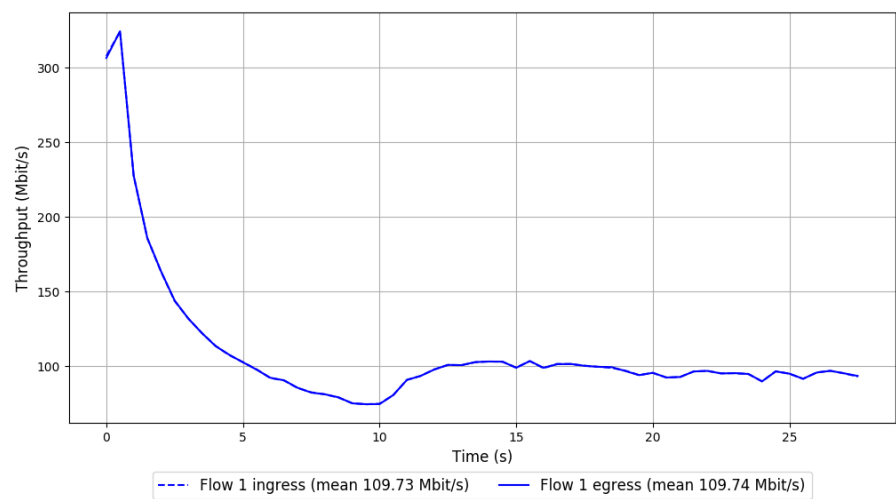


Run 6: Statistics of Copa

Start at: 2017-12-05 14:29:30
End at: 2017-12-05 14:30:00
Local clock offset: -0.006 ms
Remote clock offset: -0.126 ms

Below is generated by plot.py at 2017-12-05 18:44:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 109.74 Mbit/s
95th percentile per-packet one-way delay: 2.224 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 109.74 Mbit/s
95th percentile per-packet one-way delay: 2.224 ms
Loss rate: 0.00%

Run 6: Report of Copa — Data Link

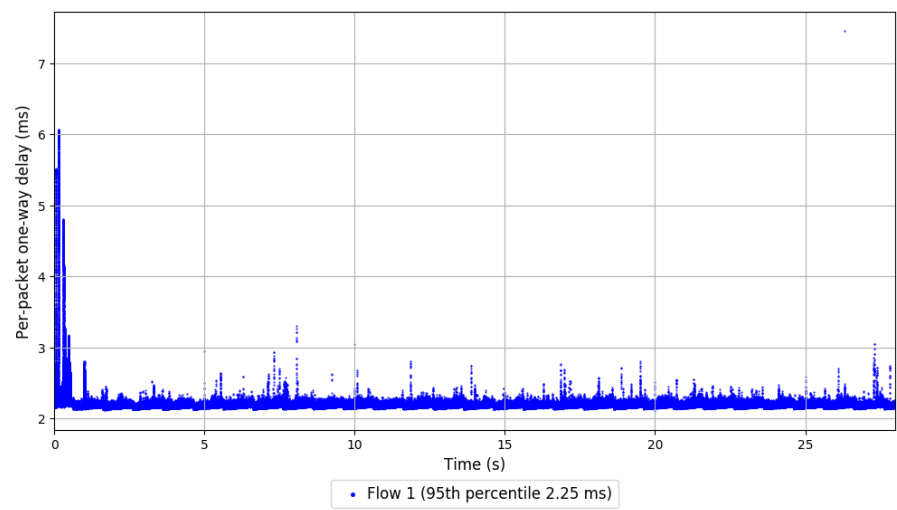
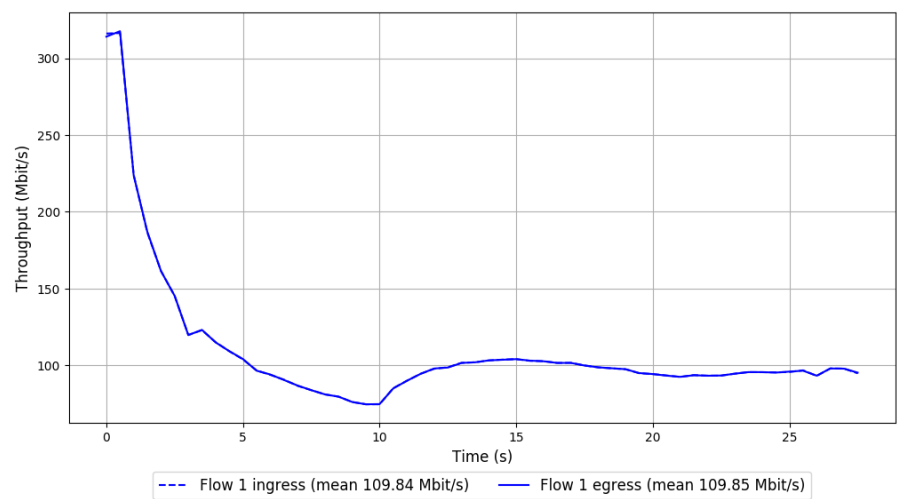


Run 7: Statistics of Copa

Start at: 2017-12-05 14:47:30
End at: 2017-12-05 14:48:00
Local clock offset: 0.079 ms
Remote clock offset: -0.112 ms

Below is generated by plot.py at 2017-12-05 18:44:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 109.85 Mbit/s
95th percentile per-packet one-way delay: 2.255 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 109.85 Mbit/s
95th percentile per-packet one-way delay: 2.255 ms
Loss rate: 0.00%

Run 7: Report of Copa — Data Link

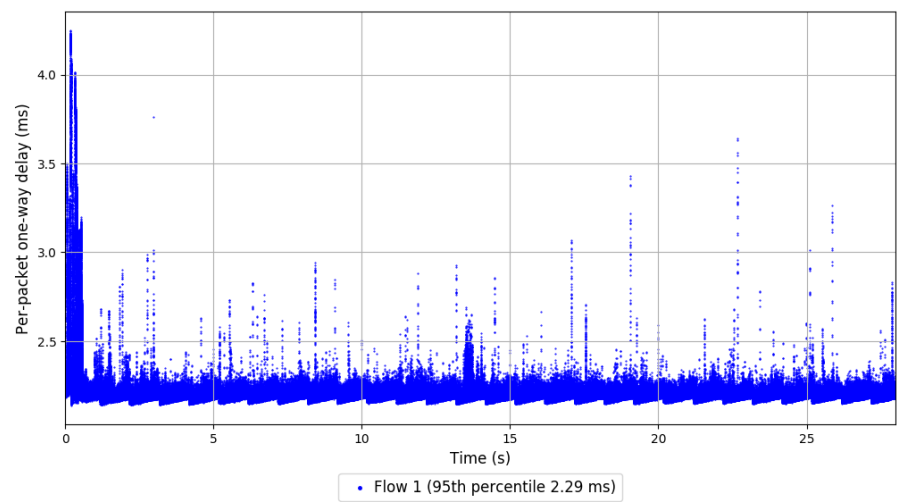
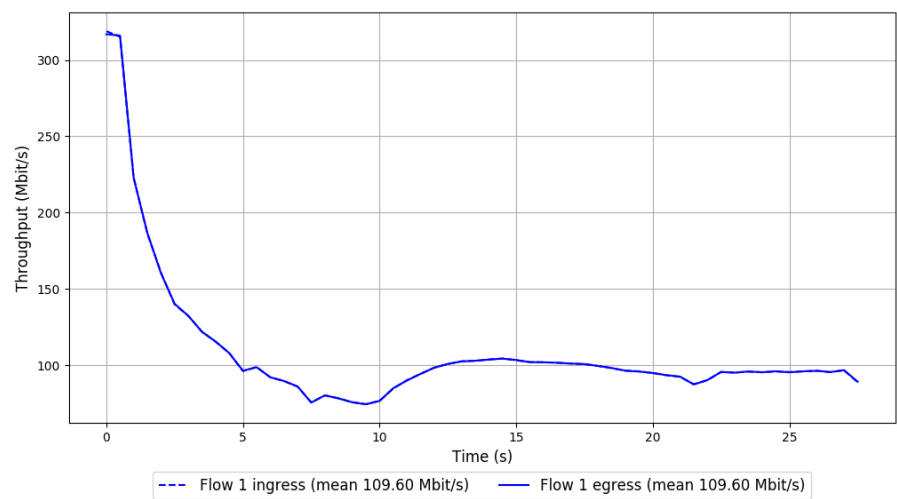


Run 8: Statistics of Copa

Start at: 2017-12-05 15:05:35
End at: 2017-12-05 15:06:05
Local clock offset: 0.209 ms
Remote clock offset: -0.105 ms

Below is generated by plot.py at 2017-12-05 18:44:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 109.60 Mbit/s
95th percentile per-packet one-way delay: 2.288 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 109.60 Mbit/s
95th percentile per-packet one-way delay: 2.288 ms
Loss rate: 0.00%

Run 8: Report of Copa — Data Link

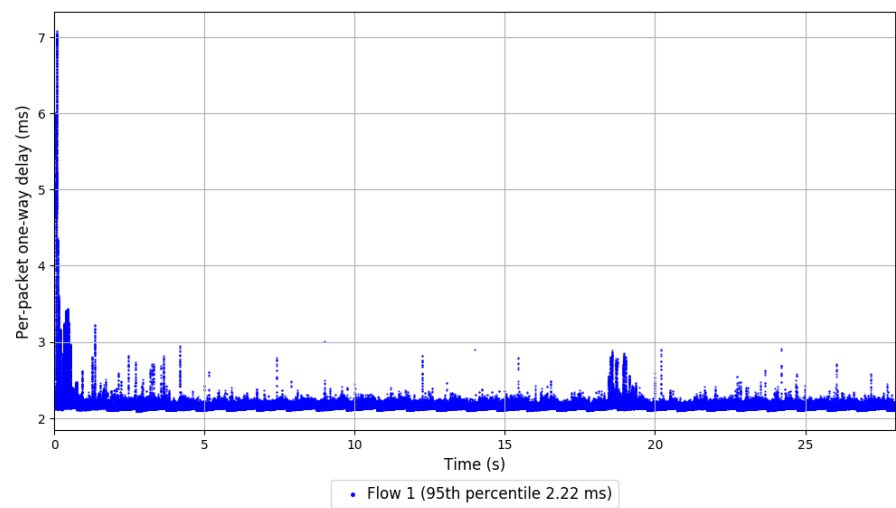
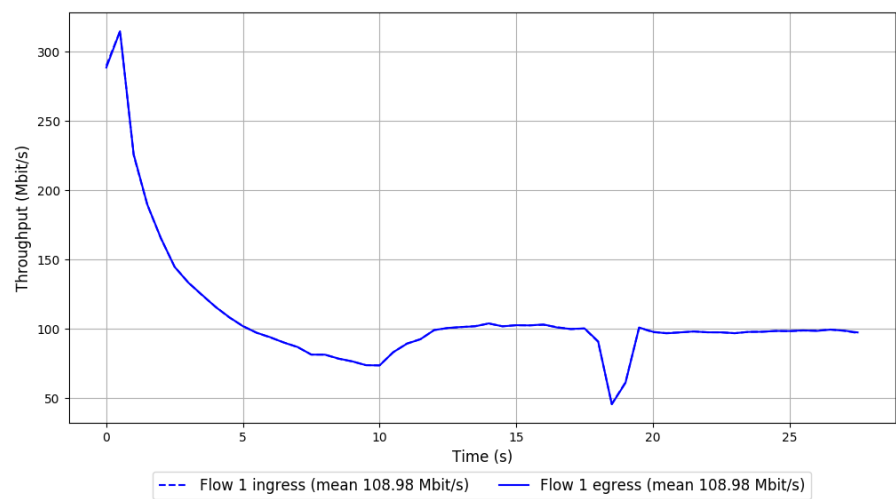


Run 9: Statistics of Copa

Start at: 2017-12-05 15:23:32
End at: 2017-12-05 15:24:02
Local clock offset: 0.271 ms
Remote clock offset: -0.133 ms

Below is generated by plot.py at 2017-12-05 18:44:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 108.98 Mbit/s
95th percentile per-packet one-way delay: 2.218 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 108.98 Mbit/s
95th percentile per-packet one-way delay: 2.218 ms
Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-12-05 15:41:36

End at: 2017-12-05 15:42:06

Local clock offset: 0.253 ms

Remote clock offset: -0.101 ms

Below is generated by plot.py at 2017-12-05 18:45:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 109.42 Mbit/s

95th percentile per-packet one-way delay: 2.249 ms

Loss rate: 0.00%

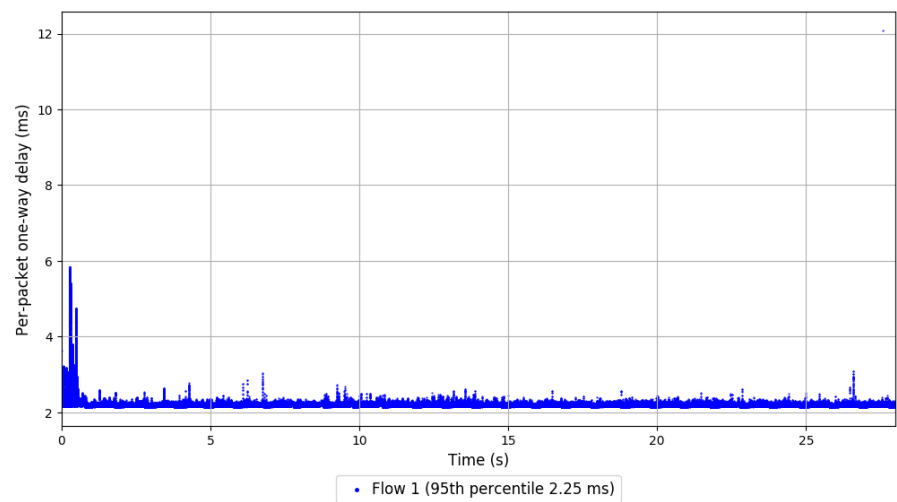
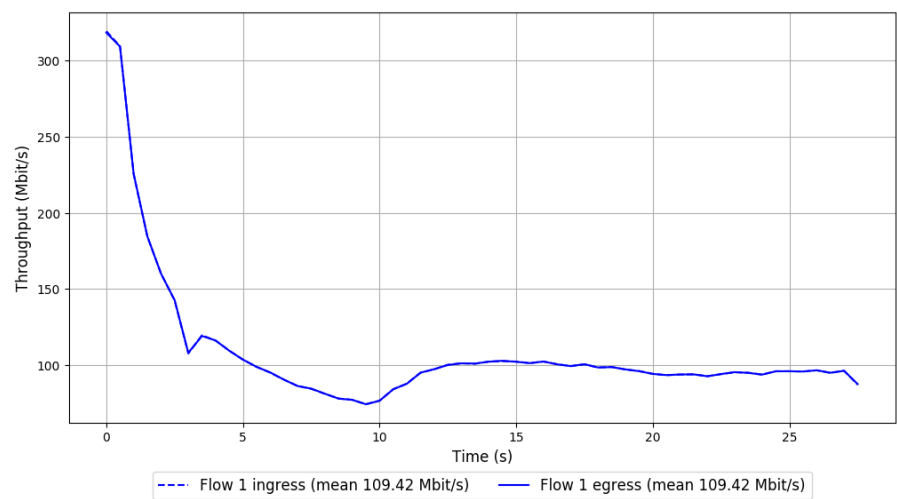
-- Flow 1:

Average throughput: 109.42 Mbit/s

95th percentile per-packet one-way delay: 2.249 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

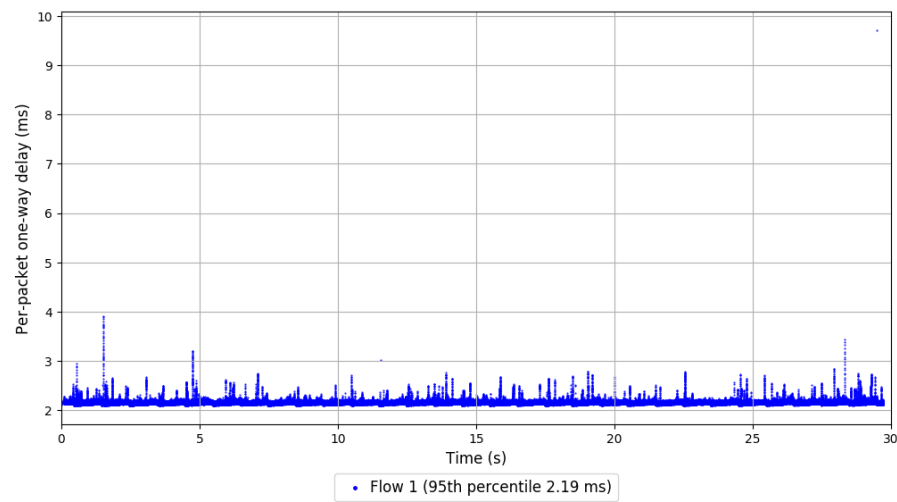
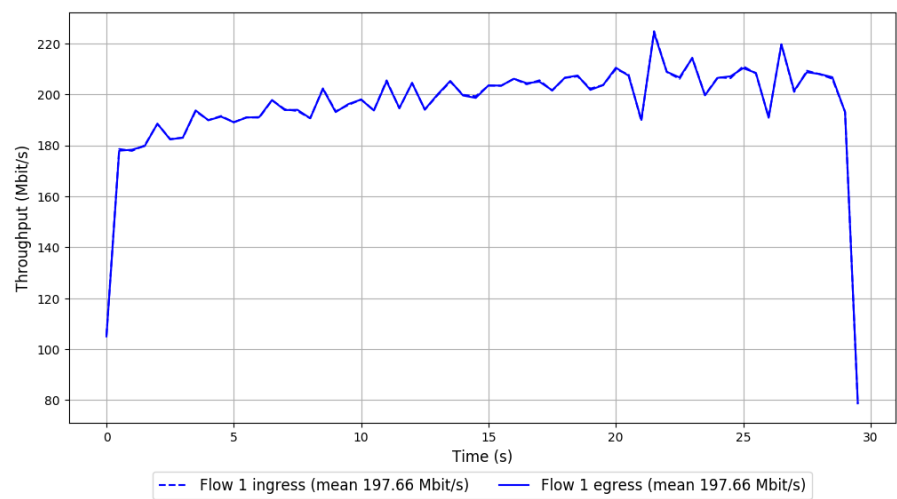


```
Run 1: Statistics of Indigo

Start at: 2017-12-05 12:55:58
End at: 2017-12-05 12:56:28
Local clock offset: -0.225 ms
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2017-12-05 18:46:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 197.66 Mbit/s
95th percentile per-packet one-way delay: 2.186 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 197.66 Mbit/s
95th percentile per-packet one-way delay: 2.186 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

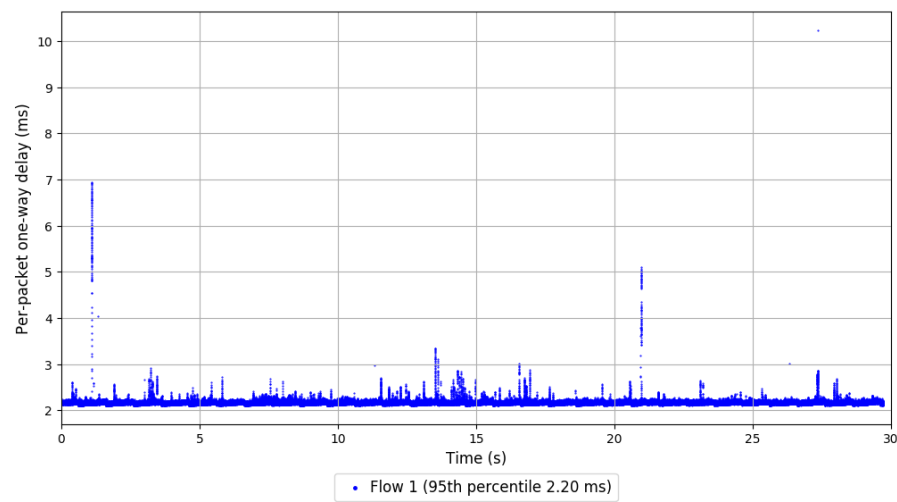
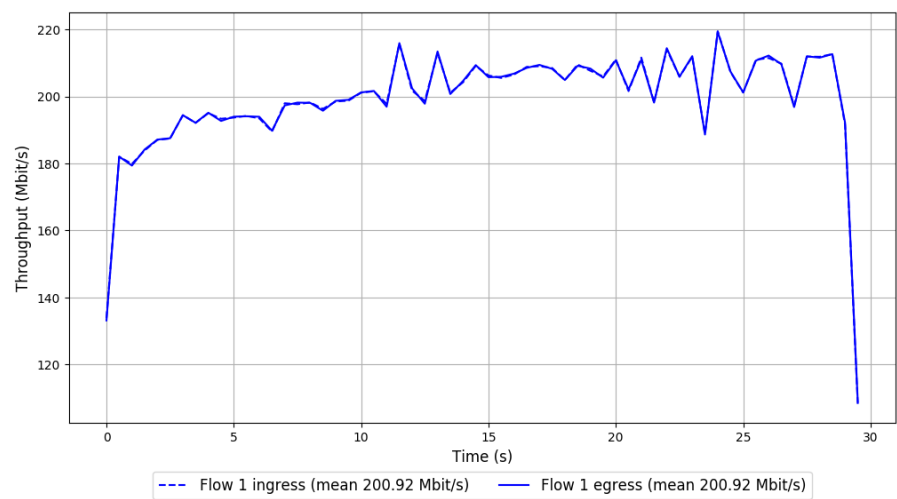


Run 2: Statistics of Indigo

Start at: 2017-12-05 13:14:01
End at: 2017-12-05 13:14:31
Local clock offset: -0.145 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2017-12-05 18:46:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 200.92 Mbit/s
95th percentile per-packet one-way delay: 2.202 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 200.92 Mbit/s
95th percentile per-packet one-way delay: 2.202 ms
Loss rate: 0.00%

Run 2: Report of Indigo — Data Link

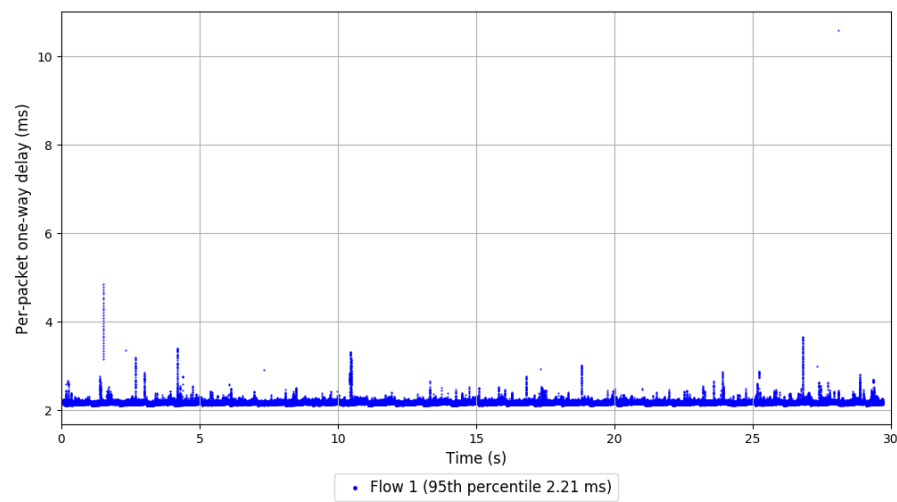
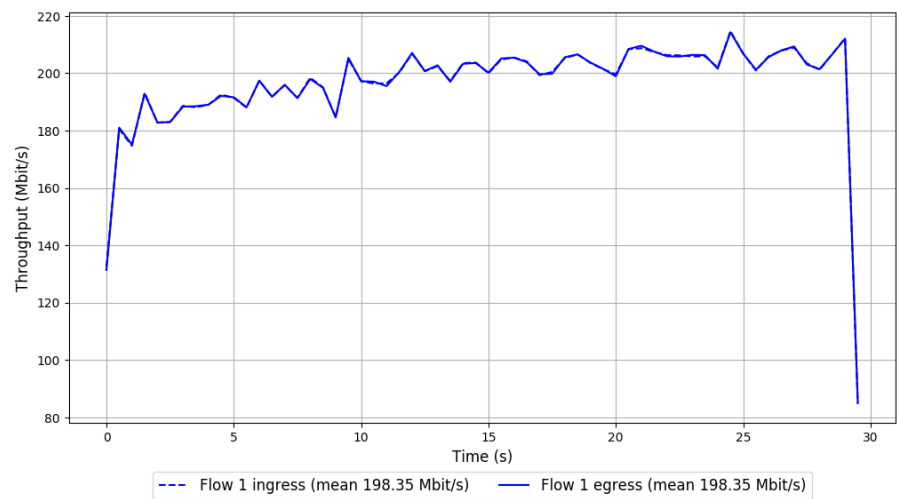


Run 3: Statistics of Indigo

Start at: 2017-12-05 13:32:02
End at: 2017-12-05 13:32:32
Local clock offset: -0.137 ms
Remote clock offset: -0.136 ms

Below is generated by plot.py at 2017-12-05 18:46:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 198.35 Mbit/s
95th percentile per-packet one-way delay: 2.207 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 198.35 Mbit/s
95th percentile per-packet one-way delay: 2.207 ms
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-12-05 13:50:03

End at: 2017-12-05 13:50:33

Local clock offset: -0.15 ms

Remote clock offset: -0.154 ms

Below is generated by plot.py at 2017-12-05 18:47:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.42 Mbit/s

95th percentile per-packet one-way delay: 2.235 ms

Loss rate: 0.00%

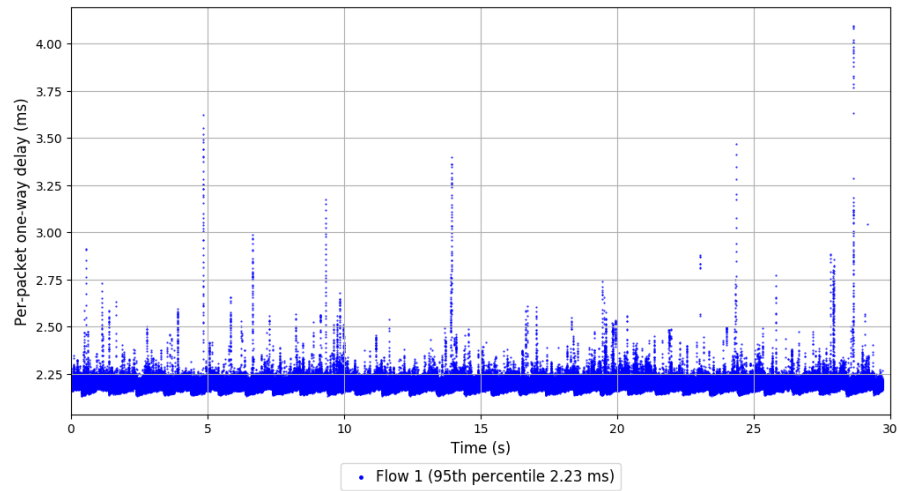
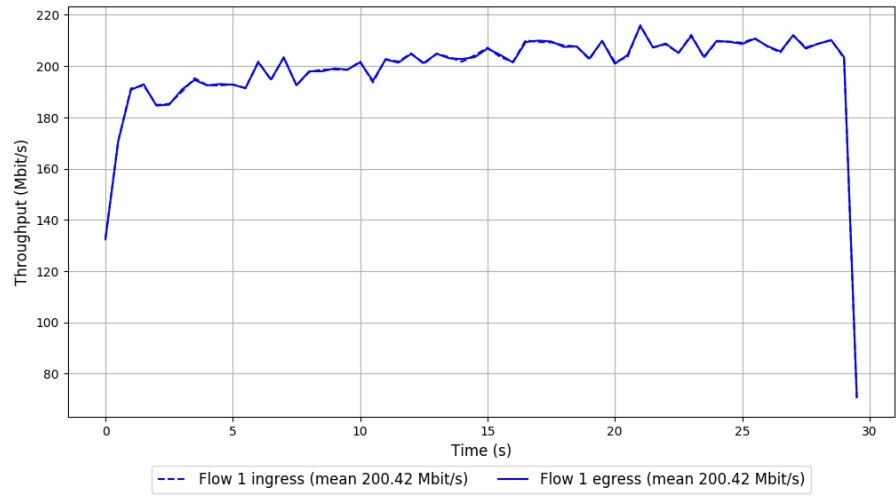
-- Flow 1:

Average throughput: 200.42 Mbit/s

95th percentile per-packet one-way delay: 2.235 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link

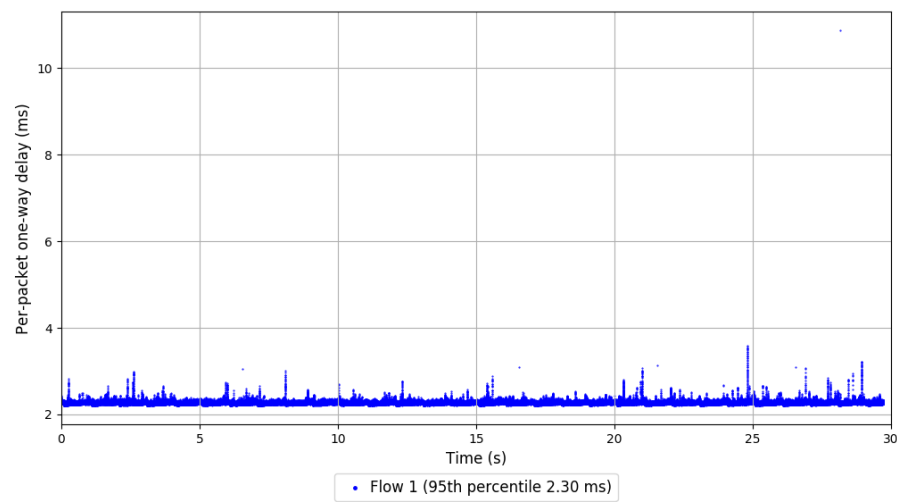
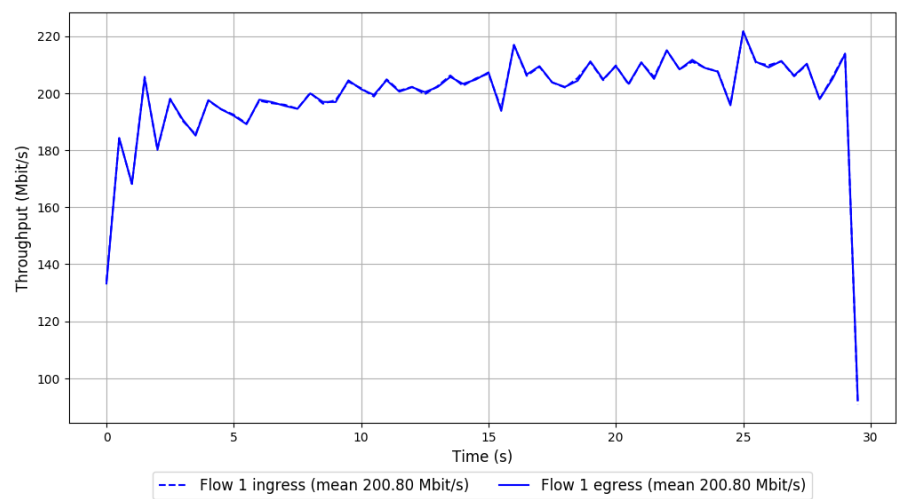


Run 5: Statistics of Indigo

Start at: 2017-12-05 14:08:07
End at: 2017-12-05 14:08:37
Local clock offset: -0.146 ms
Remote clock offset: -0.104 ms

Below is generated by plot.py at 2017-12-05 18:47:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 200.80 Mbit/s
95th percentile per-packet one-way delay: 2.299 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 200.80 Mbit/s
95th percentile per-packet one-way delay: 2.299 ms
Loss rate: 0.00%

Run 5: Report of Indigo — Data Link

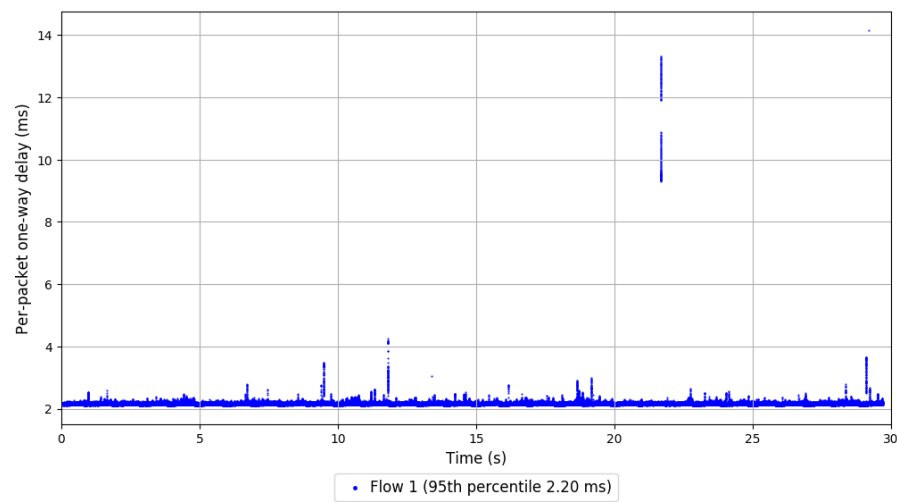
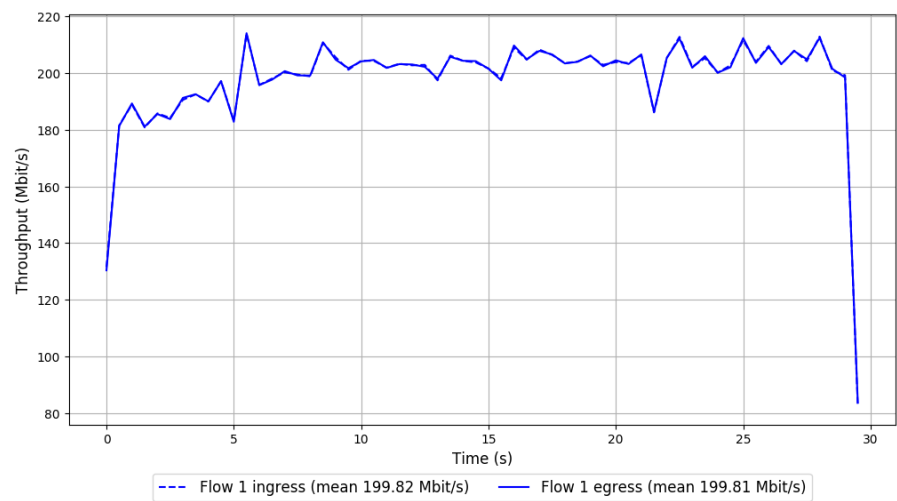


Run 6: Statistics of Indigo

Start at: 2017-12-05 14:26:09
End at: 2017-12-05 14:26:39
Local clock offset: -0.001 ms
Remote clock offset: -0.119 ms

Below is generated by plot.py at 2017-12-05 18:47:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 199.81 Mbit/s
95th percentile per-packet one-way delay: 2.199 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 199.81 Mbit/s
95th percentile per-packet one-way delay: 2.199 ms
Loss rate: 0.00%

Run 6: Report of Indigo — Data Link

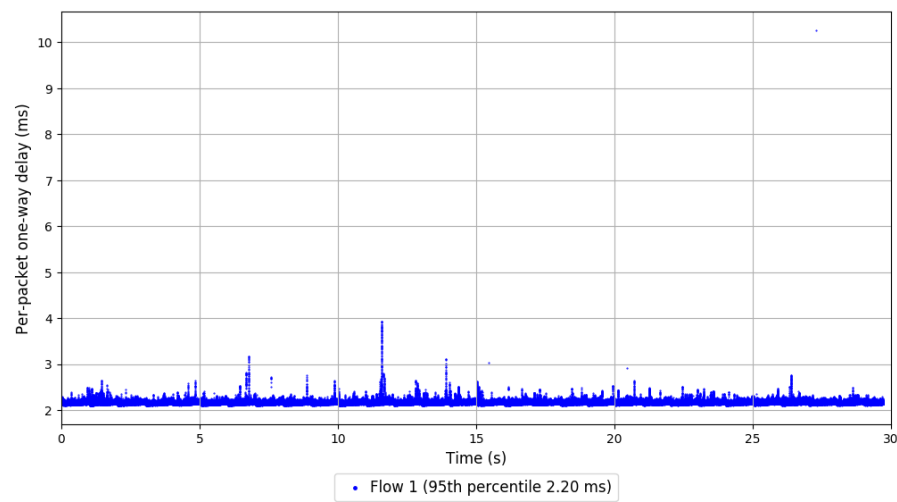
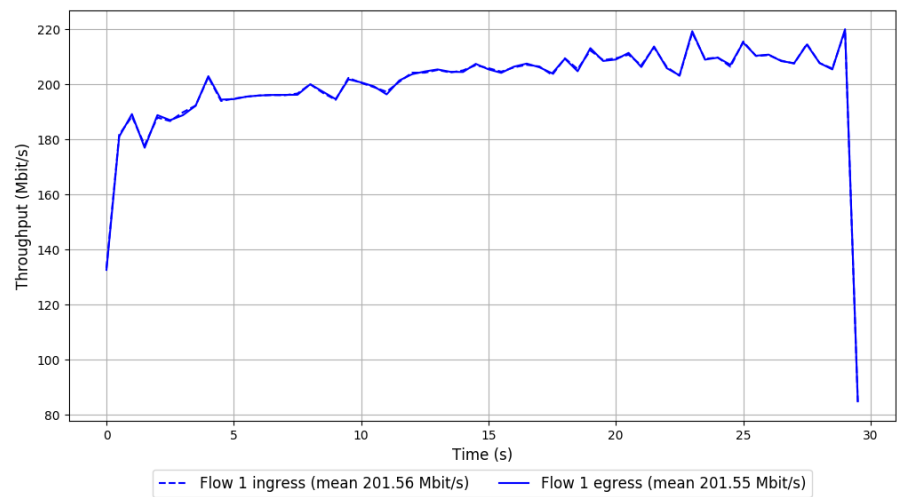


Run 7: Statistics of Indigo

Start at: 2017-12-05 14:44:08
End at: 2017-12-05 14:44:38
Local clock offset: 0.038 ms
Remote clock offset: -0.159 ms

Below is generated by plot.py at 2017-12-05 18:47:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 201.55 Mbit/s
95th percentile per-packet one-way delay: 2.204 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 201.55 Mbit/s
95th percentile per-packet one-way delay: 2.204 ms
Loss rate: 0.00%

Run 7: Report of Indigo — Data Link

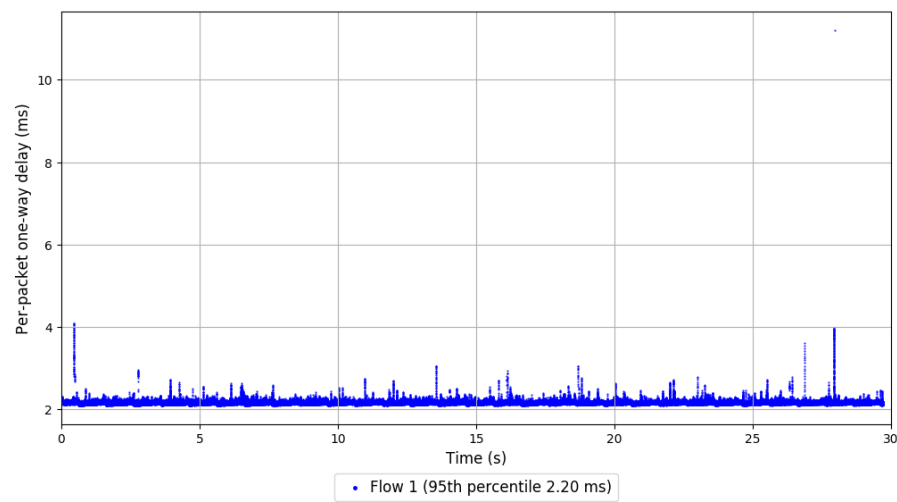
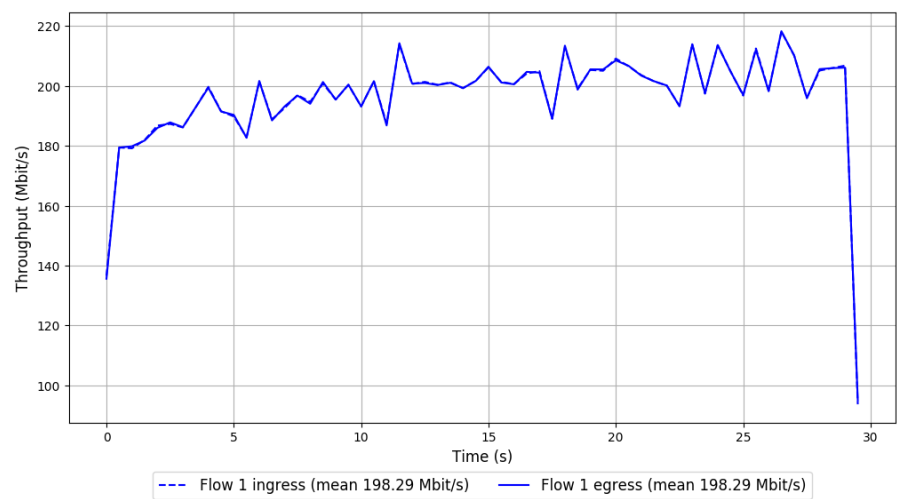


Run 8: Statistics of Indigo

Start at: 2017-12-05 15:02:13
End at: 2017-12-05 15:02:43
Local clock offset: 0.211 ms
Remote clock offset: -0.121 ms

Below is generated by plot.py at 2017-12-05 18:48:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 198.29 Mbit/s
95th percentile per-packet one-way delay: 2.199 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 198.29 Mbit/s
95th percentile per-packet one-way delay: 2.199 ms
Loss rate: 0.00%

Run 8: Report of Indigo — Data Link

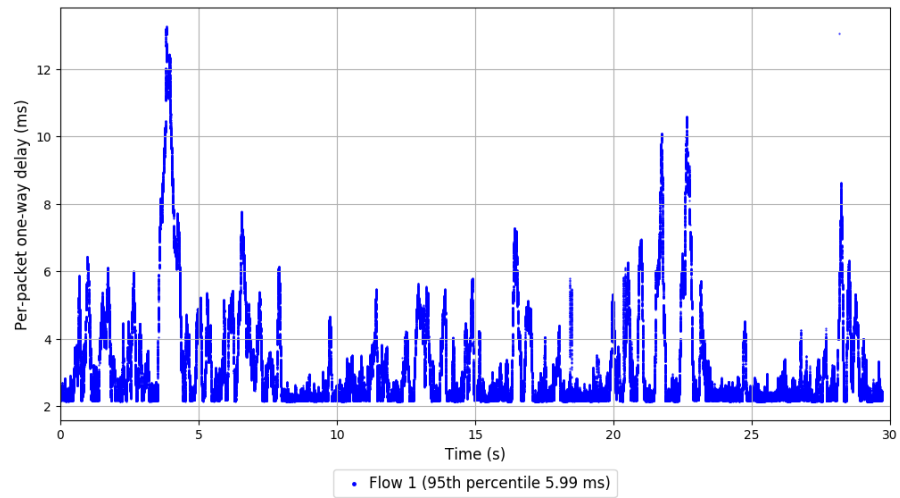
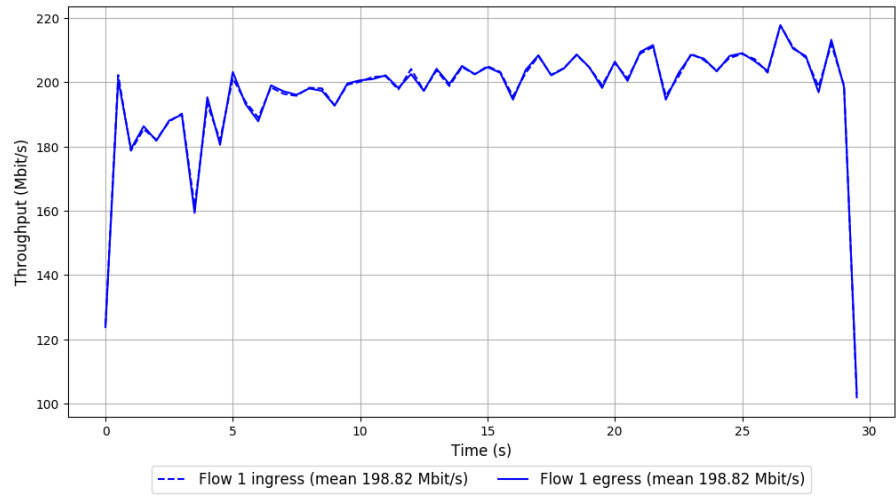


Run 9: Statistics of Indigo

Start at: 2017-12-05 15:20:11
End at: 2017-12-05 15:20:41
Local clock offset: 0.192 ms
Remote clock offset: -0.186 ms

Below is generated by plot.py at 2017-12-05 18:48:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 198.82 Mbit/s
95th percentile per-packet one-way delay: 5.992 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 198.82 Mbit/s
95th percentile per-packet one-way delay: 5.992 ms
Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-12-05 15:37:54

End at: 2017-12-05 15:38:24

Local clock offset: 0.232 ms

Remote clock offset: -0.096 ms

Below is generated by plot.py at 2017-12-05 18:48:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.01 Mbit/s

95th percentile per-packet one-way delay: 2.267 ms

Loss rate: 0.00%

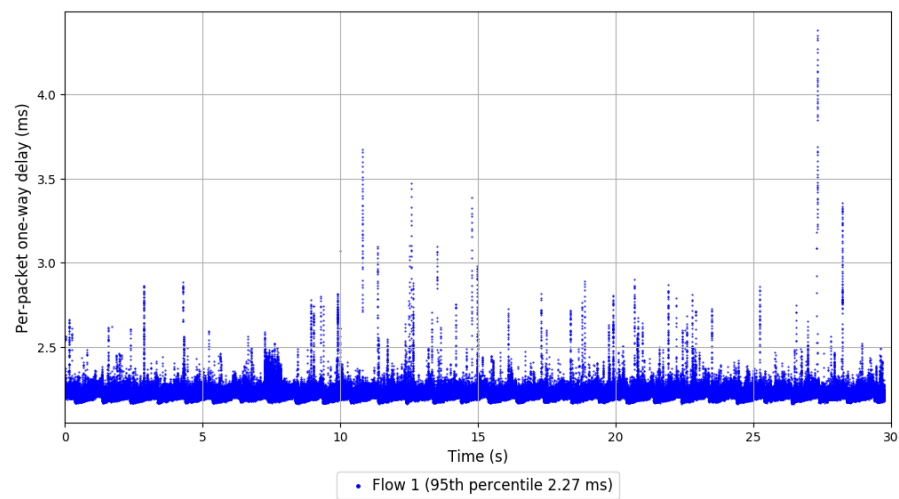
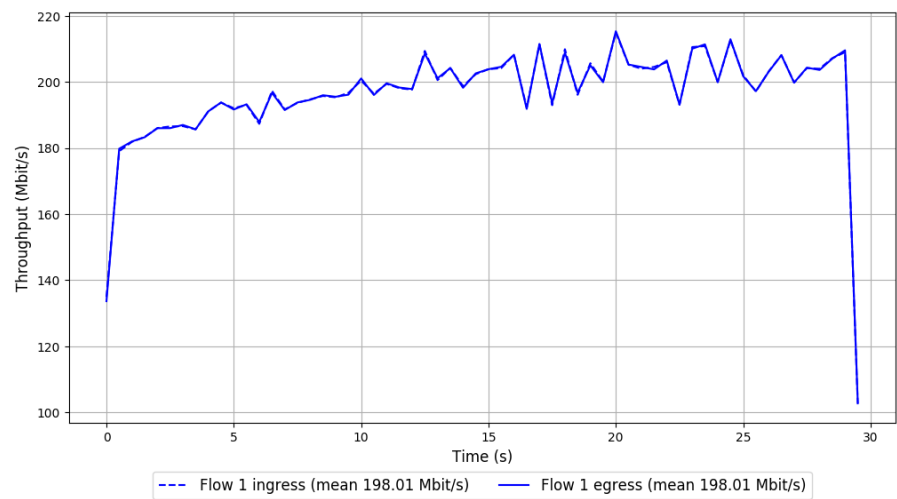
-- Flow 1:

Average throughput: 198.01 Mbit/s

95th percentile per-packet one-way delay: 2.267 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

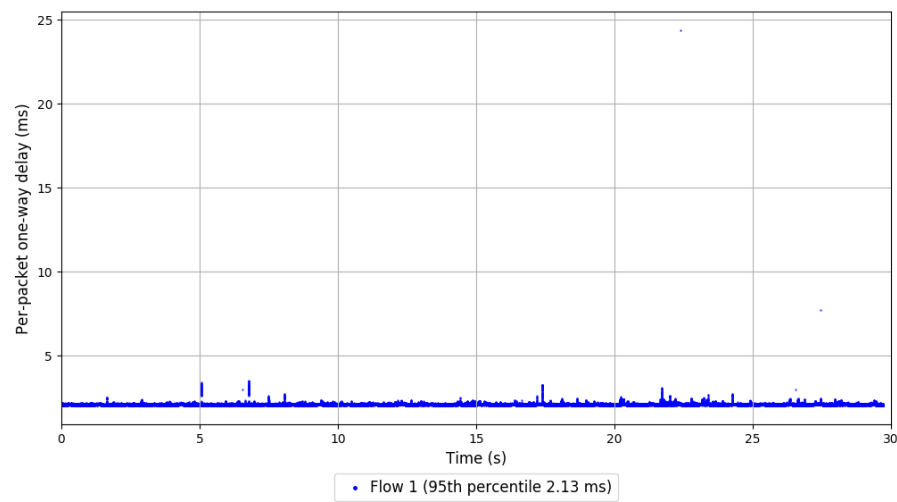
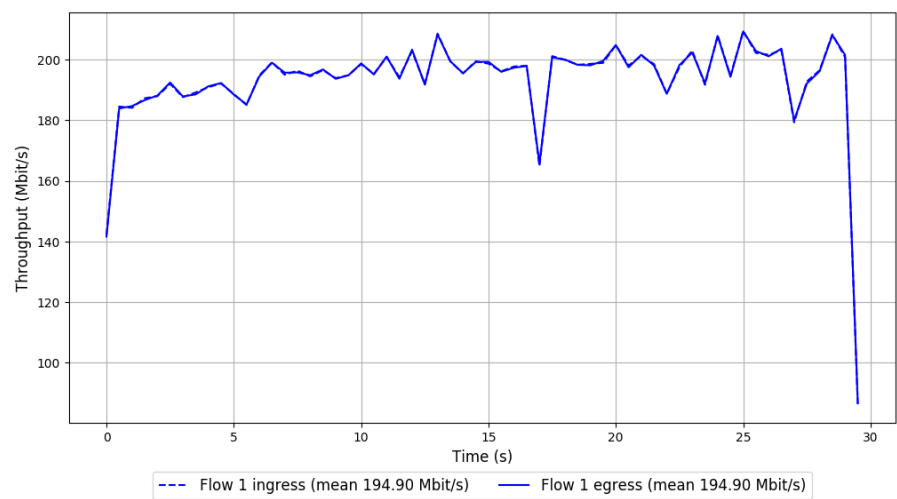


```
Run 1: Statistics of Indigo-calib

Start at: 2017-12-05 13:06:01
End at: 2017-12-05 13:06:32
Local clock offset: -0.153 ms
Remote clock offset: -0.085 ms

# Below is generated by plot.py at 2017-12-05 18:48:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 194.90 Mbit/s
95th percentile per-packet one-way delay: 2.132 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 194.90 Mbit/s
95th percentile per-packet one-way delay: 2.132 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-calib — Data Link



Run 2: Statistics of Indigo-calib

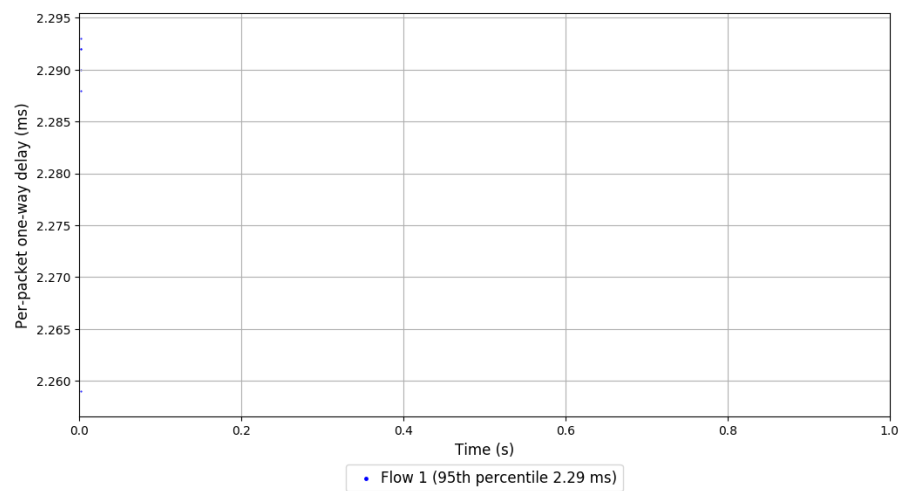
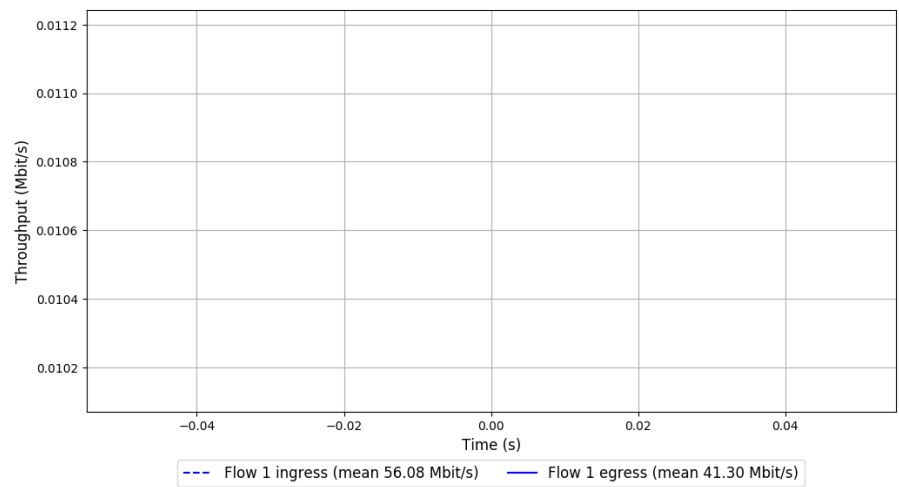
Start at: 2017-12-05 13:24:10

End at: 2017-12-05 13:24:40

Local clock offset: -0.15 ms

Remote clock offset: -0.099 ms

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

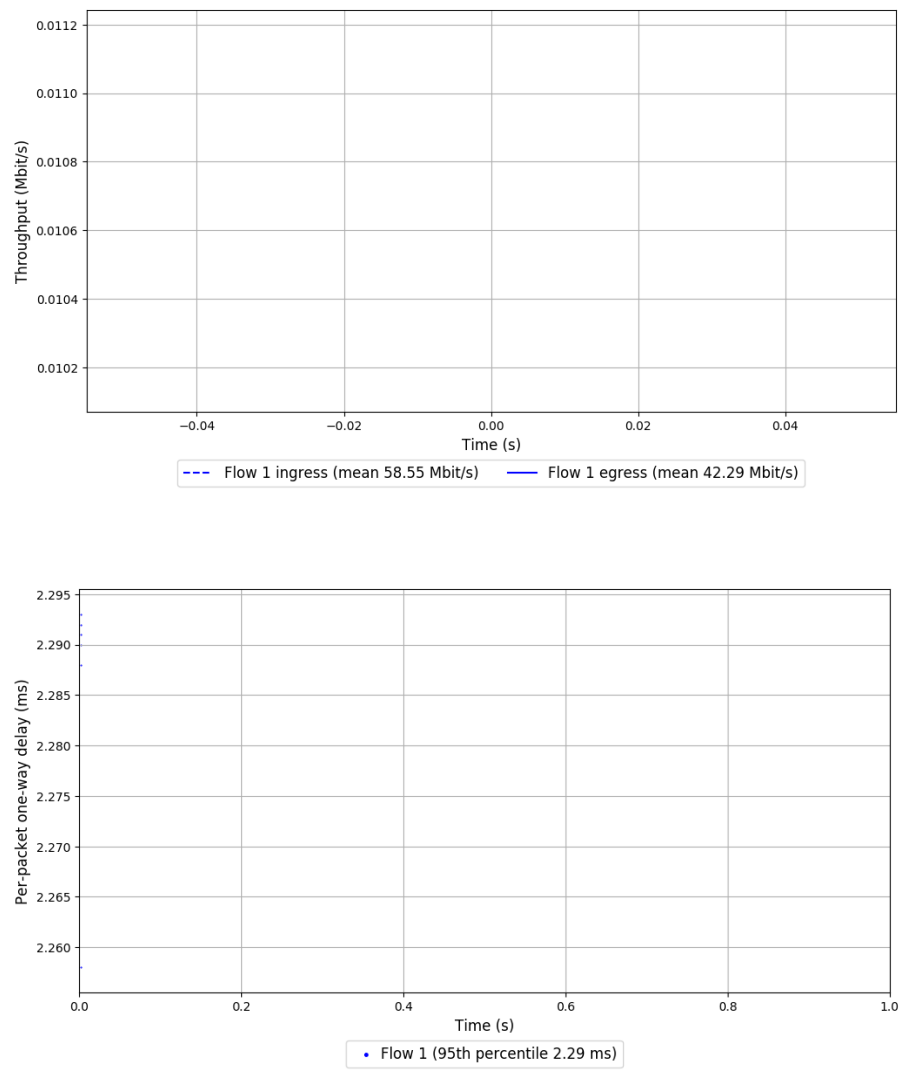
Start at: 2017-12-05 13:42:22

End at: 2017-12-05 13:42:52

Local clock offset: -0.155 ms

Remote clock offset: -0.138 ms

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

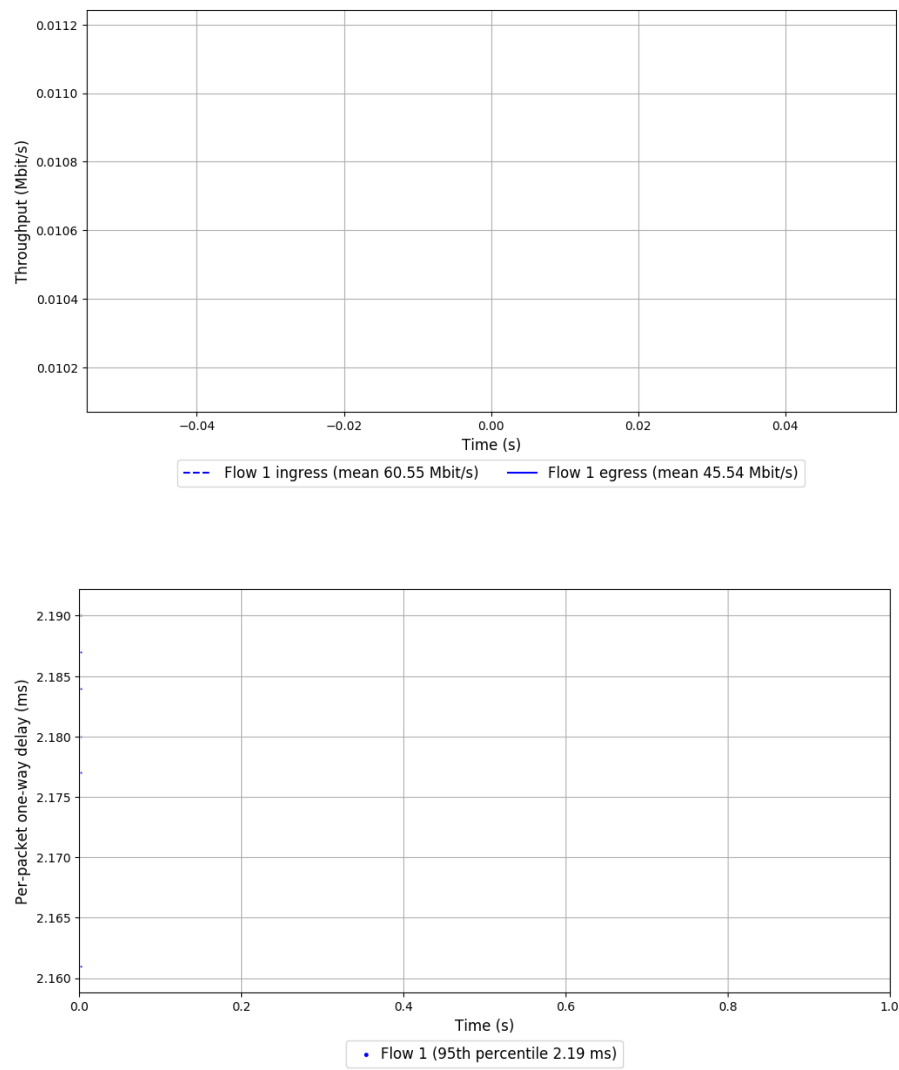
Start at: 2017-12-05 14:00:20

End at: 2017-12-05 14:00:50

Local clock offset: -0.073 ms

Remote clock offset: -0.182 ms

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-12-05 14:18:19

End at: 2017-12-05 14:18:49

Local clock offset: -0.05 ms

Remote clock offset: -0.127 ms

Below is generated by plot.py at 2017-12-05 18:48:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.64 Mbit/s

95th percentile per-packet one-way delay: 2.226 ms

Loss rate: 0.00%

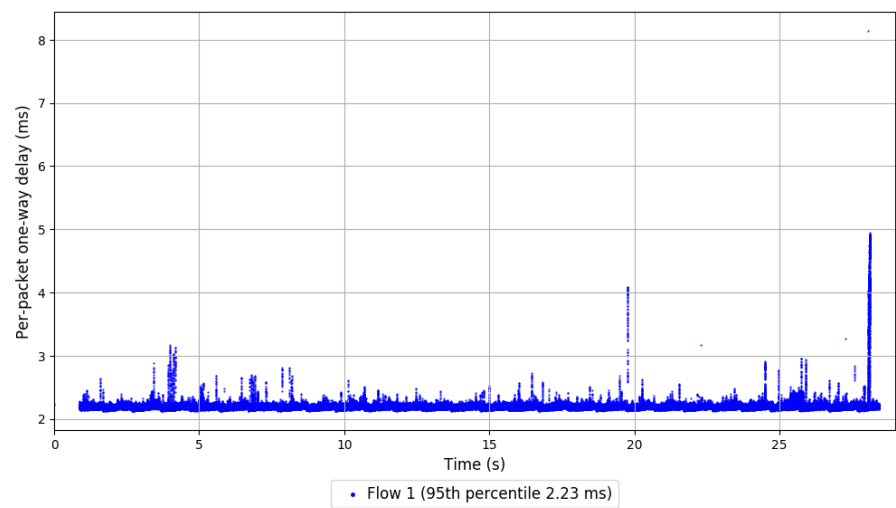
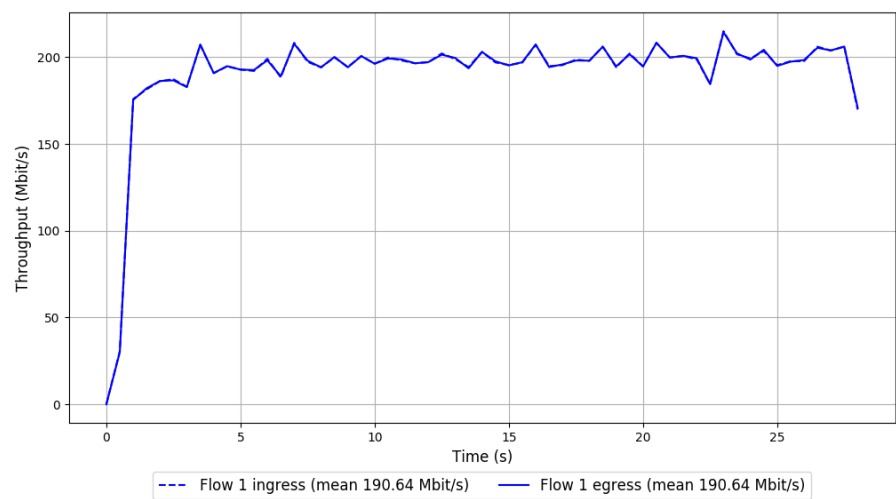
-- Flow 1:

Average throughput: 190.64 Mbit/s

95th percentile per-packet one-way delay: 2.226 ms

Loss rate: 0.00%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

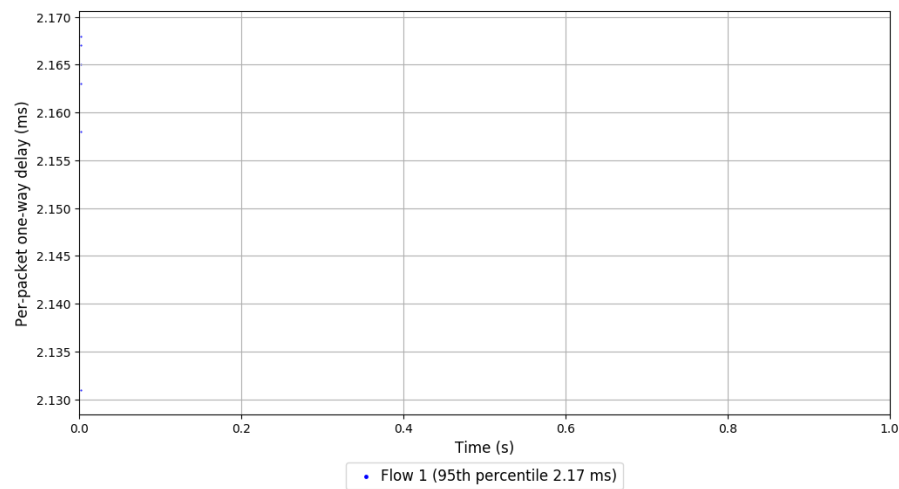
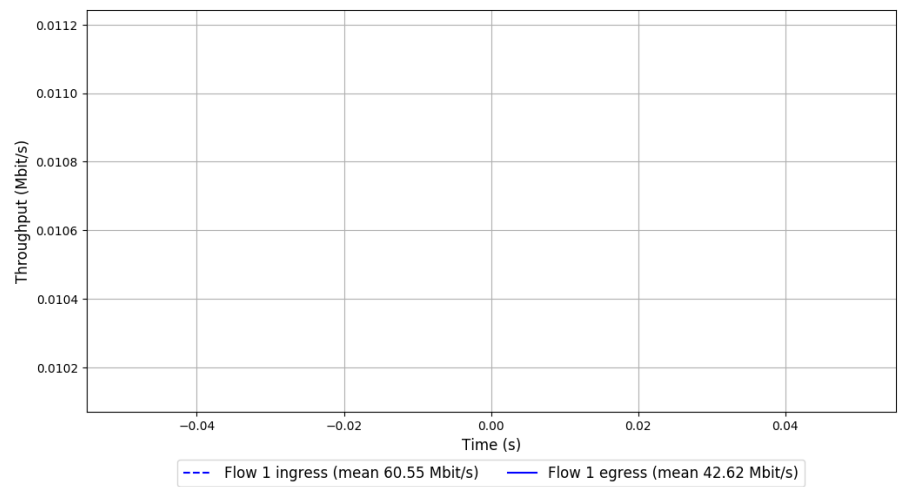
Start at: 2017-12-05 14:36:24

End at: 2017-12-05 14:36:54

Local clock offset: 0.039 ms

Remote clock offset: -0.186 ms

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

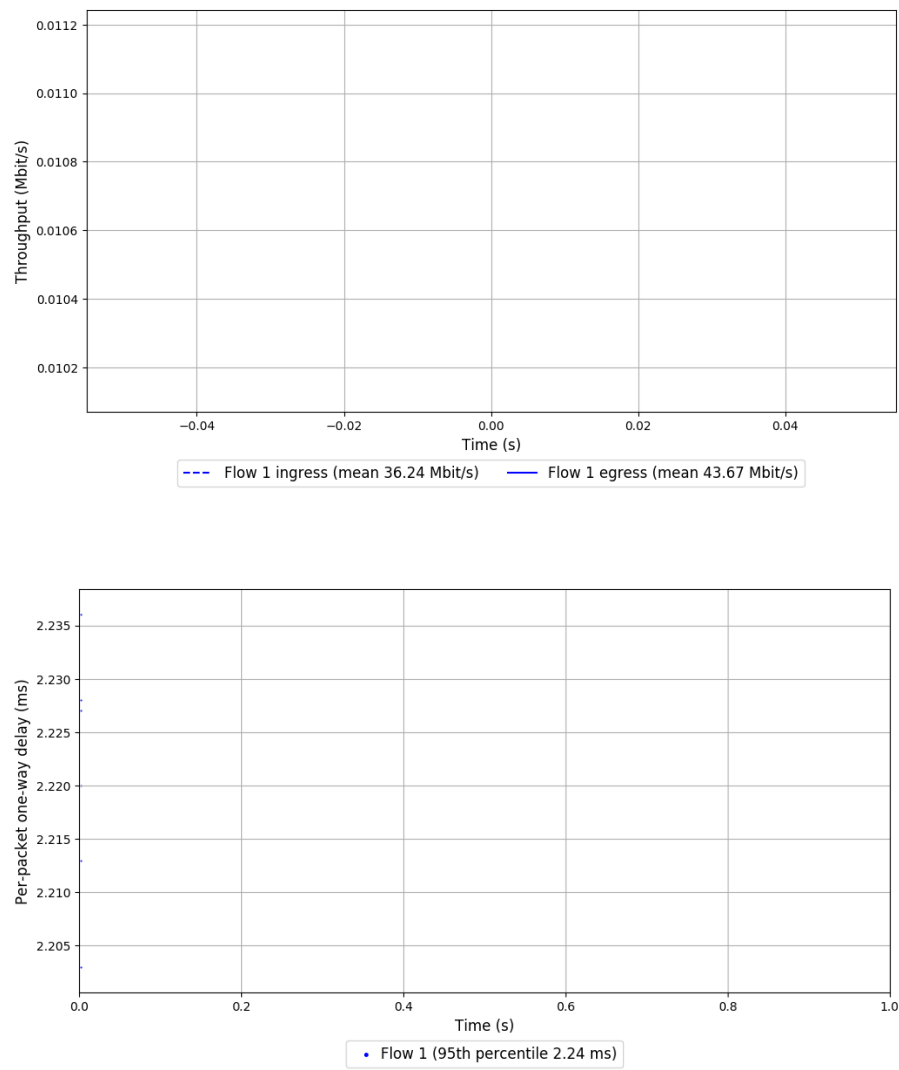
Start at: 2017-12-05 14:54:24

End at: 2017-12-05 14:54:54

Local clock offset: 0.14 ms

Remote clock offset: -0.105 ms

Run 7: Report of Indigo-calib — Data Link

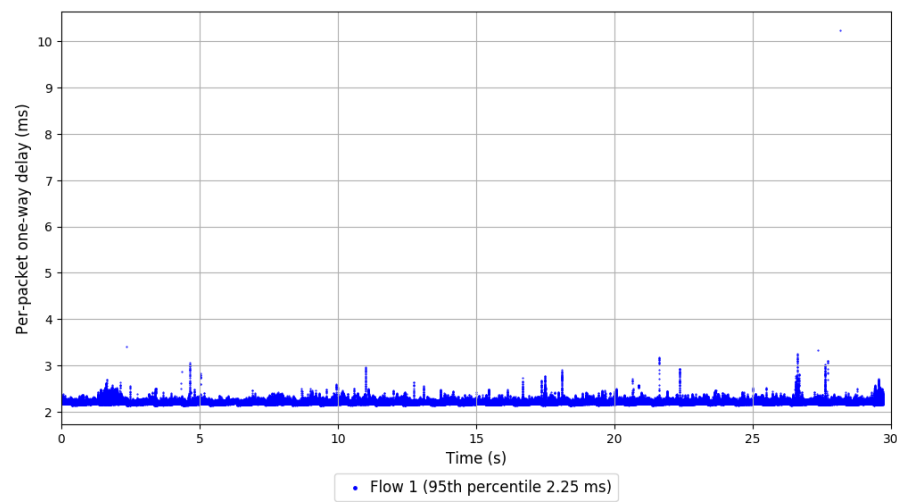
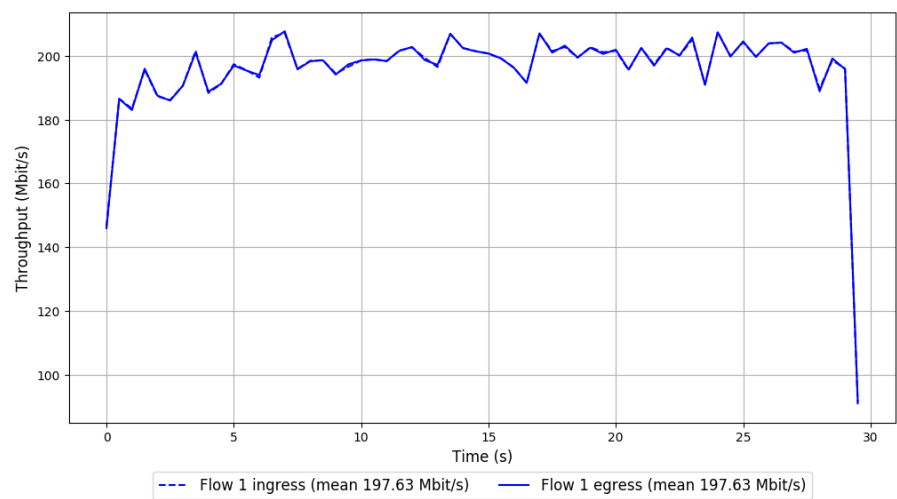


Run 8: Statistics of Indigo-calib

Start at: 2017-12-05 15:12:10
End at: 2017-12-05 15:12:40
Local clock offset: 0.238 ms
Remote clock offset: -0.128 ms

Below is generated by plot.py at 2017-12-05 18:48:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 197.63 Mbit/s
95th percentile per-packet one-way delay: 2.250 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 197.63 Mbit/s
95th percentile per-packet one-way delay: 2.250 ms
Loss rate: 0.00%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

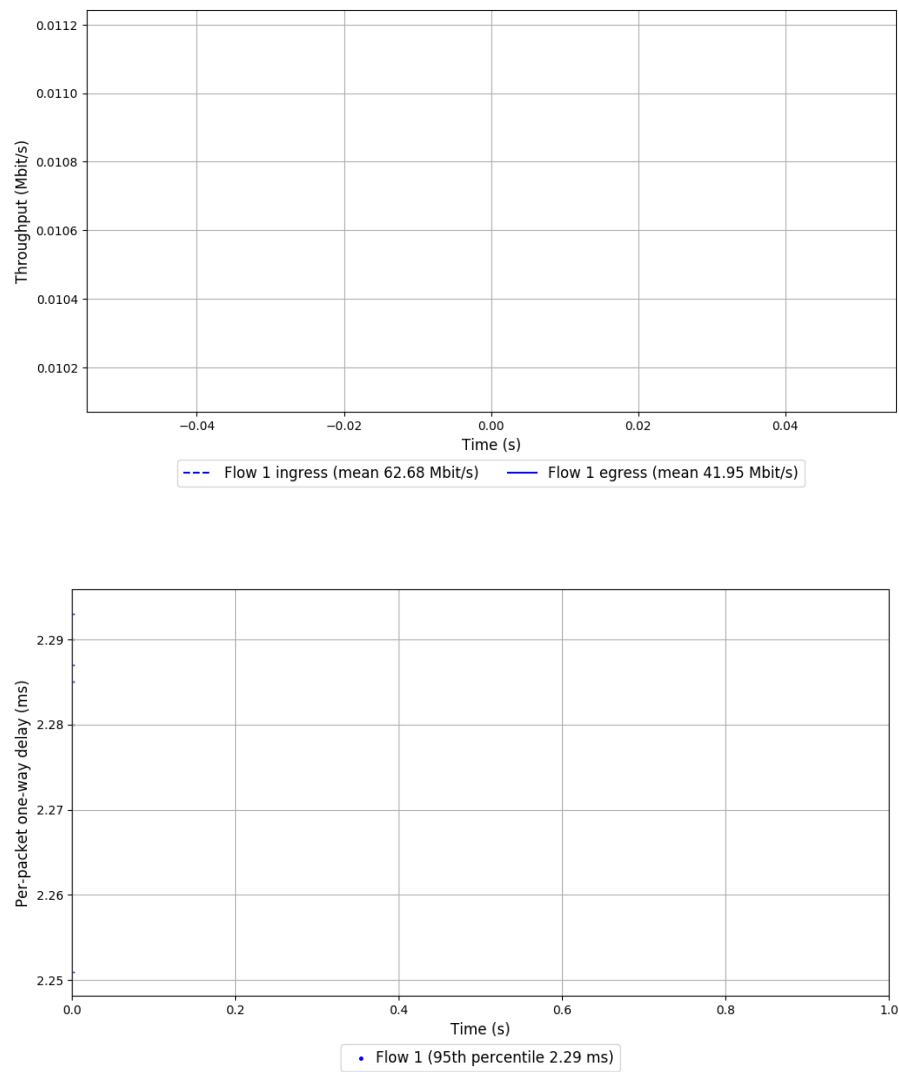
Start at: 2017-12-05 15:30:20

End at: 2017-12-05 15:30:50

Local clock offset: 0.251 ms

Remote clock offset: -0.127 ms

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-12-05 15:48:30

End at: 2017-12-05 15:49:00

Local clock offset: 0.235 ms

Remote clock offset: -0.117 ms

Run 10: Report of Indigo-calib — Data Link

