

Pantheon Report

Generated at 2017-12-11 16:48:27 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

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

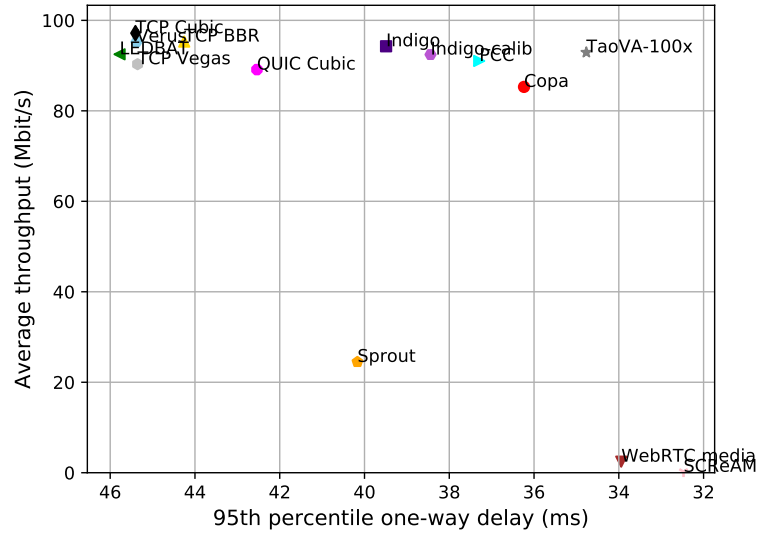
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

NTP offsets were measured against **nets.org.sg** and have been applied to correct the timestamps in logs.

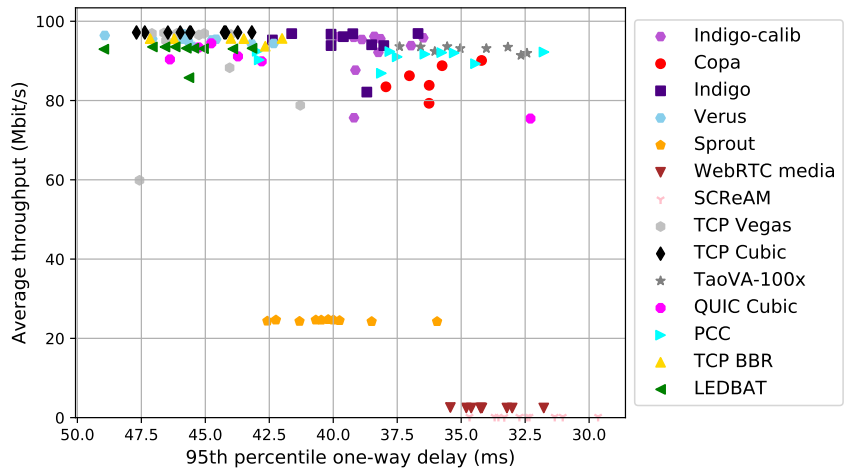
Git summary:

```
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 @ 03455460fd1a8ffbdad86fabb936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



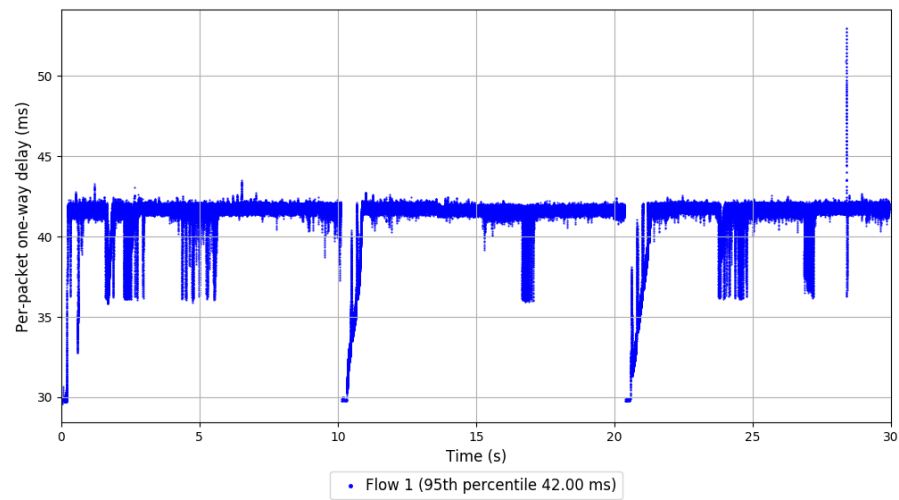
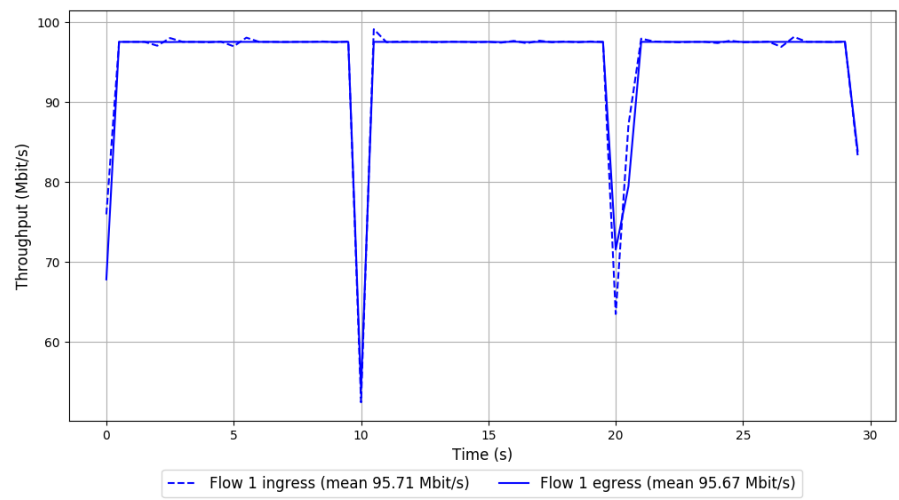
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	6	95.31	44.25	0.12
TCP Cubic	10	97.17	45.40	0.12
LEDBAT	10	92.50	45.78	0.13
PCC	10	91.03	37.29	0.09
QUIC Cubic	6	89.12	42.54	0.09
SCReAM	10	0.20	32.47	0.14
WebRTC media	9	2.44	33.94	0.10
Sprout	10	24.50	40.17	0.08
TaoVA-100x	9	92.93	34.77	0.10
TCP Vegas	10	90.31	45.35	0.10
Verus	10	95.24	45.38	0.12
Copa	6	85.29	36.24	0.10
Indigo	10	94.27	39.49	0.11
Indigo-calib	10	92.44	38.44	0.11

Run 1: Statistics of TCP BBR

Start at: 2017-12-11 10:51:00
End at: 2017-12-11 10:51:30
Local clock offset: -4.32 ms
Remote clock offset: -12.003 ms

Below is generated by plot.py at 2017-12-11 16:30:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.67 Mbit/s
95th percentile per-packet one-way delay: 42.001 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 95.67 Mbit/s
95th percentile per-packet one-way delay: 42.001 ms
Loss rate: 0.13%

Run 1: Report of TCP BBR — Data Link

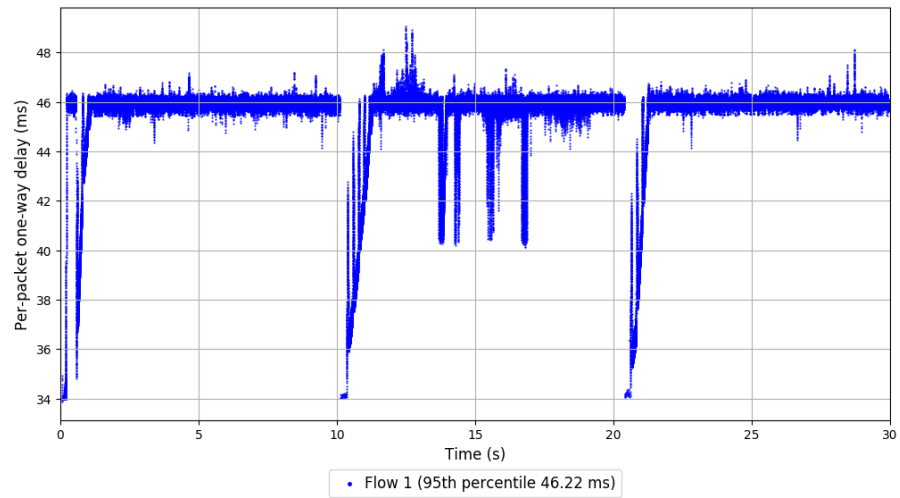
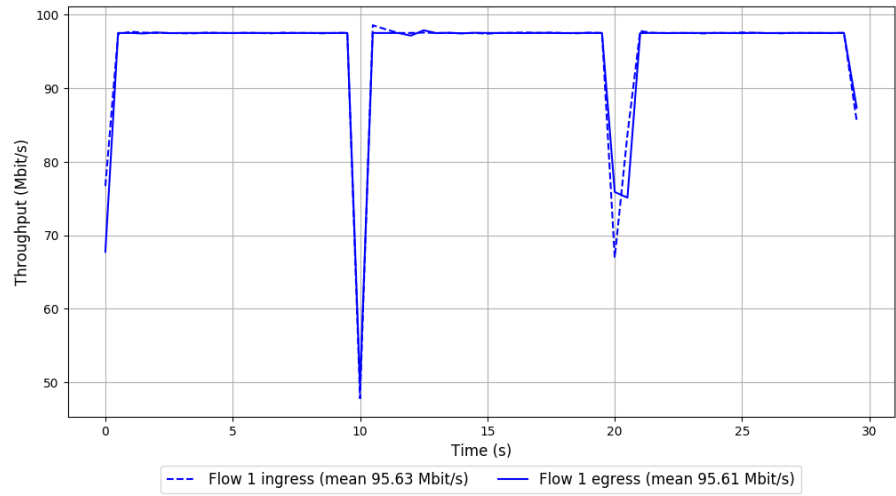


Run 2: Statistics of TCP BBR

Start at: 2017-12-11 11:07:36
End at: 2017-12-11 11:08:06
Local clock offset: -2.468 ms
Remote clock offset: -12.722 ms

Below is generated by plot.py at 2017-12-11 16:30:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.61 Mbit/s
95th percentile per-packet one-way delay: 46.216 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 95.61 Mbit/s
95th percentile per-packet one-way delay: 46.216 ms
Loss rate: 0.13%

Run 2: Report of TCP BBR — Data Link

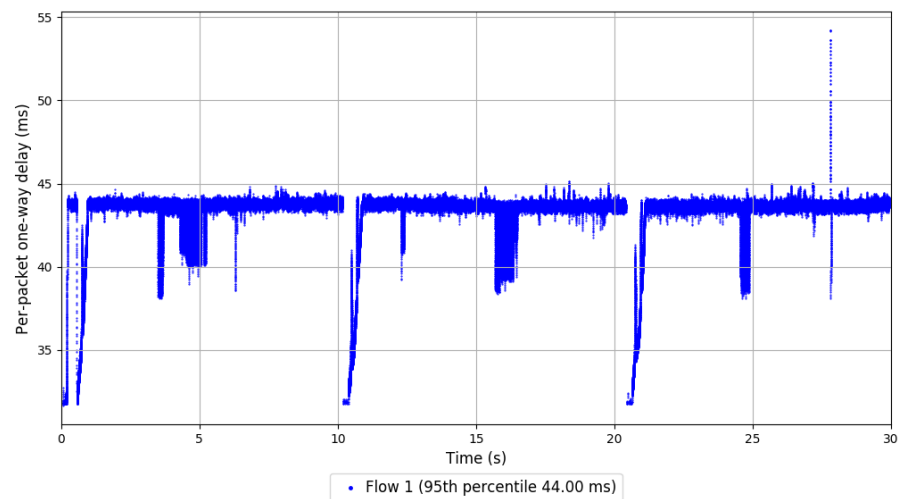
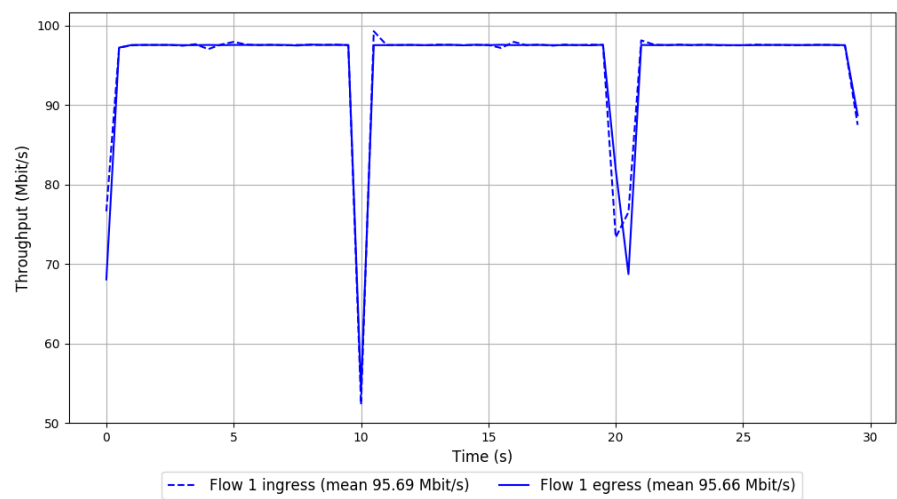


Run 3: Statistics of TCP BBR

Start at: 2017-12-11 11:24:48
End at: 2017-12-11 11:25:18
Local clock offset: -1.96 ms
Remote clock offset: -10.469 ms

Below is generated by plot.py at 2017-12-11 16:30:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.66 Mbit/s
95th percentile per-packet one-way delay: 43.999 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 95.66 Mbit/s
95th percentile per-packet one-way delay: 43.999 ms
Loss rate: 0.13%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

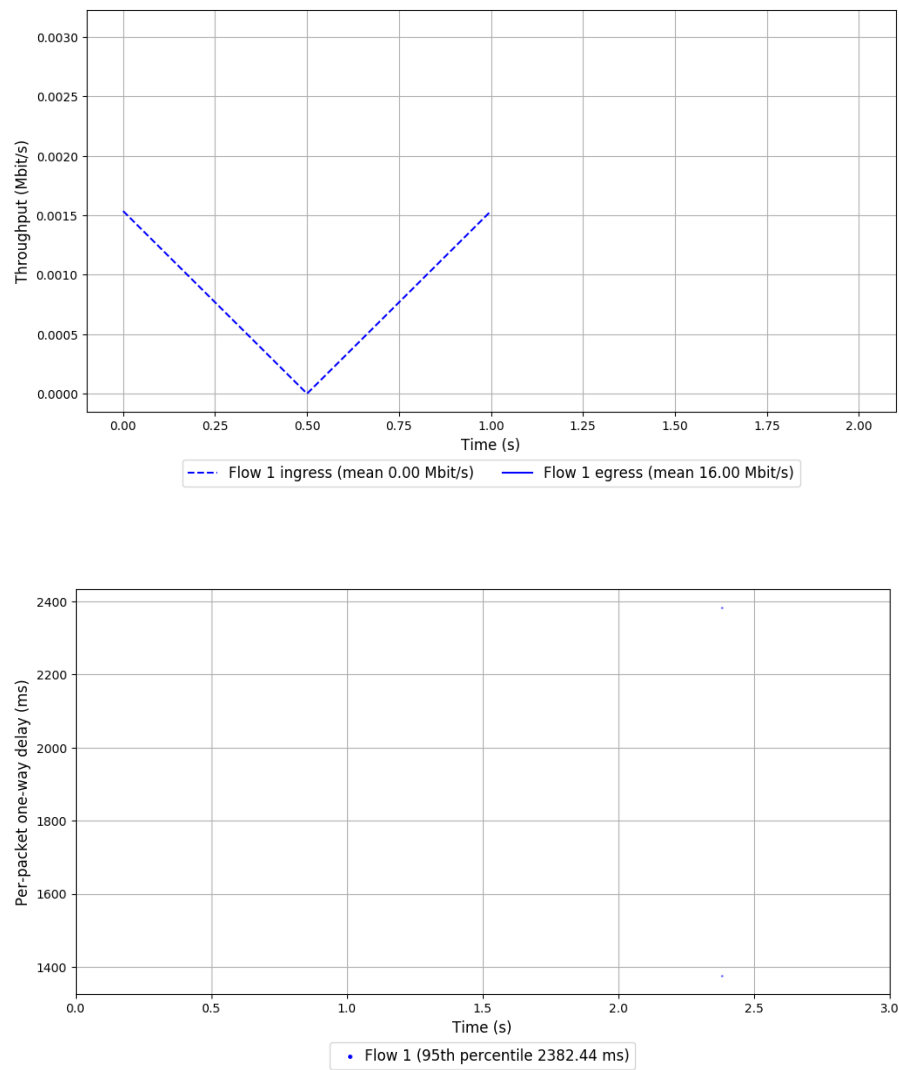
Start at: 2017-12-11 11:41:44

End at: 2017-12-11 11:42:14

Local clock offset: -1.476 ms

Remote clock offset: -11.581 ms

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

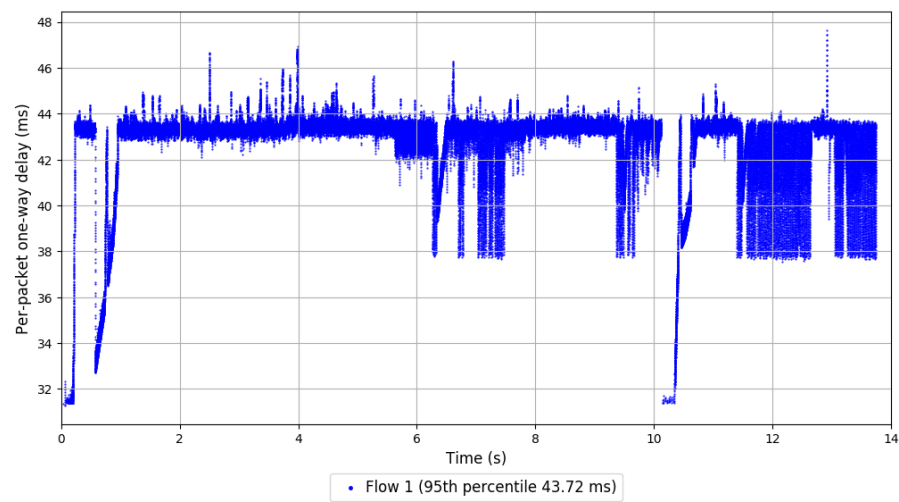
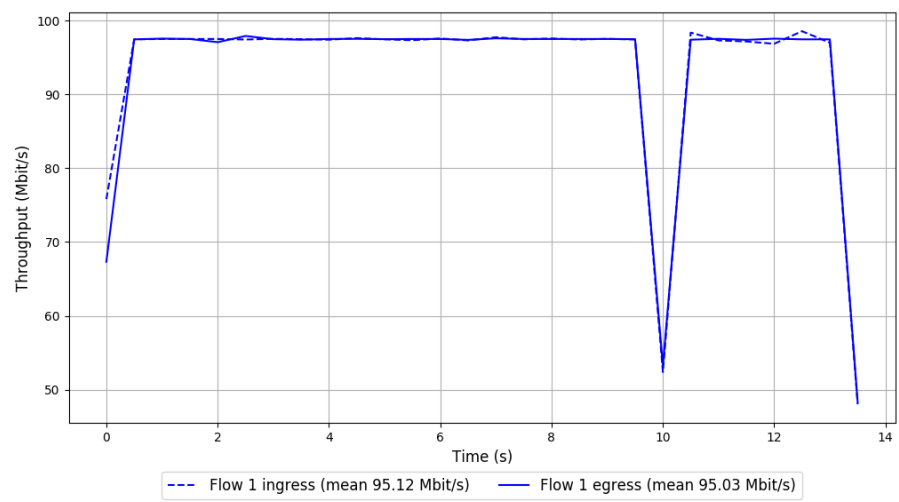
Start at: 2017-12-11 11:58:36

End at: 2017-12-11 11:59:06

Local clock offset: -0.639 ms

Remote clock offset: -10.921 ms

Run 5: Report of TCP BBR — Data Link

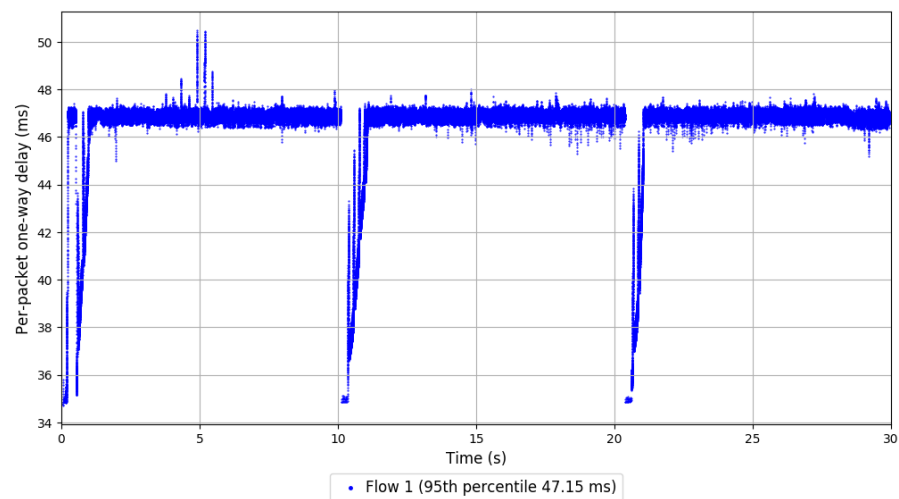
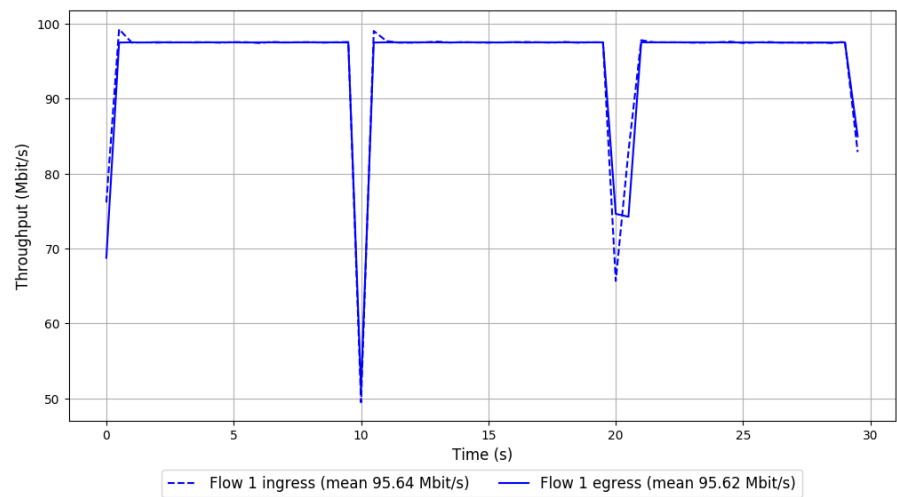


Run 6: Statistics of TCP BBR

Start at: 2017-12-11 12:15:33
End at: 2017-12-11 12:16:03
Local clock offset: 0.203 ms
Remote clock offset: -12.971 ms

Below is generated by plot.py at 2017-12-11 16:30:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 47.154 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 47.154 ms
Loss rate: 0.12%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

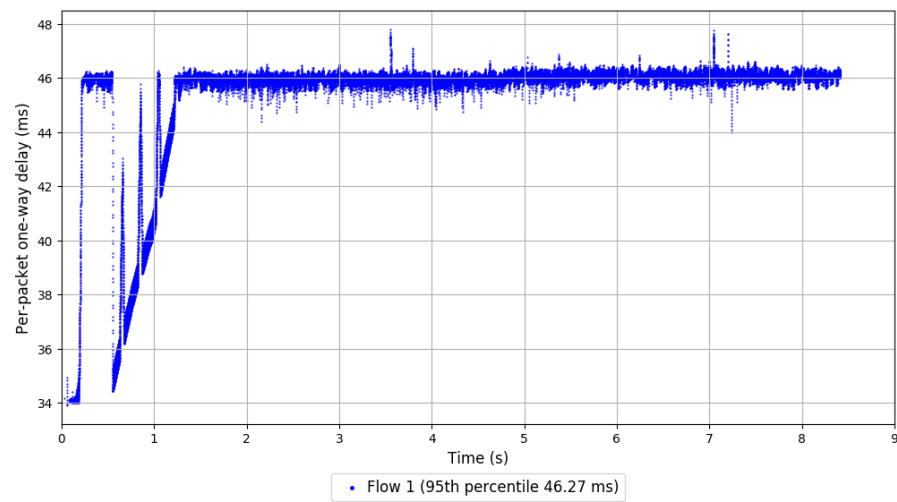
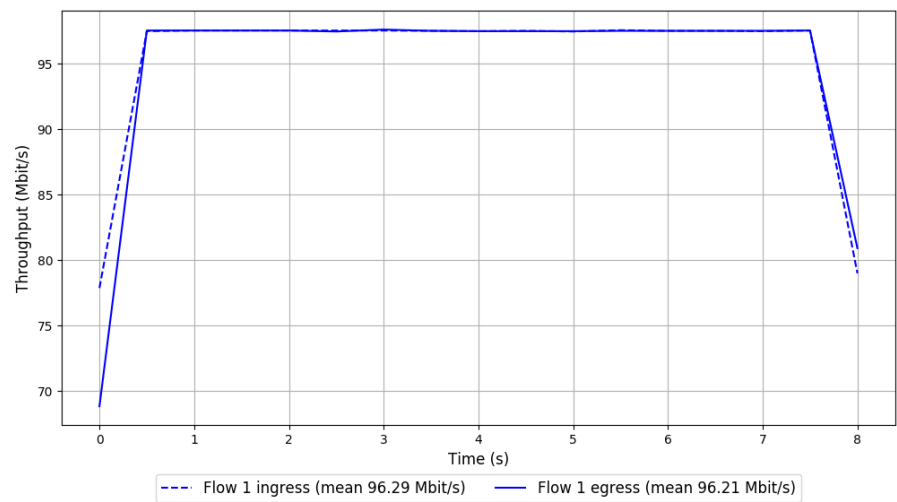
Start at: 2017-12-11 12:32:21

End at: 2017-12-11 12:32:51

Local clock offset: 0.415 ms

Remote clock offset: -12.297 ms

Run 7: Report of TCP BBR — Data Link

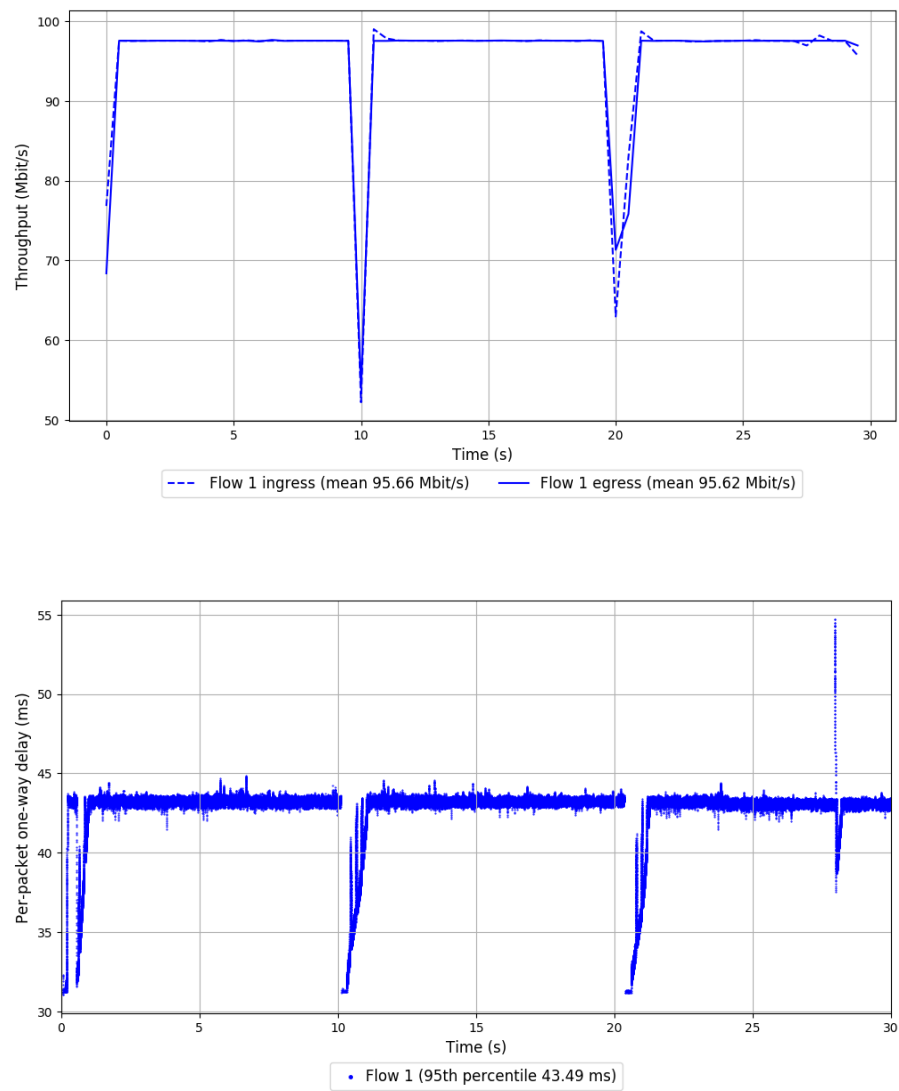


Run 8: Statistics of TCP BBR

Start at: 2017-12-11 12:48:55
End at: 2017-12-11 12:49:25
Local clock offset: -2.643 ms
Remote clock offset: -13.57 ms

Below is generated by plot.py at 2017-12-11 16:30:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 43.495 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 43.495 ms
Loss rate: 0.12%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

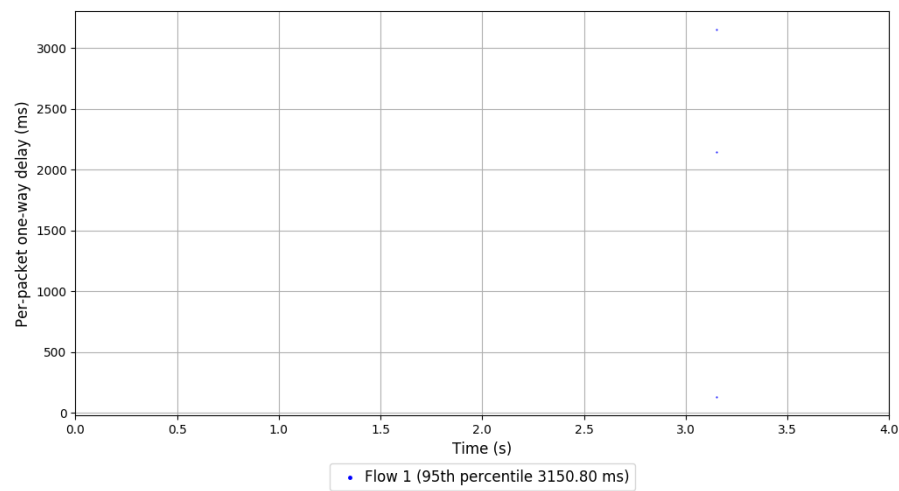
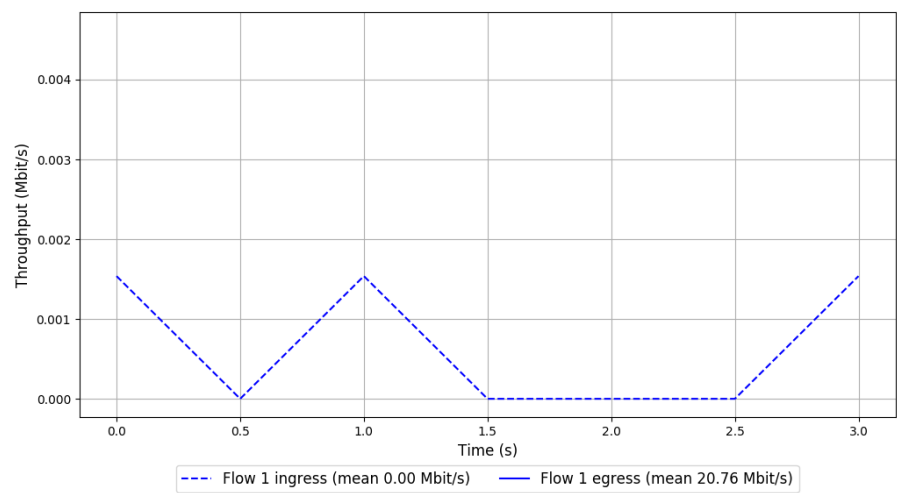
Start at: 2017-12-11 13:05:35

End at: 2017-12-11 13:06:05

Local clock offset: -2.834 ms

Remote clock offset: -14.508 ms

Run 9: Report of TCP BBR — Data Link

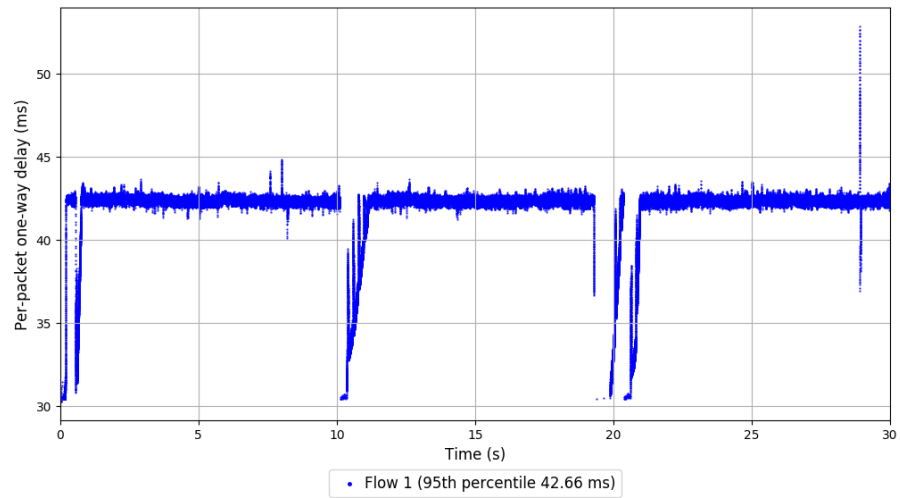
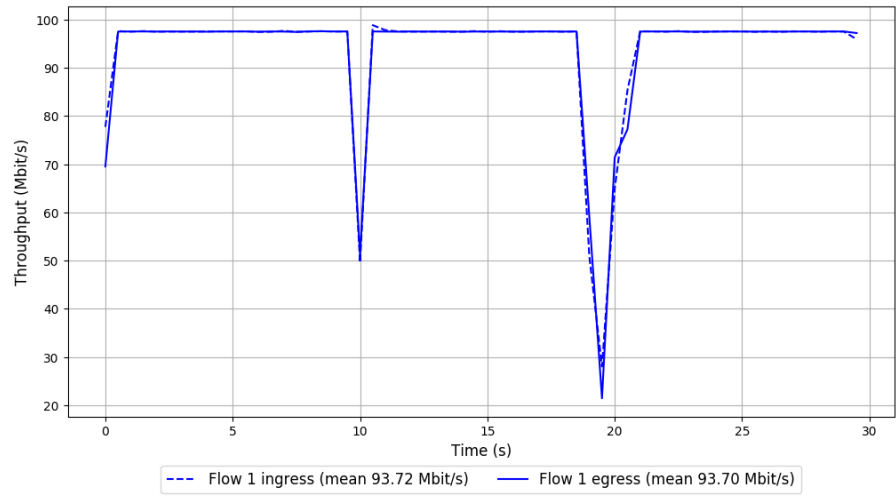


Run 10: Statistics of TCP BBR

Start at: 2017-12-11 13:22:21
End at: 2017-12-11 13:22:51
Local clock offset: -2.417 ms
Remote clock offset: -12.283 ms

Below is generated by plot.py at 2017-12-11 16:30:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.70 Mbit/s
95th percentile per-packet one-way delay: 42.656 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 93.70 Mbit/s
95th percentile per-packet one-way delay: 42.656 ms
Loss rate: 0.12%

Run 10: Report of TCP BBR — Data Link

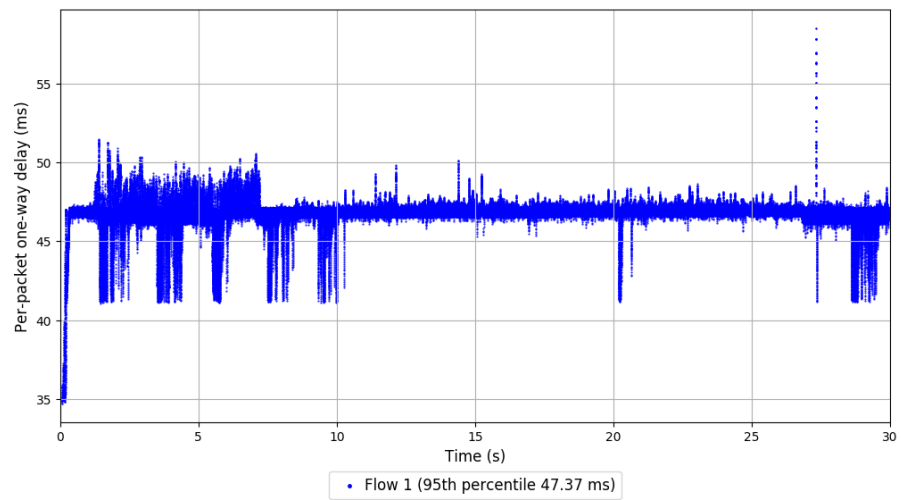
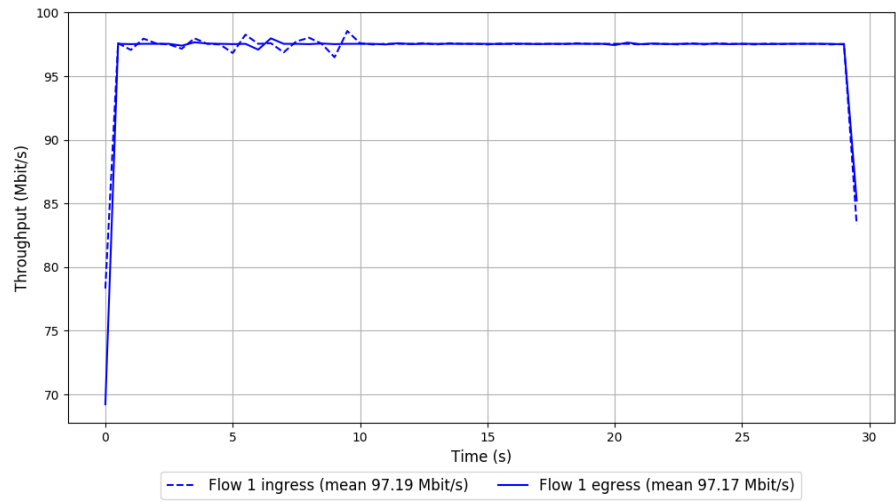


Run 1: Statistics of TCP Cubic

Start at: 2017-12-11 11:01:47
End at: 2017-12-11 11:02:17
Local clock offset: -0.119 ms
Remote clock offset: -12.018 ms

Below is generated by plot.py at 2017-12-11 16:30:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.17 Mbit/s
95th percentile per-packet one-way delay: 47.367 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 97.17 Mbit/s
95th percentile per-packet one-way delay: 47.367 ms
Loss rate: 0.13%

Run 1: Report of TCP Cubic — Data Link

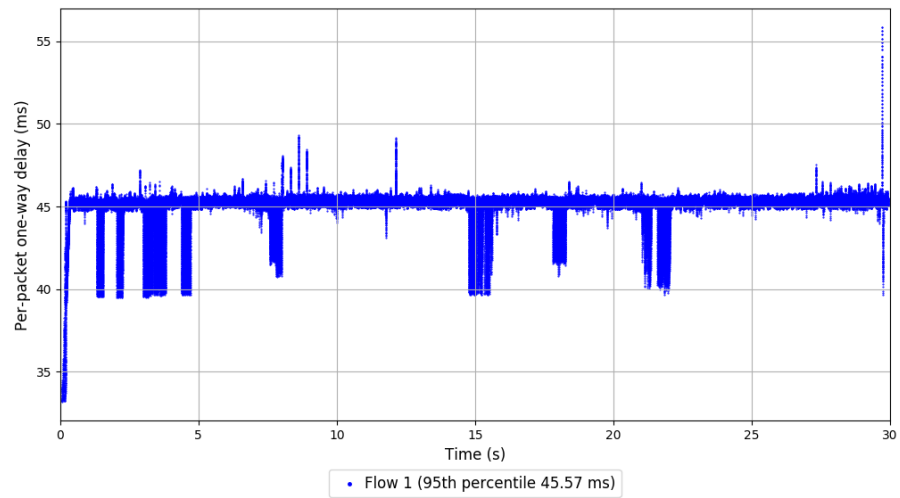
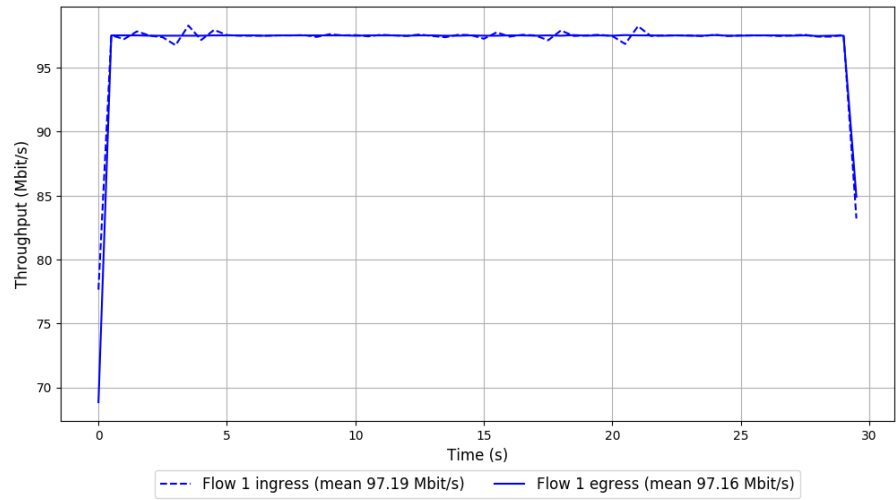


Run 2: Statistics of TCP Cubic

Start at: 2017-12-11 11:18:33
End at: 2017-12-11 11:19:03
Local clock offset: -2.917 ms
Remote clock offset: -12.418 ms

Below is generated by plot.py at 2017-12-11 16:30:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.16 Mbit/s
95th percentile per-packet one-way delay: 45.570 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 97.16 Mbit/s
95th percentile per-packet one-way delay: 45.570 ms
Loss rate: 0.12%

Run 2: Report of TCP Cubic — Data Link

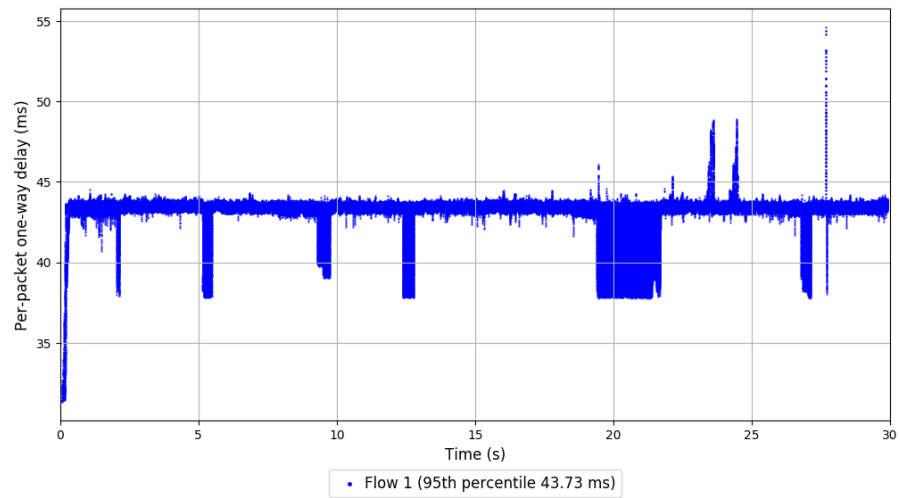
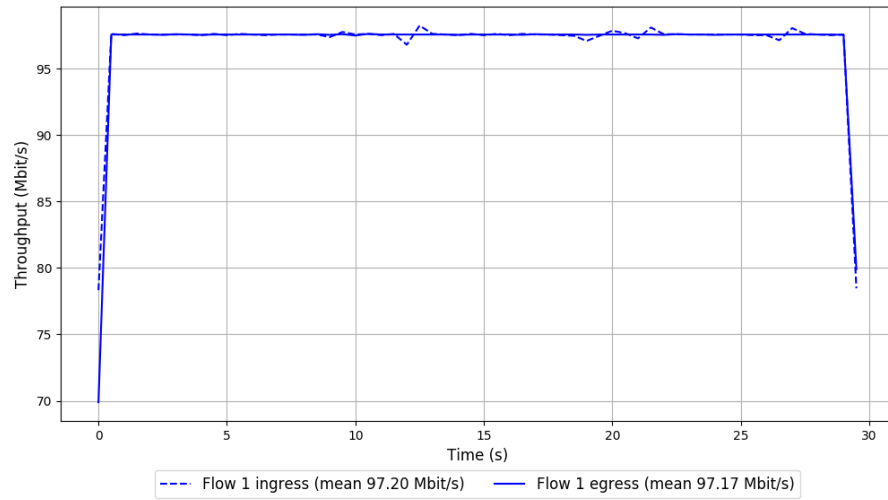


Run 3: Statistics of TCP Cubic

Start at: 2017-12-11 11:35:50
End at: 2017-12-11 11:36:20
Local clock offset: -1.764 ms
Remote clock offset: -9.907 ms

Below is generated by plot.py at 2017-12-11 16:31:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.17 Mbit/s
95th percentile per-packet one-way delay: 43.731 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 97.17 Mbit/s
95th percentile per-packet one-way delay: 43.731 ms
Loss rate: 0.12%

Run 3: Report of TCP Cubic — Data Link

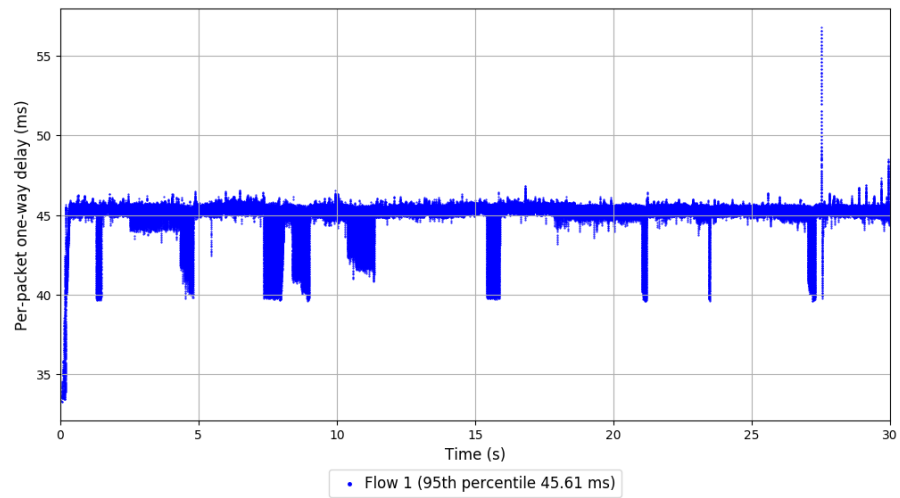
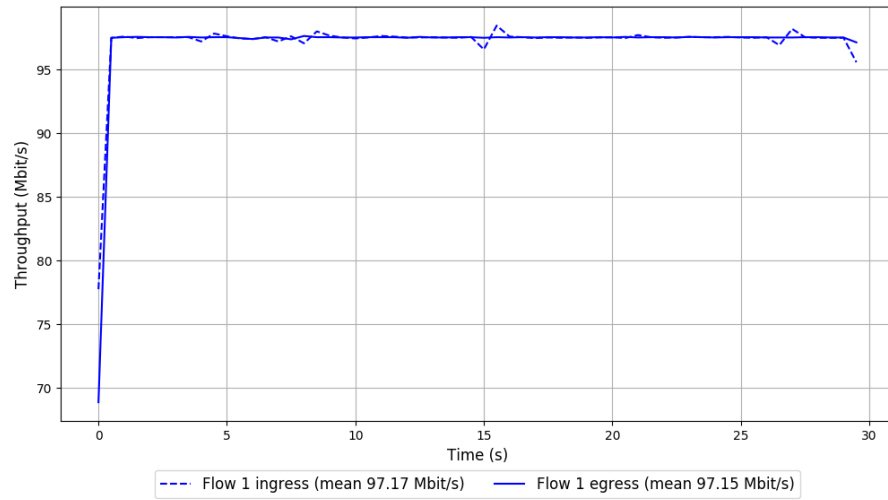


Run 4: Statistics of TCP Cubic

Start at: 2017-12-11 11:52:29
End at: 2017-12-11 11:52:59
Local clock offset: 0.697 ms
Remote clock offset: -11.015 ms

Below is generated by plot.py at 2017-12-11 16:31:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.15 Mbit/s
95th percentile per-packet one-way delay: 45.610 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 97.15 Mbit/s
95th percentile per-packet one-way delay: 45.610 ms
Loss rate: 0.12%

Run 4: Report of TCP Cubic — Data Link

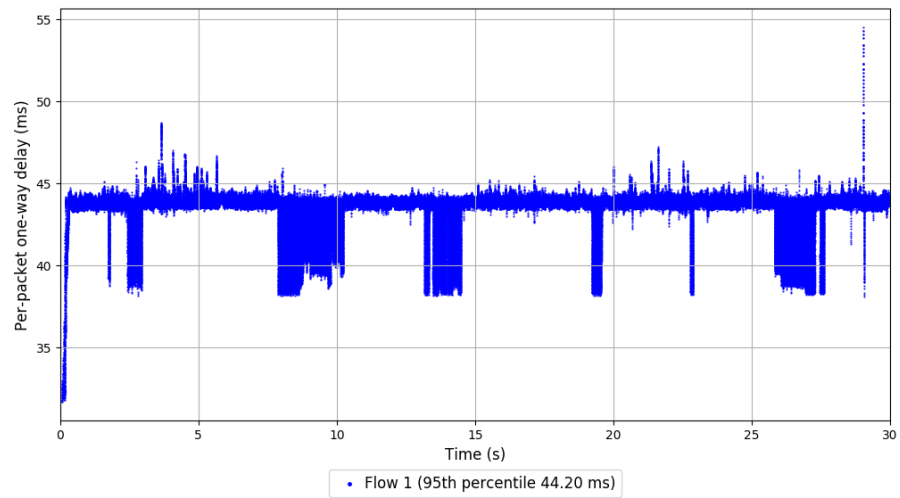
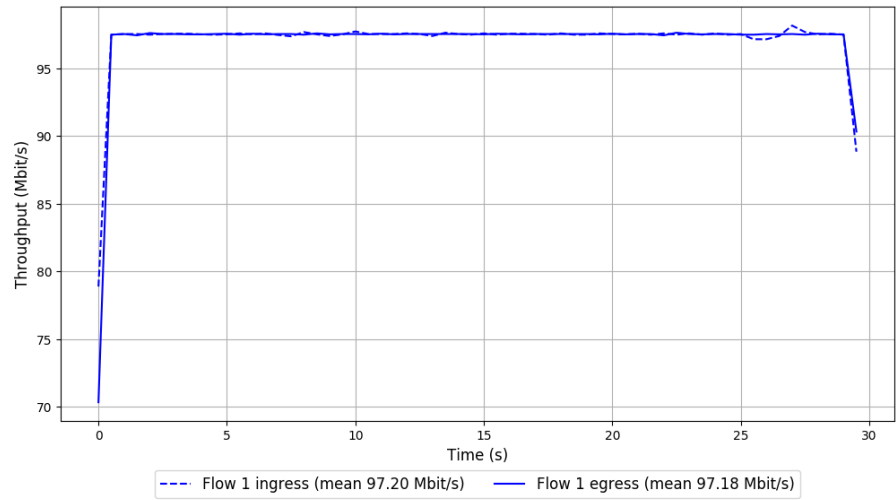


Run 5: Statistics of TCP Cubic

Start at: 2017-12-11 12:09:32
End at: 2017-12-11 12:10:02
Local clock offset: -2.272 ms
Remote clock offset: -12.77 ms

Below is generated by plot.py at 2017-12-11 16:31:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.18 Mbit/s
95th percentile per-packet one-way delay: 44.200 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 97.18 Mbit/s
95th percentile per-packet one-way delay: 44.200 ms
Loss rate: 0.12%

Run 5: Report of TCP Cubic — Data Link

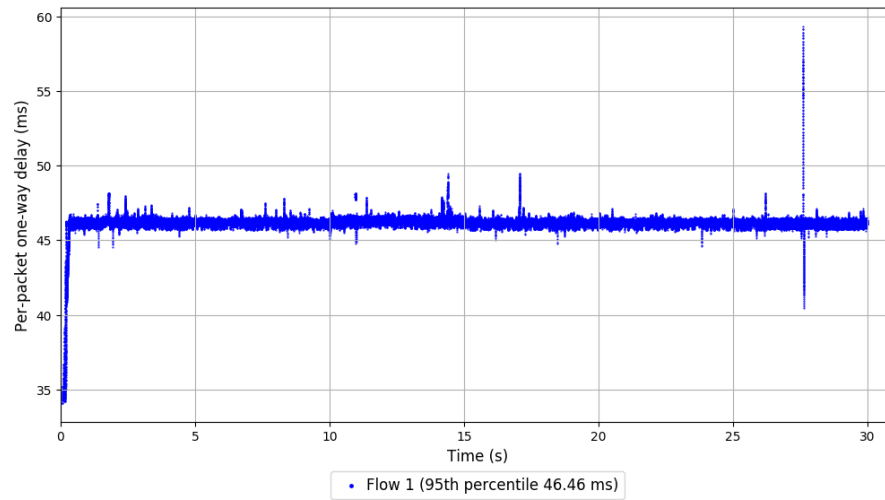
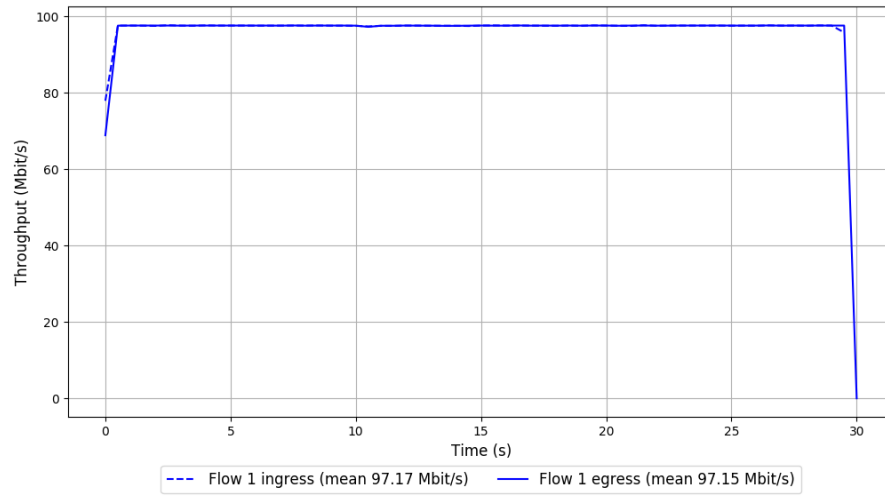


Run 6: Statistics of TCP Cubic

Start at: 2017-12-11 12:26:18
End at: 2017-12-11 12:26:48
Local clock offset: 1.258 ms
Remote clock offset: -11.384 ms

Below is generated by plot.py at 2017-12-11 16:31:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.15 Mbit/s
95th percentile per-packet one-way delay: 46.462 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 97.15 Mbit/s
95th percentile per-packet one-way delay: 46.462 ms
Loss rate: 0.12%

Run 6: Report of TCP Cubic — Data Link

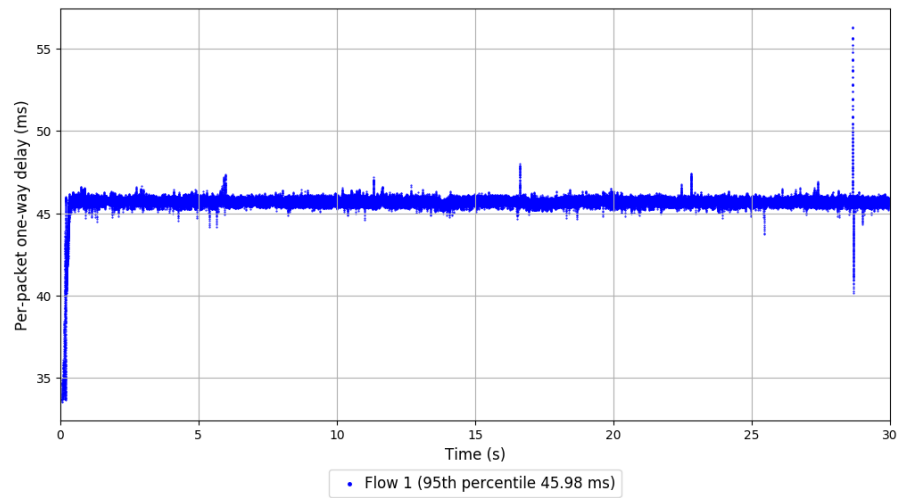
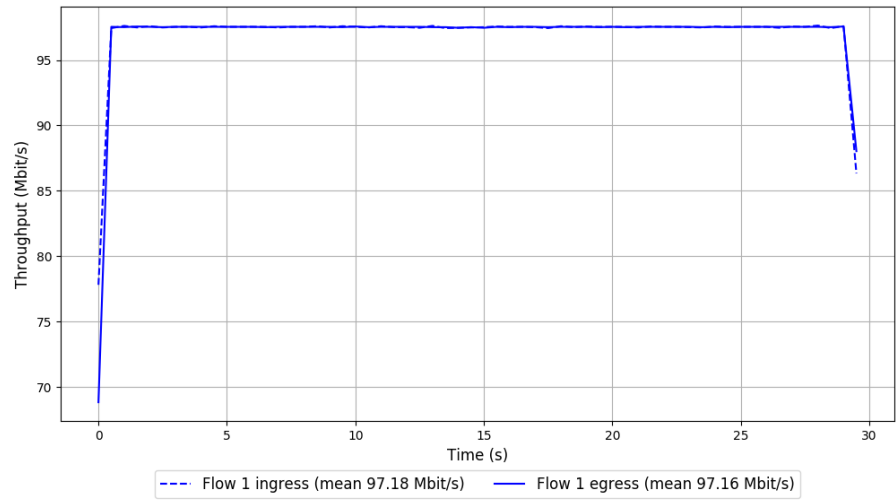


Run 7: Statistics of TCP Cubic

Start at: 2017-12-11 12:43:11
End at: 2017-12-11 12:43:41
Local clock offset: 0.363 ms
Remote clock offset: -12.885 ms

Below is generated by plot.py at 2017-12-11 16:31:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.16 Mbit/s
95th percentile per-packet one-way delay: 45.979 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 97.16 Mbit/s
95th percentile per-packet one-way delay: 45.979 ms
Loss rate: 0.12%

Run 7: Report of TCP Cubic — Data Link

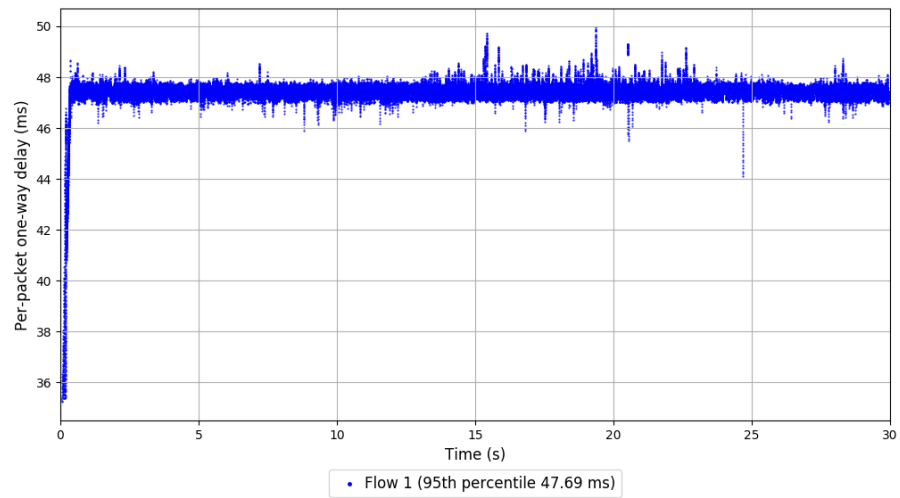
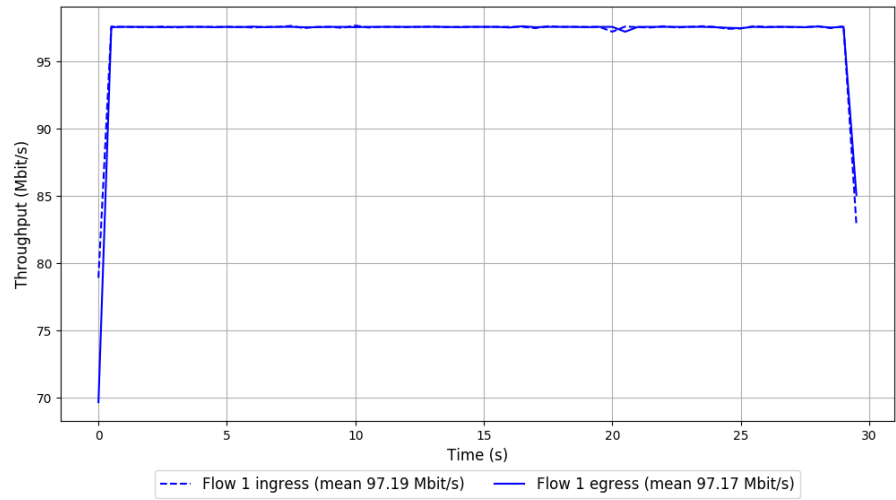


Run 8: Statistics of TCP Cubic

Start at: 2017-12-11 12:59:32
End at: 2017-12-11 13:00:02
Local clock offset: 1.286 ms
Remote clock offset: -14.535 ms

Below is generated by plot.py at 2017-12-11 16:31:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.17 Mbit/s
95th percentile per-packet one-way delay: 47.690 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 97.17 Mbit/s
95th percentile per-packet one-way delay: 47.690 ms
Loss rate: 0.12%

Run 8: Report of TCP Cubic — Data Link

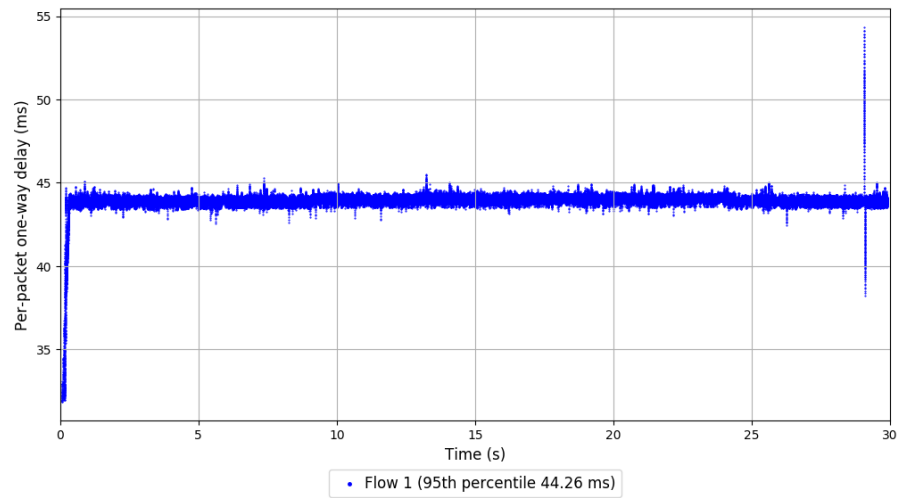
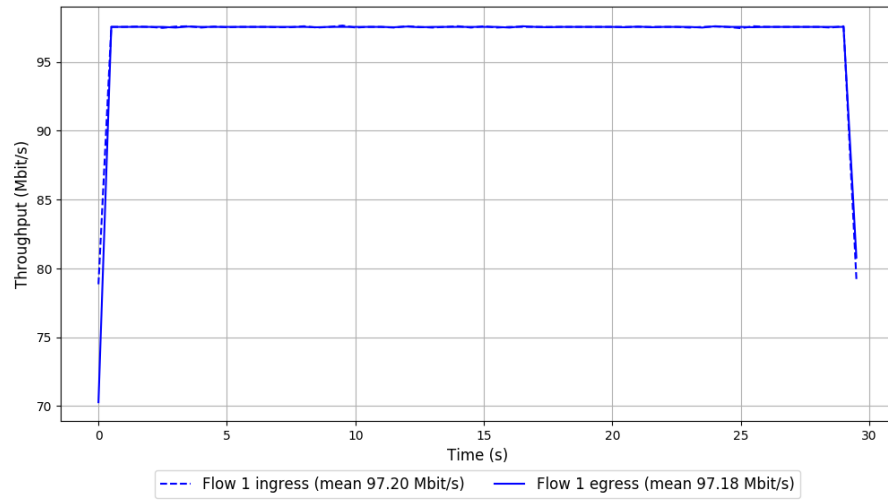


Run 9: Statistics of TCP Cubic

Start at: 2017-12-11 13:16:33
End at: 2017-12-11 13:17:03
Local clock offset: -0.403 ms
Remote clock offset: -11.788 ms

Below is generated by plot.py at 2017-12-11 16:32:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.18 Mbit/s
95th percentile per-packet one-way delay: 44.259 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 97.18 Mbit/s
95th percentile per-packet one-way delay: 44.259 ms
Loss rate: 0.12%

Run 9: Report of TCP Cubic — Data Link

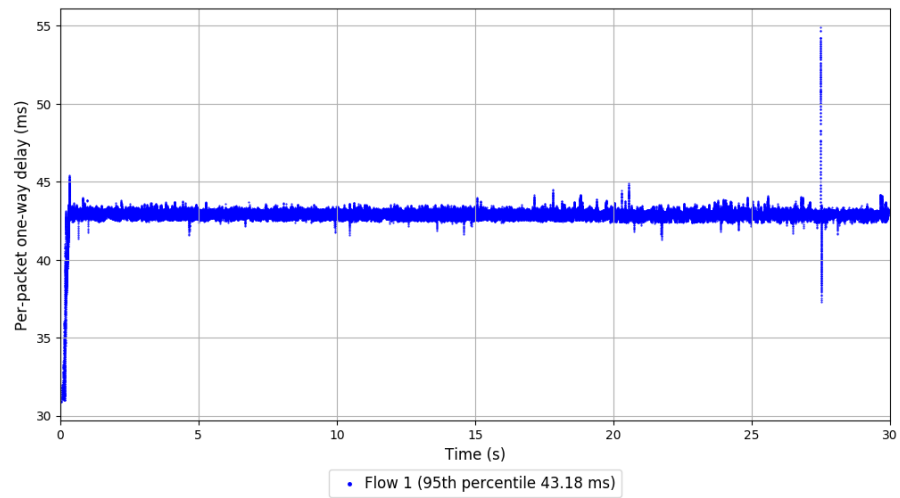
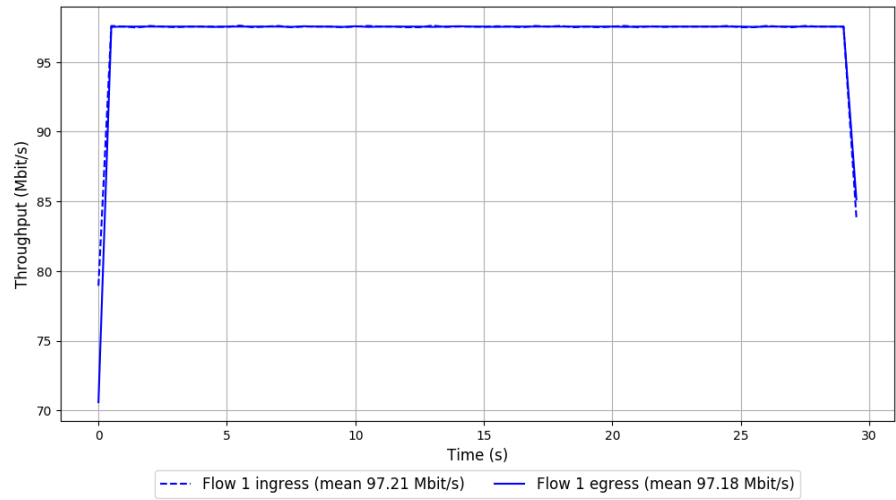


Run 10: Statistics of TCP Cubic

Start at: 2017-12-11 13:33:34
End at: 2017-12-11 13:34:04
Local clock offset: -2.585 ms
Remote clock offset: -13.759 ms

Below is generated by plot.py at 2017-12-11 16:32:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.18 Mbit/s
95th percentile per-packet one-way delay: 43.181 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 97.18 Mbit/s
95th percentile per-packet one-way delay: 43.181 ms
Loss rate: 0.12%

Run 10: Report of TCP Cubic — Data Link

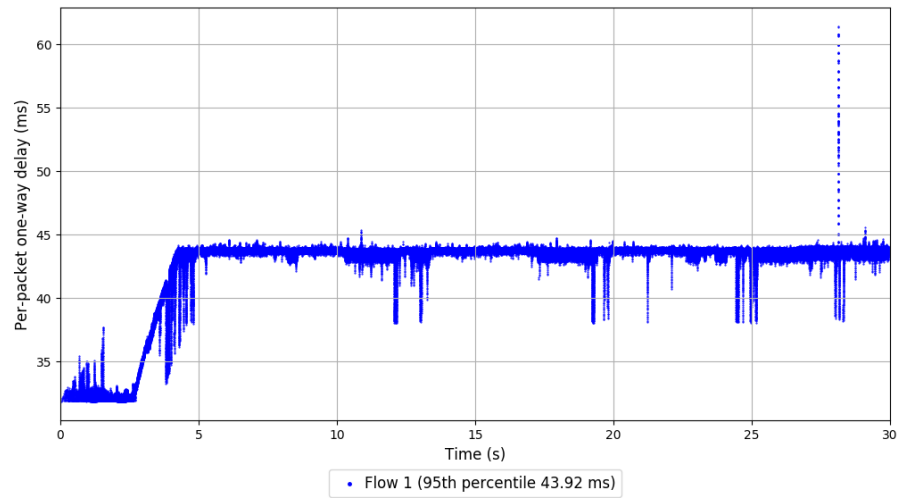
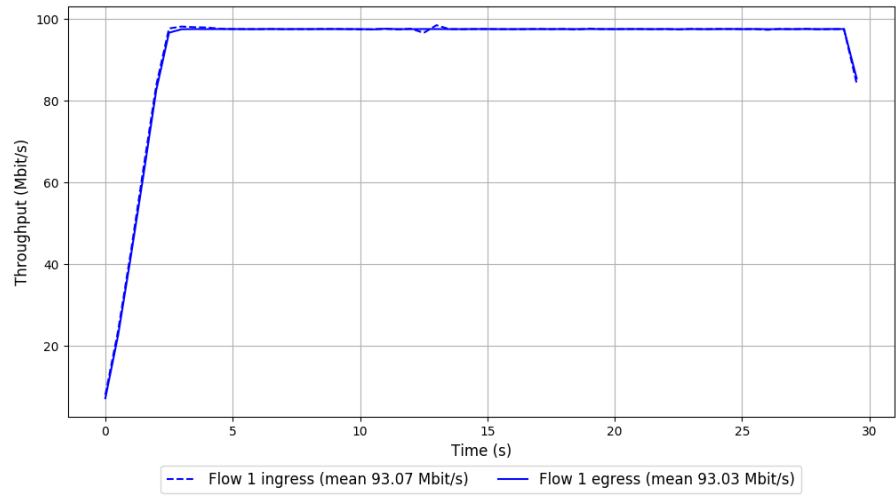


Run 1: Statistics of LEDBAT

Start at: 2017-12-11 10:53:19
End at: 2017-12-11 10:53:49
Local clock offset: -1.149 ms
Remote clock offset: -10.705 ms

Below is generated by plot.py at 2017-12-11 16:33:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.03 Mbit/s
95th percentile per-packet one-way delay: 43.925 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 93.03 Mbit/s
95th percentile per-packet one-way delay: 43.925 ms
Loss rate: 0.13%

Run 1: Report of LEDBAT — Data Link

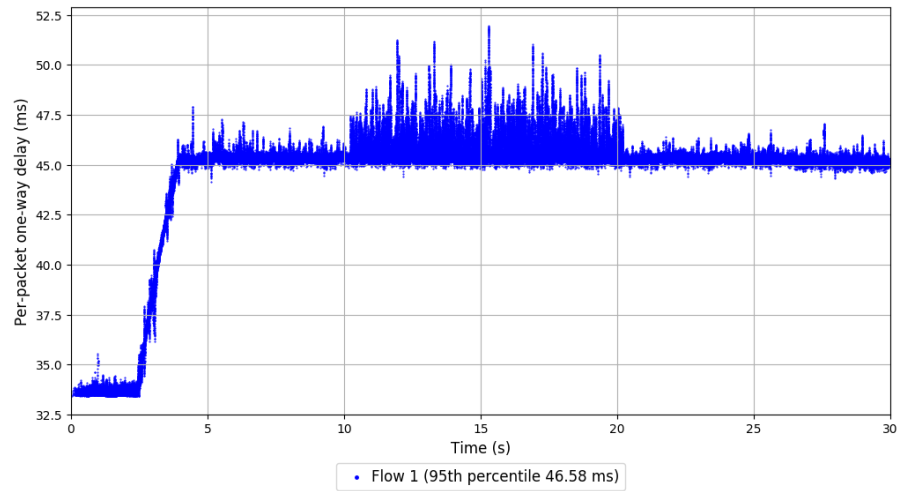
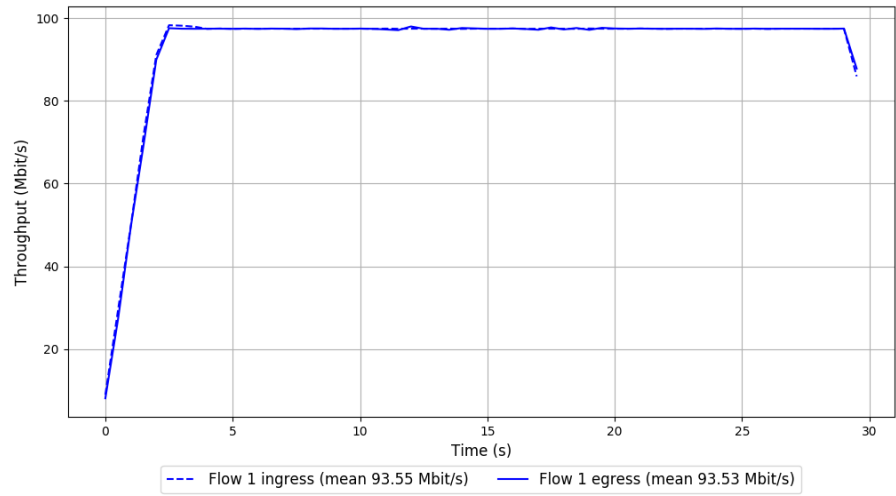


Run 2: Statistics of LEDBAT

Start at: 2017-12-11 11:09:55
End at: 2017-12-11 11:10:25
Local clock offset: -1.321 ms
Remote clock offset: -10.753 ms

Below is generated by plot.py at 2017-12-11 16:33:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.53 Mbit/s
95th percentile per-packet one-way delay: 46.577 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 93.53 Mbit/s
95th percentile per-packet one-way delay: 46.577 ms
Loss rate: 0.12%

Run 2: Report of LEDBAT — Data Link

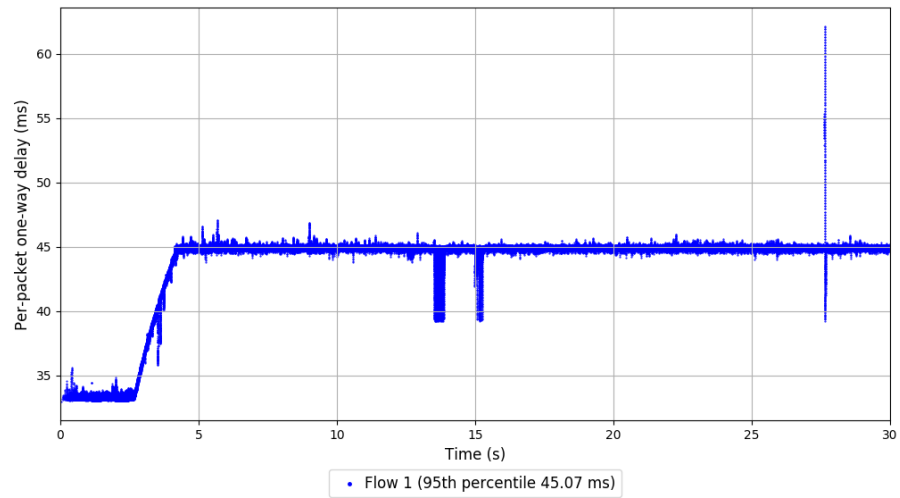
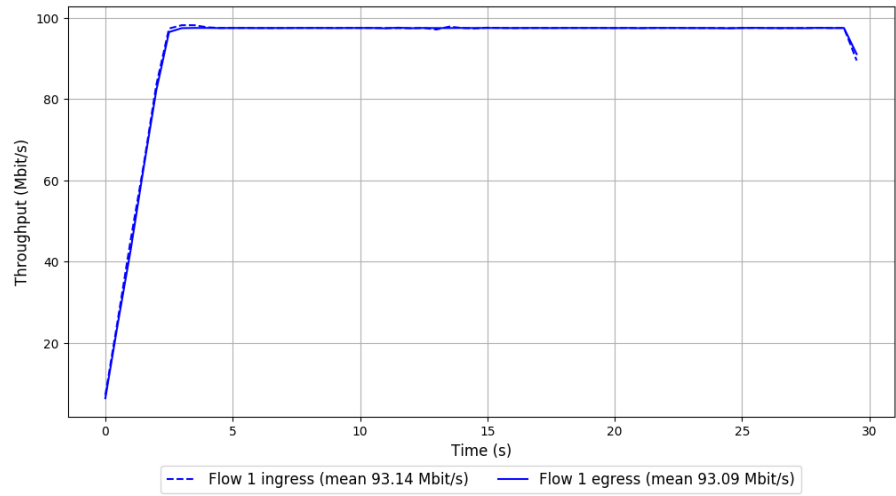


Run 3: Statistics of LEDBAT

Start at: 2017-12-11 11:27:08
End at: 2017-12-11 11:27:38
Local clock offset: 0.92 ms
Remote clock offset: -9.014 ms

Below is generated by plot.py at 2017-12-11 16:33:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.09 Mbit/s
95th percentile per-packet one-way delay: 45.072 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 93.09 Mbit/s
95th percentile per-packet one-way delay: 45.072 ms
Loss rate: 0.13%

Run 3: Report of LEDBAT — Data Link

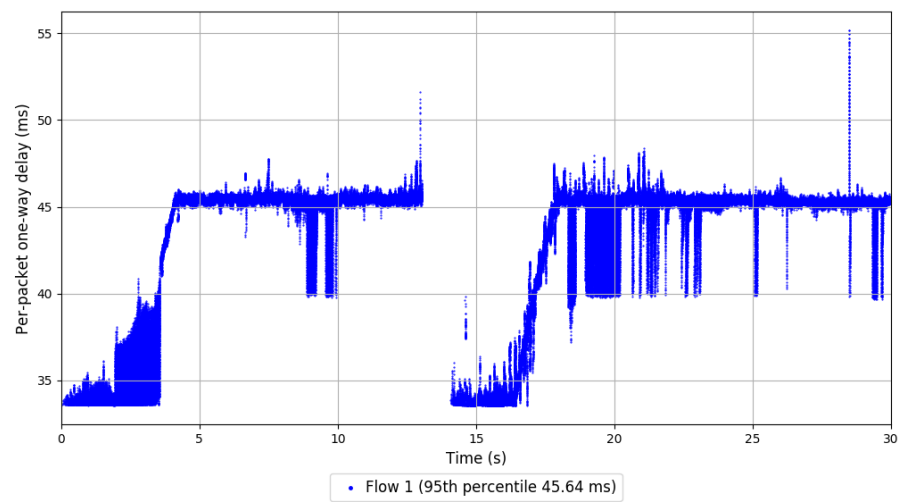
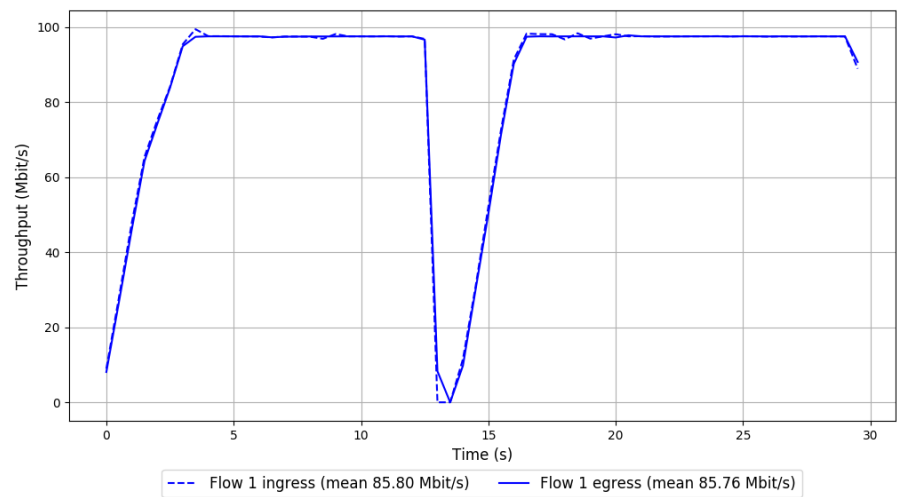


Run 4: Statistics of LEDBAT

Start at: 2017-12-11 11:43:56
End at: 2017-12-11 11:44:26
Local clock offset: -0.67 ms
Remote clock offset: -11.579 ms

Below is generated by plot.py at 2017-12-11 16:33:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 85.76 Mbit/s
95th percentile per-packet one-way delay: 45.641 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 85.76 Mbit/s
95th percentile per-packet one-way delay: 45.641 ms
Loss rate: 0.15%

Run 4: Report of LEDBAT — Data Link

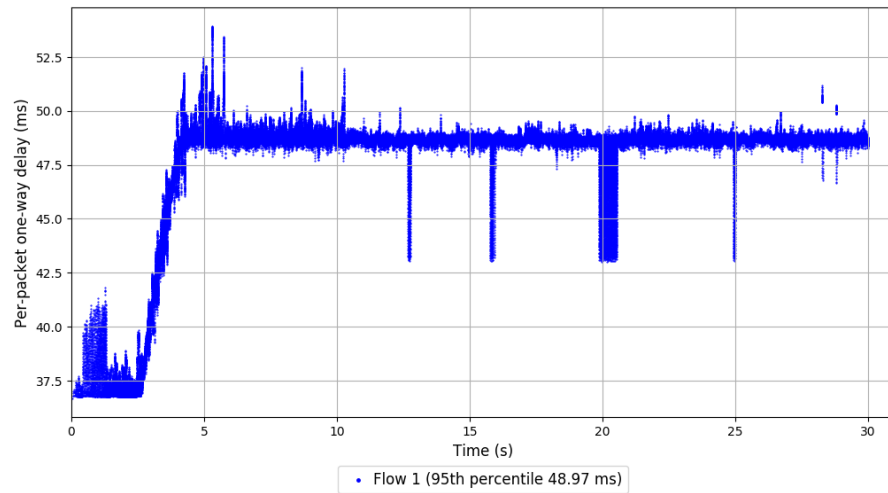
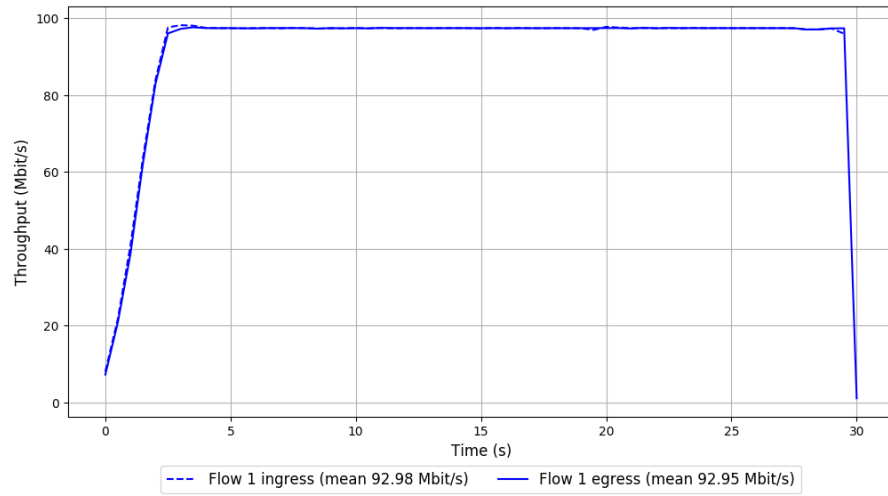


Run 5: Statistics of LEDBAT

Start at: 2017-12-11 12:00:53
End at: 2017-12-11 12:01:23
Local clock offset: 1.4 ms
Remote clock offset: -14.315 ms

Below is generated by plot.py at 2017-12-11 16:33:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.95 Mbit/s
95th percentile per-packet one-way delay: 48.967 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 92.95 Mbit/s
95th percentile per-packet one-way delay: 48.967 ms
Loss rate: 0.12%

Run 5: Report of LEDBAT — Data Link

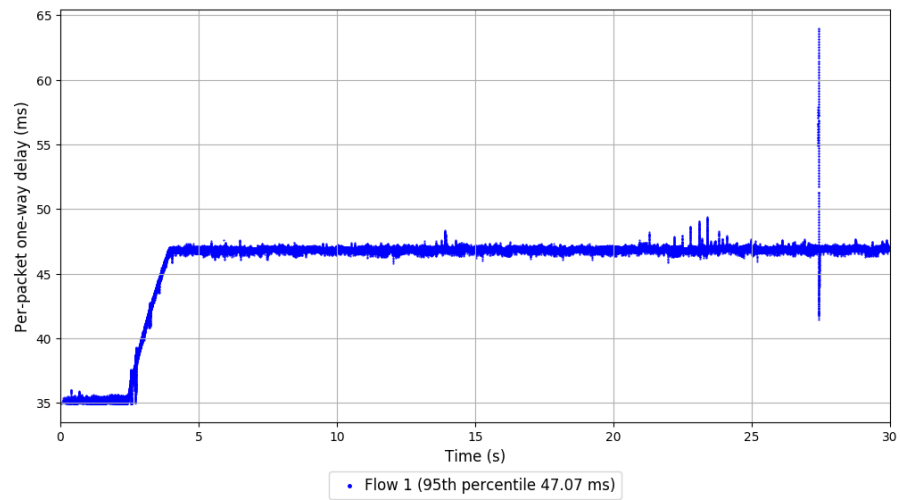
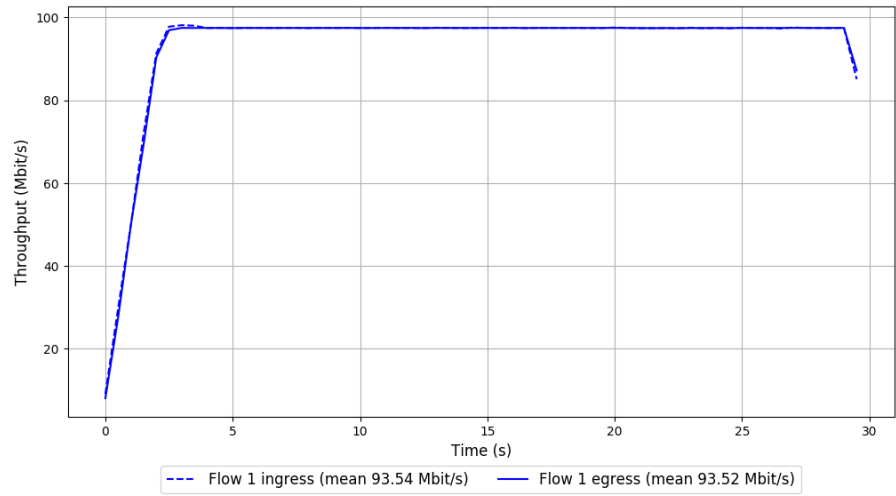


Run 6: Statistics of LEDBAT

Start at: 2017-12-11 12:17:51
End at: 2017-12-11 12:18:21
Local clock offset: 0.591 ms
Remote clock offset: -12.53 ms

Below is generated by plot.py at 2017-12-11 16:33:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.52 Mbit/s
95th percentile per-packet one-way delay: 47.070 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 93.52 Mbit/s
95th percentile per-packet one-way delay: 47.070 ms
Loss rate: 0.13%

Run 6: Report of LEDBAT — Data Link

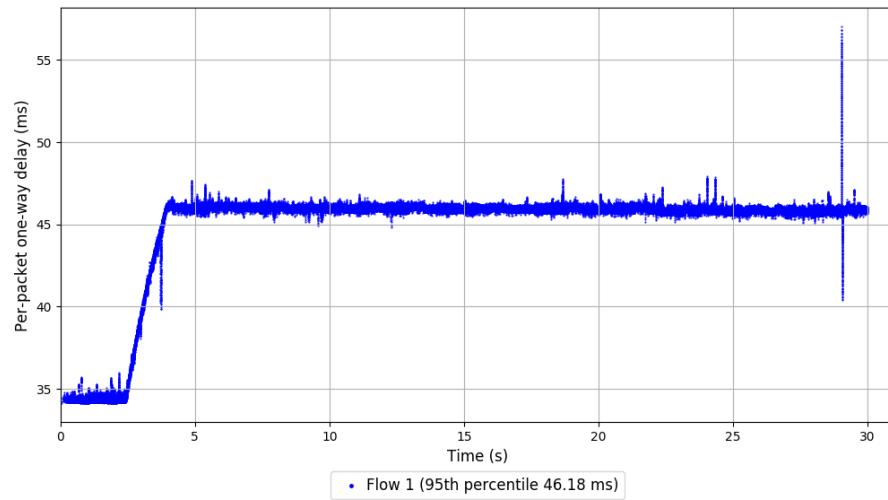
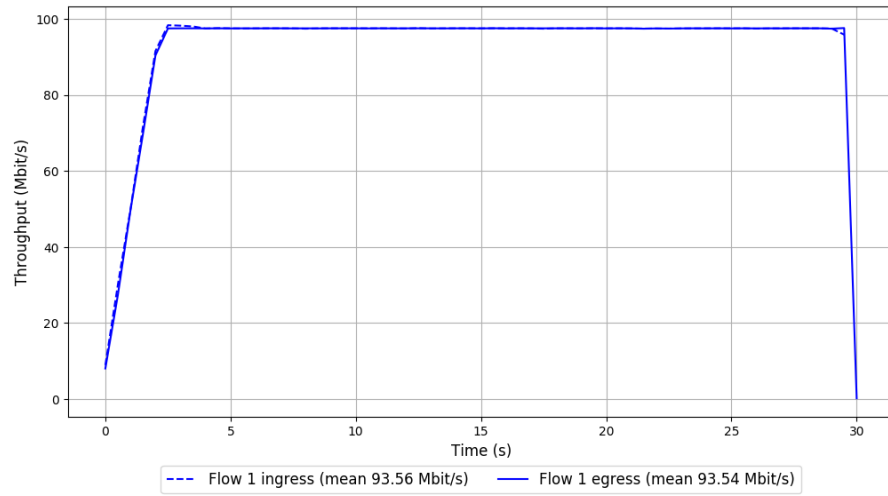


Run 7: Statistics of LEDBAT

Start at: 2017-12-11 12:34:33
End at: 2017-12-11 12:35:03
Local clock offset: -0.14 ms
Remote clock offset: -13.118 ms

Below is generated by plot.py at 2017-12-11 16:33:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.54 Mbit/s
95th percentile per-packet one-way delay: 46.178 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 93.54 Mbit/s
95th percentile per-packet one-way delay: 46.178 ms
Loss rate: 0.12%

Run 7: Report of LEDBAT — Data Link

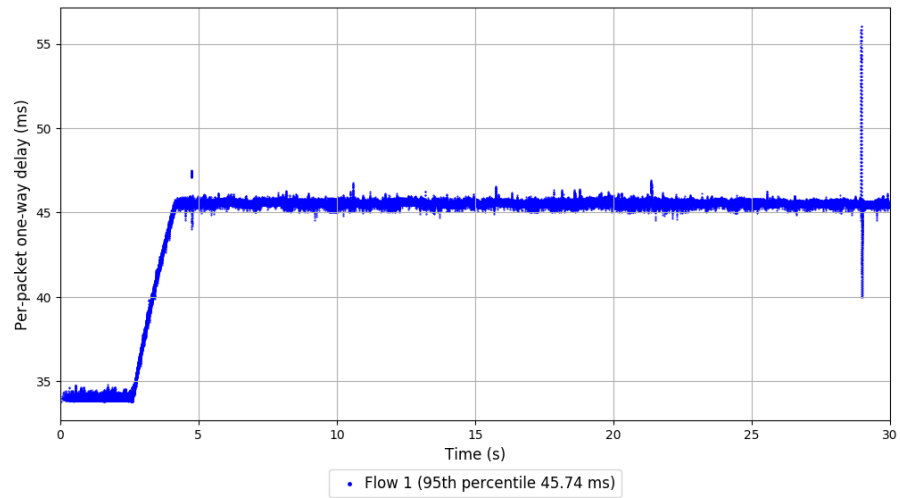
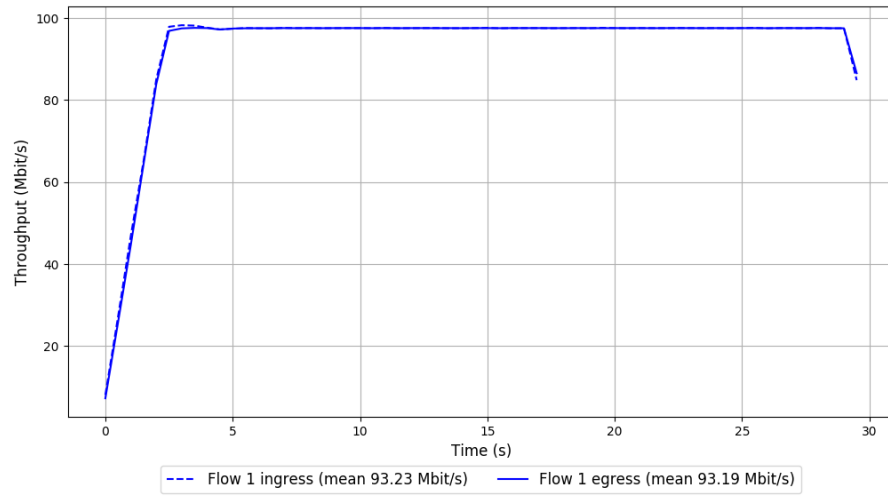


Run 8: Statistics of LEDBAT

Start at: 2017-12-11 12:51:12
End at: 2017-12-11 12:51:42
Local clock offset: 0.57 ms
Remote clock offset: -13.299 ms

Below is generated by plot.py at 2017-12-11 16:33:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.19 Mbit/s
95th percentile per-packet one-way delay: 45.743 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 93.19 Mbit/s
95th percentile per-packet one-way delay: 45.743 ms
Loss rate: 0.13%

Run 8: Report of LEDBAT — Data Link

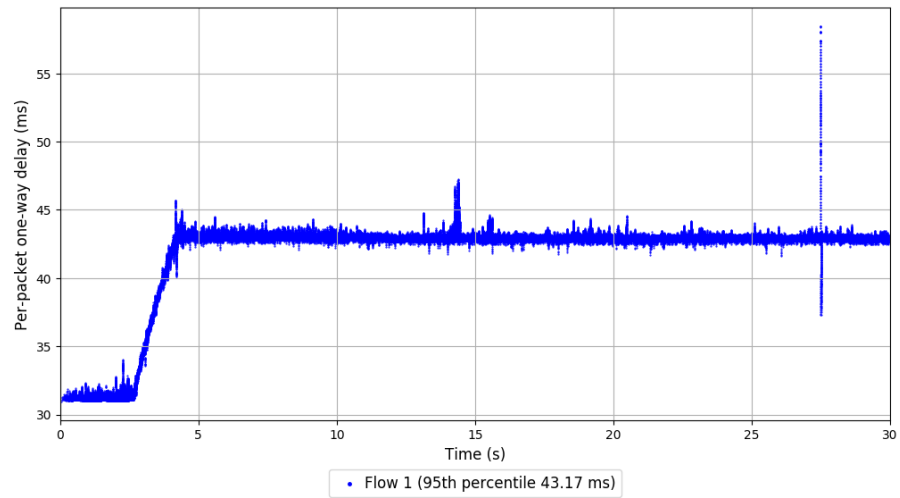
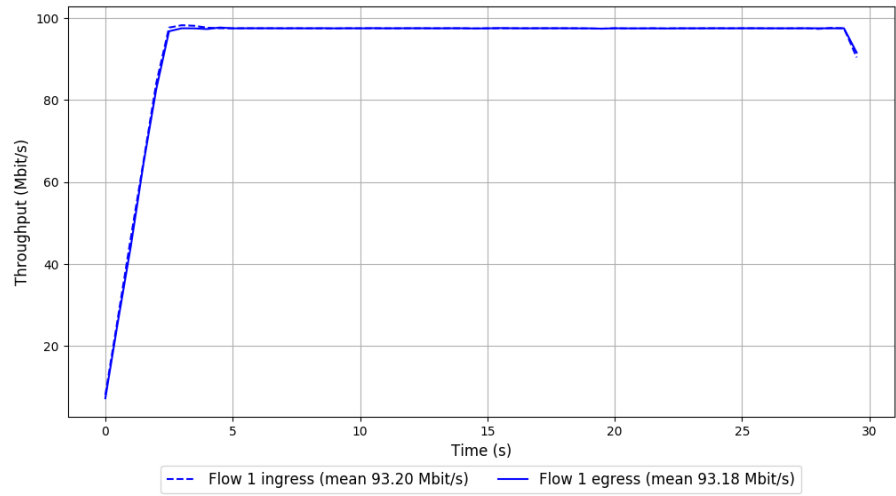


Run 9: Statistics of LEDBAT

Start at: 2017-12-11 13:07:47
End at: 2017-12-11 13:08:17
Local clock offset: -1.183 ms
Remote clock offset: -12.336 ms

Below is generated by plot.py at 2017-12-11 16:34:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.18 Mbit/s
95th percentile per-packet one-way delay: 43.175 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 93.18 Mbit/s
95th percentile per-packet one-way delay: 43.175 ms
Loss rate: 0.13%

Run 9: Report of LEDBAT — Data Link

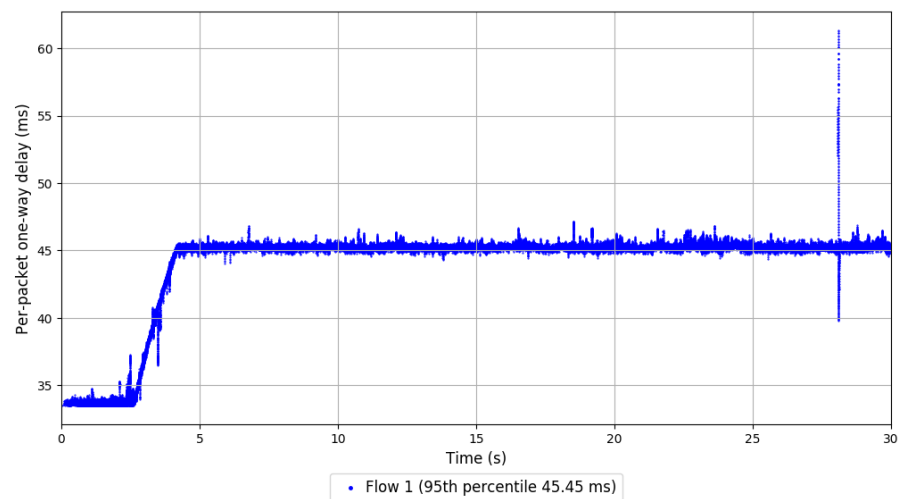
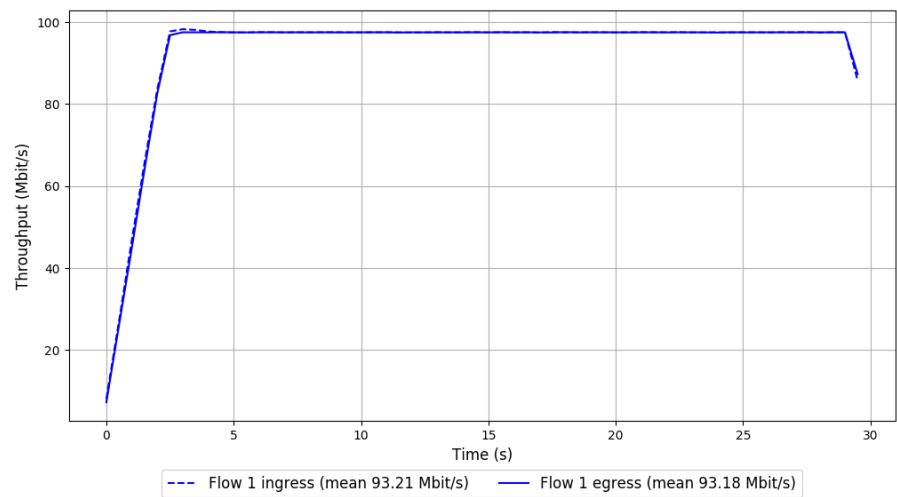


Run 10: Statistics of LEDBAT

Start at: 2017-12-11 13:24:40
End at: 2017-12-11 13:25:10
Local clock offset: 0.162 ms
Remote clock offset: -12.896 ms

Below is generated by plot.py at 2017-12-11 16:34:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.18 Mbit/s
95th percentile per-packet one-way delay: 45.447 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 93.18 Mbit/s
95th percentile per-packet one-way delay: 45.447 ms
Loss rate: 0.13%

Run 10: Report of LEDBAT — Data Link

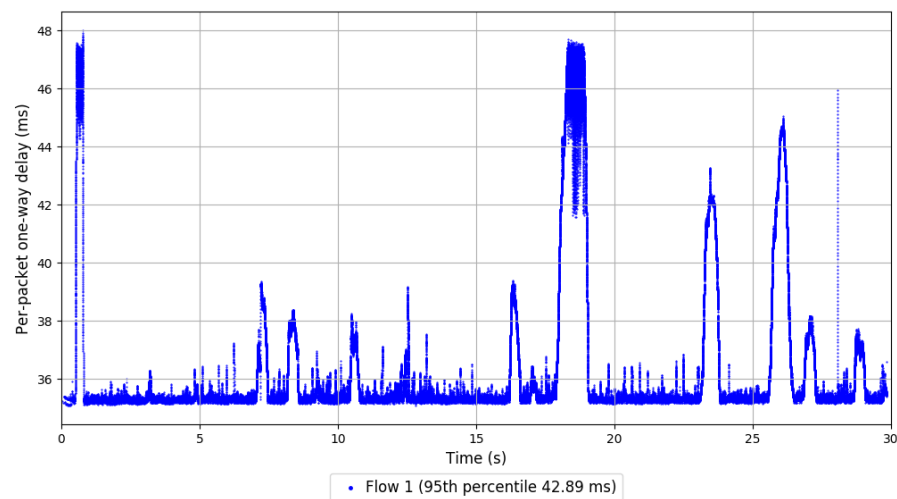
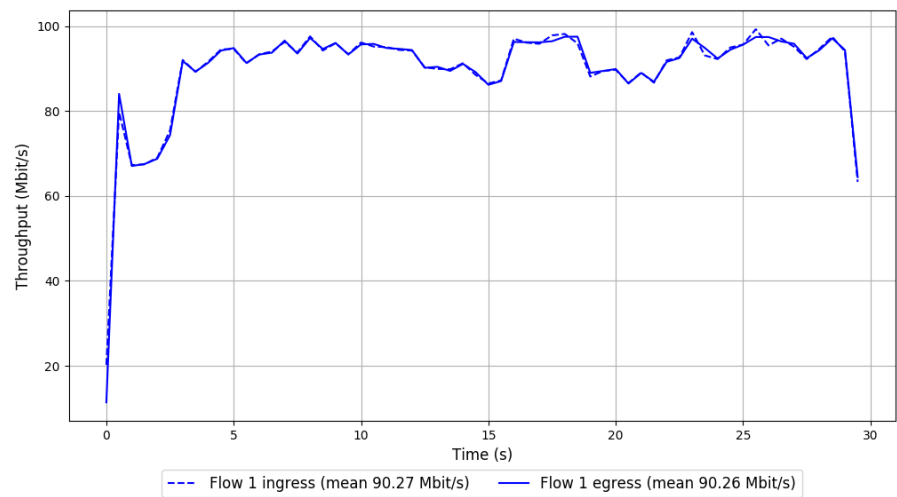


Run 1: Statistics of PCC

Start at: 2017-12-11 10:57:04
End at: 2017-12-11 10:57:34
Local clock offset: 0.47 ms
Remote clock offset: -12.158 ms

Below is generated by plot.py at 2017-12-11 16:34:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.26 Mbit/s
95th percentile per-packet one-way delay: 42.894 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 90.26 Mbit/s
95th percentile per-packet one-way delay: 42.894 ms
Loss rate: 0.10%

Run 1: Report of PCC — Data Link

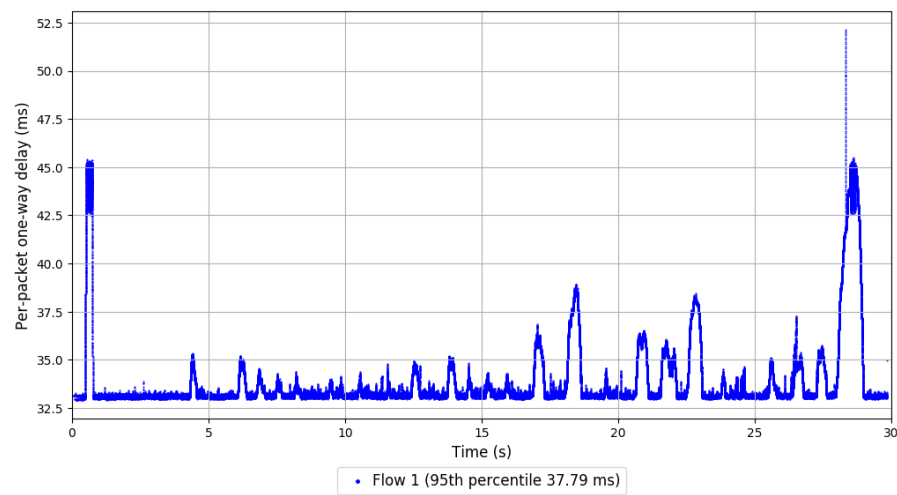
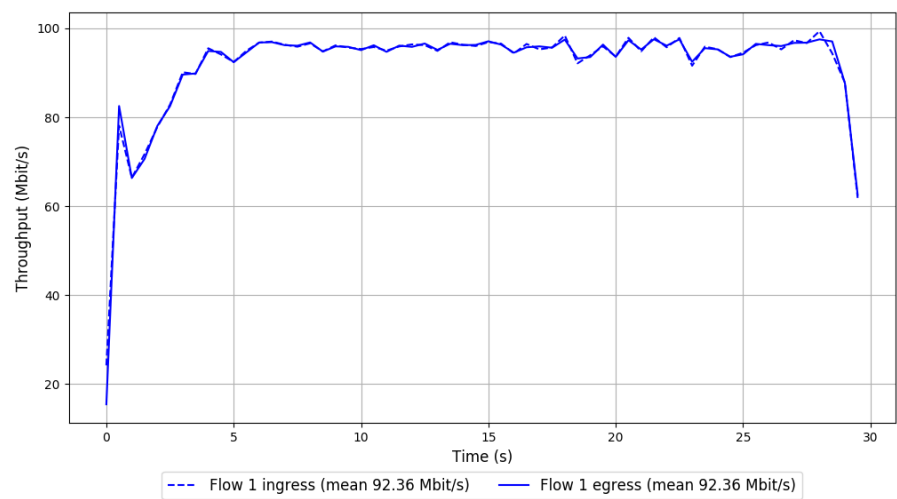


Run 2: Statistics of PCC

Start at: 2017-12-11 11:13:47
End at: 2017-12-11 11:14:17
Local clock offset: -2.398 ms
Remote clock offset: -11.796 ms

Below is generated by plot.py at 2017-12-11 16:34:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.36 Mbit/s
95th percentile per-packet one-way delay: 37.788 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 92.36 Mbit/s
95th percentile per-packet one-way delay: 37.788 ms
Loss rate: 0.10%

Run 2: Report of PCC — Data Link

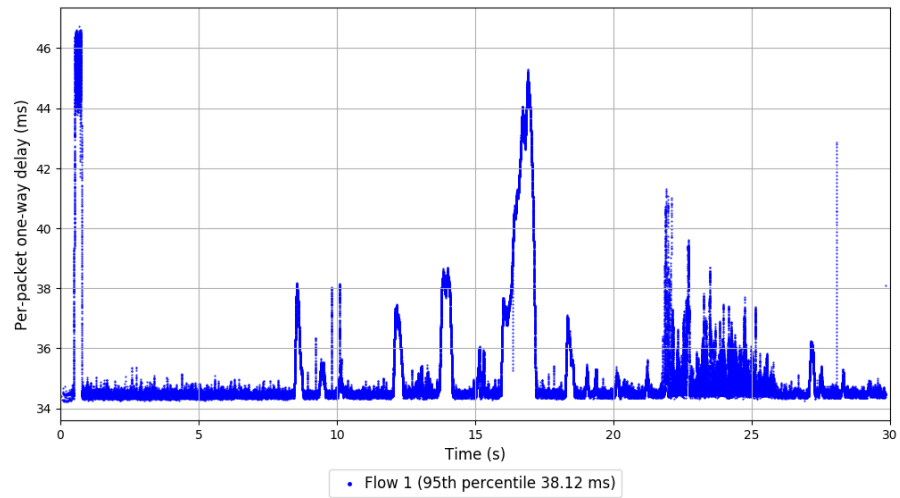
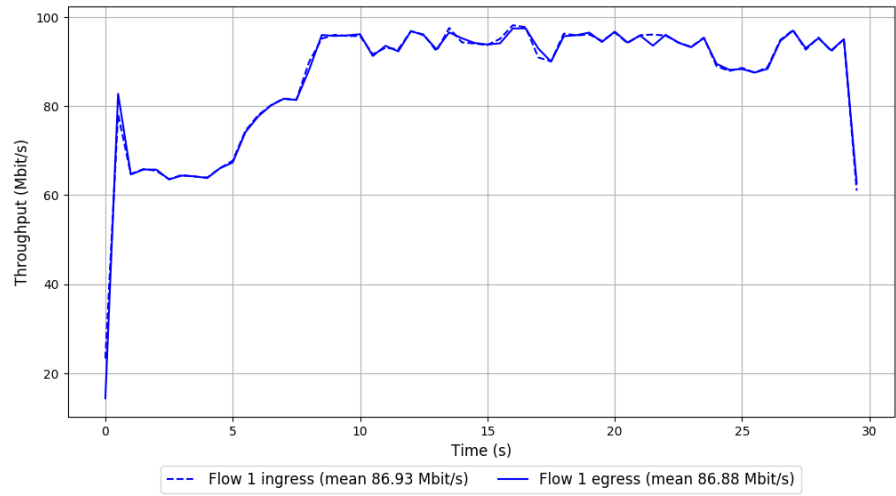


Run 3: Statistics of PCC

Start at: 2017-12-11 11:31:08
End at: 2017-12-11 11:31:38
Local clock offset: 0.216 ms
Remote clock offset: -11.009 ms

Below is generated by plot.py at 2017-12-11 16:34:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.88 Mbit/s
95th percentile per-packet one-way delay: 38.120 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 86.88 Mbit/s
95th percentile per-packet one-way delay: 38.120 ms
Loss rate: 0.14%

Run 3: Report of PCC — Data Link

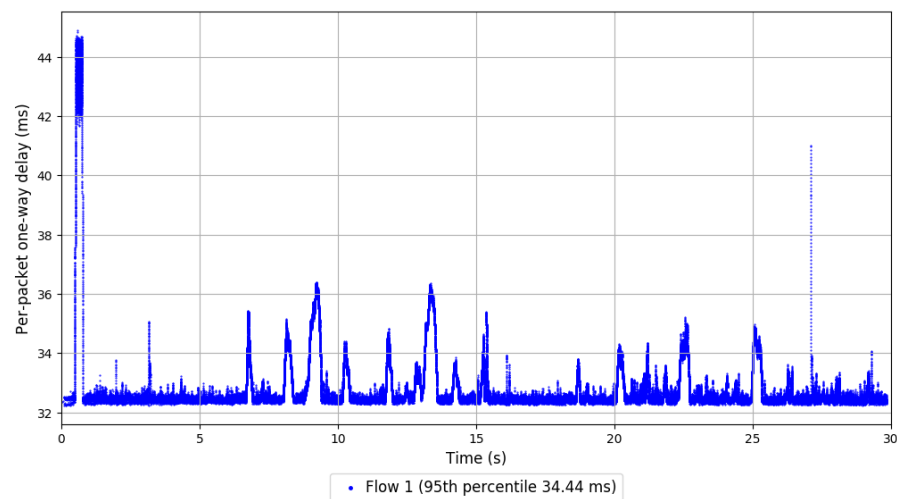
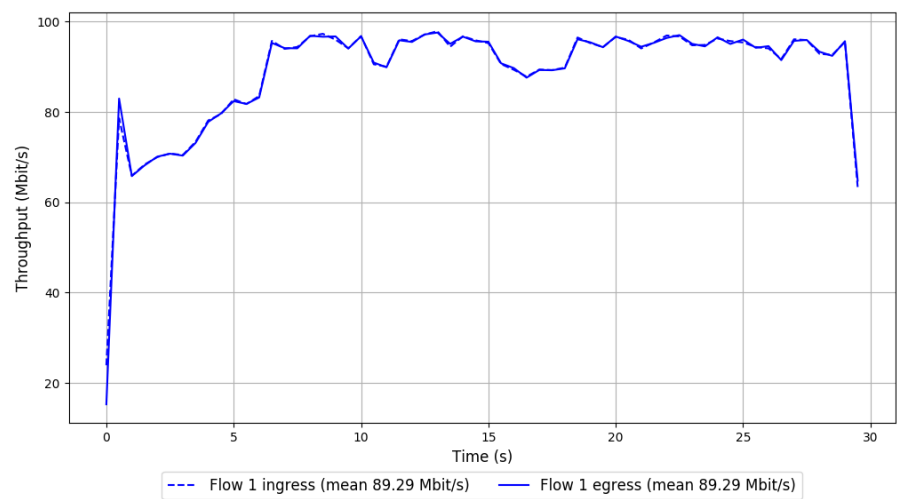


Run 4: Statistics of PCC

Start at: 2017-12-11 11:47:48
End at: 2017-12-11 11:48:18
Local clock offset: -0.928 ms
Remote clock offset: -10.89 ms

Below is generated by plot.py at 2017-12-11 16:34:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.29 Mbit/s
95th percentile per-packet one-way delay: 34.440 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 89.29 Mbit/s
95th percentile per-packet one-way delay: 34.440 ms
Loss rate: 0.08%

Run 4: Report of PCC — Data Link

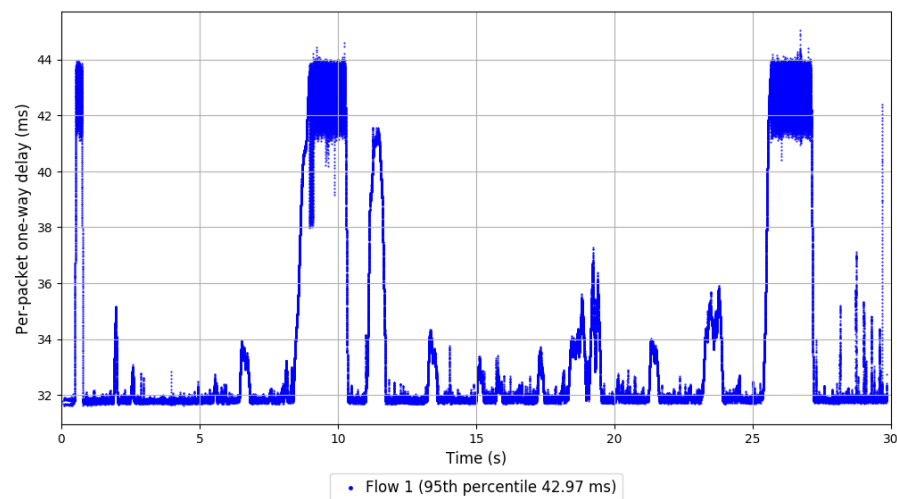
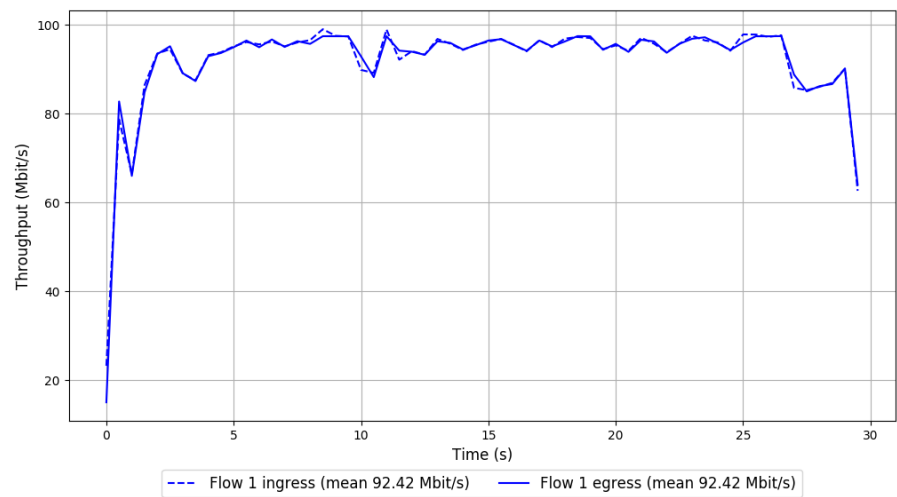


Run 5: Statistics of PCC

Start at: 2017-12-11 12:04:39
End at: 2017-12-11 12:05:09
Local clock offset: -2.198 ms
Remote clock offset: -12.666 ms

Below is generated by plot.py at 2017-12-11 16:34:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.42 Mbit/s
95th percentile per-packet one-way delay: 42.971 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 92.42 Mbit/s
95th percentile per-packet one-way delay: 42.971 ms
Loss rate: 0.08%

Run 5: Report of PCC — Data Link

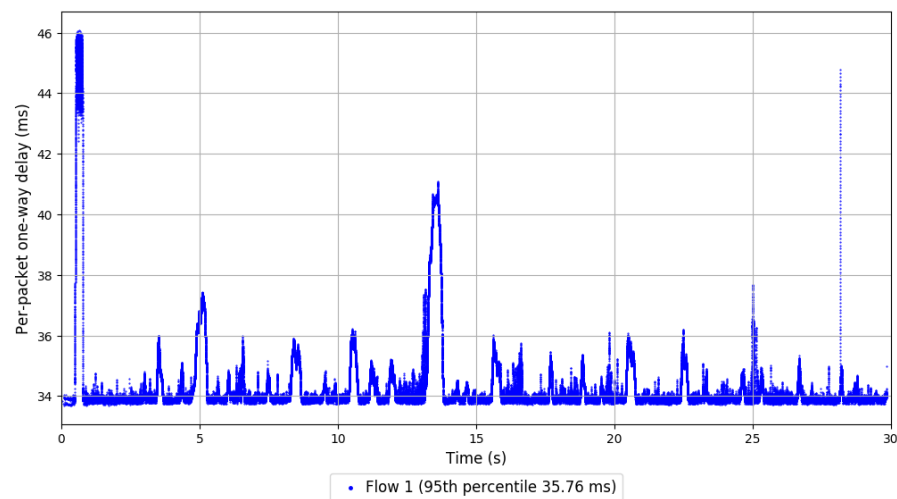
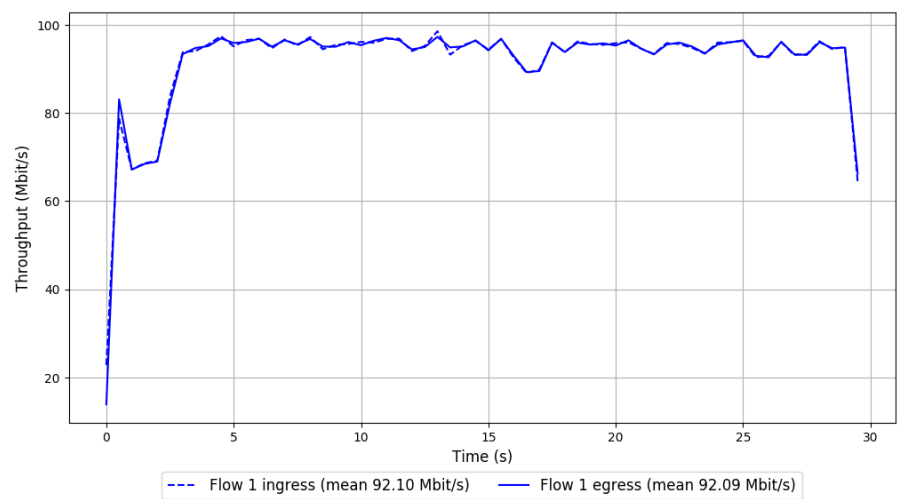


Run 6: Statistics of PCC

Start at: 2017-12-11 12:21:40
End at: 2017-12-11 12:22:10
Local clock offset: -1.579 ms
Remote clock offset: -13.327 ms

Below is generated by plot.py at 2017-12-11 16:35:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.09 Mbit/s
95th percentile per-packet one-way delay: 35.759 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 92.09 Mbit/s
95th percentile per-packet one-way delay: 35.759 ms
Loss rate: 0.08%

Run 6: Report of PCC — Data Link

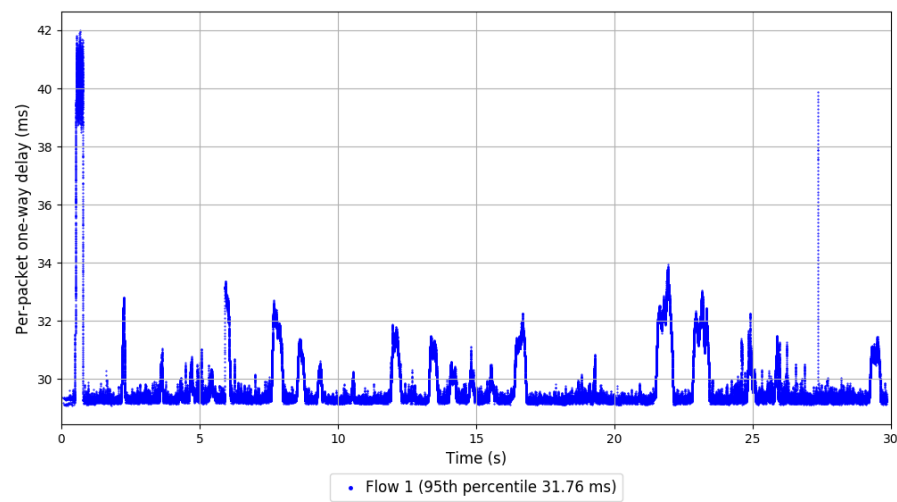
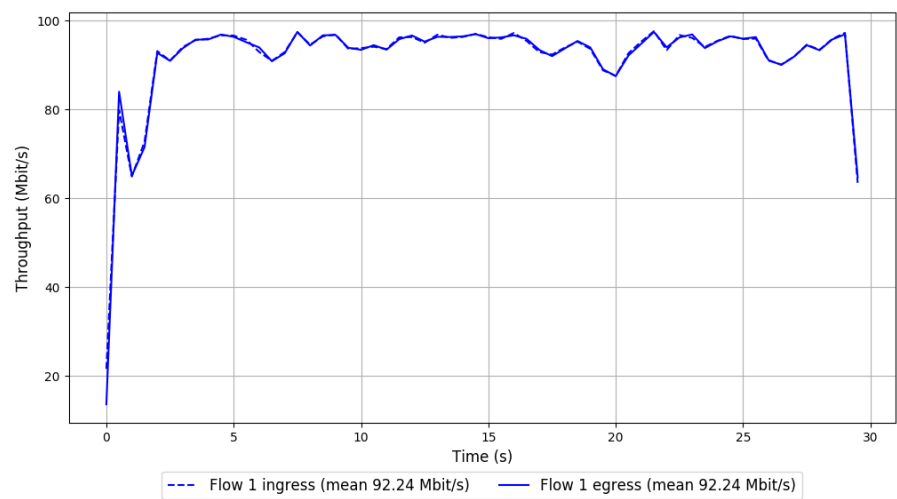


Run 7: Statistics of PCC

Start at: 2017-12-11 12:38:15
End at: 2017-12-11 12:38:45
Local clock offset: -3.317 ms
Remote clock offset: -11.913 ms

Below is generated by plot.py at 2017-12-11 16:35:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.24 Mbit/s
95th percentile per-packet one-way delay: 31.764 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 92.24 Mbit/s
95th percentile per-packet one-way delay: 31.764 ms
Loss rate: 0.09%

Run 7: Report of PCC — Data Link

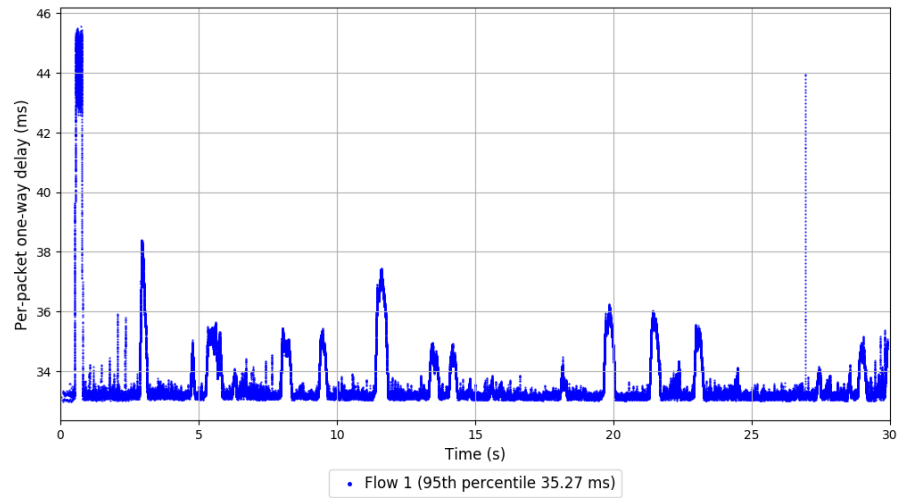
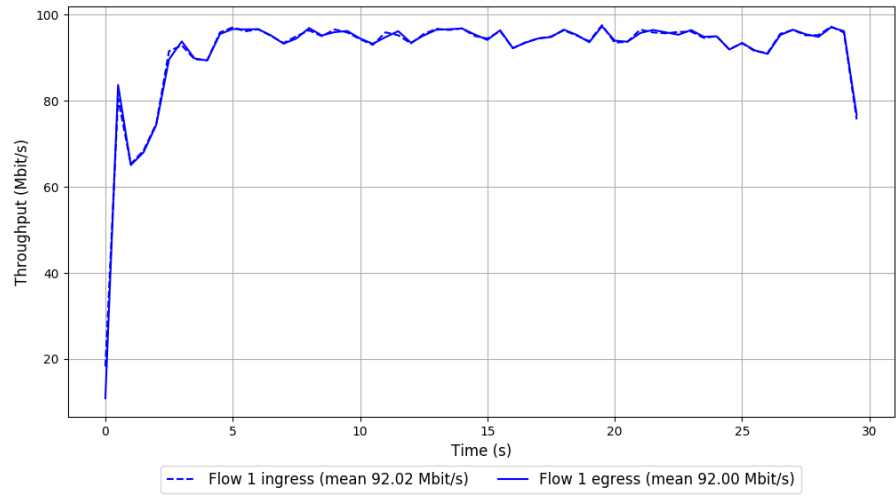


Run 8: Statistics of PCC

Start at: 2017-12-11 12:54:44
End at: 2017-12-11 12:55:14
Local clock offset: -1.547 ms
Remote clock offset: -14.958 ms

Below is generated by plot.py at 2017-12-11 16:35:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.00 Mbit/s
95th percentile per-packet one-way delay: 35.273 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 92.00 Mbit/s
95th percentile per-packet one-way delay: 35.273 ms
Loss rate: 0.10%

Run 8: Report of PCC — Data Link

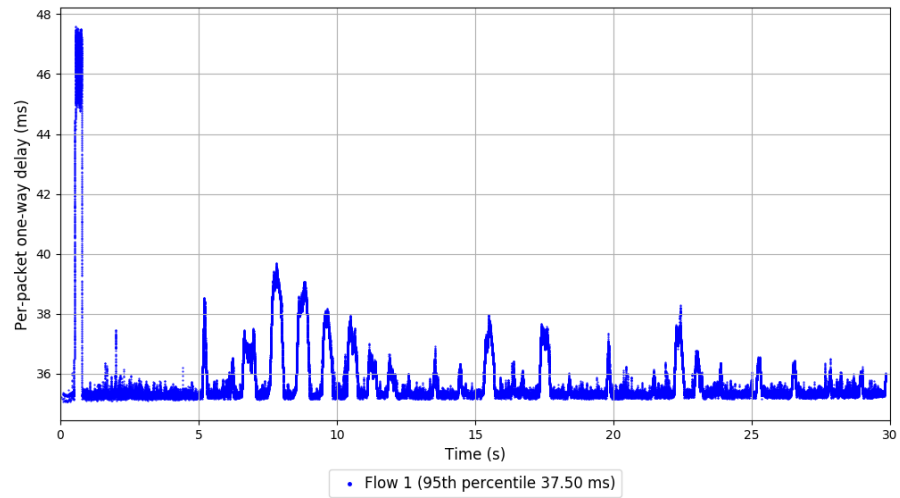
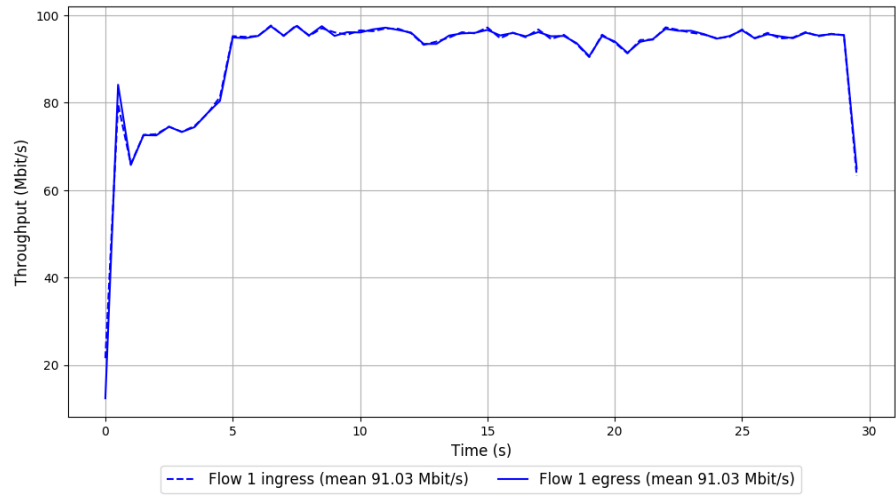


Run 9: Statistics of PCC

Start at: 2017-12-11 13:11:50
End at: 2017-12-11 13:12:20
Local clock offset: 0.128 ms
Remote clock offset: -14.994 ms

Below is generated by plot.py at 2017-12-11 16:35:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.03 Mbit/s
95th percentile per-packet one-way delay: 37.502 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 91.03 Mbit/s
95th percentile per-packet one-way delay: 37.502 ms
Loss rate: 0.09%

Run 9: Report of PCC — Data Link

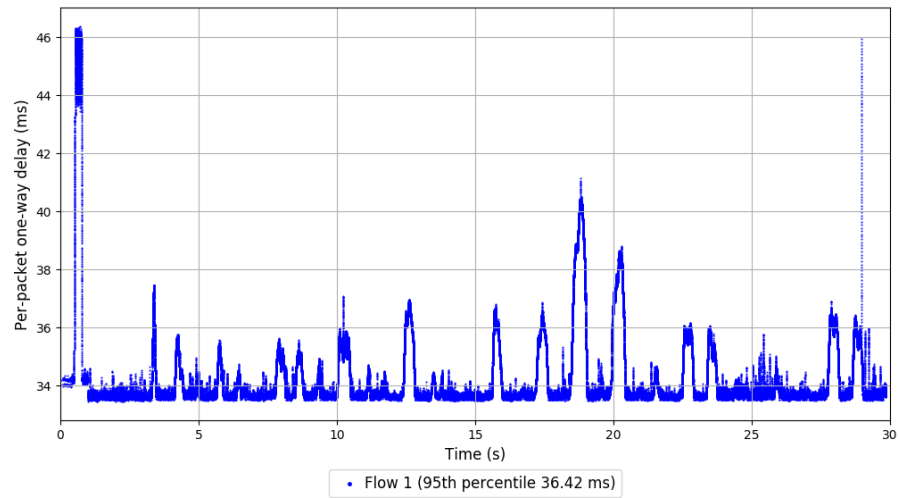
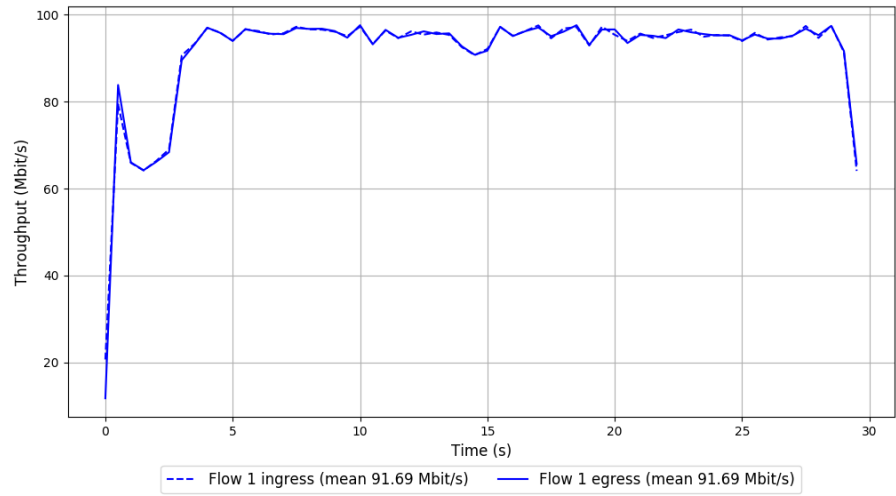


Run 10: Statistics of PCC

Start at: 2017-12-11 13:28:50
End at: 2017-12-11 13:29:20
Local clock offset: 0.42 ms
Remote clock offset: -12.918 ms

Below is generated by plot.py at 2017-12-11 16:35:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.69 Mbit/s
95th percentile per-packet one-way delay: 36.419 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 91.69 Mbit/s
95th percentile per-packet one-way delay: 36.419 ms
Loss rate: 0.08%

Run 10: Report of PCC — Data Link

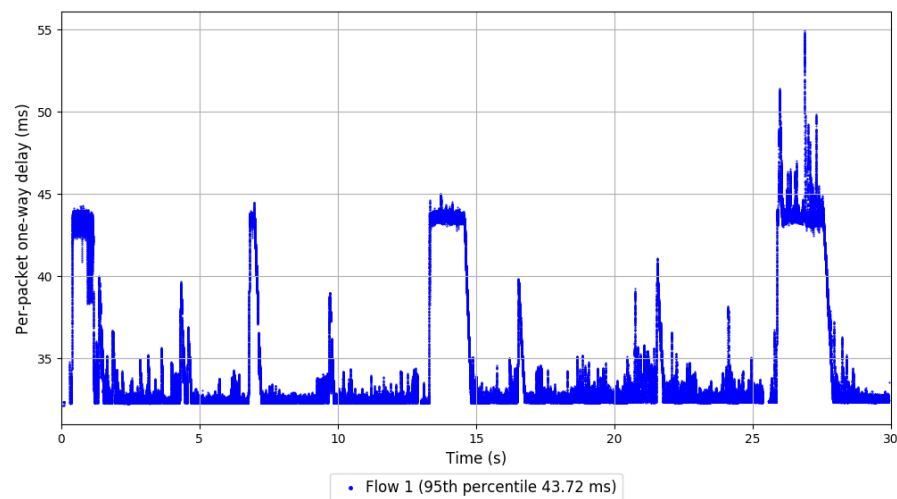
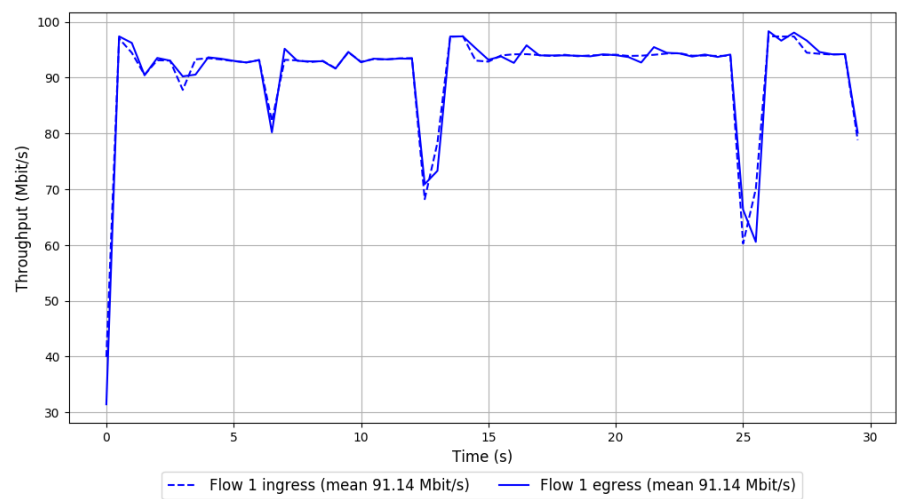


Run 1: Statistics of QUIC Cubic

Start at: 2017-12-11 10:49:46
End at: 2017-12-11 10:50:16
Local clock offset: -1.426 ms
Remote clock offset: -11.847 ms

Below is generated by plot.py at 2017-12-11 16:35:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.14 Mbit/s
95th percentile per-packet one-way delay: 43.724 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 91.14 Mbit/s
95th percentile per-packet one-way delay: 43.724 ms
Loss rate: 0.09%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

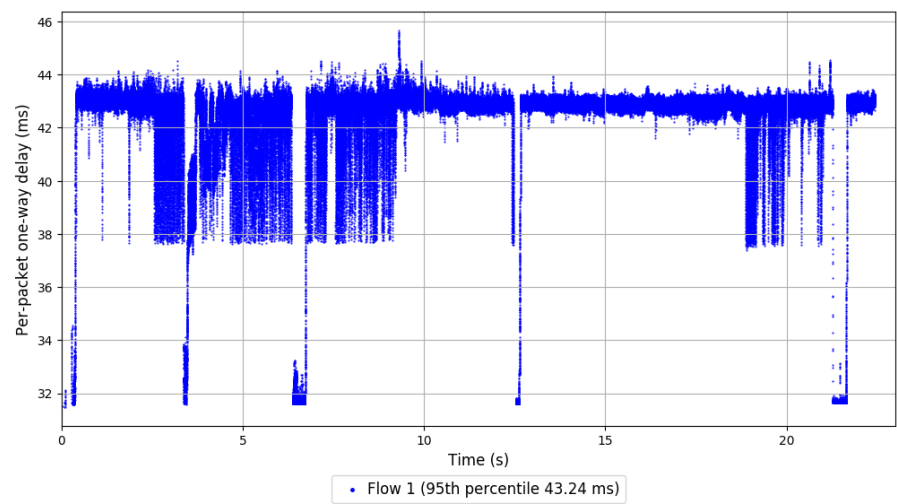
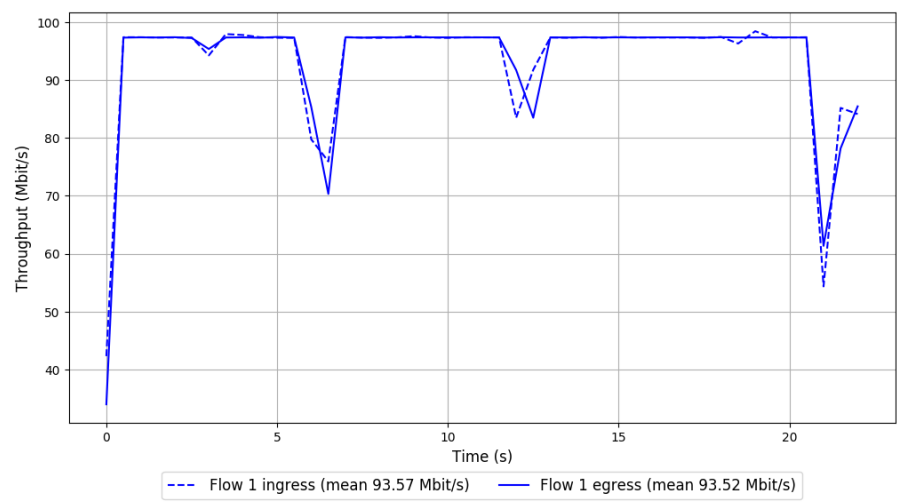
Start at: 2017-12-11 11:06:24

End at: 2017-12-11 11:06:54

Local clock offset: -2.925 ms

Remote clock offset: -10.972 ms

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-12-11 11:23:35

End at: 2017-12-11 11:24:05

Local clock offset: 0.764 ms

Remote clock offset: -9.685 ms

Below is generated by plot.py at 2017-12-11 16:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.41 Mbit/s

95th percentile per-packet one-way delay: 45.258 ms

Loss rate: 0.12%

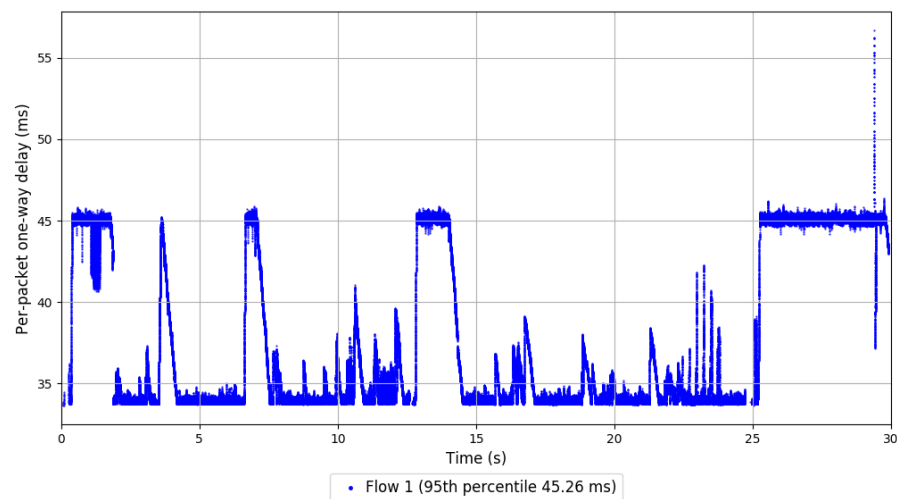
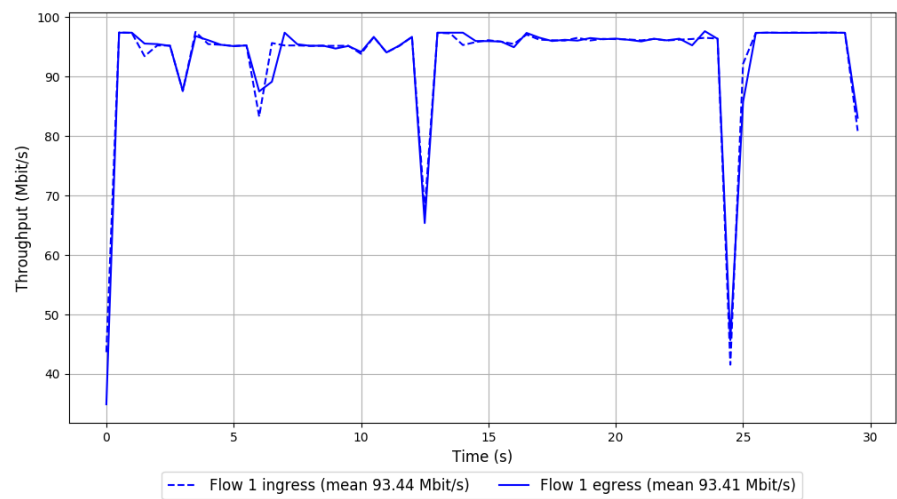
-- Flow 1:

Average throughput: 93.41 Mbit/s

95th percentile per-packet one-way delay: 45.258 ms

Loss rate: 0.12%

Run 3: Report of QUIC Cubic — Data Link

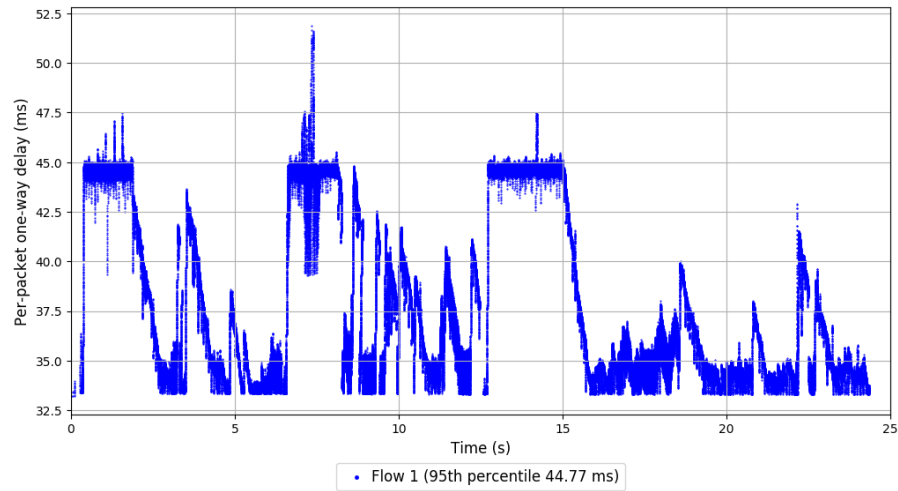
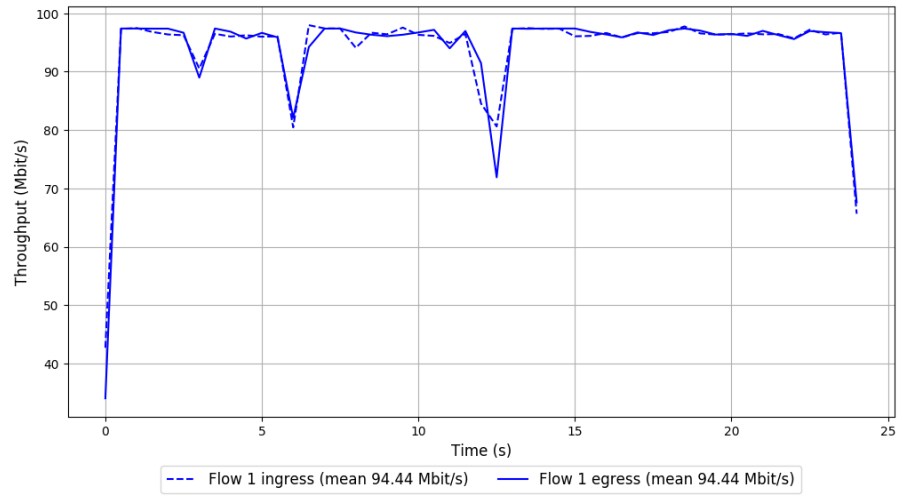


Run 4: Statistics of QUIC Cubic

Start at: 2017-12-11 11:40:31
End at: 2017-12-11 11:41:01
Local clock offset: 0.95 ms
Remote clock offset: -9.336 ms

Below is generated by plot.py at 2017-12-11 16:36:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.44 Mbit/s
95th percentile per-packet one-way delay: 44.768 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 94.44 Mbit/s
95th percentile per-packet one-way delay: 44.768 ms
Loss rate: 0.10%

Run 4: Report of QUIC Cubic — Data Link

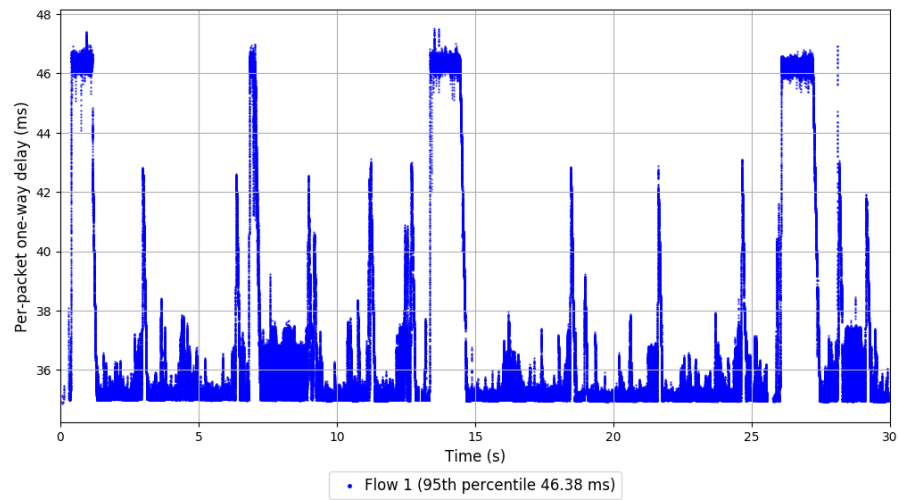
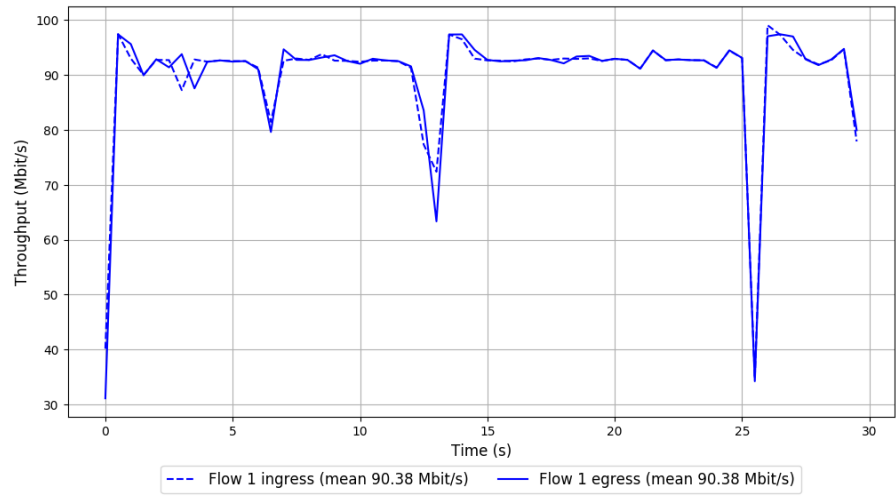


Run 5: Statistics of QUIC Cubic

Start at: 2017-12-11 11:57:20
End at: 2017-12-11 11:57:50
Local clock offset: 1.599 ms
Remote clock offset: -12.165 ms

Below is generated by plot.py at 2017-12-11 16:37:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.38 Mbit/s
95th percentile per-packet one-way delay: 46.384 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 90.38 Mbit/s
95th percentile per-packet one-way delay: 46.384 ms
Loss rate: 0.08%

Run 5: Report of QUIC Cubic — Data Link

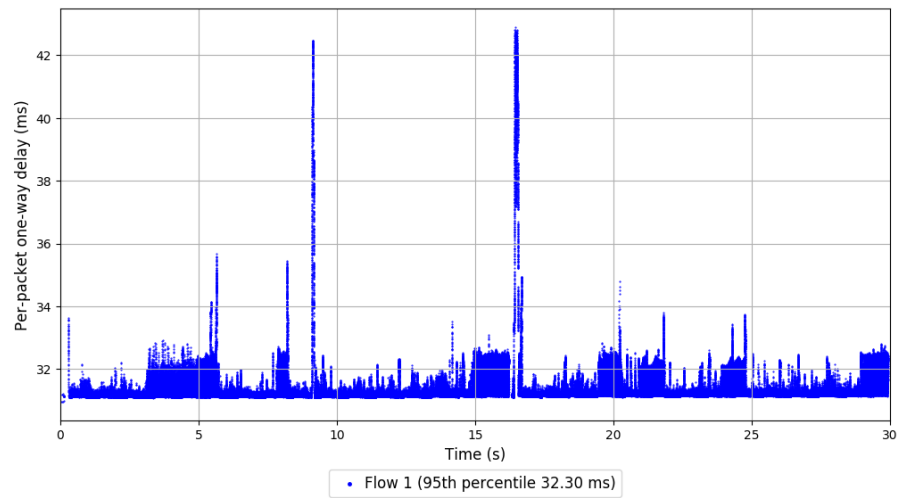
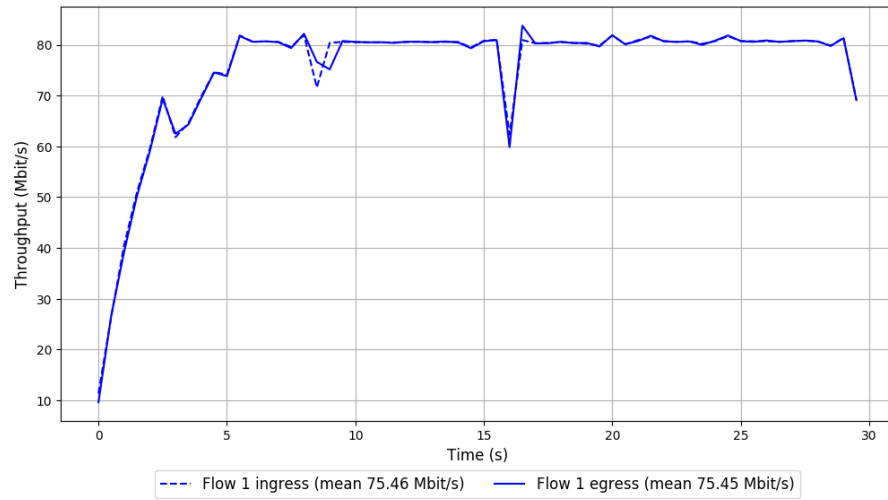


Run 6: Statistics of QUIC Cubic

Start at: 2017-12-11 12:14:21
End at: 2017-12-11 12:14:51
Local clock offset: -1.985 ms
Remote clock offset: -11.54 ms

Below is generated by plot.py at 2017-12-11 16:37:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 75.45 Mbit/s
95th percentile per-packet one-way delay: 32.295 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 75.45 Mbit/s
95th percentile per-packet one-way delay: 32.295 ms
Loss rate: 0.11%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

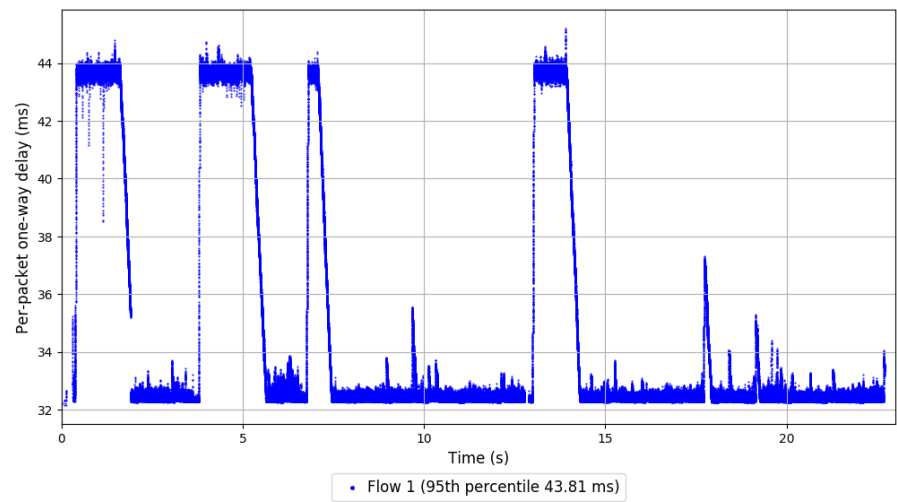
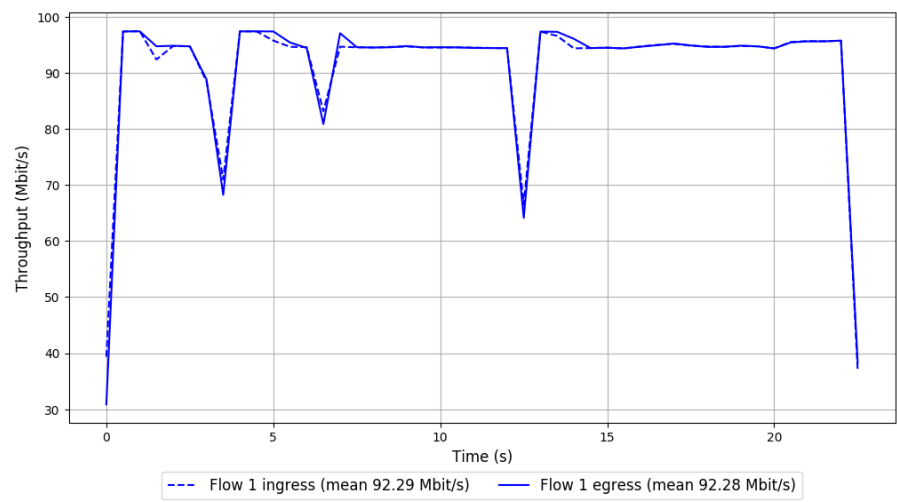
Start at: 2017-12-11 12:31:07

End at: 2017-12-11 12:31:37

Local clock offset: -2.196 ms

Remote clock offset: -13.185 ms

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

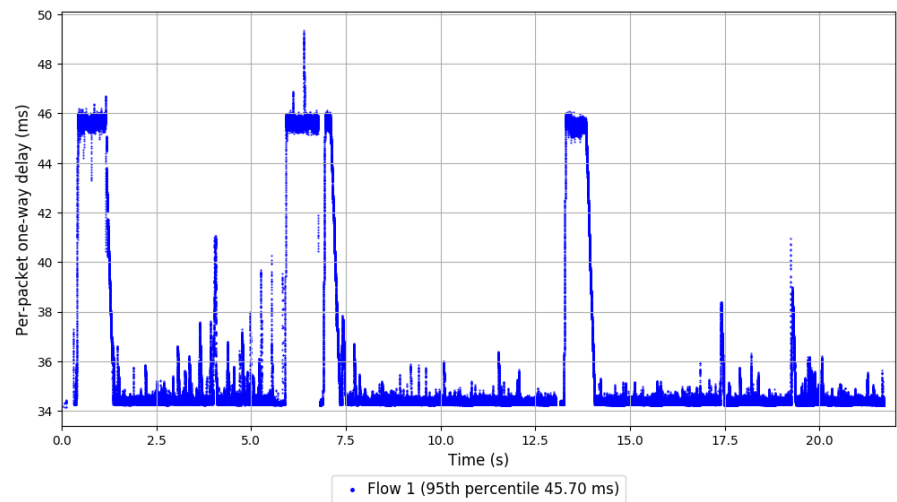
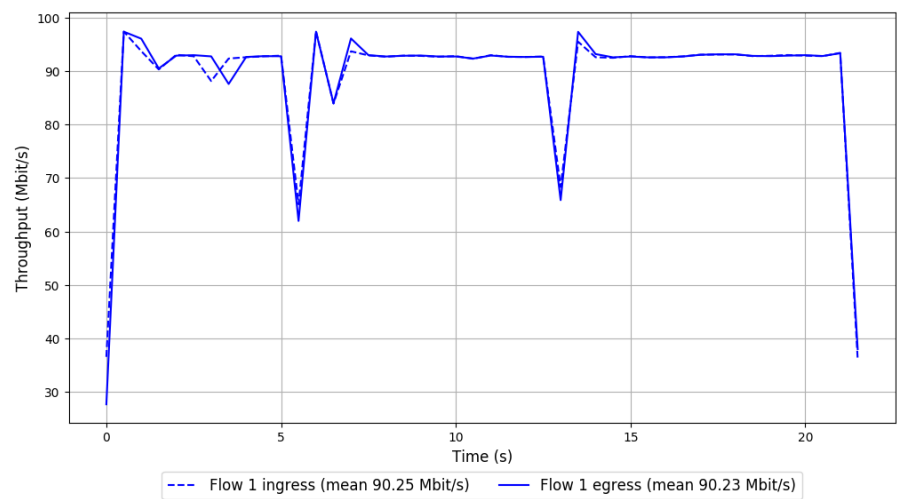
Start at: 2017-12-11 12:47:43

End at: 2017-12-11 12:48:13

Local clock offset: -0.336 ms

Remote clock offset: -14.239 ms

Run 8: Report of QUIC Cubic — Data Link

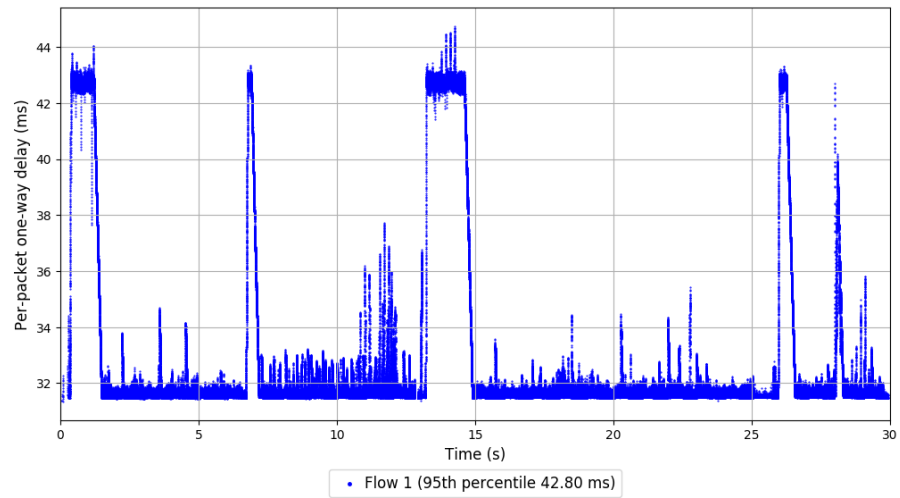
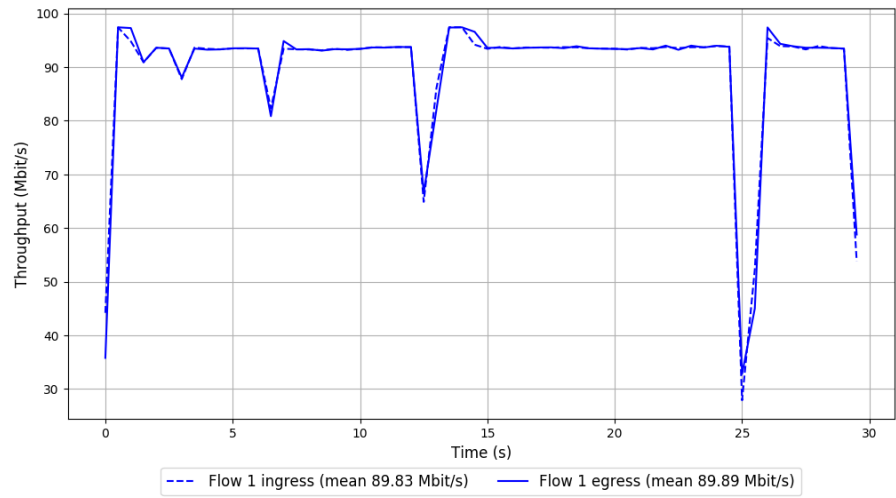


Run 9: Statistics of QUIC Cubic

Start at: 2017-12-11 13:04:21
End at: 2017-12-11 13:04:51
Local clock offset: -2.378 ms
Remote clock offset: -14.054 ms

Below is generated by plot.py at 2017-12-11 16:37:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.89 Mbit/s
95th percentile per-packet one-way delay: 42.798 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 89.89 Mbit/s
95th percentile per-packet one-way delay: 42.798 ms
Loss rate: 0.02%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

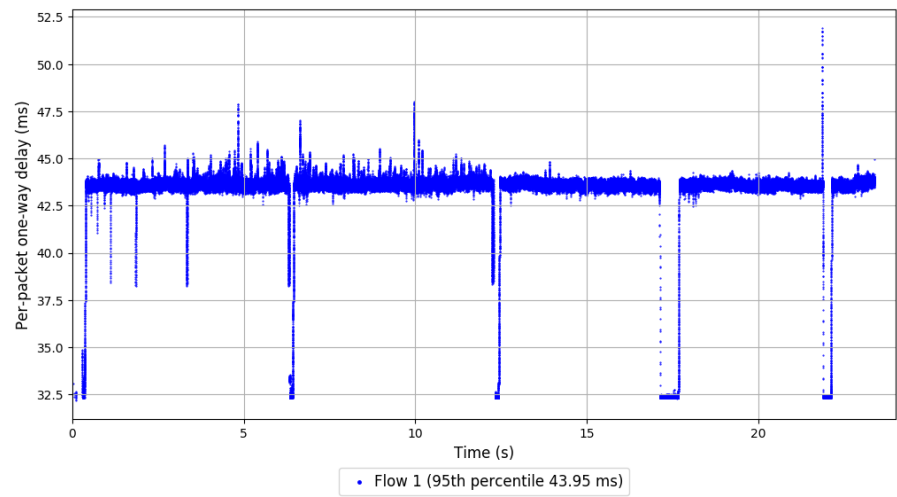
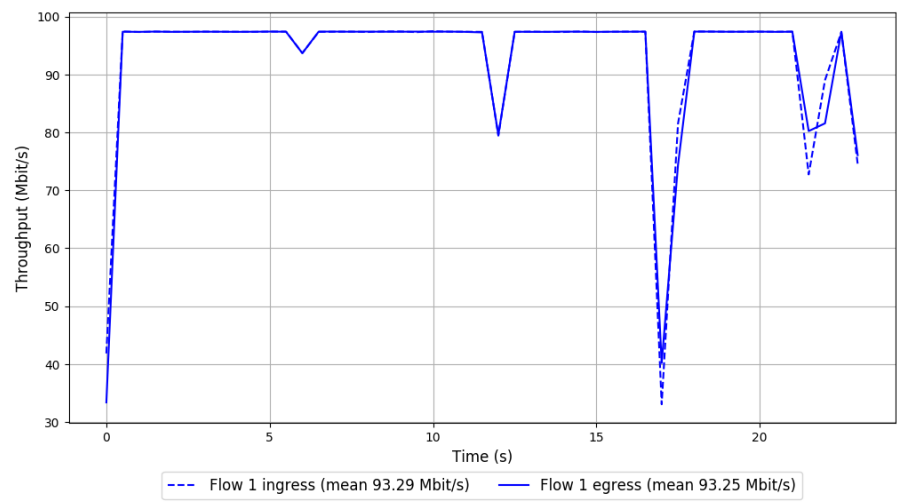
Start at: 2017-12-11 13:21:10

End at: 2017-12-11 13:21:40

Local clock offset: -0.752 ms

Remote clock offset: -12.564 ms

Run 10: Report of QUIC Cubic — Data Link

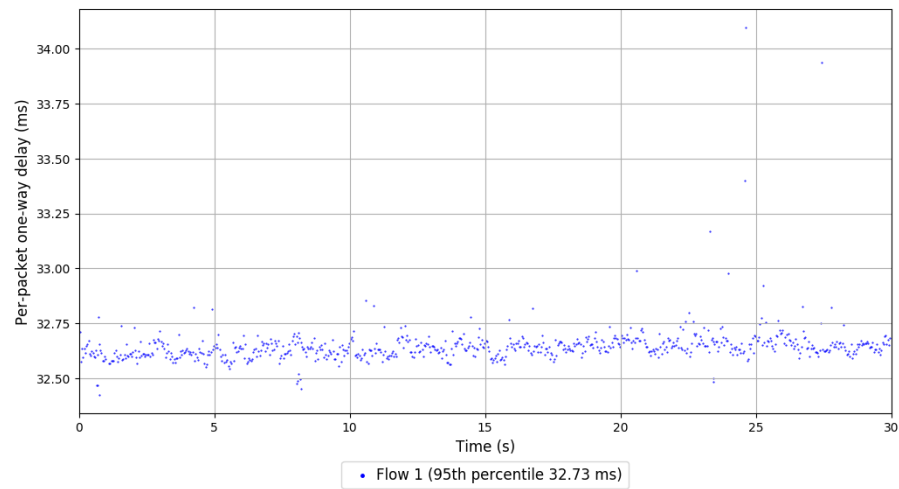
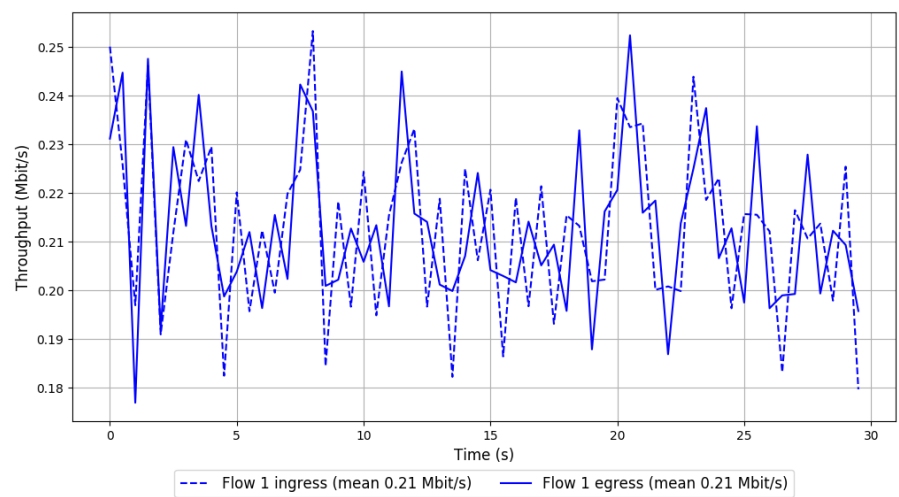


```
Run 1: Statistics of SCReAM

Start at: 2017-12-11 10:59:29
End at: 2017-12-11 10:59:59
Local clock offset: -1.926 ms
Remote clock offset: -11.749 ms

# Below is generated by plot.py at 2017-12-11 16:37:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 32.725 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 32.725 ms
Loss rate: 0.00%
```

Run 1: Report of SCRaM — Data Link

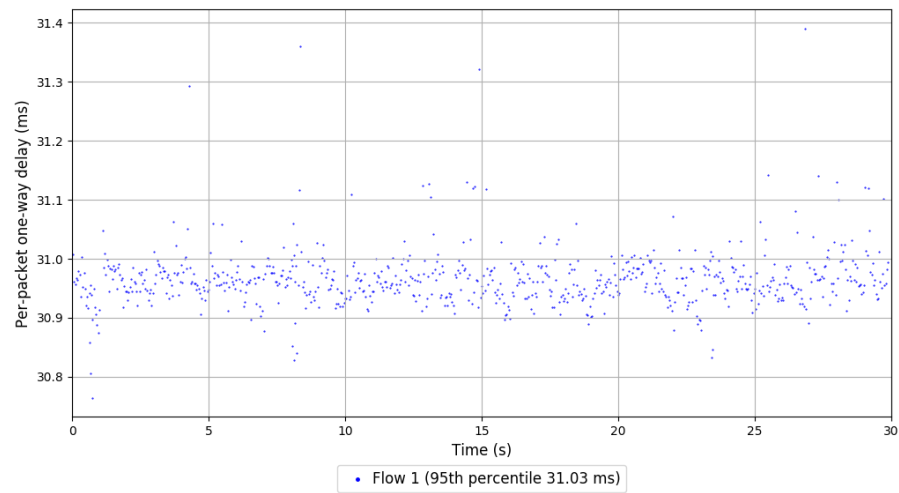
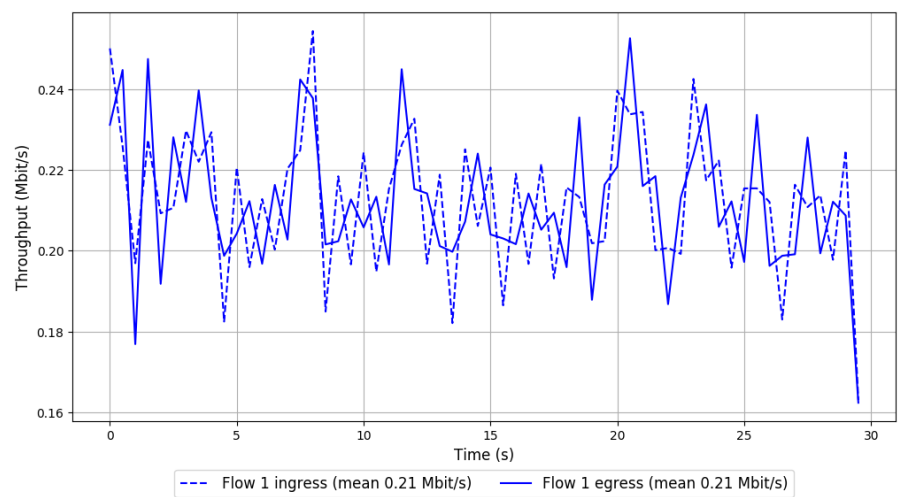


Run 2: Statistics of SCReAM

Start at: 2017-12-11 11:16:14
End at: 2017-12-11 11:16:44
Local clock offset: -3.17 ms
Remote clock offset: -10.411 ms

Below is generated by plot.py at 2017-12-11 16:37:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.031 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.031 ms
Loss rate: 0.13%

Run 2: Report of SReAM — Data Link

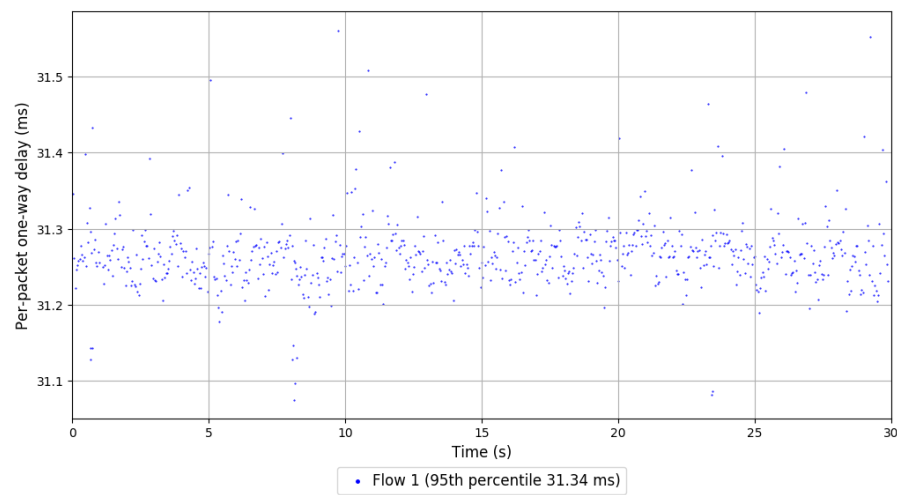
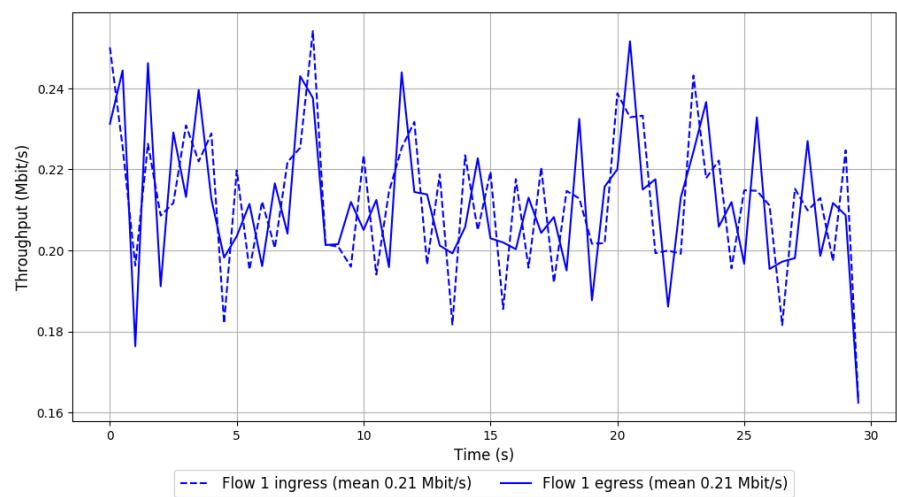


Run 3: Statistics of SCReAM

Start at: 2017-12-11 11:33:33
End at: 2017-12-11 11:34:03
Local clock offset: -2.376 ms
Remote clock offset: -10.236 ms

Below is generated by plot.py at 2017-12-11 16:37:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.343 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.343 ms
Loss rate: 0.13%

Run 3: Report of SCRaM — Data Link

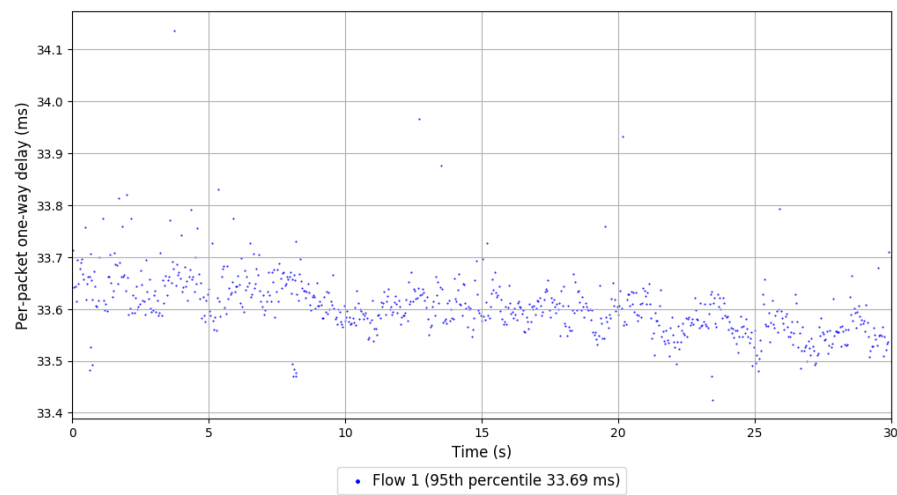
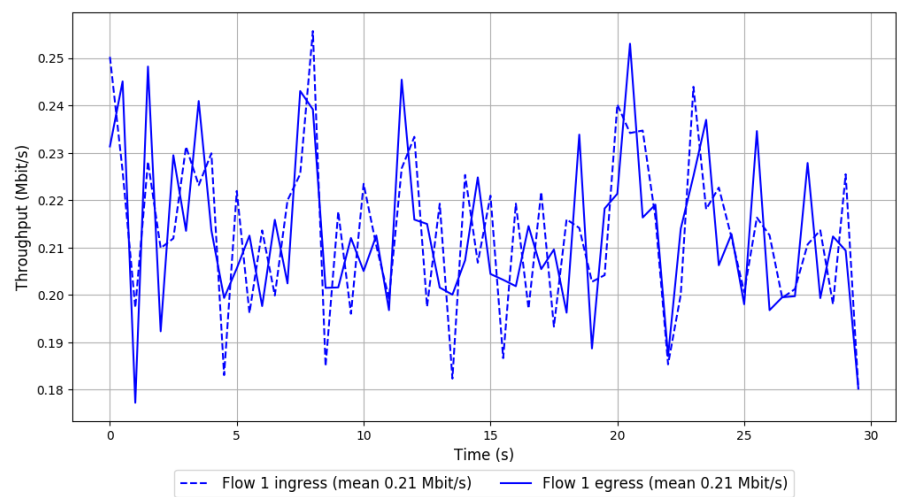


Run 4: Statistics of SCReAM

Start at: 2017-12-11 11:50:15
End at: 2017-12-11 11:50:45
Local clock offset: -0.172 ms
Remote clock offset: -11.691 ms

Below is generated by plot.py at 2017-12-11 16:37:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 33.693 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 33.693 ms
Loss rate: 0.13%

Run 4: Report of SReAM — Data Link

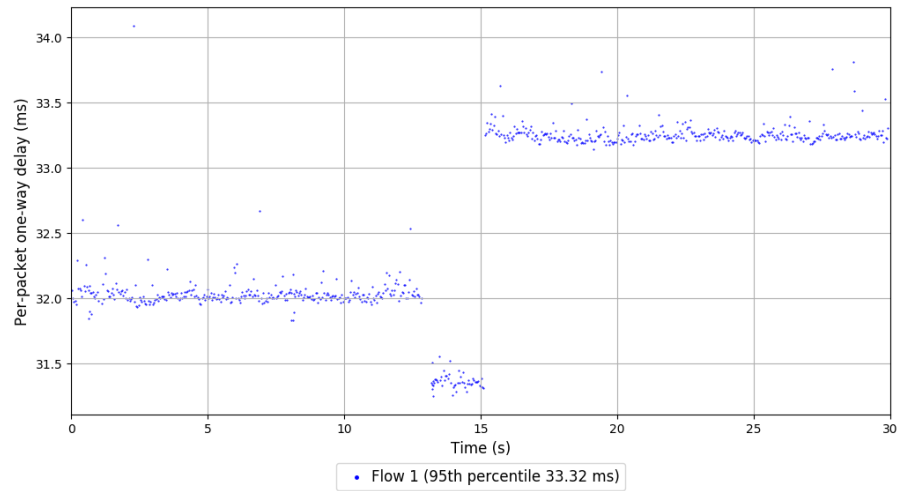
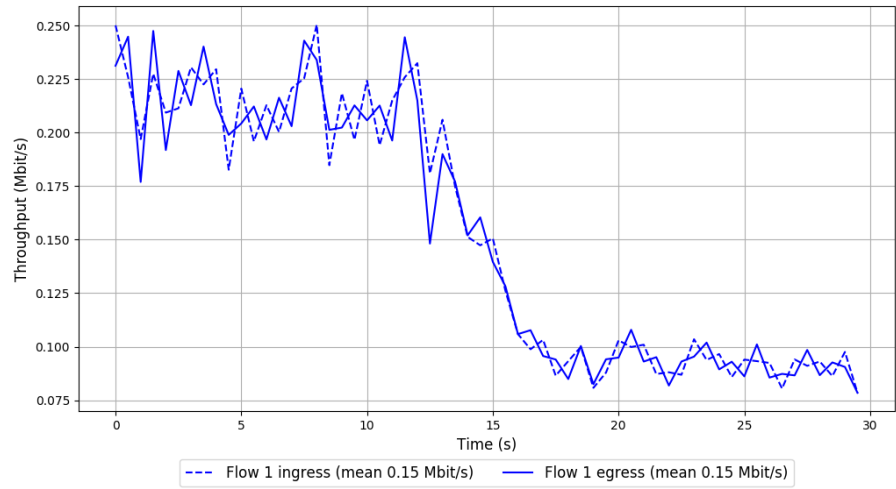


Run 5: Statistics of SCReAM

Start at: 2017-12-11 12:07:11
End at: 2017-12-11 12:07:41
Local clock offset: 0.235 ms
Remote clock offset: -10.347 ms

Below is generated by plot.py at 2017-12-11 16:37:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 33.316 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 33.316 ms
Loss rate: 0.63%

Run 5: Report of SReAM — Data Link

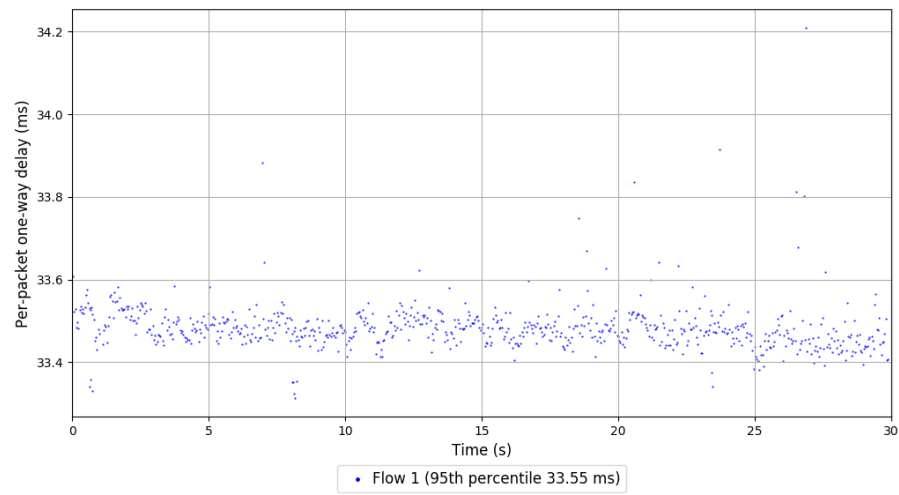
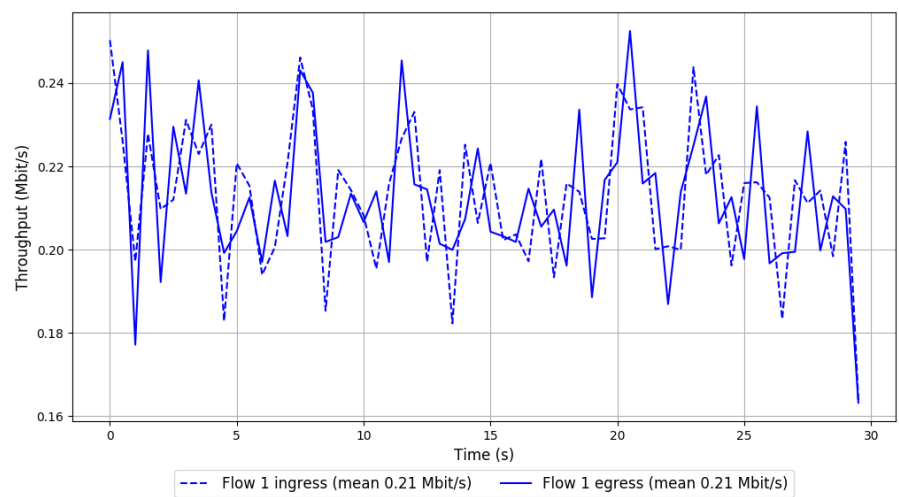


Run 6: Statistics of SCReAM

Start at: 2017-12-11 12:24:05
End at: 2017-12-11 12:24:35
Local clock offset: 0.841 ms
Remote clock offset: -10.753 ms

Below is generated by plot.py at 2017-12-11 16:37:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 33.545 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 33.545 ms
Loss rate: 0.13%

Run 6: Report of SReAM — Data Link

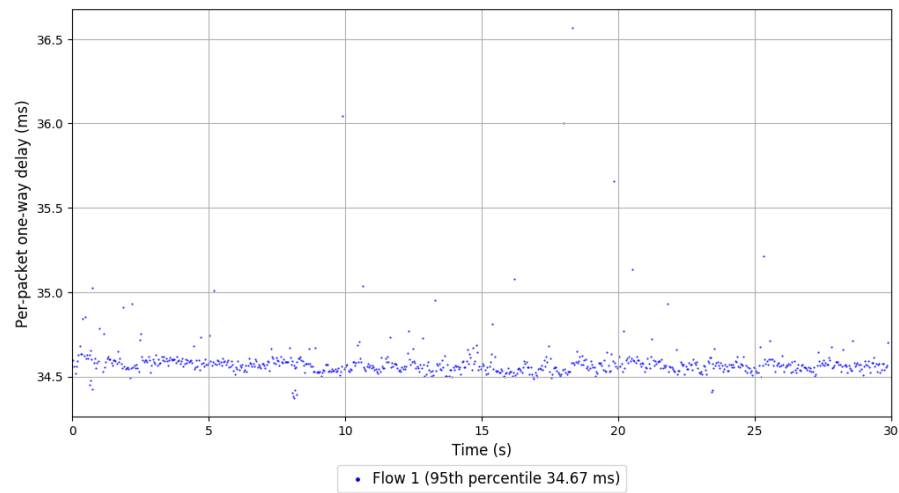
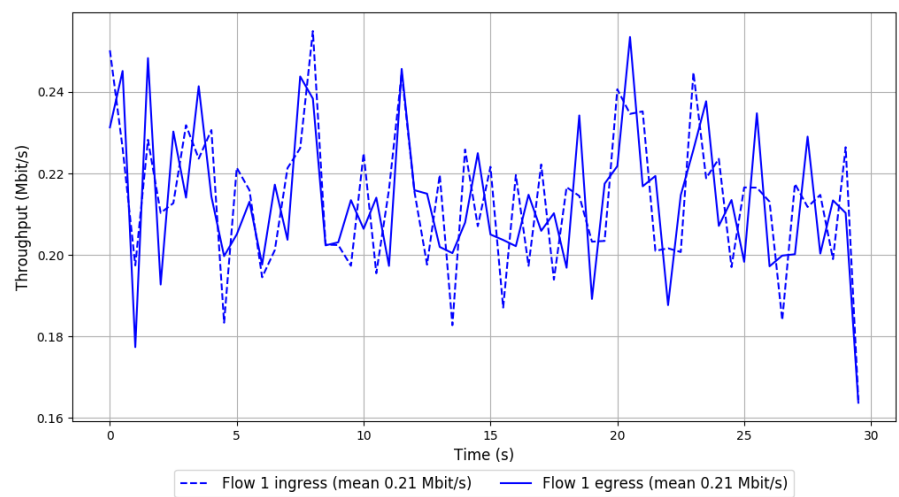


Run 7: Statistics of SCReAM

Start at: 2017-12-11 12:40:55
End at: 2017-12-11 12:41:25
Local clock offset: 0.734 ms
Remote clock offset: -13.327 ms

Below is generated by plot.py at 2017-12-11 16:37:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 34.674 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 34.674 ms
Loss rate: 0.13%

Run 7: Report of SReAM — Data Link

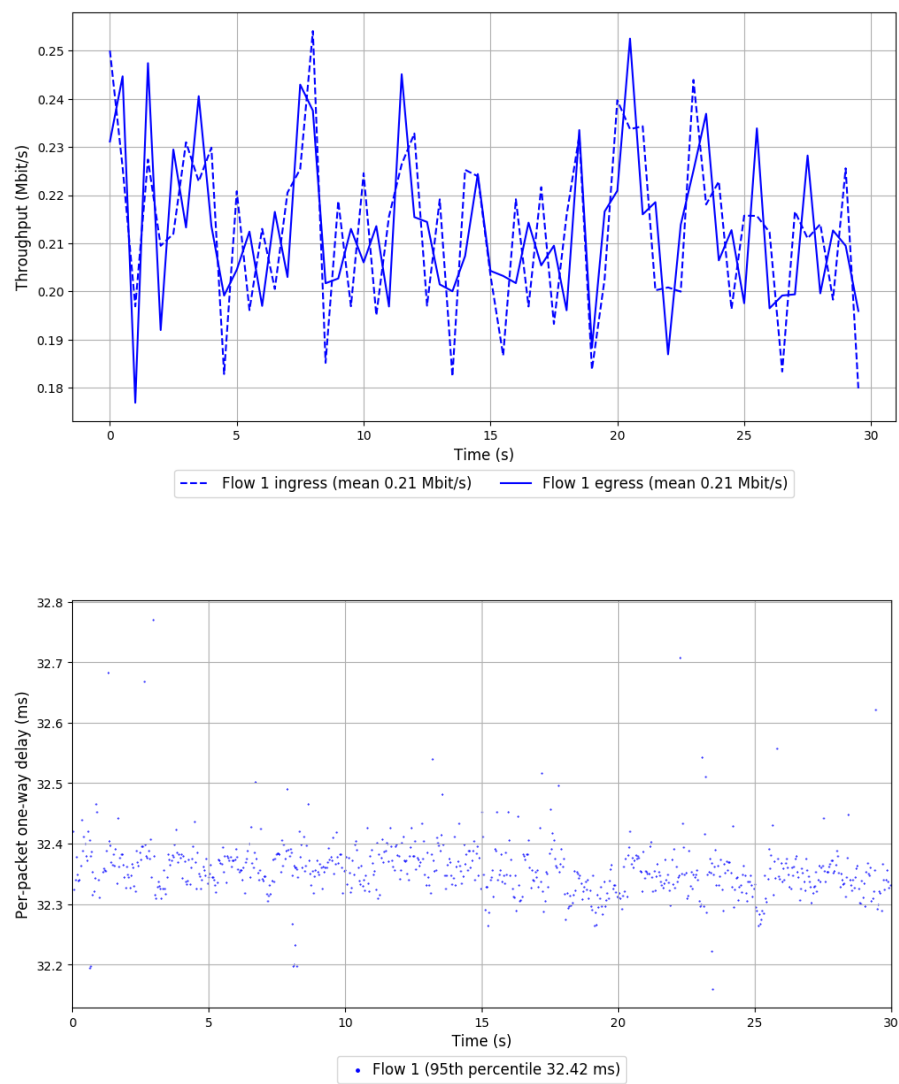


Run 8: Statistics of SCReAM

Start at: 2017-12-11 12:57:13
End at: 2017-12-11 12:57:43
Local clock offset: -2.656 ms
Remote clock offset: -15.321 ms

Below is generated by plot.py at 2017-12-11 16:37:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 32.423 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 32.423 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

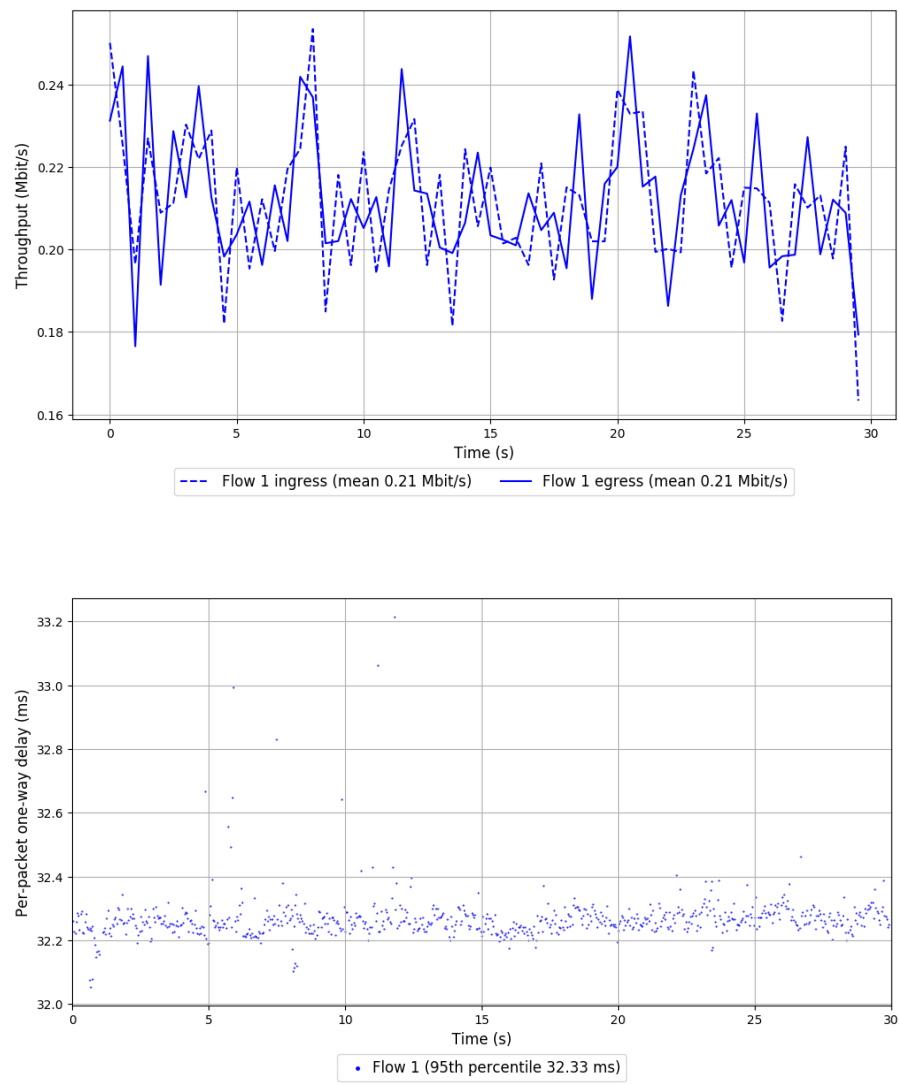


Run 9: Statistics of SCReAM

Start at: 2017-12-11 13:14:17
End at: 2017-12-11 13:14:47
Local clock offset: -0.769 ms
Remote clock offset: -12.648 ms

Below is generated by plot.py at 2017-12-11 16:37:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 32.332 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 32.332 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

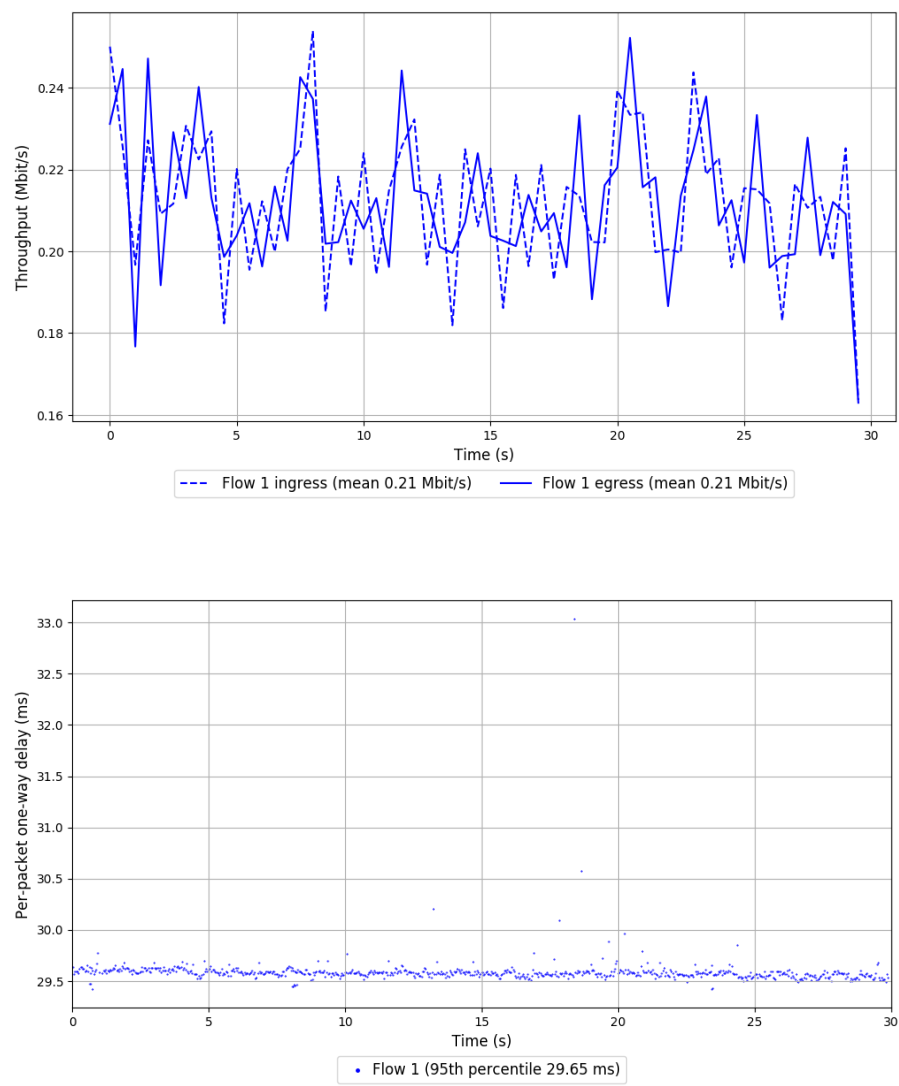


Run 10: Statistics of SReAM

Start at: 2017-12-11 13:31:16
End at: 2017-12-11 13:31:46
Local clock offset: -3.347 ms
Remote clock offset: -12.734 ms

Below is generated by plot.py at 2017-12-11 16:37:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 29.649 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 29.649 ms
Loss rate: 0.13%

Run 10: Report of SCReAM — Data Link

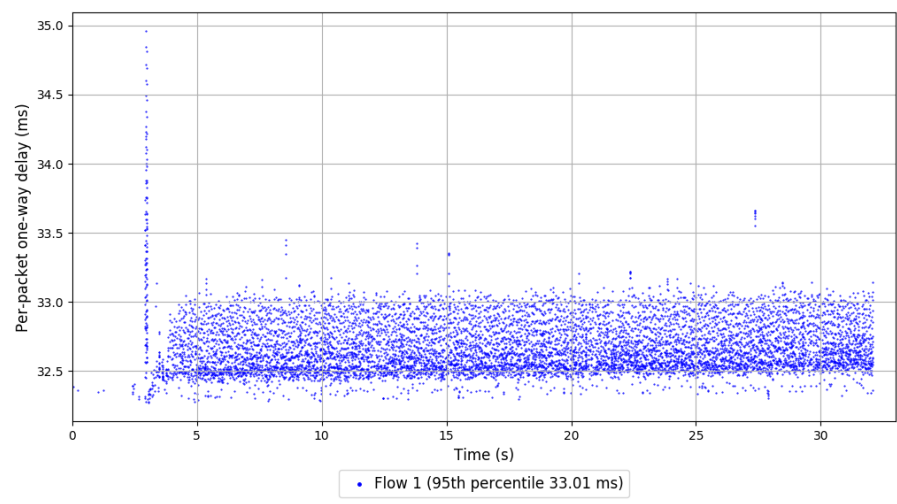
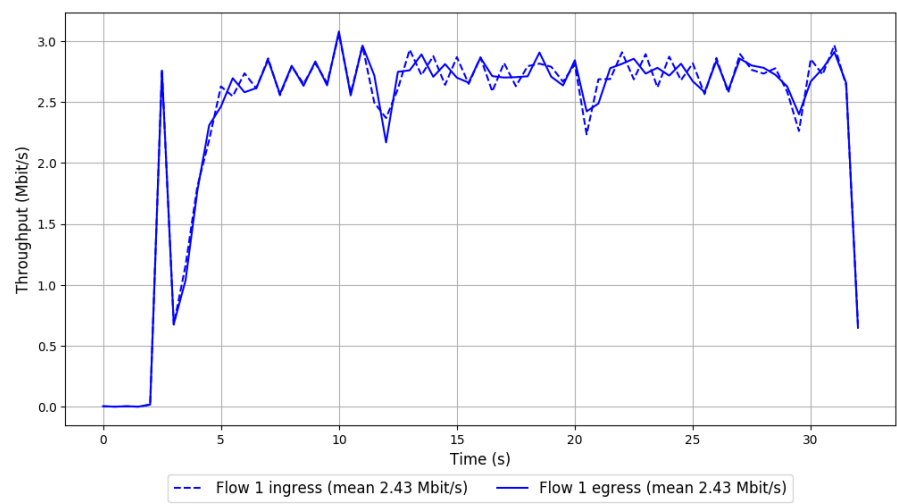


```
Run 1: Statistics of WebRTC media

Start at: 2017-12-11 11:03:00
End at: 2017-12-11 11:03:30
Local clock offset: -1.902 ms
Remote clock offset: -11.252 ms

# Below is generated by plot.py at 2017-12-11 16:37:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 33.007 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 33.007 ms
Loss rate: 0.15%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

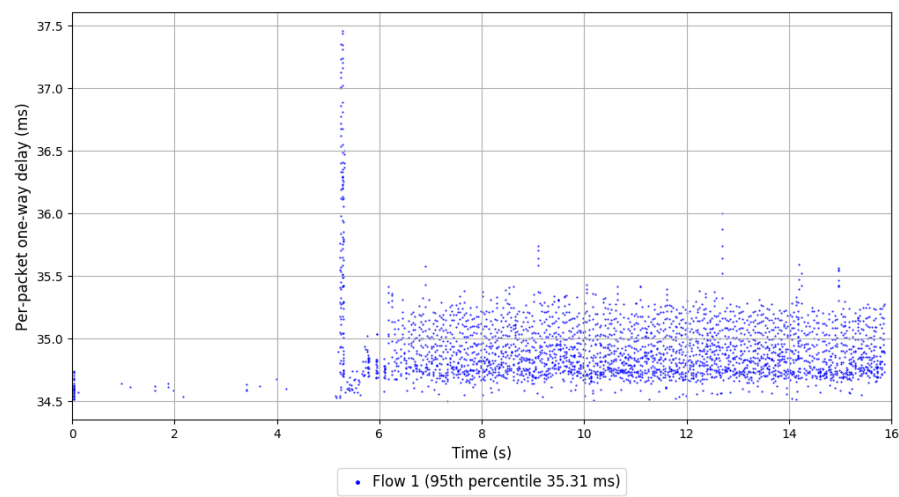
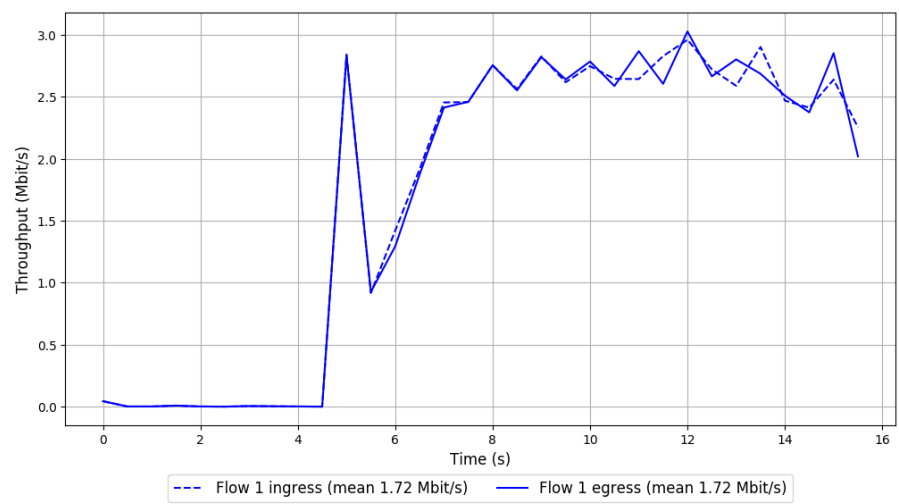
Start at: 2017-12-11 11:19:54

End at: 2017-12-11 11:20:24

Local clock offset: 0.368 ms

Remote clock offset: -10.659 ms

Run 2: Report of WebRTC media — Data Link

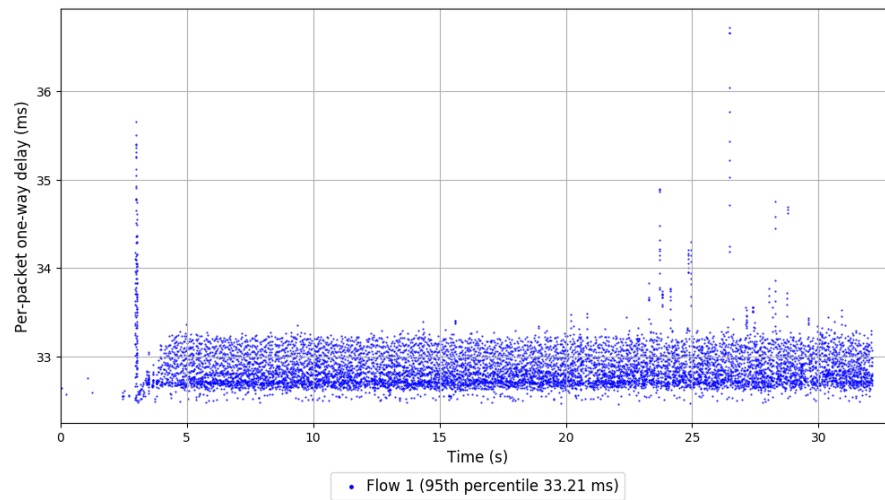
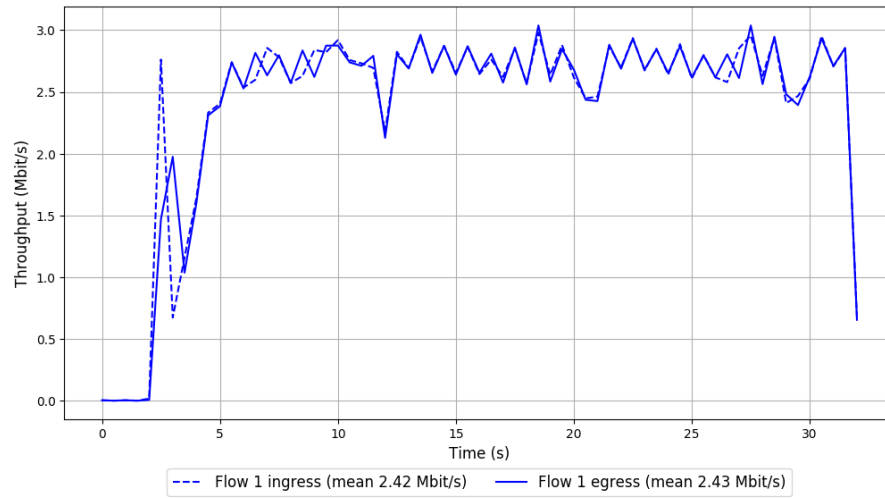


Run 3: Statistics of WebRTC media

Start at: 2017-12-11 11:37:06
End at: 2017-12-11 11:37:36
Local clock offset: 0.313 ms
Remote clock offset: -9.132 ms

Below is generated by plot.py at 2017-12-11 16:37:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 33.213 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 33.213 ms
Loss rate: 0.15%

Run 3: Report of WebRTC media — Data Link

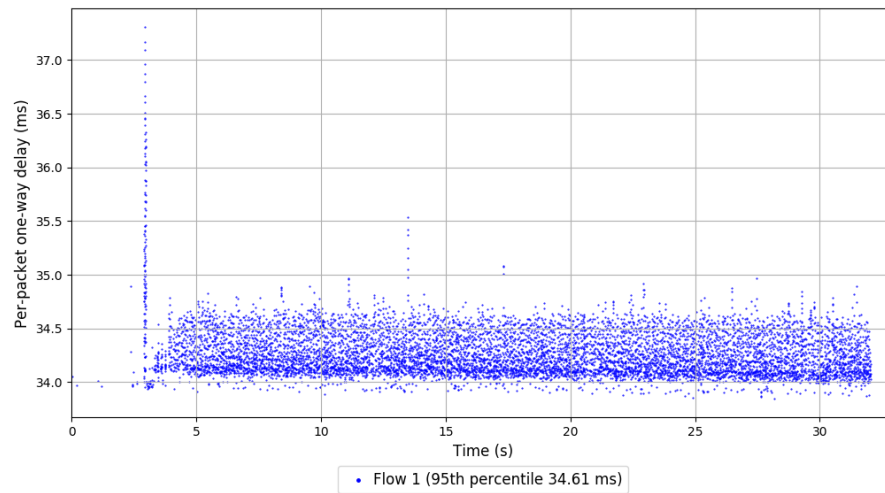
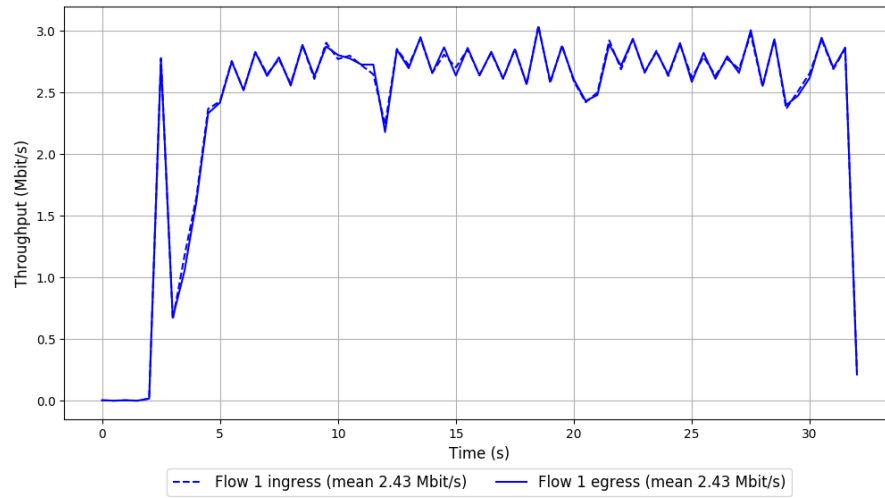


Run 4: Statistics of WebRTC media

Start at: 2017-12-11 11:53:42
End at: 2017-12-11 11:54:12
Local clock offset: 1.054 ms
Remote clock offset: -11.498 ms

Below is generated by plot.py at 2017-12-11 16:37:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 34.608 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 34.608 ms
Loss rate: 0.14%

Run 4: Report of WebRTC media — Data Link

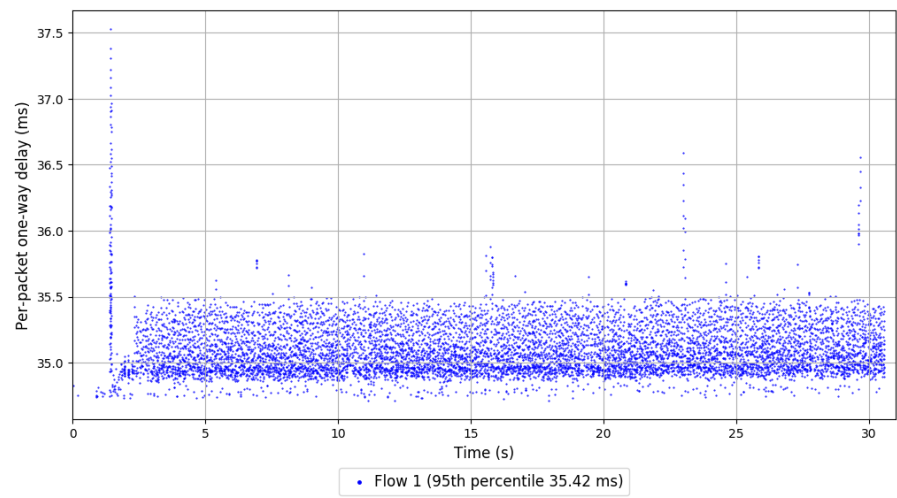
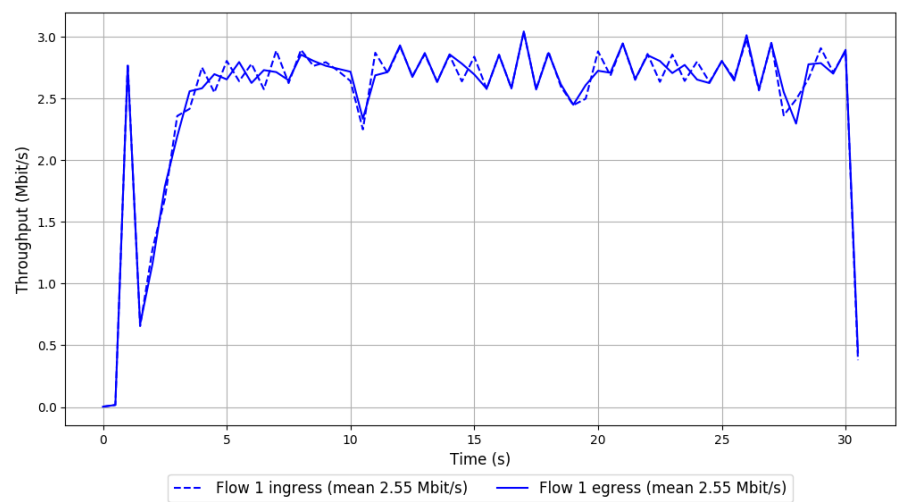


Run 5: Statistics of WebRTC media

Start at: 2017-12-11 12:10:48
End at: 2017-12-11 12:11:18
Local clock offset: 1.462 ms
Remote clock offset: -12.051 ms

Below is generated by plot.py at 2017-12-11 16:37:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 35.422 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 35.422 ms
Loss rate: 0.10%

Run 5: Report of WebRTC media — Data Link

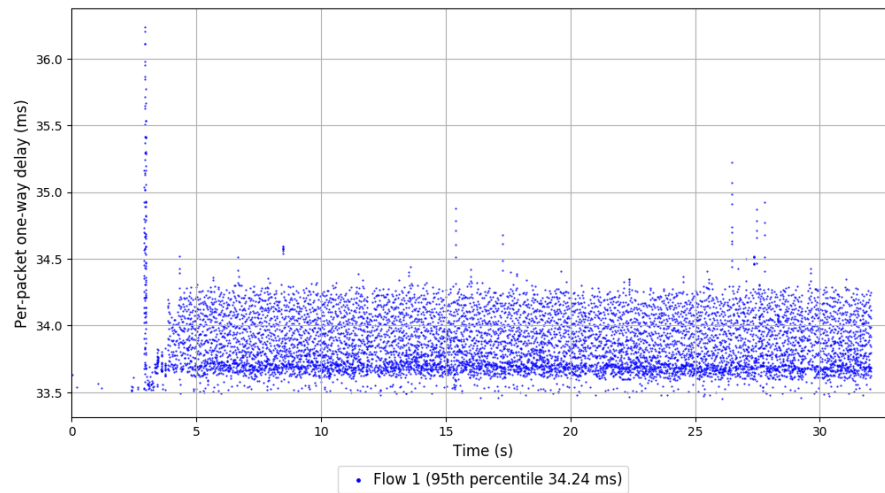
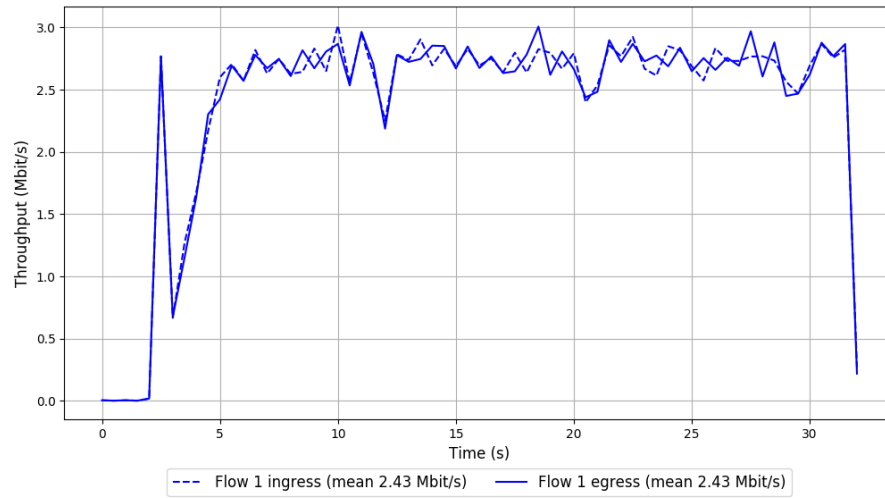


Run 6: Statistics of WebRTC media

Start at: 2017-12-11 12:27:30
End at: 2017-12-11 12:28:00
Local clock offset: 0.775 ms
Remote clock offset: -11.389 ms

Below is generated by plot.py at 2017-12-11 16:37:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 34.239 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 34.239 ms
Loss rate: 0.15%

Run 6: Report of WebRTC media — Data Link

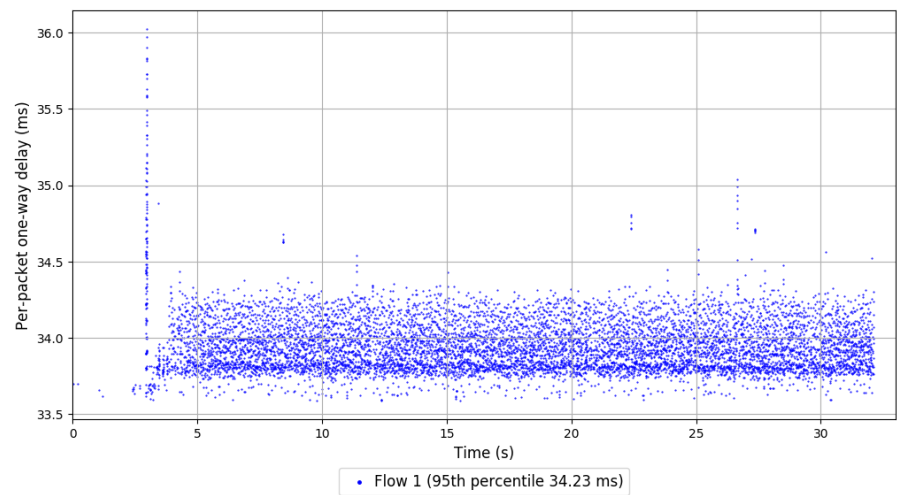
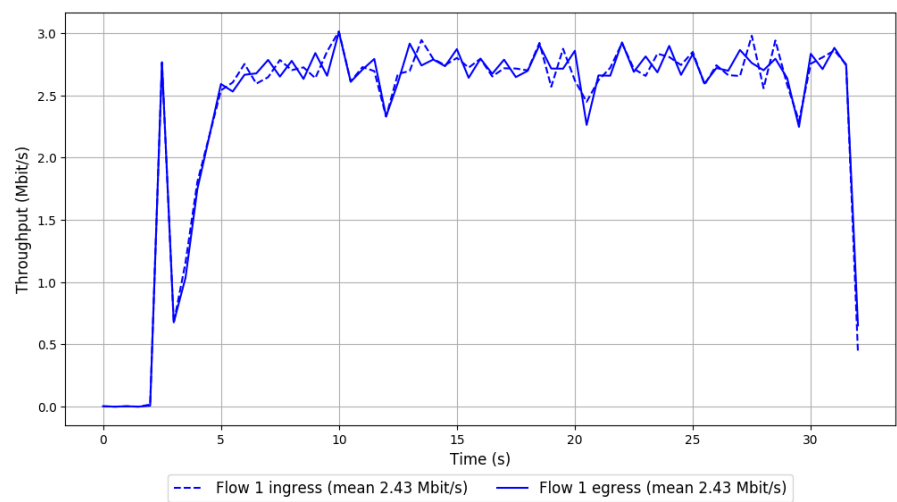


Run 7: Statistics of WebRTC media

Start at: 2017-12-11 12:44:21
End at: 2017-12-11 12:44:51
Local clock offset: -0.2 ms
Remote clock offset: -13.58 ms

Below is generated by plot.py at 2017-12-11 16:37:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 34.233 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 34.233 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

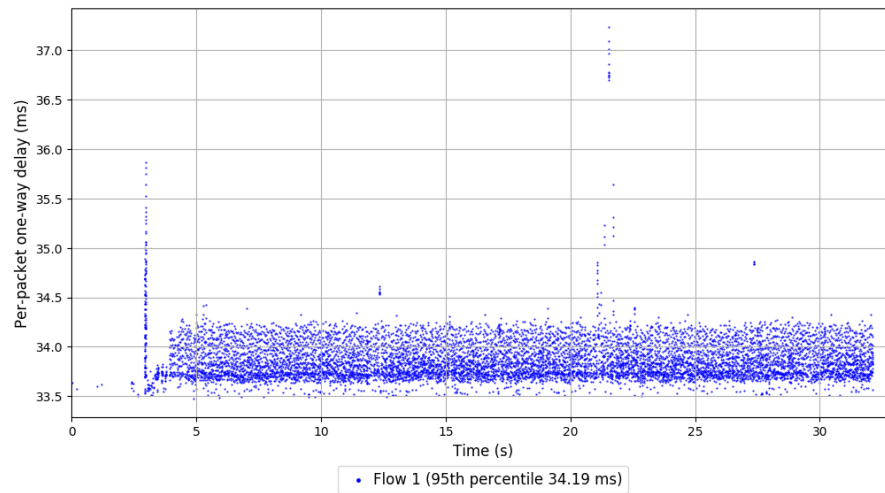
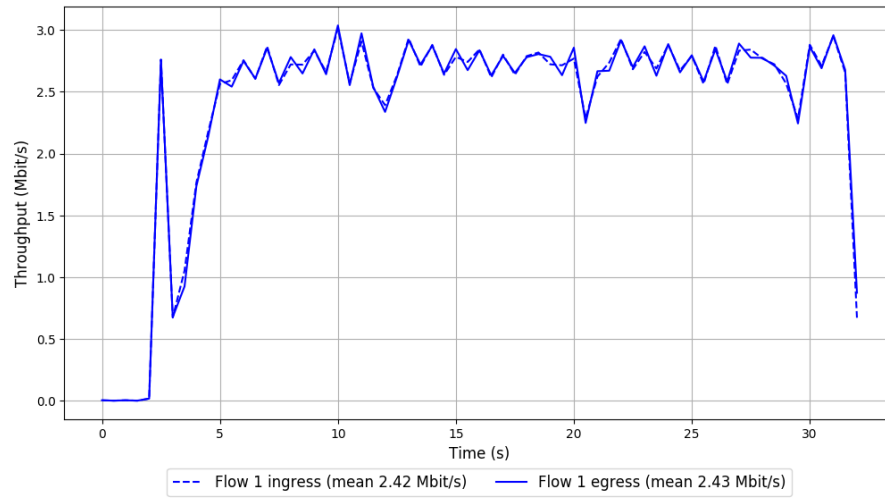


Run 8: Statistics of WebRTC media

Start at: 2017-12-11 13:00:48
End at: 2017-12-11 13:01:18
Local clock offset: -1.598 ms
Remote clock offset: -15.727 ms

Below is generated by plot.py at 2017-12-11 16:37:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 34.191 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 34.191 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

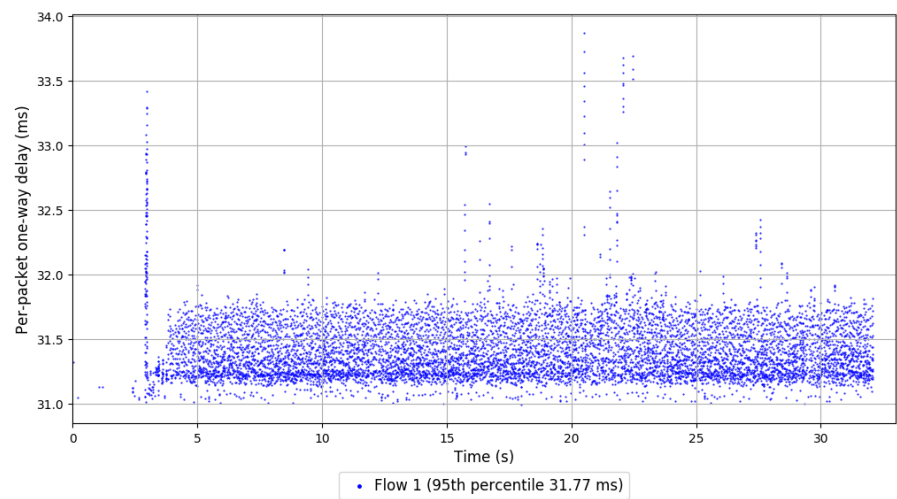
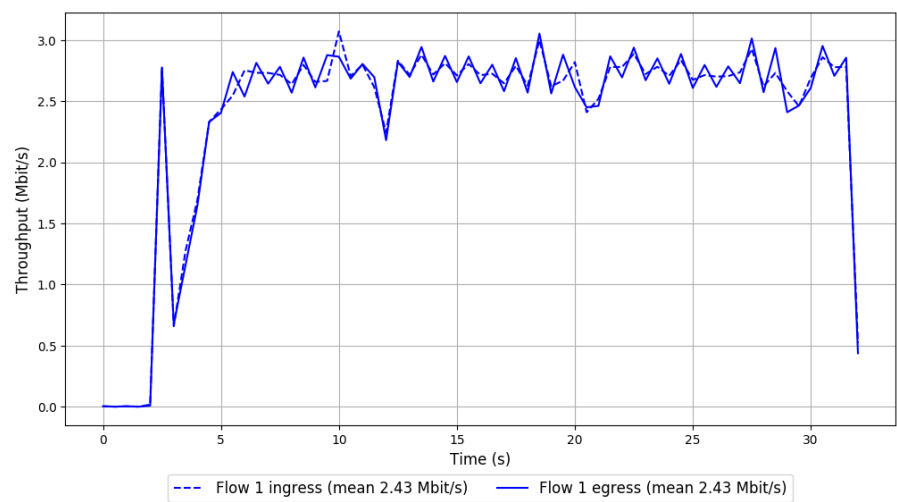


Run 9: Statistics of WebRTC media

Start at: 2017-12-11 13:17:45
End at: 2017-12-11 13:18:15
Local clock offset: -1.609 ms
Remote clock offset: -12.222 ms

Below is generated by plot.py at 2017-12-11 16:37:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 31.773 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 31.773 ms
Loss rate: 0.15%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-12-11 13:34:46

End at: 2017-12-11 13:35:16

Local clock offset: -0.497 ms

Remote clock offset: -15.045 ms

Below is generated by plot.py at 2017-12-11 16:37:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.44 Mbit/s

95th percentile per-packet one-way delay: 34.799 ms

Loss rate: 0.10%

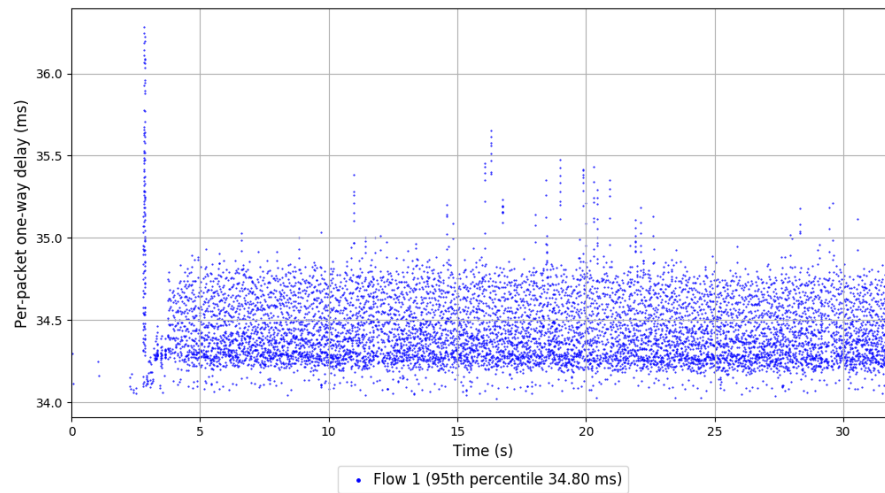
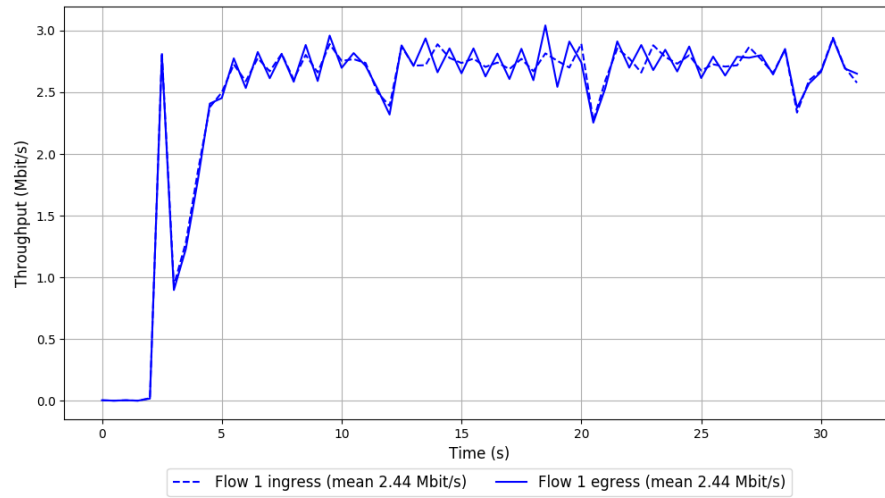
-- Flow 1:

Average throughput: 2.44 Mbit/s

95th percentile per-packet one-way delay: 34.799 ms

Loss rate: 0.10%

Run 10: Report of WebRTC media — Data Link

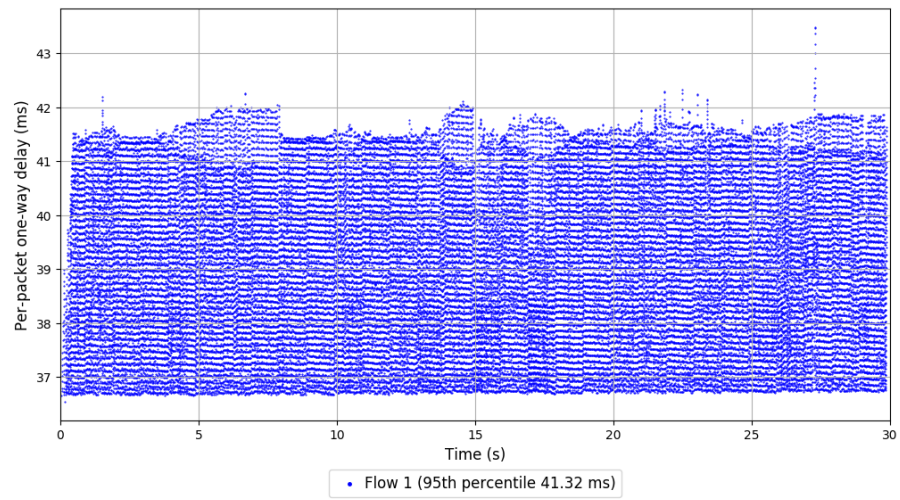
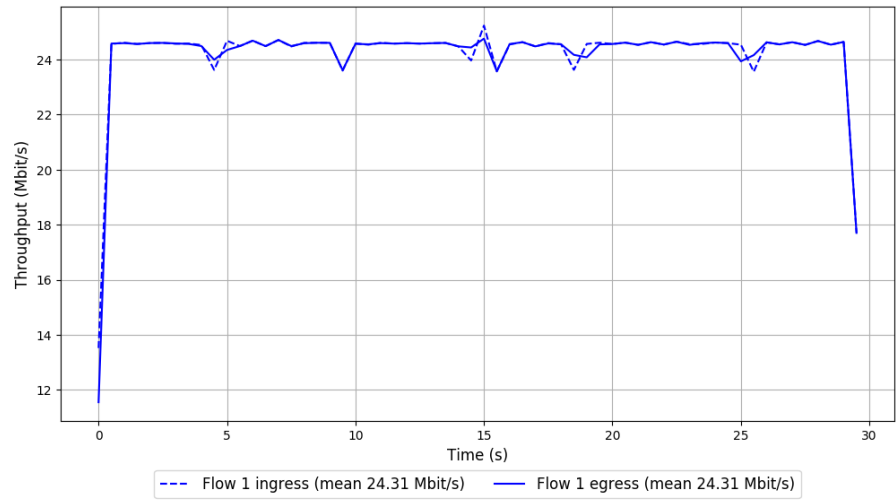


Run 1: Statistics of Sprout

Start at: 2017-12-11 10:52:13
End at: 2017-12-11 10:52:43
Local clock offset: 0.92 ms
Remote clock offset: -13.564 ms

Below is generated by plot.py at 2017-12-11 16:37:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.31 Mbit/s
95th percentile per-packet one-way delay: 41.318 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 24.31 Mbit/s
95th percentile per-packet one-way delay: 41.318 ms
Loss rate: 0.14%

Run 1: Report of Sprout — Data Link

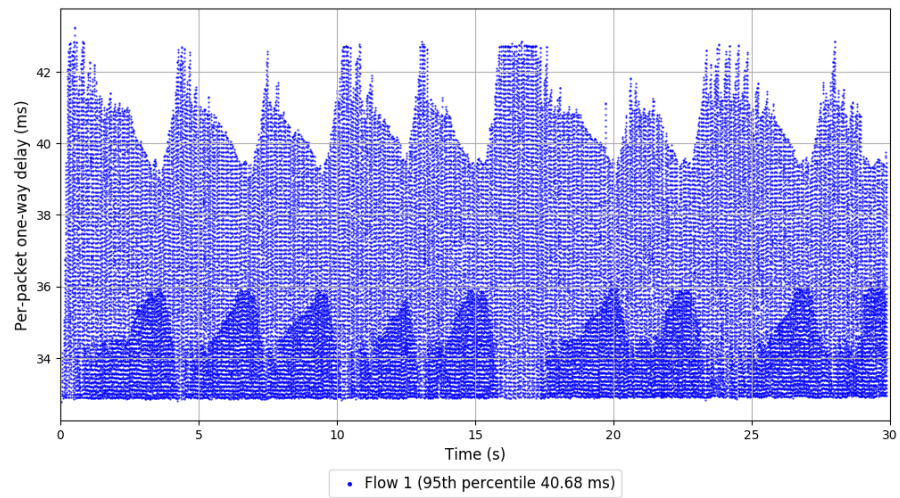
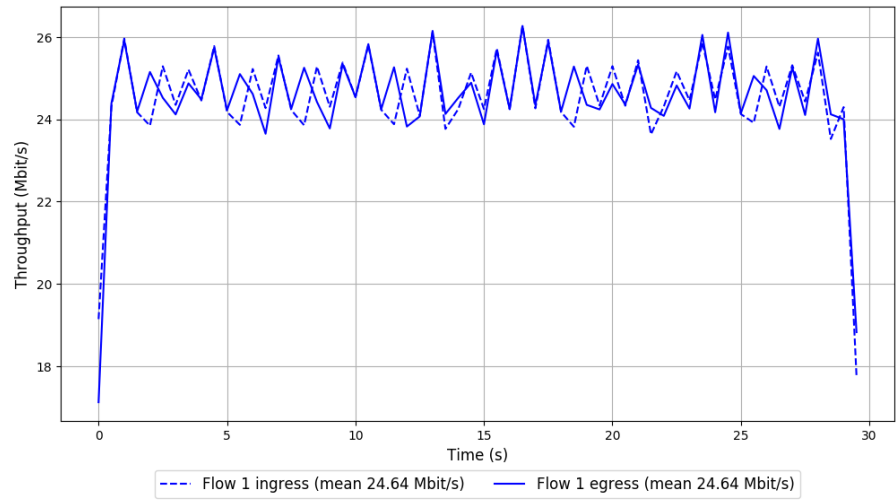


Run 2: Statistics of Sprout

Start at: 2017-12-11 11:08:48
End at: 2017-12-11 11:09:18
Local clock offset: -2.721 ms
Remote clock offset: -11.639 ms

Below is generated by plot.py at 2017-12-11 16:37:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.64 Mbit/s
95th percentile per-packet one-way delay: 40.682 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 24.64 Mbit/s
95th percentile per-packet one-way delay: 40.682 ms
Loss rate: 0.04%

Run 2: Report of Sprout — Data Link

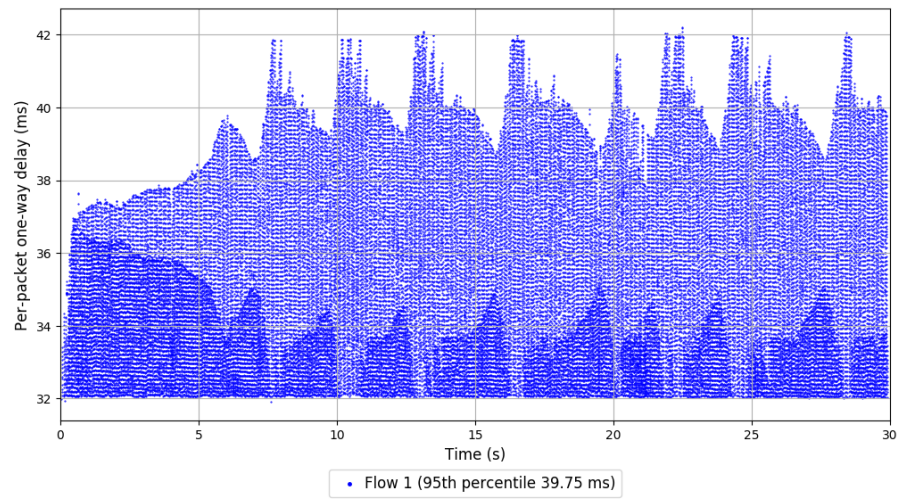
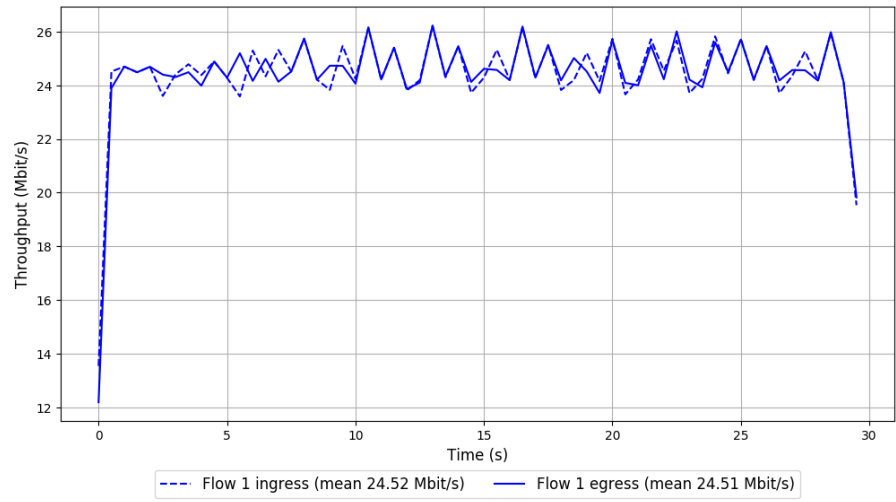


Run 3: Statistics of Sprout

Start at: 2017-12-11 11:26:02
End at: 2017-12-11 11:26:32
Local clock offset: -4.445 ms
Remote clock offset: -13.328 ms

Below is generated by plot.py at 2017-12-11 16:37:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.51 Mbit/s
95th percentile per-packet one-way delay: 39.754 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 24.51 Mbit/s
95th percentile per-packet one-way delay: 39.754 ms
Loss rate: 0.11%

Run 3: Report of Sprout — Data Link

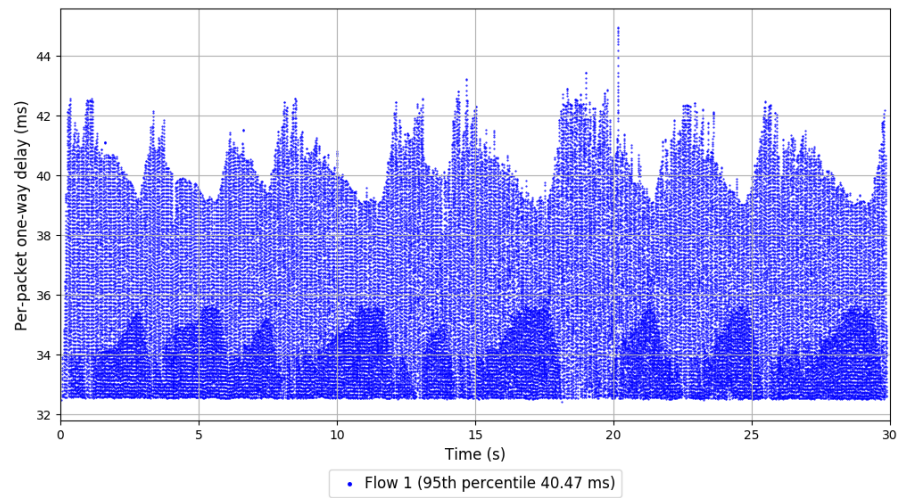
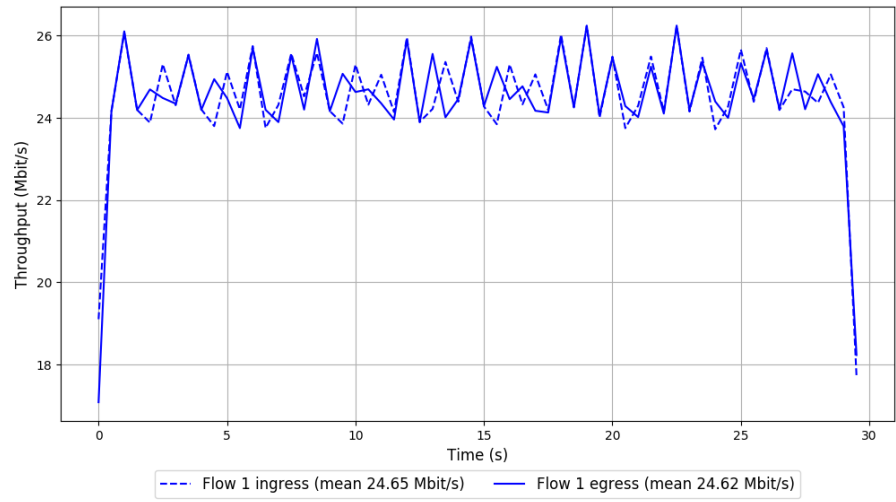


Run 4: Statistics of Sprout

Start at: 2017-12-11 11:42:49
End at: 2017-12-11 11:43:19
Local clock offset: -1.154 ms
Remote clock offset: -10.884 ms

Below is generated by plot.py at 2017-12-11 16:37:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.62 Mbit/s
95th percentile per-packet one-way delay: 40.470 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 24.62 Mbit/s
95th percentile per-packet one-way delay: 40.470 ms
Loss rate: 0.10%

Run 4: Report of Sprout — Data Link

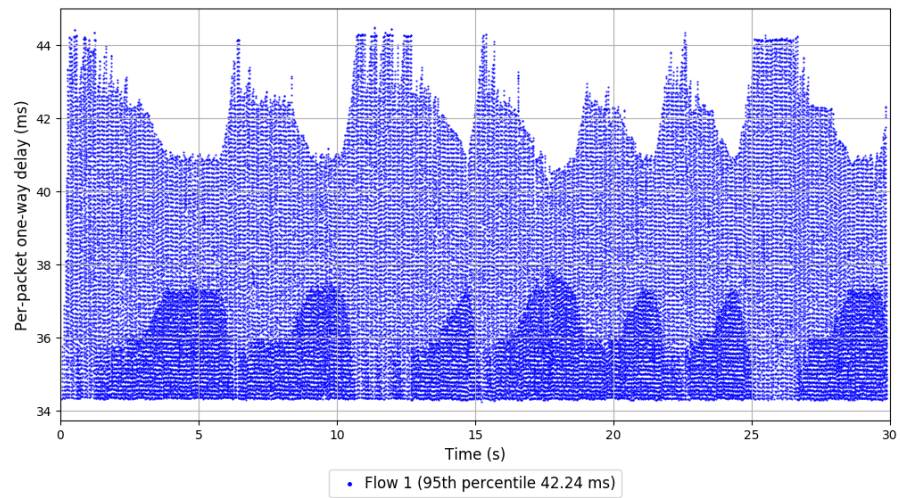
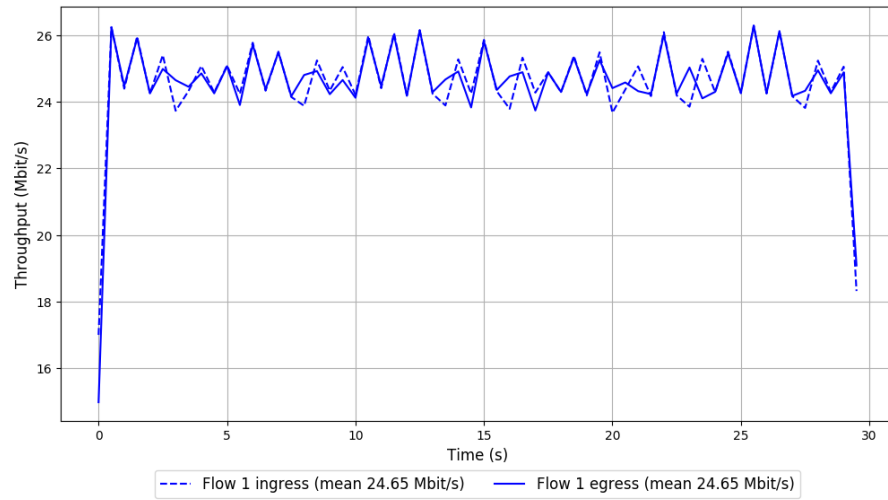


Run 5: Statistics of Sprout

Start at: 2017-12-11 11:59:46
End at: 2017-12-11 12:00:16
Local clock offset: 0.998 ms
Remote clock offset: -12.29 ms

Below is generated by plot.py at 2017-12-11 16:37:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.65 Mbit/s
95th percentile per-packet one-way delay: 42.241 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 24.65 Mbit/s
95th percentile per-packet one-way delay: 42.241 ms
Loss rate: 0.08%

Run 5: Report of Sprout — Data Link

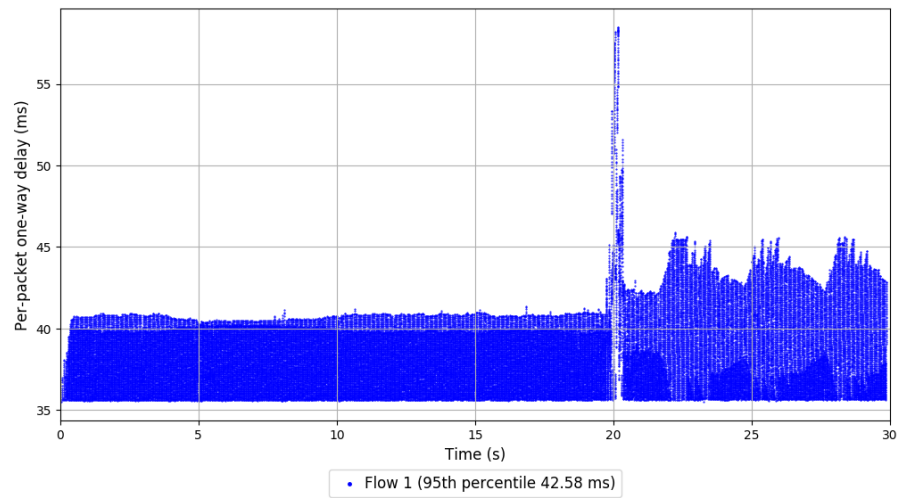
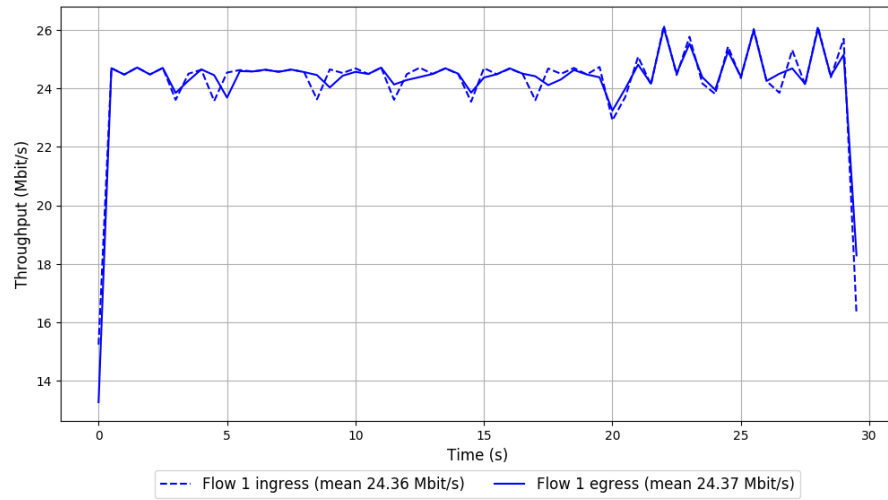


Run 6: Statistics of Sprout

Start at: 2017-12-11 12:16:45
End at: 2017-12-11 12:17:15
Local clock offset: 1.552 ms
Remote clock offset: -12.255 ms

Below is generated by plot.py at 2017-12-11 16:37:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.37 Mbit/s
95th percentile per-packet one-way delay: 42.575 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 24.37 Mbit/s
95th percentile per-packet one-way delay: 42.575 ms
Loss rate: 0.03%

Run 6: Report of Sprout — Data Link

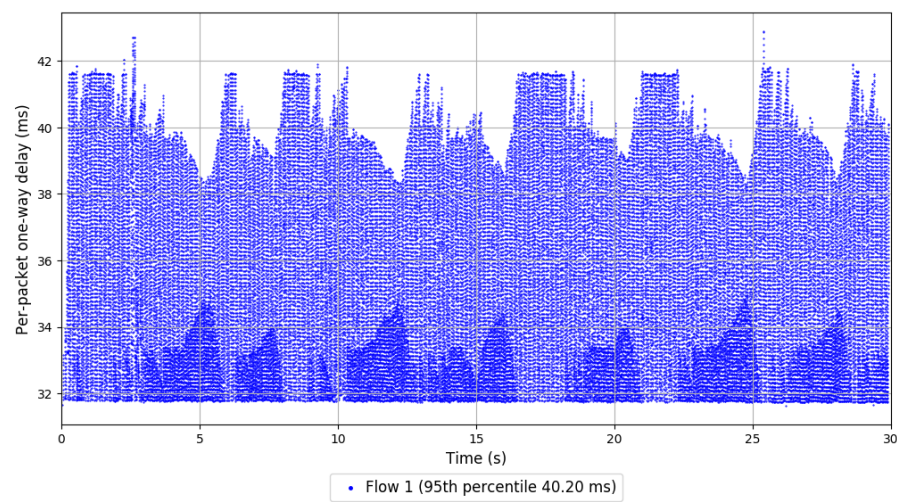
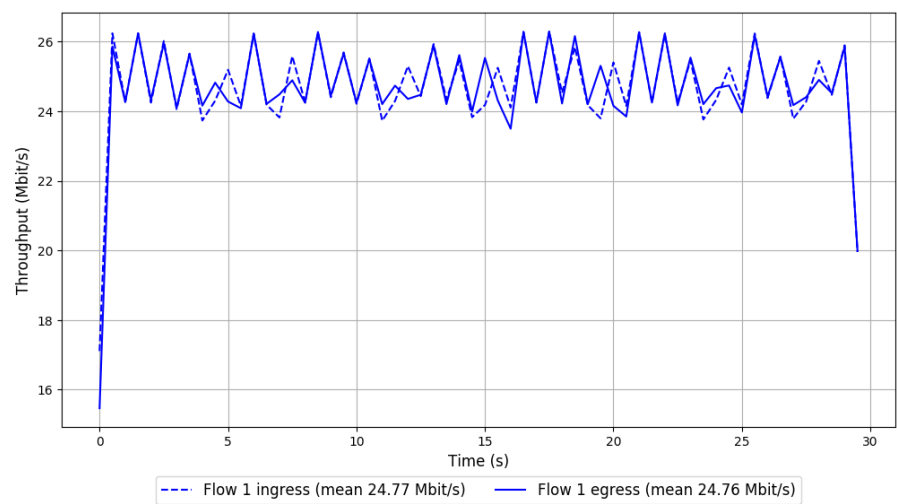


Run 7: Statistics of Sprout

Start at: 2017-12-11 12:33:27
End at: 2017-12-11 12:33:57
Local clock offset: -1.301 ms
Remote clock offset: -11.786 ms

Below is generated by plot.py at 2017-12-11 16:37:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.76 Mbit/s
95th percentile per-packet one-way delay: 40.197 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 24.76 Mbit/s
95th percentile per-packet one-way delay: 40.197 ms
Loss rate: 0.13%

Run 7: Report of Sprout — Data Link

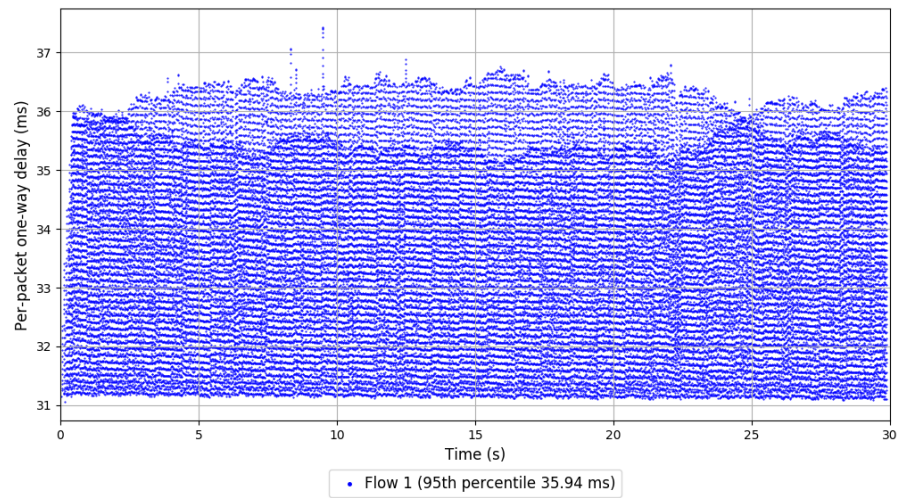
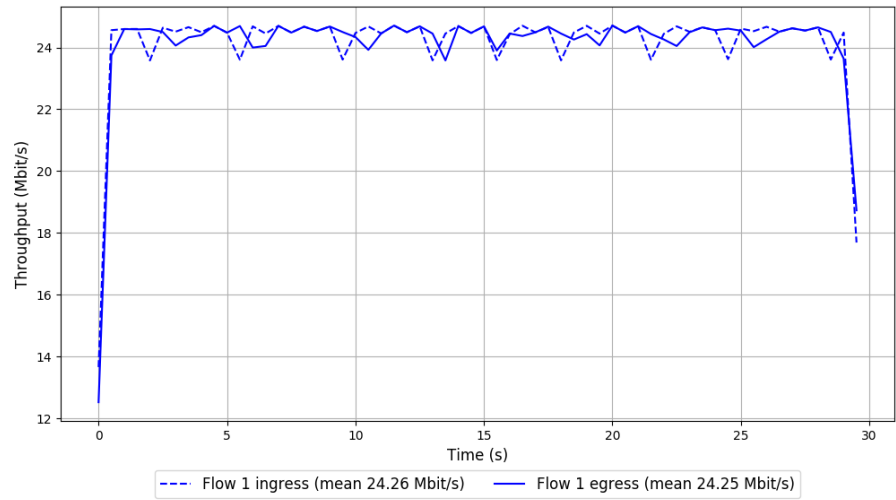


Run 8: Statistics of Sprout

Start at: 2017-12-11 12:50:06
End at: 2017-12-11 12:50:36
Local clock offset: -1.088 ms
Remote clock offset: -12.104 ms

Below is generated by plot.py at 2017-12-11 16:37:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.25 Mbit/s
95th percentile per-packet one-way delay: 35.942 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 24.25 Mbit/s
95th percentile per-packet one-way delay: 35.942 ms
Loss rate: 0.06%

Run 8: Report of Sprout — Data Link

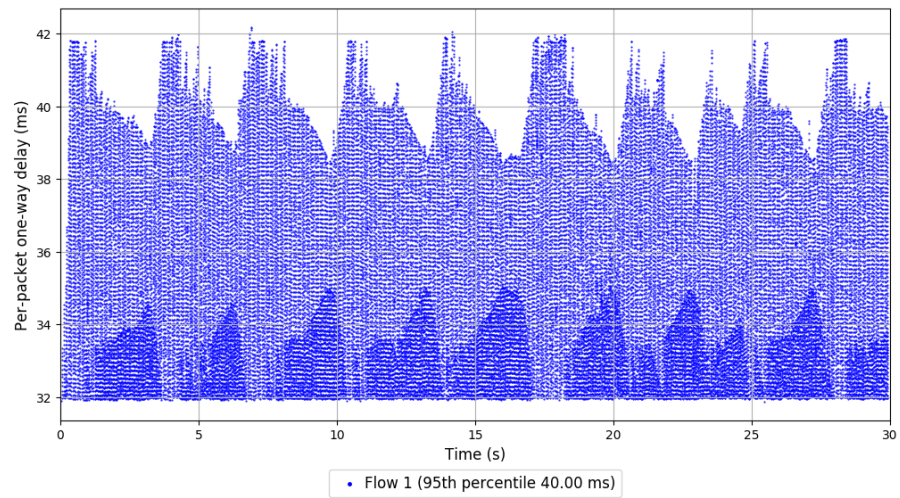
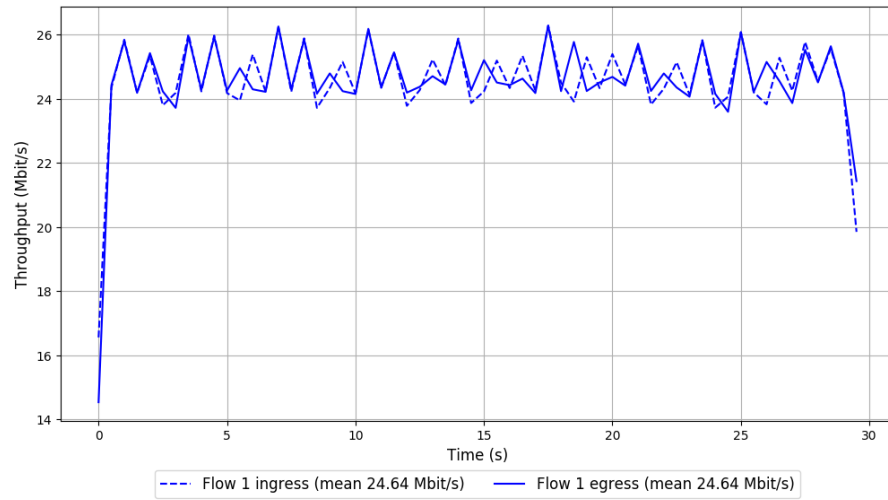


Run 9: Statistics of Sprout

Start at: 2017-12-11 13:06:40
End at: 2017-12-11 13:07:10
Local clock offset: -1.897 ms
Remote clock offset: -13.996 ms

Below is generated by plot.py at 2017-12-11 16:37:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.64 Mbit/s
95th percentile per-packet one-way delay: 39.996 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 24.64 Mbit/s
95th percentile per-packet one-way delay: 39.996 ms
Loss rate: 0.03%

Run 9: Report of Sprout — Data Link

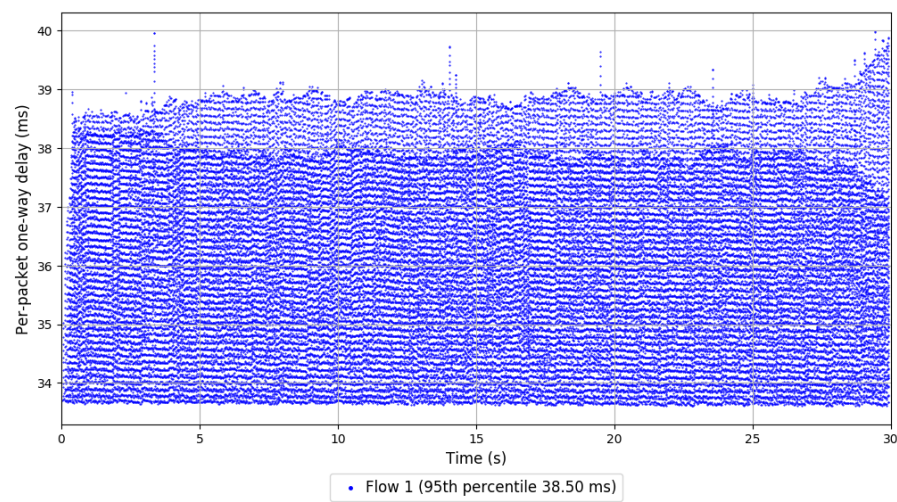
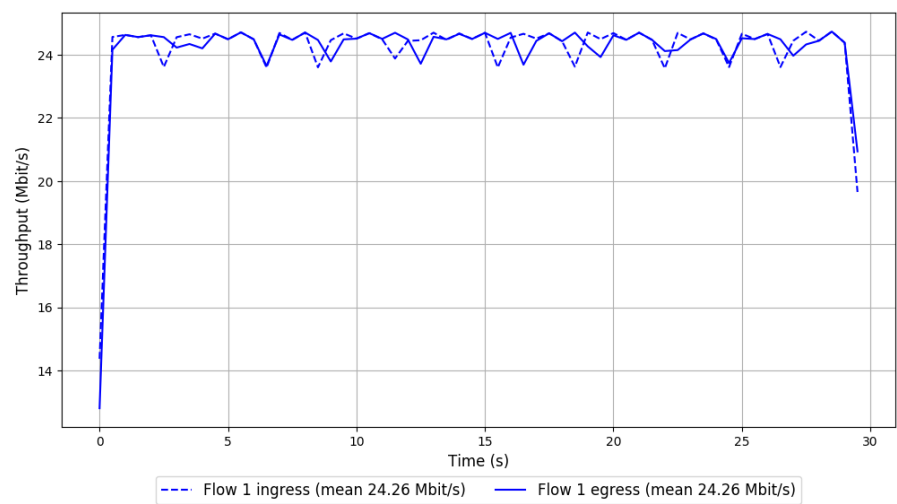


Run 10: Statistics of Sprout

Start at: 2017-12-11 13:23:34
End at: 2017-12-11 13:24:04
Local clock offset: 0.357 ms
Remote clock offset: -12.788 ms

Below is generated by plot.py at 2017-12-11 16:37:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.26 Mbit/s
95th percentile per-packet one-way delay: 38.499 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 24.26 Mbit/s
95th percentile per-packet one-way delay: 38.499 ms
Loss rate: 0.05%

Run 10: Report of Sprout — Data Link

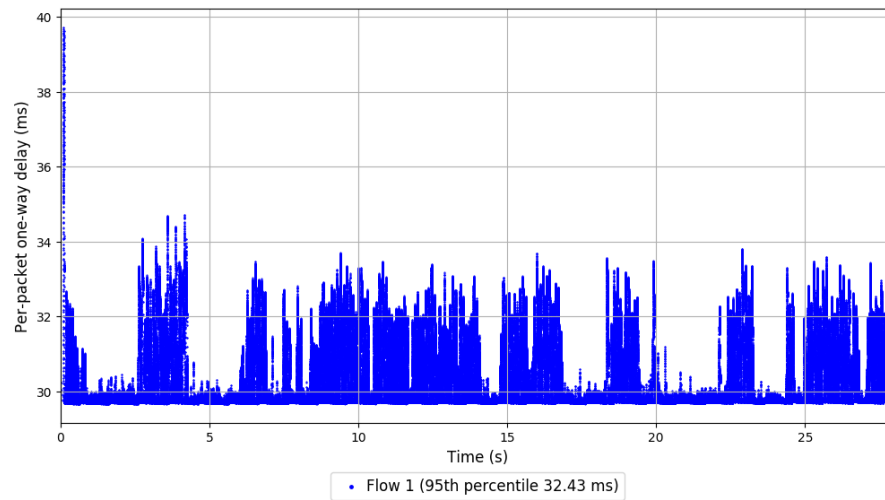
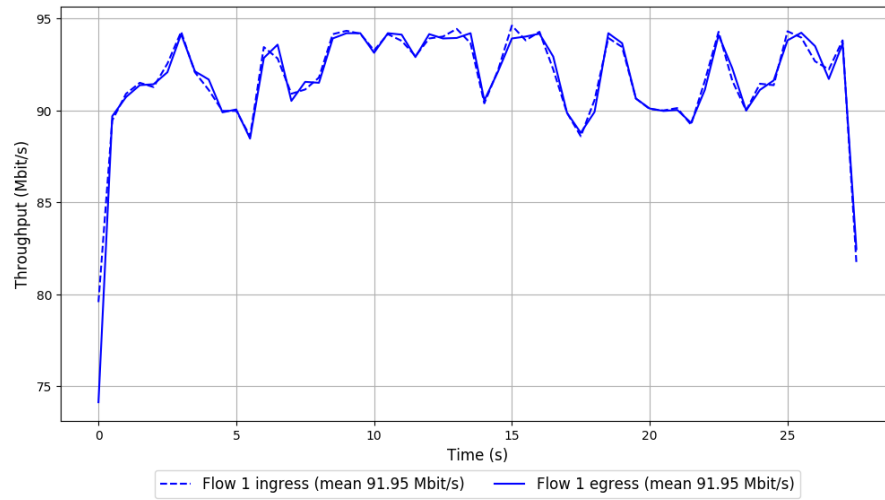


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-12-11 10:55:49
End at: 2017-12-11 10:56:19
Local clock offset: -3.036 ms
Remote clock offset: -10.142 ms

# Below is generated by plot.py at 2017-12-11 16:39:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.95 Mbit/s
95th percentile per-packet one-way delay: 32.428 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 91.95 Mbit/s
95th percentile per-packet one-way delay: 32.428 ms
Loss rate: 0.09%
```


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

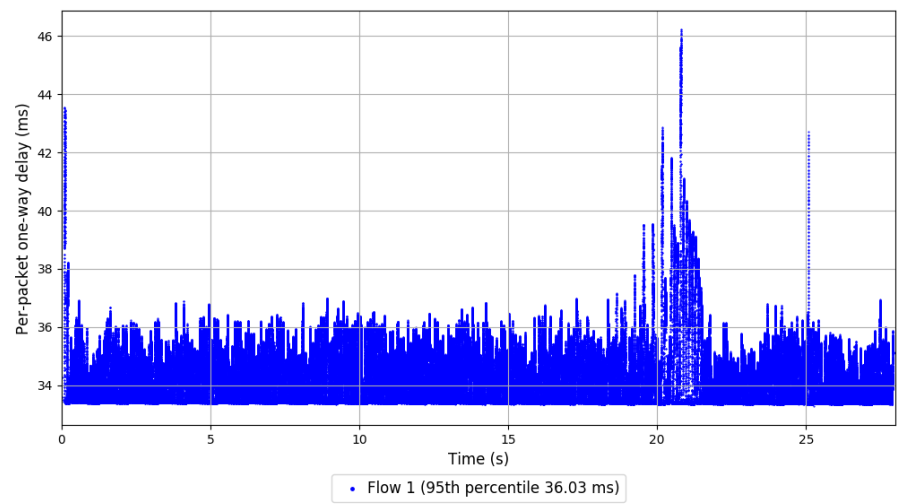
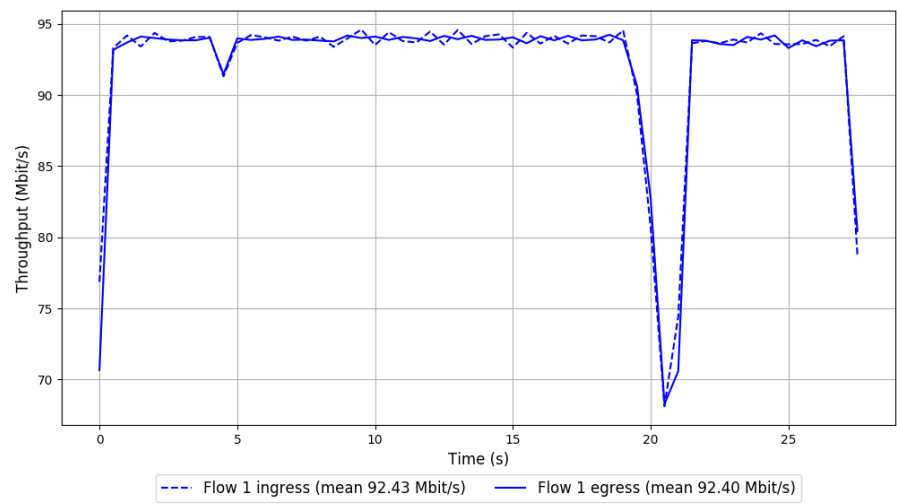


Run 2: Statistics of TaoVA-100x

Start at: 2017-12-11 11:12:27
End at: 2017-12-11 11:12:57
Local clock offset: -2.265 ms
Remote clock offset: -11.922 ms

Below is generated by plot.py at 2017-12-11 16:39:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.40 Mbit/s
95th percentile per-packet one-way delay: 36.032 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 92.40 Mbit/s
95th percentile per-packet one-way delay: 36.032 ms
Loss rate: 0.12%

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

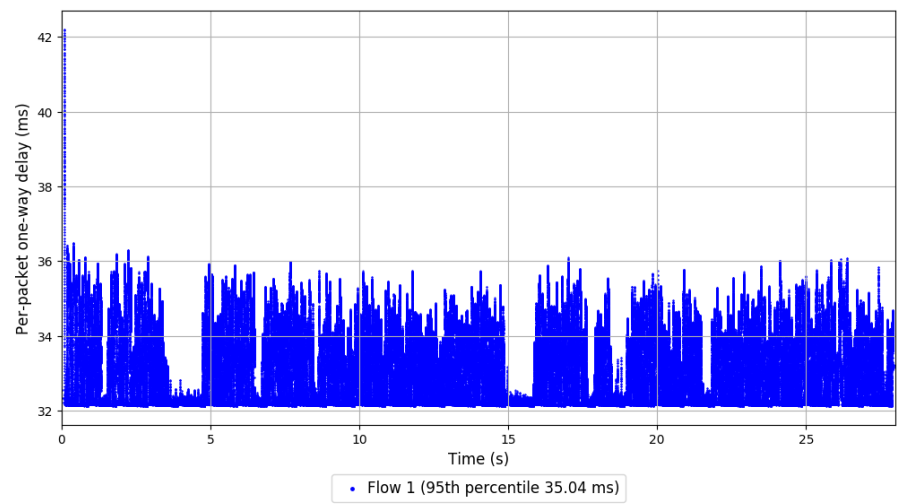
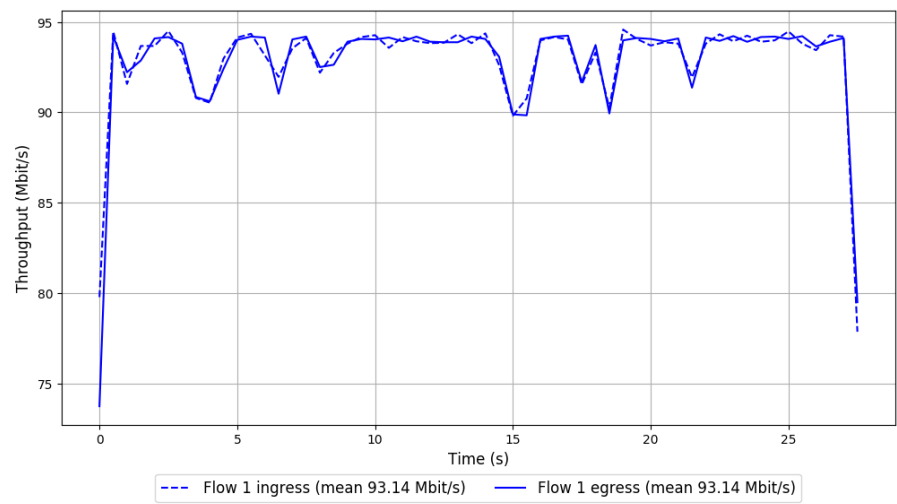


Run 3: Statistics of TaoVA-100x

Start at: 2017-12-11 11:29:37
End at: 2017-12-11 11:30:07
Local clock offset: -1.802 ms
Remote clock offset: -10.79 ms

Below is generated by plot.py at 2017-12-11 16:39:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.14 Mbit/s
95th percentile per-packet one-way delay: 35.037 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 93.14 Mbit/s
95th percentile per-packet one-way delay: 35.037 ms
Loss rate: 0.09%

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

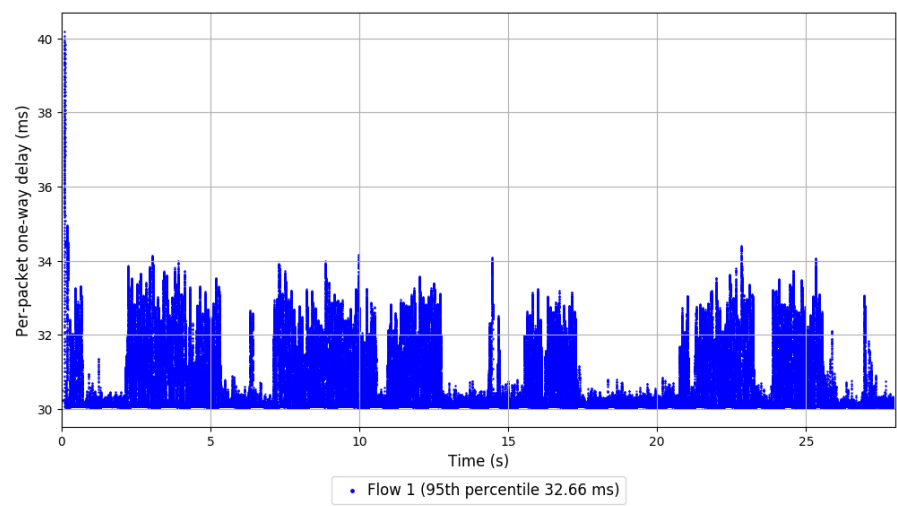
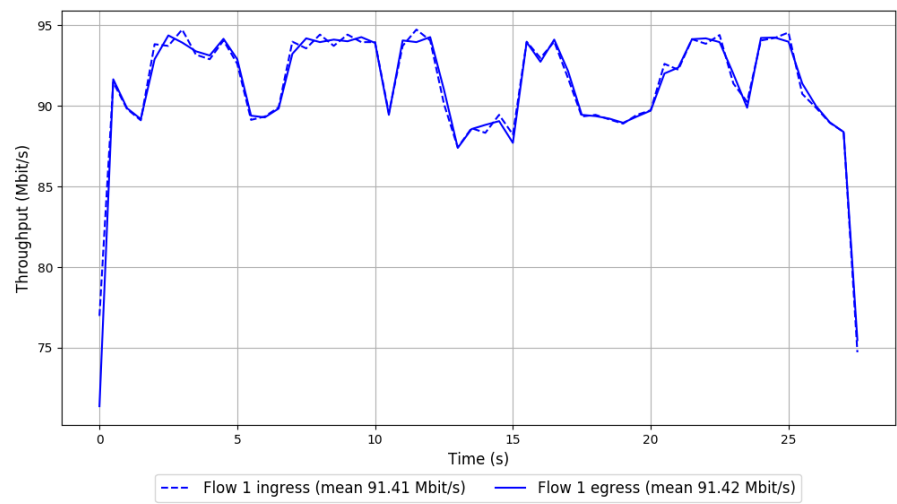


Run 4: Statistics of TaoVA-100x

Start at: 2017-12-11 11:46:28
End at: 2017-12-11 11:46:58
Local clock offset: -2.037 ms
Remote clock offset: -9.556 ms

Below is generated by plot.py at 2017-12-11 16:39:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.42 Mbit/s
95th percentile per-packet one-way delay: 32.663 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 91.42 Mbit/s
95th percentile per-packet one-way delay: 32.663 ms
Loss rate: 0.09%

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

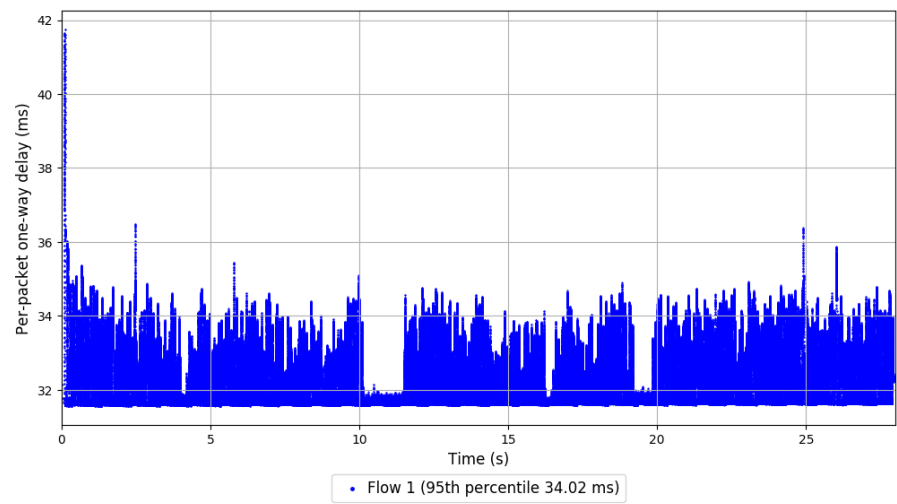
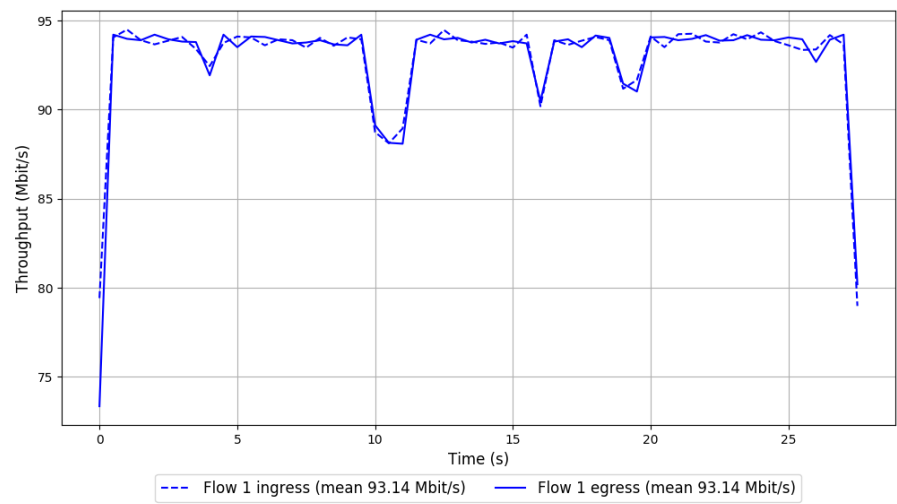


Run 5: Statistics of TaoVA-100x

Start at: 2017-12-11 12:03:21
End at: 2017-12-11 12:03:51
Local clock offset: -1.486 ms
Remote clock offset: -11.867 ms

Below is generated by plot.py at 2017-12-11 16:39:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.14 Mbit/s
95th percentile per-packet one-way delay: 34.016 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 93.14 Mbit/s
95th percentile per-packet one-way delay: 34.016 ms
Loss rate: 0.09%

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

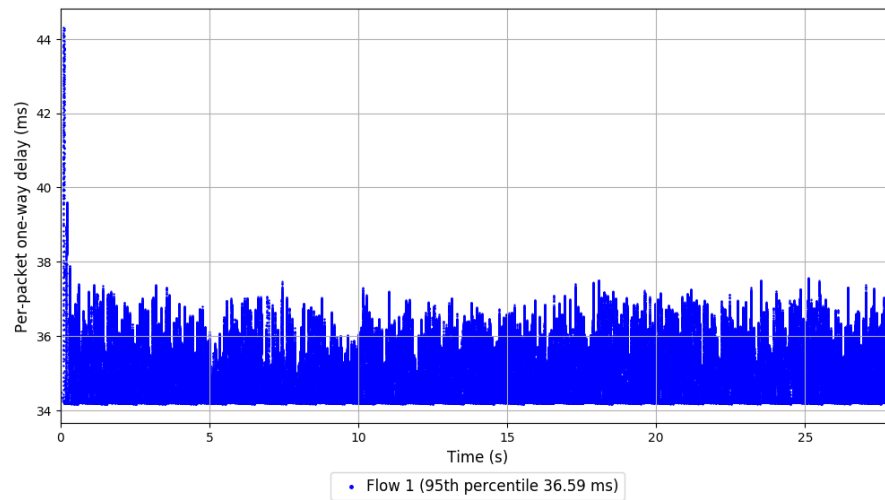
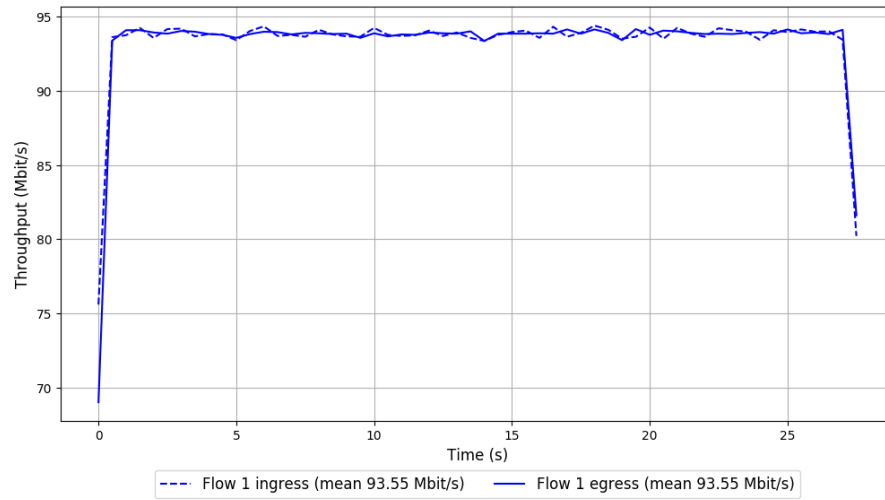


Run 6: Statistics of TaoVA-100x

Start at: 2017-12-11 12:20:17
End at: 2017-12-11 12:20:47
Local clock offset: 0.331 ms
Remote clock offset: -11.724 ms

Below is generated by plot.py at 2017-12-11 16:39:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.55 Mbit/s
95th percentile per-packet one-way delay: 36.589 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 93.55 Mbit/s
95th percentile per-packet one-way delay: 36.589 ms
Loss rate: 0.09%

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

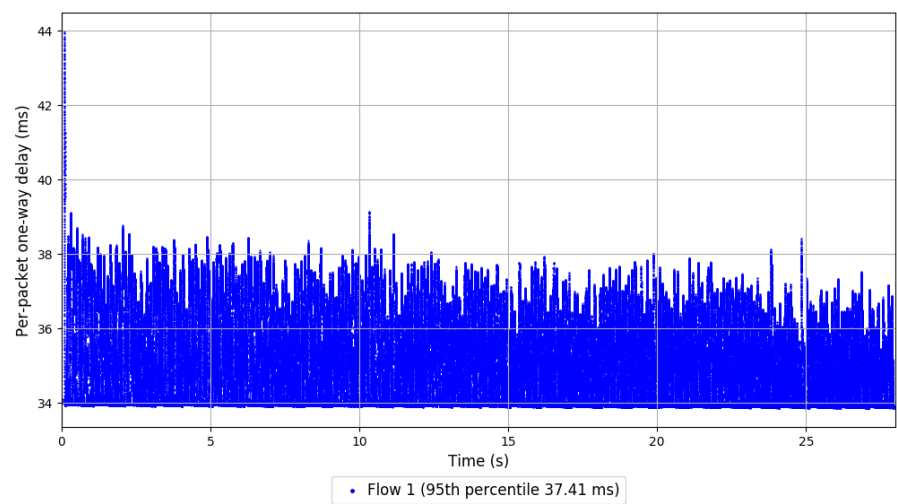
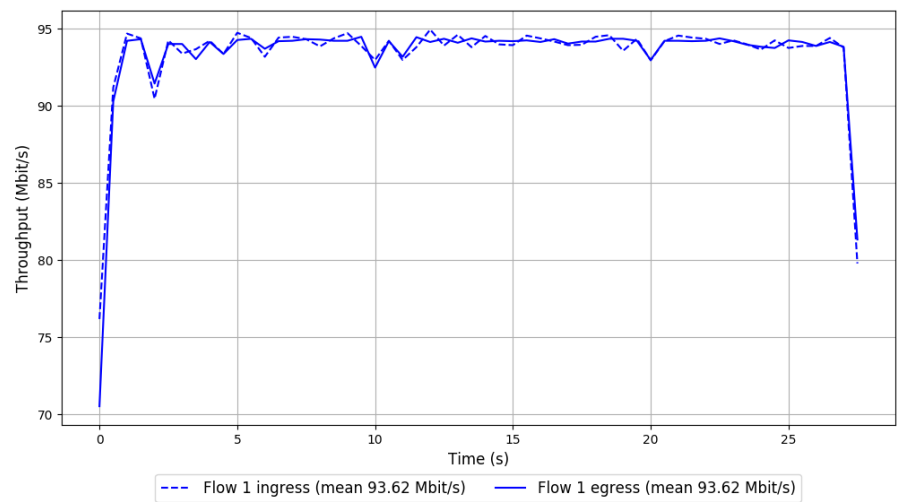


Run 7: Statistics of TaoVA-100x

Start at: 2017-12-11 12:36:59
End at: 2017-12-11 12:37:29
Local clock offset: -0.87 ms
Remote clock offset: -14.002 ms

Below is generated by plot.py at 2017-12-11 16:39:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.62 Mbit/s
95th percentile per-packet one-way delay: 37.409 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 93.62 Mbit/s
95th percentile per-packet one-way delay: 37.409 ms
Loss rate: 0.09%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-12-11 12:53:39

End at: 2017-12-11 12:54:09

Local clock offset: 0.733 ms

Remote clock offset: -15.372 ms

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

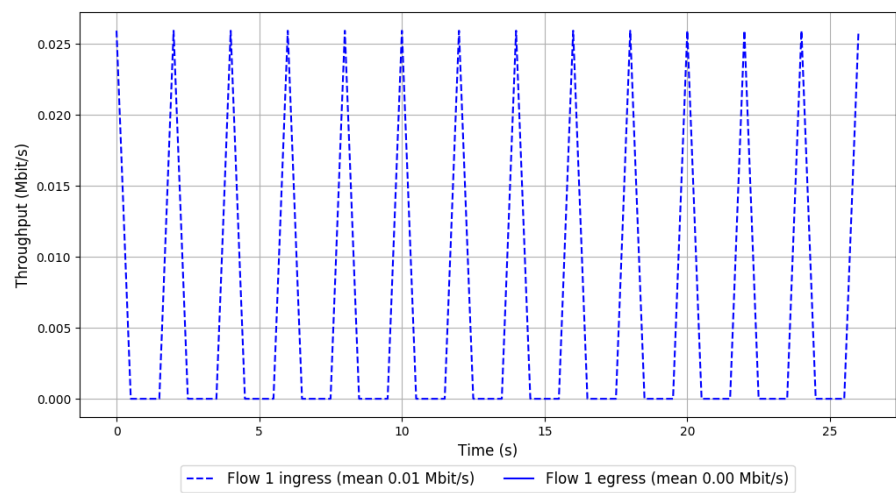


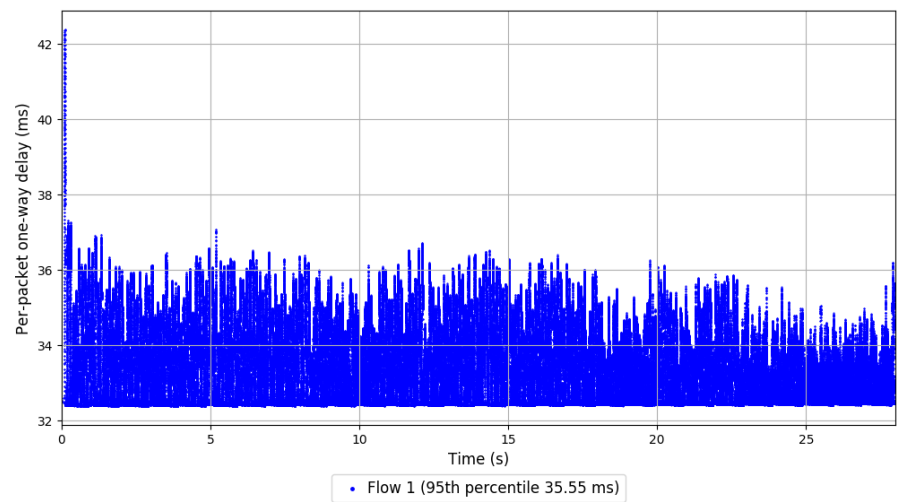
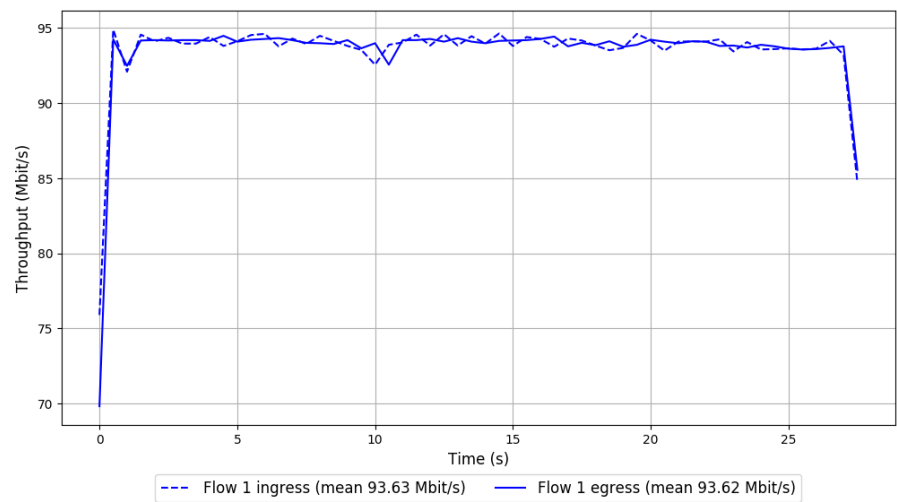
Figure is missing

Run 9: Statistics of TaoVA-100x

Start at: 2017-12-11 13:10:23
End at: 2017-12-11 13:10:53
Local clock offset: 0.057 ms
Remote clock offset: -12.341 ms

Below is generated by plot.py at 2017-12-11 16:40:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.62 Mbit/s
95th percentile per-packet one-way delay: 35.547 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 93.62 Mbit/s
95th percentile per-packet one-way delay: 35.547 ms
Loss rate: 0.10%

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



Run 10: Statistics of TaoVA-100x

Start at: 2017-12-11 13:27:31

End at: 2017-12-11 13:28:01

Local clock offset: -2.382 ms

Remote clock offset: -11.976 ms

Below is generated by plot.py at 2017-12-11 16:41:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.49 Mbit/s

95th percentile per-packet one-way delay: 33.174 ms

Loss rate: 0.10%

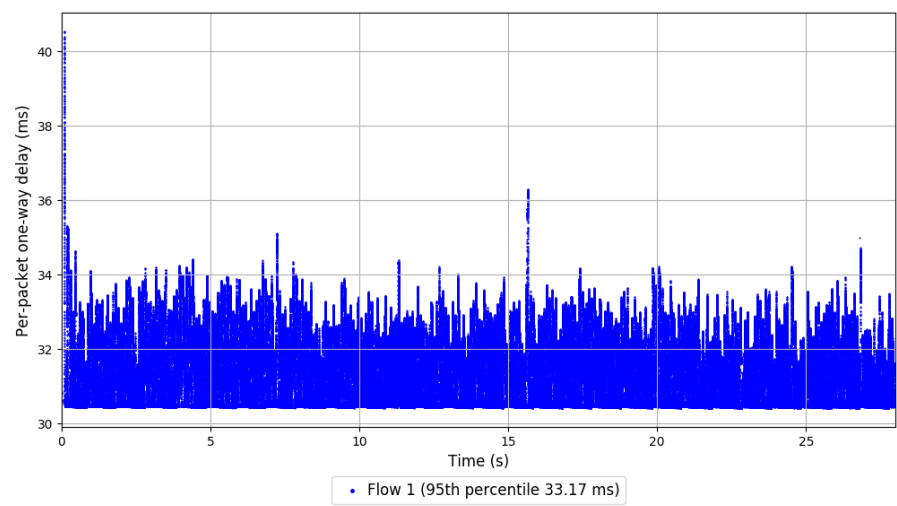
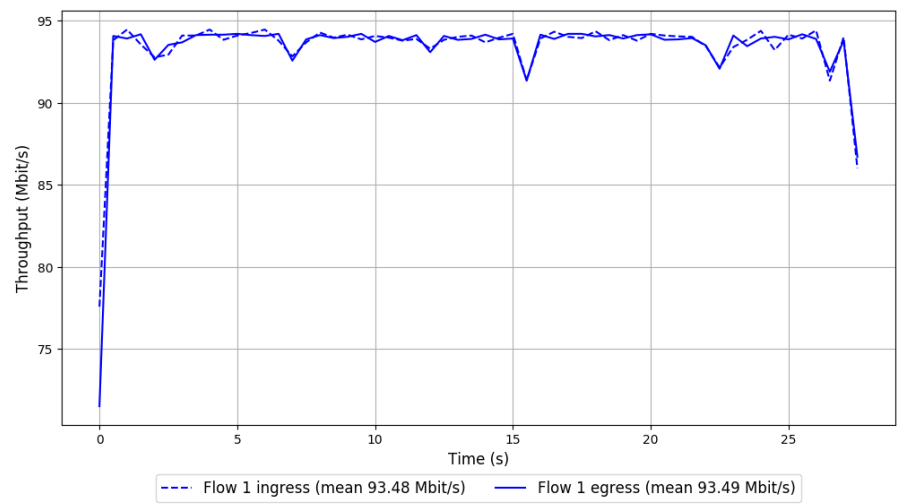
-- Flow 1:

Average throughput: 93.49 Mbit/s

95th percentile per-packet one-way delay: 33.174 ms

Loss rate: 0.10%

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

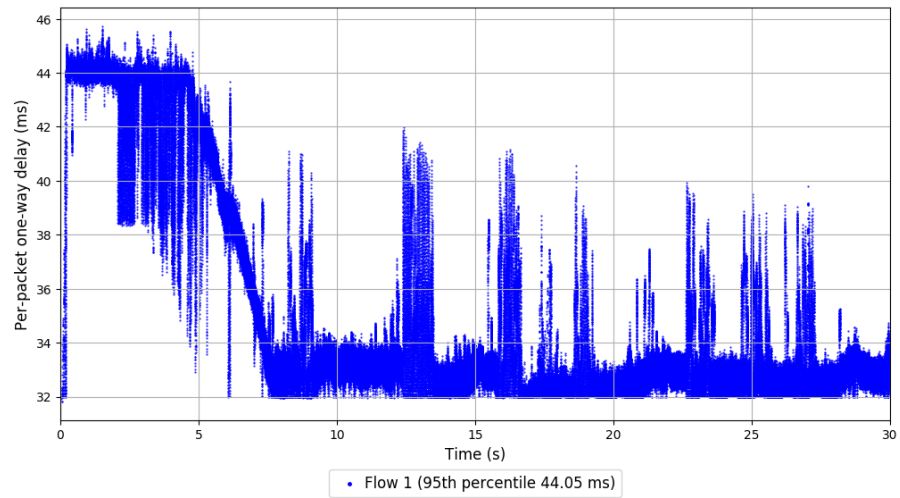
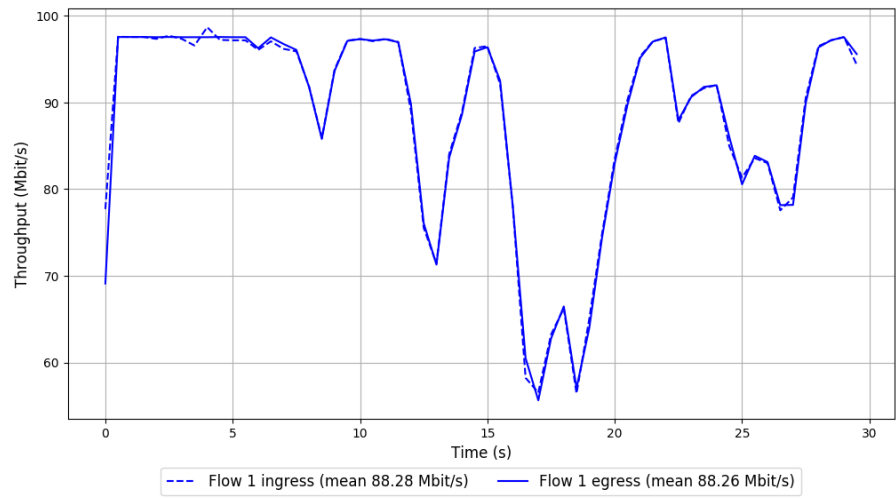


Run 1: Statistics of TCP Vegas

Start at: 2017-12-11 11:00:35
End at: 2017-12-11 11:01:05
Local clock offset: -2.722 ms
Remote clock offset: -11.826 ms

Below is generated by plot.py at 2017-12-11 16:41:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.26 Mbit/s
95th percentile per-packet one-way delay: 44.050 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 88.26 Mbit/s
95th percentile per-packet one-way delay: 44.050 ms
Loss rate: 0.11%

Run 1: Report of TCP Vegas — Data Link

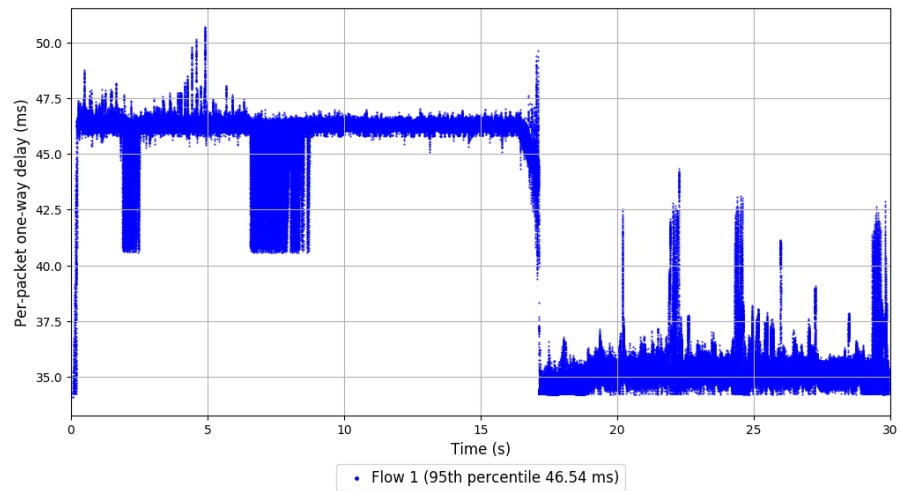
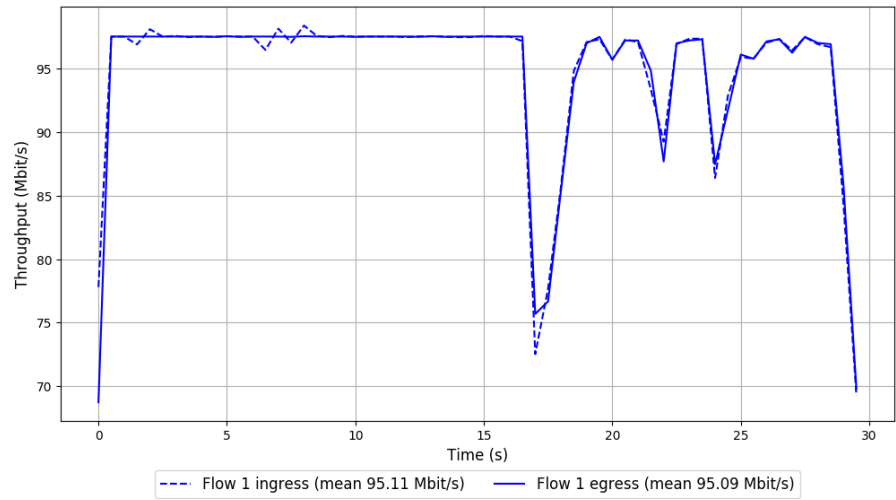


Run 2: Statistics of TCP Vegas

Start at: 2017-12-11 11:17:19
End at: 2017-12-11 11:17:49
Local clock offset: 0.114 ms
Remote clock offset: -10.424 ms

Below is generated by plot.py at 2017-12-11 16:41:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.09 Mbit/s
95th percentile per-packet one-way delay: 46.537 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 95.09 Mbit/s
95th percentile per-packet one-way delay: 46.537 ms
Loss rate: 0.09%

Run 2: Report of TCP Vegas — Data Link

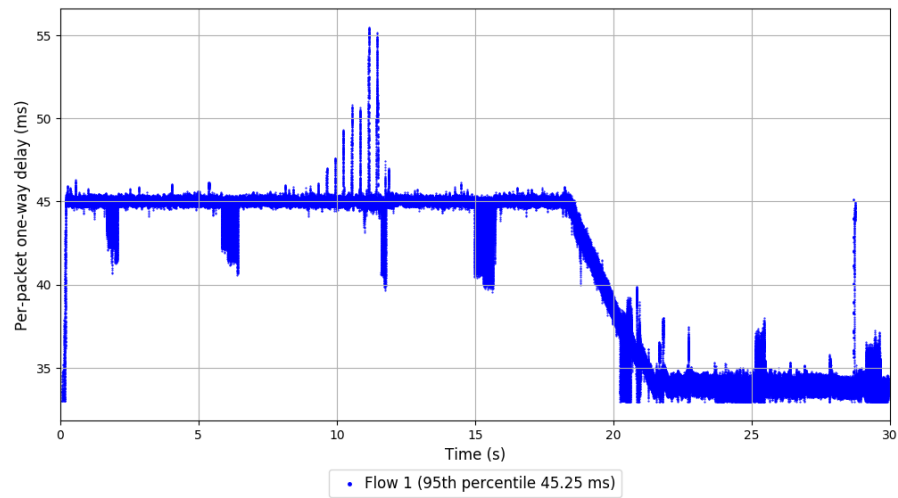
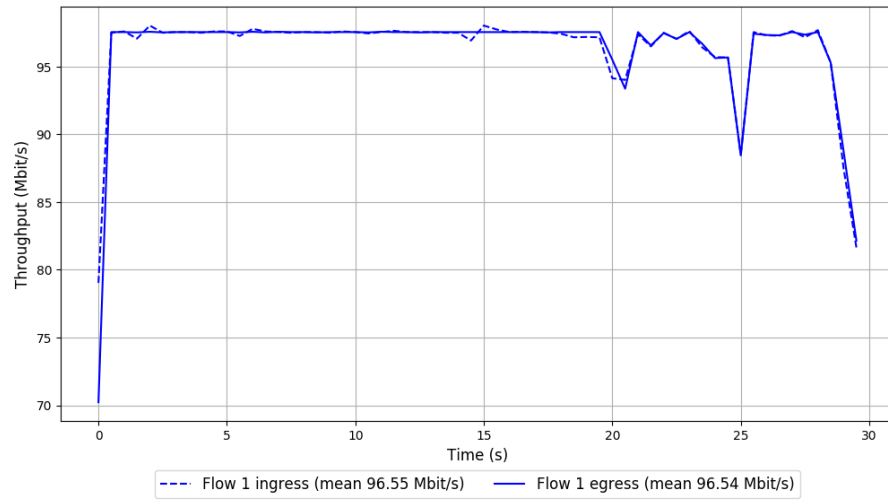


Run 3: Statistics of TCP Vegas

Start at: 2017-12-11 11:34:37
End at: 2017-12-11 11:35:07
Local clock offset: 0.389 ms
Remote clock offset: -9.234 ms

Below is generated by plot.py at 2017-12-11 16:41:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.54 Mbit/s
95th percentile per-packet one-way delay: 45.249 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 96.54 Mbit/s
95th percentile per-packet one-way delay: 45.249 ms
Loss rate: 0.08%

Run 3: Report of TCP Vegas — Data Link

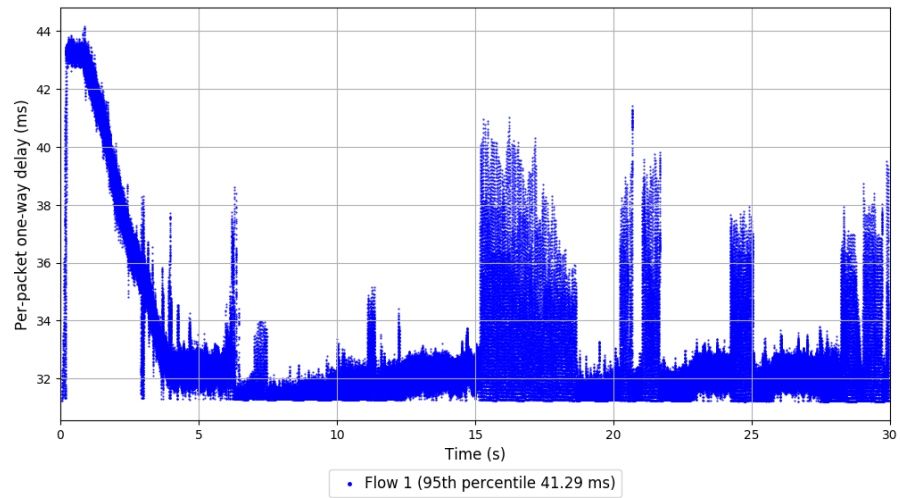
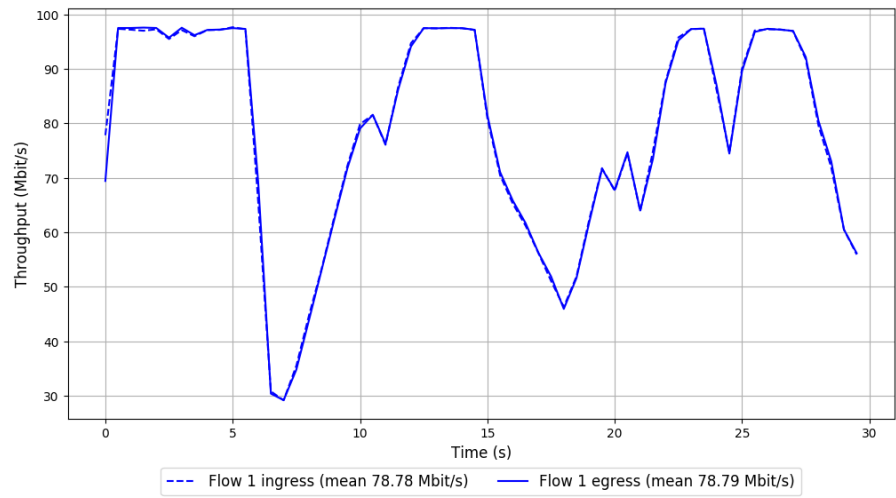


Run 4: Statistics of TCP Vegas

Start at: 2017-12-11 11:51:19
End at: 2017-12-11 11:51:49
Local clock offset: -2.618 ms
Remote clock offset: -12.038 ms

Below is generated by plot.py at 2017-12-11 16:41:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 78.79 Mbit/s
95th percentile per-packet one-way delay: 41.289 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 78.79 Mbit/s
95th percentile per-packet one-way delay: 41.289 ms
Loss rate: 0.10%

Run 4: Report of TCP Vegas — Data Link

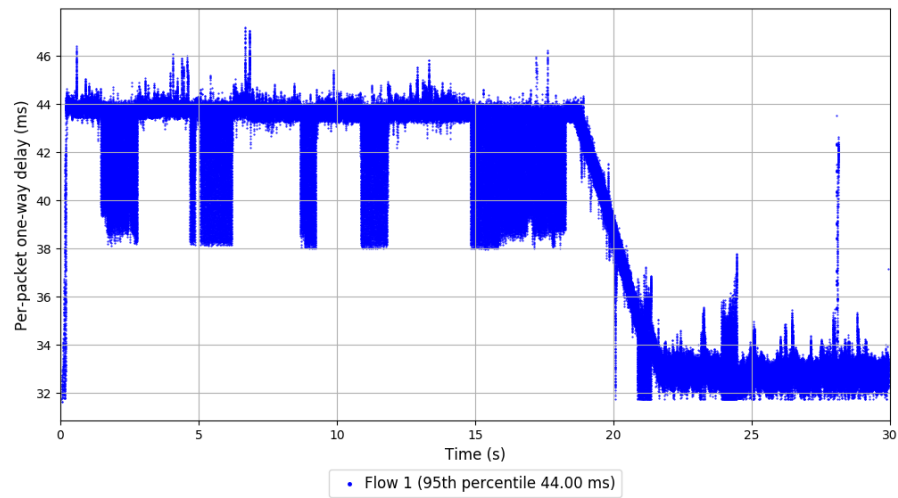
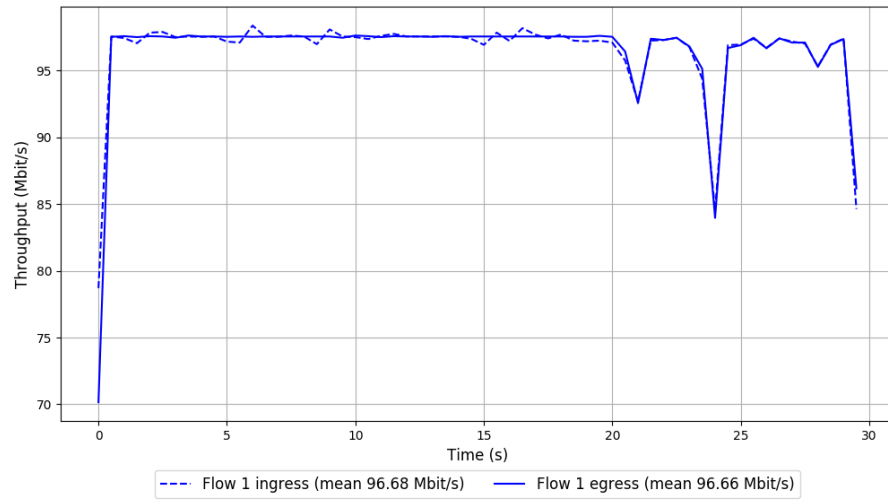


Run 5: Statistics of TCP Vegas

Start at: 2017-12-11 12:08:16
End at: 2017-12-11 12:08:46
Local clock offset: -1.101 ms
Remote clock offset: -11.508 ms

Below is generated by plot.py at 2017-12-11 16:41:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.66 Mbit/s
95th percentile per-packet one-way delay: 43.999 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.66 Mbit/s
95th percentile per-packet one-way delay: 43.999 ms
Loss rate: 0.09%

Run 5: Report of TCP Vegas — Data Link

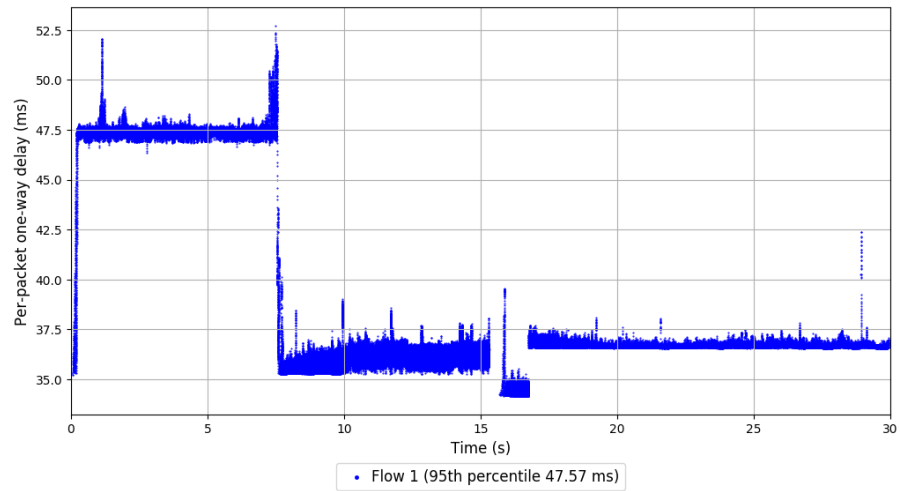
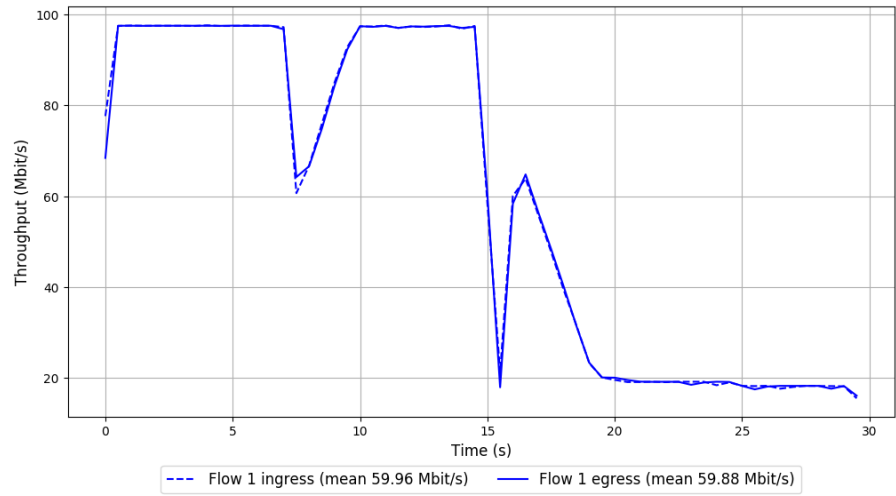


Run 6: Statistics of TCP Vegas

Start at: 2017-12-11 12:25:09
End at: 2017-12-11 12:25:39
Local clock offset: 0.633 ms
Remote clock offset: -12.932 ms

Below is generated by plot.py at 2017-12-11 16:41:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 59.88 Mbit/s
95th percentile per-packet one-way delay: 47.573 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 59.88 Mbit/s
95th percentile per-packet one-way delay: 47.573 ms
Loss rate: 0.21%

Run 6: Report of TCP Vegas — Data Link

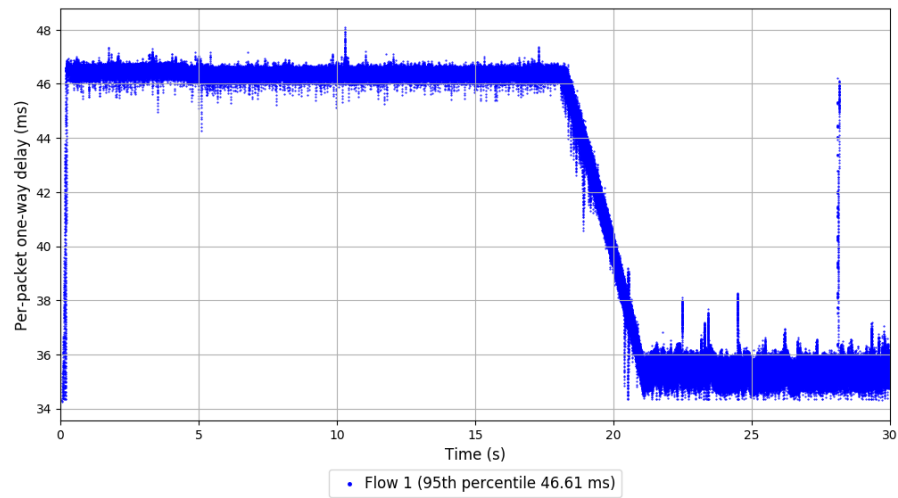
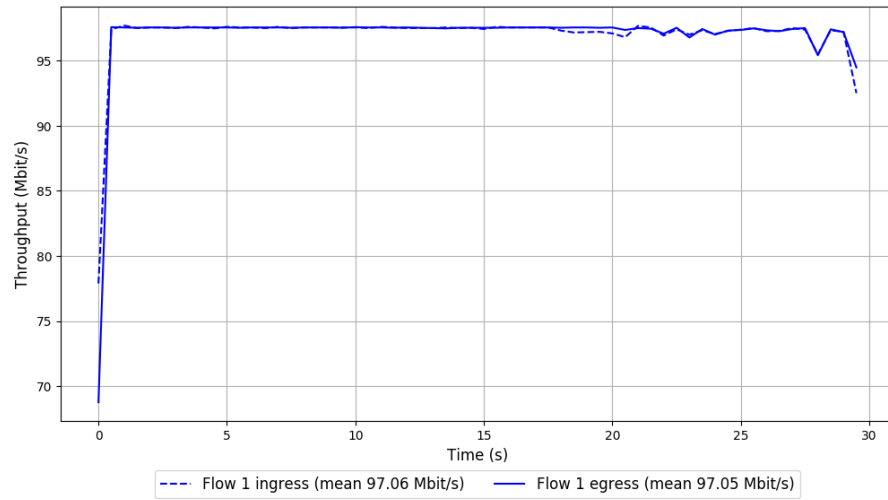


Run 7: Statistics of TCP Vegas

Start at: 2017-12-11 12:42:00
End at: 2017-12-11 12:42:30
Local clock offset: 0.932 ms
Remote clock offset: -12.973 ms

Below is generated by plot.py at 2017-12-11 16:41:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.05 Mbit/s
95th percentile per-packet one-way delay: 46.614 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 97.05 Mbit/s
95th percentile per-packet one-way delay: 46.614 ms
Loss rate: 0.08%

Run 7: Report of TCP Vegas — Data Link

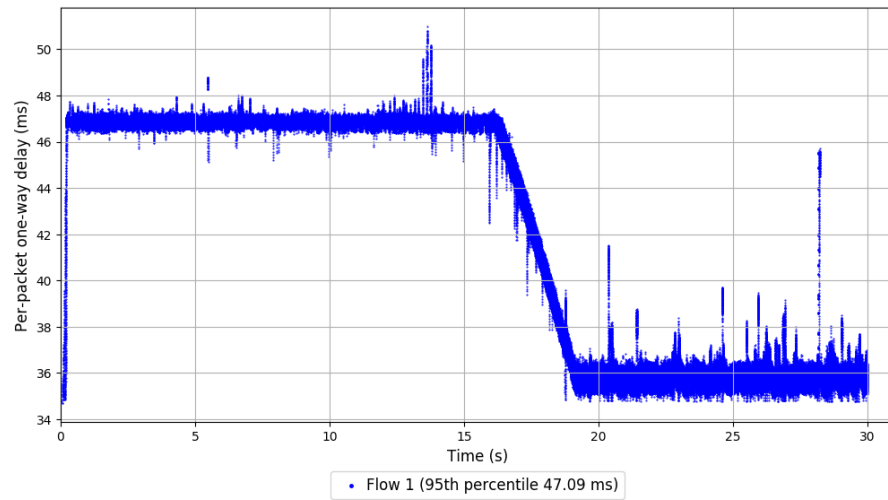
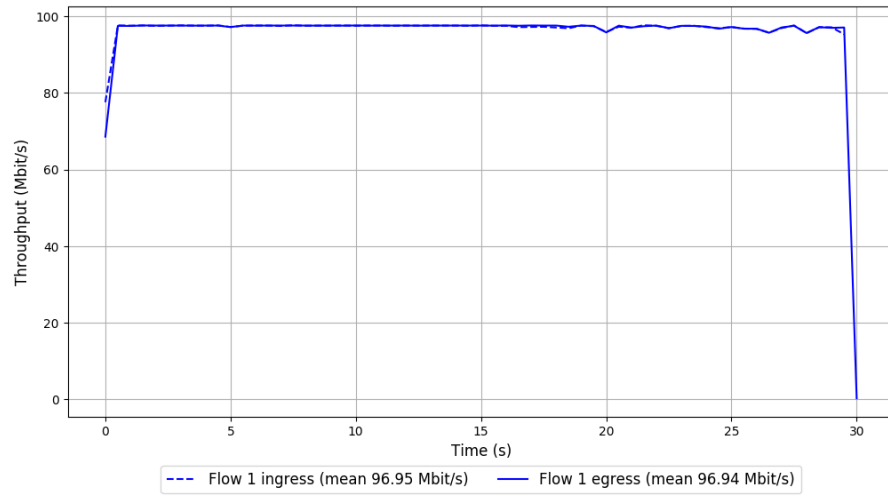


Run 8: Statistics of TCP Vegas

Start at: 2017-12-11 12:58:18
End at: 2017-12-11 12:58:48
Local clock offset: -0.097 ms
Remote clock offset: -15.327 ms

Below is generated by plot.py at 2017-12-11 16:42:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.94 Mbit/s
95th percentile per-packet one-way delay: 47.087 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.94 Mbit/s
95th percentile per-packet one-way delay: 47.087 ms
Loss rate: 0.09%

Run 8: Report of TCP Vegas — Data Link

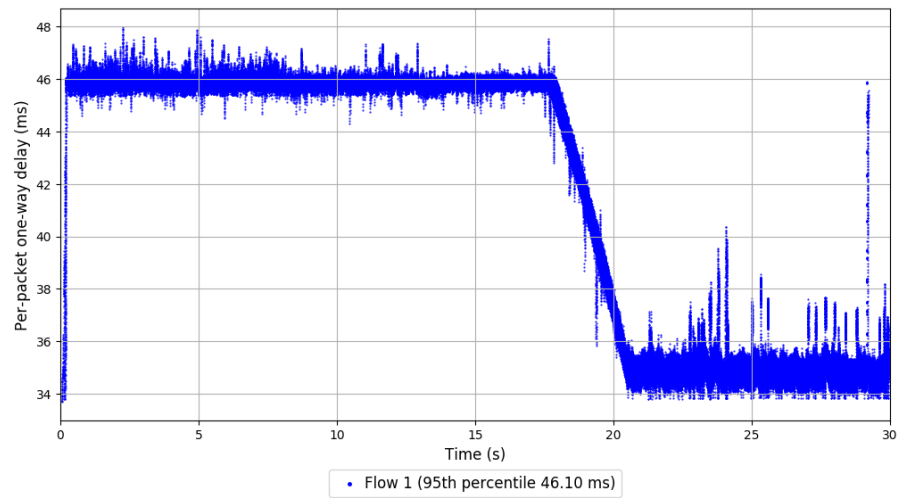
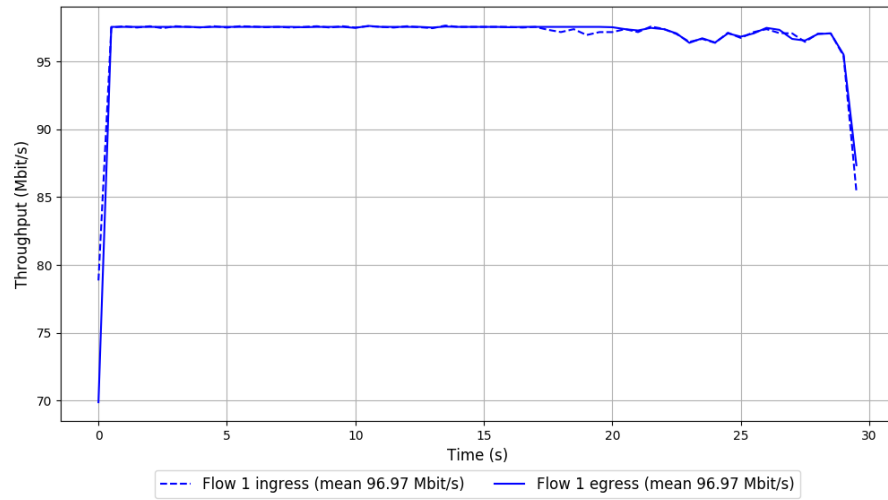


Run 9: Statistics of TCP Vegas

Start at: 2017-12-11 13:15:21
End at: 2017-12-11 13:15:51
Local clock offset: 0.551 ms
Remote clock offset: -12.795 ms

Below is generated by plot.py at 2017-12-11 16:42:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.97 Mbit/s
95th percentile per-packet one-way delay: 46.101 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 96.97 Mbit/s
95th percentile per-packet one-way delay: 46.101 ms
Loss rate: 0.08%

Run 9: Report of TCP Vegas — Data Link

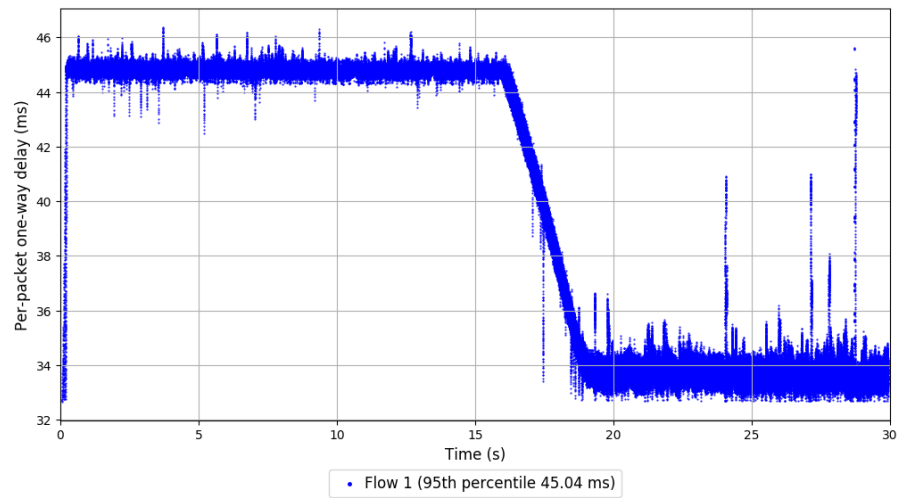
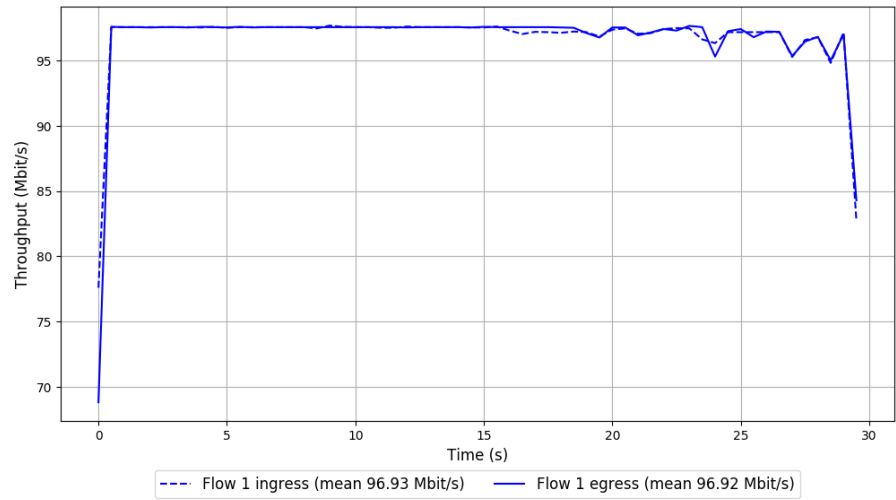


Run 10: Statistics of TCP Vegas

Start at: 2017-12-11 13:32:20
End at: 2017-12-11 13:32:50
Local clock offset: -1.422 ms
Remote clock offset: -14.154 ms

Below is generated by plot.py at 2017-12-11 16:42:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.92 Mbit/s
95th percentile per-packet one-way delay: 45.044 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.92 Mbit/s
95th percentile per-packet one-way delay: 45.044 ms
Loss rate: 0.09%

Run 10: Report of TCP Vegas — Data Link

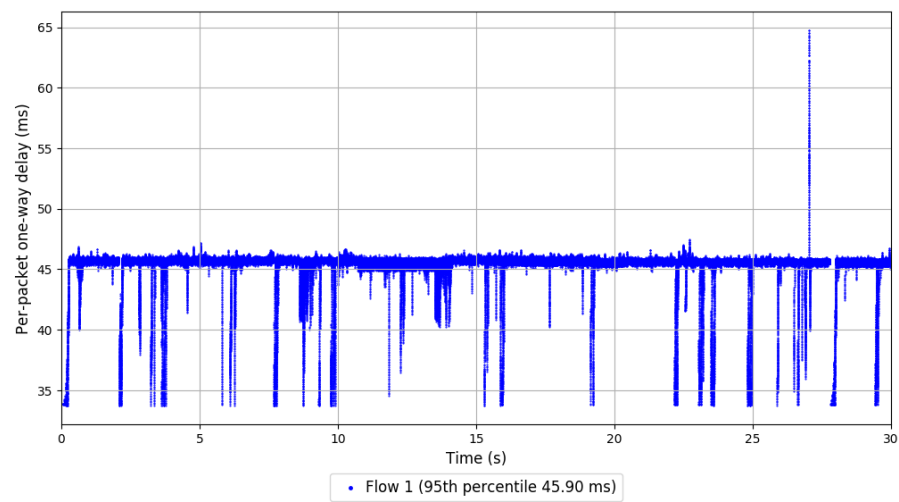
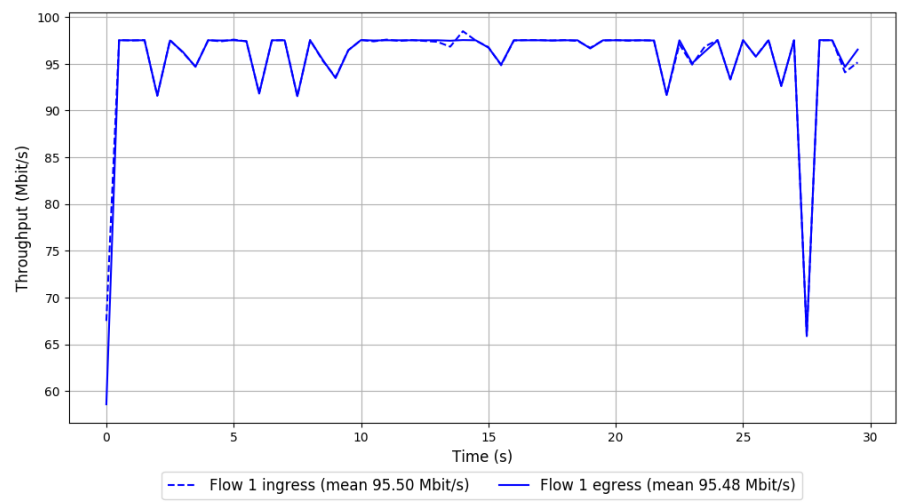


Run 1: Statistics of Verus

Start at: 2017-12-11 11:04:05
End at: 2017-12-11 11:04:35
Local clock offset: -0.093 ms
Remote clock offset: -10.565 ms

Below is generated by plot.py at 2017-12-11 16:42:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.48 Mbit/s
95th percentile per-packet one-way delay: 45.901 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 95.48 Mbit/s
95th percentile per-packet one-way delay: 45.901 ms
Loss rate: 0.12%

Run 1: Report of Verus — Data Link

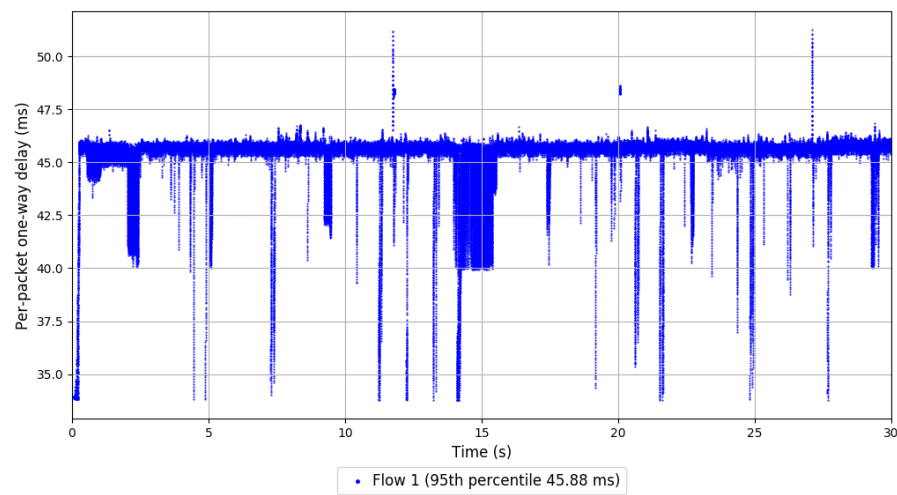
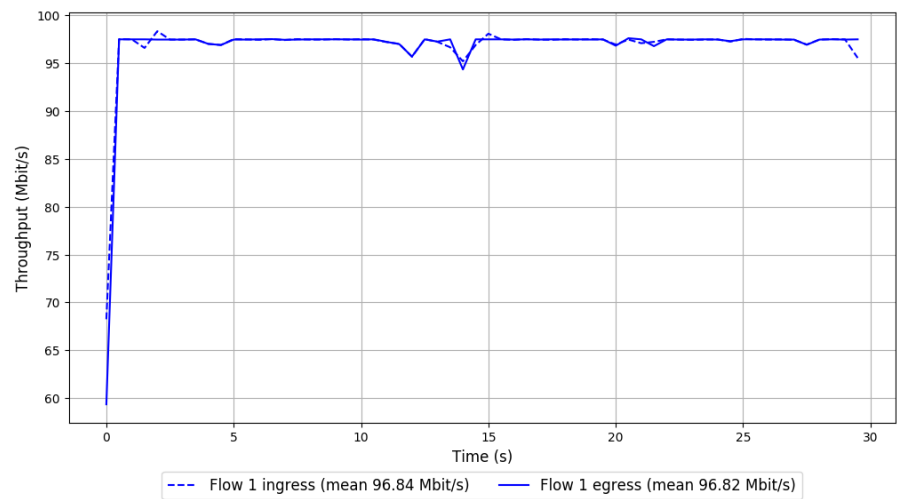


Run 2: Statistics of Verus

Start at: 2017-12-11 11:20:59
End at: 2017-12-11 11:21:29
Local clock offset: -0.551 ms
Remote clock offset: -10.778 ms

Below is generated by plot.py at 2017-12-11 16:42:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.82 Mbit/s
95th percentile per-packet one-way delay: 45.877 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 96.82 Mbit/s
95th percentile per-packet one-way delay: 45.877 ms
Loss rate: 0.12%

Run 2: Report of Verus — Data Link

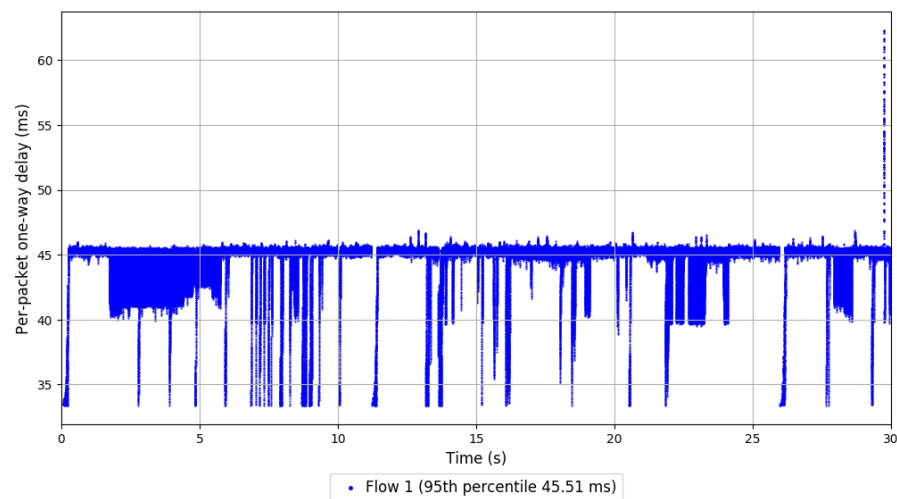
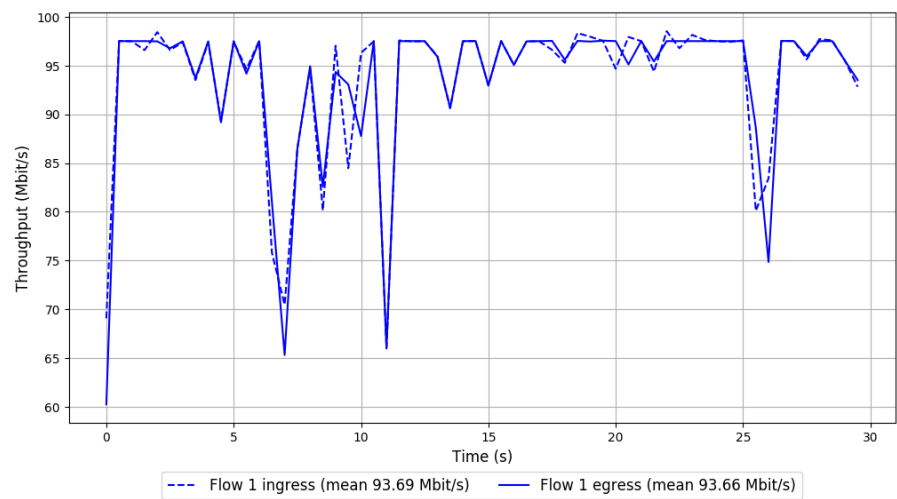


Run 3: Statistics of Verus

Start at: 2017-12-11 11:38:11
End at: 2017-12-11 11:38:41
Local clock offset: 0.557 ms
Remote clock offset: -9.595 ms

Below is generated by plot.py at 2017-12-11 16:42:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.66 Mbit/s
95th percentile per-packet one-way delay: 45.506 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 93.66 Mbit/s
95th percentile per-packet one-way delay: 45.506 ms
Loss rate: 0.14%

Run 3: Report of Verus — Data Link

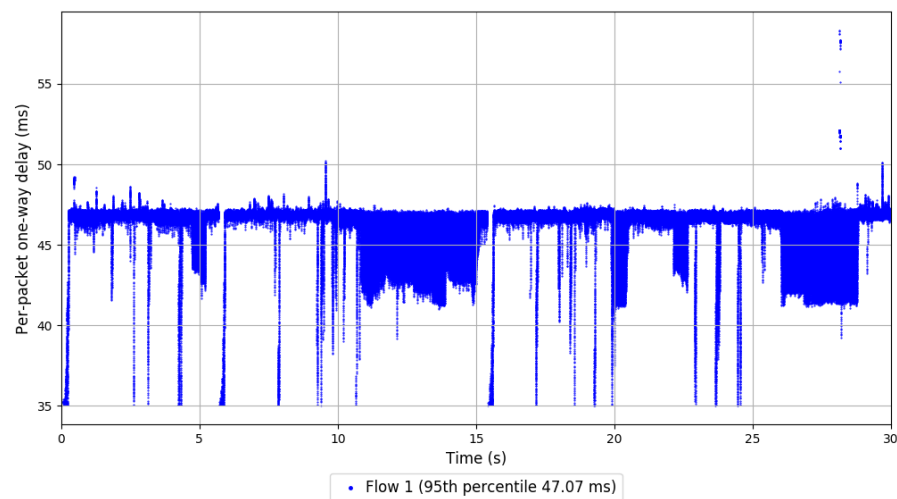
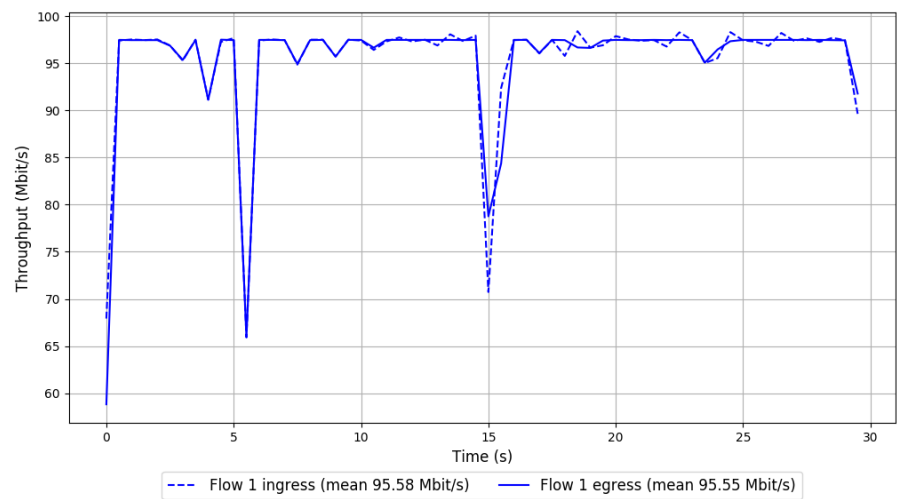


Run 4: Statistics of Verus

Start at: 2017-12-11 11:54:47
End at: 2017-12-11 11:55:17
Local clock offset: 1.748 ms
Remote clock offset: -11.918 ms

Below is generated by plot.py at 2017-12-11 16:42:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.55 Mbit/s
95th percentile per-packet one-way delay: 47.073 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 95.55 Mbit/s
95th percentile per-packet one-way delay: 47.073 ms
Loss rate: 0.12%

Run 4: Report of Verus — Data Link

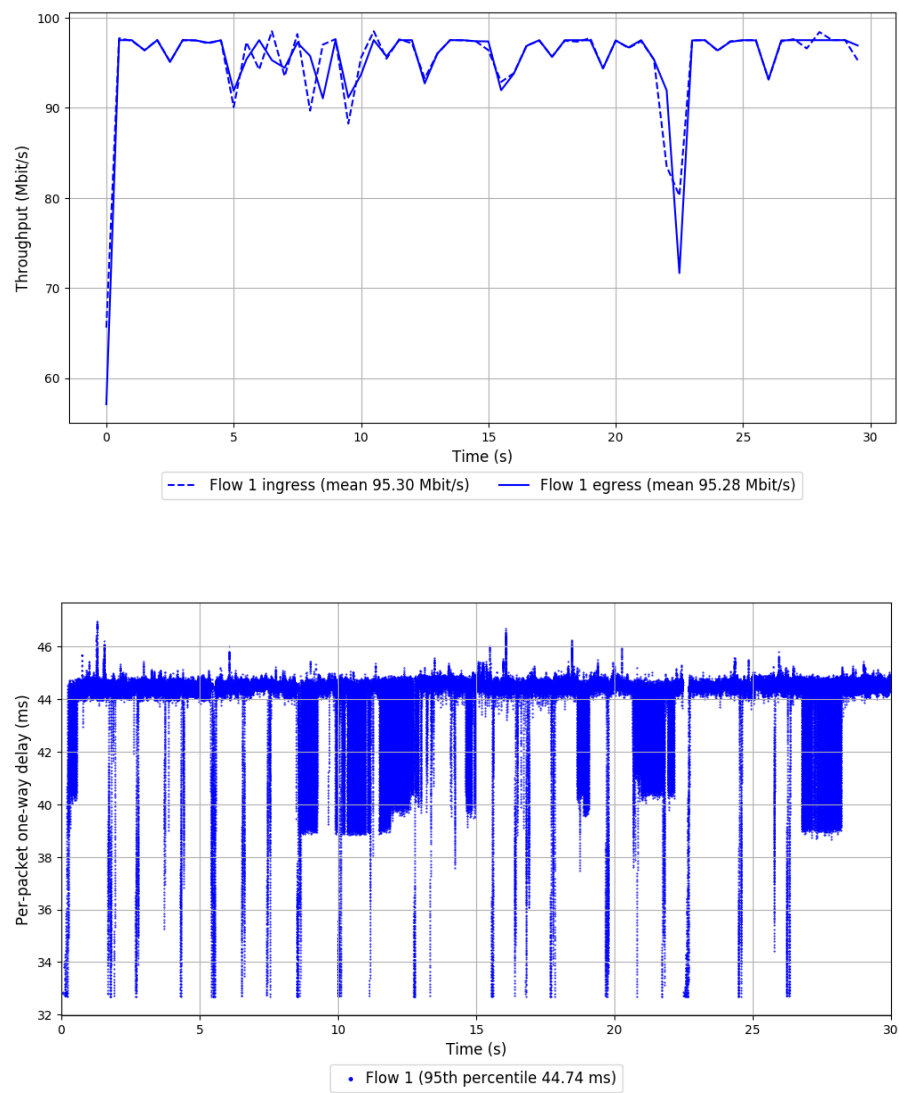


Run 5: Statistics of Verus

Start at: 2017-12-11 12:11:52
End at: 2017-12-11 12:12:23
Local clock offset: -0.656 ms
Remote clock offset: -11.928 ms

Below is generated by plot.py at 2017-12-11 16:43:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.28 Mbit/s
95th percentile per-packet one-way delay: 44.745 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 95.28 Mbit/s
95th percentile per-packet one-way delay: 44.745 ms
Loss rate: 0.12%

Run 5: Report of Verus — Data Link

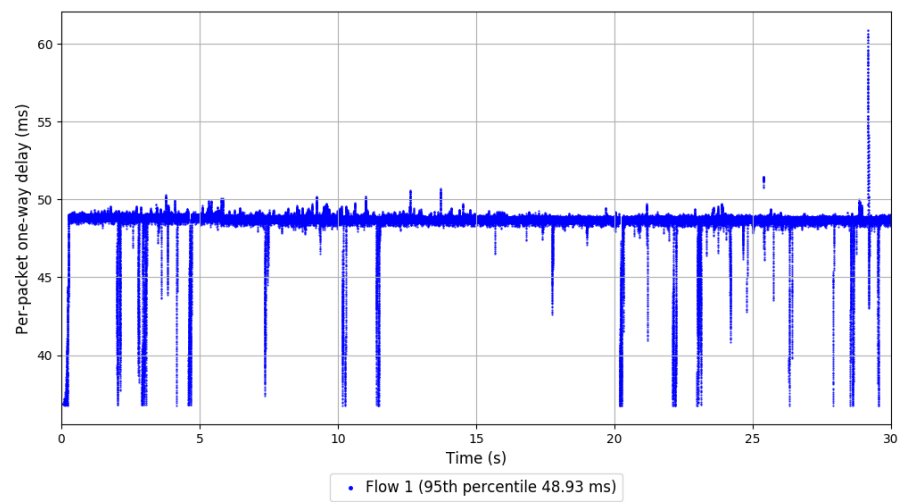
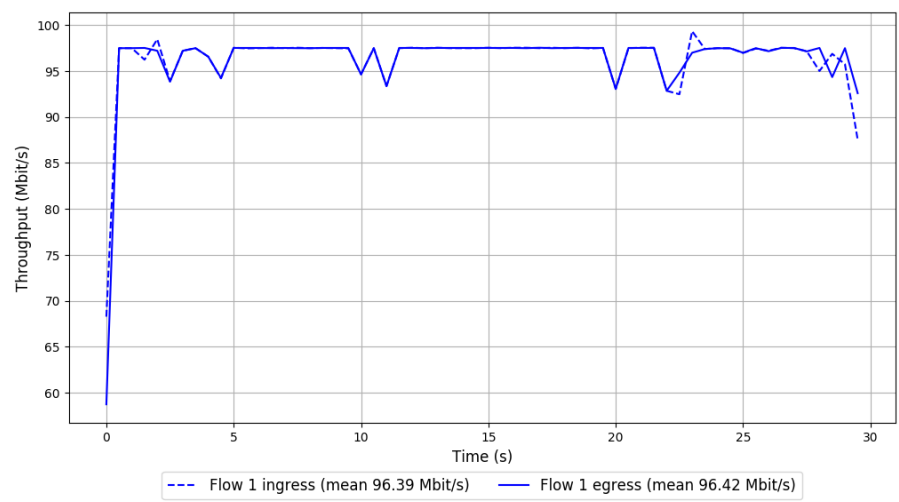


Run 6: Statistics of Verus

Start at: 2017-12-11 12:28:35
End at: 2017-12-11 12:29:05
Local clock offset: 1.515 ms
Remote clock offset: -13.83 ms

Below is generated by plot.py at 2017-12-11 16:43:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.42 Mbit/s
95th percentile per-packet one-way delay: 48.931 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 96.42 Mbit/s
95th percentile per-packet one-way delay: 48.931 ms
Loss rate: 0.05%

Run 6: Report of Verus — Data Link

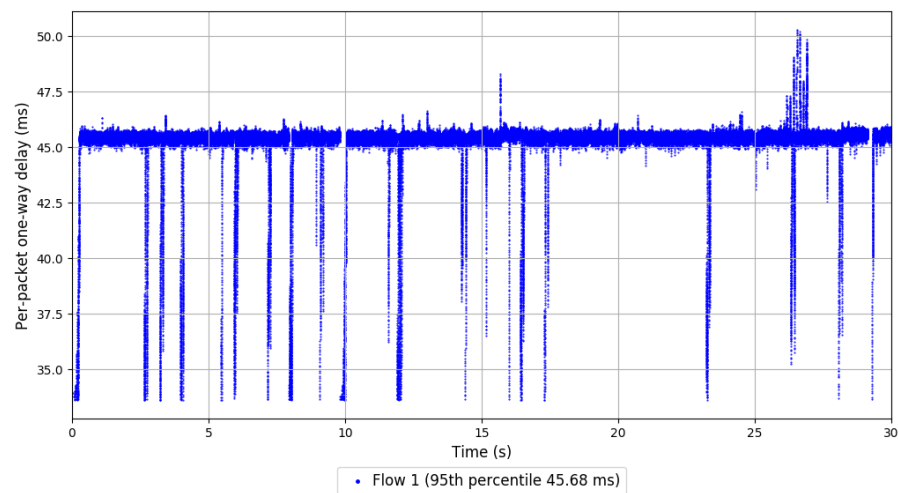
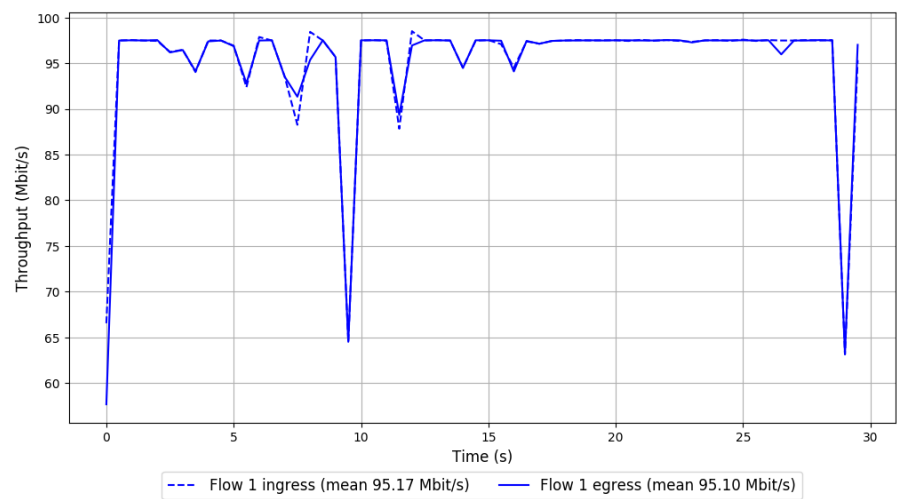


Run 7: Statistics of Verus

Start at: 2017-12-11 12:45:26
End at: 2017-12-11 12:45:56
Local clock offset: 1.418 ms
Remote clock offset: -11.827 ms

Below is generated by plot.py at 2017-12-11 16:43:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.10 Mbit/s
95th percentile per-packet one-way delay: 45.677 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 95.10 Mbit/s
95th percentile per-packet one-way delay: 45.677 ms
Loss rate: 0.15%

Run 7: Report of Verus — Data Link

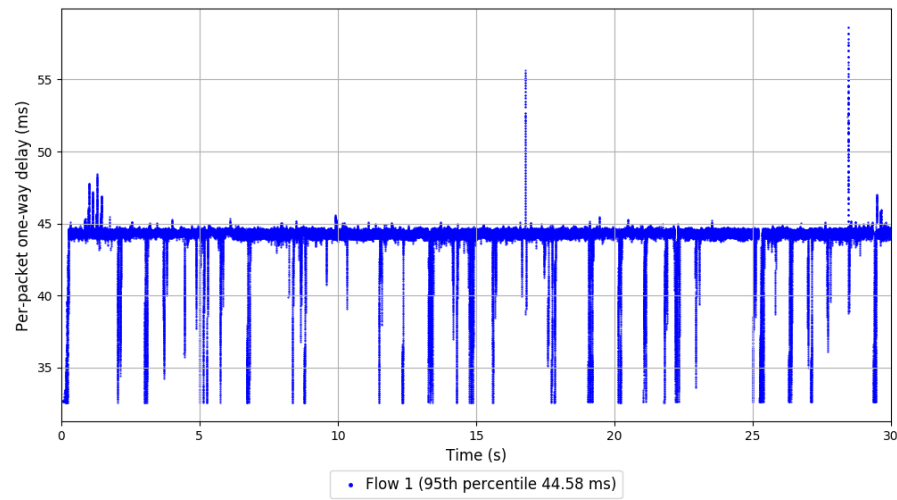
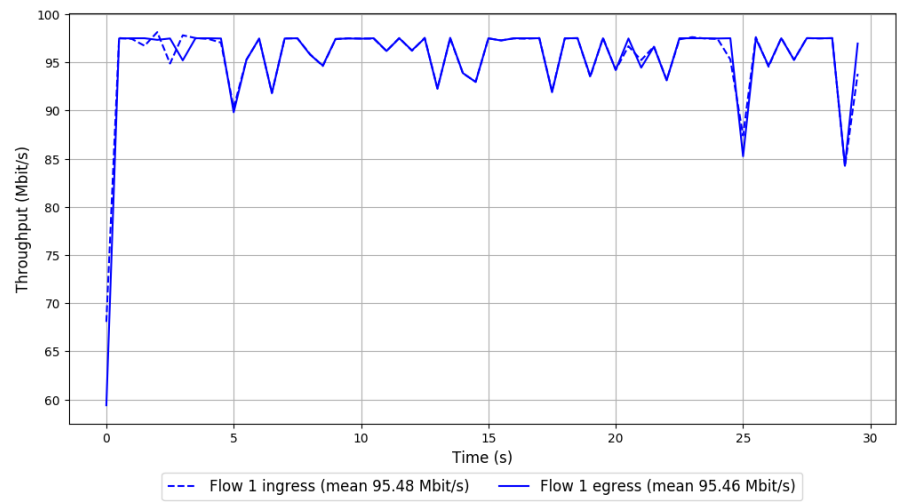


Run 8: Statistics of Verus

Start at: 2017-12-11 13:01:53
End at: 2017-12-11 13:02:23
Local clock offset: -1.627 ms
Remote clock offset: -14.534 ms

Below is generated by plot.py at 2017-12-11 16:43:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.46 Mbit/s
95th percentile per-packet one-way delay: 44.577 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 95.46 Mbit/s
95th percentile per-packet one-way delay: 44.577 ms
Loss rate: 0.10%

Run 8: Report of Verus — Data Link

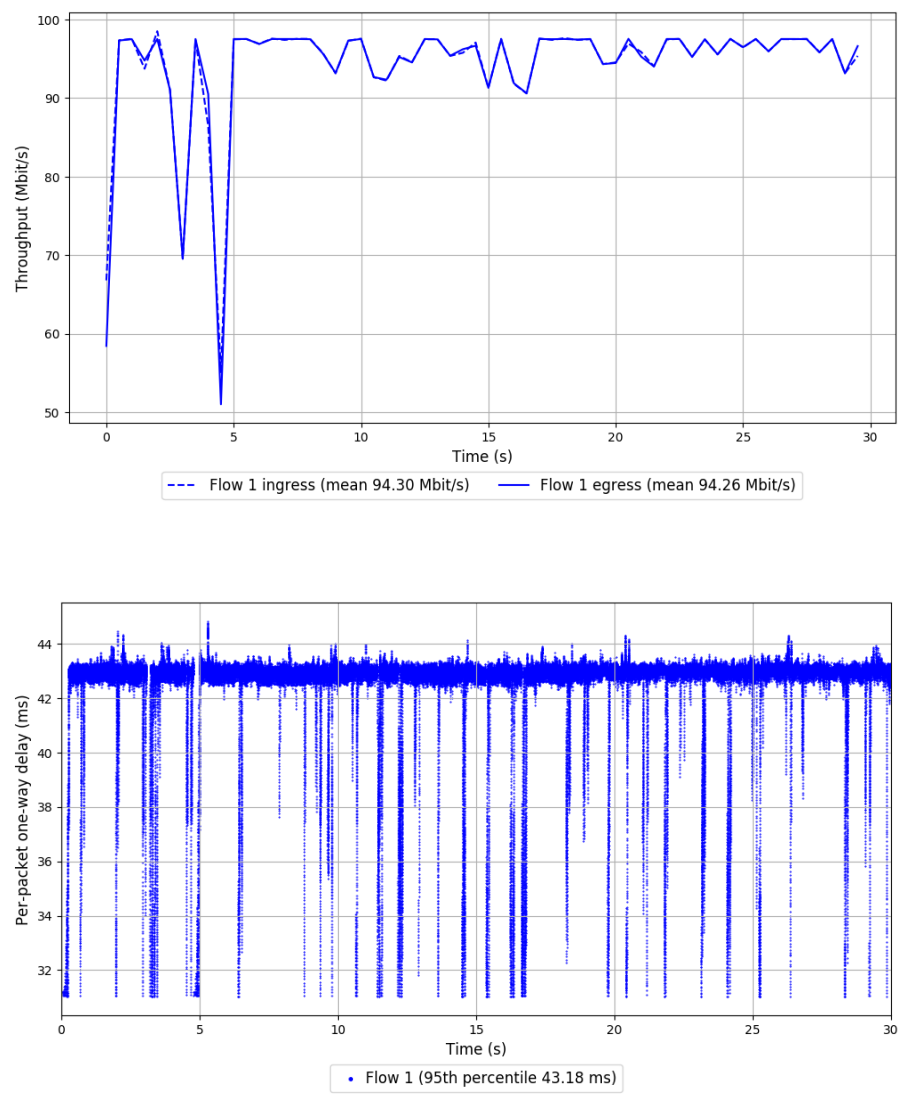


Run 9: Statistics of Verus

Start at: 2017-12-11 13:18:50
End at: 2017-12-11 13:19:20
Local clock offset: -2.386 ms
Remote clock offset: -12.882 ms

Below is generated by plot.py at 2017-12-11 16:43:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.26 Mbit/s
95th percentile per-packet one-way delay: 43.184 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 94.26 Mbit/s
95th percentile per-packet one-way delay: 43.184 ms
Loss rate: 0.13%

Run 9: Report of Verus — Data Link

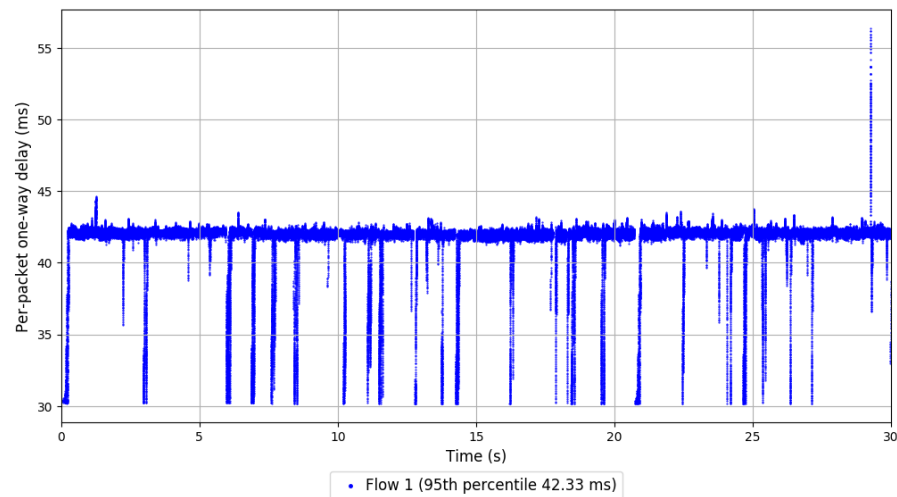
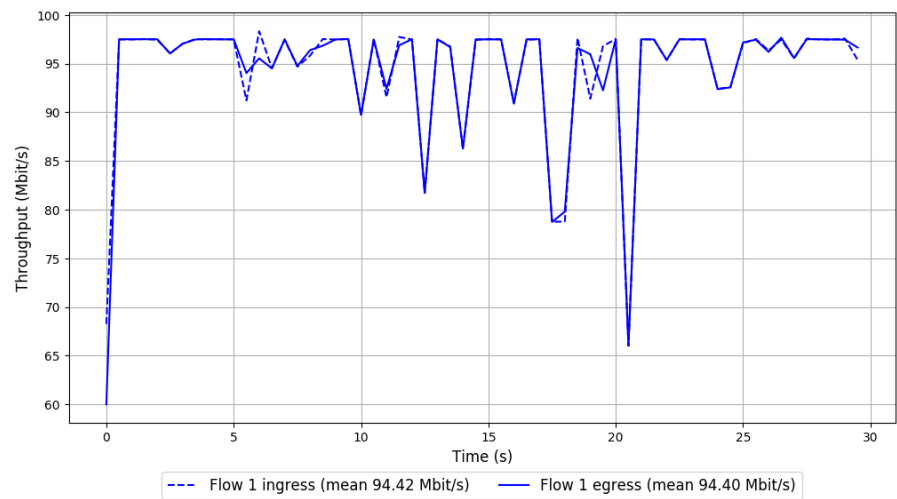


Run 10: Statistics of Verus

Start at: 2017-12-11 13:35:51
End at: 2017-12-11 13:36:21
Local clock offset: -2.667 ms
Remote clock offset: -13.228 ms

Below is generated by plot.py at 2017-12-11 16:43:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.40 Mbit/s
95th percentile per-packet one-way delay: 42.329 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 94.40 Mbit/s
95th percentile per-packet one-way delay: 42.329 ms
Loss rate: 0.12%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

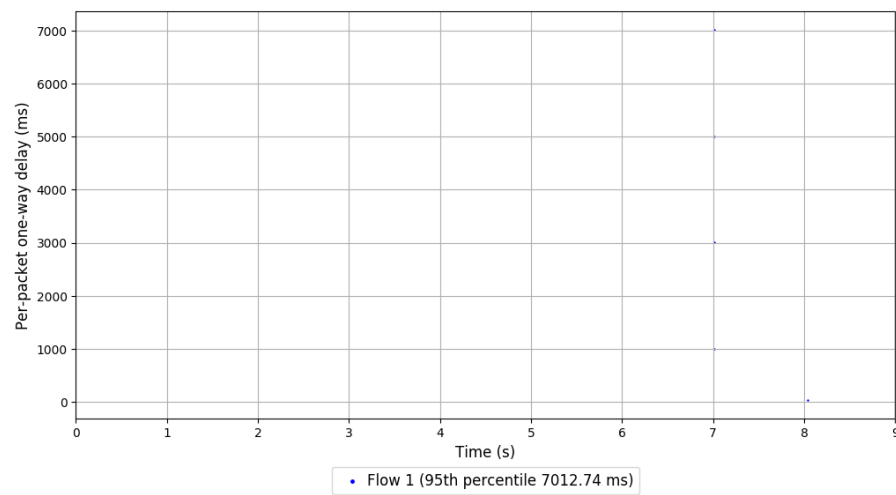
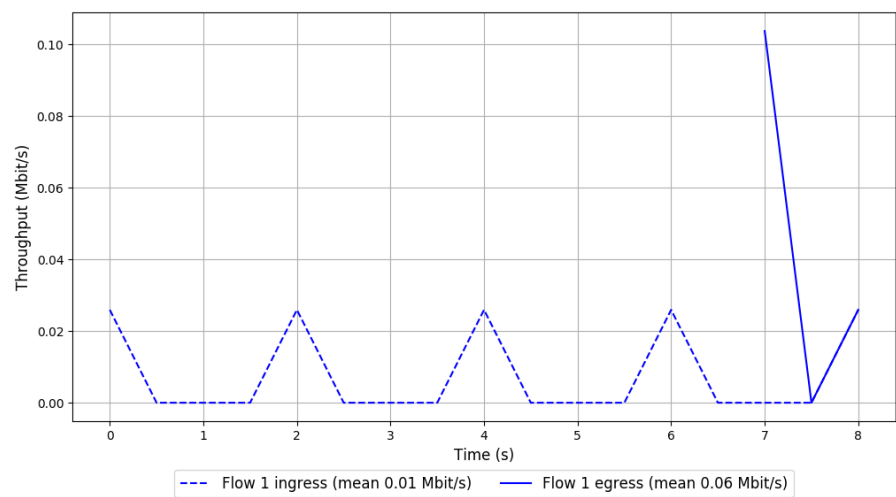
Start at: 2017-12-11 11:05:19

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

Local clock offset: -2.361 ms

Remote clock offset: -10.911 ms

Run 1: Report of Copa — Data Link

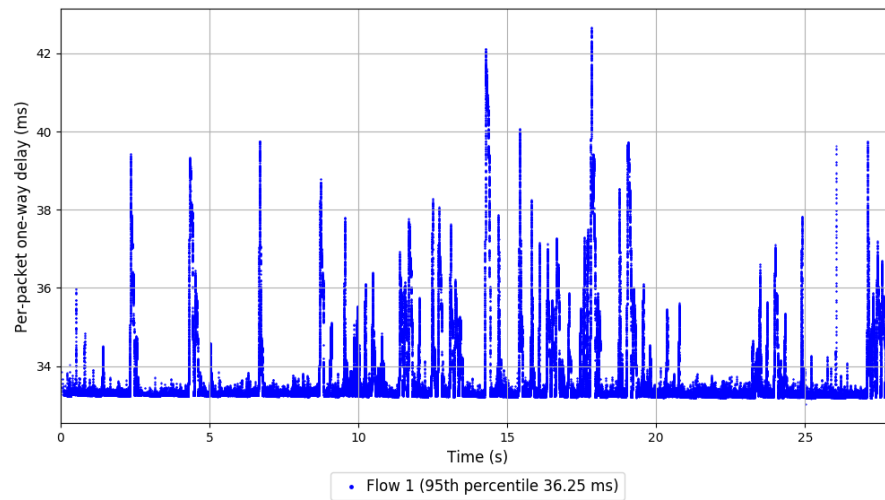
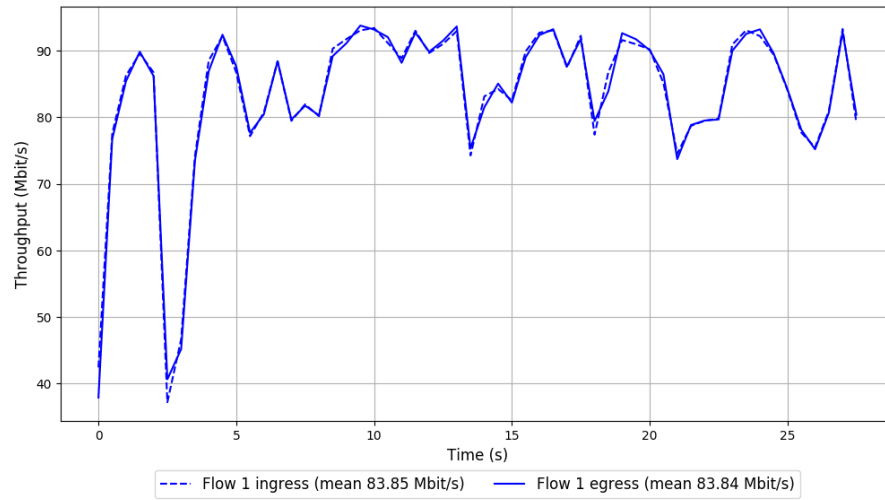


Run 2: Statistics of Copa

Start at: 2017-12-11 11:22:20
End at: 2017-12-11 11:22:50
Local clock offset: 0.382 ms
Remote clock offset: -9.462 ms

Below is generated by plot.py at 2017-12-11 16:44:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 83.84 Mbit/s
95th percentile per-packet one-way delay: 36.250 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 83.84 Mbit/s
95th percentile per-packet one-way delay: 36.250 ms
Loss rate: 0.10%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

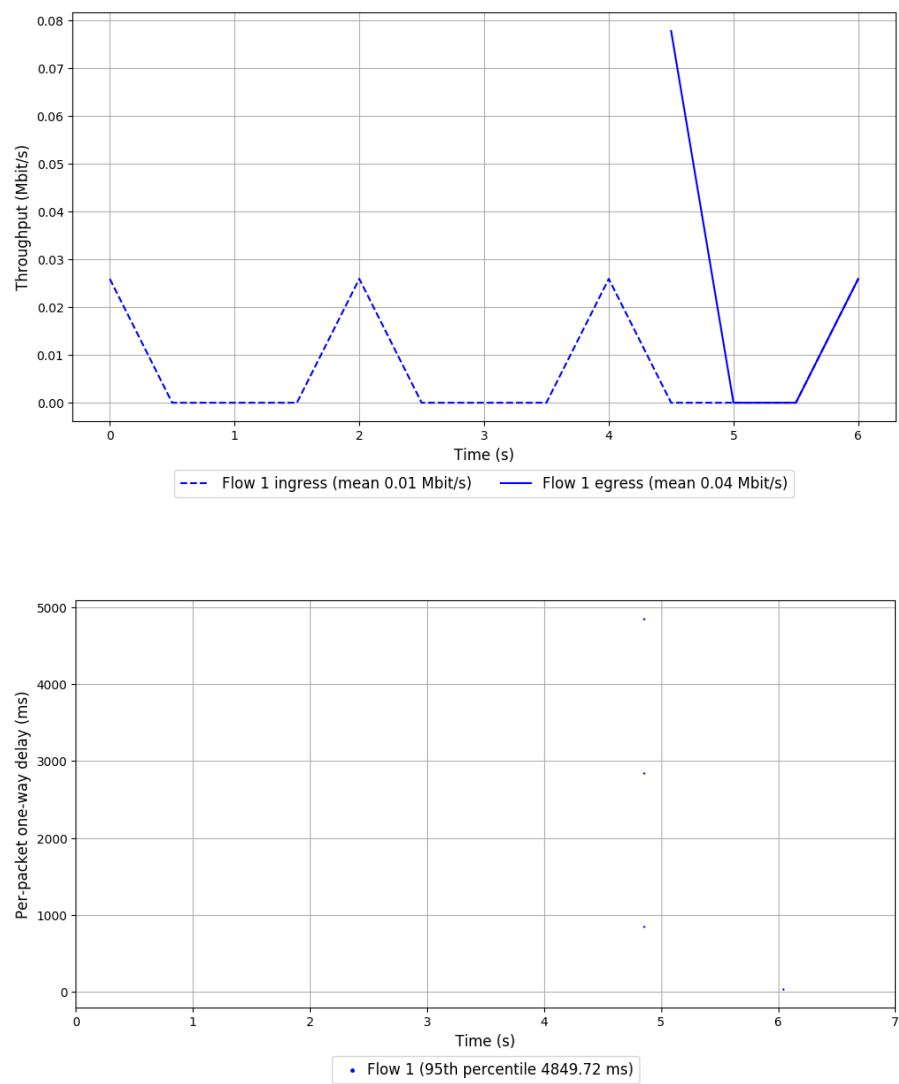
Start at: 2017-12-11 11:39:27

End at: 2017-12-11 11:39:57

Local clock offset: -0.233 ms

Remote clock offset: -10.343 ms

Run 3: Report of Copa — Data Link

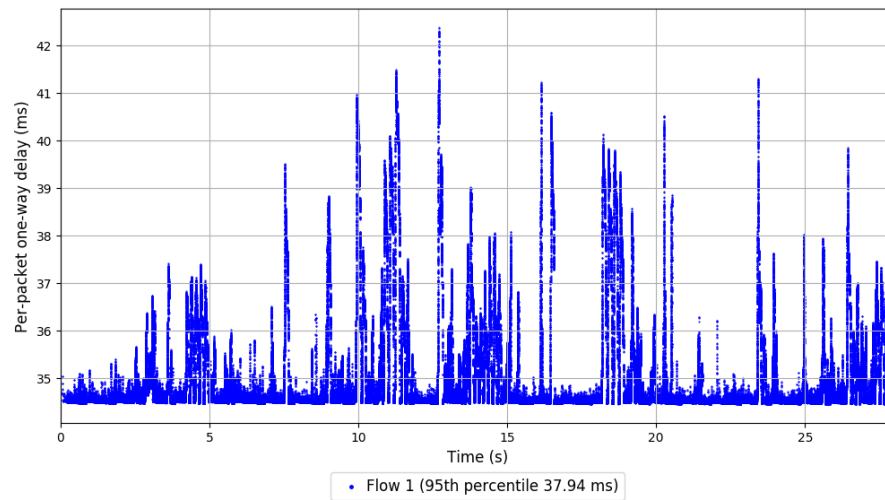
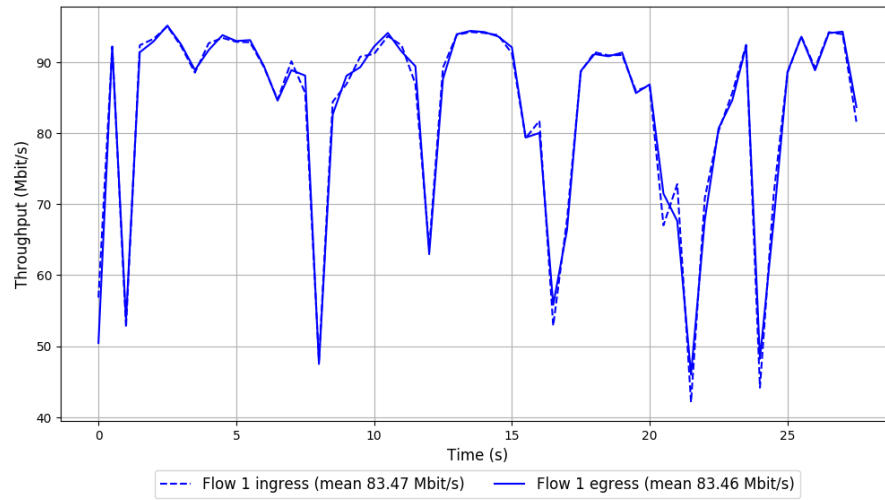


Run 4: Statistics of Copa

Start at: 2017-12-11 11:56:05
End at: 2017-12-11 11:56:35
Local clock offset: -0.55 ms
Remote clock offset: -13.74 ms

Below is generated by plot.py at 2017-12-11 16:44:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 83.46 Mbit/s
95th percentile per-packet one-way delay: 37.942 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 83.46 Mbit/s
95th percentile per-packet one-way delay: 37.942 ms
Loss rate: 0.09%

Run 4: Report of Copa — Data Link

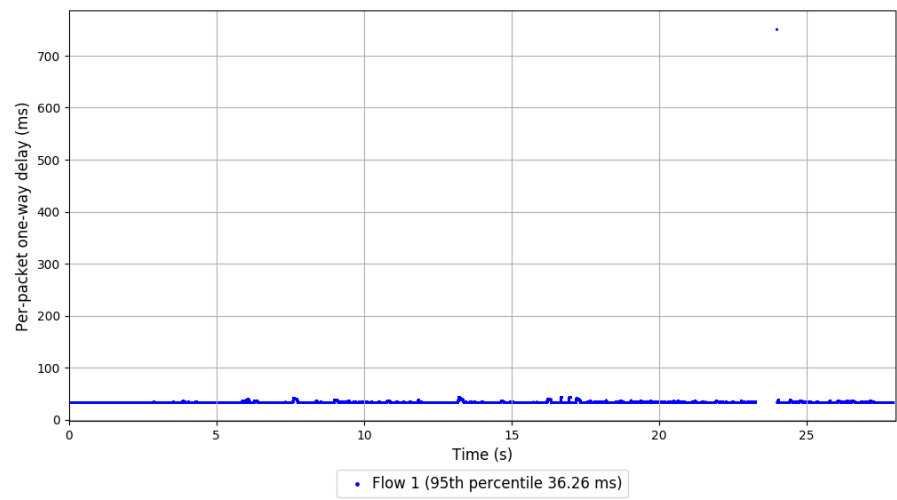
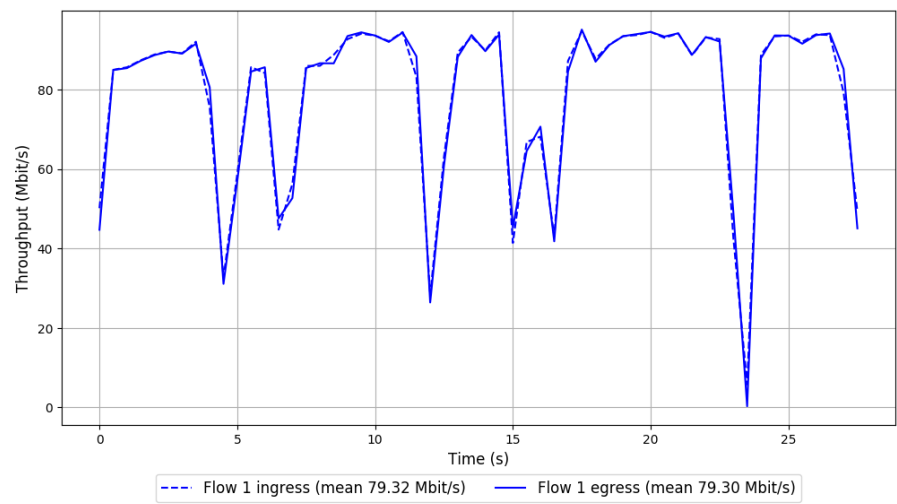


Run 5: Statistics of Copa

Start at: 2017-12-11 12:13:06
End at: 2017-12-11 12:13:36
Local clock offset: -1.528 ms
Remote clock offset: -13.223 ms

Below is generated by plot.py at 2017-12-11 16:45:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 79.30 Mbit/s
95th percentile per-packet one-way delay: 36.256 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 79.30 Mbit/s
95th percentile per-packet one-way delay: 36.256 ms
Loss rate: 0.11%

Run 5: Report of Copa — Data Link

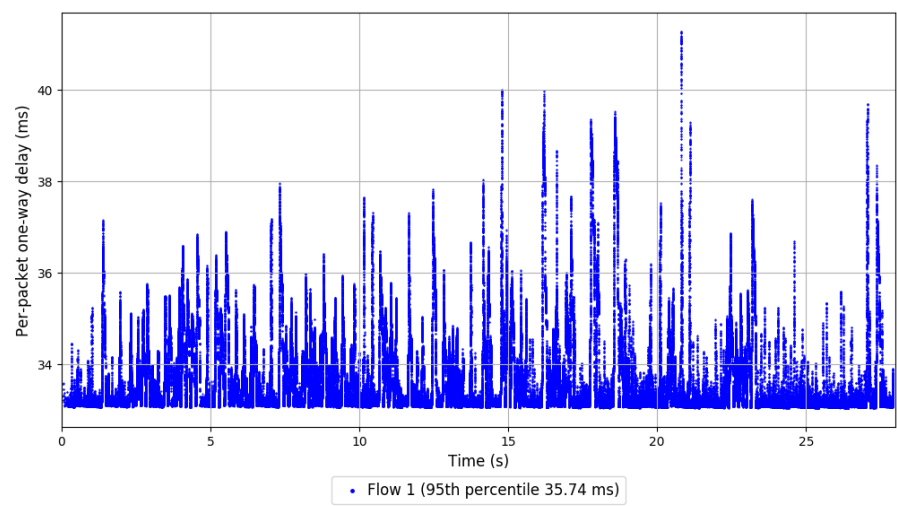
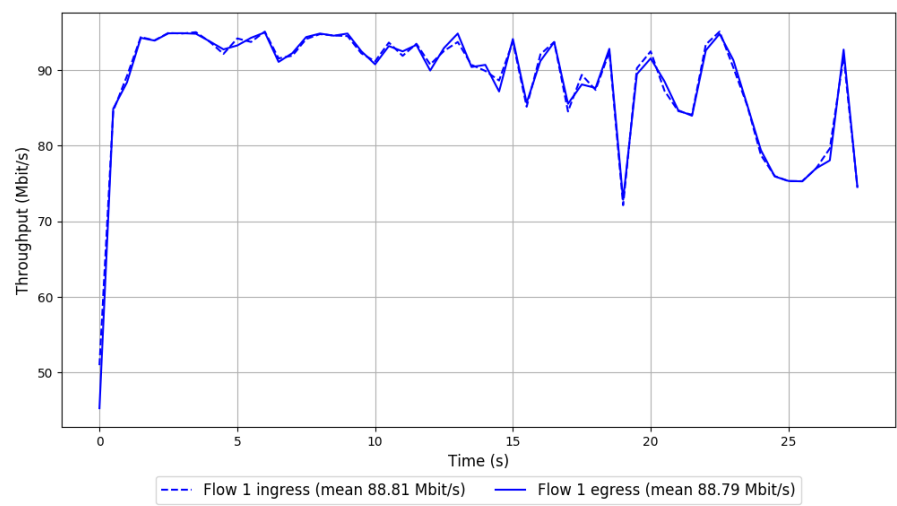


Run 6: Statistics of Copa

Start at: 2017-12-11 12:29:49
End at: 2017-12-11 12:30:19
Local clock offset: 0.002 ms
Remote clock offset: -11.736 ms

Below is generated by plot.py at 2017-12-11 16:45:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.79 Mbit/s
95th percentile per-packet one-way delay: 35.745 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 88.79 Mbit/s
95th percentile per-packet one-way delay: 35.745 ms
Loss rate: 0.12%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

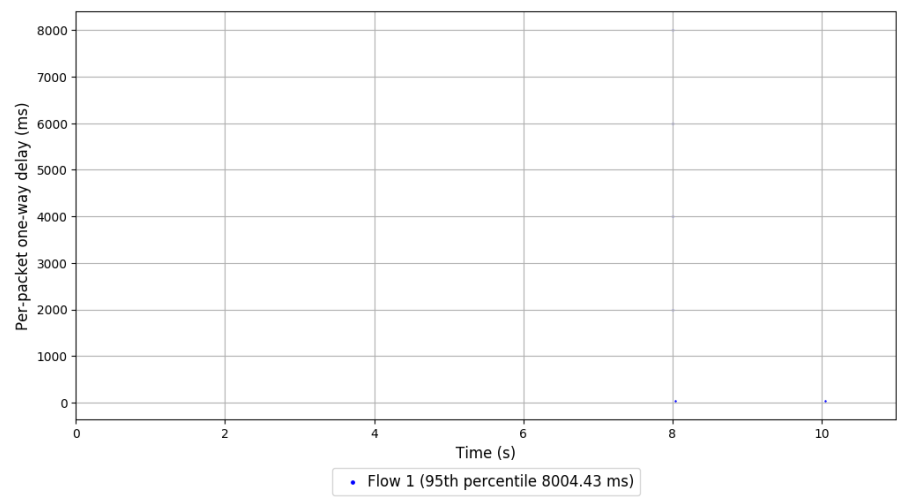
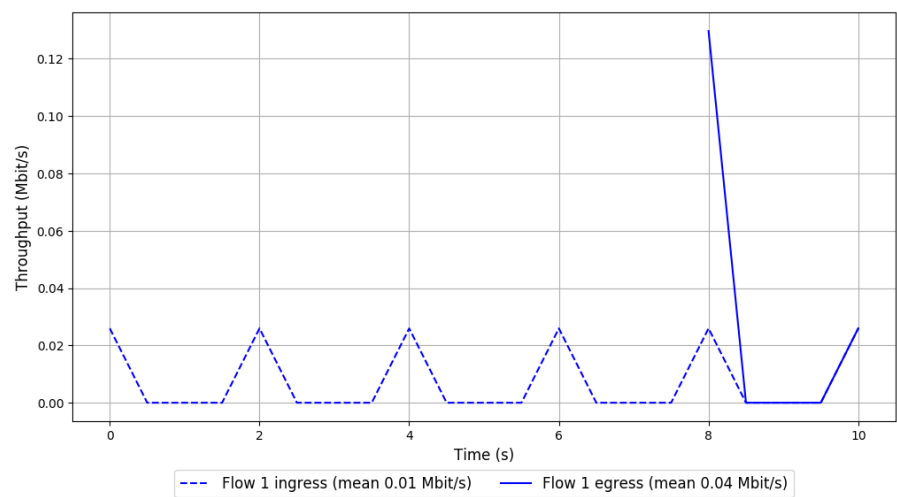
Start at: 2017-12-11 12:46:38

End at: 2017-12-11 12:47:08

Local clock offset: 0.397 ms

Remote clock offset: -12.404 ms

Run 7: Report of Copa — Data Link

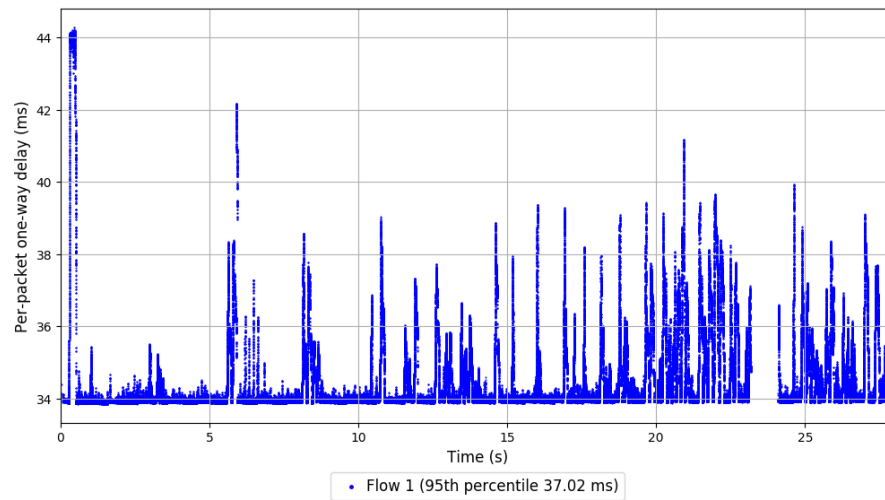
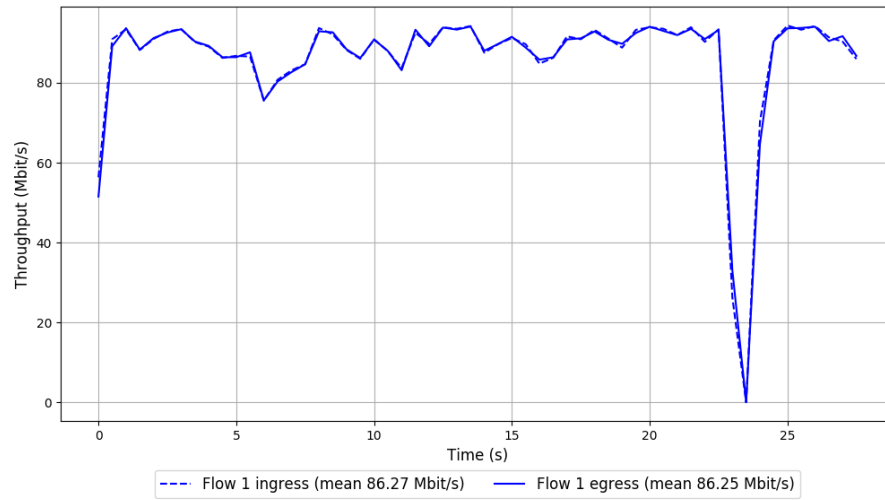


Run 8: Statistics of Copa

Start at: 2017-12-11 13:03:06
End at: 2017-12-11 13:03:36
Local clock offset: 0.274 ms
Remote clock offset: -13.862 ms

Below is generated by plot.py at 2017-12-11 16:45:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.25 Mbit/s
95th percentile per-packet one-way delay: 37.023 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 86.25 Mbit/s
95th percentile per-packet one-way delay: 37.023 ms
Loss rate: 0.11%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

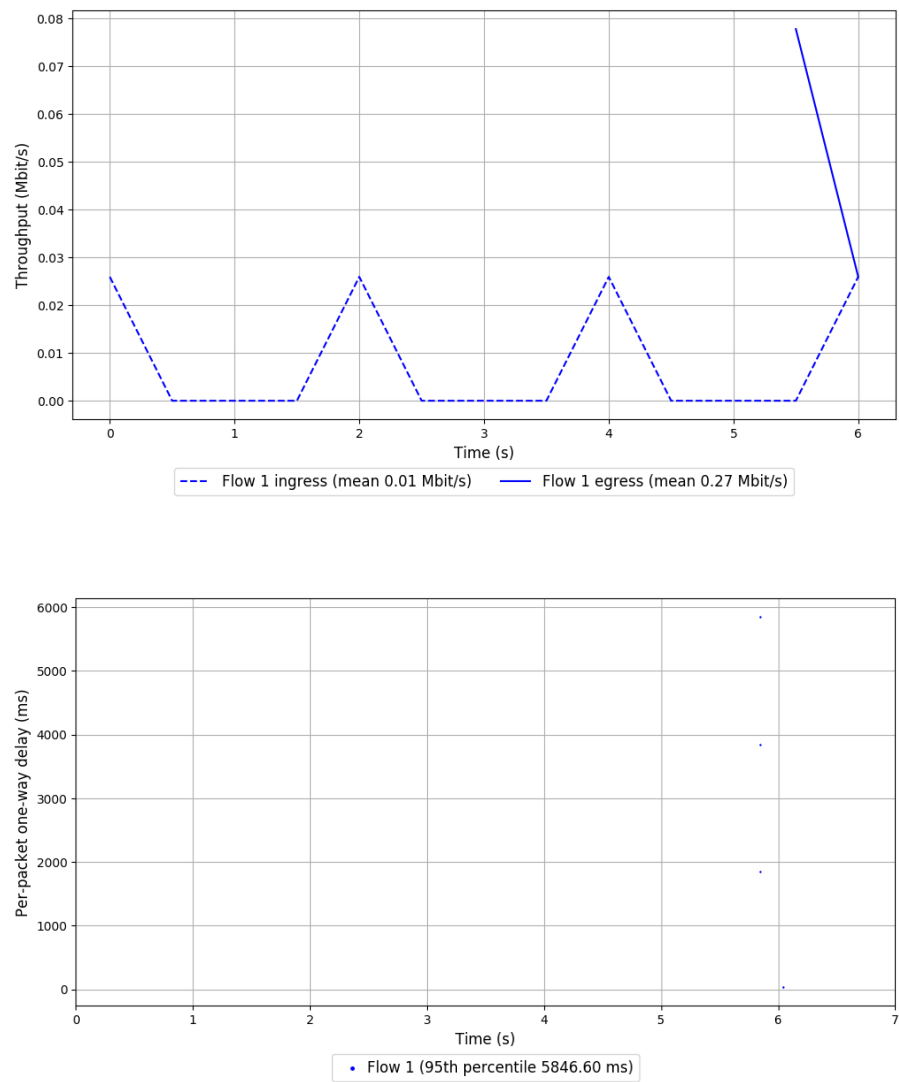
Start at: 2017-12-11 13:20:05

End at: 2017-12-11 13:20:35

Local clock offset: -0.263 ms

Remote clock offset: -13.573 ms

Run 9: Report of Copa — Data Link

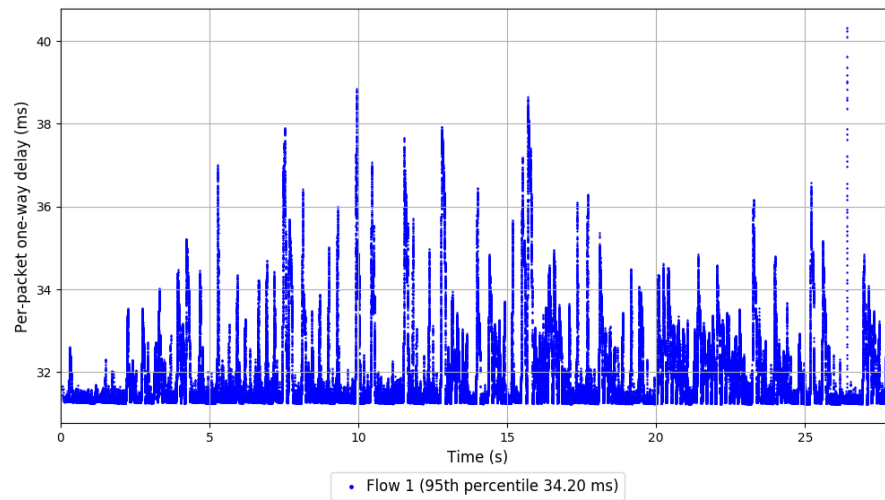
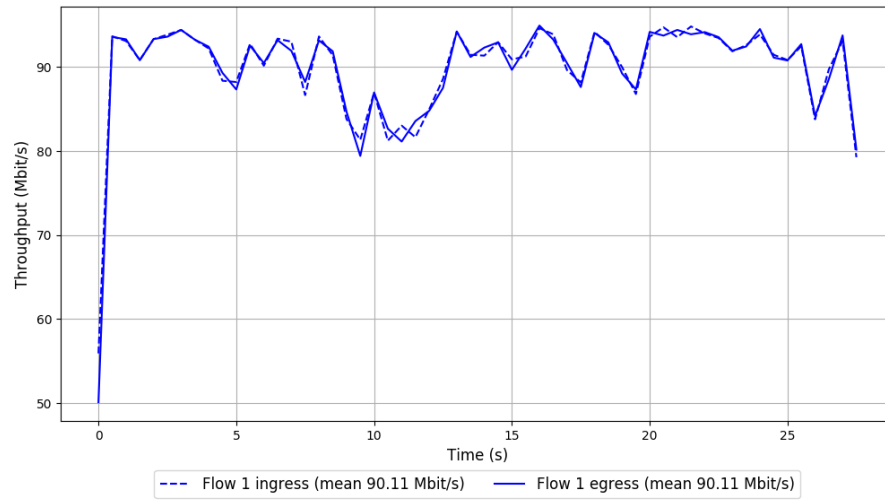


Run 10: Statistics of Copa

Start at: 2017-12-11 13:37:08
End at: 2017-12-11 13:37:39
Local clock offset: -1.945 ms
Remote clock offset: -13.108 ms

Below is generated by plot.py at 2017-12-11 16:46:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.11 Mbit/s
95th percentile per-packet one-way delay: 34.203 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 90.11 Mbit/s
95th percentile per-packet one-way delay: 34.203 ms
Loss rate: 0.09%

Run 10: Report of Copa — Data Link

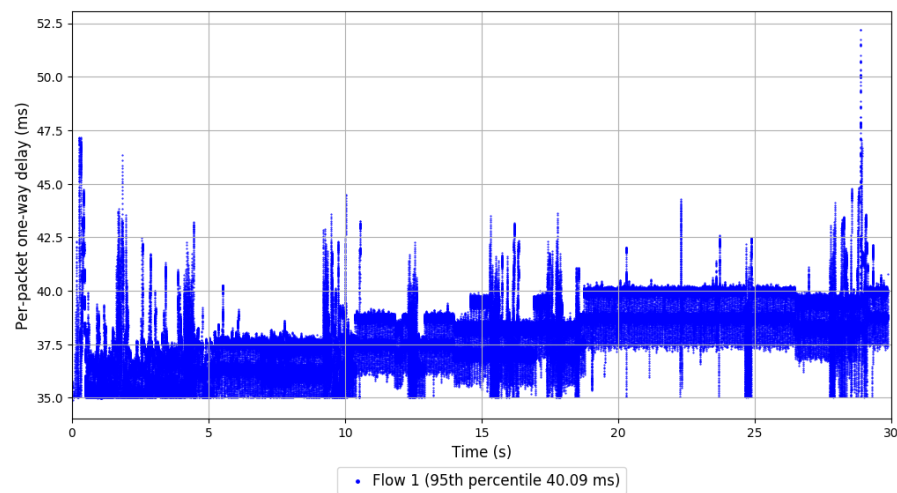
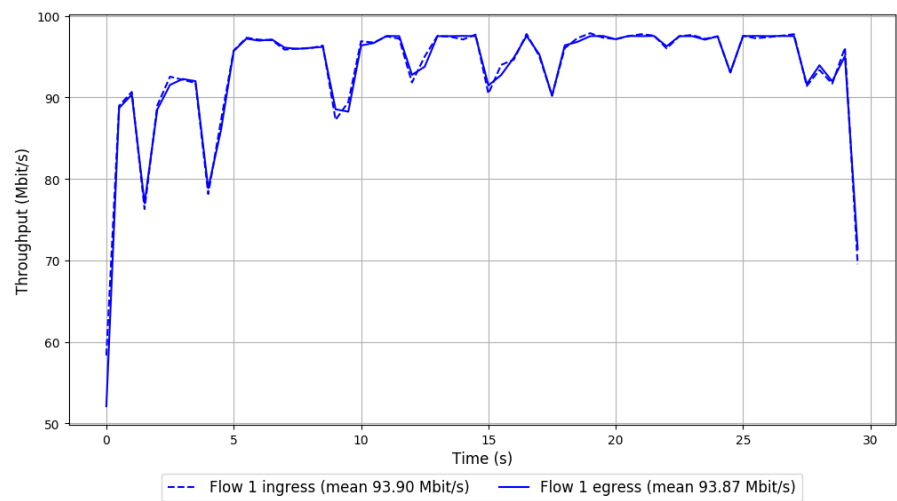


```
Run 1: Statistics of Indigo

Start at: 2017-12-11 10:58:15
End at: 2017-12-11 10:58:45
Local clock offset: 0.083 ms
Remote clock offset: -12.273 ms

# Below is generated by plot.py at 2017-12-11 16:46:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.87 Mbit/s
95th percentile per-packet one-way delay: 40.085 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 93.87 Mbit/s
95th percentile per-packet one-way delay: 40.085 ms
Loss rate: 0.12%
```


Run 1: Report of Indigo — Data Link

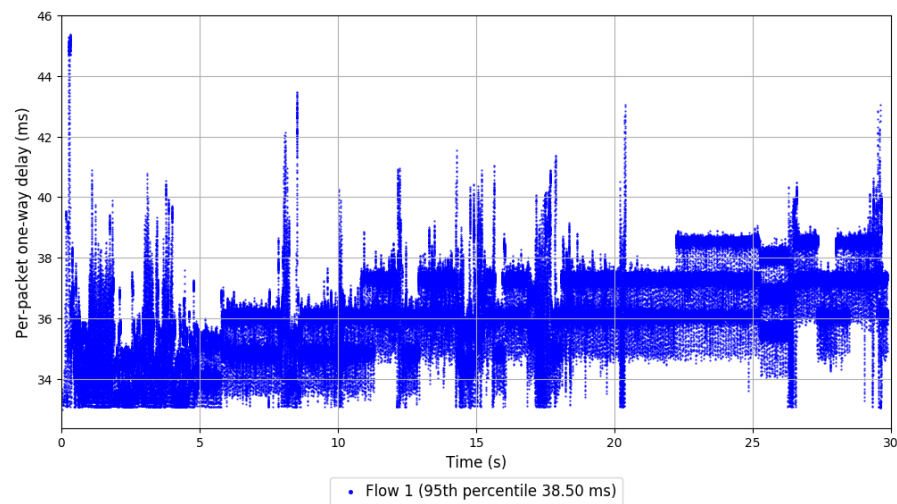
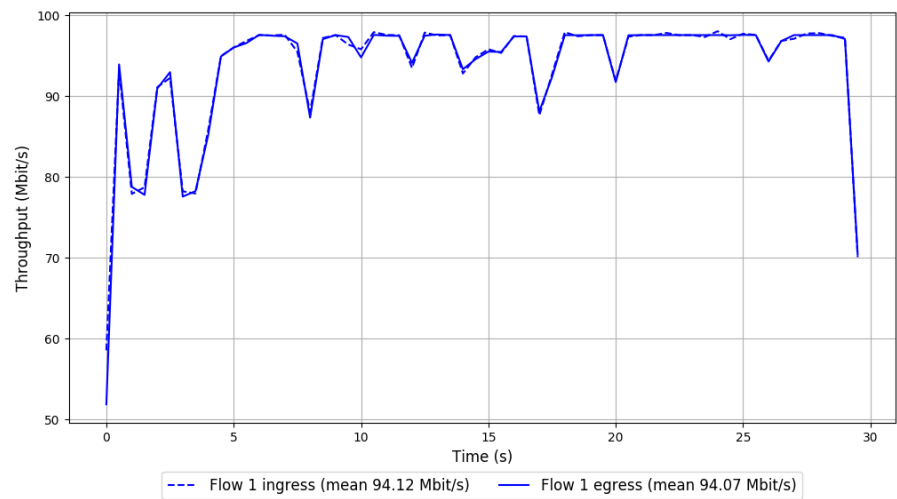


Run 2: Statistics of Indigo

Start at: 2017-12-11 11:14:57
End at: 2017-12-11 11:15:27
Local clock offset: -2.465 ms
Remote clock offset: -11.853 ms

Below is generated by plot.py at 2017-12-11 16:46:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.07 Mbit/s
95th percentile per-packet one-way delay: 38.499 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 94.07 Mbit/s
95th percentile per-packet one-way delay: 38.499 ms
Loss rate: 0.12%

Run 2: Report of Indigo — Data Link

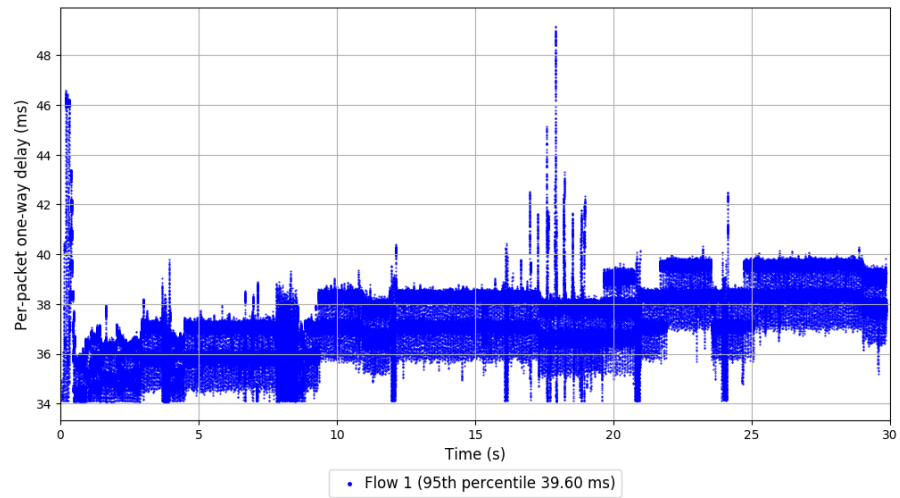
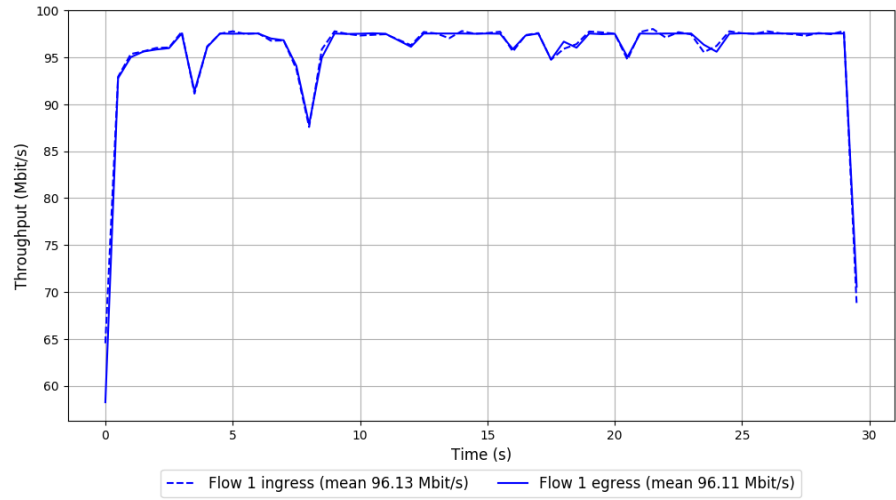


Run 3: Statistics of Indigo

Start at: 2017-12-11 11:32:17
End at: 2017-12-11 11:32:47
Local clock offset: 0.527 ms
Remote clock offset: -10.289 ms

Below is generated by plot.py at 2017-12-11 16:46:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.11 Mbit/s
95th percentile per-packet one-way delay: 39.603 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 96.11 Mbit/s
95th percentile per-packet one-way delay: 39.603 ms
Loss rate: 0.10%

Run 3: Report of Indigo — Data Link

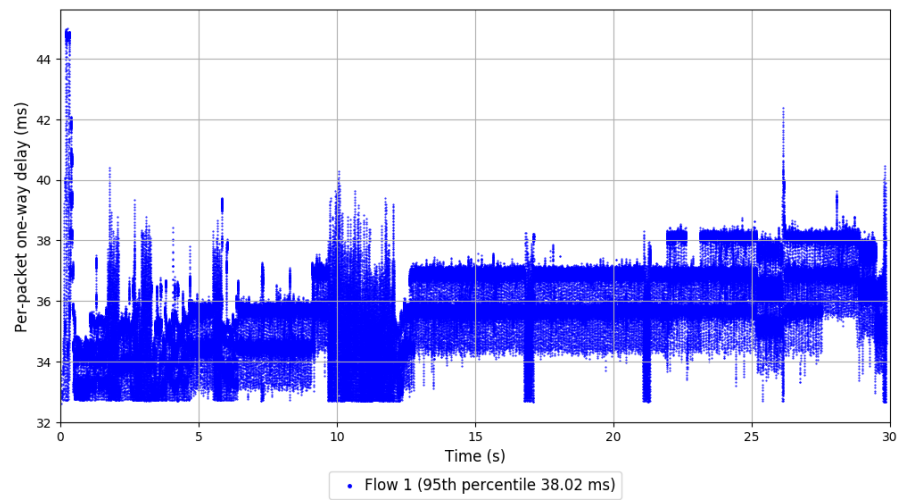
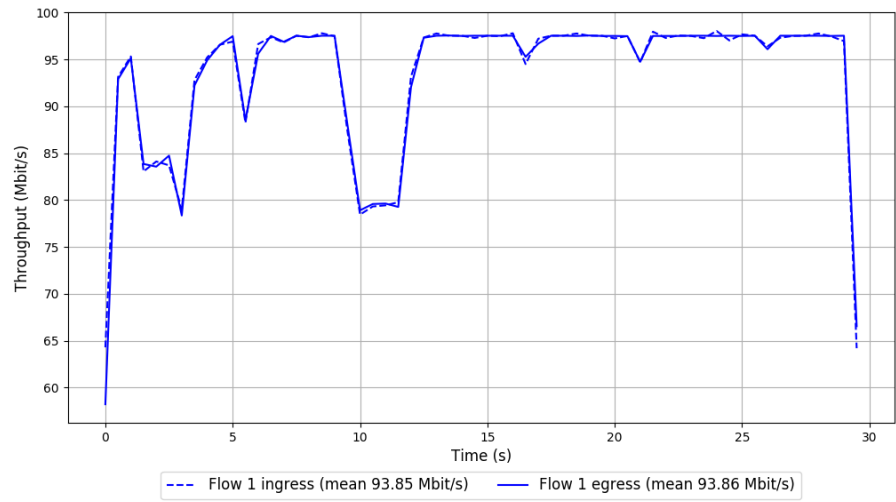


Run 4: Statistics of Indigo

Start at: 2017-12-11 11:49:01
End at: 2017-12-11 11:49:31
Local clock offset: -0.957 ms
Remote clock offset: -11.388 ms

Below is generated by plot.py at 2017-12-11 16:46:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.86 Mbit/s
95th percentile per-packet one-way delay: 38.025 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 93.86 Mbit/s
95th percentile per-packet one-way delay: 38.025 ms
Loss rate: 0.08%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-12-11 12:05:55

End at: 2017-12-11 12:06:25

Local clock offset: 0.97 ms

Remote clock offset: -12.495 ms

Below is generated by plot.py at 2017-12-11 16:46:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.13 Mbit/s

95th percentile per-packet one-way delay: 38.688 ms

Loss rate: 0.11%

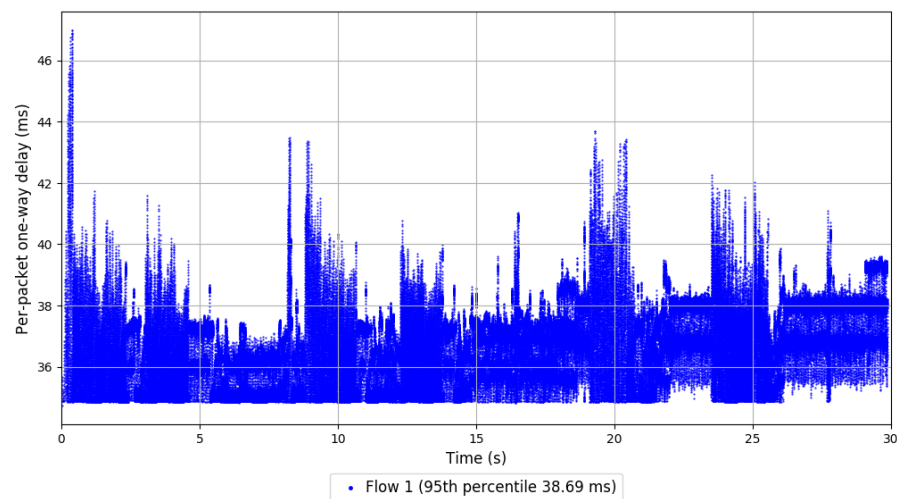
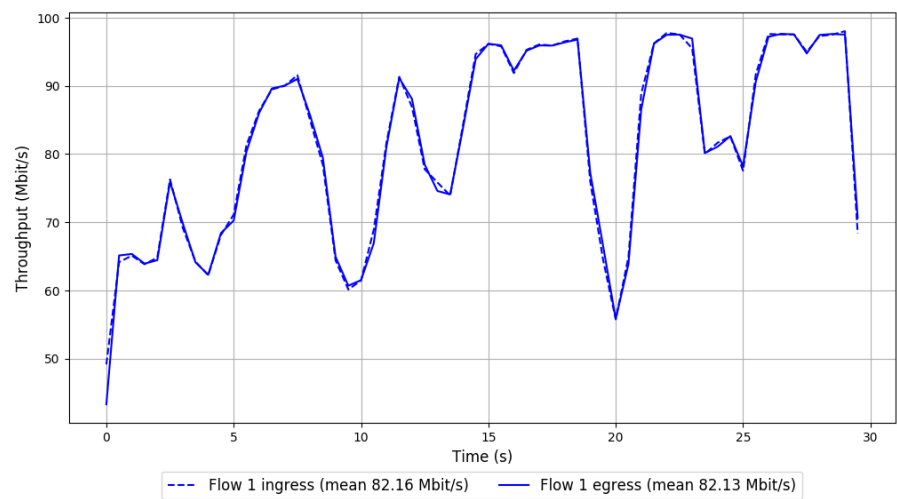
-- Flow 1:

Average throughput: 82.13 Mbit/s

95th percentile per-packet one-way delay: 38.688 ms

Loss rate: 0.11%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-12-11 12:22:51

End at: 2017-12-11 12:23:21

Local clock offset: -2.047 ms

Remote clock offset: -11.102 ms

Below is generated by plot.py at 2017-12-11 16:46:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.91 Mbit/s

95th percentile per-packet one-way delay: 36.686 ms

Loss rate: 0.10%

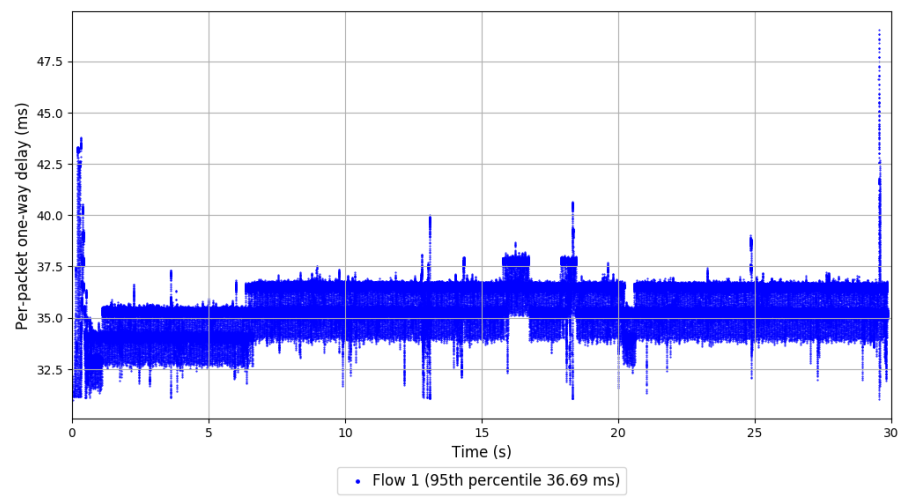
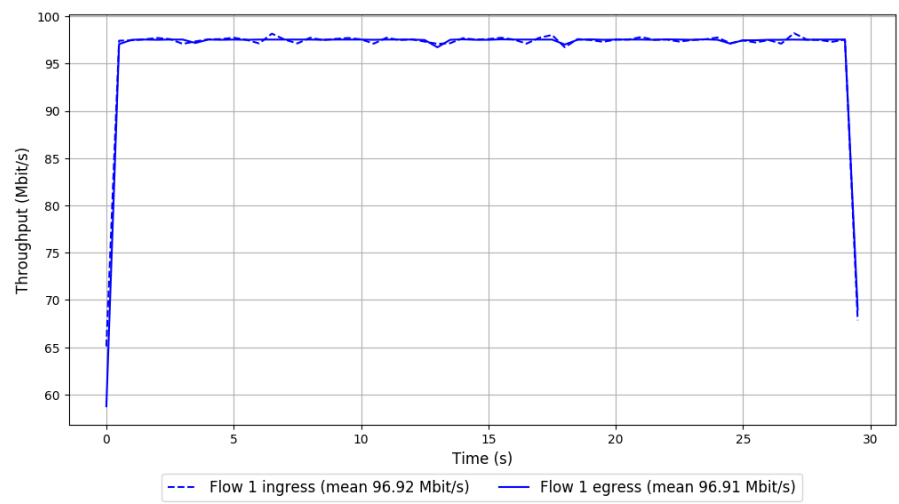
-- Flow 1:

Average throughput: 96.91 Mbit/s

95th percentile per-packet one-way delay: 36.686 ms

Loss rate: 0.10%

Run 6: Report of Indigo — Data Link

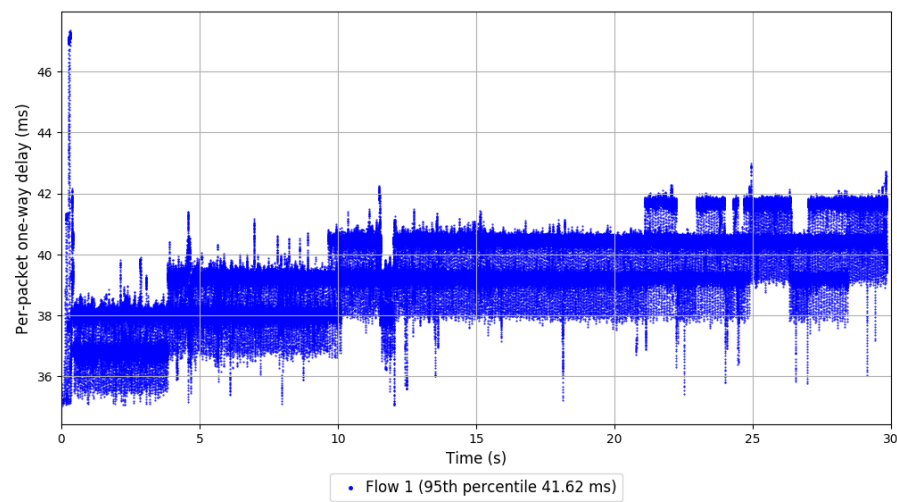
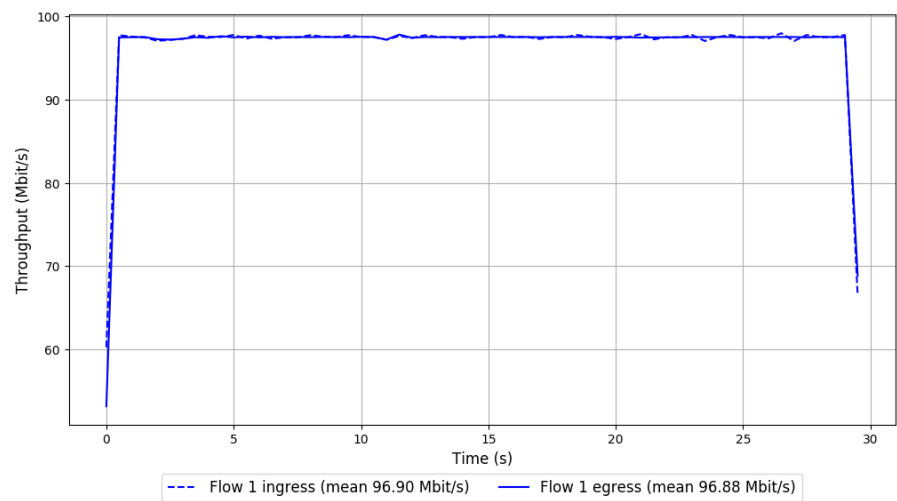


Run 7: Statistics of Indigo

Start at: 2017-12-11 12:39:28
End at: 2017-12-11 12:39:58
Local clock offset: -2.794 ms
Remote clock offset: -17.273 ms

Below is generated by plot.py at 2017-12-11 16:46:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.88 Mbit/s
95th percentile per-packet one-way delay: 41.624 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 96.88 Mbit/s
95th percentile per-packet one-way delay: 41.624 ms
Loss rate: 0.10%

Run 7: Report of Indigo — Data Link

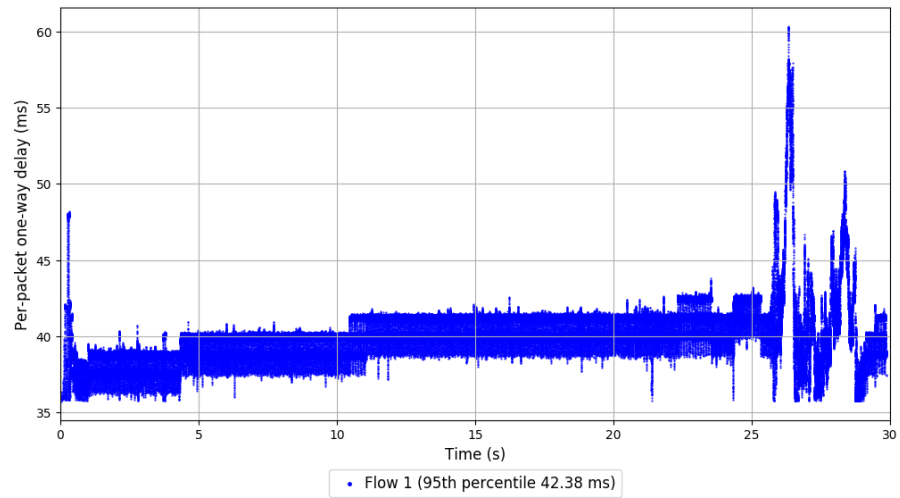
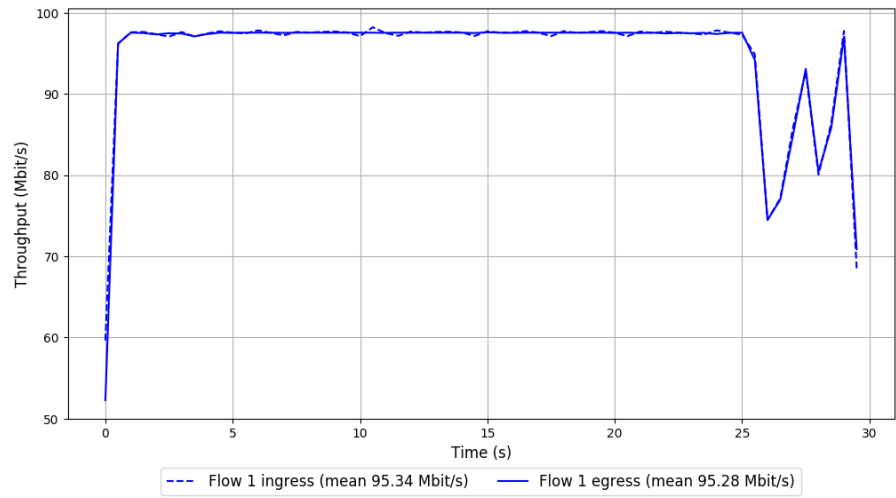


Run 8: Statistics of Indigo

Start at: 2017-12-11 12:55:57
End at: 2017-12-11 12:56:27
Local clock offset: 1.29 ms
Remote clock offset: -14.809 ms

Below is generated by plot.py at 2017-12-11 16:47:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.28 Mbit/s
95th percentile per-packet one-way delay: 42.378 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 95.28 Mbit/s
95th percentile per-packet one-way delay: 42.378 ms
Loss rate: 0.14%

Run 8: Report of Indigo — Data Link

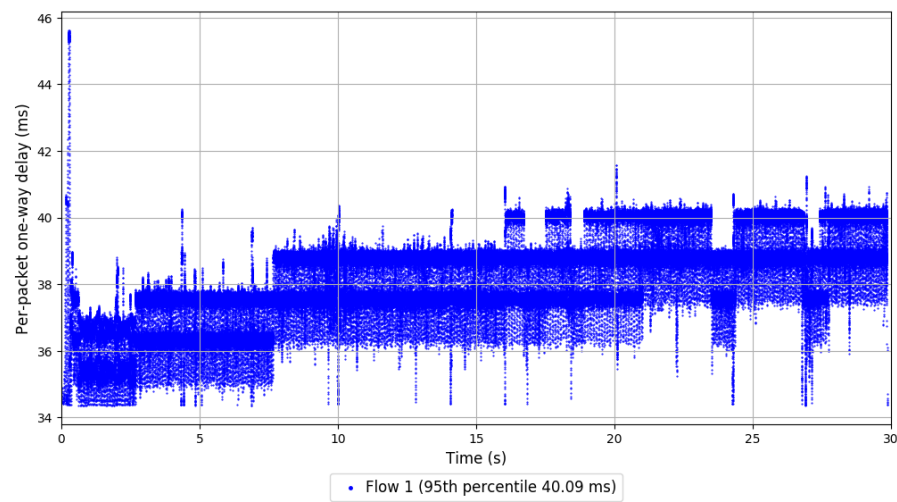
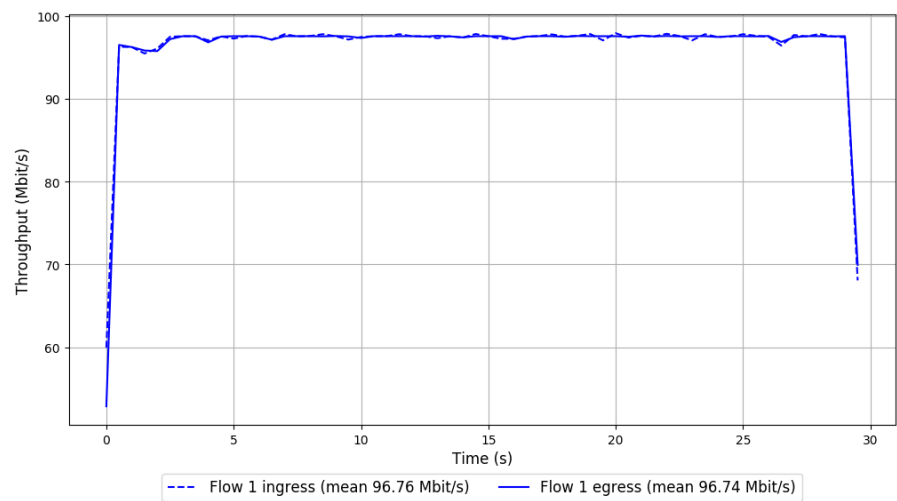


Run 9: Statistics of Indigo

Start at: 2017-12-11 13:13:01
End at: 2017-12-11 13:13:31
Local clock offset: 0.811 ms
Remote clock offset: -13.348 ms

Below is generated by plot.py at 2017-12-11 16:47:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.74 Mbit/s
95th percentile per-packet one-way delay: 40.086 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 96.74 Mbit/s
95th percentile per-packet one-way delay: 40.086 ms
Loss rate: 0.10%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-12-11 13:30:01

End at: 2017-12-11 13:30:31

Local clock offset: -0.875 ms

Remote clock offset: -13.067 ms

Below is generated by plot.py at 2017-12-11 16:47:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.86 Mbit/s

95th percentile per-packet one-way delay: 39.236 ms

Loss rate: 0.11%

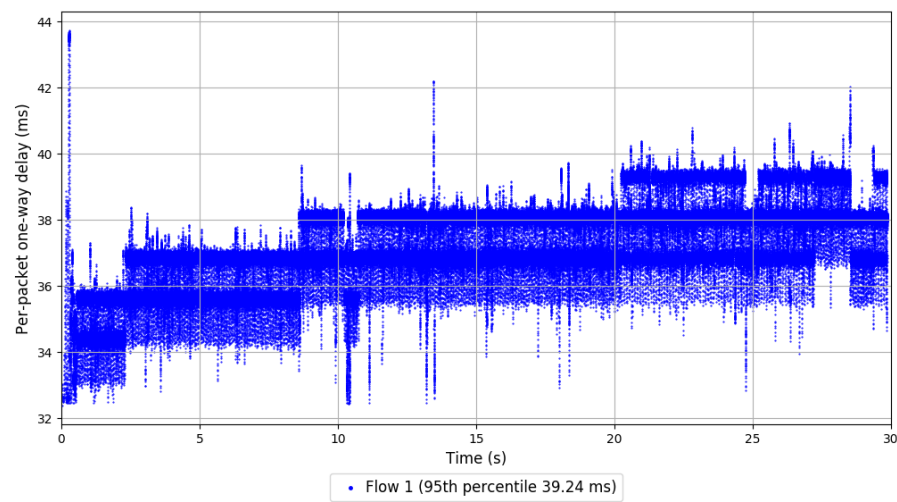
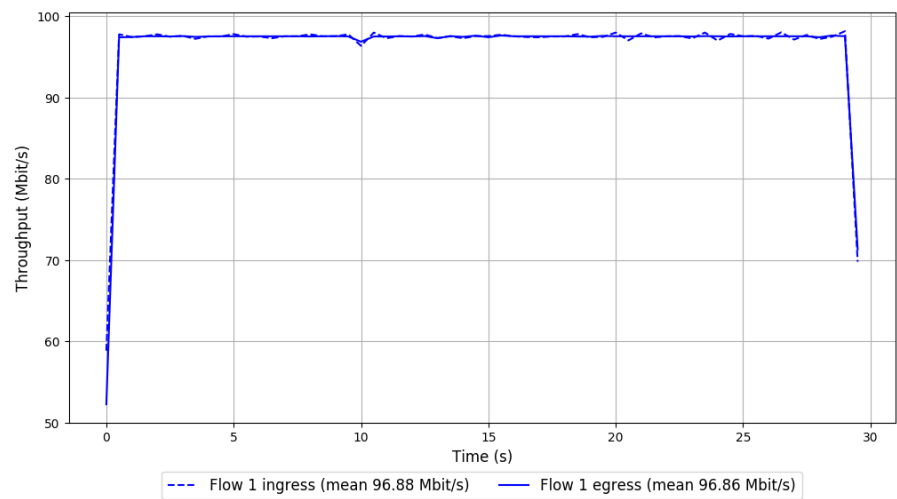
-- Flow 1:

Average throughput: 96.86 Mbit/s

95th percentile per-packet one-way delay: 39.236 ms

Loss rate: 0.11%

Run 10: Report of Indigo — Data Link

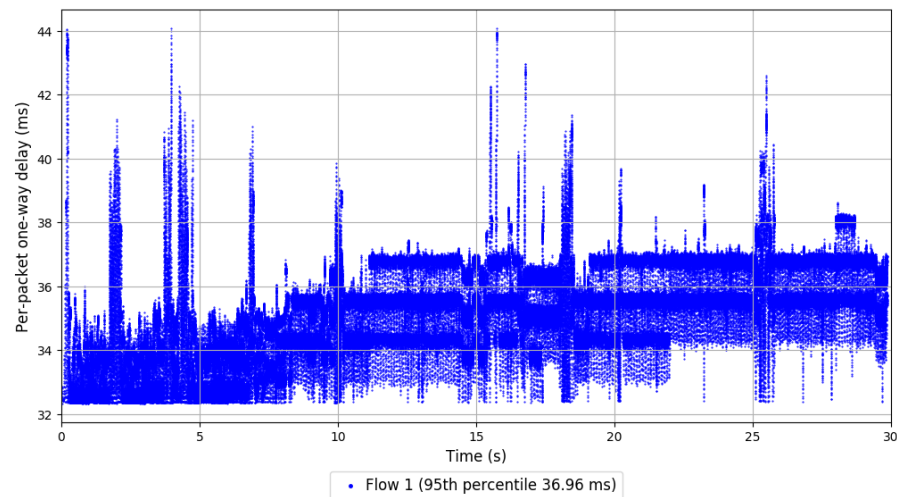
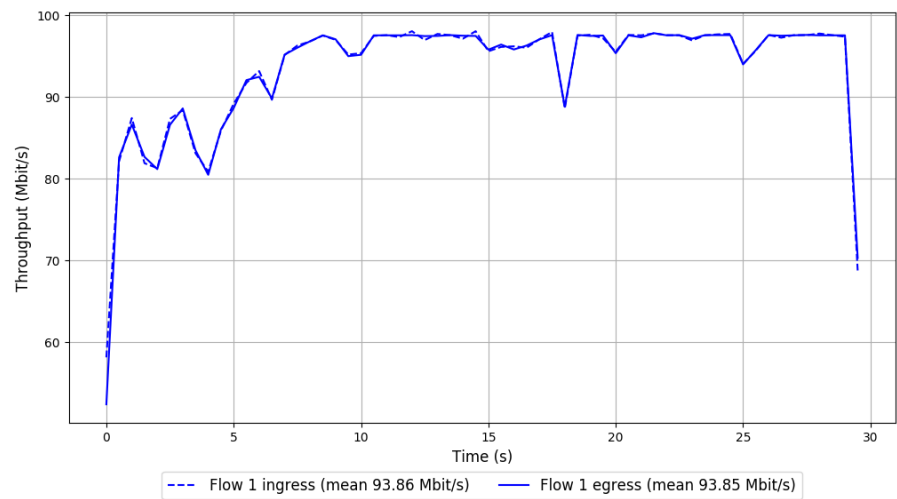


```
Run 1: Statistics of Indigo-calib

Start at: 2017-12-11 10:54:38
End at: 2017-12-11 10:55:08
Local clock offset: -1.977 ms
Remote clock offset: -11.836 ms

# Below is generated by plot.py at 2017-12-11 16:47:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.85 Mbit/s
95th percentile per-packet one-way delay: 36.960 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 93.85 Mbit/s
95th percentile per-packet one-way delay: 36.960 ms
Loss rate: 0.10%
```

Run 1: Report of Indigo-calib — Data Link

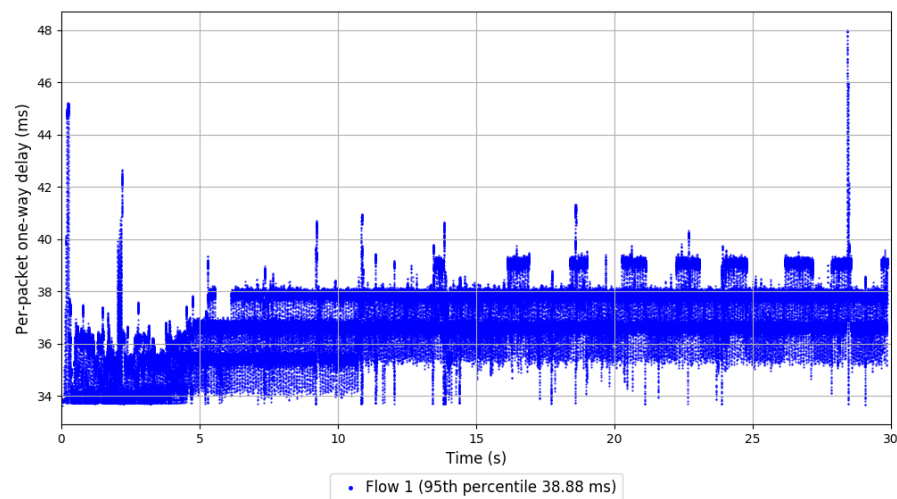
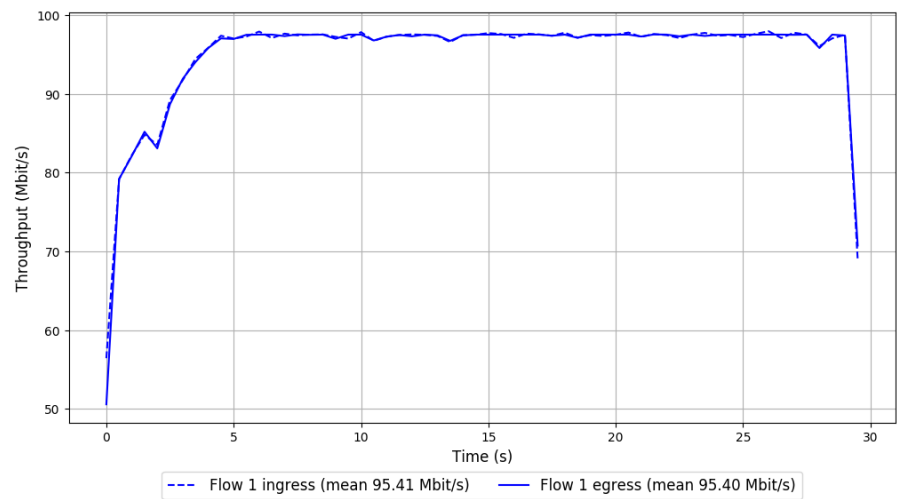


```
Run 2: Statistics of Indigo-calib

Start at: 2017-12-11 11:11:14
End at: 2017-12-11 11:11:44
Local clock offset: -2.313 ms
Remote clock offset: -12.142 ms

# Below is generated by plot.py at 2017-12-11 16:47:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.40 Mbit/s
95th percentile per-packet one-way delay: 38.884 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 95.40 Mbit/s
95th percentile per-packet one-way delay: 38.884 ms
Loss rate: 0.10%
```

Run 2: Report of Indigo-calib — Data Link

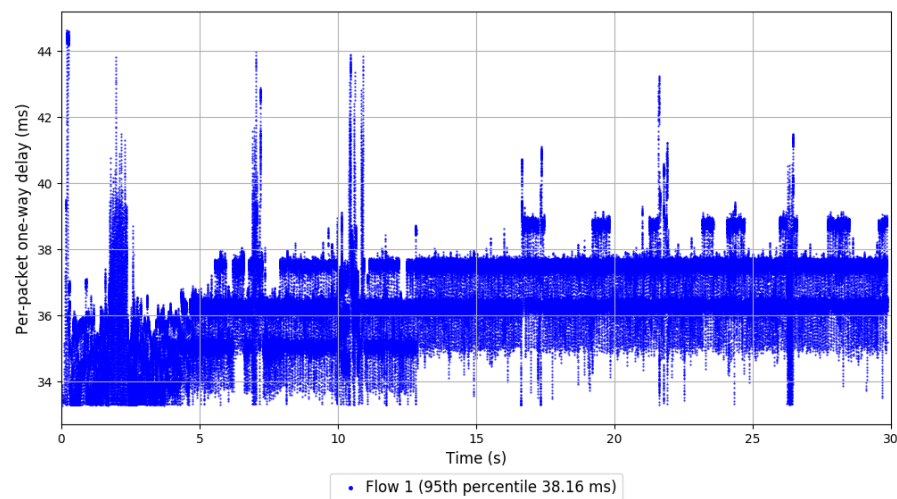
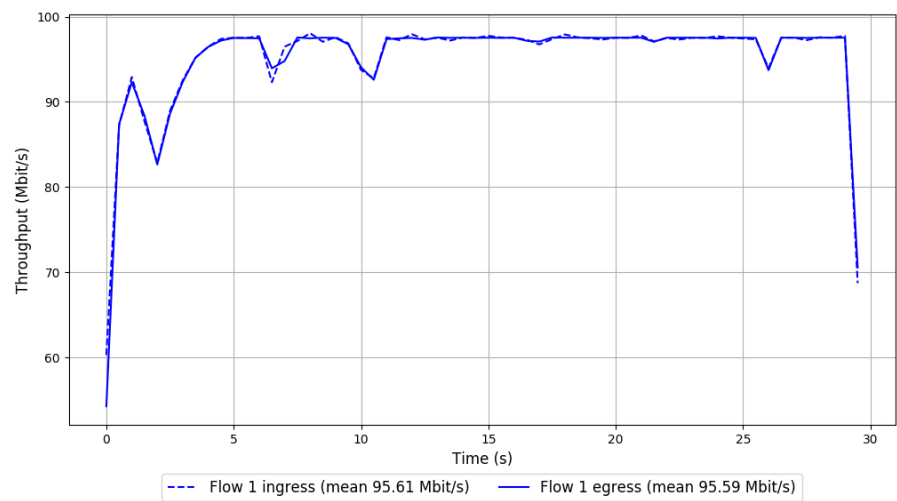


Run 3: Statistics of Indigo-calib

Start at: 2017-12-11 11:28:21
End at: 2017-12-11 11:28:51
Local clock offset: 0.541 ms
Remote clock offset: -9.608 ms

Below is generated by plot.py at 2017-12-11 16:47:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.59 Mbit/s
95th percentile per-packet one-way delay: 38.159 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 95.59 Mbit/s
95th percentile per-packet one-way delay: 38.159 ms
Loss rate: 0.10%

Run 3: Report of Indigo-calib — Data Link

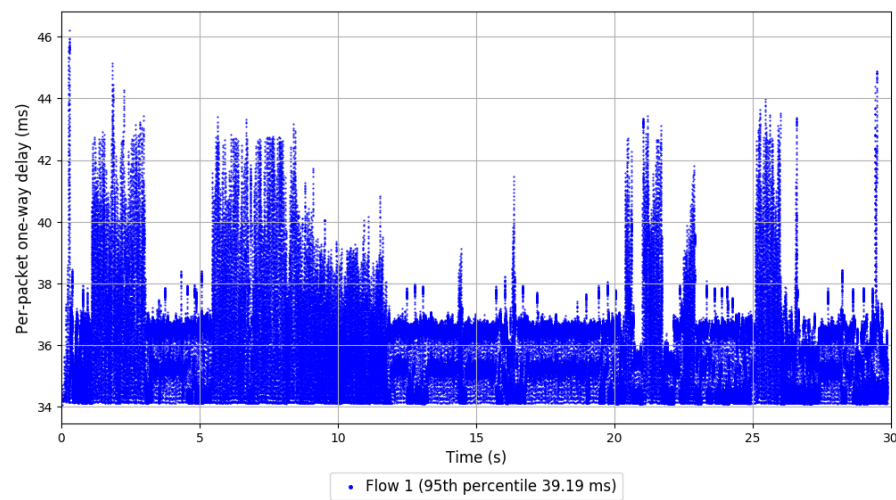
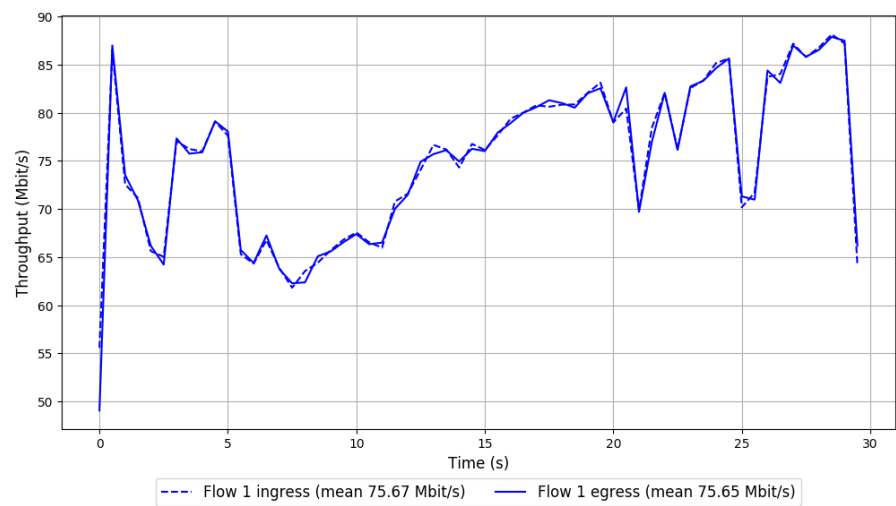


Run 4: Statistics of Indigo-calib

Start at: 2017-12-11 11:45:12
End at: 2017-12-11 11:45:42
Local clock offset: 1.316 ms
Remote clock offset: -10.236 ms

Below is generated by plot.py at 2017-12-11 16:47:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 75.65 Mbit/s
95th percentile per-packet one-way delay: 39.189 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 75.65 Mbit/s
95th percentile per-packet one-way delay: 39.189 ms
Loss rate: 0.10%

Run 4: Report of Indigo-calib — Data Link

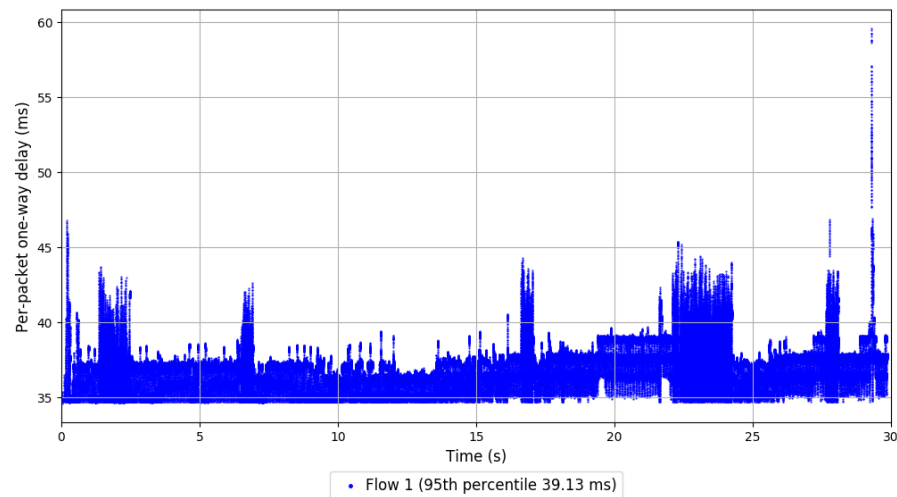
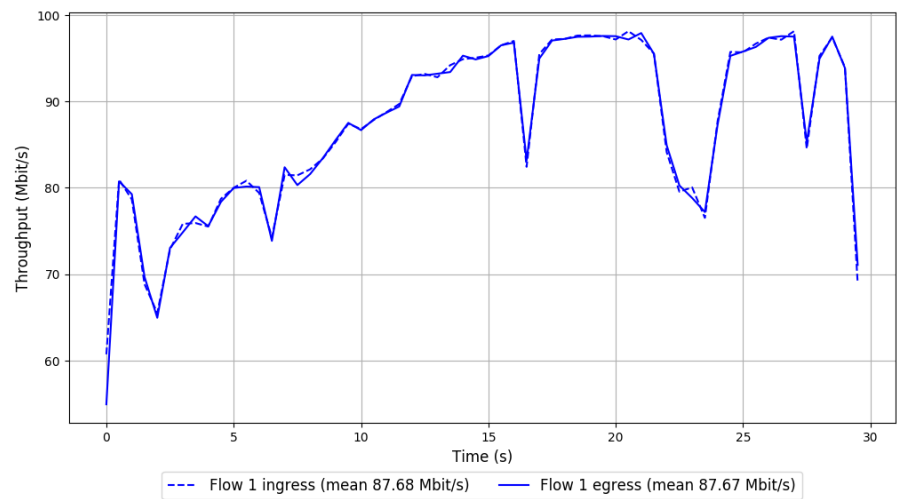


Run 5: Statistics of Indigo-calib

Start at: 2017-12-11 12:02:06
End at: 2017-12-11 12:02:36
Local clock offset: 1.645 ms
Remote clock offset: -11.948 ms

Below is generated by plot.py at 2017-12-11 16:47:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.67 Mbit/s
95th percentile per-packet one-way delay: 39.133 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 87.67 Mbit/s
95th percentile per-packet one-way delay: 39.133 ms
Loss rate: 0.10%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-12-11 12:19:05

End at: 2017-12-11 12:19:35

Local clock offset: 0.921 ms

Remote clock offset: -12.21 ms

Below is generated by plot.py at 2017-12-11 16:48:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.12 Mbit/s

95th percentile per-packet one-way delay: 39.783 ms

Loss rate: 0.10%

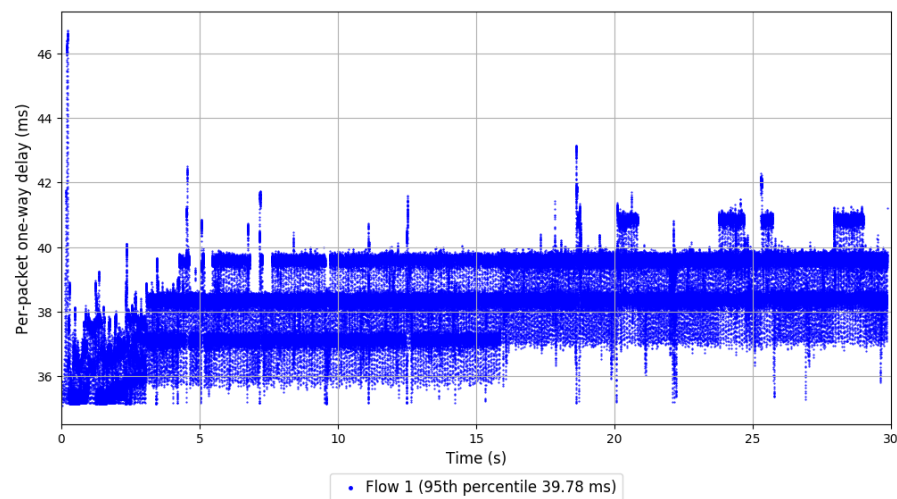
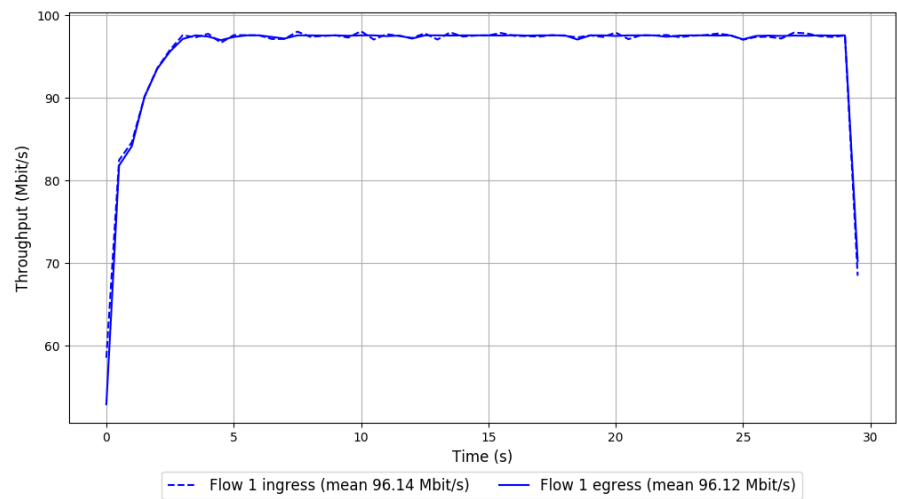
-- Flow 1:

Average throughput: 96.12 Mbit/s

95th percentile per-packet one-way delay: 39.783 ms

Loss rate: 0.10%

Run 6: Report of Indigo-calib — Data Link

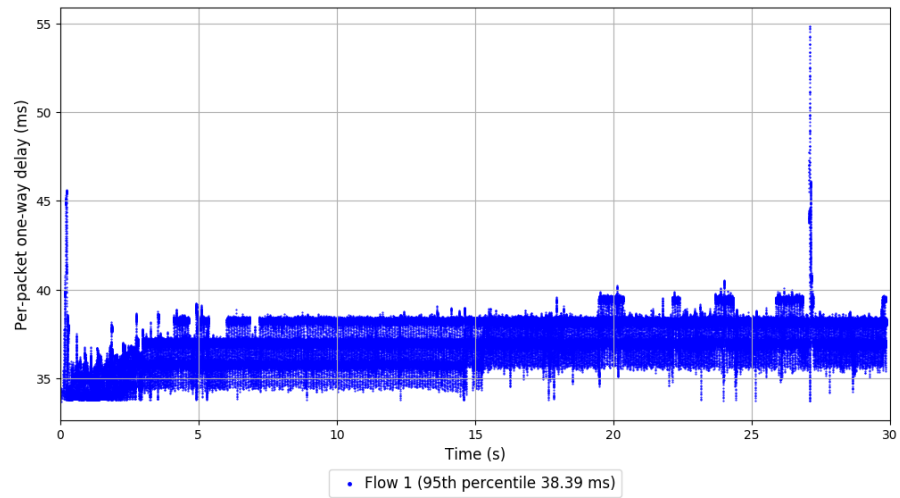
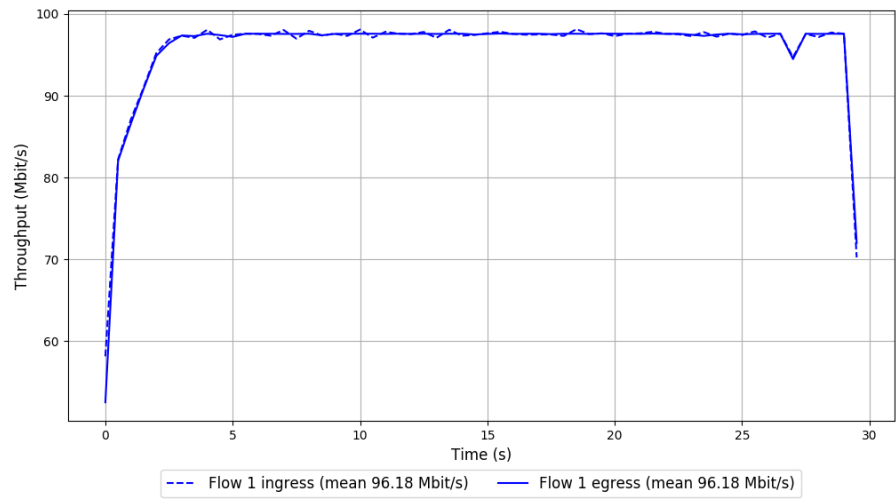


Run 7: Statistics of Indigo-calib

Start at: 2017-12-11 12:35:47
End at: 2017-12-11 12:36:17
Local clock offset: 0.82 ms
Remote clock offset: -11.983 ms

Below is generated by plot.py at 2017-12-11 16:48:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.18 Mbit/s
95th percentile per-packet one-way delay: 38.394 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.18 Mbit/s
95th percentile per-packet one-way delay: 38.394 ms
Loss rate: 0.09%

Run 7: Report of Indigo-calib — Data Link

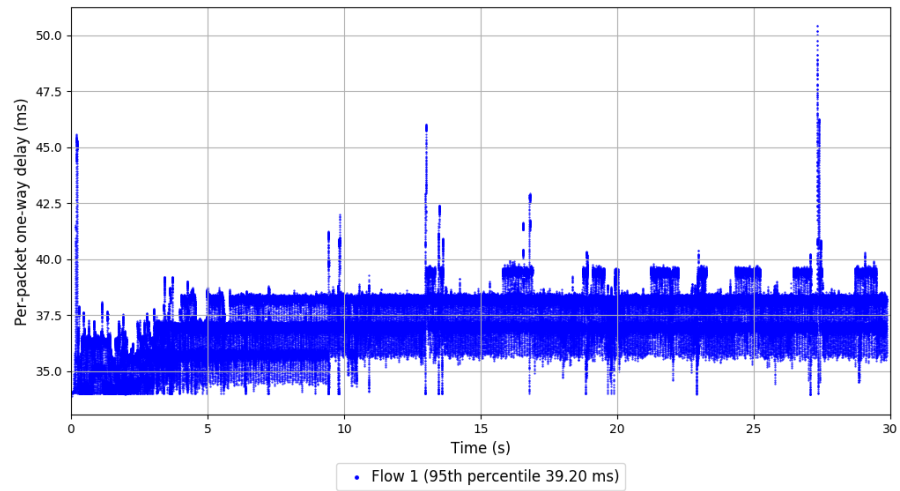
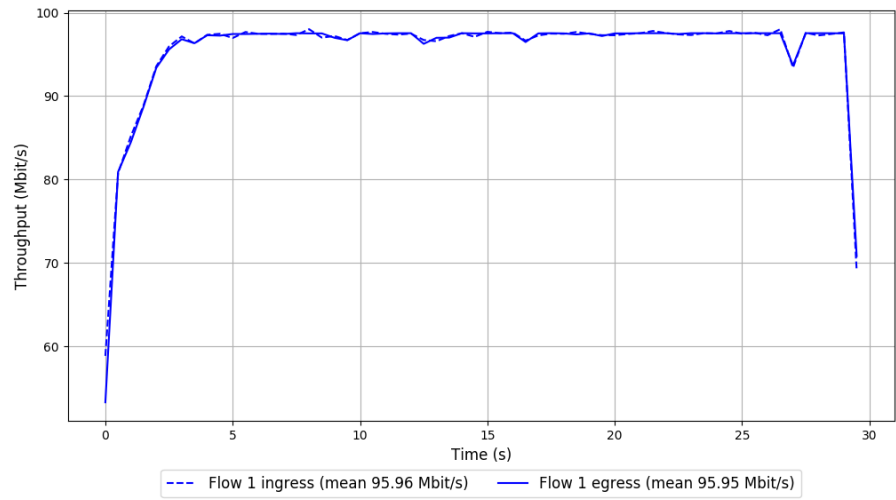


Run 8: Statistics of Indigo-calib

Start at: 2017-12-11 12:52:25
End at: 2017-12-11 12:52:55
Local clock offset: -0.105 ms
Remote clock offset: -14.206 ms

Below is generated by plot.py at 2017-12-11 16:48:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.95 Mbit/s
95th percentile per-packet one-way delay: 39.202 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 95.95 Mbit/s
95th percentile per-packet one-way delay: 39.202 ms
Loss rate: 0.10%

Run 8: Report of Indigo-calib — Data Link

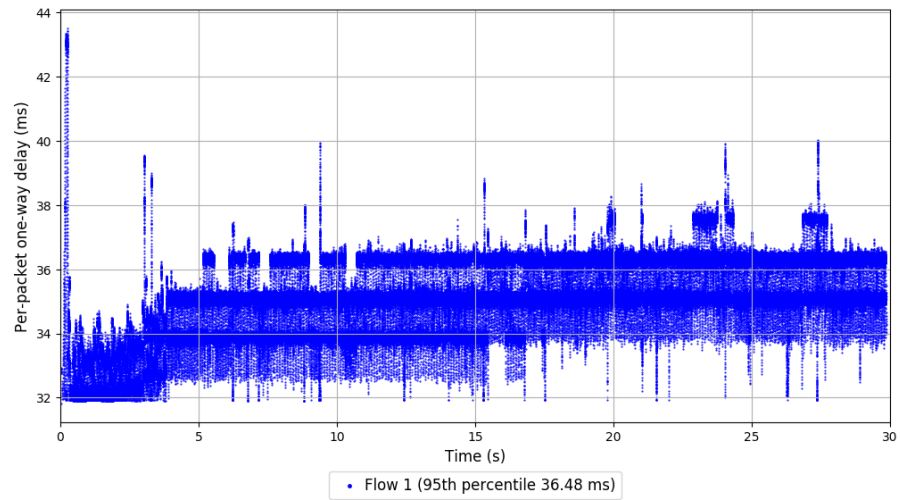
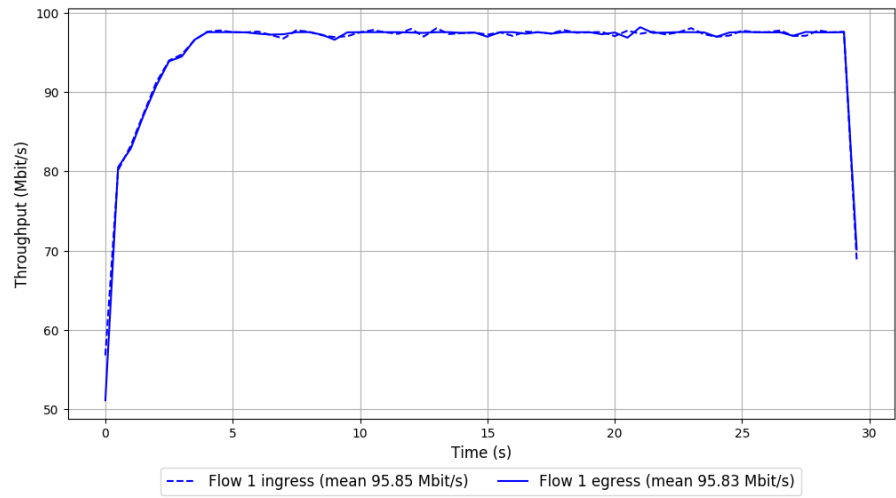


Run 9: Statistics of Indigo-calib

Start at: 2017-12-11 13:09:06
End at: 2017-12-11 13:09:36
Local clock offset: -1.383 ms
Remote clock offset: -13.332 ms

Below is generated by plot.py at 2017-12-11 16:48:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.83 Mbit/s
95th percentile per-packet one-way delay: 36.483 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 95.83 Mbit/s
95th percentile per-packet one-way delay: 36.483 ms
Loss rate: 0.10%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-12-11 13:26:00

End at: 2017-12-11 13:26:30

Local clock offset: -0.312 ms

Remote clock offset: -13.035 ms

Below is generated by plot.py at 2017-12-11 16:48:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.15 Mbit/s

95th percentile per-packet one-way delay: 38.235 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 92.15 Mbit/s

95th percentile per-packet one-way delay: 38.235 ms

Loss rate: 0.20%

Run 10: Report of Indigo-calib — Data Link

