

Pantheon Report

Generated at 2017-12-05 17:35:25 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

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

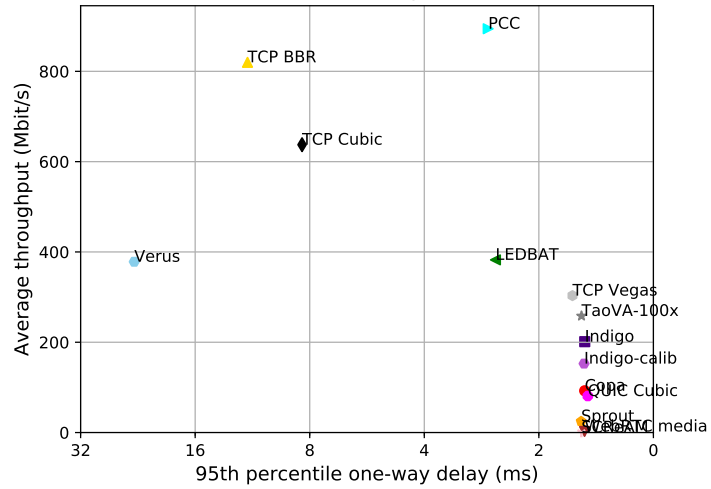
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

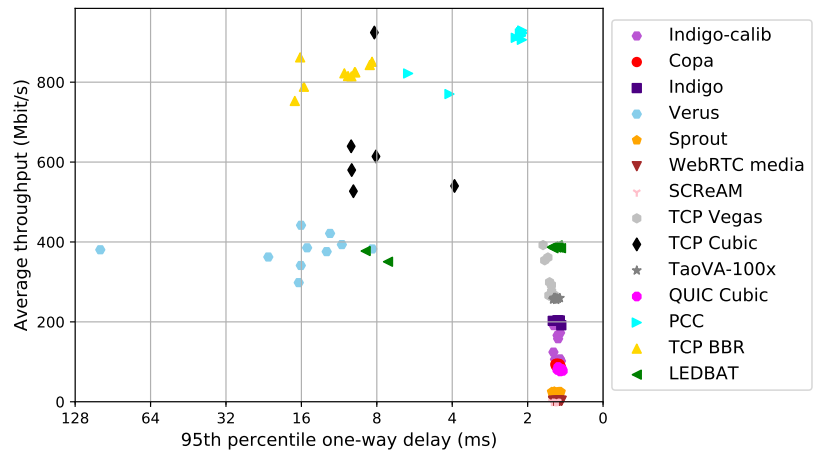
Git summary:

```
branch: indigos @ e3a57ad5ac5cfcaca0e3f983c8dd4cc3509e0262
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ b5b7c38e8391001927dc41c6cfa2627d03dde737
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fab936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quir @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



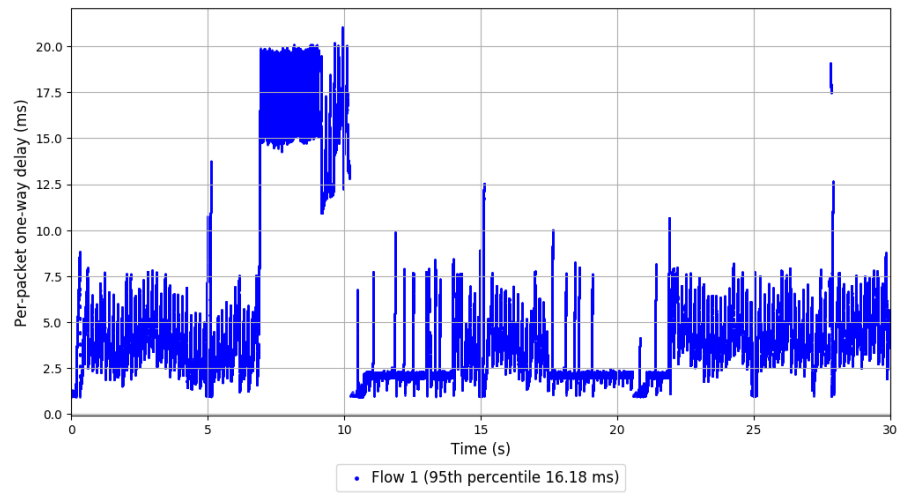
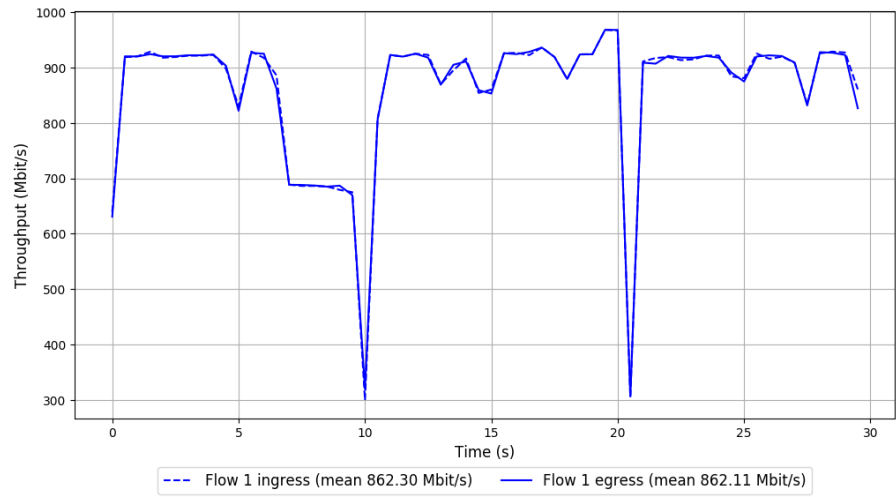
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	819.96	11.66	0.09
TCP Cubic	6	637.51	8.38	0.07
LEDBAT	10	382.44	2.60	0.08
PCC	10	894.38	2.72	0.27
QUIC Cubic	10	80.92	1.15	0.08
SCReAM	7	0.22	1.26	0.11
WebRTC media	10	2.43	1.20	0.04
Sprout	10	24.80	1.26	0.10
TaoVA-100x	10	258.24	1.26	0.07
TCP Vegas	10	303.28	1.41	0.07
Verus	10	378.26	23.13	0.60
Copa	8	92.52	1.20	0.07
Indigo	6	201.25	1.20	0.08
Indigo-calib	10	152.72	1.21	0.08

Run 1: Statistics of TCP BBR

Start at: 2017-12-05 10:01:20
End at: 2017-12-05 10:01:50
Local clock offset: 3.181 ms
Remote clock offset: -2.023 ms

Below is generated by plot.py at 2017-12-05 16:27:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 862.11 Mbit/s
95th percentile per-packet one-way delay: 16.182 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 862.11 Mbit/s
95th percentile per-packet one-way delay: 16.182 ms
Loss rate: 0.09%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-12-05 10:20:24

End at: 2017-12-05 10:20:54

Local clock offset: 2.934 ms

Remote clock offset: -2.023 ms

Below is generated by plot.py at 2017-12-05 16:27:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 753.02 Mbit/s

95th percentile per-packet one-way delay: 17.002 ms

Loss rate: 0.10%

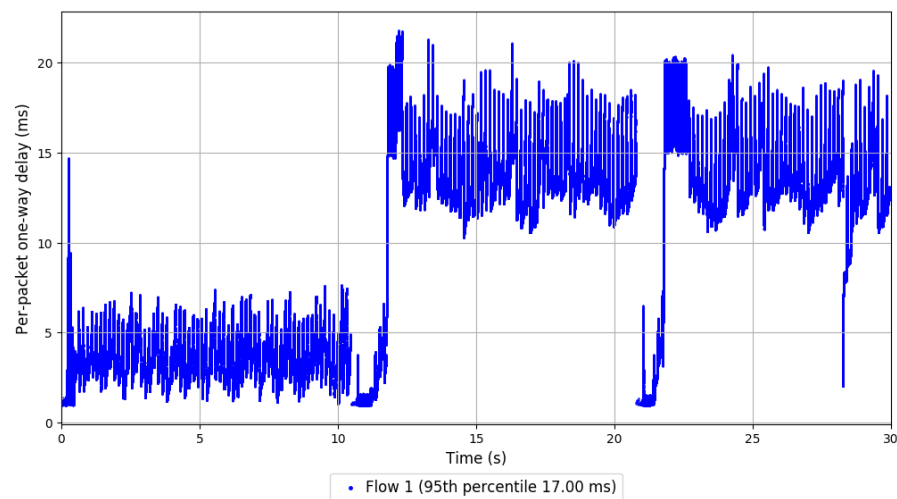
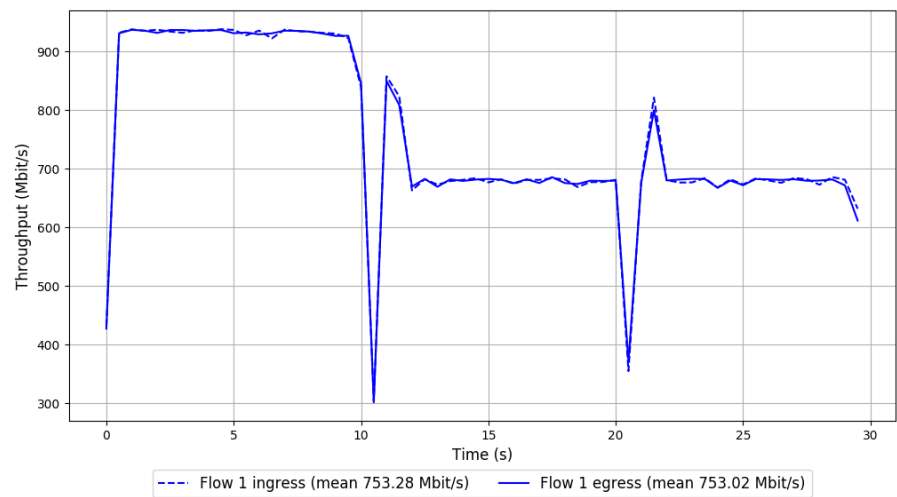
-- Flow 1:

Average throughput: 753.02 Mbit/s

95th percentile per-packet one-way delay: 17.002 ms

Loss rate: 0.10%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-12-05 10:39:27

End at: 2017-12-05 10:39:57

Local clock offset: 2.516 ms

Remote clock offset: -1.53 ms

Below is generated by plot.py at 2017-12-05 16:27:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 814.47 Mbit/s

95th percentile per-packet one-way delay: 10.105 ms

Loss rate: 0.08%

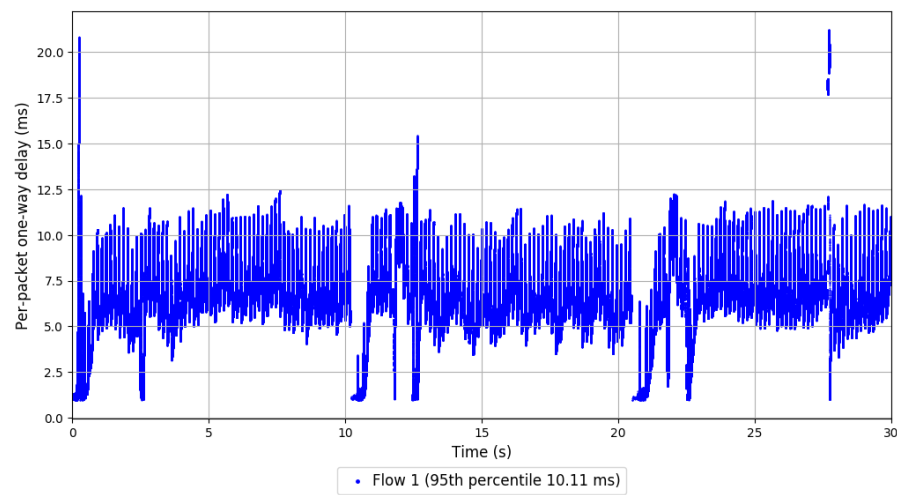
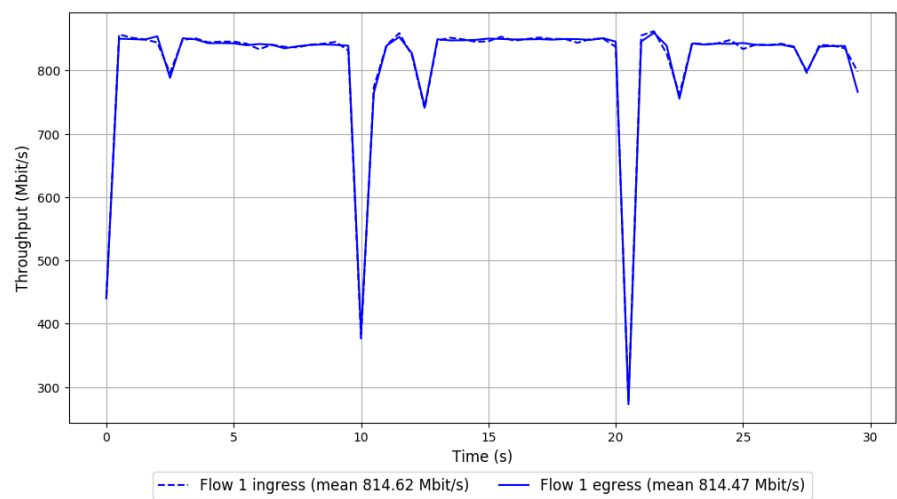
-- Flow 1:

Average throughput: 814.47 Mbit/s

95th percentile per-packet one-way delay: 10.105 ms

Loss rate: 0.08%

Run 3: Report of TCP BBR — Data Link

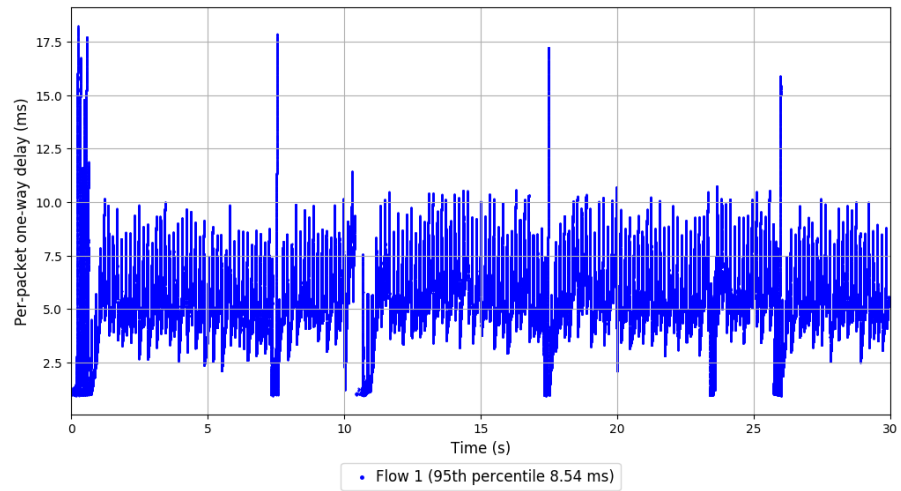
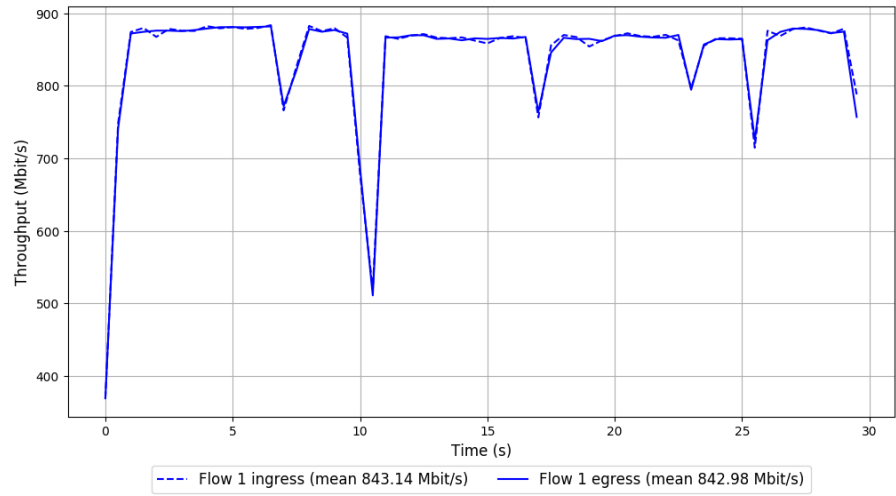


Run 4: Statistics of TCP BBR

Start at: 2017-12-05 10:58:35
End at: 2017-12-05 10:59:05
Local clock offset: 2.192 ms
Remote clock offset: -1.593 ms

Below is generated by plot.py at 2017-12-05 16:27:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 842.98 Mbit/s
95th percentile per-packet one-way delay: 8.537 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 842.98 Mbit/s
95th percentile per-packet one-way delay: 8.537 ms
Loss rate: 0.09%

Run 4: Report of TCP BBR — Data Link

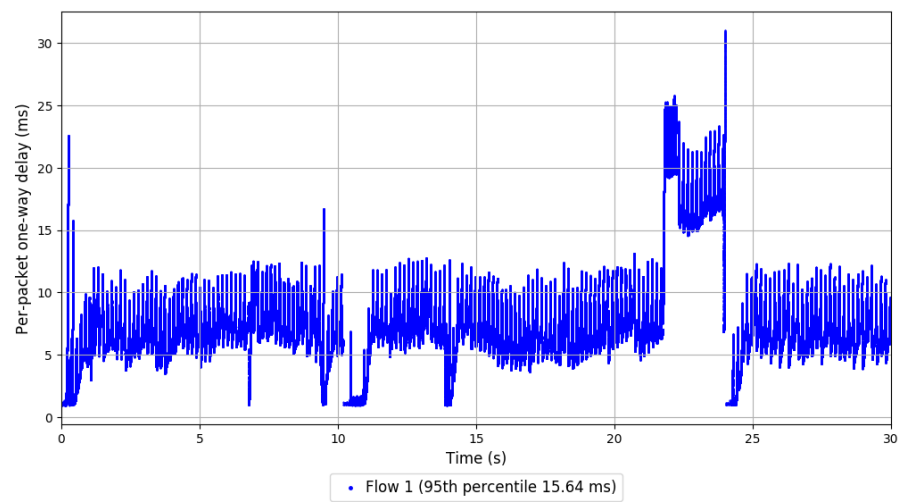
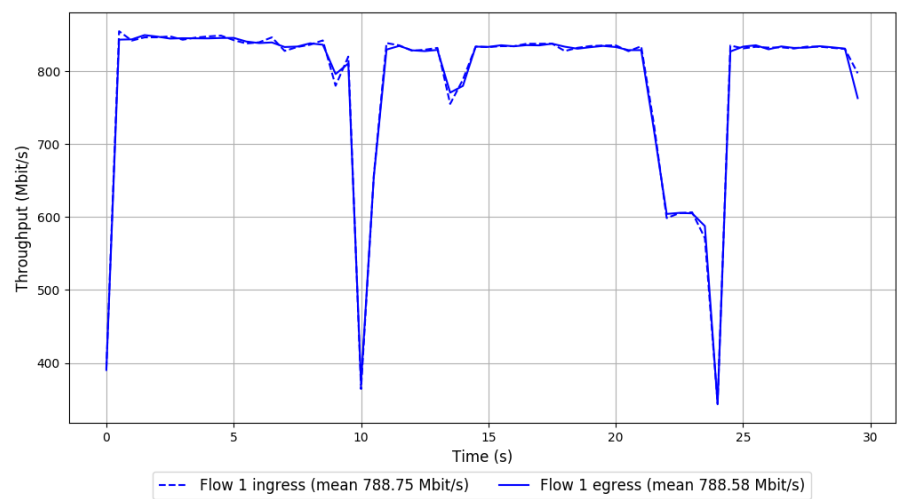


Run 5: Statistics of TCP BBR

Start at: 2017-12-05 11:17:49
End at: 2017-12-05 11:18:19
Local clock offset: 2.059 ms
Remote clock offset: -1.594 ms

Below is generated by plot.py at 2017-12-05 16:27:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 788.58 Mbit/s
95th percentile per-packet one-way delay: 15.638 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 788.58 Mbit/s
95th percentile per-packet one-way delay: 15.638 ms
Loss rate: 0.09%

Run 5: Report of TCP BBR — Data Link

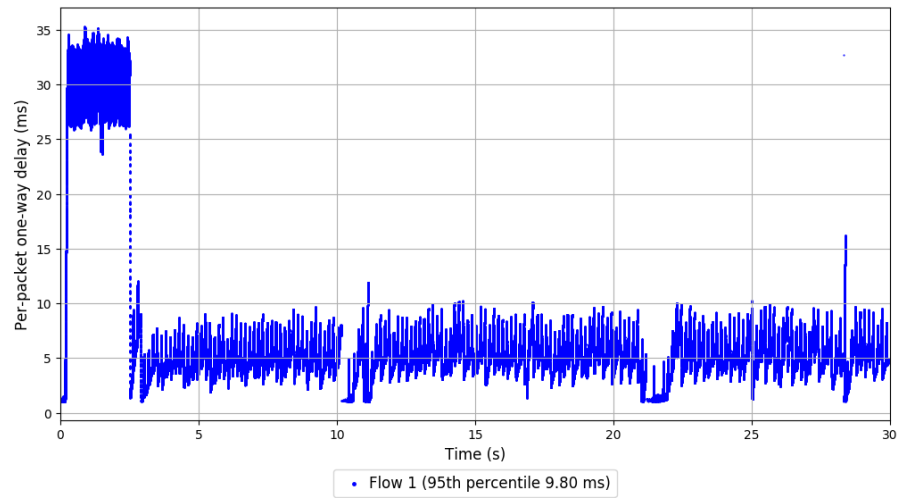
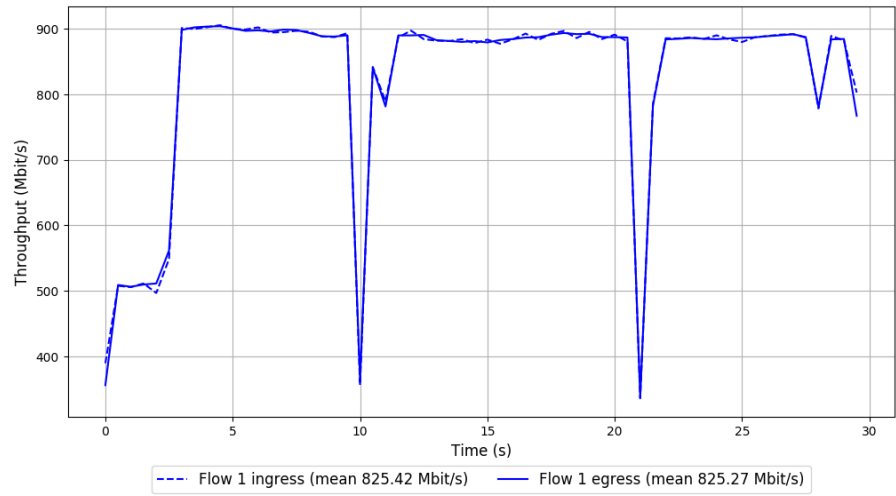


Run 6: Statistics of TCP BBR

Start at: 2017-12-05 11:37:00
End at: 2017-12-05 11:37:30
Local clock offset: 2.119 ms
Remote clock offset: -1.689 ms

Below is generated by plot.py at 2017-12-05 16:27:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 825.27 Mbit/s
95th percentile per-packet one-way delay: 9.802 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 825.27 Mbit/s
95th percentile per-packet one-way delay: 9.802 ms
Loss rate: 0.09%

Run 6: Report of TCP BBR — Data Link

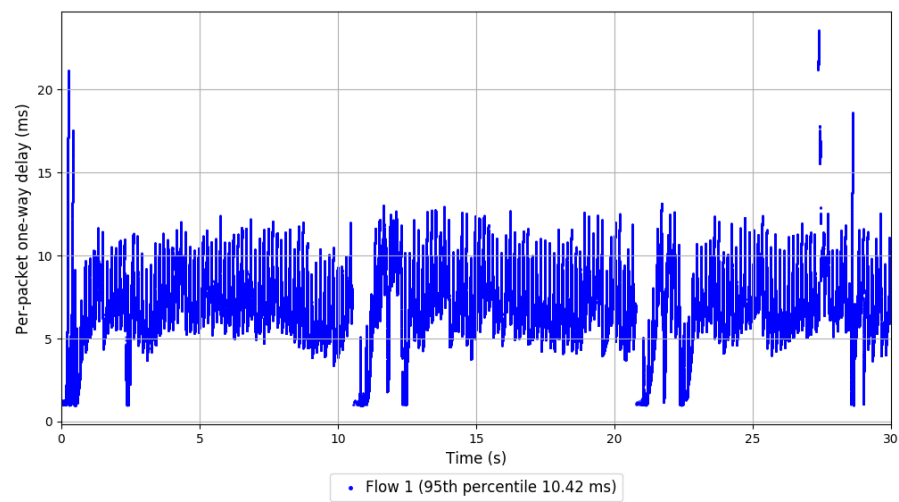
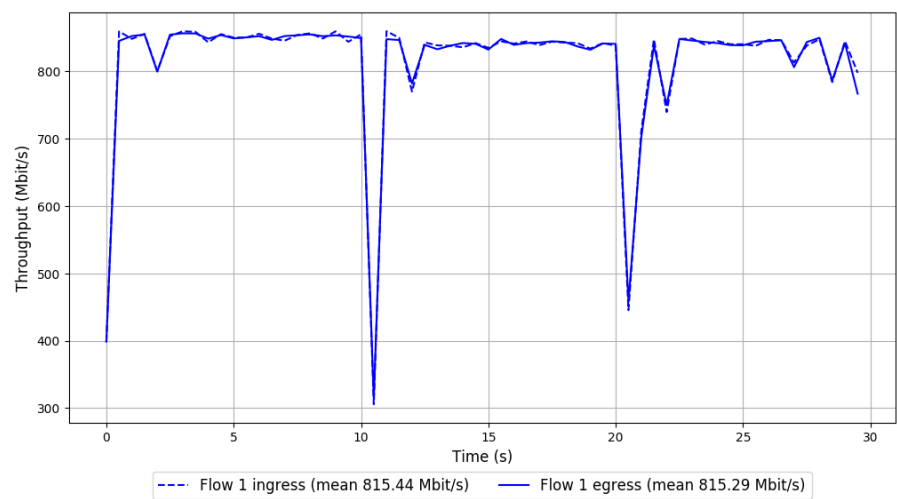


Run 7: Statistics of TCP BBR

Start at: 2017-12-05 11:56:18
End at: 2017-12-05 11:56:48
Local clock offset: 1.658 ms
Remote clock offset: -1.627 ms

Below is generated by plot.py at 2017-12-05 16:27:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 815.29 Mbit/s
95th percentile per-packet one-way delay: 10.423 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 815.29 Mbit/s
95th percentile per-packet one-way delay: 10.423 ms
Loss rate: 0.08%

Run 7: Report of TCP BBR — Data Link

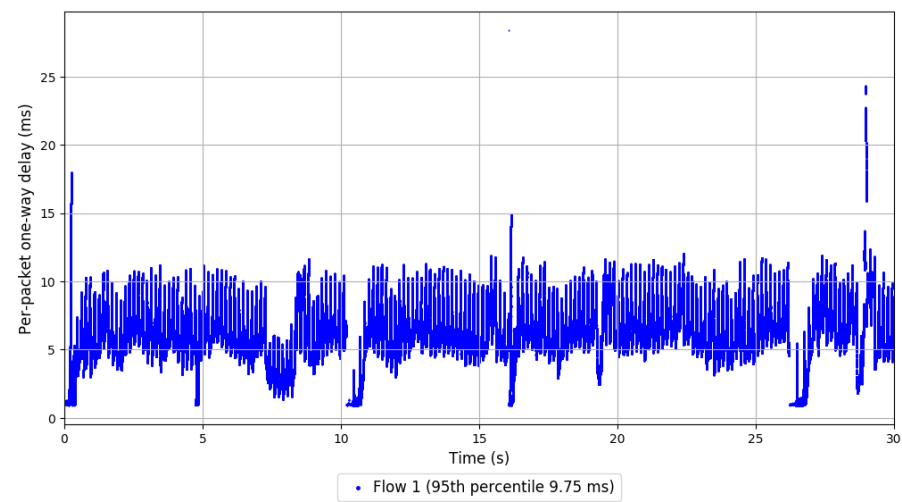
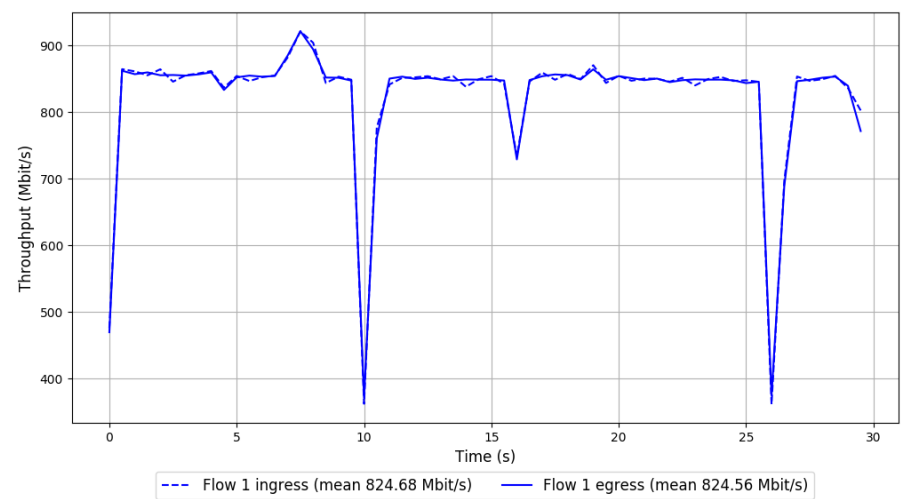


Run 8: Statistics of TCP BBR

Start at: 2017-12-05 12:15:39
End at: 2017-12-05 12:16:09
Local clock offset: 1.286 ms
Remote clock offset: -1.441 ms

Below is generated by plot.py at 2017-12-05 16:27:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 824.56 Mbit/s
95th percentile per-packet one-way delay: 9.749 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 824.56 Mbit/s
95th percentile per-packet one-way delay: 9.749 ms
Loss rate: 0.08%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-12-05 12:34:50

End at: 2017-12-05 12:35:20

Local clock offset: 1.091 ms

Remote clock offset: -1.628 ms

Below is generated by plot.py at 2017-12-05 16:38:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 851.12 Mbit/s

95th percentile per-packet one-way delay: 8.358 ms

Loss rate: 0.09%

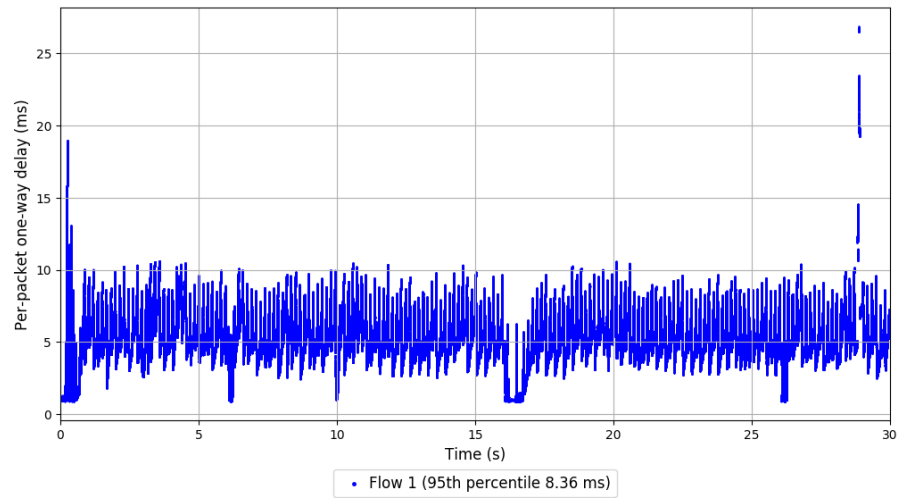
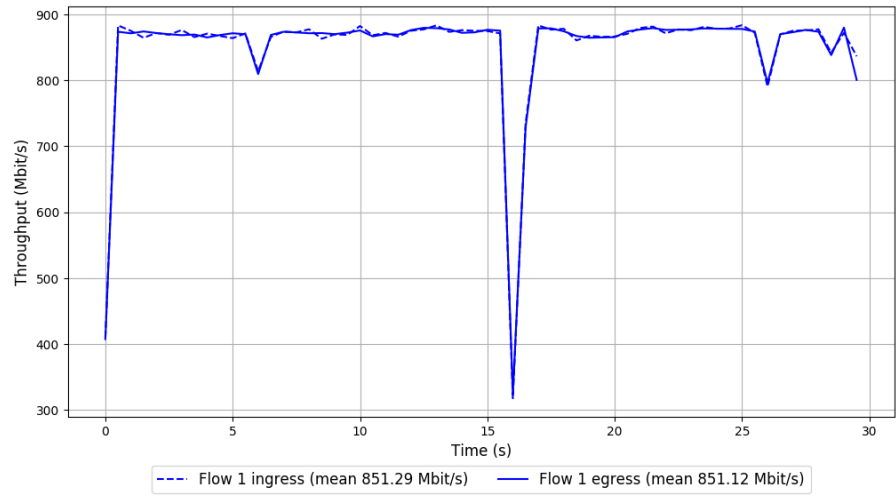
-- Flow 1:

Average throughput: 851.12 Mbit/s

95th percentile per-packet one-way delay: 8.358 ms

Loss rate: 0.09%

Run 9: Report of TCP BBR — Data Link

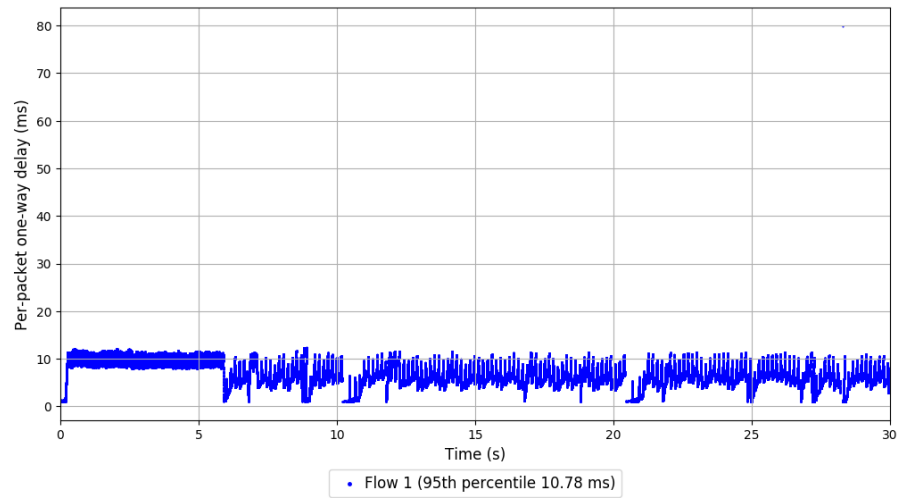
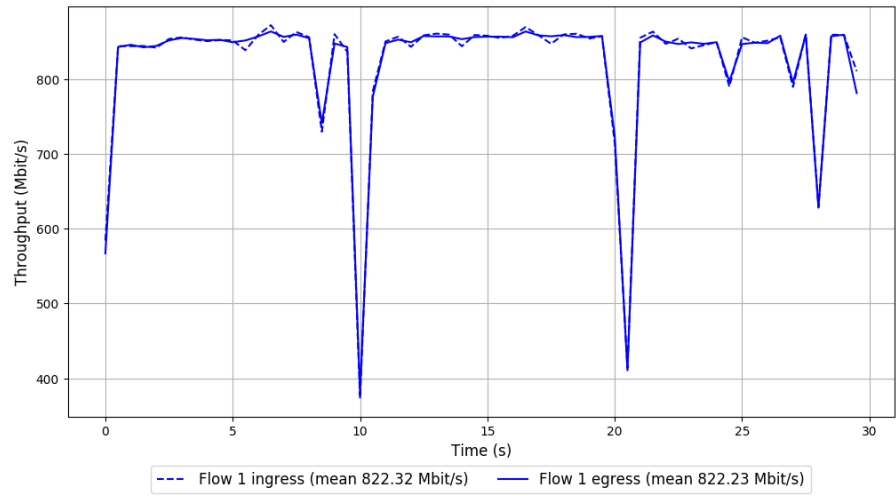


Run 10: Statistics of TCP BBR

Start at: 2017-12-05 12:54:07
End at: 2017-12-05 12:54:37
Local clock offset: 1.041 ms
Remote clock offset: -1.897 ms

Below is generated by plot.py at 2017-12-05 16:38:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 822.23 Mbit/s
95th percentile per-packet one-way delay: 10.779 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 822.23 Mbit/s
95th percentile per-packet one-way delay: 10.779 ms
Loss rate: 0.08%

Run 10: Report of TCP BBR — Data Link

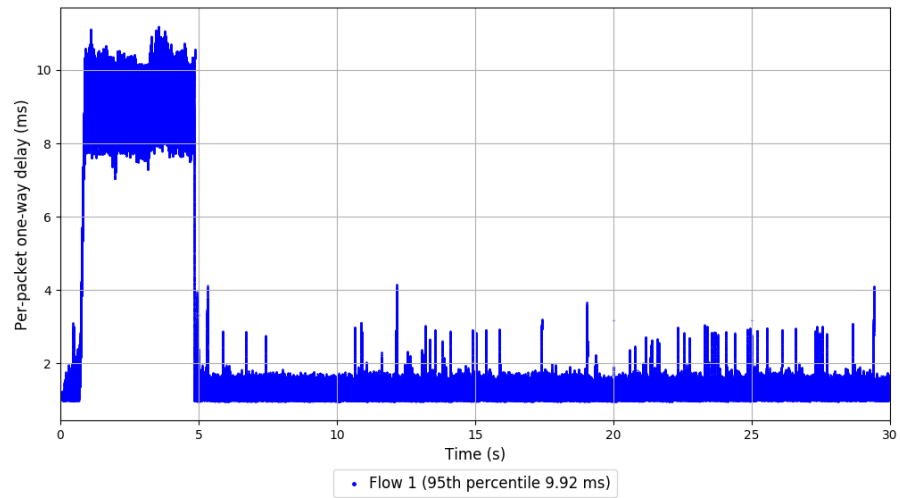
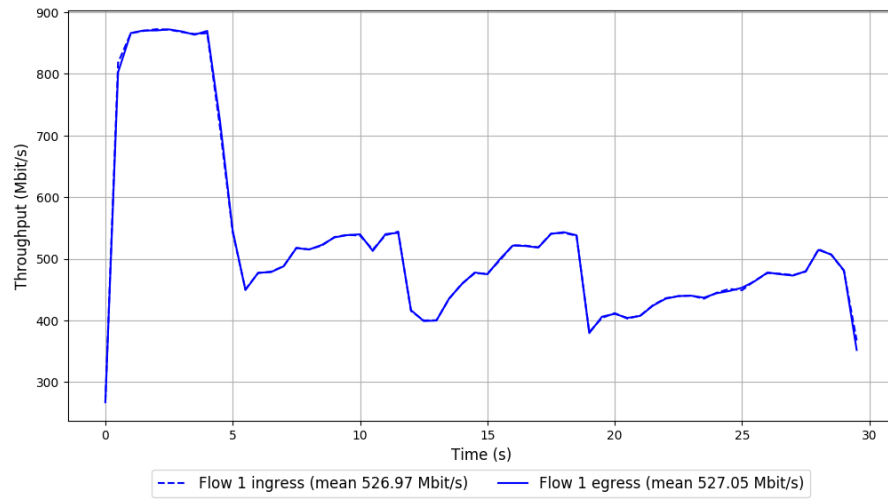


Run 1: Statistics of TCP Cubic

Start at: 2017-12-05 10:04:17
End at: 2017-12-05 10:04:47
Local clock offset: 3.15 ms
Remote clock offset: -2.028 ms

Below is generated by plot.py at 2017-12-05 16:38:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 527.05 Mbit/s
95th percentile per-packet one-way delay: 9.920 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 527.05 Mbit/s
95th percentile per-packet one-way delay: 9.920 ms
Loss rate: 0.05%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

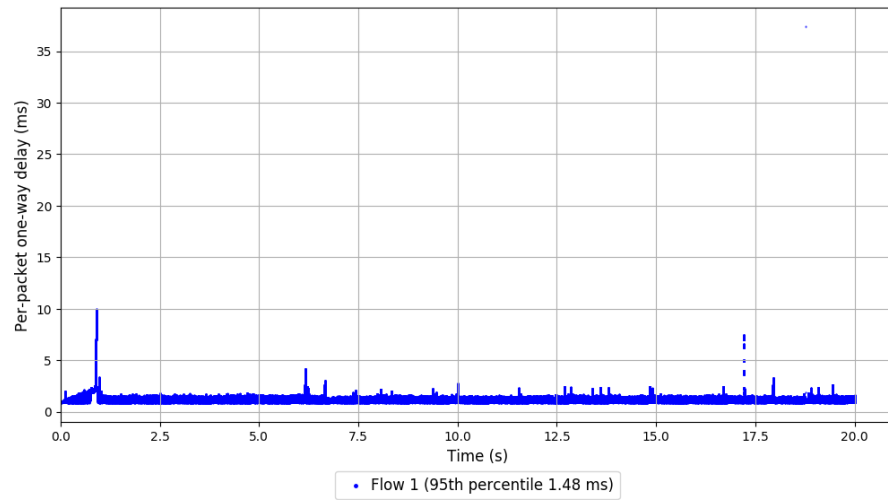
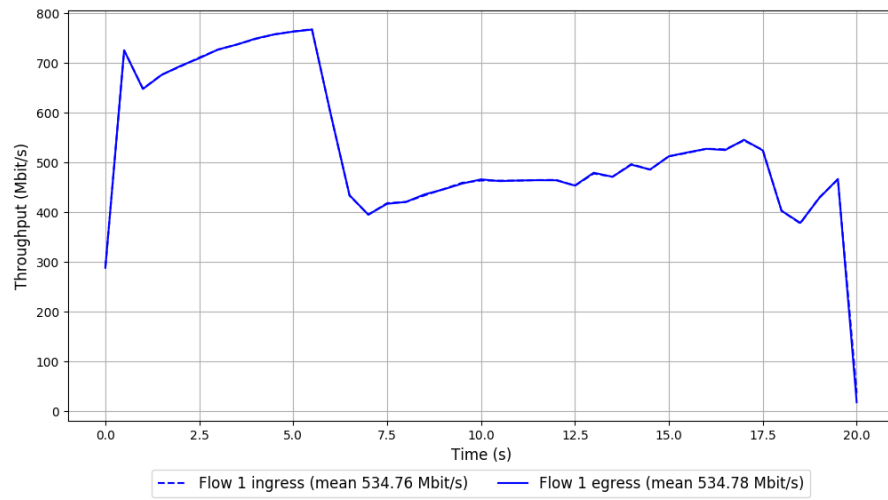
Start at: 2017-12-05 10:23:18

End at: 2017-12-05 10:23:48

Local clock offset: 2.908 ms

Remote clock offset: -1.943 ms

Run 2: Report of TCP Cubic — Data Link

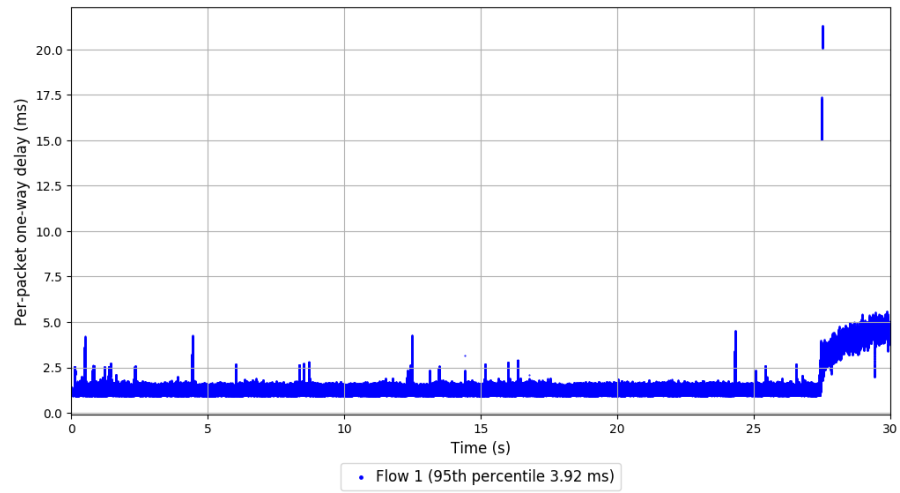
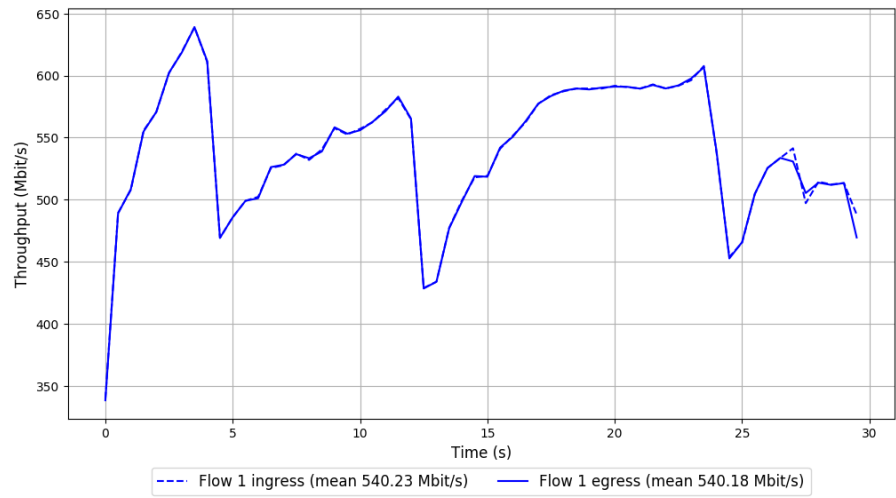


Run 3: Statistics of TCP Cubic

Start at: 2017-12-05 10:42:23
End at: 2017-12-05 10:42:53
Local clock offset: 2.351 ms
Remote clock offset: -1.507 ms

Below is generated by plot.py at 2017-12-05 16:38:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 540.18 Mbit/s
95th percentile per-packet one-way delay: 3.916 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 540.18 Mbit/s
95th percentile per-packet one-way delay: 3.916 ms
Loss rate: 0.07%

Run 3: Report of TCP Cubic — Data Link

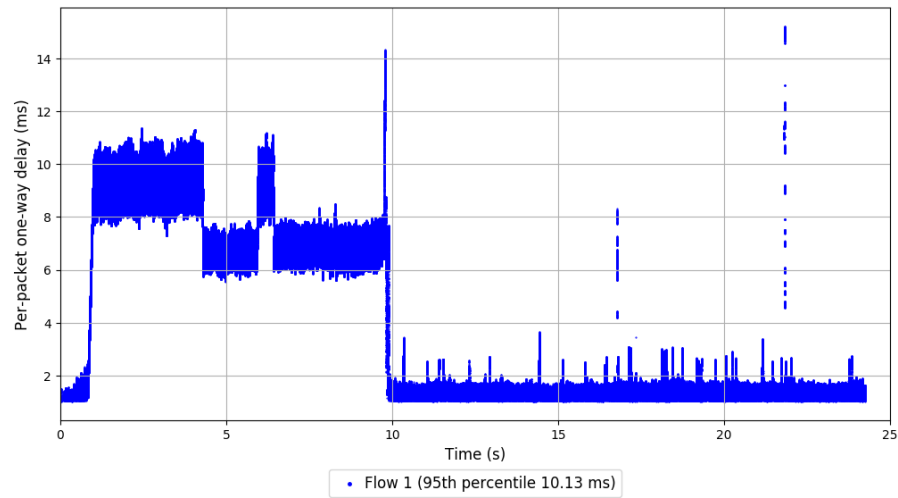
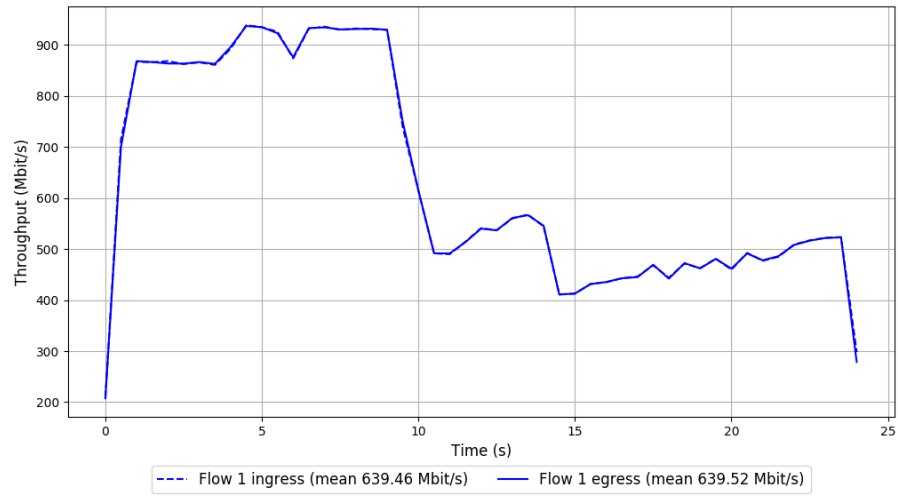


Run 4: Statistics of TCP Cubic

Start at: 2017-12-05 11:01:32
End at: 2017-12-05 11:02:02
Local clock offset: 2.208 ms
Remote clock offset: -1.682 ms

Below is generated by plot.py at 2017-12-05 16:38:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 639.52 Mbit/s
95th percentile per-packet one-way delay: 10.126 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 639.52 Mbit/s
95th percentile per-packet one-way delay: 10.126 ms
Loss rate: 0.07%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

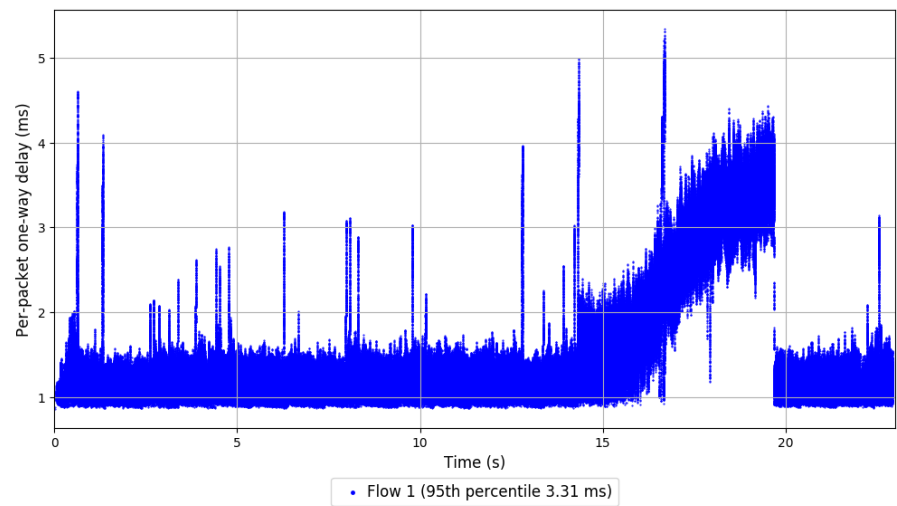
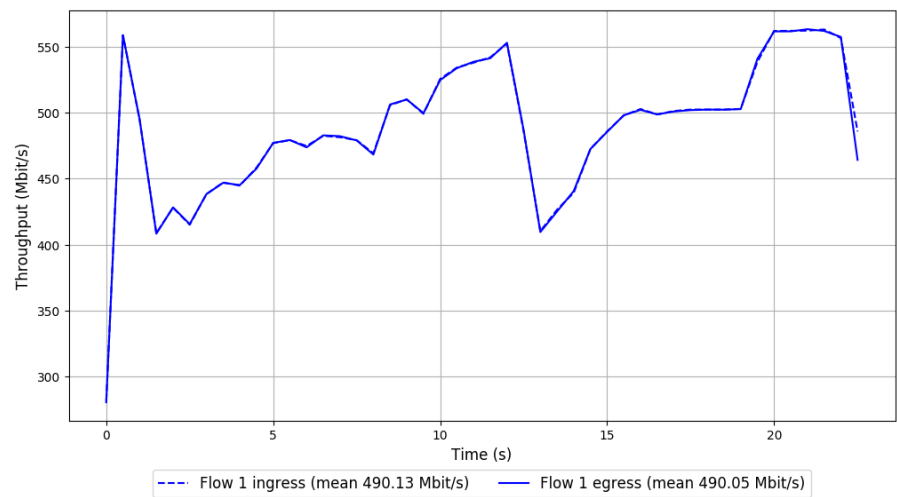
Start at: 2017-12-05 11:20:44

End at: 2017-12-05 11:21:14

Local clock offset: 2.03 ms

Remote clock offset: -1.478 ms

Run 5: Report of TCP Cubic — Data Link

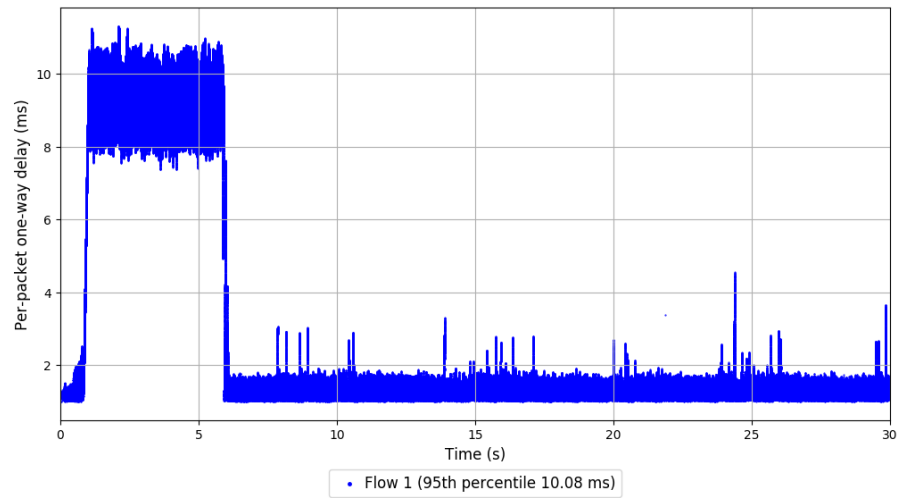
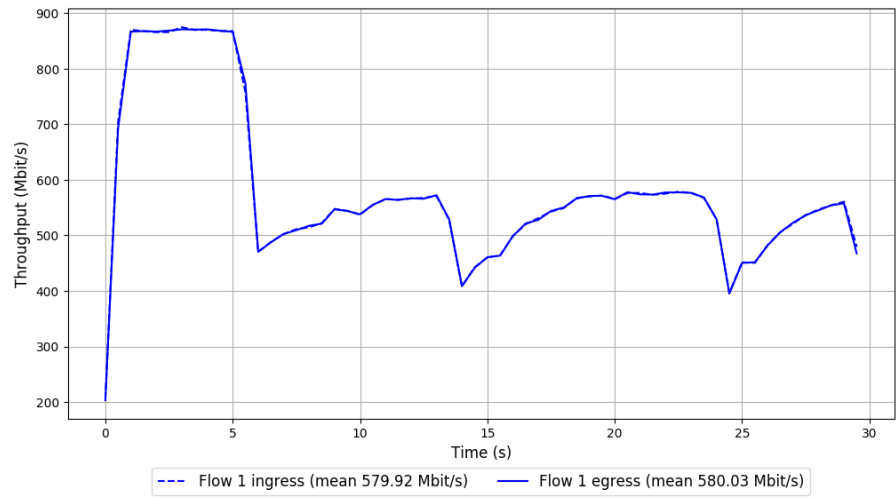


Run 6: Statistics of TCP Cubic

Start at: 2017-12-05 11:39:55
End at: 2017-12-05 11:40:25
Local clock offset: 2.068 ms
Remote clock offset: -1.666 ms

Below is generated by plot.py at 2017-12-05 16:38:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 580.03 Mbit/s
95th percentile per-packet one-way delay: 10.077 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 580.03 Mbit/s
95th percentile per-packet one-way delay: 10.077 ms
Loss rate: 0.05%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

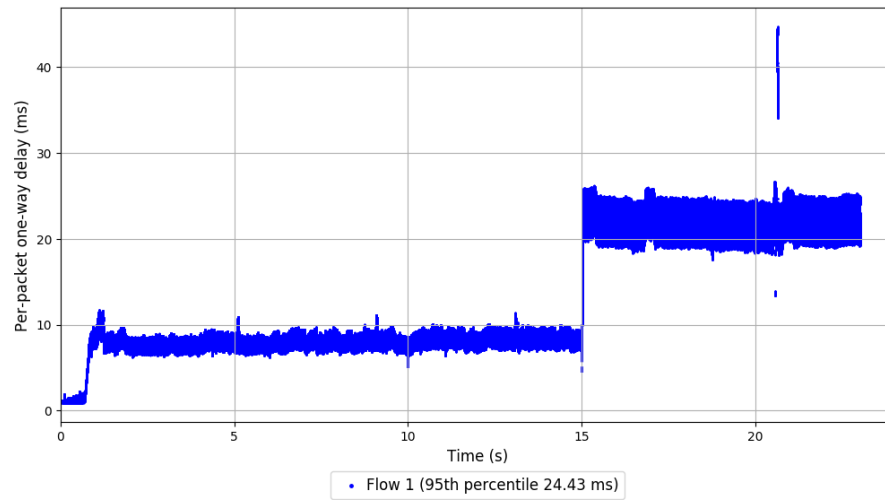
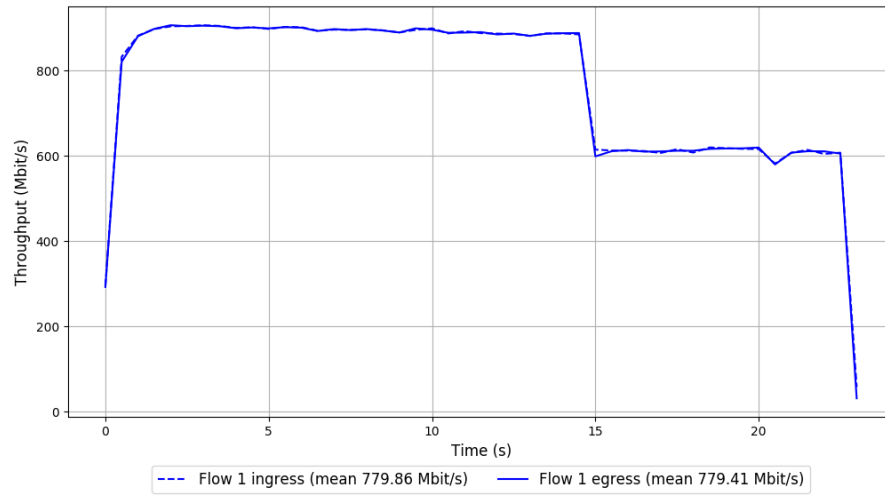
Start at: 2017-12-05 11:59:14

End at: 2017-12-05 11:59:44

Local clock offset: 1.603 ms

Remote clock offset: -1.523 ms

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

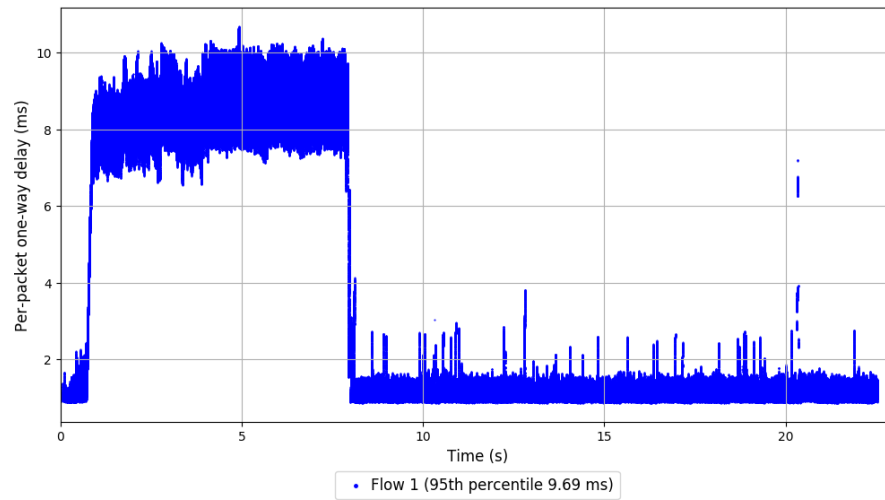
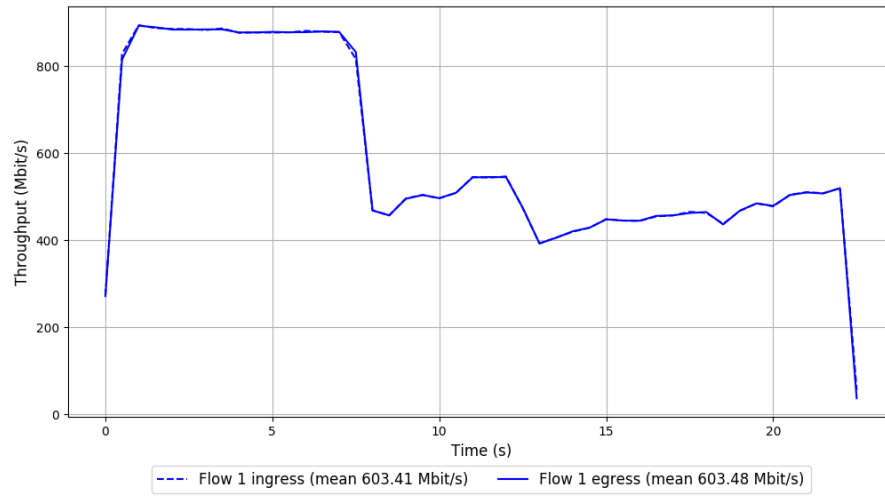
Start at: 2017-12-05 12:18:35

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

Local clock offset: 1.258 ms

Remote clock offset: -1.453 ms

Run 8: Report of TCP Cubic — Data Link

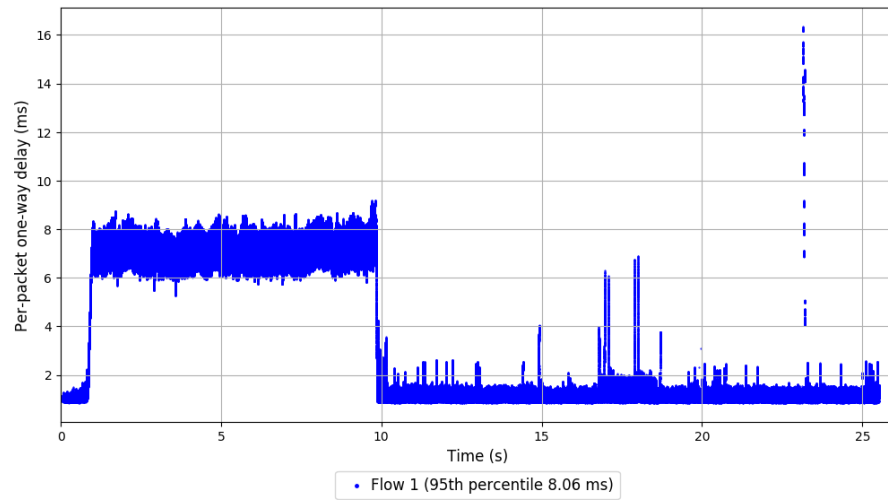
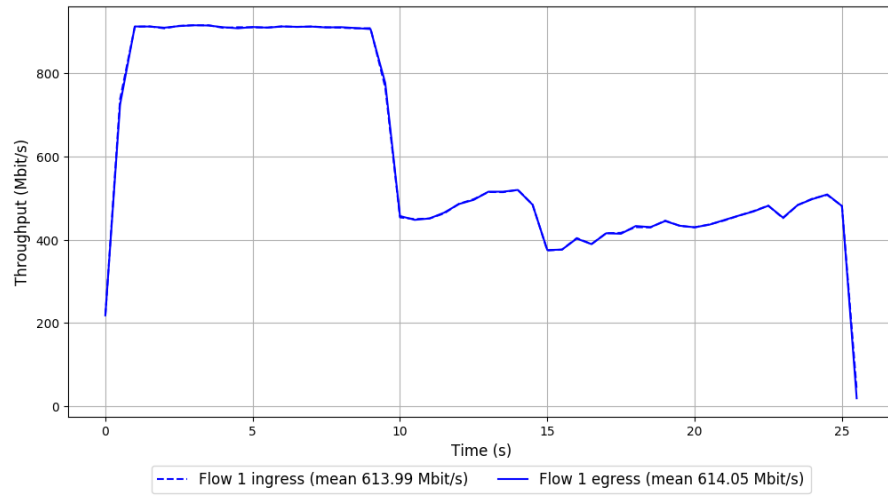


Run 9: Statistics of TCP Cubic

Start at: 2017-12-05 12:37:46
End at: 2017-12-05 12:38:16
Local clock offset: 1.063 ms
Remote clock offset: -1.663 ms

Below is generated by plot.py at 2017-12-05 16:42:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 614.05 Mbit/s
95th percentile per-packet one-way delay: 8.063 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 614.05 Mbit/s
95th percentile per-packet one-way delay: 8.063 ms
Loss rate: 0.07%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-12-05 12:57:03

End at: 2017-12-05 12:57:33

Local clock offset: 1.007 ms

Remote clock offset: -1.948 ms

Below is generated by plot.py at 2017-12-05 16:46:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 924.25 Mbit/s

95th percentile per-packet one-way delay: 8.182 ms

Loss rate: 0.11%

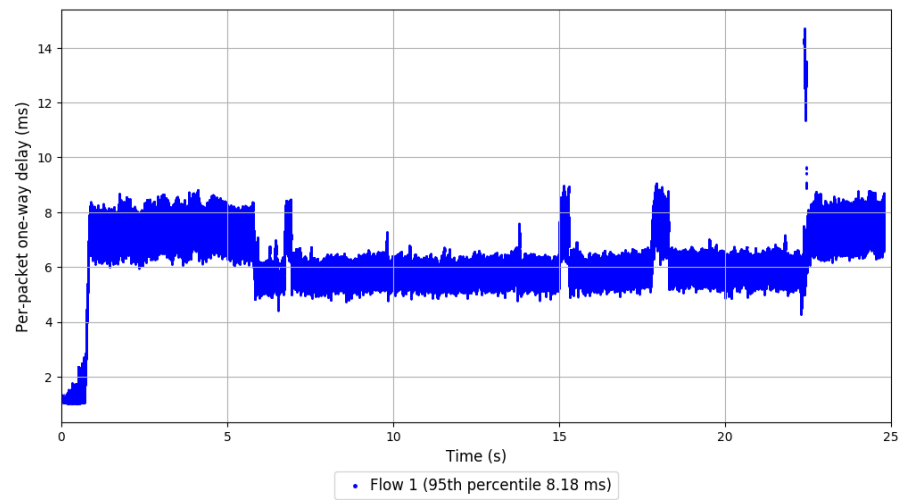
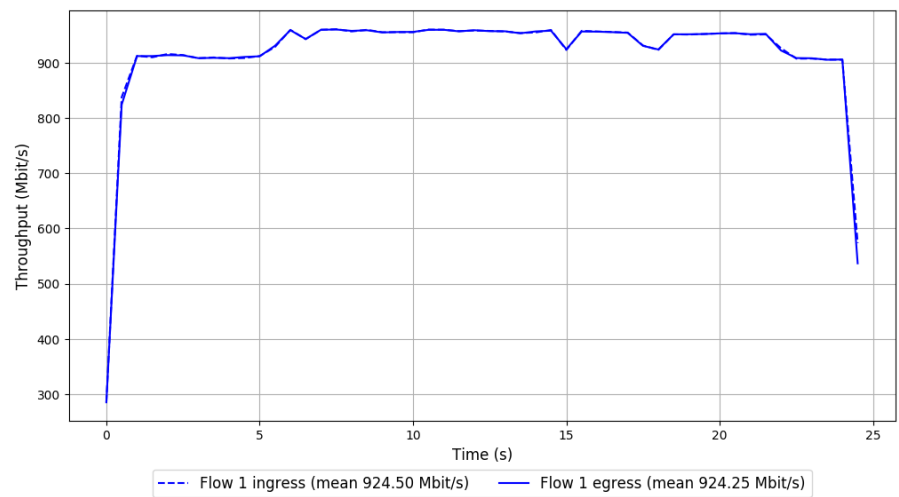
-- Flow 1:

Average throughput: 924.25 Mbit/s

95th percentile per-packet one-way delay: 8.182 ms

Loss rate: 0.11%

Run 10: Report of TCP Cubic — Data Link

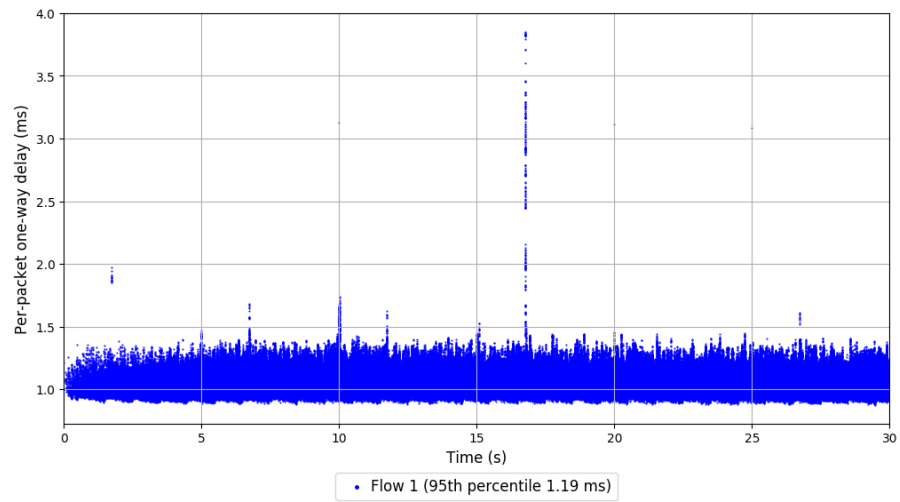
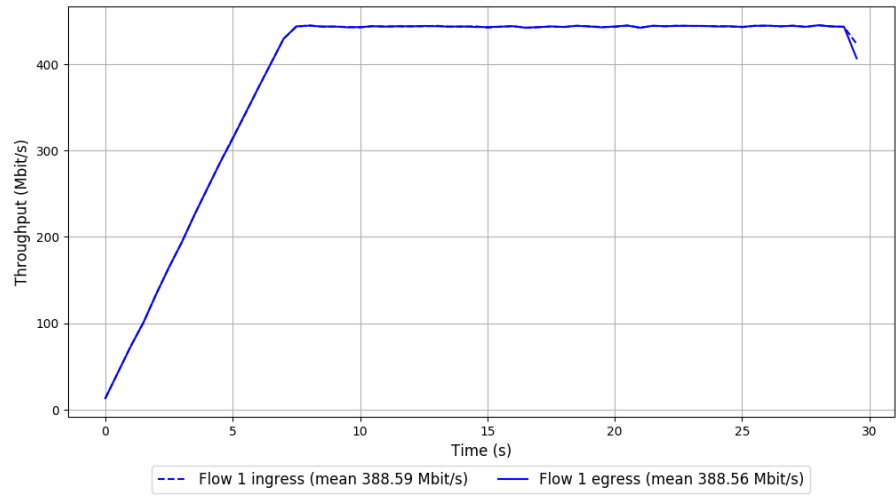


Run 1: Statistics of LEDBAT

Start at: 2017-12-05 09:49:08
End at: 2017-12-05 09:49:38
Local clock offset: 3.141 ms
Remote clock offset: -1.958 ms

Below is generated by plot.py at 2017-12-05 16:46:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 388.56 Mbit/s
95th percentile per-packet one-way delay: 1.193 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 388.56 Mbit/s
95th percentile per-packet one-way delay: 1.193 ms
Loss rate: 0.08%

Run 1: Report of LEDBAT — Data Link

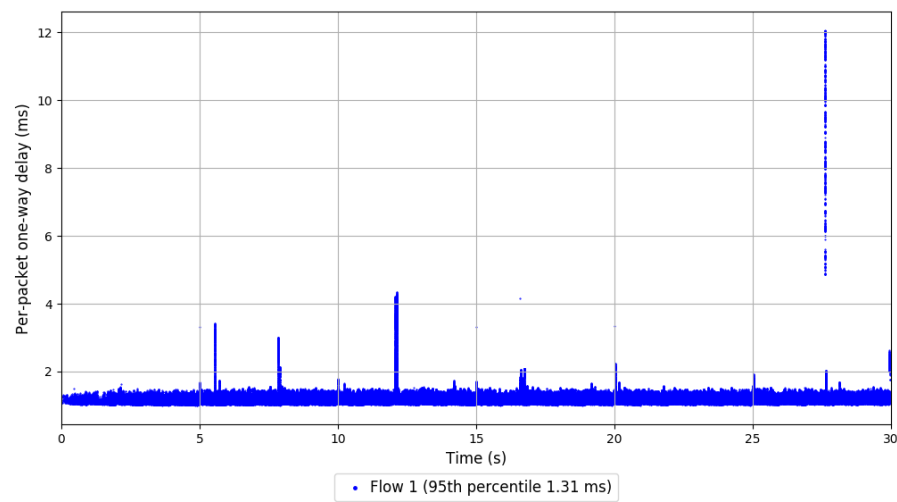
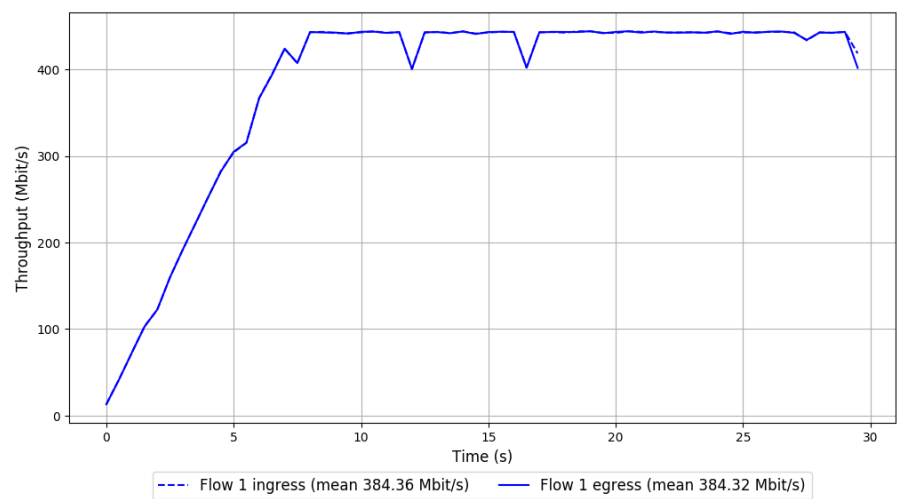


Run 2: Statistics of LEDBAT

Start at: 2017-12-05 10:08:18
End at: 2017-12-05 10:08:48
Local clock offset: 3.182 ms
Remote clock offset: -1.972 ms

Below is generated by plot.py at 2017-12-05 16:46:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 384.32 Mbit/s
95th percentile per-packet one-way delay: 1.315 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 384.32 Mbit/s
95th percentile per-packet one-way delay: 1.315 ms
Loss rate: 0.08%

Run 2: Report of LEDBAT — Data Link

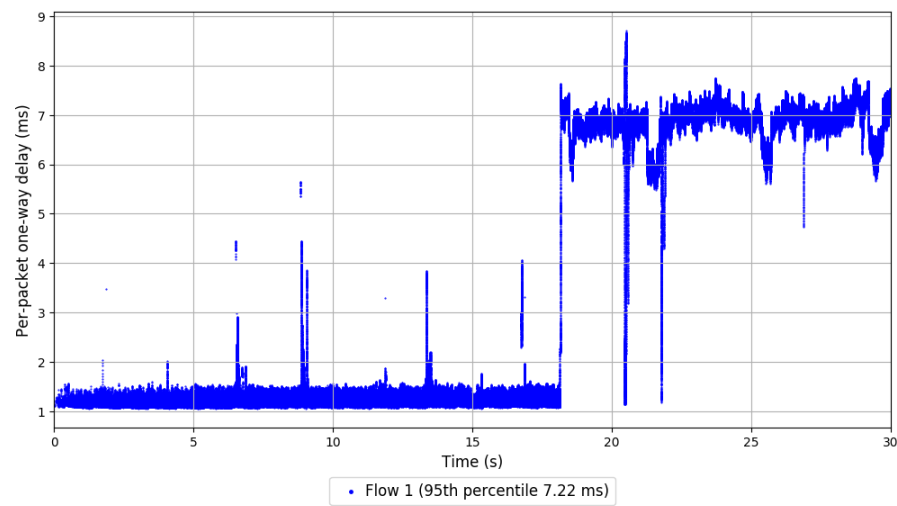
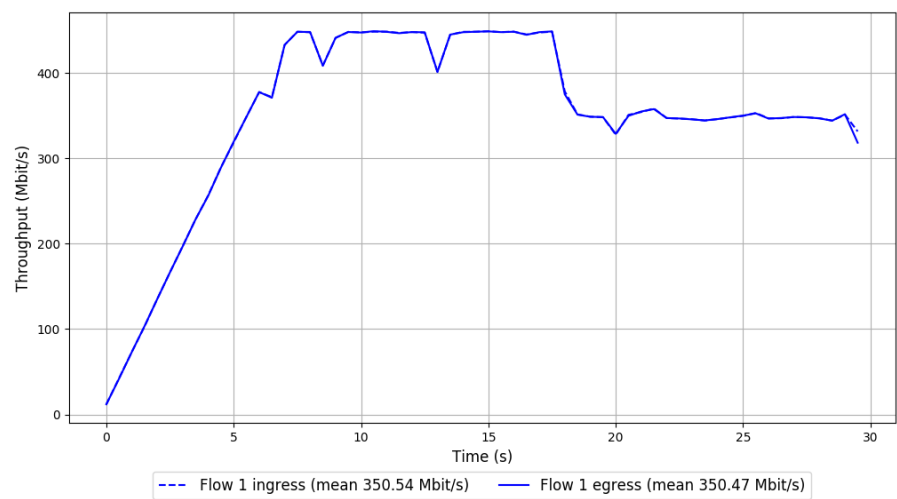


Run 3: Statistics of LEDBAT

Start at: 2017-12-05 10:27:19
End at: 2017-12-05 10:27:49
Local clock offset: 2.873 ms
Remote clock offset: -1.957 ms

Below is generated by plot.py at 2017-12-05 16:46:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 350.47 Mbit/s
95th percentile per-packet one-way delay: 7.218 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 350.47 Mbit/s
95th percentile per-packet one-way delay: 7.218 ms
Loss rate: 0.08%

Run 3: Report of LEDBAT — Data Link

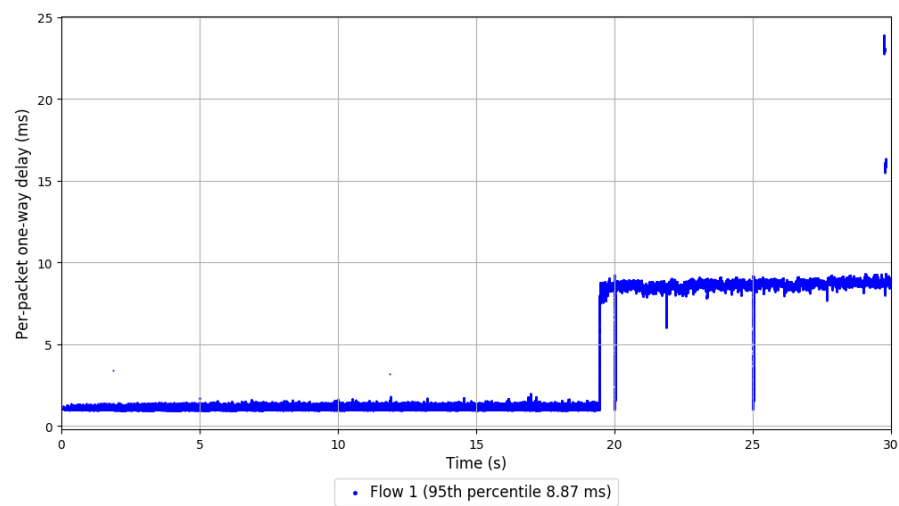
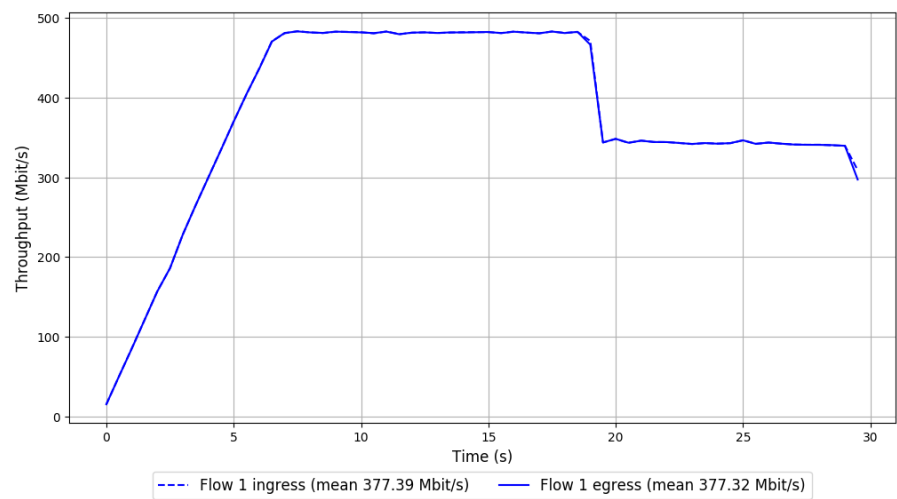


Run 4: Statistics of LEDBAT

Start at: 2017-12-05 10:46:26
End at: 2017-12-05 10:46:57
Local clock offset: 2.326 ms
Remote clock offset: -1.448 ms

Below is generated by plot.py at 2017-12-05 16:46:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 377.32 Mbit/s
95th percentile per-packet one-way delay: 8.866 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 377.32 Mbit/s
95th percentile per-packet one-way delay: 8.866 ms
Loss rate: 0.08%

Run 4: Report of LEDBAT — Data Link

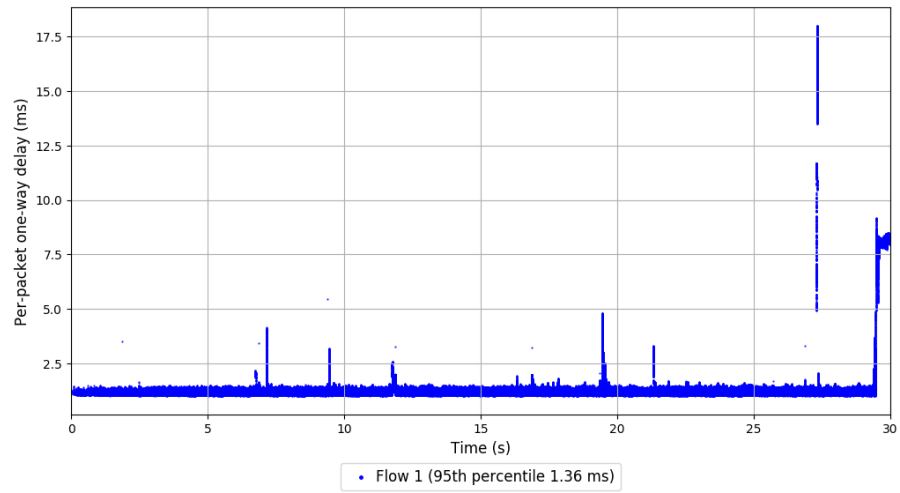
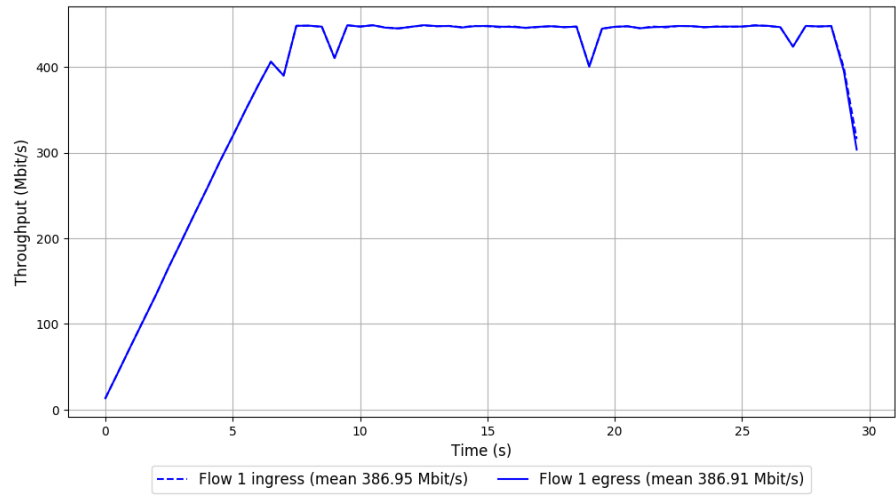


Run 5: Statistics of LEDBAT

Start at: 2017-12-05 11:05:38
End at: 2017-12-05 11:06:08
Local clock offset: 2.16 ms
Remote clock offset: -1.742 ms

Below is generated by plot.py at 2017-12-05 16:46:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 386.91 Mbit/s
95th percentile per-packet one-way delay: 1.356 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 386.91 Mbit/s
95th percentile per-packet one-way delay: 1.356 ms
Loss rate: 0.08%

Run 5: Report of LEDBAT — Data Link

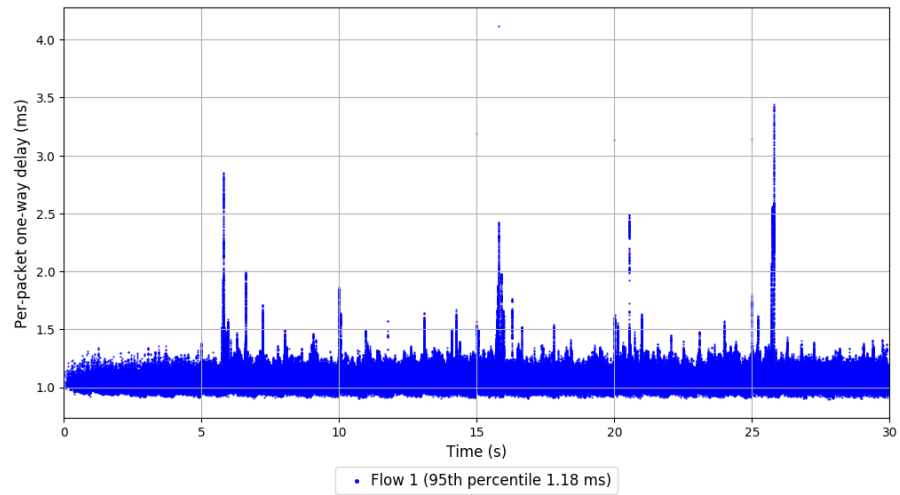
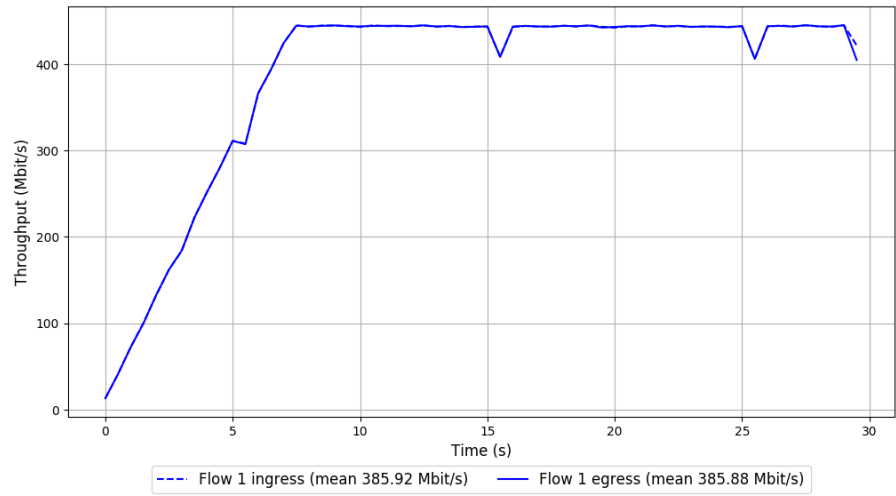


Run 6: Statistics of LEDBAT

Start at: 2017-12-05 11:24:45
End at: 2017-12-05 11:25:15
Local clock offset: 2.03 ms
Remote clock offset: -1.537 ms

Below is generated by plot.py at 2017-12-05 16:46:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 385.88 Mbit/s
95th percentile per-packet one-way delay: 1.180 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 385.88 Mbit/s
95th percentile per-packet one-way delay: 1.180 ms
Loss rate: 0.08%

Run 6: Report of LEDBAT — Data Link

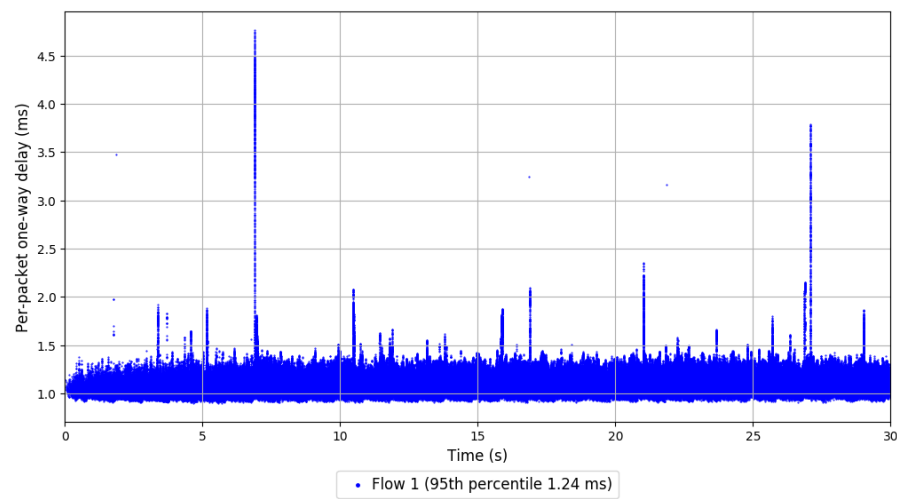
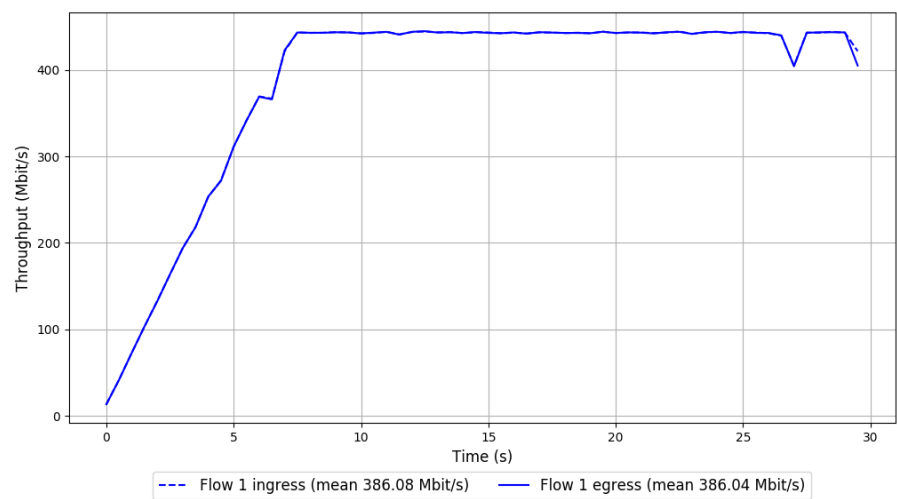


Run 7: Statistics of LEDBAT

Start at: 2017-12-05 11:44:06
End at: 2017-12-05 11:44:36
Local clock offset: 1.897 ms
Remote clock offset: -1.659 ms

Below is generated by plot.py at 2017-12-05 16:46:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 386.04 Mbit/s
95th percentile per-packet one-way delay: 1.239 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 386.04 Mbit/s
95th percentile per-packet one-way delay: 1.239 ms
Loss rate: 0.08%

Run 7: Report of LEDBAT — Data Link

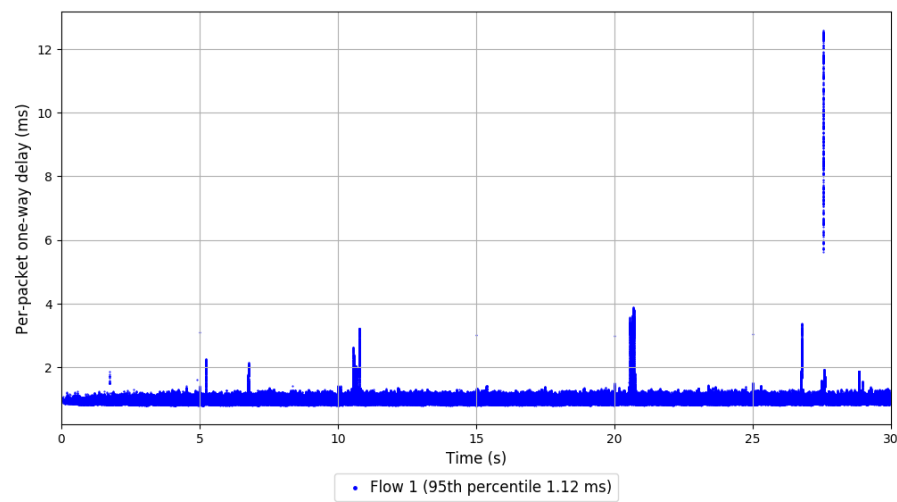
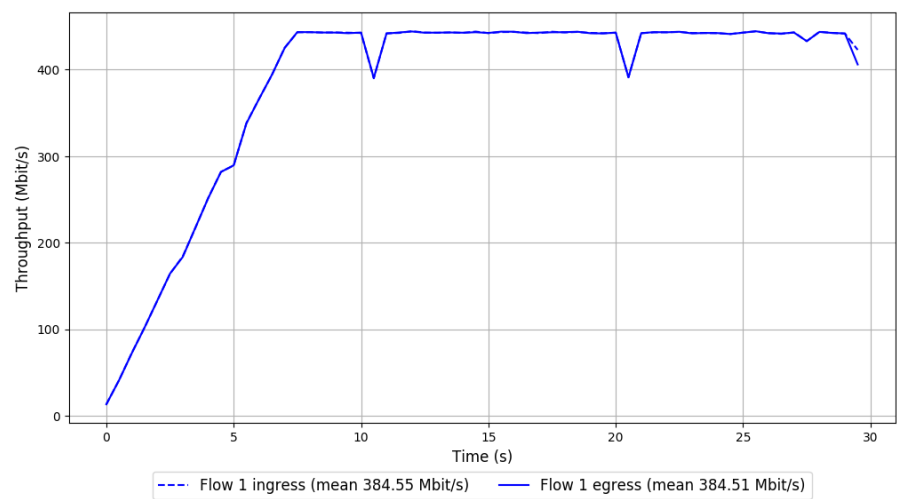


Run 8: Statistics of LEDBAT

Start at: 2017-12-05 12:03:25
End at: 2017-12-05 12:03:55
Local clock offset: 1.51 ms
Remote clock offset: -1.476 ms

Below is generated by plot.py at 2017-12-05 16:47:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 384.51 Mbit/s
95th percentile per-packet one-way delay: 1.116 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 384.51 Mbit/s
95th percentile per-packet one-way delay: 1.116 ms
Loss rate: 0.08%

Run 8: Report of LEDBAT — Data Link

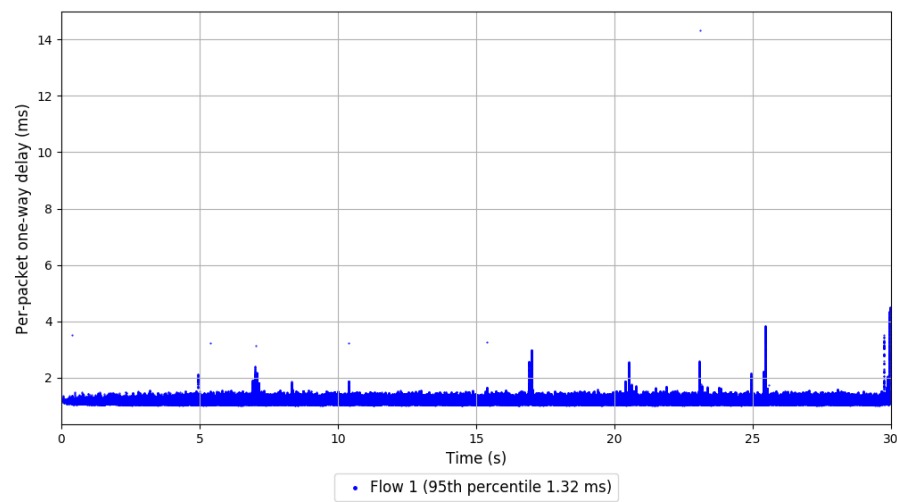
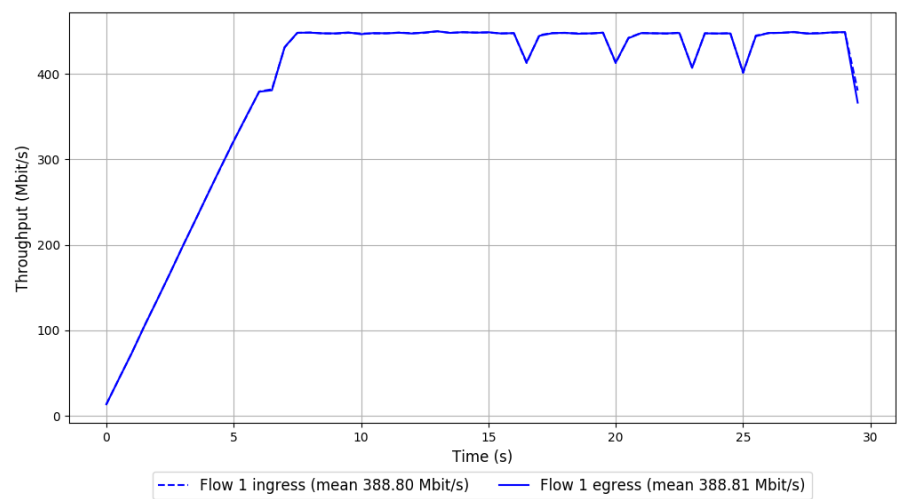


Run 9: Statistics of LEDBAT

Start at: 2017-12-05 12:22:39
End at: 2017-12-05 12:23:09
Local clock offset: 1.314 ms
Remote clock offset: -1.592 ms

Below is generated by plot.py at 2017-12-05 16:48:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 388.81 Mbit/s
95th percentile per-packet one-way delay: 1.319 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 388.81 Mbit/s
95th percentile per-packet one-way delay: 1.319 ms
Loss rate: 0.07%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-12-05 12:41:56

End at: 2017-12-05 12:42:26

Local clock offset: 1.0 ms

Remote clock offset: -1.827 ms

Below is generated by plot.py at 2017-12-05 16:49:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 391.55 Mbit/s

95th percentile per-packet one-way delay: 1.204 ms

Loss rate: 0.08%

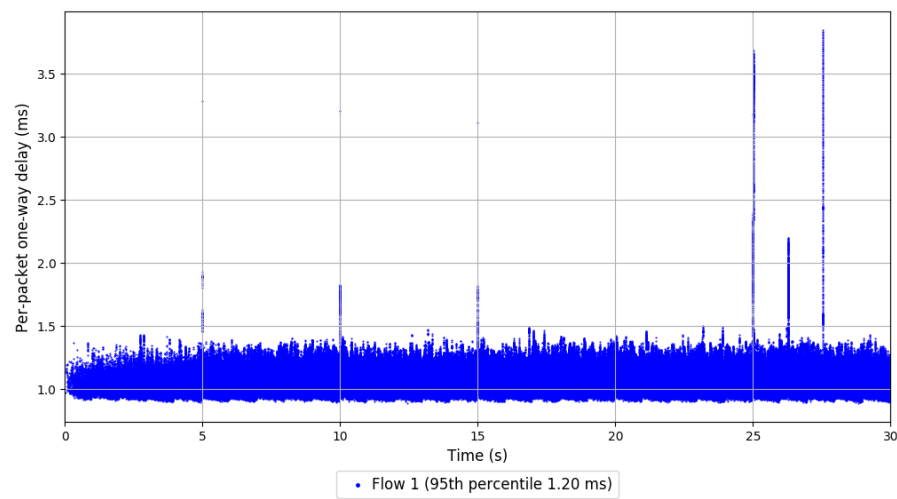
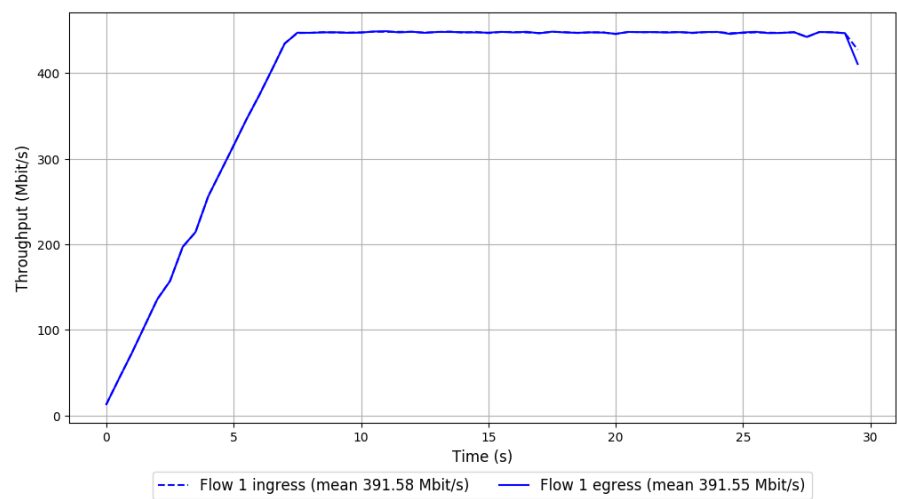
-- Flow 1:

Average throughput: 391.55 Mbit/s

95th percentile per-packet one-way delay: 1.204 ms

Loss rate: 0.08%

Run 10: Report of LEDBAT — Data Link

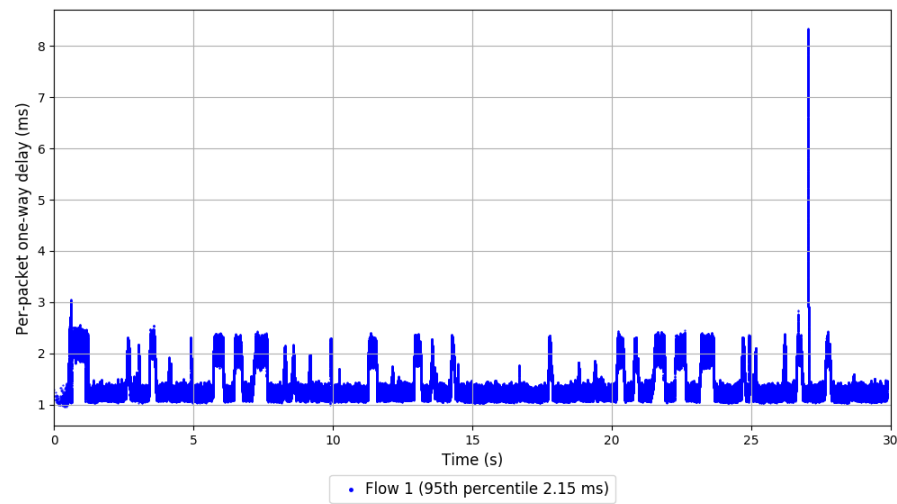
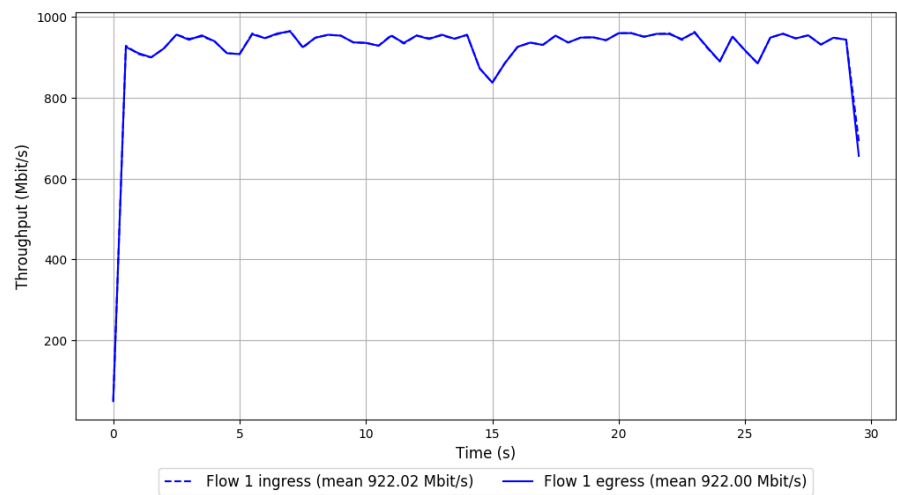


Run 1: Statistics of PCC

Start at: 2017-12-05 09:52:58
End at: 2017-12-05 09:53:28
Local clock offset: 3.256 ms
Remote clock offset: -2.042 ms

Below is generated by plot.py at 2017-12-05 16:57:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 922.00 Mbit/s
95th percentile per-packet one-way delay: 2.147 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 922.00 Mbit/s
95th percentile per-packet one-way delay: 2.147 ms
Loss rate: 0.07%

Run 1: Report of PCC — Data Link

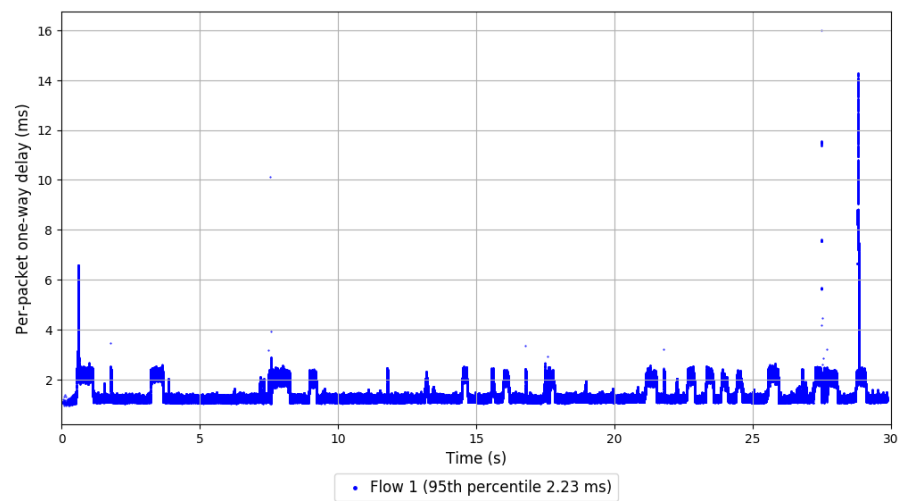
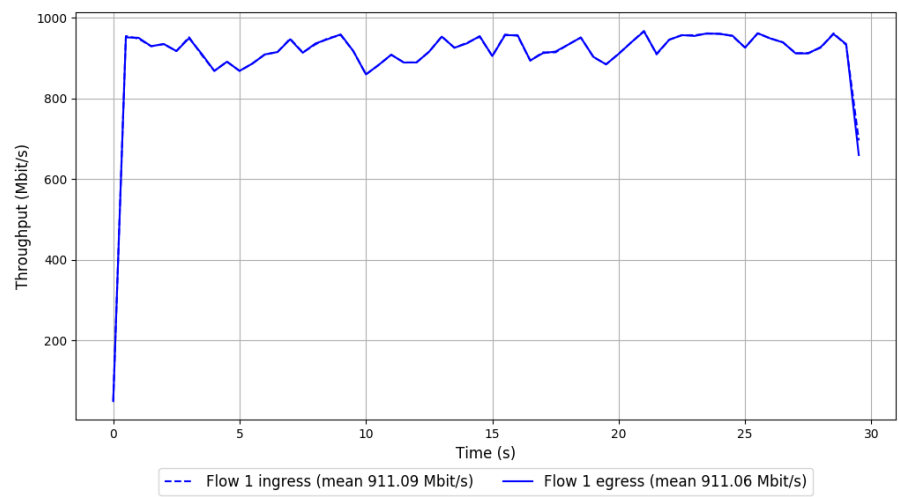


Run 2: Statistics of PCC

Start at: 2017-12-05 10:12:07
End at: 2017-12-05 10:12:37
Local clock offset: 3.137 ms
Remote clock offset: -1.963 ms

Below is generated by plot.py at 2017-12-05 16:59:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 911.06 Mbit/s
95th percentile per-packet one-way delay: 2.230 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 911.06 Mbit/s
95th percentile per-packet one-way delay: 2.230 ms
Loss rate: 0.07%

Run 2: Report of PCC — Data Link

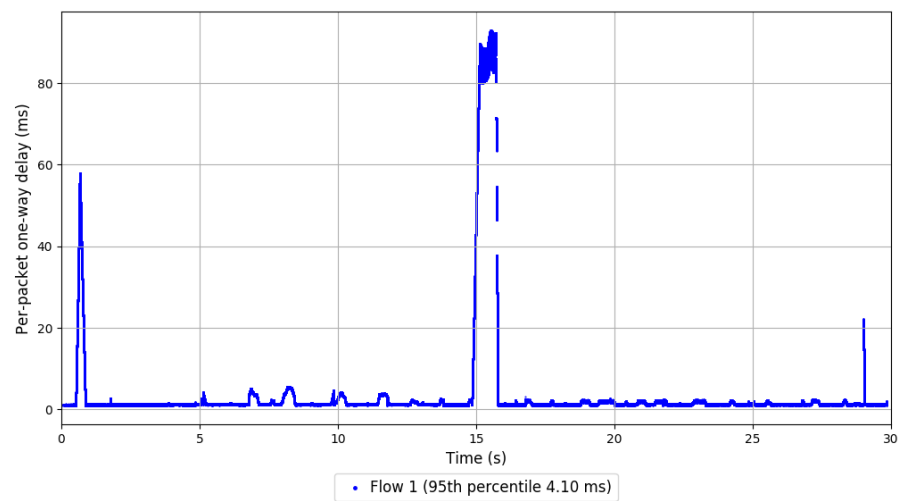
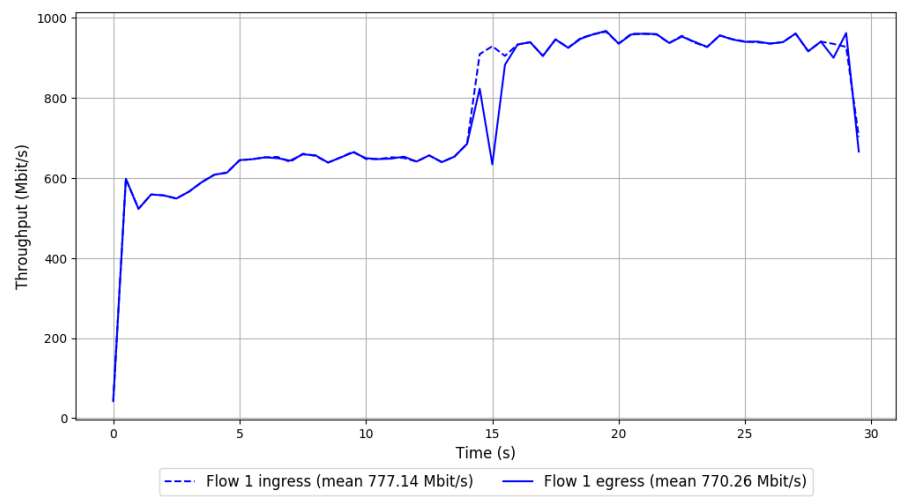


Run 3: Statistics of PCC

Start at: 2017-12-05 10:31:08
End at: 2017-12-05 10:31:38
Local clock offset: 2.654 ms
Remote clock offset: -1.749 ms

Below is generated by plot.py at 2017-12-05 16:59:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 770.26 Mbit/s
95th percentile per-packet one-way delay: 4.102 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 770.26 Mbit/s
95th percentile per-packet one-way delay: 4.102 ms
Loss rate: 0.95%

Run 3: Report of PCC — Data Link

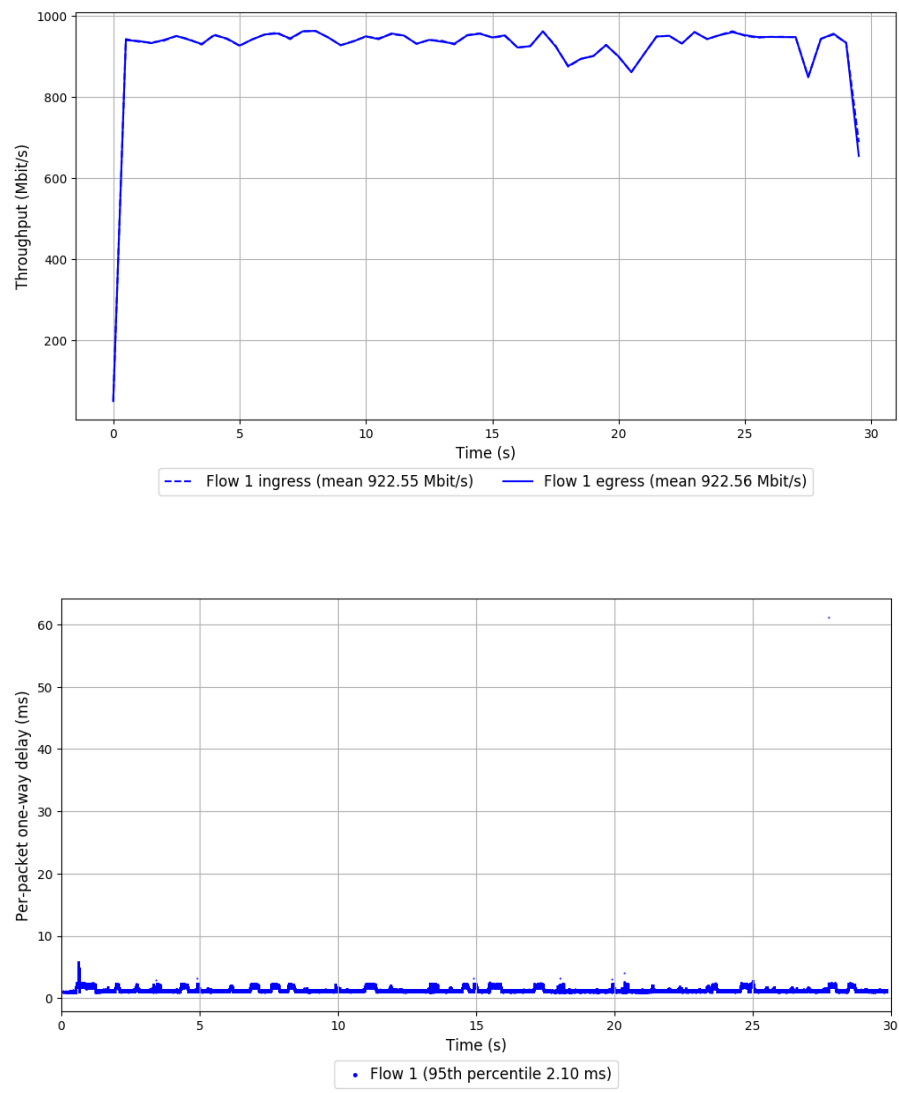


Run 4: Statistics of PCC

Start at: 2017-12-05 10:50:16
End at: 2017-12-05 10:50:46
Local clock offset: 2.141 ms
Remote clock offset: -1.565 ms

Below is generated by plot.py at 2017-12-05 17:00:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 922.56 Mbit/s
95th percentile per-packet one-way delay: 2.099 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 922.56 Mbit/s
95th percentile per-packet one-way delay: 2.099 ms
Loss rate: 0.07%

Run 4: Report of PCC — Data Link

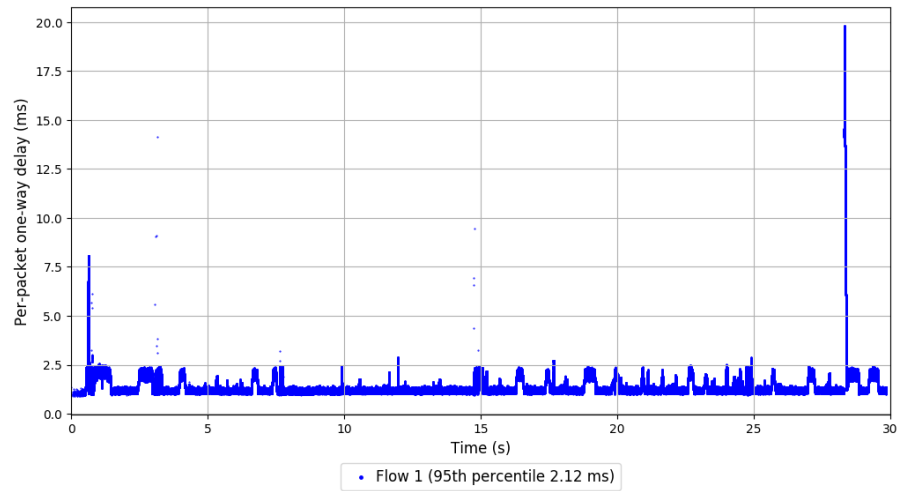
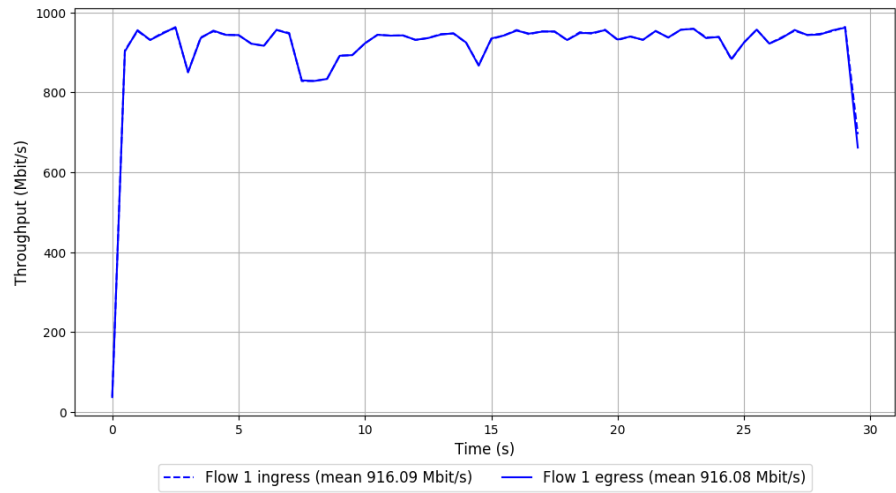


Run 5: Statistics of PCC

Start at: 2017-12-05 11:09:28
End at: 2017-12-05 11:09:58
Local clock offset: 2.056 ms
Remote clock offset: -1.775 ms

Below is generated by plot.py at 2017-12-05 17:00:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 916.08 Mbit/s
95th percentile per-packet one-way delay: 2.125 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 916.08 Mbit/s
95th percentile per-packet one-way delay: 2.125 ms
Loss rate: 0.07%

Run 5: Report of PCC — Data Link

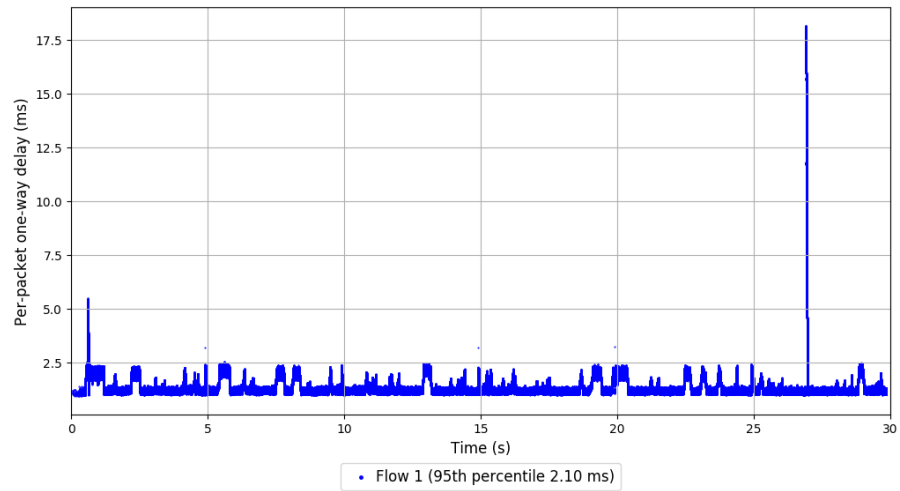
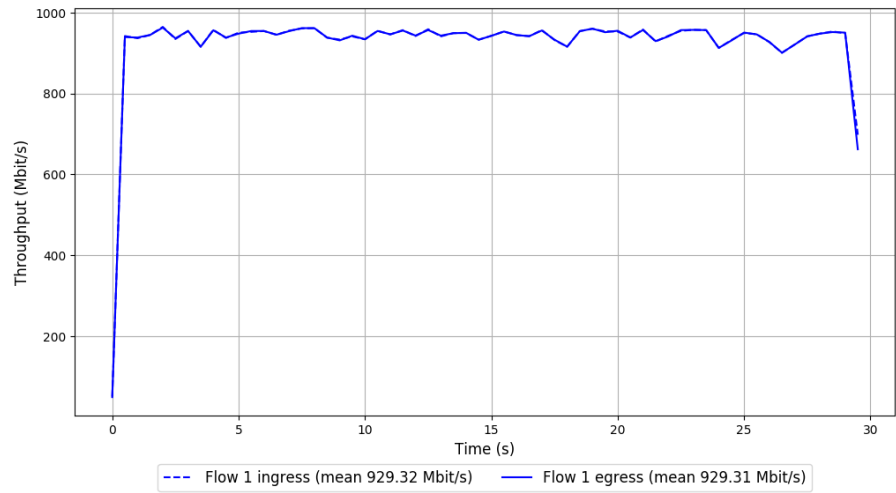


Run 6: Statistics of PCC

Start at: 2017-12-05 11:28:35
End at: 2017-12-05 11:29:05
Local clock offset: 2.131 ms
Remote clock offset: -1.535 ms

Below is generated by plot.py at 2017-12-05 17:01:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 929.31 Mbit/s
95th percentile per-packet one-way delay: 2.101 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 929.31 Mbit/s
95th percentile per-packet one-way delay: 2.101 ms
Loss rate: 0.07%

Run 6: Report of PCC — Data Link

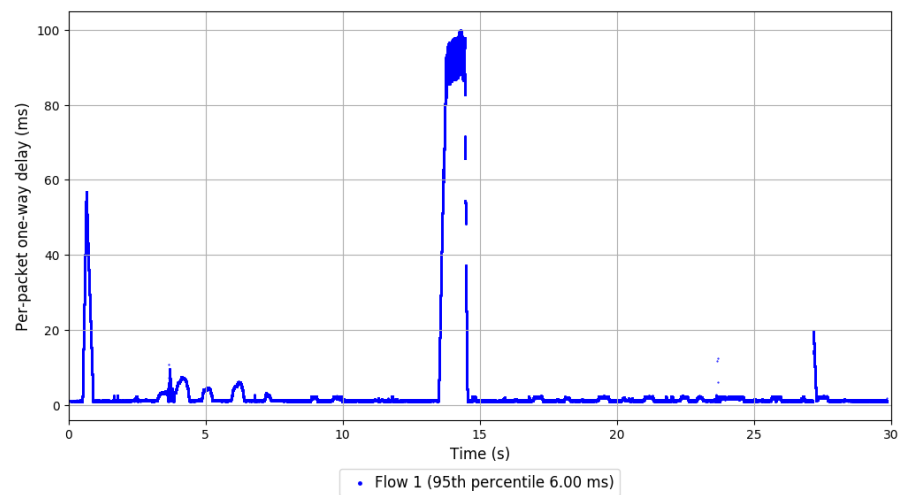
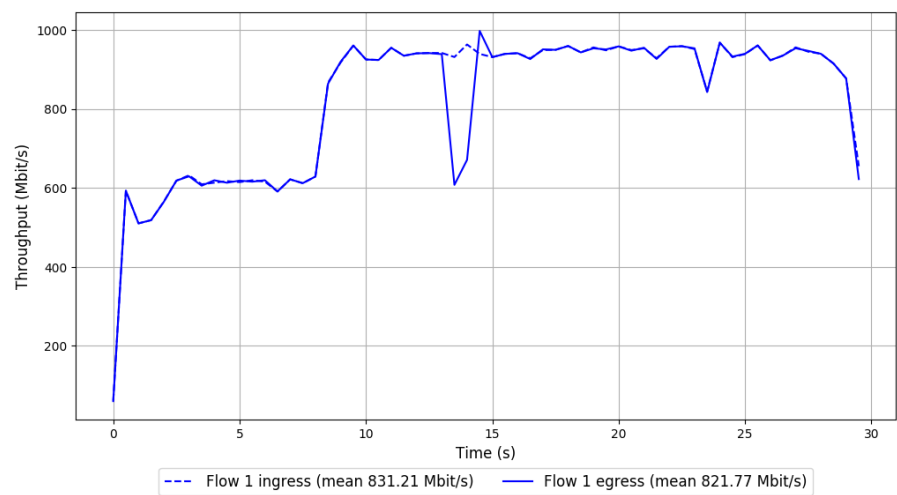


Run 7: Statistics of PCC

Start at: 2017-12-05 11:47:57
End at: 2017-12-05 11:48:27
Local clock offset: 1.83 ms
Remote clock offset: -1.648 ms

Below is generated by plot.py at 2017-12-05 17:01:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 821.77 Mbit/s
95th percentile per-packet one-way delay: 5.998 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 821.77 Mbit/s
95th percentile per-packet one-way delay: 5.998 ms
Loss rate: 1.20%

Run 7: Report of PCC — Data Link

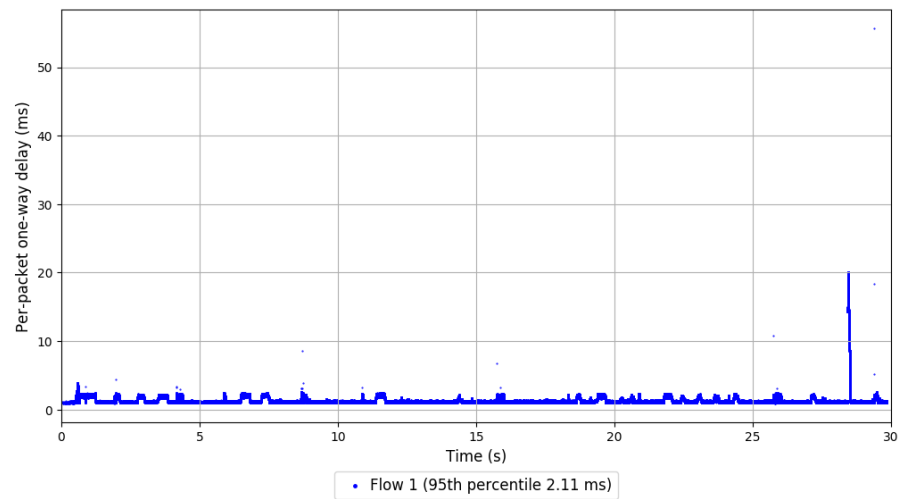
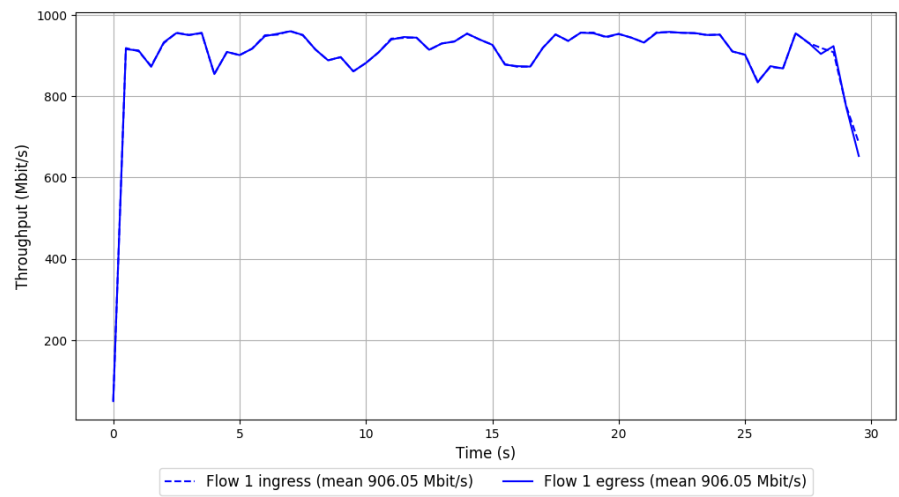


Run 8: Statistics of PCC

Start at: 2017-12-05 12:07:15
End at: 2017-12-05 12:07:45
Local clock offset: 1.454 ms
Remote clock offset: -1.566 ms

Below is generated by plot.py at 2017-12-05 17:03:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 906.05 Mbit/s
95th percentile per-packet one-way delay: 2.109 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 906.05 Mbit/s
95th percentile per-packet one-way delay: 2.109 ms
Loss rate: 0.07%

Run 8: Report of PCC — Data Link

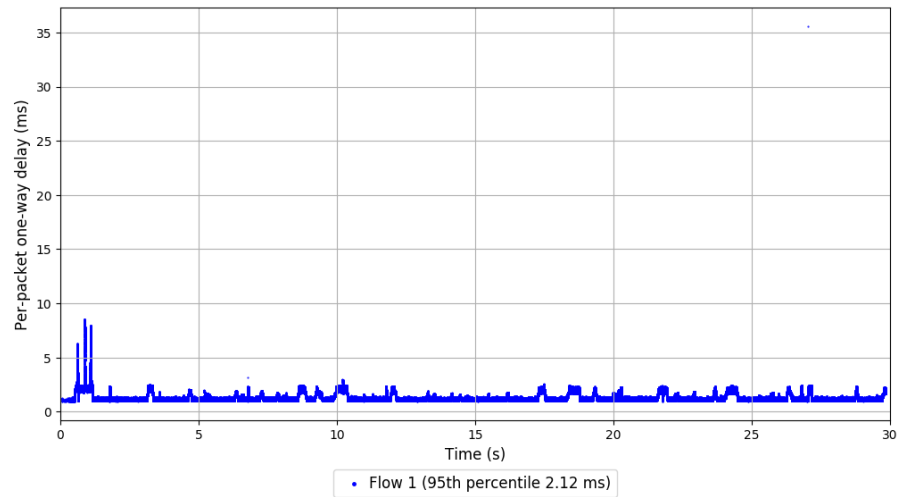
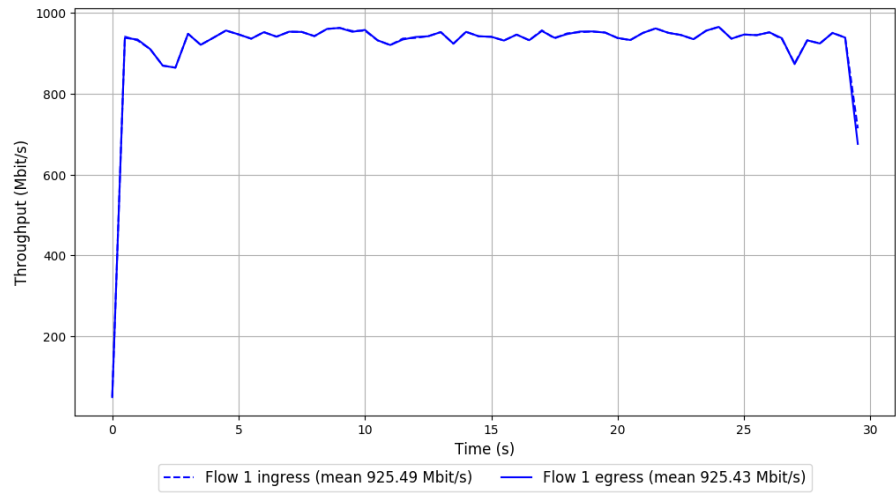


Run 9: Statistics of PCC

Start at: 2017-12-05 12:26:28
End at: 2017-12-05 12:26:58
Local clock offset: 1.173 ms
Remote clock offset: -1.666 ms

Below is generated by plot.py at 2017-12-05 17:11:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 925.43 Mbit/s
95th percentile per-packet one-way delay: 2.123 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 925.43 Mbit/s
95th percentile per-packet one-way delay: 2.123 ms
Loss rate: 0.07%

Run 9: Report of PCC — Data Link

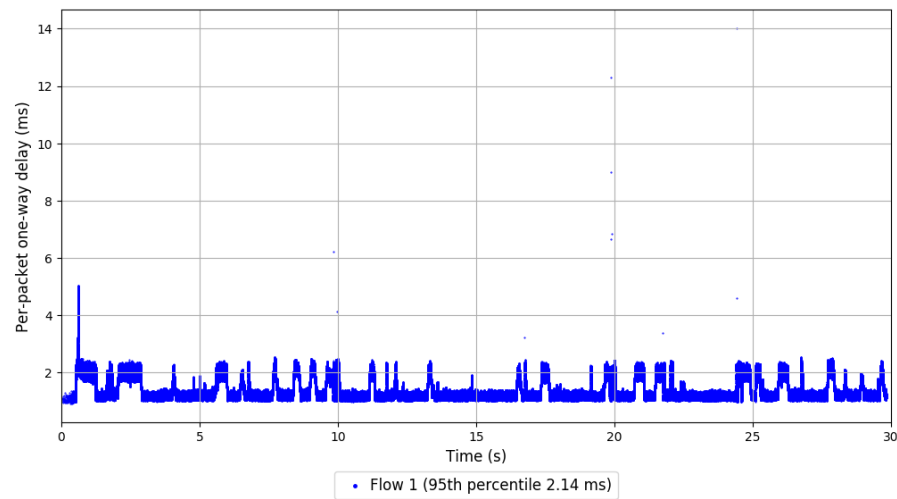
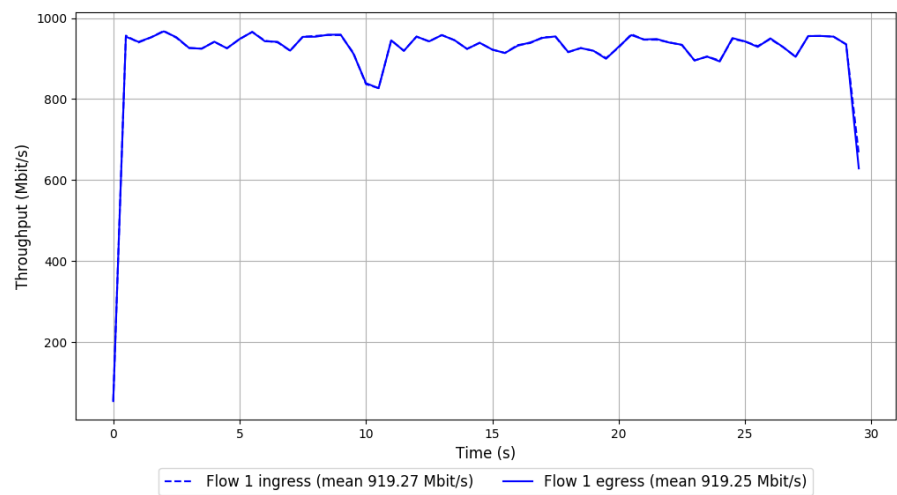


Run 10: Statistics of PCC

Start at: 2017-12-05 12:45:46
End at: 2017-12-05 12:46:16
Local clock offset: 1.07 ms
Remote clock offset: -1.802 ms

Below is generated by plot.py at 2017-12-05 17:12:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 919.25 Mbit/s
95th percentile per-packet one-way delay: 2.137 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 919.25 Mbit/s
95th percentile per-packet one-way delay: 2.137 ms
Loss rate: 0.07%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2017-12-05 10:03:04

End at: 2017-12-05 10:03:34

Local clock offset: 3.159 ms

Remote clock offset: -1.946 ms

Below is generated by plot.py at 2017-12-05 17:12:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.34 Mbit/s

95th percentile per-packet one-way delay: 1.113 ms

Loss rate: 0.07%

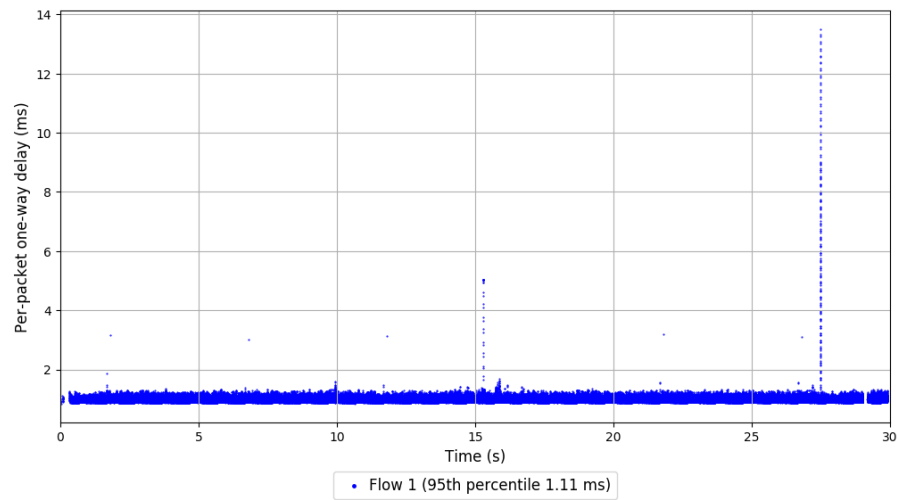
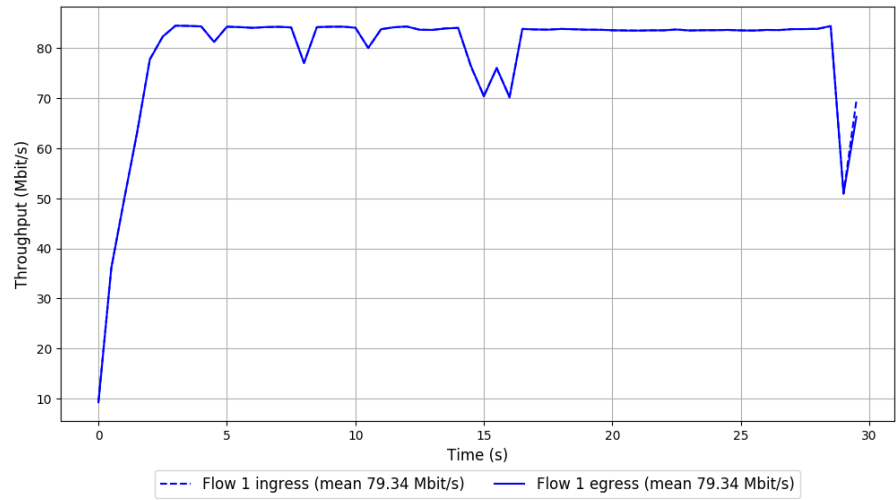
-- Flow 1:

Average throughput: 79.34 Mbit/s

95th percentile per-packet one-way delay: 1.113 ms

Loss rate: 0.07%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-12-05 10:22:04

End at: 2017-12-05 10:22:34

Local clock offset: 2.93 ms

Remote clock offset: -2.045 ms

Below is generated by plot.py at 2017-12-05 17:12:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.15 Mbit/s

95th percentile per-packet one-way delay: 1.191 ms

Loss rate: 0.07%

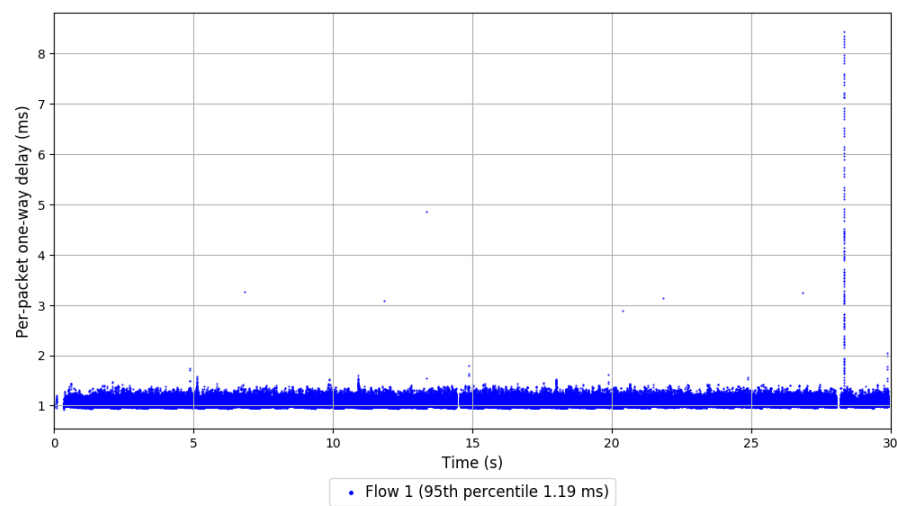
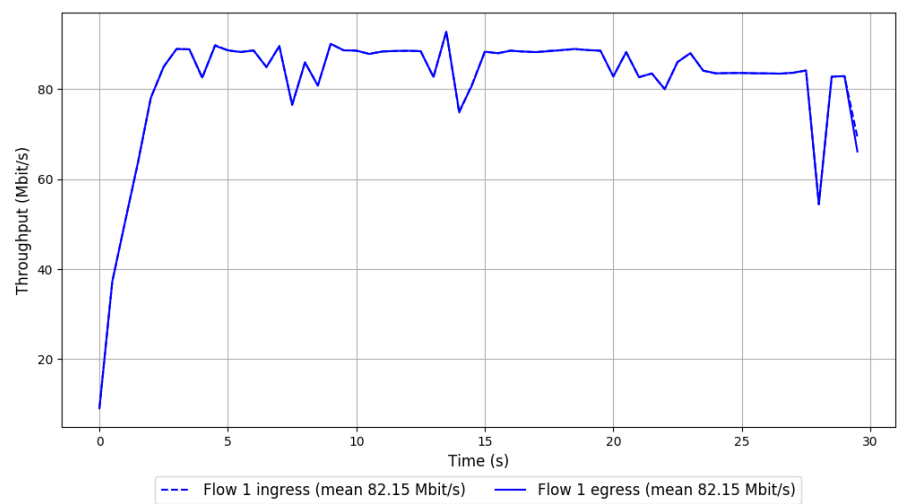
-- Flow 1:

Average throughput: 82.15 Mbit/s

95th percentile per-packet one-way delay: 1.191 ms

Loss rate: 0.07%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-12-05 10:41:09

End at: 2017-12-05 10:41:39

Local clock offset: 2.392 ms

Remote clock offset: -1.504 ms

Below is generated by plot.py at 2017-12-05 17:12:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.92 Mbit/s

95th percentile per-packet one-way delay: 1.135 ms

Loss rate: 0.07%

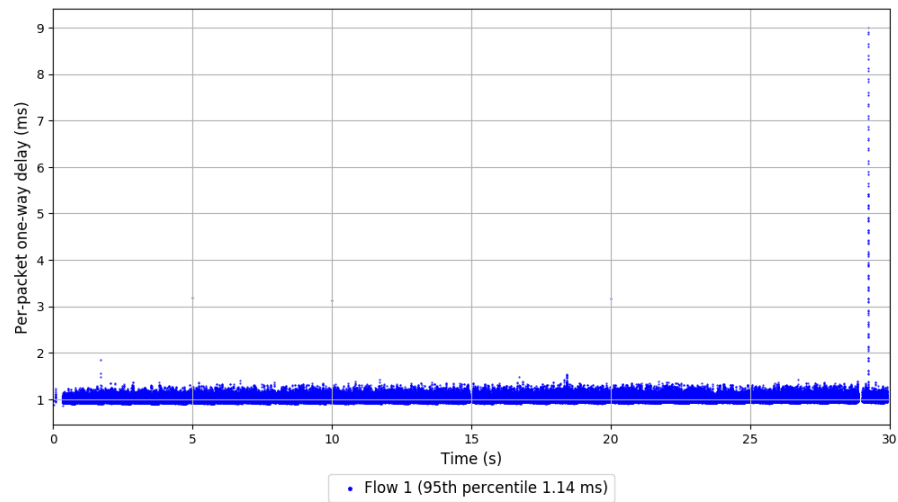
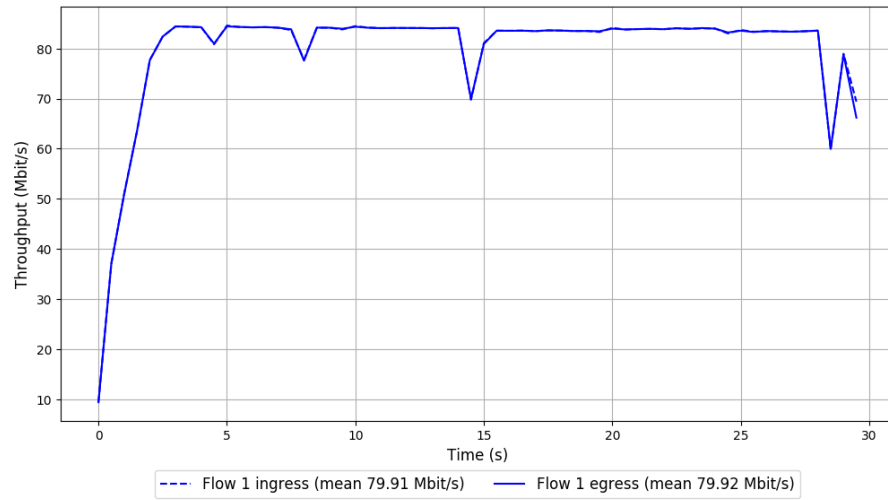
-- Flow 1:

Average throughput: 79.92 Mbit/s

95th percentile per-packet one-way delay: 1.135 ms

Loss rate: 0.07%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-12-05 11:00:19

End at: 2017-12-05 11:00:49

Local clock offset: 2.102 ms

Remote clock offset: -1.631 ms

Below is generated by plot.py at 2017-12-05 17:12:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.90 Mbit/s

95th percentile per-packet one-way delay: 1.137 ms

Loss rate: 0.18%

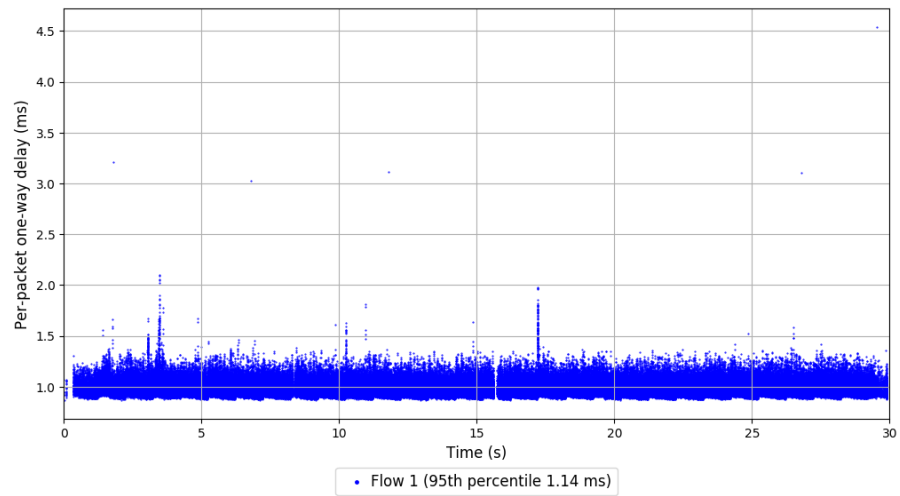
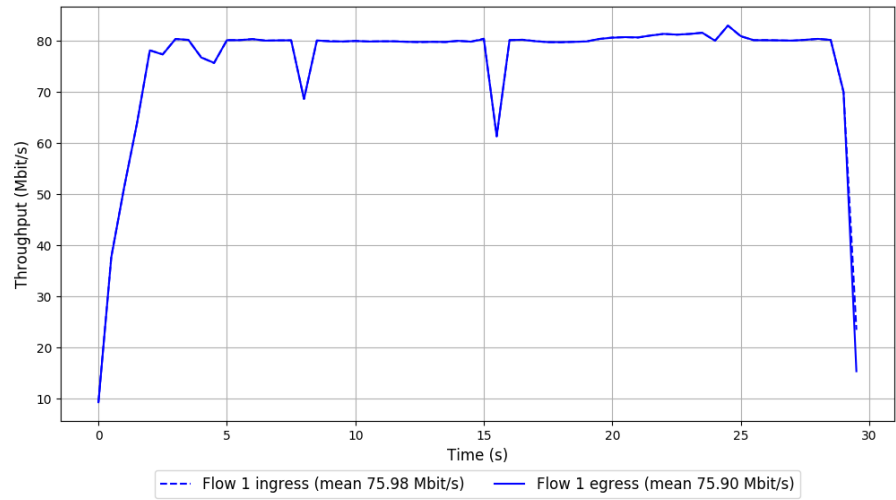
-- Flow 1:

Average throughput: 75.90 Mbit/s

95th percentile per-packet one-way delay: 1.137 ms

Loss rate: 0.18%

Run 4: Report of QUIC Cubic — Data Link

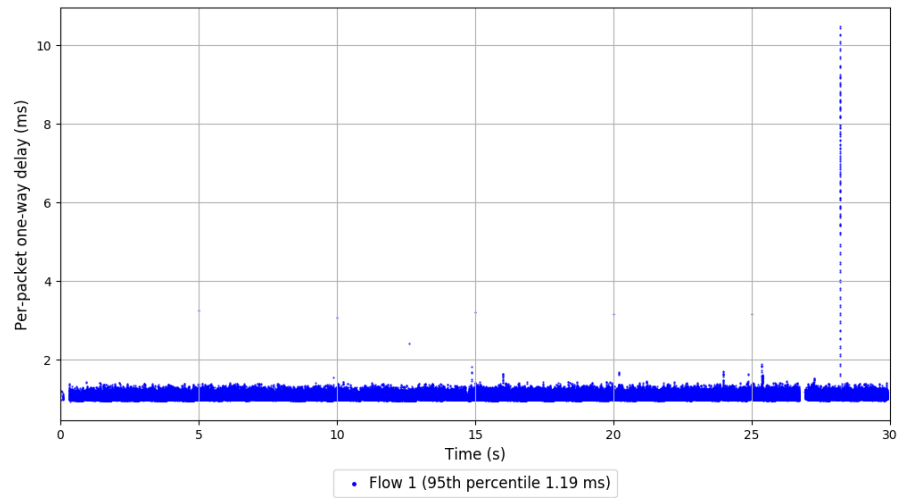
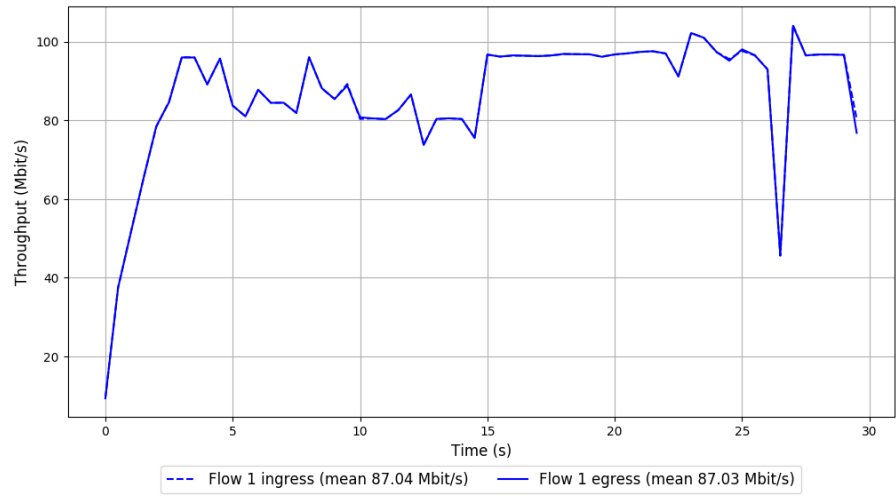


Run 5: Statistics of QUIC Cubic

Start at: 2017-12-05 11:19:30
End at: 2017-12-05 11:20:00
Local clock offset: 2.106 ms
Remote clock offset: -1.523 ms

Below is generated by plot.py at 2017-12-05 17:12:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.03 Mbit/s
95th percentile per-packet one-way delay: 1.190 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 87.03 Mbit/s
95th percentile per-packet one-way delay: 1.190 ms
Loss rate: 0.07%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-12-05 11:38:42

End at: 2017-12-05 11:39:12

Local clock offset: 2.045 ms

Remote clock offset: -1.665 ms

Below is generated by plot.py at 2017-12-05 17:12:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.78 Mbit/s

95th percentile per-packet one-way delay: 1.212 ms

Loss rate: 0.07%

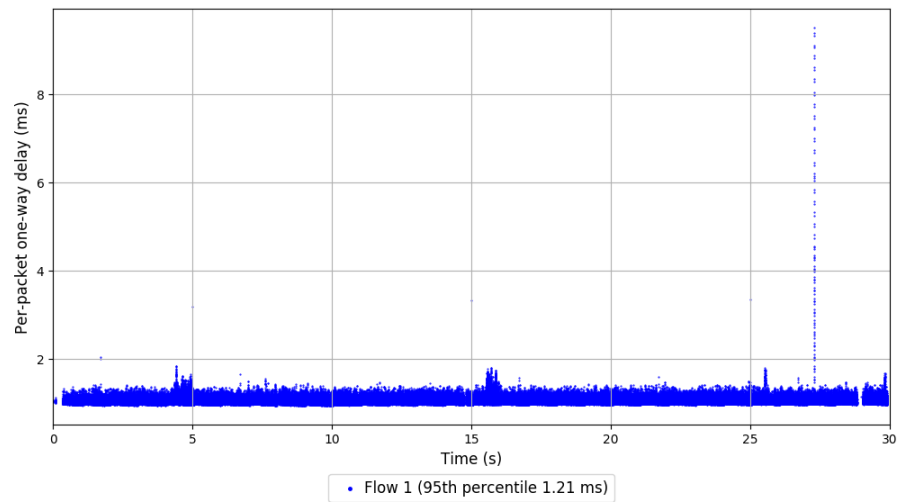
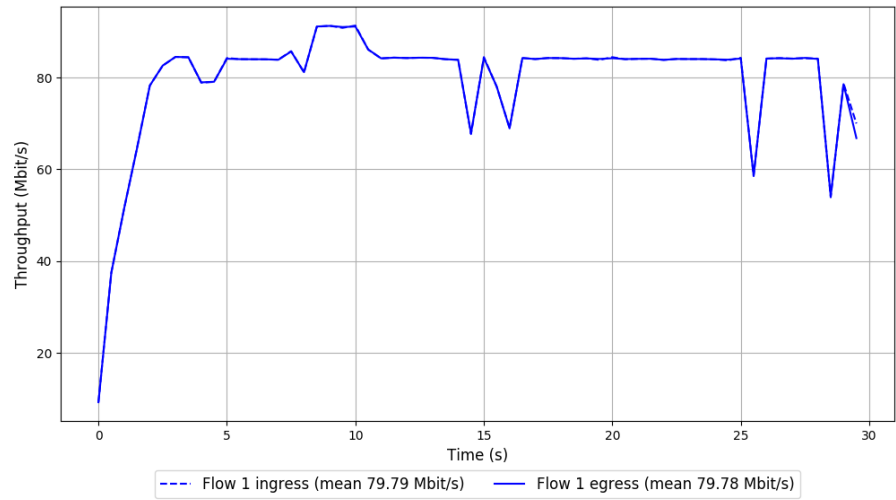
-- Flow 1:

Average throughput: 79.78 Mbit/s

95th percentile per-packet one-way delay: 1.212 ms

Loss rate: 0.07%

Run 6: Report of QUIC Cubic — Data Link

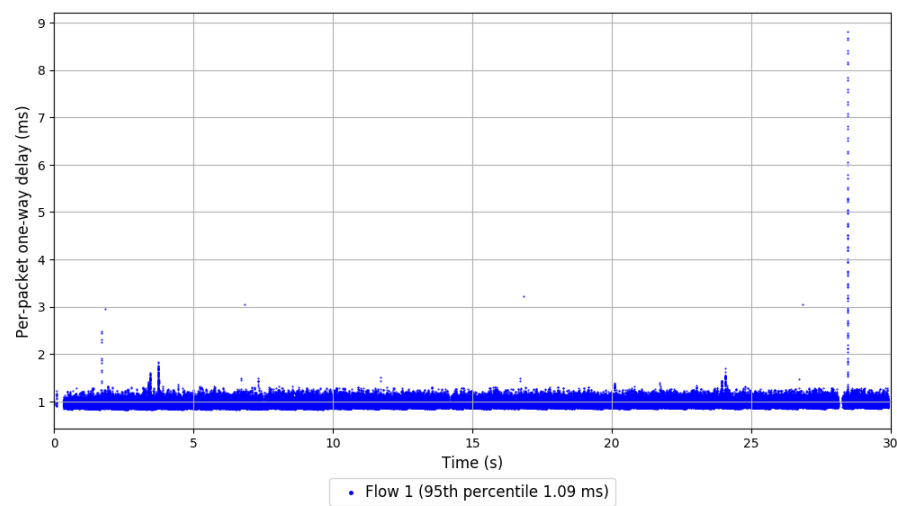
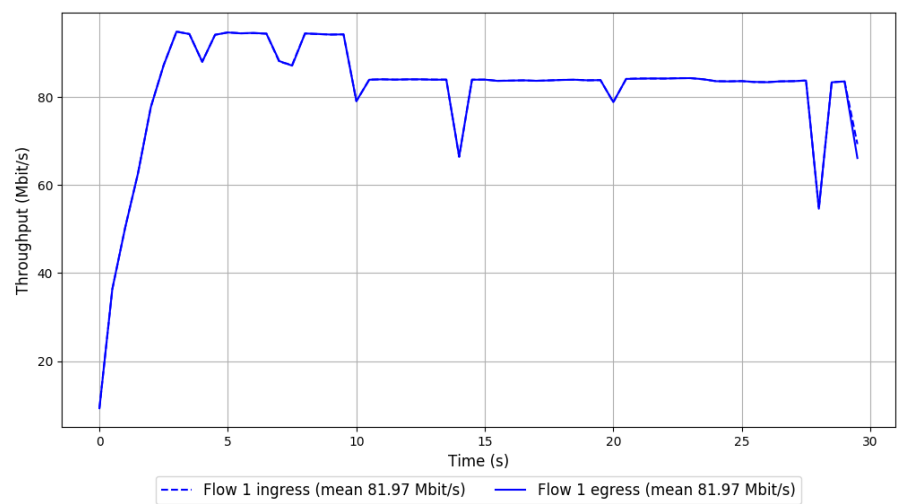


Run 7: Statistics of QUIC Cubic

Start at: 2017-12-05 11:58:01
End at: 2017-12-05 11:58:31
Local clock offset: 1.637 ms
Remote clock offset: -1.516 ms

Below is generated by plot.py at 2017-12-05 17:12:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 81.97 Mbit/s
95th percentile per-packet one-way delay: 1.090 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 81.97 Mbit/s
95th percentile per-packet one-way delay: 1.090 ms
Loss rate: 0.07%

Run 7: Report of QUIC Cubic — Data Link

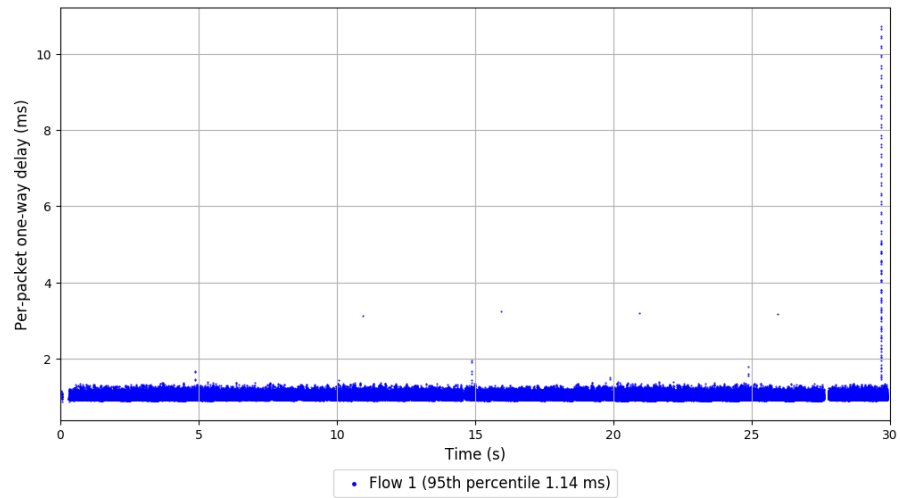
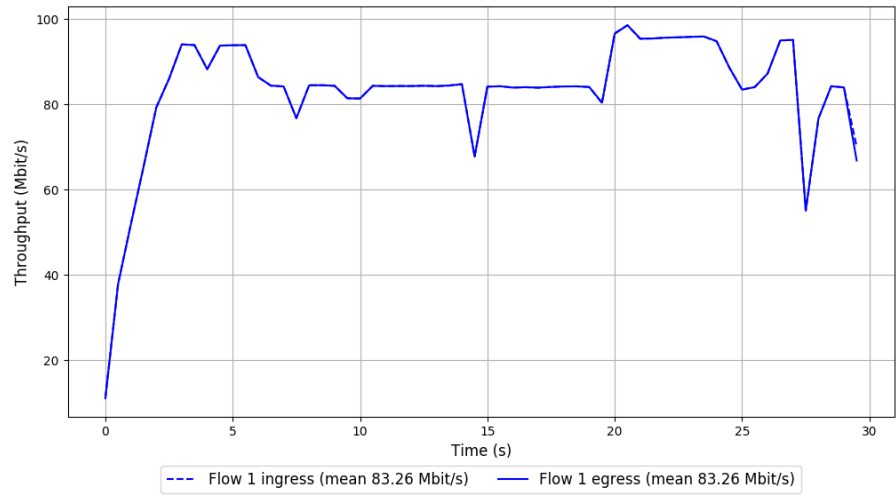


Run 8: Statistics of QUIC Cubic

Start at: 2017-12-05 12:17:21
End at: 2017-12-05 12:17:51
Local clock offset: 1.267 ms
Remote clock offset: -1.495 ms

Below is generated by plot.py at 2017-12-05 17:12:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 83.26 Mbit/s
95th percentile per-packet one-way delay: 1.143 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 83.26 Mbit/s
95th percentile per-packet one-way delay: 1.143 ms
Loss rate: 0.07%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-12-05 12:36:33

End at: 2017-12-05 12:37:03

Local clock offset: 1.068 ms

Remote clock offset: -1.632 ms

Below is generated by plot.py at 2017-12-05 17:12:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.31 Mbit/s

95th percentile per-packet one-way delay: 1.067 ms

Loss rate: 0.08%

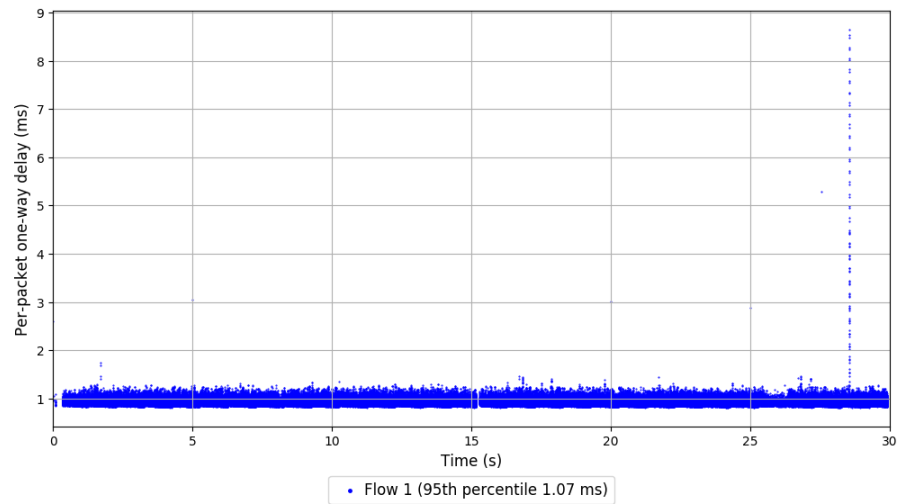
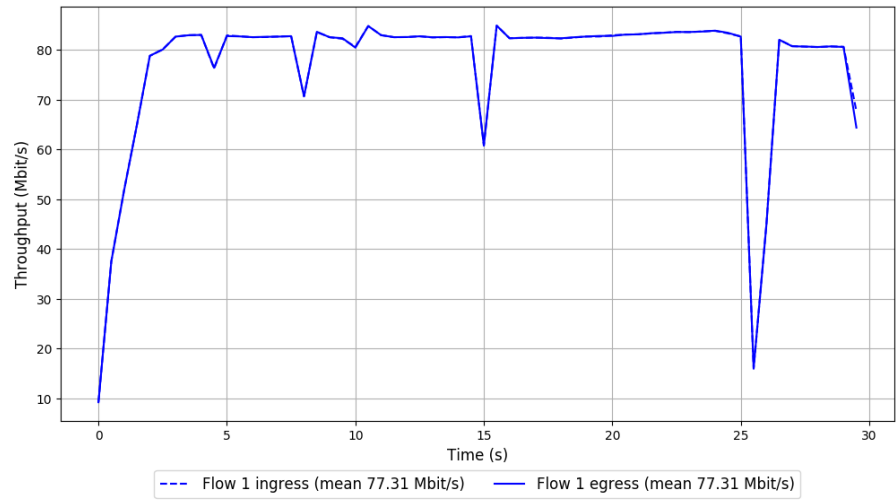
-- Flow 1:

Average throughput: 77.31 Mbit/s

95th percentile per-packet one-way delay: 1.067 ms

Loss rate: 0.08%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-12-05 12:55:49

End at: 2017-12-05 12:56:19

Local clock offset: 0.954 ms

Remote clock offset: -1.932 ms

Below is generated by plot.py at 2017-12-05 17:12:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.57 Mbit/s

95th percentile per-packet one-way delay: 1.176 ms

Loss rate: 0.08%

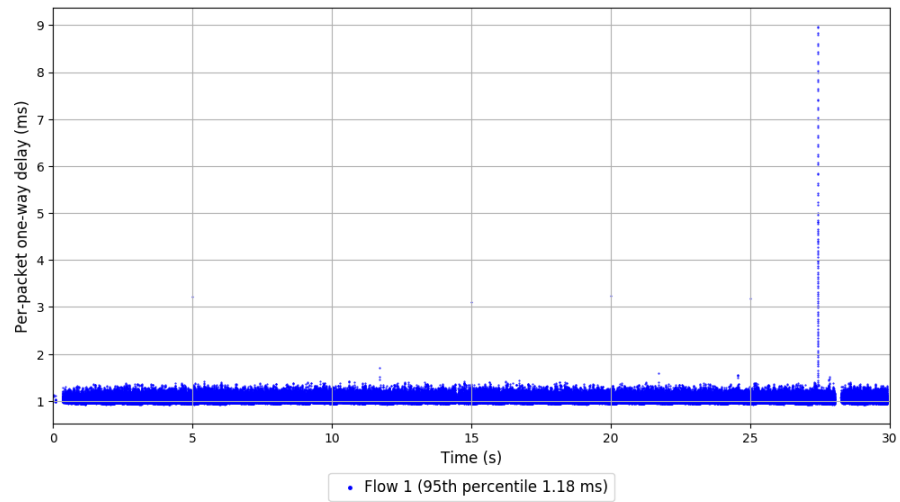
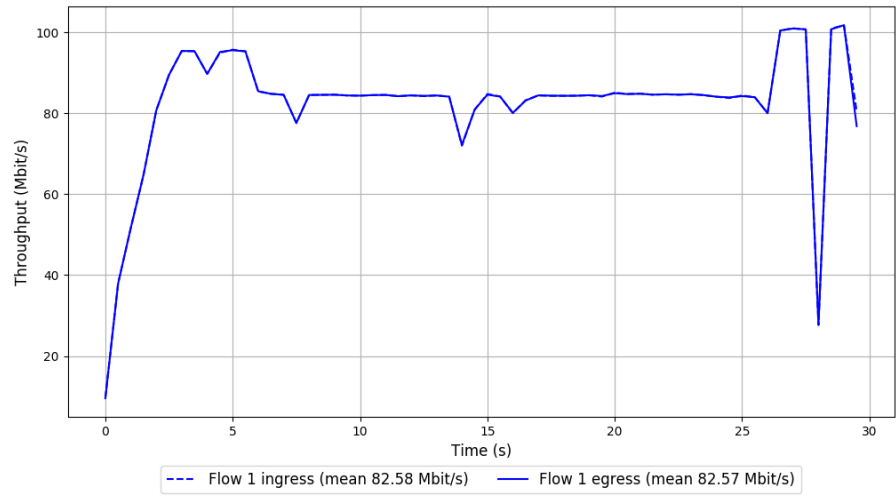
-- Flow 1:

Average throughput: 82.57 Mbit/s

95th percentile per-packet one-way delay: 1.176 ms

Loss rate: 0.08%

Run 10: Report of QUIC Cubic — Data Link

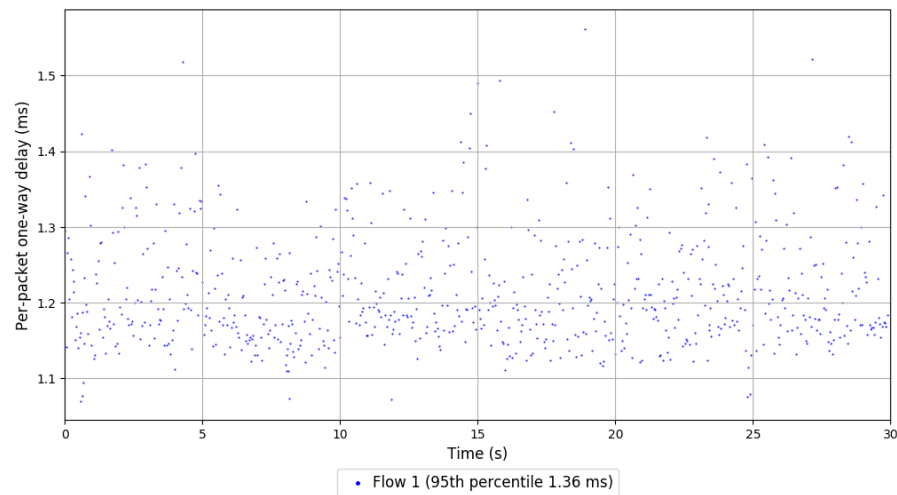
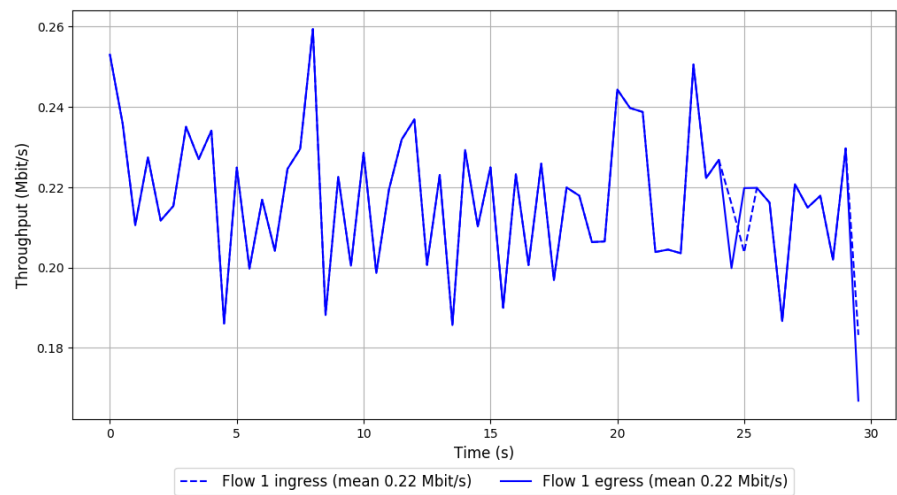


Run 1: Statistics of SCReAM

Start at: 2017-12-05 09:58:42
End at: 2017-12-05 09:59:13
Local clock offset: 3.258 ms
Remote clock offset: -2.063 ms

Below is generated by plot.py at 2017-12-05 17:12:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.357 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.357 ms
Loss rate: 0.13%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

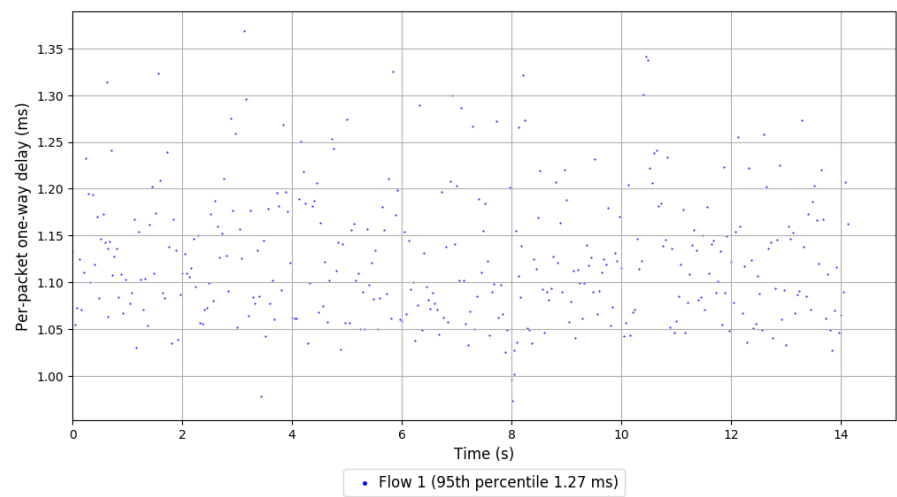
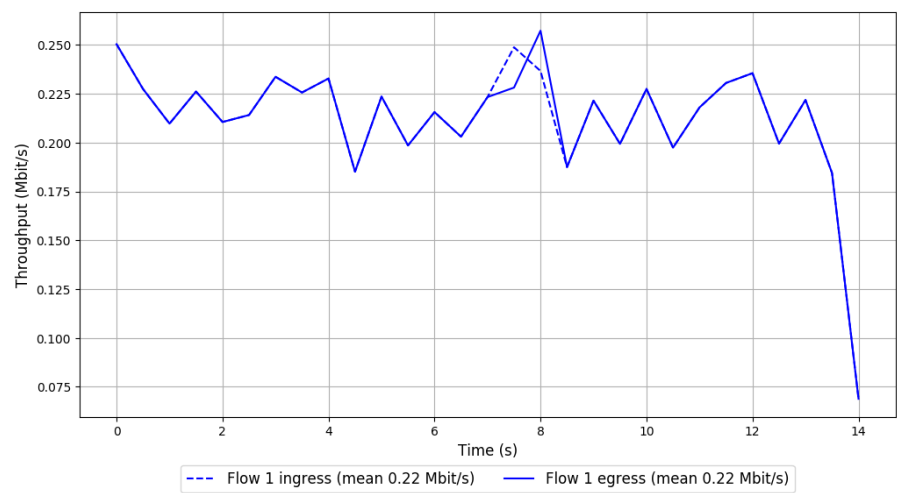
Start at: 2017-12-05 10:17:46

End at: 2017-12-05 10:18:16

Local clock offset: 2.961 ms

Remote clock offset: -1.997 ms

Run 2: Report of SReAM — Data Link

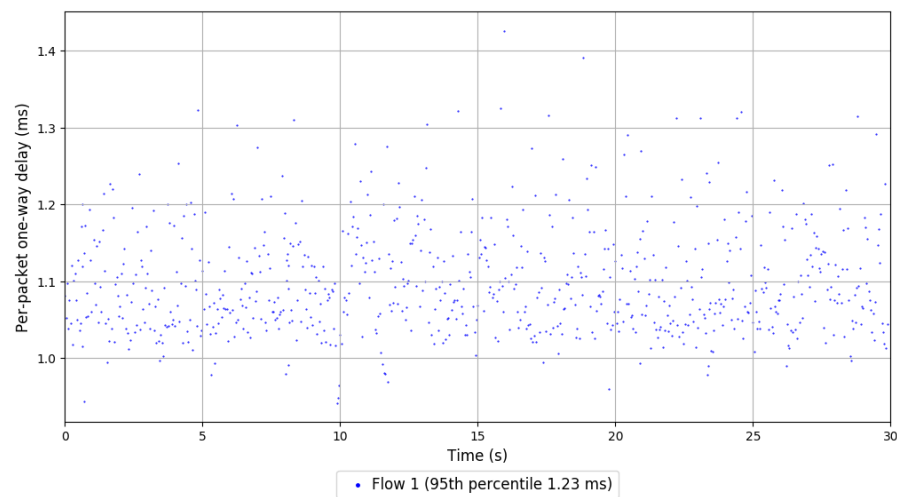
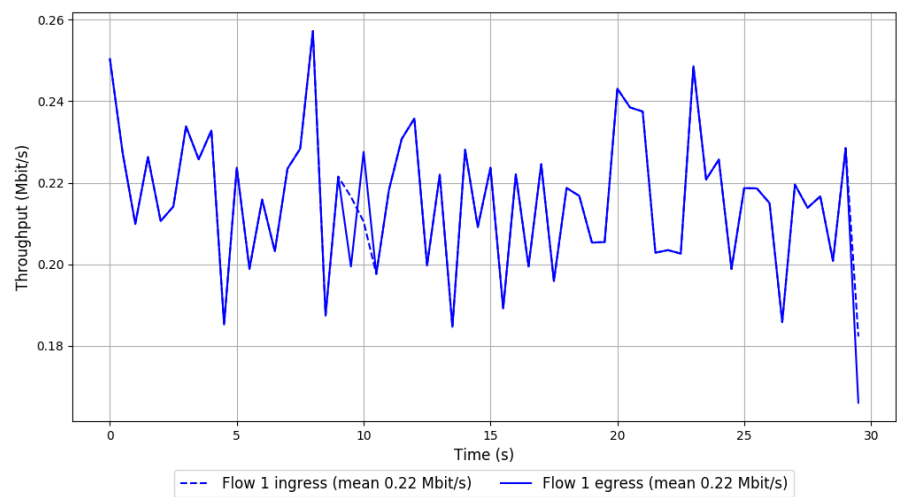


Run 3: Statistics of SCReAM

Start at: 2017-12-05 10:36:50
End at: 2017-12-05 10:37:20
Local clock offset: 2.478 ms
Remote clock offset: -1.632 ms

Below is generated by plot.py at 2017-12-05 17:12:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.229 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.229 ms
Loss rate: 0.13%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

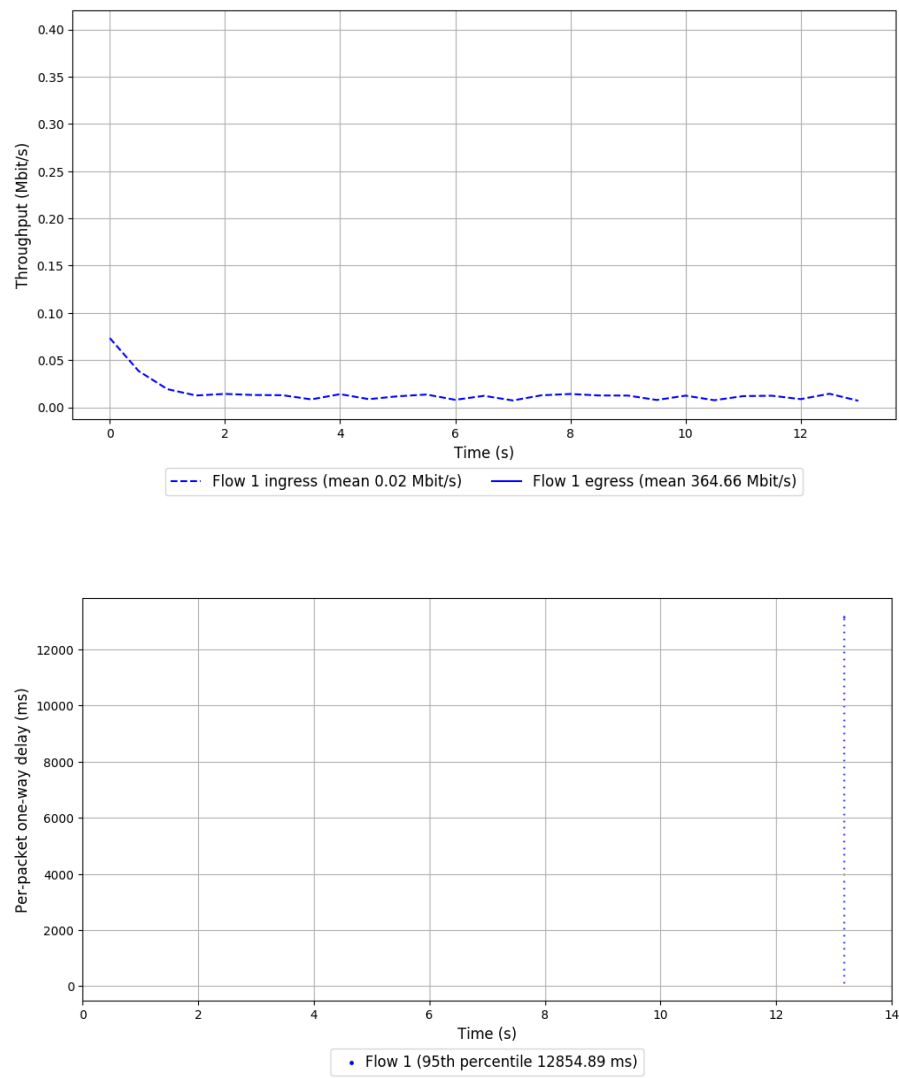
Start at: 2017-12-05 10:55:58

End at: 2017-12-05 10:56:28

Local clock offset: 2.084 ms

Remote clock offset: -1.507 ms

Run 4: Report of SReAM — Data Link

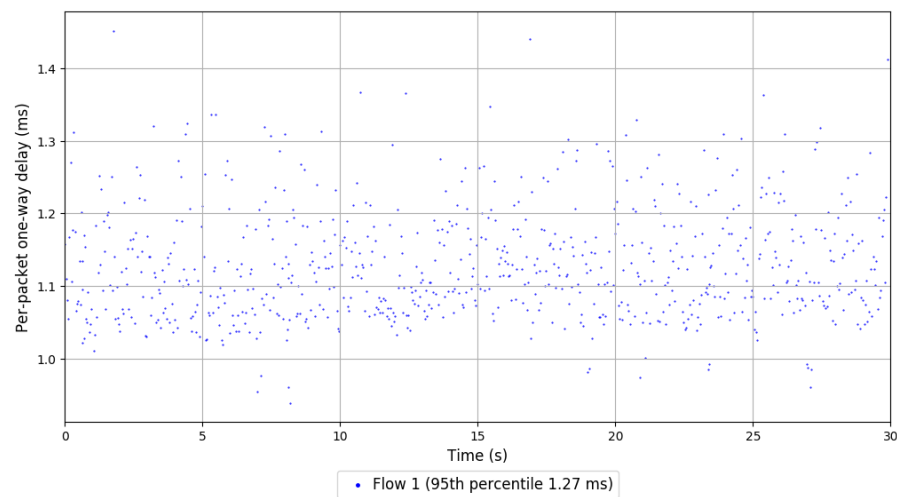
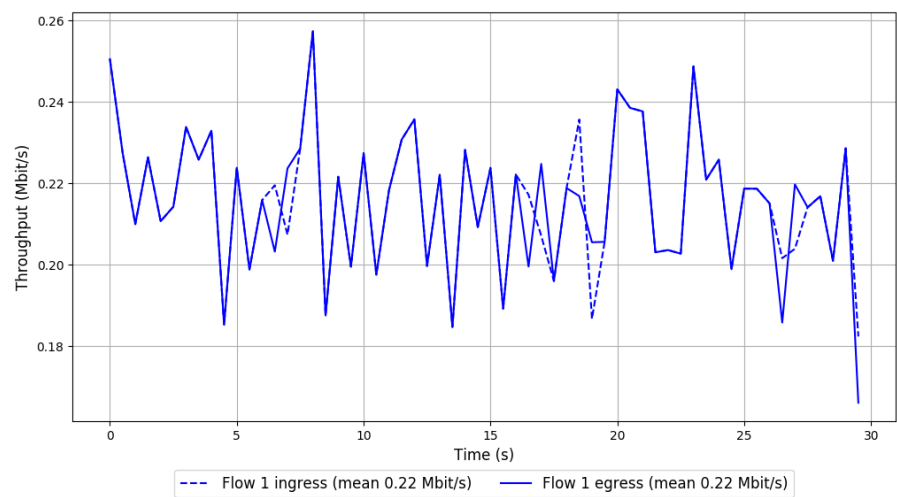


Run 5: Statistics of SCReAM

Start at: 2017-12-05 11:15:11
End at: 2017-12-05 11:15:41
Local clock offset: 2.046 ms
Remote clock offset: -1.656 ms

Below is generated by plot.py at 2017-12-05 17:12:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.273 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.273 ms
Loss rate: 0.13%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

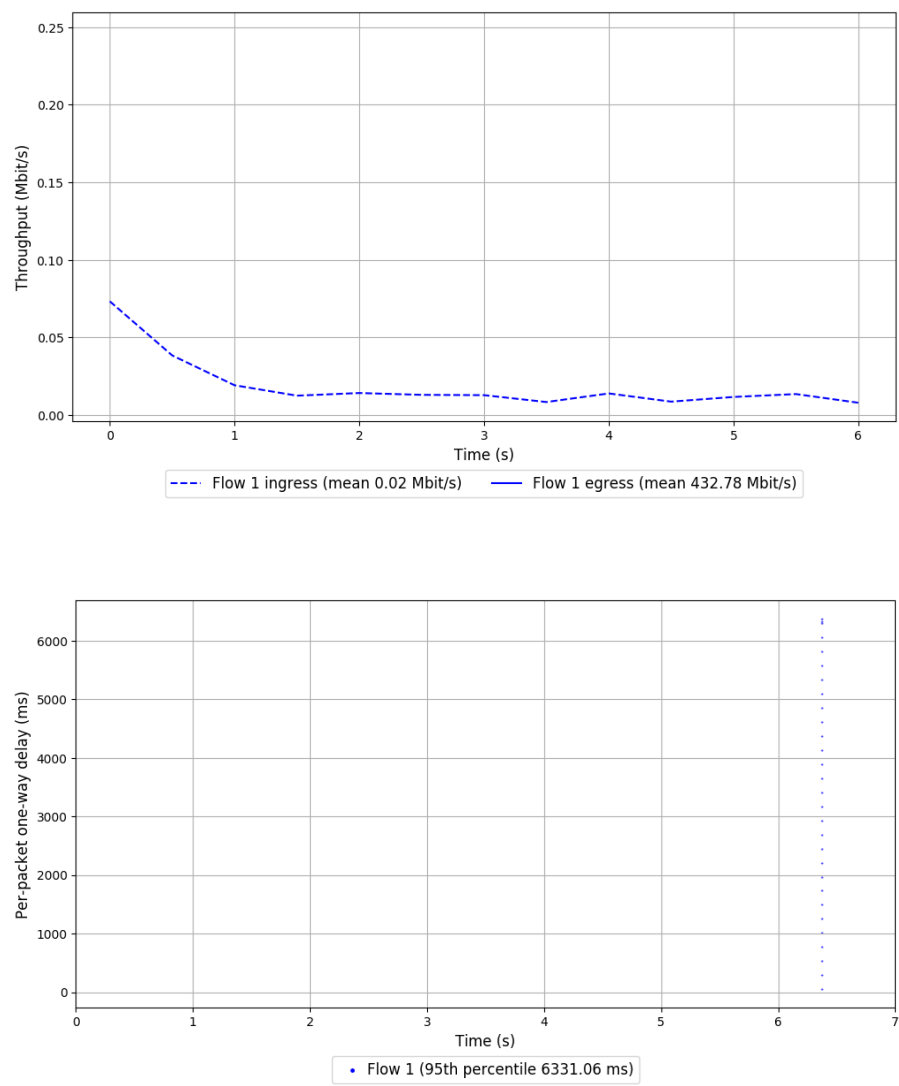
Start at: 2017-12-05 11:34:23

End at: 2017-12-05 11:34:53

Local clock offset: 2.164 ms

Remote clock offset: -1.634 ms

Run 6: Report of SReAM — Data Link

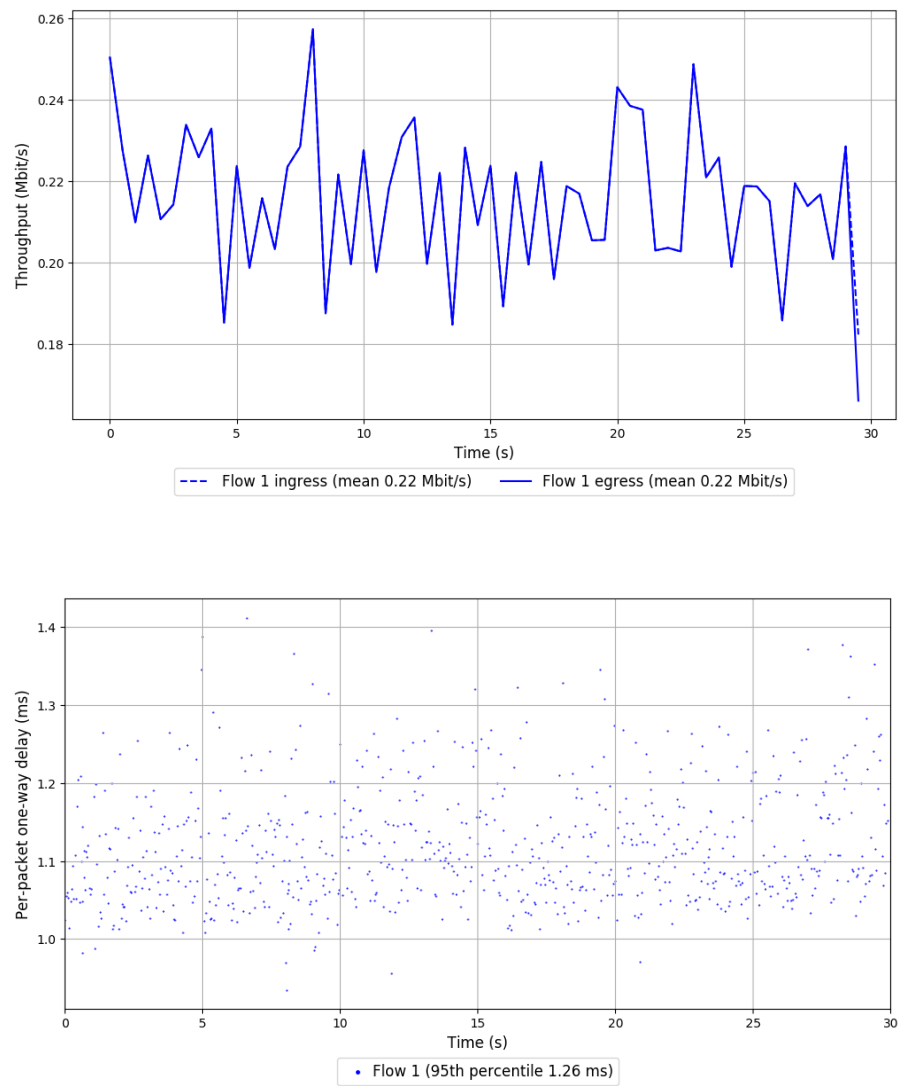


Run 7: Statistics of SCReAM

Start at: 2017-12-05 11:53:41
End at: 2017-12-05 11:54:11
Local clock offset: 1.71 ms
Remote clock offset: -1.596 ms

Below is generated by plot.py at 2017-12-05 17:12:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.257 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.257 ms
Loss rate: 0.13%

Run 7: Report of SReAM — Data Link

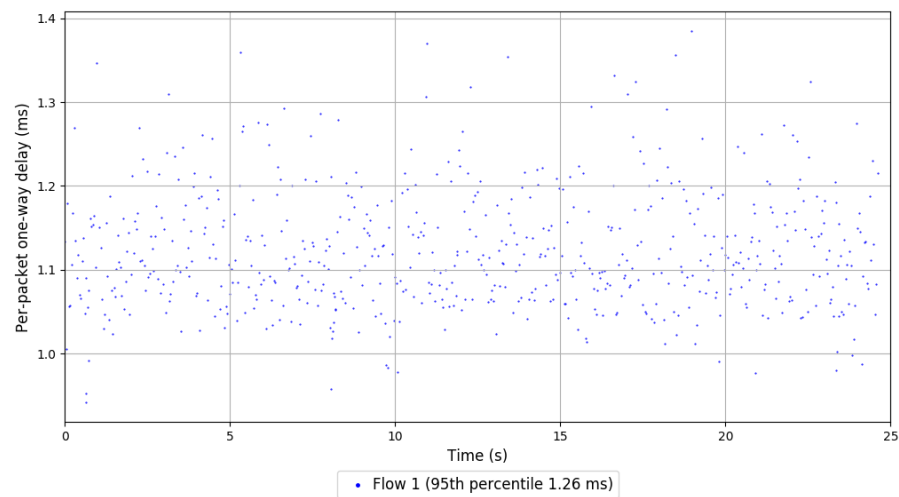
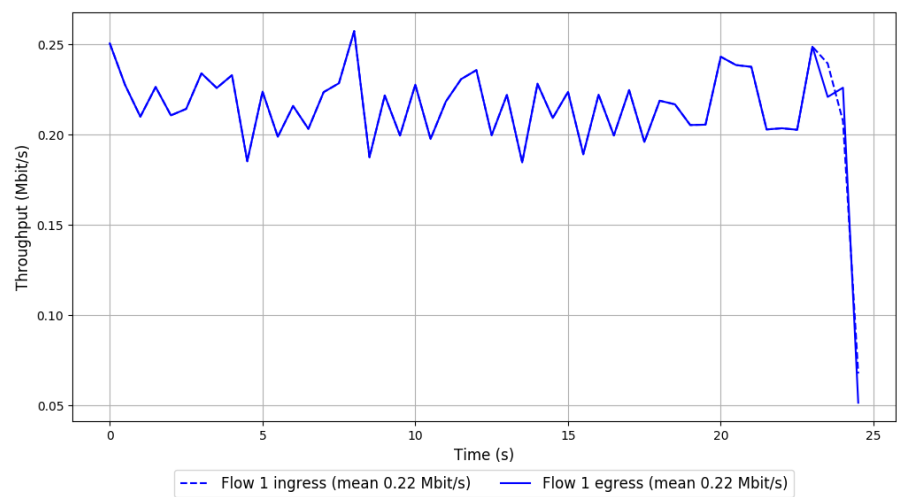


Run 8: Statistics of SCReAM

Start at: 2017-12-05 12:13:01
End at: 2017-12-05 12:13:31
Local clock offset: 1.36 ms
Remote clock offset: -1.435 ms

Below is generated by plot.py at 2017-12-05 17:12:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.259 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.259 ms
Loss rate: 0.15%

Run 8: Report of SReAM — Data Link

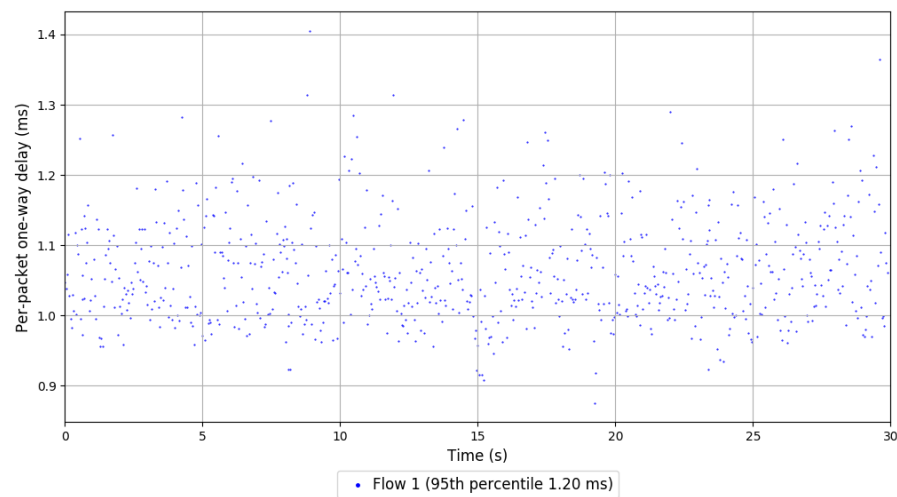
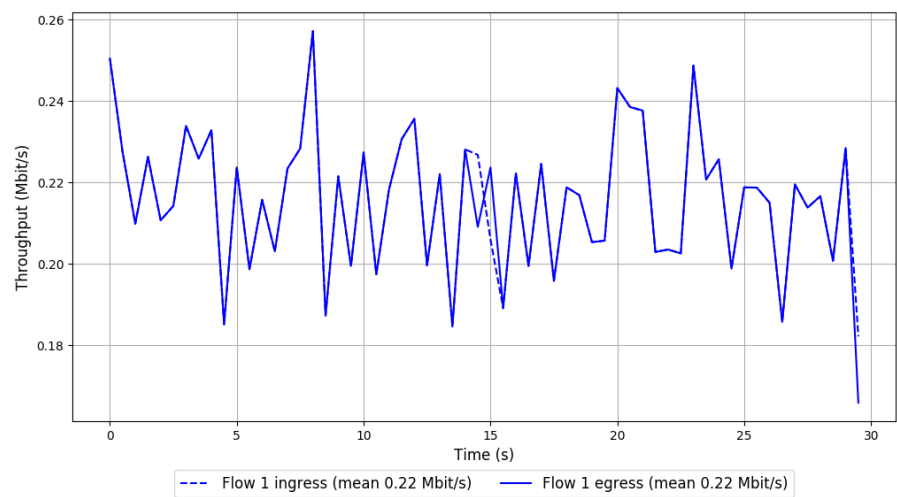


Run 9: Statistics of SCReAM

Start at: 2017-12-05 12:32:12
End at: 2017-12-05 12:32:42
Local clock offset: 1.1 ms
Remote clock offset: -1.586 ms

Below is generated by plot.py at 2017-12-05 17:12:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.200 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.200 ms
Loss rate: 0.13%

Run 9: Report of SReAM — Data Link

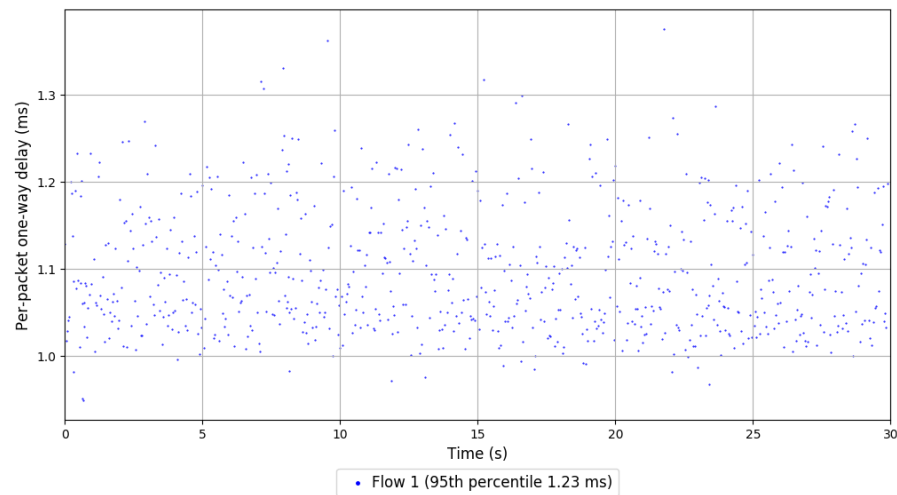
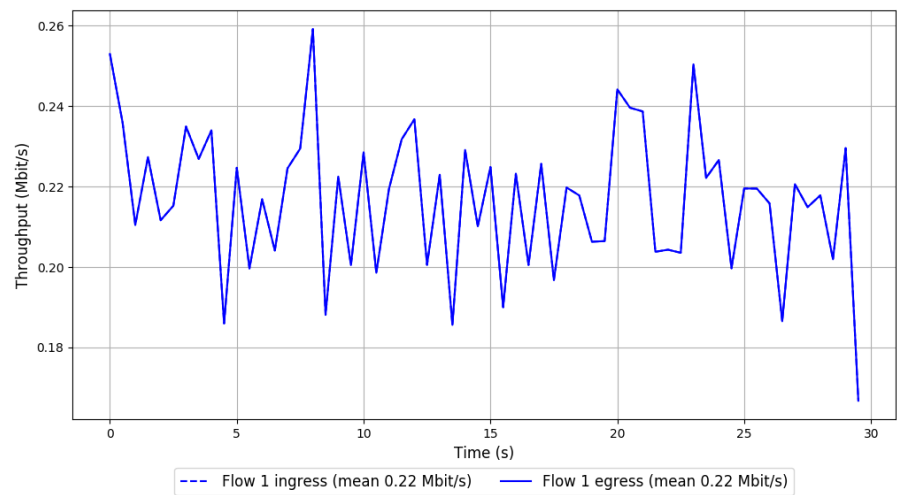


Run 10: Statistics of SCReAM

Start at: 2017-12-05 12:51:29
End at: 2017-12-05 12:51:59
Local clock offset: 1.051 ms
Remote clock offset: -1.722 ms

Below is generated by plot.py at 2017-12-05 17:12:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.233 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.233 ms
Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

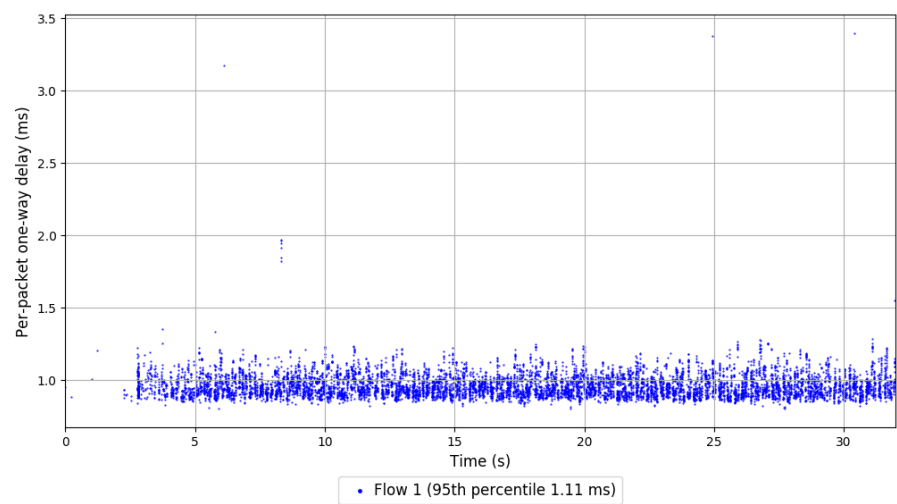
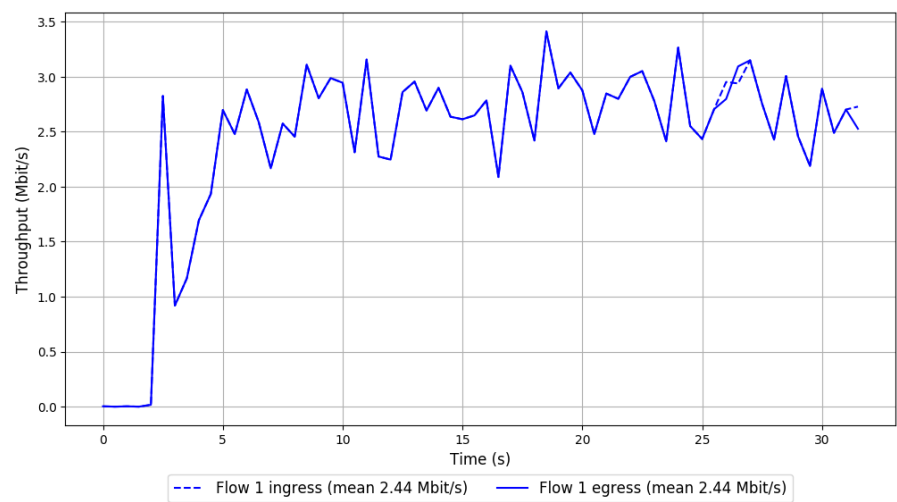


Run 1: Statistics of WebRTC media

Start at: 2017-12-05 09:51:48
End at: 2017-12-05 09:52:18
Local clock offset: 3.146 ms
Remote clock offset: -1.957 ms

Below is generated by plot.py at 2017-12-05 17:12:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.44 Mbit/s
95th percentile per-packet one-way delay: 1.110 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 2.44 Mbit/s
95th percentile per-packet one-way delay: 1.110 ms
Loss rate: 0.13%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-12-05 10:10:57

End at: 2017-12-05 10:11:27

Local clock offset: 3.196 ms

Remote clock offset: -1.88 ms

Below is generated by plot.py at 2017-12-05 17:12:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.41 Mbit/s

95th percentile per-packet one-way delay: 1.204 ms

Loss rate: 0.00%

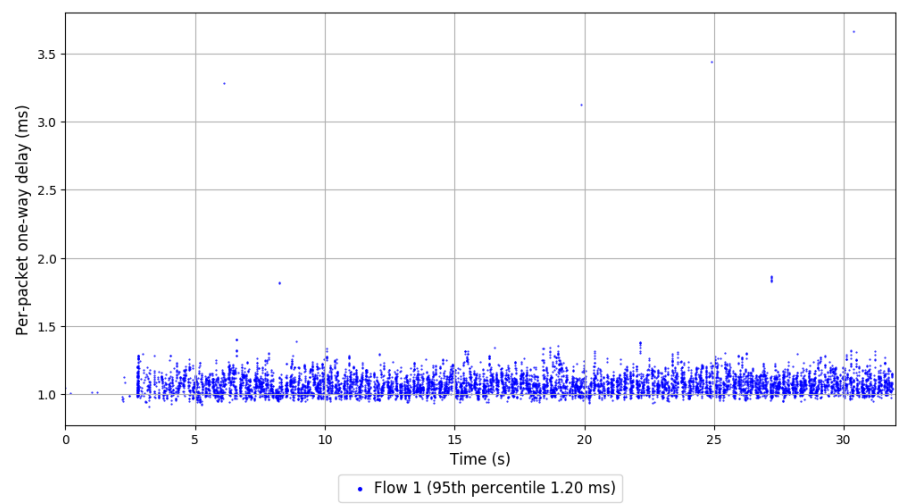
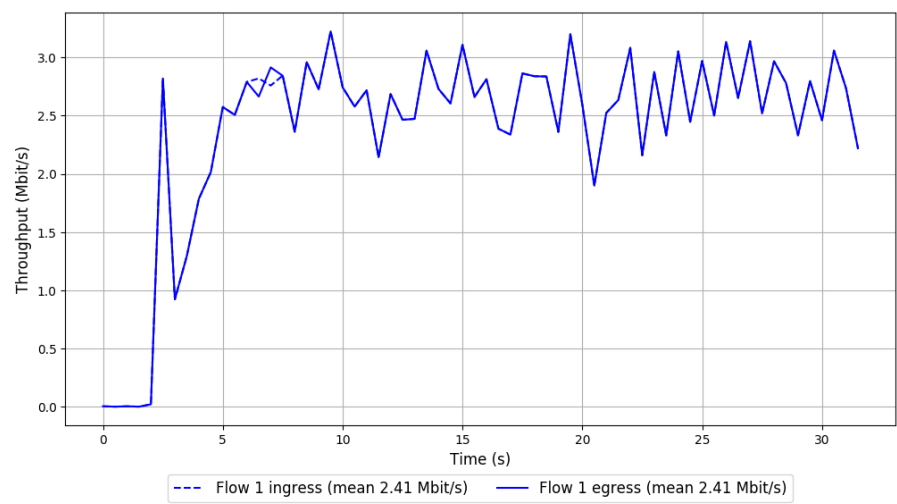
-- Flow 1:

Average throughput: 2.41 Mbit/s

95th percentile per-packet one-way delay: 1.204 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

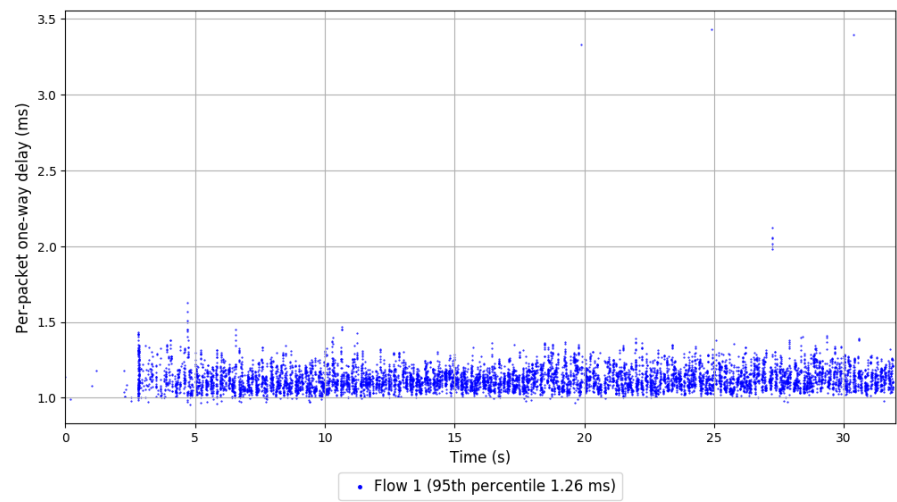
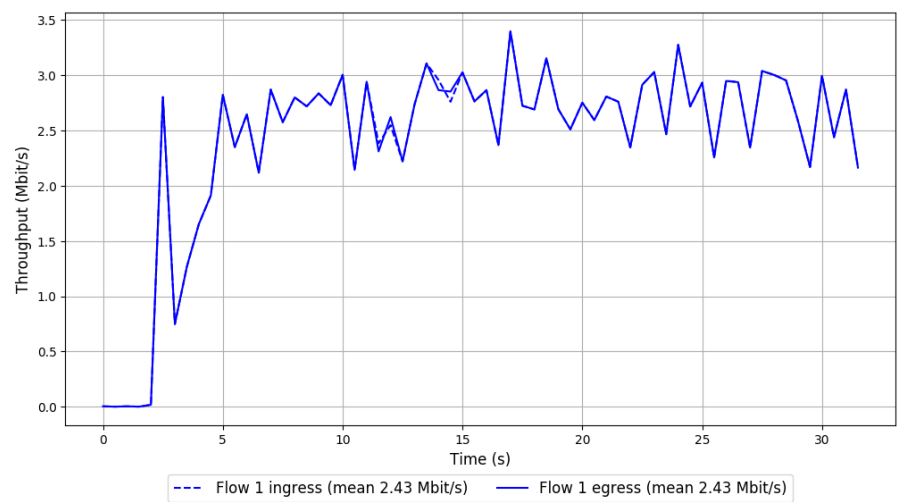


Run 3: Statistics of WebRTC media

Start at: 2017-12-05 10:29:58
End at: 2017-12-05 10:30:28
Local clock offset: 2.785 ms
Remote clock offset: -1.832 ms

Below is generated by plot.py at 2017-12-05 17:12:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 1.262 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 1.262 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

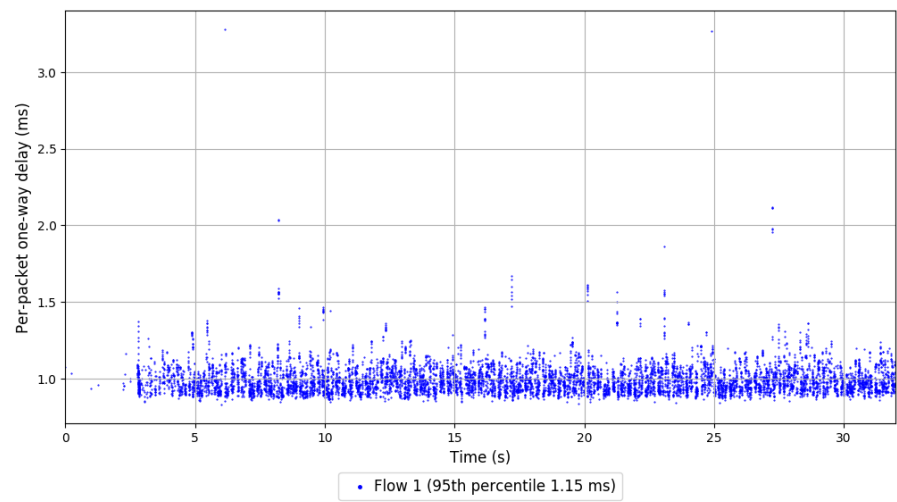
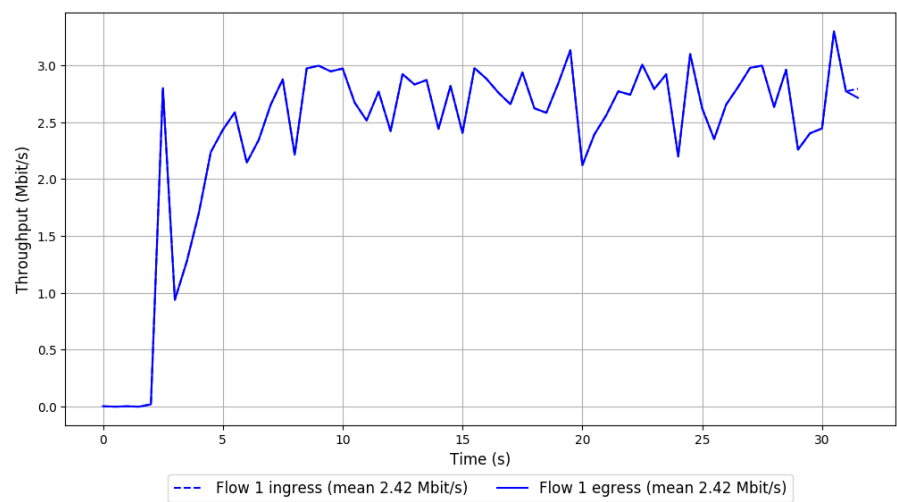


Run 4: Statistics of WebRTC media

Start at: 2017-12-05 10:49:06
End at: 2017-12-05 10:49:36
Local clock offset: 2.176 ms
Remote clock offset: -1.494 ms

Below is generated by plot.py at 2017-12-05 17:12:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 1.153 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 1.153 ms
Loss rate: 0.05%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-12-05 11:08:18

End at: 2017-12-05 11:08:48

Local clock offset: 2.045 ms

Remote clock offset: -1.79 ms

Below is generated by plot.py at 2017-12-05 17:12:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 1.164 ms

Loss rate: 0.00%

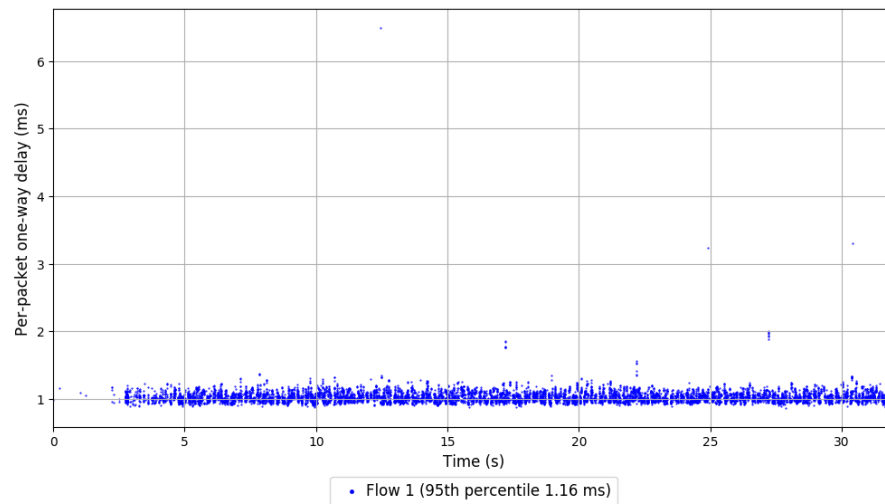
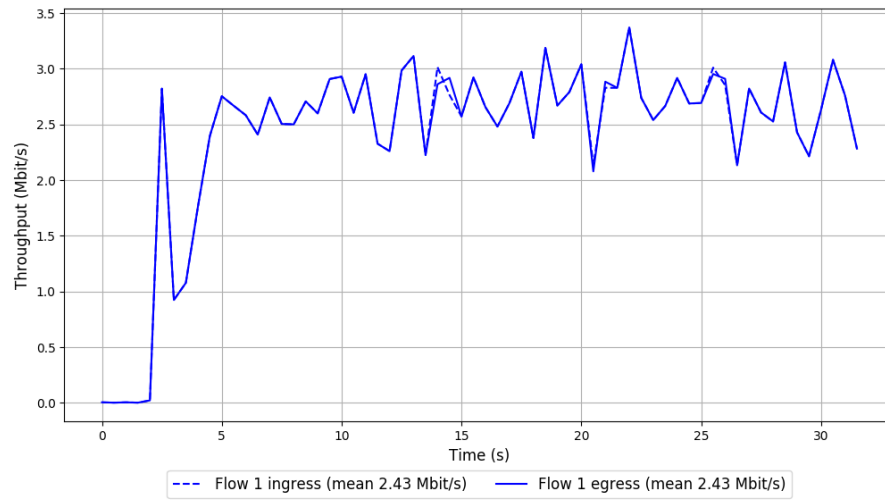
-- Flow 1:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 1.164 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

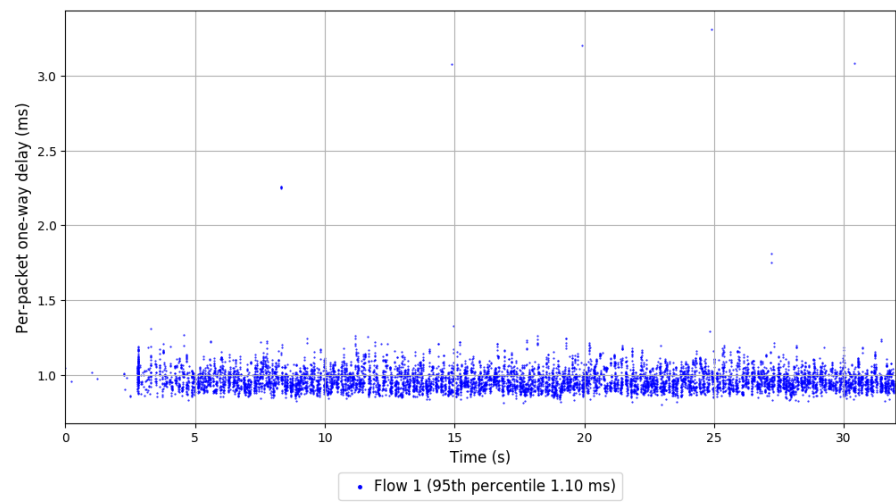
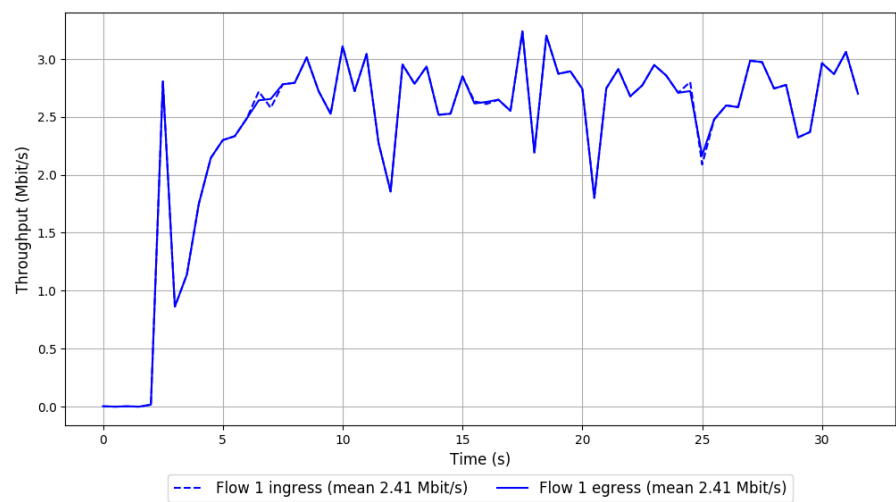


Run 6: Statistics of WebRTC media

Start at: 2017-12-05 11:27:25
End at: 2017-12-05 11:27:55
Local clock offset: 2.017 ms
Remote clock offset: -1.542 ms

Below is generated by plot.py at 2017-12-05 17:12:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 1.098 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 1.098 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

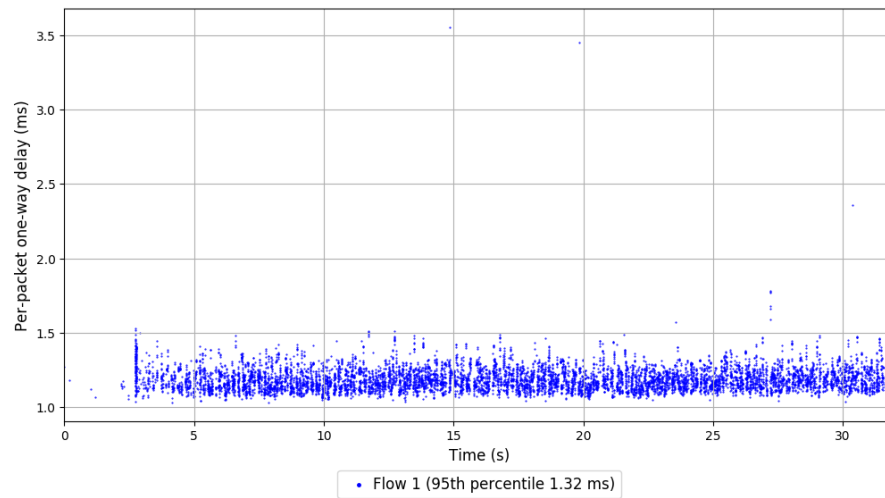
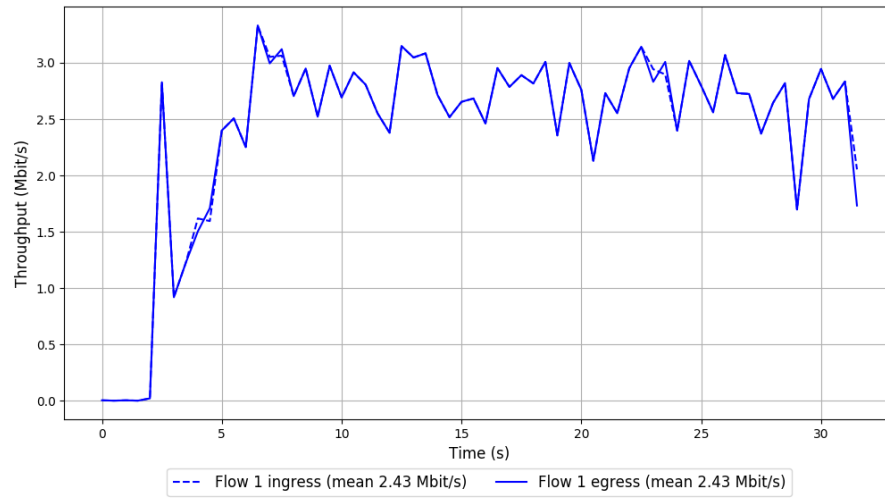


Run 7: Statistics of WebRTC media

Start at: 2017-12-05 11:46:47
End at: 2017-12-05 11:47:17
Local clock offset: 1.962 ms
Remote clock offset: -1.662 ms

Below is generated by plot.py at 2017-12-05 17:12:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 1.324 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 1.324 ms
Loss rate: 0.21%

Run 7: Report of WebRTC media — Data Link

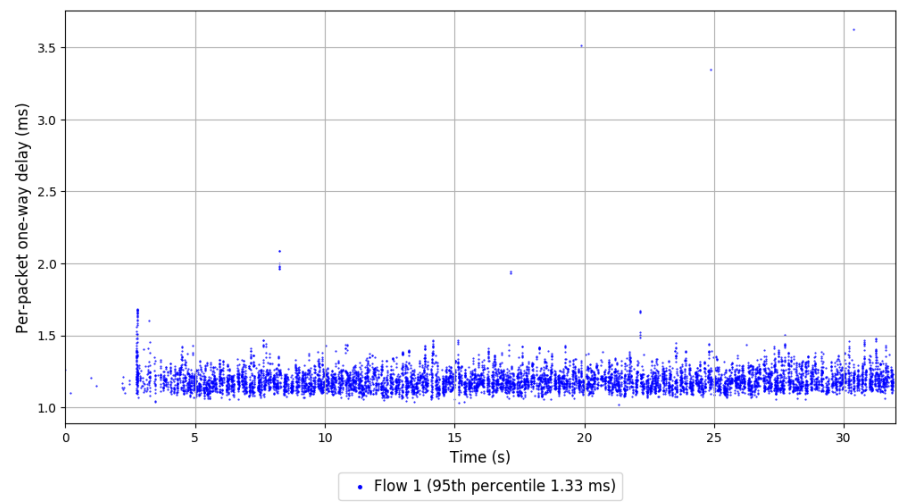
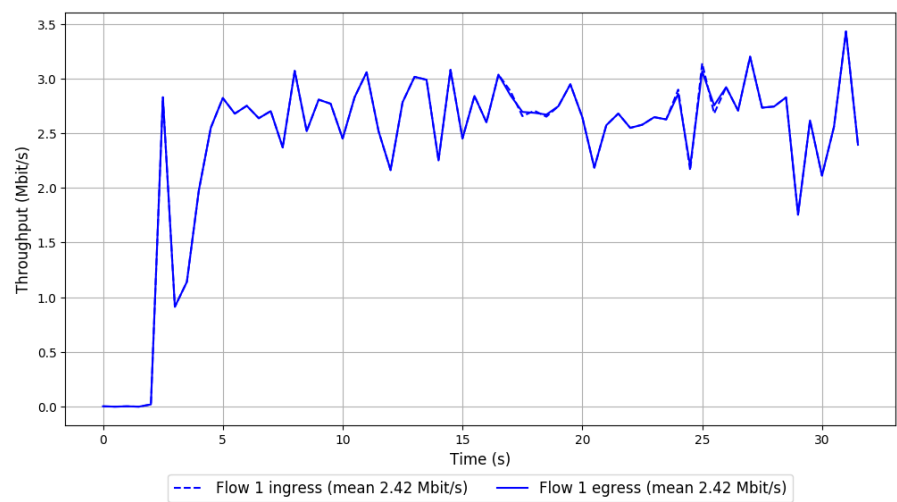


Run 8: Statistics of WebRTC media

Start at: 2017-12-05 12:06:05
End at: 2017-12-05 12:06:35
Local clock offset: 1.572 ms
Remote clock offset: -1.586 ms

Below is generated by plot.py at 2017-12-05 17:12:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 1.326 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 1.326 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

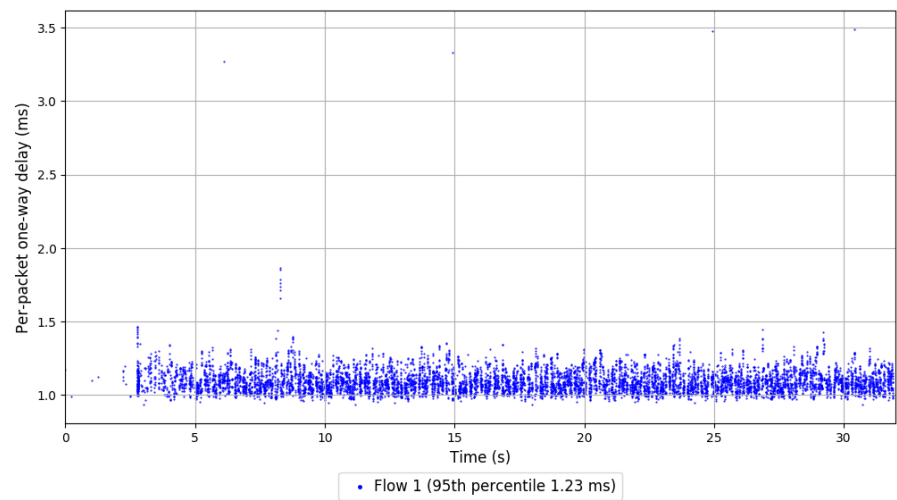
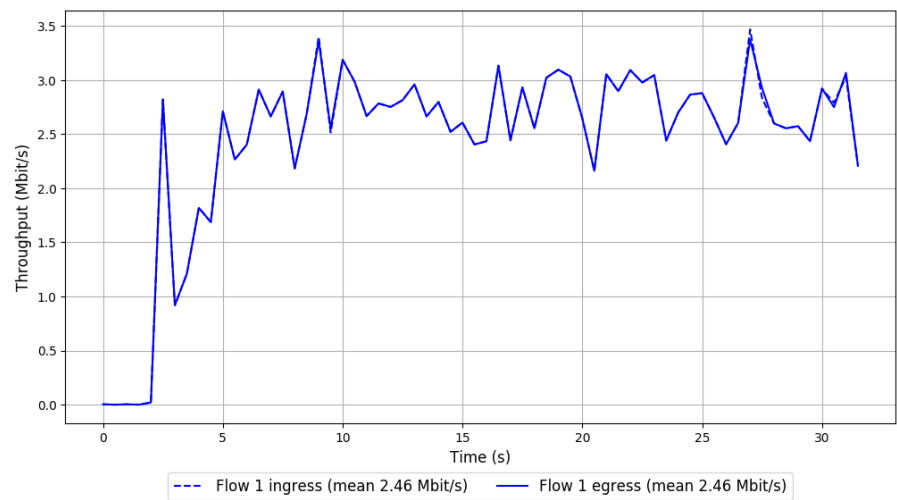


Run 9: Statistics of WebRTC media

Start at: 2017-12-05 12:25:18
End at: 2017-12-05 12:25:48
Local clock offset: 1.276 ms
Remote clock offset: -1.606 ms

Below is generated by plot.py at 2017-12-05 17:12:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.46 Mbit/s
95th percentile per-packet one-way delay: 1.228 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.46 Mbit/s
95th percentile per-packet one-way delay: 1.228 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-12-05 12:44:35

End at: 2017-12-05 12:45:05

Local clock offset: 1.003 ms

Remote clock offset: -1.82 ms

Below is generated by plot.py at 2017-12-05 17:12:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.44 Mbit/s

95th percentile per-packet one-way delay: 1.154 ms

Loss rate: 0.00%

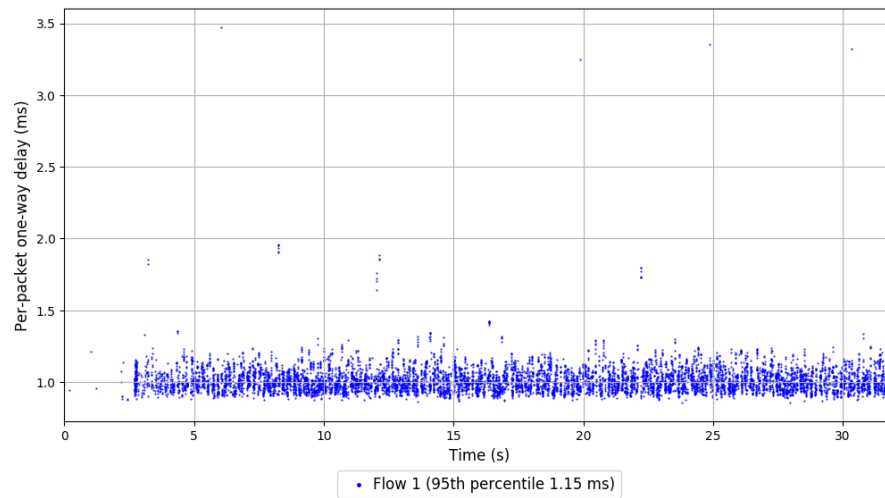
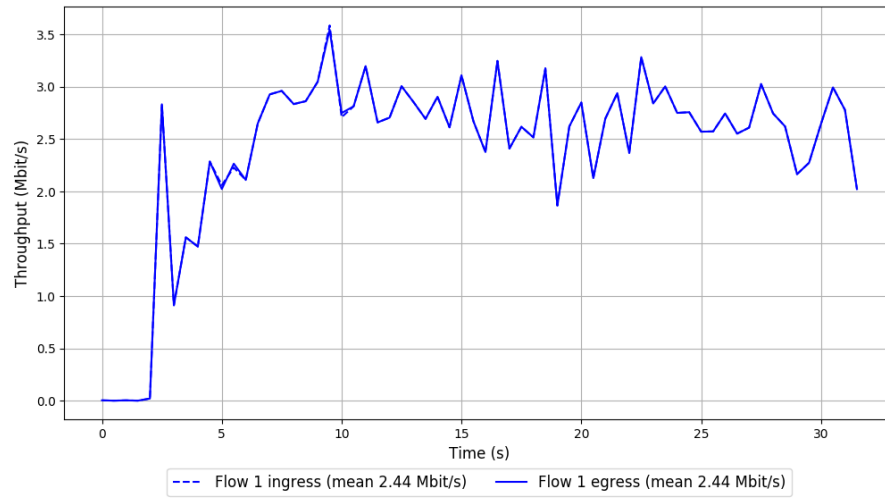
-- Flow 1:

Average throughput: 2.44 Mbit/s

95th percentile per-packet one-way delay: 1.154 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

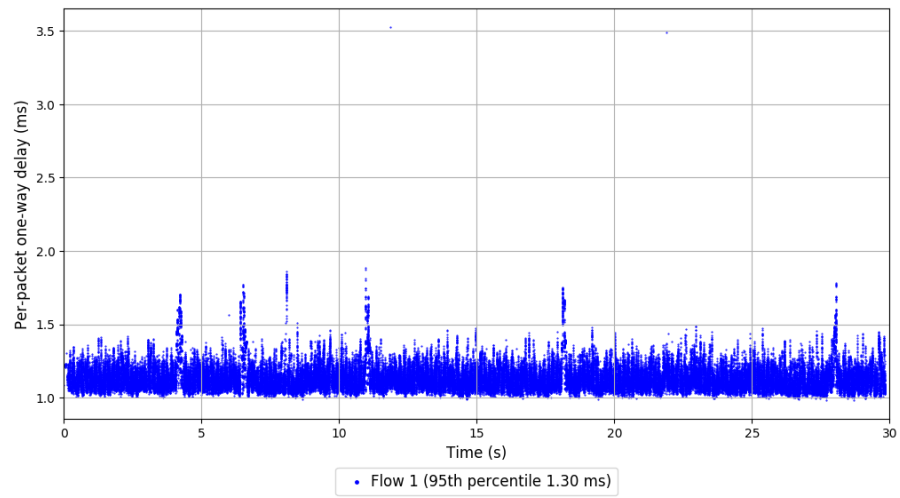
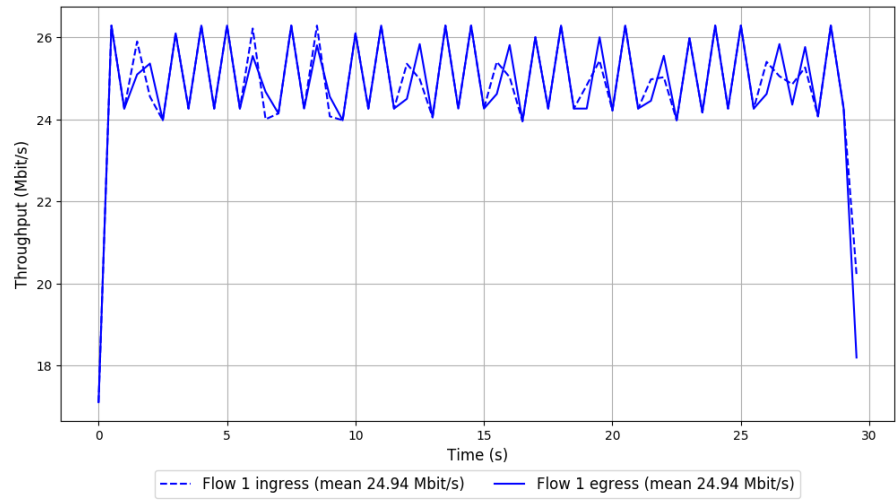


Run 1: Statistics of Sprout

Start at: 2017-12-05 09:50:37
End at: 2017-12-05 09:51:07
Local clock offset: 3.225 ms
Remote clock offset: -2.001 ms

Below is generated by plot.py at 2017-12-05 17:12:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.94 Mbit/s
95th percentile per-packet one-way delay: 1.301 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 24.94 Mbit/s
95th percentile per-packet one-way delay: 1.301 ms
Loss rate: 0.14%

Run 1: Report of Sprout — Data Link

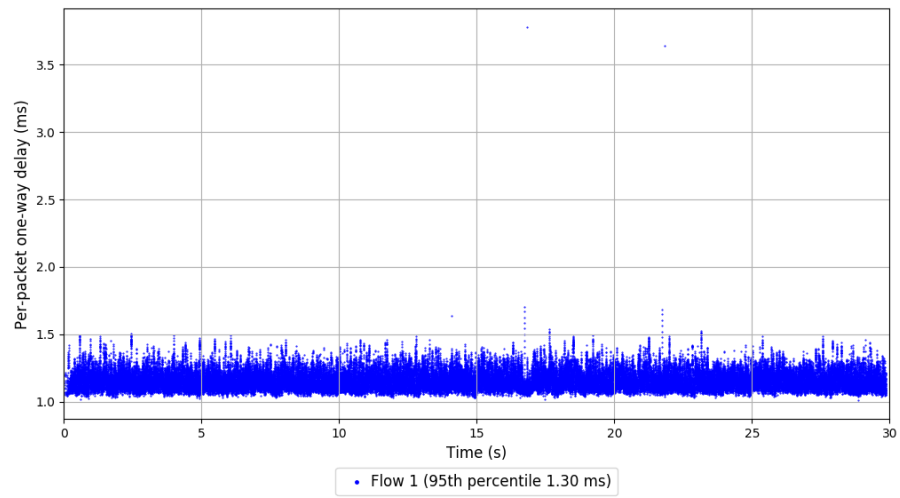
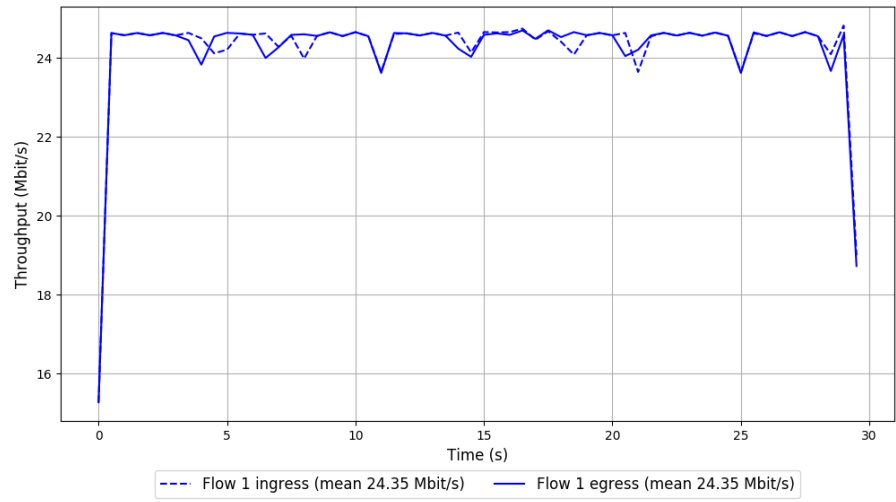


Run 2: Statistics of Sprout

Start at: 2017-12-05 10:09:47
End at: 2017-12-05 10:10:17
Local clock offset: 3.201 ms
Remote clock offset: -1.929 ms

Below is generated by plot.py at 2017-12-05 17:12:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.35 Mbit/s
95th percentile per-packet one-way delay: 1.296 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 24.35 Mbit/s
95th percentile per-packet one-way delay: 1.296 ms
Loss rate: 0.06%

Run 2: Report of Sprout — Data Link

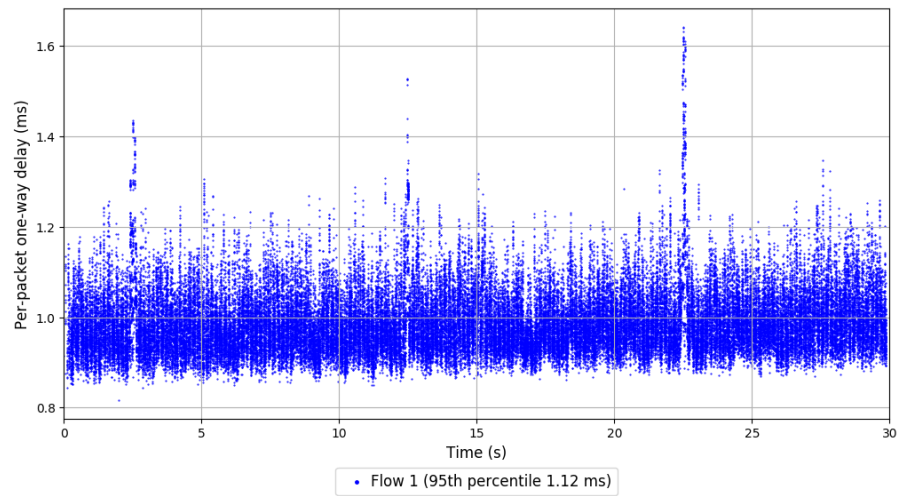
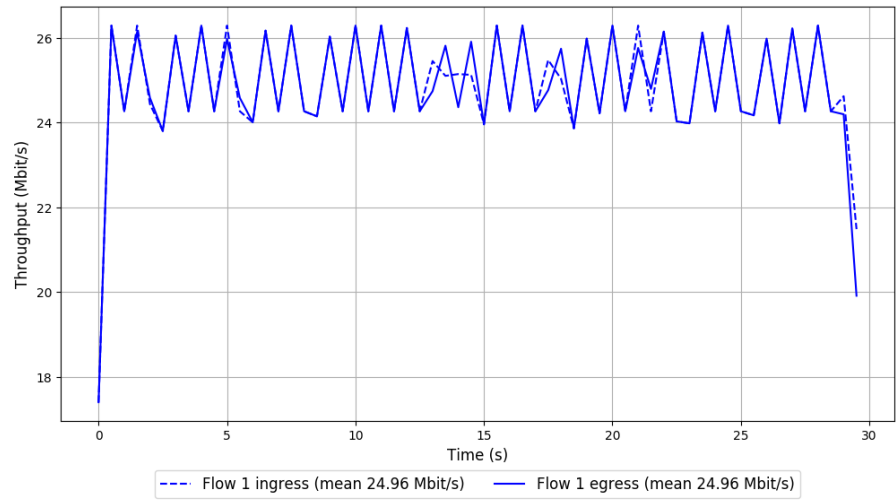


Run 3: Statistics of Sprout

Start at: 2017-12-05 10:28:47
End at: 2017-12-05 10:29:17
Local clock offset: 2.729 ms
Remote clock offset: -1.805 ms

Below is generated by plot.py at 2017-12-05 17:12:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.96 Mbit/s
95th percentile per-packet one-way delay: 1.119 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 24.96 Mbit/s
95th percentile per-packet one-way delay: 1.119 ms
Loss rate: 0.13%

Run 3: Report of Sprout — Data Link

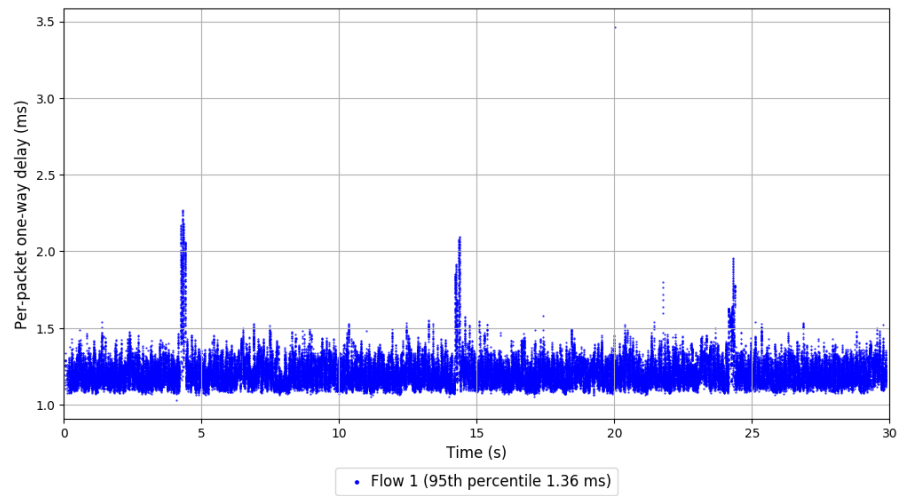
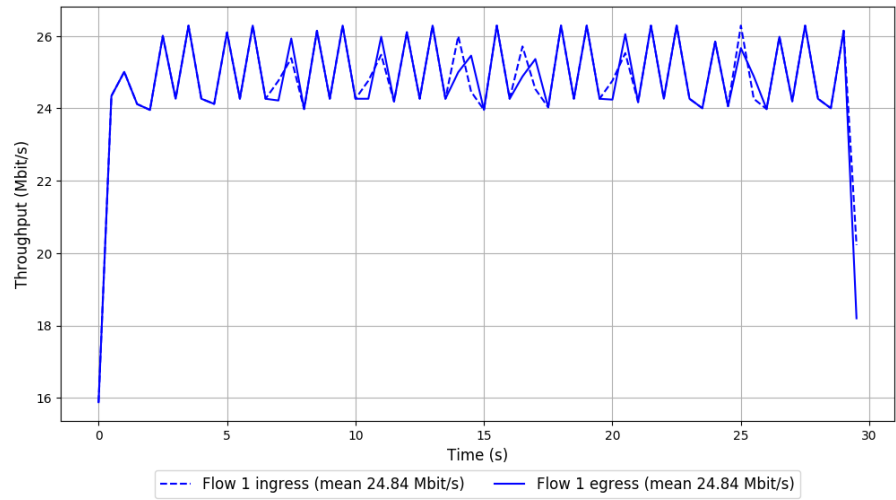


Run 4: Statistics of Sprout

Start at: 2017-12-05 10:47:56
End at: 2017-12-05 10:48:26
Local clock offset: 2.305 ms
Remote clock offset: -1.517 ms

Below is generated by plot.py at 2017-12-05 17:12:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.84 Mbit/s
95th percentile per-packet one-way delay: 1.361 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 24.84 Mbit/s
95th percentile per-packet one-way delay: 1.361 ms
Loss rate: 0.14%

Run 4: Report of Sprout — Data Link

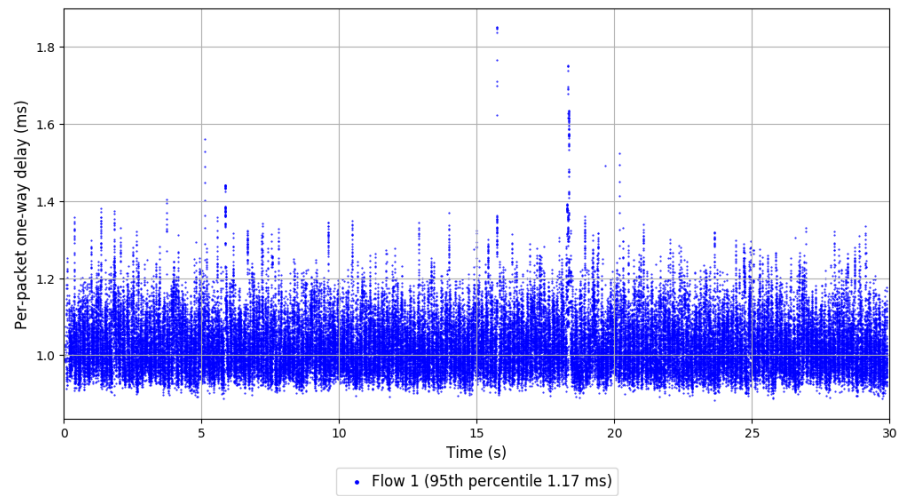
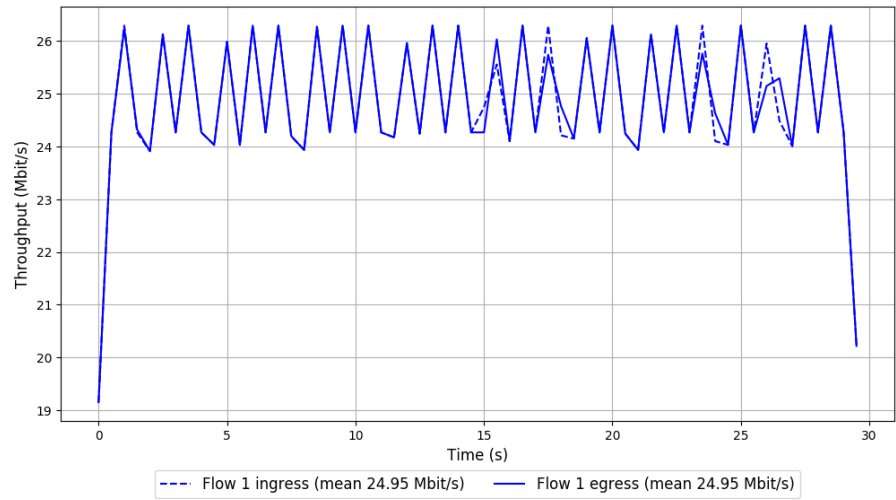


Run 5: Statistics of Sprout

Start at: 2017-12-05 11:07:07
End at: 2017-12-05 11:07:37
Local clock offset: 2.083 ms
Remote clock offset: -1.709 ms

Below is generated by plot.py at 2017-12-05 17:12:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.95 Mbit/s
95th percentile per-packet one-way delay: 1.165 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.95 Mbit/s
95th percentile per-packet one-way delay: 1.165 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

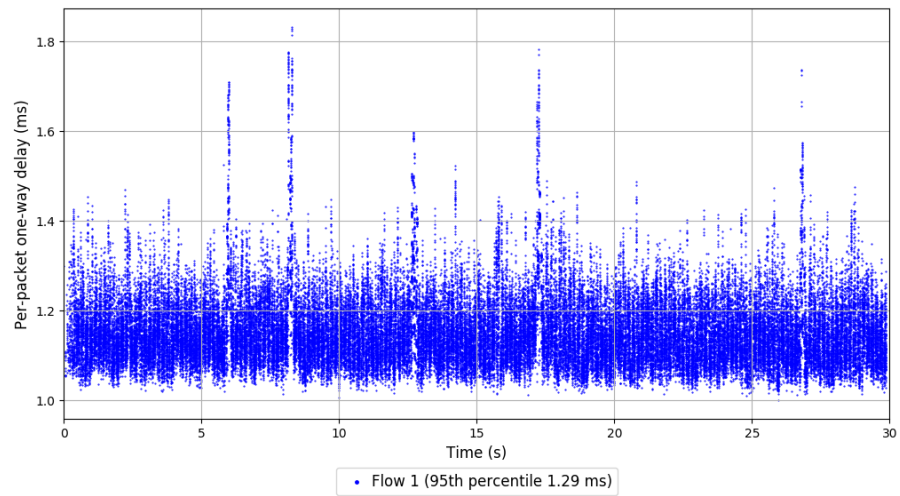
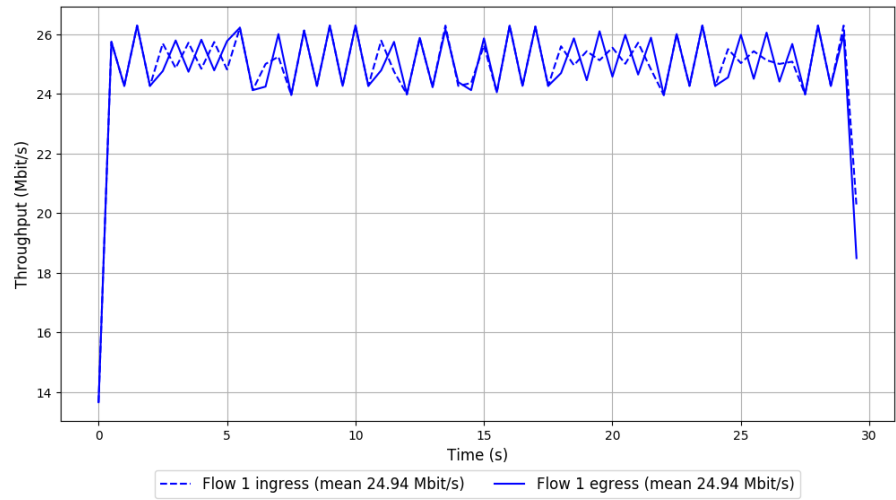


Run 6: Statistics of Sprout

Start at: 2017-12-05 11:26:14
End at: 2017-12-05 11:26:44
Local clock offset: 2.104 ms
Remote clock offset: -1.563 ms

Below is generated by plot.py at 2017-12-05 17:12:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.94 Mbit/s
95th percentile per-packet one-way delay: 1.288 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 24.94 Mbit/s
95th percentile per-packet one-way delay: 1.288 ms
Loss rate: 0.14%

Run 6: Report of Sprout — Data Link

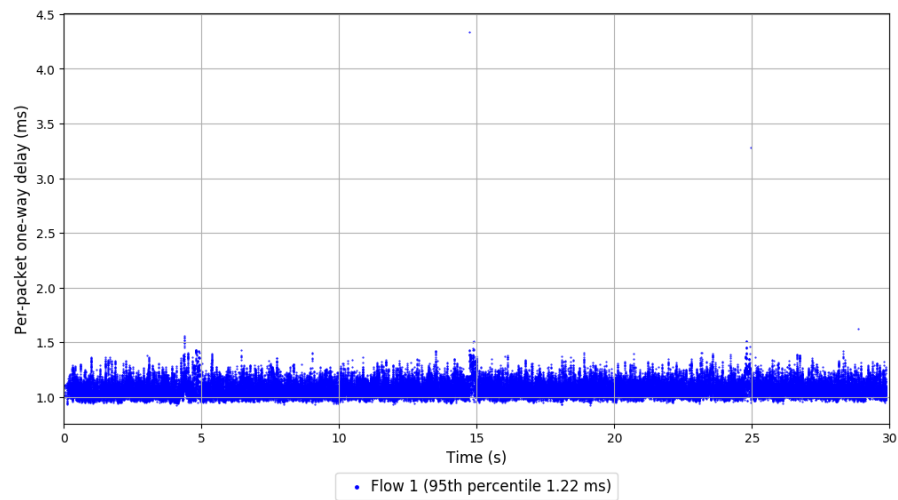
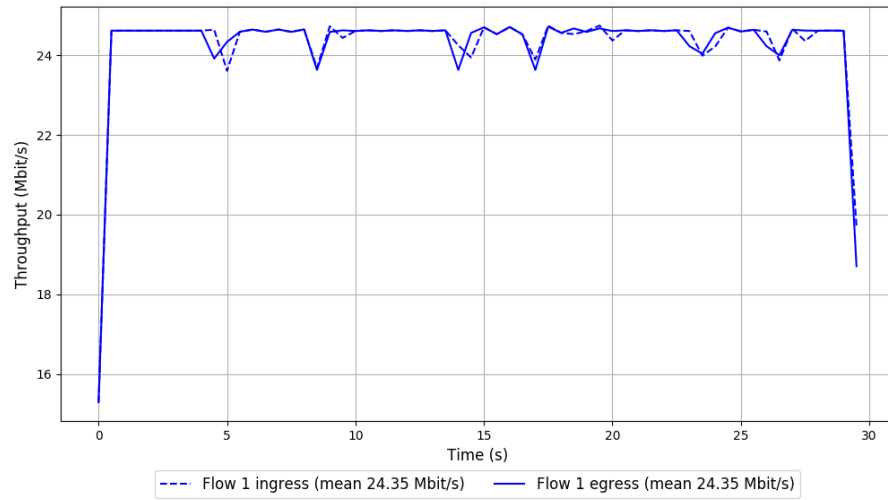


Run 7: Statistics of Sprout

Start at: 2017-12-05 11:45:36
End at: 2017-12-05 11:46:06
Local clock offset: 1.879 ms
Remote clock offset: -1.655 ms

Below is generated by plot.py at 2017-12-05 17:12:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.35 Mbit/s
95th percentile per-packet one-way delay: 1.216 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 24.35 Mbit/s
95th percentile per-packet one-way delay: 1.216 ms
Loss rate: 0.07%

Run 7: Report of Sprout — Data Link

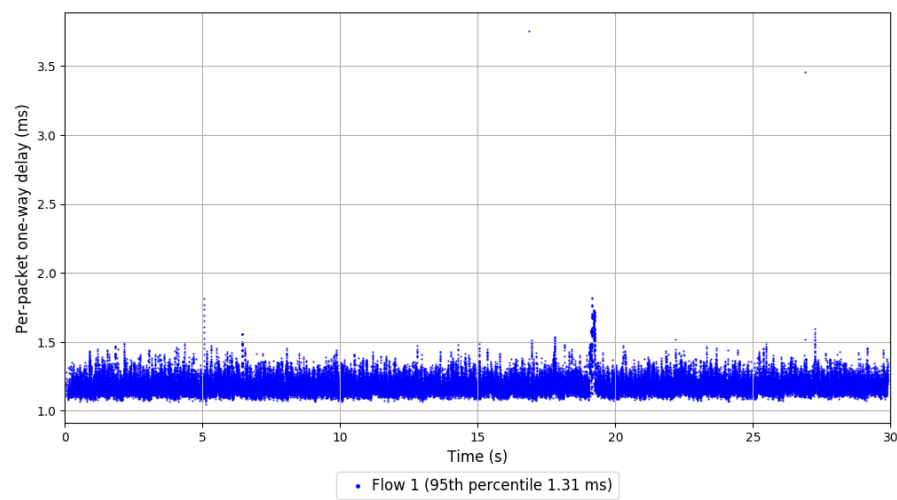
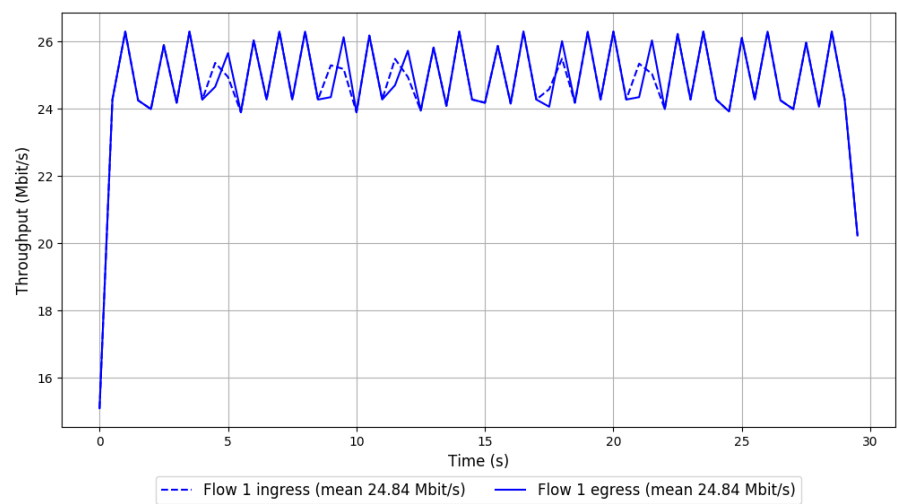


Run 8: Statistics of Sprout

Start at: 2017-12-05 12:04:54
End at: 2017-12-05 12:05:24
Local clock offset: 1.587 ms
Remote clock offset: -1.6 ms

Below is generated by plot.py at 2017-12-05 17:12:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.84 Mbit/s
95th percentile per-packet one-way delay: 1.307 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.84 Mbit/s
95th percentile per-packet one-way delay: 1.307 ms
Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

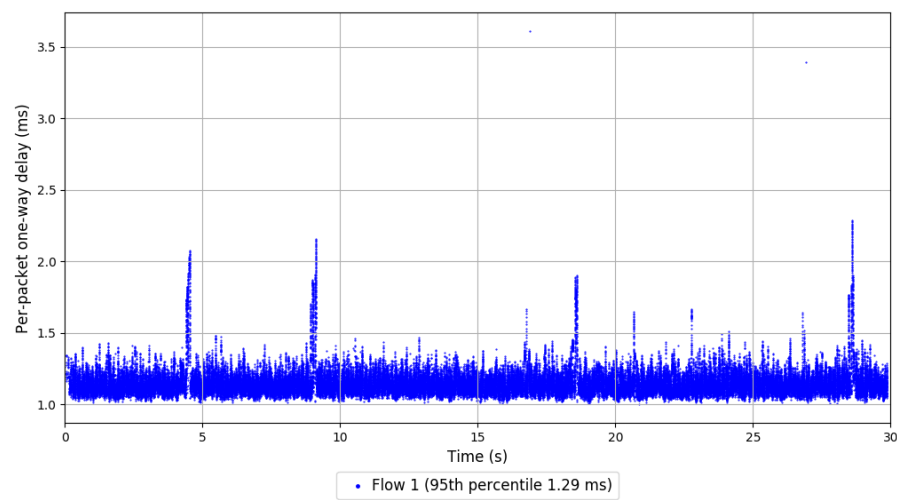
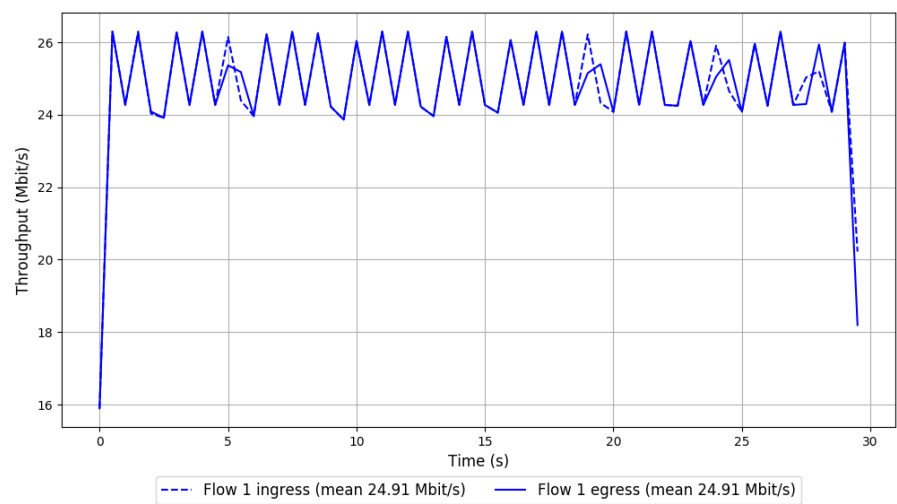


Run 9: Statistics of Sprout

Start at: 2017-12-05 12:24:07
End at: 2017-12-05 12:24:37
Local clock offset: 1.293 ms
Remote clock offset: -1.581 ms

Below is generated by plot.py at 2017-12-05 17:12:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.91 Mbit/s
95th percentile per-packet one-way delay: 1.289 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 24.91 Mbit/s
95th percentile per-packet one-way delay: 1.289 ms
Loss rate: 0.14%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-12-05 12:43:25

End at: 2017-12-05 12:43:55

Local clock offset: 1.1 ms

Remote clock offset: -1.816 ms

Below is generated by plot.py at 2017-12-05 17:12:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.88 Mbit/s

95th percentile per-packet one-way delay: 1.280 ms

Loss rate: 0.13%

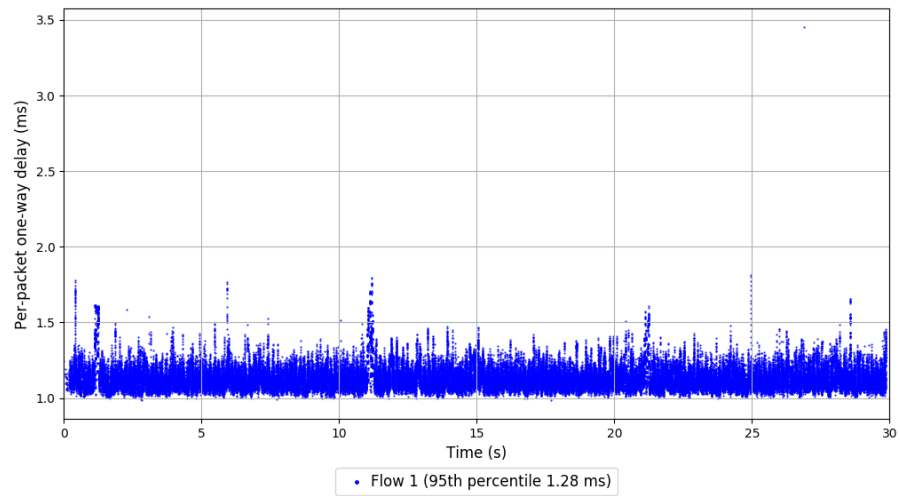
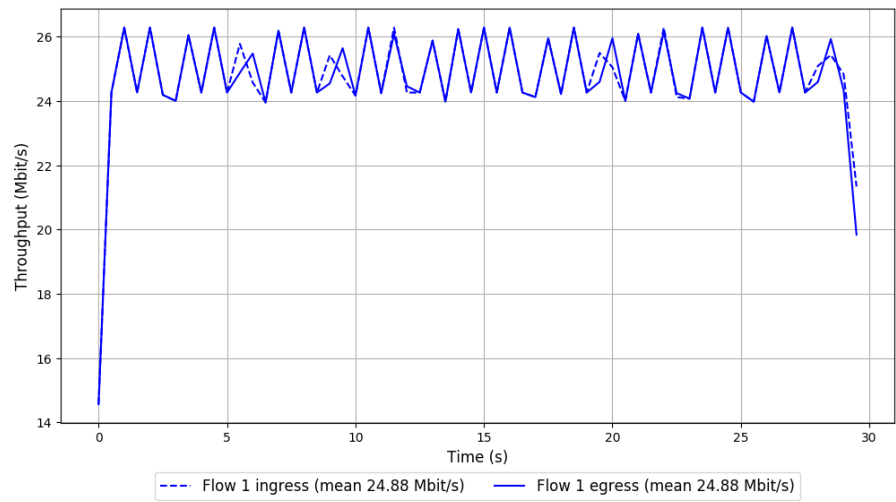
-- Flow 1:

Average throughput: 24.88 Mbit/s

95th percentile per-packet one-way delay: 1.280 ms

Loss rate: 0.13%

Run 10: Report of Sprout — Data Link

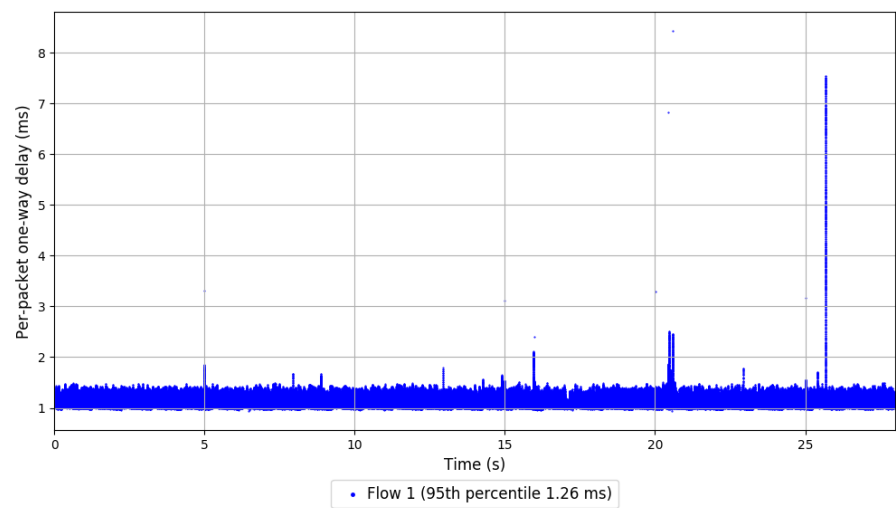
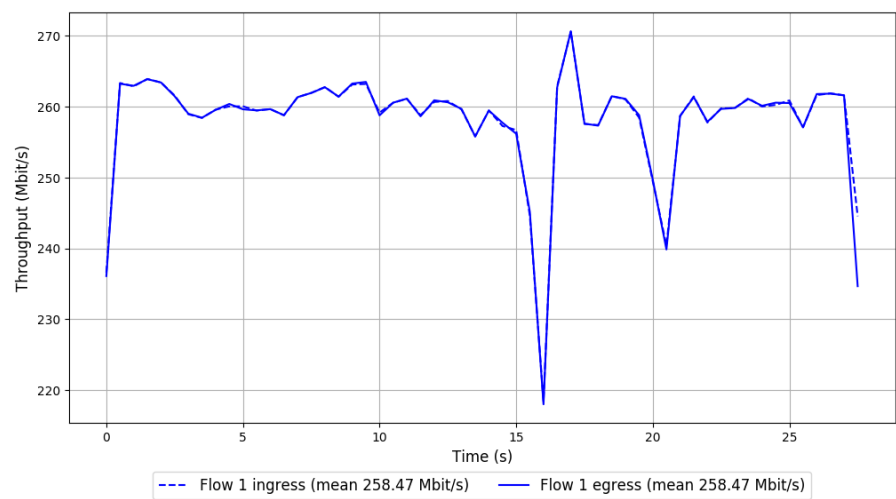


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-12-05 09:59:52
End at: 2017-12-05 10:00:22
Local clock offset: 3.238 ms
Remote clock offset: -2.013 ms

# Below is generated by plot.py at 2017-12-05 17:12:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 258.47 Mbit/s
95th percentile per-packet one-way delay: 1.262 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 258.47 Mbit/s
95th percentile per-packet one-way delay: 1.262 ms
Loss rate: 0.07%
```


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



Run 2: Statistics of TaoVA-100x

Start at: 2017-12-05 10:18:57

End at: 2017-12-05 10:19:27

Local clock offset: 3.076 ms

Remote clock offset: -1.951 ms

Below is generated by plot.py at 2017-12-05 17:12:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 260.53 Mbit/s

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

Loss rate: 0.07%

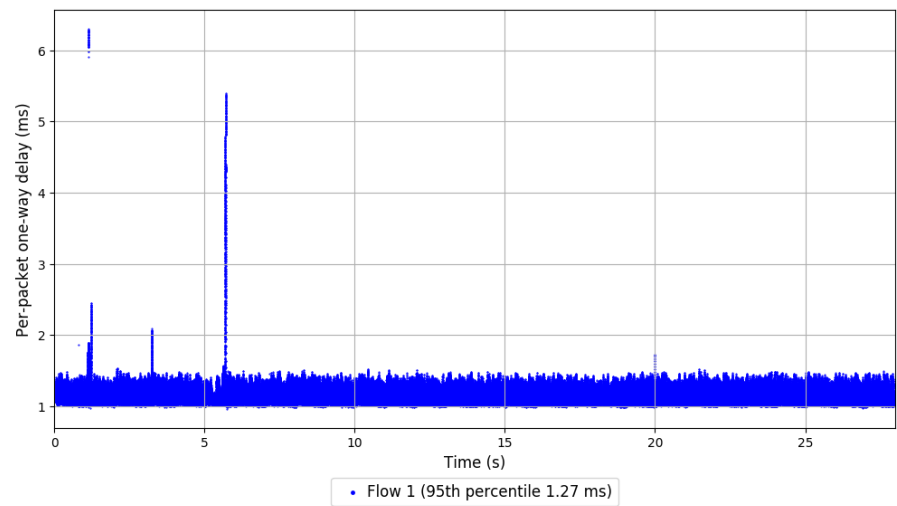
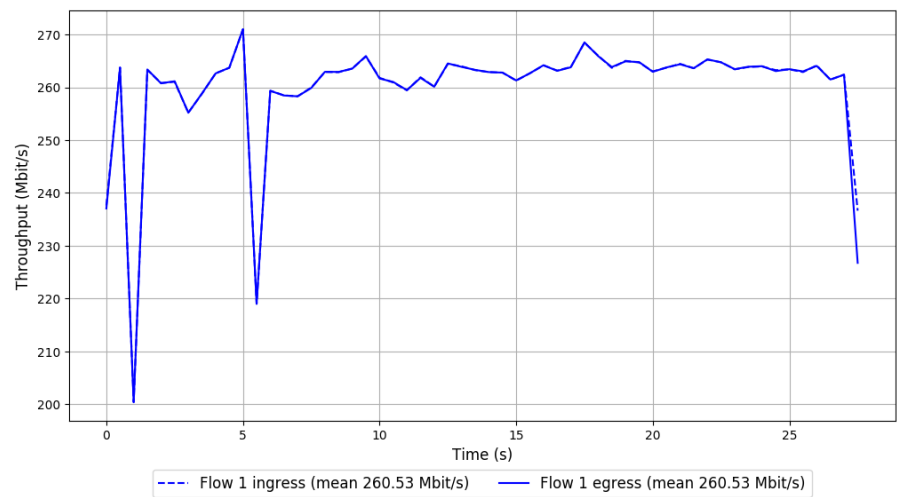
-- Flow 1:

Average throughput: 260.53 Mbit/s

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

Loss rate: 0.07%

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-12-05 10:38:00

End at: 2017-12-05 10:38:30

Local clock offset: 2.469 ms

Remote clock offset: -1.646 ms

Below is generated by plot.py at 2017-12-05 17:12:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 258.30 Mbit/s

95th percentile per-packet one-way delay: 1.264 ms

Loss rate: 0.07%

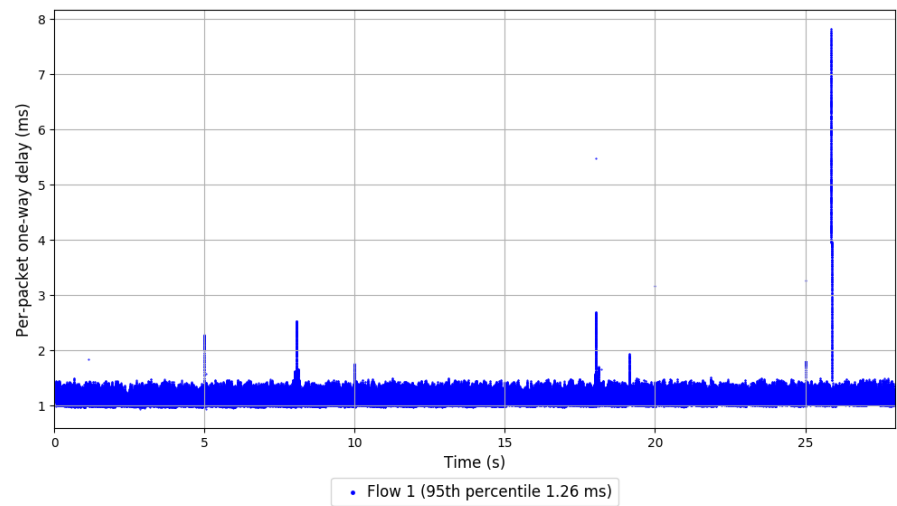
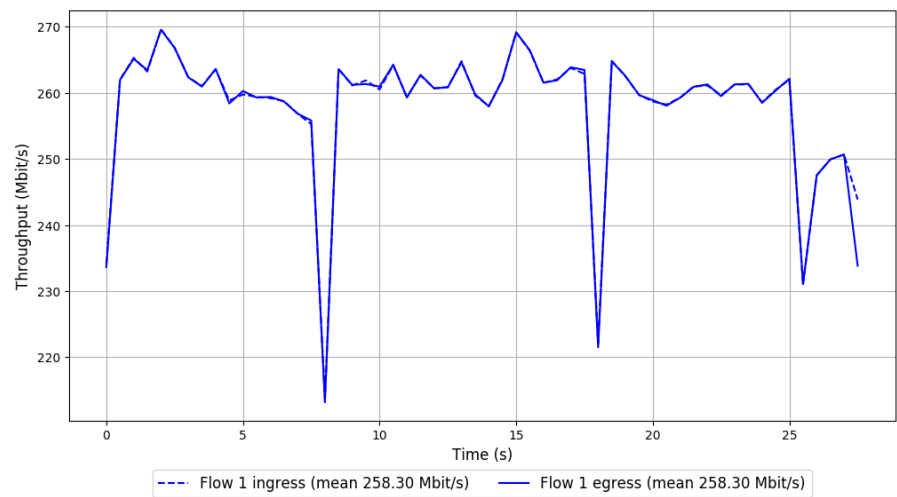
-- Flow 1:

Average throughput: 258.30 Mbit/s

95th percentile per-packet one-way delay: 1.264 ms

Loss rate: 0.07%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-12-05 10:57:08

End at: 2017-12-05 10:57:38

Local clock offset: 2.146 ms

Remote clock offset: -1.644 ms

Below is generated by plot.py at 2017-12-05 17:12:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 255.14 Mbit/s

95th percentile per-packet one-way delay: 1.245 ms

Loss rate: 0.07%

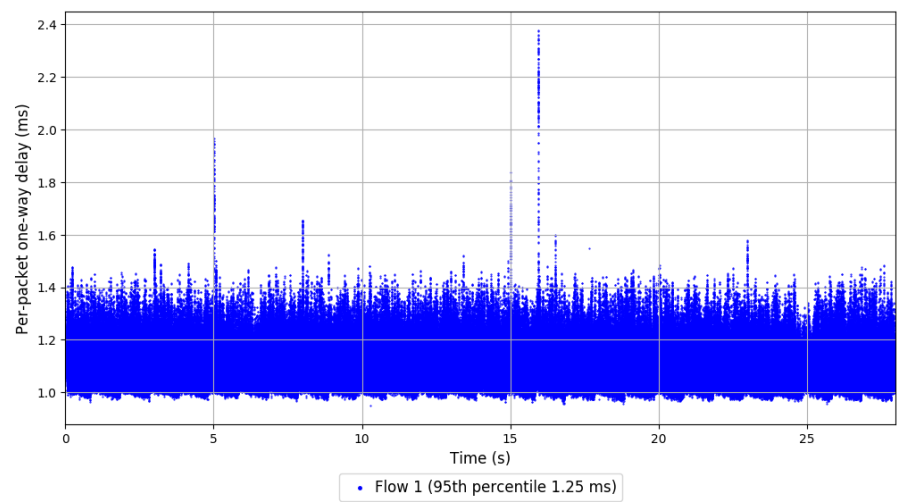
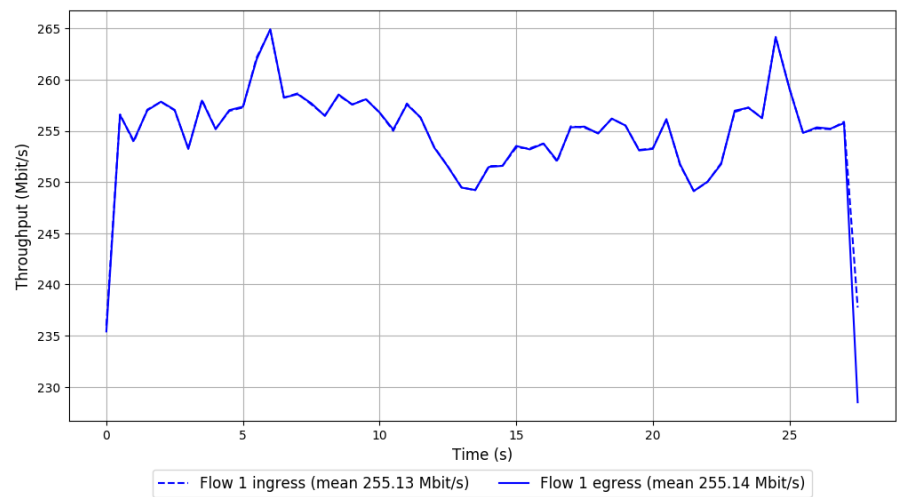
-- Flow 1:

Average throughput: 255.14 Mbit/s

95th percentile per-packet one-way delay: 1.245 ms

Loss rate: 0.07%

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

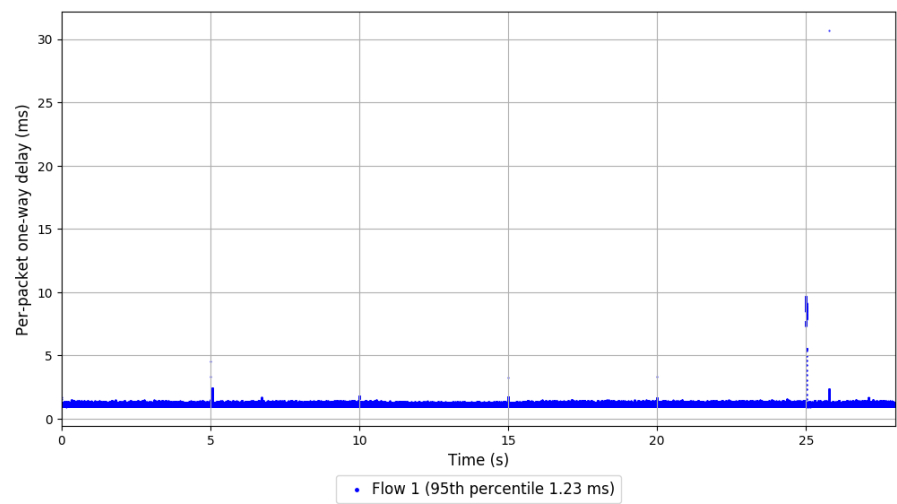
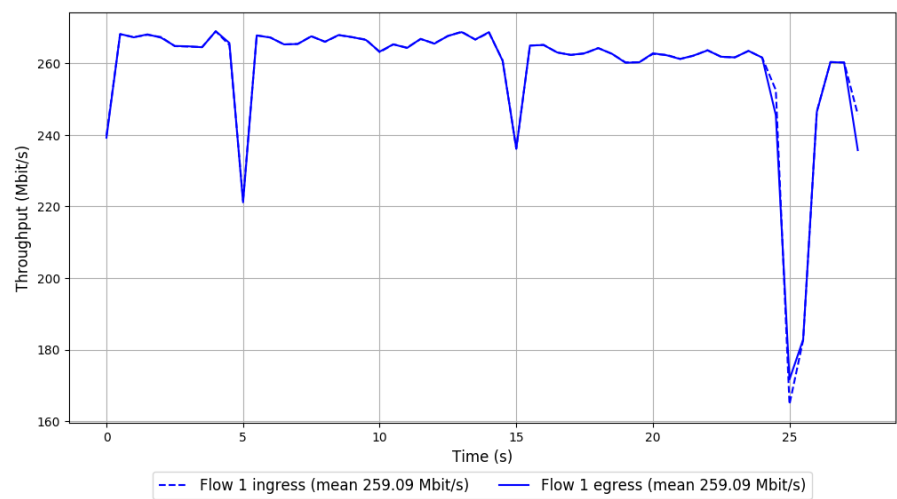


Run 5: Statistics of TaoVA-100x

Start at: 2017-12-05 11:16:21
End at: 2017-12-05 11:16:51
Local clock offset: 2.15 ms
Remote clock offset: -1.556 ms

Below is generated by plot.py at 2017-12-05 17:12:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 259.09 Mbit/s
95th percentile per-packet one-way delay: 1.226 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 259.09 Mbit/s
95th percentile per-packet one-way delay: 1.226 ms
Loss rate: 0.07%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-12-05 11:35:32

End at: 2017-12-05 11:36:03

Local clock offset: 2.153 ms

Remote clock offset: -1.691 ms

Below is generated by plot.py at 2017-12-05 17:12:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 256.15 Mbit/s

95th percentile per-packet one-way delay: 1.326 ms

Loss rate: 0.07%

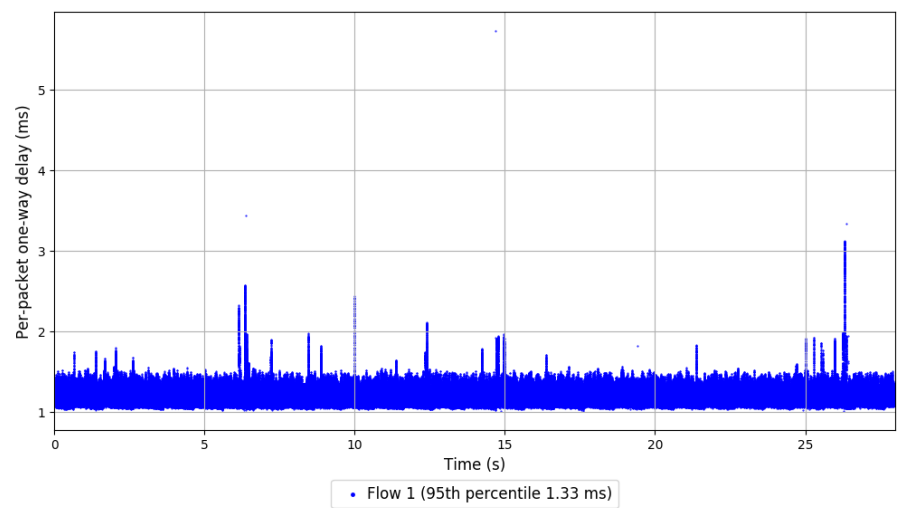
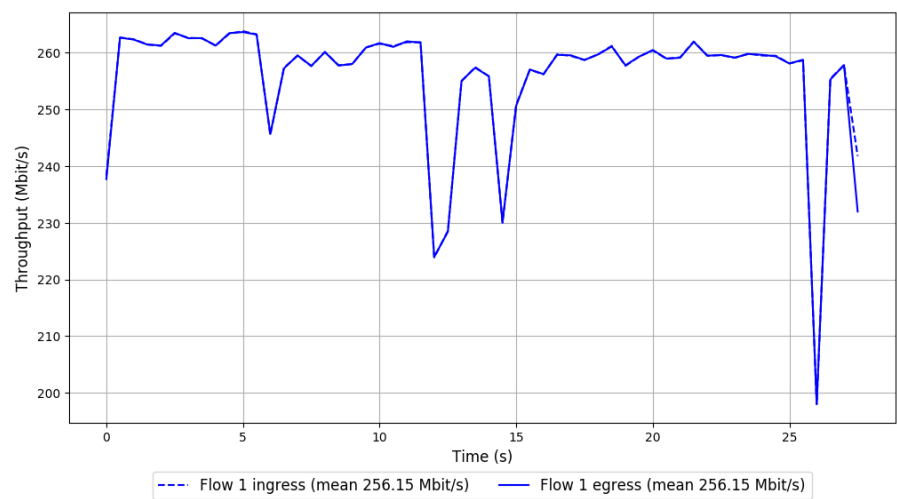
-- Flow 1:

Average throughput: 256.15 Mbit/s

95th percentile per-packet one-way delay: 1.326 ms

Loss rate: 0.07%

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

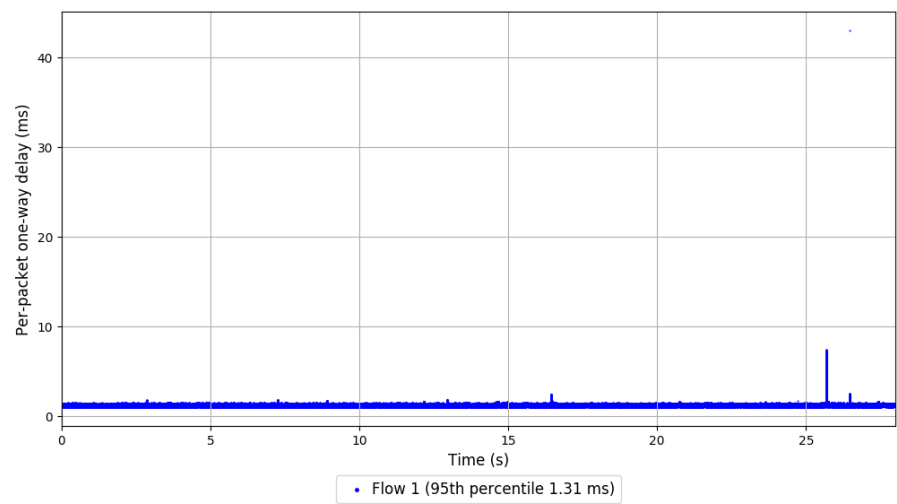
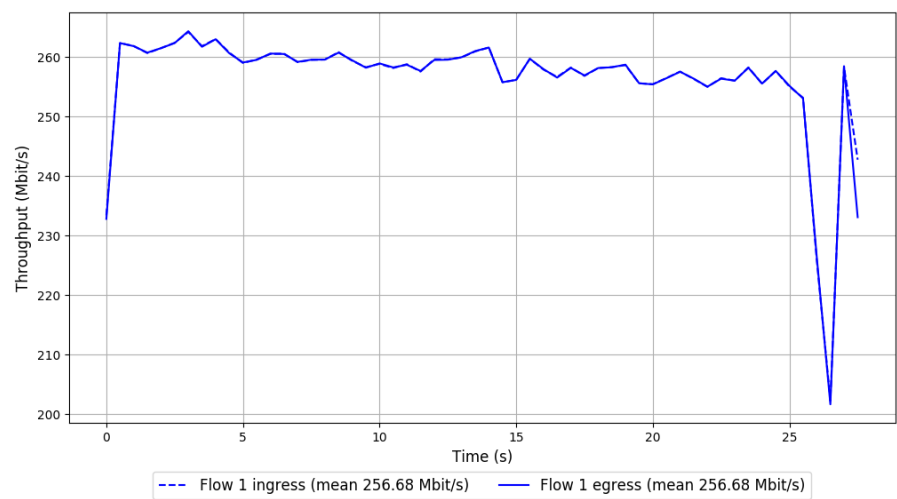


Run 7: Statistics of TaoVA-100x

Start at: 2017-12-05 11:54:51
End at: 2017-12-05 11:55:21
Local clock offset: 1.787 ms
Remote clock offset: -1.617 ms

Below is generated by plot.py at 2017-12-05 17:17:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 256.68 Mbit/s
95th percentile per-packet one-way delay: 1.312 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 256.68 Mbit/s
95th percentile per-packet one-way delay: 1.312 ms
Loss rate: 0.07%

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



Run 8: Statistics of TaoVA-100x

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

End at: 2017-12-05 12:14:41

Local clock offset: 1.43 ms

Remote clock offset: -1.47 ms

Below is generated by plot.py at 2017-12-05 17:17:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 260.21 Mbit/s

95th percentile per-packet one-way delay: 1.302 ms

Loss rate: 0.05%

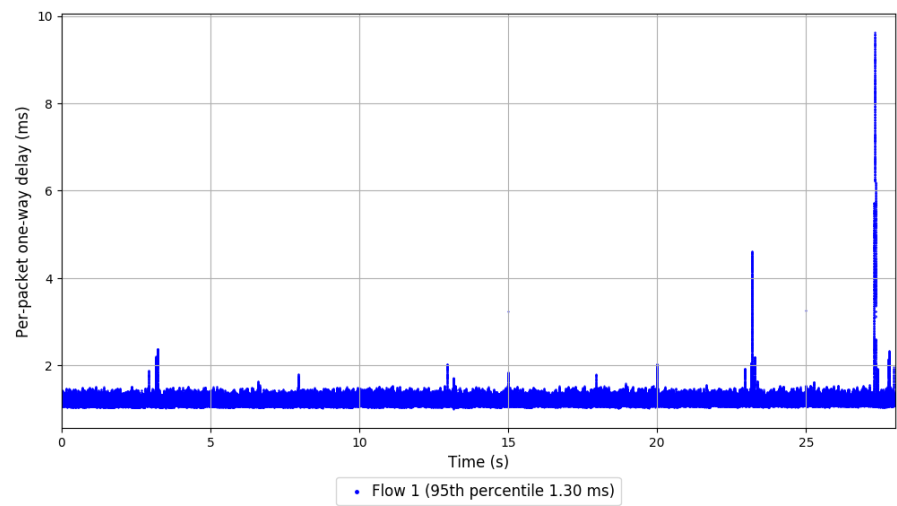
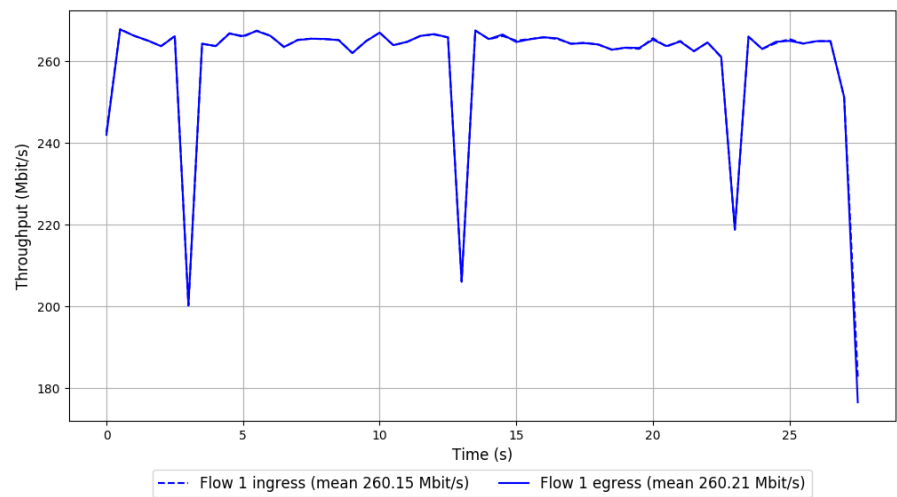
-- Flow 1:

Average throughput: 260.21 Mbit/s

95th percentile per-packet one-way delay: 1.302 ms

Loss rate: 0.05%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-12-05 12:33:22

End at: 2017-12-05 12:33:52

Local clock offset: 1.105 ms

Remote clock offset: -1.595 ms

Below is generated by plot.py at 2017-12-05 17:17:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 259.77 Mbit/s

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

Loss rate: 0.07%

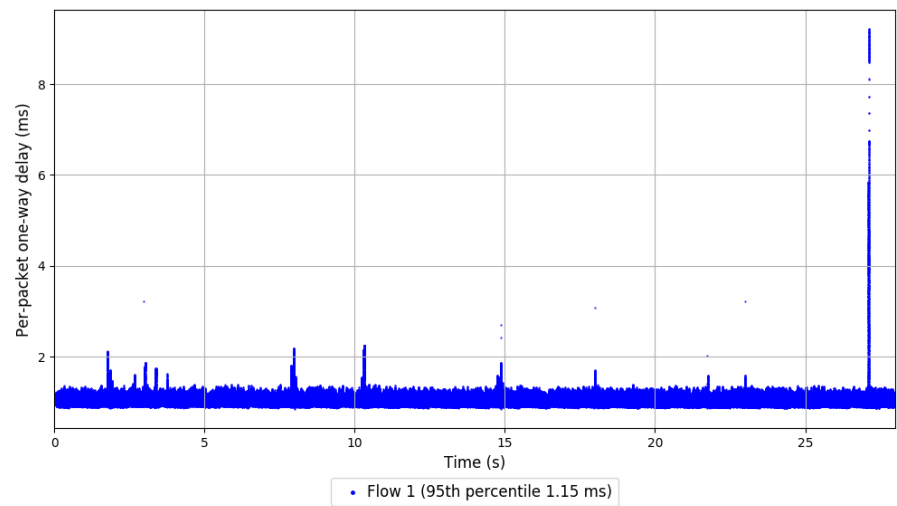
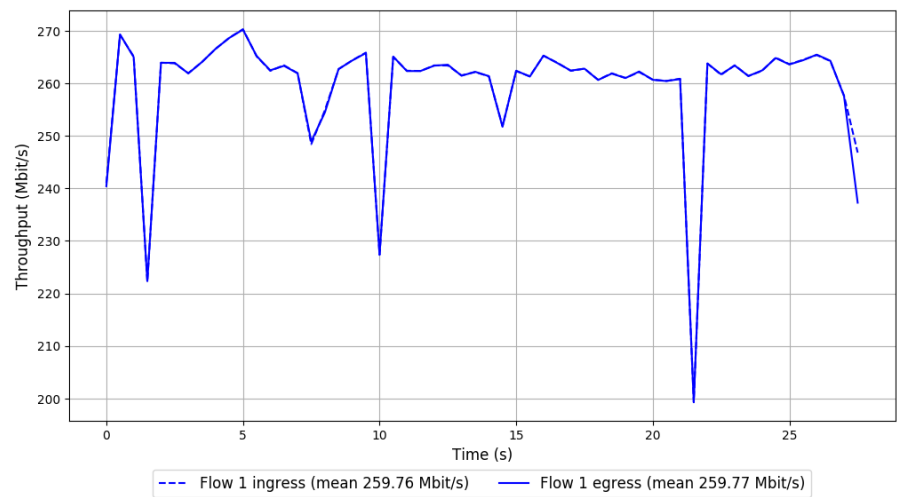
-- Flow 1:

Average throughput: 259.77 Mbit/s

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

Loss rate: 0.07%

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



Run 10: Statistics of TaoVA-100x

Start at: 2017-12-05 12:52:39

End at: 2017-12-05 12:53:09

Local clock offset: 0.966 ms

Remote clock offset: -1.847 ms

Below is generated by plot.py at 2017-12-05 17:17:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 258.03 Mbit/s

95th percentile per-packet one-way delay: 1.200 ms

Loss rate: 0.07%

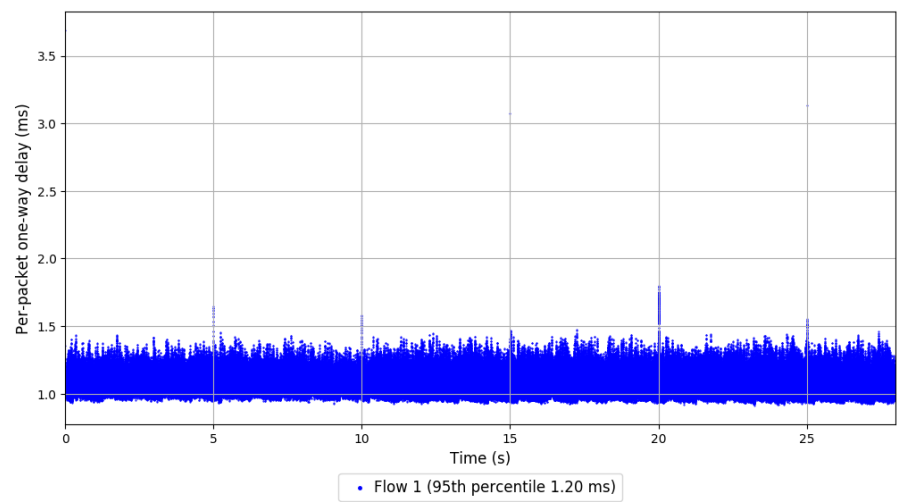
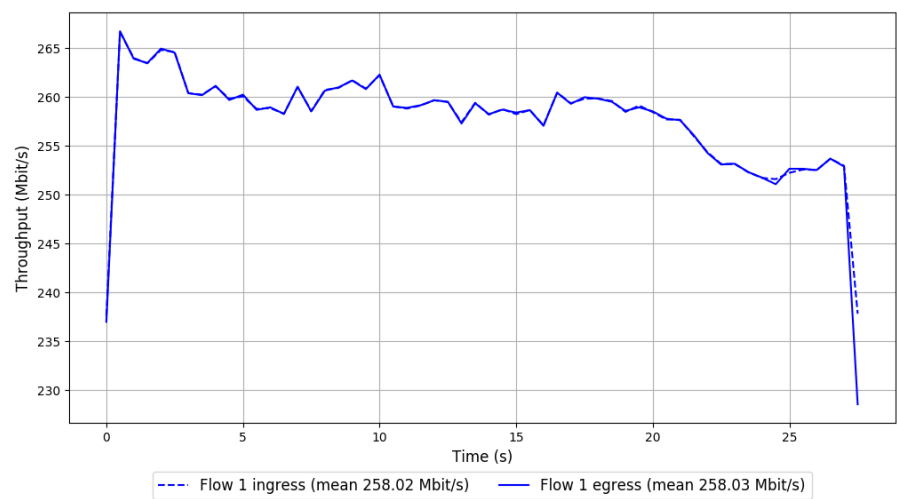
-- Flow 1:

Average throughput: 258.03 Mbit/s

95th percentile per-packet one-way delay: 1.200 ms

Loss rate: 0.07%

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



Run 1: Statistics of TCP Vegas

Start at: 2017-12-05 09:55:51
End at: 2017-12-05 09:56:21
Local clock offset: 3.275 ms
Remote clock offset: -2.056 ms

Below is generated by plot.py at 2017-12-05 17:17:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 265.52 Mbit/s

95th percentile per-packet one-way delay: 1.417 ms

Loss rate: 0.08%

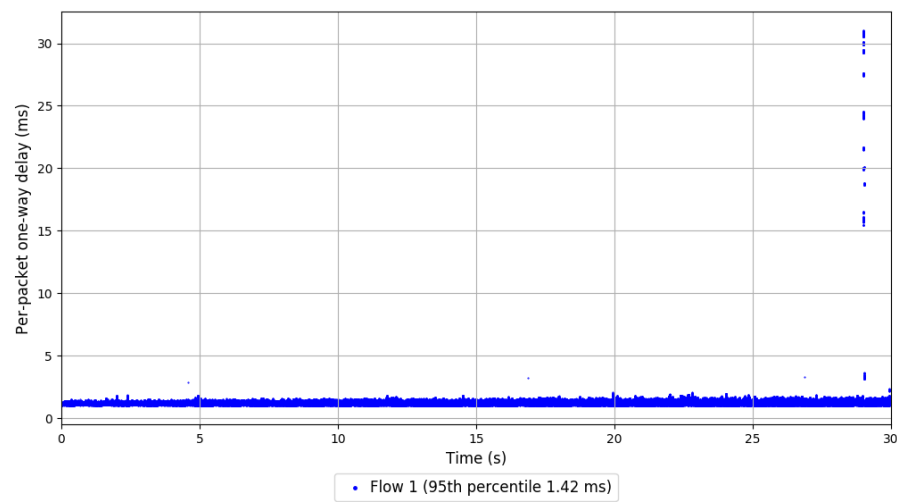
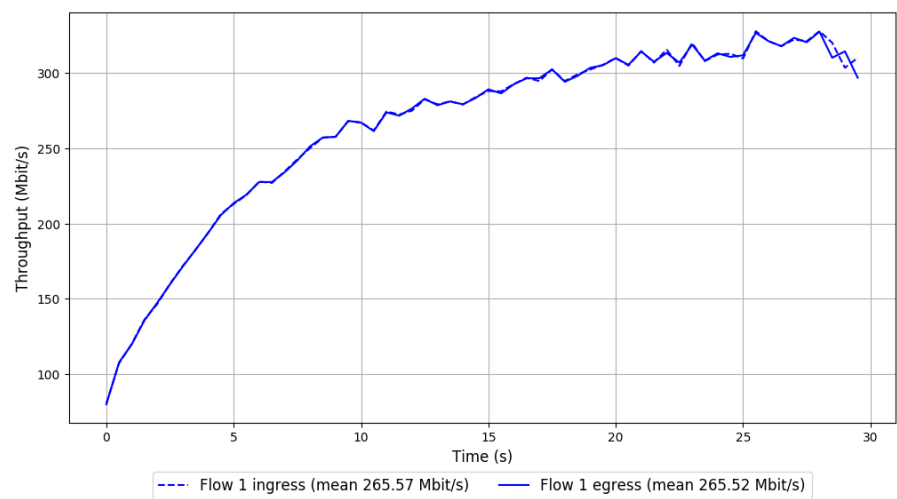
-- Flow 1:

Average throughput: 265.52 Mbit/s

95th percentile per-packet one-way delay: 1.417 ms

Loss rate: 0.08%

Run 1: Report of TCP Vegas — Data Link

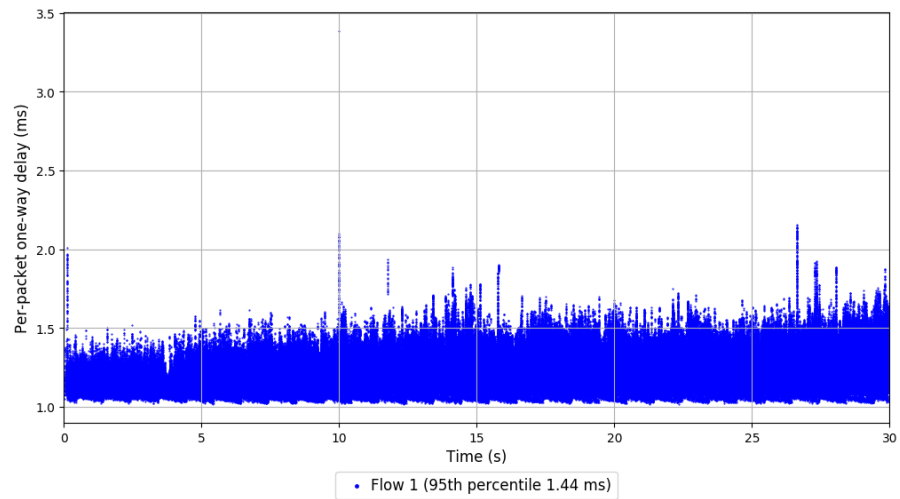
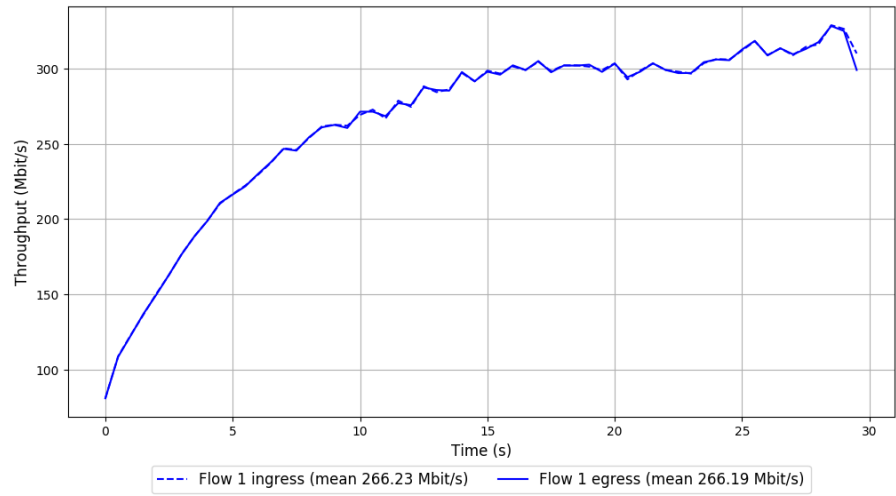


Run 2: Statistics of TCP Vegas

Start at: 2017-12-05 10:15:00
End at: 2017-12-05 10:15:30
Local clock offset: 3.11 ms
Remote clock offset: -1.953 ms

Below is generated by plot.py at 2017-12-05 17:17:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 266.19 Mbit/s
95th percentile per-packet one-way delay: 1.437 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 266.19 Mbit/s
95th percentile per-packet one-way delay: 1.437 ms
Loss rate: 0.08%

Run 2: Report of TCP Vegas — Data Link

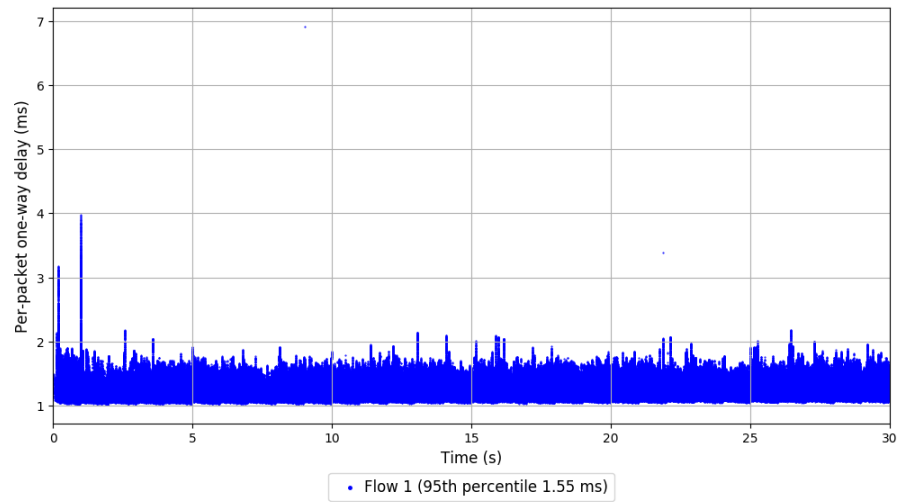
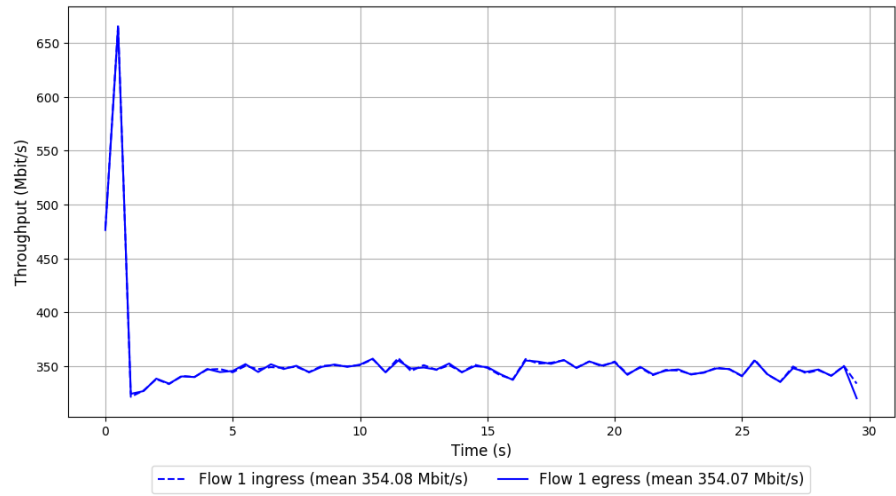


Run 3: Statistics of TCP Vegas

Start at: 2017-12-05 10:33:56
End at: 2017-12-05 10:34:26
Local clock offset: 2.661 ms
Remote clock offset: -1.756 ms

Below is generated by plot.py at 2017-12-05 17:17:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 354.07 Mbit/s
95th percentile per-packet one-way delay: 1.548 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 354.07 Mbit/s
95th percentile per-packet one-way delay: 1.548 ms
Loss rate: 0.07%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-12-05 10:53:10

End at: 2017-12-05 10:53:40

Local clock offset: 2.11 ms

Remote clock offset: -1.5 ms

Below is generated by plot.py at 2017-12-05 17:17:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 267.09 Mbit/s

95th percentile per-packet one-way delay: 1.296 ms

Loss rate: 0.08%

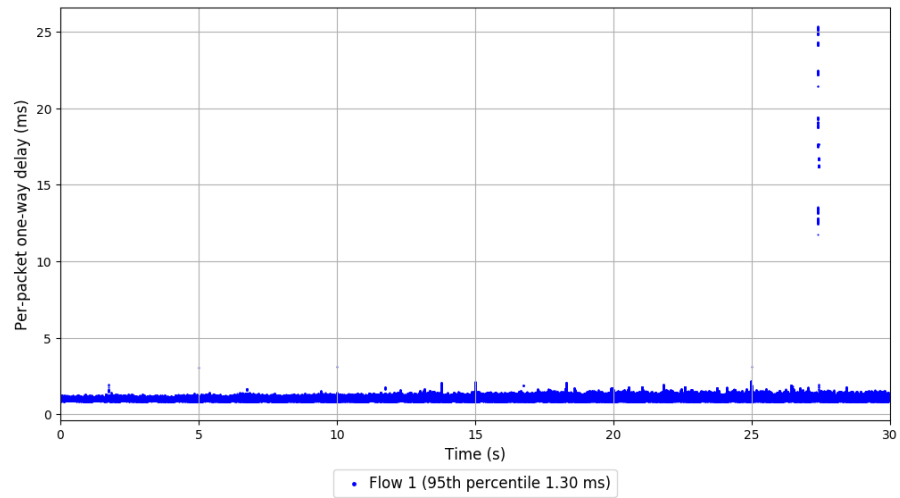
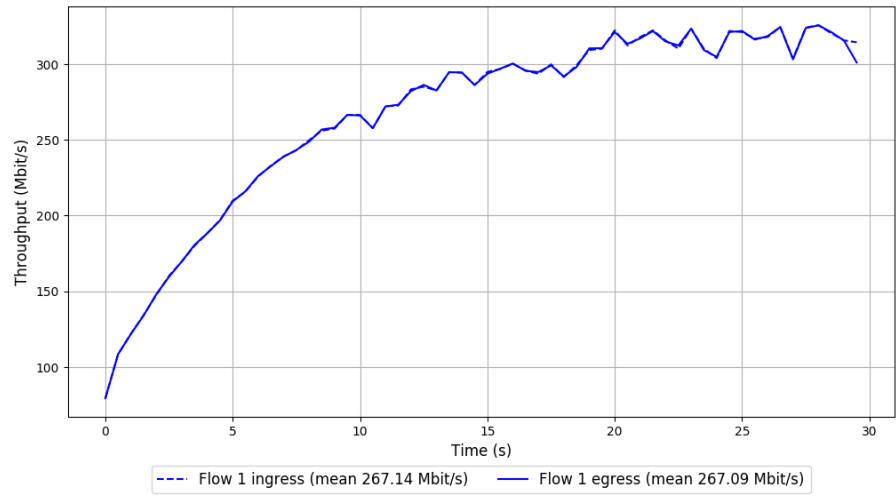
-- Flow 1:

Average throughput: 267.09 Mbit/s

95th percentile per-packet one-way delay: 1.296 ms

Loss rate: 0.08%

Run 4: Report of TCP Vegas — Data Link

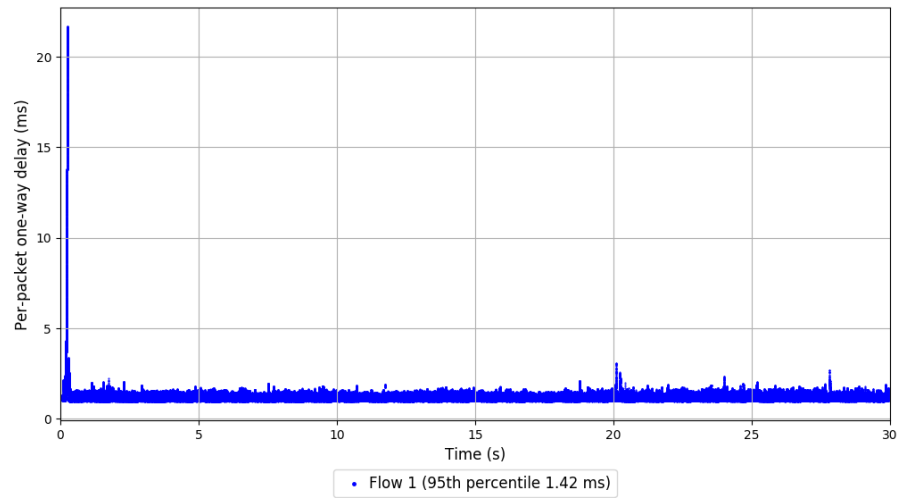
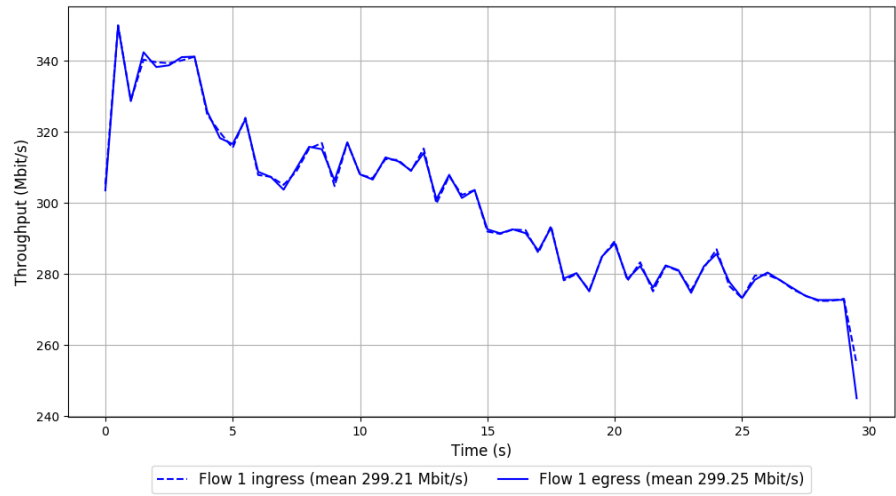


Run 5: Statistics of TCP Vegas

Start at: 2017-12-05 11:12:20
End at: 2017-12-05 11:12:50
Local clock offset: 2.06 ms
Remote clock offset: -1.717 ms

Below is generated by plot.py at 2017-12-05 17:18:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 299.25 Mbit/s
95th percentile per-packet one-way delay: 1.419 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 299.25 Mbit/s
95th percentile per-packet one-way delay: 1.419 ms
Loss rate: 0.06%

Run 5: Report of TCP Vegas — Data Link

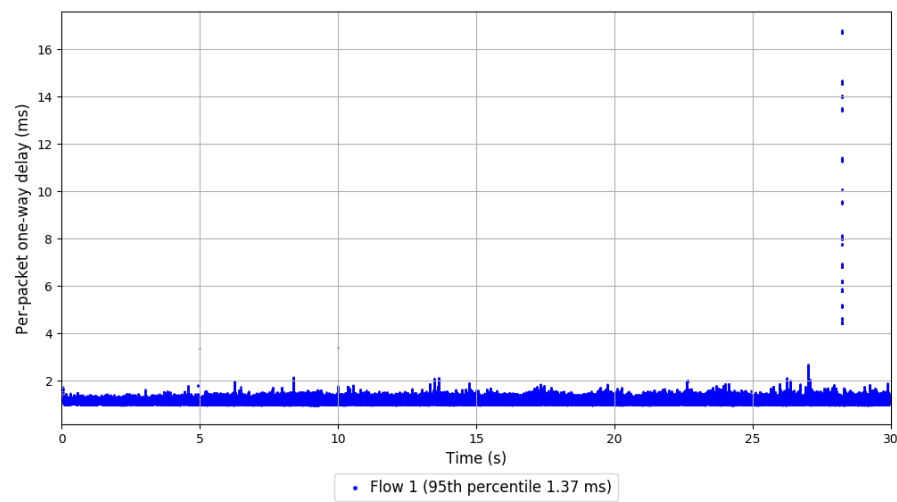
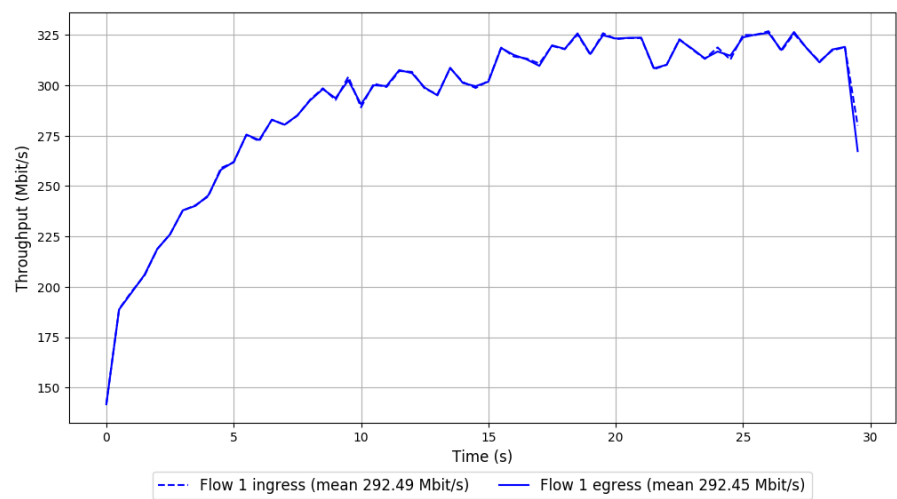


Run 6: Statistics of TCP Vegas

Start at: 2017-12-05 11:31:29
End at: 2017-12-05 11:31:59
Local clock offset: 2.14 ms
Remote clock offset: -1.593 ms

Below is generated by plot.py at 2017-12-05 17:18:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 292.45 Mbit/s
95th percentile per-packet one-way delay: 1.370 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 292.45 Mbit/s
95th percentile per-packet one-way delay: 1.370 ms
Loss rate: 0.07%

Run 6: Report of TCP Vegas — Data Link

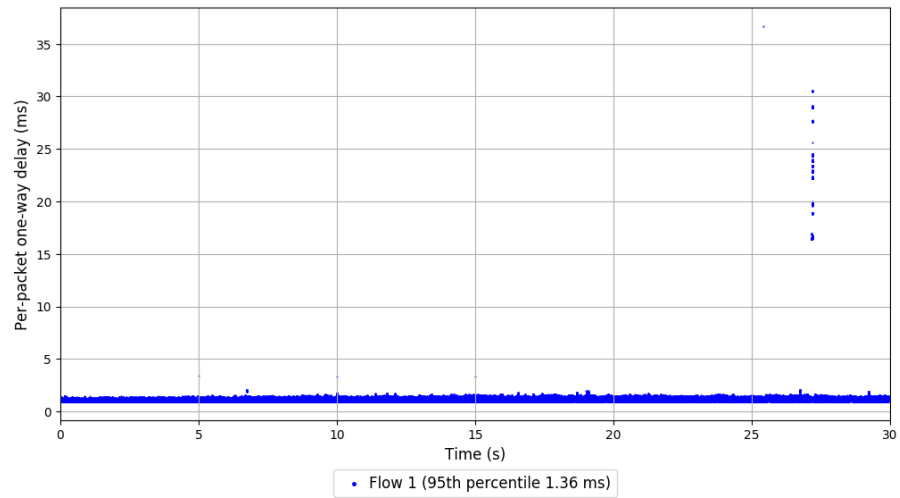
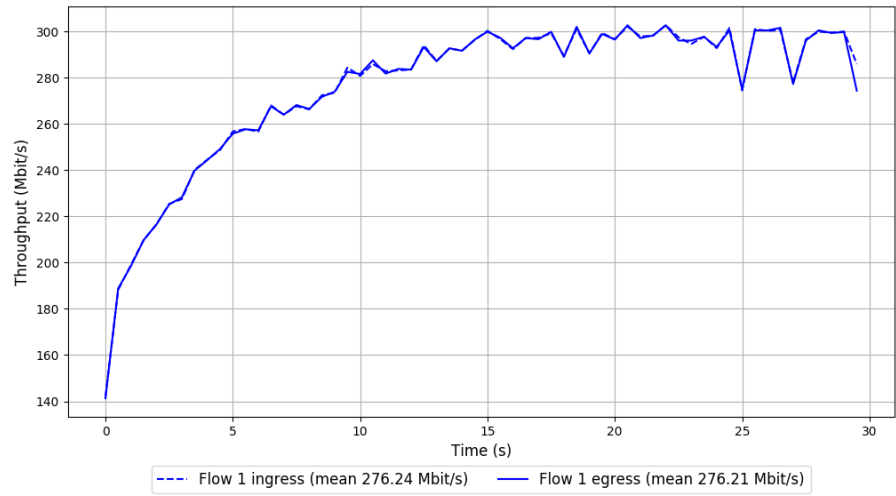


Run 7: Statistics of TCP Vegas

Start at: 2017-12-05 11:50:47
End at: 2017-12-05 11:51:17
Local clock offset: 1.788 ms
Remote clock offset: -1.639 ms

Below is generated by plot.py at 2017-12-05 17:19:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 276.21 Mbit/s
95th percentile per-packet one-way delay: 1.364 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 276.21 Mbit/s
95th percentile per-packet one-way delay: 1.364 ms
Loss rate: 0.08%

Run 7: Report of TCP Vegas — Data Link

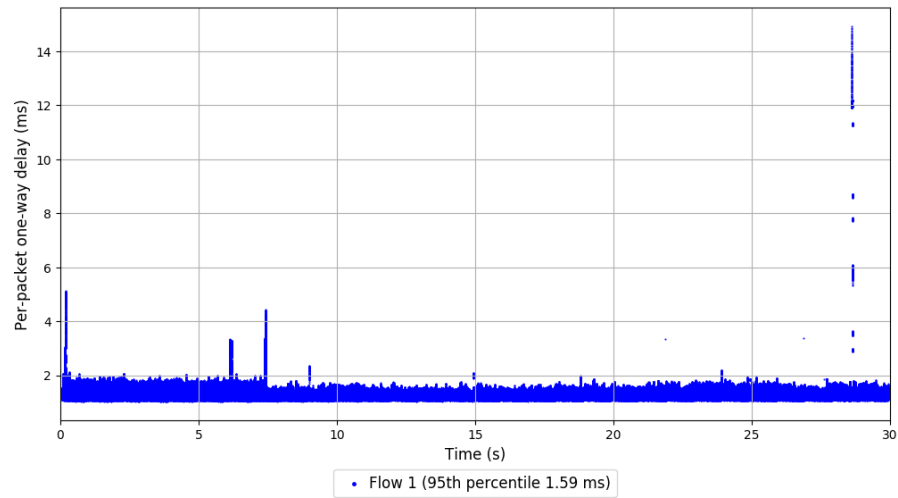
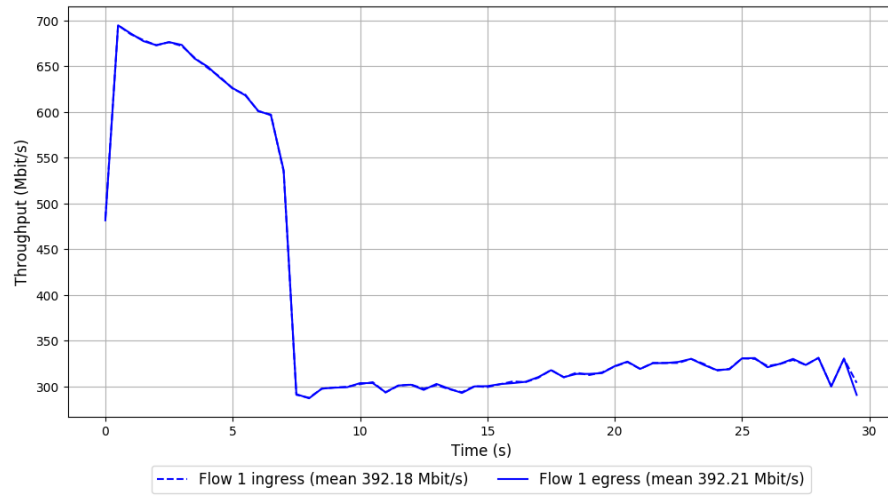


Run 8: Statistics of TCP Vegas

Start at: 2017-12-05 12:10:04
End at: 2017-12-05 12:10:34
Local clock offset: 1.49 ms
Remote clock offset: -1.552 ms

Below is generated by plot.py at 2017-12-05 17:22:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 392.21 Mbit/s
95th percentile per-packet one-way delay: 1.591 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 392.21 Mbit/s
95th percentile per-packet one-way delay: 1.591 ms
Loss rate: 0.06%

Run 8: Report of TCP Vegas — Data Link

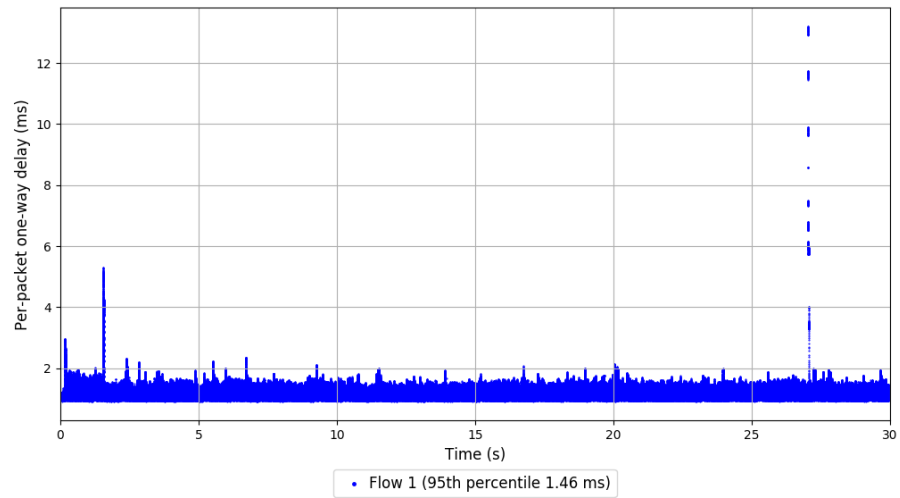
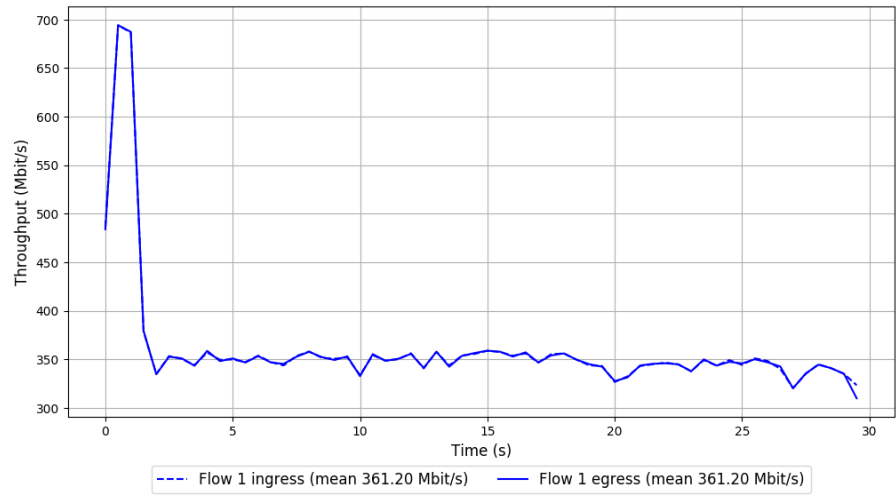


Run 9: Statistics of TCP Vegas

Start at: 2017-12-05 12:29:17
End at: 2017-12-05 12:29:47
Local clock offset: 1.111 ms
Remote clock offset: -1.669 ms

Below is generated by plot.py at 2017-12-05 17:22:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 361.20 Mbit/s
95th percentile per-packet one-way delay: 1.463 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 361.20 Mbit/s
95th percentile per-packet one-way delay: 1.463 ms
Loss rate: 0.06%

Run 9: Report of TCP Vegas — Data Link

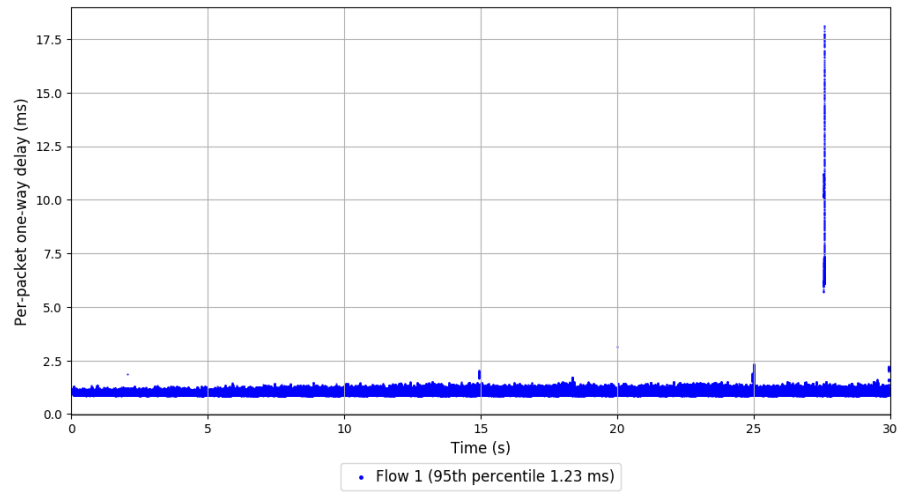
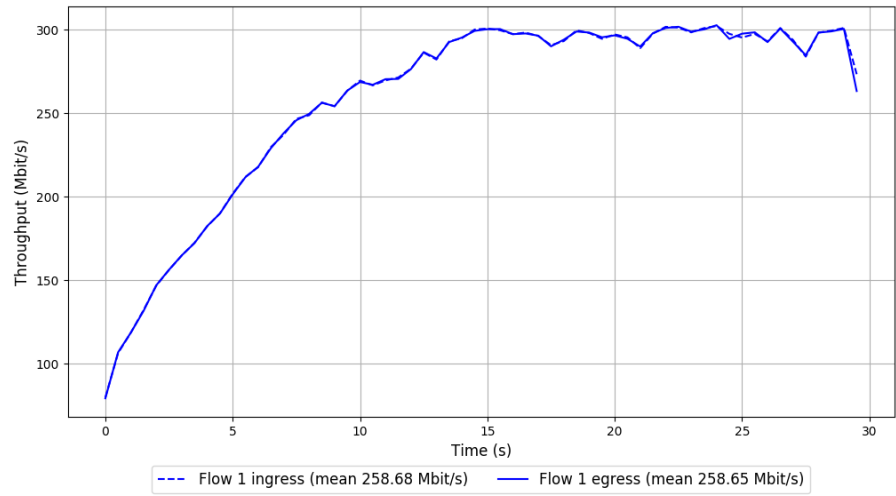


Run 10: Statistics of TCP Vegas

Start at: 2017-12-05 12:48:39
End at: 2017-12-05 12:49:09
Local clock offset: 0.962 ms
Remote clock offset: -1.747 ms

Below is generated by plot.py at 2017-12-05 17:22:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 258.65 Mbit/s
95th percentile per-packet one-way delay: 1.225 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 258.65 Mbit/s
95th percentile per-packet one-way delay: 1.225 ms
Loss rate: 0.08%

Run 10: Report of TCP Vegas — Data Link

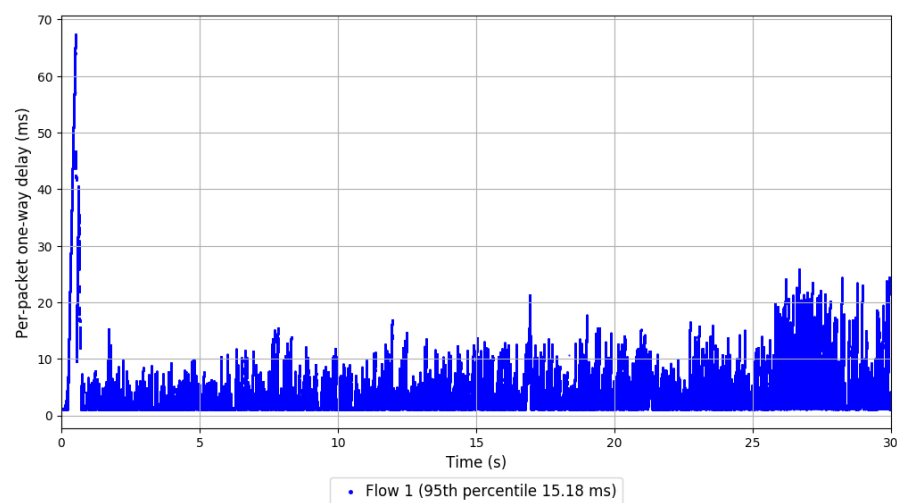
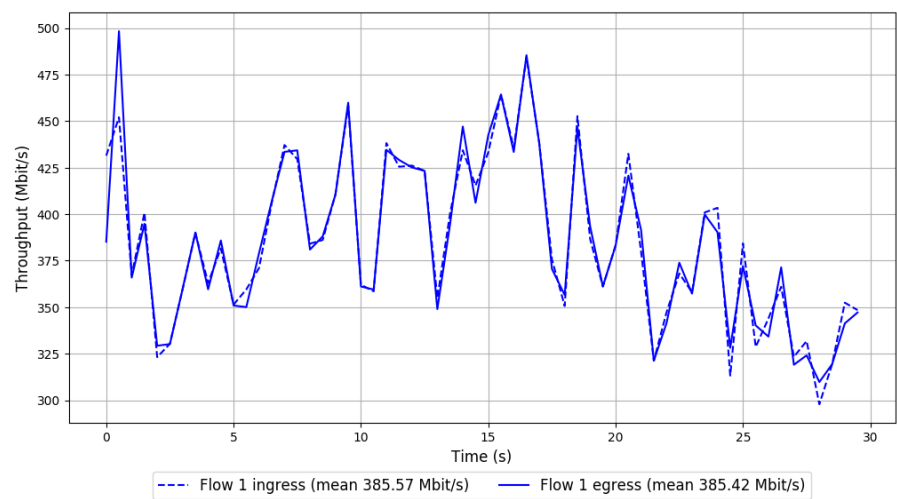


Run 1: Statistics of Verus

Start at: 2017-12-05 09:57:11
End at: 2017-12-05 09:57:41
Local clock offset: 3.264 ms
Remote clock offset: -2.084 ms

Below is generated by plot.py at 2017-12-05 17:23:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 385.42 Mbit/s
95th percentile per-packet one-way delay: 15.180 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 385.42 Mbit/s
95th percentile per-packet one-way delay: 15.180 ms
Loss rate: 0.05%

Run 1: Report of Verus — Data Link

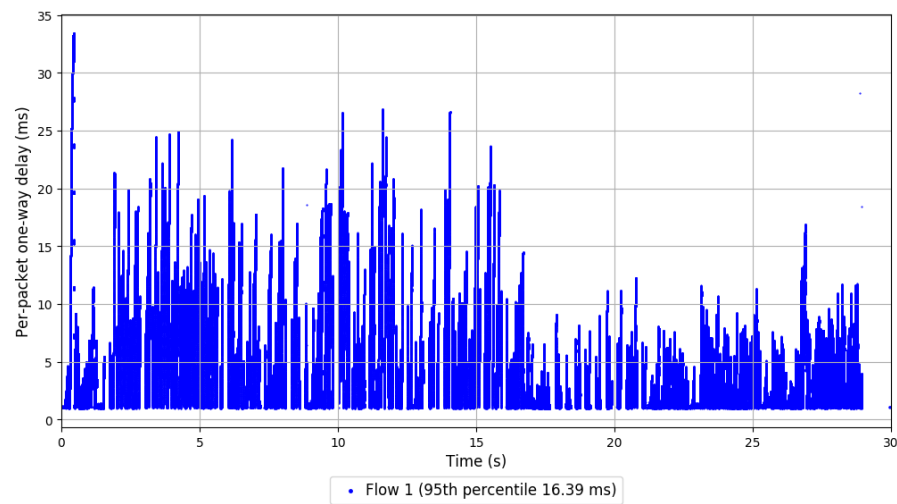
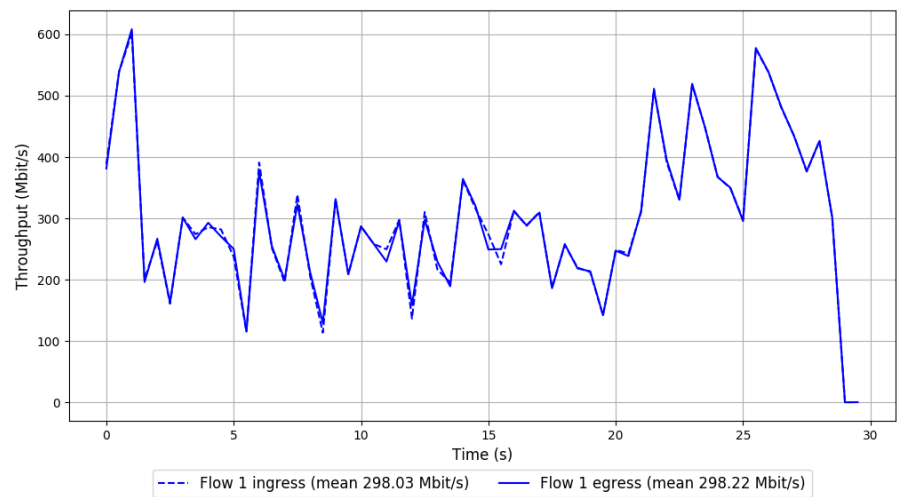


Run 2: Statistics of Verus

Start at: 2017-12-05 10:16:21
End at: 2017-12-05 10:16:51
Local clock offset: 3.076 ms
Remote clock offset: -1.901 ms

Below is generated by plot.py at 2017-12-05 17:23:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 298.22 Mbit/s
95th percentile per-packet one-way delay: 16.392 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 298.22 Mbit/s
95th percentile per-packet one-way delay: 16.392 ms
Loss rate: 0.00%

Run 2: Report of Verus — Data Link

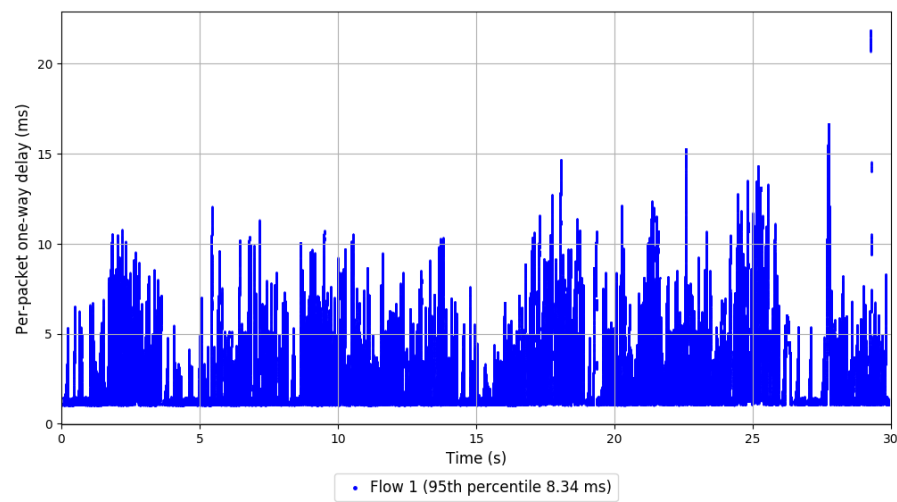
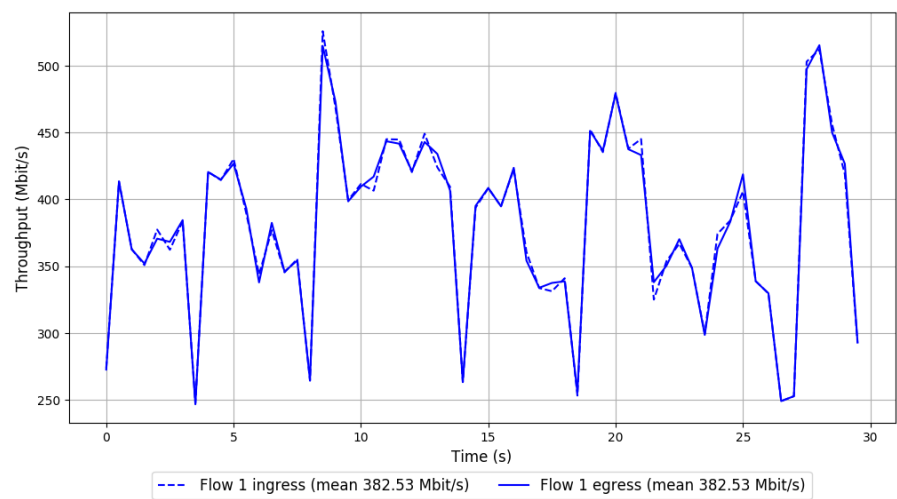


Run 3: Statistics of Verus

Start at: 2017-12-05 10:35:19
End at: 2017-12-05 10:35:49
Local clock offset: 2.602 ms
Remote clock offset: -1.699 ms

Below is generated by plot.py at 2017-12-05 17:24:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 382.53 Mbit/s
95th percentile per-packet one-way delay: 8.339 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 382.53 Mbit/s
95th percentile per-packet one-way delay: 8.339 ms
Loss rate: 0.00%

Run 3: Report of Verus — Data Link

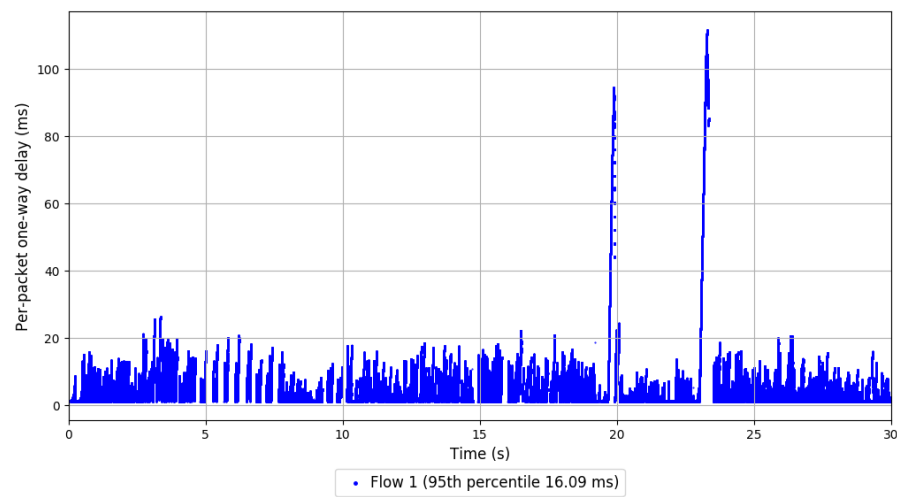
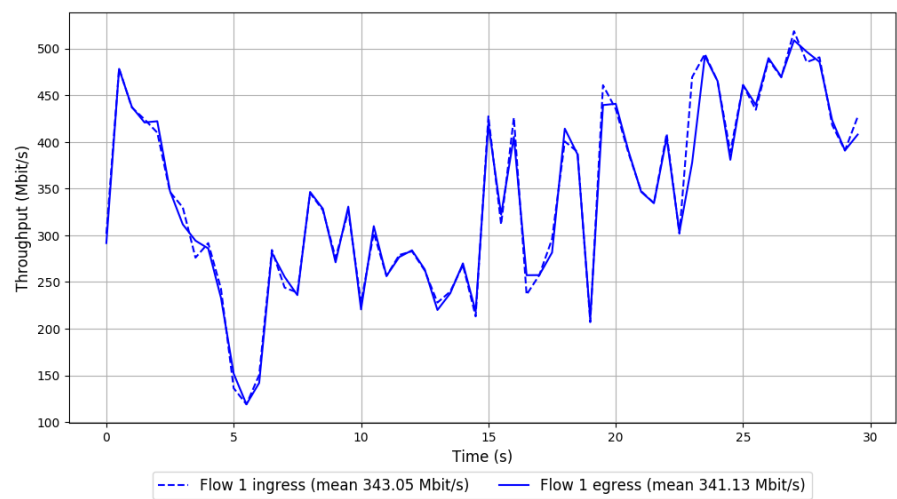


Run 4: Statistics of Verus

Start at: 2017-12-05 10:54:30
End at: 2017-12-05 10:55:00
Local clock offset: 2.203 ms
Remote clock offset: -1.531 ms

Below is generated by plot.py at 2017-12-05 17:24:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 341.13 Mbit/s
95th percentile per-packet one-way delay: 16.089 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 341.13 Mbit/s
95th percentile per-packet one-way delay: 16.089 ms
Loss rate: 0.63%

Run 4: Report of Verus — Data Link

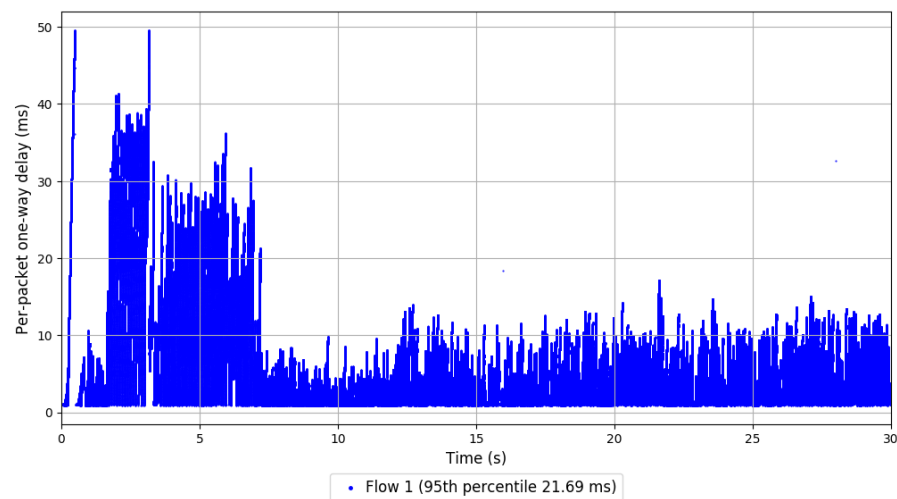
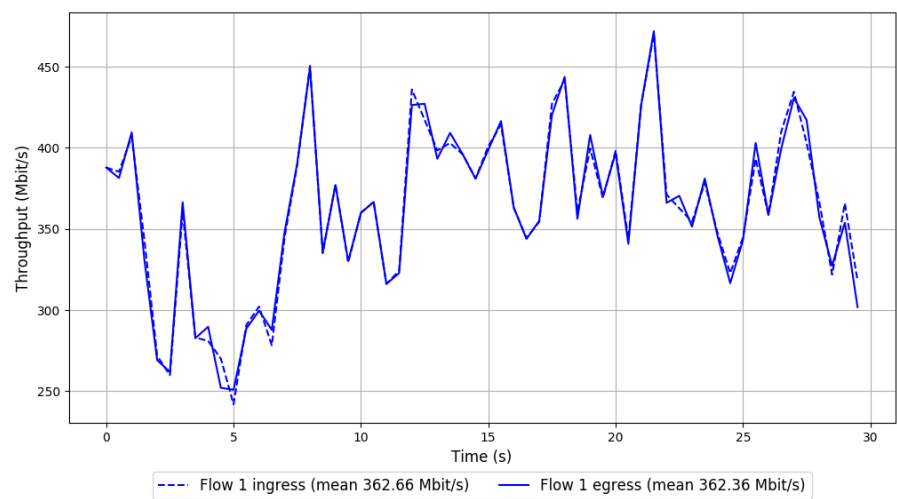


Run 5: Statistics of Verus

Start at: 2017-12-05 11:13:42
End at: 2017-12-05 11:14:12
Local clock offset: 2.05 ms
Remote clock offset: -1.628 ms

Below is generated by plot.py at 2017-12-05 17:25:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 362.36 Mbit/s
95th percentile per-packet one-way delay: 21.688 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 362.36 Mbit/s
95th percentile per-packet one-way delay: 21.688 ms
Loss rate: 0.15%

Run 5: Report of Verus — Data Link

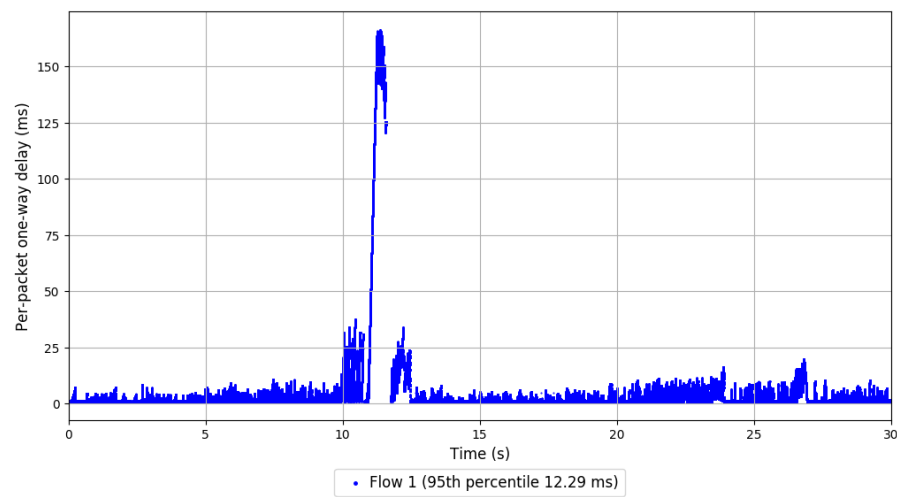
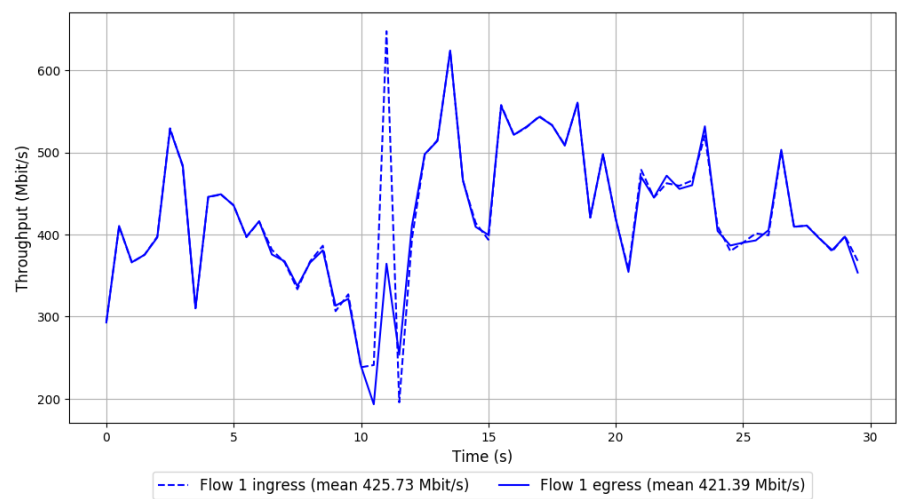


Run 6: Statistics of Verus

Start at: 2017-12-05 11:32:50
End at: 2017-12-05 11:33:20
Local clock offset: 2.042 ms
Remote clock offset: -1.688 ms

Below is generated by plot.py at 2017-12-05 17:27:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 421.39 Mbit/s
95th percentile per-packet one-way delay: 12.295 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 421.39 Mbit/s
95th percentile per-packet one-way delay: 12.295 ms
Loss rate: 1.08%

Run 6: Report of Verus — Data Link

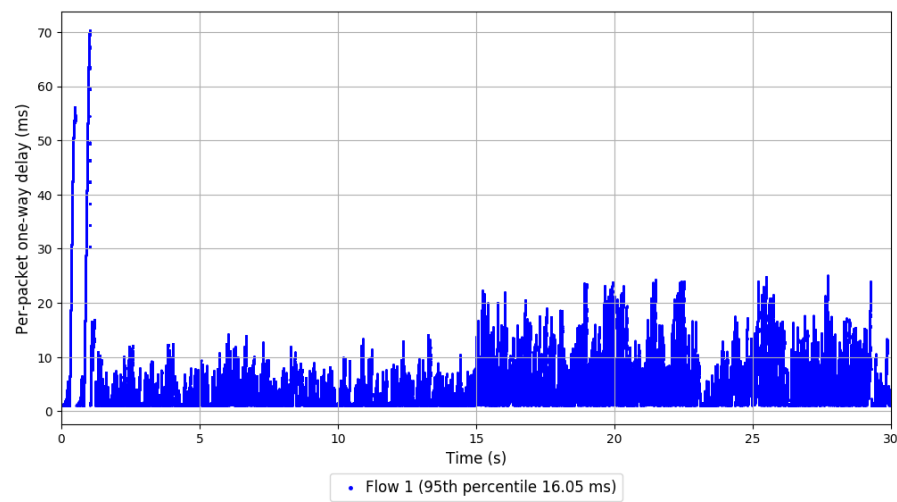
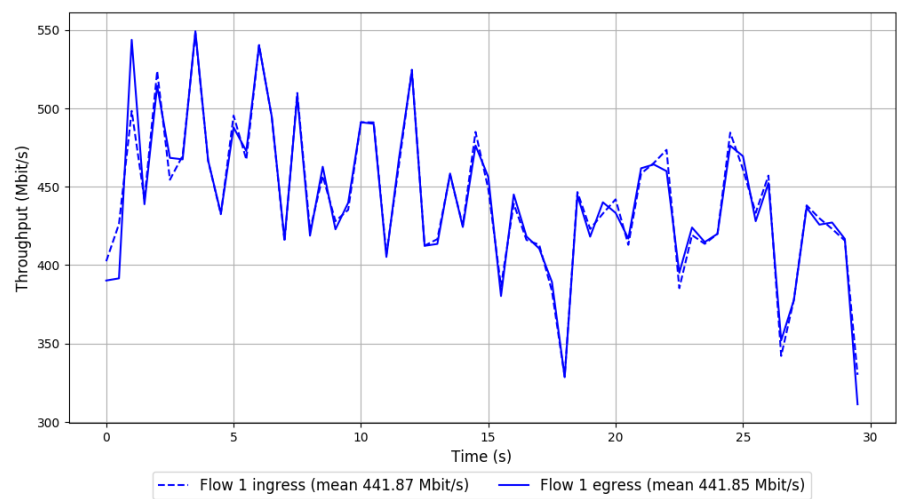


Run 7: Statistics of Verus

Start at: 2017-12-05 11:52:08
End at: 2017-12-05 11:52:38
Local clock offset: 1.861 ms
Remote clock offset: -1.647 ms

Below is generated by plot.py at 2017-12-05 17:28:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 441.85 Mbit/s
95th percentile per-packet one-way delay: 16.054 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 441.85 Mbit/s
95th percentile per-packet one-way delay: 16.054 ms
Loss rate: 0.07%

Run 7: Report of Verus — Data Link

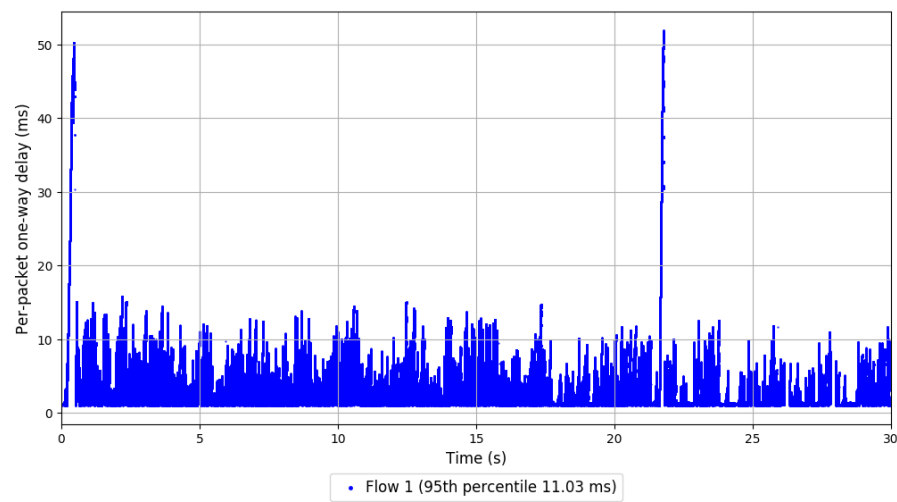
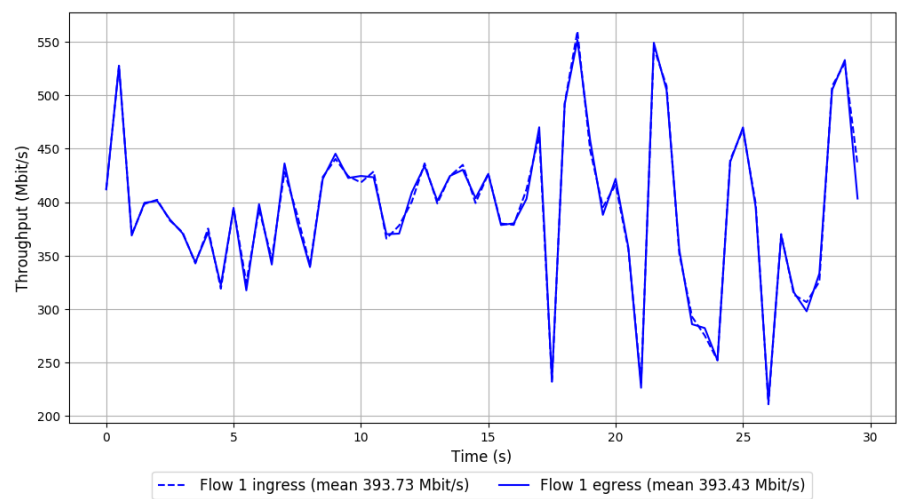


Run 8: Statistics of Verus

Start at: 2017-12-05 12:11:30
End at: 2017-12-05 12:12:00
Local clock offset: 1.47 ms
Remote clock offset: -1.445 ms

Below is generated by plot.py at 2017-12-05 17:28:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 393.43 Mbit/s
95th percentile per-packet one-way delay: 11.032 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 393.43 Mbit/s
95th percentile per-packet one-way delay: 11.032 ms
Loss rate: 0.14%

Run 8: Report of Verus — Data Link

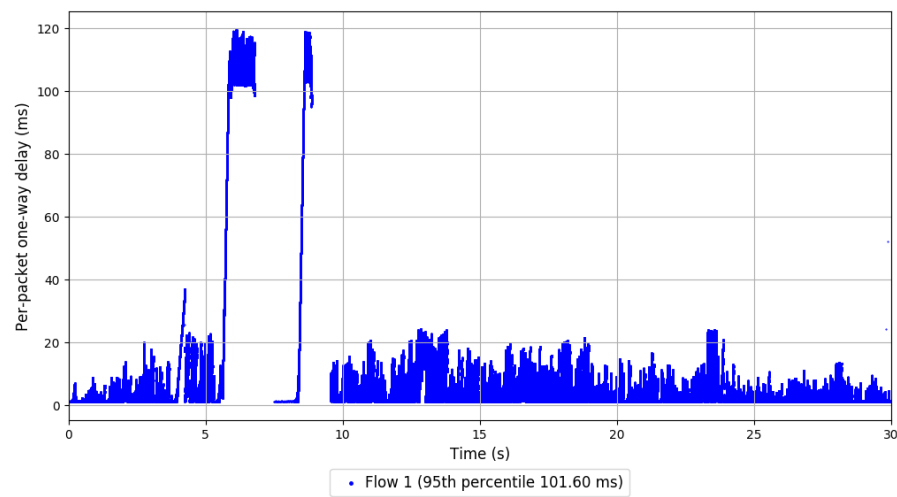
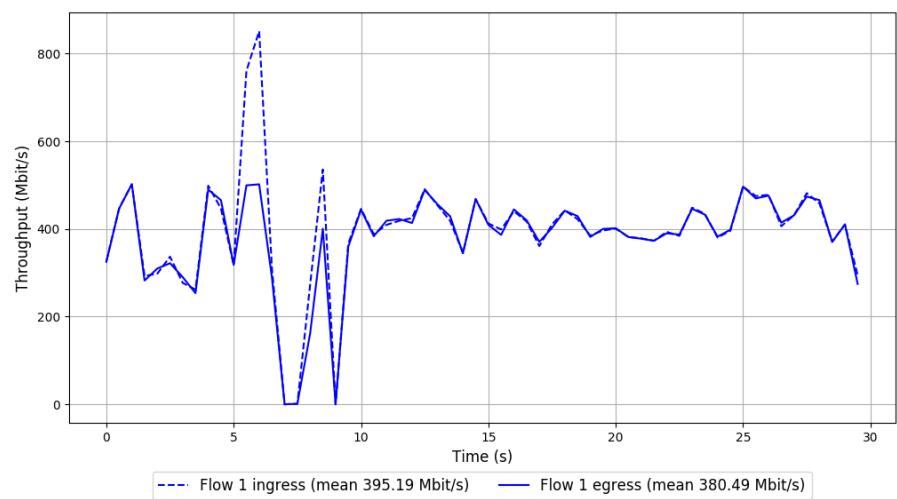


Run 9: Statistics of Verus

Start at: 2017-12-05 12:30:42
End at: 2017-12-05 12:31:12
Local clock offset: 1.188 ms
Remote clock offset: -1.666 ms

Below is generated by plot.py at 2017-12-05 17:28:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 380.49 Mbit/s
95th percentile per-packet one-way delay: 101.597 ms
Loss rate: 3.78%
-- Flow 1:
Average throughput: 380.49 Mbit/s
95th percentile per-packet one-way delay: 101.597 ms
Loss rate: 3.78%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-12-05 12:49:59

End at: 2017-12-05 12:50:29

Local clock offset: 1.06 ms

Remote clock offset: -1.73 ms

Below is generated by plot.py at 2017-12-05 17:28:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 375.82 Mbit/s

95th percentile per-packet one-way delay: 12.682 ms

Loss rate: 0.14%

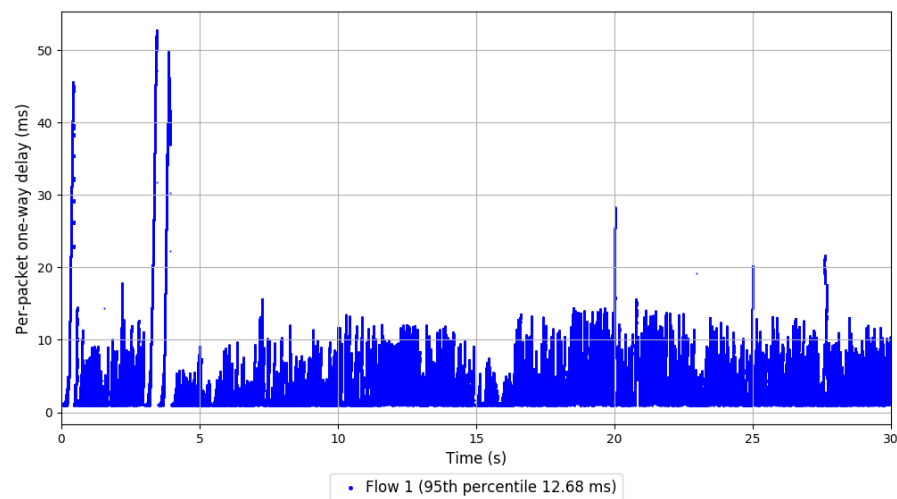
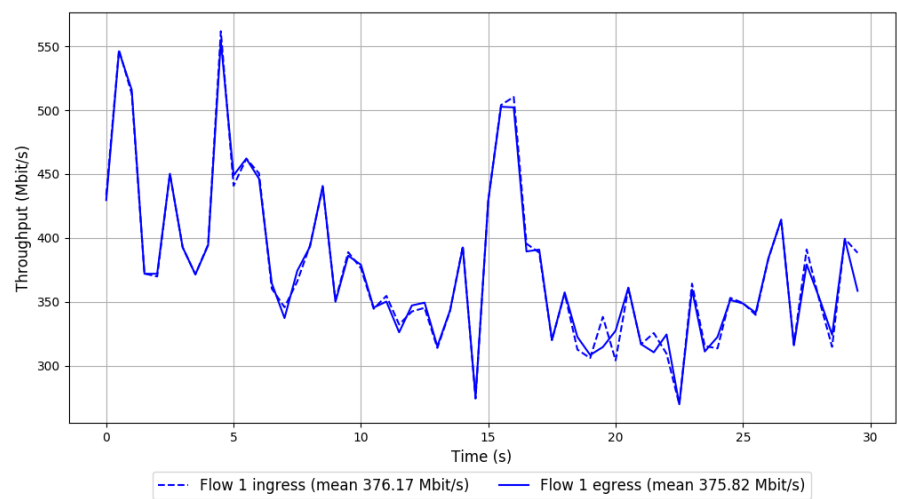
-- Flow 1:

Average throughput: 375.82 Mbit/s

95th percentile per-packet one-way delay: 12.682 ms

Loss rate: 0.14%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-12-05 09:54:34

End at: 2017-12-05 09:55:04

Local clock offset: 3.188 ms

Remote clock offset: -2.05 ms

Below is generated by plot.py at 2017-12-05 17:28:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.28 Mbit/s

95th percentile per-packet one-way delay: 1.152 ms

Loss rate: 0.07%

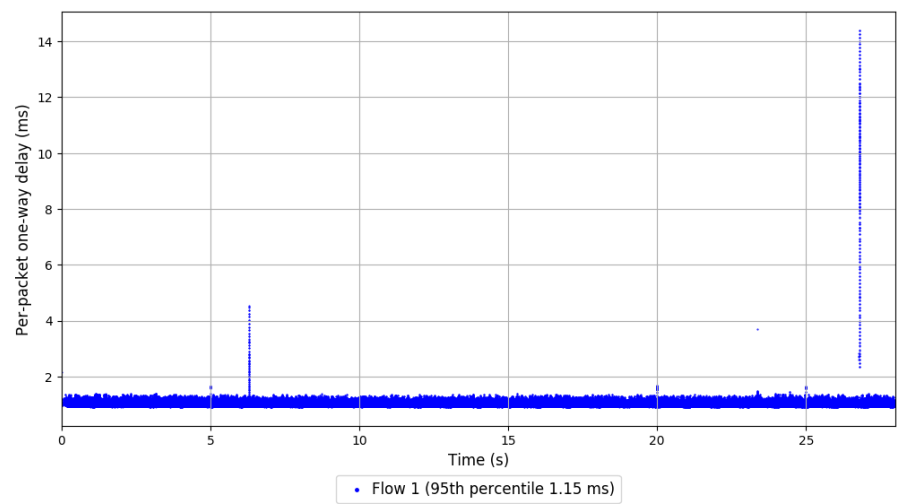
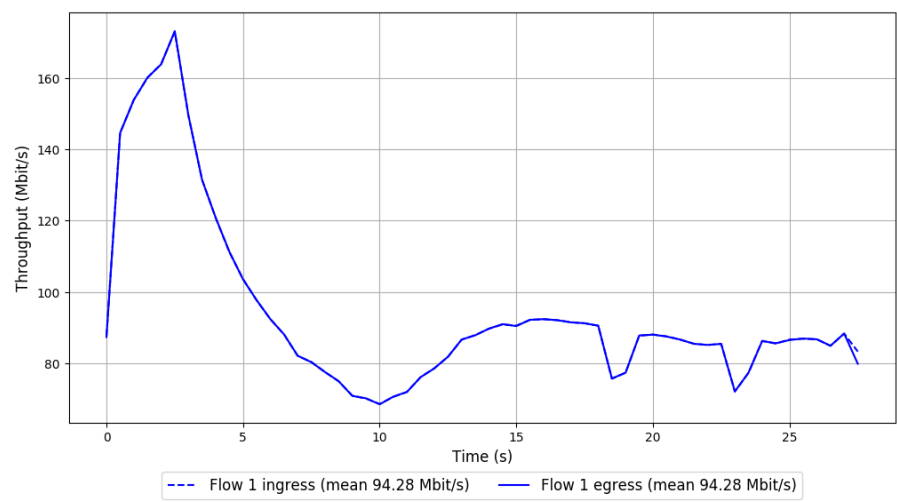
-- Flow 1:

Average throughput: 94.28 Mbit/s

95th percentile per-packet one-way delay: 1.152 ms

Loss rate: 0.07%

Run 1: Report of Copa — Data Link

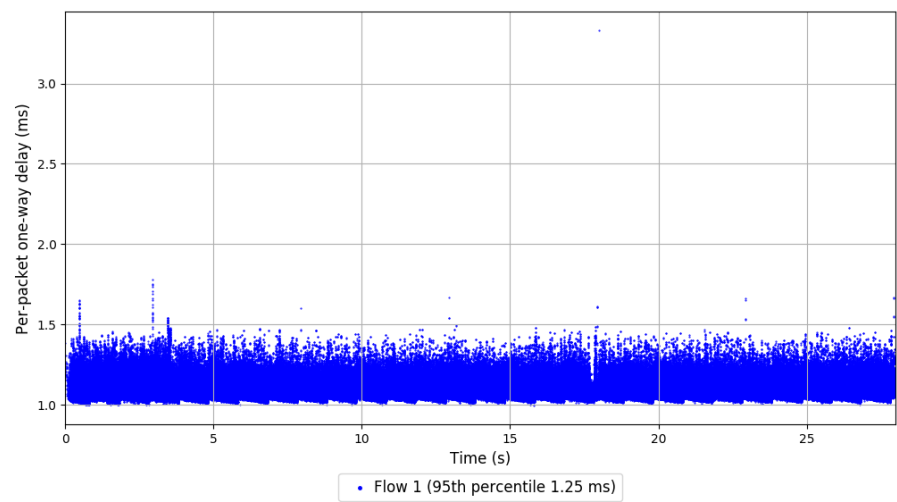
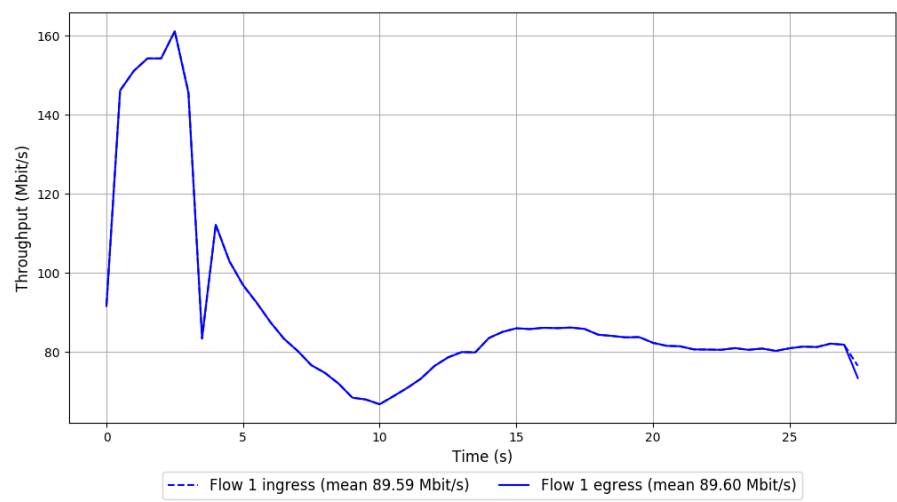


Run 2: Statistics of Copa

Start at: 2017-12-05 10:13:44
End at: 2017-12-05 10:14:14
Local clock offset: 3.127 ms
Remote clock offset: -1.937 ms

Below is generated by plot.py at 2017-12-05 17:28:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.60 Mbit/s
95th percentile per-packet one-way delay: 1.252 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 89.60 Mbit/s
95th percentile per-packet one-way delay: 1.252 ms
Loss rate: 0.06%

Run 2: Report of Copa — Data Link

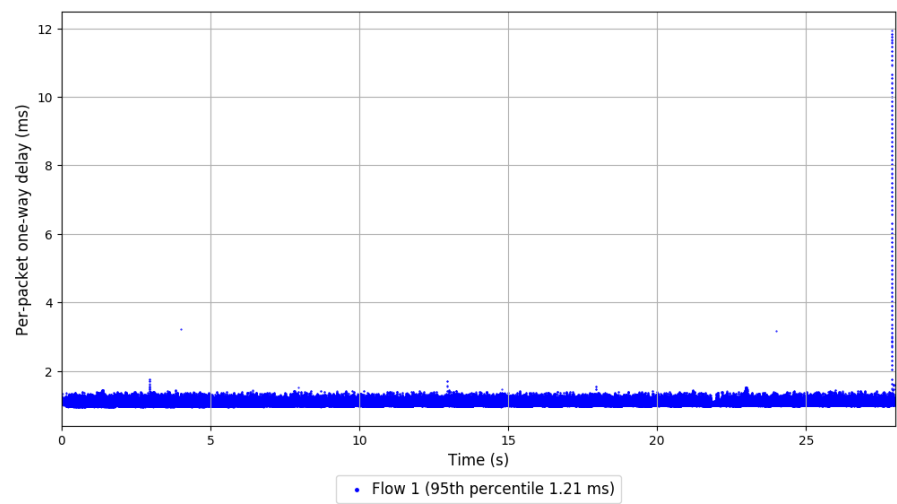
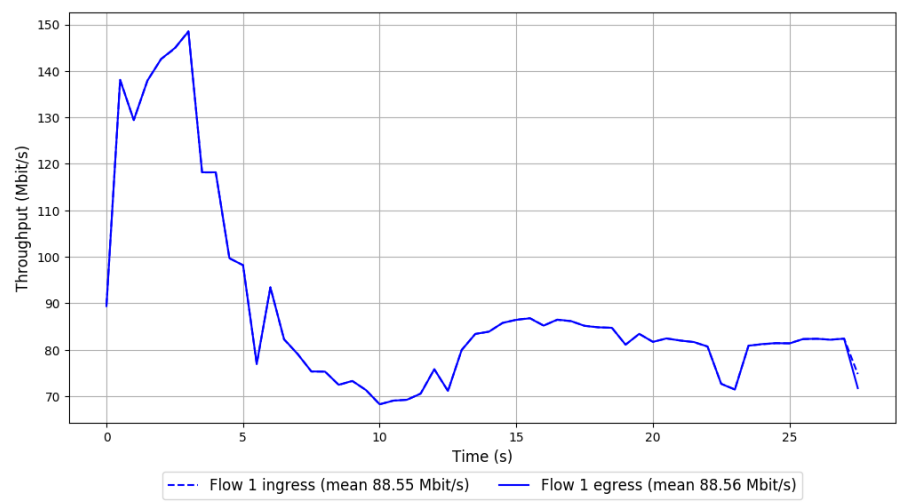


Run 3: Statistics of Copa

Start at: 2017-12-05 10:32:40
End at: 2017-12-05 10:33:10
Local clock offset: 2.602 ms
Remote clock offset: -1.796 ms

Below is generated by plot.py at 2017-12-05 17:28:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.56 Mbit/s
95th percentile per-packet one-way delay: 1.205 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 88.56 Mbit/s
95th percentile per-packet one-way delay: 1.205 ms
Loss rate: 0.06%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-12-05 10:51:53

End at: 2017-12-05 10:52:23

Local clock offset: 2.225 ms

Remote clock offset: -1.58 ms

Below is generated by plot.py at 2017-12-05 17:29:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.15 Mbit/s

95th percentile per-packet one-way delay: 1.265 ms

Loss rate: 0.07%

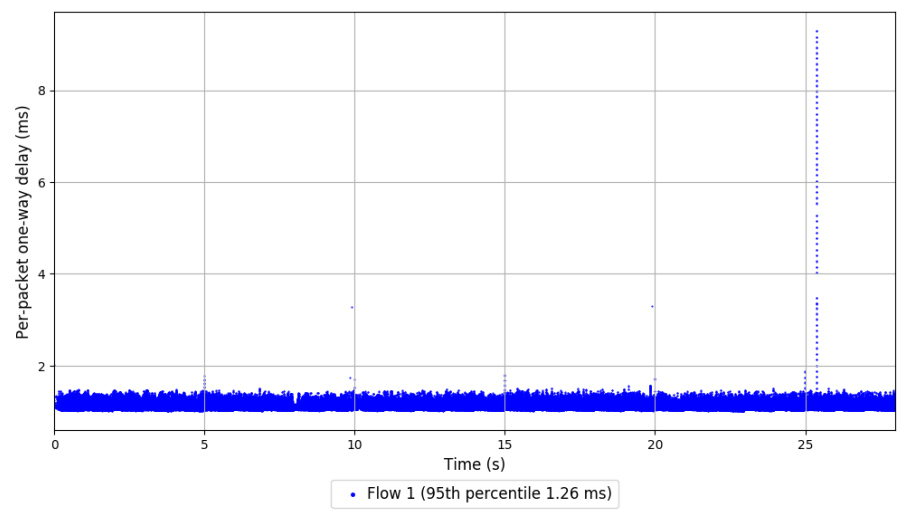
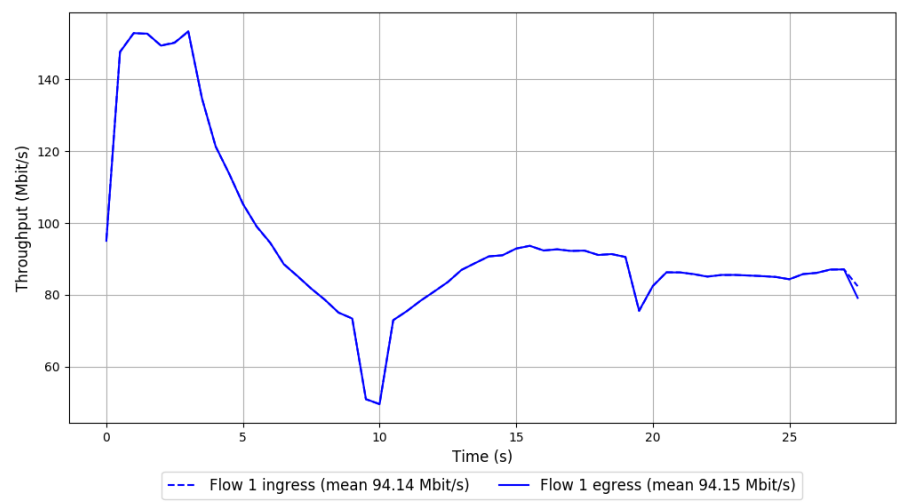
-- Flow 1:

Average throughput: 94.15 Mbit/s

95th percentile per-packet one-way delay: 1.265 ms

Loss rate: 0.07%

Run 4: Report of Copa — Data Link

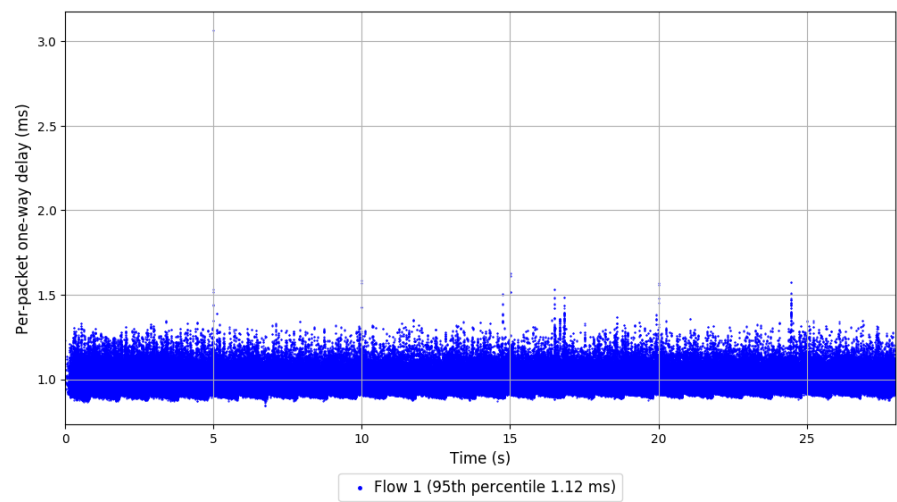
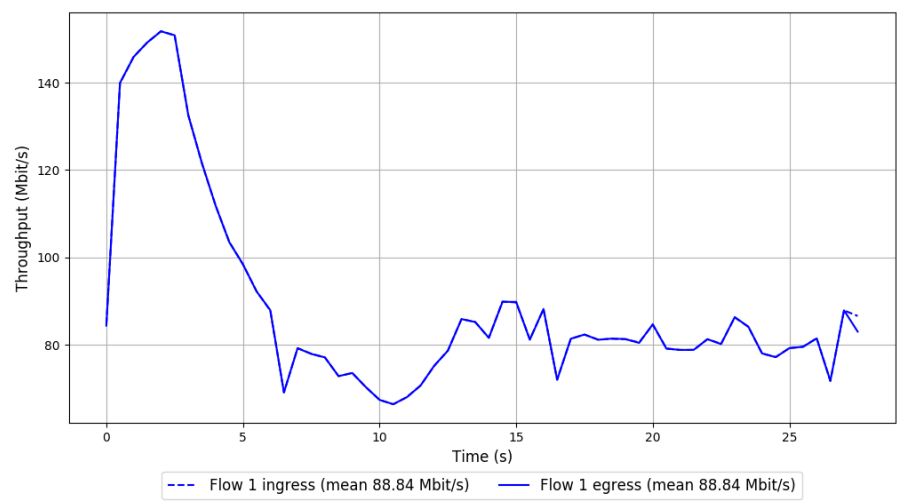


Run 5: Statistics of Copa

Start at: 2017-12-05 11:11:04
End at: 2017-12-05 11:11:34
Local clock offset: 2.065 ms
Remote clock offset: -1.683 ms

Below is generated by plot.py at 2017-12-05 17:29:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.84 Mbit/s
95th percentile per-packet one-way delay: 1.124 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 88.84 Mbit/s
95th percentile per-packet one-way delay: 1.124 ms
Loss rate: 0.08%

Run 5: Report of Copa — Data Link

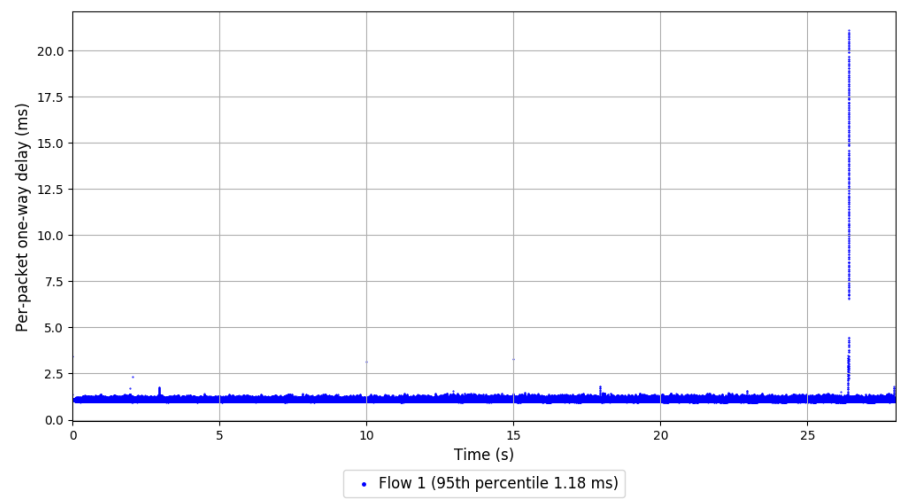
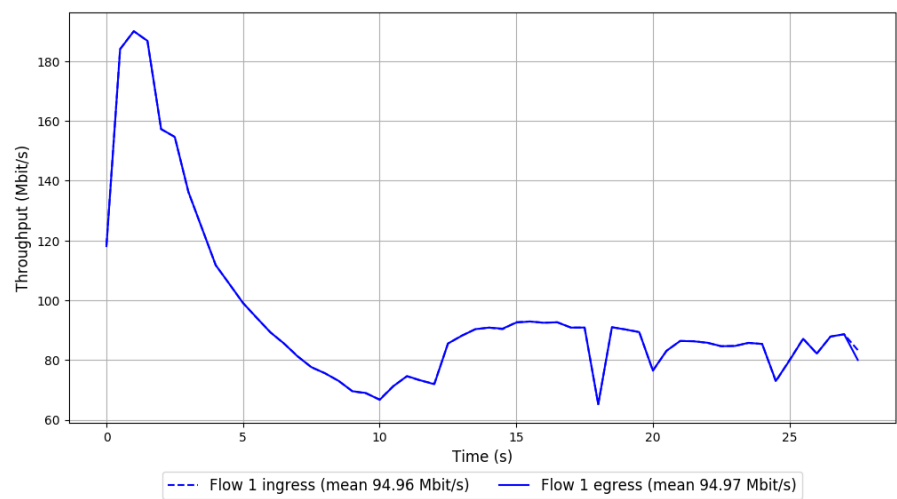


Run 6: Statistics of Copa

Start at: 2017-12-05 11:30:12
End at: 2017-12-05 11:30:42
Local clock offset: 2.136 ms
Remote clock offset: -1.582 ms

Below is generated by plot.py at 2017-12-05 17:30:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.97 Mbit/s
95th percentile per-packet one-way delay: 1.184 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 94.97 Mbit/s
95th percentile per-packet one-way delay: 1.184 ms
Loss rate: 0.07%

Run 6: Report of Copa — Data Link

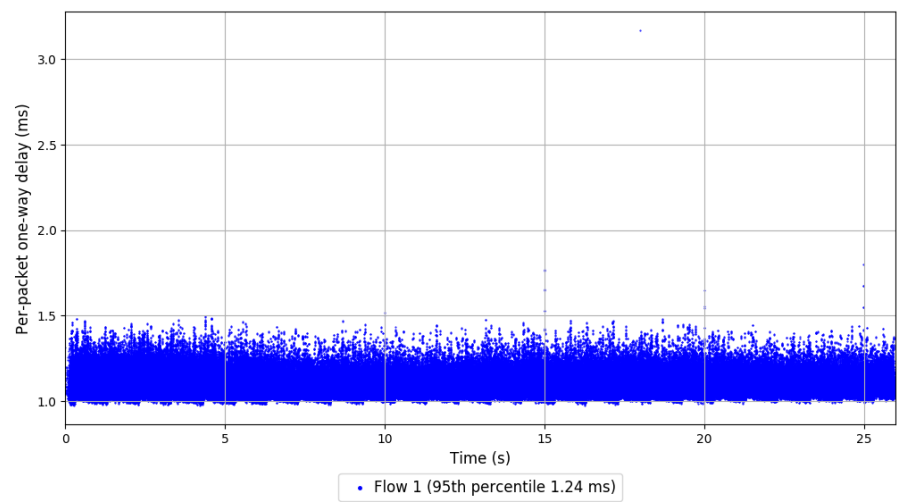
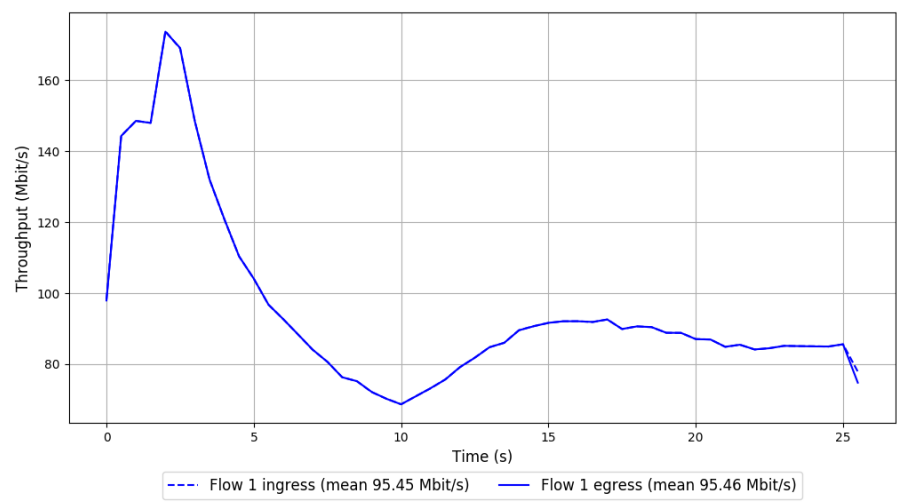


Run 7: Statistics of Copa

Start at: 2017-12-05 11:49:31
End at: 2017-12-05 11:50:01
Local clock offset: 1.927 ms
Remote clock offset: -1.597 ms

Below is generated by plot.py at 2017-12-05 17:30:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.46 Mbit/s
95th percentile per-packet one-way delay: 1.235 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 95.46 Mbit/s
95th percentile per-packet one-way delay: 1.235 ms
Loss rate: 0.07%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

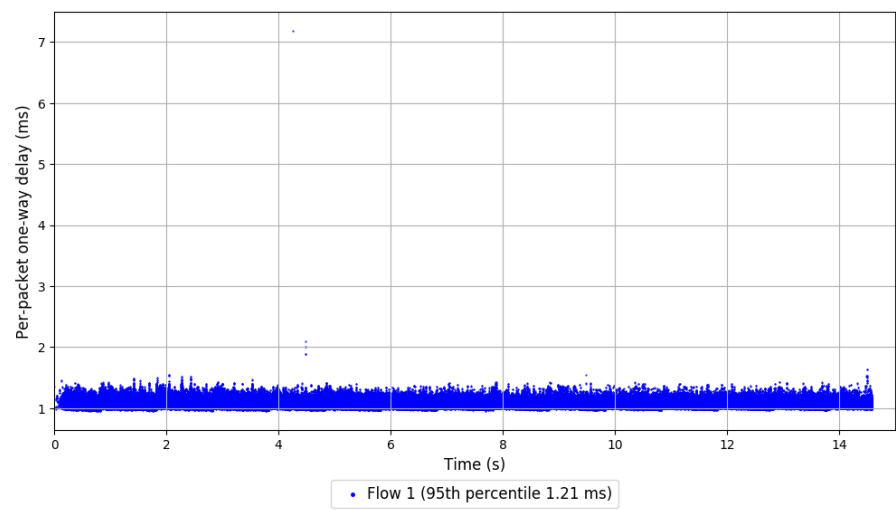
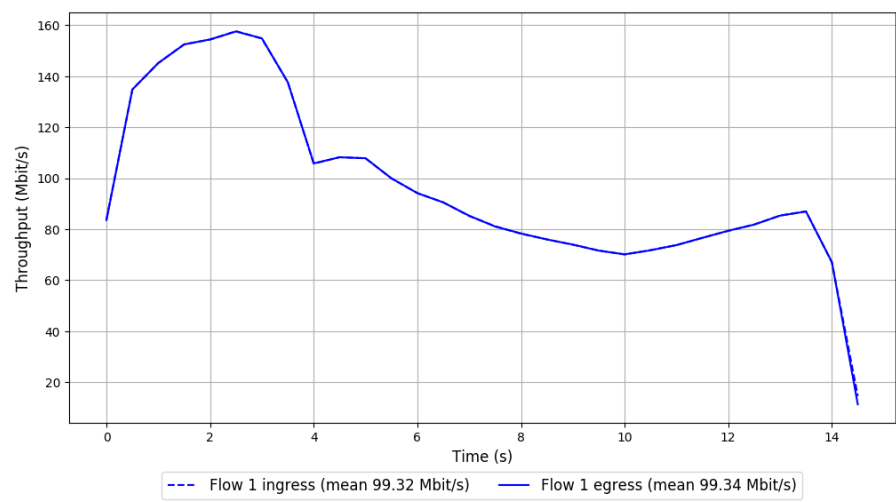
Start at: 2017-12-05 12:08:51

End at: 2017-12-05 12:09:21

Local clock offset: 1.501 ms

Remote clock offset: -1.491 ms

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

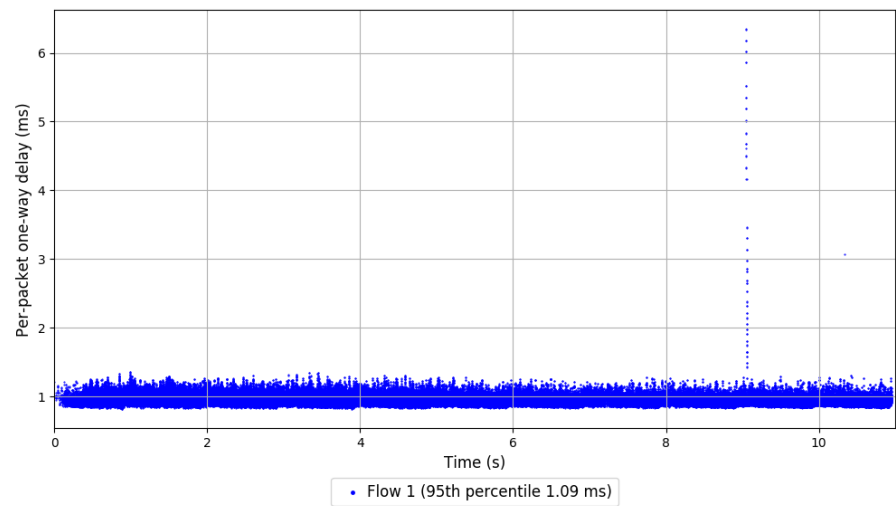
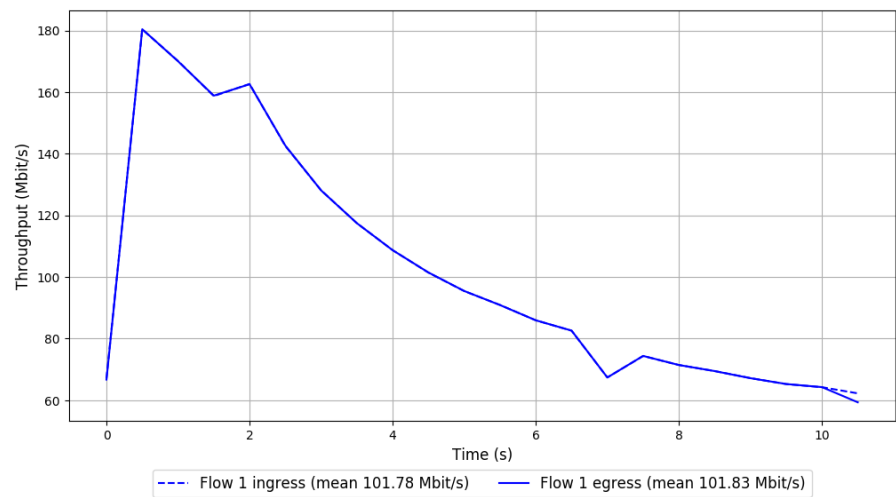
Start at: 2017-12-05 12:28:04

End at: 2017-12-05 12:28:35

Local clock offset: 1.141 ms

Remote clock offset: -1.575 ms

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-12-05 12:47:22

End at: 2017-12-05 12:47:53

Local clock offset: 0.983 ms

Remote clock offset: -1.86 ms

Below is generated by plot.py at 2017-12-05 17:31:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.31 Mbit/s

95th percentile per-packet one-way delay: 1.182 ms

Loss rate: 0.06%

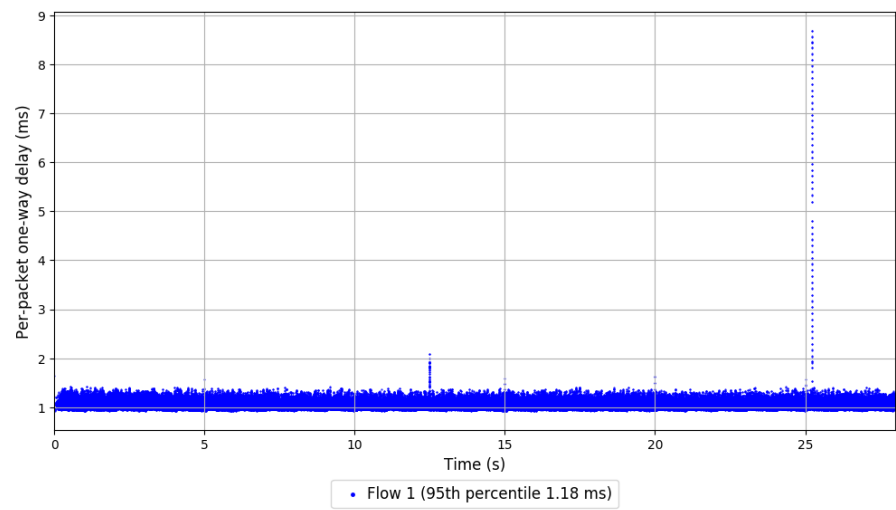
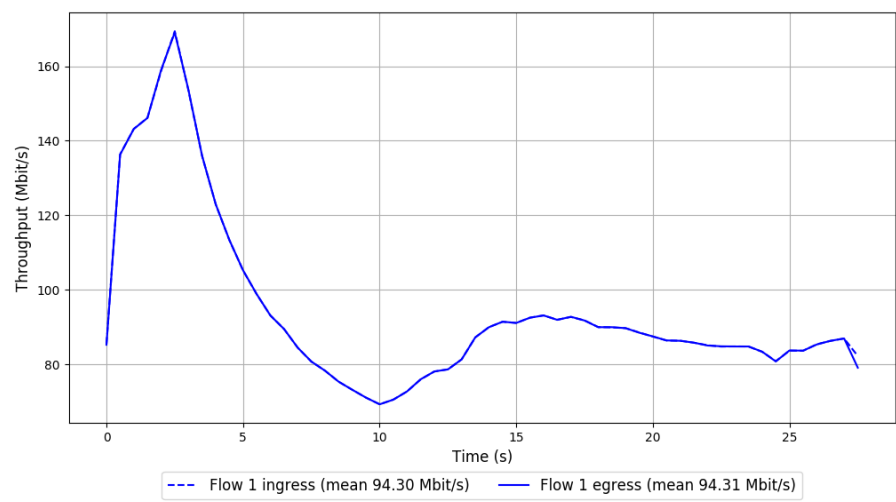
-- Flow 1:

Average throughput: 94.31 Mbit/s

95th percentile per-packet one-way delay: 1.182 ms

Loss rate: 0.06%

Run 10: Report of Copa — Data Link



Run 1: Statistics of Indigo

Start at: 2017-12-05 09:47:47

End at: 2017-12-05 09:48:17

Local clock offset: 3.162 ms

Remote clock offset: -1.882 ms

Below is generated by plot.py at 2017-12-05 17:31:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.52 Mbit/s

95th percentile per-packet one-way delay: 1.147 ms

Loss rate: 0.06%

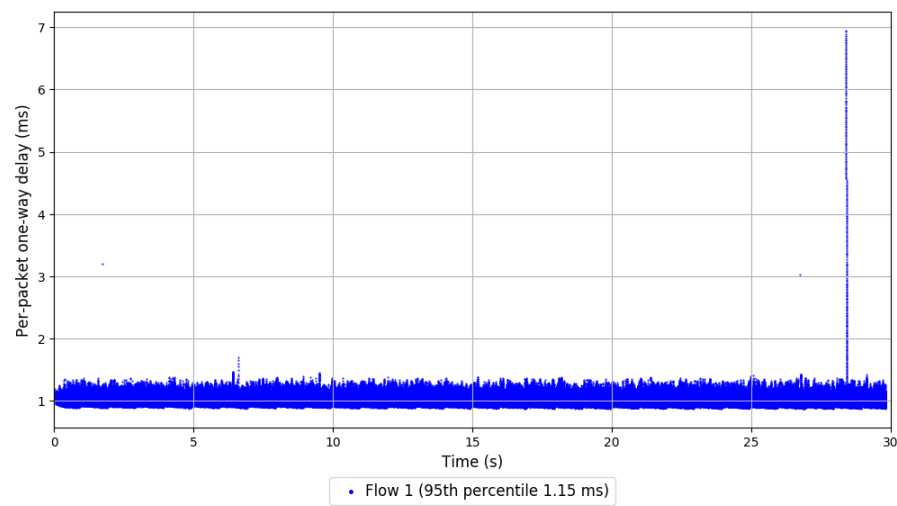
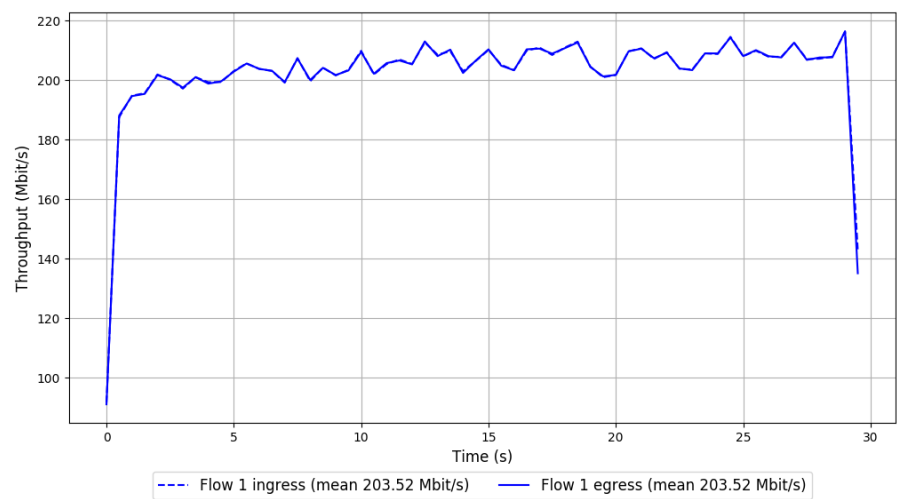
-- Flow 1:

Average throughput: 203.52 Mbit/s

95th percentile per-packet one-way delay: 1.147 ms

Loss rate: 0.06%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

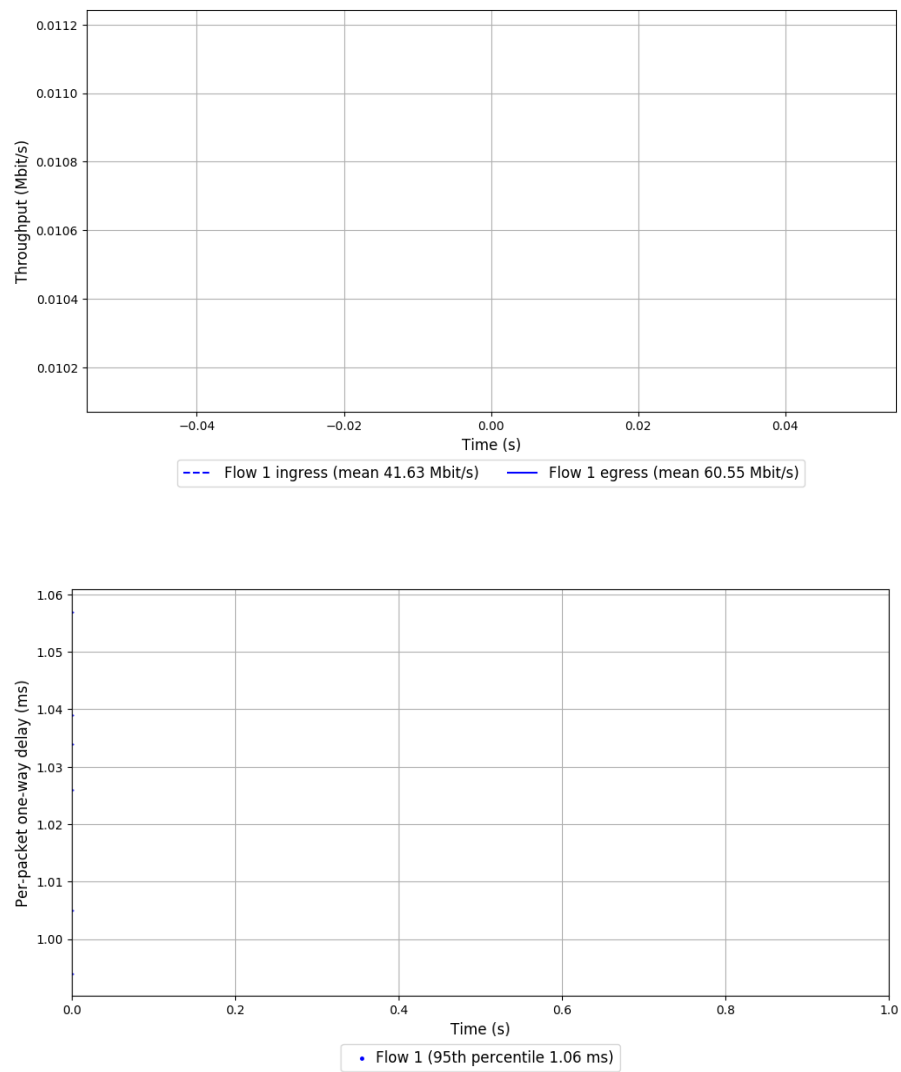
Start at: 2017-12-05 10:07:08

End at: 2017-12-05 10:07:38

Local clock offset: 3.209 ms

Remote clock offset: -1.941 ms

Run 2: Report of Indigo — Data Link

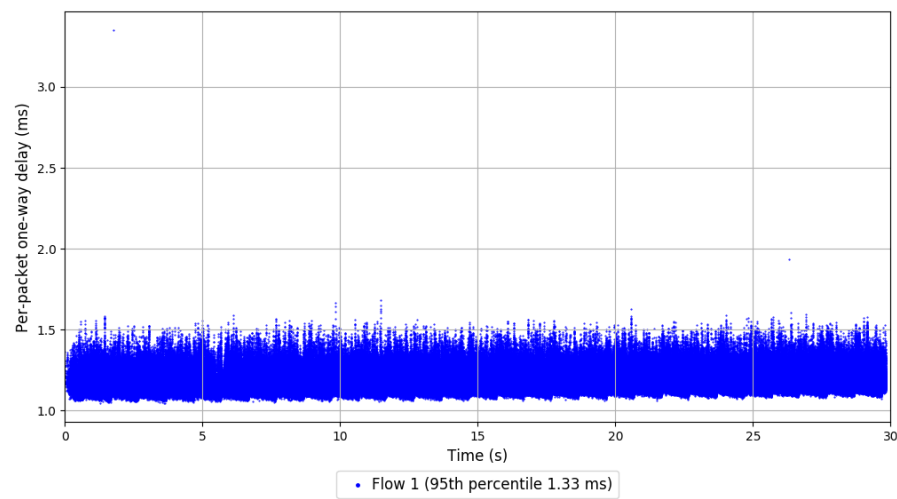
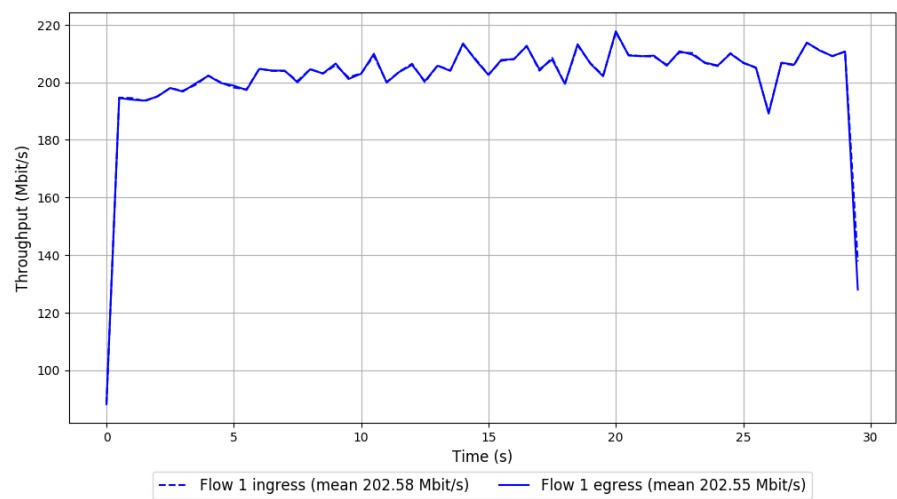


Run 3: Statistics of Indigo

Start at: 2017-12-05 10:25:59
End at: 2017-12-05 10:26:29
Local clock offset: 2.907 ms
Remote clock offset: -2.009 ms

Below is generated by plot.py at 2017-12-05 17:32:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 202.55 Mbit/s
95th percentile per-packet one-way delay: 1.334 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 202.55 Mbit/s
95th percentile per-packet one-way delay: 1.334 ms
Loss rate: 0.08%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

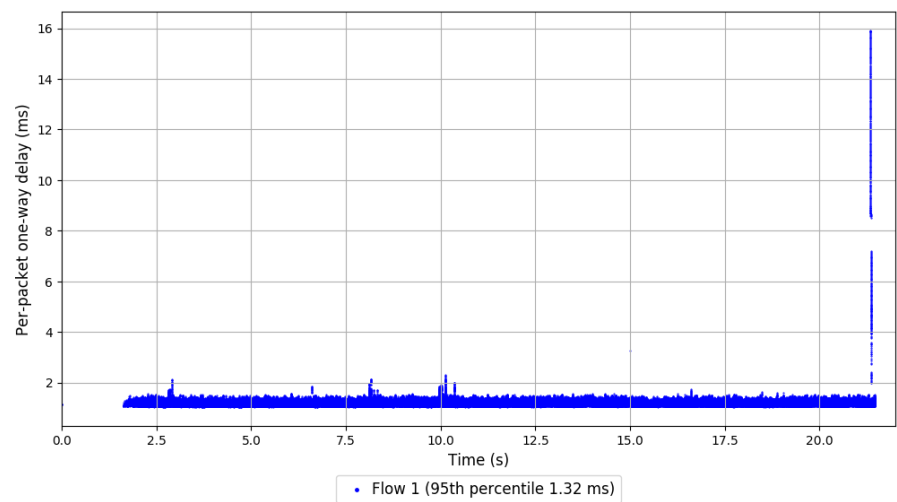
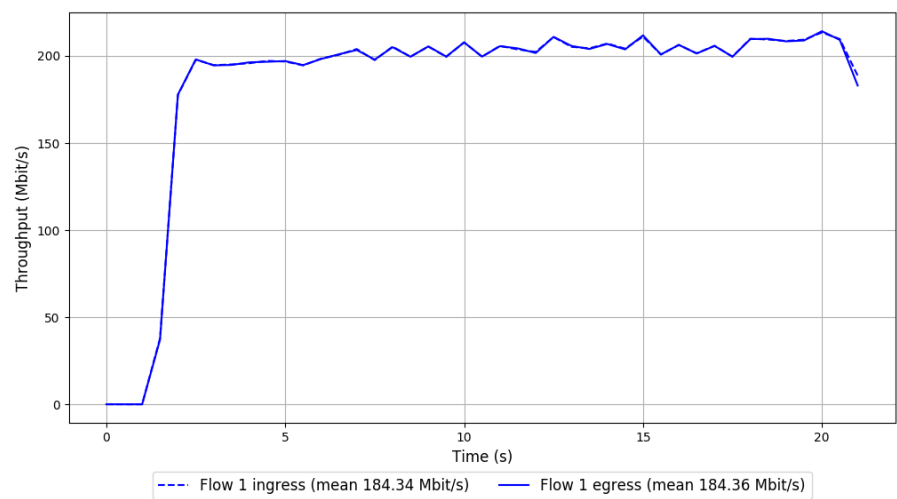
Start at: 2017-12-05 10:45:10

End at: 2017-12-05 10:45:40

Local clock offset: 2.377 ms

Remote clock offset: -1.518 ms

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

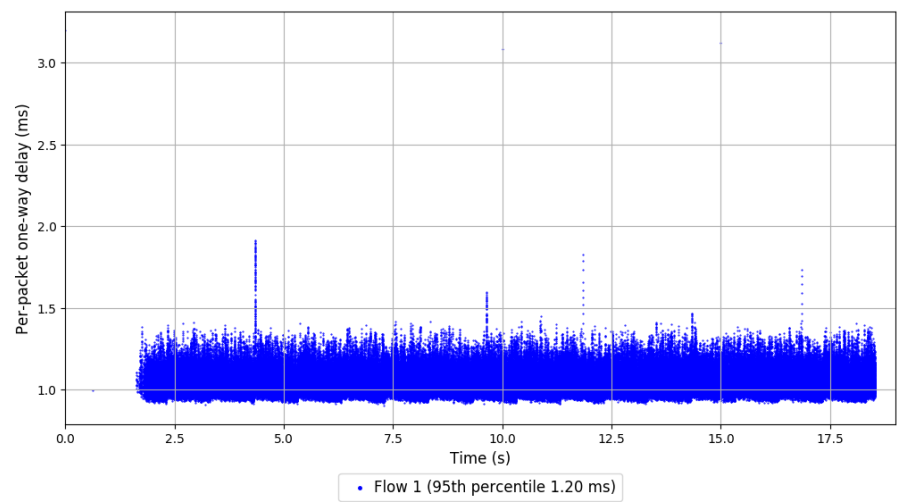
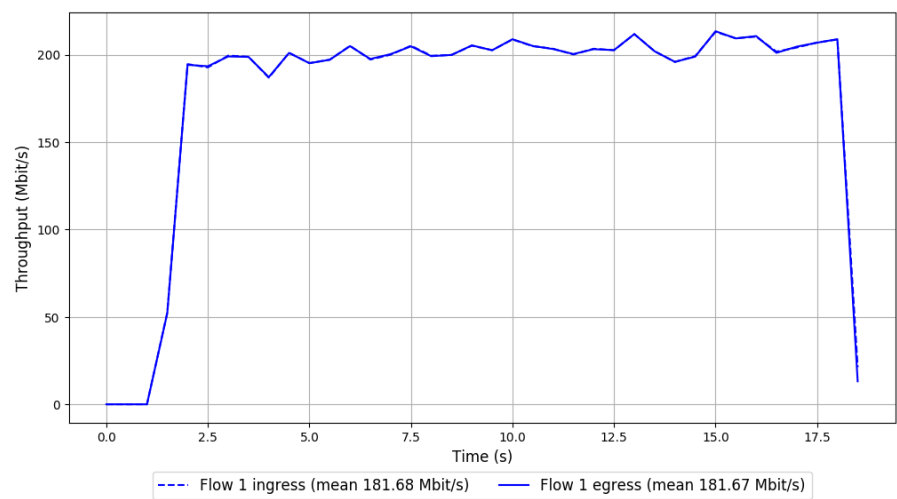
Start at: 2017-12-05 11:04:22

End at: 2017-12-05 11:04:52

Local clock offset: 2.171 ms

Remote clock offset: -1.645 ms

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-12-05 11:23:24

End at: 2017-12-05 11:23:54

Local clock offset: 2.127 ms

Remote clock offset: -1.442 ms

Below is generated by plot.py at 2017-12-05 17:32:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.61 Mbit/s

95th percentile per-packet one-way delay: 1.213 ms

Loss rate: 0.08%

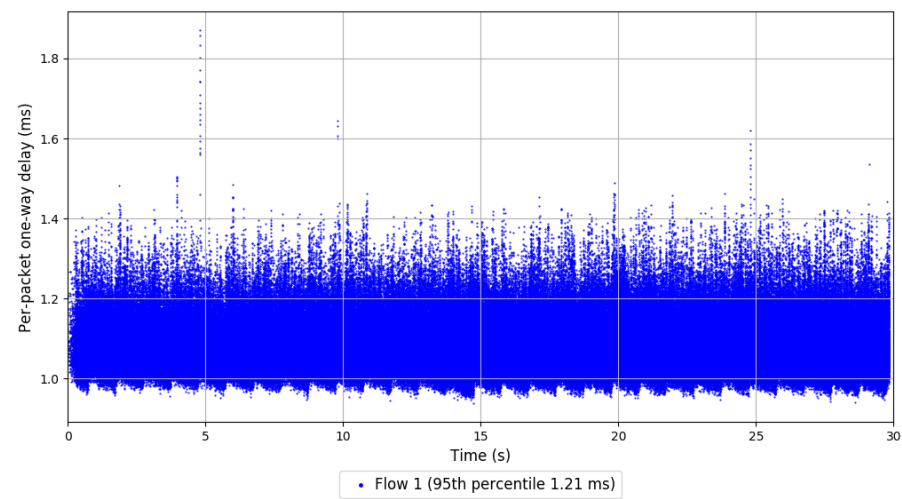
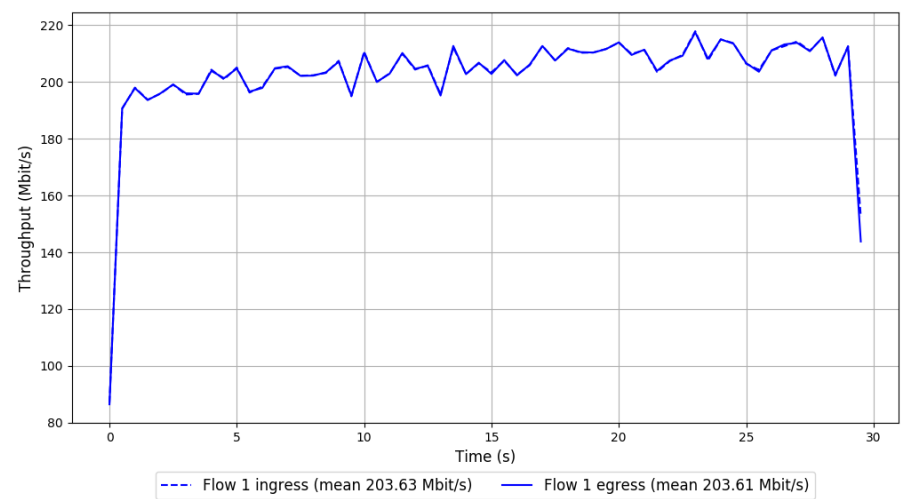
-- Flow 1:

Average throughput: 203.61 Mbit/s

95th percentile per-packet one-way delay: 1.213 ms

Loss rate: 0.08%

Run 6: Report of Indigo — Data Link

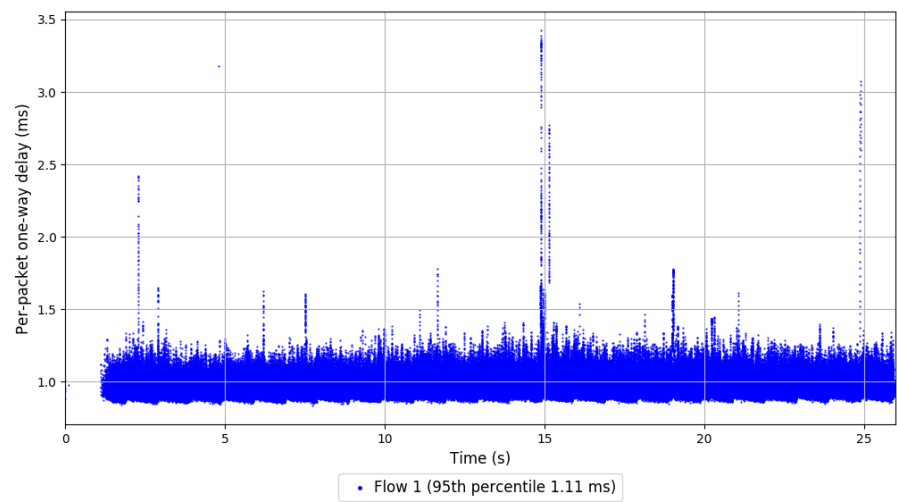
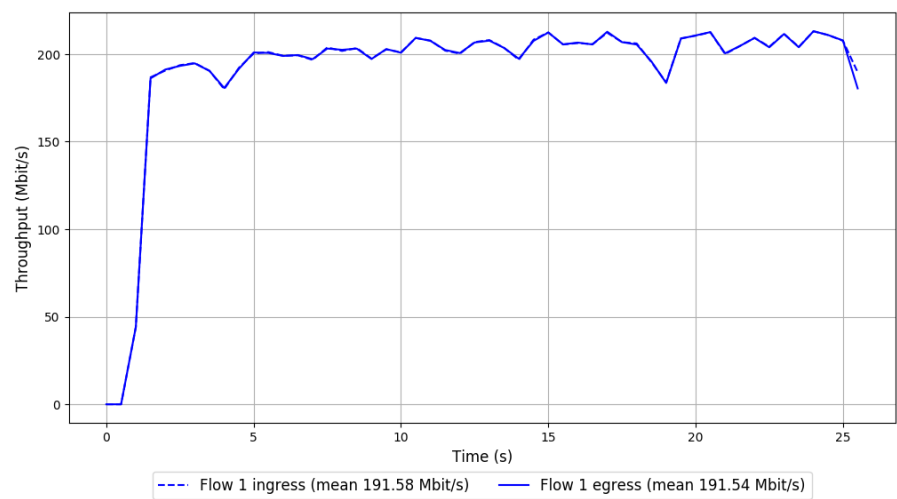


Run 7: Statistics of Indigo

Start at: 2017-12-05 11:42:47
End at: 2017-12-05 11:43:17
Local clock offset: 1.914 ms
Remote clock offset: -1.606 ms

Below is generated by plot.py at 2017-12-05 17:32:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 191.54 Mbit/s
95th percentile per-packet one-way delay: 1.108 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 191.54 Mbit/s
95th percentile per-packet one-way delay: 1.108 ms
Loss rate: 0.10%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

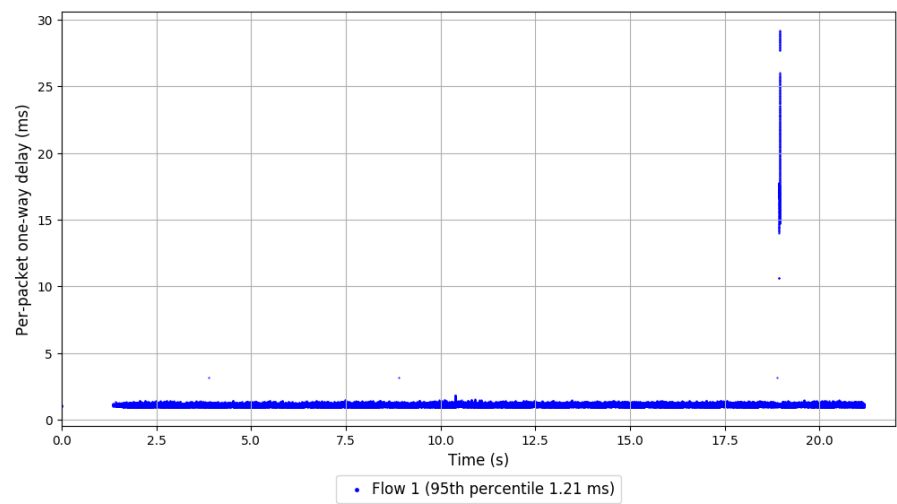
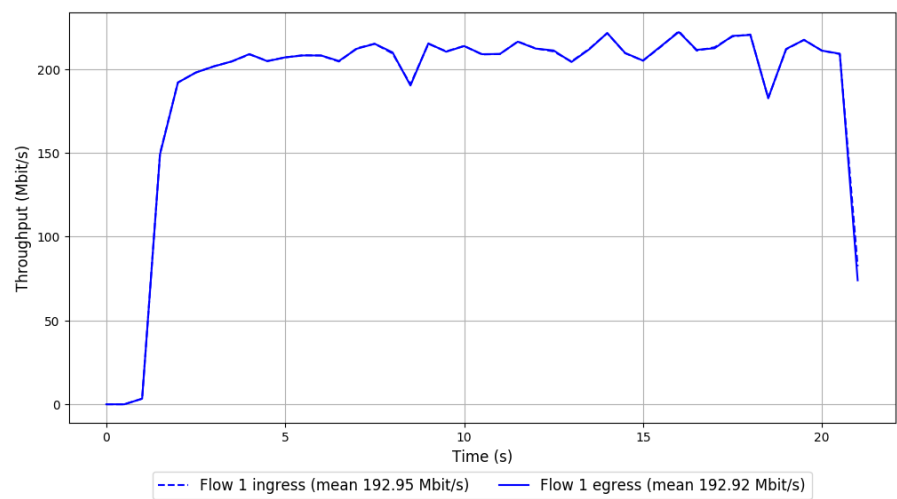
Start at: 2017-12-05 12:02:08

End at: 2017-12-05 12:02:38

Local clock offset: 1.531 ms

Remote clock offset: -1.607 ms

Run 8: Report of Indigo — Data Link

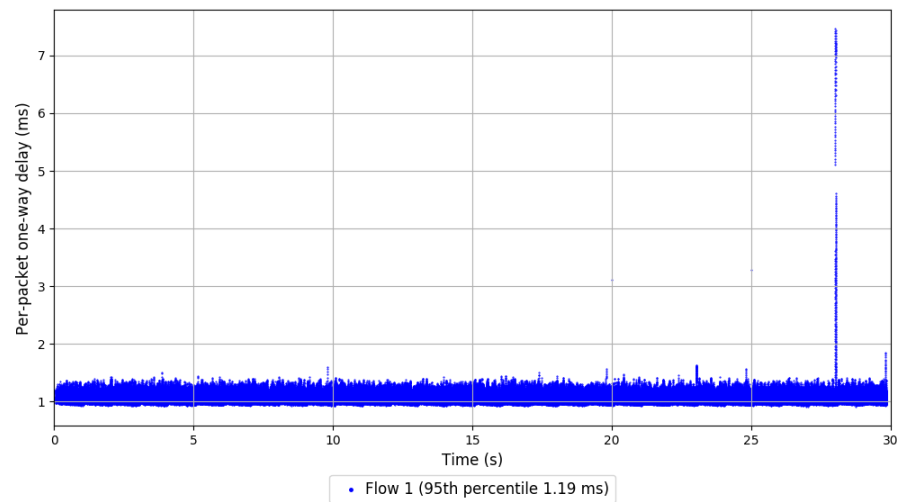
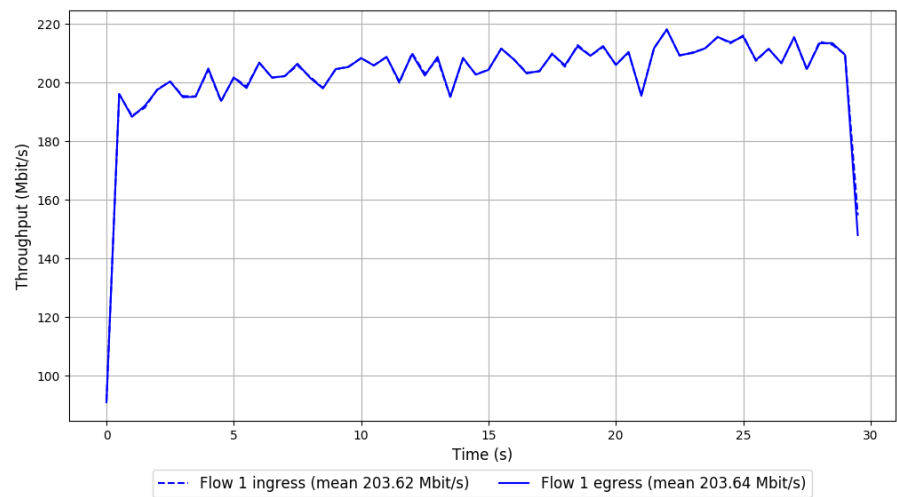


Run 9: Statistics of Indigo

Start at: 2017-12-05 12:21:18
End at: 2017-12-05 12:21:48
Local clock offset: 1.251 ms
Remote clock offset: -1.576 ms

Below is generated by plot.py at 2017-12-05 17:34:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 203.64 Mbit/s
95th percentile per-packet one-way delay: 1.189 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 203.64 Mbit/s
95th percentile per-packet one-way delay: 1.189 ms
Loss rate: 0.06%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-12-05 12:40:35

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

Local clock offset: 1.11 ms

Remote clock offset: -1.746 ms

Below is generated by plot.py at 2017-12-05 17:34:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.62 Mbit/s

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

Loss rate: 0.08%

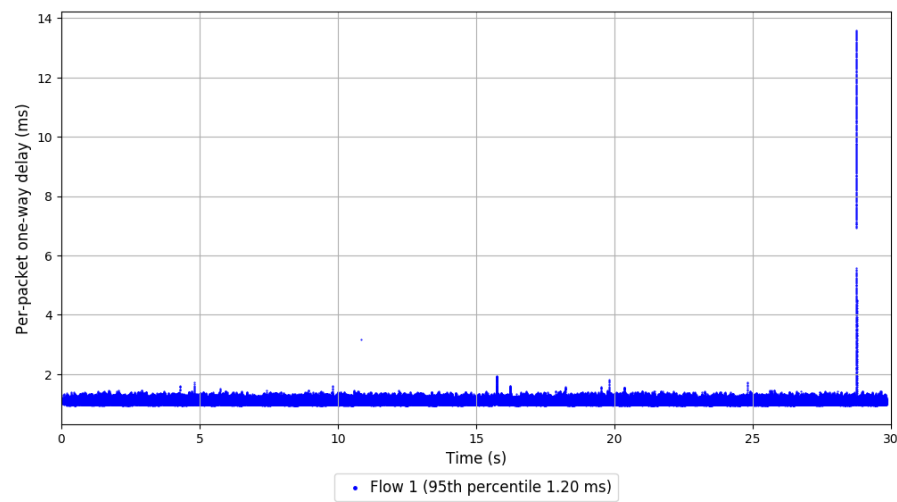
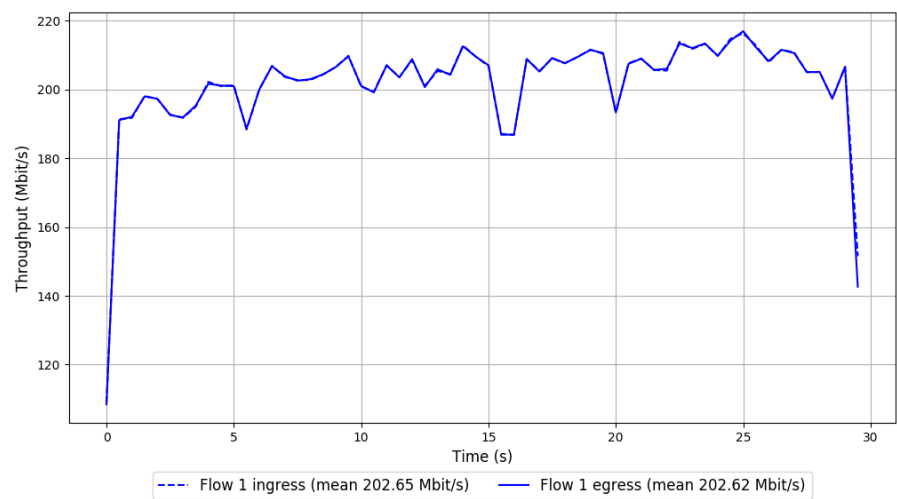
-- Flow 1:

Average throughput: 202.62 Mbit/s

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

Loss rate: 0.08%

Run 10: Report of Indigo — Data Link

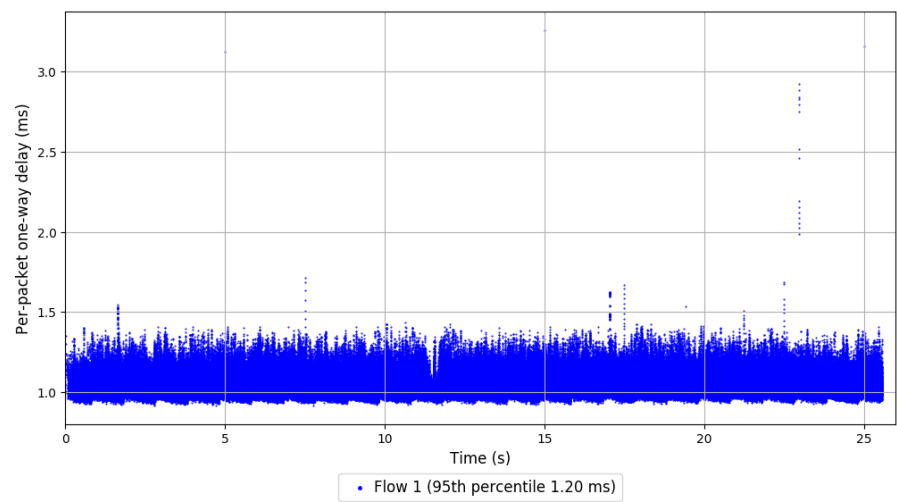
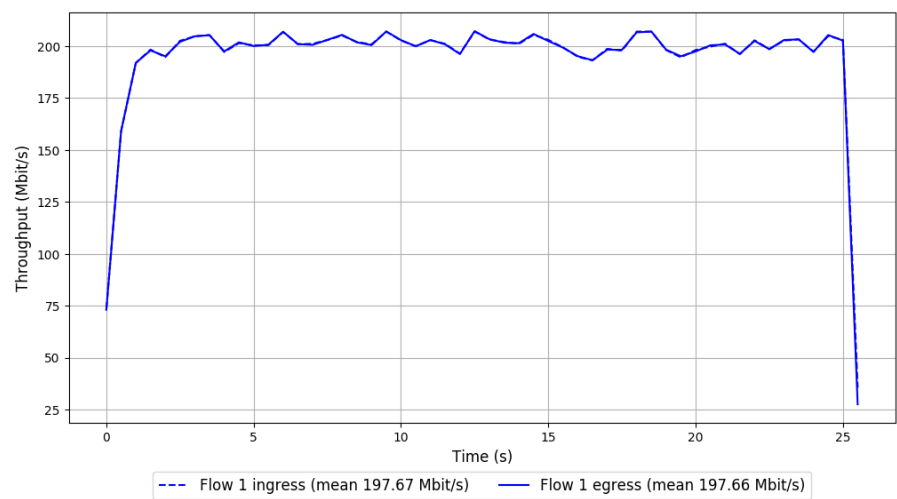


```
Run 1: Statistics of Indigo-calib

Start at: 2017-12-05 10:05:48
End at: 2017-12-05 10:06:18
Local clock offset: 3.221 ms
Remote clock offset: -1.919 ms

# Below is generated by plot.py at 2017-12-05 17:34:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 197.66 Mbit/s
95th percentile per-packet one-way delay: 1.199 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 197.66 Mbit/s
95th percentile per-packet one-way delay: 1.199 ms
Loss rate: 0.08%
```

Run 1: Report of Indigo-calib — Data Link

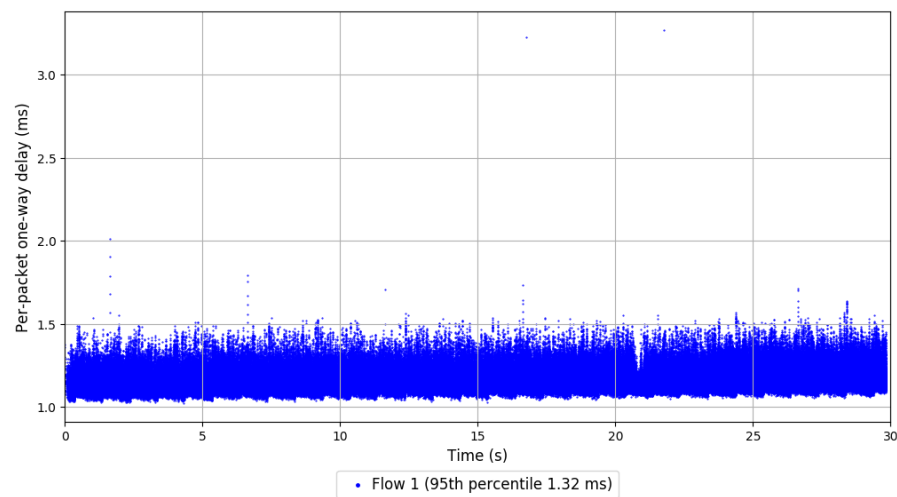
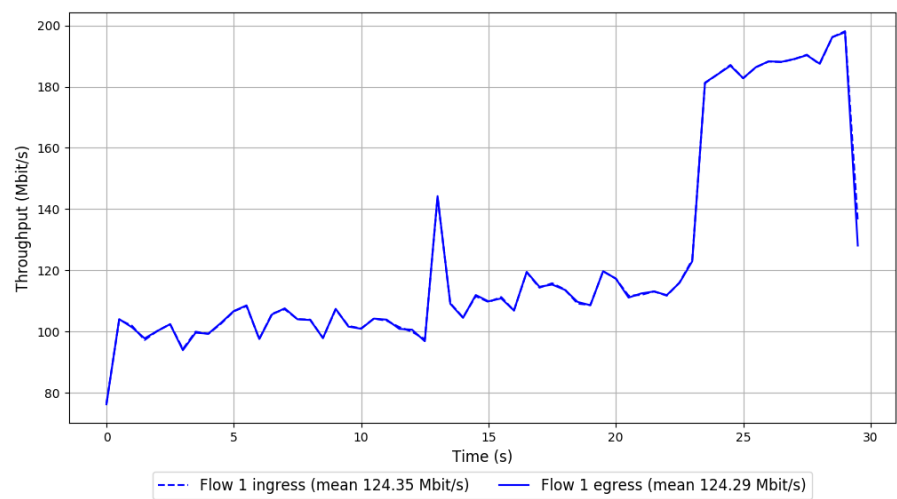


```
Run 2: Statistics of Indigo-calib

Start at: 2017-12-05 10:24:42
End at: 2017-12-05 10:25:12
Local clock offset: 2.965 ms
Remote clock offset: -2.039 ms

# Below is generated by plot.py at 2017-12-05 17:34:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 124.29 Mbit/s
95th percentile per-packet one-way delay: 1.316 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 124.29 Mbit/s
95th percentile per-packet one-way delay: 1.316 ms
Loss rate: 0.12%
```

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-12-05 10:43:54

End at: 2017-12-05 10:44:24

Local clock offset: 2.41 ms

Remote clock offset: -1.477 ms

Below is generated by plot.py at 2017-12-05 17:34:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.26 Mbit/s

95th percentile per-packet one-way delay: 1.275 ms

Loss rate: 0.07%

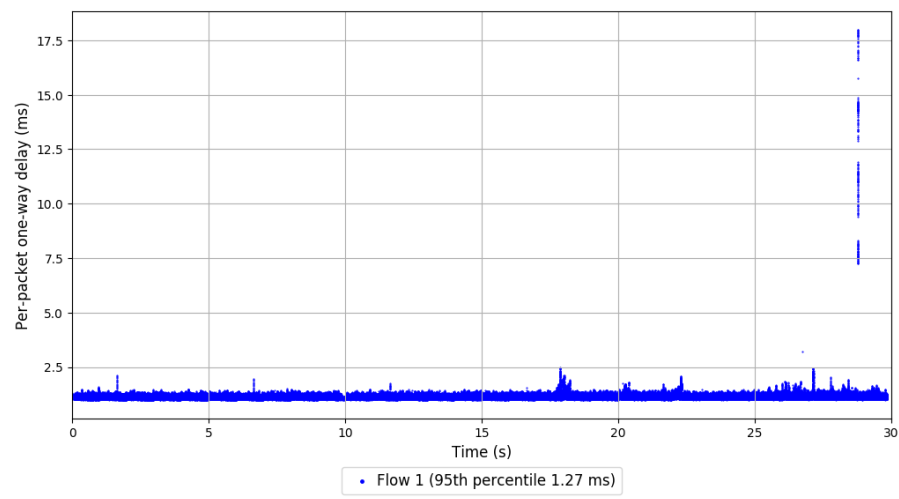
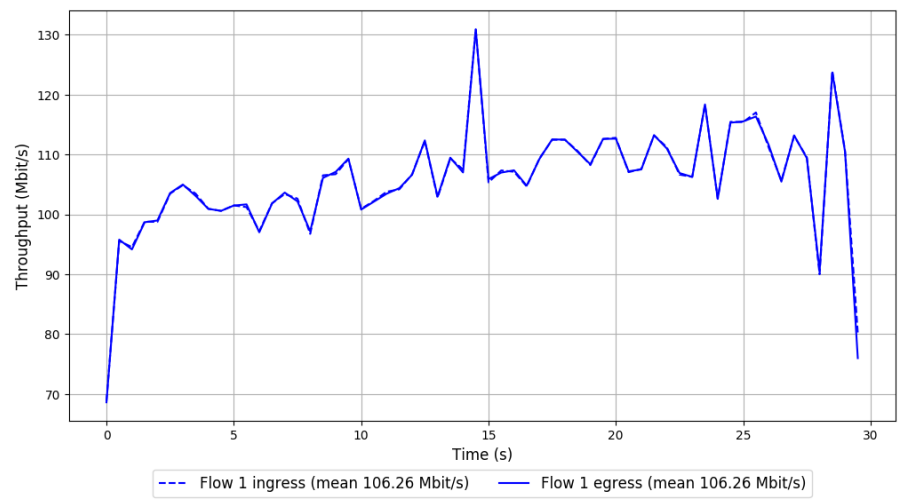
-- Flow 1:

Average throughput: 106.26 Mbit/s

95th percentile per-packet one-way delay: 1.275 ms

Loss rate: 0.07%

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-12-05 11:03:02

End at: 2017-12-05 11:03:32

Local clock offset: 2.187 ms

Remote clock offset: -1.712 ms

Below is generated by plot.py at 2017-12-05 17:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.59 Mbit/s

95th percentile per-packet one-way delay: 1.306 ms

Loss rate: 0.07%

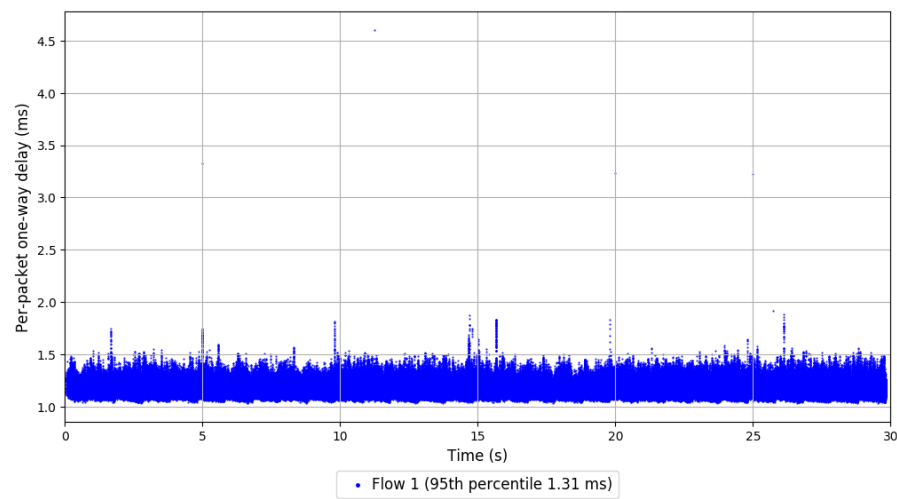
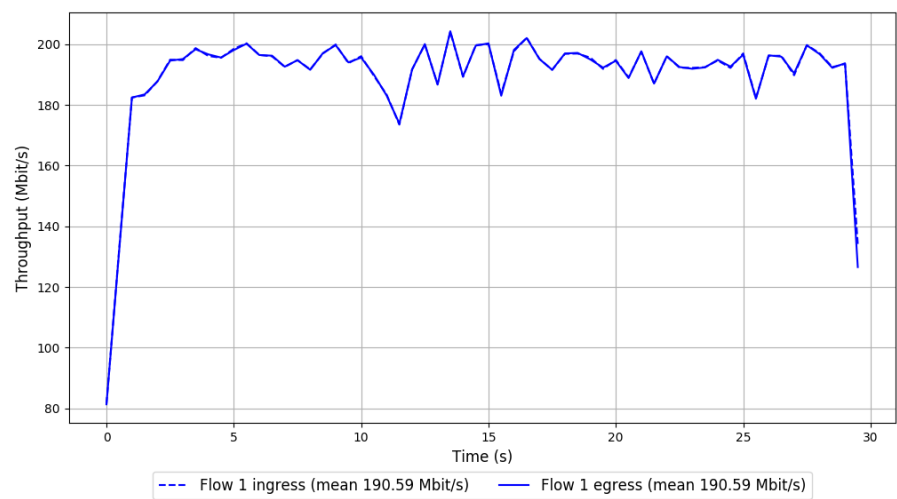
-- Flow 1:

Average throughput: 190.59 Mbit/s

95th percentile per-packet one-way delay: 1.306 ms

Loss rate: 0.07%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-12-05 11:22:09

End at: 2017-12-05 11:22:39

Local clock offset: 2.025 ms

Remote clock offset: -1.461 ms

Below is generated by plot.py at 2017-12-05 17:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.17 Mbit/s

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

Loss rate: 0.08%

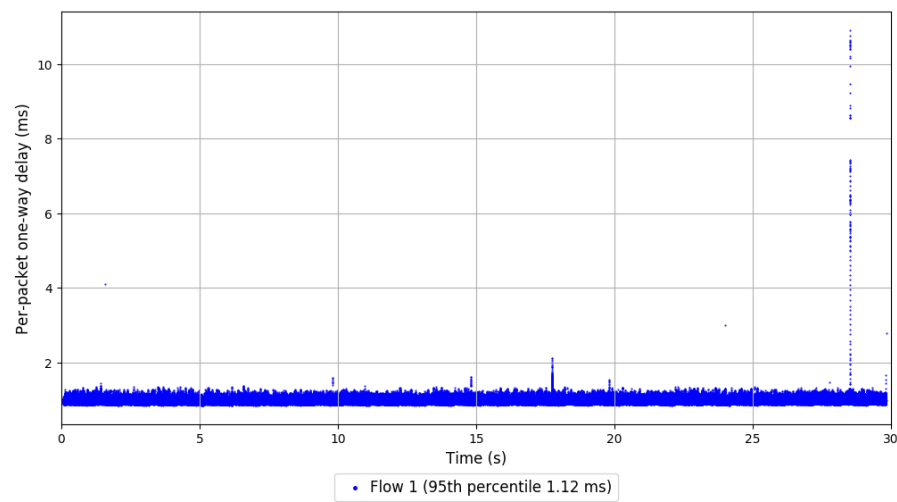
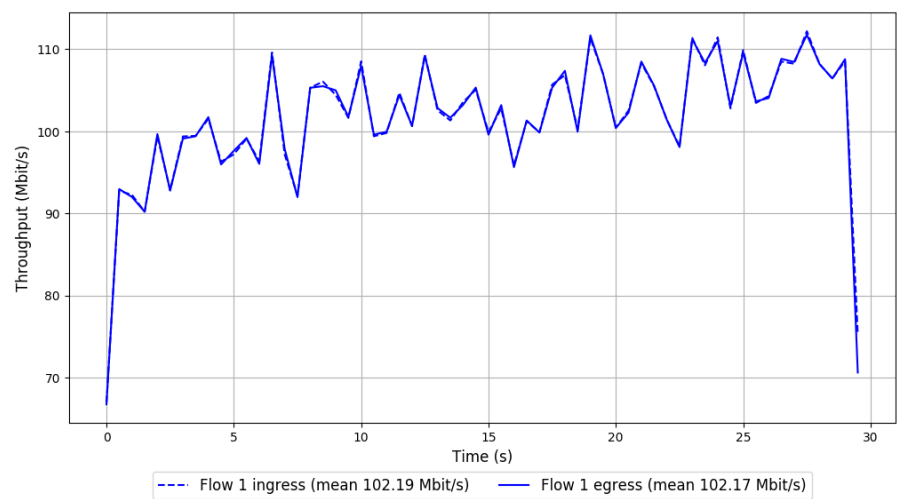
-- Flow 1:

Average throughput: 102.17 Mbit/s

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

Loss rate: 0.08%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-12-05 11:41:28

End at: 2017-12-05 11:41:58

Local clock offset: 1.974 ms

Remote clock offset: -1.653 ms

Below is generated by plot.py at 2017-12-05 17:34:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 166.22 Mbit/s

95th percentile per-packet one-way delay: 1.207 ms

Loss rate: 0.08%

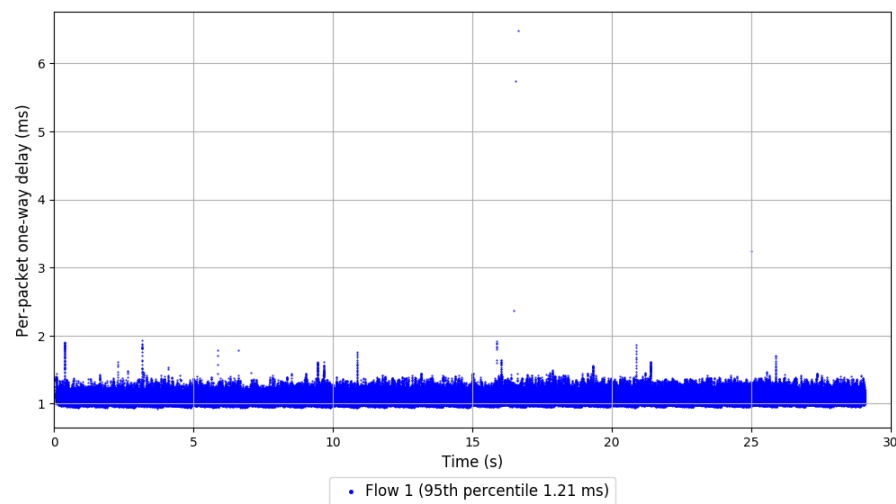
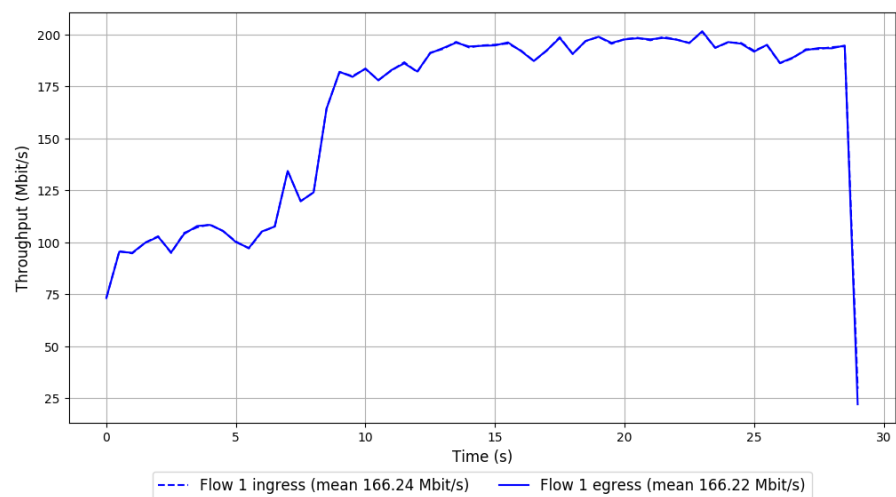
-- Flow 1:

Average throughput: 166.22 Mbit/s

95th percentile per-packet one-way delay: 1.207 ms

Loss rate: 0.08%

Run 6: Report of Indigo-calib — Data Link

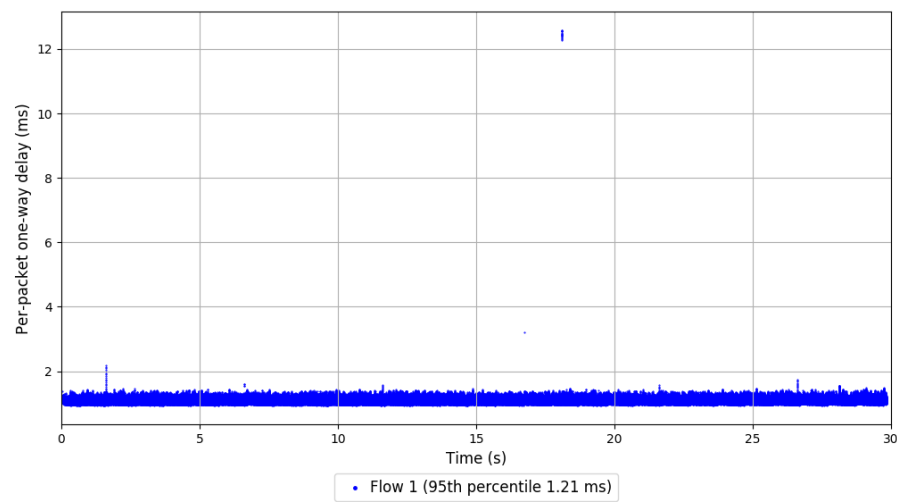
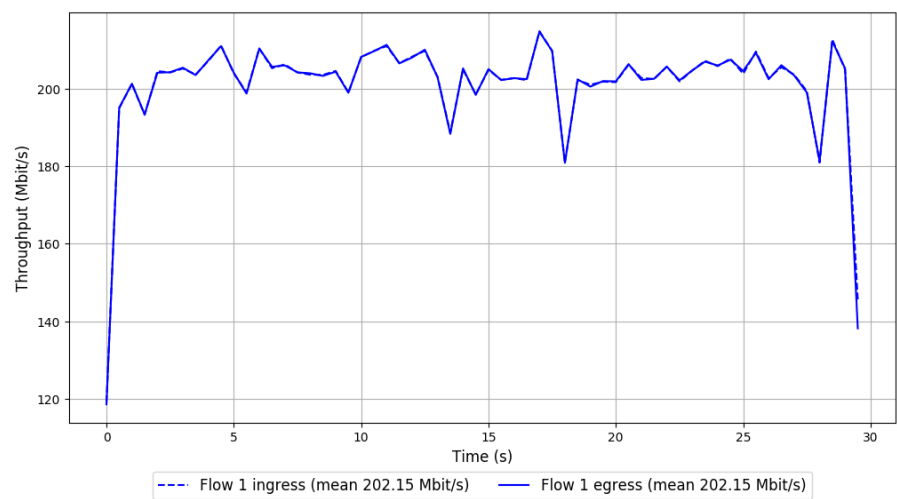


Run 7: Statistics of Indigo-calib

Start at: 2017-12-05 12:00:47
End at: 2017-12-05 12:01:17
Local clock offset: 1.55 ms
Remote clock offset: -1.613 ms

Below is generated by plot.py at 2017-12-05 17:35:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 202.15 Mbit/s
95th percentile per-packet one-way delay: 1.210 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 202.15 Mbit/s
95th percentile per-packet one-way delay: 1.210 ms
Loss rate: 0.06%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-12-05 12:20:02

End at: 2017-12-05 12:20:32

Local clock offset: 1.268 ms

Remote clock offset: -1.484 ms

Below is generated by plot.py at 2017-12-05 17:35:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 107.38 Mbit/s

95th percentile per-packet one-way delay: 1.144 ms

Loss rate: 0.07%

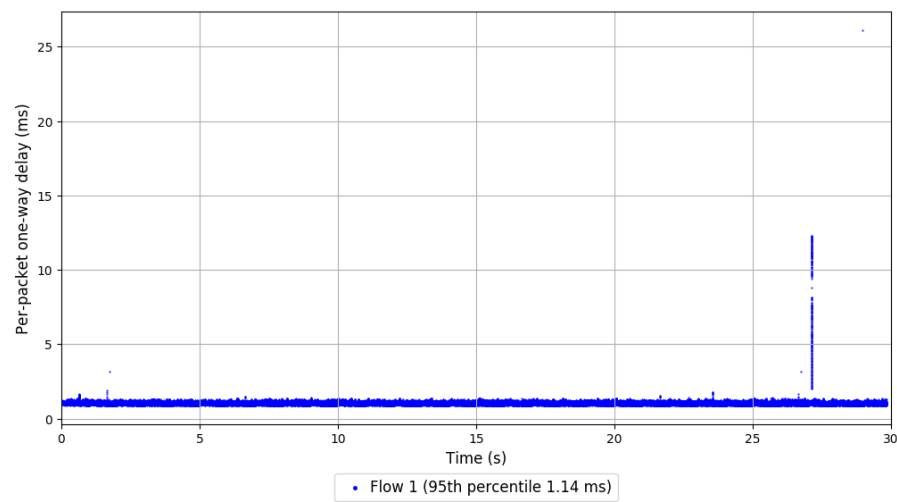
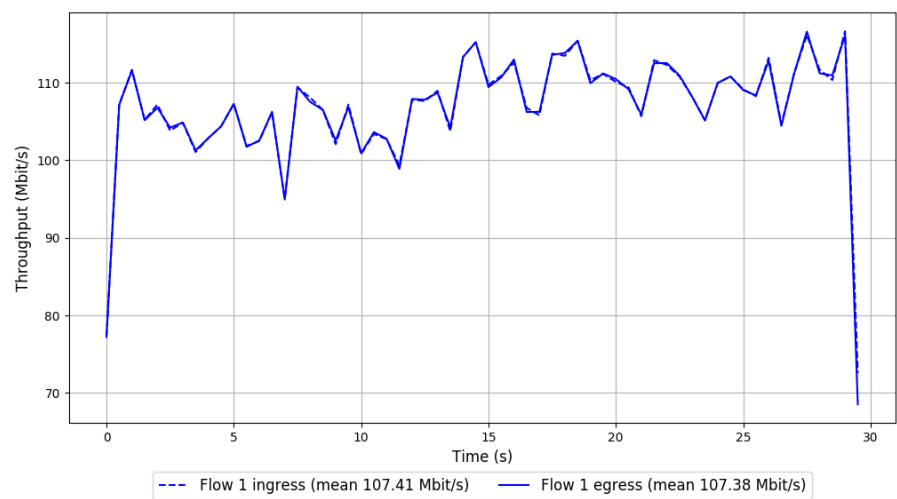
-- Flow 1:

Average throughput: 107.38 Mbit/s

95th percentile per-packet one-way delay: 1.144 ms

Loss rate: 0.07%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

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

End at: 2017-12-05 12:39:47

Local clock offset: 1.046 ms

Remote clock offset: -1.791 ms

Below is generated by plot.py at 2017-12-05 17:35:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 157.80 Mbit/s

95th percentile per-packet one-way delay: 1.192 ms

Loss rate: 0.09%

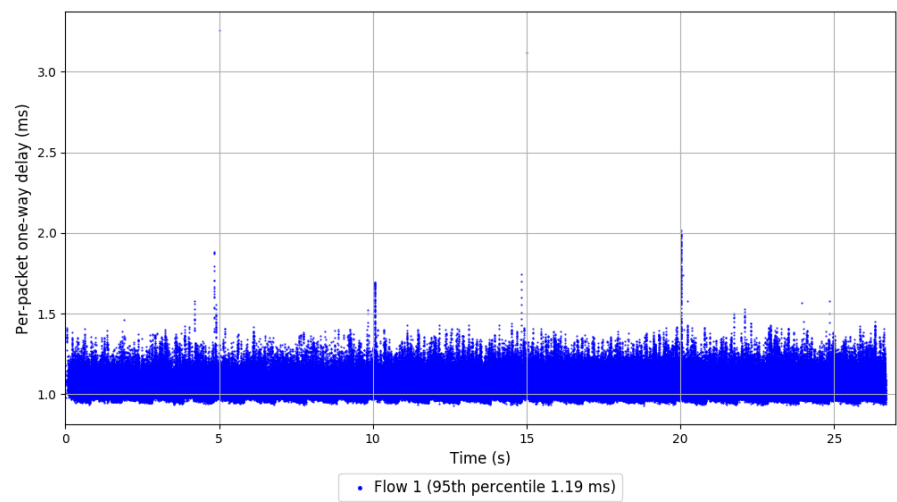
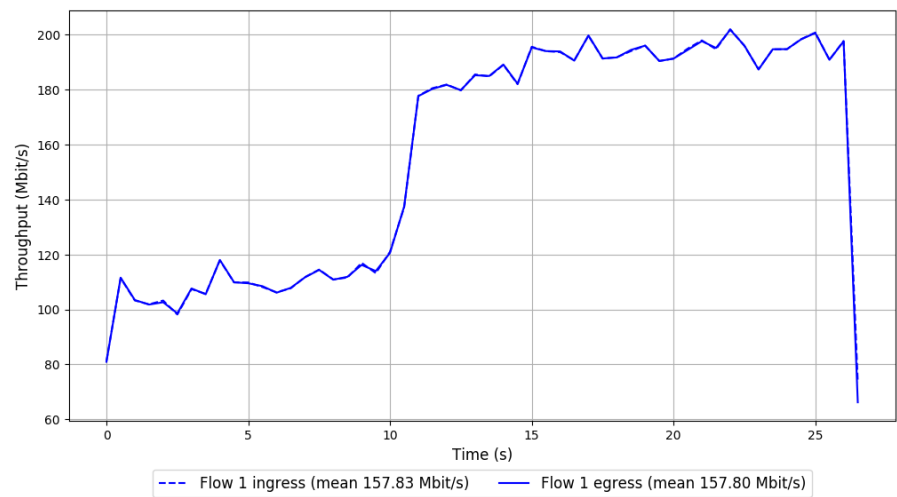
-- Flow 1:

Average throughput: 157.80 Mbit/s

95th percentile per-packet one-way delay: 1.192 ms

Loss rate: 0.09%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-12-05 12:58:43

End at: 2017-12-05 12:59:13

Local clock offset: 0.892 ms

Remote clock offset: -1.952 ms

Below is generated by plot.py at 2017-12-05 17:35:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.65 Mbit/s

95th percentile per-packet one-way delay: 1.140 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 172.65 Mbit/s

95th percentile per-packet one-way delay: 1.140 ms

Loss rate: 0.08%

Run 10: Report of Indigo-calib — Data Link

