

Pantheon Report

Generated at 2017-12-11 19:49:50 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

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

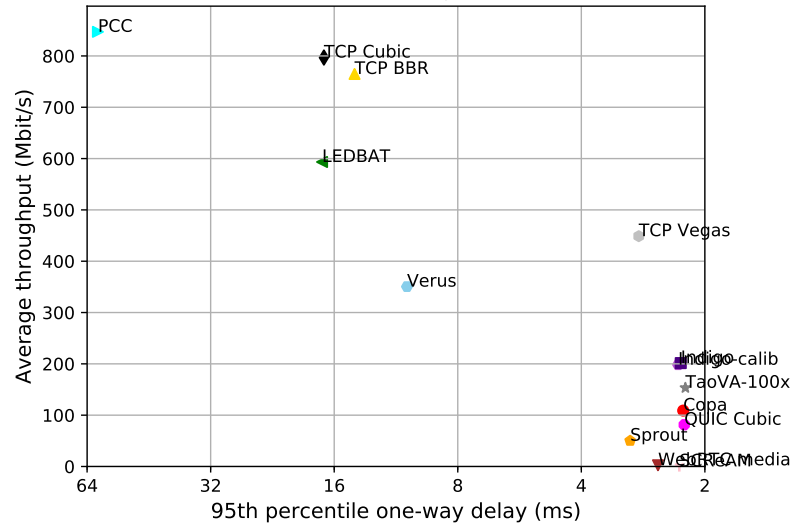
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

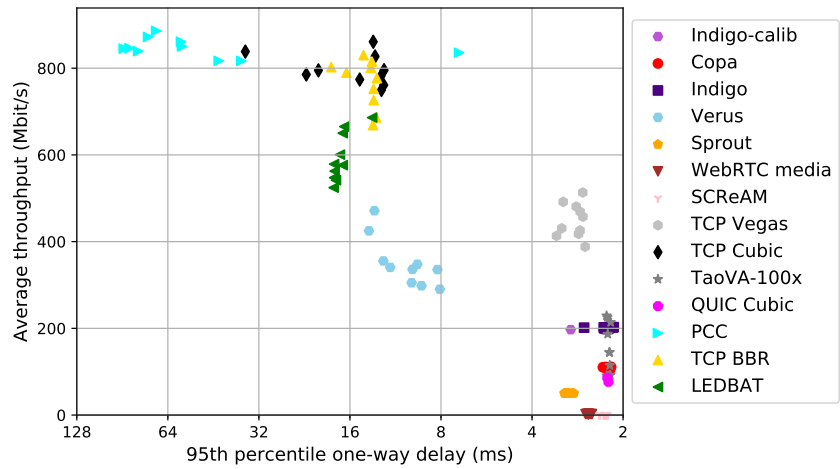
Git summary:

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

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	764.91	14.27	0.09
TCP Cubic	10	796.87	16.95	0.03
LEDBAT	10	593.34	17.13	0.02
PCC	10	846.98	60.22	0.69
QUIC Cubic	2	81.31	2.25	0.00
SCReAM	10	0.22	2.31	0.00
WebRTC media	10	2.36	2.60	0.00
Sprout	10	50.21	3.04	0.00
TaoVA-100x	10	153.32	2.23	0.00
TCP Vegas	10	448.80	2.90	0.00
Verus	10	350.51	10.64	0.19
Copa	10	108.91	2.26	0.00
Indigo	9	201.46	2.29	0.00
Indigo-calib	10	198.30	2.32	0.00

Run 1: Statistics of TCP BBR

Start at: 2017-12-11 14:03:07

End at: 2017-12-11 14:03:37

Local clock offset: -2.009 ms

Remote clock offset: 0.542 ms

Below is generated by plot.py at 2017-12-11 18:37:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 726.11 Mbit/s

95th percentile per-packet one-way delay: 13.354 ms

Loss rate: 0.03%

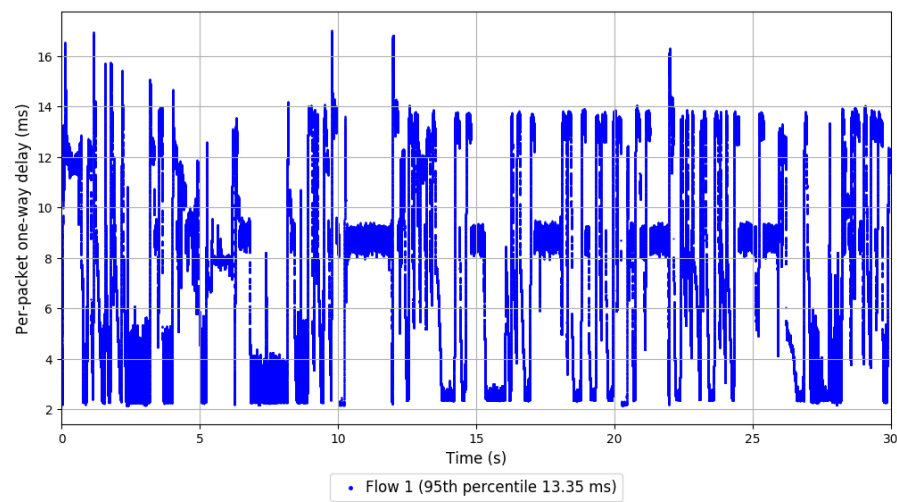
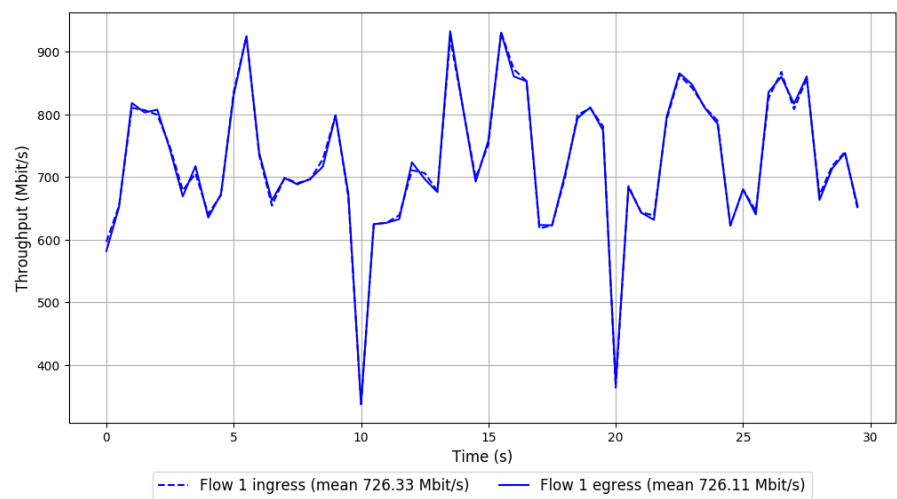
-- Flow 1:

Average throughput: 726.11 Mbit/s

95th percentile per-packet one-way delay: 13.354 ms

Loss rate: 0.03%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-12-11 14:21:08

End at: 2017-12-11 14:21:38

Local clock offset: -1.62 ms

Remote clock offset: 0.234 ms

Below is generated by plot.py at 2017-12-11 18:38:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 830.13 Mbit/s

95th percentile per-packet one-way delay: 14.428 ms

Loss rate: 0.12%

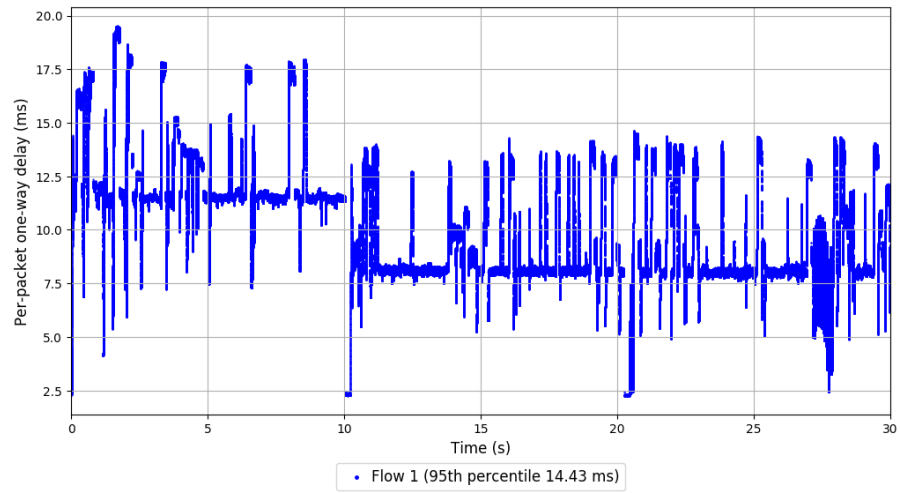
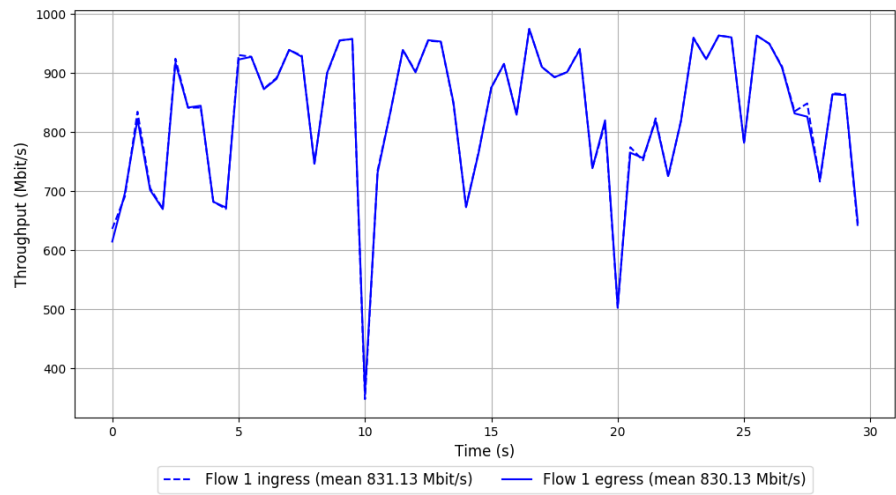
-- Flow 1:

Average throughput: 830.13 Mbit/s

95th percentile per-packet one-way delay: 14.428 ms

Loss rate: 0.12%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-12-11 14:39:16

End at: 2017-12-11 14:39:46

Local clock offset: -0.958 ms

Remote clock offset: 0.298 ms

Below is generated by plot.py at 2017-12-11 18:38:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 800.60 Mbit/s

95th percentile per-packet one-way delay: 13.627 ms

Loss rate: 0.33%

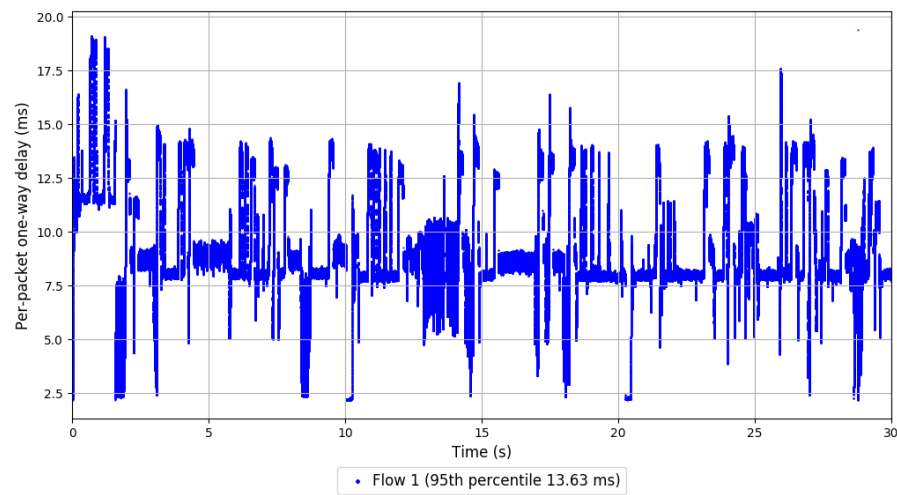
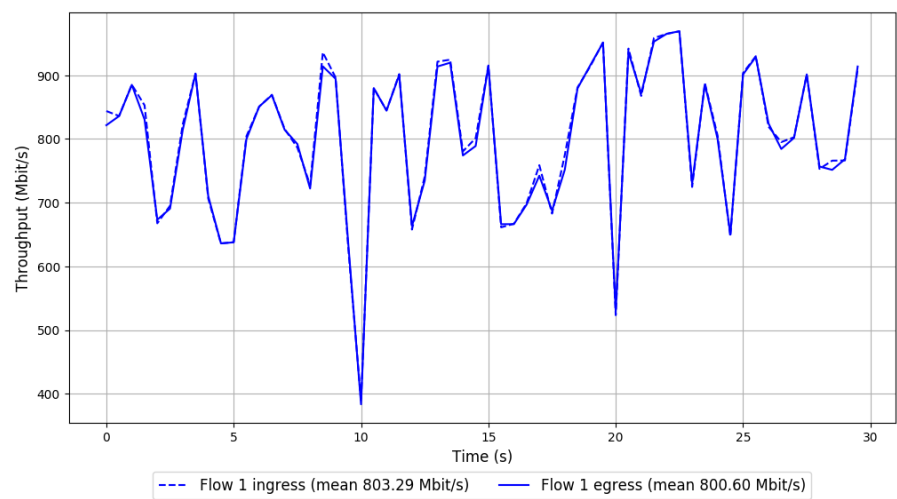
-- Flow 1:

Average throughput: 800.60 Mbit/s

95th percentile per-packet one-way delay: 13.627 ms

Loss rate: 0.33%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-12-11 14:57:31

End at: 2017-12-11 14:58:01

Local clock offset: -0.486 ms

Remote clock offset: 0.079 ms

Below is generated by plot.py at 2017-12-11 18:38:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 686.44 Mbit/s

95th percentile per-packet one-way delay: 13.114 ms

Loss rate: 0.03%

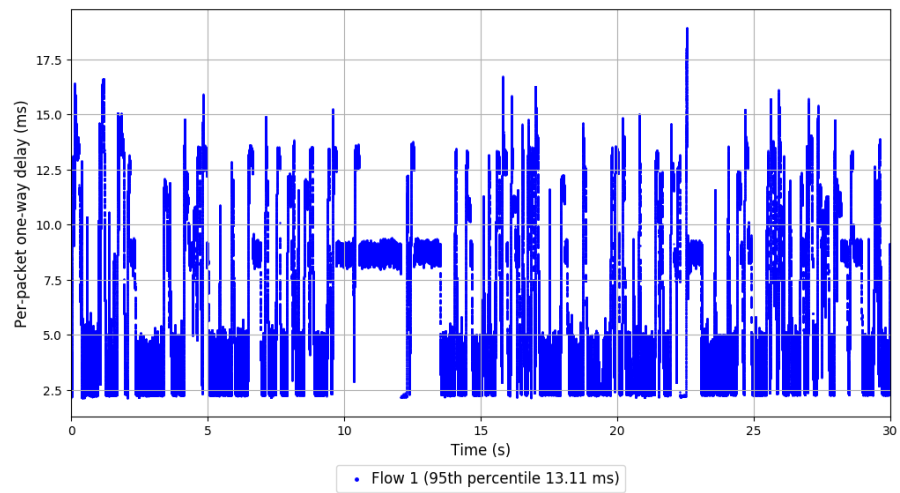
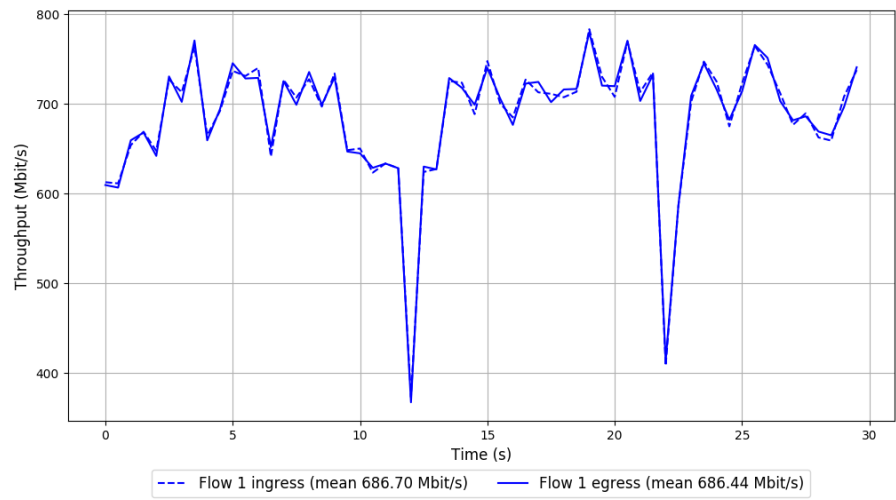
-- Flow 1:

Average throughput: 686.44 Mbit/s

95th percentile per-packet one-way delay: 13.114 ms

Loss rate: 0.03%

Run 4: Report of TCP BBR — Data Link

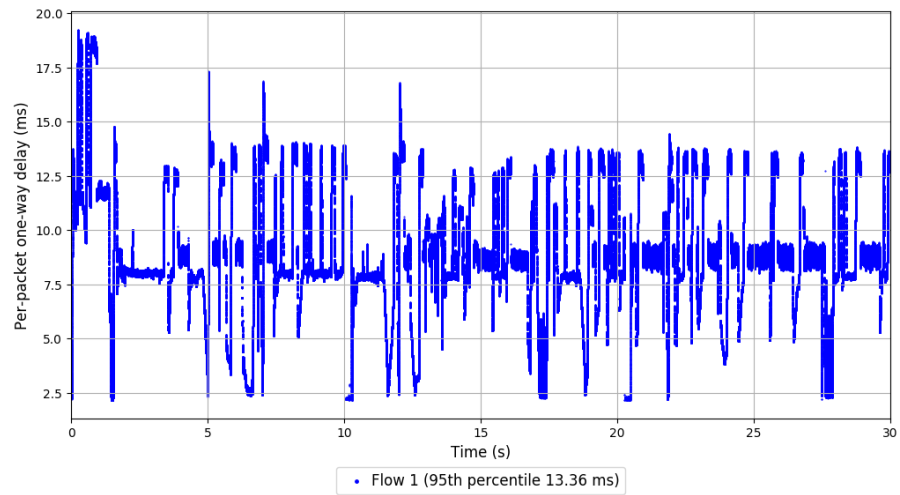
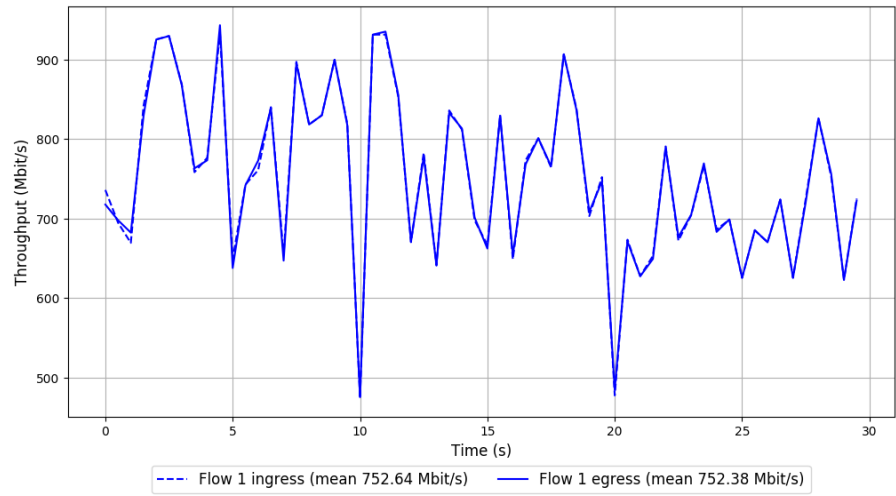


Run 5: Statistics of TCP BBR

Start at: 2017-12-11 15:15:38
End at: 2017-12-11 15:16:08
Local clock offset: -0.0 ms
Remote clock offset: -0.095 ms

Below is generated by plot.py at 2017-12-11 18:38:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 752.38 Mbit/s
95th percentile per-packet one-way delay: 13.359 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 752.38 Mbit/s
95th percentile per-packet one-way delay: 13.359 ms
Loss rate: 0.03%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-12-11 15:33:44

End at: 2017-12-11 15:34:14

Local clock offset: 0.459 ms

Remote clock offset: -0.227 ms

Below is generated by plot.py at 2017-12-11 18:38:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 815.37 Mbit/s

95th percentile per-packet one-way delay: 13.537 ms

Loss rate: 0.07%

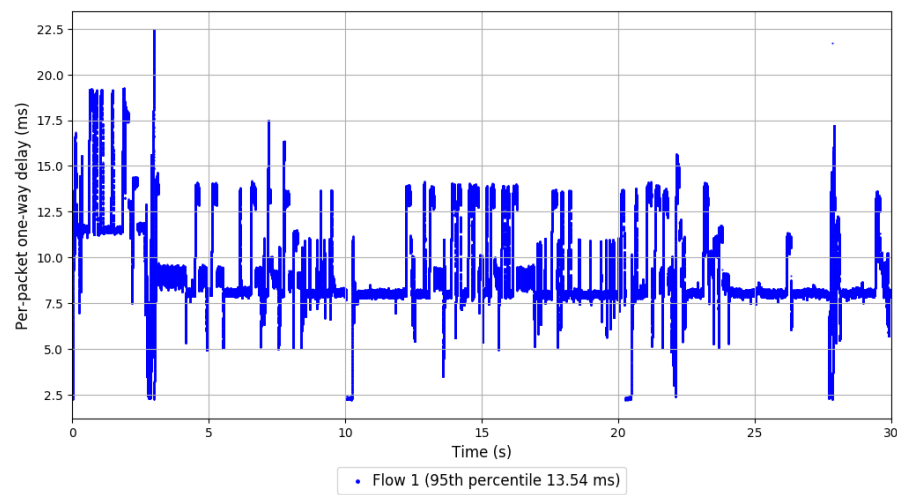
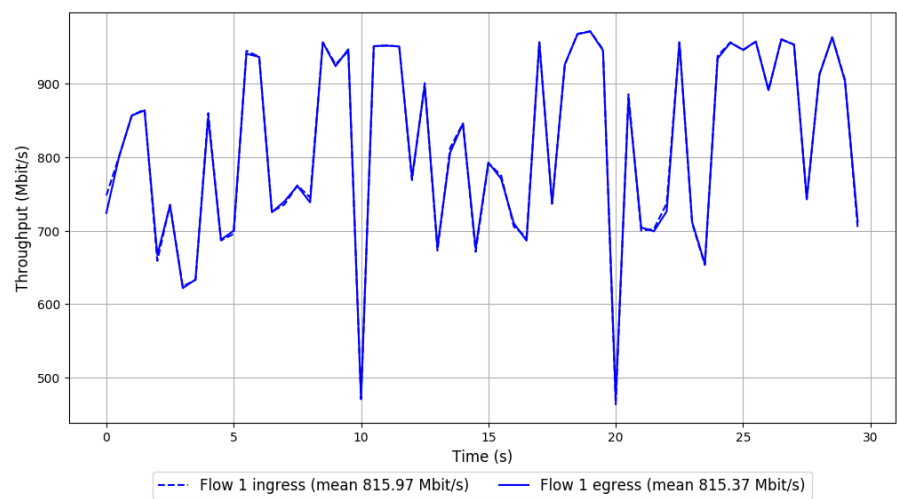
-- Flow 1:

Average throughput: 815.37 Mbit/s

95th percentile per-packet one-way delay: 13.537 ms

Loss rate: 0.07%

Run 6: Report of TCP BBR — Data Link

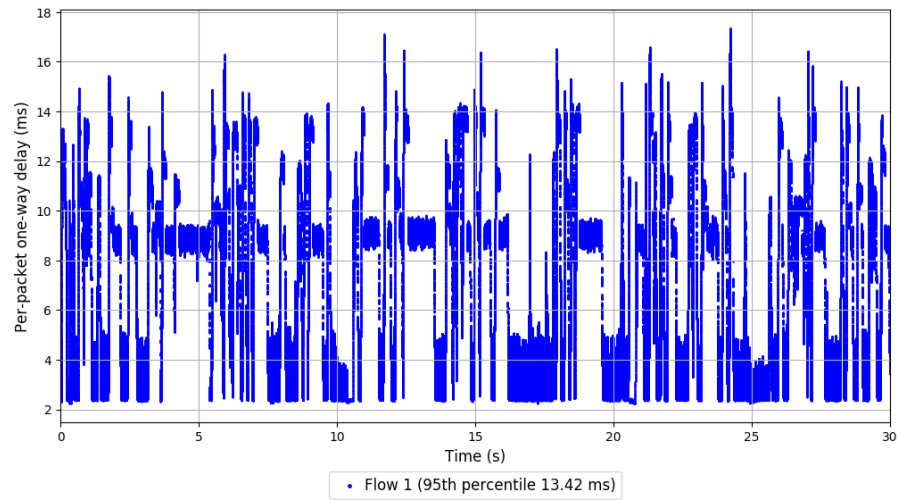
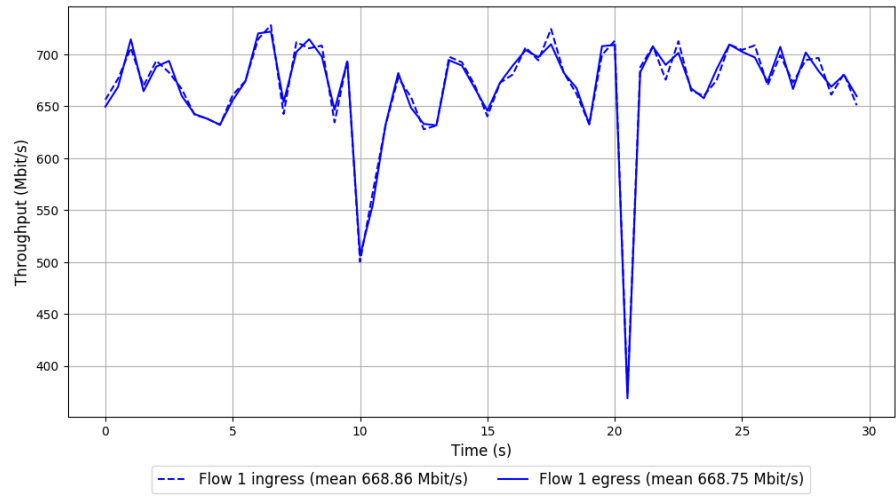


Run 7: Statistics of TCP BBR

Start at: 2017-12-11 15:51:49
End at: 2017-12-11 15:52:19
Local clock offset: 0.712 ms
Remote clock offset: -0.321 ms

Below is generated by plot.py at 2017-12-11 18:38:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 668.75 Mbit/s
95th percentile per-packet one-way delay: 13.418 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 668.75 Mbit/s
95th percentile per-packet one-way delay: 13.418 ms
Loss rate: 0.02%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-12-11 16:09:56

End at: 2017-12-11 16:10:26

Local clock offset: 0.964 ms

Remote clock offset: -0.273 ms

Below is generated by plot.py at 2017-12-11 18:38:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 802.42 Mbit/s

95th percentile per-packet one-way delay: 18.445 ms

Loss rate: 0.14%

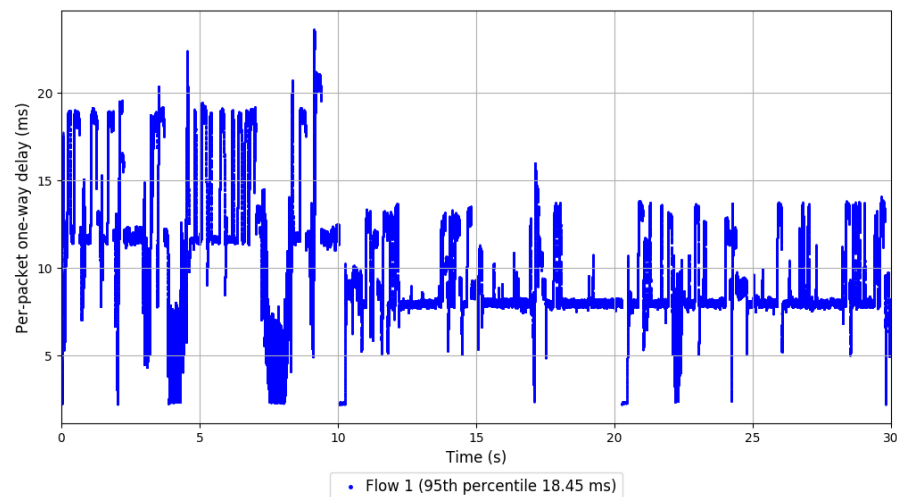
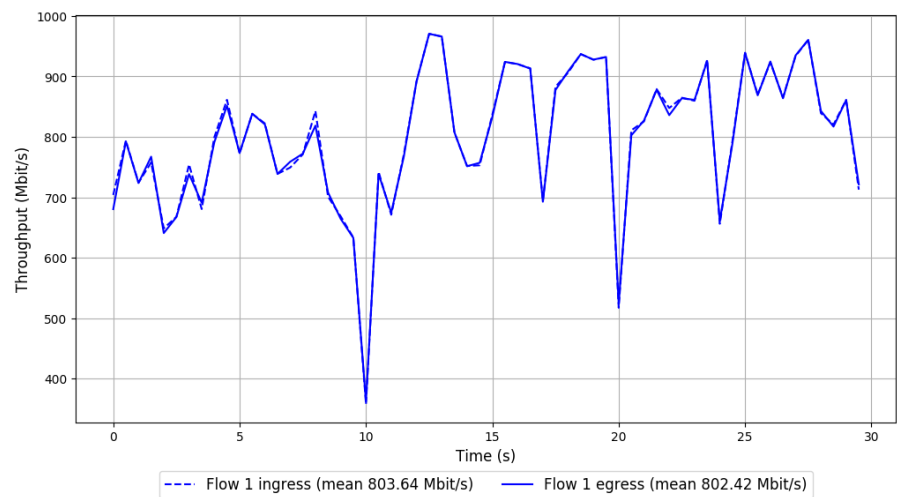
-- Flow 1:

Average throughput: 802.42 Mbit/s

95th percentile per-packet one-way delay: 18.445 ms

Loss rate: 0.14%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-12-11 16:28:04

End at: 2017-12-11 16:28:34

Local clock offset: 1.103 ms

Remote clock offset: -0.269 ms

Below is generated by plot.py at 2017-12-11 18:47:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 789.88 Mbit/s

95th percentile per-packet one-way delay: 16.427 ms

Loss rate: 0.05%

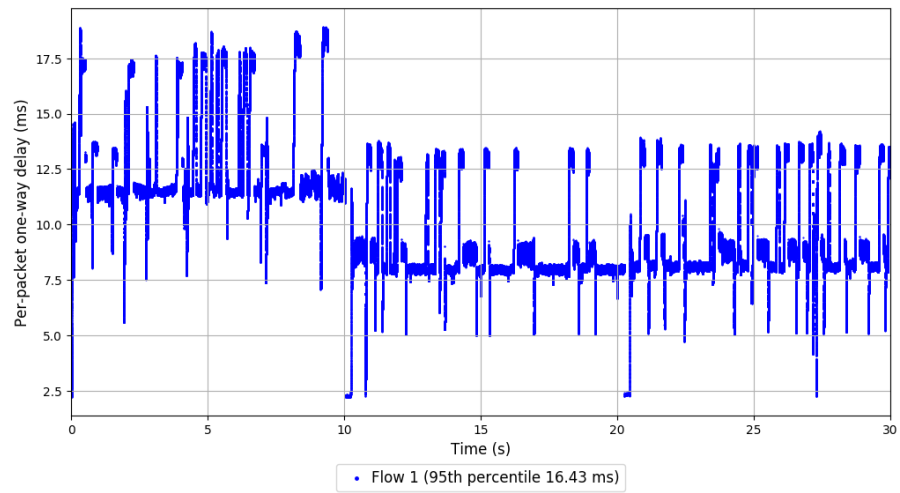
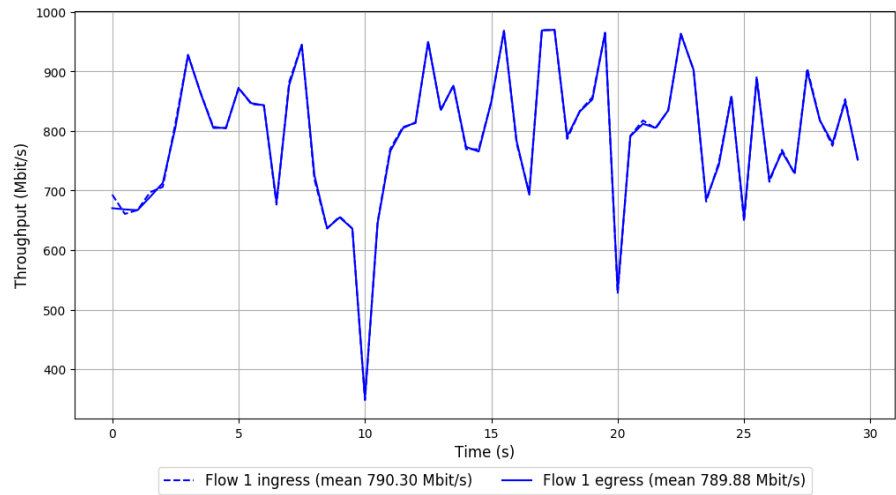
-- Flow 1:

Average throughput: 789.88 Mbit/s

95th percentile per-packet one-way delay: 16.427 ms

Loss rate: 0.05%

Run 9: Report of TCP BBR — Data Link

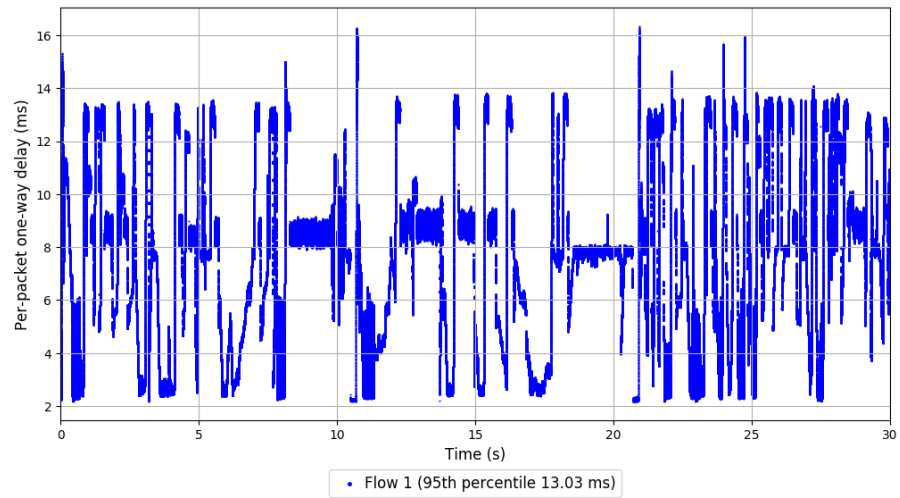
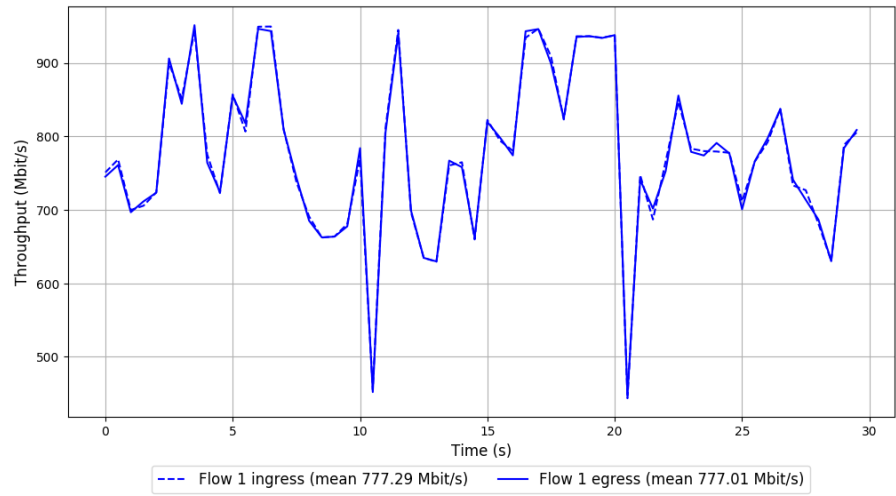


Run 10: Statistics of TCP BBR

Start at: 2017-12-11 16:46:10
End at: 2017-12-11 16:46:40
Local clock offset: 1.127 ms
Remote clock offset: -0.241 ms

Below is generated by plot.py at 2017-12-11 18:47:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 777.01 Mbit/s
95th percentile per-packet one-way delay: 13.029 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 777.01 Mbit/s
95th percentile per-packet one-way delay: 13.029 ms
Loss rate: 0.04%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-12-11 13:53:56

End at: 2017-12-11 13:54:26

Local clock offset: -2.079 ms

Remote clock offset: 0.71 ms

Below is generated by plot.py at 2017-12-11 18:48:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 860.97 Mbit/s

95th percentile per-packet one-way delay: 13.398 ms

Loss rate: 0.04%

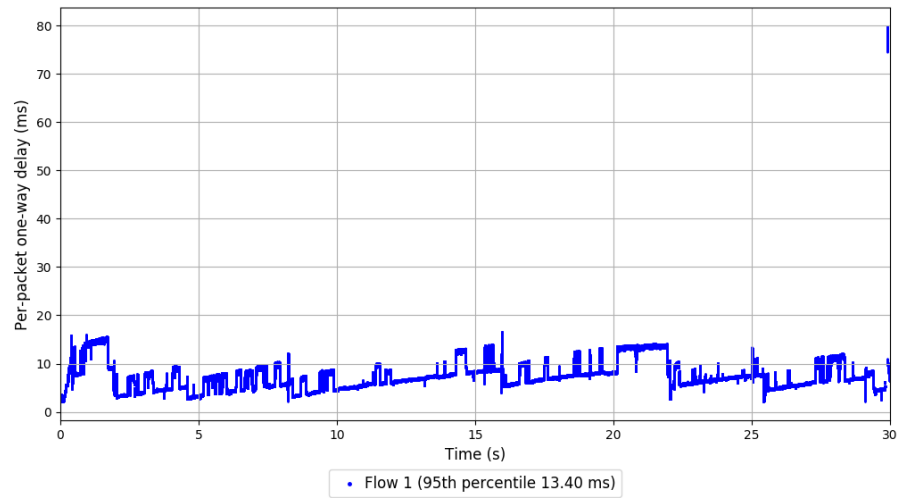
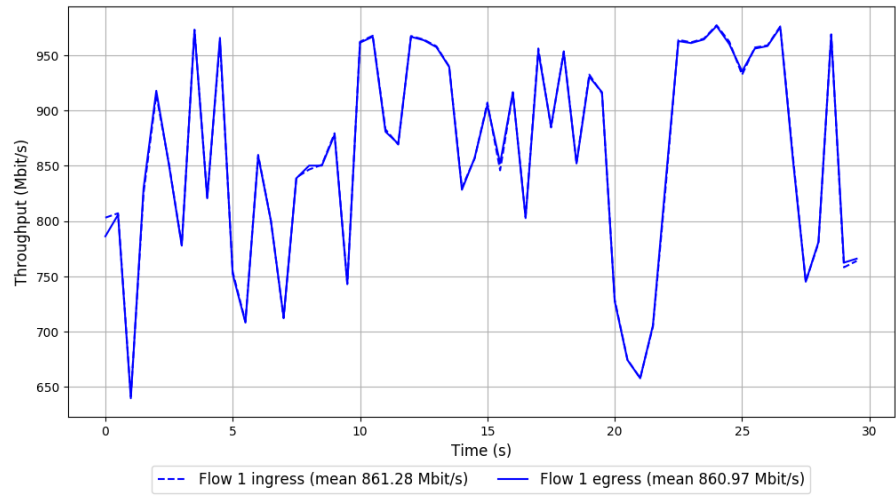
-- Flow 1:

Average throughput: 860.97 Mbit/s

95th percentile per-packet one-way delay: 13.398 ms

Loss rate: 0.04%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-12-11 14:12:04

End at: 2017-12-11 14:12:34

Local clock offset: -1.898 ms

Remote clock offset: 0.323 ms

Below is generated by plot.py at 2017-12-11 18:48:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 838.37 Mbit/s

95th percentile per-packet one-way delay: 35.475 ms

Loss rate: 0.02%

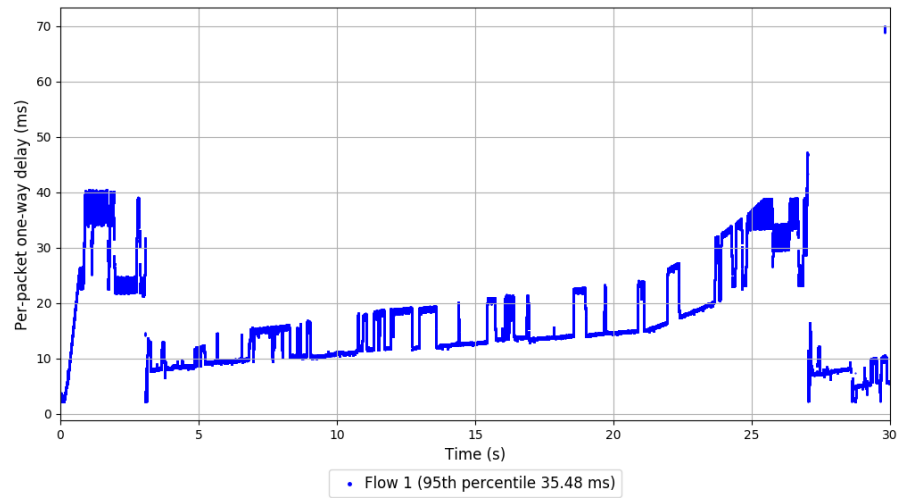
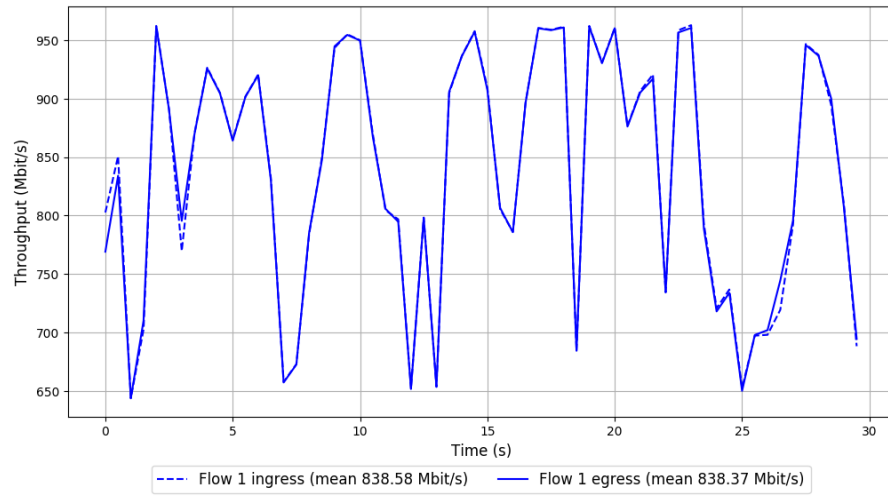
-- Flow 1:

Average throughput: 838.37 Mbit/s

95th percentile per-packet one-way delay: 35.475 ms

Loss rate: 0.02%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-12-11 14:30:13

End at: 2017-12-11 14:30:43

Local clock offset: -1.243 ms

Remote clock offset: 0.229 ms

Below is generated by plot.py at 2017-12-11 18:48:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 785.46 Mbit/s

95th percentile per-packet one-way delay: 22.308 ms

Loss rate: 0.06%

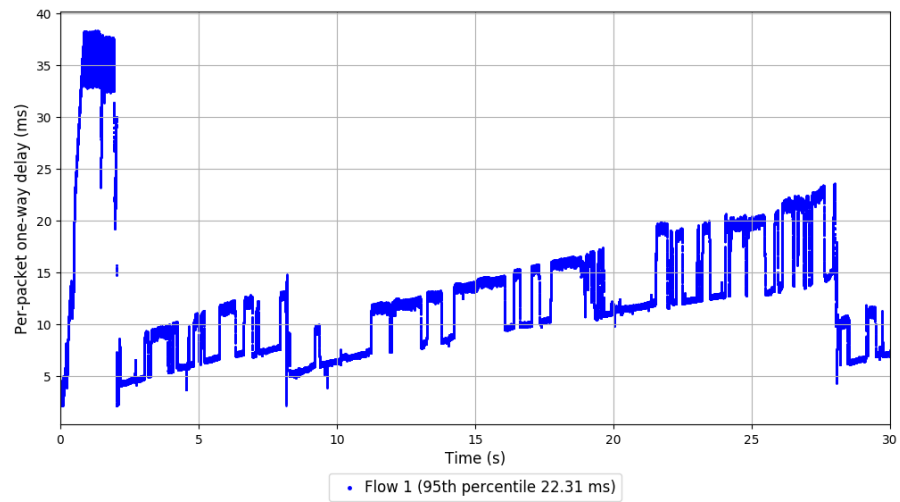
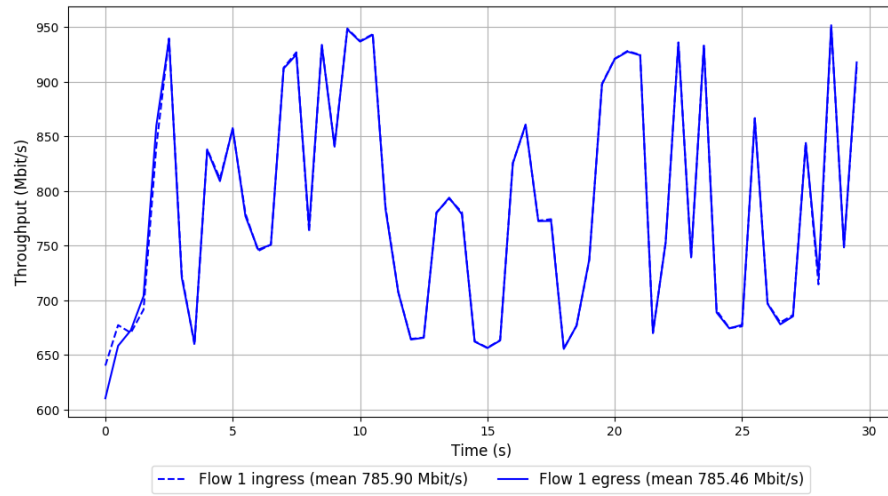
-- Flow 1:

Average throughput: 785.46 Mbit/s

95th percentile per-packet one-way delay: 22.308 ms

Loss rate: 0.06%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-12-11 14:48:27

End at: 2017-12-11 14:48:57

Local clock offset: -0.733 ms

Remote clock offset: 0.308 ms

Below is generated by plot.py at 2017-12-11 18:48:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 781.65 Mbit/s

95th percentile per-packet one-way delay: 12.643 ms

Loss rate: 0.00%

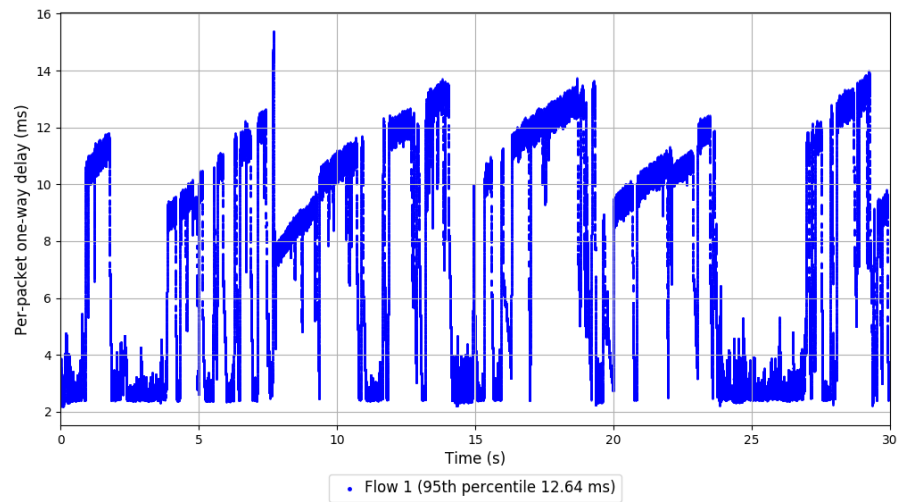
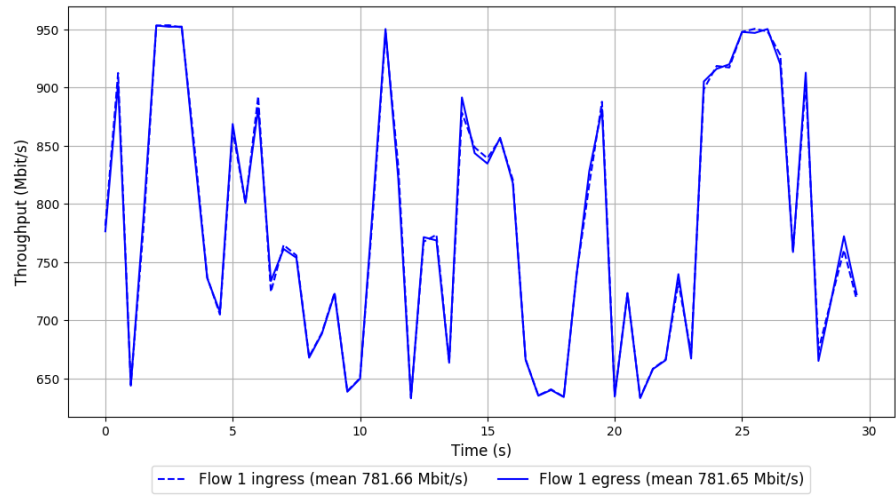
-- Flow 1:

Average throughput: 781.65 Mbit/s

95th percentile per-packet one-way delay: 12.643 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link

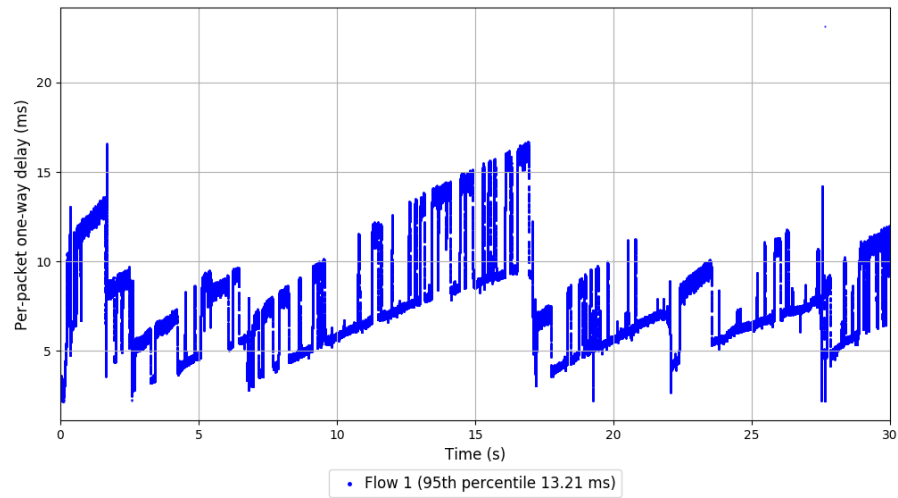
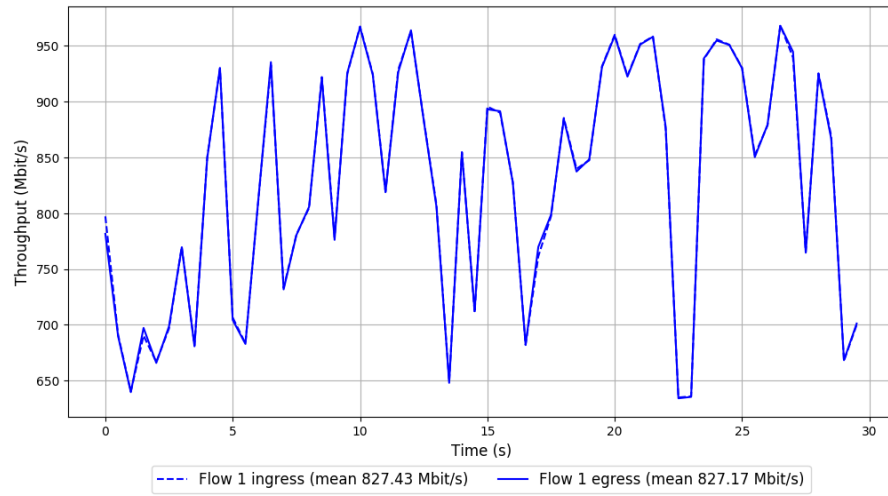


Run 5: Statistics of TCP Cubic

Start at: 2017-12-11 15:06:31
End at: 2017-12-11 15:07:01
Local clock offset: -0.224 ms
Remote clock offset: -0.004 ms

Below is generated by plot.py at 2017-12-11 18:49:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 827.17 Mbit/s
95th percentile per-packet one-way delay: 13.213 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 827.17 Mbit/s
95th percentile per-packet one-way delay: 13.213 ms
Loss rate: 0.03%

Run 5: Report of TCP Cubic — Data Link

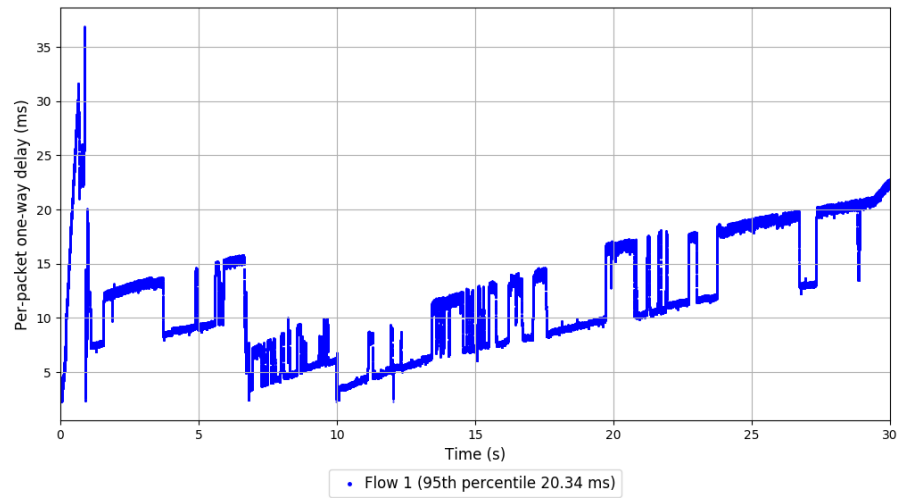
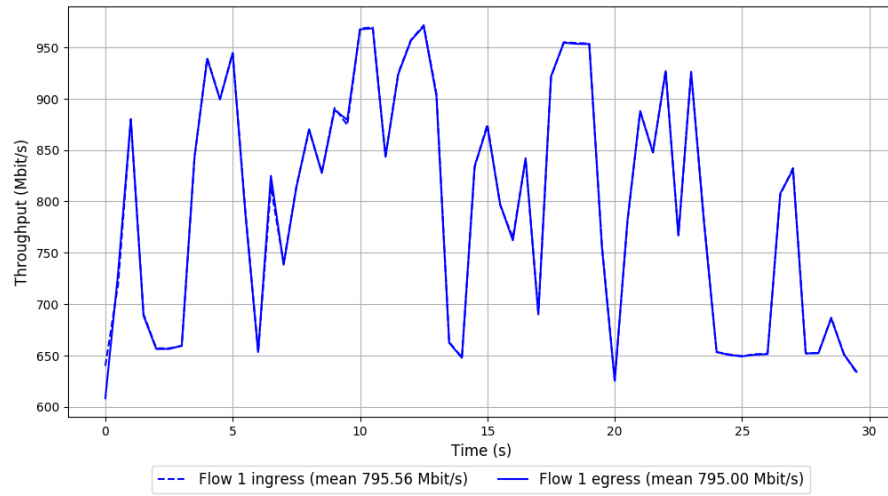


Run 6: Statistics of TCP Cubic

Start at: 2017-12-11 15:24:35
End at: 2017-12-11 15:25:05
Local clock offset: 0.145 ms
Remote clock offset: -0.164 ms

Below is generated by plot.py at 2017-12-11 18:49:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 795.00 Mbit/s
95th percentile per-packet one-way delay: 20.336 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 795.00 Mbit/s
95th percentile per-packet one-way delay: 20.336 ms
Loss rate: 0.07%

Run 6: Report of TCP Cubic — Data Link

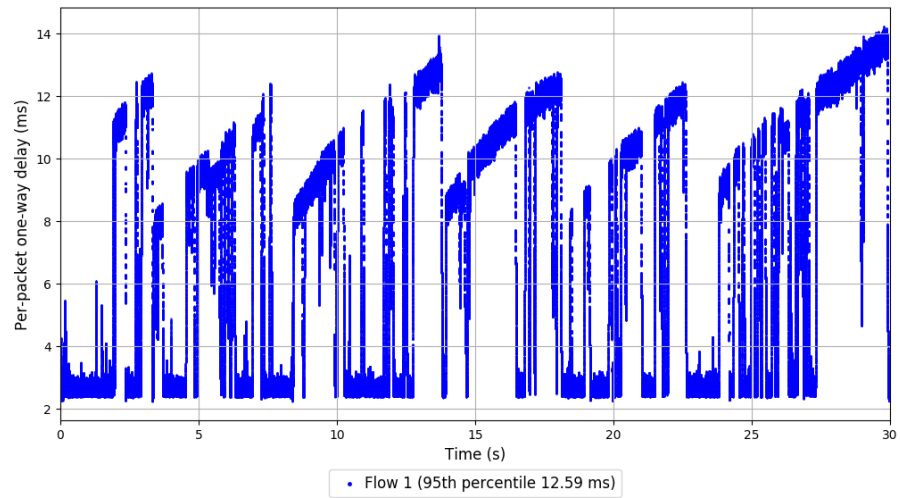
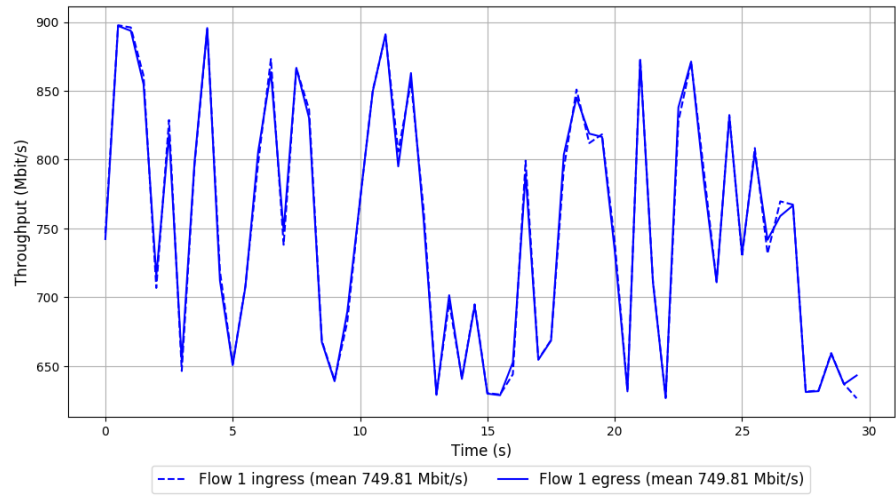


Run 7: Statistics of TCP Cubic

Start at: 2017-12-11 15:42:42
End at: 2017-12-11 15:43:13
Local clock offset: 0.577 ms
Remote clock offset: -0.291 ms

Below is generated by plot.py at 2017-12-11 18:57:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 749.81 Mbit/s
95th percentile per-packet one-way delay: 12.587 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 749.81 Mbit/s
95th percentile per-packet one-way delay: 12.587 ms
Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link

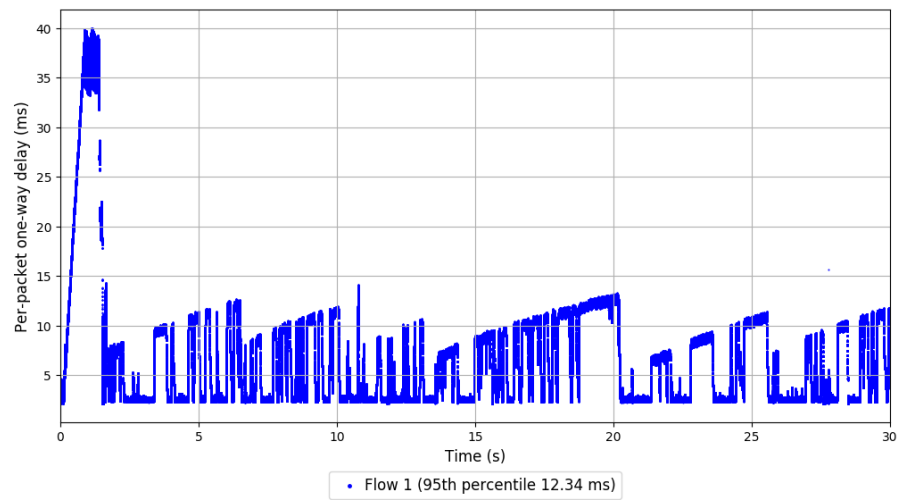
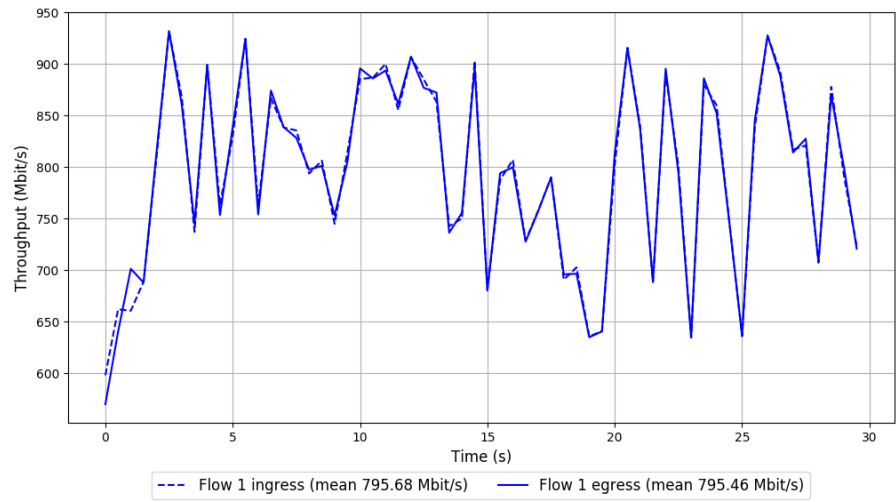


Run 8: Statistics of TCP Cubic

Start at: 2017-12-11 16:00:47
End at: 2017-12-11 16:01:17
Local clock offset: 0.895 ms
Remote clock offset: -0.302 ms

Below is generated by plot.py at 2017-12-11 18:58:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 795.46 Mbit/s
95th percentile per-packet one-way delay: 12.339 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 795.46 Mbit/s
95th percentile per-packet one-way delay: 12.339 ms
Loss rate: 0.03%

Run 8: Report of TCP Cubic — Data Link

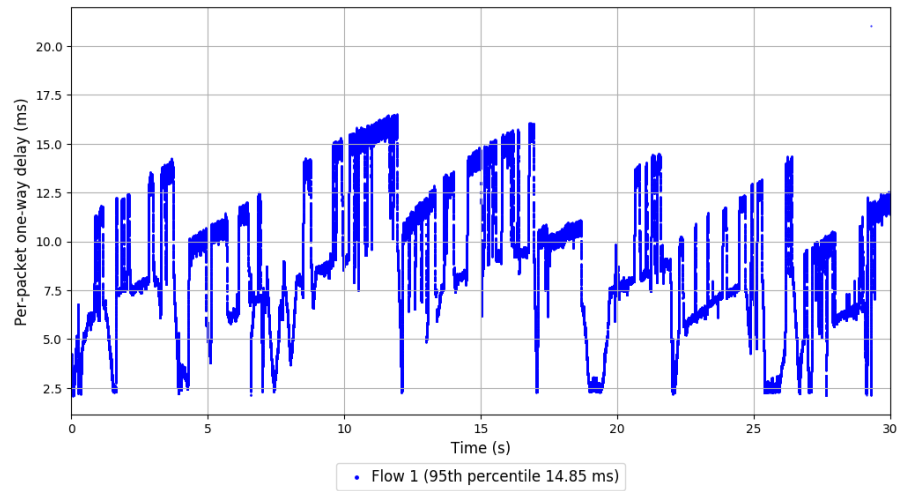
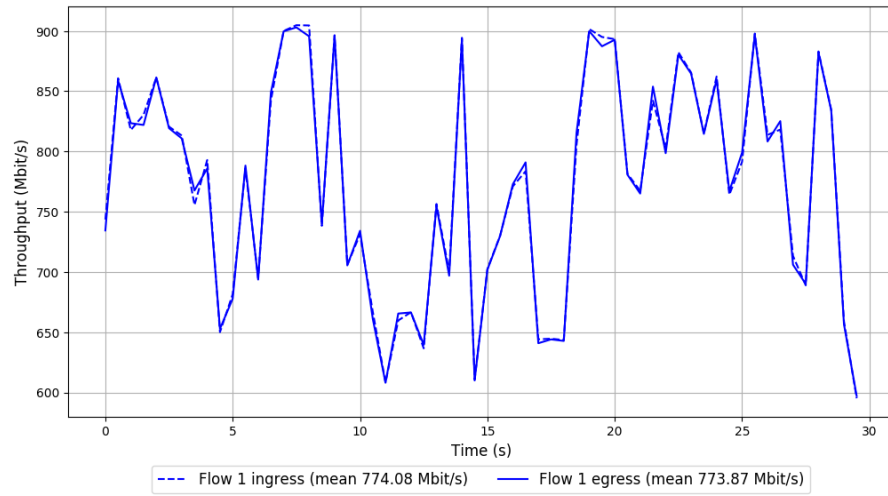


Run 9: Statistics of TCP Cubic

Start at: 2017-12-11 16:19:00
End at: 2017-12-11 16:19:30
Local clock offset: 1.055 ms
Remote clock offset: -0.356 ms

Below is generated by plot.py at 2017-12-11 18:59:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 773.87 Mbit/s
95th percentile per-packet one-way delay: 14.850 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 773.87 Mbit/s
95th percentile per-packet one-way delay: 14.850 ms
Loss rate: 0.03%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-12-11 16:37:04

End at: 2017-12-11 16:37:34

Local clock offset: 1.079 ms

Remote clock offset: -0.24 ms

Below is generated by plot.py at 2017-12-11 18:59:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 760.98 Mbit/s

95th percentile per-packet one-way delay: 12.371 ms

Loss rate: 0.01%

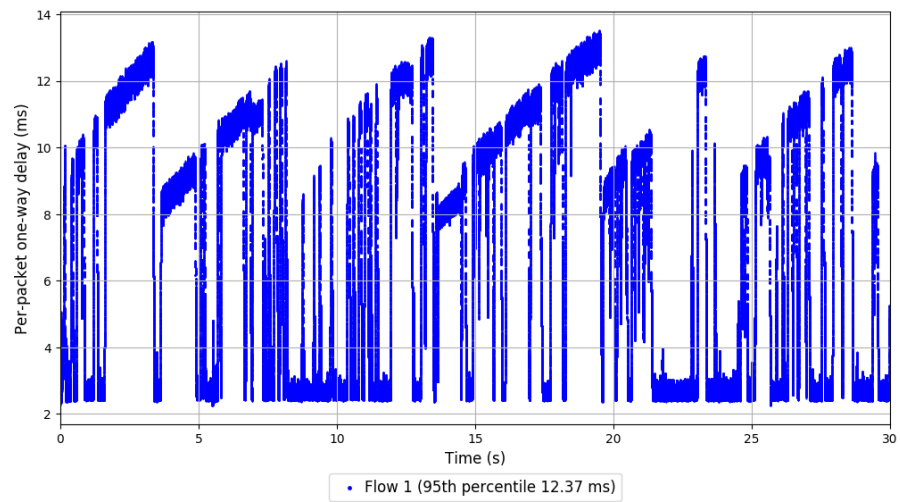
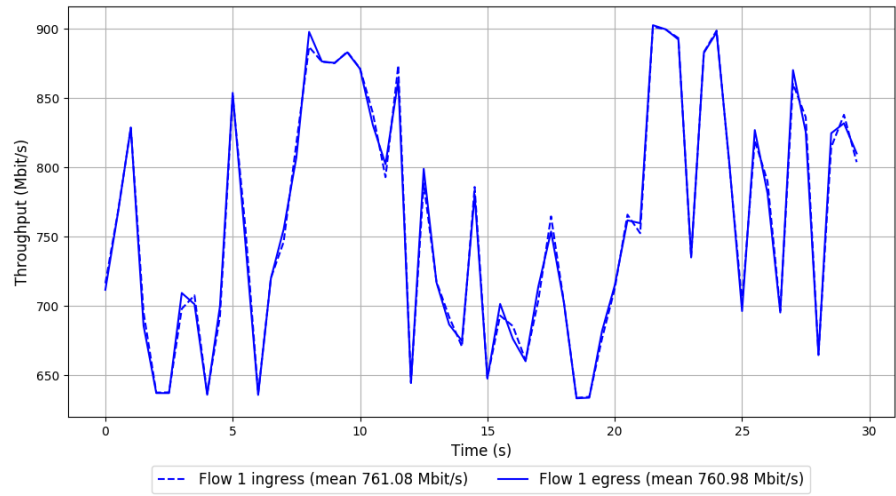
-- Flow 1:

Average throughput: 760.98 Mbit/s

95th percentile per-packet one-way delay: 12.371 ms

Loss rate: 0.01%

Run 10: Report of TCP Cubic — Data Link

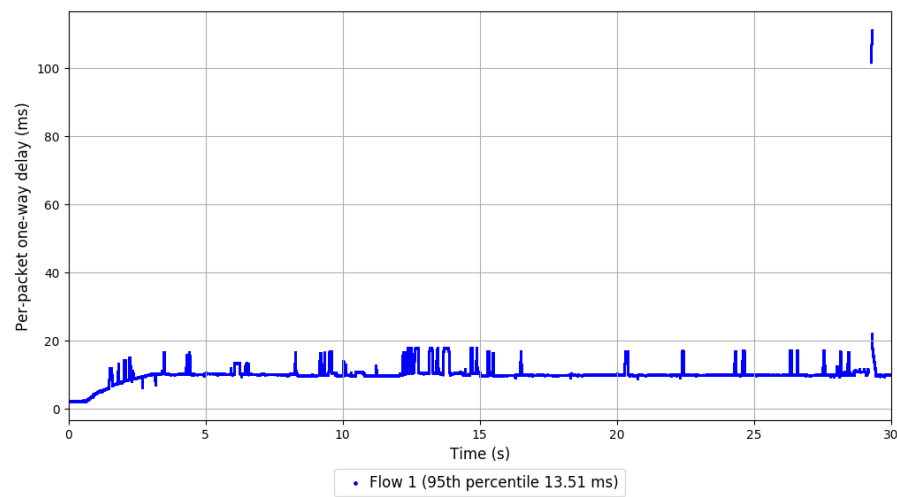
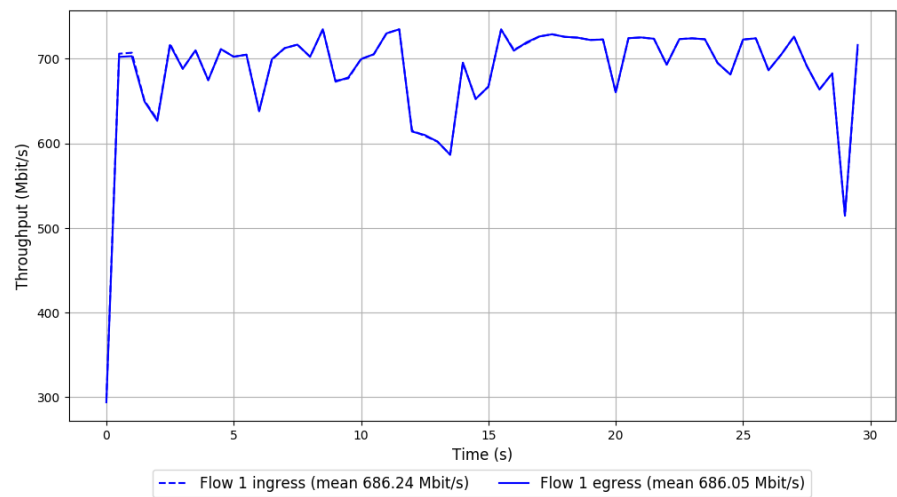


```
Run 1: Statistics of LEDBAT

Start at: 2017-12-11 14:01:27
End at: 2017-12-11 14:01:57
Local clock offset: -2.032 ms
Remote clock offset: 0.579 ms

# Below is generated by plot.py at 2017-12-11 18:59:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 686.05 Mbit/s
95th percentile per-packet one-way delay: 13.513 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 686.05 Mbit/s
95th percentile per-packet one-way delay: 13.513 ms
Loss rate: 0.03%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2017-12-11 14:19:37

End at: 2017-12-11 14:20:07

Local clock offset: -1.611 ms

Remote clock offset: 0.224 ms

Below is generated by plot.py at 2017-12-11 18:59:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 524.44 Mbit/s

95th percentile per-packet one-way delay: 18.115 ms

Loss rate: 0.01%

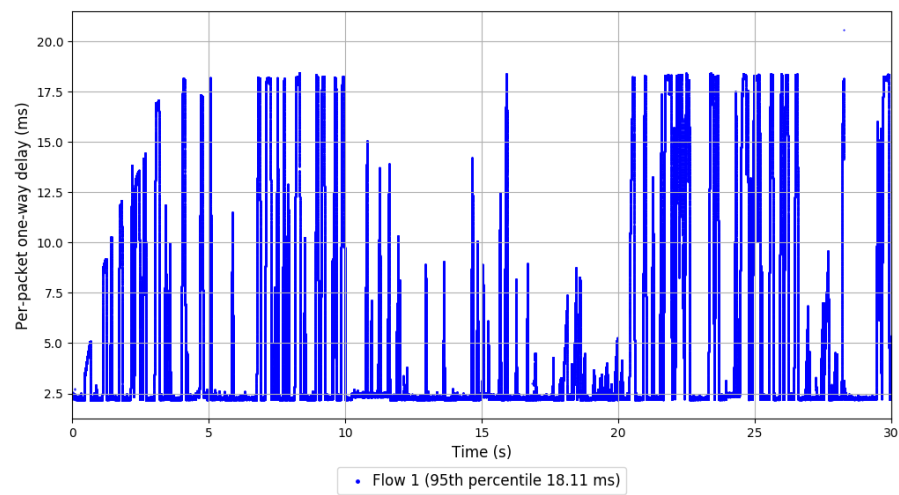
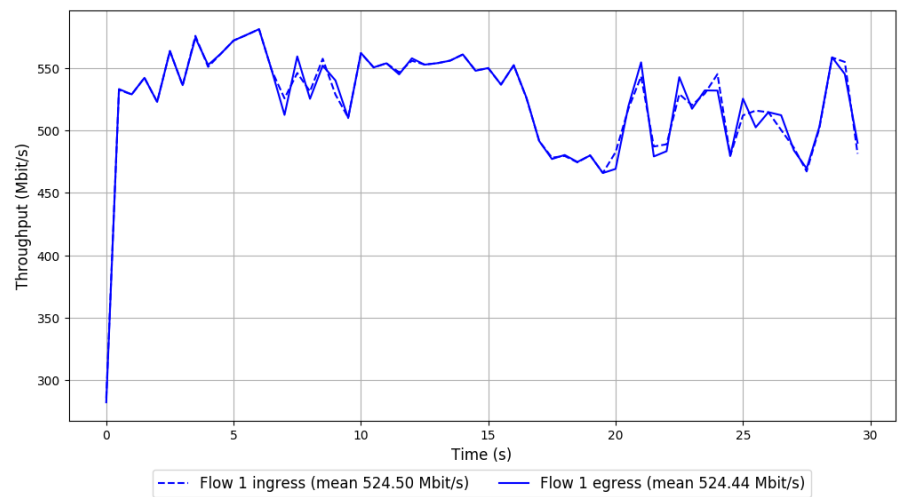
-- Flow 1:

Average throughput: 524.44 Mbit/s

95th percentile per-packet one-way delay: 18.115 ms

Loss rate: 0.01%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-12-11 14:37:44

End at: 2017-12-11 14:38:14

Local clock offset: -0.997 ms

Remote clock offset: 0.299 ms

Below is generated by plot.py at 2017-12-11 18:59:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 541.58 Mbit/s

95th percentile per-packet one-way delay: 17.799 ms

Loss rate: 0.00%

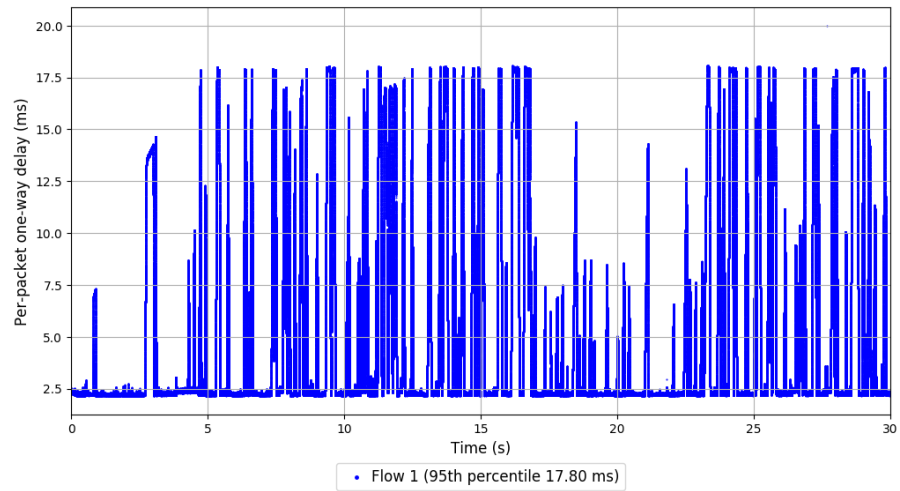
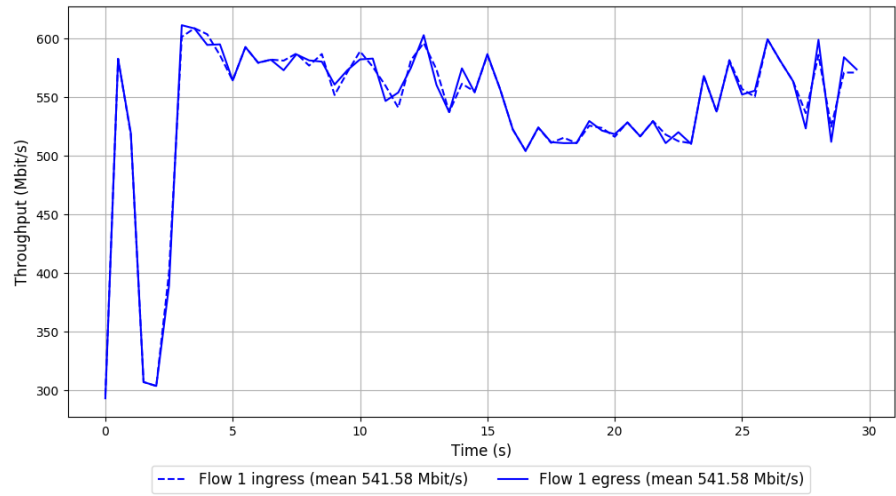
-- Flow 1:

Average throughput: 541.58 Mbit/s

95th percentile per-packet one-way delay: 17.799 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-12-11 14:55:56

End at: 2017-12-11 14:56:26

Local clock offset: -0.495 ms

Remote clock offset: 0.183 ms

Below is generated by plot.py at 2017-12-11 18:59:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 578.84 Mbit/s

95th percentile per-packet one-way delay: 18.049 ms

Loss rate: 0.03%

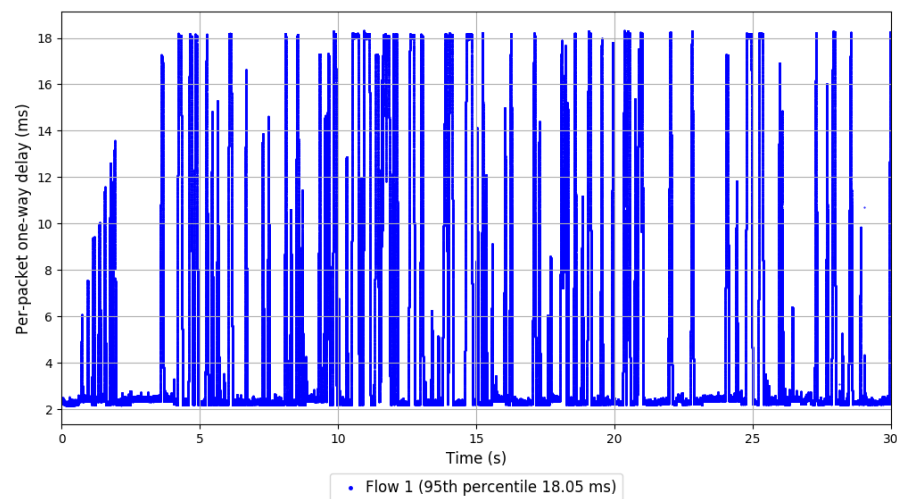
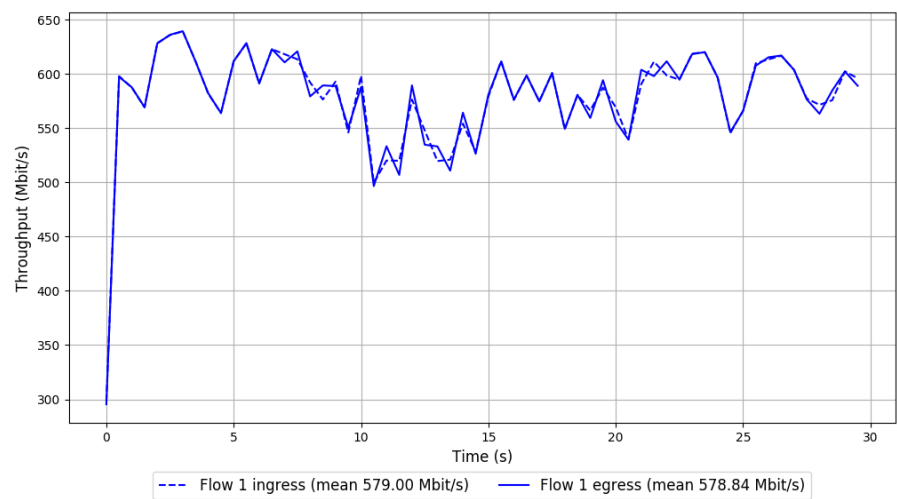
-- Flow 1:

Average throughput: 578.84 Mbit/s

95th percentile per-packet one-way delay: 18.049 ms

Loss rate: 0.03%

Run 4: Report of LEDBAT — Data Link

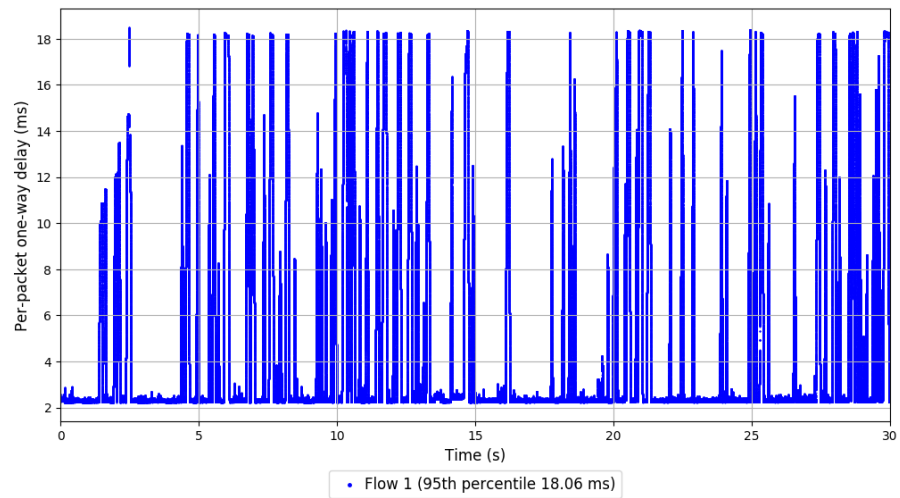
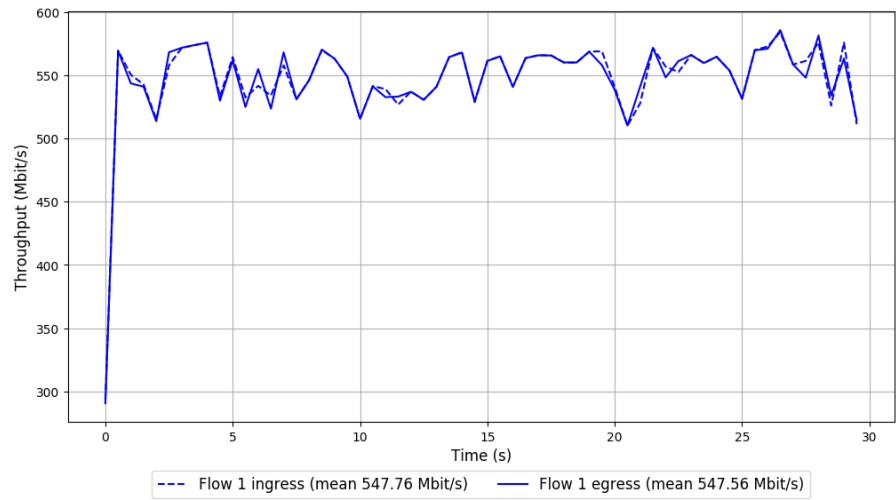


Run 5: Statistics of LEDBAT

Start at: 2017-12-11 15:14:05
End at: 2017-12-11 15:14:35
Local clock offset: -0.087 ms
Remote clock offset: -0.077 ms

Below is generated by plot.py at 2017-12-11 19:02:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 547.56 Mbit/s
95th percentile per-packet one-way delay: 18.056 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 547.56 Mbit/s
95th percentile per-packet one-way delay: 18.056 ms
Loss rate: 0.04%

Run 5: Report of LEDBAT — Data Link

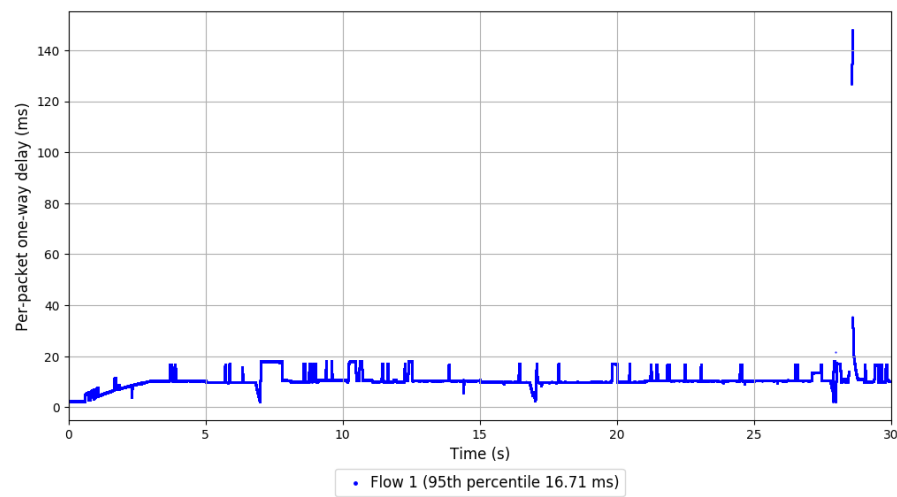
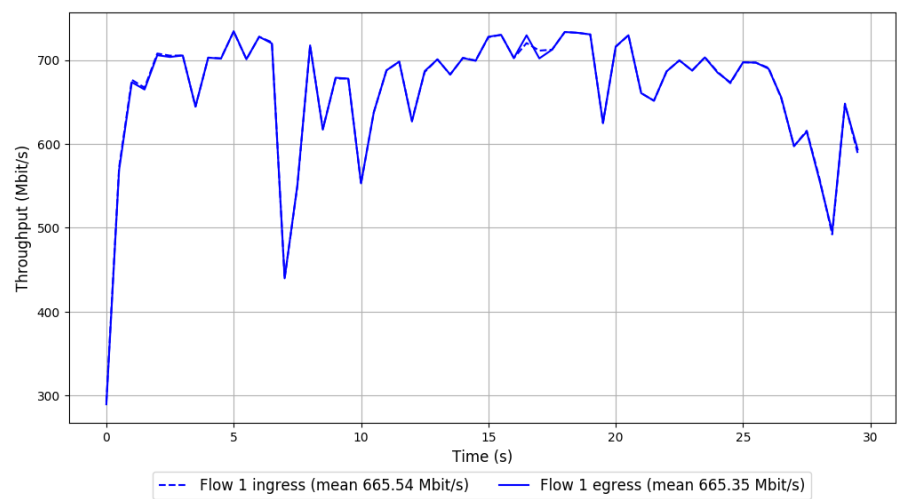


Run 6: Statistics of LEDBAT

Start at: 2017-12-11 15:32:05
End at: 2017-12-11 15:32:35
Local clock offset: 0.411 ms
Remote clock offset: -0.214 ms

Below is generated by plot.py at 2017-12-11 19:05:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 665.35 Mbit/s
95th percentile per-packet one-way delay: 16.710 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 665.35 Mbit/s
95th percentile per-packet one-way delay: 16.710 ms
Loss rate: 0.03%

Run 6: Report of LEDBAT — Data Link

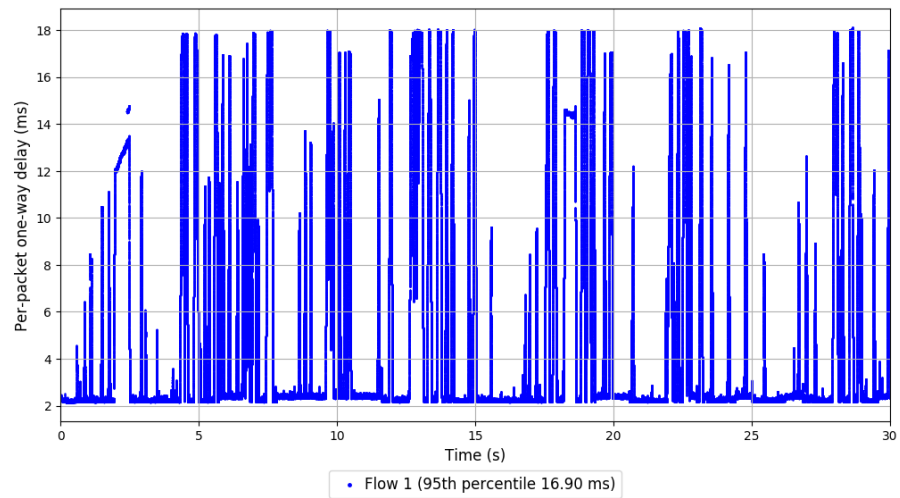
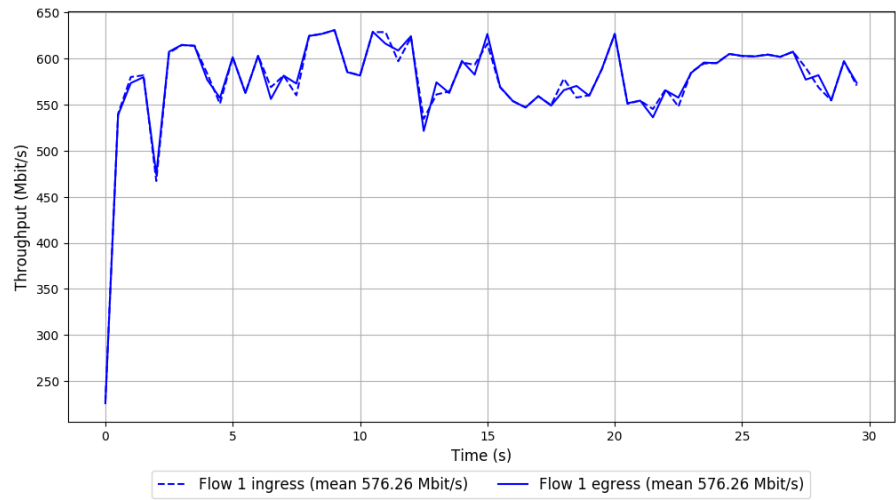


Run 7: Statistics of LEDBAT

Start at: 2017-12-11 15:50:15
End at: 2017-12-11 15:50:45
Local clock offset: 0.779 ms
Remote clock offset: -0.318 ms

Below is generated by plot.py at 2017-12-11 19:05:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 576.26 Mbit/s
95th percentile per-packet one-way delay: 16.897 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 576.26 Mbit/s
95th percentile per-packet one-way delay: 16.897 ms
Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link

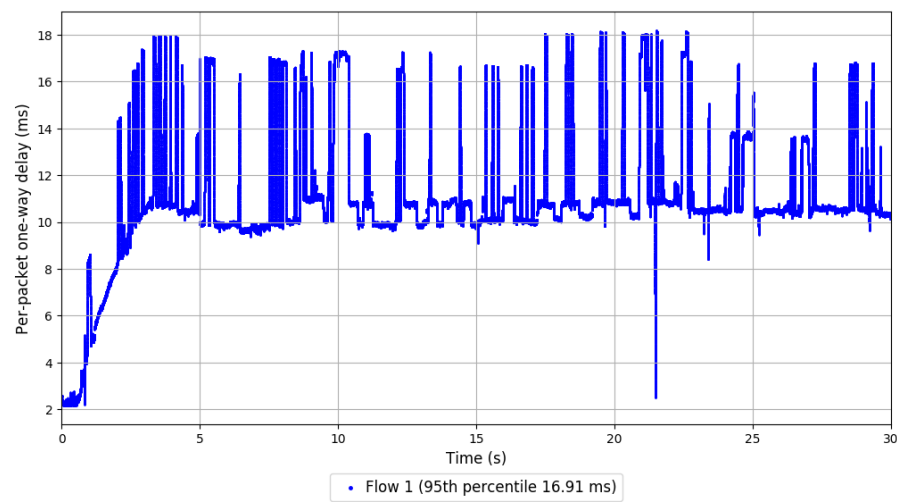
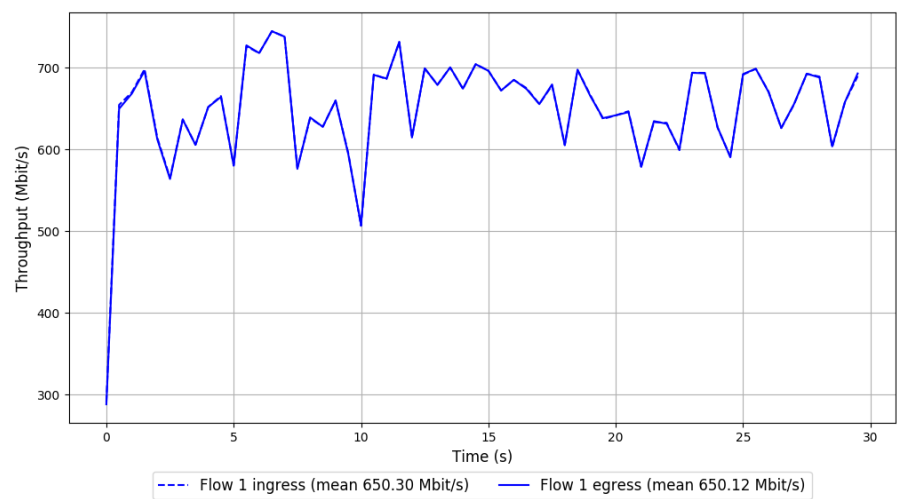


Run 8: Statistics of LEDBAT

Start at: 2017-12-11 16:08:18
End at: 2017-12-11 16:08:48
Local clock offset: 0.952 ms
Remote clock offset: -0.273 ms

Below is generated by plot.py at 2017-12-11 19:06:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 650.12 Mbit/s
95th percentile per-packet one-way delay: 16.908 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 650.12 Mbit/s
95th percentile per-packet one-way delay: 16.908 ms
Loss rate: 0.03%

Run 8: Report of LEDBAT — Data Link

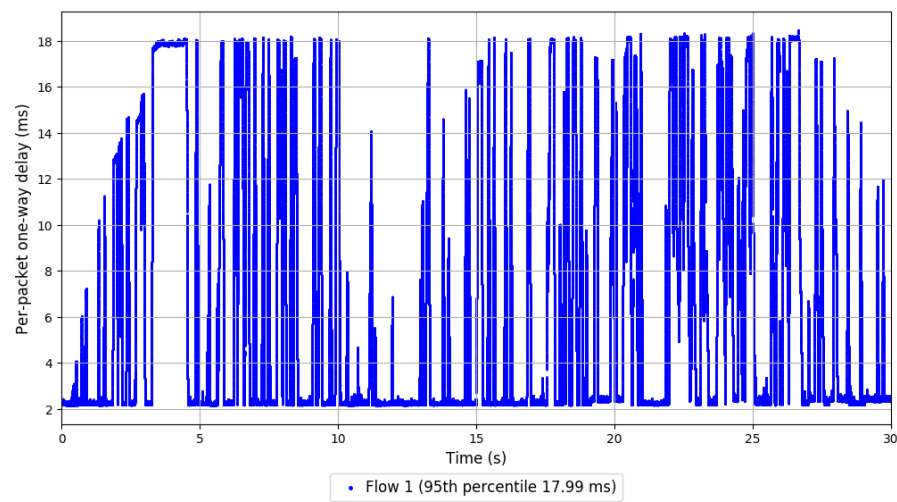
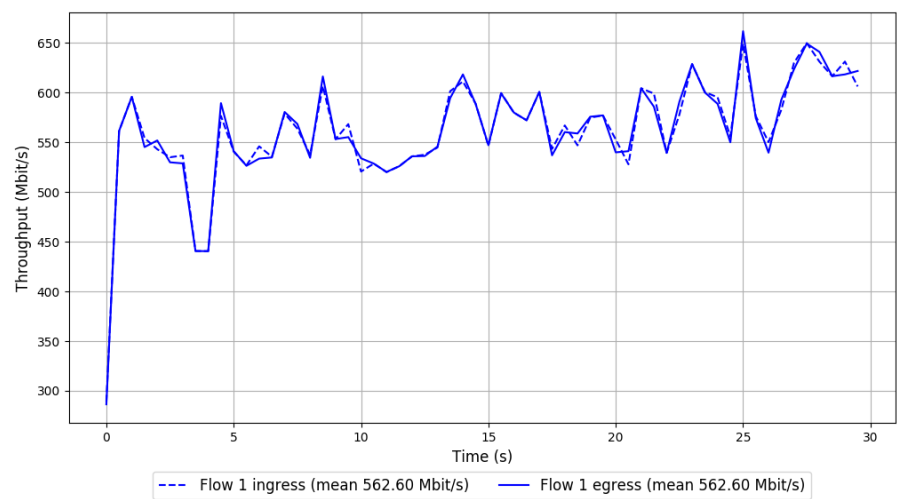


Run 9: Statistics of LEDBAT

Start at: 2017-12-11 16:26:31
End at: 2017-12-11 16:27:01
Local clock offset: 1.142 ms
Remote clock offset: -0.281 ms

Below is generated by plot.py at 2017-12-11 19:06:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 562.60 Mbit/s
95th percentile per-packet one-way delay: 17.988 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 562.60 Mbit/s
95th percentile per-packet one-way delay: 17.988 ms
Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-12-11 16:44:34

End at: 2017-12-11 16:45:04

Local clock offset: 1.136 ms

Remote clock offset: -0.245 ms

Below is generated by plot.py at 2017-12-11 19:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 600.63 Mbit/s

95th percentile per-packet one-way delay: 17.266 ms

Loss rate: 0.03%

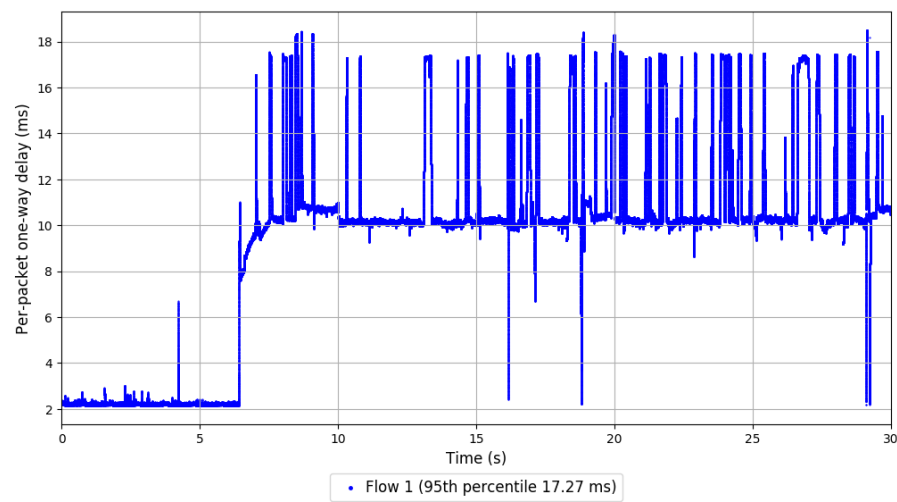
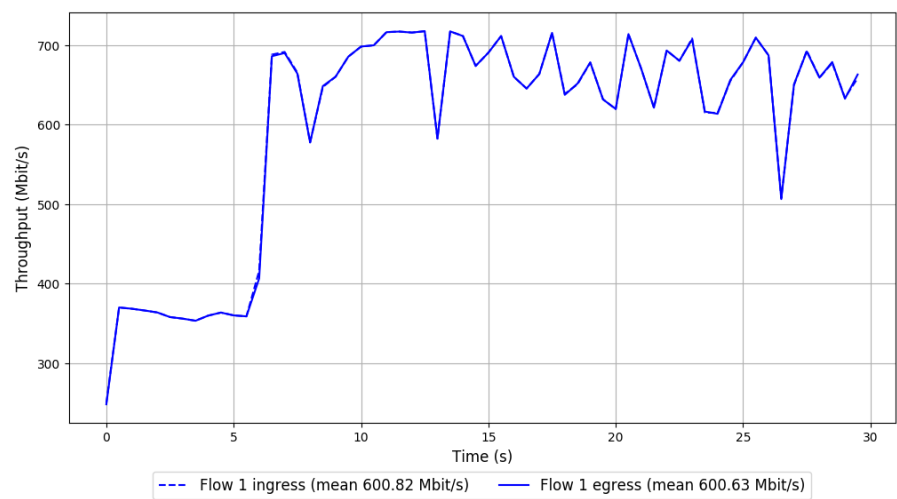
-- Flow 1:

Average throughput: 600.63 Mbit/s

95th percentile per-packet one-way delay: 17.266 ms

Loss rate: 0.03%

Run 10: Report of LEDBAT — Data Link

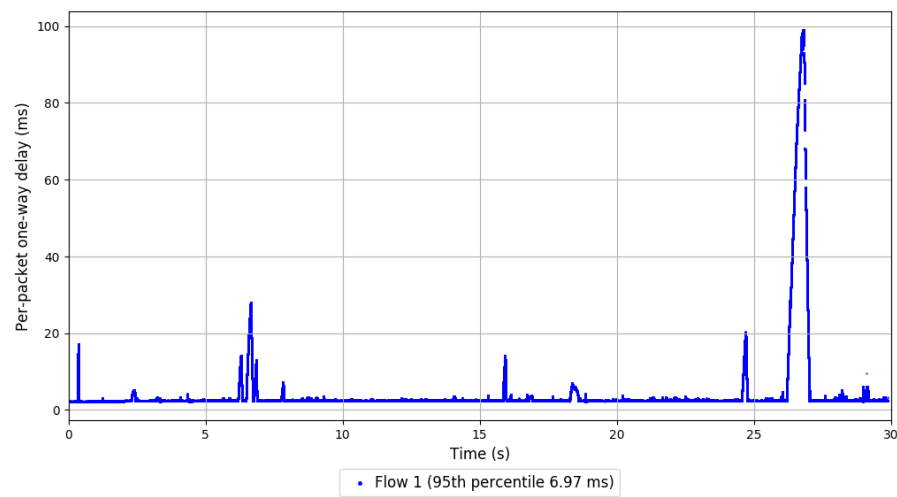
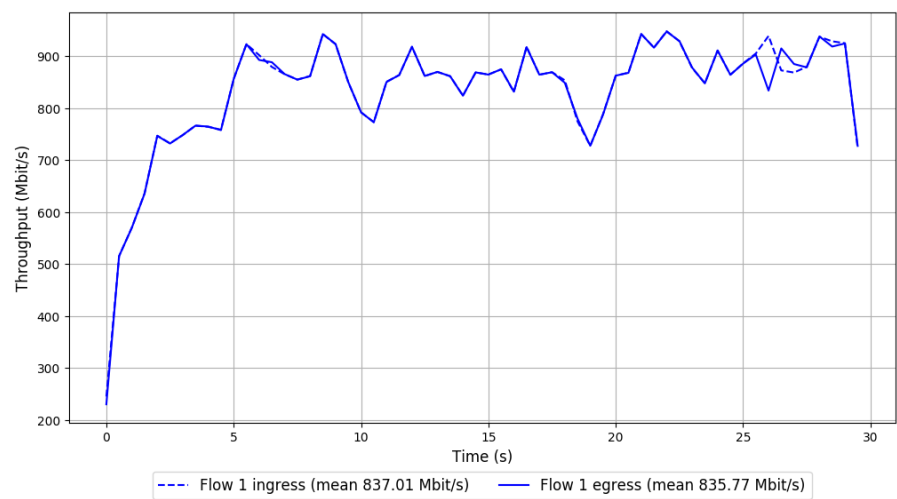


```
Run 1: Statistics of PCC

Start at: 2017-12-11 13:56:47
End at: 2017-12-11 13:57:17
Local clock offset: -2.057 ms
Remote clock offset: 0.707 ms

# Below is generated by plot.py at 2017-12-11 19:09:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 835.77 Mbit/s
95th percentile per-packet one-way delay: 6.972 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 835.77 Mbit/s
95th percentile per-packet one-way delay: 6.972 ms
Loss rate: 0.15%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-12-11 14:14:55

End at: 2017-12-11 14:15:25

Local clock offset: -1.757 ms

Remote clock offset: 0.288 ms

Below is generated by plot.py at 2017-12-11 19:10:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 845.24 Mbit/s

95th percentile per-packet one-way delay: 89.548 ms

Loss rate: 1.44%

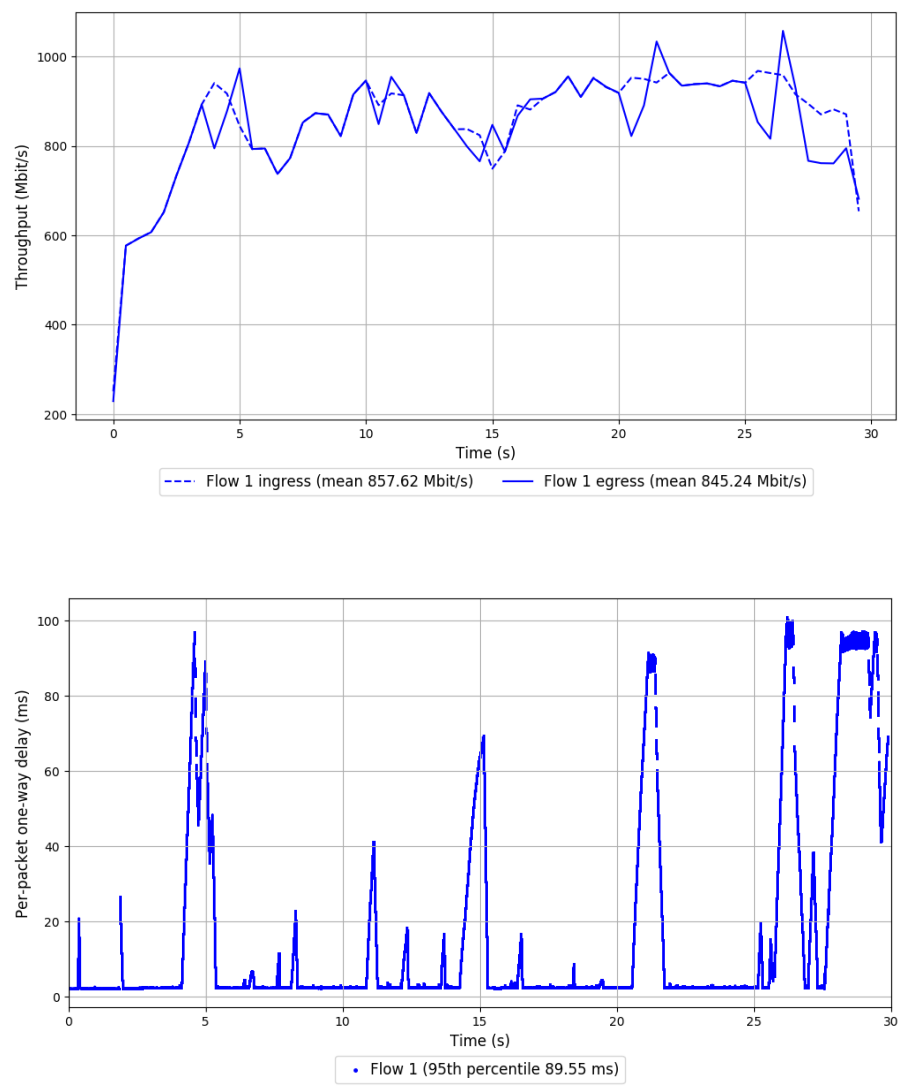
-- Flow 1:

Average throughput: 845.24 Mbit/s

95th percentile per-packet one-way delay: 89.548 ms

Loss rate: 1.44%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-12-11 14:33:01

End at: 2017-12-11 14:33:31

Local clock offset: -1.162 ms

Remote clock offset: 0.257 ms

Below is generated by plot.py at 2017-12-11 19:15:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 872.06 Mbit/s

95th percentile per-packet one-way delay: 74.387 ms

Loss rate: 0.56%

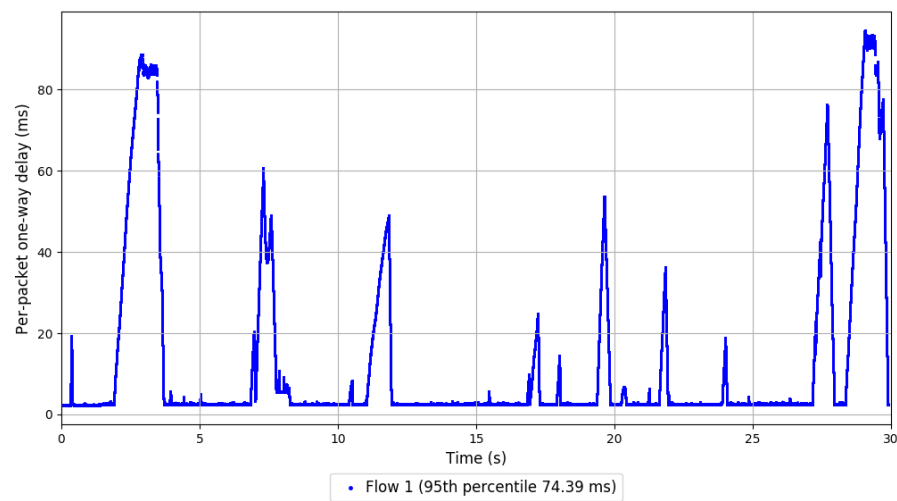
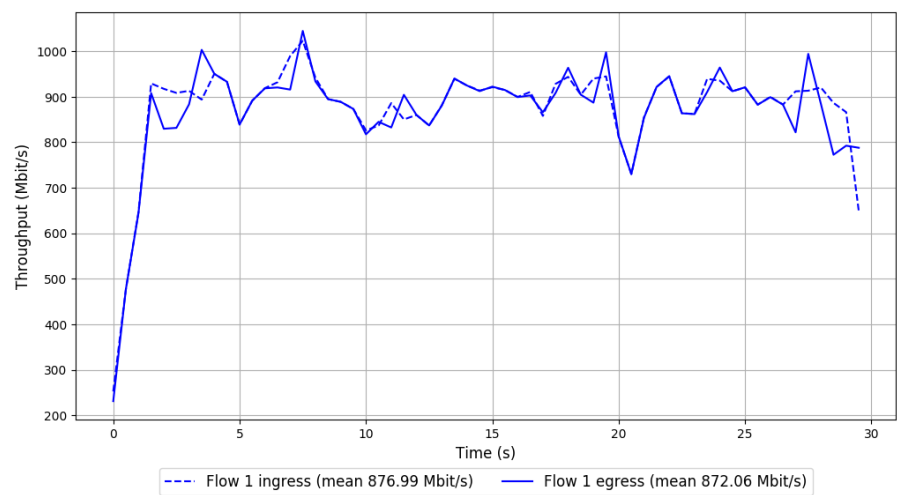
-- Flow 1:

Average throughput: 872.06 Mbit/s

95th percentile per-packet one-way delay: 74.387 ms

Loss rate: 0.56%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-12-11 14:51:15

End at: 2017-12-11 14:51:45

Local clock offset: -0.683 ms

Remote clock offset: 0.276 ms

Below is generated by plot.py at 2017-12-11 19:16:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 816.89 Mbit/s

95th percentile per-packet one-way delay: 36.594 ms

Loss rate: 0.35%

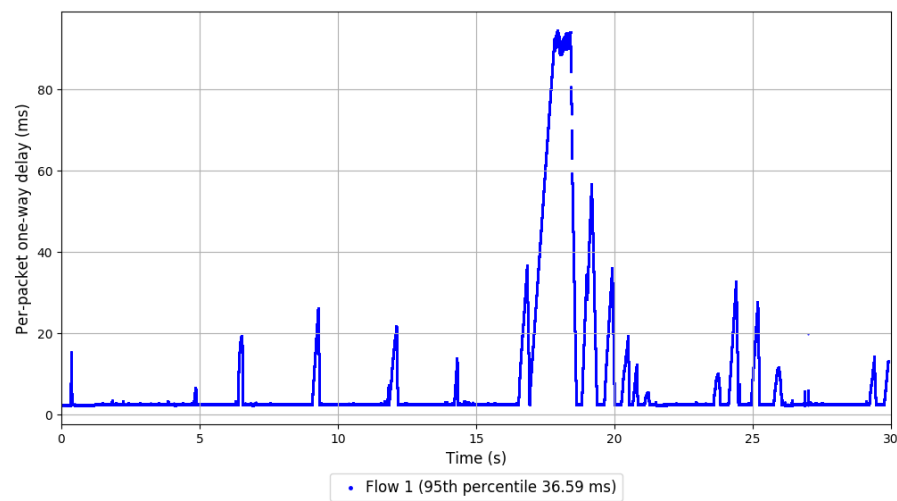
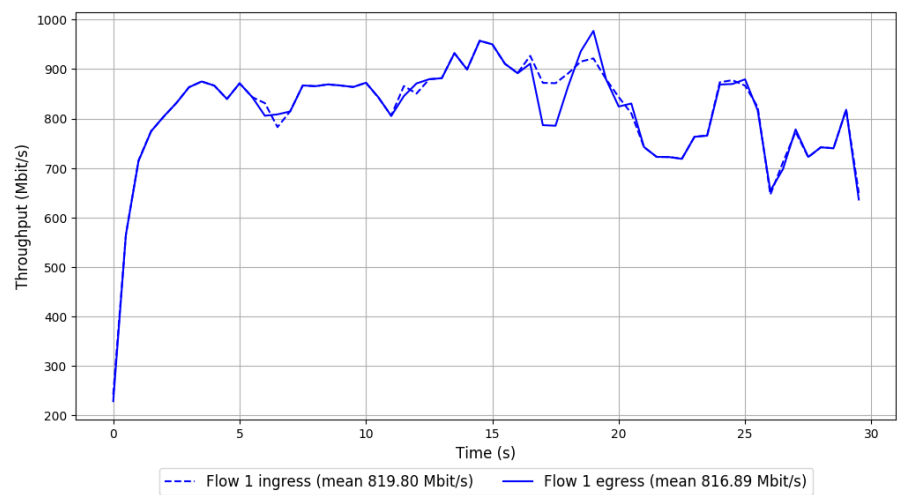
-- Flow 1:

Average throughput: 816.89 Mbit/s

95th percentile per-packet one-way delay: 36.594 ms

Loss rate: 0.35%

Run 4: Report of PCC — Data Link

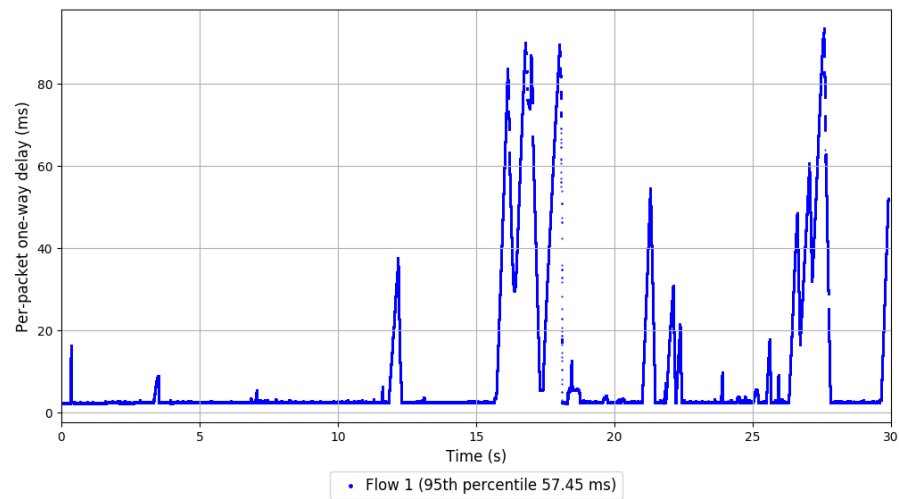
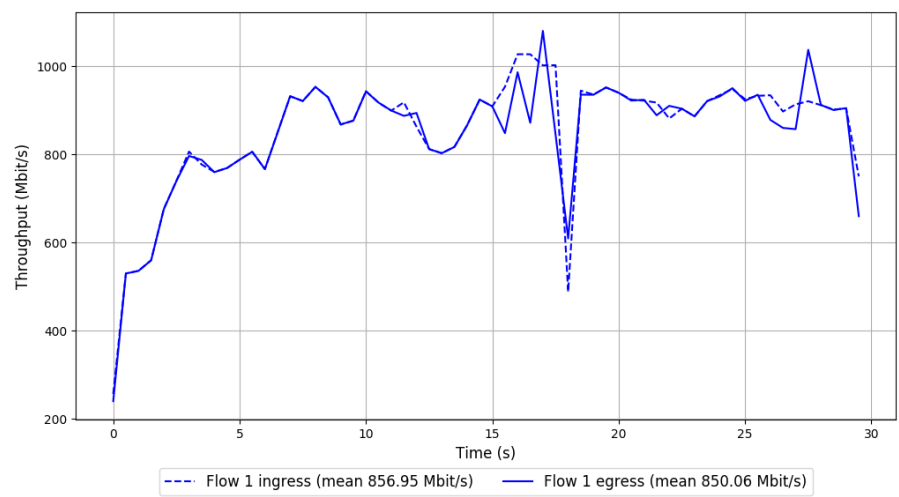


Run 5: Statistics of PCC

Start at: 2017-12-11 15:09:21
End at: 2017-12-11 15:09:51
Local clock offset: -0.207 ms
Remote clock offset: -0.034 ms

Below is generated by plot.py at 2017-12-11 19:17:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 850.06 Mbit/s
95th percentile per-packet one-way delay: 57.449 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 850.06 Mbit/s
95th percentile per-packet one-way delay: 57.449 ms
Loss rate: 0.80%

Run 5: Report of PCC — Data Link

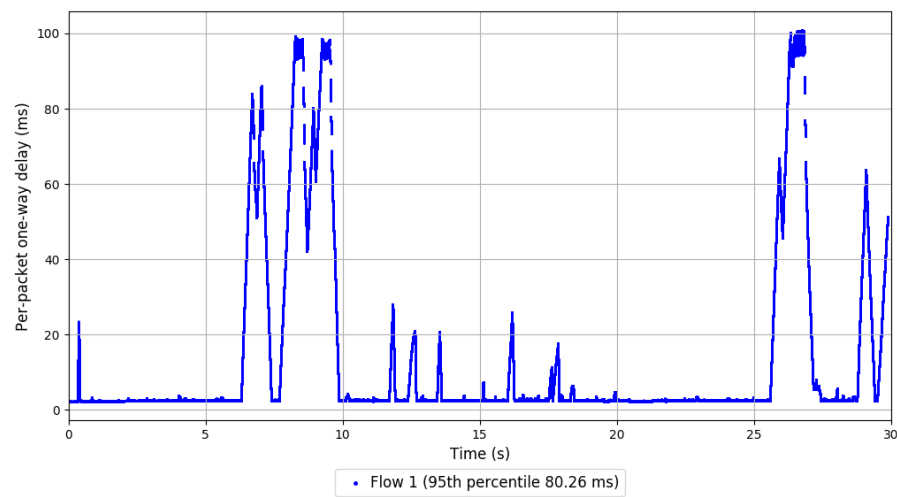
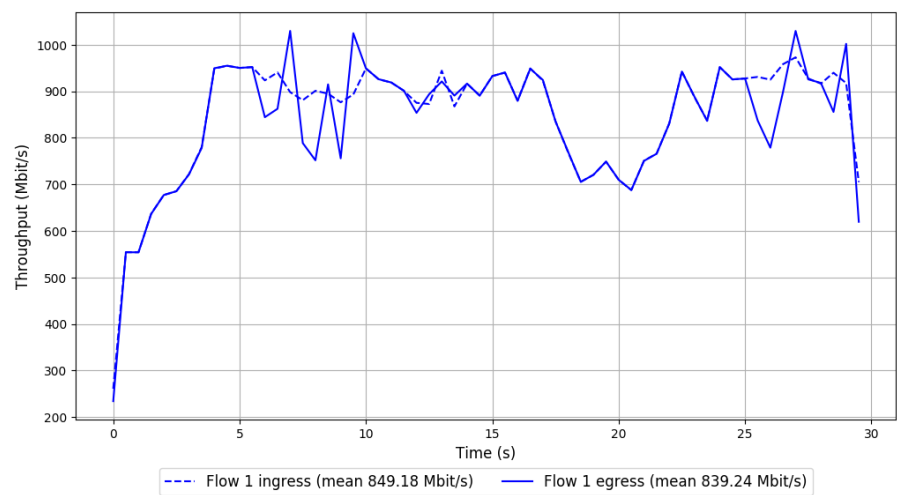


Run 6: Statistics of PCC

Start at: 2017-12-11 15:27:24
End at: 2017-12-11 15:27:54
Local clock offset: 0.298 ms
Remote clock offset: -0.174 ms

Below is generated by plot.py at 2017-12-11 19:17:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 839.24 Mbit/s
95th percentile per-packet one-way delay: 80.259 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 839.24 Mbit/s
95th percentile per-packet one-way delay: 80.259 ms
Loss rate: 1.17%

Run 6: Report of PCC — Data Link

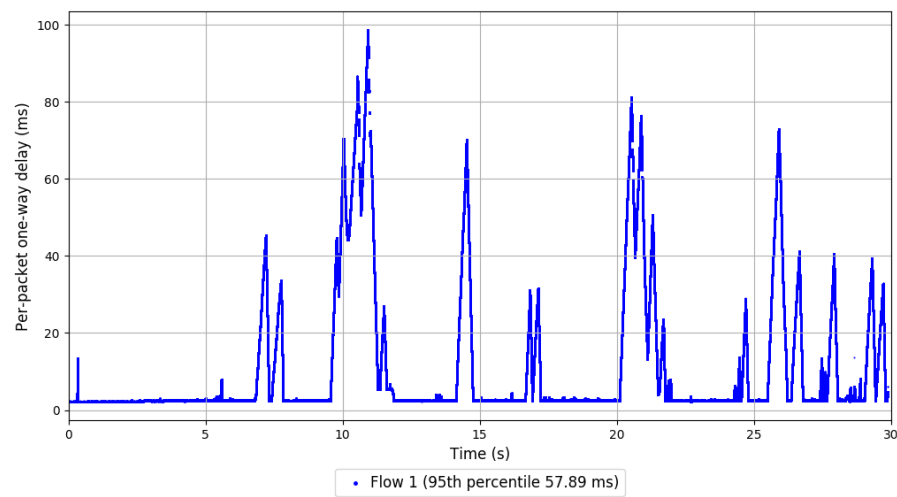
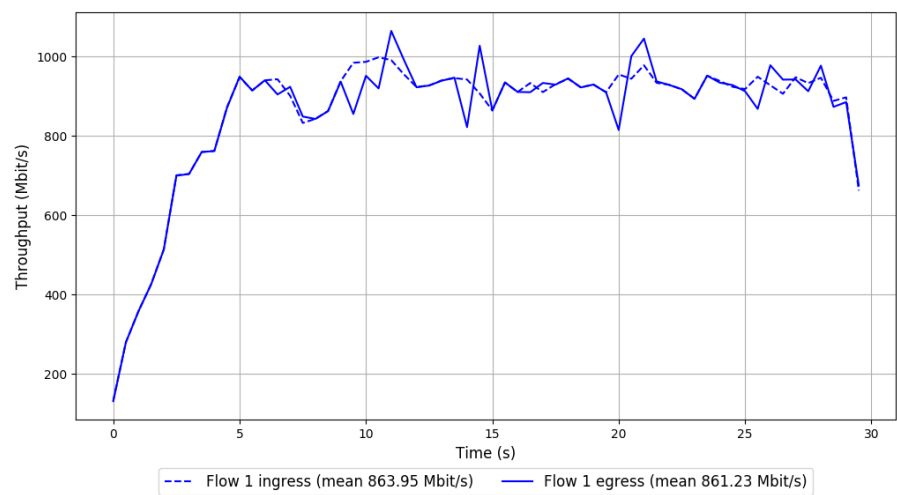


Run 7: Statistics of PCC

Start at: 2017-12-11 15:45:30
End at: 2017-12-11 15:46:00
Local clock offset: 0.672 ms
Remote clock offset: -0.303 ms

Below is generated by plot.py at 2017-12-11 19:18:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 861.23 Mbit/s
95th percentile per-packet one-way delay: 57.894 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 861.23 Mbit/s
95th percentile per-packet one-way delay: 57.894 ms
Loss rate: 0.31%

Run 7: Report of PCC — Data Link

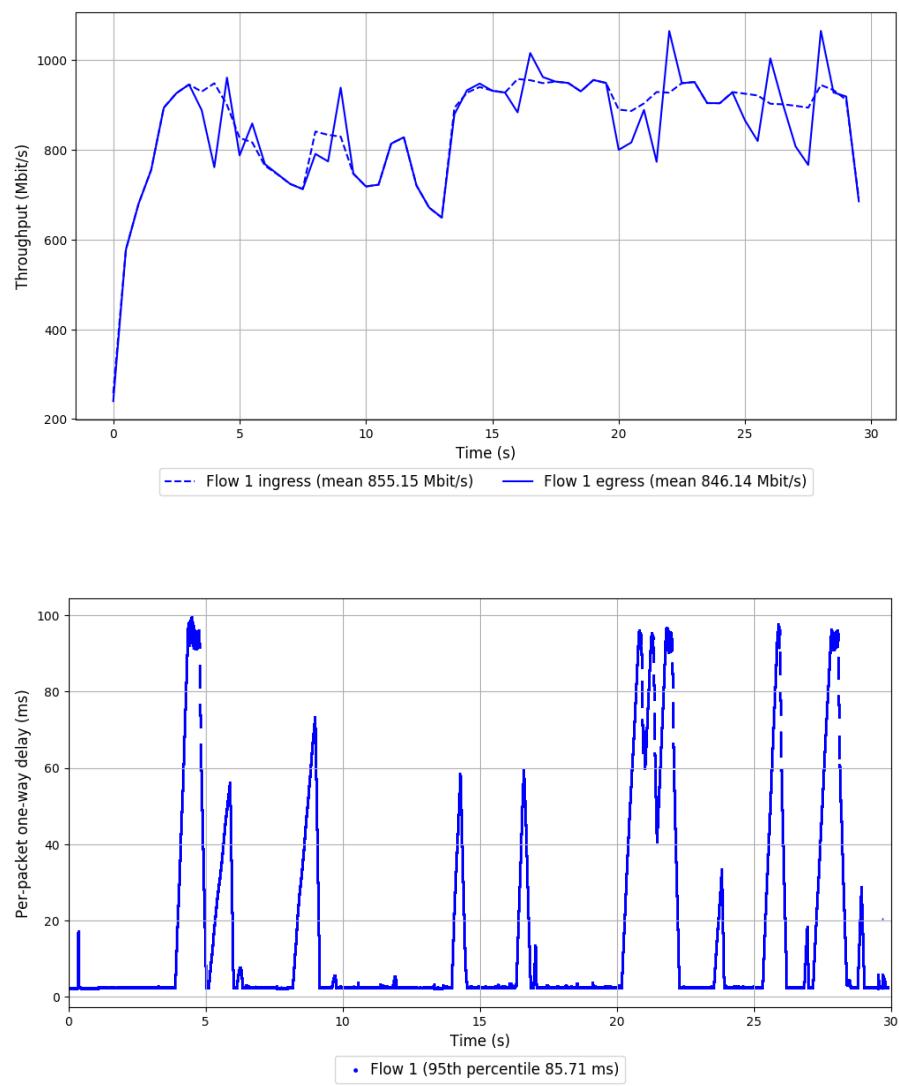


Run 8: Statistics of PCC

Start at: 2017-12-11 16:03:36
End at: 2017-12-11 16:04:06
Local clock offset: 0.955 ms
Remote clock offset: -0.291 ms

Below is generated by plot.py at 2017-12-11 19:18:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 846.14 Mbit/s
95th percentile per-packet one-way delay: 85.713 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 846.14 Mbit/s
95th percentile per-packet one-way delay: 85.713 ms
Loss rate: 1.05%

Run 8: Report of PCC — Data Link

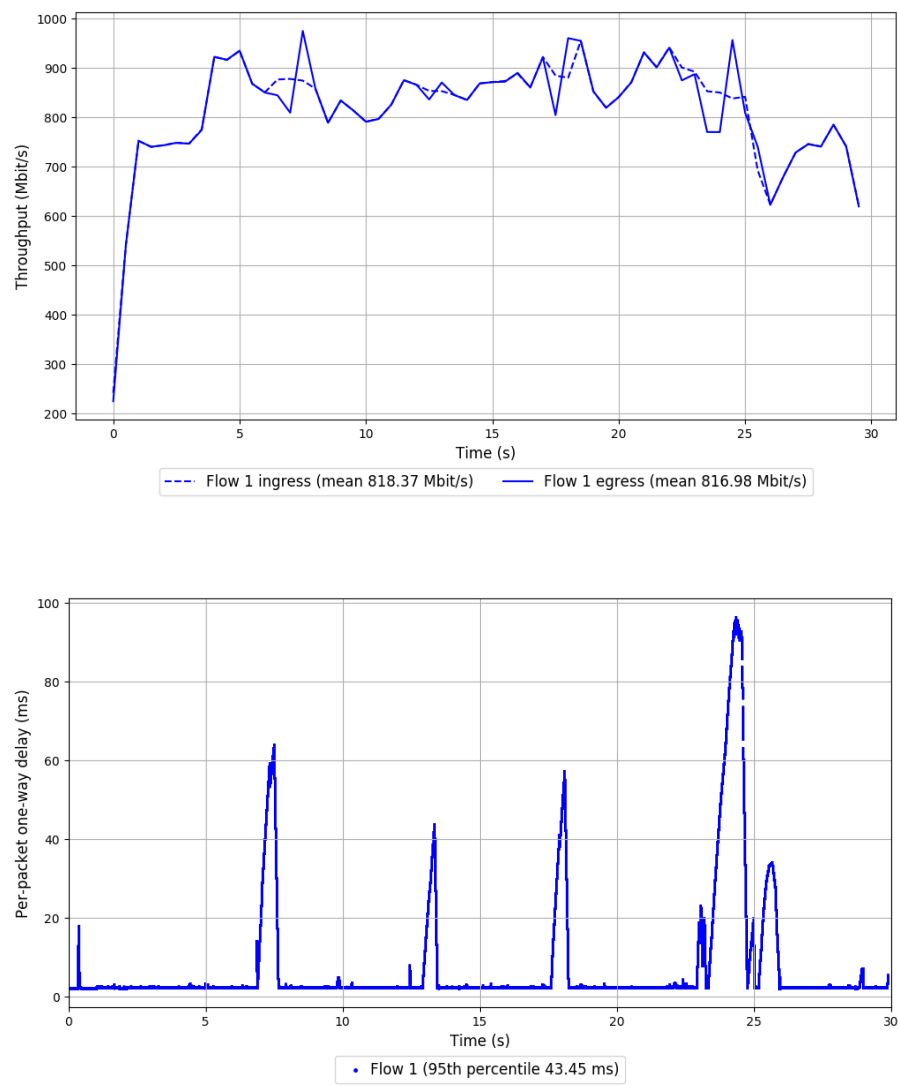


Run 9: Statistics of PCC

Start at: 2017-12-11 16:21:47
End at: 2017-12-11 16:22:17
Local clock offset: 1.105 ms
Remote clock offset: -0.275 ms

Below is generated by plot.py at 2017-12-11 19:22:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 816.98 Mbit/s
95th percentile per-packet one-way delay: 43.452 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 816.98 Mbit/s
95th percentile per-packet one-way delay: 43.452 ms
Loss rate: 0.17%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-12-11 16:39:51

End at: 2017-12-11 16:40:21

Local clock offset: 1.146 ms

Remote clock offset: -0.24 ms

Below is generated by plot.py at 2017-12-11 19:23:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 886.18 Mbit/s

95th percentile per-packet one-way delay: 69.962 ms

Loss rate: 0.86%

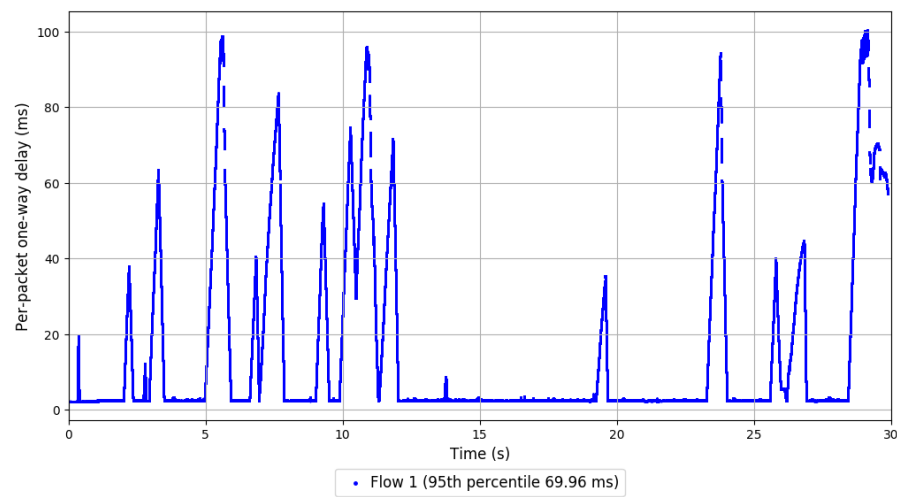
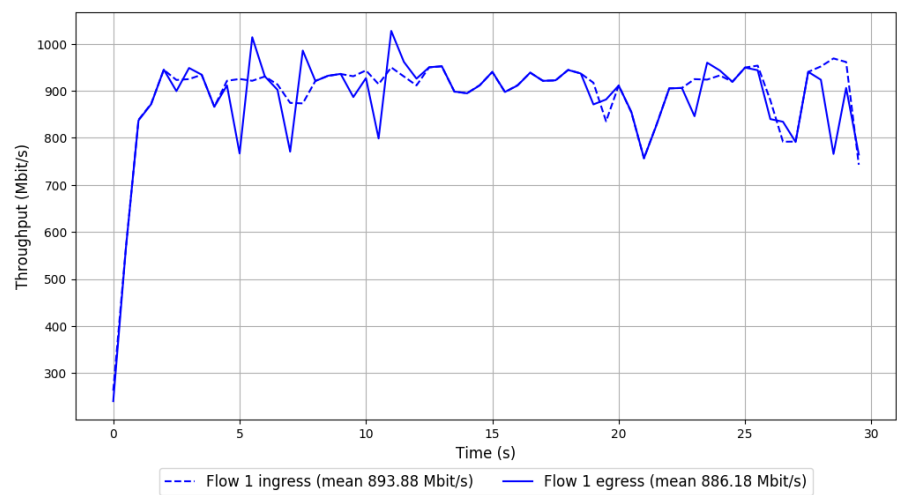
-- Flow 1:

Average throughput: 886.18 Mbit/s

95th percentile per-packet one-way delay: 69.962 ms

Loss rate: 0.86%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

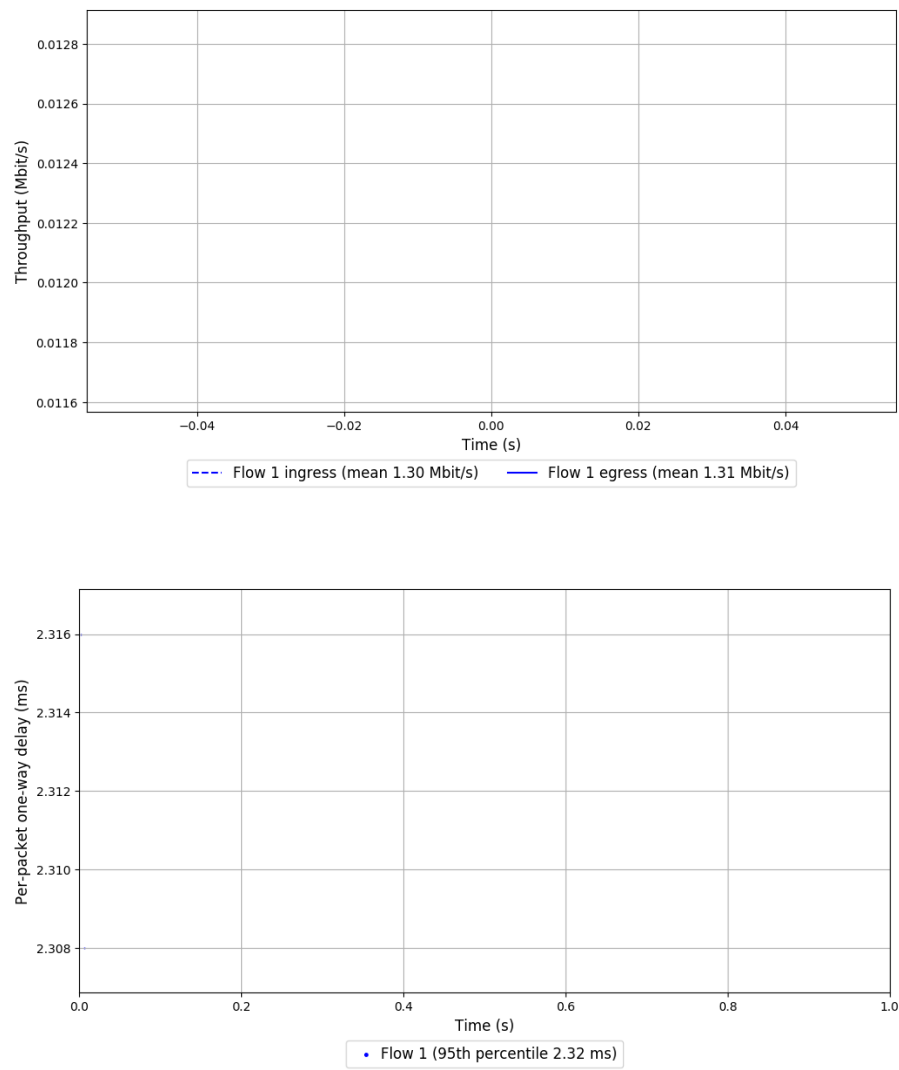
Start at: 2017-12-11 13:58:14

End at: 2017-12-11 13:58:44

Local clock offset: -2.129 ms

Remote clock offset: 0.695 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

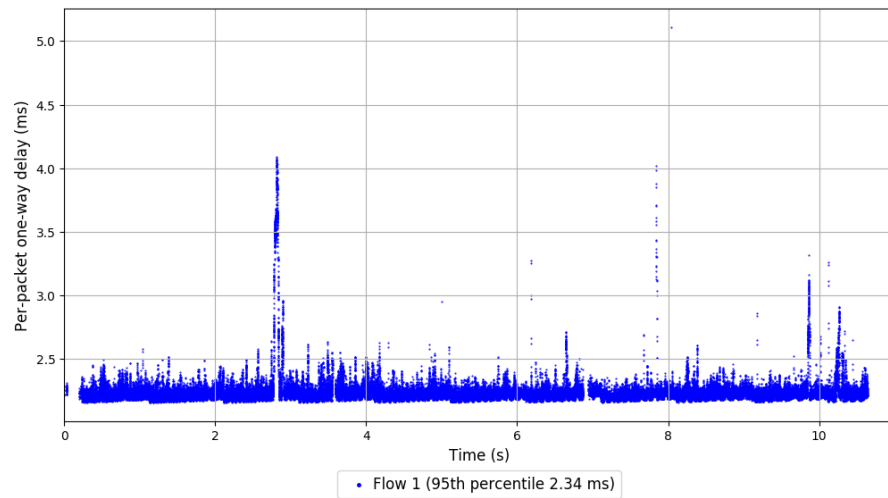
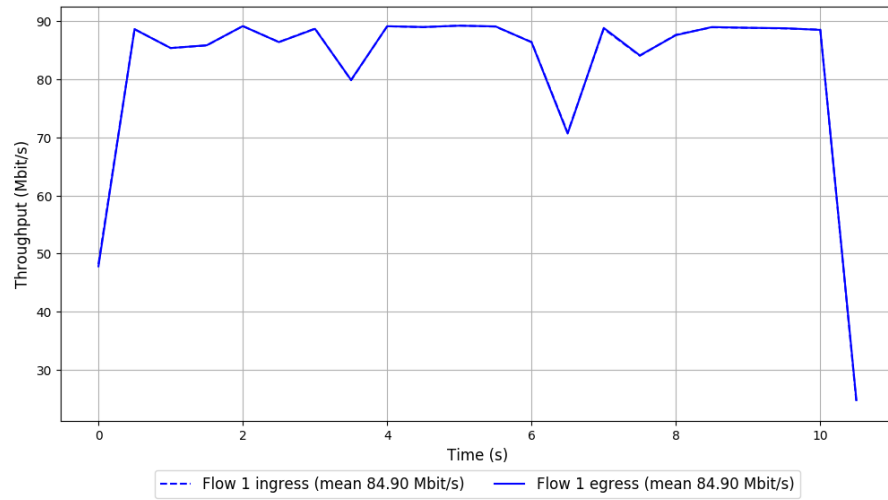
Start at: 2017-12-11 14:16:23

End at: 2017-12-11 14:16:53

Local clock offset: -1.735 ms

Remote clock offset: 0.249 ms

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

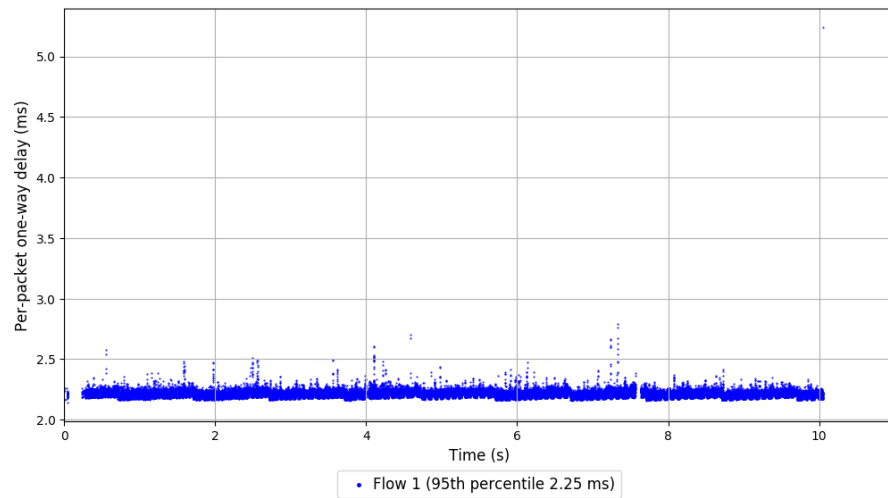
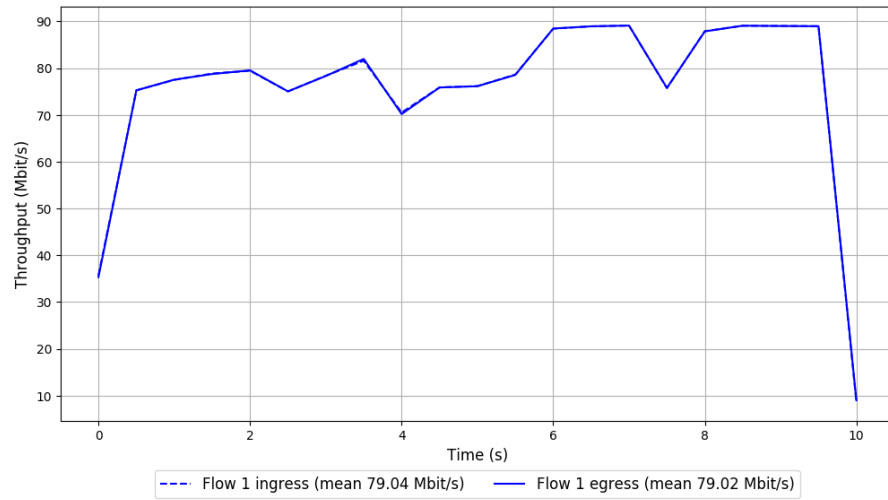
Start at: 2017-12-11 14:34:30

End at: 2017-12-11 14:35:00

Local clock offset: -1.127 ms

Remote clock offset: 0.298 ms

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

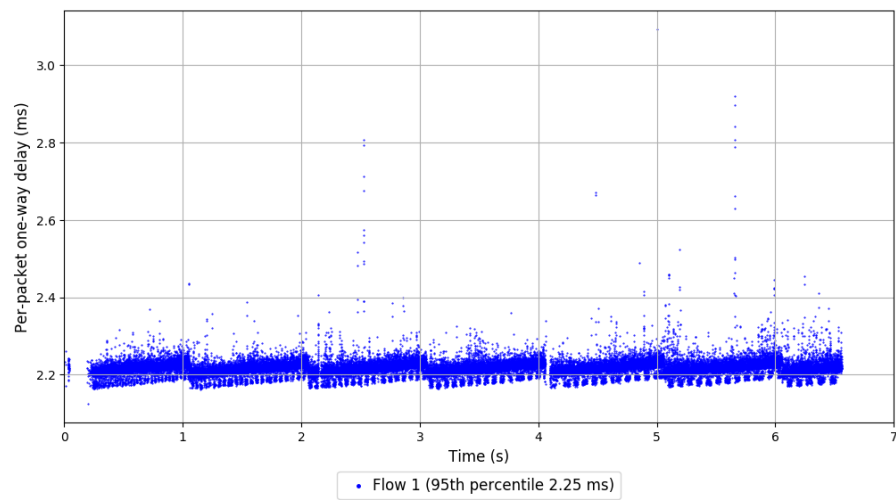
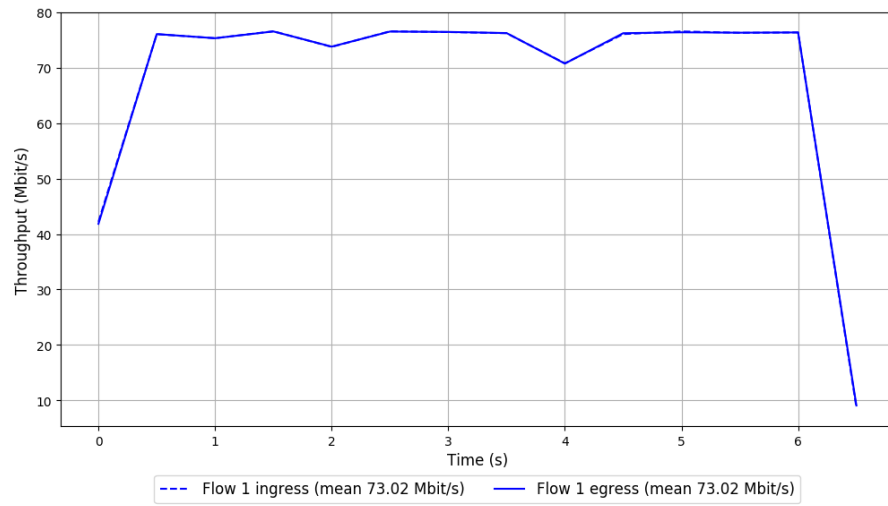
Start at: 2017-12-11 14:52:42

End at: 2017-12-11 14:53:12

Local clock offset: -0.588 ms

Remote clock offset: 0.247 ms

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

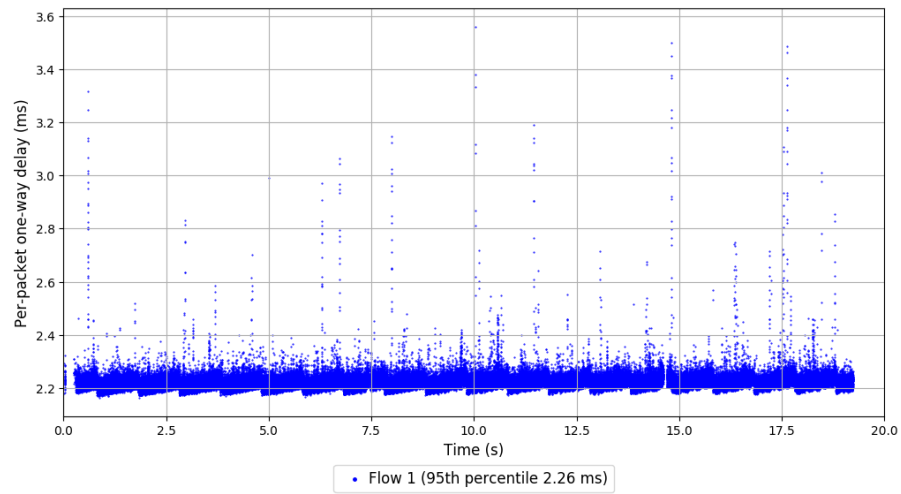
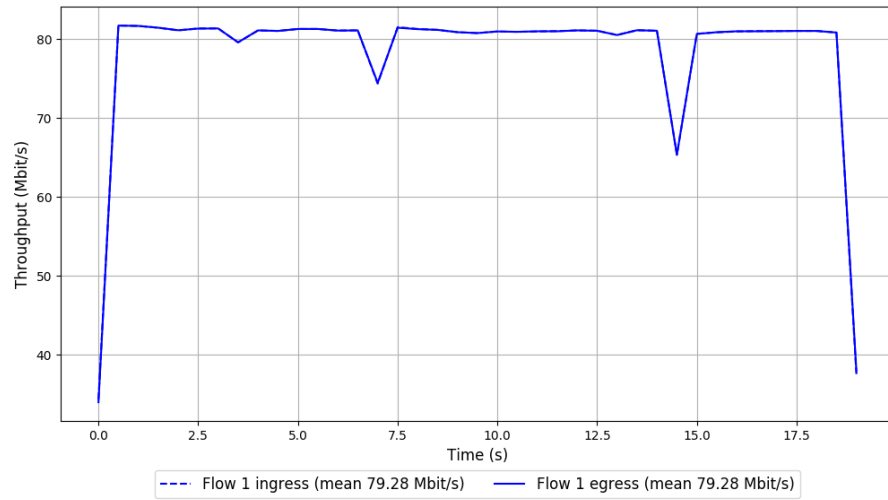
Start at: 2017-12-11 15:10:50

End at: 2017-12-11 15:11:20

Local clock offset: -0.103 ms

Remote clock offset: -0.025 ms

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

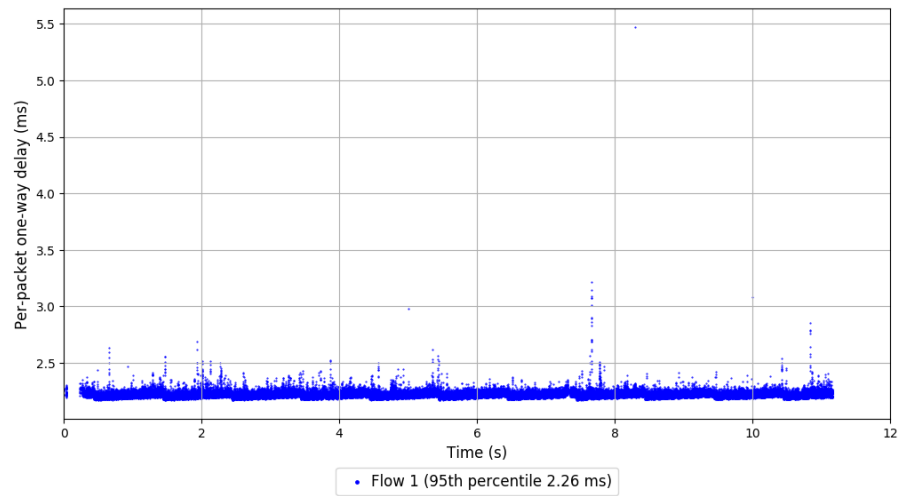
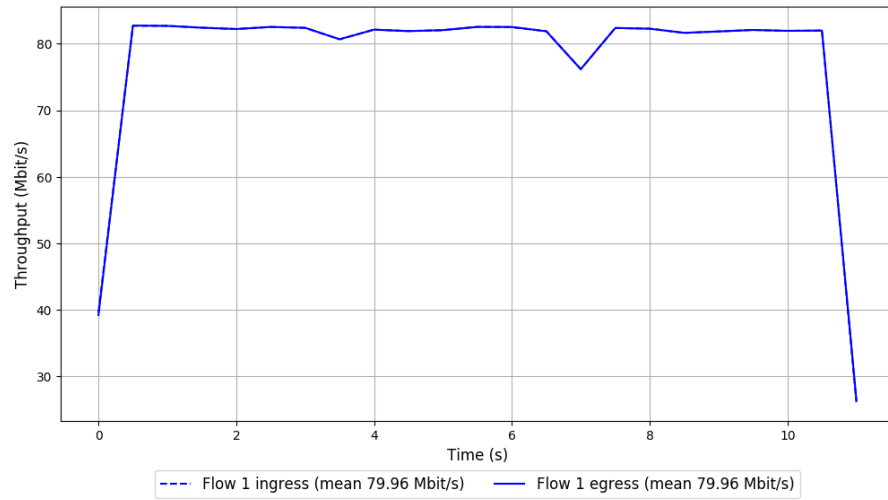
Start at: 2017-12-11 15:28:51

End at: 2017-12-11 15:29:22

Local clock offset: 0.331 ms

Remote clock offset: -0.185 ms

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-12-11 15:46:58

End at: 2017-12-11 15:47:28

Local clock offset: 0.684 ms

Remote clock offset: -0.317 ms

Below is generated by plot.py at 2017-12-11 19:23:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.05 Mbit/s

95th percentile per-packet one-way delay: 2.255 ms

Loss rate: 0.00%

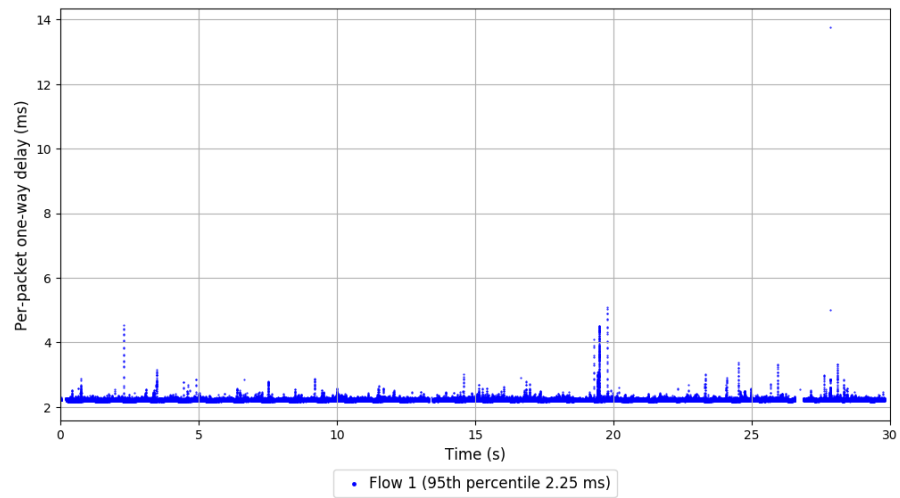
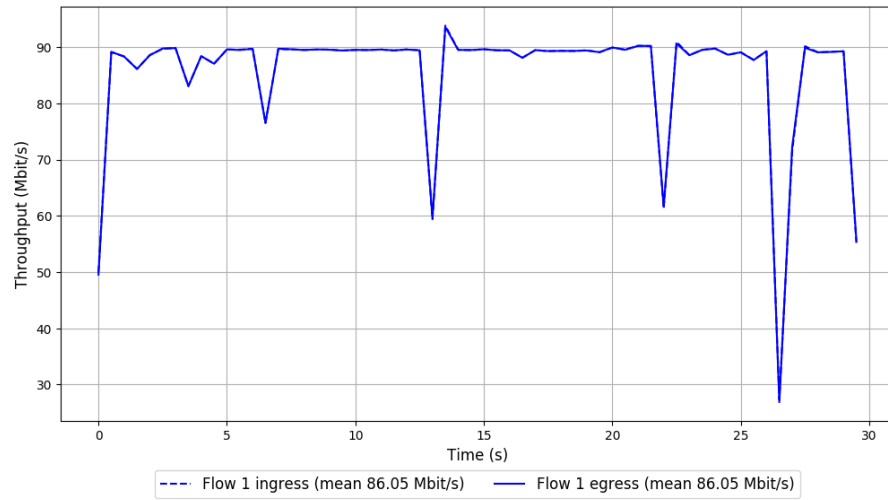
-- Flow 1:

Average throughput: 86.05 Mbit/s

95th percentile per-packet one-way delay: 2.255 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

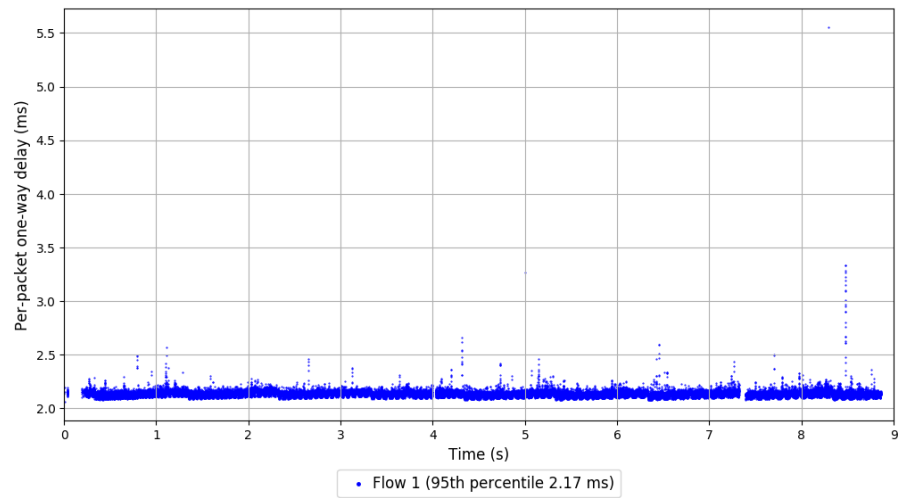
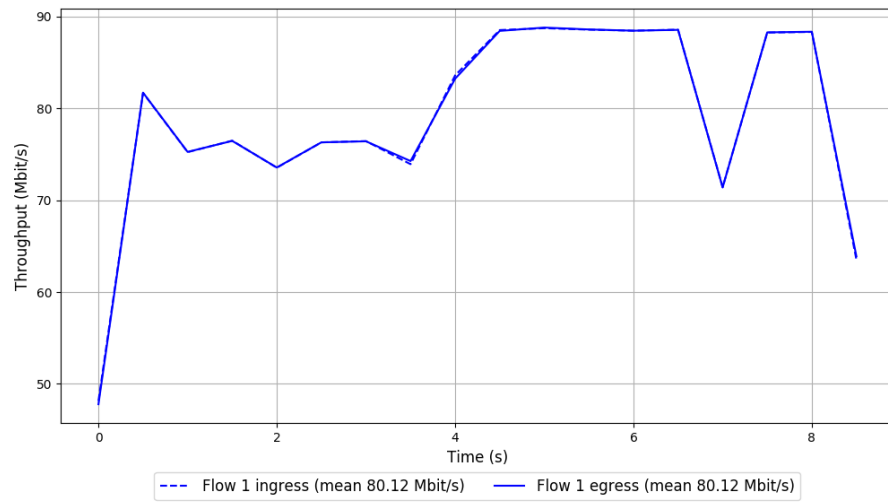
Start at: 2017-12-11 16:05:04

End at: 2017-12-11 16:05:34

Local clock offset: 0.926 ms

Remote clock offset: -0.343 ms

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-12-11 16:23:15

End at: 2017-12-11 16:23:45

Local clock offset: 1.107 ms

Remote clock offset: -0.272 ms

Below is generated by plot.py at 2017-12-11 19:23:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.58 Mbit/s

95th percentile per-packet one-way delay: 2.236 ms

Loss rate: 0.00%

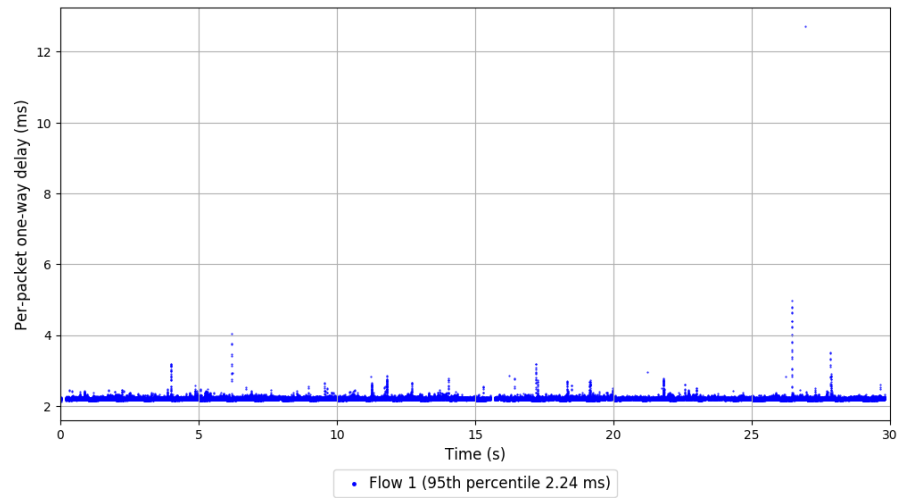
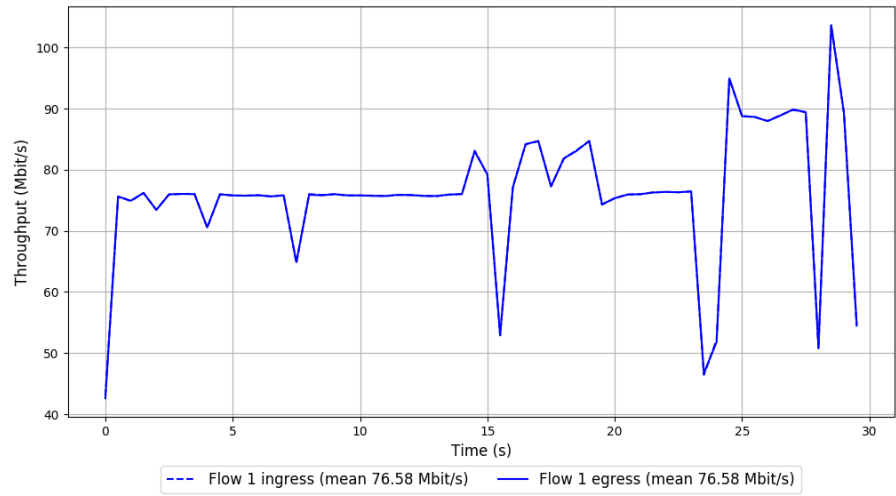
-- Flow 1:

Average throughput: 76.58 Mbit/s

95th percentile per-packet one-way delay: 2.236 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

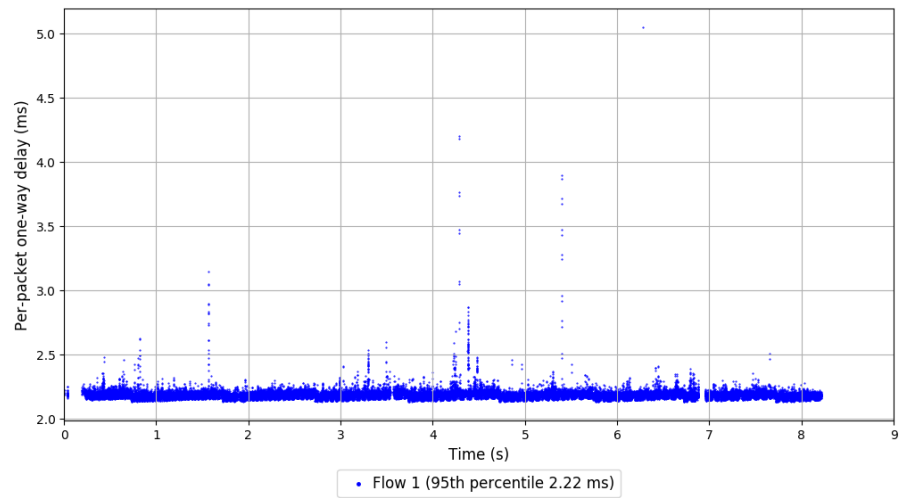
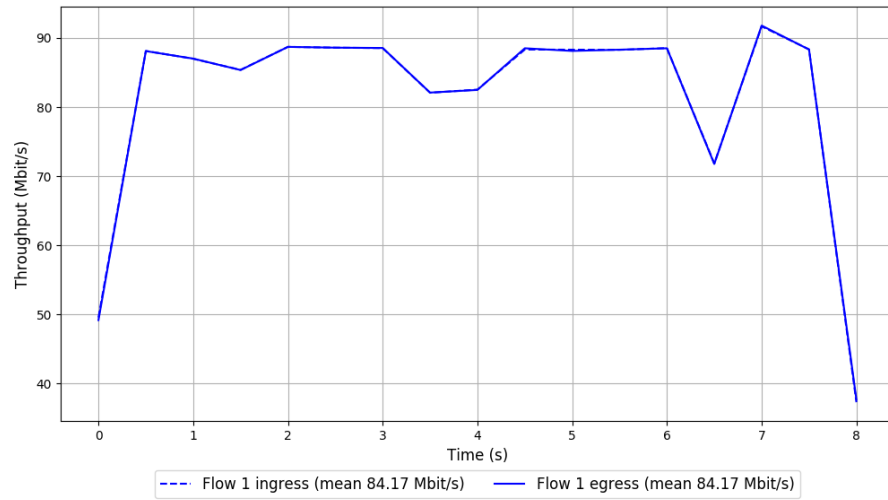
Start at: 2017-12-11 16:41:21

End at: 2017-12-11 16:41:51

Local clock offset: 1.151 ms

Remote clock offset: -0.231 ms

Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2017-12-11 13:59:18

End at: 2017-12-11 13:59:48

Local clock offset: -2.043 ms

Remote clock offset: 0.635 ms

Below is generated by plot.py at 2017-12-11 19:23:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.297 ms

Loss rate: 0.00%

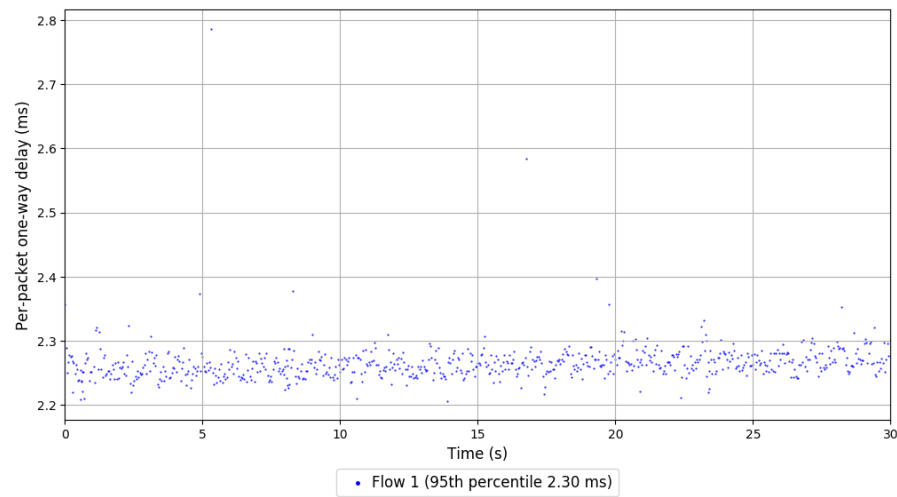
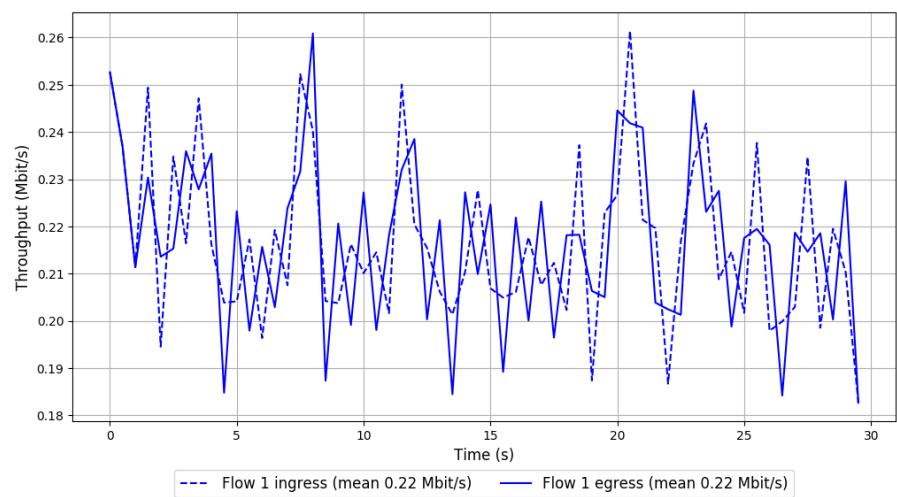
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.297 ms

Loss rate: 0.00%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2017-12-11 14:17:28

End at: 2017-12-11 14:17:58

Local clock offset: -1.694 ms

Remote clock offset: 0.249 ms

Below is generated by plot.py at 2017-12-11 19:23:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.320 ms

Loss rate: 0.00%

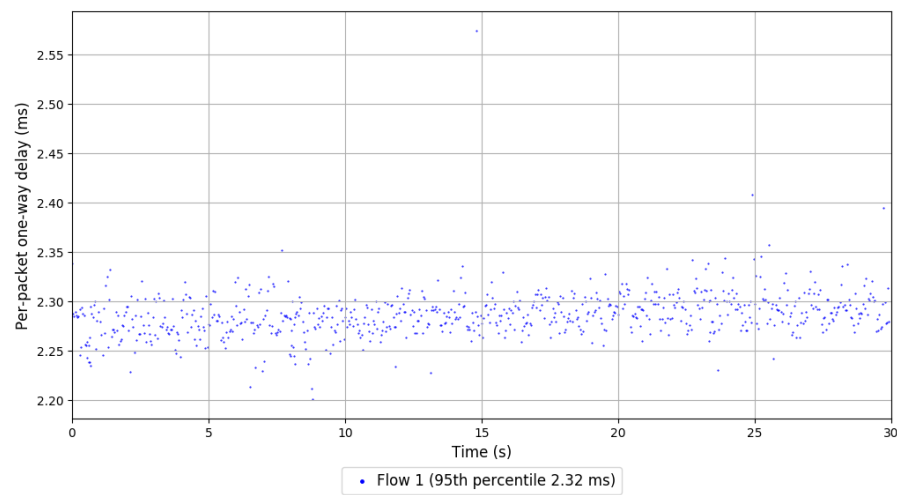
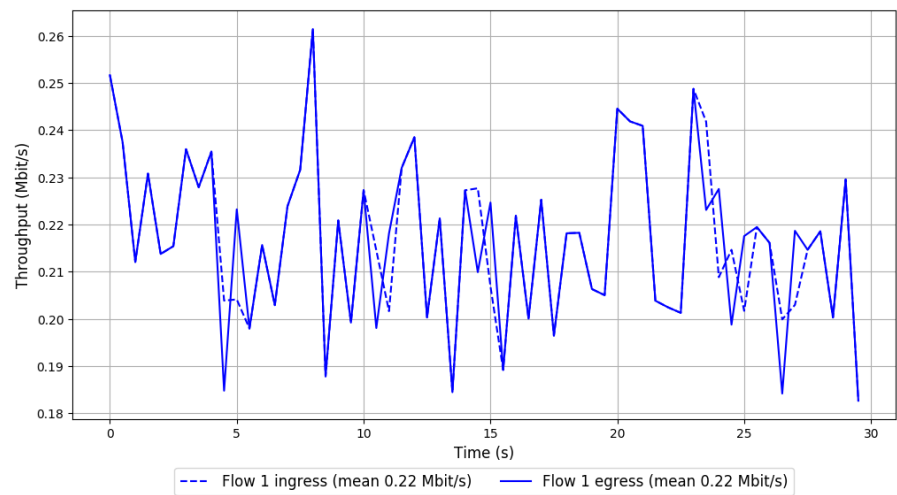
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.320 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-12-11 14:35:35

End at: 2017-12-11 14:36:05

Local clock offset: -1.06 ms

Remote clock offset: 0.295 ms

Below is generated by plot.py at 2017-12-11 19:23:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.302 ms

Loss rate: 0.00%

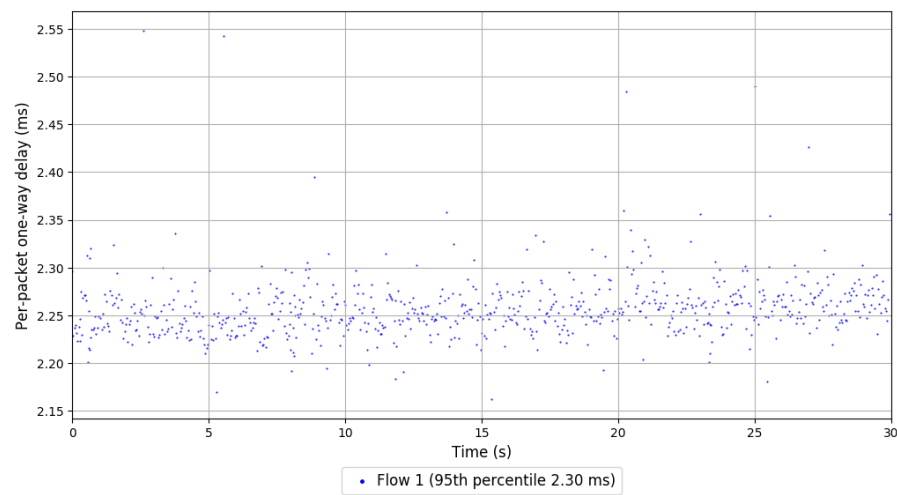
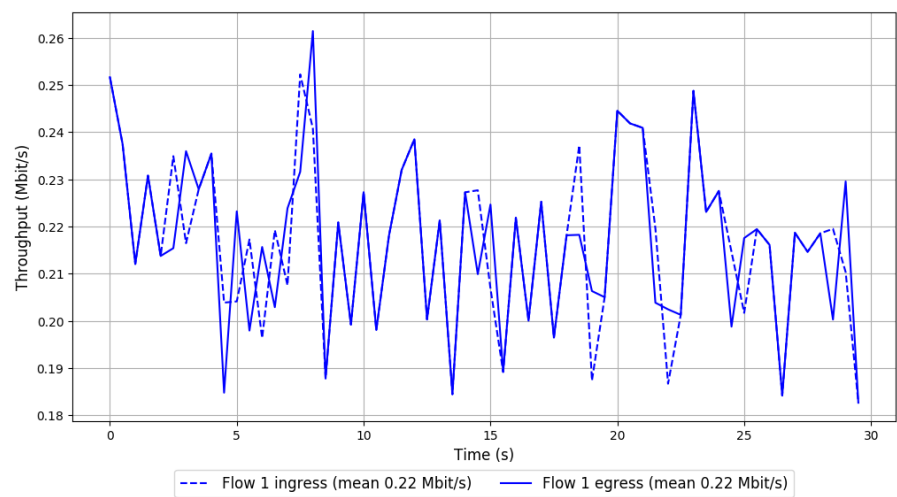
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.302 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-12-11 14:53:47

End at: 2017-12-11 14:54:17

Local clock offset: -0.637 ms

Remote clock offset: 0.232 ms

Below is generated by plot.py at 2017-12-11 19:23:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.400 ms

Loss rate: 0.00%

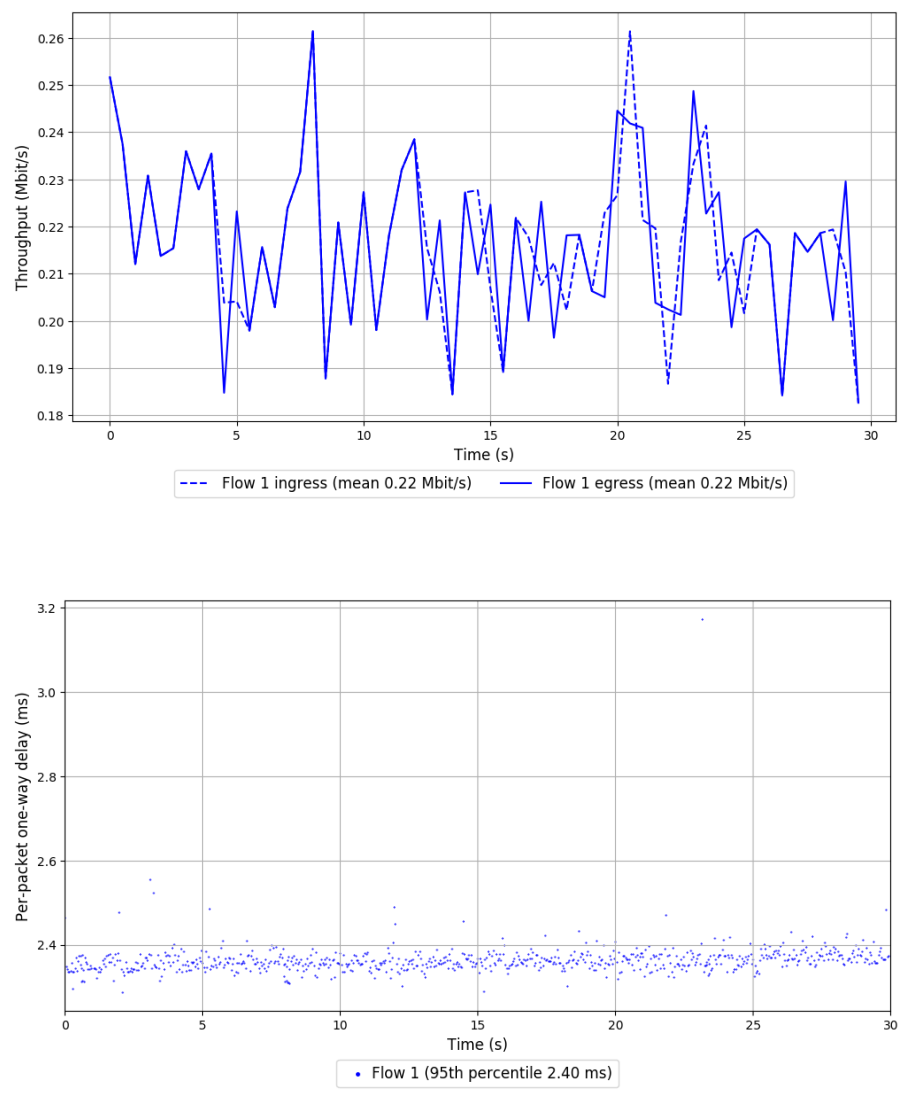
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.400 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

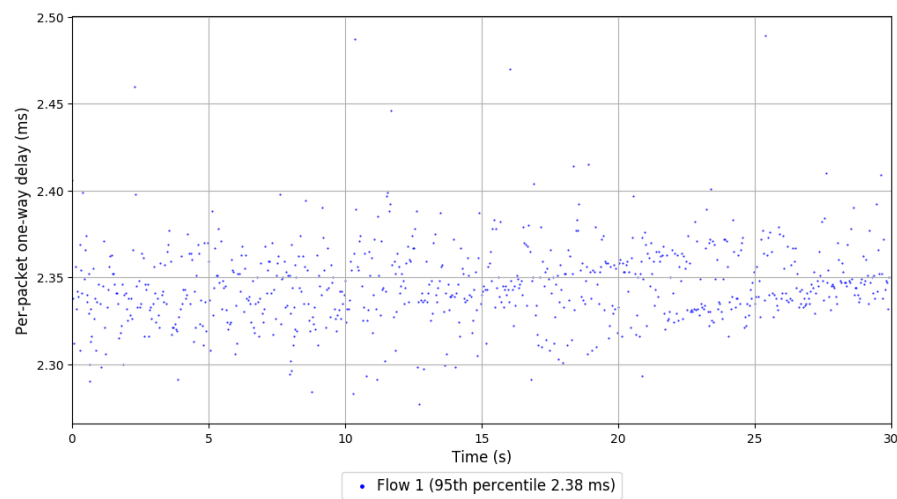
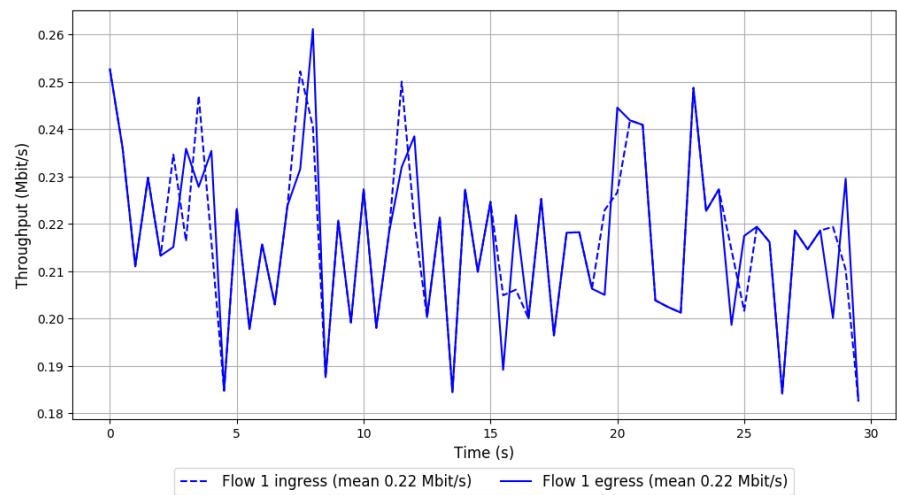


Run 5: Statistics of SCReAM

Start at: 2017-12-11 15:11:56
End at: 2017-12-11 15:12:26
Local clock offset: -0.147 ms
Remote clock offset: -0.041 ms

Below is generated by plot.py at 2017-12-11 19:23:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.382 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.382 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

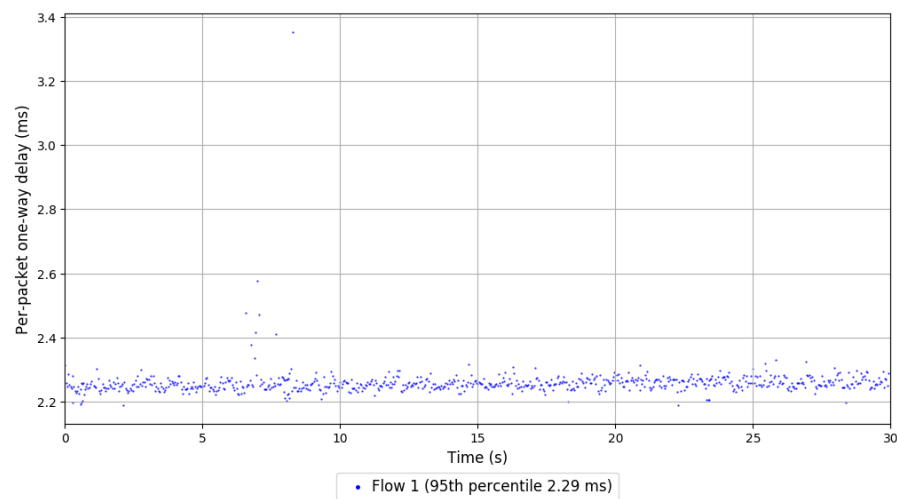
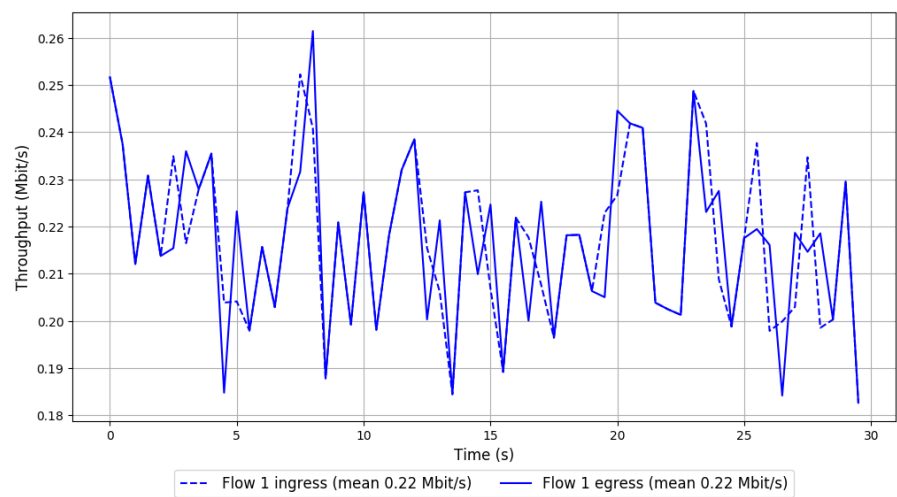


Run 6: Statistics of SCReAM

Start at: 2017-12-11 15:29:57
End at: 2017-12-11 15:30:27
Local clock offset: 0.377 ms
Remote clock offset: -0.203 ms

Below is generated by plot.py at 2017-12-11 19:23:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.291 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.291 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

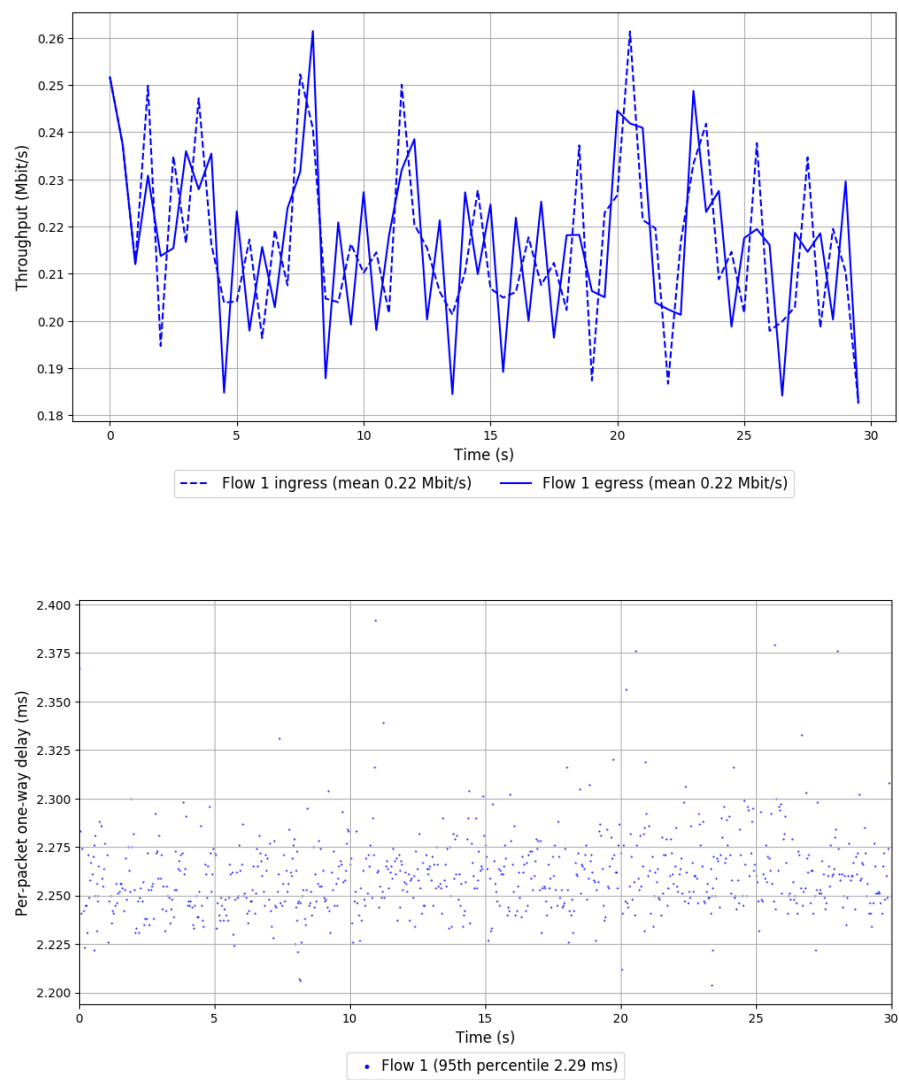


Run 7: Statistics of SCReAM

Start at: 2017-12-11 15:48:06
End at: 2017-12-11 15:48:36
Local clock offset: 0.732 ms
Remote clock offset: -0.313 ms

Below is generated by plot.py at 2017-12-11 19:23:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.294 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.294 ms
Loss rate: 0.00%

Run 7: Report of SCSReAM — Data Link

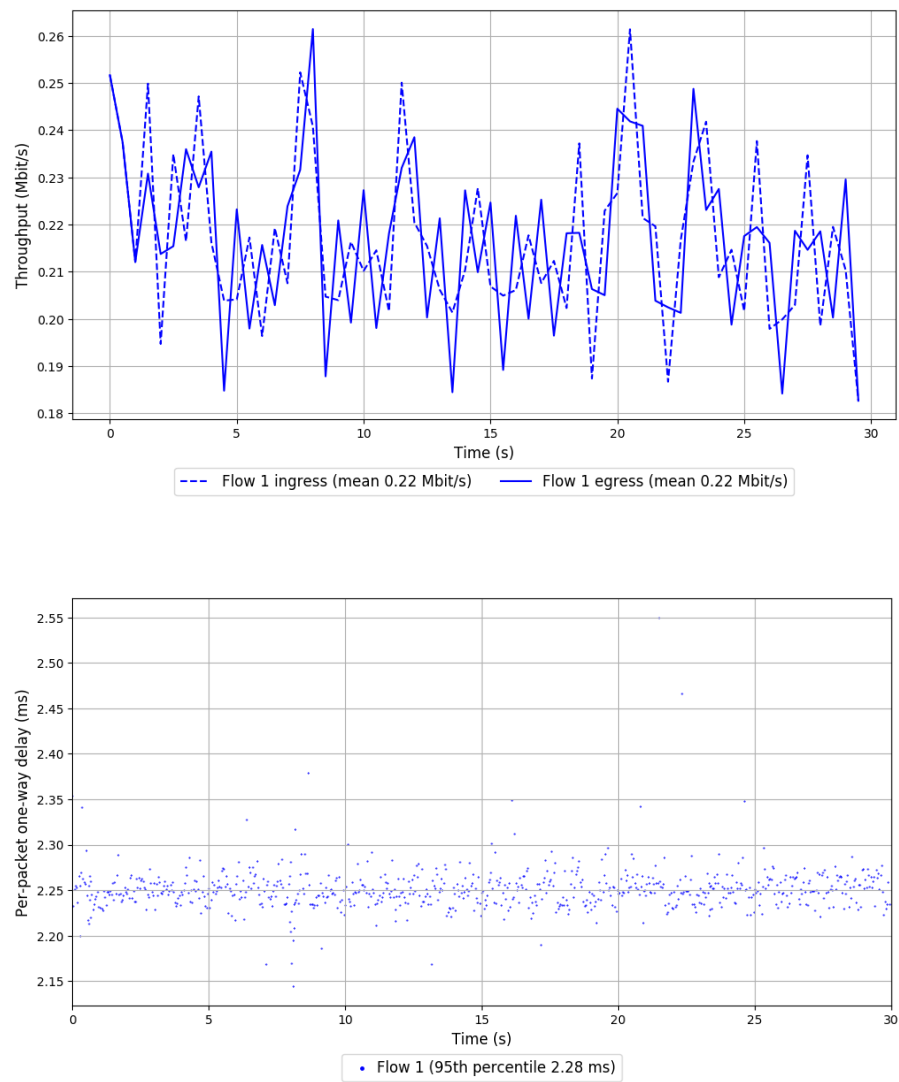


Run 8: Statistics of SCReAM

Start at: 2017-12-11 16:06:09
End at: 2017-12-11 16:06:39
Local clock offset: 0.958 ms
Remote clock offset: -0.267 ms

Below is generated by plot.py at 2017-12-11 19:23:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.282 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.282 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

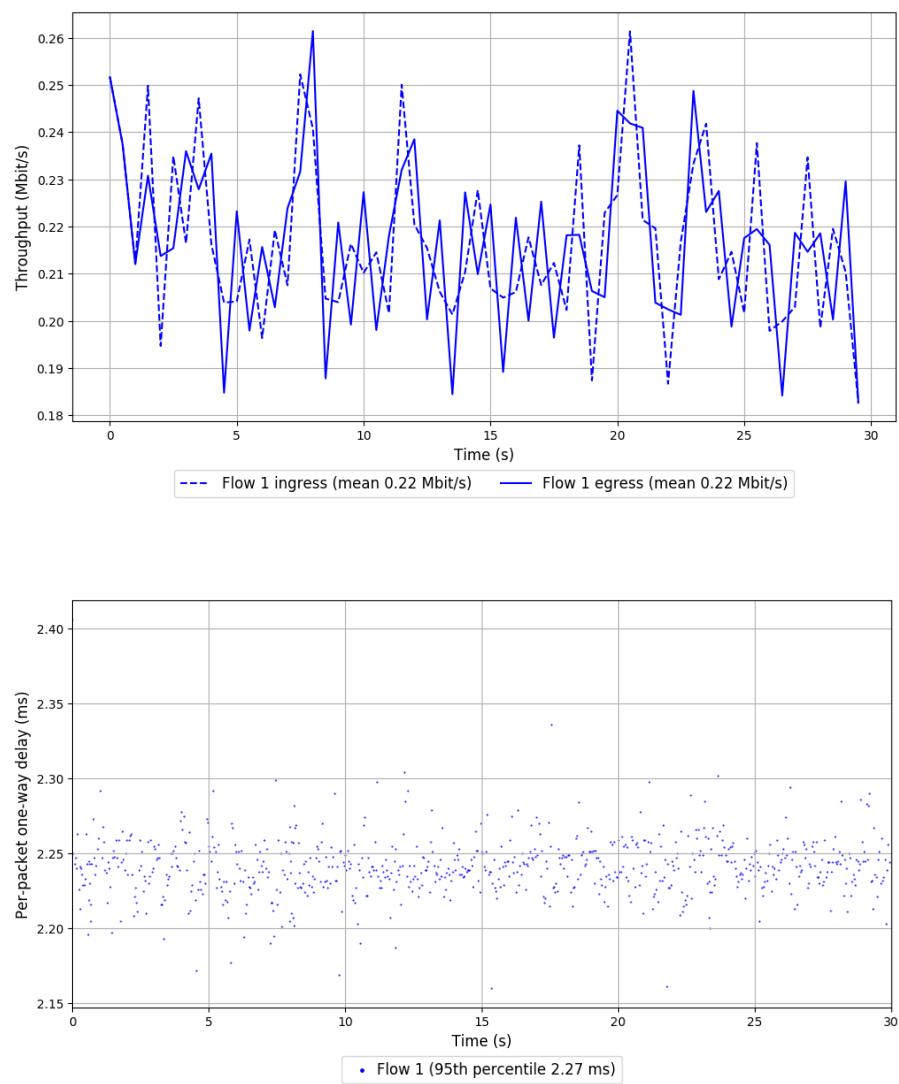


Run 9: Statistics of SCReAM

Start at: 2017-12-11 16:24:22
End at: 2017-12-11 16:24:52
Local clock offset: 1.132 ms
Remote clock offset: -0.277 ms

Below is generated by plot.py at 2017-12-11 19:23:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.270 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.270 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-12-11 16:42:25

End at: 2017-12-11 16:42:55

Local clock offset: 1.175 ms

Remote clock offset: -0.246 ms

Below is generated by plot.py at 2017-12-11 19:23:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.247 ms

Loss rate: 0.00%

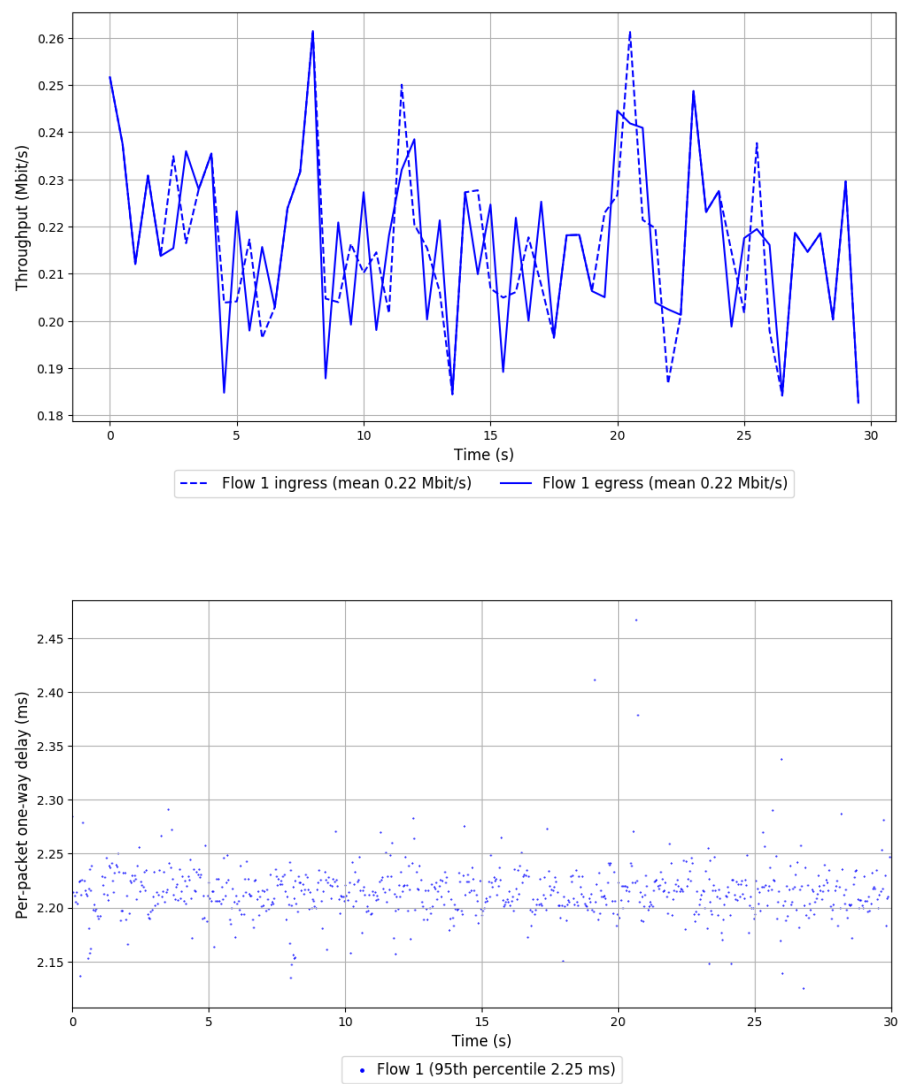
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.247 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2017-12-11 14:08:26

End at: 2017-12-11 14:08:56

Local clock offset: -2.027 ms

Remote clock offset: 0.354 ms

Below is generated by plot.py at 2017-12-11 19:23:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.49 Mbit/s

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

Loss rate: 0.00%

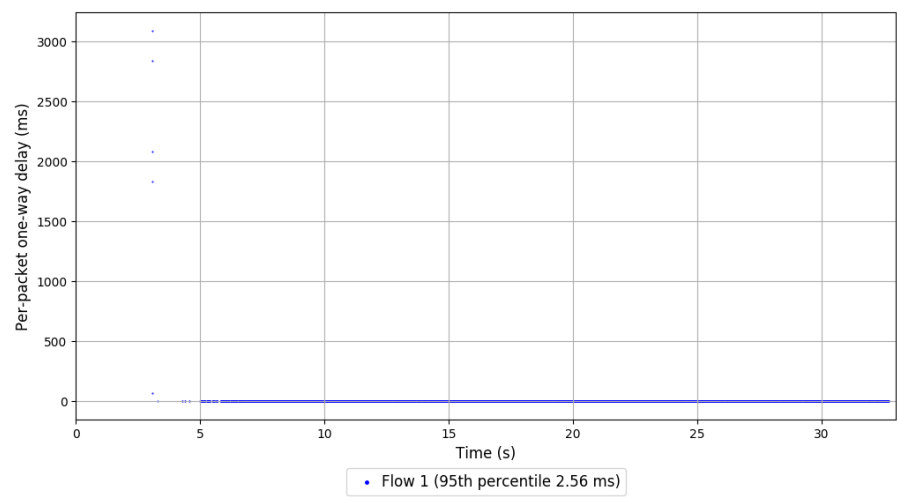
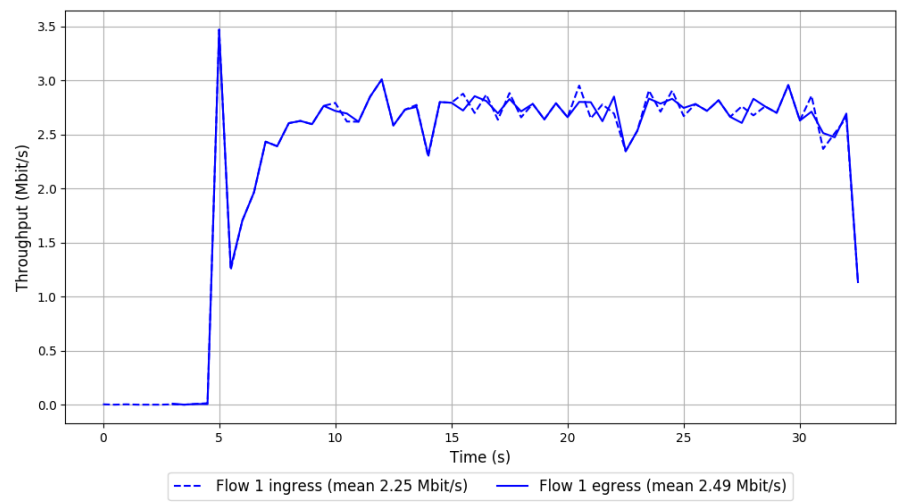
-- Flow 1:

Average throughput: 2.49 Mbit/s

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

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-12-11 14:26:37

End at: 2017-12-11 14:27:07

Local clock offset: -1.341 ms

Remote clock offset: 0.271 ms

Below is generated by plot.py at 2017-12-11 19:23:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 2.614 ms

Loss rate: 0.00%

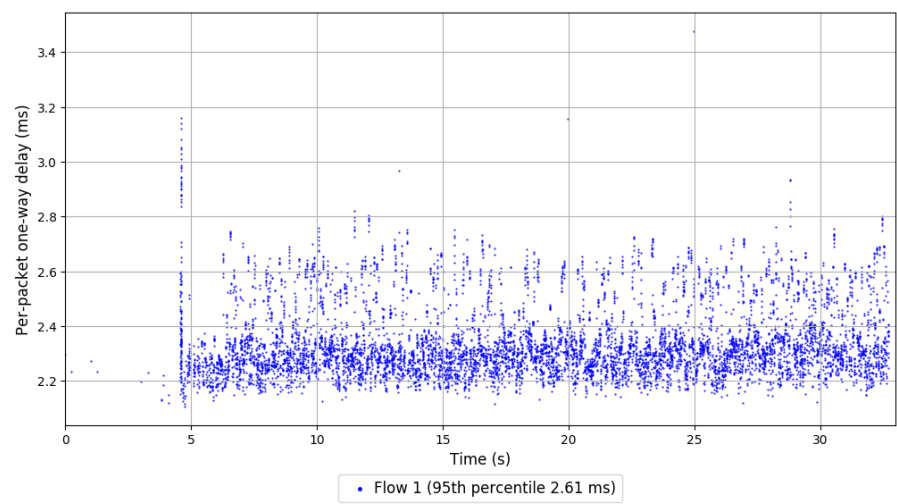
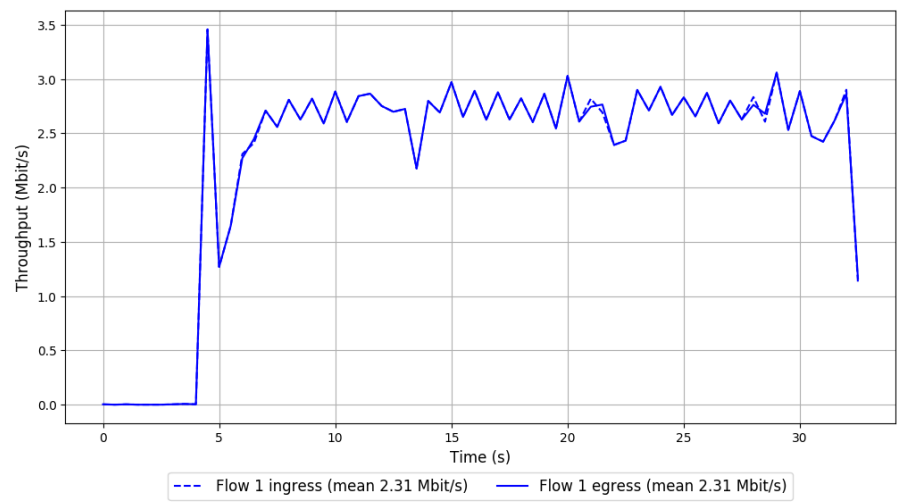
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 2.614 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-12-11 14:44:49

End at: 2017-12-11 14:45:19

Local clock offset: -0.8 ms

Remote clock offset: 0.308 ms

Below is generated by plot.py at 2017-12-11 19:23:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 2.602 ms

Loss rate: 0.00%

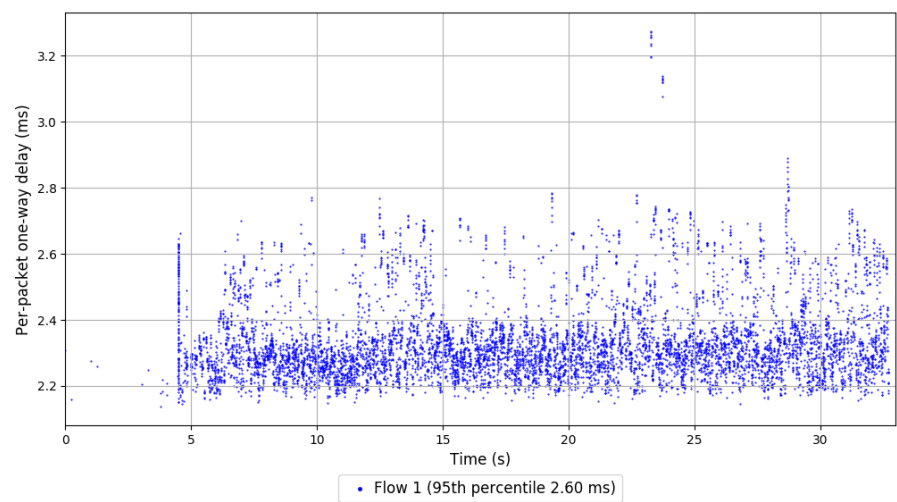
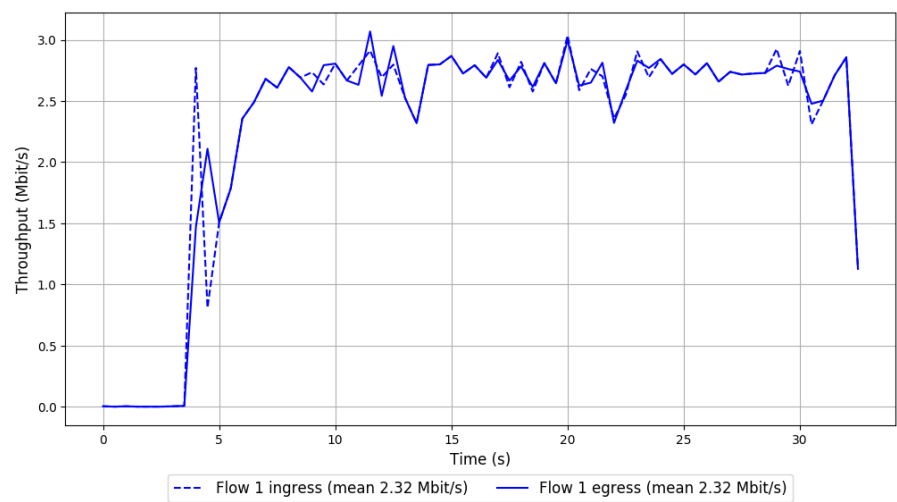
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 2.602 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-12-11 15:02:50

End at: 2017-12-11 15:03:20

Local clock offset: -0.276 ms

Remote clock offset: 0.055 ms

Below is generated by plot.py at 2017-12-11 19:23:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 2.600 ms

Loss rate: 0.00%

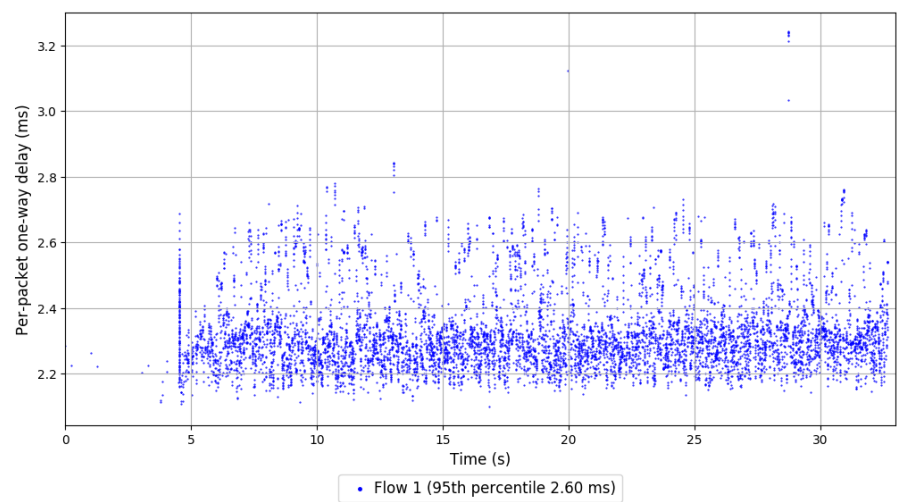
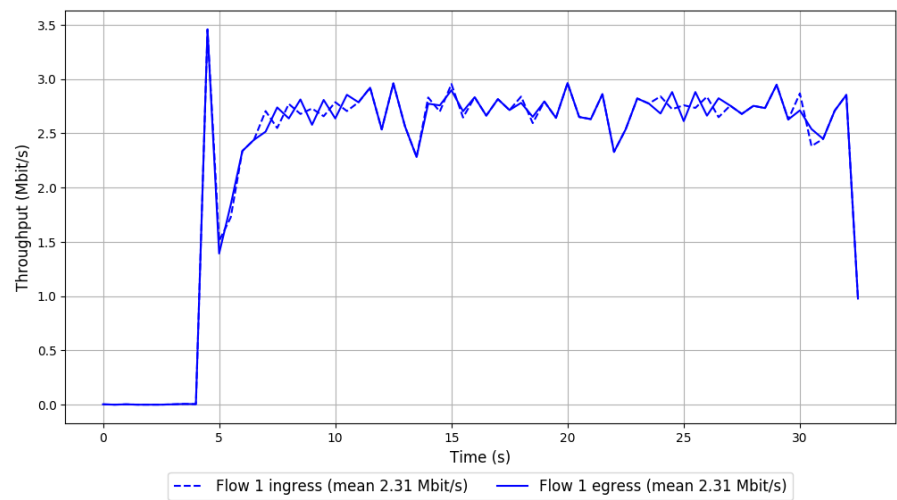
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 2.600 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

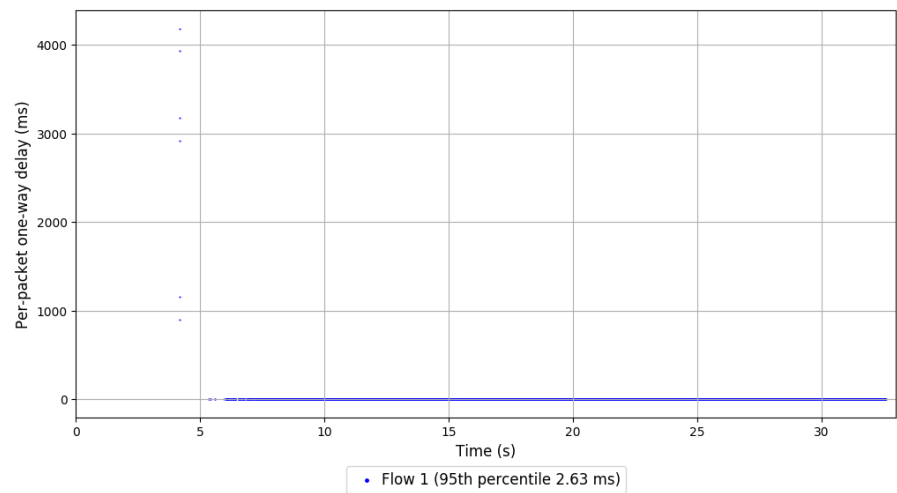
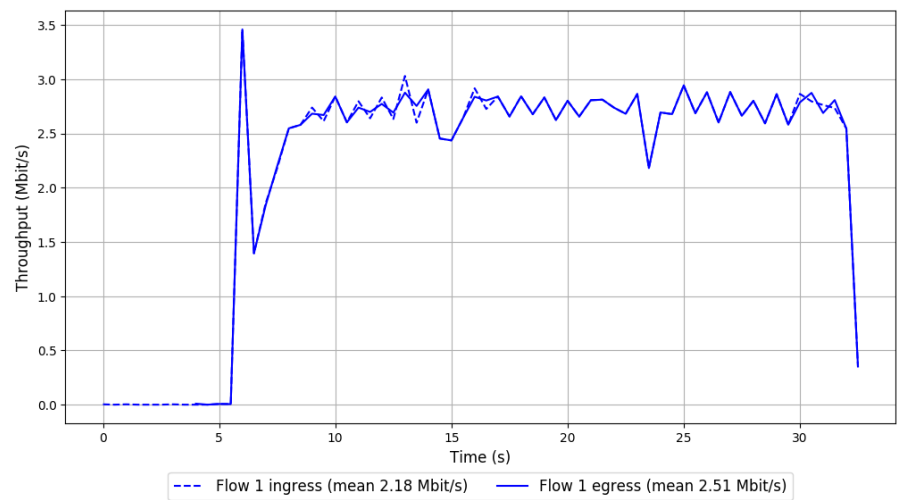


Run 5: Statistics of WebRTC media

Start at: 2017-12-11 15:20:57
End at: 2017-12-11 15:21:27
Local clock offset: 0.12 ms
Remote clock offset: -0.133 ms

Below is generated by plot.py at 2017-12-11 19:23:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.51 Mbit/s
95th percentile per-packet one-way delay: 2.631 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.51 Mbit/s
95th percentile per-packet one-way delay: 2.631 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

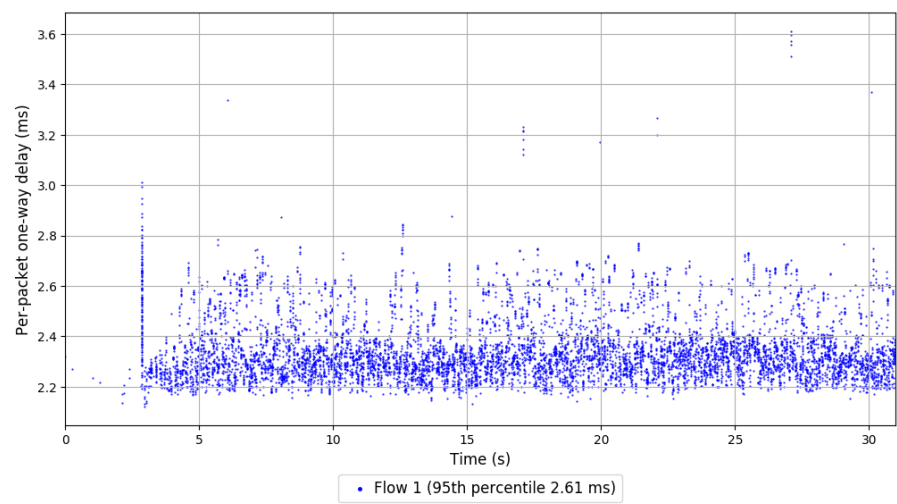
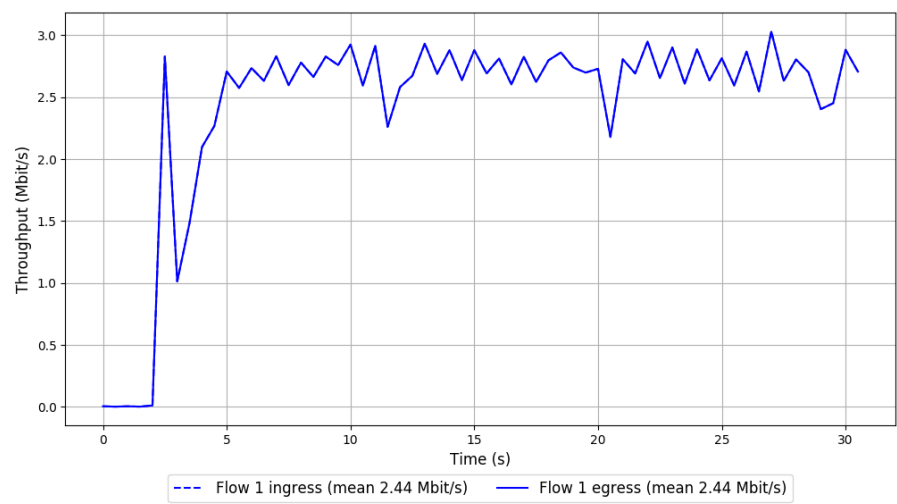


Run 6: Statistics of WebRTC media

Start at: 2017-12-11 15:39:07
End at: 2017-12-11 15:39:37
Local clock offset: 0.596 ms
Remote clock offset: -0.272 ms

Below is generated by plot.py at 2017-12-11 19:23:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.44 Mbit/s
95th percentile per-packet one-way delay: 2.609 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.44 Mbit/s
95th percentile per-packet one-way delay: 2.609 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

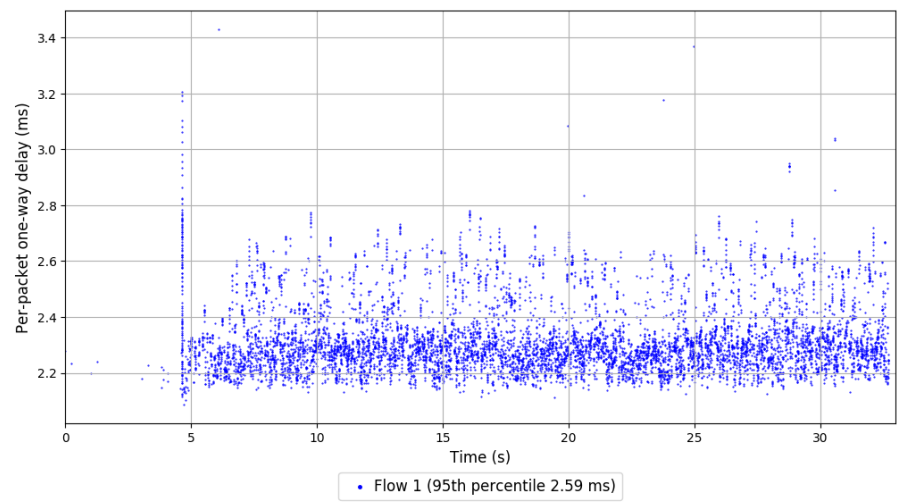
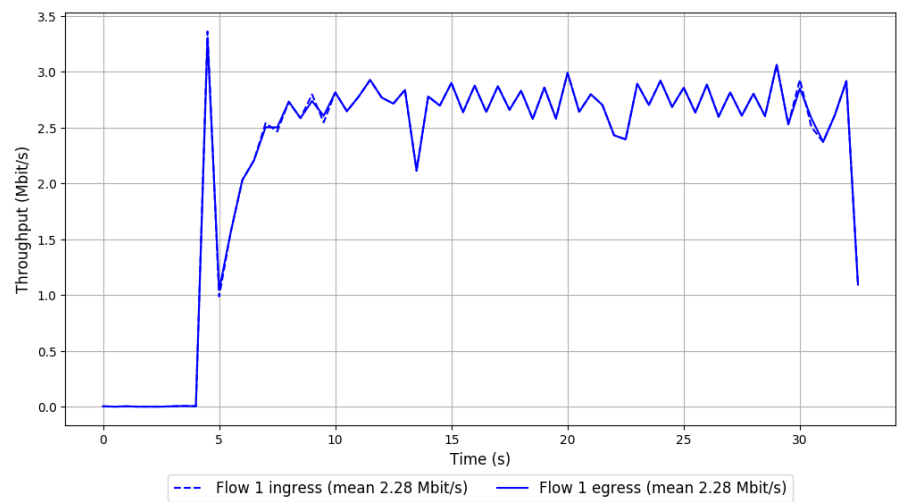


Run 7: Statistics of WebRTC media

Start at: 2017-12-11 15:57:13
End at: 2017-12-11 15:57:43
Local clock offset: 0.871 ms
Remote clock offset: -0.327 ms

Below is generated by plot.py at 2017-12-11 19:23:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 2.594 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 2.594 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

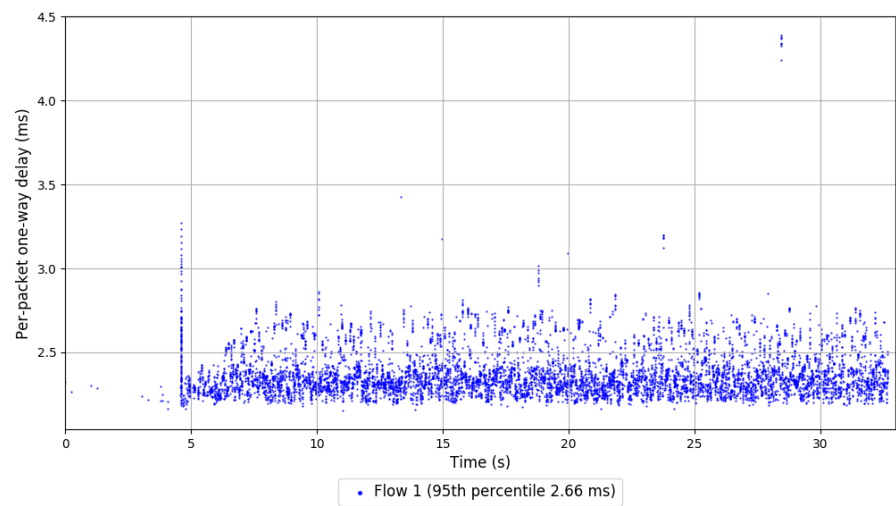
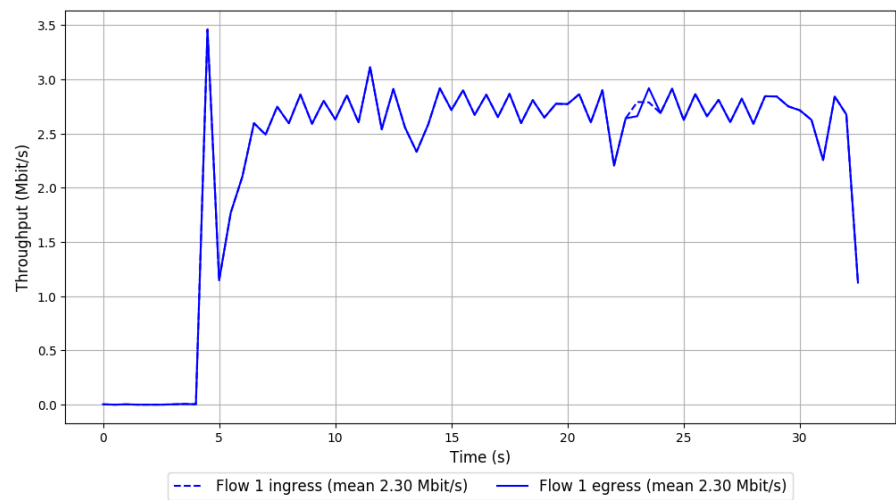


Run 8: Statistics of WebRTC media

Start at: 2017-12-11 16:15:16
End at: 2017-12-11 16:15:46
Local clock offset: 1.009 ms
Remote clock offset: -0.259 ms

Below is generated by plot.py at 2017-12-11 19:23:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 2.661 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 2.661 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

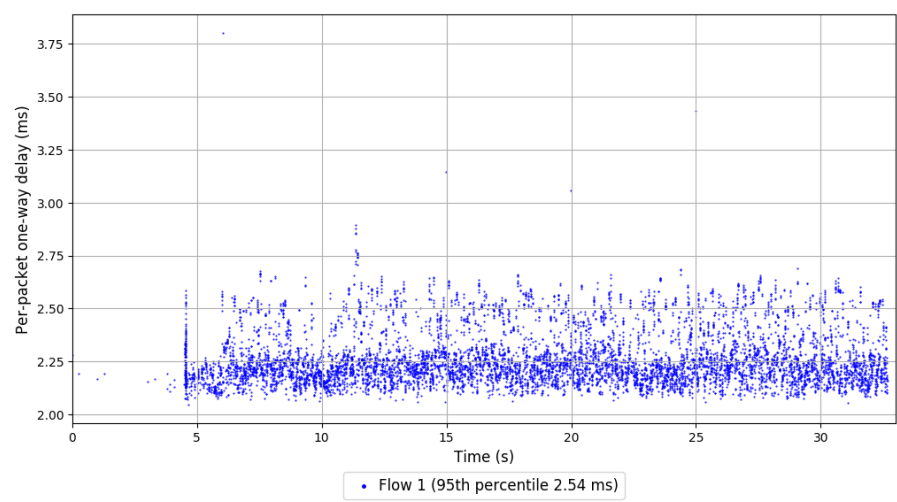
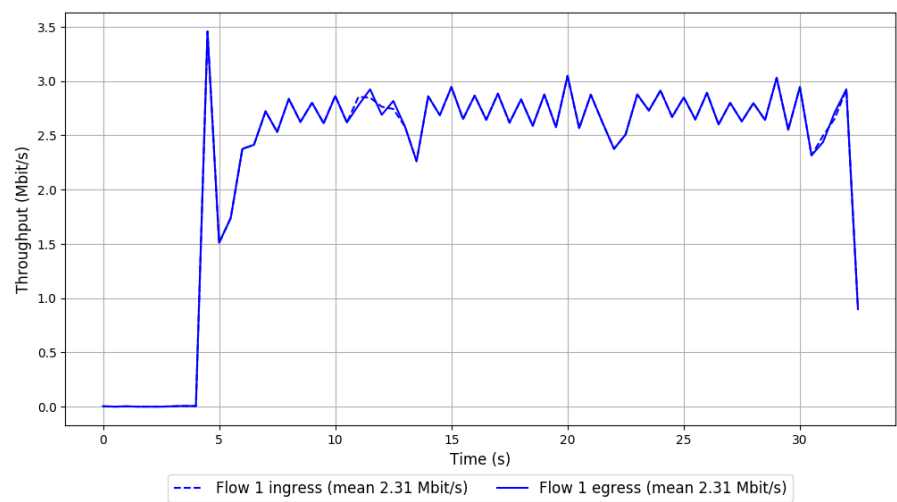


Run 9: Statistics of WebRTC media

Start at: 2017-12-11 16:33:29
End at: 2017-12-11 16:33:59
Local clock offset: 1.207 ms
Remote clock offset: -0.317 ms

Below is generated by plot.py at 2017-12-11 19:23:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 2.536 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 2.536 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-12-11 16:51:32

End at: 2017-12-11 16:52:02

Local clock offset: 1.145 ms

Remote clock offset: -0.25 ms

Below is generated by plot.py at 2017-12-11 19:23:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 2.608 ms

Loss rate: 0.00%

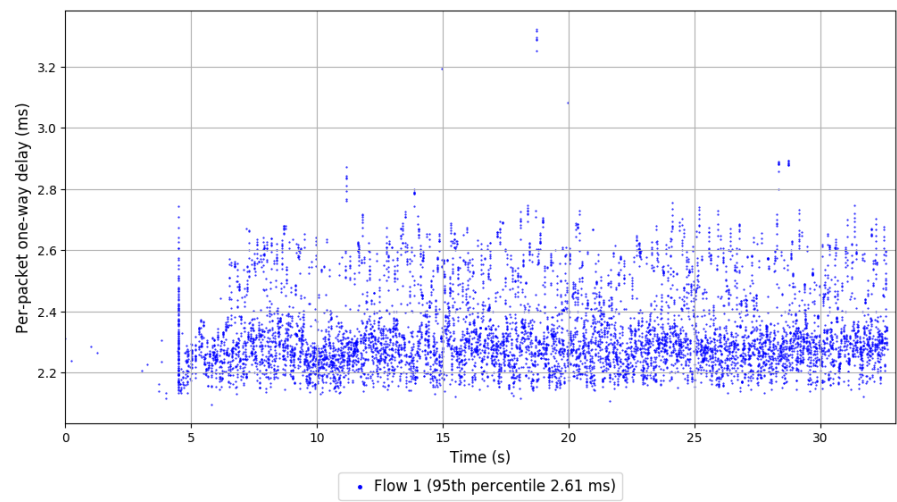
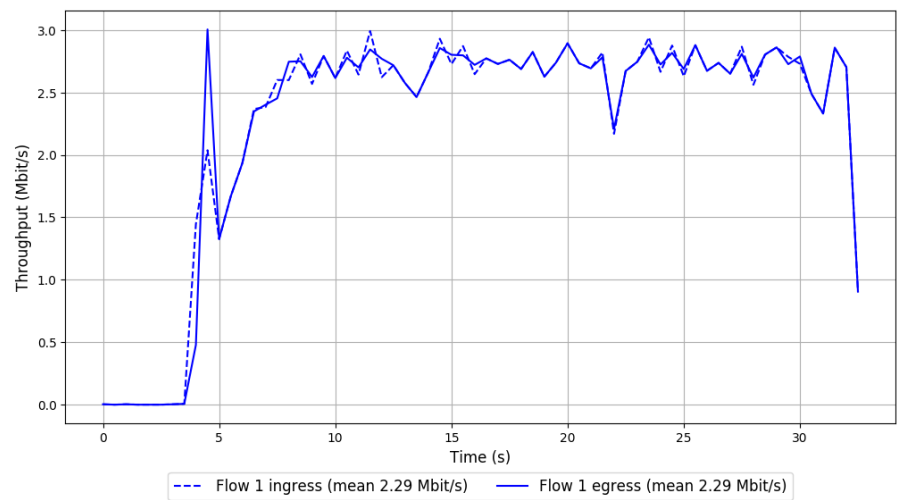
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 2.608 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-12-11 14:00:22

End at: 2017-12-11 14:00:52

Local clock offset: -2.032 ms

Remote clock offset: 0.616 ms

Below is generated by plot.py at 2017-12-11 19:23:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.23 Mbit/s

95th percentile per-packet one-way delay: 3.044 ms

Loss rate: 0.00%

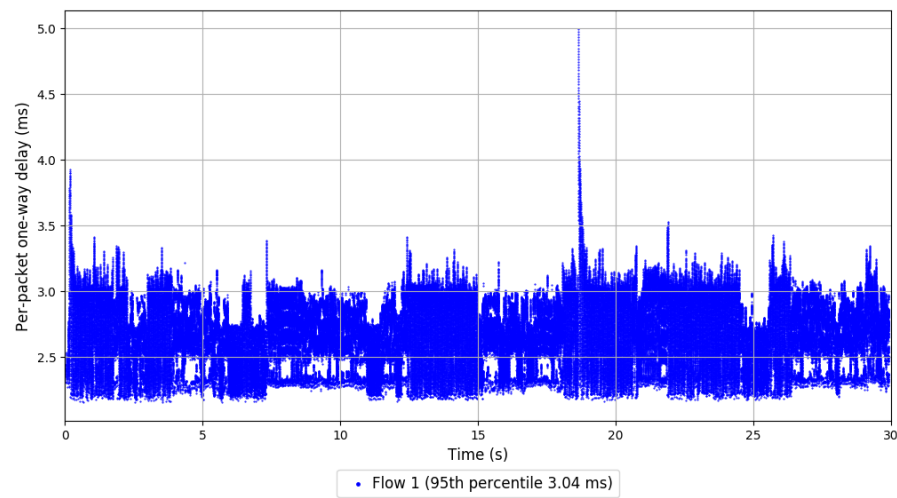
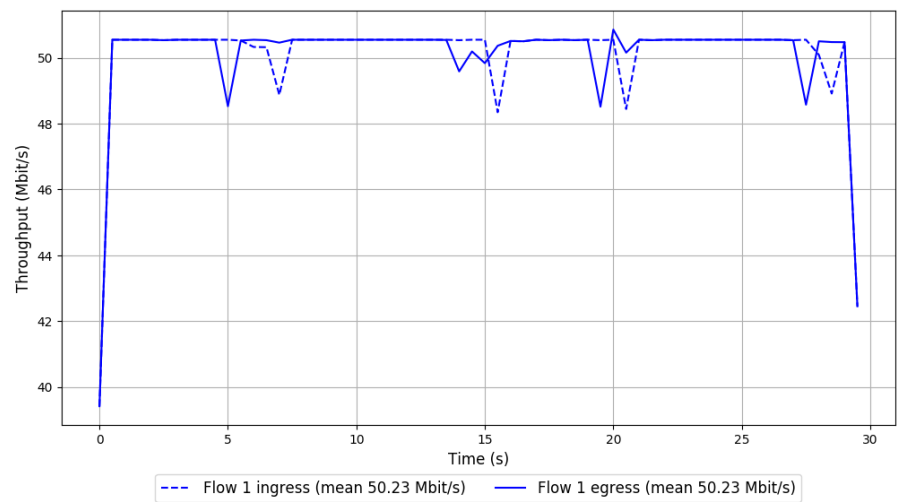
-- Flow 1:

Average throughput: 50.23 Mbit/s

95th percentile per-packet one-way delay: 3.044 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

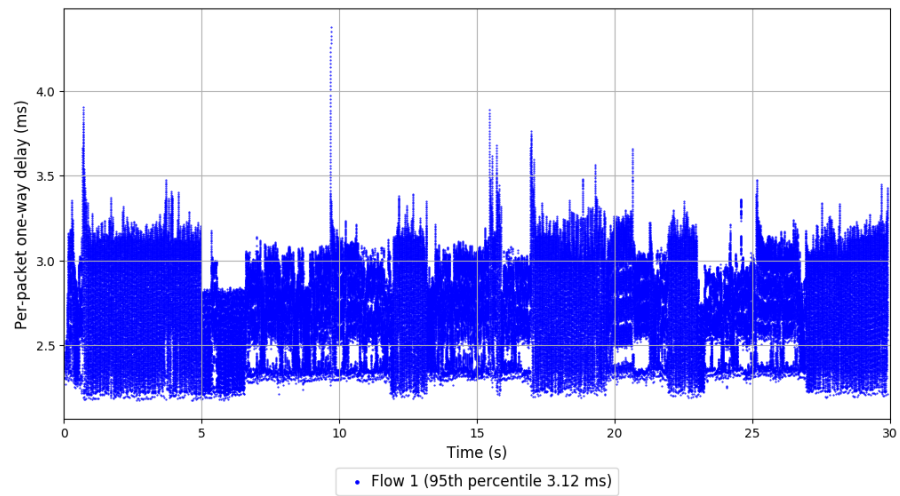
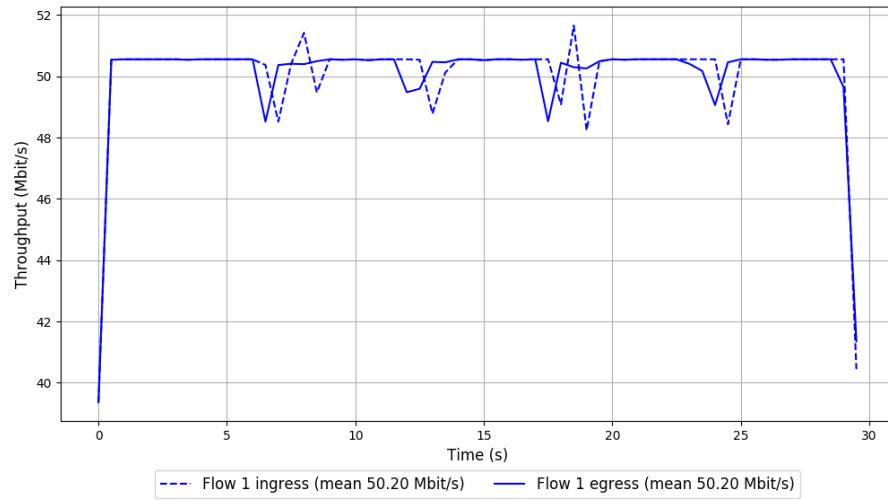


Run 2: Statistics of Sprout

Start at: 2017-12-11 14:18:32
End at: 2017-12-11 14:19:02
Local clock offset: -1.666 ms
Remote clock offset: 0.236 ms

Below is generated by plot.py at 2017-12-11 19:23:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.20 Mbit/s
95th percentile per-packet one-way delay: 3.120 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.20 Mbit/s
95th percentile per-packet one-way delay: 3.120 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

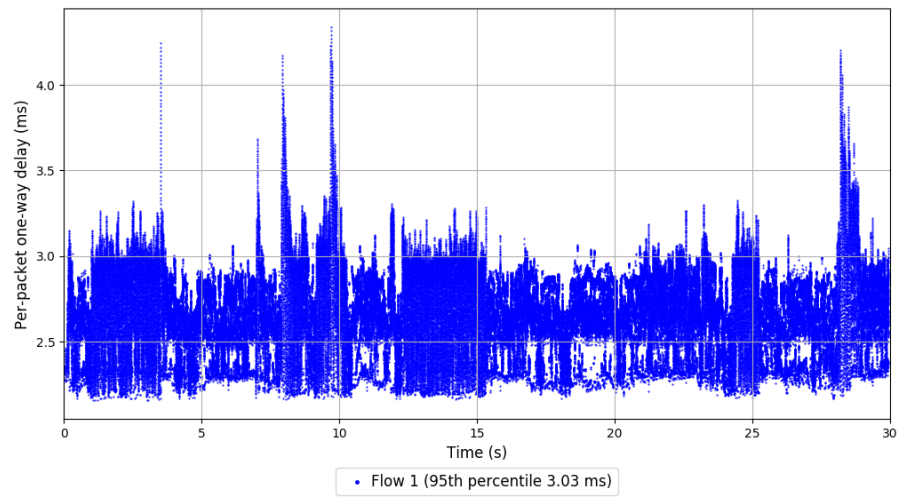
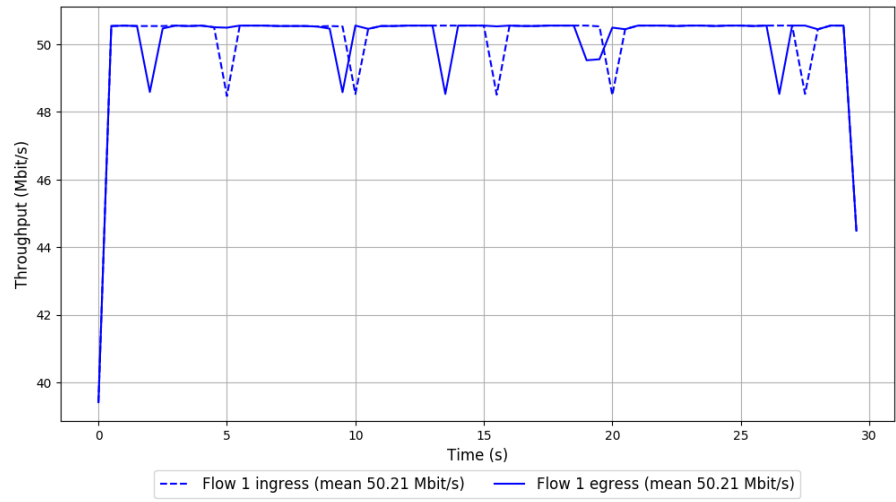


Run 3: Statistics of Sprout

Start at: 2017-12-11 14:36:39
End at: 2017-12-11 14:37:09
Local clock offset: -1.041 ms
Remote clock offset: 0.3 ms

Below is generated by plot.py at 2017-12-11 19:23:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.21 Mbit/s
95th percentile per-packet one-way delay: 3.026 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.21 Mbit/s
95th percentile per-packet one-way delay: 3.026 ms
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

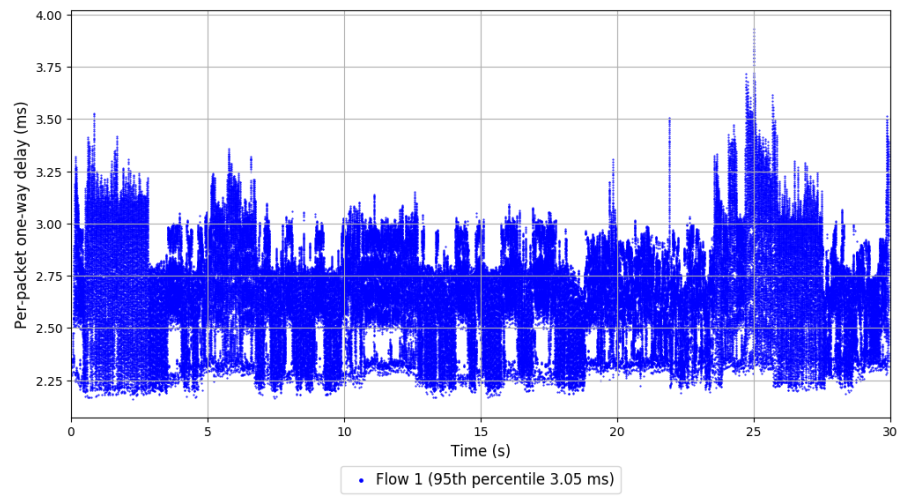
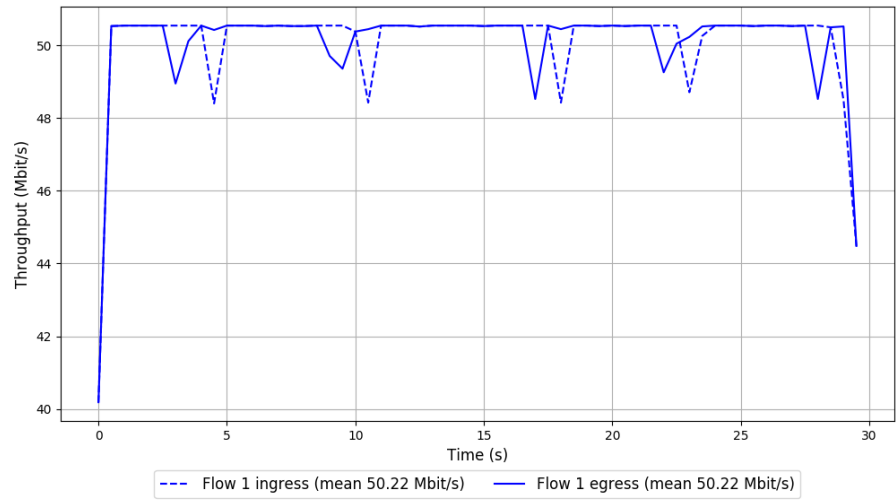


Run 4: Statistics of Sprout

Start at: 2017-12-11 14:54:50
End at: 2017-12-11 14:55:20
Local clock offset: -0.534 ms
Remote clock offset: 0.2 ms

Below is generated by plot.py at 2017-12-11 19:23:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.22 Mbit/s
95th percentile per-packet one-way delay: 3.049 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.22 Mbit/s
95th percentile per-packet one-way delay: 3.049 ms
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

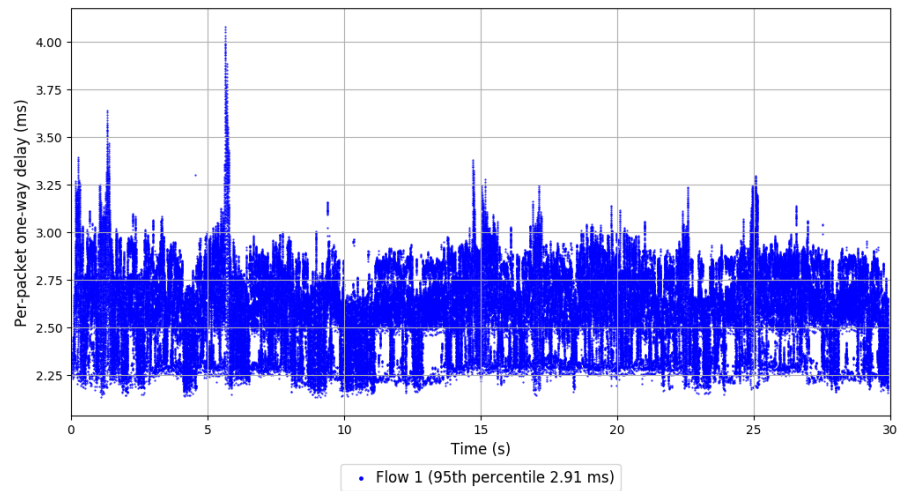
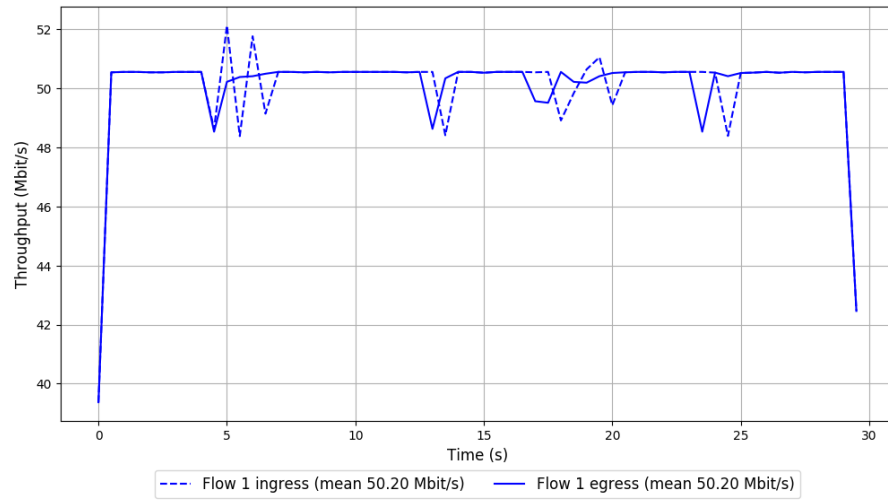


Run 5: Statistics of Sprout

Start at: 2017-12-11 15:13:00
End at: 2017-12-11 15:13:30
Local clock offset: -0.032 ms
Remote clock offset: -0.057 ms

Below is generated by plot.py at 2017-12-11 19:23:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.20 Mbit/s
95th percentile per-packet one-way delay: 2.909 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.20 Mbit/s
95th percentile per-packet one-way delay: 2.909 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

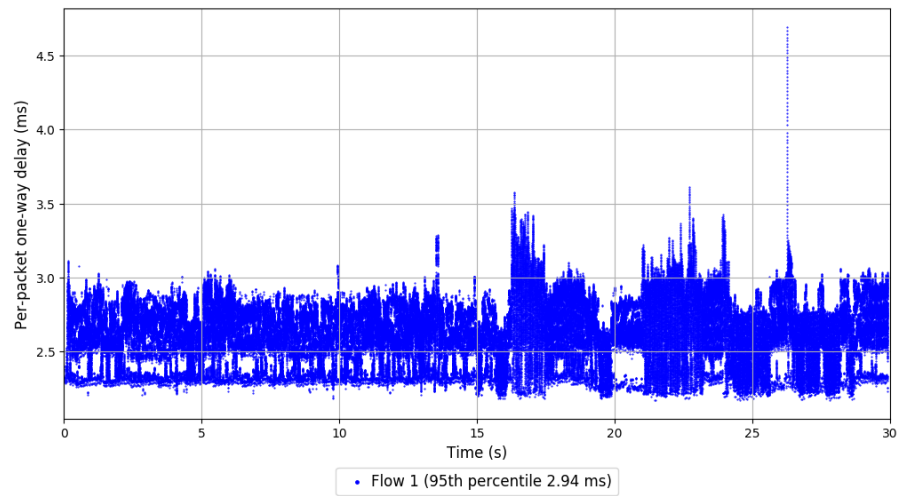
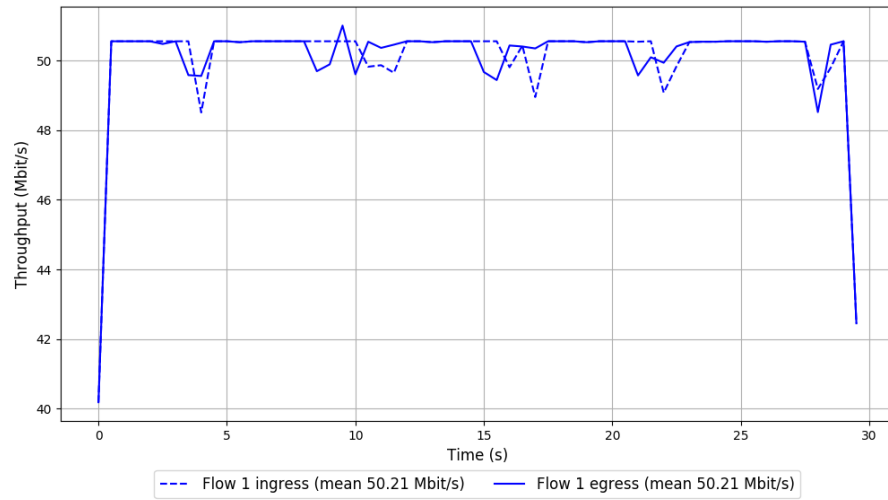


Run 6: Statistics of Sprout

Start at: 2017-12-11 15:31:00
End at: 2017-12-11 15:31:30
Local clock offset: 0.39 ms
Remote clock offset: -0.209 ms

Below is generated by plot.py at 2017-12-11 19:23:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.21 Mbit/s
95th percentile per-packet one-way delay: 2.944 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.21 Mbit/s
95th percentile per-packet one-way delay: 2.944 ms
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

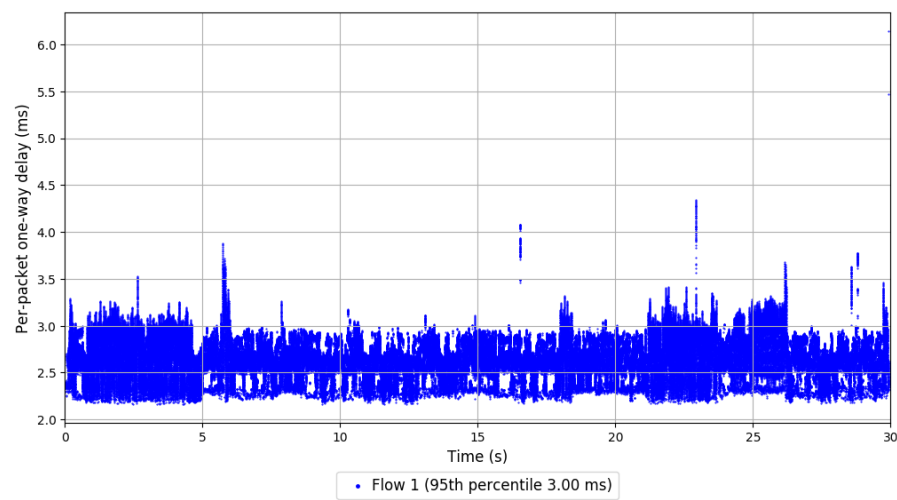
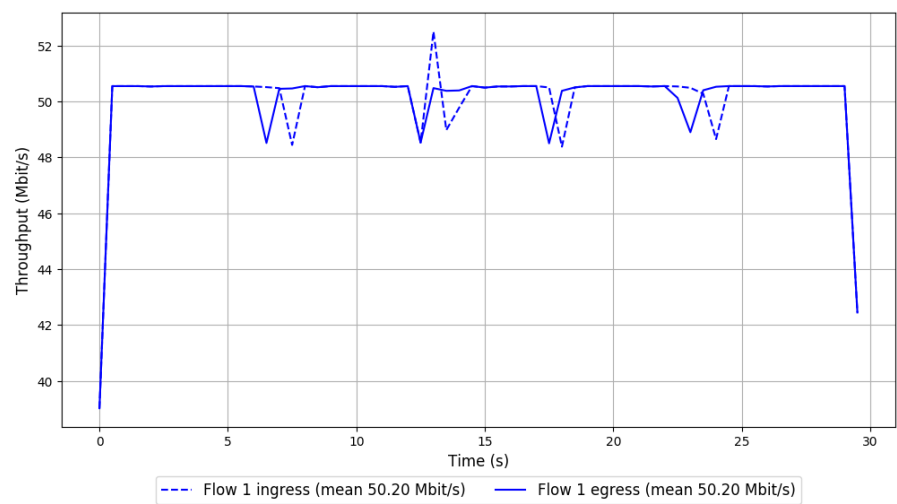


Run 7: Statistics of Sprout

Start at: 2017-12-11 15:49:10
End at: 2017-12-11 15:49:40
Local clock offset: 0.74 ms
Remote clock offset: -0.315 ms

Below is generated by plot.py at 2017-12-11 19:23:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.20 Mbit/s
95th percentile per-packet one-way delay: 3.001 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.20 Mbit/s
95th percentile per-packet one-way delay: 3.001 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

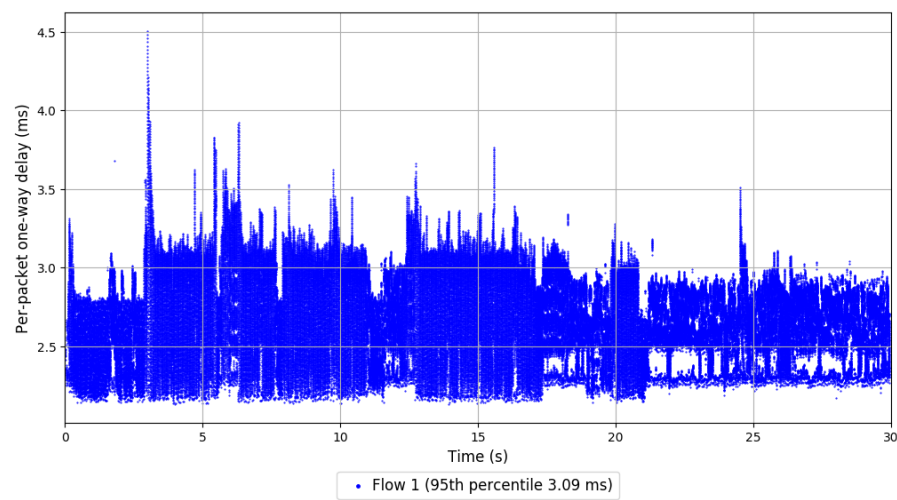
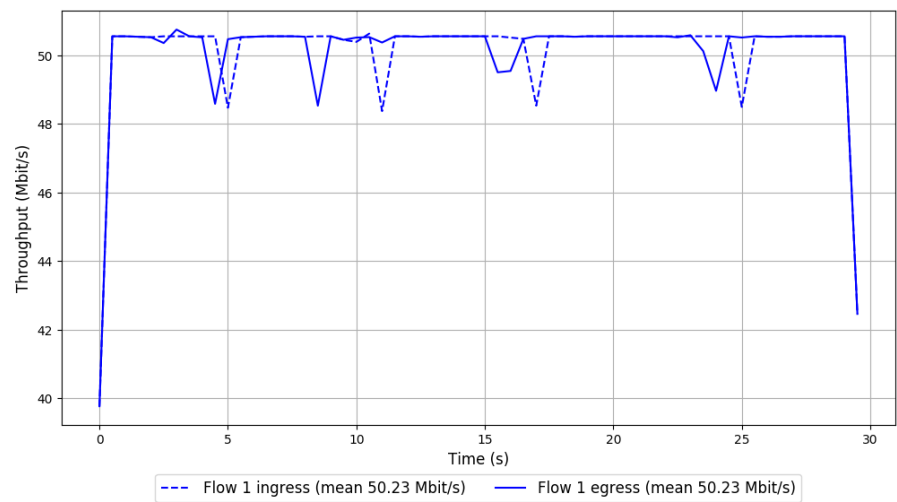


Run 8: Statistics of Sprout

Start at: 2017-12-11 16:07:13
End at: 2017-12-11 16:07:43
Local clock offset: 0.957 ms
Remote clock offset: -0.282 ms

Below is generated by plot.py at 2017-12-11 19:23:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.23 Mbit/s
95th percentile per-packet one-way delay: 3.092 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.23 Mbit/s
95th percentile per-packet one-way delay: 3.092 ms
Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

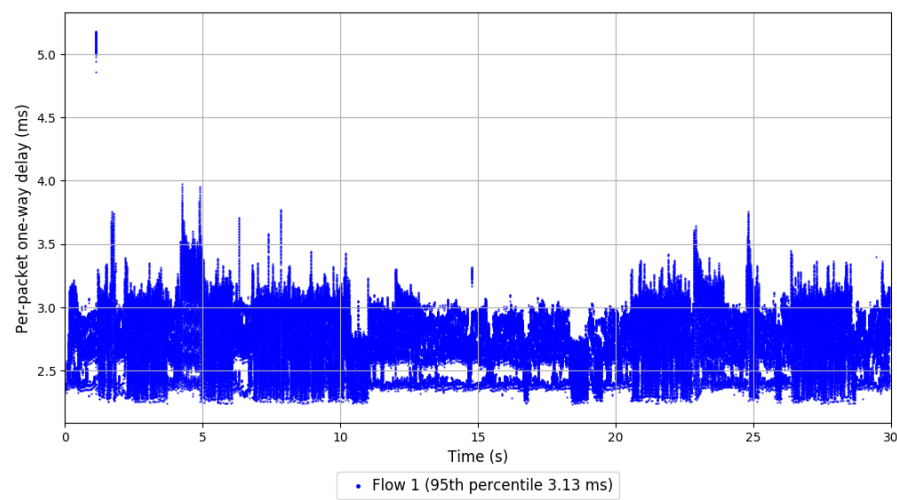
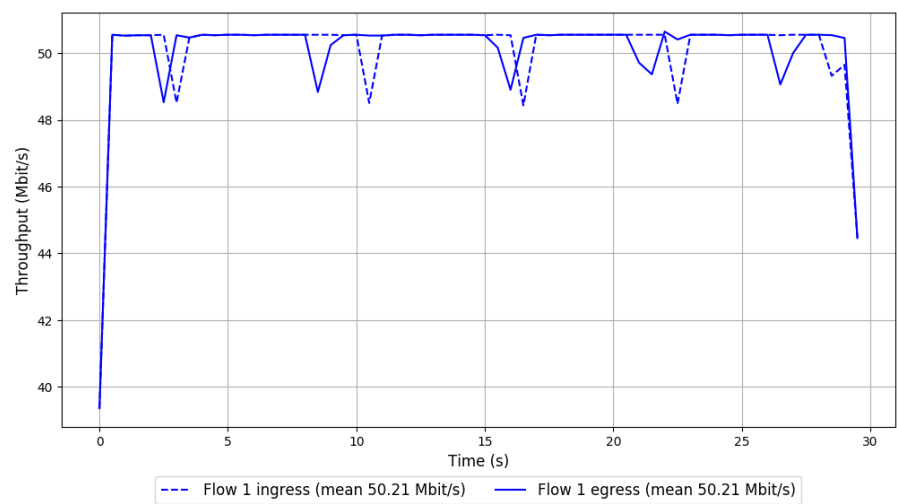


Run 9: Statistics of Sprout

Start at: 2017-12-11 16:25:25
End at: 2017-12-11 16:25:56
Local clock offset: 1.059 ms
Remote clock offset: -0.272 ms

Below is generated by plot.py at 2017-12-11 19:23:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.21 Mbit/s
95th percentile per-packet one-way delay: 3.128 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.21 Mbit/s
95th percentile per-packet one-way delay: 3.128 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-12-11 16:43:29

End at: 2017-12-11 16:43:59

Local clock offset: 1.158 ms

Remote clock offset: -0.235 ms

Below is generated by plot.py at 2017-12-11 19:23:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.21 Mbit/s

95th percentile per-packet one-way delay: 3.107 ms

Loss rate: 0.00%

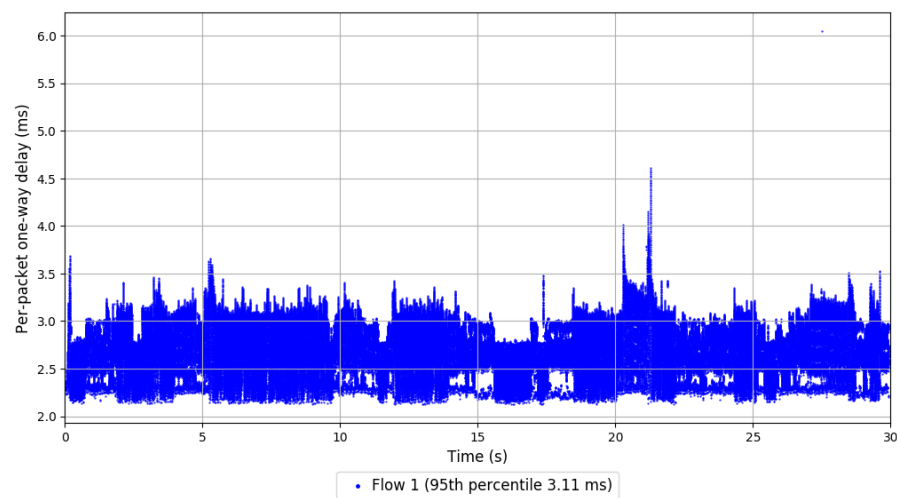
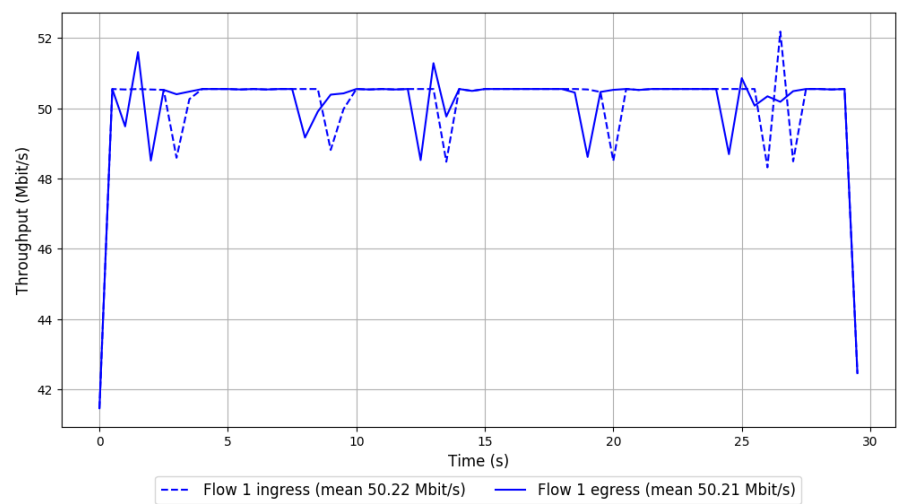
-- Flow 1:

Average throughput: 50.21 Mbit/s

95th percentile per-packet one-way delay: 3.107 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2017-12-11 14:04:40

End at: 2017-12-11 14:05:10

Local clock offset: -1.987 ms

Remote clock offset: 0.509 ms

Below is generated by plot.py at 2017-12-11 19:23:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.85 Mbit/s

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

Loss rate: 0.00%

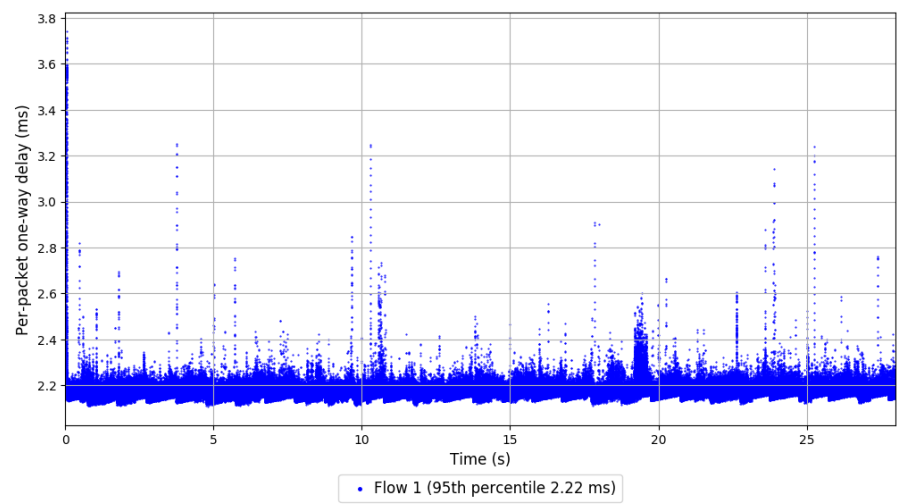
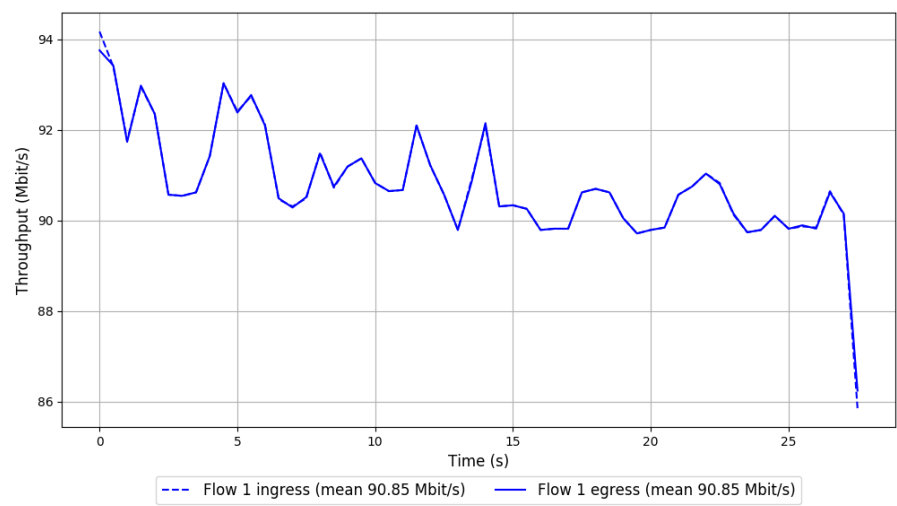
-- Flow 1:

Average throughput: 90.85 Mbit/s

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

Loss rate: 0.00%

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



Run 2: Statistics of TaoVA-100x

Start at: 2017-12-11 14:22:45

End at: 2017-12-11 14:23:15

Local clock offset: -1.57 ms

Remote clock offset: 0.186 ms

Below is generated by plot.py at 2017-12-11 19:25:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 229.07 Mbit/s

95th percentile per-packet one-way delay: 2.268 ms

Loss rate: 0.00%

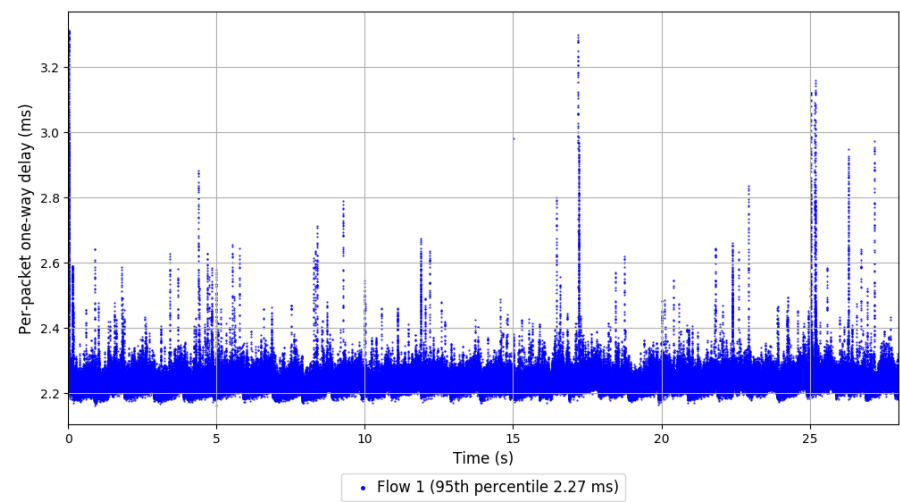
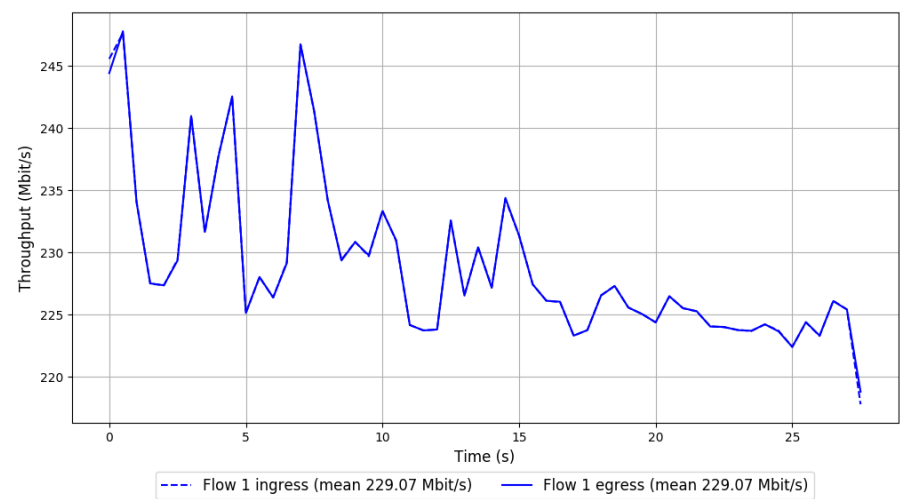
-- Flow 1:

Average throughput: 229.07 Mbit/s

95th percentile per-packet one-way delay: 2.268 ms

Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-12-11 14:40:52

End at: 2017-12-11 14:41:22

Local clock offset: -0.904 ms

Remote clock offset: 0.316 ms

Below is generated by plot.py at 2017-12-11 19:25:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.27 Mbit/s

95th percentile per-packet one-way delay: 2.255 ms

Loss rate: 0.00%

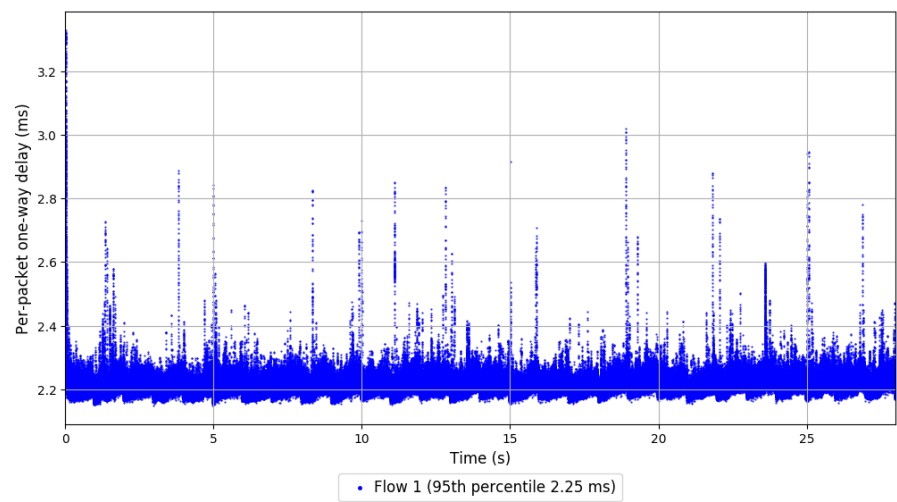
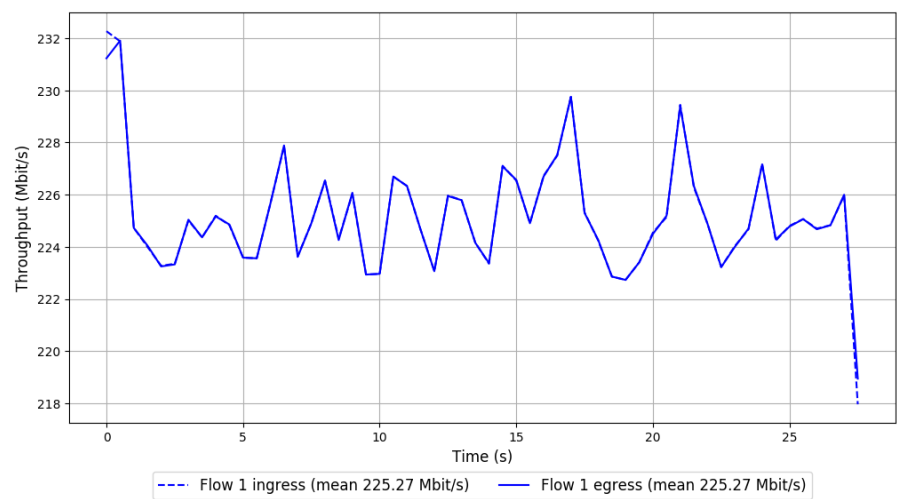
-- Flow 1:

Average throughput: 225.27 Mbit/s

95th percentile per-packet one-way delay: 2.255 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-12-11 14:59:04

End at: 2017-12-11 14:59:34

Local clock offset: -0.404 ms

Remote clock offset: 0.071 ms

Below is generated by plot.py at 2017-12-11 19:25:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 114.85 Mbit/s

95th percentile per-packet one-way delay: 2.213 ms

Loss rate: 0.00%

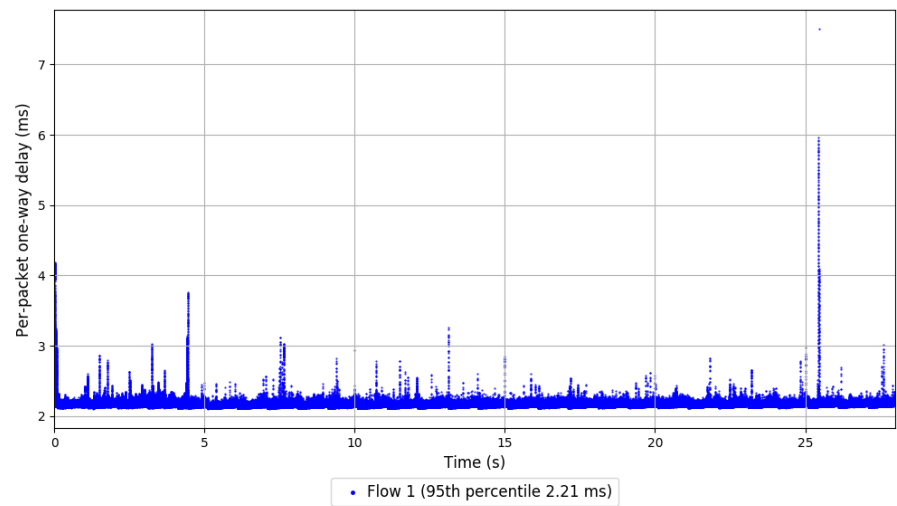
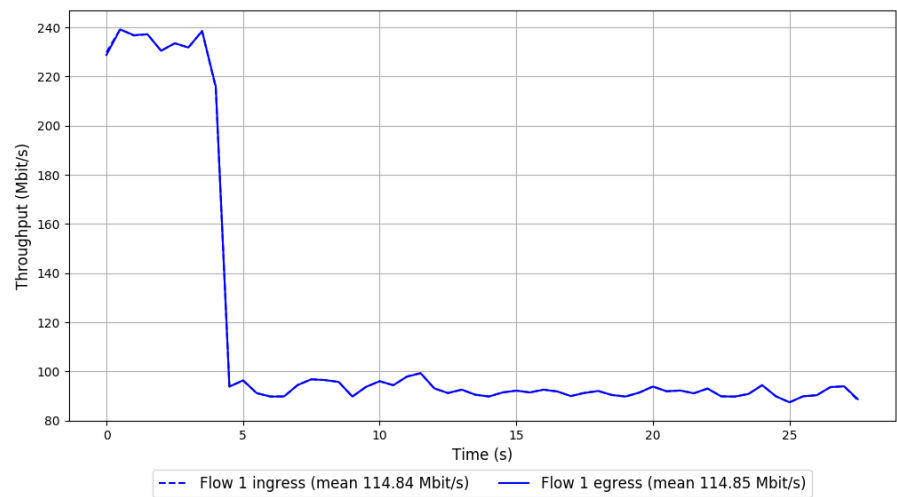
-- Flow 1:

Average throughput: 114.85 Mbit/s

95th percentile per-packet one-way delay: 2.213 ms

Loss rate: 0.00%

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

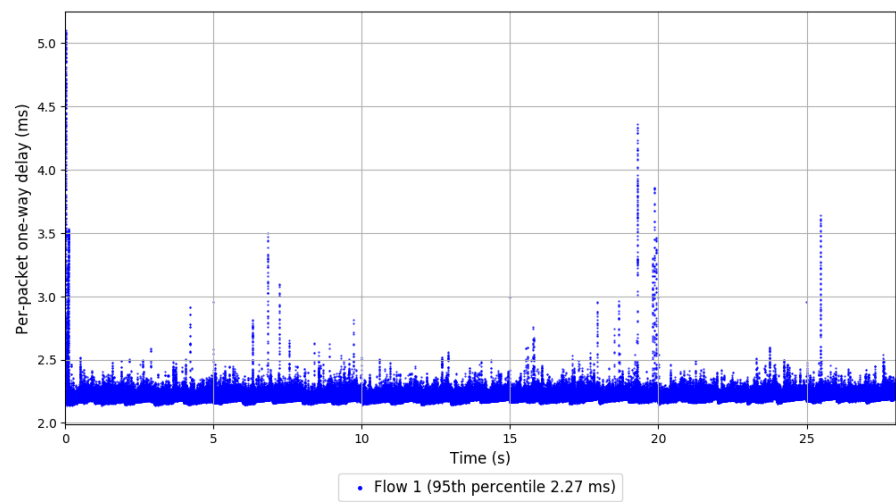
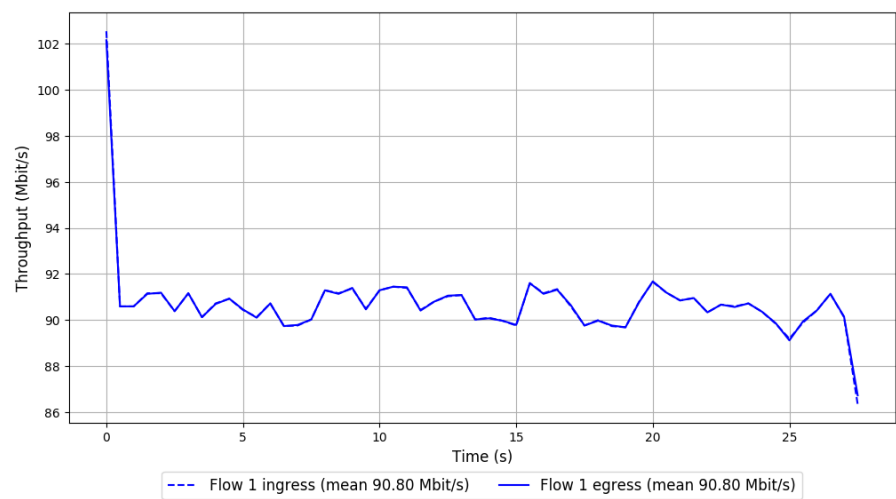


Run 5: Statistics of TaoVA-100x

Start at: 2017-12-11 15:17:11
End at: 2017-12-11 15:17:41
Local clock offset: 0.046 ms
Remote clock offset: -0.094 ms

Below is generated by plot.py at 2017-12-11 19:25:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.80 Mbit/s
95th percentile per-packet one-way delay: 2.265 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 90.80 Mbit/s
95th percentile per-packet one-way delay: 2.265 ms
Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-12-11 15:35:20

End at: 2017-12-11 15:35:50

Local clock offset: 0.512 ms

Remote clock offset: -0.244 ms

Below is generated by plot.py at 2017-12-11 19:25:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.89 Mbit/s

95th percentile per-packet one-way delay: 2.248 ms

Loss rate: 0.00%

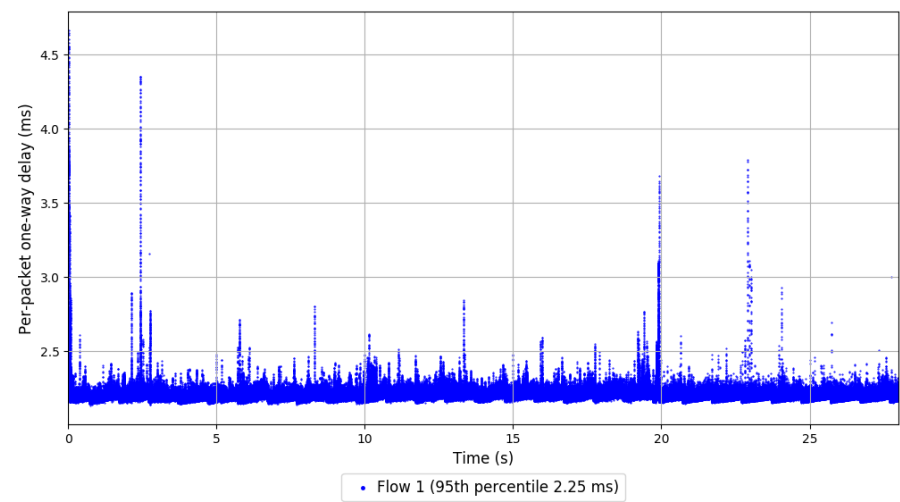
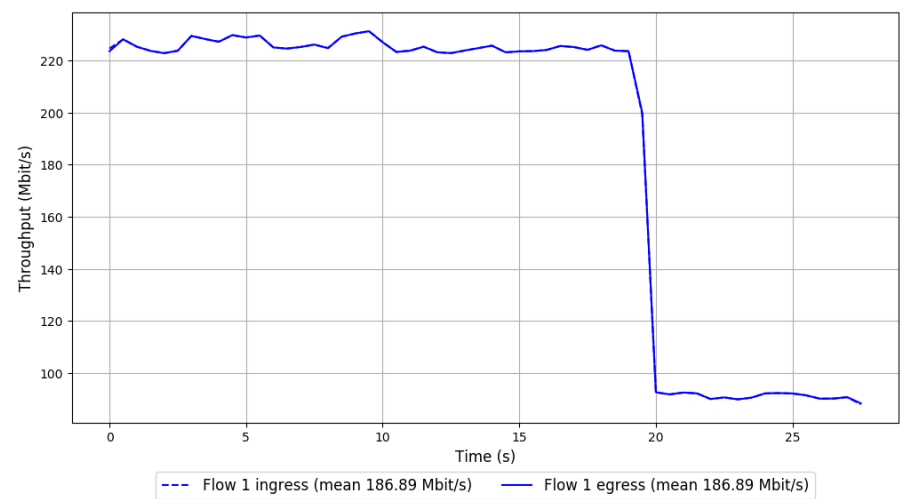
-- Flow 1:

Average throughput: 186.89 Mbit/s

95th percentile per-packet one-way delay: 2.248 ms

Loss rate: 0.00%

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

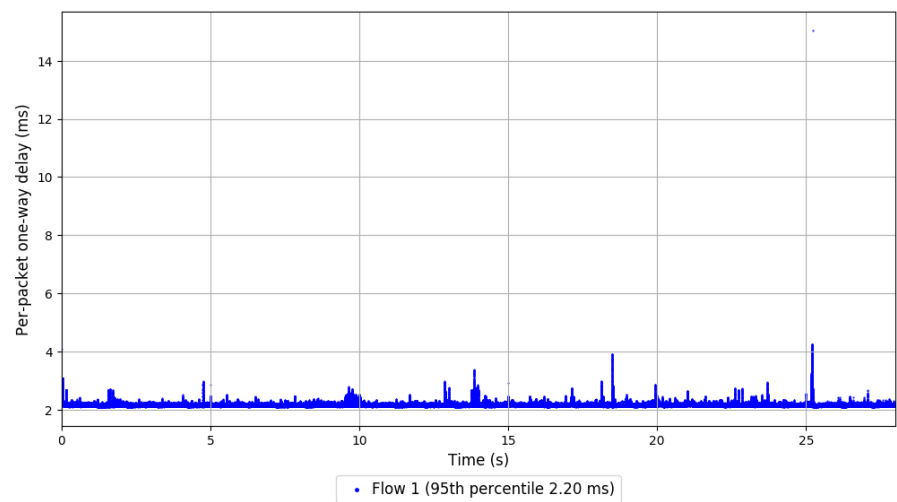
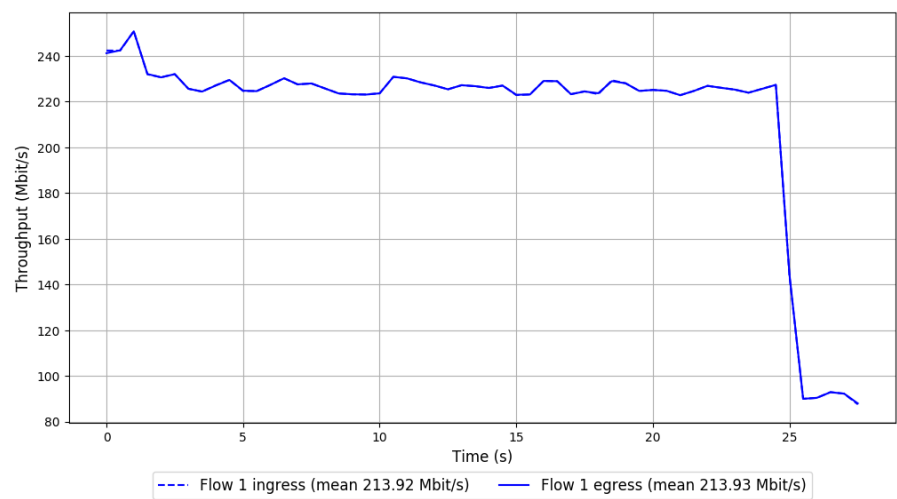


Run 7: Statistics of TaoVA-100x

Start at: 2017-12-11 15:53:21
End at: 2017-12-11 15:53:51
Local clock offset: 0.807 ms
Remote clock offset: -0.394 ms

Below is generated by plot.py at 2017-12-11 19:27:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 213.93 Mbit/s
95th percentile per-packet one-way delay: 2.198 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 213.93 Mbit/s
95th percentile per-packet one-way delay: 2.198 ms
Loss rate: 0.00%

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

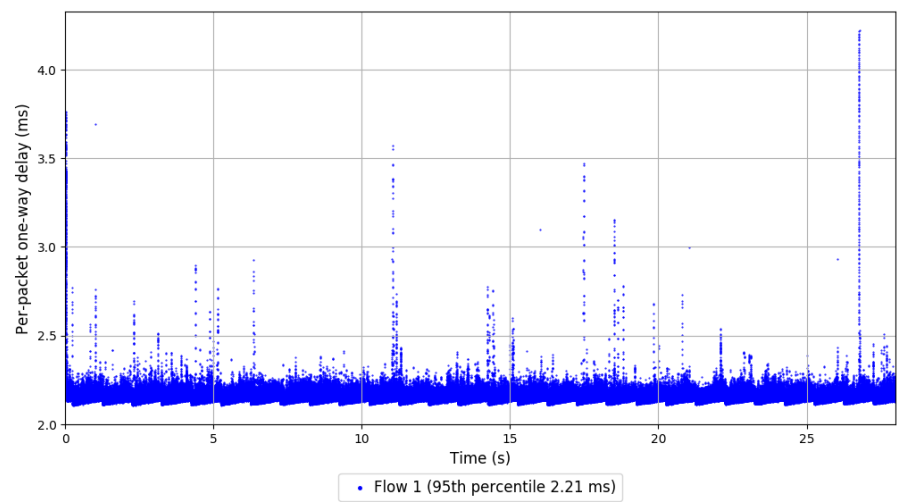
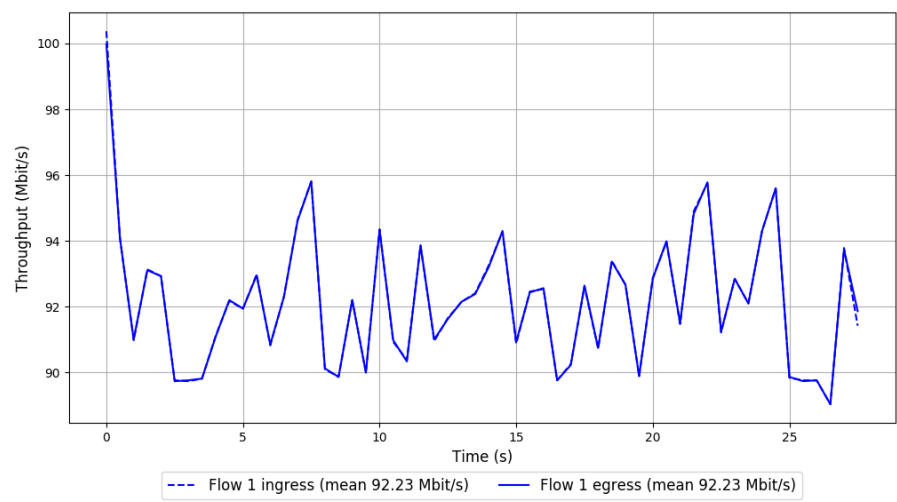


Run 8: Statistics of TaoVA-100x

Start at: 2017-12-11 16:11:32
End at: 2017-12-11 16:12:02
Local clock offset: 1.013 ms
Remote clock offset: -0.281 ms

Below is generated by plot.py at 2017-12-11 19:27:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.23 Mbit/s
95th percentile per-packet one-way delay: 2.205 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 92.23 Mbit/s
95th percentile per-packet one-way delay: 2.205 ms
Loss rate: 0.00%

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

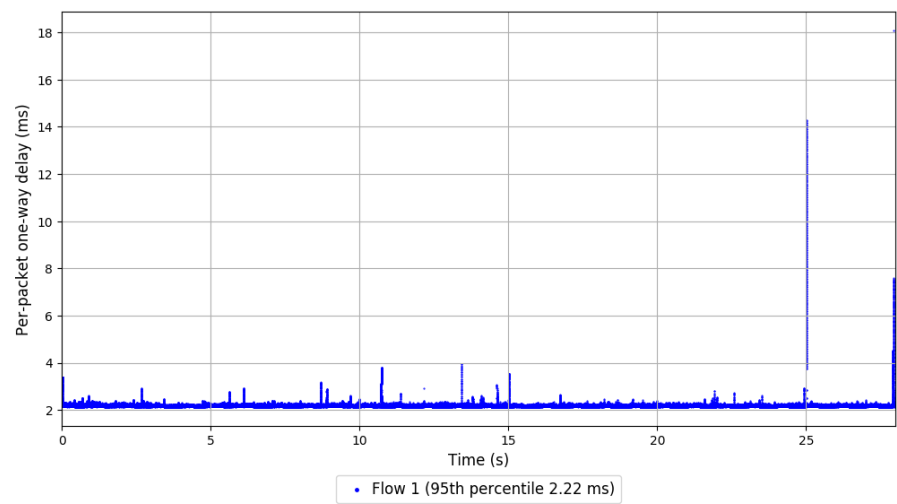
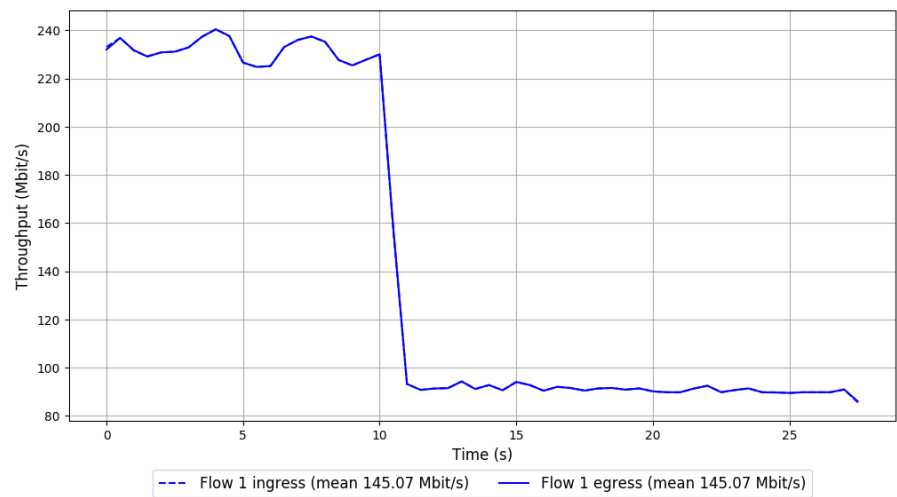


Run 9: Statistics of TaoVA-100x

Start at: 2017-12-11 16:29:39
End at: 2017-12-11 16:30:09
Local clock offset: 1.191 ms
Remote clock offset: -0.287 ms

Below is generated by plot.py at 2017-12-11 19:27:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 145.07 Mbit/s
95th percentile per-packet one-way delay: 2.217 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 145.07 Mbit/s
95th percentile per-packet one-way delay: 2.217 ms
Loss rate: 0.00%

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



Run 10: Statistics of TaoVA-100x

Start at: 2017-12-11 16:47:44

End at: 2017-12-11 16:48:14

Local clock offset: 1.14 ms

Remote clock offset: -0.255 ms

Below is generated by plot.py at 2017-12-11 19:27:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 144.27 Mbit/s

95th percentile per-packet one-way delay: 2.220 ms

Loss rate: 0.00%

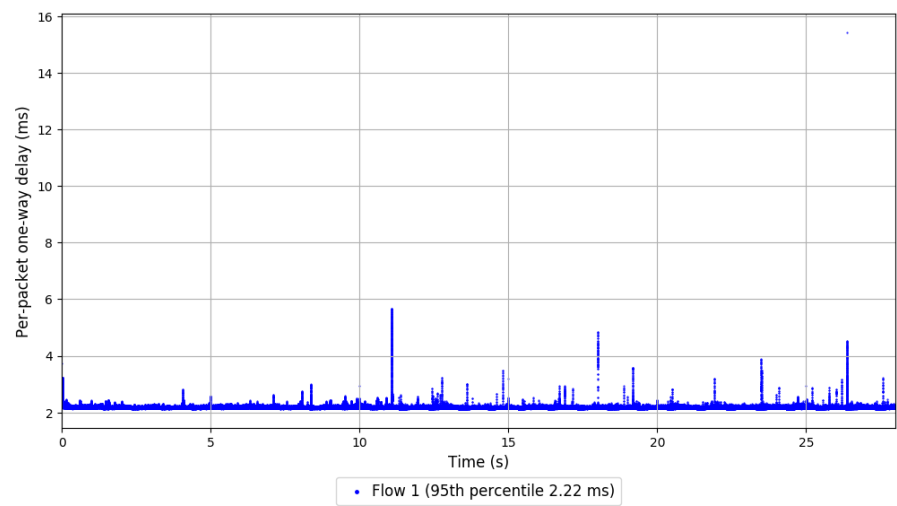
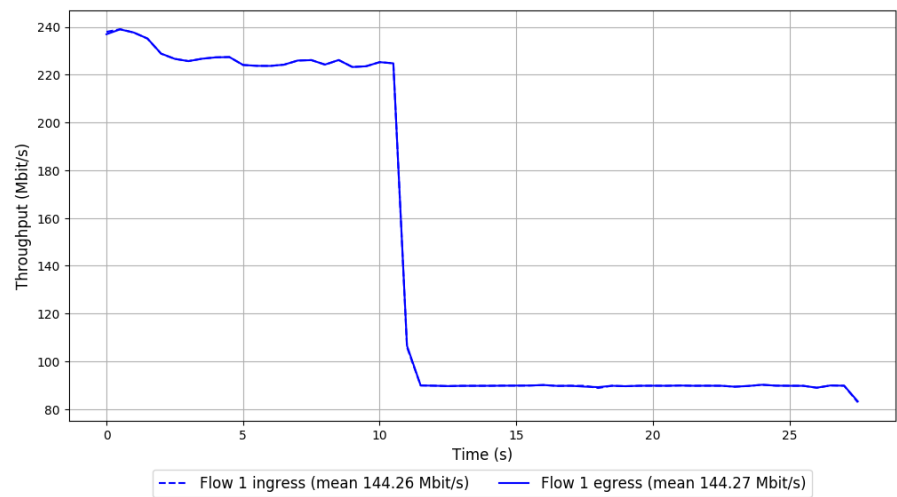
-- Flow 1:

Average throughput: 144.27 Mbit/s

95th percentile per-packet one-way delay: 2.220 ms

Loss rate: 0.00%

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



Run 1: Statistics of TCP Vegas

Start at: 2017-12-11 14:05:50

End at: 2017-12-11 14:06:20

Local clock offset: -2.003 ms

Remote clock offset: 0.489 ms

Below is generated by plot.py at 2017-12-11 19:29:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 480.72 Mbit/s

95th percentile per-packet one-way delay: 2.858 ms

Loss rate: 0.00%

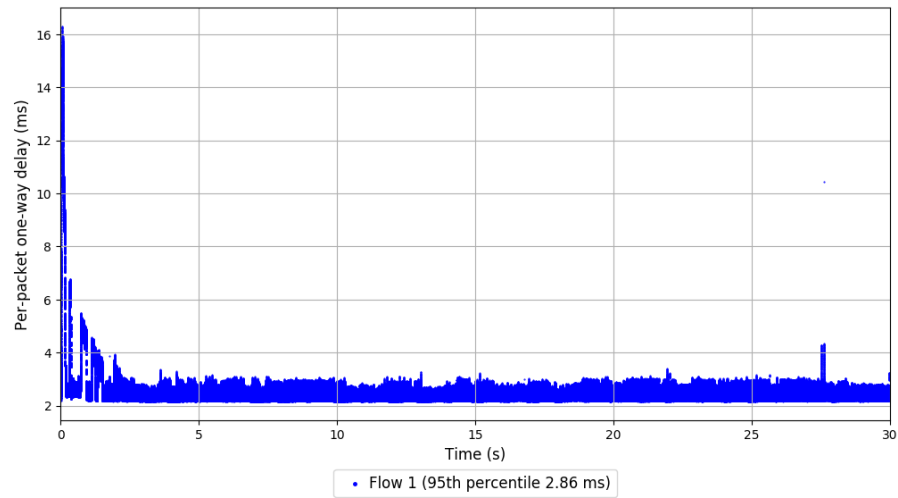
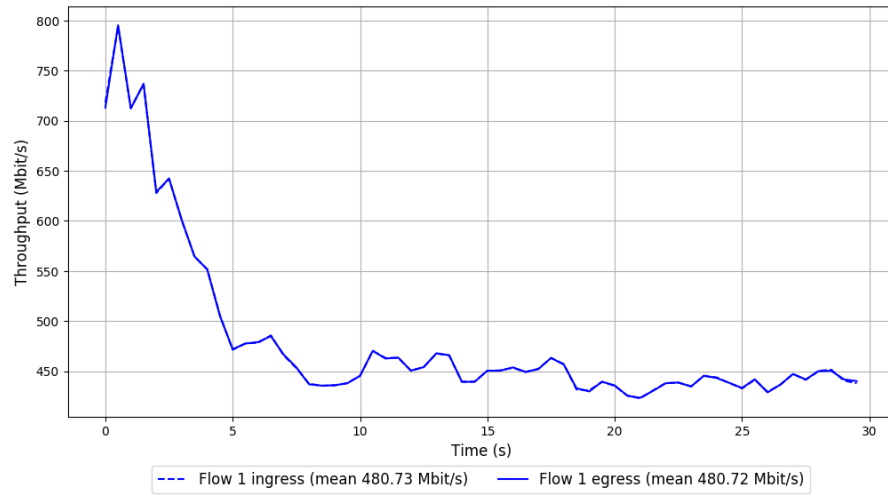
-- Flow 1:

Average throughput: 480.72 Mbit/s

95th percentile per-packet one-way delay: 2.858 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-12-11 14:24:04

End at: 2017-12-11 14:24:34

Local clock offset: -1.458 ms

Remote clock offset: 0.189 ms

Below is generated by plot.py at 2017-12-11 19:29:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 388.12 Mbit/s

95th percentile per-packet one-way delay: 2.670 ms

Loss rate: 0.00%

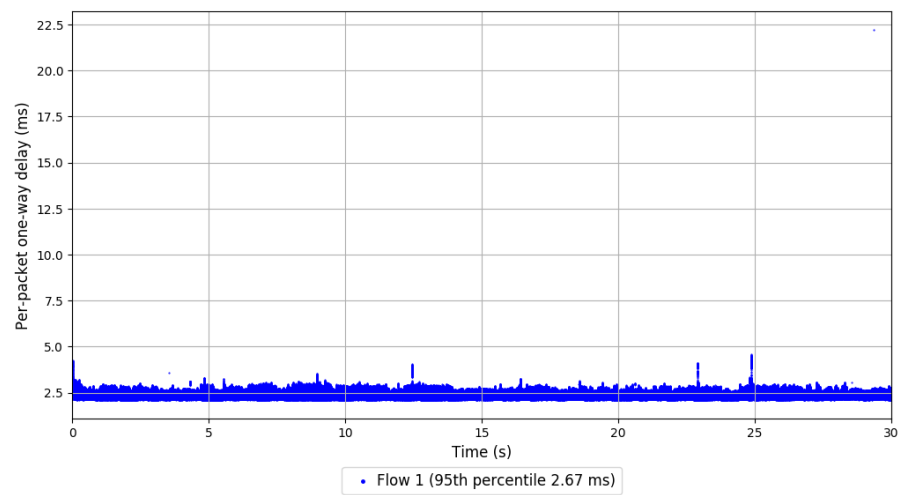
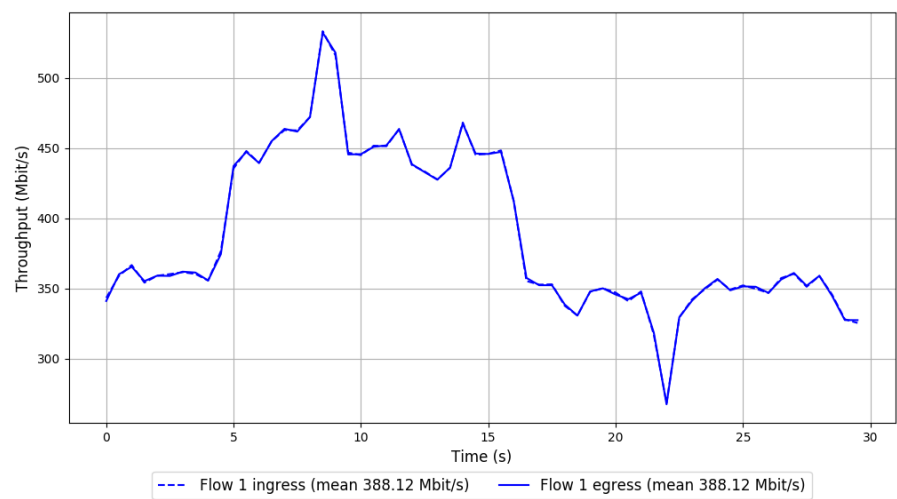
-- Flow 1:

Average throughput: 388.12 Mbit/s

95th percentile per-packet one-way delay: 2.670 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

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

End at: 2017-12-11 14:42:41

Local clock offset: -0.868 ms

Remote clock offset: 0.227 ms

Below is generated by plot.py at 2017-12-11 19:32:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 513.25 Mbit/s

95th percentile per-packet one-way delay: 2.718 ms

Loss rate: 0.00%

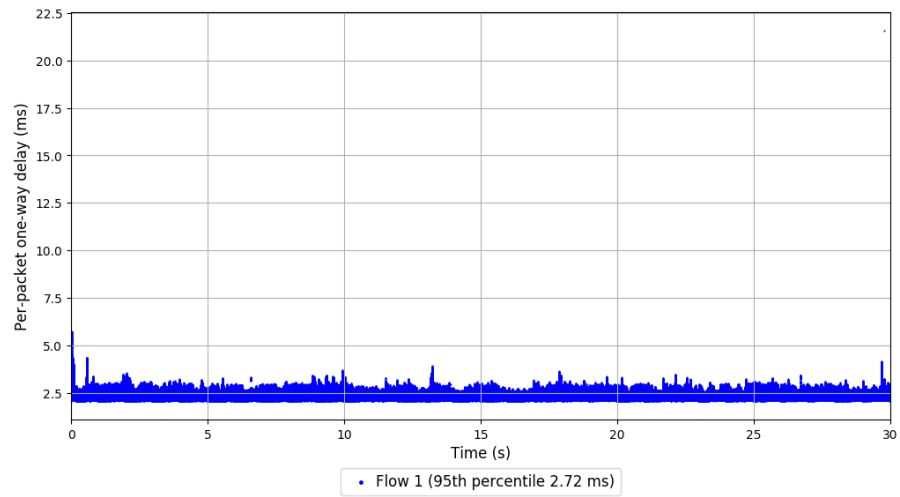
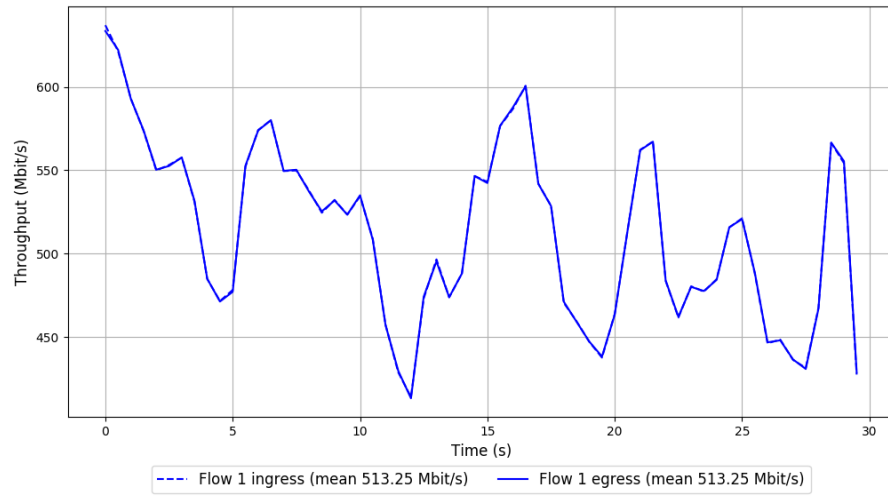
-- Flow 1:

Average throughput: 513.25 Mbit/s

95th percentile per-packet one-way delay: 2.718 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-12-11 15:00:15

End at: 2017-12-11 15:00:45

Local clock offset: -0.376 ms

Remote clock offset: 0.09 ms

Below is generated by plot.py at 2017-12-11 19:32:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 430.69 Mbit/s

95th percentile per-packet one-way delay: 3.190 ms

Loss rate: 0.00%

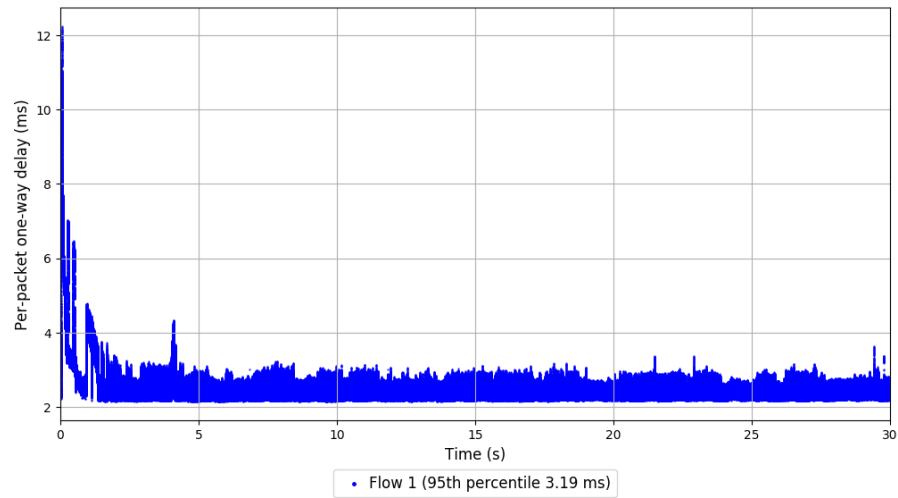
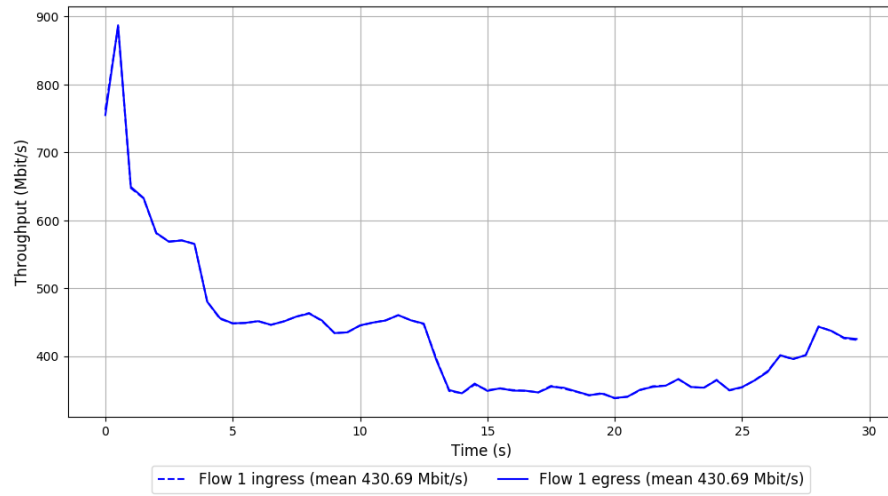
-- Flow 1:

Average throughput: 430.69 Mbit/s

95th percentile per-packet one-way delay: 3.190 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link

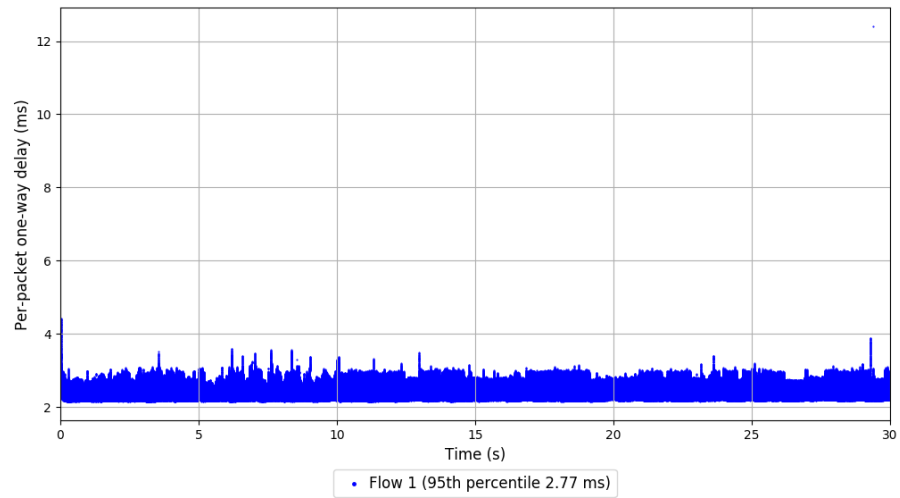
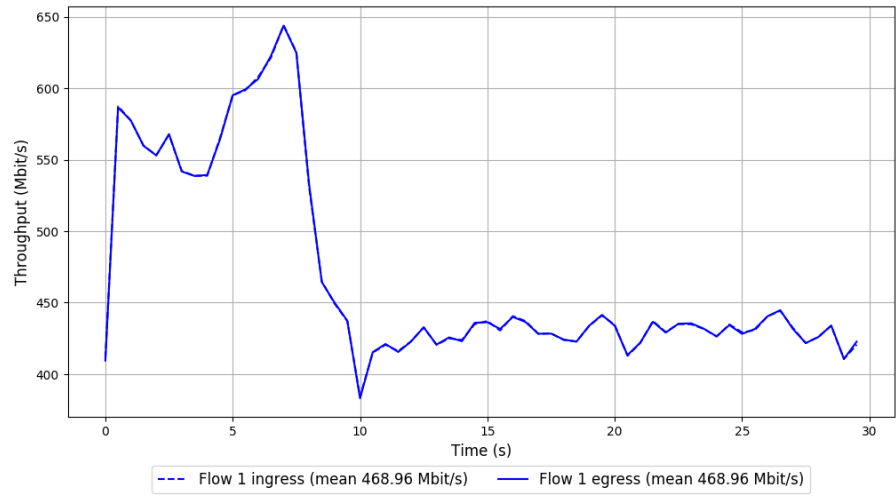


Run 5: Statistics of TCP Vegas

Start at: 2017-12-11 15:18:21
End at: 2017-12-11 15:18:51
Local clock offset: 0.071 ms
Remote clock offset: -0.115 ms

Below is generated by plot.py at 2017-12-11 19:32:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 468.96 Mbit/s
95th percentile per-packet one-way delay: 2.773 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 468.96 Mbit/s
95th percentile per-packet one-way delay: 2.773 ms
Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link

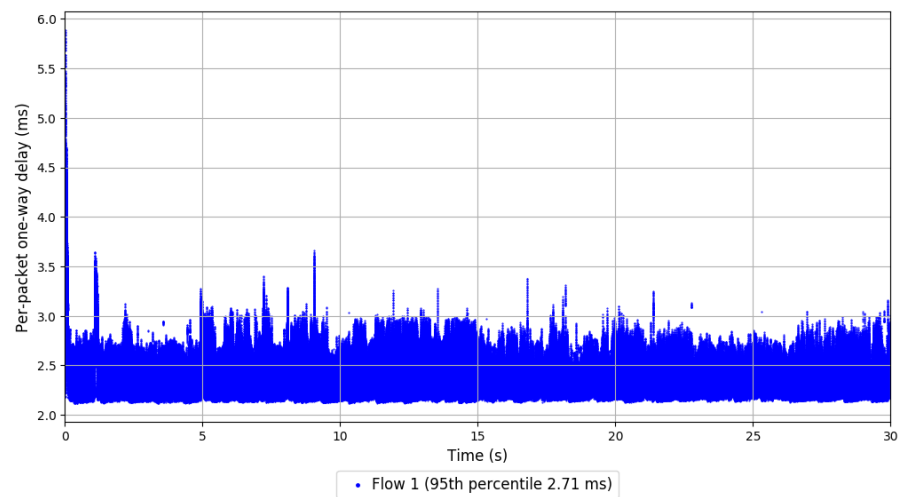
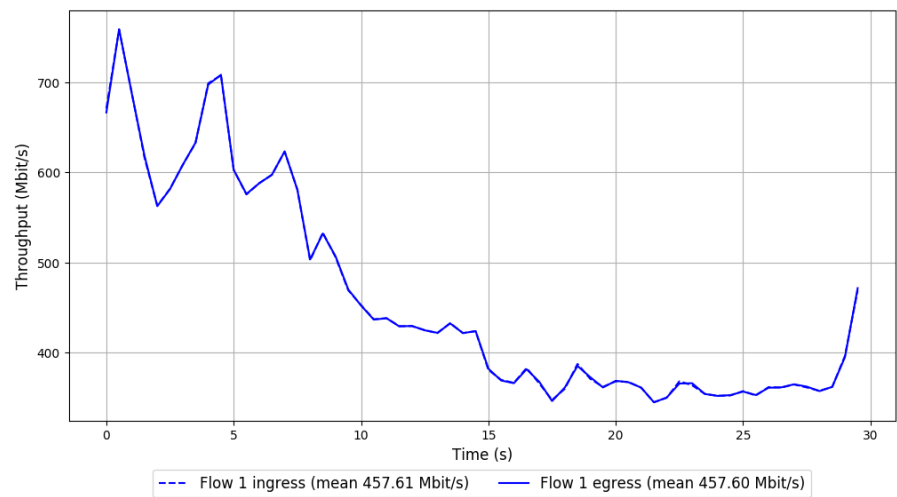


Run 6: Statistics of TCP Vegas

Start at: 2017-12-11 15:36:36
End at: 2017-12-11 15:37:06
Local clock offset: 0.552 ms
Remote clock offset: -0.268 ms

Below is generated by plot.py at 2017-12-11 19:32:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 457.60 Mbit/s
95th percentile per-packet one-way delay: 2.715 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 457.60 Mbit/s
95th percentile per-packet one-way delay: 2.715 ms
Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link

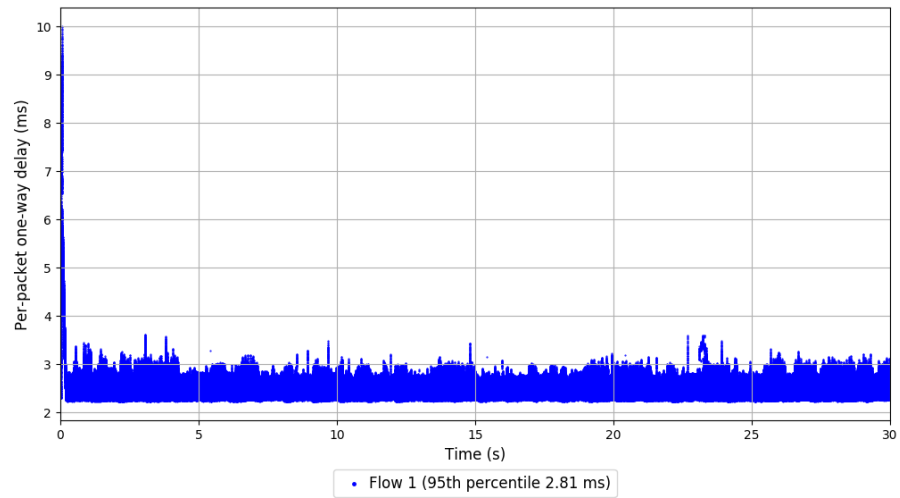
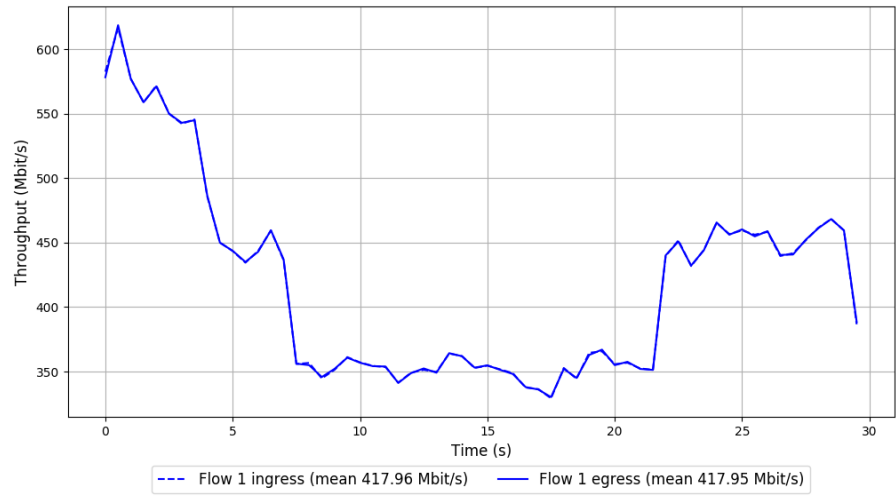


Run 7: Statistics of TCP Vegas

Start at: 2017-12-11 15:54:39
End at: 2017-12-11 15:55:09
Local clock offset: 0.771 ms
Remote clock offset: -0.326 ms

Below is generated by plot.py at 2017-12-11 19:32:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 417.95 Mbit/s
95th percentile per-packet one-way delay: 2.808 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 417.95 Mbit/s
95th percentile per-packet one-way delay: 2.808 ms
Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link

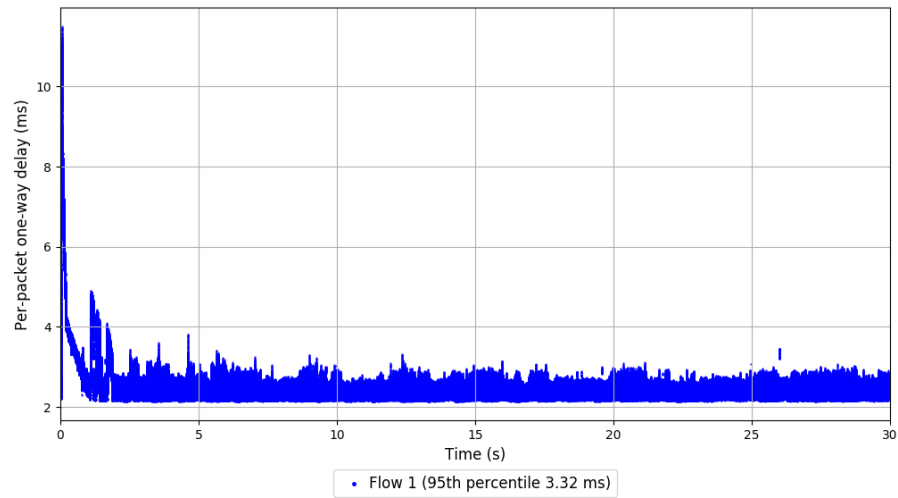
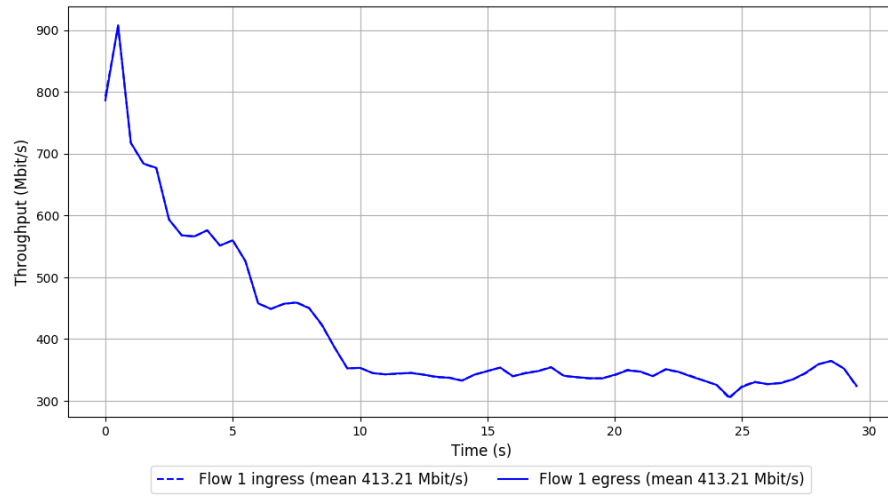


Run 8: Statistics of TCP Vegas

Start at: 2017-12-11 16:12:42
End at: 2017-12-11 16:13:12
Local clock offset: 1.008 ms
Remote clock offset: -0.273 ms

Below is generated by plot.py at 2017-12-11 19:32:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 413.21 Mbit/s
95th percentile per-packet one-way delay: 3.320 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 413.21 Mbit/s
95th percentile per-packet one-way delay: 3.320 ms
Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link

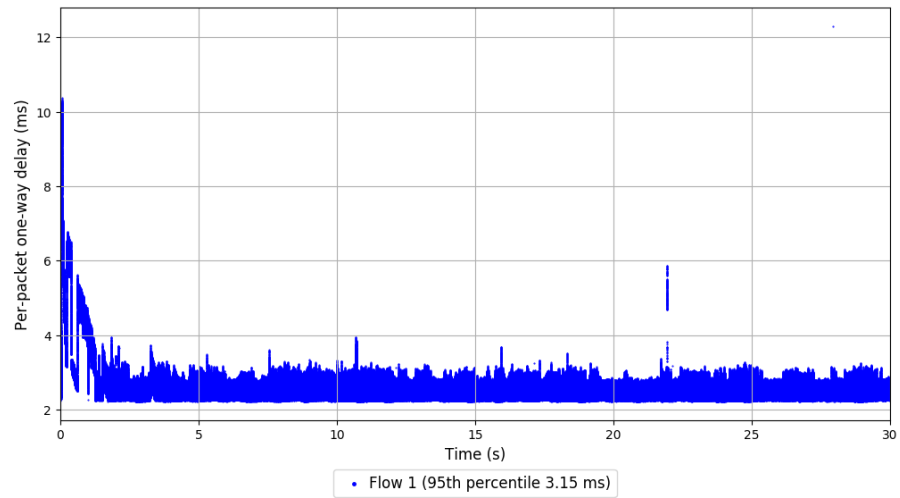
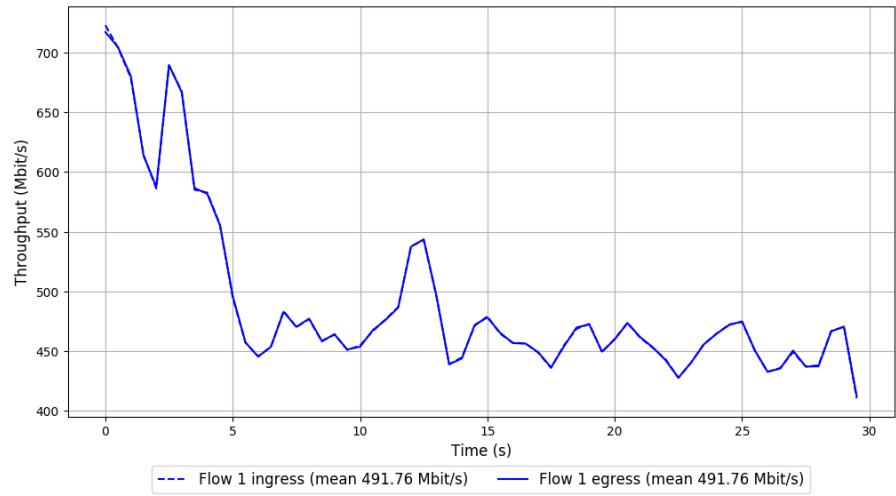


Run 9: Statistics of TCP Vegas

Start at: 2017-12-11 16:30:52
End at: 2017-12-11 16:31:22
Local clock offset: 1.12 ms
Remote clock offset: -0.261 ms

Below is generated by plot.py at 2017-12-11 19:37:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 491.76 Mbit/s
95th percentile per-packet one-way delay: 3.155 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 491.76 Mbit/s
95th percentile per-packet one-way delay: 3.155 ms
Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-12-11 16:48:58

End at: 2017-12-11 16:49:28

Local clock offset: 1.141 ms

Remote clock offset: -0.255 ms

Below is generated by plot.py at 2017-12-11 19:37:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 425.75 Mbit/s

95th percentile per-packet one-way delay: 2.775 ms

Loss rate: 0.00%

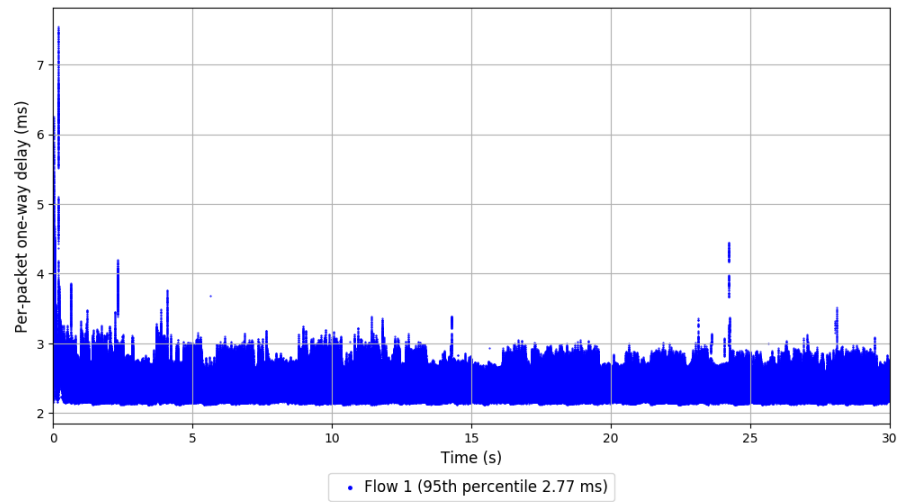
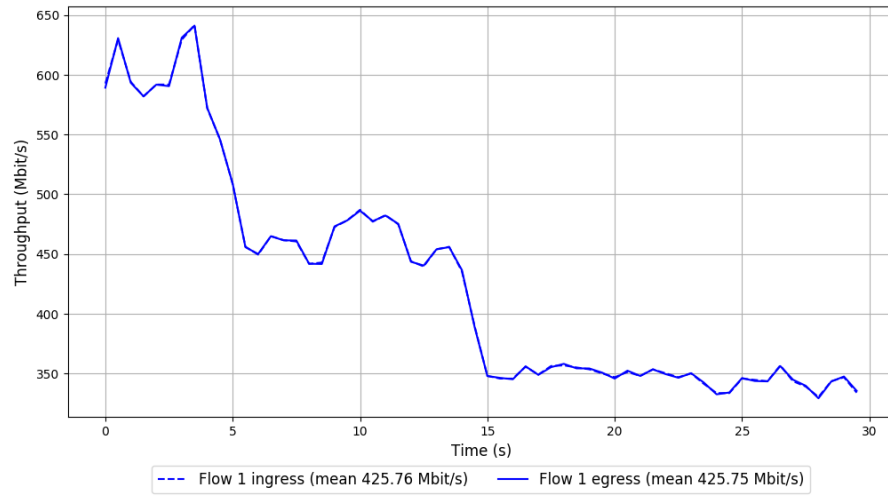
-- Flow 1:

Average throughput: 425.75 Mbit/s

95th percentile per-packet one-way delay: 2.775 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-12-11 13:51:23

End at: 2017-12-11 13:51:53

Local clock offset: -2.087 ms

Remote clock offset: 0.84 ms

Below is generated by plot.py at 2017-12-11 19:37:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 340.56 Mbit/s

95th percentile per-packet one-way delay: 11.770 ms

Loss rate: 0.79%

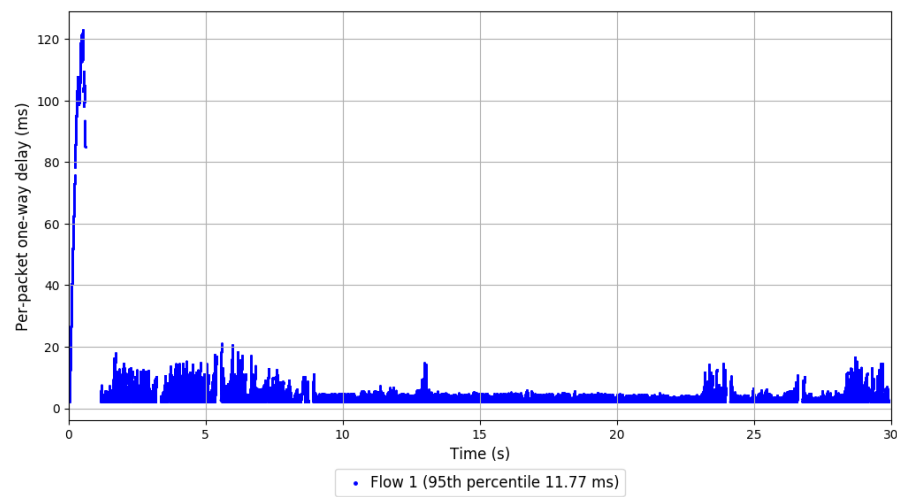
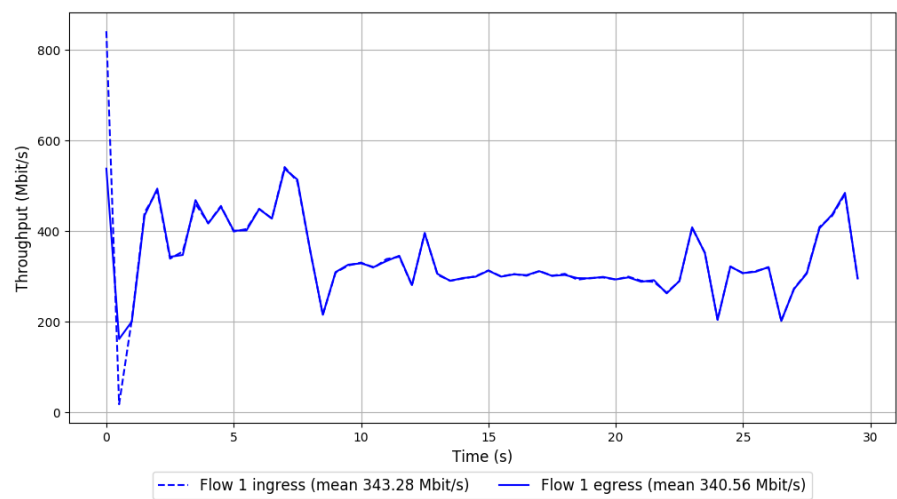
-- Flow 1:

Average throughput: 340.56 Mbit/s

95th percentile per-packet one-way delay: 11.770 ms

Loss rate: 0.79%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-12-11 14:09:30

End at: 2017-12-11 14:10:00

Local clock offset: -1.955 ms

Remote clock offset: 0.377 ms

Below is generated by plot.py at 2017-12-11 19:37:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 336.08 Mbit/s

95th percentile per-packet one-way delay: 9.938 ms

Loss rate: 0.04%

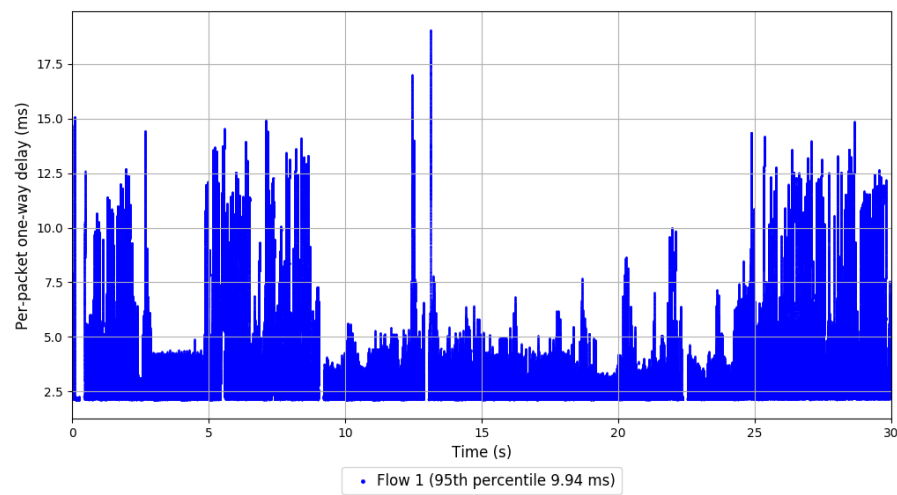
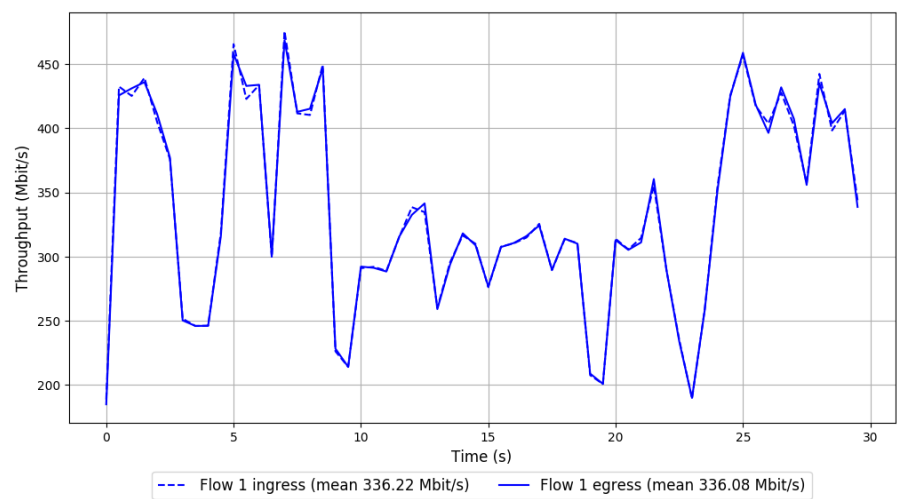
-- Flow 1:

Average throughput: 336.08 Mbit/s

95th percentile per-packet one-way delay: 9.938 ms

Loss rate: 0.04%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-12-11 14:27:41

End at: 2017-12-11 14:28:11

Local clock offset: -1.338 ms

Remote clock offset: 0.208 ms

Below is generated by plot.py at 2017-12-11 19:37:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 335.60 Mbit/s

95th percentile per-packet one-way delay: 8.218 ms

Loss rate: 0.09%

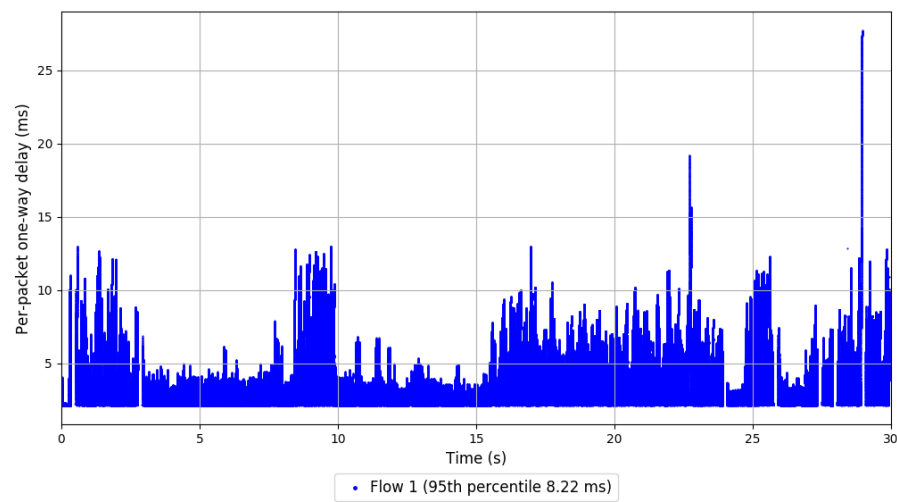
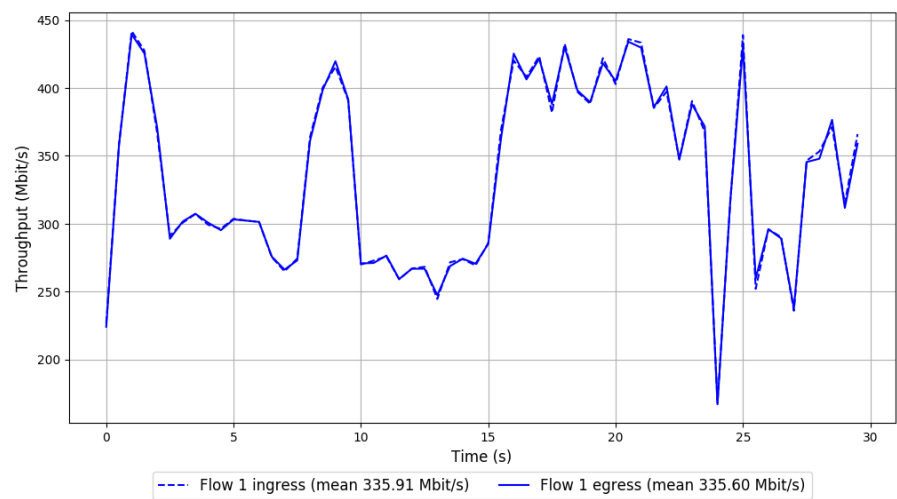
-- Flow 1:

Average throughput: 335.60 Mbit/s

95th percentile per-packet one-way delay: 8.218 ms

Loss rate: 0.09%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-12-11 14:45:53

End at: 2017-12-11 14:46:23

Local clock offset: -0.865 ms

Remote clock offset: 0.232 ms

Below is generated by plot.py at 2017-12-11 19:37:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 355.42 Mbit/s

95th percentile per-packet one-way delay: 12.406 ms

Loss rate: 0.04%

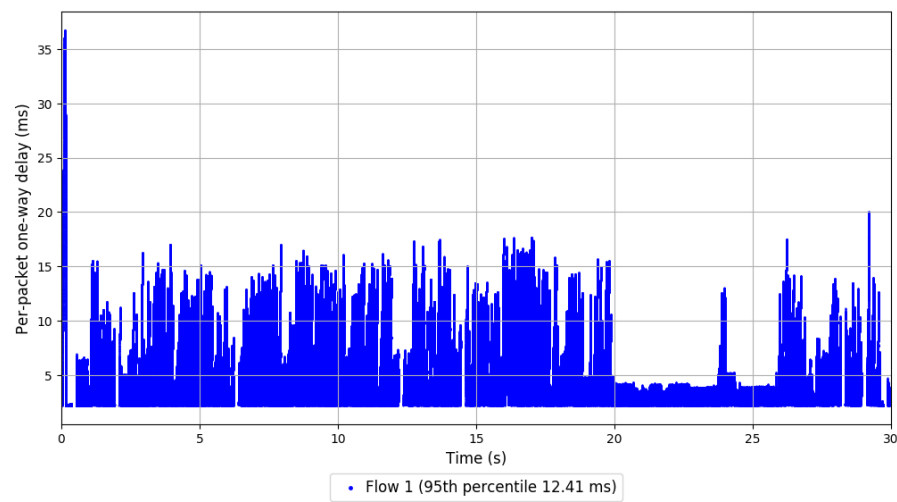
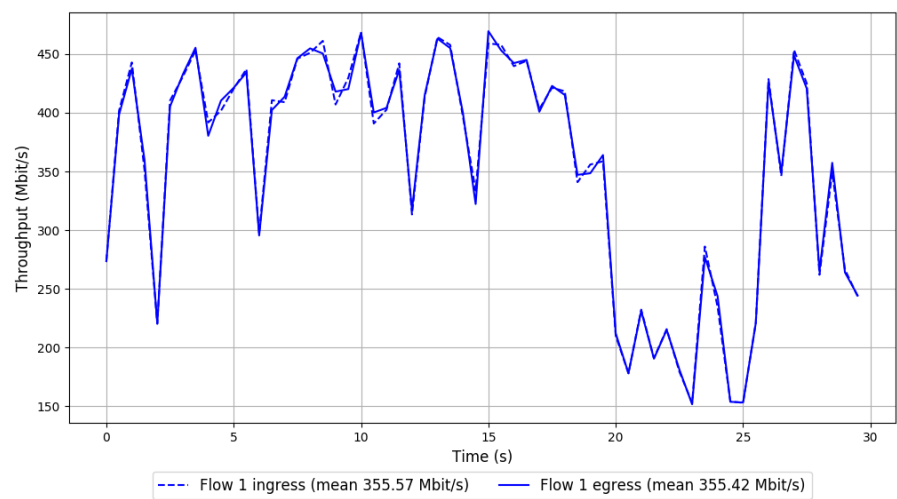
-- Flow 1:

Average throughput: 355.42 Mbit/s

95th percentile per-packet one-way delay: 12.406 ms

Loss rate: 0.04%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-12-11 15:03:54

End at: 2017-12-11 15:04:24

Local clock offset: -0.374 ms

Remote clock offset: 0.023 ms

Below is generated by plot.py at 2017-12-11 19:38:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 424.83 Mbit/s

95th percentile per-packet one-way delay: 13.840 ms

Loss rate: 0.13%

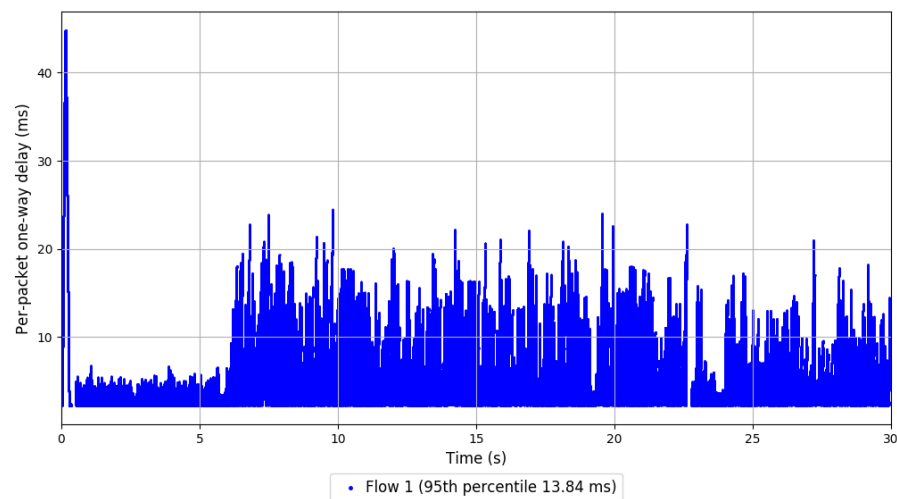
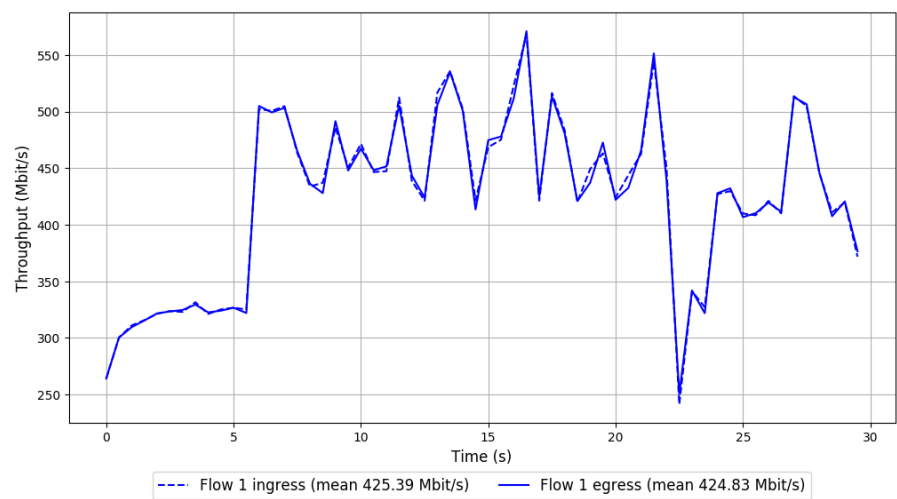
-- Flow 1:

Average throughput: 424.83 Mbit/s

95th percentile per-packet one-way delay: 13.840 ms

Loss rate: 0.13%

Run 5: Report of Verus — Data Link

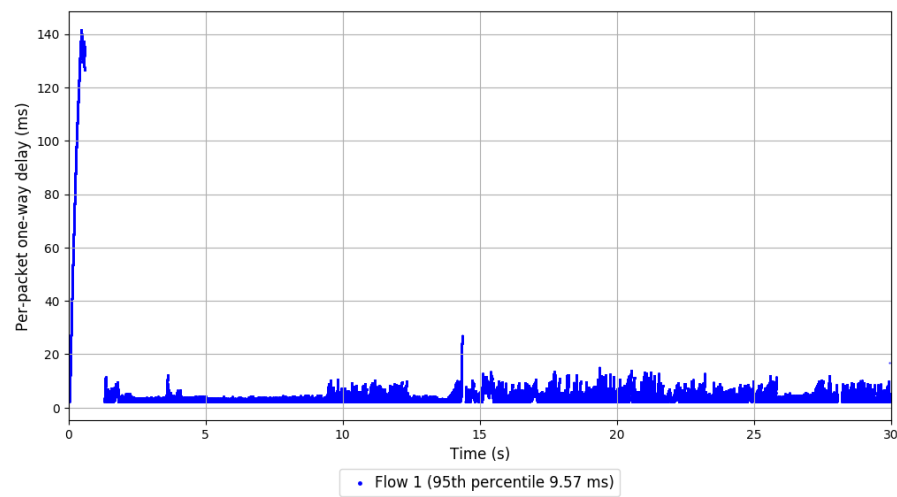
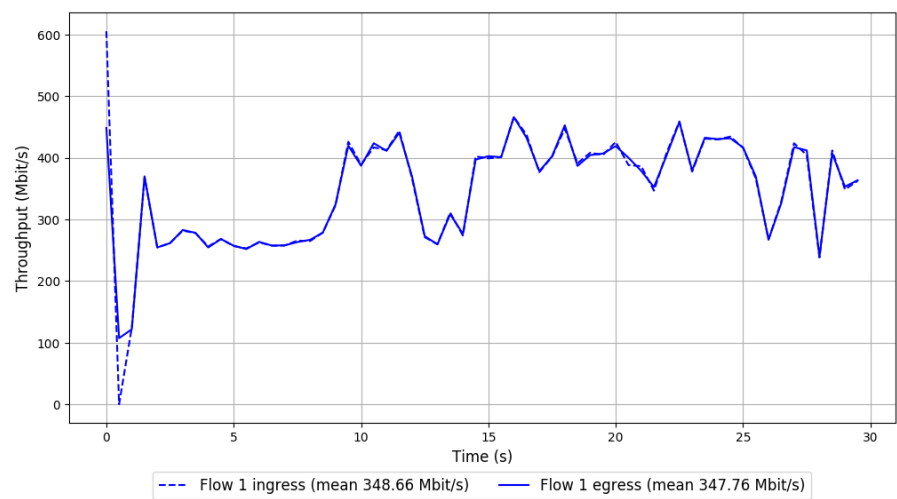


Run 6: Statistics of Verus

Start at: 2017-12-11 15:22:01
End at: 2017-12-11 15:22:31
Local clock offset: 0.104 ms
Remote clock offset: -0.147 ms

Below is generated by plot.py at 2017-12-11 19:38:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 347.76 Mbit/s
95th percentile per-packet one-way delay: 9.573 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 347.76 Mbit/s
95th percentile per-packet one-way delay: 9.573 ms
Loss rate: 0.25%

Run 6: Report of Verus — Data Link

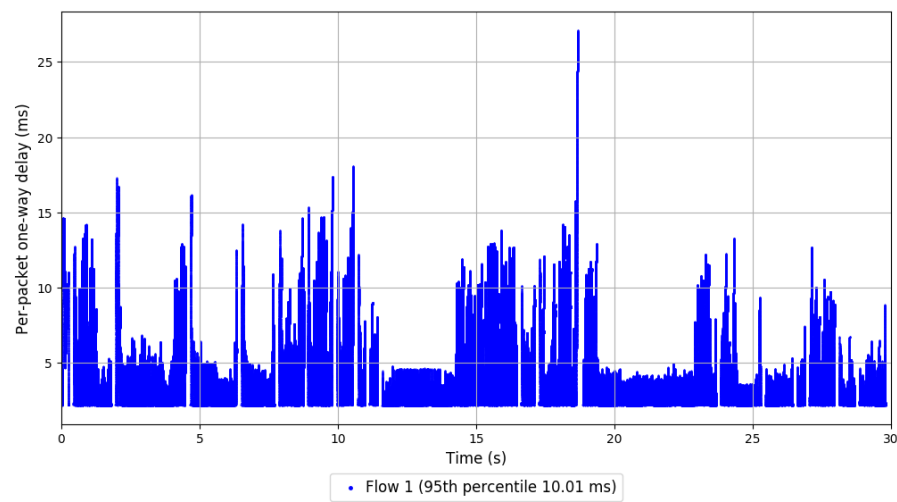
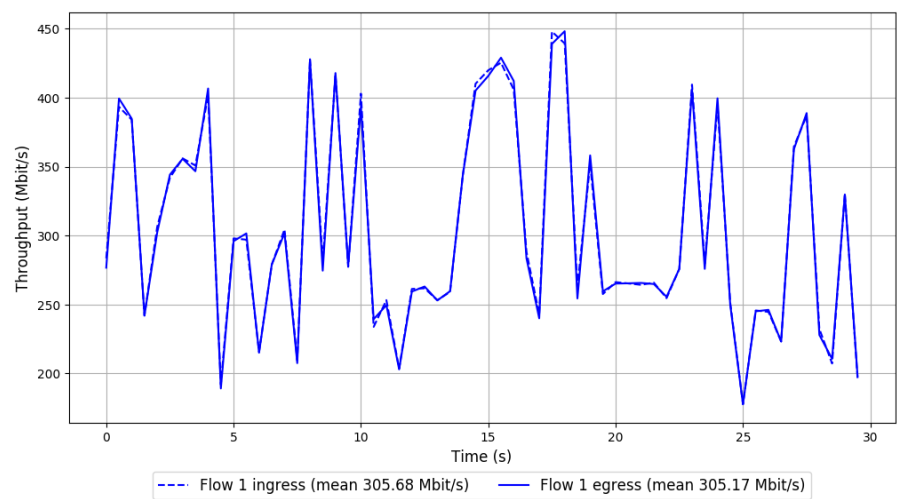


Run 7: Statistics of Verus

Start at: 2017-12-11 15:40:11
End at: 2017-12-11 15:40:41
Local clock offset: 0.604 ms
Remote clock offset: -0.264 ms

Below is generated by plot.py at 2017-12-11 19:40:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 305.17 Mbit/s
95th percentile per-packet one-way delay: 10.006 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 305.17 Mbit/s
95th percentile per-packet one-way delay: 10.006 ms
Loss rate: 0.17%

Run 7: Report of Verus — Data Link

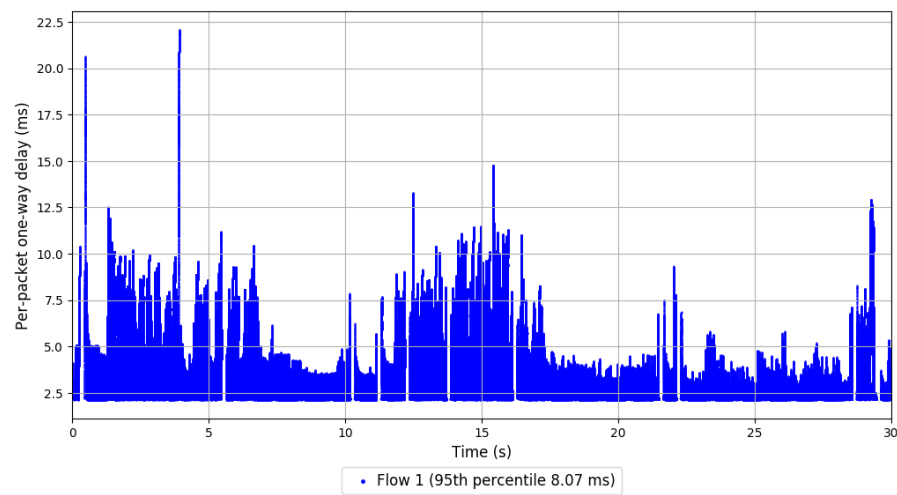
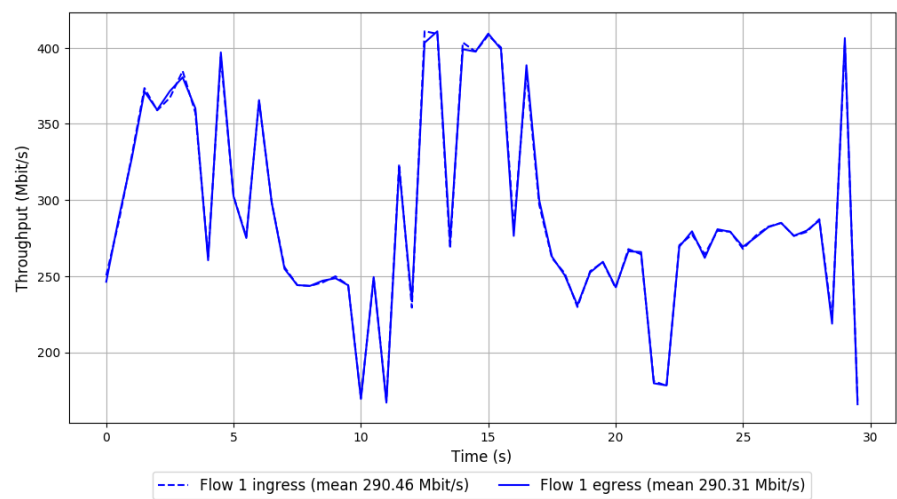


Run 8: Statistics of Verus

Start at: 2017-12-11 15:58:17
End at: 2017-12-11 15:58:47
Local clock offset: 0.858 ms
Remote clock offset: -0.362 ms

Below is generated by plot.py at 2017-12-11 19:40:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 290.31 Mbit/s
95th percentile per-packet one-way delay: 8.069 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 290.31 Mbit/s
95th percentile per-packet one-way delay: 8.069 ms
Loss rate: 0.05%

Run 8: Report of Verus — Data Link

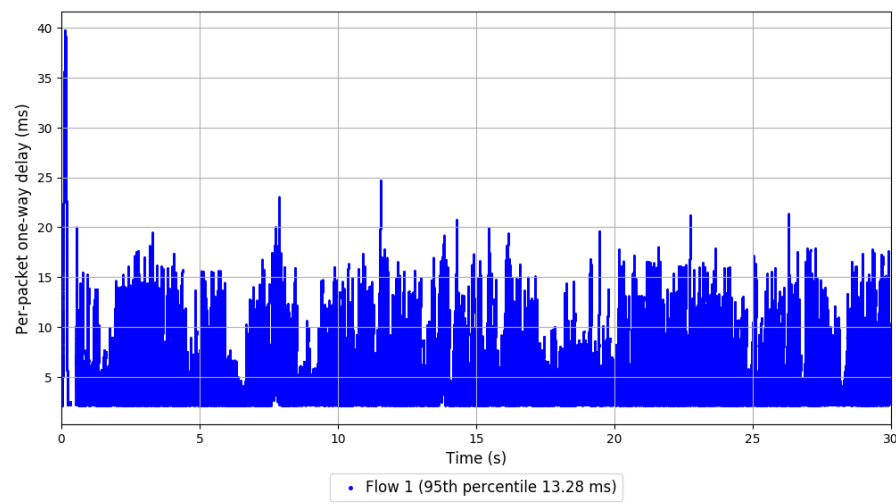
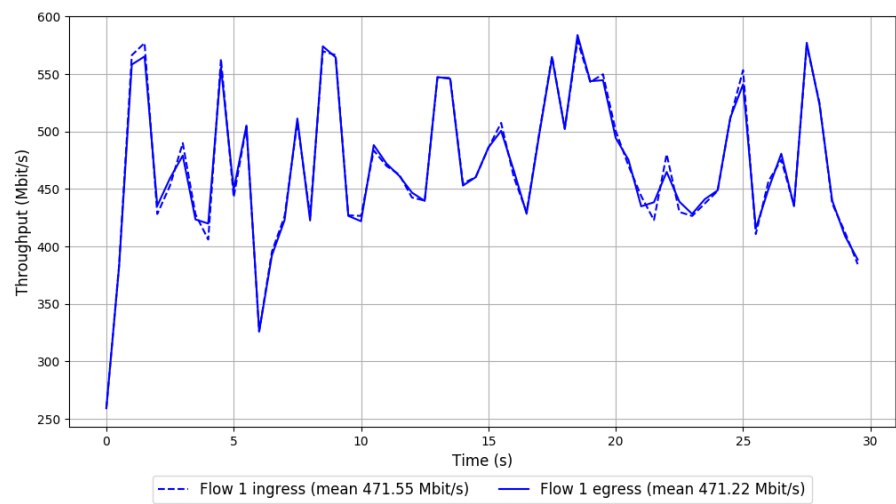


Run 9: Statistics of Verus

Start at: 2017-12-11 16:16:20
End at: 2017-12-11 16:16:50
Local clock offset: 1.027 ms
Remote clock offset: -0.278 ms

Below is generated by plot.py at 2017-12-11 19:43:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 471.22 Mbit/s
95th percentile per-packet one-way delay: 13.278 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 471.22 Mbit/s
95th percentile per-packet one-way delay: 13.278 ms
Loss rate: 0.06%

Run 9: Report of Verus — Data Link

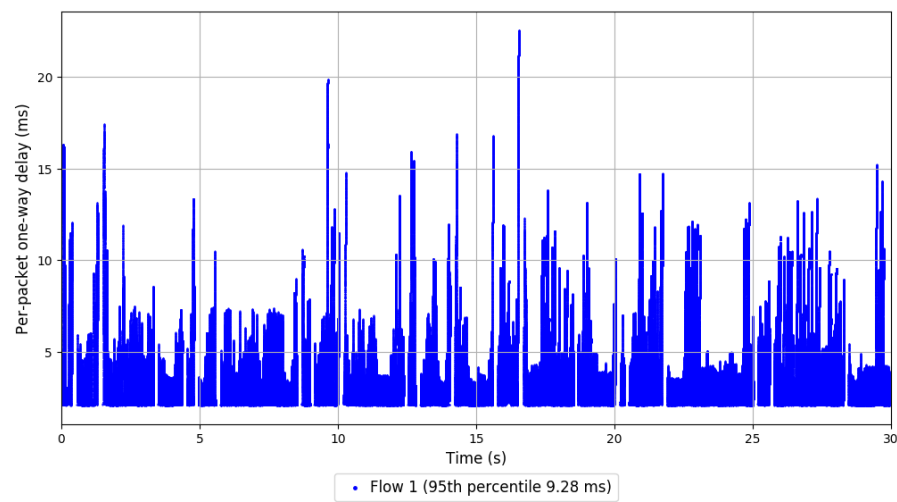
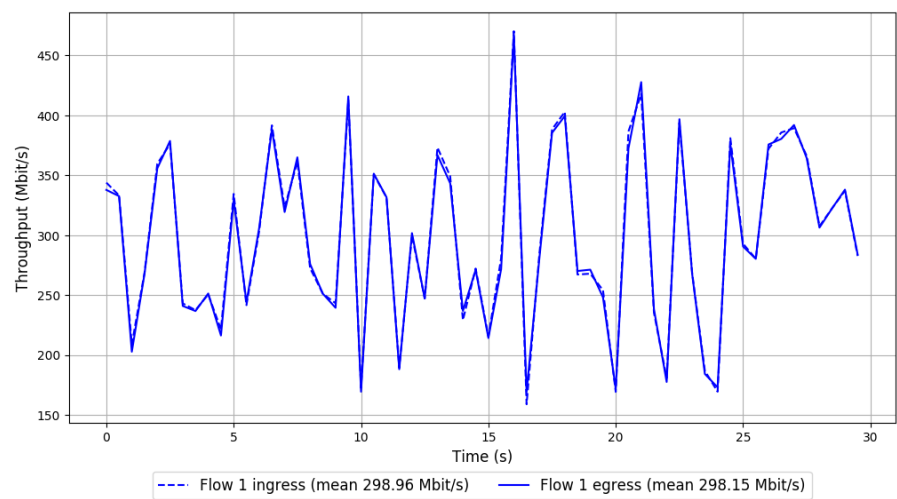


Run 10: Statistics of Verus

Start at: 2017-12-11 16:34:33
End at: 2017-12-11 16:35:03
Local clock offset: 1.198 ms
Remote clock offset: -0.309 ms

Below is generated by plot.py at 2017-12-11 19:43:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 298.15 Mbit/s
95th percentile per-packet one-way delay: 9.275 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 298.15 Mbit/s
95th percentile per-packet one-way delay: 9.275 ms
Loss rate: 0.27%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-12-11 13:52:45

End at: 2017-12-11 13:53:15

Local clock offset: -2.054 ms

Remote clock offset: 0.813 ms

Below is generated by plot.py at 2017-12-11 19:43:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 109.36 Mbit/s

95th percentile per-packet one-way delay: 2.244 ms

Loss rate: 0.00%

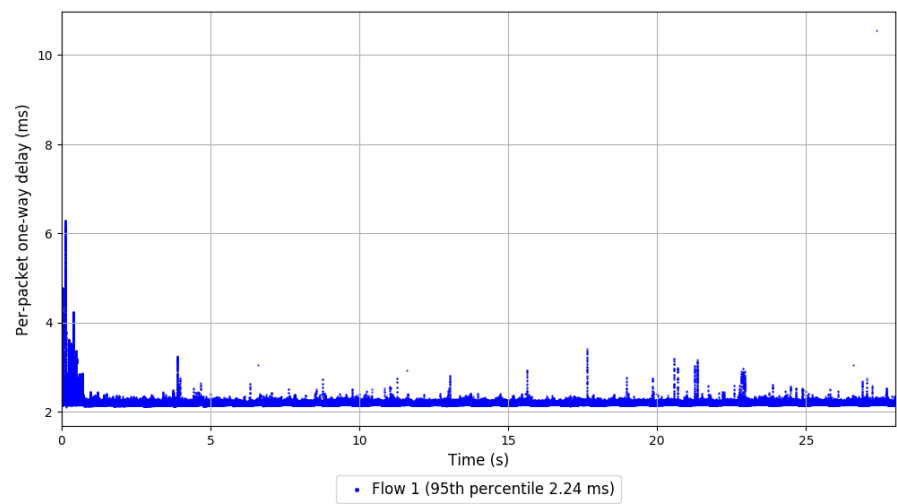
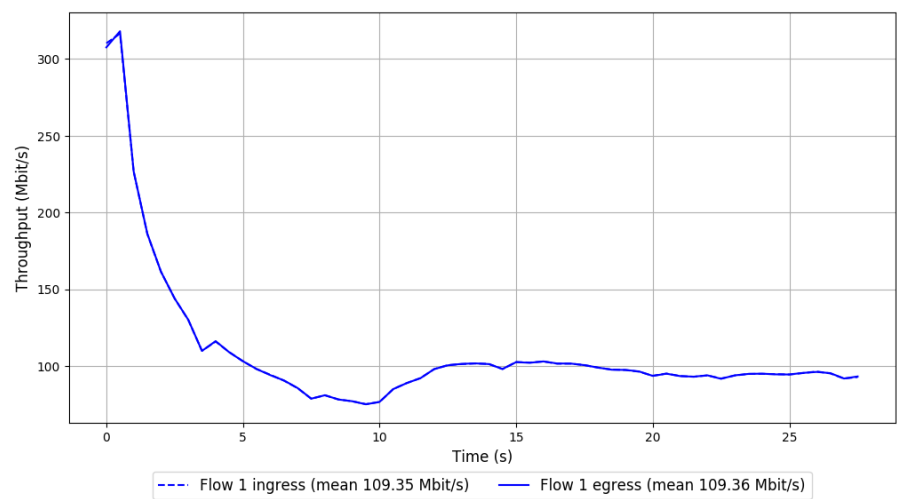
-- Flow 1:

Average throughput: 109.36 Mbit/s

95th percentile per-packet one-way delay: 2.244 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-12-11 14:10:52

End at: 2017-12-11 14:11:22

Local clock offset: -1.974 ms

Remote clock offset: 0.355 ms

Below is generated by plot.py at 2017-12-11 19:43:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 110.29 Mbit/s

95th percentile per-packet one-way delay: 2.333 ms

Loss rate: 0.00%

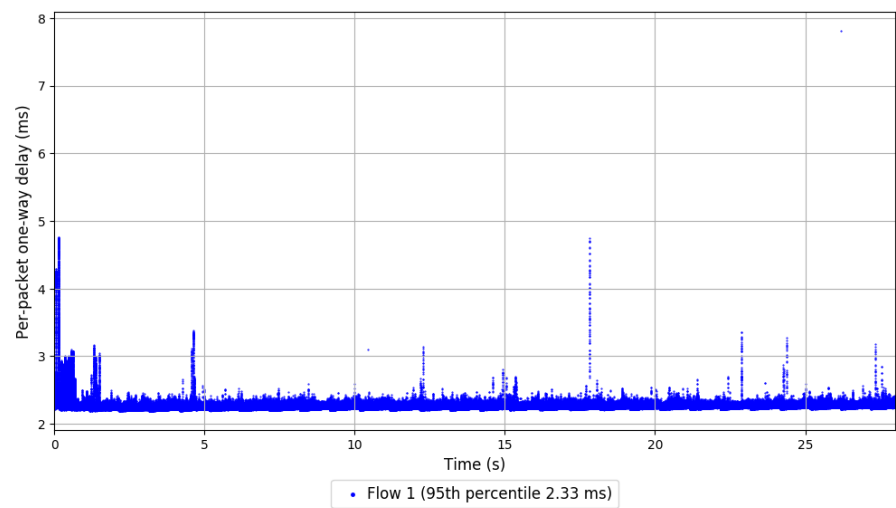
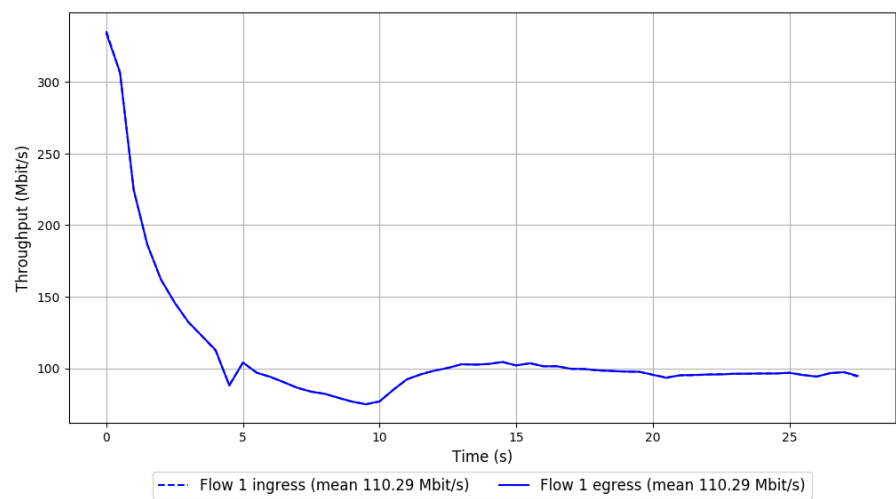
-- Flow 1:

Average throughput: 110.29 Mbit/s

95th percentile per-packet one-way delay: 2.333 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-12-11 14:29:02

End at: 2017-12-11 14:29:32

Local clock offset: -1.286 ms

Remote clock offset: 0.28 ms

Below is generated by plot.py at 2017-12-11 19:43:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 110.92 Mbit/s

95th percentile per-packet one-way delay: 2.283 ms

Loss rate: 0.00%

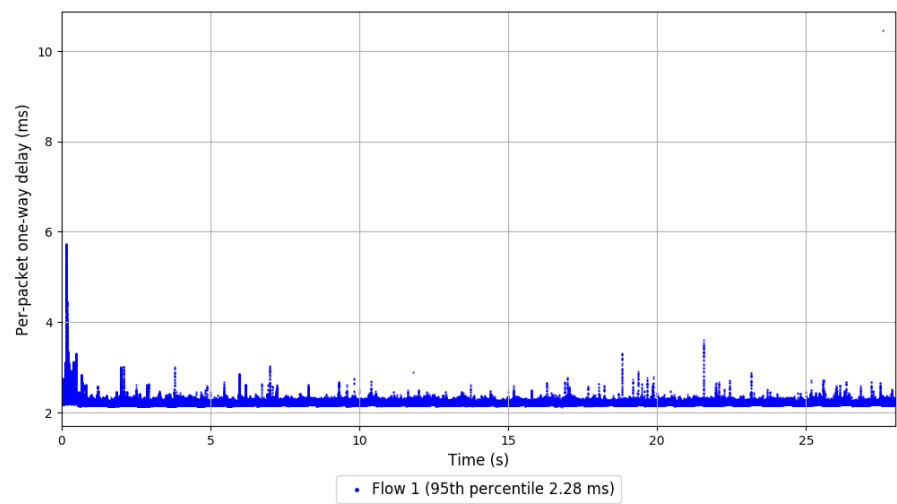
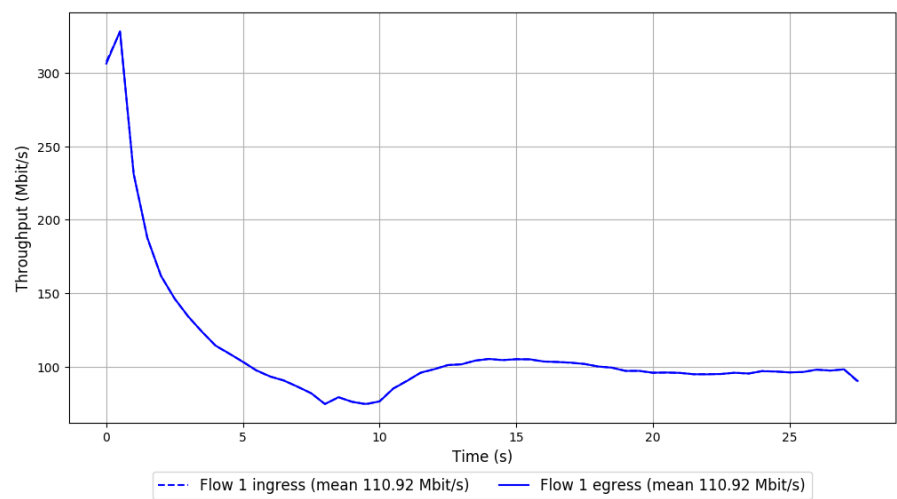
-- Flow 1:

Average throughput: 110.92 Mbit/s

95th percentile per-packet one-way delay: 2.283 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-12-11 14:47:16

End at: 2017-12-11 14:47:46

Local clock offset: -0.732 ms

Remote clock offset: 0.298 ms

Below is generated by plot.py at 2017-12-11 19:43:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 105.01 Mbit/s

95th percentile per-packet one-way delay: 2.261 ms

Loss rate: 0.00%

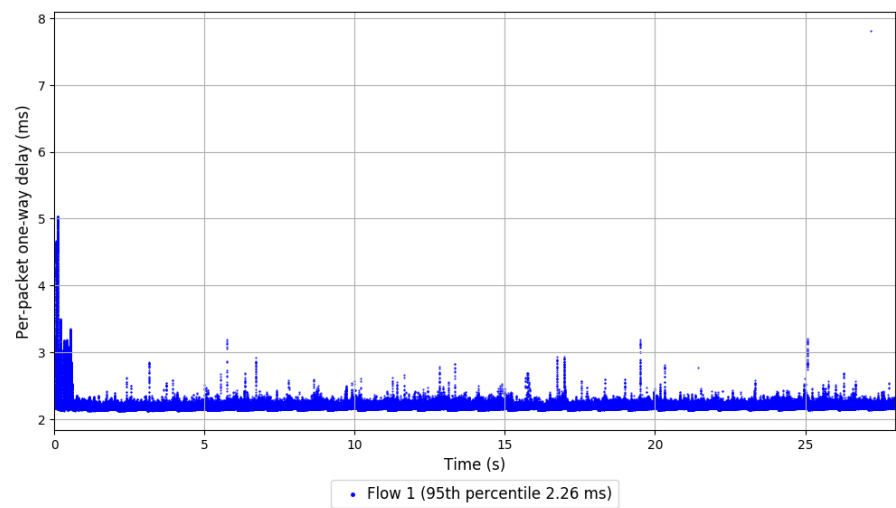
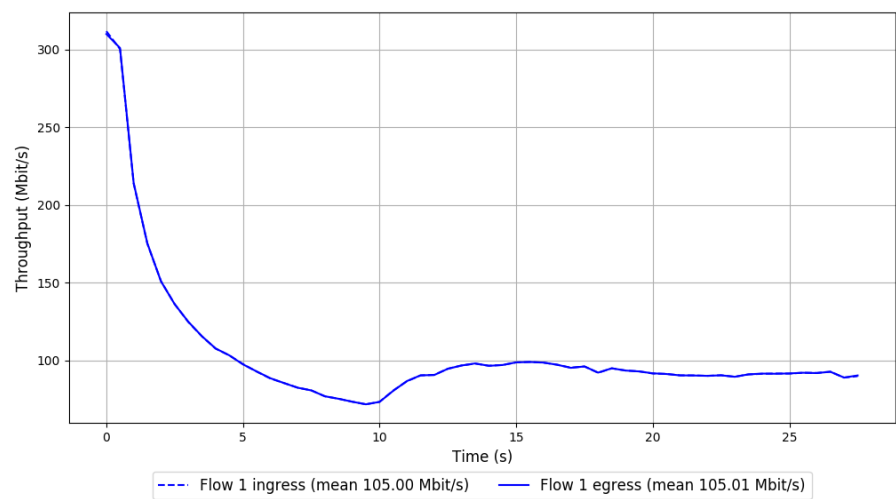
-- Flow 1:

Average throughput: 105.01 Mbit/s

95th percentile per-packet one-way delay: 2.261 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link

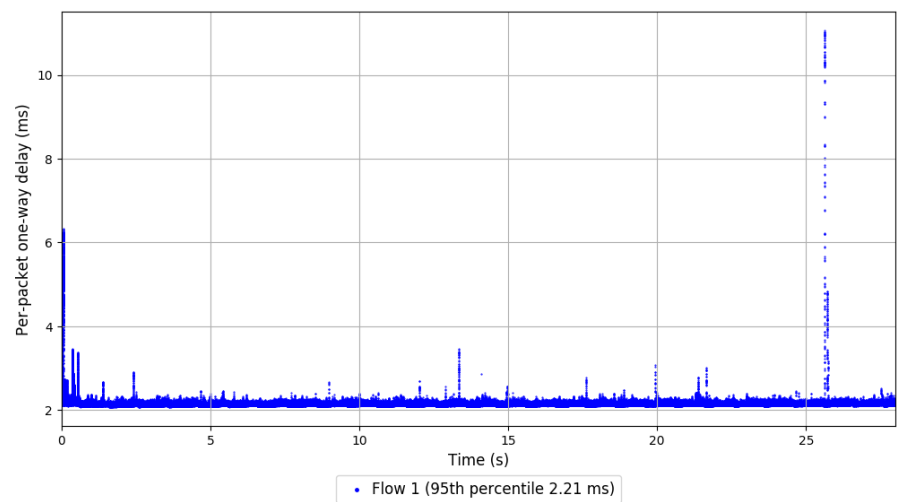
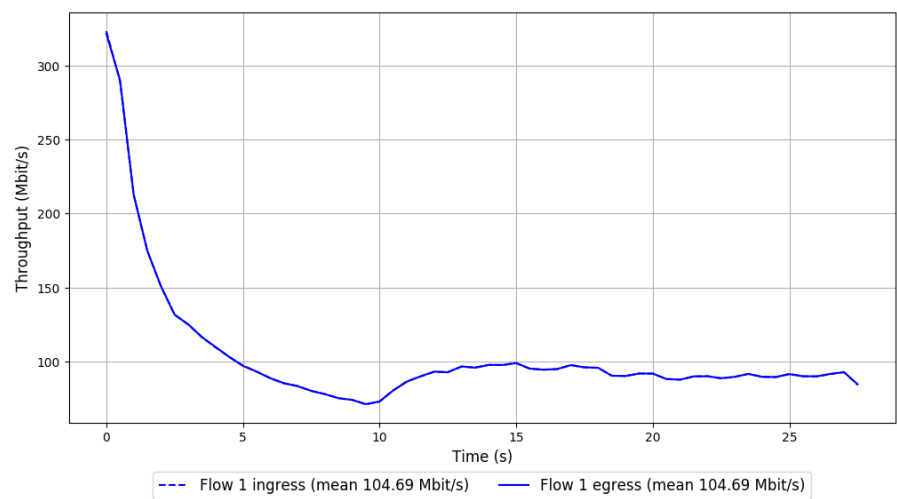


Run 5: Statistics of Copa

Start at: 2017-12-11 15:05:20
End at: 2017-12-11 15:05:50
Local clock offset: -0.247 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2017-12-11 19:43:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 104.69 Mbit/s
95th percentile per-packet one-way delay: 2.207 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 104.69 Mbit/s
95th percentile per-packet one-way delay: 2.207 ms
Loss rate: 0.00%

Run 5: Report of Copa — Data Link

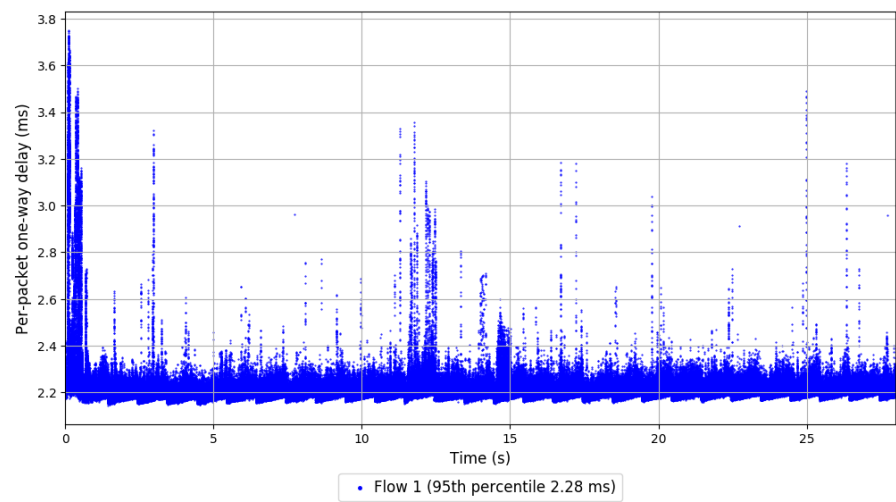
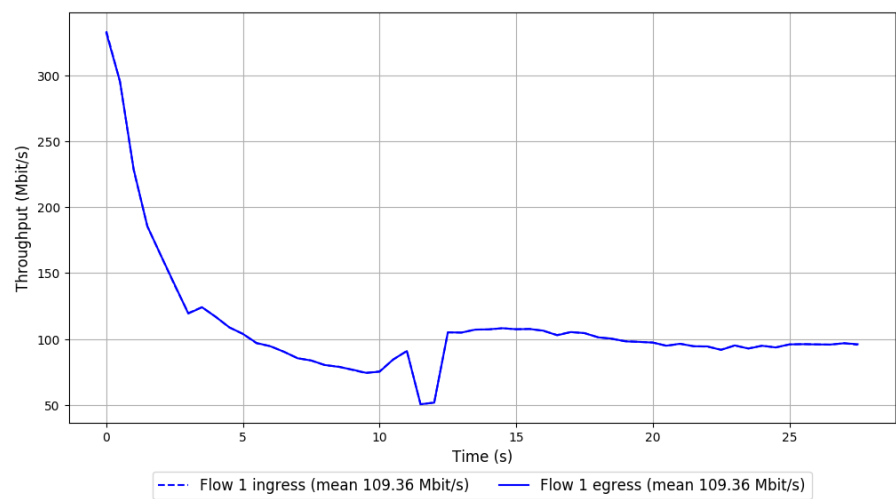


Run 6: Statistics of Copa

Start at: 2017-12-11 15:23:23
End at: 2017-12-11 15:23:53
Local clock offset: 0.198 ms
Remote clock offset: -0.149 ms

Below is generated by plot.py at 2017-12-11 19:43:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 109.36 Mbit/s
95th percentile per-packet one-way delay: 2.279 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 109.36 Mbit/s
95th percentile per-packet one-way delay: 2.279 ms
Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-12-11 15:41:31

End at: 2017-12-11 15:42:01

Local clock offset: 0.67 ms

Remote clock offset: -0.33 ms

Below is generated by plot.py at 2017-12-11 19:43:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 111.19 Mbit/s

95th percentile per-packet one-way delay: 2.190 ms

Loss rate: 0.00%

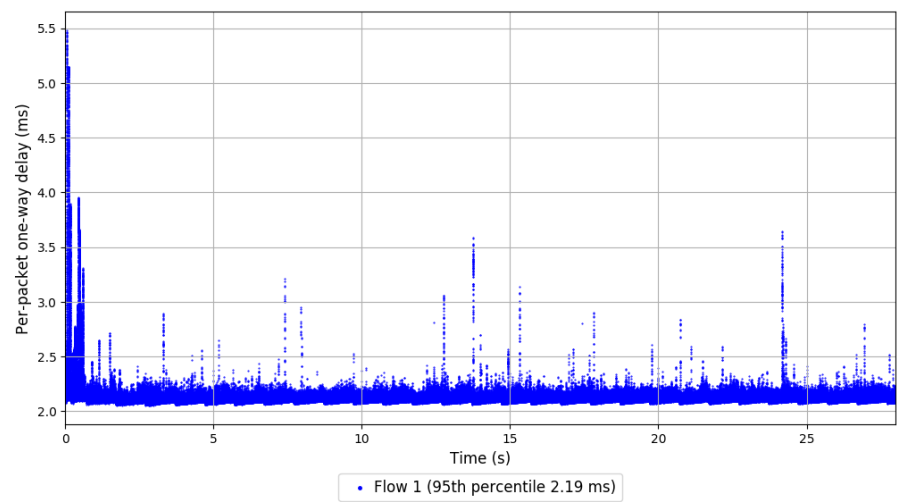
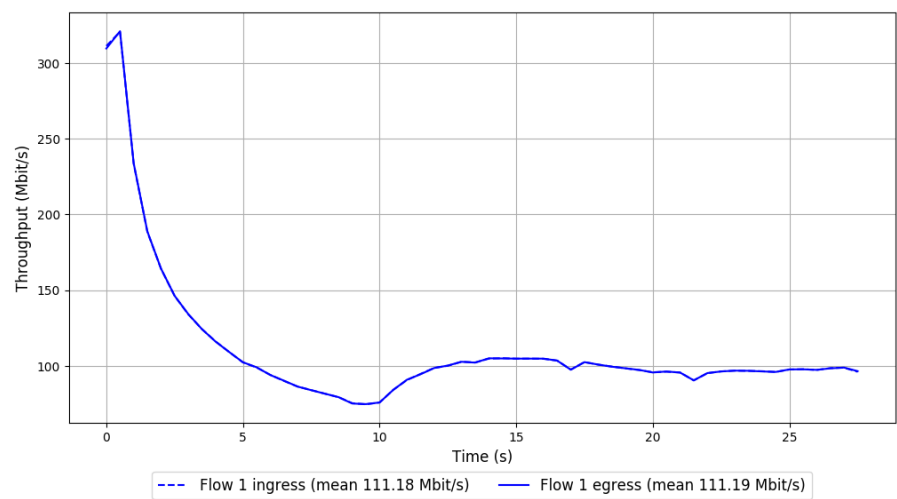
-- Flow 1:

Average throughput: 111.19 Mbit/s

95th percentile per-packet one-way delay: 2.190 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link

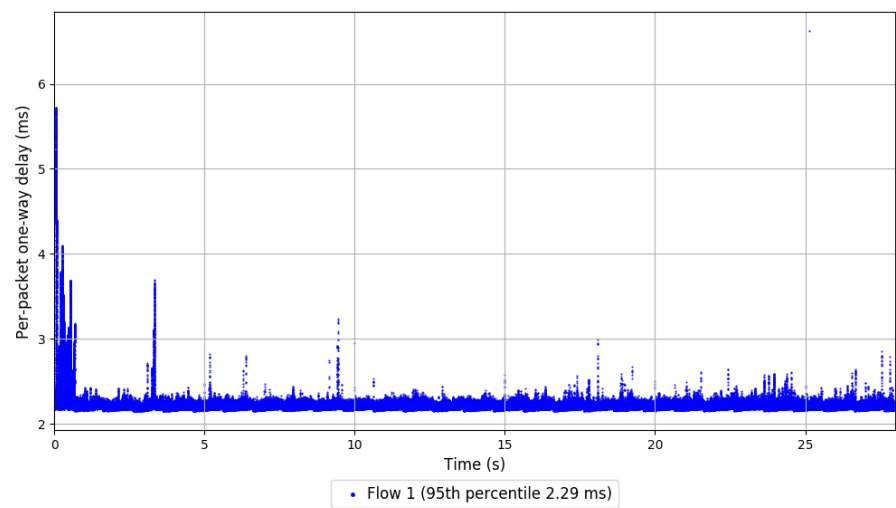
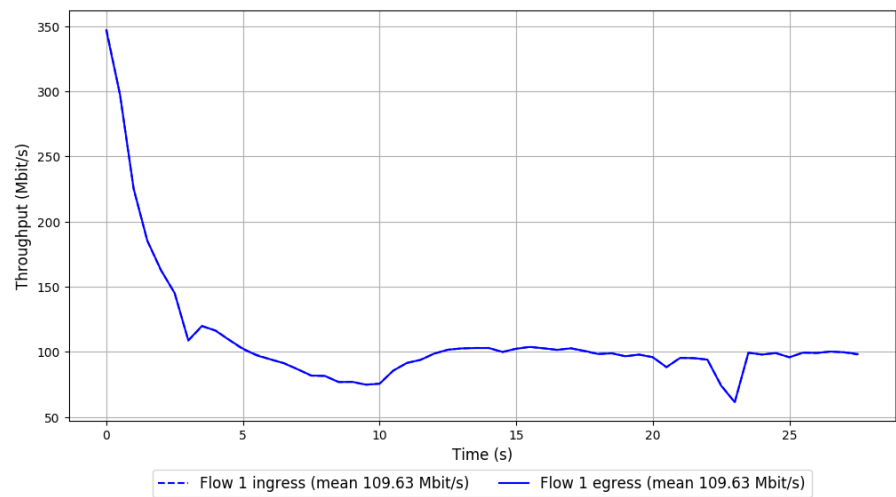


Run 8: Statistics of Copa

Start at: 2017-12-11 15:59:36
End at: 2017-12-11 16:00:06
Local clock offset: 0.879 ms
Remote clock offset: -0.295 ms

Below is generated by plot.py at 2017-12-11 19:43:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 109.63 Mbit/s
95th percentile per-packet one-way delay: 2.285 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 109.63 Mbit/s
95th percentile per-packet one-way delay: 2.285 ms
Loss rate: 0.00%

Run 8: Report of Copa — Data Link

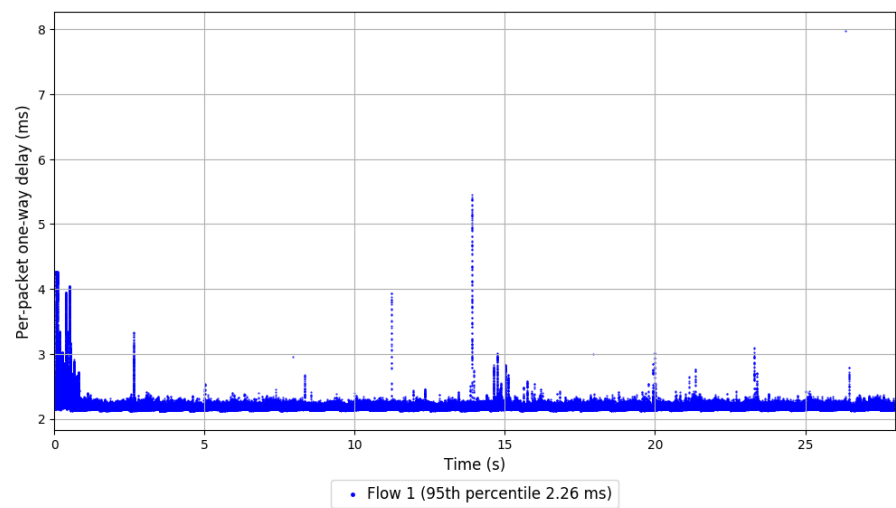
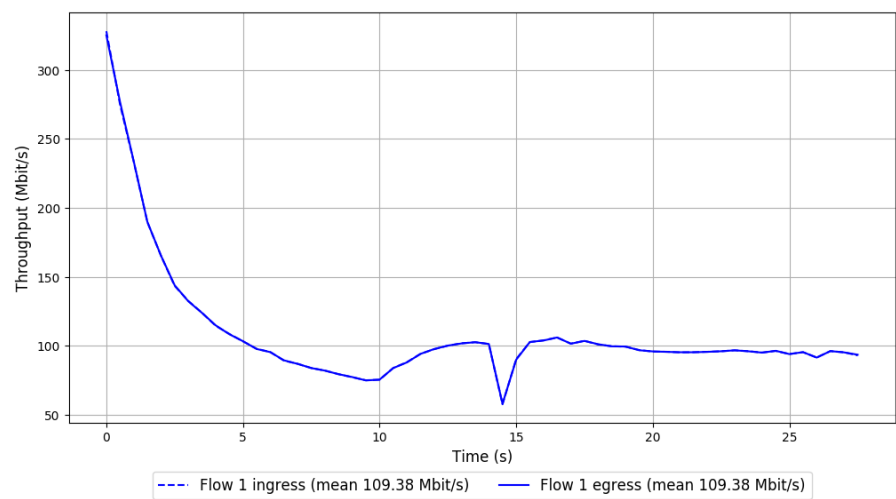


Run 9: Statistics of Copa

Start at: 2017-12-11 16:17:48
End at: 2017-12-11 16:18:18
Local clock offset: 1.056 ms
Remote clock offset: -0.278 ms

Below is generated by plot.py at 2017-12-11 19:43:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 109.38 Mbit/s
95th percentile per-packet one-way delay: 2.261 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 109.38 Mbit/s
95th percentile per-packet one-way delay: 2.261 ms
Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-12-11 16:35:53

End at: 2017-12-11 16:36:23

Local clock offset: 1.186 ms

Remote clock offset: -0.252 ms

Below is generated by plot.py at 2017-12-11 19:43:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 109.30 Mbit/s

95th percentile per-packet one-way delay: 2.244 ms

Loss rate: 0.00%

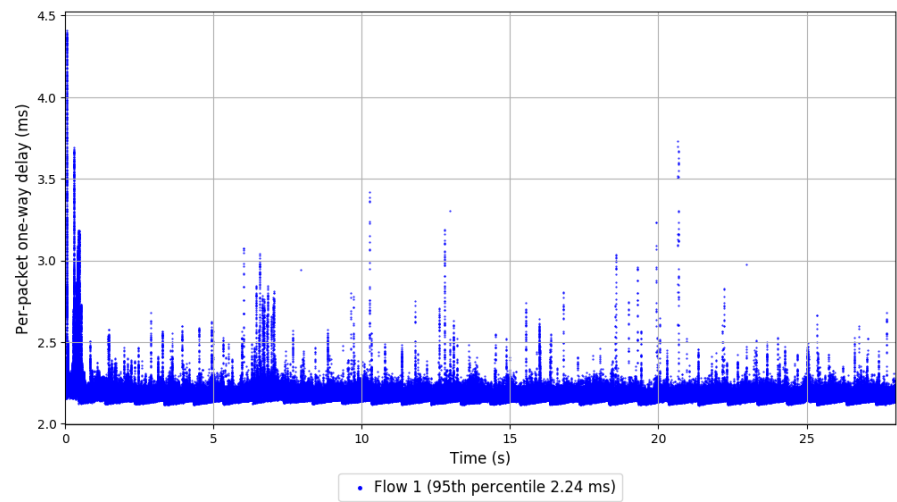
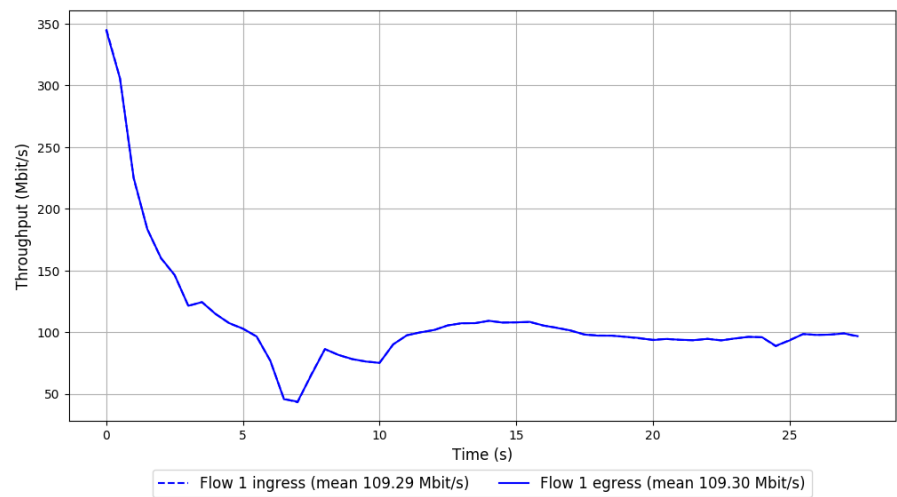
-- Flow 1:

Average throughput: 109.30 Mbit/s

95th percentile per-packet one-way delay: 2.244 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

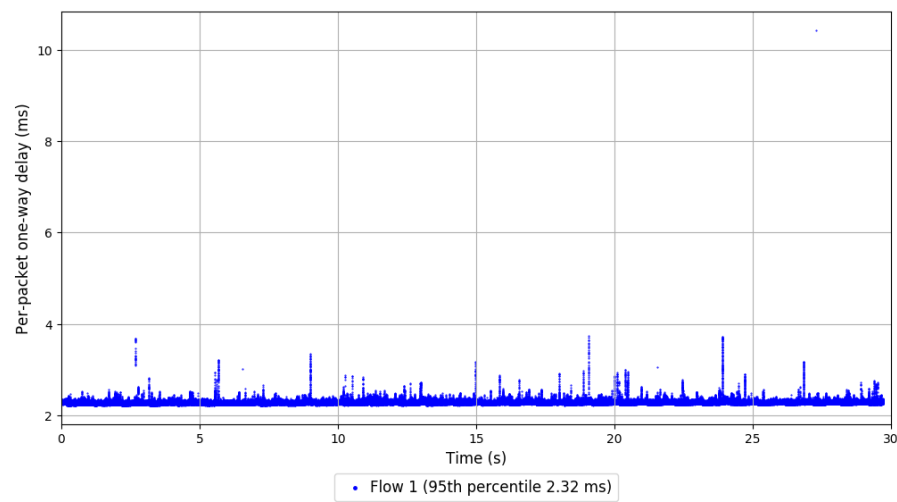
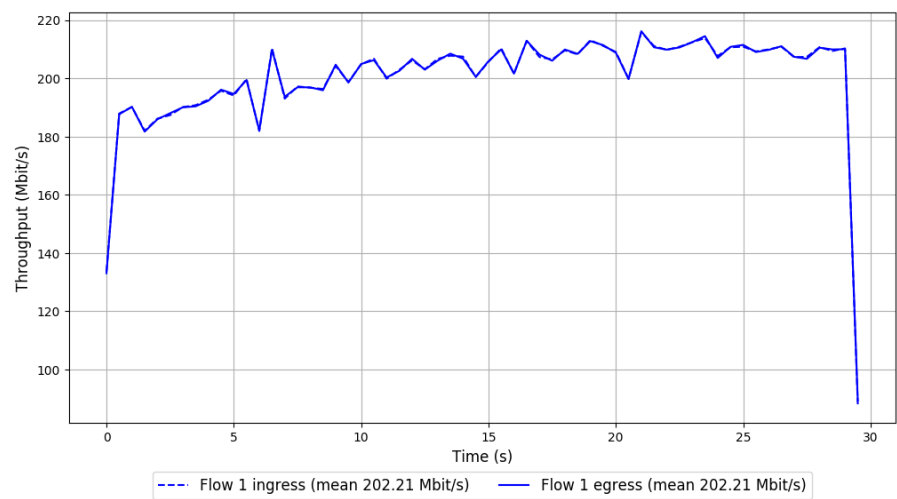


```
Run 1: Statistics of Indigo

Start at: 2017-12-11 14:07:12
End at: 2017-12-11 14:07:42
Local clock offset: -2.048 ms
Remote clock offset: 0.468 ms

# Below is generated by plot.py at 2017-12-11 19:44:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 202.21 Mbit/s
95th percentile per-packet one-way delay: 2.316 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 202.21 Mbit/s
95th percentile per-packet one-way delay: 2.316 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-12-11 14:25:23

End at: 2017-12-11 14:25:53

Local clock offset: -1.406 ms

Remote clock offset: 0.267 ms

Below is generated by plot.py at 2017-12-11 19:45:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.63 Mbit/s

95th percentile per-packet one-way delay: 2.691 ms

Loss rate: 0.00%

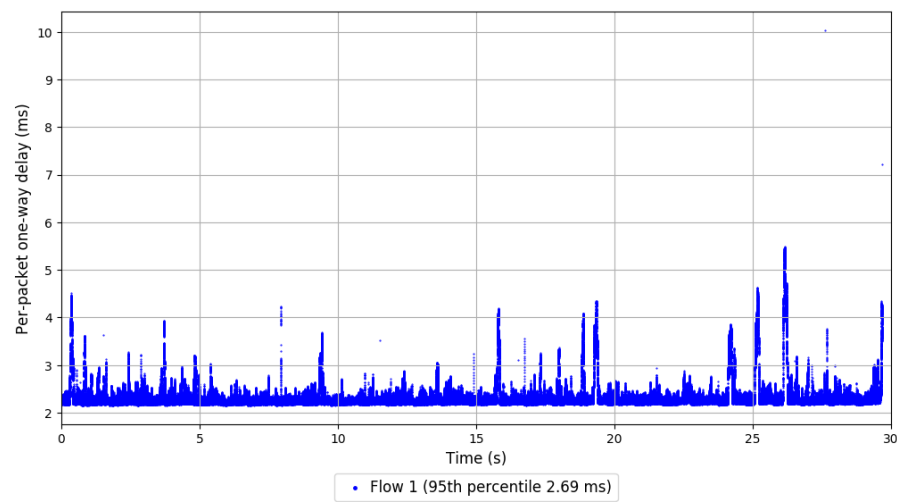
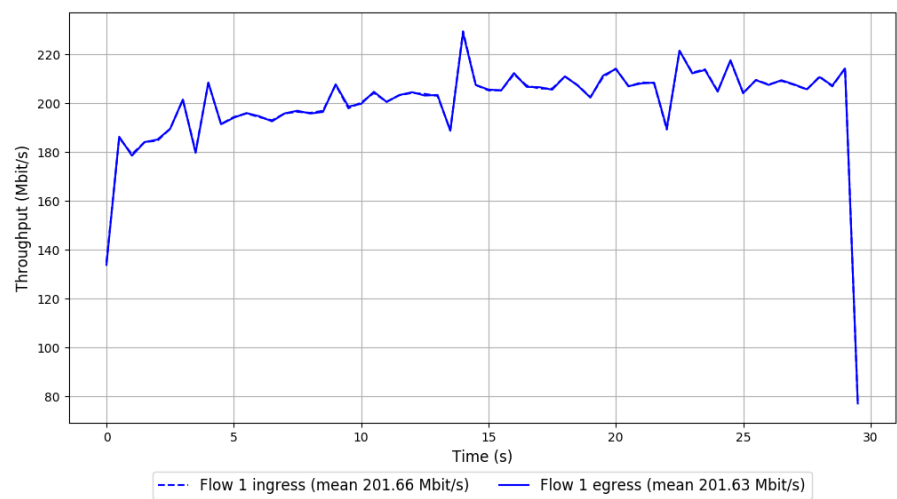
-- Flow 1:

Average throughput: 201.63 Mbit/s

95th percentile per-packet one-way delay: 2.691 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-12-11 14:43:35

End at: 2017-12-11 14:44:05

Local clock offset: -0.92 ms

Remote clock offset: 0.288 ms

Below is generated by plot.py at 2017-12-11 19:45:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.25 Mbit/s

95th percentile per-packet one-way delay: 2.311 ms

Loss rate: 0.00%

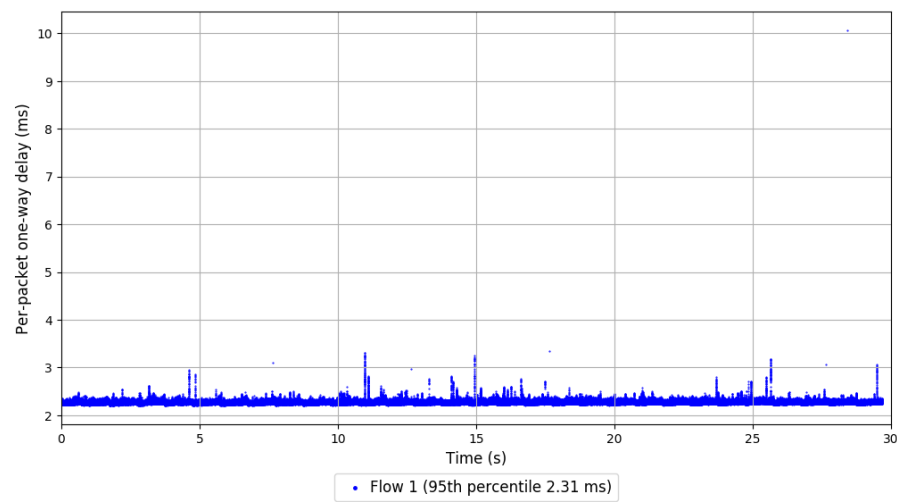
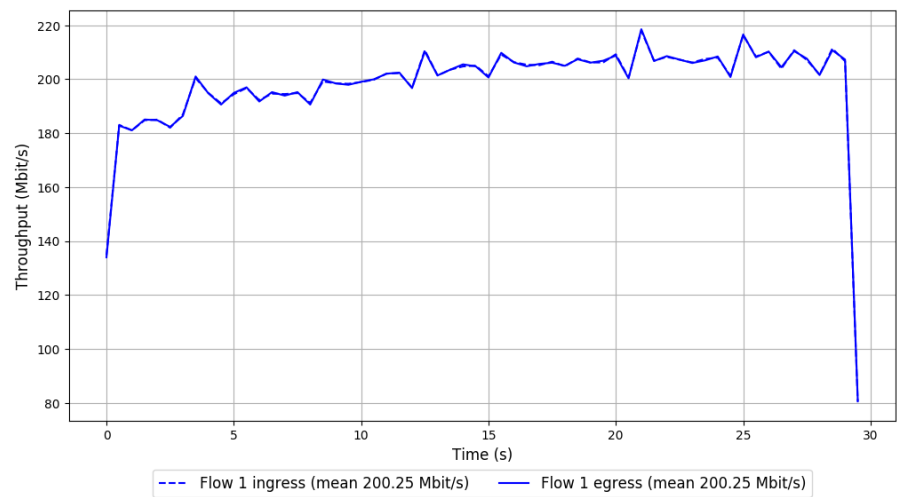
-- Flow 1:

Average throughput: 200.25 Mbit/s

95th percentile per-packet one-way delay: 2.311 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-12-11 15:01:36

End at: 2017-12-11 15:02:06

Local clock offset: -0.318 ms

Remote clock offset: 0.073 ms

Below is generated by plot.py at 2017-12-11 19:46:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.57 Mbit/s

95th percentile per-packet one-way delay: 2.244 ms

Loss rate: 0.00%

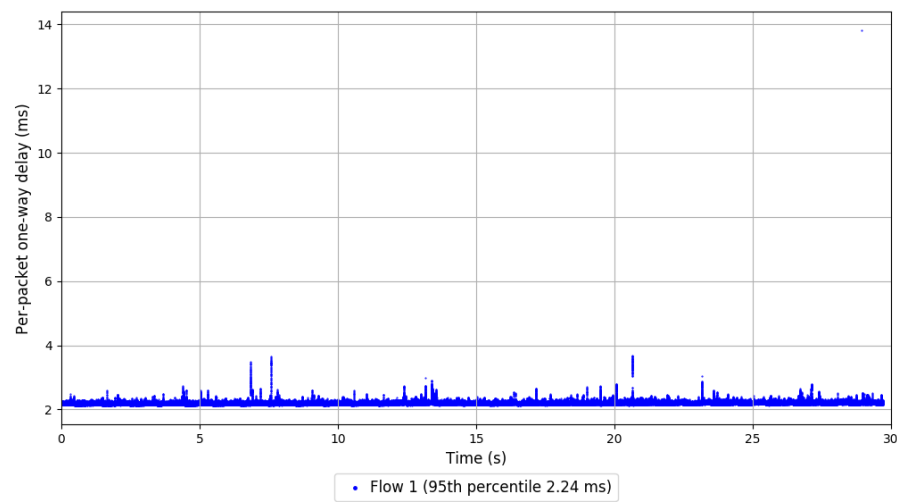
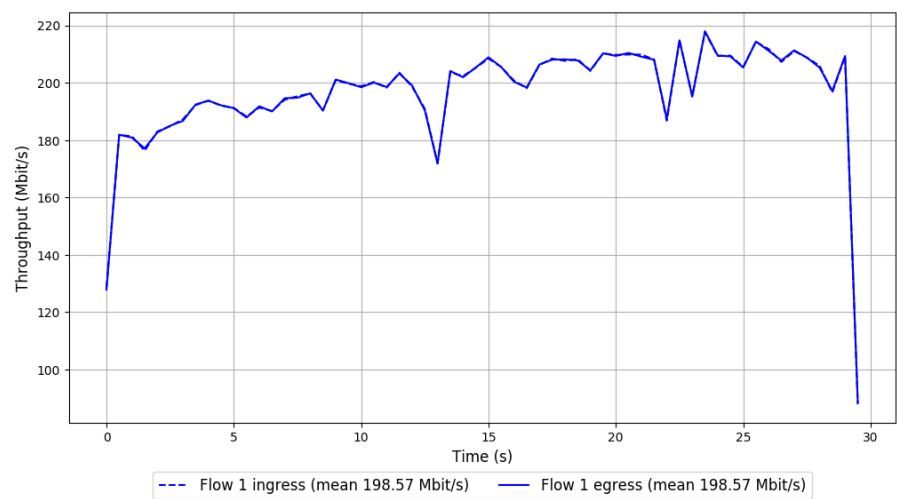
-- Flow 1:

Average throughput: 198.57 Mbit/s

95th percentile per-packet one-way delay: 2.244 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link

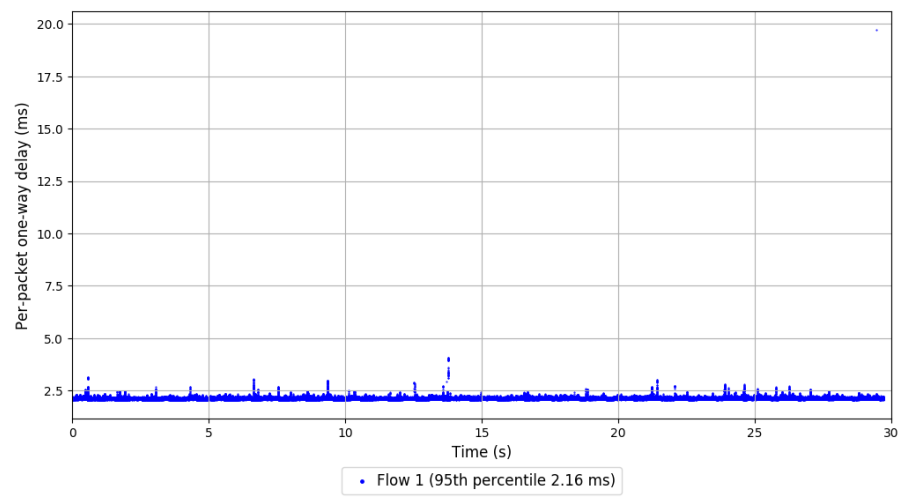
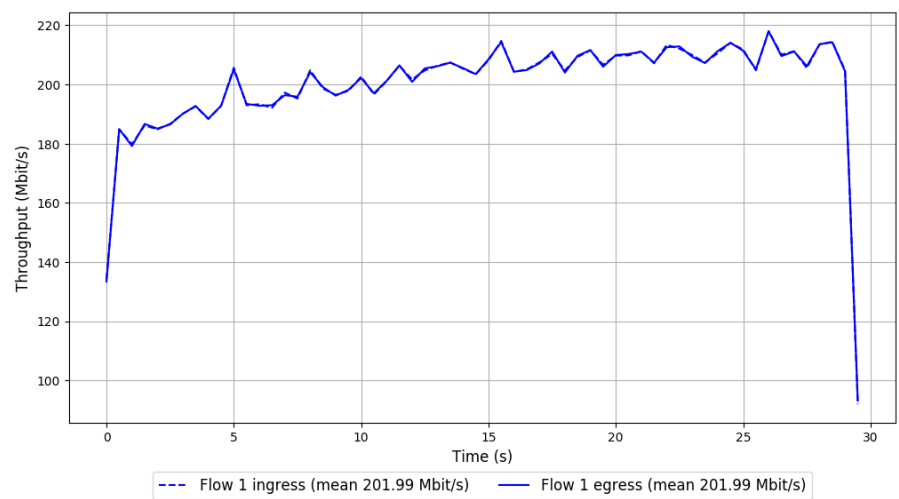


Run 5: Statistics of Indigo

Start at: 2017-12-11 15:19:43
End at: 2017-12-11 15:20:13
Local clock offset: 0.138 ms
Remote clock offset: -0.197 ms

Below is generated by plot.py at 2017-12-11 19:46:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 201.99 Mbit/s
95th percentile per-packet one-way delay: 2.164 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 201.99 Mbit/s
95th percentile per-packet one-way delay: 2.164 ms
Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

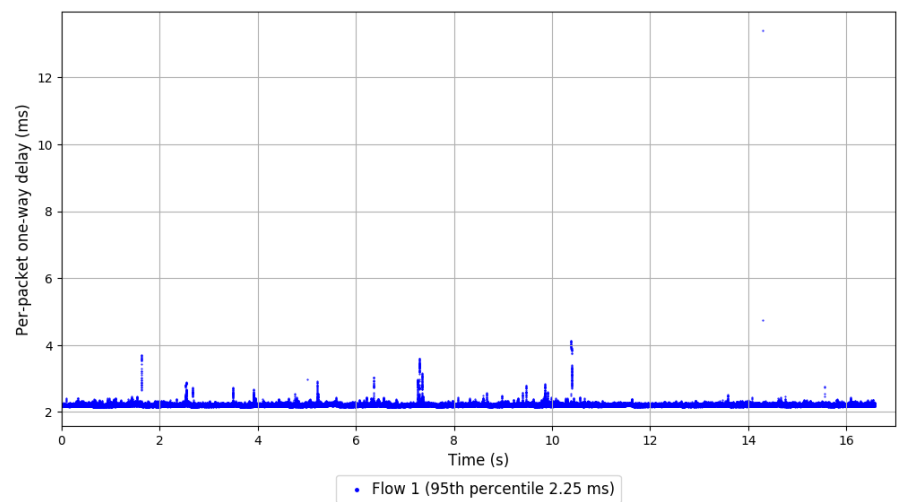
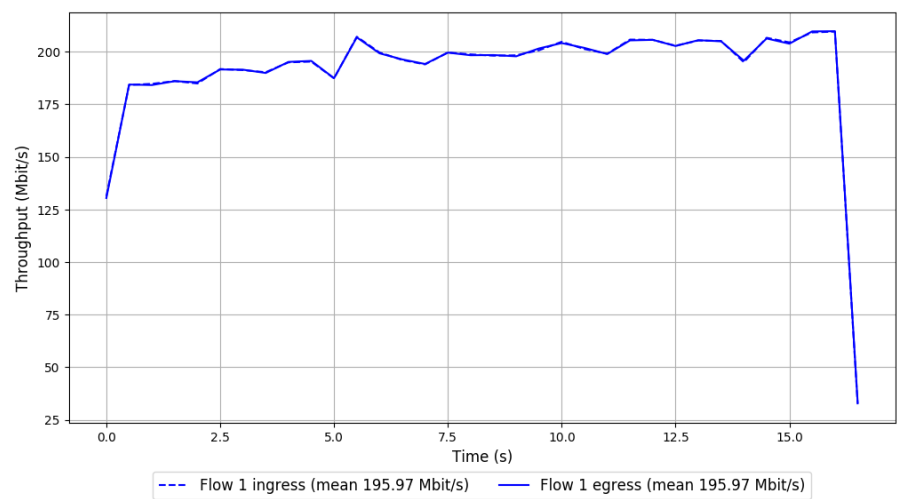
Start at: 2017-12-11 15:37:58

End at: 2017-12-11 15:38:28

Local clock offset: 0.577 ms

Remote clock offset: -0.262 ms

Run 6: Report of Indigo — Data Link

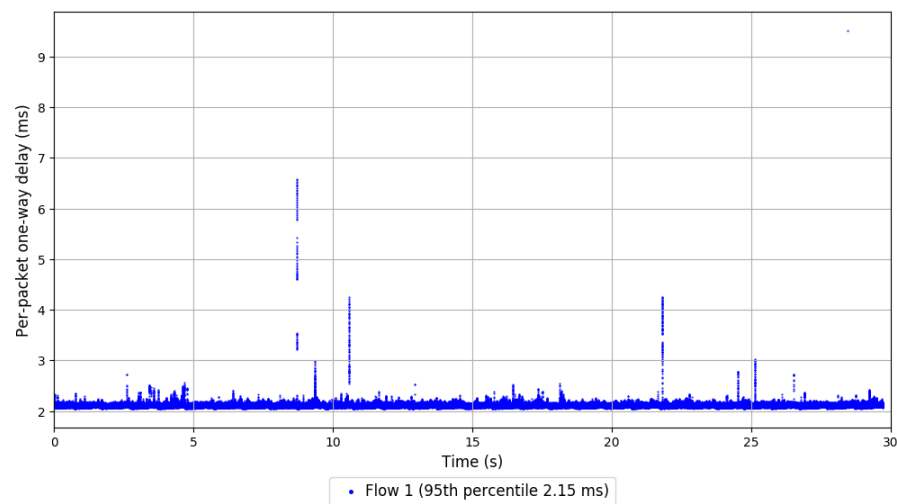
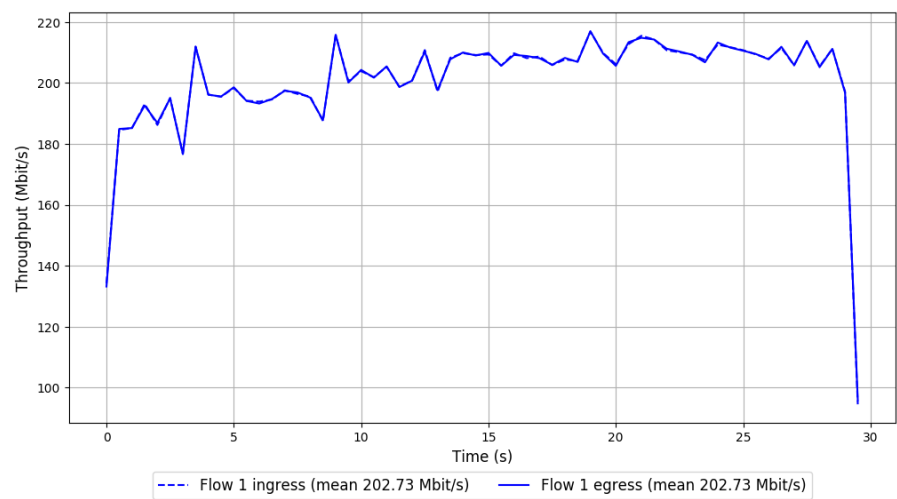


Run 7: Statistics of Indigo

Start at: 2017-12-11 15:55:59
End at: 2017-12-11 15:56:29
Local clock offset: 0.86 ms
Remote clock offset: -0.398 ms

Below is generated by plot.py at 2017-12-11 19:46:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 202.73 Mbit/s
95th percentile per-packet one-way delay: 2.148 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 202.73 Mbit/s
95th percentile per-packet one-way delay: 2.148 ms
Loss rate: 0.00%

Run 7: Report of Indigo — Data Link

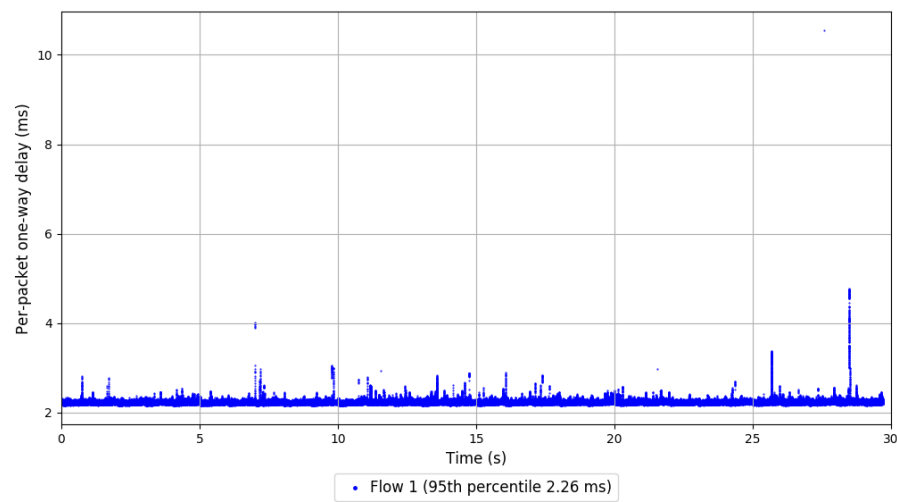
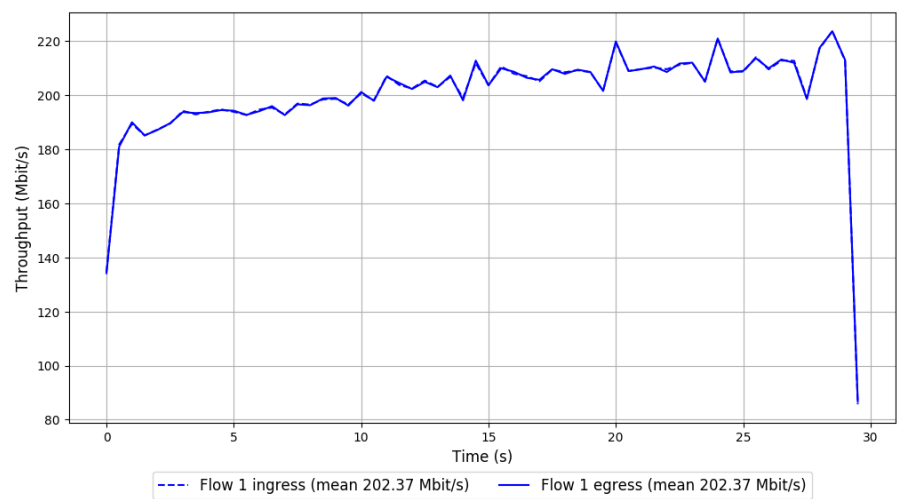


Run 8: Statistics of Indigo

Start at: 2017-12-11 16:14:02
End at: 2017-12-11 16:14:32
Local clock offset: 0.933 ms
Remote clock offset: -0.338 ms

Below is generated by plot.py at 2017-12-11 19:46:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 202.37 Mbit/s
95th percentile per-packet one-way delay: 2.261 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 202.37 Mbit/s
95th percentile per-packet one-way delay: 2.261 ms
Loss rate: 0.00%

Run 8: Report of Indigo — Data Link

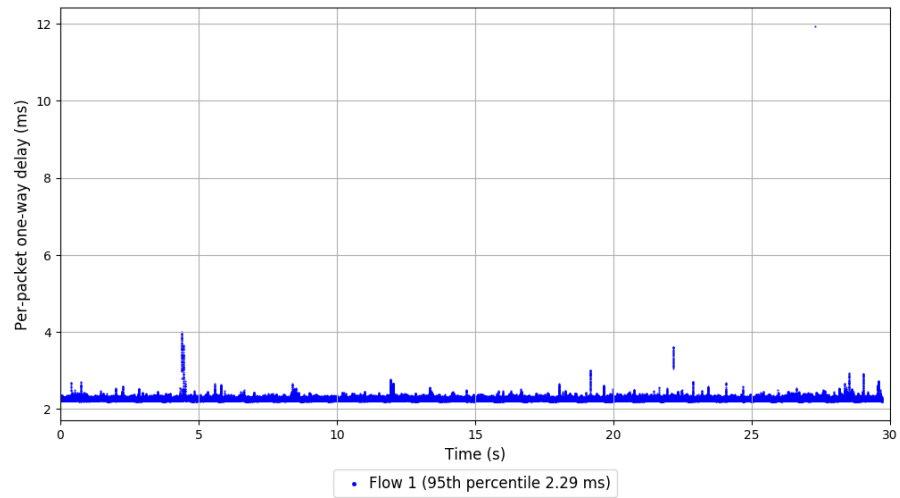
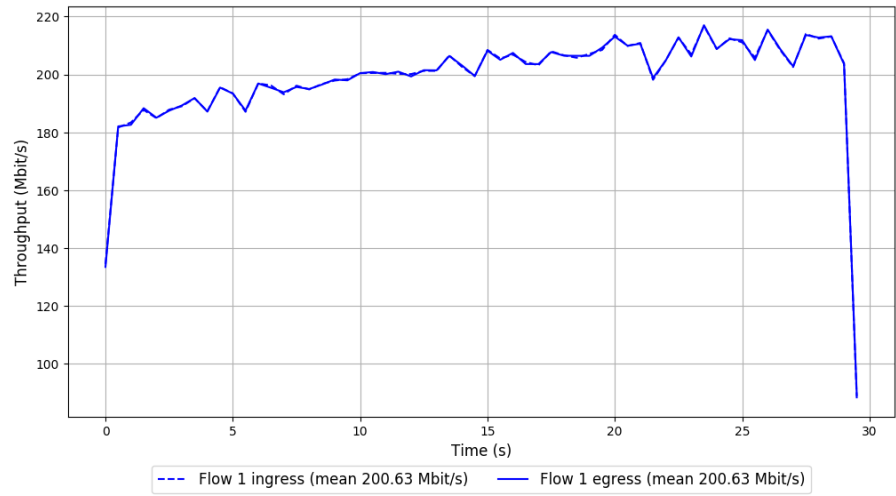


Run 9: Statistics of Indigo

Start at: 2017-12-11 16:32:15
End at: 2017-12-11 16:32:45
Local clock offset: 1.139 ms
Remote clock offset: -0.262 ms

Below is generated by plot.py at 2017-12-11 19:46:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 200.63 Mbit/s
95th percentile per-packet one-way delay: 2.289 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 200.63 Mbit/s
95th percentile per-packet one-way delay: 2.289 ms
Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-12-11 16:50:18

End at: 2017-12-11 16:50:48

Local clock offset: 1.134 ms

Remote clock offset: -0.298 ms

Below is generated by plot.py at 2017-12-11 19:47:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.76 Mbit/s

95th percentile per-packet one-way delay: 2.185 ms

Loss rate: 0.00%

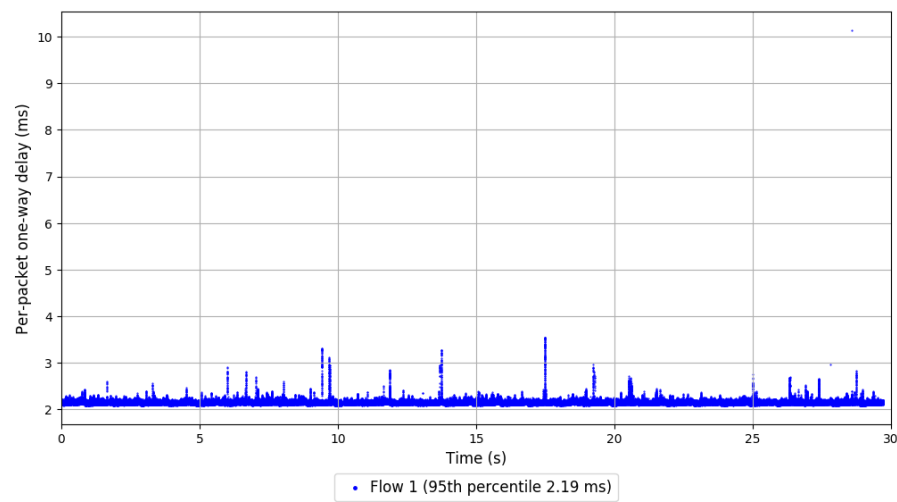
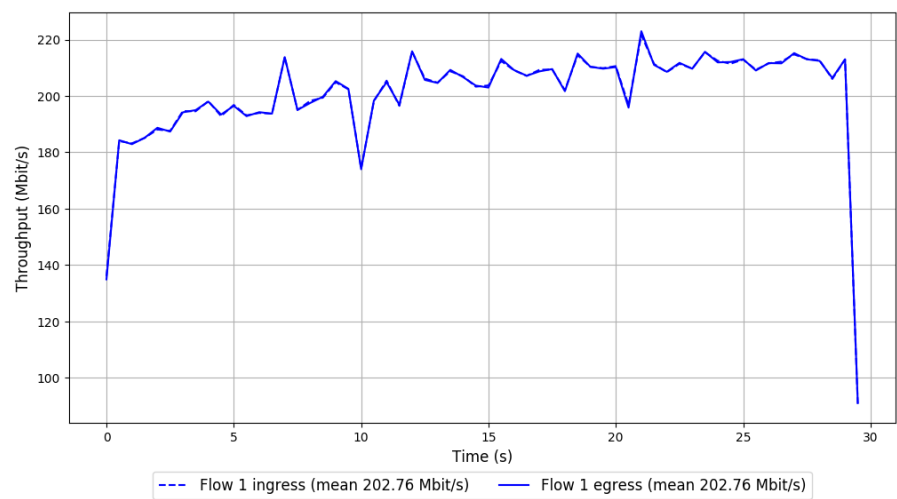
-- Flow 1:

Average throughput: 202.76 Mbit/s

95th percentile per-packet one-way delay: 2.185 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

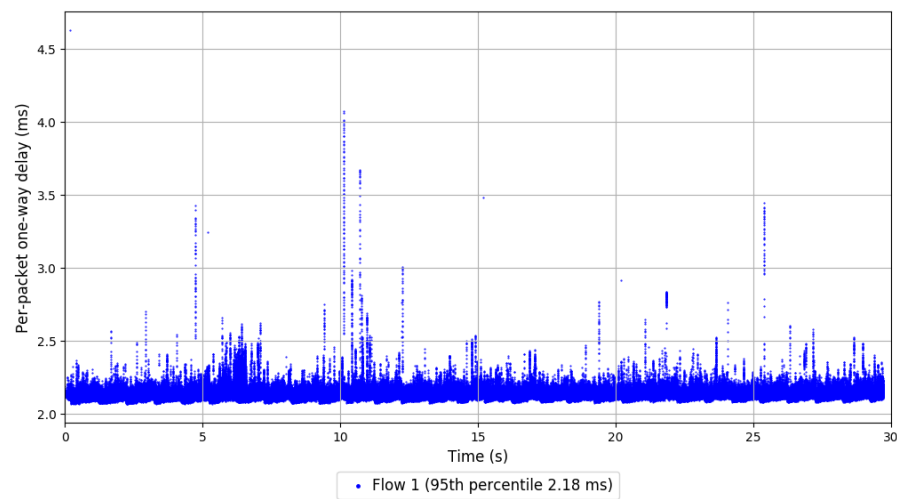
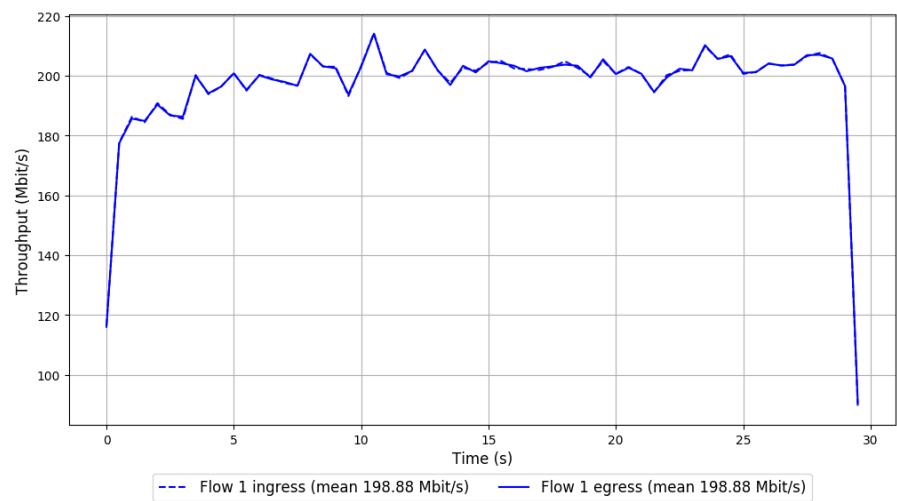


```
Run 1: Statistics of Indigo-calib

Start at: 2017-12-11 13:55:33
End at: 2017-12-11 13:56:03
Local clock offset: -2.063 ms
Remote clock offset: 0.657 ms

# Below is generated by plot.py at 2017-12-11 19:47:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 198.88 Mbit/s
95th percentile per-packet one-way delay: 2.184 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 198.88 Mbit/s
95th percentile per-packet one-way delay: 2.184 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-calib — Data Link

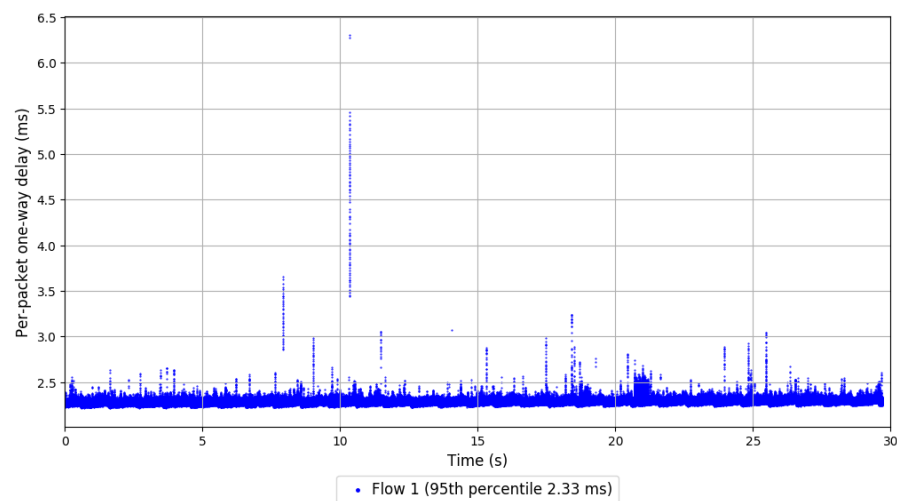
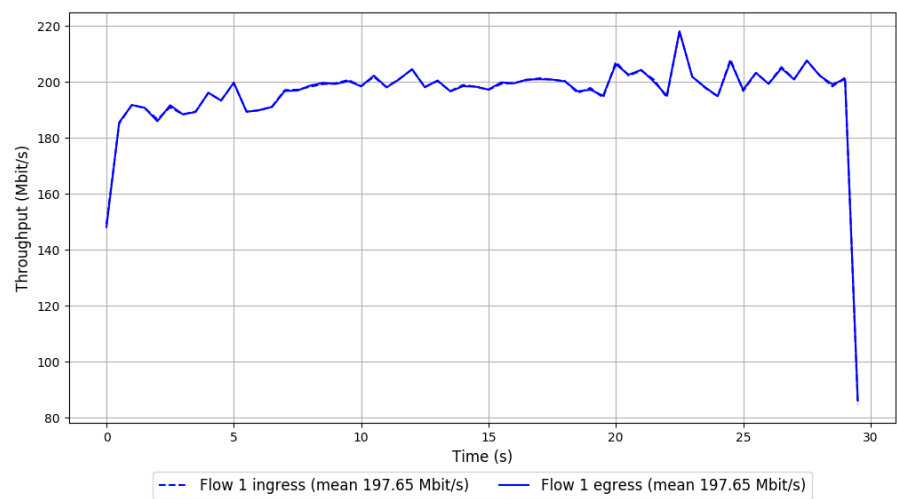


```
Run 2: Statistics of Indigo-calib

Start at: 2017-12-11 14:13:41
End at: 2017-12-11 14:14:11
Local clock offset: -1.894 ms
Remote clock offset: 0.304 ms

# Below is generated by plot.py at 2017-12-11 19:48:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 197.65 Mbit/s
95th percentile per-packet one-way delay: 2.327 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 197.65 Mbit/s
95th percentile per-packet one-way delay: 2.327 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-12-11 14:31:47

End at: 2017-12-11 14:32:17

Local clock offset: -1.19 ms

Remote clock offset: 0.295 ms

Below is generated by plot.py at 2017-12-11 19:48:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.03 Mbit/s

95th percentile per-packet one-way delay: 2.980 ms

Loss rate: 0.00%

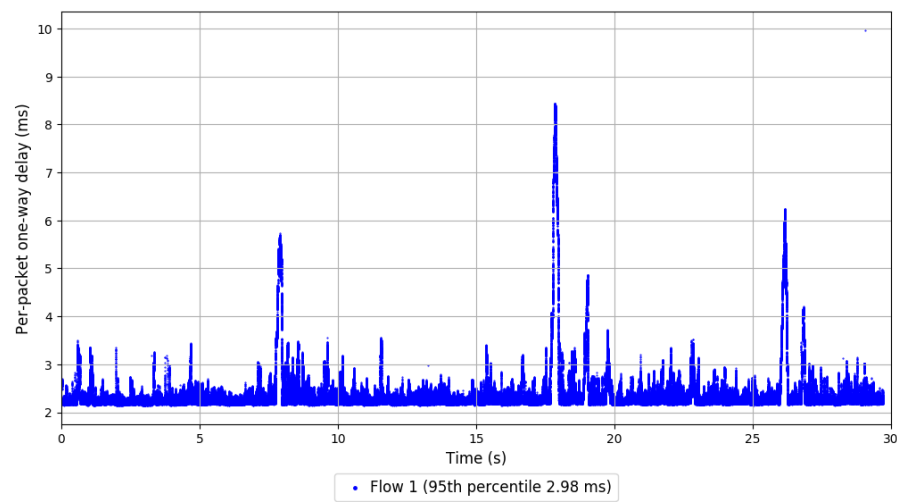
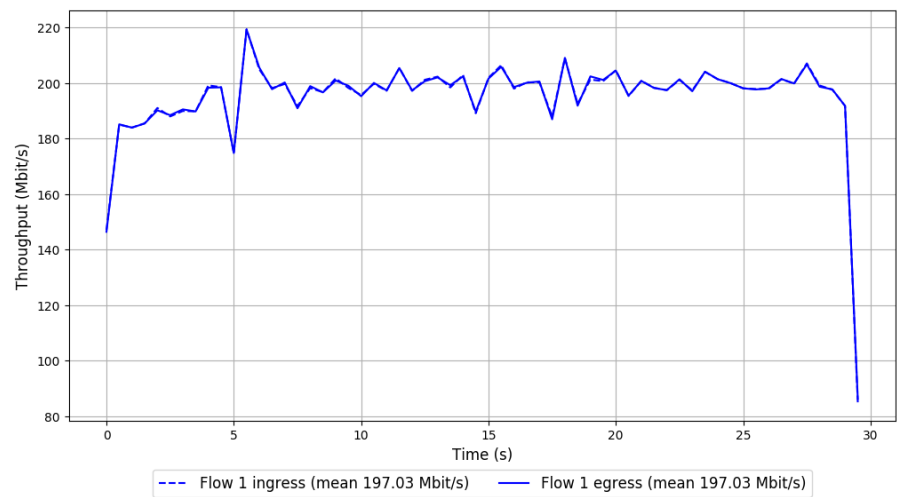
-- Flow 1:

Average throughput: 197.03 Mbit/s

95th percentile per-packet one-way delay: 2.980 ms

Loss rate: 0.00%

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-12-11 14:50:01

End at: 2017-12-11 14:50:31

Local clock offset: -0.658 ms

Remote clock offset: 0.257 ms

Below is generated by plot.py at 2017-12-11 19:48:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.39 Mbit/s

95th percentile per-packet one-way delay: 2.201 ms

Loss rate: 0.00%

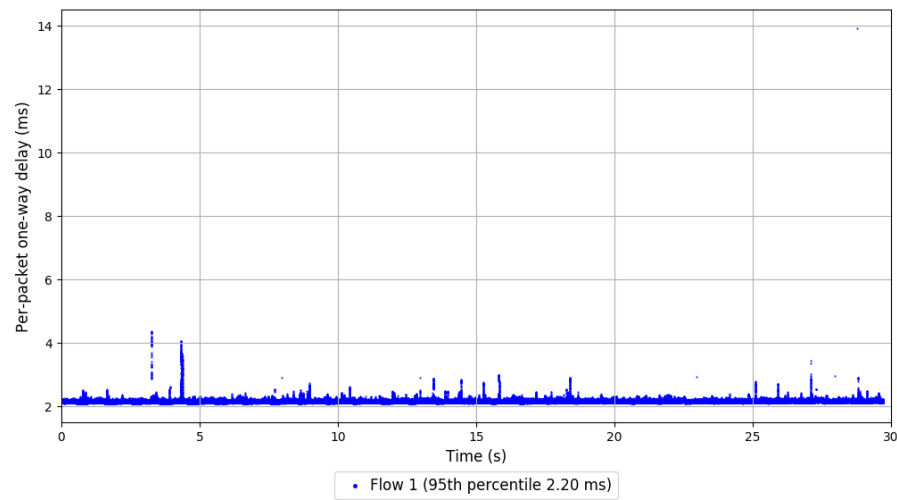
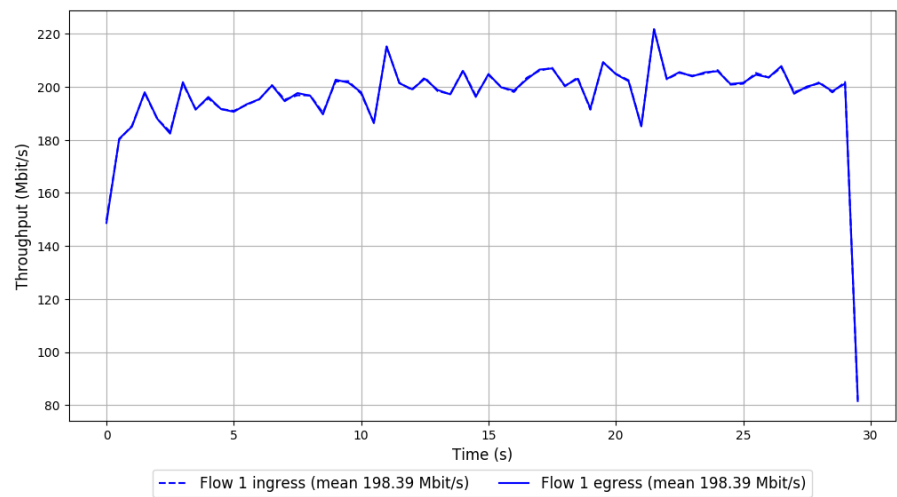
-- Flow 1:

Average throughput: 198.39 Mbit/s

95th percentile per-packet one-way delay: 2.201 ms

Loss rate: 0.00%

Run 4: Report of Indigo-calib — Data Link

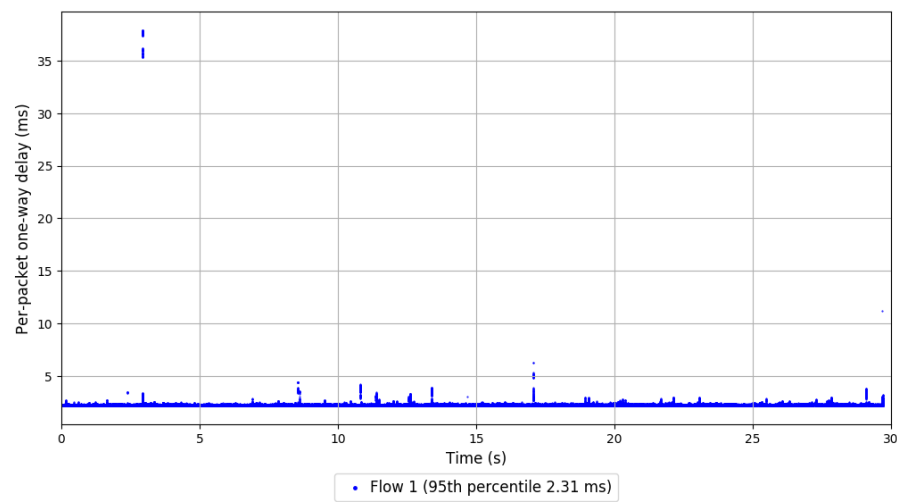
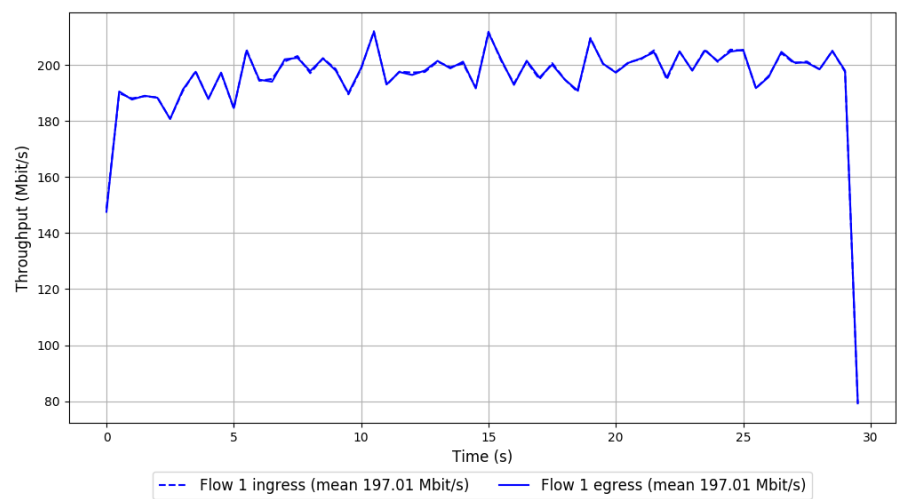


Run 5: Statistics of Indigo-calib

Start at: 2017-12-11 15:08:07
End at: 2017-12-11 15:08:37
Local clock offset: -0.259 ms
Remote clock offset: -0.047 ms

Below is generated by plot.py at 2017-12-11 19:49:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 197.01 Mbit/s
95th percentile per-packet one-way delay: 2.312 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 197.01 Mbit/s
95th percentile per-packet one-way delay: 2.312 ms
Loss rate: 0.00%

Run 5: Report of Indigo-calib — Data Link

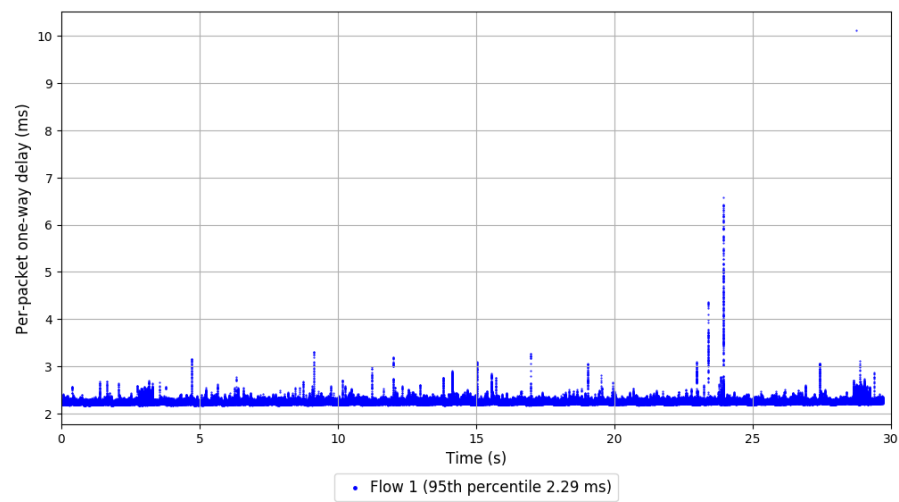
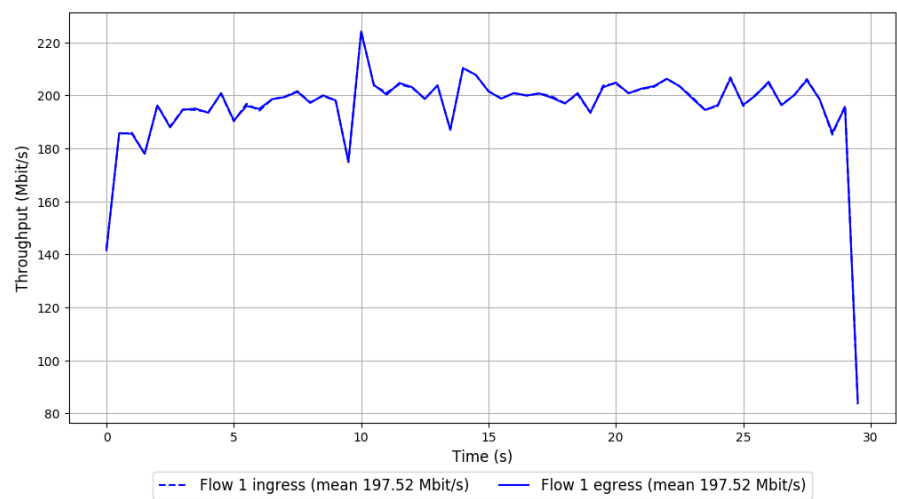


Run 6: Statistics of Indigo-calib

Start at: 2017-12-11 15:26:10
End at: 2017-12-11 15:26:40
Local clock offset: 0.257 ms
Remote clock offset: -0.157 ms

Below is generated by plot.py at 2017-12-11 19:49:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 197.52 Mbit/s
95th percentile per-packet one-way delay: 2.294 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 197.52 Mbit/s
95th percentile per-packet one-way delay: 2.294 ms
Loss rate: 0.00%

Run 6: Report of Indigo-calib — Data Link

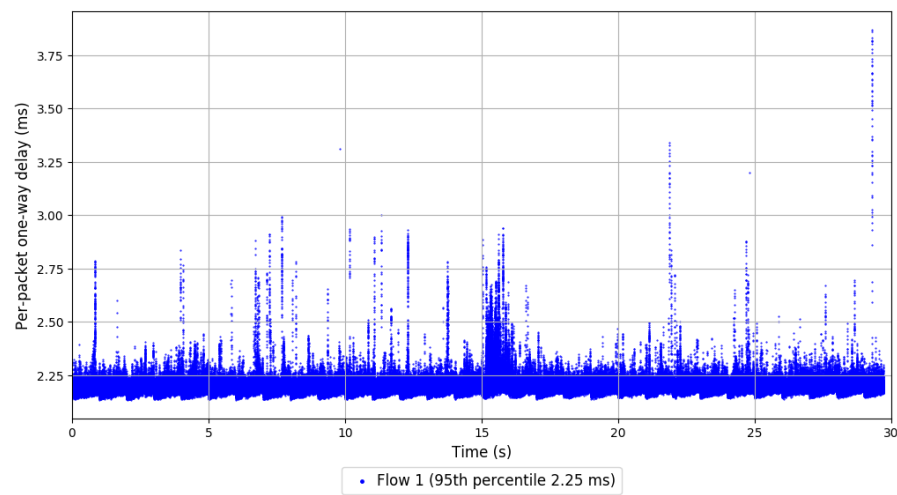
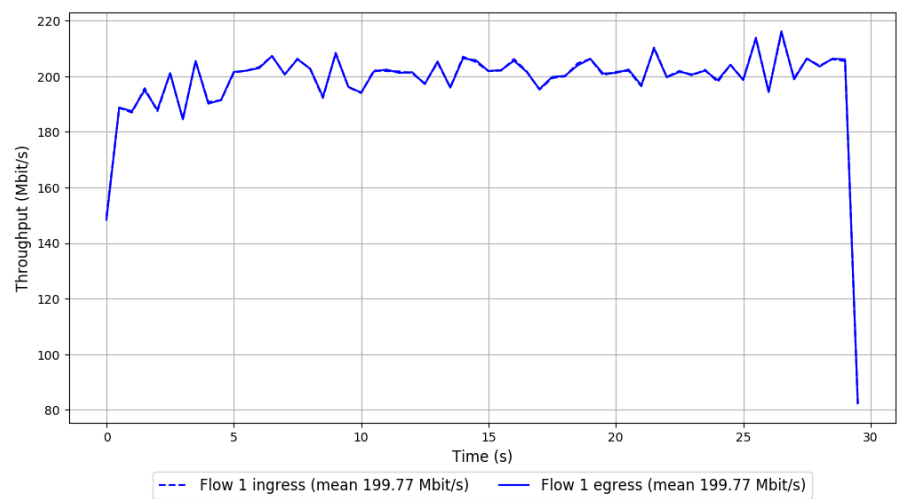


Run 7: Statistics of Indigo-calib

Start at: 2017-12-11 15:44:16
End at: 2017-12-11 15:44:46
Local clock offset: 0.684 ms
Remote clock offset: -0.299 ms

Below is generated by plot.py at 2017-12-11 19:49:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 199.77 Mbit/s
95th percentile per-packet one-way delay: 2.245 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 199.77 Mbit/s
95th percentile per-packet one-way delay: 2.245 ms
Loss rate: 0.00%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-12-11 16:02:22

End at: 2017-12-11 16:02:52

Local clock offset: 0.932 ms

Remote clock offset: -0.345 ms

Below is generated by plot.py at 2017-12-11 19:49:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.87 Mbit/s

95th percentile per-packet one-way delay: 2.160 ms

Loss rate: 0.00%

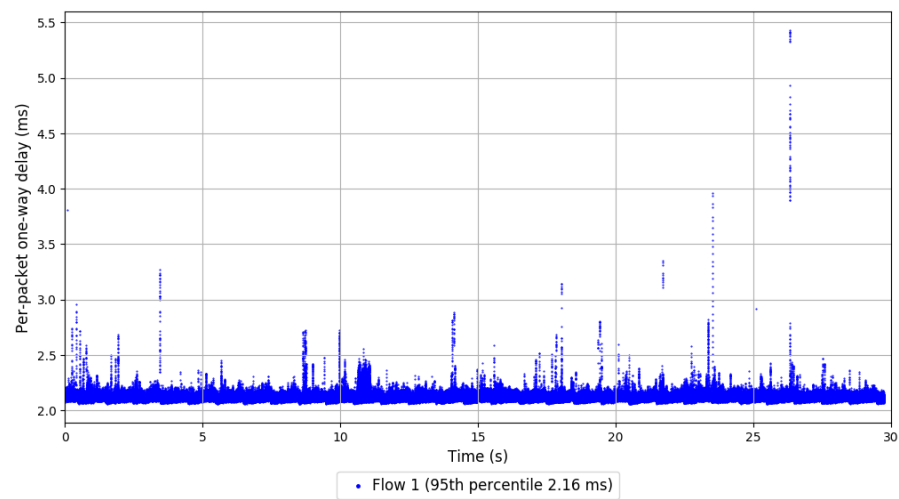
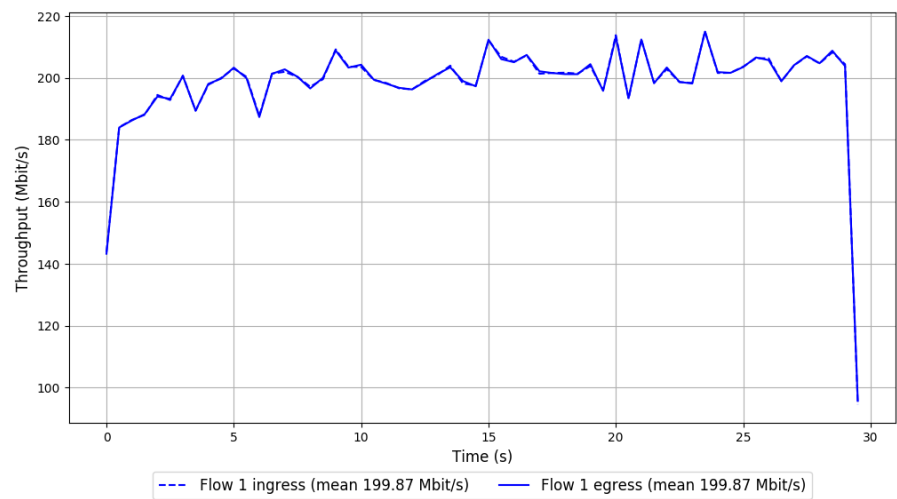
-- Flow 1:

Average throughput: 199.87 Mbit/s

95th percentile per-packet one-way delay: 2.160 ms

Loss rate: 0.00%

Run 8: Report of Indigo-calib — Data Link

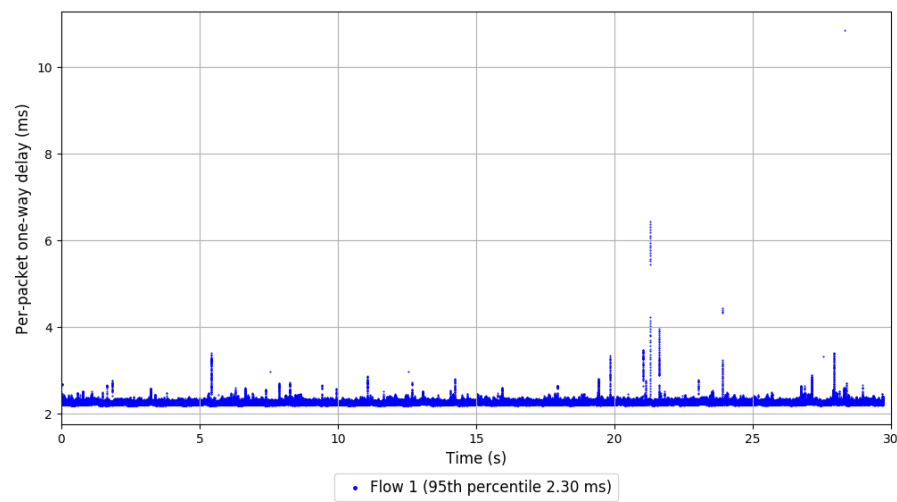
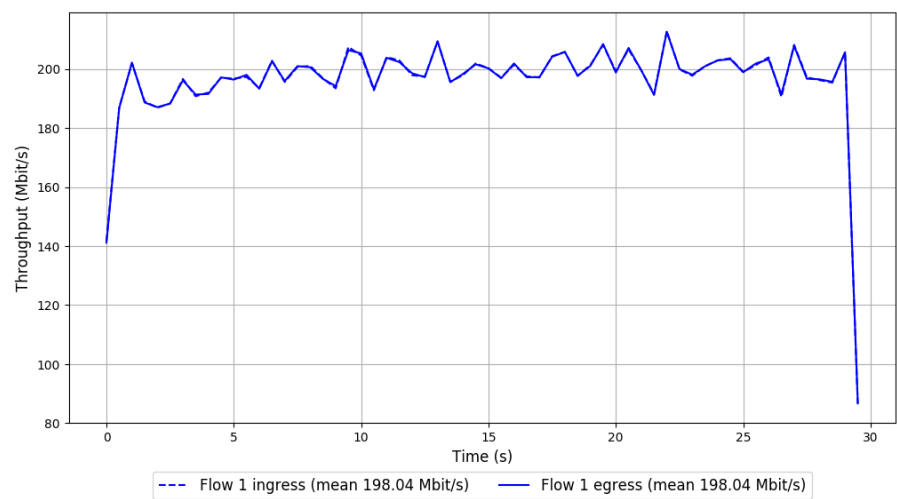


Run 9: Statistics of Indigo-calib

Start at: 2017-12-11 16:20:33
End at: 2017-12-11 16:21:03
Local clock offset: 1.012 ms
Remote clock offset: -0.283 ms

Below is generated by plot.py at 2017-12-11 19:49:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 198.04 Mbit/s
95th percentile per-packet one-way delay: 2.297 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 198.04 Mbit/s
95th percentile per-packet one-way delay: 2.297 ms
Loss rate: 0.00%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-12-11 16:38:37

End at: 2017-12-11 16:39:07

Local clock offset: 1.165 ms

Remote clock offset: -0.235 ms

Below is generated by plot.py at 2017-12-11 19:49:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.87 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 198.87 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of Indigo-calib — Data Link

