

## Pantheon Report

Generated at 2017-12-11 18:02:56 (UTC).

Data path: AWS Brazil 2 Ethernet (*local*) → Colombia 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).

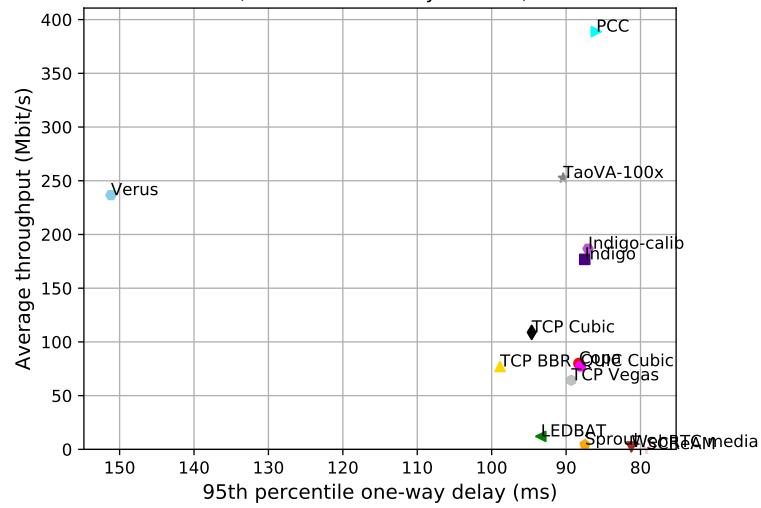
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo\_fast**).

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

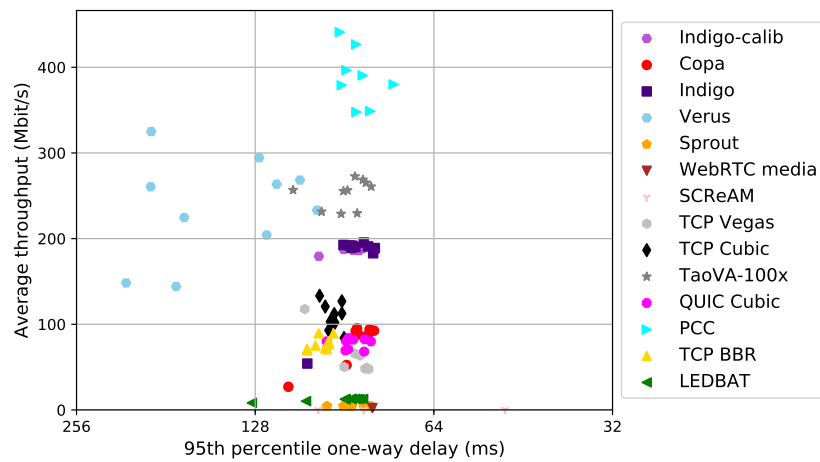
Git summary:

```
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-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from AWS Brazil 2 Ethernet to Colombia Ethernet, 10 runs of 30s each per scheme  
(mean of all runs by scheme)



test from AWS Brazil 2 Ethernet to Colombia 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	77.10	98.87	0.09
TCP Cubic	10	108.88	94.63	0.01
LEDBAT	10	12.05	93.40	0.01
PCC	8	388.79	85.95	5.79
QUIC Cubic	9	77.46	88.05	0.00
SCReAM	4	0.22	79.21	0.00
WebRTC media	1	2.19	81.23	0.00
Sprout	10	4.38	87.47	0.00
TaoVA-100x	10	252.59	90.38	0.17
TCP Vegas	8	64.29	89.31	0.00
Verus	10	236.63	151.17	1.62
Copa	10	79.94	88.27	0.00
Indigo	10	176.83	87.50	0.00
Indigo-calib	10	186.75	87.05	0.00

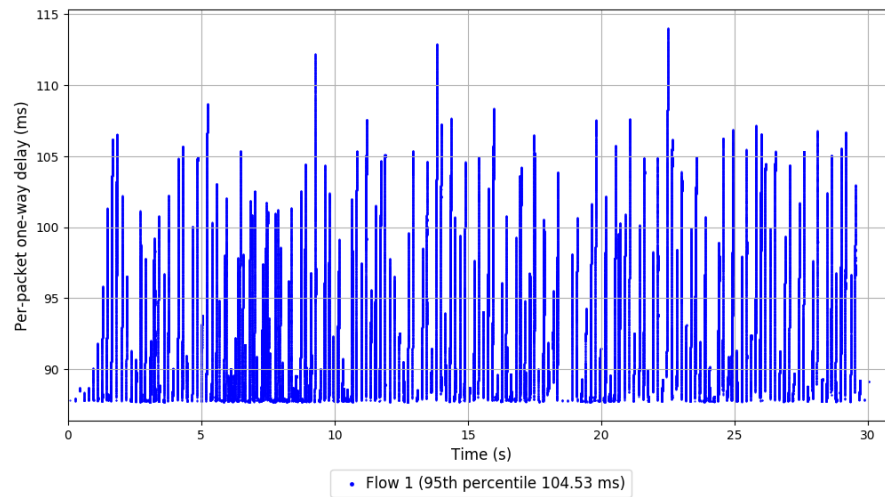
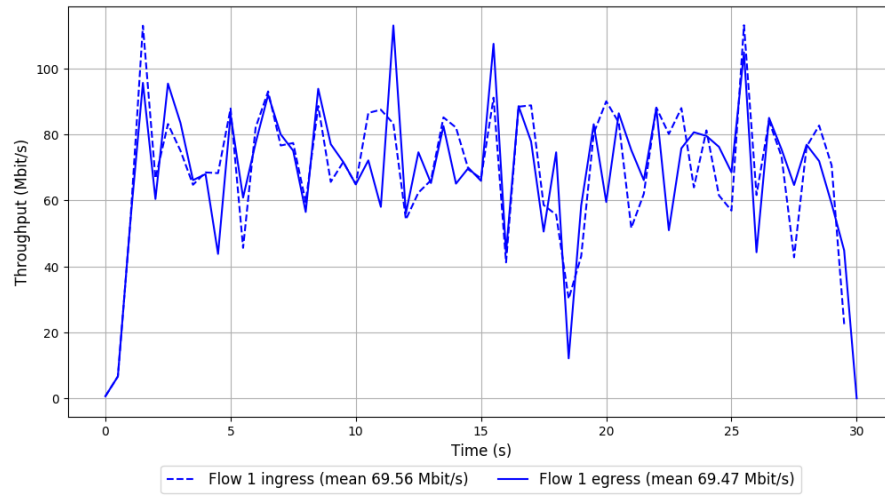
Run 1: Statistics of TCP BBR

Start at: 2017-12-11 14:01:42  
End at: 2017-12-11 14:02:12  
Local clock offset: -0.344 ms  
Remote clock offset: -0.159 ms

# Below is generated by plot.py at 2017-12-11 17:30:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 69.47 Mbit/s  
95th percentile per-packet one-way delay: 104.531 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 69.47 Mbit/s  
95th percentile per-packet one-way delay: 104.531 ms  
Loss rate: 0.13%



# Run 1: Report of TCP BBR — Data Link

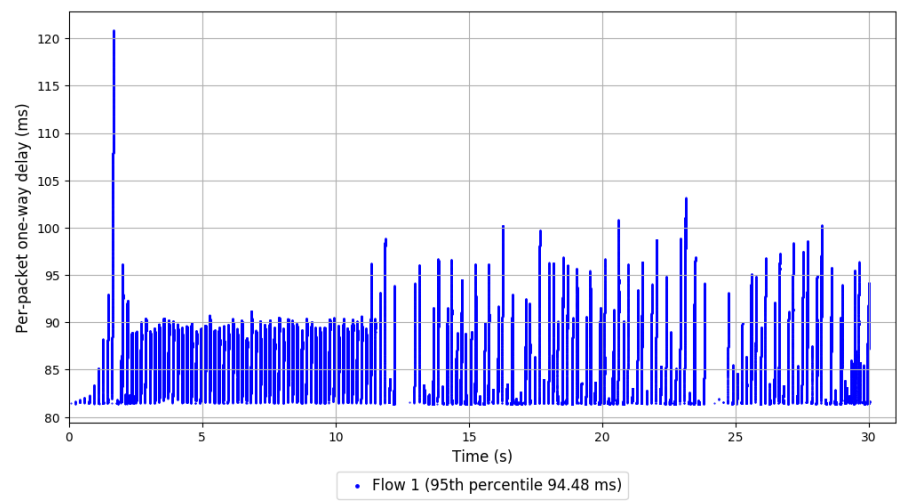
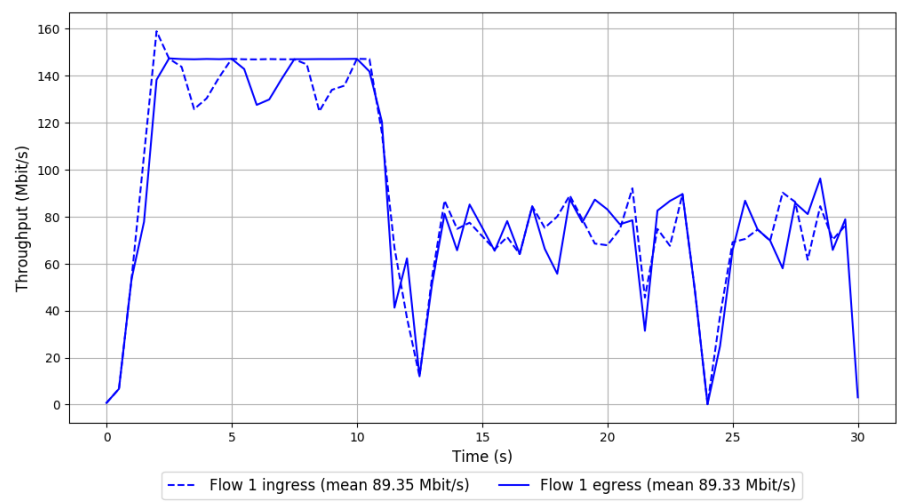


Run 2: Statistics of TCP BBR

Start at: 2017-12-11 14:19:48  
End at: 2017-12-11 14:20:18  
Local clock offset: -0.394 ms  
Remote clock offset: -4.966 ms

# Below is generated by plot.py at 2017-12-11 17:31:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 89.33 Mbit/s  
95th percentile per-packet one-way delay: 94.485 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 89.33 Mbit/s  
95th percentile per-packet one-way delay: 94.485 ms  
Loss rate: 0.02%

Run 2: Report of TCP BBR — Data Link

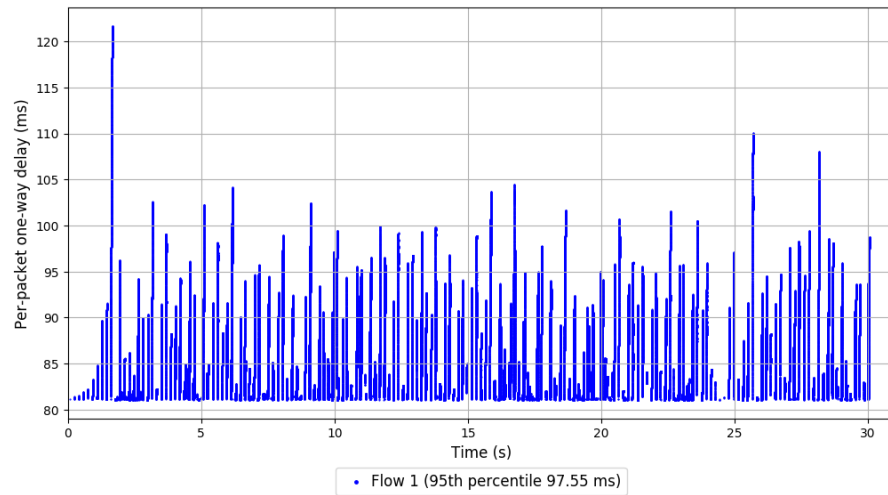
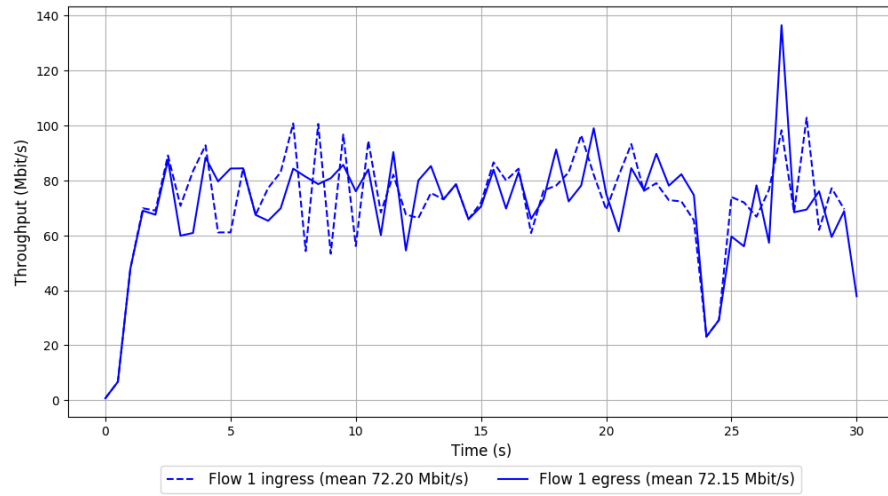


Run 3: Statistics of TCP BBR

Start at: 2017-12-11 14:37:40  
End at: 2017-12-11 14:38:10  
Local clock offset: -0.421 ms  
Remote clock offset: -4.412 ms

# Below is generated by plot.py at 2017-12-11 17:31:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 72.15 Mbit/s  
95th percentile per-packet one-way delay: 97.549 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 72.15 Mbit/s  
95th percentile per-packet one-way delay: 97.549 ms  
Loss rate: 0.01%

### Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-12-11 14:55:25

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

Local clock offset: -0.463 ms

Remote clock offset: 1.047 ms

# Below is generated by plot.py at 2017-12-11 17:31:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 75.15 Mbit/s

95th percentile per-packet one-way delay: 101.310 ms

Loss rate: 0.02%

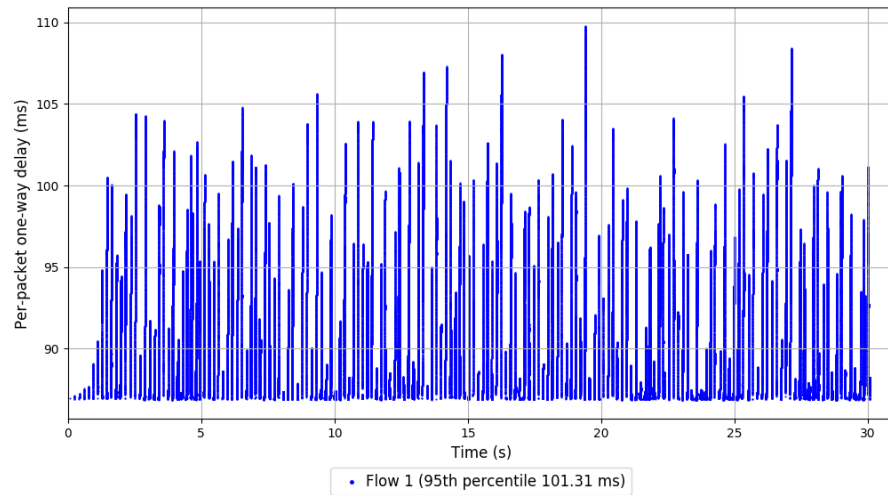
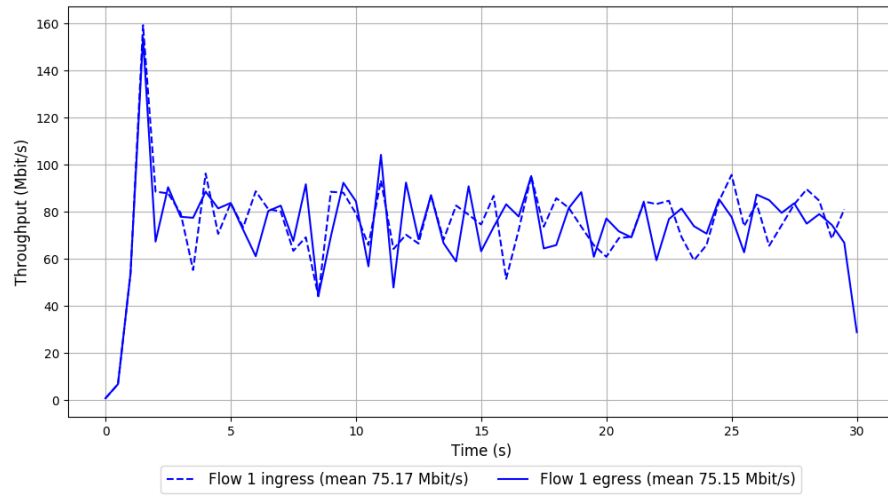
-- Flow 1:

Average throughput: 75.15 Mbit/s

95th percentile per-packet one-way delay: 101.310 ms

Loss rate: 0.02%

#### Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-12-11 15:13:33

End at: 2017-12-11 15:14:03

Local clock offset: -0.461 ms

Remote clock offset: 0.462 ms

# Below is generated by plot.py at 2017-12-11 17:31:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 70.97 Mbit/s

95th percentile per-packet one-way delay: 104.739 ms

Loss rate: 0.10%

-- Flow 1:

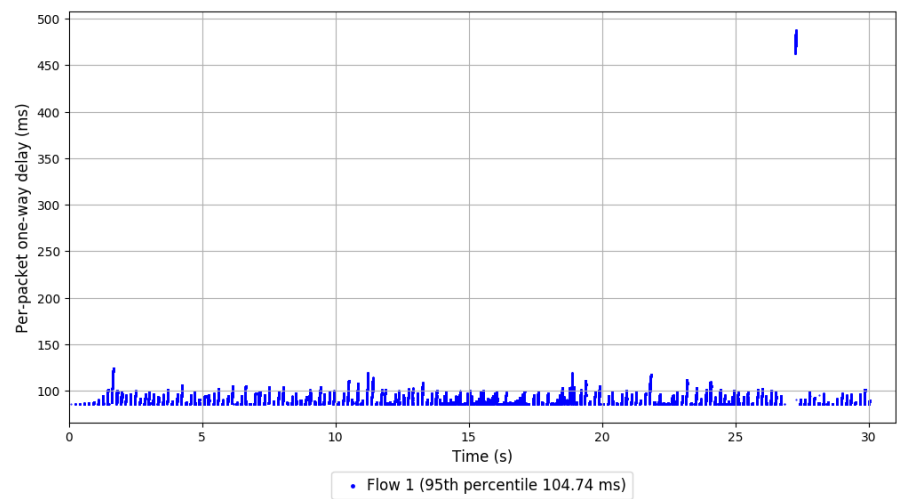
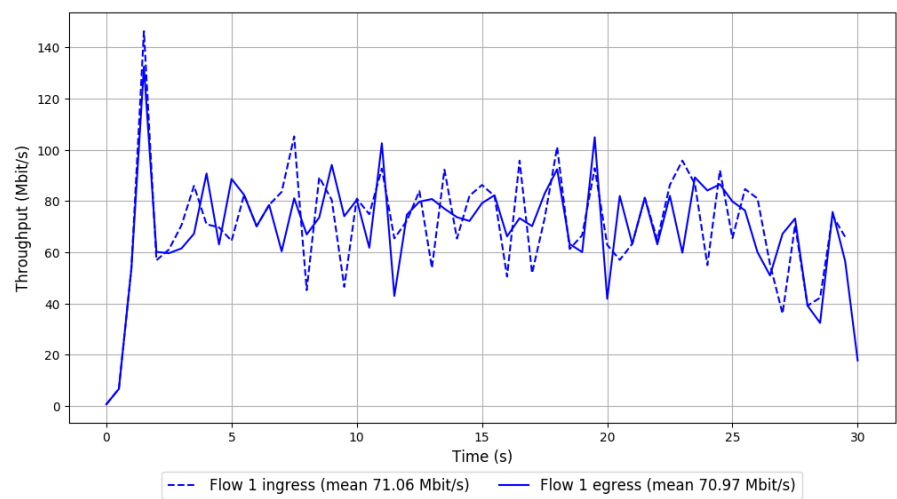
Average throughput: 70.97 Mbit/s

95th percentile per-packet one-way delay: 104.739 ms

Loss rate: 0.10%



Run 5: Report of TCP BBR — Data Link

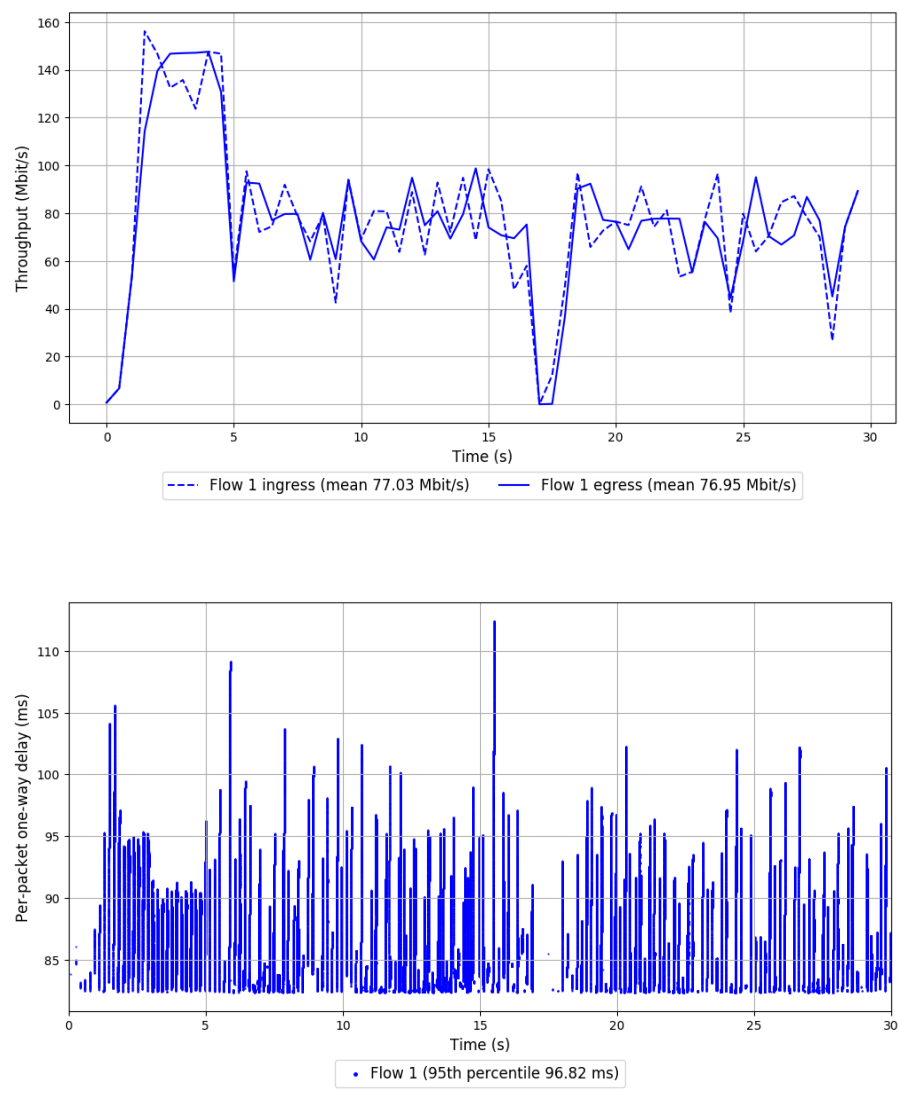


Run 6: Statistics of TCP BBR

Start at: 2017-12-11 15:31:10  
End at: 2017-12-11 15:31:40  
Local clock offset: -0.48 ms  
Remote clock offset: -4.549 ms

# Below is generated by plot.py at 2017-12-11 17:31:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 76.95 Mbit/s  
95th percentile per-packet one-way delay: 96.816 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 76.95 Mbit/s  
95th percentile per-packet one-way delay: 96.816 ms  
Loss rate: 0.10%

Run 6: Report of TCP BBR — Data Link

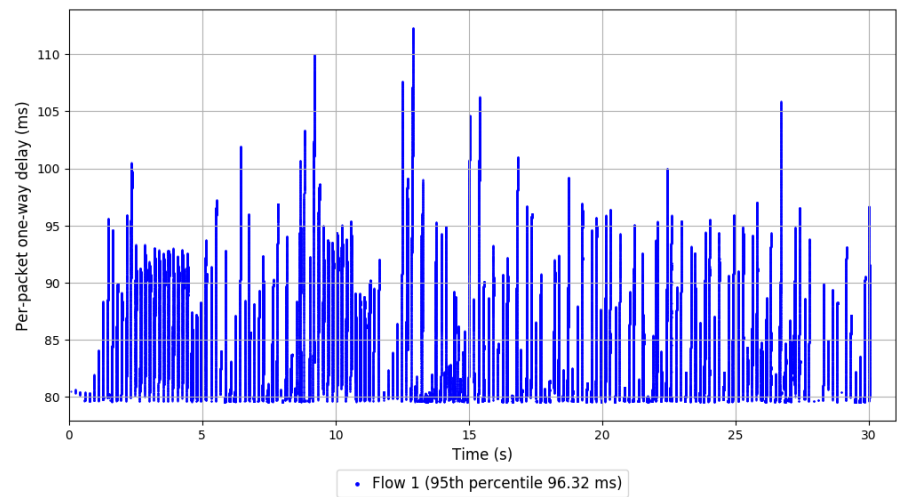
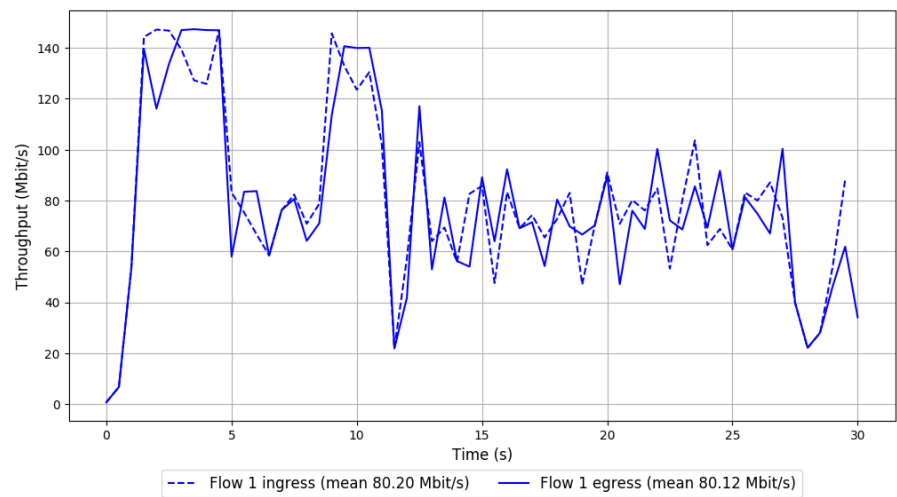


Run 7: Statistics of TCP BBR

Start at: 2017-12-11 15:48:57  
End at: 2017-12-11 15:49:27  
Local clock offset: -0.458 ms  
Remote clock offset: -6.897 ms

# Below is generated by plot.py at 2017-12-11 17:31:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 80.12 Mbit/s  
95th percentile per-packet one-way delay: 96.317 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 80.12 Mbit/s  
95th percentile per-packet one-way delay: 96.317 ms  
Loss rate: 0.07%

Run 7: Report of TCP BBR — Data Link

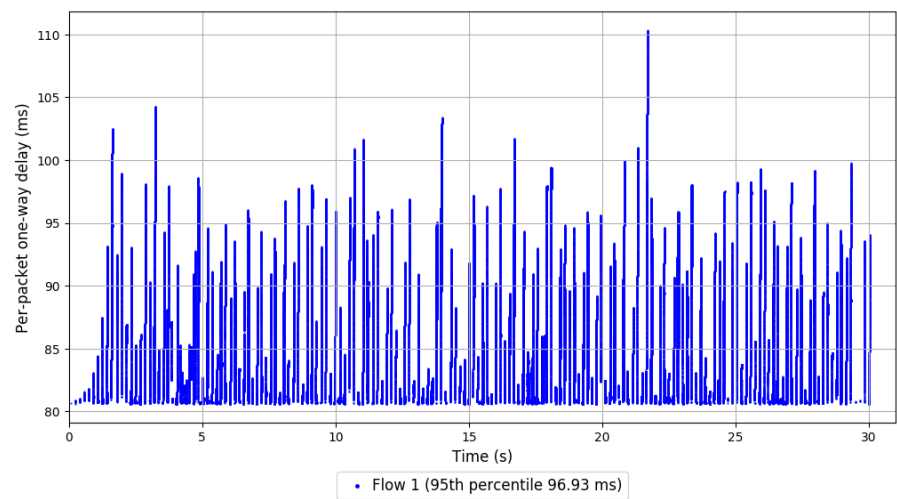
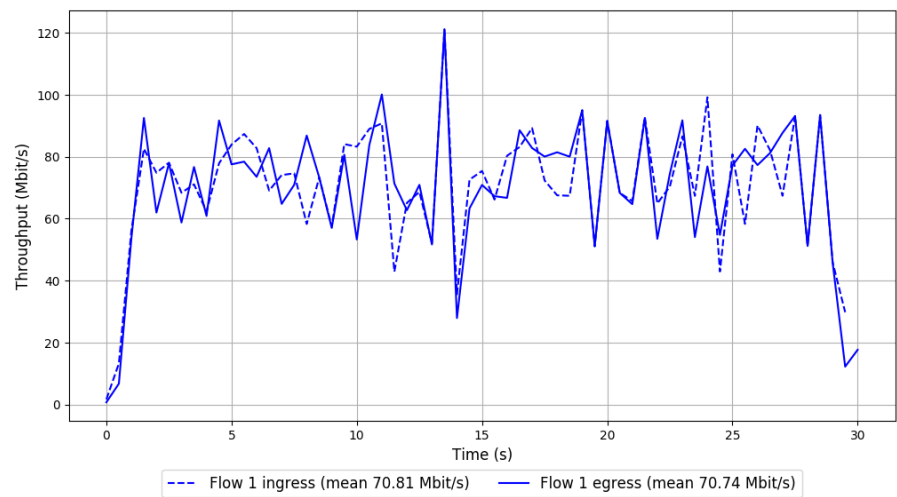


Run 8: Statistics of TCP BBR

Start at: 2017-12-11 16:07:12  
End at: 2017-12-11 16:07:42  
Local clock offset: -0.465 ms  
Remote clock offset: -4.184 ms

# Below is generated by plot.py at 2017-12-11 17:31:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 70.74 Mbit/s  
95th percentile per-packet one-way delay: 96.931 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 70.74 Mbit/s  
95th percentile per-packet one-way delay: 96.931 ms  
Loss rate: 0.06%

Run 8: Report of TCP BBR — Data Link



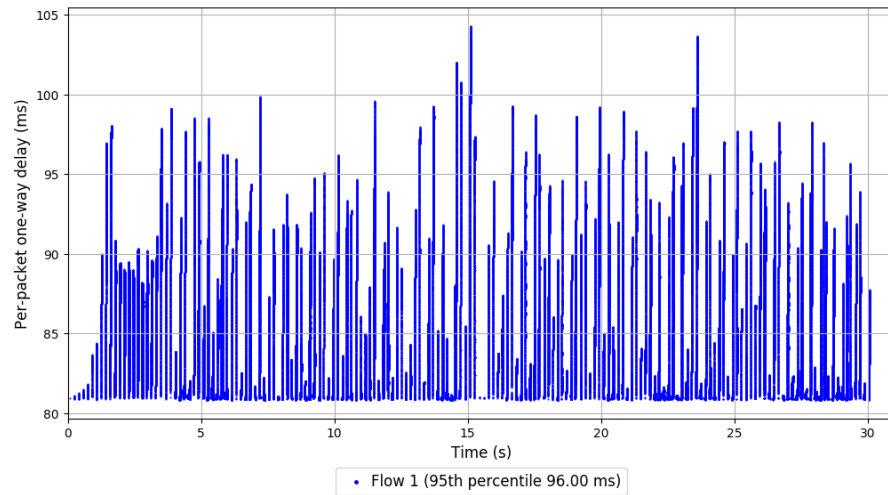
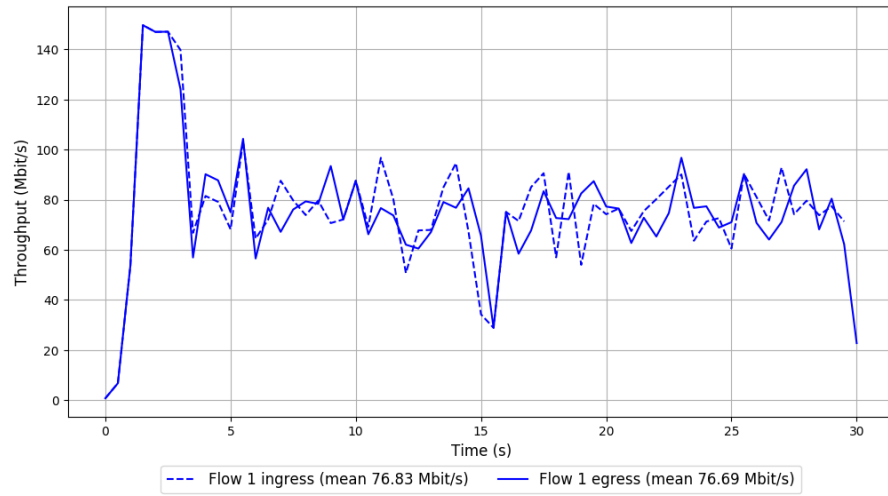
Run 9: Statistics of TCP BBR

Start at: 2017-12-11 16:25:21  
End at: 2017-12-11 16:25:51  
Local clock offset: -0.402 ms  
Remote clock offset: -4.072 ms

# Below is generated by plot.py at 2017-12-11 17:31:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 76.69 Mbit/s  
95th percentile per-packet one-way delay: 96.001 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 76.69 Mbit/s  
95th percentile per-packet one-way delay: 96.001 ms  
Loss rate: 0.16%



### Run 9: Report of TCP BBR — Data Link

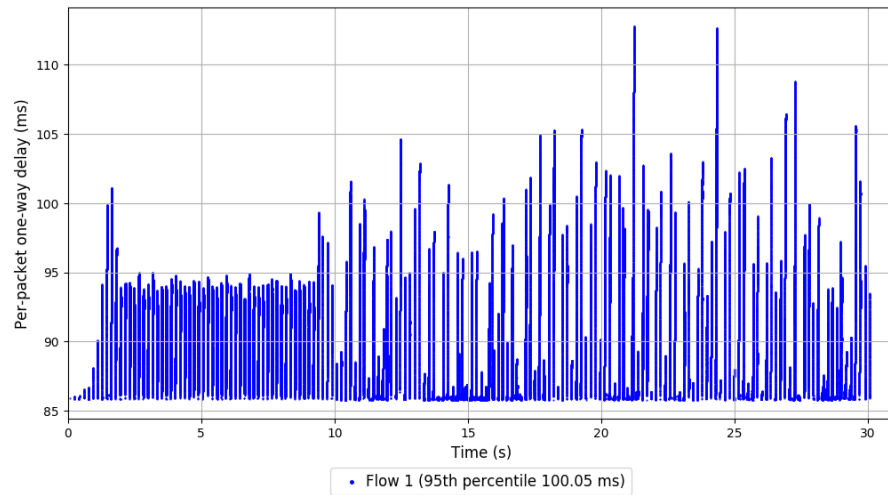
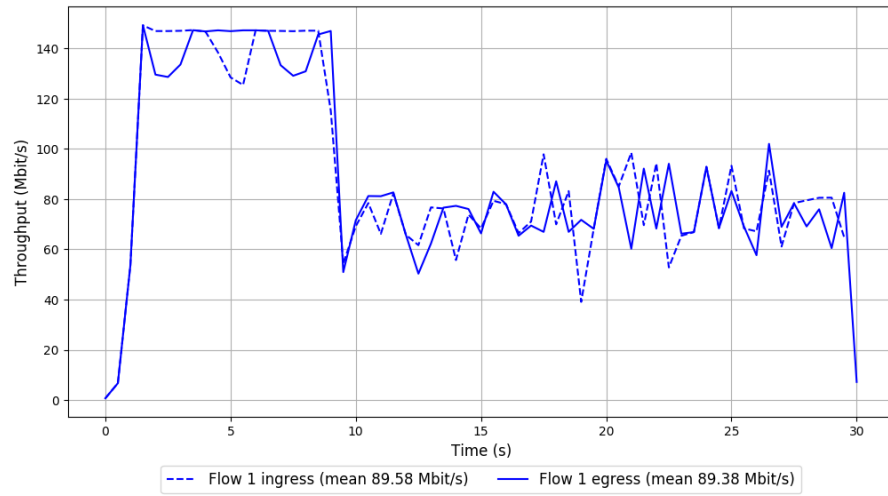


Run 10: Statistics of TCP BBR

Start at: 2017-12-11 16:43:21  
End at: 2017-12-11 16:43:51  
Local clock offset: -0.37 ms  
Remote clock offset: -0.572 ms

# Below is generated by plot.py at 2017-12-11 17:32:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 89.38 Mbit/s  
95th percentile per-packet one-way delay: 100.052 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 89.38 Mbit/s  
95th percentile per-packet one-way delay: 100.052 ms  
Loss rate: 0.21%

# Run 10: Report of TCP BBR — Data Link

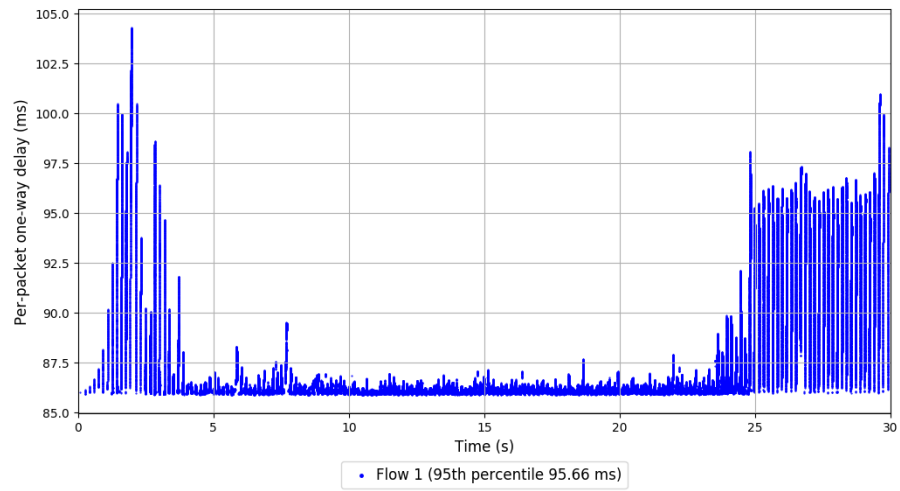
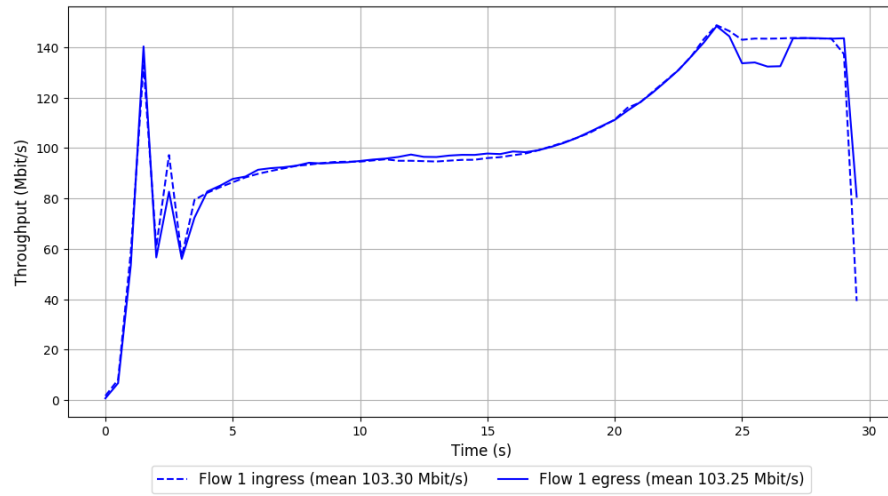


Run 1: Statistics of TCP Cubic

Start at: 2017-12-11 14:05:19  
End at: 2017-12-11 14:05:49  
Local clock offset: -0.368 ms  
Remote clock offset: -0.585 ms

# Below is generated by plot.py at 2017-12-11 17:32:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 103.25 Mbit/s  
95th percentile per-packet one-way delay: 95.662 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 103.25 Mbit/s  
95th percentile per-packet one-way delay: 95.662 ms  
Loss rate: 0.01%

### Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

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

End at: 2017-12-11 14:23:53

Local clock offset: -0.413 ms

Remote clock offset: 1.247 ms

# Below is generated by plot.py at 2017-12-11 17:32:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 120.71 Mbit/s

95th percentile per-packet one-way delay: 97.542 ms

Loss rate: 0.02%

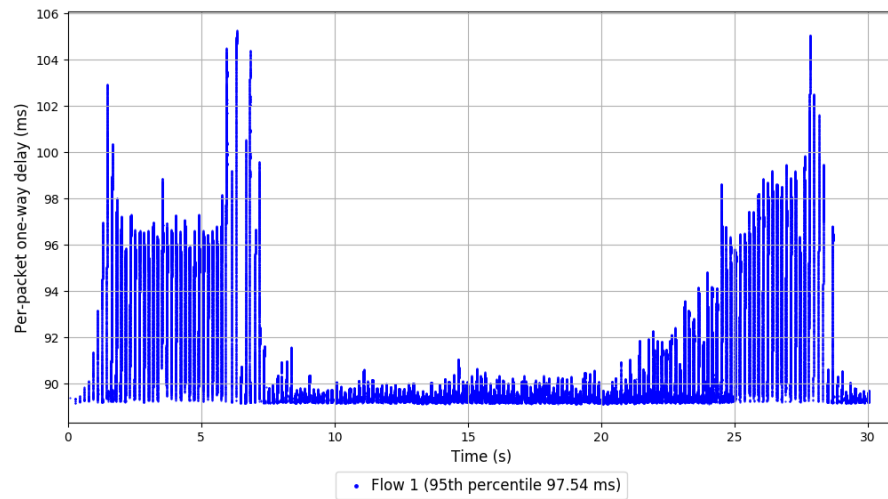
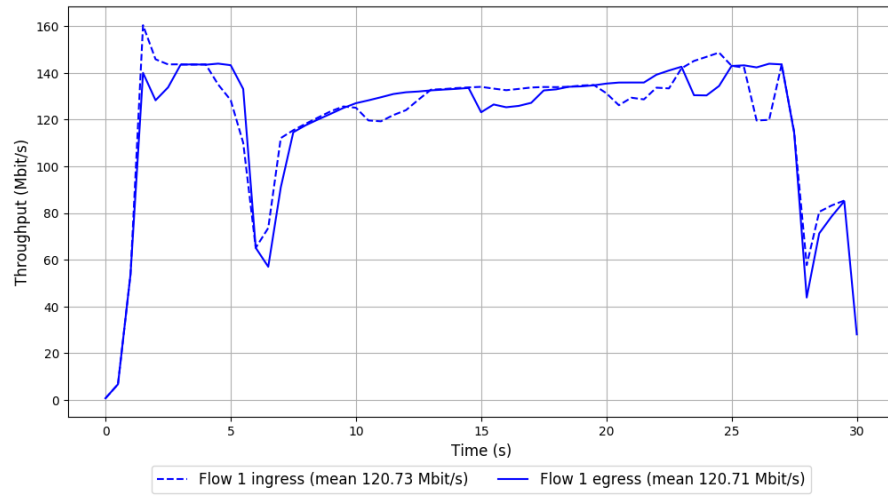
-- Flow 1:

Average throughput: 120.71 Mbit/s

95th percentile per-packet one-way delay: 97.542 ms

Loss rate: 0.02%

## Run 2: Report of TCP Cubic — Data Link



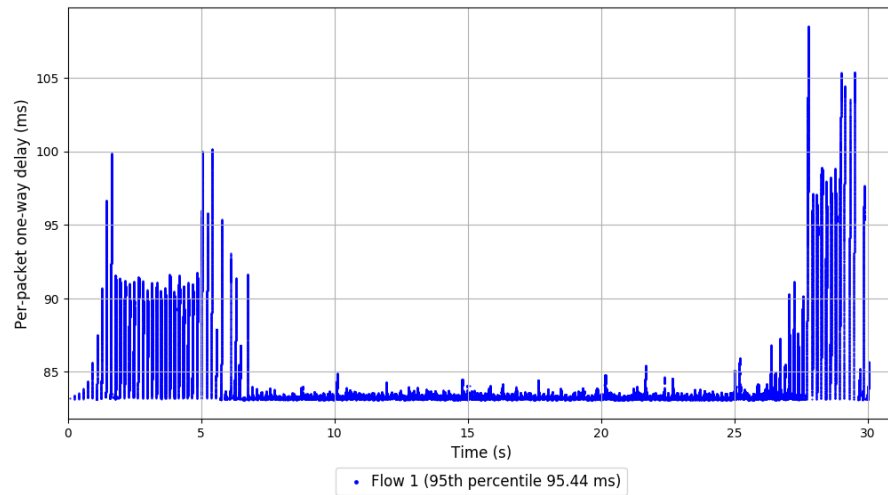
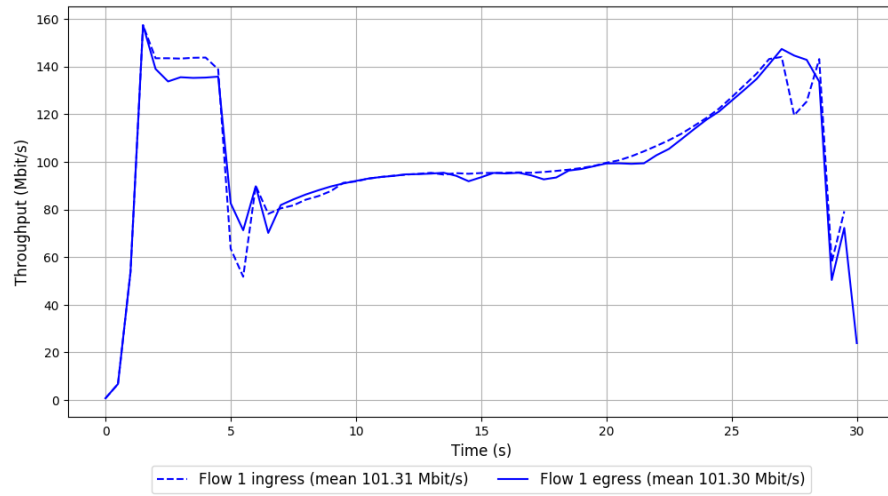
Run 3: Statistics of TCP Cubic

Start at: 2017-12-11 14:41:15  
End at: 2017-12-11 14:41:45  
Local clock offset: -0.436 ms  
Remote clock offset: -4.388 ms

# Below is generated by plot.py at 2017-12-11 17:32:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 101.30 Mbit/s  
95th percentile per-packet one-way delay: 95.442 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 101.30 Mbit/s  
95th percentile per-packet one-way delay: 95.442 ms  
Loss rate: 0.00%



### Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-12-11 14:59:00

End at: 2017-12-11 14:59:30

Local clock offset: -0.531 ms

Remote clock offset: 0.751 ms

# Below is generated by plot.py at 2017-12-11 17:32:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 133.27 Mbit/s

95th percentile per-packet one-way delay: 99.695 ms

Loss rate: 0.00%

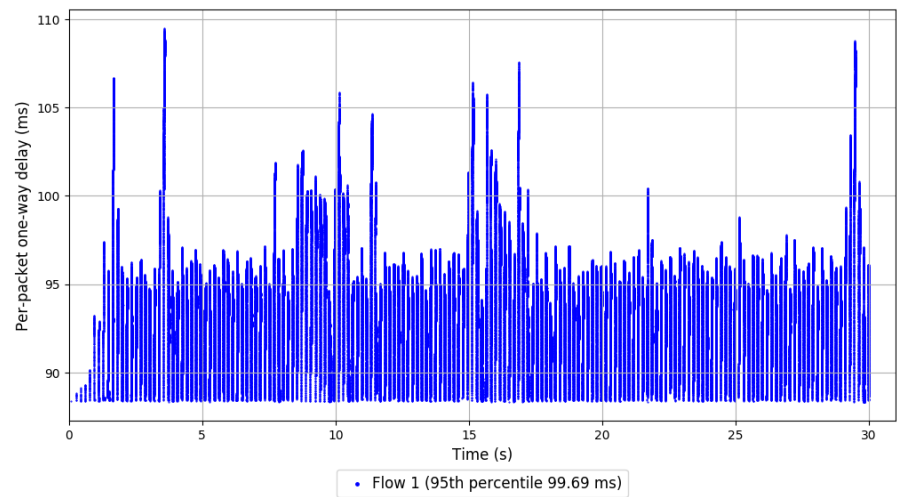
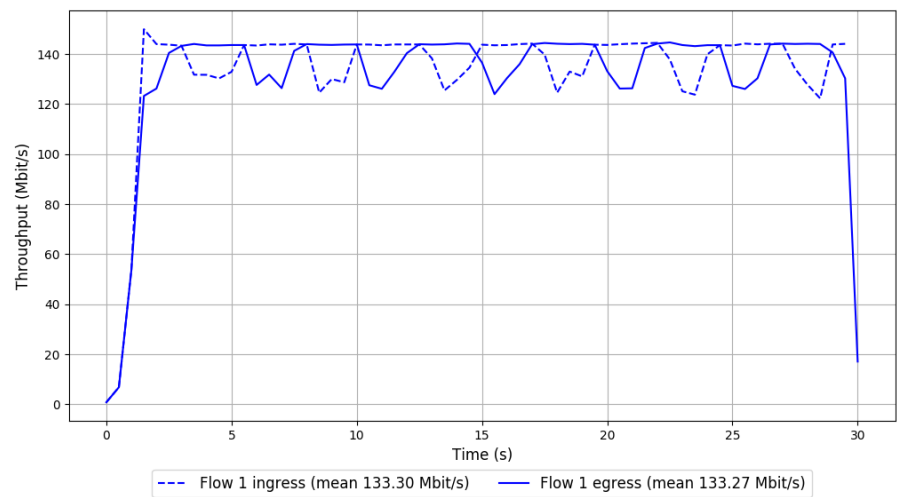
-- Flow 1:

Average throughput: 133.27 Mbit/s

95th percentile per-packet one-way delay: 99.695 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-12-11 15:17:08

End at: 2017-12-11 15:17:38

Local clock offset: -0.472 ms

Remote clock offset: -4.72 ms

# Below is generated by plot.py at 2017-12-11 17:32:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 112.63 Mbit/s

95th percentile per-packet one-way delay: 91.429 ms

Loss rate: 0.02%

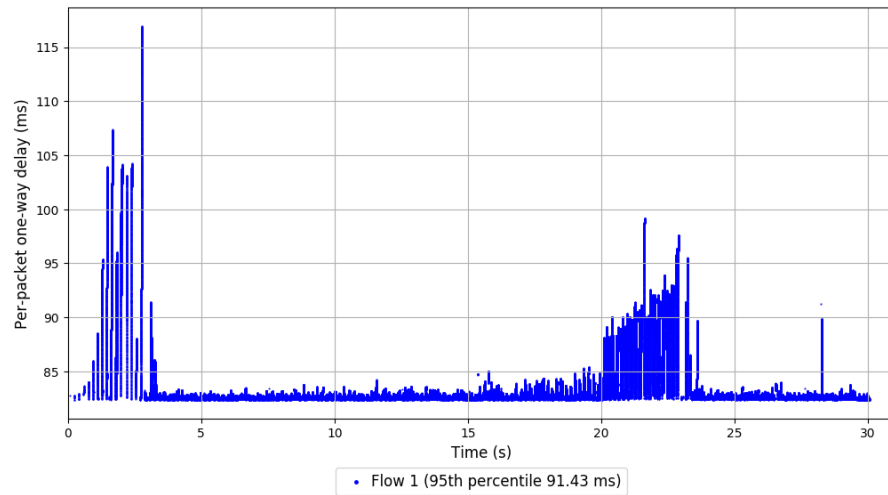
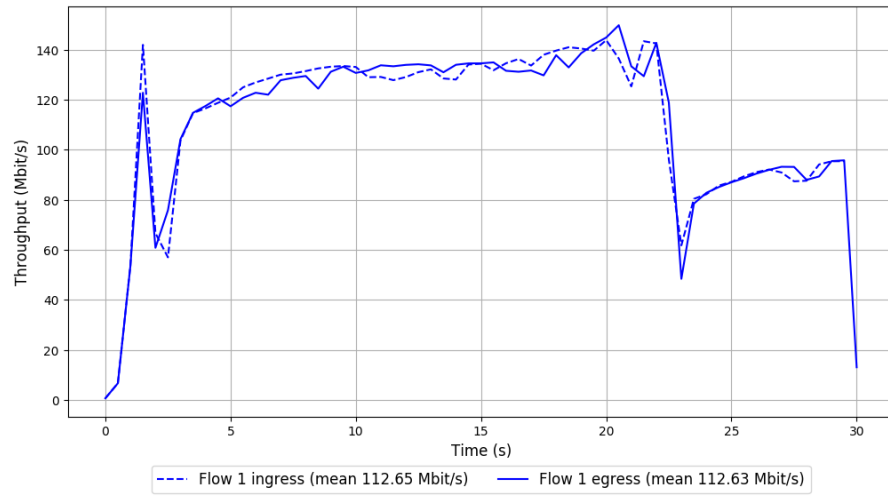
-- Flow 1:

Average throughput: 112.63 Mbit/s

95th percentile per-packet one-way delay: 91.429 ms

Loss rate: 0.02%

### Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-12-11 15:34:46

End at: 2017-12-11 15:35:16

Local clock offset: -0.463 ms

Remote clock offset: 2.198 ms

# Below is generated by plot.py at 2017-12-11 17:32:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.97 Mbit/s

95th percentile per-packet one-way delay: 96.253 ms

Loss rate: 0.01%

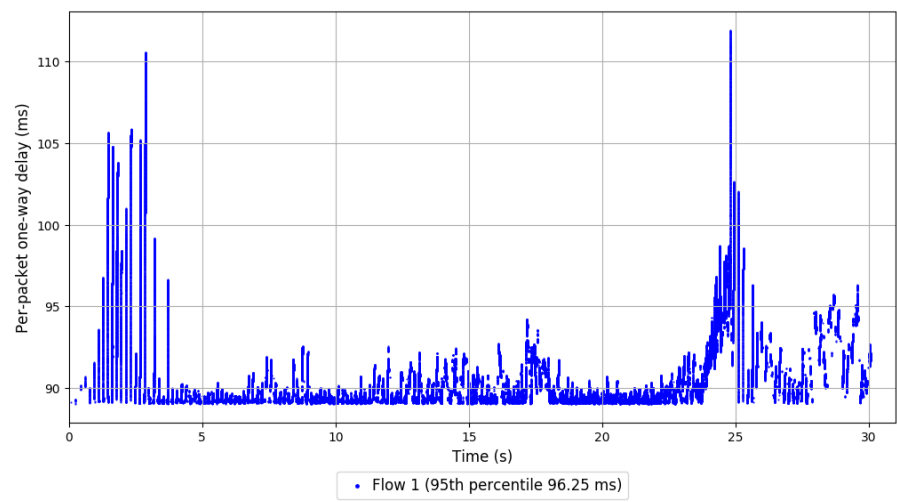
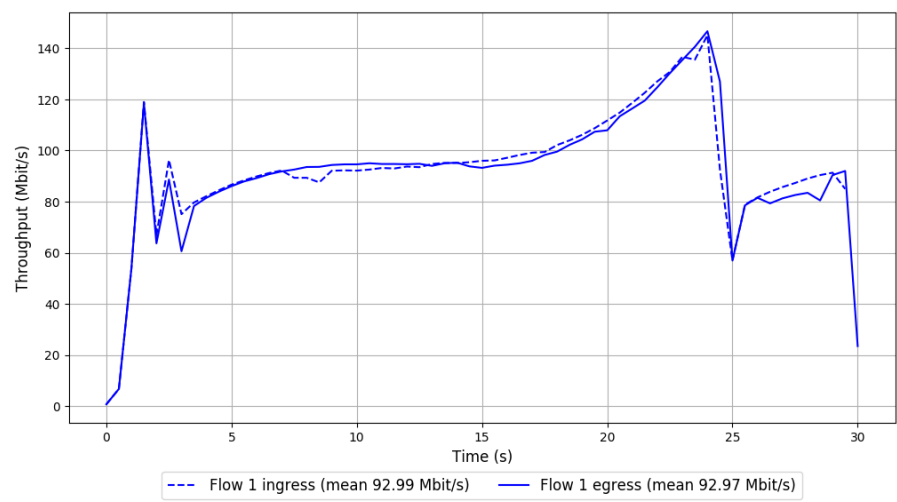
-- Flow 1:

Average throughput: 92.97 Mbit/s

95th percentile per-packet one-way delay: 96.253 ms

Loss rate: 0.01%

Run 6: Report of TCP Cubic — Data Link



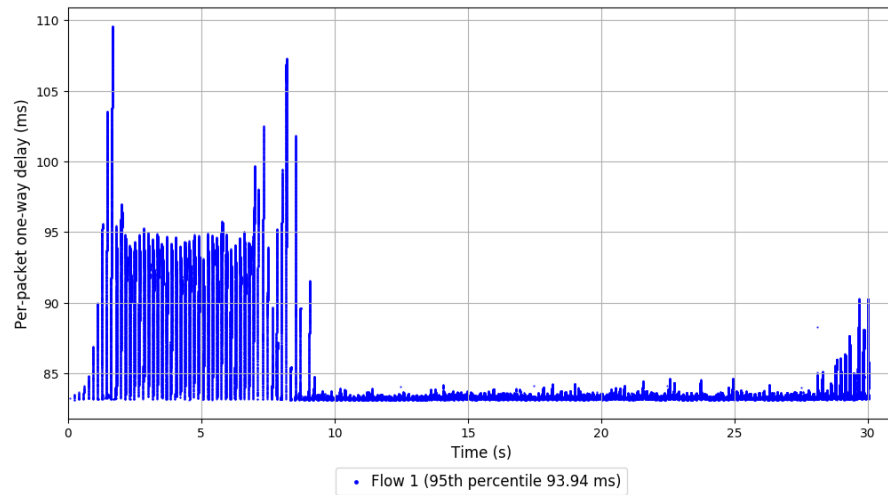
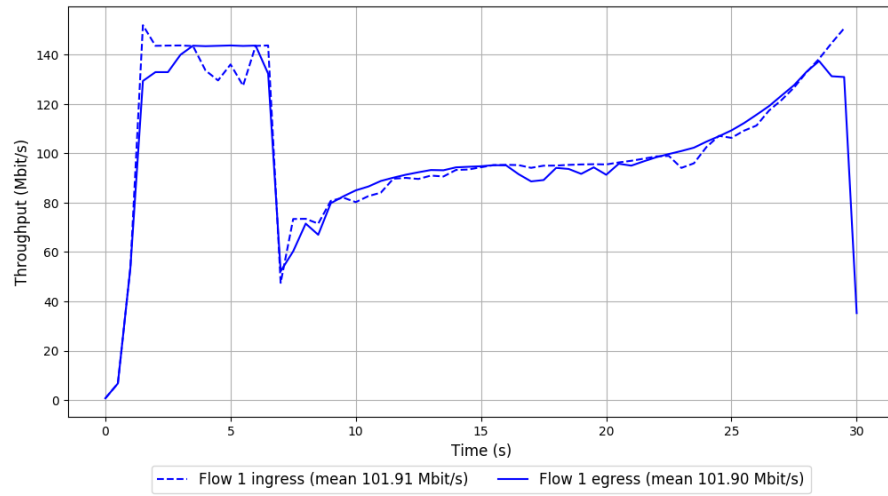
Run 7: Statistics of TCP Cubic

Start at: 2017-12-11 15:52:35  
End at: 2017-12-11 15:53:05  
Local clock offset: -0.439 ms  
Remote clock offset: -3.293 ms

# Below is generated by plot.py at 2017-12-11 17:33:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 101.90 Mbit/s  
95th percentile per-packet one-way delay: 93.938 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 101.90 Mbit/s  
95th percentile per-packet one-way delay: 93.938 ms  
Loss rate: 0.00%



### Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-12-11 16:10:49

End at: 2017-12-11 16:11:19

Local clock offset: -0.551 ms

Remote clock offset: 1.179 ms

# Below is generated by plot.py at 2017-12-11 17:33:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 111.93 Mbit/s

95th percentile per-packet one-way delay: 94.180 ms

Loss rate: 0.01%

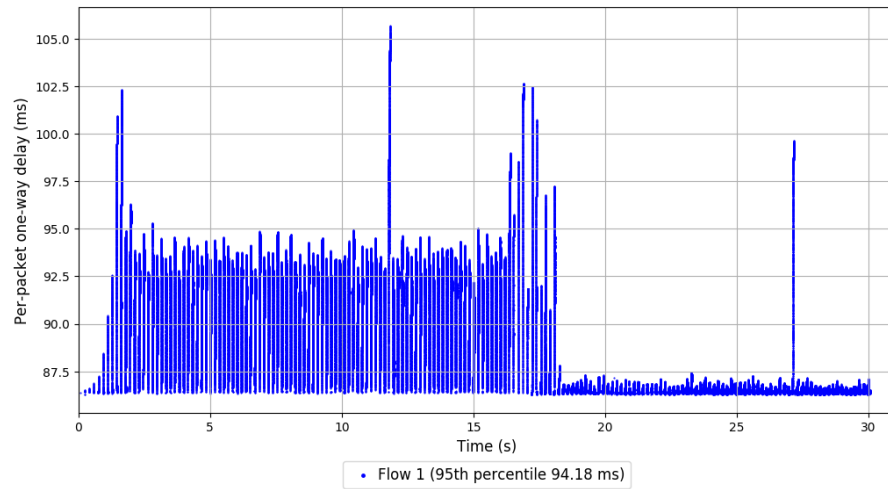
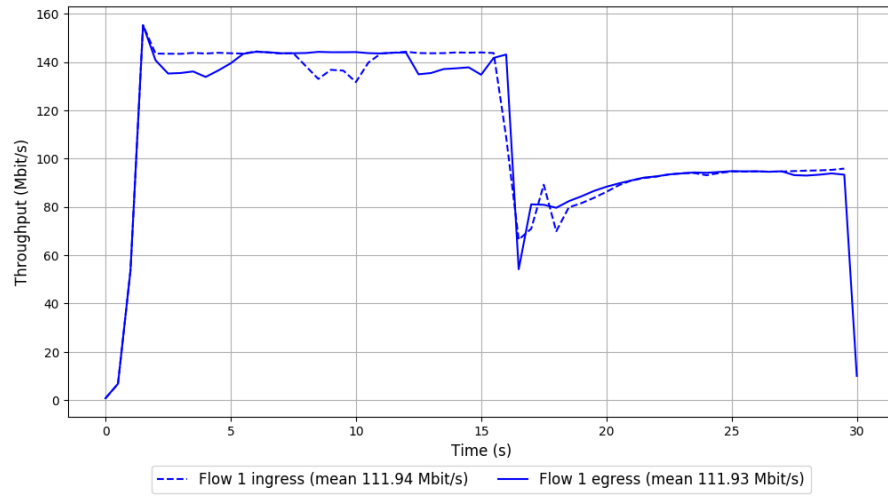
-- Flow 1:

Average throughput: 111.93 Mbit/s

95th percentile per-packet one-way delay: 94.180 ms

Loss rate: 0.01%

### Run 8: Report of TCP Cubic — Data Link

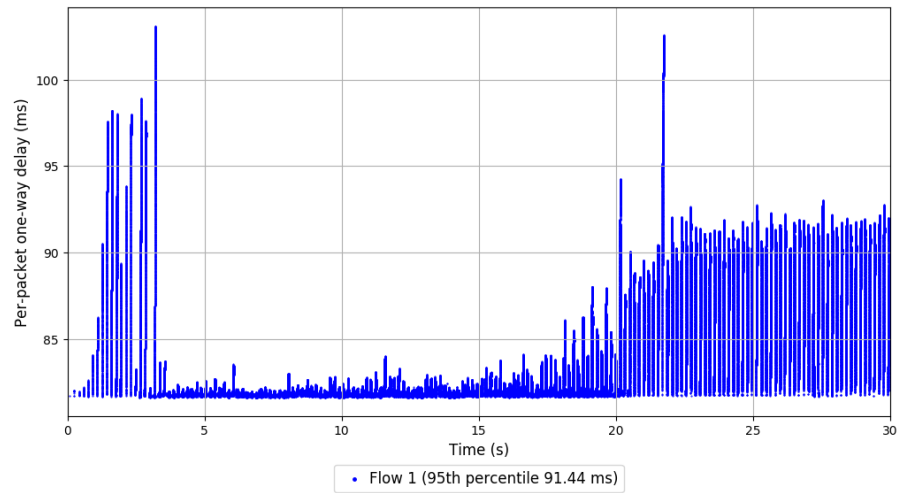
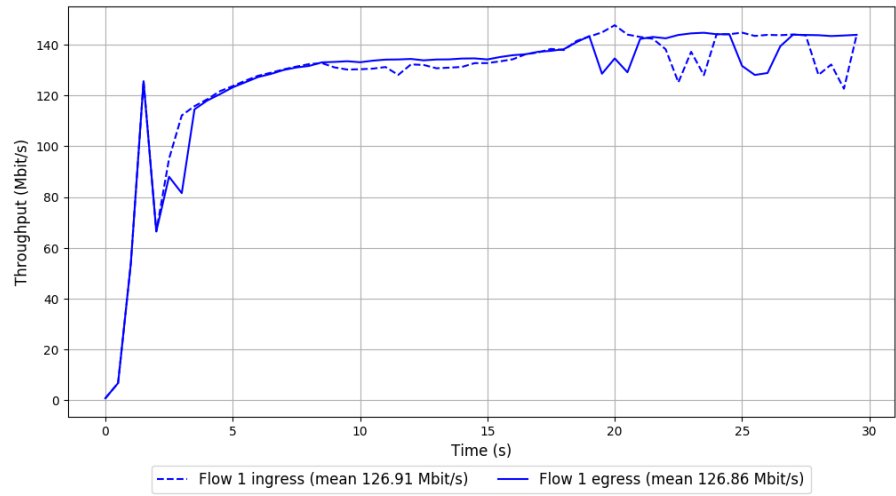


Run 9: Statistics of TCP Cubic

Start at: 2017-12-11 16:28:58  
End at: 2017-12-11 16:29:28  
Local clock offset: -0.507 ms  
Remote clock offset: -3.203 ms

# Below is generated by plot.py at 2017-12-11 17:34:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 126.86 Mbit/s  
95th percentile per-packet one-way delay: 91.437 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 126.86 Mbit/s  
95th percentile per-packet one-way delay: 91.437 ms  
Loss rate: 0.01%

### Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-12-11 16:46:58

End at: 2017-12-11 16:47:28

Local clock offset: -0.403 ms

Remote clock offset: -5.382 ms

# Below is generated by plot.py at 2017-12-11 17:34:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.96 Mbit/s

95th percentile per-packet one-way delay: 90.687 ms

Loss rate: 0.02%

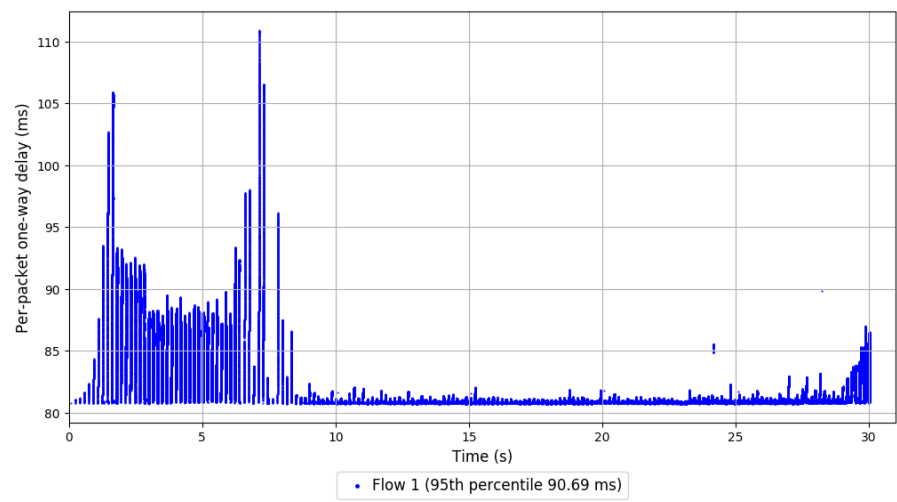
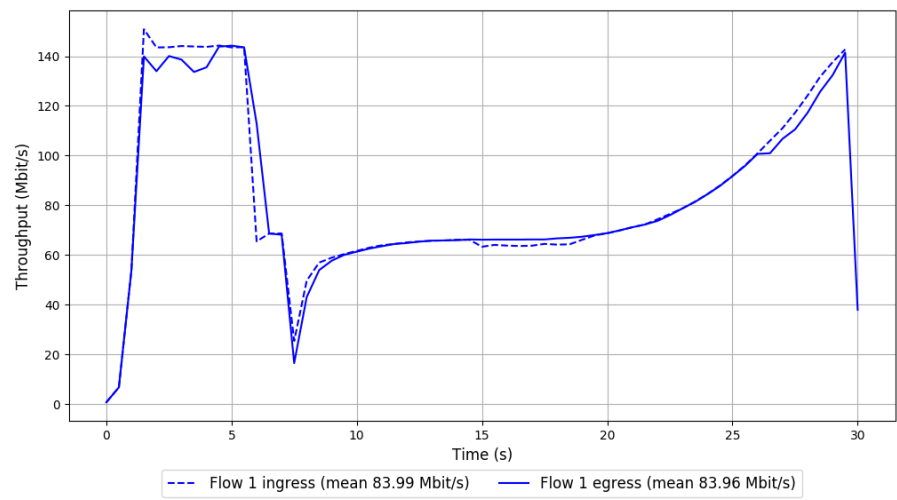
-- Flow 1:

Average throughput: 83.96 Mbit/s

95th percentile per-packet one-way delay: 90.687 ms

Loss rate: 0.02%

Run 10: Report of TCP Cubic — Data Link



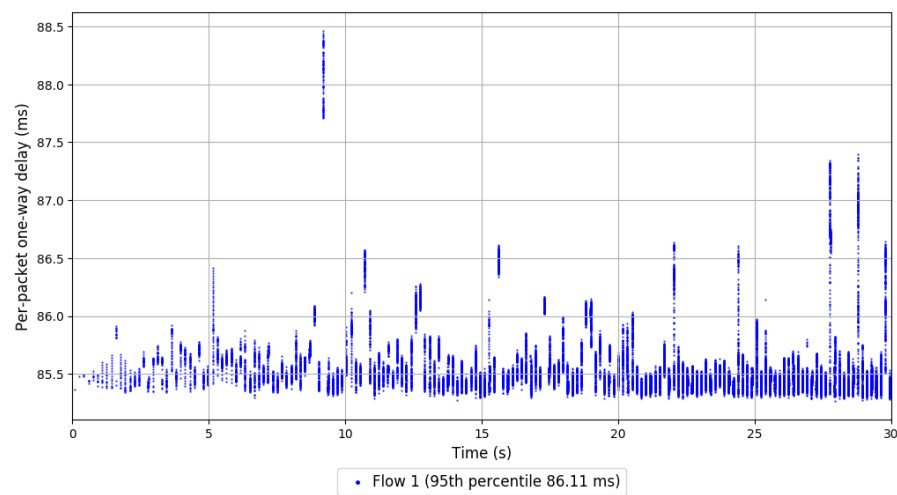
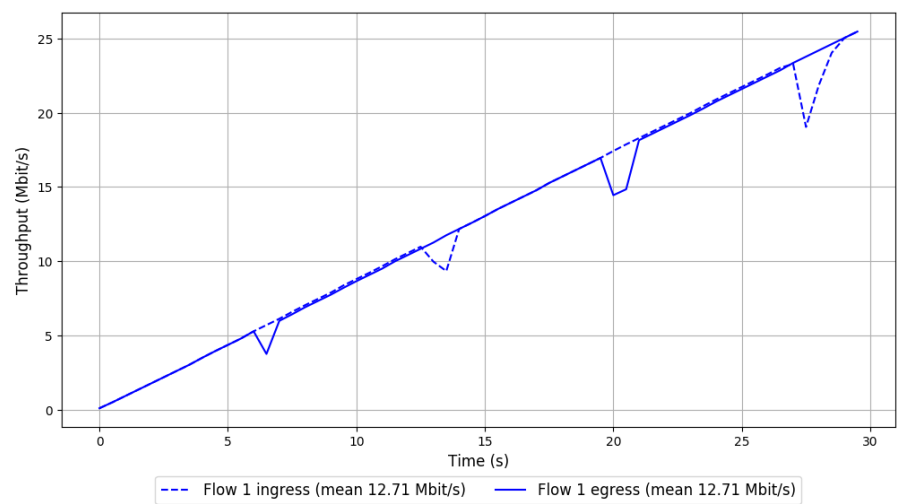
Run 1: Statistics of LEDBAT

Start at: 2017-12-11 14:02:57  
End at: 2017-12-11 14:03:27  
Local clock offset: -0.333 ms  
Remote clock offset: -1.082 ms

# Below is generated by plot.py at 2017-12-11 17:34:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.71 Mbit/s  
95th percentile per-packet one-way delay: 86.114 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 12.71 Mbit/s  
95th percentile per-packet one-way delay: 86.114 ms  
Loss rate: 0.00%



Run 1: Report of LEDBAT — Data Link

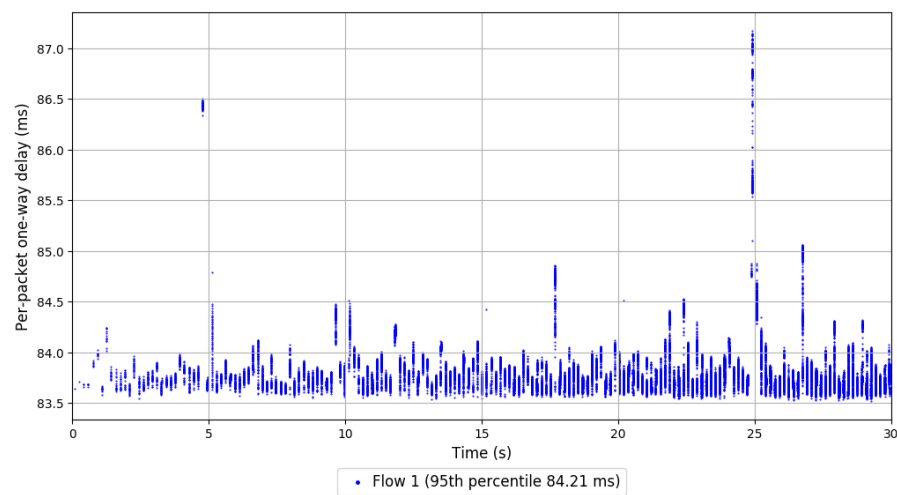
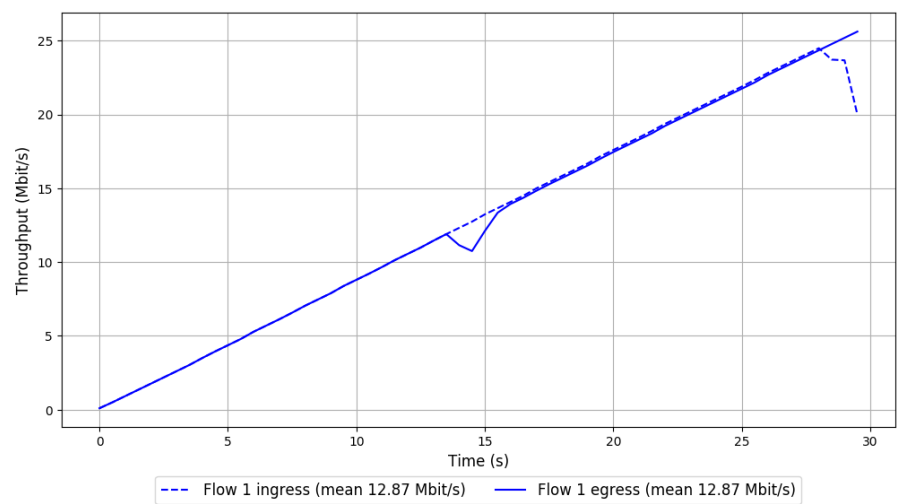


Run 2: Statistics of LEDBAT

Start at: 2017-12-11 14:21:02  
End at: 2017-12-11 14:21:32  
Local clock offset: -0.379 ms  
Remote clock offset: -4.439 ms

# Below is generated by plot.py at 2017-12-11 17:34:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.87 Mbit/s  
95th percentile per-packet one-way delay: 84.210 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 12.87 Mbit/s  
95th percentile per-packet one-way delay: 84.210 ms  
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-12-11 14:38:55

End at: 2017-12-11 14:39:25

Local clock offset: -0.436 ms

Remote clock offset: 1.078 ms

# Below is generated by plot.py at 2017-12-11 17:34:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 8.24 Mbit/s

95th percentile per-packet one-way delay: 129.668 ms

Loss rate: 0.05%

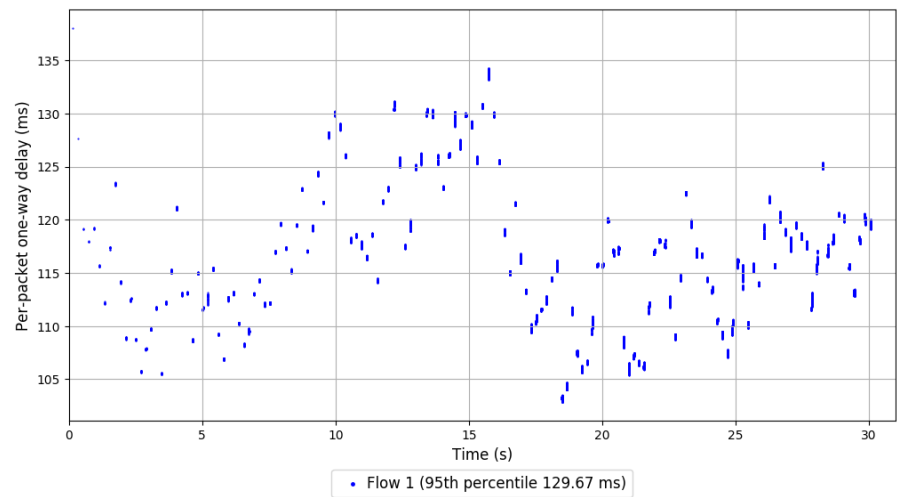
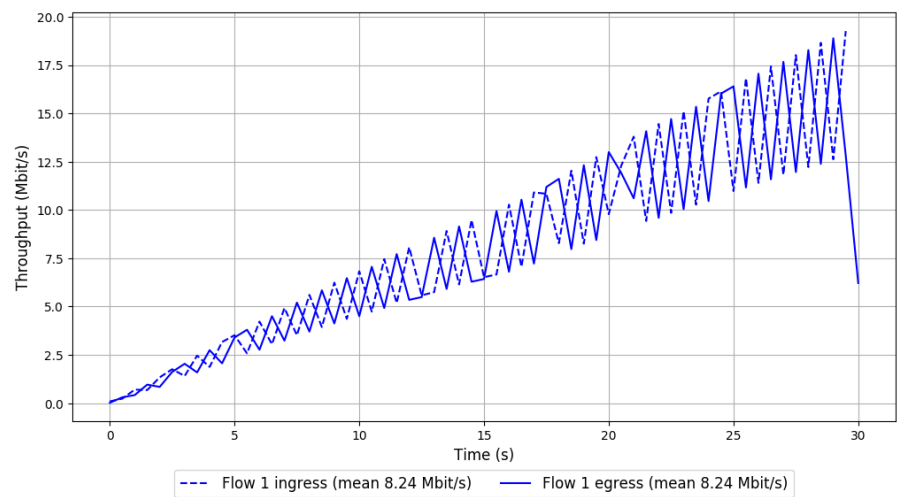
-- Flow 1:

Average throughput: 8.24 Mbit/s

95th percentile per-packet one-way delay: 129.668 ms

Loss rate: 0.05%

Run 3: Report of LEDBAT — Data Link

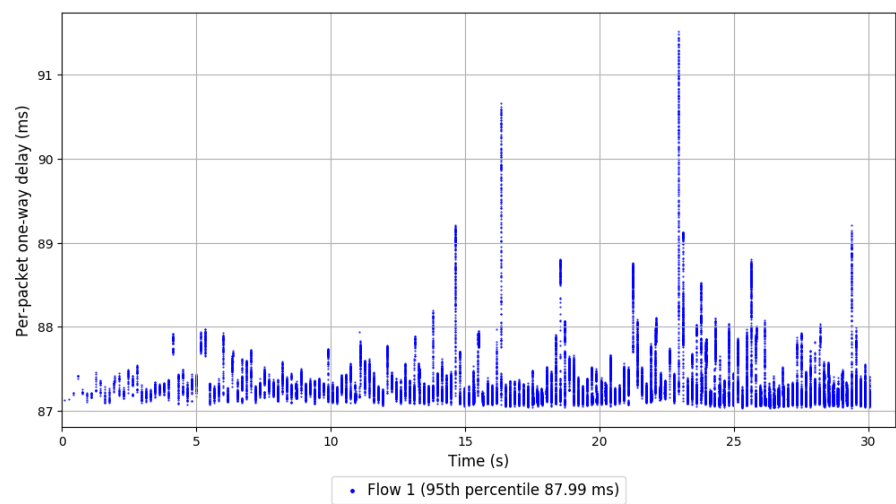
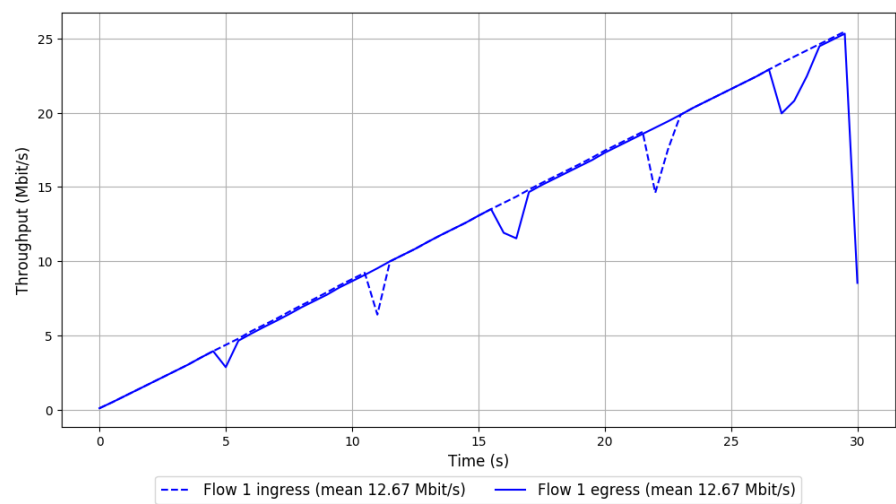


Run 4: Statistics of LEDBAT

Start at: 2017-12-11 14:56:39  
End at: 2017-12-11 14:57:09  
Local clock offset: -0.438 ms  
Remote clock offset: -0.171 ms

# Below is generated by plot.py at 2017-12-11 17:34:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.67 Mbit/s  
95th percentile per-packet one-way delay: 87.990 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 12.67 Mbit/s  
95th percentile per-packet one-way delay: 87.990 ms  
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-12-11 15:14:47

End at: 2017-12-11 15:15:17

Local clock offset: -0.533 ms

Remote clock offset: 0.885 ms

# Below is generated by plot.py at 2017-12-11 17:34:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.97 Mbit/s

95th percentile per-packet one-way delay: 86.890 ms

Loss rate: 0.00%

-- Flow 1:

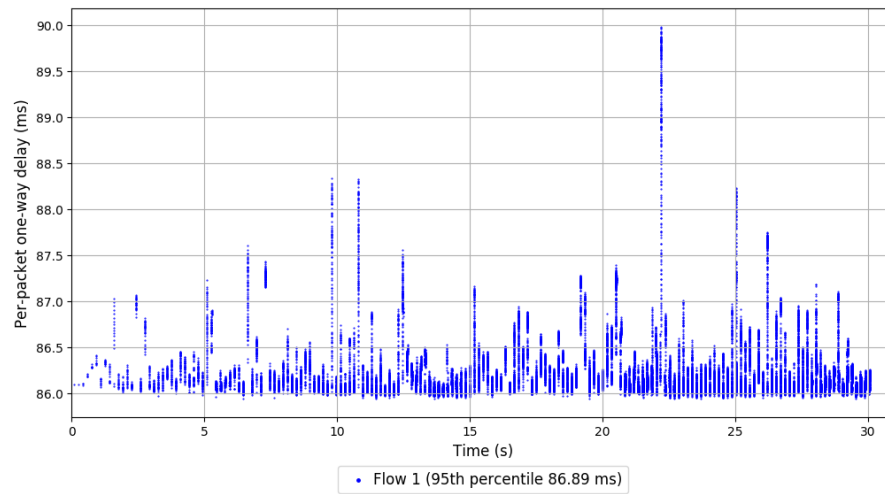
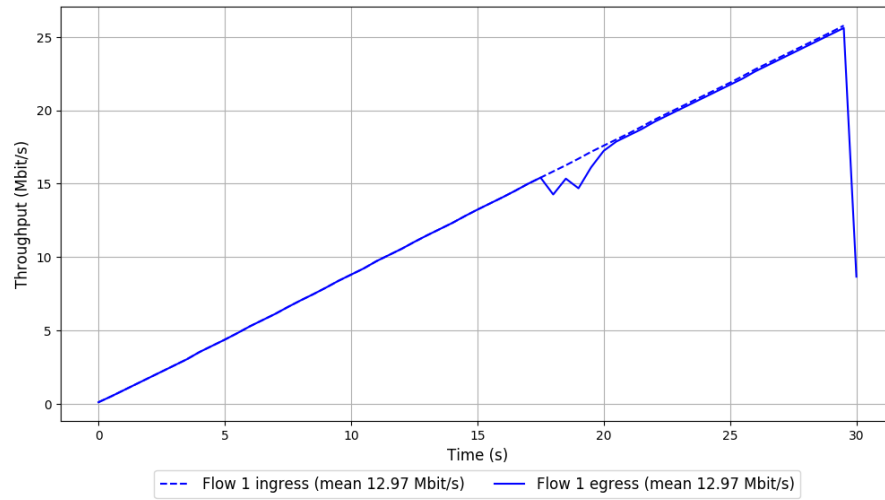
Average throughput: 12.97 Mbit/s

95th percentile per-packet one-way delay: 86.890 ms

Loss rate: 0.00%



### Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-12-11 15:32:25

End at: 2017-12-11 15:32:55

Local clock offset: -0.489 ms

Remote clock offset: 1.858 ms

# Below is generated by plot.py at 2017-12-11 17:34:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.52 Mbit/s

95th percentile per-packet one-way delay: 90.423 ms

Loss rate: 0.00%

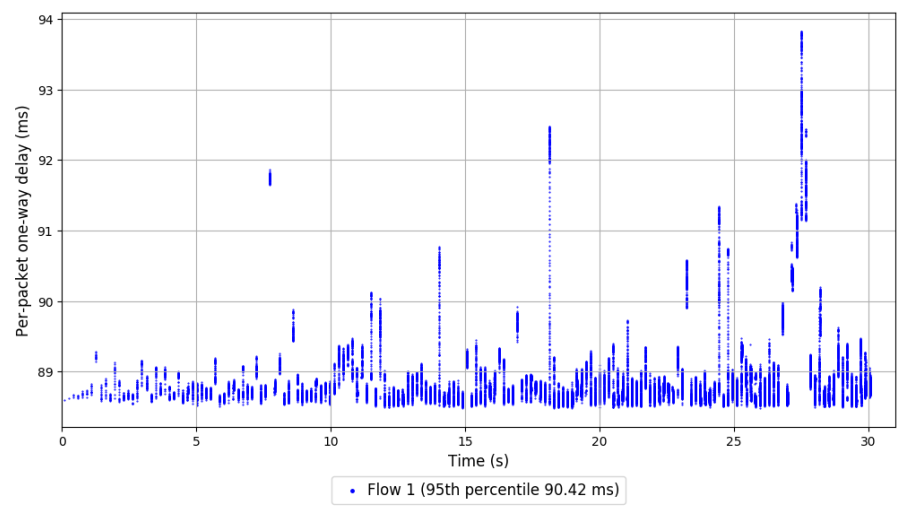
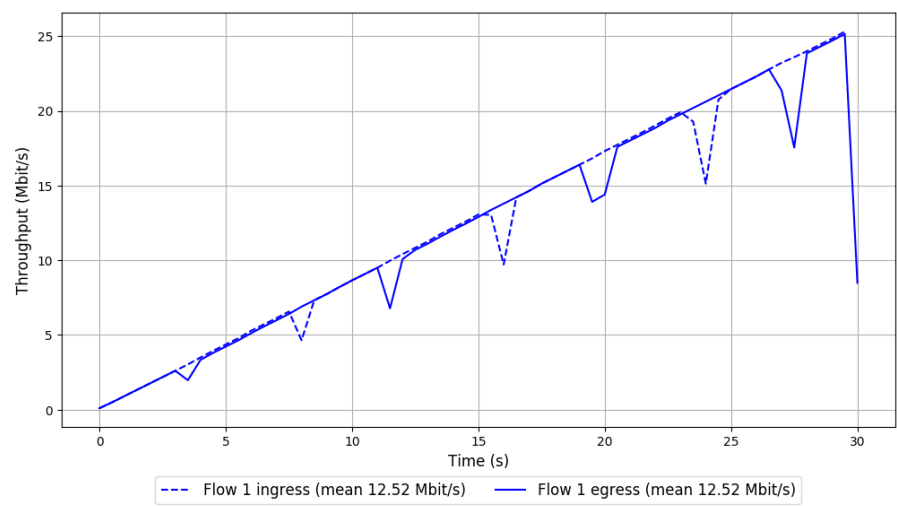
-- Flow 1:

Average throughput: 12.52 Mbit/s

95th percentile per-packet one-way delay: 90.423 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

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

End at: 2017-12-11 15:50:43

Local clock offset: -0.531 ms

Remote clock offset: 2.381 ms

# Below is generated by plot.py at 2017-12-11 17:34:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.00 Mbit/s

95th percentile per-packet one-way delay: 88.172 ms

Loss rate: 0.00%

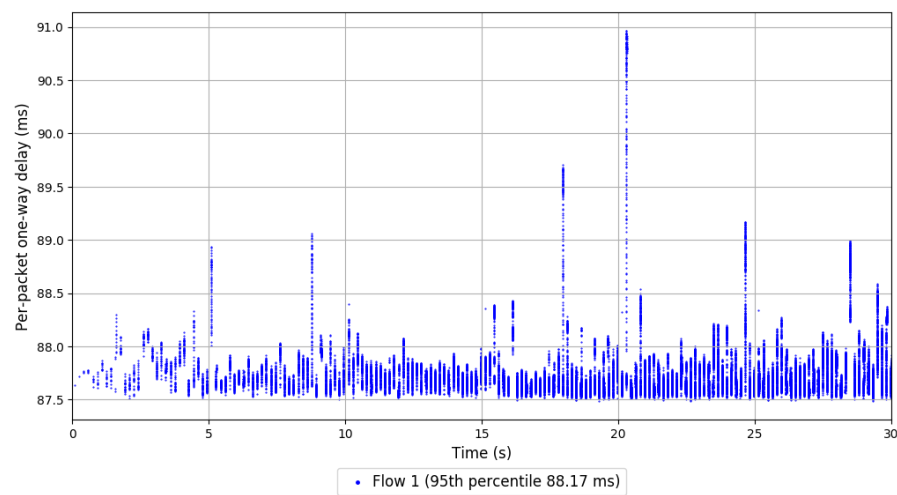
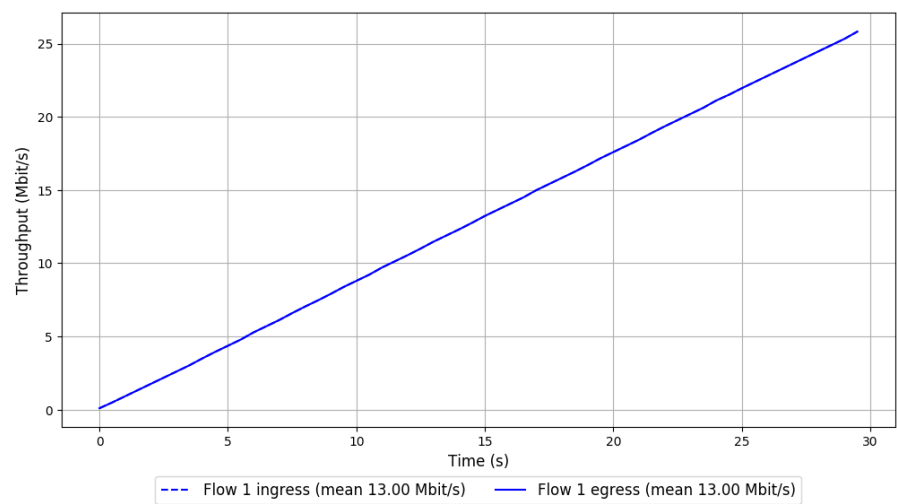
-- Flow 1:

Average throughput: 13.00 Mbit/s

95th percentile per-packet one-way delay: 88.172 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link

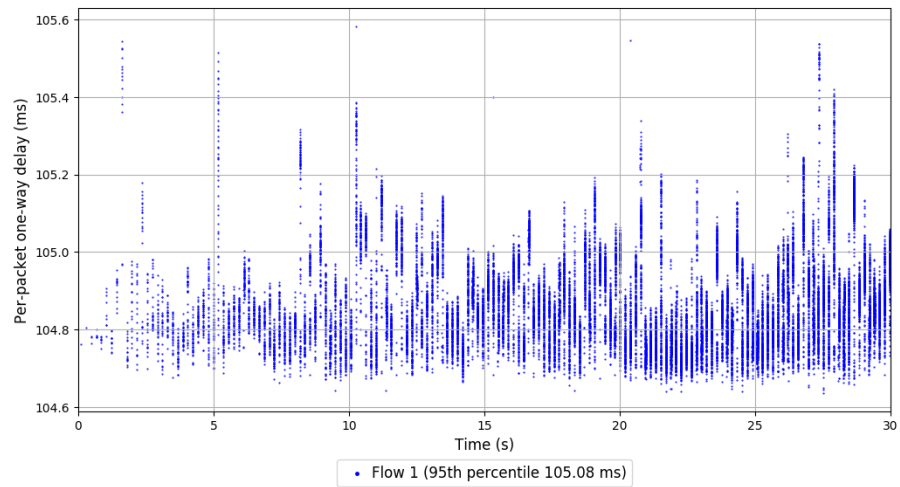
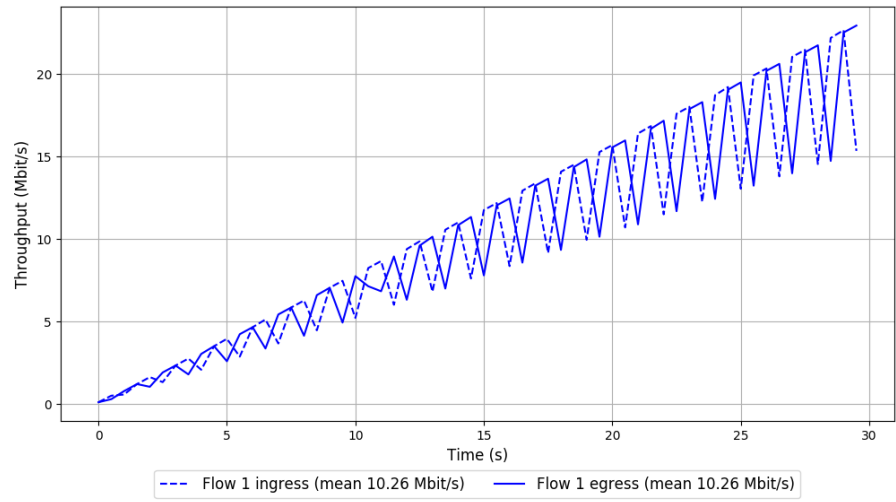


Run 8: Statistics of LEDBAT

Start at: 2017-12-11 16:08:27  
End at: 2017-12-11 16:08:57  
Local clock offset: -0.465 ms  
Remote clock offset: -0.635 ms

# Below is generated by plot.py at 2017-12-11 17:34:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 10.26 Mbit/s  
95th percentile per-packet one-way delay: 105.084 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 10.26 Mbit/s  
95th percentile per-packet one-way delay: 105.084 ms  
Loss rate: 0.00%

# Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-12-11 16:26:36

End at: 2017-12-11 16:27:06

Local clock offset: -0.376 ms

Remote clock offset: 2.947 ms

# Below is generated by plot.py at 2017-12-11 17:34:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.53 Mbit/s

95th percentile per-packet one-way delay: 90.024 ms

Loss rate: 0.00%

-- Flow 1:

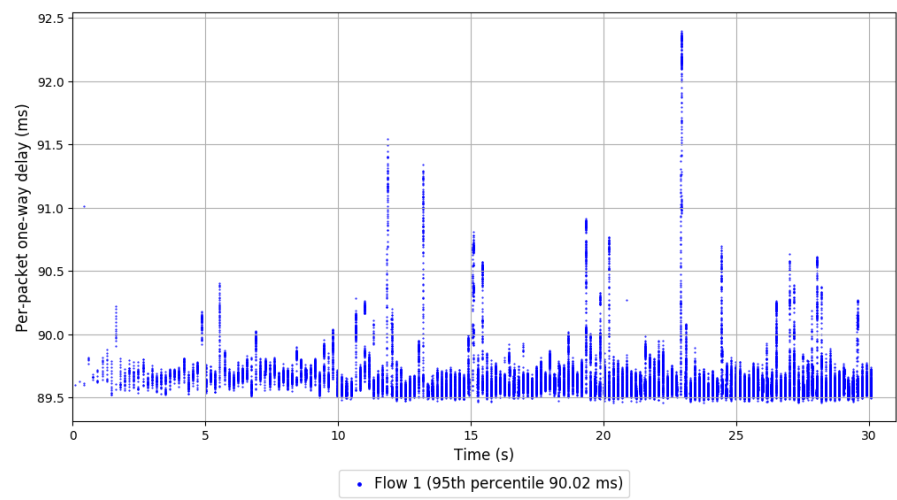
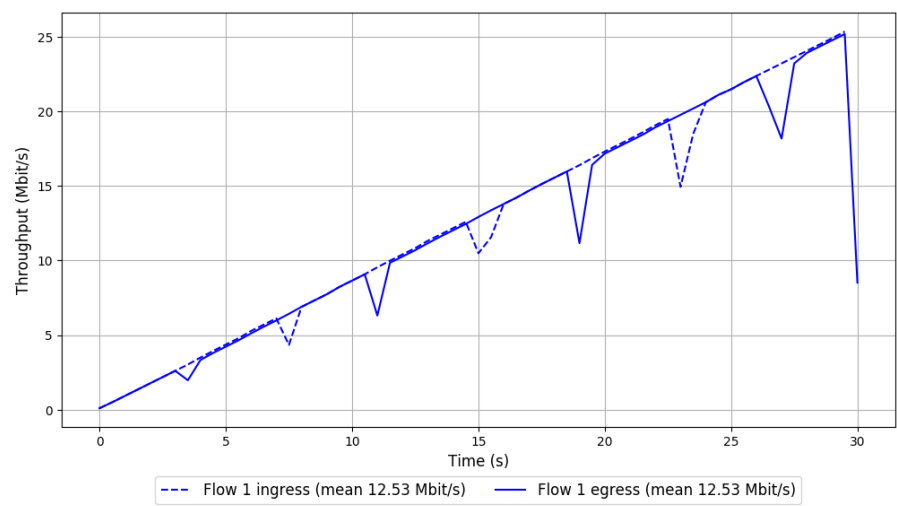
Average throughput: 12.53 Mbit/s

95th percentile per-packet one-way delay: 90.024 ms

Loss rate: 0.00%



Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-12-11 16:44:36

End at: 2017-12-11 16:45:06

Local clock offset: -0.373 ms

Remote clock offset: 0.116 ms

# Below is generated by plot.py at 2017-12-11 17:34:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.69 Mbit/s

95th percentile per-packet one-way delay: 85.427 ms

Loss rate: 0.00%

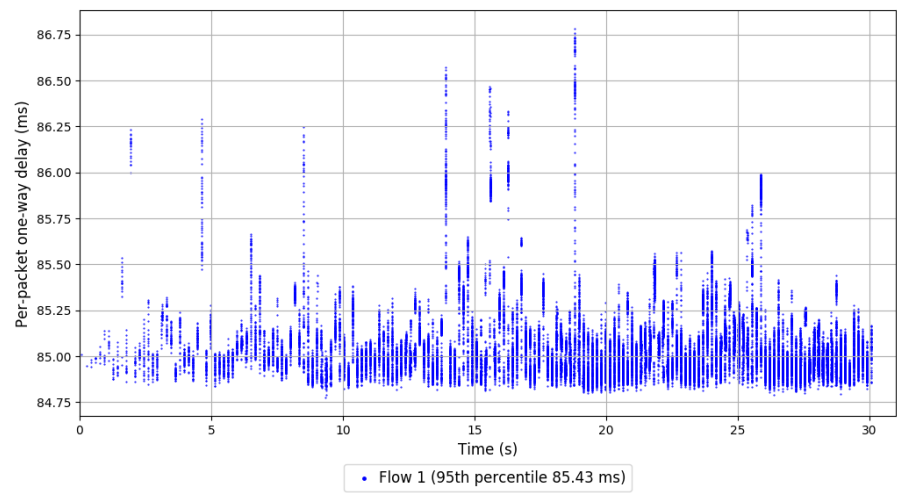
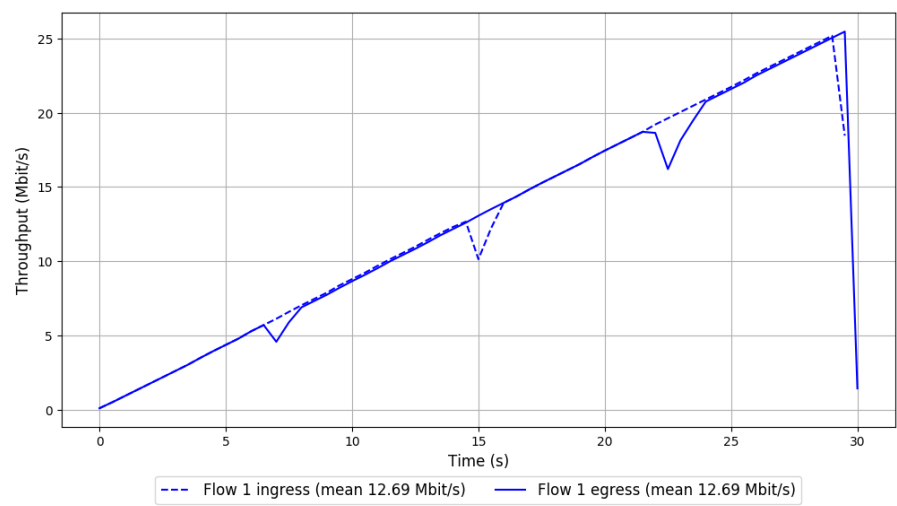
-- Flow 1:

Average throughput: 12.69 Mbit/s

95th percentile per-packet one-way delay: 85.427 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

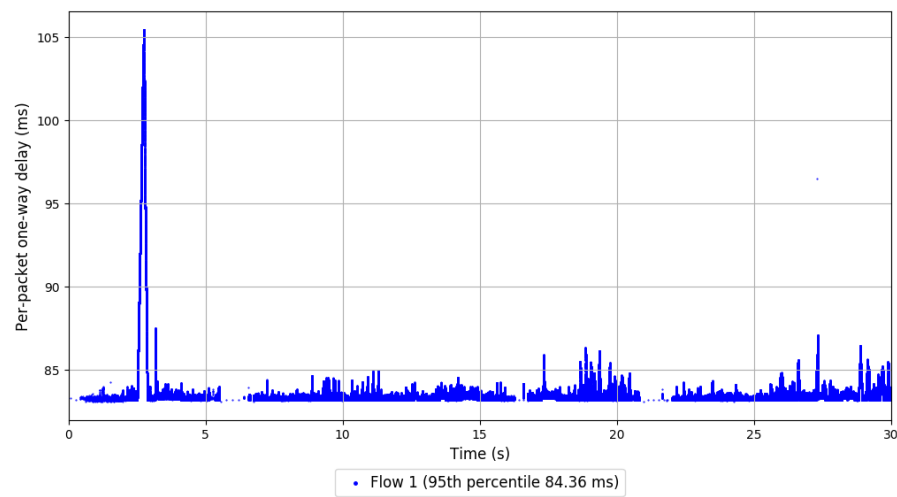
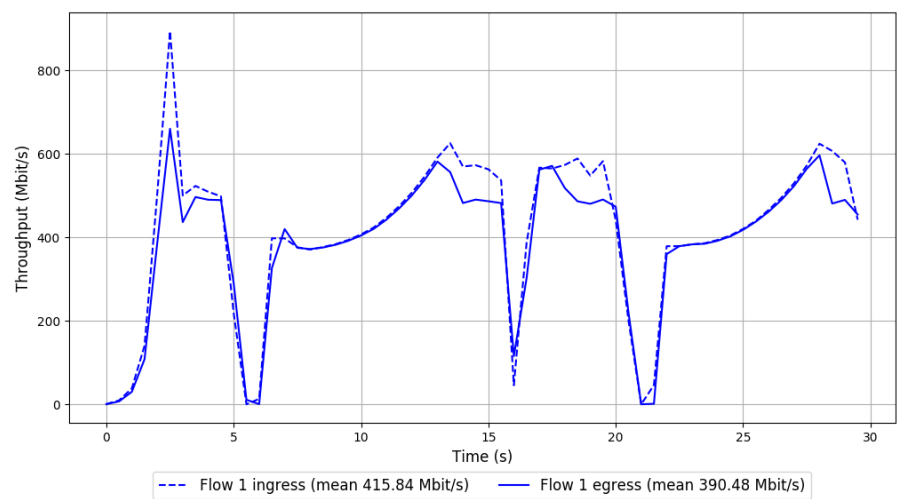


Run 1: Statistics of PCC

Start at: 2017-12-11 13:57:36  
End at: 2017-12-11 13:58:06  
Local clock offset: -0.317 ms  
Remote clock offset: -4.994 ms

# Below is generated by plot.py at 2017-12-11 17:38:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 390.48 Mbit/s  
95th percentile per-packet one-way delay: 84.363 ms  
Loss rate: 6.10%  
-- Flow 1:  
Average throughput: 390.48 Mbit/s  
95th percentile per-packet one-way delay: 84.363 ms  
Loss rate: 6.10%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-12-11 14:15:44

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

Local clock offset: -0.388 ms

Remote clock offset: 1.125 ms

# Below is generated by plot.py at 2017-12-11 17:38:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 396.53 Mbit/s

95th percentile per-packet one-way delay: 89.850 ms

Loss rate: 5.02%

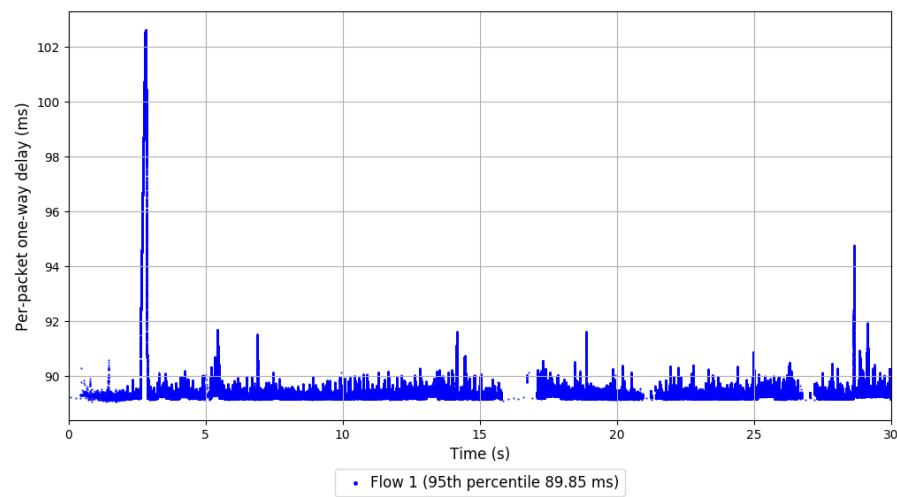
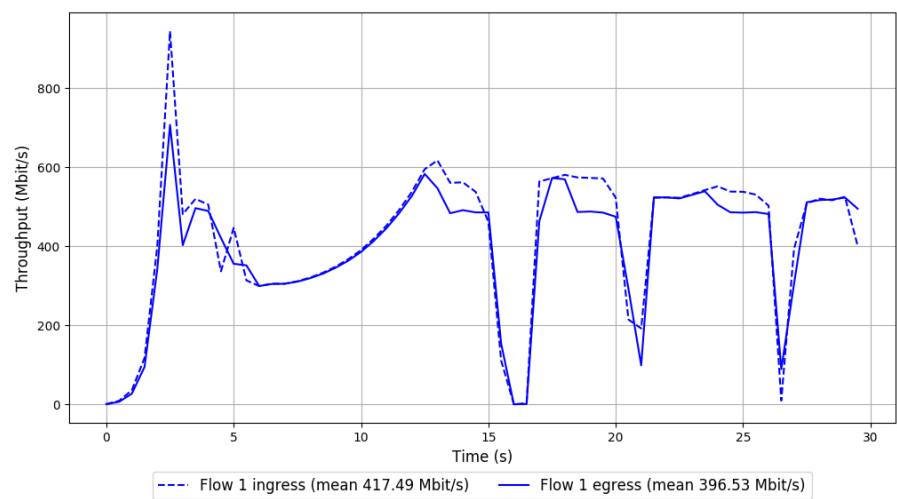
-- Flow 1:

Average throughput: 396.53 Mbit/s

95th percentile per-packet one-way delay: 89.850 ms

Loss rate: 5.02%

Run 2: Report of PCC — Data Link



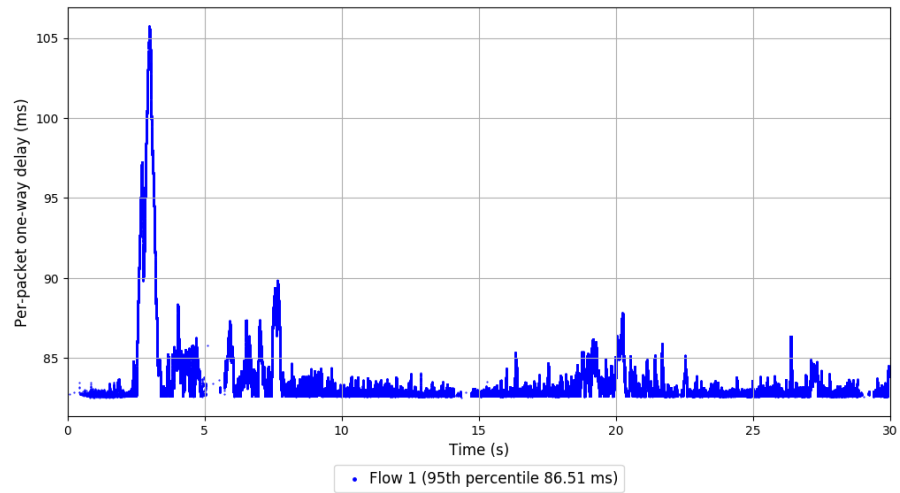
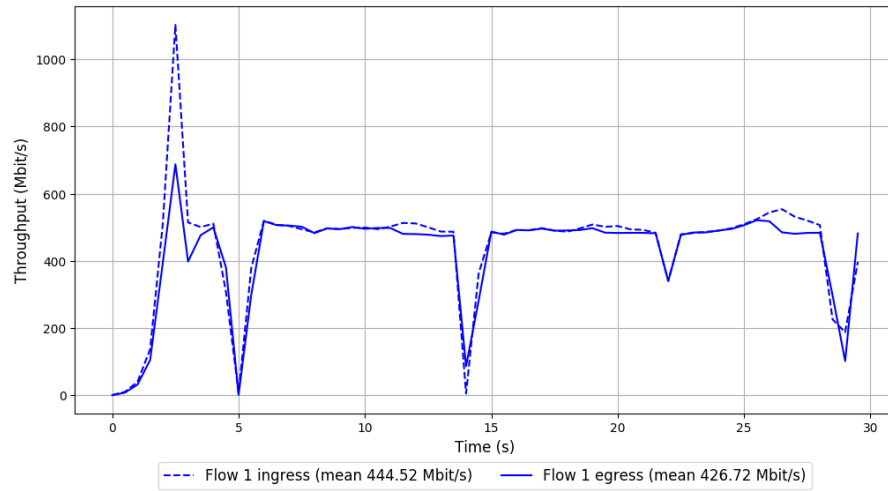
Run 3: Statistics of PCC

Start at: 2017-12-11 14:33:36  
End at: 2017-12-11 14:34:06  
Local clock offset: -0.384 ms  
Remote clock offset: -5.028 ms

# Below is generated by plot.py at 2017-12-11 17:39:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 426.72 Mbit/s  
95th percentile per-packet one-way delay: 86.513 ms  
Loss rate: 4.00%  
-- Flow 1:  
Average throughput: 426.72 Mbit/s  
95th percentile per-packet one-way delay: 86.513 ms  
Loss rate: 4.00%



### Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

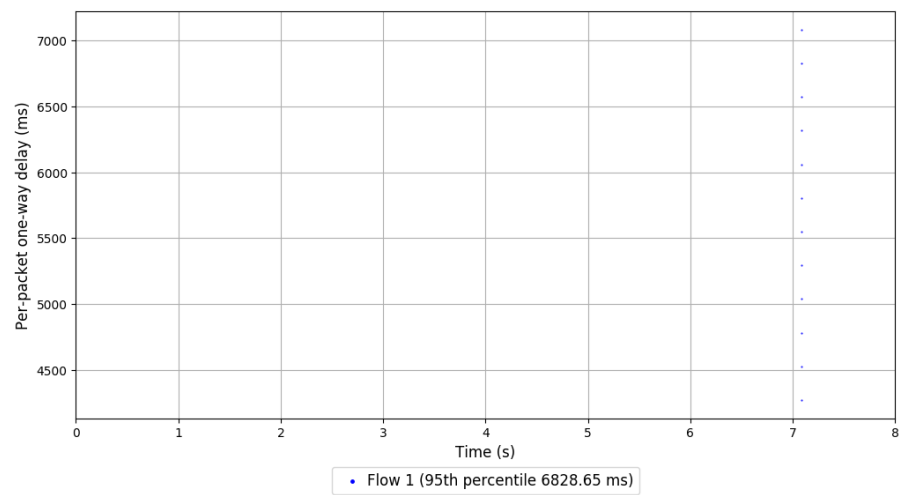
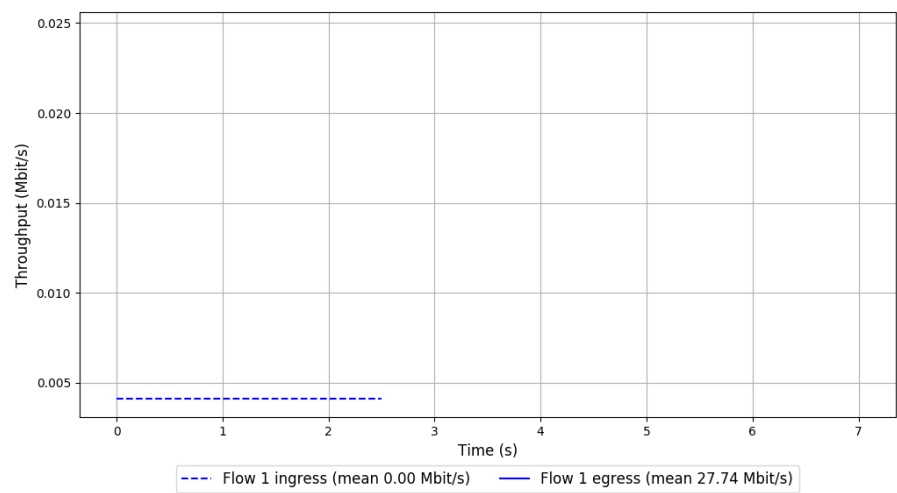
Start at: 2017-12-11 14:51:39

End at: 2017-12-11 14:52:09

Local clock offset: -0.455 ms

Remote clock offset: 0.644 ms

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-12-11 15:09:26

End at: 2017-12-11 15:09:56

Local clock offset: -0.532 ms

Remote clock offset: 0.845 ms

# Below is generated by plot.py at 2017-12-11 17:39:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 441.02 Mbit/s

95th percentile per-packet one-way delay: 92.180 ms

Loss rate: 3.67%

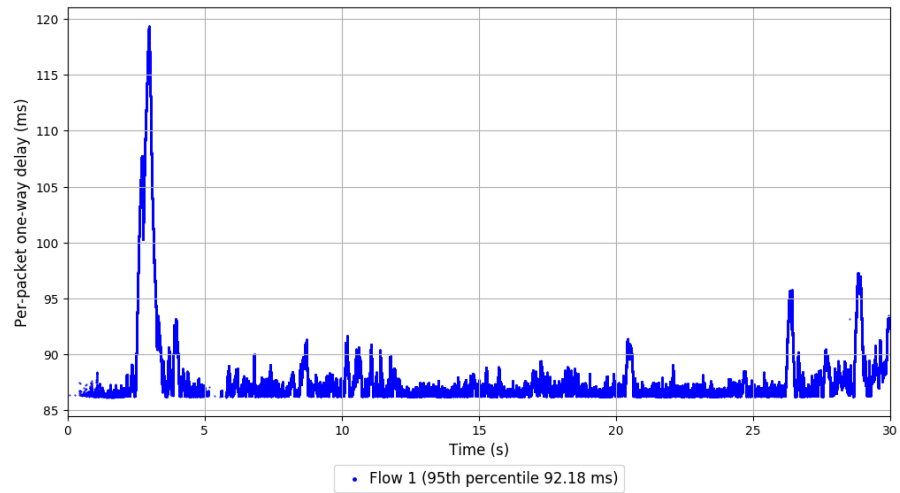
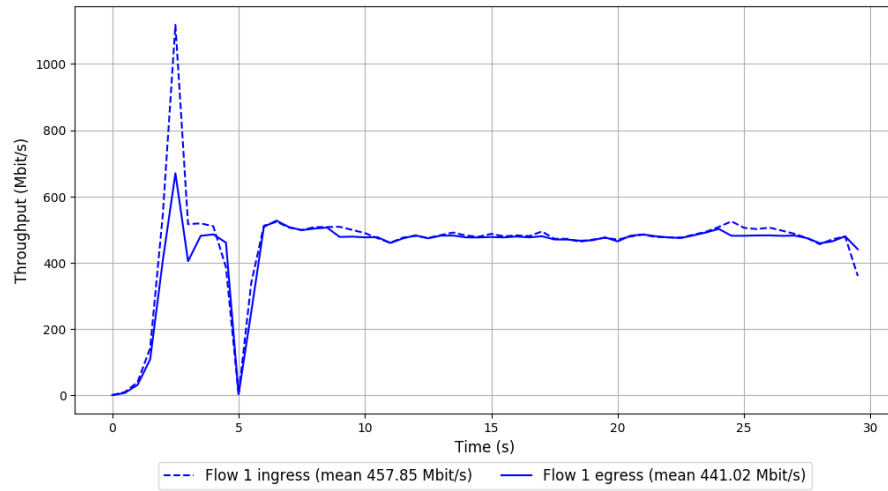
-- Flow 1:

Average throughput: 441.02 Mbit/s

95th percentile per-packet one-way delay: 92.180 ms

Loss rate: 3.67%

### Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

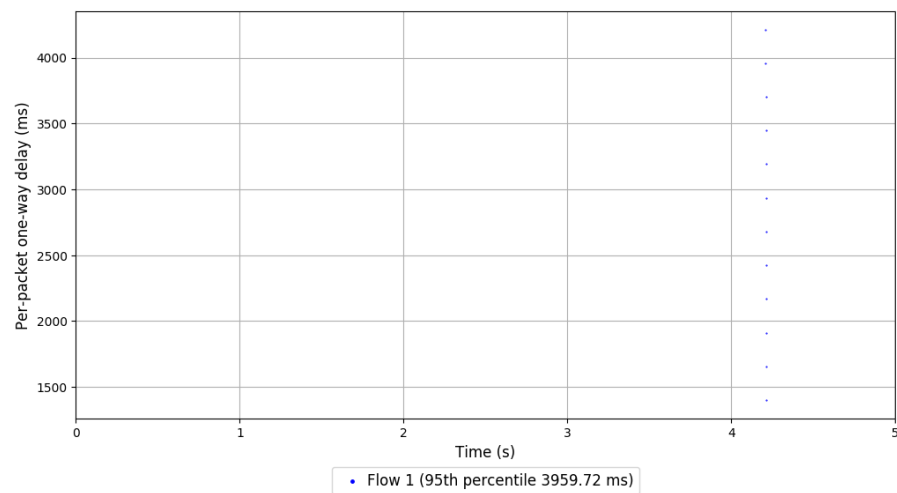
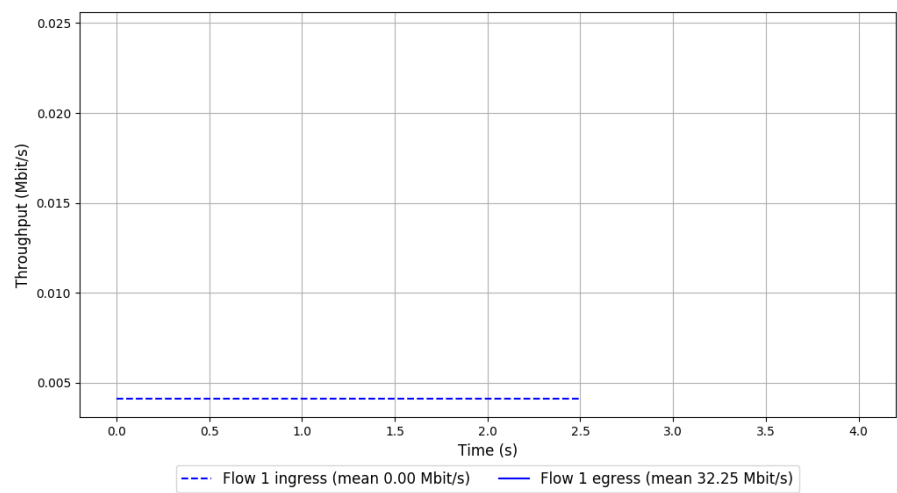
Start at: 2017-12-11 15:27:26

End at: 2017-12-11 15:27:56

Local clock offset: -0.475 ms

Remote clock offset: -4.339 ms

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-12-11 15:44:51

End at: 2017-12-11 15:45:21

Local clock offset: -0.455 ms

Remote clock offset: -41.9 ms

# Below is generated by plot.py at 2017-12-11 17:39:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 380.03 Mbit/s

95th percentile per-packet one-way delay: 74.813 ms

Loss rate: 3.64%

-- Flow 1:

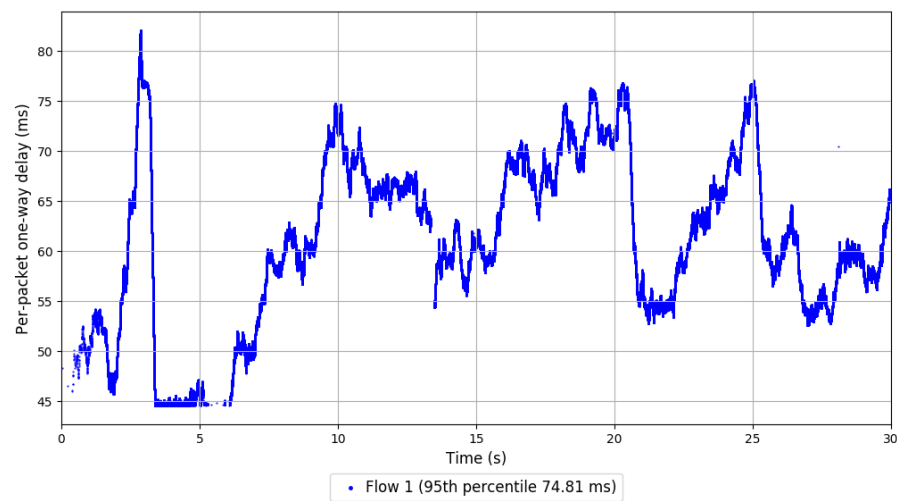
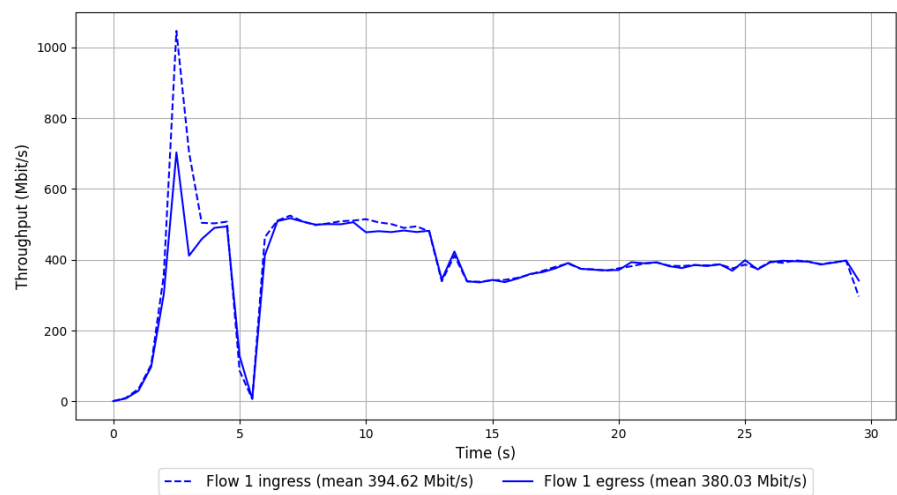
Average throughput: 380.03 Mbit/s

95th percentile per-packet one-way delay: 74.813 ms

Loss rate: 3.64%



Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-12-11 16:03:07

End at: 2017-12-11 16:03:37

Local clock offset: -0.473 ms

Remote clock offset: 4.078 ms

# Below is generated by plot.py at 2017-12-11 17:39:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 379.07 Mbit/s

95th percentile per-packet one-way delay: 91.494 ms

Loss rate: 8.88%

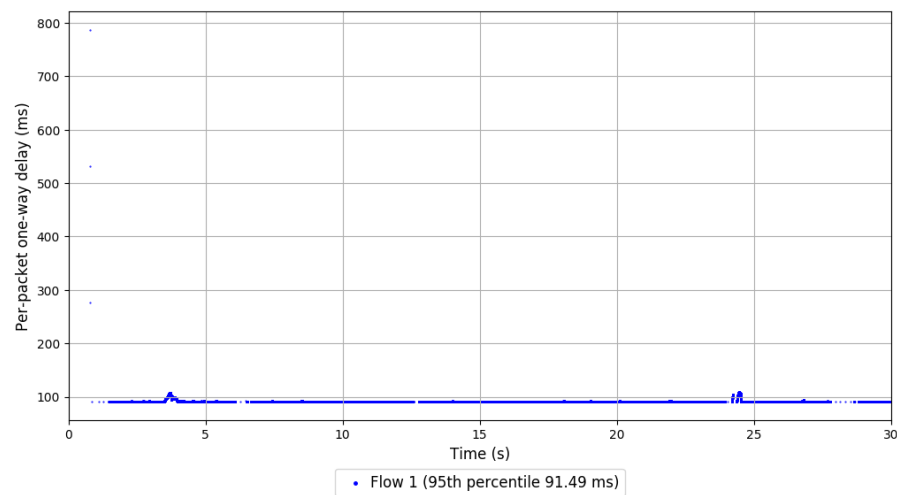
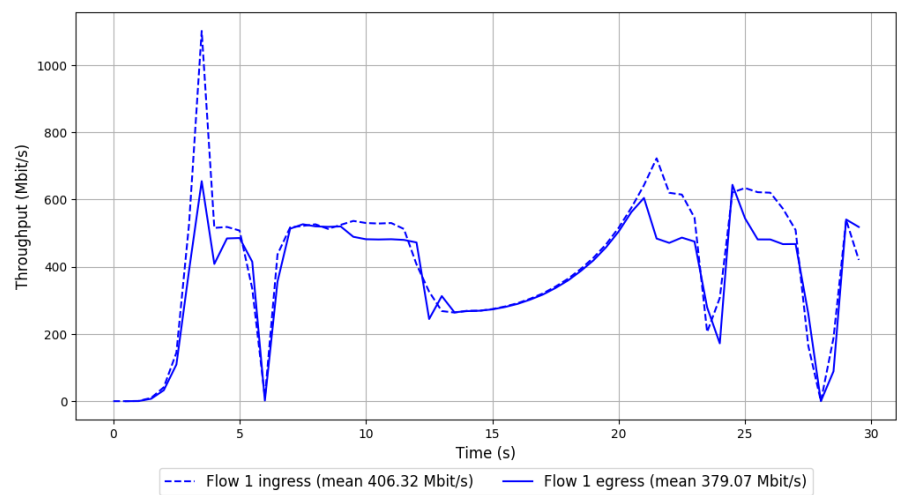
-- Flow 1:

Average throughput: 379.07 Mbit/s

95th percentile per-packet one-way delay: 91.494 ms

Loss rate: 8.88%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-12-11 16:21:17

End at: 2017-12-11 16:21:47

Local clock offset: -0.521 ms

Remote clock offset: -0.25 ms

# Below is generated by plot.py at 2017-12-11 17:39:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 347.71 Mbit/s

95th percentile per-packet one-way delay: 86.443 ms

Loss rate: 8.17%

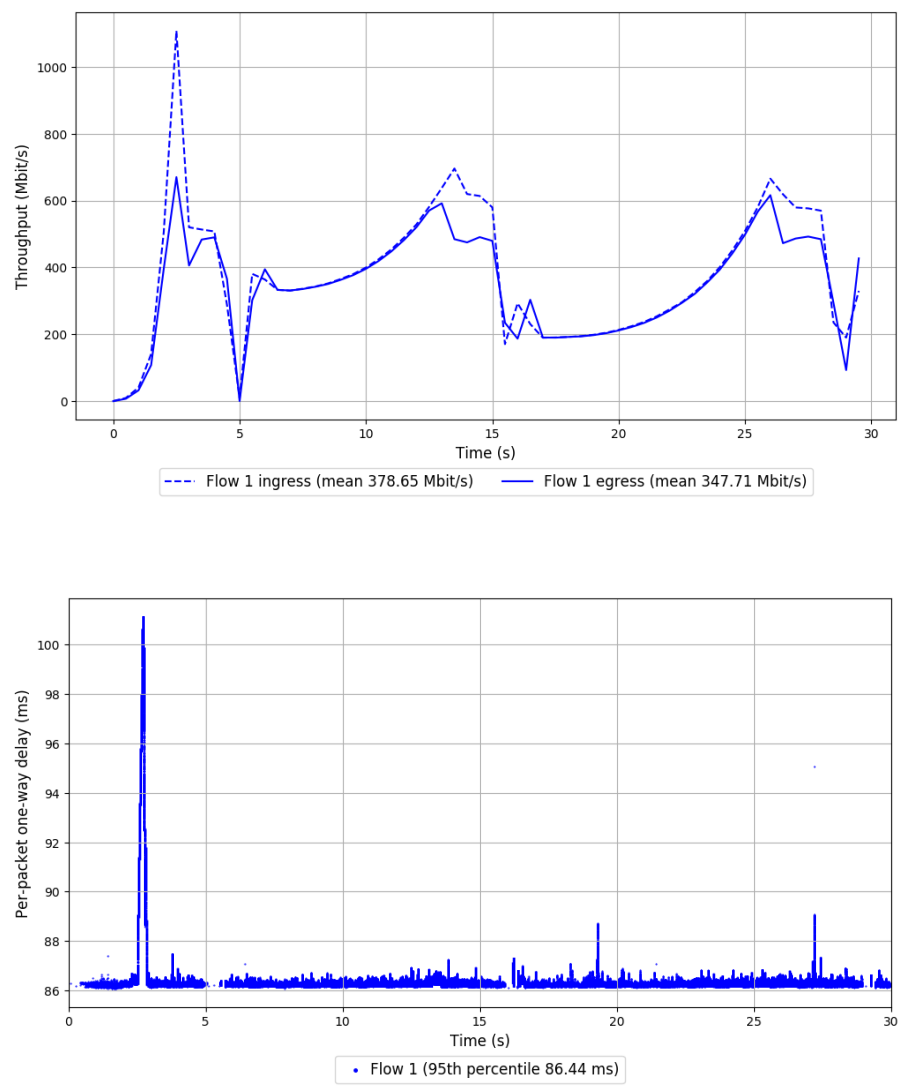
-- Flow 1:

Average throughput: 347.71 Mbit/s

95th percentile per-packet one-way delay: 86.443 ms

Loss rate: 8.17%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-12-11 16:39:18

End at: 2017-12-11 16:39:48

Local clock offset: -0.388 ms

Remote clock offset: -4.88 ms

# Below is generated by plot.py at 2017-12-11 17:39:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 348.80 Mbit/s

95th percentile per-packet one-way delay: 81.953 ms

Loss rate: 6.83%

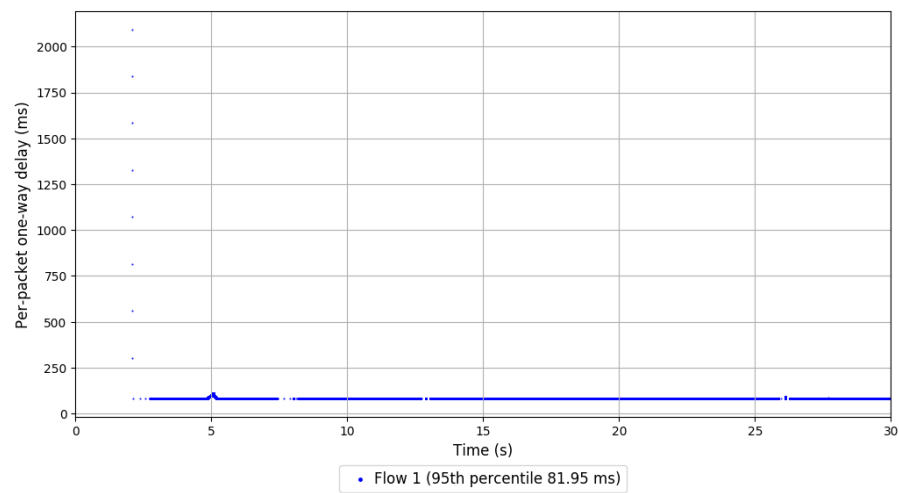
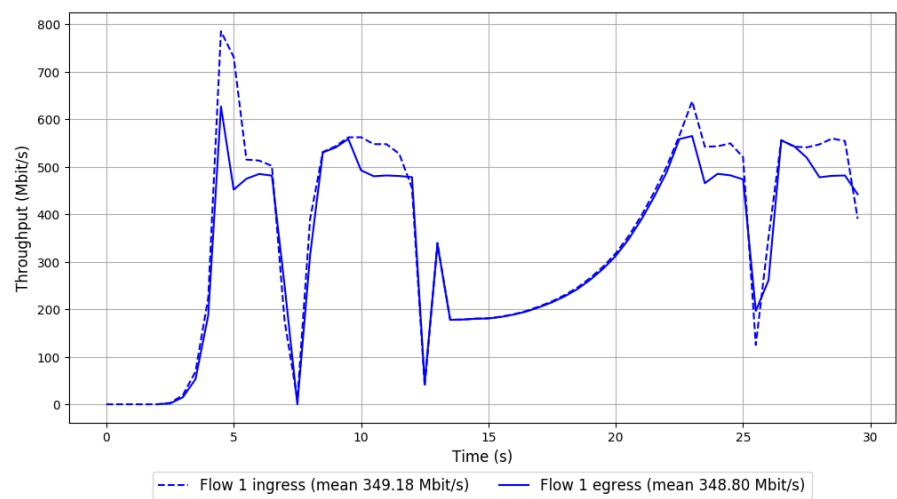
-- Flow 1:

Average throughput: 348.80 Mbit/s

95th percentile per-packet one-way delay: 81.953 ms

Loss rate: 6.83%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2017-12-11 13:55:11

End at: 2017-12-11 13:55:41

Local clock offset: -0.302 ms

Remote clock offset: 0.742 ms

# Below is generated by plot.py at 2017-12-11 17:40:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.98 Mbit/s

95th percentile per-packet one-way delay: 89.140 ms

Loss rate: 0.00%

-- Flow 1:

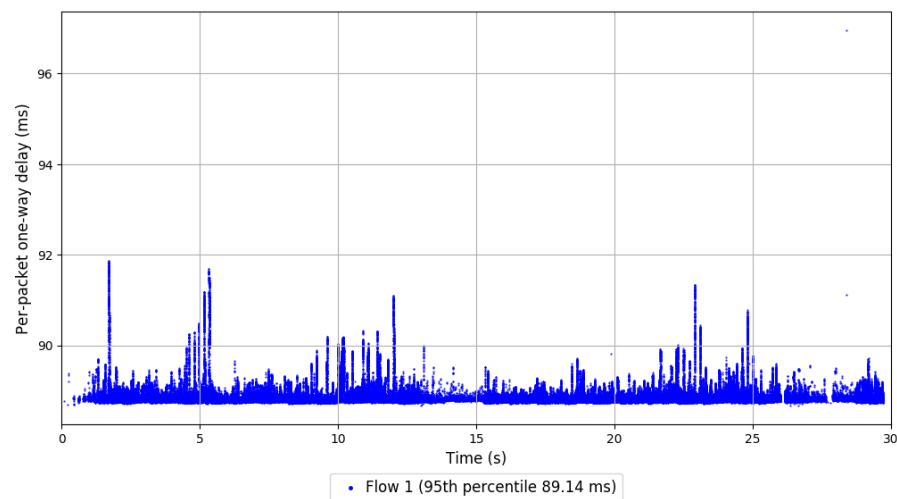
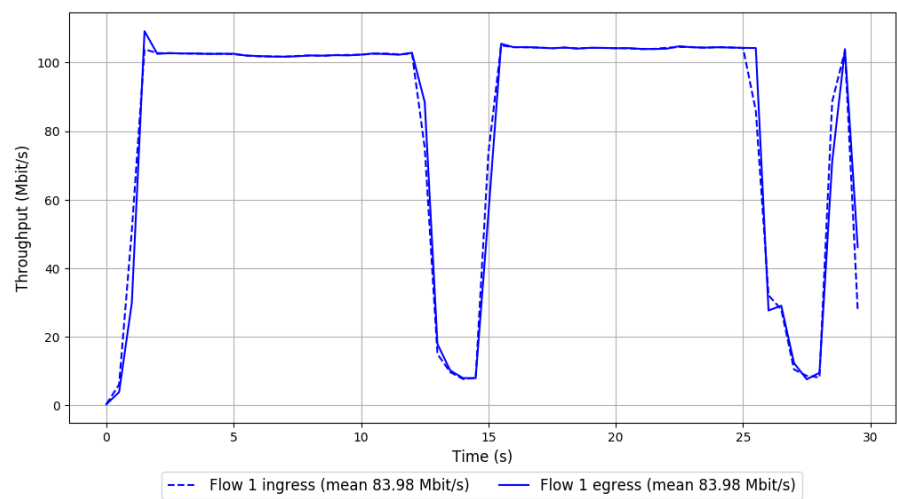
Average throughput: 83.98 Mbit/s

95th percentile per-packet one-way delay: 89.140 ms

Loss rate: 0.00%



Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-12-11 14:13:19

End at: 2017-12-11 14:13:49

Local clock offset: -0.372 ms

Remote clock offset: -4.72 ms

# Below is generated by plot.py at 2017-12-11 17:40:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.05 Mbit/s

95th percentile per-packet one-way delay: 81.711 ms

Loss rate: 0.00%

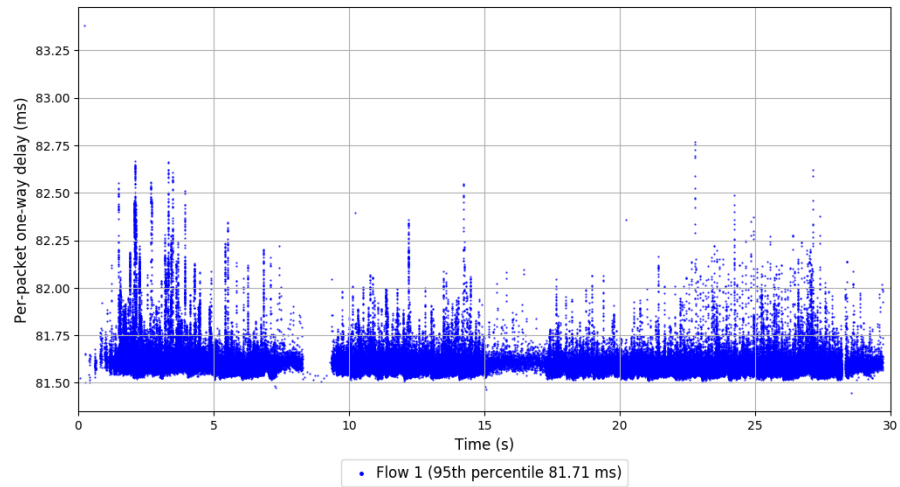
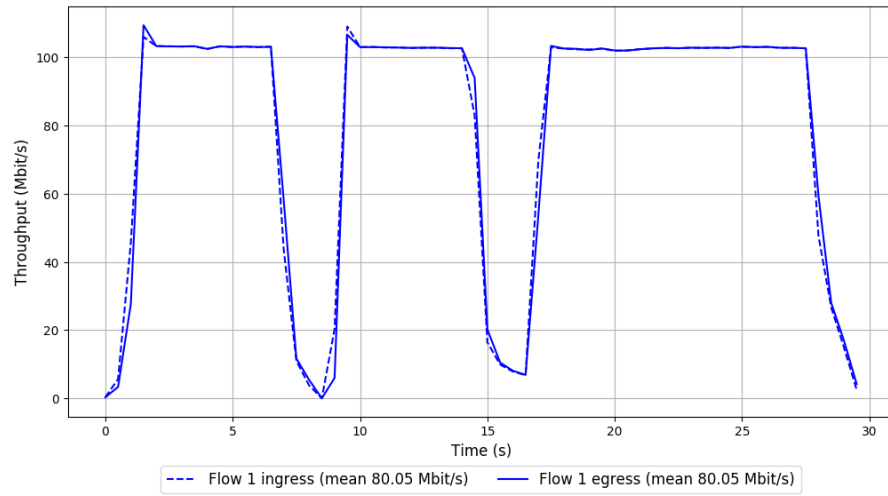
-- Flow 1:

Average throughput: 80.05 Mbit/s

95th percentile per-packet one-way delay: 81.711 ms

Loss rate: 0.00%

## Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

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

End at: 2017-12-11 14:31:42

Local clock offset: -0.432 ms

Remote clock offset: 1.426 ms

# Below is generated by plot.py at 2017-12-11 17:40:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.09 Mbit/s

95th percentile per-packet one-way delay: 89.924 ms

Loss rate: 0.00%

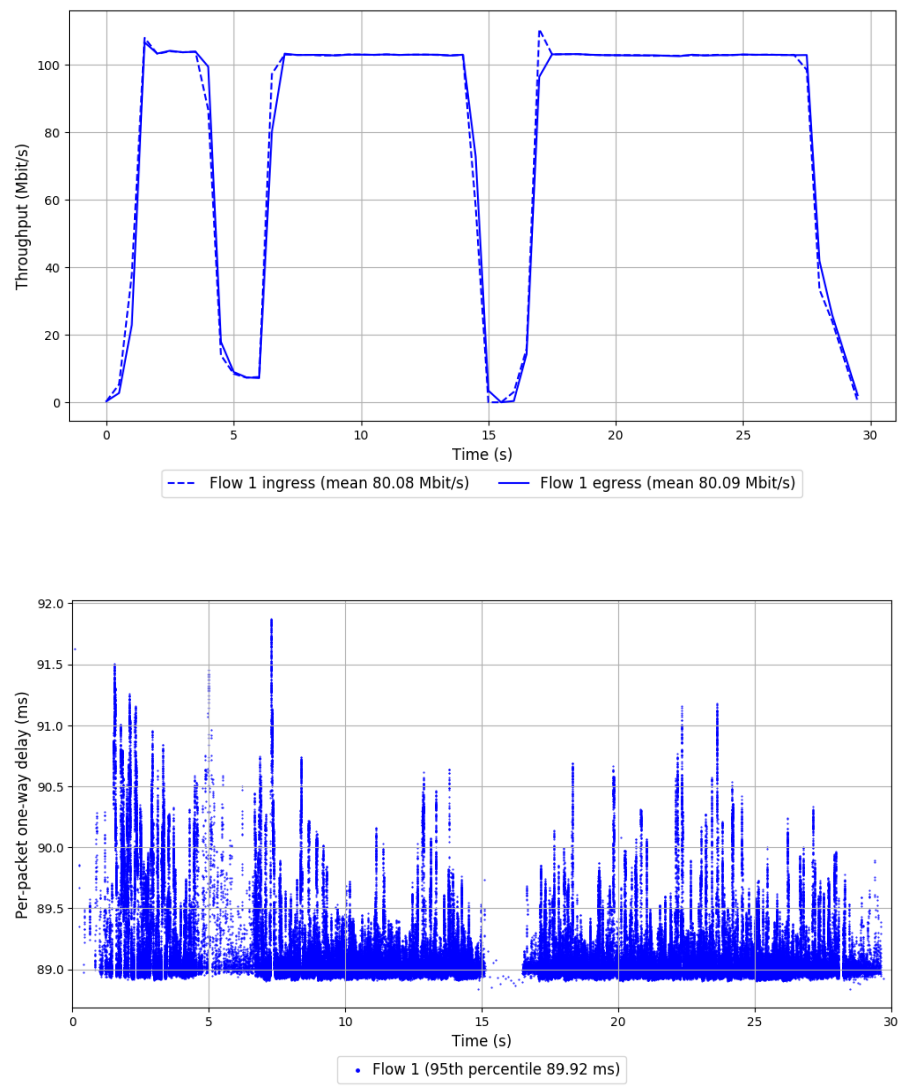
-- Flow 1:

Average throughput: 80.09 Mbit/s

95th percentile per-packet one-way delay: 89.924 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-12-11 14:49:16

End at: 2017-12-11 14:49:46

Local clock offset: -0.444 ms

Remote clock offset: 1.405 ms

# Below is generated by plot.py at 2017-12-11 17:40:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 70.93 Mbit/s

95th percentile per-packet one-way delay: 89.246 ms

Loss rate: 0.00%

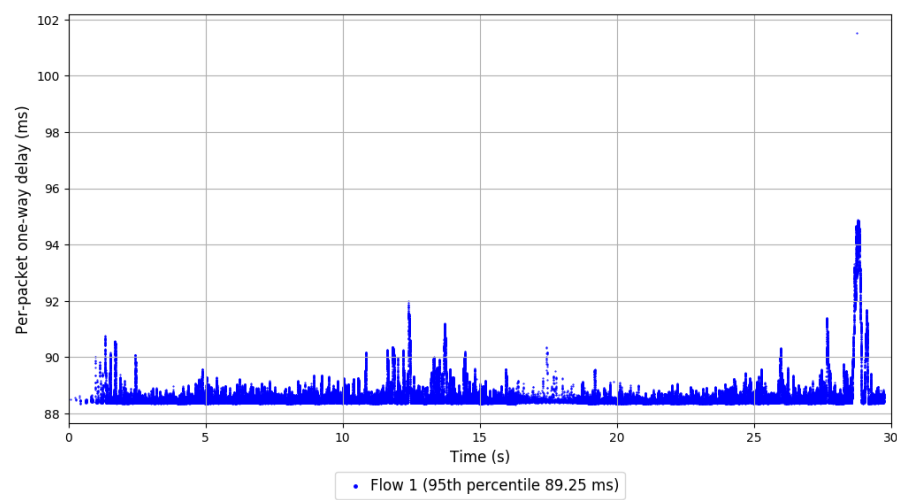
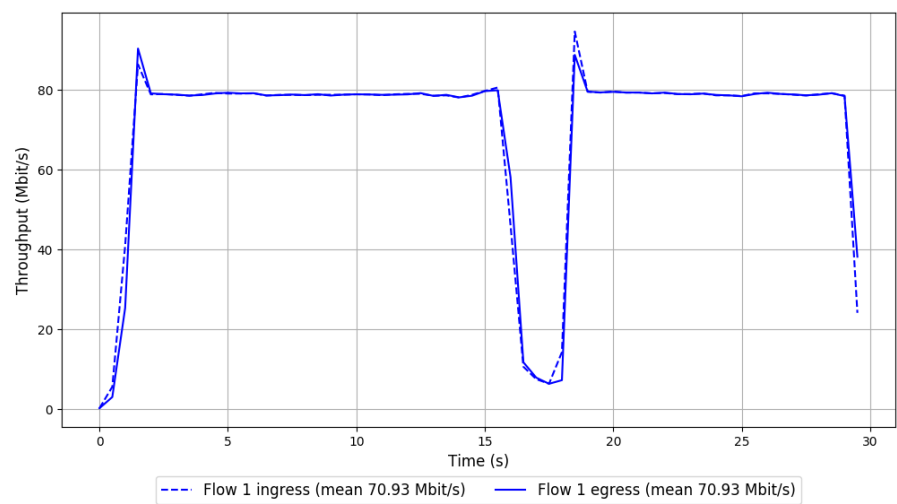
-- Flow 1:

Average throughput: 70.93 Mbit/s

95th percentile per-packet one-way delay: 89.246 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-12-11 15:07:03

End at: 2017-12-11 15:07:33

Local clock offset: -0.439 ms

Remote clock offset: -3.3 ms

# Below is generated by plot.py at 2017-12-11 17:40:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 82.50 Mbit/s

95th percentile per-packet one-way delay: 83.738 ms

Loss rate: 0.00%

-- Flow 1:

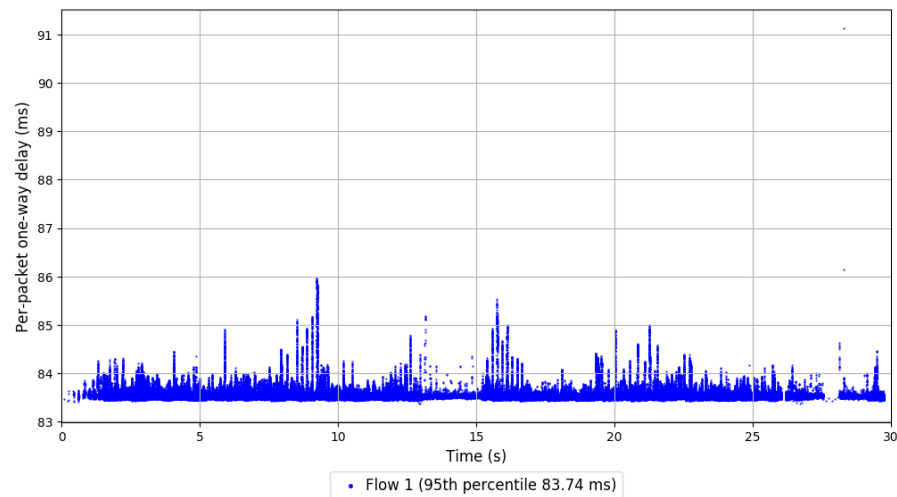
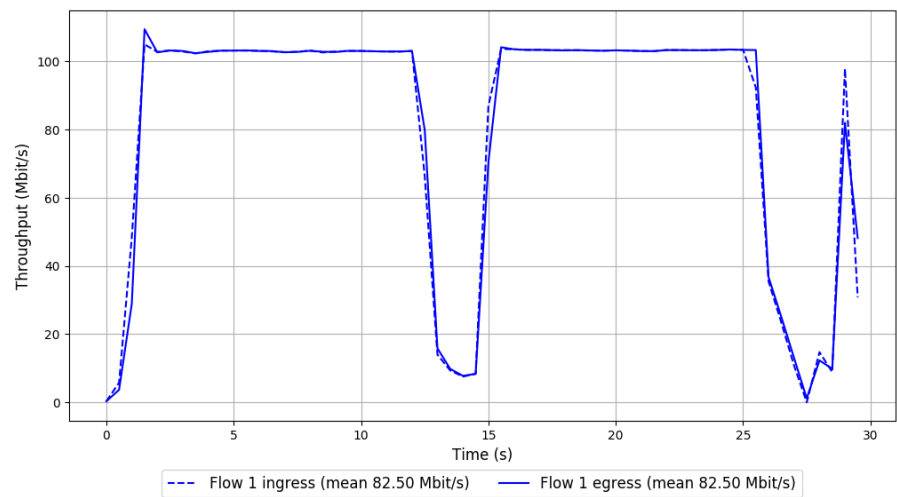
Average throughput: 82.50 Mbit/s

95th percentile per-packet one-way delay: 83.738 ms

Loss rate: 0.00%



Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-12-11 15:25:03

End at: 2017-12-11 15:25:33

Local clock offset: -0.465 ms

Remote clock offset: 0.405 ms

# Below is generated by plot.py at 2017-12-11 17:40:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 82.05 Mbit/s

95th percentile per-packet one-way delay: 87.531 ms

Loss rate: 0.00%

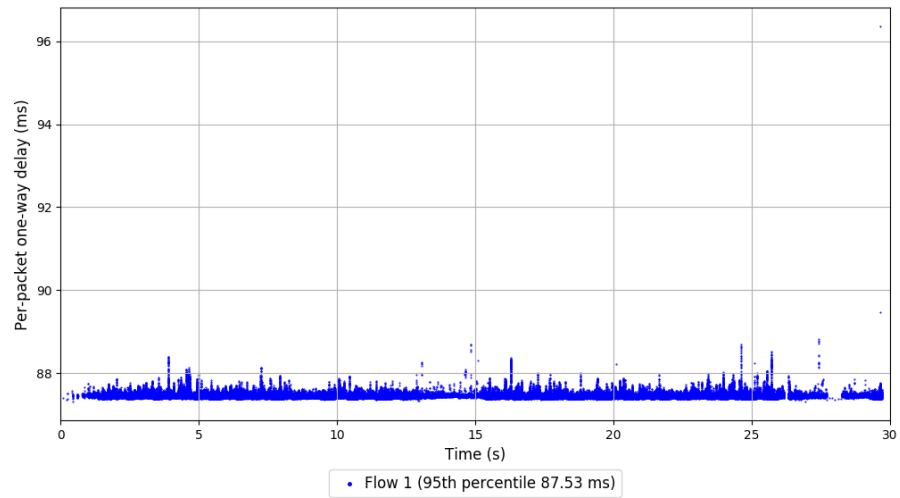
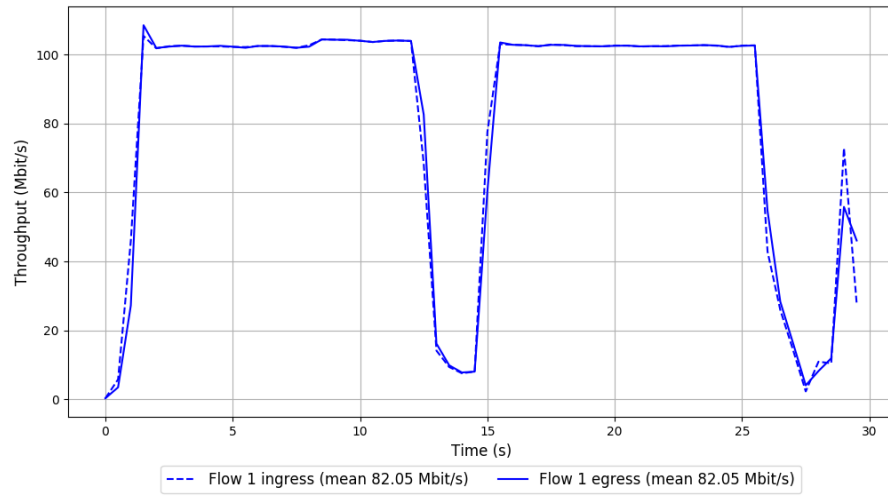
-- Flow 1:

Average throughput: 82.05 Mbit/s

95th percentile per-packet one-way delay: 87.531 ms

Loss rate: 0.00%

## Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-12-11 15:42:25

End at: 2017-12-11 15:42:55

Local clock offset: -0.554 ms

Remote clock offset: -3.88 ms

# Below is generated by plot.py at 2017-12-11 17:40:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 69.38 Mbit/s

95th percentile per-packet one-way delay: 90.207 ms

Loss rate: 0.00%

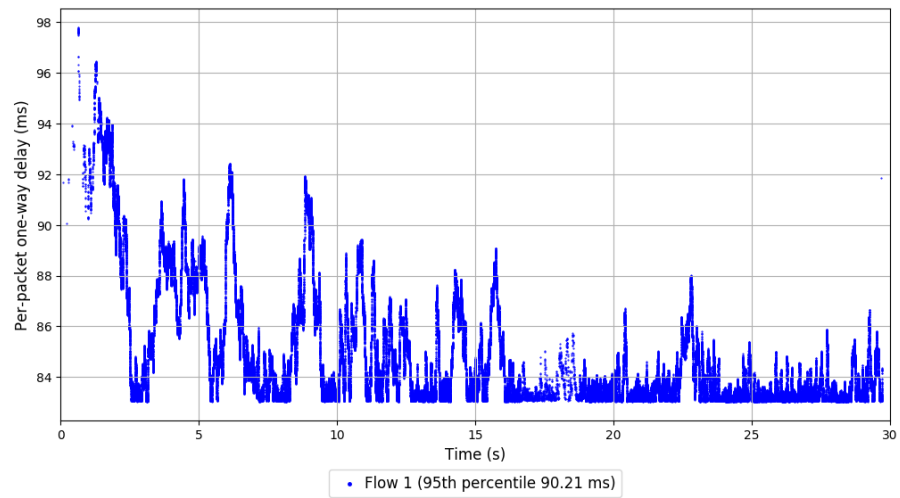
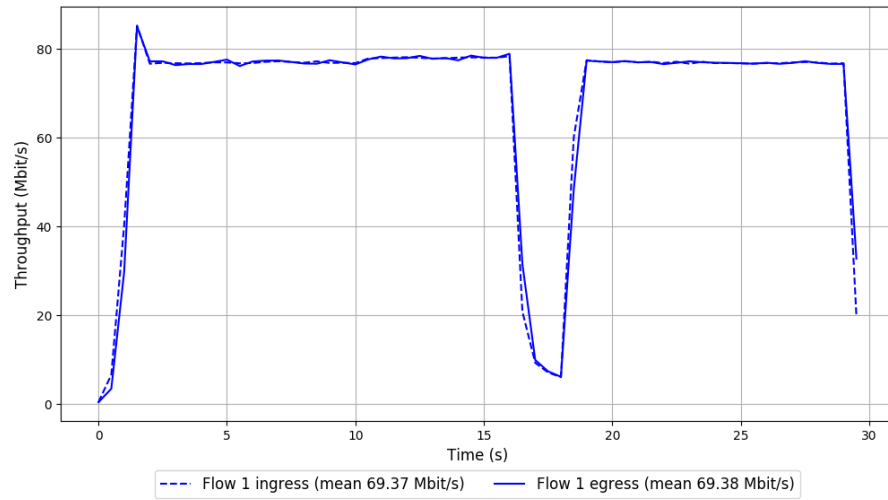
-- Flow 1:

Average throughput: 69.38 Mbit/s

95th percentile per-packet one-way delay: 90.207 ms

Loss rate: 0.00%

### Run 7: Report of QUIC Cubic — Data Link

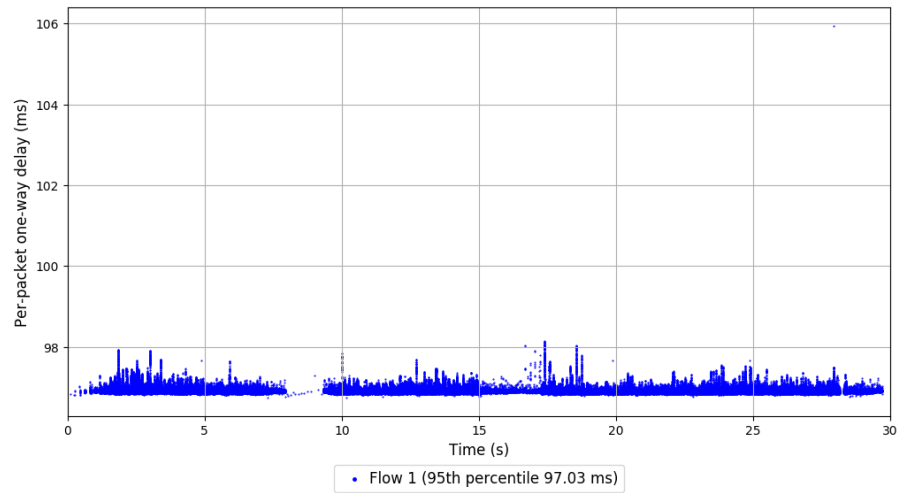
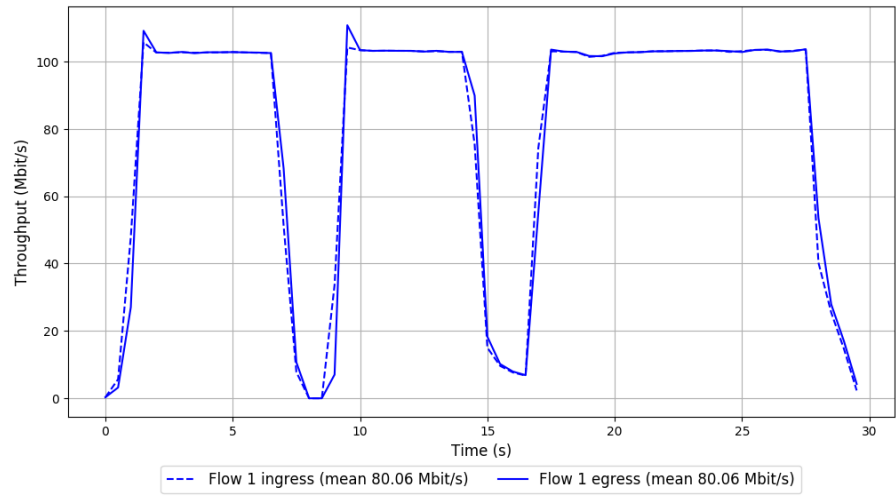


Run 8: Statistics of QUIC Cubic

Start at: 2017-12-11 16:00:42  
End at: 2017-12-11 16:01:12  
Local clock offset: -0.516 ms  
Remote clock offset: 11.673 ms

# Below is generated by plot.py at 2017-12-11 17:41:09  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 80.06 Mbit/s  
95th percentile per-packet one-way delay: 97.031 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 80.06 Mbit/s  
95th percentile per-packet one-way delay: 97.031 ms  
Loss rate: 0.00%

## Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-12-11 16:18:55

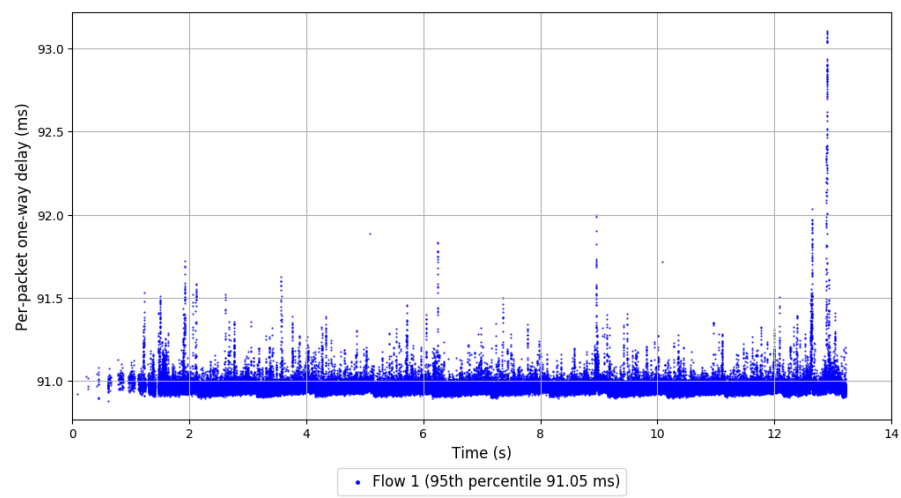
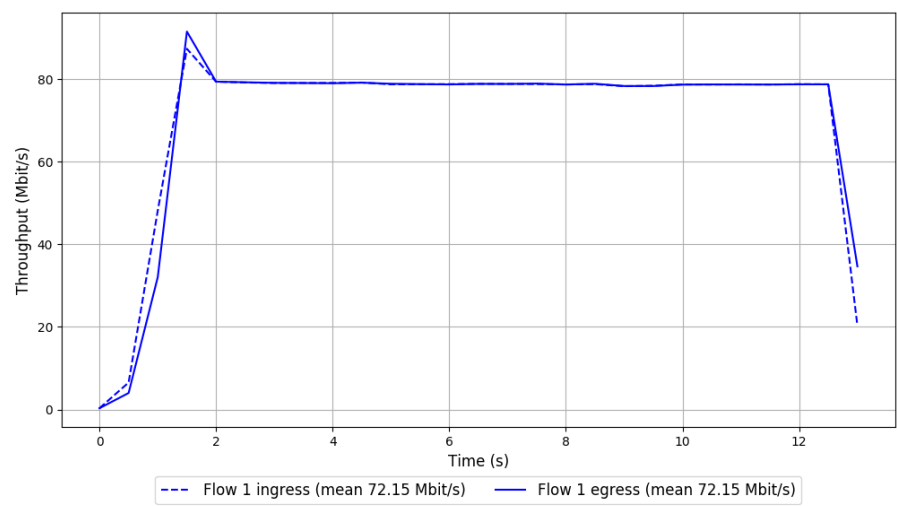
End at: 2017-12-11 16:19:25

Local clock offset: -0.408 ms

Remote clock offset: 4.208 ms



Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-12-11 16:36:53

End at: 2017-12-11 16:37:23

Local clock offset: -0.452 ms

Remote clock offset: -2.727 ms

# Below is generated by plot.py at 2017-12-11 17:41:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 68.14 Mbit/s

95th percentile per-packet one-way delay: 83.888 ms

Loss rate: 0.00%

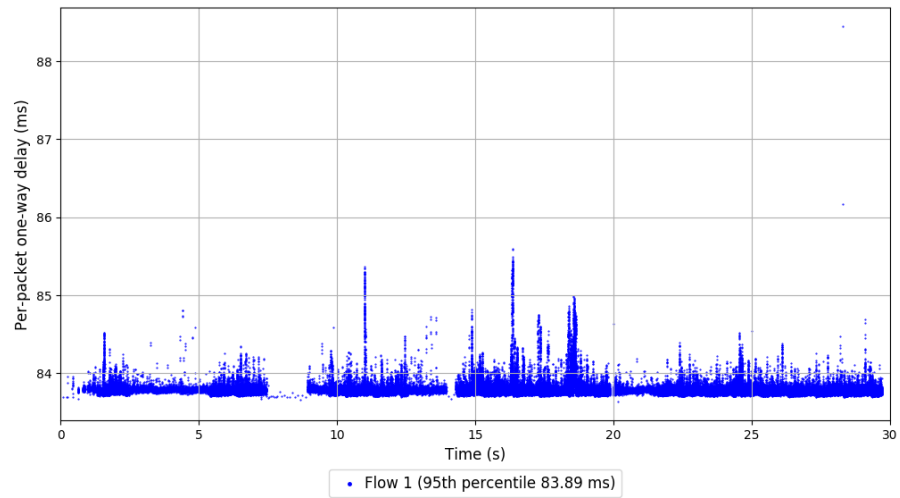
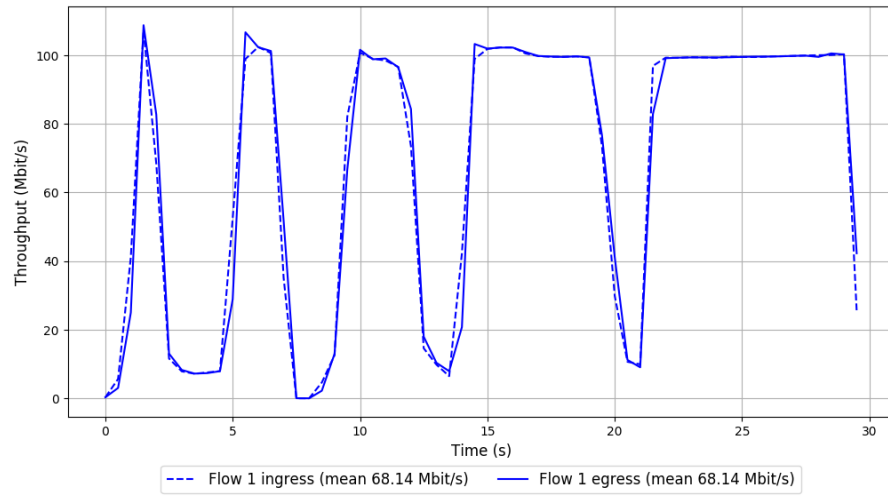
-- Flow 1:

Average throughput: 68.14 Mbit/s

95th percentile per-packet one-way delay: 83.888 ms

Loss rate: 0.00%

# Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2017-12-11 13:56:26

End at: 2017-12-11 13:56:56

Local clock offset: -0.306 ms

Remote clock offset: 1.084 ms

Run 1: Report of SReAM — Data Link

Figure is missing

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Run 2: Statistics of SCReAM

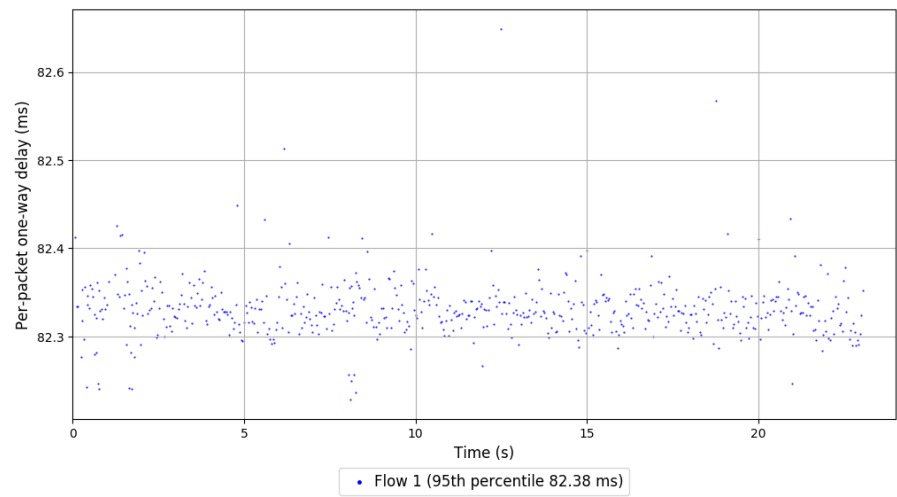
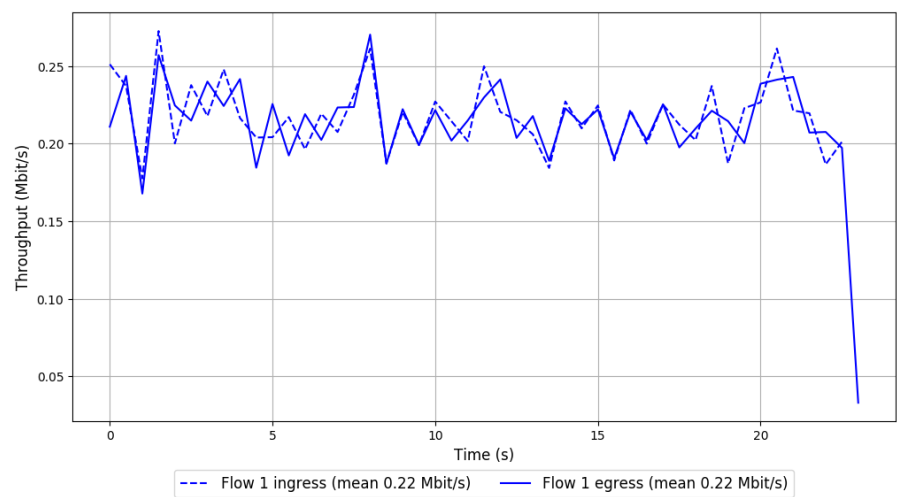
Start at: 2017-12-11 14:14:34

End at: 2017-12-11 14:15:04

Local clock offset: -0.431 ms

Remote clock offset: -5.488 ms

Run 2: Report of SReAM — Data Link



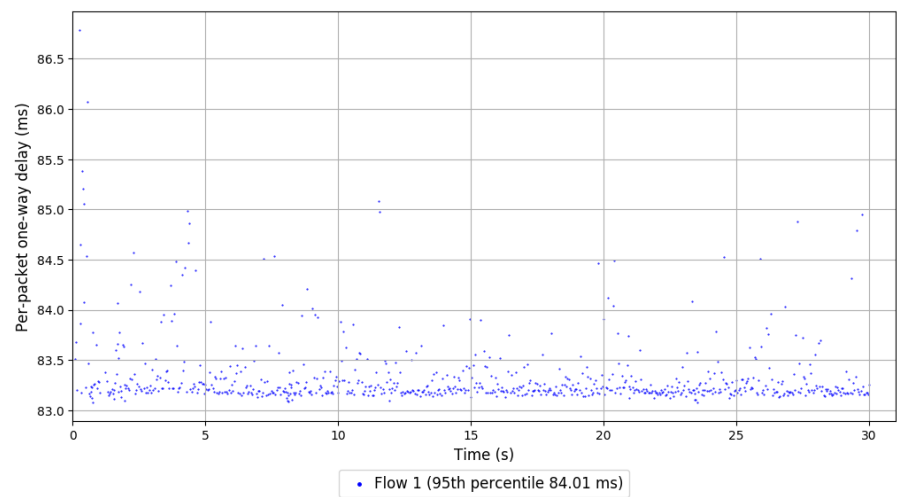
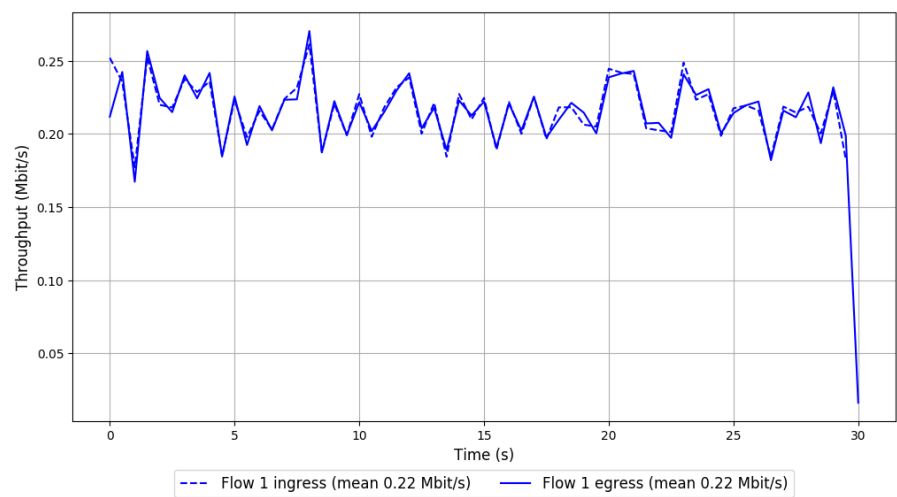
Run 3: Statistics of SCReAM

Start at: 2017-12-11 14:32:26  
End at: 2017-12-11 14:32:56  
Local clock offset: -0.431 ms  
Remote clock offset: -4.574 ms

# Below is generated by plot.py at 2017-12-11 17:41:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 84.014 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 84.014 ms  
Loss rate: 0.00%



Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-12-11 14:50:30

End at: 2017-12-11 14:51:00

Local clock offset: -0.433 ms

Remote clock offset: -3.921 ms

Run 4: Report of SReAM — Data Link

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Run 5: Statistics of SCReAM

Start at: 2017-12-11 15:08:17

End at: 2017-12-11 15:08:47

Local clock offset: -0.445 ms

Remote clock offset: 1.547 ms

Run 5: Report of SReAM — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of SCReAM

Start at: 2017-12-11 15:26:17

End at: 2017-12-11 15:26:47

Local clock offset: -0.503 ms

Remote clock offset: -4.764 ms

Run 6: Report of SReAM — Data Link

Figure is missing

Figure is missing

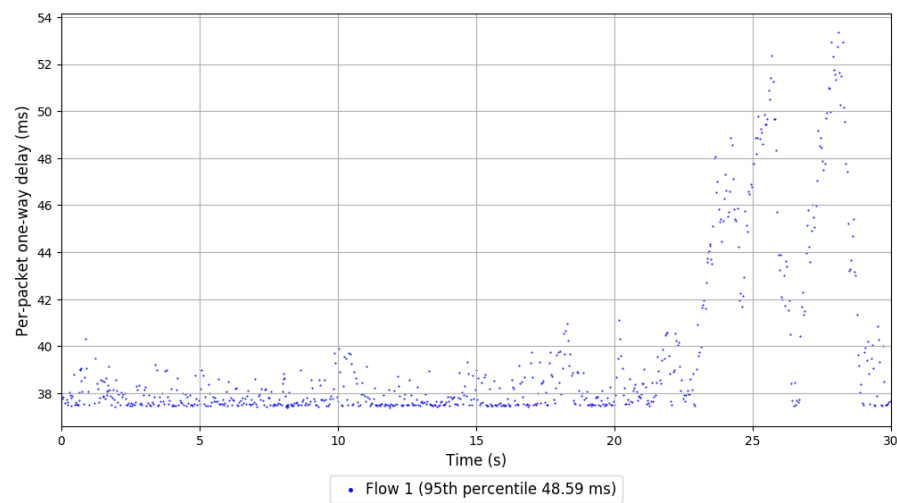
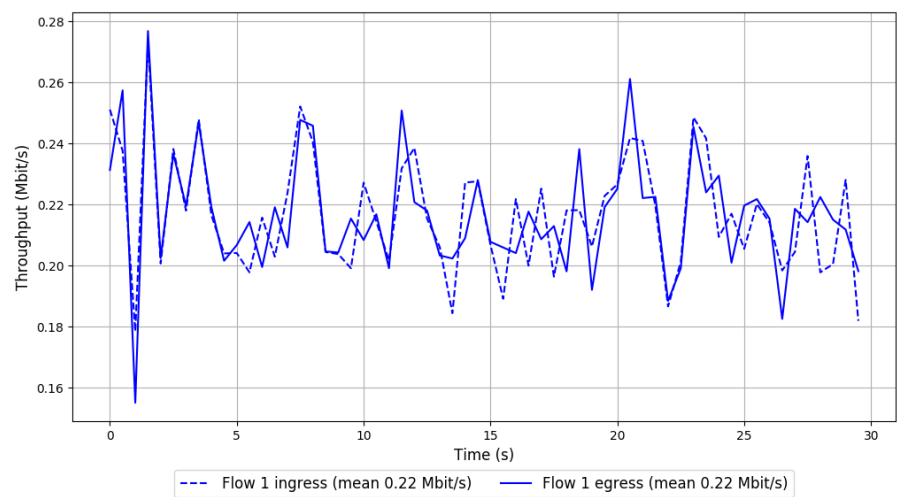
Run 7: Statistics of SCReAM

Start at: 2017-12-11 15:43:40  
End at: 2017-12-11 15:44:10  
Local clock offset: -0.443 ms  
Remote clock offset: -47.705 ms

# Below is generated by plot.py at 2017-12-11 17:41:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 48.586 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 48.586 ms  
Loss rate: 0.00%



Run 7: Report of SReAM — Data Link

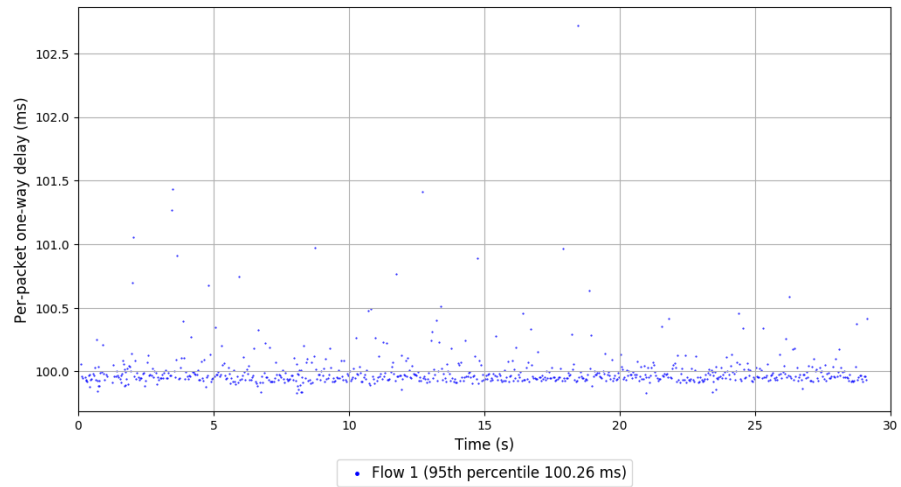
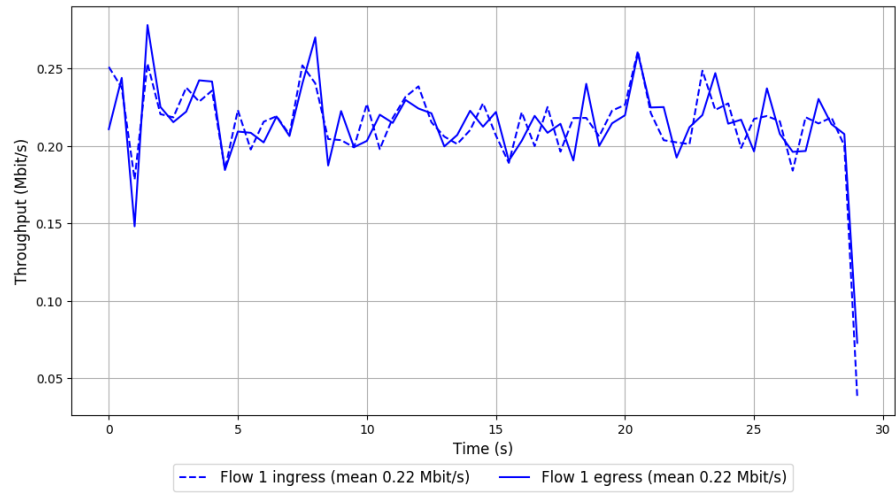


Run 8: Statistics of SCReAM

Start at: 2017-12-11 16:01:56  
End at: 2017-12-11 16:02:26  
Local clock offset: -0.458 ms  
Remote clock offset: 14.527 ms

# Below is generated by plot.py at 2017-12-11 17:41:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 100.262 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 100.262 ms  
Loss rate: 0.00%

## Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-12-11 16:20:07

End at: 2017-12-11 16:20:37

Local clock offset: -0.44 ms

Remote clock offset: -3.719 ms

Run 9: Report of SReAM — Data Link

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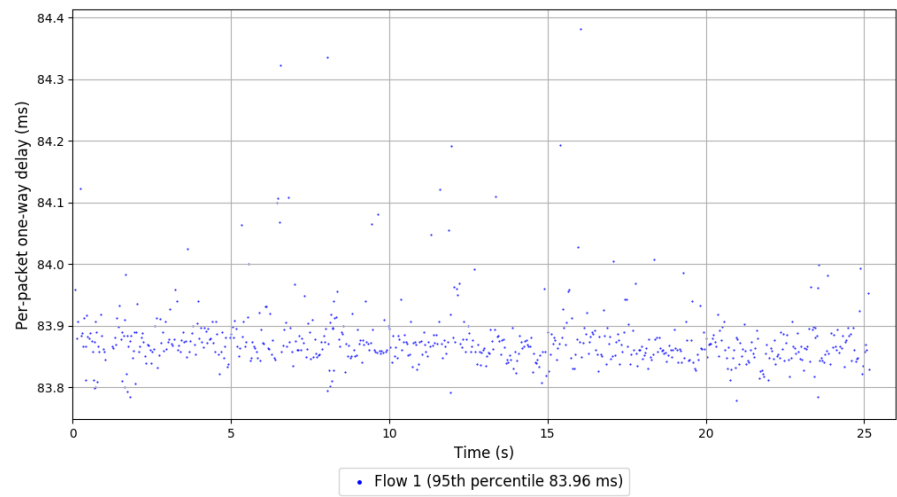
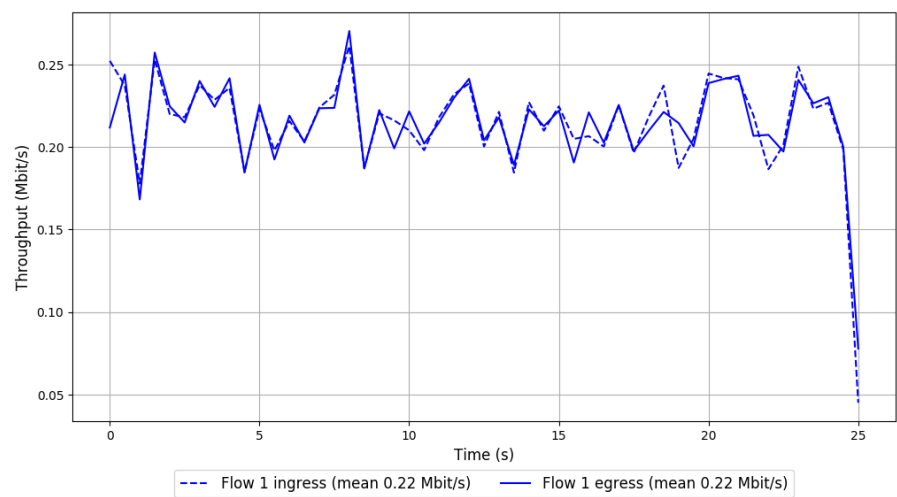
Figure is missing

Run 10: Statistics of SReAM

Start at: 2017-12-11 16:38:07  
End at: 2017-12-11 16:38:37  
Local clock offset: -0.371 ms  
Remote clock offset: -2.662 ms

# Below is generated by plot.py at 2017-12-11 17:41:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 83.962 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 83.962 ms  
Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



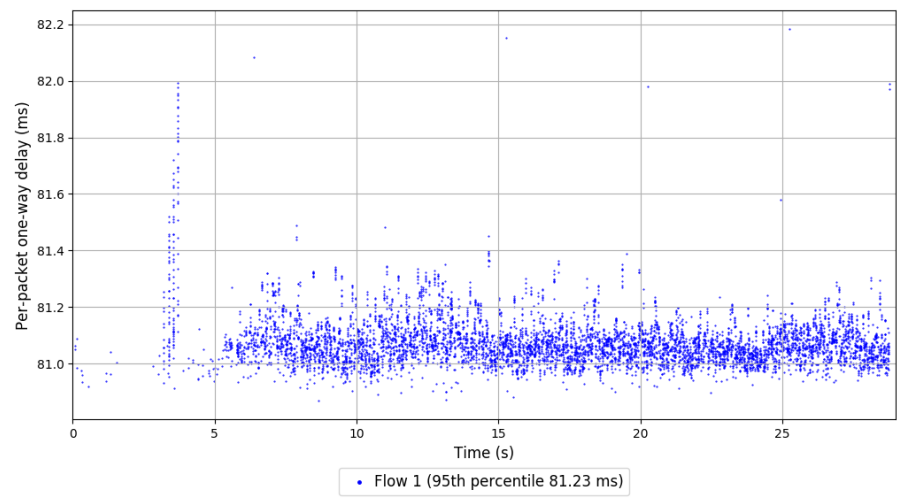
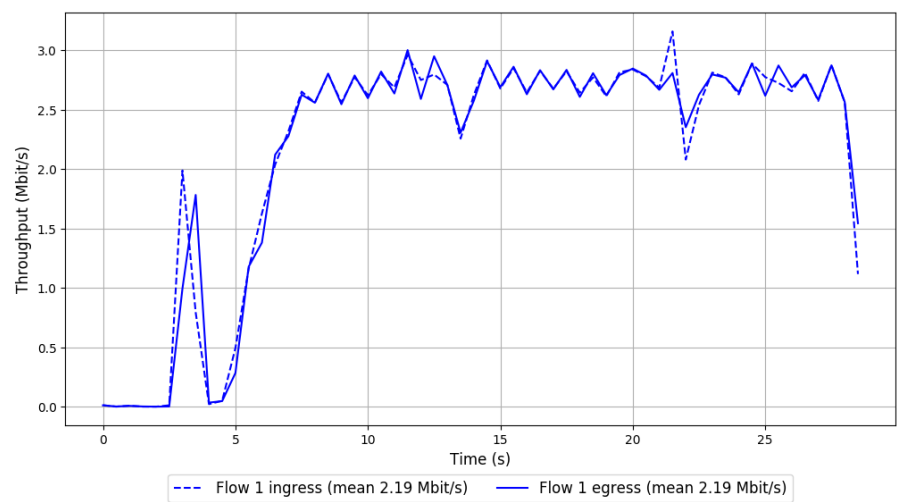
Run 1: Statistics of WebRTC media

Start at: 2017-12-11 13:51:17  
End at: 2017-12-11 13:51:47  
Local clock offset: -0.311 ms  
Remote clock offset: -5.433 ms

# Below is generated by plot.py at 2017-12-11 17:41:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.19 Mbit/s  
95th percentile per-packet one-way delay: 81.227 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.19 Mbit/s  
95th percentile per-packet one-way delay: 81.227 ms  
Loss rate: 0.00%



Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

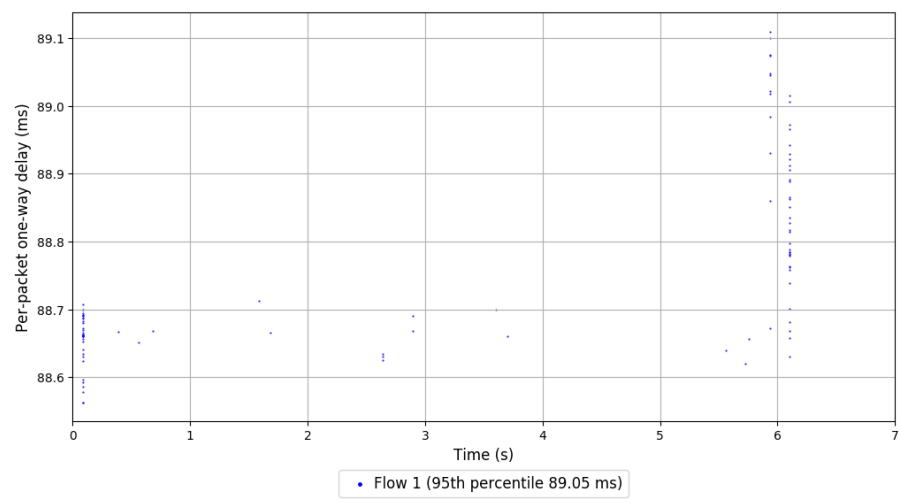
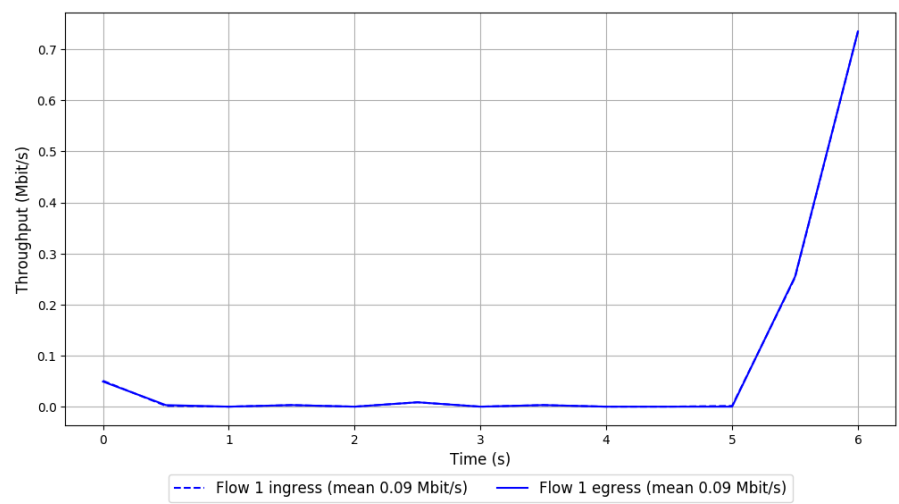
Start at: 2017-12-11 14:09:24

End at: 2017-12-11 14:09:54

Local clock offset: -0.385 ms

Remote clock offset: 0.421 ms

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

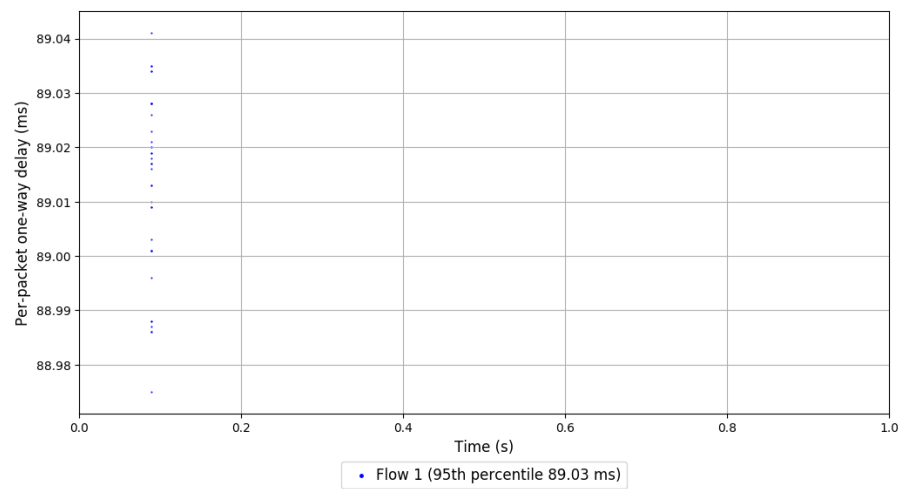
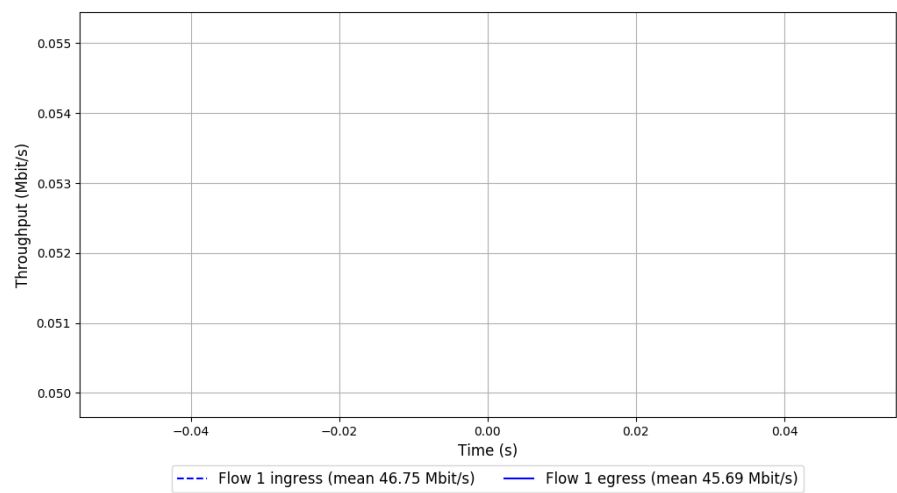
Start at: 2017-12-11 14:27:25

End at: 2017-12-11 14:27:55

Local clock offset: -0.456 ms

Remote clock offset: 1.411 ms

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

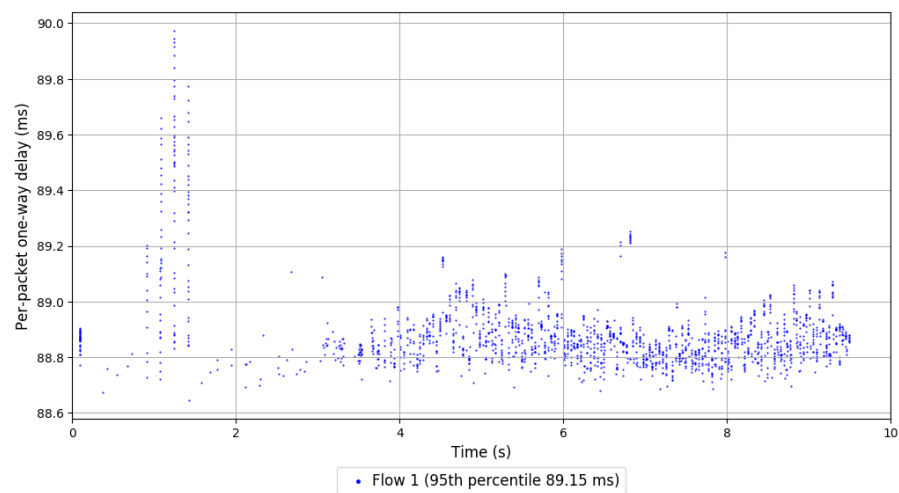
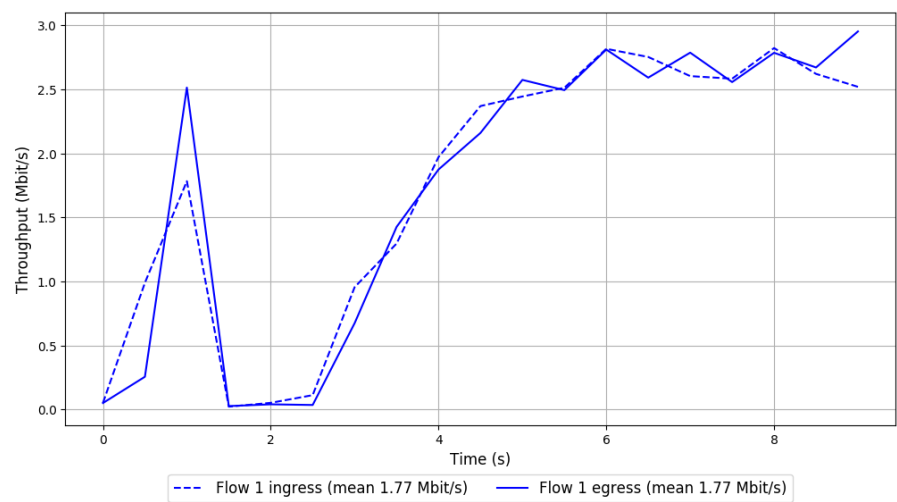
Start at: 2017-12-11 14:45:22

End at: 2017-12-11 14:45:52

Local clock offset: -0.415 ms

Remote clock offset: 1.739 ms

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-12-11 15:03:09

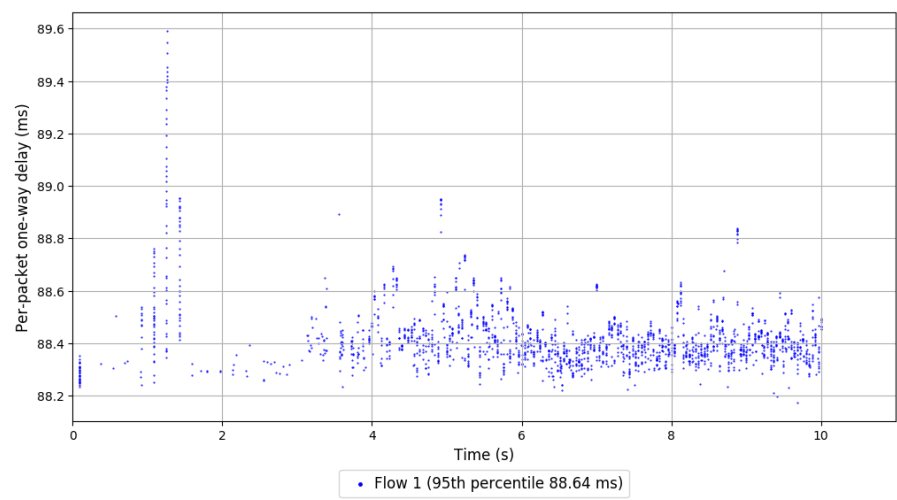
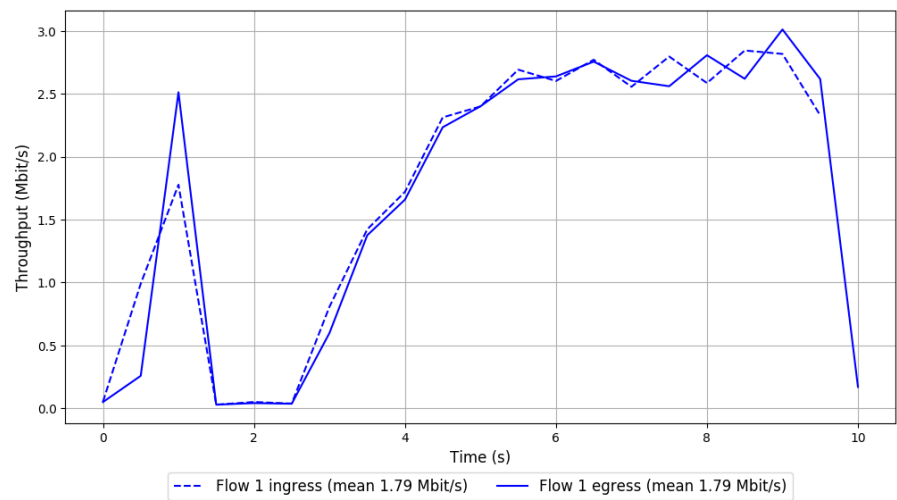
End at: 2017-12-11 15:03:39

Local clock offset: -0.46 ms

Remote clock offset: 1.182 ms



Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

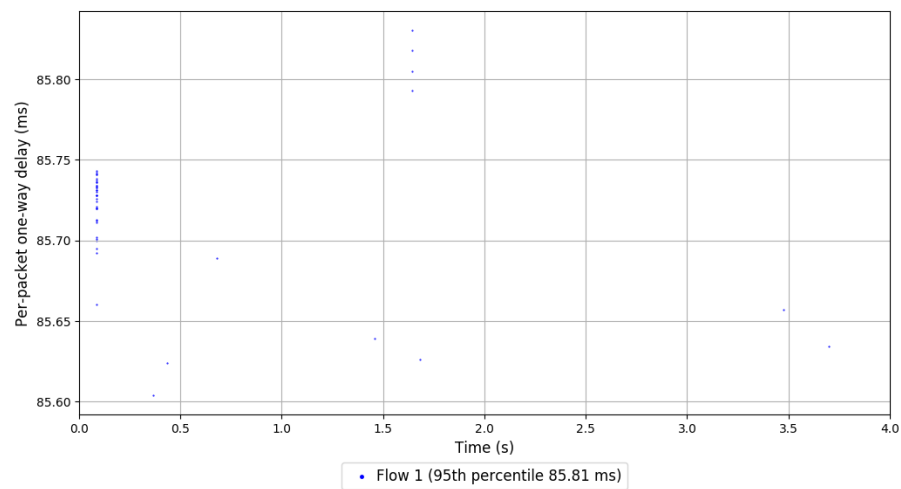
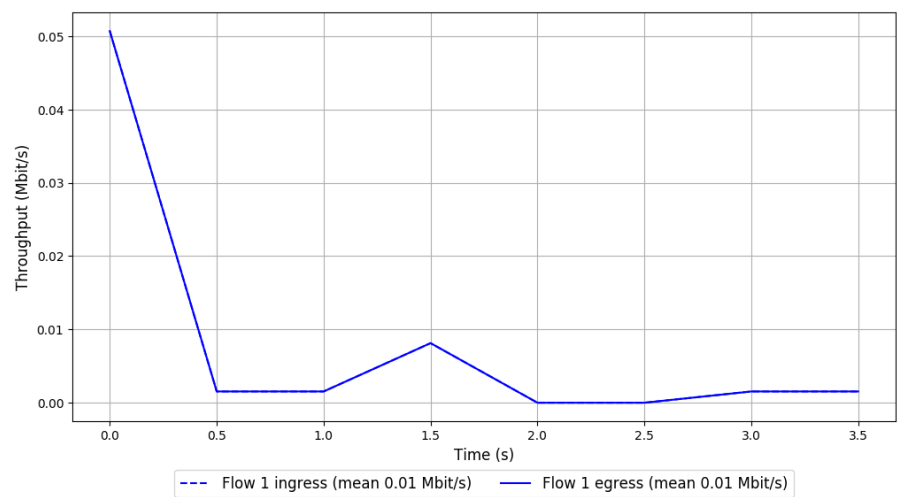
Start at: 2017-12-11 15:21:12

End at: 2017-12-11 15:21:42

Local clock offset: -0.552 ms

Remote clock offset: 0.404 ms

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-12-11 15:38:37

End at: 2017-12-11 15:39:07

Local clock offset: -0.49 ms

Remote clock offset: 2.272 ms

Run 7: Report of WebRTC media — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of WebRTC media

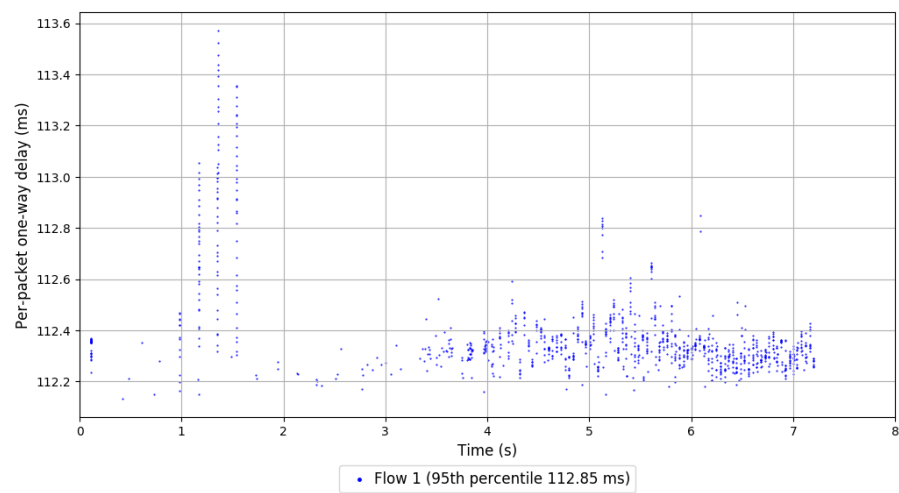
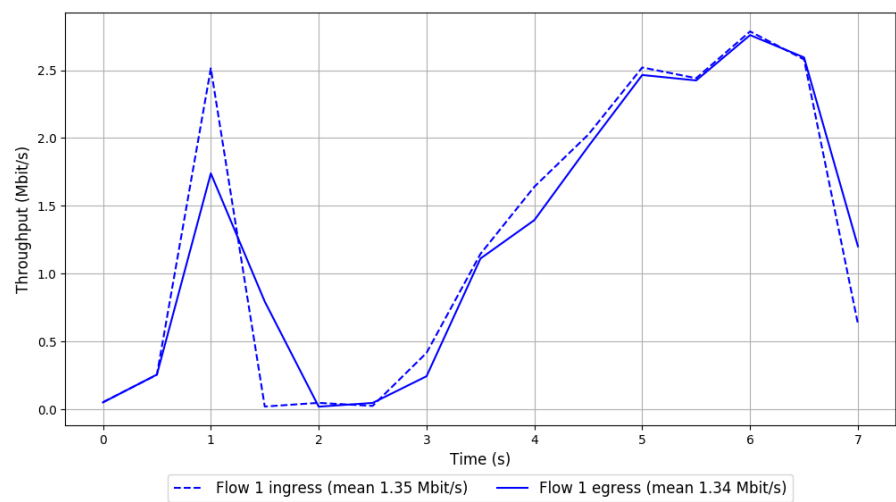
Start at: 2017-12-11 15:56:42

End at: 2017-12-11 15:57:12

Local clock offset: -0.471 ms

Remote clock offset: 8.417 ms

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-12-11 16:14:58

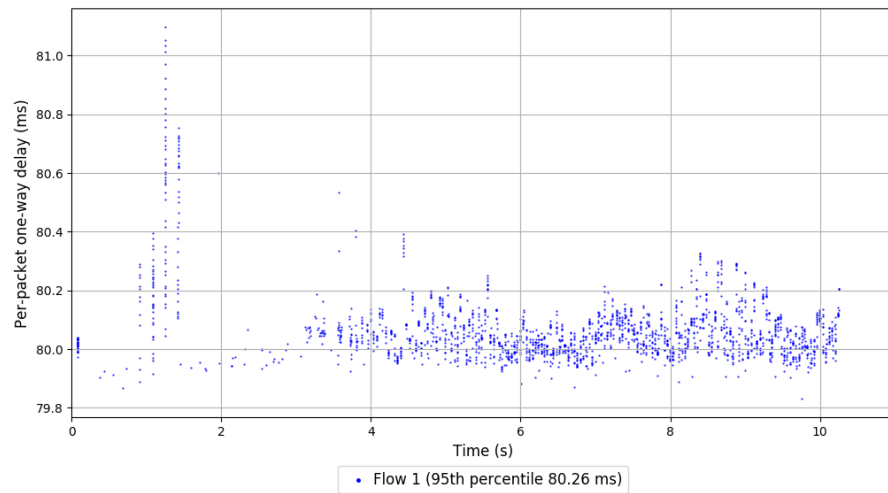
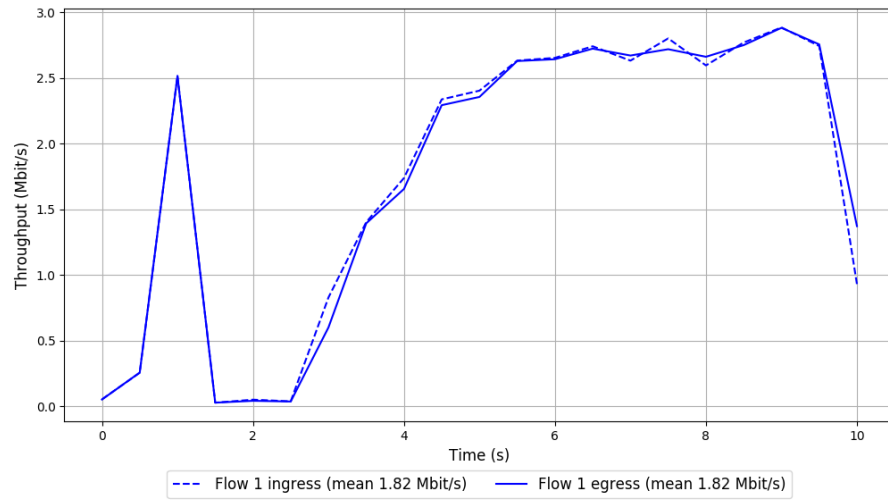
End at: 2017-12-11 16:15:28

Local clock offset: -0.503 ms

Remote clock offset: -6.808 ms



### Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

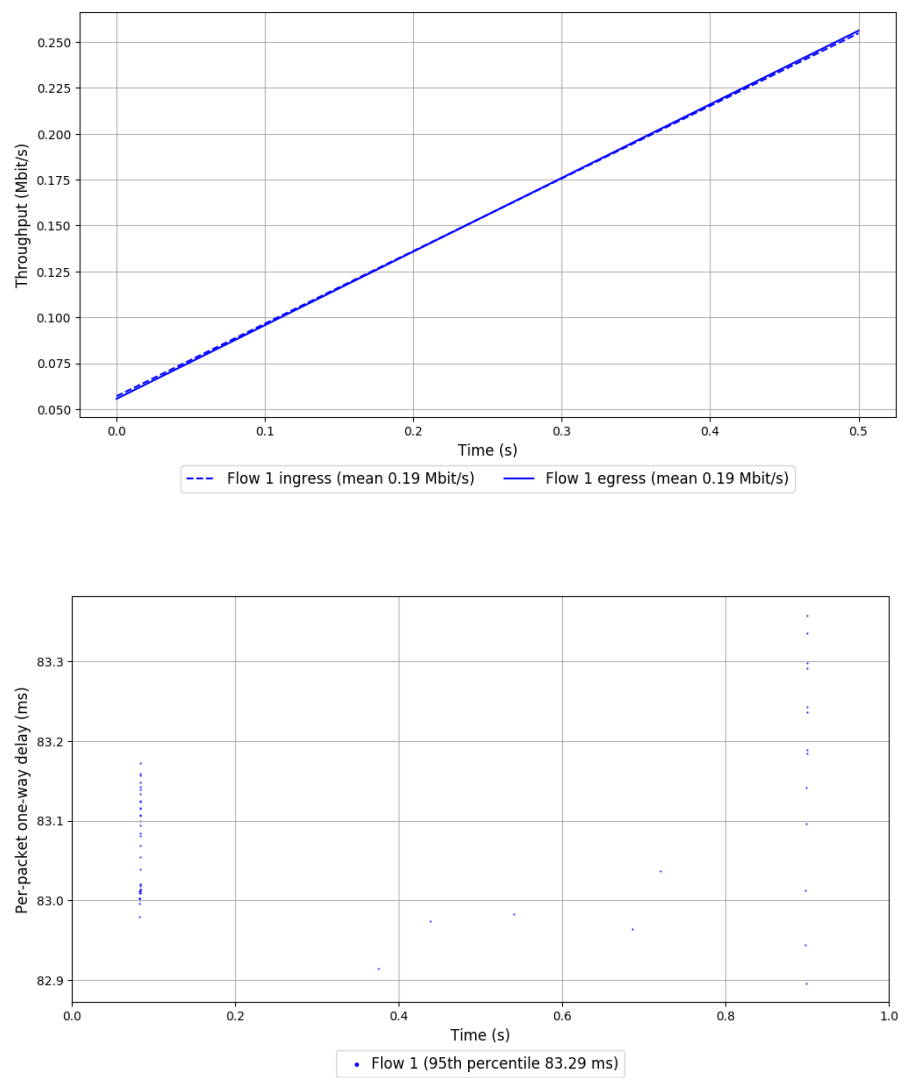
Start at: 2017-12-11 16:32:57

End at: 2017-12-11 16:33:27

Local clock offset: -0.406 ms

Remote clock offset: -1.809 ms

Run 10: Report of WebRTC media — Data Link

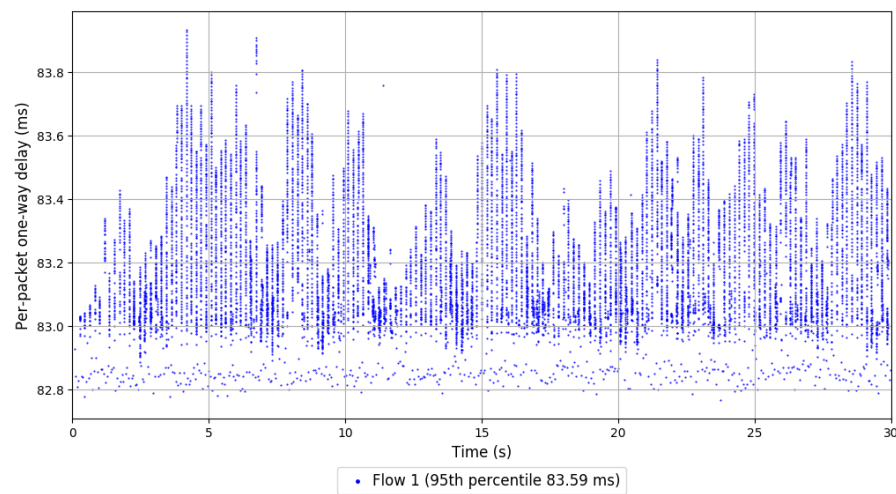
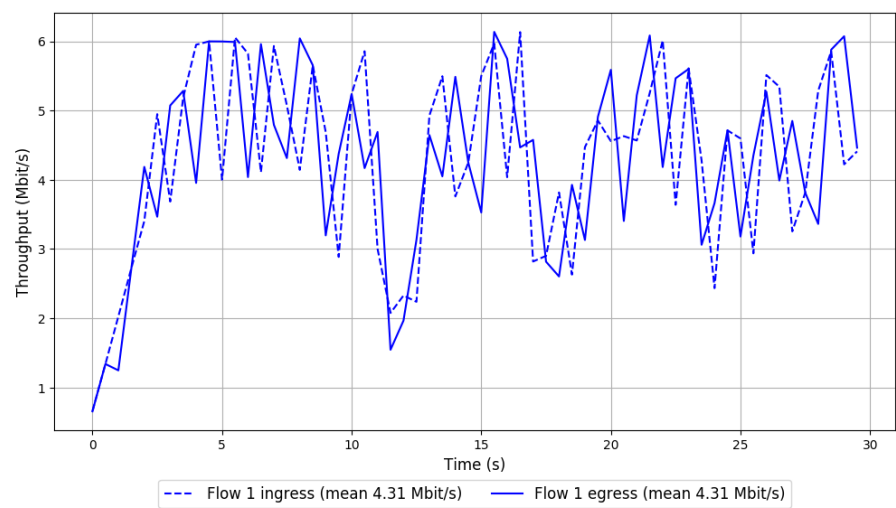


Run 1: Statistics of Sprout

Start at: 2017-12-11 14:04:08  
End at: 2017-12-11 14:04:38  
Local clock offset: -0.355 ms  
Remote clock offset: -5.053 ms

# Below is generated by plot.py at 2017-12-11 17:41:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 4.31 Mbit/s  
95th percentile per-packet one-way delay: 83.595 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 4.31 Mbit/s  
95th percentile per-packet one-way delay: 83.595 ms  
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

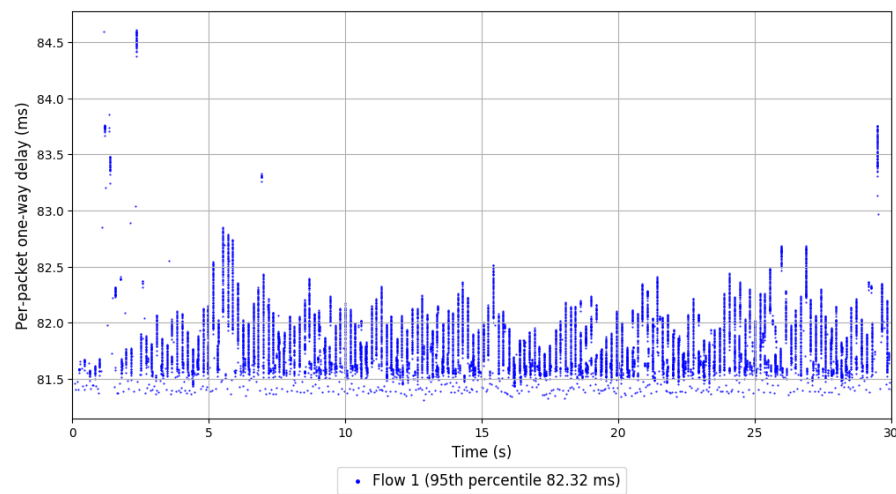
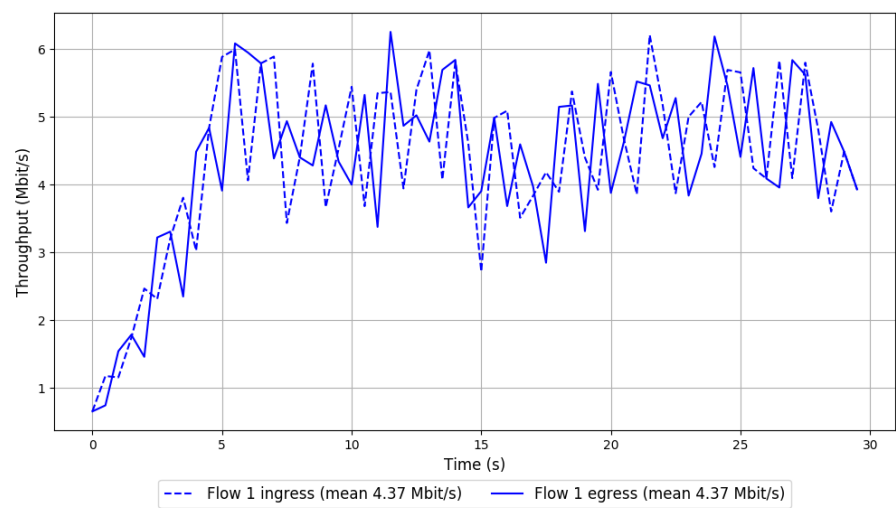


Run 2: Statistics of Sprout

Start at: 2017-12-11 14:22:13  
End at: 2017-12-11 14:22:43  
Local clock offset: -0.445 ms  
Remote clock offset: -4.936 ms

# Below is generated by plot.py at 2017-12-11 17:41:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 4.37 Mbit/s  
95th percentile per-packet one-way delay: 82.324 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 4.37 Mbit/s  
95th percentile per-packet one-way delay: 82.324 ms  
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-12-11 14:40:05

End at: 2017-12-11 14:40:35

Local clock offset: -0.527 ms

Remote clock offset: 0.474 ms

# Below is generated by plot.py at 2017-12-11 17:41:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 4.34 Mbit/s

95th percentile per-packet one-way delay: 88.921 ms

Loss rate: 0.00%

-- Flow 1:

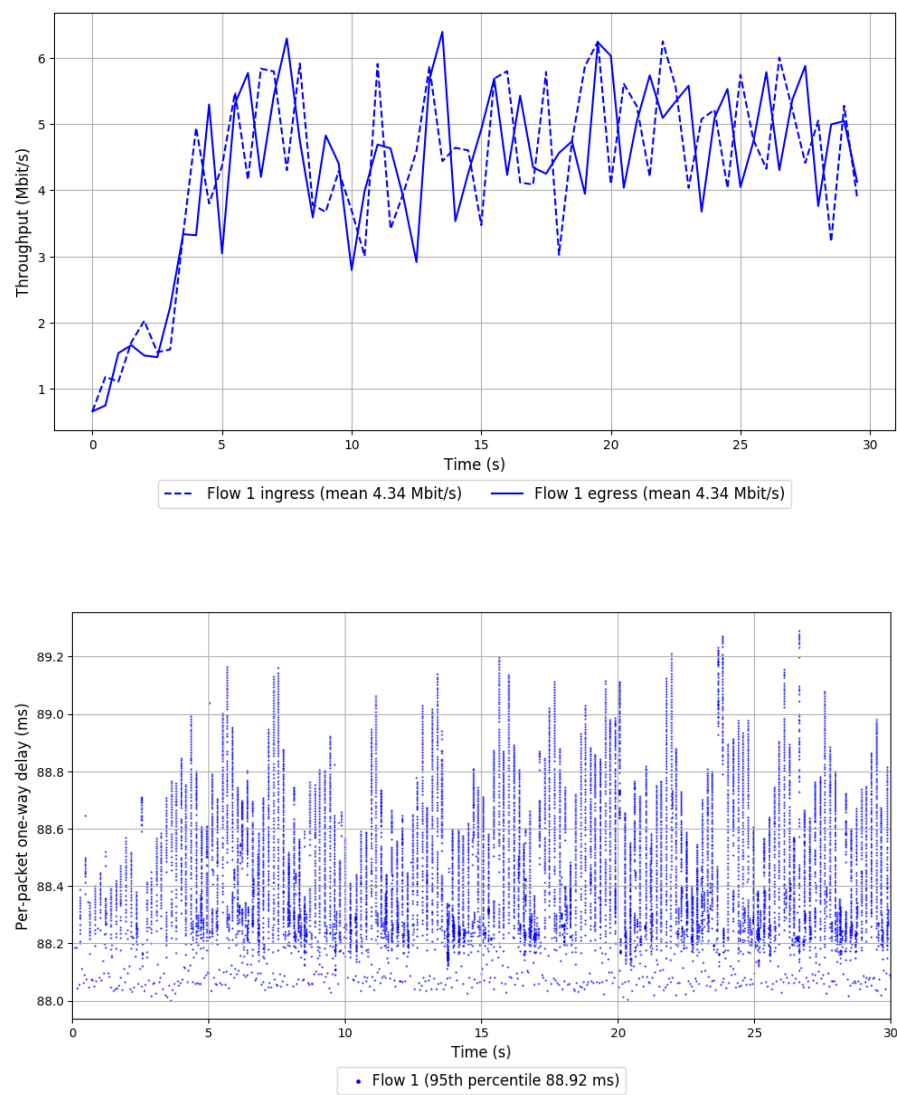
Average throughput: 4.34 Mbit/s

95th percentile per-packet one-way delay: 88.921 ms

Loss rate: 0.00%



Run 3: Report of Sprout — Data Link

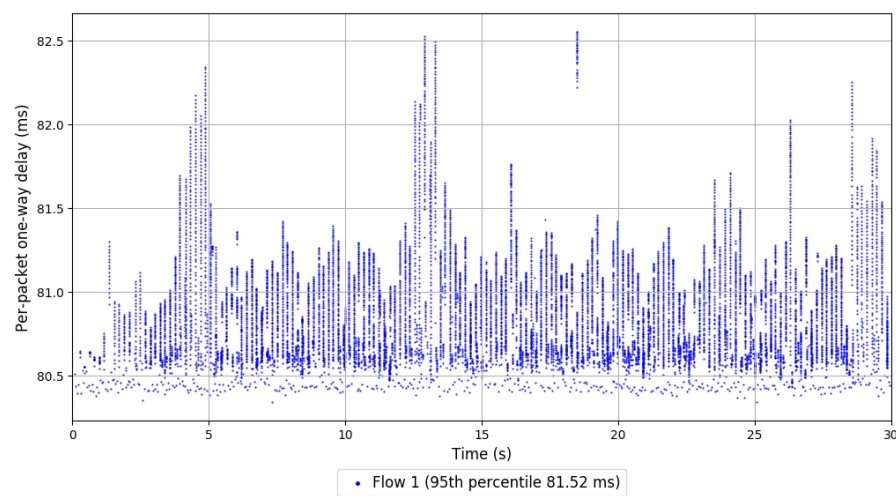
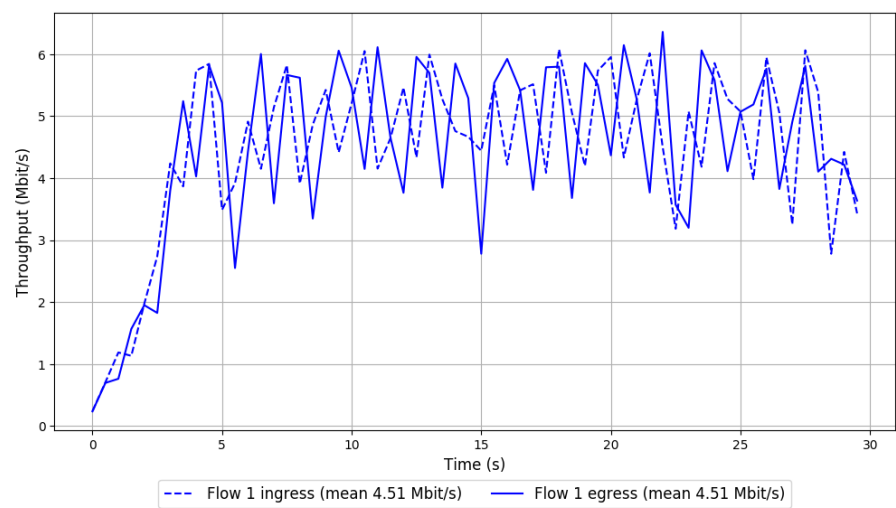


Run 4: Statistics of Sprout

Start at: 2017-12-11 14:57:50  
End at: 2017-12-11 14:58:20  
Local clock offset: -0.459 ms  
Remote clock offset: -4.991 ms

# Below is generated by plot.py at 2017-12-11 17:41:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 4.51 Mbit/s  
95th percentile per-packet one-way delay: 81.518 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 4.51 Mbit/s  
95th percentile per-packet one-way delay: 81.518 ms  
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

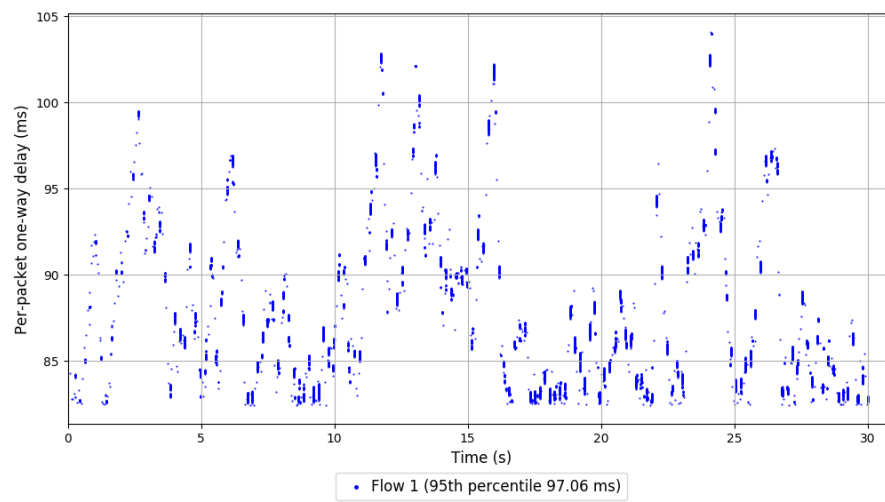
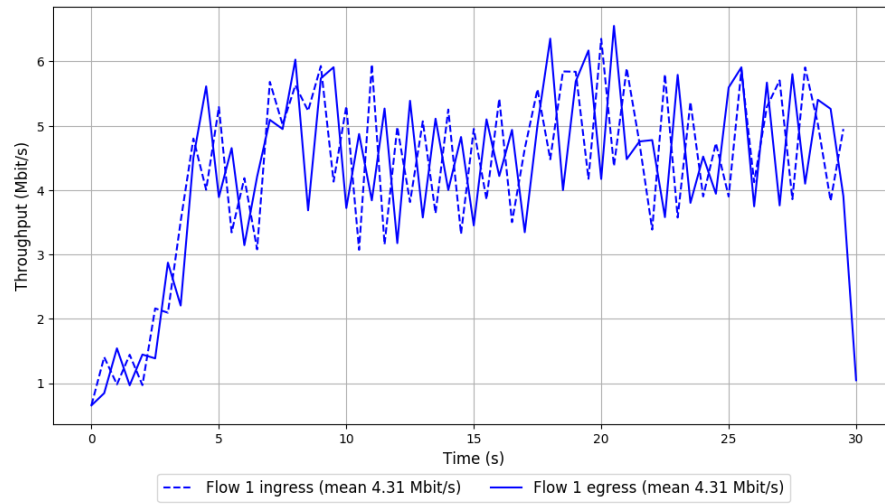


Run 5: Statistics of Sprout

Start at: 2017-12-11 15:15:58  
End at: 2017-12-11 15:16:28  
Local clock offset: -0.467 ms  
Remote clock offset: -4.322 ms

# Below is generated by plot.py at 2017-12-11 17:41:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 4.31 Mbit/s  
95th percentile per-packet one-way delay: 97.057 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 4.31 Mbit/s  
95th percentile per-packet one-way delay: 97.057 ms  
Loss rate: 0.00%

## Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-12-11 15:33:36

End at: 2017-12-11 15:34:06

Local clock offset: -0.452 ms

Remote clock offset: 0.112 ms

# Below is generated by plot.py at 2017-12-11 17:41:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 4.44 Mbit/s

95th percentile per-packet one-way delay: 91.044 ms

Loss rate: 0.00%

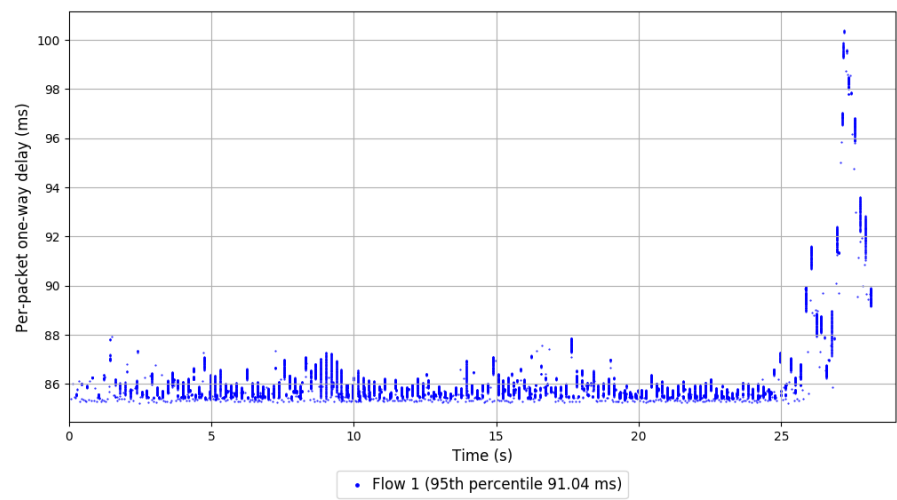
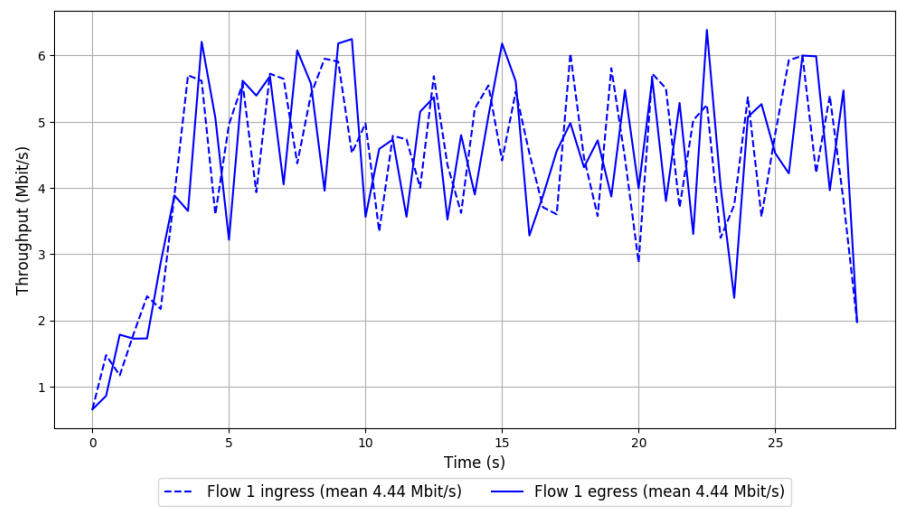
-- Flow 1:

Average throughput: 4.44 Mbit/s

95th percentile per-packet one-way delay: 91.044 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



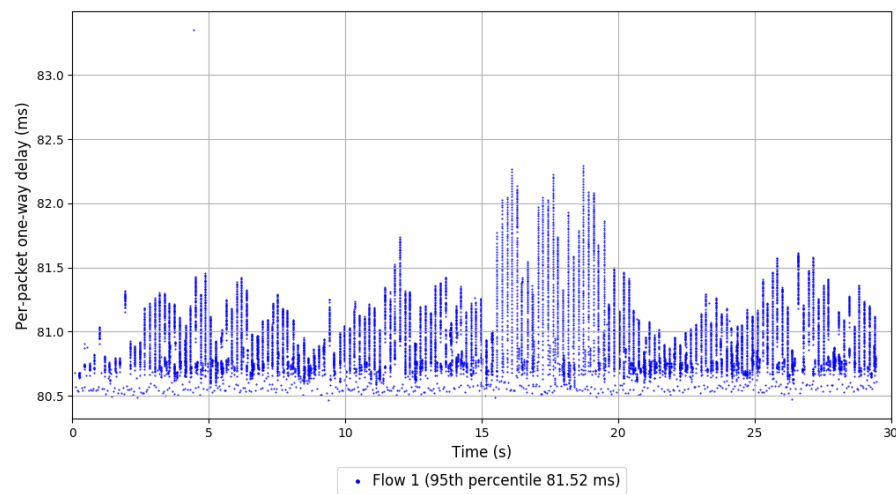
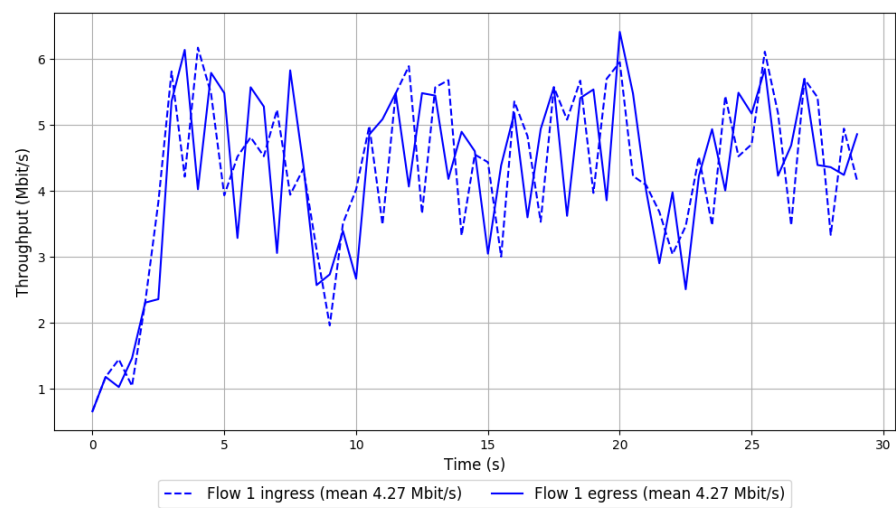
Run 7: Statistics of Sprout

Start at: 2017-12-11 15:51:24  
End at: 2017-12-11 15:51:54  
Local clock offset: -0.477 ms  
Remote clock offset: -4.142 ms

# Below is generated by plot.py at 2017-12-11 17:41:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 4.27 Mbit/s  
95th percentile per-packet one-way delay: 81.518 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 4.27 Mbit/s  
95th percentile per-packet one-way delay: 81.518 ms  
Loss rate: 0.00%



Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-12-11 16:09:38

End at: 2017-12-11 16:10:08

Local clock offset: -0.467 ms

Remote clock offset: 9.193 ms

# Below is generated by plot.py at 2017-12-11 17:41:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 4.69 Mbit/s

95th percentile per-packet one-way delay: 96.749 ms

Loss rate: 0.00%

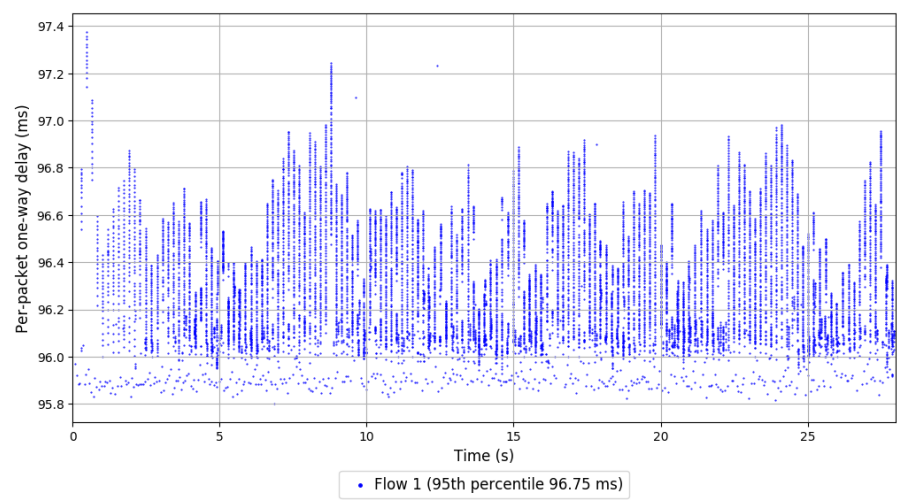
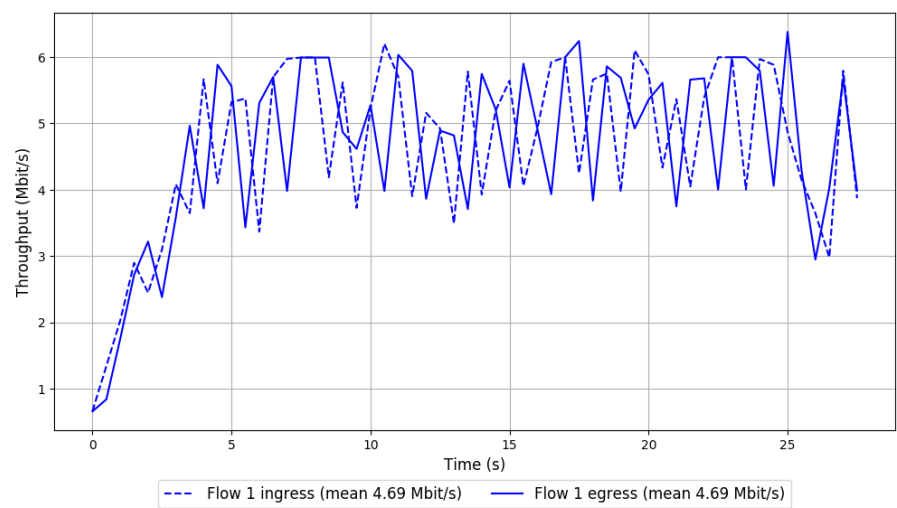
-- Flow 1:

Average throughput: 4.69 Mbit/s

95th percentile per-packet one-way delay: 96.749 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

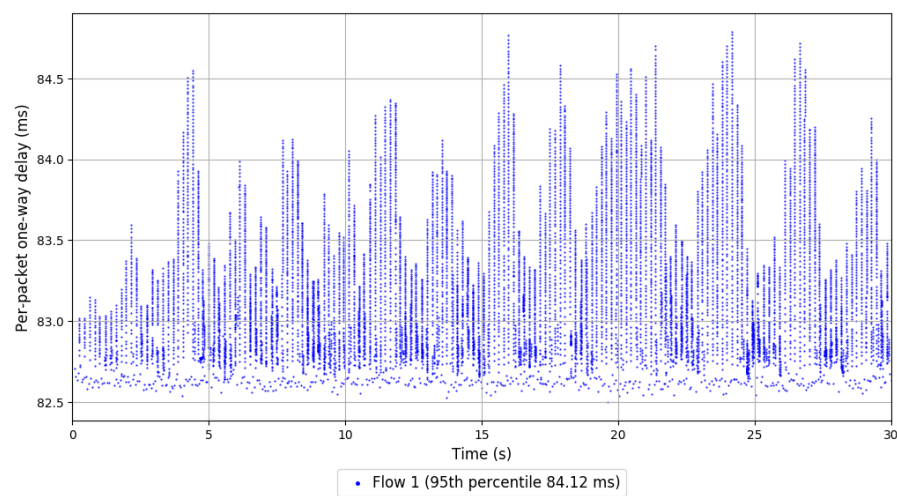
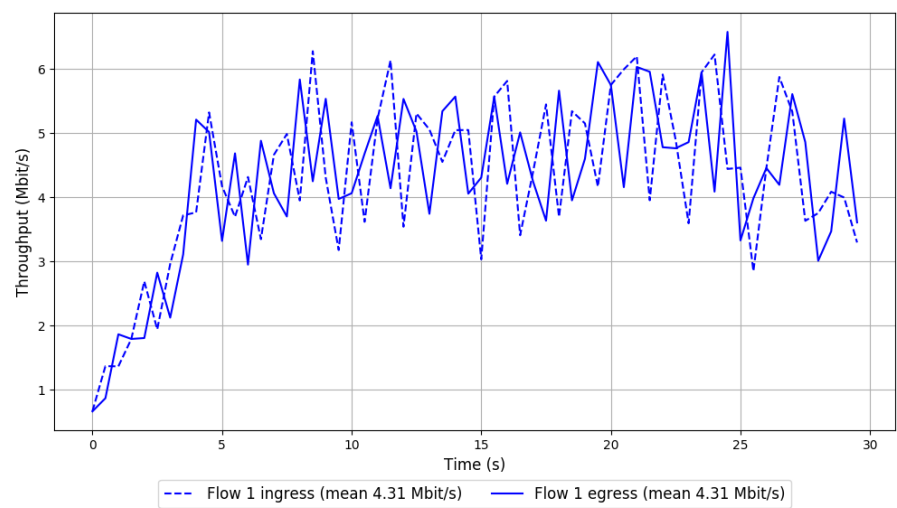


Run 9: Statistics of Sprout

Start at: 2017-12-11 16:27:47  
End at: 2017-12-11 16:28:17  
Local clock offset: -0.417 ms  
Remote clock offset: -3.946 ms

# Below is generated by plot.py at 2017-12-11 17:41:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 4.31 Mbit/s  
95th percentile per-packet one-way delay: 84.118 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 4.31 Mbit/s  
95th percentile per-packet one-way delay: 84.118 ms  
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-12-11 16:45:47

End at: 2017-12-11 16:46:17

Local clock offset: -0.376 ms

Remote clock offset: 2.73 ms

# Below is generated by plot.py at 2017-12-11 17:41:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 4.26 Mbit/s

95th percentile per-packet one-way delay: 87.843 ms

Loss rate: 0.00%

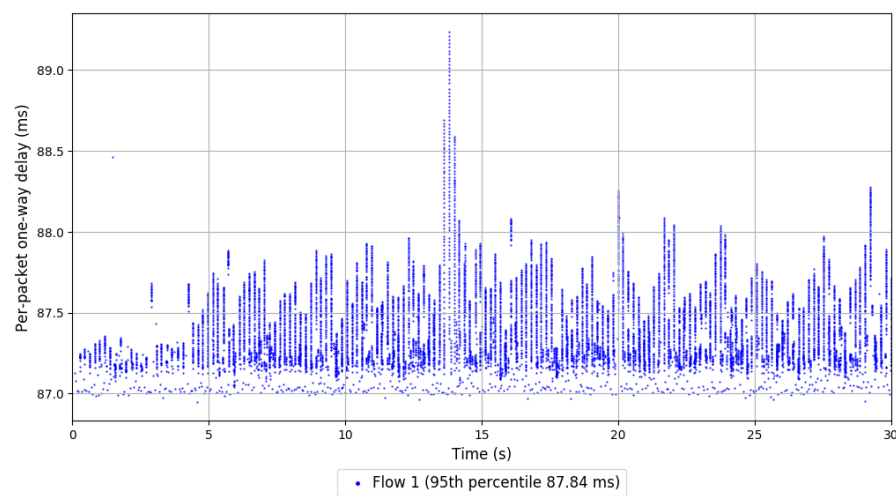
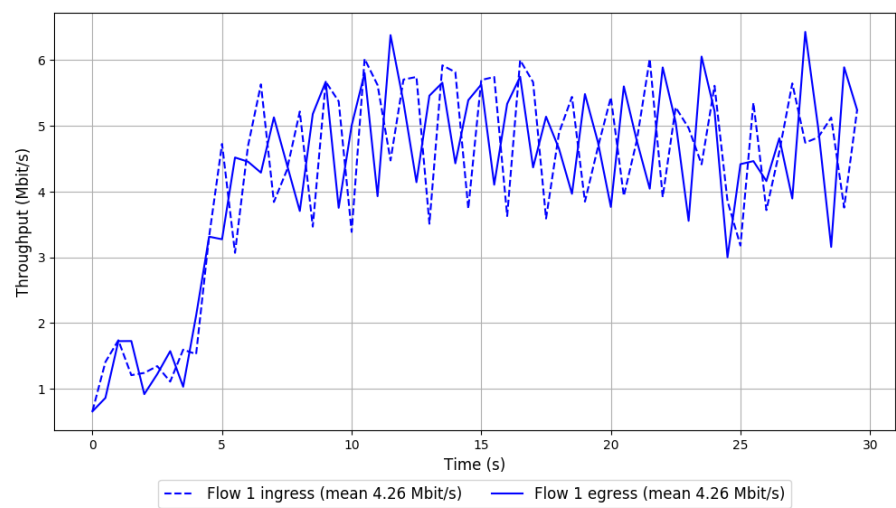
-- Flow 1:

Average throughput: 4.26 Mbit/s

95th percentile per-packet one-way delay: 87.843 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2017-12-11 13:53:41

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

Local clock offset: -0.377 ms

Remote clock offset: -4.93 ms

# Below is generated by plot.py at 2017-12-11 17:46:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 265.31 Mbit/s

95th percentile per-packet one-way delay: 83.300 ms

Loss rate: 1.65%

-- Flow 1:

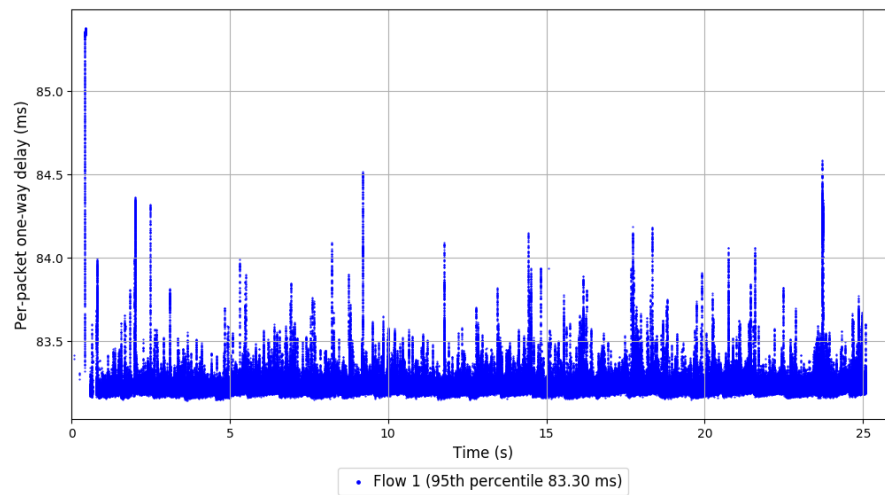
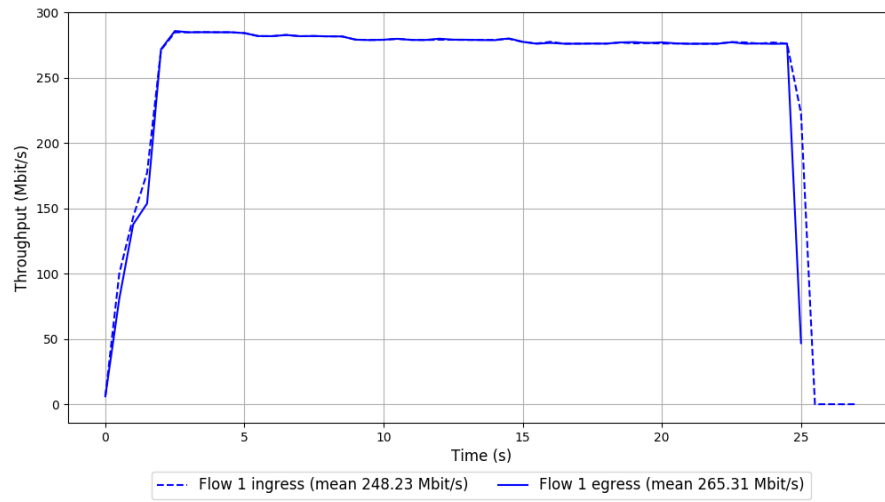
Average throughput: 265.31 Mbit/s

95th percentile per-packet one-way delay: 83.300 ms

Loss rate: 1.65%



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



Run 2: Statistics of TaoVA-100x

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

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

Local clock offset: -0.427 ms

Remote clock offset: 0.151 ms

# Below is generated by plot.py at 2017-12-11 17:47:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 256.40 Mbit/s

95th percentile per-packet one-way delay: 89.483 ms

Loss rate: 0.00%

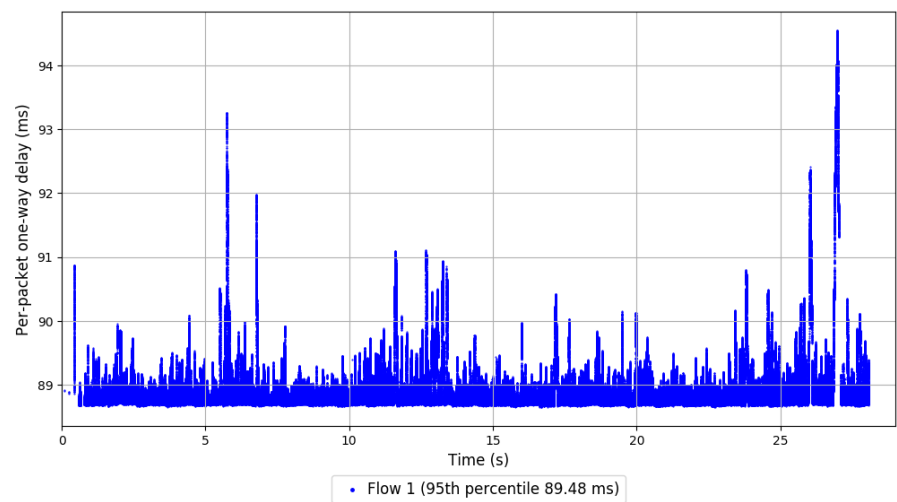
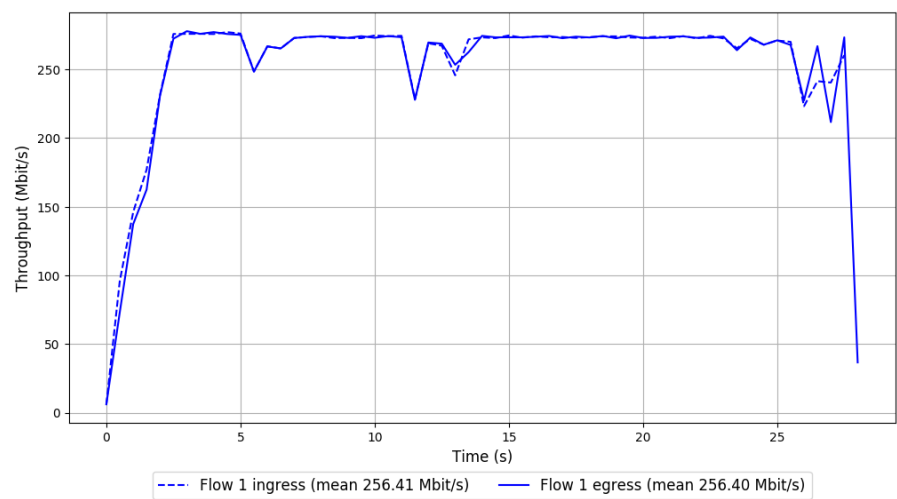
-- Flow 1:

Average throughput: 256.40 Mbit/s

95th percentile per-packet one-way delay: 89.483 ms

Loss rate: 0.00%

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

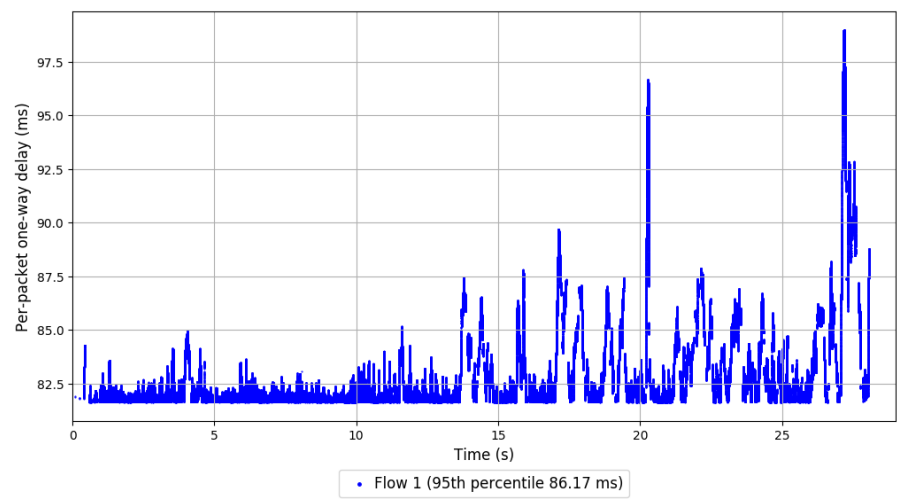
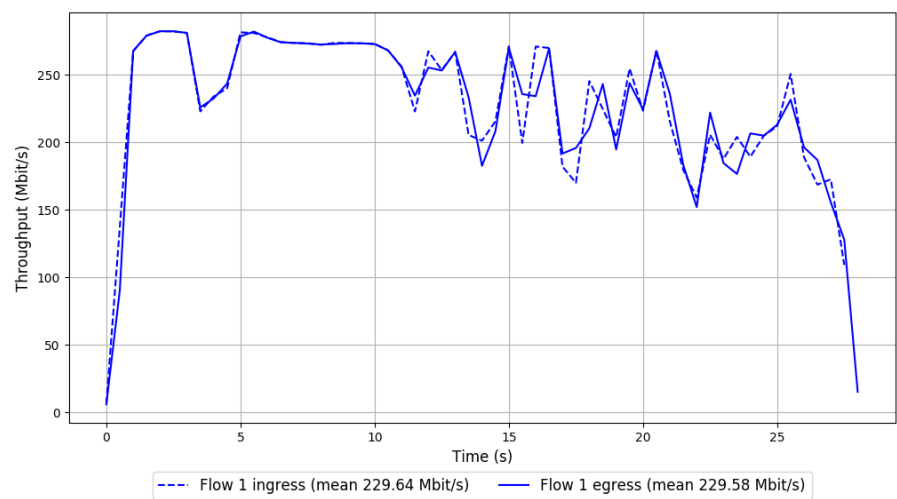


Run 3: Statistics of TaoVA-100x

Start at: 2017-12-11 14:29:44  
End at: 2017-12-11 14:30:14  
Local clock offset: -0.418 ms  
Remote clock offset: -4.315 ms

# Below is generated by plot.py at 2017-12-11 17:47:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 229.58 Mbit/s  
95th percentile per-packet one-way delay: 86.172 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 229.58 Mbit/s  
95th percentile per-packet one-way delay: 86.172 ms  
Loss rate: 0.02%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-12-11 14:47:44

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

Local clock offset: -0.432 ms

Remote clock offset: 0.88 ms

# Below is generated by plot.py at 2017-12-11 17:47:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 255.45 Mbit/s

95th percentile per-packet one-way delay: 90.870 ms

Loss rate: 0.00%

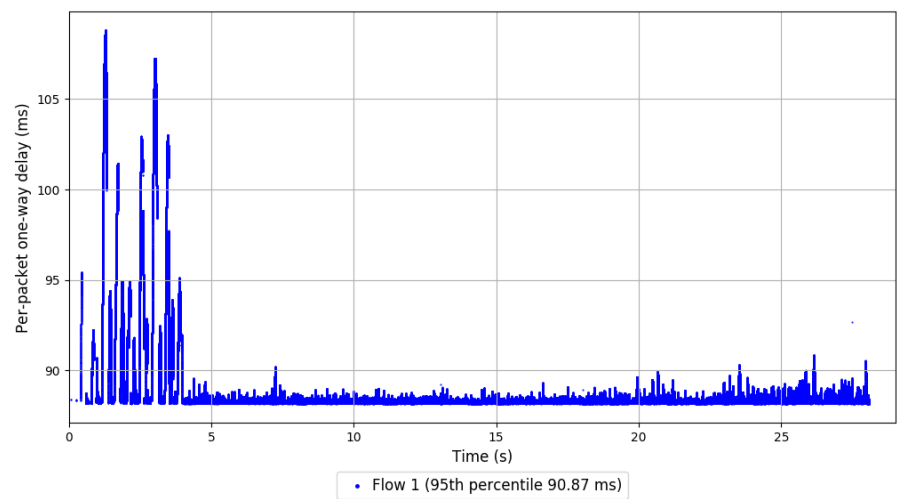
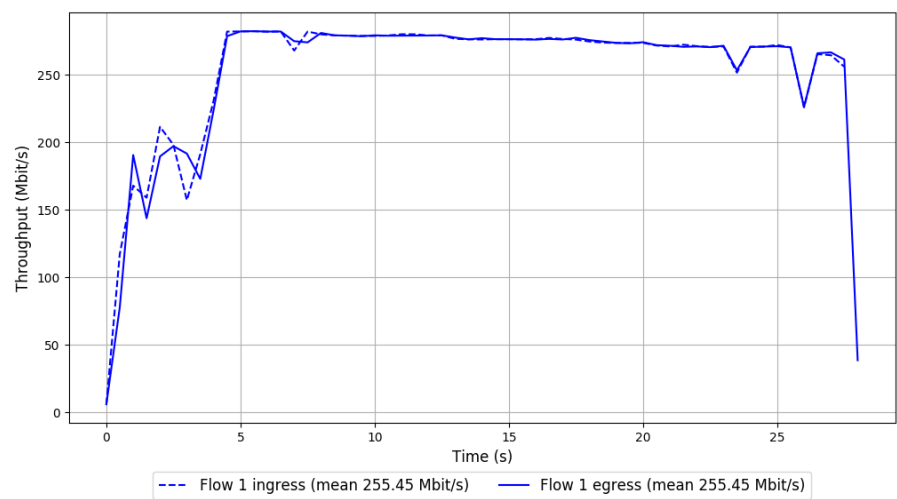
-- Flow 1:

Average throughput: 255.45 Mbit/s

95th percentile per-packet one-way delay: 90.870 ms

Loss rate: 0.00%

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



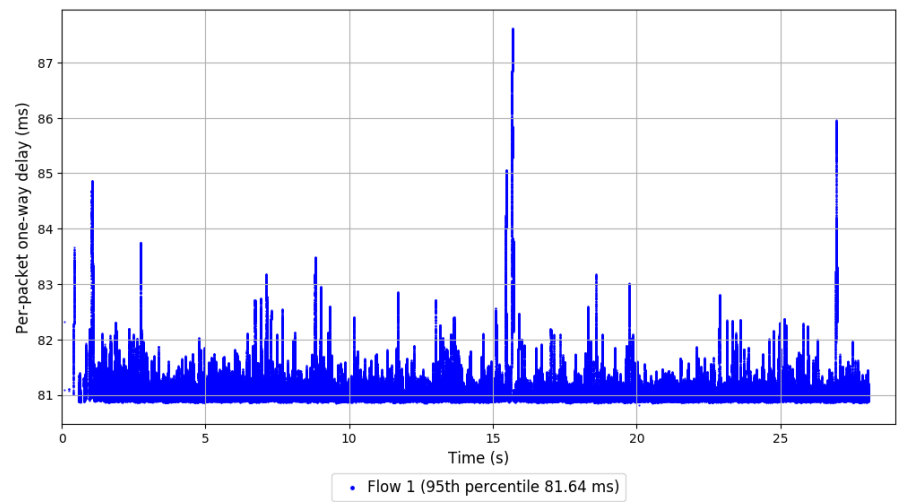
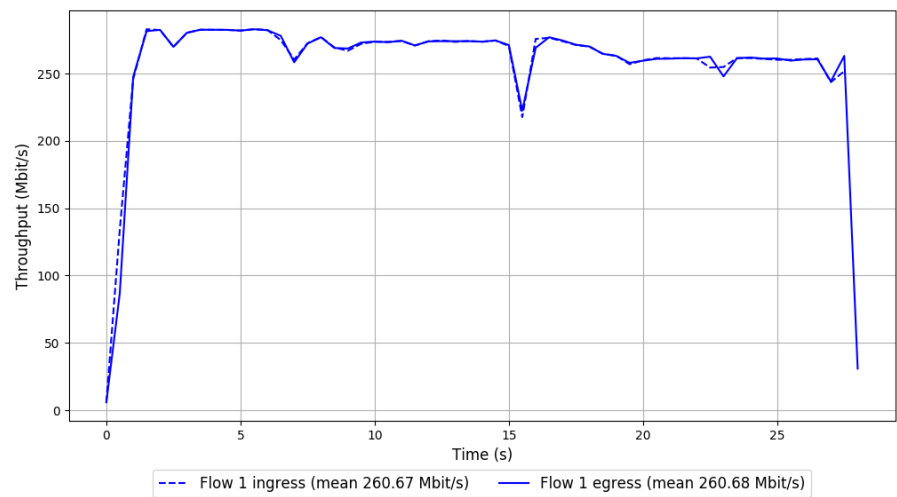
Run 5: Statistics of TaoVA-100x

Start at: 2017-12-11 15:05:31  
End at: 2017-12-11 15:06:01  
Local clock offset: -0.459 ms  
Remote clock offset: -4.527 ms

# Below is generated by plot.py at 2017-12-11 17:47:17  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 260.68 Mbit/s  
95th percentile per-packet one-way delay: 81.635 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 260.68 Mbit/s  
95th percentile per-packet one-way delay: 81.635 ms  
Loss rate: 0.00%



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



Run 6: Statistics of TaoVA-100x

Start at: 2017-12-11 15:23:33

End at: 2017-12-11 15:24:03

Local clock offset: -0.493 ms

Remote clock offset: 0.89 ms

# Below is generated by plot.py at 2017-12-11 17:47:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 231.47 Mbit/s

95th percentile per-packet one-way delay: 98.930 ms

Loss rate: 0.04%

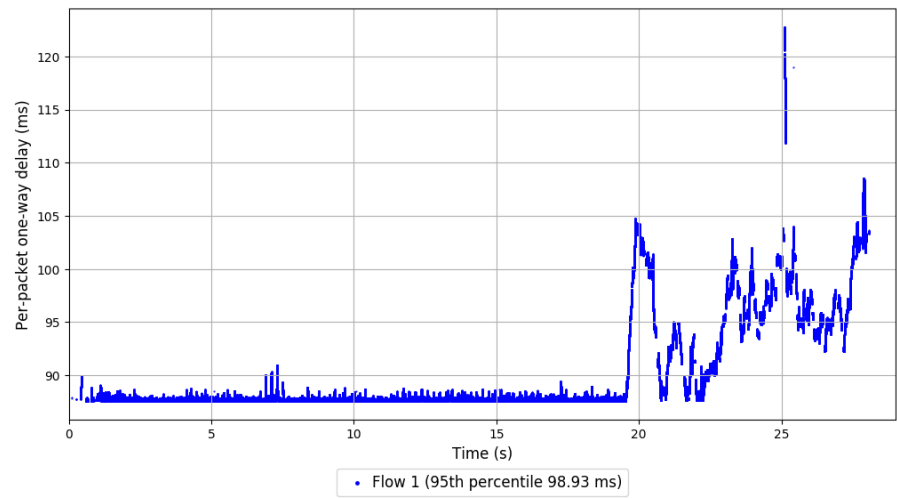
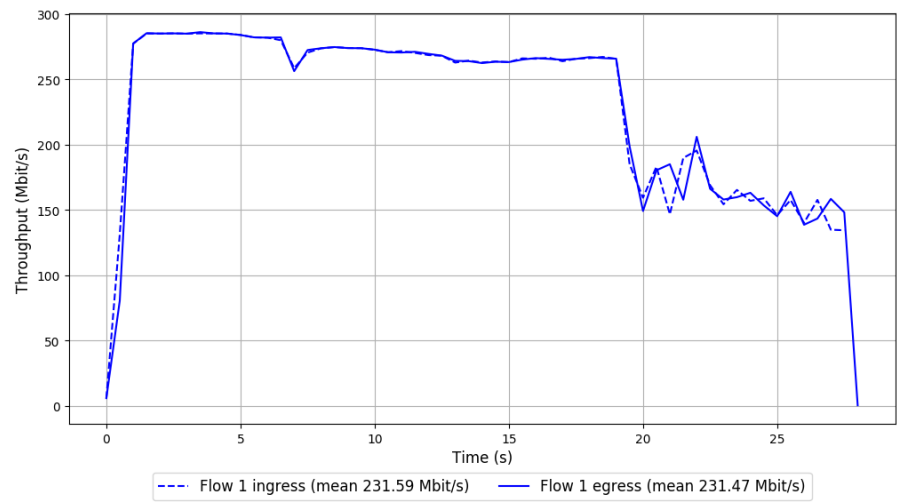
-- Flow 1:

Average throughput: 231.47 Mbit/s

95th percentile per-packet one-way delay: 98.930 ms

Loss rate: 0.04%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-12-11 15:40:56

End at: 2017-12-11 15:41:26

Local clock offset: -0.55 ms

Remote clock offset: 1.582 ms

# Below is generated by plot.py at 2017-12-11 17:47:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 228.97 Mbit/s

95th percentile per-packet one-way delay: 91.719 ms

Loss rate: 0.00%

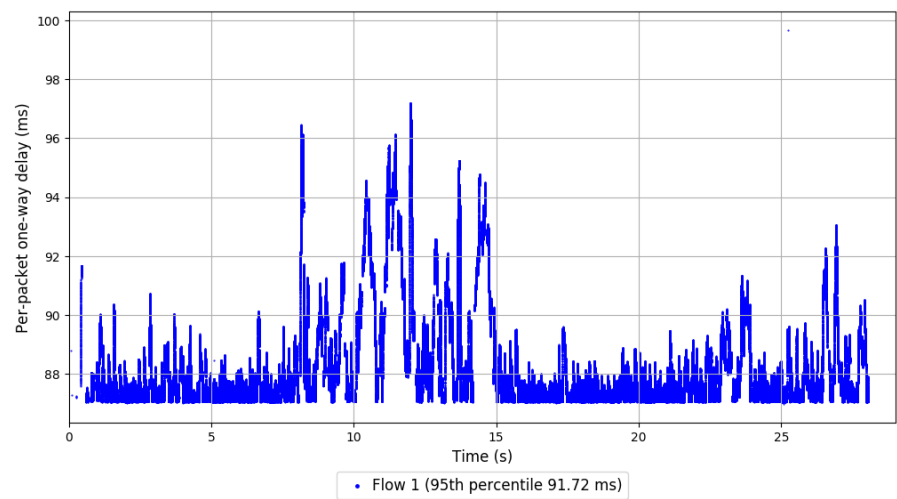
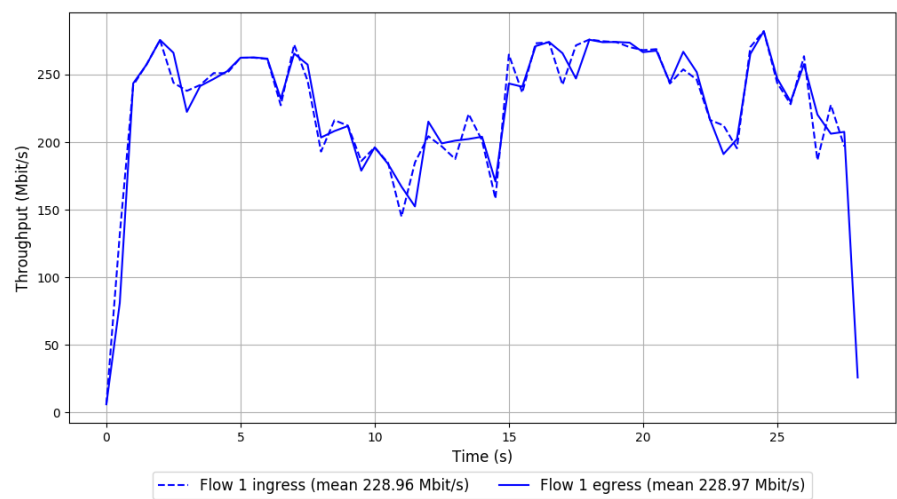
-- Flow 1:

Average throughput: 228.97 Mbit/s

95th percentile per-packet one-way delay: 91.719 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-12-11 15:59:08

End at: 2017-12-11 15:59:38

Local clock offset: -0.478 ms

Remote clock offset: 5.135 ms

# Below is generated by plot.py at 2017-12-11 17:47:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 256.80 Mbit/s

95th percentile per-packet one-way delay: 110.498 ms

Loss rate: 0.00%

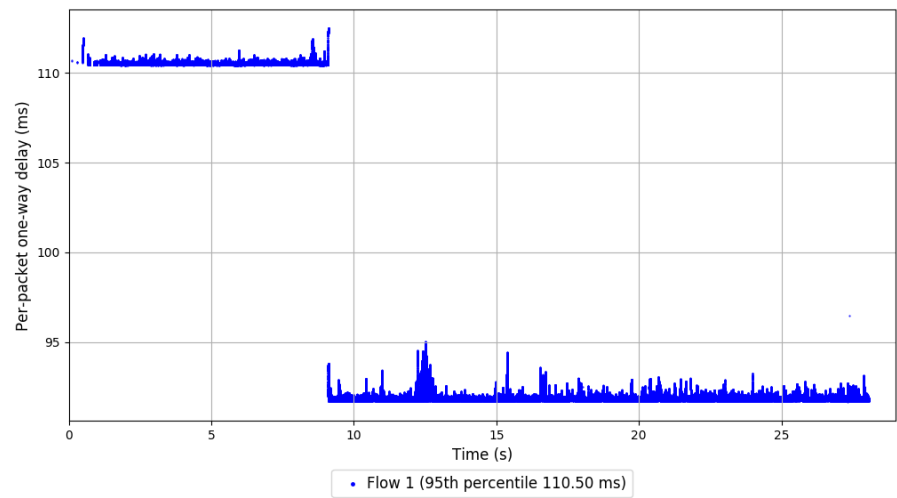
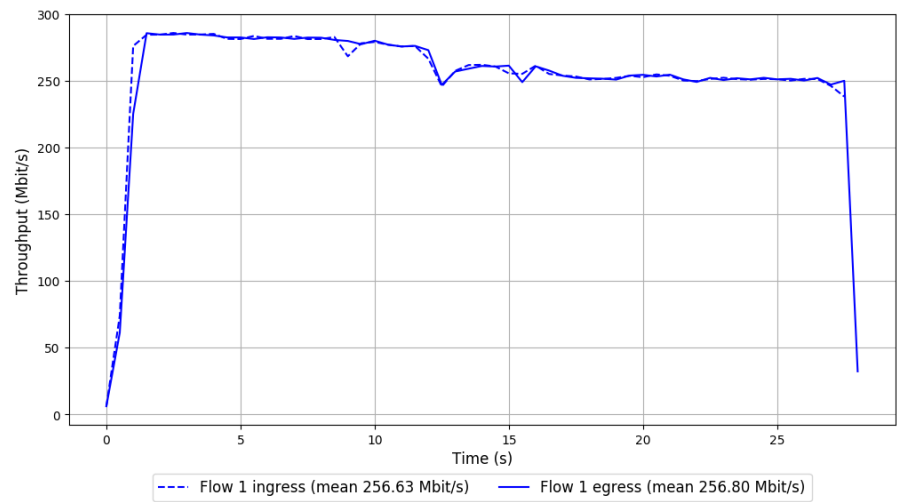
-- Flow 1:

Average throughput: 256.80 Mbit/s

95th percentile per-packet one-way delay: 110.498 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-12-11 16:17:22

End at: 2017-12-11 16:17:52

Local clock offset: -0.503 ms

Remote clock offset: 1.645 ms

# Below is generated by plot.py at 2017-12-11 17:53:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 272.62 Mbit/s

95th percentile per-packet one-way delay: 86.913 ms

Loss rate: 0.00%

-- Flow 1:

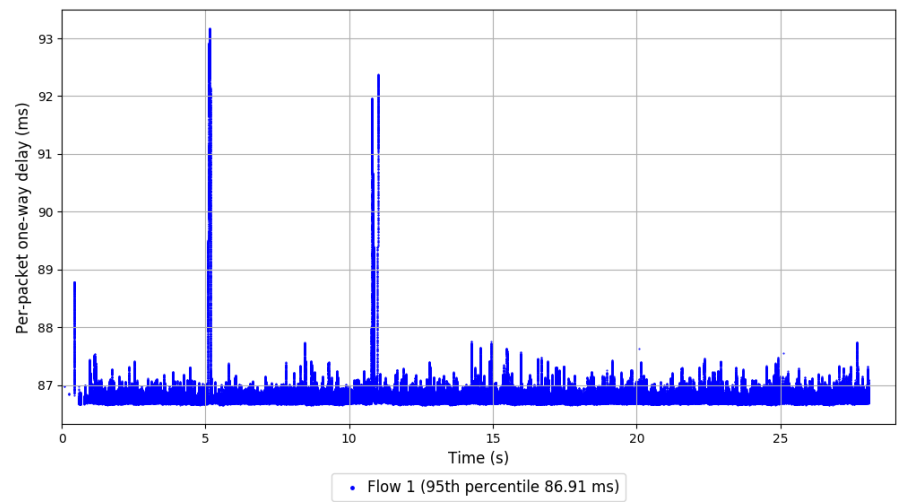
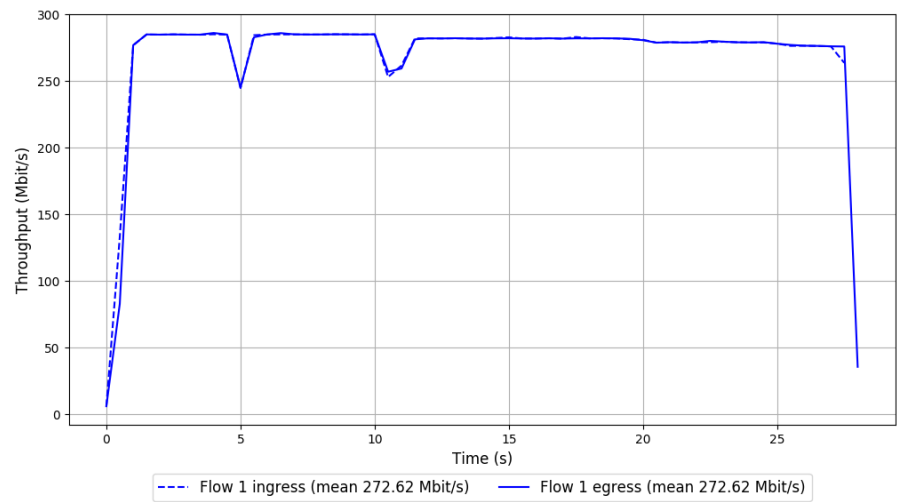
Average throughput: 272.62 Mbit/s

95th percentile per-packet one-way delay: 86.913 ms

Loss rate: 0.00%



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

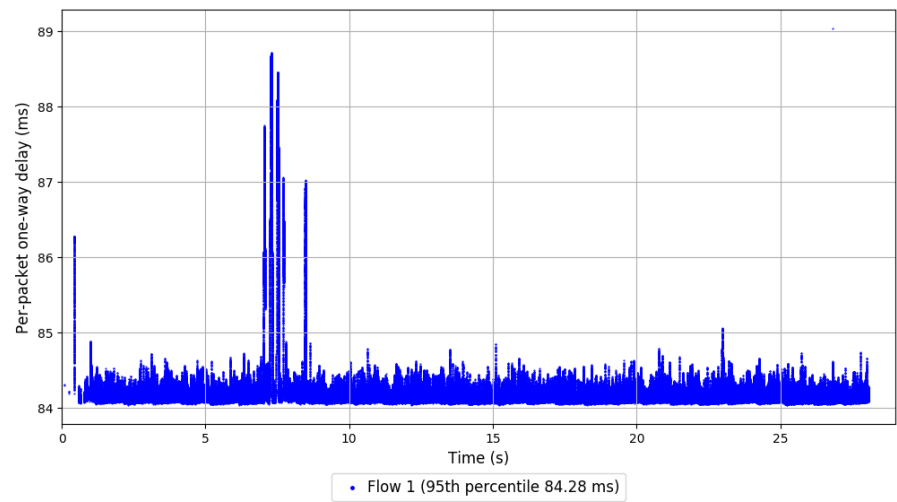
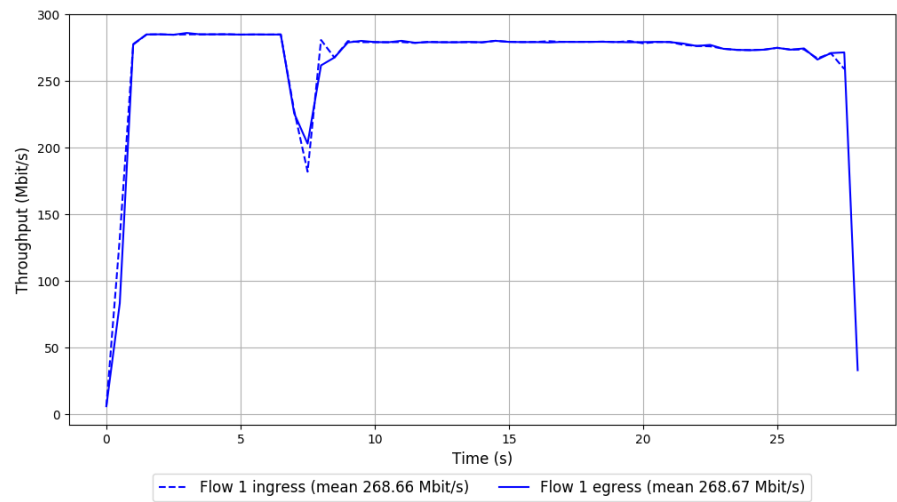


Run 10: Statistics of TaoVA-100x

Start at: 2017-12-11 16:35:21  
End at: 2017-12-11 16:35:51  
Local clock offset: -0.452 ms  
Remote clock offset: -1.042 ms

# Below is generated by plot.py at 2017-12-11 17:53:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 268.67 Mbit/s  
95th percentile per-packet one-way delay: 84.284 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 268.67 Mbit/s  
95th percentile per-packet one-way delay: 84.284 ms  
Loss rate: 0.00%

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

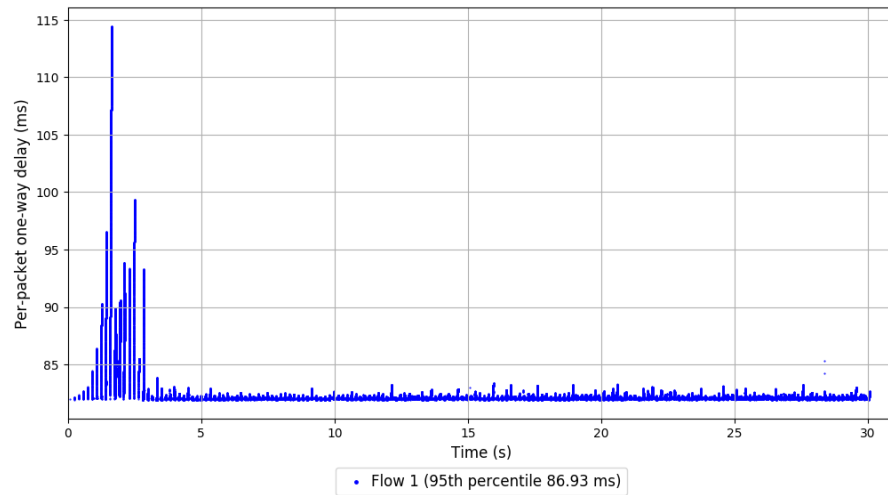
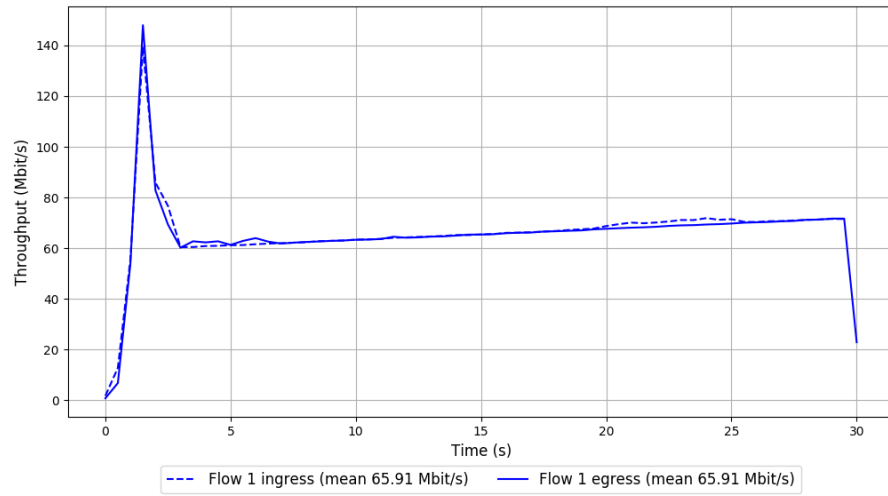


Run 1: Statistics of TCP Vegas

Start at: 2017-12-11 13:52:27  
End at: 2017-12-11 13:52:57  
Local clock offset: -0.317 ms  
Remote clock offset: -4.576 ms

# Below is generated by plot.py at 2017-12-11 17:53:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 65.91 Mbit/s  
95th percentile per-packet one-way delay: 86.931 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 65.91 Mbit/s  
95th percentile per-packet one-way delay: 86.931 ms  
Loss rate: 0.00%

### Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-12-11 14:10:34

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

Local clock offset: -0.402 ms

Remote clock offset: 0.991 ms

# Below is generated by plot.py at 2017-12-11 17:53:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.11 Mbit/s

95th percentile per-packet one-way delay: 90.638 ms

Loss rate: 0.00%

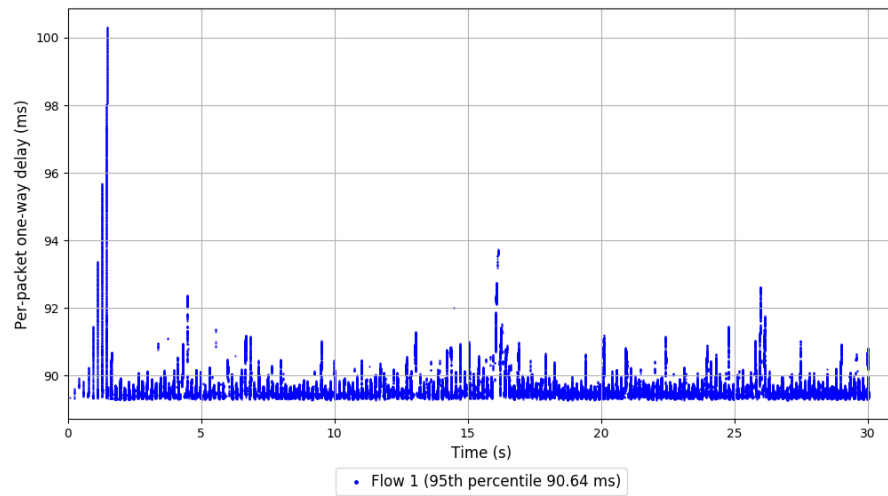
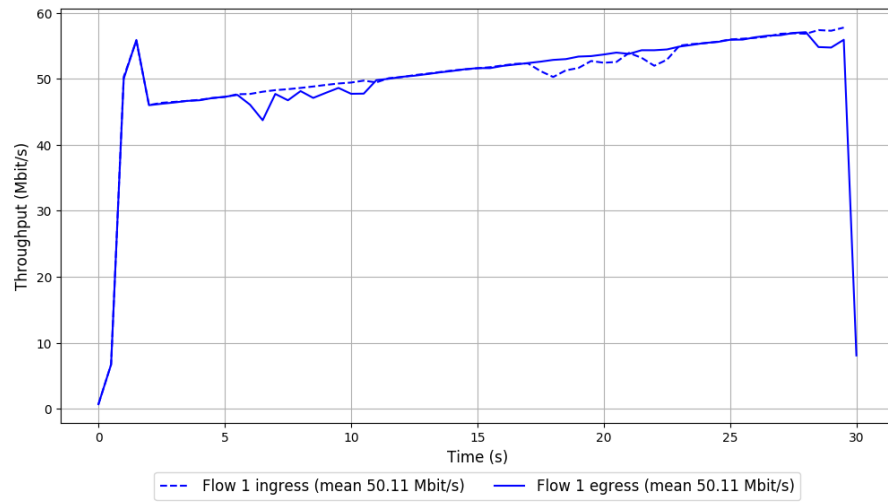
-- Flow 1:

Average throughput: 50.11 Mbit/s

95th percentile per-packet one-way delay: 90.638 ms

Loss rate: 0.00%

## Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-12-11 14:28:35

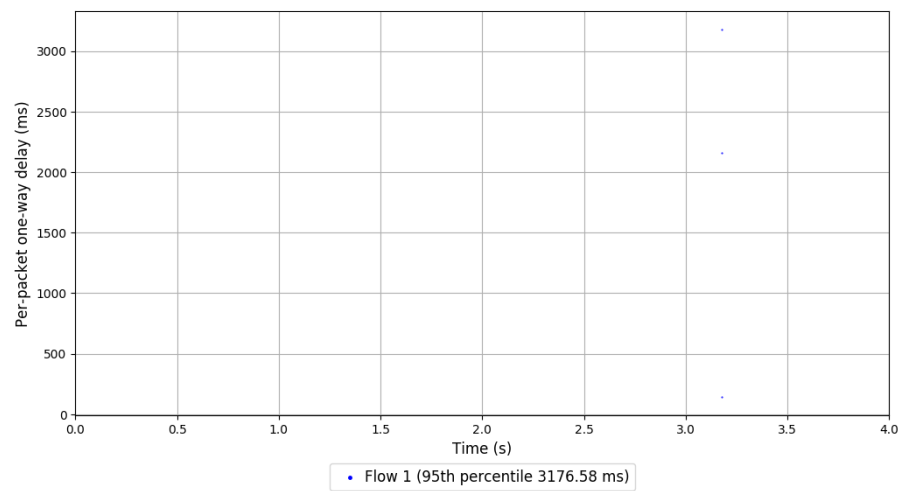
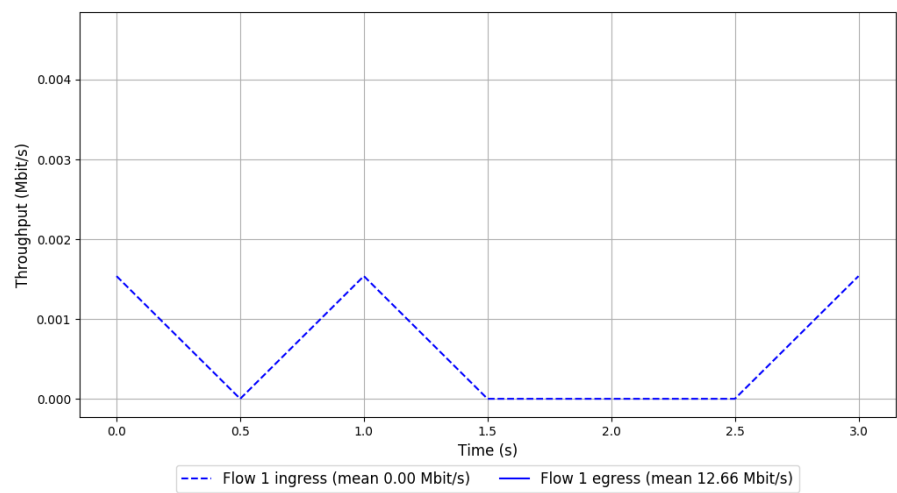
End at: 2017-12-11 14:29:05

Local clock offset: -0.375 ms

Remote clock offset: 1.388 ms



Run 3: Report of TCP Vegas — Data Link

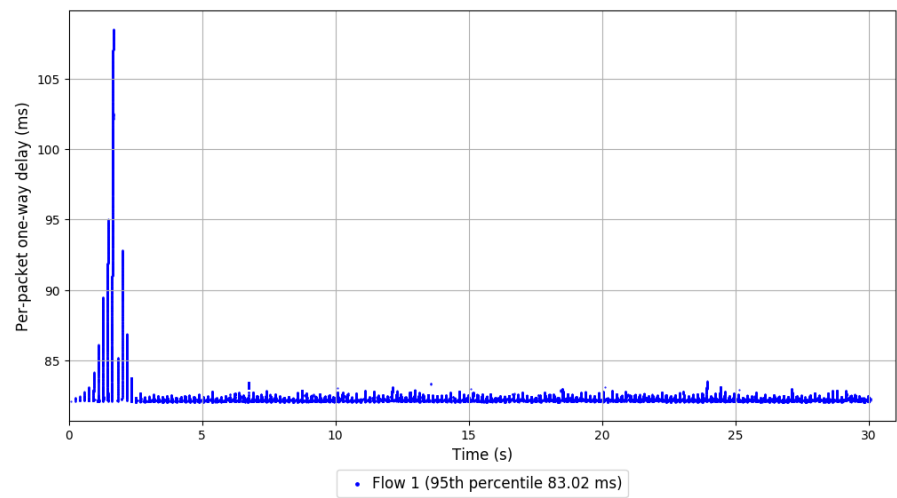
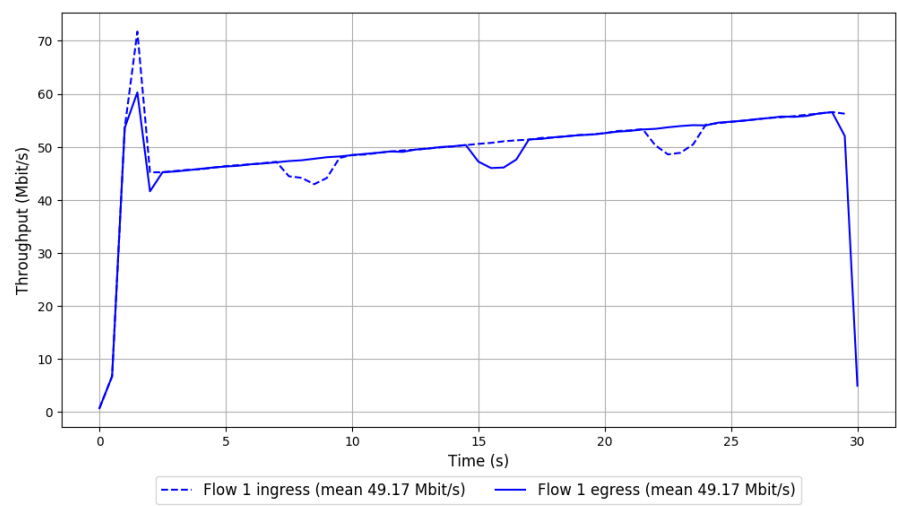


Run 4: Statistics of TCP Vegas

Start at: 2017-12-11 14:46:31  
End at: 2017-12-11 14:47:01  
Local clock offset: -0.449 ms  
Remote clock offset: -3.623 ms

# Below is generated by plot.py at 2017-12-11 17:53:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 49.17 Mbit/s  
95th percentile per-packet one-way delay: 83.018 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 49.17 Mbit/s  
95th percentile per-packet one-way delay: 83.018 ms  
Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link

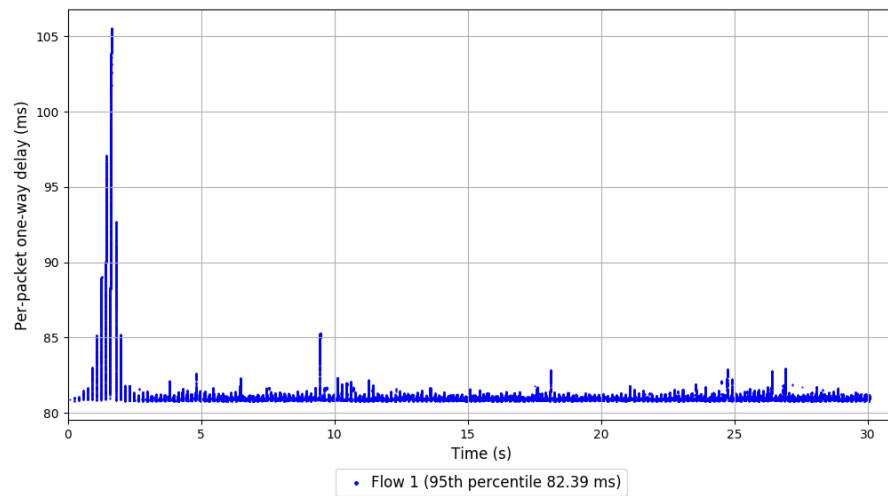
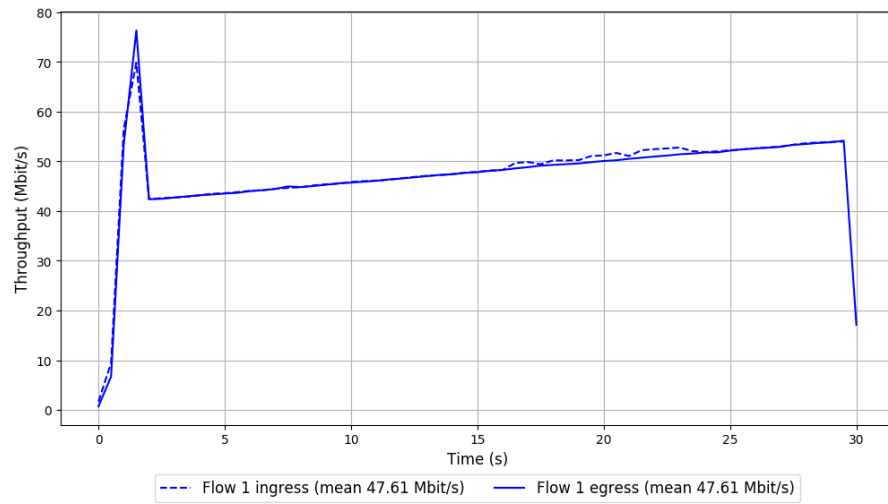


Run 5: Statistics of TCP Vegas

Start at: 2017-12-11 15:04:19  
End at: 2017-12-11 15:04:49  
Local clock offset: -0.447 ms  
Remote clock offset: -4.764 ms

# Below is generated by plot.py at 2017-12-11 17:53:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 47.61 Mbit/s  
95th percentile per-packet one-way delay: 82.392 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 47.61 Mbit/s  
95th percentile per-packet one-way delay: 82.392 ms  
Loss rate: 0.01%

### Run 5: Report of TCP Vegas — Data Link

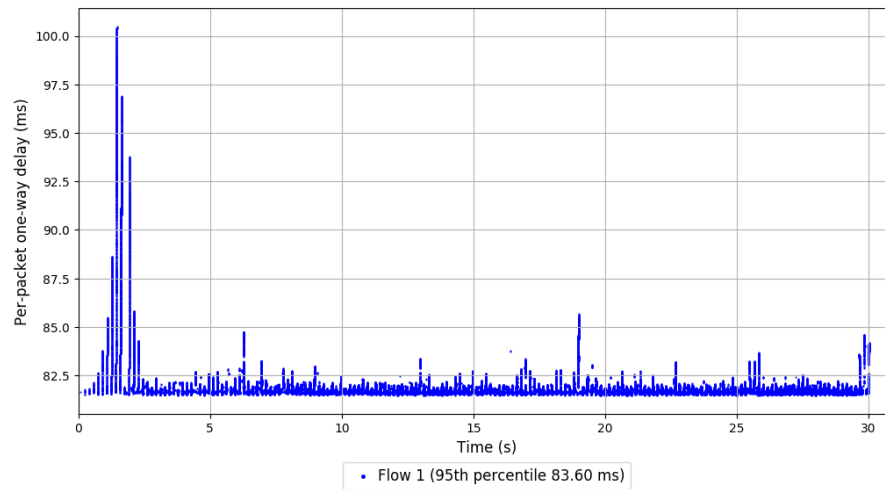
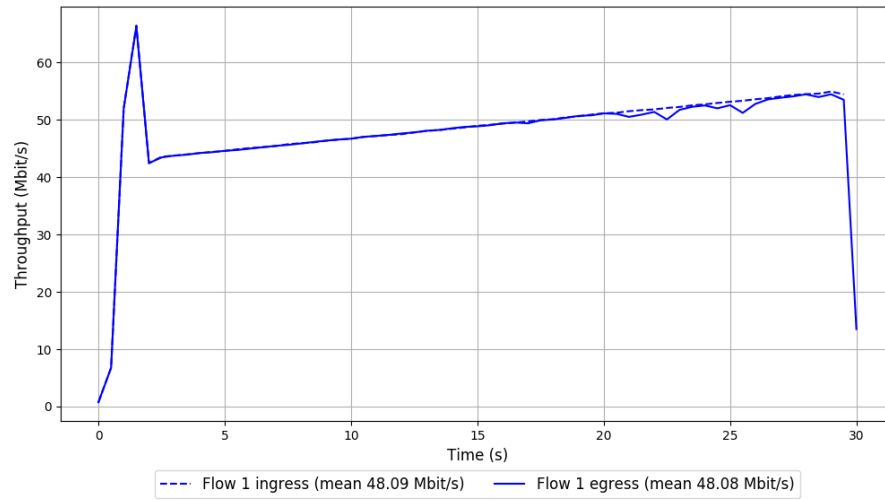


Run 6: Statistics of TCP Vegas

Start at: 2017-12-11 15:22:21  
End at: 2017-12-11 15:22:51  
Local clock offset: -0.469 ms  
Remote clock offset: -3.835 ms

# Below is generated by plot.py at 2017-12-11 17:53:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 48.08 Mbit/s  
95th percentile per-packet one-way delay: 83.598 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 48.08 Mbit/s  
95th percentile per-packet one-way delay: 83.598 ms  
Loss rate: 0.00%

## Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-12-11 15:39:46

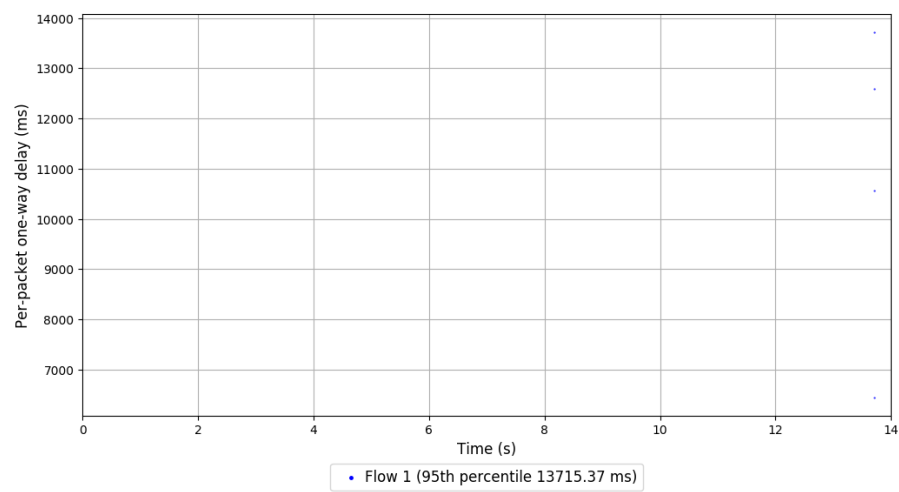
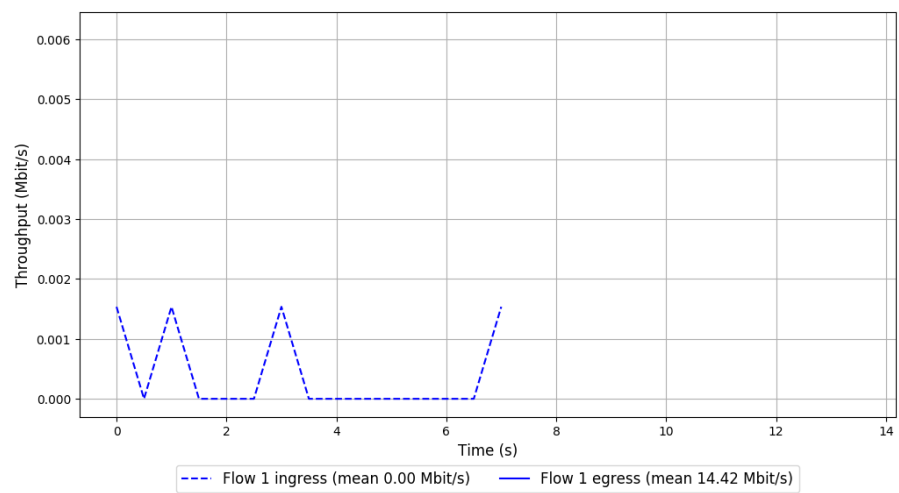
End at: 2017-12-11 15:40:17

Local clock offset: -0.462 ms

Remote clock offset: -3.379 ms



Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-12-11 15:57:52

End at: 2017-12-11 15:58:22

Local clock offset: -0.489 ms

Remote clock offset: 7.195 ms

# Below is generated by plot.py at 2017-12-11 17:53:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 117.74 Mbit/s

95th percentile per-packet one-way delay: 105.594 ms

Loss rate: 0.00%

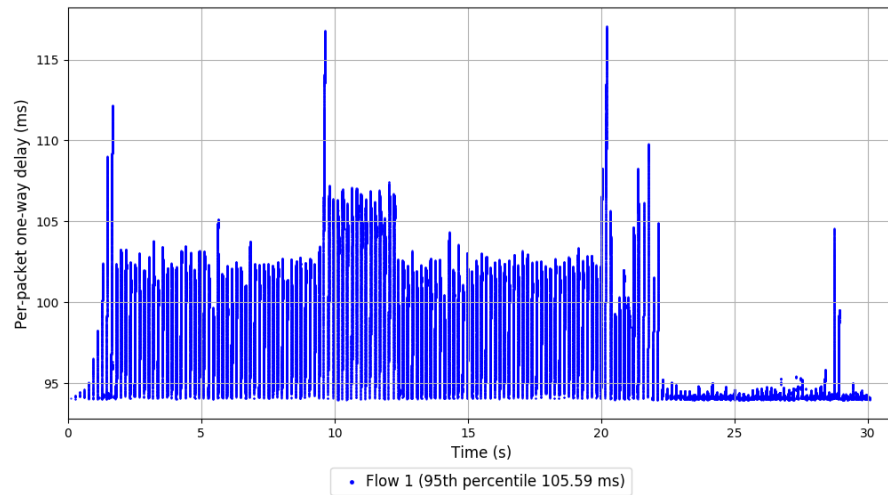
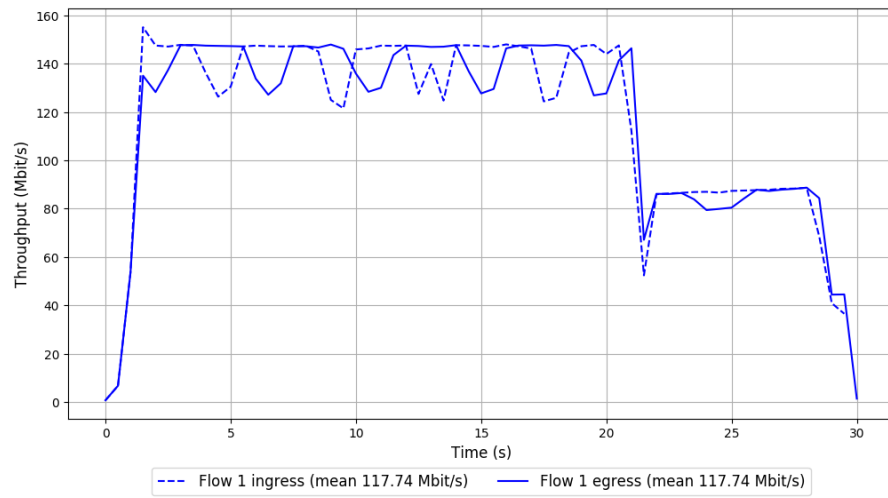
-- Flow 1:

Average throughput: 117.74 Mbit/s

95th percentile per-packet one-way delay: 105.594 ms

Loss rate: 0.00%

### Run 8: Report of TCP Vegas — Data Link

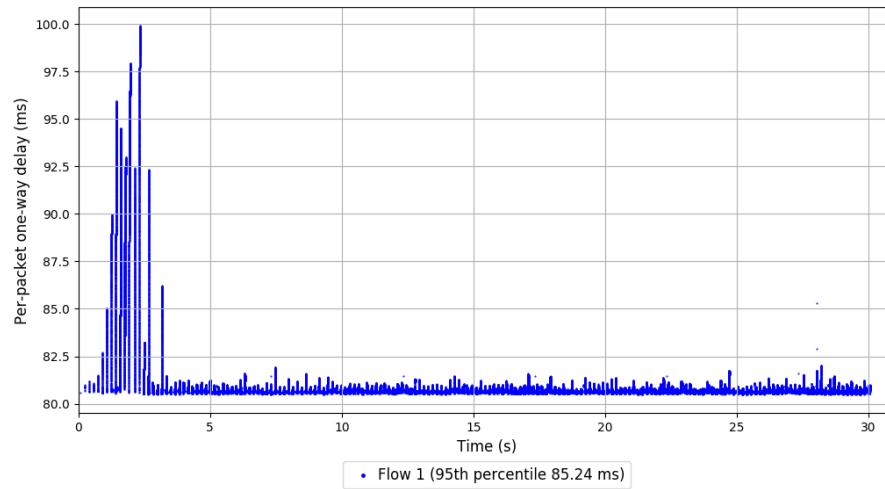
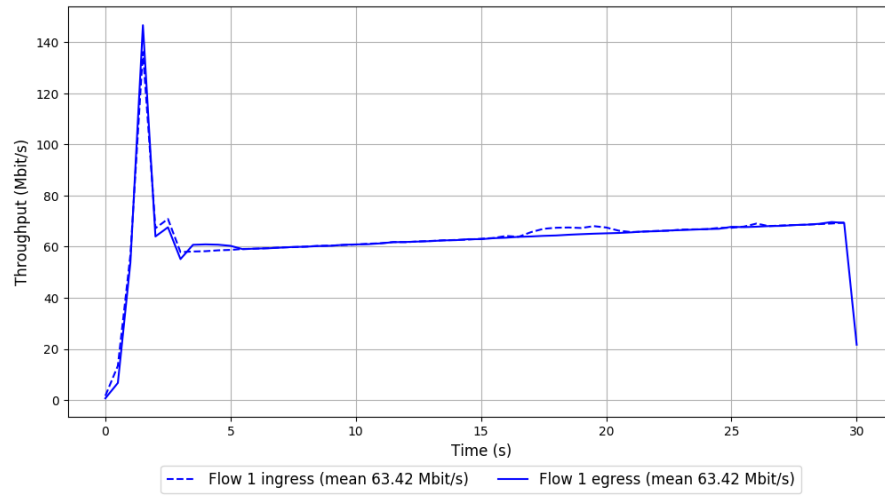


Run 9: Statistics of TCP Vegas

Start at: 2017-12-11 16:16:09  
End at: 2017-12-11 16:16:39  
Local clock offset: -0.439 ms  
Remote clock offset: -4.334 ms

# Below is generated by plot.py at 2017-12-11 17:53:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 63.42 Mbit/s  
95th percentile per-packet one-way delay: 85.242 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 63.42 Mbit/s  
95th percentile per-packet one-way delay: 85.242 ms  
Loss rate: 0.01%

### Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-12-11 16:34:07

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

Local clock offset: -0.388 ms

Remote clock offset: 2.281 ms

# Below is generated by plot.py at 2017-12-11 17:53:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 72.25 Mbit/s

95th percentile per-packet one-way delay: 97.050 ms

Loss rate: 0.00%

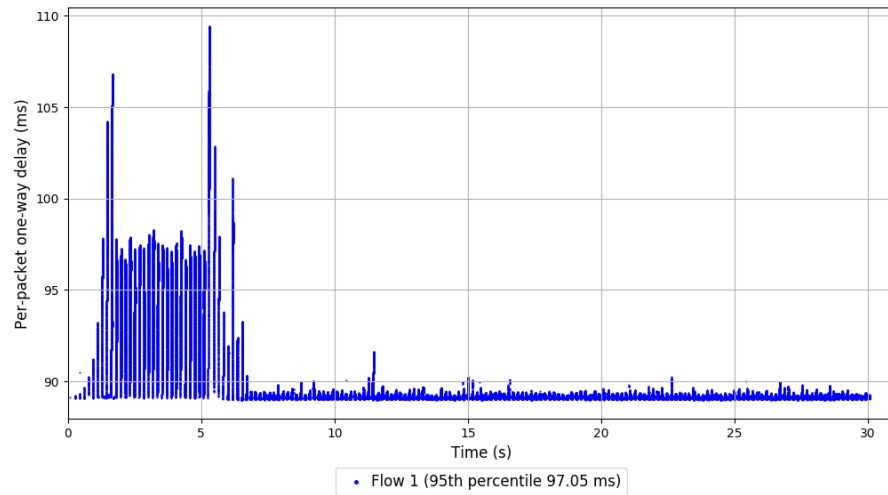
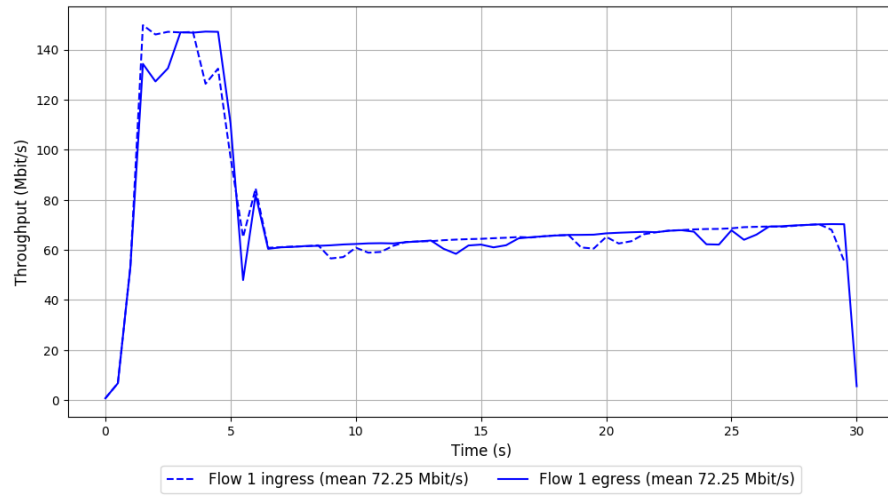
-- Flow 1:

Average throughput: 72.25 Mbit/s

95th percentile per-packet one-way delay: 97.050 ms

Loss rate: 0.00%

### Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-12-11 14:07:57

End at: 2017-12-11 14:08:27

Local clock offset: -0.435 ms

Remote clock offset: 1.362 ms

# Below is generated by plot.py at 2017-12-11 17:53:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 233.18 Mbit/s

95th percentile per-packet one-way delay: 100.710 ms

Loss rate: 0.01%

-- Flow 1:

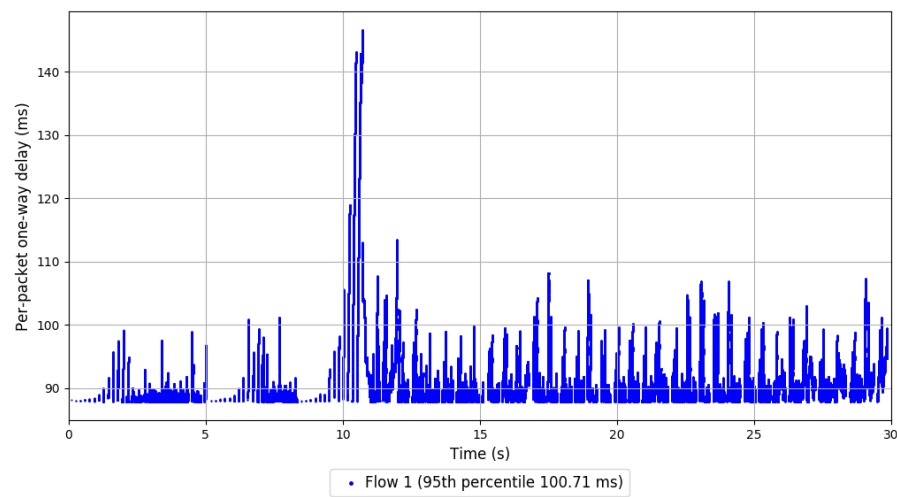
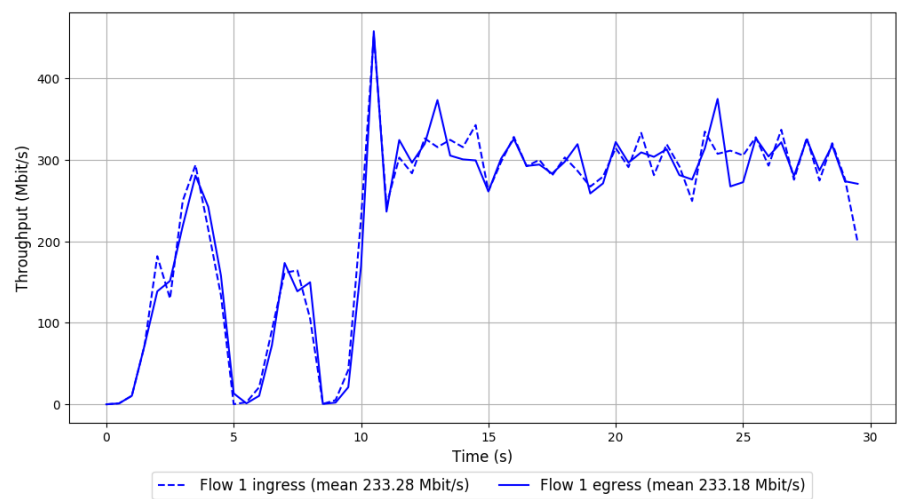
Average throughput: 233.18 Mbit/s

95th percentile per-packet one-way delay: 100.710 ms

Loss rate: 0.01%



Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-12-11 14:26:06

End at: 2017-12-11 14:26:36

Local clock offset: -0.403 ms

Remote clock offset: 0.45 ms

# Below is generated by plot.py at 2017-12-11 17:53:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 148.26 Mbit/s

95th percentile per-packet one-way delay: 211.135 ms

Loss rate: 5.20%

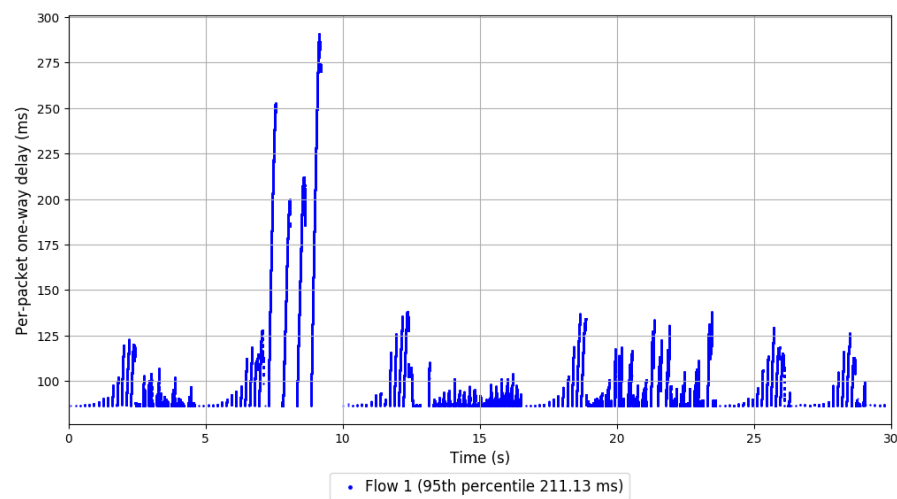
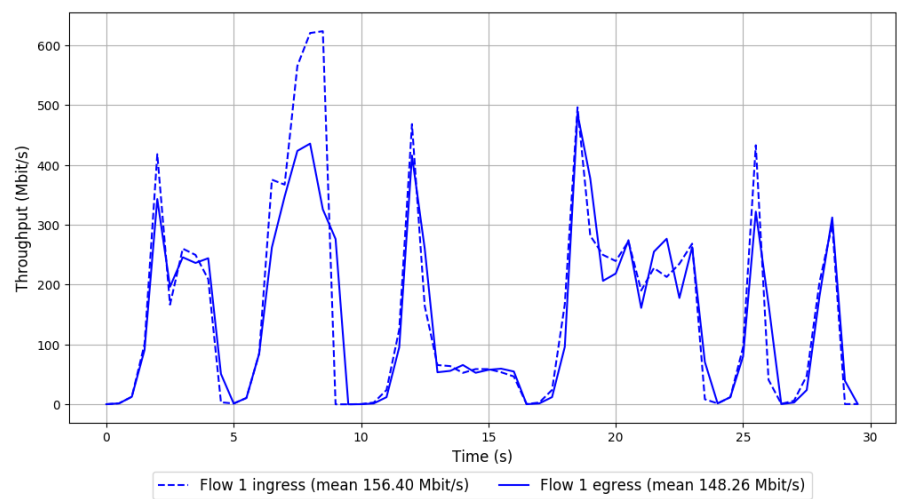
-- Flow 1:

Average throughput: 148.26 Mbit/s

95th percentile per-packet one-way delay: 211.135 ms

Loss rate: 5.20%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-12-11 14:43:53

End at: 2017-12-11 14:44:23

Local clock offset: -0.425 ms

Remote clock offset: 0.821 ms

# Below is generated by plot.py at 2017-12-11 17:53:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 263.55 Mbit/s

95th percentile per-packet one-way delay: 117.774 ms

Loss rate: 0.23%

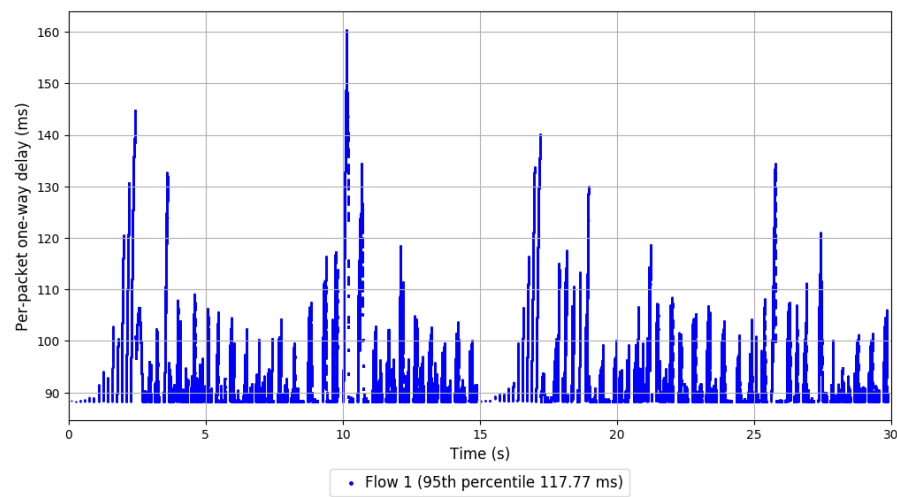
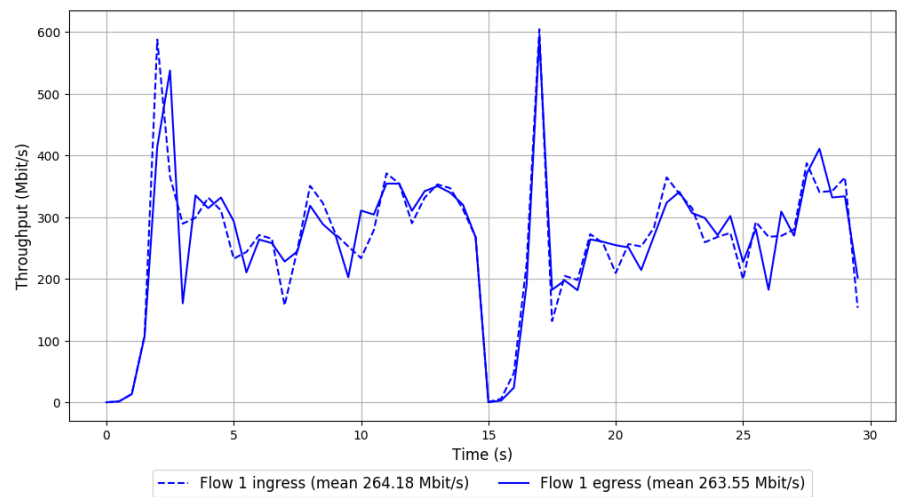
-- Flow 1:

Average throughput: 263.55 Mbit/s

95th percentile per-packet one-way delay: 117.774 ms

Loss rate: 0.23%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-12-11 15:01:38

End at: 2017-12-11 15:02:09

Local clock offset: -0.475 ms

Remote clock offset: 0.35 ms

# Below is generated by plot.py at 2017-12-11 17:53:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 294.36 Mbit/s

95th percentile per-packet one-way delay: 125.998 ms

Loss rate: 0.48%

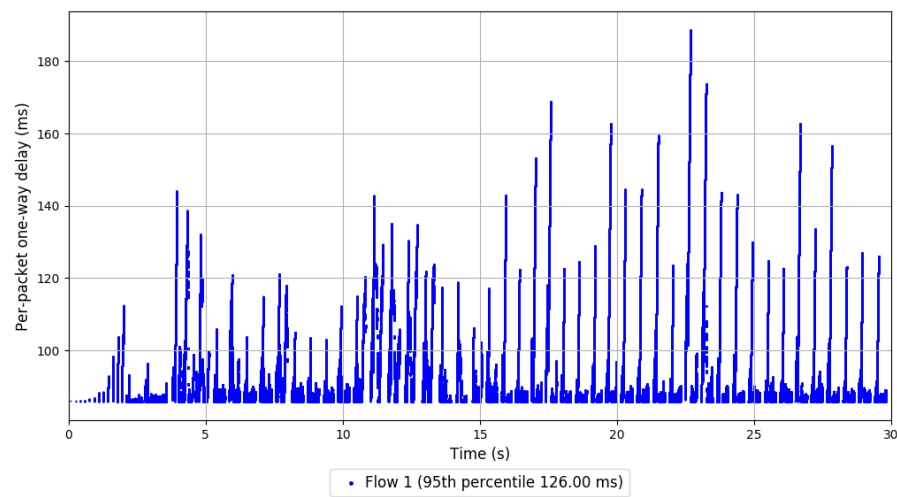
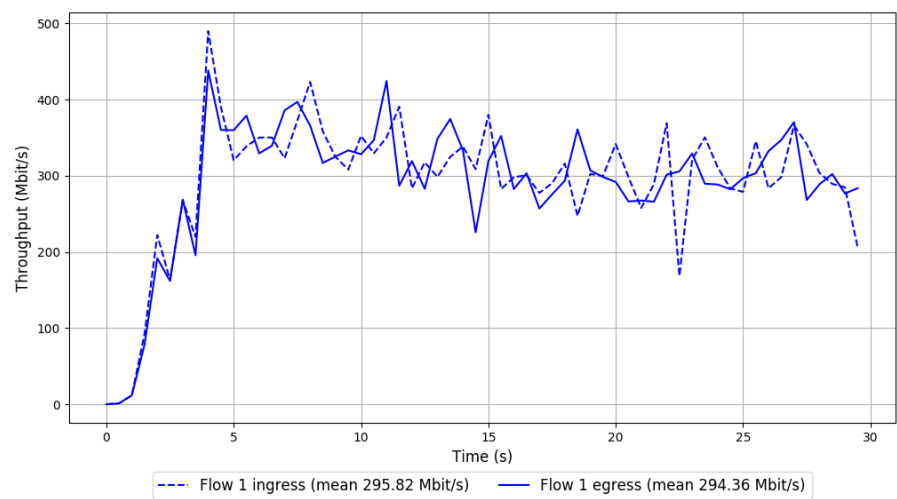
-- Flow 1:

Average throughput: 294.36 Mbit/s

95th percentile per-packet one-way delay: 125.998 ms

Loss rate: 0.48%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-12-11 15:19:45

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

Local clock offset: -0.461 ms

Remote clock offset: 1.347 ms

# Below is generated by plot.py at 2017-12-11 17:53:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 260.55 Mbit/s

95th percentile per-packet one-way delay: 191.978 ms

Loss rate: 2.51%

-- Flow 1:

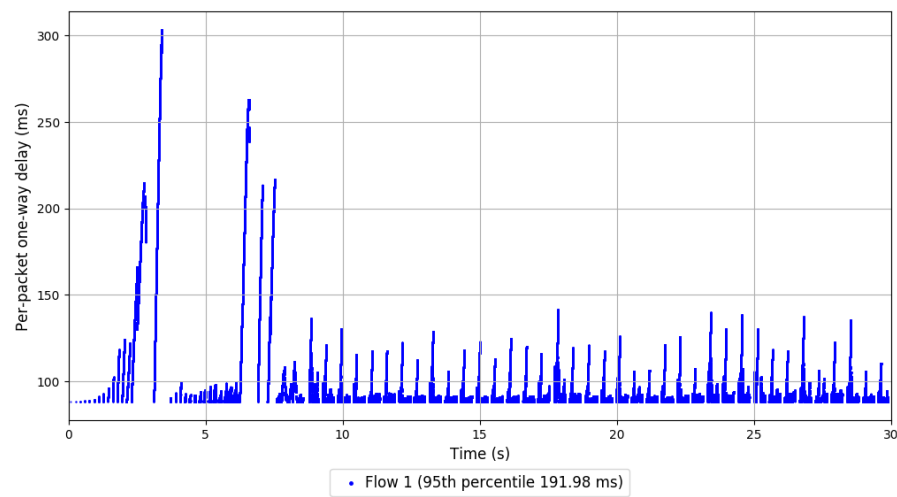
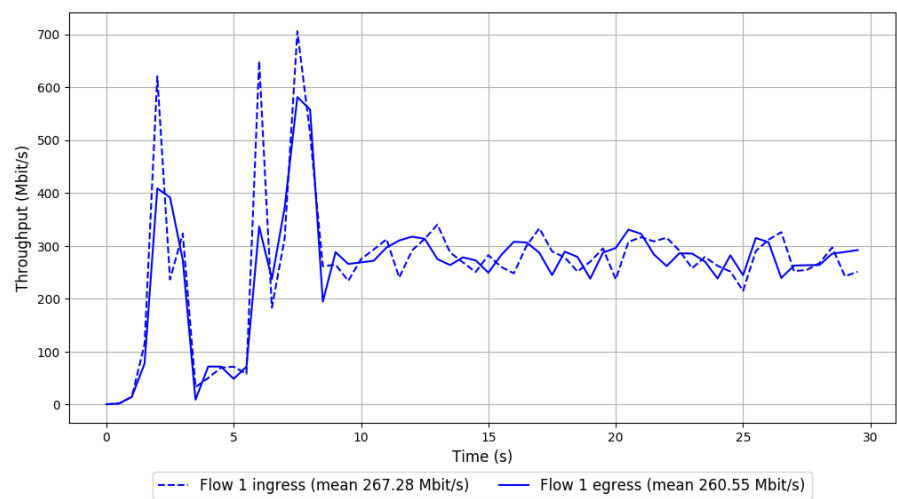
Average throughput: 260.55 Mbit/s

95th percentile per-packet one-way delay: 191.978 ms

Loss rate: 2.51%



Run 5: Report of Verus — Data Link

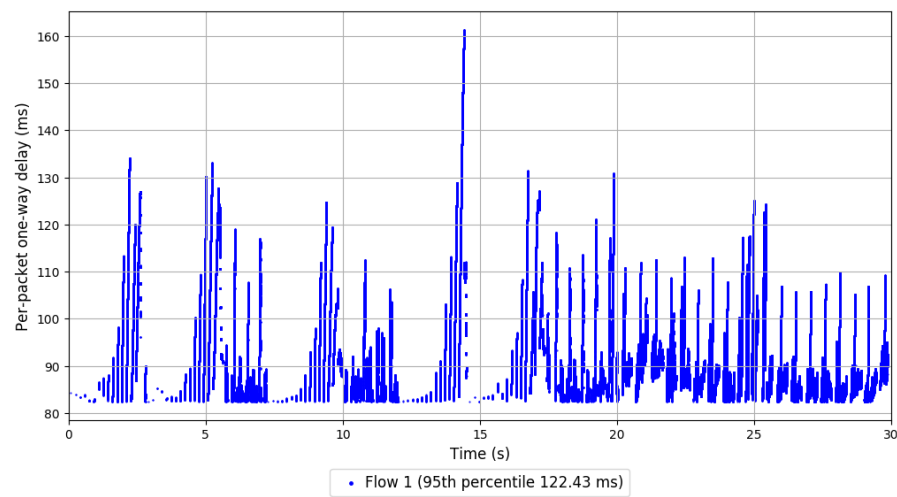
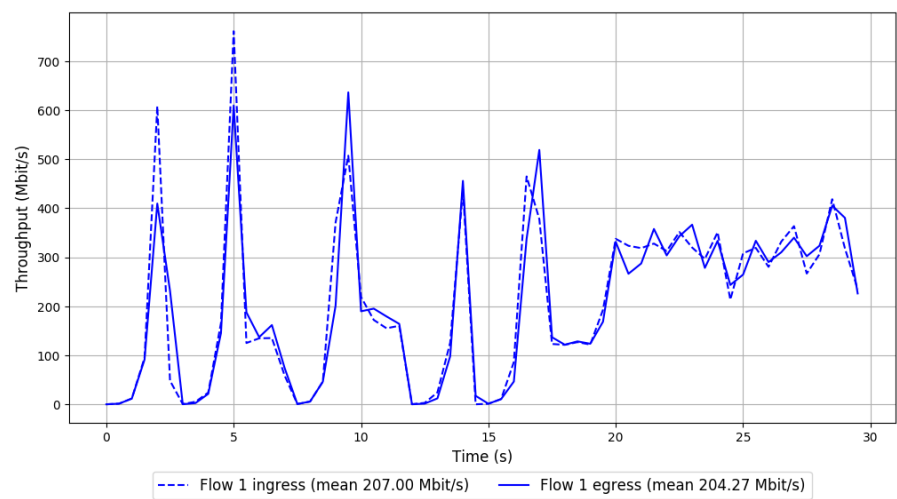


Run 6: Statistics of Verus

Start at: 2017-12-11 15:37:14  
End at: 2017-12-11 15:37:44  
Local clock offset: -0.549 ms  
Remote clock offset: -2.986 ms

# Below is generated by plot.py at 2017-12-11 17:53:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 204.27 Mbit/s  
95th percentile per-packet one-way delay: 122.433 ms  
Loss rate: 1.31%  
-- Flow 1:  
Average throughput: 204.27 Mbit/s  
95th percentile per-packet one-way delay: 122.433 ms  
Loss rate: 1.31%

Run 6: Report of Verus — Data Link

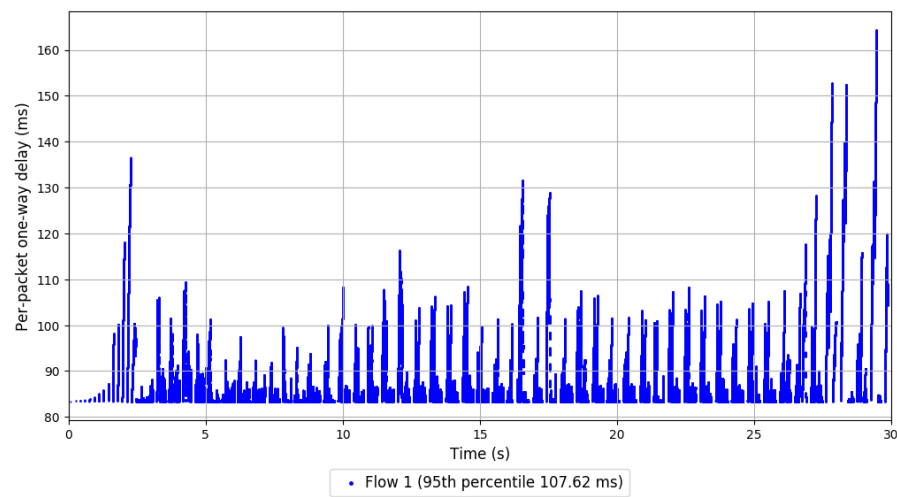
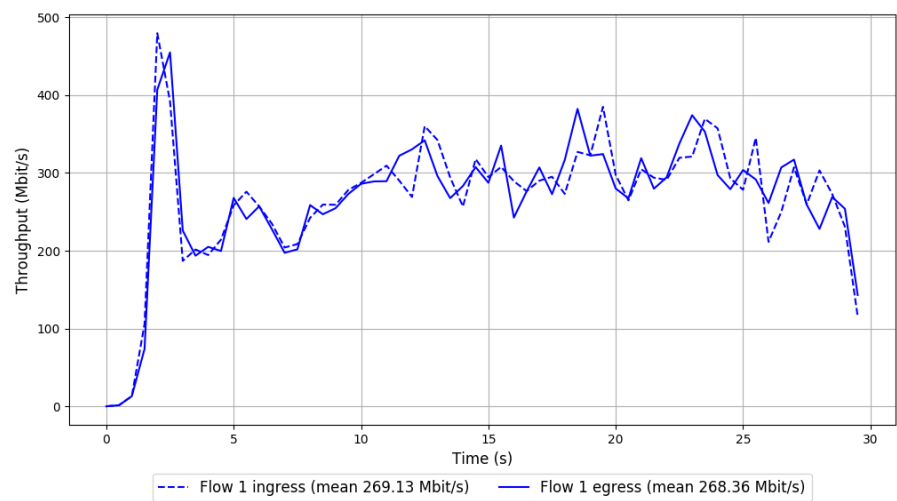


Run 7: Statistics of Verus

Start at: 2017-12-11 15:55:14  
End at: 2017-12-11 15:55:44  
Local clock offset: -0.457 ms  
Remote clock offset: -3.428 ms

# Below is generated by plot.py at 2017-12-11 17:53:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 268.36 Mbit/s  
95th percentile per-packet one-way delay: 107.619 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 268.36 Mbit/s  
95th percentile per-packet one-way delay: 107.619 ms  
Loss rate: 0.27%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-12-11 16:13:27

End at: 2017-12-11 16:13:57

Local clock offset: -0.452 ms

Remote clock offset: 1.926 ms

# Below is generated by plot.py at 2017-12-11 17:55:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 325.00 Mbit/s

95th percentile per-packet one-way delay: 191.580 ms

Loss rate: 1.82%

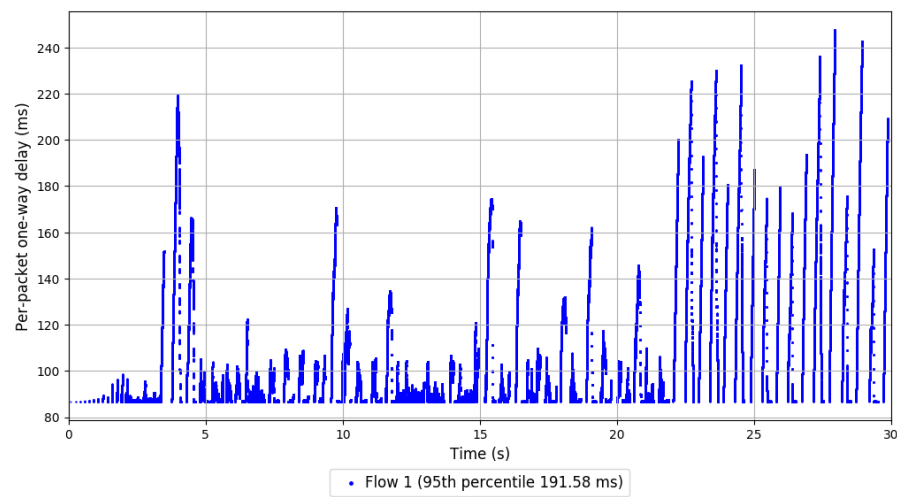
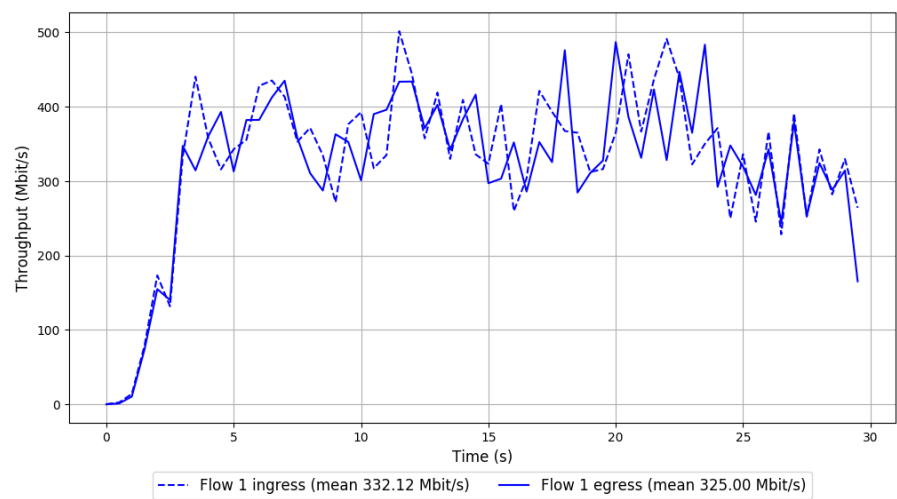
-- Flow 1:

Average throughput: 325.00 Mbit/s

95th percentile per-packet one-way delay: 191.580 ms

Loss rate: 1.82%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-12-11 16:31:37

End at: 2017-12-11 16:32:07

Local clock offset: -0.408 ms

Remote clock offset: 1.828 ms

# Below is generated by plot.py at 2017-12-11 17:55:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 144.16 Mbit/s

95th percentile per-packet one-way delay: 173.939 ms

Loss rate: 2.78%

-- Flow 1:

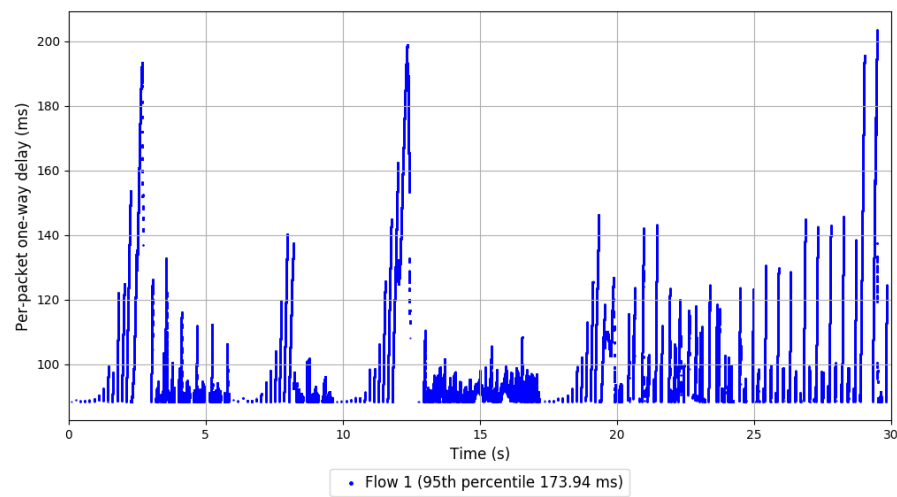
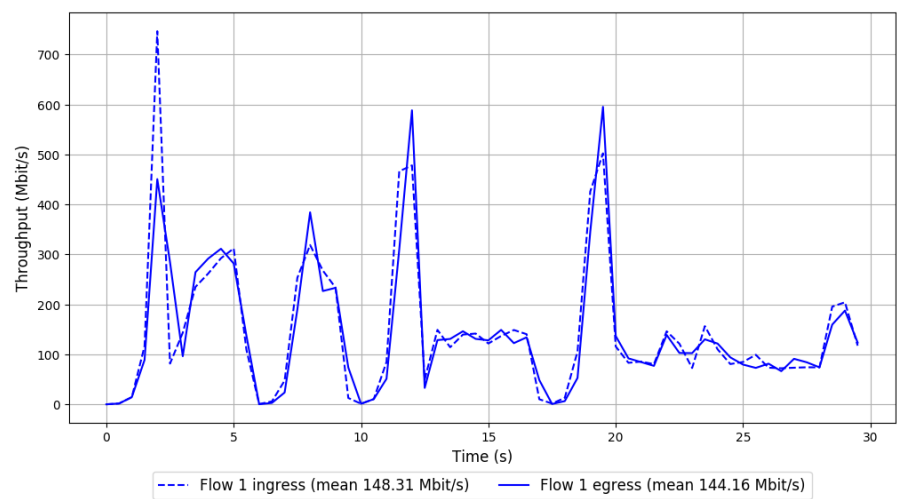
Average throughput: 144.16 Mbit/s

95th percentile per-packet one-way delay: 173.939 ms

Loss rate: 2.78%



Run 9: Report of Verus — Data Link

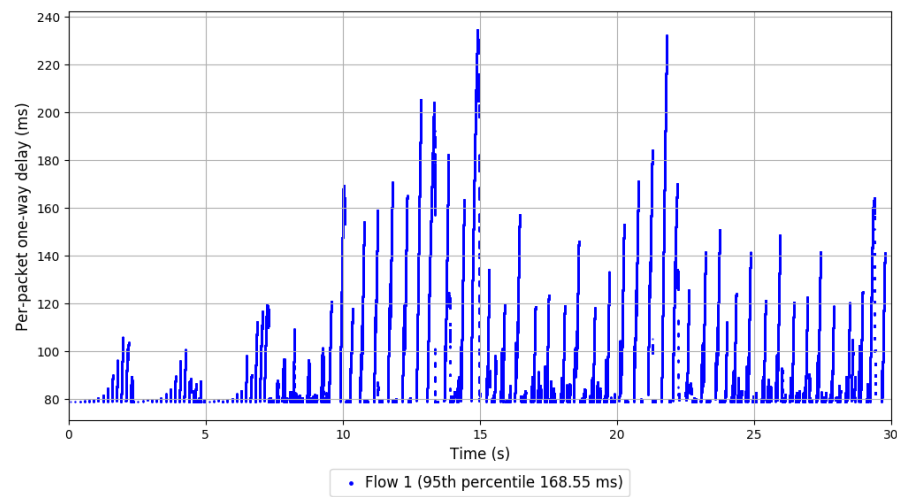
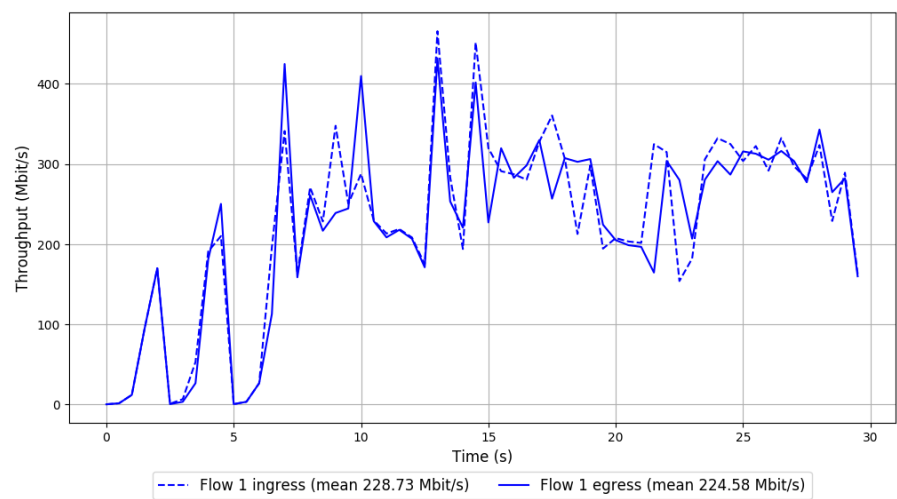


Run 10: Statistics of Verus

Start at: 2017-12-11 16:49:35  
End at: 2017-12-11 16:50:05  
Local clock offset: -0.397 ms  
Remote clock offset: -5.571 ms

# Below is generated by plot.py at 2017-12-11 17:55:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 224.58 Mbit/s  
95th percentile per-packet one-way delay: 168.549 ms  
Loss rate: 1.61%  
-- Flow 1:  
Average throughput: 224.58 Mbit/s  
95th percentile per-packet one-way delay: 168.549 ms  
Loss rate: 1.61%

Run 10: Report of Verus — Data Link

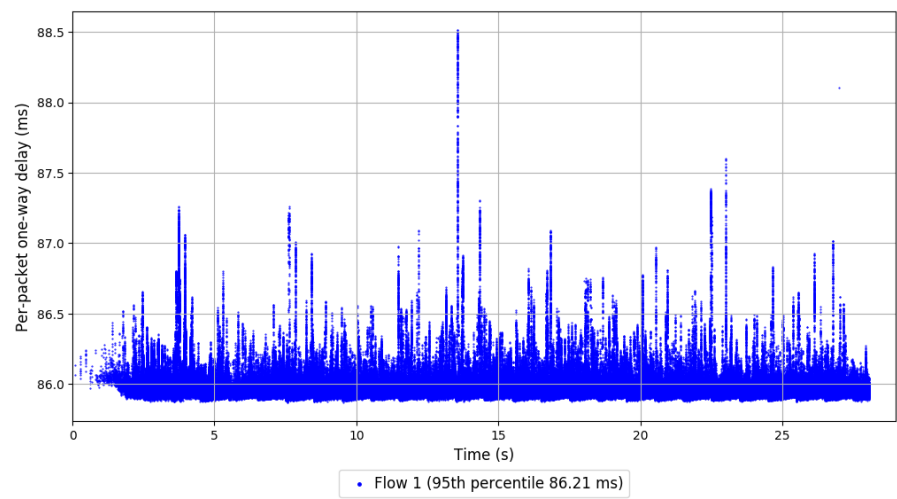
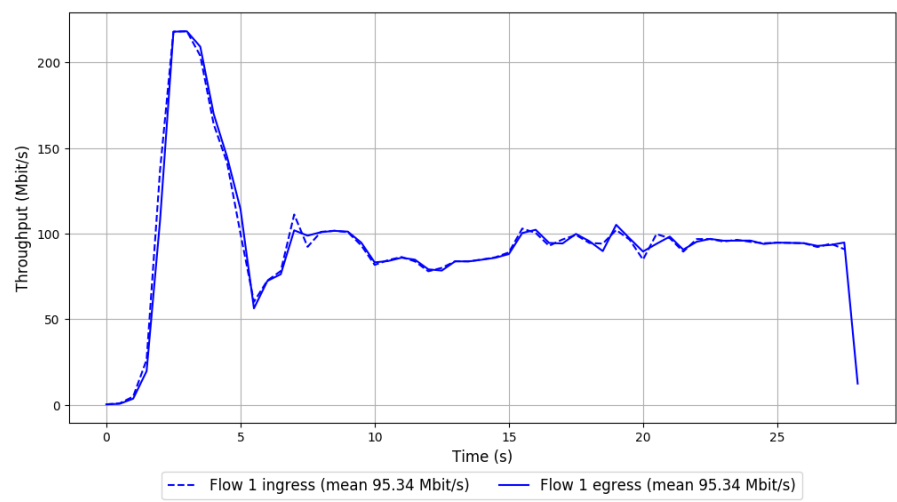


Run 1: Statistics of Copa

Start at: 2017-12-11 14:00:23  
End at: 2017-12-11 14:00:53  
Local clock offset: -0.352 ms  
Remote clock offset: -0.144 ms

# Below is generated by plot.py at 2017-12-11 17:55:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.34 Mbit/s  
95th percentile per-packet one-way delay: 86.206 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 95.34 Mbit/s  
95th percentile per-packet one-way delay: 86.206 ms  
Loss rate: 0.00%

Run 1: Report of Copa — Data Link

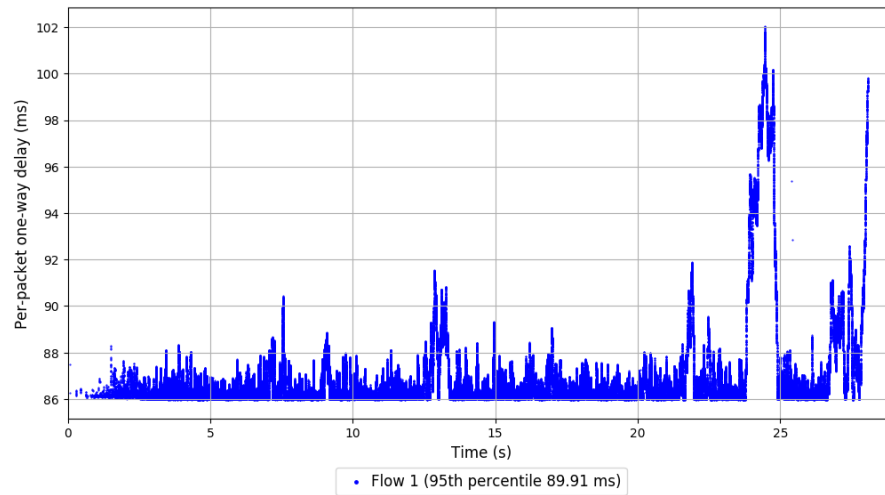
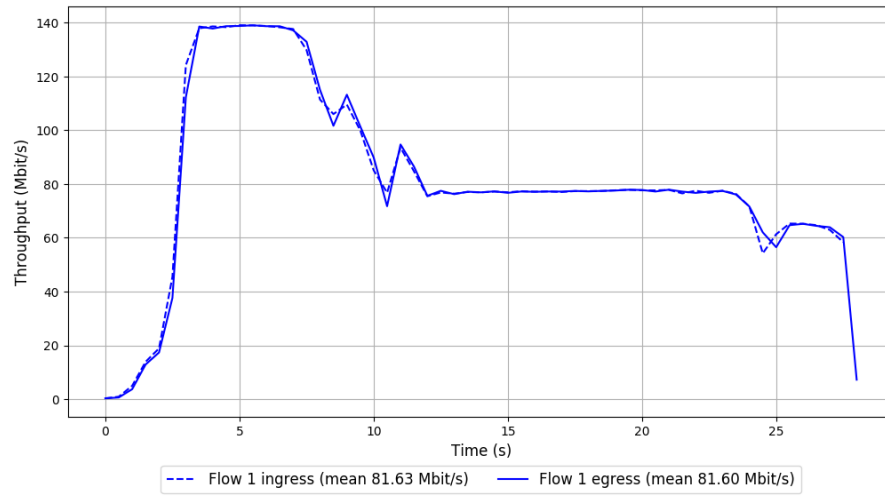


Run 2: Statistics of Copa

Start at: 2017-12-11 14:18:31  
End at: 2017-12-11 14:19:01  
Local clock offset: -0.388 ms  
Remote clock offset: -0.489 ms

# Below is generated by plot.py at 2017-12-11 17:55:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 81.60 Mbit/s  
95th percentile per-packet one-way delay: 89.907 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 81.60 Mbit/s  
95th percentile per-packet one-way delay: 89.907 ms  
Loss rate: 0.03%

## Run 2: Report of Copa — Data Link



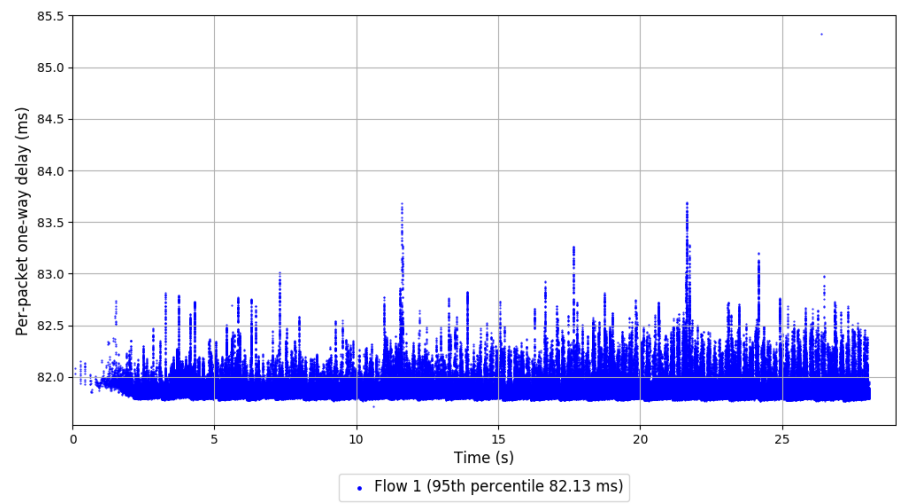
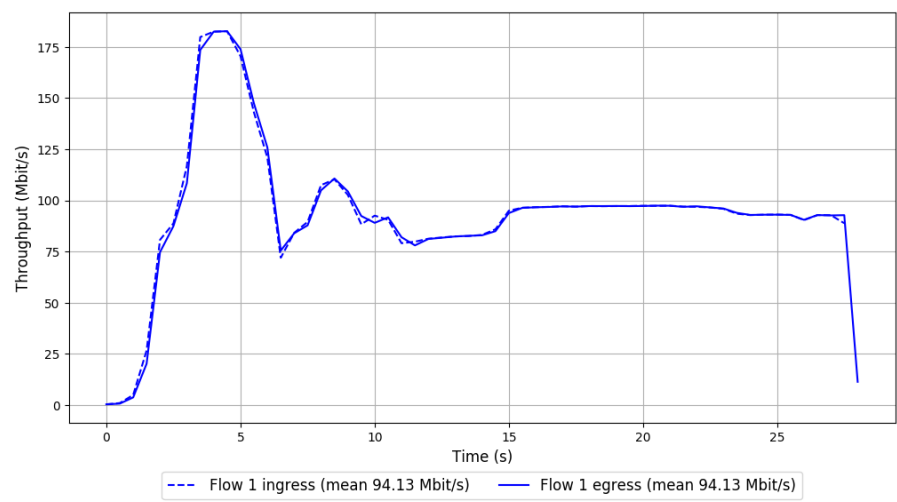
Run 3: Statistics of Copa

Start at: 2017-12-11 14:36:22  
End at: 2017-12-11 14:36:52  
Local clock offset: -0.437 ms  
Remote clock offset: -3.759 ms

# Below is generated by plot.py at 2017-12-11 17:55:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.13 Mbit/s  
95th percentile per-packet one-way delay: 82.127 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 94.13 Mbit/s  
95th percentile per-packet one-way delay: 82.127 ms  
Loss rate: 0.00%



Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-12-11 14:54:10

End at: 2017-12-11 14:54:40

Local clock offset: -0.429 ms

Remote clock offset: 1.582 ms

# Below is generated by plot.py at 2017-12-11 17:55:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 52.48 Mbit/s

95th percentile per-packet one-way delay: 89.778 ms

Loss rate: 0.00%

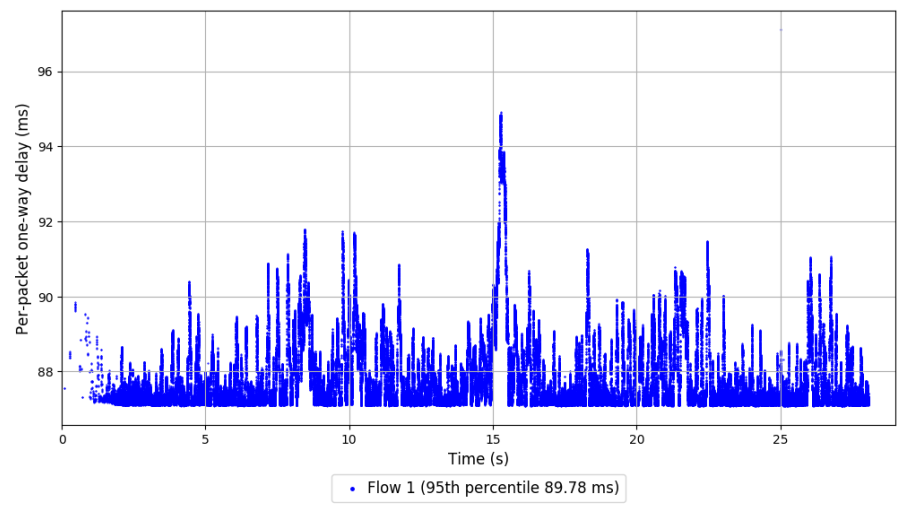
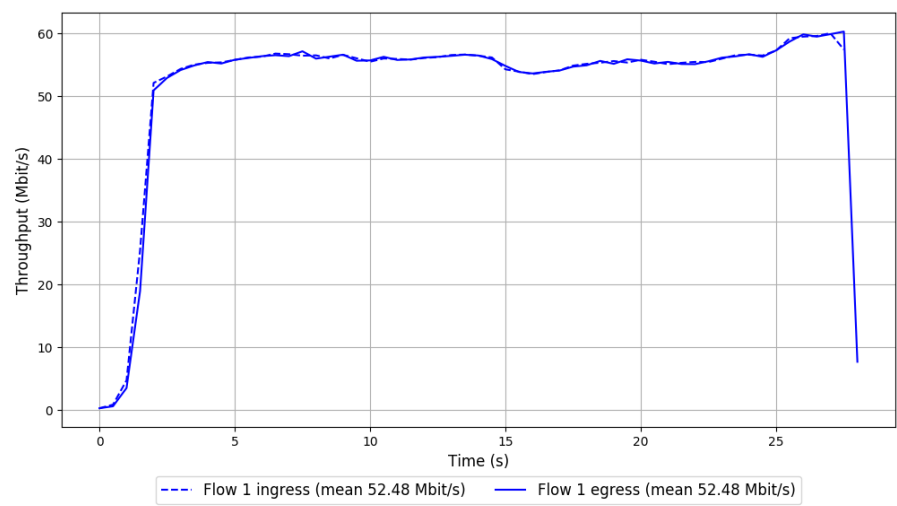
-- Flow 1:

Average throughput: 52.48 Mbit/s

95th percentile per-packet one-way delay: 89.778 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link

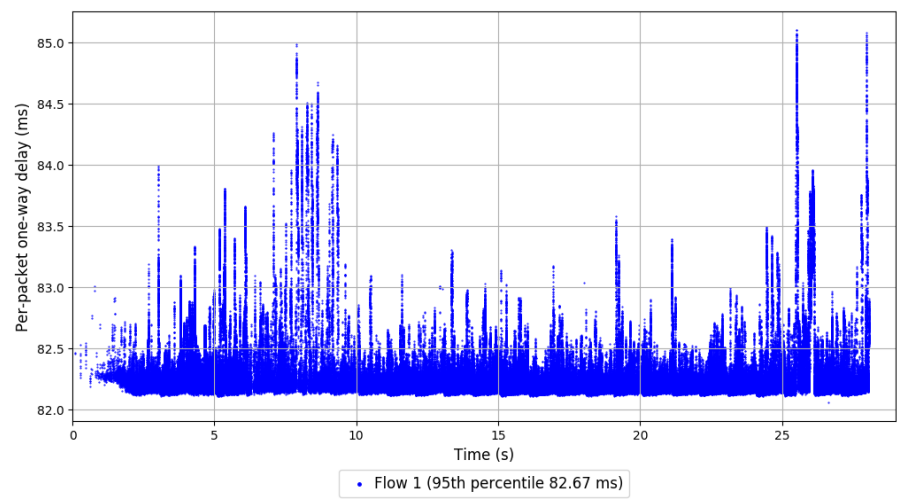
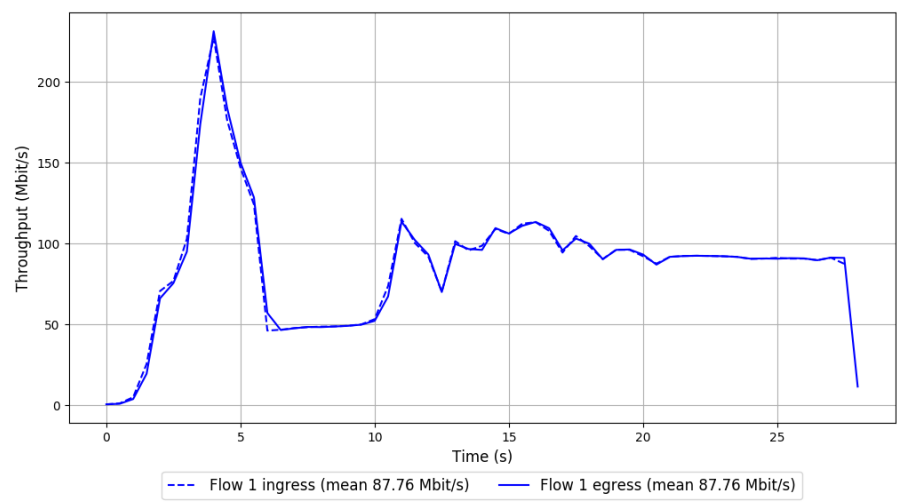


Run 5: Statistics of Copa

Start at: 2017-12-11 15:12:16  
End at: 2017-12-11 15:12:46  
Local clock offset: -0.461 ms  
Remote clock offset: -4.811 ms

# Below is generated by plot.py at 2017-12-11 17:56:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 87.76 Mbit/s  
95th percentile per-packet one-way delay: 82.675 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 87.76 Mbit/s  
95th percentile per-packet one-way delay: 82.675 ms  
Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-12-11 15:29:58

End at: 2017-12-11 15:30:28

Local clock offset: -0.559 ms

Remote clock offset: 0.971 ms

# Below is generated by plot.py at 2017-12-11 17:56:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 27.00 Mbit/s

95th percentile per-packet one-way delay: 112.532 ms

Loss rate: 0.00%

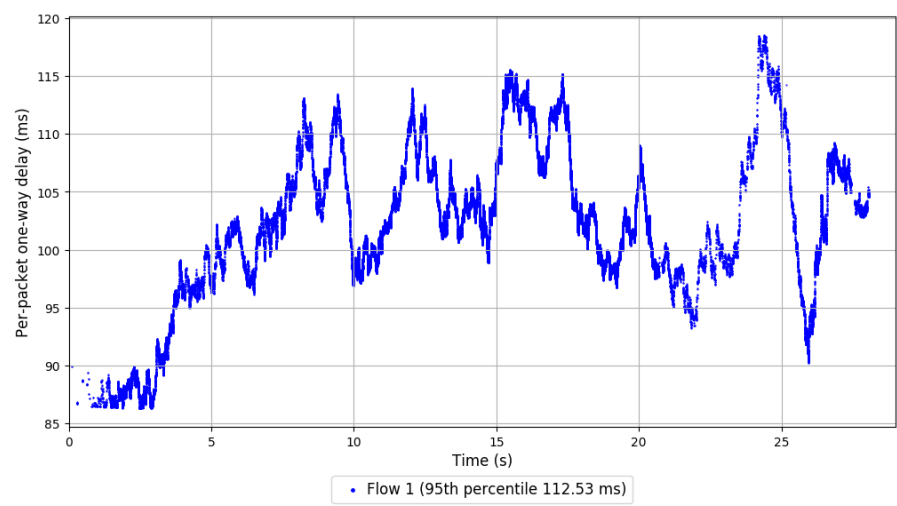
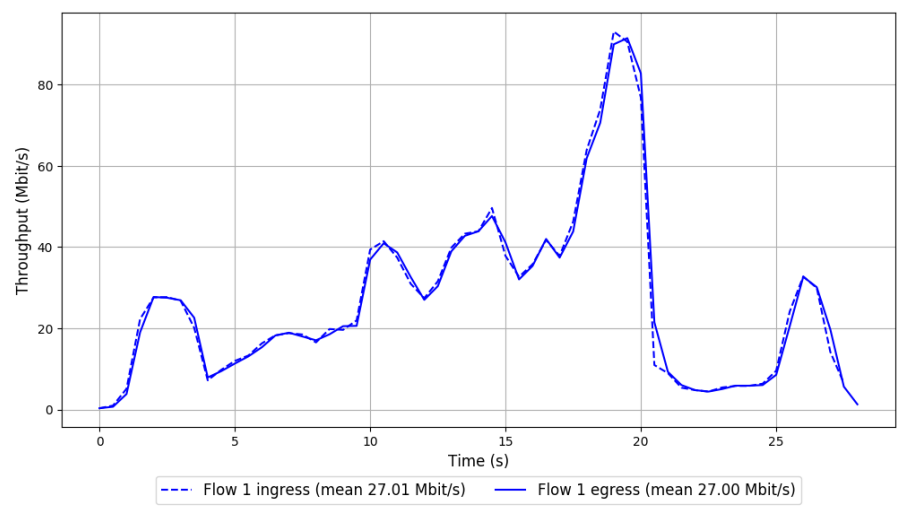
-- Flow 1:

Average throughput: 27.00 Mbit/s

95th percentile per-packet one-way delay: 112.532 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



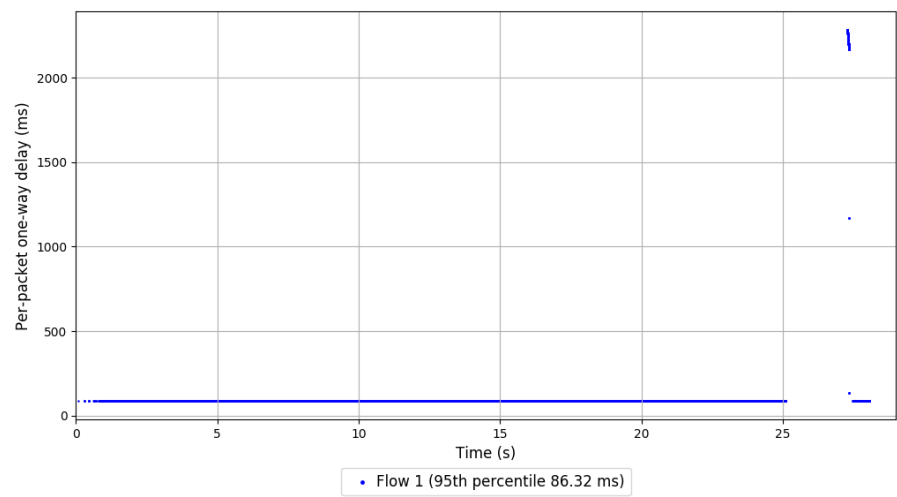
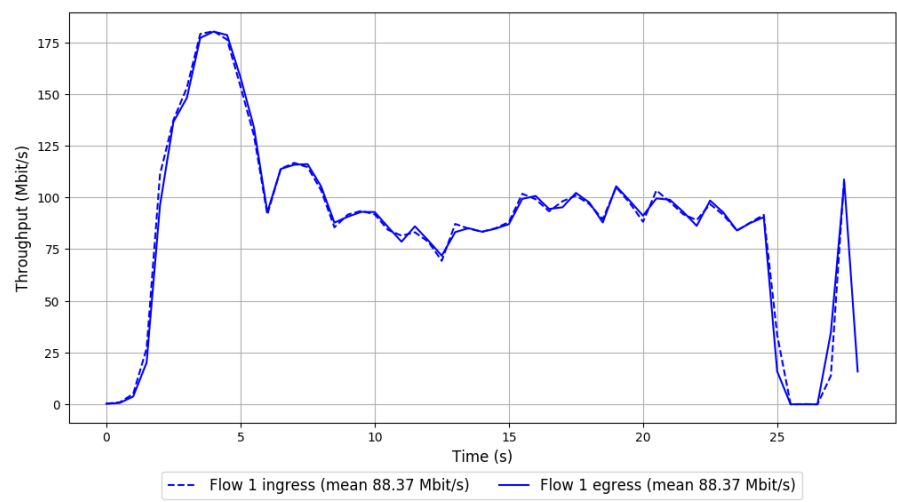
Run 7: Statistics of Copa

Start at: 2017-12-11 15:47:39  
End at: 2017-12-11 15:48:09  
Local clock offset: -0.471 ms  
Remote clock offset: -0.632 ms

# Below is generated by plot.py at 2017-12-11 17:56:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 88.37 Mbit/s  
95th percentile per-packet one-way delay: 86.320 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 88.37 Mbit/s  
95th percentile per-packet one-way delay: 86.320 ms  
Loss rate: 0.00%



Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-12-11 16:05:54

End at: 2017-12-11 16:06:24

Local clock offset: -0.466 ms

Remote clock offset: 1.545 ms

# Below is generated by plot.py at 2017-12-11 17:56:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.16 Mbit/s

95th percentile per-packet one-way delay: 86.674 ms

Loss rate: 0.00%

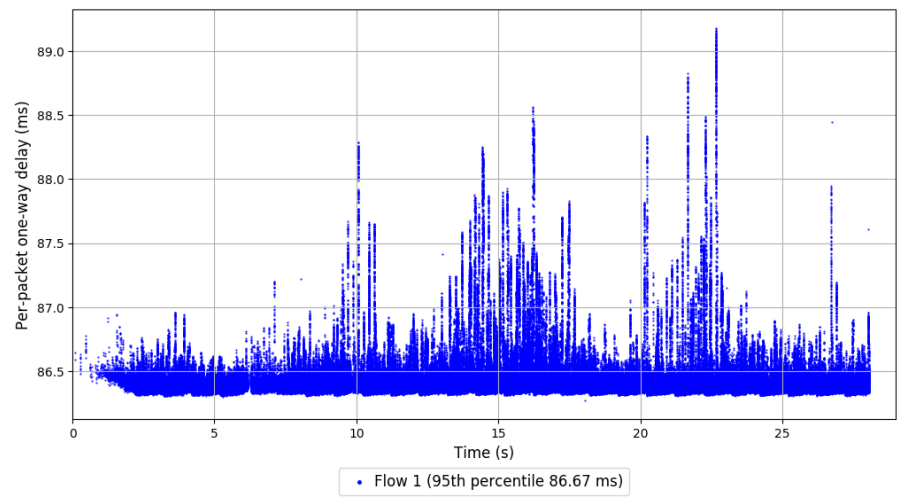
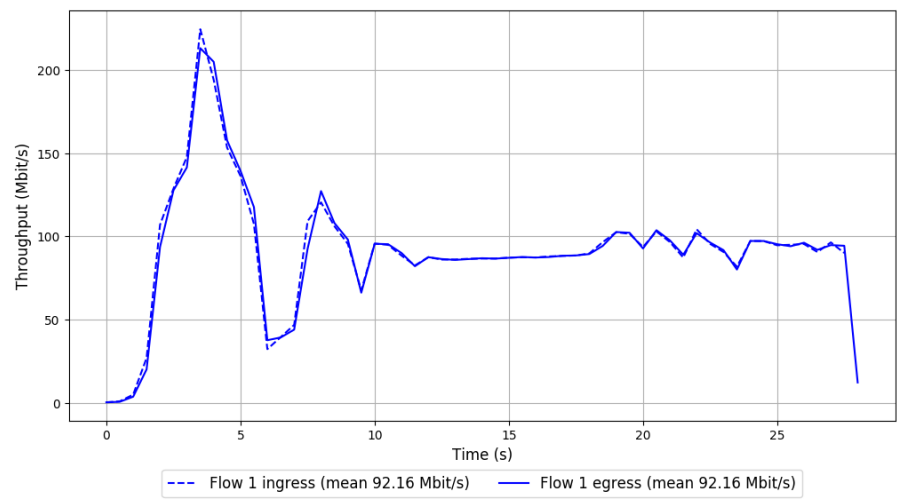
-- Flow 1:

Average throughput: 92.16 Mbit/s

95th percentile per-packet one-way delay: 86.674 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-12-11 16:24:03

End at: 2017-12-11 16:24:33

Local clock offset: -0.418 ms

Remote clock offset: 0.759 ms

# Below is generated by plot.py at 2017-12-11 17:57:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.10 Mbit/s

95th percentile per-packet one-way delay: 85.767 ms

Loss rate: 0.00%

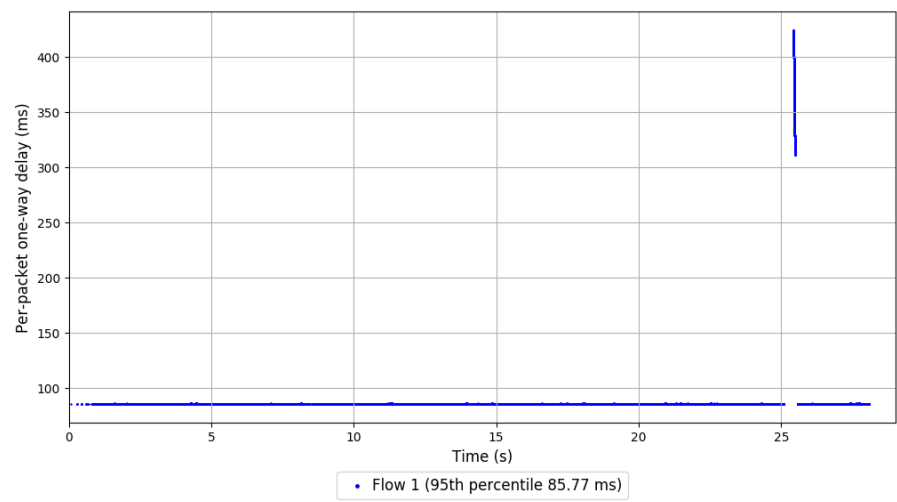
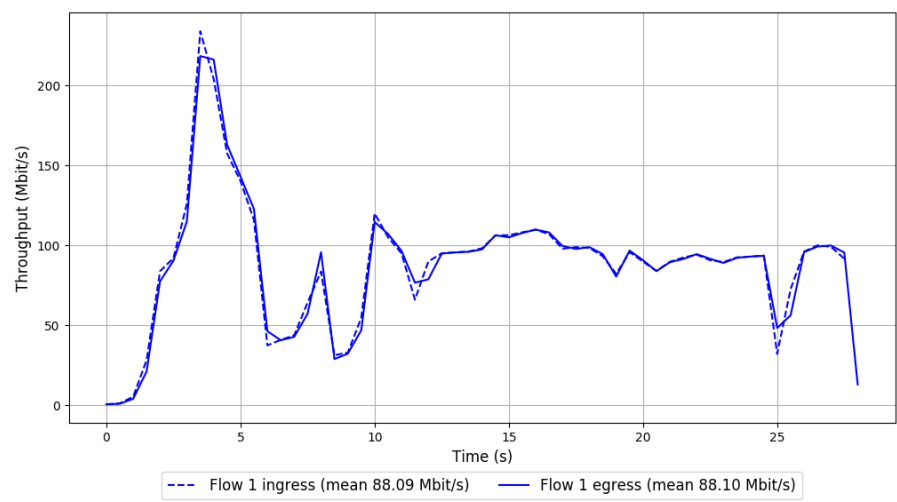
-- Flow 1:

Average throughput: 88.10 Mbit/s

95th percentile per-packet one-way delay: 85.767 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-12-11 16:42:02

End at: 2017-12-11 16:42:32

Local clock offset: -0.439 ms

Remote clock offset: -3.82 ms

# Below is generated by plot.py at 2017-12-11 17:57:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.49 Mbit/s

95th percentile per-packet one-way delay: 80.711 ms

Loss rate: 0.00%

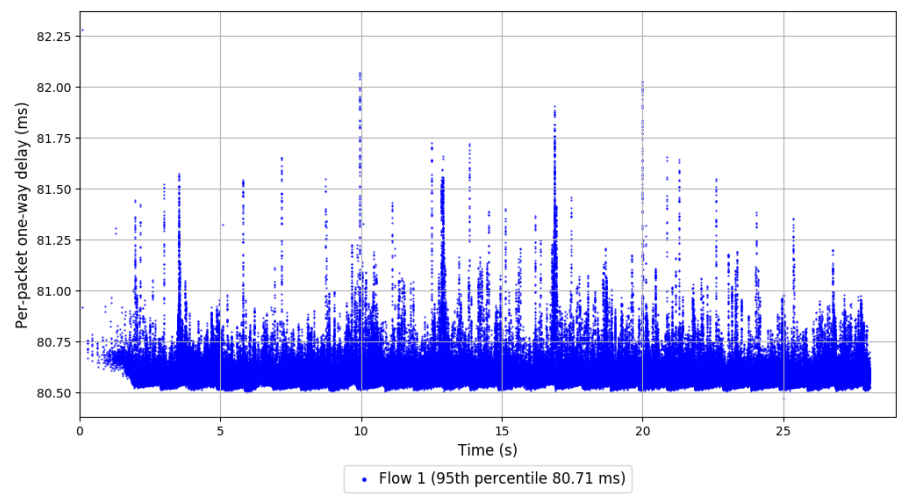
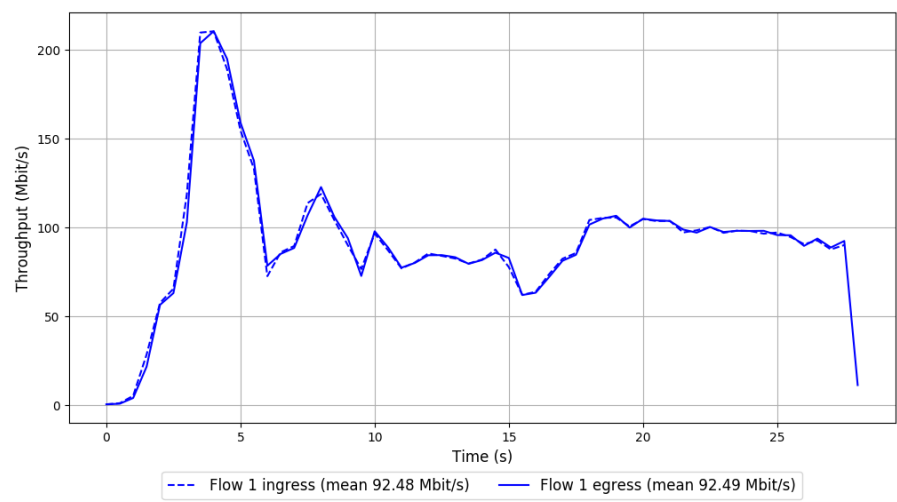
-- Flow 1:

Average throughput: 92.49 Mbit/s

95th percentile per-packet one-way delay: 80.711 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link



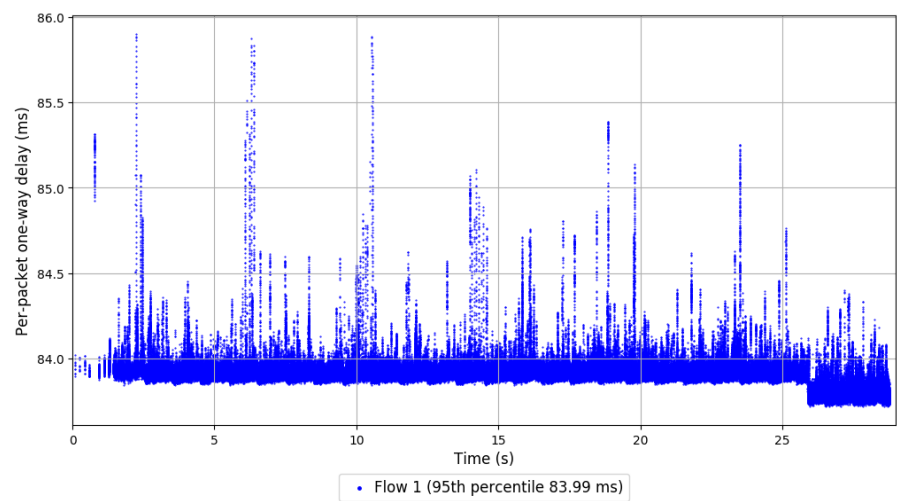
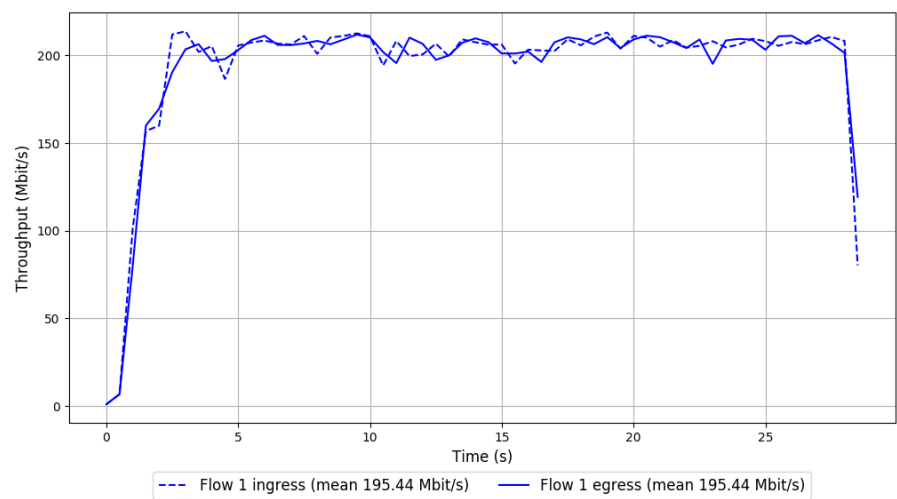
```
Run 1: Statistics of Indigo

Start at: 2017-12-11 14:06:35
End at: 2017-12-11 14:07:05
Local clock offset: -0.402 ms
Remote clock offset: -4.44 ms

# Below is generated by plot.py at 2017-12-11 17:58:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 195.44 Mbit/s
95th percentile per-packet one-way delay: 83.987 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 195.44 Mbit/s
95th percentile per-packet one-way delay: 83.987 ms
Loss rate: 0.00%
```



Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-12-11 14:24:44

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

Local clock offset: -0.394 ms

Remote clock offset: 0.463 ms

# Below is generated by plot.py at 2017-12-11 17:58:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 190.27 Mbit/s

95th percentile per-packet one-way delay: 86.805 ms

Loss rate: 0.00%

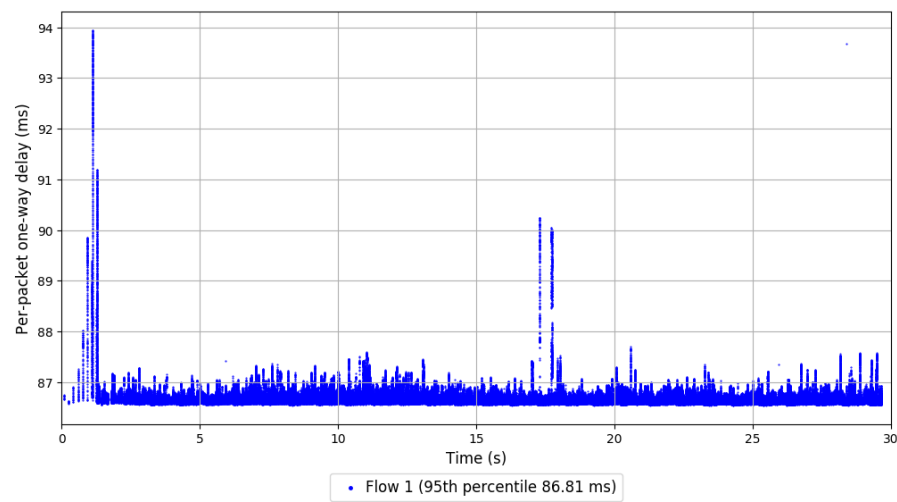
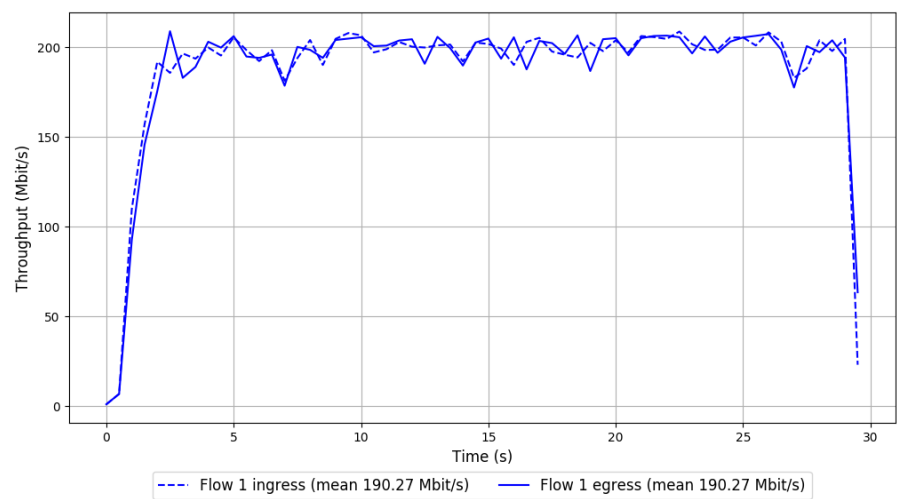
-- Flow 1:

Average throughput: 190.27 Mbit/s

95th percentile per-packet one-way delay: 86.805 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-12-11 14:42:30

End at: 2017-12-11 14:43:00

Local clock offset: -0.447 ms

Remote clock offset: 1.219 ms

# Below is generated by plot.py at 2017-12-11 17:58:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 192.00 Mbit/s

95th percentile per-packet one-way delay: 88.754 ms

Loss rate: 0.00%

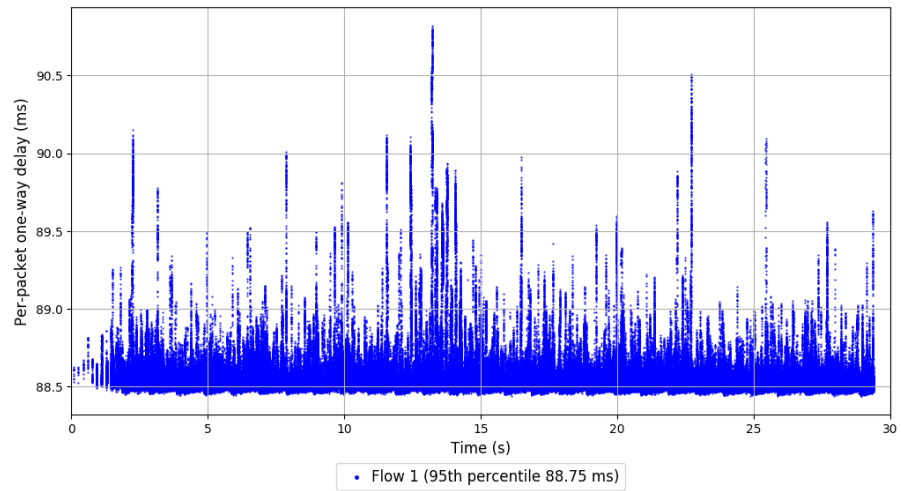
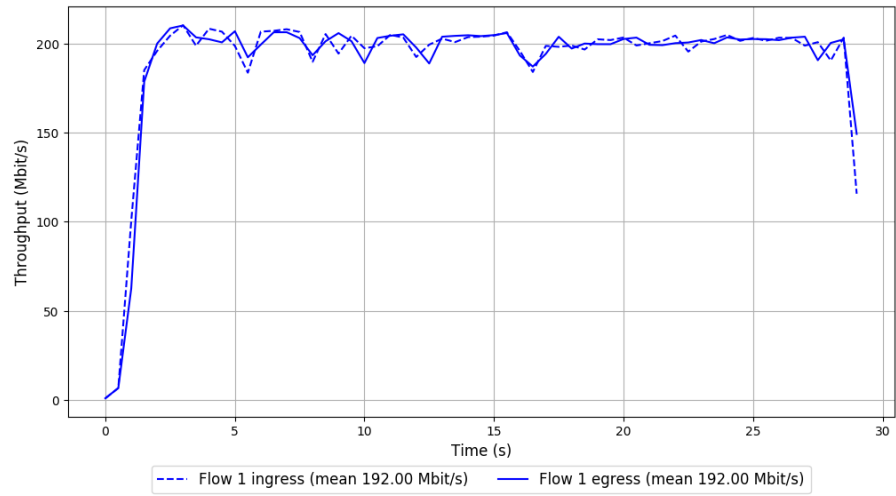
-- Flow 1:

Average throughput: 192.00 Mbit/s

95th percentile per-packet one-way delay: 88.754 ms

Loss rate: 0.00%

### Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-12-11 15:00:16

End at: 2017-12-11 15:00:47

Local clock offset: -0.429 ms

Remote clock offset: 0.717 ms

# Below is generated by plot.py at 2017-12-11 17:58:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 192.66 Mbit/s

95th percentile per-packet one-way delay: 90.879 ms

Loss rate: 0.00%

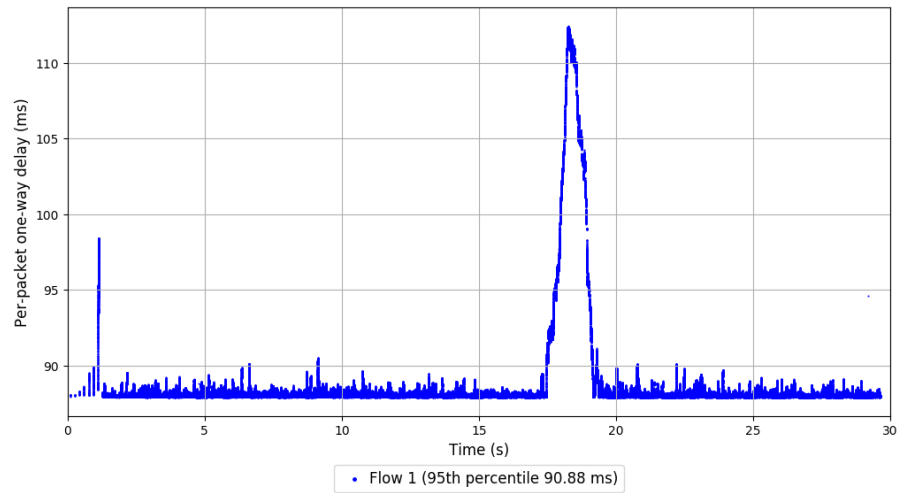
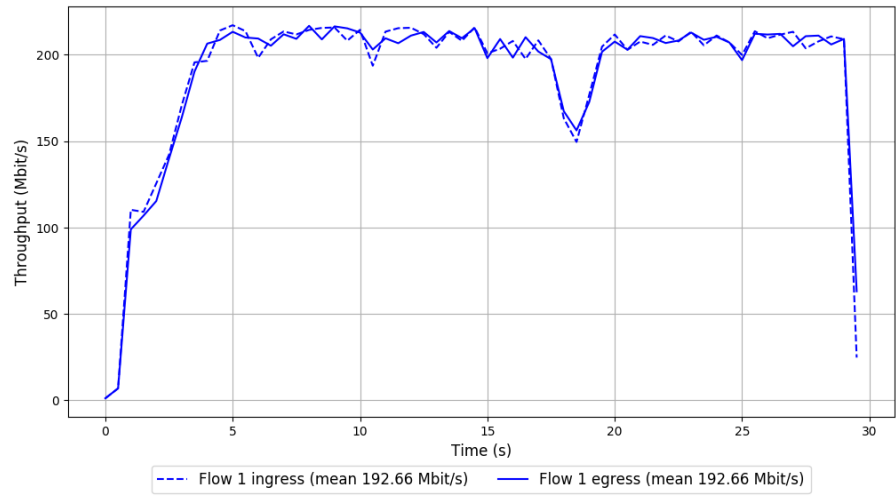
-- Flow 1:

Average throughput: 192.66 Mbit/s

95th percentile per-packet one-way delay: 90.879 ms

Loss rate: 0.00%

#### Run 4: Report of Indigo — Data Link



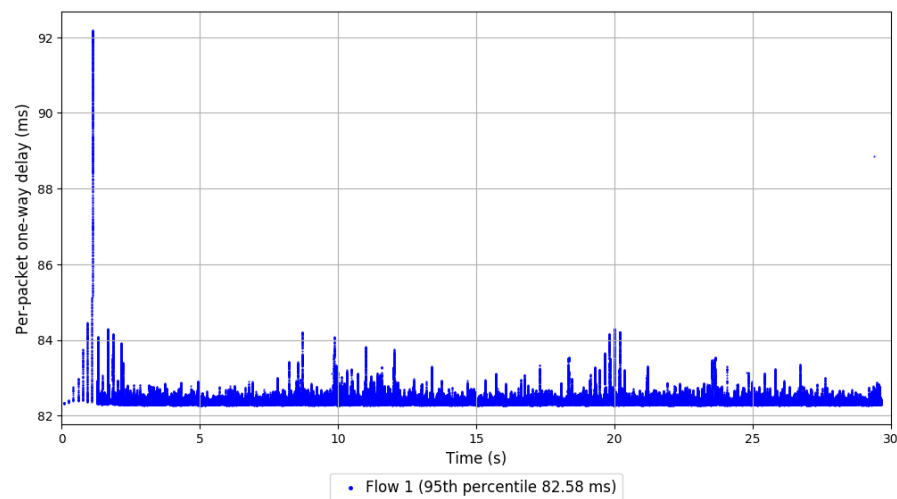
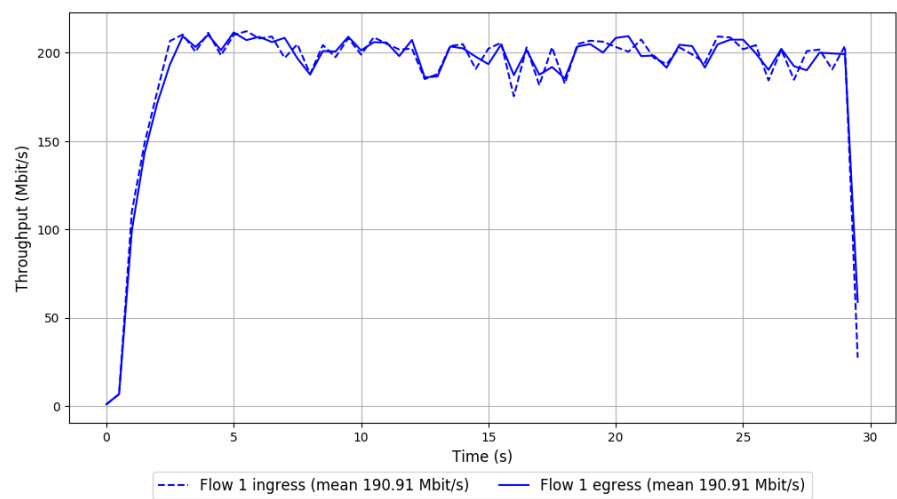
Run 5: Statistics of Indigo

Start at: 2017-12-11 15:18:23  
End at: 2017-12-11 15:18:53  
Local clock offset: -0.459 ms  
Remote clock offset: -4.724 ms

# Below is generated by plot.py at 2017-12-11 17:59:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 190.91 Mbit/s  
95th percentile per-packet one-way delay: 82.584 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 190.91 Mbit/s  
95th percentile per-packet one-way delay: 82.584 ms  
Loss rate: 0.00%



Run 5: Report of Indigo — Data Link

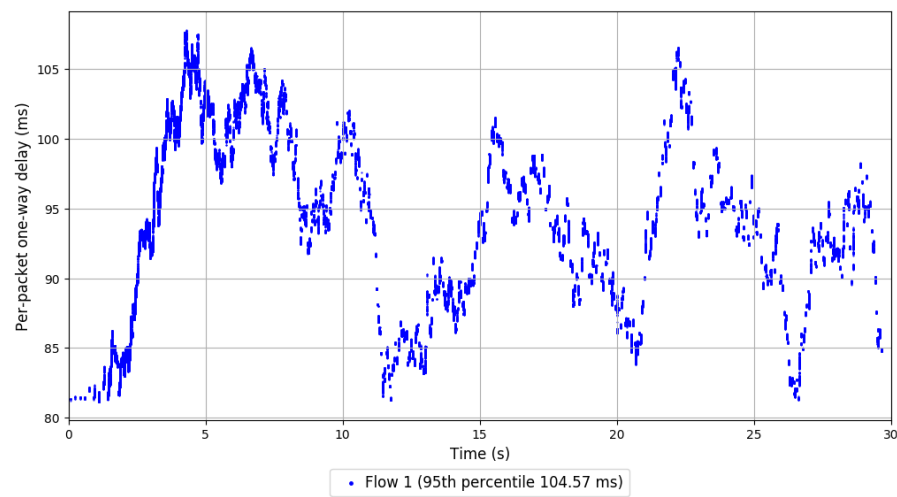
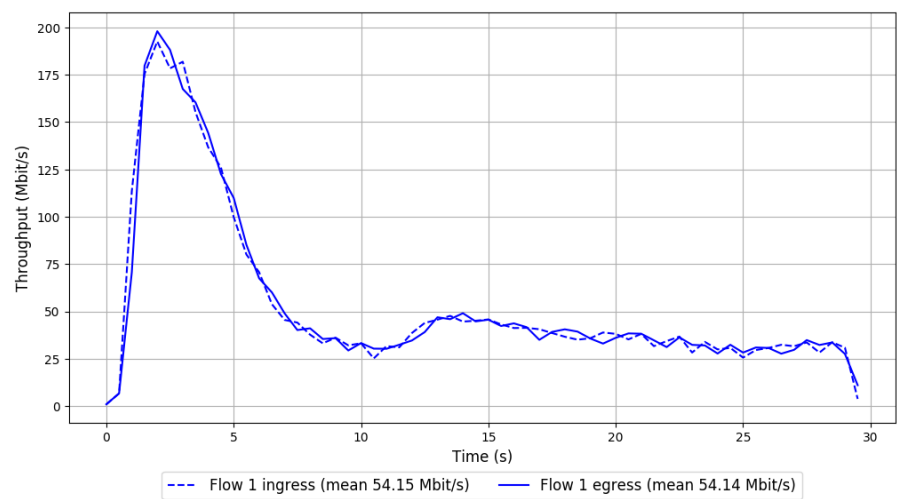


Run 6: Statistics of Indigo

Start at: 2017-12-11 15:36:01  
End at: 2017-12-11 15:36:31  
Local clock offset: -0.489 ms  
Remote clock offset: -3.973 ms

# Below is generated by plot.py at 2017-12-11 17:59:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 54.14 Mbit/s  
95th percentile per-packet one-way delay: 104.566 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 54.14 Mbit/s  
95th percentile per-packet one-way delay: 104.566 ms  
Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-12-11 15:53:50

End at: 2017-12-11 15:54:20

Local clock offset: -0.488 ms

Remote clock offset: 1.432 ms

# Below is generated by plot.py at 2017-12-11 17:59:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 189.19 Mbit/s

95th percentile per-packet one-way delay: 88.131 ms

Loss rate: 0.00%

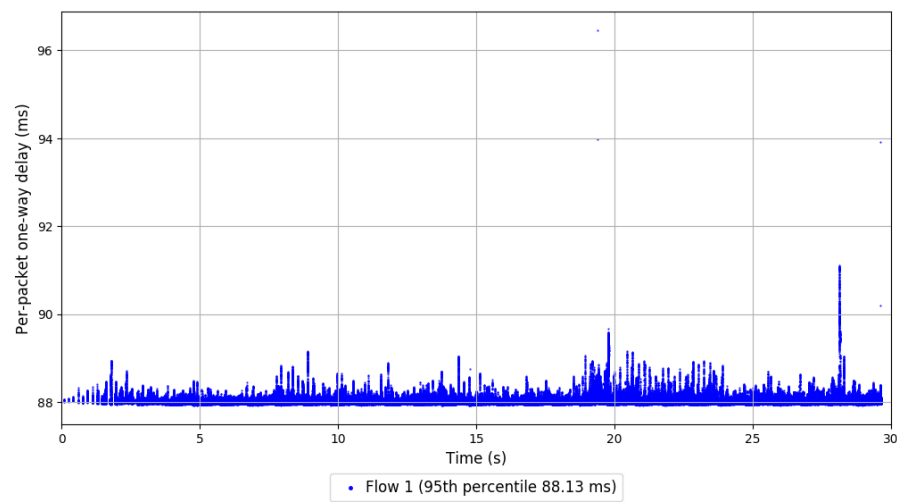
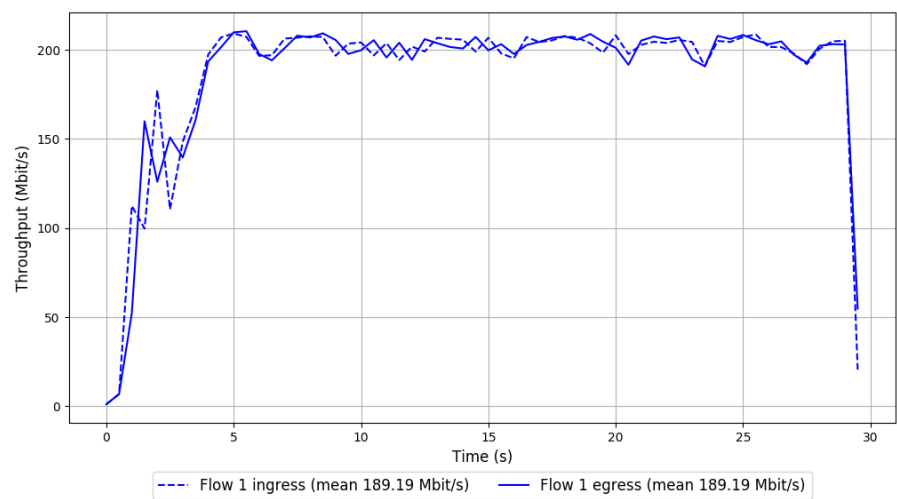
-- Flow 1:

Average throughput: 189.19 Mbit/s

95th percentile per-packet one-way delay: 88.131 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

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

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

Local clock offset: -0.453 ms

Remote clock offset: 2.34 ms

# Below is generated by plot.py at 2017-12-11 17:59:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 191.80 Mbit/s

95th percentile per-packet one-way delay: 87.765 ms

Loss rate: 0.00%

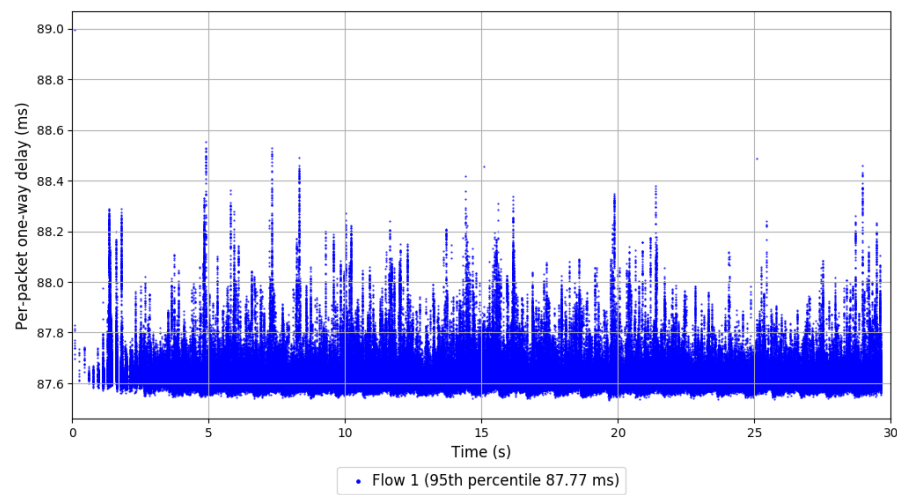
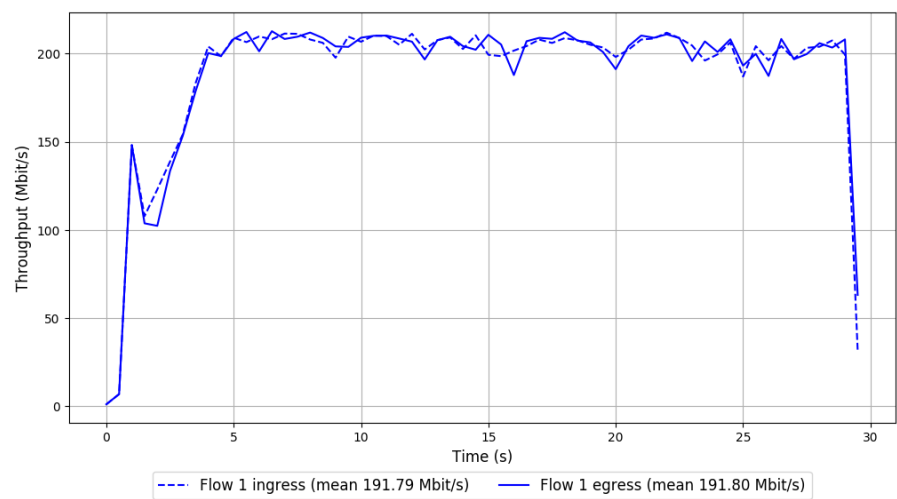
-- Flow 1:

Average throughput: 191.80 Mbit/s

95th percentile per-packet one-way delay: 87.765 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



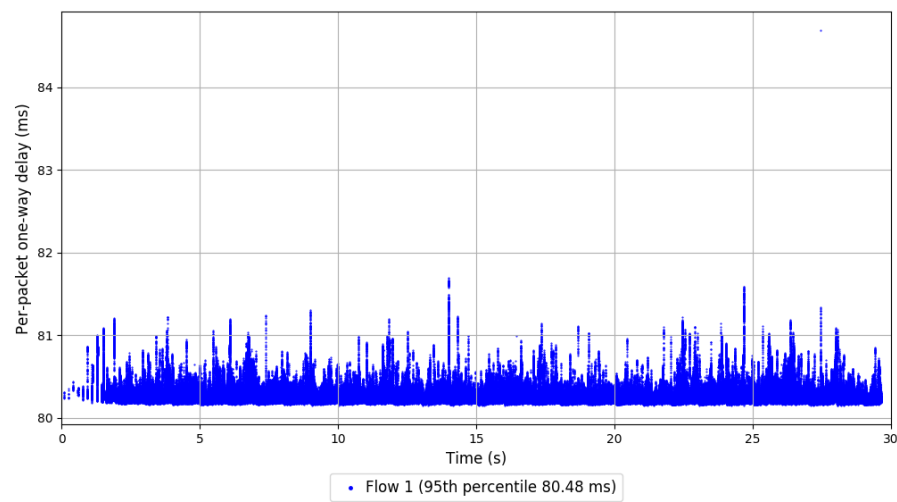
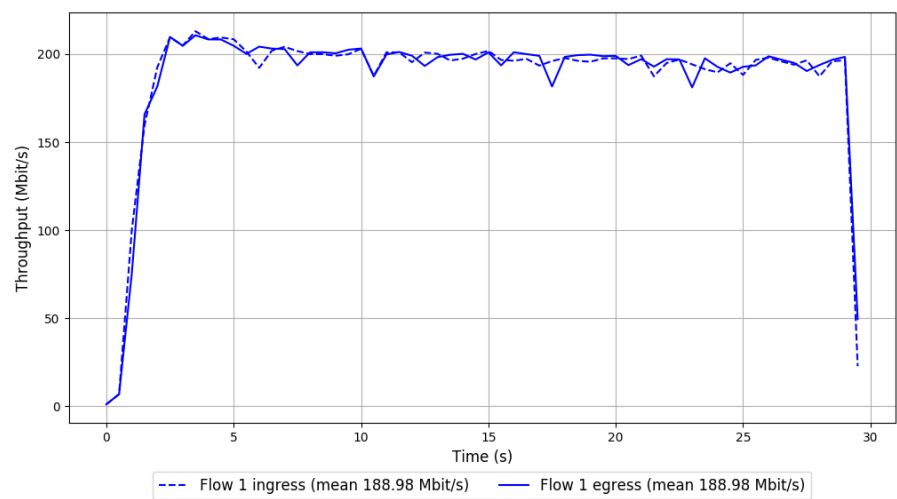
Run 9: Statistics of Indigo

Start at: 2017-12-11 16:30:14  
End at: 2017-12-11 16:30:44  
Local clock offset: -0.404 ms  
Remote clock offset: -4.846 ms

# Below is generated by plot.py at 2017-12-11 18:00:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 188.98 Mbit/s  
95th percentile per-packet one-way delay: 80.476 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 188.98 Mbit/s  
95th percentile per-packet one-way delay: 80.476 ms  
Loss rate: 0.00%



Run 9: Report of Indigo — Data Link

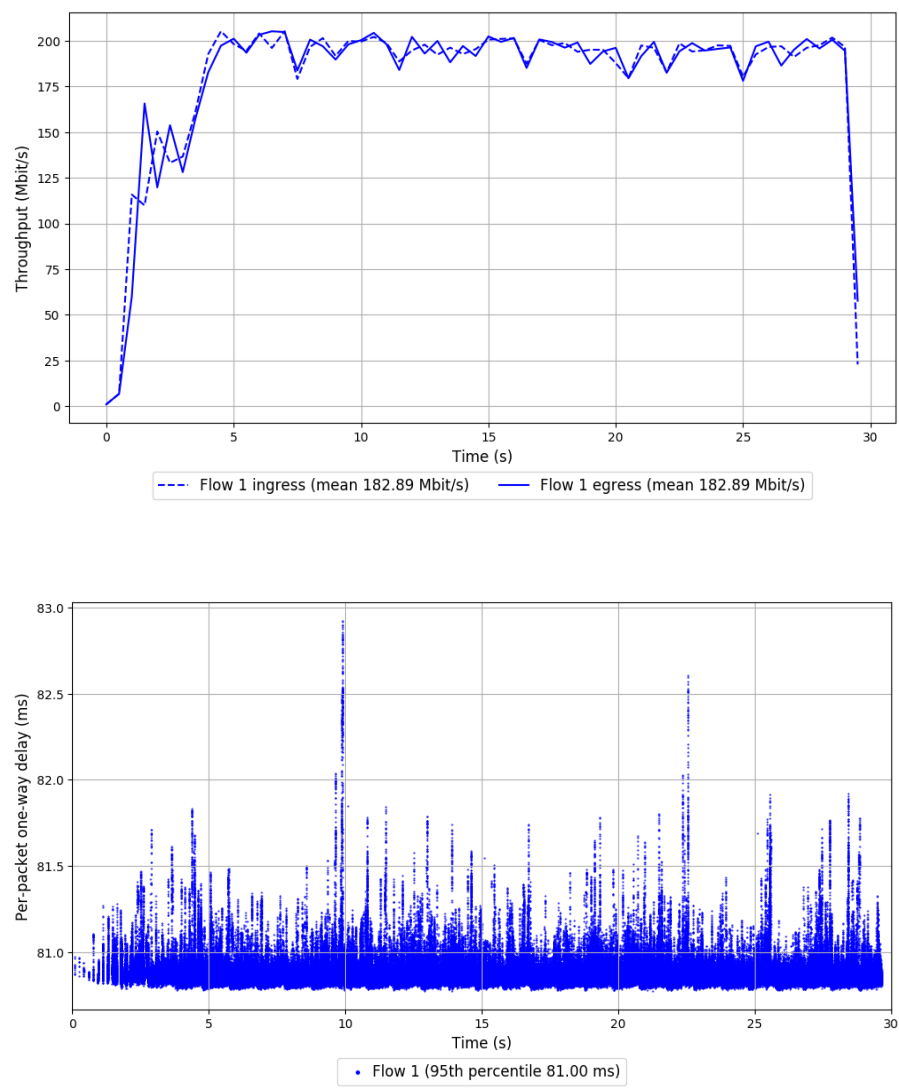


Run 10: Statistics of Indigo

Start at: 2017-12-11 16:48:13  
End at: 2017-12-11 16:48:43  
Local clock offset: -0.373 ms  
Remote clock offset: -5.595 ms

# Below is generated by plot.py at 2017-12-11 18:00:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 182.89 Mbit/s  
95th percentile per-packet one-way delay: 81.004 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 182.89 Mbit/s  
95th percentile per-packet one-way delay: 81.004 ms  
Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

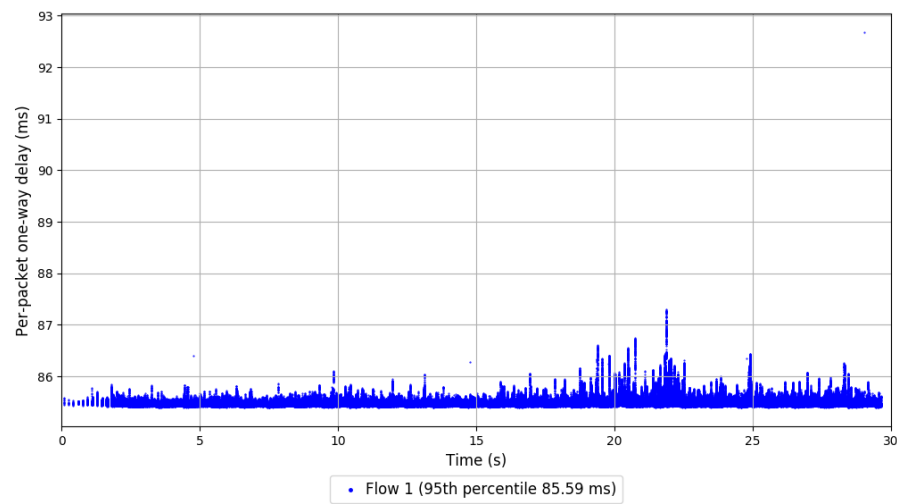
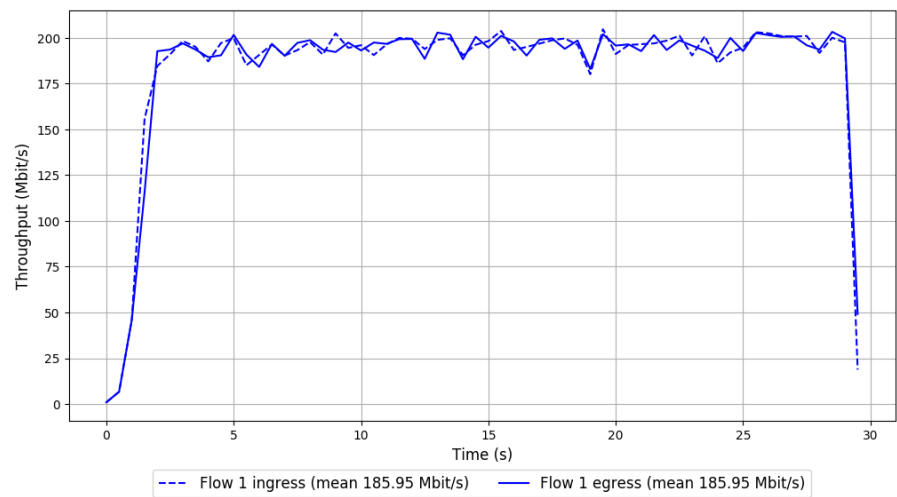


```
Run 1: Statistics of Indigo-calib

Start at: 2017-12-11 13:59:00
End at: 2017-12-11 13:59:31
Local clock offset: -0.401 ms
Remote clock offset: -1.005 ms

# Below is generated by plot.py at 2017-12-11 18:01:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 185.95 Mbit/s
95th percentile per-packet one-way delay: 85.587 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 185.95 Mbit/s
95th percentile per-packet one-way delay: 85.587 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-calib — Data Link



Run 2: Statistics of Indigo-calib

Start at: 2017-12-11 14:17:08

End at: 2017-12-11 14:17:38

Local clock offset: -0.464 ms

Remote clock offset: 1.122 ms

# Below is generated by plot.py at 2017-12-11 18:01:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 187.45 Mbit/s

95th percentile per-packet one-way delay: 90.848 ms

Loss rate: 0.02%

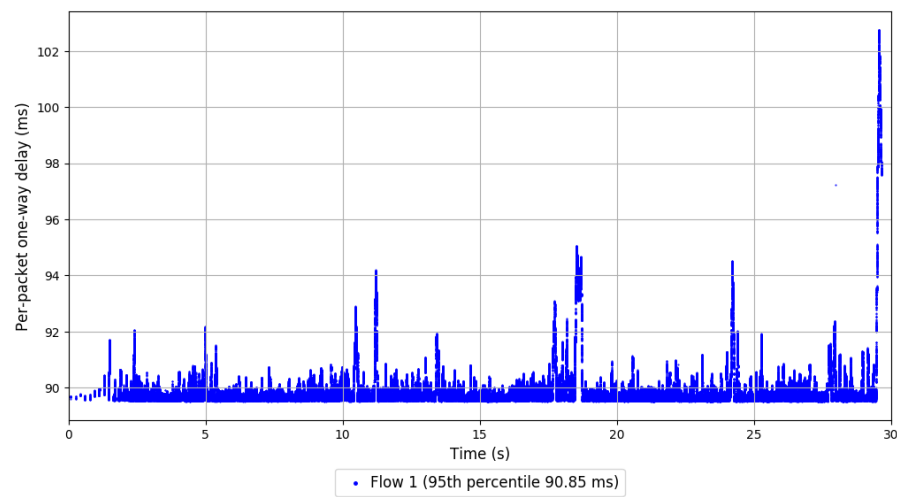
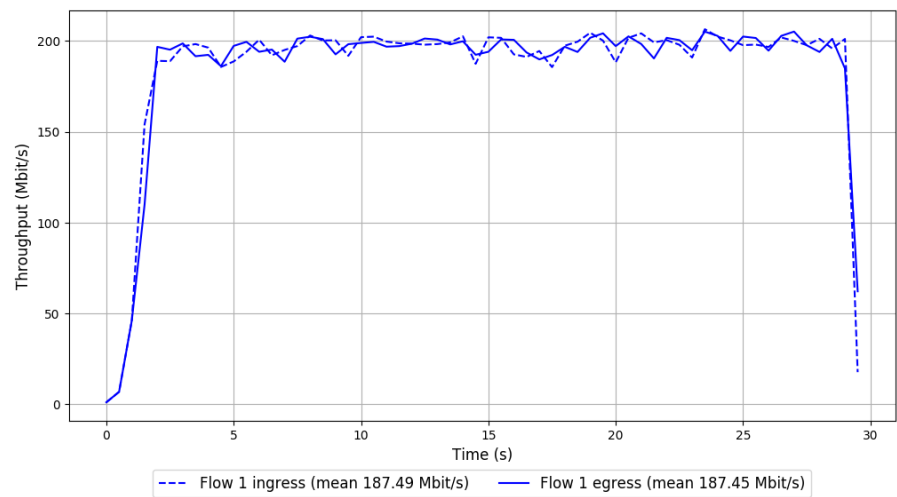
-- Flow 1:

Average throughput: 187.45 Mbit/s

95th percentile per-packet one-way delay: 90.848 ms

Loss rate: 0.02%

Run 2: Report of Indigo-calib — Data Link



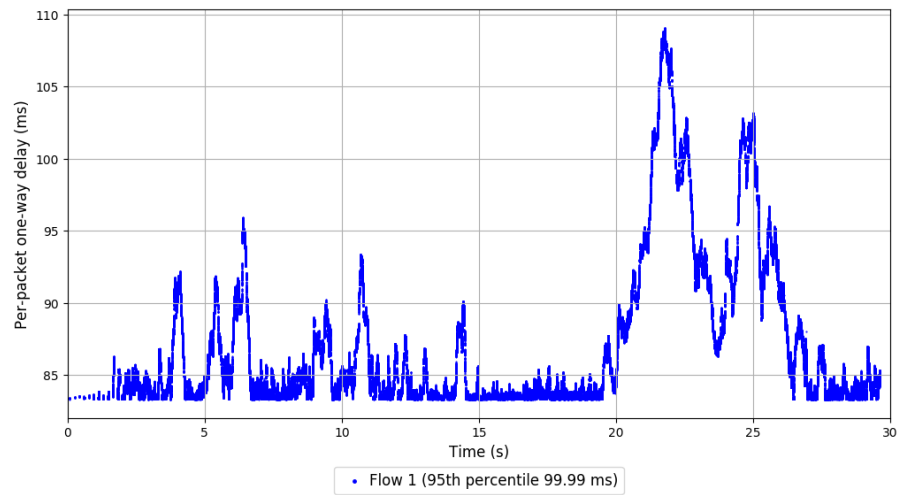
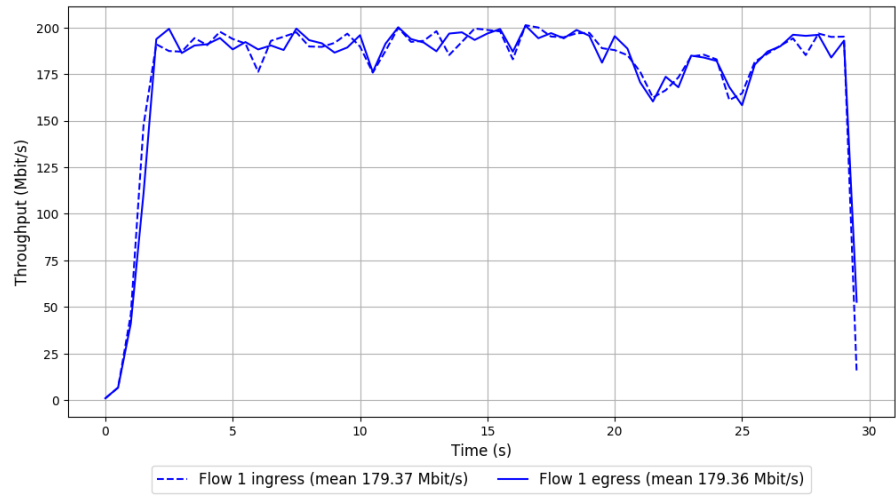
Run 3: Statistics of Indigo-calib

Start at: 2017-12-11 14:35:01  
End at: 2017-12-11 14:35:31  
Local clock offset: -0.426 ms  
Remote clock offset: -4.238 ms

# Below is generated by plot.py at 2017-12-11 18:01:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 179.36 Mbit/s  
95th percentile per-packet one-way delay: 99.988 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 179.36 Mbit/s  
95th percentile per-packet one-way delay: 99.988 ms  
Loss rate: 0.00%



### Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-12-11 14:52:49

End at: 2017-12-11 14:53:19

Local clock offset: -0.426 ms

Remote clock offset: 0.712 ms

# Below is generated by plot.py at 2017-12-11 18:02:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 186.34 Mbit/s

95th percentile per-packet one-way delay: 87.570 ms

Loss rate: 0.00%

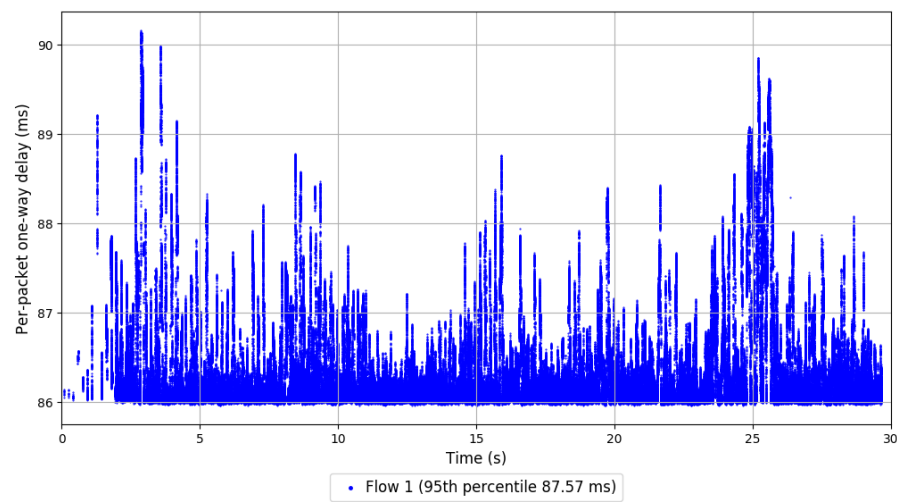
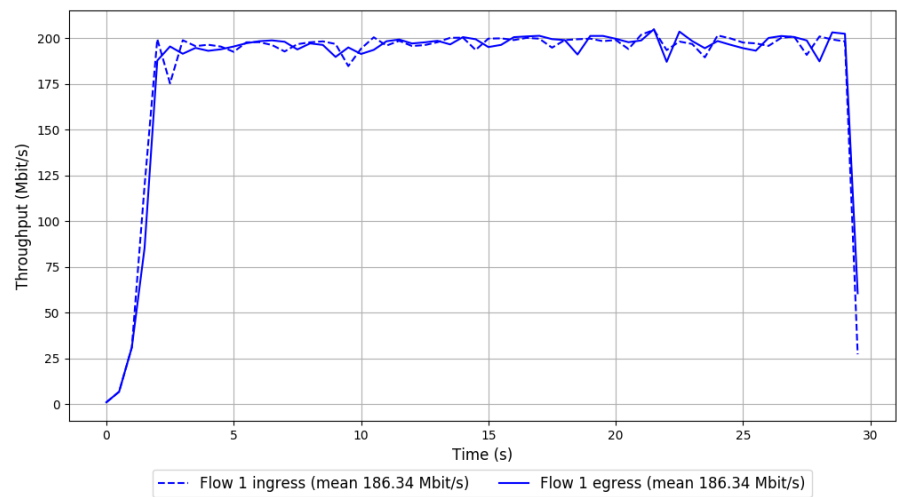
-- Flow 1:

Average throughput: 186.34 Mbit/s

95th percentile per-packet one-way delay: 87.570 ms

Loss rate: 0.00%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-12-11 15:10:54

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

Local clock offset: -0.543 ms

Remote clock offset: -4.809 ms

# Below is generated by plot.py at 2017-12-11 18:02:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 188.62 Mbit/s

95th percentile per-packet one-way delay: 81.031 ms

Loss rate: 0.00%

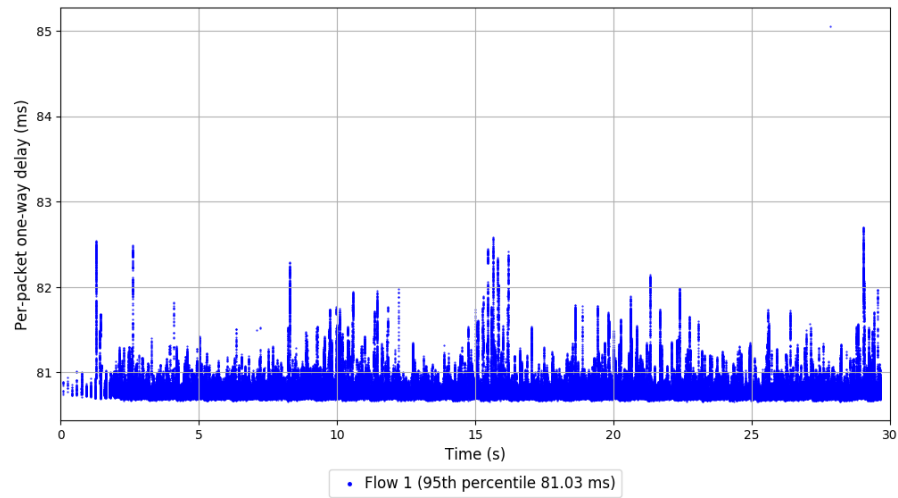
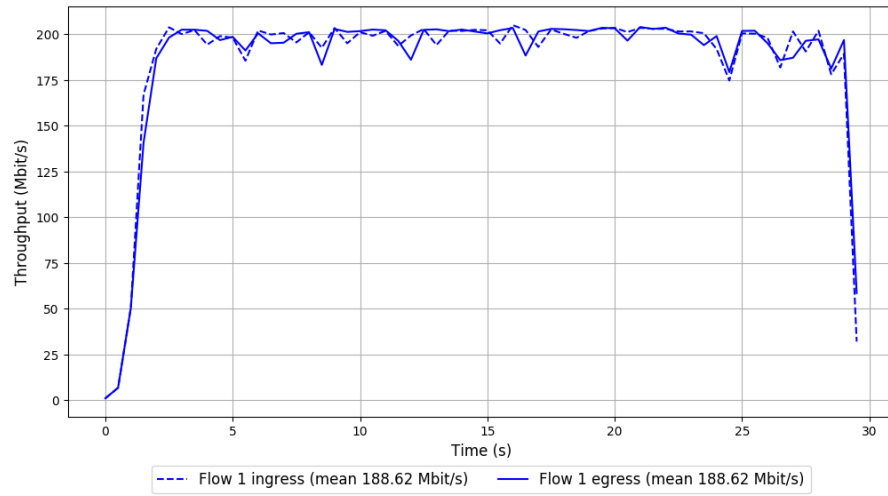
-- Flow 1:

Average throughput: 188.62 Mbit/s

95th percentile per-packet one-way delay: 81.031 ms

Loss rate: 0.00%

## Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-12-11 15:28:36

End at: 2017-12-11 15:29:06

Local clock offset: -0.482 ms

Remote clock offset: 1.803 ms

# Below is generated by plot.py at 2017-12-11 18:02:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 189.45 Mbit/s

95th percentile per-packet one-way delay: 88.876 ms

Loss rate: 0.00%

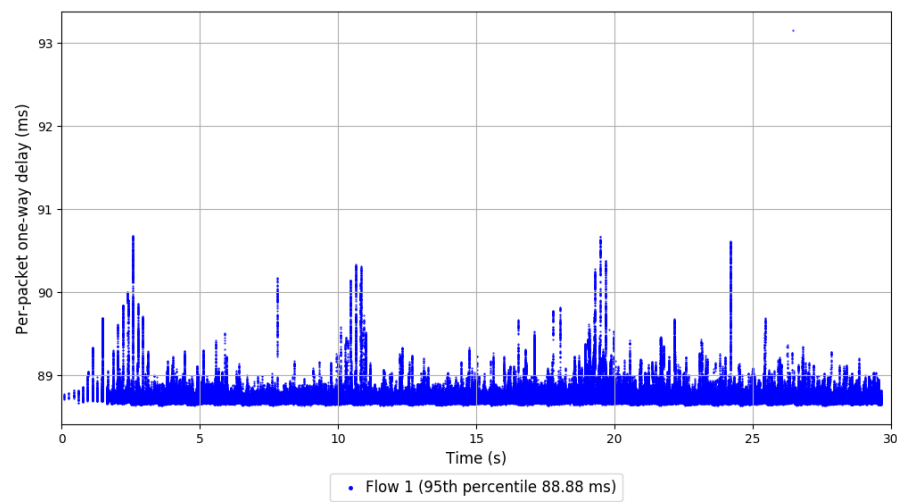
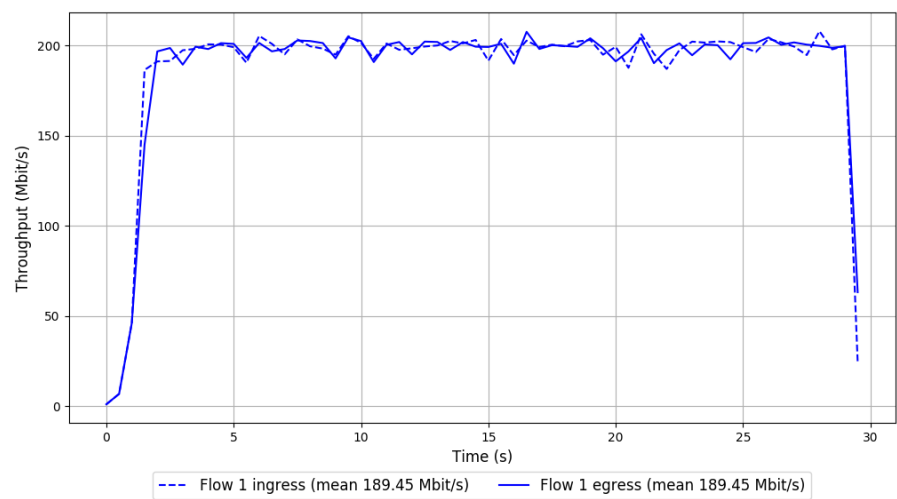
-- Flow 1:

Average throughput: 189.45 Mbit/s

95th percentile per-packet one-way delay: 88.876 ms

Loss rate: 0.00%

Run 6: Report of Indigo-calib — Data Link



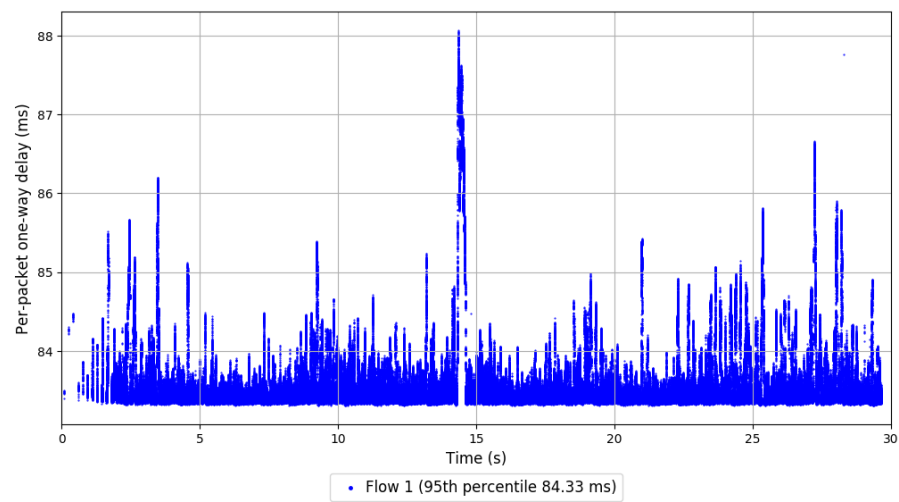
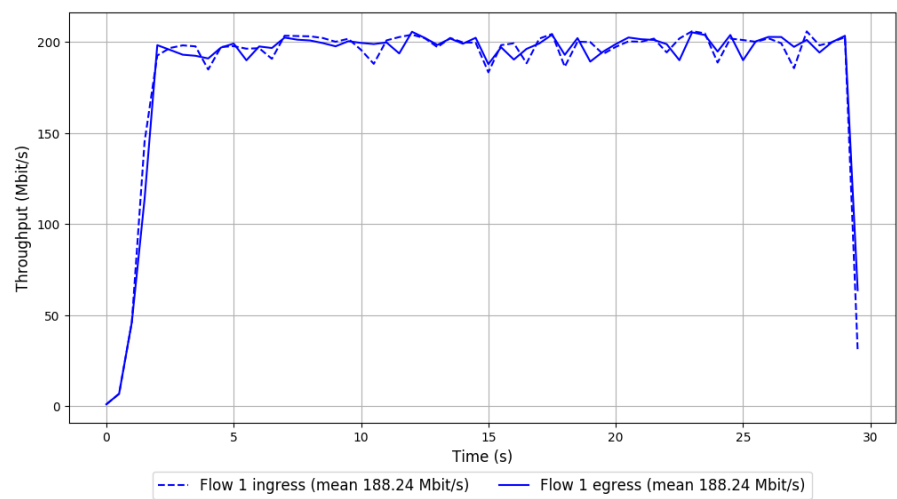
Run 7: Statistics of Indigo-calib

Start at: 2017-12-11 15:46:17  
End at: 2017-12-11 15:46:47  
Local clock offset: -0.457 ms  
Remote clock offset: -3.411 ms

# Below is generated by plot.py at 2017-12-11 18:02:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 188.24 Mbit/s  
95th percentile per-packet one-way delay: 84.326 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 188.24 Mbit/s  
95th percentile per-packet one-way delay: 84.326 ms  
Loss rate: 0.00%



Run 7: Report of Indigo-calib — Data Link

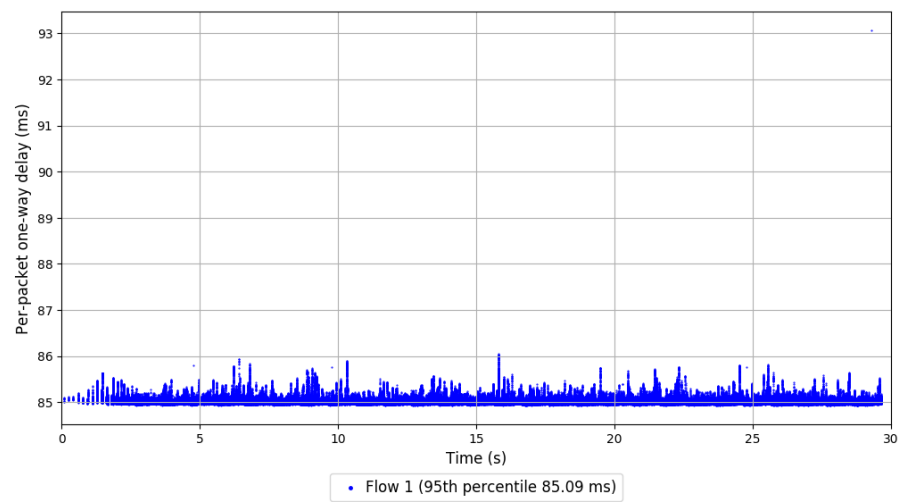
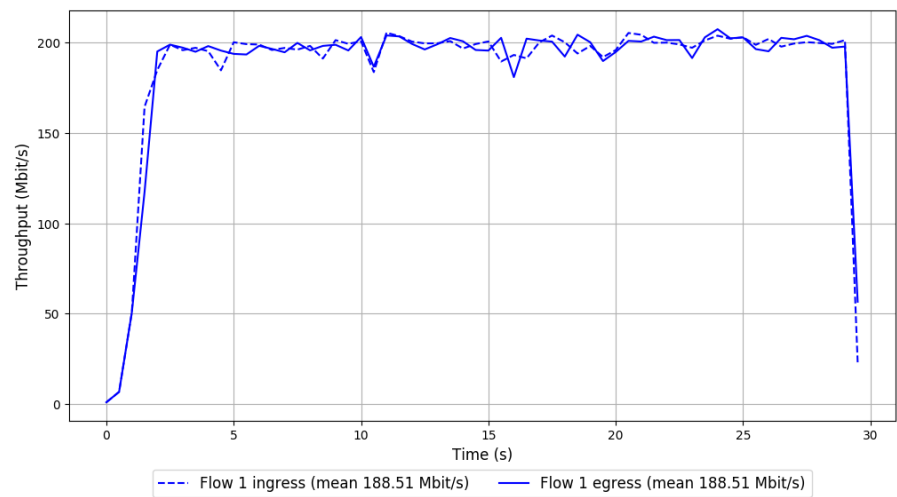


Run 8: Statistics of Indigo-calib

Start at: 2017-12-11 16:04:31  
End at: 2017-12-11 16:05:01  
Local clock offset: -0.501 ms  
Remote clock offset: -1.844 ms

# Below is generated by plot.py at 2017-12-11 18:02:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 188.51 Mbit/s  
95th percentile per-packet one-way delay: 85.093 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 188.51 Mbit/s  
95th percentile per-packet one-way delay: 85.093 ms  
Loss rate: 0.00%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-12-11 16:22:41

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

Local clock offset: -0.396 ms

Remote clock offset: 1.514 ms

# Below is generated by plot.py at 2017-12-11 18:02:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 187.61 Mbit/s

95th percentile per-packet one-way delay: 86.788 ms

Loss rate: 0.00%

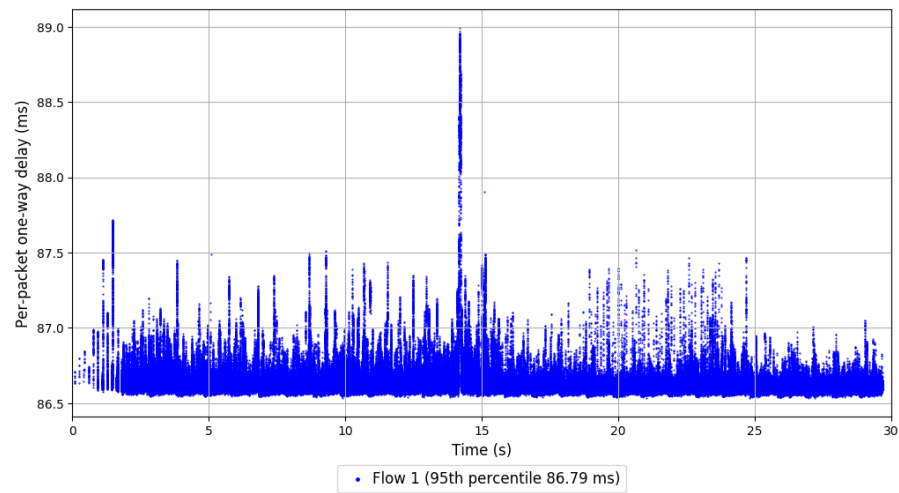
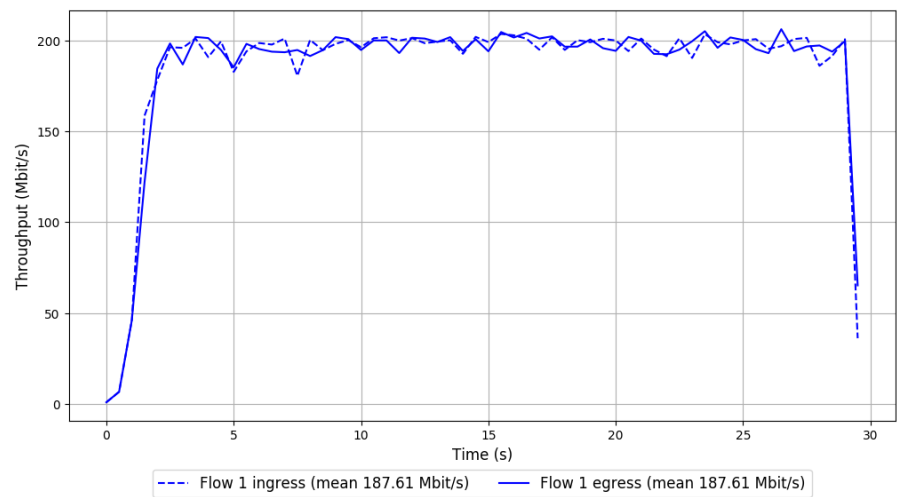
-- Flow 1:

Average throughput: 187.61 Mbit/s

95th percentile per-packet one-way delay: 86.788 ms

Loss rate: 0.00%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-12-11 16:40:40  
End at: 2017-12-11 16:41:10  
Local clock offset: -0.437 ms  
Remote clock offset: -6.157 ms

# Below is generated by plot.py at 2017-12-11 18:02:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 185.92 Mbit/s  
95th percentile per-packet one-way delay: 80.367 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 185.92 Mbit/s  
95th percentile per-packet one-way delay: 80.367 ms  
Loss rate: 0.00%

Run 10: Report of Indigo-calib — Data Link

