

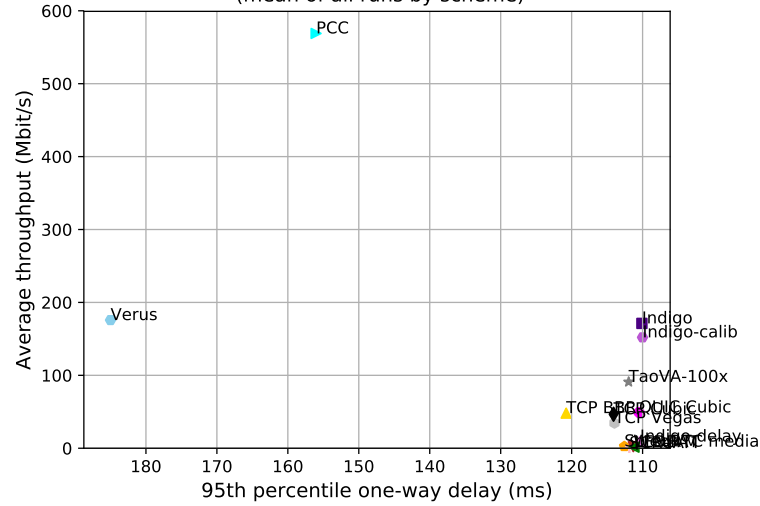
## Pantheon Report

Generated at 2017-09-21 14:04:19 (UTC).  
Data path: GCE London Ethernet (*local*) → GCE Tokyo 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**).

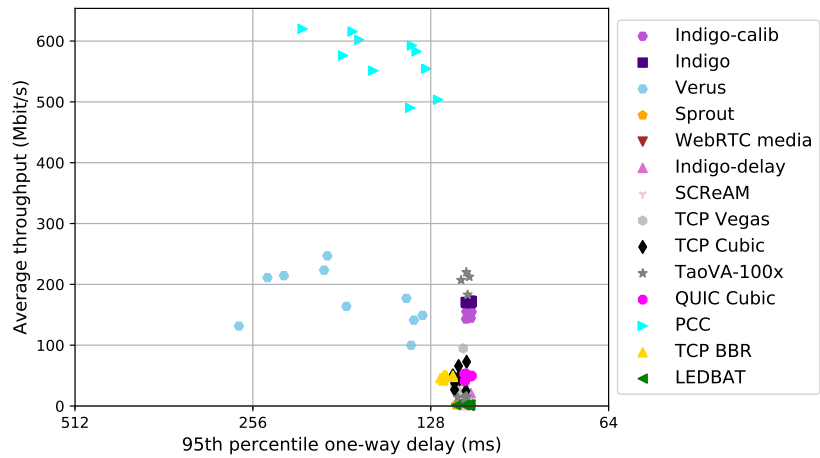
Git summary:

```
branch: indigos @ 46c7c812d4acb71eea4f5fb0b03b3657cea3062f
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
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 GCE London Ethernet to GCE Tokyo Ethernet, 10 runs of 30s each per scheme  
(mean of all runs by scheme)



test from GCE London Ethernet to GCE Tokyo Ethernet, 10 runs of 30s each per scheme



| scheme       | # runs | mean avg tput (Mbit/s)<br>flow 1 | mean 95th-%ile delay (ms)<br>flow 1 | mean loss rate (%)<br>flow 1 |
|--------------|--------|----------------------------------|-------------------------------------|------------------------------|
| TCP BBR      | 10     | 48.16                            | 120.77                              | 0.06                         |
| TCP Cubic    | 10     | 46.61                            | 114.10                              | 0.03                         |
| LEDBAT       | 10     | 1.42                             | 111.22                              | 0.39                         |
| PCC          | 10     | 568.93                           | 156.01                              | 1.16                         |
| QUIC Cubic   | 7      | 49.13                            | 110.50                              | 0.00                         |
| SCReAM       | 10     | 0.22                             | 111.87                              | 0.00                         |
| WebRTC media | 10     | 2.14                             | 111.30                              | 0.00                         |
| Sprout       | 10     | 2.59                             | 112.57                              | 0.84                         |
| TaoVA-100x   | 10     | 90.97                            | 111.97                              | 0.00                         |
| TCP Vegas    | 10     | 34.51                            | 113.97                              | 0.02                         |
| Verus        | 10     | 175.77                           | 184.99                              | 1.09                         |
| Indigo       | 10     | 171.23                           | 110.10                              | 0.00                         |
| Indigo-calib | 8      | 152.07                           | 110.01                              | 0.01                         |
| Indigo-delay | 10     | 9.23                             | 110.37                              | 0.06                         |

Run 1: Statistics of TCP BBR

Start at: 2017-09-21 11:15:18

End at: 2017-09-21 11:15:48

# Below is generated by plot.py at 2017-09-21 13:36:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 45.76 Mbit/s

95th percentile per-packet one-way delay: 123.295 ms

Loss rate: 0.01%

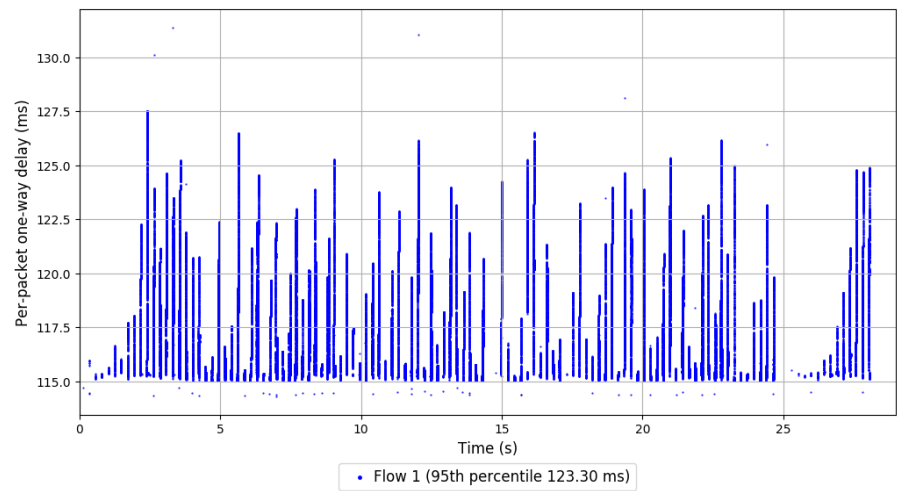
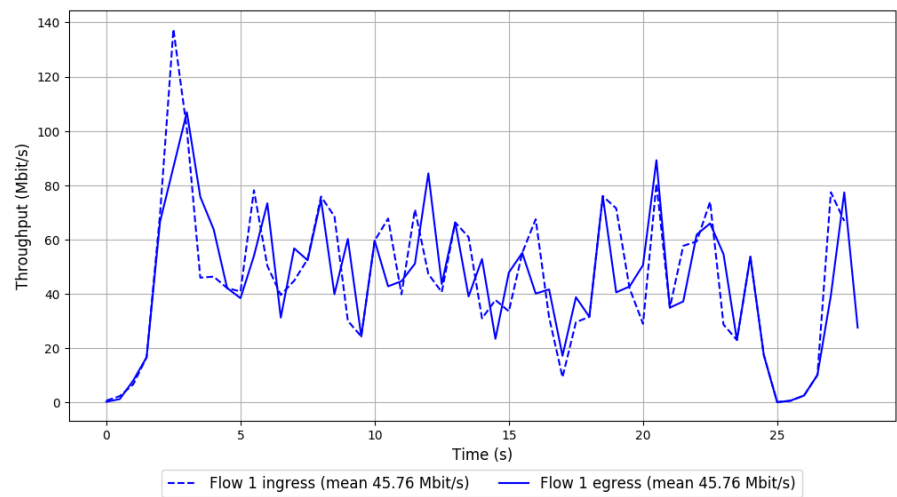
-- Flow 1:

Average throughput: 45.76 Mbit/s

95th percentile per-packet one-way delay: 123.295 ms

Loss rate: 0.01%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-09-21 11:26:24

End at: 2017-09-21 11:26:54

# Below is generated by plot.py at 2017-09-21 13:36:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 49.15 Mbit/s

95th percentile per-packet one-way delay: 121.198 ms

Loss rate: 0.03%

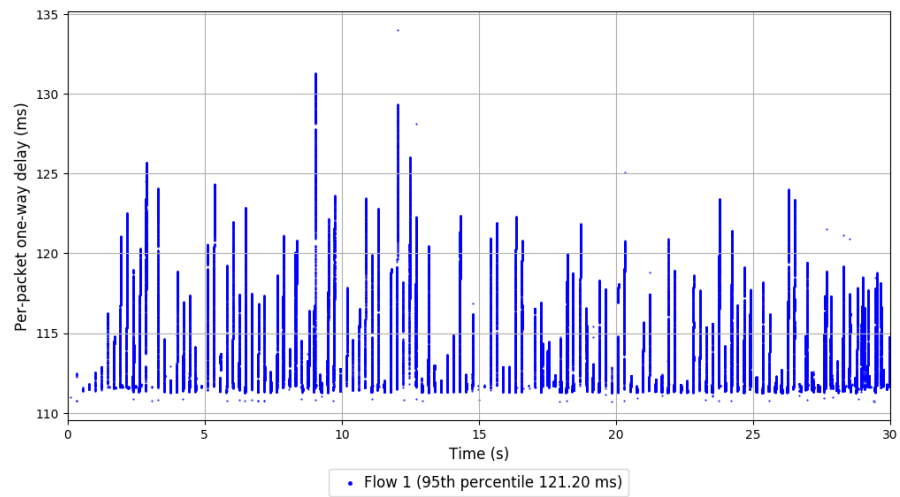
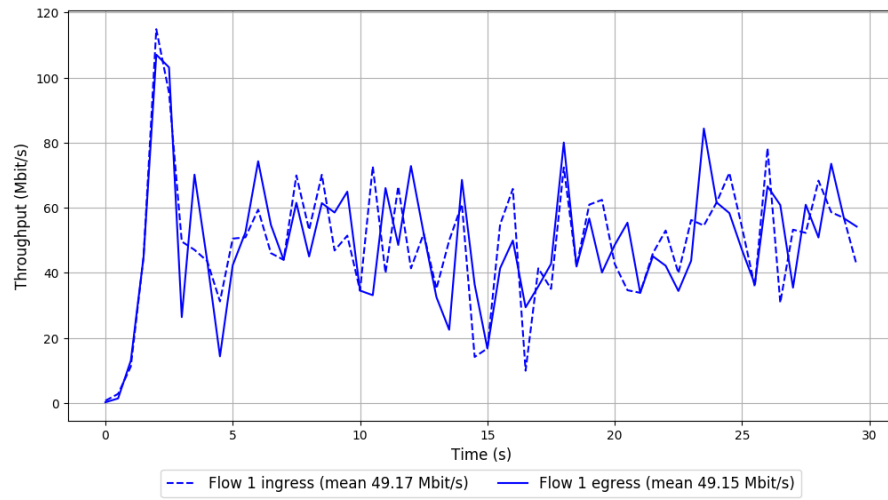
-- Flow 1:

Average throughput: 49.15 Mbit/s

95th percentile per-packet one-way delay: 121.198 ms

Loss rate: 0.03%

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



Run 3: Statistics of TCP BBR

Start at: 2017-09-21 11:37:15

End at: 2017-09-21 11:37:45

# Below is generated by plot.py at 2017-09-21 13:36:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 48.37 Mbit/s

95th percentile per-packet one-way delay: 121.894 ms

Loss rate: 0.04%

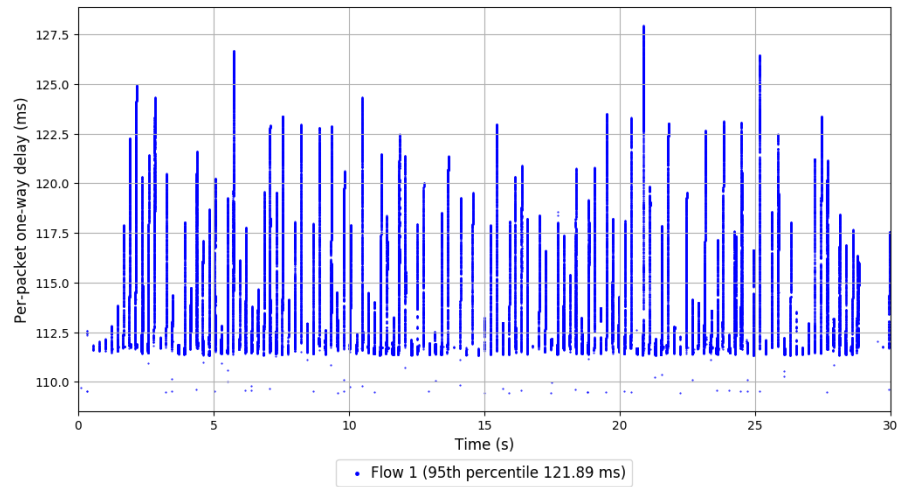
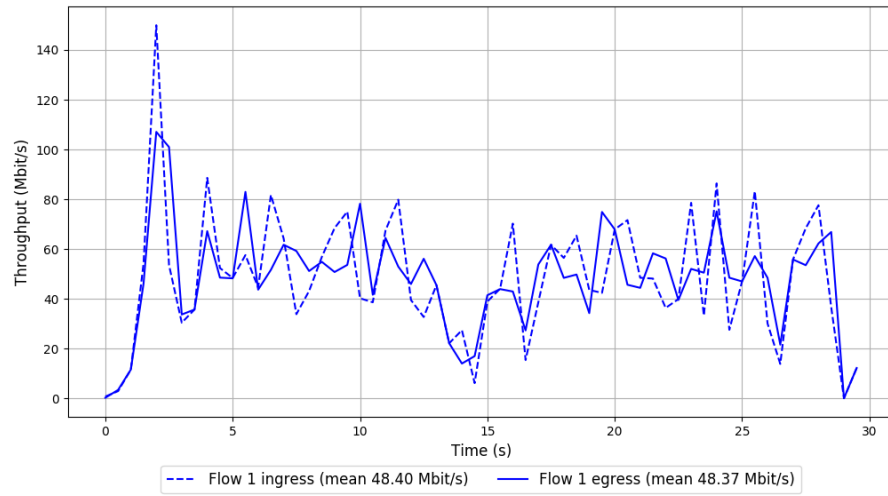
-- Flow 1:

Average throughput: 48.37 Mbit/s

95th percentile per-packet one-way delay: 121.894 ms

Loss rate: 0.04%

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



Run 4: Statistics of TCP BBR

Start at: 2017-09-21 11:48:03

End at: 2017-09-21 11:48:33

# Below is generated by plot.py at 2017-09-21 13:36:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 51.25 Mbit/s

95th percentile per-packet one-way delay: 121.339 ms

Loss rate: 0.01%

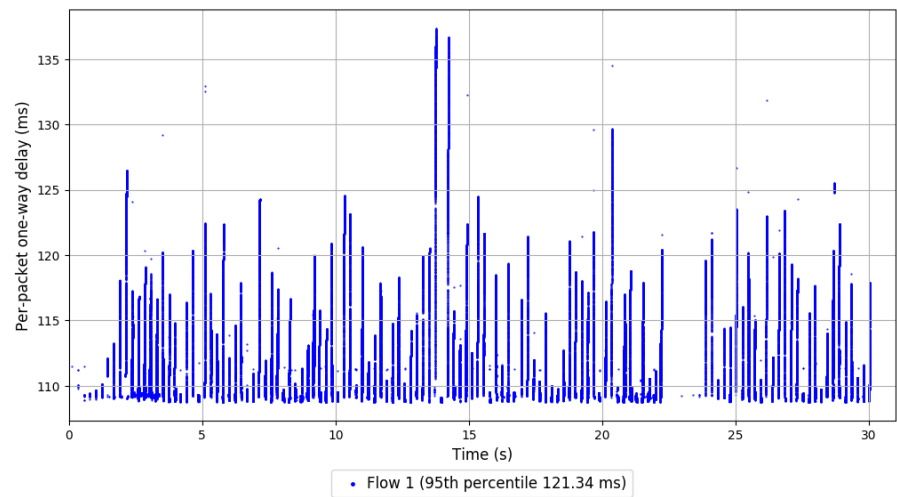
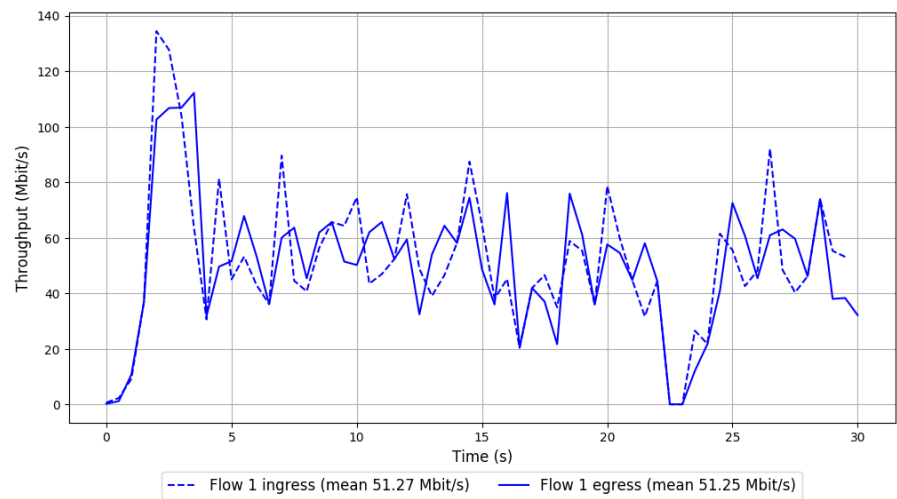
-- Flow 1:

Average throughput: 51.25 Mbit/s

95th percentile per-packet one-way delay: 121.339 ms

Loss rate: 0.01%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-09-21 11:58:43

End at: 2017-09-21 11:59:13

# Below is generated by plot.py at 2017-09-21 13:36:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 47.44 Mbit/s

95th percentile per-packet one-way delay: 120.964 ms

Loss rate: 0.00%

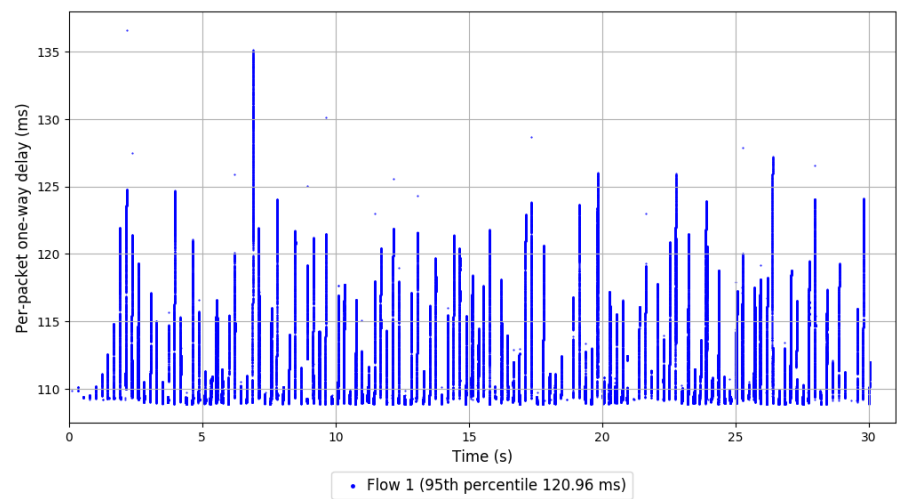
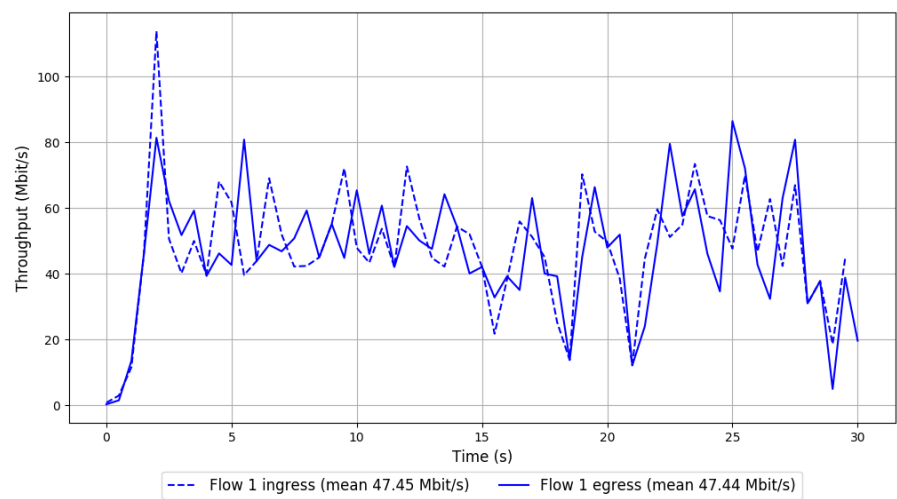
-- Flow 1:

Average throughput: 47.44 Mbit/s

95th percentile per-packet one-way delay: 120.964 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-09-21 12:09:48

End at: 2017-09-21 12:10:18

# Below is generated by plot.py at 2017-09-21 13:36:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.34 Mbit/s

95th percentile per-packet one-way delay: 117.430 ms

Loss rate: 0.02%

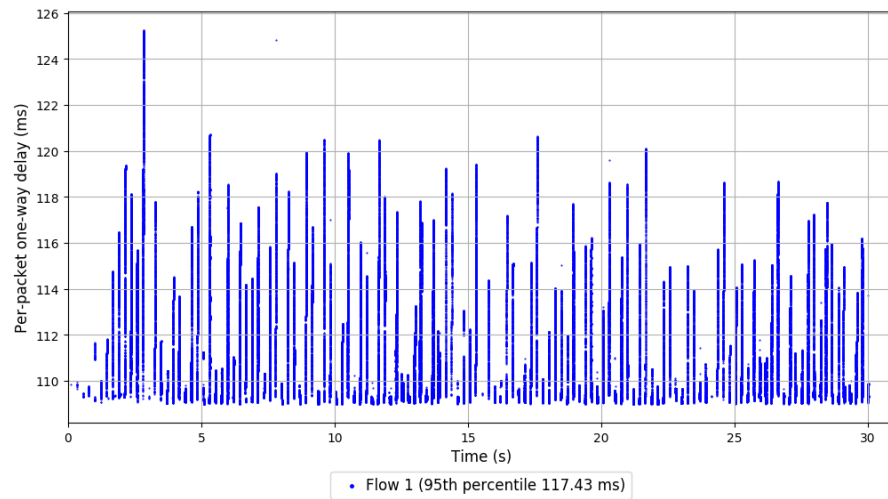
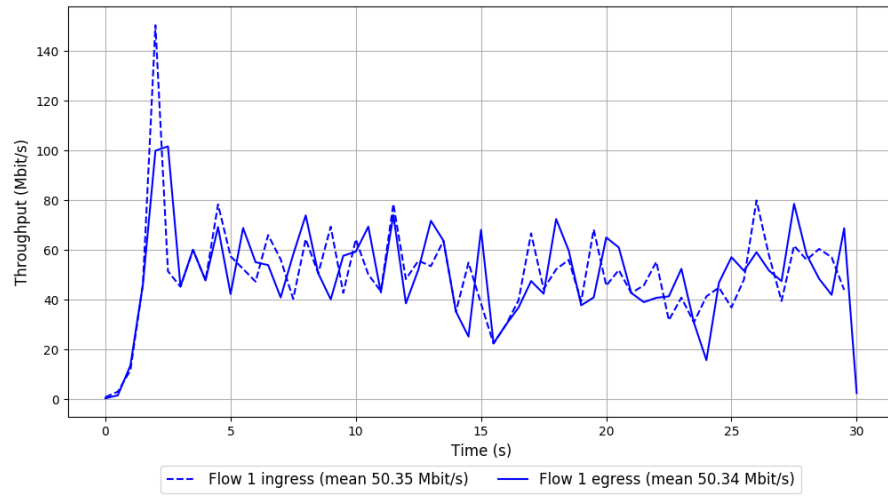
-- Flow 1:

Average throughput: 50.34 Mbit/s

95th percentile per-packet one-way delay: 117.430 ms

Loss rate: 0.02%

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



Run 7: Statistics of TCP BBR

Start at: 2017-09-21 12:20:56

End at: 2017-09-21 12:21:26

# Below is generated by plot.py at 2017-09-21 13:36:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 47.84 Mbit/s

95th percentile per-packet one-way delay: 117.403 ms

Loss rate: 0.18%

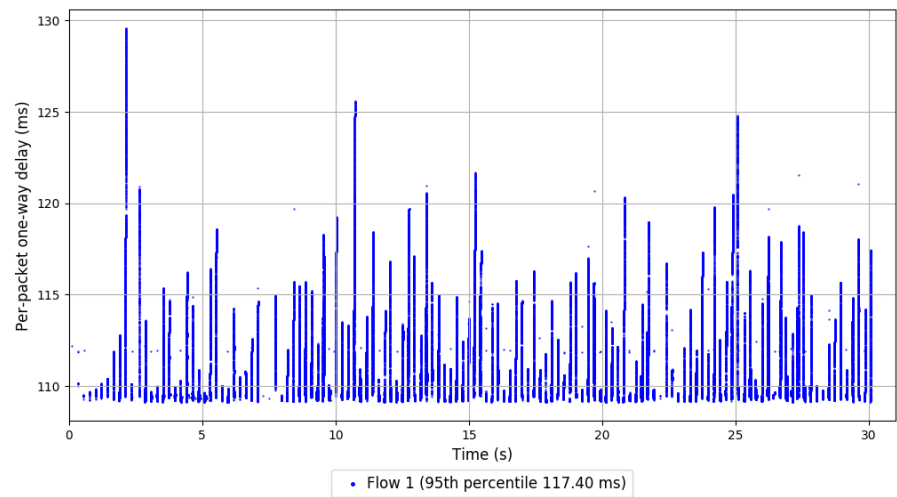
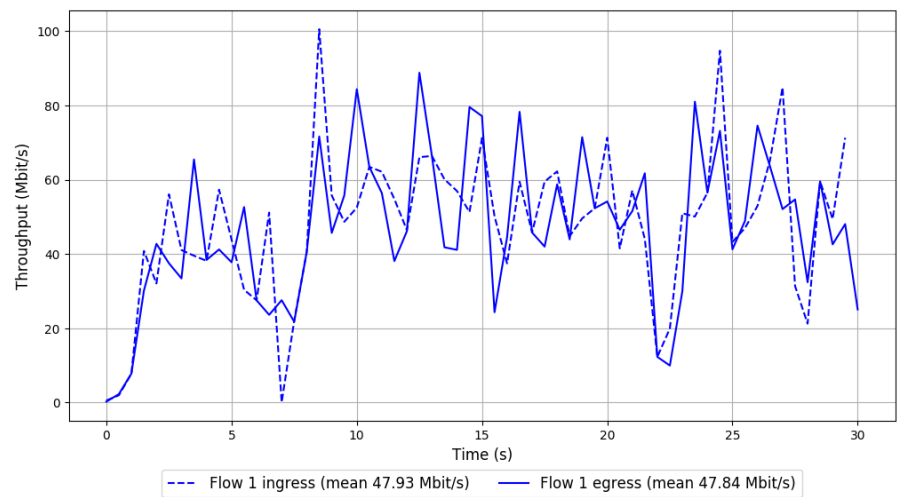
-- Flow 1:

Average throughput: 47.84 Mbit/s

95th percentile per-packet one-way delay: 117.403 ms

Loss rate: 0.18%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-09-21 12:31:49

End at: 2017-09-21 12:32:19

# Below is generated by plot.py at 2017-09-21 13:36:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.38 Mbit/s

95th percentile per-packet one-way delay: 120.457 ms

Loss rate: 0.02%

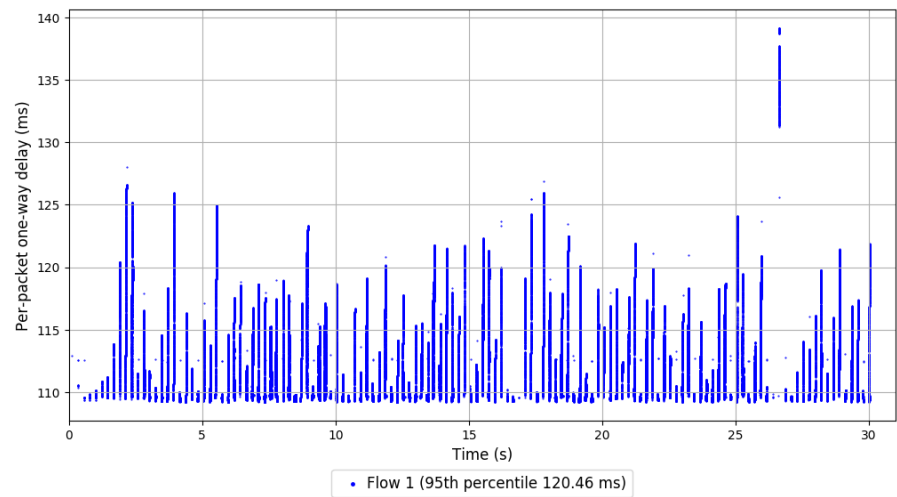
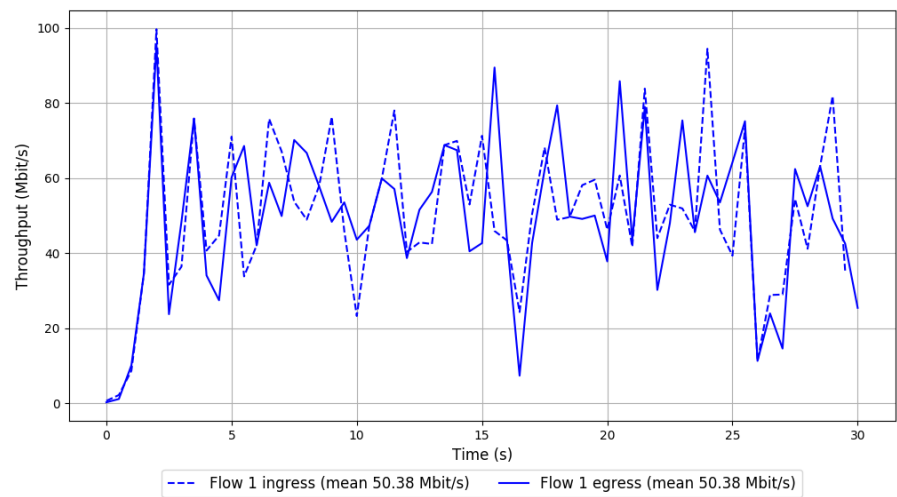
-- Flow 1:

Average throughput: 50.38 Mbit/s

95th percentile per-packet one-way delay: 120.457 ms

Loss rate: 0.02%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-09-21 12:43:02

End at: 2017-09-21 12:43:32

# Below is generated by plot.py at 2017-09-21 13:36:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 41.95 Mbit/s

95th percentile per-packet one-way delay: 121.860 ms

Loss rate: 0.20%

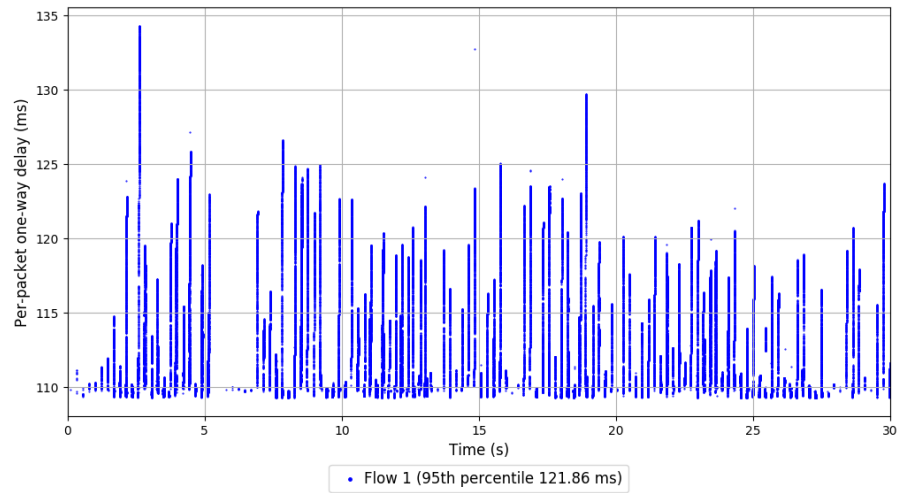
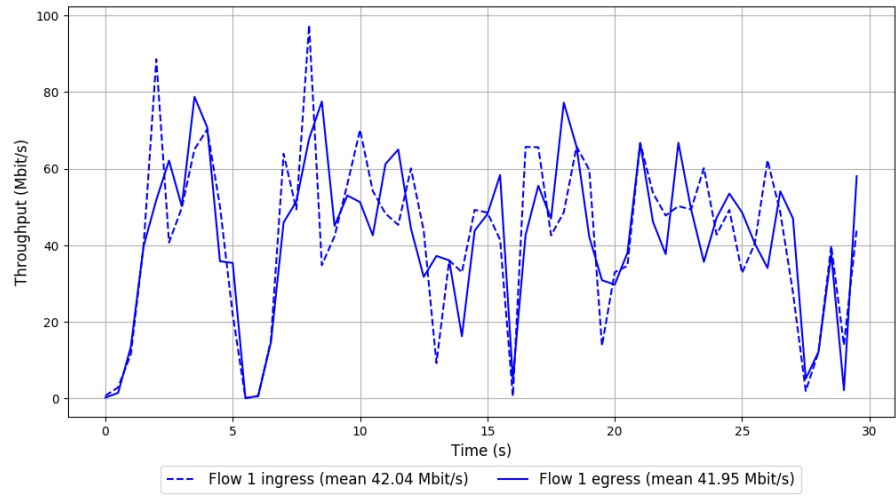
-- Flow 1:

Average throughput: 41.95 Mbit/s

95th percentile per-packet one-way delay: 121.860 ms

Loss rate: 0.20%

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



Run 10: Statistics of TCP BBR

Start at: 2017-09-21 12:54:25

End at: 2017-09-21 12:54:55

# Below is generated by plot.py at 2017-09-21 13:37:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 49.11 Mbit/s

95th percentile per-packet one-way delay: 121.868 ms

Loss rate: 0.05%

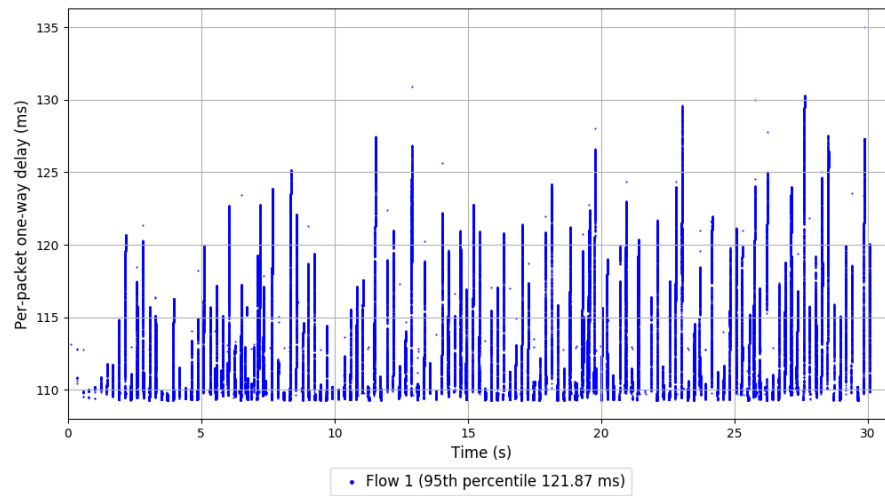
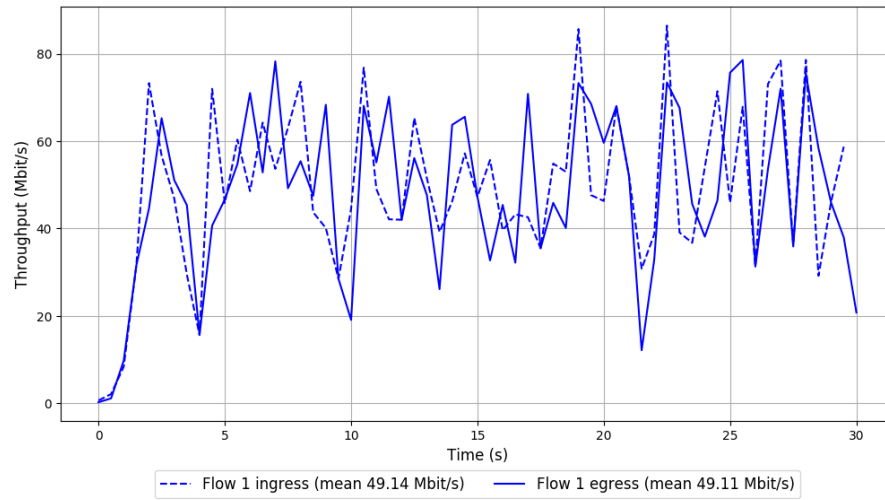
-- Flow 1:

Average throughput: 49.11 Mbit/s

95th percentile per-packet one-way delay: 121.868 ms

Loss rate: 0.05%

# Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-09-21 11:12:30

End at: 2017-09-21 11:13:00

# Below is generated by plot.py at 2017-09-21 13:37:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 26.68 Mbit/s

95th percentile per-packet one-way delay: 116.658 ms

Loss rate: 0.01%

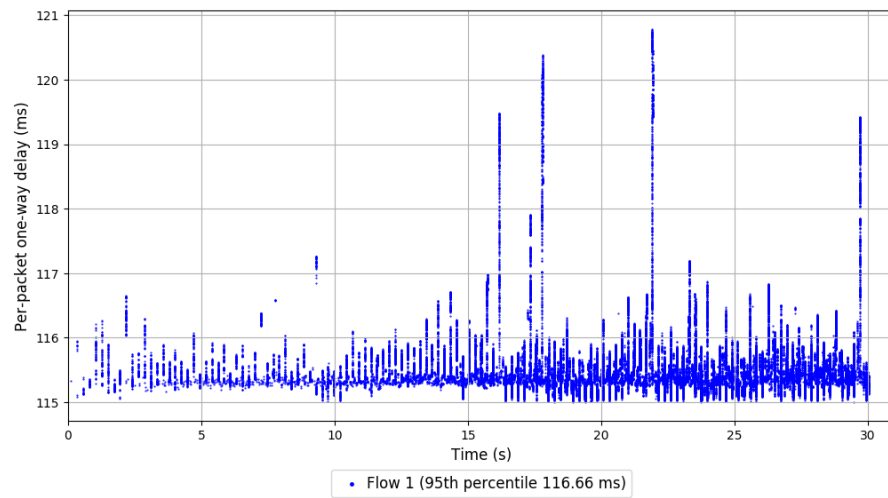
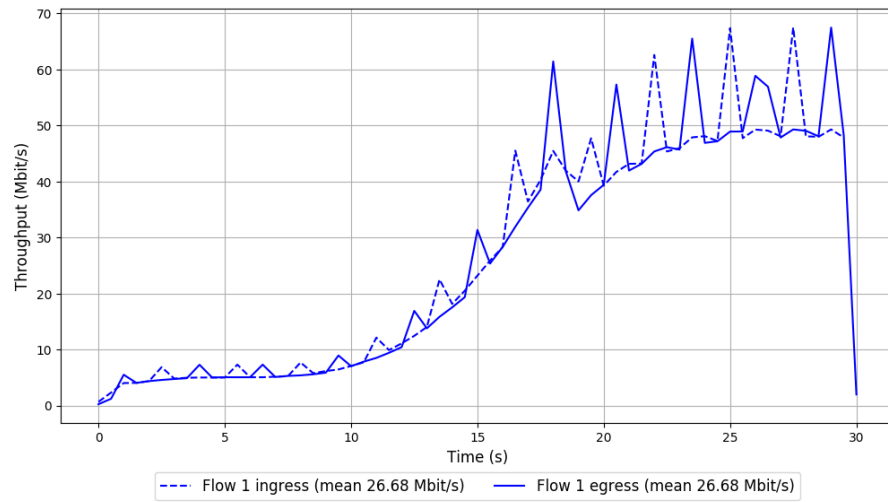
-- Flow 1:

Average throughput: 26.68 Mbit/s

95th percentile per-packet one-way delay: 116.658 ms

Loss rate: 0.01%

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



Run 2: Statistics of TCP Cubic

Start at: 2017-09-21 11:23:35

End at: 2017-09-21 11:24:05

# Below is generated by plot.py at 2017-09-21 13:37:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 44.17 Mbit/s

95th percentile per-packet one-way delay: 114.402 ms

Loss rate: 0.01%

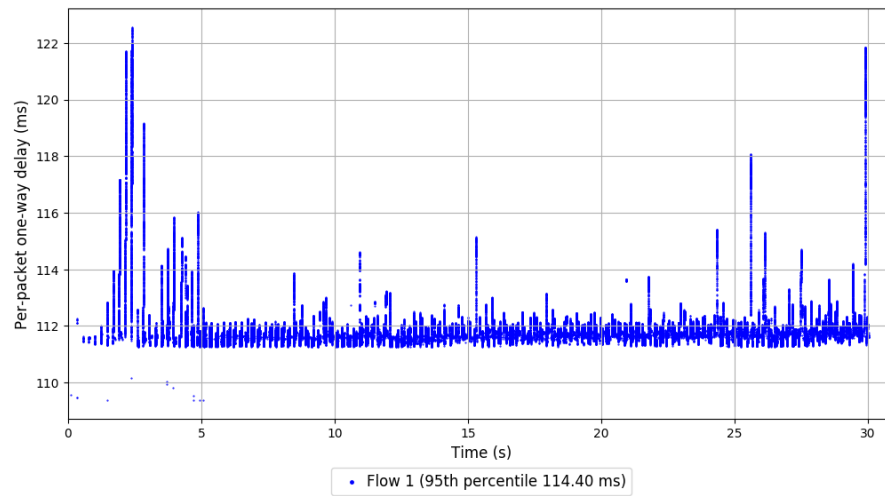
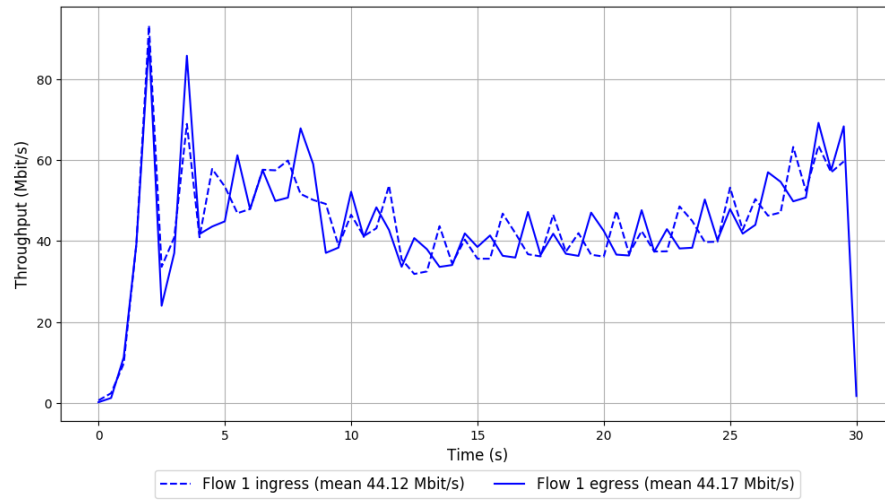
-- Flow 1:

Average throughput: 44.17 Mbit/s

95th percentile per-packet one-way delay: 114.402 ms

Loss rate: 0.01%

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



Run 3: Statistics of TCP Cubic

Start at: 2017-09-21 11:34:24

End at: 2017-09-21 11:34:55

# Below is generated by plot.py at 2017-09-21 13:37:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 48.88 Mbit/s

95th percentile per-packet one-way delay: 114.661 ms

Loss rate: 0.01%

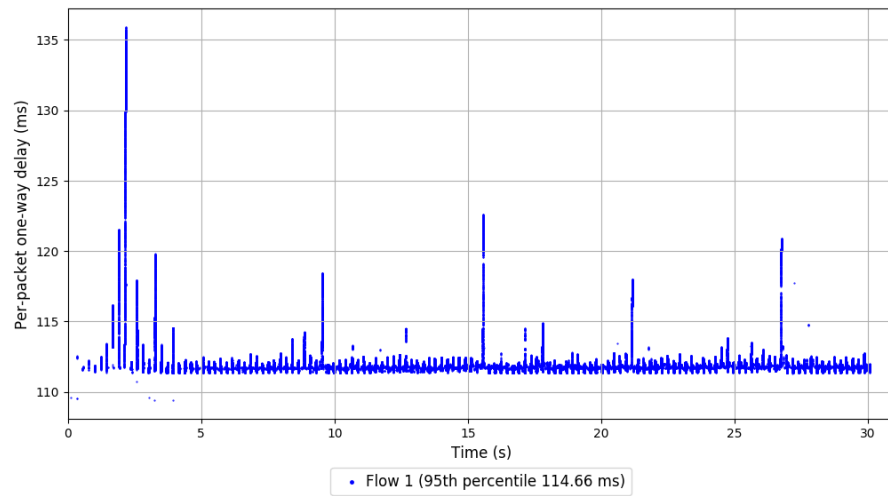
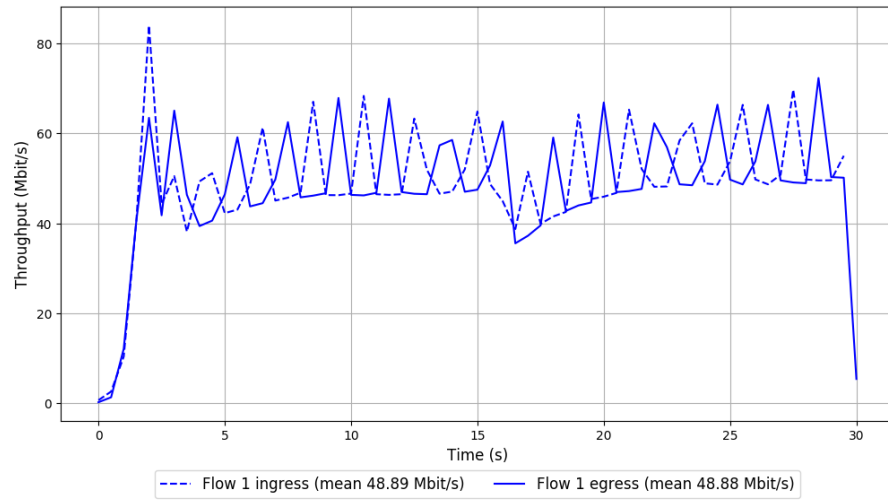
-- Flow 1:

Average throughput: 48.88 Mbit/s

95th percentile per-packet one-way delay: 114.661 ms

Loss rate: 0.01%

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



Run 4: Statistics of TCP Cubic

Start at: 2017-09-21 11:45:11

End at: 2017-09-21 11:45:41

# Below is generated by plot.py at 2017-09-21 13:37:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 65.65 Mbit/s

95th percentile per-packet one-way delay: 114.854 ms

Loss rate: 0.01%

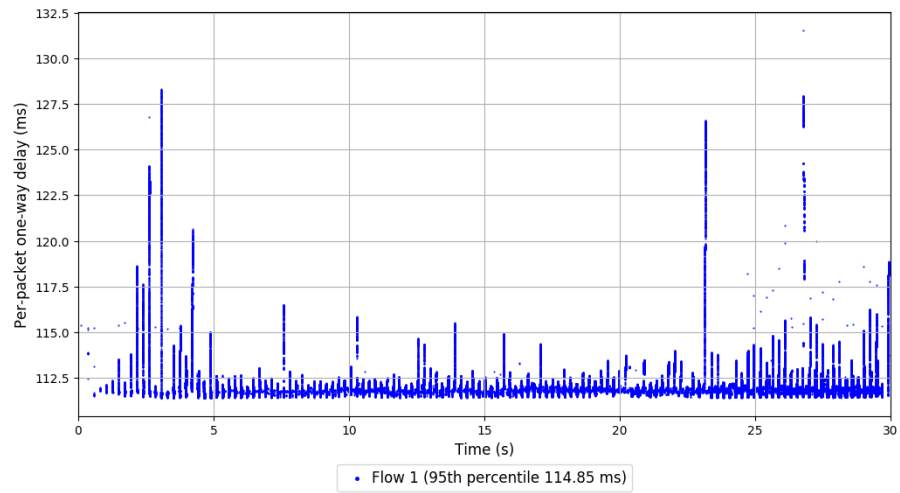
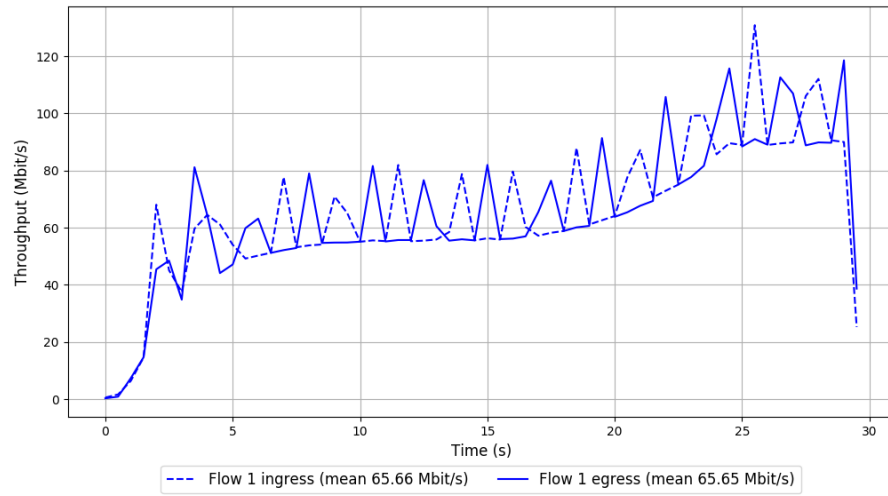
-- Flow 1:

Average throughput: 65.65 Mbit/s

95th percentile per-packet one-way delay: 114.854 ms

Loss rate: 0.01%

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



Run 5: Statistics of TCP Cubic

Start at: 2017-09-21 11:55:55

End at: 2017-09-21 11:56:25

# Below is generated by plot.py at 2017-09-21 13:37:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 24.90 Mbit/s

95th percentile per-packet one-way delay: 111.610 ms

Loss rate: 0.01%

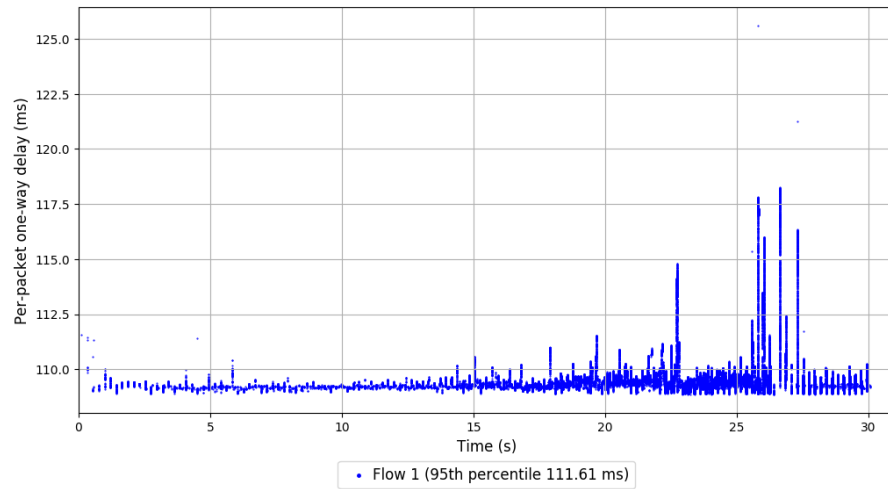
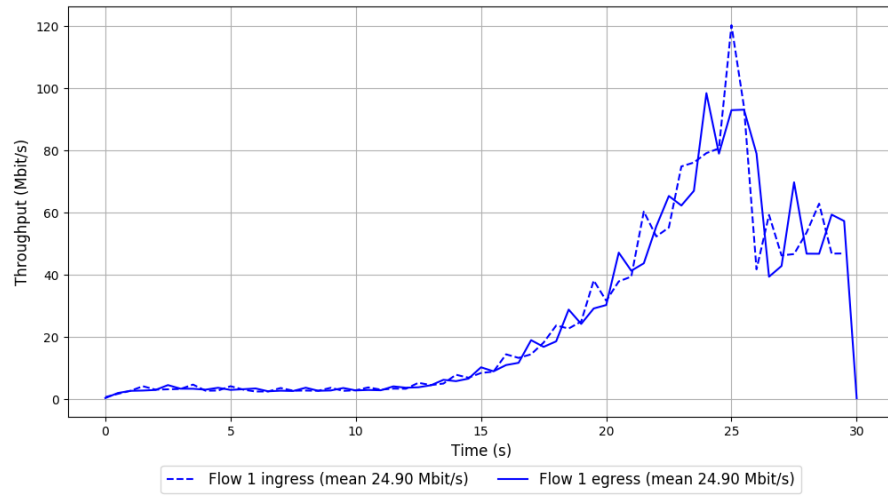
-- Flow 1:

Average throughput: 24.90 Mbit/s

95th percentile per-packet one-way delay: 111.610 ms

Loss rate: 0.01%

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



Run 6: Statistics of TCP Cubic

Start at: 2017-09-21 12:06:55

End at: 2017-09-21 12:07:25

# Below is generated by plot.py at 2017-09-21 13:37:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 37.91 Mbit/s

95th percentile per-packet one-way delay: 116.637 ms

Loss rate: 0.03%

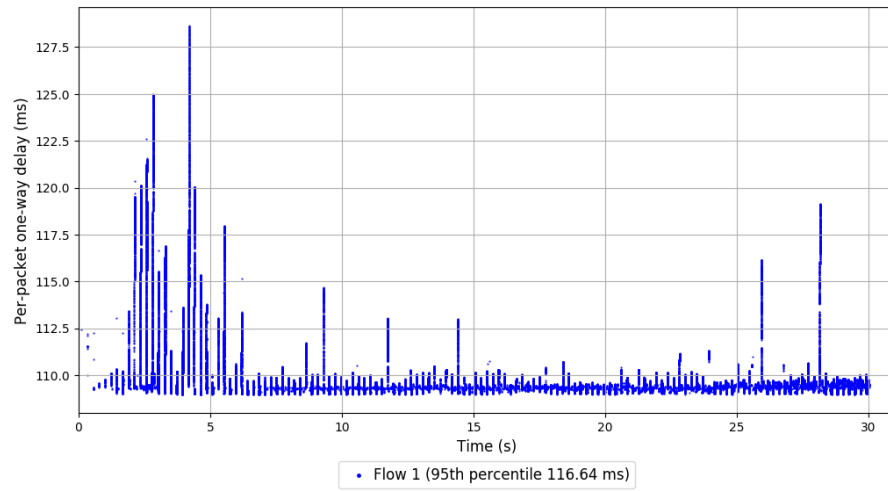
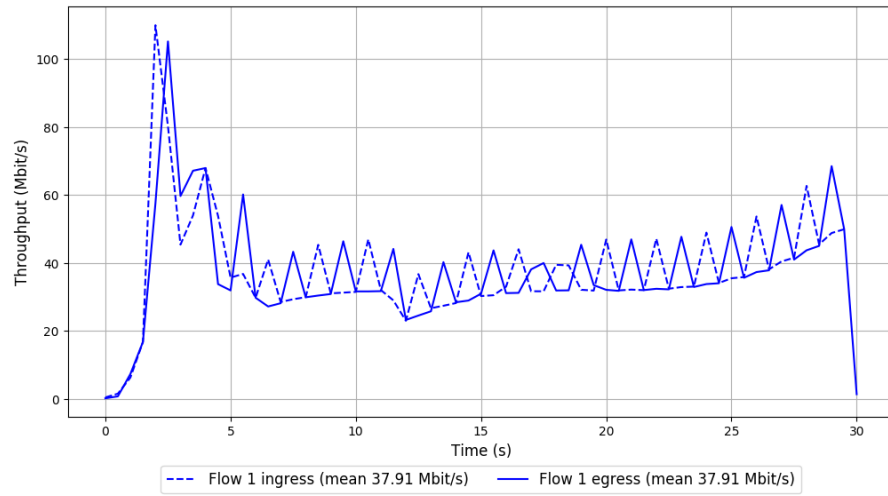
-- Flow 1:

Average throughput: 37.91 Mbit/s

95th percentile per-packet one-way delay: 116.637 ms

Loss rate: 0.03%

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



Run 7: Statistics of TCP Cubic

Start at: 2017-09-21 12:18:06

End at: 2017-09-21 12:18:36

# Below is generated by plot.py at 2017-09-21 13:37:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 72.67 Mbit/s

95th percentile per-packet one-way delay: 111.299 ms

Loss rate: 0.05%

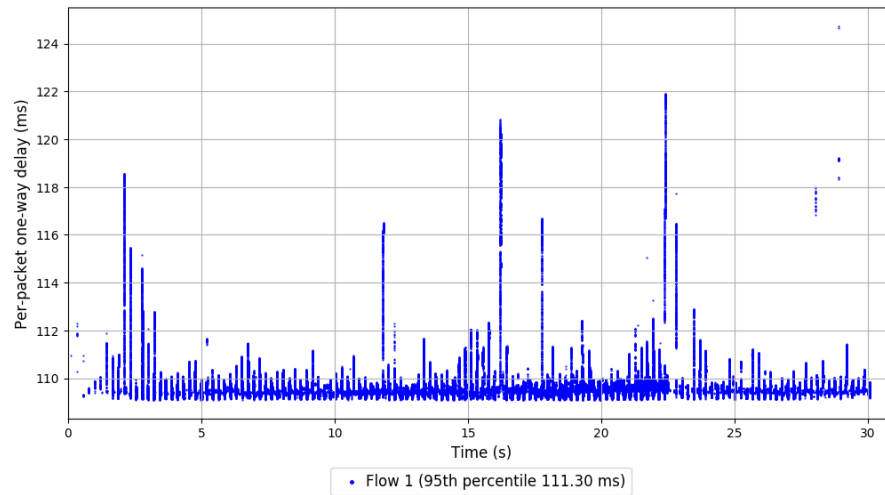
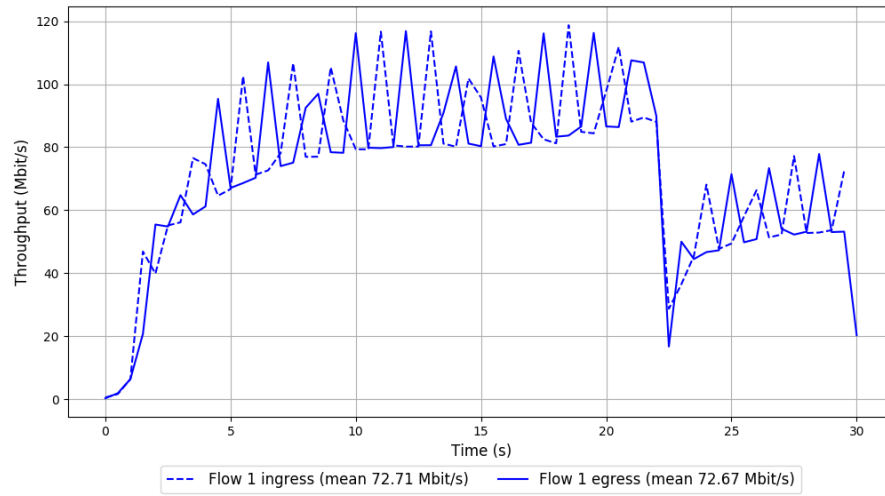
-- Flow 1:

Average throughput: 72.67 Mbit/s

95th percentile per-packet one-way delay: 111.299 ms

Loss rate: 0.05%

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



Run 8: Statistics of TCP Cubic

Start at: 2017-09-21 12:28:59

End at: 2017-09-21 12:29:29

# Below is generated by plot.py at 2017-09-21 13:37:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 45.08 Mbit/s

95th percentile per-packet one-way delay: 111.142 ms

Loss rate: 0.01%

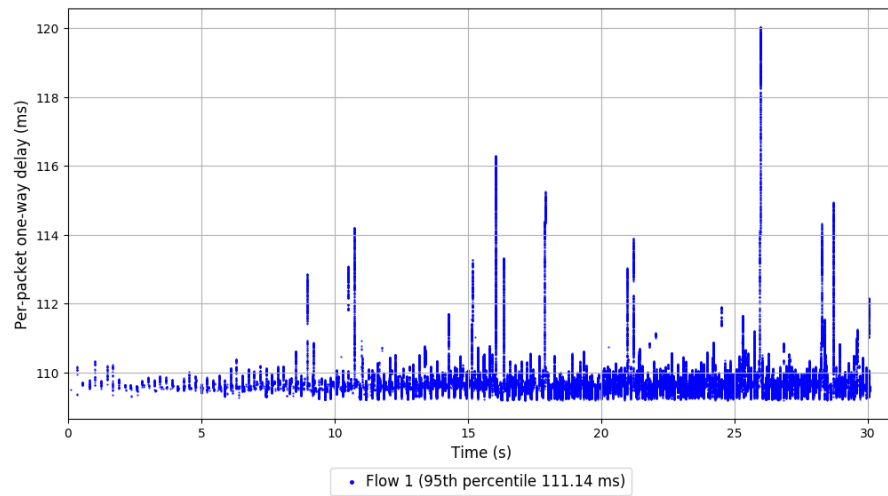
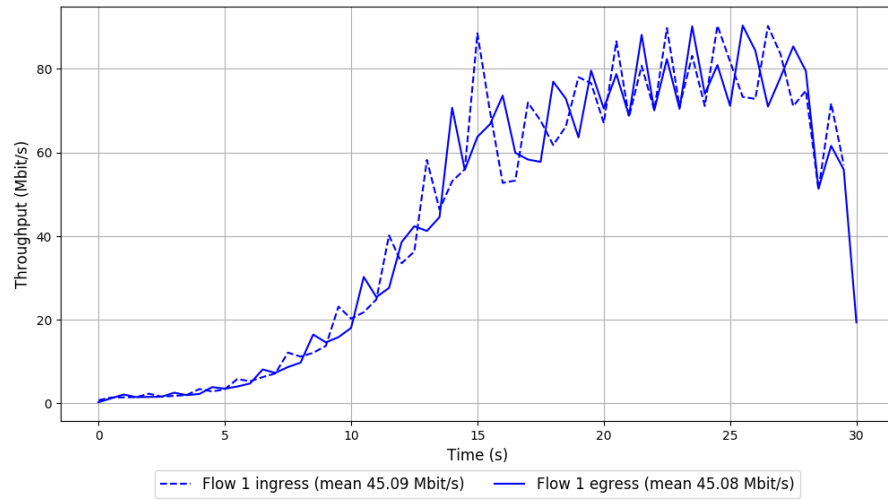
-- Flow 1:

Average throughput: 45.08 Mbit/s

95th percentile per-packet one-way delay: 111.142 ms

Loss rate: 0.01%

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



Run 9: Statistics of TCP Cubic

Start at: 2017-09-21 12:40:11

End at: 2017-09-21 12:40:41

# Below is generated by plot.py at 2017-09-21 13:37:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 49.80 Mbit/s

95th percentile per-packet one-way delay: 112.289 ms

Loss rate: 0.02%

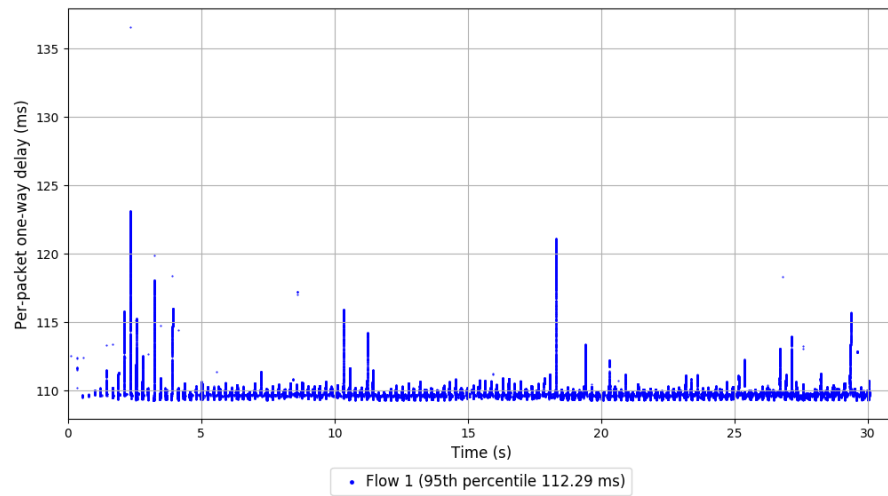
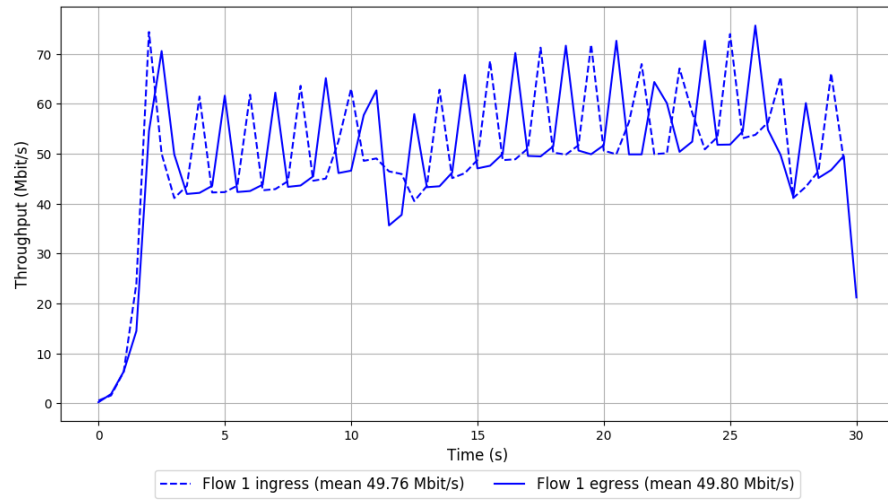
-- Flow 1:

Average throughput: 49.80 Mbit/s

95th percentile per-packet one-way delay: 112.289 ms

Loss rate: 0.02%

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



Run 10: Statistics of TCP Cubic

Start at: 2017-09-21 12:51:34

End at: 2017-09-21 12:52:04

# Below is generated by plot.py at 2017-09-21 13:37:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.41 Mbit/s

95th percentile per-packet one-way delay: 117.406 ms

Loss rate: 0.17%

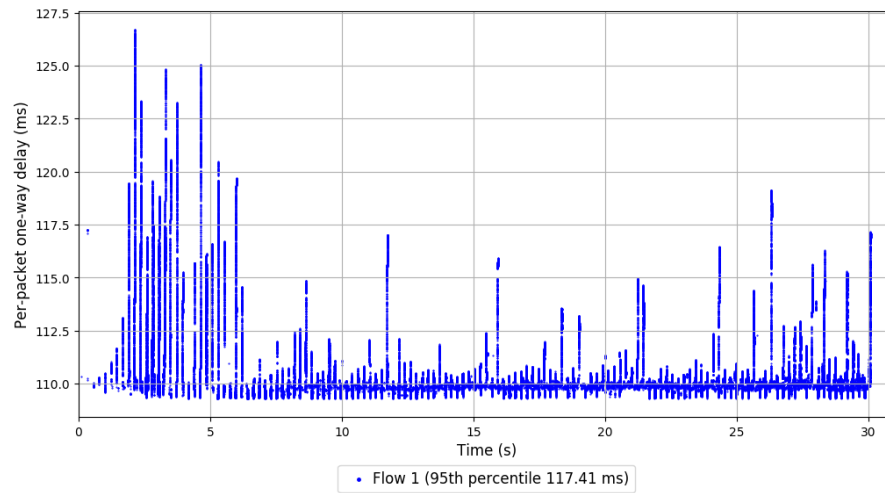
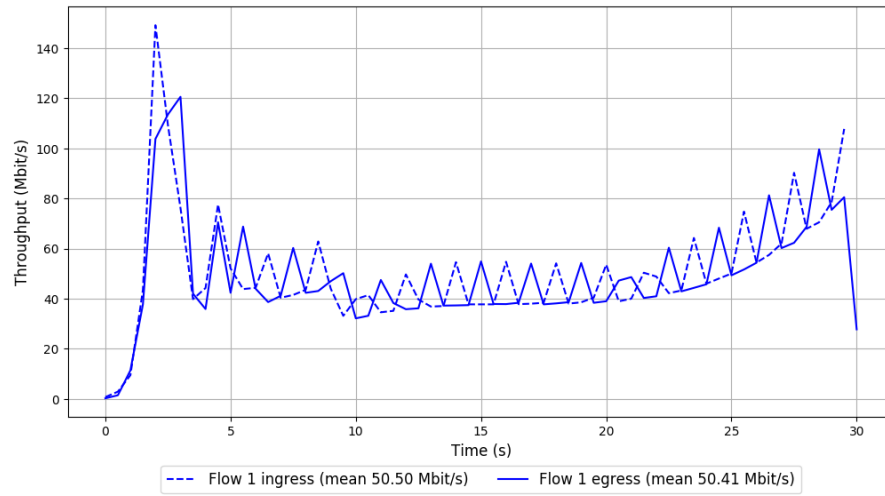
-- Flow 1:

Average throughput: 50.41 Mbit/s

95th percentile per-packet one-way delay: 117.406 ms

Loss rate: 0.17%

# Run 10: Report of TCP Cubic — Data Link

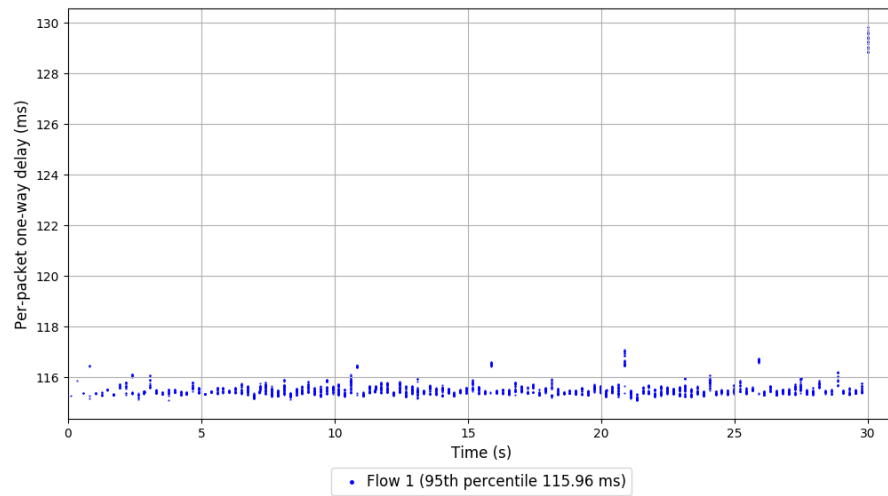
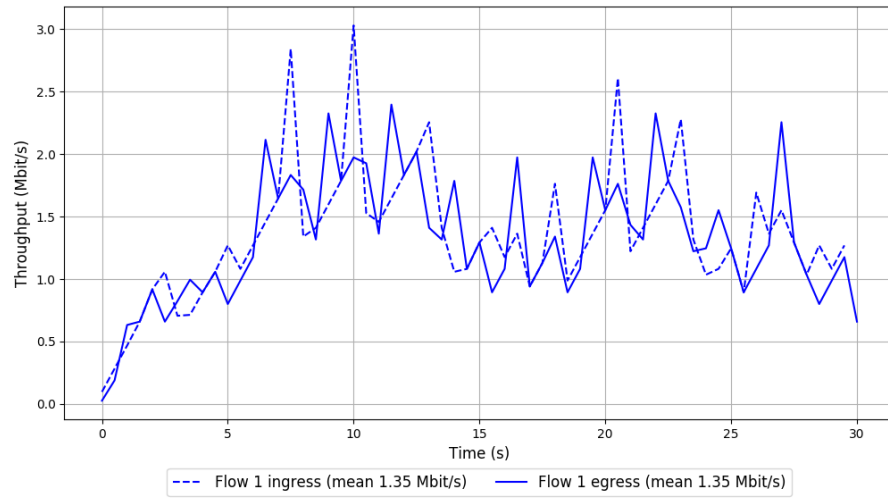


```
Run 1: Statistics of LEDBAT

Start at: 2017-09-21 11:14:37
End at: 2017-09-21 11:15:07

# Below is generated by plot.py at 2017-09-21 13:37:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.35 Mbit/s
95th percentile per-packet one-way delay: 115.957 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 1.35 Mbit/s
95th percentile per-packet one-way delay: 115.957 ms
Loss rate: 0.41%
```

### Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2017-09-21 11:25:42

End at: 2017-09-21 11:26:12

# Below is generated by plot.py at 2017-09-21 13:37:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.10 Mbit/s

95th percentile per-packet one-way delay: 112.080 ms

Loss rate: 0.25%

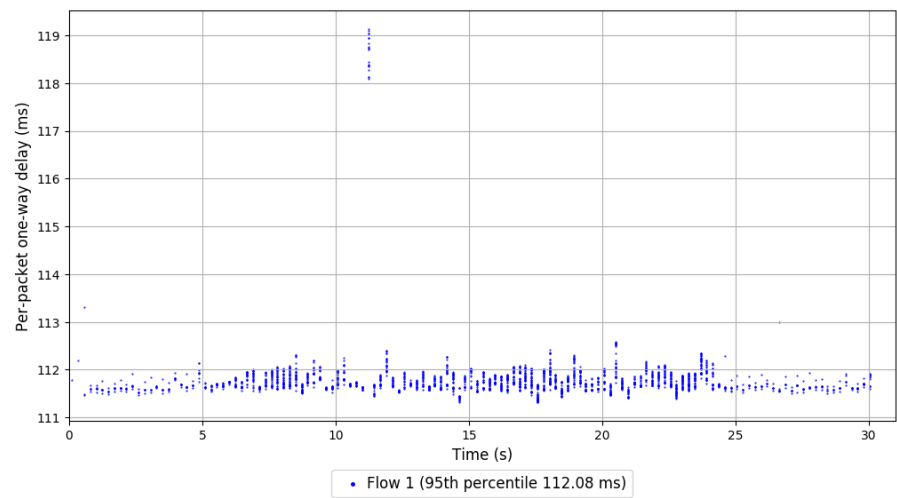
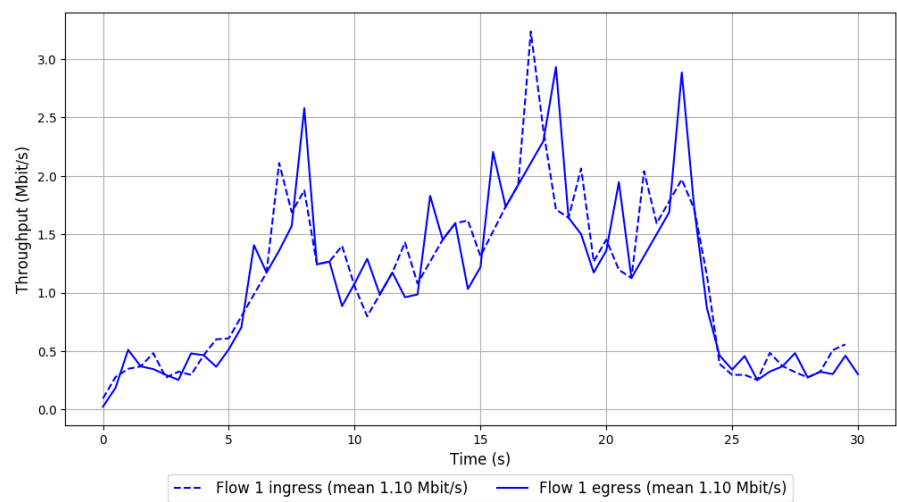
-- Flow 1:

Average throughput: 1.10 Mbit/s

95th percentile per-packet one-way delay: 112.080 ms

Loss rate: 0.25%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-09-21 11:36:33

End at: 2017-09-21 11:37:03

# Below is generated by plot.py at 2017-09-21 13:37:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.64 Mbit/s

95th percentile per-packet one-way delay: 112.386 ms

Loss rate: 0.24%

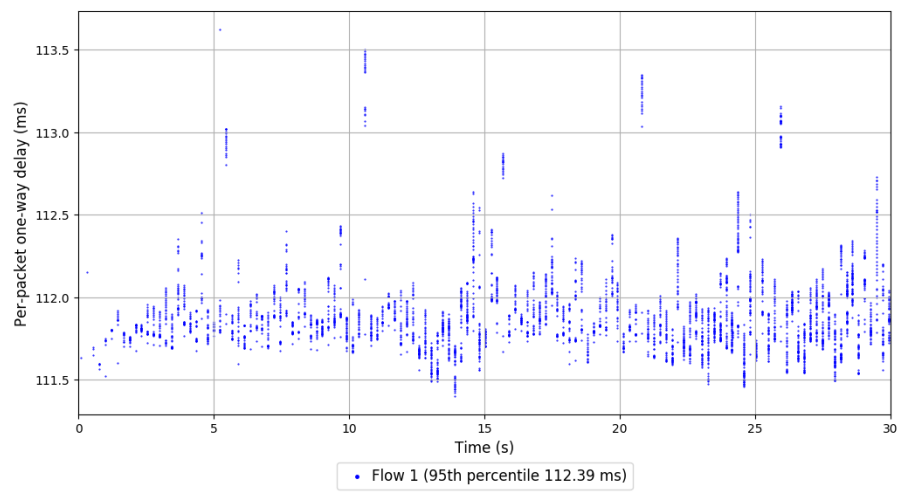
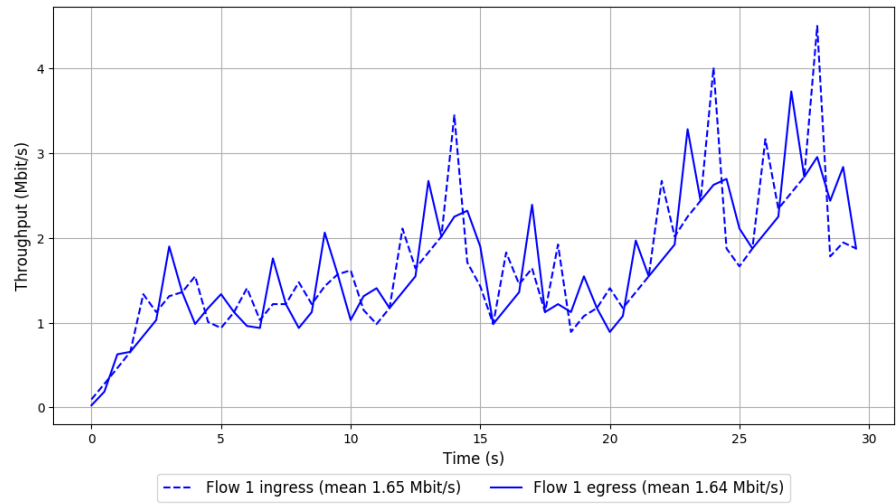
-- Flow 1:

Average throughput: 1.64 Mbit/s

95th percentile per-packet one-way delay: 112.386 ms

Loss rate: 0.24%

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



Run 4: Statistics of LEDBAT

Start at: 2017-09-21 11:47:21

End at: 2017-09-21 11:47:52

# Below is generated by plot.py at 2017-09-21 13:37:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.66 Mbit/s

95th percentile per-packet one-way delay: 109.760 ms

Loss rate: 0.33%

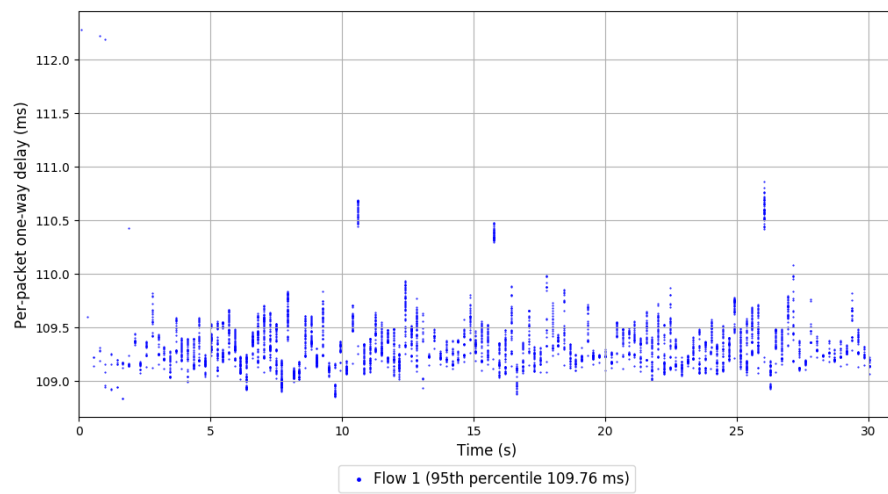
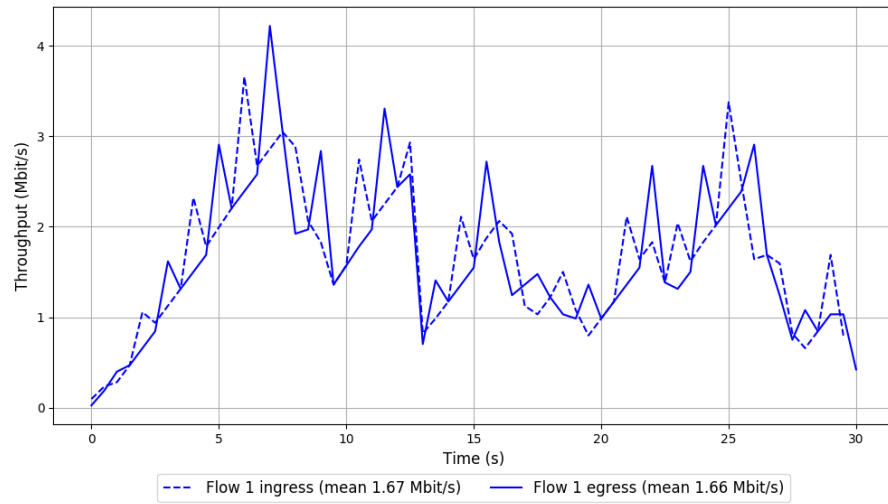
-- Flow 1:

Average throughput: 1.66 Mbit/s

95th percentile per-packet one-way delay: 109.760 ms

Loss rate: 0.33%

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



Run 5: Statistics of LEDBAT

Start at: 2017-09-21 11:58:01

End at: 2017-09-21 11:58:31

# Below is generated by plot.py at 2017-09-21 13:37:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.72 Mbit/s

95th percentile per-packet one-way delay: 110.352 ms

Loss rate: 1.21%

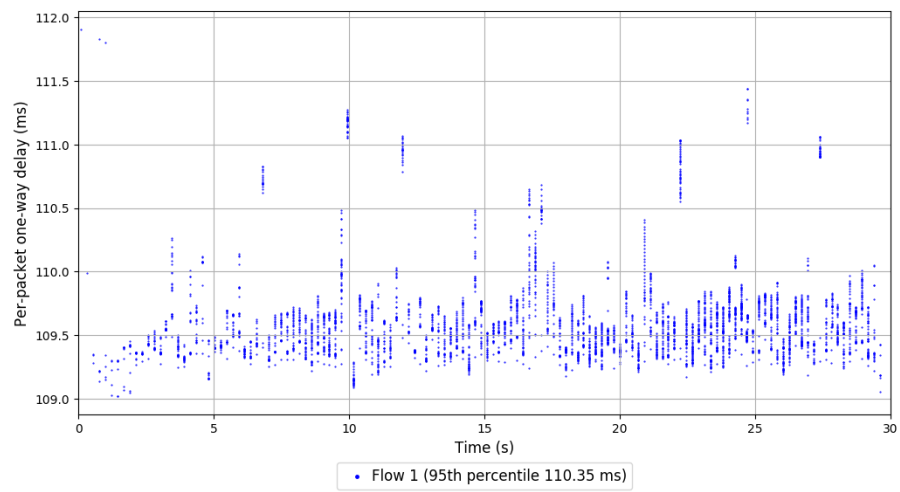
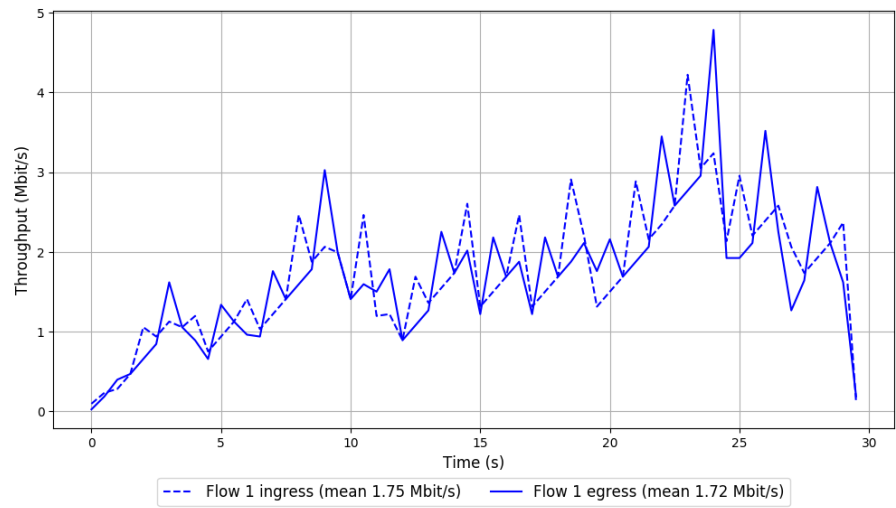
-- Flow 1:

Average throughput: 1.72 Mbit/s

95th percentile per-packet one-way delay: 110.352 ms

Loss rate: 1.21%

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



Run 6: Statistics of LEDBAT

Start at: 2017-09-21 12:09:07

End at: 2017-09-21 12:09:37

# Below is generated by plot.py at 2017-09-21 13:37:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 109.940 ms

Loss rate: 0.00%

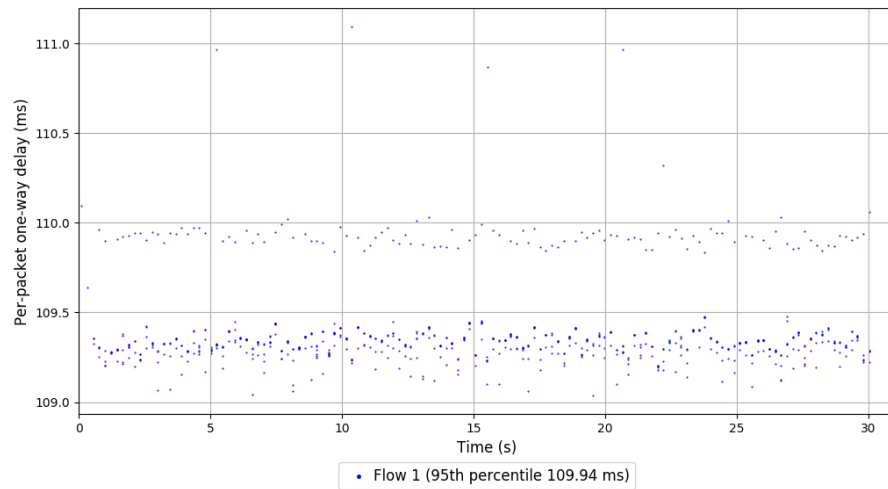
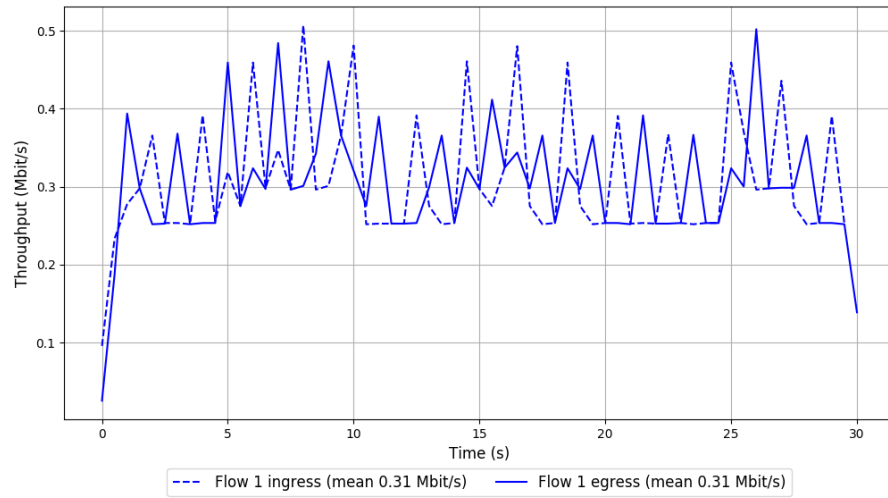
-- Flow 1:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 109.940 ms

Loss rate: 0.00%

## Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-09-21 12:20:15

End at: 2017-09-21 12:20:45

# Below is generated by plot.py at 2017-09-21 13:37:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 109.875 ms

Loss rate: 0.25%

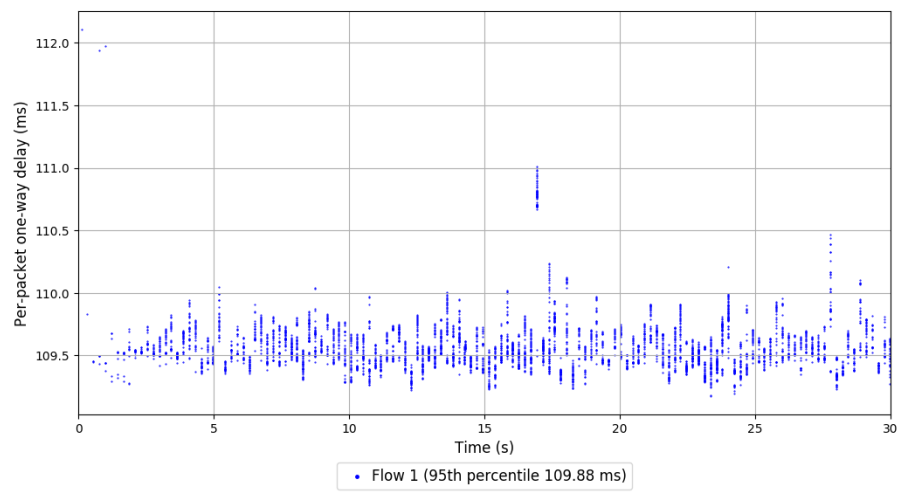
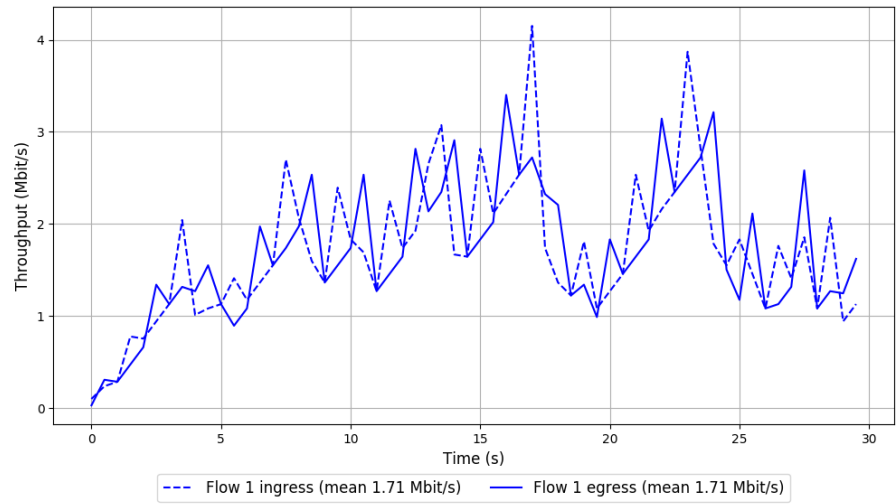
-- Flow 1:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 109.875 ms

Loss rate: 0.25%

### Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-09-21 12:31:07

End at: 2017-09-21 12:31:37

# Below is generated by plot.py at 2017-09-21 13:37:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 110.517 ms

Loss rate: 0.41%

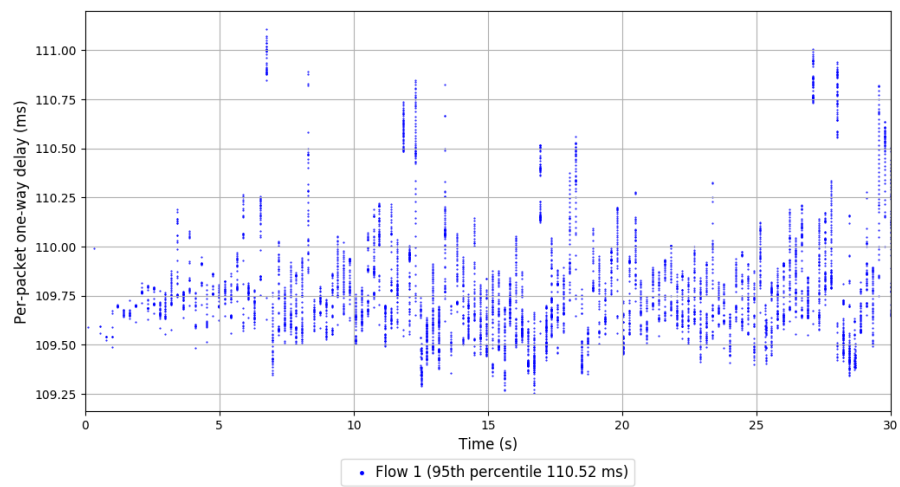
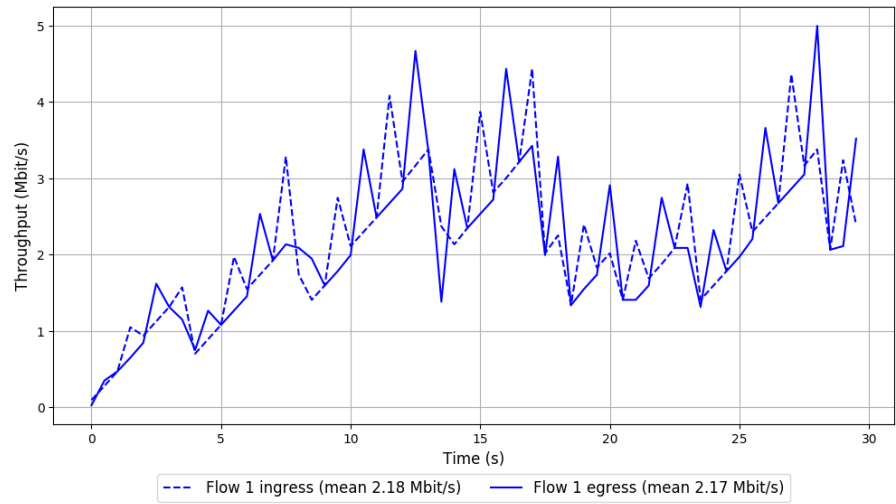
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 110.517 ms

Loss rate: 0.41%

## Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-09-21 12:42:20

End at: 2017-09-21 12:42:50

# Below is generated by plot.py at 2017-09-21 13:37:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.96 Mbit/s

95th percentile per-packet one-way delay: 110.549 ms

Loss rate: 0.33%

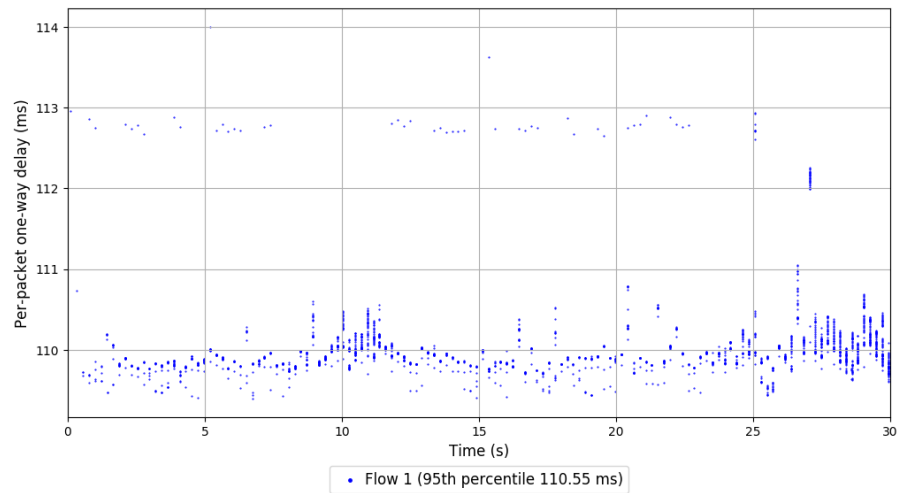
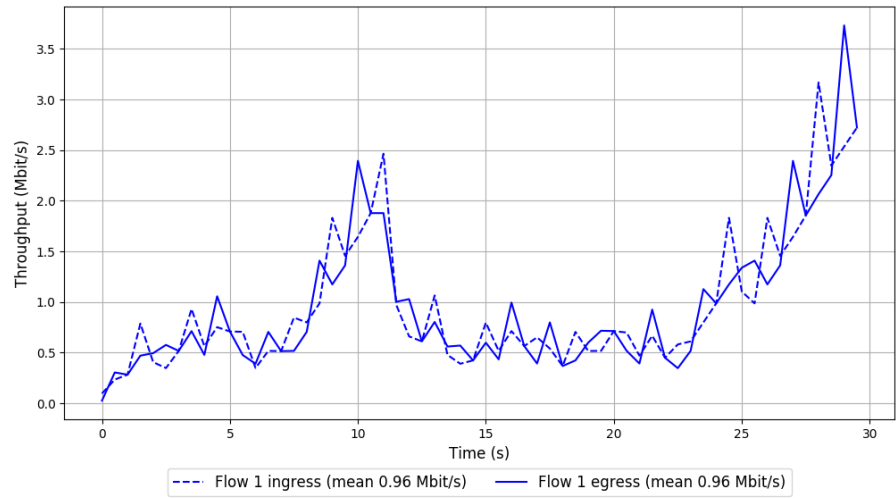
-- Flow 1:

Average throughput: 0.96 Mbit/s

95th percentile per-packet one-way delay: 110.549 ms

Loss rate: 0.33%

### Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-09-21 12:53:44

End at: 2017-09-21 12:54:14

# Below is generated by plot.py at 2017-09-21 13:37:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.62 Mbit/s

95th percentile per-packet one-way delay: 110.754 ms

Loss rate: 0.46%

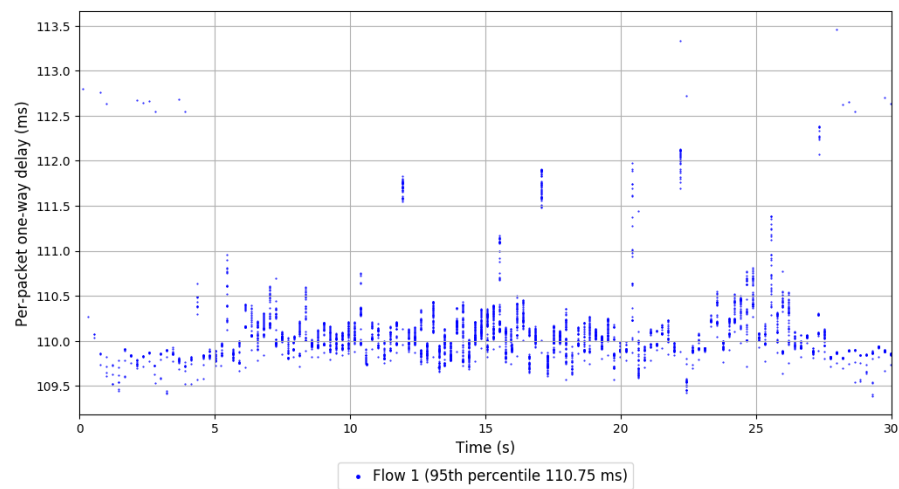
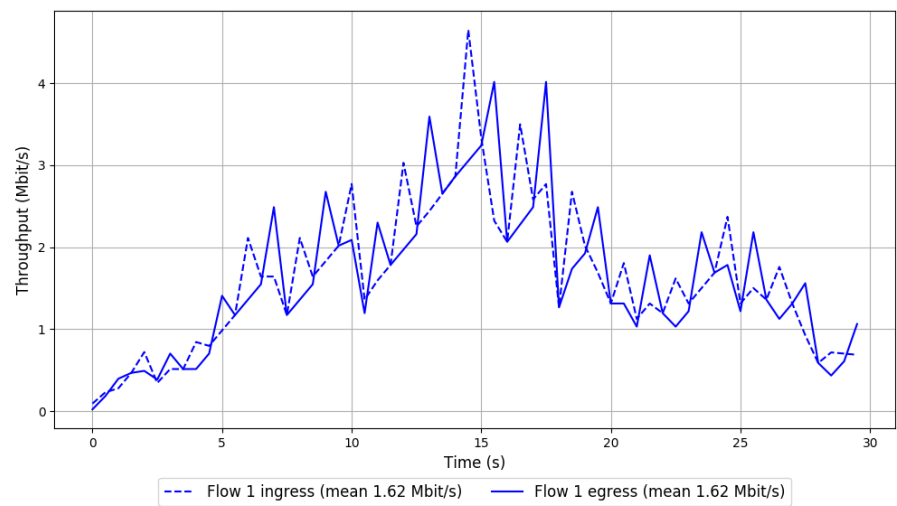
-- Flow 1:

Average throughput: 1.62 Mbit/s

95th percentile per-packet one-way delay: 110.754 ms

Loss rate: 0.46%

Run 10: Report of LEDBAT — Data Link

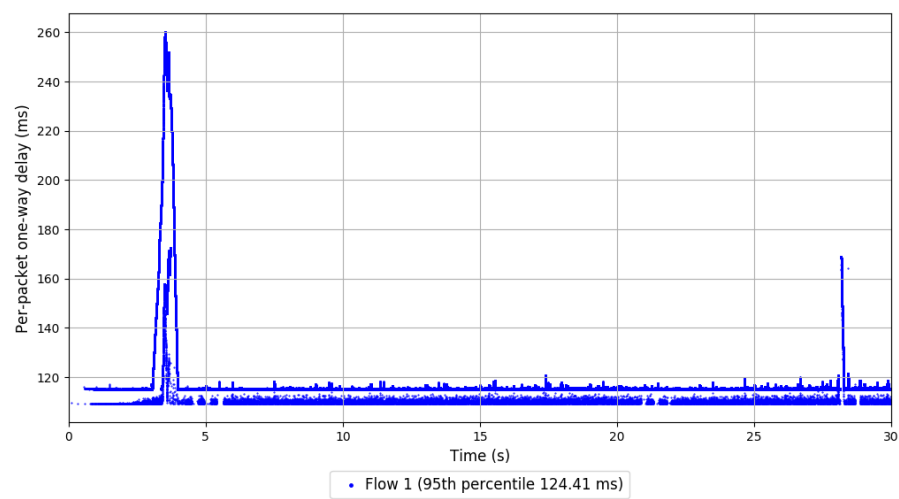
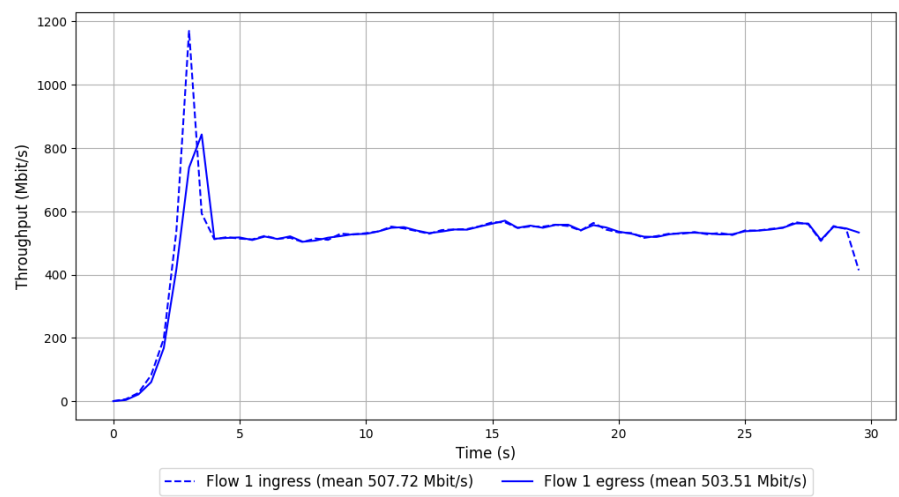


```
Run 1: Statistics of PCC

Start at: 2017-09-21 11:16:02
End at: 2017-09-21 11:16:32

# Below is generated by plot.py at 2017-09-21 13:46:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 503.51 Mbit/s
95th percentile per-packet one-way delay: 124.406 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 503.51 Mbit/s
95th percentile per-packet one-way delay: 124.406 ms
Loss rate: 0.83%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-09-21 11:27:08

End at: 2017-09-21 11:27:38

# Below is generated by plot.py at 2017-09-21 13:47:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 620.12 Mbit/s

95th percentile per-packet one-way delay: 210.904 ms

Loss rate: 1.63%

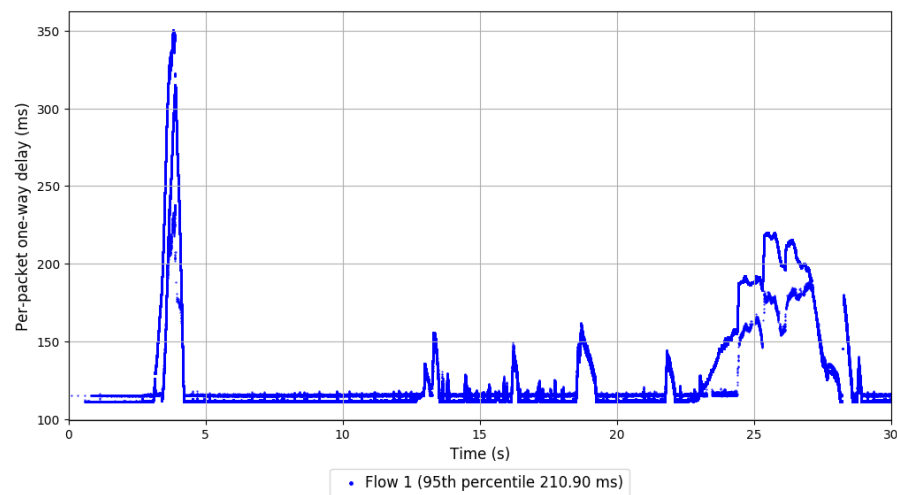
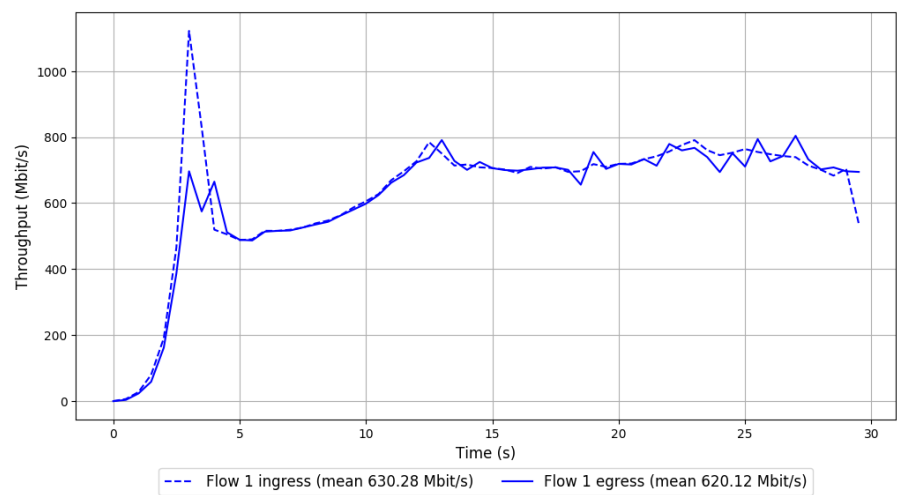
-- Flow 1:

Average throughput: 620.12 Mbit/s

95th percentile per-packet one-way delay: 210.904 ms

Loss rate: 1.63%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-09-21 11:38:00

End at: 2017-09-21 11:38:30

# Below is generated by plot.py at 2017-09-21 13:47:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 615.67 Mbit/s

95th percentile per-packet one-way delay: 173.570 ms

Loss rate: 0.95%

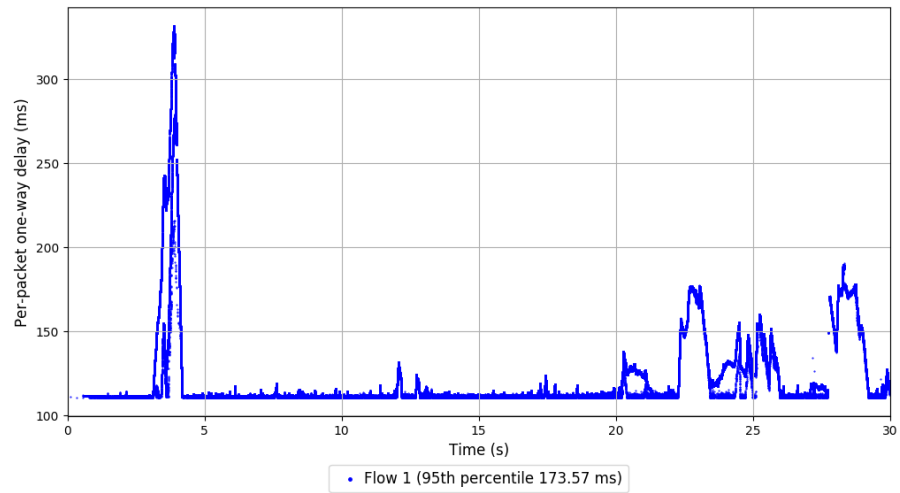
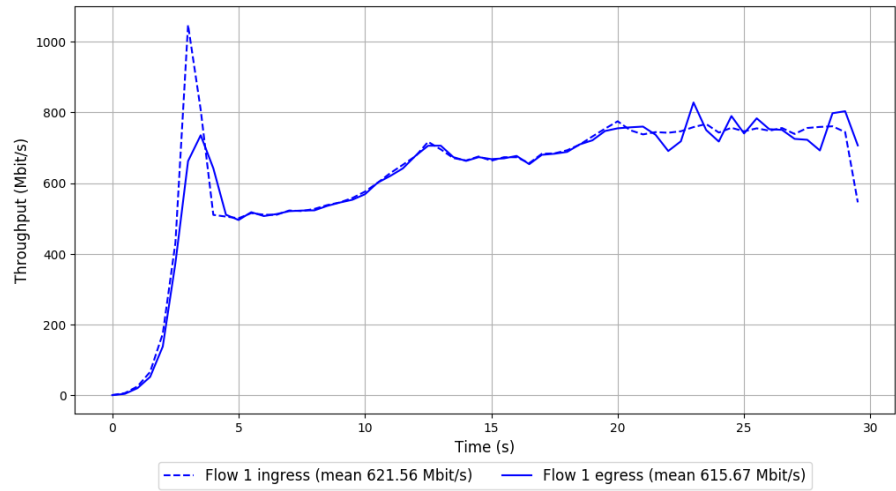
-- Flow 1:

Average throughput: 615.67 Mbit/s

95th percentile per-packet one-way delay: 173.570 ms

Loss rate: 0.95%

### Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-09-21 11:48:48

End at: 2017-09-21 11:49:18

# Below is generated by plot.py at 2017-09-21 13:47:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 582.98 Mbit/s

95th percentile per-packet one-way delay: 135.271 ms

Loss rate: 0.94%

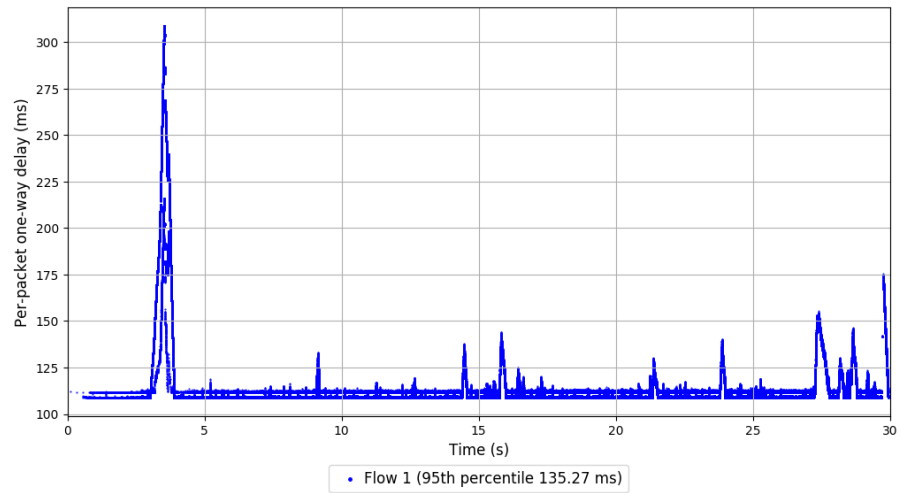
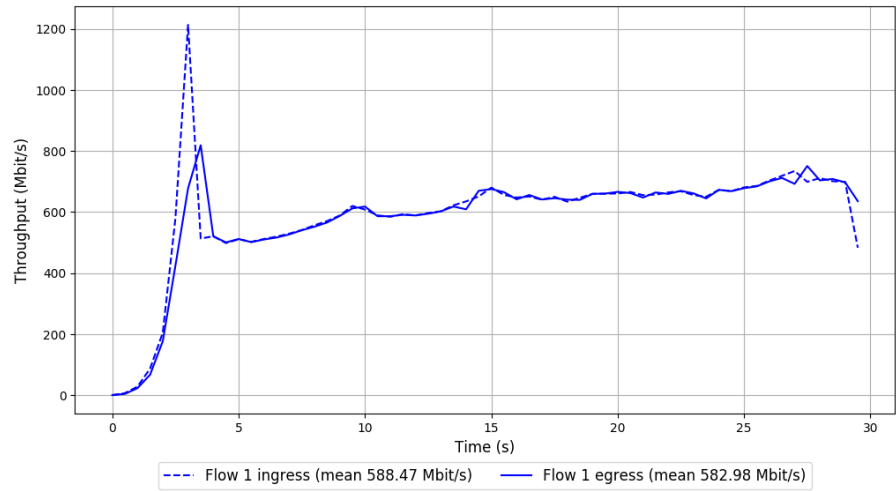
-- Flow 1:

Average throughput: 582.98 Mbit/s

95th percentile per-packet one-way delay: 135.271 ms

Loss rate: 0.94%

#### Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-09-21 11:59:28

End at: 2017-09-21 11:59:58

# Below is generated by plot.py at 2017-09-21 13:47:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 592.72 Mbit/s

95th percentile per-packet one-way delay: 137.722 ms

Loss rate: 1.50%

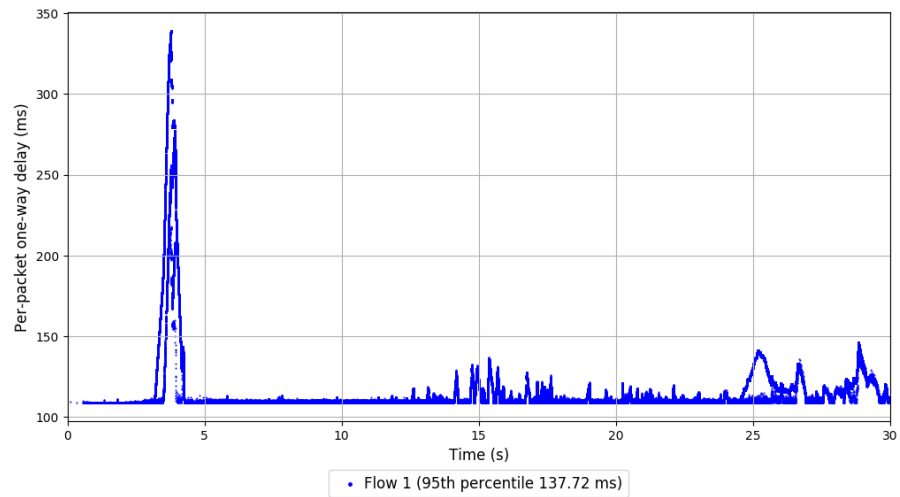
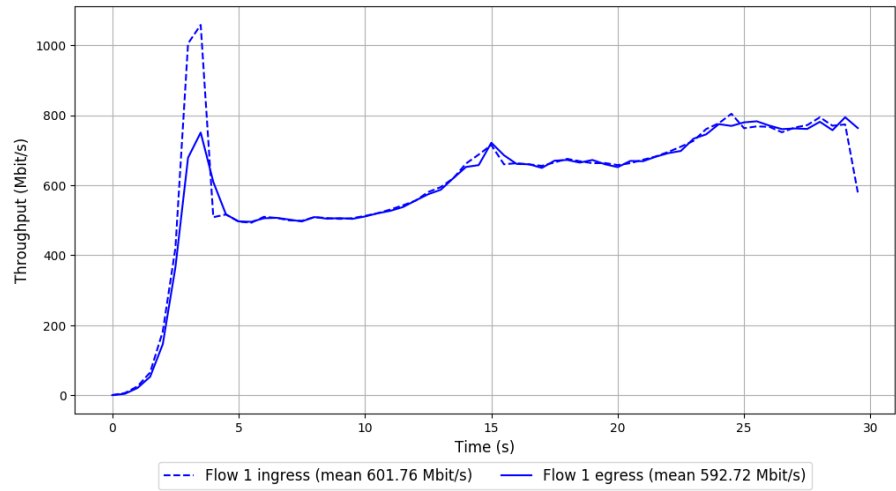
-- Flow 1:

Average throughput: 592.72 Mbit/s

95th percentile per-packet one-way delay: 137.722 ms

Loss rate: 1.50%

### Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-09-21 12:10:33

End at: 2017-09-21 12:11:03

# Below is generated by plot.py at 2017-09-21 13:47:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 576.25 Mbit/s

95th percentile per-packet one-way delay: 180.113 ms

Loss rate: 1.48%

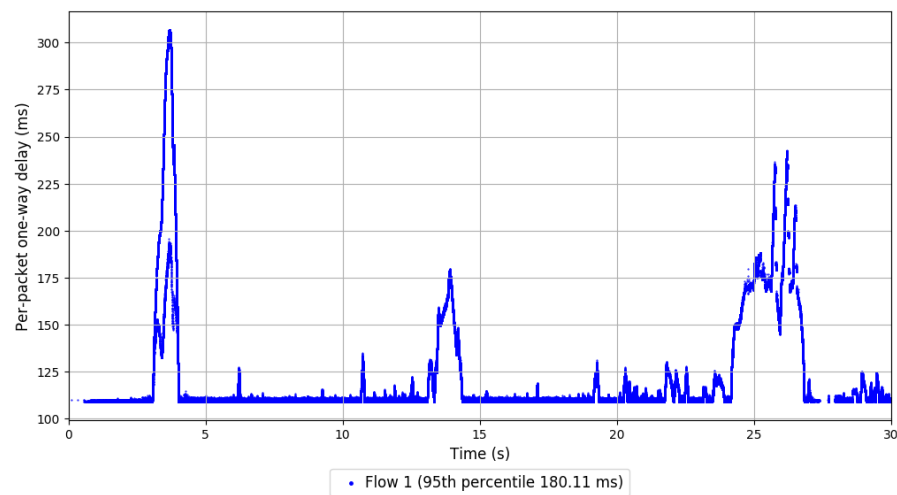
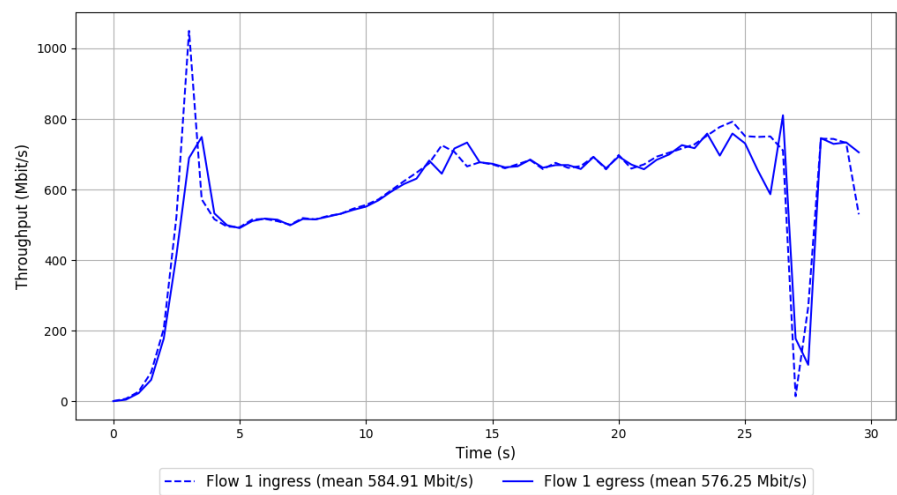
-- Flow 1:

Average throughput: 576.25 Mbit/s

95th percentile per-packet one-way delay: 180.113 ms

Loss rate: 1.48%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-09-21 12:21:42

End at: 2017-09-21 12:22:12

# Below is generated by plot.py at 2017-09-21 13:47:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 554.46 Mbit/s

95th percentile per-packet one-way delay: 130.279 ms

Loss rate: 1.17%

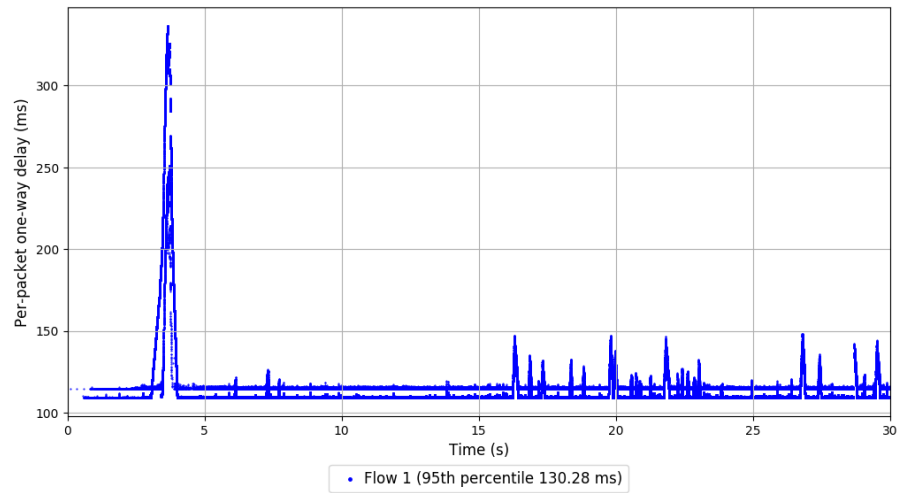
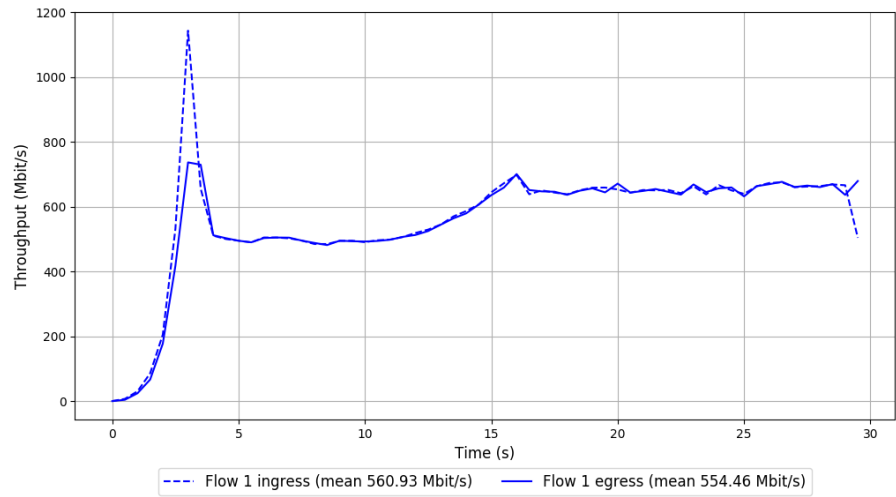
-- Flow 1:

Average throughput: 554.46 Mbit/s

95th percentile per-packet one-way delay: 130.279 ms

Loss rate: 1.17%

## Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-09-21 12:32:34

End at: 2017-09-21 12:33:04

# Below is generated by plot.py at 2017-09-21 13:47:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 601.91 Mbit/s

95th percentile per-packet one-way delay: 169.048 ms

Loss rate: 1.18%

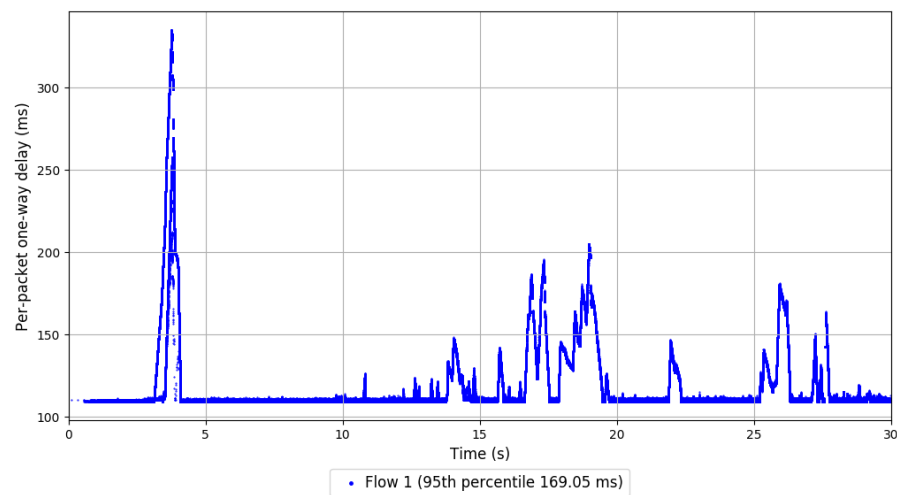
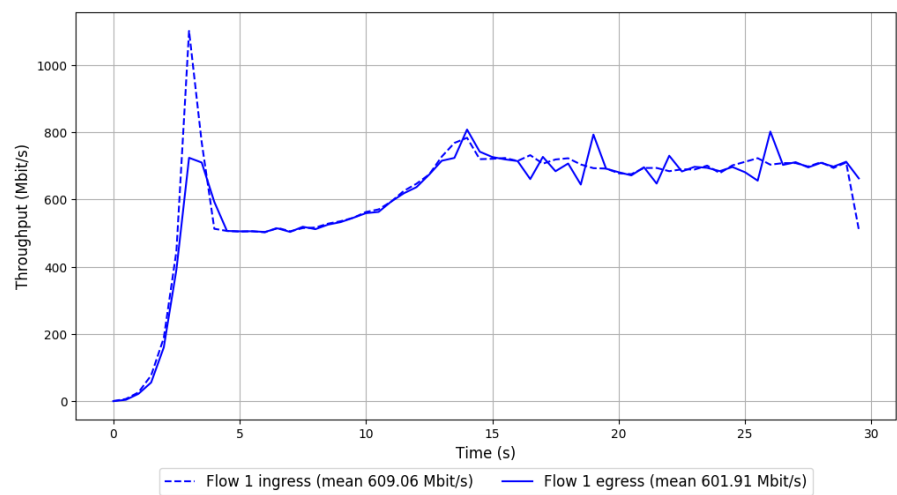
-- Flow 1:

Average throughput: 601.91 Mbit/s

95th percentile per-packet one-way delay: 169.048 ms

Loss rate: 1.18%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-09-21 12:43:47

End at: 2017-09-21 12:44:17

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 551.41 Mbit/s

95th percentile per-packet one-way delay: 160.143 ms

Loss rate: 0.61%

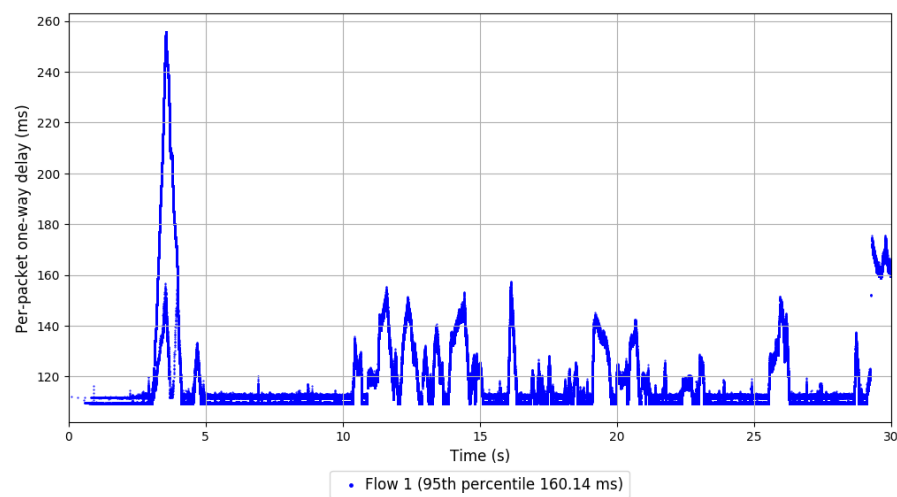
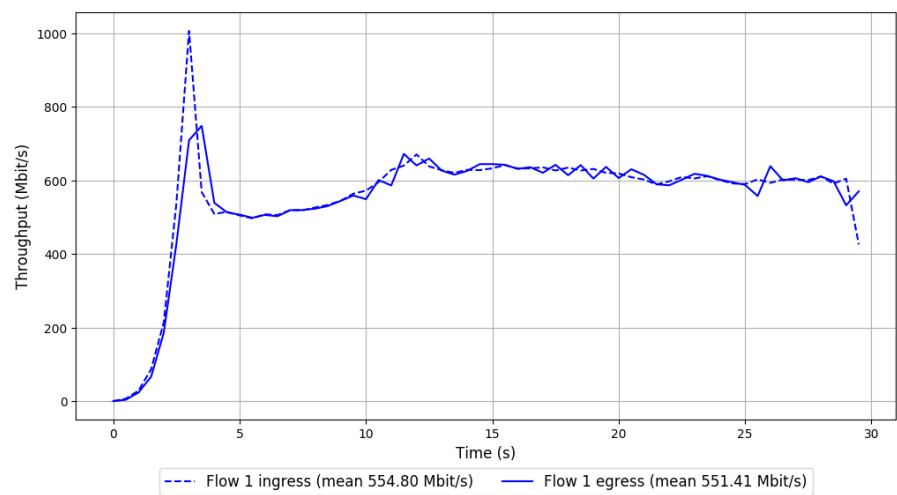
-- Flow 1:

Average throughput: 551.41 Mbit/s

95th percentile per-packet one-way delay: 160.143 ms

Loss rate: 0.61%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-09-21 12:55:10

End at: 2017-09-21 12:55:40

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 490.27 Mbit/s

95th percentile per-packet one-way delay: 138.671 ms

Loss rate: 1.29%

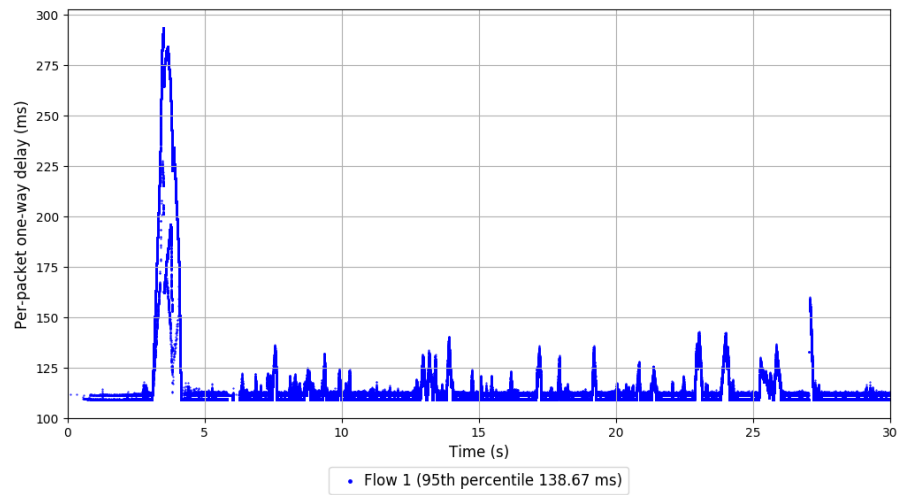
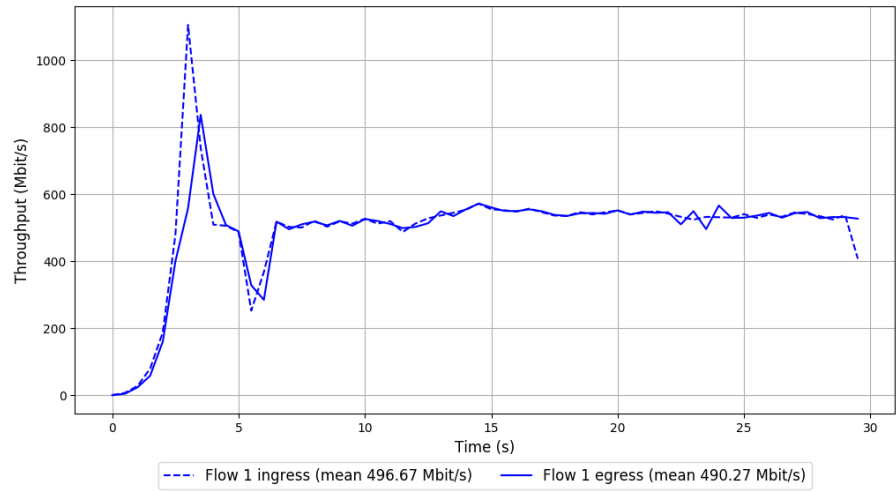
-- Flow 1:

Average throughput: 490.27 Mbit/s

95th percentile per-packet one-way delay: 138.671 ms

Loss rate: 1.29%

### Run 10: Report of PCC — Data Link

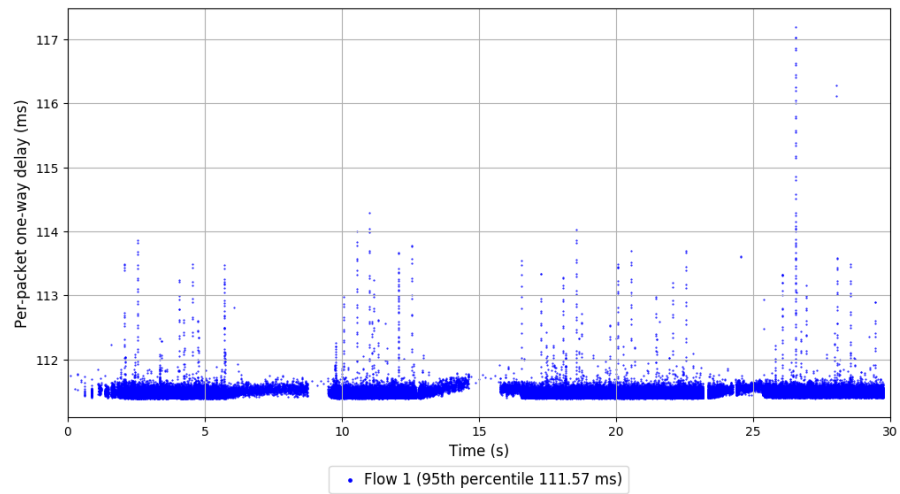
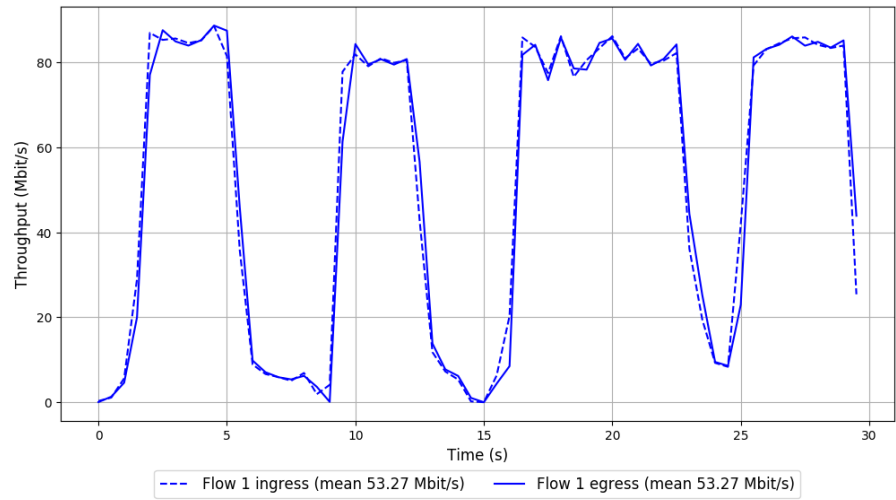


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-09-21 11:20:47
End at: 2017-09-21 11:21:17

# Below is generated by plot.py at 2017-09-21 13:55:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.27 Mbit/s
95th percentile per-packet one-way delay: 111.569 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 53.27 Mbit/s
95th percentile per-packet one-way delay: 111.569 ms
Loss rate: 0.01%
```

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



Run 2: Statistics of QUIC Cubic

Start at: 2017-09-21 11:31:37

End at: 2017-09-21 11:32:07

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 48.52 Mbit/s

95th percentile per-packet one-way delay: 109.651 ms

Loss rate: 0.00%

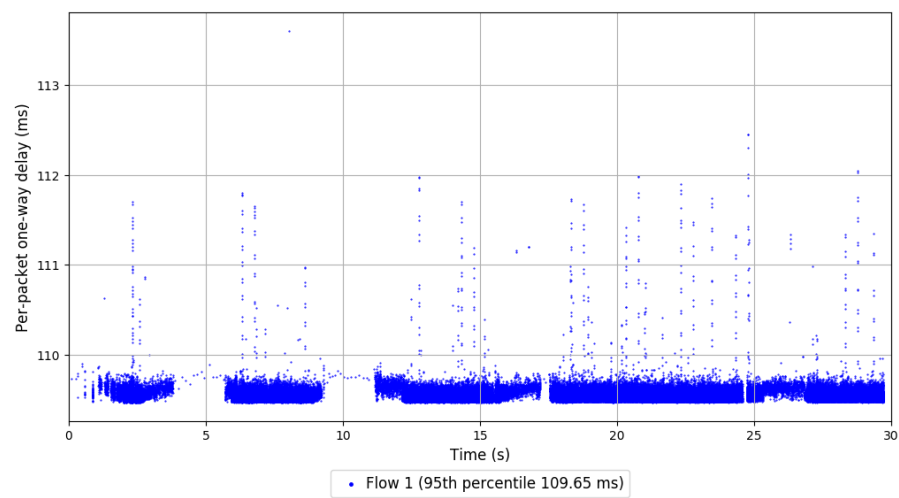
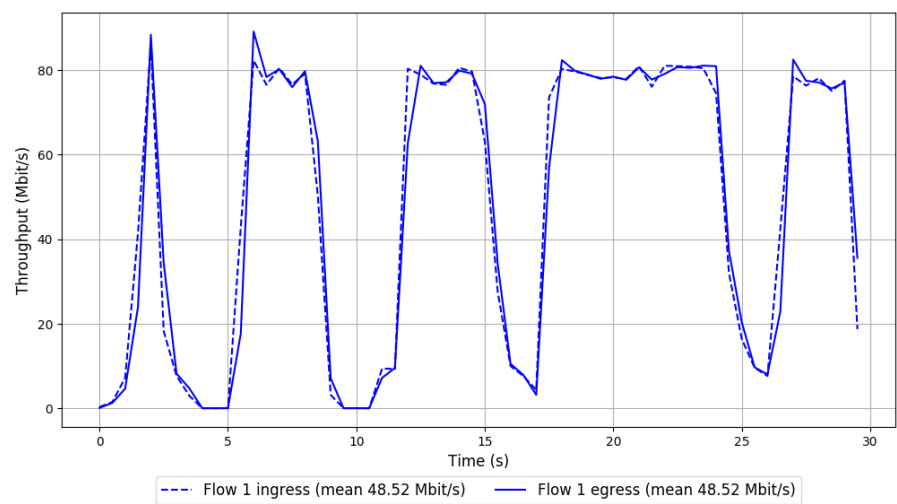
-- Flow 1:

Average throughput: 48.52 Mbit/s

95th percentile per-packet one-way delay: 109.651 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-09-21 11:42:23

End at: 2017-09-21 11:42:53

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 49.07 Mbit/s

95th percentile per-packet one-way delay: 109.497 ms

Loss rate: 0.00%

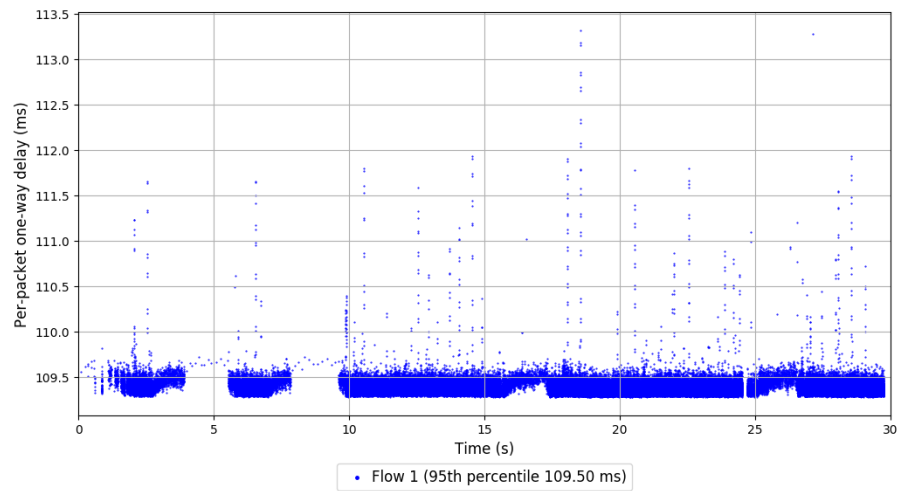
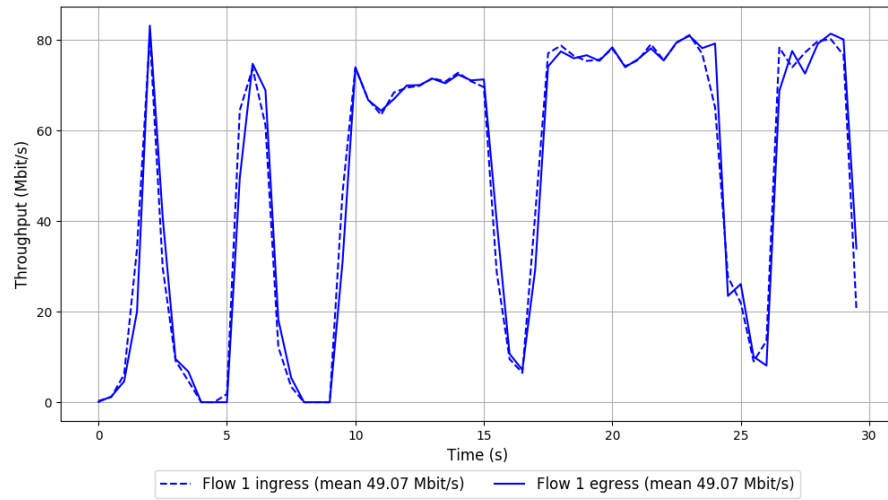
-- Flow 1:

Average throughput: 49.07 Mbit/s

95th percentile per-packet one-way delay: 109.497 ms

Loss rate: 0.00%

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



Run 4: Statistics of QUIC Cubic

Start at: 2017-09-21 11:53:06

End at: 2017-09-21 11:53:36

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 49.26 Mbit/s

95th percentile per-packet one-way delay: 109.096 ms

Loss rate: 0.00%

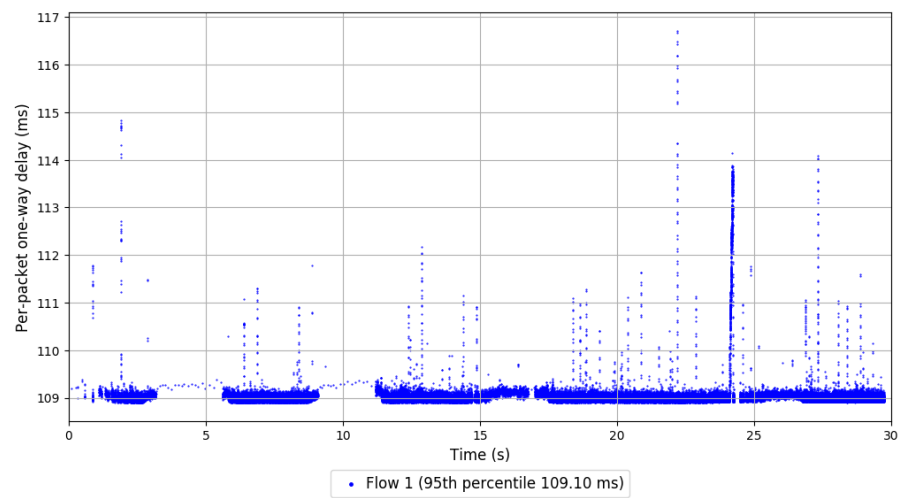
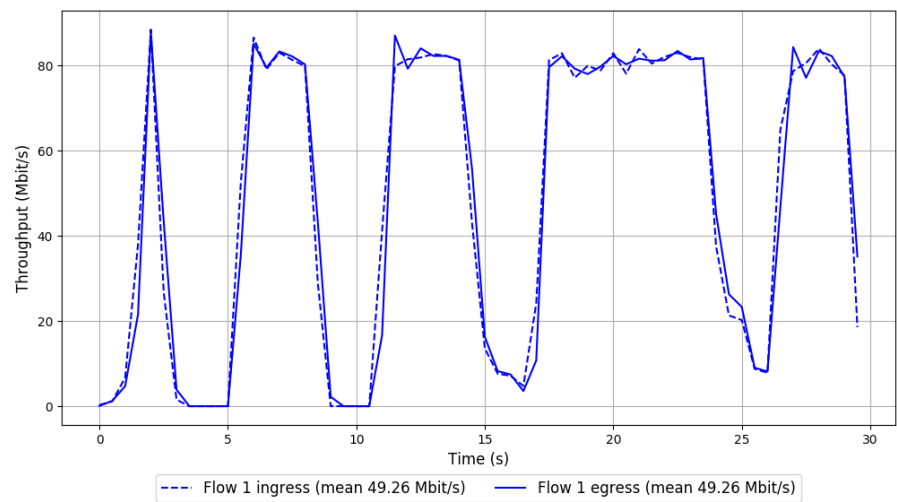
-- Flow 1:

Average throughput: 49.26 Mbit/s

95th percentile per-packet one-way delay: 109.096 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-09-21 12:04:07

End at: 2017-09-21 12:04:37

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.19 Mbit/s

95th percentile per-packet one-way delay: 109.190 ms

Loss rate: 0.00%

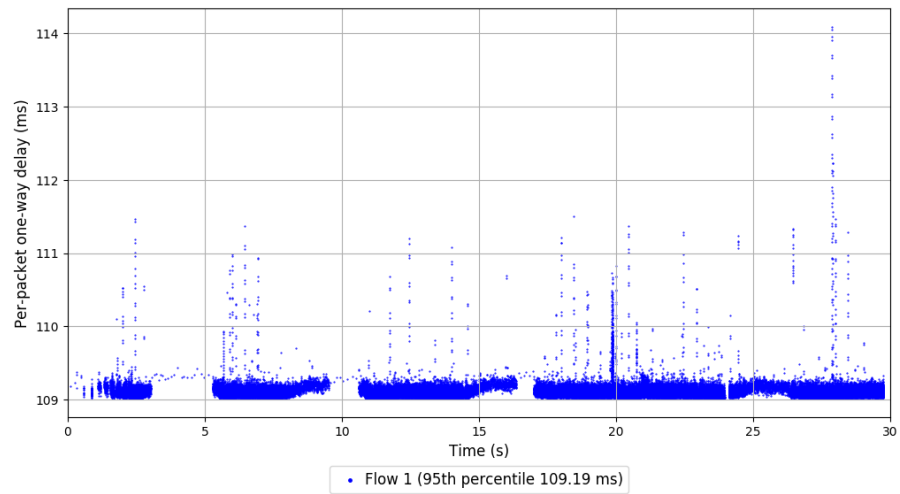
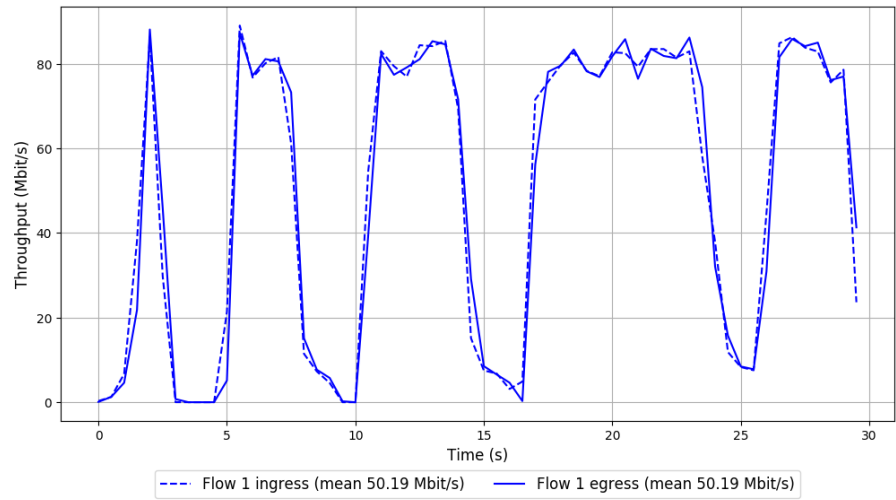
-- Flow 1:

Average throughput: 50.19 Mbit/s

95th percentile per-packet one-way delay: 109.190 ms

Loss rate: 0.00%

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

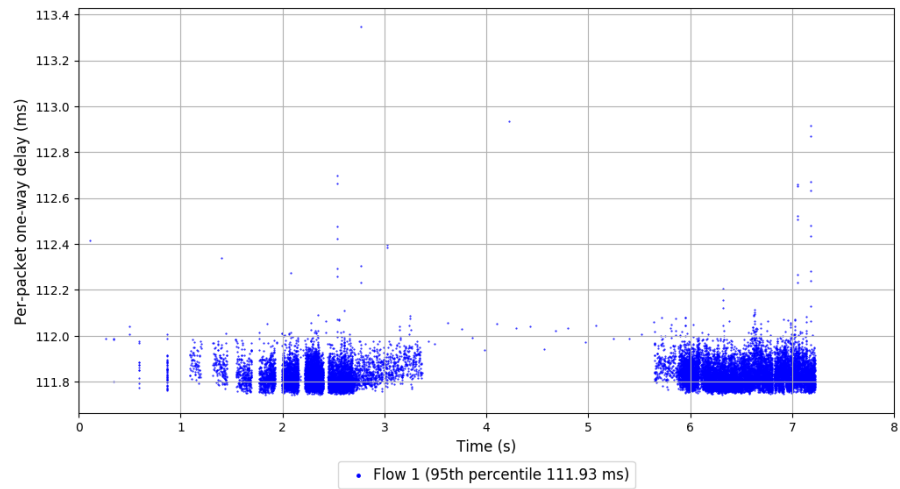
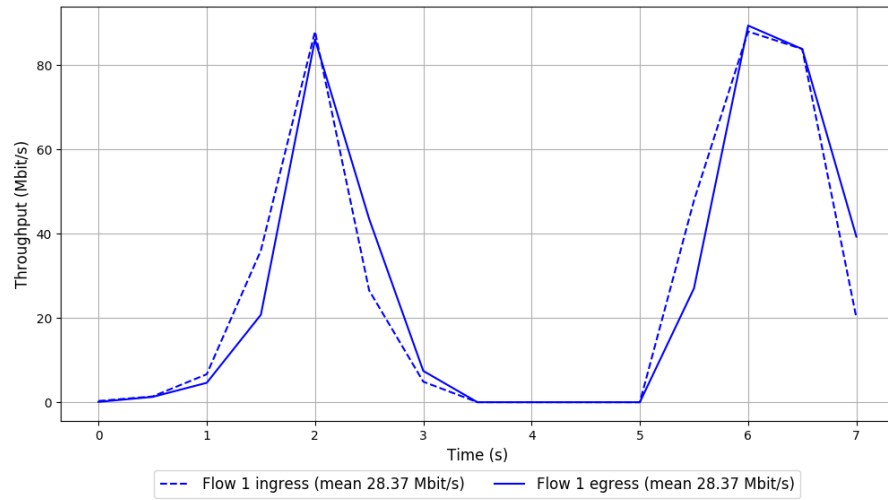


Run 6: Statistics of QUIC Cubic

Start at: 2017-09-21 12:15:20

End at: 2017-09-21 12:15:50

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



Run 7: Statistics of QUIC Cubic

Start at: 2017-09-21 12:26:10

End at: 2017-09-21 12:26:40

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 52.76 Mbit/s

95th percentile per-packet one-way delay: 112.379 ms

Loss rate: 0.01%

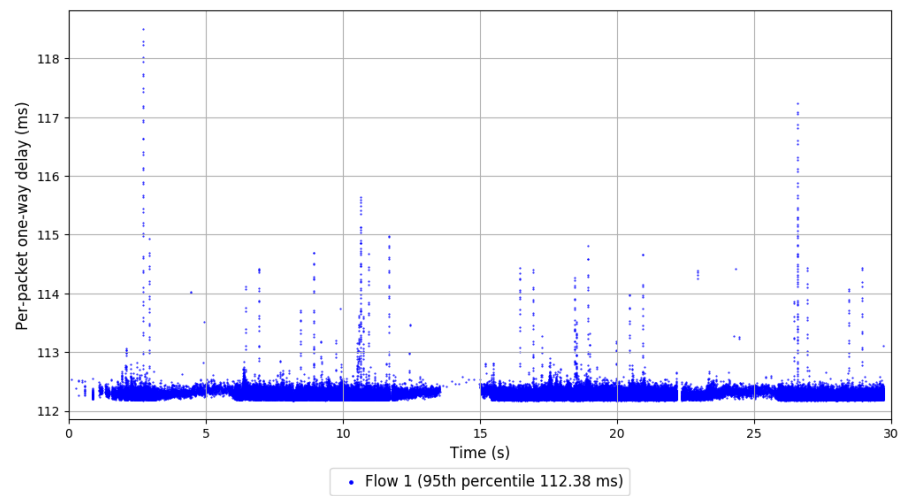
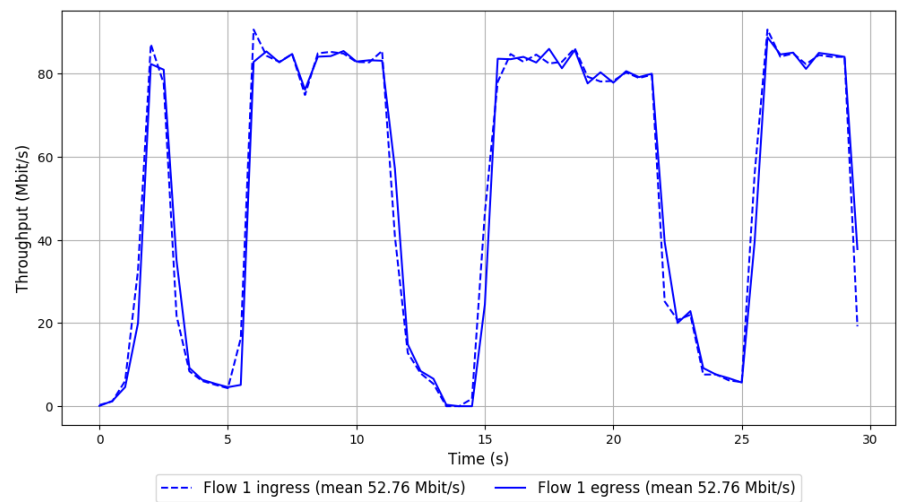
-- Flow 1:

Average throughput: 52.76 Mbit/s

95th percentile per-packet one-way delay: 112.379 ms

Loss rate: 0.01%

Run 7: Report of QUIC Cubic — Data Link

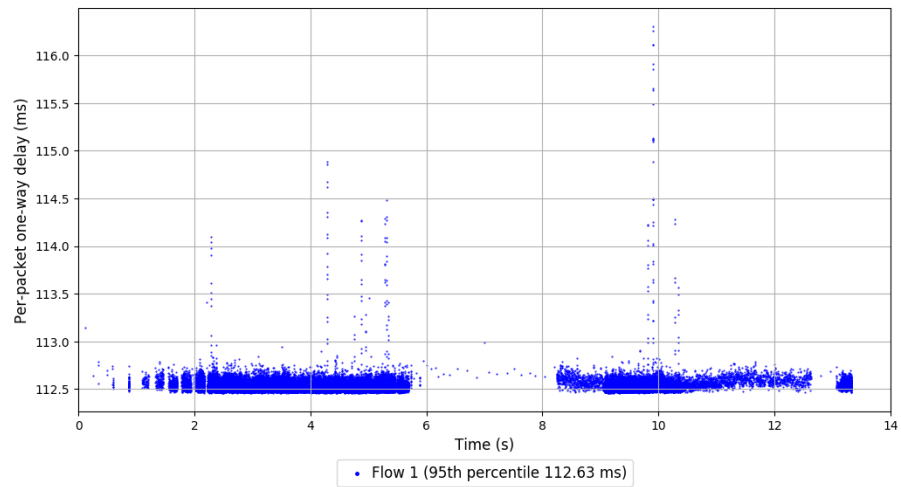
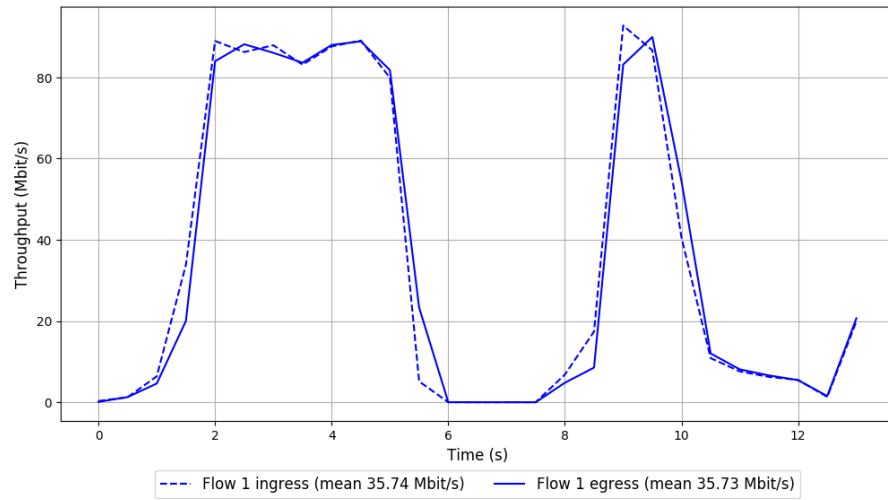


Run 8: Statistics of QUIC Cubic

Start at: 2017-09-21 12:37:25

End at: 2017-09-21 12:37:55

# Run 8: Report of QUIC Cubic — Data Link

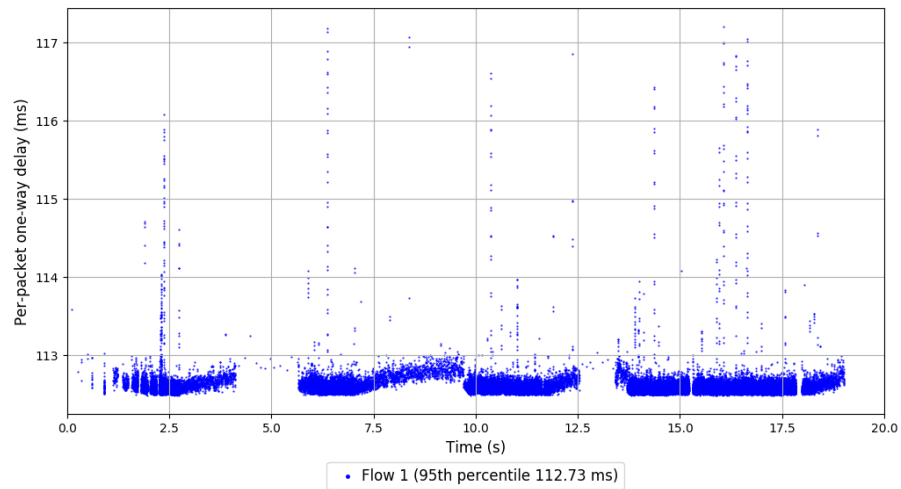
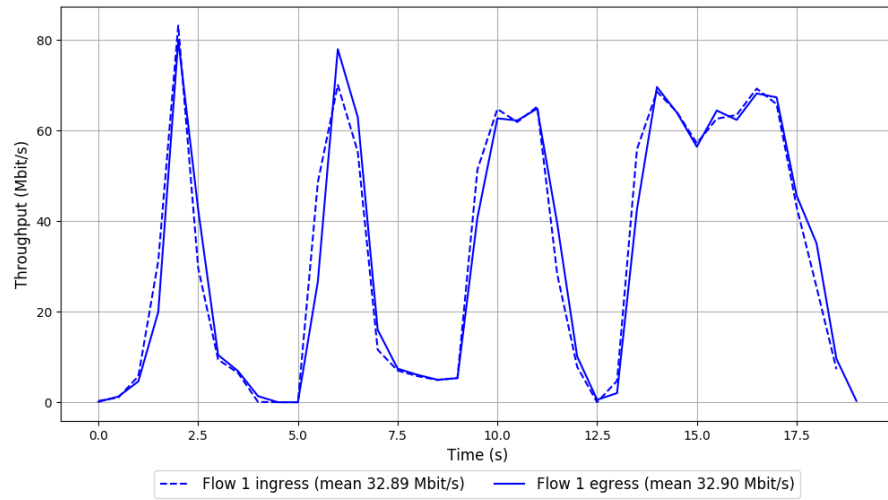


Run 9: Statistics of QUIC Cubic

Start at: 2017-09-21 12:48:46

End at: 2017-09-21 12:49:16

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



Run 10: Statistics of QUIC Cubic

Start at: 2017-09-21 12:59:44

End at: 2017-09-21 13:00:14

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 40.84 Mbit/s

95th percentile per-packet one-way delay: 112.140 ms

Loss rate: 0.00%

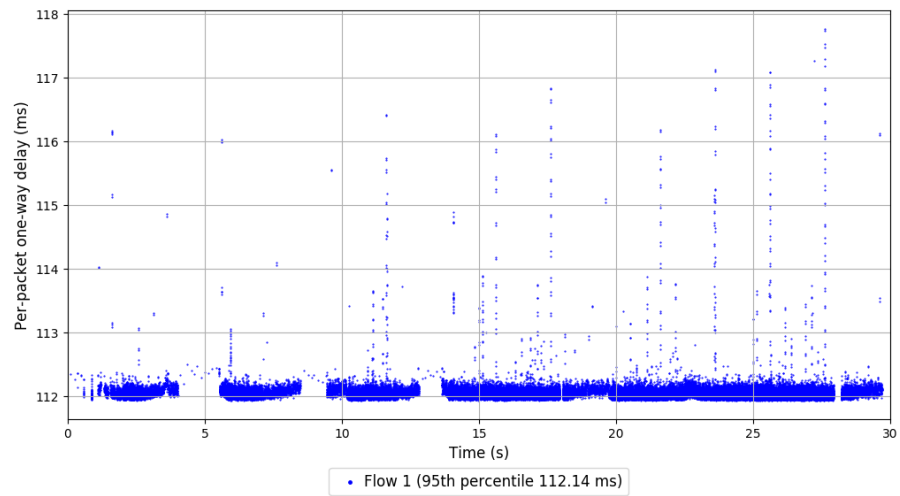
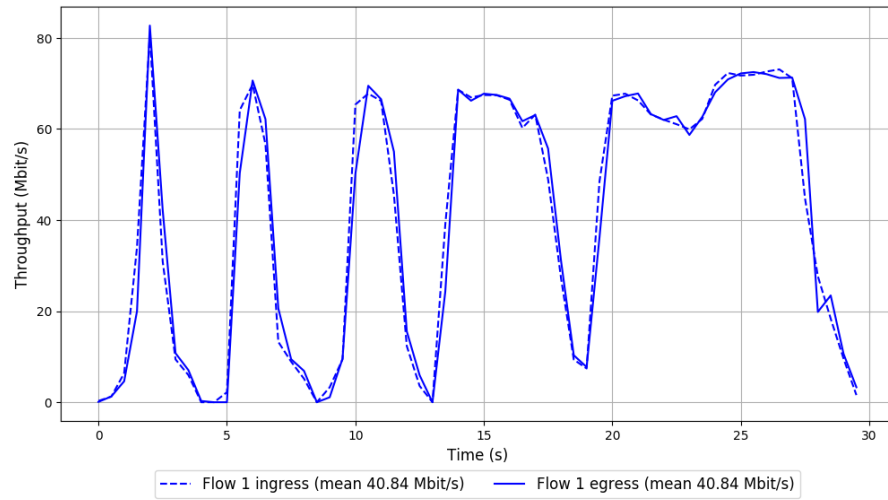
-- Flow 1:

Average throughput: 40.84 Mbit/s

95th percentile per-packet one-way delay: 112.140 ms

Loss rate: 0.00%

# Run 10: Report of QUIC Cubic — Data Link

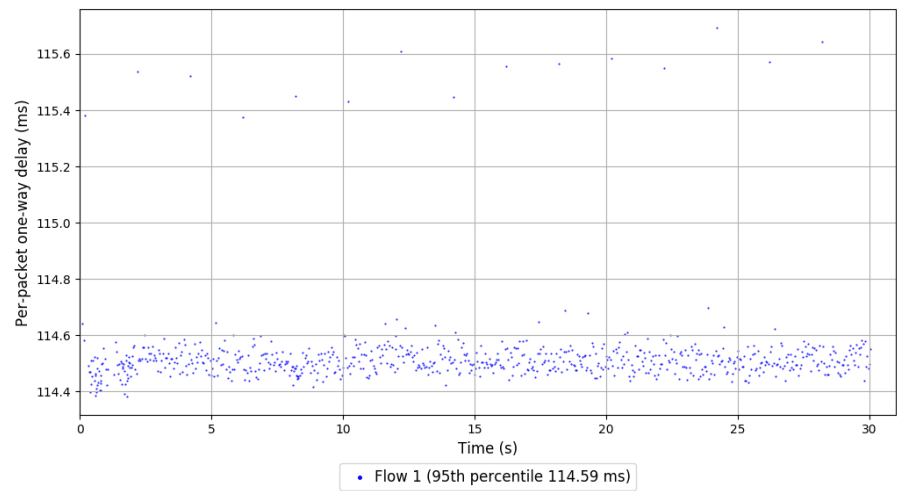
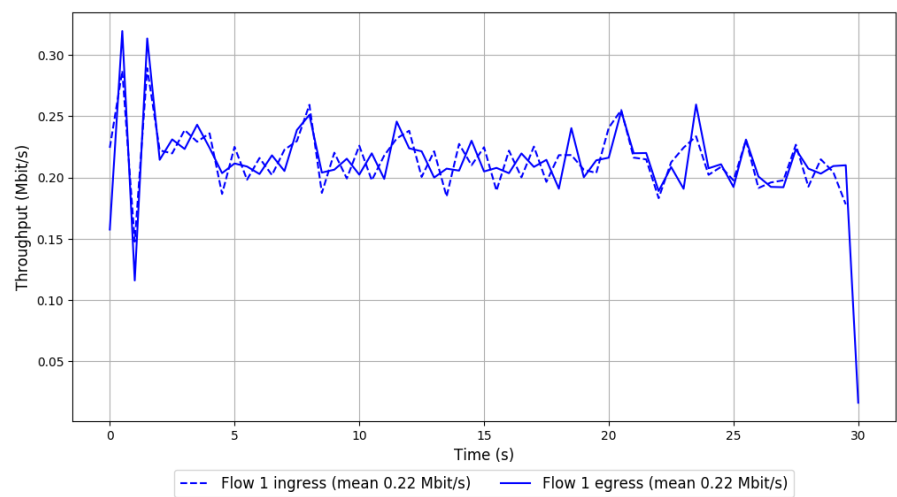


```
Run 1: Statistics of SCReAM

Start at: 2017-09-21 11:11:49
End at: 2017-09-21 11:12:19

# Below is generated by plot.py at 2017-09-21 13:55:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.589 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.589 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

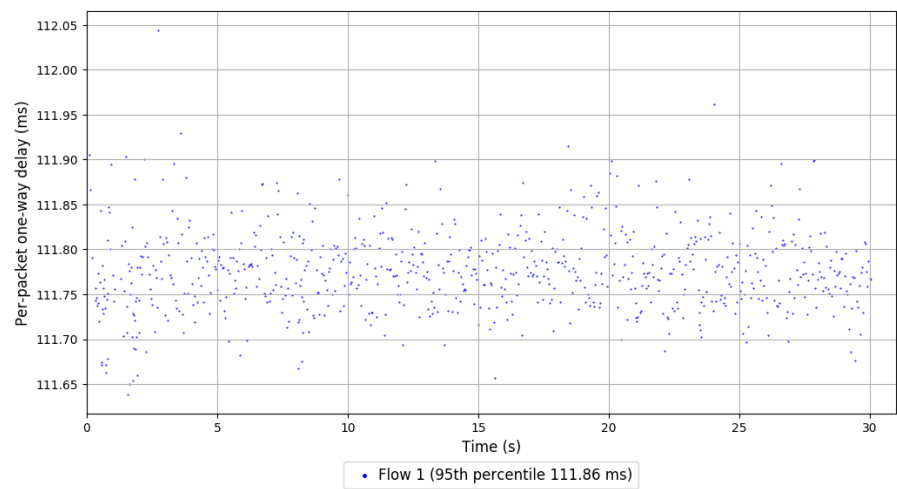
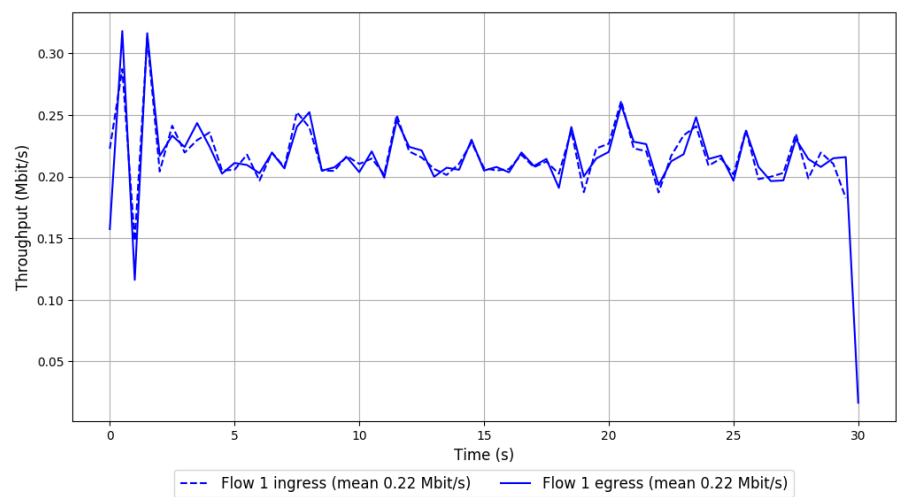


```
Run 2: Statistics of SCReAM

Start at: 2017-09-21 11:22:54
End at: 2017-09-21 11:23:24

# Below is generated by plot.py at 2017-09-21 13:55:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.860 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.860 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-09-21 11:33:44

End at: 2017-09-21 11:34:14

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.031 ms

Loss rate: 0.00%

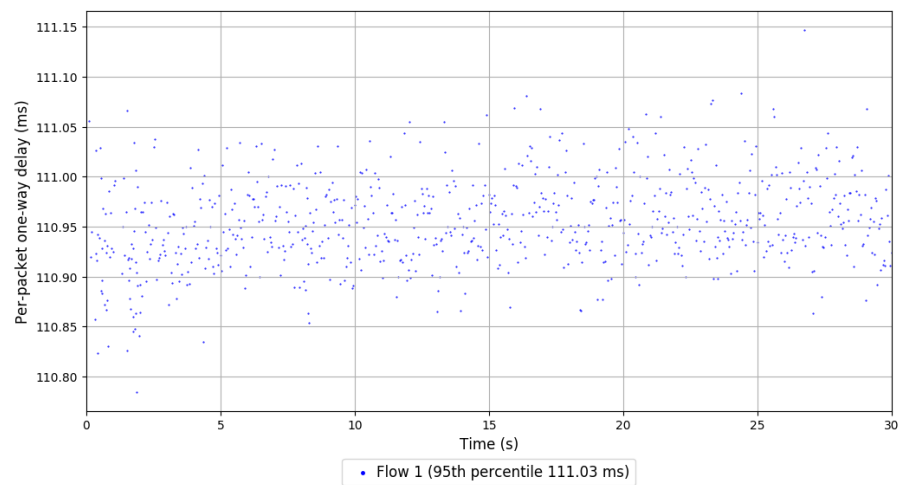
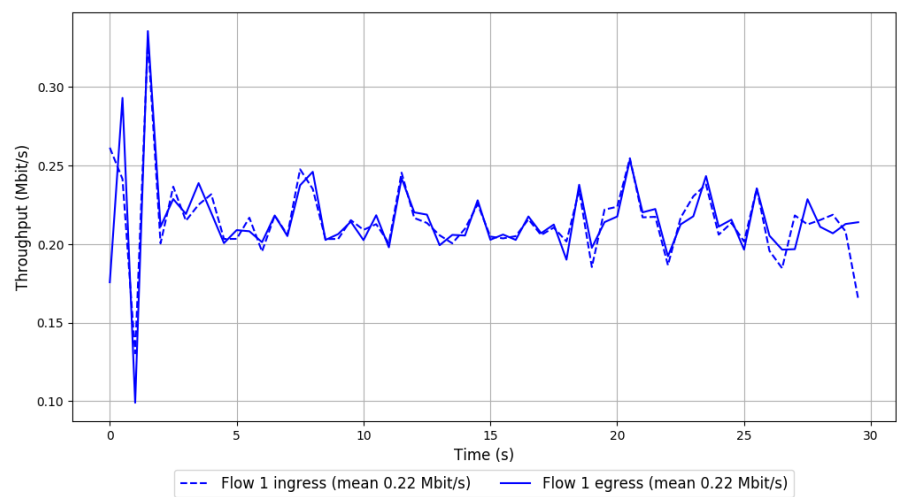
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.031 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-09-21 11:44:30

End at: 2017-09-21 11:45:00

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.885 ms

Loss rate: 0.00%

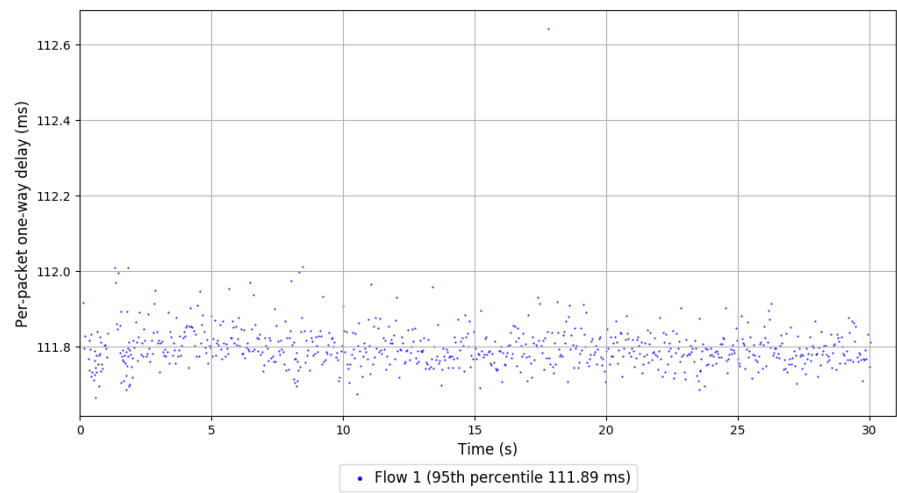
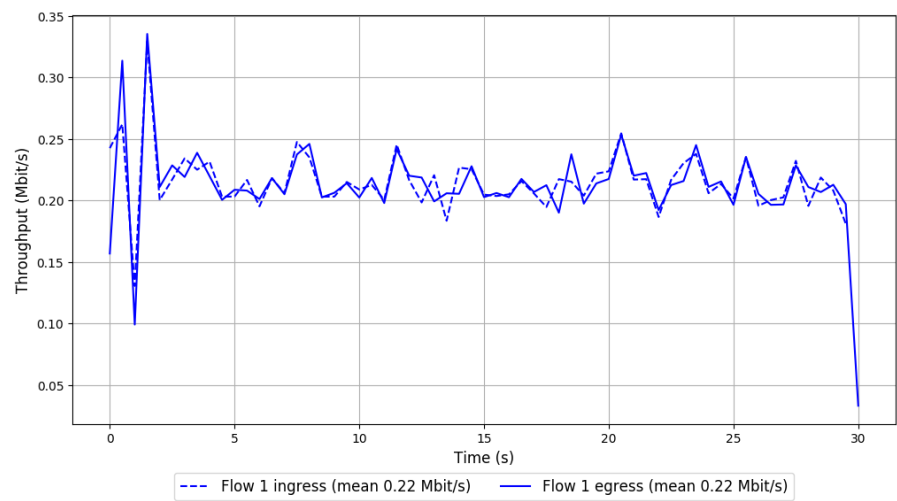
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.885 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-09-21 11:55:14

End at: 2017-09-21 11:55:44

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.872 ms

Loss rate: 0.00%

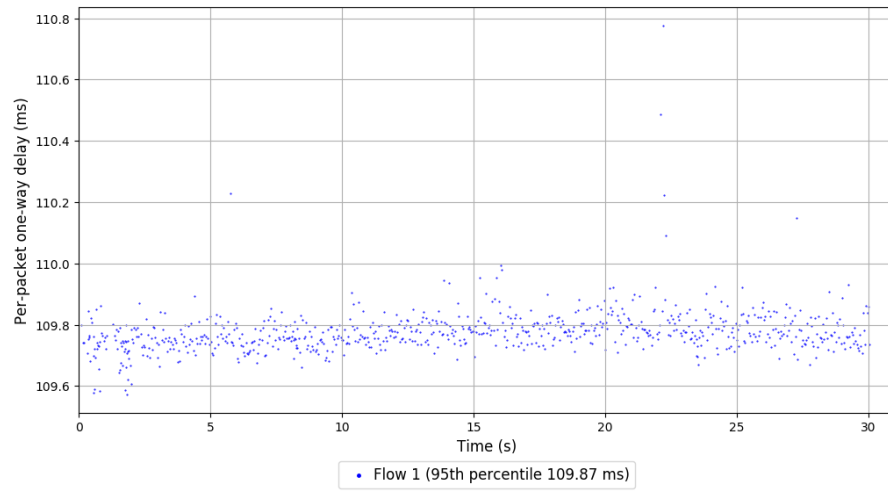
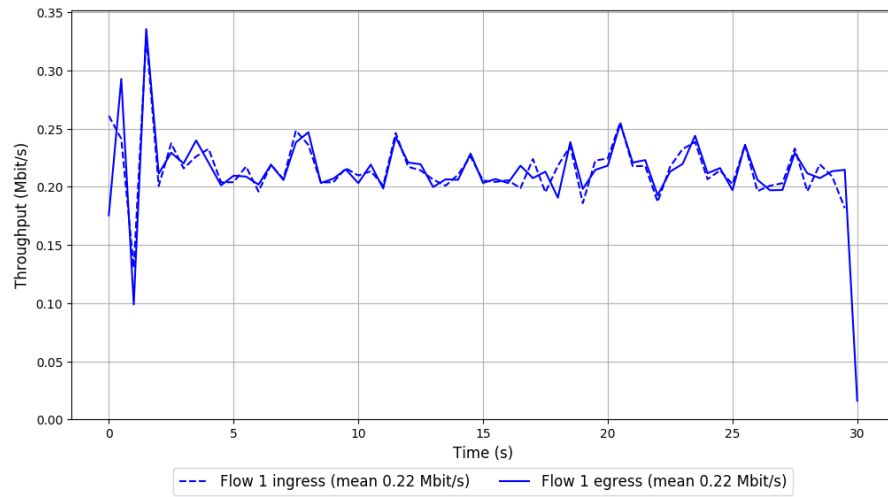
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.872 ms

Loss rate: 0.00%

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



Run 6: Statistics of SCReAM

Start at: 2017-09-21 12:06:15

End at: 2017-09-21 12:06:45

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.424 ms

Loss rate: 0.00%

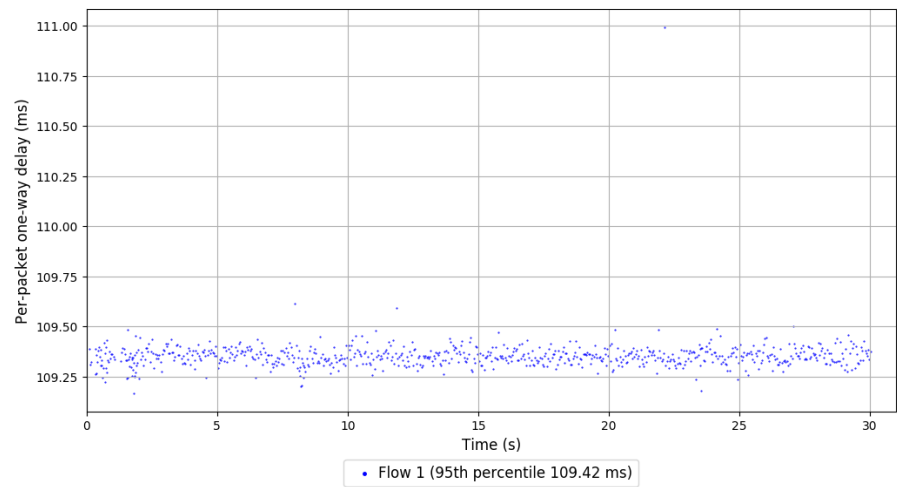
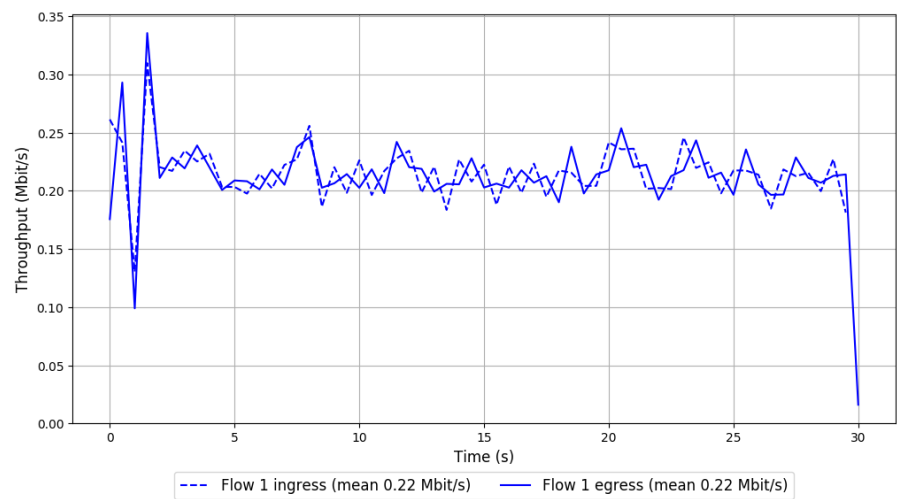
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.424 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-09-21 12:17:26

End at: 2017-09-21 12:17:56

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.495 ms

Loss rate: 0.00%

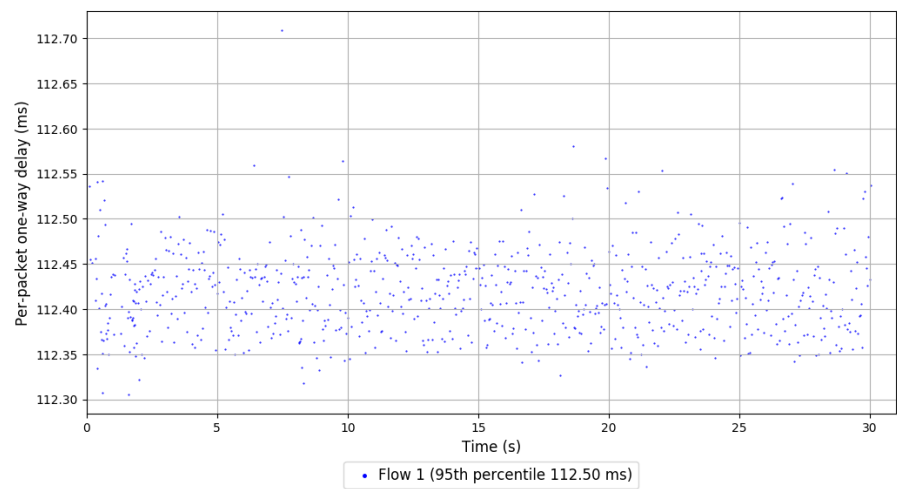
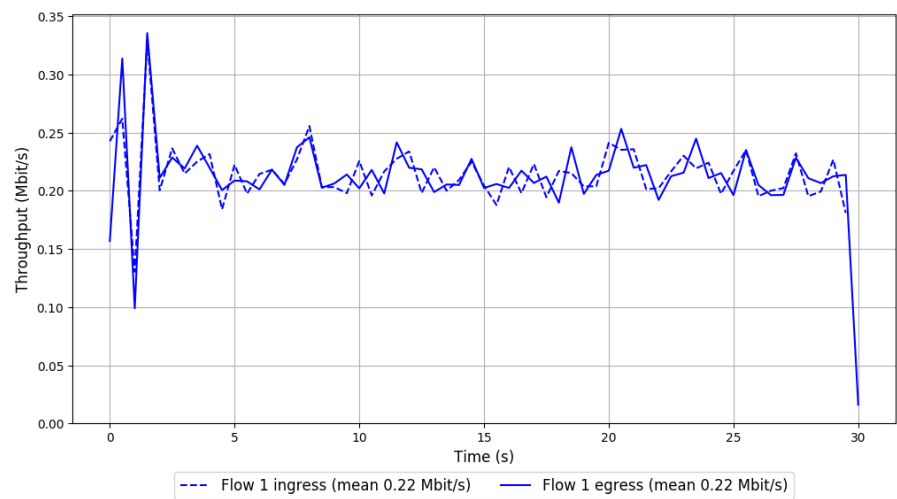
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.495 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-09-21 12:28:19

End at: 2017-09-21 12:28:49

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.163 ms

Loss rate: 0.00%

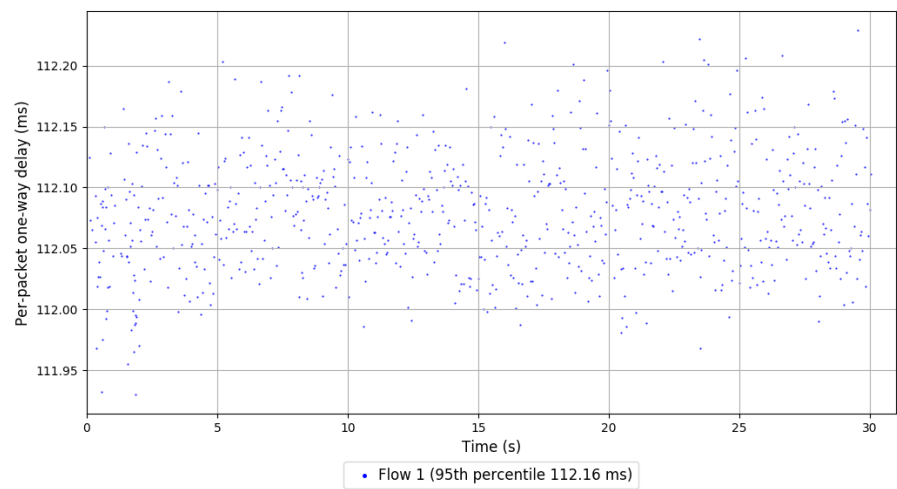
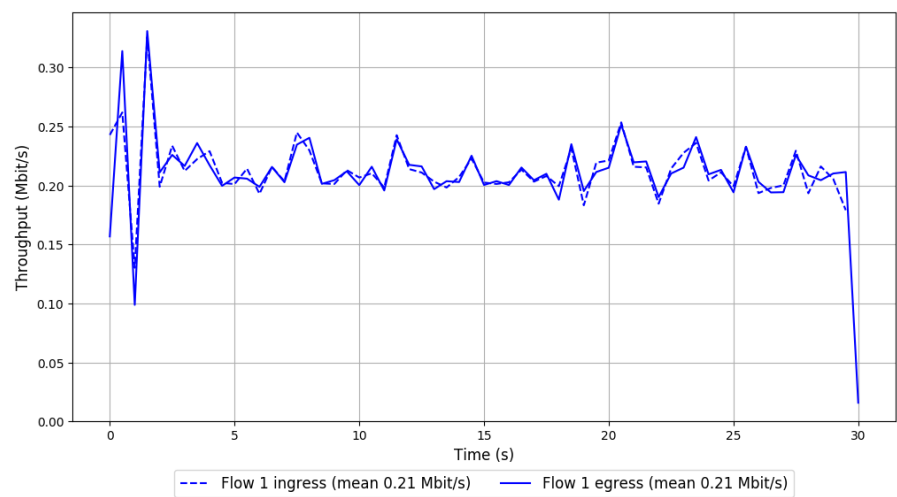
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.163 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-09-21 12:39:31

End at: 2017-09-21 12:40:01

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.792 ms

Loss rate: 0.00%

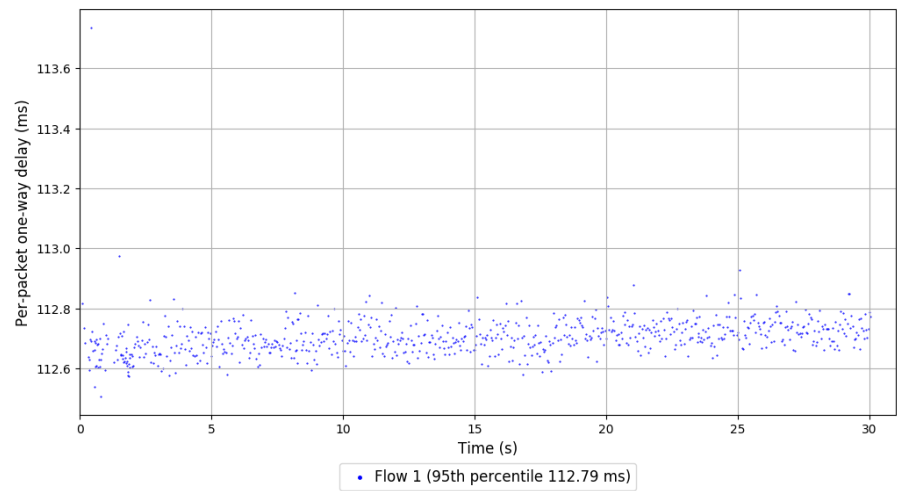
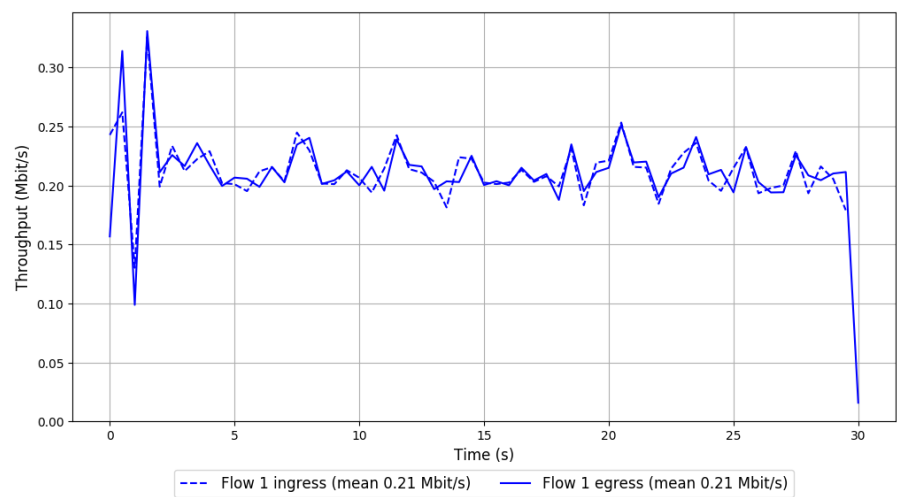
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.792 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-09-21 12:50:53

End at: 2017-09-21 12:51:23

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.589 ms

Loss rate: 0.00%

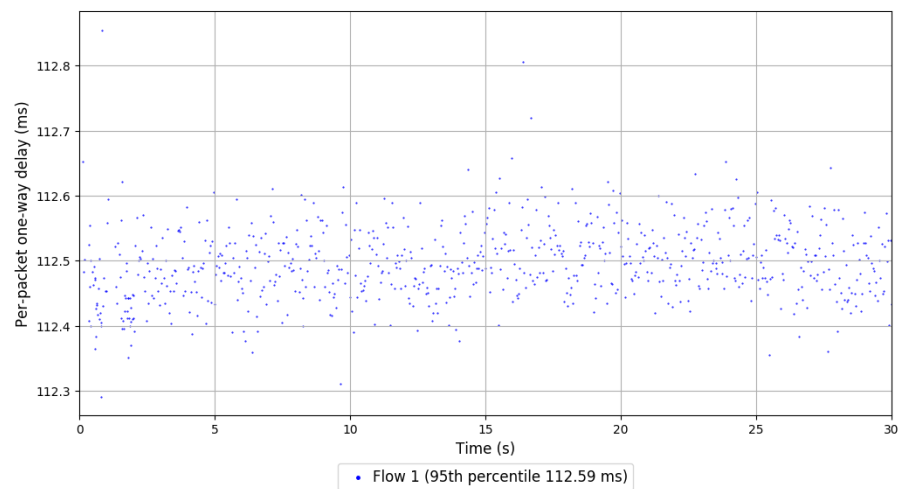
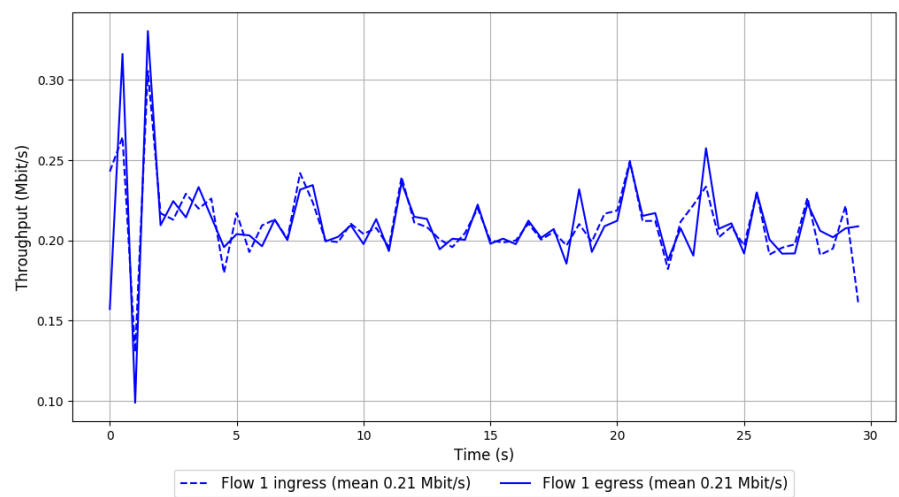
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.589 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

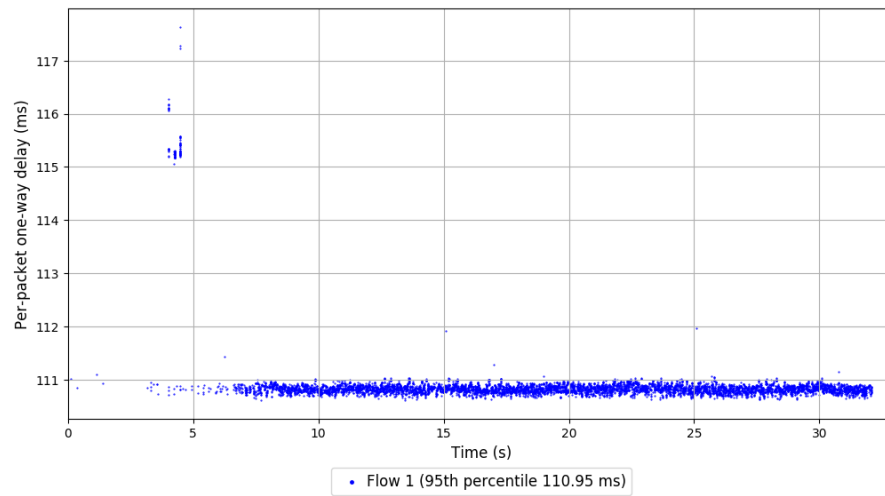
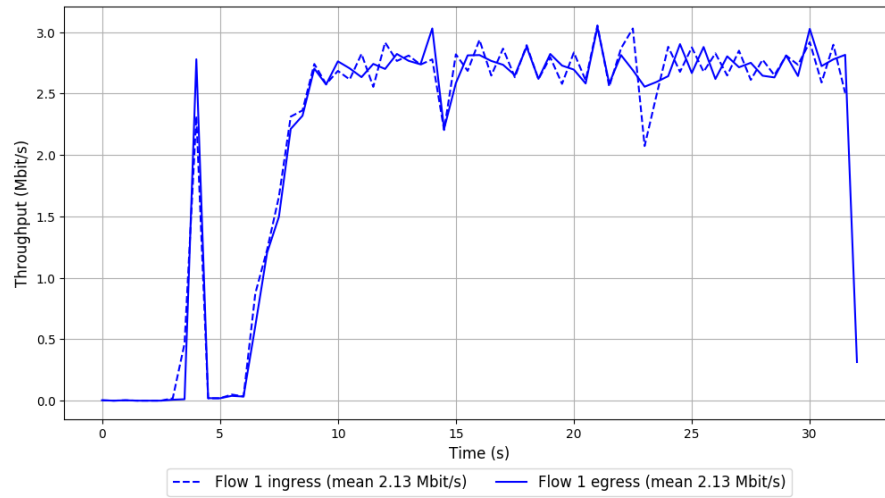


```
Run 1: Statistics of WebRTC media

Start at: 2017-09-21 11:11:08
End at: 2017-09-21 11:11:38

# Below is generated by plot.py at 2017-09-21 13:55:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 110.951 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 110.951 ms
Loss rate: 0.00%
```

# Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-09-21 11:22:13

End at: 2017-09-21 11:22:43

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 111.603 ms

Loss rate: 0.00%

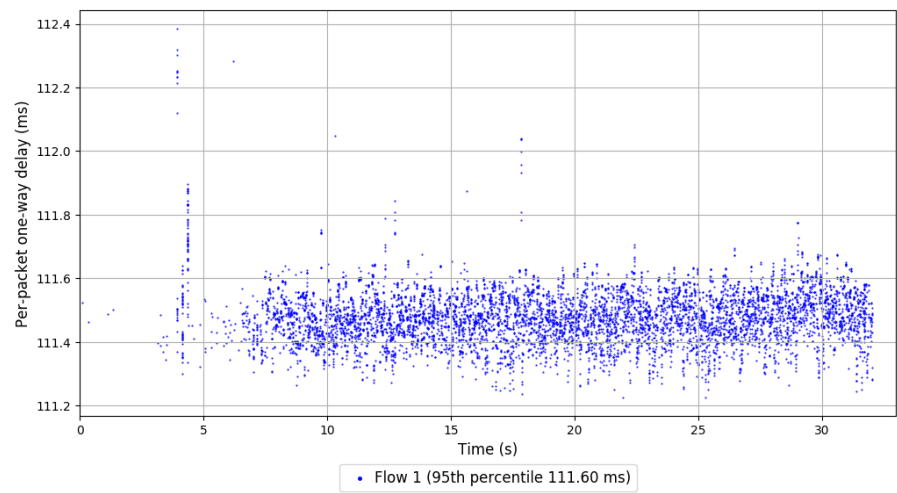
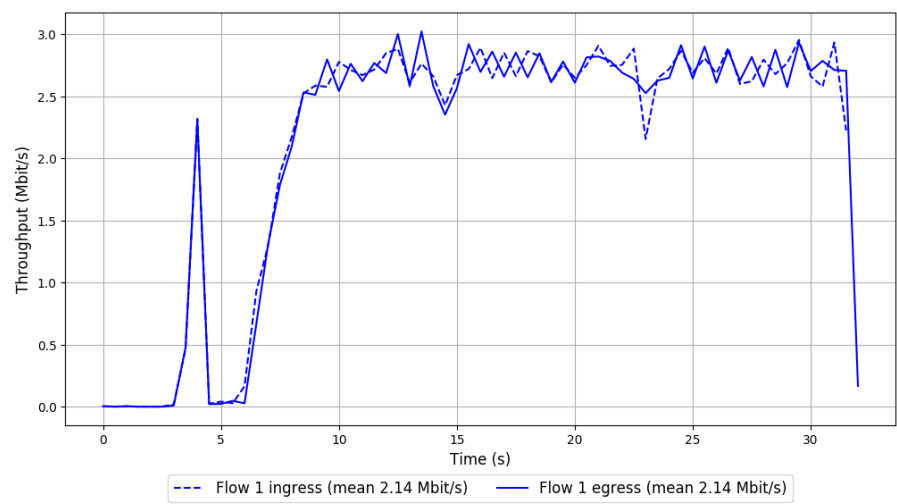
-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 111.603 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-09-21 11:33:03

End at: 2017-09-21 11:33:33

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 111.890 ms

Loss rate: 0.00%

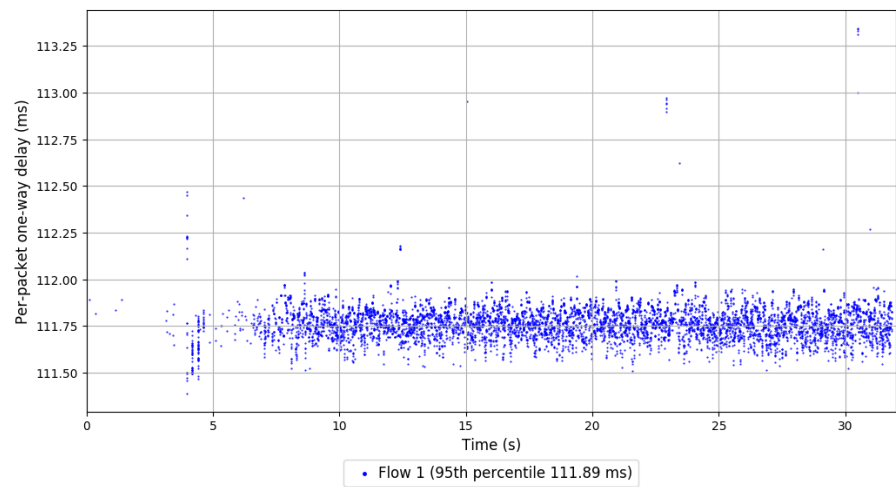
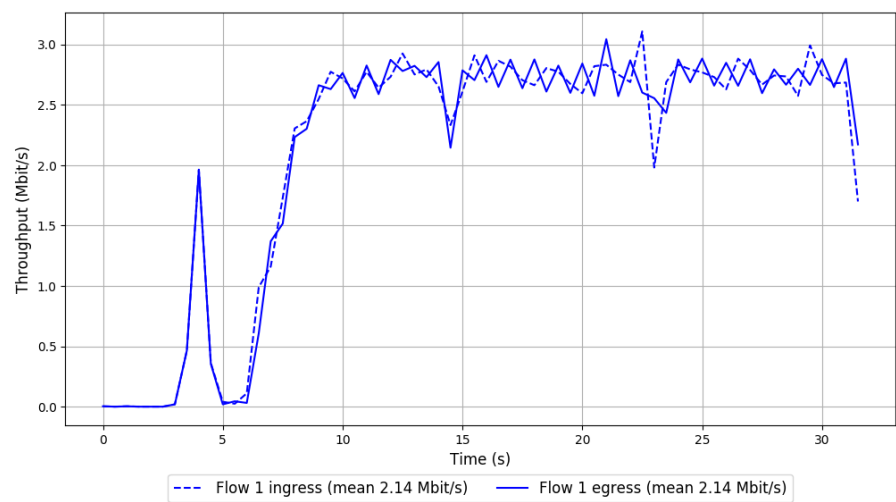
-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 111.890 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-09-21 11:43:49

End at: 2017-09-21 11:44:19

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 111.346 ms

Loss rate: 0.00%

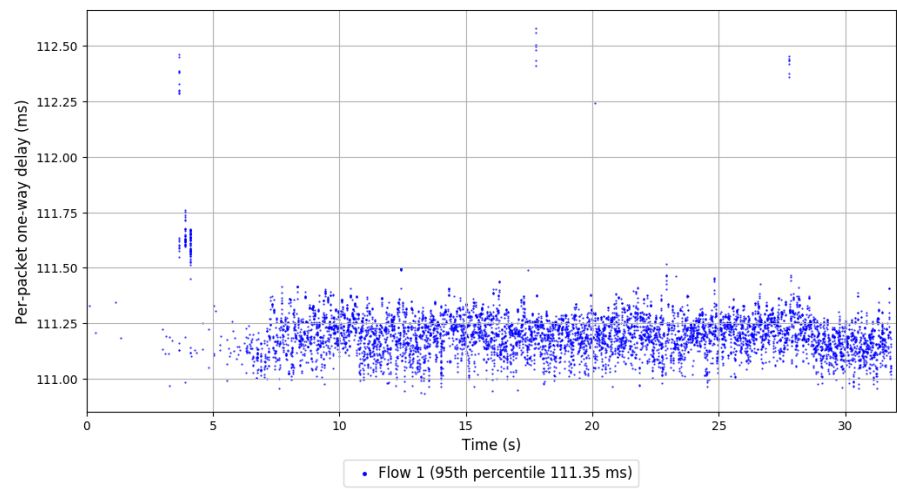
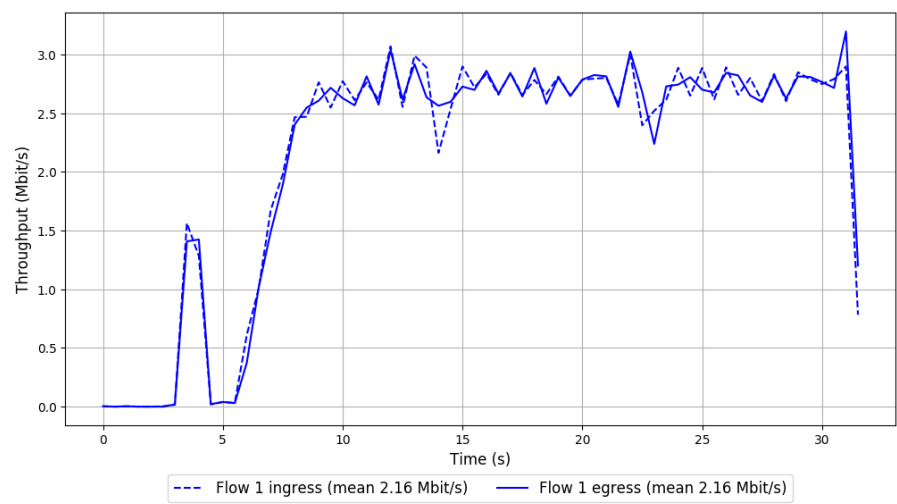
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 111.346 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-09-21 11:54:33

End at: 2017-09-21 11:55:03

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 112.560 ms

Loss rate: 0.00%

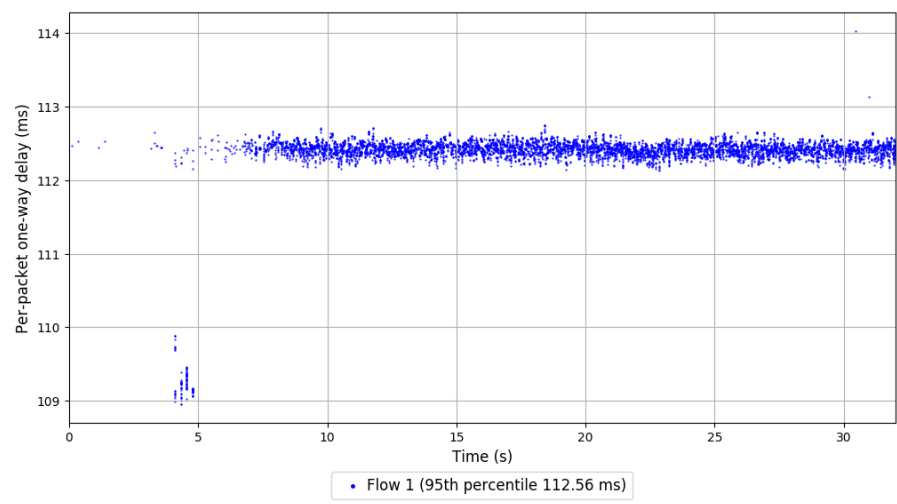
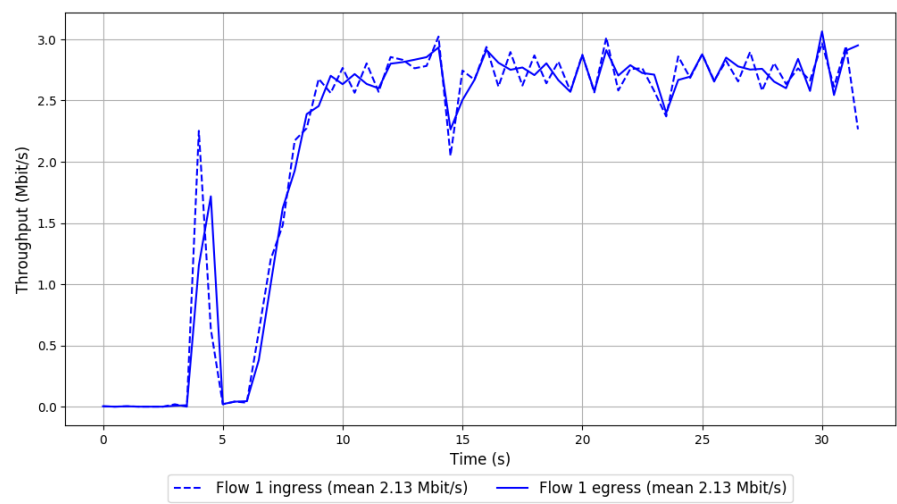
-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 112.560 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-09-21 12:05:34

End at: 2017-09-21 12:06:04

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 112.051 ms

Loss rate: 0.00%

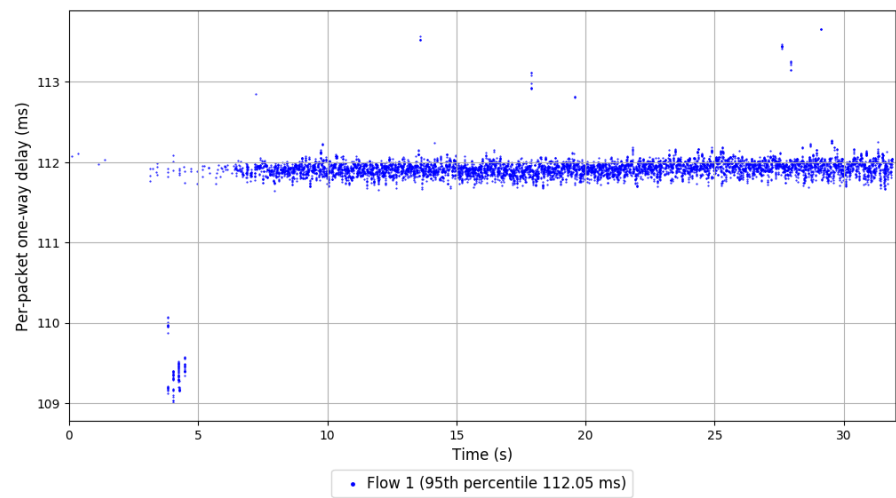
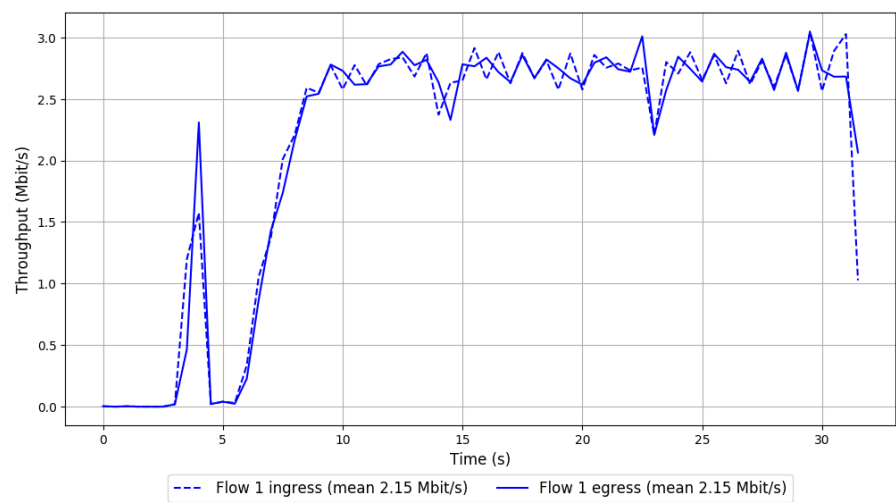
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 112.051 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-09-21 12:16:45

End at: 2017-09-21 12:17:15

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 109.573 ms

Loss rate: 0.00%

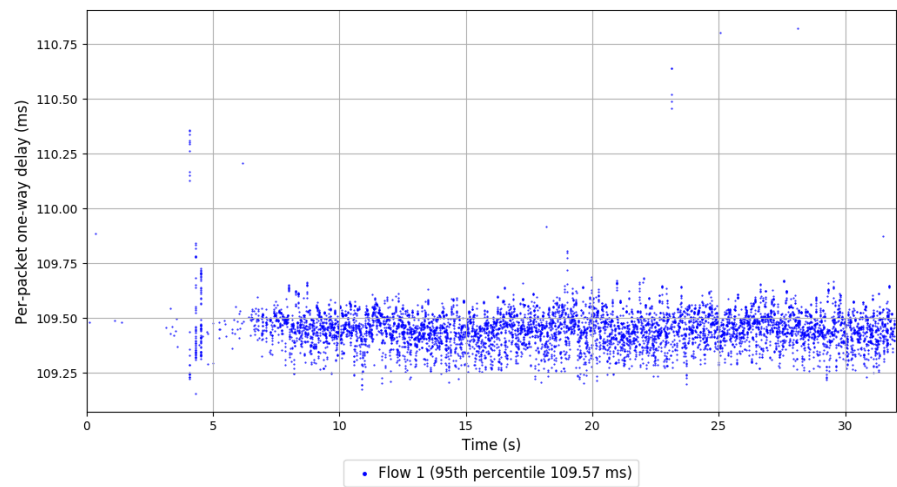
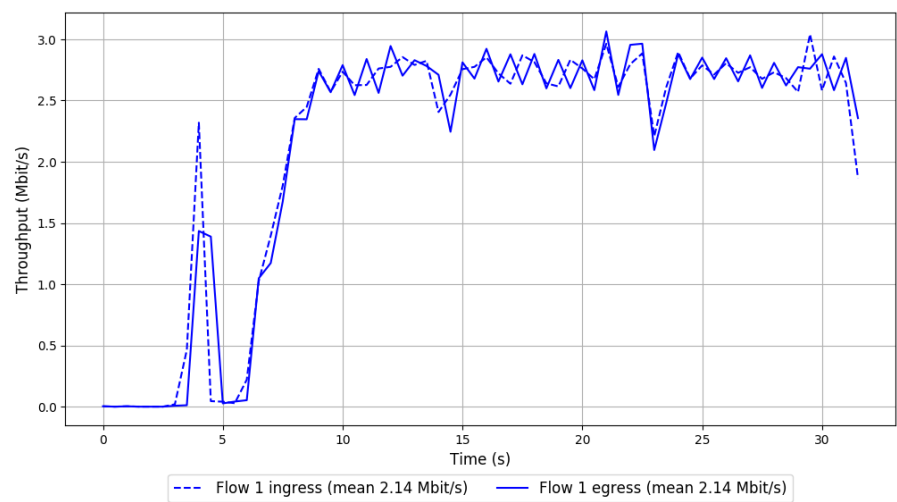
-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 109.573 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-09-21 12:27:38

End at: 2017-09-21 12:28:08

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 112.703 ms

Loss rate: 0.00%

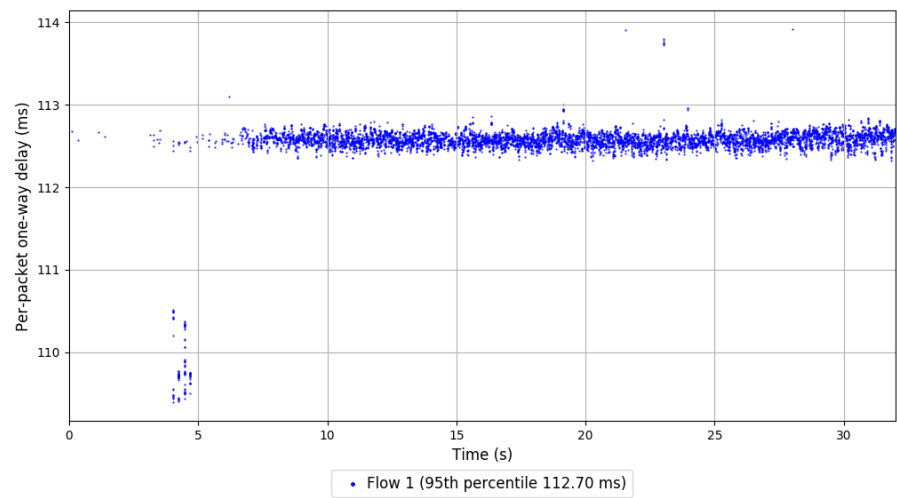
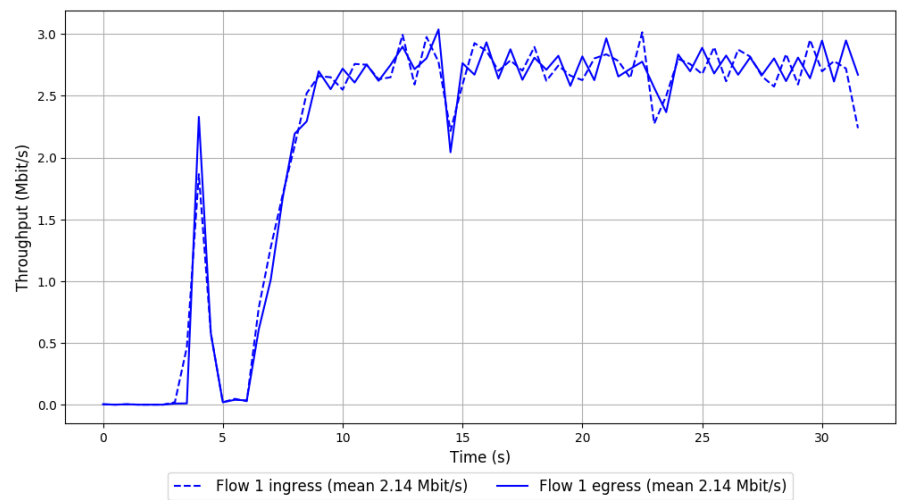
-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 112.703 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-09-21 12:38:50

End at: 2017-09-21 12:39:20

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 110.543 ms

Loss rate: 0.00%

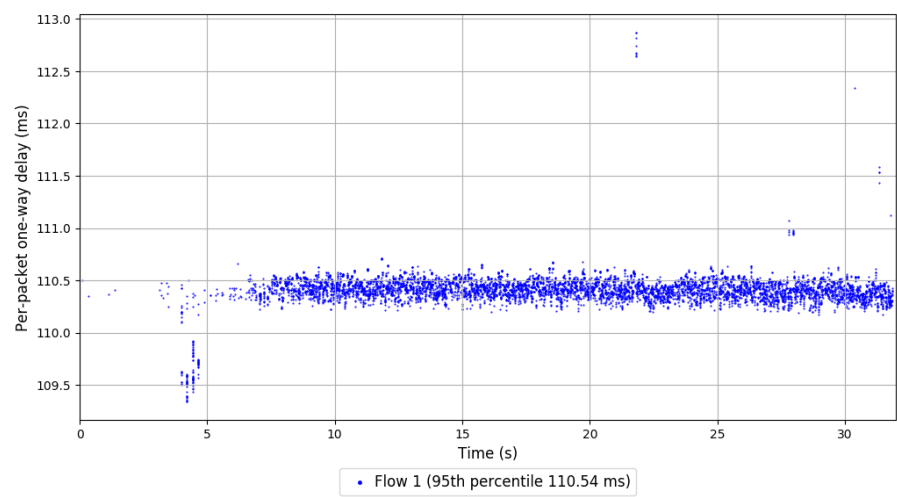
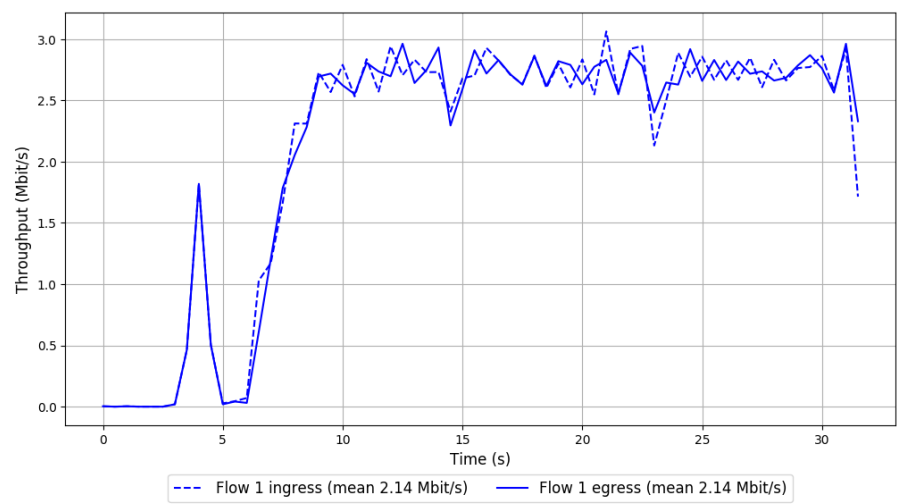
-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 110.543 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-09-21 12:50:12

End at: 2017-09-21 12:50:42

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 109.812 ms

Loss rate: 0.00%

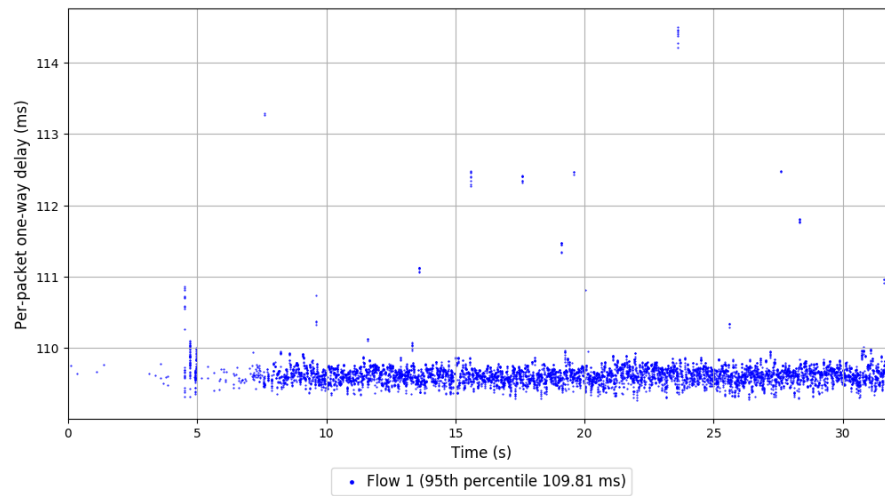
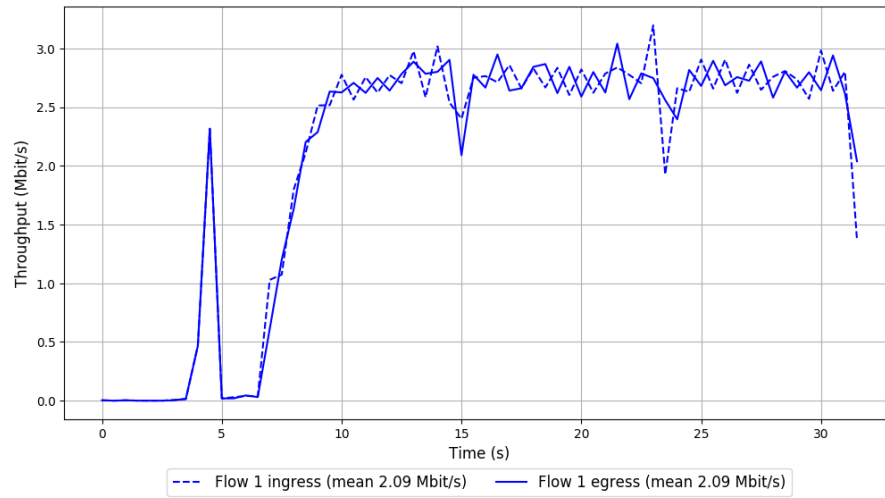
-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 109.812 ms

Loss rate: 0.00%

## Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-09-21 11:13:56

End at: 2017-09-21 11:14:26

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.76 Mbit/s

95th percentile per-packet one-way delay: 115.843 ms

Loss rate: 0.47%

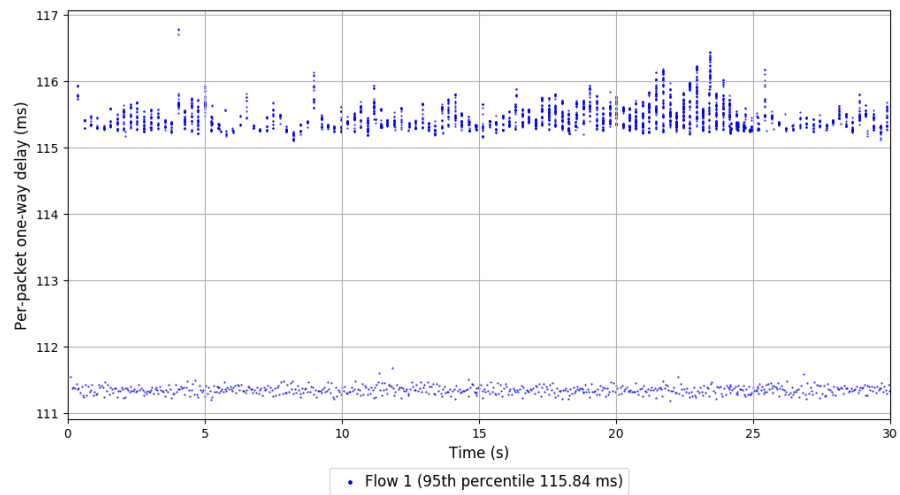
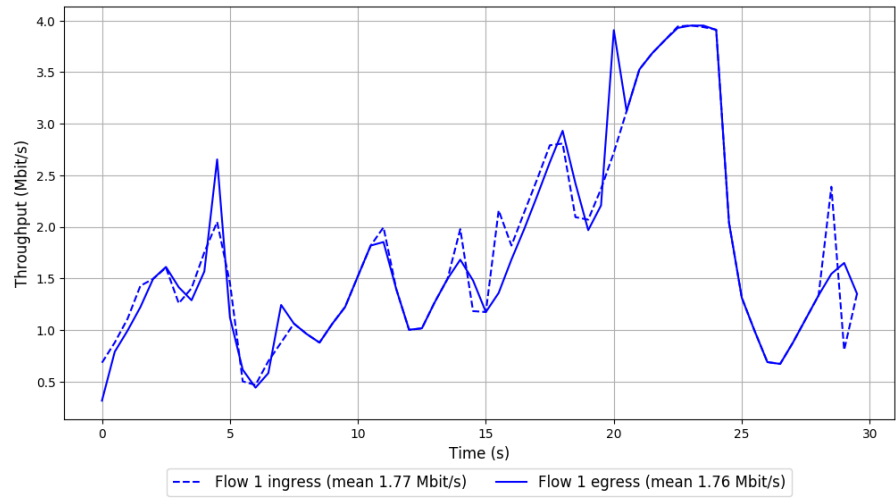
-- Flow 1:

Average throughput: 1.76 Mbit/s

95th percentile per-packet one-way delay: 115.843 ms

Loss rate: 0.47%

## Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-09-21 11:25:01

End at: 2017-09-21 11:25:31

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 116.176 ms

Loss rate: 0.55%

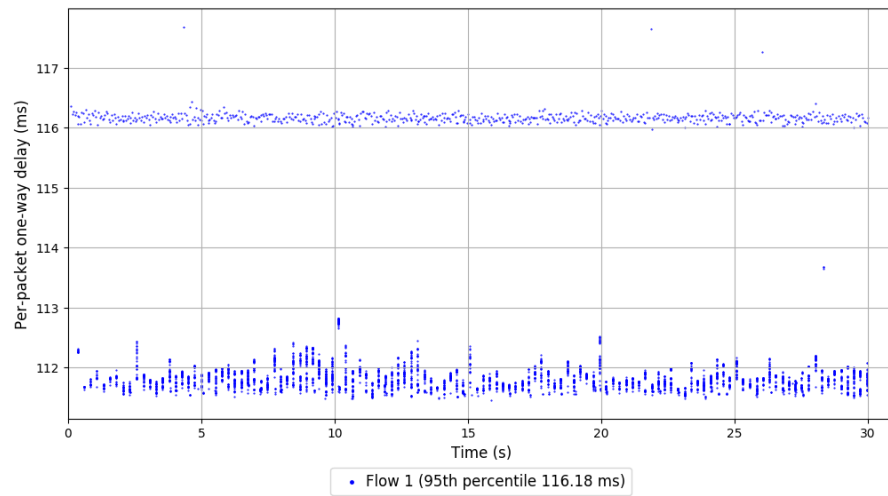
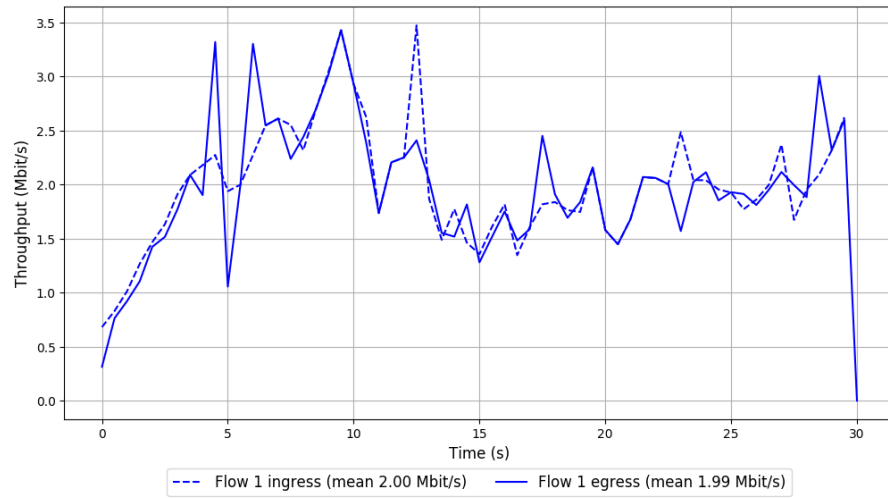
-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 116.176 ms

Loss rate: 0.55%

## Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-09-21 11:35:52

End at: 2017-09-21 11:36:22

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 3.25 Mbit/s

95th percentile per-packet one-way delay: 112.402 ms

Loss rate: 0.28%

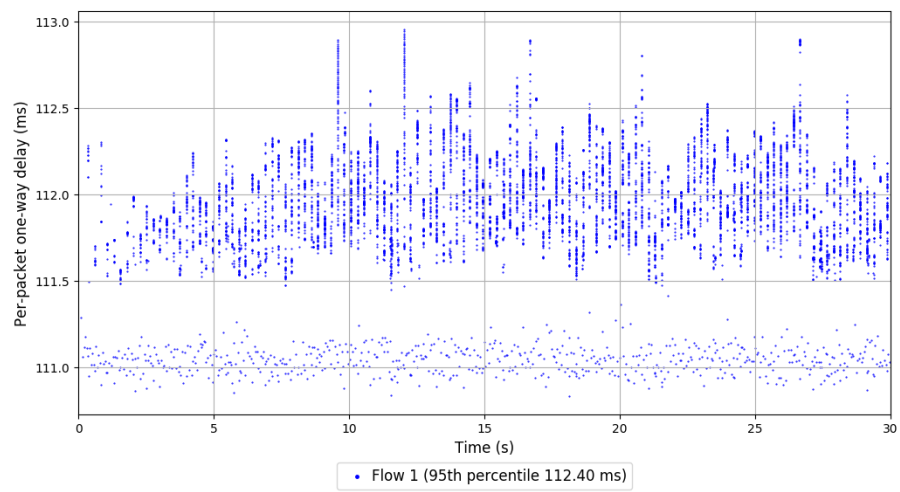
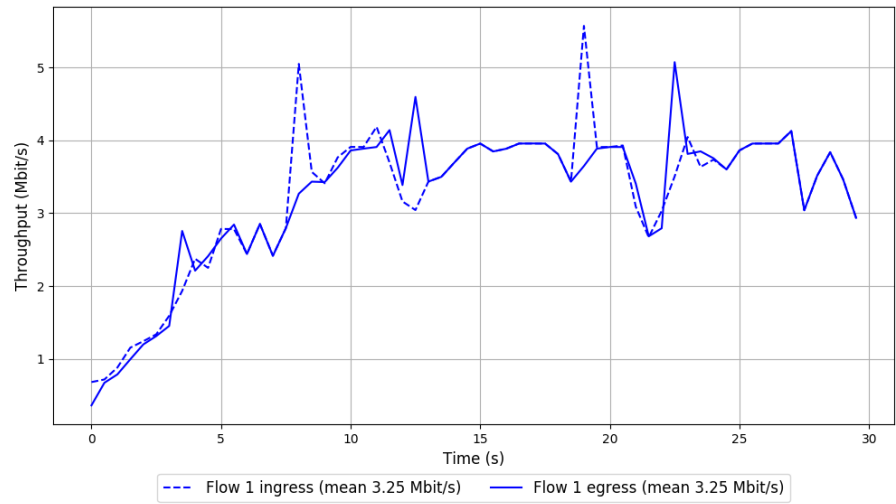
-- Flow 1:

Average throughput: 3.25 Mbit/s

95th percentile per-packet one-way delay: 112.402 ms

Loss rate: 0.28%

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



Run 4: Statistics of Sprout

Start at: 2017-09-21 11:46:40

End at: 2017-09-21 11:47:10

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.66 Mbit/s

95th percentile per-packet one-way delay: 115.406 ms

Loss rate: 0.85%

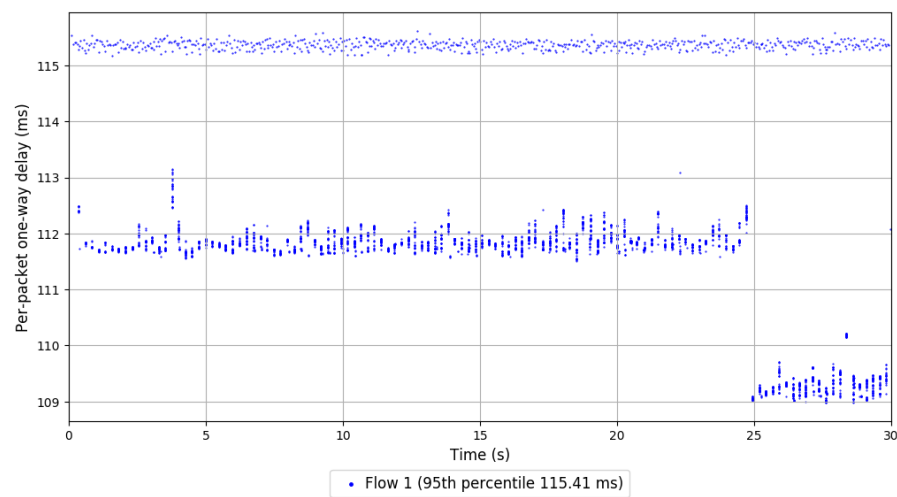
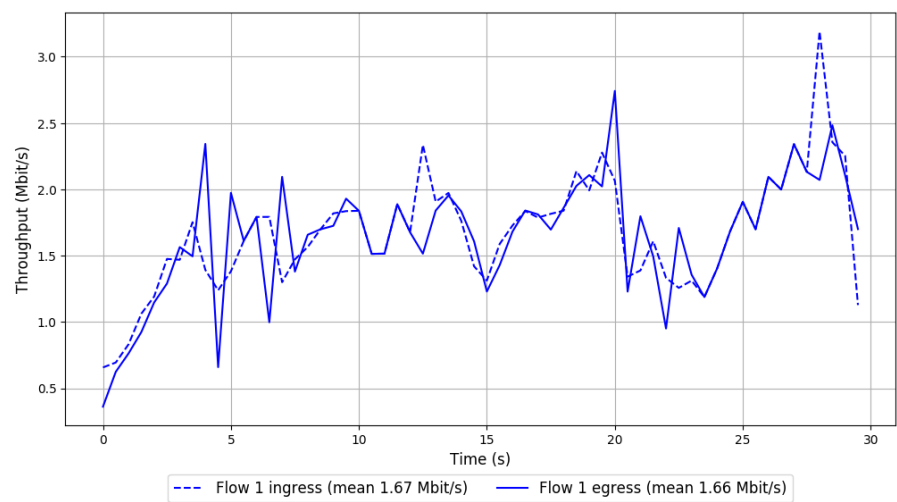
-- Flow 1:

Average throughput: 1.66 Mbit/s

95th percentile per-packet one-way delay: 115.406 ms

Loss rate: 0.85%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-09-21 11:57:20

End at: 2017-09-21 11:57:50

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 3.37 Mbit/s

95th percentile per-packet one-way delay: 110.054 ms

Loss rate: 0.81%

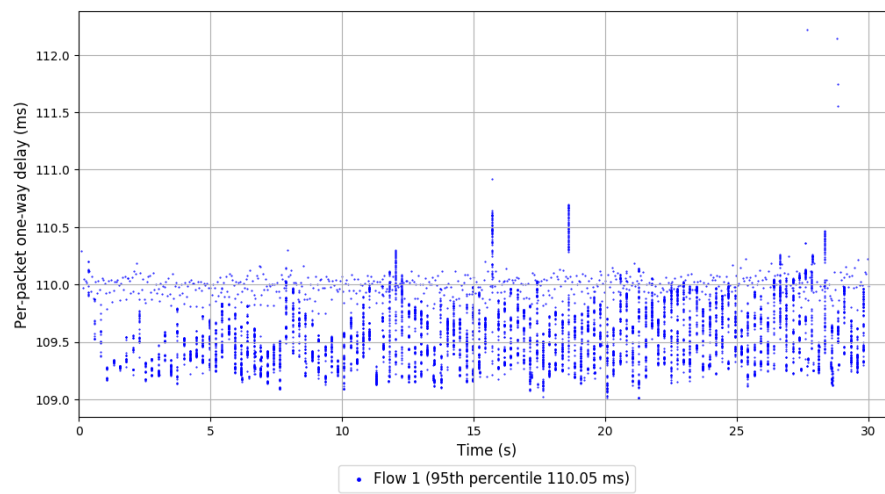
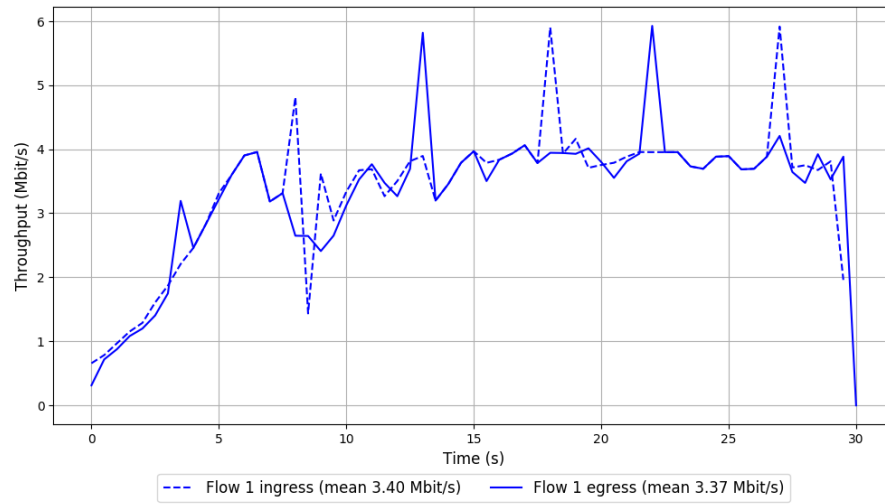
-- Flow 1:

Average throughput: 3.37 Mbit/s

95th percentile per-packet one-way delay: 110.054 ms

Loss rate: 0.81%

## Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-09-21 12:08:26

End at: 2017-09-21 12:08:56

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 3.19 Mbit/s

95th percentile per-packet one-way delay: 110.088 ms

Loss rate: 0.82%

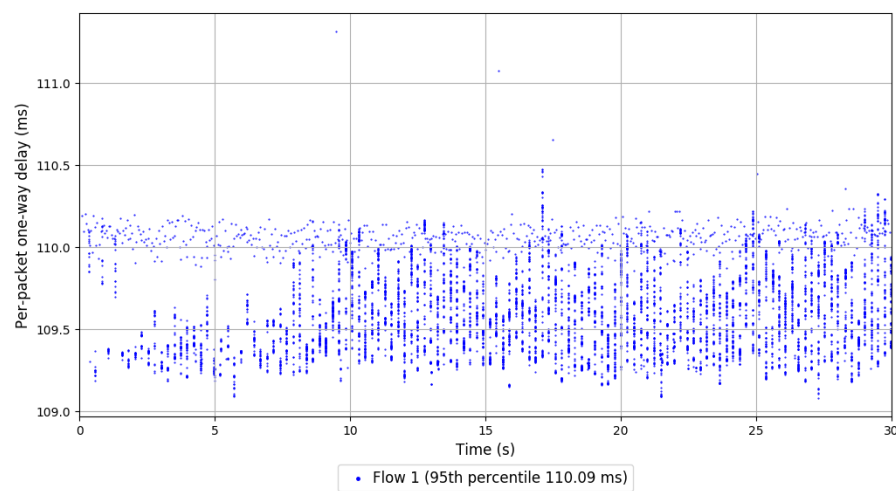
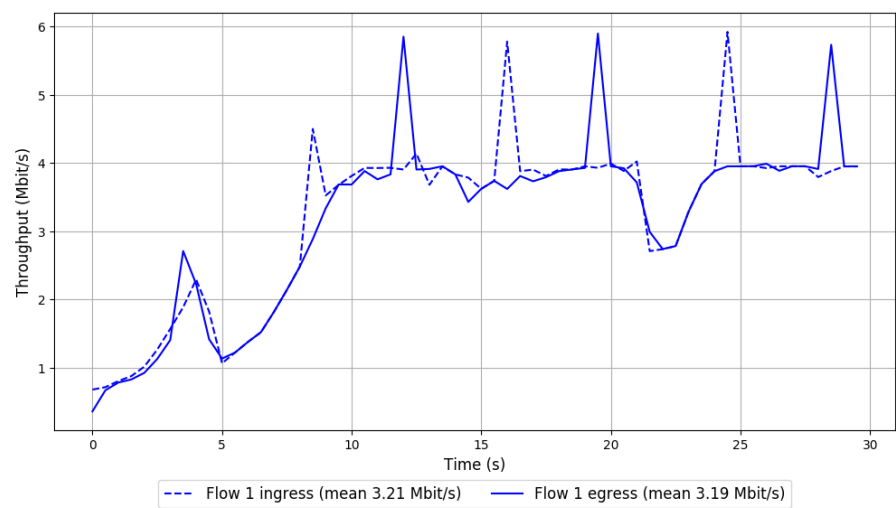
-- Flow 1:

Average throughput: 3.19 Mbit/s

95th percentile per-packet one-way delay: 110.088 ms

Loss rate: 0.82%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-09-21 12:19:34

End at: 2017-09-21 12:20:04

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 3.14 Mbit/s

95th percentile per-packet one-way delay: 112.351 ms

Loss rate: 0.00%

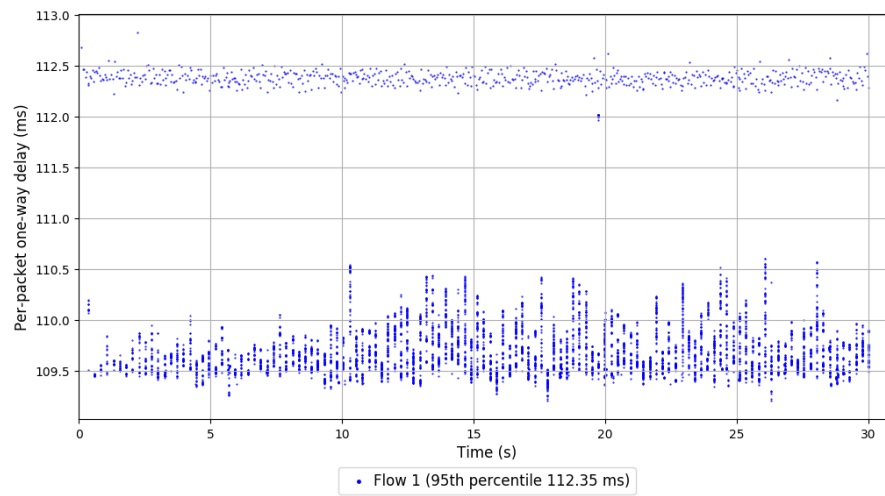
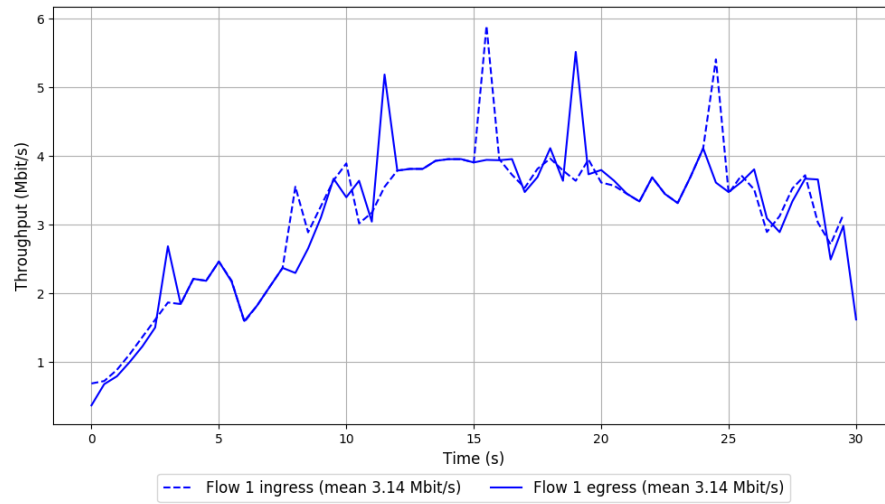
-- Flow 1:

Average throughput: 3.14 Mbit/s

95th percentile per-packet one-way delay: 112.351 ms

Loss rate: 0.00%

## Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-09-21 12:30:26

End at: 2017-09-21 12:30:56

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 3.03 Mbit/s

95th percentile per-packet one-way delay: 110.262 ms

Loss rate: 0.31%

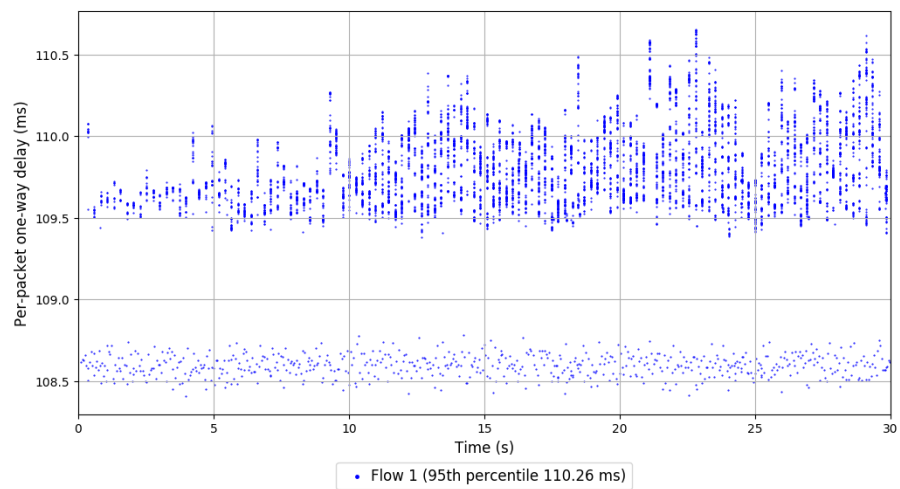
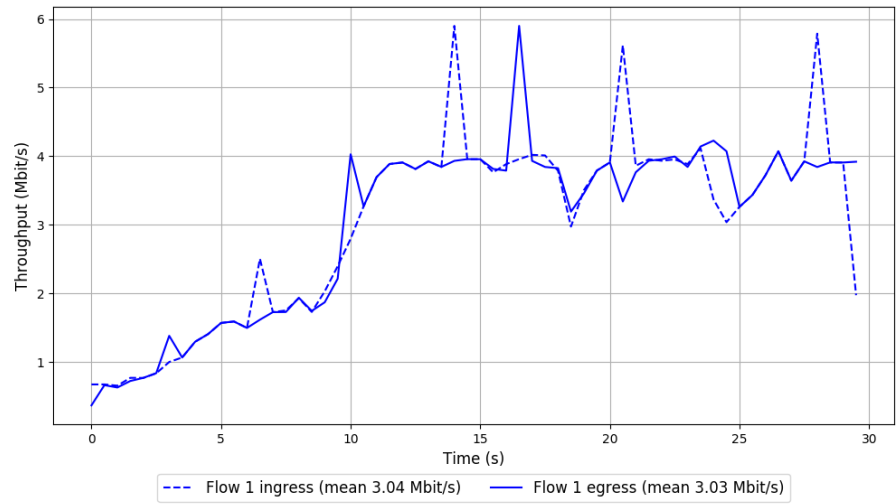
-- Flow 1:

Average throughput: 3.03 Mbit/s

95th percentile per-packet one-way delay: 110.262 ms

Loss rate: 0.31%

## Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-09-21 12:41:39

End at: 2017-09-21 12:42:09

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 112.822 ms

Loss rate: 1.35%

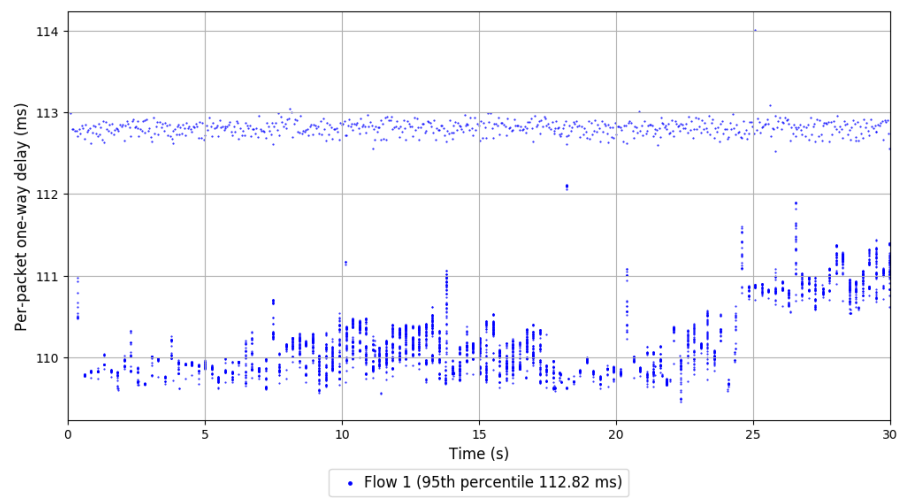
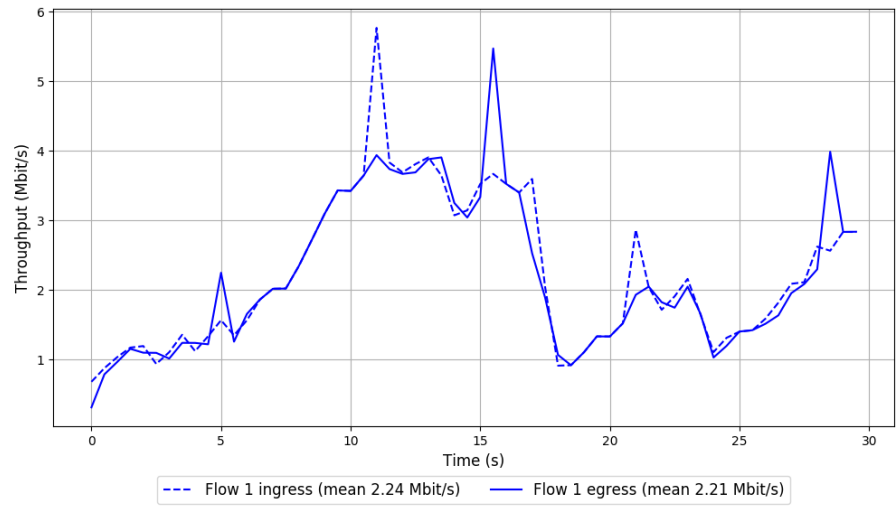
-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 112.822 ms

Loss rate: 1.35%

### Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-09-21 12:53:02

End at: 2017-09-21 12:53:32

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 110.332 ms

Loss rate: 2.93%

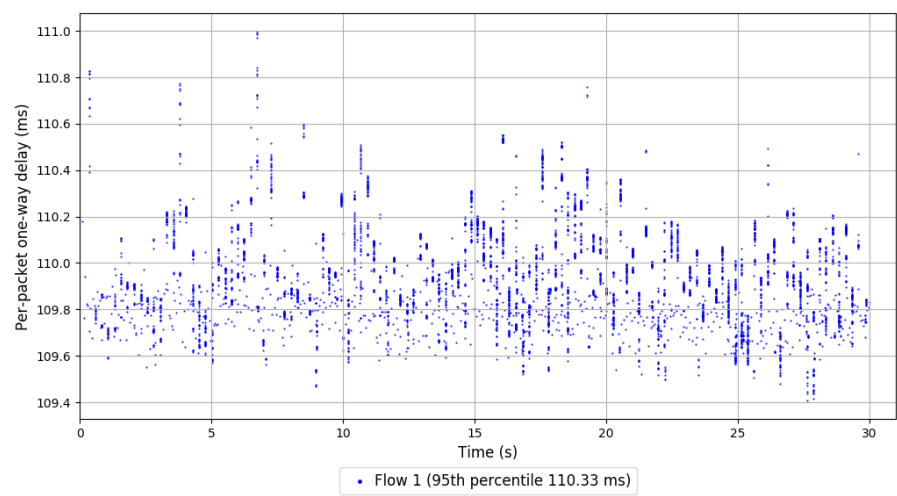
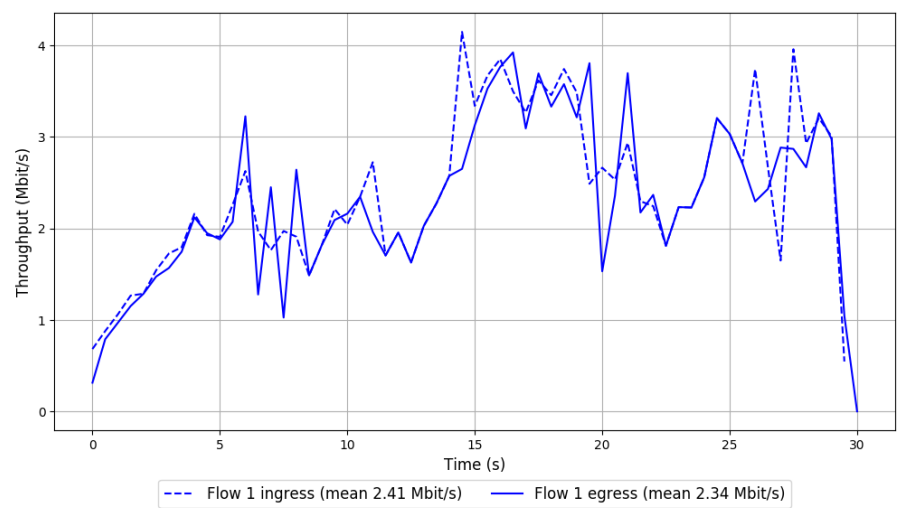
-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 110.332 ms

Loss rate: 2.93%

Run 10: Report of Sprout — Data Link

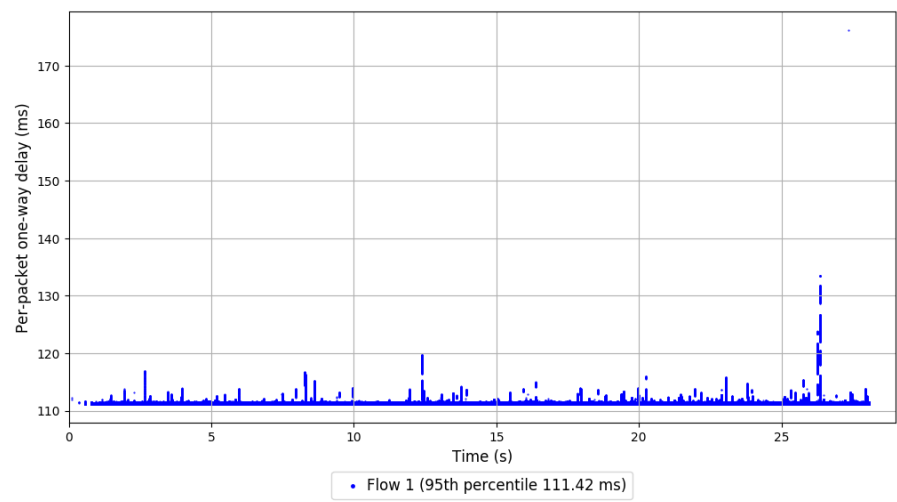
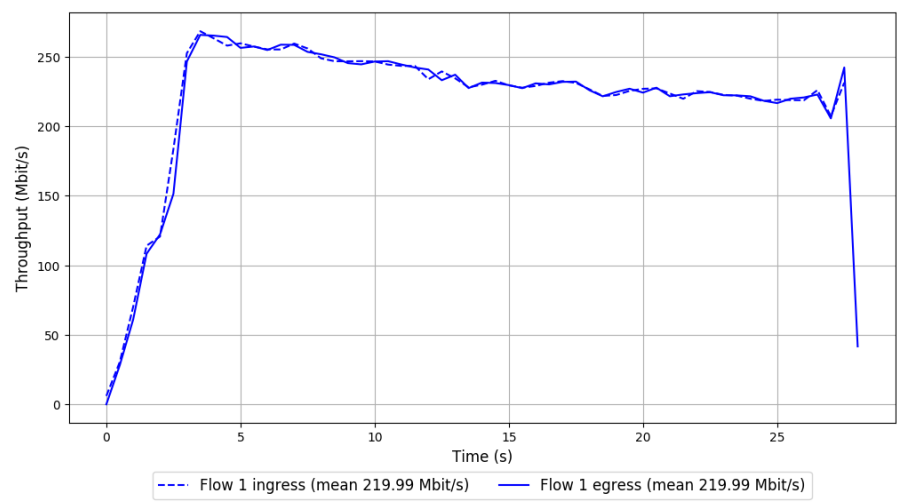


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-09-21 11:17:04
End at: 2017-09-21 11:17:34

# Below is generated by plot.py at 2017-09-21 13:55:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.99 Mbit/s
95th percentile per-packet one-way delay: 111.415 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 219.99 Mbit/s
95th percentile per-packet one-way delay: 111.415 ms
Loss rate: 0.00%
```

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

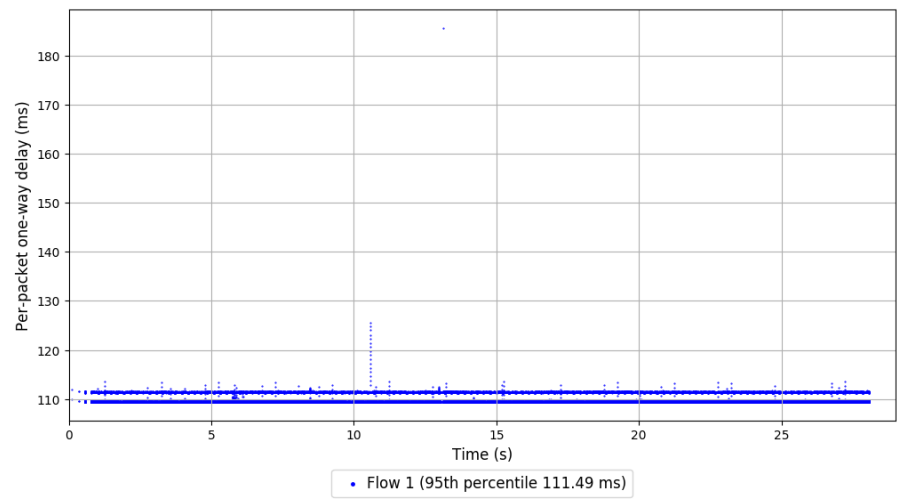
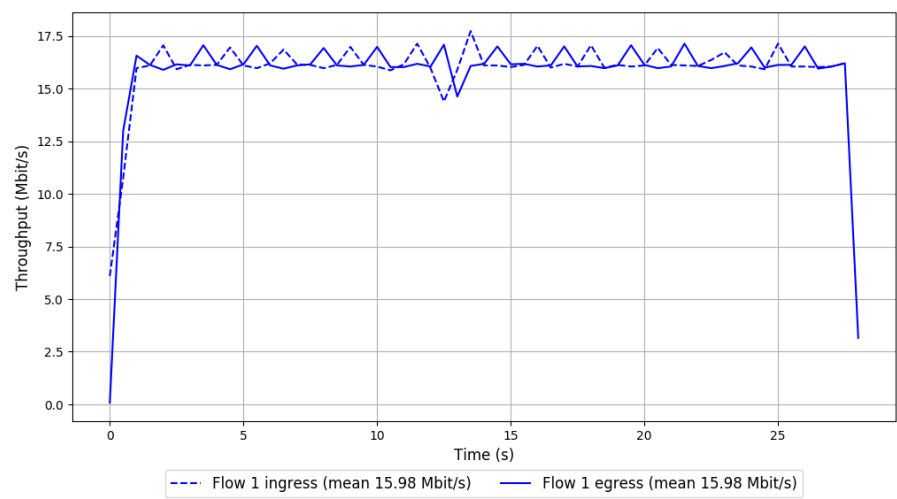


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-09-21 11:28:16
End at: 2017-09-21 11:28:46

# Below is generated by plot.py at 2017-09-21 13:55:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.98 Mbit/s
95th percentile per-packet one-way delay: 111.487 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.98 Mbit/s
95th percentile per-packet one-way delay: 111.487 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-09-21 11:39:07

End at: 2017-09-21 11:39:37

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 14.18 Mbit/s

95th percentile per-packet one-way delay: 115.240 ms

Loss rate: 0.01%

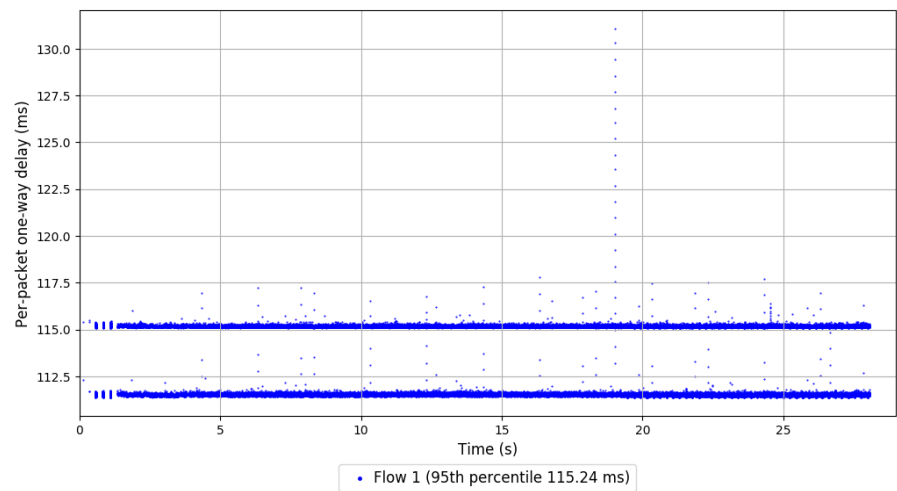
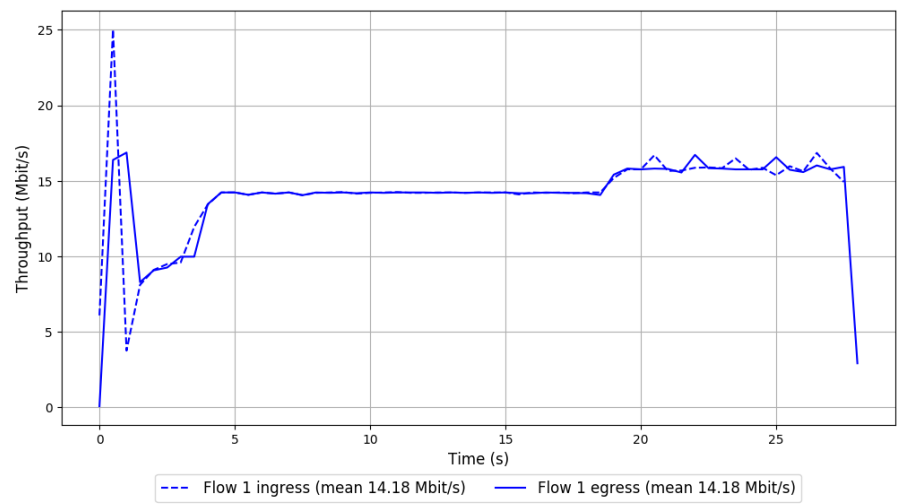
-- Flow 1:

Average throughput: 14.18 Mbit/s

95th percentile per-packet one-way delay: 115.240 ms

Loss rate: 0.01%

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

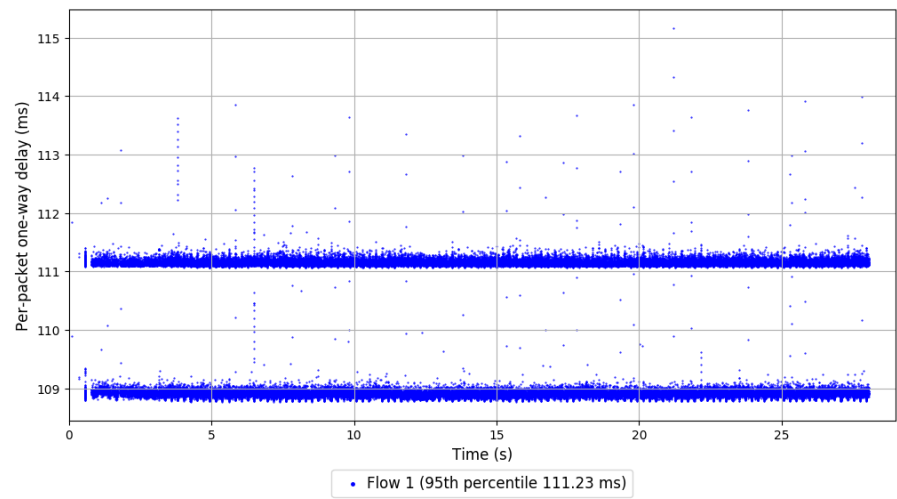
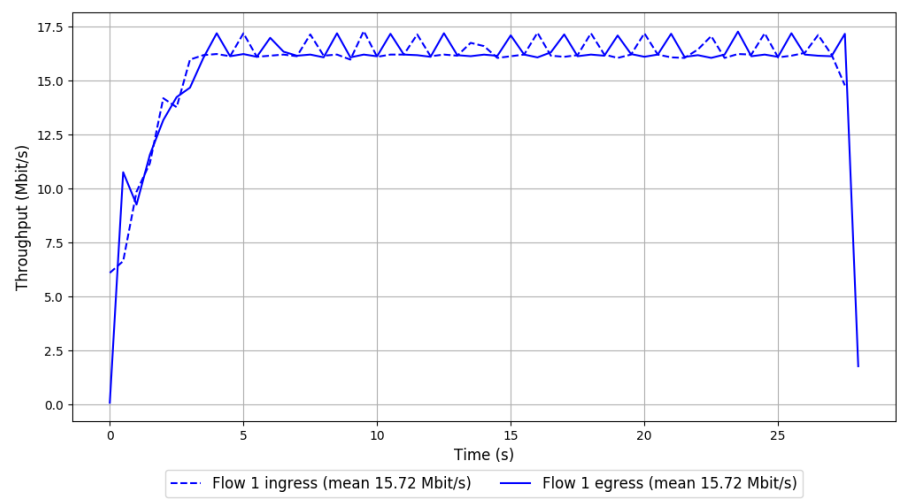


```
Run 4: Statistics of TaoVA-100x

Start at: 2017-09-21 11:49:56
End at: 2017-09-21 11:50:26

# Below is generated by plot.py at 2017-09-21 13:55:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.72 Mbit/s
95th percentile per-packet one-way delay: 111.228 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.72 Mbit/s
95th percentile per-packet one-way delay: 111.228 ms
Loss rate: 0.00%
```

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-09-21 12:00:35

End at: 2017-09-21 12:01:05

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.78 Mbit/s

95th percentile per-packet one-way delay: 111.386 ms

Loss rate: 0.00%

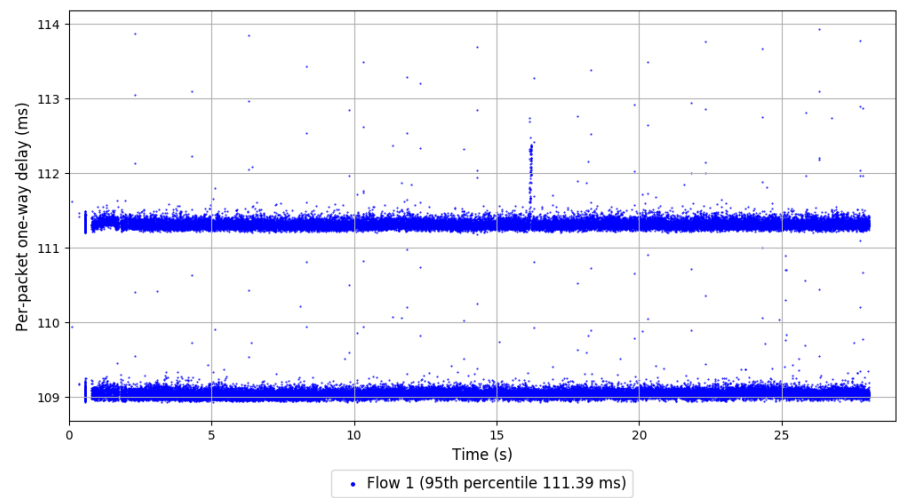
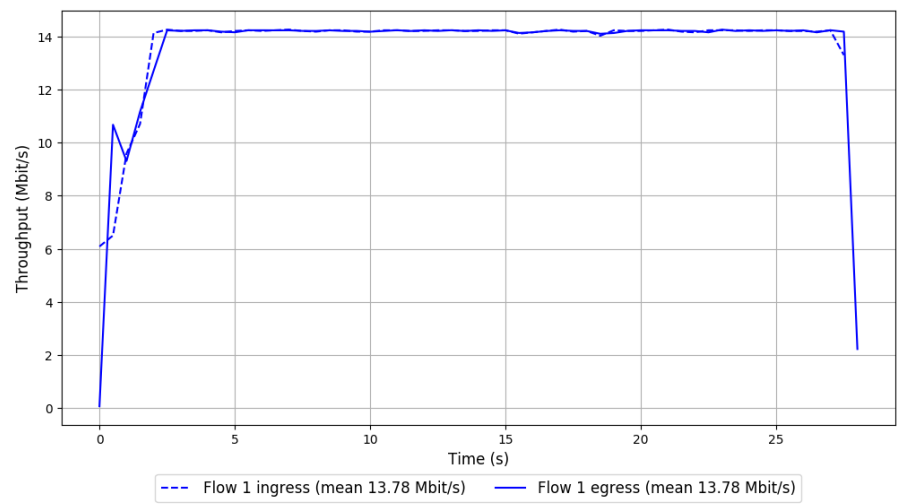
-- Flow 1:

Average throughput: 13.78 Mbit/s

95th percentile per-packet one-way delay: 111.386 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-09-21 12:11:40

End at: 2017-09-21 12:12:10

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 212.51 Mbit/s

95th percentile per-packet one-way delay: 110.152 ms

Loss rate: 0.00%

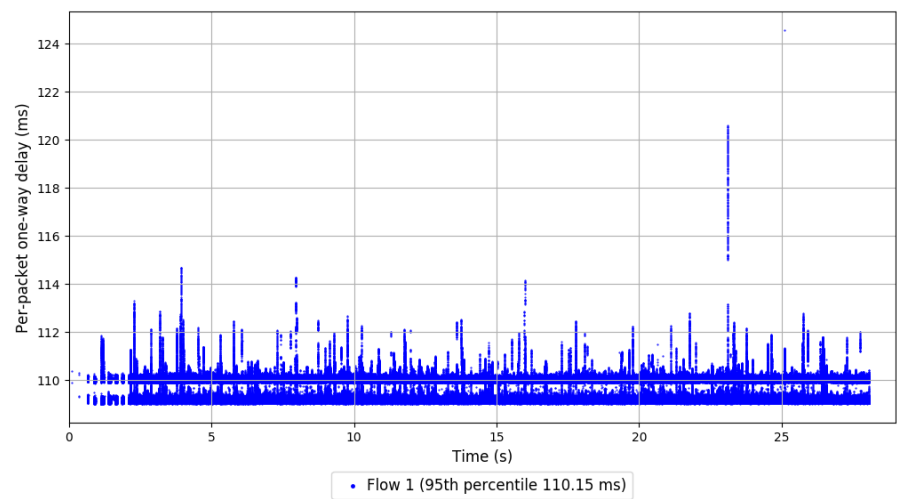
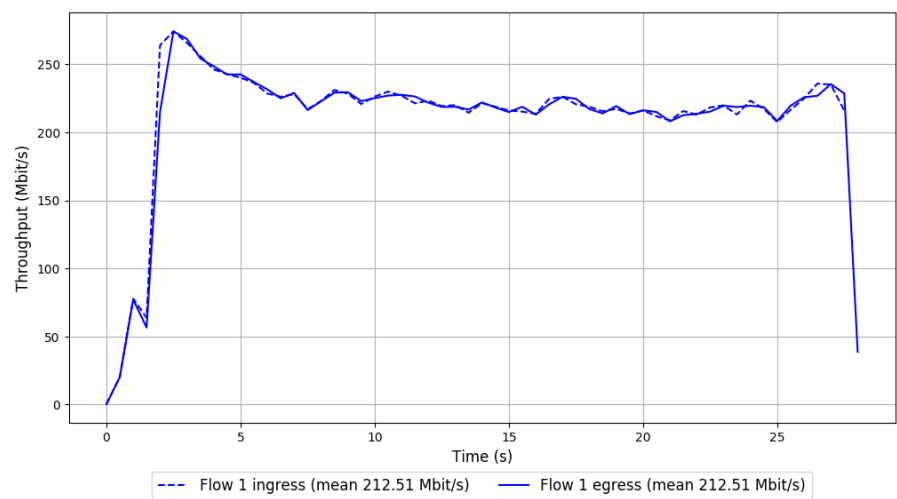
-- Flow 1:

Average throughput: 212.51 Mbit/s

95th percentile per-packet one-way delay: 110.152 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-09-21 12:22:48

End at: 2017-09-21 12:23:18

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.79 Mbit/s

95th percentile per-packet one-way delay: 111.923 ms

Loss rate: 0.00%

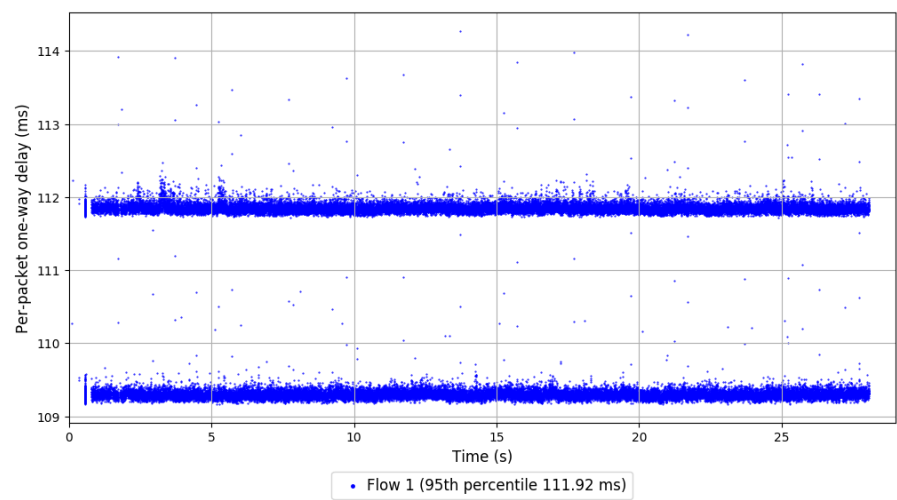
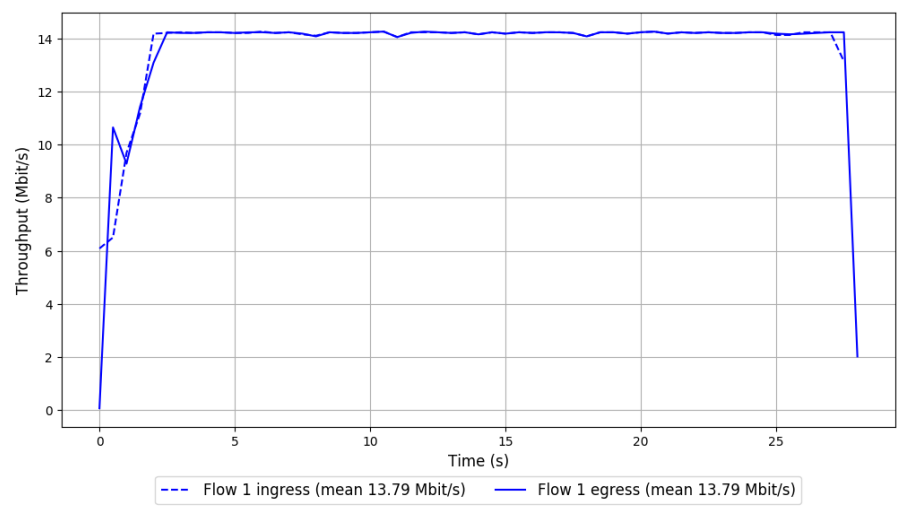
-- Flow 1:

Average throughput: 13.79 Mbit/s

95th percentile per-packet one-way delay: 111.923 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-09-21 12:33:42

End at: 2017-09-21 12:34:12

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 183.03 Mbit/s

95th percentile per-packet one-way delay: 110.872 ms

Loss rate: 0.00%

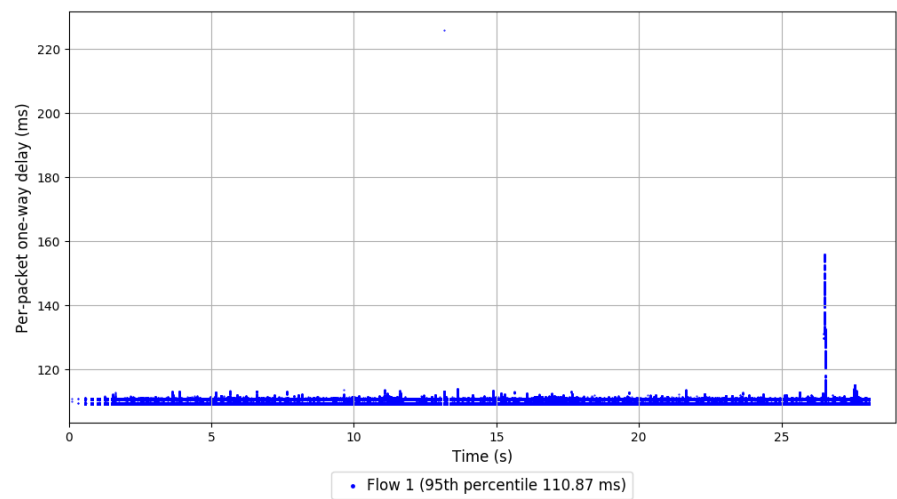
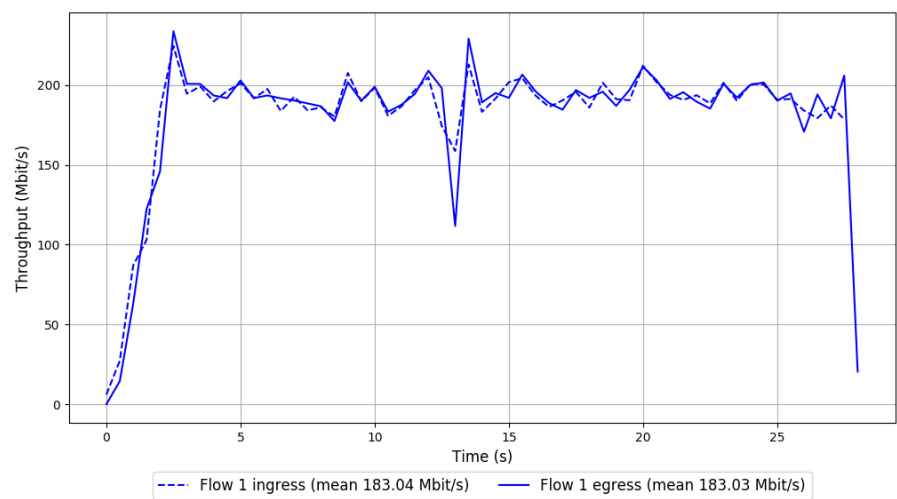
-- Flow 1:

Average throughput: 183.03 Mbit/s

95th percentile per-packet one-way delay: 110.872 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-09-21 12:44:54

End at: 2017-09-21 12:45:24

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 207.03 Mbit/s

95th percentile per-packet one-way delay: 113.716 ms

Loss rate: 0.01%

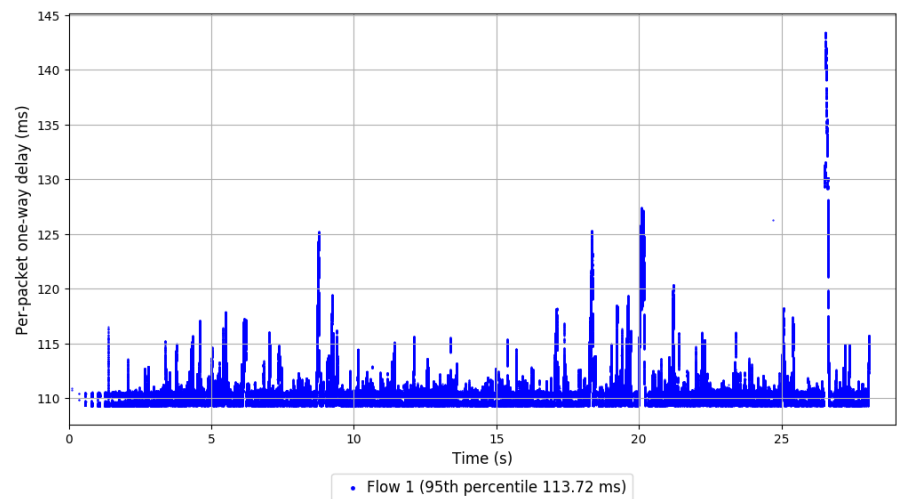
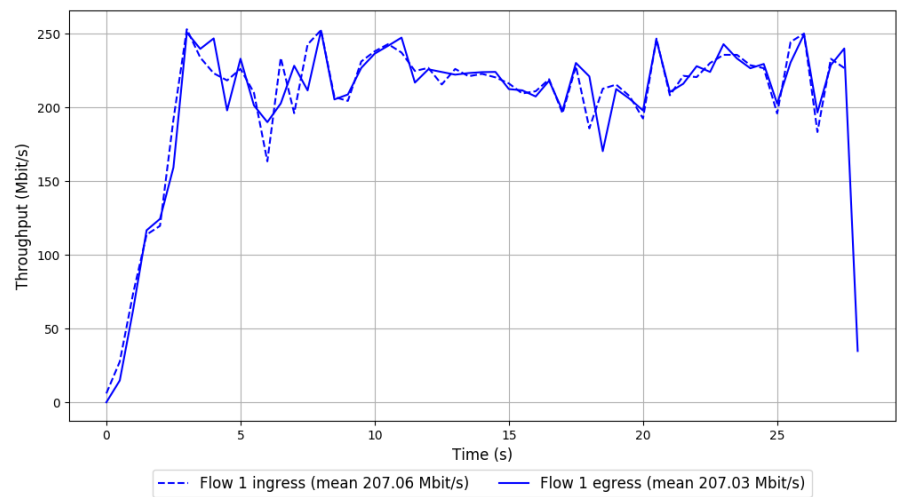
-- Flow 1:

Average throughput: 207.03 Mbit/s

95th percentile per-packet one-way delay: 113.716 ms

Loss rate: 0.01%

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

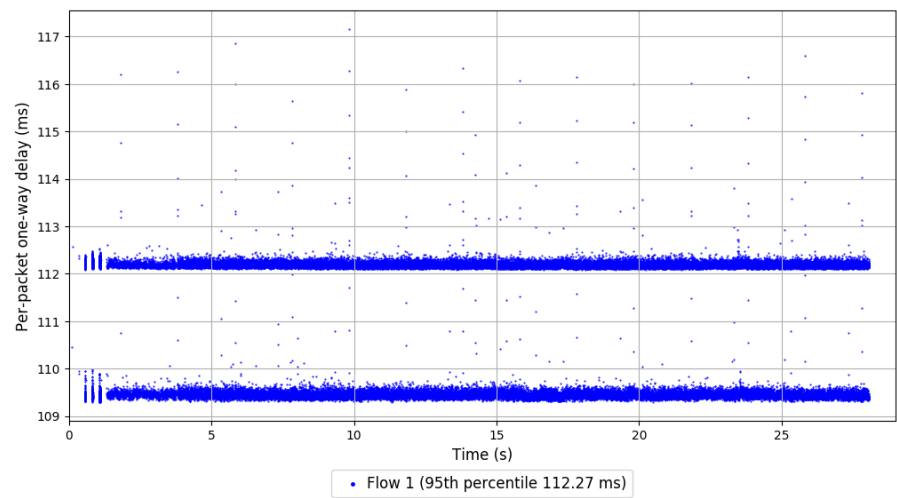
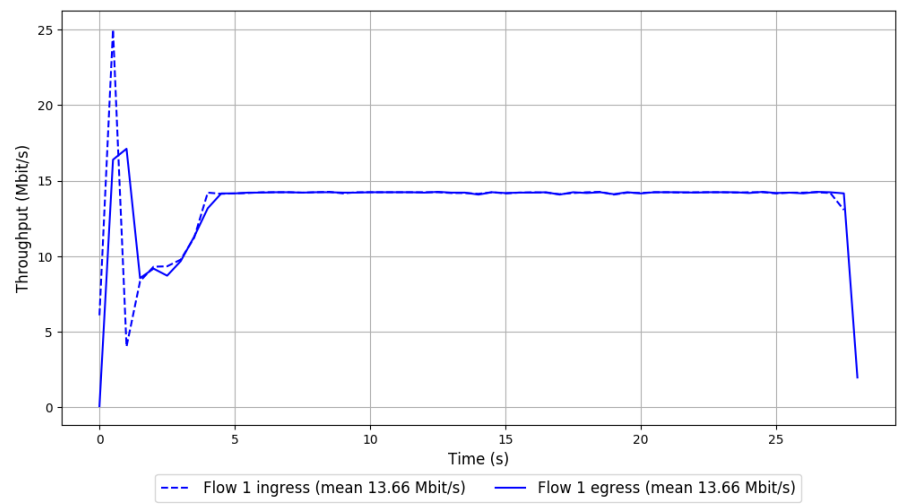


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-09-21 12:56:14
End at: 2017-09-21 12:56:44

# Below is generated by plot.py at 2017-09-21 13:55:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.66 Mbit/s
95th percentile per-packet one-way delay: 112.272 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.66 Mbit/s
95th percentile per-packet one-way delay: 112.272 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-09-21 11:13:13

End at: 2017-09-21 11:13:43

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 32.62 Mbit/s

95th percentile per-packet one-way delay: 116.541 ms

Loss rate: 0.01%

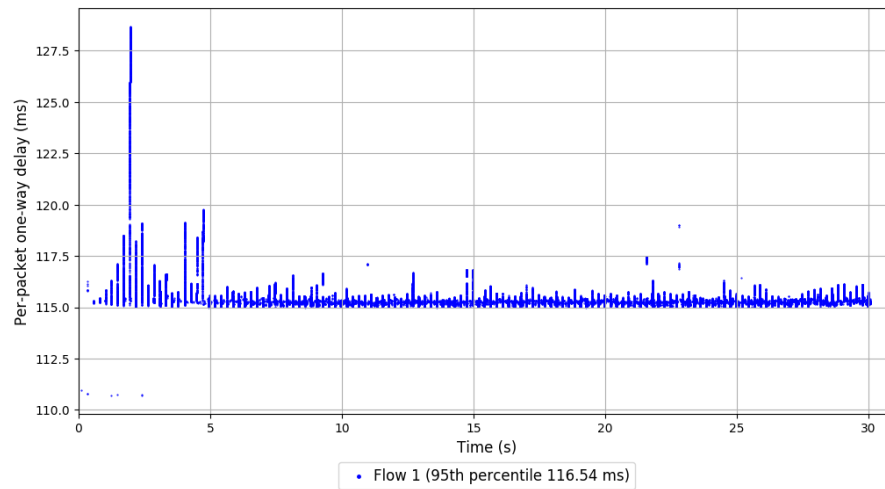
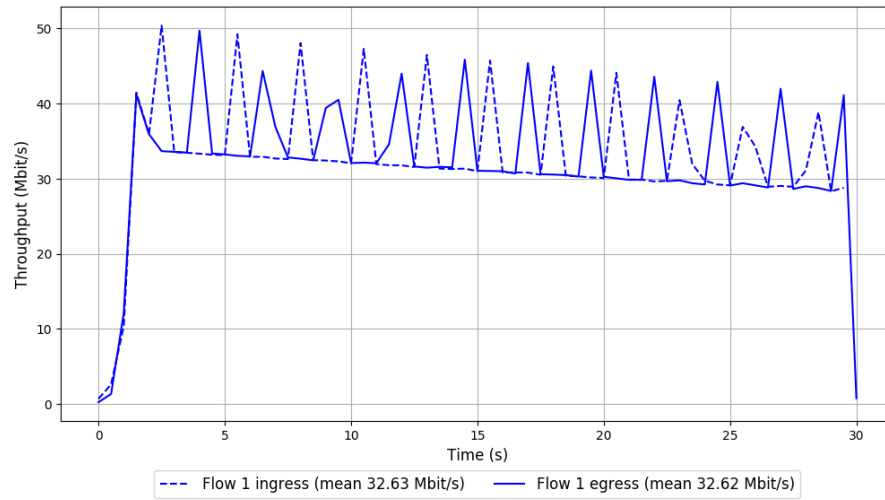
-- Flow 1:

Average throughput: 32.62 Mbit/s

95th percentile per-packet one-way delay: 116.541 ms

Loss rate: 0.01%

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



Run 2: Statistics of TCP Vegas

Start at: 2017-09-21 11:24:19

End at: 2017-09-21 11:24:49

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 19.99 Mbit/s

95th percentile per-packet one-way delay: 112.693 ms

Loss rate: 0.03%

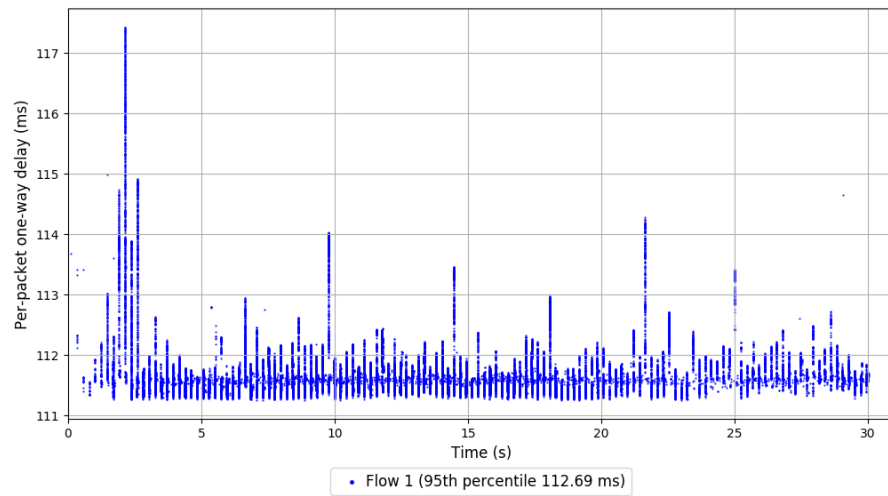
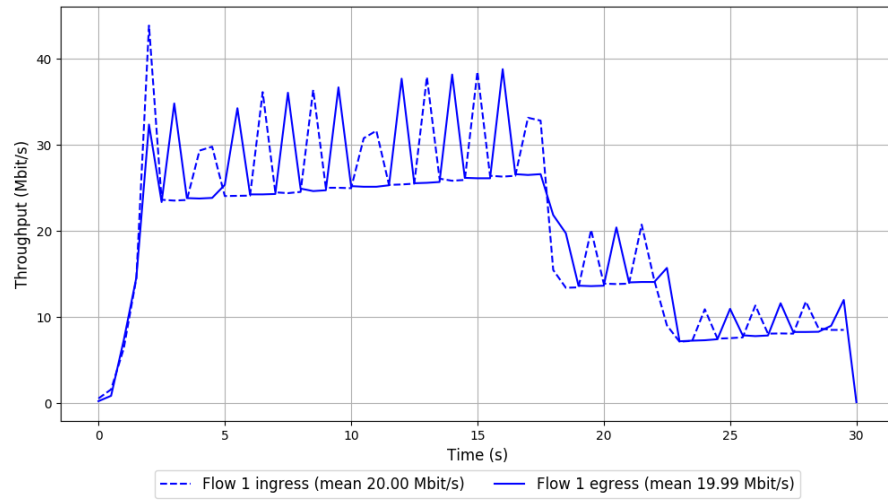
-- Flow 1:

Average throughput: 19.99 Mbit/s

95th percentile per-packet one-way delay: 112.693 ms

Loss rate: 0.03%

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



Run 3: Statistics of TCP Vegas

Start at: 2017-09-21 11:35:09

End at: 2017-09-21 11:35:39

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 32.70 Mbit/s

95th percentile per-packet one-way delay: 115.944 ms

Loss rate: 0.00%

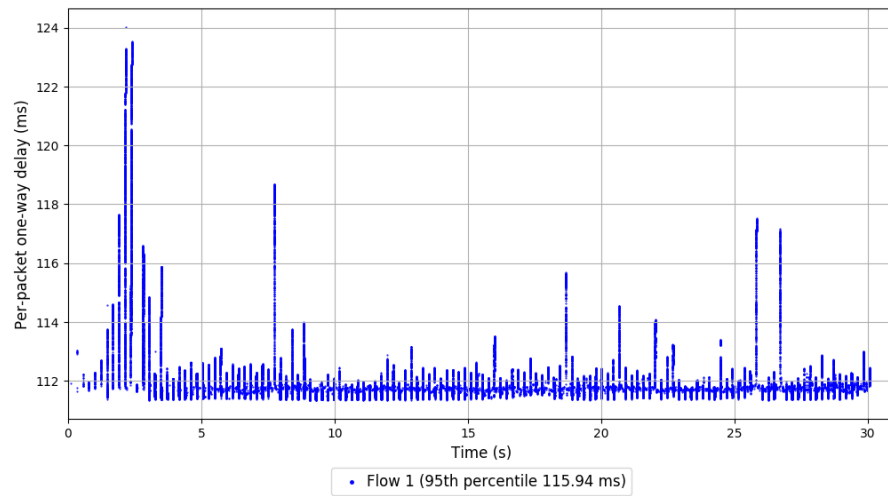
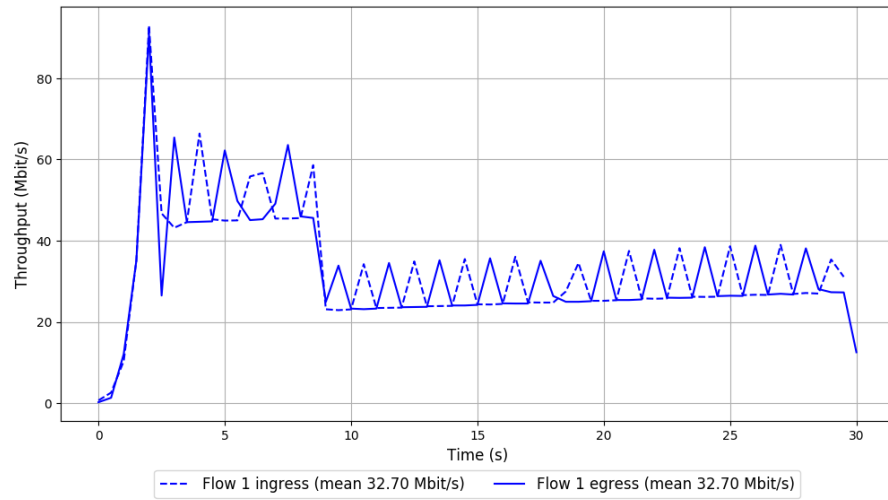
-- Flow 1:

Average throughput: 32.70 Mbit/s

95th percentile per-packet one-way delay: 115.944 ms

Loss rate: 0.00%

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



Run 4: Statistics of TCP Vegas

Start at: 2017-09-21 11:45:56

End at: 2017-09-21 11:46:26

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 43.21 Mbit/s

95th percentile per-packet one-way delay: 122.199 ms

Loss rate: 0.02%

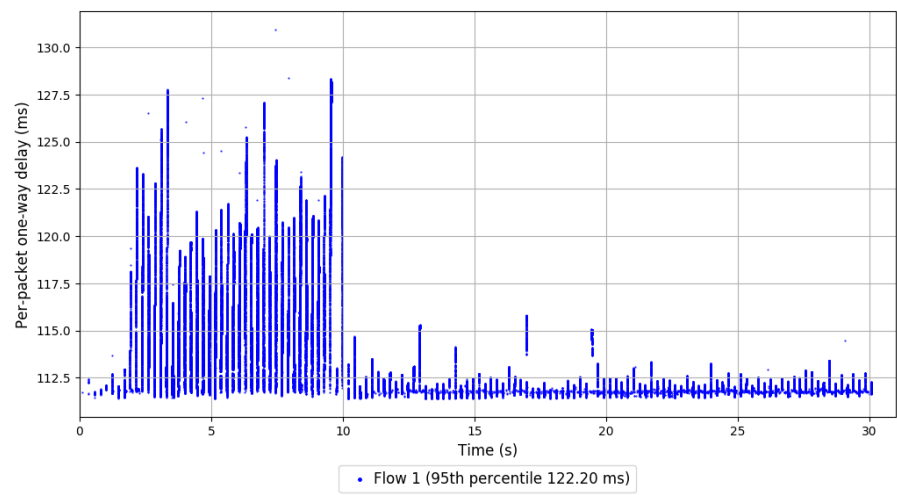
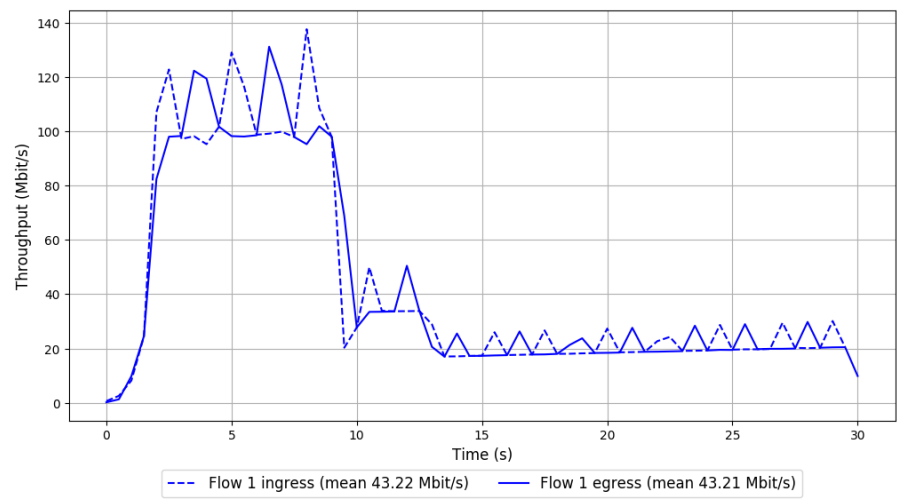
-- Flow 1:

Average throughput: 43.21 Mbit/s

95th percentile per-packet one-way delay: 122.199 ms

Loss rate: 0.02%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-09-21 11:56:37

End at: 2017-09-21 11:57:07

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 16.90 Mbit/s

95th percentile per-packet one-way delay: 111.161 ms

Loss rate: 0.07%

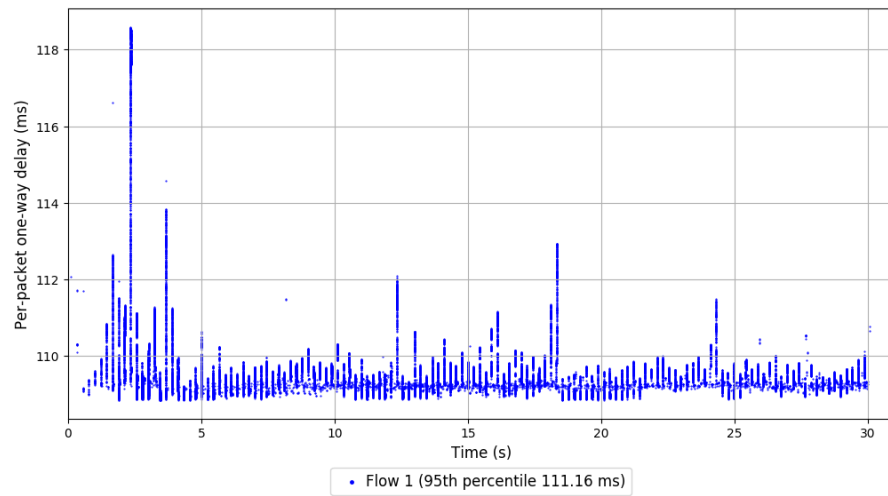
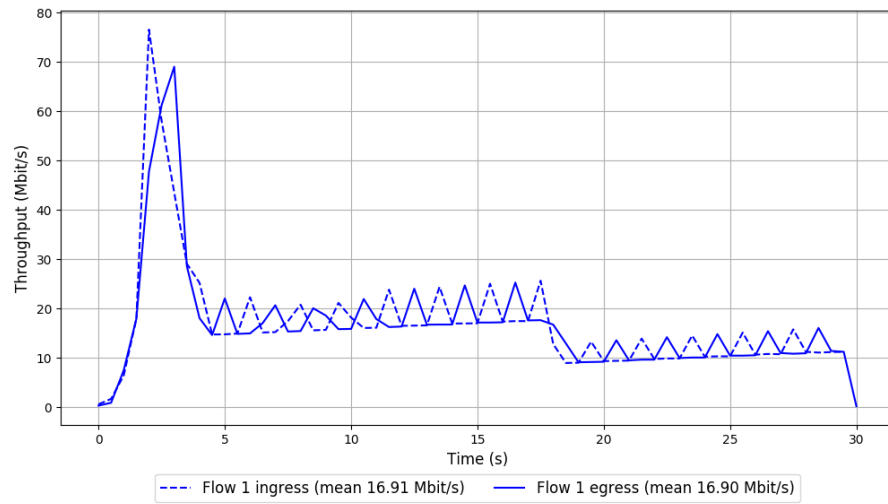
-- Flow 1:

Average throughput: 16.90 Mbit/s

95th percentile per-packet one-way delay: 111.161 ms

Loss rate: 0.07%

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



Run 6: Statistics of TCP Vegas

Start at: 2017-09-21 12:07:39

End at: 2017-09-21 12:08:09

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.74 Mbit/s

95th percentile per-packet one-way delay: 112.781 ms

Loss rate: 0.00%

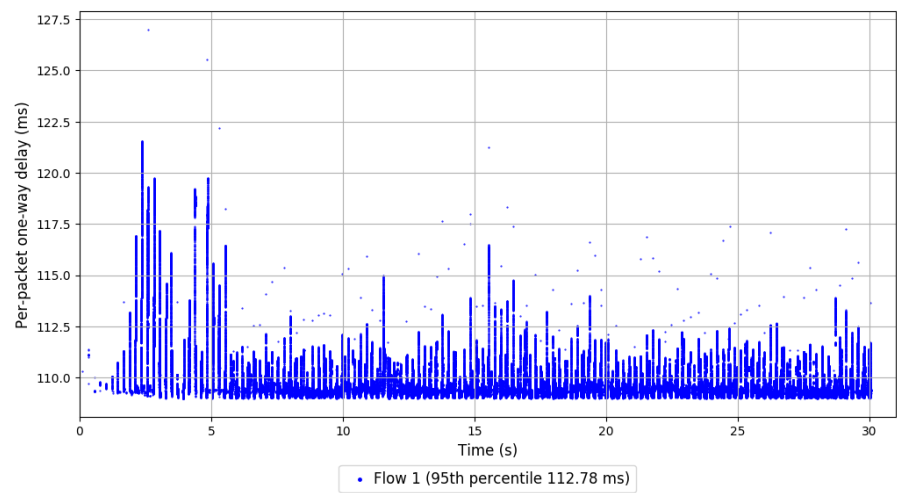
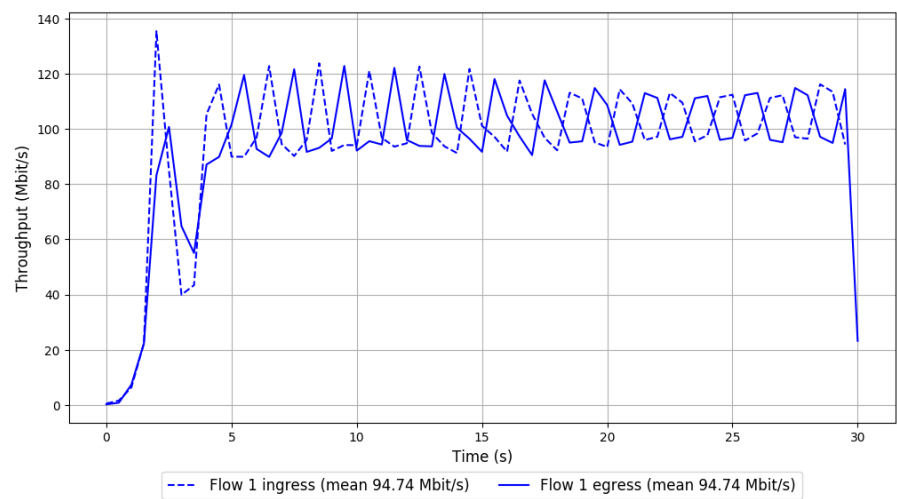
-- Flow 1:

Average throughput: 94.74 Mbit/s

95th percentile per-packet one-way delay: 112.781 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-09-21 12:18:52

End at: 2017-09-21 12:19:22

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.48 Mbit/s

95th percentile per-packet one-way delay: 110.186 ms

Loss rate: 0.11%

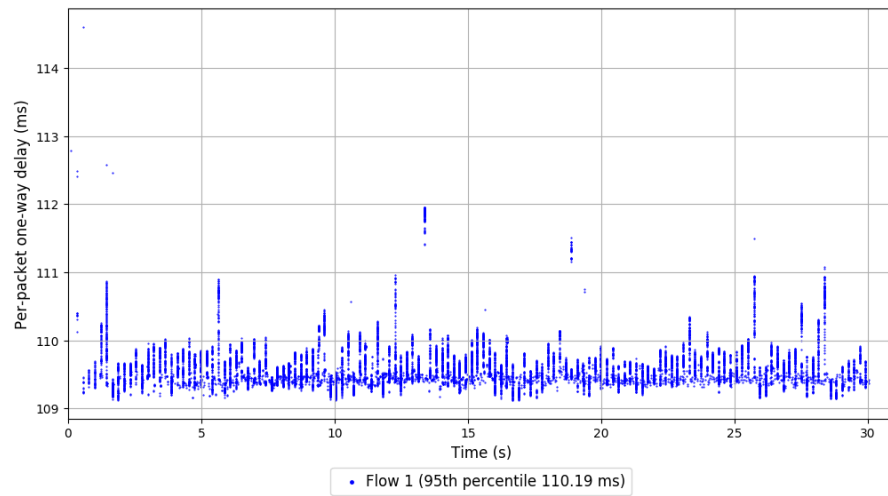
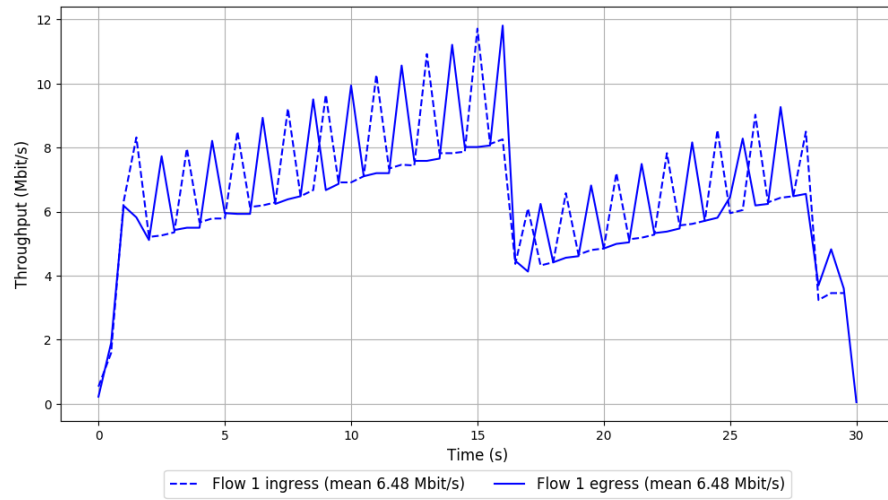
-- Flow 1:

Average throughput: 6.48 Mbit/s

95th percentile per-packet one-way delay: 110.186 ms

Loss rate: 0.11%

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



Run 8: Statistics of TCP Vegas

Start at: 2017-09-21 12:29:43

End at: 2017-09-21 12:30:13

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 21.34 Mbit/s

95th percentile per-packet one-way delay: 114.265 ms

Loss rate: 0.00%

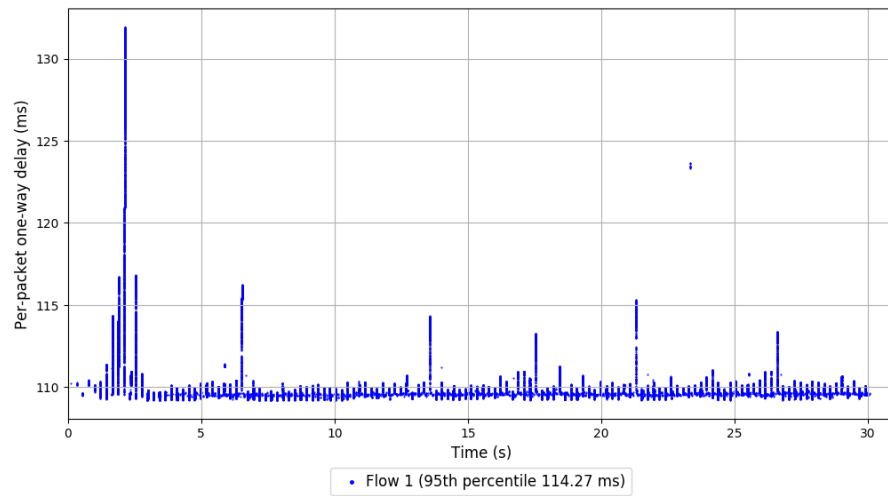
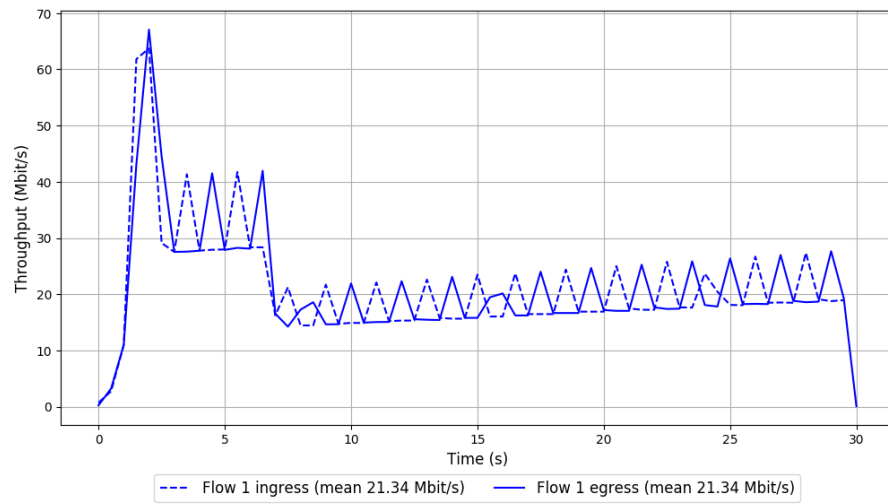
-- Flow 1:

Average throughput: 21.34 Mbit/s

95th percentile per-packet one-way delay: 114.265 ms

Loss rate: 0.00%

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



Run 9: Statistics of TCP Vegas

Start at: 2017-09-21 12:40:56

End at: 2017-09-21 12:41:26

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 37.10 Mbit/s

95th percentile per-packet one-way delay: 111.997 ms

Loss rate: 0.00%

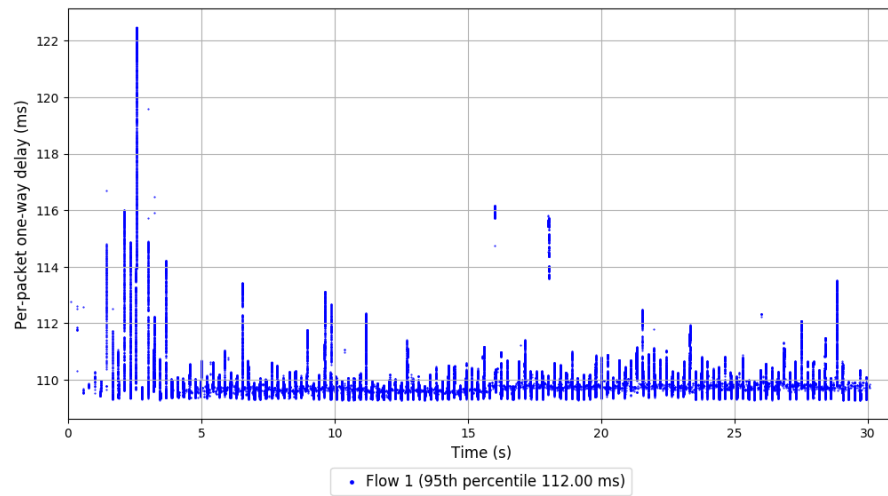
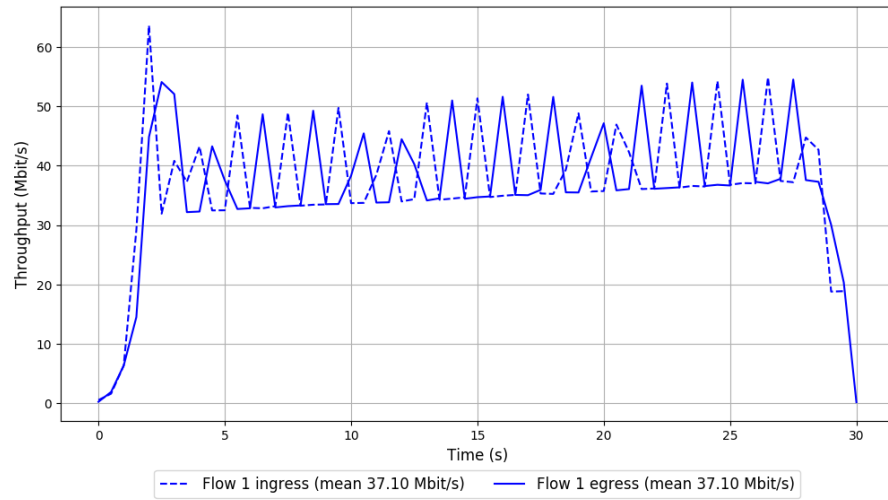
-- Flow 1:

Average throughput: 37.10 Mbit/s

95th percentile per-packet one-way delay: 111.997 ms

Loss rate: 0.00%

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



Run 10: Statistics of TCP Vegas

Start at: 2017-09-21 12:52:18

End at: 2017-09-21 12:52:48

# Below is generated by plot.py at 2017-09-21 13:55:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 40.04 Mbit/s

95th percentile per-packet one-way delay: 111.901 ms

Loss rate: 0.00%

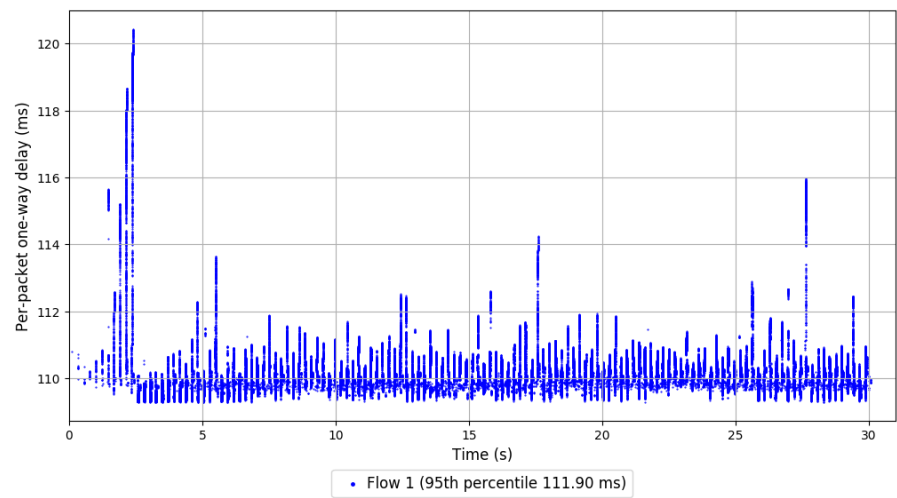
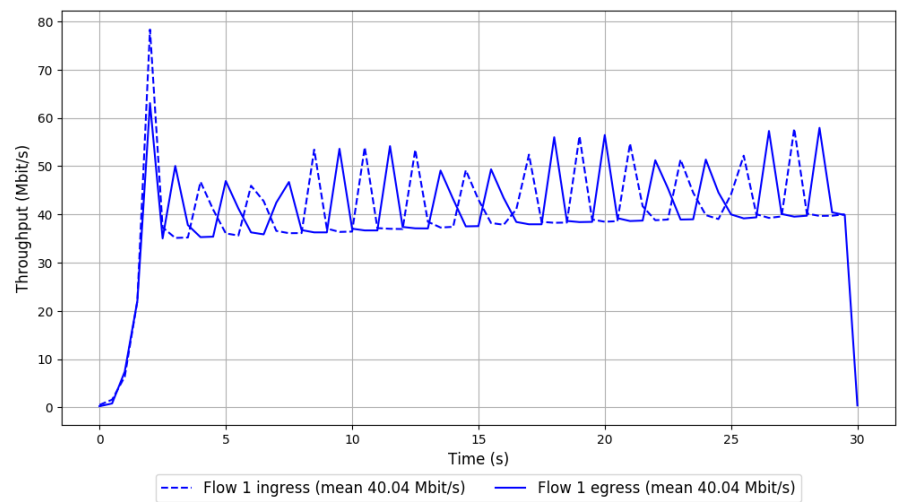
-- Flow 1:

Average throughput: 40.04 Mbit/s

95th percentile per-packet one-way delay: 111.901 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-09-21 11:18:59

End at: 2017-09-21 11:19:29

# Below is generated by plot.py at 2017-09-21 13:55:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 176.95 Mbit/s

95th percentile per-packet one-way delay: 140.727 ms

Loss rate: 0.01%

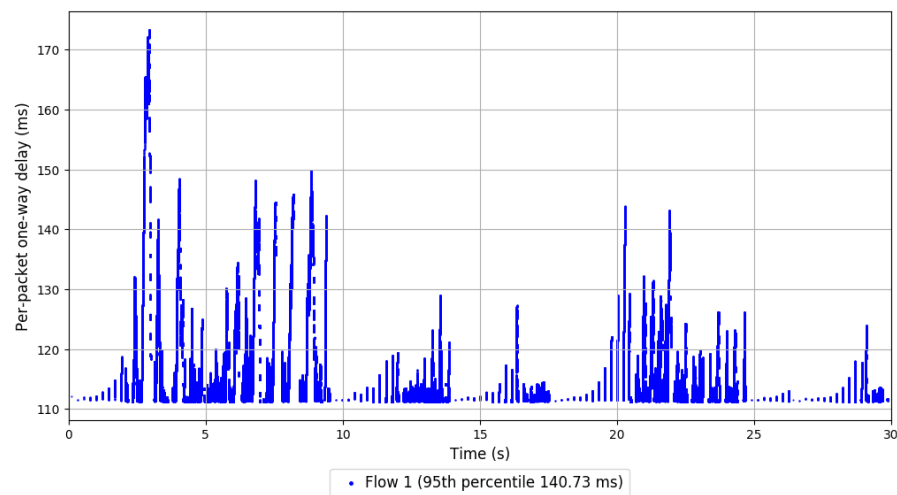
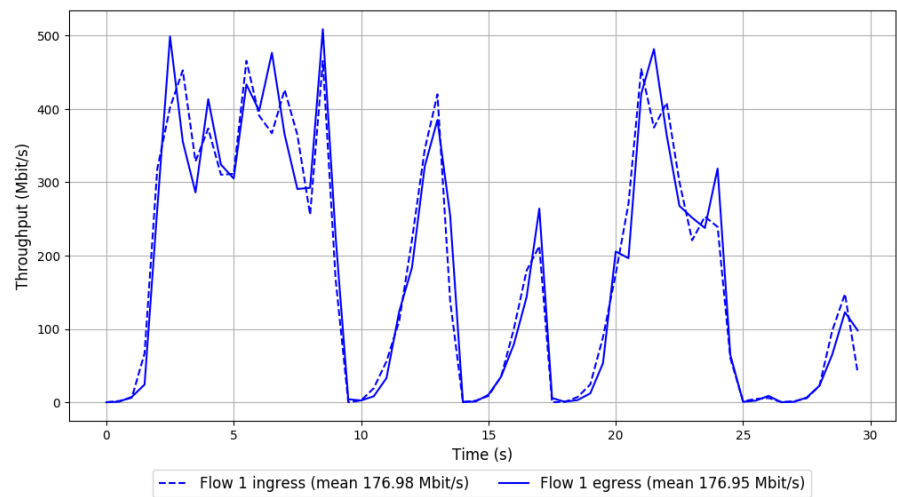
-- Flow 1:

Average throughput: 176.95 Mbit/s

95th percentile per-packet one-way delay: 140.727 ms

Loss rate: 0.01%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-09-21 11:29:50

End at: 2017-09-21 11:30:20

# Below is generated by plot.py at 2017-09-21 13:55:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 141.13 Mbit/s

95th percentile per-packet one-way delay: 136.709 ms

Loss rate: 0.01%

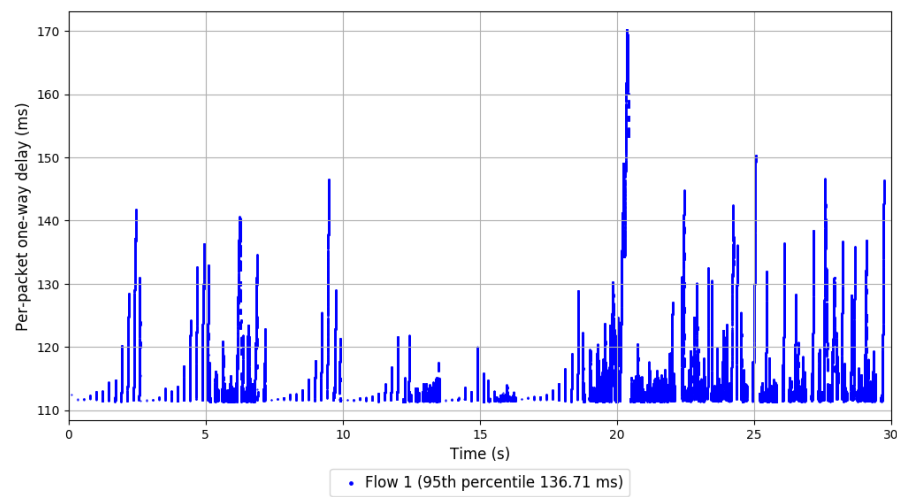
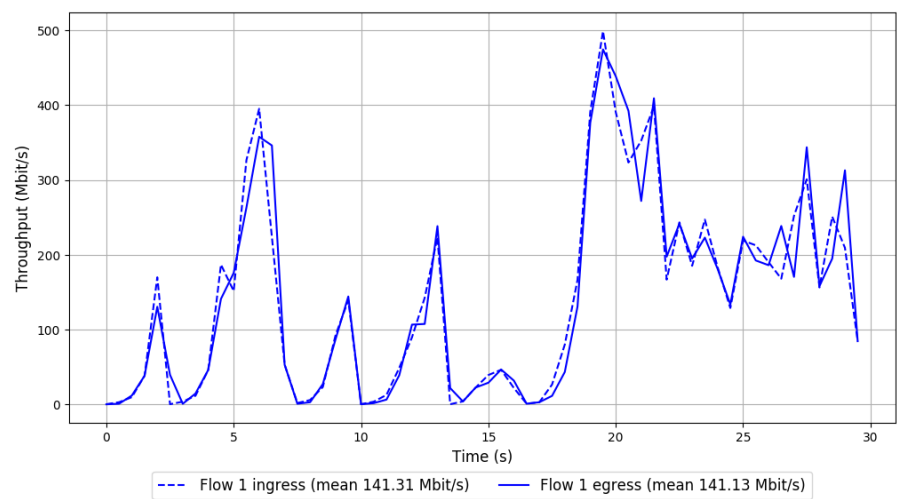
-- Flow 1:

Average throughput: 141.13 Mbit/s

95th percentile per-packet one-way delay: 136.709 ms

Loss rate: 0.01%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-09-21 11:40:30

End at: 2017-09-21 11:41:00

# Below is generated by plot.py at 2017-09-21 13:57:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 211.11 Mbit/s

95th percentile per-packet one-way delay: 241.837 ms

Loss rate: 1.82%

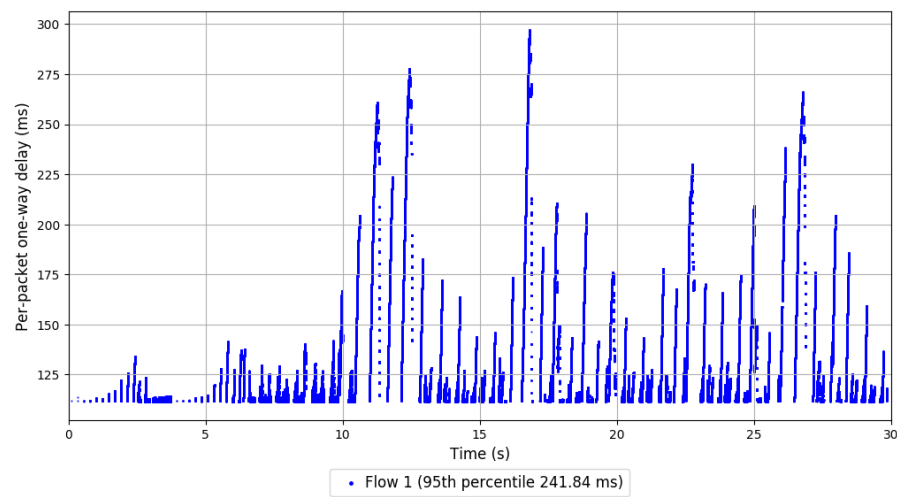
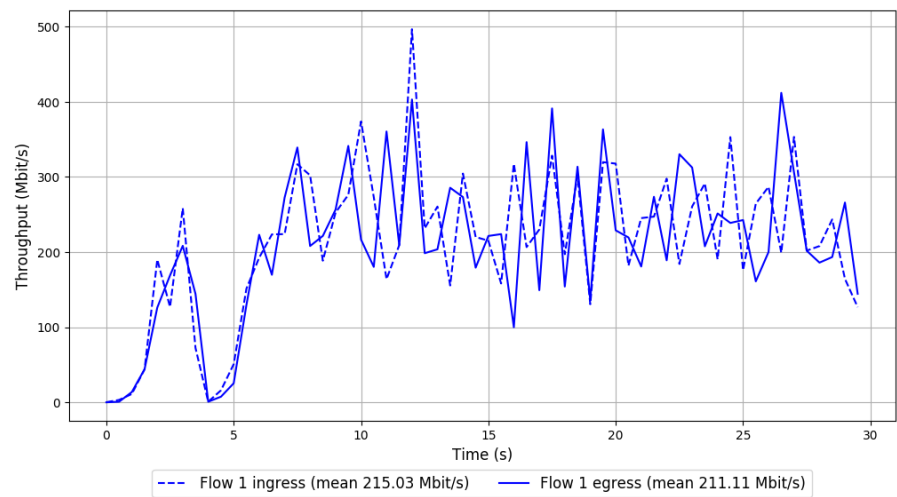
-- Flow 1:

Average throughput: 211.11 Mbit/s

95th percentile per-packet one-way delay: 241.837 ms

Loss rate: 1.82%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-09-21 11:51:19

End at: 2017-09-21 11:51:49

# Below is generated by plot.py at 2017-09-21 13:57:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 131.41 Mbit/s

95th percentile per-packet one-way delay: 270.286 ms

Loss rate: 7.46%

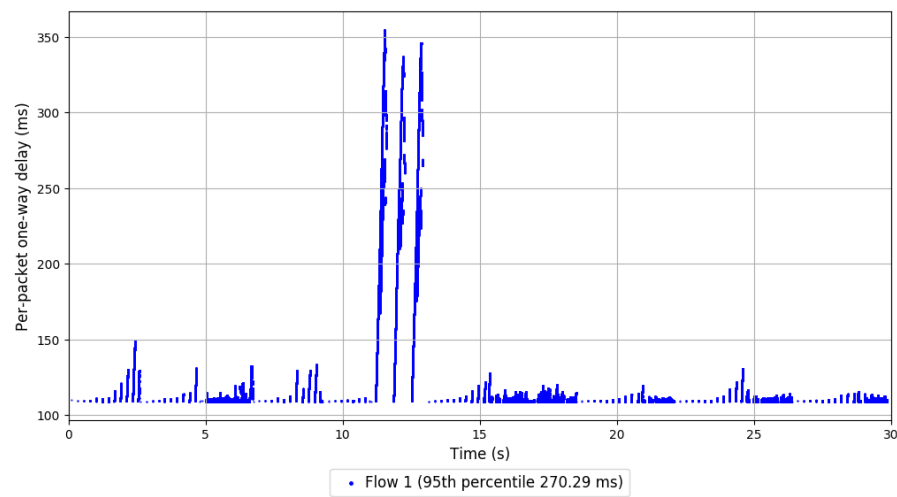
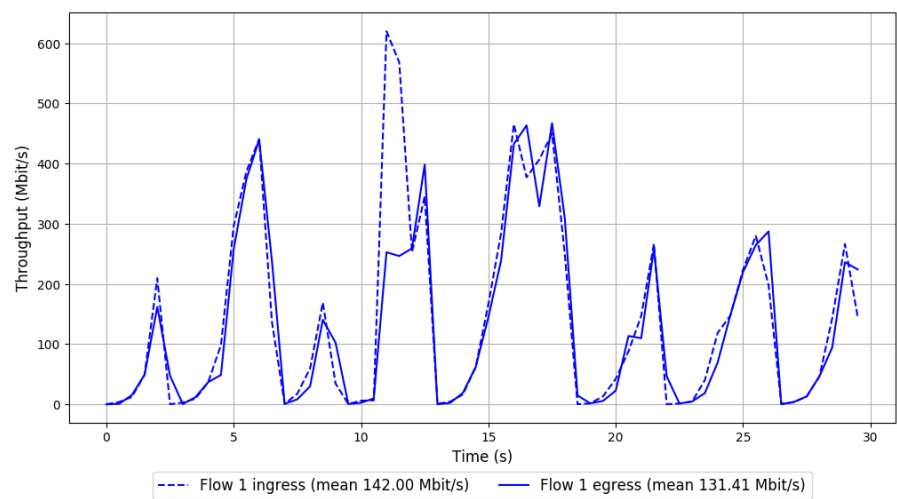
-- Flow 1:

Average throughput: 131.41 Mbit/s

95th percentile per-packet one-way delay: 270.286 ms

Loss rate: 7.46%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-09-21 12:02:12

End at: 2017-09-21 12:02:42

# Below is generated by plot.py at 2017-09-21 13:58:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 246.87 Mbit/s

95th percentile per-packet one-way delay: 191.505 ms

Loss rate: 0.50%

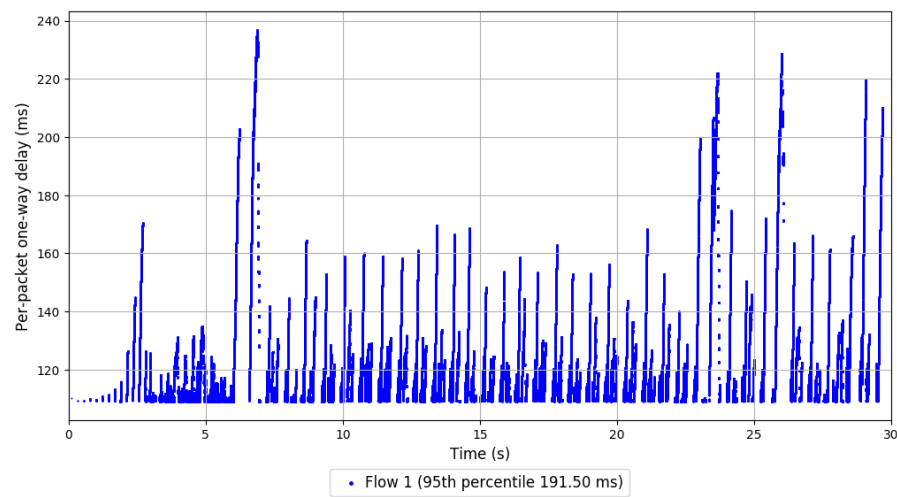
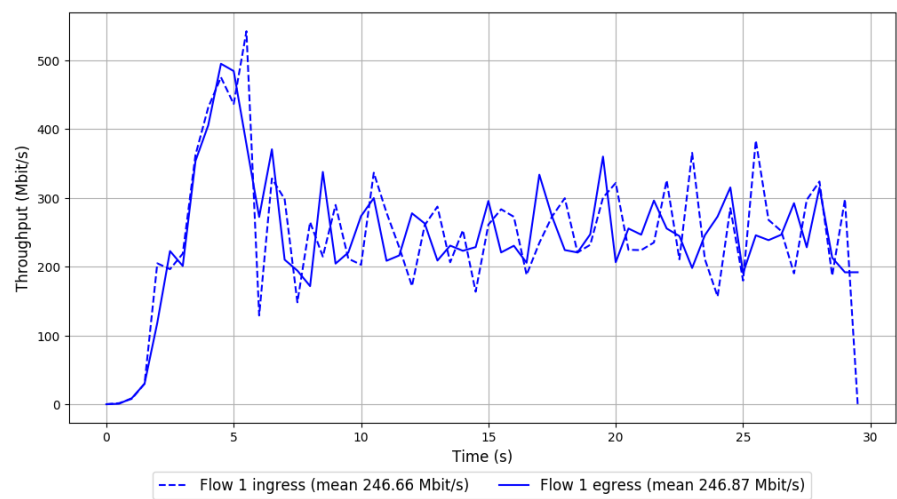
-- Flow 1:

Average throughput: 246.87 Mbit/s

95th percentile per-packet one-way delay: 191.505 ms

Loss rate: 0.50%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-09-21 12:13:36

End at: 2017-09-21 12:14:06

# Below is generated by plot.py at 2017-09-21 13:58:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 99.82 Mbit/s

95th percentile per-packet one-way delay: 138.145 ms

Loss rate: 0.03%

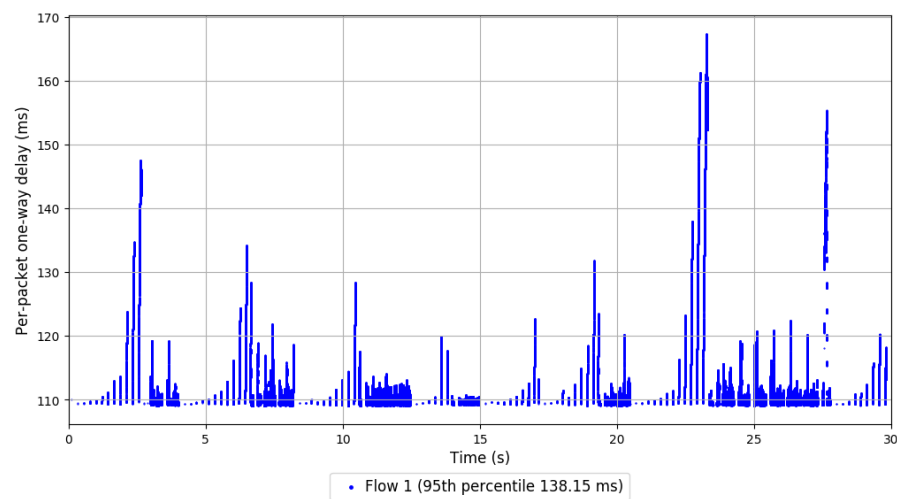
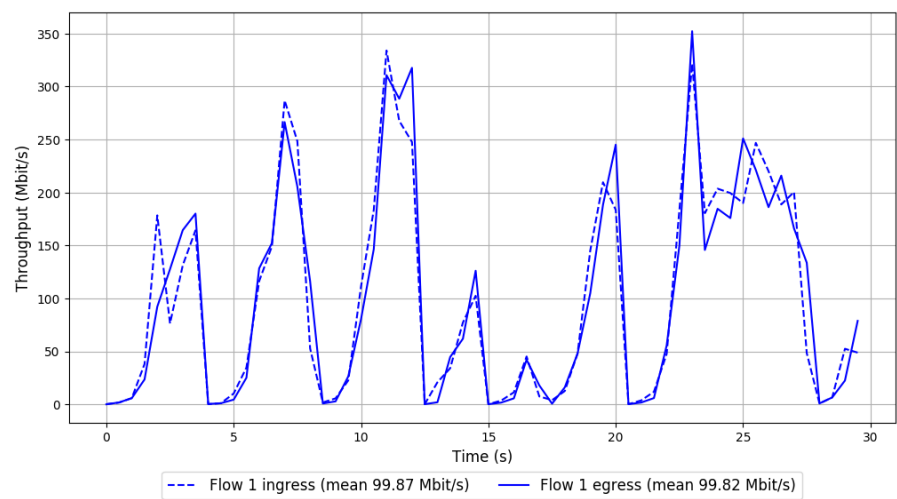
-- Flow 1:

Average throughput: 99.82 Mbit/s

95th percentile per-packet one-way delay: 138.145 ms

Loss rate: 0.03%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-09-21 12:24:22

End at: 2017-09-21 12:24:52

# Below is generated by plot.py at 2017-09-21 13:58:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 163.77 Mbit/s

95th percentile per-packet one-way delay: 177.805 ms

Loss rate: 0.19%

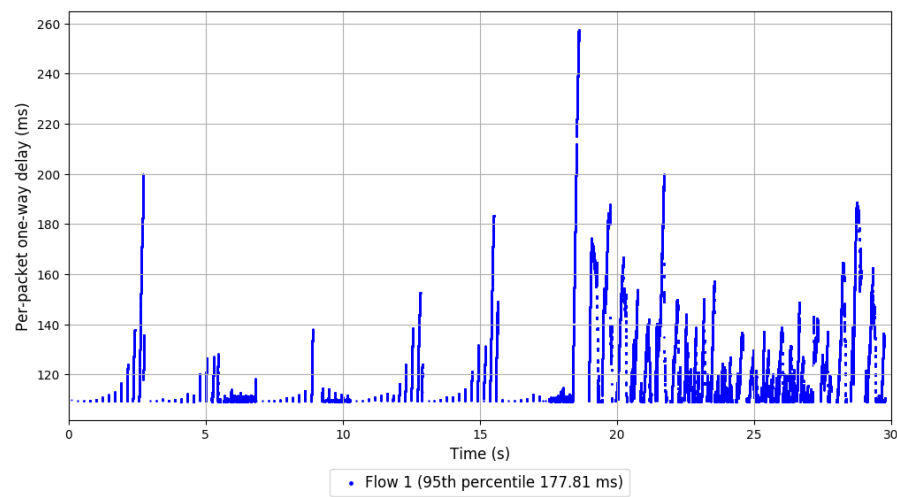
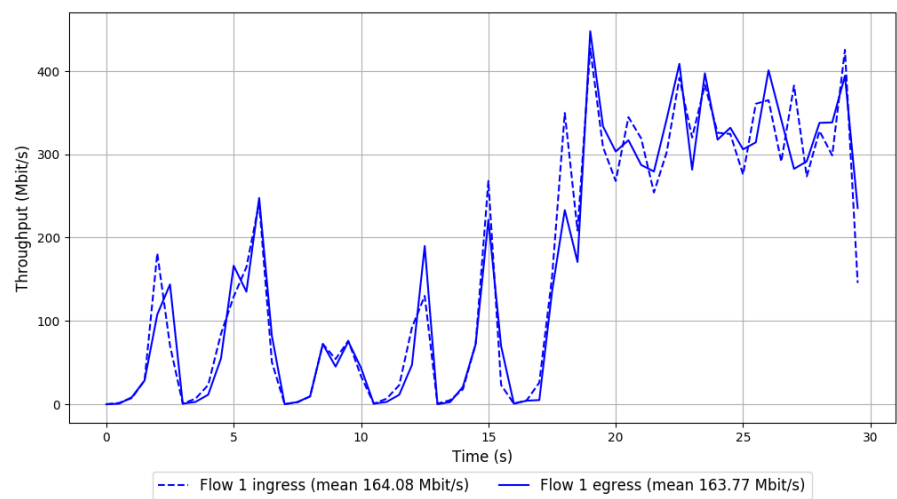
-- Flow 1:

Average throughput: 163.77 Mbit/s

95th percentile per-packet one-way delay: 177.805 ms

Loss rate: 0.19%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-09-21 12:35:35

End at: 2017-09-21 12:36:05

# Below is generated by plot.py at 2017-09-21 13:58:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 149.07 Mbit/s

95th percentile per-packet one-way delay: 132.133 ms

Loss rate: 0.02%

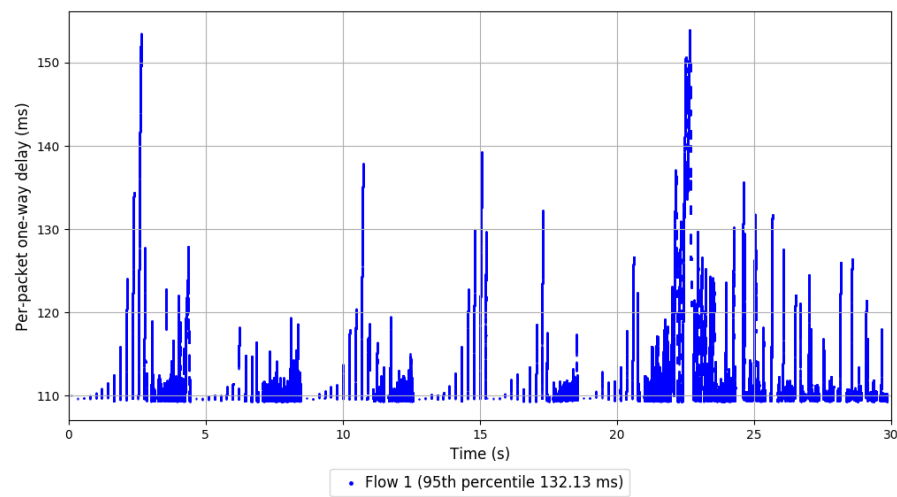
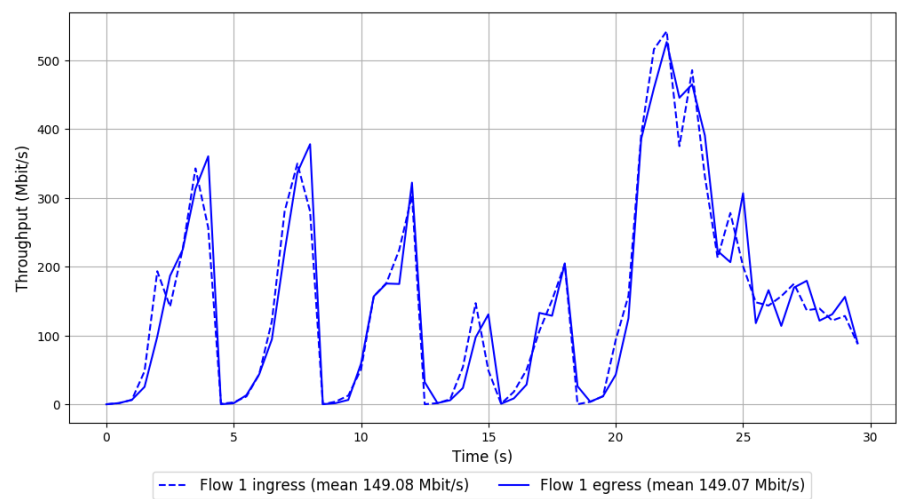
-- Flow 1:

Average throughput: 149.07 Mbit/s

95th percentile per-packet one-way delay: 132.133 ms

Loss rate: 0.02%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-09-21 12:46:52

End at: 2017-09-21 12:47:22

# Below is generated by plot.py at 2017-09-21 13:59:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 214.31 Mbit/s

95th percentile per-packet one-way delay: 226.845 ms

Loss rate: 0.81%

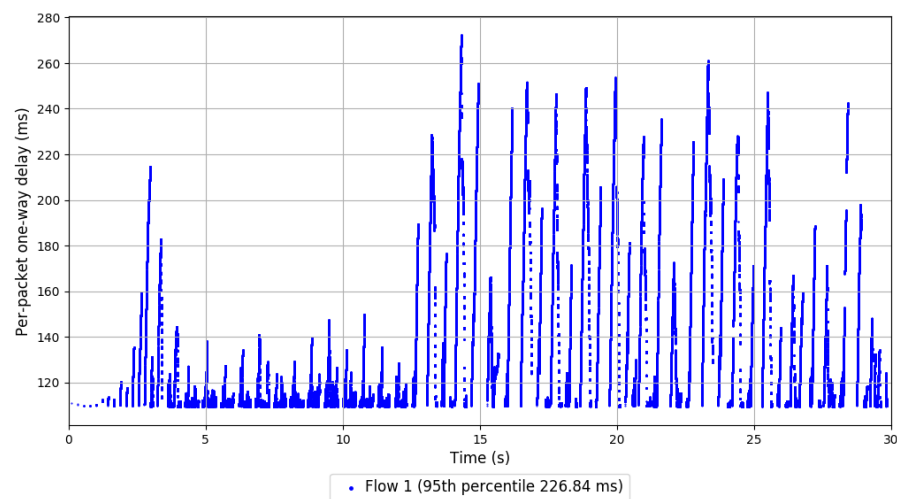
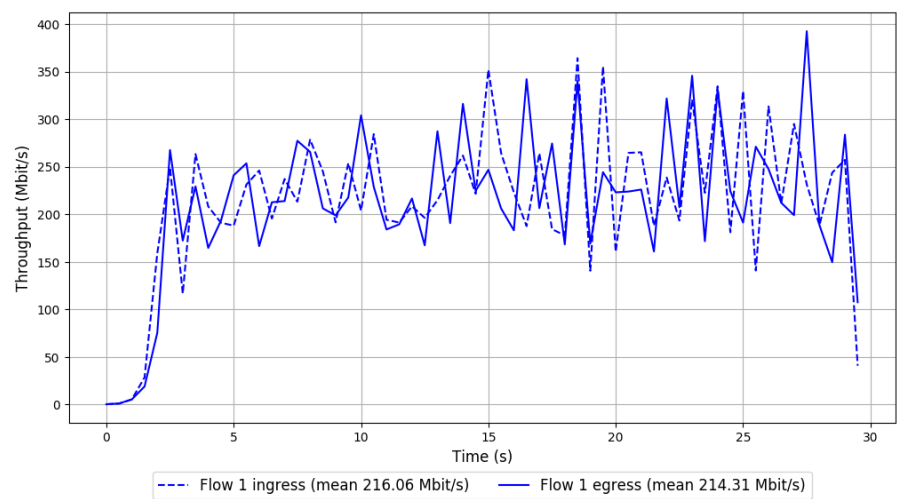
-- Flow 1:

Average throughput: 214.31 Mbit/s

95th percentile per-packet one-way delay: 226.845 ms

Loss rate: 0.81%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-09-21 12:57:50

End at: 2017-09-21 12:58:20

# Below is generated by plot.py at 2017-09-21 13:59:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 223.28 Mbit/s

95th percentile per-packet one-way delay: 193.952 ms

Loss rate: 0.06%

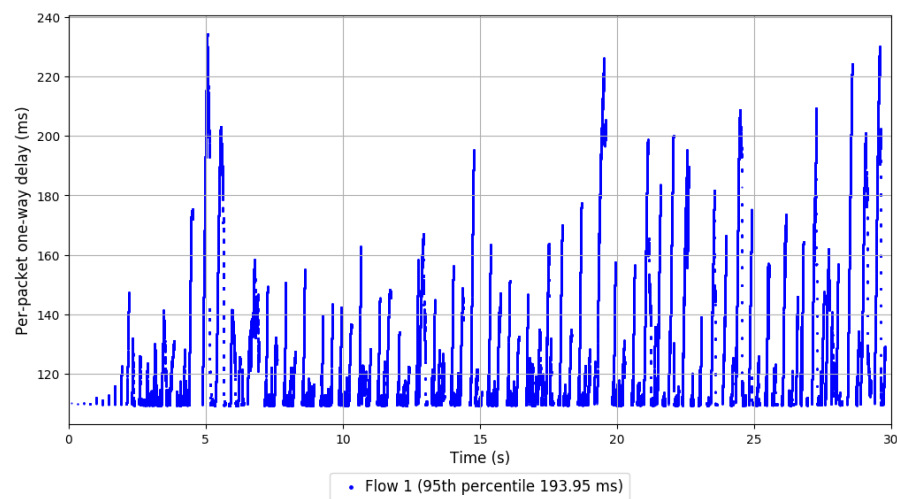
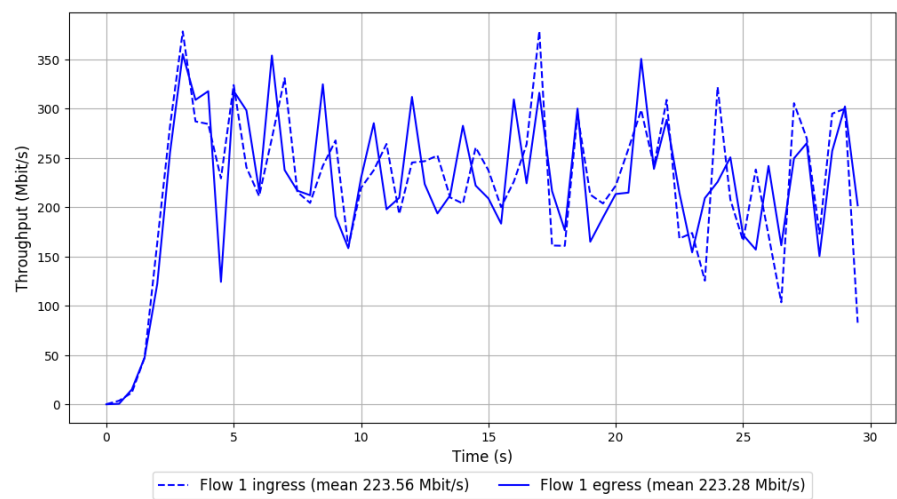
-- Flow 1:

Average throughput: 223.28 Mbit/s

95th percentile per-packet one-way delay: 193.952 ms

Loss rate: 0.06%

Run 10: Report of Verus — Data Link

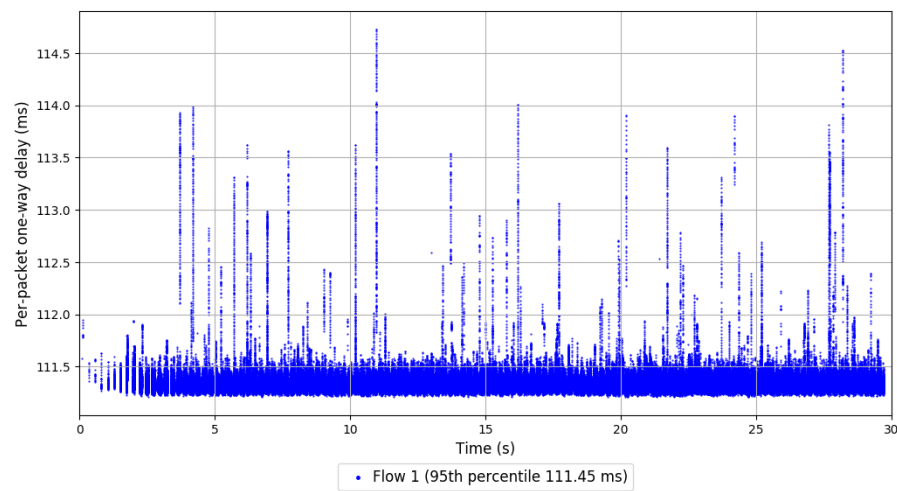
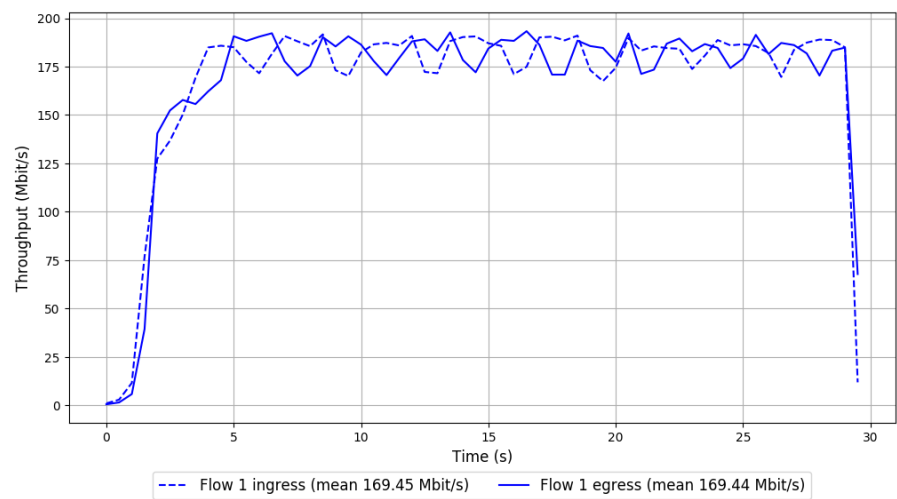


```
Run 1: Statistics of Indigo

Start at: 2017-09-21 11:19:53
End at: 2017-09-21 11:20:23

# Below is generated by plot.py at 2017-09-21 13:59:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 169.44 Mbit/s
95th percentile per-packet one-way delay: 111.447 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 169.44 Mbit/s
95th percentile per-packet one-way delay: 111.447 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-09-21 11:30:42

End at: 2017-09-21 11:31:12

# Below is generated by plot.py at 2017-09-21 14:00:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 170.48 Mbit/s

95th percentile per-packet one-way delay: 111.581 ms

Loss rate: 0.03%

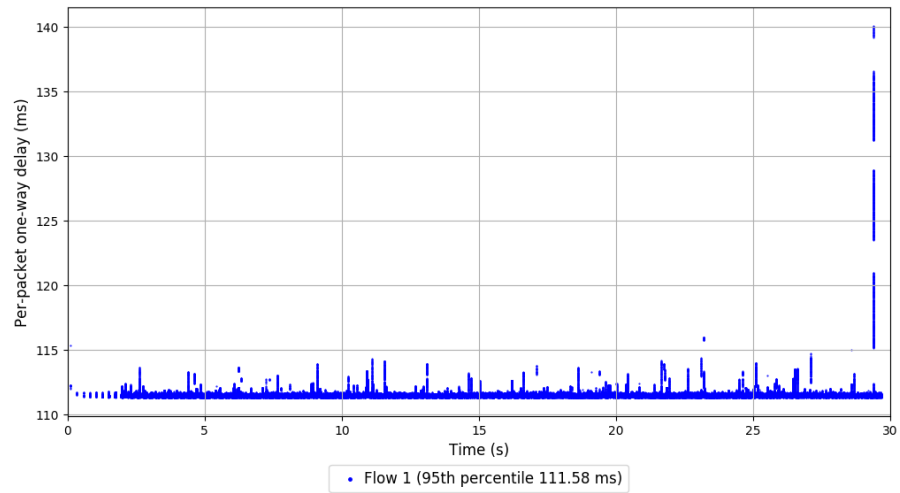
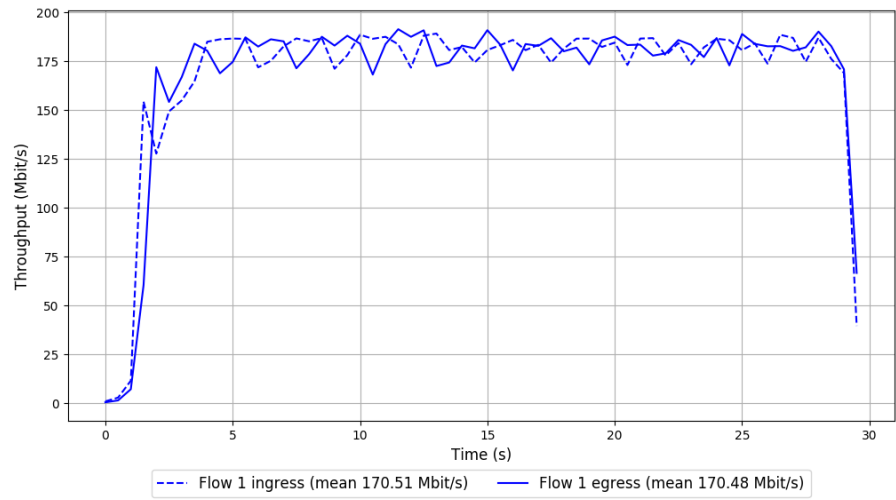
-- Flow 1:

Average throughput: 170.48 Mbit/s

95th percentile per-packet one-way delay: 111.581 ms

Loss rate: 0.03%

## Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-09-21 11:41:28

End at: 2017-09-21 11:41:58

# Below is generated by plot.py at 2017-09-21 14:00:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 171.07 Mbit/s

95th percentile per-packet one-way delay: 111.644 ms

Loss rate: 0.01%

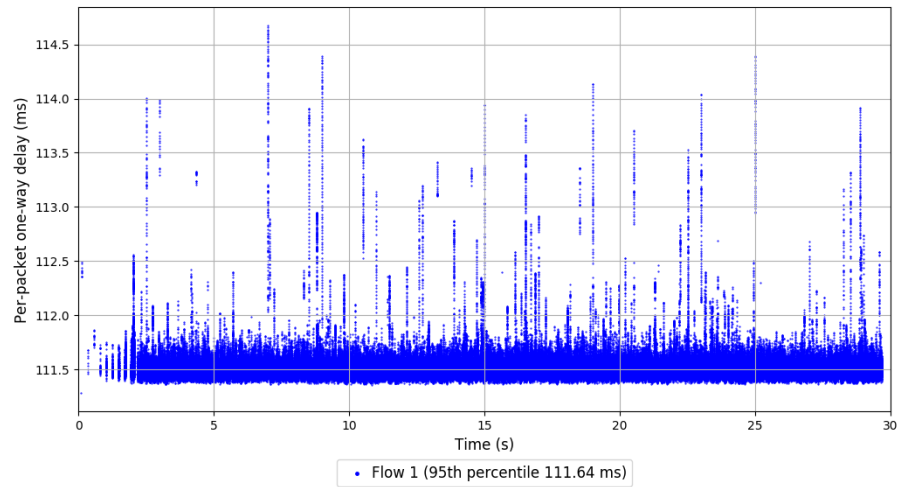
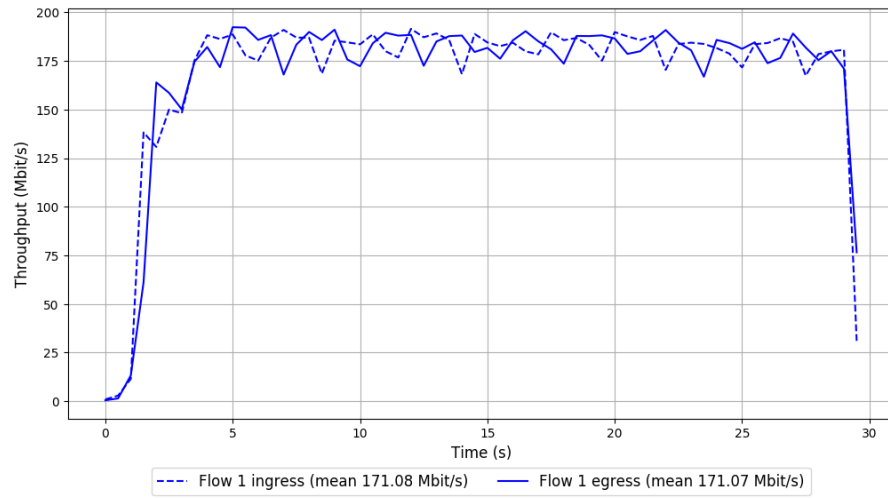
-- Flow 1:

Average throughput: 171.07 Mbit/s

95th percentile per-packet one-way delay: 111.644 ms

Loss rate: 0.01%

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



Run 4: Statistics of Indigo

Start at: 2017-09-21 11:52:11

End at: 2017-09-21 11:52:41

# Below is generated by plot.py at 2017-09-21 14:00:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 172.32 Mbit/s

95th percentile per-packet one-way delay: 109.083 ms

Loss rate: 0.00%

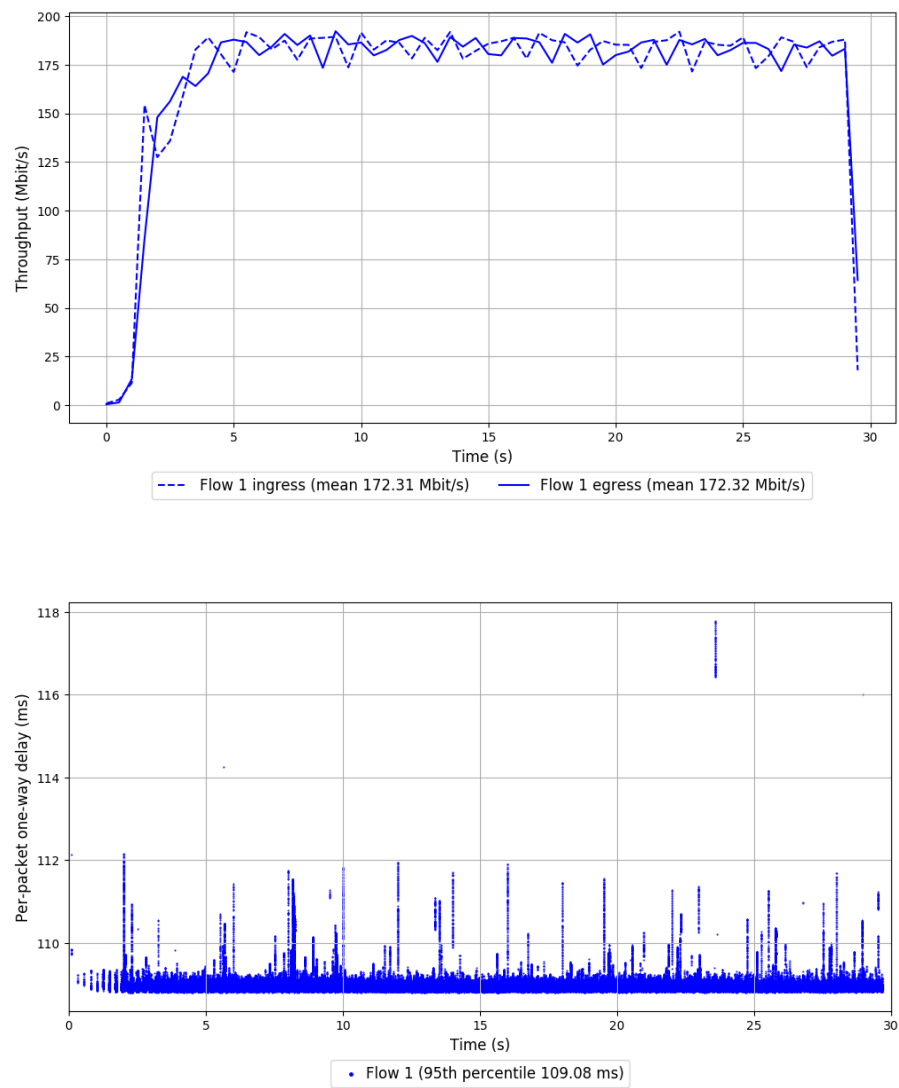
-- Flow 1:

Average throughput: 172.32 Mbit/s

95th percentile per-packet one-way delay: 109.083 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-09-21 12:03:12

End at: 2017-09-21 12:03:42

# Below is generated by plot.py at 2017-09-21 14:00:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 171.93 Mbit/s

95th percentile per-packet one-way delay: 109.277 ms

Loss rate: 0.00%

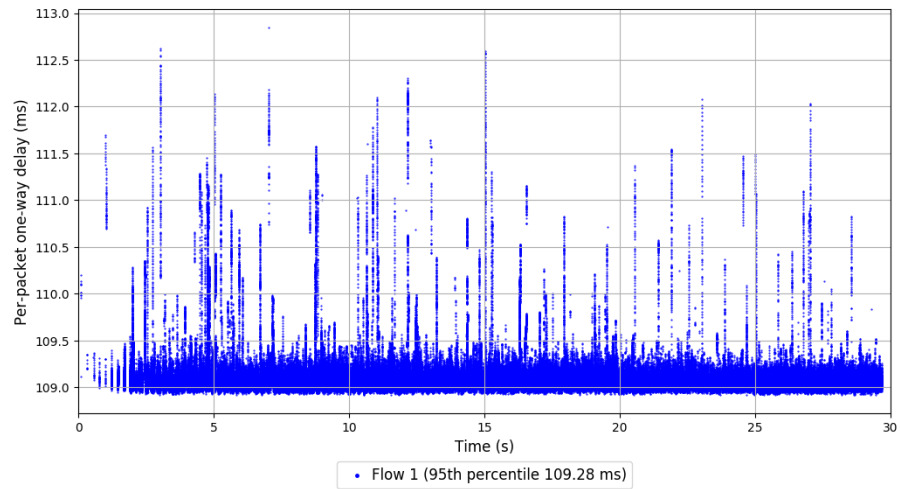
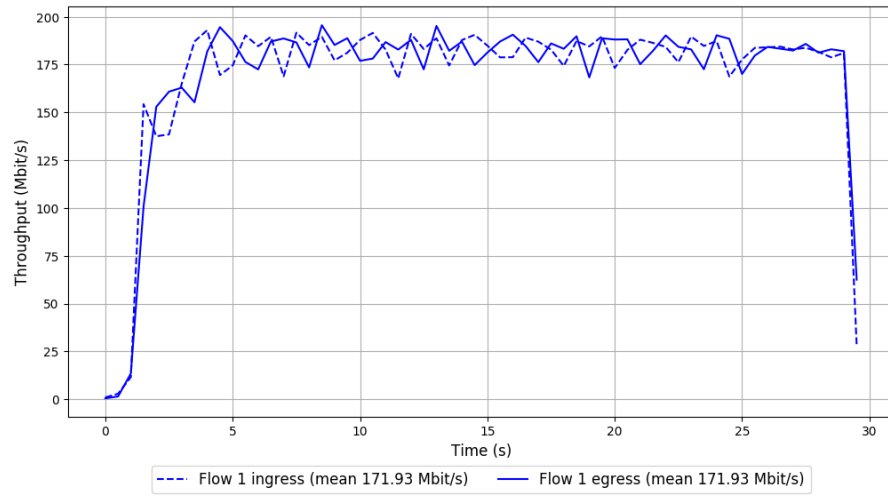
-- Flow 1:

Average throughput: 171.93 Mbit/s

95th percentile per-packet one-way delay: 109.277 ms

Loss rate: 0.00%

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



Run 6: Statistics of Indigo

Start at: 2017-09-21 12:14:25

End at: 2017-09-21 12:14:55

# Below is generated by plot.py at 2017-09-21 14:01:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 169.67 Mbit/s

95th percentile per-packet one-way delay: 109.321 ms

Loss rate: 0.00%

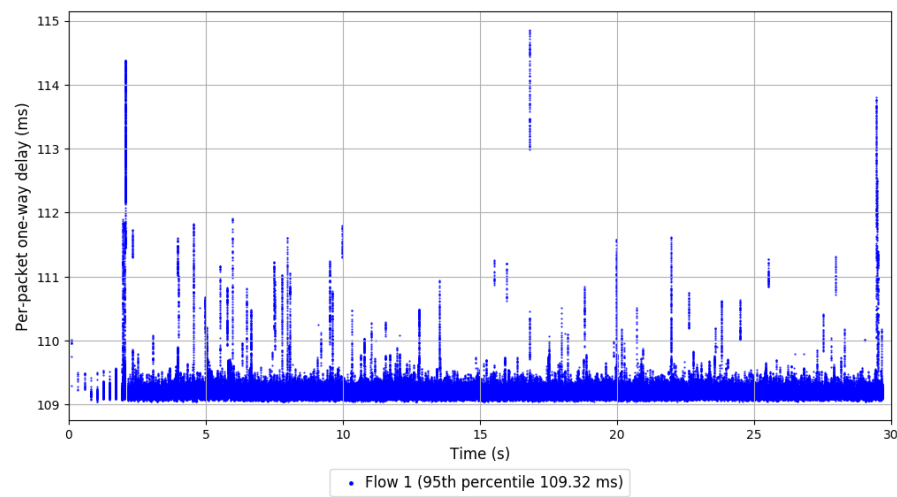
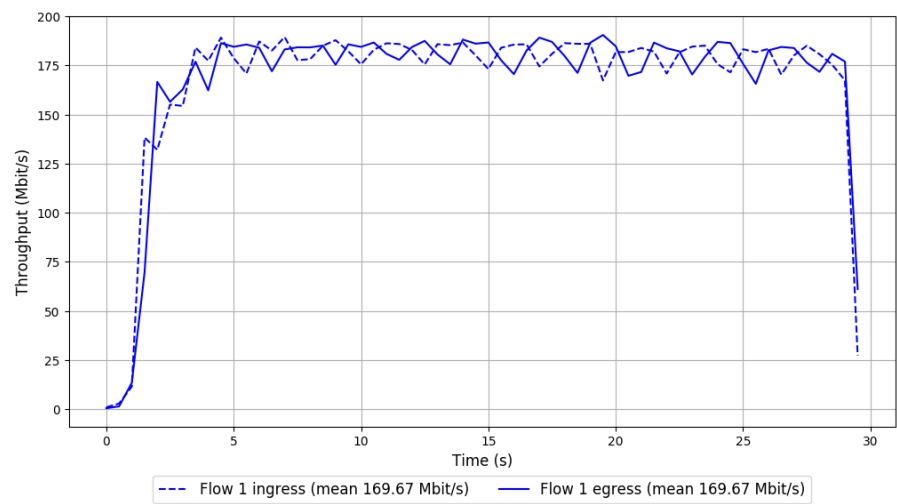
-- Flow 1:

Average throughput: 169.67 Mbit/s

95th percentile per-packet one-way delay: 109.321 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-09-21 12:25:15

End at: 2017-09-21 12:25:45

# Below is generated by plot.py at 2017-09-21 14:01:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 172.91 Mbit/s

95th percentile per-packet one-way delay: 109.481 ms

Loss rate: 0.00%

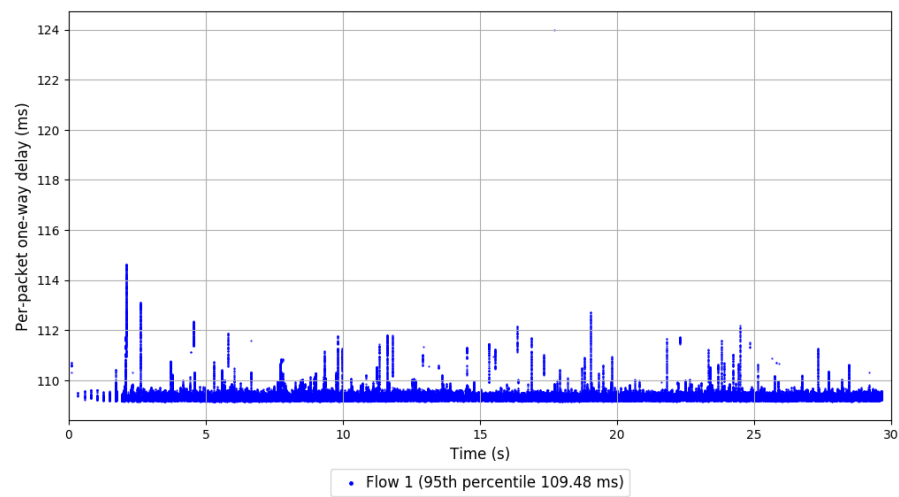
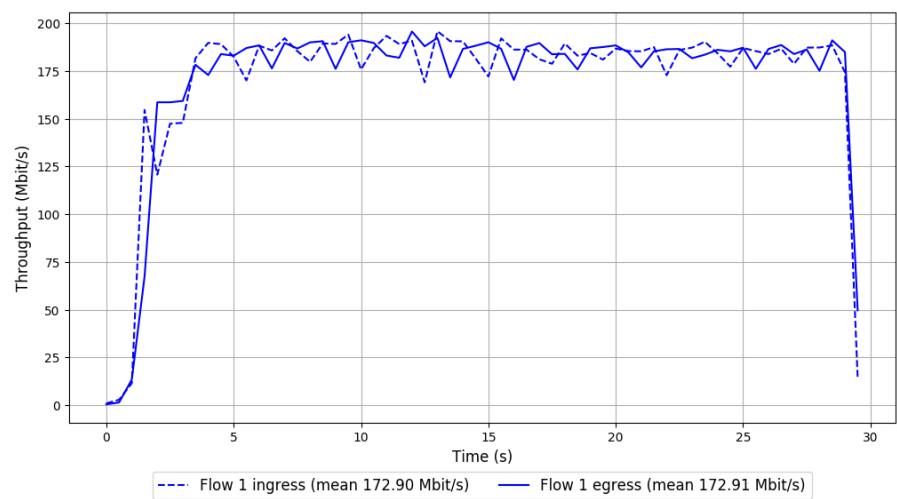
-- Flow 1:

Average throughput: 172.91 Mbit/s

95th percentile per-packet one-way delay: 109.481 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-09-21 12:36:29

End at: 2017-09-21 12:36:59

# Below is generated by plot.py at 2017-09-21 14:02:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 172.71 Mbit/s

95th percentile per-packet one-way delay: 109.576 ms

Loss rate: 0.00%

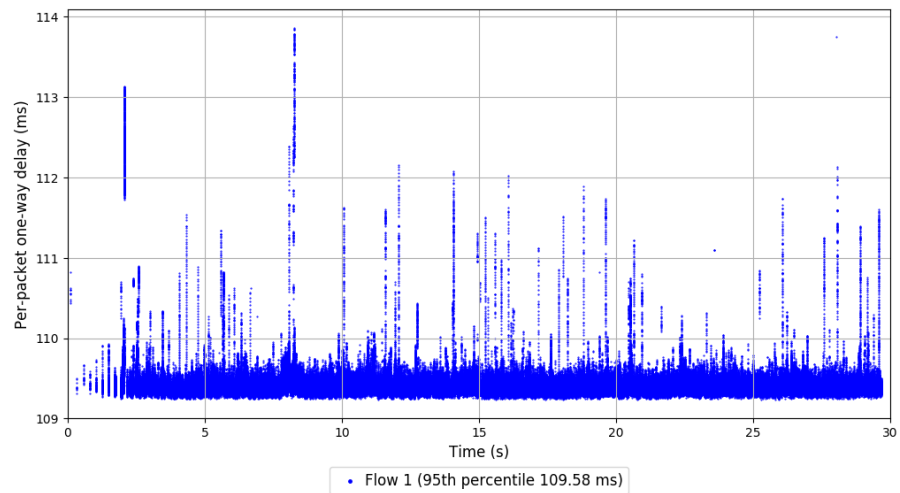
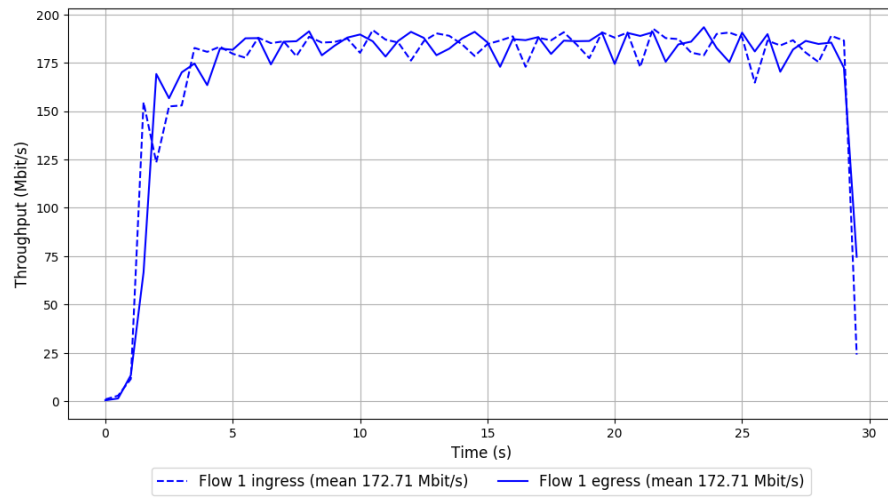
-- Flow 1:

Average throughput: 172.71 Mbit/s

95th percentile per-packet one-way delay: 109.576 ms

Loss rate: 0.00%

## Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-09-21 12:47:51

End at: 2017-09-21 12:48:21

# Below is generated by plot.py at 2017-09-21 14:02:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 169.14 Mbit/s

95th percentile per-packet one-way delay: 109.751 ms

Loss rate: 0.00%

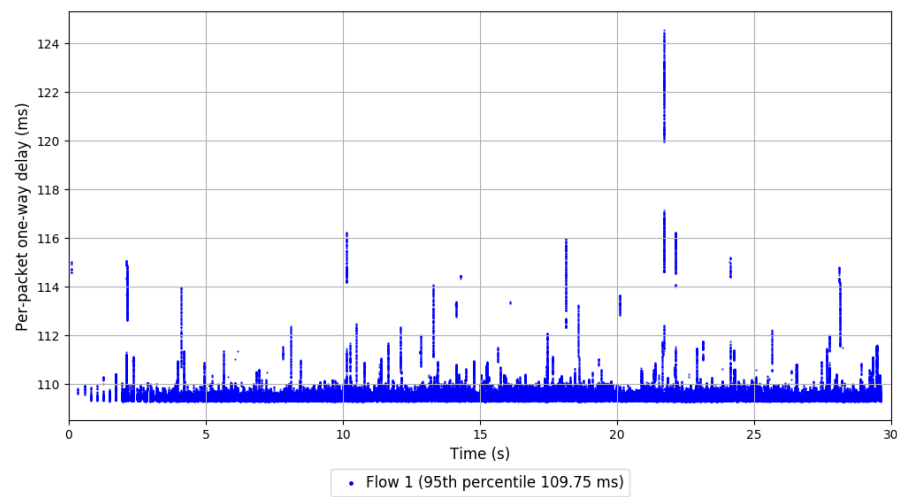
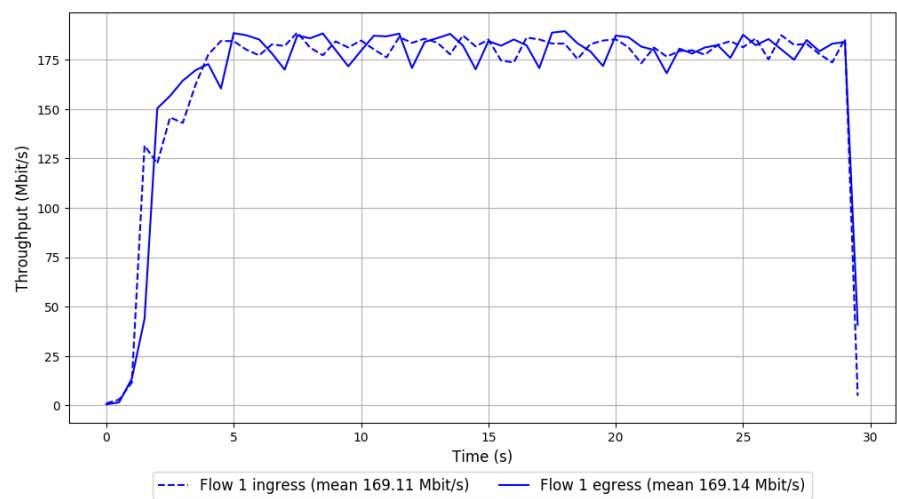
-- Flow 1:

Average throughput: 169.14 Mbit/s

95th percentile per-packet one-way delay: 109.751 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-09-21 12:58:49

End at: 2017-09-21 12:59:19

# Below is generated by plot.py at 2017-09-21 14:02:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 172.66 Mbit/s

95th percentile per-packet one-way delay: 109.796 ms

Loss rate: 0.00%

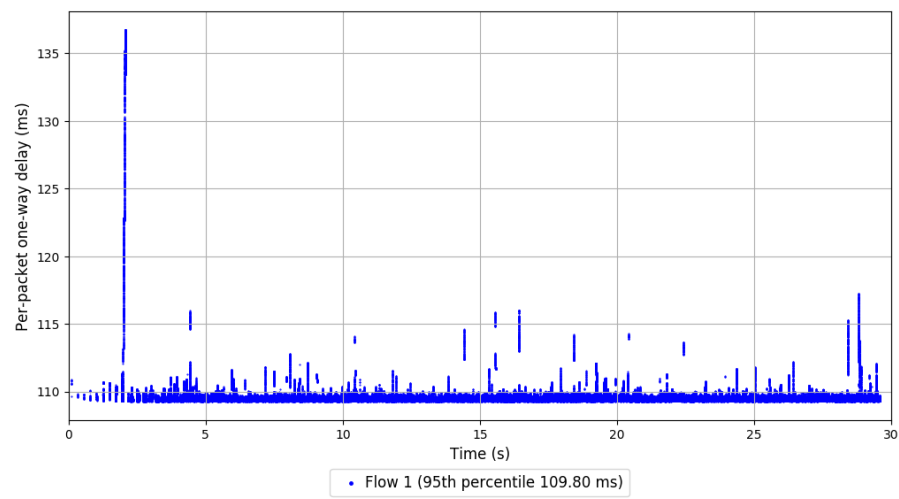
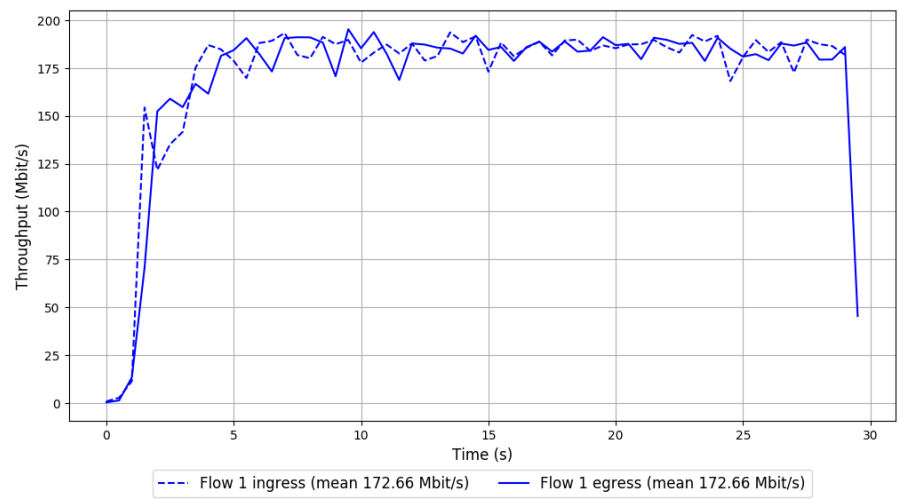
-- Flow 1:

Average throughput: 172.66 Mbit/s

95th percentile per-packet one-way delay: 109.796 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

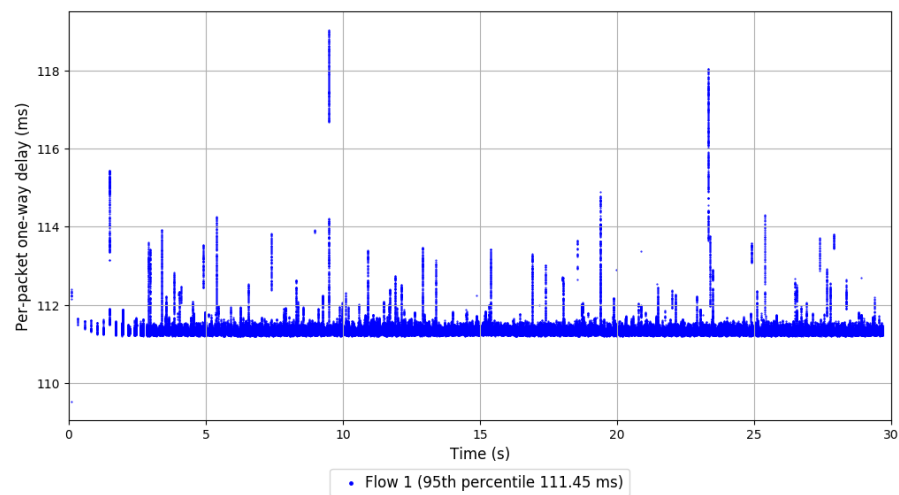
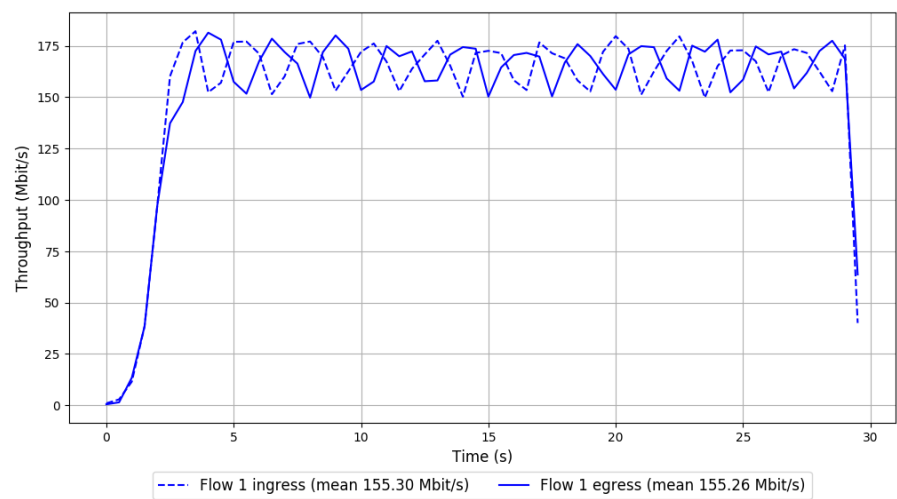


```
Run 1: Statistics of Indigo-calib

Start at: 2017-09-21 11:18:06
End at: 2017-09-21 11:18:36

# Below is generated by plot.py at 2017-09-21 14:03:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 155.26 Mbit/s
95th percentile per-packet one-way delay: 111.448 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 155.26 Mbit/s
95th percentile per-packet one-way delay: 111.448 ms
Loss rate: 0.02%
```

Run 1: Report of Indigo-calib — Data Link

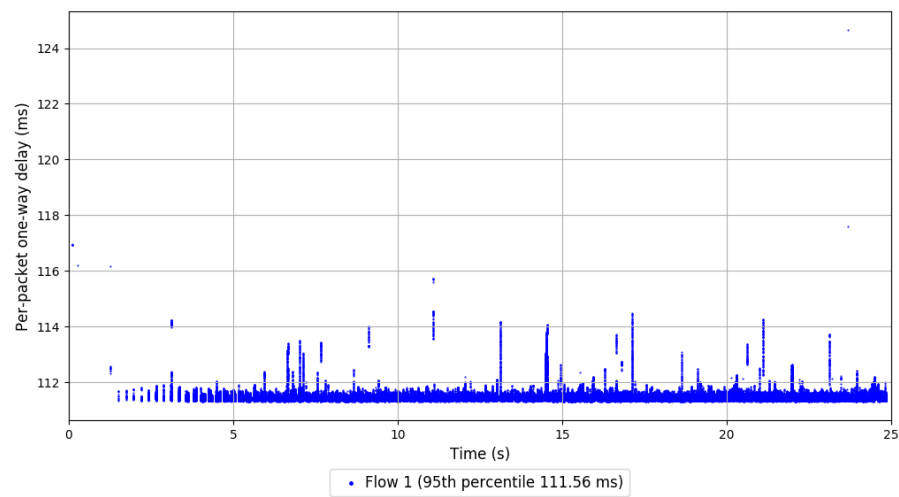
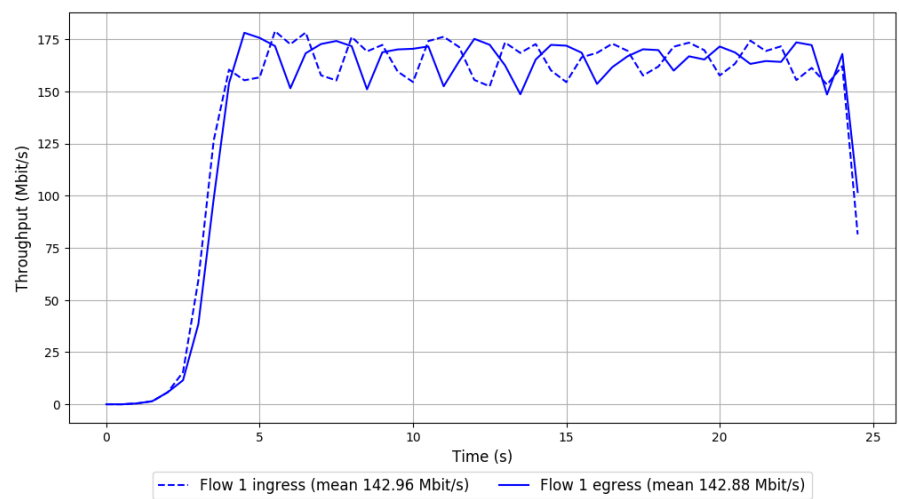


```
Run 2: Statistics of Indigo-calib

Start at: 2017-09-21 11:28:59
End at: 2017-09-21 11:29:29

# Below is generated by plot.py at 2017-09-21 14:03:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 142.88 Mbit/s
95th percentile per-packet one-way delay: 111.562 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 142.88 Mbit/s
95th percentile per-packet one-way delay: 111.562 ms
Loss rate: 0.09%
```

Run 2: Report of Indigo-calib — Data Link

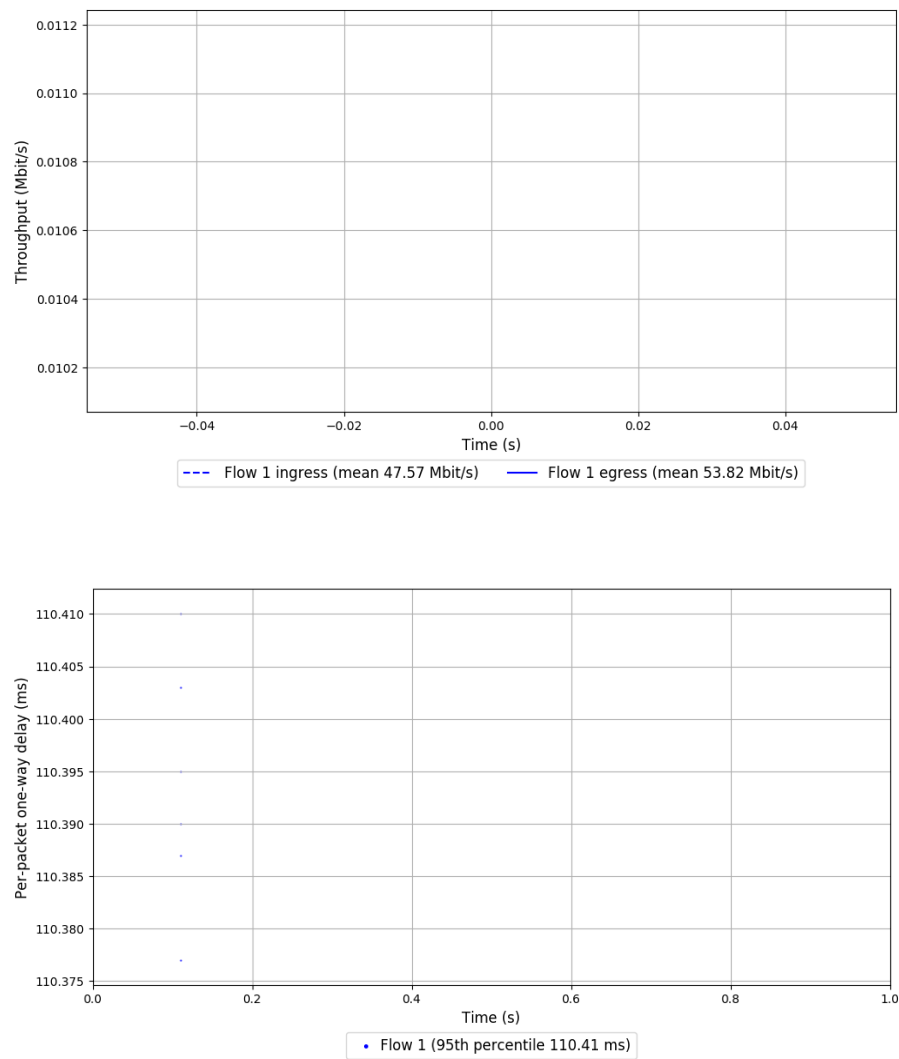


Run 3: Statistics of Indigo-calib

Start at: 2017-09-21 11:39:50

End at: 2017-09-21 11:40:20

Run 3: Report of Indigo-calib — Data Link

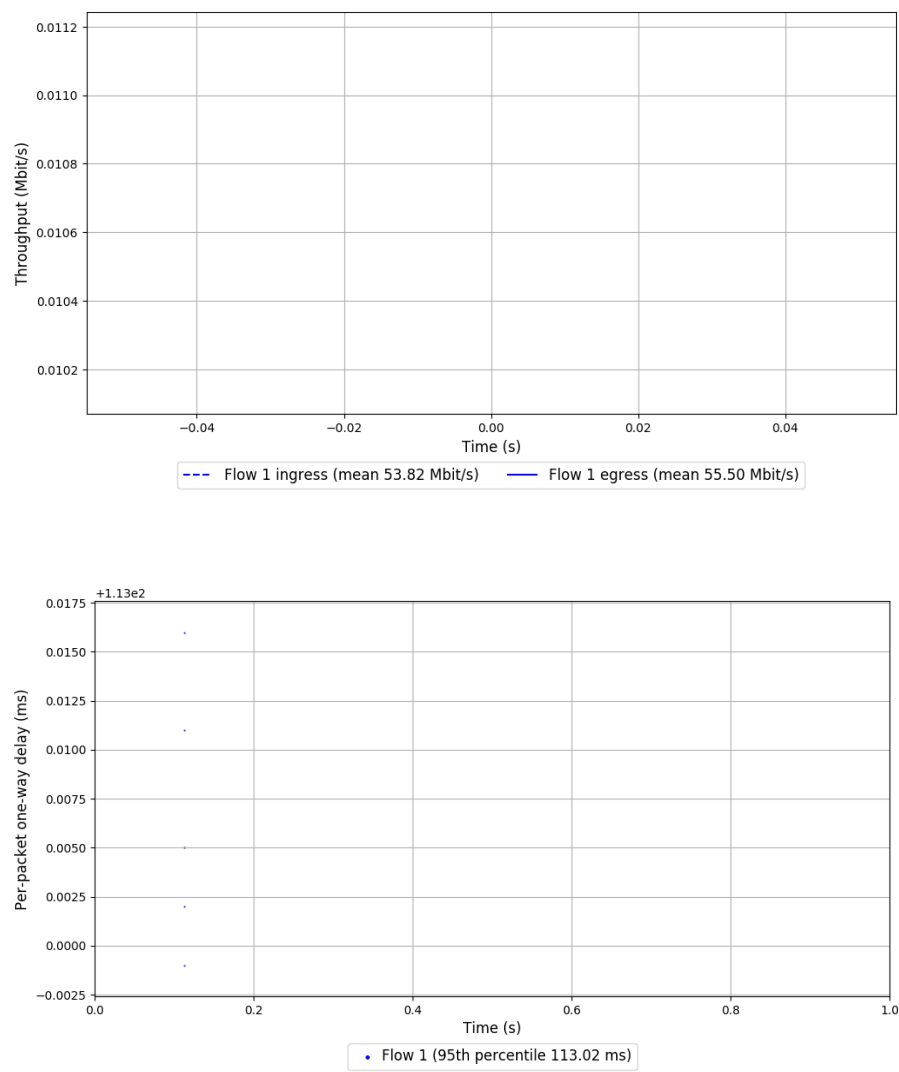


Run 4: Statistics of Indigo-calib

Start at: 2017-09-21 11:50:39

End at: 2017-09-21 11:51:09

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-09-21 12:01:18

End at: 2017-09-21 12:01:48

# Below is generated by plot.py at 2017-09-21 14:03:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 155.35 Mbit/s

95th percentile per-packet one-way delay: 109.189 ms

Loss rate: 0.00%

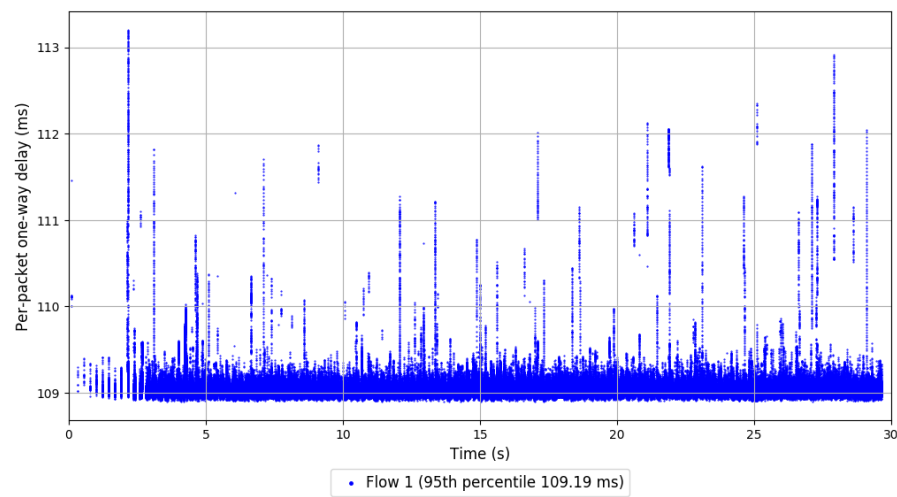
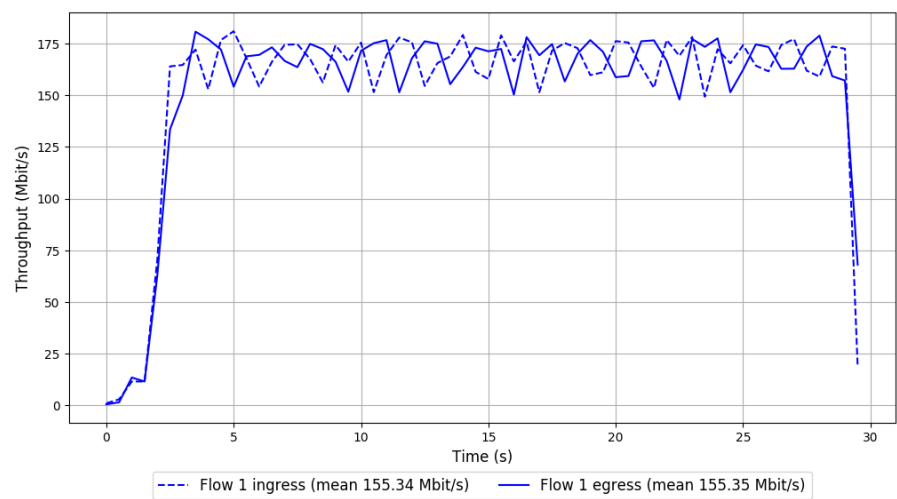
-- Flow 1:

Average throughput: 155.35 Mbit/s

95th percentile per-packet one-way delay: 109.189 ms

Loss rate: 0.00%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-09-21 12:12:43

End at: 2017-09-21 12:13:13

# Below is generated by plot.py at 2017-09-21 14:04:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 153.93 Mbit/s

95th percentile per-packet one-way delay: 109.315 ms

Loss rate: 0.00%

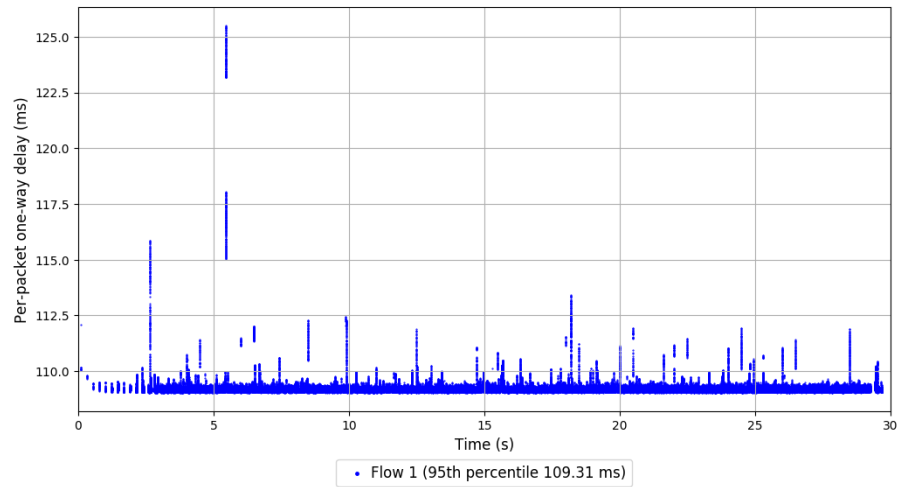
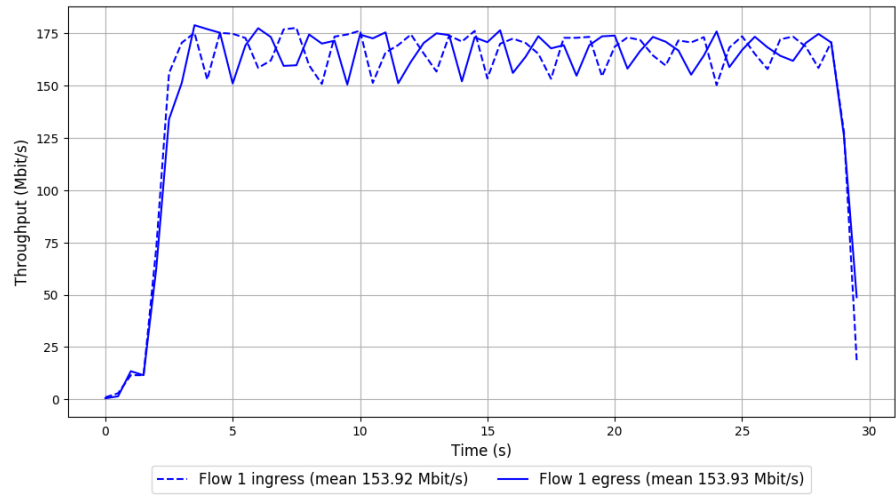
-- Flow 1:

Average throughput: 153.93 Mbit/s

95th percentile per-packet one-way delay: 109.315 ms

Loss rate: 0.00%

## Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-09-21 12:23:31

End at: 2017-09-21 12:24:01

# Below is generated by plot.py at 2017-09-21 14:04:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 144.35 Mbit/s

95th percentile per-packet one-way delay: 109.479 ms

Loss rate: 0.00%

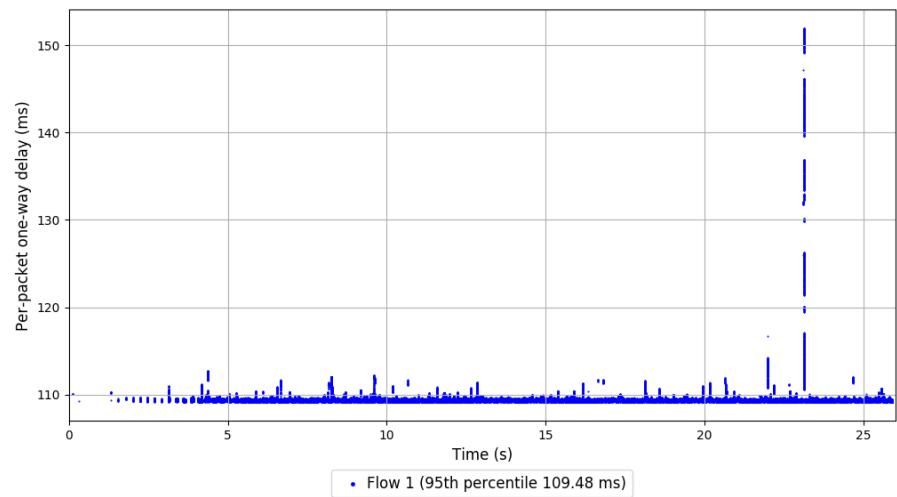
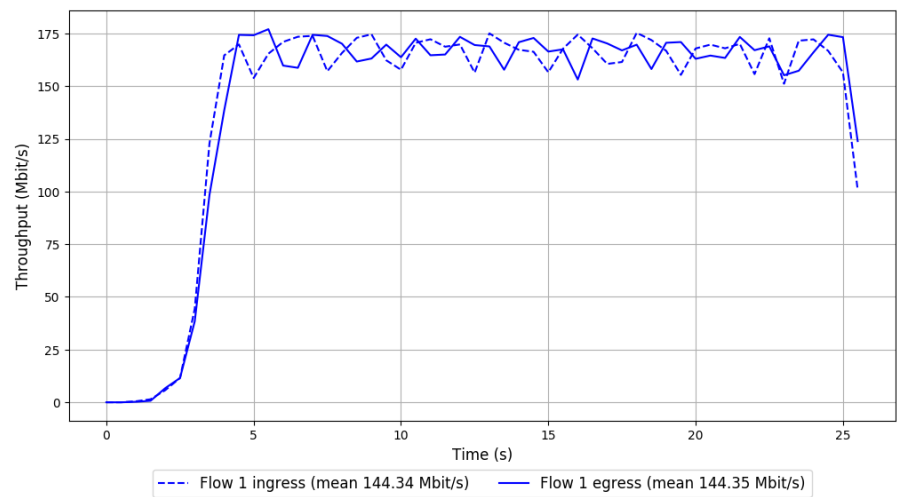
-- Flow 1:

Average throughput: 144.35 Mbit/s

95th percentile per-packet one-way delay: 109.479 ms

Loss rate: 0.00%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-09-21 12:34:42

End at: 2017-09-21 12:35:12

# Below is generated by plot.py at 2017-09-21 14:04:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 154.73 Mbit/s

95th percentile per-packet one-way delay: 109.582 ms

Loss rate: 0.00%

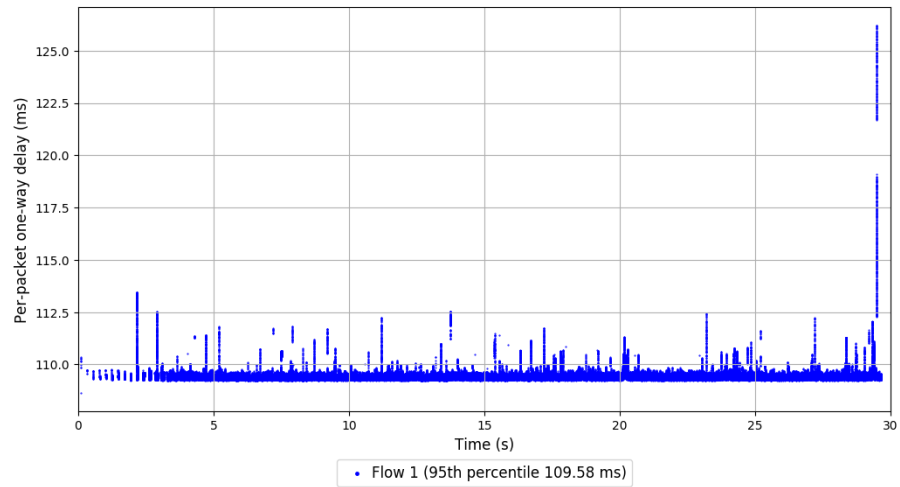
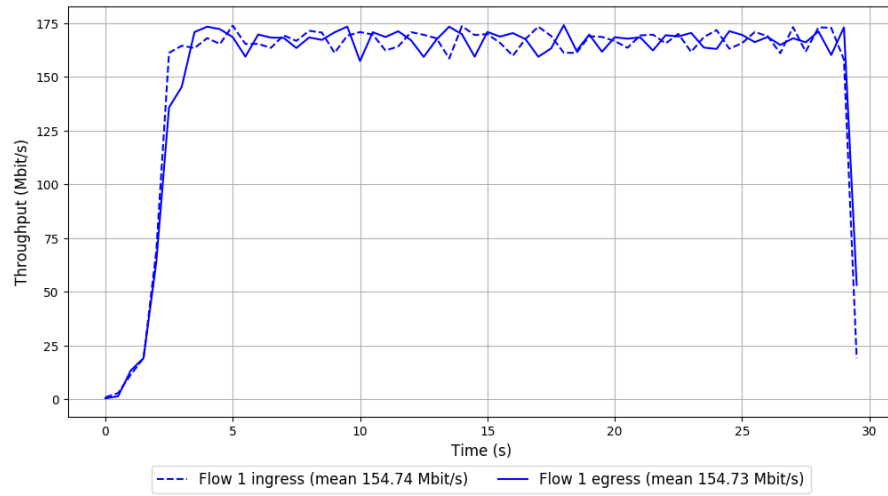
-- Flow 1:

Average throughput: 154.73 Mbit/s

95th percentile per-packet one-way delay: 109.582 ms

Loss rate: 0.00%

## Run 8: Report of Indigo-calib — Data Link

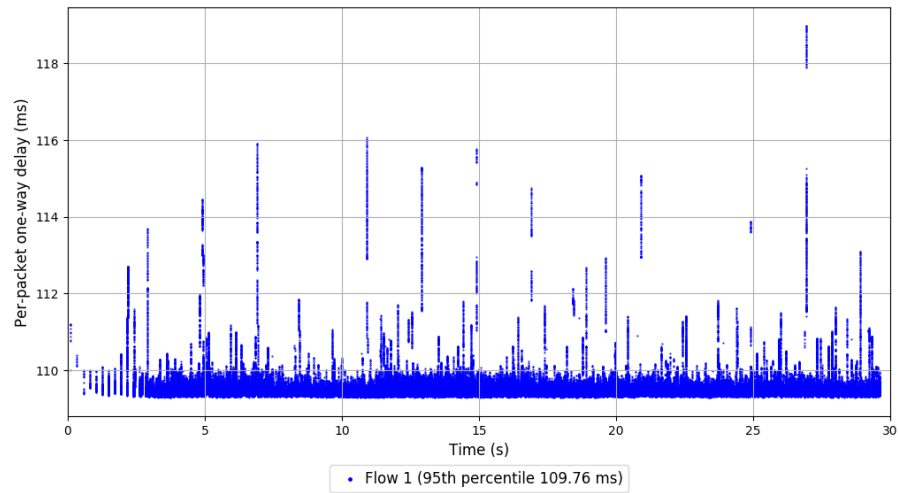
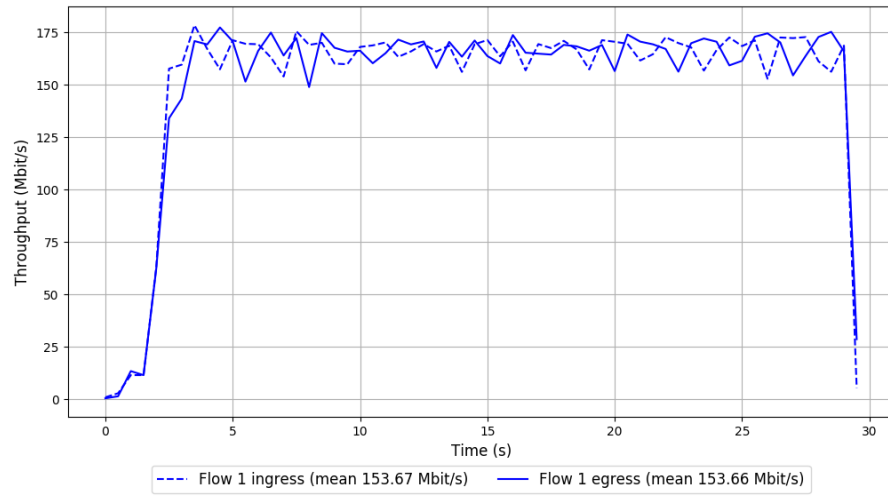


```
Run 9: Statistics of Indigo-calib

Start at: 2017-09-21 12:45:58
End at: 2017-09-21 12:46:28

# Below is generated by plot.py at 2017-09-21 14:04:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 153.66 Mbit/s
95th percentile per-packet one-way delay: 109.764 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 153.66 Mbit/s
95th percentile per-packet one-way delay: 109.764 ms
Loss rate: 0.00%
```

### Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-09-21 12:56:57

End at: 2017-09-21 12:57:27

# Below is generated by plot.py at 2017-09-21 14:04:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 156.43 Mbit/s

95th percentile per-packet one-way delay: 109.746 ms

Loss rate: 0.01%

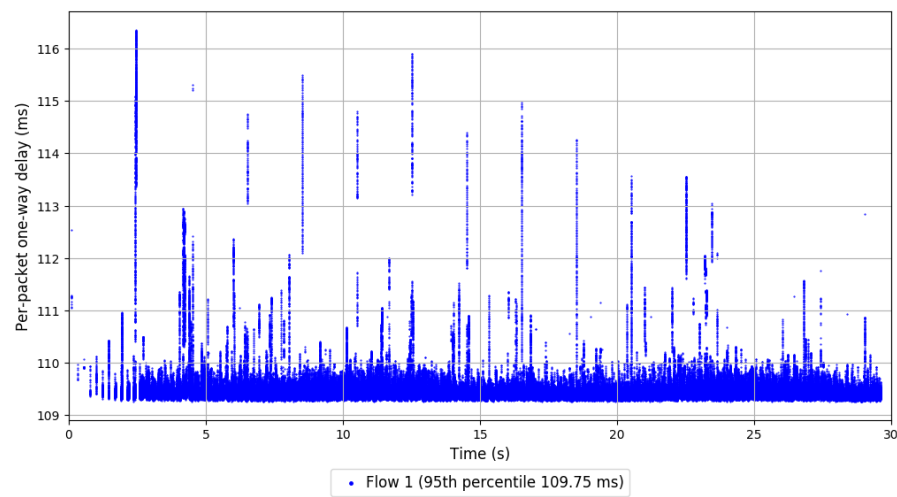
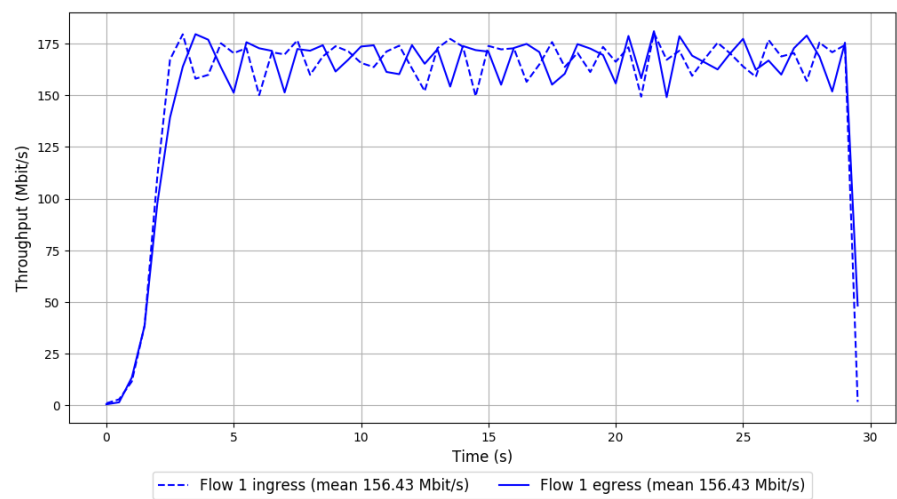
-- Flow 1:

Average throughput: 156.43 Mbit/s

95th percentile per-packet one-way delay: 109.746 ms

Loss rate: 0.01%

Run 10: Report of Indigo-calib — Data Link

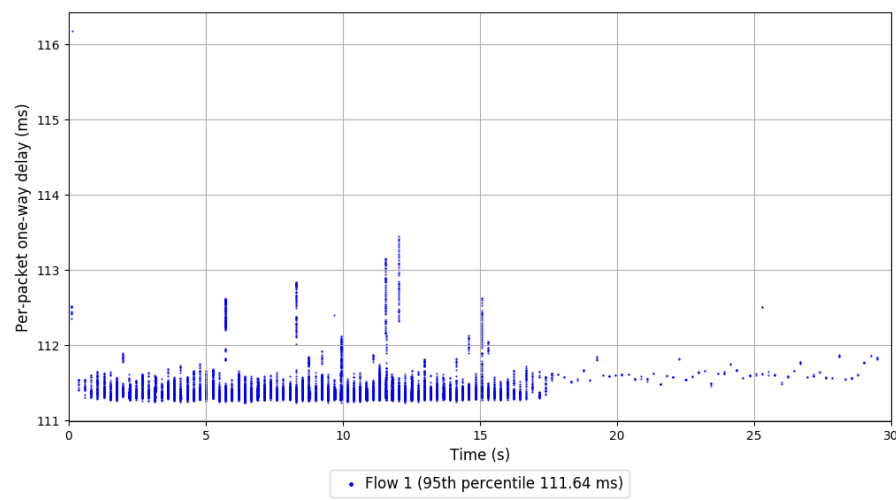
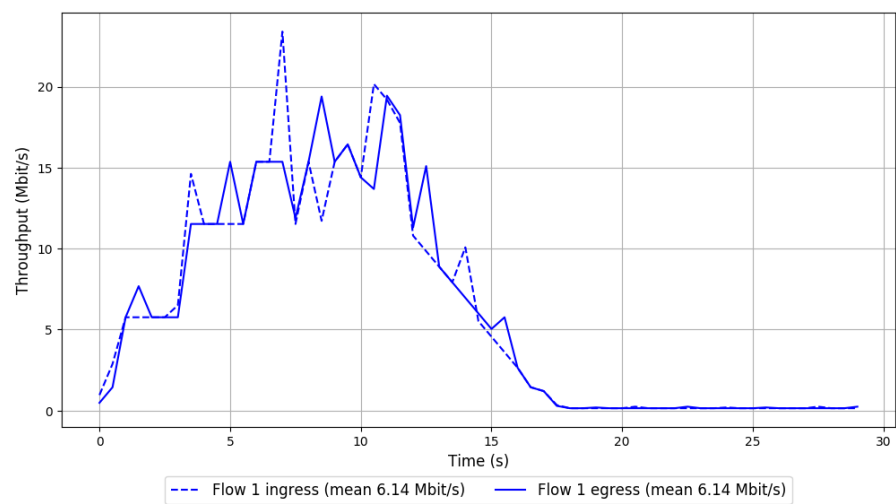


```
Run 1: Statistics of Indigo-delay

Start at: 2017-09-21 11:21:31
End at: 2017-09-21 11:22:01

# Below is generated by plot.py at 2017-09-21 14:04:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.14 Mbit/s
95th percentile per-packet one-way delay: 111.636 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.14 Mbit/s
95th percentile per-packet one-way delay: 111.636 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-delay — Data Link

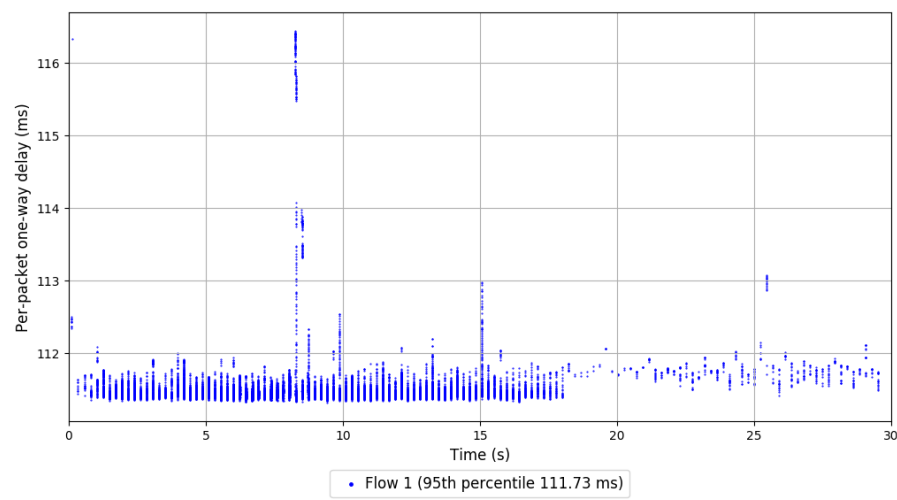
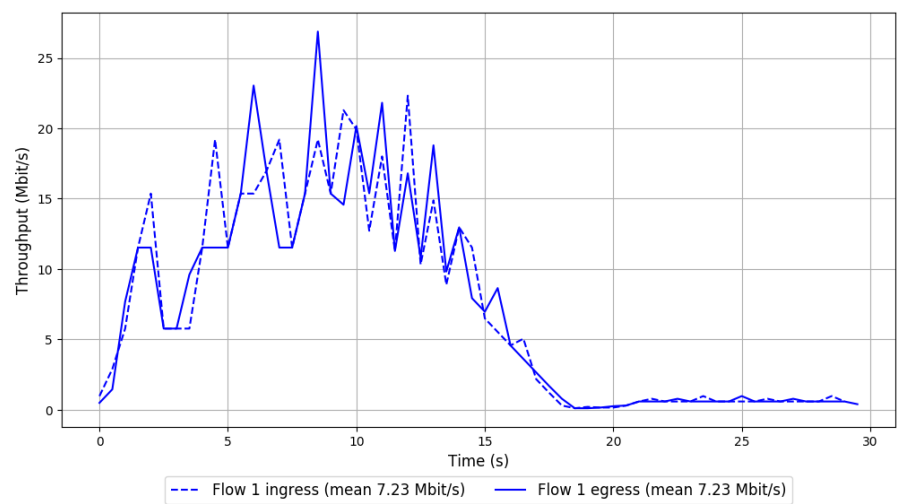


```
Run 2: Statistics of Indigo-delay

Start at: 2017-09-21 11:32:21
End at: 2017-09-21 11:32:51

# Below is generated by plot.py at 2017-09-21 14:04:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.23 Mbit/s
95th percentile per-packet one-way delay: 111.735 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 7.23 Mbit/s
95th percentile per-packet one-way delay: 111.735 ms
Loss rate: 0.05%
```

Run 2: Report of Indigo-delay — Data Link

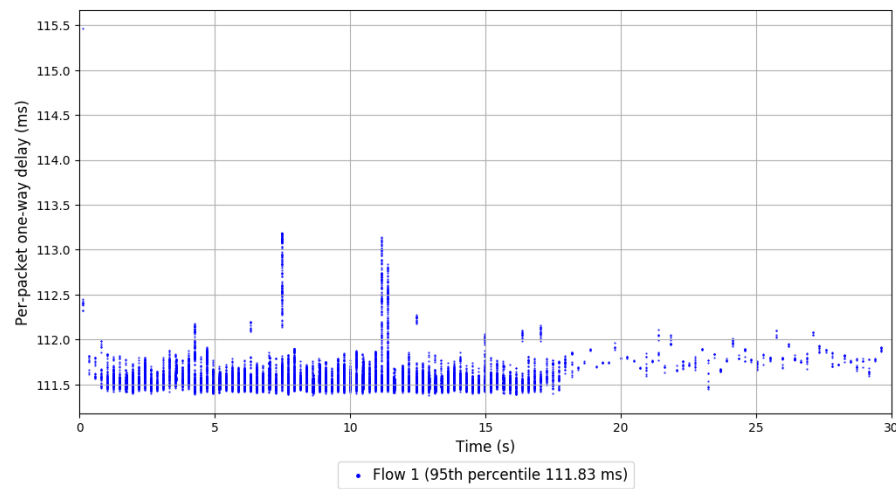
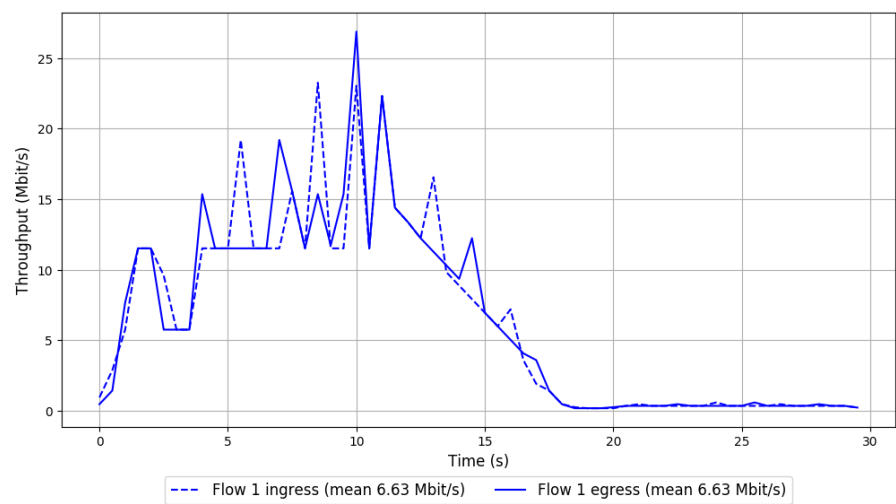


```
Run 3: Statistics of Indigo-delay

Start at: 2017-09-21 11:43:07
End at: 2017-09-21 11:43:37

# Below is generated by plot.py at 2017-09-21 14:04:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.63 Mbit/s
95th percentile per-packet one-way delay: 111.828 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.63 Mbit/s
95th percentile per-packet one-way delay: 111.828 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-delay — Data Link



Run 4: Statistics of Indigo-delay

Start at: 2017-09-21 11:53:51

End at: 2017-09-21 11:54:21

# Below is generated by plot.py at 2017-09-21 14:04:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.13 Mbit/s

95th percentile per-packet one-way delay: 109.242 ms

Loss rate: 0.00%

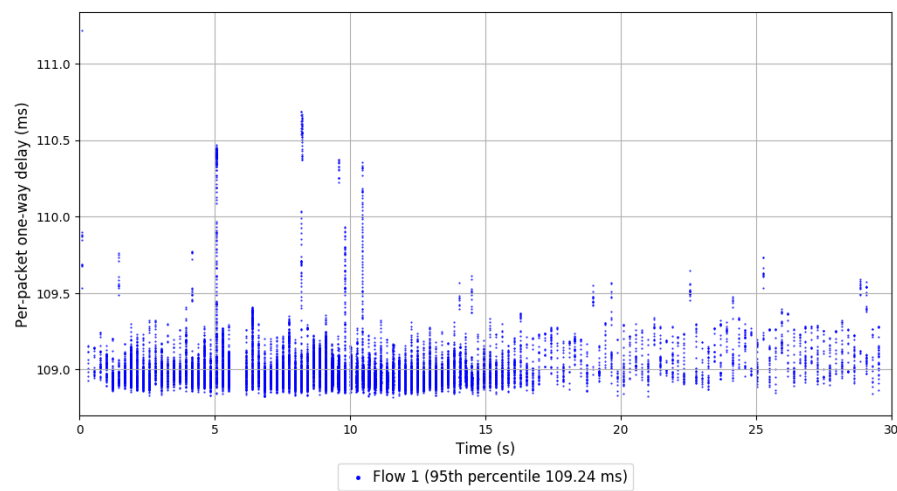
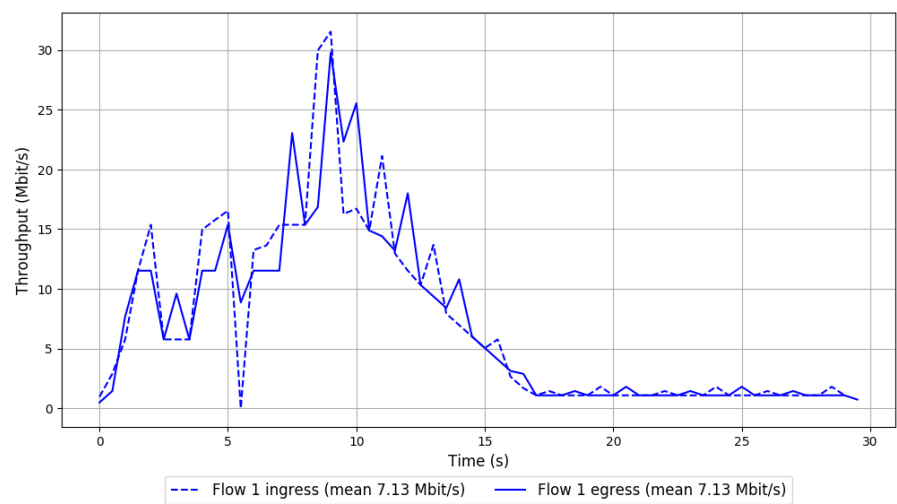
-- Flow 1:

Average throughput: 7.13 Mbit/s

95th percentile per-packet one-way delay: 109.242 ms

Loss rate: 0.00%

Run 4: Report of Indigo-delay — Data Link



Run 5: Statistics of Indigo-delay

Start at: 2017-09-21 12:04:51

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

# Below is generated by plot.py at 2017-09-21 14:04:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 9.85 Mbit/s

95th percentile per-packet one-way delay: 109.695 ms

Loss rate: 0.00%

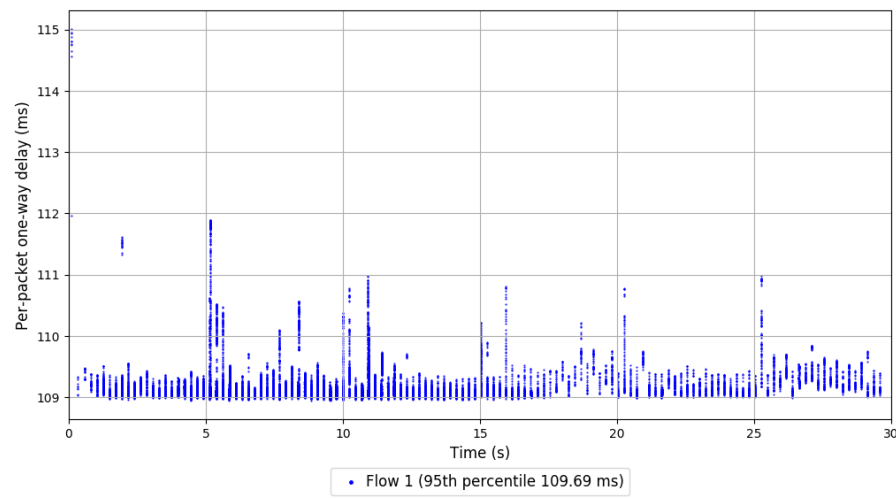
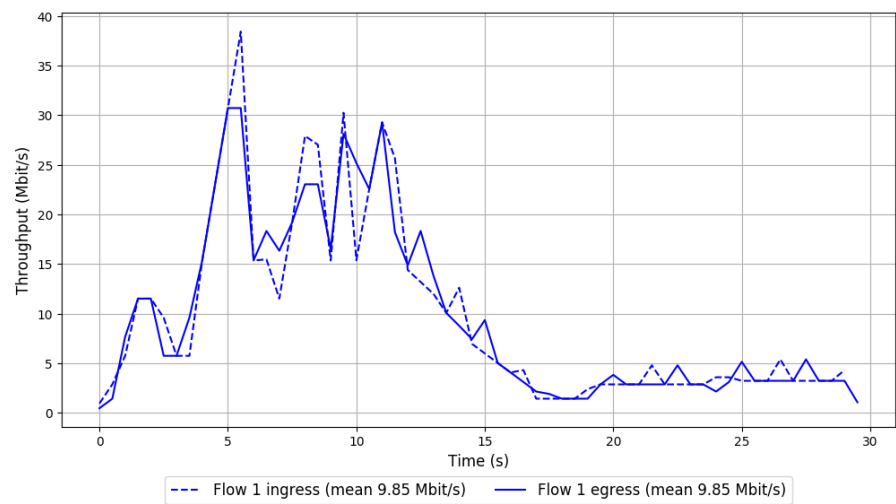
-- Flow 1:

Average throughput: 9.85 Mbit/s

95th percentile per-packet one-way delay: 109.695 ms

Loss rate: 0.00%

Run 5: Report of Indigo-delay — Data Link



Run 6: Statistics of Indigo-delay

Start at: 2017-09-21 12:16:01

End at: 2017-09-21 12:16:31

# Below is generated by plot.py at 2017-09-21 14:04:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 21.25 Mbit/s

95th percentile per-packet one-way delay: 109.536 ms

Loss rate: 0.00%

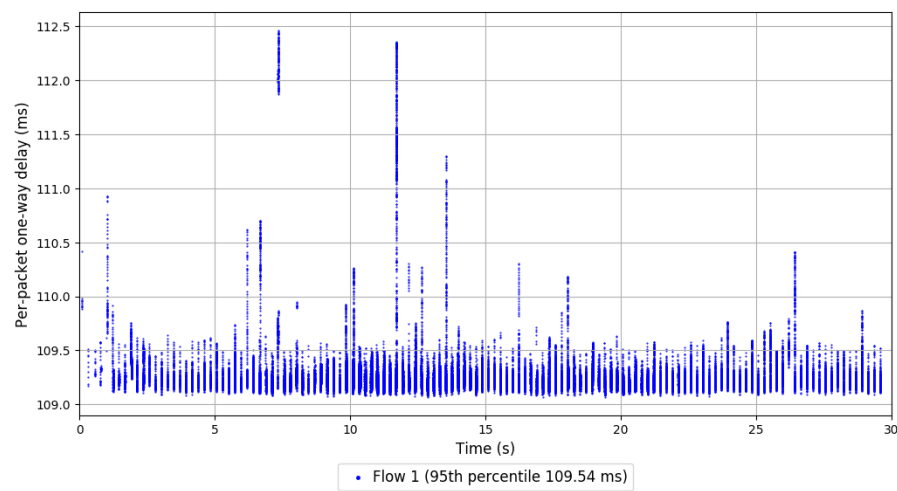
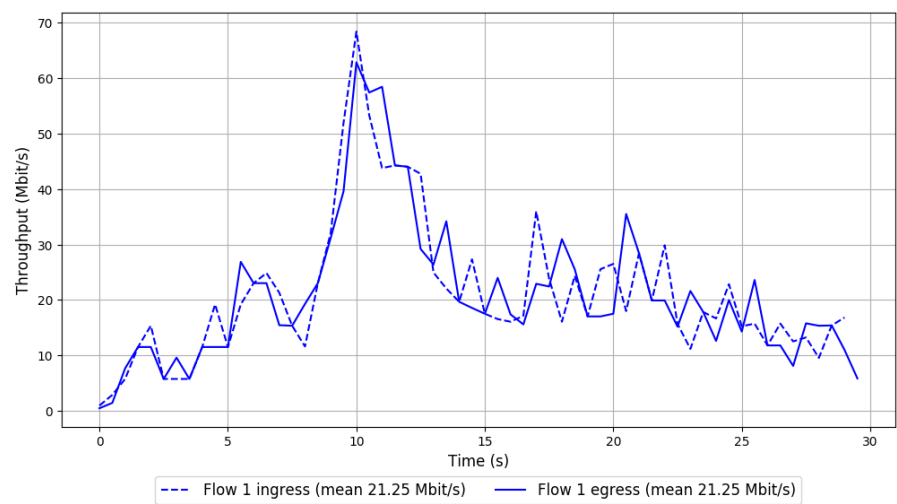
-- Flow 1:

Average throughput: 21.25 Mbit/s

95th percentile per-packet one-way delay: 109.536 ms

Loss rate: 0.00%

Run 6: Report of Indigo-delay — Data Link



Run 7: Statistics of Indigo-delay

Start at: 2017-09-21 12:26:55

End at: 2017-09-21 12:27:25

# Below is generated by plot.py at 2017-09-21 14:04:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 8.50 Mbit/s

95th percentile per-packet one-way delay: 109.779 ms

Loss rate: 0.48%

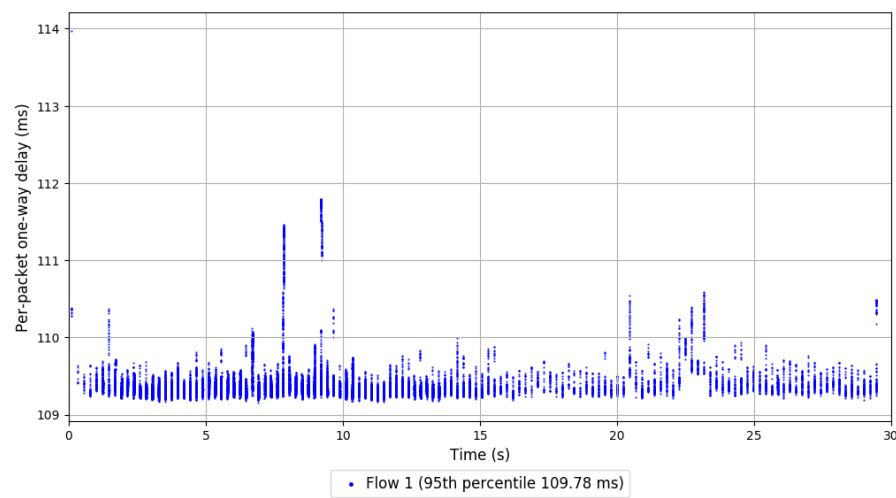
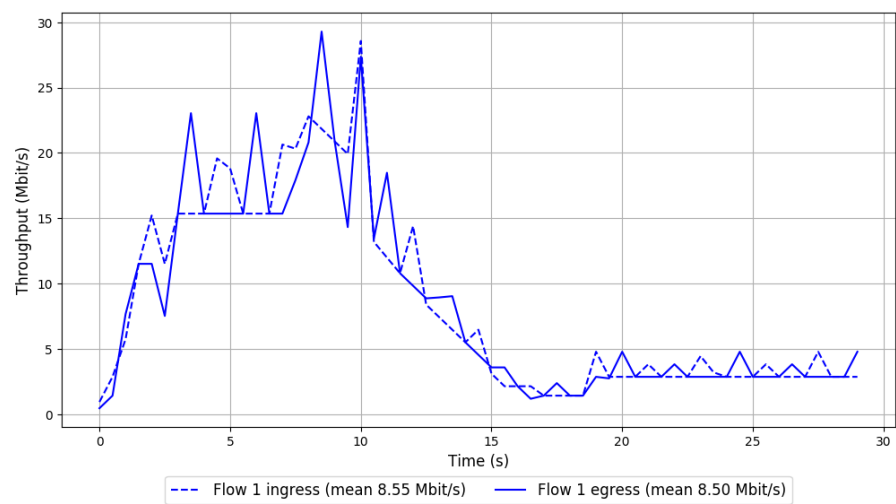
-- Flow 1:

Average throughput: 8.50 Mbit/s

95th percentile per-packet one-way delay: 109.779 ms

Loss rate: 0.48%

Run 7: Report of Indigo-delay — Data Link



Run 8: Statistics of Indigo-delay

Start at: 2017-09-21 12:38:07

End at: 2017-09-21 12:38:37

# Below is generated by plot.py at 2017-09-21 14:04:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 9.14 Mbit/s

95th percentile per-packet one-way delay: 109.643 ms

Loss rate: 0.01%

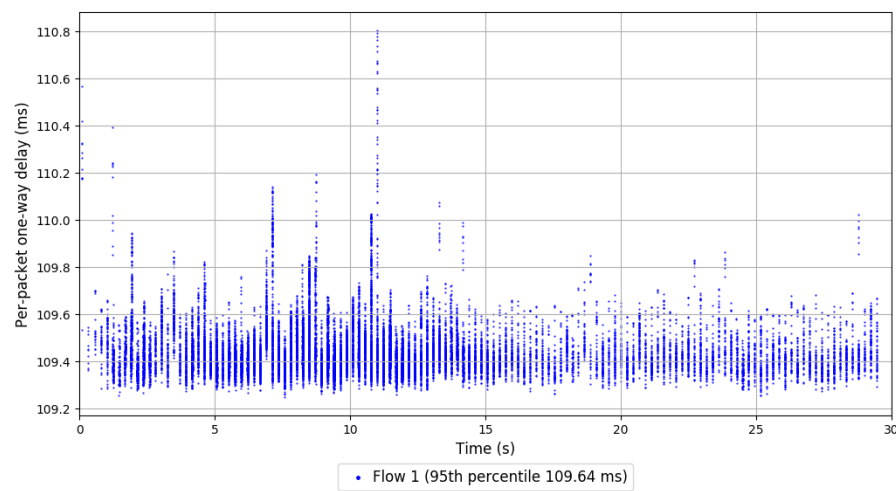
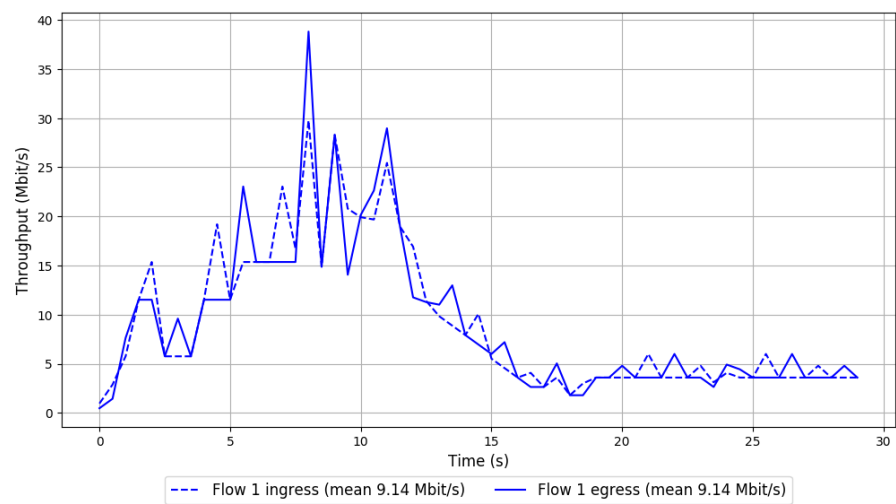
-- Flow 1:

Average throughput: 9.14 Mbit/s

95th percentile per-packet one-way delay: 109.643 ms

Loss rate: 0.01%

Run 8: Report of Indigo-delay — Data Link



Run 9: Statistics of Indigo-delay

Start at: 2017-09-21 12:49:29

End at: 2017-09-21 12:49:59

# Below is generated by plot.py at 2017-09-21 14:04:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 8.33 Mbit/s

95th percentile per-packet one-way delay: 110.440 ms

Loss rate: 0.07%

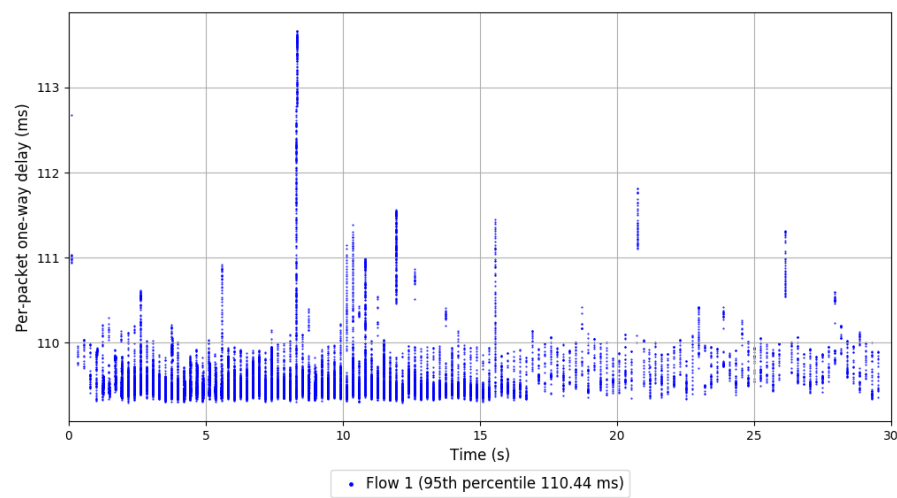
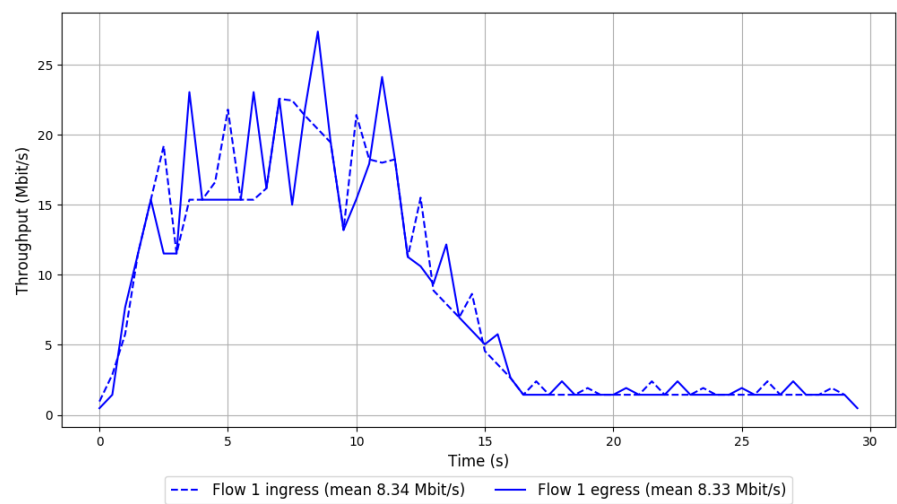
-- Flow 1:

Average throughput: 8.33 Mbit/s

95th percentile per-packet one-way delay: 110.440 ms

Loss rate: 0.07%

Run 9: Report of Indigo-delay — Data Link



Run 10: Statistics of Indigo-delay

Start at: 2017-09-21 13:00:28

End at: 2017-09-21 13:00:58

# Below is generated by plot.py at 2017-09-21 14:04:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 8.09 Mbit/s

95th percentile per-packet one-way delay: 110.171 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 8.09 Mbit/s

95th percentile per-packet one-way delay: 110.171 ms

Loss rate: 0.00%

Run 10: Report of Indigo-delay — Data Link

