

## Pantheon Report

Generated at 2018-08-27 23:59:29 (UTC).

Data path: AWS India 1 ens5 (*local*) → India em1 (*remote*).

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

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

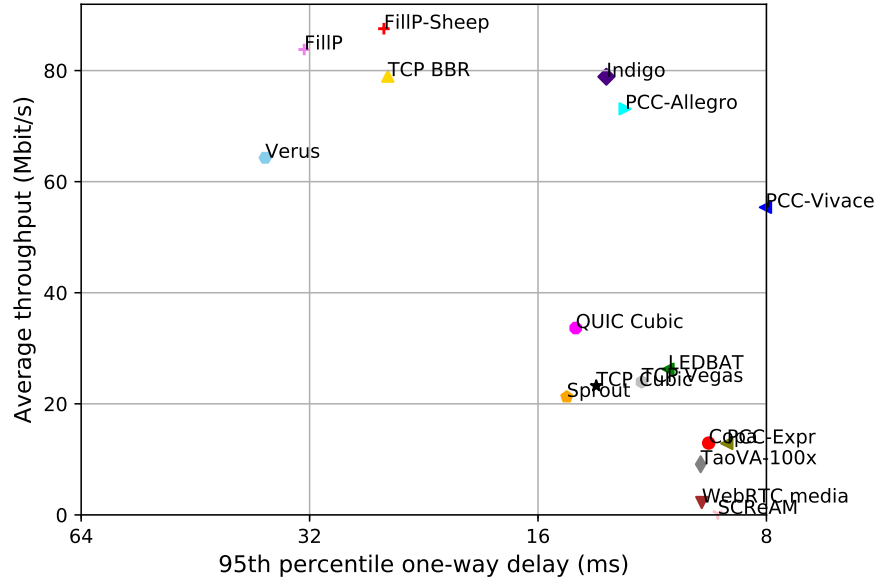
### System info:

```
Linux 4.15.0-1019-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

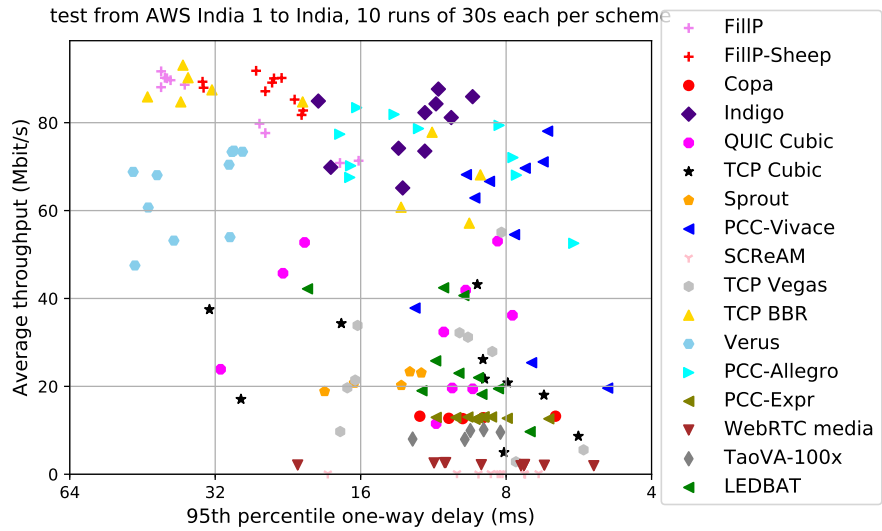
### Git summary:

```
branch: master @ 8f31687904b612ba36b45467ab20eda73108da68
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfef58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 5386469677b75a7fdc5fe25d8daccce7950d8a69
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/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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



test from AWS India 1 to India, 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     | 79.00                            | 25.24                               | 8.61                         |
| Copa         | 5      | 12.94                            | 9.53                                | 64.80                        |
| TCP Cubic    | 10     | 23.23                            | 13.41                               | 0.47                         |
| FillP        | 10     | 83.80                            | 32.53                               | 12.67                        |
| FillP-Sheep  | 10     | 87.54                            | 25.54                               | 10.28                        |
| Indigo       | 10     | 78.89                            | 13.00                               | 7.44                         |
| LEDBAT       | 10     | 26.24                            | 10.79                               | 0.45                         |
| PCC-Allegro  | 10     | 73.11                            | 12.28                               | 8.07                         |
| PCC-Expr     | 10     | 12.87                            | 9.02                                | 35.39                        |
| QUIC Cubic   | 10     | 33.65                            | 14.27                               | 1.28                         |
| SCReAM       | 10     | 0.19                             | 9.28                                | 0.27                         |
| Sprout       | 5      | 21.25                            | 14.66                               | 1.81                         |
| TaoVA-100x   | 5      | 9.12                             | 9.77                                | 78.67                        |
| TCP Vegas    | 10     | 23.94                            | 11.68                               | 1.52                         |
| Verus        | 10     | 64.30                            | 36.61                               | 21.60                        |
| PCC-Vivace   | 10     | 55.38                            | 8.02                                | 4.40                         |
| WebRTC media | 10     | 2.23                             | 9.73                                | 1.82                         |

Run 1: Statistics of TCP BBR

Start at: 2018-08-27 20:41:56

End at: 2018-08-27 20:42:26

Local clock offset: 3.765 ms

Remote clock offset: -3.686 ms

# Below is generated by plot.py at 2018-08-27 23:48:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 68.13 Mbit/s

95th percentile per-packet one-way delay: 9.043 ms

Loss rate: 13.17%

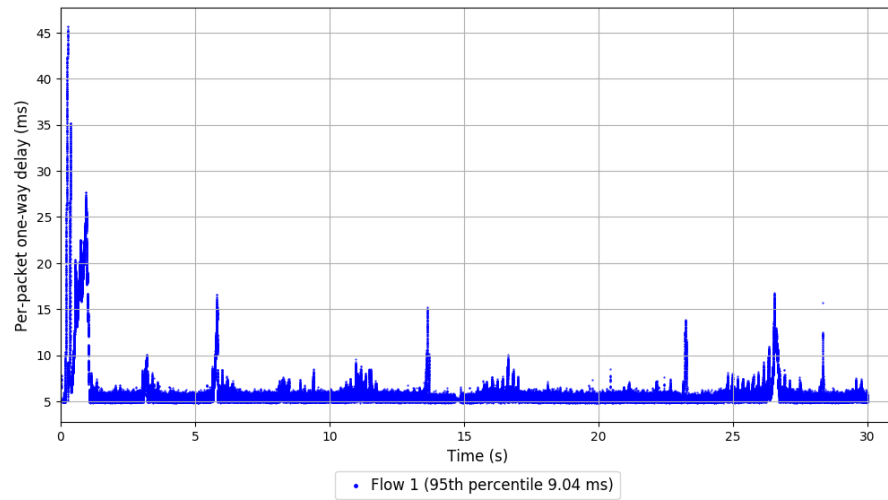
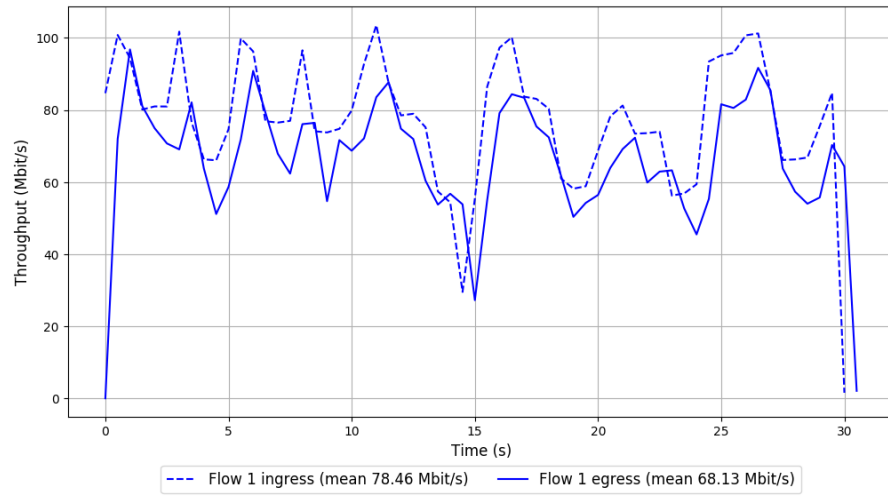
-- Flow 1:

Average throughput: 68.13 Mbit/s

95th percentile per-packet one-way delay: 9.043 ms

Loss rate: 13.17%

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



Run 2: Statistics of TCP BBR

Start at: 2018-08-27 21:00:53

End at: 2018-08-27 21:01:23

Local clock offset: 0.05 ms

Remote clock offset: -2.601 ms

# Below is generated by plot.py at 2018-08-27 23:48:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 60.77 Mbit/s

95th percentile per-packet one-way delay: 13.197 ms

Loss rate: 14.75%

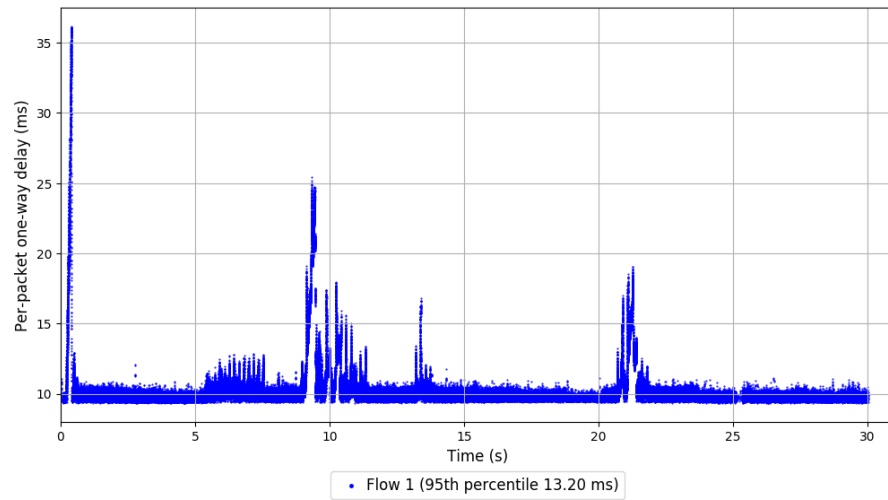
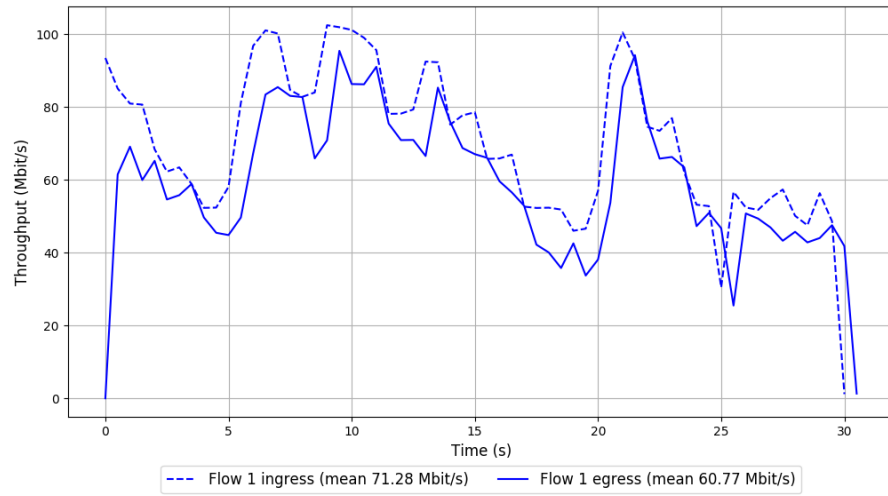
-- Flow 1:

Average throughput: 60.77 Mbit/s

95th percentile per-packet one-way delay: 13.197 ms

Loss rate: 14.75%

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



Run 3: Statistics of TCP BBR

Start at: 2018-08-27 21:19:28

End at: 2018-08-27 21:19:58

Local clock offset: 1.525 ms

Remote clock offset: -2.759 ms

# Below is generated by plot.py at 2018-08-27 23:48:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 57.14 Mbit/s

95th percentile per-packet one-way delay: 9.533 ms

Loss rate: 12.22%

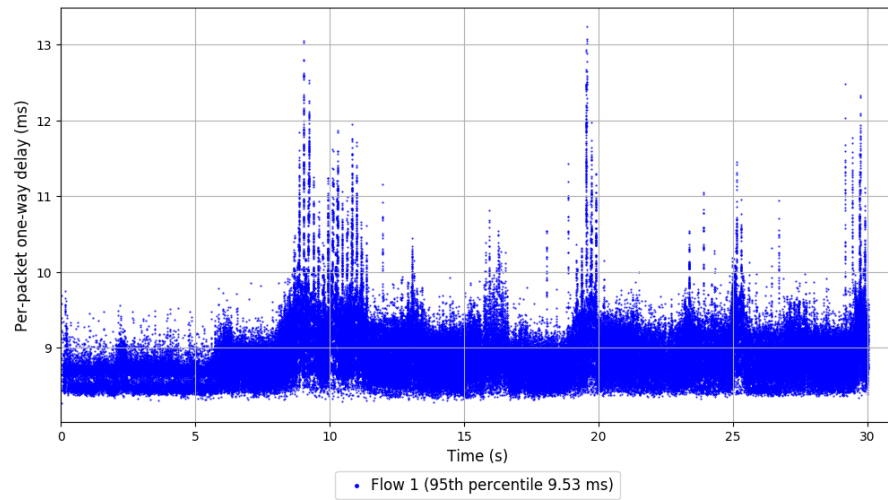
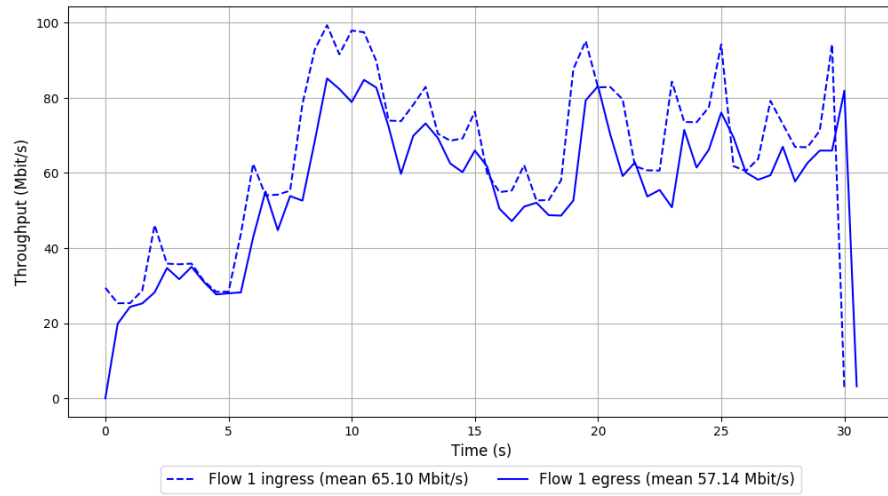
-- Flow 1:

Average throughput: 57.14 Mbit/s

95th percentile per-packet one-way delay: 9.533 ms

Loss rate: 12.22%

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

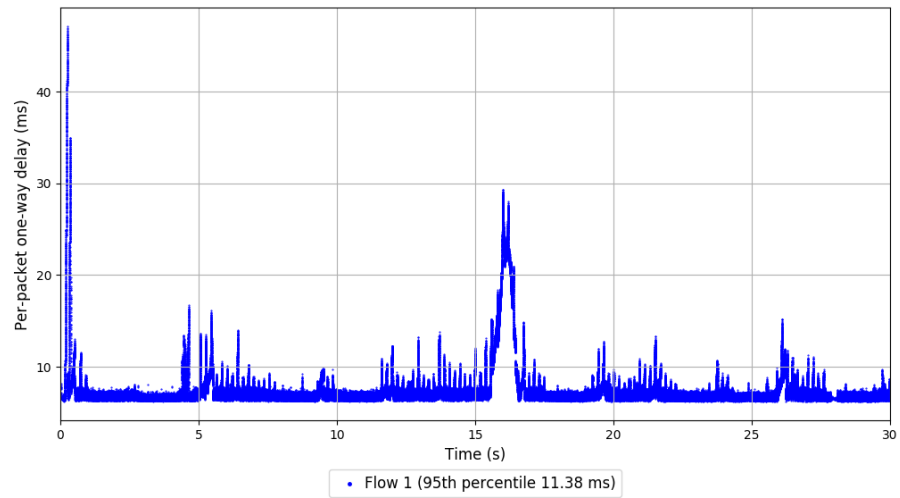
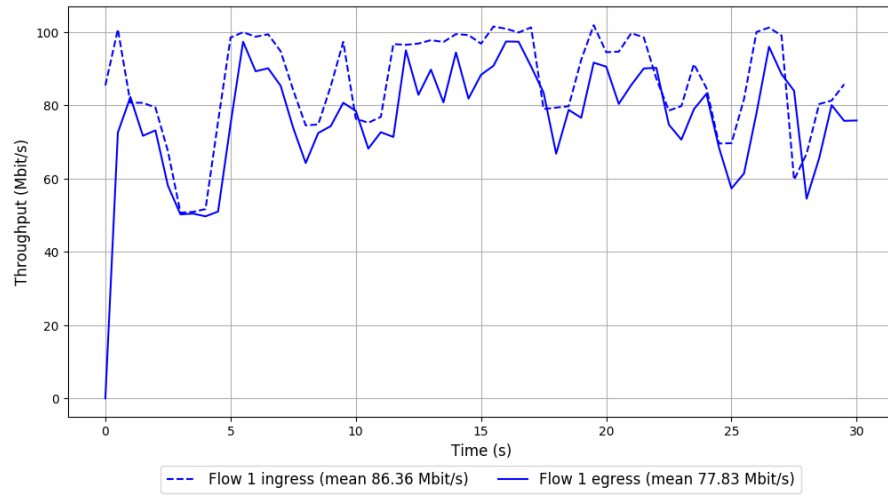


Run 4: Statistics of TCP BBR

Start at: 2018-08-27 21:38:11  
End at: 2018-08-27 21:38:41  
Local clock offset: 1.518 ms  
Remote clock offset: -4.822 ms

# Below is generated by plot.py at 2018-08-27 23:48:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 77.83 Mbit/s  
95th percentile per-packet one-way delay: 11.383 ms  
Loss rate: 9.88%  
-- Flow 1:  
Average throughput: 77.83 Mbit/s  
95th percentile per-packet one-way delay: 11.383 ms  
Loss rate: 9.88%

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

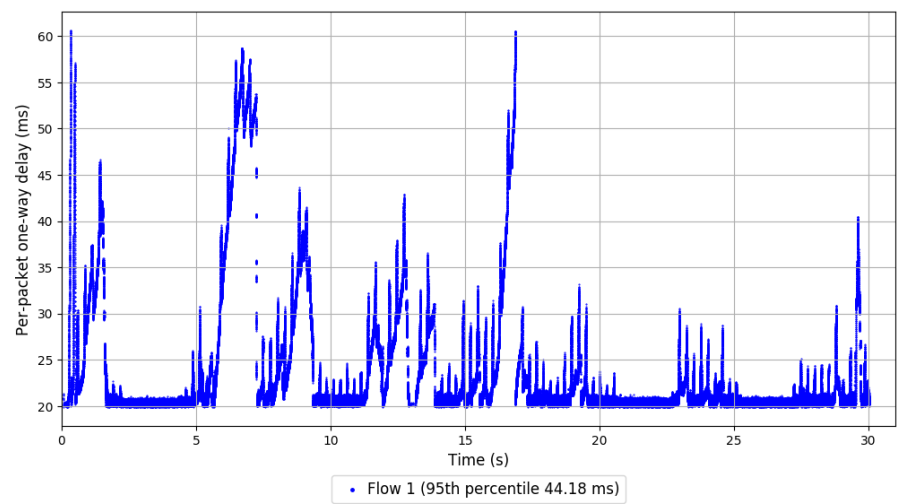
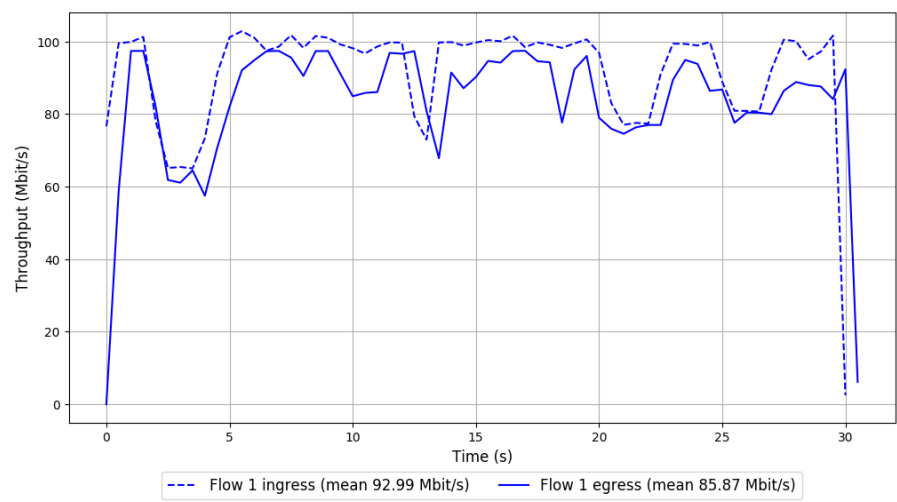


Run 5: Statistics of TCP BBR

Start at: 2018-08-27 21:56:59  
End at: 2018-08-27 21:57:29  
Local clock offset: -1.973 ms  
Remote clock offset: -2.604 ms

# Below is generated by plot.py at 2018-08-27 23:48:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 85.87 Mbit/s  
95th percentile per-packet one-way delay: 44.180 ms  
Loss rate: 7.66%  
-- Flow 1:  
Average throughput: 85.87 Mbit/s  
95th percentile per-packet one-way delay: 44.180 ms  
Loss rate: 7.66%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-08-27 22:15:54

End at: 2018-08-27 22:16:24

Local clock offset: 1.854 ms

Remote clock offset: -2.992 ms

# Below is generated by plot.py at 2018-08-27 23:48:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.74 Mbit/s

95th percentile per-packet one-way delay: 37.705 ms

Loss rate: 6.60%

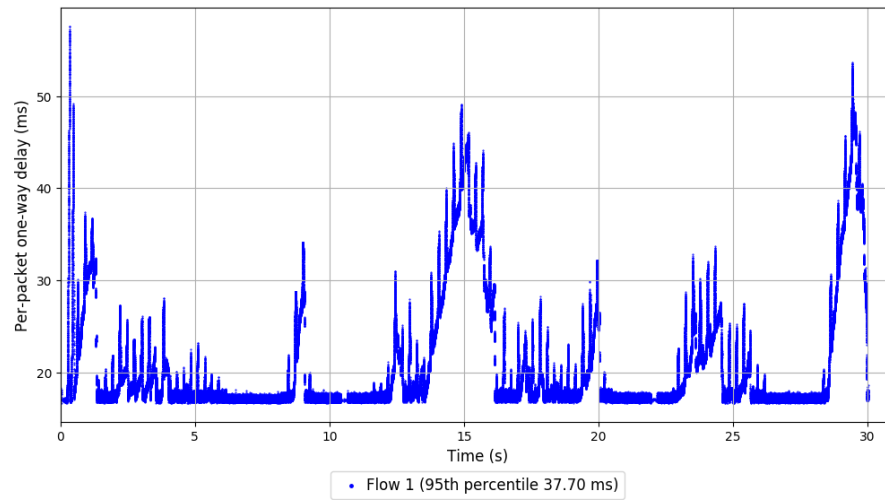
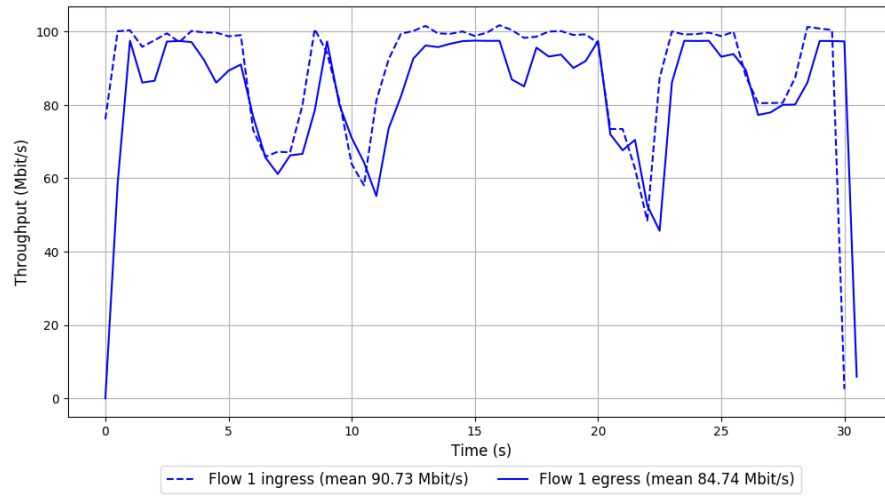
-- Flow 1:

Average throughput: 84.74 Mbit/s

95th percentile per-packet one-way delay: 37.705 ms

Loss rate: 6.60%

# Run 6: Report of TCP BBR — Data Link

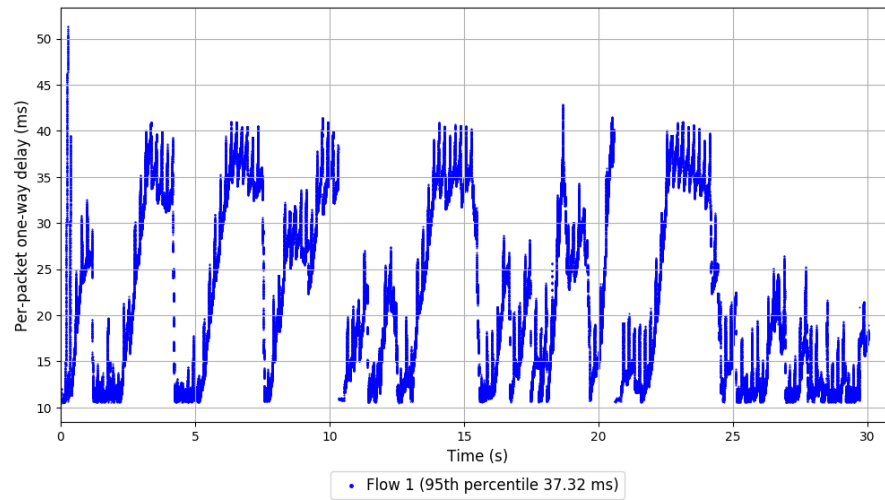
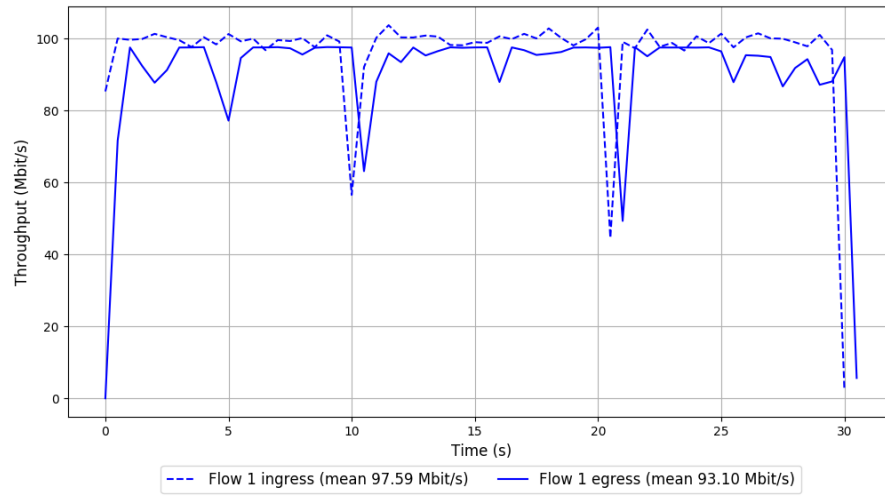


Run 7: Statistics of TCP BBR

Start at: 2018-08-27 22:34:38  
End at: 2018-08-27 22:35:08  
Local clock offset: -0.917 ms  
Remote clock offset: -2.997 ms

# Below is generated by plot.py at 2018-08-27 23:48:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 93.10 Mbit/s  
95th percentile per-packet one-way delay: 37.319 ms  
Loss rate: 4.58%  
-- Flow 1:  
Average throughput: 93.10 Mbit/s  
95th percentile per-packet one-way delay: 37.319 ms  
Loss rate: 4.58%

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

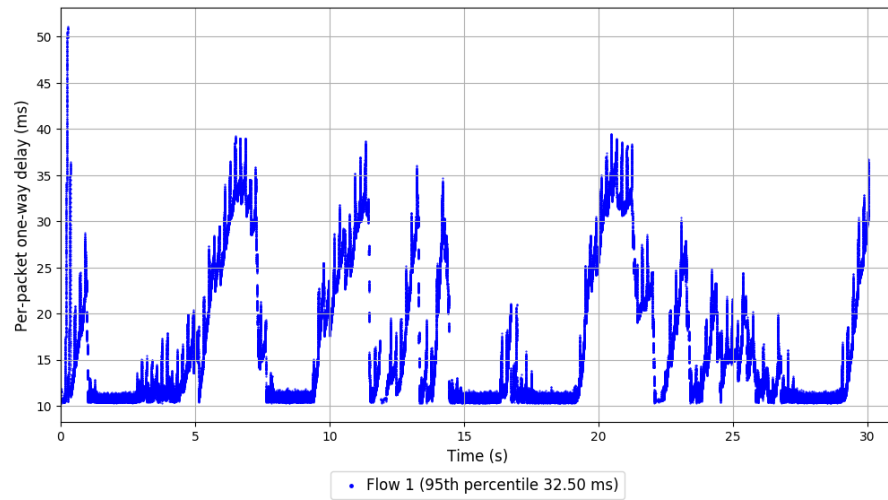
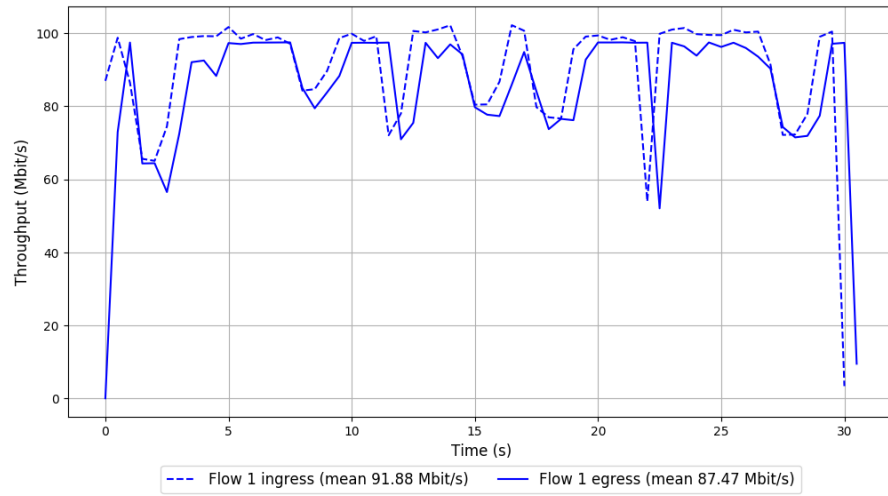


Run 8: Statistics of TCP BBR

Start at: 2018-08-27 22:53:22  
End at: 2018-08-27 22:53:52  
Local clock offset: -1.552 ms  
Remote clock offset: -2.794 ms

# Below is generated by plot.py at 2018-08-27 23:48:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 87.47 Mbit/s  
95th percentile per-packet one-way delay: 32.500 ms  
Loss rate: 4.72%  
-- Flow 1:  
Average throughput: 87.47 Mbit/s  
95th percentile per-packet one-way delay: 32.500 ms  
Loss rate: 4.72%

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



Run 9: Statistics of TCP BBR

Start at: 2018-08-27 23:12:04

End at: 2018-08-27 23:12:34

Local clock offset: 2.716 ms

Remote clock offset: -2.45 ms

# Below is generated by plot.py at 2018-08-27 23:49:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.24 Mbit/s

95th percentile per-packet one-way delay: 36.419 ms

Loss rate: 4.58%

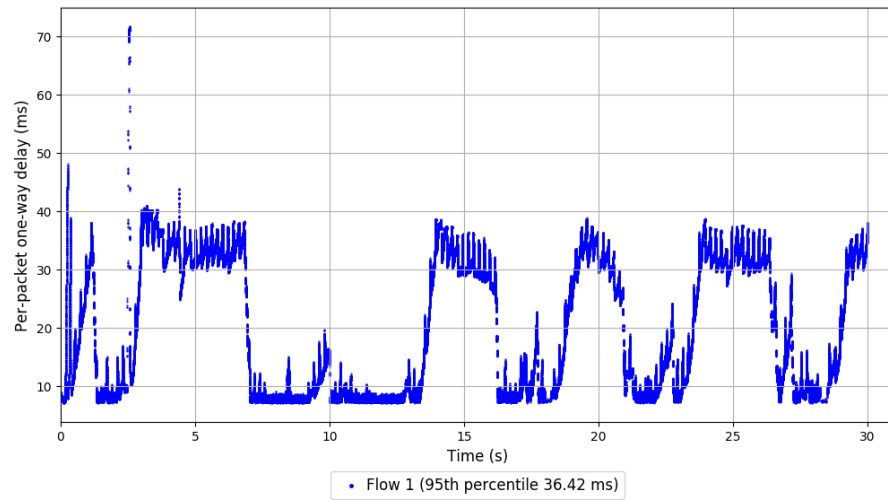
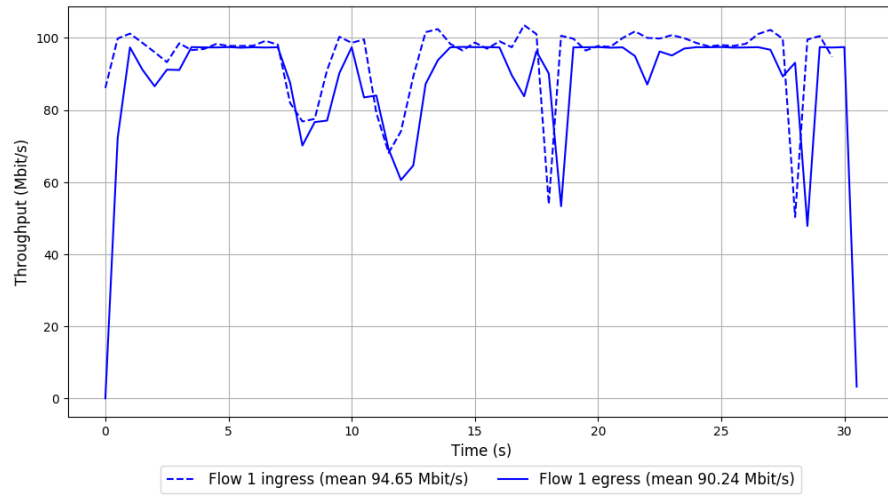
-- Flow 1:

Average throughput: 90.24 Mbit/s

95th percentile per-packet one-way delay: 36.419 ms

Loss rate: 4.58%

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



Run 10: Statistics of TCP BBR

Start at: 2018-08-27 23:30:50

End at: 2018-08-27 23:31:20

Local clock offset: 1.62 ms

Remote clock offset: -3.11 ms

# Below is generated by plot.py at 2018-08-27 23:49:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.73 Mbit/s

95th percentile per-packet one-way delay: 21.097 ms

Loss rate: 7.98%

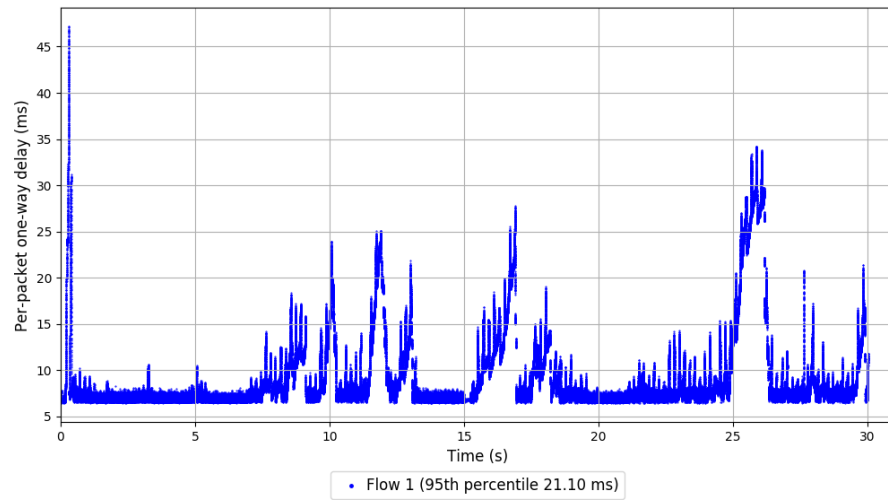
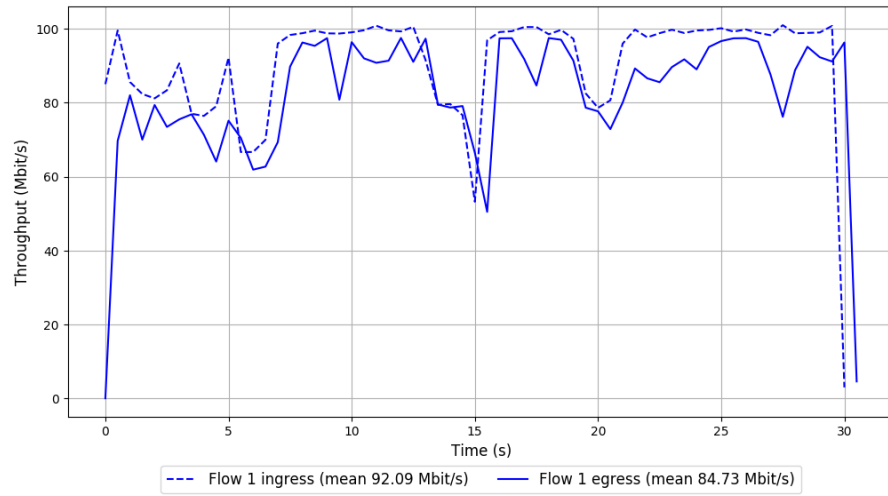
-- Flow 1:

Average throughput: 84.73 Mbit/s

95th percentile per-packet one-way delay: 21.097 ms

Loss rate: 7.98%

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

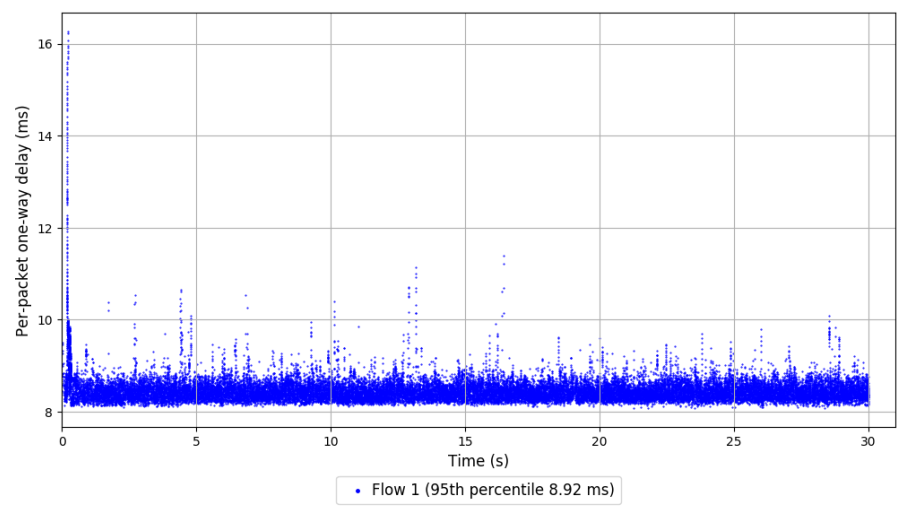
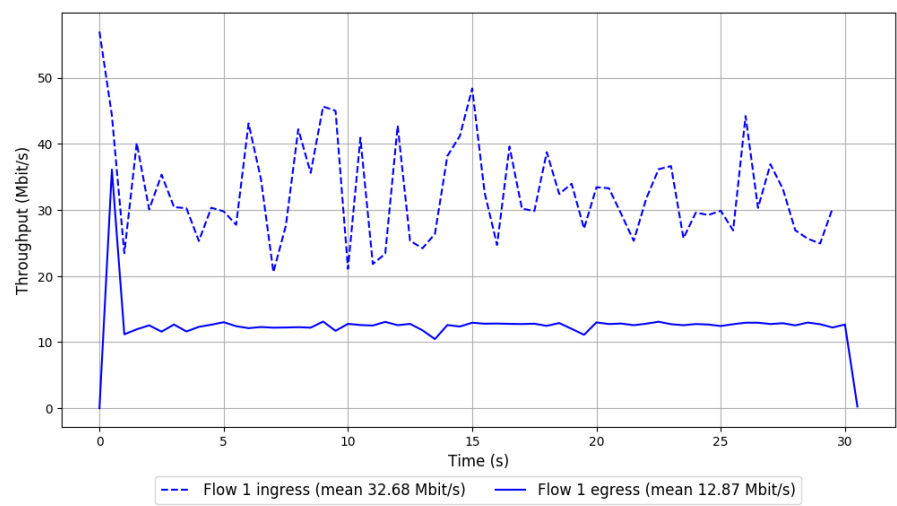


Run 1: Statistics of Copa

Start at: 2018-08-27 20:47:38  
End at: 2018-08-27 20:48:08  
Local clock offset: 1.394 ms  
Remote clock offset: -3.059 ms

# Below is generated by plot.py at 2018-08-27 23:49:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.87 Mbit/s  
95th percentile per-packet one-way delay: 8.923 ms  
Loss rate: 60.61%  
-- Flow 1:  
Average throughput: 12.87 Mbit/s  
95th percentile per-packet one-way delay: 8.923 ms  
Loss rate: 60.61%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

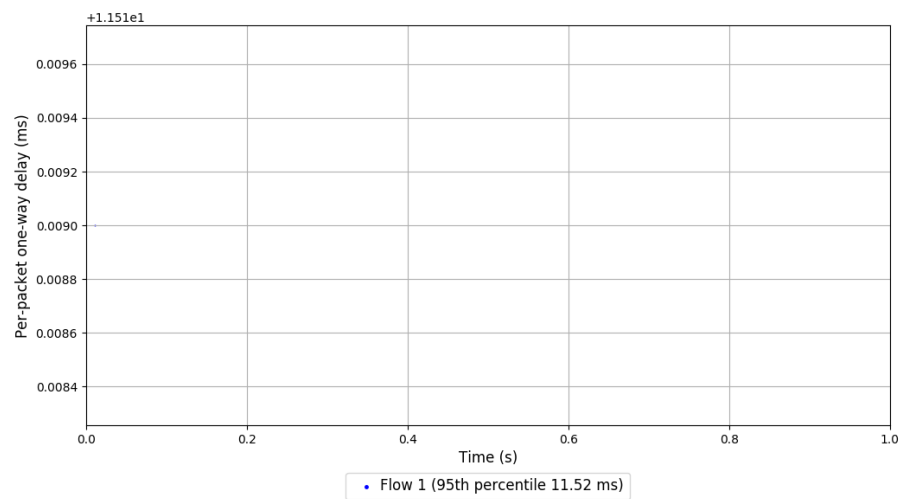
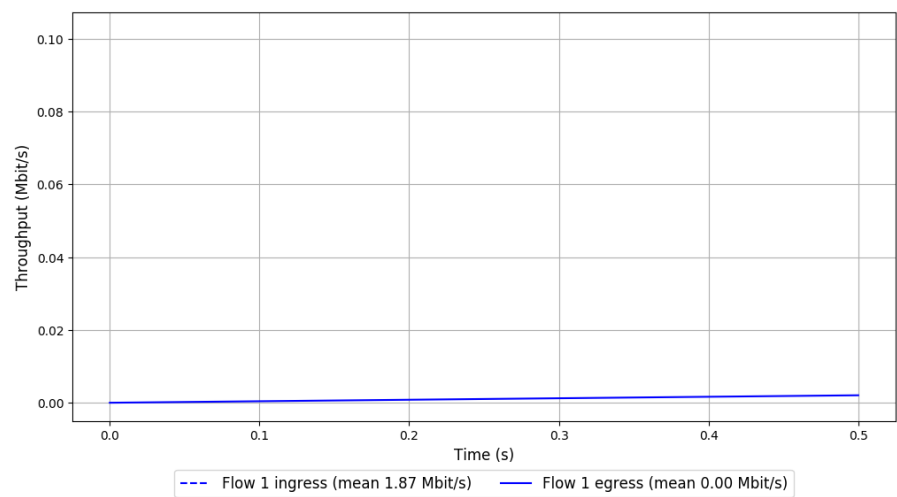
Start at: 2018-08-27 21:06:23

End at: 2018-08-27 21:06:53

Local clock offset: -1.222 ms

Remote clock offset: -2.743 ms

Run 2: Report of Copa — Data Link

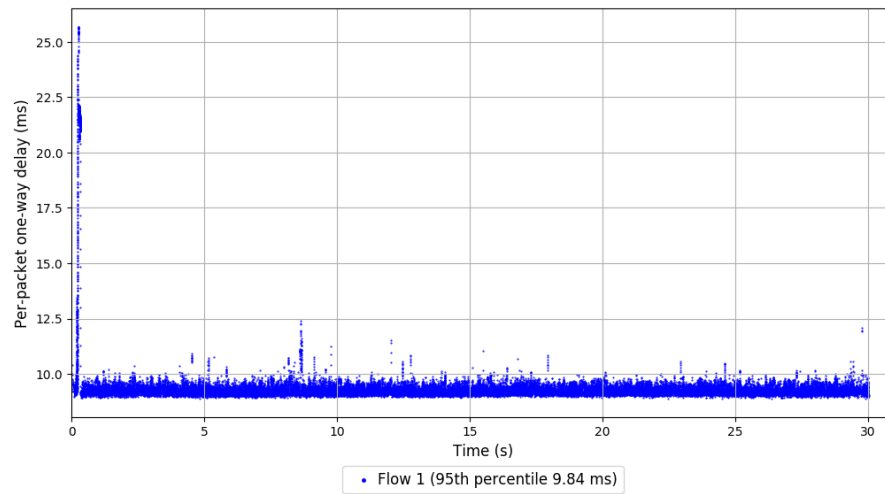
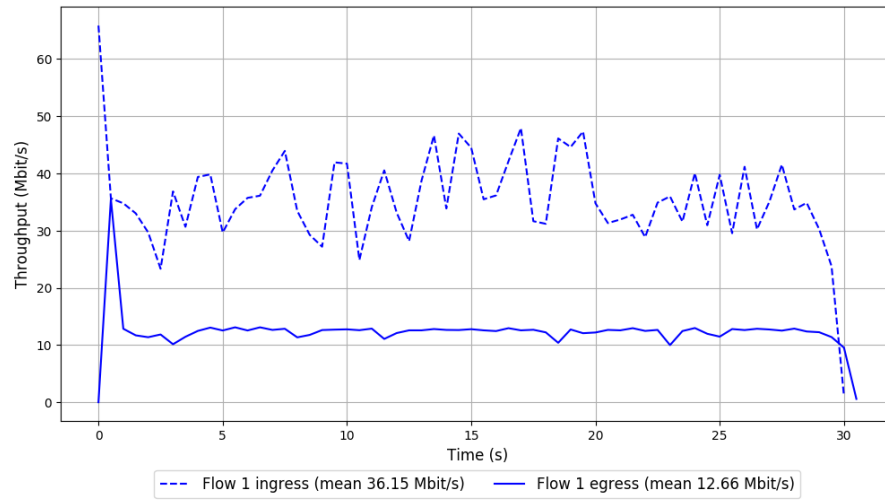


Run 3: Statistics of Copa

Start at: 2018-08-27 21:25:01  
End at: 2018-08-27 21:25:31  
Local clock offset: 1.371 ms  
Remote clock offset: -3.404 ms

# Below is generated by plot.py at 2018-08-27 23:49:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.66 Mbit/s  
95th percentile per-packet one-way delay: 9.840 ms  
Loss rate: 64.97%  
-- Flow 1:  
Average throughput: 12.66 Mbit/s  
95th percentile per-packet one-way delay: 9.840 ms  
Loss rate: 64.97%

### Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

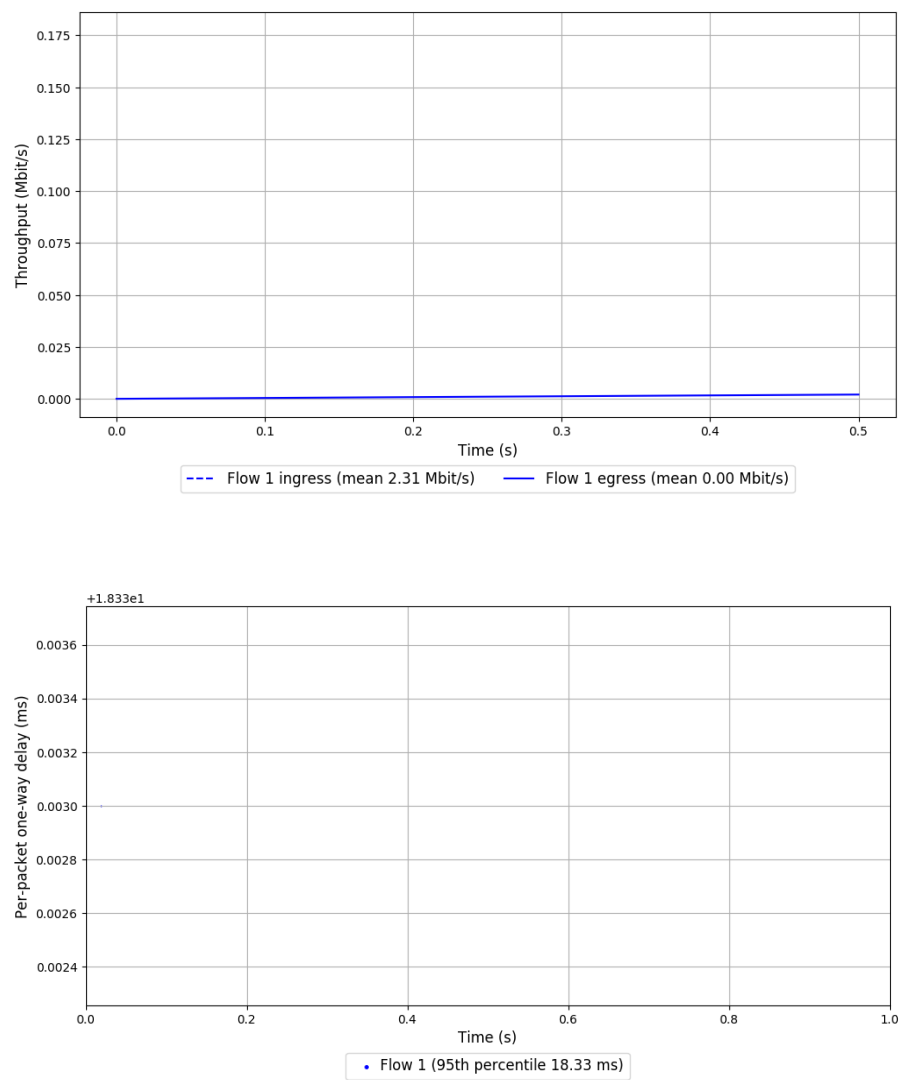
Start at: 2018-08-27 21:43:46

End at: 2018-08-27 21:44:17

Local clock offset: 1.097 ms

Remote clock offset: -2.307 ms

Run 4: Report of Copa — Data Link

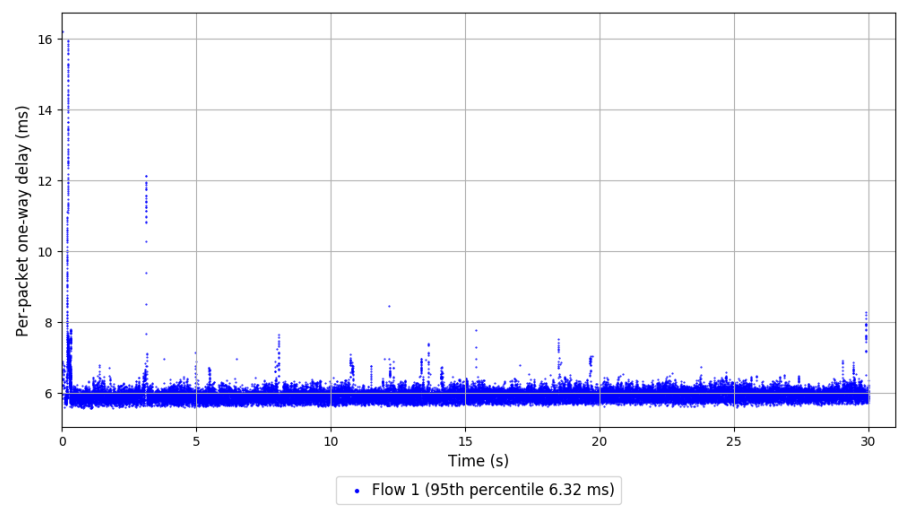
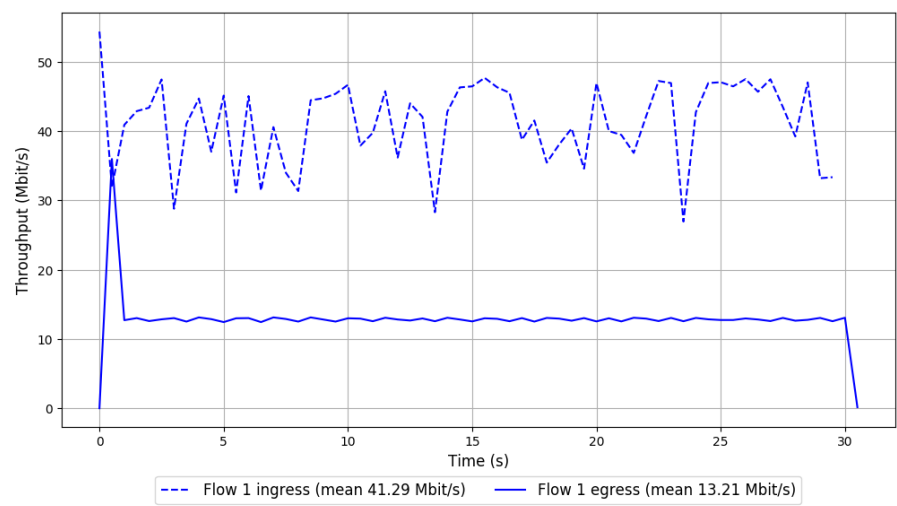


Run 5: Statistics of Copa

Start at: 2018-08-27 22:02:35  
End at: 2018-08-27 22:03:05  
Local clock offset: 2.711 ms  
Remote clock offset: -3.211 ms

# Below is generated by plot.py at 2018-08-27 23:49:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 13.21 Mbit/s  
95th percentile per-packet one-way delay: 6.322 ms  
Loss rate: 68.02%  
-- Flow 1:  
Average throughput: 13.21 Mbit/s  
95th percentile per-packet one-way delay: 6.322 ms  
Loss rate: 68.02%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

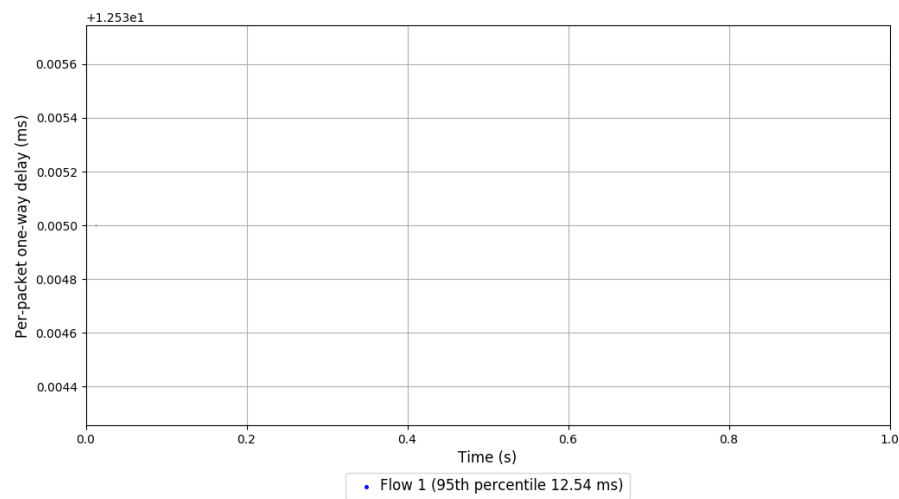
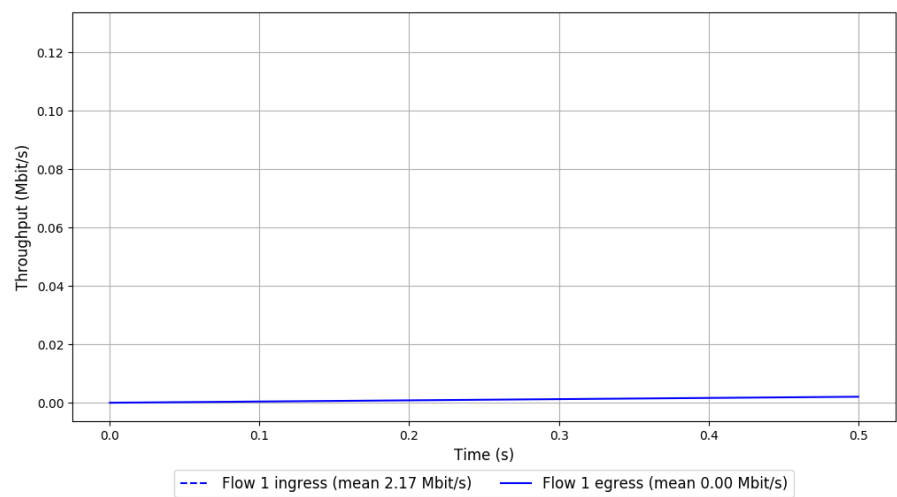
Start at: 2018-08-27 22:21:27

End at: 2018-08-27 22:21:57

Local clock offset: -1.702 ms

Remote clock offset: -3.151 ms

Run 6: Report of Copa — Data Link

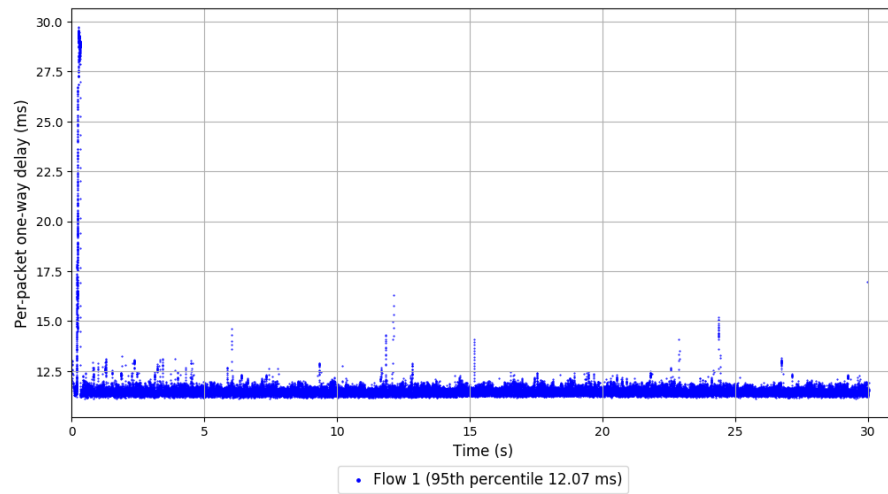
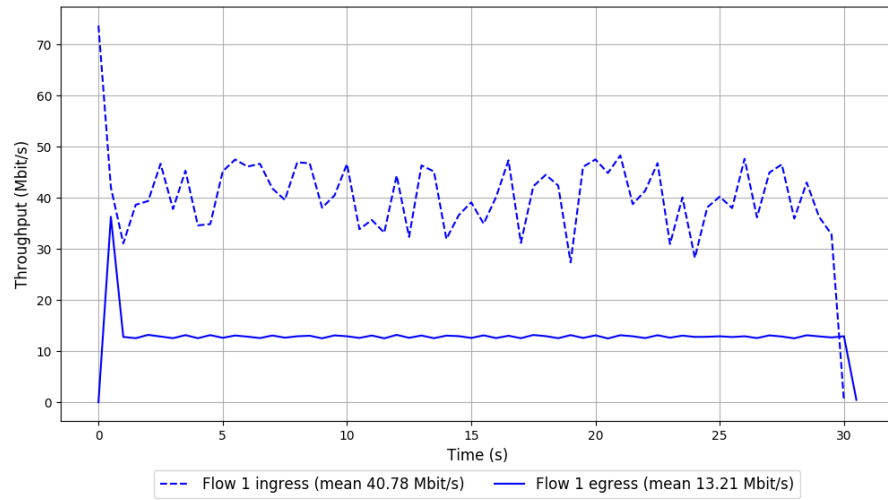


Run 7: Statistics of Copa

Start at: 2018-08-27 22:40:10  
End at: 2018-08-27 22:40:40  
Local clock offset: -1.553 ms  
Remote clock offset: -2.923 ms

# Below is generated by plot.py at 2018-08-27 23:49:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 13.21 Mbit/s  
95th percentile per-packet one-way delay: 12.069 ms  
Loss rate: 67.62%  
-- Flow 1:  
Average throughput: 13.21 Mbit/s  
95th percentile per-packet one-way delay: 12.069 ms  
Loss rate: 67.62%

## Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

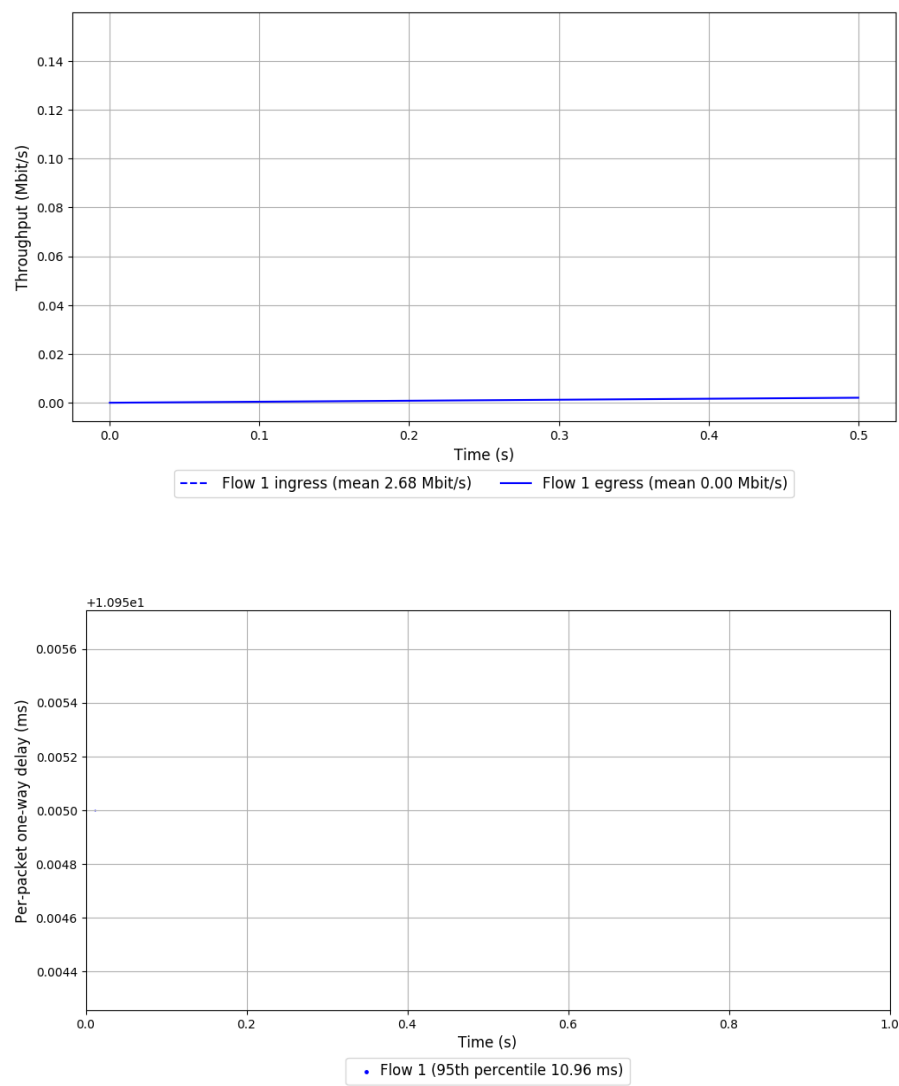
Start at: 2018-08-27 22:58:55

End at: 2018-08-27 22:59:25

Local clock offset: -0.882 ms

Remote clock offset: -3.162 ms

Run 8: Report of Copa — Data Link

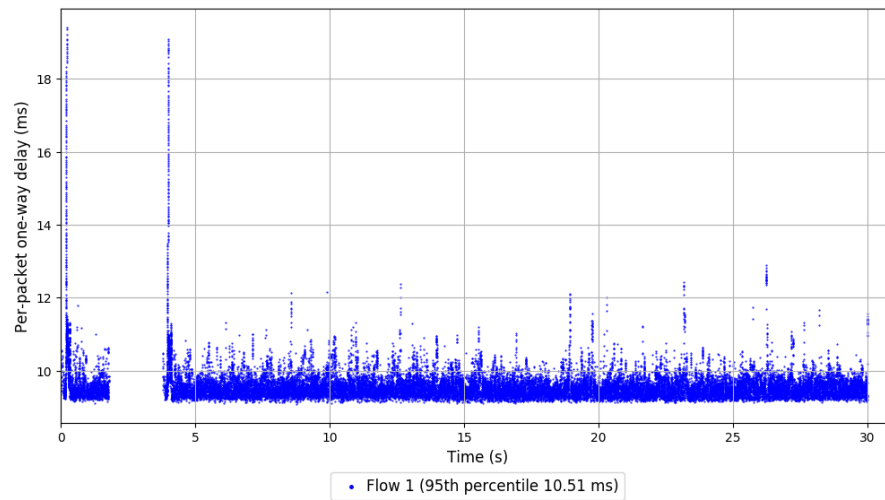
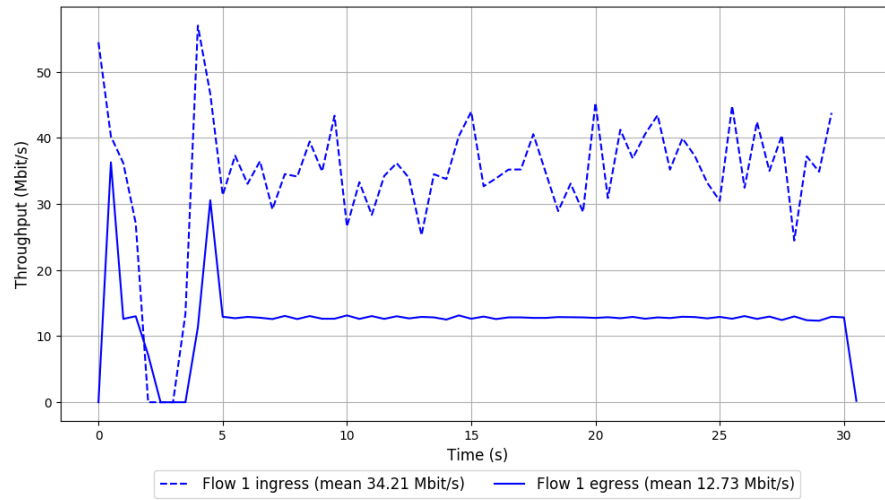


Run 9: Statistics of Copa

Start at: 2018-08-27 23:17:37  
End at: 2018-08-27 23:18:07  
Local clock offset: 0.462 ms  
Remote clock offset: -2.586 ms

# Below is generated by plot.py at 2018-08-27 23:49:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.73 Mbit/s  
95th percentile per-packet one-way delay: 10.512 ms  
Loss rate: 62.79%  
-- Flow 1:  
Average throughput: 12.73 Mbit/s  
95th percentile per-packet one-way delay: 10.512 ms  
Loss rate: 62.79%

### Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

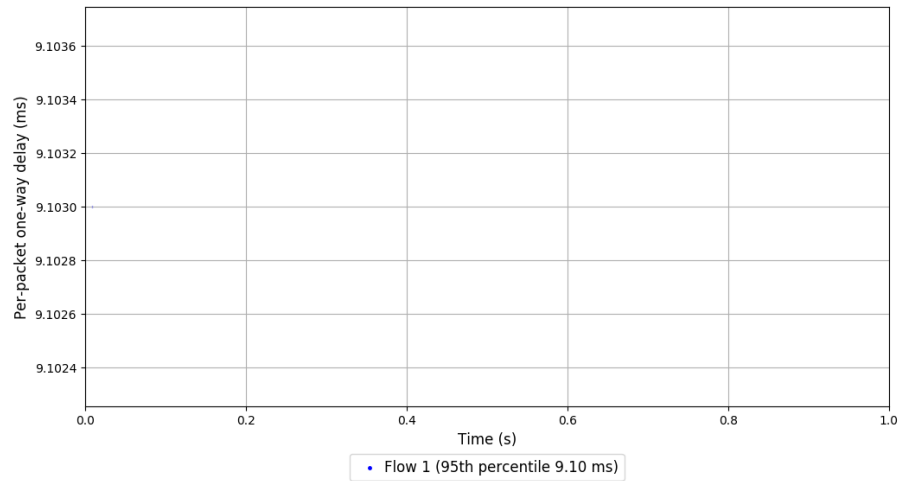
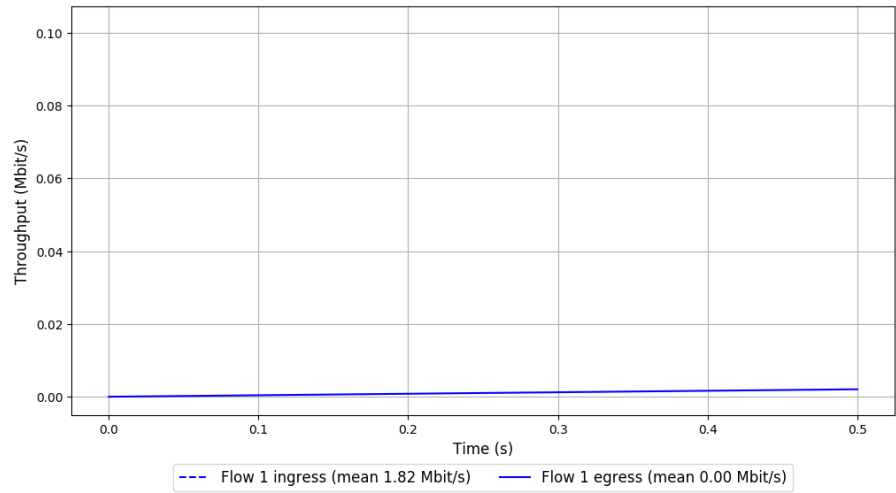
Start at: 2018-08-27 23:36:23

End at: 2018-08-27 23:36:53

Local clock offset: -0.271 ms

Remote clock offset: -3.491 ms

### Run 10: Report of Copa — Data Link

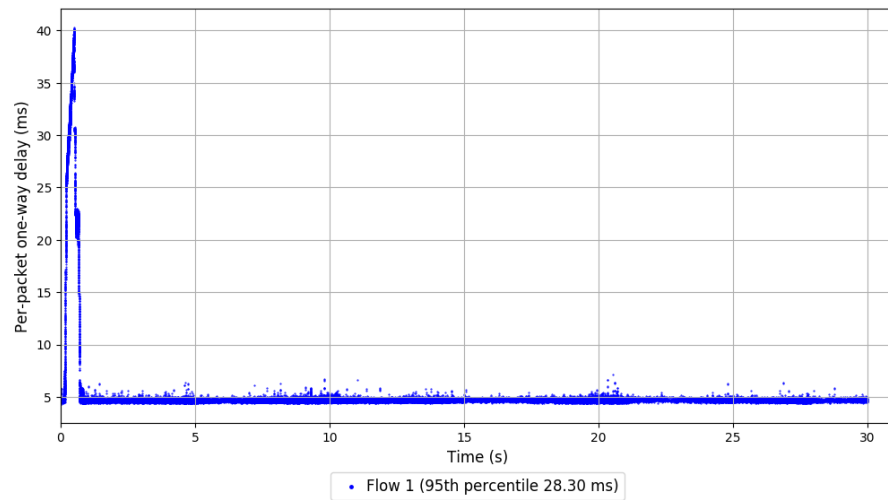
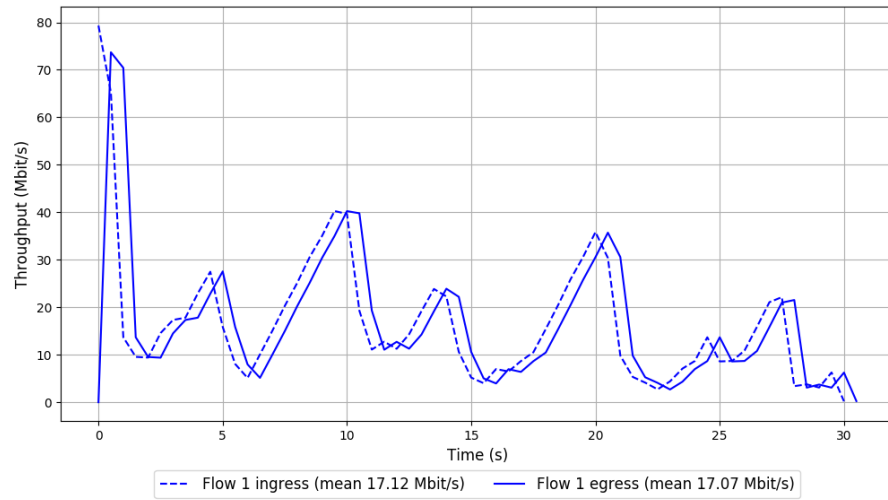


Run 1: Statistics of TCP Cubic

Start at: 2018-08-27 20:44:22  
End at: 2018-08-27 20:44:52  
Local clock offset: 4.032 ms  
Remote clock offset: -3.038 ms

# Below is generated by plot.py at 2018-08-27 23:49:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 17.07 Mbit/s  
95th percentile per-packet one-way delay: 28.305 ms  
Loss rate: 0.30%  
-- Flow 1:  
Average throughput: 17.07 Mbit/s  
95th percentile per-packet one-way delay: 28.305 ms  
Loss rate: 0.30%

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

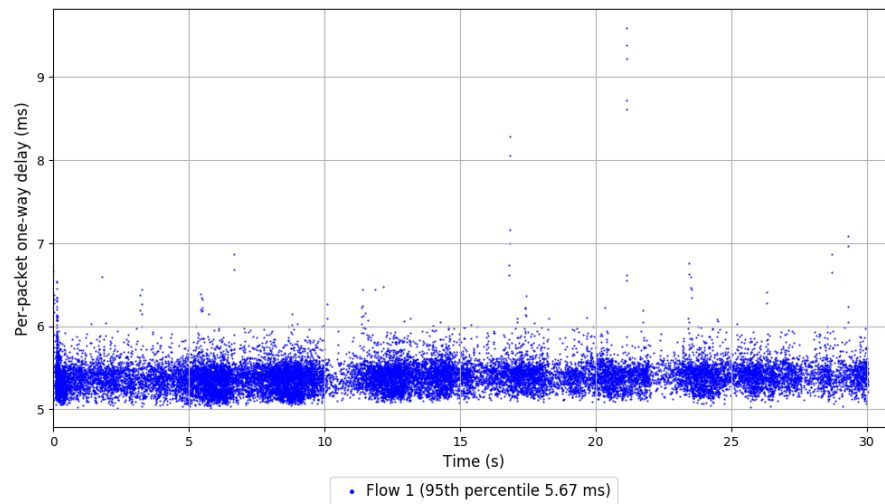
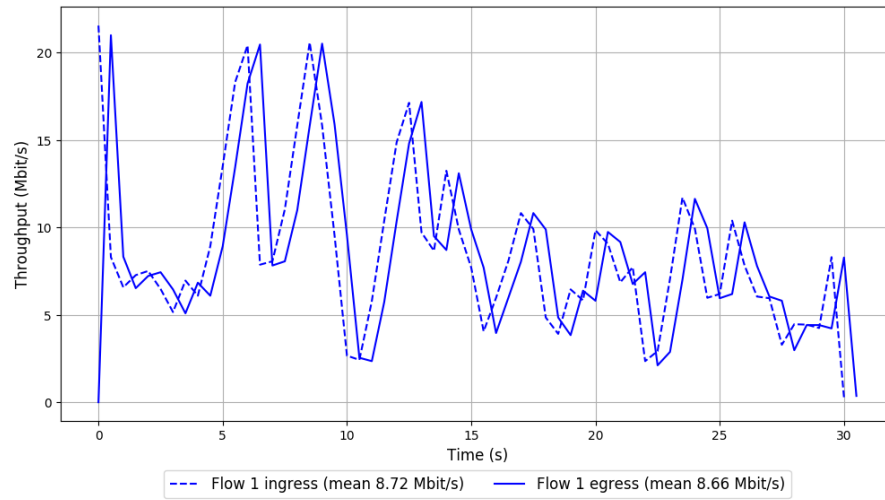


Run 2: Statistics of TCP Cubic

Start at: 2018-08-27 21:03:09  
End at: 2018-08-27 21:03:39  
Local clock offset: 4.403 ms  
Remote clock offset: -3.599 ms

# Below is generated by plot.py at 2018-08-27 23:49:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 8.66 Mbit/s  
95th percentile per-packet one-way delay: 5.669 ms  
Loss rate: 0.67%  
-- Flow 1:  
Average throughput: 8.66 Mbit/s  
95th percentile per-packet one-way delay: 5.669 ms  
Loss rate: 0.67%

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

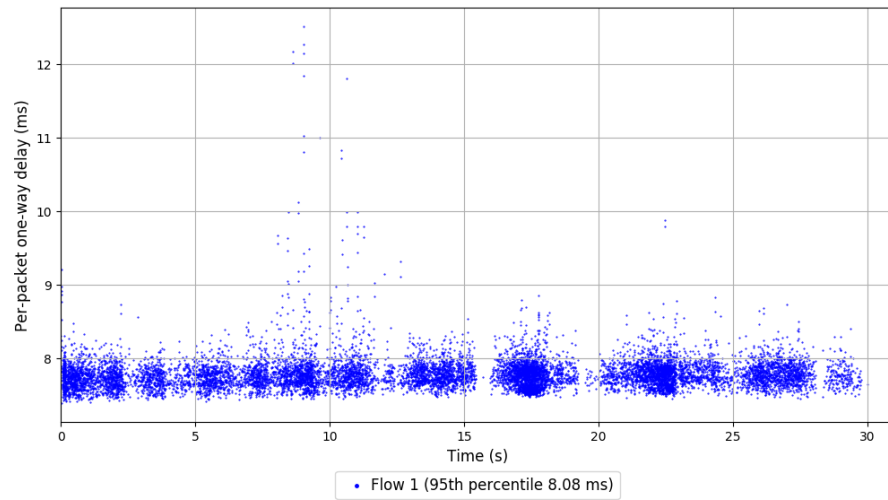
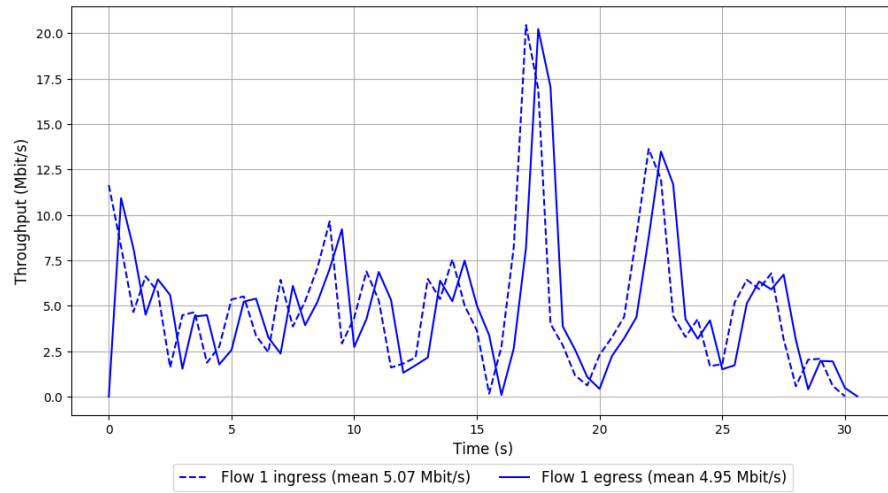


Run 3: Statistics of TCP Cubic

Start at: 2018-08-27 21:21:46  
End at: 2018-08-27 21:22:16  
Local clock offset: 3.121 ms  
Remote clock offset: -2.144 ms

# Below is generated by plot.py at 2018-08-27 23:49:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 4.95 Mbit/s  
95th percentile per-packet one-way delay: 8.081 ms  
Loss rate: 2.37%  
-- Flow 1:  
Average throughput: 4.95 Mbit/s  
95th percentile per-packet one-way delay: 8.081 ms  
Loss rate: 2.37%

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

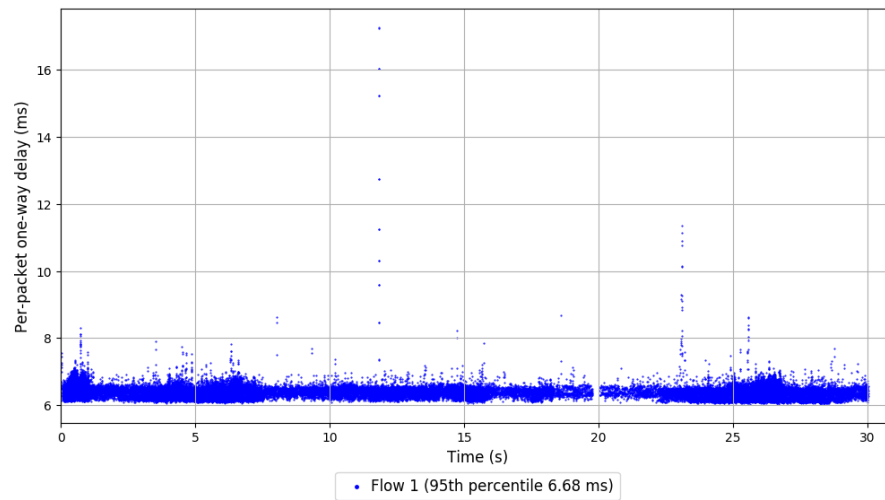
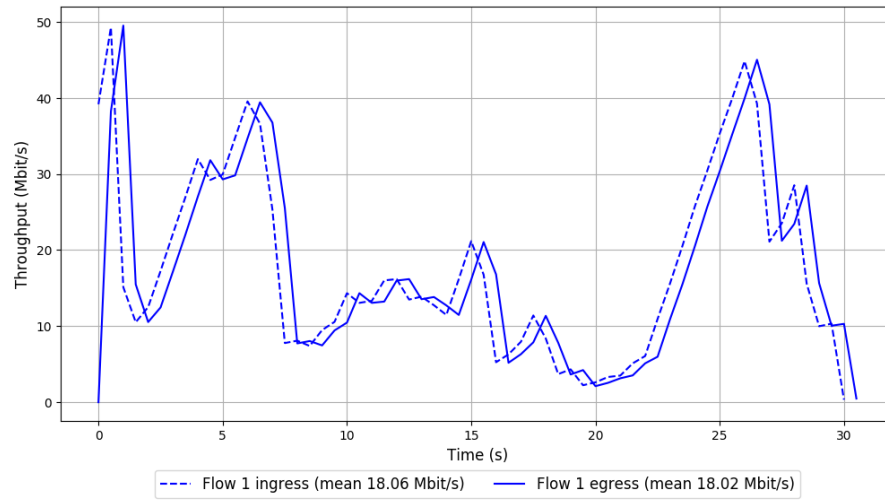


Run 4: Statistics of TCP Cubic

Start at: 2018-08-27 21:40:30  
End at: 2018-08-27 21:41:00  
Local clock offset: -3.473 ms  
Remote clock offset: -9.688 ms

# Below is generated by plot.py at 2018-08-27 23:49:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 18.02 Mbit/s  
95th percentile per-packet one-way delay: 6.680 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 18.02 Mbit/s  
95th percentile per-packet one-way delay: 6.680 ms  
Loss rate: 0.22%

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

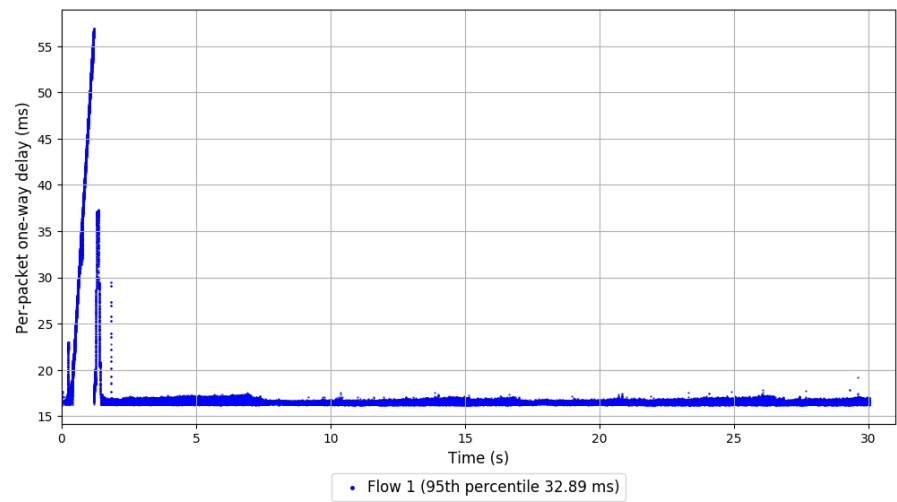
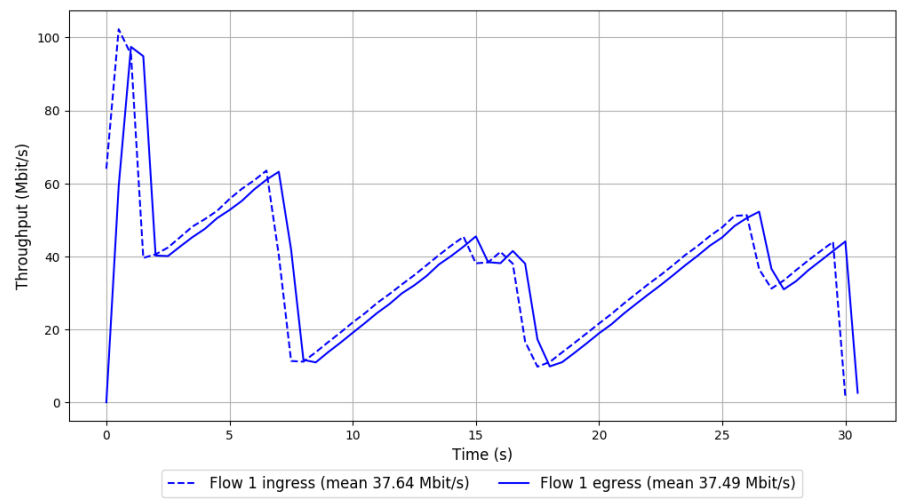


Run 5: Statistics of TCP Cubic

Start at: 2018-08-27 21:59:17  
End at: 2018-08-27 21:59:47  
Local clock offset: 2.146 ms  
Remote clock offset: -2.099 ms

# Below is generated by plot.py at 2018-08-27 23:49:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 37.49 Mbit/s  
95th percentile per-packet one-way delay: 32.889 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 37.49 Mbit/s  
95th percentile per-packet one-way delay: 32.889 ms  
Loss rate: 0.39%

Run 5: Report of TCP Cubic — Data Link

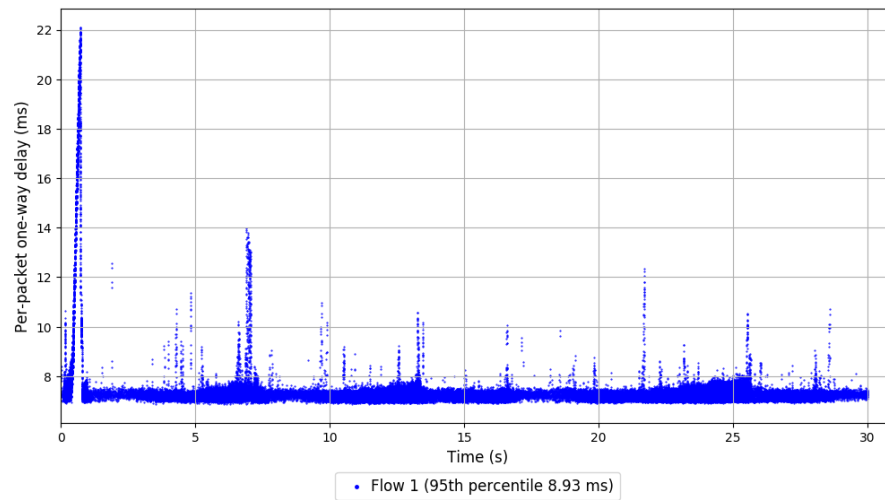
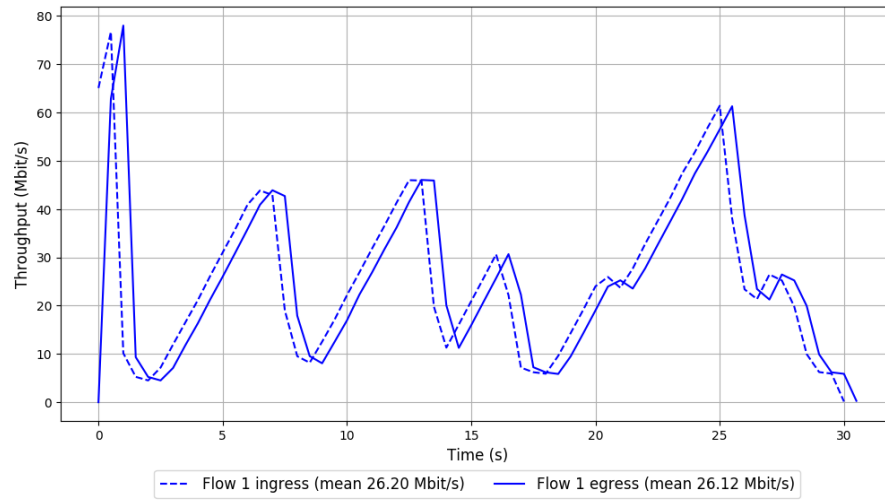


Run 6: Statistics of TCP Cubic

Start at: 2018-08-27 22:18:12  
End at: 2018-08-27 22:18:42  
Local clock offset: 2.261 ms  
Remote clock offset: -3.302 ms

# Below is generated by plot.py at 2018-08-27 23:49:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 26.12 Mbit/s  
95th percentile per-packet one-way delay: 8.933 ms  
Loss rate: 0.33%  
-- Flow 1:  
Average throughput: 26.12 Mbit/s  
95th percentile per-packet one-way delay: 8.933 ms  
Loss rate: 0.33%

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

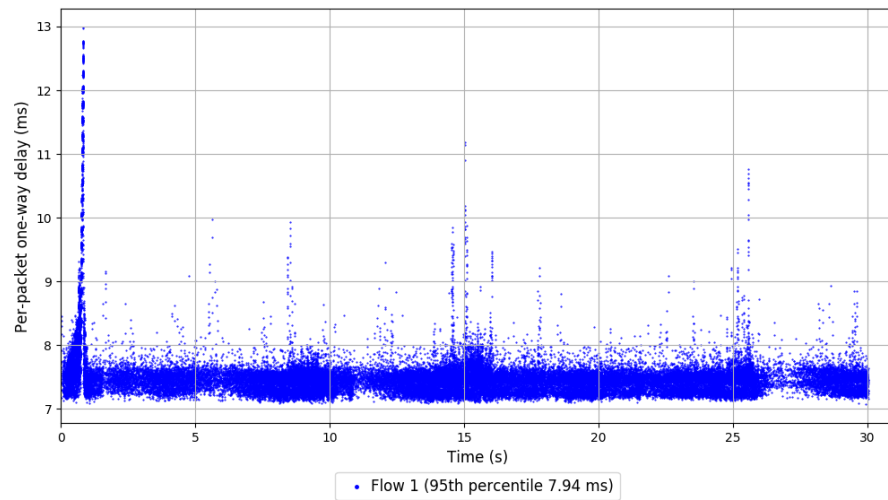
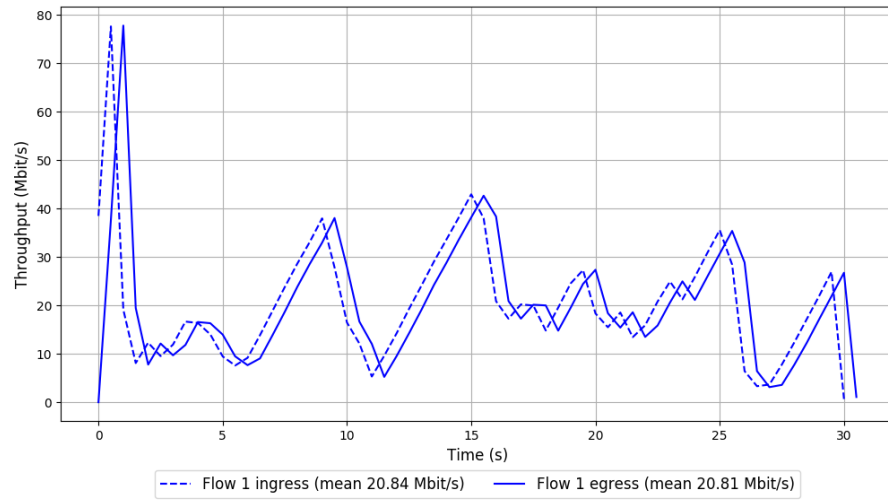


Run 7: Statistics of TCP Cubic

Start at: 2018-08-27 22:36:54  
End at: 2018-08-27 22:37:24  
Local clock offset: 3.122 ms  
Remote clock offset: -2.326 ms

# Below is generated by plot.py at 2018-08-27 23:49:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 20.81 Mbit/s  
95th percentile per-packet one-way delay: 7.941 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 20.81 Mbit/s  
95th percentile per-packet one-way delay: 7.941 ms  
Loss rate: 0.15%

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

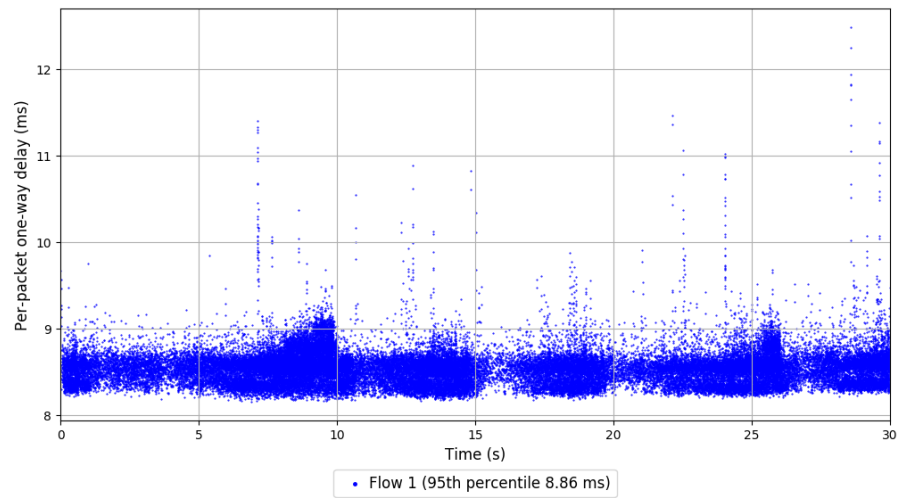
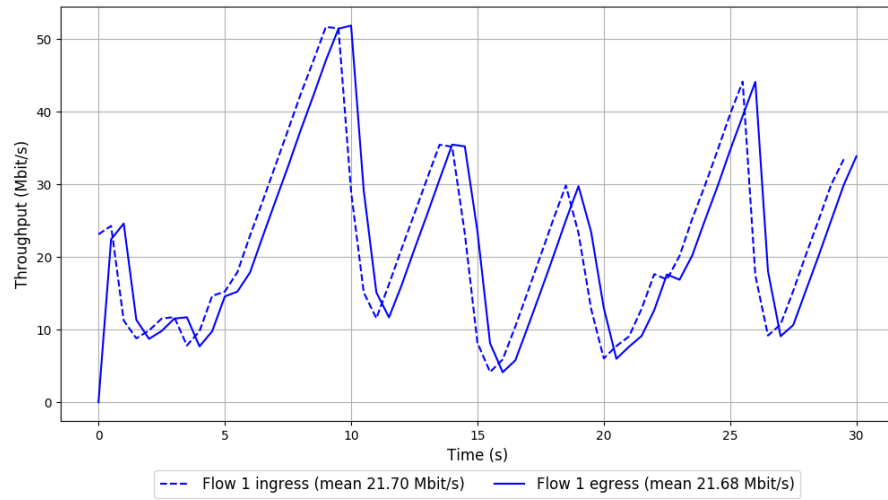


Run 8: Statistics of TCP Cubic

Start at: 2018-08-27 22:55:39  
End at: 2018-08-27 22:56:09  
Local clock offset: 1.258 ms  
Remote clock offset: -3.028 ms

# Below is generated by plot.py at 2018-08-27 23:49:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 21.68 Mbit/s  
95th percentile per-packet one-way delay: 8.864 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 21.68 Mbit/s  
95th percentile per-packet one-way delay: 8.864 ms  
Loss rate: 0.10%

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

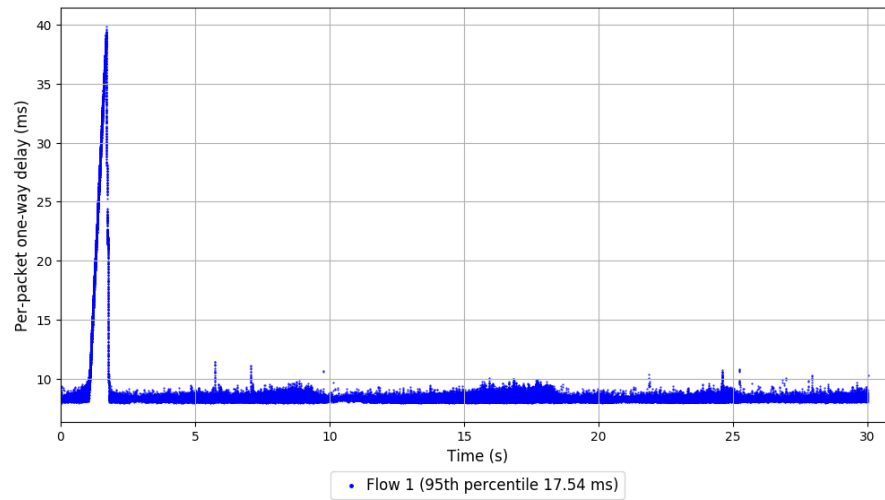
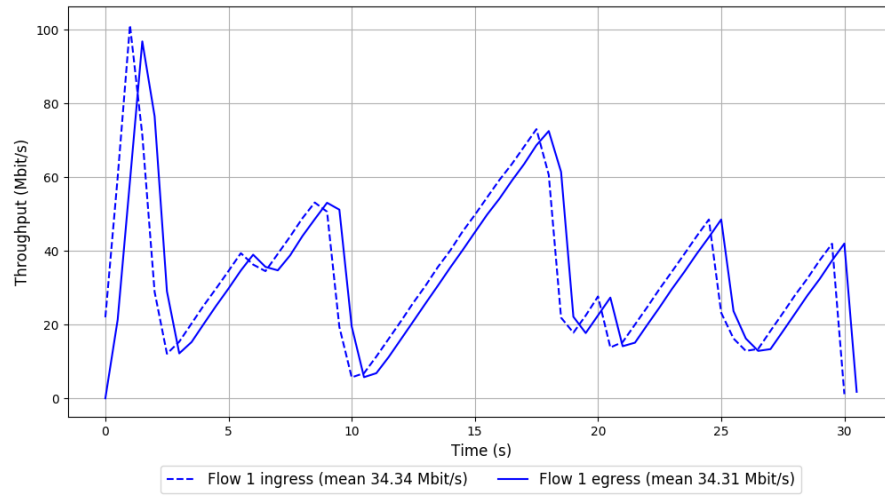


Run 9: Statistics of TCP Cubic

Start at: 2018-08-27 23:14:20  
End at: 2018-08-27 23:14:50  
Local clock offset: 1.221 ms  
Remote clock offset: -3.003 ms

# Below is generated by plot.py at 2018-08-27 23:49:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 34.31 Mbit/s  
95th percentile per-packet one-way delay: 17.542 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 34.31 Mbit/s  
95th percentile per-packet one-way delay: 17.542 ms  
Loss rate: 0.09%

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



Run 10: Statistics of TCP Cubic

Start at: 2018-08-27 23:33:07

End at: 2018-08-27 23:33:37

Local clock offset: 0.669 ms

Remote clock offset: -2.66 ms

# Below is generated by plot.py at 2018-08-27 23:49:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 43.18 Mbit/s

95th percentile per-packet one-way delay: 9.175 ms

Loss rate: 0.05%

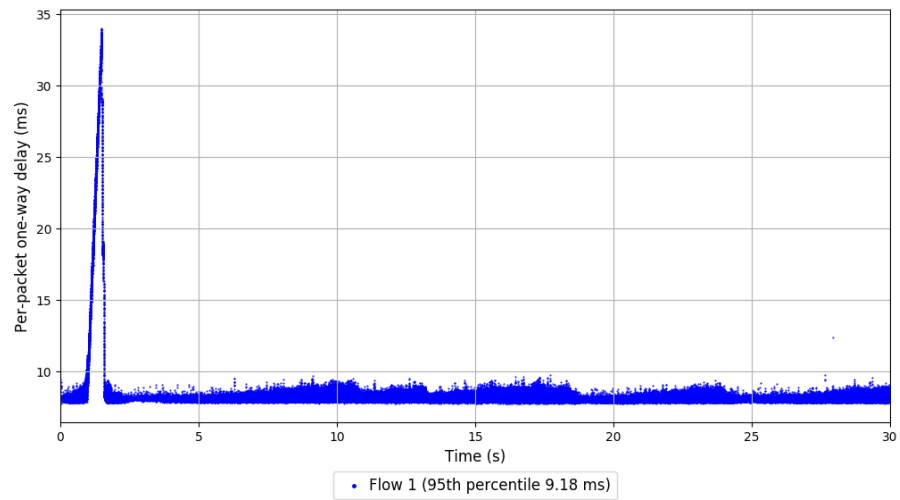
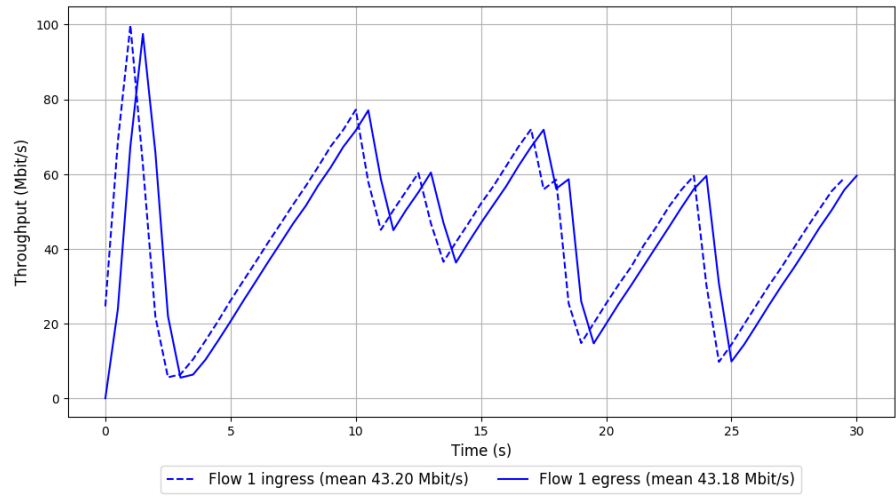
-- Flow 1:

Average throughput: 43.18 Mbit/s

95th percentile per-packet one-way delay: 9.175 ms

Loss rate: 0.05%

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

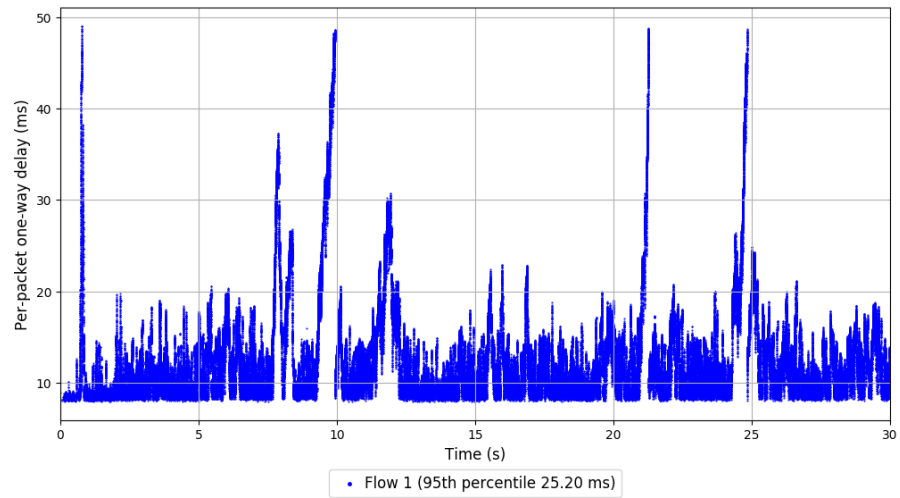
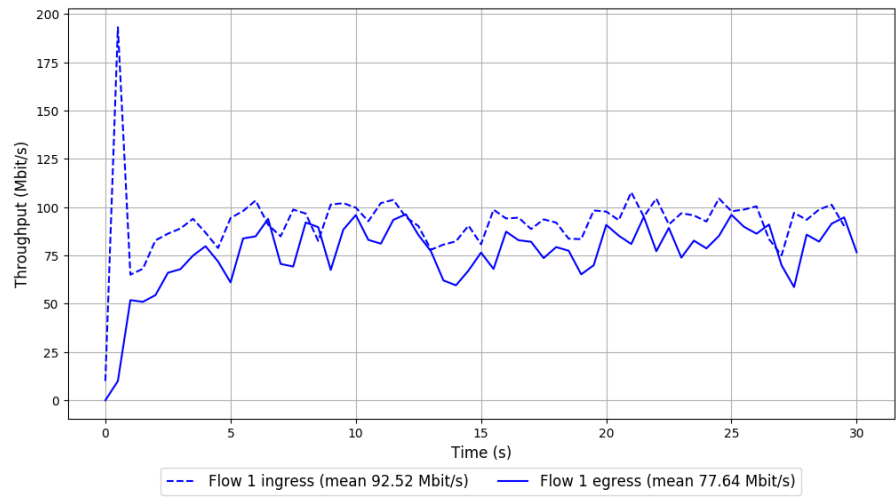


Run 1: Statistics of FillP

Start at: 2018-08-27 20:38:38  
End at: 2018-08-27 20:39:08  
Local clock offset: 0.394 ms  
Remote clock offset: -2.524 ms

# Below is generated by plot.py at 2018-08-27 23:50:17  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 77.64 Mbit/s  
95th percentile per-packet one-way delay: 25.202 ms  
Loss rate: 16.07%  
-- Flow 1:  
Average throughput: 77.64 Mbit/s  
95th percentile per-packet one-way delay: 25.202 ms  
Loss rate: 16.07%

## Run 1: Report of FillP — Data Link

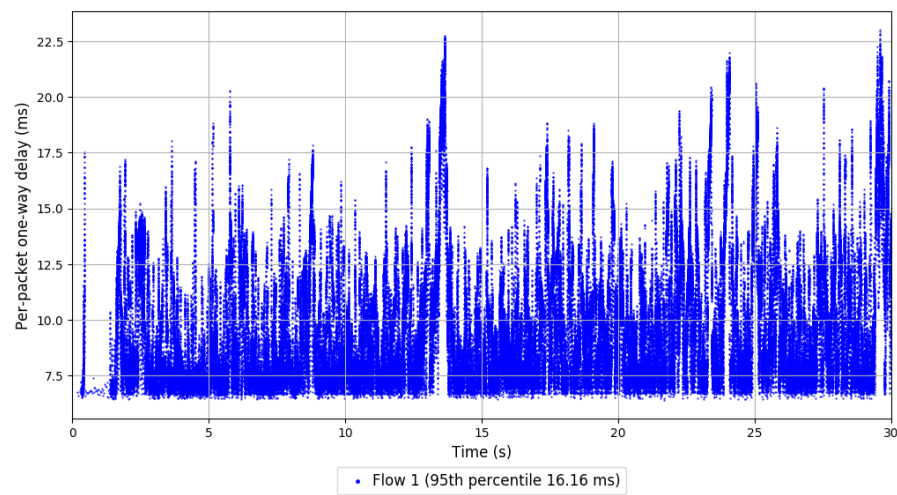
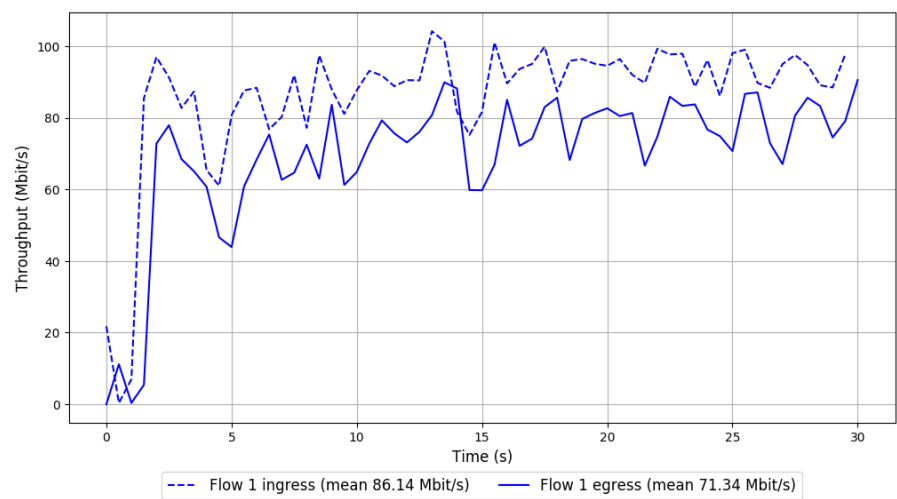


Run 2: Statistics of FillP

Start at: 2018-08-27 20:57:36  
End at: 2018-08-27 20:58:06  
Local clock offset: 2.175 ms  
Remote clock offset: -3.108 ms

# Below is generated by plot.py at 2018-08-27 23:50:17  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 71.34 Mbit/s  
95th percentile per-packet one-way delay: 16.157 ms  
Loss rate: 17.72%  
-- Flow 1:  
Average throughput: 71.34 Mbit/s  
95th percentile per-packet one-way delay: 16.157 ms  
Loss rate: 17.72%

Run 2: Report of FillP — Data Link

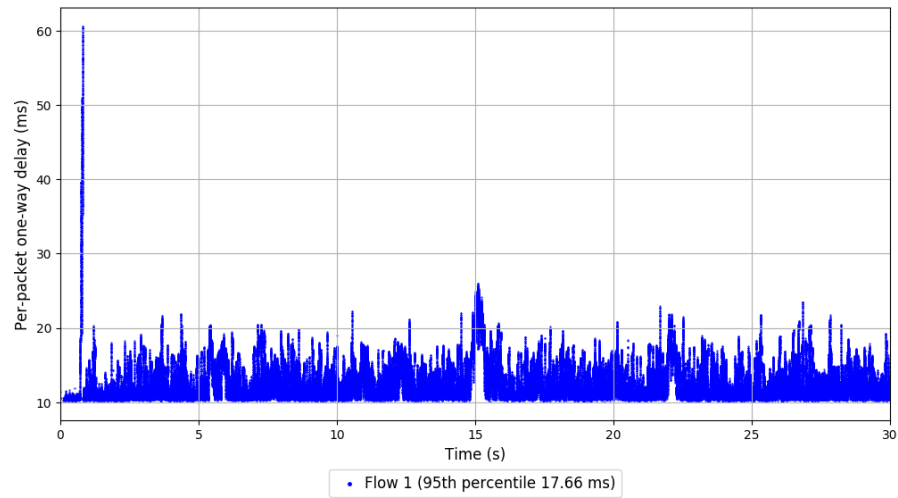
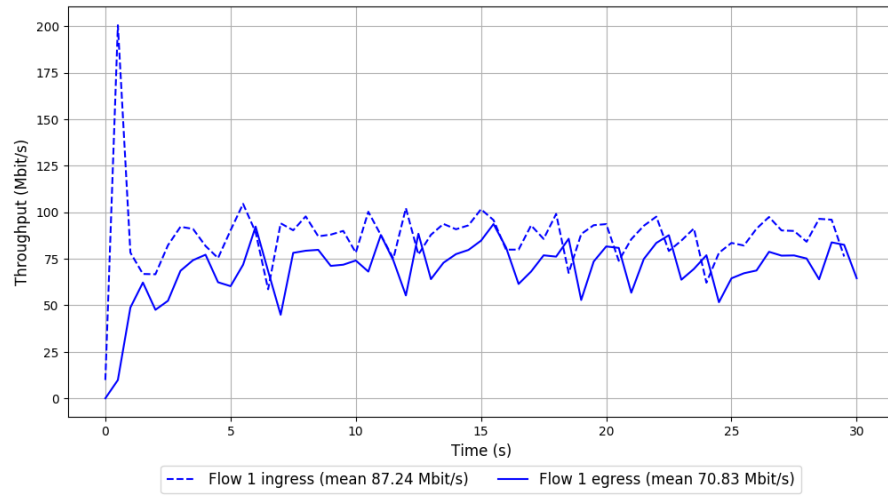


Run 3: Statistics of FillP

Start at: 2018-08-27 21:16:13  
End at: 2018-08-27 21:16:43  
Local clock offset: -0.695 ms  
Remote clock offset: -2.923 ms

# Below is generated by plot.py at 2018-08-27 23:50:17  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 70.83 Mbit/s  
95th percentile per-packet one-way delay: 17.657 ms  
Loss rate: 18.82%  
-- Flow 1:  
Average throughput: 70.83 Mbit/s  
95th percentile per-packet one-way delay: 17.657 ms  
Loss rate: 18.82%

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

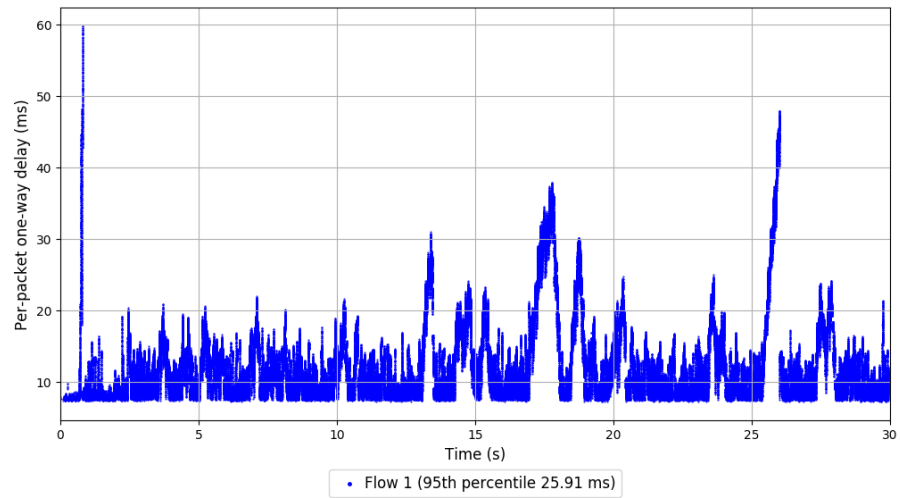
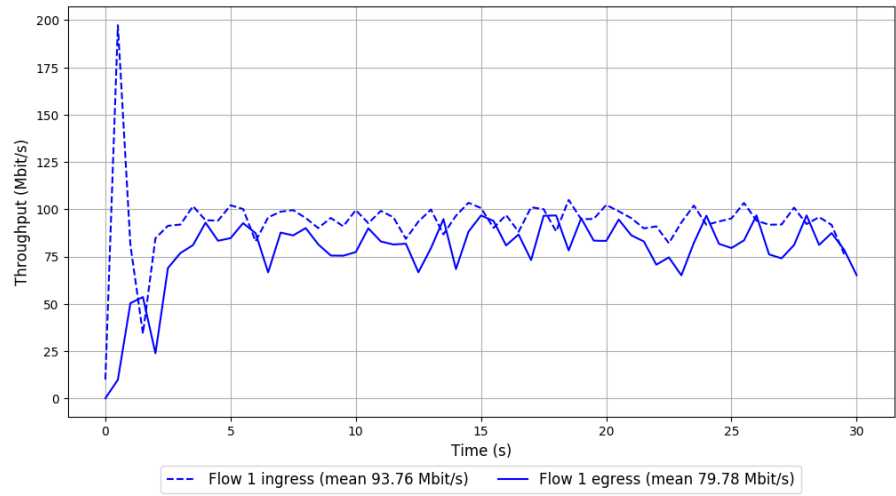


Run 4: Statistics of FillP

Start at: 2018-08-27 21:34:52  
End at: 2018-08-27 21:35:22  
Local clock offset: 1.87 ms  
Remote clock offset: -2.641 ms

# Below is generated by plot.py at 2018-08-27 23:50:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 79.78 Mbit/s  
95th percentile per-packet one-way delay: 25.913 ms  
Loss rate: 14.91%  
-- Flow 1:  
Average throughput: 79.78 Mbit/s  
95th percentile per-packet one-way delay: 25.913 ms  
Loss rate: 14.91%

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



Run 5: Statistics of FillP

Start at: 2018-08-27 21:53:41

End at: 2018-08-27 21:54:11

Local clock offset: -0.623 ms

Remote clock offset: -2.8 ms

# Below is generated by plot.py at 2018-08-27 23:50:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.08 Mbit/s

95th percentile per-packet one-way delay: 41.415 ms

Loss rate: 10.81%

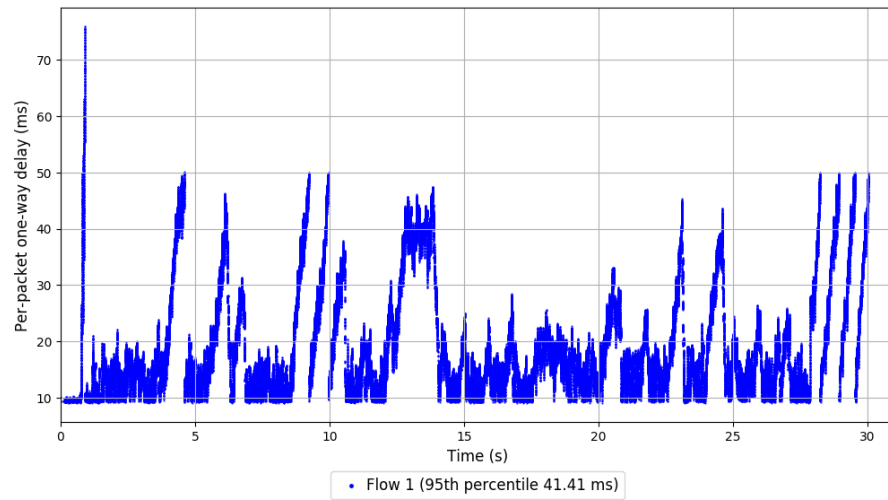
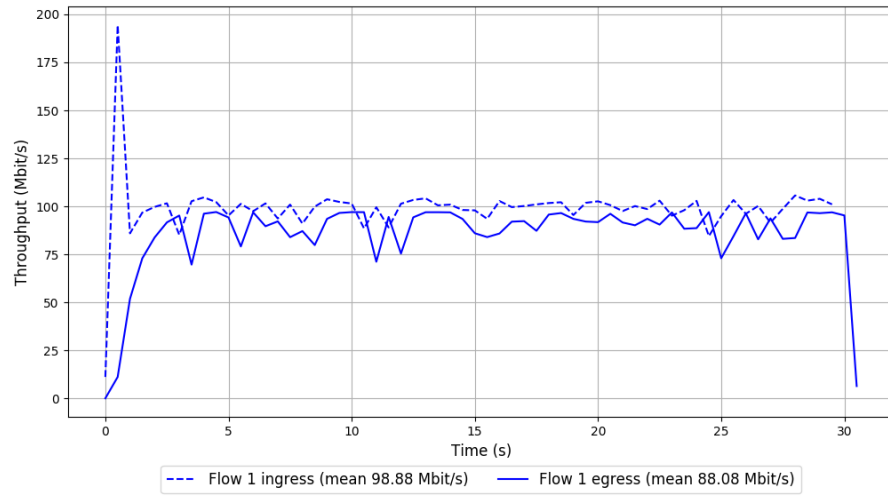
-- Flow 1:

Average throughput: 88.08 Mbit/s

95th percentile per-packet one-way delay: 41.415 ms

Loss rate: 10.81%

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



Run 6: Statistics of FillP

Start at: 2018-08-27 22:12:35

End at: 2018-08-27 22:13:05

Local clock offset: 2.961 ms

Remote clock offset: -3.09 ms

# Below is generated by plot.py at 2018-08-27 23:50:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.67 Mbit/s

95th percentile per-packet one-way delay: 39.589 ms

Loss rate: 10.62%

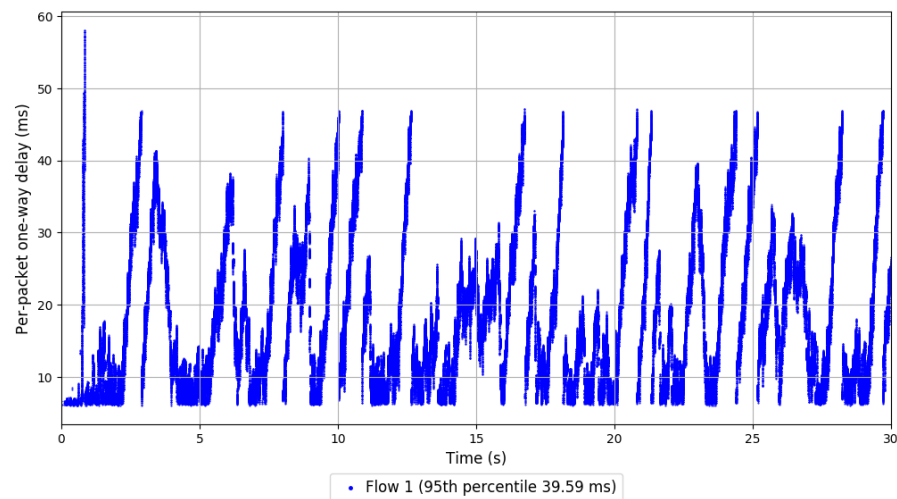
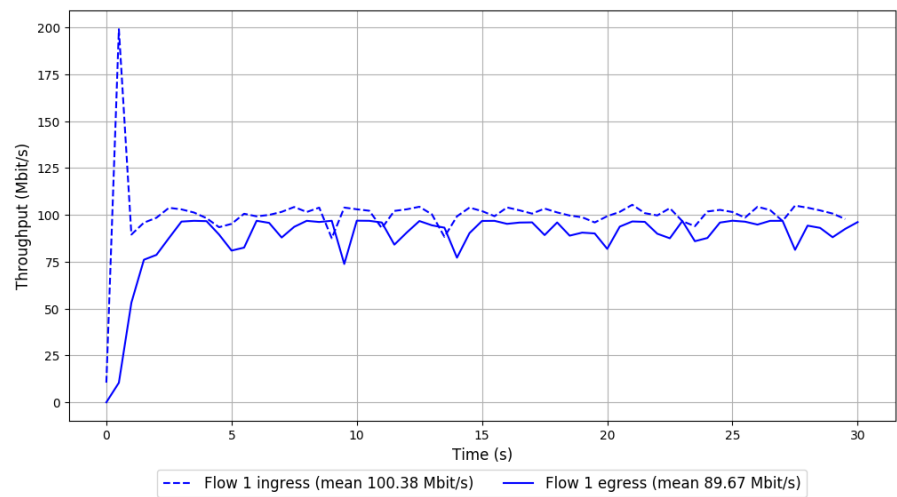
-- Flow 1:

Average throughput: 89.67 Mbit/s

95th percentile per-packet one-way delay: 39.589 ms

Loss rate: 10.62%

Run 6: Report of FillP — Data Link

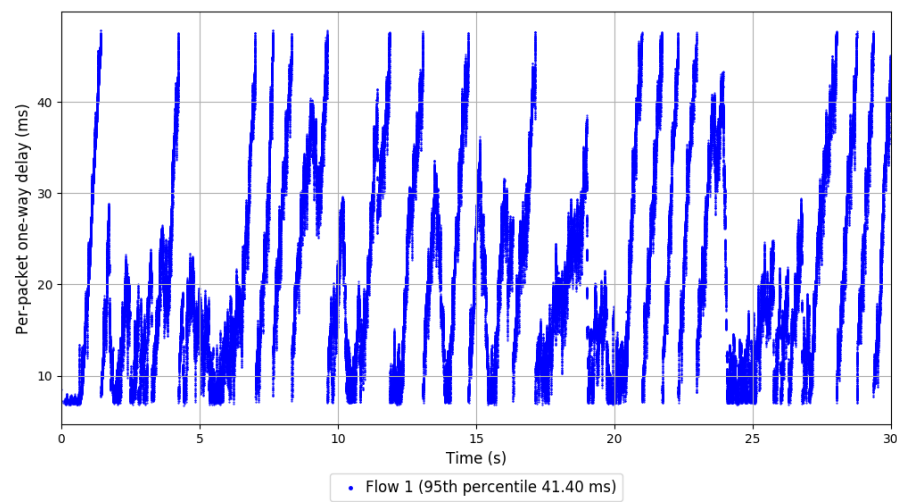
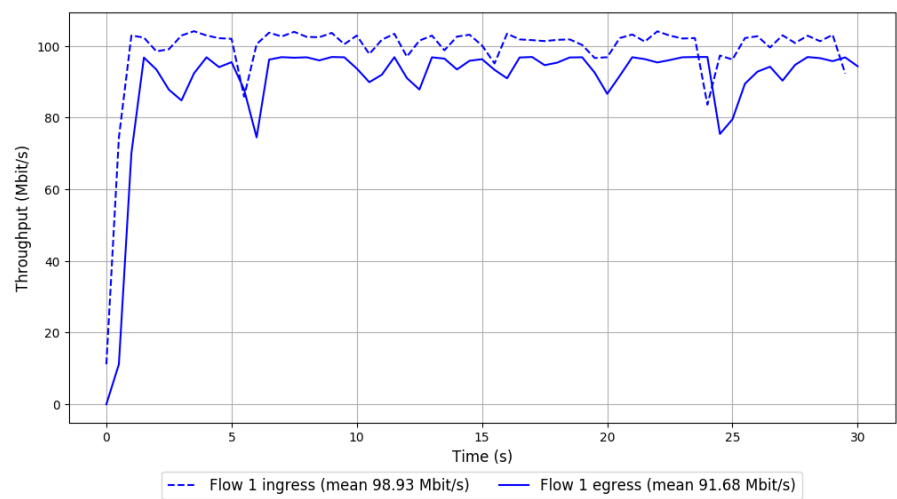


Run 7: Statistics of FillP

Start at: 2018-08-27 22:31:21  
End at: 2018-08-27 22:31:51  
Local clock offset: 2.21 ms  
Remote clock offset: -3.445 ms

# Below is generated by plot.py at 2018-08-27 23:50:43  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 91.68 Mbit/s  
95th percentile per-packet one-way delay: 41.404 ms  
Loss rate: 7.21%  
-- Flow 1:  
Average throughput: 91.68 Mbit/s  
95th percentile per-packet one-way delay: 41.404 ms  
Loss rate: 7.21%

Run 7: Report of FillP — Data Link

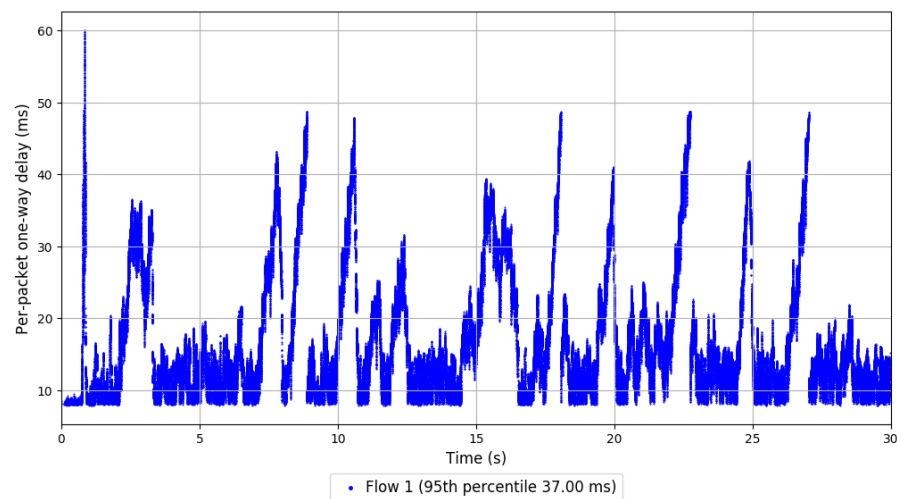
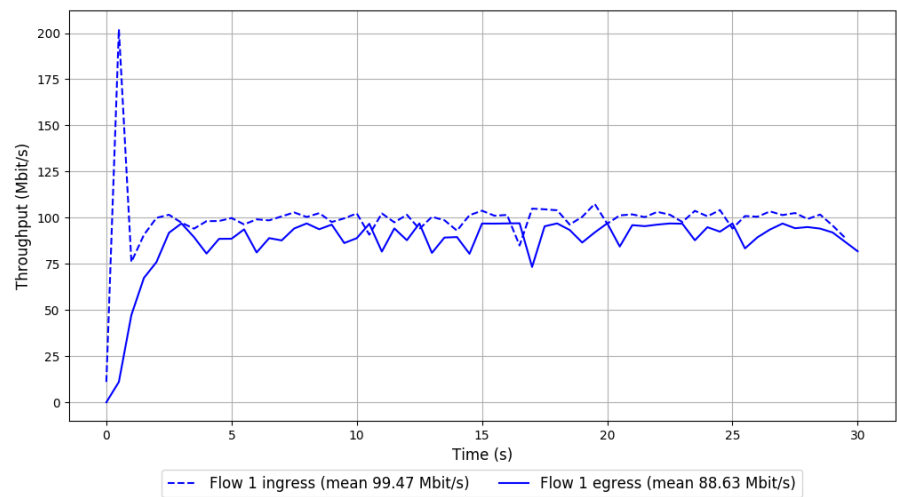


Run 8: Statistics of FillP

Start at: 2018-08-27 22:50:04  
End at: 2018-08-27 22:50:34  
Local clock offset: 1.915 ms  
Remote clock offset: -2.441 ms

# Below is generated by plot.py at 2018-08-27 23:50:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 88.63 Mbit/s  
95th percentile per-packet one-way delay: 37.000 ms  
Loss rate: 10.88%  
-- Flow 1:  
Average throughput: 88.63 Mbit/s  
95th percentile per-packet one-way delay: 37.000 ms  
Loss rate: 10.88%

Run 8: Report of FillP — Data Link

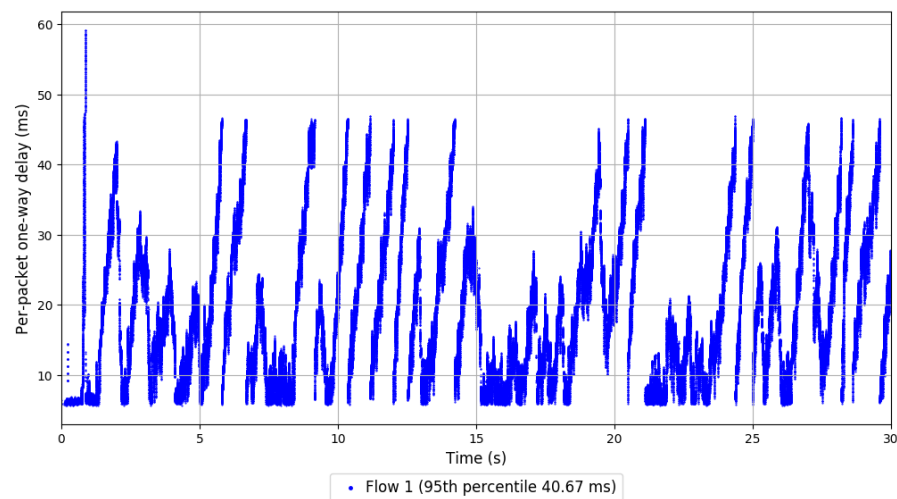
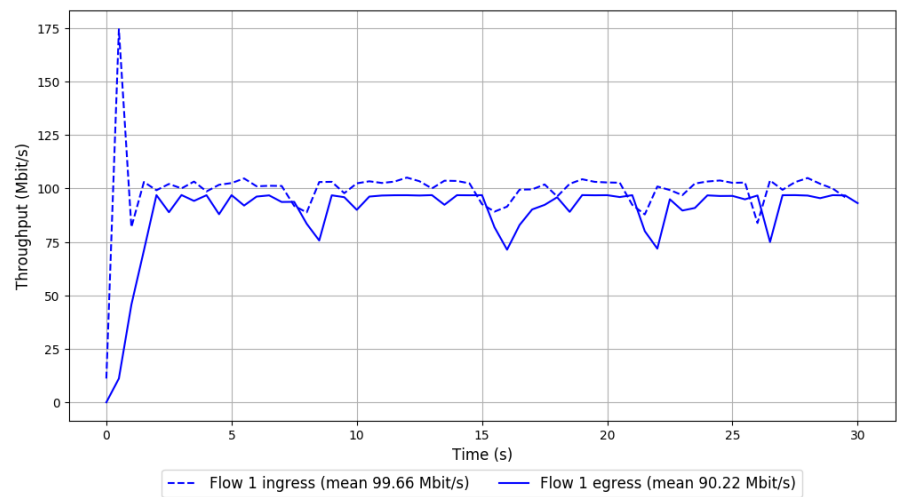


Run 9: Statistics of FillP

Start at: 2018-08-27 23:08:47  
End at: 2018-08-27 23:09:17  
Local clock offset: 3.281 ms  
Remote clock offset: -3.075 ms

# Below is generated by plot.py at 2018-08-27 23:51:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 90.22 Mbit/s  
95th percentile per-packet one-way delay: 40.674 ms  
Loss rate: 9.44%  
-- Flow 1:  
Average throughput: 90.22 Mbit/s  
95th percentile per-packet one-way delay: 40.674 ms  
Loss rate: 9.44%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-08-27 23:27:32

End at: 2018-08-27 23:28:02

Local clock offset: 0.957 ms

Remote clock offset: -2.798 ms

# Below is generated by plot.py at 2018-08-27 23:51:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.11 Mbit/s

95th percentile per-packet one-way delay: 40.270 ms

Loss rate: 10.26%

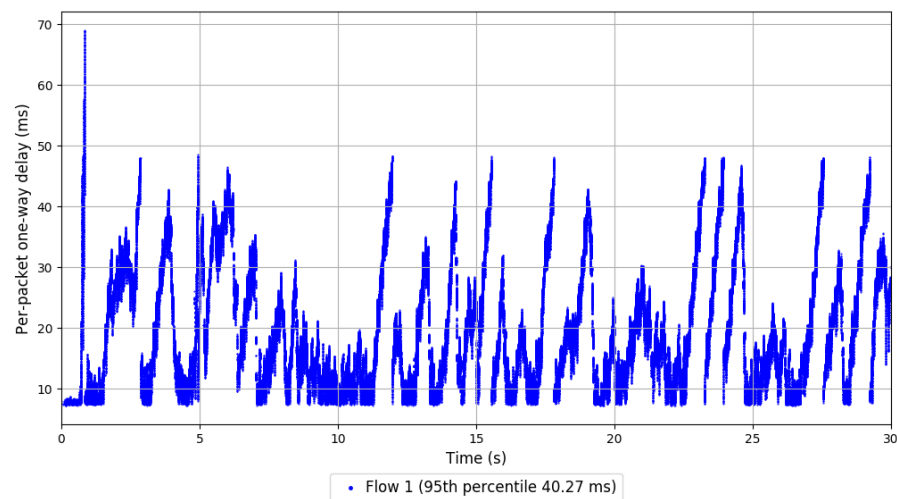
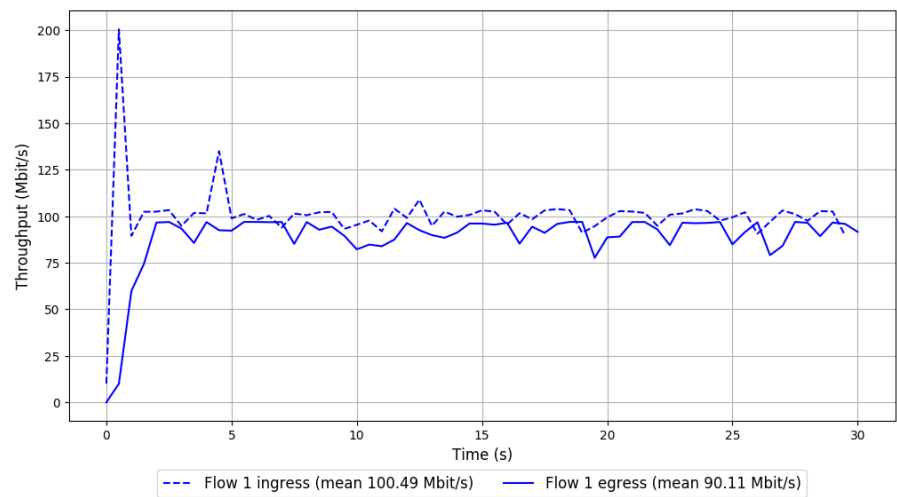
-- Flow 1:

Average throughput: 90.11 Mbit/s

95th percentile per-packet one-way delay: 40.270 ms

Loss rate: 10.26%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-08-27 20:54:15

End at: 2018-08-27 20:54:45

Local clock offset: 3.275 ms

Remote clock offset: -2.75 ms

# Below is generated by plot.py at 2018-08-27 23:51:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.26 Mbit/s

95th percentile per-packet one-way delay: 21.916 ms

Loss rate: 12.81%

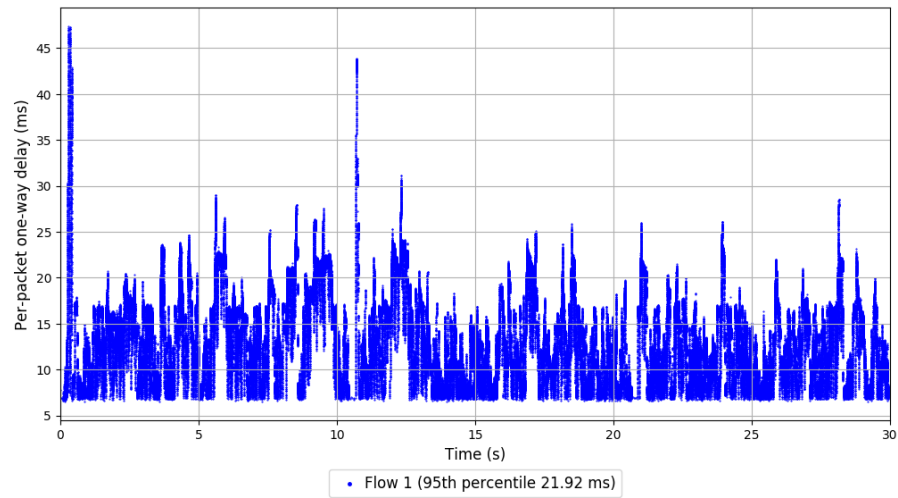
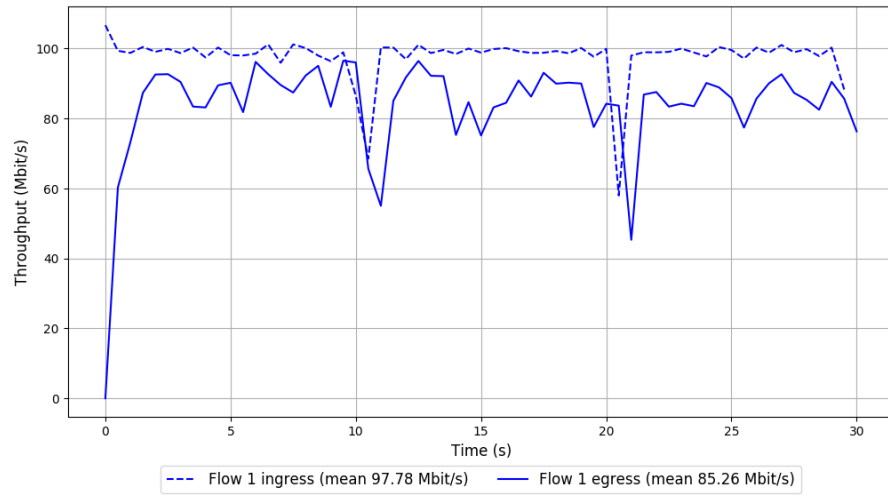
-- Flow 1:

Average throughput: 85.26 Mbit/s

95th percentile per-packet one-way delay: 21.916 ms

Loss rate: 12.81%

### Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-08-27 21:12:56

End at: 2018-08-27 21:13:26

Local clock offset: 1.829 ms

Remote clock offset: -3.469 ms

# Below is generated by plot.py at 2018-08-27 23:51:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 81.75 Mbit/s

95th percentile per-packet one-way delay: 21.202 ms

Loss rate: 16.26%

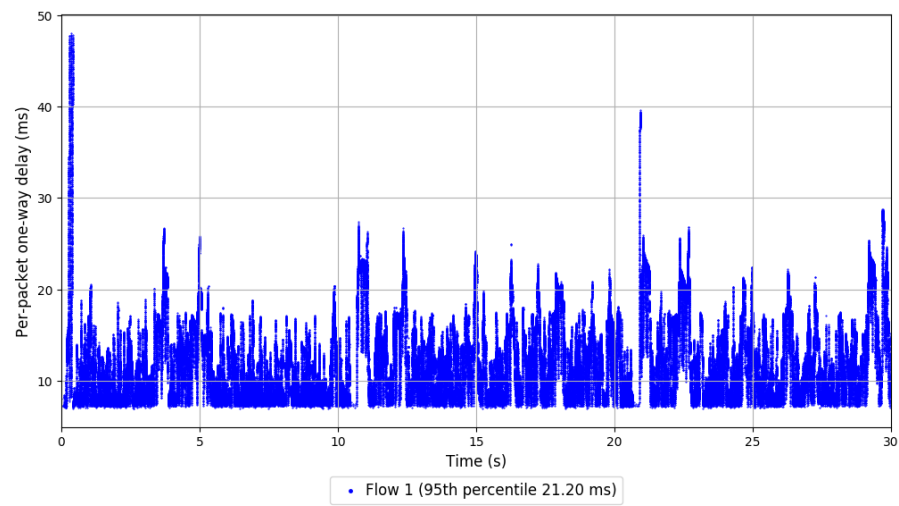
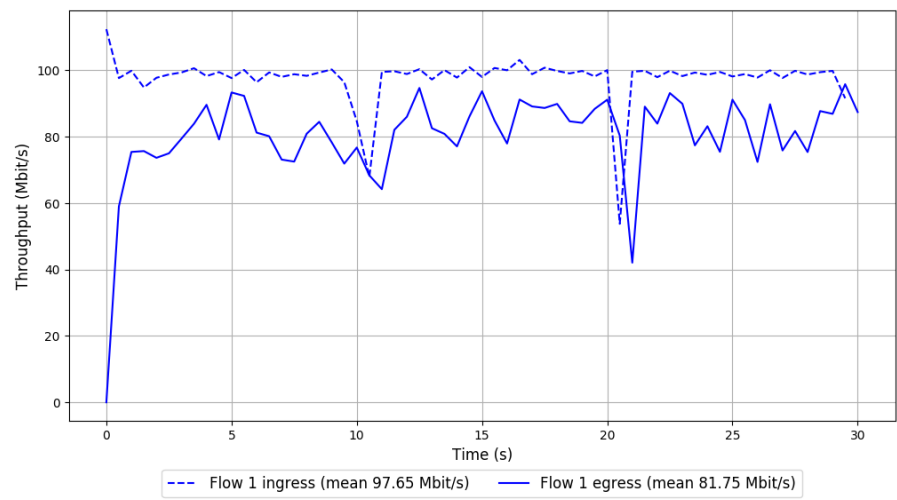
-- Flow 1:

Average throughput: 81.75 Mbit/s

95th percentile per-packet one-way delay: 21.202 ms

Loss rate: 16.26%

Run 2: Report of FillP-Sheep — Data Link

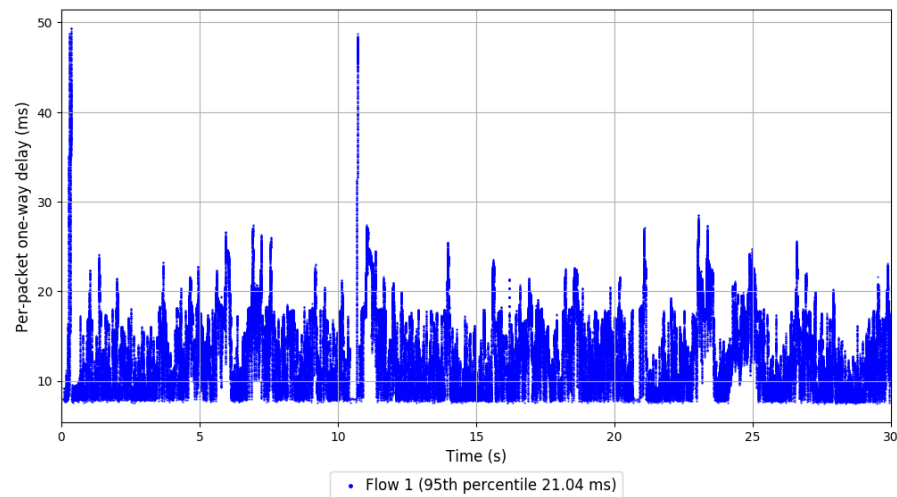
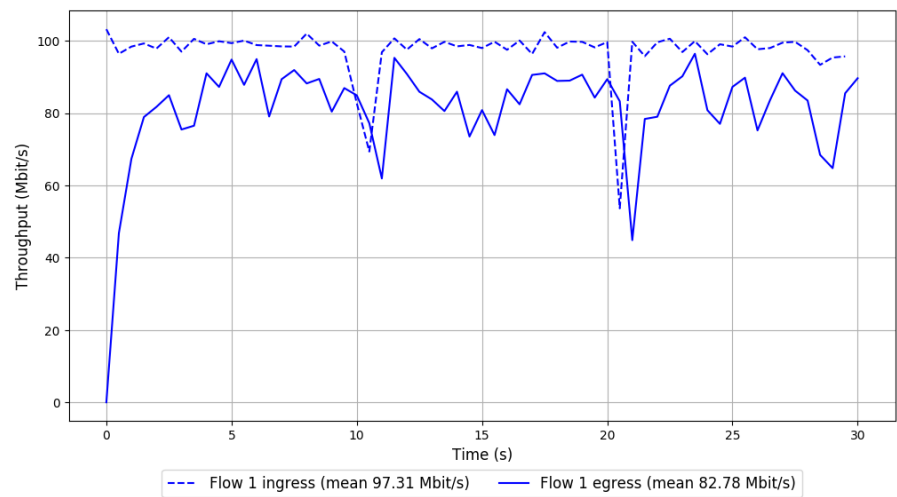


Run 3: Statistics of FillP-Sheep

Start at: 2018-08-27 21:31:36  
End at: 2018-08-27 21:32:06  
Local clock offset: 2.6 ms  
Remote clock offset: -3.362 ms

# Below is generated by plot.py at 2018-08-27 23:51:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 82.78 Mbit/s  
95th percentile per-packet one-way delay: 21.043 ms  
Loss rate: 14.93%  
-- Flow 1:  
Average throughput: 82.78 Mbit/s  
95th percentile per-packet one-way delay: 21.043 ms  
Loss rate: 14.93%

Run 3: Report of FillP-Sheep — Data Link

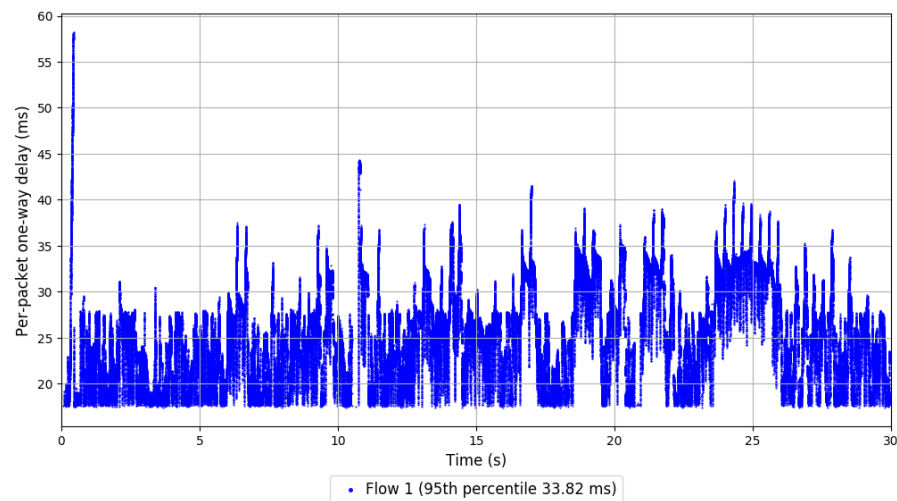
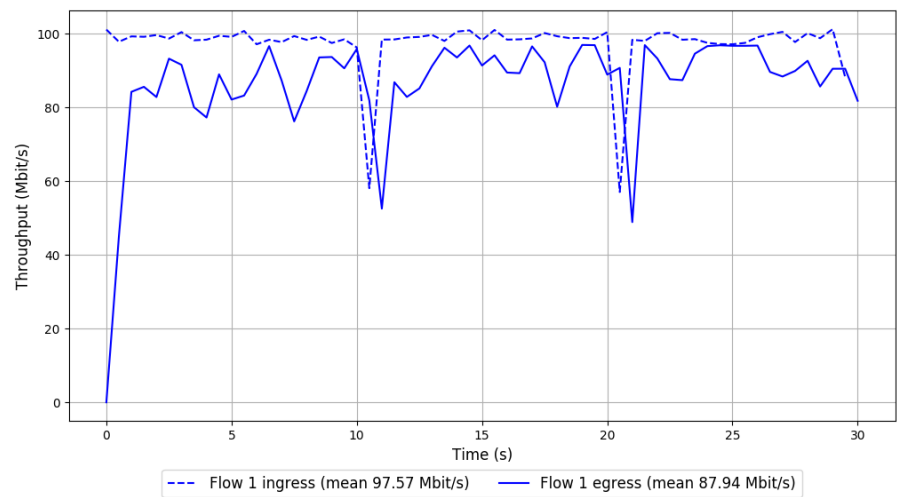


Run 4: Statistics of FillP-Sheep

Start at: 2018-08-27 21:50:23  
End at: 2018-08-27 21:50:53  
Local clock offset: 0.259 ms  
Remote clock offset: -2.858 ms

# Below is generated by plot.py at 2018-08-27 23:52:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 87.94 Mbit/s  
95th percentile per-packet one-way delay: 33.823 ms  
Loss rate: 9.85%  
-- Flow 1:  
Average throughput: 87.94 Mbit/s  
95th percentile per-packet one-way delay: 33.823 ms  
Loss rate: 9.85%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-08-27 22:09:18

End at: 2018-08-27 22:09:48

Local clock offset: 0.48 ms

Remote clock offset: -2.875 ms

# Below is generated by plot.py at 2018-08-27 23:52:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.32 Mbit/s

95th percentile per-packet one-way delay: 33.991 ms

Loss rate: 7.91%

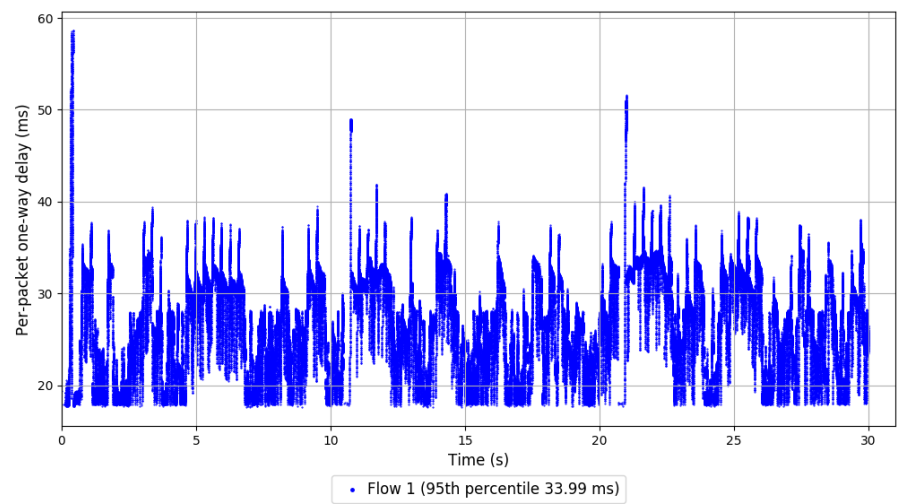
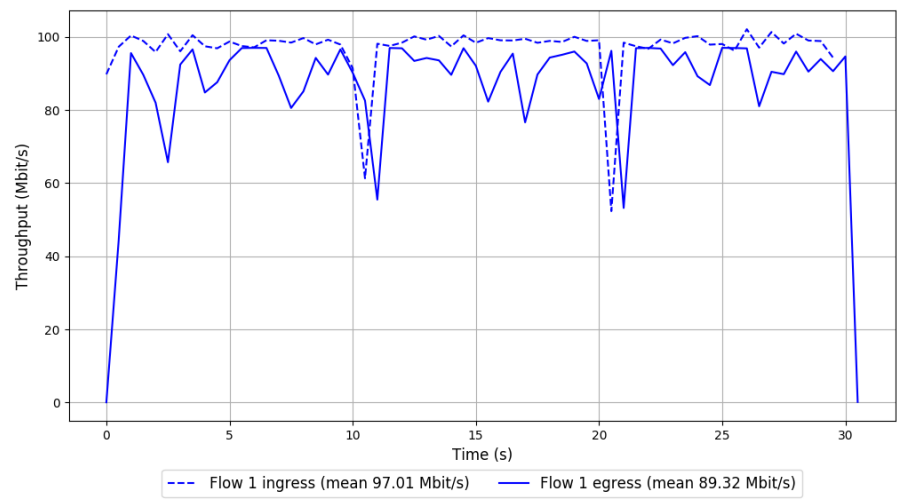
-- Flow 1:

Average throughput: 89.32 Mbit/s

95th percentile per-packet one-way delay: 33.991 ms

Loss rate: 7.91%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-08-27 22:28:04

End at: 2018-08-27 22:28:34

Local clock offset: 2.403 ms

Remote clock offset: -2.695 ms

# Below is generated by plot.py at 2018-08-27 23:52:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.08 Mbit/s

95th percentile per-packet one-way delay: 24.183 ms

Loss rate: 7.61%

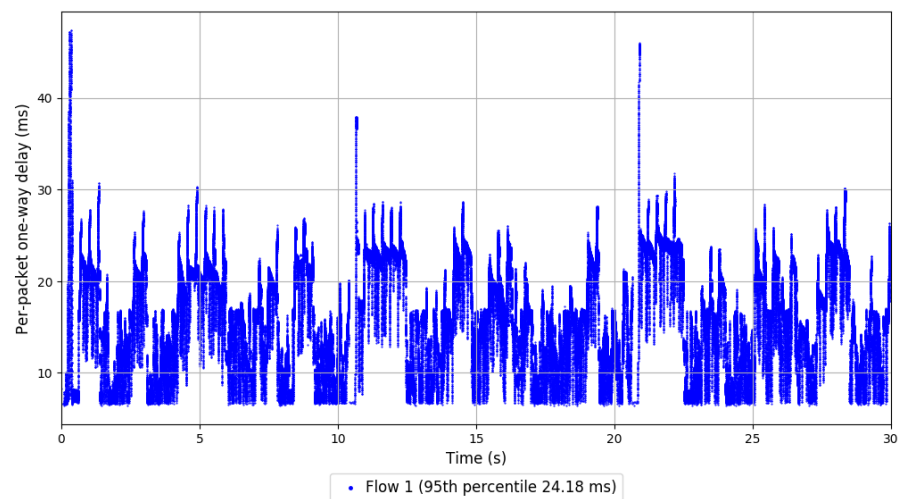
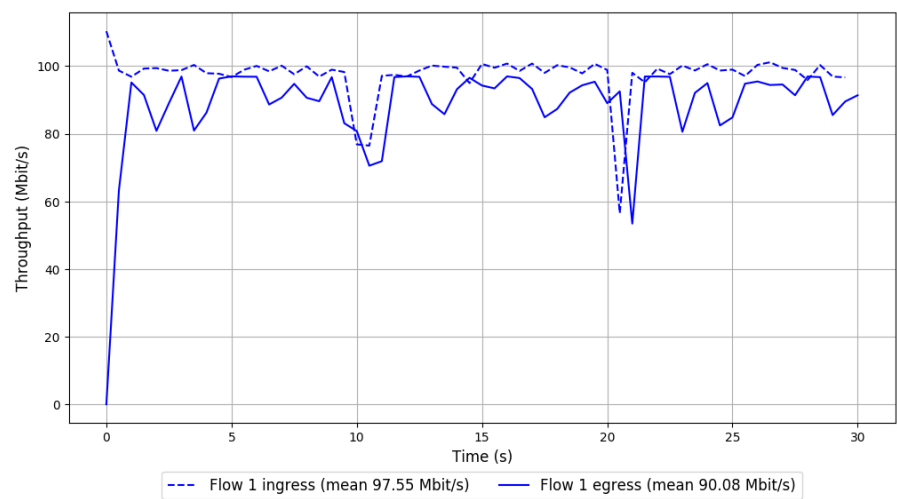
-- Flow 1:

Average throughput: 90.08 Mbit/s

95th percentile per-packet one-way delay: 24.183 ms

Loss rate: 7.61%

Run 6: Report of FillP-Sheep — Data Link

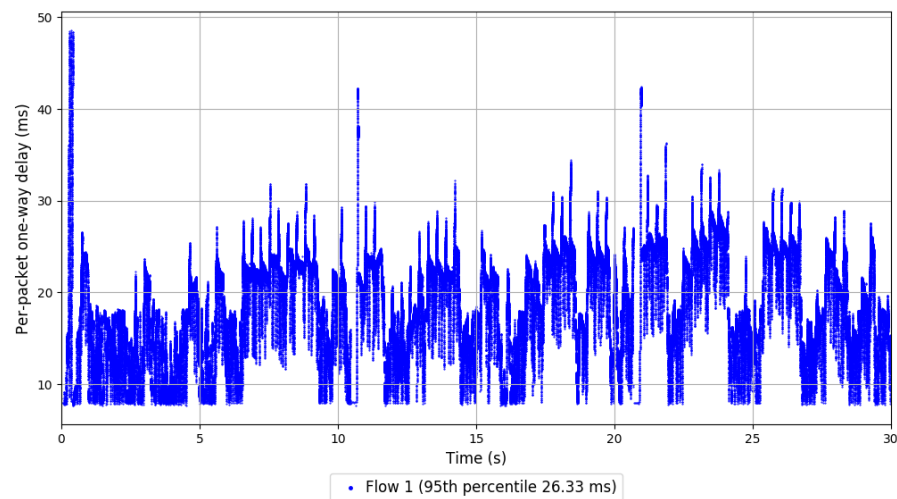
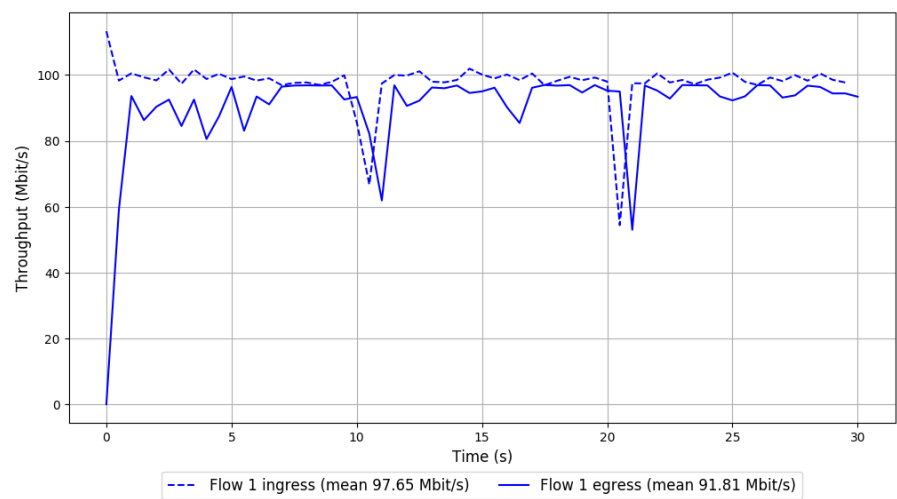


Run 7: Statistics of FillP-Sheep

Start at: 2018-08-27 22:46:48  
End at: 2018-08-27 22:47:18  
Local clock offset: 1.076 ms  
Remote clock offset: -2.632 ms

# Below is generated by plot.py at 2018-08-27 23:52:59  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 91.81 Mbit/s  
95th percentile per-packet one-way delay: 26.332 ms  
Loss rate: 5.97%  
-- Flow 1:  
Average throughput: 91.81 Mbit/s  
95th percentile per-packet one-way delay: 26.332 ms  
Loss rate: 5.97%

Run 7: Report of FillP-Sheep — Data Link

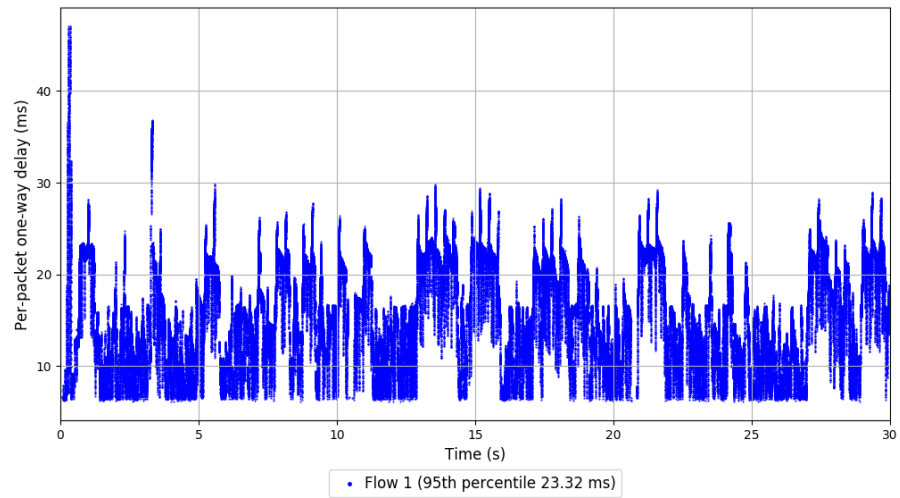
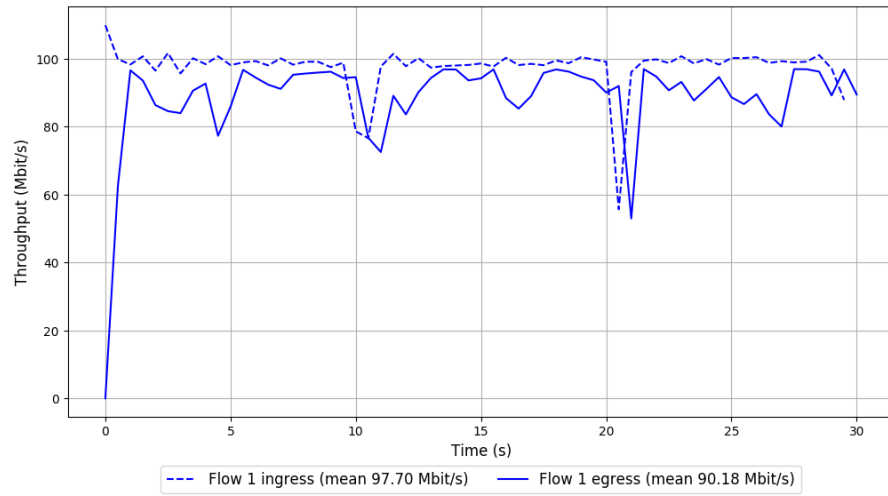


Run 8: Statistics of FillP-Sheep

Start at: 2018-08-27 23:05:31  
End at: 2018-08-27 23:06:01  
Local clock offset: 3.005 ms  
Remote clock offset: -3.002 ms

# Below is generated by plot.py at 2018-08-27 23:52:59  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 90.18 Mbit/s  
95th percentile per-packet one-way delay: 23.320 ms  
Loss rate: 7.67%  
-- Flow 1:  
Average throughput: 90.18 Mbit/s  
95th percentile per-packet one-way delay: 23.320 ms  
Loss rate: 7.67%

## Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-08-27 23:24:16

End at: 2018-08-27 23:24:46

Local clock offset: 0.65 ms

Remote clock offset: -3.317 ms

# Below is generated by plot.py at 2018-08-27 23:52:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.15 Mbit/s

95th percentile per-packet one-way delay: 25.201 ms

Loss rate: 10.87%

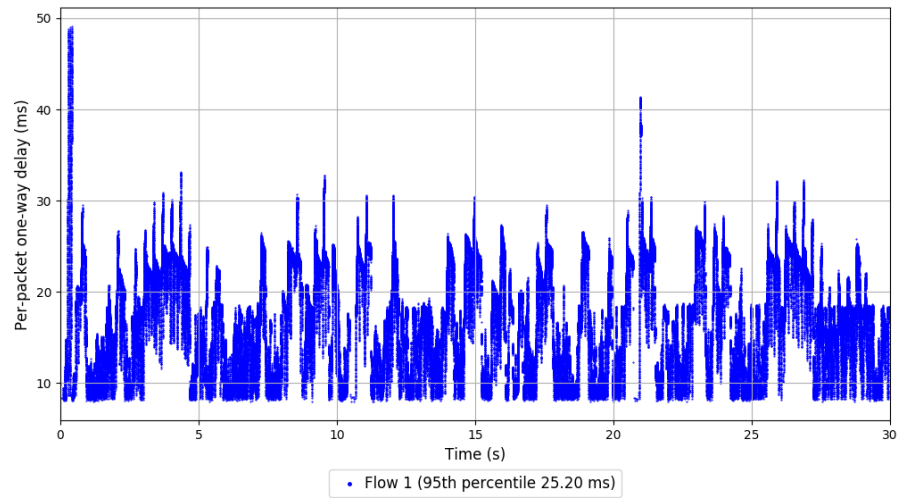
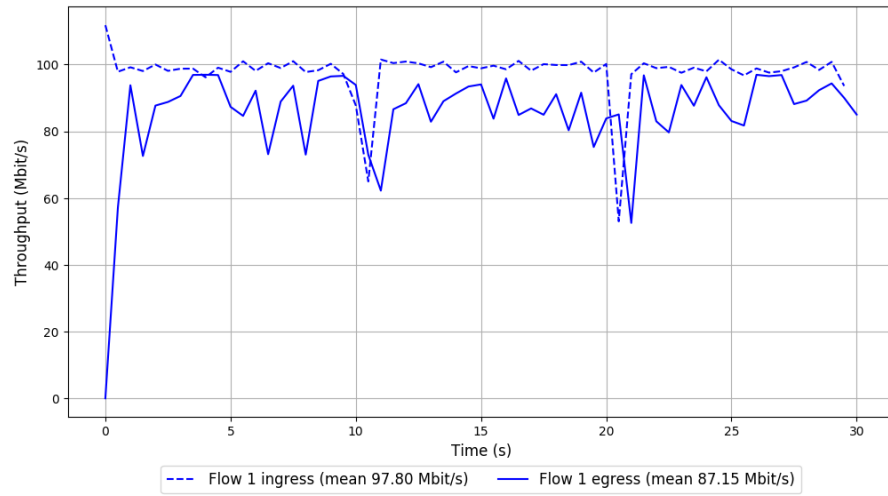
-- Flow 1:

Average throughput: 87.15 Mbit/s

95th percentile per-packet one-way delay: 25.201 ms

Loss rate: 10.87%

### Run 9: Report of FillP-Sheep — Data Link

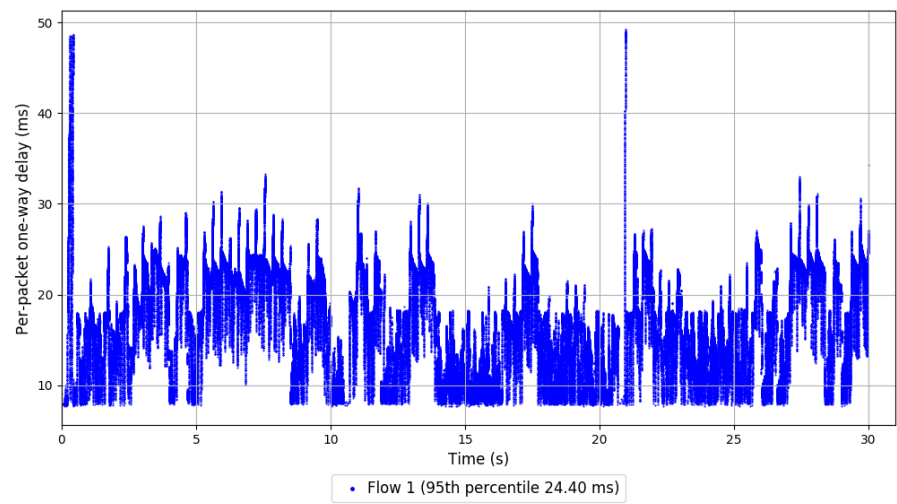
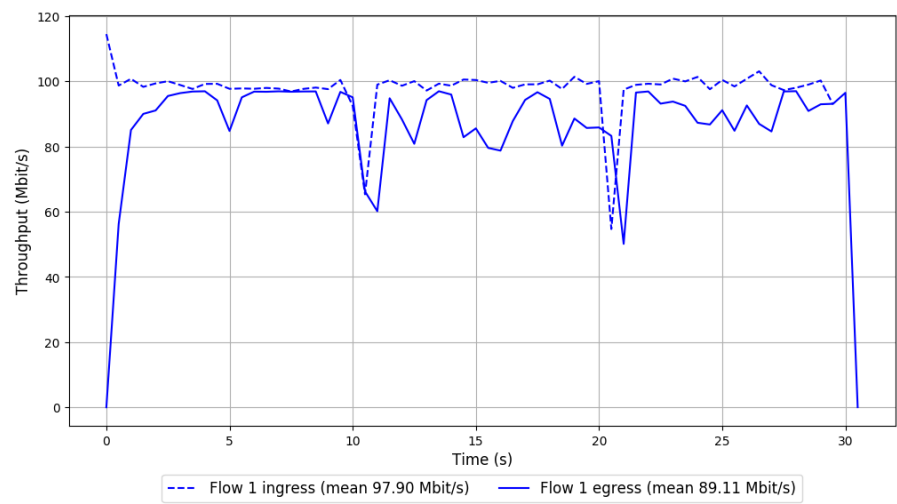


Run 10: Statistics of FillP-Sheep

Start at: 2018-08-27 23:43:03  
End at: 2018-08-27 23:43:34  
Local clock offset: 0.071 ms  
Remote clock offset: -3.107 ms

# Below is generated by plot.py at 2018-08-27 23:53:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 89.11 Mbit/s  
95th percentile per-packet one-way delay: 24.400 ms  
Loss rate: 8.90%  
-- Flow 1:  
Average throughput: 89.11 Mbit/s  
95th percentile per-packet one-way delay: 24.400 ms  
Loss rate: 8.90%

Run 10: Report of FillP-Sheep — Data Link

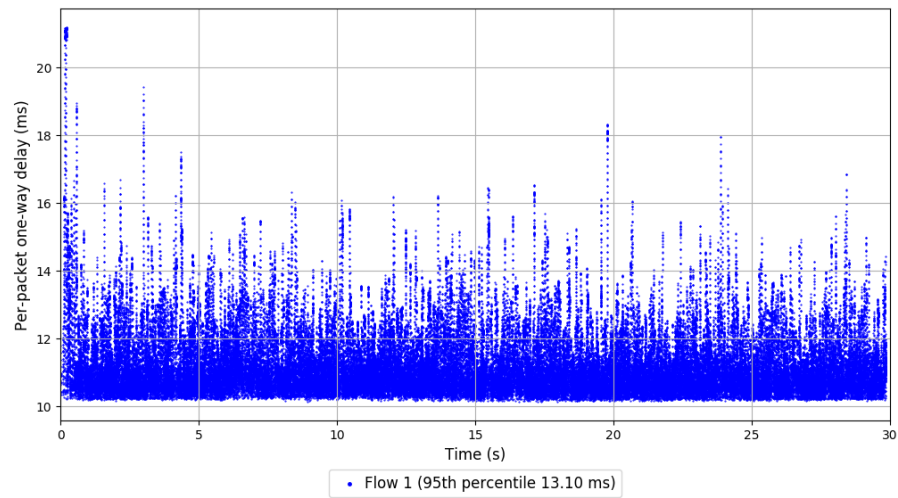
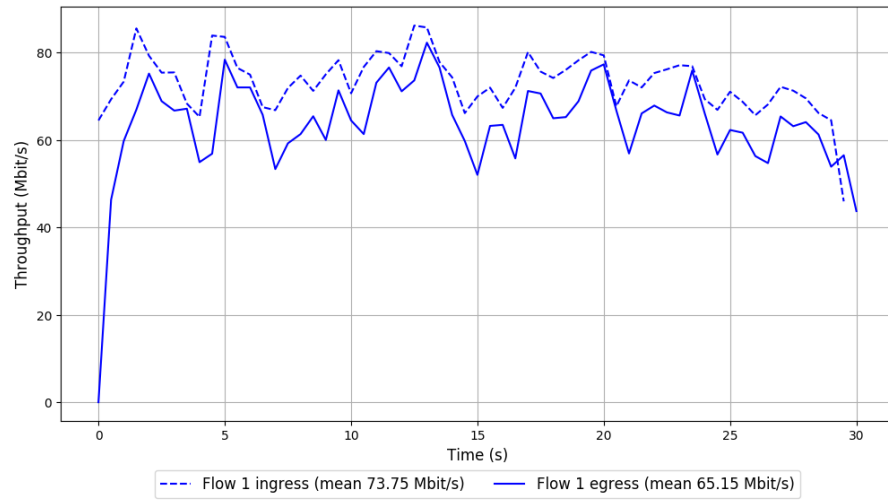


```
Run 1: Statistics of Indigo

Start at: 2018-08-27 20:49:49
End at: 2018-08-27 20:50:19
Local clock offset: -1.263 ms
Remote clock offset: -2.792 ms

# Below is generated by plot.py at 2018-08-27 23:53:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.15 Mbit/s
95th percentile per-packet one-way delay: 13.096 ms
Loss rate: 11.66%
-- Flow 1:
Average throughput: 65.15 Mbit/s
95th percentile per-packet one-way delay: 13.096 ms
Loss rate: 11.66%
```

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

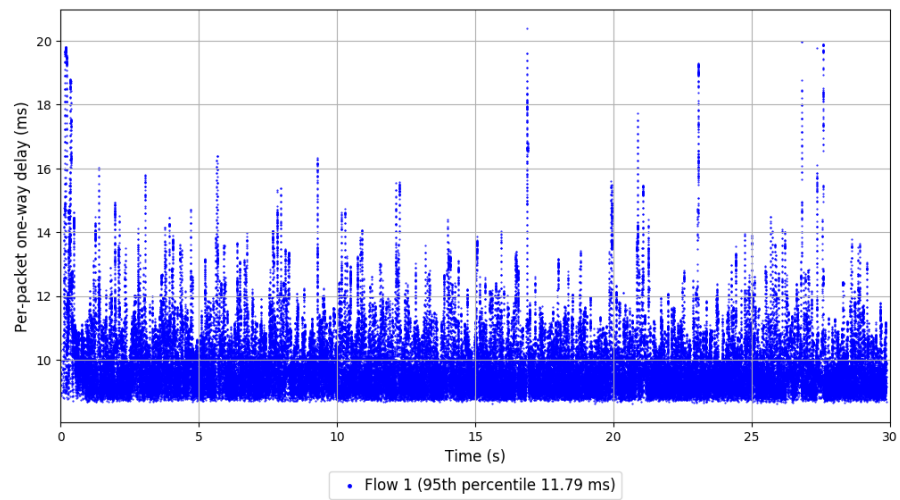
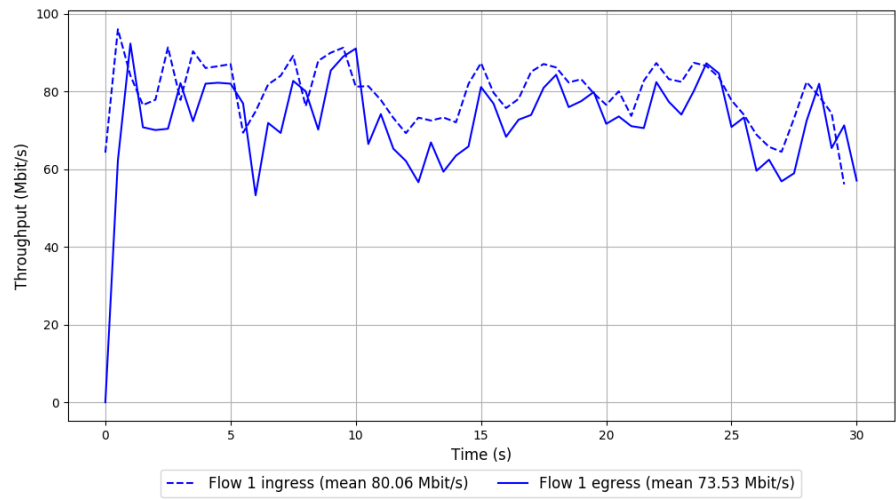


Run 2: Statistics of Indigo

Start at: 2018-08-27 21:08:32  
End at: 2018-08-27 21:09:02  
Local clock offset: 1.16 ms  
Remote clock offset: -3.478 ms

# Below is generated by plot.py at 2018-08-27 23:53:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 73.53 Mbit/s  
95th percentile per-packet one-way delay: 11.786 ms  
Loss rate: 8.17%  
-- Flow 1:  
Average throughput: 73.53 Mbit/s  
95th percentile per-packet one-way delay: 11.786 ms  
Loss rate: 8.17%

## Run 2: Report of Indigo — Data Link

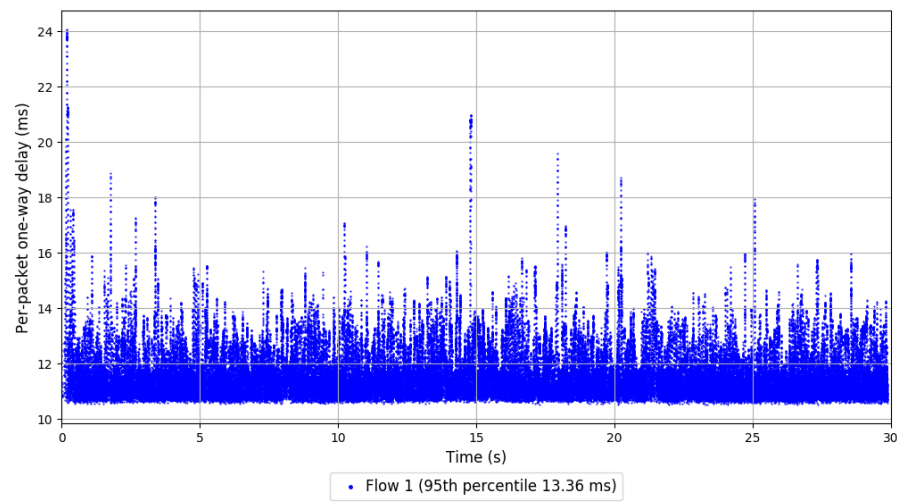
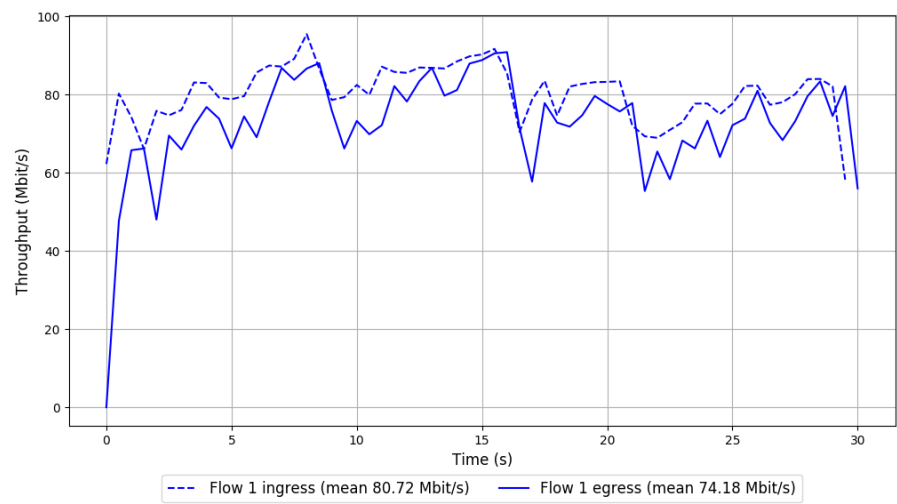


Run 3: Statistics of Indigo

Start at: 2018-08-27 21:27:13  
End at: 2018-08-27 21:27:43  
Local clock offset: -0.251 ms  
Remote clock offset: -3.428 ms

# Below is generated by plot.py at 2018-08-27 23:53:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 74.18 Mbit/s  
95th percentile per-packet one-way delay: 13.358 ms  
Loss rate: 8.11%  
-- Flow 1:  
Average throughput: 74.18 Mbit/s  
95th percentile per-packet one-way delay: 13.358 ms  
Loss rate: 8.11%

Run 3: Report of Indigo — Data Link

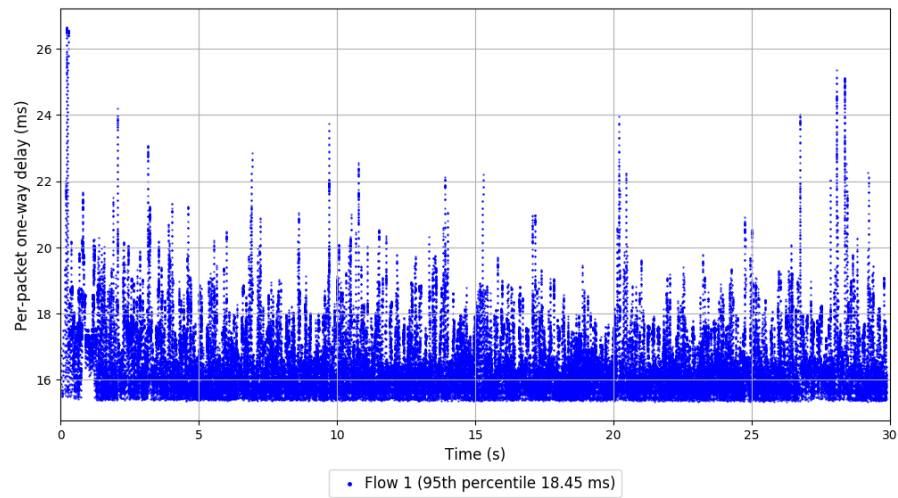
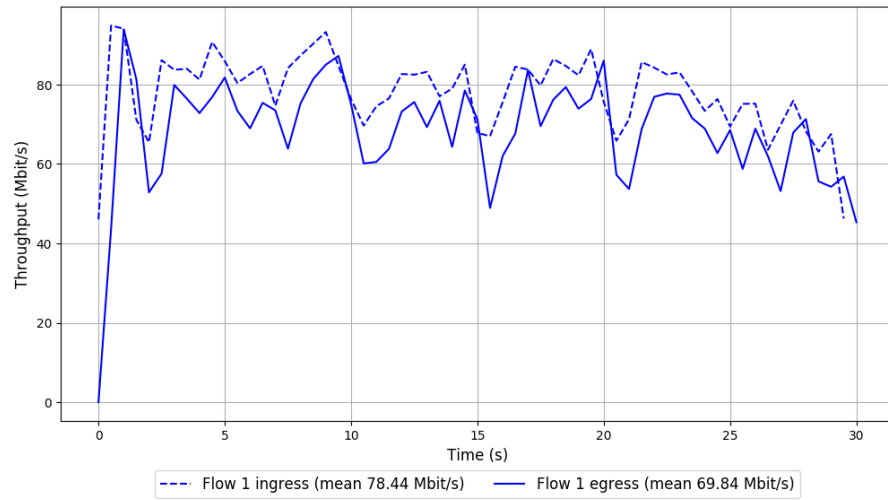


Run 4: Statistics of Indigo

Start at: 2018-08-27 21:45:58  
End at: 2018-08-27 21:46:28  
Local clock offset: 2.867 ms  
Remote clock offset: -2.748 ms

# Below is generated by plot.py at 2018-08-27 23:53:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 69.84 Mbit/s  
95th percentile per-packet one-way delay: 18.446 ms  
Loss rate: 10.95%  
-- Flow 1:  
Average throughput: 69.84 Mbit/s  
95th percentile per-packet one-way delay: 18.446 ms  
Loss rate: 10.95%

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

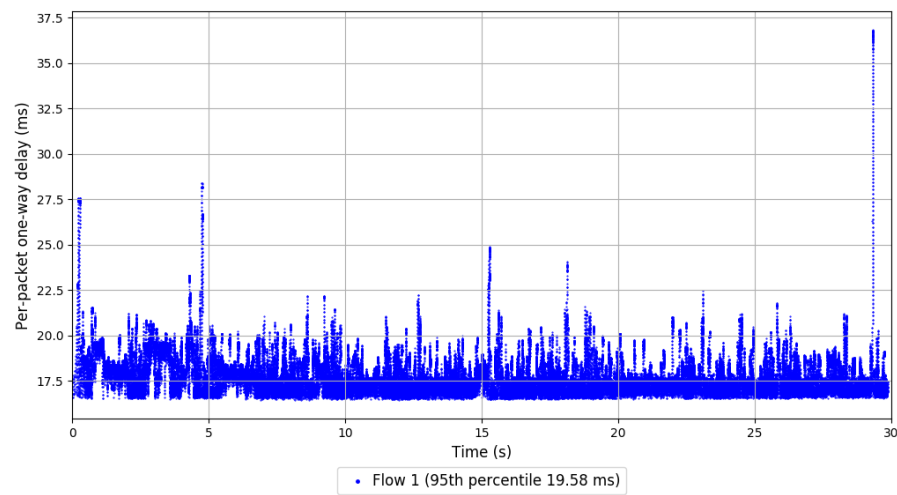
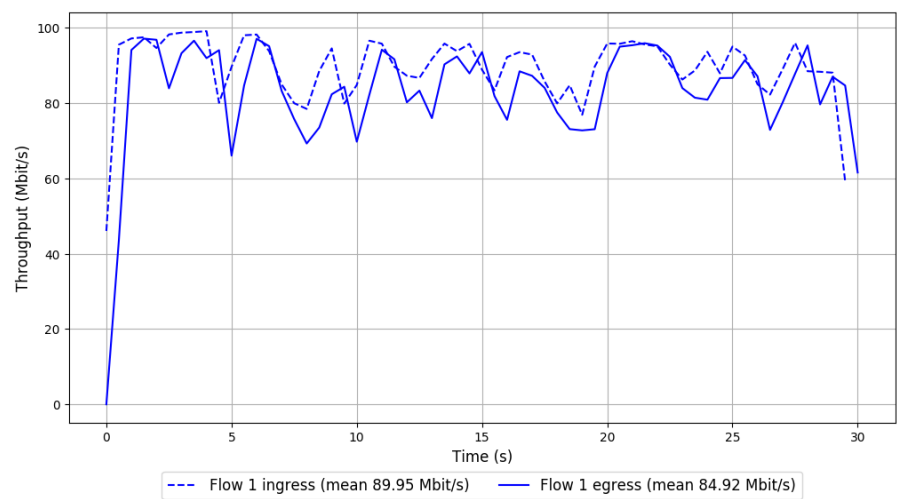


Run 5: Statistics of Indigo

Start at: 2018-08-27 22:04:50  
End at: 2018-08-27 22:05:20  
Local clock offset: 2.289 ms  
Remote clock offset: -2.083 ms

# Below is generated by plot.py at 2018-08-27 23:53:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 84.92 Mbit/s  
95th percentile per-packet one-way delay: 19.576 ms  
Loss rate: 5.59%  
-- Flow 1:  
Average throughput: 84.92 Mbit/s  
95th percentile per-packet one-way delay: 19.576 ms  
Loss rate: 5.59%

Run 5: Report of Indigo — Data Link

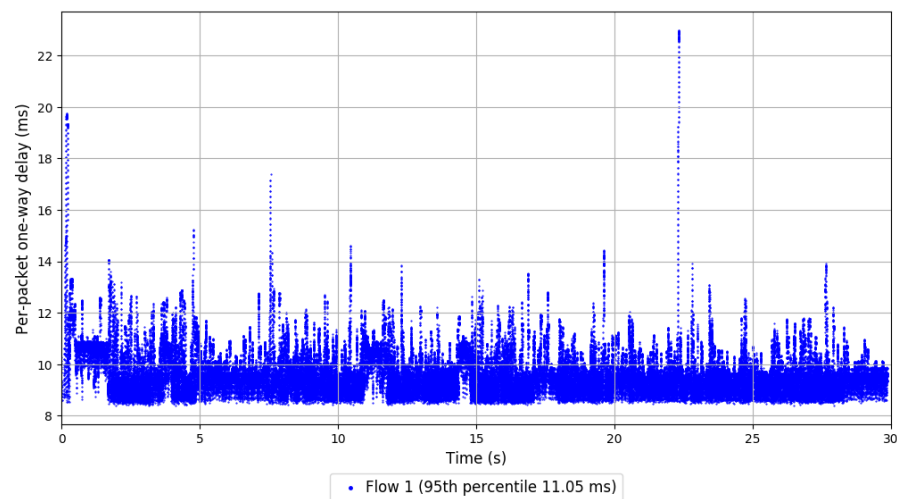
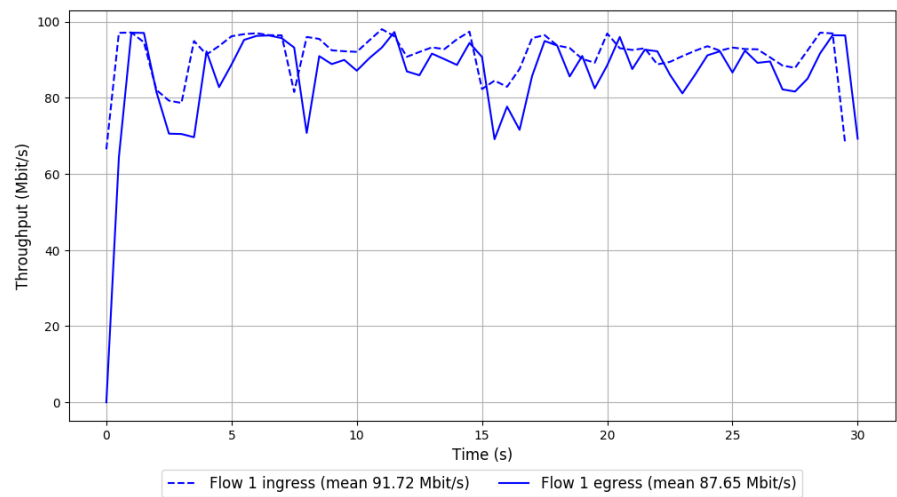


Run 6: Statistics of Indigo

Start at: 2018-08-27 22:23:39  
End at: 2018-08-27 22:24:09  
Local clock offset: 0.79 ms  
Remote clock offset: -3.368 ms

# Below is generated by plot.py at 2018-08-27 23:54:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 87.65 Mbit/s  
95th percentile per-packet one-way delay: 11.047 ms  
Loss rate: 4.44%  
-- Flow 1:  
Average throughput: 87.65 Mbit/s  
95th percentile per-packet one-way delay: 11.047 ms  
Loss rate: 4.44%

Run 6: Report of Indigo — Data Link

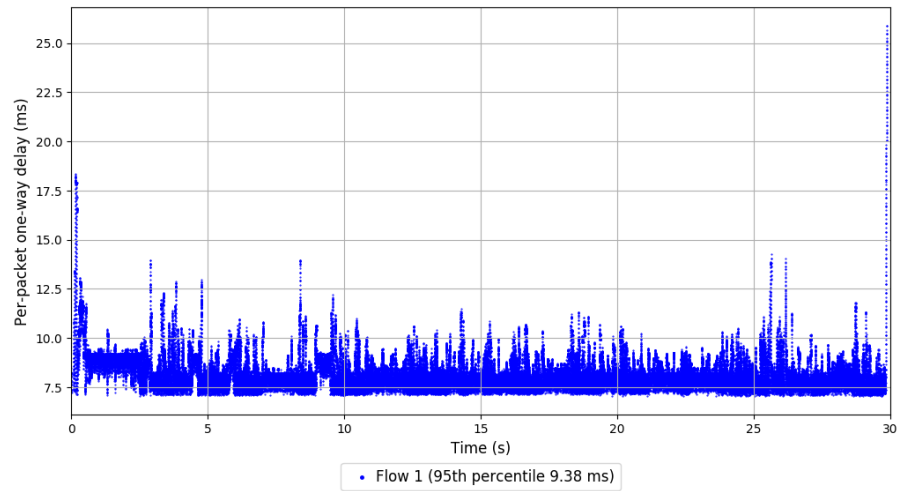
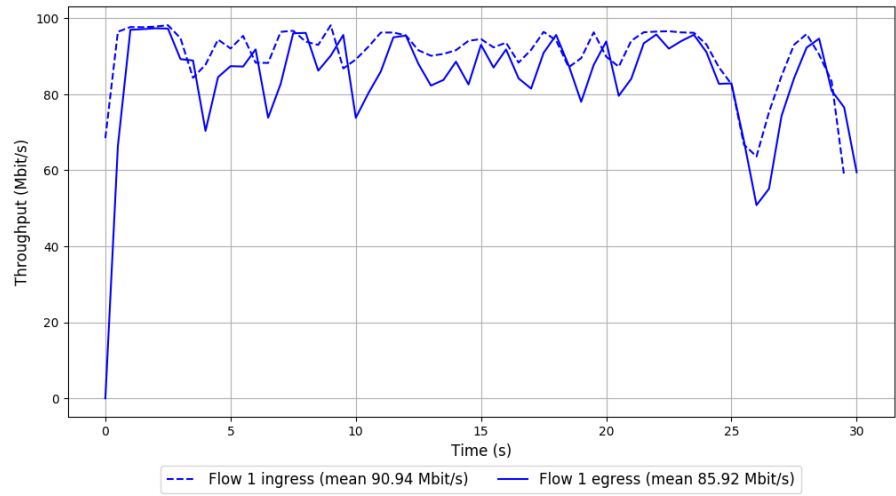


Run 7: Statistics of Indigo

Start at: 2018-08-27 22:42:23  
End at: 2018-08-27 22:42:53  
Local clock offset: 2.046 ms  
Remote clock offset: -2.466 ms

# Below is generated by plot.py at 2018-08-27 23:54:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 85.92 Mbit/s  
95th percentile per-packet one-way delay: 9.385 ms  
Loss rate: 5.46%  
-- Flow 1:  
Average throughput: 85.92 Mbit/s  
95th percentile per-packet one-way delay: 9.385 ms  
Loss rate: 5.46%

## Run 7: Report of Indigo — Data Link

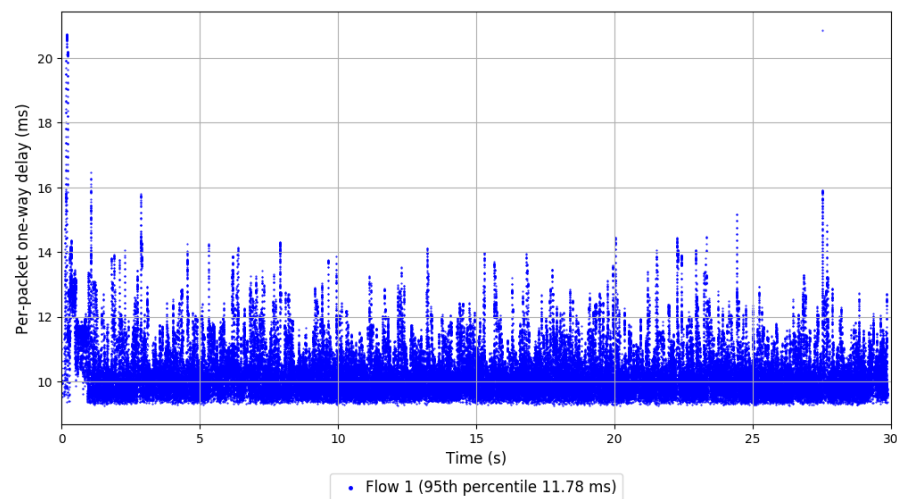
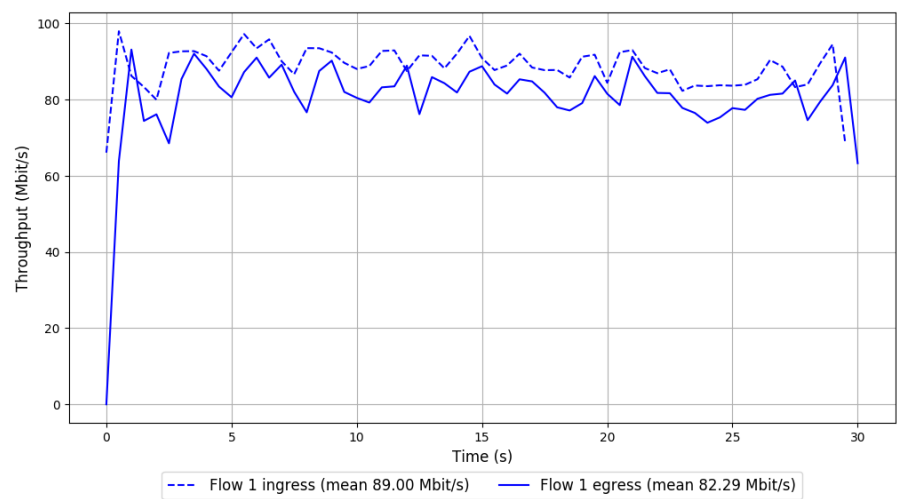


Run 8: Statistics of Indigo

Start at: 2018-08-27 23:01:07  
End at: 2018-08-27 23:01:37  
Local clock offset: 0.266 ms  
Remote clock offset: -2.947 ms

# Below is generated by plot.py at 2018-08-27 23:54:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 82.29 Mbit/s  
95th percentile per-packet one-way delay: 11.780 ms  
Loss rate: 7.55%  
-- Flow 1:  
Average throughput: 82.29 Mbit/s  
95th percentile per-packet one-way delay: 11.780 ms  
Loss rate: 7.55%

Run 8: Report of Indigo — Data Link

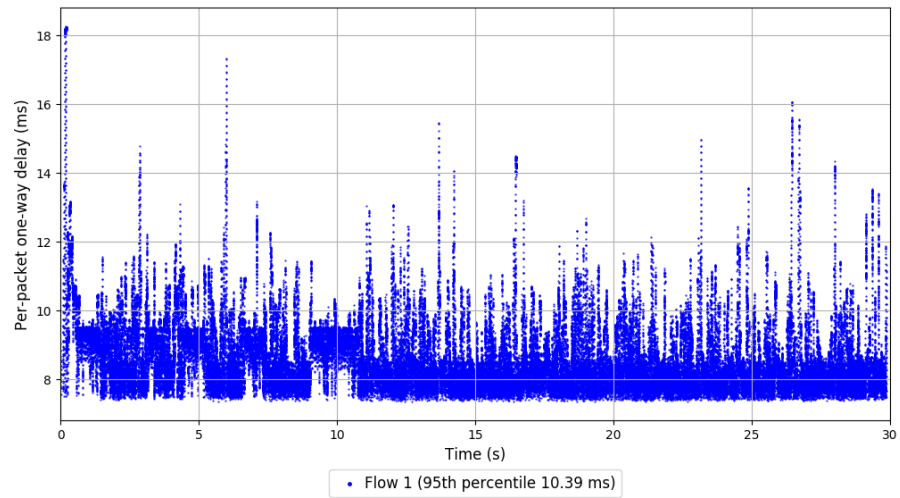
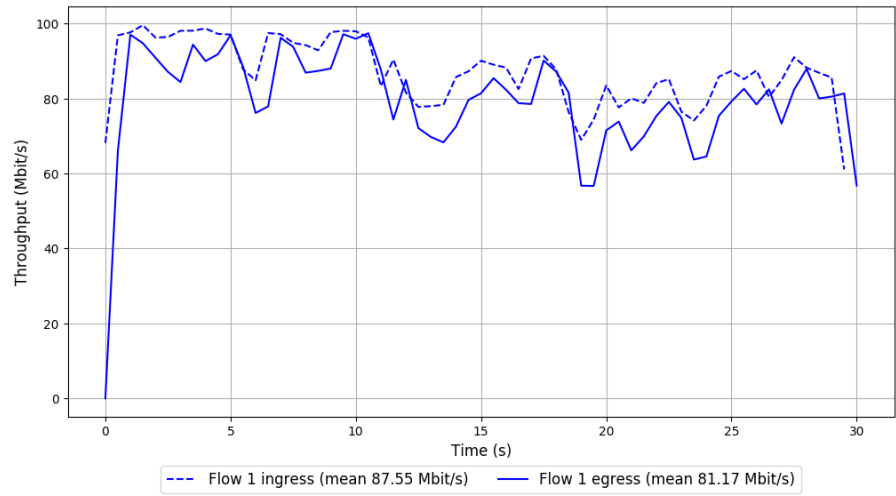


Run 9: Statistics of Indigo

Start at: 2018-08-27 23:19:49  
End at: 2018-08-27 23:20:19  
Local clock offset: 1.071 ms  
Remote clock offset: -2.788 ms

# Below is generated by plot.py at 2018-08-27 23:54:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 81.17 Mbit/s  
95th percentile per-packet one-way delay: 10.391 ms  
Loss rate: 7.29%  
-- Flow 1:  
Average throughput: 81.17 Mbit/s  
95th percentile per-packet one-way delay: 10.391 ms  
Loss rate: 7.29%

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



Run 10: Statistics of Indigo

Start at: 2018-08-27 23:38:38

End at: 2018-08-27 23:39:08

Local clock offset: 0.984 ms

Remote clock offset: -2.581 ms

# Below is generated by plot.py at 2018-08-27 23:54:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.28 Mbit/s

95th percentile per-packet one-way delay: 11.174 ms

Loss rate: 5.18%

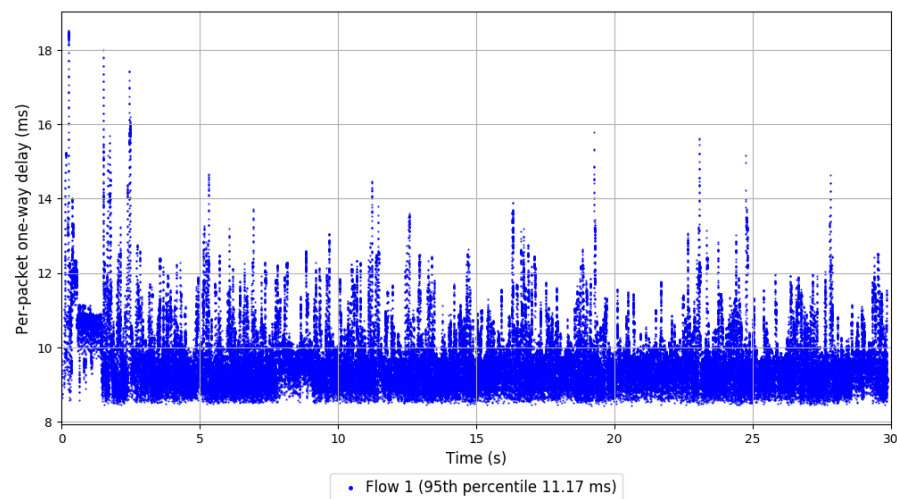
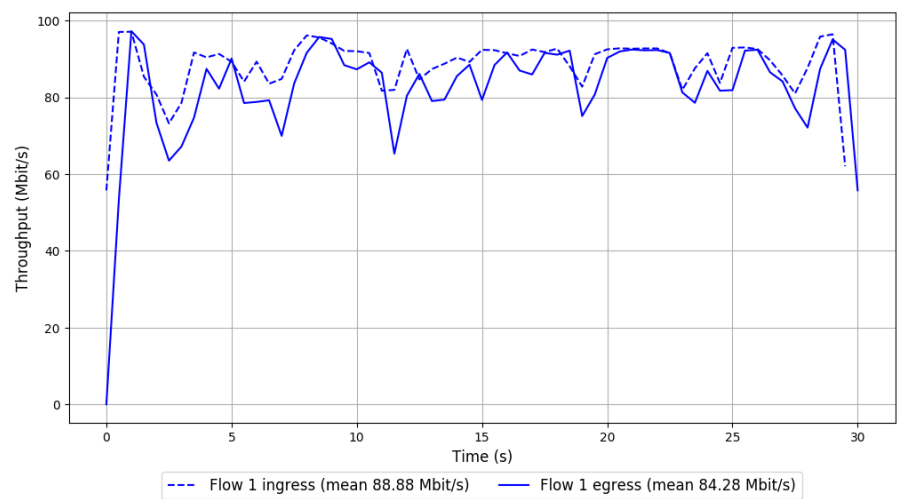
-- Flow 1:

Average throughput: 84.28 Mbit/s

95th percentile per-packet one-way delay: 11.174 ms

Loss rate: 5.18%

Run 10: Report of Indigo — Data Link

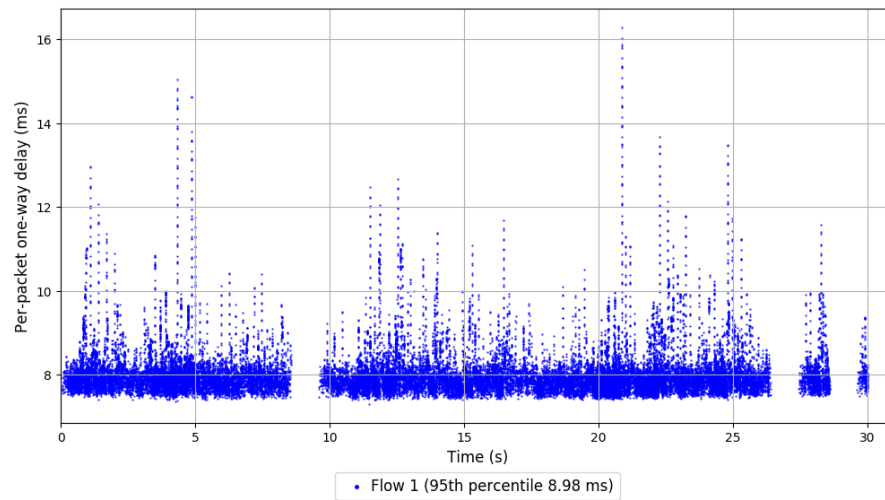
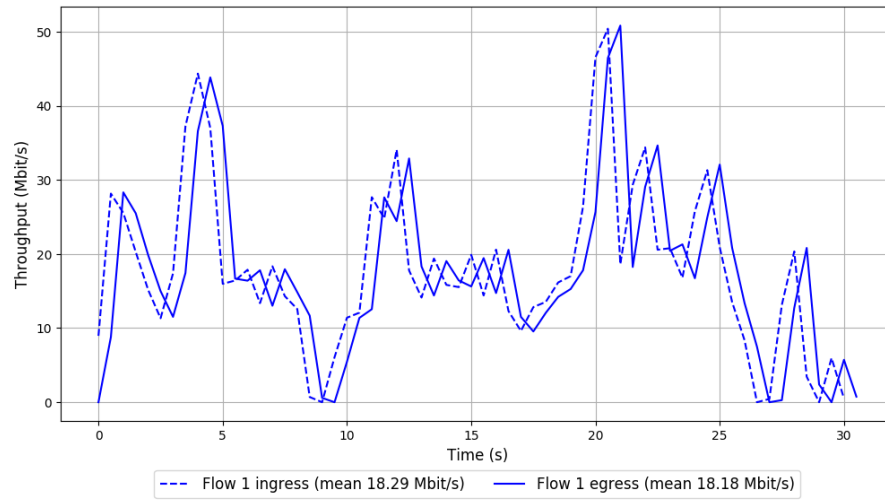


Run 1: Statistics of LEDBAT

Start at: 2018-08-27 20:53:10  
End at: 2018-08-27 20:53:40  
Local clock offset: 1.181 ms  
Remote clock offset: -3.224 ms

# Below is generated by plot.py at 2018-08-27 23:54:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 18.18 Mbit/s  
95th percentile per-packet one-way delay: 8.979 ms  
Loss rate: 0.59%  
-- Flow 1:  
Average throughput: 18.18 Mbit/s  
95th percentile per-packet one-way delay: 8.979 ms  
Loss rate: 0.59%

# Run 1: Report of LEDBAT — Data Link

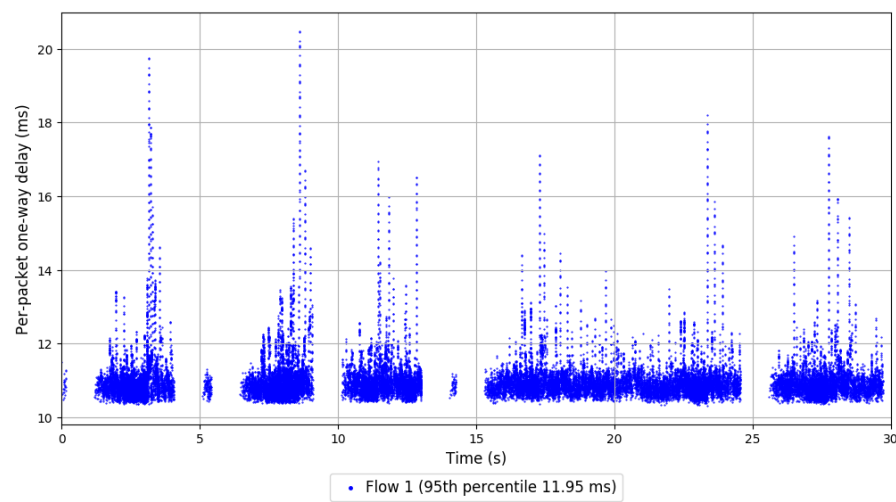
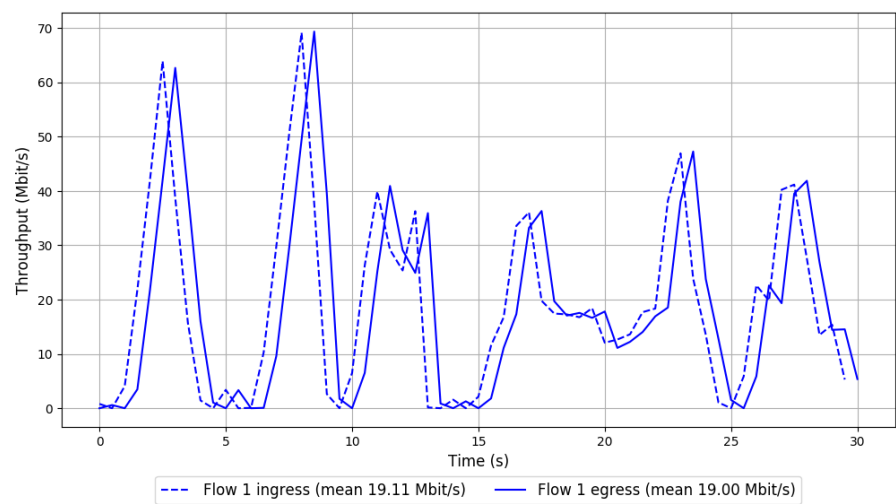


Run 2: Statistics of LEDBAT

Start at: 2018-08-27 21:11:51  
End at: 2018-08-27 21:12:21  
Local clock offset: -1.108 ms  
Remote clock offset: -3.201 ms

# Below is generated by plot.py at 2018-08-27 23:54:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 19.00 Mbit/s  
95th percentile per-packet one-way delay: 11.948 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 19.00 Mbit/s  
95th percentile per-packet one-way delay: 11.948 ms  
Loss rate: 0.58%

Run 2: Report of LEDBAT — Data Link

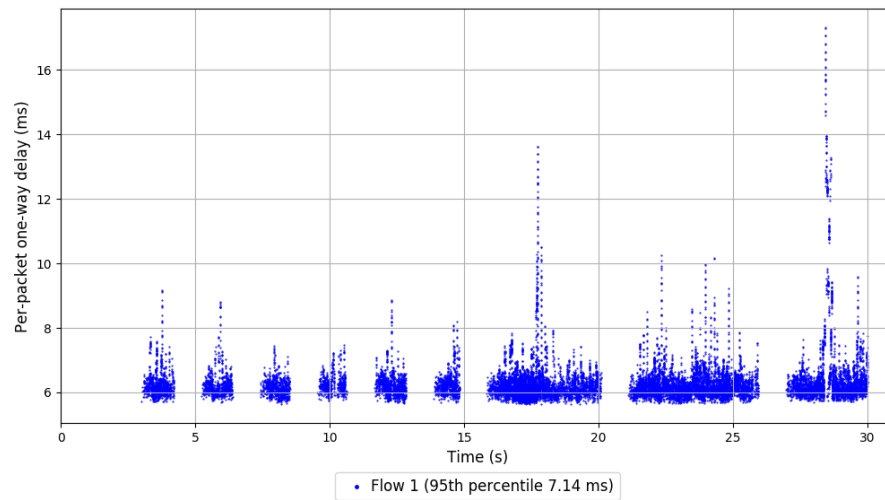
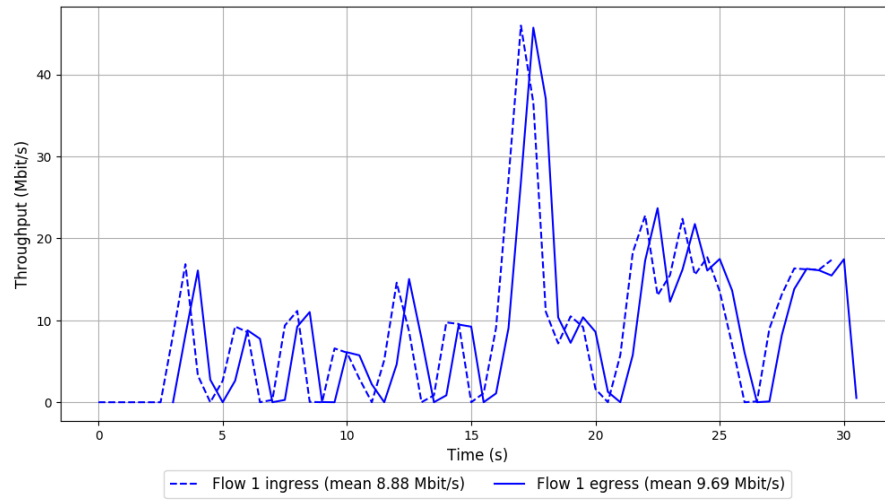


Run 3: Statistics of LEDBAT

Start at: 2018-08-27 21:30:32  
End at: 2018-08-27 21:31:02  
Local clock offset: 5.307 ms  
Remote clock offset: -2.829 ms

# Below is generated by plot.py at 2018-08-27 23:54:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 9.69 Mbit/s  
95th percentile per-packet one-way delay: 7.136 ms  
Loss rate: 1.78%  
-- Flow 1:  
Average throughput: 9.69 Mbit/s  
95th percentile per-packet one-way delay: 7.136 ms  
Loss rate: 1.78%

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

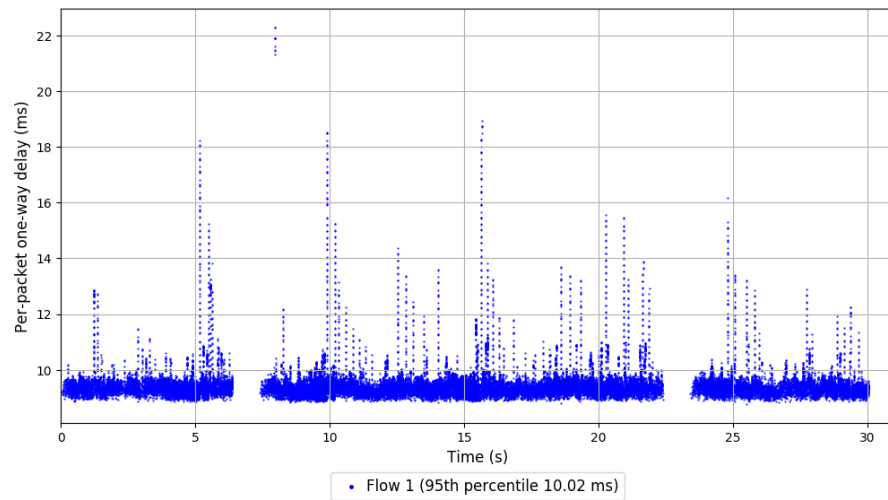
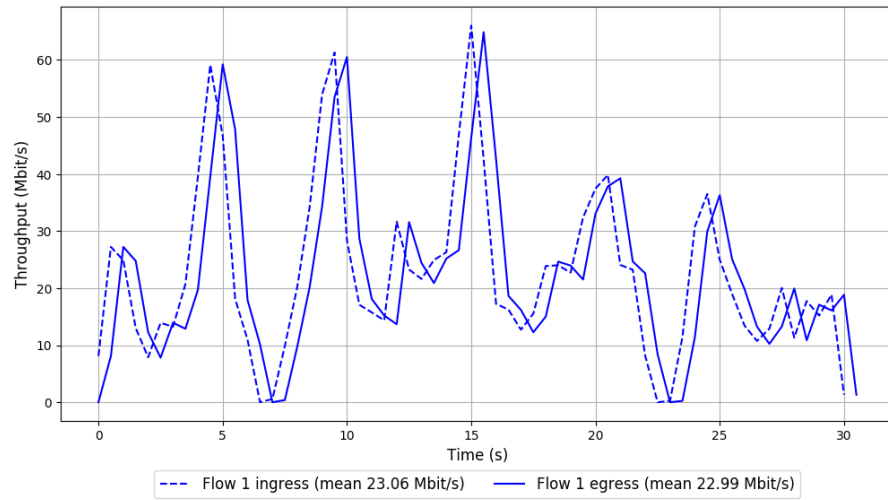


Run 4: Statistics of LEDBAT

Start at: 2018-08-27 21:49:18  
End at: 2018-08-27 21:49:48  
Local clock offset: 0.185 ms  
Remote clock offset: -2.635 ms

# Below is generated by plot.py at 2018-08-27 23:54:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 22.99 Mbit/s  
95th percentile per-packet one-way delay: 10.019 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 22.99 Mbit/s  
95th percentile per-packet one-way delay: 10.019 ms  
Loss rate: 0.31%

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

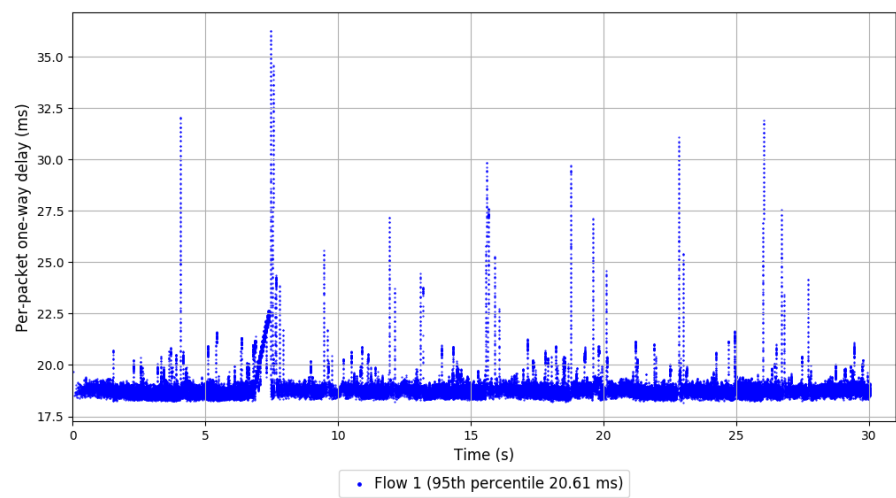
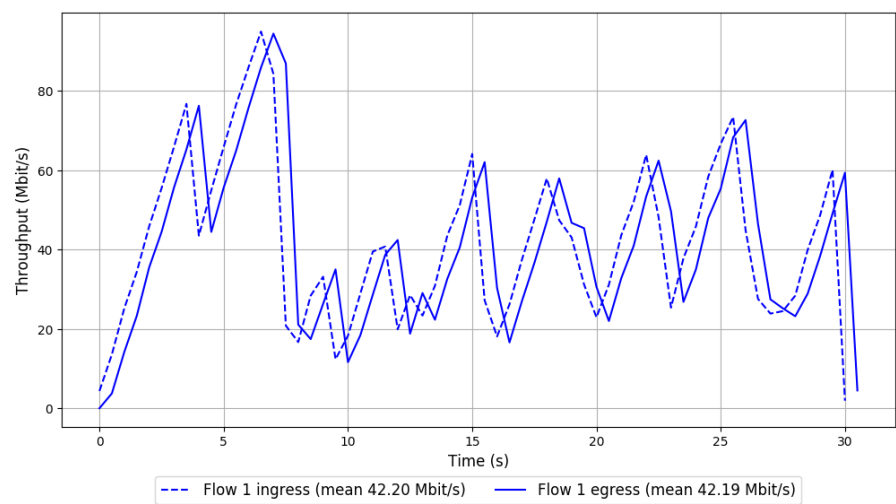


Run 5: Statistics of LEDBAT

Start at: 2018-08-27 22:08:10  
End at: 2018-08-27 22:08:40  
Local clock offset: 0.014 ms  
Remote clock offset: -2.875 ms

# Below is generated by plot.py at 2018-08-27 23:54:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 42.19 Mbit/s  
95th percentile per-packet one-way delay: 20.614 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 42.19 Mbit/s  
95th percentile per-packet one-way delay: 20.614 ms  
Loss rate: 0.03%

Run 5: Report of LEDBAT — Data Link

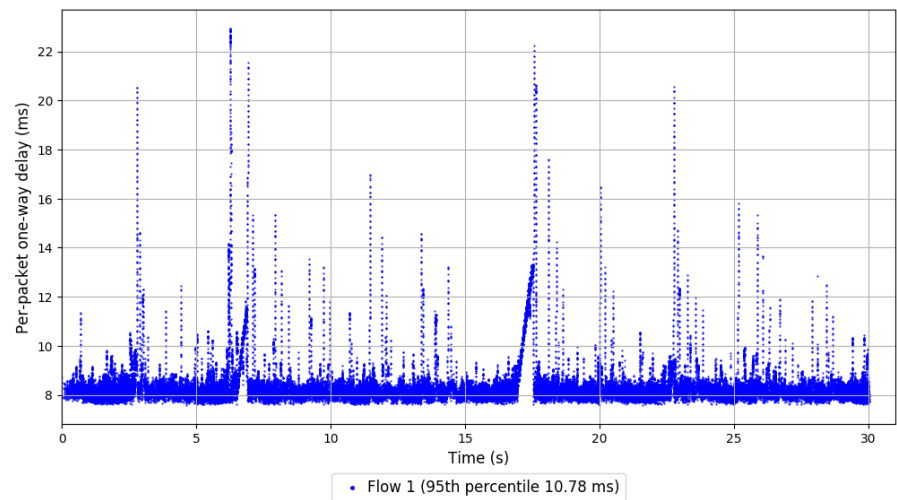
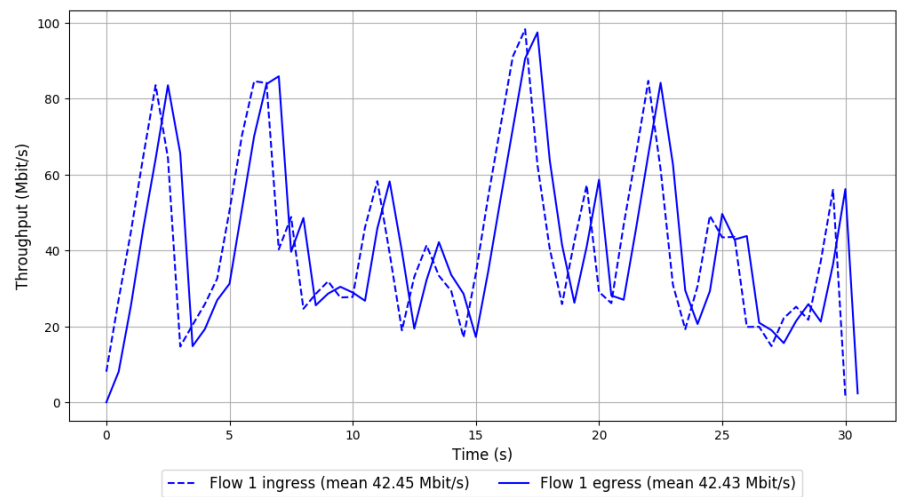


Run 6: Statistics of LEDBAT

Start at: 2018-08-27 22:26:58  
End at: 2018-08-27 22:27:28  
Local clock offset: 2.477 ms  
Remote clock offset: -2.543 ms

# Below is generated by plot.py at 2018-08-27 23:54:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 42.43 Mbit/s  
95th percentile per-packet one-way delay: 10.776 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 42.43 Mbit/s  
95th percentile per-packet one-way delay: 10.776 ms  
Loss rate: 0.06%

Run 6: Report of LEDBAT — Data Link

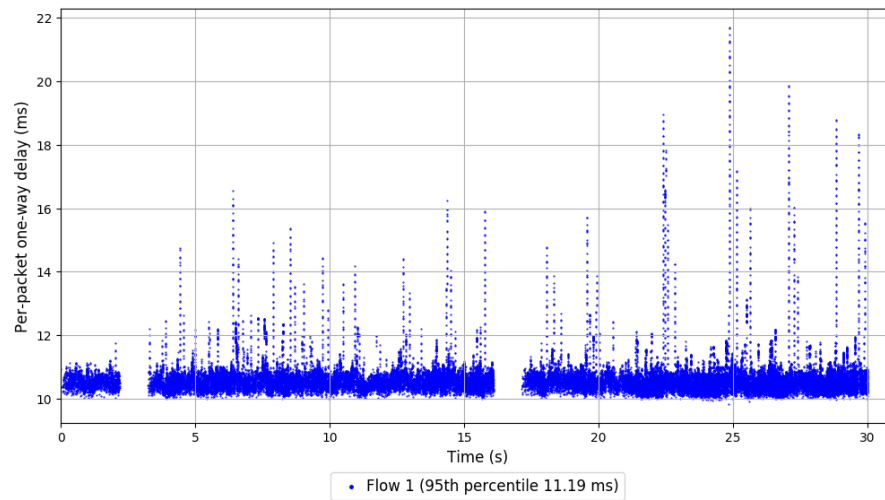
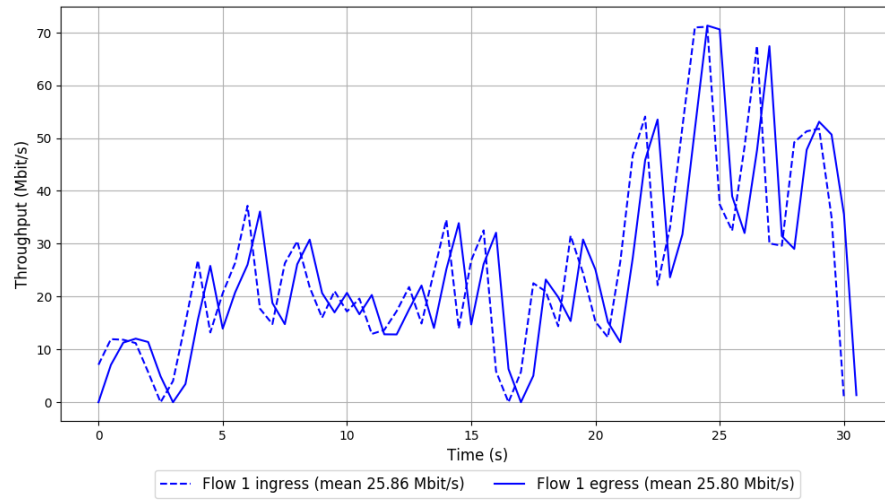


Run 7: Statistics of LEDBAT

Start at: 2018-08-27 22:45:43  
End at: 2018-08-27 22:46:13  
Local clock offset: -0.249 ms  
Remote clock offset: -2.744 ms

# Below is generated by plot.py at 2018-08-27 23:54:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 25.80 Mbit/s  
95th percentile per-packet one-way delay: 11.191 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 25.80 Mbit/s  
95th percentile per-packet one-way delay: 11.191 ms  
Loss rate: 0.23%

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

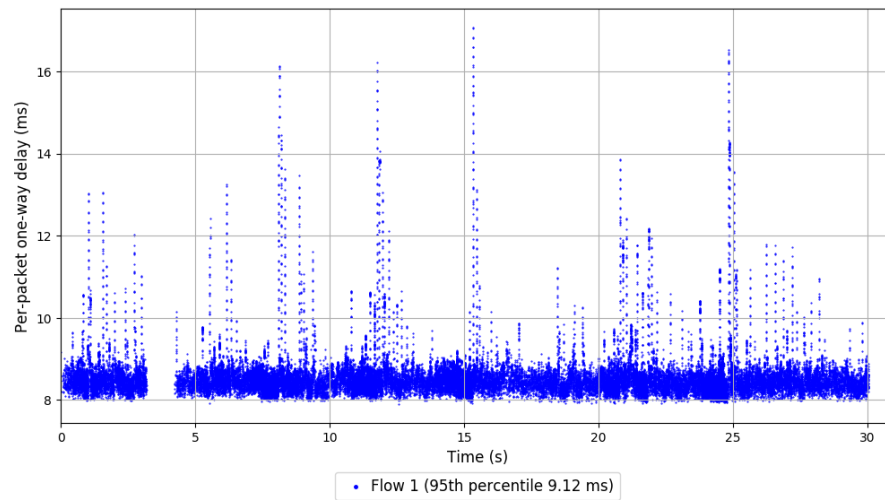
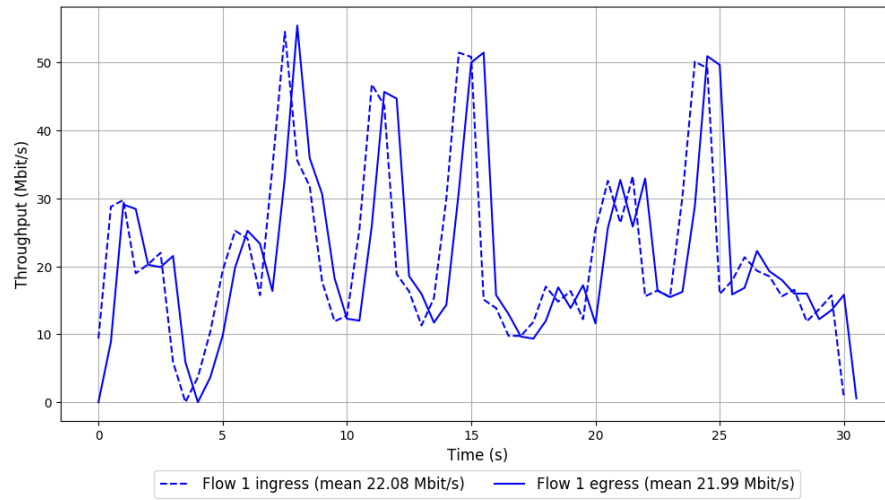


Run 8: Statistics of LEDBAT

Start at: 2018-08-27 23:04:25  
End at: 2018-08-27 23:04:56  
Local clock offset: 0.577 ms  
Remote clock offset: -2.924 ms

# Below is generated by plot.py at 2018-08-27 23:54:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 21.99 Mbit/s  
95th percentile per-packet one-way delay: 9.124 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 21.99 Mbit/s  
95th percentile per-packet one-way delay: 9.124 ms  
Loss rate: 0.39%

# Run 8: Report of LEDBAT — Data Link

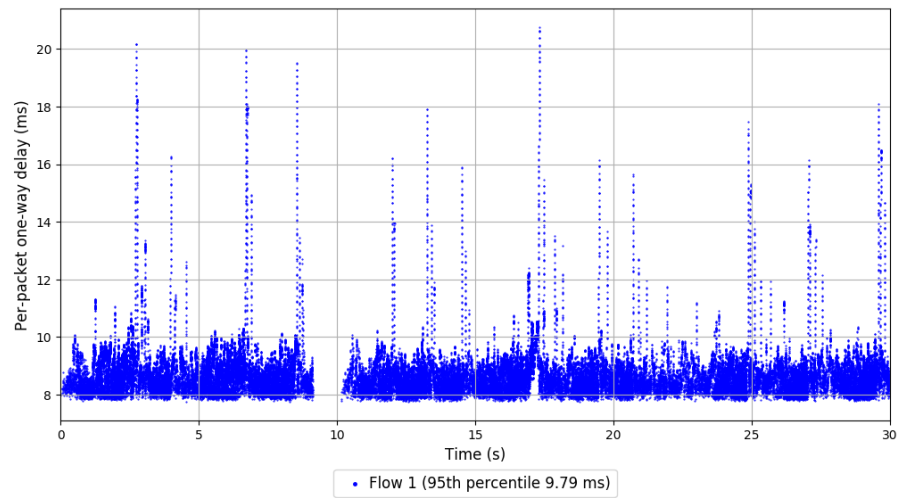
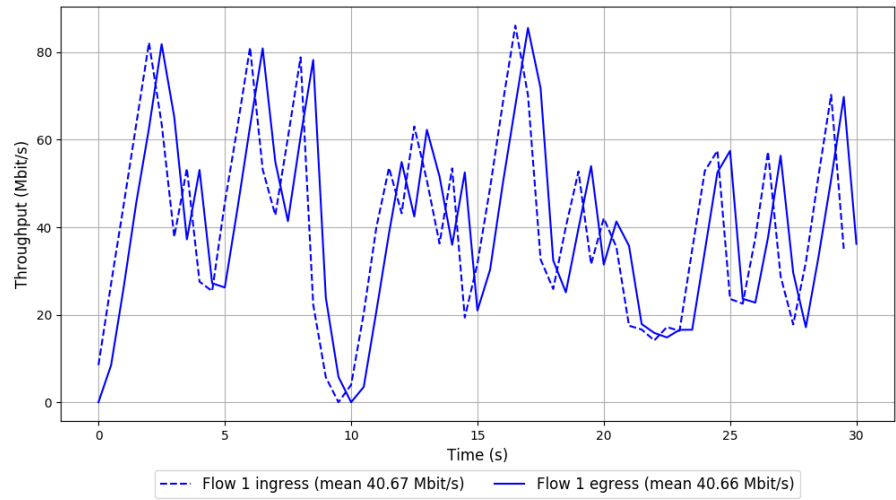


Run 9: Statistics of LEDBAT

Start at: 2018-08-27 23:23:10  
End at: 2018-08-27 23:23:40  
Local clock offset: 1.065 ms  
Remote clock offset: -3.255 ms

# Below is generated by plot.py at 2018-08-27 23:54:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 40.66 Mbit/s  
95th percentile per-packet one-way delay: 9.785 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 40.66 Mbit/s  
95th percentile per-packet one-way delay: 9.785 ms  
Loss rate: 0.07%

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



Run 10: Statistics of LEDBAT

Start at: 2018-08-27 23:41:58

End at: 2018-08-27 23:42:28

Local clock offset: 1.686 ms

Remote clock offset: -3.426 ms

# Below is generated by plot.py at 2018-08-27 23:54:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 19.47 Mbit/s

95th percentile per-packet one-way delay: 8.297 ms

Loss rate: 0.43%

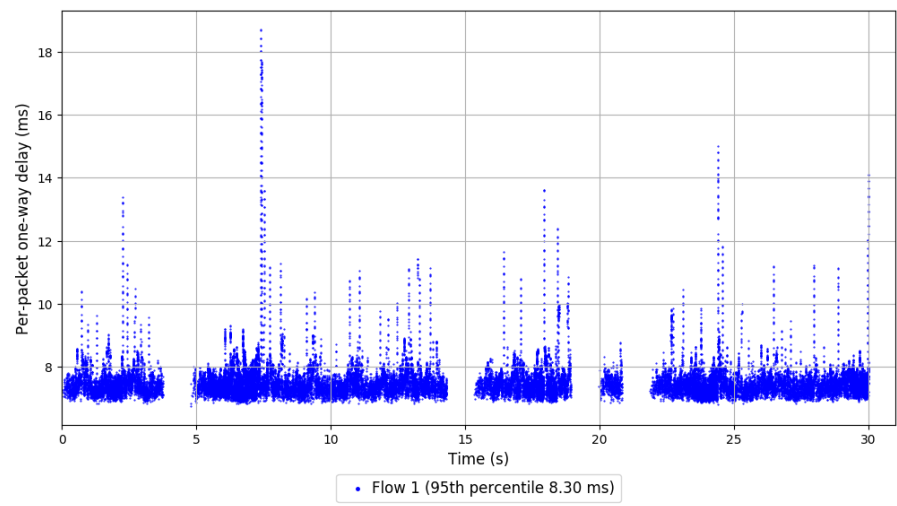
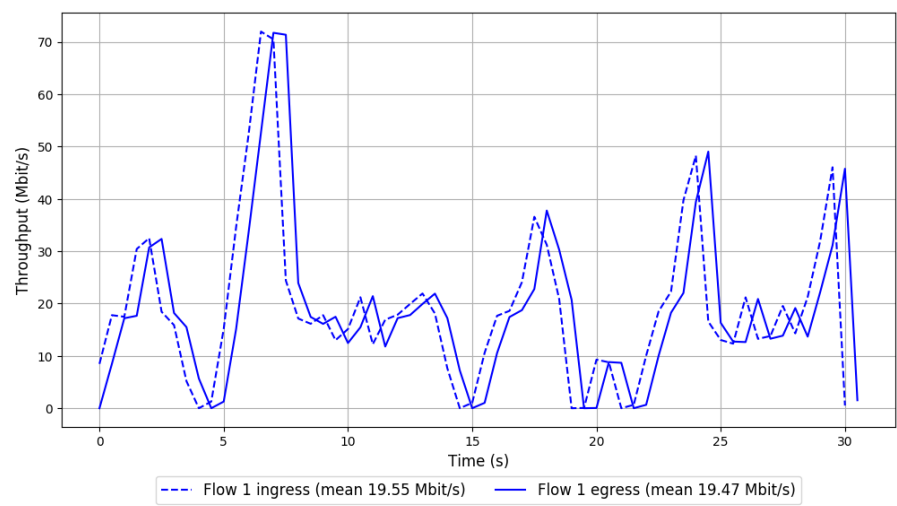
-- Flow 1:

Average throughput: 19.47 Mbit/s

95th percentile per-packet one-way delay: 8.297 ms

Loss rate: 0.43%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-08-27 20:50:59

End at: 2018-08-27 20:51:29

Local clock offset: 2.439 ms

Remote clock offset: -1.918 ms

# Below is generated by plot.py at 2018-08-27 23:55:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 77.38 Mbit/s

95th percentile per-packet one-way delay: 17.677 ms

Loss rate: 11.95%

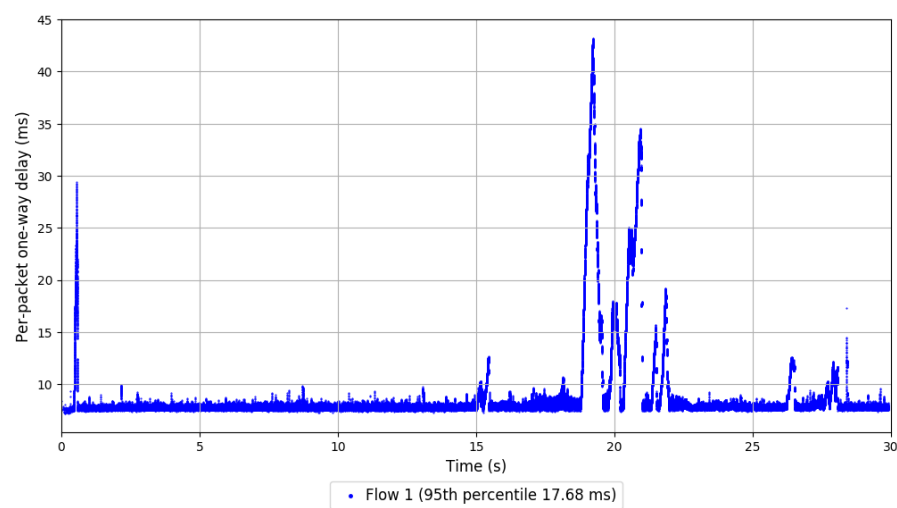
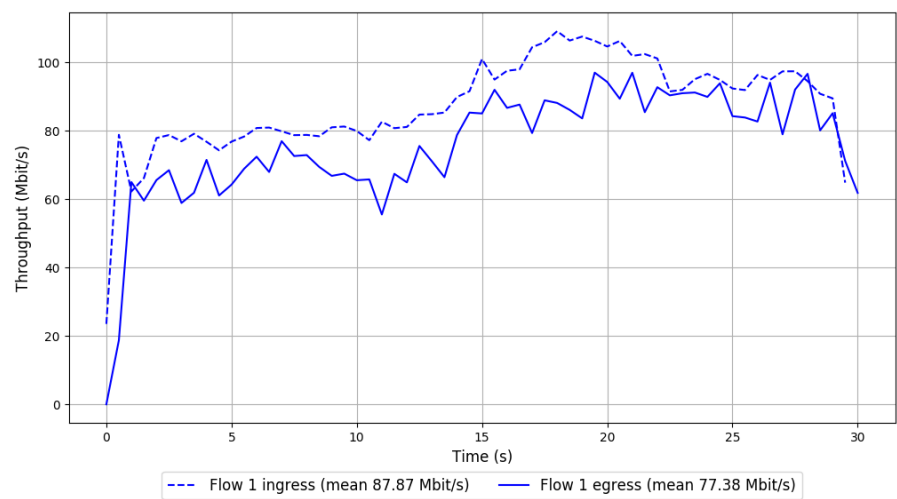
-- Flow 1:

Average throughput: 77.38 Mbit/s

95th percentile per-packet one-way delay: 17.677 ms

Loss rate: 11.95%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-08-27 21:09:41

End at: 2018-08-27 21:10:11

Local clock offset: 1.846 ms

Remote clock offset: -3.458 ms

# Below is generated by plot.py at 2018-08-27 23:55:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 72.06 Mbit/s

95th percentile per-packet one-way delay: 7.743 ms

Loss rate: 8.07%

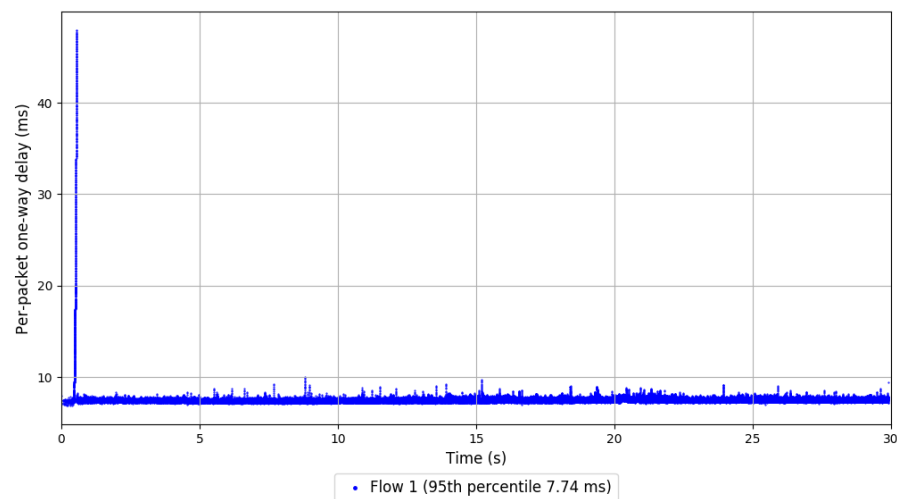
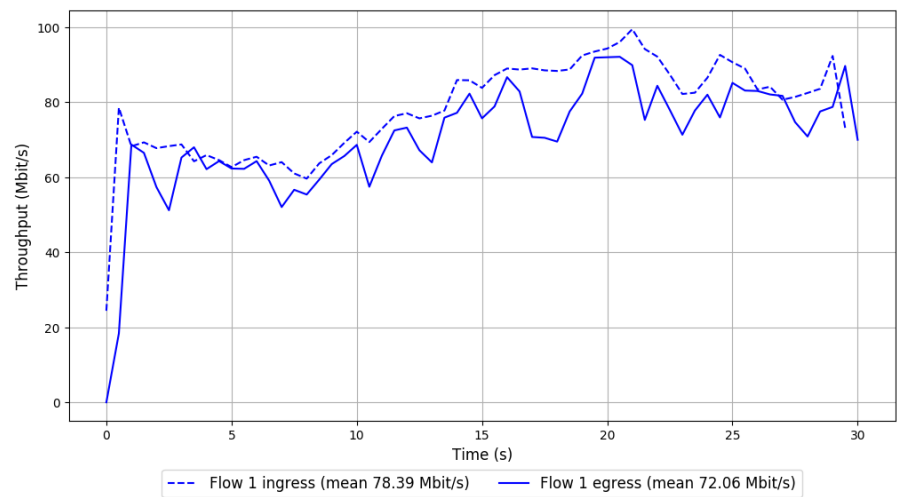
-- Flow 1:

Average throughput: 72.06 Mbit/s

95th percentile per-packet one-way delay: 7.743 ms

Loss rate: 8.07%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-08-27 21:28:22

End at: 2018-08-27 21:28:52

Local clock offset: 4.382 ms

Remote clock offset: -3.227 ms

# Below is generated by plot.py at 2018-08-27 23:55:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 52.55 Mbit/s

95th percentile per-packet one-way delay: 5.795 ms

Loss rate: 9.98%

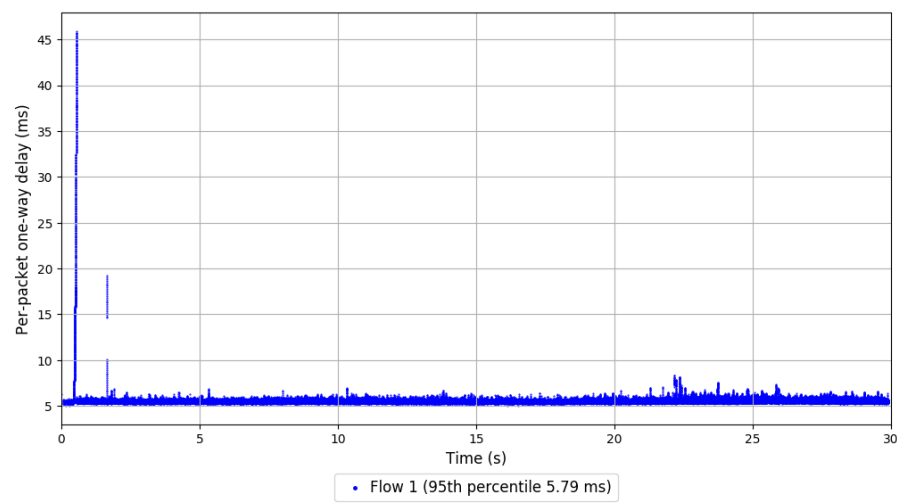
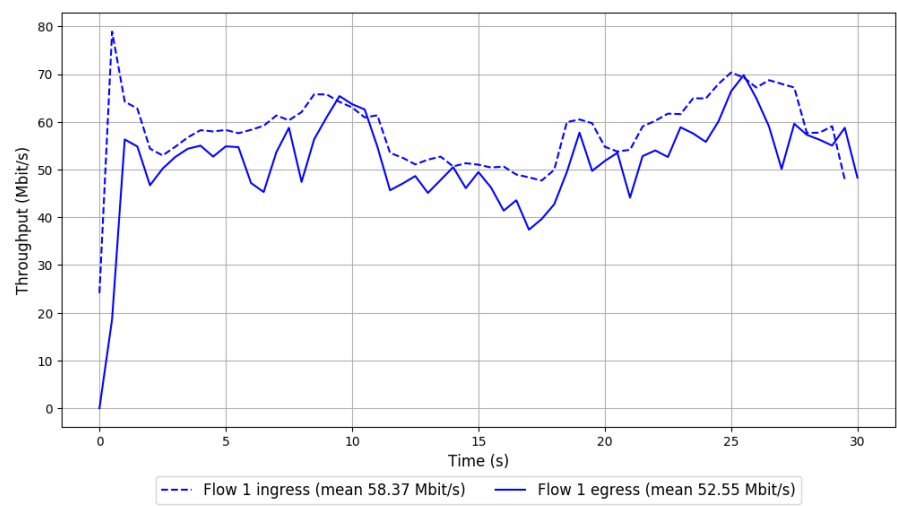
-- Flow 1:

Average throughput: 52.55 Mbit/s

95th percentile per-packet one-way delay: 5.795 ms

Loss rate: 9.98%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-08-27 21:47:07

End at: 2018-08-27 21:47:37

Local clock offset: 2.458 ms

Remote clock offset: -2.287 ms

# Below is generated by plot.py at 2018-08-27 23:55:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 70.19 Mbit/s

95th percentile per-packet one-way delay: 16.785 ms

Loss rate: 7.18%

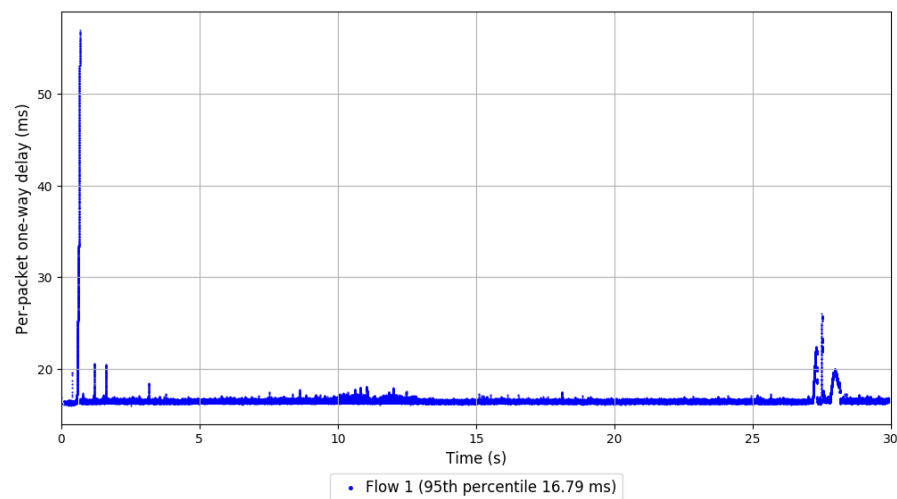
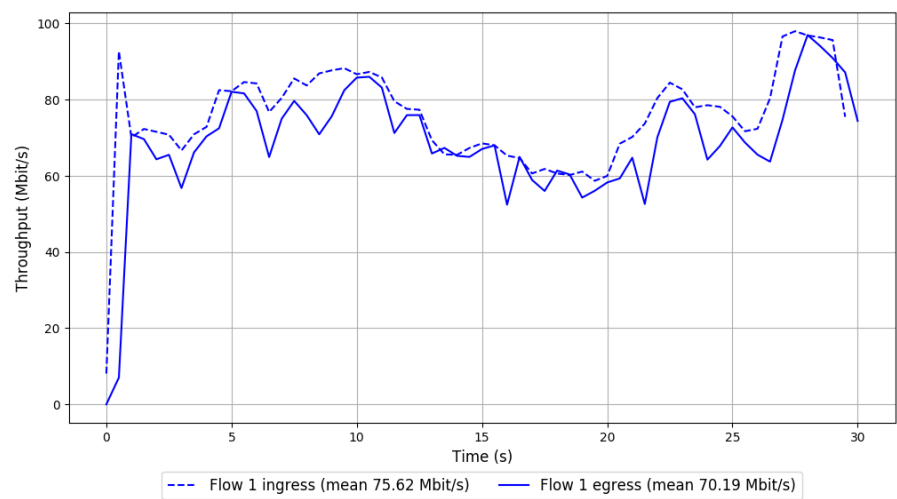
-- Flow 1:

Average throughput: 70.19 Mbit/s

95th percentile per-packet one-way delay: 16.785 ms

Loss rate: 7.18%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-08-27 22:06:00

End at: 2018-08-27 22:06:30

Local clock offset: 1.779 ms

Remote clock offset: -2.813 ms

# Below is generated by plot.py at 2018-08-27 23:55:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 67.54 Mbit/s

95th percentile per-packet one-way delay: 16.853 ms

Loss rate: 6.63%

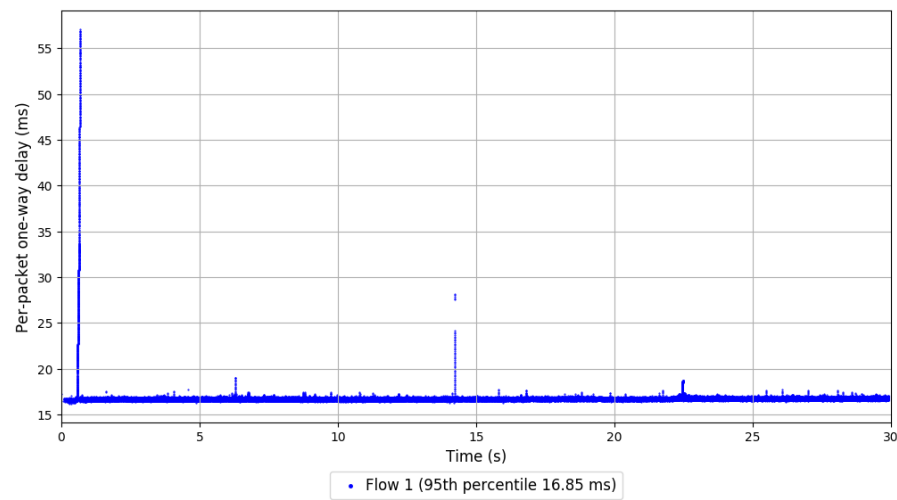
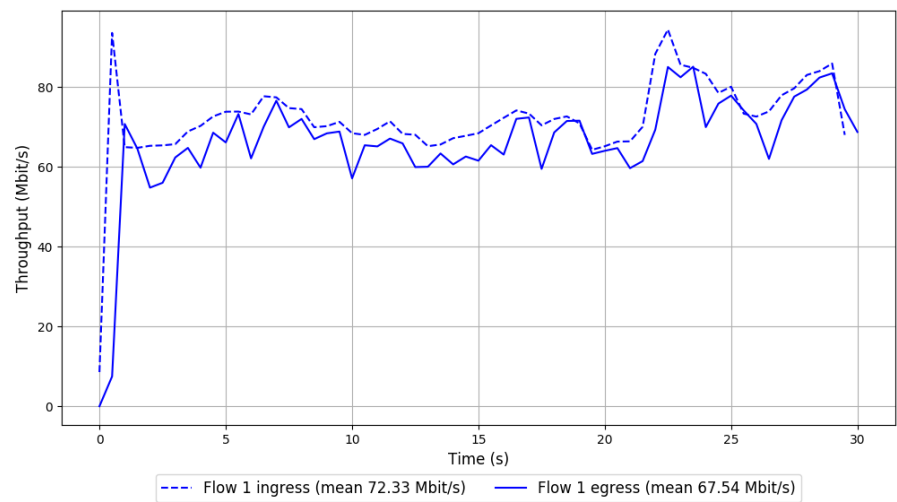
-- Flow 1:

Average throughput: 67.54 Mbit/s

95th percentile per-packet one-way delay: 16.853 ms

Loss rate: 6.63%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-08-27 22:24:48

End at: 2018-08-27 22:25:18

Local clock offset: 0.116 ms

Remote clock offset: -2.753 ms

# Below is generated by plot.py at 2018-08-27 23:55:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 78.66 Mbit/s

95th percentile per-packet one-way delay: 12.145 ms

Loss rate: 8.96%

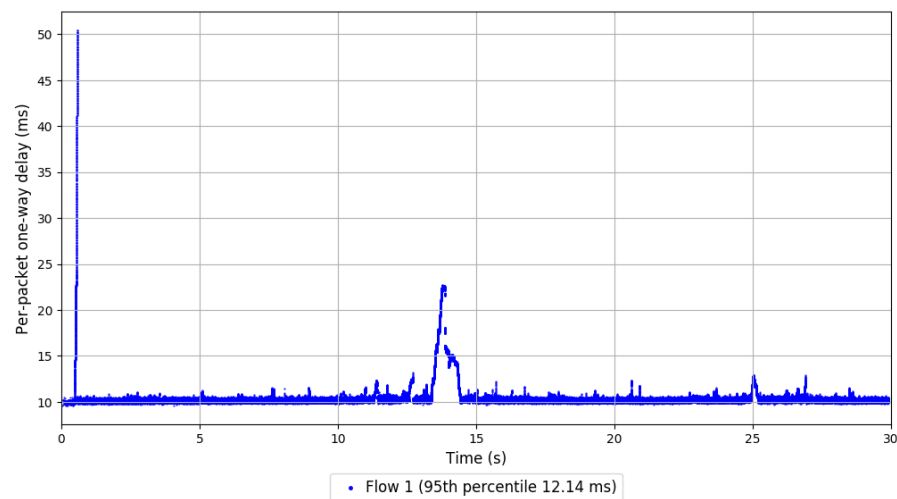
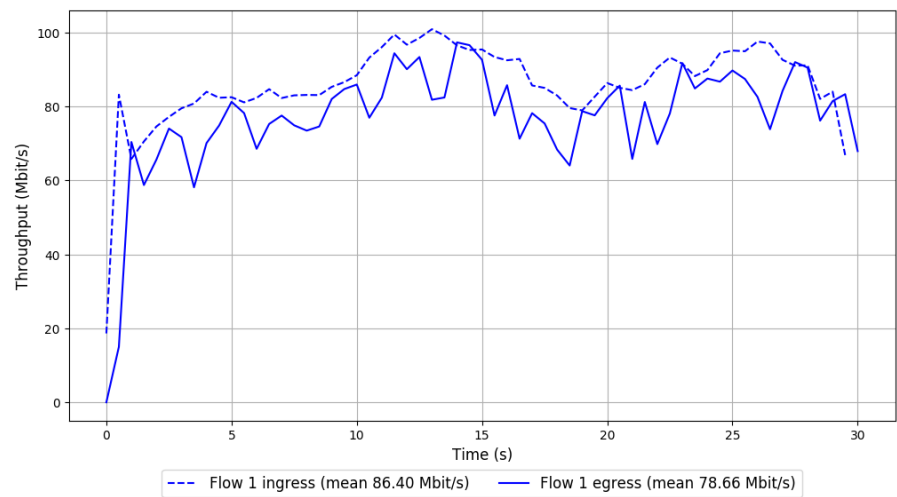
-- Flow 1:

Average throughput: 78.66 Mbit/s

95th percentile per-packet one-way delay: 12.145 ms

Loss rate: 8.96%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-08-27 22:43:32

End at: 2018-08-27 22:44:02

Local clock offset: 0.672 ms

Remote clock offset: -2.619 ms

# Below is generated by plot.py at 2018-08-27 23:55:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.42 Mbit/s

95th percentile per-packet one-way delay: 16.303 ms

Loss rate: 7.39%

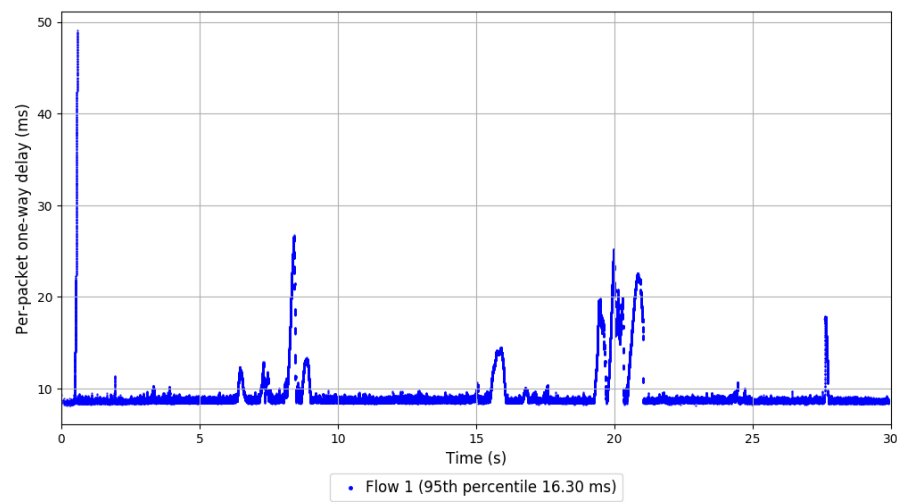
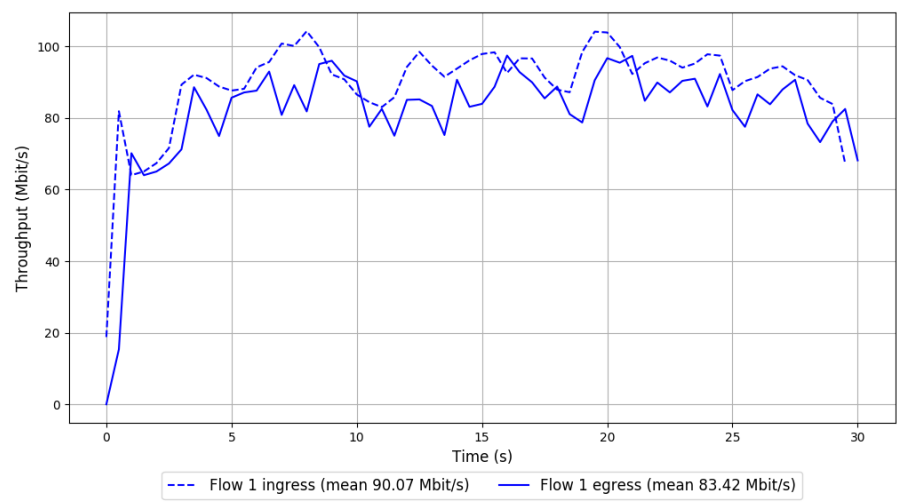
-- Flow 1:

Average throughput: 83.42 Mbit/s

95th percentile per-packet one-way delay: 16.303 ms

Loss rate: 7.39%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-08-27 23:02:15

End at: 2018-08-27 23:02:46

Local clock offset: 1.935 ms

Remote clock offset: -2.511 ms

# Below is generated by plot.py at 2018-08-27 23:55:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 68.06 Mbit/s

95th percentile per-packet one-way delay: 7.617 ms

Loss rate: 7.23%

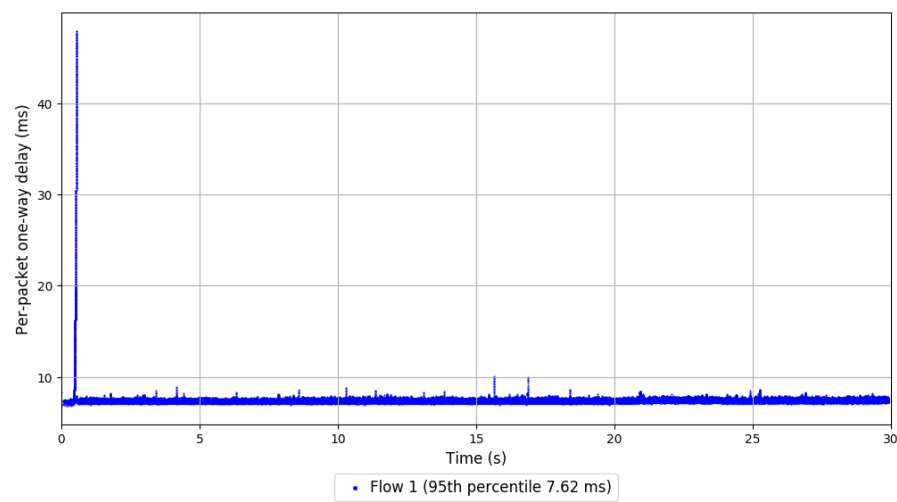
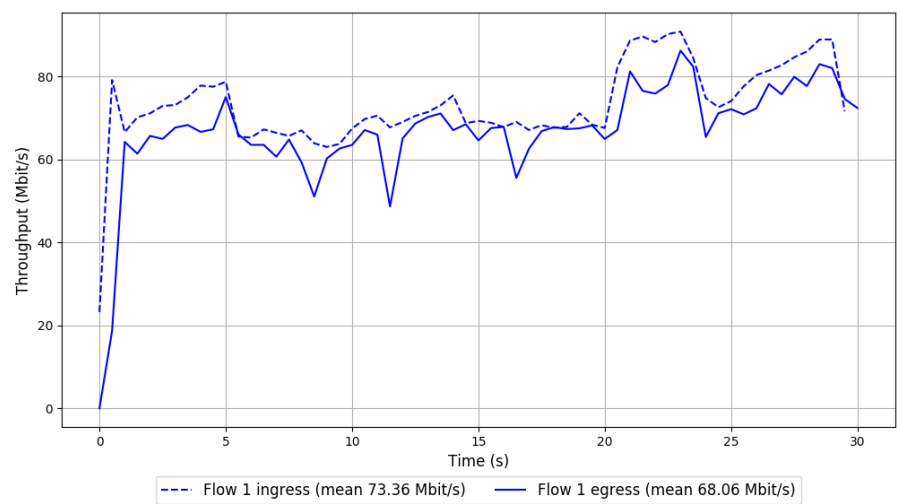
-- Flow 1:

Average throughput: 68.06 Mbit/s

95th percentile per-packet one-way delay: 7.617 ms

Loss rate: 7.23%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-08-27 23:20:59

End at: 2018-08-27 23:21:29

Local clock offset: 1.039 ms

Remote clock offset: -2.743 ms

# Below is generated by plot.py at 2018-08-27 23:55:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.39 Mbit/s

95th percentile per-packet one-way delay: 8.271 ms

Loss rate: 6.10%

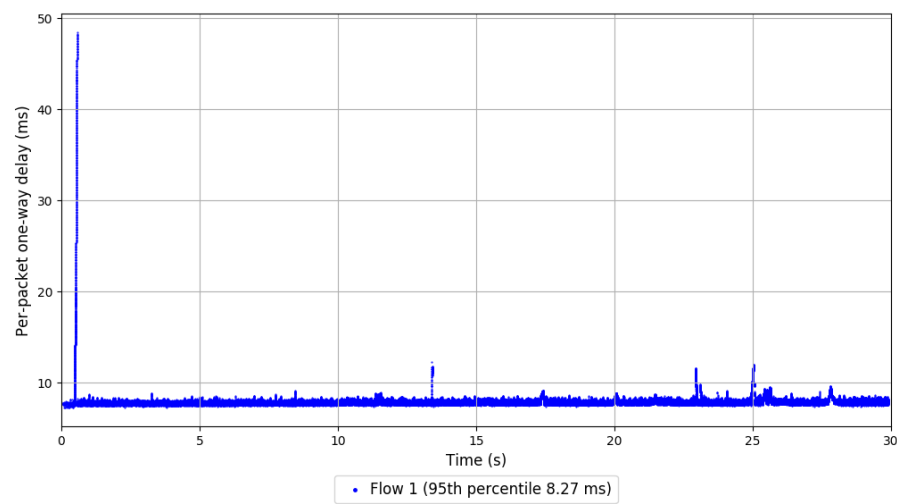
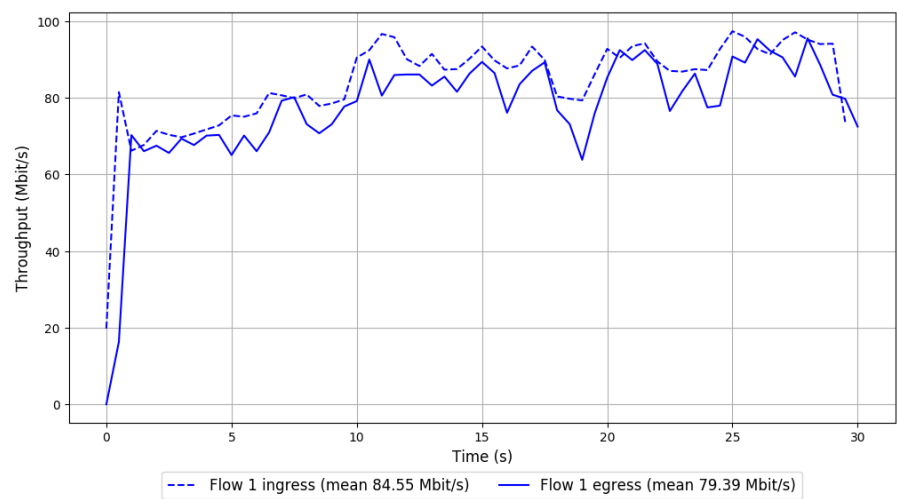
-- Flow 1:

Average throughput: 79.39 Mbit/s

95th percentile per-packet one-way delay: 8.271 ms

Loss rate: 6.10%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-08-27 23:39:48

End at: 2018-08-27 23:40:18

Local clock offset: -0.065 ms

Remote clock offset: -2.71 ms

# Below is generated by plot.py at 2018-08-27 23:56:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 81.89 Mbit/s

95th percentile per-packet one-way delay: 13.644 ms

Loss rate: 7.23%

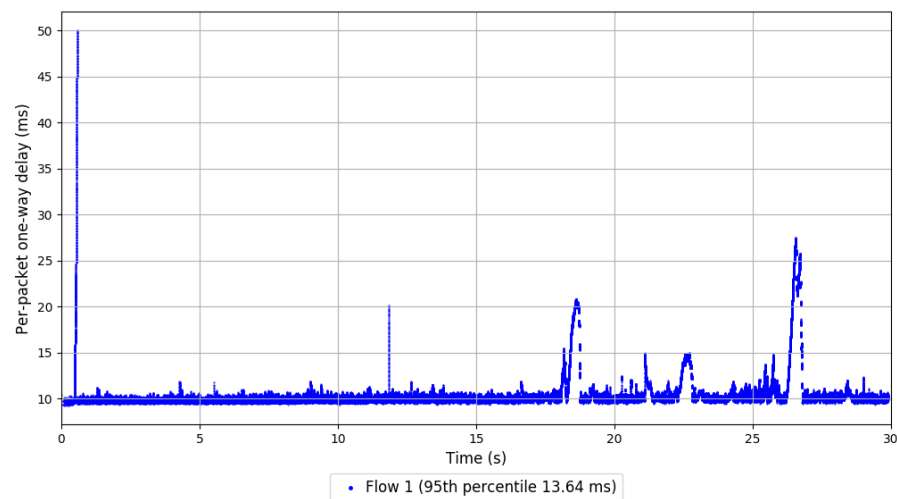
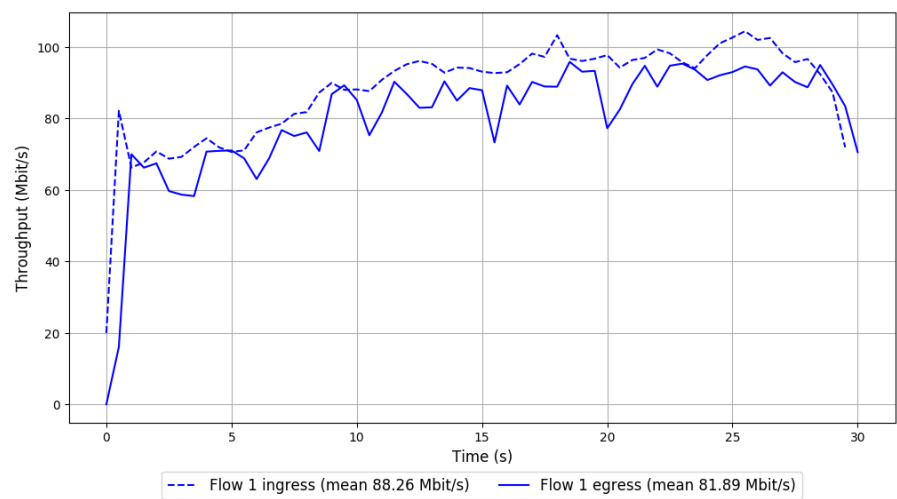
-- Flow 1:

Average throughput: 81.89 Mbit/s

95th percentile per-packet one-way delay: 13.644 ms

Loss rate: 7.23%

Run 10: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-08-27 20:45:27

End at: 2018-08-27 20:45:57

Local clock offset: 1.747 ms

Remote clock offset: -2.483 ms

# Below is generated by plot.py at 2018-08-27 23:56:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.50 Mbit/s

95th percentile per-packet one-way delay: 9.277 ms

Loss rate: 17.15%

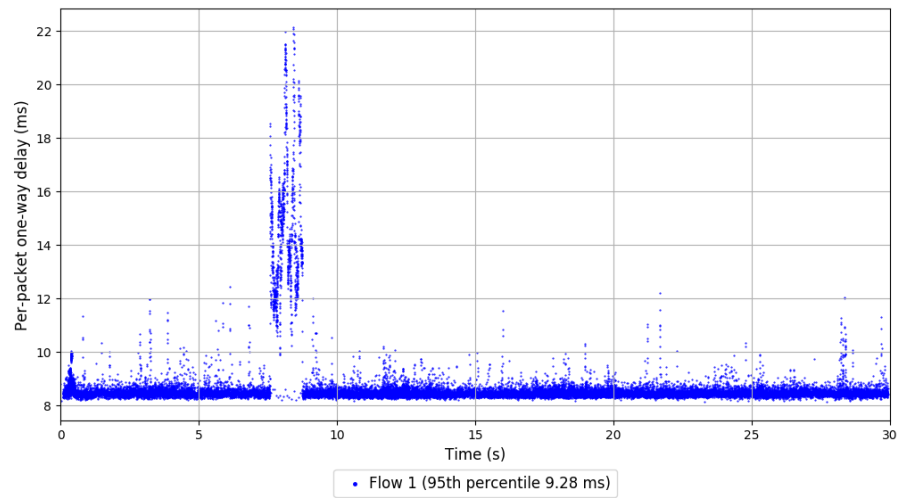
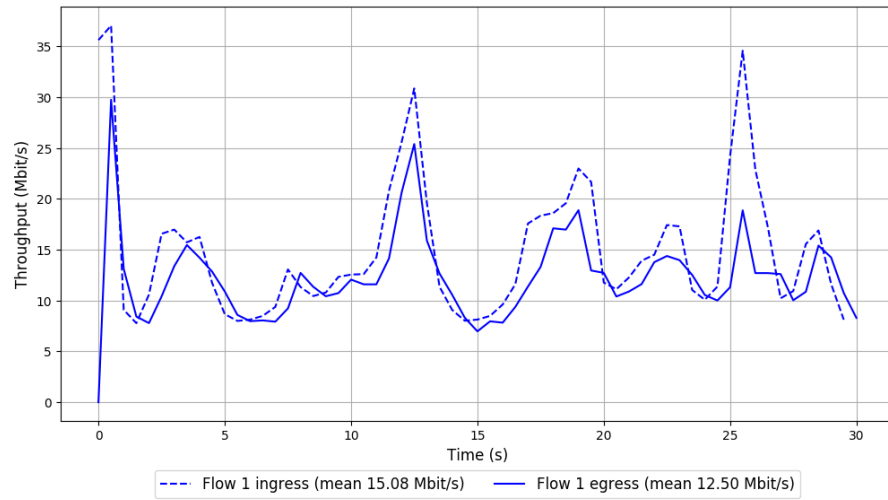
-- Flow 1:

Average throughput: 12.50 Mbit/s

95th percentile per-packet one-way delay: 9.277 ms

Loss rate: 17.15%

### Run 1: Report of PCC-Expr — Data Link

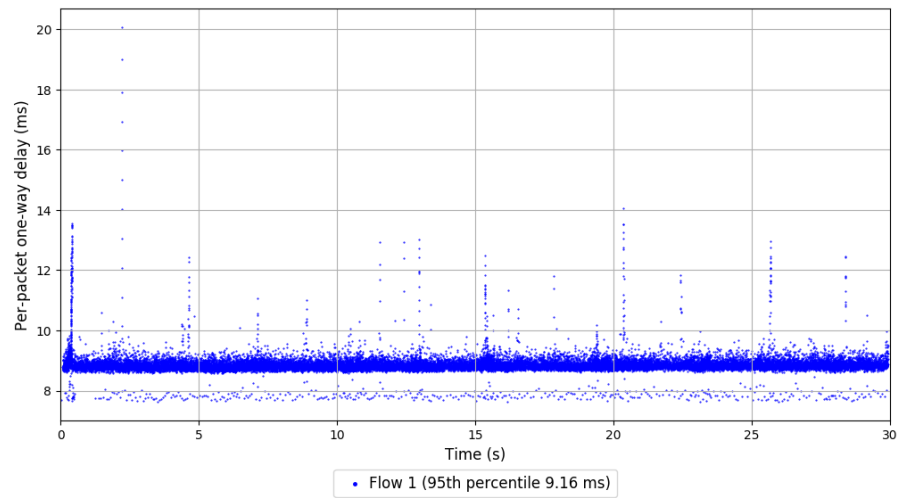
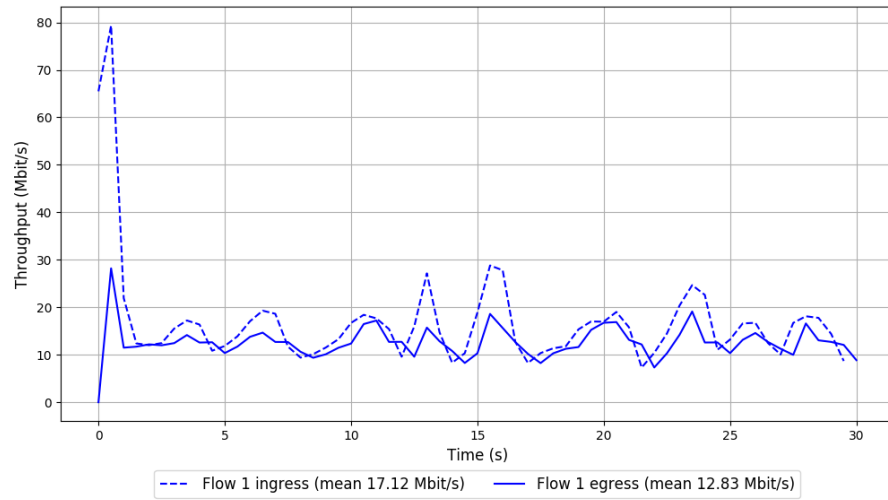


Run 2: Statistics of PCC-Expr

Start at: 2018-08-27 21:04:14  
End at: 2018-08-27 21:04:44  
Local clock offset: 1.154 ms  
Remote clock offset: -3.355 ms

# Below is generated by plot.py at 2018-08-27 23:56:11  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.83 Mbit/s  
95th percentile per-packet one-way delay: 9.159 ms  
Loss rate: 25.03%  
-- Flow 1:  
Average throughput: 12.83 Mbit/s  
95th percentile per-packet one-way delay: 9.159 ms  
Loss rate: 25.03%

## Run 2: Report of PCC-Expr — Data Link

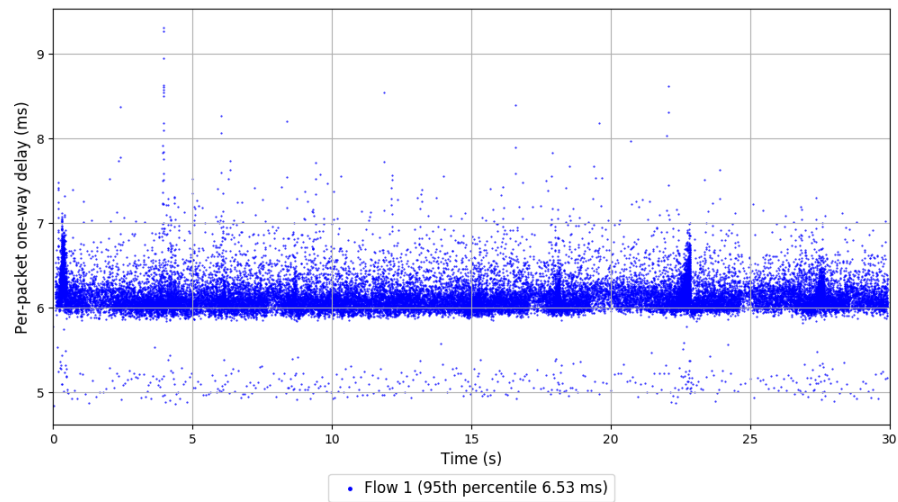
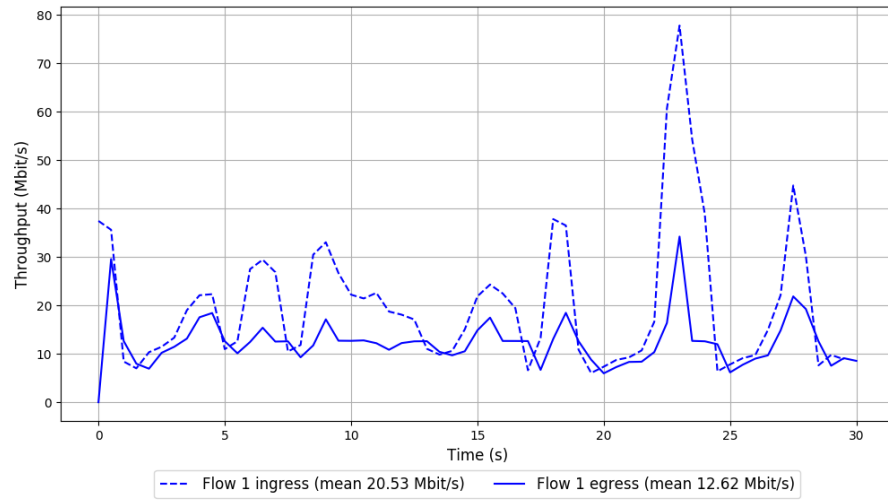


Run 3: Statistics of PCC-Expr

Start at: 2018-08-27 21:22:50  
End at: 2018-08-27 21:23:20  
Local clock offset: 4.844 ms  
Remote clock offset: -2.926 ms

# Below is generated by plot.py at 2018-08-27 23:56:11  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.62 Mbit/s  
95th percentile per-packet one-way delay: 6.528 ms  
Loss rate: 38.52%  
-- Flow 1:  
Average throughput: 12.62 Mbit/s  
95th percentile per-packet one-way delay: 6.528 ms  
Loss rate: 38.52%

### Run 3: Report of PCC-Expr — Data Link

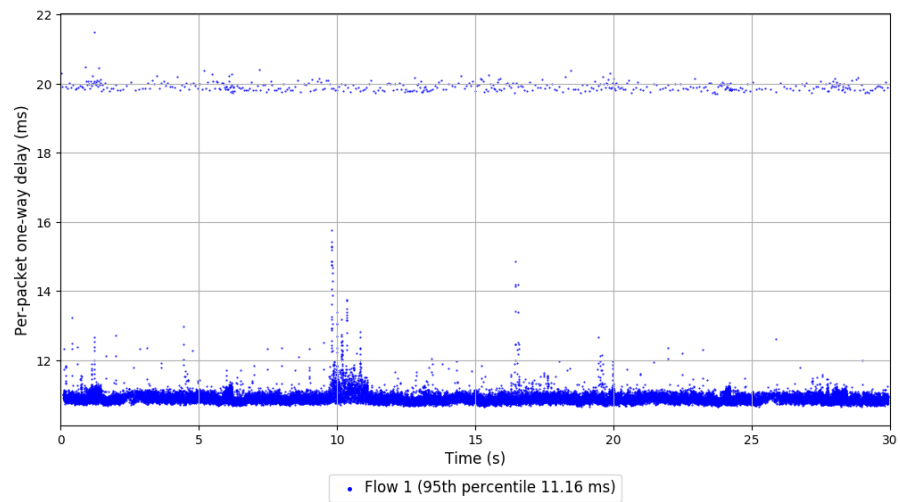
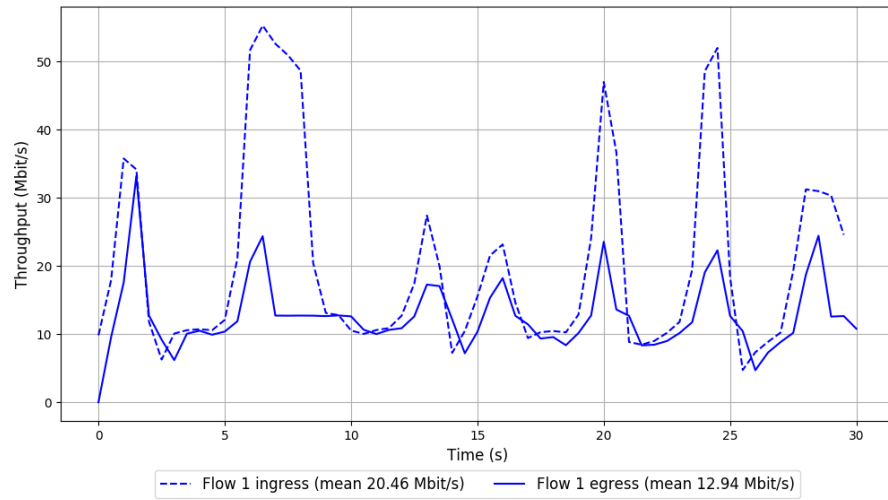


Run 4: Statistics of PCC-Expr

Start at: 2018-08-27 21:41:35  
End at: 2018-08-27 21:42:05  
Local clock offset: -1.163 ms  
Remote clock offset: -2.665 ms

# Below is generated by plot.py at 2018-08-27 23:56:11  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.94 Mbit/s  
95th percentile per-packet one-way delay: 11.165 ms  
Loss rate: 36.77%  
-- Flow 1:  
Average throughput: 12.94 Mbit/s  
95th percentile per-packet one-way delay: 11.165 ms  
Loss rate: 36.77%

#### Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-08-27 22:00:23

End at: 2018-08-27 22:00:54

Local clock offset: 0.958 ms

Remote clock offset: -2.813 ms

# Below is generated by plot.py at 2018-08-27 23:56:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 7.958 ms

Loss rate: 37.19%

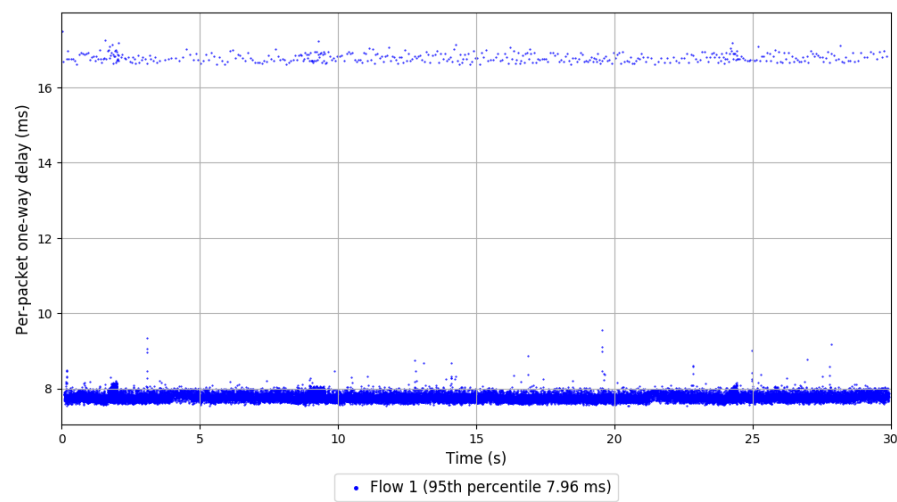
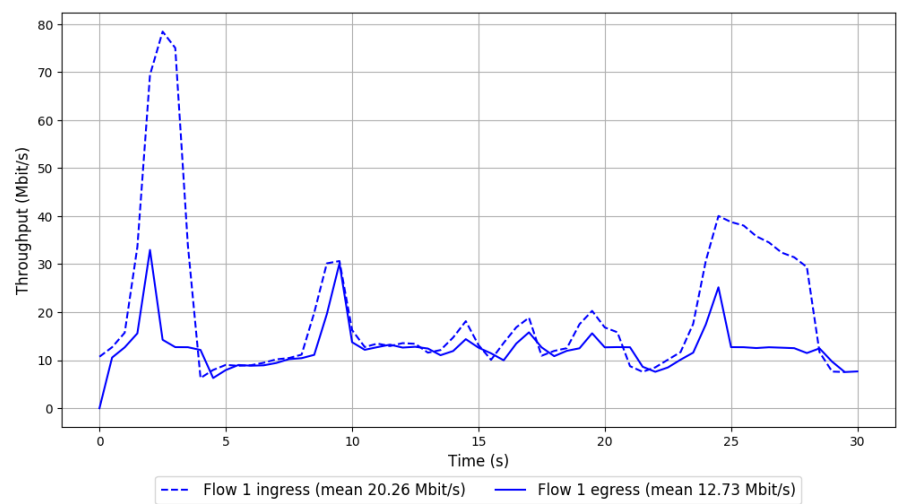
-- Flow 1:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 7.958 ms

Loss rate: 37.19%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-08-27 22:19:17

End at: 2018-08-27 22:19:47

Local clock offset: 1.298 ms

Remote clock offset: -1.94 ms

# Below is generated by plot.py at 2018-08-27 23:56:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.91 Mbit/s

95th percentile per-packet one-way delay: 10.166 ms

Loss rate: 42.20%

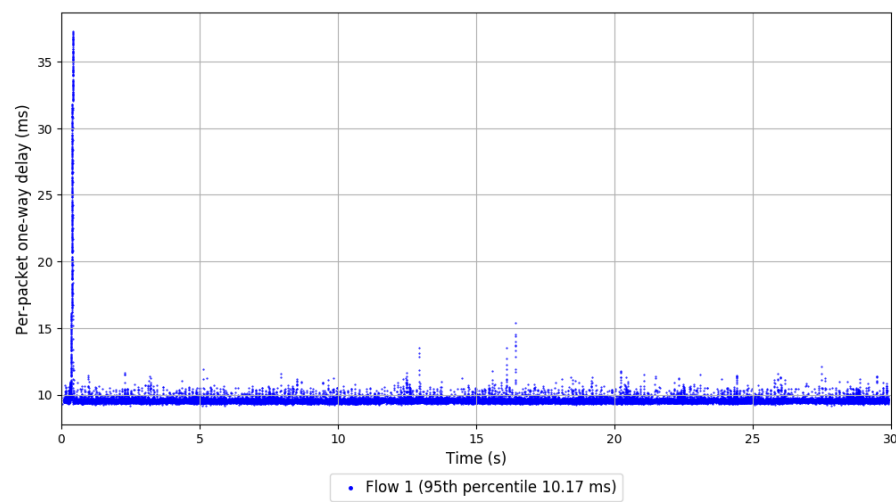
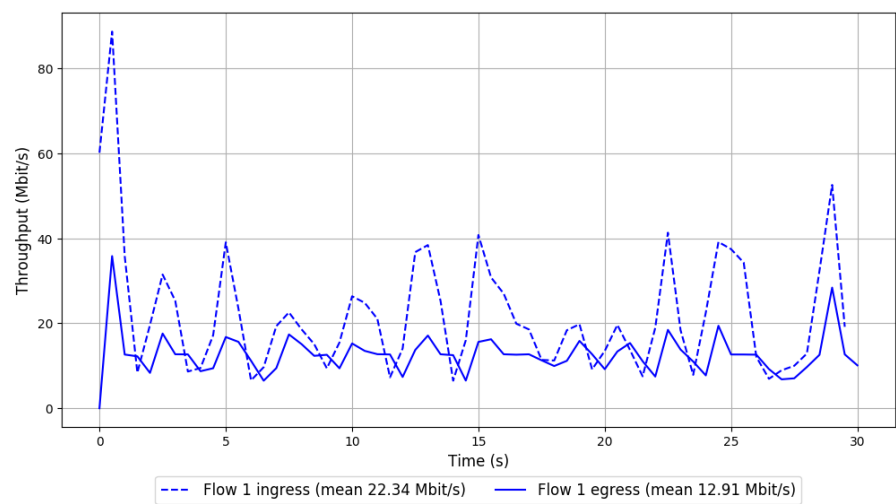
-- Flow 1:

Average throughput: 12.91 Mbit/s

95th percentile per-packet one-way delay: 10.166 ms

Loss rate: 42.20%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-08-27 22:37:59

End at: 2018-08-27 22:38:29

Local clock offset: 0.499 ms

Remote clock offset: -3.05 ms

# Below is generated by plot.py at 2018-08-27 23:56:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.02 Mbit/s

95th percentile per-packet one-way delay: 9.598 ms

Loss rate: 44.78%

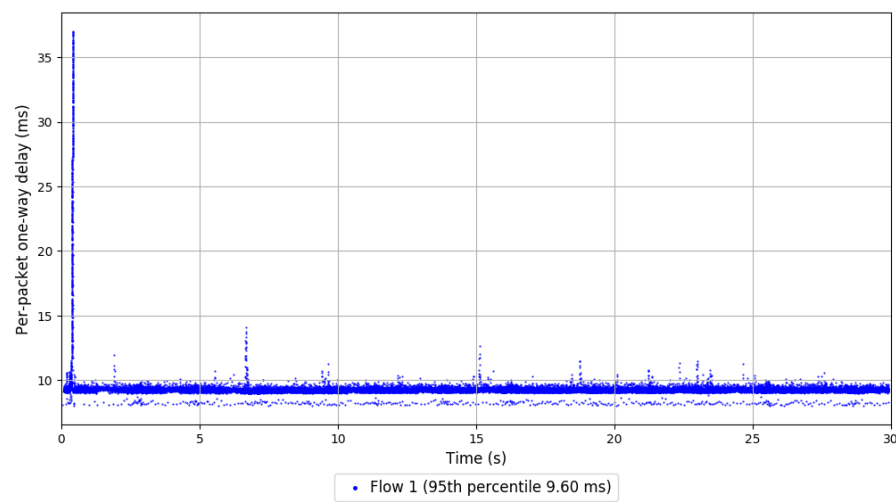
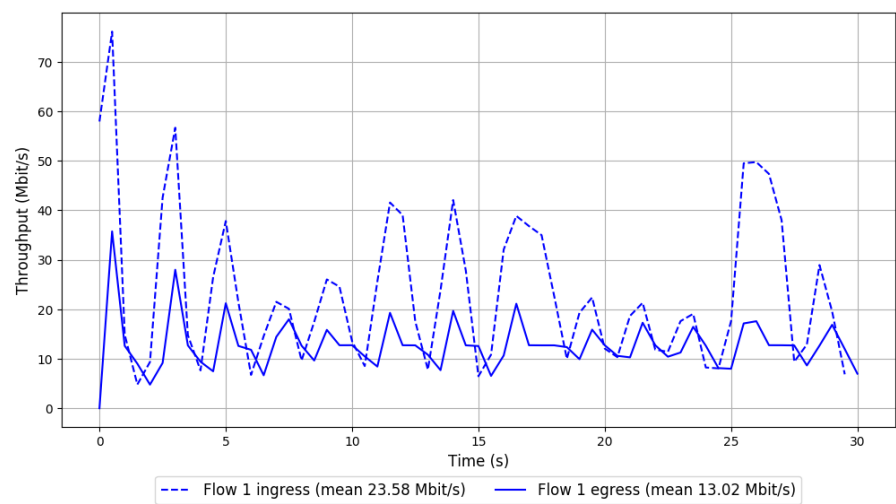
-- Flow 1:

Average throughput: 13.02 Mbit/s

95th percentile per-packet one-way delay: 9.598 ms

Loss rate: 44.78%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-08-27 22:56:44

End at: 2018-08-27 22:57:14

Local clock offset: 1.875 ms

Remote clock offset: -2.307 ms

# Below is generated by plot.py at 2018-08-27 23:56:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.00 Mbit/s

95th percentile per-packet one-way delay: 8.918 ms

Loss rate: 34.75%

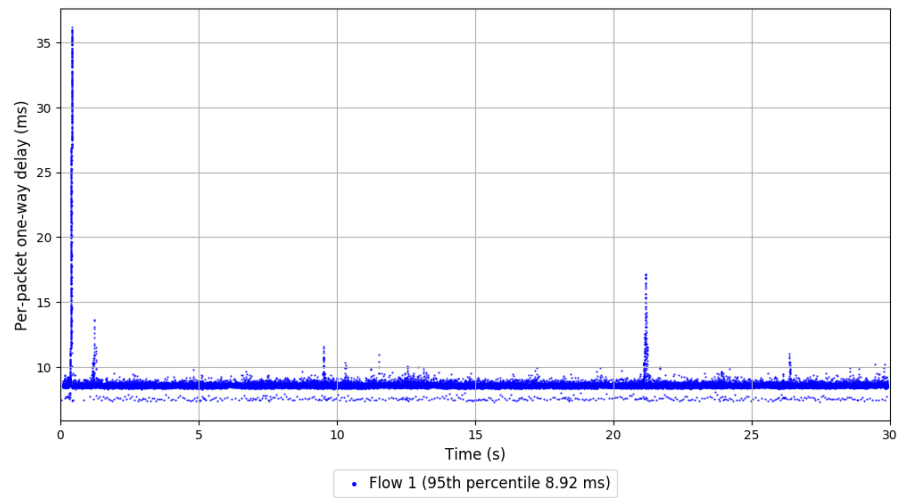
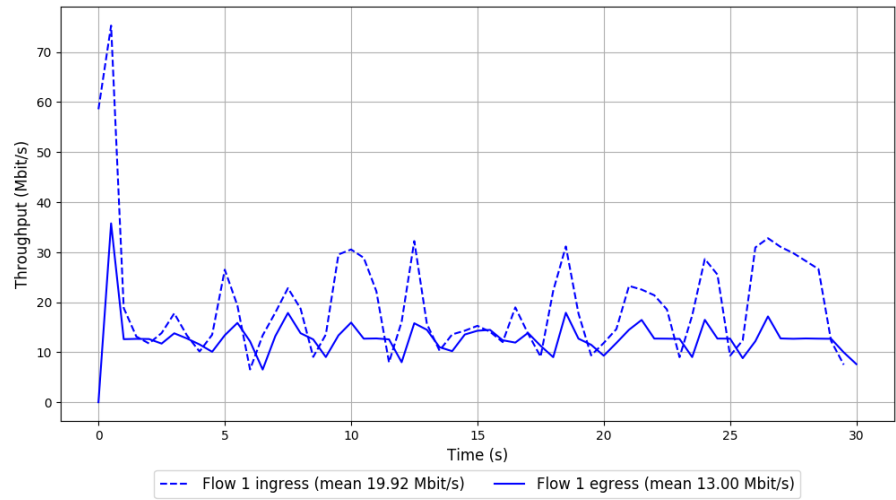
-- Flow 1:

Average throughput: 13.00 Mbit/s

95th percentile per-packet one-way delay: 8.918 ms

Loss rate: 34.75%

## Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-08-27 23:15:26

End at: 2018-08-27 23:15:56

Local clock offset: 1.428 ms

Remote clock offset: -2.89 ms

# Below is generated by plot.py at 2018-08-27 23:56:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.04 Mbit/s

95th percentile per-packet one-way delay: 8.576 ms

Loss rate: 39.56%

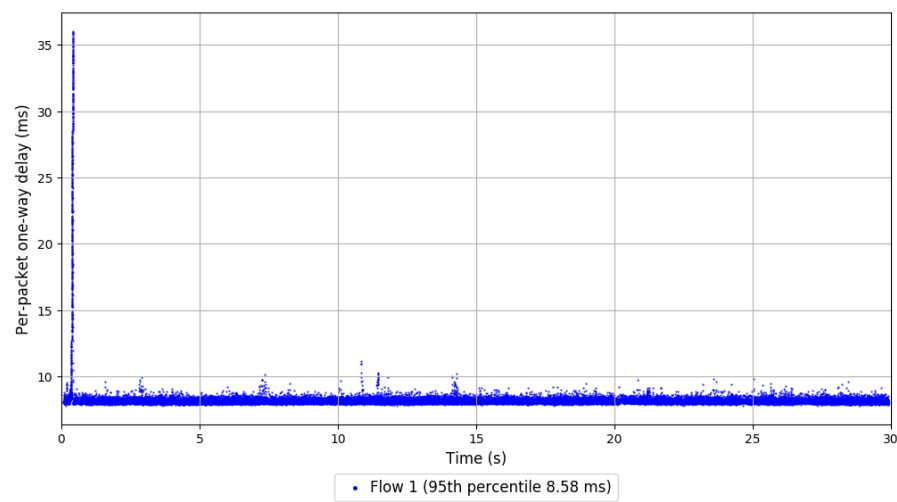
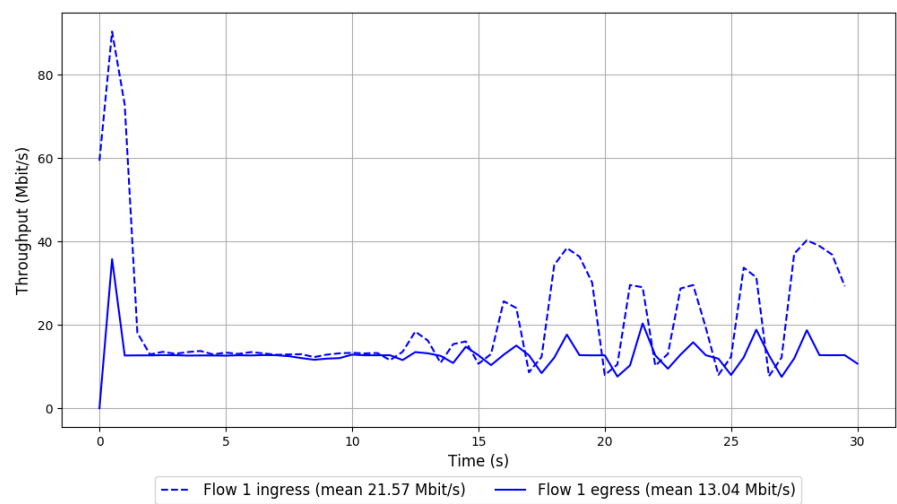
-- Flow 1:

Average throughput: 13.04 Mbit/s

95th percentile per-packet one-way delay: 8.576 ms

Loss rate: 39.56%

Run 9: Report of PCC-Expr — Data Link

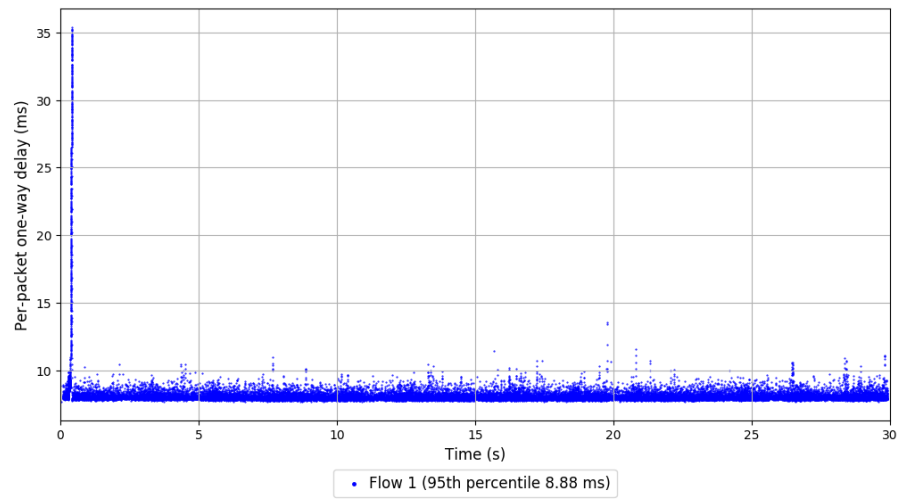
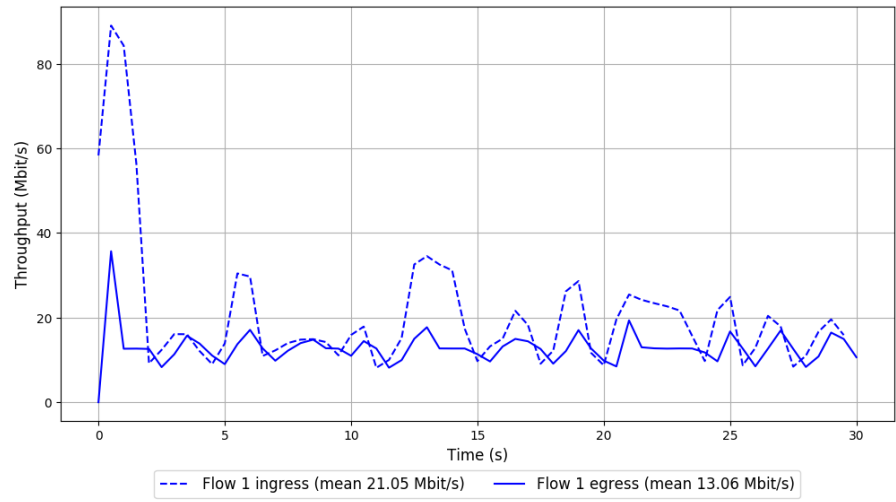


Run 10: Statistics of PCC-Expr

Start at: 2018-08-27 23:34:13  
End at: 2018-08-27 23:34:43  
Local clock offset: 1.503 ms  
Remote clock offset: -2.823 ms

# Below is generated by plot.py at 2018-08-27 23:56:11  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 13.06 Mbit/s  
95th percentile per-packet one-way delay: 8.884 ms  
Loss rate: 37.98%  
-- Flow 1:  
Average throughput: 13.06 Mbit/s  
95th percentile per-packet one-way delay: 8.884 ms  
Loss rate: 37.98%

# Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-08-27 20:46:32

End at: 2018-08-27 20:47:02

Local clock offset: -1.24 ms

Remote clock offset: -3.035 ms

# Below is generated by plot.py at 2018-08-27 23:56:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 19.63 Mbit/s

95th percentile per-packet one-way delay: 10.343 ms

Loss rate: 1.14%

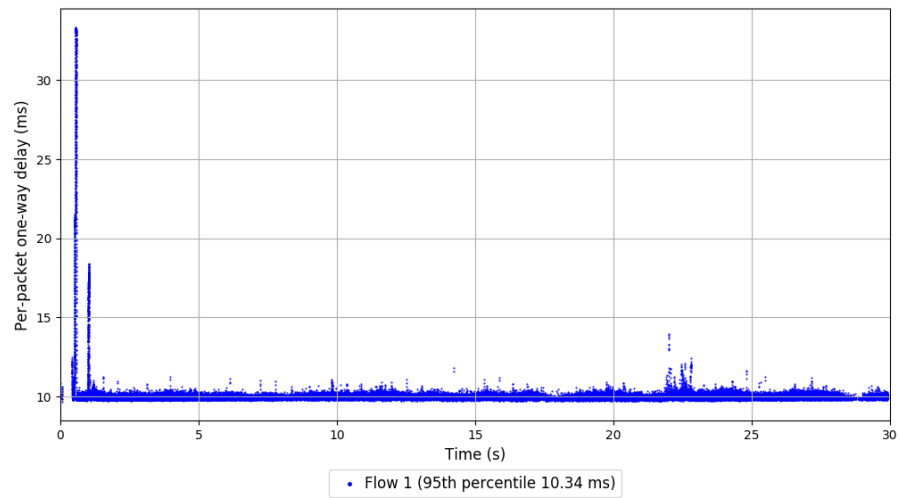
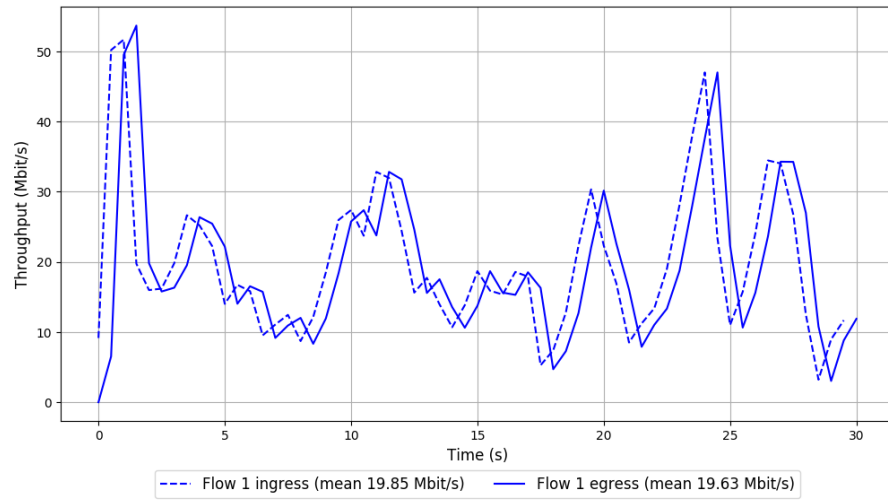
-- Flow 1:

Average throughput: 19.63 Mbit/s

95th percentile per-packet one-way delay: 10.343 ms

Loss rate: 1.14%

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



Run 2: Statistics of QUIC Cubic

Start at: 2018-08-27 21:05:18

End at: 2018-08-27 21:05:49

Local clock offset: -1.229 ms

Remote clock offset: -3.659 ms

# Below is generated by plot.py at 2018-08-27 23:56:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.53 Mbit/s

95th percentile per-packet one-way delay: 11.166 ms

Loss rate: 2.45%

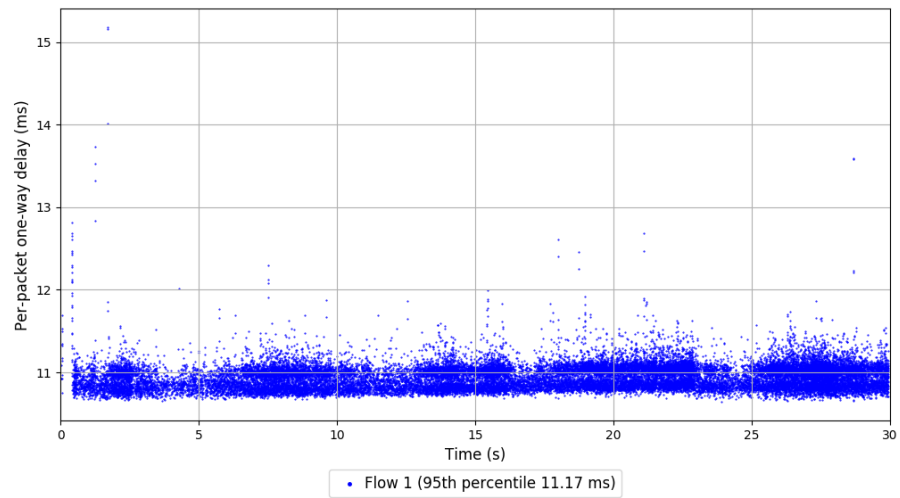
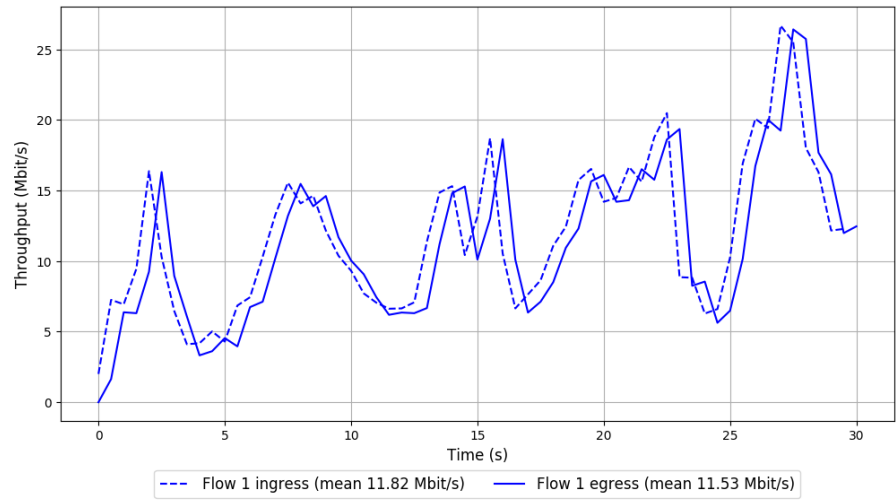
-- Flow 1:

Average throughput: 11.53 Mbit/s

95th percentile per-packet one-way delay: 11.166 ms

Loss rate: 2.45%

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



Run 3: Statistics of QUIC Cubic

Start at: 2018-08-27 21:23:55

End at: 2018-08-27 21:24:25

Local clock offset: -0.679 ms

Remote clock offset: -2.66 ms

# Below is generated by plot.py at 2018-08-27 23:56:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 23.89 Mbit/s

95th percentile per-packet one-way delay: 31.192 ms

Loss rate: 2.21%

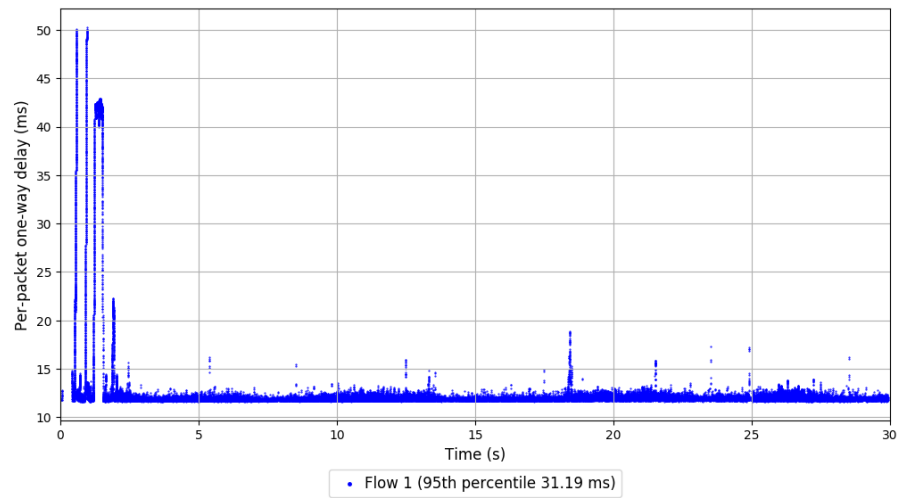
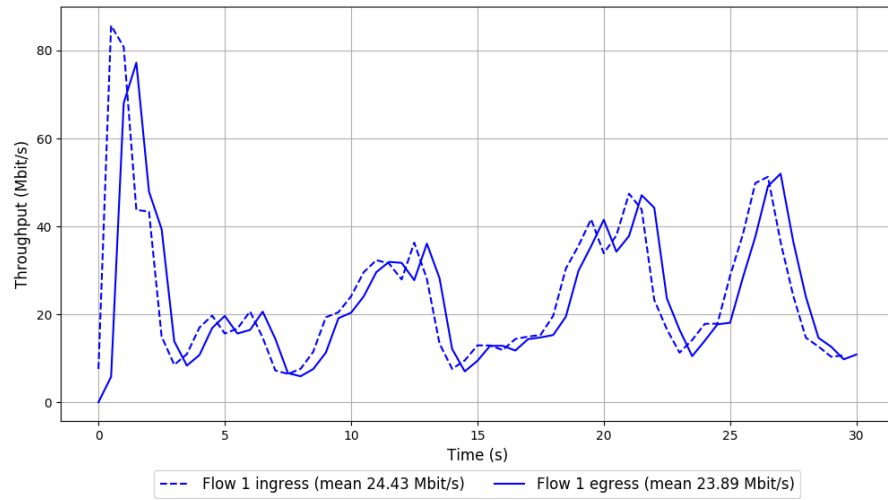
-- Flow 1:

Average throughput: 23.89 Mbit/s

95th percentile per-packet one-way delay: 31.192 ms

Loss rate: 2.21%

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

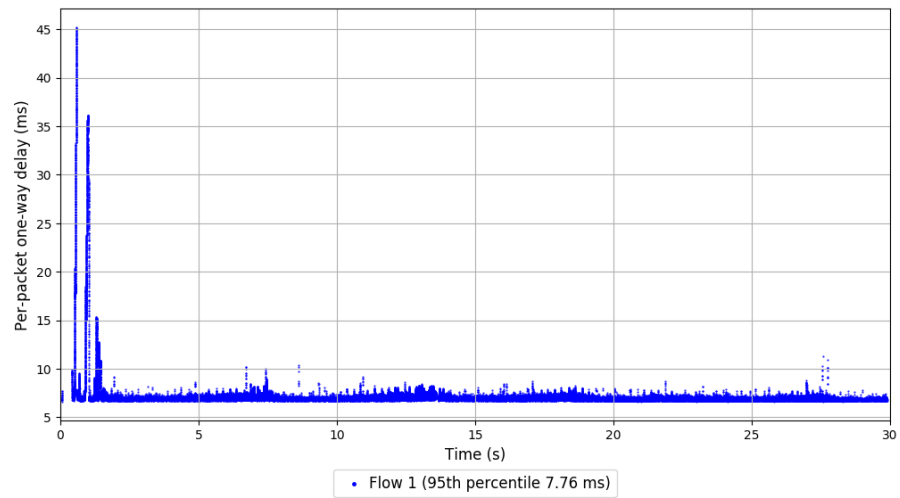
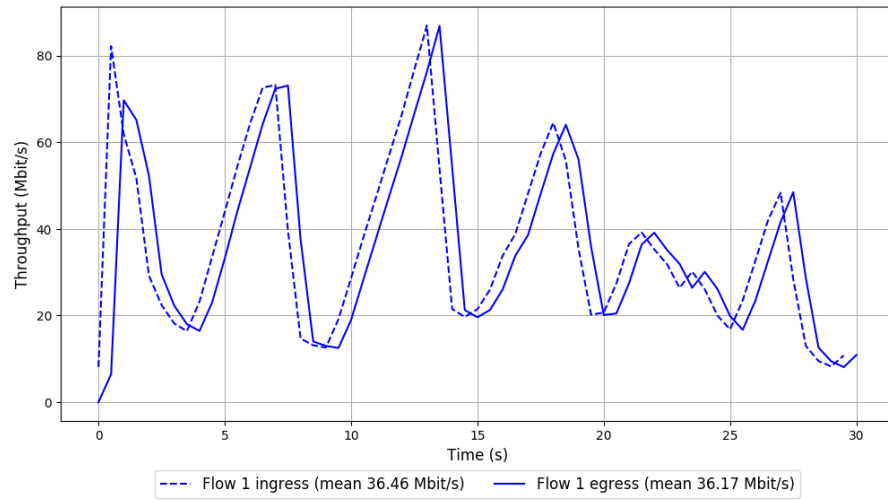


Run 4: Statistics of QUIC Cubic

Start at: 2018-08-27 21:42:40  
End at: 2018-08-27 21:43:10  
Local clock offset: 2.696 ms  
Remote clock offset: -2.688 ms

# Below is generated by plot.py at 2018-08-27 23:56:11  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 36.17 Mbit/s  
95th percentile per-packet one-way delay: 7.763 ms  
Loss rate: 0.79%  
-- Flow 1:  
Average throughput: 36.17 Mbit/s  
95th percentile per-packet one-way delay: 7.763 ms  
Loss rate: 0.79%

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



Run 5: Statistics of QUIC Cubic

Start at: 2018-08-27 22:01:29

End at: 2018-08-27 22:01:59

Local clock offset: 0.182 ms

Remote clock offset: -2.752 ms

# Below is generated by plot.py at 2018-08-27 23:56:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 41.90 Mbit/s

95th percentile per-packet one-way delay: 9.700 ms

Loss rate: 0.85%

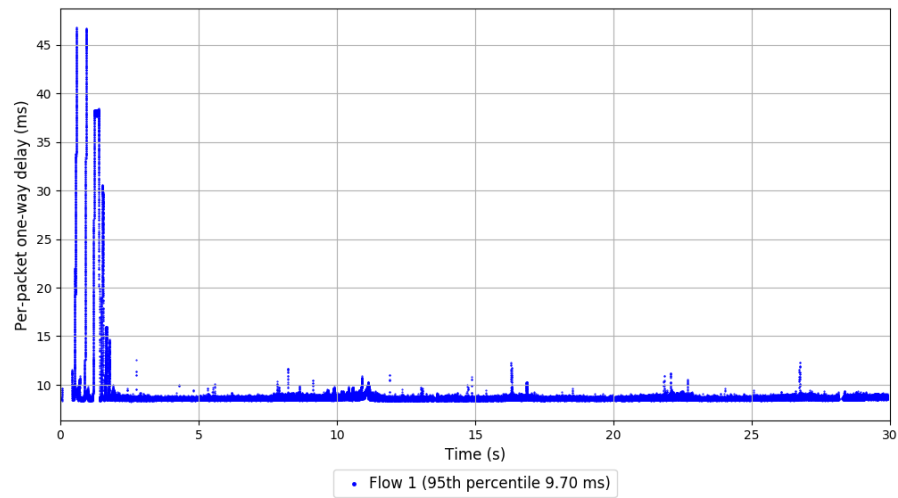
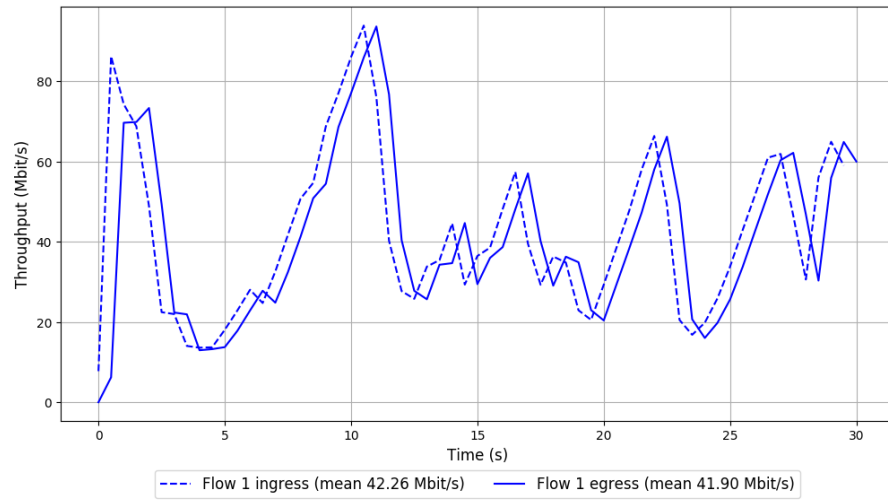
-- Flow 1:

Average throughput: 41.90 Mbit/s

95th percentile per-packet one-way delay: 9.700 ms

Loss rate: 0.85%

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



Run 6: Statistics of QUIC Cubic

Start at: 2018-08-27 22:20:22

End at: 2018-08-27 22:20:52

Local clock offset: 0.583 ms

Remote clock offset: -3.016 ms

# Below is generated by plot.py at 2018-08-27 23:56:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 19.44 Mbit/s

95th percentile per-packet one-way delay: 9.381 ms

Loss rate: 2.35%

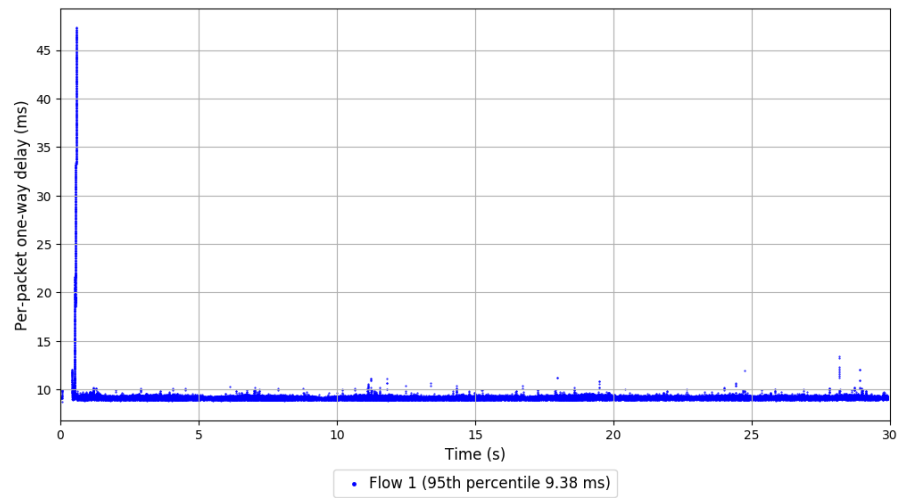
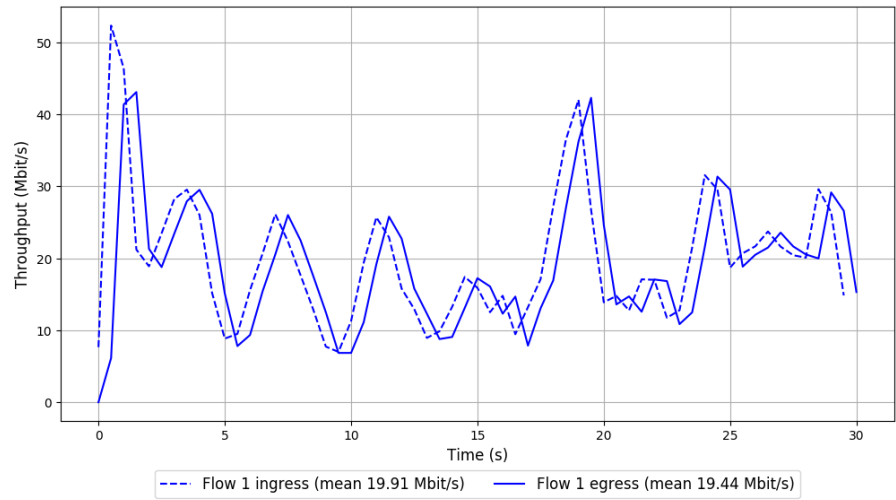
-- Flow 1:

Average throughput: 19.44 Mbit/s

95th percentile per-packet one-way delay: 9.381 ms

Loss rate: 2.35%

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



Run 7: Statistics of QUIC Cubic

Start at: 2018-08-27 22:39:04

End at: 2018-08-27 22:39:34

Local clock offset: 2.713 ms

Remote clock offset: -3.231 ms

# Below is generated by plot.py at 2018-08-27 23:56:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 53.05 Mbit/s

95th percentile per-packet one-way delay: 8.333 ms

Loss rate: 0.12%

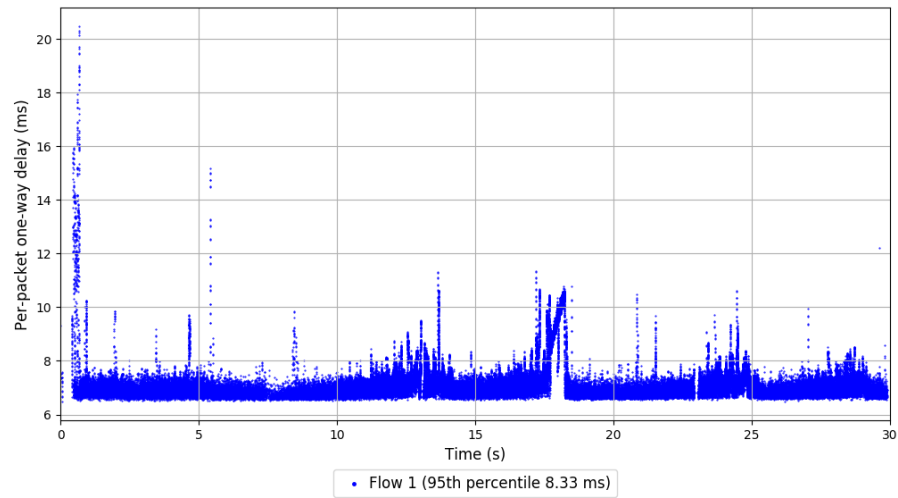
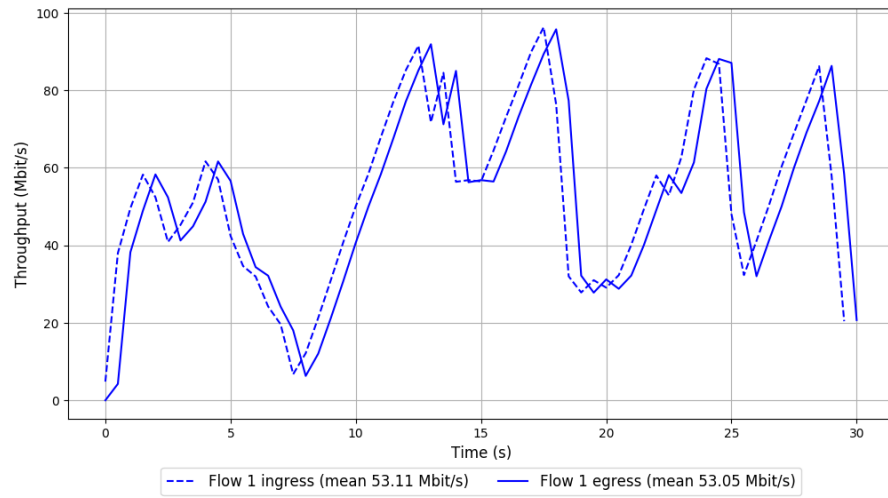
-- Flow 1:

Average throughput: 53.05 Mbit/s

95th percentile per-packet one-way delay: 8.333 ms

Loss rate: 0.12%

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



Run 8: Statistics of QUIC Cubic

Start at: 2018-08-27 22:57:49

End at: 2018-08-27 22:58:19

Local clock offset: 1.478 ms

Remote clock offset: -2.688 ms

# Below is generated by plot.py at 2018-08-27 23:56:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 52.75 Mbit/s

95th percentile per-packet one-way delay: 20.901 ms

Loss rate: 0.62%

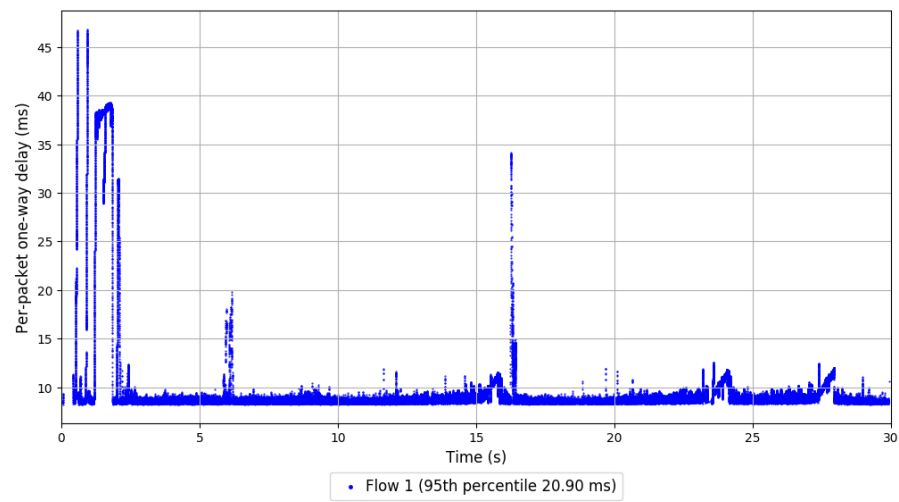
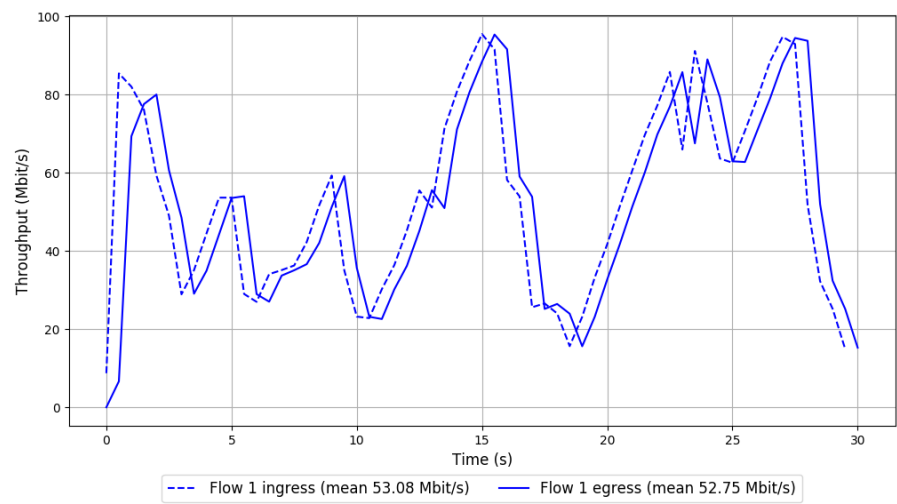
-- Flow 1:

Average throughput: 52.75 Mbit/s

95th percentile per-packet one-way delay: 20.901 ms

Loss rate: 0.62%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-08-27 23:16:31

End at: 2018-08-27 23:17:01

Local clock offset: 1.777 ms

Remote clock offset: -3.466 ms

# Below is generated by plot.py at 2018-08-27 23:56:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 45.74 Mbit/s

95th percentile per-packet one-way delay: 23.166 ms

Loss rate: 0.80%

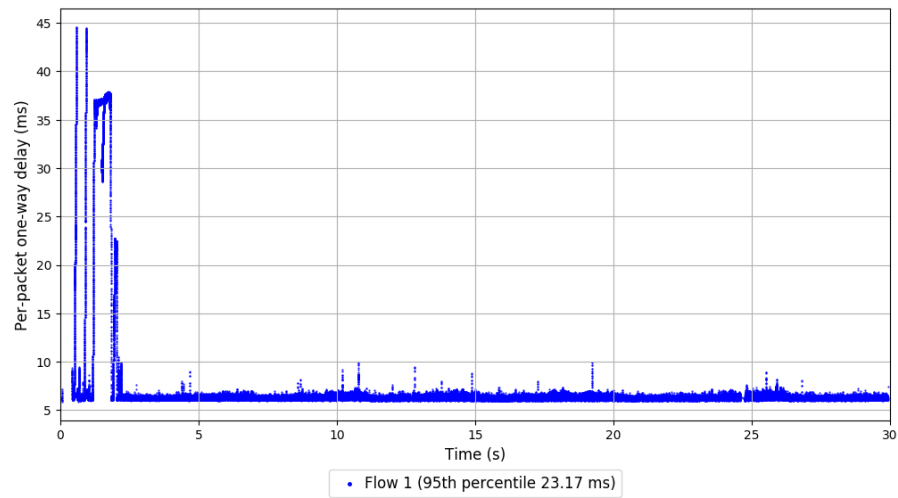
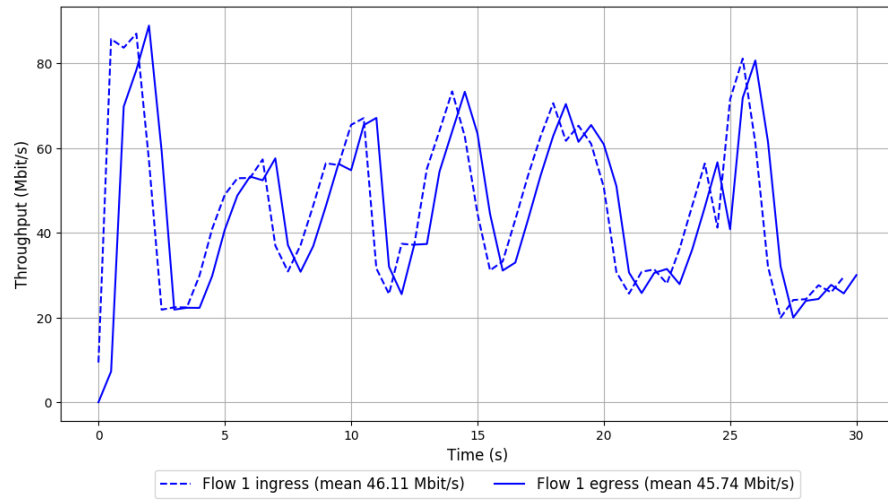
-- Flow 1:

Average throughput: 45.74 Mbit/s

95th percentile per-packet one-way delay: 23.166 ms

Loss rate: 0.80%

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



Run 10: Statistics of QUIC Cubic

Start at: 2018-08-27 23:35:18

End at: 2018-08-27 23:35:48

Local clock offset: 1.011 ms

Remote clock offset: -2.341 ms

# Below is generated by plot.py at 2018-08-27 23:56:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 32.38 Mbit/s

95th percentile per-packet one-way delay: 10.768 ms

Loss rate: 1.45%

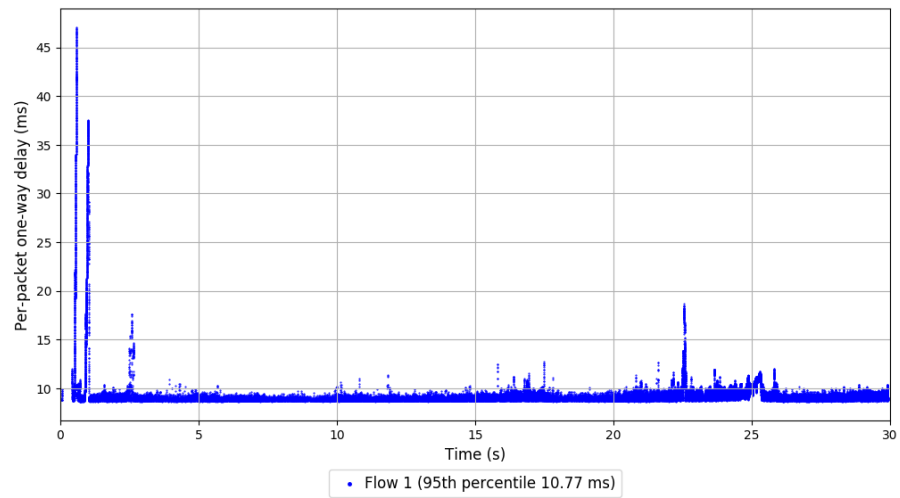
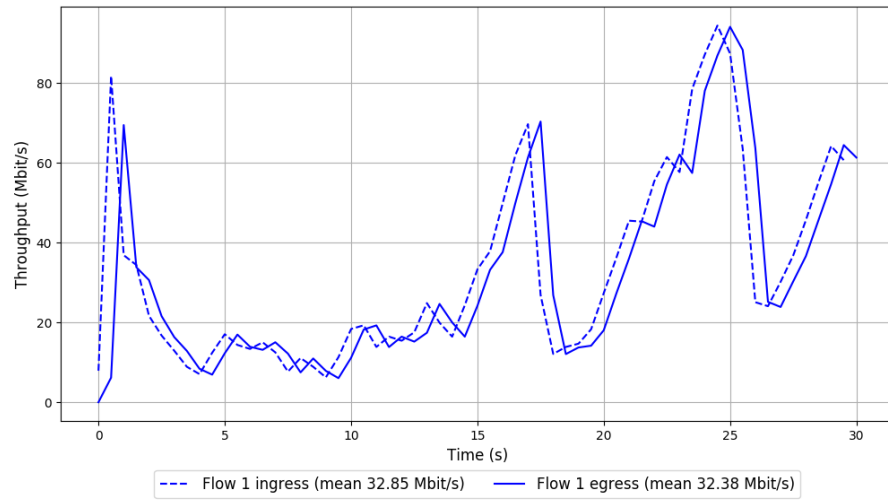
-- Flow 1:

Average throughput: 32.38 Mbit/s

95th percentile per-packet one-way delay: 10.768 ms

Loss rate: 1.45%

### Run 10: Report of QUIC Cubic — Data Link

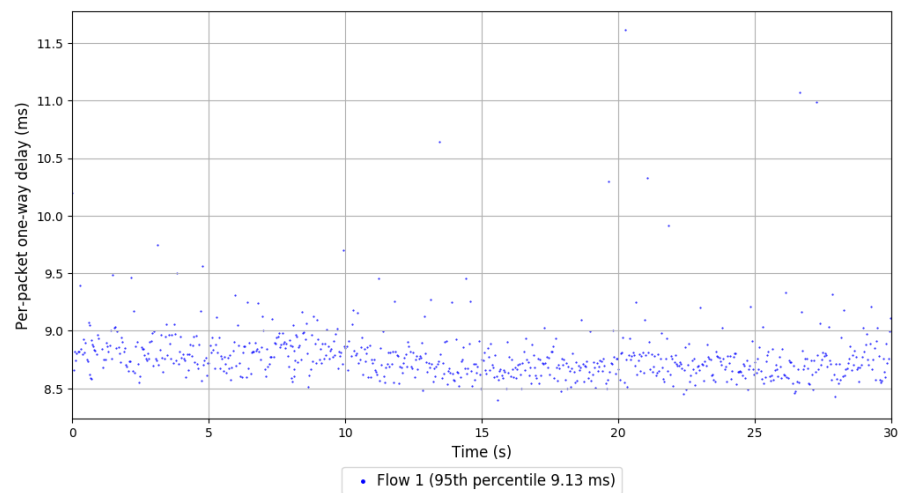
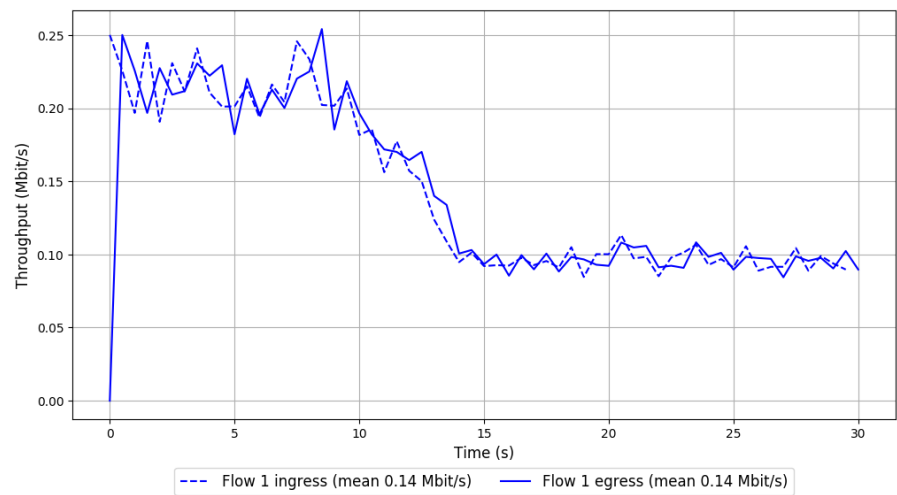


```
Run 1: Statistics of SCReAM

Start at: 2018-08-27 20:52:06
End at: 2018-08-27 20:52:36
Local clock offset: 1.471 ms
Remote clock offset: -2.66 ms

# Below is generated by plot.py at 2018-08-27 23:56:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 9.126 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 9.126 ms
Loss rate: 0.19%
```

Run 1: Report of SReAM — Data Link

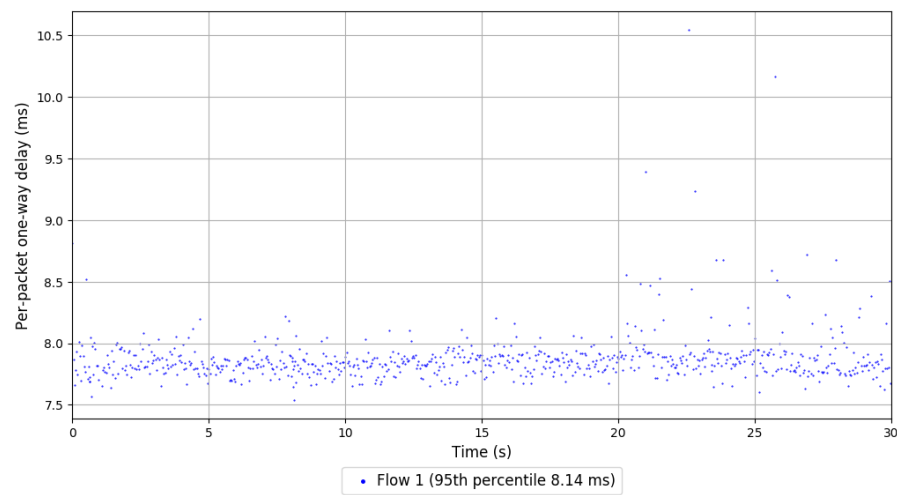
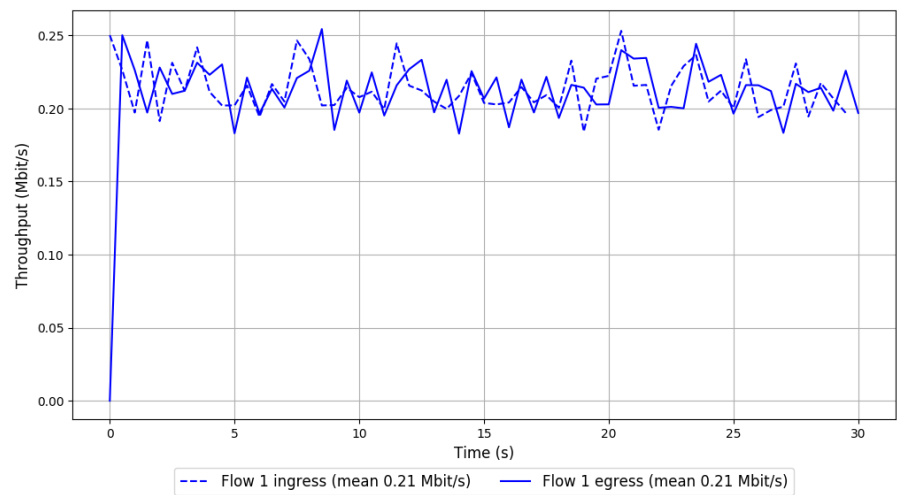


Run 2: Statistics of SCReAM

Start at: 2018-08-27 21:10:47  
End at: 2018-08-27 21:11:17  
Local clock offset: 1.96 ms  
Remote clock offset: -2.821 ms

# Below is generated by plot.py at 2018-08-27 23:56:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 8.140 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 8.140 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

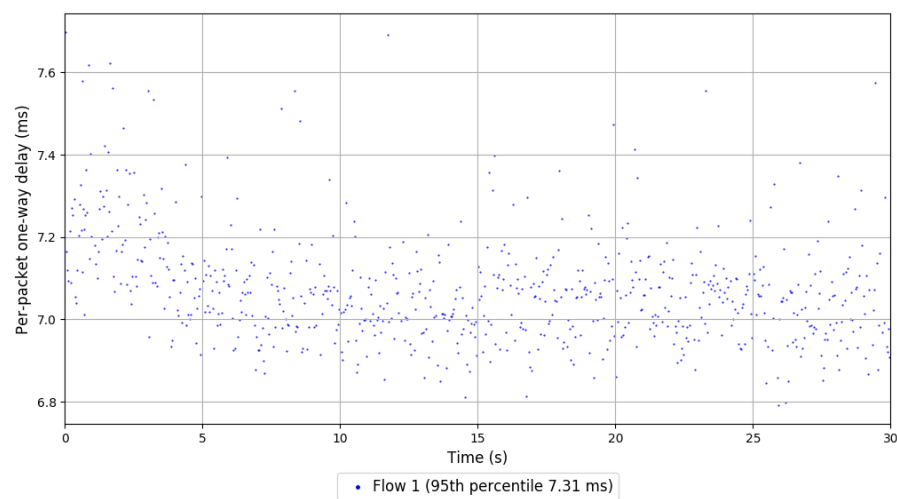
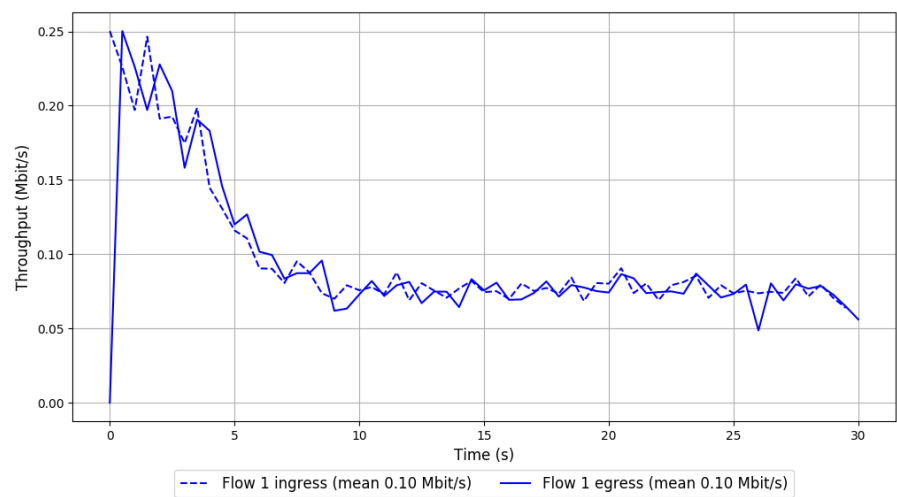


Run 3: Statistics of SCReAM

Start at: 2018-08-27 21:29:27  
End at: 2018-08-27 21:29:58  
Local clock offset: 3.326 ms  
Remote clock offset: -2.537 ms

# Below is generated by plot.py at 2018-08-27 23:56:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.10 Mbit/s  
95th percentile per-packet one-way delay: 7.313 ms  
Loss rate: 2.13%  
-- Flow 1:  
Average throughput: 0.10 Mbit/s  
95th percentile per-packet one-way delay: 7.313 ms  
Loss rate: 2.13%

Run 3: Report of SReAM — Data Link

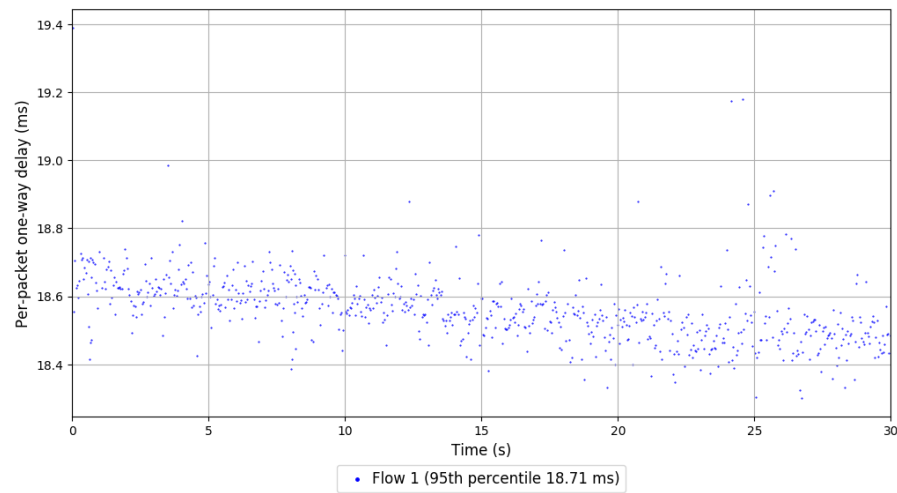
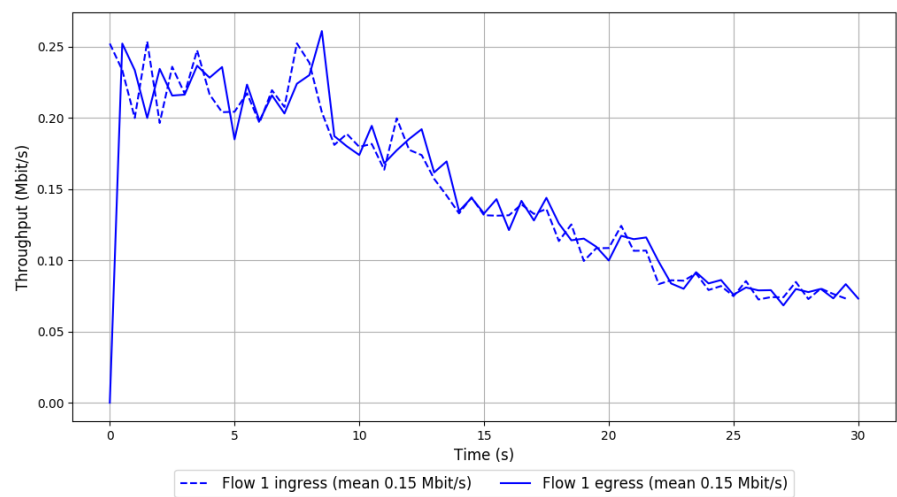


Run 4: Statistics of SCReAM

Start at: 2018-08-27 21:48:14  
End at: 2018-08-27 21:48:44  
Local clock offset: -0.015 ms  
Remote clock offset: -2.438 ms

# Below is generated by plot.py at 2018-08-27 23:56:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 18.712 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 18.712 ms  
Loss rate: 0.39%

Run 4: Report of SReAM — Data Link

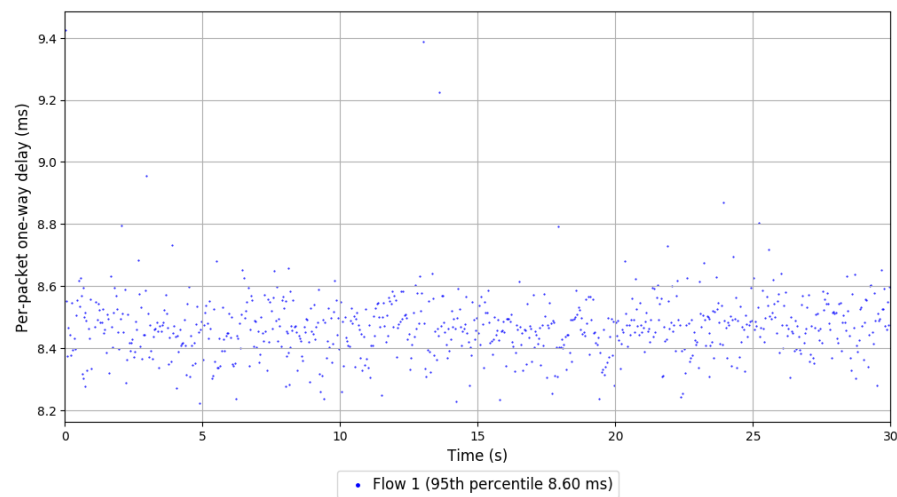
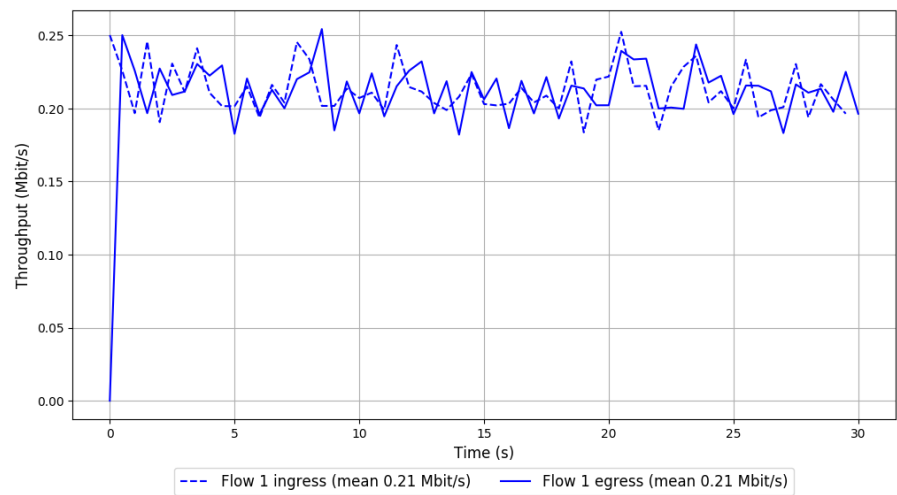


Run 5: Statistics of SCReAM

Start at: 2018-08-27 22:07:06  
End at: 2018-08-27 22:07:36  
Local clock offset: 0.817 ms  
Remote clock offset: -2.931 ms

# Below is generated by plot.py at 2018-08-27 23:56:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 8.604 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 8.604 ms  
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

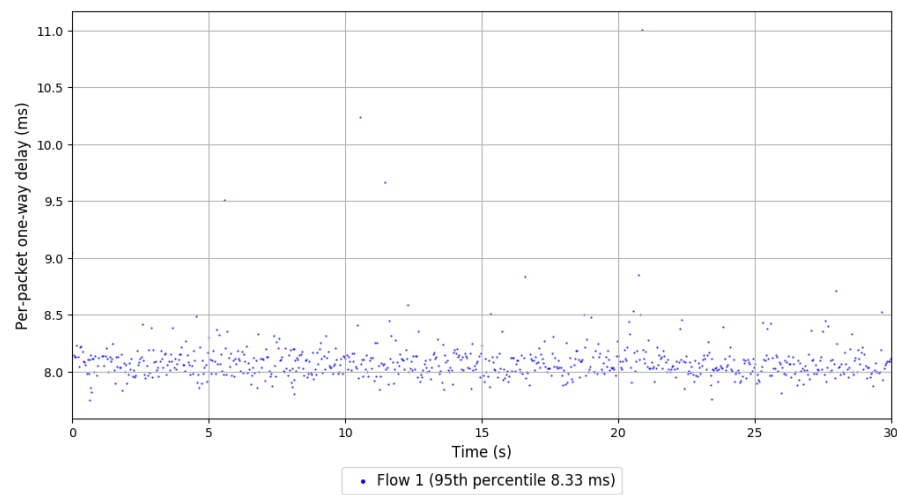
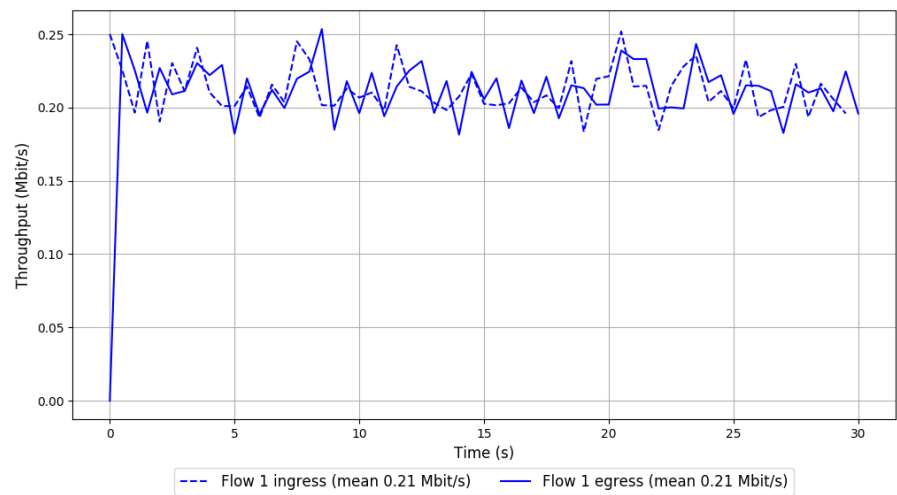


Run 6: Statistics of SCReAM

Start at: 2018-08-27 22:25:54  
End at: 2018-08-27 22:26:24  
Local clock offset: 2.361 ms  
Remote clock offset: -2.471 ms

# Below is generated by plot.py at 2018-08-27 23:56:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 8.327 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 8.327 ms  
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

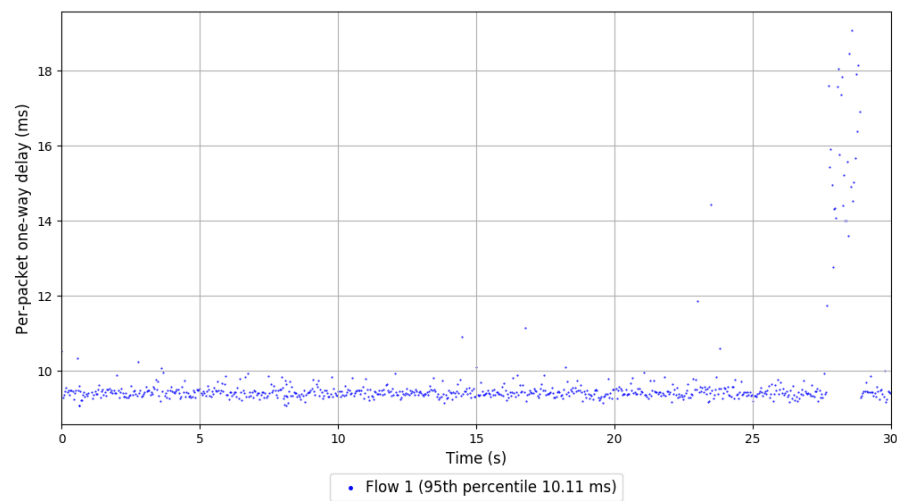
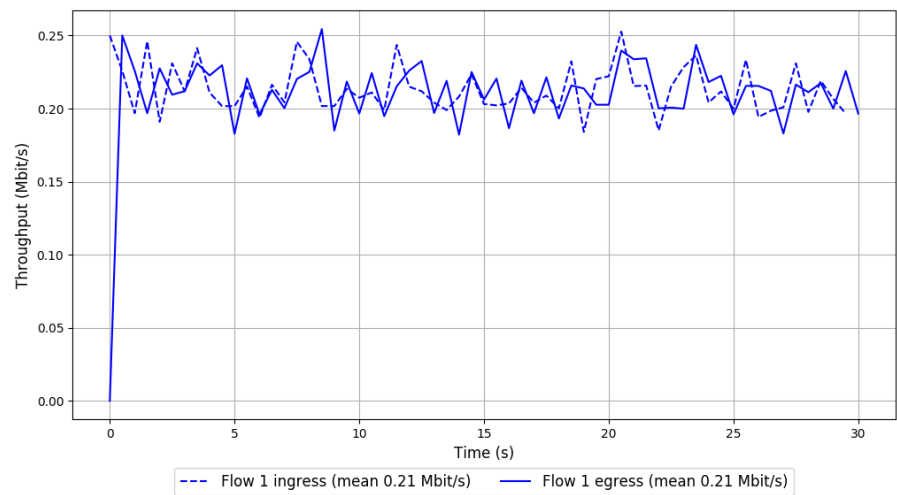


Run 7: Statistics of SCReAM

Start at: 2018-08-27 22:44:39  
End at: 2018-08-27 22:45:09  
Local clock offset: 0.631 ms  
Remote clock offset: -2.711 ms

# Below is generated by plot.py at 2018-08-27 23:56:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 10.110 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 10.110 ms  
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

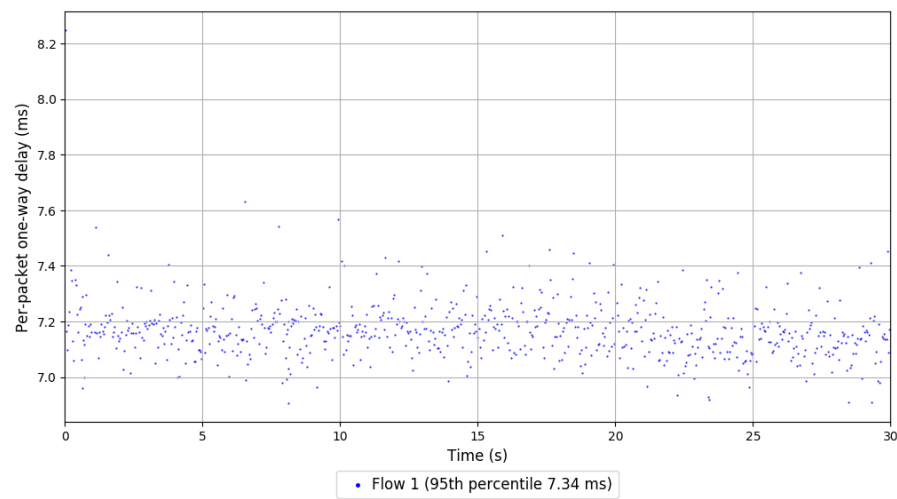
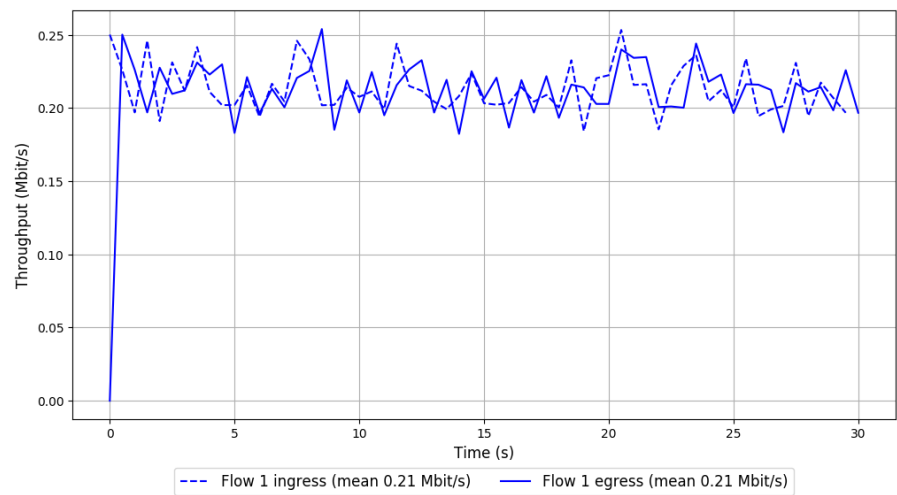


Run 8: Statistics of SReAM

Start at: 2018-08-27 23:03:21  
End at: 2018-08-27 23:03:52  
Local clock offset: 2.09 ms  
Remote clock offset: -2.437 ms

# Below is generated by plot.py at 2018-08-27 23:56:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 7.336 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 7.336 ms  
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

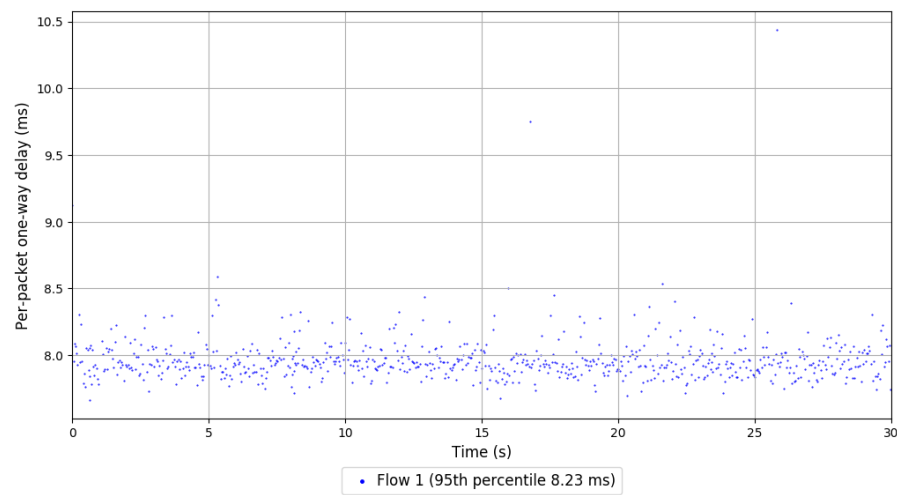
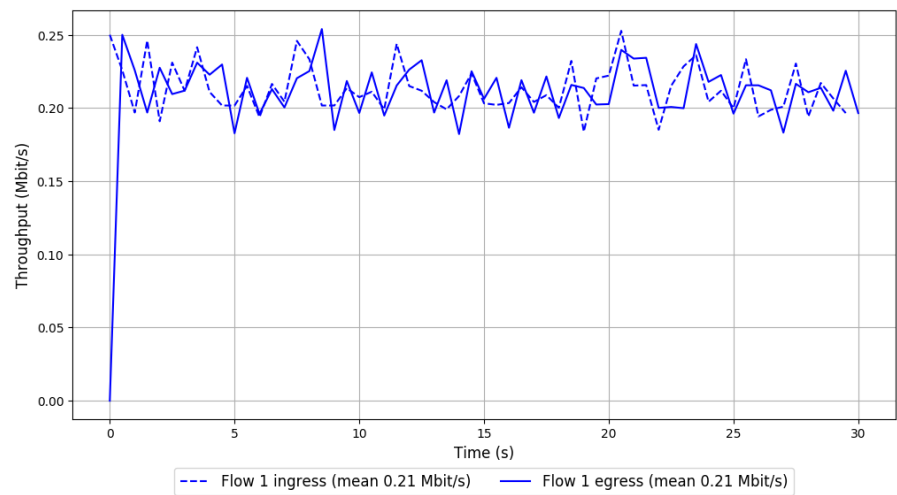


Run 9: Statistics of SReAM

Start at: 2018-08-27 23:22:06  
End at: 2018-08-27 23:22:36  
Local clock offset: 1.732 ms  
Remote clock offset: -2.705 ms

# Below is generated by plot.py at 2018-08-27 23:56:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 8.230 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 8.230 ms  
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-08-27 23:40:54

End at: 2018-08-27 23:41:24

Local clock offset: 1.609 ms

Remote clock offset: -3.017 ms

# Below is generated by plot.py at 2018-08-27 23:56:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 6.852 ms

Loss rate: 0.00%

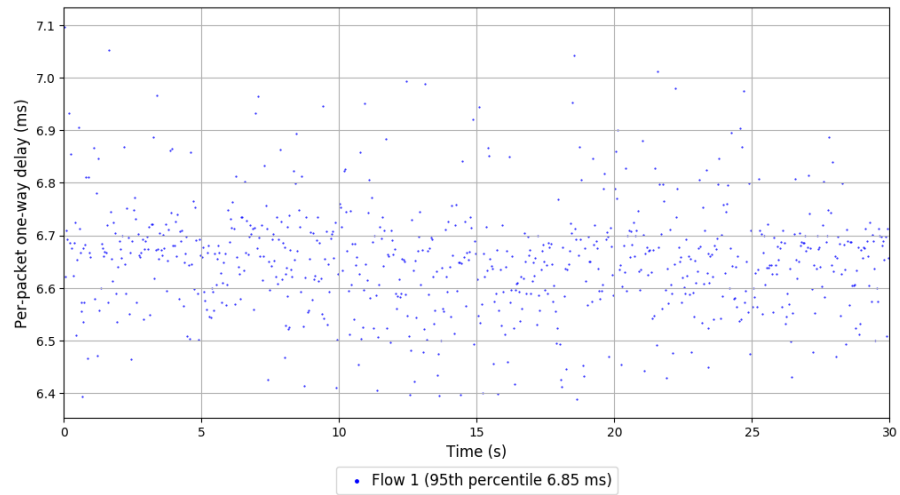
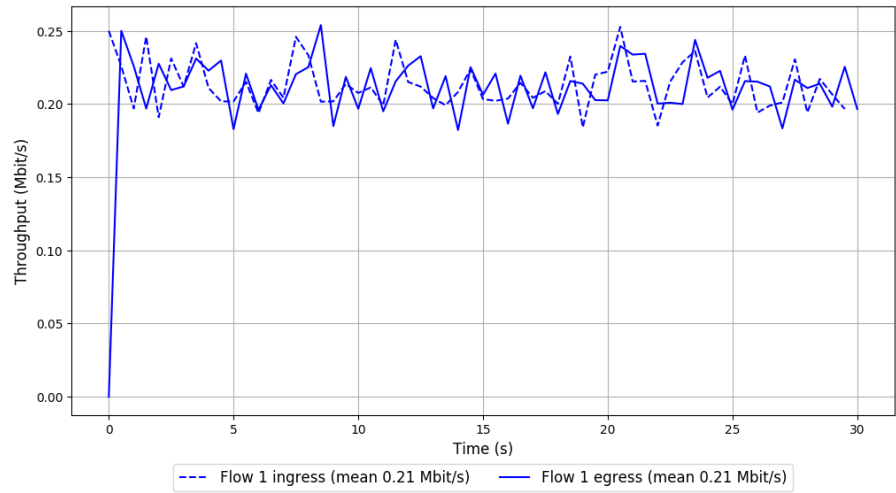
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 6.852 ms

Loss rate: 0.00%

# Run 10: Report of SCReAM — Data Link



Run 1: Statistics of Sprout

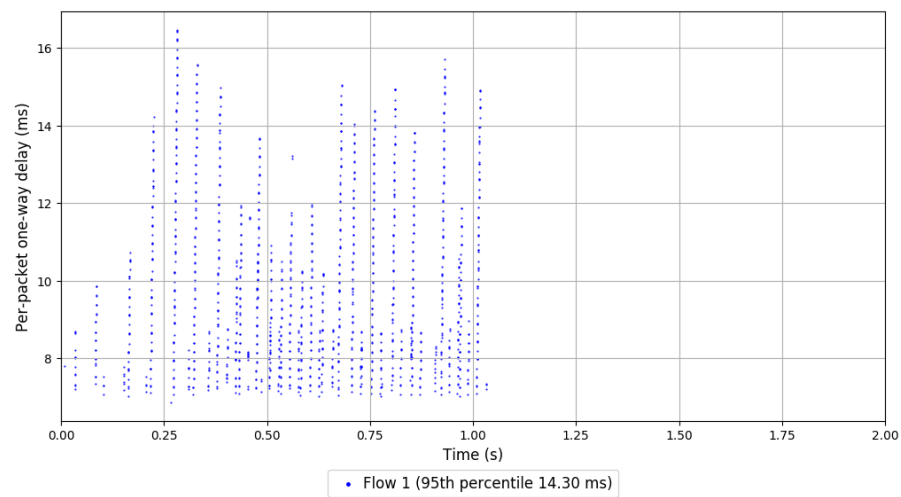
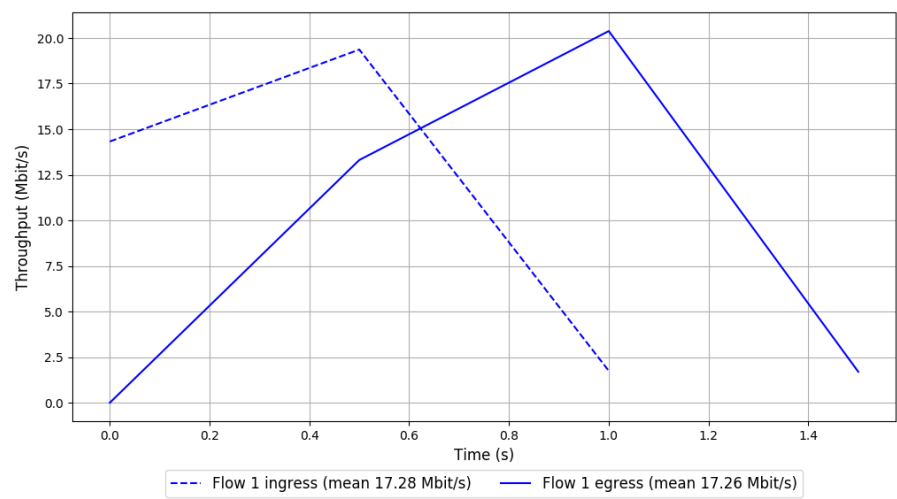
Start at: 2018-08-27 20:55:23

End at: 2018-08-27 20:55:53

Local clock offset: 3.244 ms

Remote clock offset: -2.633 ms

Run 1: Report of Sprout — Data Link

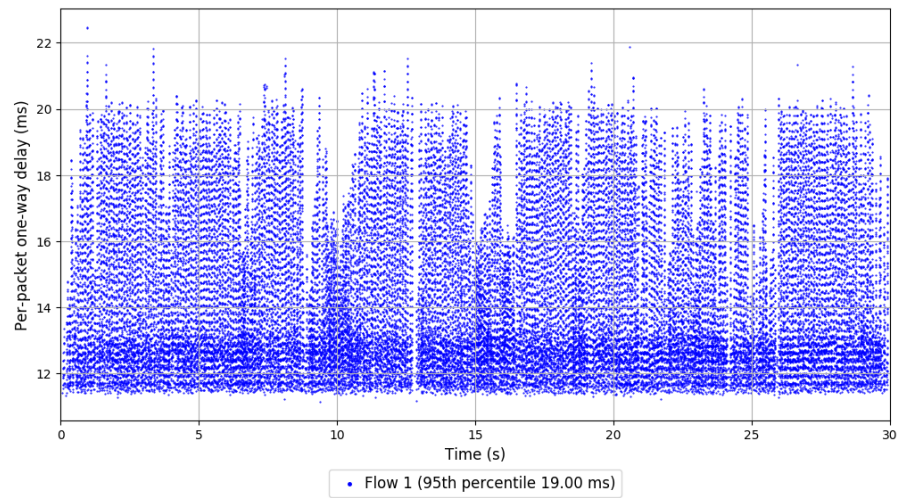
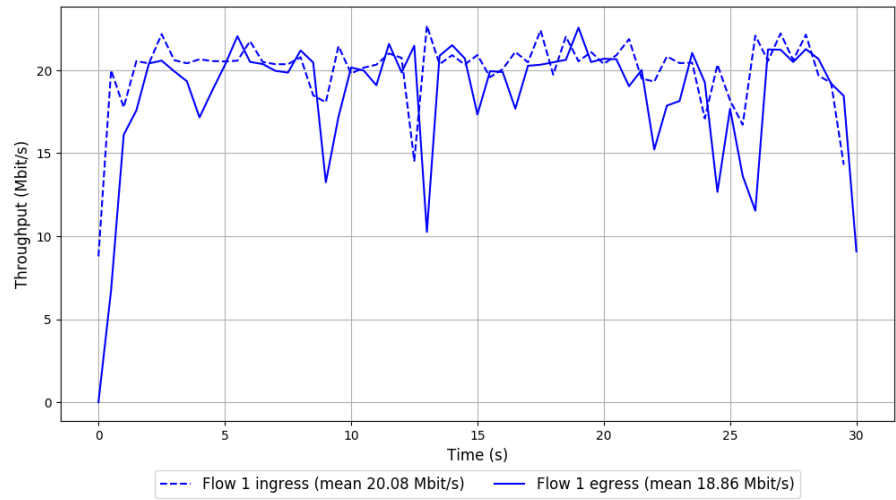


Run 2: Statistics of Sprout

Start at: 2018-08-27 21:14:04  
End at: 2018-08-27 21:14:34  
Local clock offset: -0.429 ms  
Remote clock offset: -2.536 ms

# Below is generated by plot.py at 2018-08-27 23:56:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 18.86 Mbit/s  
95th percentile per-packet one-way delay: 19.000 ms  
Loss rate: 6.20%  
-- Flow 1:  
Average throughput: 18.86 Mbit/s  
95th percentile per-packet one-way delay: 19.000 ms  
Loss rate: 6.20%

## Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

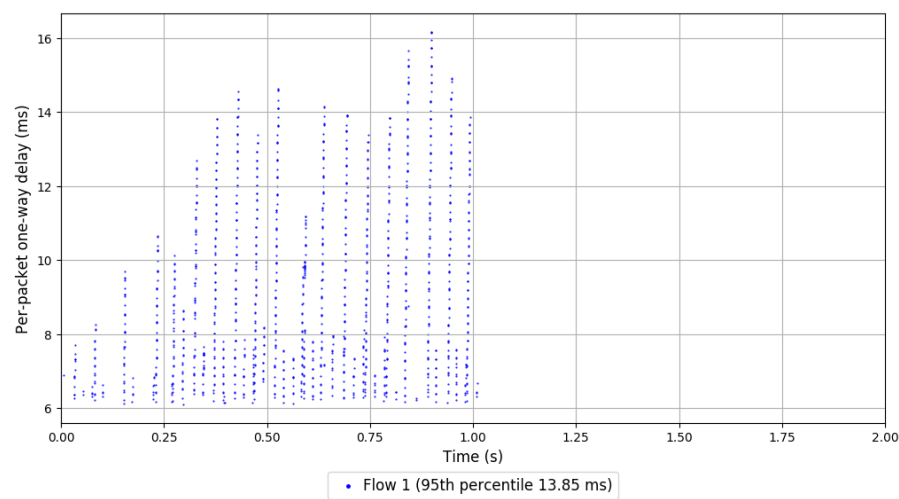
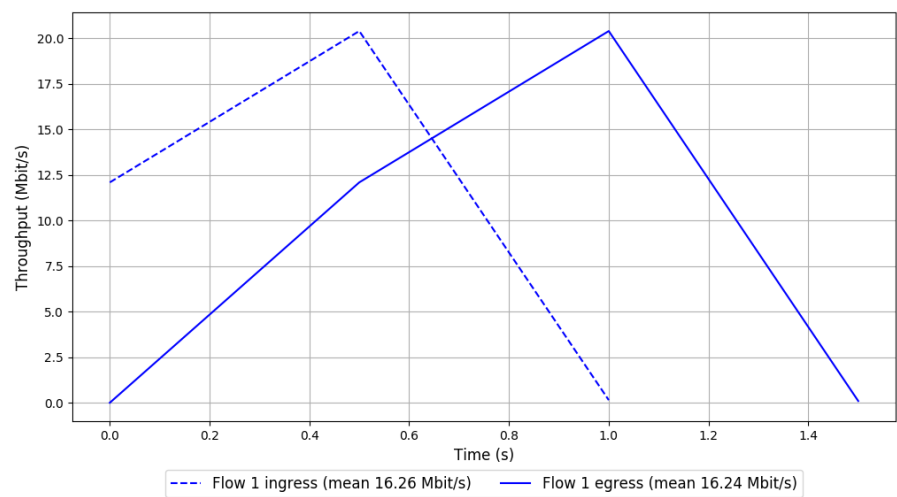
Start at: 2018-08-27 21:32:44

End at: 2018-08-27 21:33:14

Local clock offset: 4.511 ms

Remote clock offset: -2.884 ms

Run 3: Report of Sprout — Data Link

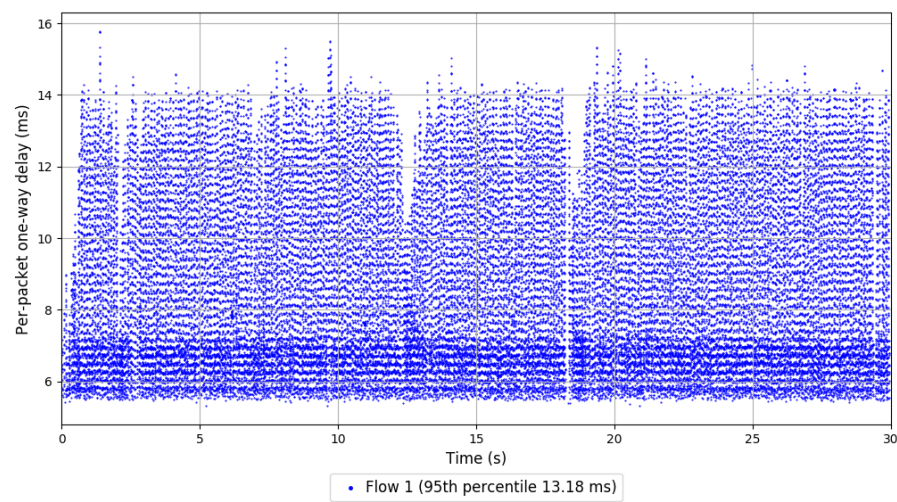
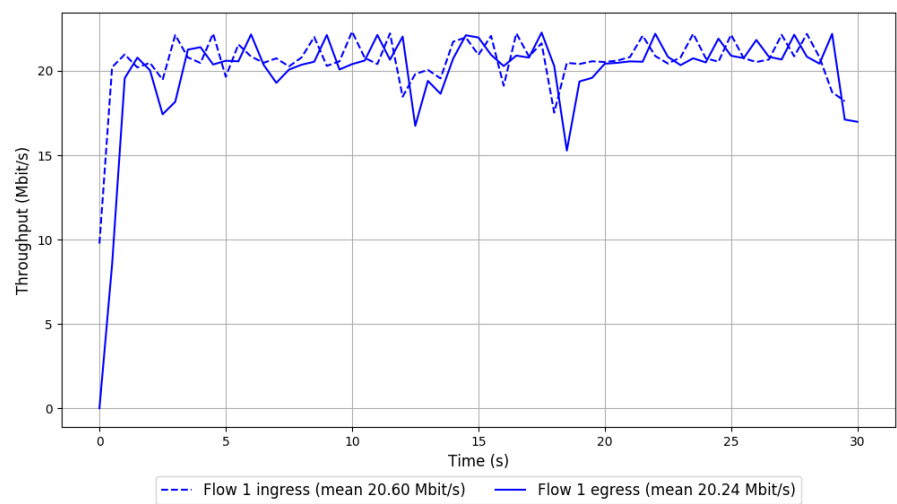


Run 4: Statistics of Sprout

Start at: 2018-08-27 21:51:31  
End at: 2018-08-27 21:52:01  
Local clock offset: 3.166 ms  
Remote clock offset: -2.963 ms

# Below is generated by plot.py at 2018-08-27 23:56:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 20.24 Mbit/s  
95th percentile per-packet one-way delay: 13.182 ms  
Loss rate: 1.76%  
-- Flow 1:  
Average throughput: 20.24 Mbit/s  
95th percentile per-packet one-way delay: 13.182 ms  
Loss rate: 1.76%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

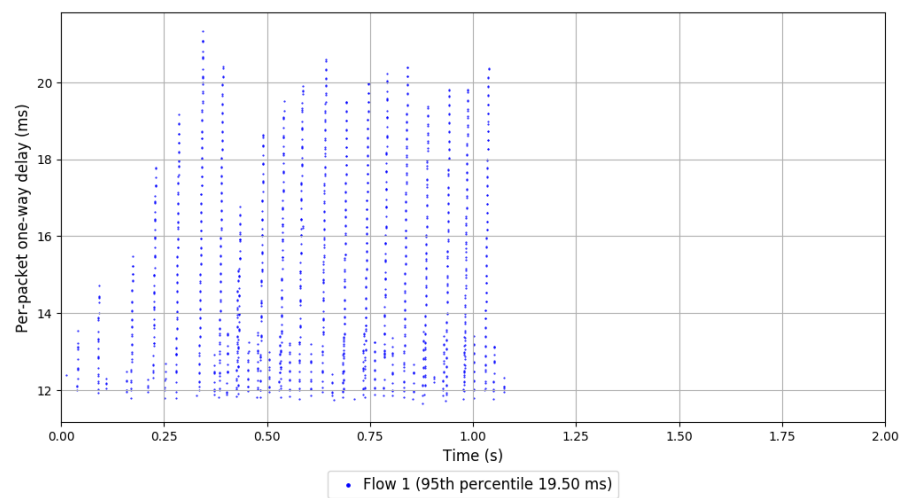
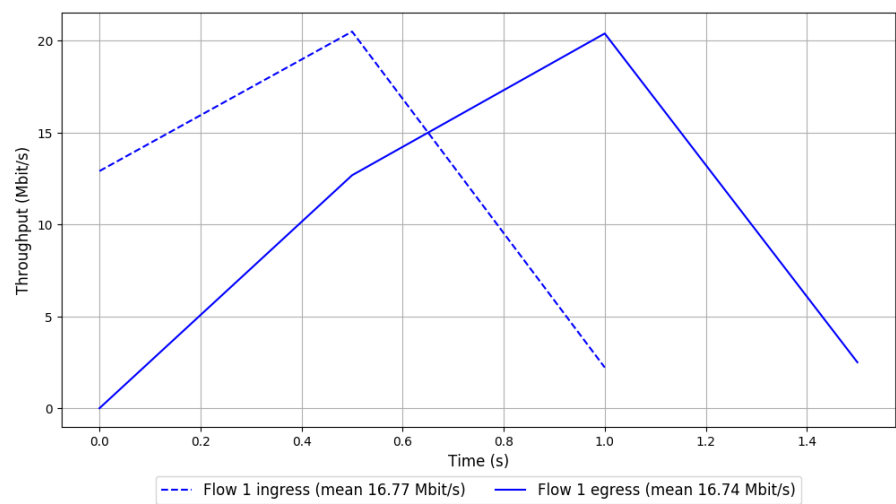
Start at: 2018-08-27 22:10:26

End at: 2018-08-27 22:10:56

Local clock offset: -1.448 ms

Remote clock offset: -1.978 ms

Run 5: Report of Sprout — Data Link

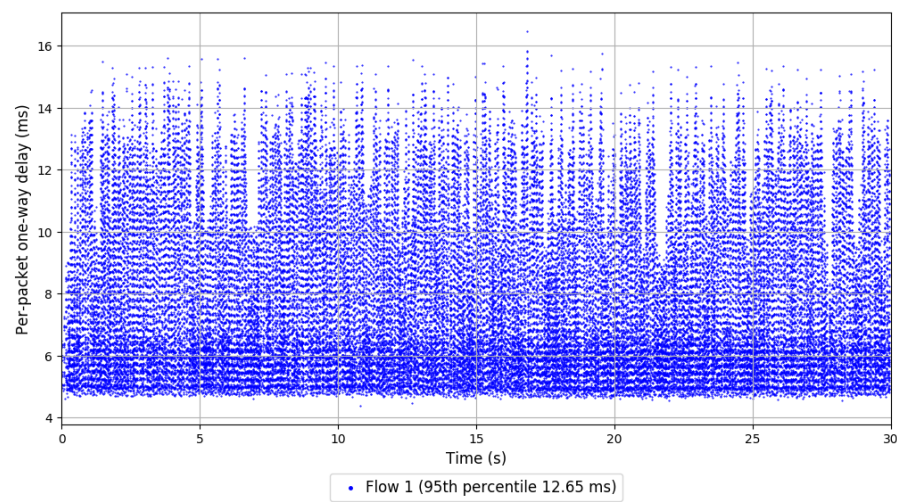
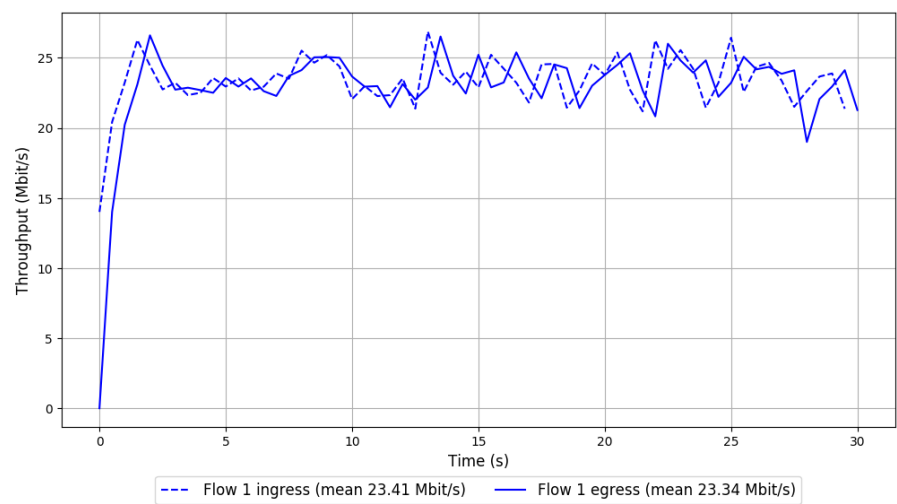


Run 6: Statistics of Sprout

Start at: 2018-08-27 22:29:12  
End at: 2018-08-27 22:29:42  
Local clock offset: 4.326 ms  
Remote clock offset: -2.788 ms

# Below is generated by plot.py at 2018-08-27 23:56:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 23.34 Mbit/s  
95th percentile per-packet one-way delay: 12.654 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 23.34 Mbit/s  
95th percentile per-packet one-way delay: 12.654 ms  
Loss rate: 0.32%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

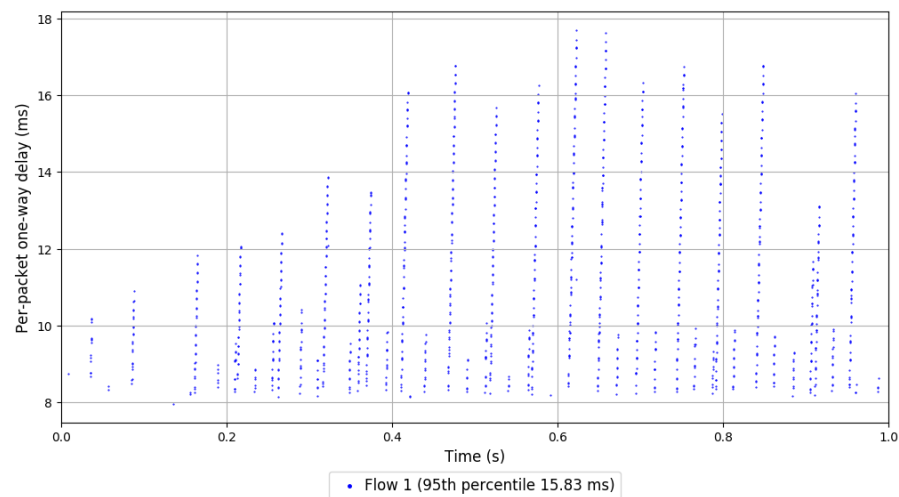
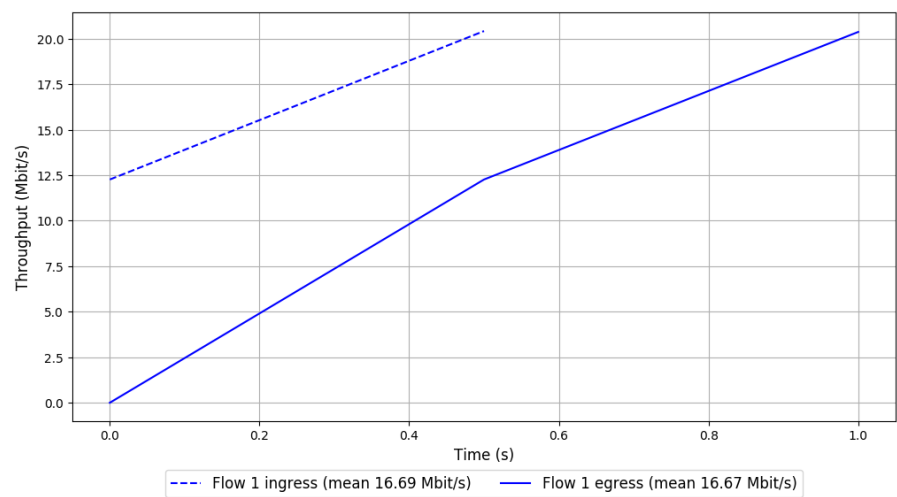
Start at: 2018-08-27 22:47:56

End at: 2018-08-27 22:48:26

Local clock offset: 2.002 ms

Remote clock offset: -2.407 ms

Run 7: Report of Sprout — Data Link

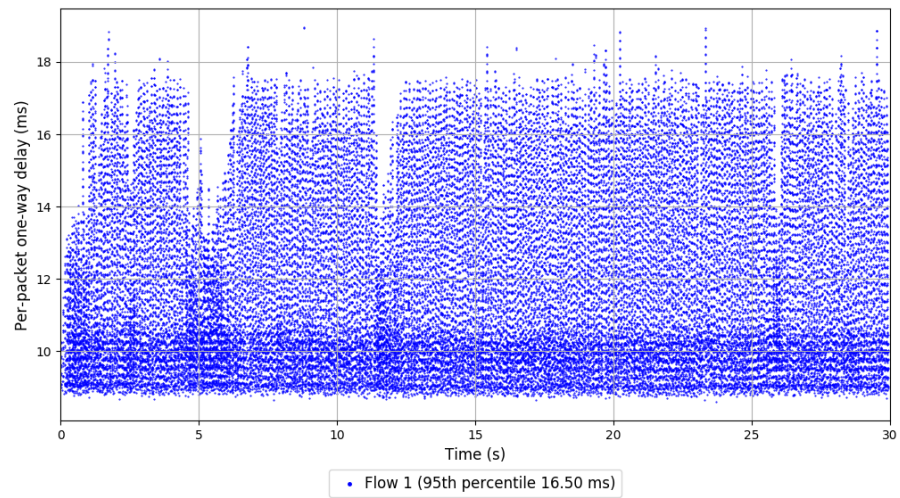
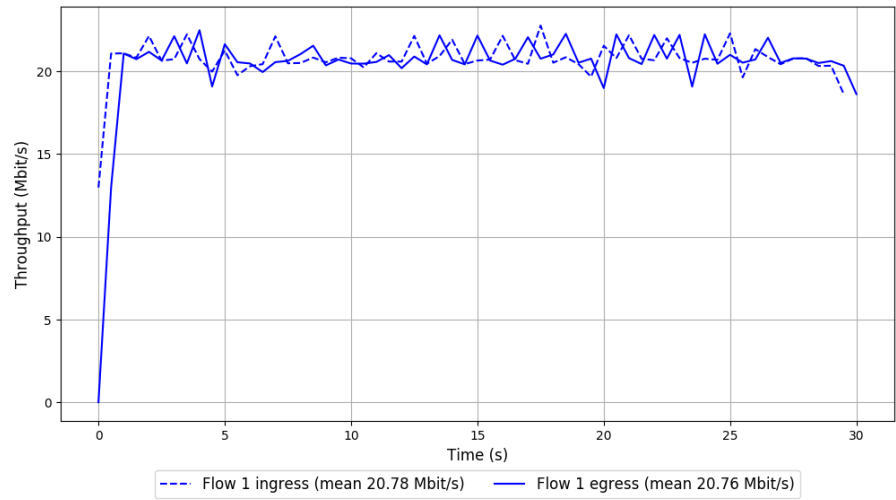


Run 8: Statistics of Sprout

Start at: 2018-08-27 23:06:38  
End at: 2018-08-27 23:07:08  
Local clock offset: 1.098 ms  
Remote clock offset: -2.524 ms

# Below is generated by plot.py at 2018-08-27 23:56:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 20.76 Mbit/s  
95th percentile per-packet one-way delay: 16.502 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 20.76 Mbit/s  
95th percentile per-packet one-way delay: 16.502 ms  
Loss rate: 0.08%

## Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

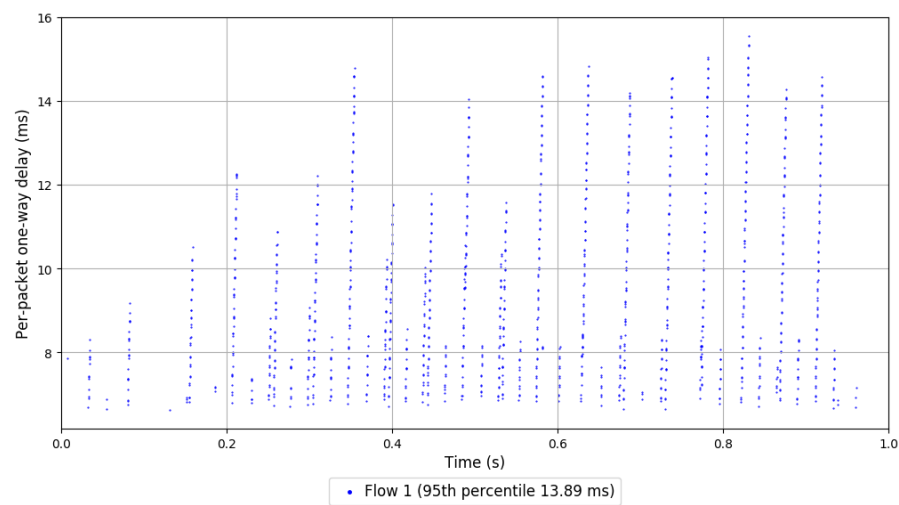
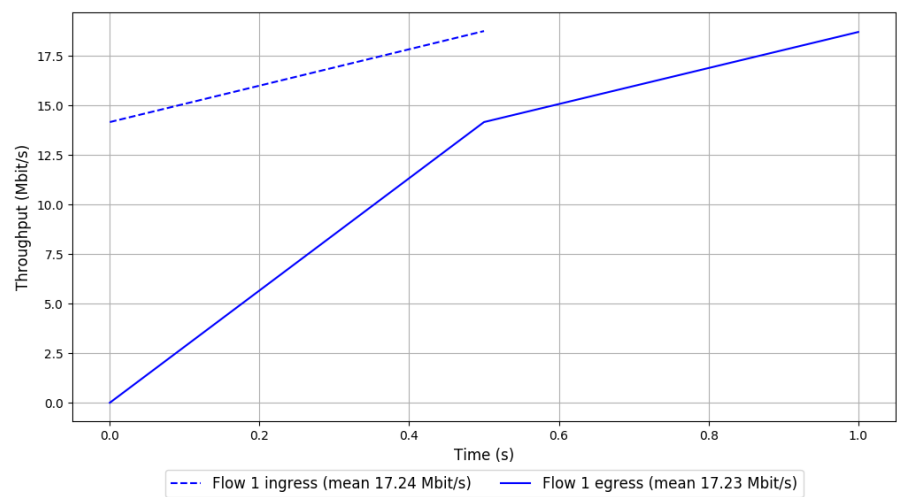
Start at: 2018-08-27 23:25:24

End at: 2018-08-27 23:25:54

Local clock offset: 1.277 ms

Remote clock offset: -3.331 ms

Run 9: Report of Sprout — Data Link

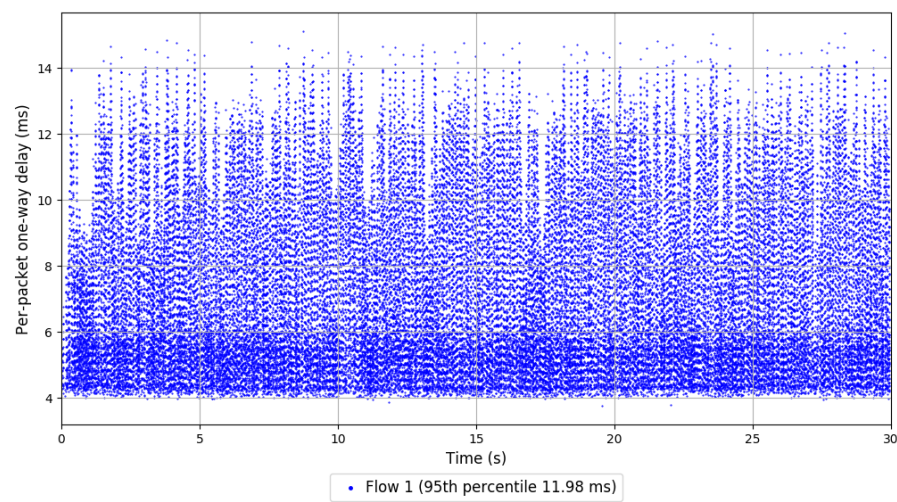
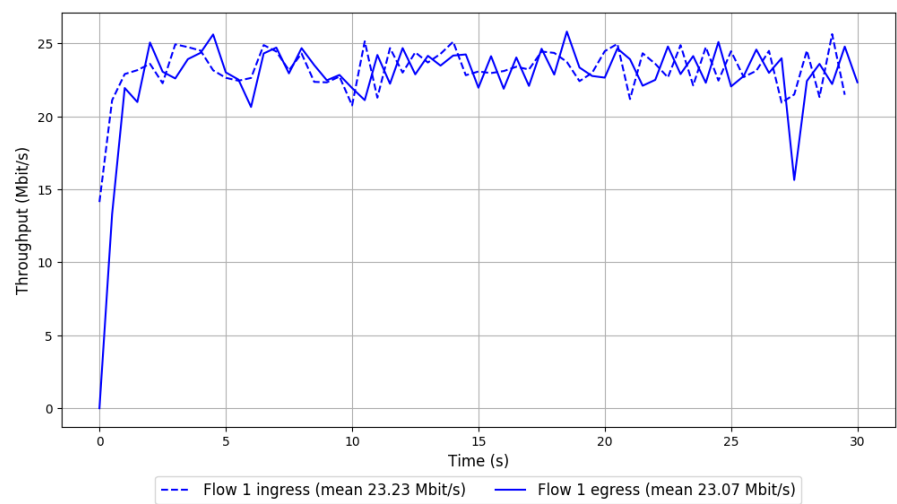


Run 10: Statistics of Sprout

Start at: 2018-08-27 23:44:11  
End at: 2018-08-27 23:44:41  
Local clock offset: 3.412 ms  
Remote clock offset: -3.674 ms

# Below is generated by plot.py at 2018-08-27 23:56:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 23.07 Mbit/s  
95th percentile per-packet one-way delay: 11.984 ms  
Loss rate: 0.67%  
-- Flow 1:  
Average throughput: 23.07 Mbit/s  
95th percentile per-packet one-way delay: 11.984 ms  
Loss rate: 0.67%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

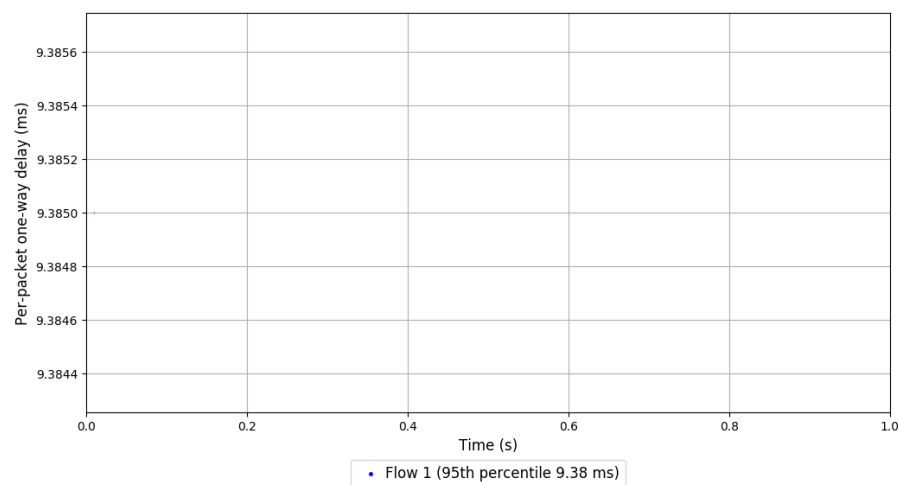
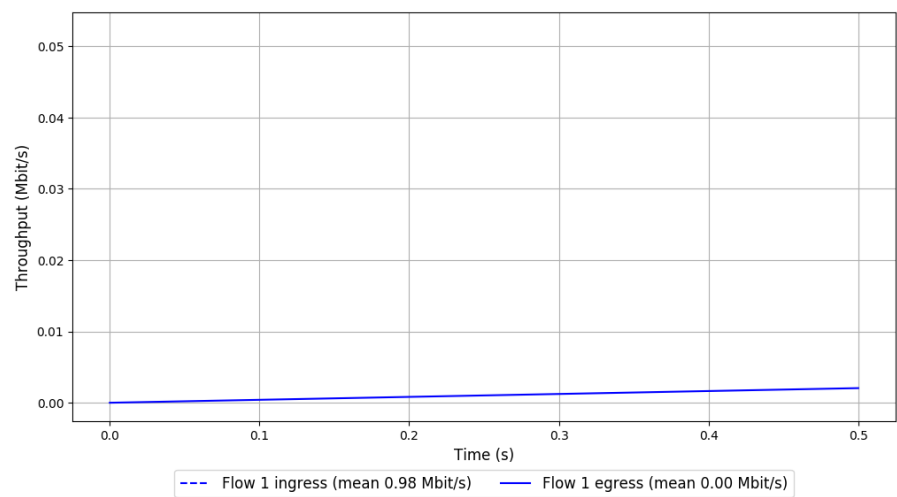
Start at: 2018-08-27 20:39:47

End at: 2018-08-27 20:40:17

Local clock offset: 0.387 ms

Remote clock offset: -2.73 ms

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-08-27 20:58:44

End at: 2018-08-27 20:59:14

Local clock offset: 2.712 ms

Remote clock offset: -2.72 ms

# Below is generated by plot.py at 2018-08-27 23:56:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 9.56 Mbit/s

95th percentile per-packet one-way delay: 8.219 ms

Loss rate: 82.53%

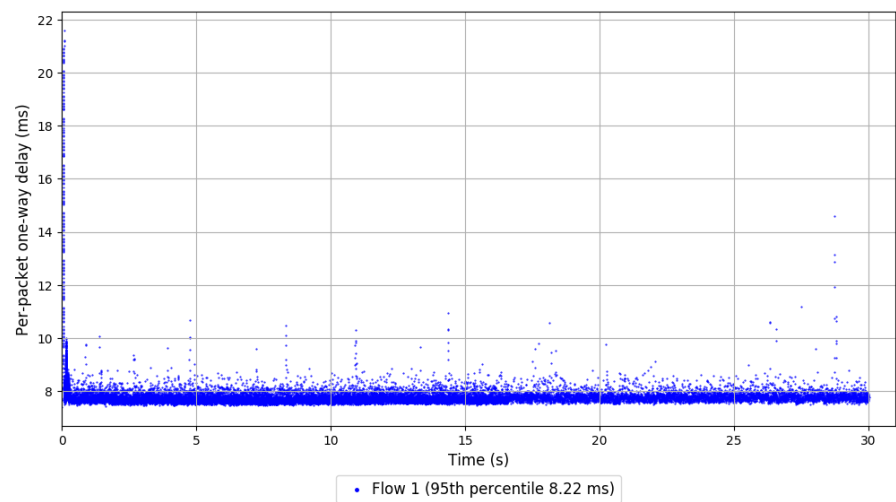
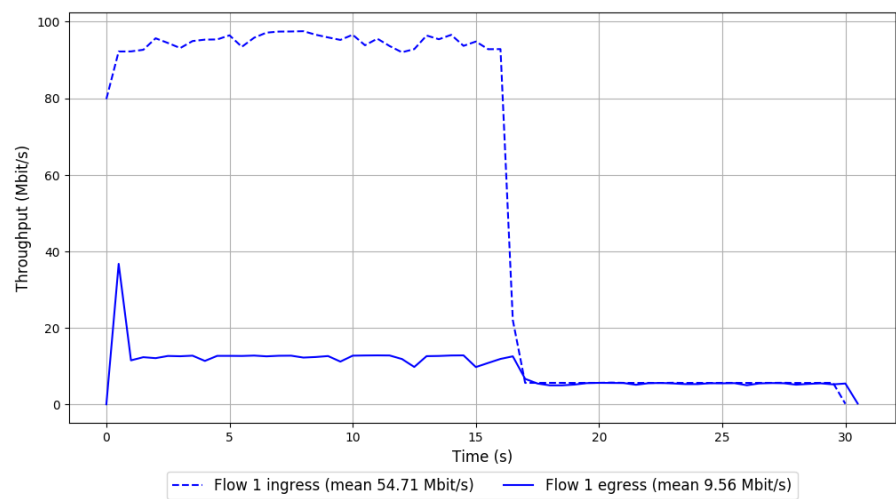
-- Flow 1:

Average throughput: 9.56 Mbit/s

95th percentile per-packet one-way delay: 8.219 ms

Loss rate: 82.53%

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



Run 3: Statistics of TaoVA-100x

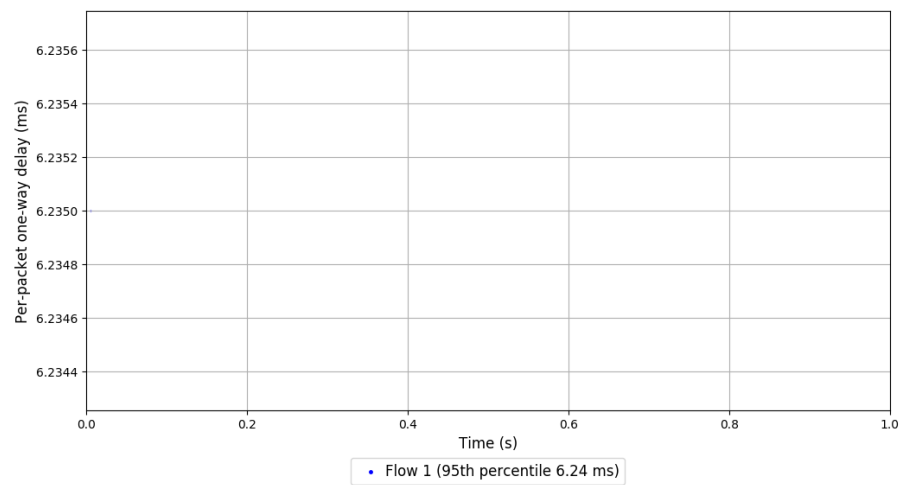
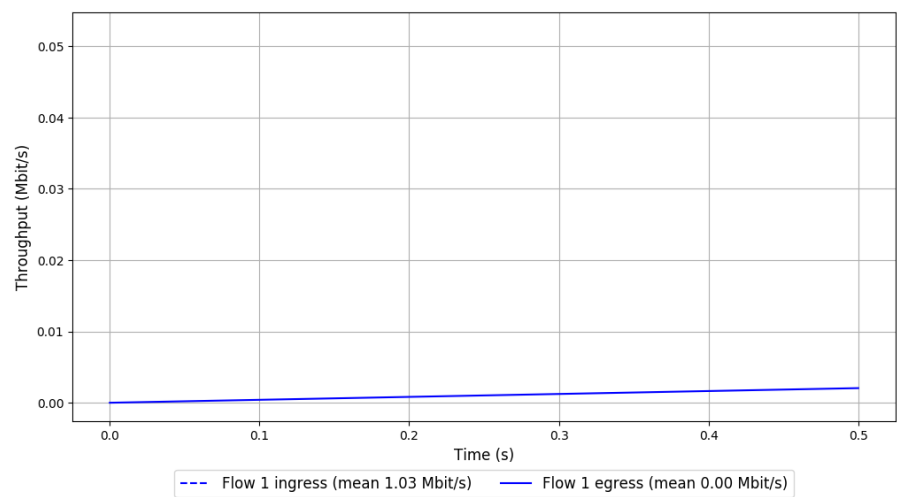
Start at: 2018-08-27 21:17:20

End at: 2018-08-27 21:17:50

Local clock offset: 4.76 ms

Remote clock offset: -2.636 ms

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-08-27 21:36:00

End at: 2018-08-27 21:36:30

Local clock offset: 1.8 ms

Remote clock offset: -2.126 ms

# Below is generated by plot.py at 2018-08-27 23:56:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 9.94 Mbit/s

95th percentile per-packet one-way delay: 9.486 ms

Loss rate: 81.95%

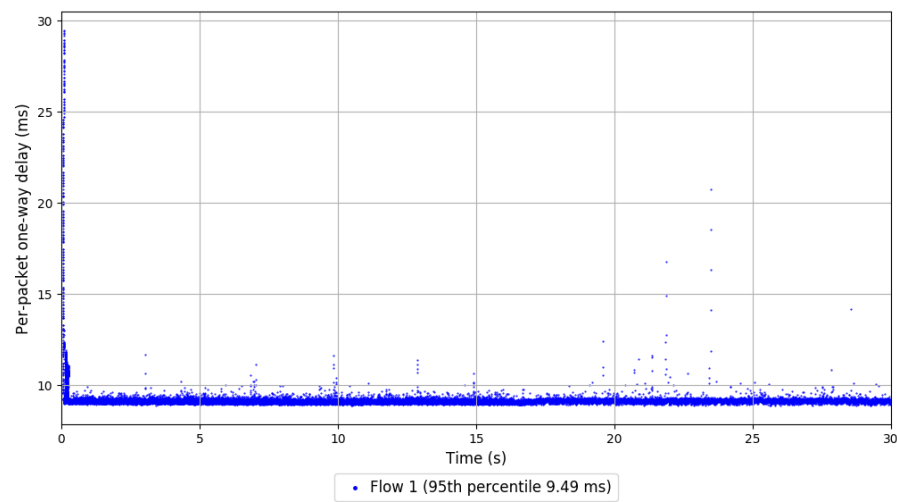
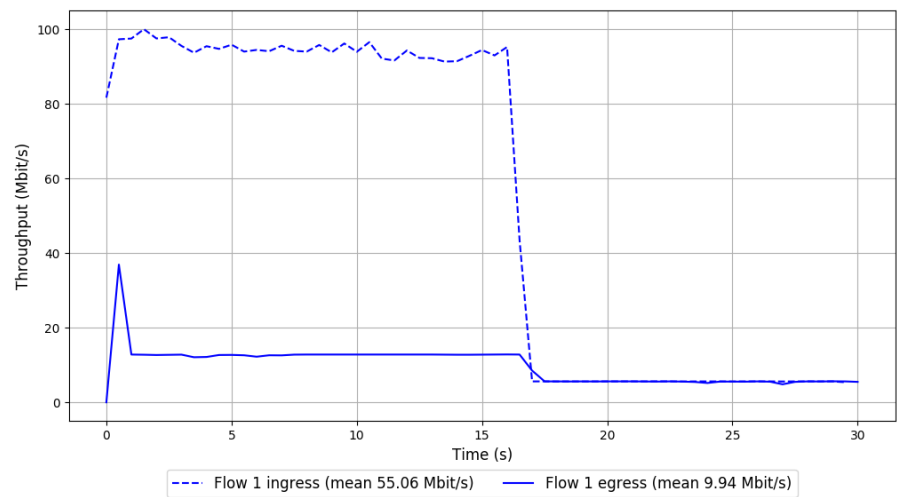
-- Flow 1:

Average throughput: 9.94 Mbit/s

95th percentile per-packet one-way delay: 9.486 ms

Loss rate: 81.95%

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



Run 5: Statistics of TaoVA-100x

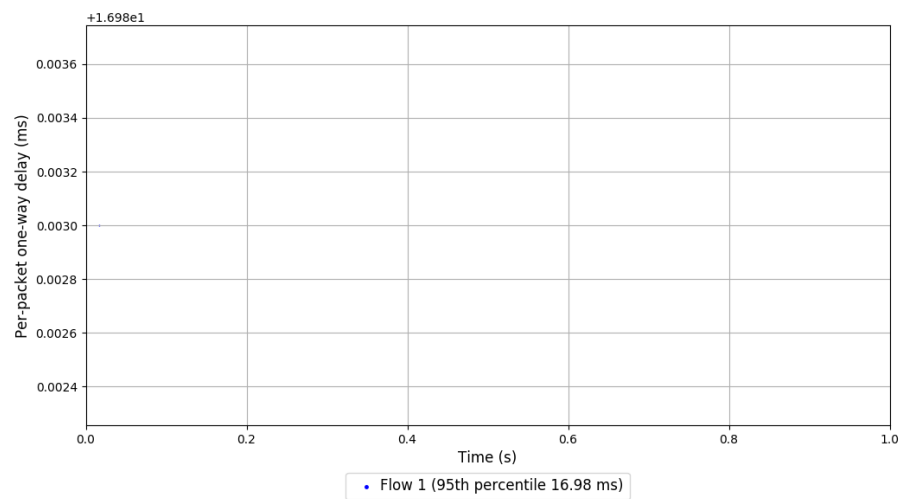
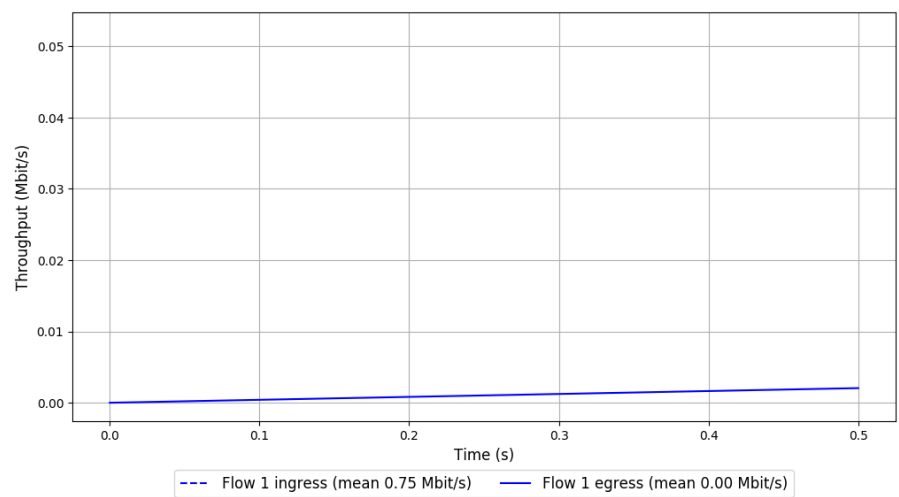
Start at: 2018-08-27 21:54:49

End at: 2018-08-27 21:55:19

Local clock offset: 1.129 ms

Remote clock offset: -2.762 ms

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-08-27 22:13:43

End at: 2018-08-27 22:14:13

Local clock offset: 0.924 ms

Remote clock offset: -3.155 ms

# Below is generated by plot.py at 2018-08-27 23:56:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 10.14 Mbit/s

95th percentile per-packet one-way delay: 8.903 ms

Loss rate: 81.63%

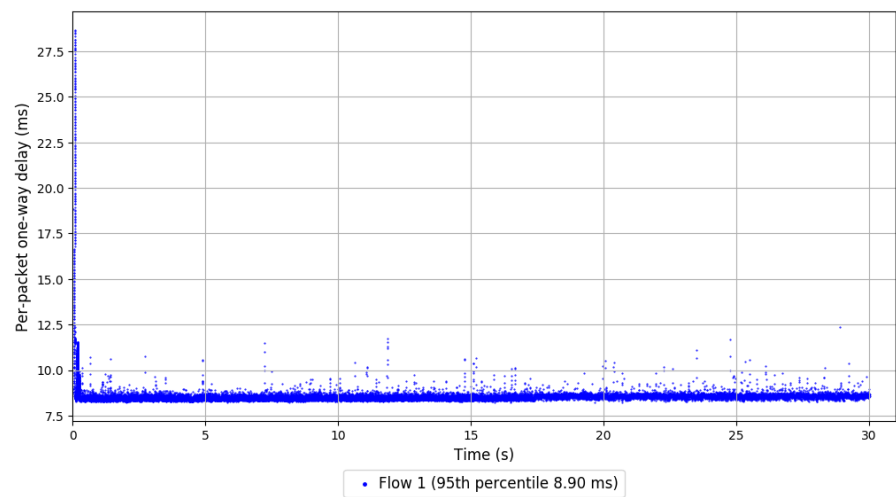
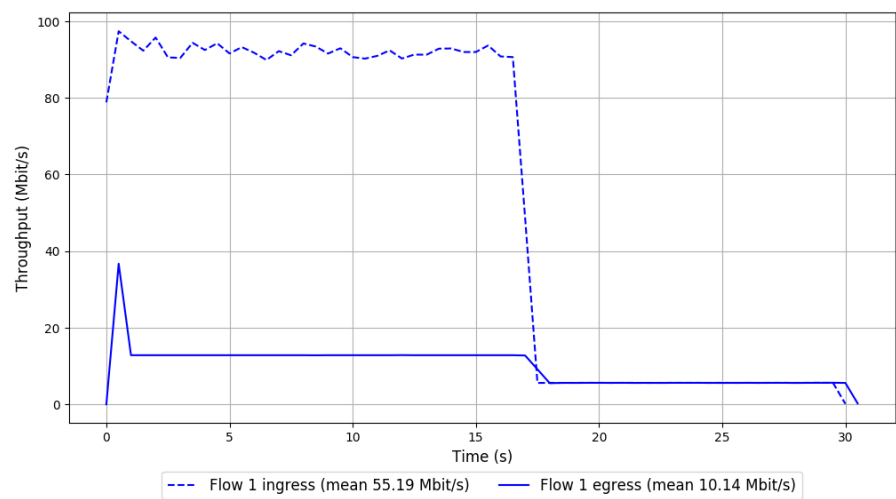
-- Flow 1:

Average throughput: 10.14 Mbit/s

95th percentile per-packet one-way delay: 8.903 ms

Loss rate: 81.63%

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



Run 7: Statistics of TaoVA-100x

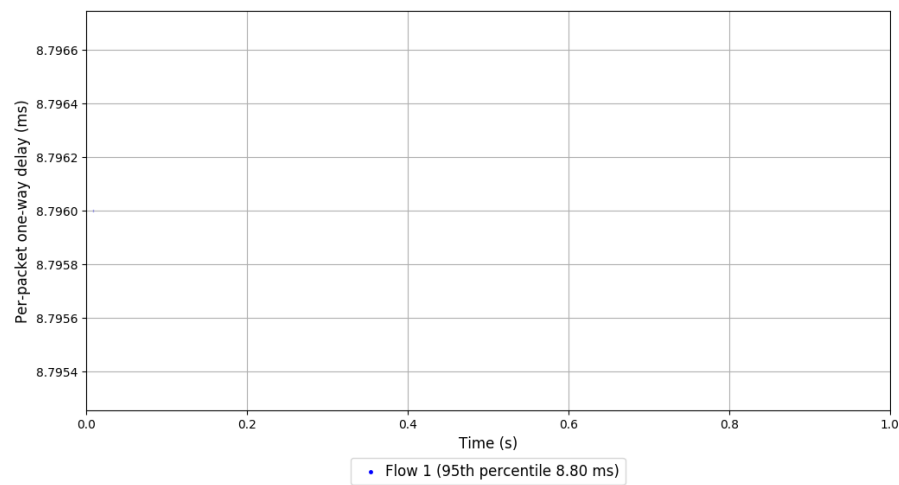
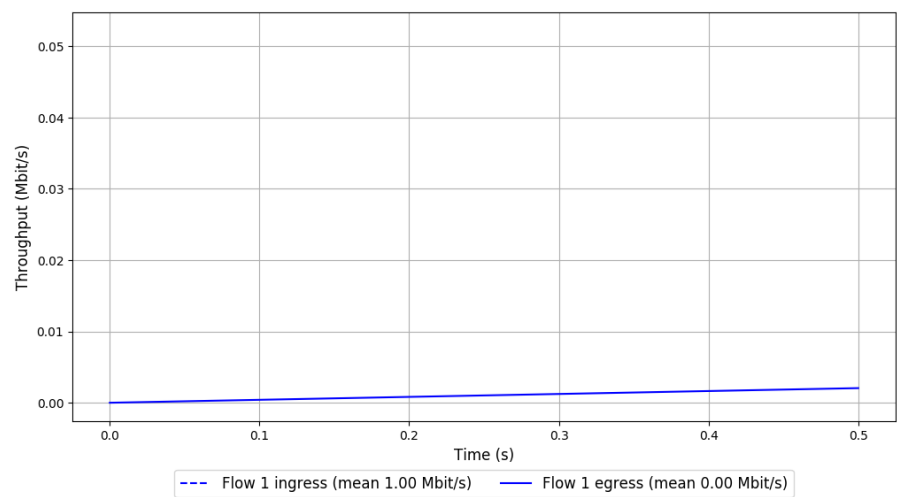
Start at: 2018-08-27 22:32:28

End at: 2018-08-27 22:32:58

Local clock offset: 1.817 ms

Remote clock offset: -2.935 ms

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

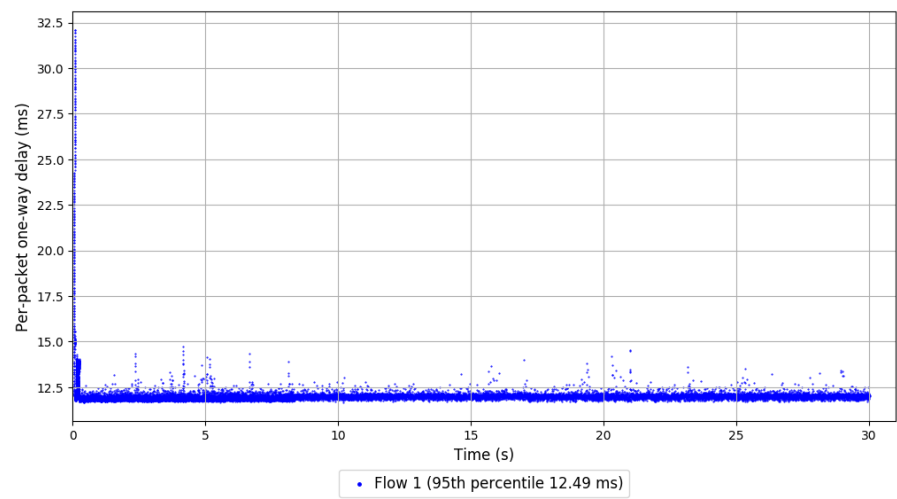
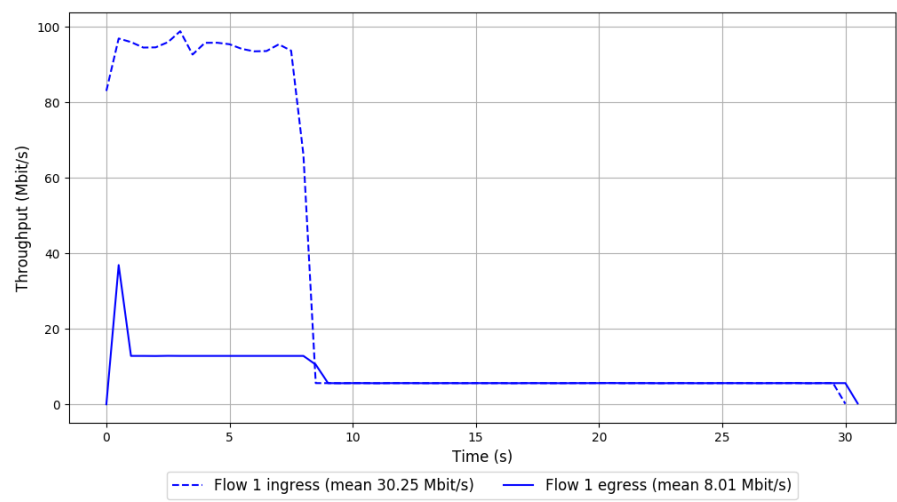


Run 8: Statistics of TaoVA-100x

Start at: 2018-08-27 22:51:11  
End at: 2018-08-27 22:51:41  
Local clock offset: -1.743 ms  
Remote clock offset: -2.535 ms

# Below is generated by plot.py at 2018-08-27 23:56:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 8.01 Mbit/s  
95th percentile per-packet one-way delay: 12.491 ms  
Loss rate: 73.53%  
-- Flow 1:  
Average throughput: 8.01 Mbit/s  
95th percentile per-packet one-way delay: 12.491 ms  
Loss rate: 73.53%

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



Run 9: Statistics of TaoVA-100x

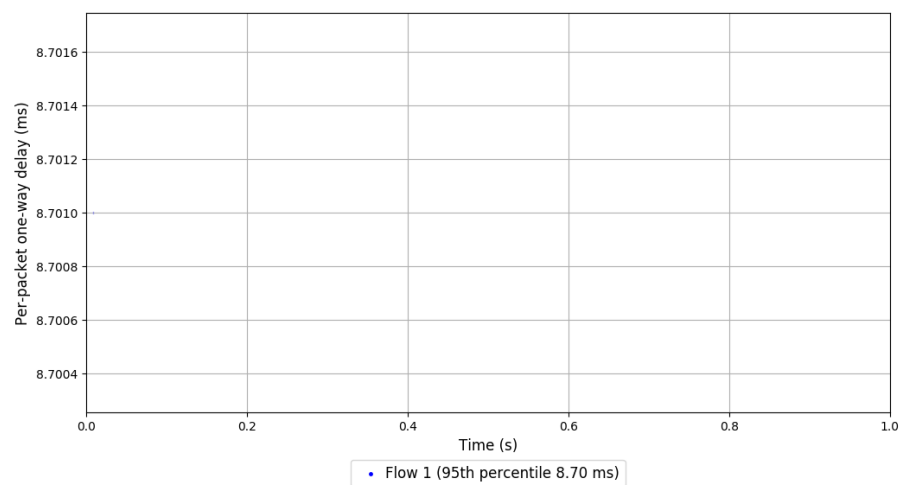
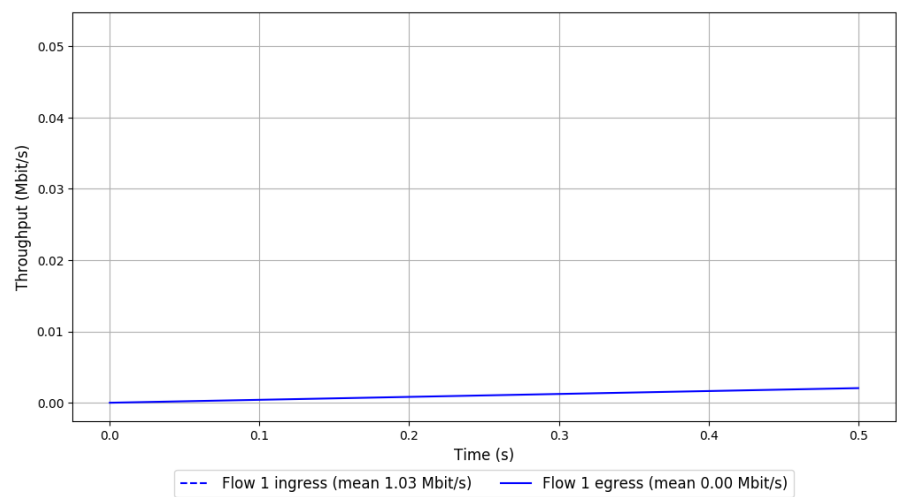
Start at: 2018-08-27 23:09:54

End at: 2018-08-27 23:10:24

Local clock offset: 1.049 ms

Remote clock offset: -2.51 ms

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-08-27 23:28:40

End at: 2018-08-27 23:29:10

Local clock offset: 1.044 ms

Remote clock offset: -2.449 ms

# Below is generated by plot.py at 2018-08-27 23:56:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 9.740 ms

Loss rate: 73.70%

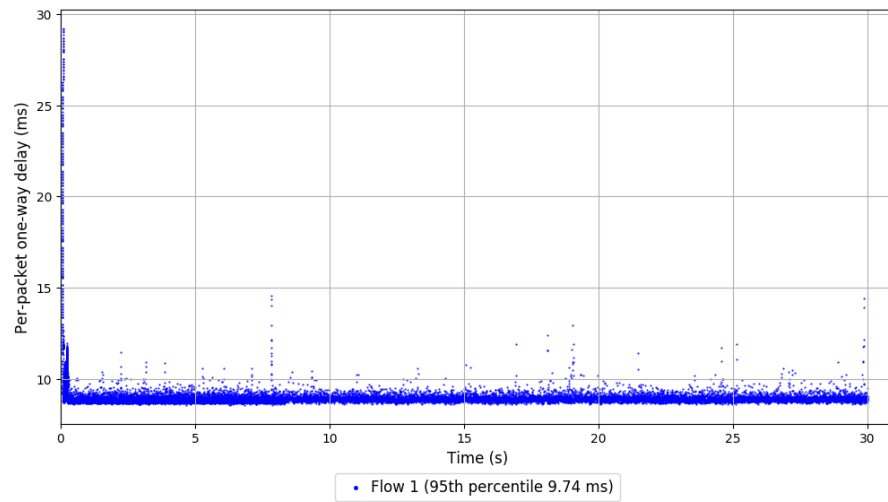
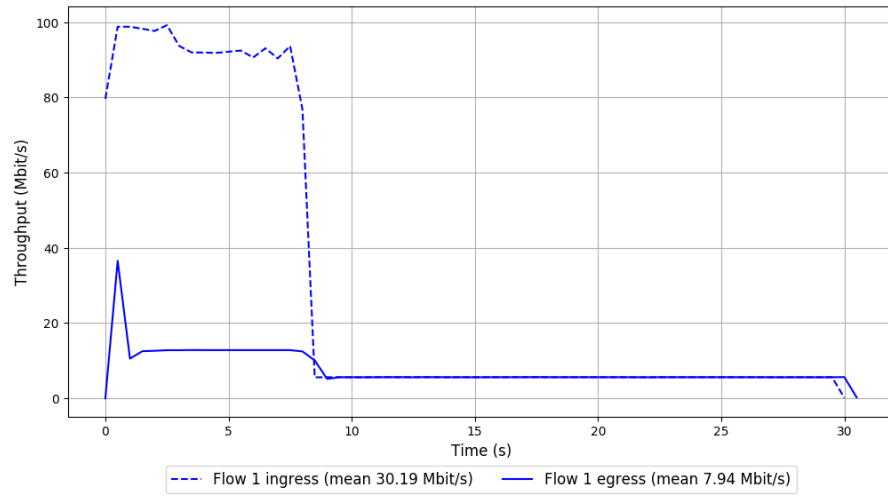
-- Flow 1:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 9.740 ms

Loss rate: 73.70%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-08-27 20:40:52

End at: 2018-08-27 20:41:22

Local clock offset: 2.759 ms

Remote clock offset: -3.08 ms

# Below is generated by plot.py at 2018-08-27 23:56:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 9.72 Mbit/s

95th percentile per-packet one-way delay: 17.637 ms

Loss rate: 0.88%

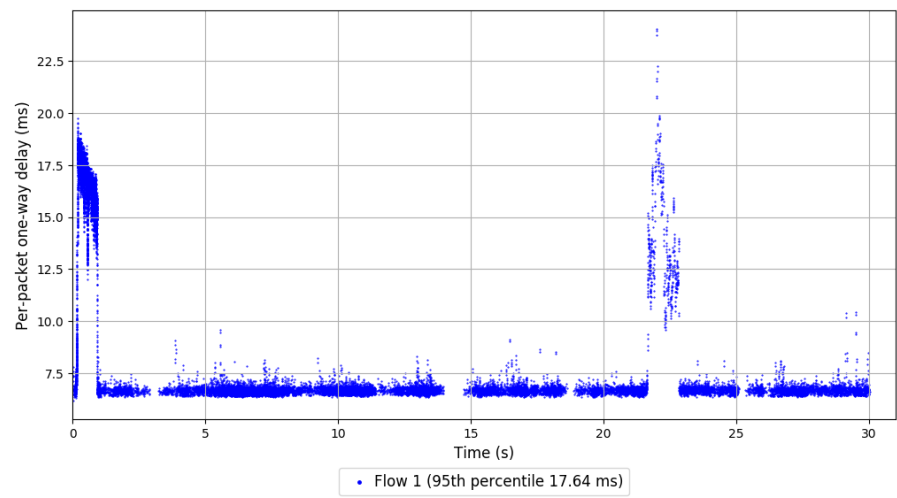
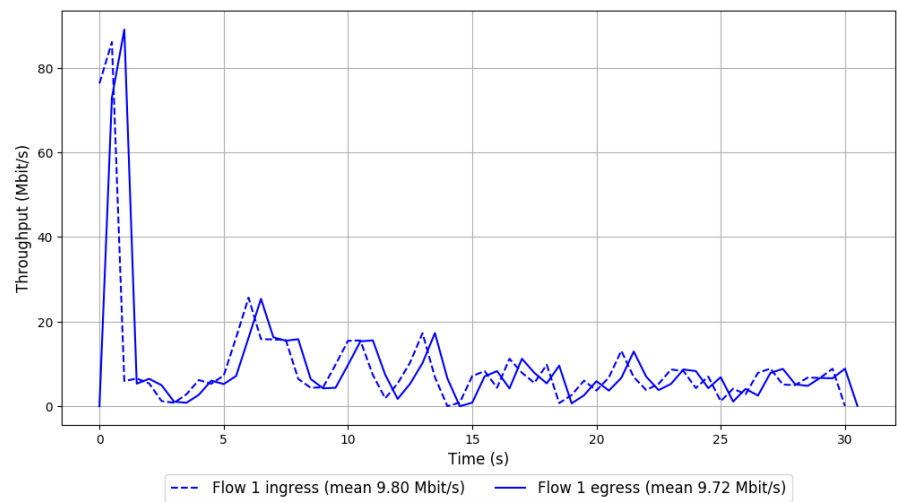
-- Flow 1:

Average throughput: 9.72 Mbit/s

95th percentile per-packet one-way delay: 17.637 ms

Loss rate: 0.88%

Run 1: Report of TCP Vegas — Data Link

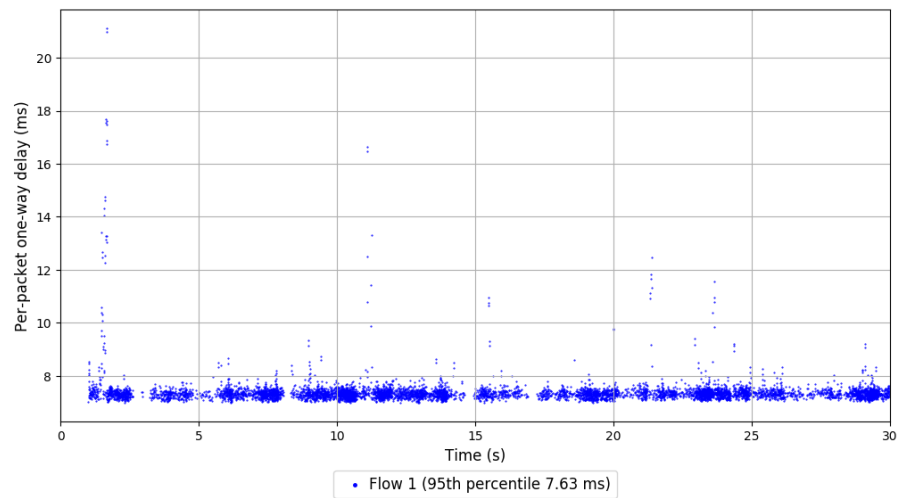
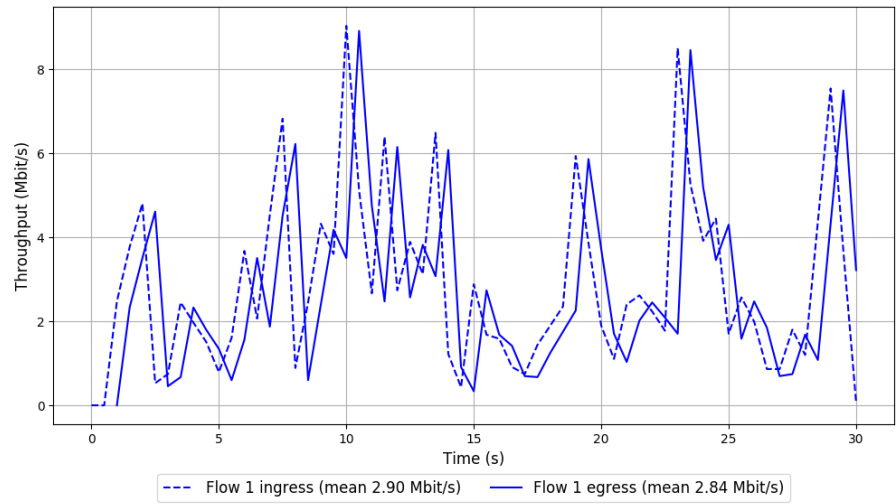


Run 2: Statistics of TCP Vegas

Start at: 2018-08-27 20:59:49  
End at: 2018-08-27 21:00:19  
Local clock offset: 3.098 ms  
Remote clock offset: -2.833 ms

# Below is generated by plot.py at 2018-08-27 23:56:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.84 Mbit/s  
95th percentile per-packet one-way delay: 7.635 ms  
Loss rate: 5.47%  
-- Flow 1:  
Average throughput: 2.84 Mbit/s  
95th percentile per-packet one-way delay: 7.635 ms  
Loss rate: 5.47%

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



Run 3: Statistics of TCP Vegas

Start at: 2018-08-27 21:18:24

End at: 2018-08-27 21:18:54

Local clock offset: 4.177 ms

Remote clock offset: -3.53 ms

# Below is generated by plot.py at 2018-08-27 23:56:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.55 Mbit/s

95th percentile per-packet one-way delay: 5.531 ms

Loss rate: 2.36%

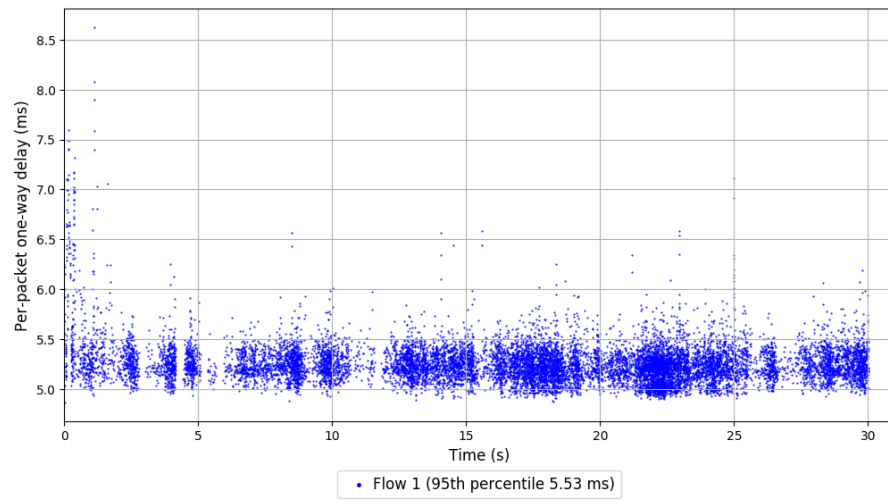
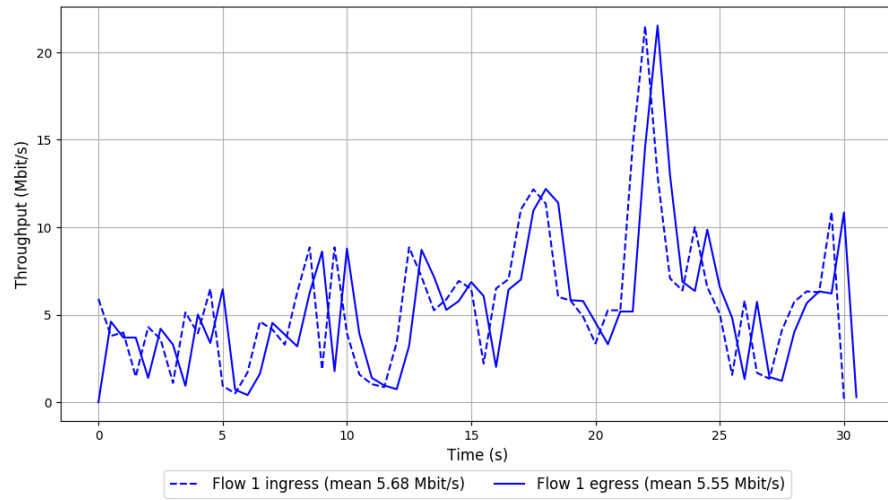
-- Flow 1:

Average throughput: 5.55 Mbit/s

95th percentile per-packet one-way delay: 5.531 ms

Loss rate: 2.36%

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

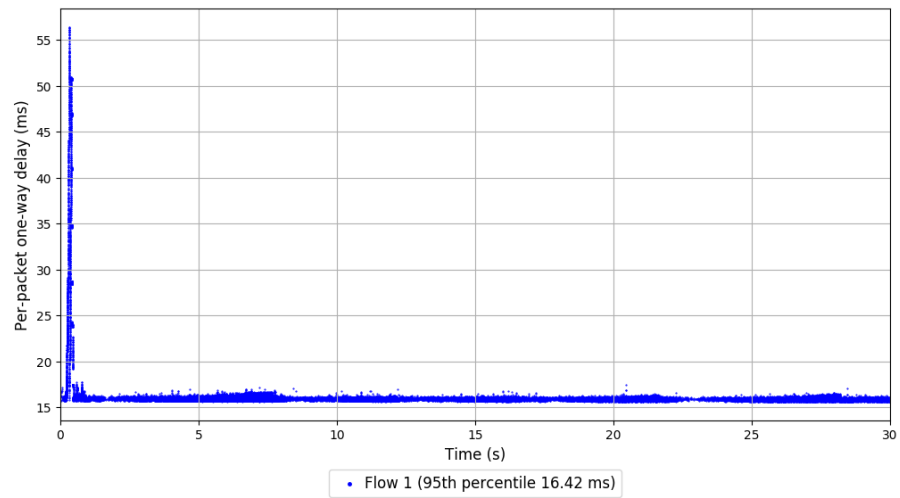
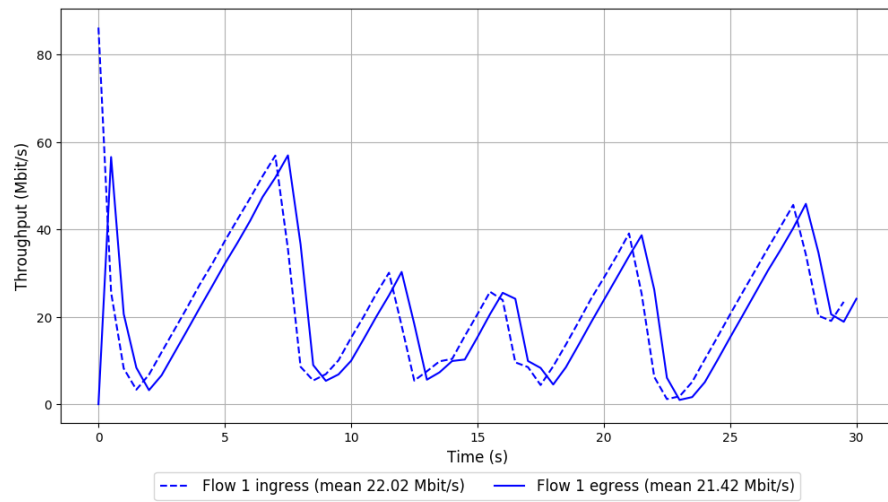


Run 4: Statistics of TCP Vegas

Start at: 2018-08-27 21:37:05  
End at: 2018-08-27 21:37:35  
Local clock offset: 0.743 ms  
Remote clock offset: -5.392 ms

# Below is generated by plot.py at 2018-08-27 23:57:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 21.42 Mbit/s  
95th percentile per-packet one-way delay: 16.421 ms  
Loss rate: 2.72%  
-- Flow 1:  
Average throughput: 21.42 Mbit/s  
95th percentile per-packet one-way delay: 16.421 ms  
Loss rate: 2.72%

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

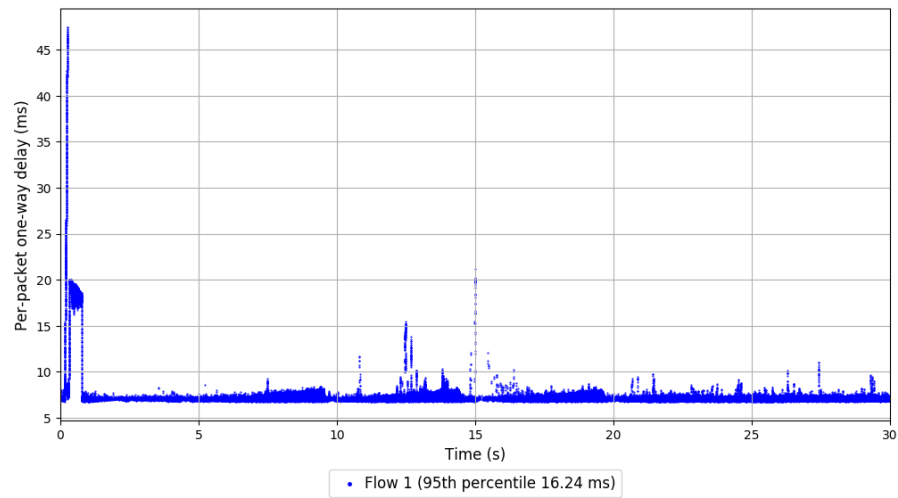
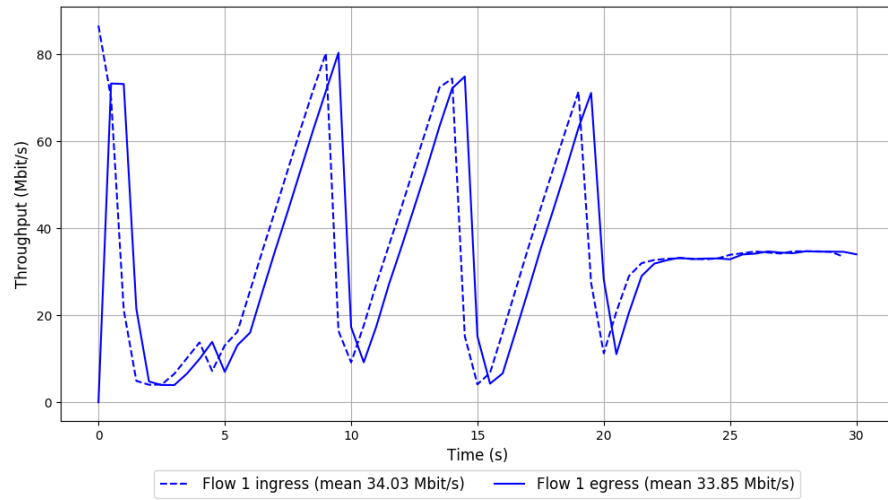


Run 5: Statistics of TCP Vegas

Start at: 2018-08-27 21:55:53  
End at: 2018-08-27 21:56:23  
Local clock offset: 1.437 ms  
Remote clock offset: -3.257 ms

# Below is generated by plot.py at 2018-08-27 23:57:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 33.85 Mbit/s  
95th percentile per-packet one-way delay: 16.238 ms  
Loss rate: 0.53%  
-- Flow 1:  
Average throughput: 33.85 Mbit/s  
95th percentile per-packet one-way delay: 16.238 ms  
Loss rate: 0.53%

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

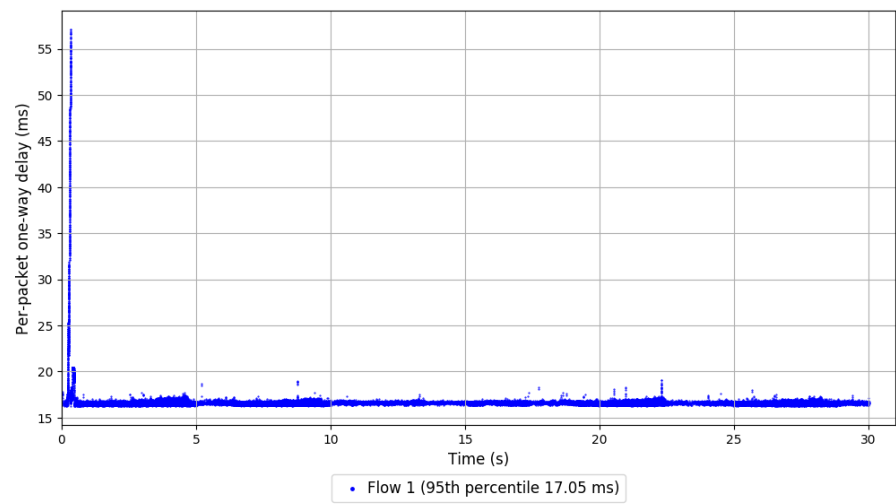
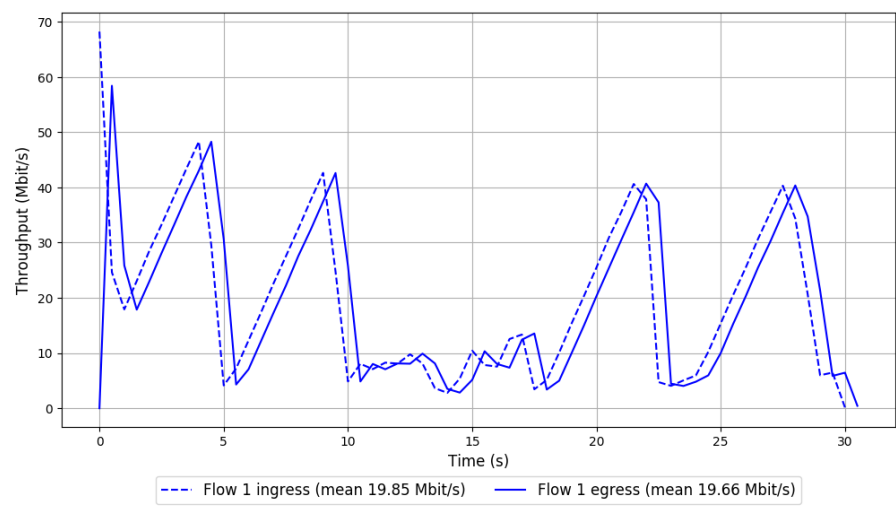


Run 6: Statistics of TCP Vegas

Start at: 2018-08-27 22:14:49  
End at: 2018-08-27 22:15:19  
Local clock offset: 3.024 ms  
Remote clock offset: -2.202 ms

# Below is generated by plot.py at 2018-08-27 23:57:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 19.66 Mbit/s  
95th percentile per-packet one-way delay: 17.051 ms  
Loss rate: 0.93%  
-- Flow 1:  
Average throughput: 19.66 Mbit/s  
95th percentile per-packet one-way delay: 17.051 ms  
Loss rate: 0.93%

Run 6: Report of TCP Vegas — Data Link

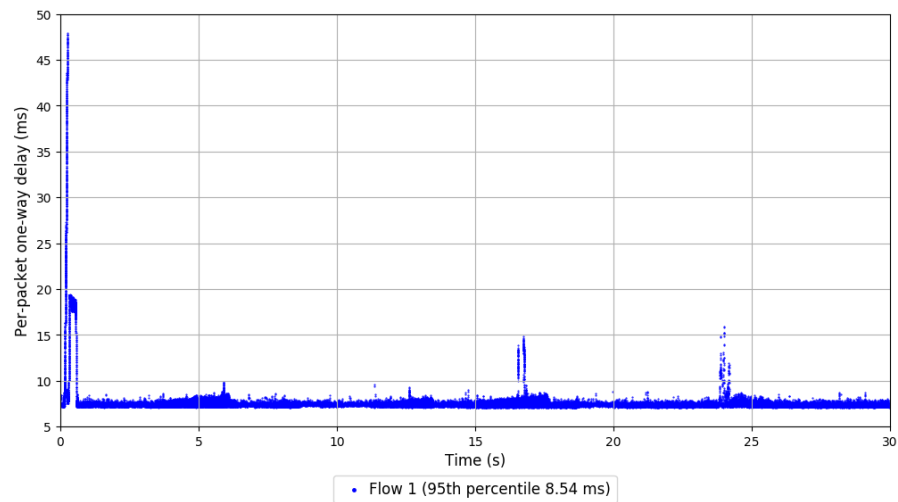
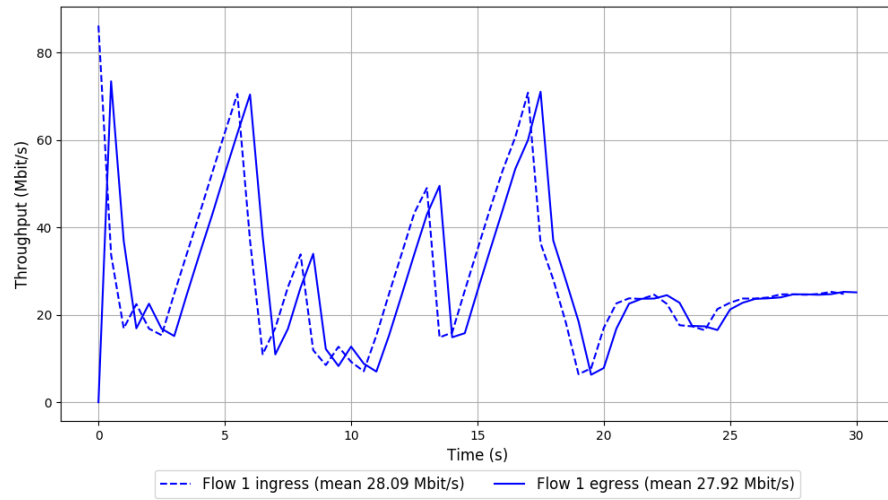


Run 7: Statistics of TCP Vegas

Start at: 2018-08-27 22:33:32  
End at: 2018-08-27 22:34:02  
Local clock offset: 2.87 ms  
Remote clock offset: -2.686 ms

# Below is generated by plot.py at 2018-08-27 23:57:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 27.92 Mbit/s  
95th percentile per-packet one-way delay: 8.545 ms  
Loss rate: 0.62%  
-- Flow 1:  
Average throughput: 27.92 Mbit/s  
95th percentile per-packet one-way delay: 8.545 ms  
Loss rate: 0.62%

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

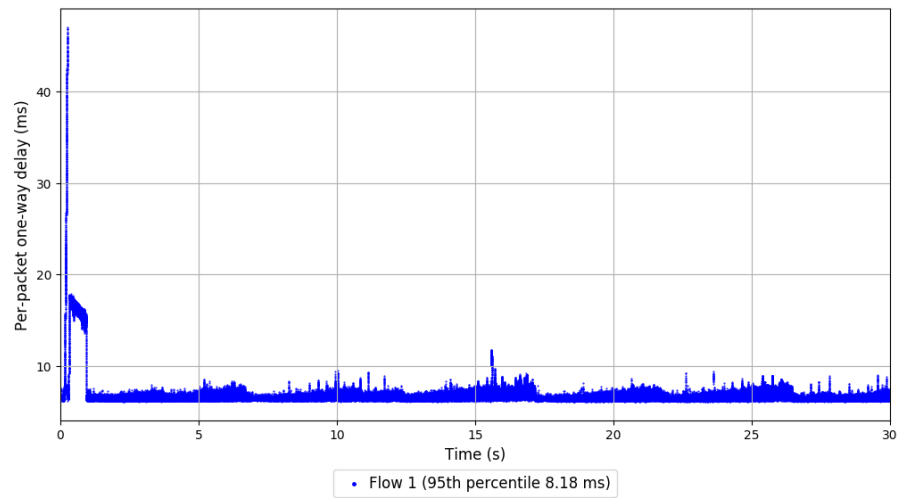
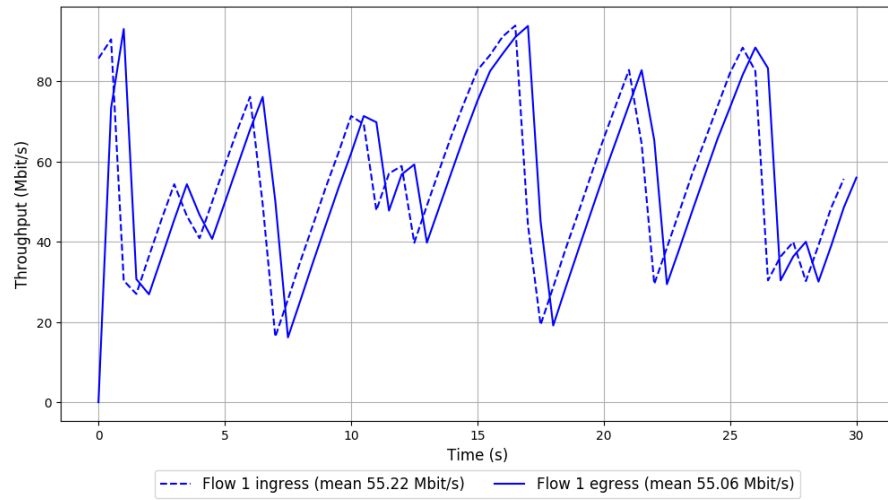


Run 8: Statistics of TCP Vegas

Start at: 2018-08-27 22:52:16  
End at: 2018-08-27 22:52:46  
Local clock offset: 3.592 ms  
Remote clock offset: -2.736 ms

# Below is generated by plot.py at 2018-08-27 23:57:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 55.06 Mbit/s  
95th percentile per-packet one-way delay: 8.179 ms  
Loss rate: 0.29%  
-- Flow 1:  
Average throughput: 55.06 Mbit/s  
95th percentile per-packet one-way delay: 8.179 ms  
Loss rate: 0.29%

# Run 8: Report of TCP Vegas — Data Link

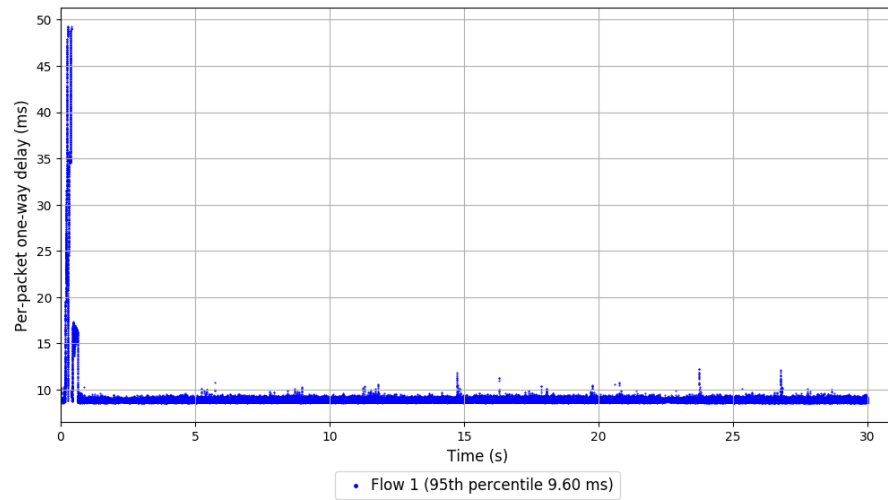
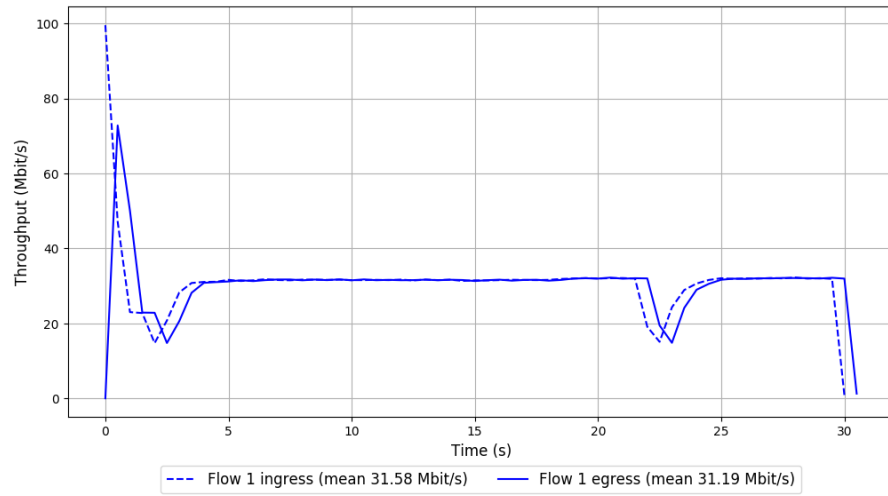


Run 9: Statistics of TCP Vegas

Start at: 2018-08-27 23:10:58  
End at: 2018-08-27 23:11:28  
Local clock offset: 1.108 ms  
Remote clock offset: -2.555 ms

# Below is generated by plot.py at 2018-08-27 23:57:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 31.19 Mbit/s  
95th percentile per-packet one-way delay: 9.595 ms  
Loss rate: 1.25%  
-- Flow 1:  
Average throughput: 31.19 Mbit/s  
95th percentile per-packet one-way delay: 9.595 ms  
Loss rate: 1.25%

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



Run 10: Statistics of TCP Vegas

Start at: 2018-08-27 23:29:44

End at: 2018-08-27 23:30:14

Local clock offset: -0.232 ms

Remote clock offset: -2.391 ms

# Below is generated by plot.py at 2018-08-27 23:57:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 32.19 Mbit/s

95th percentile per-packet one-way delay: 9.987 ms

Loss rate: 0.11%

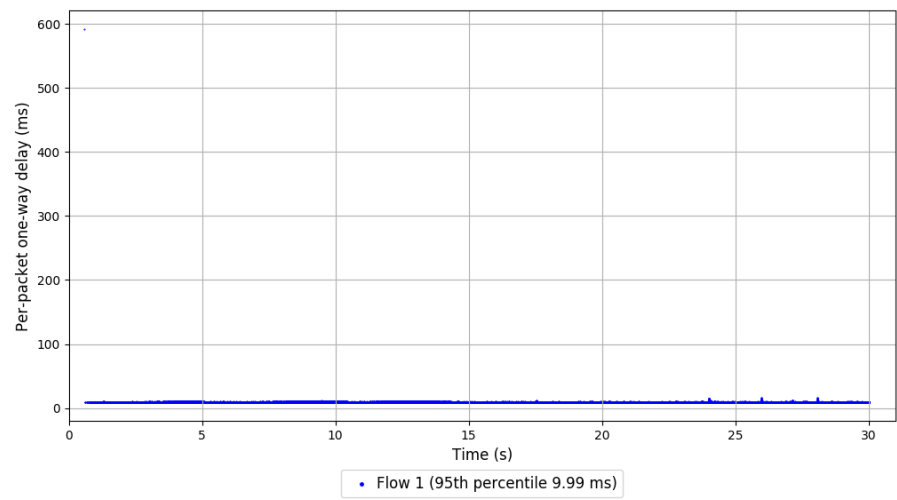
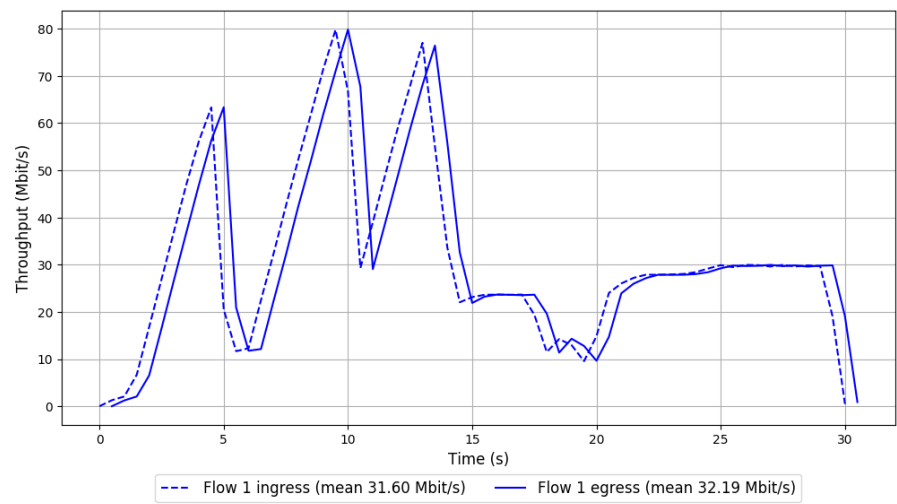
-- Flow 1:

Average throughput: 32.19 Mbit/s

95th percentile per-packet one-way delay: 9.987 ms

Loss rate: 0.11%

Run 10: Report of TCP Vegas — Data Link

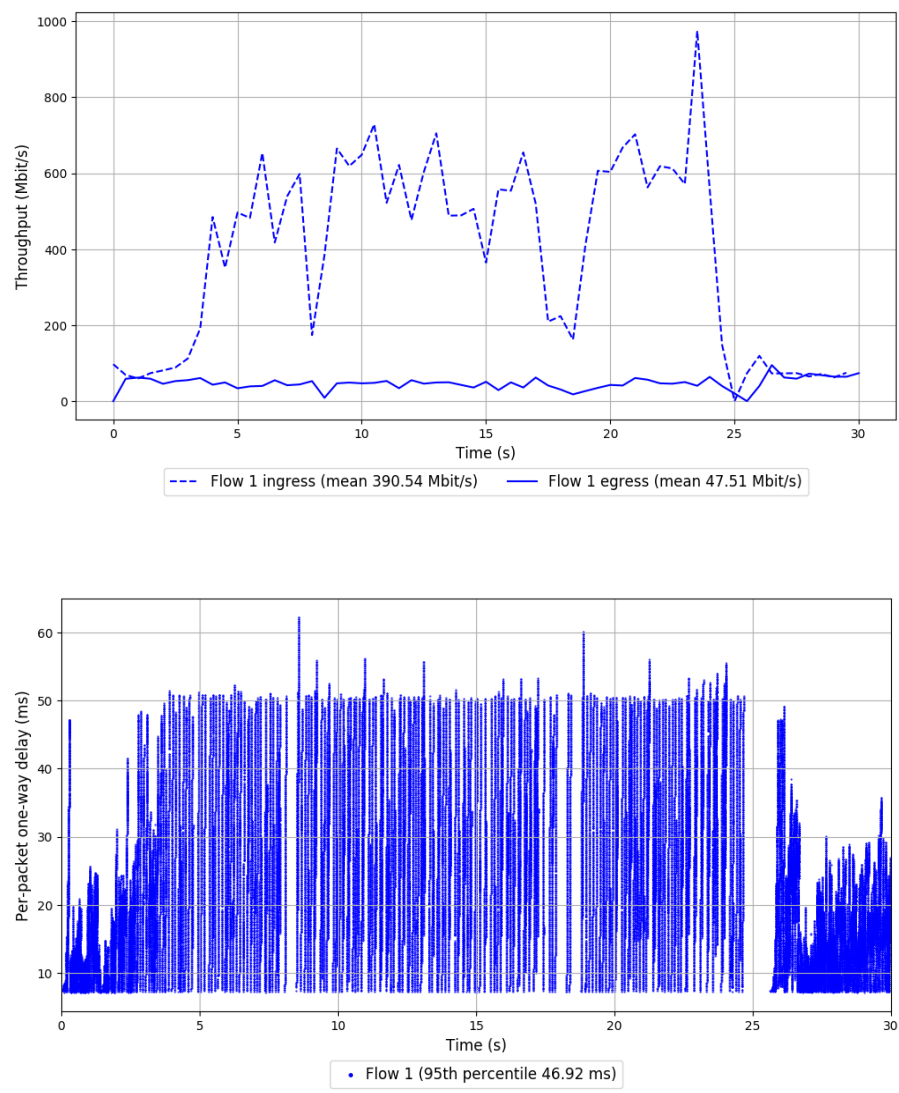


Run 1: Statistics of Verus

Start at: 2018-08-27 20:43:09  
End at: 2018-08-27 20:43:39  
Local clock offset: 1.384 ms  
Remote clock offset: -2.899 ms

# Below is generated by plot.py at 2018-08-27 23:58:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 47.51 Mbit/s  
95th percentile per-packet one-way delay: 46.916 ms  
Loss rate: 87.83%  
-- Flow 1:  
Average throughput: 47.51 Mbit/s  
95th percentile per-packet one-way delay: 46.916 ms  
Loss rate: 87.83%

Run 1: Report of Verus — Data Link

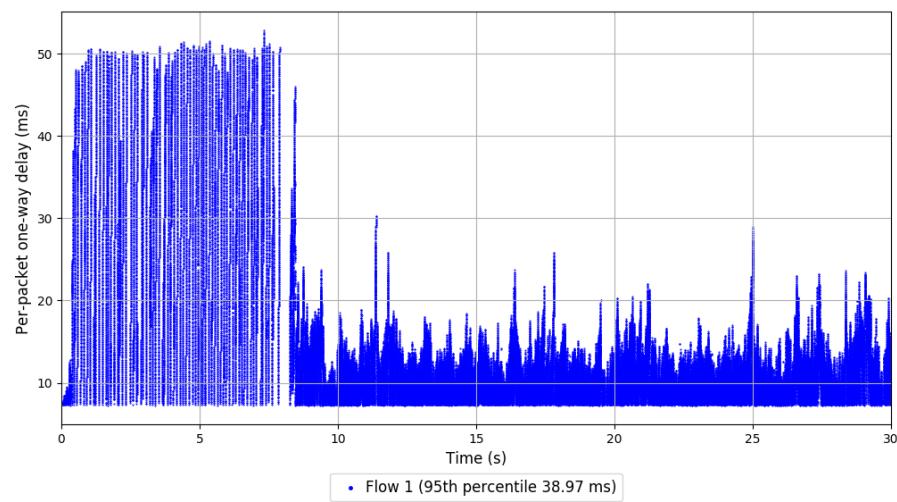
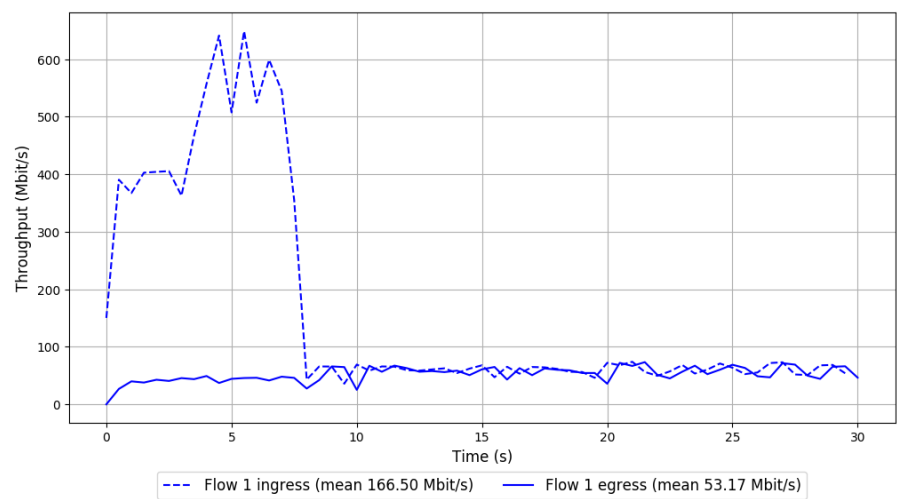


Run 2: Statistics of Verus

Start at: 2018-08-27 21:02:00  
End at: 2018-08-27 21:02:30  
Local clock offset: 2.151 ms  
Remote clock offset: -2.634 ms

# Below is generated by plot.py at 2018-08-27 23:58:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 53.17 Mbit/s  
95th percentile per-packet one-way delay: 38.971 ms  
Loss rate: 68.06%  
-- Flow 1:  
Average throughput: 53.17 Mbit/s  
95th percentile per-packet one-way delay: 38.971 ms  
Loss rate: 68.06%

Run 2: Report of Verus — Data Link

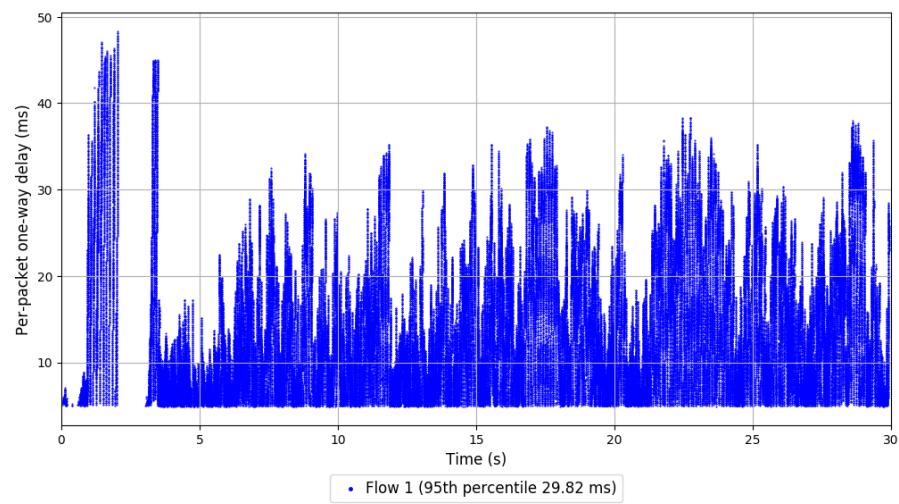
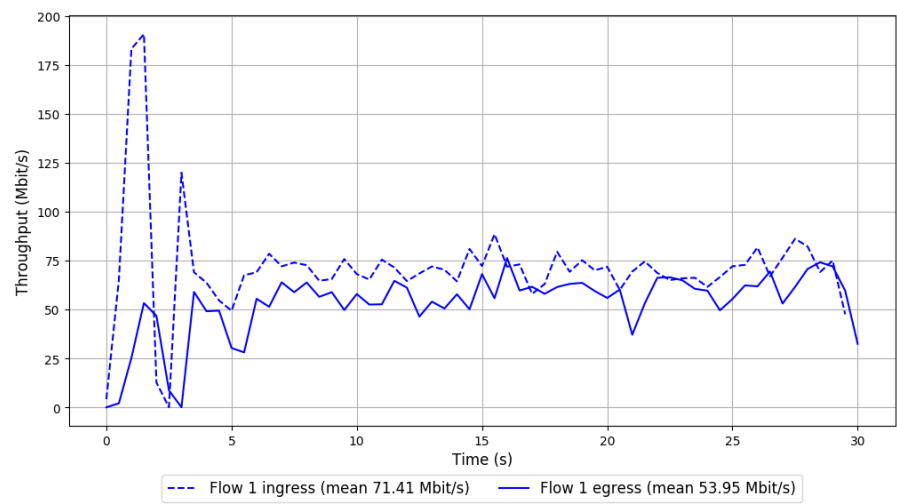


Run 3: Statistics of Verus

Start at: 2018-08-27 21:20:38  
End at: 2018-08-27 21:21:08  
Local clock offset: 4.63 ms  
Remote clock offset: -3.107 ms

# Below is generated by plot.py at 2018-08-27 23:58:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 53.95 Mbit/s  
95th percentile per-packet one-way delay: 29.825 ms  
Loss rate: 24.40%  
-- Flow 1:  
Average throughput: 53.95 Mbit/s  
95th percentile per-packet one-way delay: 29.825 ms  
Loss rate: 24.40%

Run 3: Report of Verus — Data Link

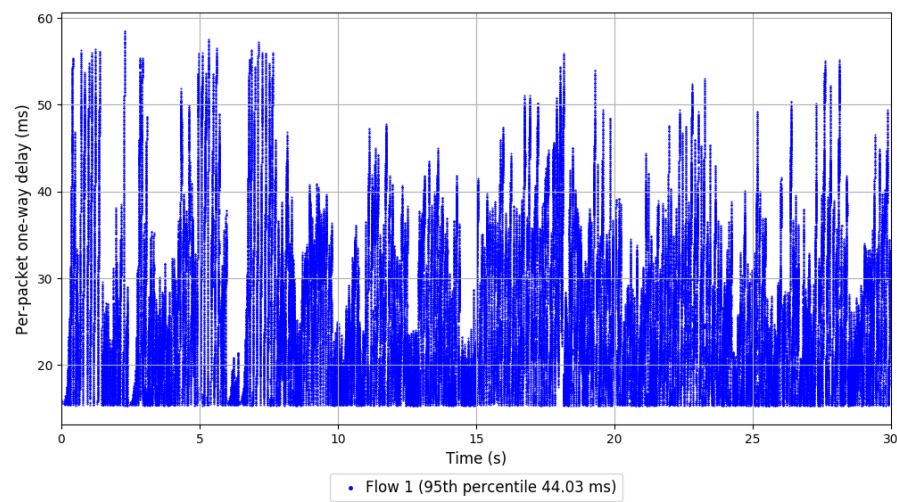
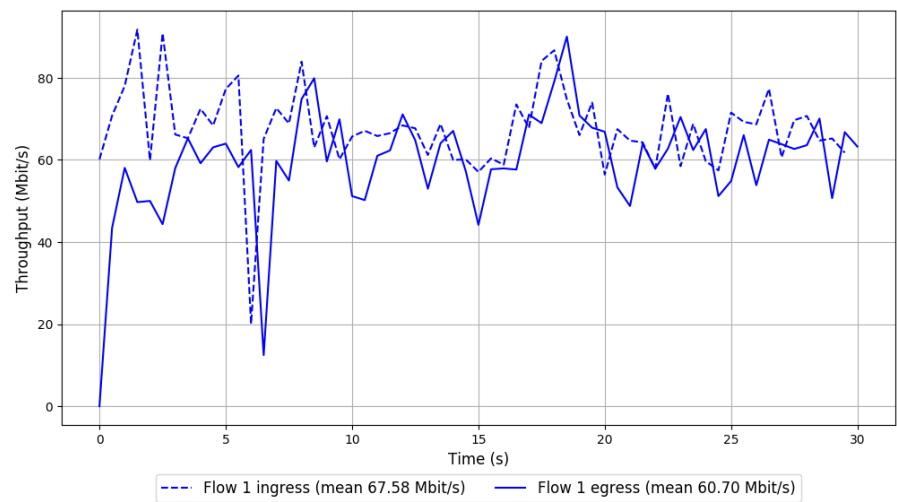


Run 4: Statistics of Verus

Start at: 2018-08-27 21:39:21  
End at: 2018-08-27 21:39:51  
Local clock offset: 3.884 ms  
Remote clock offset: -2.346 ms

# Below is generated by plot.py at 2018-08-27 23:58:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 60.70 Mbit/s  
95th percentile per-packet one-way delay: 44.035 ms  
Loss rate: 10.15%  
-- Flow 1:  
Average throughput: 60.70 Mbit/s  
95th percentile per-packet one-way delay: 44.035 ms  
Loss rate: 10.15%

Run 4: Report of Verus — Data Link

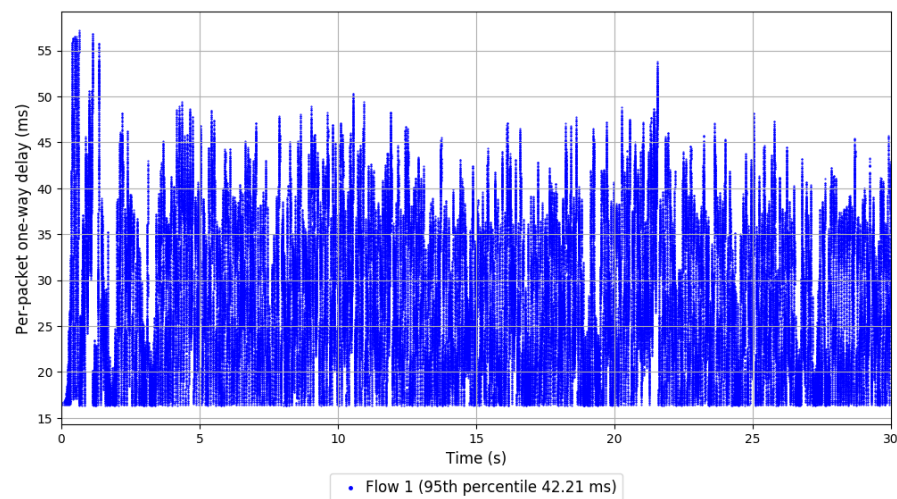
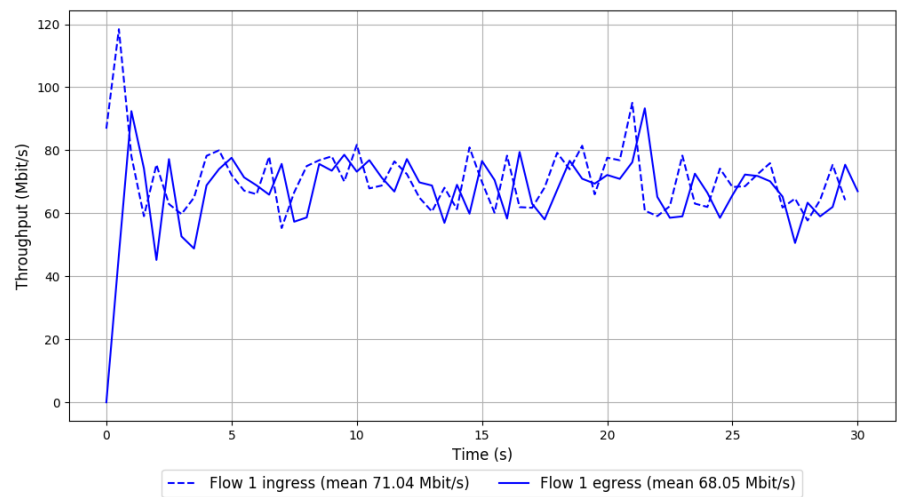


Run 5: Statistics of Verus

Start at: 2018-08-27 21:58:09  
End at: 2018-08-27 21:58:39  
Local clock offset: 0.819 ms  
Remote clock offset: -3.293 ms

# Below is generated by plot.py at 2018-08-27 23:58:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 68.05 Mbit/s  
95th percentile per-packet one-way delay: 42.212 ms  
Loss rate: 4.14%  
-- Flow 1:  
Average throughput: 68.05 Mbit/s  
95th percentile per-packet one-way delay: 42.212 ms  
Loss rate: 4.14%

Run 5: Report of Verus — Data Link

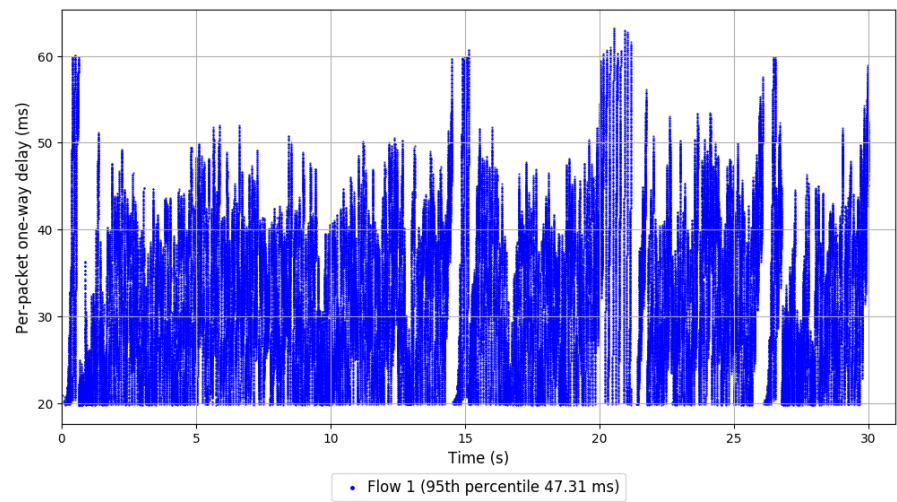
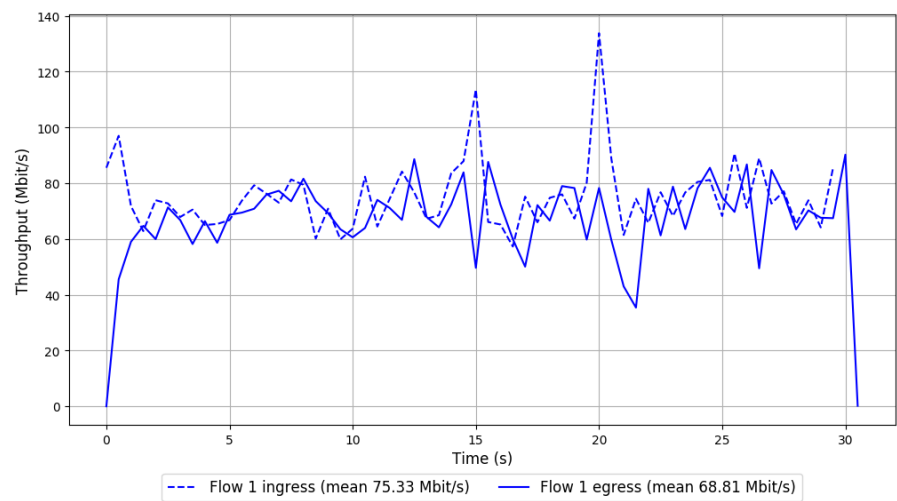


Run 6: Statistics of Verus

Start at: 2018-08-27 22:17:03  
End at: 2018-08-27 22:17:33  
Local clock offset: -1.755 ms  
Remote clock offset: -3.552 ms

# Below is generated by plot.py at 2018-08-27 23:58:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 68.81 Mbit/s  
95th percentile per-packet one-way delay: 47.308 ms  
Loss rate: 8.59%  
-- Flow 1:  
Average throughput: 68.81 Mbit/s  
95th percentile per-packet one-way delay: 47.308 ms  
Loss rate: 8.59%

Run 6: Report of Verus — Data Link

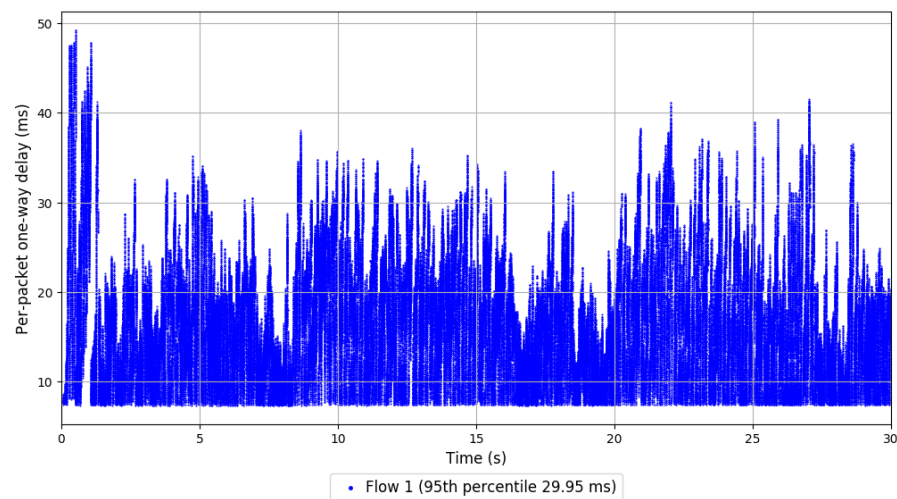
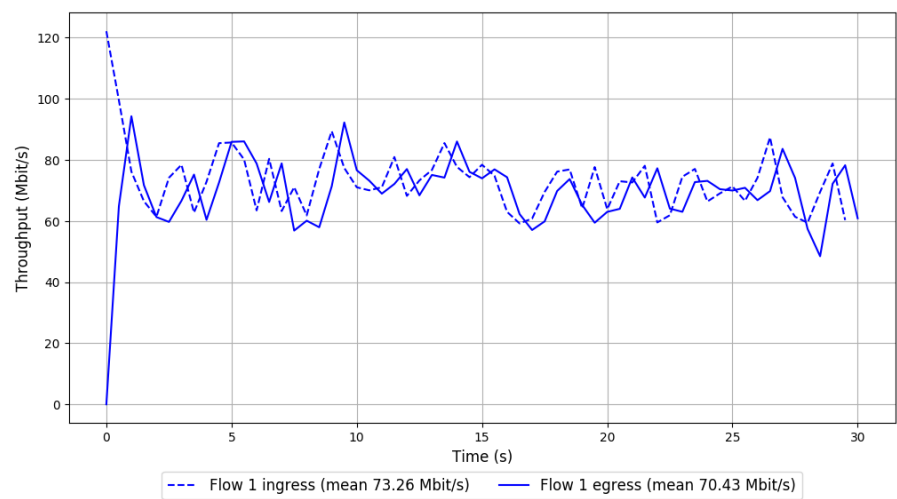


Run 7: Statistics of Verus

Start at: 2018-08-27 22:35:46  
End at: 2018-08-27 22:36:16  
Local clock offset: 1.469 ms  
Remote clock offset: -2.796 ms

# Below is generated by plot.py at 2018-08-27 23:58:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 70.43 Mbit/s  
95th percentile per-packet one-way delay: 29.953 ms  
Loss rate: 3.82%  
-- Flow 1:  
Average throughput: 70.43 Mbit/s  
95th percentile per-packet one-way delay: 29.953 ms  
Loss rate: 3.82%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-08-27 22:54:31

End at: 2018-08-27 22:55:01

Local clock offset: -3.808 ms

Remote clock offset: -9.01 ms

# Below is generated by plot.py at 2018-08-27 23:58:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 73.39 Mbit/s

95th percentile per-packet one-way delay: 28.094 ms

Loss rate: 3.43%

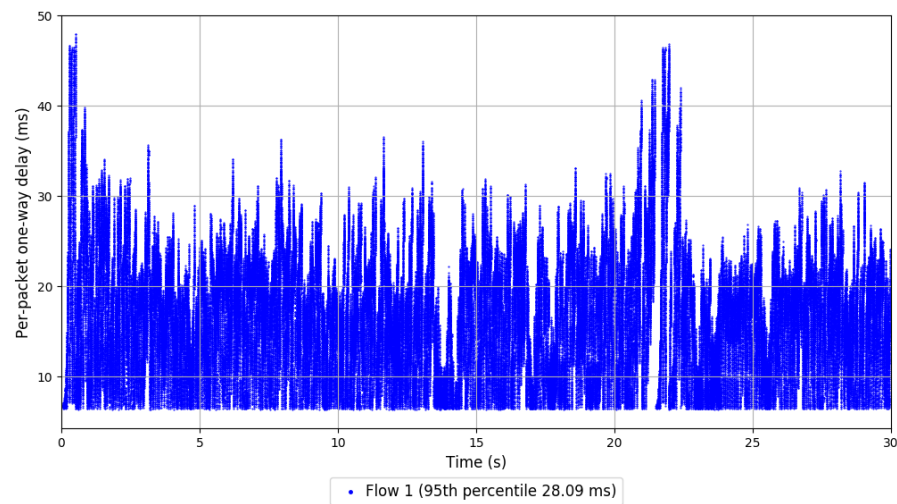
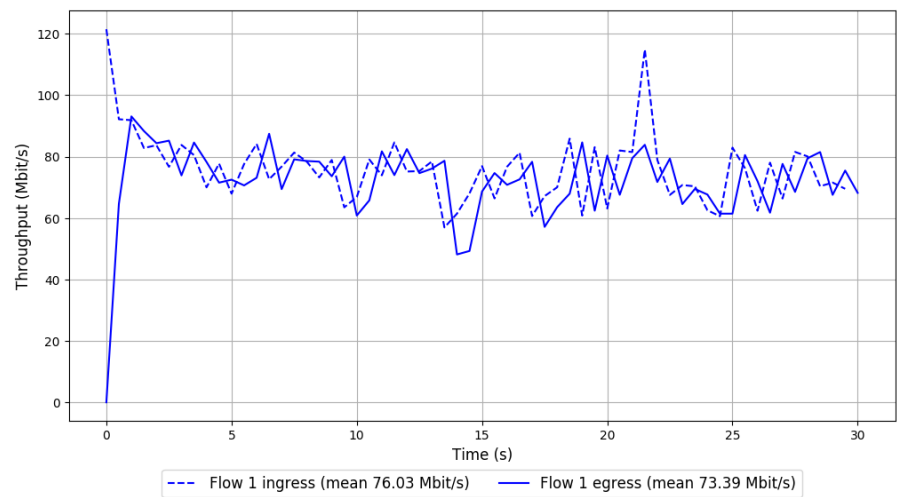
-- Flow 1:

Average throughput: 73.39 Mbit/s

95th percentile per-packet one-way delay: 28.094 ms

Loss rate: 3.43%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-08-27 23:13:12

End at: 2018-08-27 23:13:42

Local clock offset: 3.272 ms

Remote clock offset: -2.6 ms

# Below is generated by plot.py at 2018-08-27 23:58:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 73.64 Mbit/s

95th percentile per-packet one-way delay: 29.279 ms

Loss rate: 2.40%

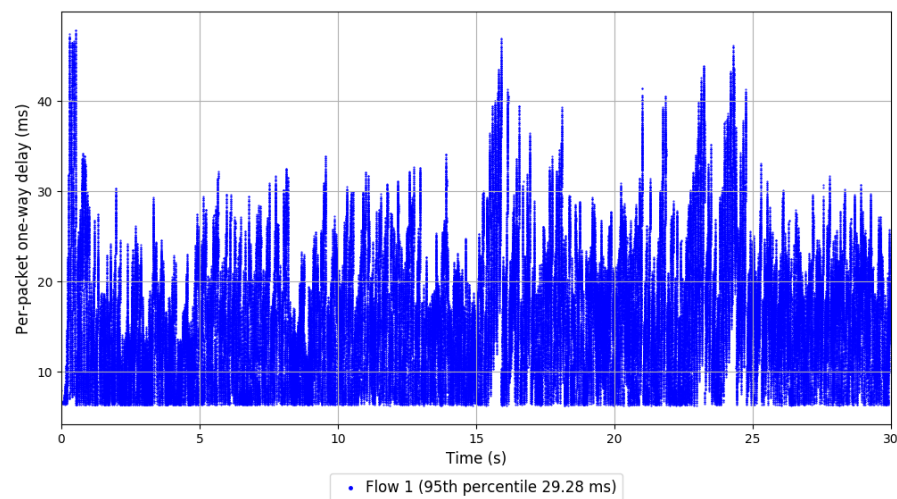
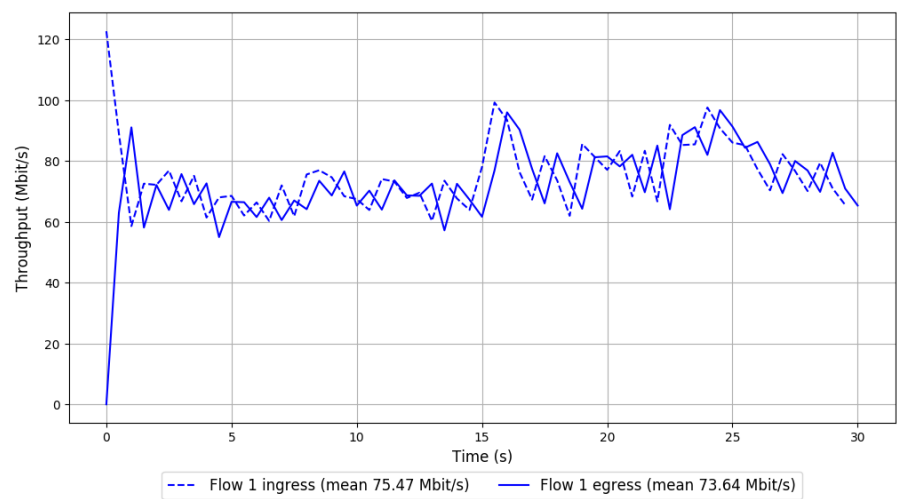
-- Flow 1:

Average throughput: 73.64 Mbit/s

95th percentile per-packet one-way delay: 29.279 ms

Loss rate: 2.40%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-08-27 23:31:59

End at: 2018-08-27 23:32:29

Local clock offset: 0.6 ms

Remote clock offset: -2.66 ms

# Below is generated by plot.py at 2018-08-27 23:58:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 73.35 Mbit/s

95th percentile per-packet one-way delay: 29.534 ms

Loss rate: 3.16%

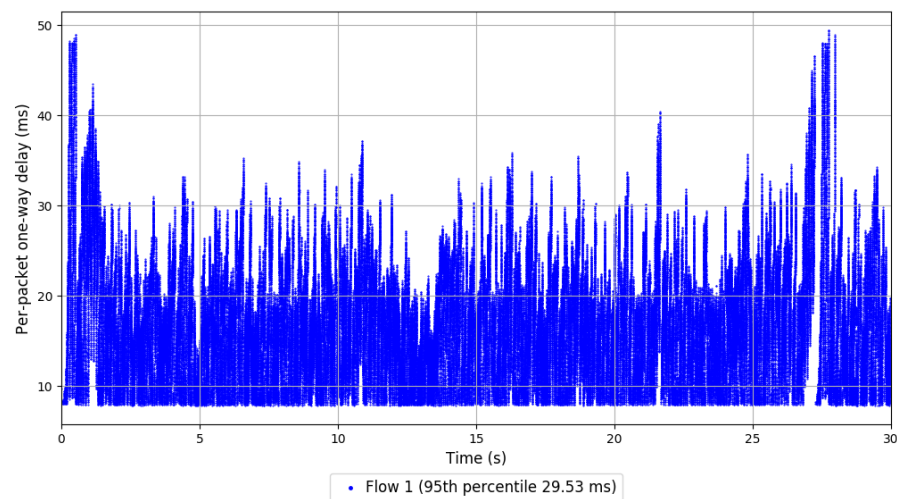
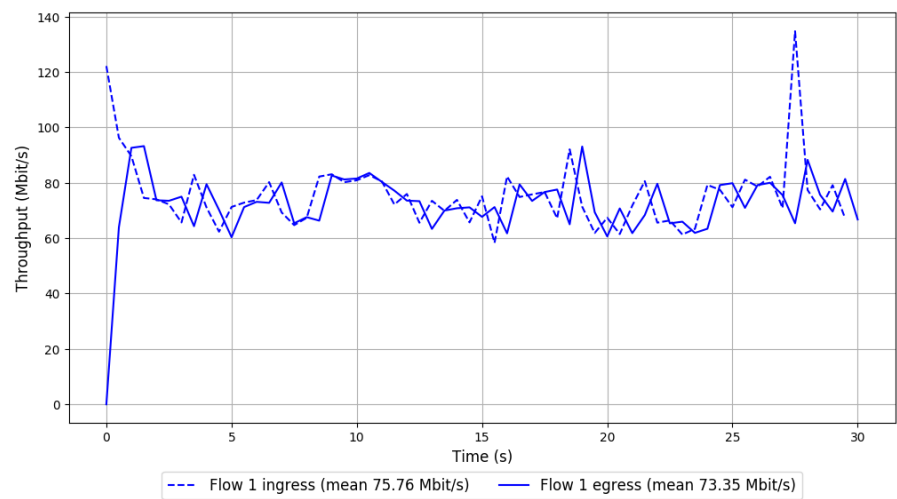
-- Flow 1:

Average throughput: 73.35 Mbit/s

95th percentile per-packet one-way delay: 29.534 ms

Loss rate: 3.16%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-08-27 20:48:43

End at: 2018-08-27 20:49:13

Local clock offset: 3.486 ms

Remote clock offset: -2.785 ms

# Below is generated by plot.py at 2018-08-27 23:58:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 25.39 Mbit/s

95th percentile per-packet one-way delay: 7.085 ms

Loss rate: 4.64%

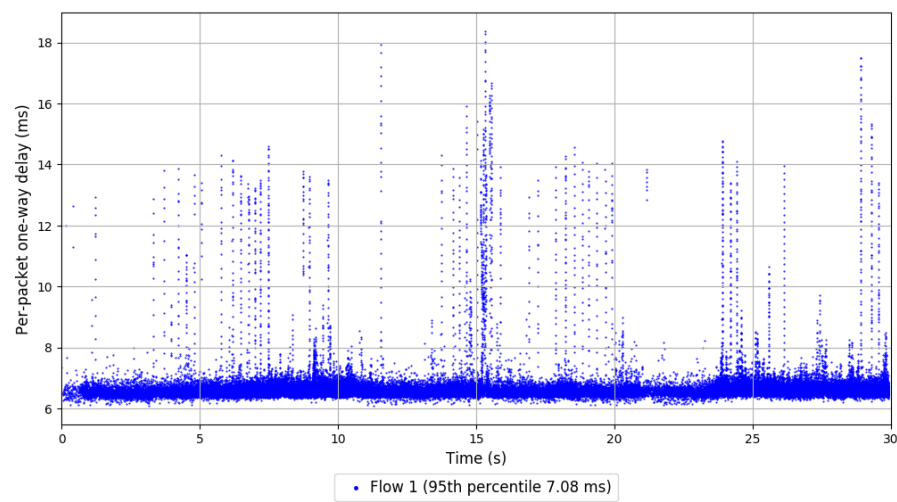
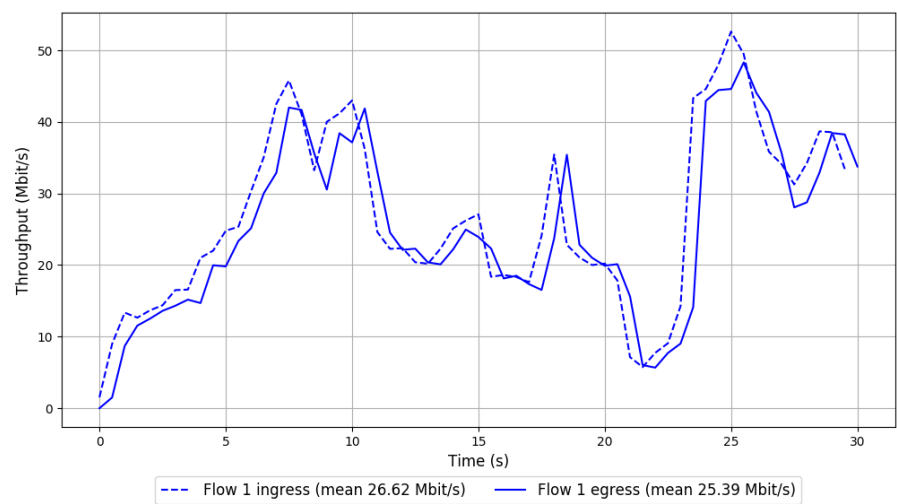
-- Flow 1:

Average throughput: 25.39 Mbit/s

95th percentile per-packet one-way delay: 7.085 ms

Loss rate: 4.64%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-08-27 21:07:27

End at: 2018-08-27 21:07:57

Local clock offset: 4.518 ms

Remote clock offset: -3.245 ms

# Below is generated by plot.py at 2018-08-27 23:58:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 19.61 Mbit/s

95th percentile per-packet one-way delay: 4.931 ms

Loss rate: 4.53%

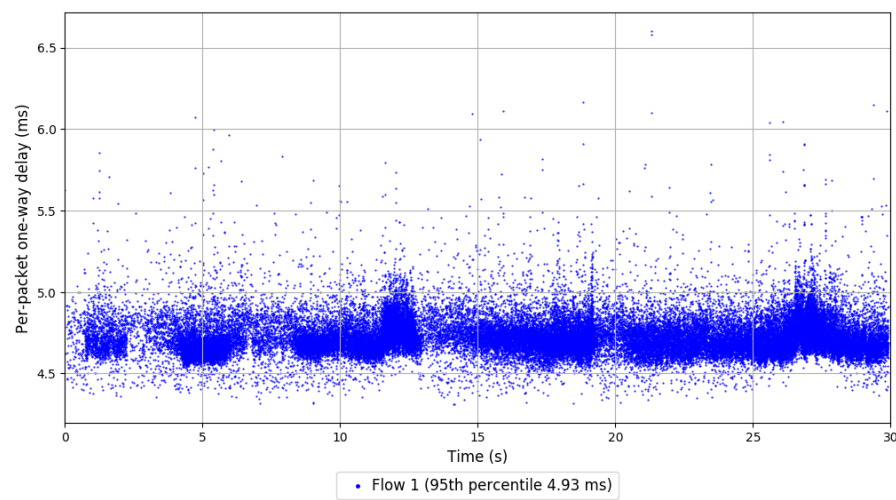
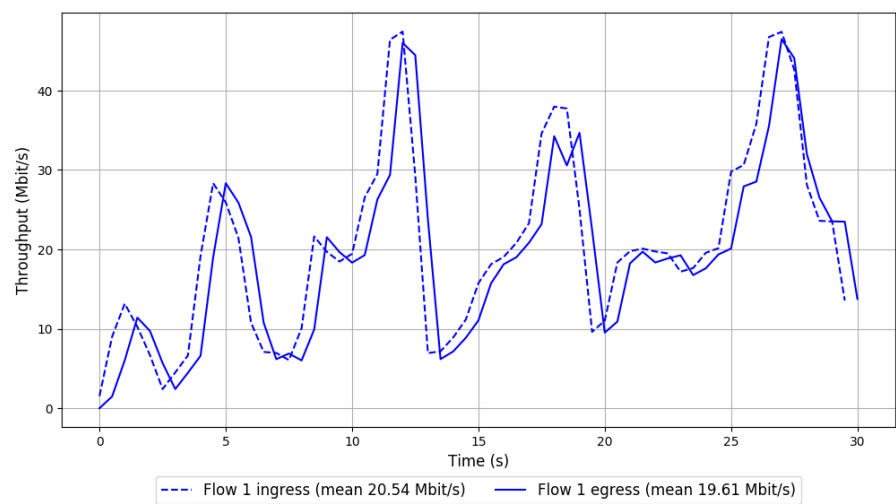
-- Flow 1:

Average throughput: 19.61 Mbit/s

95th percentile per-packet one-way delay: 4.931 ms

Loss rate: 4.53%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-08-27 21:26:06

End at: 2018-08-27 21:26:36

Local clock offset: -0.76 ms

Remote clock offset: -2.685 ms

# Below is generated by plot.py at 2018-08-27 23:58:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 37.82 Mbit/s

95th percentile per-packet one-way delay: 12.350 ms

Loss rate: 6.05%

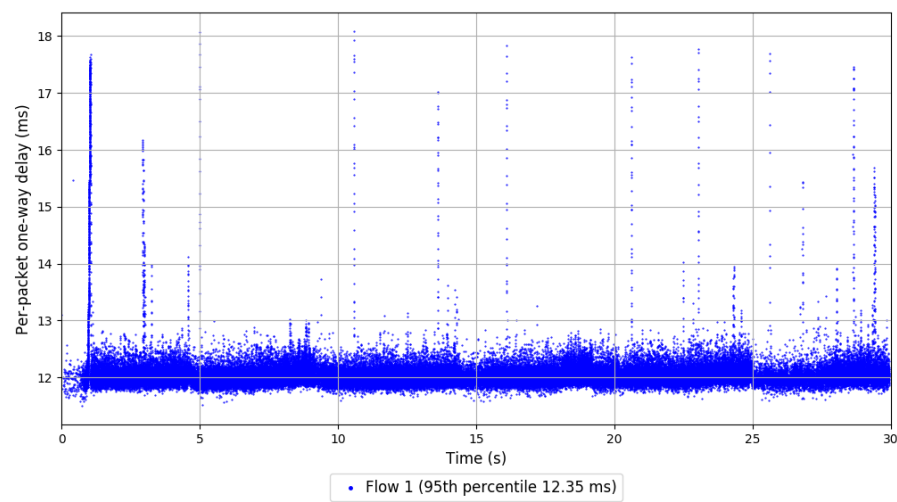
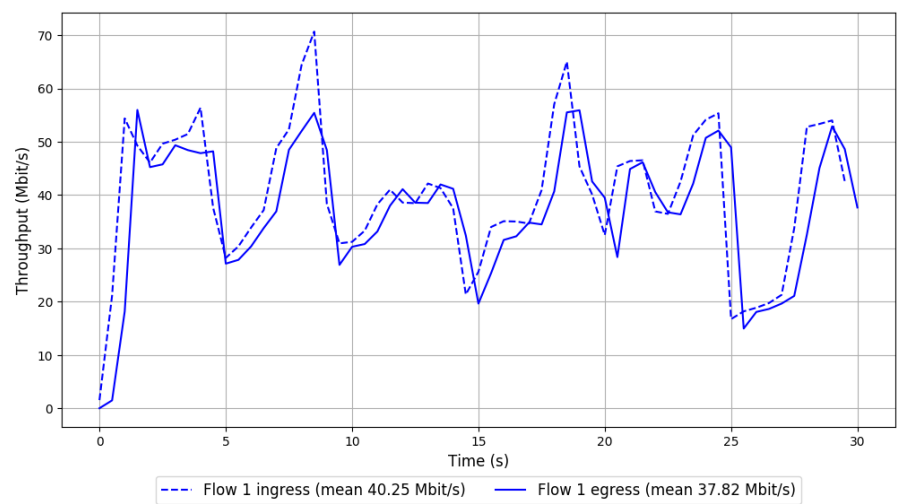
-- Flow 1:

Average throughput: 37.82 Mbit/s

95th percentile per-packet one-way delay: 12.350 ms

Loss rate: 6.05%

Run 3: Report of PCC-Vivace — Data Link

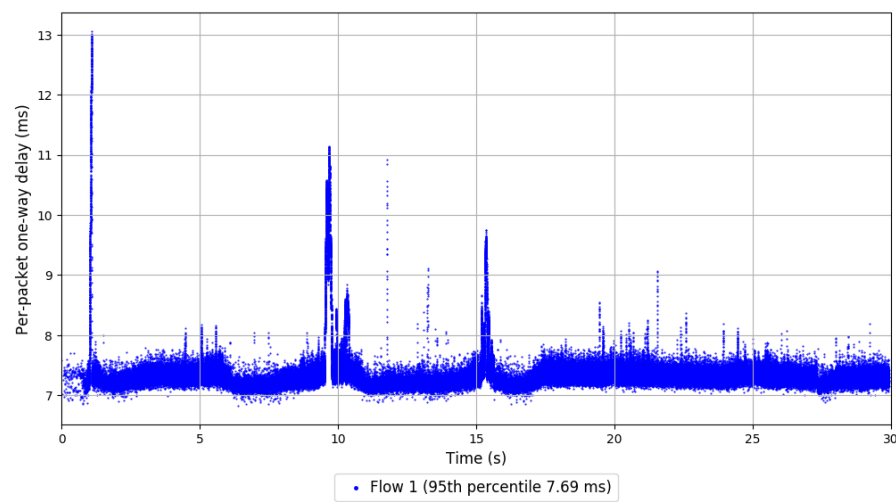
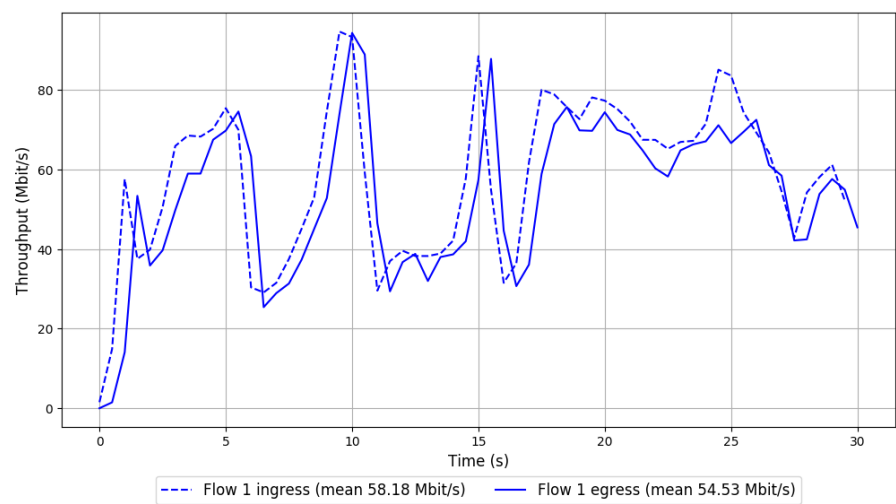


Run 4: Statistics of PCC-Vivace

Start at: 2018-08-27 21:44:51  
End at: 2018-08-27 21:45:21  
Local clock offset: 1.537 ms  
Remote clock offset: -3.354 ms

# Below is generated by plot.py at 2018-08-27 23:58:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 54.53 Mbit/s  
95th percentile per-packet one-way delay: 7.686 ms  
Loss rate: 6.28%  
-- Flow 1:  
Average throughput: 54.53 Mbit/s  
95th percentile per-packet one-way delay: 7.686 ms  
Loss rate: 6.28%

Run 4: Report of PCC-Vivace — Data Link

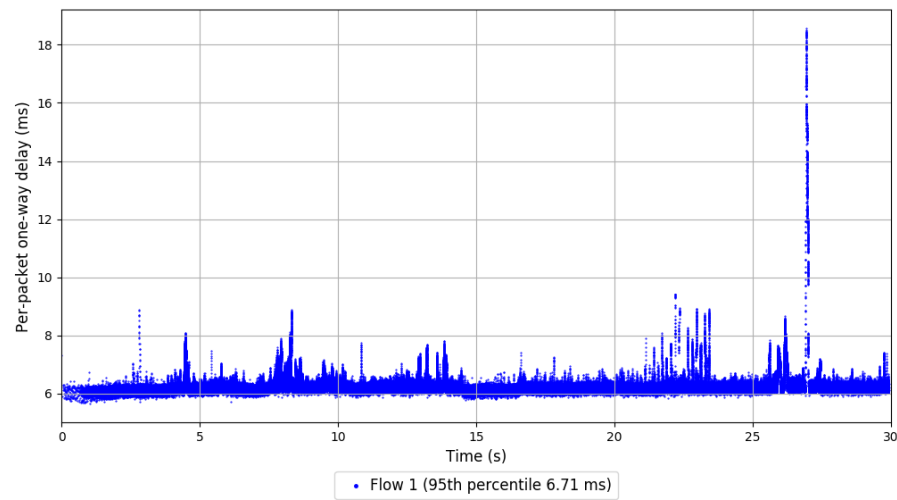
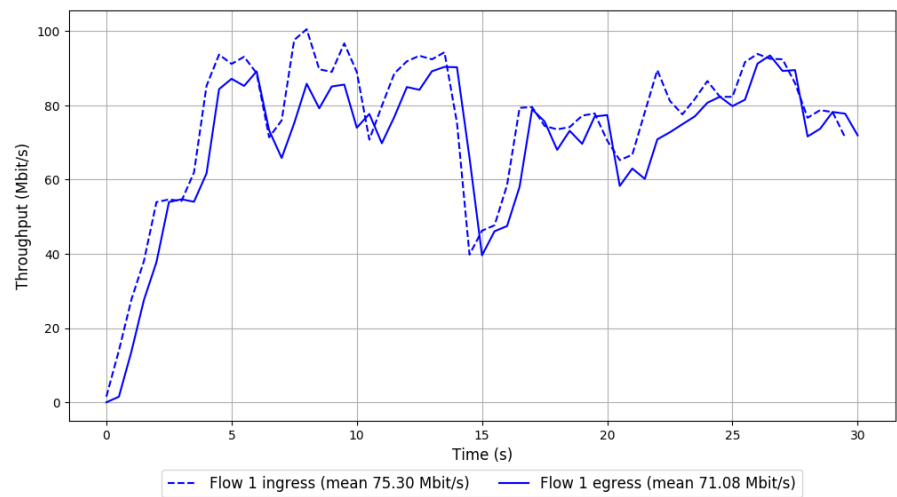


Run 5: Statistics of PCC-Vivace

Start at: 2018-08-27 22:03:41  
End at: 2018-08-27 22:04:11  
Local clock offset: 2.731 ms  
Remote clock offset: -3.075 ms

# Below is generated by plot.py at 2018-08-27 23:59:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 71.08 Mbit/s  
95th percentile per-packet one-way delay: 6.707 ms  
Loss rate: 5.61%  
-- Flow 1:  
Average throughput: 71.08 Mbit/s  
95th percentile per-packet one-way delay: 6.707 ms  
Loss rate: 5.61%

Run 5: Report of PCC-Vivace — Data Link

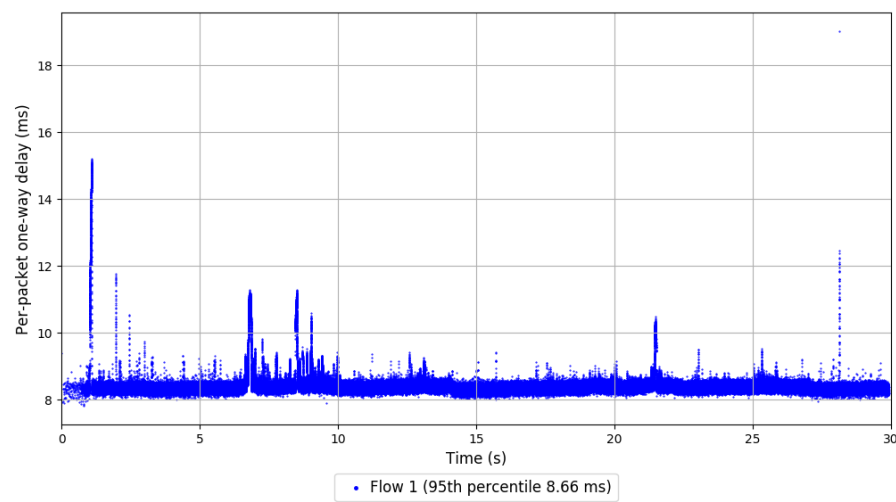
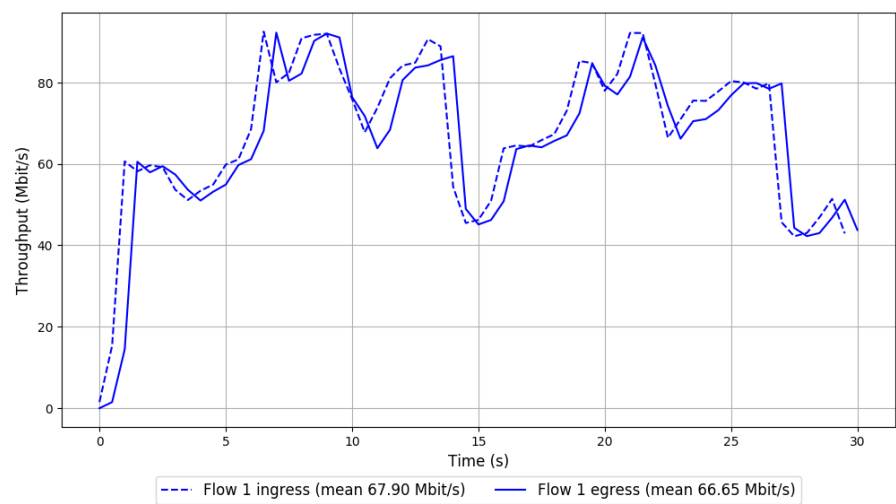


Run 6: Statistics of PCC-Vivace

Start at: 2018-08-27 22:22:31  
End at: 2018-08-27 22:23:01  
Local clock offset: 2.045 ms  
Remote clock offset: -2.468 ms

# Below is generated by plot.py at 2018-08-27 23:59:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 66.65 Mbit/s  
95th percentile per-packet one-way delay: 8.660 ms  
Loss rate: 1.84%  
-- Flow 1:  
Average throughput: 66.65 Mbit/s  
95th percentile per-packet one-way delay: 8.660 ms  
Loss rate: 1.84%

Run 6: Report of PCC-Vivace — Data Link

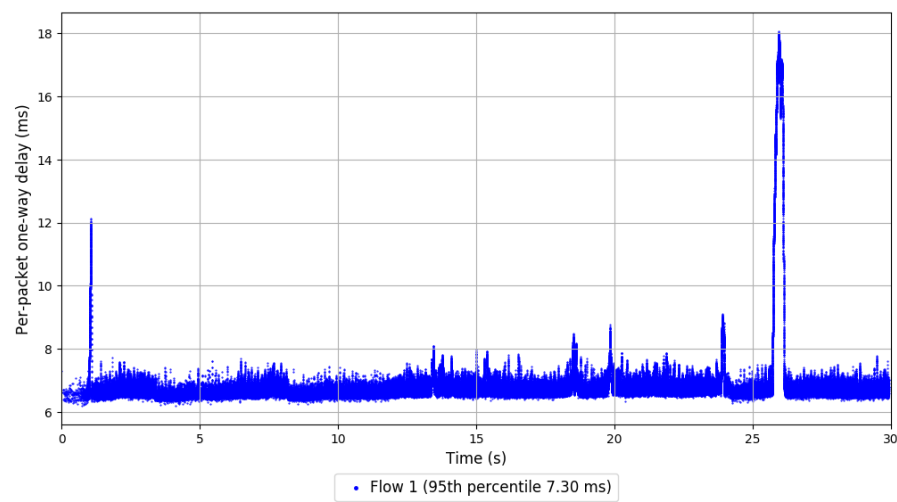
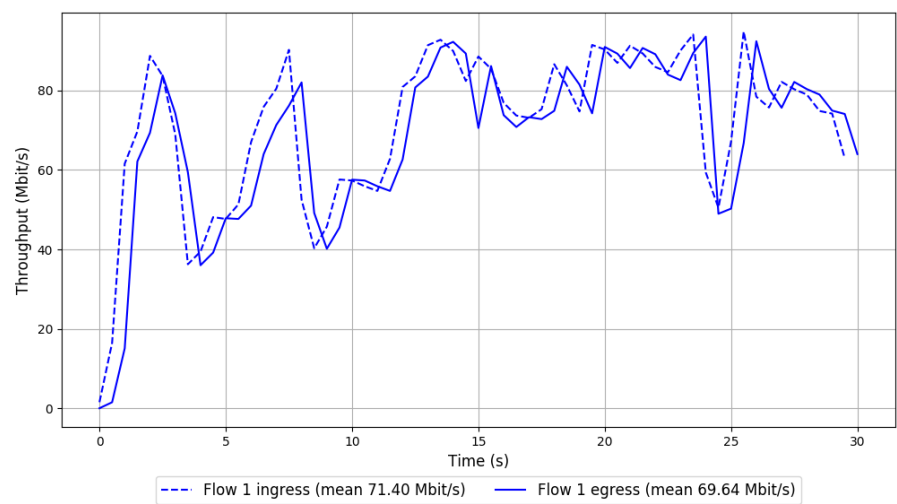


Run 7: Statistics of PCC-Vivace

Start at: 2018-08-27 22:41:15  
End at: 2018-08-27 22:41:45  
Local clock offset: 1.78 ms  
Remote clock offset: -3.422 ms

# Below is generated by plot.py at 2018-08-27 23:59:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 69.64 Mbit/s  
95th percentile per-packet one-way delay: 7.305 ms  
Loss rate: 2.46%  
-- Flow 1:  
Average throughput: 69.64 Mbit/s  
95th percentile per-packet one-way delay: 7.305 ms  
Loss rate: 2.46%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-08-27 22:59:59

End at: 2018-08-27 23:00:29

Local clock offset: 0.932 ms

Remote clock offset: -2.8 ms

# Below is generated by plot.py at 2018-08-27 23:59:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 68.18 Mbit/s

95th percentile per-packet one-way delay: 9.668 ms

Loss rate: 5.21%

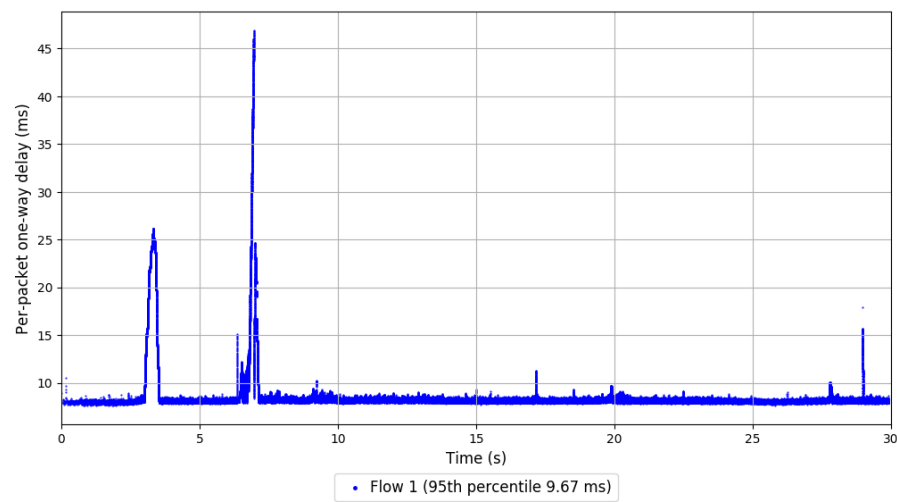
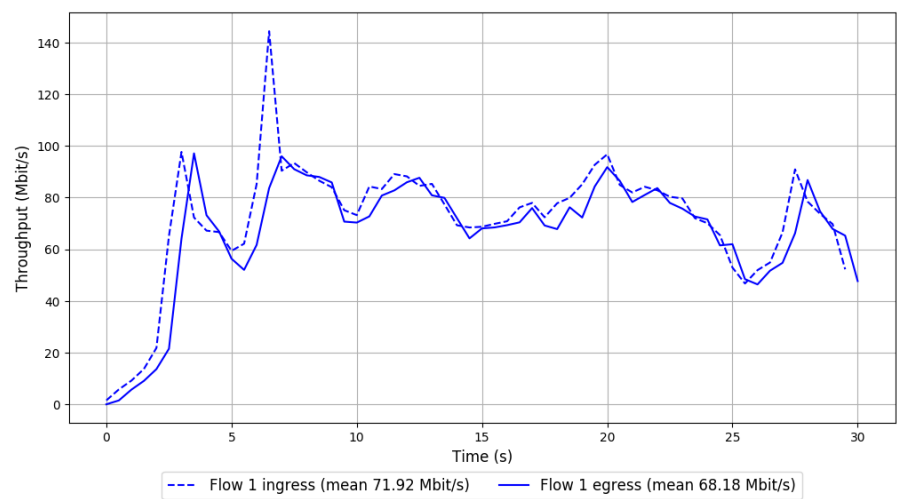
-- Flow 1:

Average throughput: 68.18 Mbit/s

95th percentile per-packet one-way delay: 9.668 ms

Loss rate: 5.21%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-08-27 23:18:42

End at: 2018-08-27 23:19:12

Local clock offset: 0.888 ms

Remote clock offset: -2.772 ms

# Below is generated by plot.py at 2018-08-27 23:59:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 62.87 Mbit/s

95th percentile per-packet one-way delay: 9.287 ms

Loss rate: 4.60%

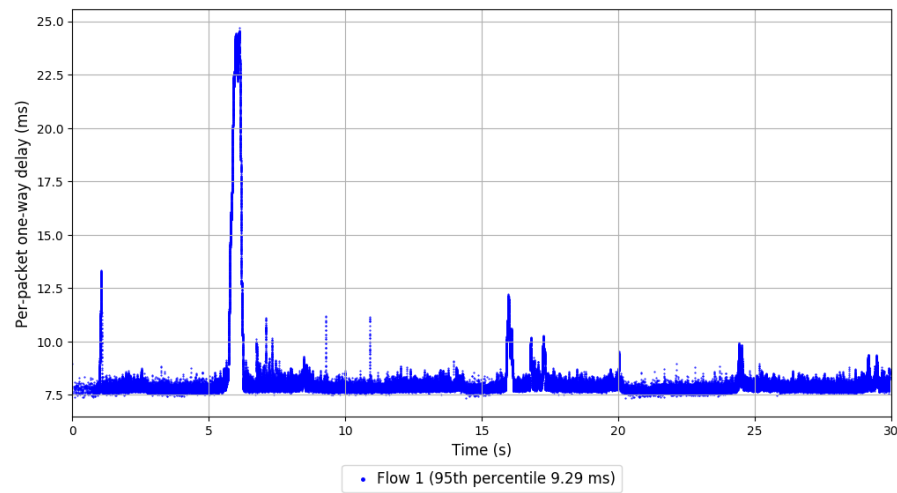
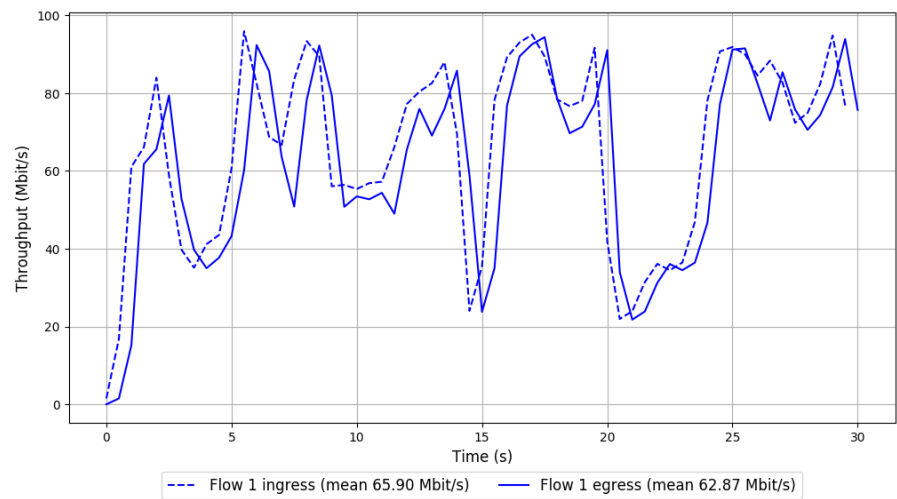
-- Flow 1:

Average throughput: 62.87 Mbit/s

95th percentile per-packet one-way delay: 9.287 ms

Loss rate: 4.60%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-08-27 23:37:27

End at: 2018-08-27 23:37:57

Local clock offset: 2.52 ms

Remote clock offset: -2.972 ms

# Below is generated by plot.py at 2018-08-27 23:59:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 78.07 Mbit/s

95th percentile per-packet one-way delay: 6.565 ms

Loss rate: 2.79%

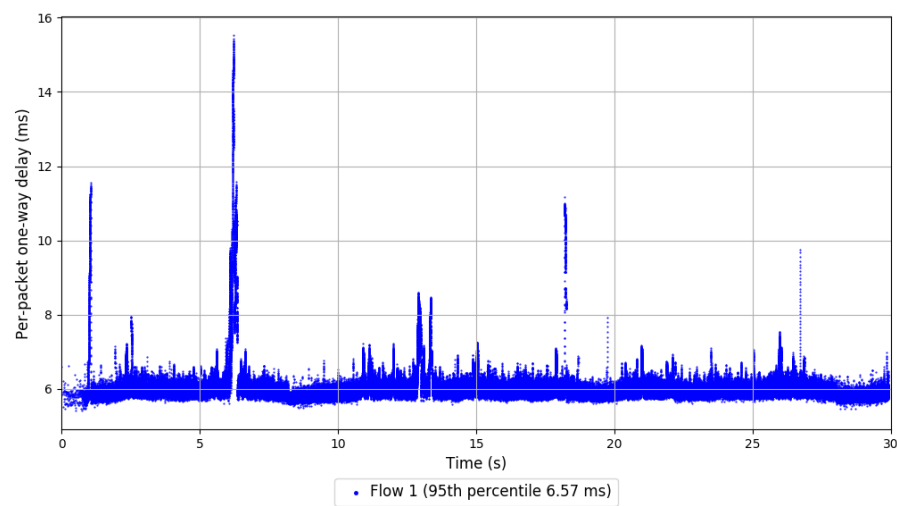
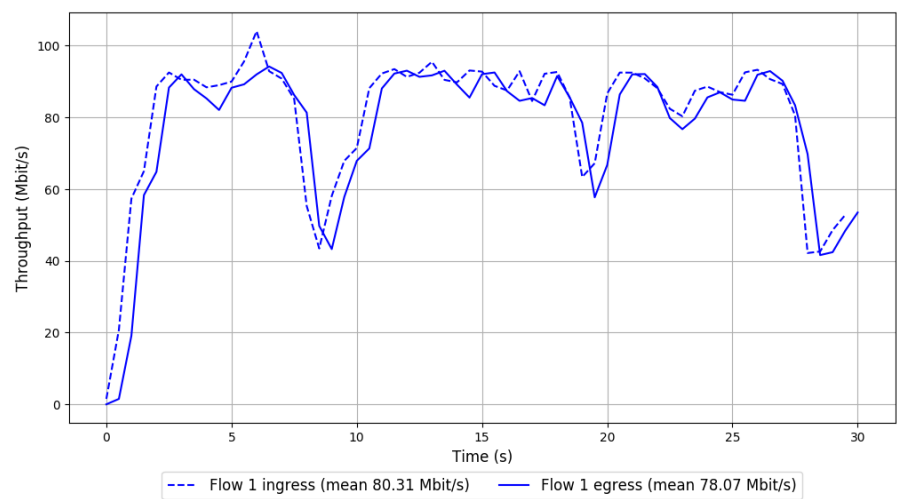
-- Flow 1:

Average throughput: 78.07 Mbit/s

95th percentile per-packet one-way delay: 6.565 ms

Loss rate: 2.79%

Run 10: Report of PCC-Vivace — Data Link

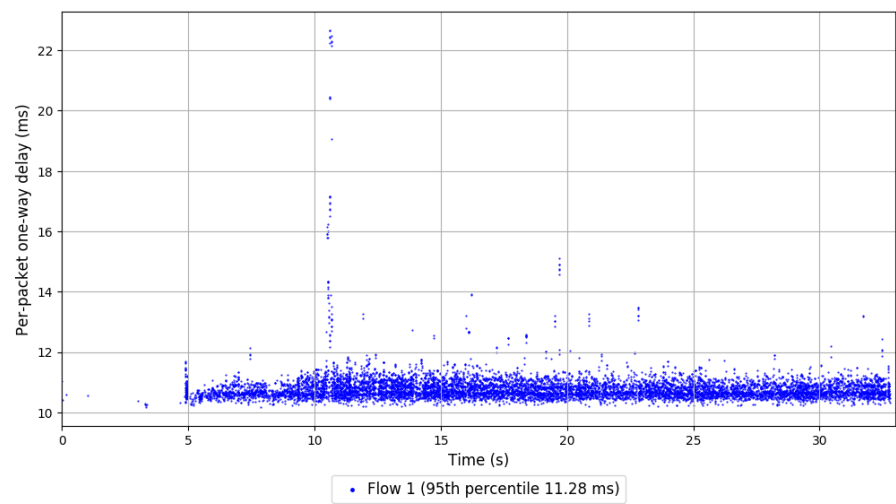
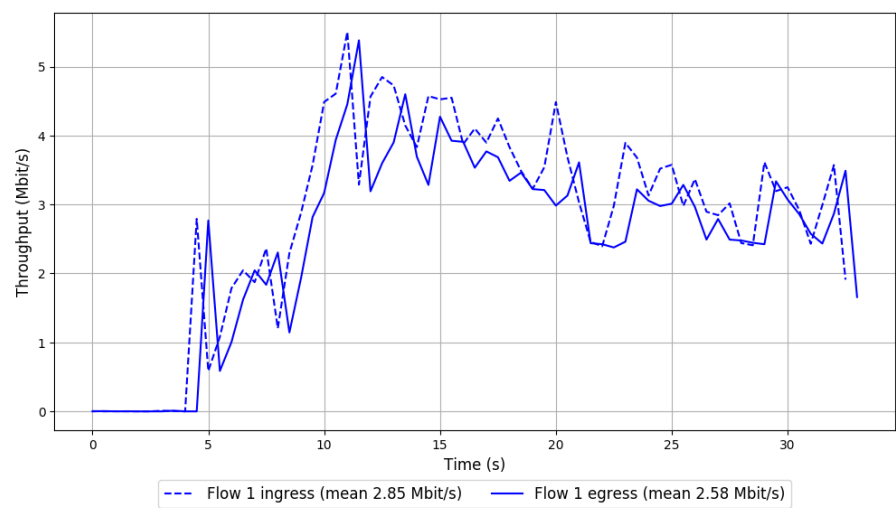


Run 1: Statistics of WebRTC media

Start at: 2018-08-27 20:56:27  
End at: 2018-08-27 20:56:57  
Local clock offset: -0.593 ms  
Remote clock offset: -3.055 ms

# Below is generated by plot.py at 2018-08-27 23:59:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.58 Mbit/s  
95th percentile per-packet one-way delay: 11.278 ms  
Loss rate: 9.65%  
-- Flow 1:  
Average throughput: 2.58 Mbit/s  
95th percentile per-packet one-way delay: 11.278 ms  
Loss rate: 9.65%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-08-27 21:15:09

End at: 2018-08-27 21:15:39

Local clock offset: -0.249 ms

Remote clock offset: -2.9 ms

# Below is generated by plot.py at 2018-08-27 23:59:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.64 Mbit/s

95th percentile per-packet one-way delay: 10.726 ms

Loss rate: 6.56%

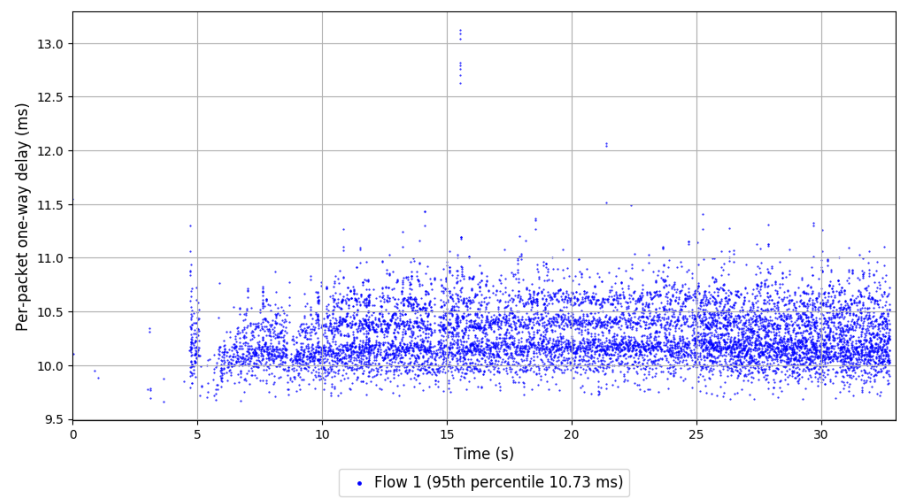
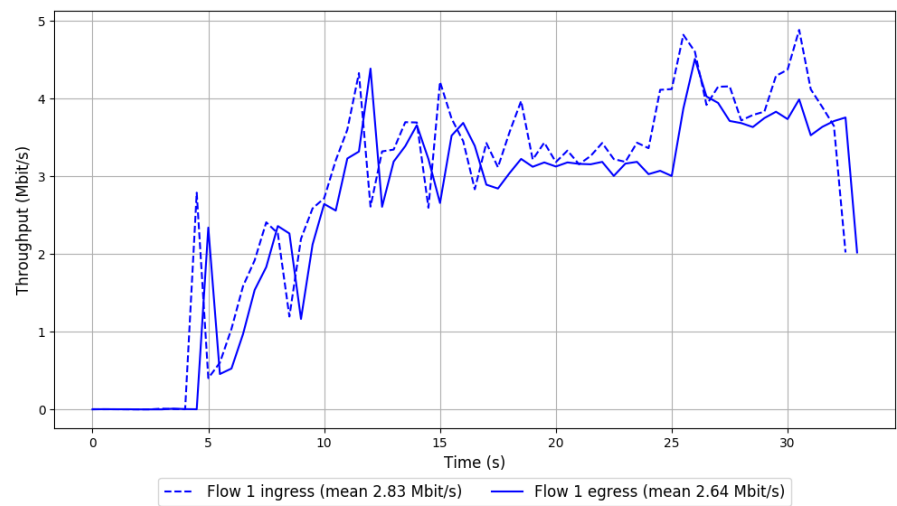
-- Flow 1:

Average throughput: 2.64 Mbit/s

95th percentile per-packet one-way delay: 10.726 ms

Loss rate: 6.56%

Run 2: Report of WebRTC media — Data Link

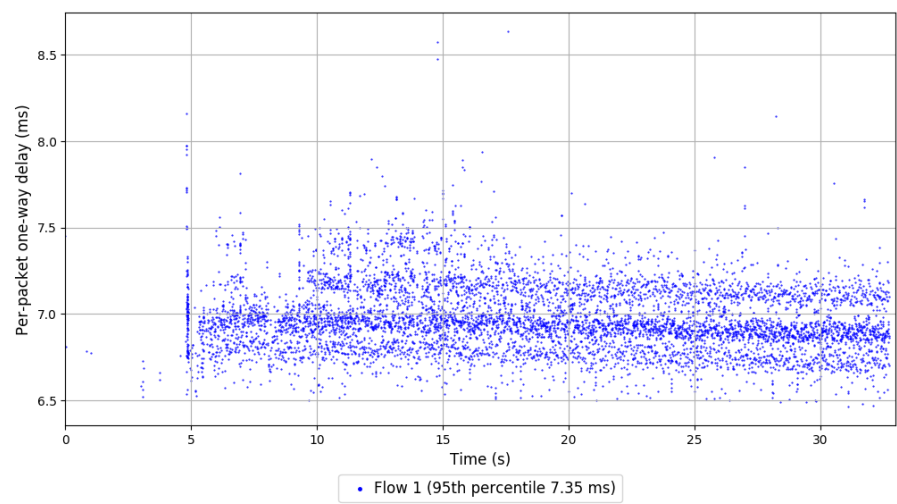
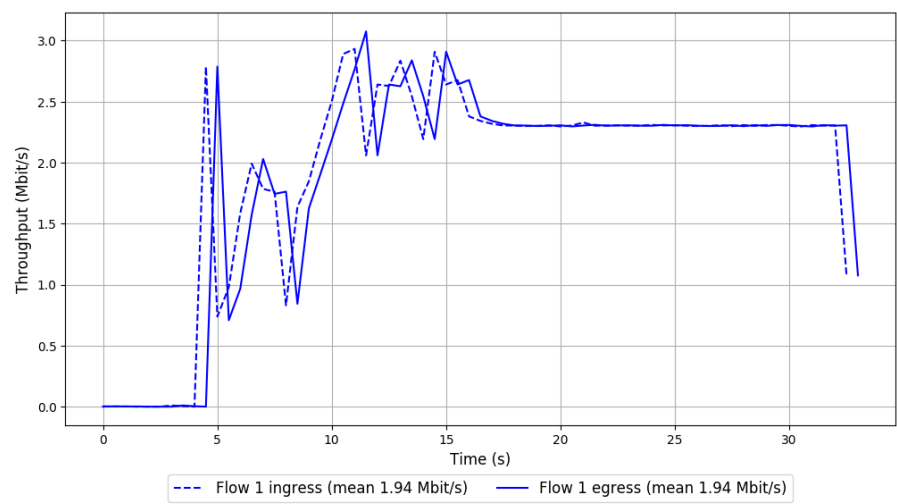


Run 3: Statistics of WebRTC media

Start at: 2018-08-27 21:33:48  
End at: 2018-08-27 21:34:18  
Local clock offset: 2.967 ms  
Remote clock offset: -2.608 ms

# Below is generated by plot.py at 2018-08-27 23:59:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.94 Mbit/s  
95th percentile per-packet one-way delay: 7.351 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 1.94 Mbit/s  
95th percentile per-packet one-way delay: 7.351 ms  
Loss rate: 0.02%

Run 3: Report of WebRTC media — Data Link

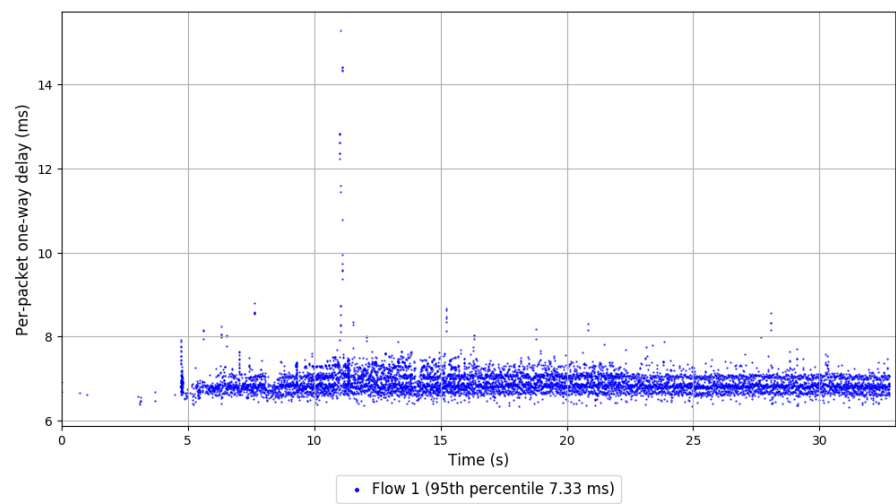
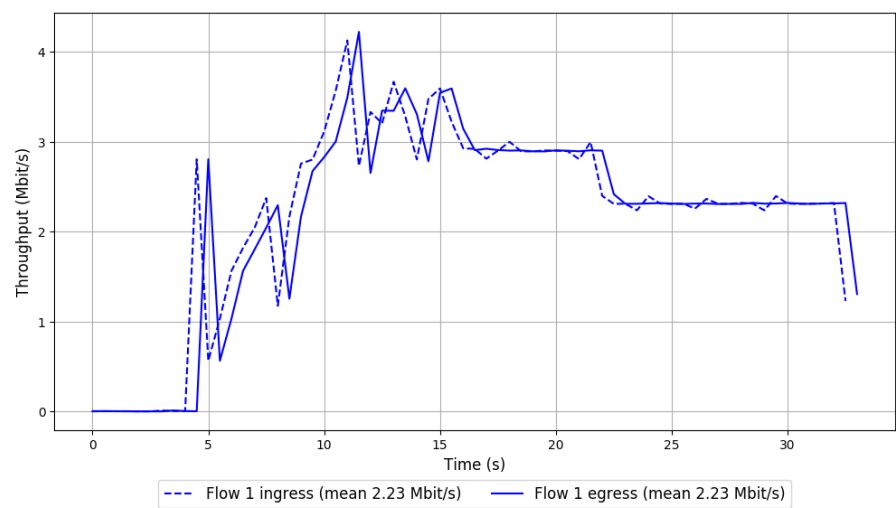


Run 4: Statistics of WebRTC media

Start at: 2018-08-27 21:52:37  
End at: 2018-08-27 21:53:07  
Local clock offset: 2.259 ms  
Remote clock offset: -2.699 ms

# Below is generated by plot.py at 2018-08-27 23:59:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.23 Mbit/s  
95th percentile per-packet one-way delay: 7.327 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 2.23 Mbit/s  
95th percentile per-packet one-way delay: 7.327 ms  
Loss rate: 0.06%

Run 4: Report of WebRTC media — Data Link

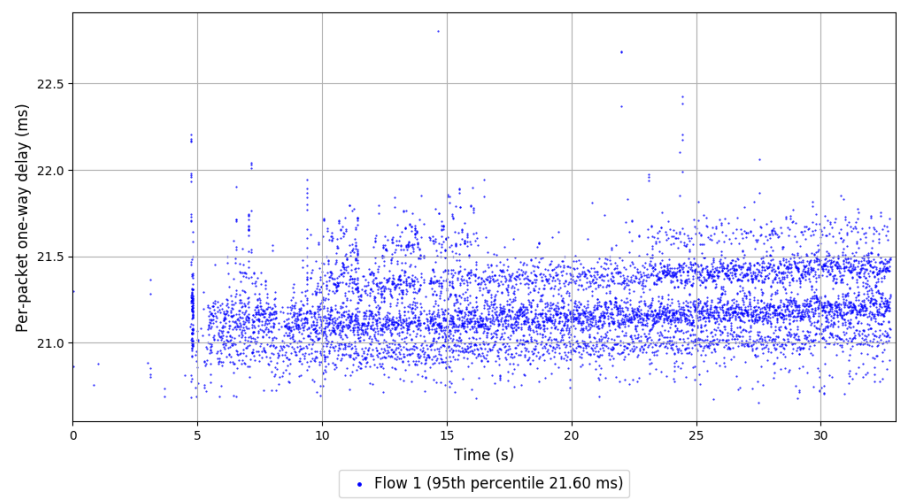
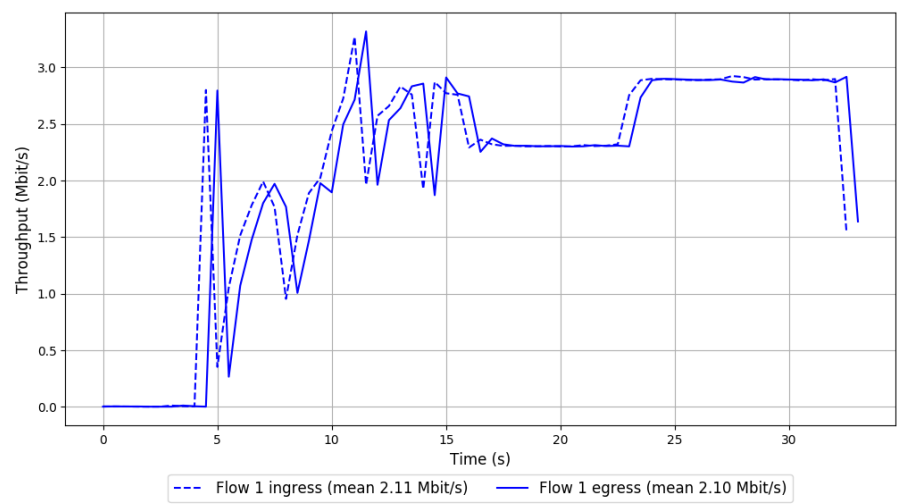


Run 5: Statistics of WebRTC media

Start at: 2018-08-27 22:11:31  
End at: 2018-08-27 22:12:01  
Local clock offset: -2.007 ms  
Remote clock offset: -2.459 ms

# Below is generated by plot.py at 2018-08-27 23:59:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.10 Mbit/s  
95th percentile per-packet one-way delay: 21.601 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 2.10 Mbit/s  
95th percentile per-packet one-way delay: 21.601 ms  
Loss rate: 0.07%

Run 5: Report of WebRTC media — Data Link

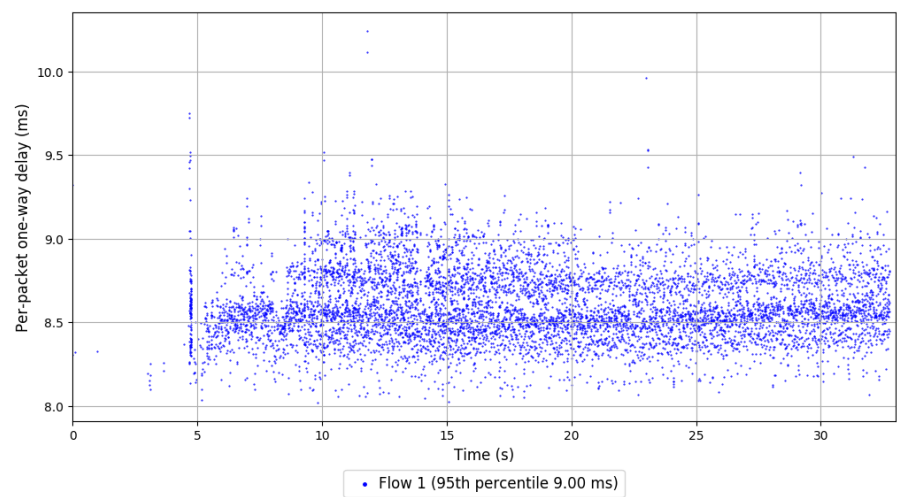
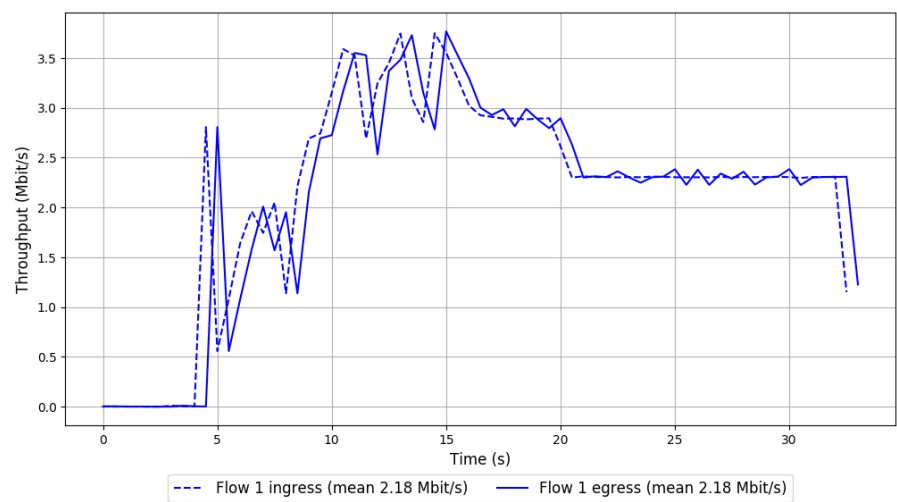


Run 6: Statistics of WebRTC media

Start at: 2018-08-27 22:30:17  
End at: 2018-08-27 22:30:47  
Local clock offset: 0.314 ms  
Remote clock offset: -3.171 ms

# Below is generated by plot.py at 2018-08-27 23:59:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.18 Mbit/s  
95th percentile per-packet one-way delay: 9.003 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 2.18 Mbit/s  
95th percentile per-packet one-way delay: 9.003 ms  
Loss rate: 0.24%

Run 6: Report of WebRTC media — Data Link

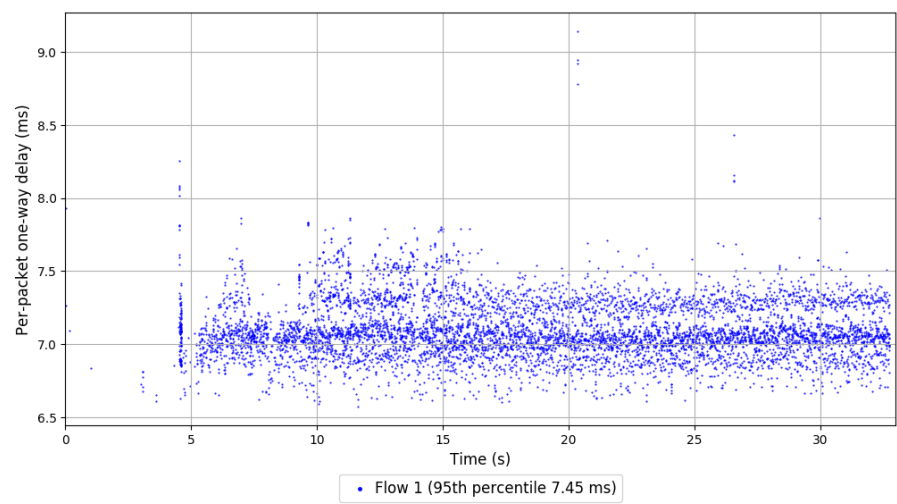
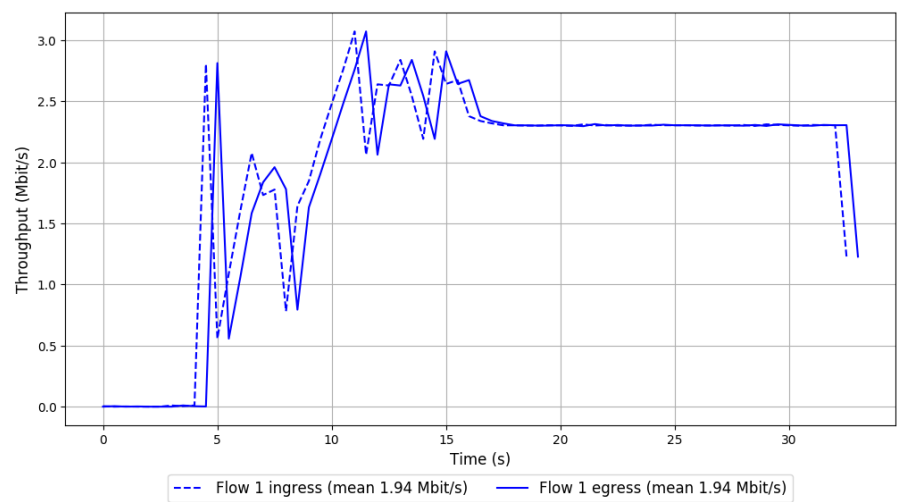


Run 7: Statistics of WebRTC media

Start at: 2018-08-27 22:49:00  
End at: 2018-08-27 22:49:30  
Local clock offset: 1.943 ms  
Remote clock offset: -2.798 ms

# Below is generated by plot.py at 2018-08-27 23:59:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.94 Mbit/s  
95th percentile per-packet one-way delay: 7.453 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.94 Mbit/s  
95th percentile per-packet one-way delay: 7.453 ms  
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-08-27 23:07:43

End at: 2018-08-27 23:08:13

Local clock offset: 2.051 ms

Remote clock offset: -3.366 ms

# Below is generated by plot.py at 2018-08-27 23:59:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 6.667 ms

Loss rate: 0.06%

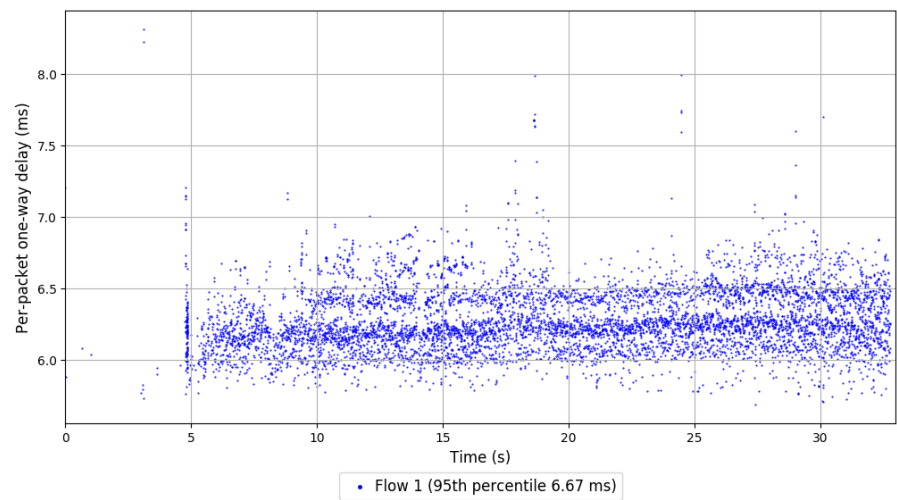
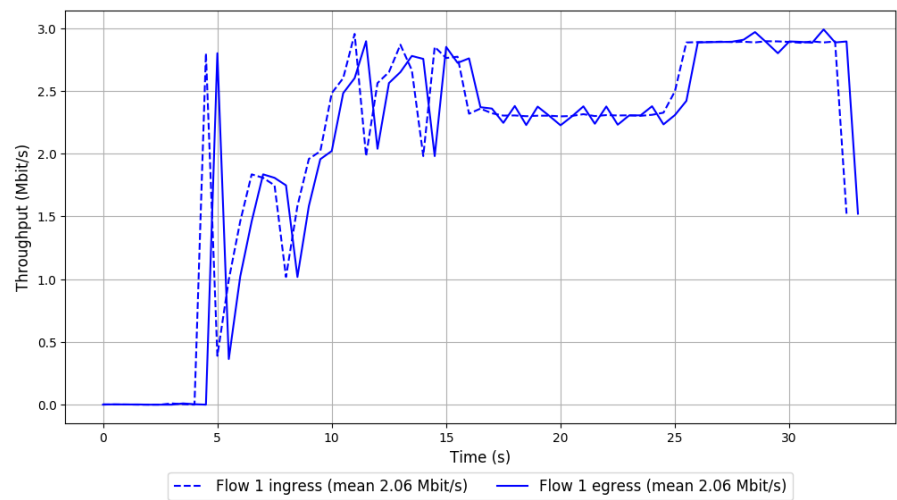
-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 6.667 ms

Loss rate: 0.06%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-08-27 23:26:28

End at: 2018-08-27 23:26:58

Local clock offset: 3.608 ms

Remote clock offset: -3.036 ms

# Below is generated by plot.py at 2018-08-27 23:59:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 5.268 ms

Loss rate: 0.00%

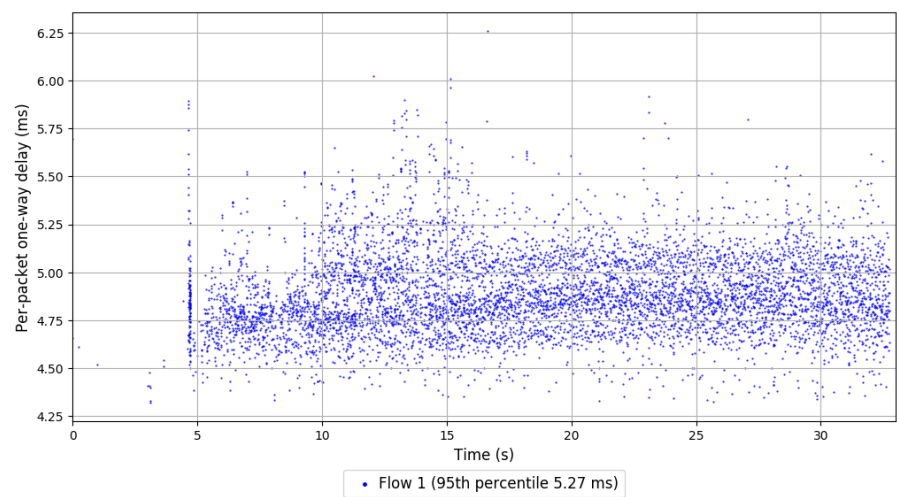
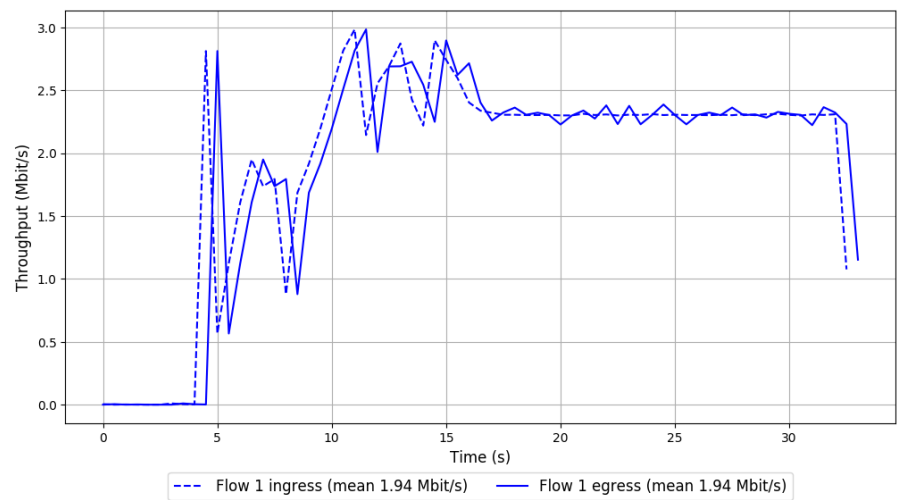
-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 5.268 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-08-27 23:45:16

End at: 2018-08-27 23:45:46

Local clock offset: 0.014 ms

Remote clock offset: -2.486 ms

# Below is generated by plot.py at 2018-08-27 23:59:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.65 Mbit/s

95th percentile per-packet one-way delay: 10.672 ms

Loss rate: 1.57%

-- Flow 1:

Average throughput: 2.65 Mbit/s

95th percentile per-packet one-way delay: 10.672 ms

Loss rate: 1.57%

Run 10: Report of WebRTC media — Data Link

