

## Pantheon Report

Generated at 2019-03-08 23:29:00 (UTC).

Data path: AWS Brazil 1 on `ens5` (*local*) → Brazil on `p4p1` (*remote*).

Repeated the test of 21 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

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

### System info:

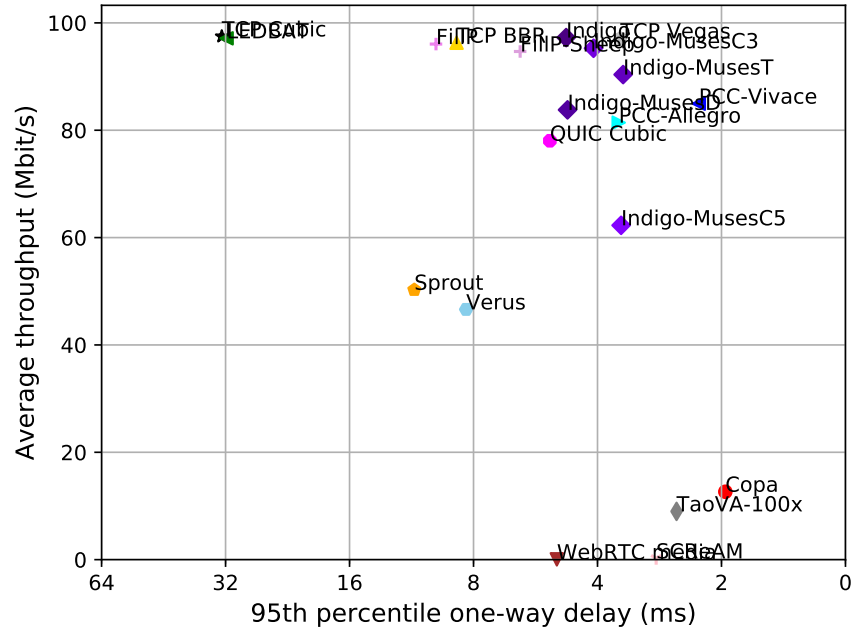
```
Linux 4.15.0-1031-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

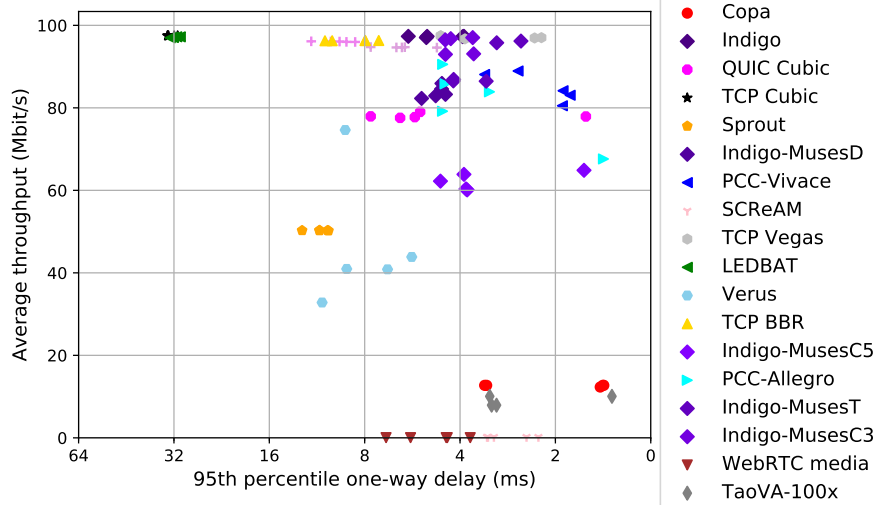
```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
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-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third\_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from AWS Brazil 1 to Brazil, 5 runs of 30s each per scheme  
(mean of all runs by scheme)



test from AWS Brazil 1 to Brazil, 5 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        | 5      | 96.30                            | 8.79                                | 0.00                         |
| Copa           | 5      | 12.65                            | 1.94                                | 66.42                        |
| TCP Cubic      | 5      | 97.48                            | 32.68                               | 0.01                         |
| FillP          | 5      | 96.05                            | 9.87                                | 0.29                         |
| FillP-Sheep    | 5      | 94.67                            | 6.16                                | 0.08                         |
| Indigo         | 5      | 97.26                            | 4.77                                | 0.00                         |
| Indigo-MusesC3 | 5      | 95.27                            | 4.09                                | 0.01                         |
| Indigo-MusesC5 | 5      | 62.28                            | 3.51                                | 0.00                         |
| Indigo-MusesD  | 5      | 83.80                            | 4.73                                | 0.00                         |
| Indigo-MusesT  | 5      | 90.37                            | 3.47                                | 0.00                         |
| LEDBAT         | 5      | 97.12                            | 31.82                               | 0.01                         |
| PCC-Allegro    | 5      | 81.41                            | 3.55                                | 0.00                         |
| PCC-Expr       | 0      | N/A                              | N/A                                 | N/A                          |
| QUIC Cubic     | 5      | 78.04                            | 5.22                                | 0.32                         |
| SCReAM         | 5      | 0.22                             | 2.88                                | 0.03                         |
| Sprout         | 5      | 50.27                            | 11.14                               | 0.00                         |
| TaoVA-100x     | 4      | 8.99                             | 2.57                                | 77.04                        |
| TCP Vegas      | 5      | 97.12                            | 3.52                                | 0.00                         |
| Verus          | 5      | 46.62                            | 8.34                                | 1.53                         |
| PCC-Vivace     | 5      | 84.95                            | 2.27                                | 0.00                         |
| WebRTC media   | 5      | 0.05                             | 5.02                                | 0.00                         |

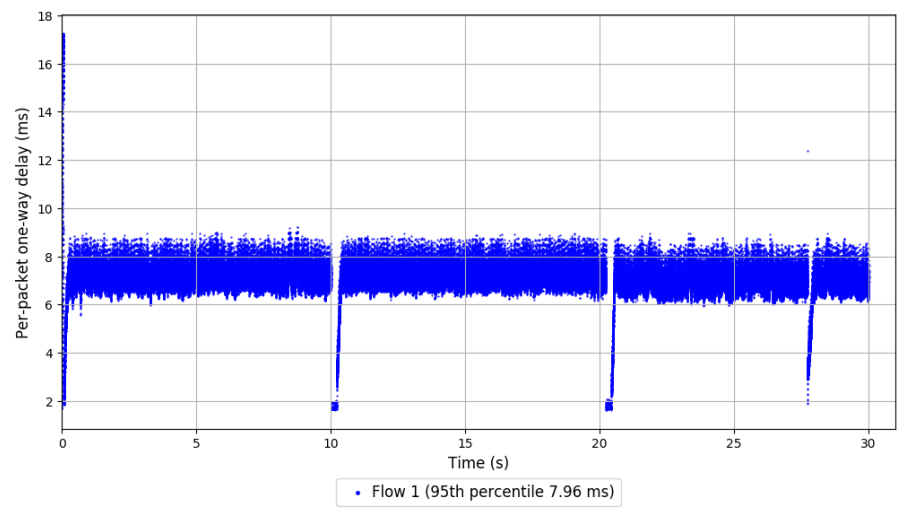
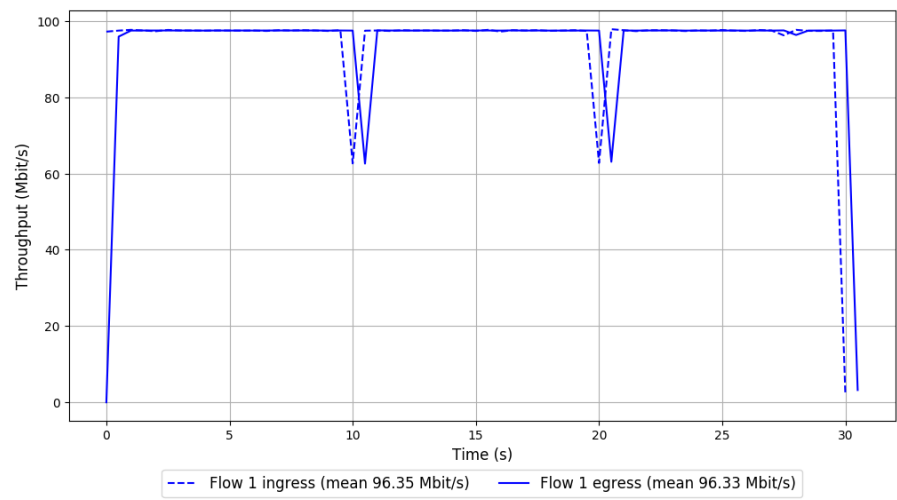


Run 1: Statistics of TCP BBR

Start at: 2019-03-08 21:23:06  
End at: 2019-03-08 21:23:36  
Local clock offset: -6.336 ms  
Remote clock offset: -0.329 ms

# Below is generated by plot.py at 2019-03-08 23:19:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.33 Mbit/s  
95th percentile per-packet one-way delay: 7.963 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 96.33 Mbit/s  
95th percentile per-packet one-way delay: 7.963 ms  
Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-03-08 21:46:33

End at: 2019-03-08 21:47:03

Local clock offset: -6.445 ms

Remote clock offset: -0.244 ms

# Below is generated by plot.py at 2019-03-08 23:19:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.32 Mbit/s

95th percentile per-packet one-way delay: 7.978 ms

Loss rate: 0.00%

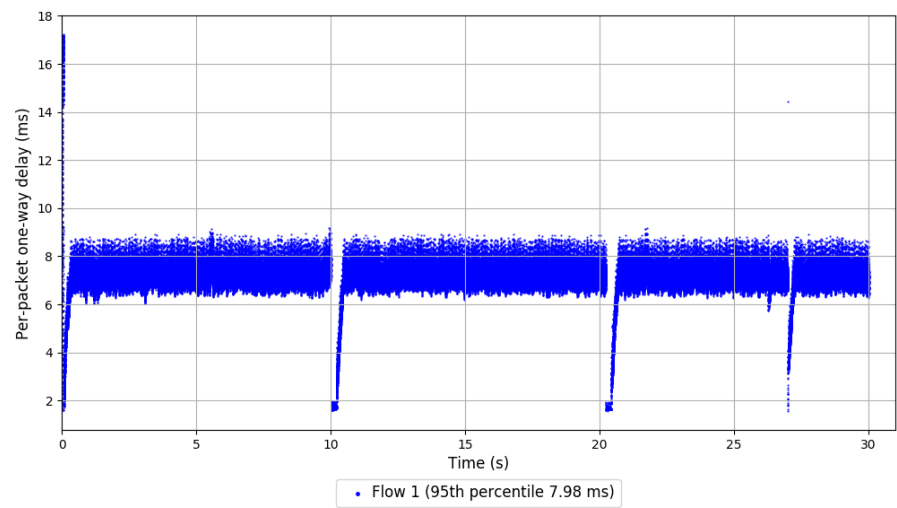
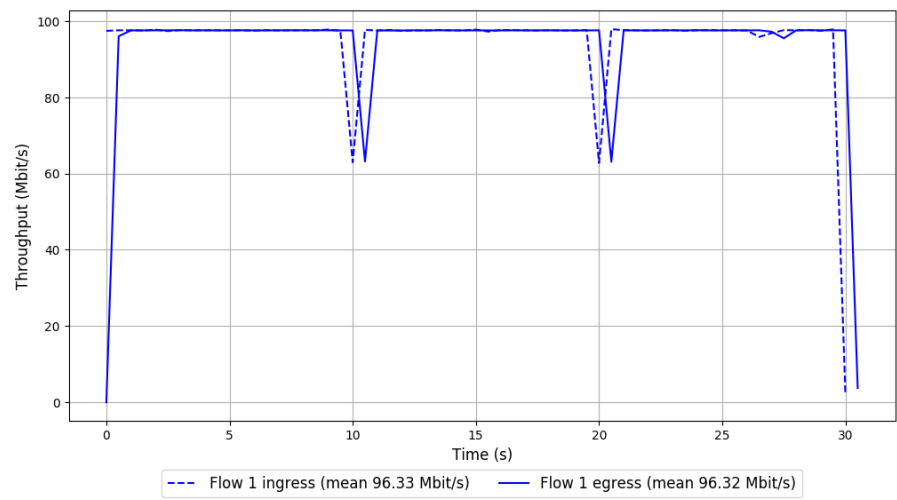
-- Flow 1:

Average throughput: 96.32 Mbit/s

95th percentile per-packet one-way delay: 7.978 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link

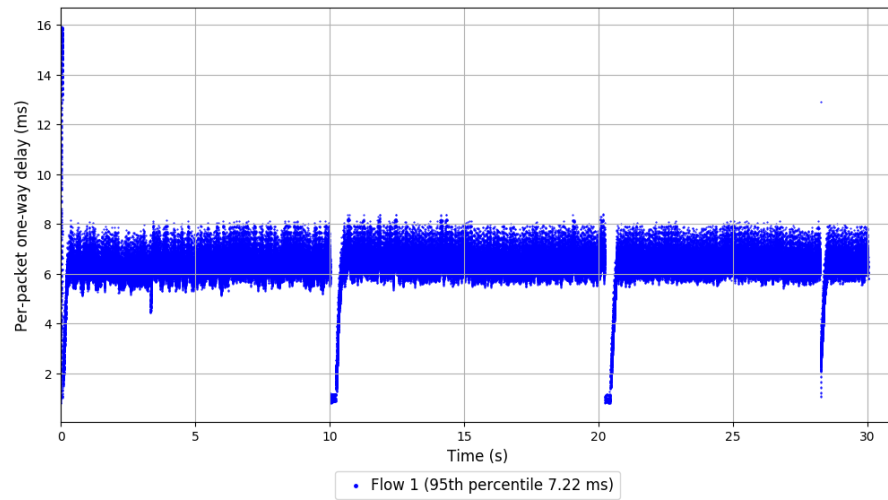
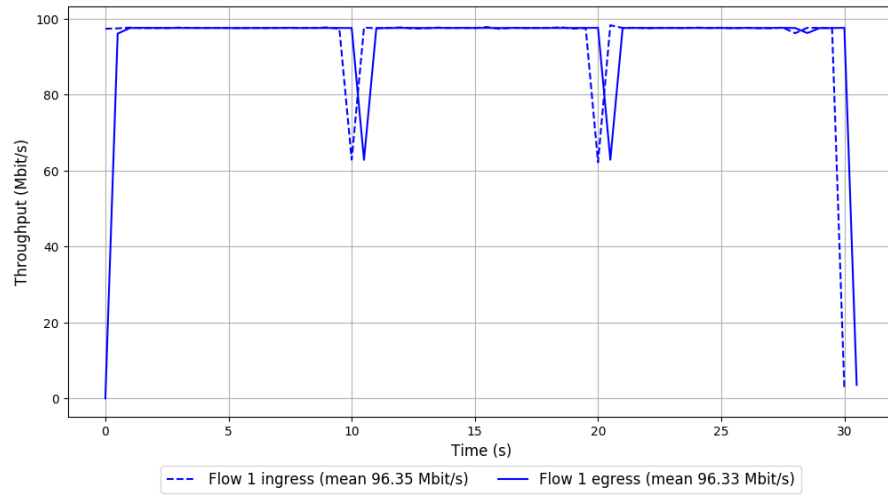


Run 3: Statistics of TCP BBR

Start at: 2019-03-08 22:09:59  
End at: 2019-03-08 22:10:29  
Local clock offset: -6.618 ms  
Remote clock offset: -0.163 ms

# Below is generated by plot.py at 2019-03-08 23:19:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.33 Mbit/s  
95th percentile per-packet one-way delay: 7.223 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 96.33 Mbit/s  
95th percentile per-packet one-way delay: 7.223 ms  
Loss rate: 0.00%

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

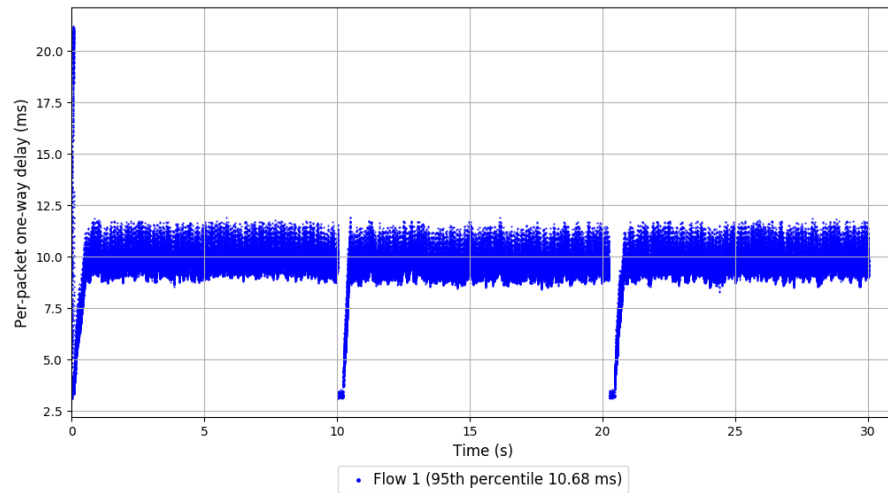
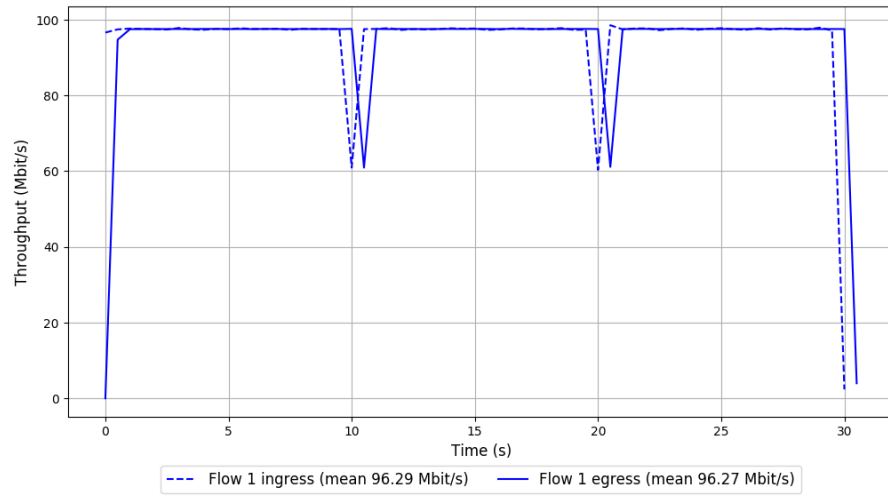


Run 4: Statistics of TCP BBR

Start at: 2019-03-08 22:33:26  
End at: 2019-03-08 22:33:56  
Local clock offset: -5.922 ms  
Remote clock offset: -0.139 ms

# Below is generated by plot.py at 2019-03-08 23:19:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.27 Mbit/s  
95th percentile per-packet one-way delay: 10.678 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 96.27 Mbit/s  
95th percentile per-packet one-way delay: 10.678 ms  
Loss rate: 0.00%

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





Run 5: Statistics of TCP BBR

Start at: 2019-03-08 22:56:52

End at: 2019-03-08 22:57:22

Local clock offset: -4.978 ms

Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2019-03-08 23:19:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 10.133 ms

Loss rate: 0.00%

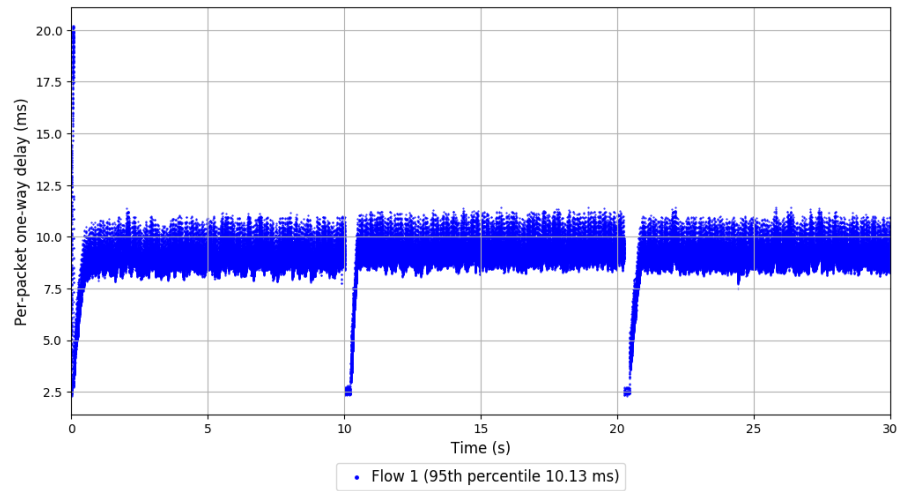
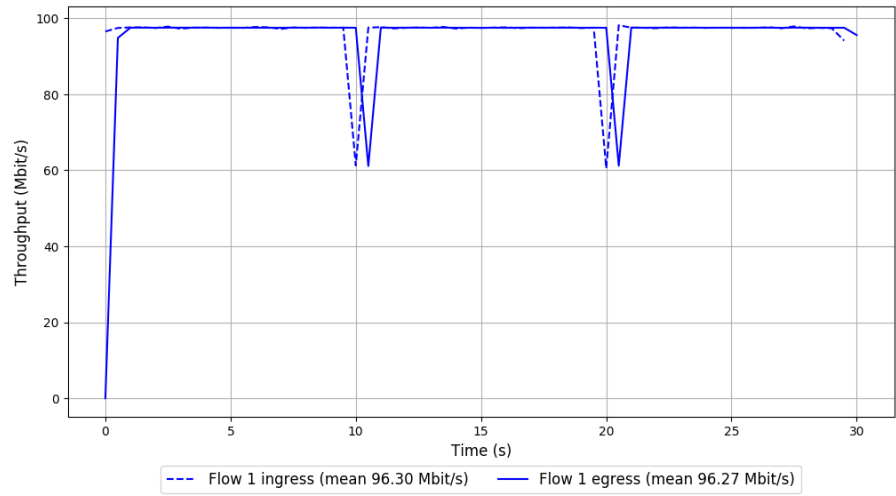
-- Flow 1:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 10.133 ms

Loss rate: 0.00%

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

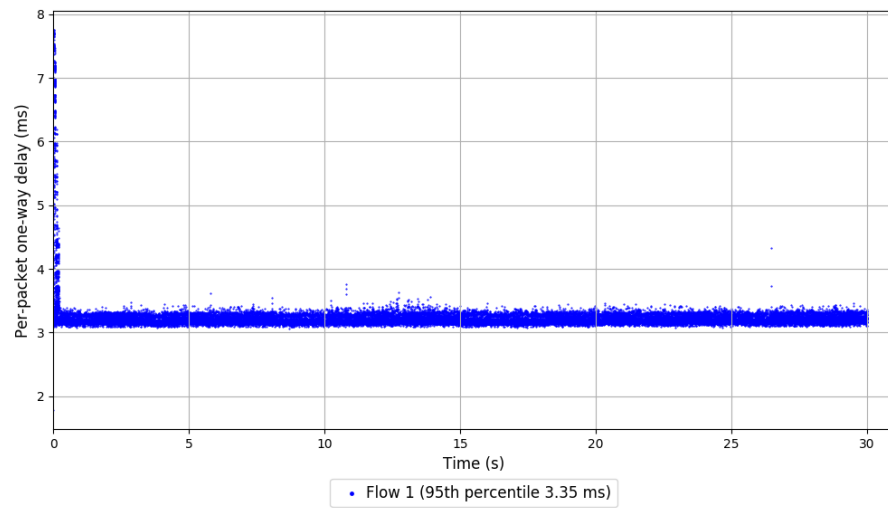
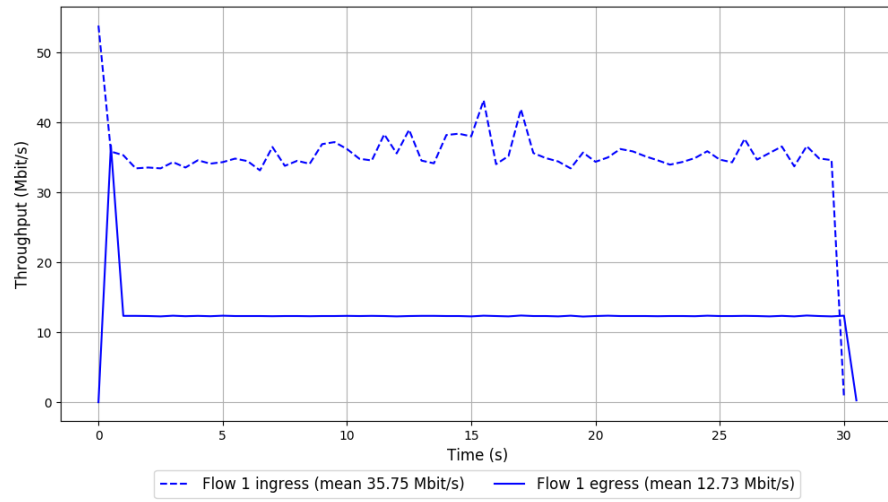


Run 1: Statistics of Copa

Start at: 2019-03-08 21:22:01  
End at: 2019-03-08 21:22:31  
Local clock offset: -6.288 ms  
Remote clock offset: -0.245 ms

# Below is generated by plot.py at 2019-03-08 23:19:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.73 Mbit/s  
95th percentile per-packet one-way delay: 3.345 ms  
Loss rate: 64.39%  
-- Flow 1:  
Average throughput: 12.73 Mbit/s  
95th percentile per-packet one-way delay: 3.345 ms  
Loss rate: 64.39%

### Run 1: Report of Copa — Data Link

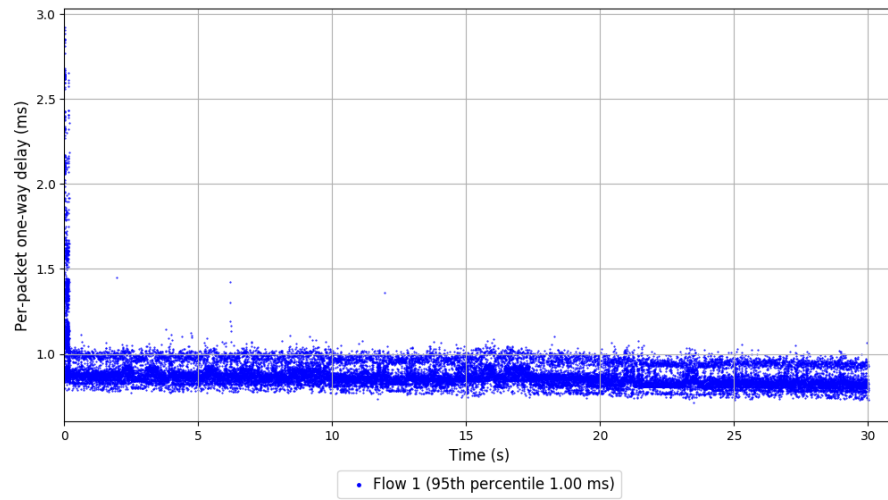
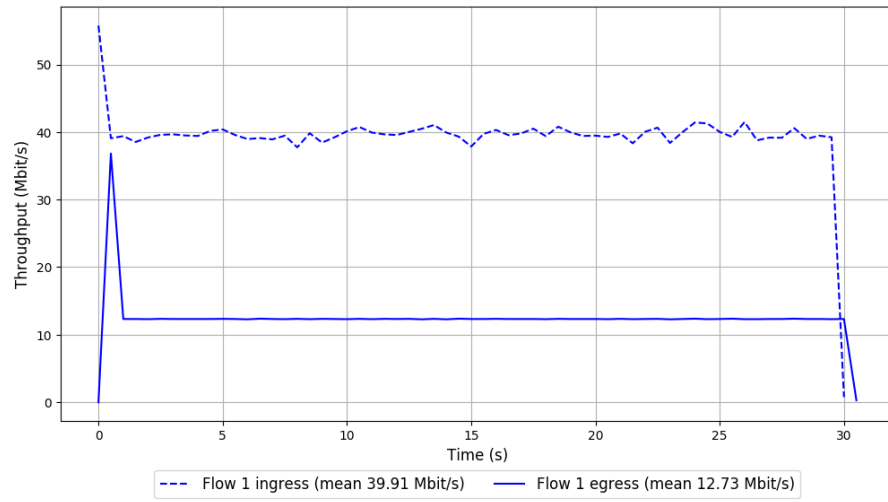


Run 2: Statistics of Copa

Start at: 2019-03-08 21:45:27  
End at: 2019-03-08 21:45:57  
Local clock offset: -5.542 ms  
Remote clock offset: -0.238 ms

# Below is generated by plot.py at 2019-03-08 23:19:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.73 Mbit/s  
95th percentile per-packet one-way delay: 1.005 ms  
Loss rate: 68.10%  
-- Flow 1:  
Average throughput: 12.73 Mbit/s  
95th percentile per-packet one-way delay: 1.005 ms  
Loss rate: 68.10%

## Run 2: Report of Copa — Data Link

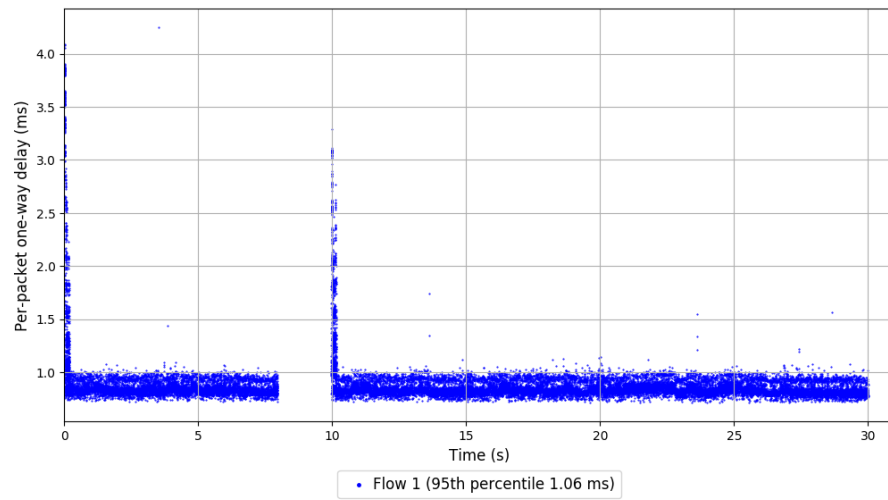
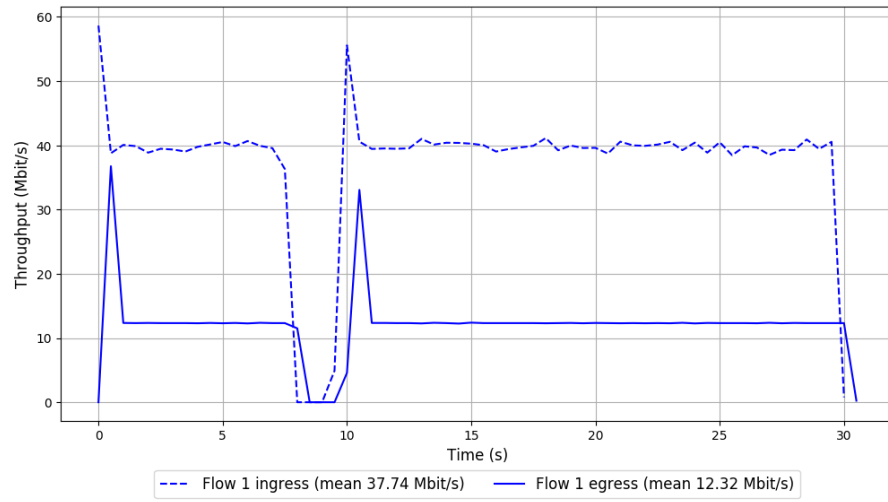


Run 3: Statistics of Copa

Start at: 2019-03-08 22:08:54  
End at: 2019-03-08 22:09:24  
Local clock offset: -6.615 ms  
Remote clock offset: -0.217 ms

# Below is generated by plot.py at 2019-03-08 23:19:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.32 Mbit/s  
95th percentile per-packet one-way delay: 1.060 ms  
Loss rate: 67.37%  
-- Flow 1:  
Average throughput: 12.32 Mbit/s  
95th percentile per-packet one-way delay: 1.060 ms  
Loss rate: 67.37%

### Run 3: Report of Copa — Data Link



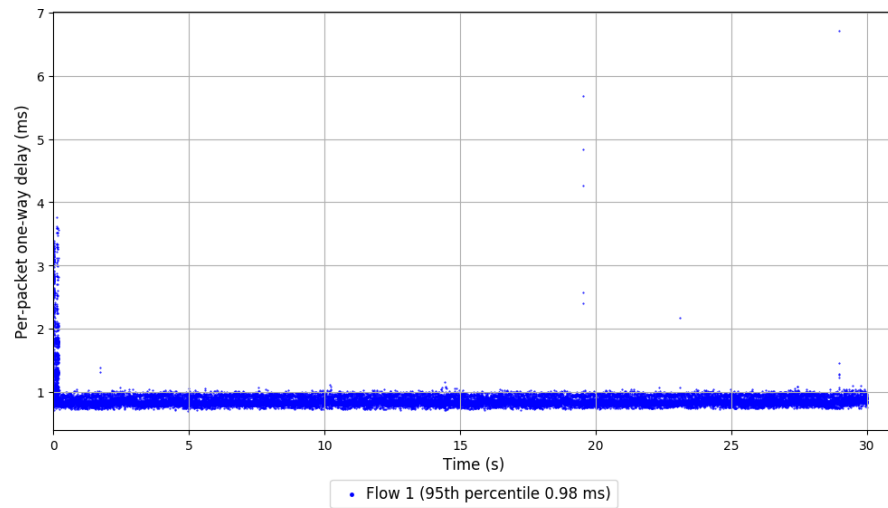
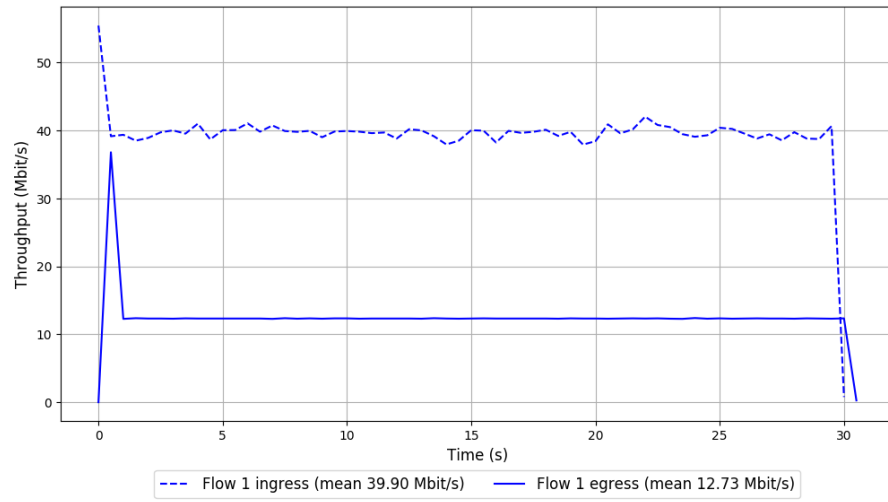


Run 4: Statistics of Copa

Start at: 2019-03-08 22:32:21  
End at: 2019-03-08 22:32:51  
Local clock offset: -5.115 ms  
Remote clock offset: -0.129 ms

# Below is generated by plot.py at 2019-03-08 23:19:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.73 Mbit/s  
95th percentile per-packet one-way delay: 0.985 ms  
Loss rate: 68.10%  
-- Flow 1:  
Average throughput: 12.73 Mbit/s  
95th percentile per-packet one-way delay: 0.985 ms  
Loss rate: 68.10%

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

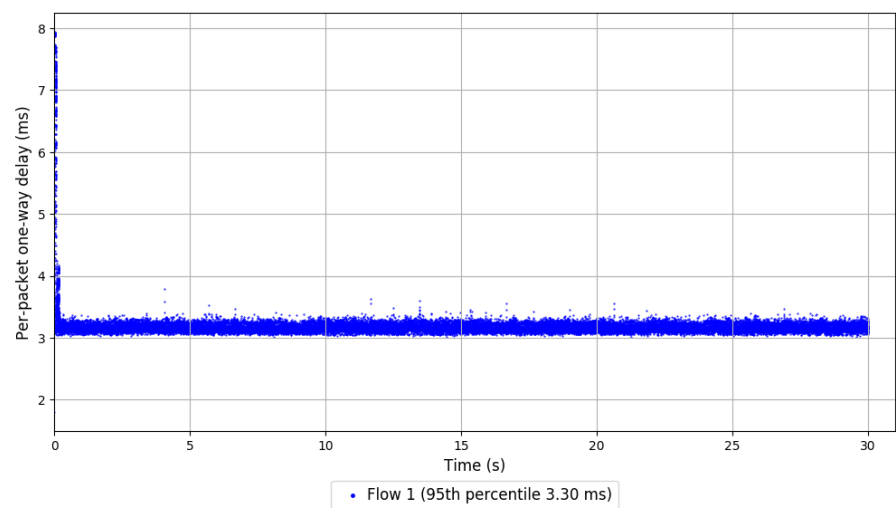
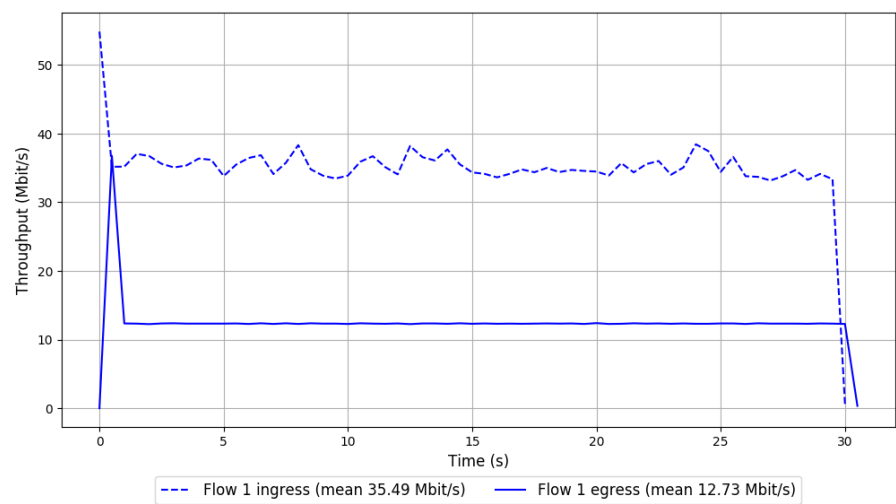


Run 5: Statistics of Copa

Start at: 2019-03-08 22:55:47  
End at: 2019-03-08 22:56:17  
Local clock offset: -5.736 ms  
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2019-03-08 23:19:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.73 Mbit/s  
95th percentile per-packet one-way delay: 3.296 ms  
Loss rate: 64.13%  
-- Flow 1:  
Average throughput: 12.73 Mbit/s  
95th percentile per-packet one-way delay: 3.296 ms  
Loss rate: 64.13%

Run 5: Report of Copa — Data Link

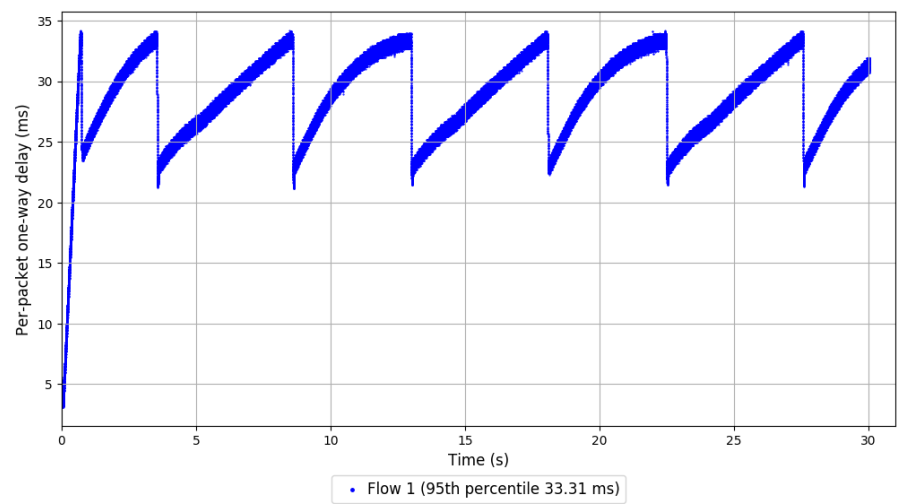
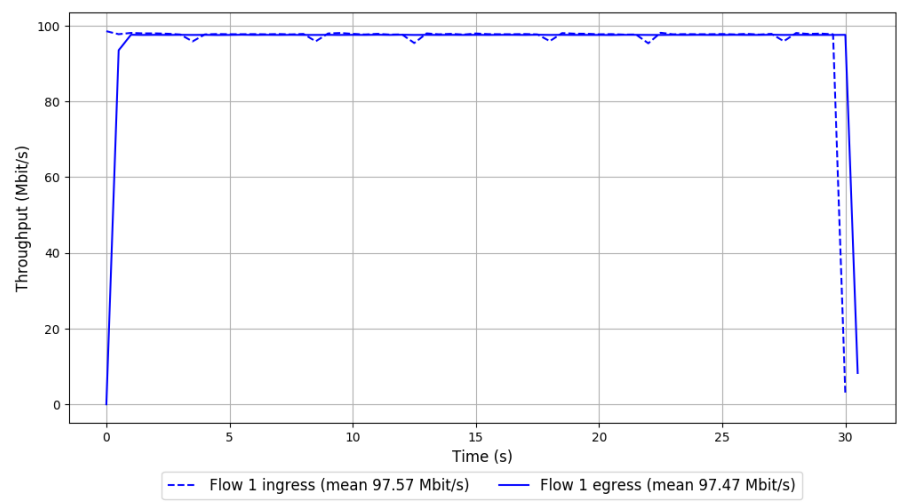


Run 1: Statistics of TCP Cubic

Start at: 2019-03-08 21:37:41  
End at: 2019-03-08 21:38:11  
Local clock offset: -6.182 ms  
Remote clock offset: -0.325 ms

# Below is generated by plot.py at 2019-03-08 23:19:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.47 Mbit/s  
95th percentile per-packet one-way delay: 33.307 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 97.47 Mbit/s  
95th percentile per-packet one-way delay: 33.307 ms  
Loss rate: 0.01%

Run 1: Report of TCP Cubic — Data Link

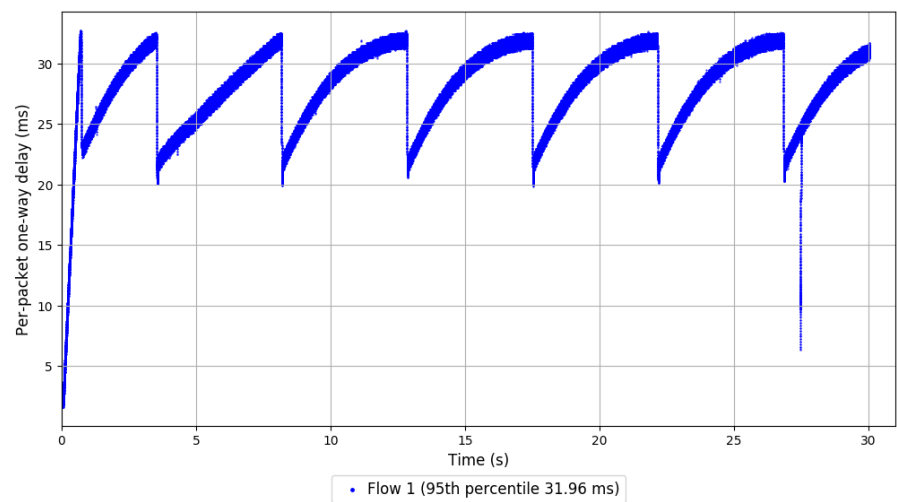
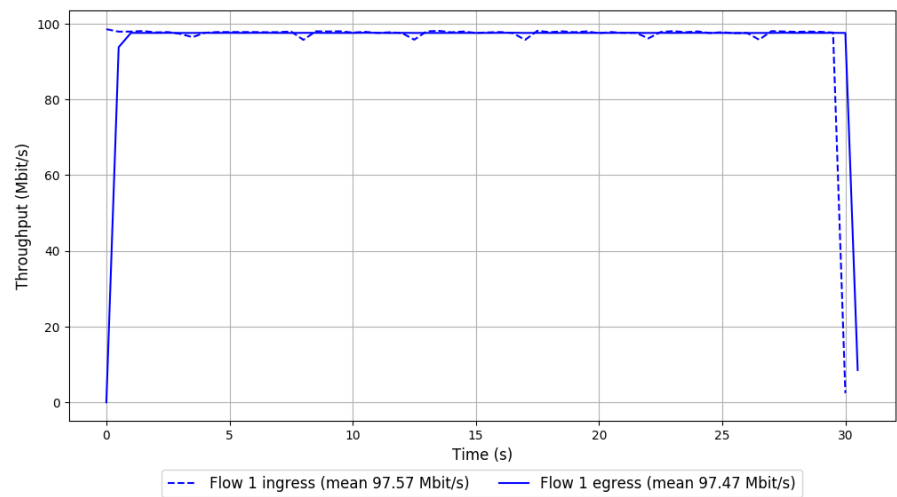


Run 2: Statistics of TCP Cubic

Start at: 2019-03-08 22:01:08  
End at: 2019-03-08 22:01:38  
Local clock offset: -7.171 ms  
Remote clock offset: -0.155 ms

# Below is generated by plot.py at 2019-03-08 23:19:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.47 Mbit/s  
95th percentile per-packet one-way delay: 31.957 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 97.47 Mbit/s  
95th percentile per-packet one-way delay: 31.957 ms  
Loss rate: 0.01%

Run 2: Report of TCP Cubic — Data Link



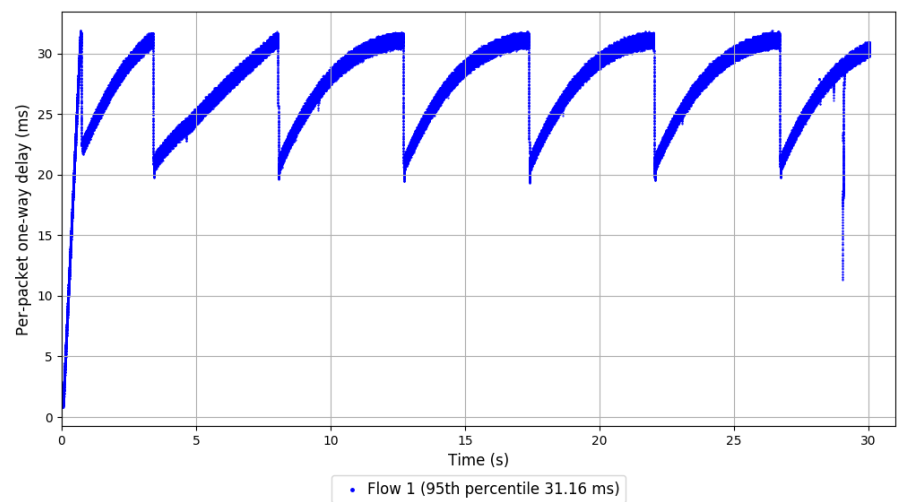
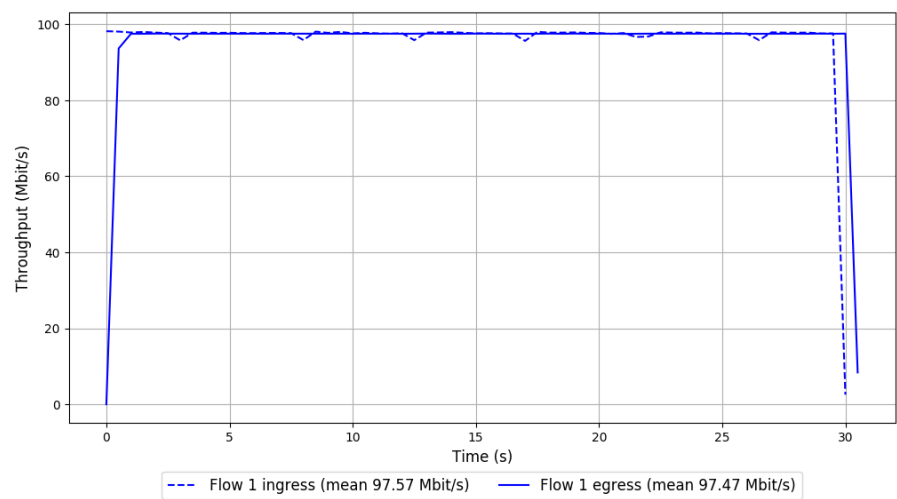


Run 3: Statistics of TCP Cubic

Start at: 2019-03-08 22:24:35  
End at: 2019-03-08 22:25:05  
Local clock offset: -5.468 ms  
Remote clock offset: -0.157 ms

# Below is generated by plot.py at 2019-03-08 23:19:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.47 Mbit/s  
95th percentile per-packet one-way delay: 31.160 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 97.47 Mbit/s  
95th percentile per-packet one-way delay: 31.160 ms  
Loss rate: 0.01%

Run 3: Report of TCP Cubic — Data Link

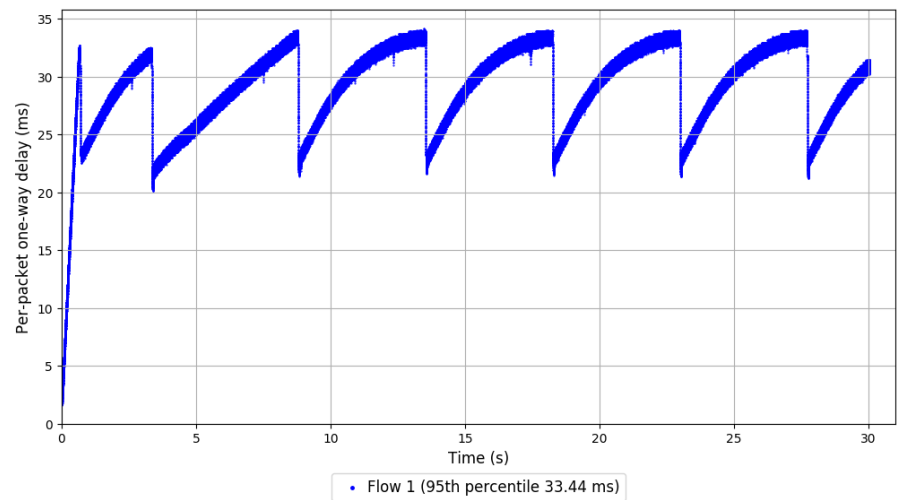
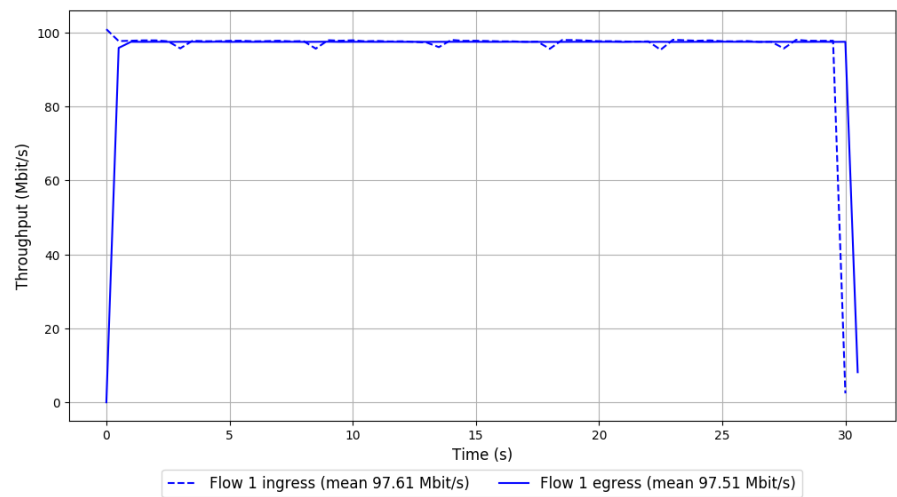


Run 4: Statistics of TCP Cubic

Start at: 2019-03-08 22:48:01  
End at: 2019-03-08 22:48:31  
Local clock offset: -5.757 ms  
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2019-03-08 23:20:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.51 Mbit/s  
95th percentile per-packet one-way delay: 33.443 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 97.51 Mbit/s  
95th percentile per-packet one-way delay: 33.443 ms  
Loss rate: 0.02%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-03-08 23:11:29

End at: 2019-03-08 23:11:59

Local clock offset: -5.787 ms

Remote clock offset: 0.061 ms

# Below is generated by plot.py at 2019-03-08 23:20:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 33.551 ms

Loss rate: 0.01%

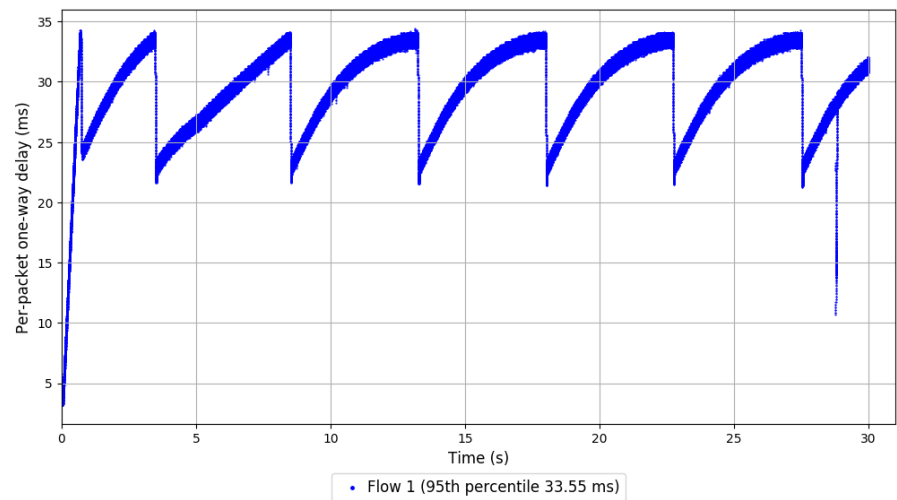
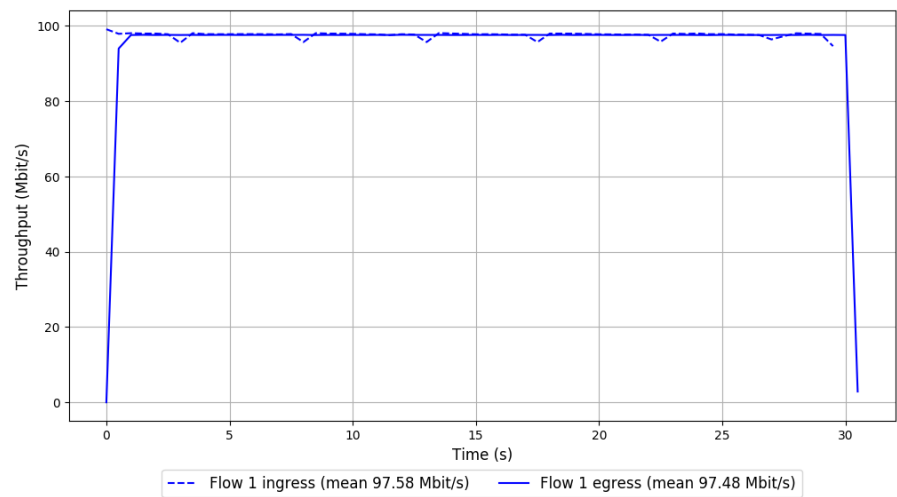
-- Flow 1:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 33.551 ms

Loss rate: 0.01%

Run 5: Report of TCP Cubic — Data Link

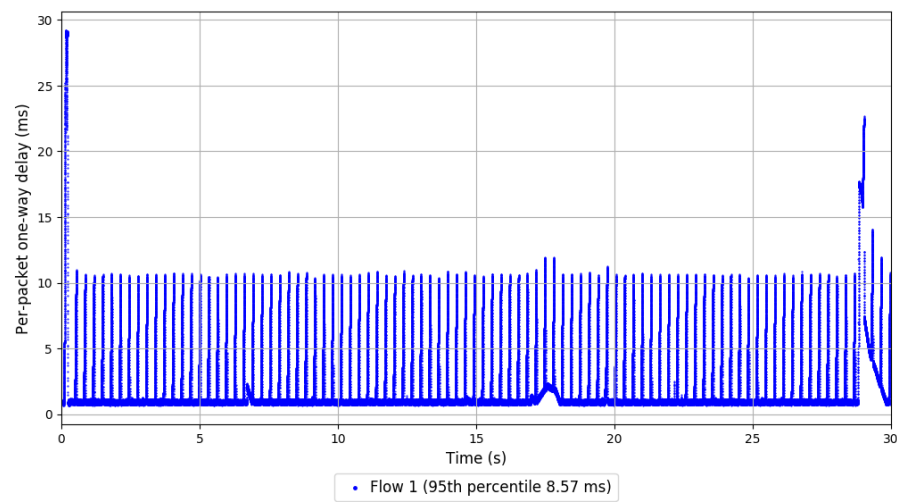
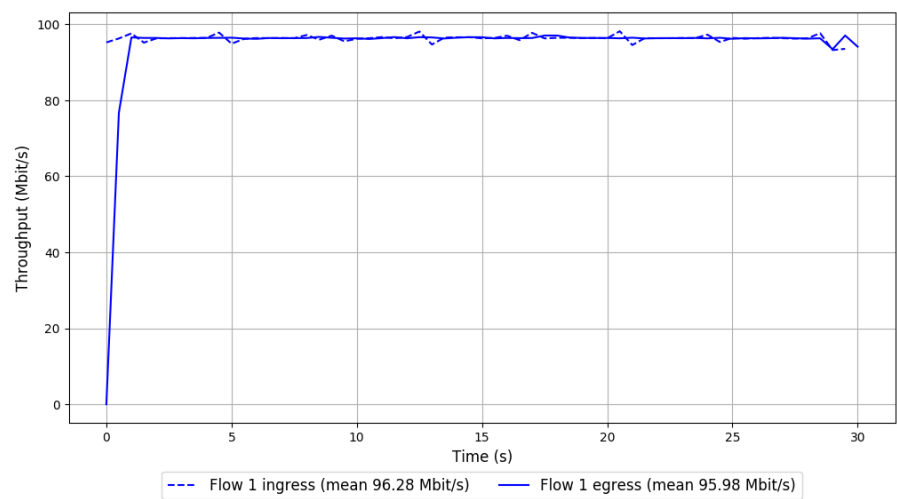


Run 1: Statistics of FillP

Start at: 2019-03-08 21:41:03  
End at: 2019-03-08 21:41:33  
Local clock offset: -5.359 ms  
Remote clock offset: -0.223 ms

# Below is generated by plot.py at 2019-03-08 23:20:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.98 Mbit/s  
95th percentile per-packet one-way delay: 8.573 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 95.98 Mbit/s  
95th percentile per-packet one-way delay: 8.573 ms  
Loss rate: 0.31%

Run 1: Report of FillP — Data Link



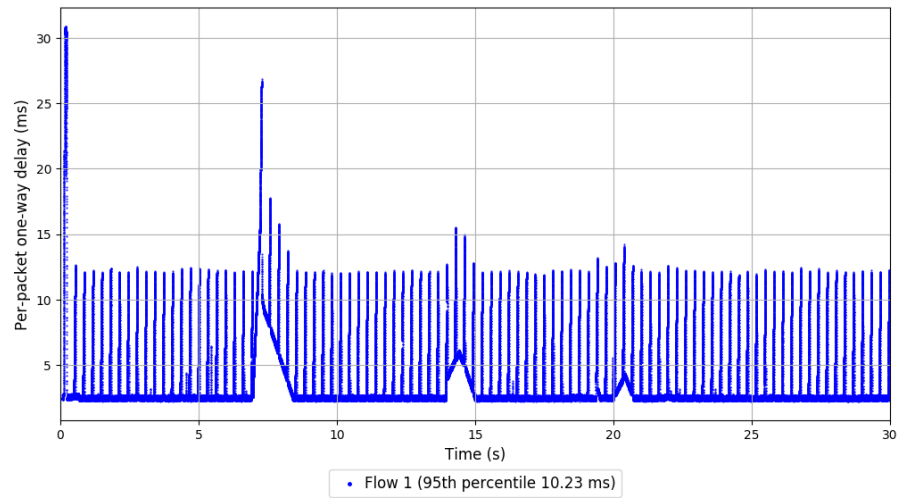
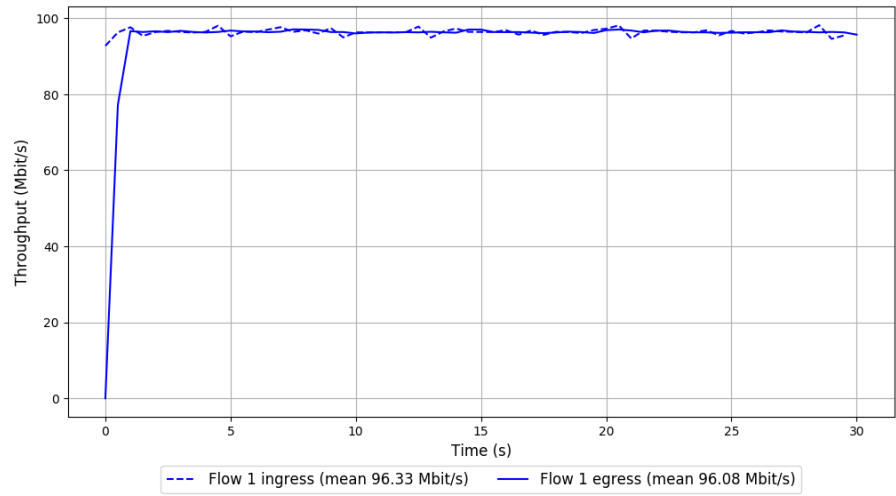


Run 2: Statistics of FillP

Start at: 2019-03-08 22:04:29  
End at: 2019-03-08 22:05:00  
Local clock offset: -6.569 ms  
Remote clock offset: -0.159 ms

# Below is generated by plot.py at 2019-03-08 23:20:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.08 Mbit/s  
95th percentile per-packet one-way delay: 10.232 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 96.08 Mbit/s  
95th percentile per-packet one-way delay: 10.232 ms  
Loss rate: 0.26%

## Run 2: Report of FillP — Data Link

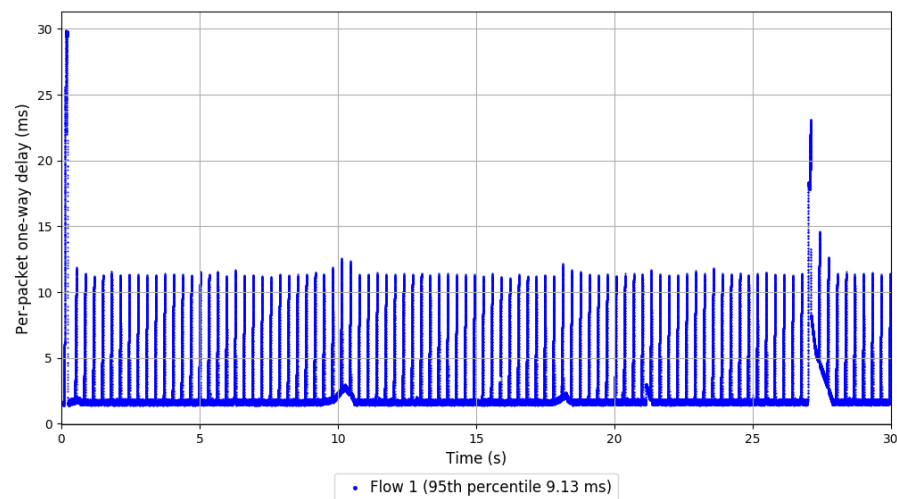
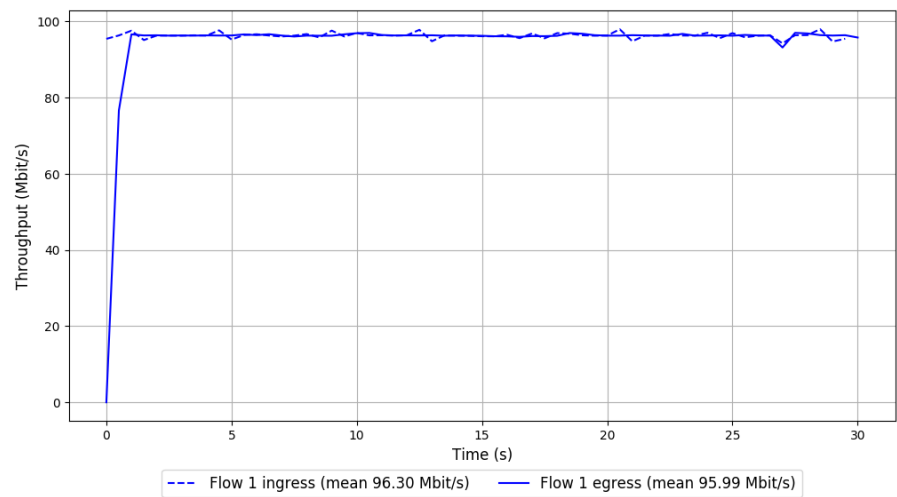


Run 3: Statistics of FillP

Start at: 2019-03-08 22:27:56  
End at: 2019-03-08 22:28:27  
Local clock offset: -6.041 ms  
Remote clock offset: -0.136 ms

# Below is generated by plot.py at 2019-03-08 23:20:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.99 Mbit/s  
95th percentile per-packet one-way delay: 9.134 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 95.99 Mbit/s  
95th percentile per-packet one-way delay: 9.134 ms  
Loss rate: 0.31%

Run 3: Report of FillP — Data Link

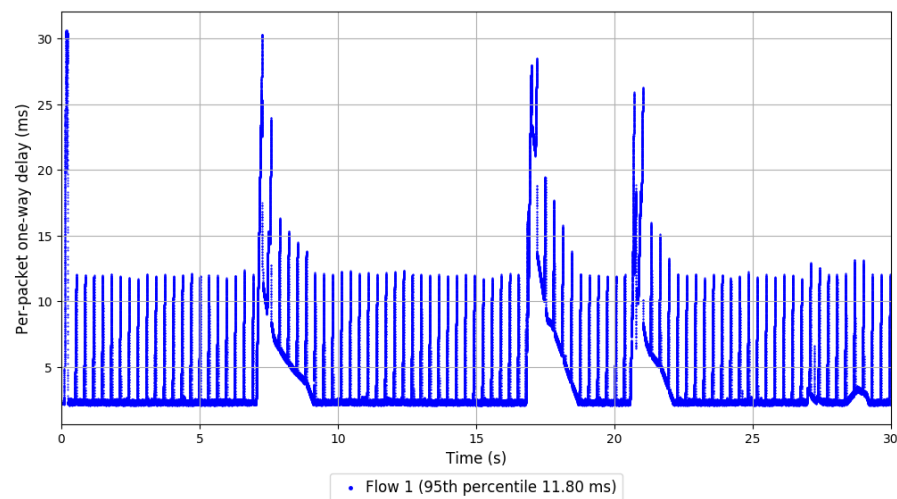
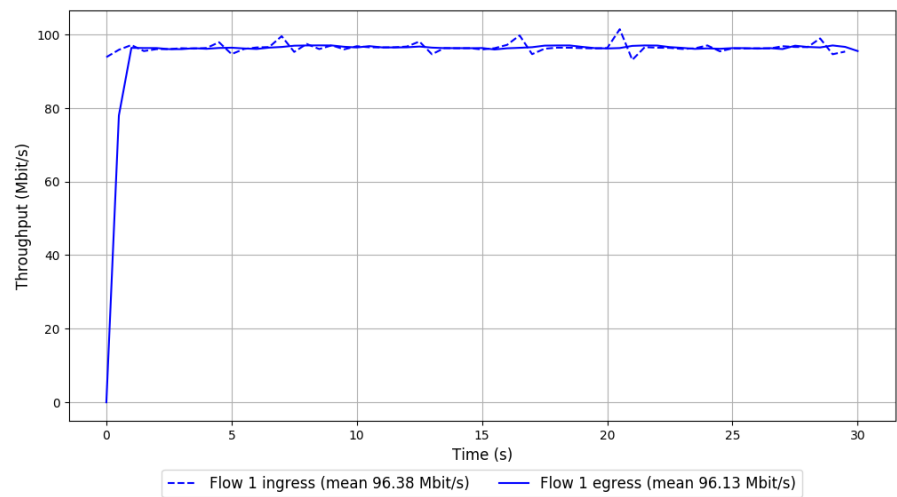


Run 4: Statistics of FillP

Start at: 2019-03-08 22:51:23  
End at: 2019-03-08 22:51:53  
Local clock offset: -4.947 ms  
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2019-03-08 23:20:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.13 Mbit/s  
95th percentile per-packet one-way delay: 11.797 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 96.13 Mbit/s  
95th percentile per-packet one-way delay: 11.797 ms  
Loss rate: 0.27%

Run 4: Report of FillP — Data Link

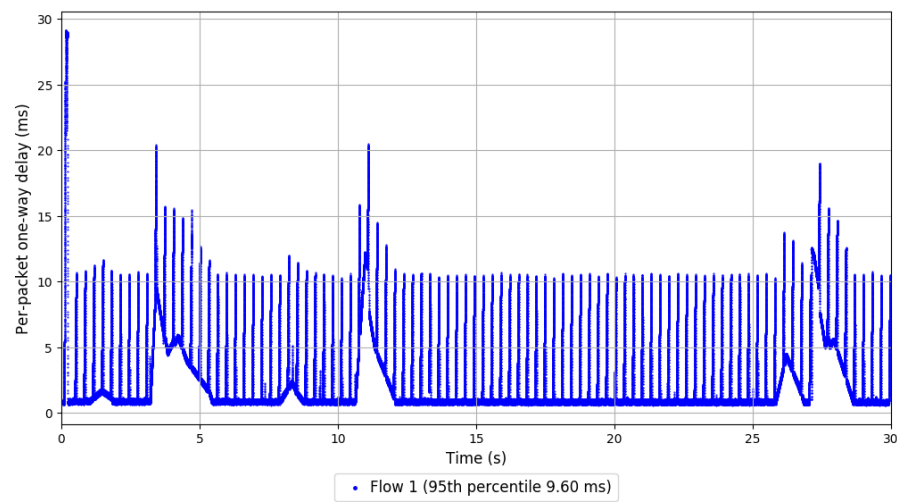
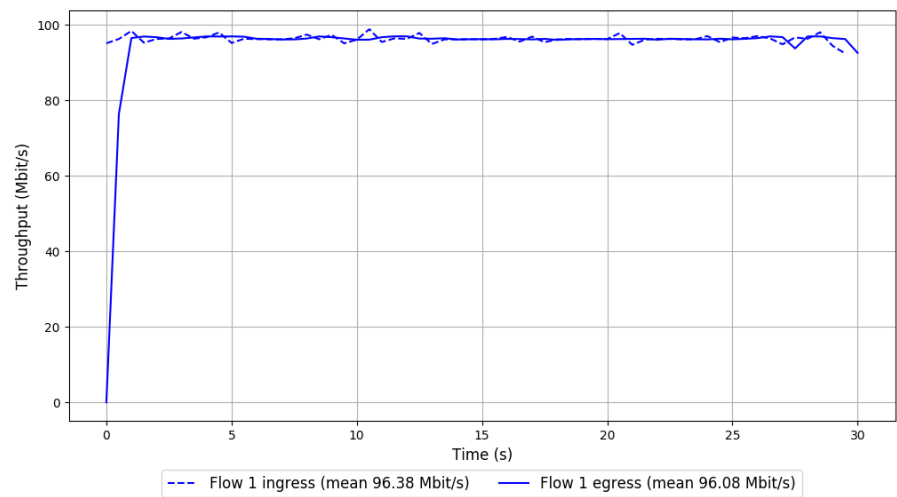


Run 5: Statistics of FillP

Start at: 2019-03-08 23:14:51  
End at: 2019-03-08 23:15:21  
Local clock offset: -5.067 ms  
Remote clock offset: -0.005 ms

# Below is generated by plot.py at 2019-03-08 23:20:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.08 Mbit/s  
95th percentile per-packet one-way delay: 9.603 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 96.08 Mbit/s  
95th percentile per-packet one-way delay: 9.603 ms  
Loss rate: 0.32%

Run 5: Report of FillP — Data Link





Run 1: Statistics of FillP-Sheep

Start at: 2019-03-08 21:25:22

End at: 2019-03-08 21:25:52

Local clock offset: -5.458 ms

Remote clock offset: -0.321 ms

# Below is generated by plot.py at 2019-03-08 23:20:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.64 Mbit/s

95th percentile per-packet one-way delay: 6.353 ms

Loss rate: 0.09%

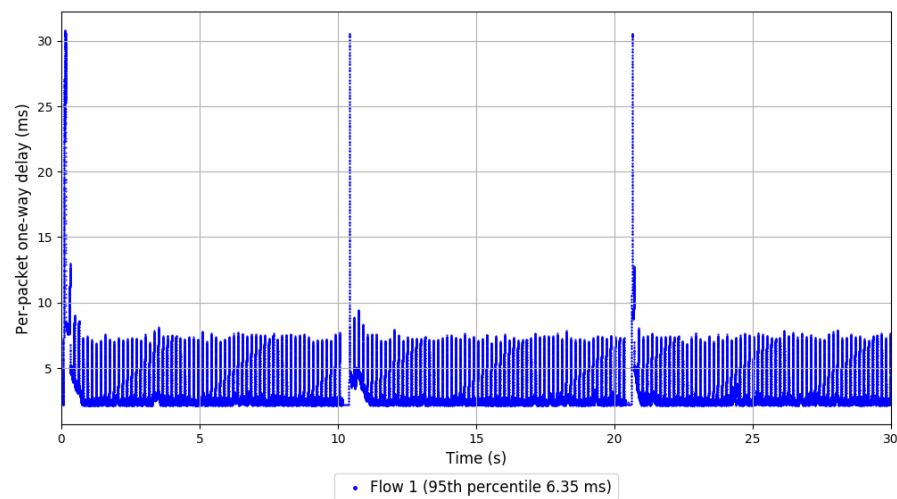
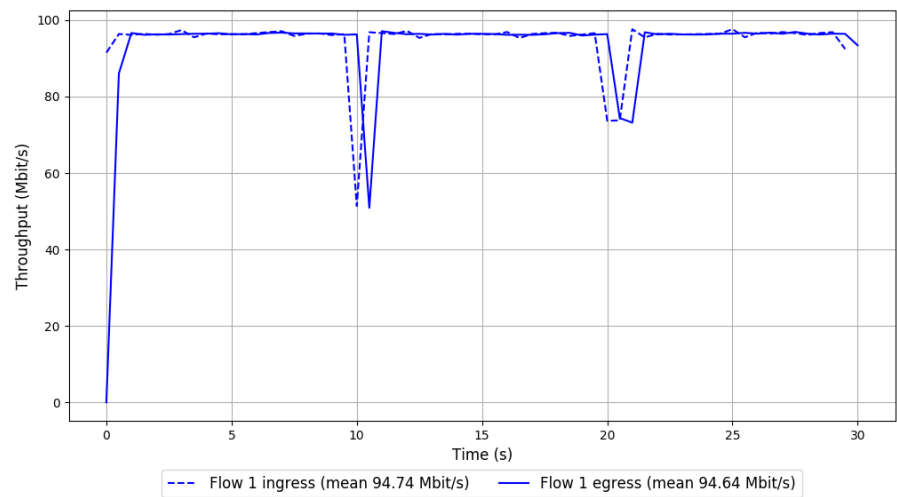
-- Flow 1:

Average throughput: 94.64 Mbit/s

95th percentile per-packet one-way delay: 6.353 ms

Loss rate: 0.09%

Run 1: Report of FillP-Sheep — Data Link

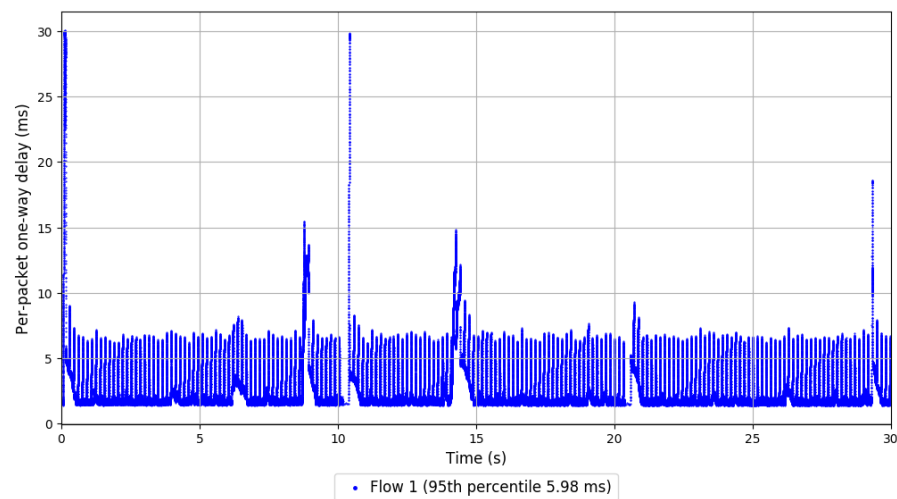
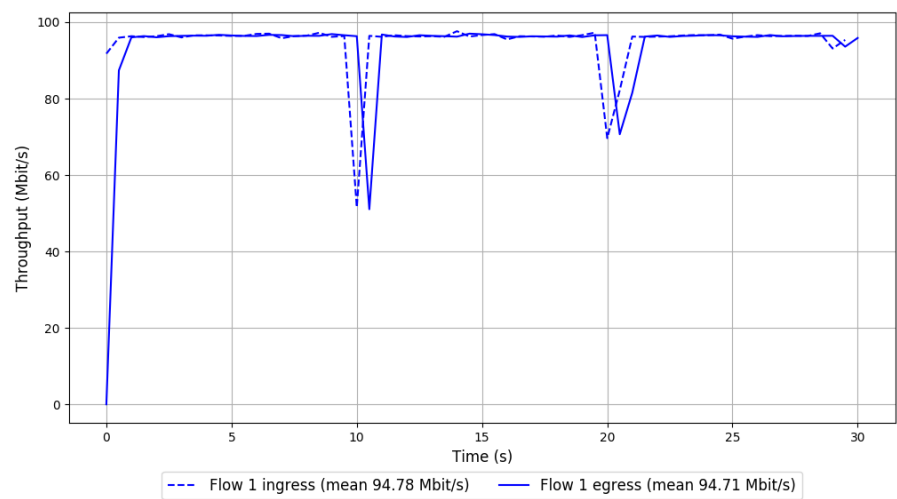


Run 2: Statistics of FillP-Sheep

Start at: 2019-03-08 21:48:48  
End at: 2019-03-08 21:49:18  
Local clock offset: -6.62 ms  
Remote clock offset: -0.246 ms

# Below is generated by plot.py at 2019-03-08 23:21:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.71 Mbit/s  
95th percentile per-packet one-way delay: 5.976 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 94.71 Mbit/s  
95th percentile per-packet one-way delay: 5.976 ms  
Loss rate: 0.07%

Run 2: Report of FillP-Sheep — Data Link

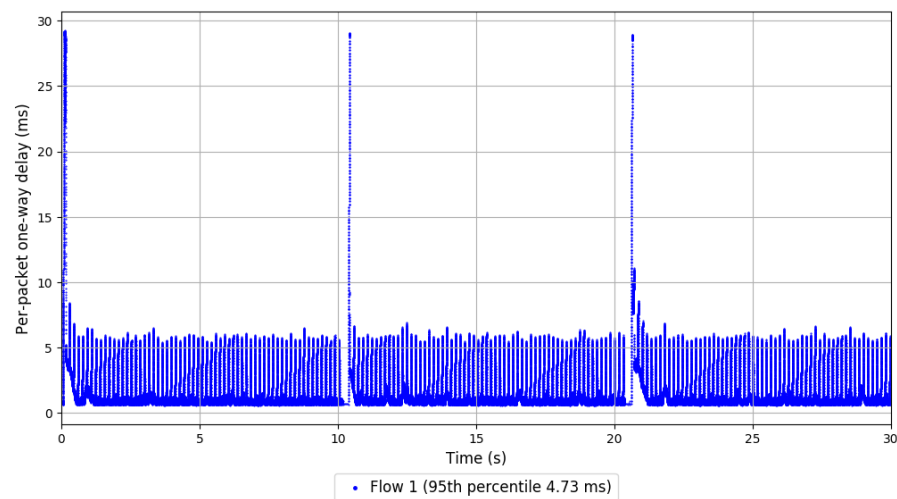
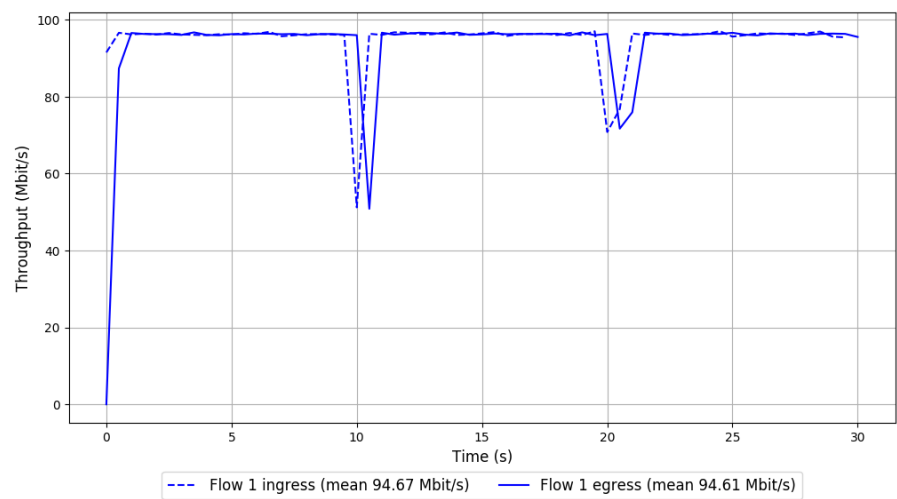


Run 3: Statistics of FillP-Sheep

Start at: 2019-03-08 22:12:15  
End at: 2019-03-08 22:12:45  
Local clock offset: -6.671 ms  
Remote clock offset: -0.198 ms

# Below is generated by plot.py at 2019-03-08 23:21:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.61 Mbit/s  
95th percentile per-packet one-way delay: 4.733 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 94.61 Mbit/s  
95th percentile per-packet one-way delay: 4.733 ms  
Loss rate: 0.07%

Run 3: Report of FillP-Sheep — Data Link

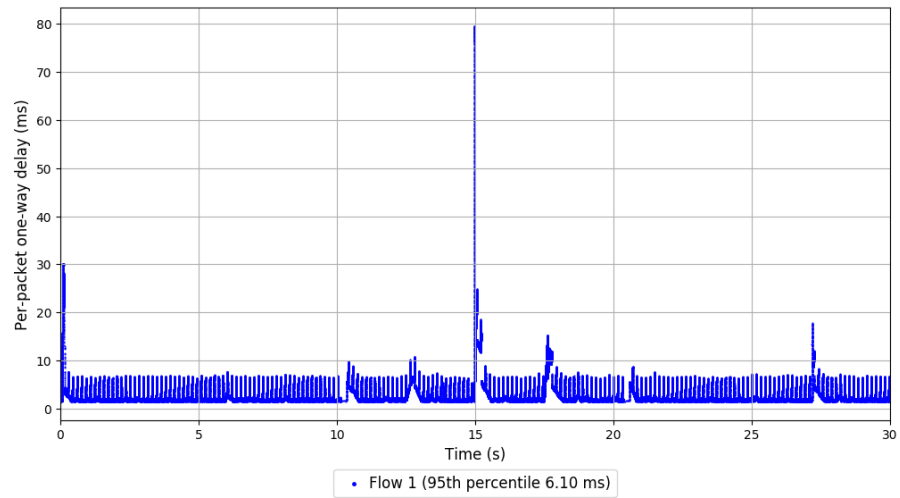
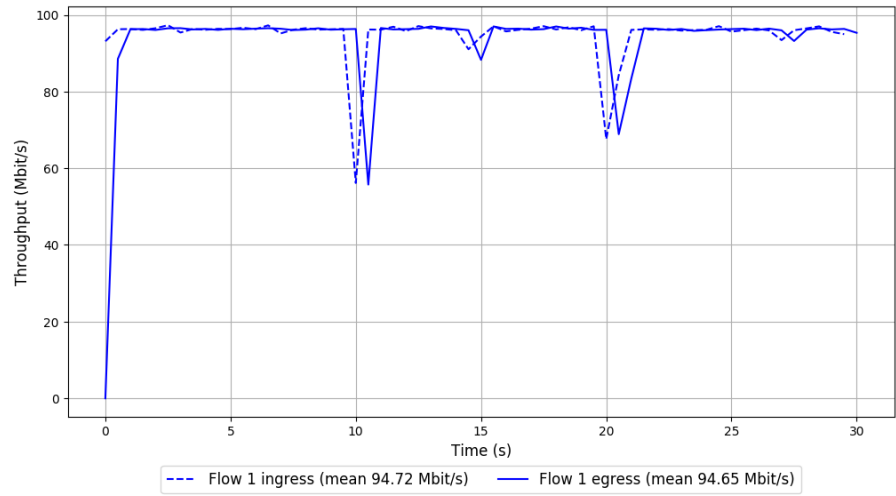


Run 4: Statistics of FillP-Sheep

Start at: 2019-03-08 22:35:42  
End at: 2019-03-08 22:36:13  
Local clock offset: -5.83 ms  
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2019-03-08 23:21:52  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.65 Mbit/s  
95th percentile per-packet one-way delay: 6.103 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 94.65 Mbit/s  
95th percentile per-packet one-way delay: 6.103 ms  
Loss rate: 0.08%

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





Run 5: Statistics of FillP-Sheep

Start at: 2019-03-08 22:59:08

End at: 2019-03-08 22:59:38

Local clock offset: -5.741 ms

Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2019-03-08 23:21:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.73 Mbit/s

95th percentile per-packet one-way delay: 7.658 ms

Loss rate: 0.09%

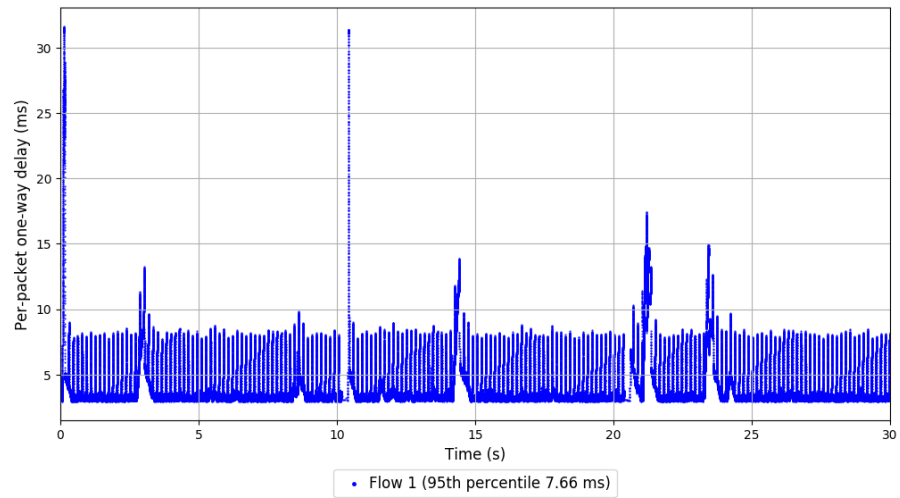
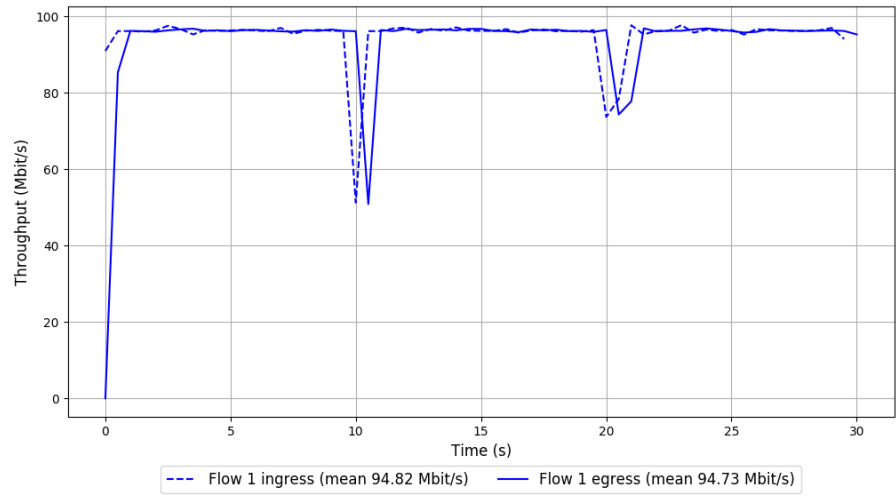
-- Flow 1:

Average throughput: 94.73 Mbit/s

95th percentile per-packet one-way delay: 7.658 ms

Loss rate: 0.09%

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



Run 1: Statistics of Indigo

Start at: 2019-03-08 21:27:36

End at: 2019-03-08 21:28:06

Local clock offset: -5.497 ms

Remote clock offset: -0.372 ms

# Below is generated by plot.py at 2019-03-08 23:21:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.34 Mbit/s

95th percentile per-packet one-way delay: 3.889 ms

Loss rate: 0.00%

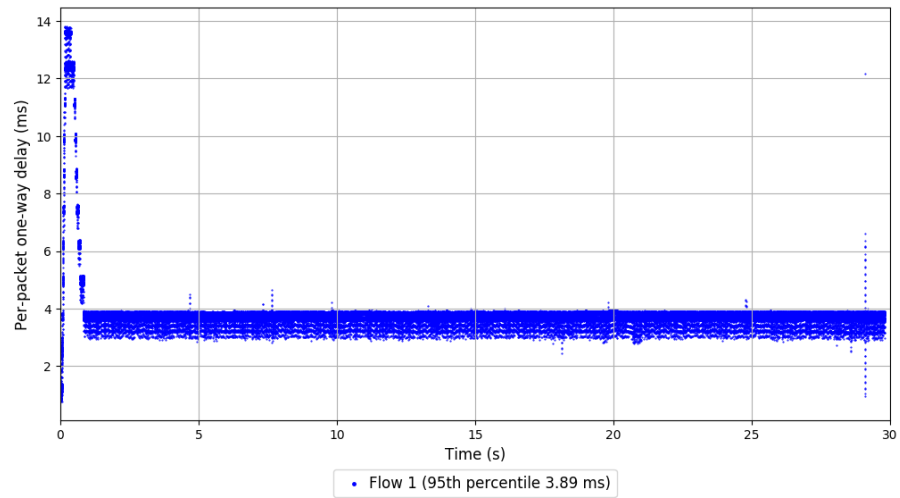
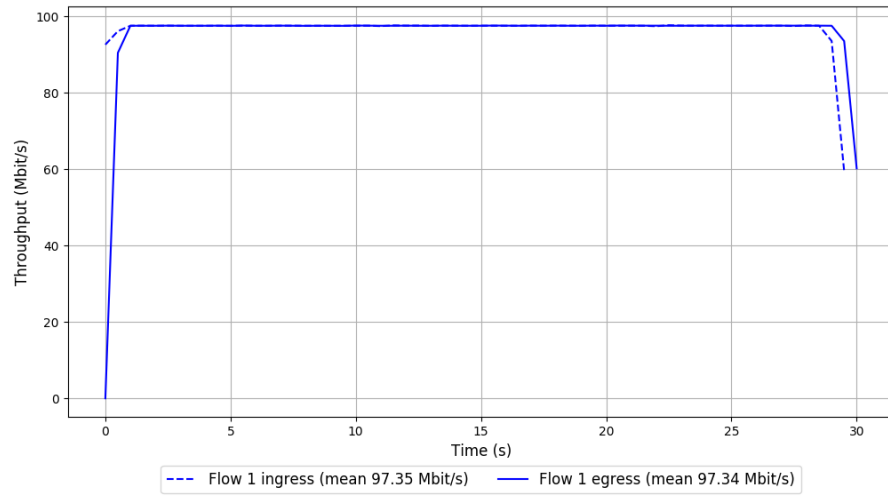
-- Flow 1:

Average throughput: 97.34 Mbit/s

95th percentile per-packet one-way delay: 3.889 ms

Loss rate: 0.00%

## Run 1: Report of Indigo — Data Link

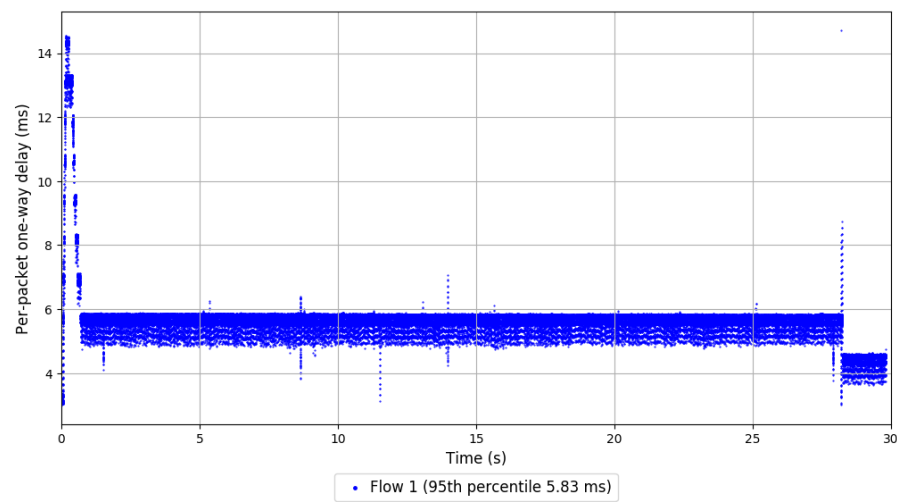
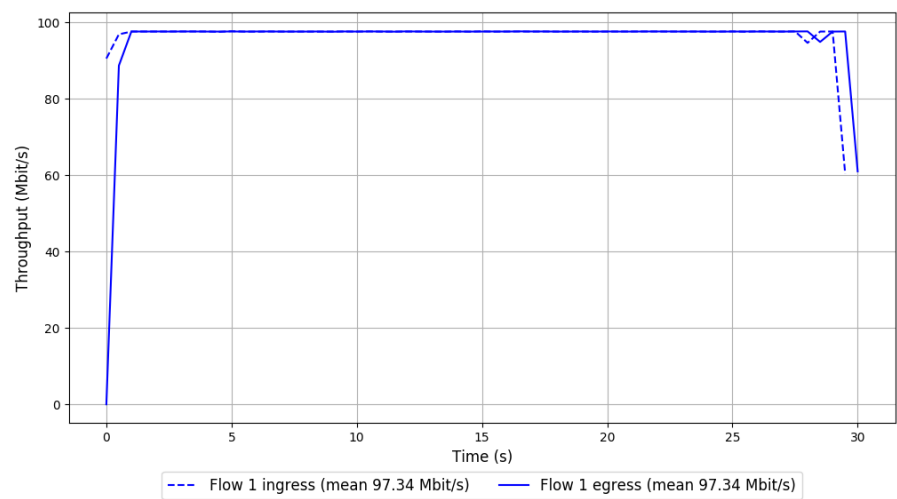


Run 2: Statistics of Indigo

Start at: 2019-03-08 21:51:02  
End at: 2019-03-08 21:51:33  
Local clock offset: -6.741 ms  
Remote clock offset: -0.244 ms

# Below is generated by plot.py at 2019-03-08 23:22:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.34 Mbit/s  
95th percentile per-packet one-way delay: 5.826 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 97.34 Mbit/s  
95th percentile per-packet one-way delay: 5.826 ms  
Loss rate: 0.00%

Run 2: Report of Indigo — Data Link

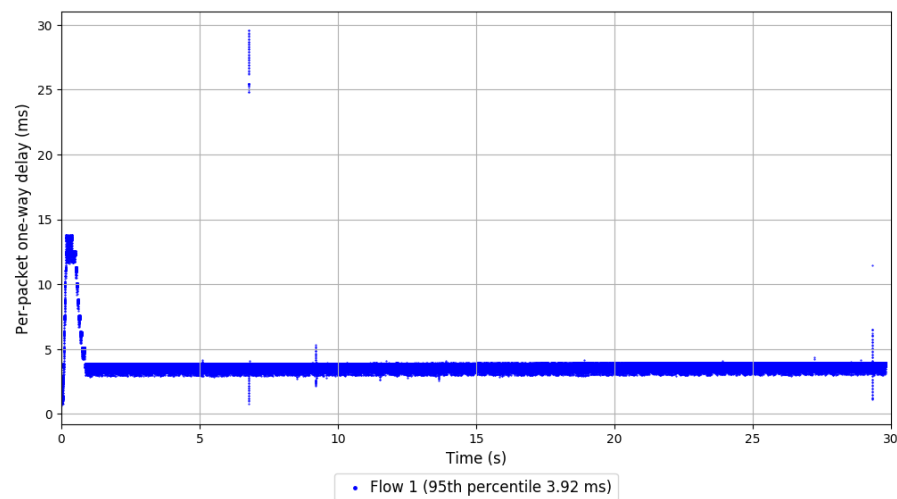
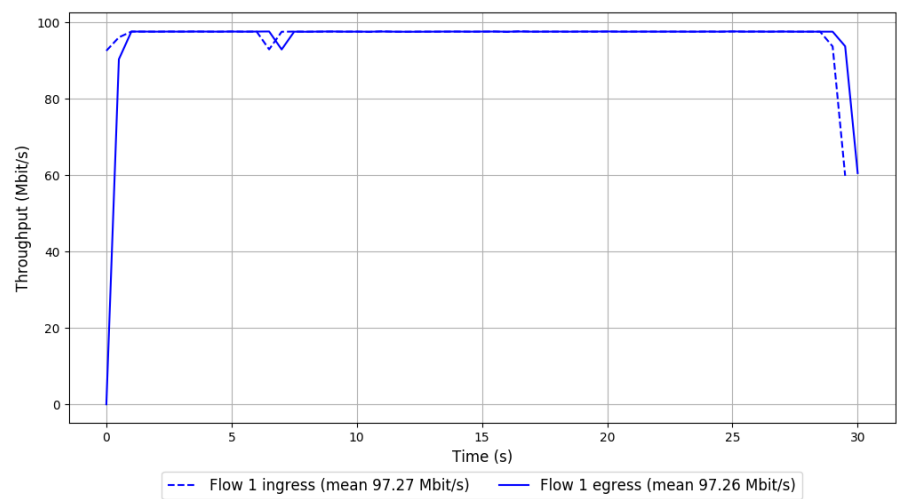


Run 3: Statistics of Indigo

Start at: 2019-03-08 22:14:29  
End at: 2019-03-08 22:14:59  
Local clock offset: -6.688 ms  
Remote clock offset: -0.253 ms

# Below is generated by plot.py at 2019-03-08 23:22:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.26 Mbit/s  
95th percentile per-packet one-way delay: 3.925 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 97.26 Mbit/s  
95th percentile per-packet one-way delay: 3.925 ms  
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



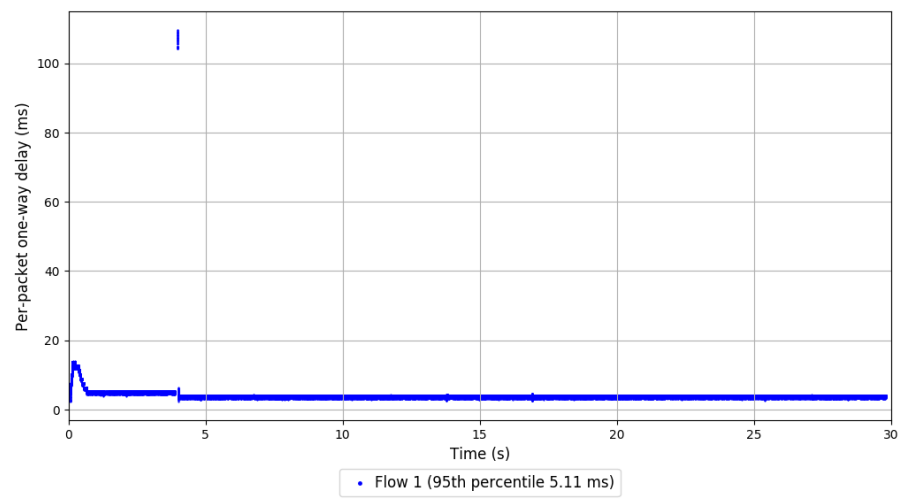
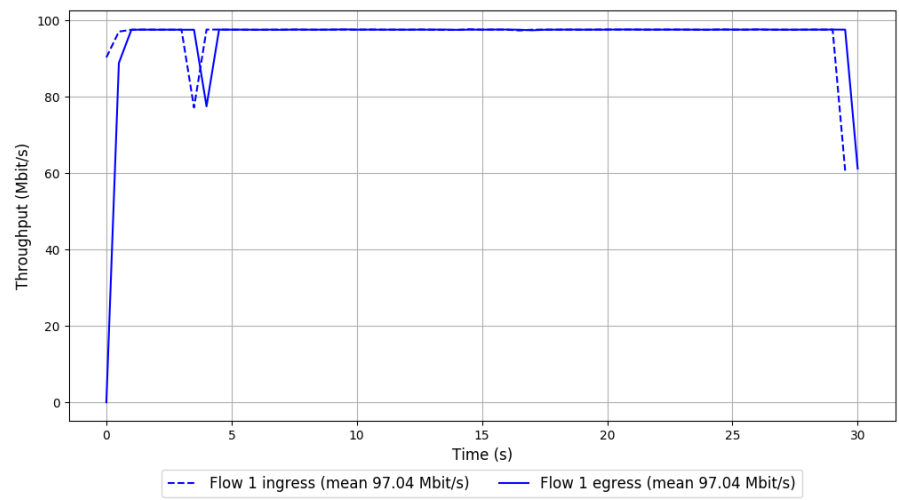


Run 4: Statistics of Indigo

Start at: 2019-03-08 22:37:56  
End at: 2019-03-08 22:38:26  
Local clock offset: -4.975 ms  
Remote clock offset: -0.005 ms

# Below is generated by plot.py at 2019-03-08 23:22:09  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.04 Mbit/s  
95th percentile per-packet one-way delay: 5.111 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 97.04 Mbit/s  
95th percentile per-packet one-way delay: 5.111 ms  
Loss rate: 0.00%

Run 4: Report of Indigo — Data Link

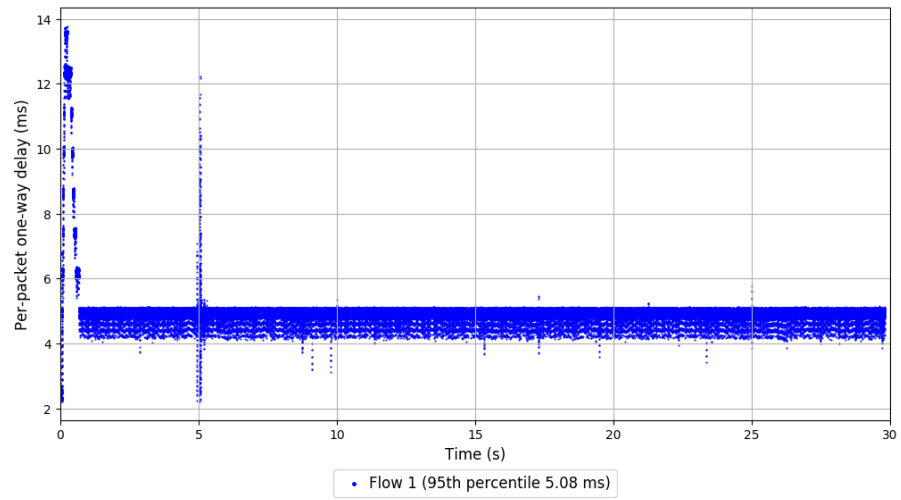
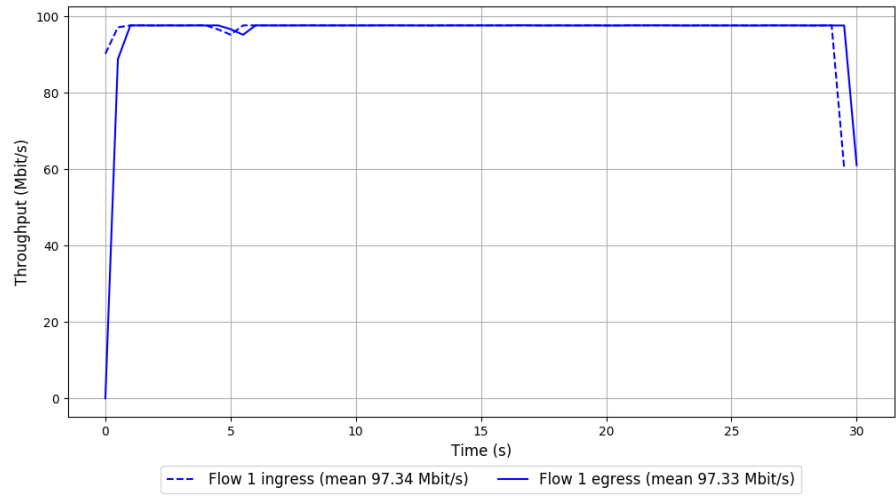


Run 5: Statistics of Indigo

Start at: 2019-03-08 23:01:22  
End at: 2019-03-08 23:01:52  
Local clock offset: -4.978 ms  
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2019-03-08 23:22:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.33 Mbit/s  
95th percentile per-packet one-way delay: 5.080 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 97.33 Mbit/s  
95th percentile per-packet one-way delay: 5.080 ms  
Loss rate: 0.00%

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



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-03-08 21:24:14

End at: 2019-03-08 21:24:44

Local clock offset: -5.482 ms

Remote clock offset: -0.348 ms

# Below is generated by plot.py at 2019-03-08 23:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.48 Mbit/s

95th percentile per-packet one-way delay: 4.453 ms

Loss rate: 0.01%

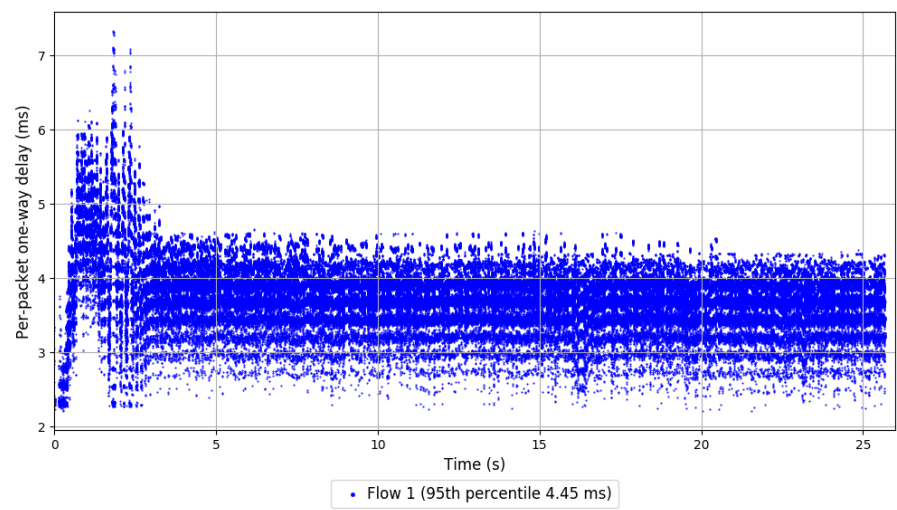
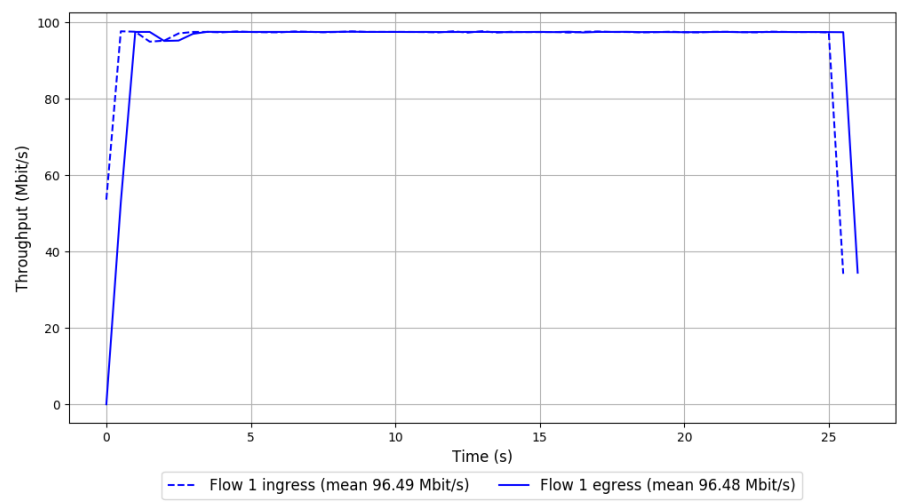
-- Flow 1:

Average throughput: 96.48 Mbit/s

95th percentile per-packet one-way delay: 4.453 ms

Loss rate: 0.01%

Run 1: Report of Indigo-MusesC3 — Data Link

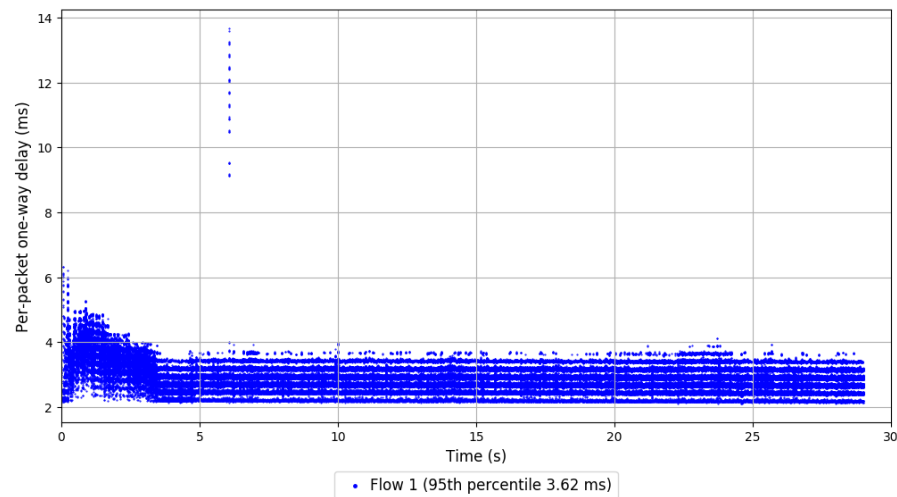
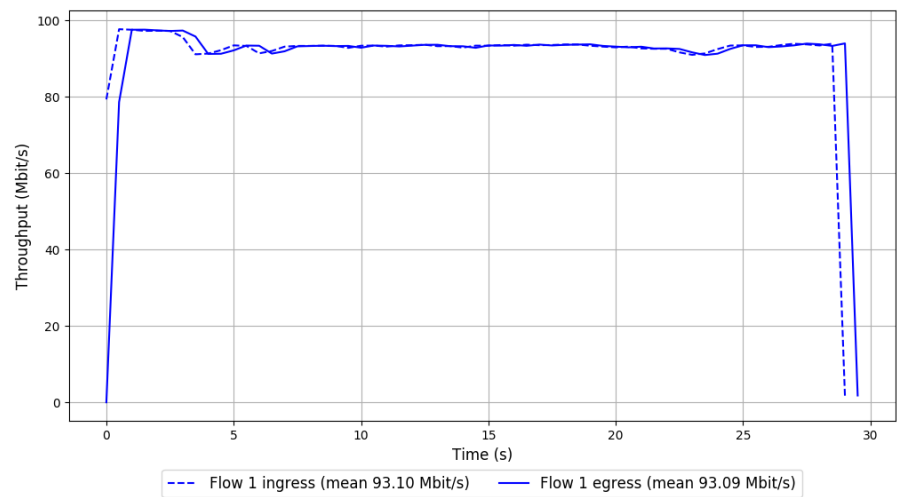


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-03-08 21:47:41  
End at: 2019-03-08 21:48:11  
Local clock offset: -5.703 ms  
Remote clock offset: -0.309 ms

# Below is generated by plot.py at 2019-03-08 23:22:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 93.09 Mbit/s  
95th percentile per-packet one-way delay: 3.623 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 93.09 Mbit/s  
95th percentile per-packet one-way delay: 3.623 ms  
Loss rate: 0.01%

Run 2: Report of Indigo-MusesC3 — Data Link





Run 3: Statistics of Indigo-MusesC3

Start at: 2019-03-08 22:11:07

End at: 2019-03-08 22:11:37

Local clock offset: -7.399 ms

Remote clock offset: -0.14 ms

# Below is generated by plot.py at 2019-03-08 23:23:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.97 Mbit/s

95th percentile per-packet one-way delay: 4.448 ms

Loss rate: 0.01%

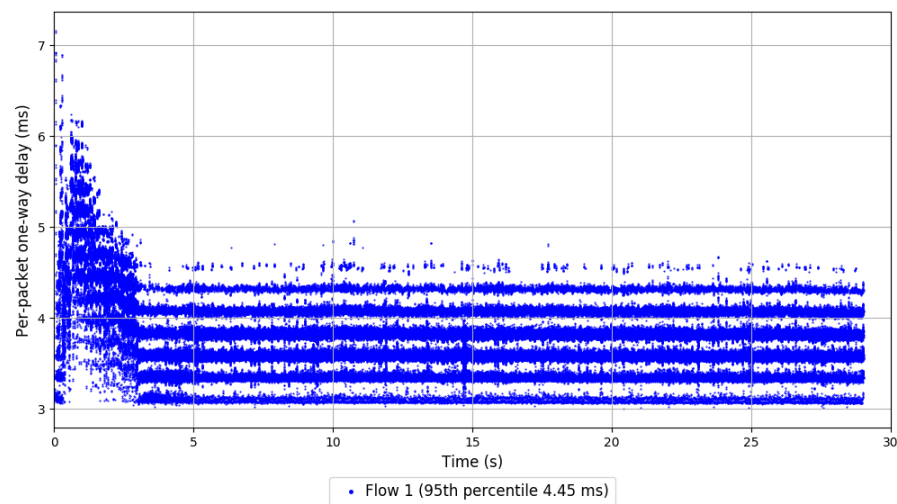
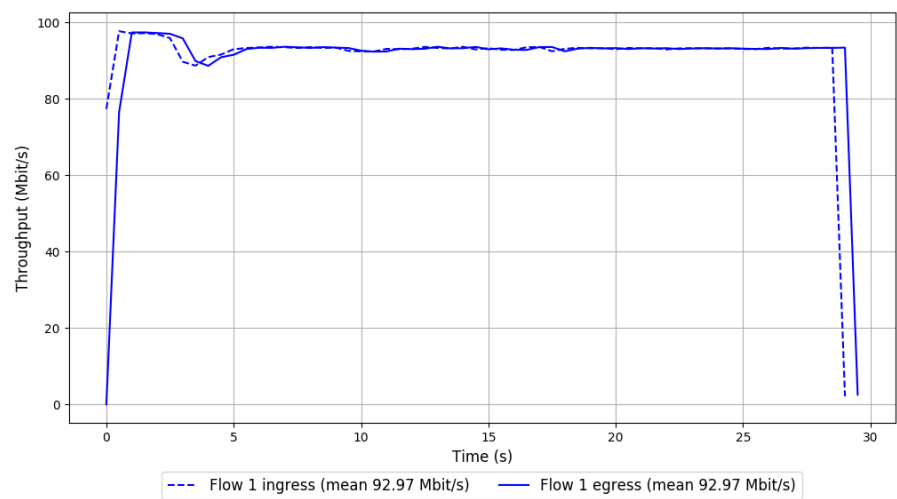
-- Flow 1:

Average throughput: 92.97 Mbit/s

95th percentile per-packet one-way delay: 4.448 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesC3 — Data Link

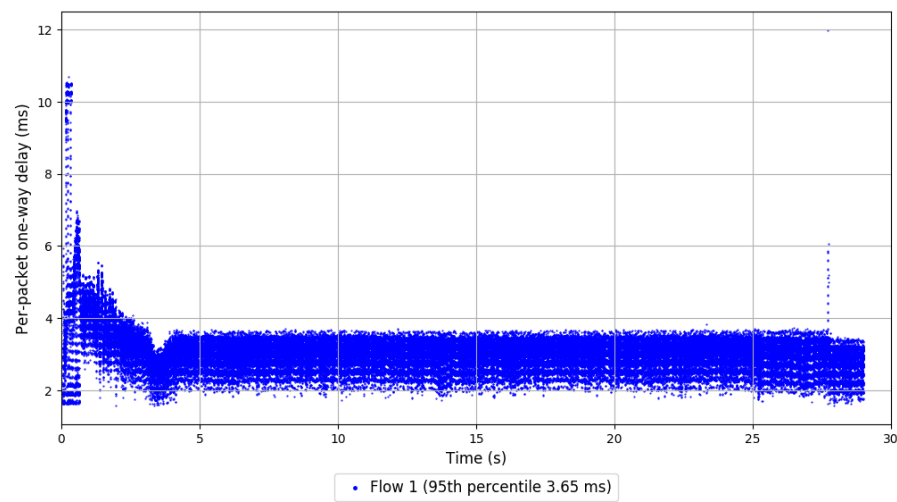
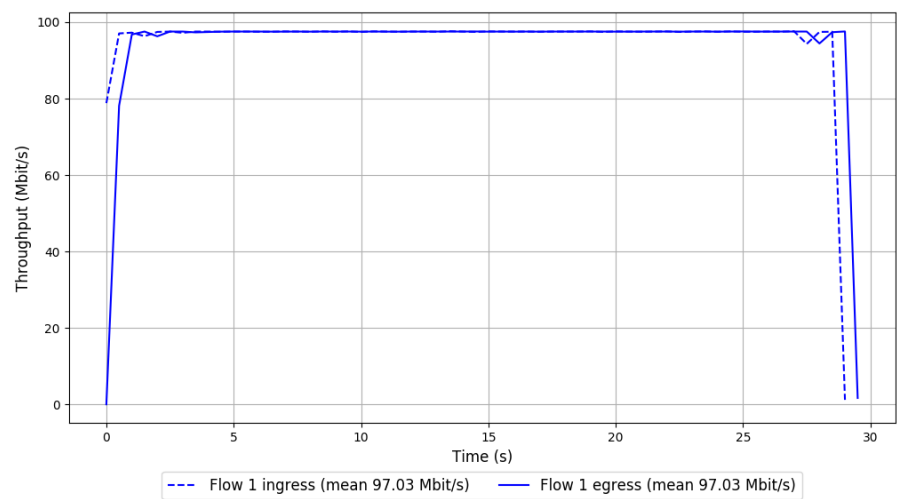


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-03-08 22:34:34  
End at: 2019-03-08 22:35:04  
Local clock offset: -5.813 ms  
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2019-03-08 23:23:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.03 Mbit/s  
95th percentile per-packet one-way delay: 3.648 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 97.03 Mbit/s  
95th percentile per-packet one-way delay: 3.648 ms  
Loss rate: 0.00%

Run 4: Report of Indigo-MusesC3 — Data Link

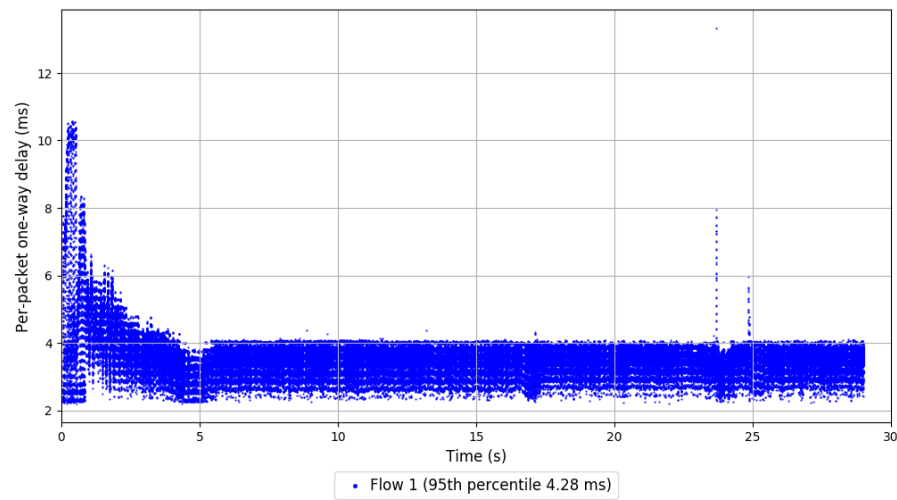
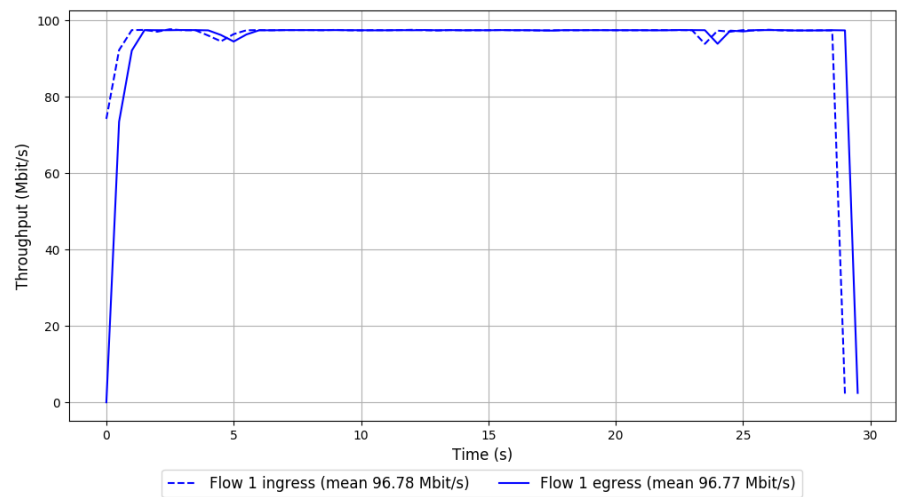


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-03-08 22:58:00  
End at: 2019-03-08 22:58:30  
Local clock offset: -4.983 ms  
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2019-03-08 23:23:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.77 Mbit/s  
95th percentile per-packet one-way delay: 4.279 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 96.77 Mbit/s  
95th percentile per-packet one-way delay: 4.279 ms  
Loss rate: 0.00%

Run 5: Report of Indigo-MusesC3 — Data Link

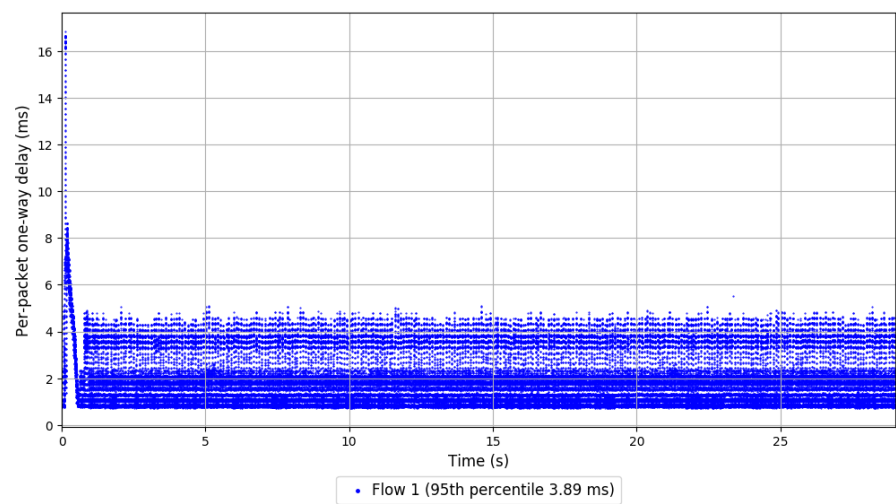
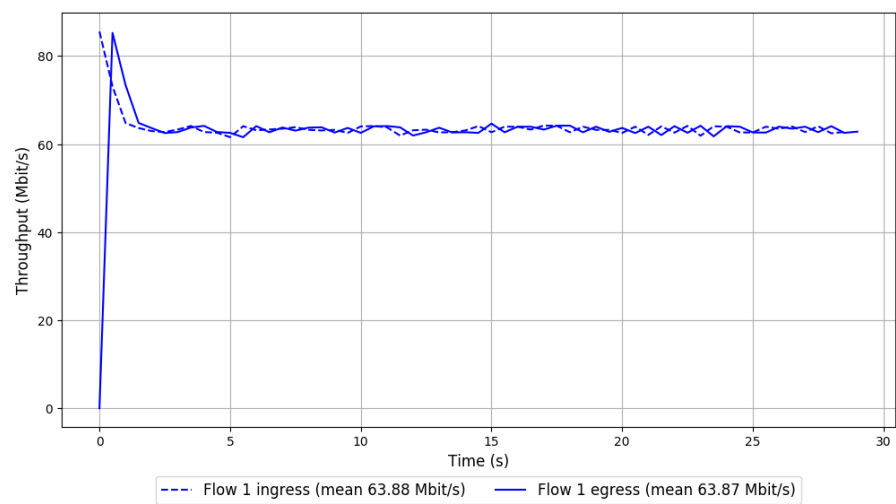


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-03-08 21:26:29  
End at: 2019-03-08 21:26:59  
Local clock offset: -5.441 ms  
Remote clock offset: -0.331 ms

# Below is generated by plot.py at 2019-03-08 23:23:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 63.87 Mbit/s  
95th percentile per-packet one-way delay: 3.888 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 63.87 Mbit/s  
95th percentile per-packet one-way delay: 3.888 ms  
Loss rate: 0.00%

Run 1: Report of Indigo-MusesC5 — Data Link



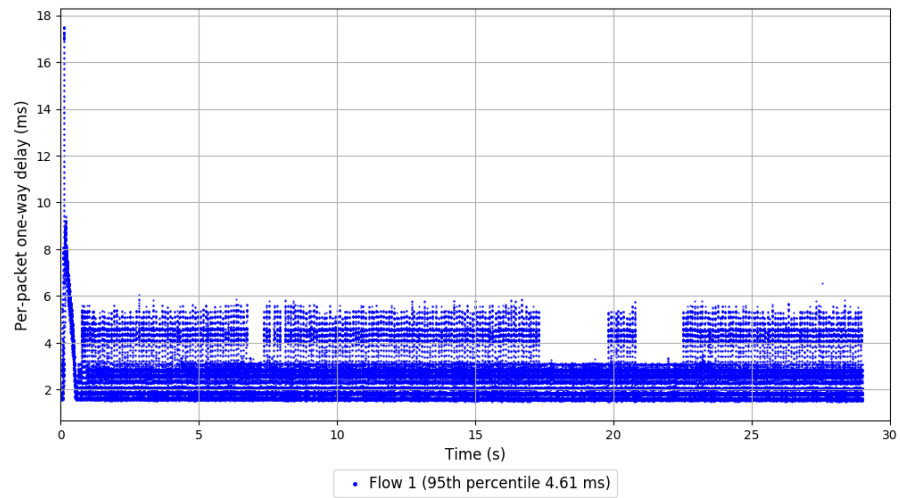
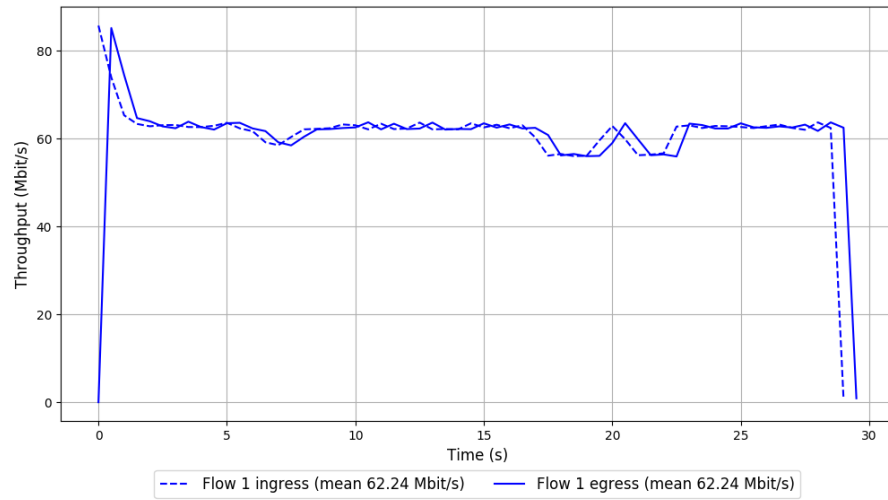


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-03-08 21:49:56  
End at: 2019-03-08 21:50:26  
Local clock offset: -6.633 ms  
Remote clock offset: -0.184 ms

# Below is generated by plot.py at 2019-03-08 23:23:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 62.24 Mbit/s  
95th percentile per-packet one-way delay: 4.612 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 62.24 Mbit/s  
95th percentile per-packet one-way delay: 4.612 ms  
Loss rate: 0.00%

## Run 2: Report of Indigo-MusesC5 — Data Link

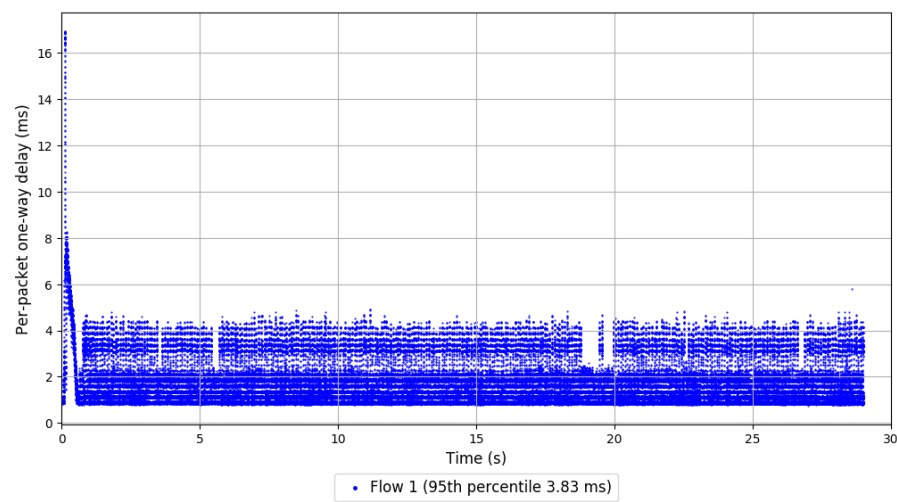
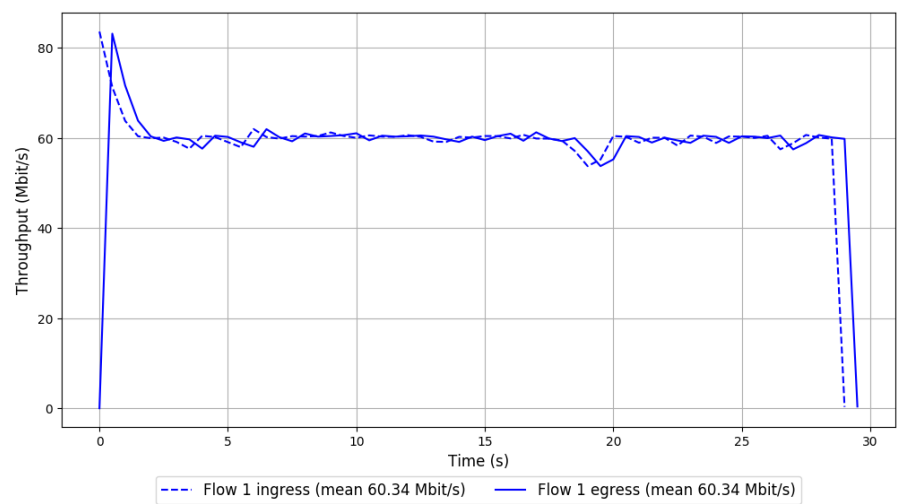


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-03-08 22:13:23  
End at: 2019-03-08 22:13:53  
Local clock offset: -6.698 ms  
Remote clock offset: -0.124 ms

# Below is generated by plot.py at 2019-03-08 23:23:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 60.34 Mbit/s  
95th percentile per-packet one-way delay: 3.831 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 60.34 Mbit/s  
95th percentile per-packet one-way delay: 3.831 ms  
Loss rate: 0.00%

Run 3: Report of Indigo-MusesC5 — Data Link

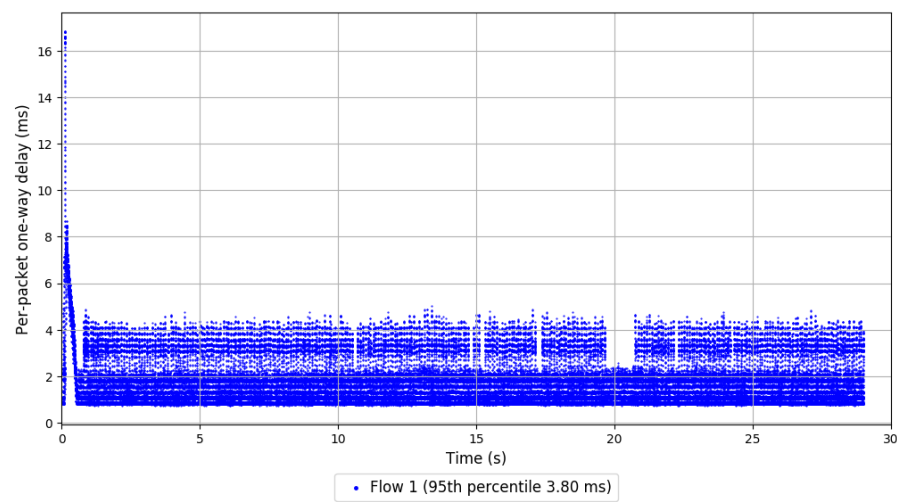
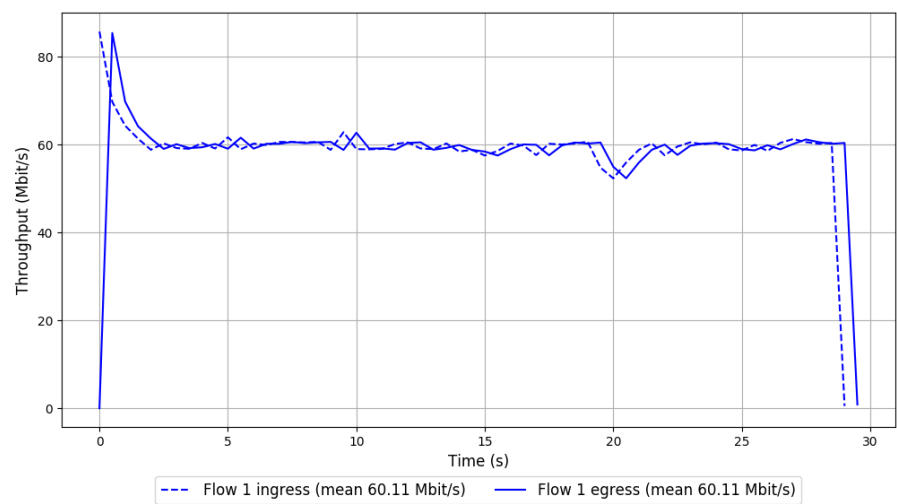


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-03-08 22:36:50  
End at: 2019-03-08 22:37:20  
Local clock offset: -4.996 ms  
Remote clock offset: -0.085 ms

# Below is generated by plot.py at 2019-03-08 23:23:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 60.11 Mbit/s  
95th percentile per-packet one-way delay: 3.798 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 60.11 Mbit/s  
95th percentile per-packet one-way delay: 3.798 ms  
Loss rate: 0.00%

Run 4: Report of Indigo-MusesC5 — Data Link

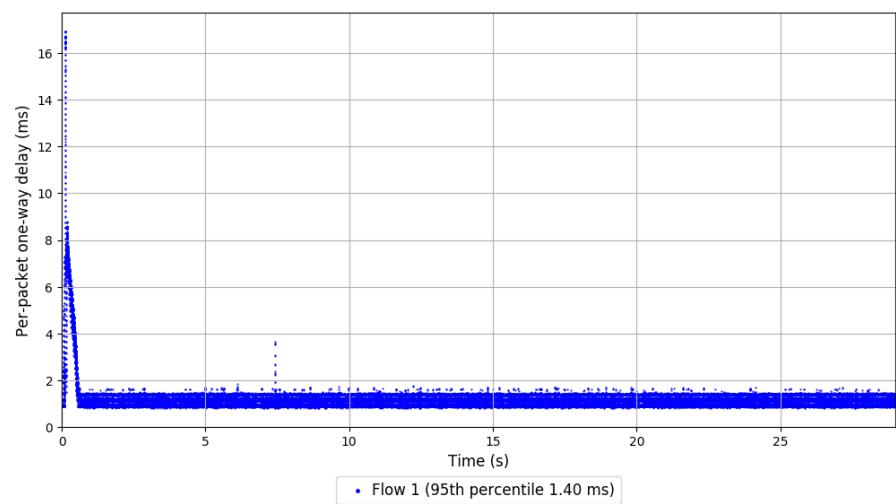
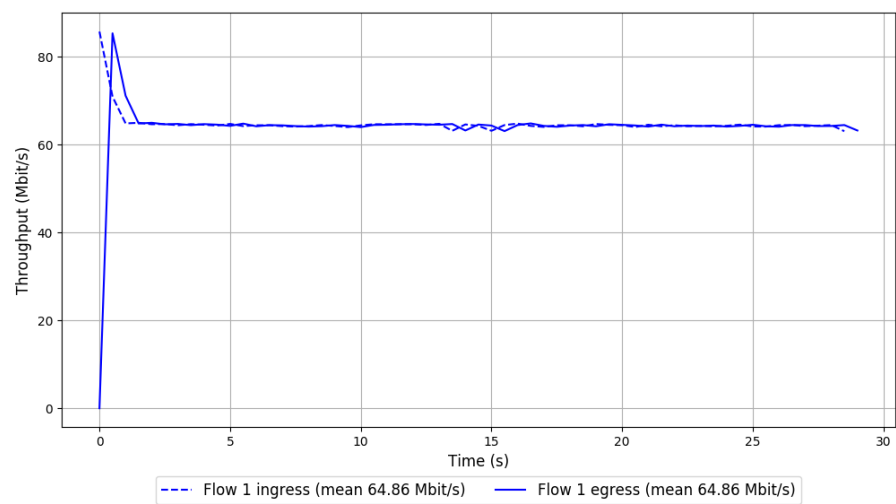


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-03-08 23:00:15  
End at: 2019-03-08 23:00:45  
Local clock offset: -5.036 ms  
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2019-03-08 23:23:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 64.86 Mbit/s  
95th percentile per-packet one-way delay: 1.400 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 64.86 Mbit/s  
95th percentile per-packet one-way delay: 1.400 ms  
Loss rate: 0.00%

Run 5: Report of Indigo-MusesC5 — Data Link





Run 1: Statistics of Indigo-MusesD

Start at: 2019-03-08 21:36:34

End at: 2019-03-08 21:37:04

Local clock offset: -5.376 ms

Remote clock offset: -0.242 ms

# Below is generated by plot.py at 2019-03-08 23:23:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.27 Mbit/s

95th percentile per-packet one-way delay: 4.447 ms

Loss rate: 0.00%

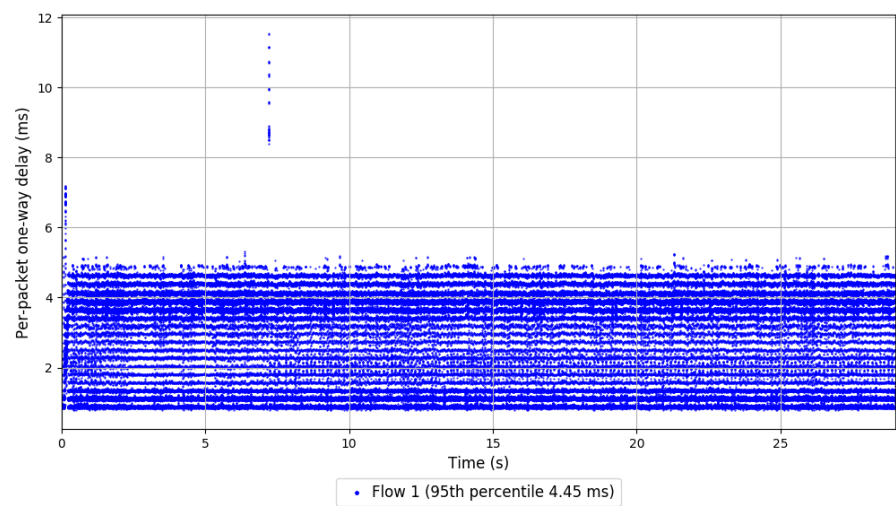
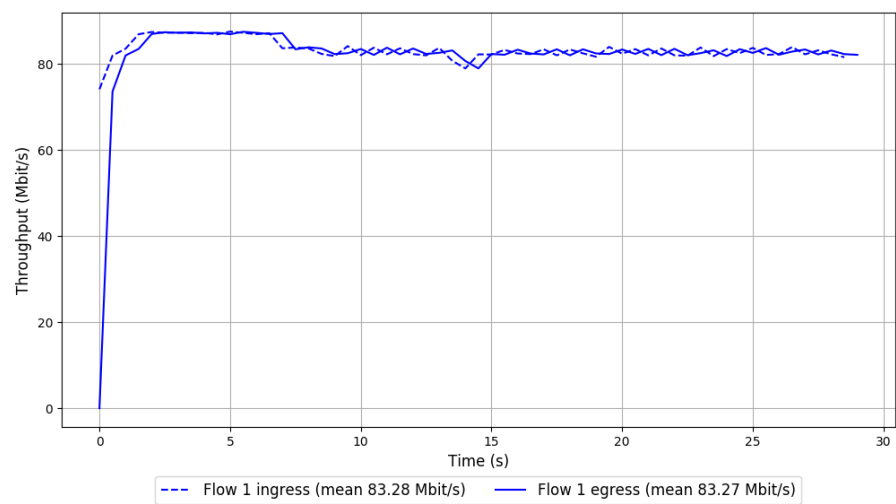
-- Flow 1:

Average throughput: 83.27 Mbit/s

95th percentile per-packet one-way delay: 4.447 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-03-08 22:00:00

End at: 2019-03-08 22:00:30

Local clock offset: -6.377 ms

Remote clock offset: -0.199 ms

# Below is generated by plot.py at 2019-03-08 23:23:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.92 Mbit/s

95th percentile per-packet one-way delay: 4.563 ms

Loss rate: 0.00%

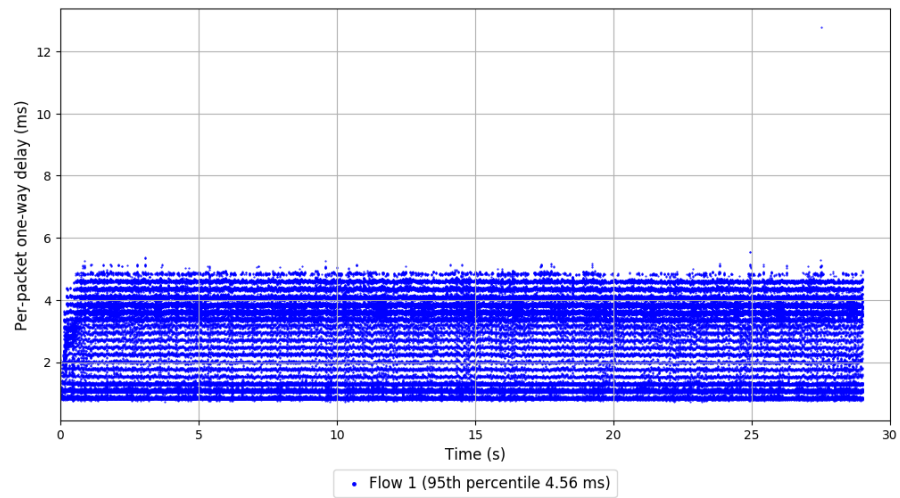
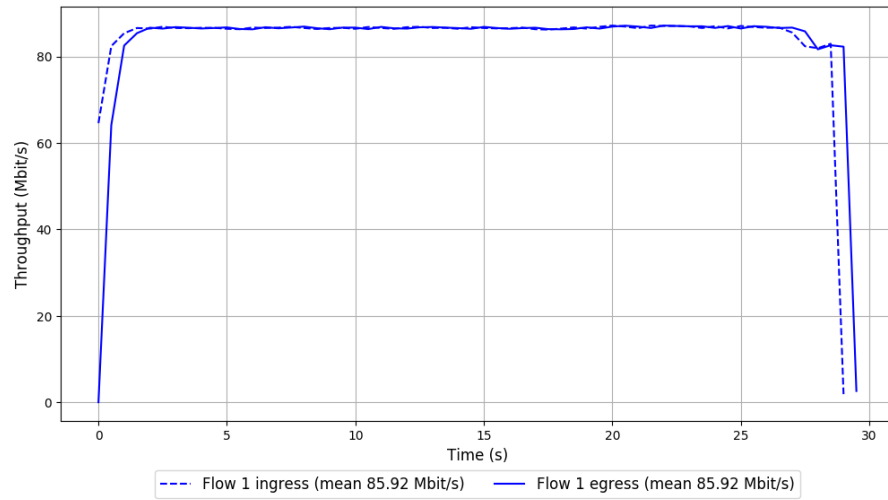
-- Flow 1:

Average throughput: 85.92 Mbit/s

95th percentile per-packet one-way delay: 4.563 ms

Loss rate: 0.00%

## Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-03-08 22:23:27

End at: 2019-03-08 22:23:57

Local clock offset: -6.315 ms

Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2019-03-08 23:23:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 82.29 Mbit/s

95th percentile per-packet one-way delay: 5.290 ms

Loss rate: 0.00%

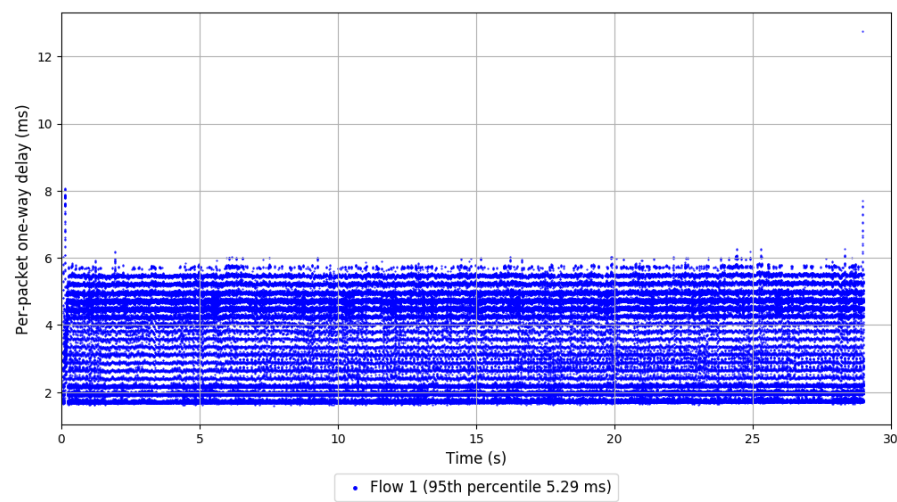
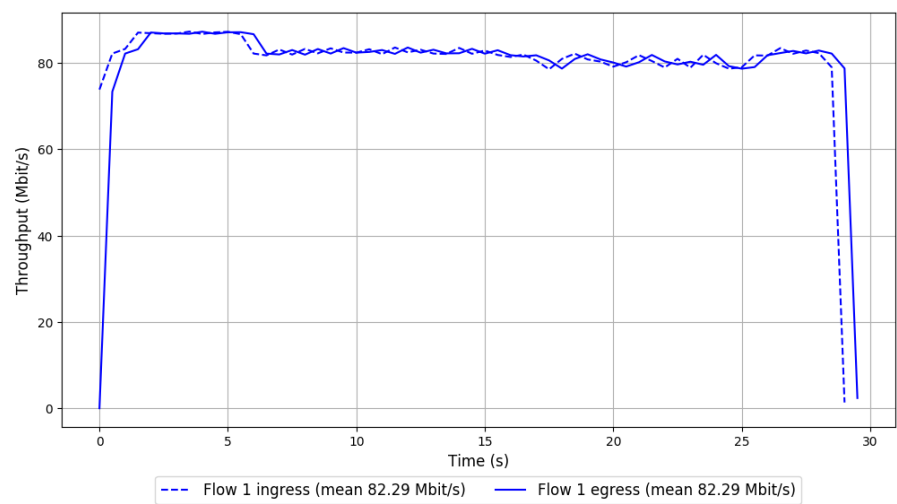
-- Flow 1:

Average throughput: 82.29 Mbit/s

95th percentile per-packet one-way delay: 5.290 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-03-08 22:46:53

End at: 2019-03-08 22:47:23

Local clock offset: -4.961 ms

Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2019-03-08 23:24:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.57 Mbit/s

95th percentile per-packet one-way delay: 4.575 ms

Loss rate: 0.00%

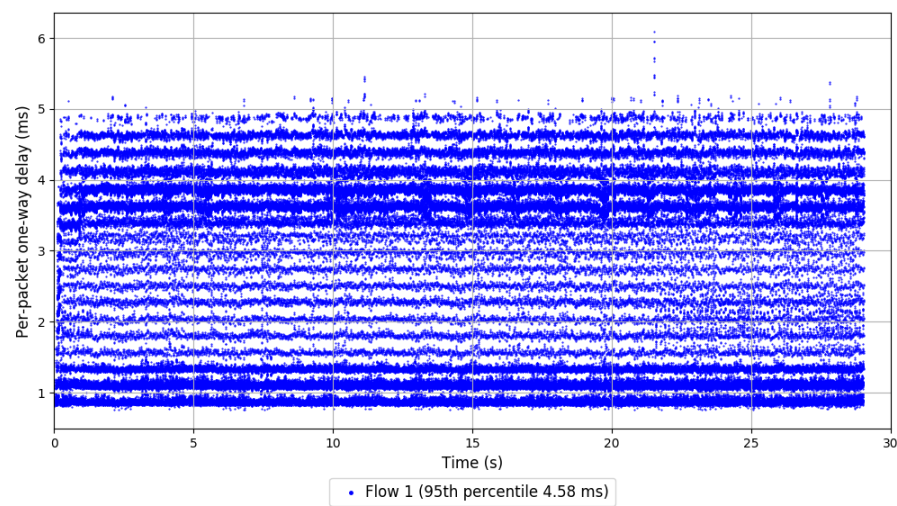
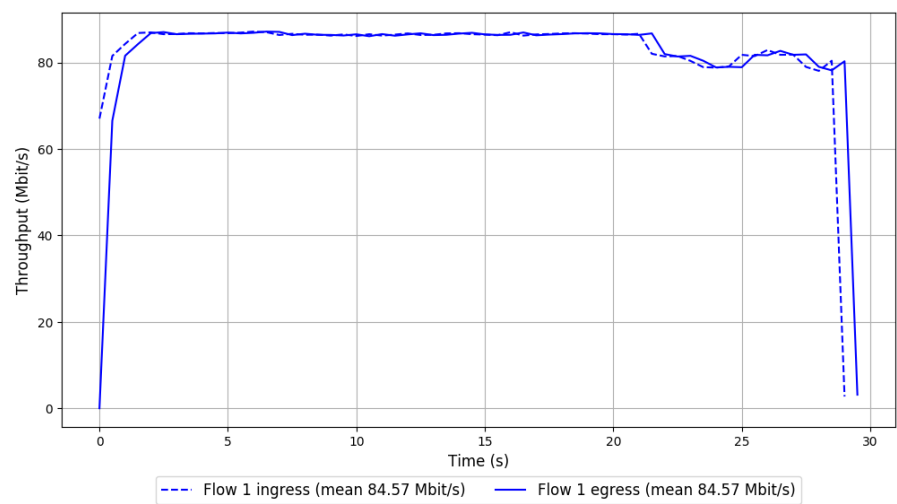
-- Flow 1:

Average throughput: 84.57 Mbit/s

95th percentile per-packet one-way delay: 4.575 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesD — Data Link





Run 5: Statistics of Indigo-MusesD

Start at: 2019-03-08 23:10:21

End at: 2019-03-08 23:10:51

Local clock offset: -5.007 ms

Remote clock offset: 0.07 ms

# Below is generated by plot.py at 2019-03-08 23:24:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 82.93 Mbit/s

95th percentile per-packet one-way delay: 4.775 ms

Loss rate: 0.00%

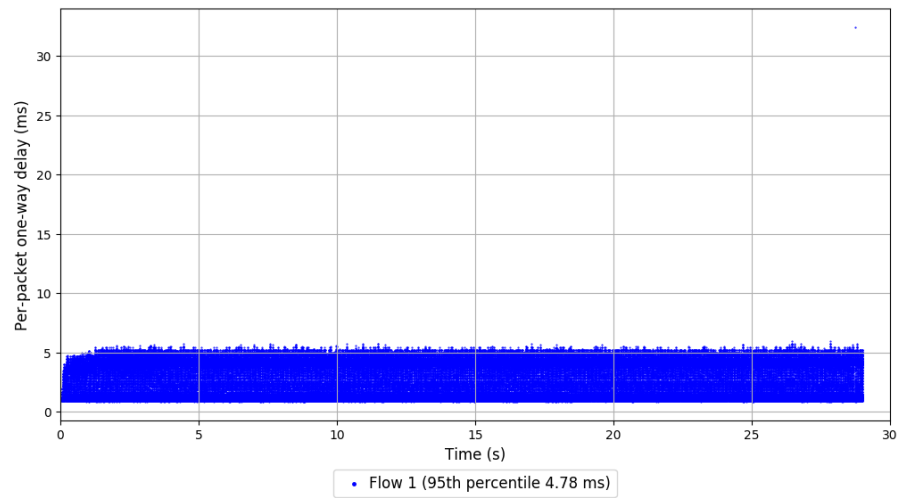
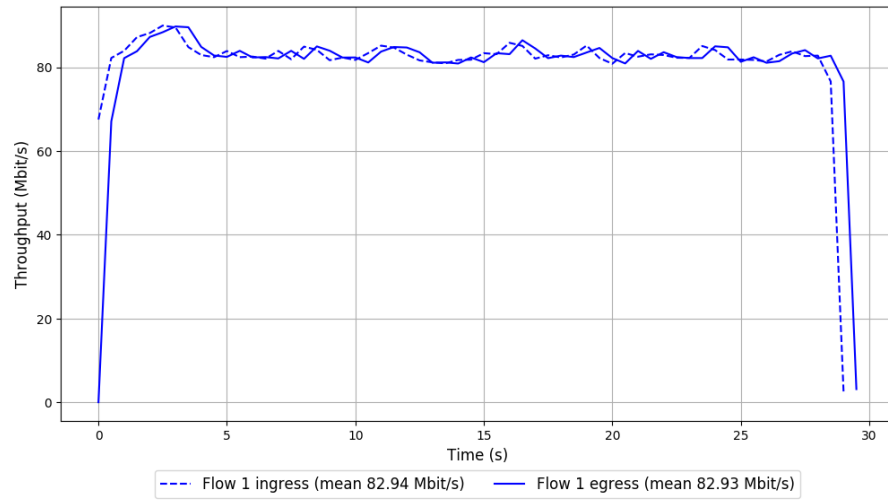
-- Flow 1:

Average throughput: 82.93 Mbit/s

95th percentile per-packet one-way delay: 4.775 ms

Loss rate: 0.00%

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

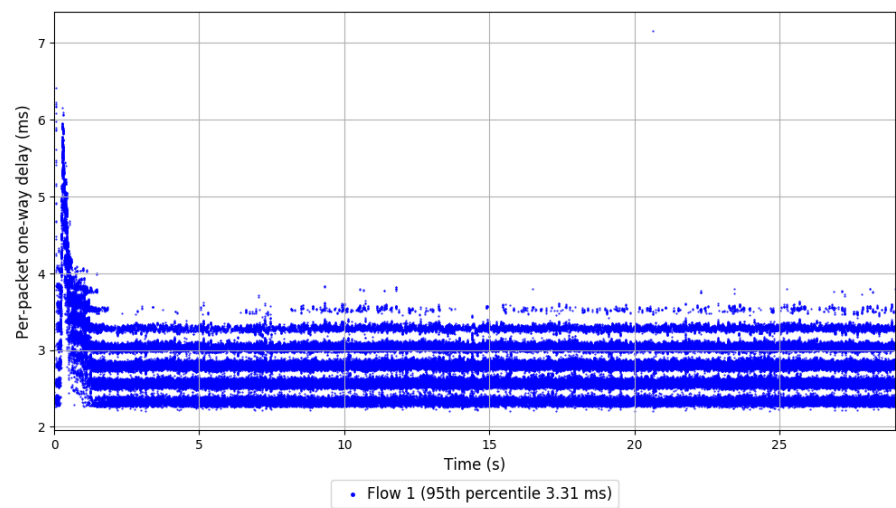
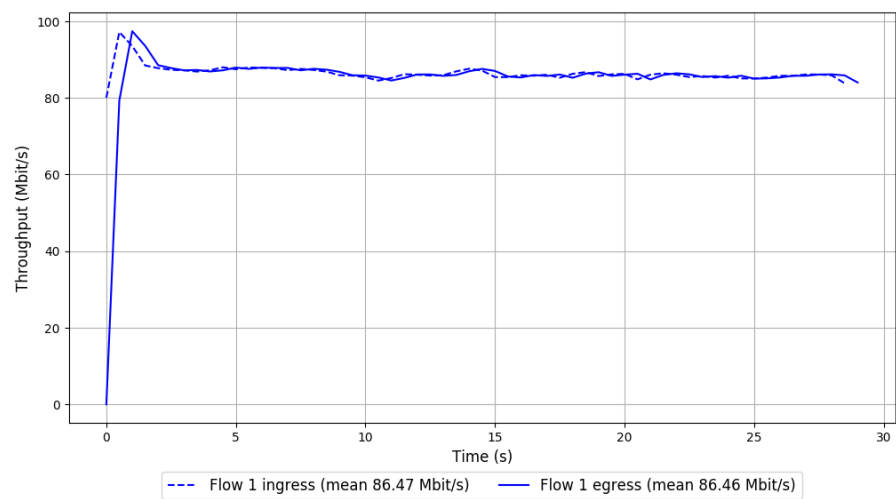


```
Run 1: Statistics of Indigo-MusesT

Start at: 2019-03-08 21:28:45
End at: 2019-03-08 21:29:15
Local clock offset: -5.405 ms
Remote clock offset: -0.326 ms

# Below is generated by plot.py at 2019-03-08 23:24:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.46 Mbit/s
95th percentile per-packet one-way delay: 3.308 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 86.46 Mbit/s
95th percentile per-packet one-way delay: 3.308 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo-MusesT — Data Link

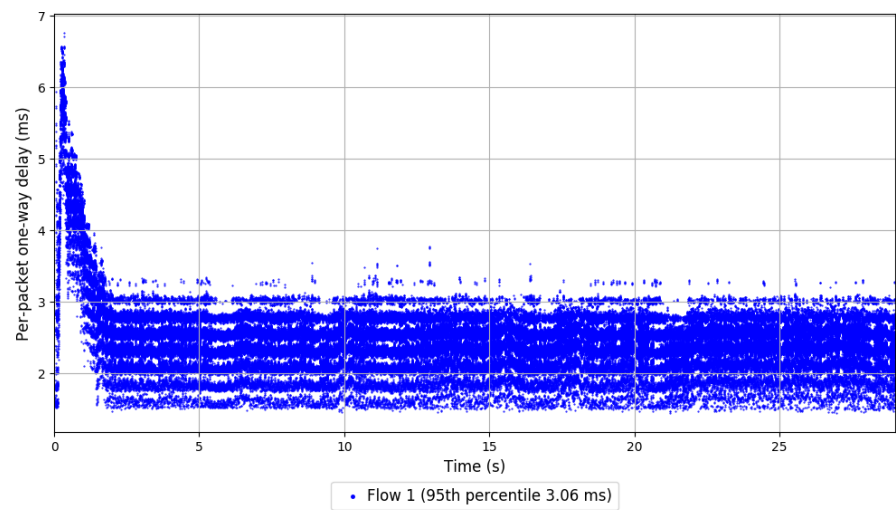
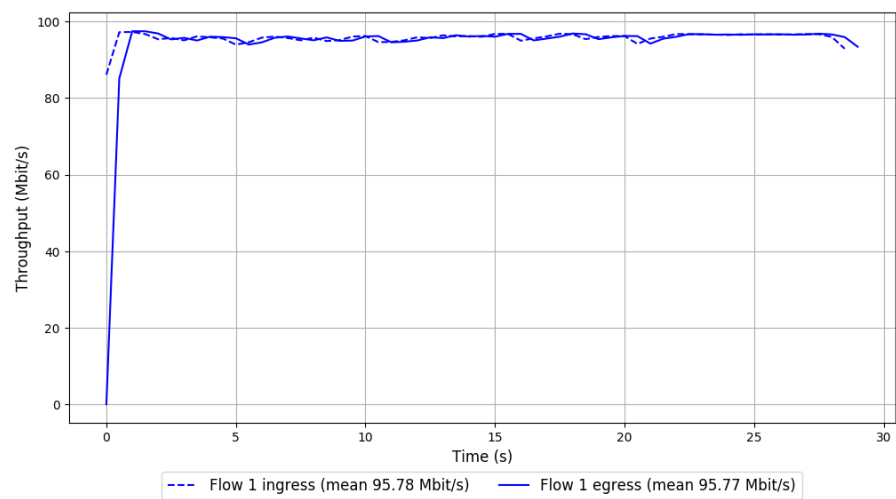


Run 2: Statistics of Indigo-MusesT

Start at: 2019-03-08 21:52:12  
End at: 2019-03-08 21:52:42  
Local clock offset: -6.788 ms  
Remote clock offset: -0.243 ms

# Below is generated by plot.py at 2019-03-08 23:24:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.77 Mbit/s  
95th percentile per-packet one-way delay: 3.064 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 95.77 Mbit/s  
95th percentile per-packet one-way delay: 3.064 ms  
Loss rate: 0.00%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-03-08 22:15:39

End at: 2019-03-08 22:16:09

Local clock offset: -6.53 ms

Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2019-03-08 23:24:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.19 Mbit/s

95th percentile per-packet one-way delay: 2.569 ms

Loss rate: 0.00%

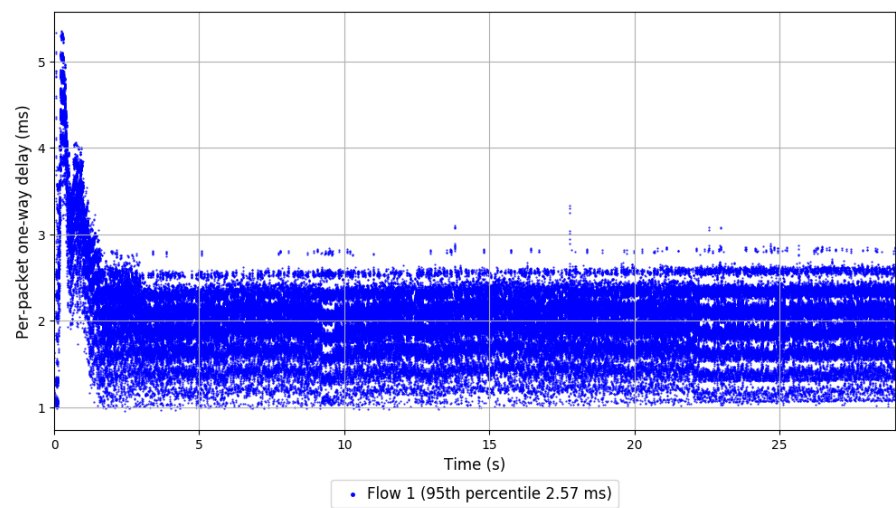
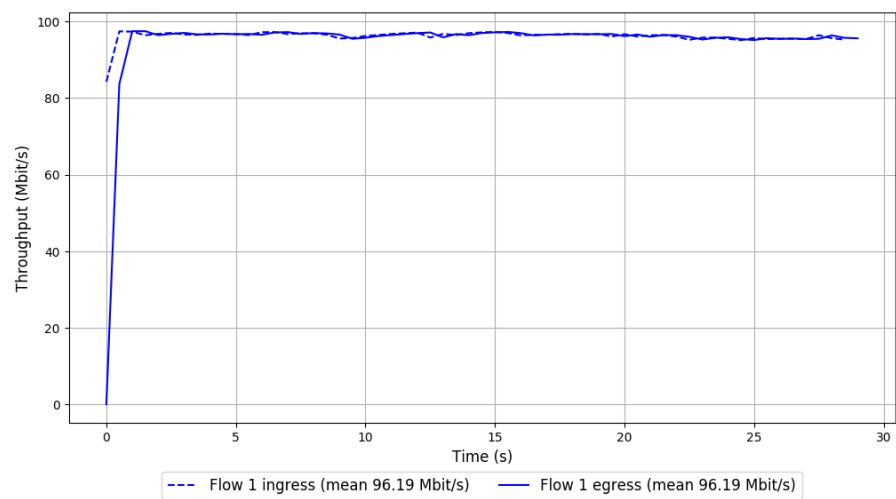
-- Flow 1:

Average throughput: 96.19 Mbit/s

95th percentile per-packet one-way delay: 2.569 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesT — Data Link





Run 4: Statistics of Indigo-MusesT

Start at: 2019-03-08 22:39:06

End at: 2019-03-08 22:39:36

Local clock offset: -5.783 ms

Remote clock offset: -0.006 ms

# Below is generated by plot.py at 2019-03-08 23:24:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.53 Mbit/s

95th percentile per-packet one-way delay: 4.199 ms

Loss rate: 0.00%

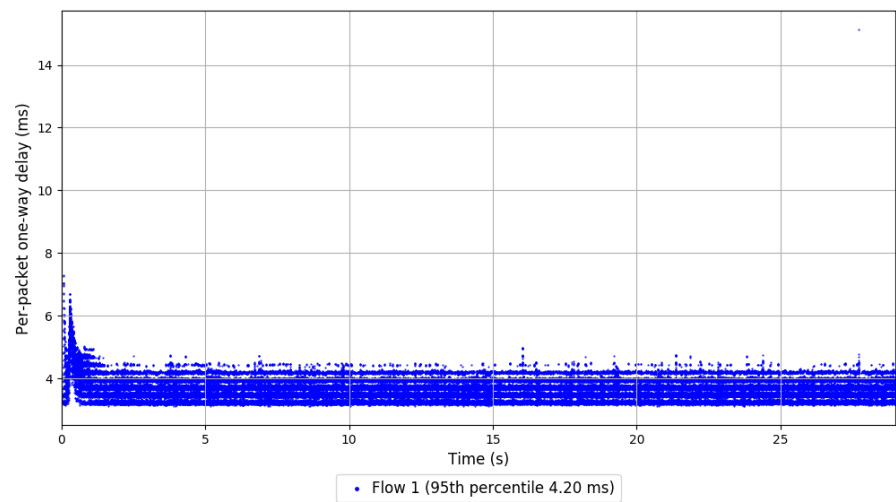
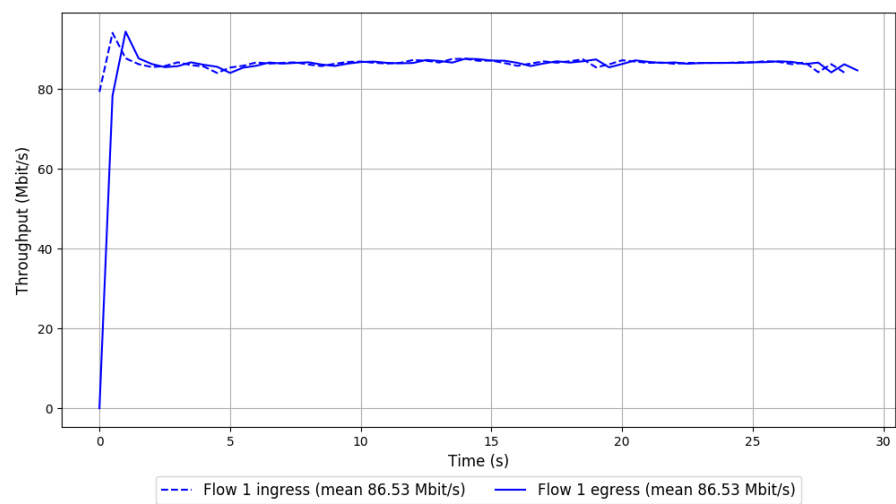
-- Flow 1:

Average throughput: 86.53 Mbit/s

95th percentile per-packet one-way delay: 4.199 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-03-08 23:02:31

End at: 2019-03-08 23:03:02

Local clock offset: -5.798 ms

Remote clock offset: 0.047 ms

# Below is generated by plot.py at 2019-03-08 23:24:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.89 Mbit/s

95th percentile per-packet one-way delay: 4.191 ms

Loss rate: 0.00%

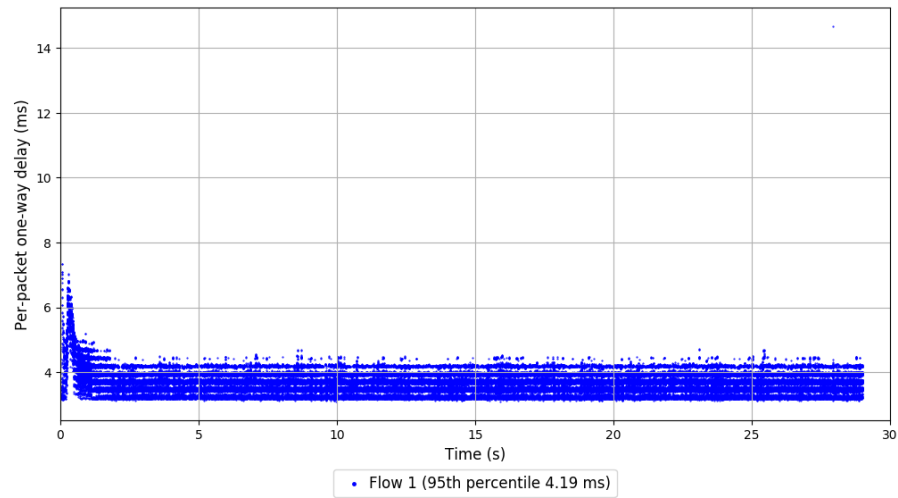
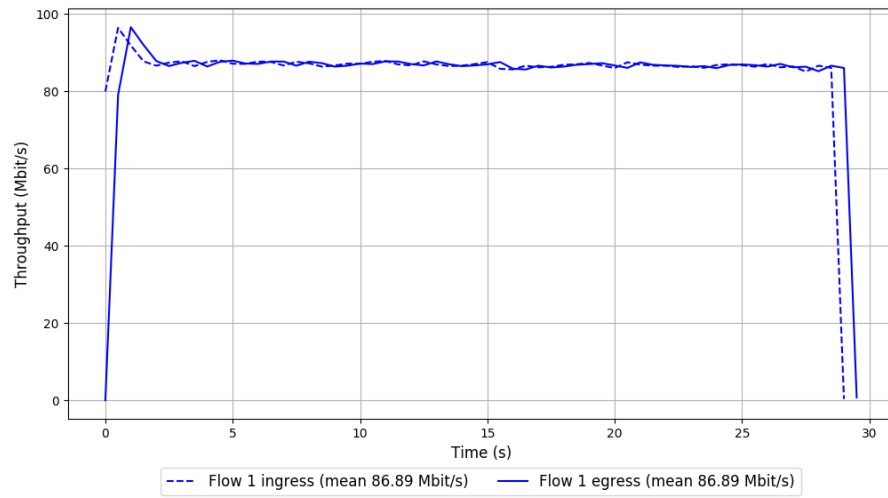
-- Flow 1:

Average throughput: 86.89 Mbit/s

95th percentile per-packet one-way delay: 4.191 ms

Loss rate: 0.00%

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

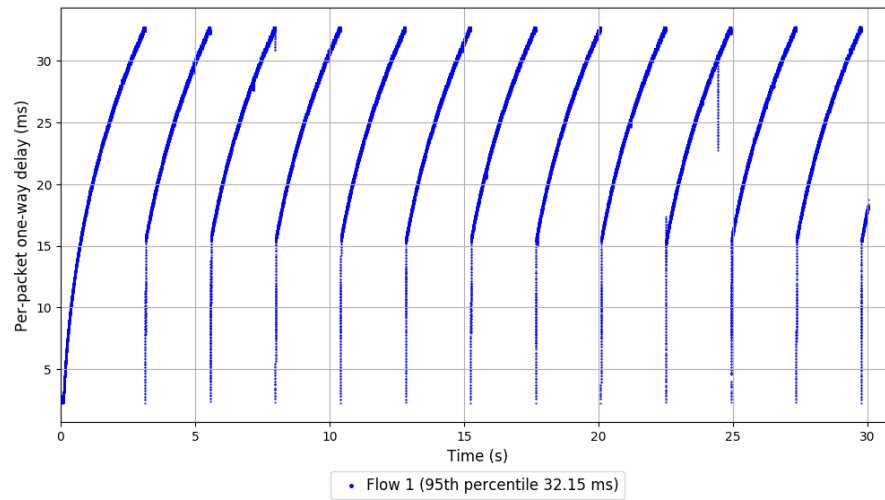
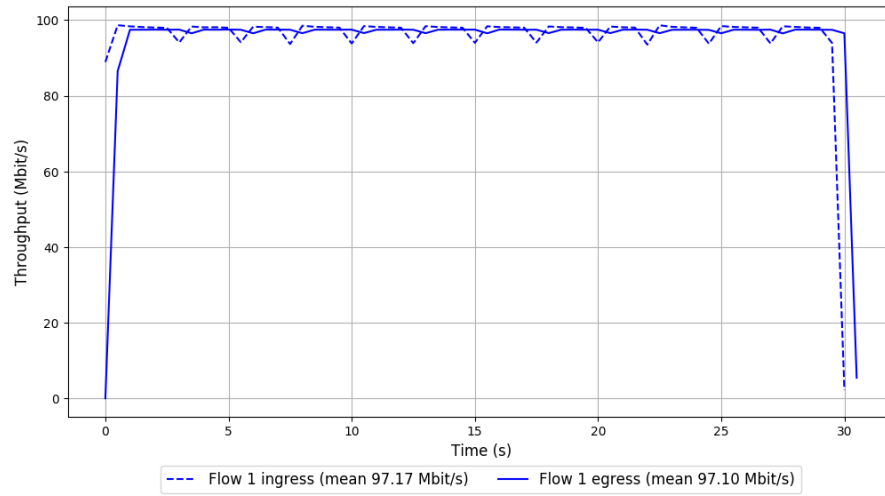


Run 1: Statistics of LEDBAT

Start at: 2019-03-08 21:39:54  
End at: 2019-03-08 21:40:24  
Local clock offset: -5.353 ms  
Remote clock offset: -0.223 ms

# Below is generated by plot.py at 2019-03-08 23:25:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.10 Mbit/s  
95th percentile per-packet one-way delay: 32.149 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 97.10 Mbit/s  
95th percentile per-packet one-way delay: 32.149 ms  
Loss rate: 0.01%

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

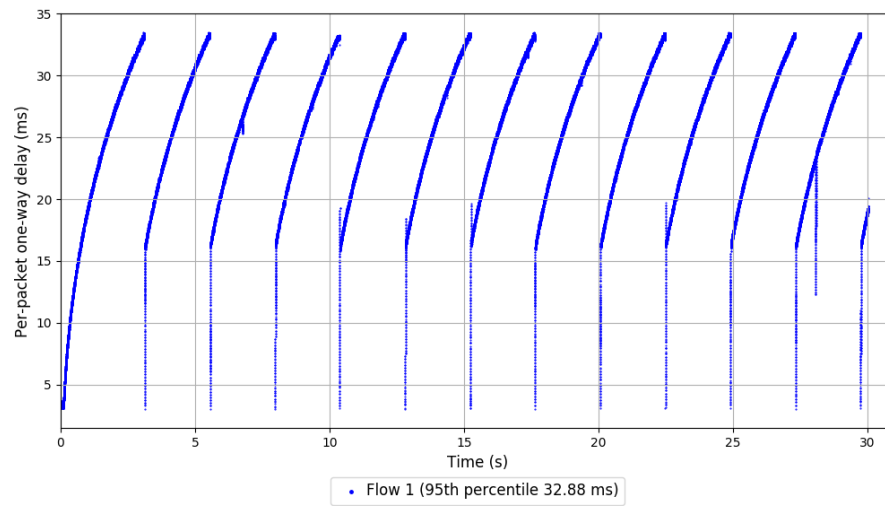
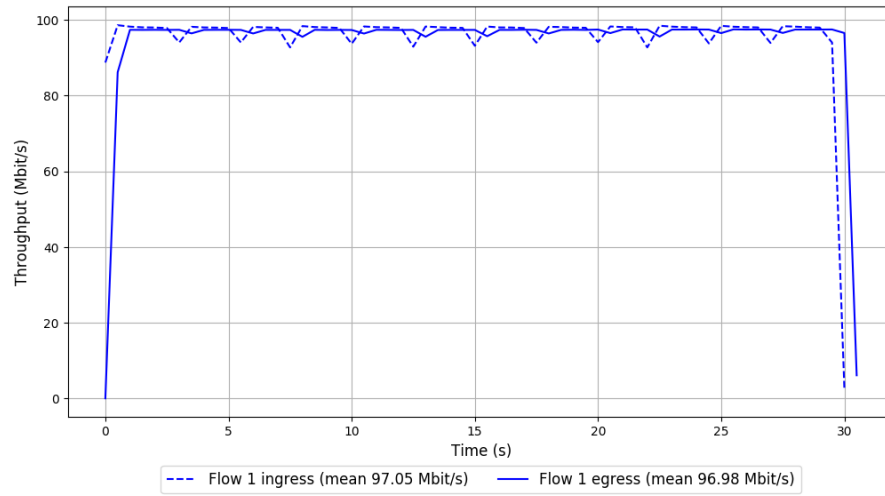


Run 2: Statistics of LEDBAT

Start at: 2019-03-08 22:03:20  
End at: 2019-03-08 22:03:50  
Local clock offset: -7.238 ms  
Remote clock offset: -0.171 ms

# Below is generated by plot.py at 2019-03-08 23:25:11  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.98 Mbit/s  
95th percentile per-packet one-way delay: 32.882 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 96.98 Mbit/s  
95th percentile per-packet one-way delay: 32.882 ms  
Loss rate: 0.01%

## Run 2: Report of LEDBAT — Data Link





Run 3: Statistics of LEDBAT

Start at: 2019-03-08 22:26:47

End at: 2019-03-08 22:27:17

Local clock offset: -5.345 ms

Remote clock offset: -0.21 ms

# Below is generated by plot.py at 2019-03-08 23:25:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.21 Mbit/s

95th percentile per-packet one-way delay: 30.563 ms

Loss rate: 0.01%

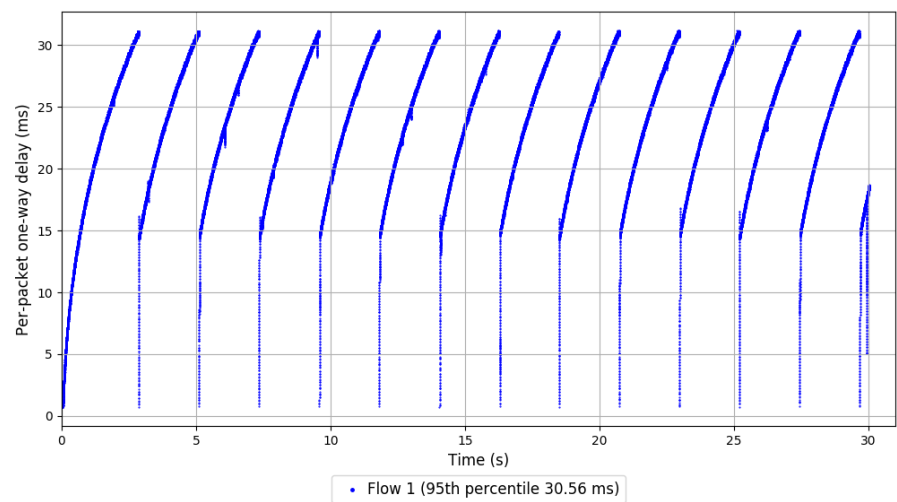
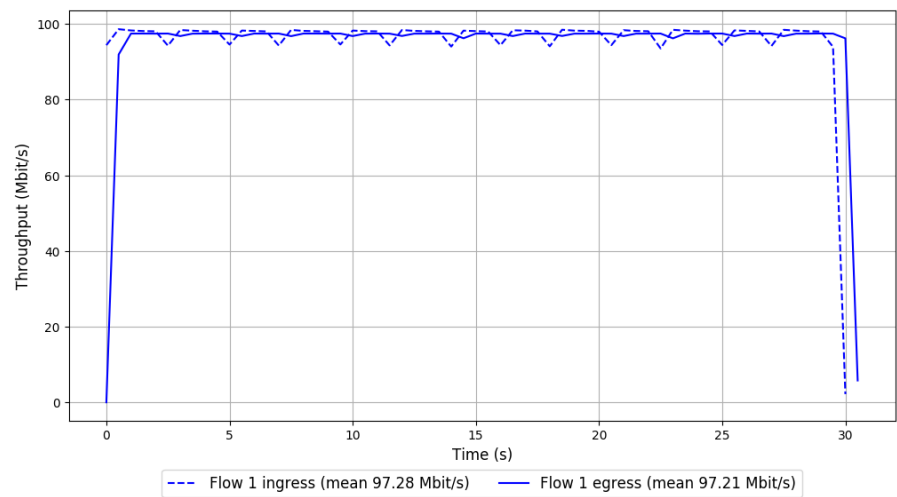
-- Flow 1:

Average throughput: 97.21 Mbit/s

95th percentile per-packet one-way delay: 30.563 ms

Loss rate: 0.01%

Run 3: Report of LEDBAT — Data Link

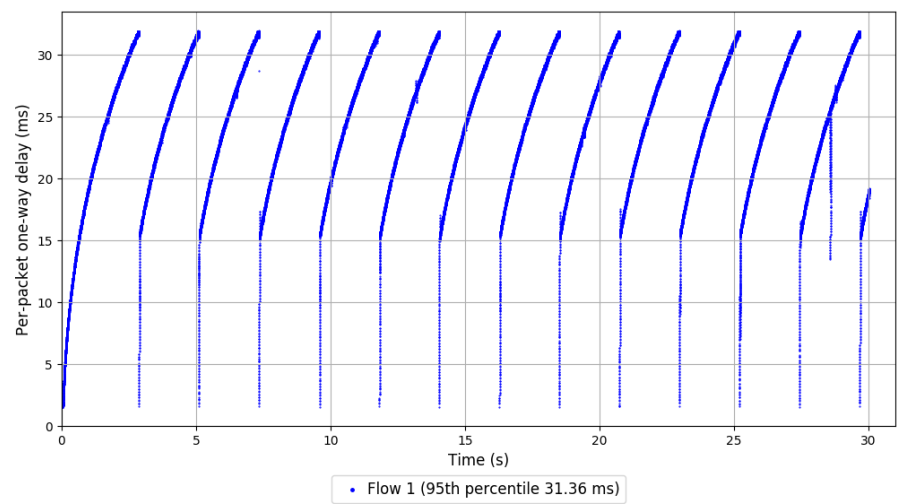
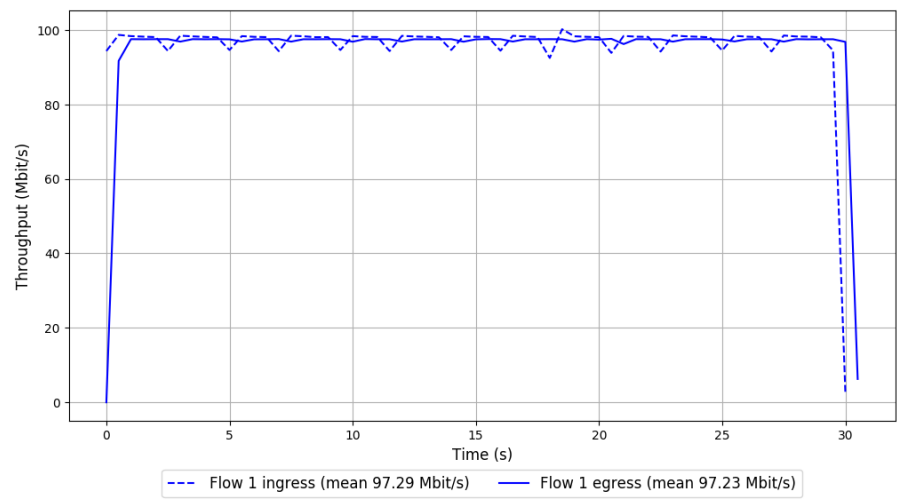


Run 4: Statistics of LEDBAT

Start at: 2019-03-08 22:50:13  
End at: 2019-03-08 22:50:43  
Local clock offset: -5.715 ms  
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2019-03-08 23:25:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.23 Mbit/s  
95th percentile per-packet one-way delay: 31.361 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 97.23 Mbit/s  
95th percentile per-packet one-way delay: 31.361 ms  
Loss rate: 0.01%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-03-08 23:13:41

End at: 2019-03-08 23:14:11

Local clock offset: -5.002 ms

Remote clock offset: 0.019 ms

# Below is generated by plot.py at 2019-03-08 23:25:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.09 Mbit/s

95th percentile per-packet one-way delay: 32.153 ms

Loss rate: 0.01%

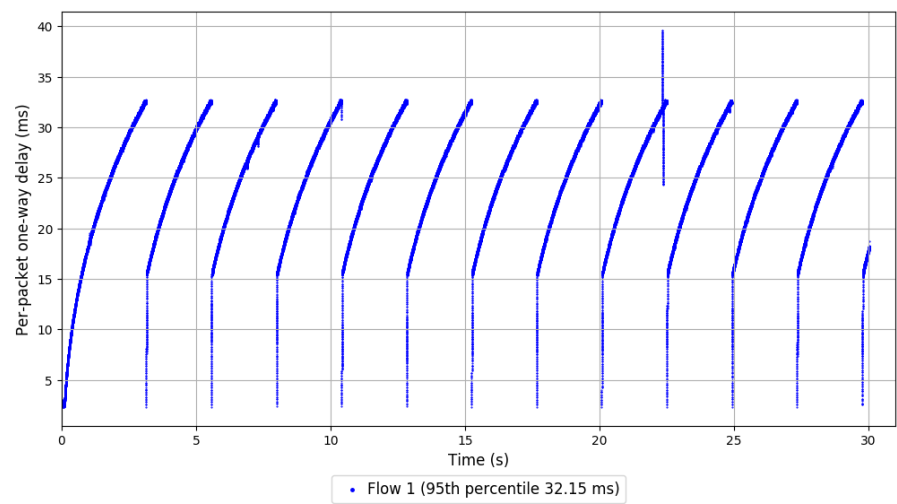
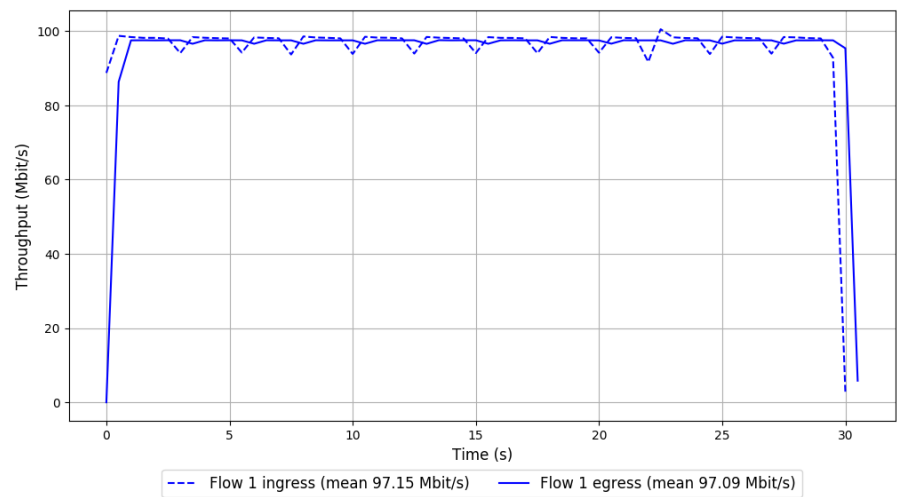
-- Flow 1:

Average throughput: 97.09 Mbit/s

95th percentile per-packet one-way delay: 32.153 ms

Loss rate: 0.01%

Run 5: Report of LEDBAT — Data Link

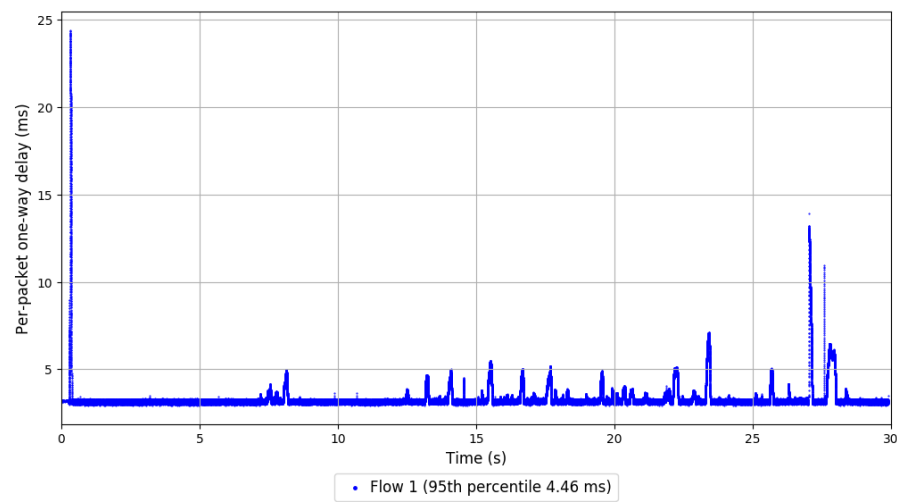
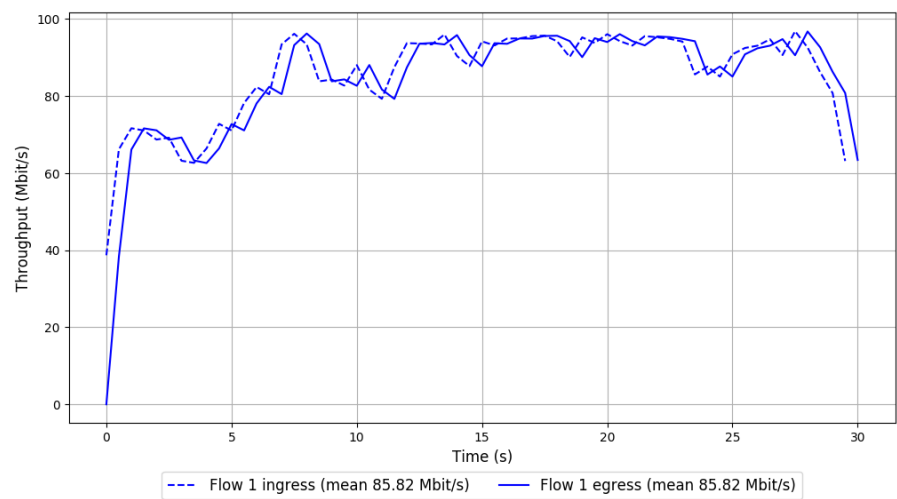


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-03-08 21:35:27
End at: 2019-03-08 21:35:57
Local clock offset: -6.128 ms
Remote clock offset: -0.265 ms

# Below is generated by plot.py at 2019-03-08 23:25:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.82 Mbit/s
95th percentile per-packet one-way delay: 4.461 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.82 Mbit/s
95th percentile per-packet one-way delay: 4.461 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Allegro — Data Link





Run 2: Statistics of PCC-Allegro

Start at: 2019-03-08 21:58:53

End at: 2019-03-08 21:59:23

Local clock offset: -6.345 ms

Remote clock offset: -0.171 ms

# Below is generated by plot.py at 2019-03-08 23:25:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.18 Mbit/s

95th percentile per-packet one-way delay: 4.543 ms

Loss rate: 0.00%

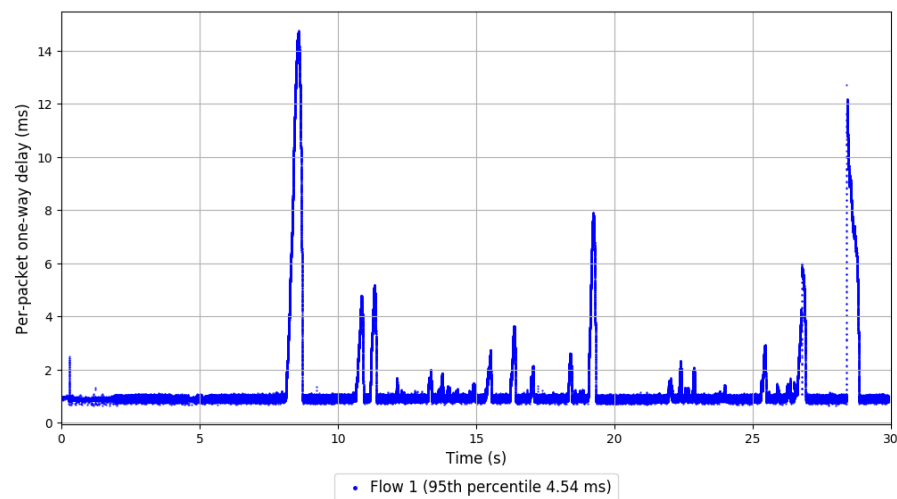
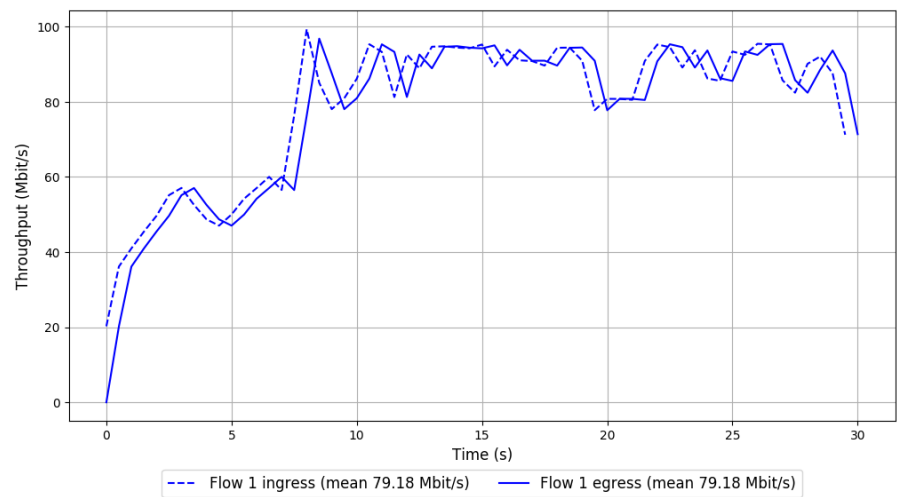
-- Flow 1:

Average throughput: 79.18 Mbit/s

95th percentile per-packet one-way delay: 4.543 ms

Loss rate: 0.00%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-03-08 22:22:20

End at: 2019-03-08 22:22:50

Local clock offset: -6.407 ms

Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2019-03-08 23:26:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.88 Mbit/s

95th percentile per-packet one-way delay: 3.230 ms

Loss rate: 0.00%

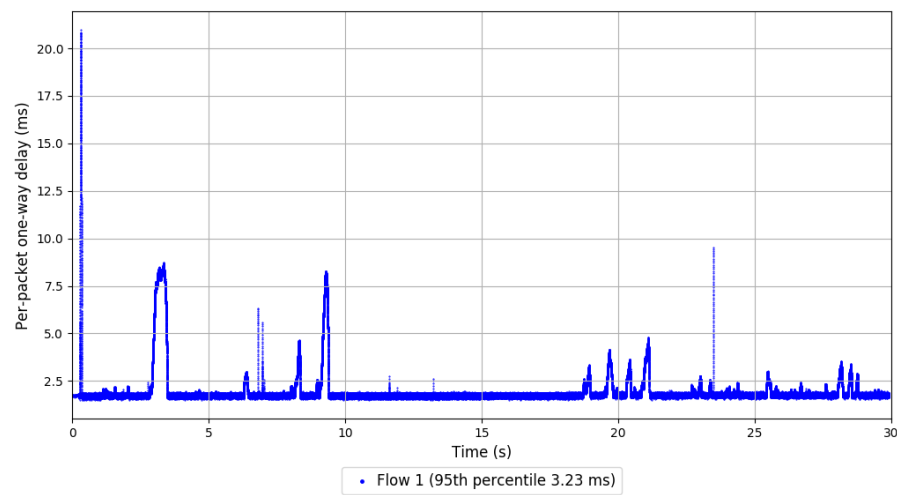
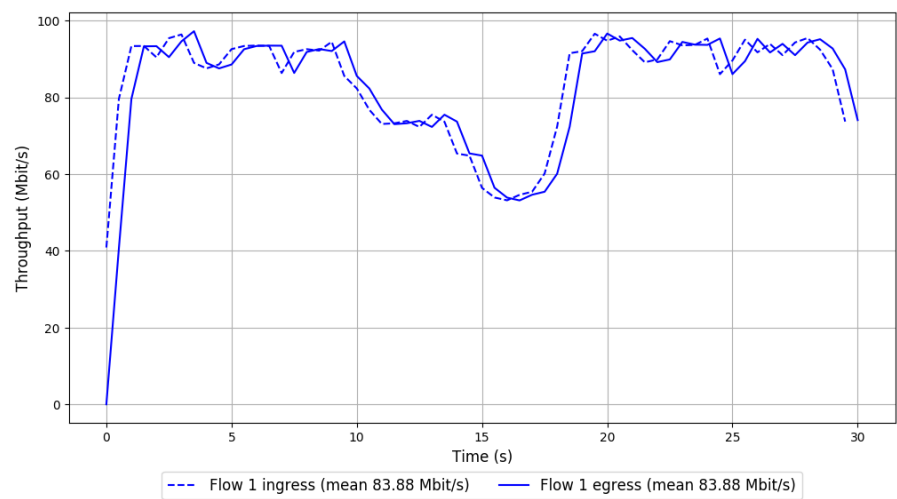
-- Flow 1:

Average throughput: 83.88 Mbit/s

95th percentile per-packet one-way delay: 3.230 ms

Loss rate: 0.00%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-03-08 22:45:47

End at: 2019-03-08 22:46:17

Local clock offset: -4.938 ms

Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2019-03-08 23:26:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 67.61 Mbit/s

95th percentile per-packet one-way delay: 0.992 ms

Loss rate: 0.00%

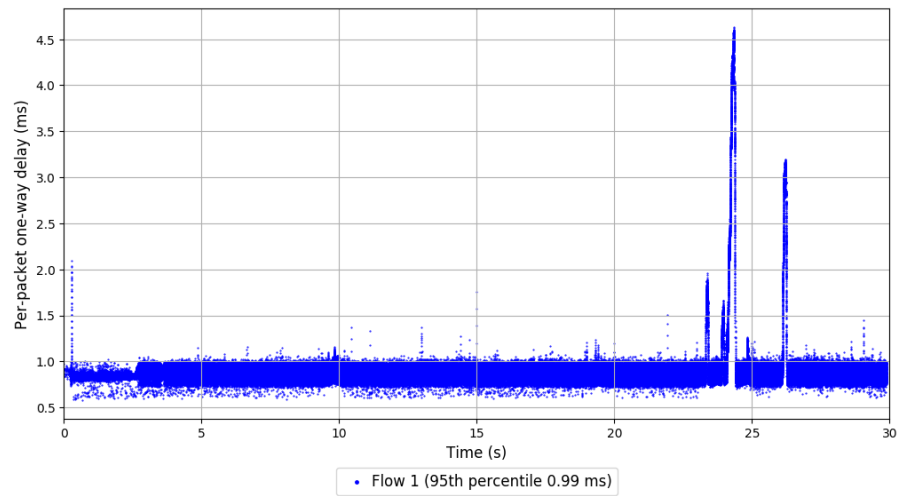
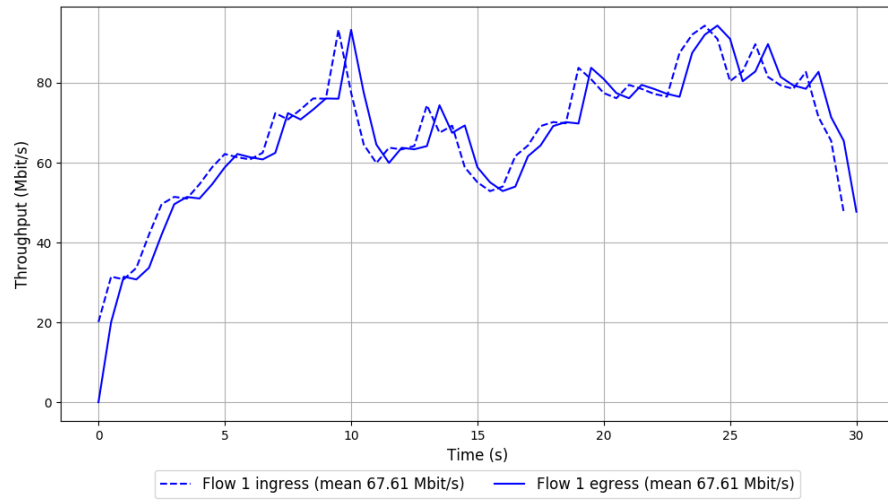
-- Flow 1:

Average throughput: 67.61 Mbit/s

95th percentile per-packet one-way delay: 0.992 ms

Loss rate: 0.00%

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



Run 5: Statistics of PCC-Allegro

Start at: 2019-03-08 23:09:14

End at: 2019-03-08 23:09:44

Local clock offset: -5.775 ms

Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2019-03-08 23:26:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.55 Mbit/s

95th percentile per-packet one-way delay: 4.537 ms

Loss rate: 0.01%

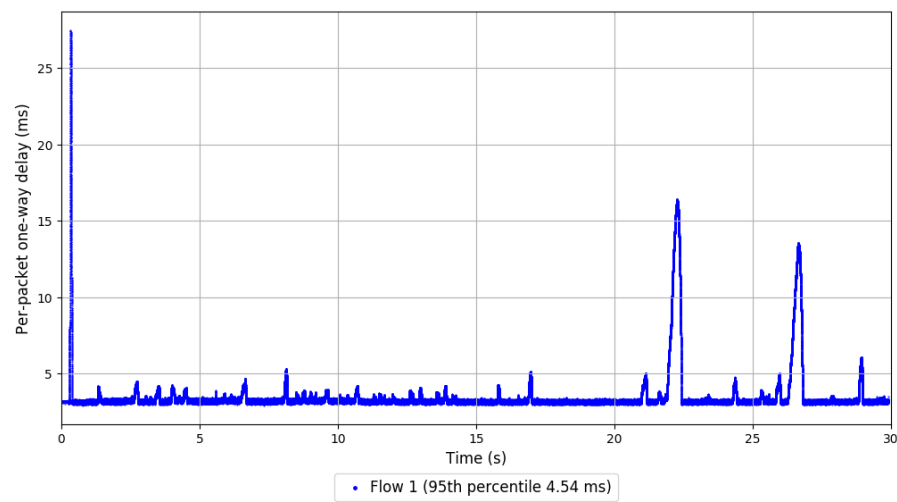
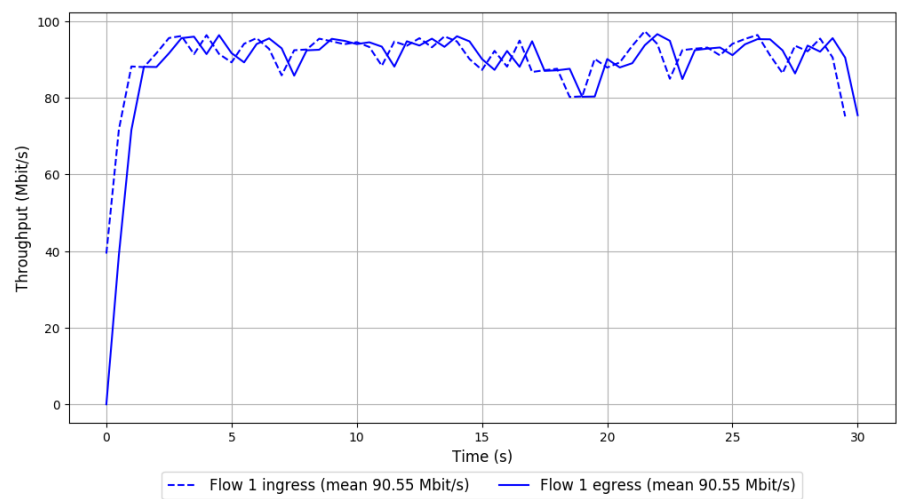
-- Flow 1:

Average throughput: 90.55 Mbit/s

95th percentile per-packet one-way delay: 4.537 ms

Loss rate: 0.01%

Run 5: Report of PCC-Allegro — Data Link





Run 1: Statistics of PCC-Expr

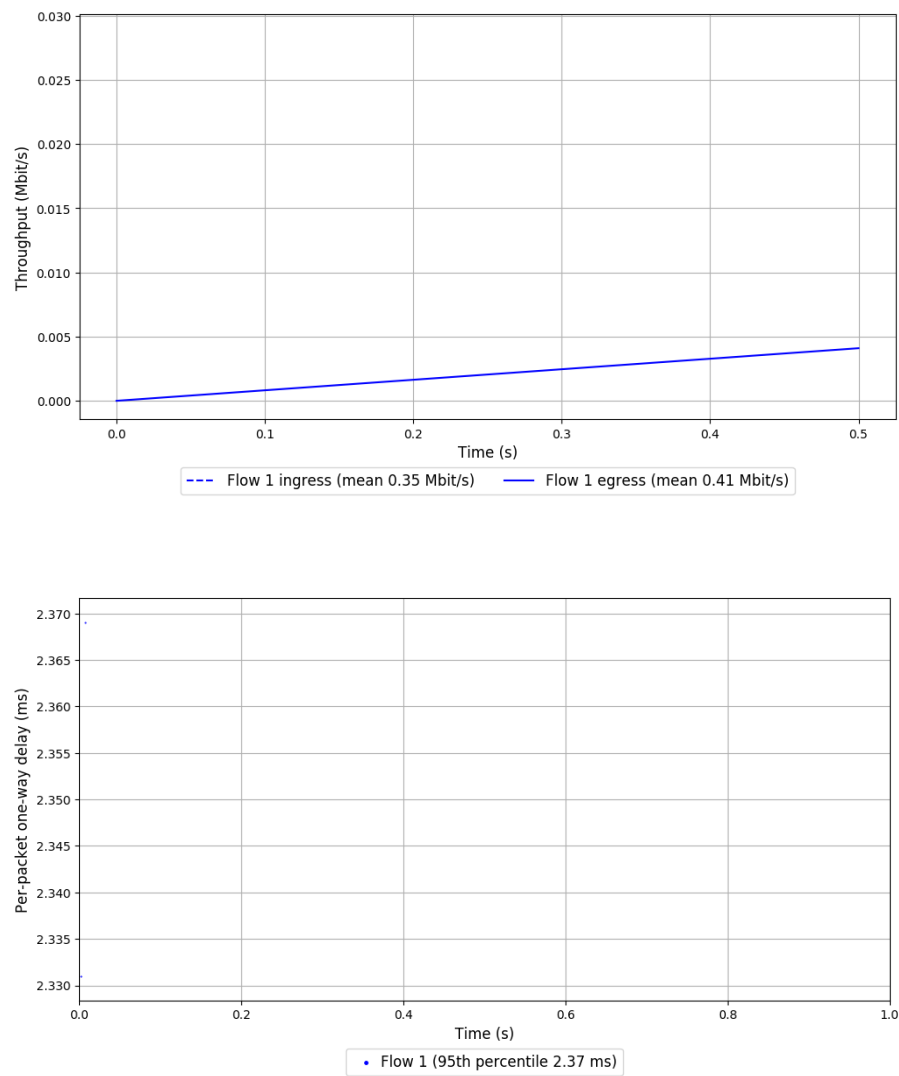
Start at: 2019-03-08 21:38:49

End at: 2019-03-08 21:39:19

Local clock offset: -5.357 ms

Remote clock offset: -0.27 ms

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

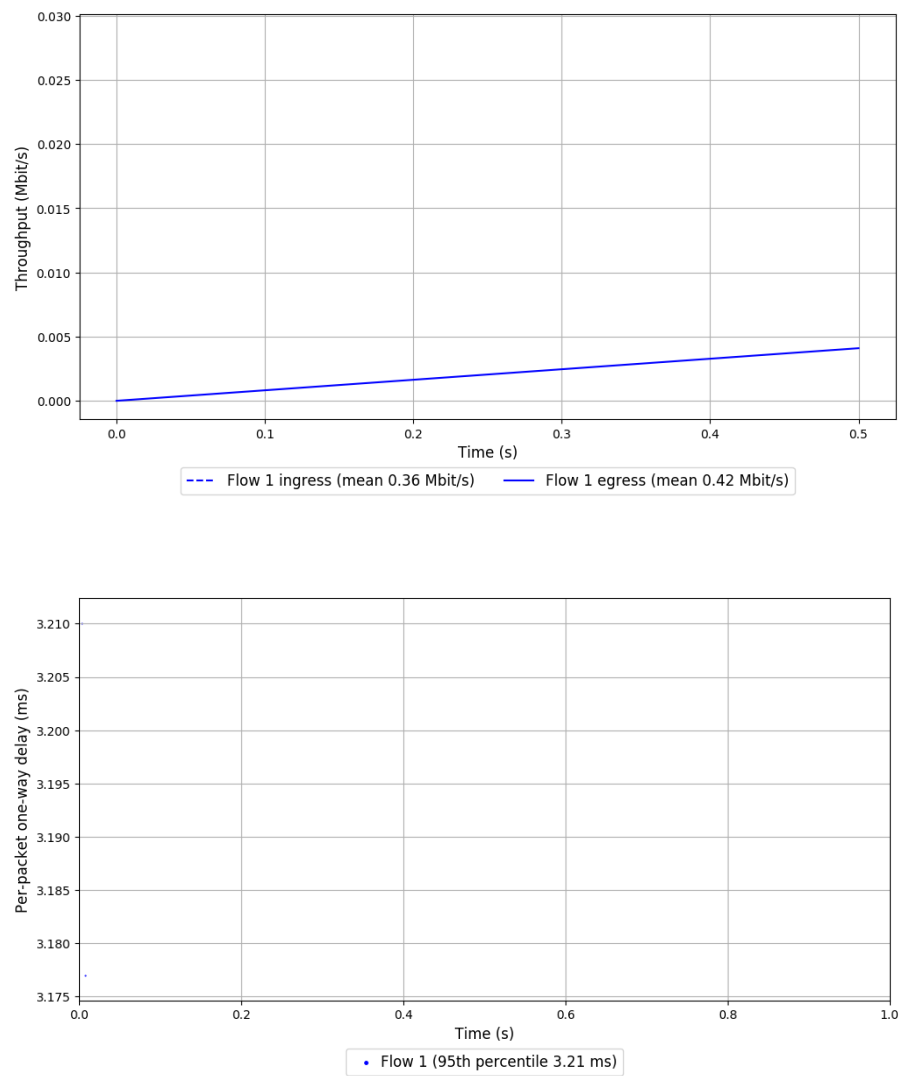
Start at: 2019-03-08 22:02:16

End at: 2019-03-08 22:02:46

Local clock offset: -7.204 ms

Remote clock offset: -0.153 ms

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

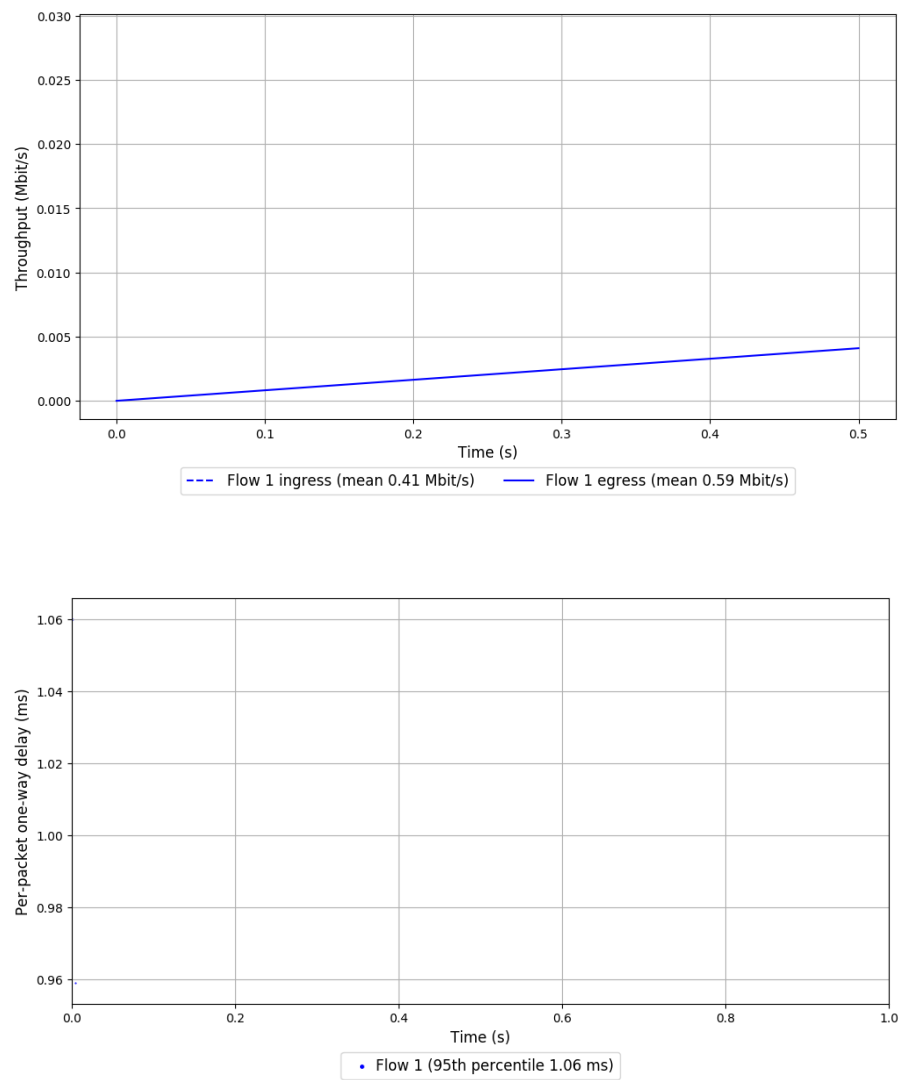
Start at: 2019-03-08 22:25:43

End at: 2019-03-08 22:26:13

Local clock offset: -5.462 ms

Remote clock offset: -0.139 ms

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

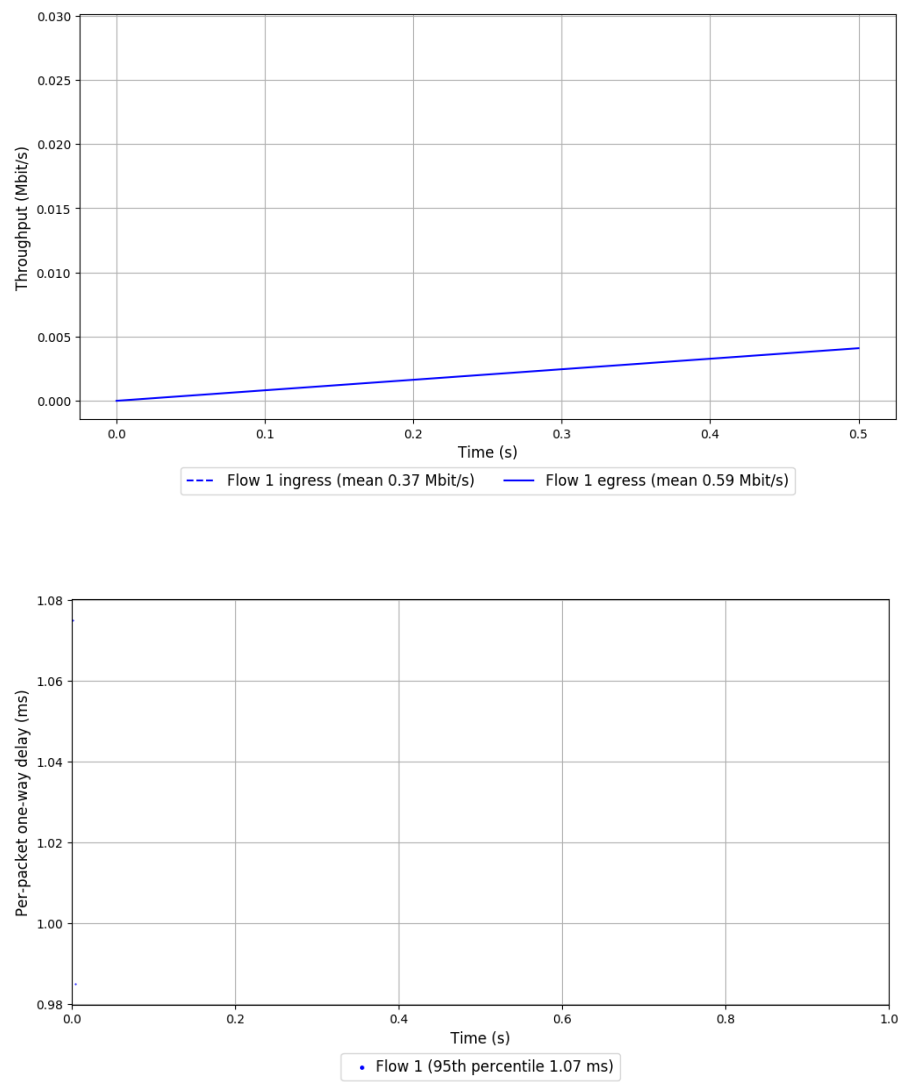
Start at: 2019-03-08 22:49:09

End at: 2019-03-08 22:49:39

Local clock offset: -4.992 ms

Remote clock offset: 0.027 ms

Run 4: Report of PCC-Expr — Data Link





Run 5: Statistics of PCC-Expr

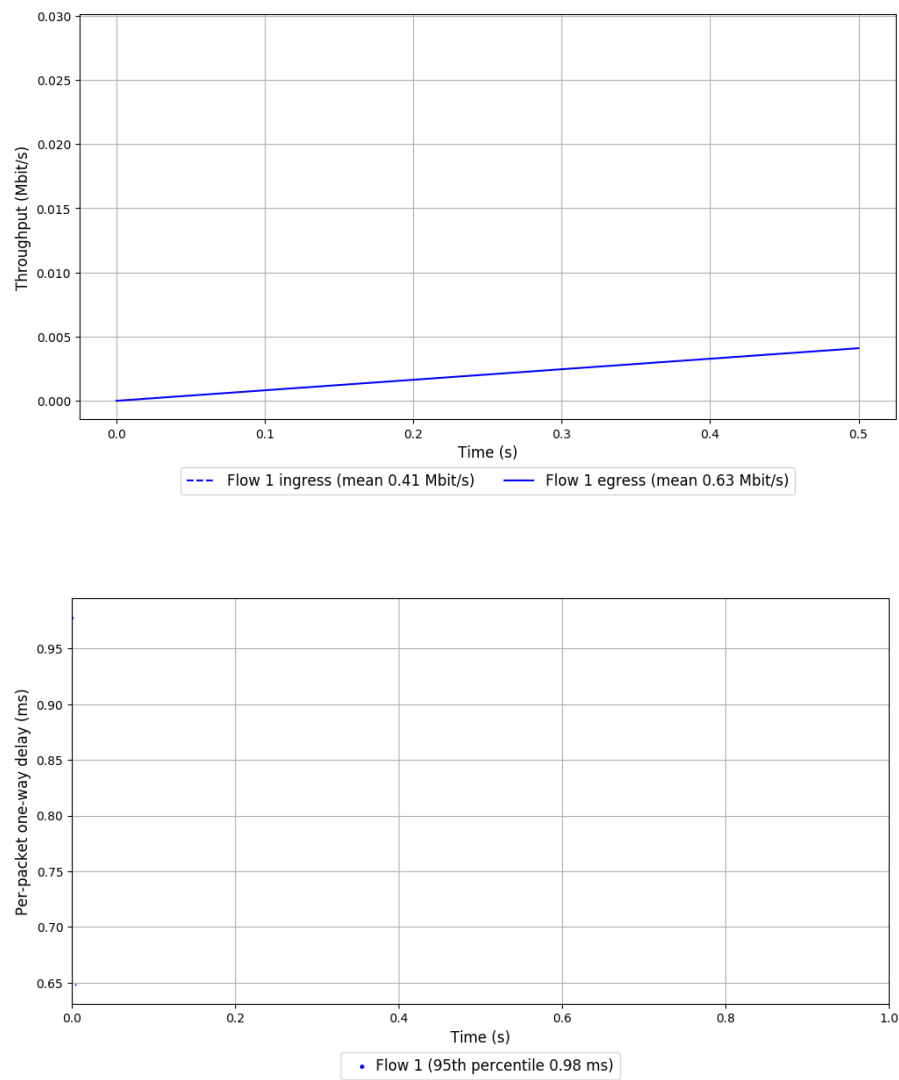
Start at: 2019-03-08 23:12:37

End at: 2019-03-08 23:13:07

Local clock offset: -4.952 ms

Remote clock offset: 0.025 ms

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-03-08 21:19:48

End at: 2019-03-08 21:20:19

Local clock offset: -5.656 ms

Remote clock offset: -0.287 ms

# Below is generated by plot.py at 2019-03-08 23:26:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 77.90 Mbit/s

95th percentile per-packet one-way delay: 1.361 ms

Loss rate: 0.14%

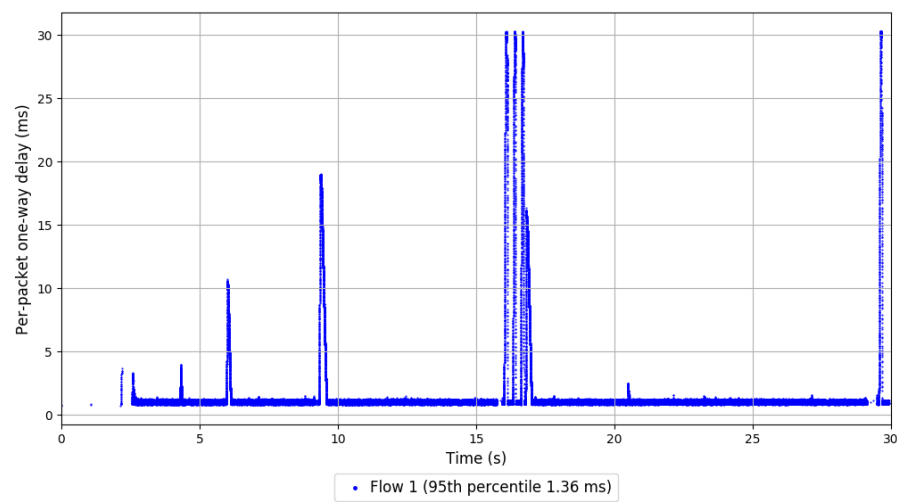
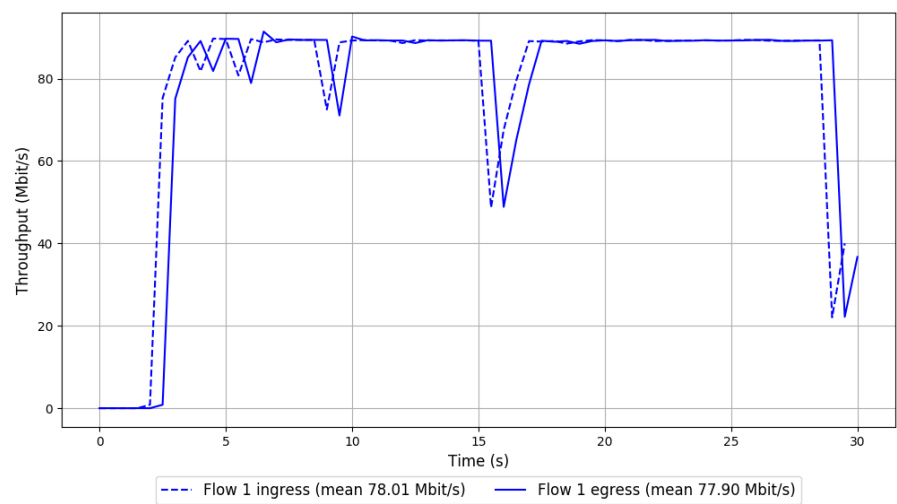
-- Flow 1:

Average throughput: 77.90 Mbit/s

95th percentile per-packet one-way delay: 1.361 ms

Loss rate: 0.14%

Run 1: Report of QUIC Cubic — Data Link

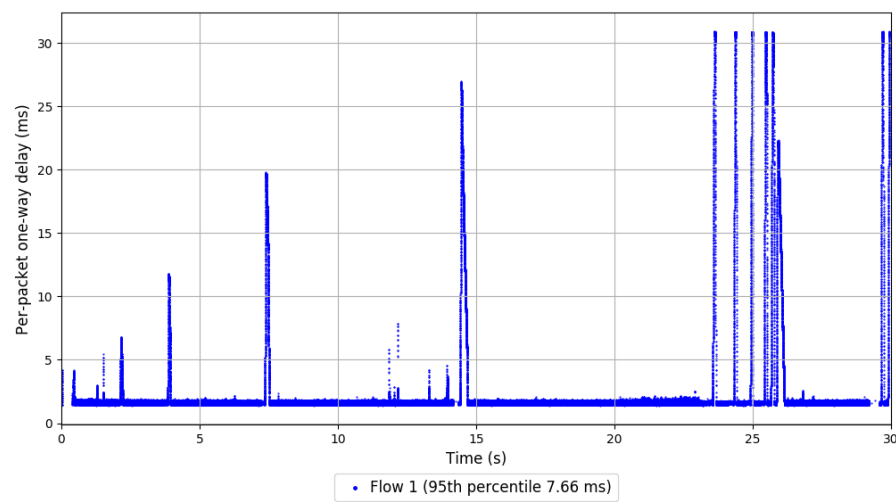
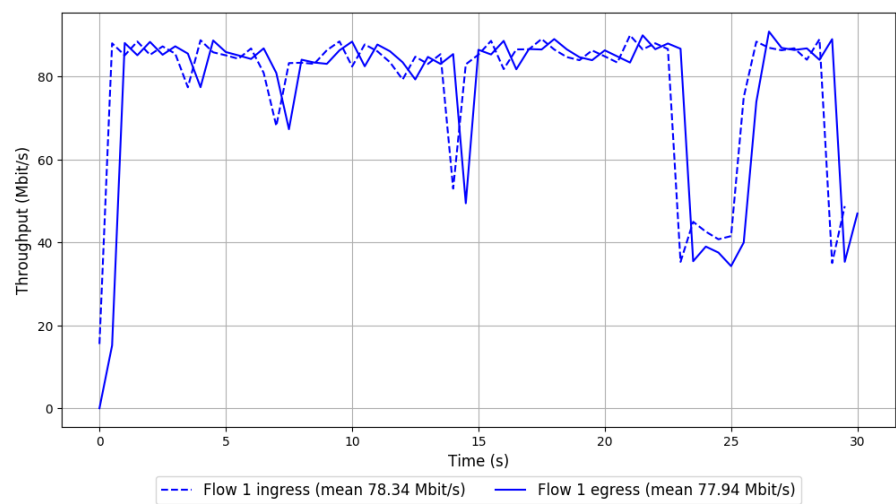


Run 2: Statistics of QUIC Cubic

Start at: 2019-03-08 21:43:15  
End at: 2019-03-08 21:43:45  
Local clock offset: -6.112 ms  
Remote clock offset: -0.323 ms

# Below is generated by plot.py at 2019-03-08 23:26:43  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 77.94 Mbit/s  
95th percentile per-packet one-way delay: 7.658 ms  
Loss rate: 0.41%  
-- Flow 1:  
Average throughput: 77.94 Mbit/s  
95th percentile per-packet one-way delay: 7.658 ms  
Loss rate: 0.41%

Run 2: Report of QUIC Cubic — Data Link

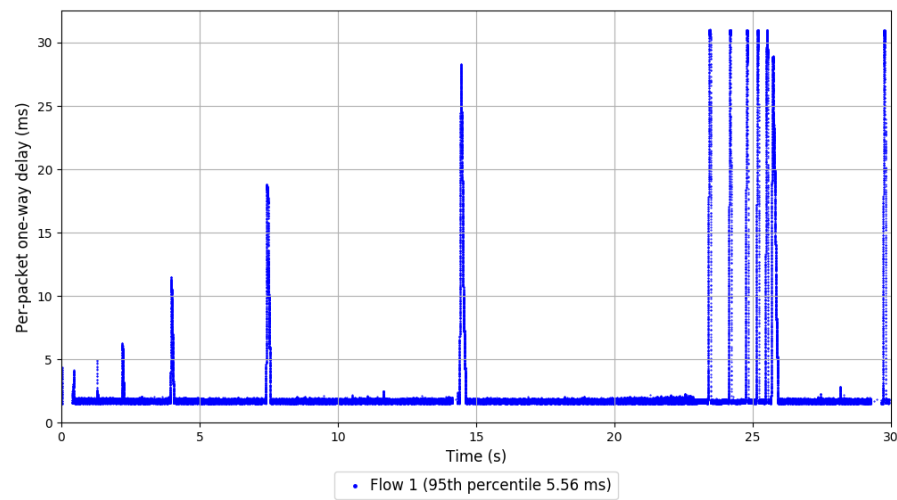
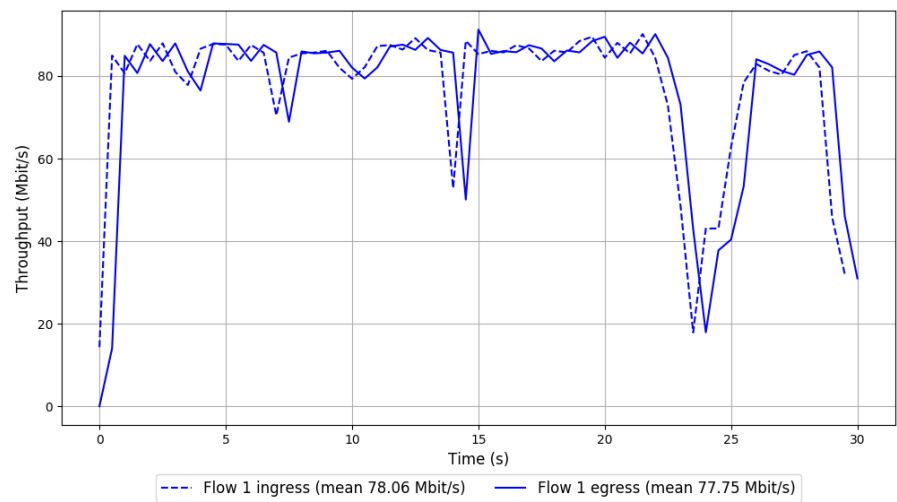


Run 3: Statistics of QUIC Cubic

Start at: 2019-03-08 22:06:41  
End at: 2019-03-08 22:07:11  
Local clock offset: -7.399 ms  
Remote clock offset: -0.241 ms

# Below is generated by plot.py at 2019-03-08 23:26:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 77.75 Mbit/s  
95th percentile per-packet one-way delay: 5.557 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 77.75 Mbit/s  
95th percentile per-packet one-way delay: 5.557 ms  
Loss rate: 0.39%

Run 3: Report of QUIC Cubic — Data Link





Run 4: Statistics of QUIC Cubic

Start at: 2019-03-08 22:30:08

End at: 2019-03-08 22:30:38

Local clock offset: -5.971 ms

Remote clock offset: -0.124 ms

# Below is generated by plot.py at 2019-03-08 23:26:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 77.58 Mbit/s

95th percentile per-packet one-way delay: 6.183 ms

Loss rate: 0.31%

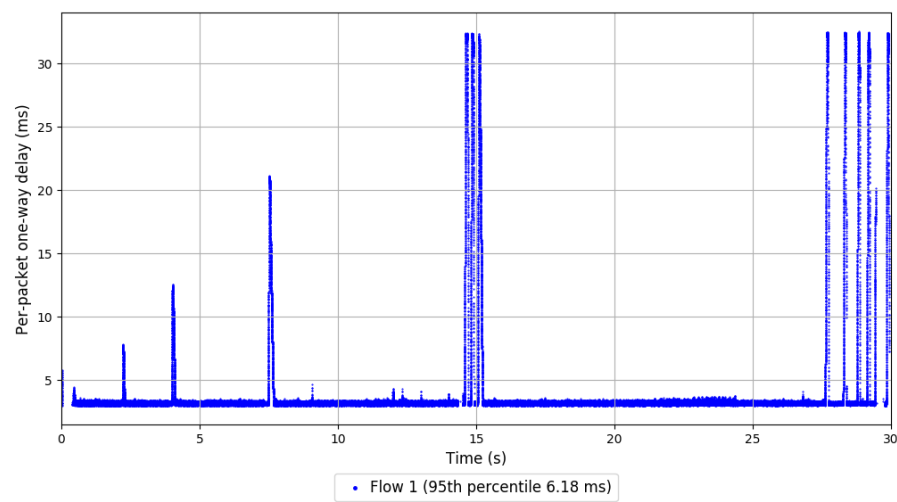
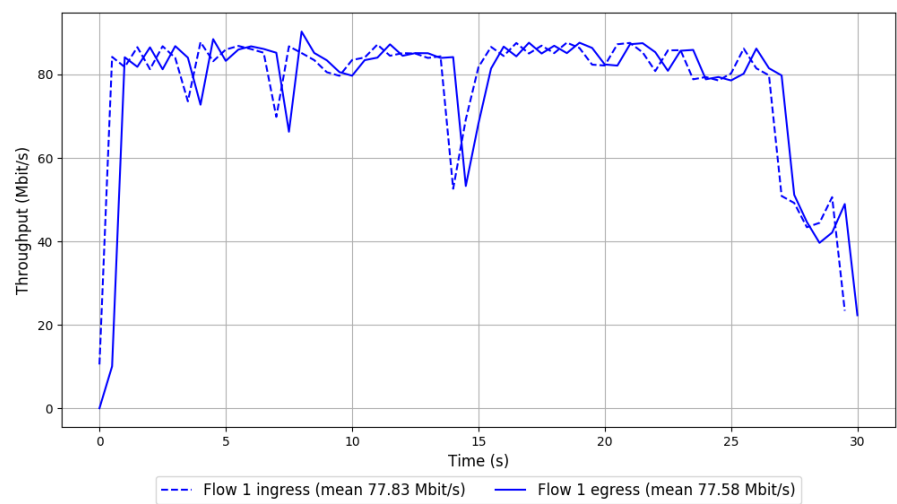
-- Flow 1:

Average throughput: 77.58 Mbit/s

95th percentile per-packet one-way delay: 6.183 ms

Loss rate: 0.31%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-03-08 22:53:34

End at: 2019-03-08 22:54:04

Local clock offset: -5.717 ms

Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2019-03-08 23:27:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.02 Mbit/s

95th percentile per-packet one-way delay: 5.345 ms

Loss rate: 0.33%

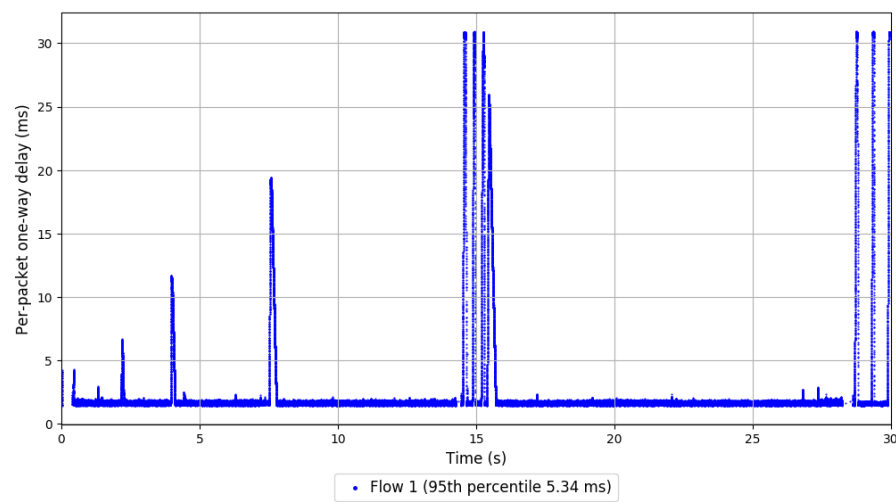
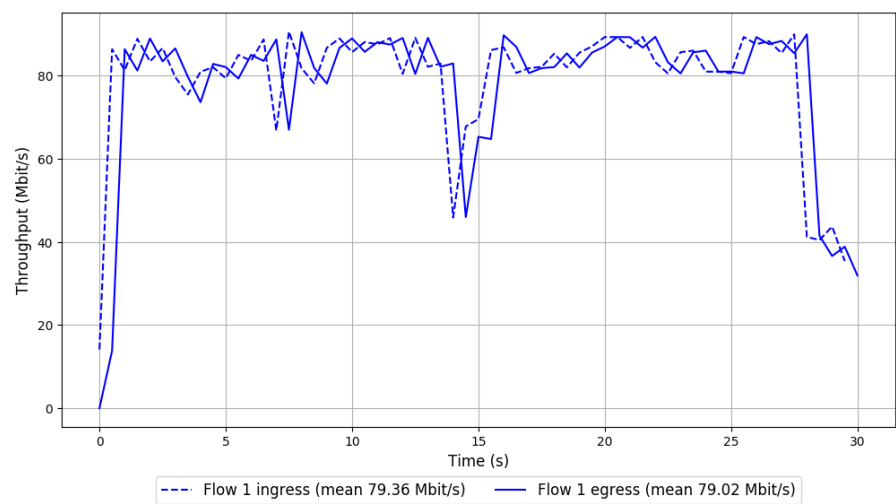
-- Flow 1:

Average throughput: 79.02 Mbit/s

95th percentile per-packet one-way delay: 5.345 ms

Loss rate: 0.33%

Run 5: Report of QUIC Cubic — Data Link

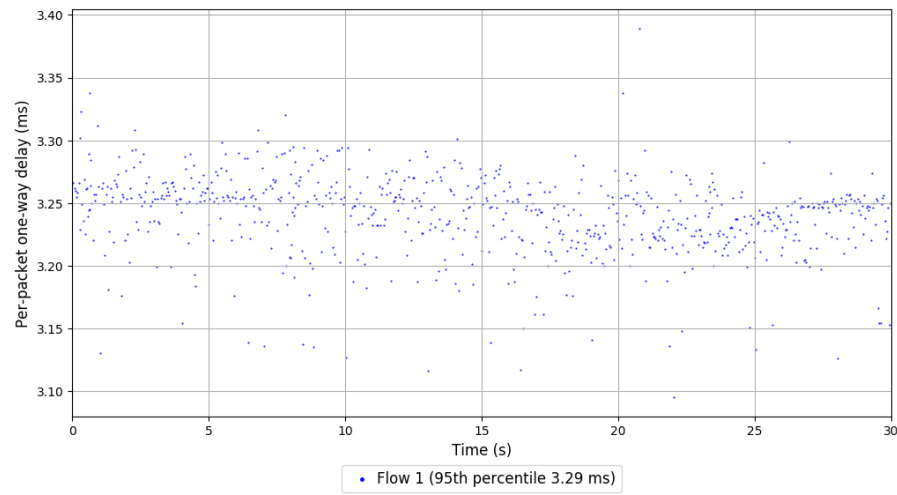
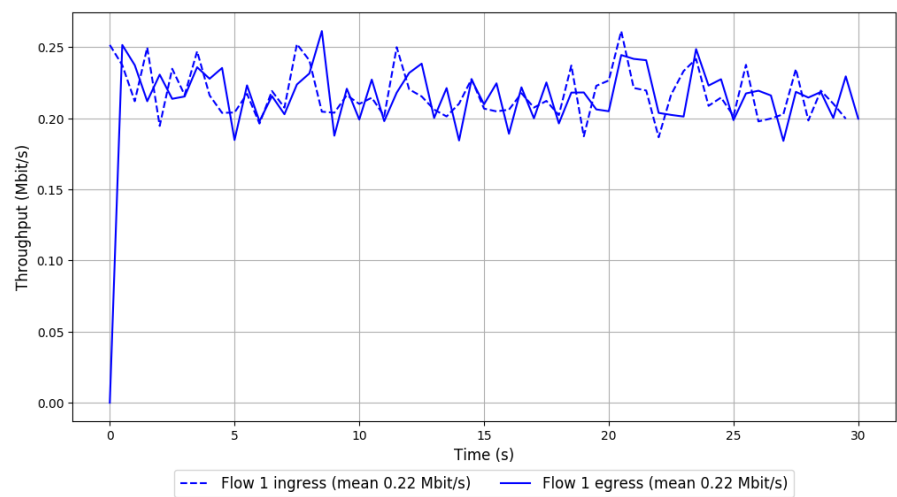


Run 1: Statistics of SCReAM

Start at: 2019-03-08 21:42:10  
End at: 2019-03-08 21:42:40  
Local clock offset: -6.171 ms  
Remote clock offset: -0.202 ms

# Below is generated by plot.py at 2019-03-08 23:27:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 3.287 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 3.287 ms  
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

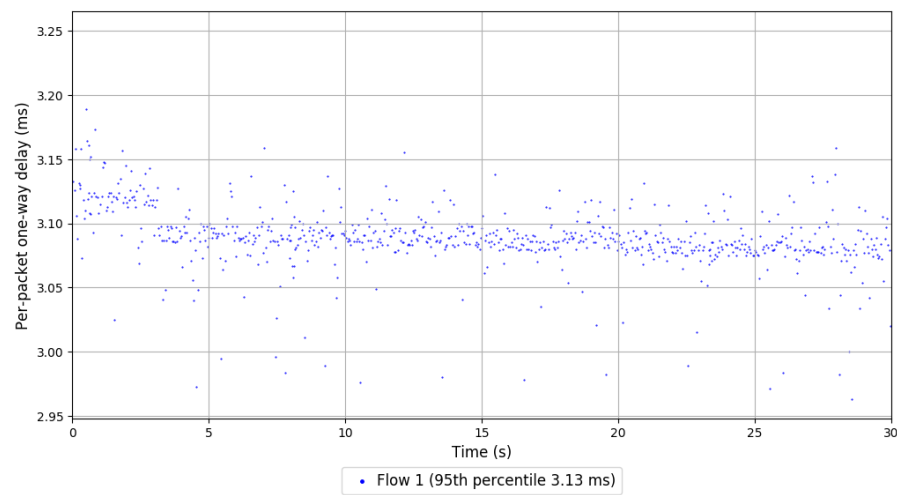
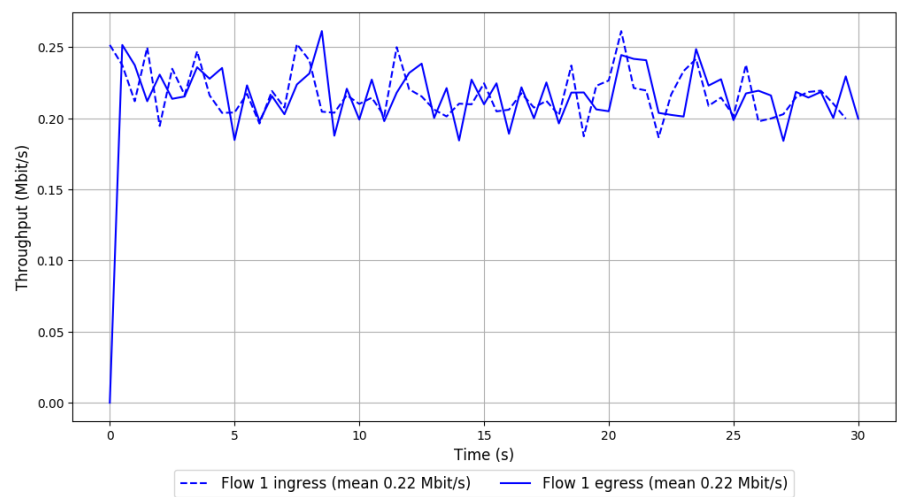


Run 2: Statistics of SCReAM

Start at: 2019-03-08 22:05:37  
End at: 2019-03-08 22:06:07  
Local clock offset: -7.286 ms  
Remote clock offset: -0.232 ms

# Below is generated by plot.py at 2019-03-08 23:27:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 3.127 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 3.127 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



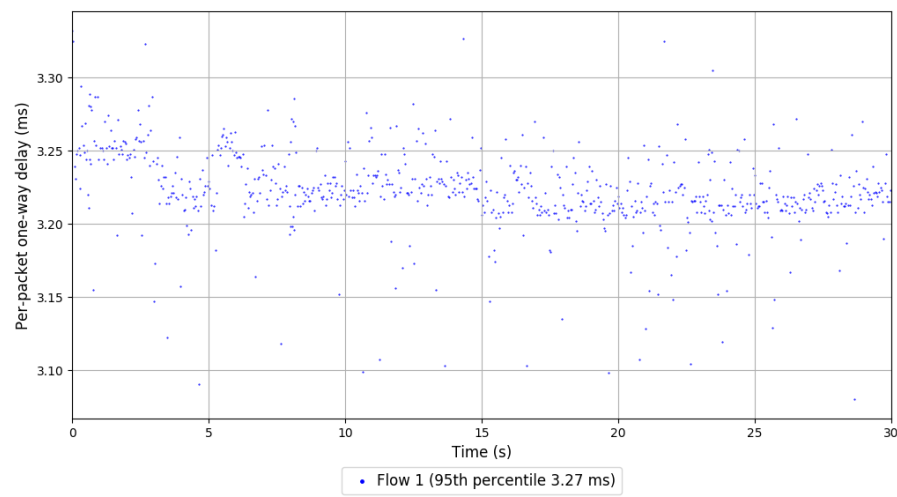
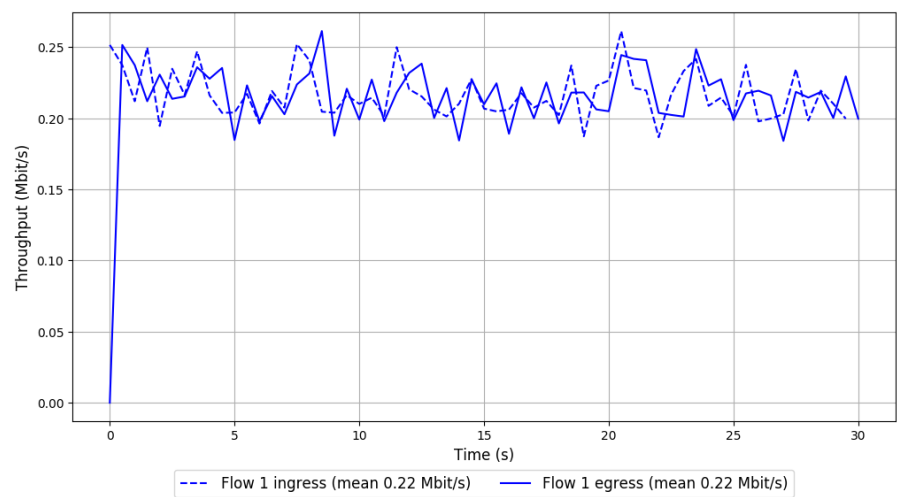


Run 3: Statistics of SCReAM

Start at: 2019-03-08 22:29:04  
End at: 2019-03-08 22:29:34  
Local clock offset: -6.076 ms  
Remote clock offset: -0.132 ms

# Below is generated by plot.py at 2019-03-08 23:27:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 3.265 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 3.265 ms  
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

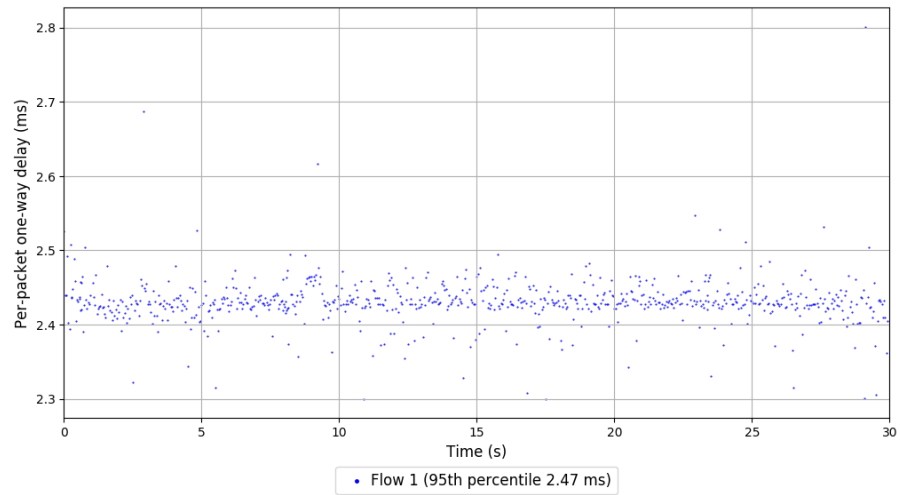
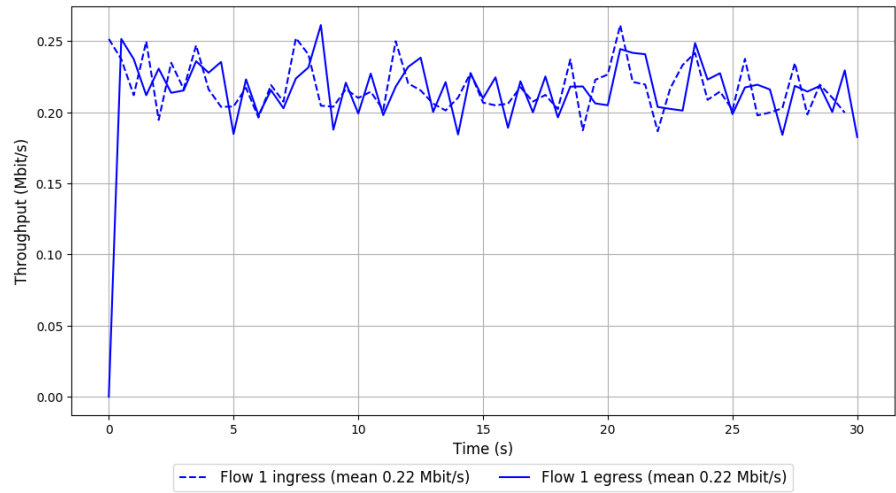


Run 4: Statistics of SCReAM

Start at: 2019-03-08 22:52:30  
End at: 2019-03-08 22:53:00  
Local clock offset: -5.033 ms  
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-03-08 23:27:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.467 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.467 ms  
Loss rate: 0.13%

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

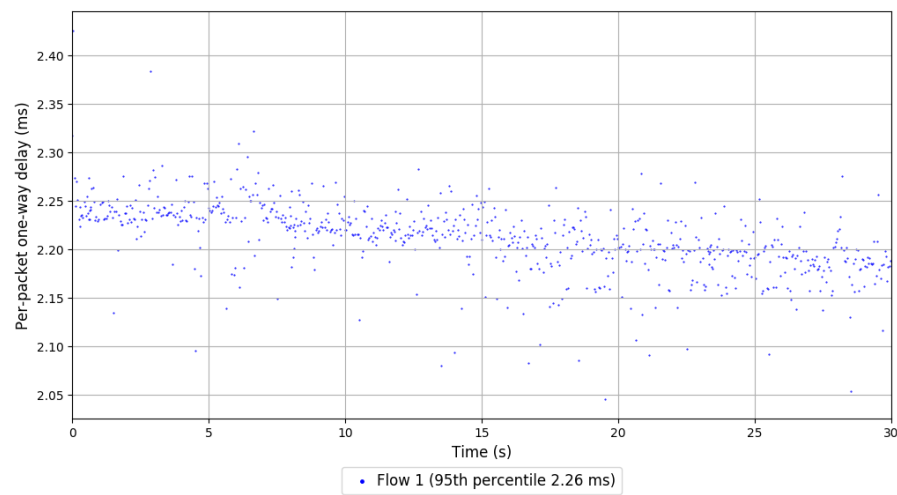
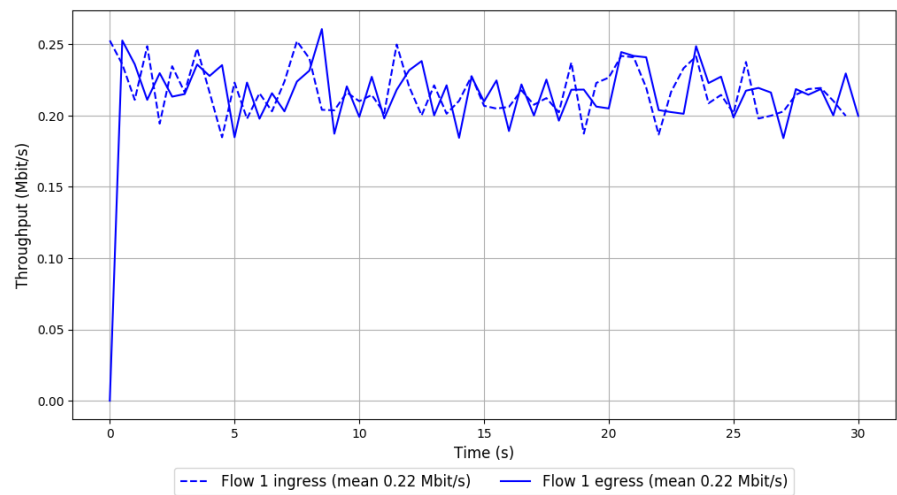


Run 5: Statistics of SCReAM

Start at: 2019-03-08 23:15:58  
End at: 2019-03-08 23:16:28  
Local clock offset: -5.154 ms  
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2019-03-08 23:27:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.263 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.263 ms  
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

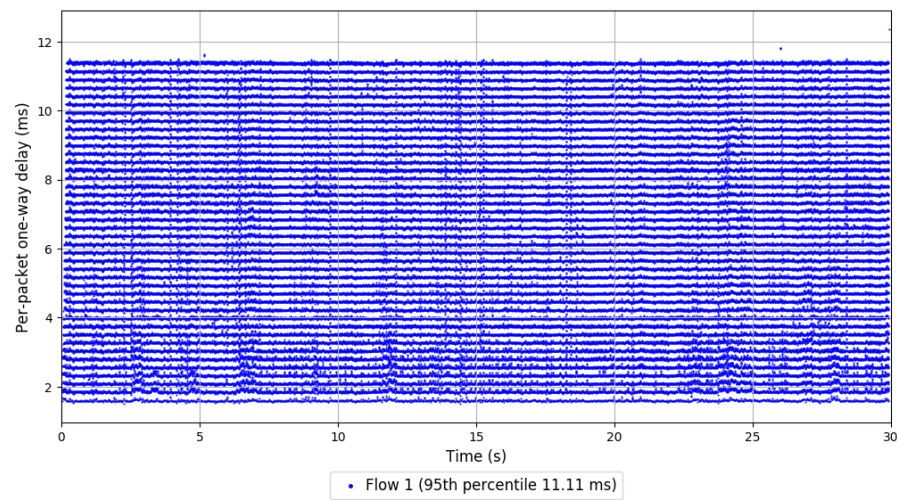
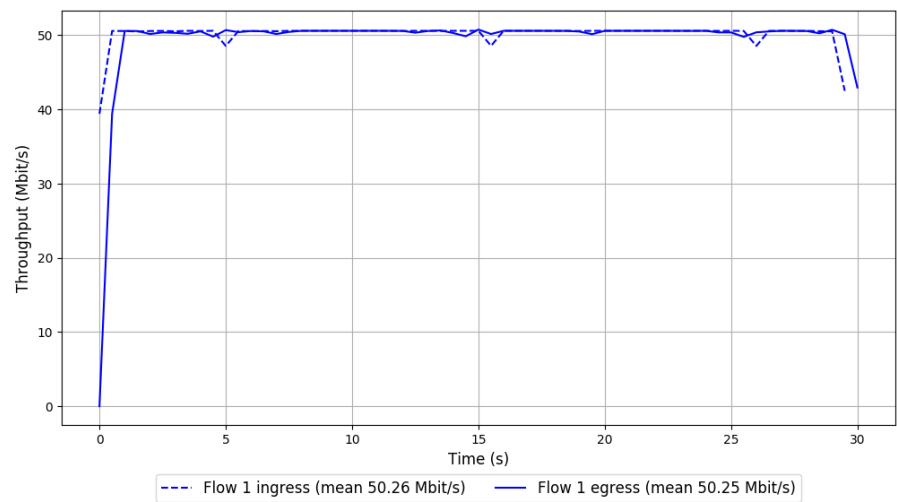


Run 1: Statistics of Sprout

Start at: 2019-03-08 21:29:53  
End at: 2019-03-08 21:30:23  
Local clock offset: -6.158 ms  
Remote clock offset: -0.284 ms

# Below is generated by plot.py at 2019-03-08 23:27:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 50.25 Mbit/s  
95th percentile per-packet one-way delay: 11.112 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 50.25 Mbit/s  
95th percentile per-packet one-way delay: 11.112 ms  
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



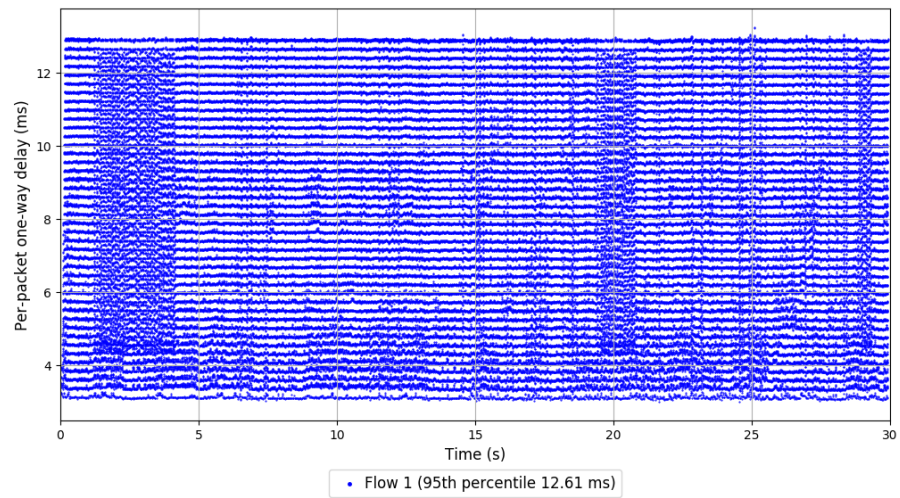
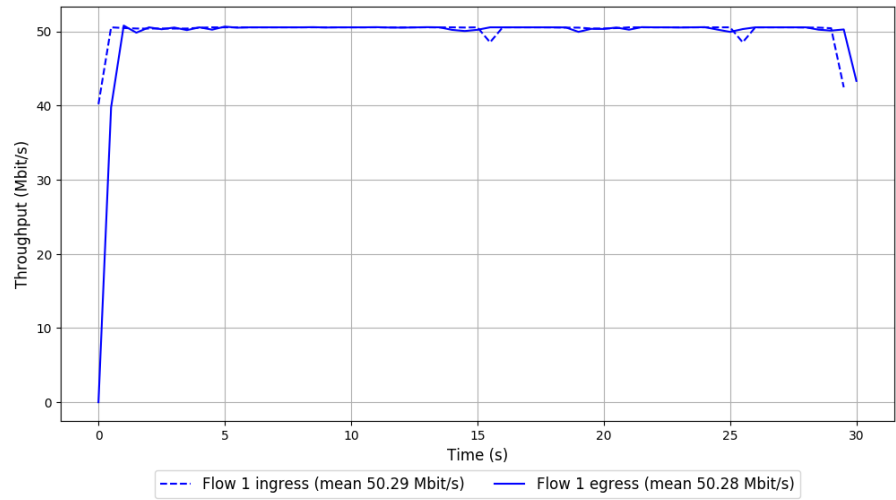


Run 2: Statistics of Sprout

Start at: 2019-03-08 21:53:20  
End at: 2019-03-08 21:53:50  
Local clock offset: -6.87 ms  
Remote clock offset: -0.169 ms

# Below is generated by plot.py at 2019-03-08 23:27:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 50.28 Mbit/s  
95th percentile per-packet one-way delay: 12.608 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 50.28 Mbit/s  
95th percentile per-packet one-way delay: 12.608 ms  
Loss rate: 0.00%

## Run 2: Report of Sprout — Data Link

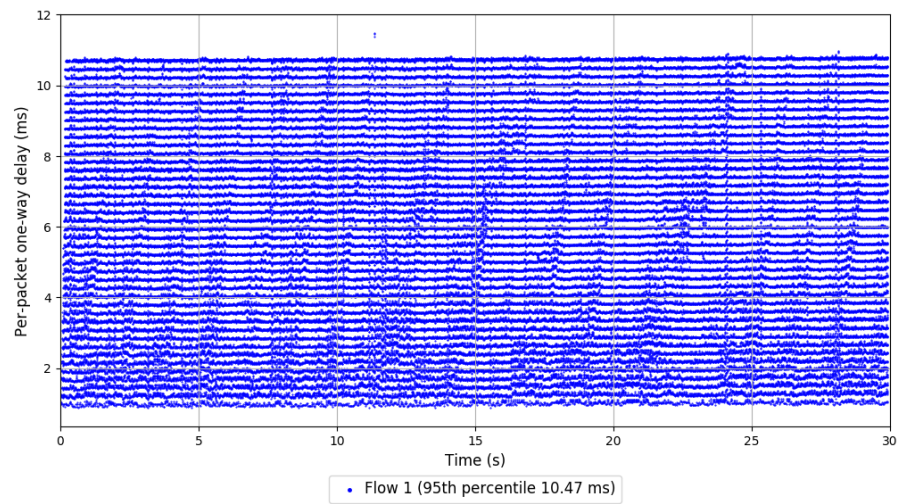
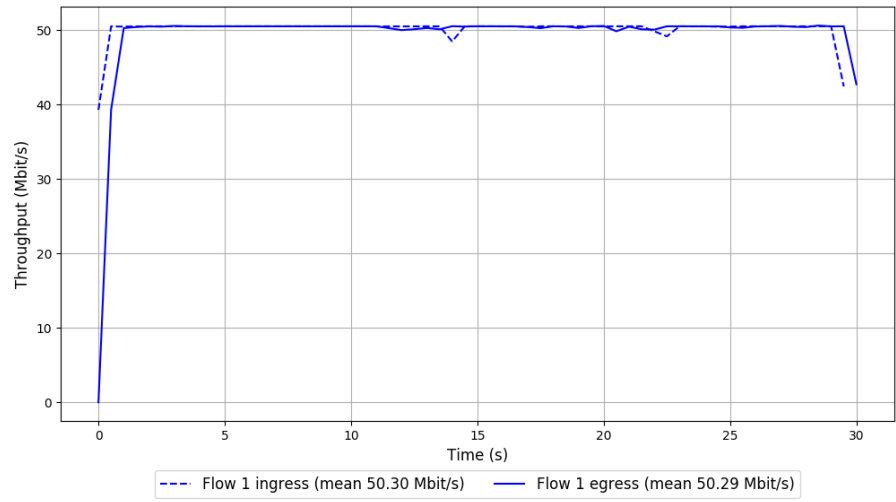


Run 3: Statistics of Sprout

Start at: 2019-03-08 22:16:47  
End at: 2019-03-08 22:17:17  
Local clock offset: -6.265 ms  
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2019-03-08 23:27:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 50.29 Mbit/s  
95th percentile per-packet one-way delay: 10.474 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 50.29 Mbit/s  
95th percentile per-packet one-way delay: 10.474 ms  
Loss rate: 0.00%

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

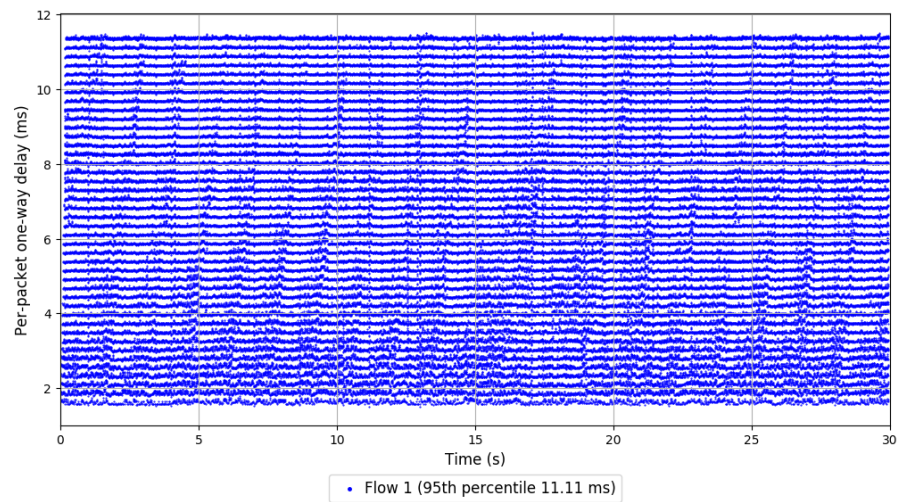
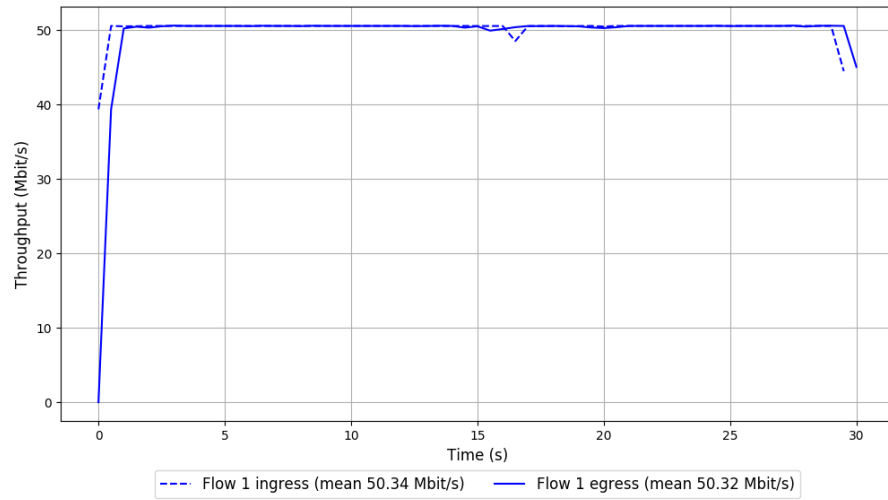


Run 4: Statistics of Sprout

Start at: 2019-03-08 22:40:13  
End at: 2019-03-08 22:40:43  
Local clock offset: -5.703 ms  
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2019-03-08 23:27:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 50.32 Mbit/s  
95th percentile per-packet one-way delay: 11.107 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 50.32 Mbit/s  
95th percentile per-packet one-way delay: 11.107 ms  
Loss rate: 0.00%

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



Run 5: Statistics of Sprout

Start at: 2019-03-08 23:03:39

End at: 2019-03-08 23:04:09

Local clock offset: -5.024 ms

Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2019-03-08 23:27:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.21 Mbit/s

95th percentile per-packet one-way delay: 10.408 ms

Loss rate: 0.00%

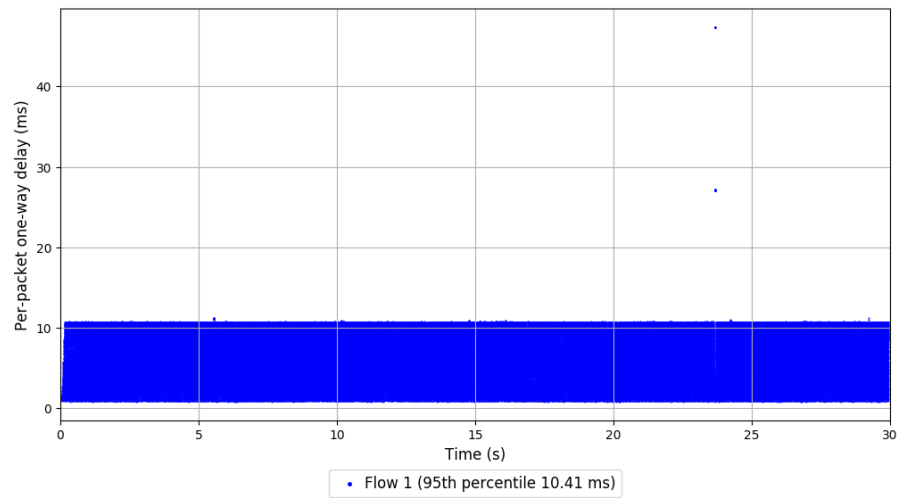
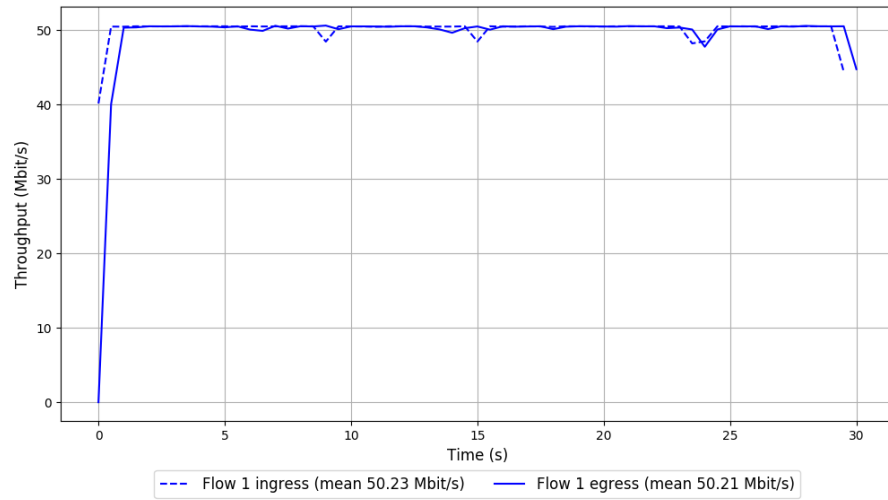
-- Flow 1:

Average throughput: 50.21 Mbit/s

95th percentile per-packet one-way delay: 10.408 ms

Loss rate: 0.00%

## Run 5: Report of Sprout — Data Link





Run 1: Statistics of TaoVA-100x

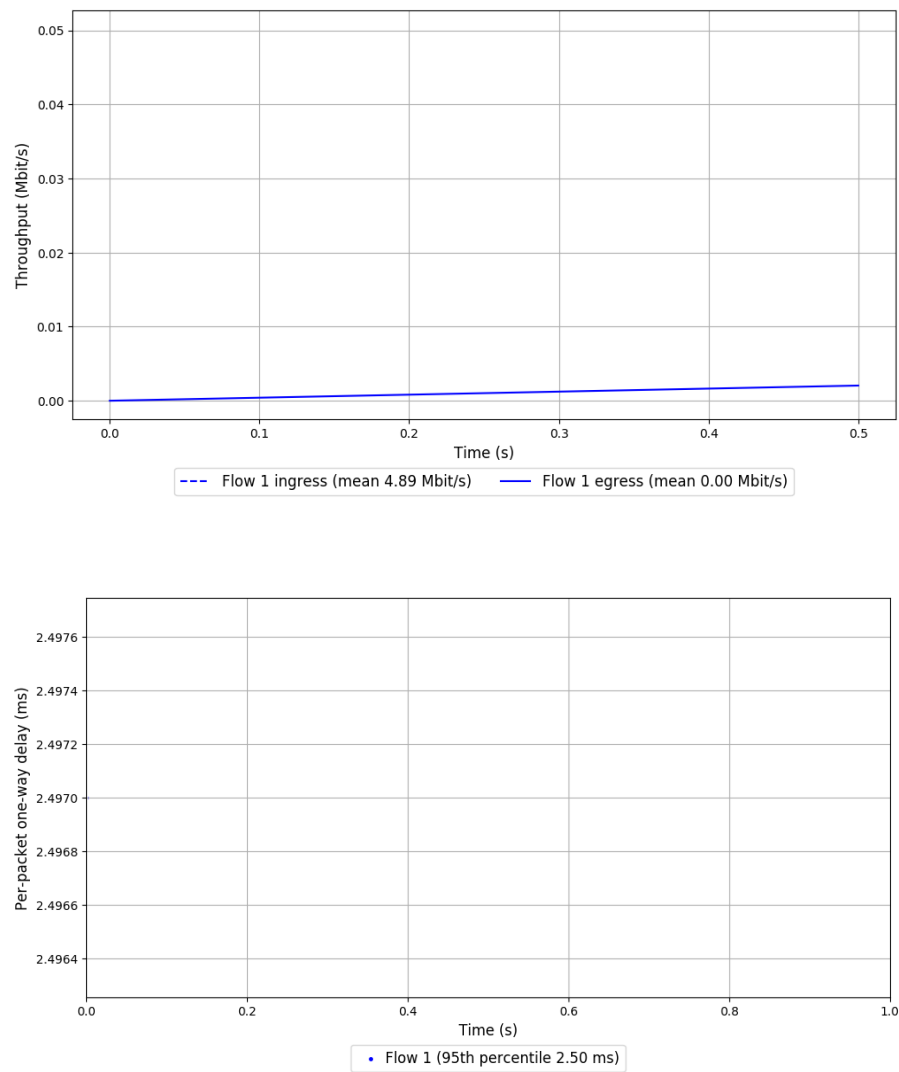
Start at: 2019-03-08 21:20:57

End at: 2019-03-08 21:21:27

Local clock offset: -5.574 ms

Remote clock offset: -0.326 ms

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

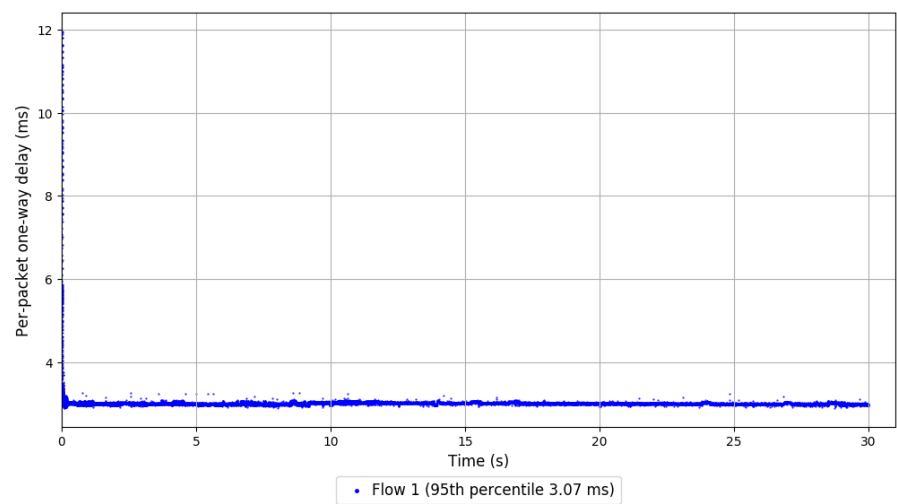
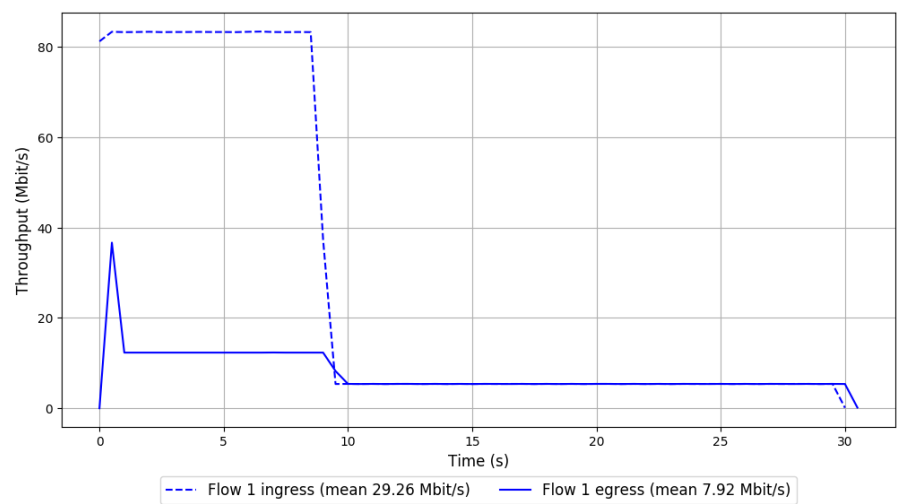


Run 2: Statistics of TaoVA-100x

Start at: 2019-03-08 21:44:22  
End at: 2019-03-08 21:44:52  
Local clock offset: -6.113 ms  
Remote clock offset: -0.285 ms

# Below is generated by plot.py at 2019-03-08 23:27:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.92 Mbit/s  
95th percentile per-packet one-way delay: 3.068 ms  
Loss rate: 72.95%  
-- Flow 1:  
Average throughput: 7.92 Mbit/s  
95th percentile per-packet one-way delay: 3.068 ms  
Loss rate: 72.95%

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

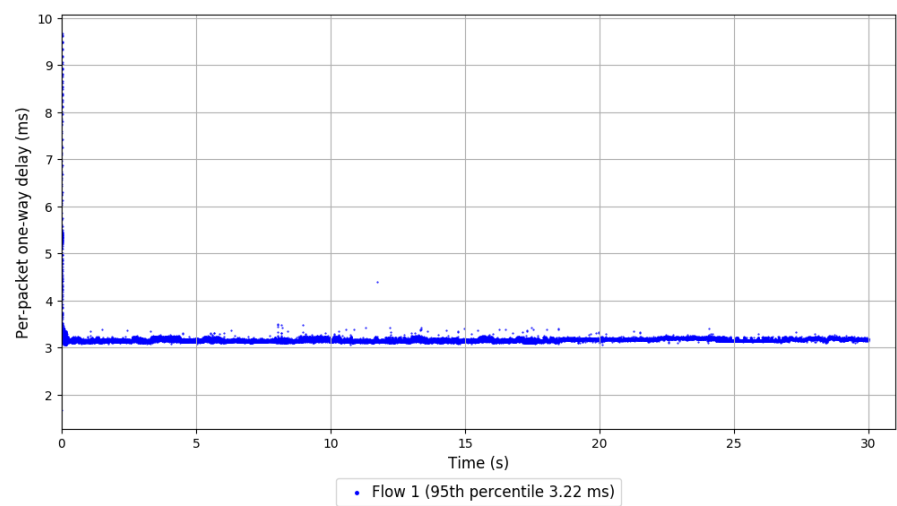
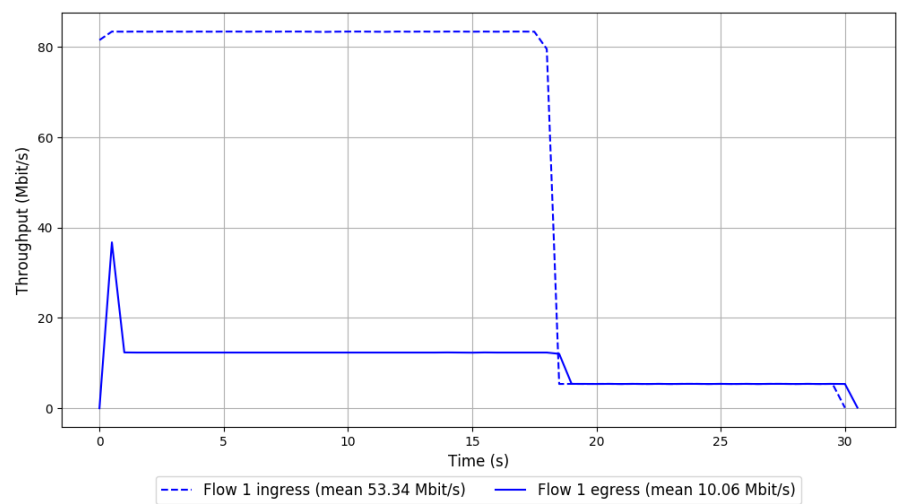


Run 3: Statistics of TaoVA-100x

Start at: 2019-03-08 22:07:49  
End at: 2019-03-08 22:08:19  
Local clock offset: -7.394 ms  
Remote clock offset: -0.192 ms

# Below is generated by plot.py at 2019-03-08 23:27:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 10.06 Mbit/s  
95th percentile per-packet one-way delay: 3.223 ms  
Loss rate: 81.13%  
-- Flow 1:  
Average throughput: 10.06 Mbit/s  
95th percentile per-packet one-way delay: 3.223 ms  
Loss rate: 81.13%

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

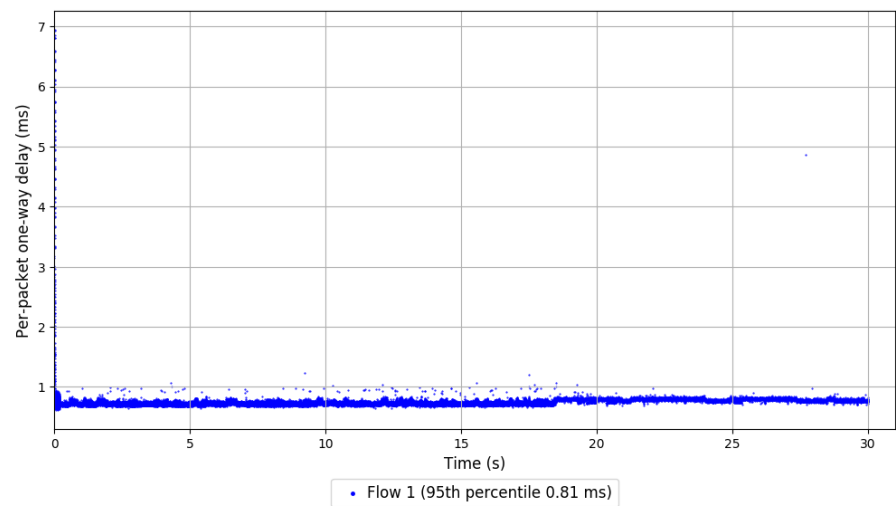
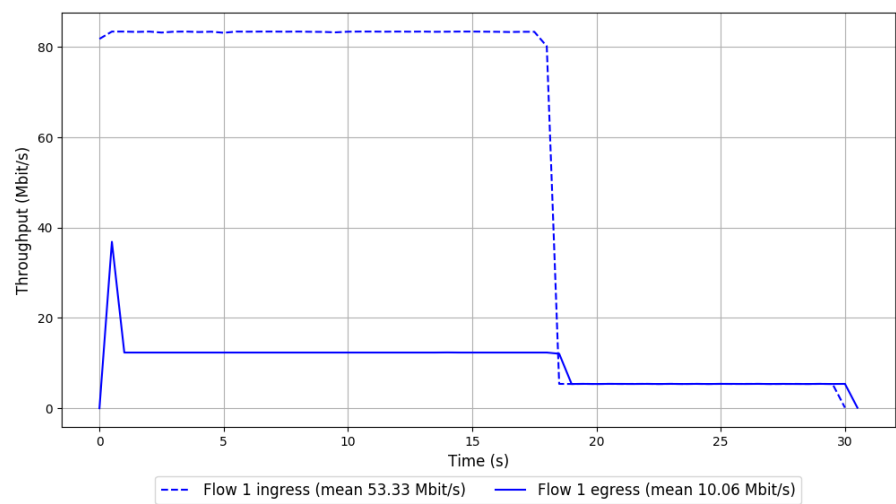


Run 4: Statistics of TaoVA-100x

Start at: 2019-03-08 22:31:16  
End at: 2019-03-08 22:31:46  
Local clock offset: -5.141 ms  
Remote clock offset: -0.223 ms

# Below is generated by plot.py at 2019-03-08 23:27:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 10.06 Mbit/s  
95th percentile per-packet one-way delay: 0.814 ms  
Loss rate: 81.13%  
-- Flow 1:  
Average throughput: 10.06 Mbit/s  
95th percentile per-packet one-way delay: 0.814 ms  
Loss rate: 81.13%

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



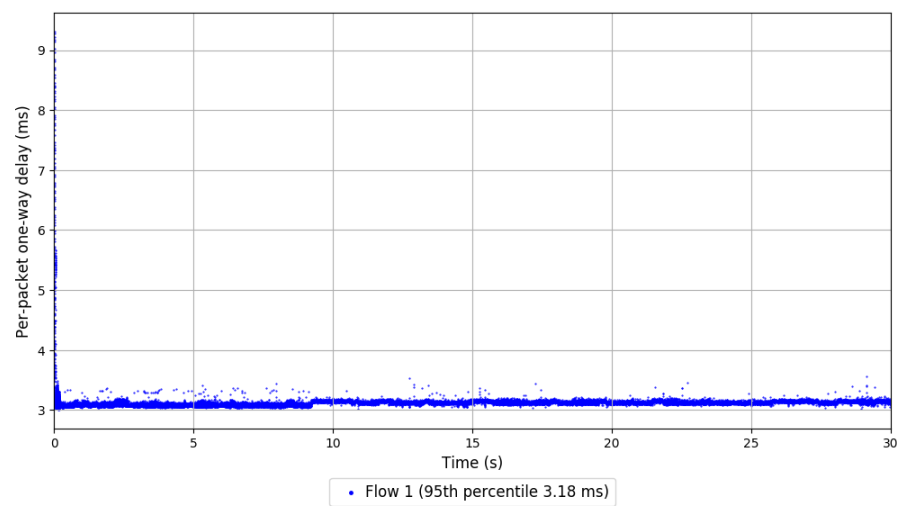
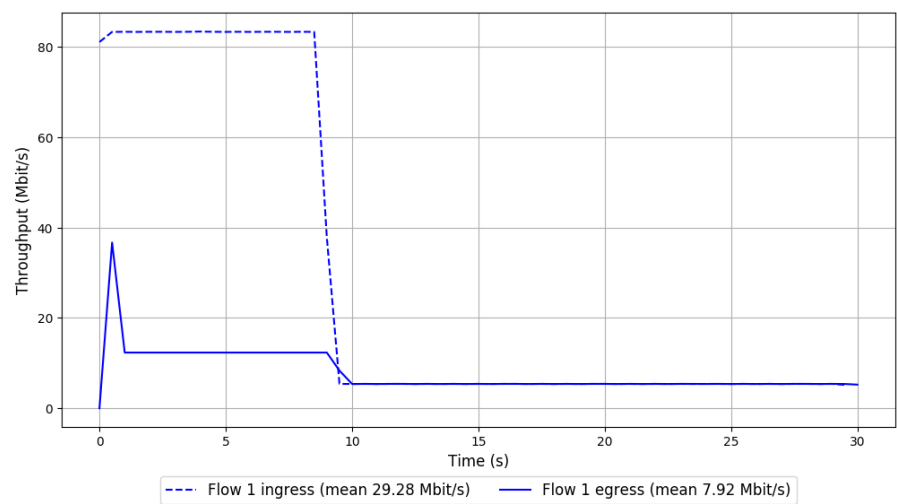


Run 5: Statistics of TaoVA-100x

Start at: 2019-03-08 22:54:42  
End at: 2019-03-08 22:55:12  
Local clock offset: -5.744 ms  
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2019-03-08 23:27:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.92 Mbit/s  
95th percentile per-packet one-way delay: 3.180 ms  
Loss rate: 72.95%  
-- Flow 1:  
Average throughput: 7.92 Mbit/s  
95th percentile per-packet one-way delay: 3.180 ms  
Loss rate: 72.95%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-03-08 21:30:59

End at: 2019-03-08 21:31:29

Local clock offset: -5.409 ms

Remote clock offset: -0.26 ms

# Below is generated by plot.py at 2019-03-08 23:28:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.02 Mbit/s

95th percentile per-packet one-way delay: 2.214 ms

Loss rate: 0.00%

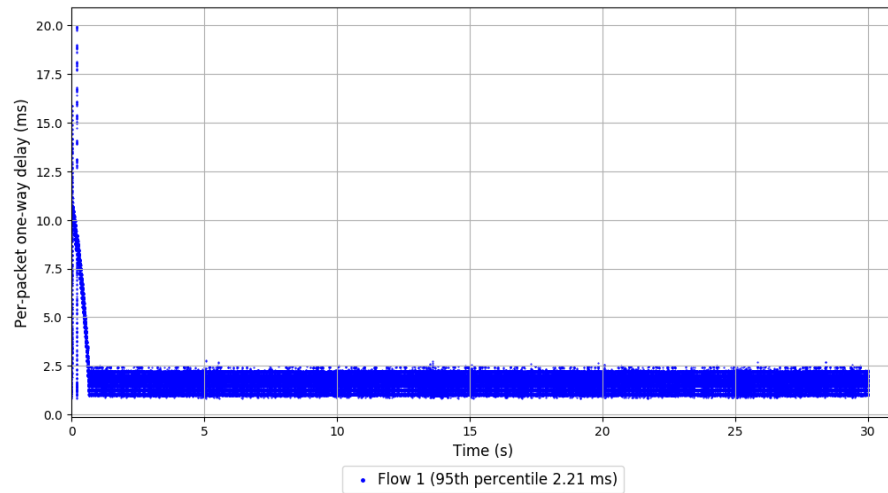
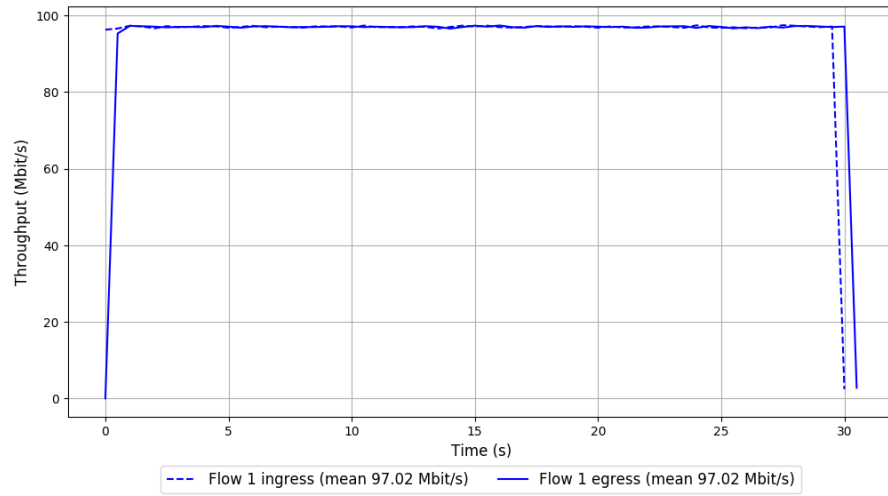
-- Flow 1:

Average throughput: 97.02 Mbit/s

95th percentile per-packet one-way delay: 2.214 ms

Loss rate: 0.00%

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

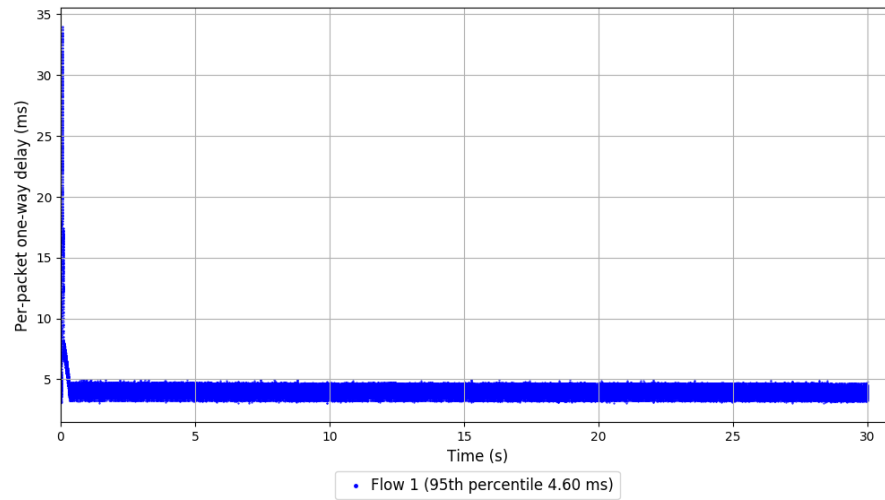
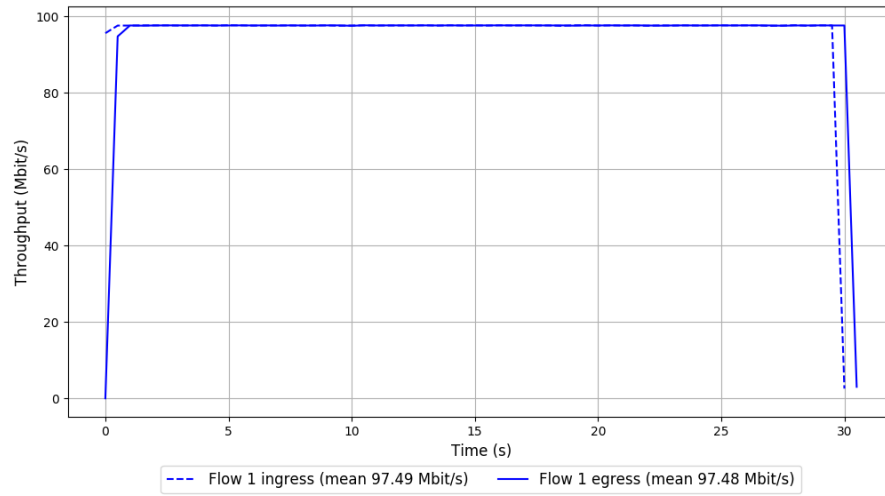


Run 2: Statistics of TCP Vegas

Start at: 2019-03-08 21:54:25  
End at: 2019-03-08 21:54:55  
Local clock offset: -6.906 ms  
Remote clock offset: -0.171 ms

# Below is generated by plot.py at 2019-03-08 23:28:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.48 Mbit/s  
95th percentile per-packet one-way delay: 4.604 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 97.48 Mbit/s  
95th percentile per-packet one-way delay: 4.604 ms  
Loss rate: 0.01%

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

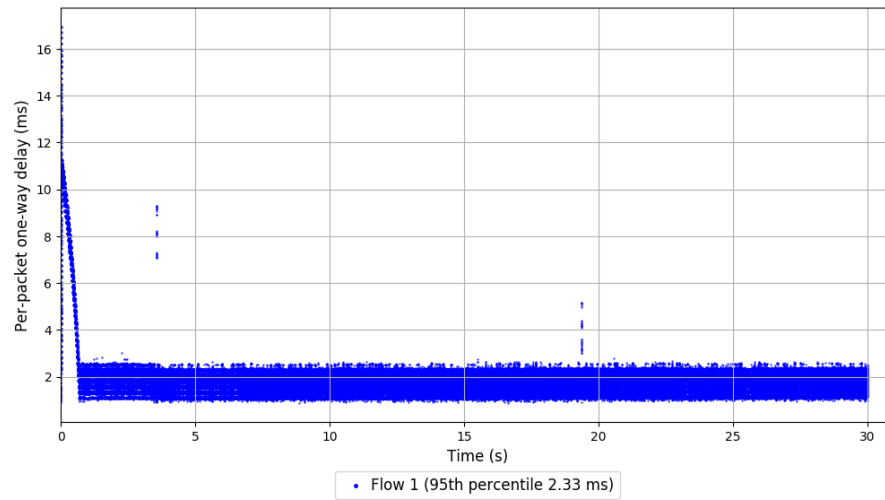
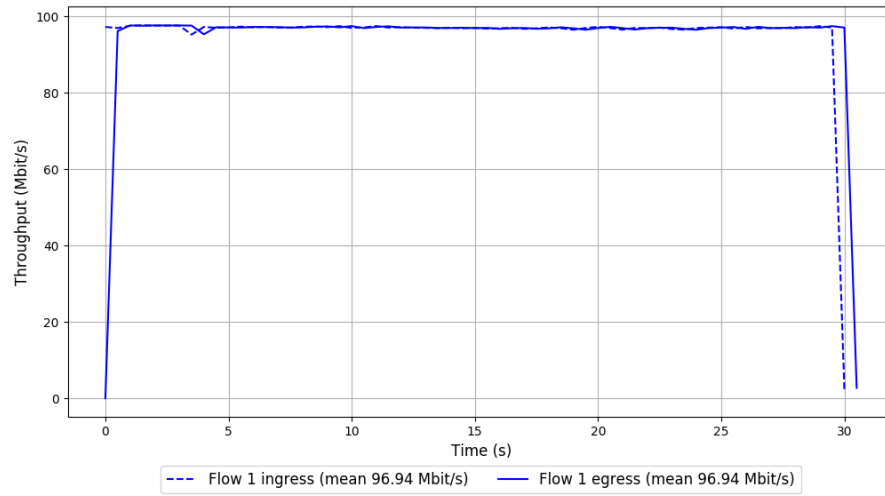


Run 3: Statistics of TCP Vegas

Start at: 2019-03-08 22:17:52  
End at: 2019-03-08 22:18:23  
Local clock offset: -6.146 ms  
Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2019-03-08 23:28:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.94 Mbit/s  
95th percentile per-packet one-way delay: 2.326 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 96.94 Mbit/s  
95th percentile per-packet one-way delay: 2.326 ms  
Loss rate: 0.00%

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



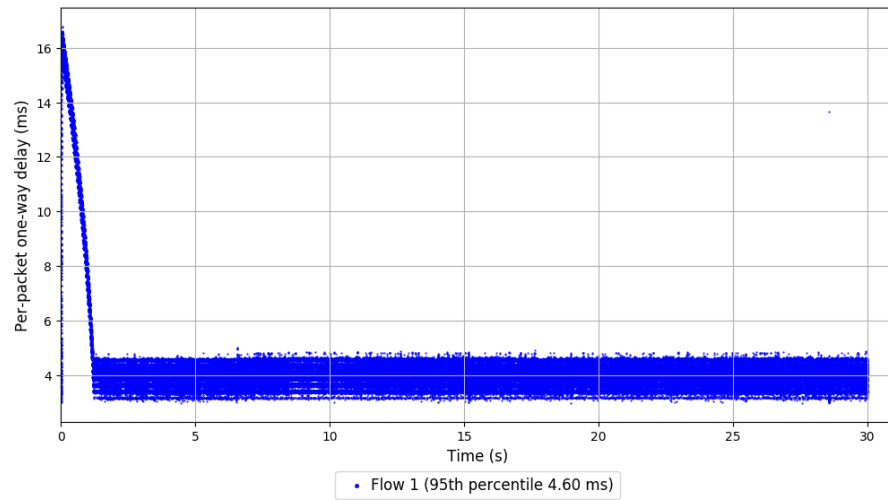
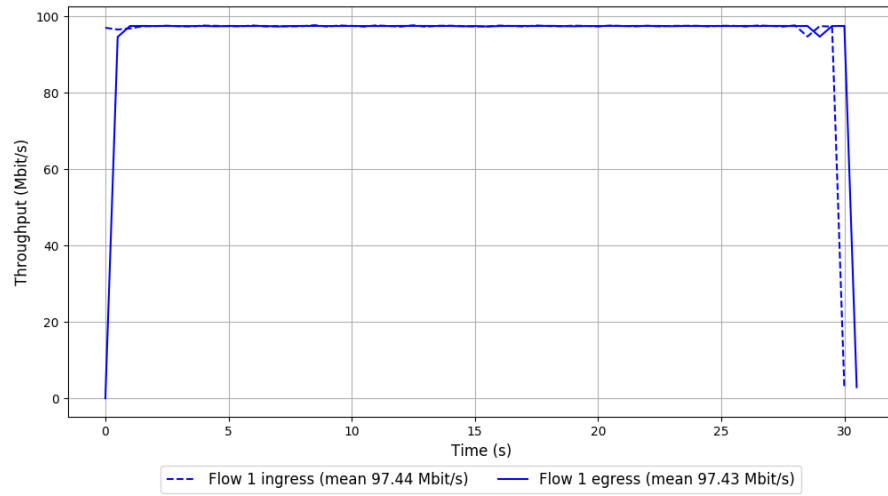


Run 4: Statistics of TCP Vegas

Start at: 2019-03-08 22:41:19  
End at: 2019-03-08 22:41:49  
Local clock offset: -5.673 ms  
Remote clock offset: -0.119 ms

# Below is generated by plot.py at 2019-03-08 23:28:17  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.43 Mbit/s  
95th percentile per-packet one-way delay: 4.602 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 97.43 Mbit/s  
95th percentile per-packet one-way delay: 4.602 ms  
Loss rate: 0.00%

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

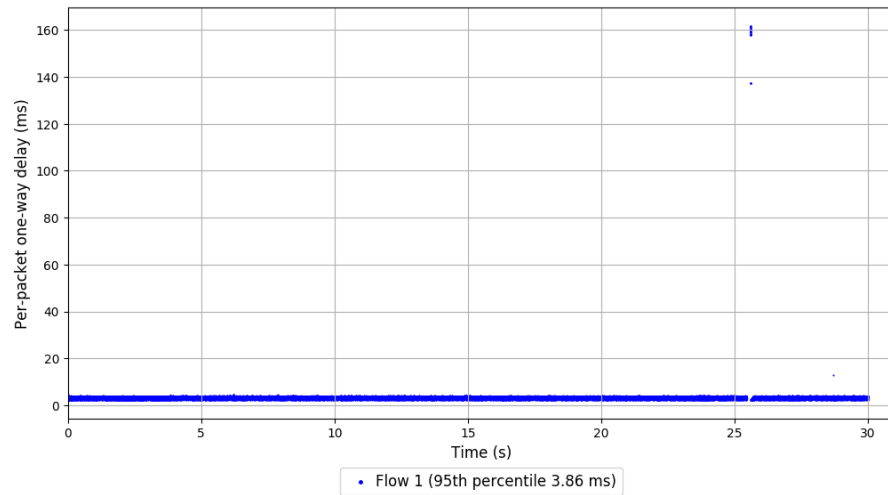
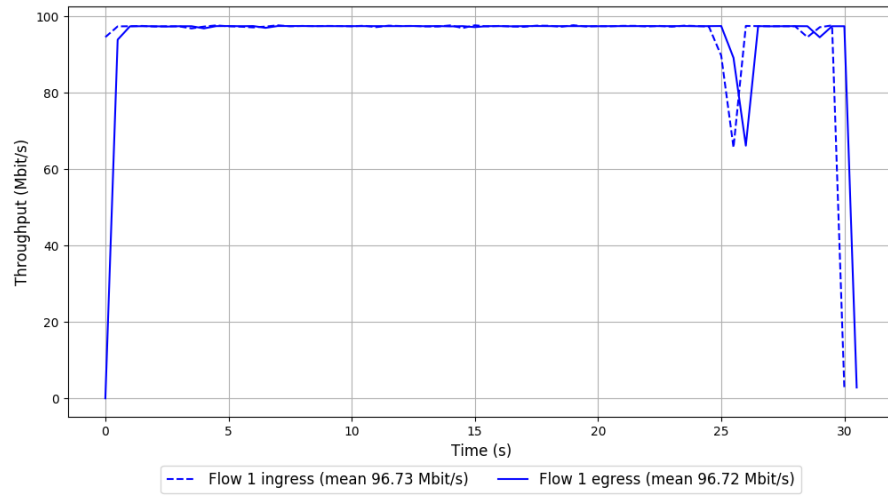


Run 5: Statistics of TCP Vegas

Start at: 2019-03-08 23:04:45  
End at: 2019-03-08 23:05:15  
Local clock offset: -4.968 ms  
Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2019-03-08 23:28:17  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.72 Mbit/s  
95th percentile per-packet one-way delay: 3.860 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 96.72 Mbit/s  
95th percentile per-packet one-way delay: 3.860 ms  
Loss rate: 0.00%

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

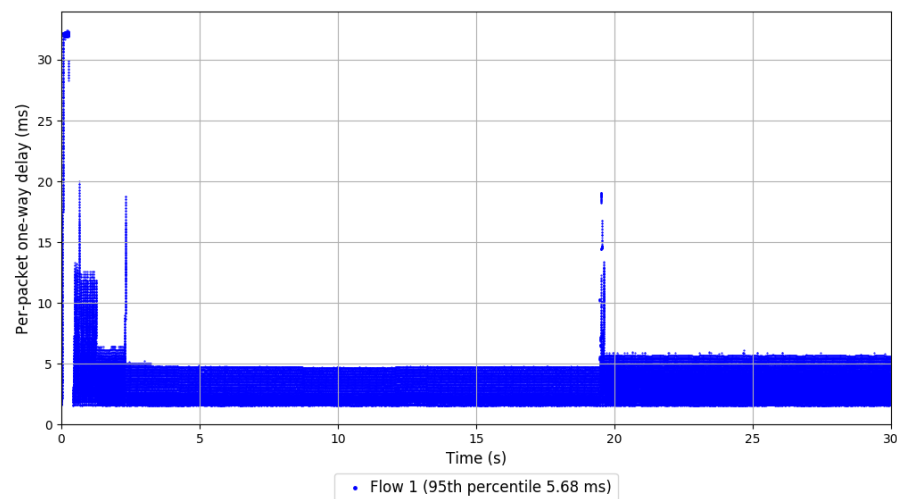
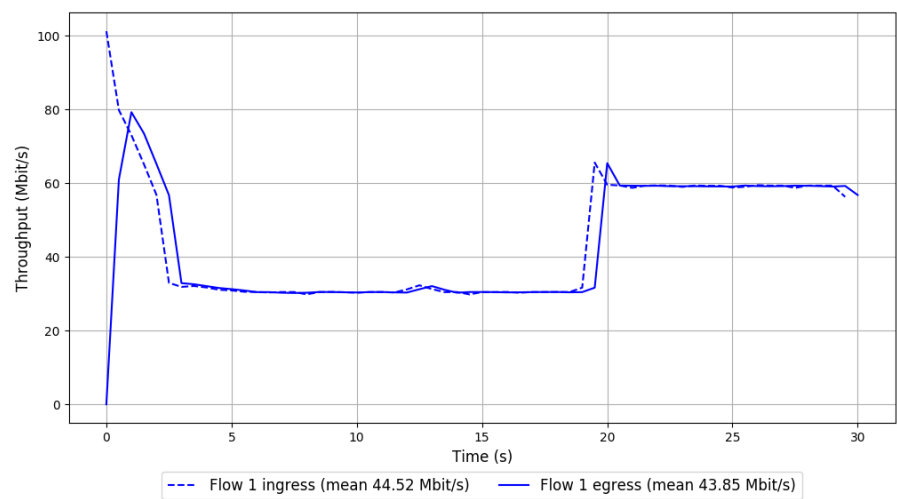


Run 1: Statistics of Verus

Start at: 2019-03-08 21:33:16  
End at: 2019-03-08 21:33:46  
Local clock offset: -6.164 ms  
Remote clock offset: -0.255 ms

# Below is generated by plot.py at 2019-03-08 23:28:17  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 43.85 Mbit/s  
95th percentile per-packet one-way delay: 5.682 ms  
Loss rate: 1.49%  
-- Flow 1:  
Average throughput: 43.85 Mbit/s  
95th percentile per-packet one-way delay: 5.682 ms  
Loss rate: 1.49%

Run 1: Report of Verus — Data Link

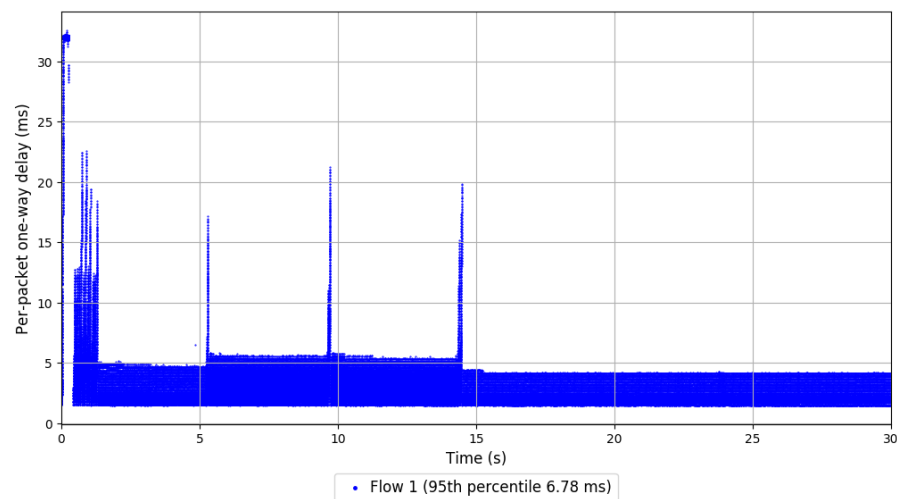
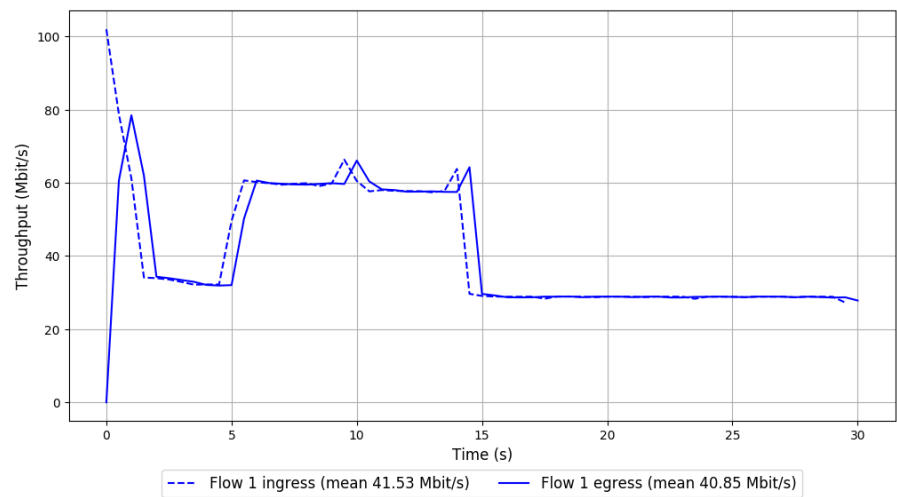


Run 2: Statistics of Verus

Start at: 2019-03-08 21:56:43  
End at: 2019-03-08 21:57:13  
Local clock offset: -7.078 ms  
Remote clock offset: -0.264 ms

# Below is generated by plot.py at 2019-03-08 23:28:17  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 40.85 Mbit/s  
95th percentile per-packet one-way delay: 6.775 ms  
Loss rate: 1.63%  
-- Flow 1:  
Average throughput: 40.85 Mbit/s  
95th percentile per-packet one-way delay: 6.775 ms  
Loss rate: 1.63%

Run 2: Report of Verus — Data Link



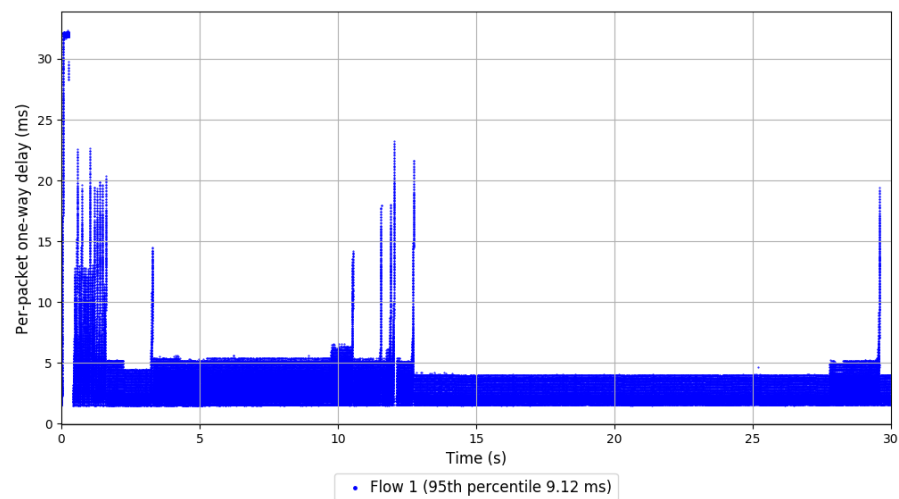
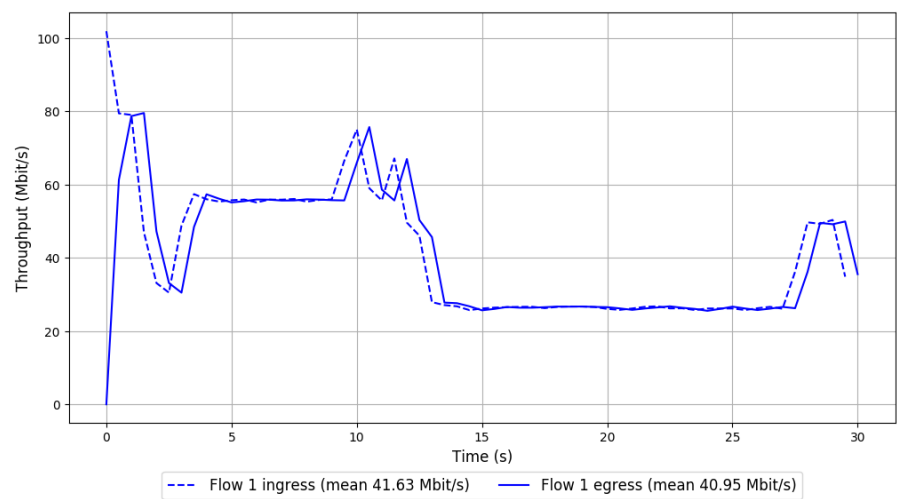


Run 3: Statistics of Verus

Start at: 2019-03-08 22:20:10  
End at: 2019-03-08 22:20:40  
Local clock offset: -6.604 ms  
Remote clock offset: -0.189 ms

# Below is generated by plot.py at 2019-03-08 23:28:17  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 40.95 Mbit/s  
95th percentile per-packet one-way delay: 9.116 ms  
Loss rate: 1.63%  
-- Flow 1:  
Average throughput: 40.95 Mbit/s  
95th percentile per-packet one-way delay: 9.116 ms  
Loss rate: 1.63%

Run 3: Report of Verus — Data Link

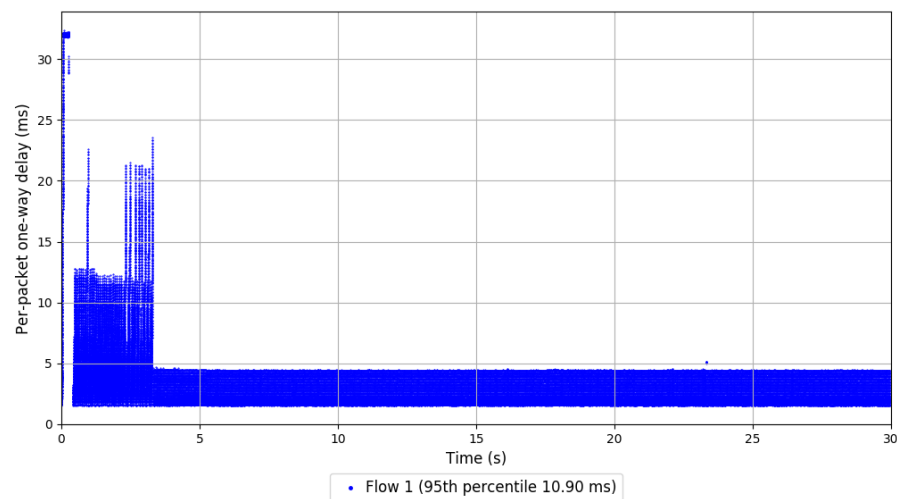
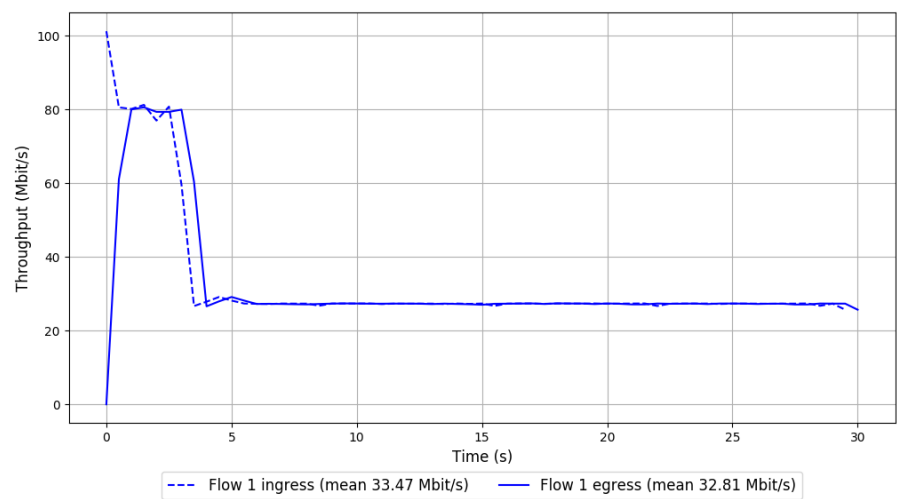


Run 4: Statistics of Verus

Start at: 2019-03-08 22:43:36  
End at: 2019-03-08 22:44:06  
Local clock offset: -5.636 ms  
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2019-03-08 23:28:17  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 32.81 Mbit/s  
95th percentile per-packet one-way delay: 10.900 ms  
Loss rate: 1.98%  
-- Flow 1:  
Average throughput: 32.81 Mbit/s  
95th percentile per-packet one-way delay: 10.900 ms  
Loss rate: 1.98%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-03-08 23:07:02

End at: 2019-03-08 23:07:32

Local clock offset: -4.955 ms

Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2019-03-08 23:28:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 74.63 Mbit/s

95th percentile per-packet one-way delay: 9.215 ms

Loss rate: 0.90%

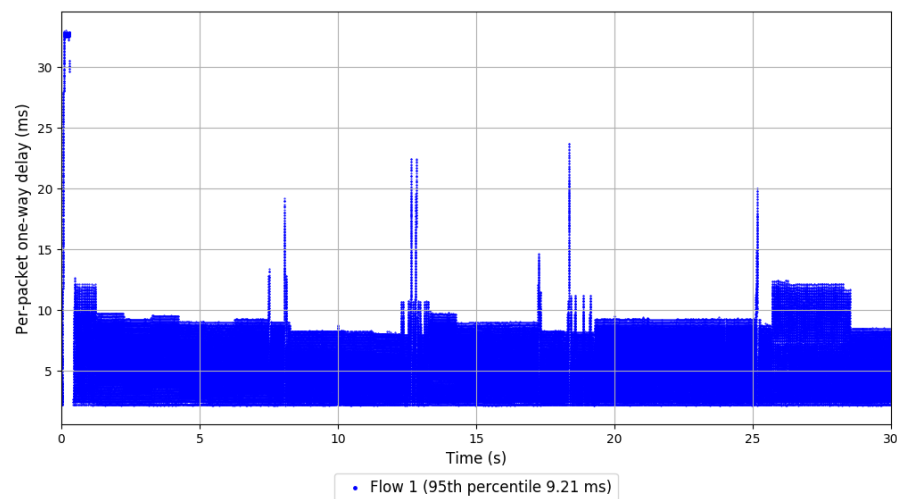
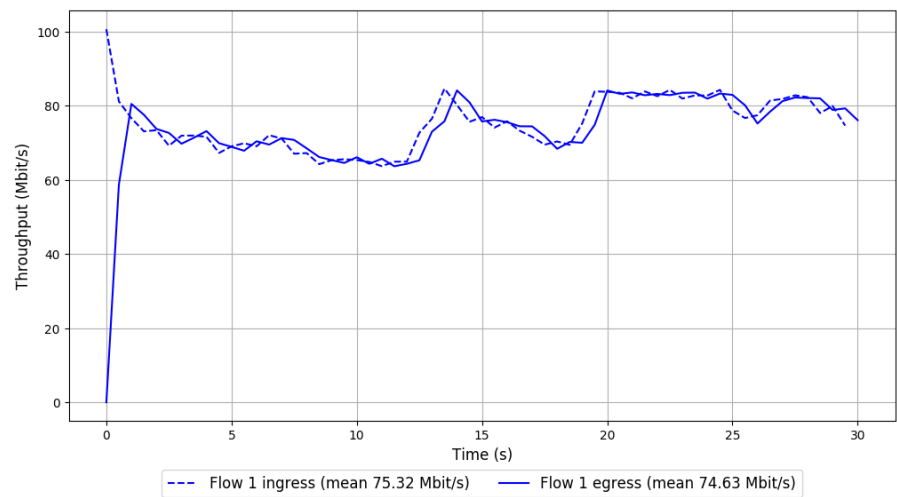
-- Flow 1:

Average throughput: 74.63 Mbit/s

95th percentile per-packet one-way delay: 9.215 ms

Loss rate: 0.90%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-03-08 21:32:07

End at: 2019-03-08 21:32:37

Local clock offset: -5.448 ms

Remote clock offset: -0.23 ms

# Below is generated by plot.py at 2019-03-08 23:28:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.94 Mbit/s

95th percentile per-packet one-way delay: 2.624 ms

Loss rate: 0.00%

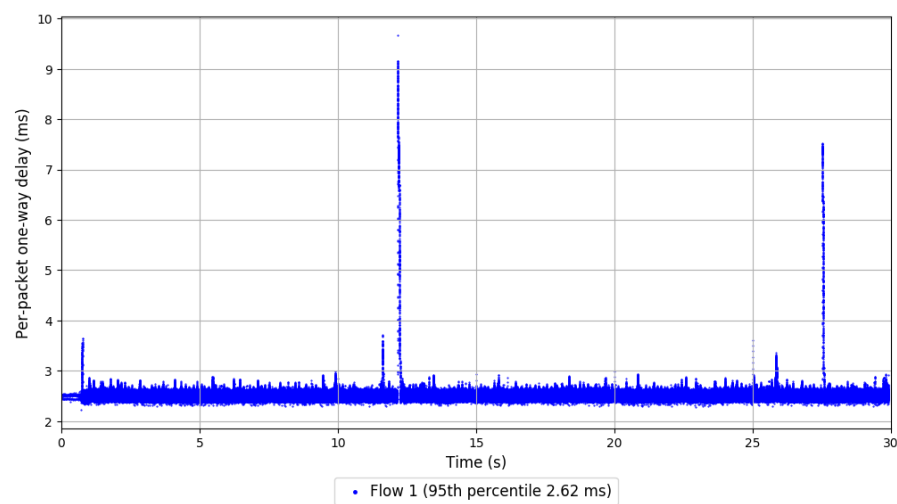
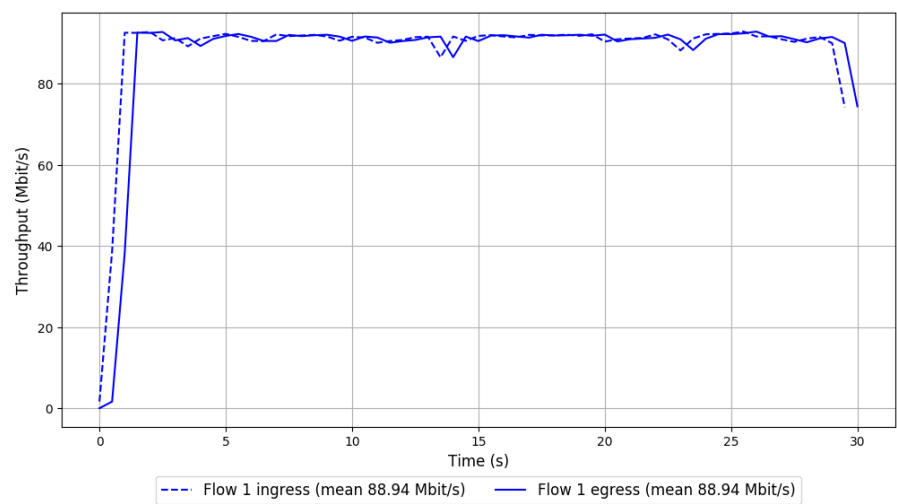
-- Flow 1:

Average throughput: 88.94 Mbit/s

95th percentile per-packet one-way delay: 2.624 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link





Run 2: Statistics of PCC-Vivace

Start at: 2019-03-08 21:55:34

End at: 2019-03-08 21:56:04

Local clock offset: -6.956 ms

Remote clock offset: -0.302 ms

# Below is generated by plot.py at 2019-03-08 23:28:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.06 Mbit/s

95th percentile per-packet one-way delay: 1.691 ms

Loss rate: 0.00%

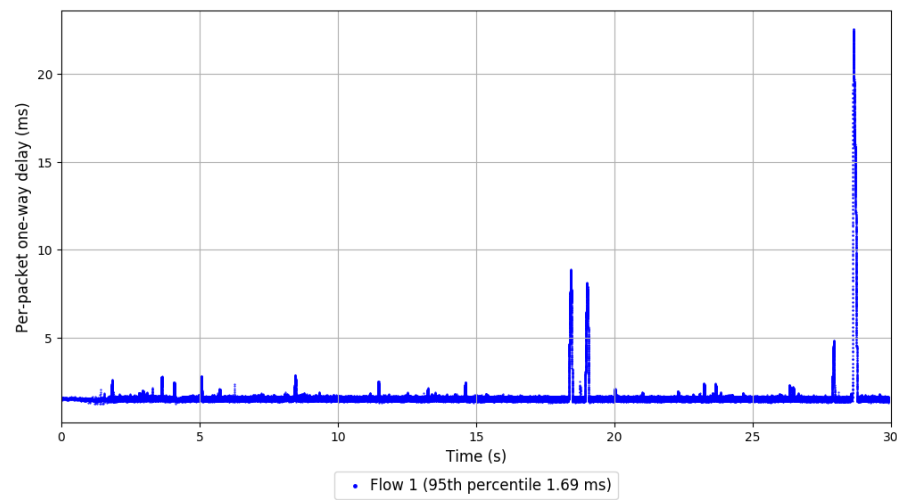
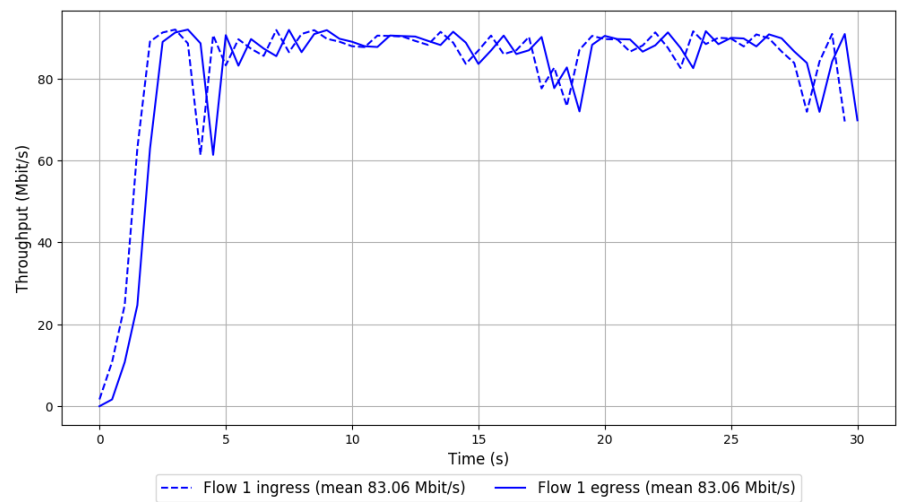
-- Flow 1:

Average throughput: 83.06 Mbit/s

95th percentile per-packet one-way delay: 1.691 ms

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link

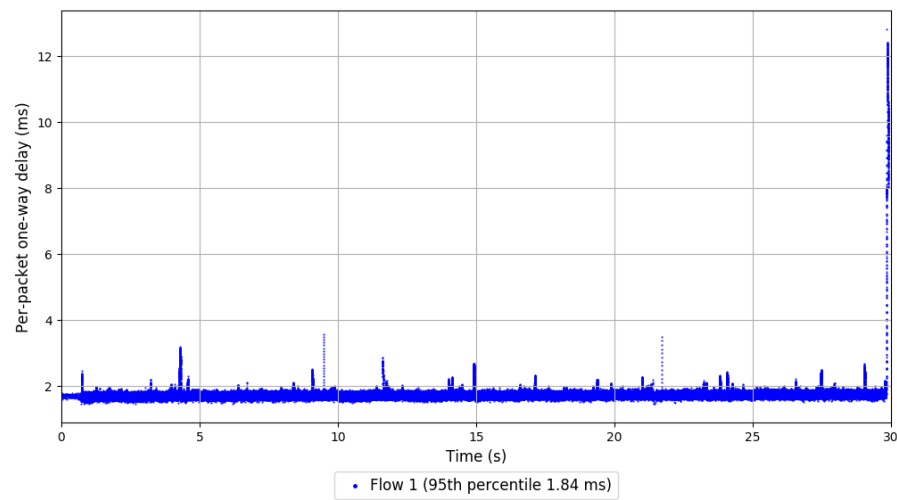
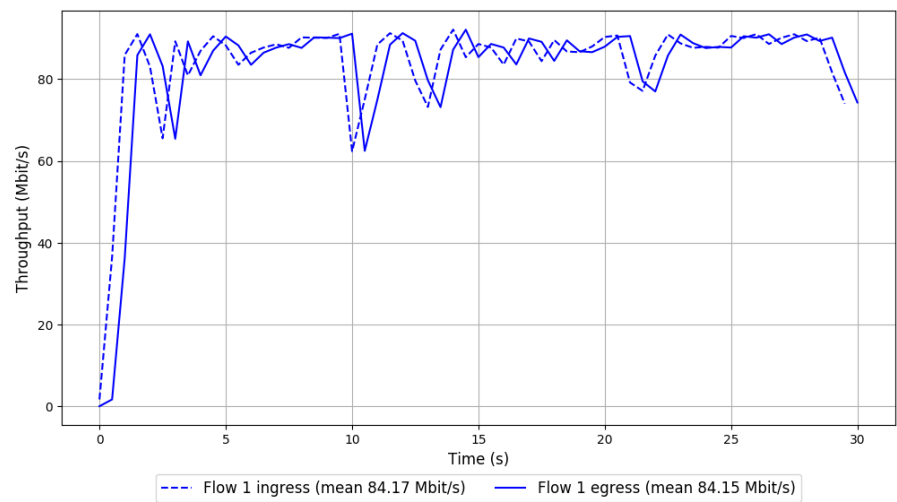


Run 3: Statistics of PCC-Vivace

Start at: 2019-03-08 22:19:01  
End at: 2019-03-08 22:19:31  
Local clock offset: -6.732 ms  
Remote clock offset: -0.149 ms

# Below is generated by plot.py at 2019-03-08 23:28:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 84.15 Mbit/s  
95th percentile per-packet one-way delay: 1.840 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 84.15 Mbit/s  
95th percentile per-packet one-way delay: 1.840 ms  
Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link

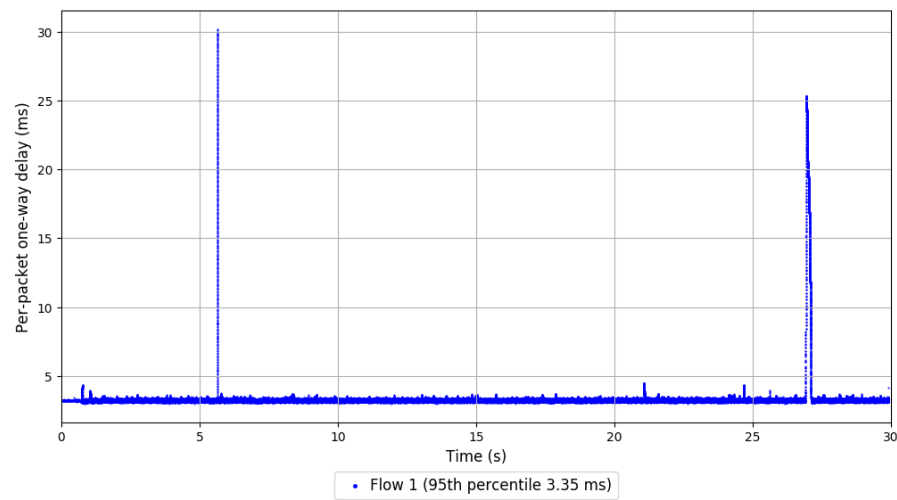
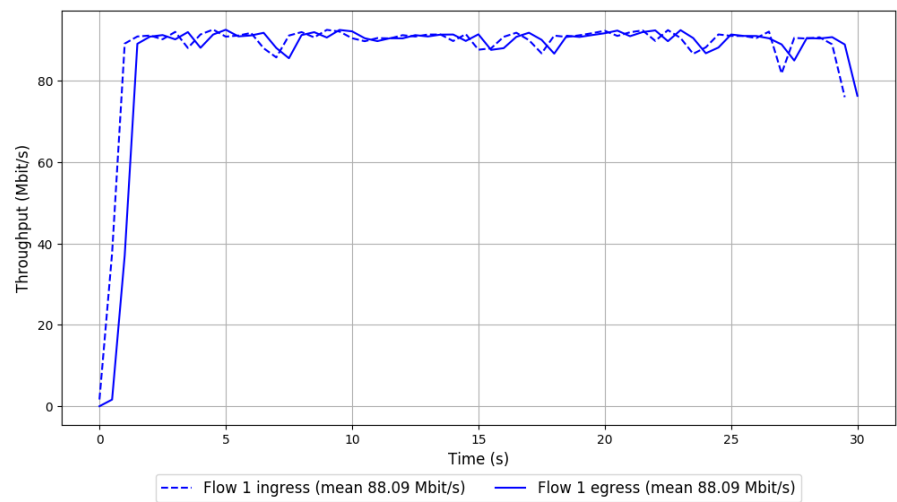


Run 4: Statistics of PCC-Vivace

Start at: 2019-03-08 22:42:27  
End at: 2019-03-08 22:42:57  
Local clock offset: -5.716 ms  
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2019-03-08 23:28:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 88.09 Mbit/s  
95th percentile per-packet one-way delay: 3.346 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 88.09 Mbit/s  
95th percentile per-packet one-way delay: 3.346 ms  
Loss rate: 0.01%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-03-08 23:05:53

End at: 2019-03-08 23:06:23

Local clock offset: -5.728 ms

Remote clock offset: 0.061 ms

# Below is generated by plot.py at 2019-03-08 23:28:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.51 Mbit/s

95th percentile per-packet one-way delay: 1.854 ms

Loss rate: 0.00%

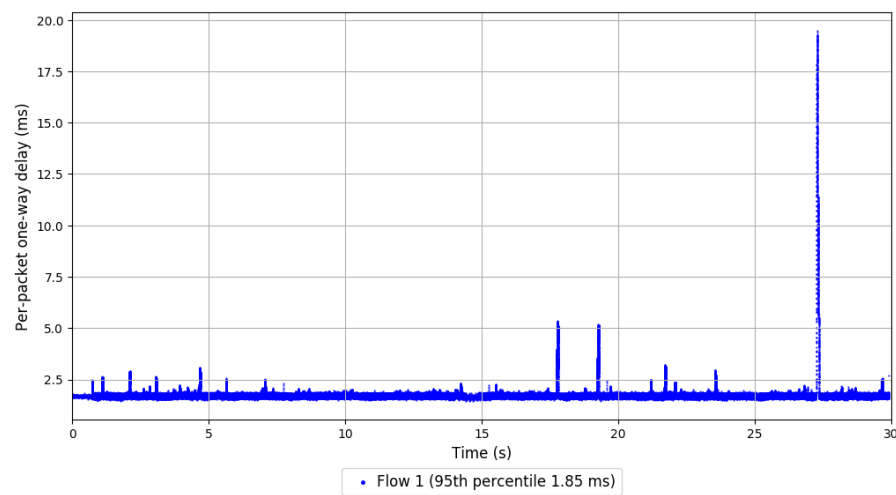
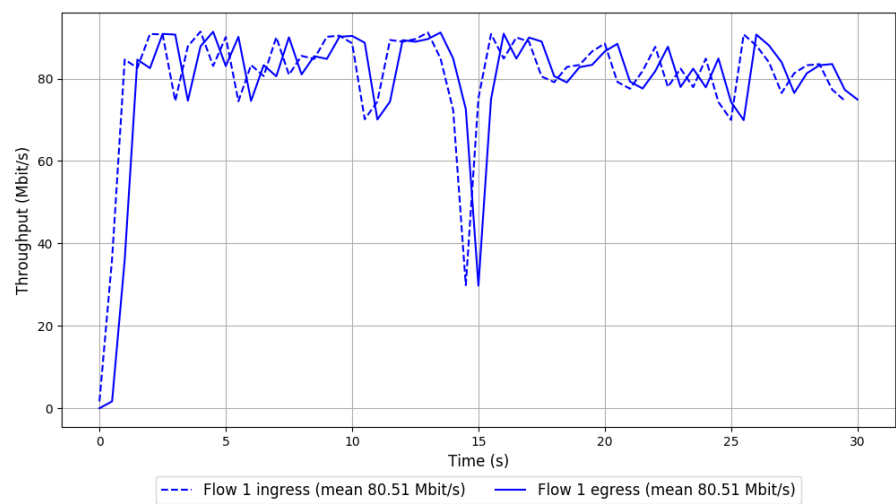
-- Flow 1:

Average throughput: 80.51 Mbit/s

95th percentile per-packet one-way delay: 1.854 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link



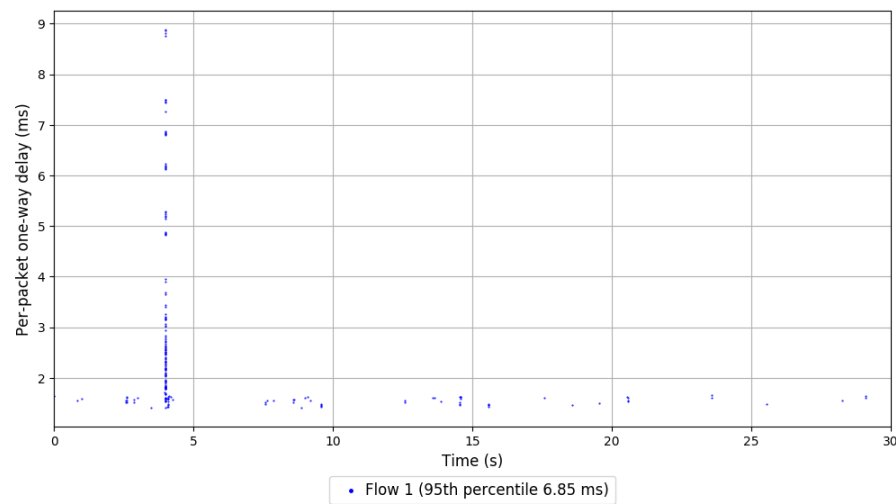
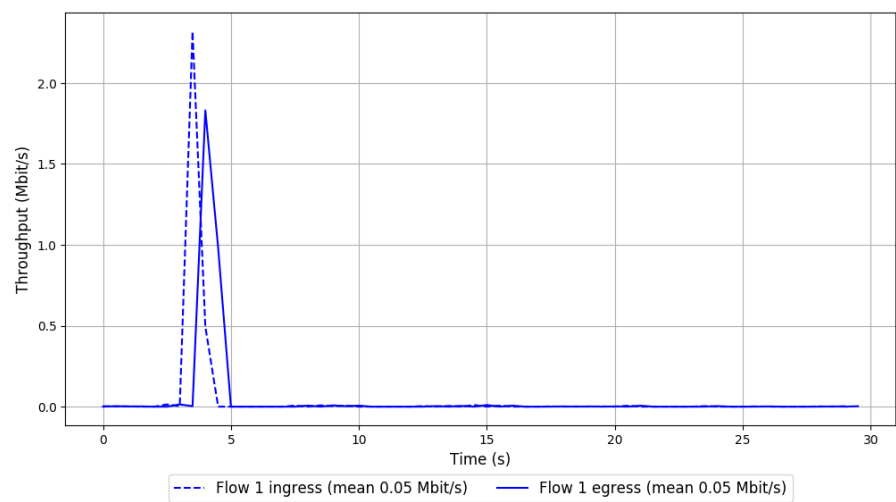


Run 1: Statistics of WebRTC media

Start at: 2019-03-08 21:34:22  
End at: 2019-03-08 21:34:52  
Local clock offset: -6.121 ms  
Remote clock offset: -0.298 ms

# Below is generated by plot.py at 2019-03-08 23:28:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 6.848 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 6.848 ms  
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

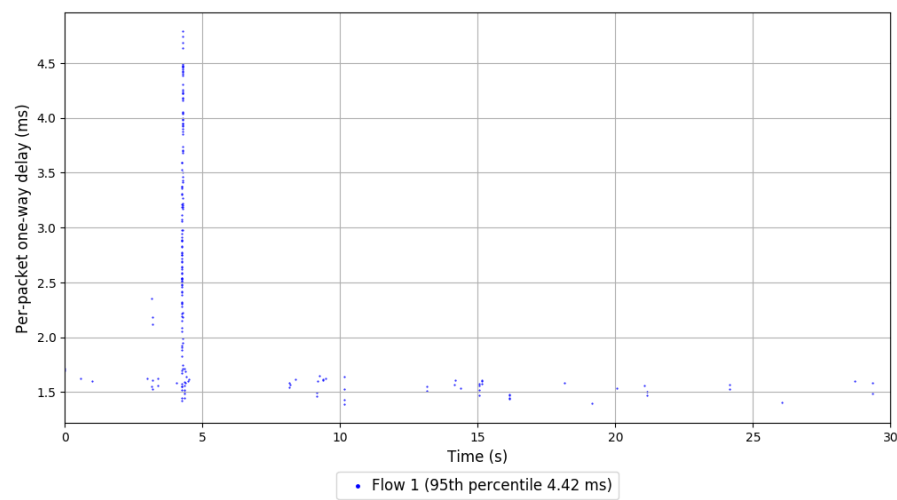
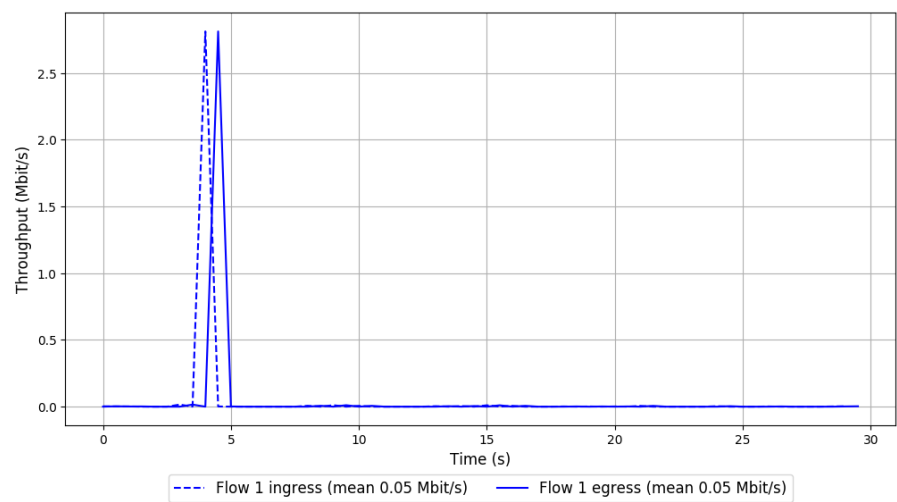


Run 2: Statistics of WebRTC media

Start at: 2019-03-08 21:57:49  
End at: 2019-03-08 21:58:19  
Local clock offset: -7.125 ms  
Remote clock offset: -0.271 ms

# Below is generated by plot.py at 2019-03-08 23:28:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 4.423 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 4.423 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

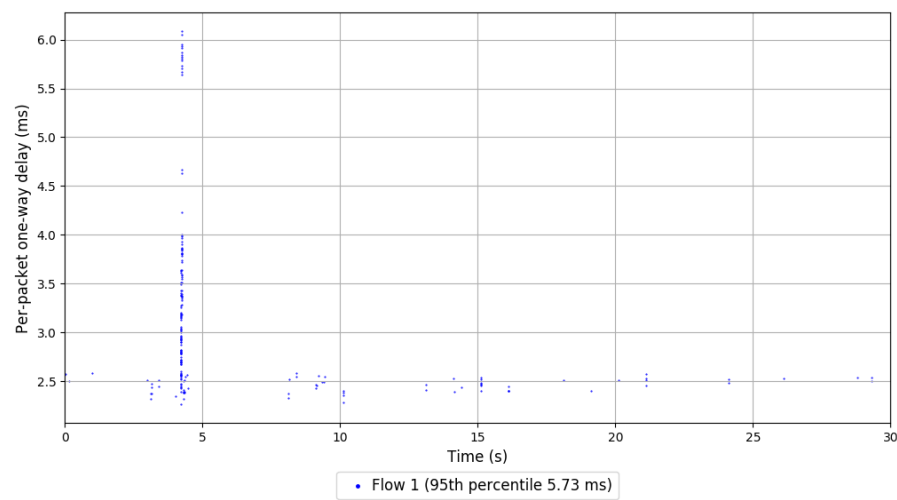
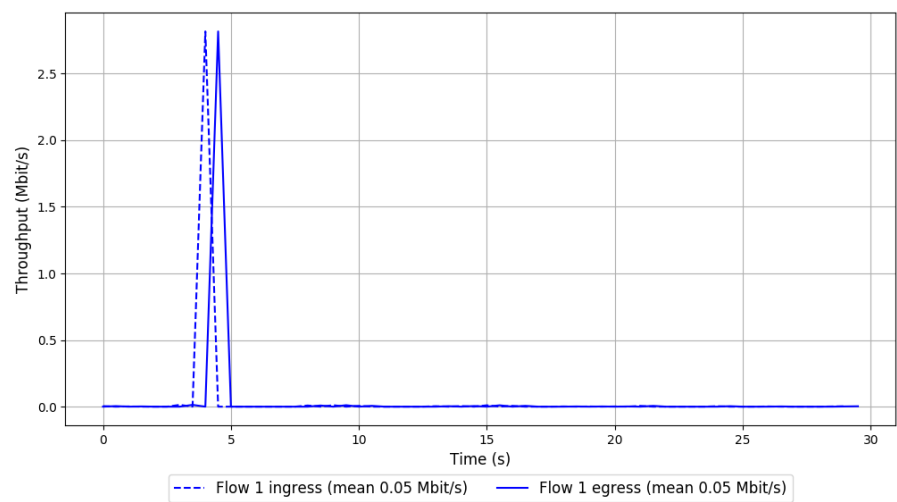


Run 3: Statistics of WebRTC media

Start at: 2019-03-08 22:21:16  
End at: 2019-03-08 22:21:46  
Local clock offset: -5.757 ms  
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2019-03-08 23:28:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 5.732 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 5.732 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

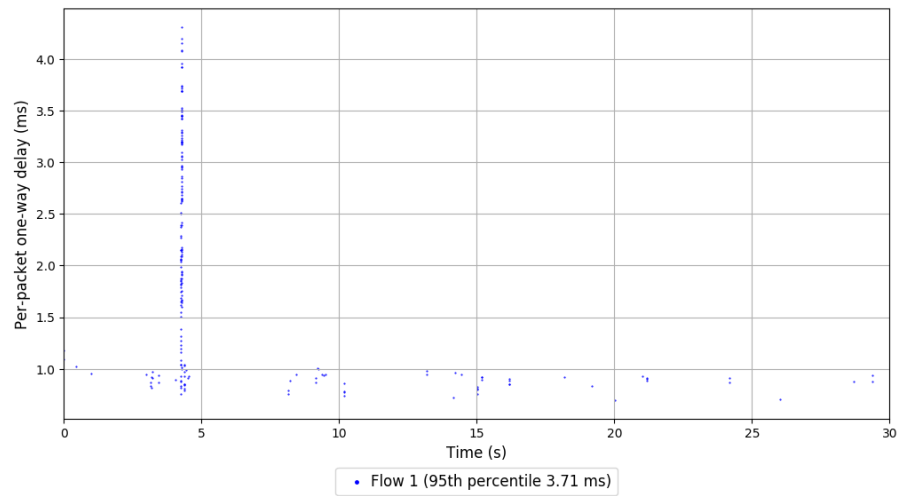
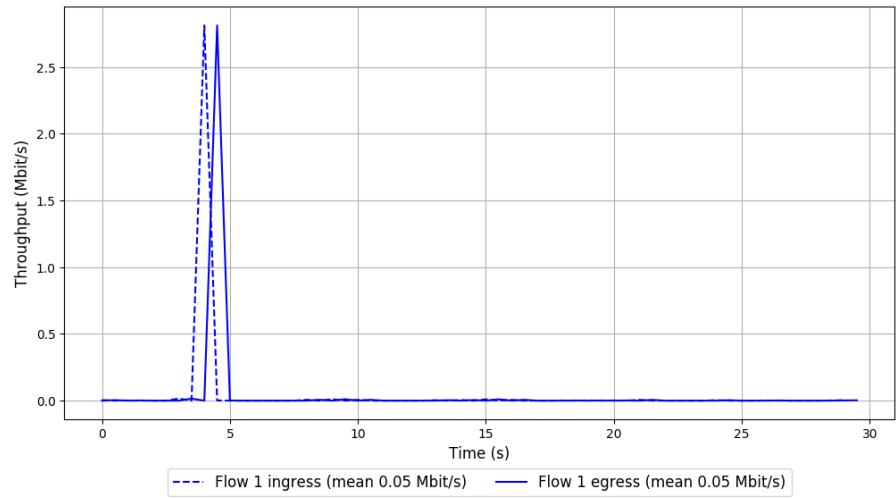


Run 4: Statistics of WebRTC media

Start at: 2019-03-08 22:44:42  
End at: 2019-03-08 22:45:12  
Local clock offset: -4.934 ms  
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2019-03-08 23:28:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 3.714 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 3.714 ms  
Loss rate: 0.00%

#### Run 4: Report of WebRTC media — Data Link





Run 5: Statistics of WebRTC media

Start at: 2019-03-08 23:08:10  
End at: 2019-03-08 23:08:40  
Local clock offset: -5.723 ms  
Remote clock offset: -0.005 ms

# Below is generated by plot.py at 2019-03-08 23:28:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 4.389 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 4.389 ms  
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

