

## Pantheon Report

Generated at 2019-08-26 20:08:57 (UTC).

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

Repeated the test of 24 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

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

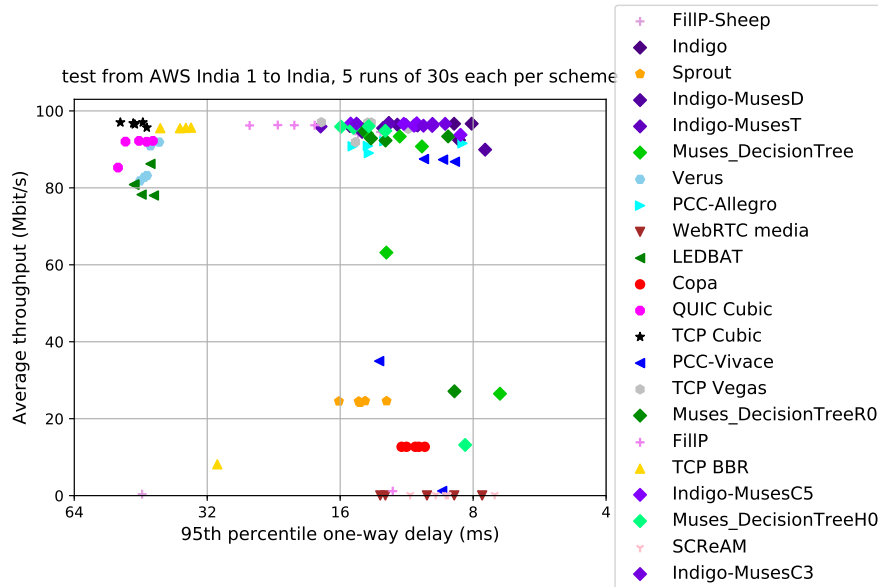
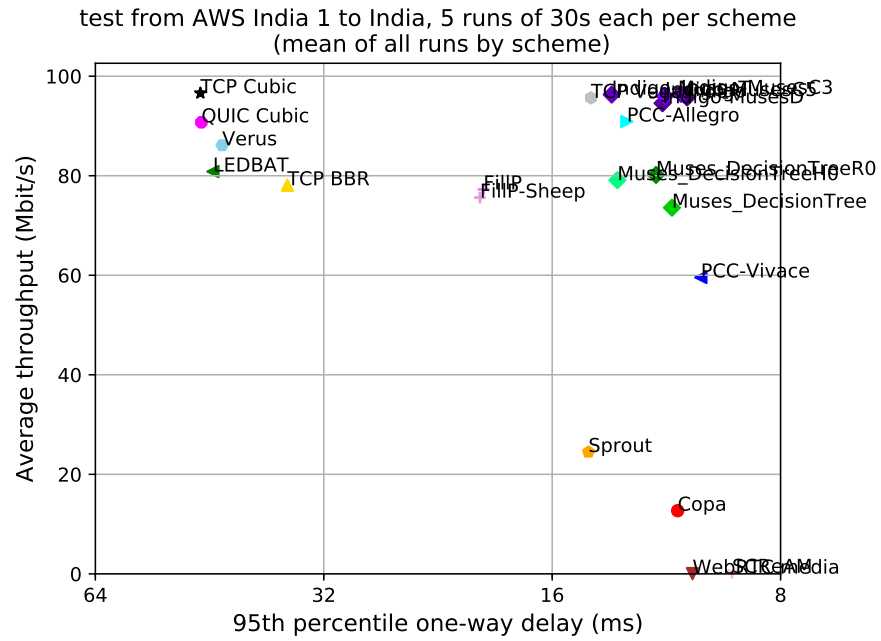
### System info:

```
Linux 4.15.0-1043-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 @ de42328552b3776a75a932a94dfafd722537b0ec
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/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
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



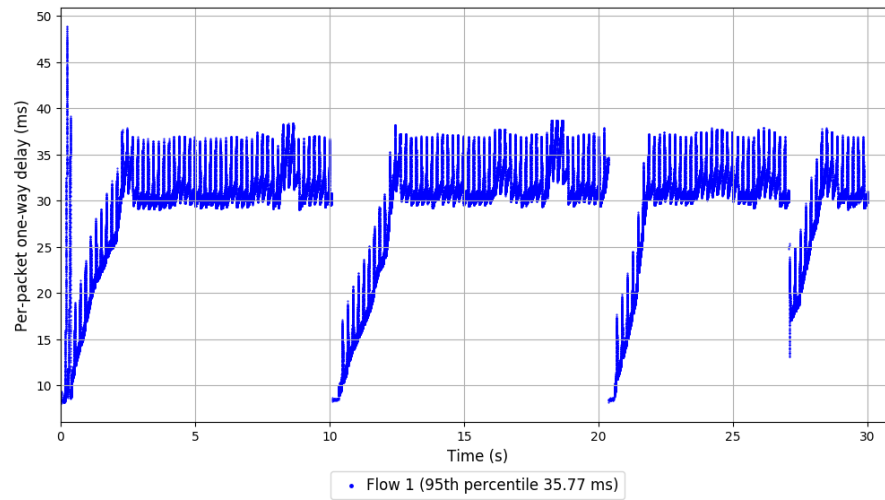
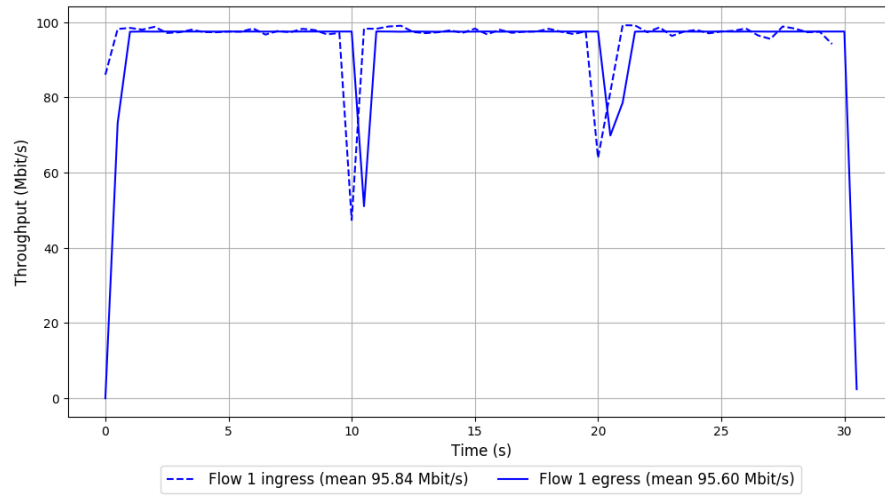
| scheme               | # runs | mean avg tput (Mbit/s)<br>flow 1 | mean 95th-%ile delay (ms)<br>flow 1 | mean loss rate (%)<br>flow 1 |
|----------------------|--------|----------------------------------|-------------------------------------|------------------------------|
| TCP BBR              | 5      | 78.09                            | 35.74                               | 6.34                         |
| Copa                 | 5      | 12.69                            | 10.93                               | 71.42                        |
| TCP Cubic            | 5      | 96.60                            | 46.53                               | 0.40                         |
| FillP                | 5      | 77.25                            | 19.71                               | 8.91                         |
| FillP-Sheep          | 5      | 75.60                            | 19.92                               | 8.47                         |
| Indigo               | 5      | 95.74                            | 10.63                               | 0.00                         |
| Indigo-MusesC3       | 5      | 96.44                            | 10.82                               | 0.02                         |
| Indigo-MusesC5       | 5      | 96.02                            | 11.36                               | 0.00                         |
| Indigo-MusesD        | 5      | 94.56                            | 11.45                               | 0.19                         |
| Indigo-MusesT        | 5      | 96.30                            | 13.36                               | 0.01                         |
| LEDBAT               | 5      | 80.84                            | 44.80                               | 0.11                         |
| Muses_DecisionTree   | 5      | 73.58                            | 11.12                               | 0.00                         |
| Muses_DecisionTreeH0 | 5      | 79.11                            | 13.13                               | 3.78                         |
| Muses_DecisionTreeR0 | 5      | 80.16                            | 11.68                               | 0.01                         |
| PCC-Allegro          | 5      | 90.89                            | 12.76                               | 0.32                         |
| PCC-Expr             | 0      | N/A                              | N/A                                 | N/A                          |
| QUIC Cubic           | 5      | 90.74                            | 46.39                               | 0.55                         |
| SCReAM               | 5      | 0.21                             | 9.27                                | 0.00                         |
| Sprout               | 5      | 24.49                            | 14.33                               | 0.00                         |
| TaoVA-100x           | 0      | N/A                              | N/A                                 | N/A                          |
| TCP Vegas            | 5      | 95.65                            | 14.22                               | 0.31                         |
| Verus                | 5      | 86.12                            | 43.56                               | 13.43                        |
| PCC-Vivace           | 5      | 59.56                            | 10.19                               | 2.34                         |
| WebRTC media         | 5      | 0.05                             | 10.45                               | 0.04                         |

Run 1: Statistics of TCP BBR

Start at: 2019-08-26 18:03:42  
End at: 2019-08-26 18:04:12  
Local clock offset: -16.435 ms  
Remote clock offset: -0.401 ms

# Below is generated by plot.py at 2019-08-26 19:57:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.60 Mbit/s  
95th percentile per-packet one-way delay: 35.773 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 95.60 Mbit/s  
95th percentile per-packet one-way delay: 35.773 ms  
Loss rate: 0.18%

# Run 1: Report of TCP BBR — Data Link

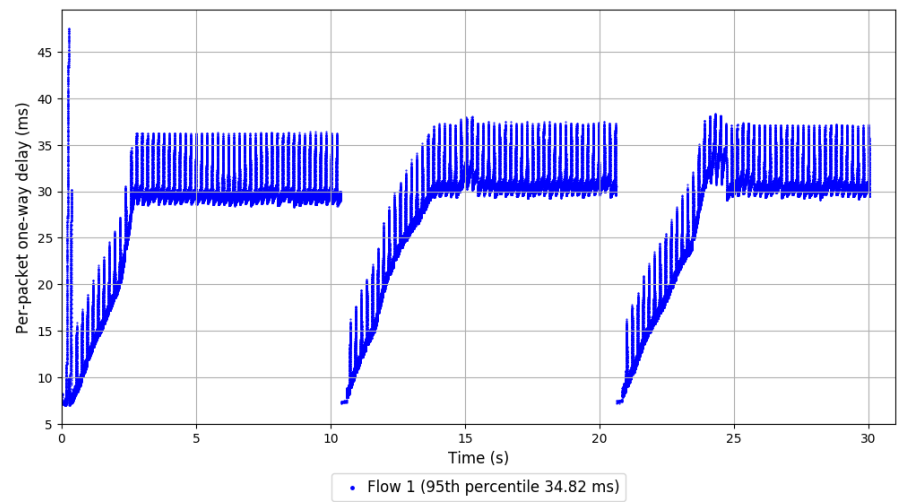
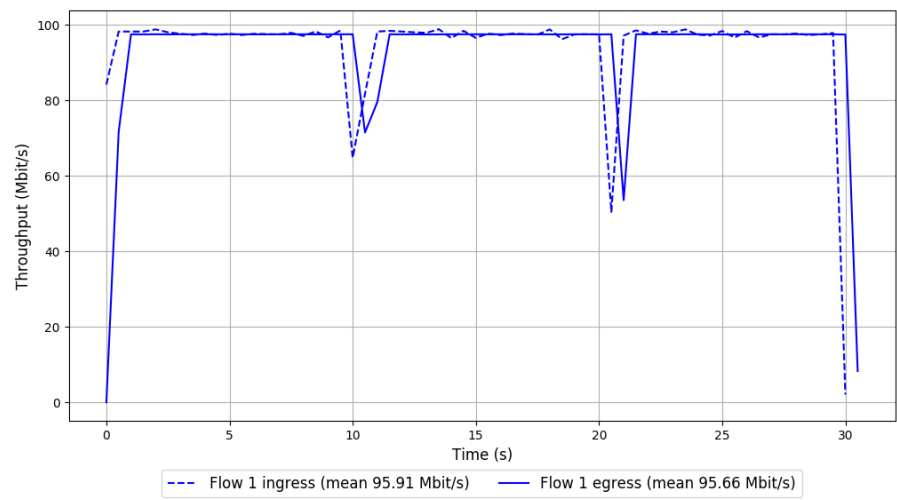


Run 2: Statistics of TCP BBR

Start at: 2019-08-26 18:31:43  
End at: 2019-08-26 18:32:14  
Local clock offset: -14.589 ms  
Remote clock offset: -0.237 ms

# Below is generated by plot.py at 2019-08-26 19:57:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.66 Mbit/s  
95th percentile per-packet one-way delay: 34.818 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 95.66 Mbit/s  
95th percentile per-packet one-way delay: 34.818 ms  
Loss rate: 0.19%

Run 2: Report of TCP BBR — Data Link

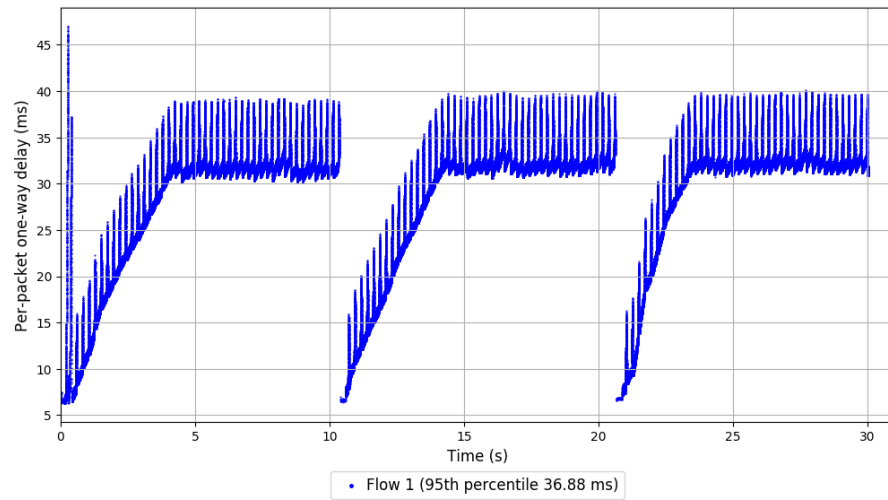
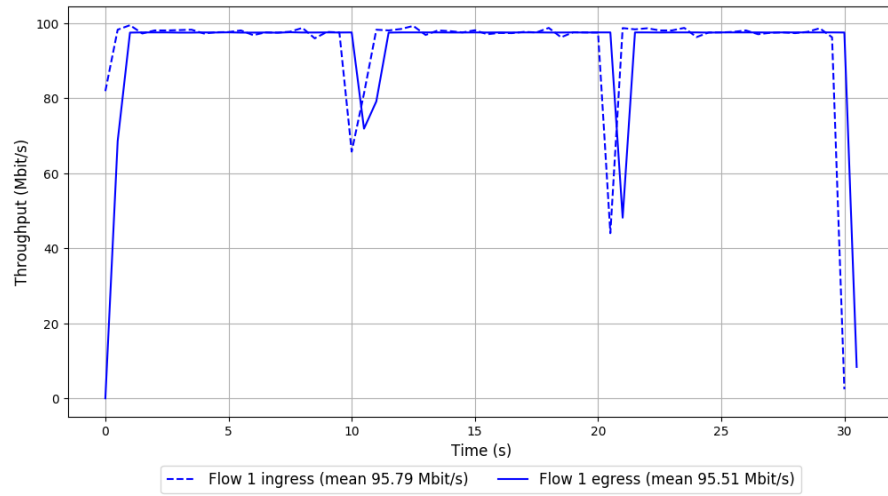


Run 3: Statistics of TCP BBR

Start at: 2019-08-26 18:59:19  
End at: 2019-08-26 18:59:49  
Local clock offset: -2.586 ms  
Remote clock offset: -3.147 ms

# Below is generated by plot.py at 2019-08-26 19:57:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.51 Mbit/s  
95th percentile per-packet one-way delay: 36.878 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 95.51 Mbit/s  
95th percentile per-packet one-way delay: 36.878 ms  
Loss rate: 0.21%

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

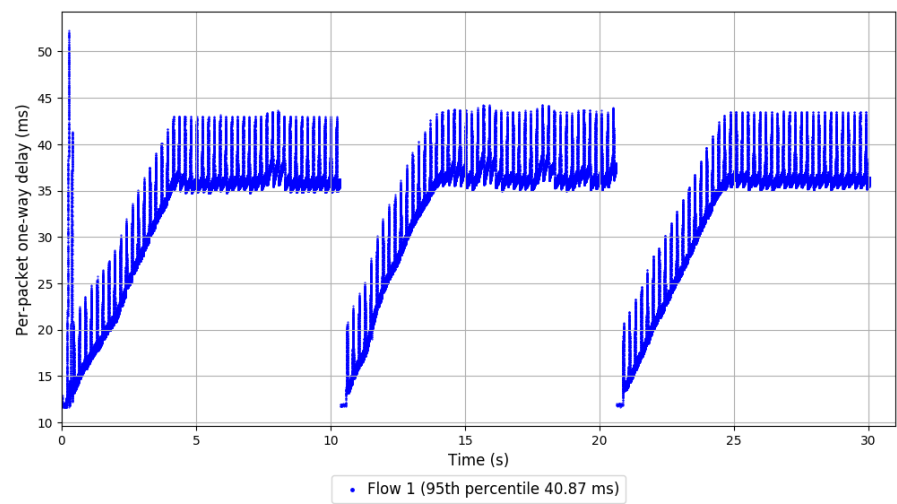
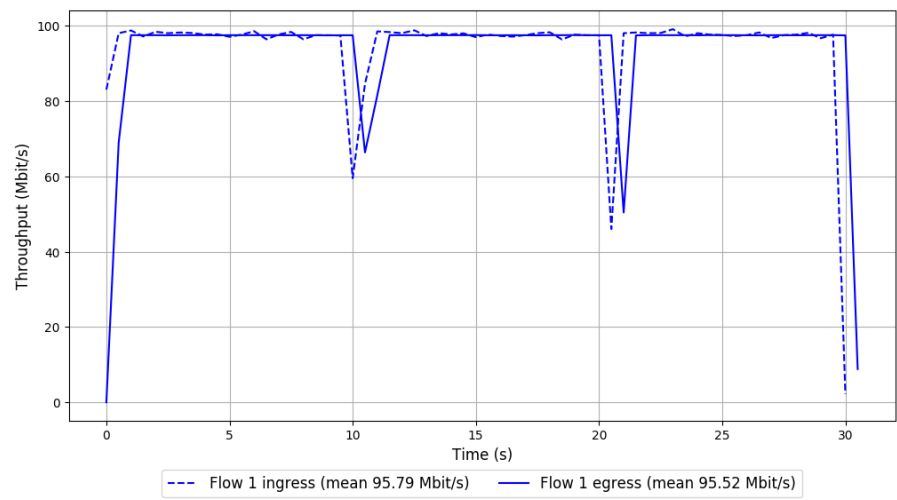


Run 4: Statistics of TCP BBR

Start at: 2019-08-26 19:26:53  
End at: 2019-08-26 19:27:23  
Local clock offset: -3.443 ms  
Remote clock offset: -1.139 ms

# Below is generated by plot.py at 2019-08-26 19:57:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.52 Mbit/s  
95th percentile per-packet one-way delay: 40.868 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 95.52 Mbit/s  
95th percentile per-packet one-way delay: 40.868 ms  
Loss rate: 0.21%

Run 4: Report of TCP BBR — Data Link

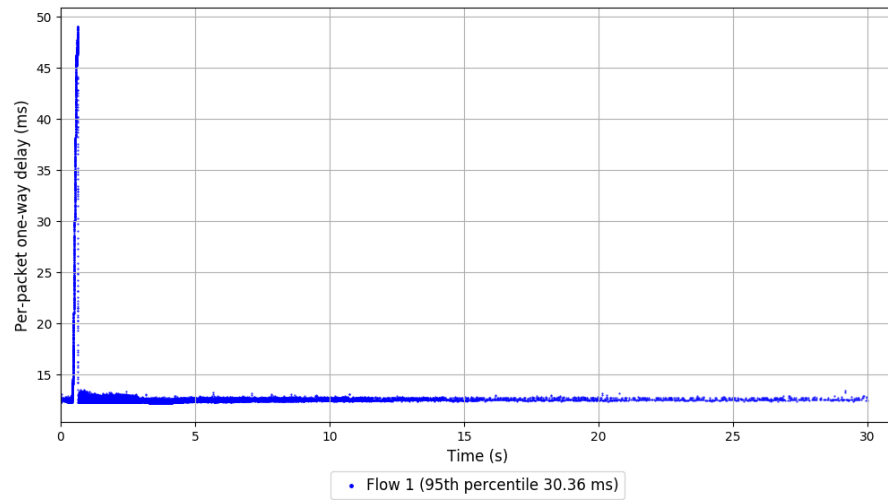
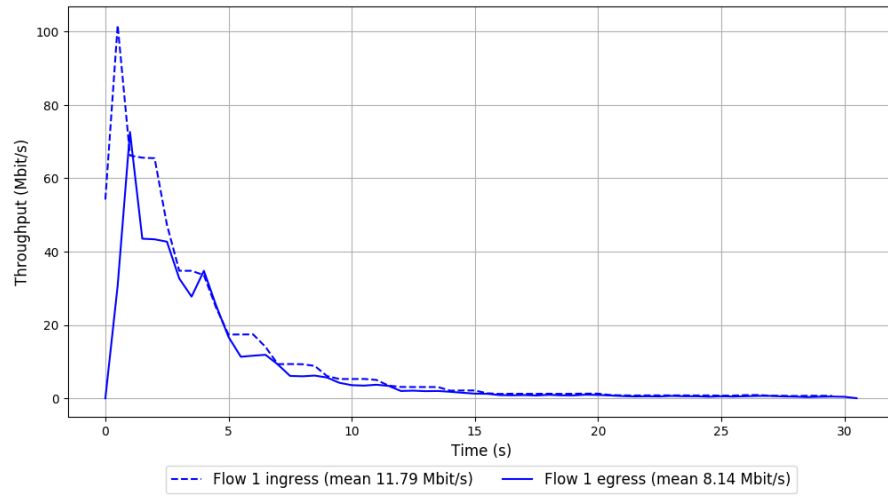


Run 5: Statistics of TCP BBR

Start at: 2019-08-26 19:54:28  
End at: 2019-08-26 19:54:58  
Local clock offset: -2.925 ms  
Remote clock offset: -1.281 ms

# Below is generated by plot.py at 2019-08-26 19:57:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 8.14 Mbit/s  
95th percentile per-packet one-way delay: 30.361 ms  
Loss rate: 30.91%  
-- Flow 1:  
Average throughput: 8.14 Mbit/s  
95th percentile per-packet one-way delay: 30.361 ms  
Loss rate: 30.91%

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

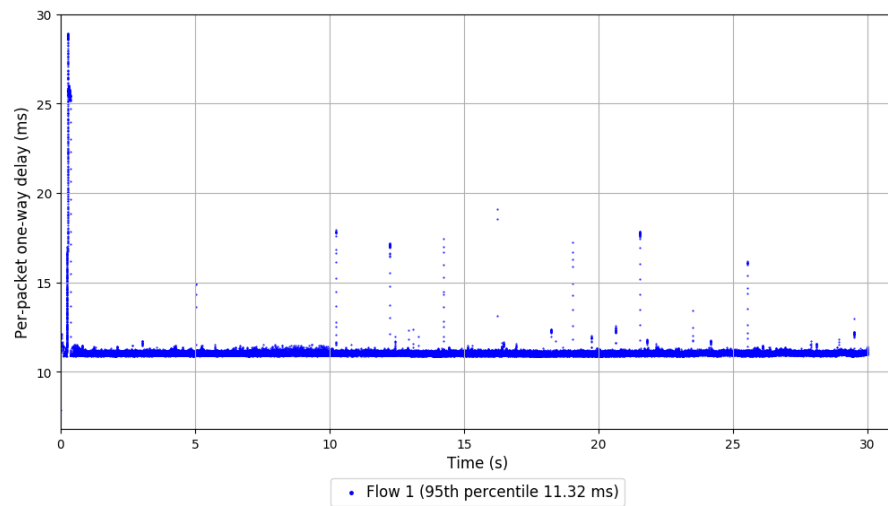
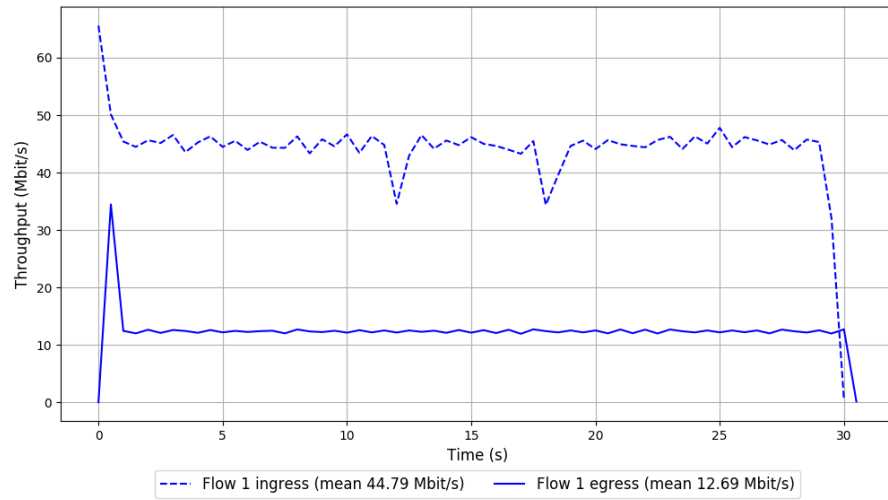


Run 1: Statistics of Copa

Start at: 2019-08-26 17:55:32  
End at: 2019-08-26 17:56:02  
Local clock offset: -17.256 ms  
Remote clock offset: -1.252 ms

# Below is generated by plot.py at 2019-08-26 19:57:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.69 Mbit/s  
95th percentile per-packet one-way delay: 11.323 ms  
Loss rate: 71.67%  
-- Flow 1:  
Average throughput: 12.69 Mbit/s  
95th percentile per-packet one-way delay: 11.323 ms  
Loss rate: 71.67%

## Run 1: Report of Copa — Data Link

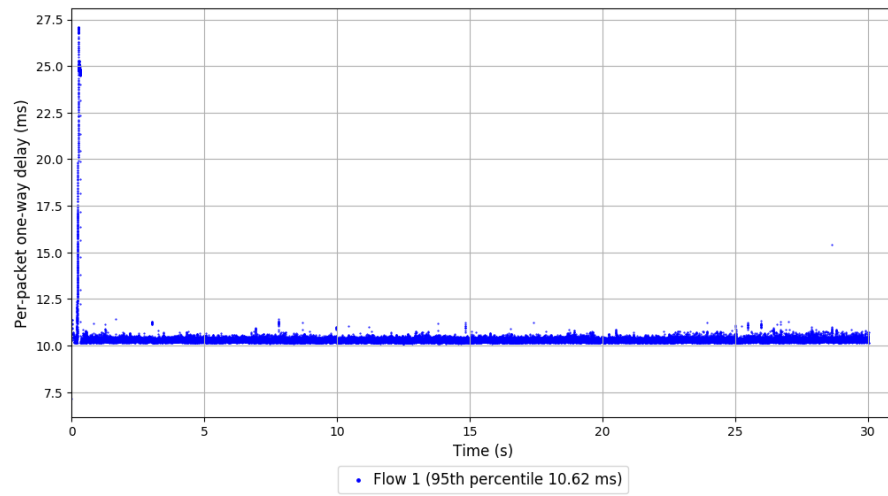
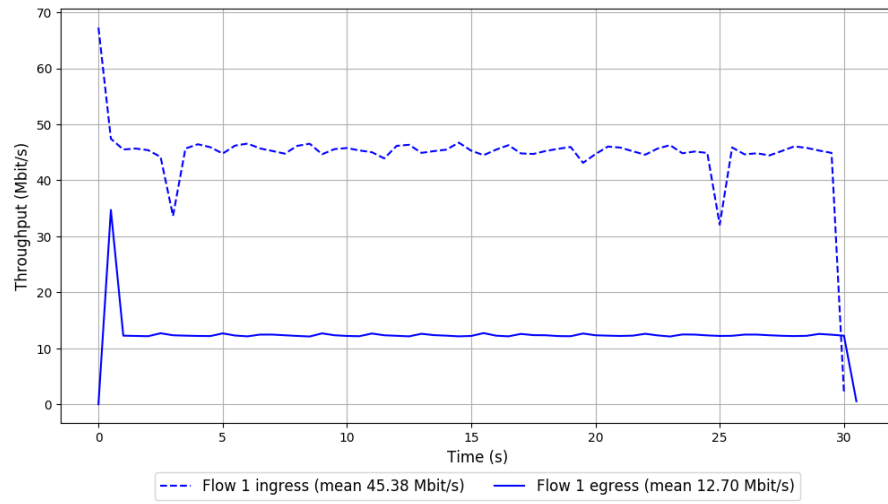


Run 2: Statistics of Copa

Start at: 2019-08-26 18:23:34  
End at: 2019-08-26 18:24:04  
Local clock offset: -16.931 ms  
Remote clock offset: -0.771 ms

# Below is generated by plot.py at 2019-08-26 19:57:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.70 Mbit/s  
95th percentile per-packet one-way delay: 10.618 ms  
Loss rate: 72.02%  
-- Flow 1:  
Average throughput: 12.70 Mbit/s  
95th percentile per-packet one-way delay: 10.618 ms  
Loss rate: 72.02%

## Run 2: Report of Copa — Data Link

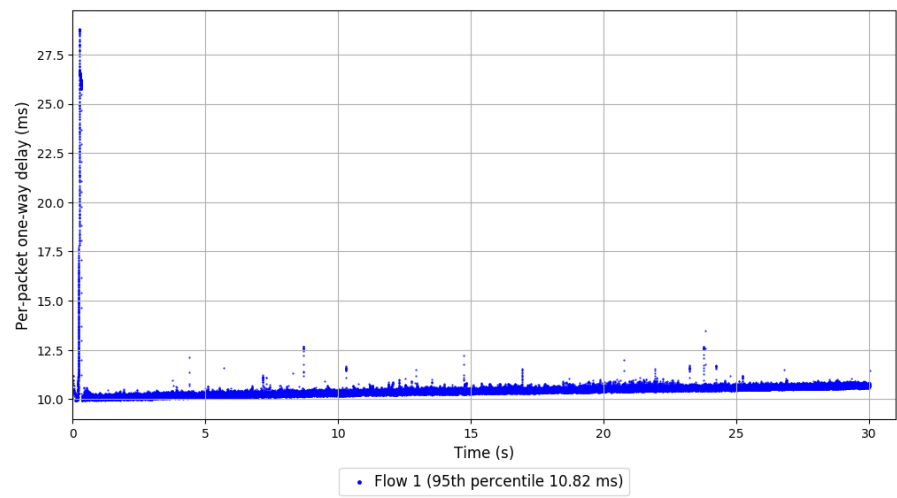
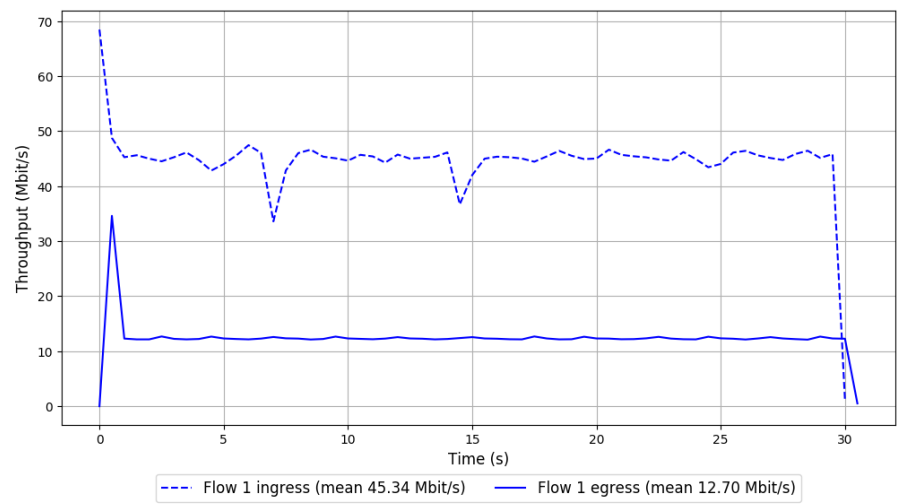


Run 3: Statistics of Copa

Start at: 2019-08-26 18:51:19  
End at: 2019-08-26 18:51:49  
Local clock offset: -8.159 ms  
Remote clock offset: -0.486 ms

# Below is generated by plot.py at 2019-08-26 19:57:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.70 Mbit/s  
95th percentile per-packet one-way delay: 10.816 ms  
Loss rate: 72.00%  
-- Flow 1:  
Average throughput: 12.70 Mbit/s  
95th percentile per-packet one-way delay: 10.816 ms  
Loss rate: 72.00%

Run 3: Report of Copa — Data Link

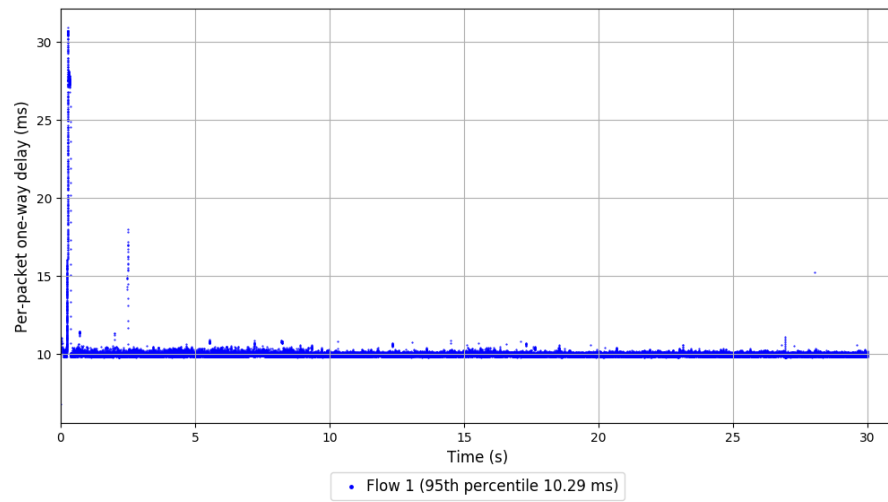
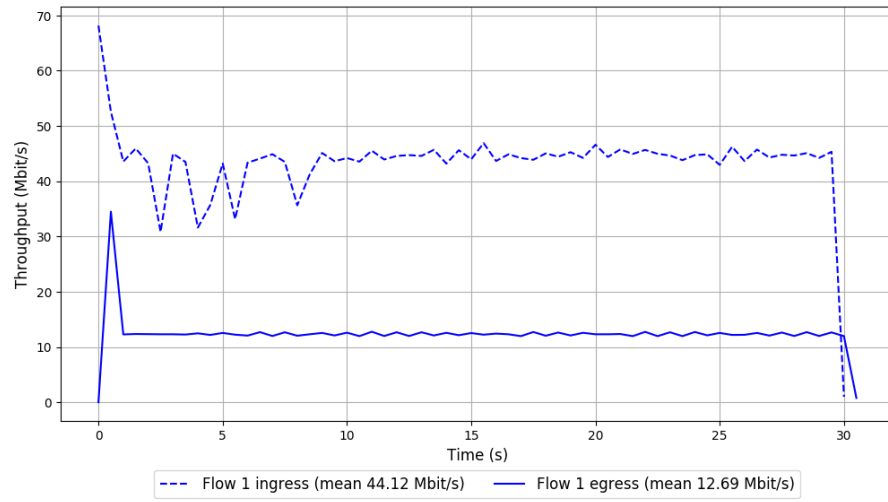


Run 4: Statistics of Copa

Start at: 2019-08-26 19:18:49  
End at: 2019-08-26 19:19:19  
Local clock offset: -2.534 ms  
Remote clock offset: -1.793 ms

# Below is generated by plot.py at 2019-08-26 19:57:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.69 Mbit/s  
95th percentile per-packet one-way delay: 10.294 ms  
Loss rate: 71.22%  
-- Flow 1:  
Average throughput: 12.69 Mbit/s  
95th percentile per-packet one-way delay: 10.294 ms  
Loss rate: 71.22%

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

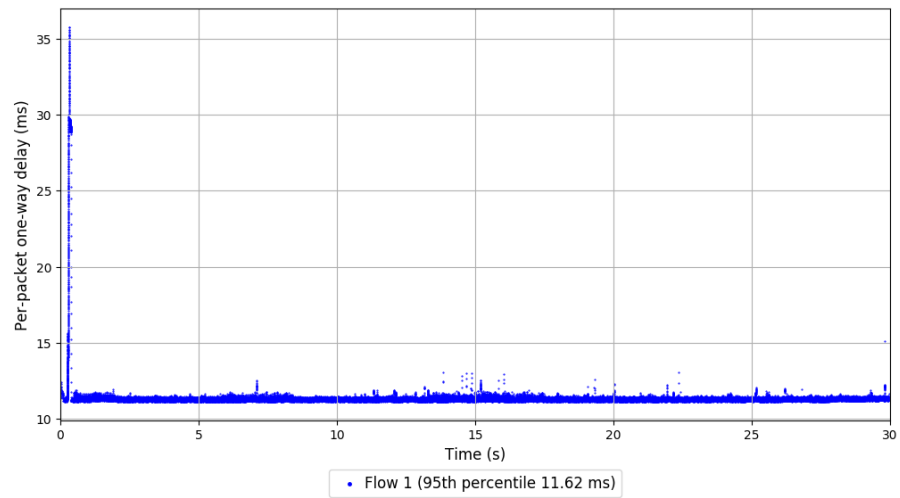
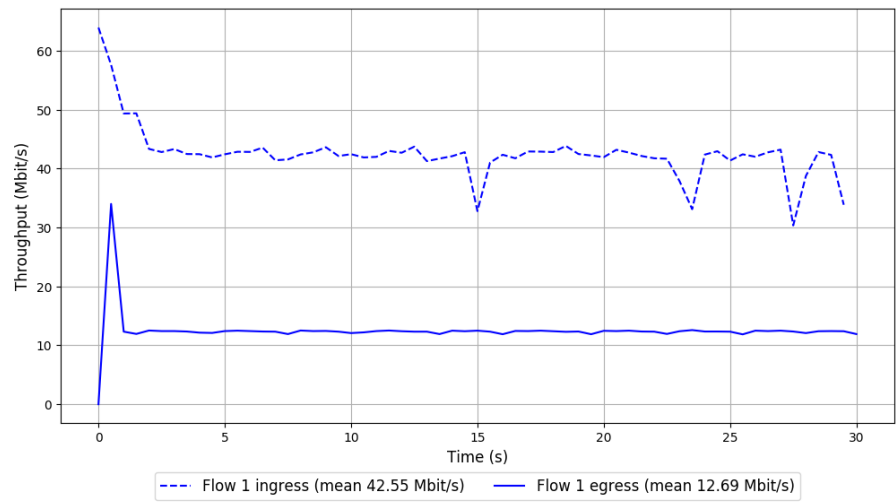


Run 5: Statistics of Copa

Start at: 2019-08-26 19:46:26  
End at: 2019-08-26 19:46:56  
Local clock offset: -2.61 ms  
Remote clock offset: -1.326 ms

# Below is generated by plot.py at 2019-08-26 19:57:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.69 Mbit/s  
95th percentile per-packet one-way delay: 11.618 ms  
Loss rate: 70.18%  
-- Flow 1:  
Average throughput: 12.69 Mbit/s  
95th percentile per-packet one-way delay: 11.618 ms  
Loss rate: 70.18%

## Run 5: Report of Copa — Data Link

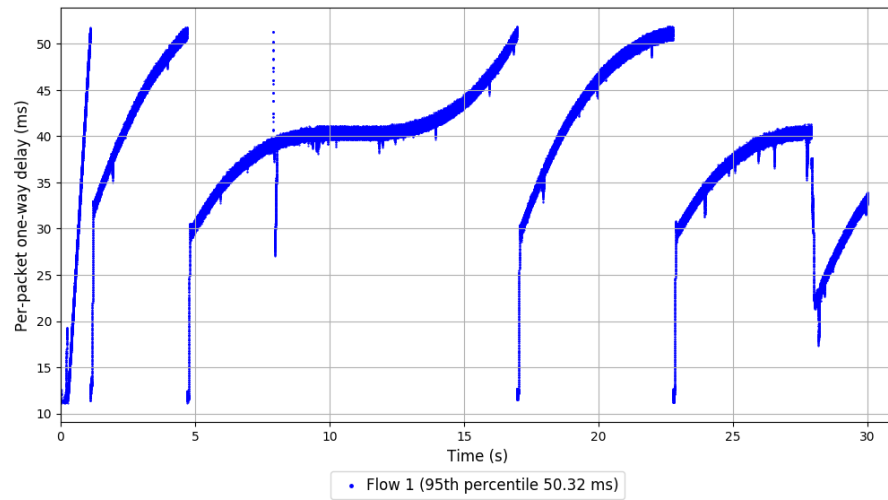
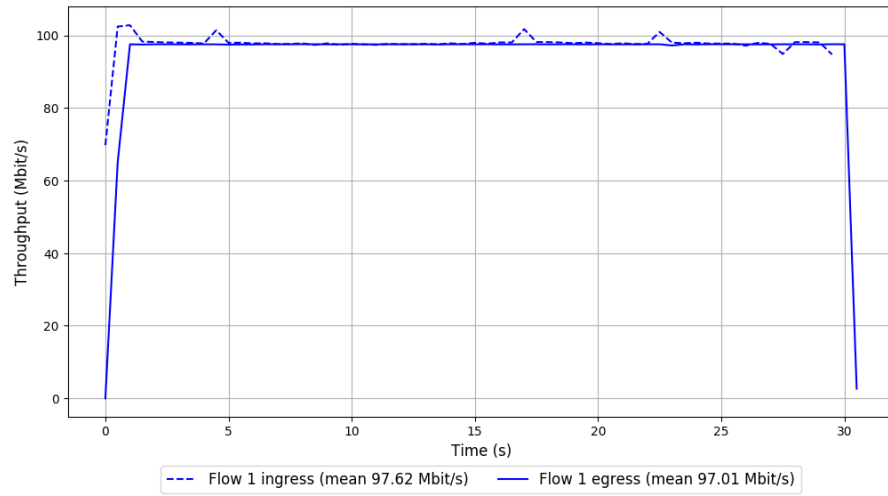


Run 1: Statistics of TCP Cubic

Start at: 2019-08-26 17:47:30  
End at: 2019-08-26 17:48:00  
Local clock offset: -17.55 ms  
Remote clock offset: -0.783 ms

# Below is generated by plot.py at 2019-08-26 19:58:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.01 Mbit/s  
95th percentile per-packet one-way delay: 50.324 ms  
Loss rate: 0.56%  
-- Flow 1:  
Average throughput: 97.01 Mbit/s  
95th percentile per-packet one-way delay: 50.324 ms  
Loss rate: 0.56%

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

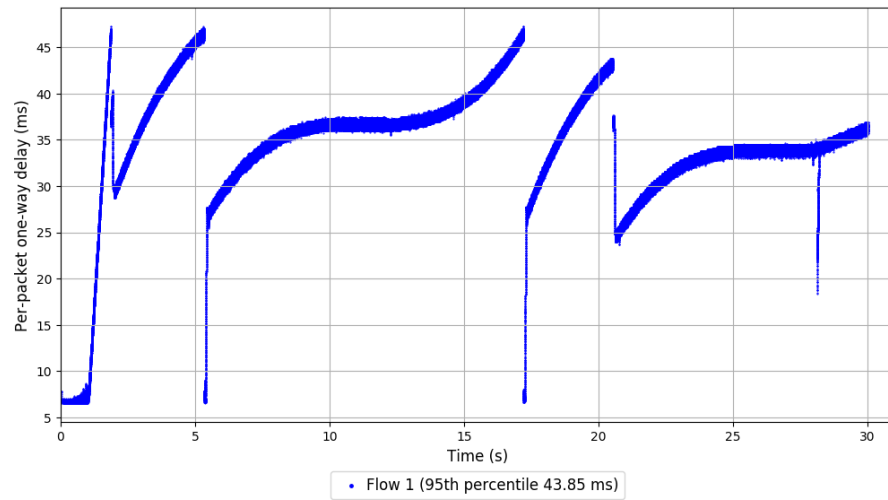
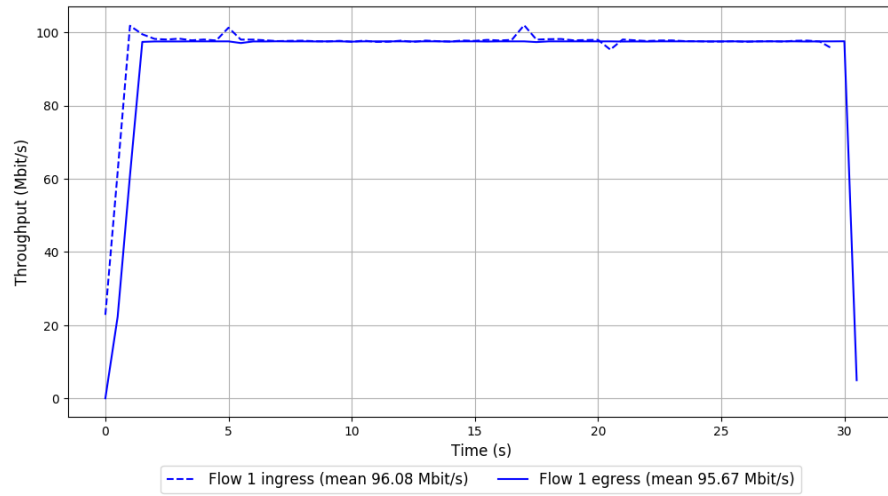


Run 2: Statistics of TCP Cubic

Start at: 2019-08-26 18:15:33  
End at: 2019-08-26 18:16:03  
Local clock offset: -17.132 ms  
Remote clock offset: -2.259 ms

# Below is generated by plot.py at 2019-08-26 19:58:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.67 Mbit/s  
95th percentile per-packet one-way delay: 43.847 ms  
Loss rate: 0.33%  
-- Flow 1:  
Average throughput: 95.67 Mbit/s  
95th percentile per-packet one-way delay: 43.847 ms  
Loss rate: 0.33%

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

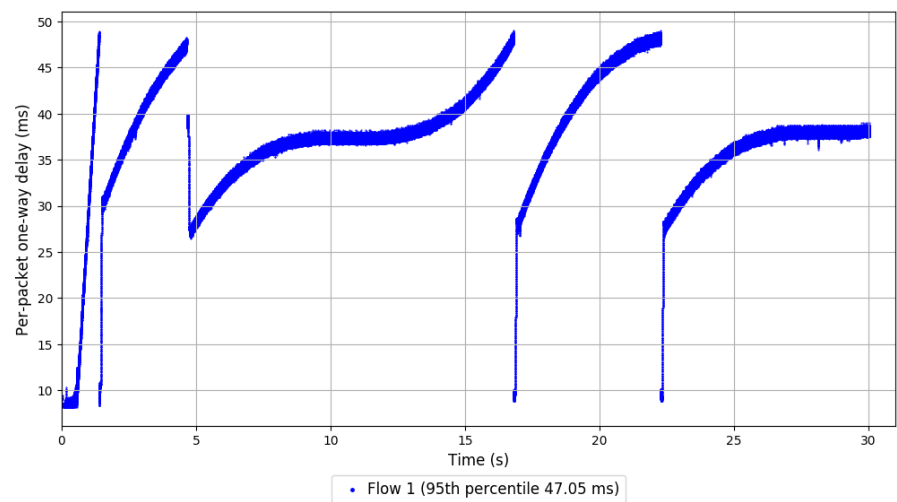
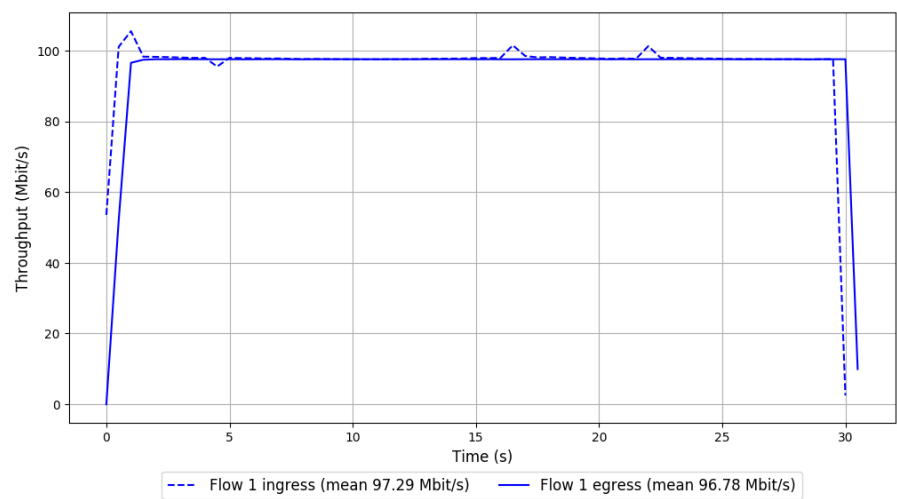


Run 3: Statistics of TCP Cubic

Start at: 2019-08-26 18:43:20  
End at: 2019-08-26 18:43:50  
Local clock offset: -13.607 ms  
Remote clock offset: -0.32 ms

# Below is generated by plot.py at 2019-08-26 19:58:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.78 Mbit/s  
95th percentile per-packet one-way delay: 47.047 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 96.78 Mbit/s  
95th percentile per-packet one-way delay: 47.047 ms  
Loss rate: 0.43%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-08-26 19:10:49

End at: 2019-08-26 19:11:19

Local clock offset: 0.231 ms

Remote clock offset: -0.8 ms

# Below is generated by plot.py at 2019-08-26 19:58:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.02 Mbit/s

95th percentile per-packet one-way delay: 44.769 ms

Loss rate: 0.32%

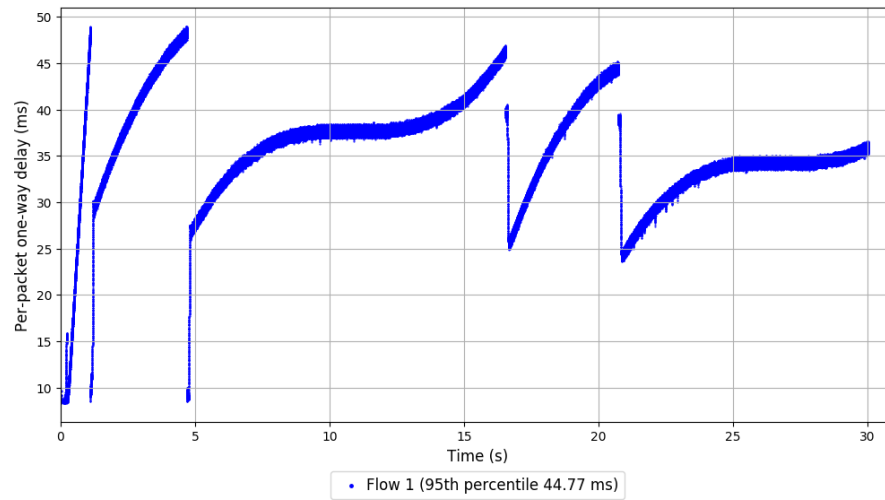
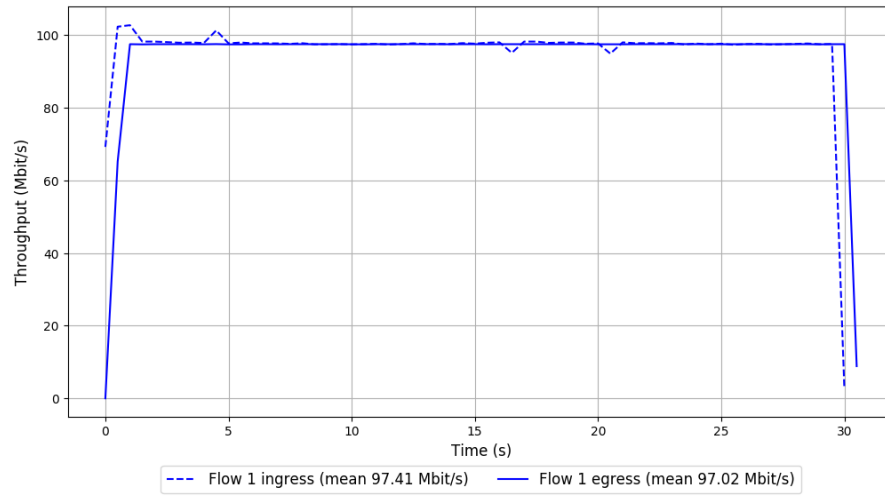
-- Flow 1:

Average throughput: 97.02 Mbit/s

95th percentile per-packet one-way delay: 44.769 ms

Loss rate: 0.32%

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

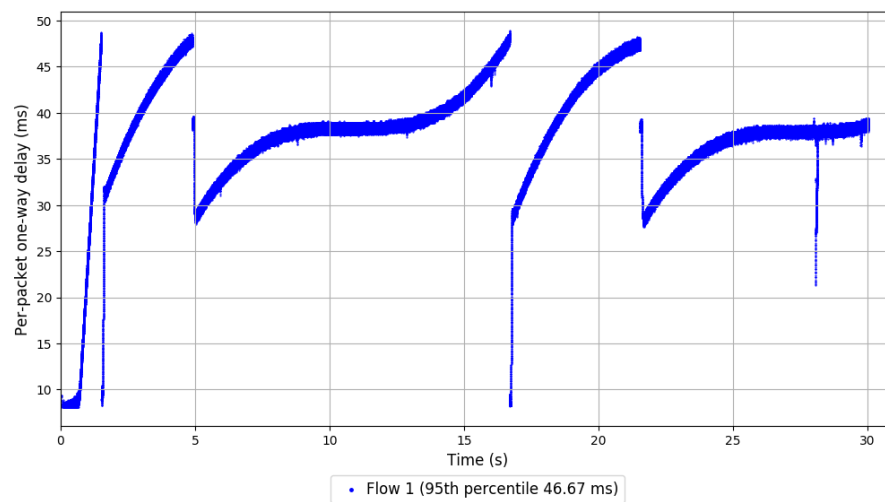
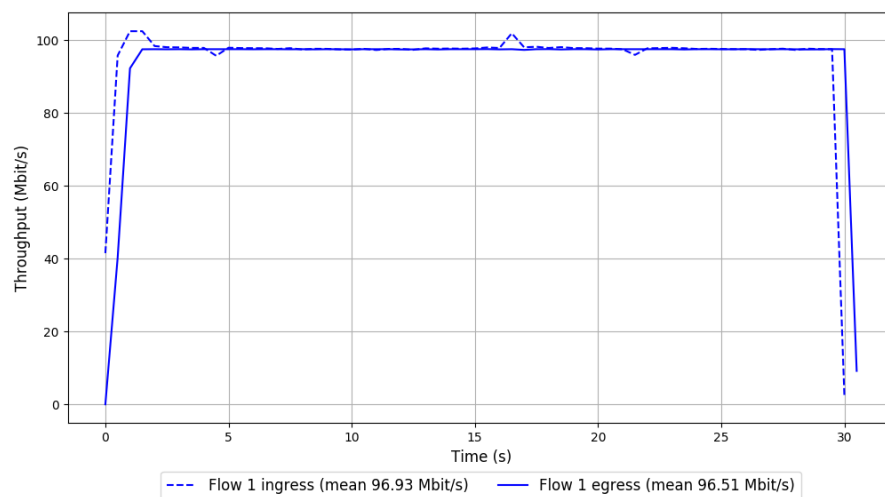


Run 5: Statistics of TCP Cubic

Start at: 2019-08-26 19:38:21  
End at: 2019-08-26 19:38:51  
Local clock offset: -2.925 ms  
Remote clock offset: -1.382 ms

# Below is generated by plot.py at 2019-08-26 19:58:52  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.51 Mbit/s  
95th percentile per-packet one-way delay: 46.669 ms  
Loss rate: 0.35%  
-- Flow 1:  
Average throughput: 96.51 Mbit/s  
95th percentile per-packet one-way delay: 46.669 ms  
Loss rate: 0.35%

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

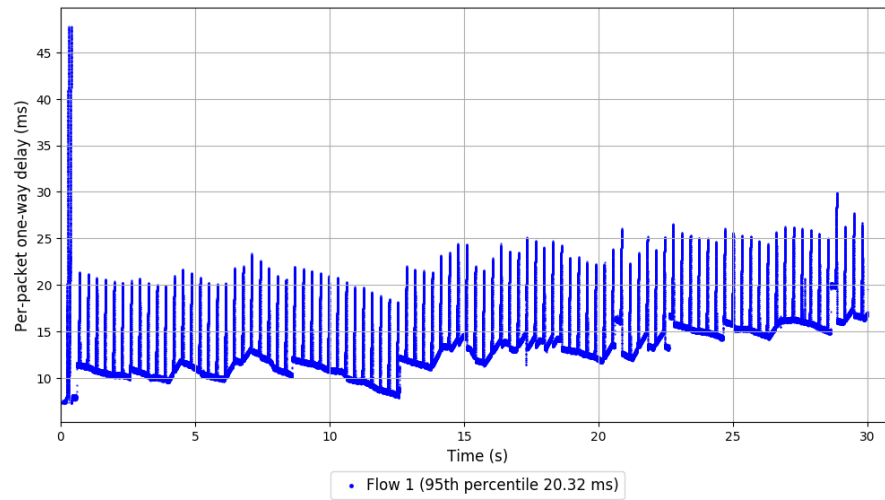
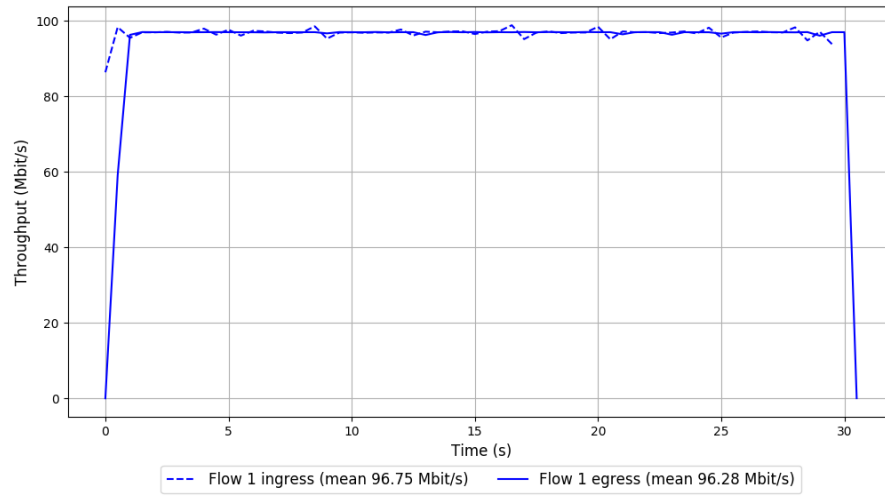


Run 1: Statistics of FillP

Start at: 2019-08-26 17:36:54  
End at: 2019-08-26 17:37:24  
Local clock offset: -16.994 ms  
Remote clock offset: -0.75 ms

# Below is generated by plot.py at 2019-08-26 19:59:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.28 Mbit/s  
95th percentile per-packet one-way delay: 20.322 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 96.28 Mbit/s  
95th percentile per-packet one-way delay: 20.322 ms  
Loss rate: 0.44%

## Run 1: Report of FillP — Data Link

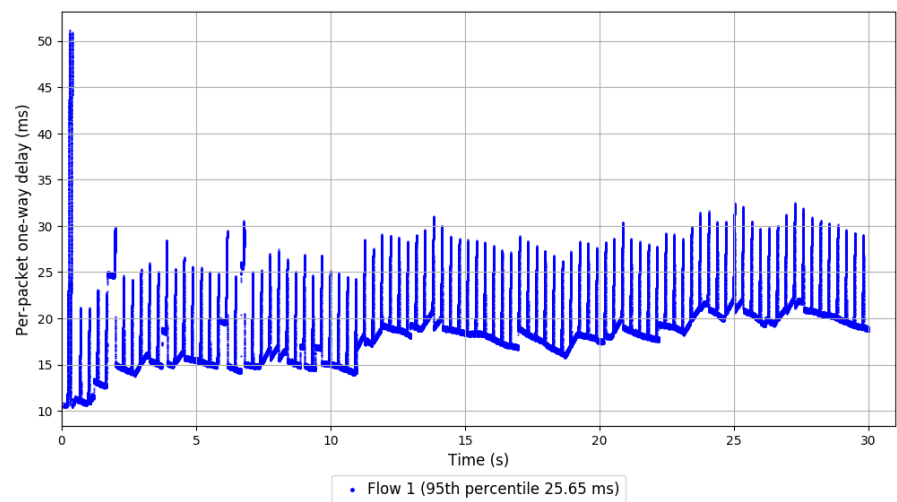
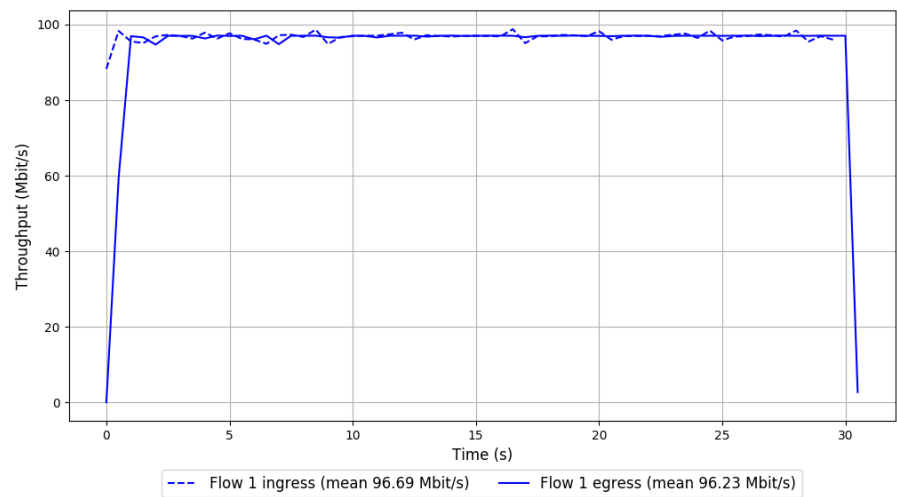


Run 2: Statistics of FillP

Start at: 2019-08-26 18:04:54  
End at: 2019-08-26 18:05:24  
Local clock offset: -17.566 ms  
Remote clock offset: 0.982 ms

# Below is generated by plot.py at 2019-08-26 19:59:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.23 Mbit/s  
95th percentile per-packet one-way delay: 25.652 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 96.23 Mbit/s  
95th percentile per-packet one-way delay: 25.652 ms  
Loss rate: 0.46%

Run 2: Report of FillP — Data Link

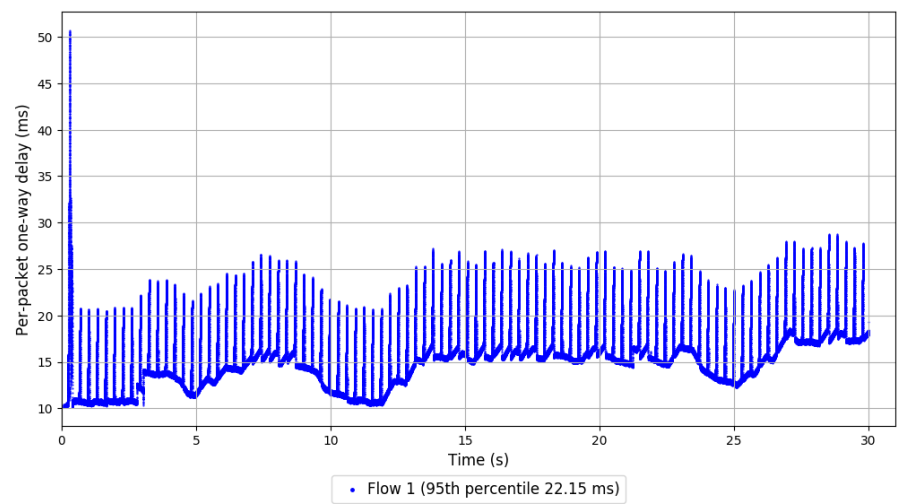
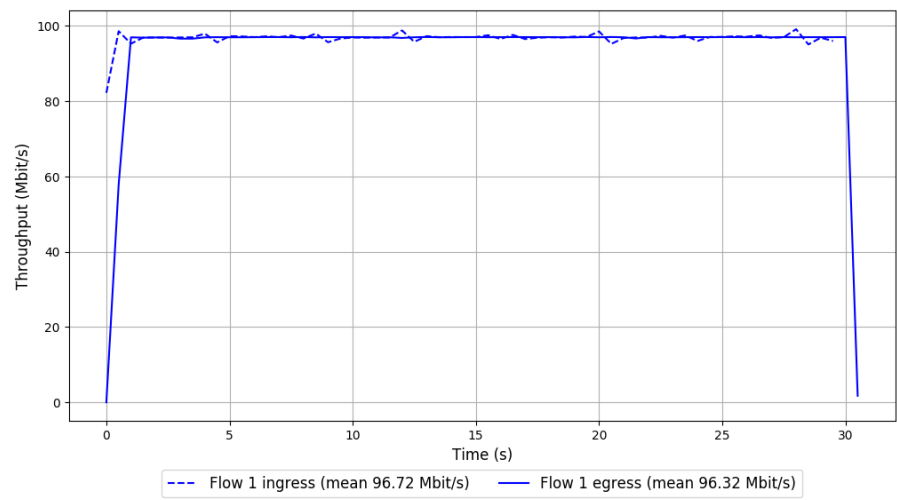


Run 3: Statistics of FillP

Start at: 2019-08-26 18:32:54  
End at: 2019-08-26 18:33:24  
Local clock offset: -16.147 ms  
Remote clock offset: -2.011 ms

# Below is generated by plot.py at 2019-08-26 19:59:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.32 Mbit/s  
95th percentile per-packet one-way delay: 22.151 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 96.32 Mbit/s  
95th percentile per-packet one-way delay: 22.151 ms  
Loss rate: 0.39%

Run 3: Report of FillP — Data Link

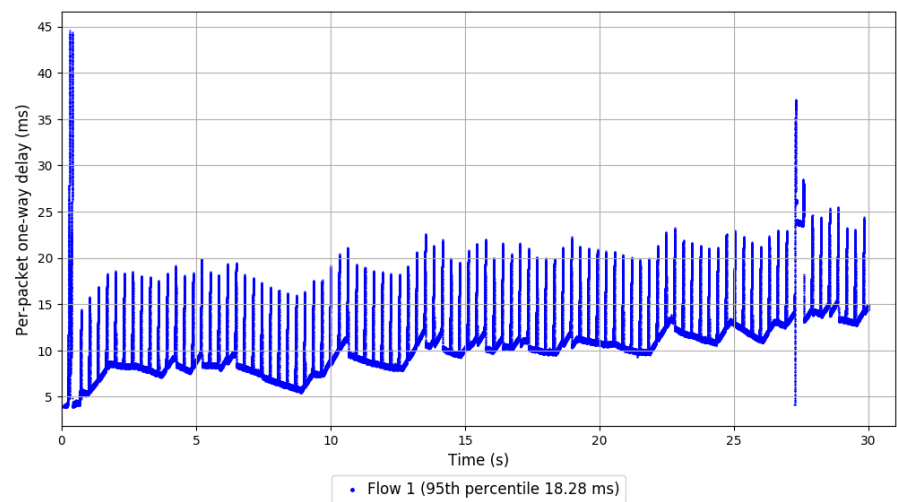
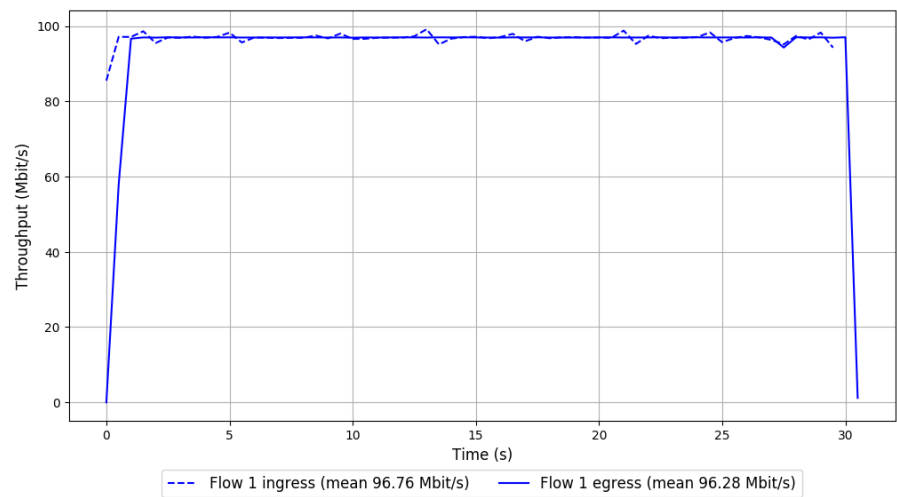


Run 4: Statistics of FillP

Start at: 2019-08-26 19:00:28  
End at: 2019-08-26 19:00:58  
Local clock offset: 0.667 ms  
Remote clock offset: -2.625 ms

# Below is generated by plot.py at 2019-08-26 19:59:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.28 Mbit/s  
95th percentile per-packet one-way delay: 18.276 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 96.28 Mbit/s  
95th percentile per-packet one-way delay: 18.276 ms  
Loss rate: 0.46%

Run 4: Report of FillP — Data Link

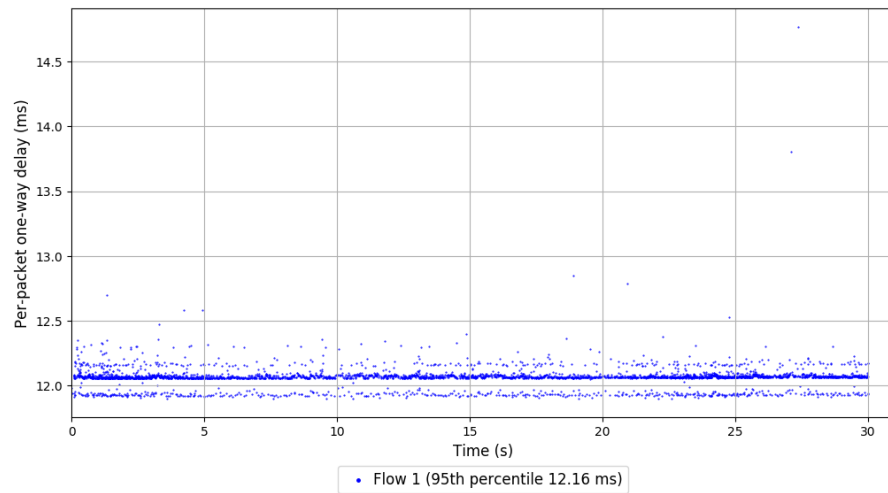
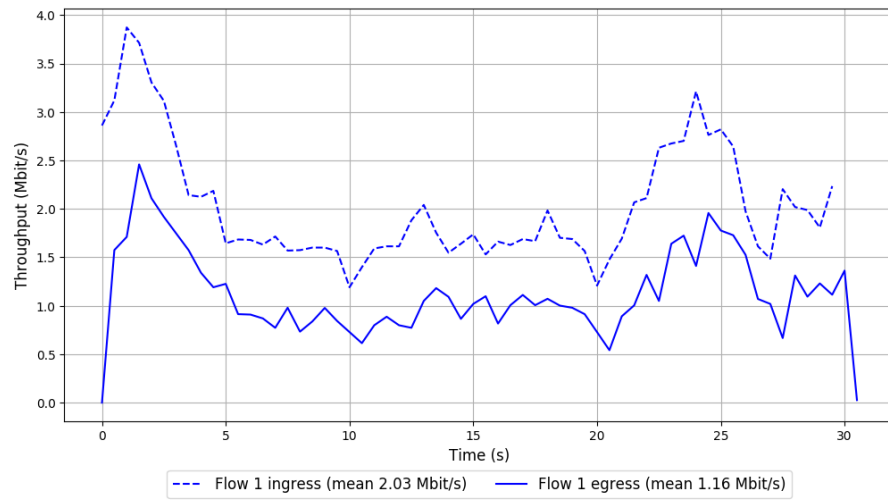


Run 5: Statistics of FillP

Start at: 2019-08-26 19:28:02  
End at: 2019-08-26 19:28:32  
Local clock offset: -4.118 ms  
Remote clock offset: -1.524 ms

# Below is generated by plot.py at 2019-08-26 19:59:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.16 Mbit/s  
95th percentile per-packet one-way delay: 12.164 ms  
Loss rate: 42.78%  
-- Flow 1:  
Average throughput: 1.16 Mbit/s  
95th percentile per-packet one-way delay: 12.164 ms  
Loss rate: 42.78%

## Run 5: Report of FillP — Data Link

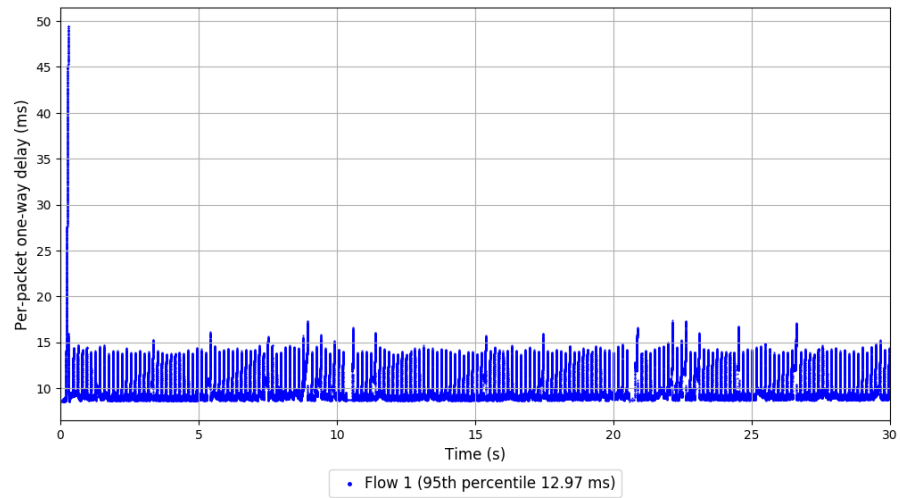
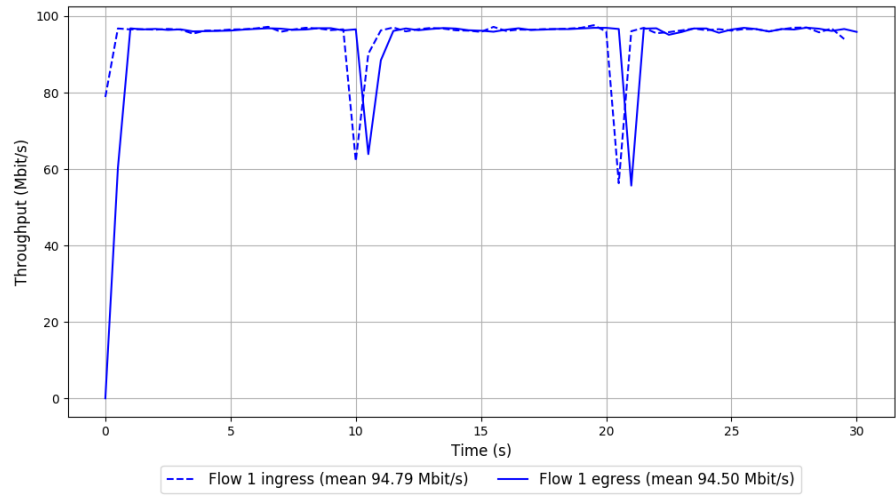


Run 1: Statistics of FillP-Sheep

Start at: 2019-08-26 17:52:12  
End at: 2019-08-26 17:52:42  
Local clock offset: -17.198 ms  
Remote clock offset: 0.143 ms

# Below is generated by plot.py at 2019-08-26 19:59:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.50 Mbit/s  
95th percentile per-packet one-way delay: 12.968 ms  
Loss rate: 0.30%  
-- Flow 1:  
Average throughput: 94.50 Mbit/s  
95th percentile per-packet one-way delay: 12.968 ms  
Loss rate: 0.30%

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

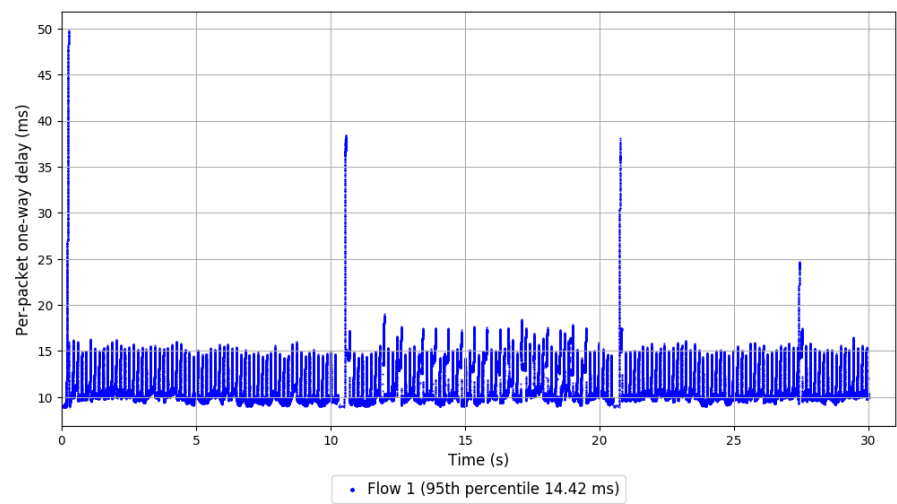
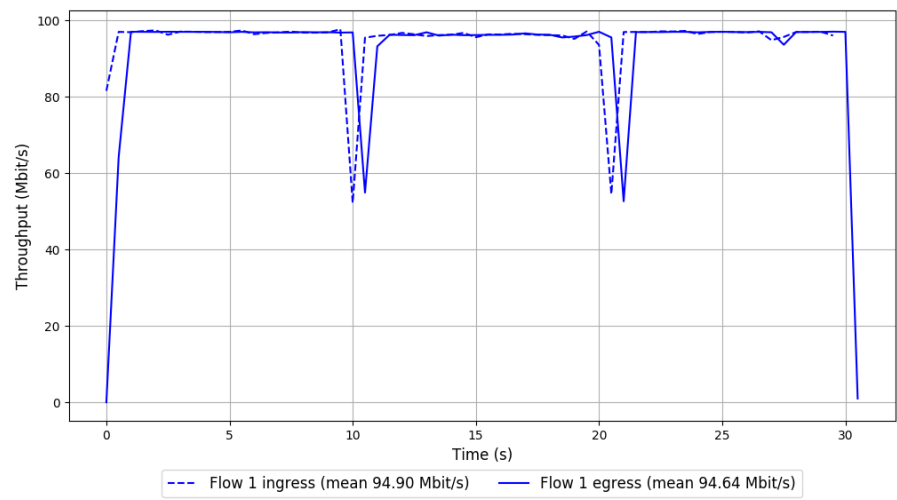


Run 2: Statistics of FillP-Sheep

Start at: 2019-08-26 18:20:15  
End at: 2019-08-26 18:20:45  
Local clock offset: -18.259 ms  
Remote clock offset: -0.435 ms

# Below is generated by plot.py at 2019-08-26 19:59:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.64 Mbit/s  
95th percentile per-packet one-way delay: 14.420 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 94.64 Mbit/s  
95th percentile per-packet one-way delay: 14.420 ms  
Loss rate: 0.27%

Run 2: Report of FillP-Sheep — Data Link

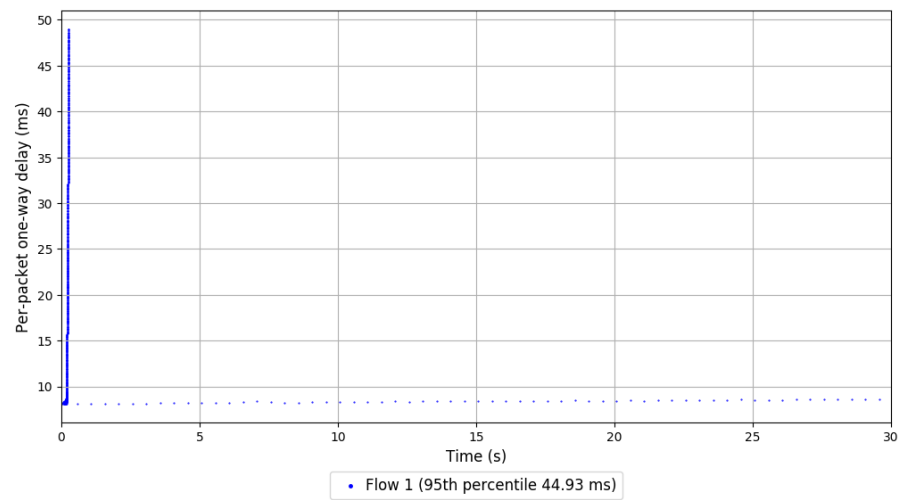
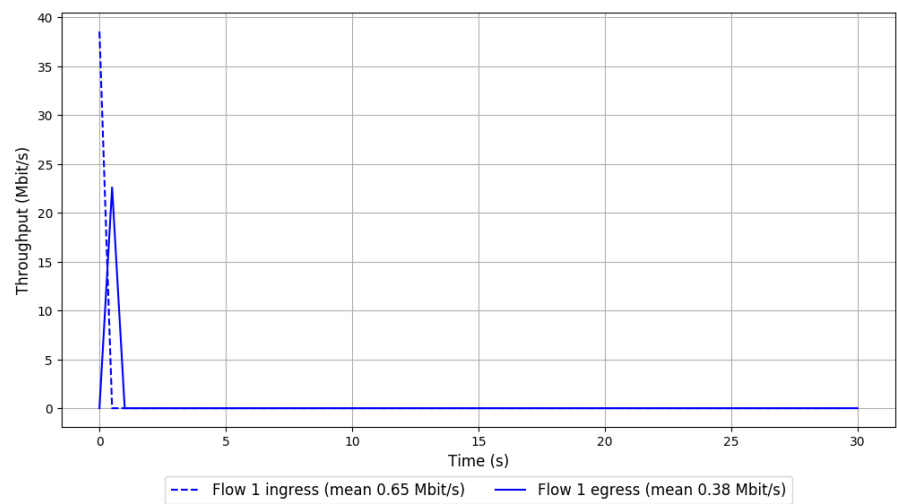


Run 3: Statistics of FillP-Sheep

Start at: 2019-08-26 18:48:04  
End at: 2019-08-26 18:48:34  
Local clock offset: -11.829 ms  
Remote clock offset: -2.393 ms

# Below is generated by plot.py at 2019-08-26 19:59:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.38 Mbit/s  
95th percentile per-packet one-way delay: 44.931 ms  
Loss rate: 41.25%  
-- Flow 1:  
Average throughput: 0.38 Mbit/s  
95th percentile per-packet one-way delay: 44.931 ms  
Loss rate: 41.25%

Run 3: Report of FillP-Sheep — Data Link

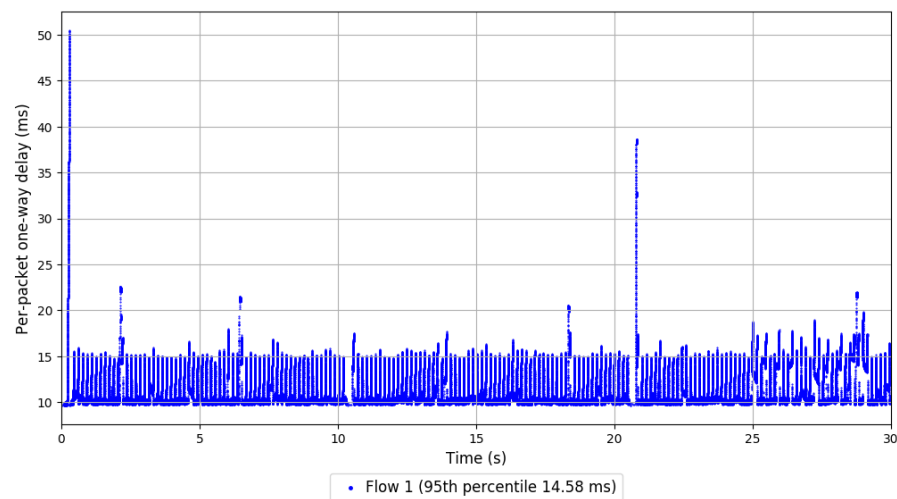
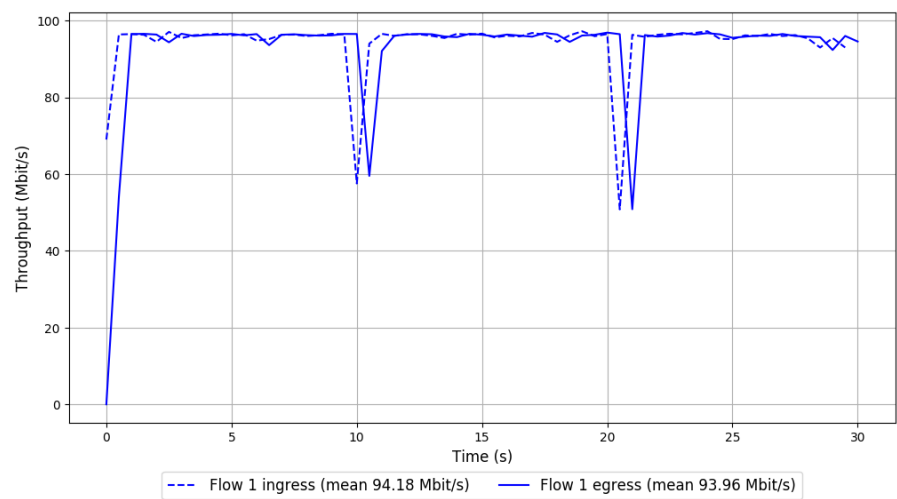


Run 4: Statistics of FillP-Sheep

Start at: 2019-08-26 19:15:30  
End at: 2019-08-26 19:16:00  
Local clock offset: -2.419 ms  
Remote clock offset: -1.656 ms

# Below is generated by plot.py at 2019-08-26 19:59:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 93.96 Mbit/s  
95th percentile per-packet one-way delay: 14.578 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 93.96 Mbit/s  
95th percentile per-packet one-way delay: 14.578 ms  
Loss rate: 0.24%

Run 4: Report of FillP-Sheep — Data Link

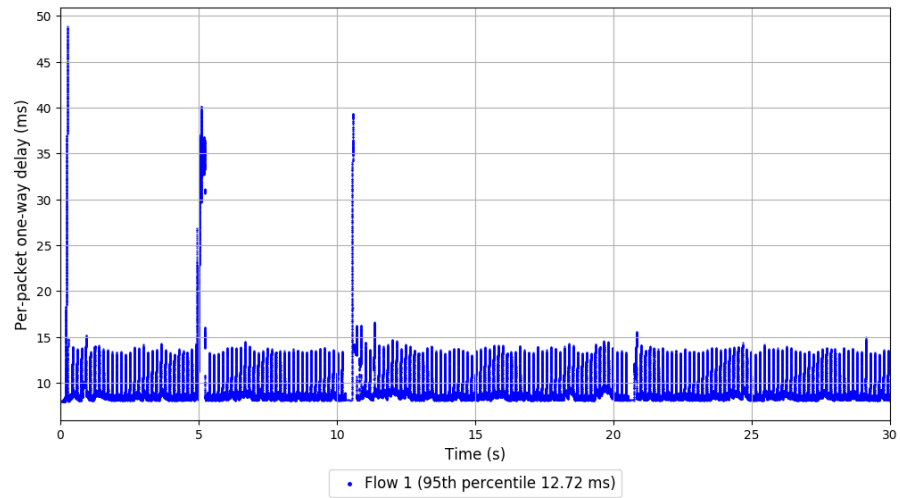
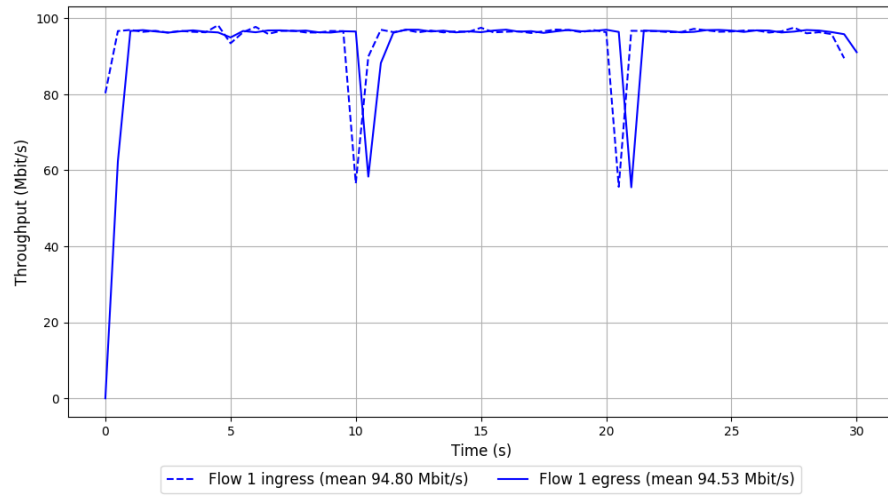


Run 5: Statistics of FillP-Sheep

Start at: 2019-08-26 19:43:06  
End at: 2019-08-26 19:43:36  
Local clock offset: -4.035 ms  
Remote clock offset: -2.594 ms

# Below is generated by plot.py at 2019-08-26 20:00:09  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.53 Mbit/s  
95th percentile per-packet one-way delay: 12.716 ms  
Loss rate: 0.29%  
-- Flow 1:  
Average throughput: 94.53 Mbit/s  
95th percentile per-packet one-way delay: 12.716 ms  
Loss rate: 0.29%

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

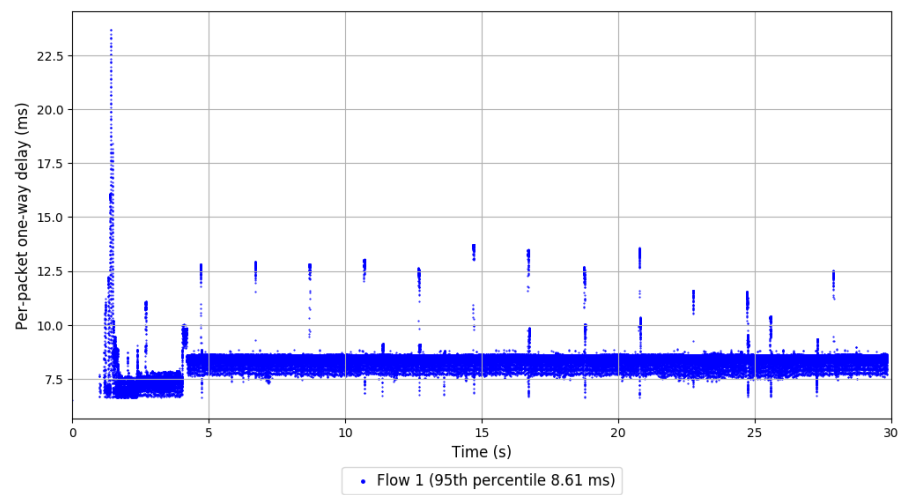
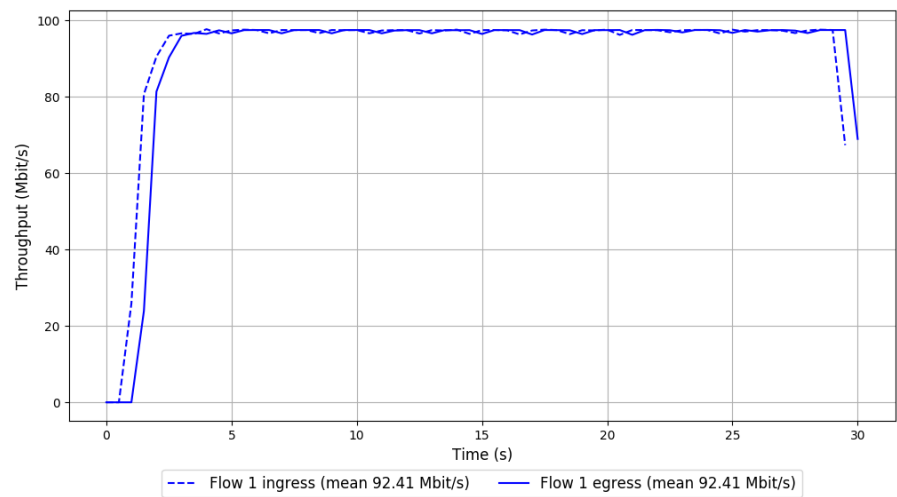


Run 1: Statistics of Indigo

Start at: 2019-08-26 17:42:39  
End at: 2019-08-26 17:43:09  
Local clock offset: -17.011 ms  
Remote clock offset: -1.785 ms

# Below is generated by plot.py at 2019-08-26 20:00:09  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.41 Mbit/s  
95th percentile per-packet one-way delay: 8.609 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 92.41 Mbit/s  
95th percentile per-packet one-way delay: 8.609 ms  
Loss rate: 0.00%

Run 1: Report of Indigo — Data Link

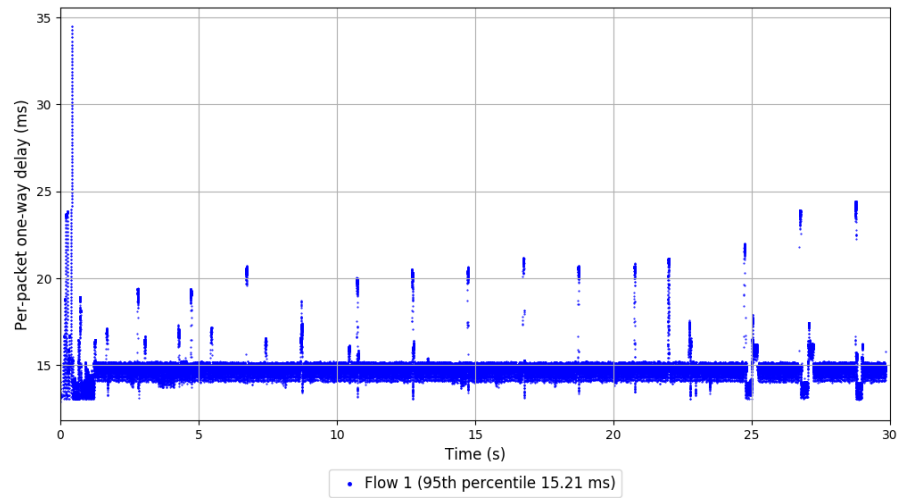
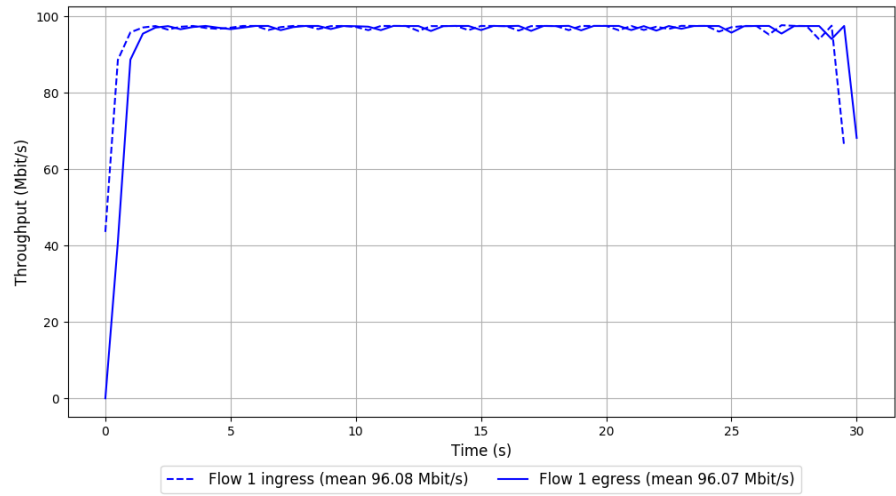


Run 2: Statistics of Indigo

Start at: 2019-08-26 18:10:43  
End at: 2019-08-26 18:11:13  
Local clock offset: -18.126 ms  
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2019-08-26 20:00:17  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.07 Mbit/s  
95th percentile per-packet one-way delay: 15.209 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 96.07 Mbit/s  
95th percentile per-packet one-way delay: 15.209 ms  
Loss rate: 0.01%

## Run 2: Report of Indigo — Data Link

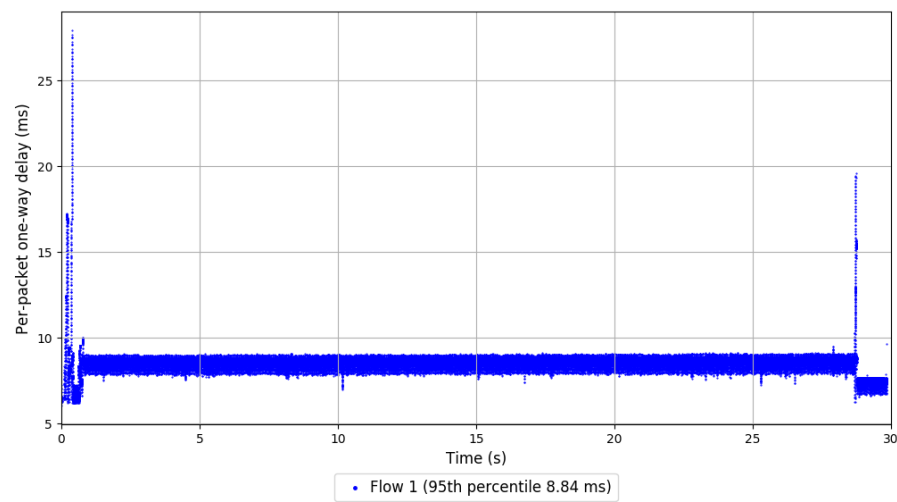
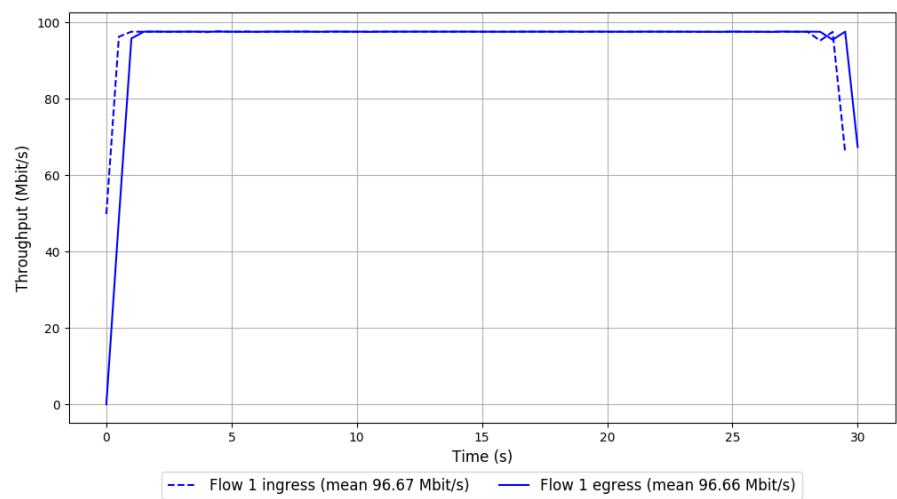


Run 3: Statistics of Indigo

Start at: 2019-08-26 18:38:36  
End at: 2019-08-26 18:39:06  
Local clock offset: -14.631 ms  
Remote clock offset: -2.891 ms

# Below is generated by plot.py at 2019-08-26 20:00:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.66 Mbit/s  
95th percentile per-packet one-way delay: 8.835 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 96.66 Mbit/s  
95th percentile per-packet one-way delay: 8.835 ms  
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link

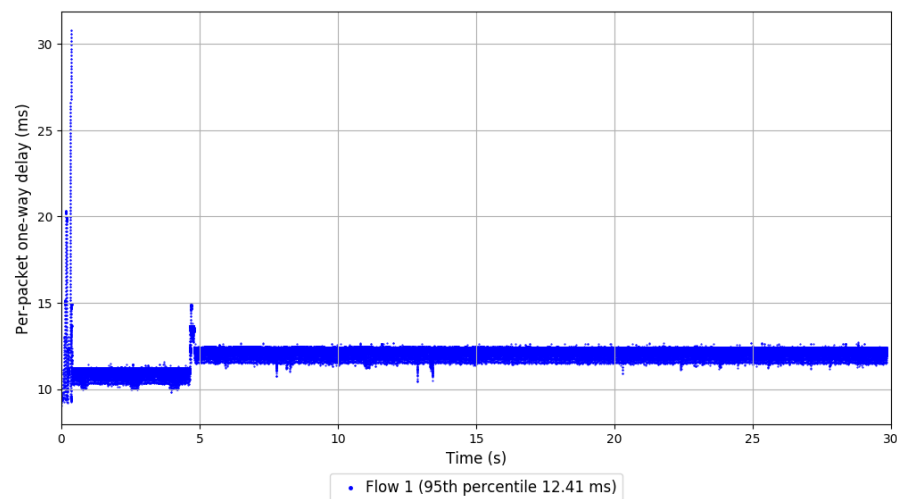
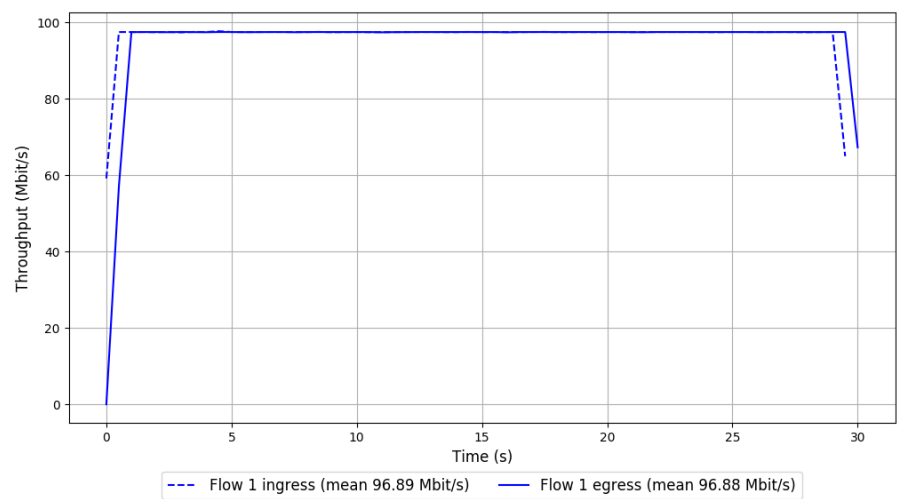


Run 4: Statistics of Indigo

Start at: 2019-08-26 19:06:08  
End at: 2019-08-26 19:06:38  
Local clock offset: -2.503 ms  
Remote clock offset: -0.155 ms

# Below is generated by plot.py at 2019-08-26 20:00:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.88 Mbit/s  
95th percentile per-packet one-way delay: 12.413 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 96.88 Mbit/s  
95th percentile per-packet one-way delay: 12.413 ms  
Loss rate: 0.00%

Run 4: Report of Indigo — Data Link

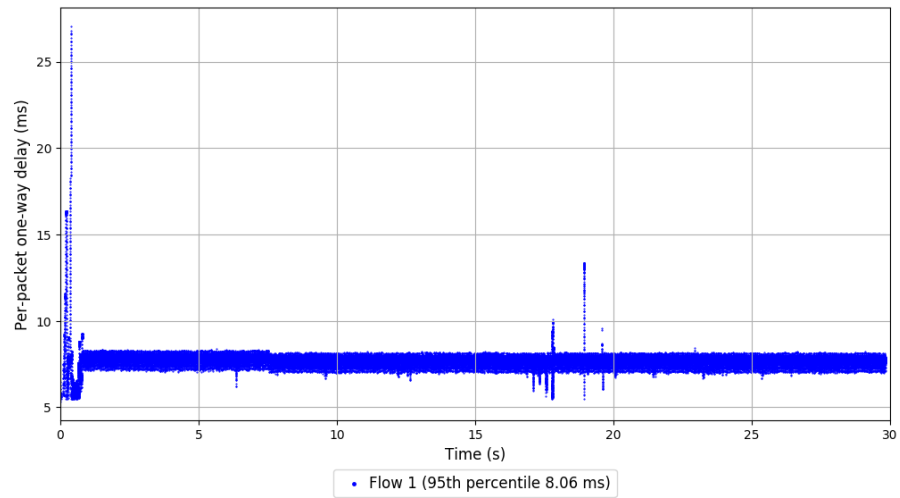
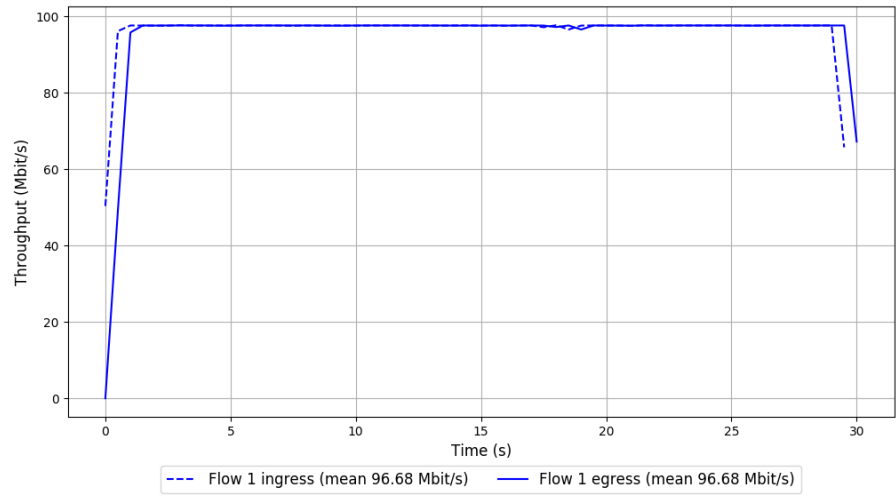


Run 5: Statistics of Indigo

Start at: 2019-08-26 19:33:41  
End at: 2019-08-26 19:34:11  
Local clock offset: -2.499 ms  
Remote clock offset: -3.154 ms

# Below is generated by plot.py at 2019-08-26 20:00:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.68 Mbit/s  
95th percentile per-packet one-way delay: 8.061 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 96.68 Mbit/s  
95th percentile per-packet one-way delay: 8.061 ms  
Loss rate: 0.00%

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

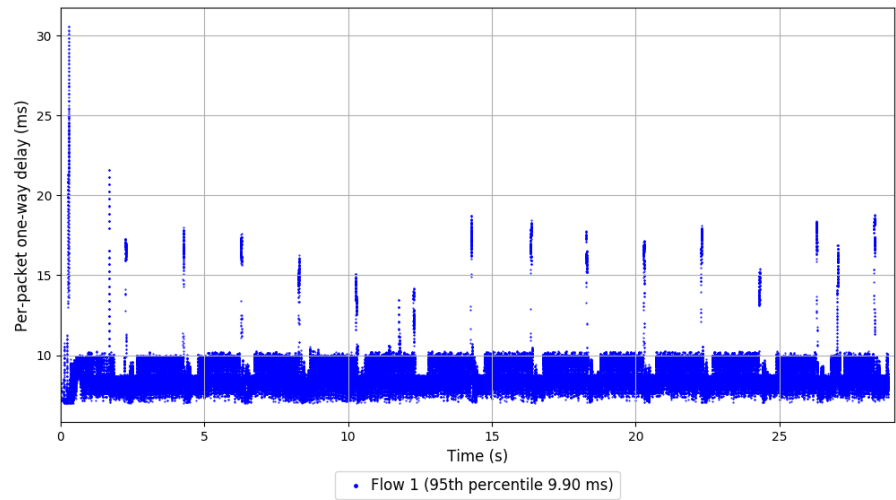
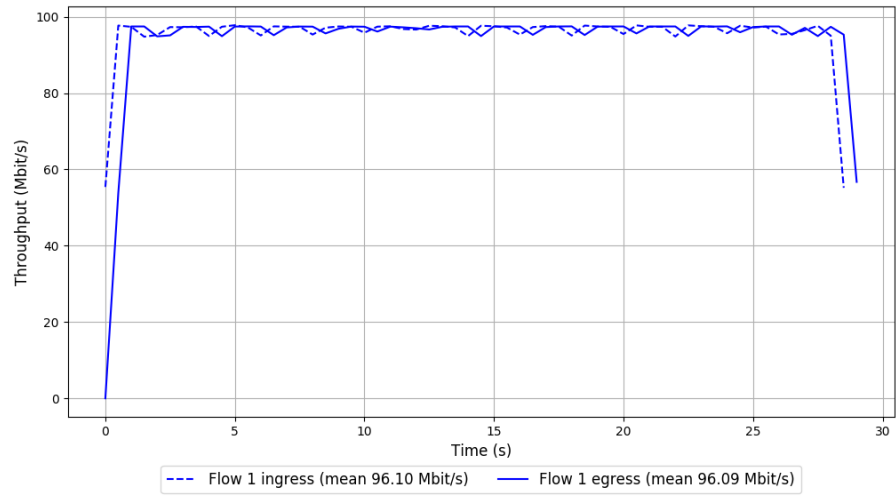


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-08-26 17:57:52  
End at: 2019-08-26 17:58:22  
Local clock offset: -17.414 ms  
Remote clock offset: -2.385 ms

# Below is generated by plot.py at 2019-08-26 20:00:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.09 Mbit/s  
95th percentile per-packet one-way delay: 9.903 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 96.09 Mbit/s  
95th percentile per-packet one-way delay: 9.903 ms  
Loss rate: 0.00%

### Run 1: Report of Indigo-MusesC3 — Data Link

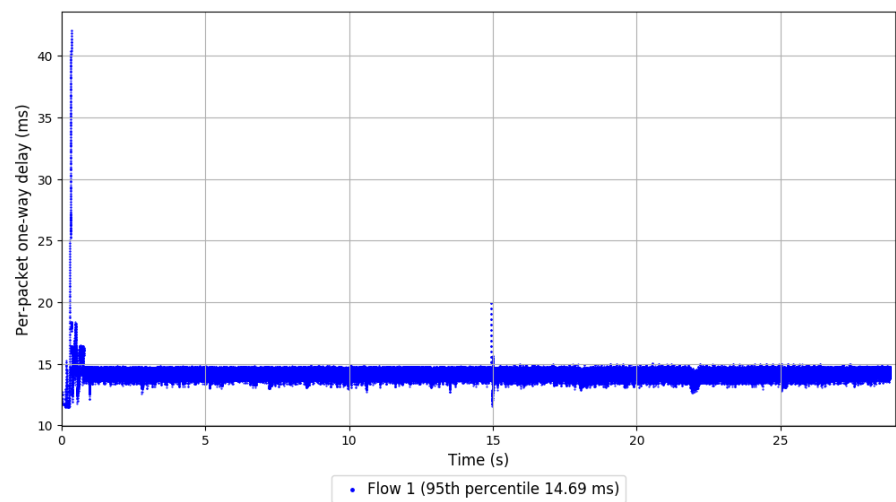
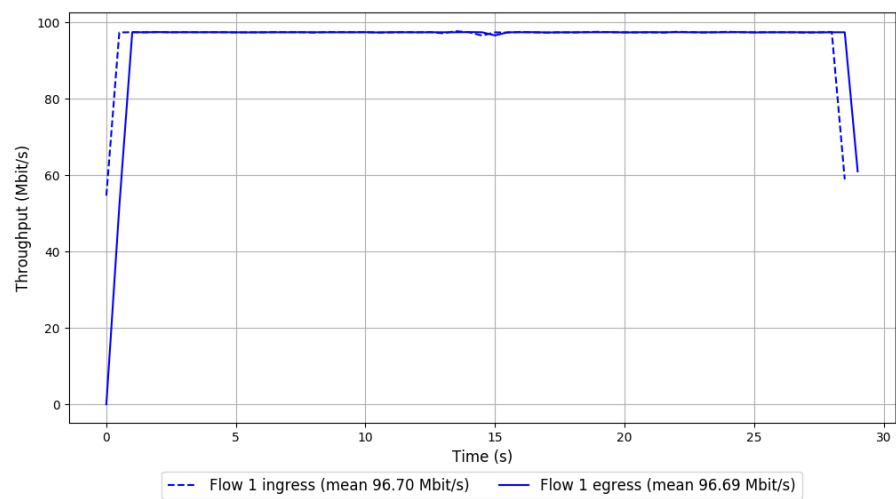


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-08-26 18:25:50  
End at: 2019-08-26 18:26:20  
Local clock offset: -17.71 ms  
Remote clock offset: -0.437 ms

# Below is generated by plot.py at 2019-08-26 20:00:43  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.69 Mbit/s  
95th percentile per-packet one-way delay: 14.692 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 96.69 Mbit/s  
95th percentile per-packet one-way delay: 14.692 ms  
Loss rate: 0.01%

Run 2: Report of Indigo-MusesC3 — Data Link

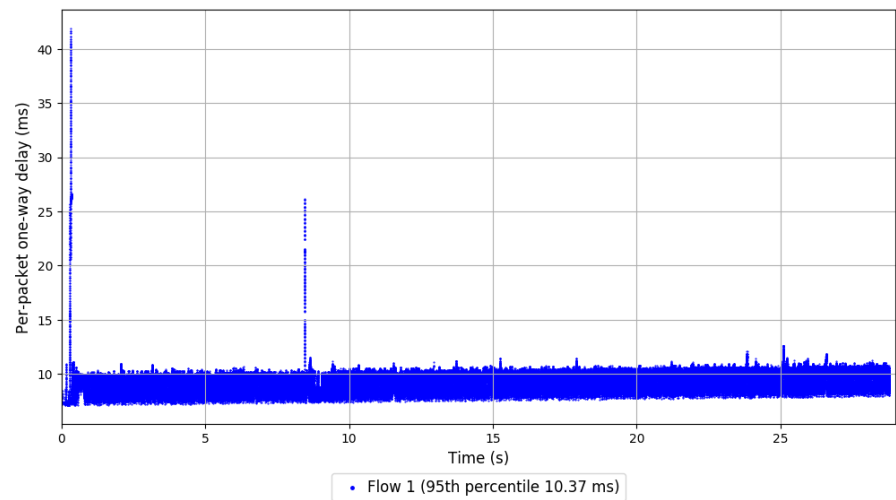
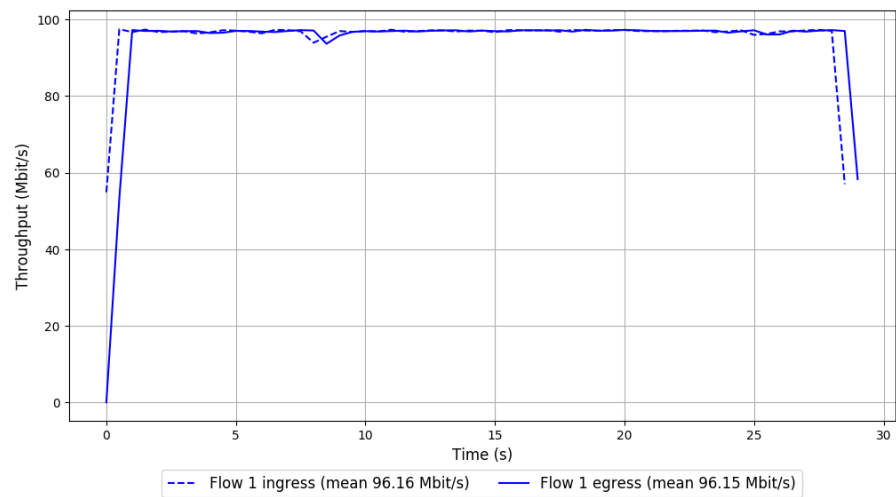


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-08-26 18:53:35  
End at: 2019-08-26 18:54:05  
Local clock offset: -4.537 ms  
Remote clock offset: -2.055 ms

# Below is generated by plot.py at 2019-08-26 20:01:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.15 Mbit/s  
95th percentile per-packet one-way delay: 10.367 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 96.15 Mbit/s  
95th percentile per-packet one-way delay: 10.367 ms  
Loss rate: 0.01%

Run 3: Report of Indigo-MusesC3 — Data Link

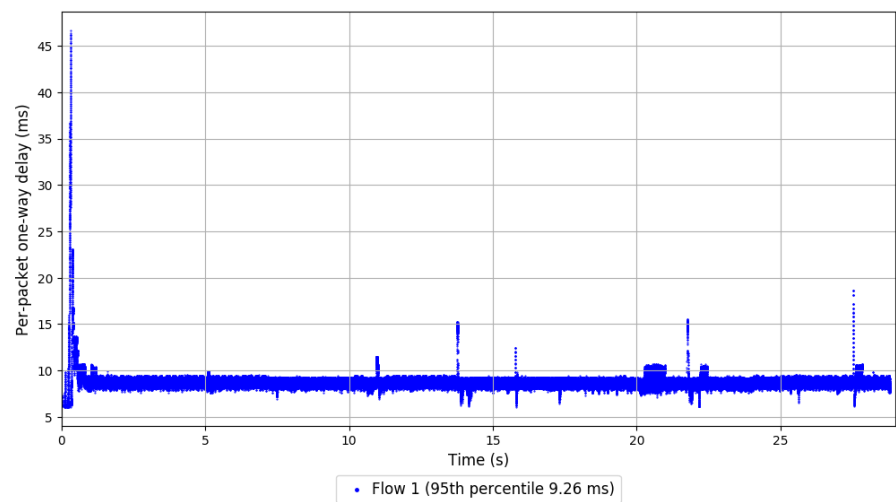
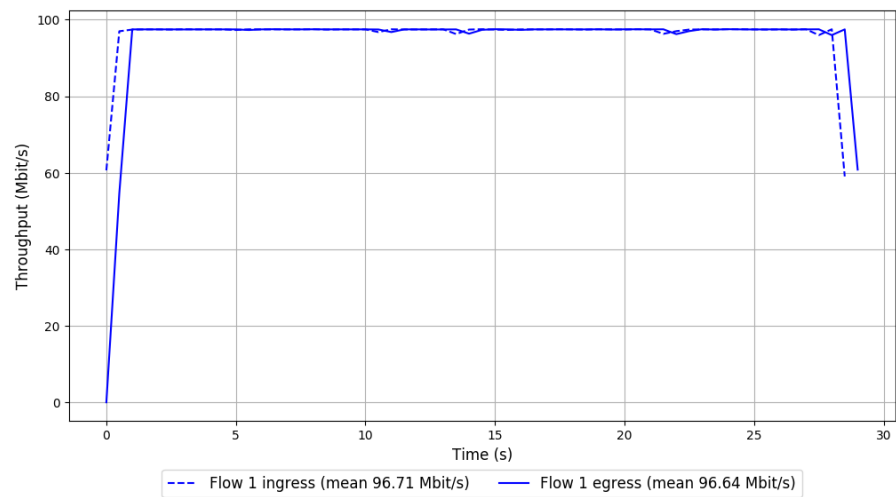


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-08-26 19:21:04  
End at: 2019-08-26 19:21:34  
Local clock offset: -2.978 ms  
Remote clock offset: -2.855 ms

# Below is generated by plot.py at 2019-08-26 20:01:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.64 Mbit/s  
95th percentile per-packet one-way delay: 9.257 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 96.64 Mbit/s  
95th percentile per-packet one-way delay: 9.257 ms  
Loss rate: 0.07%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-08-26 19:48:43

End at: 2019-08-26 19:49:13

Local clock offset: -3.344 ms

Remote clock offset: -3.04 ms

# Below is generated by plot.py at 2019-08-26 20:01:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.63 Mbit/s

95th percentile per-packet one-way delay: 9.889 ms

Loss rate: 0.00%

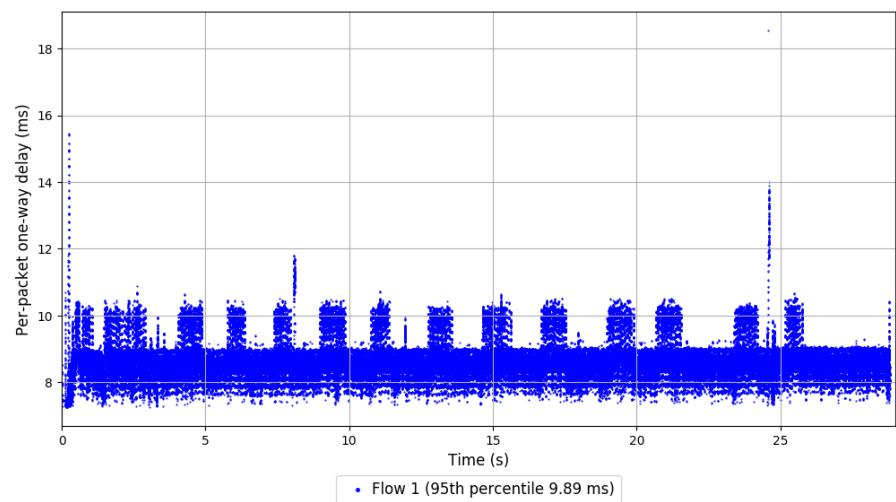
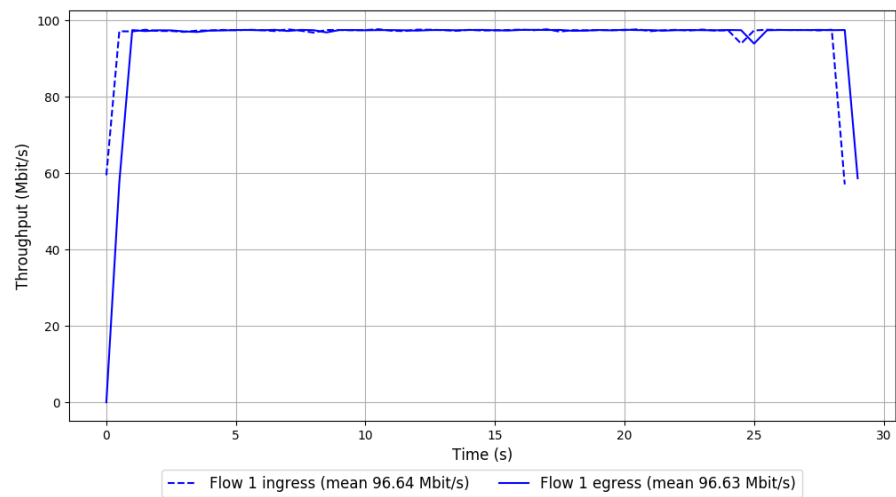
-- Flow 1:

Average throughput: 96.63 Mbit/s

95th percentile per-packet one-way delay: 9.889 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesC3 — Data Link

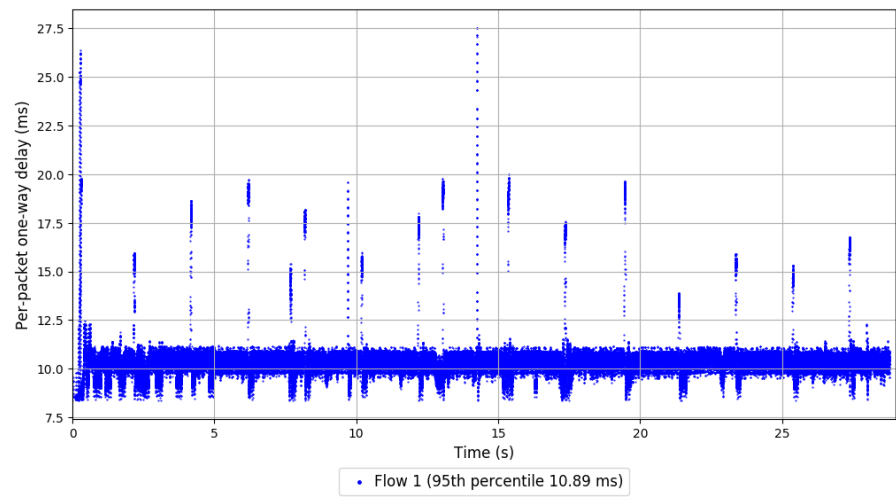
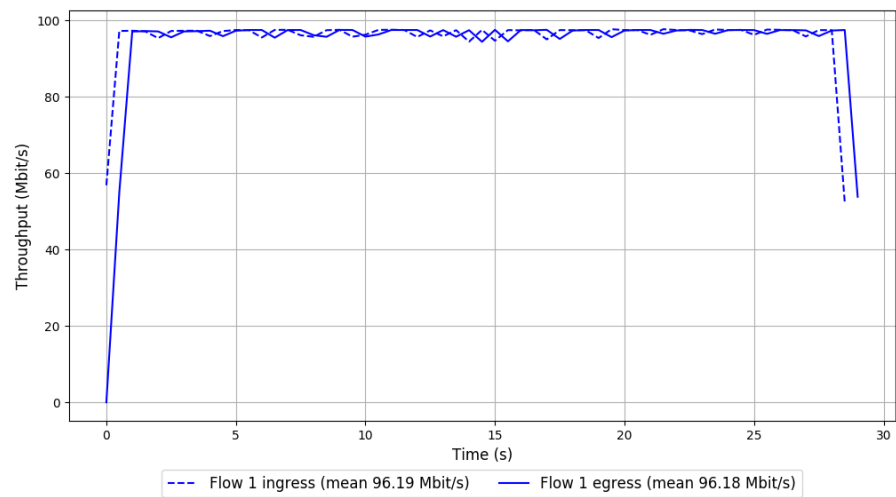


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-08-26 17:48:41  
End at: 2019-08-26 17:49:11  
Local clock offset: -15.681 ms  
Remote clock offset: -1.647 ms

# Below is generated by plot.py at 2019-08-26 20:01:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.18 Mbit/s  
95th percentile per-packet one-way delay: 10.892 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 96.18 Mbit/s  
95th percentile per-packet one-way delay: 10.892 ms  
Loss rate: 0.01%

Run 1: Report of Indigo-MusesC5 — Data Link

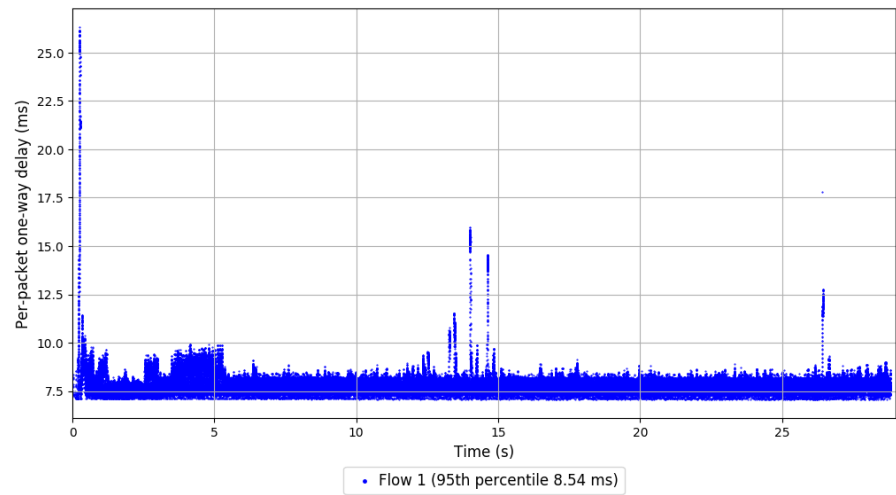
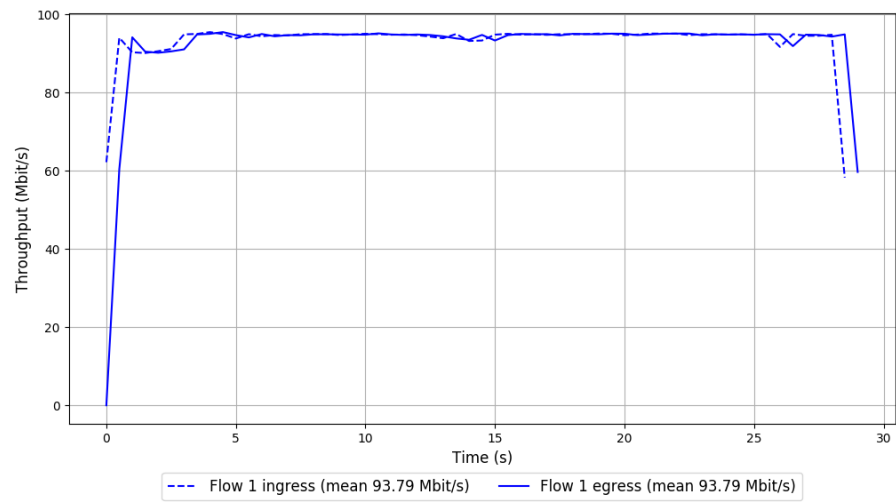


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-08-26 18:16:45  
End at: 2019-08-26 18:17:15  
Local clock offset: -17.384 ms  
Remote clock offset: -1.746 ms

# Below is generated by plot.py at 2019-08-26 20:01:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 93.79 Mbit/s  
95th percentile per-packet one-way delay: 8.544 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 93.79 Mbit/s  
95th percentile per-packet one-way delay: 8.544 ms  
Loss rate: 0.00%

Run 2: Report of Indigo-MusesC5 — Data Link

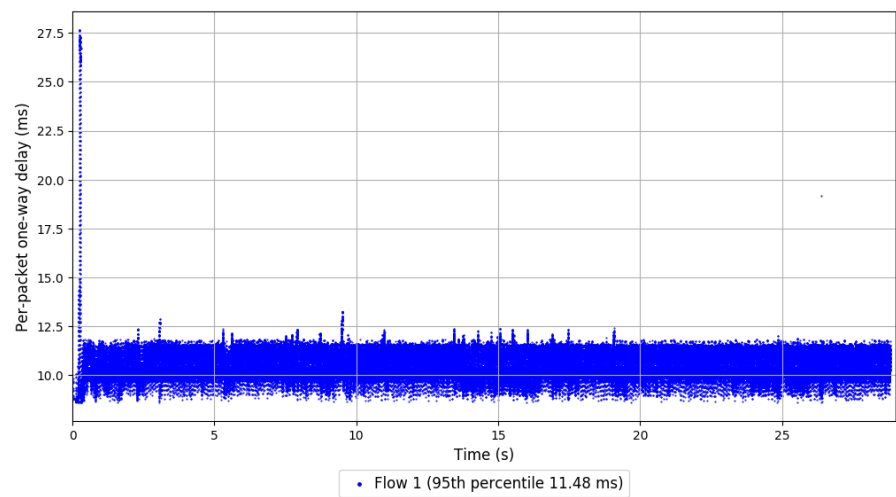
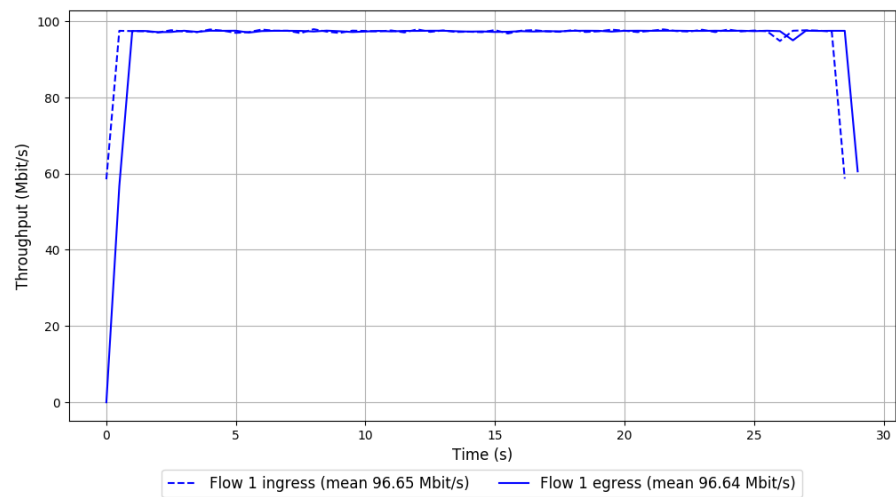


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-08-26 18:44:30  
End at: 2019-08-26 18:45:00  
Local clock offset: -13.903 ms  
Remote clock offset: -0.238 ms

# Below is generated by plot.py at 2019-08-26 20:01:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.64 Mbit/s  
95th percentile per-packet one-way delay: 11.483 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 96.64 Mbit/s  
95th percentile per-packet one-way delay: 11.483 ms  
Loss rate: 0.00%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-08-26 19:12:00

End at: 2019-08-26 19:12:30

Local clock offset: -1.725 ms

Remote clock offset: 0.068 ms

# Below is generated by plot.py at 2019-08-26 20:01:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.79 Mbit/s

95th percentile per-packet one-way delay: 10.734 ms

Loss rate: 0.00%

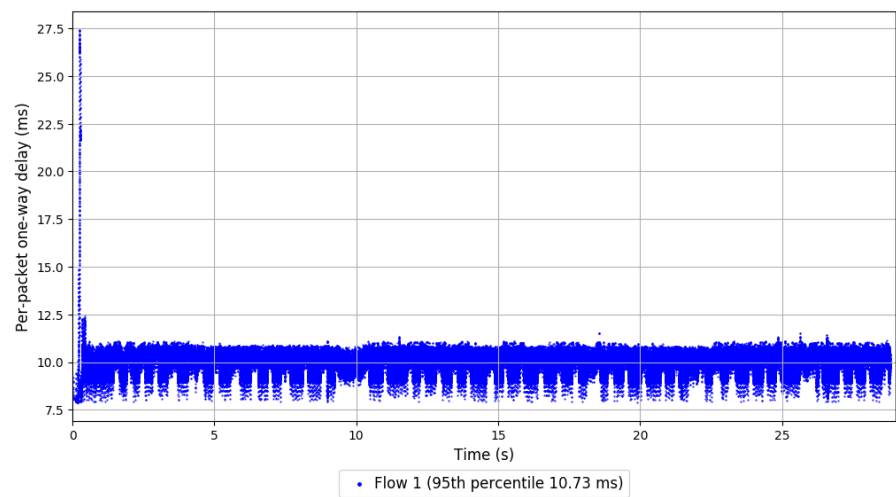
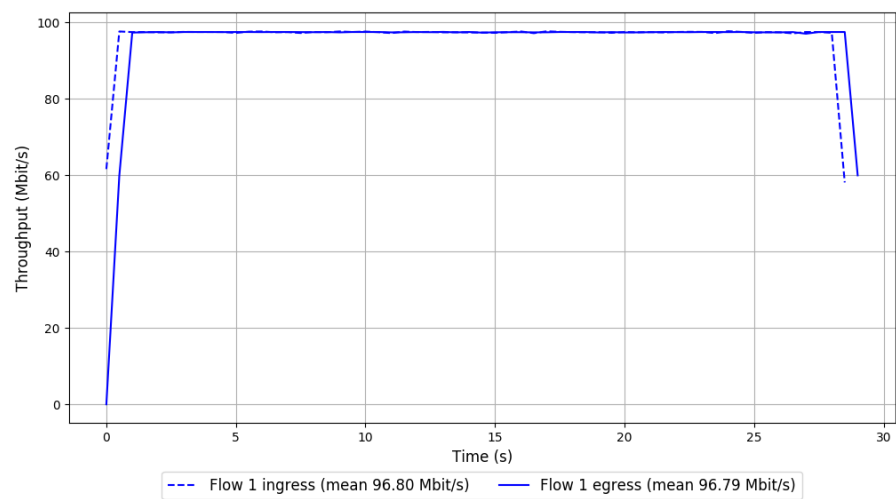
-- Flow 1:

Average throughput: 96.79 Mbit/s

95th percentile per-packet one-way delay: 10.734 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesC5 — Data Link

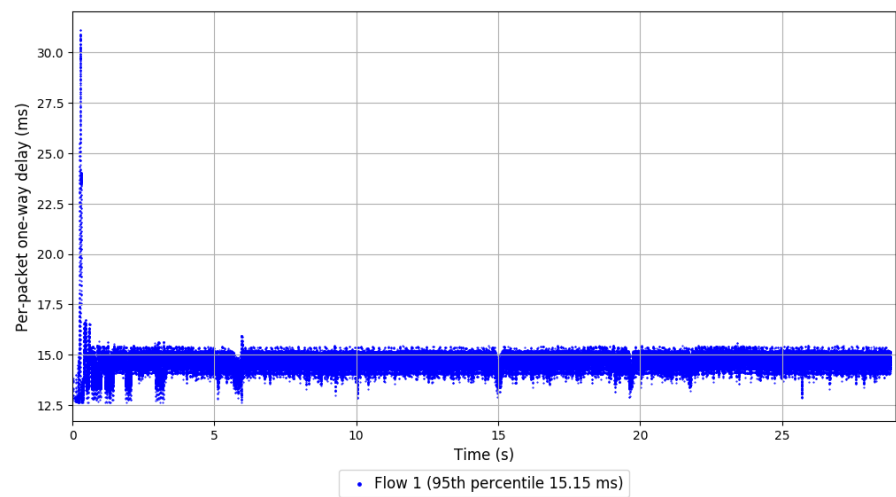
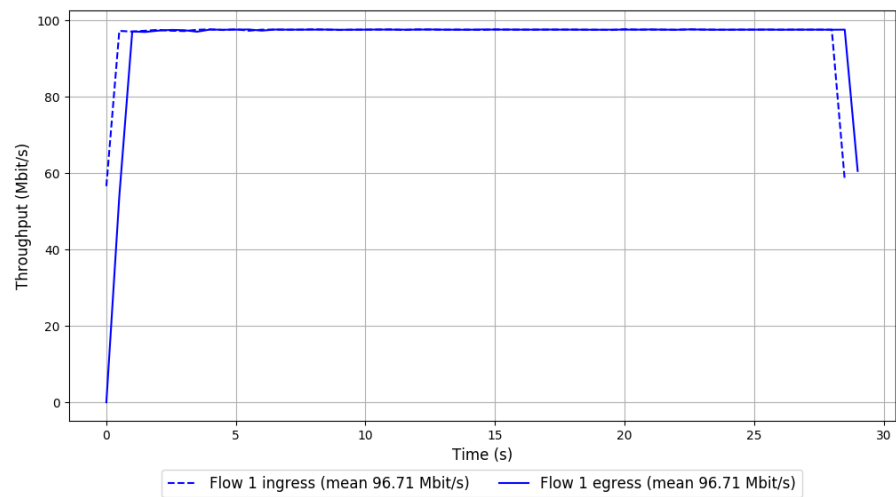


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-08-26 19:39:31  
End at: 2019-08-26 19:40:01  
Local clock offset: -3.166 ms  
Remote clock offset: -0.306 ms

# Below is generated by plot.py at 2019-08-26 20:01:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.71 Mbit/s  
95th percentile per-packet one-way delay: 15.149 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 96.71 Mbit/s  
95th percentile per-packet one-way delay: 15.149 ms  
Loss rate: 0.01%

Run 5: Report of Indigo-MusesC5 — Data Link

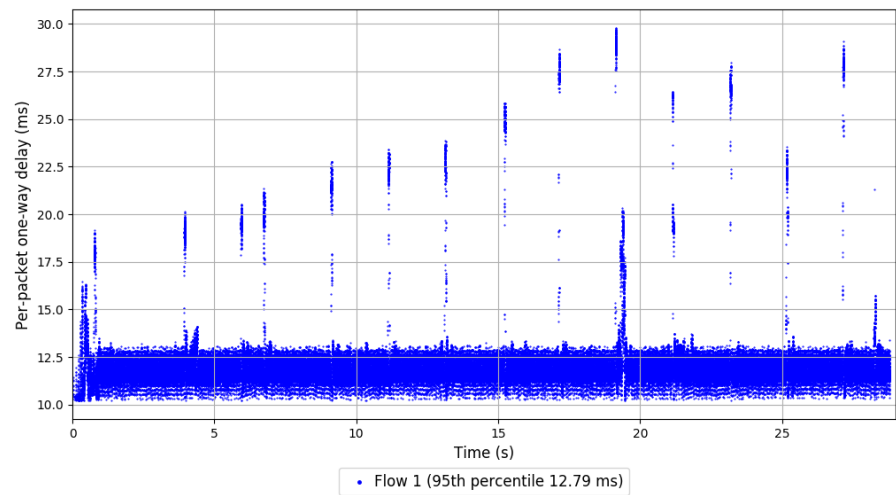
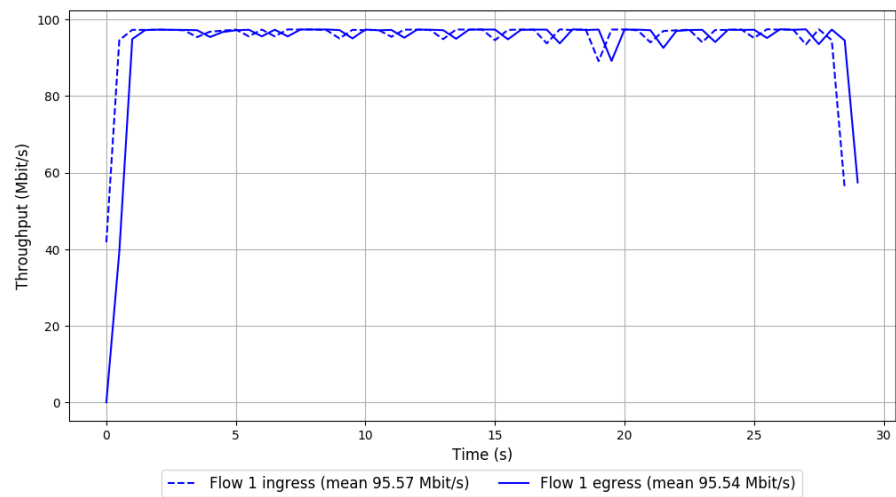


Run 1: Statistics of Indigo-MusesD

Start at: 2019-08-26 17:56:39  
End at: 2019-08-26 17:57:09  
Local clock offset: -16.693 ms  
Remote clock offset: -1.429 ms

# Below is generated by plot.py at 2019-08-26 20:02:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.54 Mbit/s  
95th percentile per-packet one-way delay: 12.794 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 95.54 Mbit/s  
95th percentile per-packet one-way delay: 12.794 ms  
Loss rate: 0.04%

Run 1: Report of Indigo-MusesD — Data Link

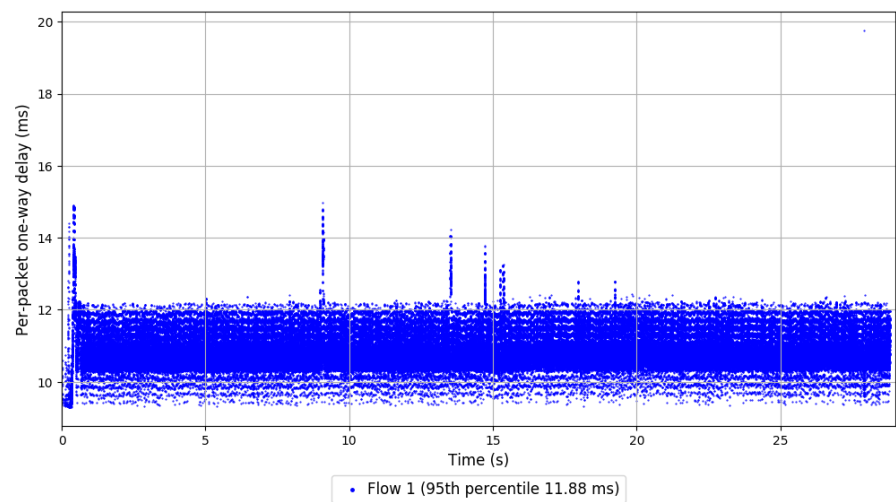
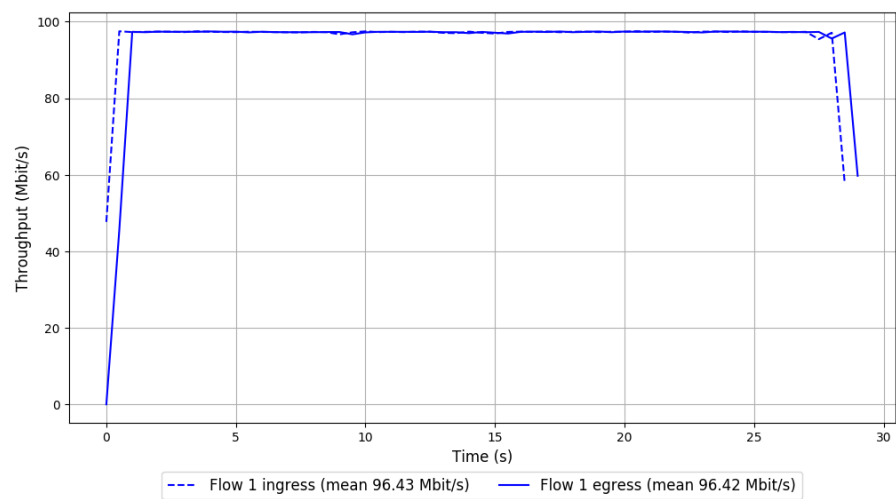


Run 2: Statistics of Indigo-MusesD

Start at: 2019-08-26 18:24:40  
End at: 2019-08-26 18:25:10  
Local clock offset: -18.795 ms  
Remote clock offset: -0.534 ms

# Below is generated by plot.py at 2019-08-26 20:02:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.42 Mbit/s  
95th percentile per-packet one-way delay: 11.878 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 96.42 Mbit/s  
95th percentile per-packet one-way delay: 11.878 ms  
Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link

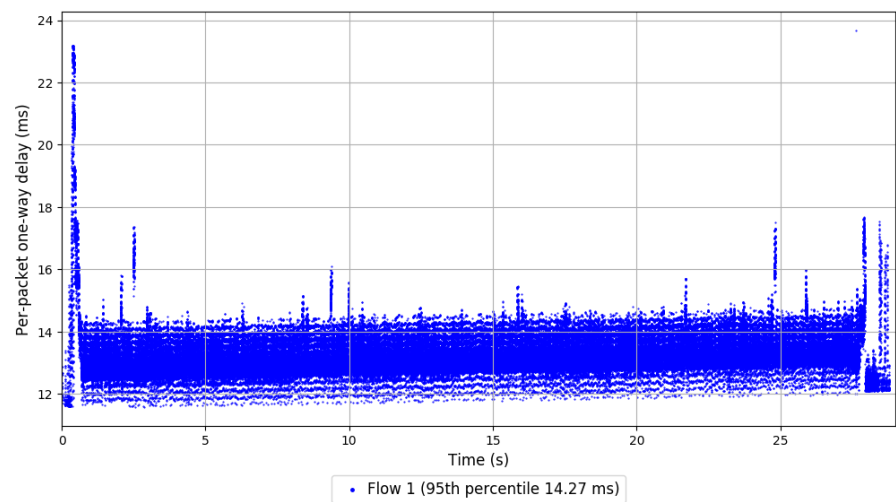
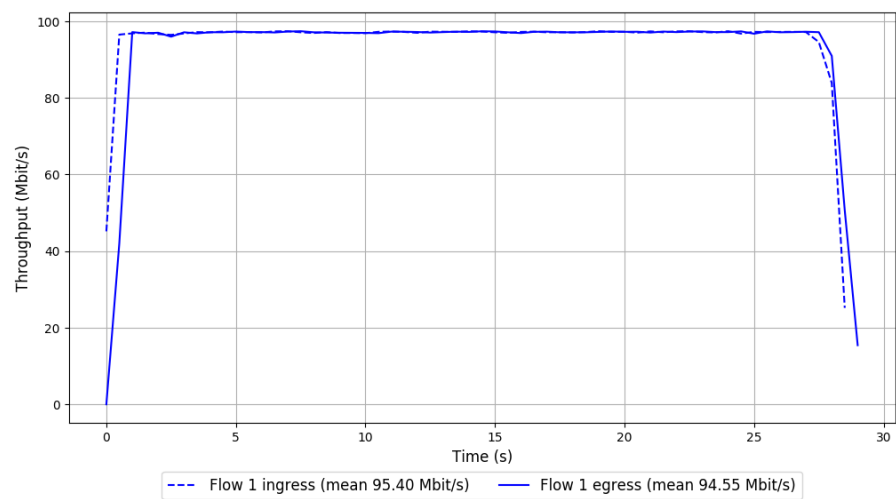


Run 3: Statistics of Indigo-MusesD

Start at: 2019-08-26 18:52:25  
End at: 2019-08-26 18:52:55  
Local clock offset: -8.413 ms  
Remote clock offset: -0.409 ms

# Below is generated by plot.py at 2019-08-26 20:02:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.55 Mbit/s  
95th percentile per-packet one-way delay: 14.273 ms  
Loss rate: 0.90%  
-- Flow 1:  
Average throughput: 94.55 Mbit/s  
95th percentile per-packet one-way delay: 14.273 ms  
Loss rate: 0.90%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-08-26 19:19:55

End at: 2019-08-26 19:20:25

Local clock offset: -2.641 ms

Remote clock offset: -3.186 ms

# Below is generated by plot.py at 2019-08-26 20:02:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.93 Mbit/s

95th percentile per-packet one-way delay: 7.515 ms

Loss rate: 0.00%

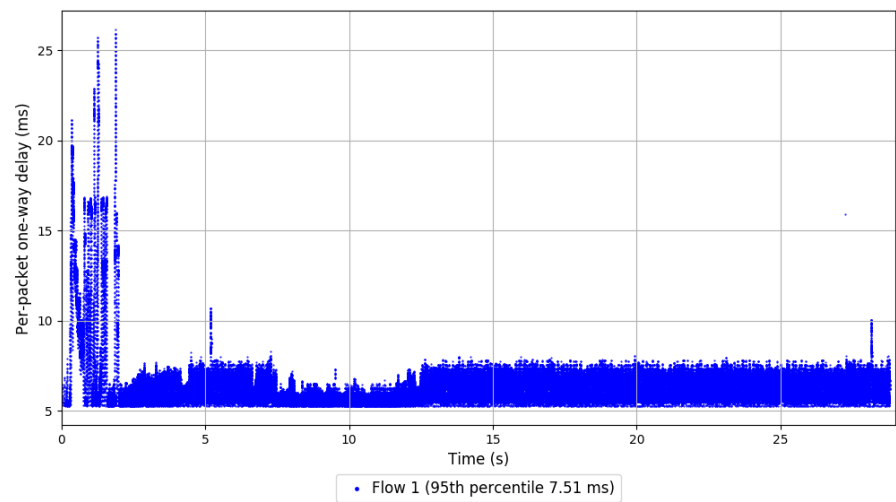
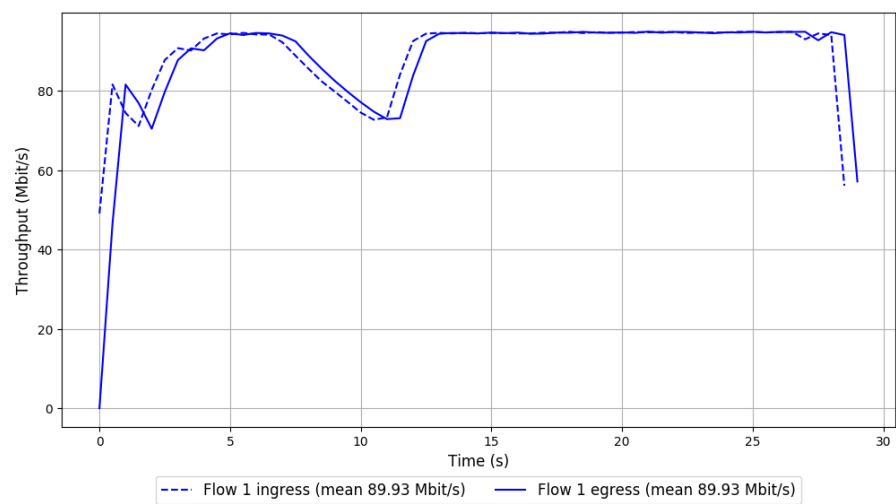
-- Flow 1:

Average throughput: 89.93 Mbit/s

95th percentile per-packet one-way delay: 7.515 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-08-26 19:47:32

End at: 2019-08-26 19:48:02

Local clock offset: -3.334 ms

Remote clock offset: -2.016 ms

# Below is generated by plot.py at 2019-08-26 20:02:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.37 Mbit/s

95th percentile per-packet one-way delay: 10.773 ms

Loss rate: 0.00%

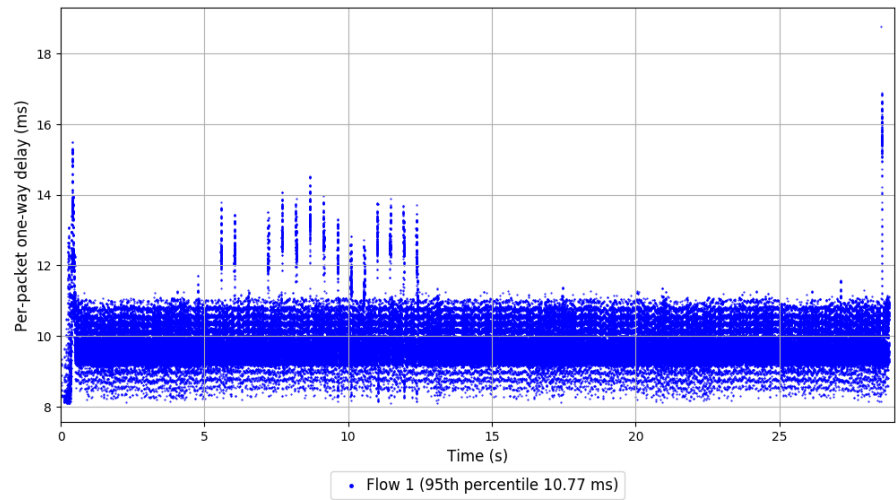
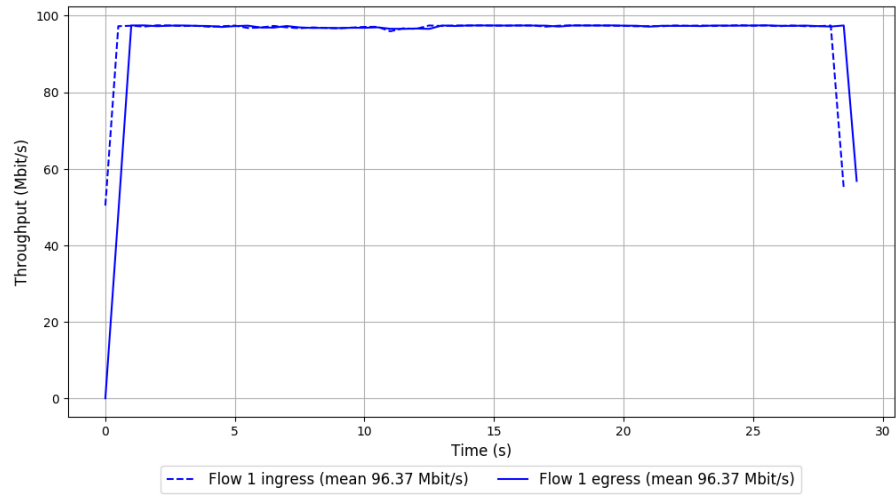
-- Flow 1:

Average throughput: 96.37 Mbit/s

95th percentile per-packet one-way delay: 10.773 ms

Loss rate: 0.00%

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

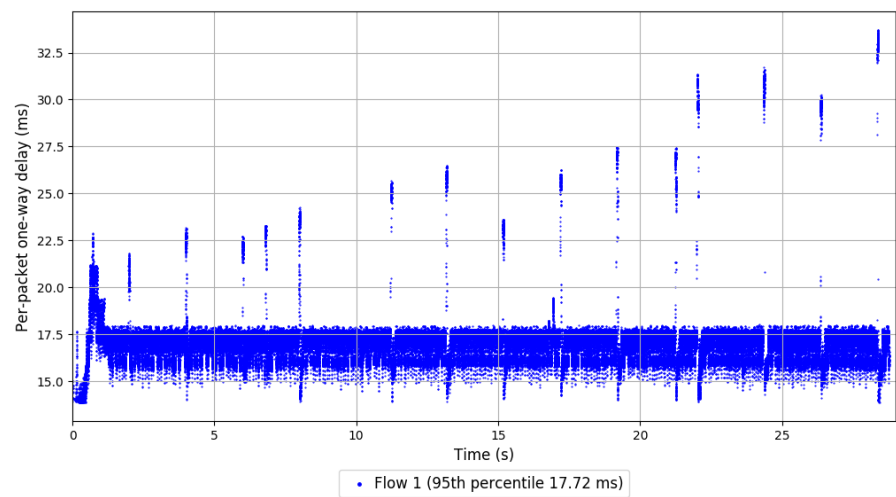
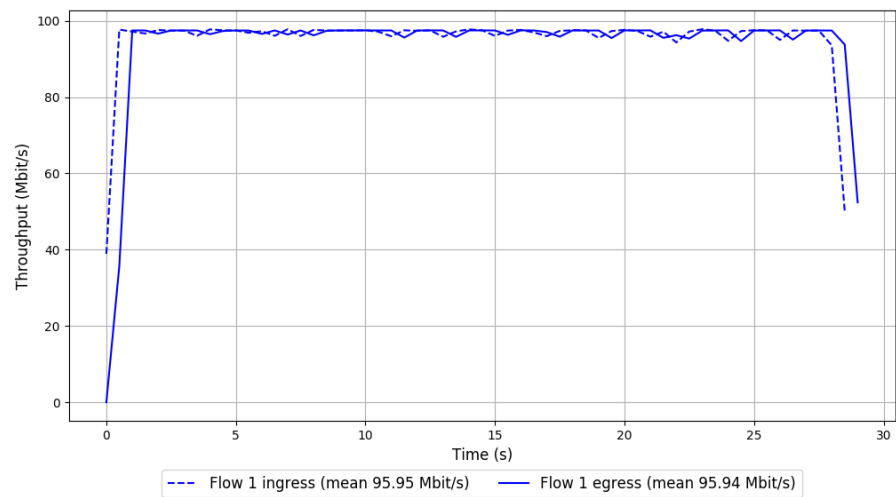


Run 1: Statistics of Indigo-MusesT

Start at: 2019-08-26 17:46:17  
End at: 2019-08-26 17:46:48  
Local clock offset: -17.779 ms  
Remote clock offset: 1.582 ms

# Below is generated by plot.py at 2019-08-26 20:02:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.94 Mbit/s  
95th percentile per-packet one-way delay: 17.720 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 95.94 Mbit/s  
95th percentile per-packet one-way delay: 17.720 ms  
Loss rate: 0.01%

Run 1: Report of Indigo-MusesT — Data Link

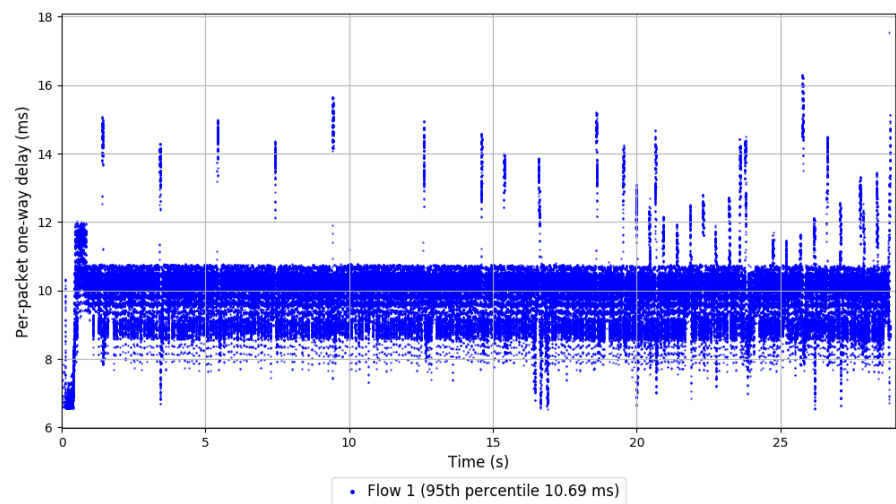
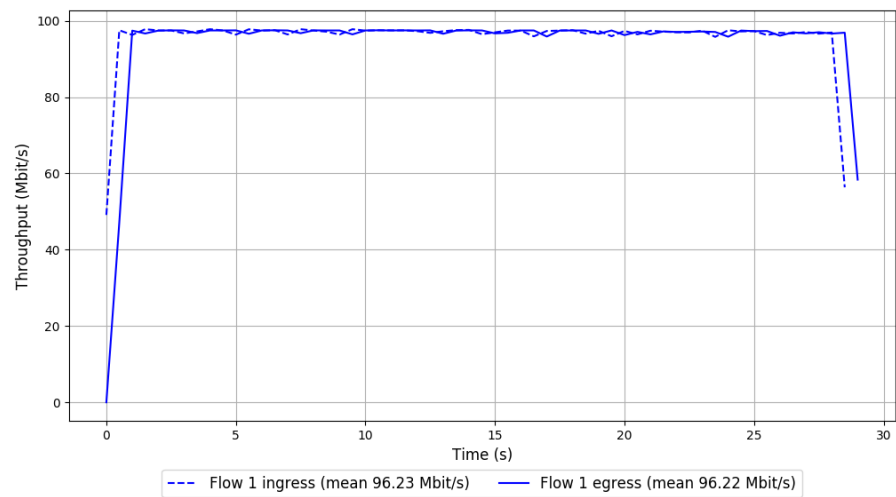


Run 2: Statistics of Indigo-MusesT

Start at: 2019-08-26 18:14:19  
End at: 2019-08-26 18:14:49  
Local clock offset: -16.003 ms  
Remote clock offset: -1.224 ms

# Below is generated by plot.py at 2019-08-26 20:02:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.22 Mbit/s  
95th percentile per-packet one-way delay: 10.685 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 96.22 Mbit/s  
95th percentile per-packet one-way delay: 10.685 ms  
Loss rate: 0.00%

Run 2: Report of Indigo-MusesT — Data Link

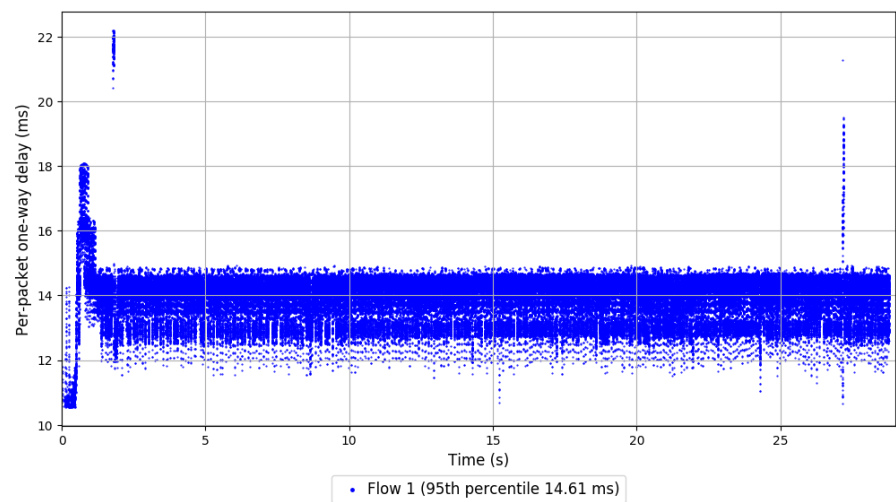
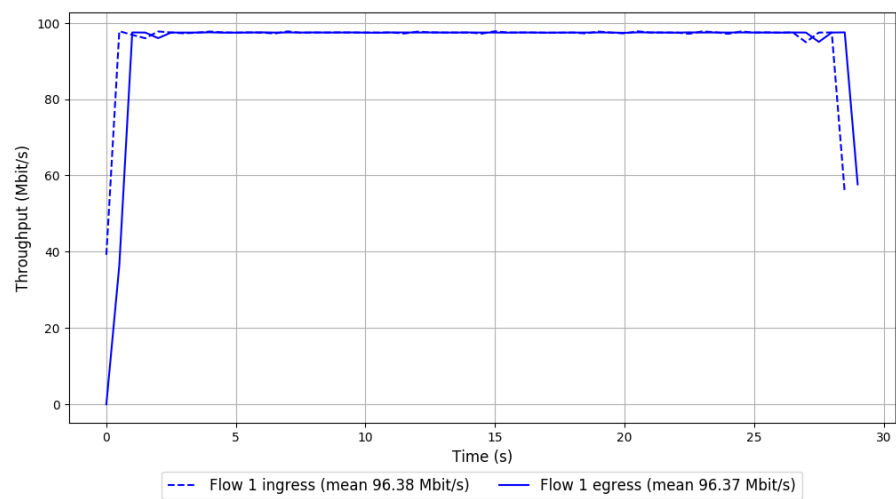


Run 3: Statistics of Indigo-MusesT

Start at: 2019-08-26 18:42:06  
End at: 2019-08-26 18:42:36  
Local clock offset: -14.301 ms  
Remote clock offset: -1.653 ms

# Below is generated by plot.py at 2019-08-26 20:02:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.37 Mbit/s  
95th percentile per-packet one-way delay: 14.610 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 96.37 Mbit/s  
95th percentile per-packet one-way delay: 14.610 ms  
Loss rate: 0.01%

Run 3: Report of Indigo-MusesT — Data Link

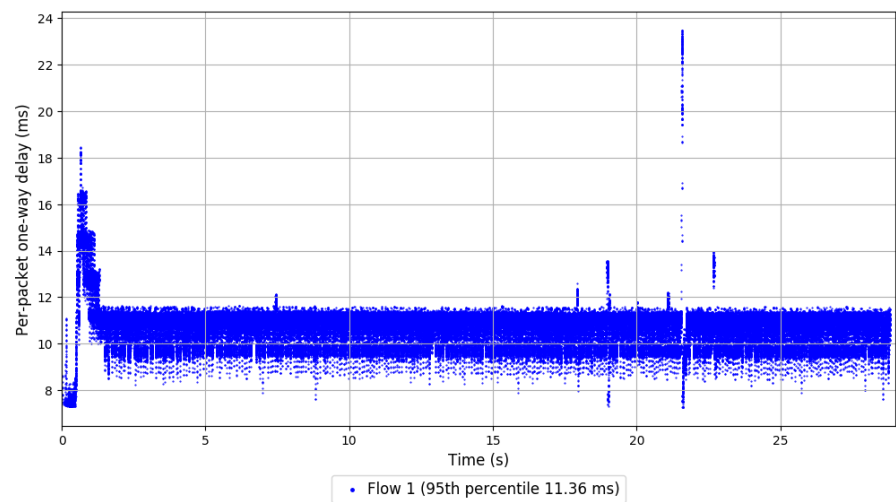
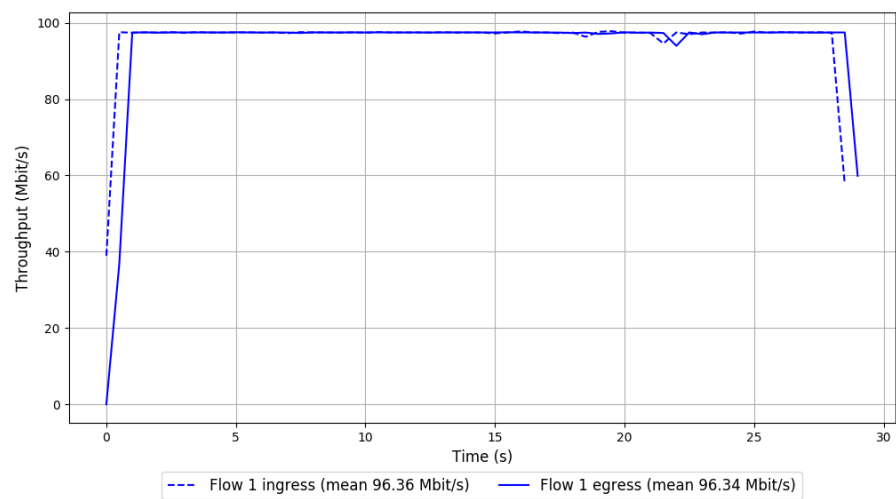


Run 4: Statistics of Indigo-MusesT

Start at: 2019-08-26 19:09:37  
End at: 2019-08-26 19:10:07  
Local clock offset: -2.284 ms  
Remote clock offset: -1.217 ms

# Below is generated by plot.py at 2019-08-26 20:03:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.34 Mbit/s  
95th percentile per-packet one-way delay: 11.357 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 96.34 Mbit/s  
95th percentile per-packet one-way delay: 11.357 ms  
Loss rate: 0.01%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-08-26 19:37:12

End at: 2019-08-26 19:37:42

Local clock offset: -0.717 ms

Remote clock offset: -1.971 ms

# Below is generated by plot.py at 2019-08-26 20:03:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.63 Mbit/s

95th percentile per-packet one-way delay: 12.409 ms

Loss rate: 0.01%

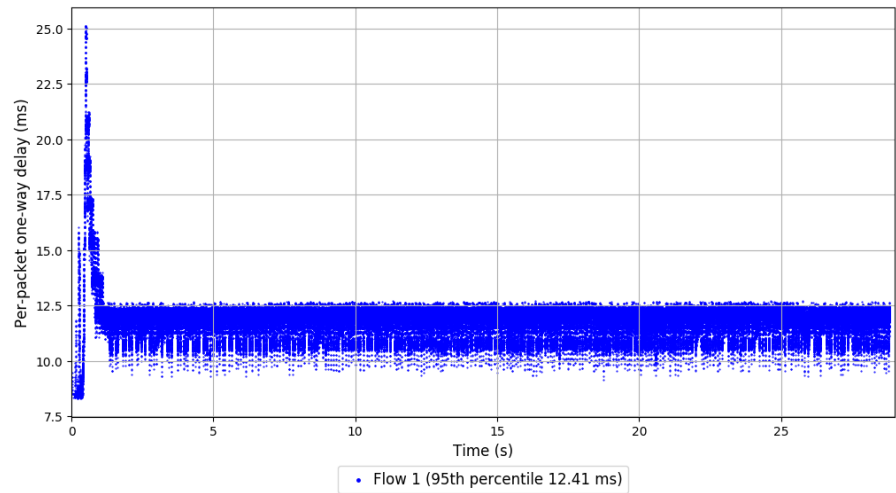
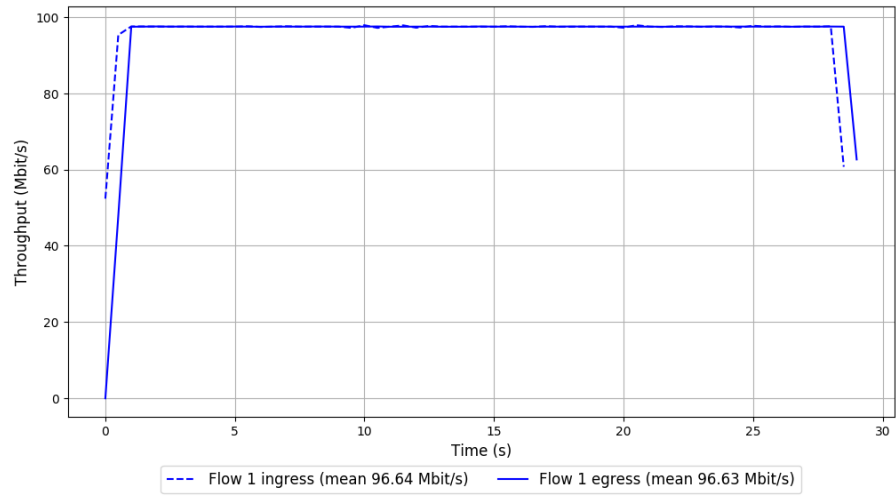
-- Flow 1:

Average throughput: 96.63 Mbit/s

95th percentile per-packet one-way delay: 12.409 ms

Loss rate: 0.01%

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

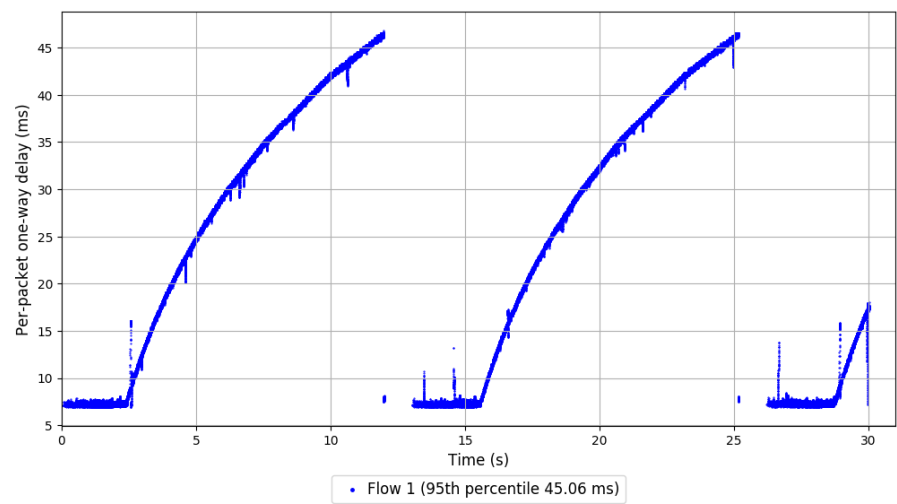
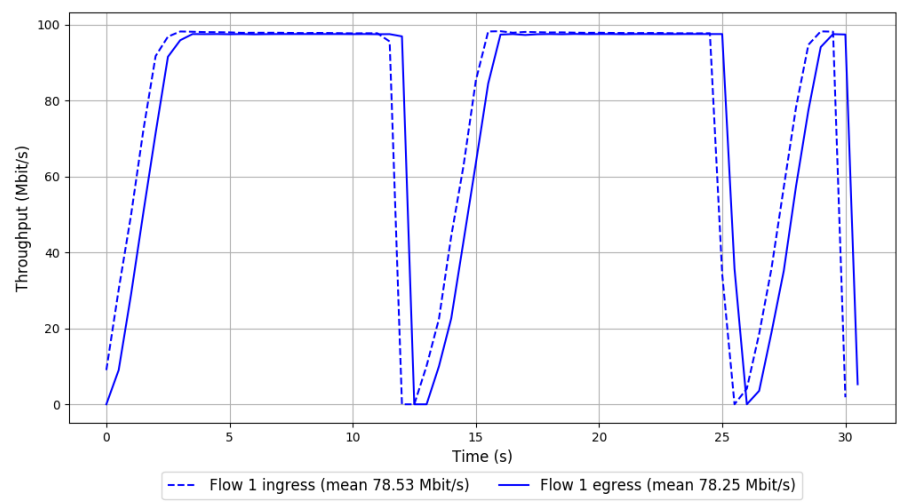


Run 1: Statistics of LEDBAT

Start at: 2019-08-26 17:38:03  
End at: 2019-08-26 17:38:33  
Local clock offset: -17.375 ms  
Remote clock offset: -1.643 ms

# Below is generated by plot.py at 2019-08-26 20:03:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 78.25 Mbit/s  
95th percentile per-packet one-way delay: 45.061 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 78.25 Mbit/s  
95th percentile per-packet one-way delay: 45.061 ms  
Loss rate: 0.32%

Run 1: Report of LEDBAT — Data Link

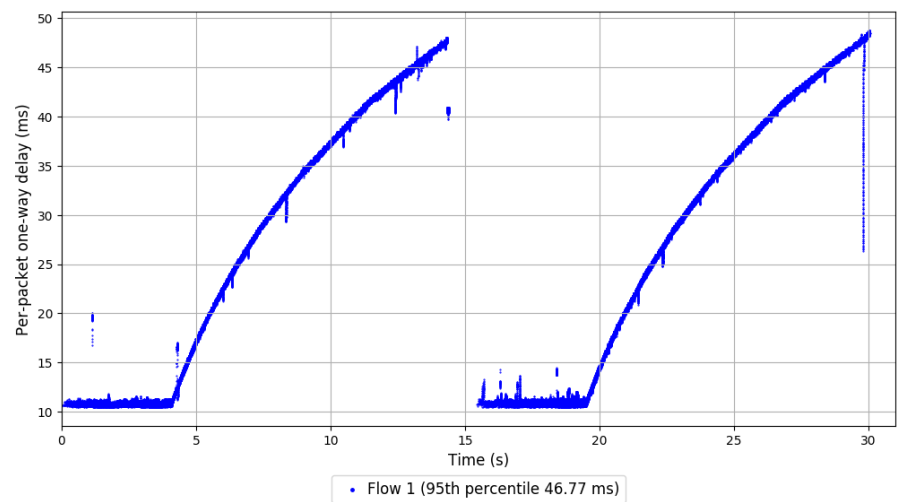
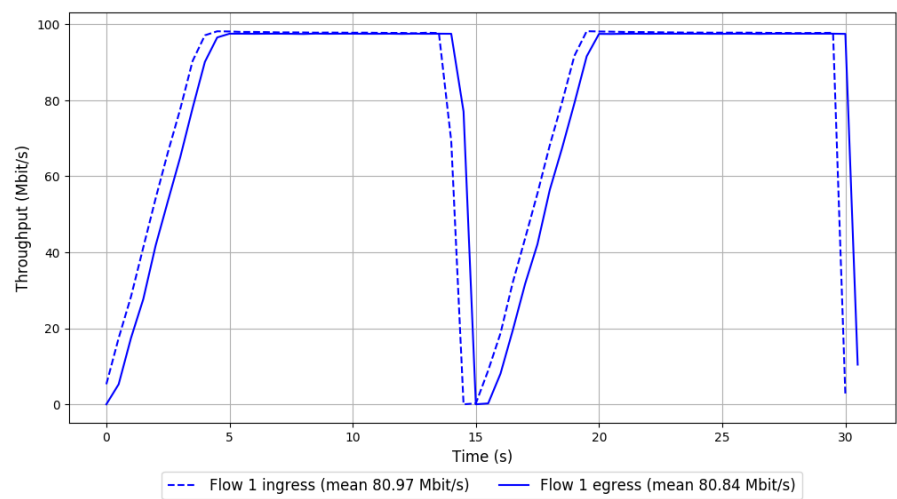


Run 2: Statistics of LEDBAT

Start at: 2019-08-26 18:06:07  
End at: 2019-08-26 18:06:38  
Local clock offset: -16.777 ms  
Remote clock offset: -1.516 ms

# Below is generated by plot.py at 2019-08-26 20:03:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 80.84 Mbit/s  
95th percentile per-packet one-way delay: 46.768 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 80.84 Mbit/s  
95th percentile per-packet one-way delay: 46.768 ms  
Loss rate: 0.06%

Run 2: Report of LEDBAT — Data Link

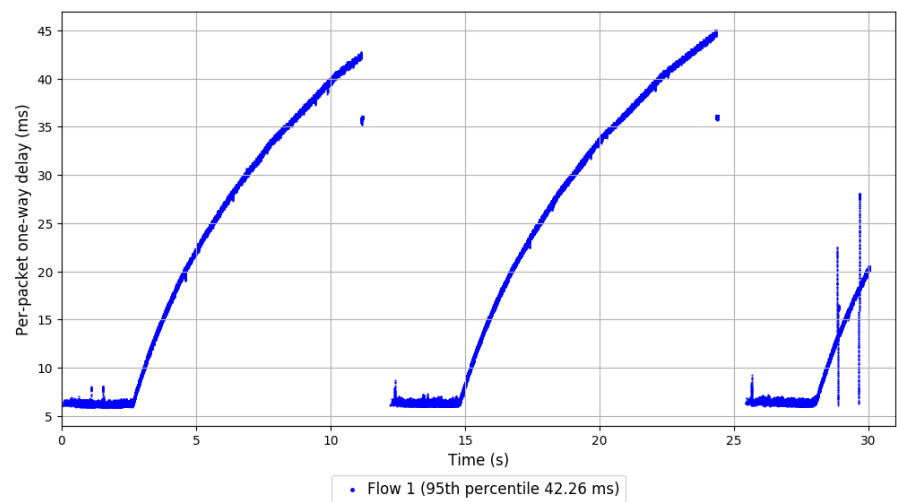
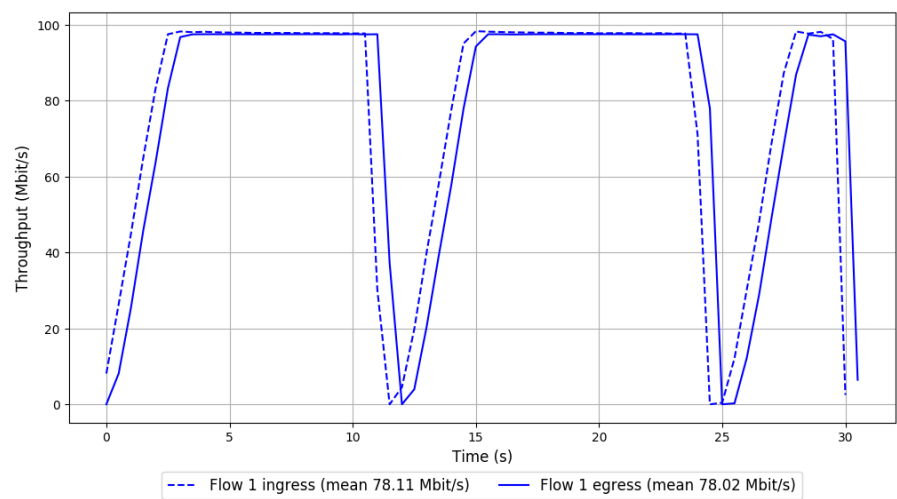


Run 3: Statistics of LEDBAT

Start at: 2019-08-26 18:34:03  
End at: 2019-08-26 18:34:33  
Local clock offset: -14.585 ms  
Remote clock offset: -2.052 ms

# Below is generated by plot.py at 2019-08-26 20:03:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 78.02 Mbit/s  
95th percentile per-packet one-way delay: 42.255 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 78.02 Mbit/s  
95th percentile per-packet one-way delay: 42.255 ms  
Loss rate: 0.06%

Run 3: Report of LEDBAT — Data Link

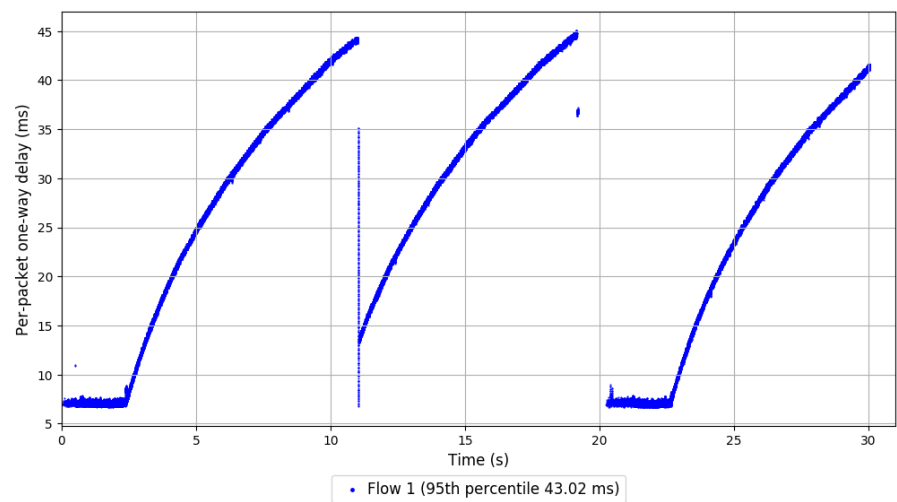
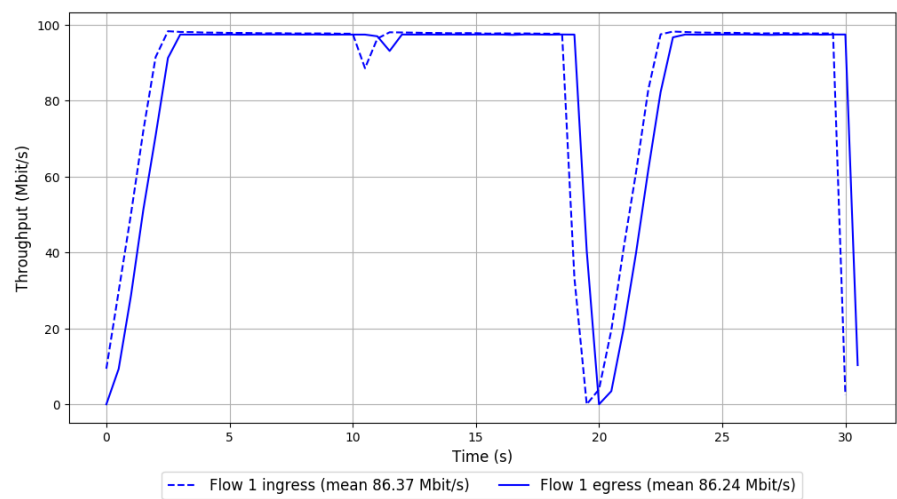


Run 4: Statistics of LEDBAT

Start at: 2019-08-26 19:01:37  
End at: 2019-08-26 19:02:07  
Local clock offset: -0.075 ms  
Remote clock offset: -0.585 ms

# Below is generated by plot.py at 2019-08-26 20:03:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 86.24 Mbit/s  
95th percentile per-packet one-way delay: 43.024 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 86.24 Mbit/s  
95th percentile per-packet one-way delay: 43.024 ms  
Loss rate: 0.04%

Run 4: Report of LEDBAT — Data Link

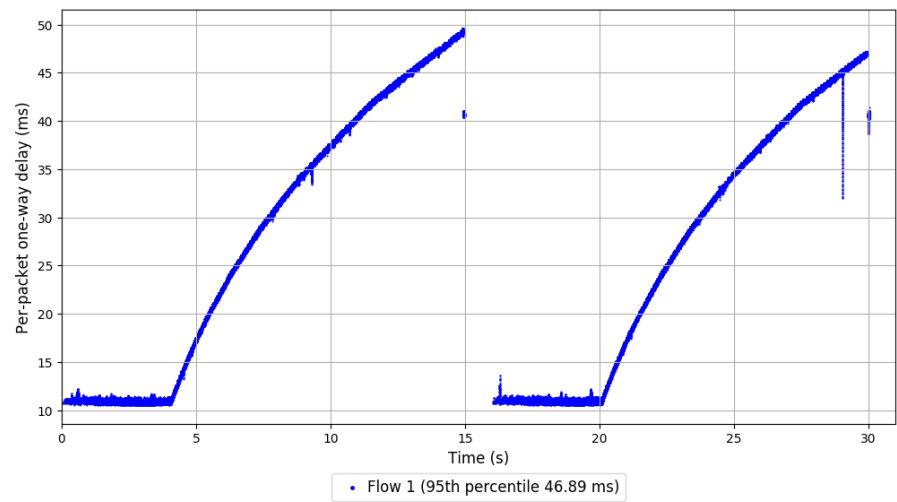
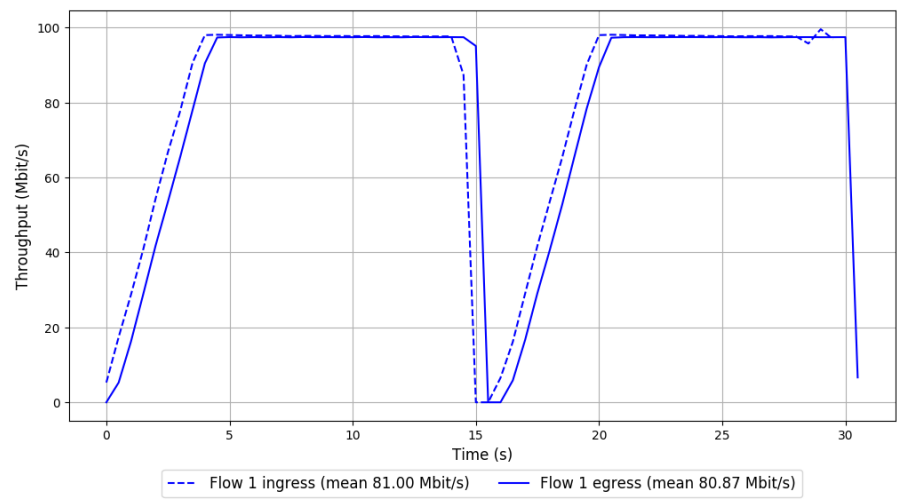


Run 5: Statistics of LEDBAT

Start at: 2019-08-26 19:29:07  
End at: 2019-08-26 19:29:37  
Local clock offset: -2.819 ms  
Remote clock offset: -1.611 ms

# Below is generated by plot.py at 2019-08-26 20:03:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 80.87 Mbit/s  
95th percentile per-packet one-way delay: 46.888 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 80.87 Mbit/s  
95th percentile per-packet one-way delay: 46.888 ms  
Loss rate: 0.07%

Run 5: Report of LEDBAT — Data Link

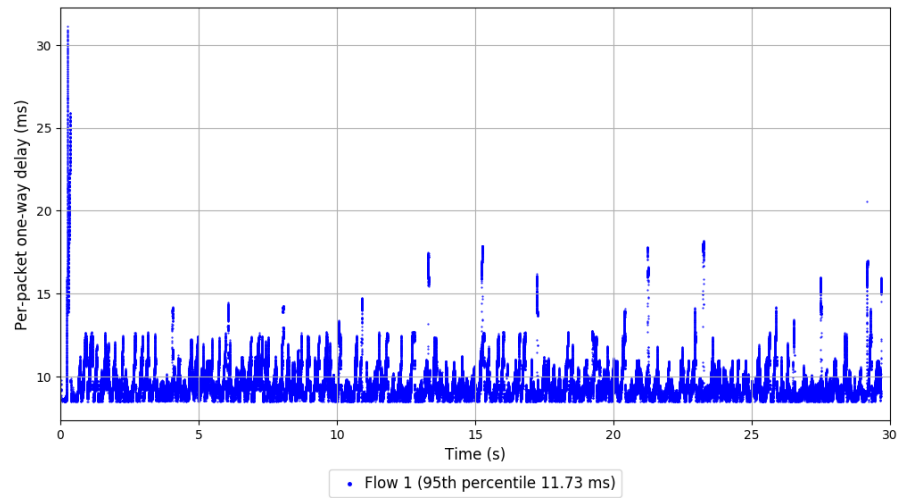
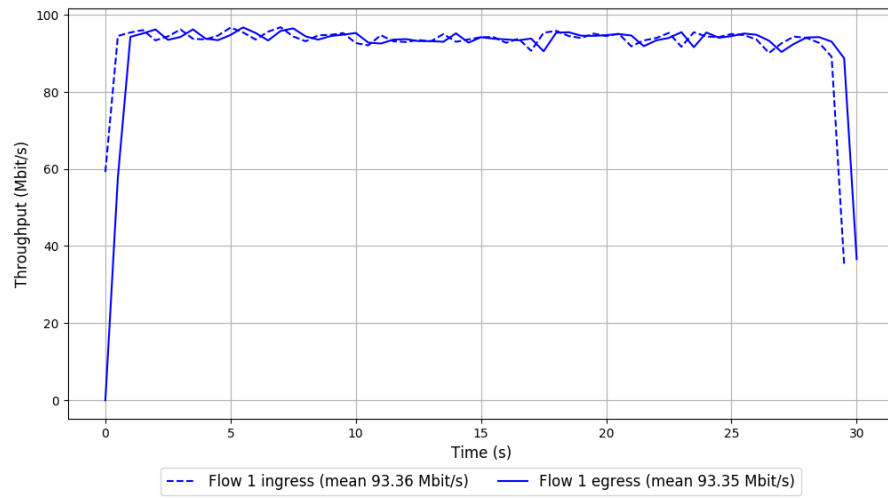


Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-08-26 17:43:51  
End at: 2019-08-26 17:44:21  
Local clock offset: -15.958 ms  
Remote clock offset: -1.842 ms

# Below is generated by plot.py at 2019-08-26 20:04:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 93.35 Mbit/s  
95th percentile per-packet one-way delay: 11.731 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 93.35 Mbit/s  
95th percentile per-packet one-way delay: 11.731 ms  
Loss rate: 0.01%

# Run 1: Report of Muses\_DecisionTree — Data Link

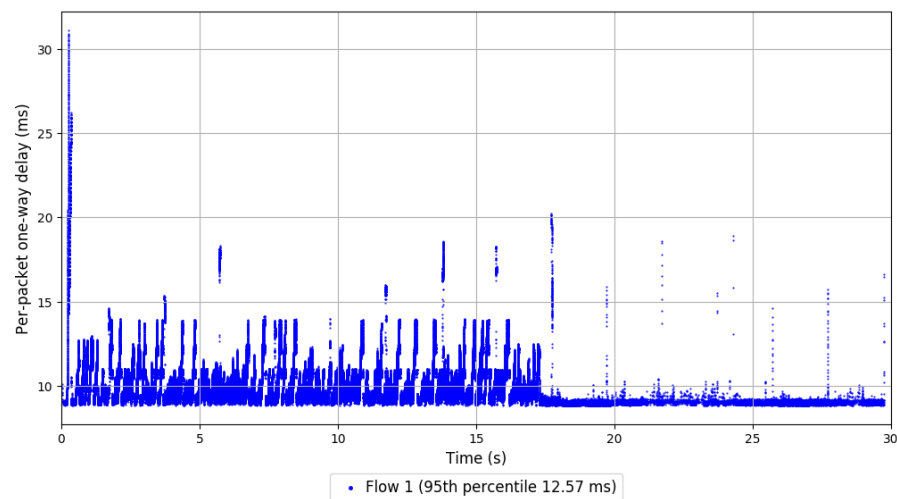
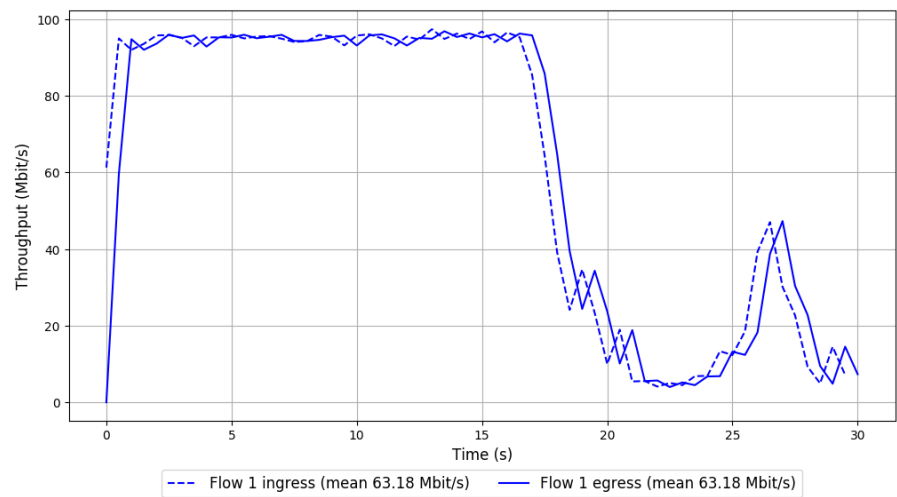


Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-08-26 18:11:58  
End at: 2019-08-26 18:12:28  
Local clock offset: -16.305 ms  
Remote clock offset: -2.388 ms

# Below is generated by plot.py at 2019-08-26 20:04:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 63.18 Mbit/s  
95th percentile per-packet one-way delay: 12.575 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 63.18 Mbit/s  
95th percentile per-packet one-way delay: 12.575 ms  
Loss rate: 0.00%

Run 2: Report of Muses\_DecisionTree — Data Link

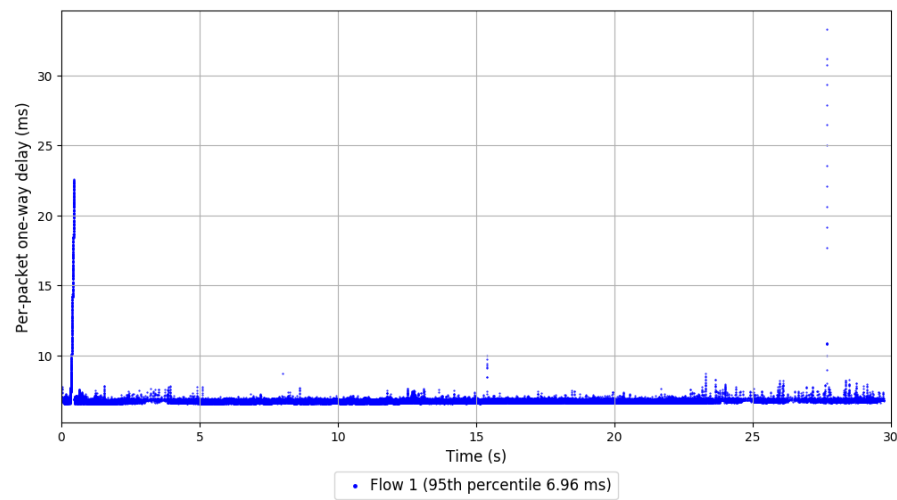
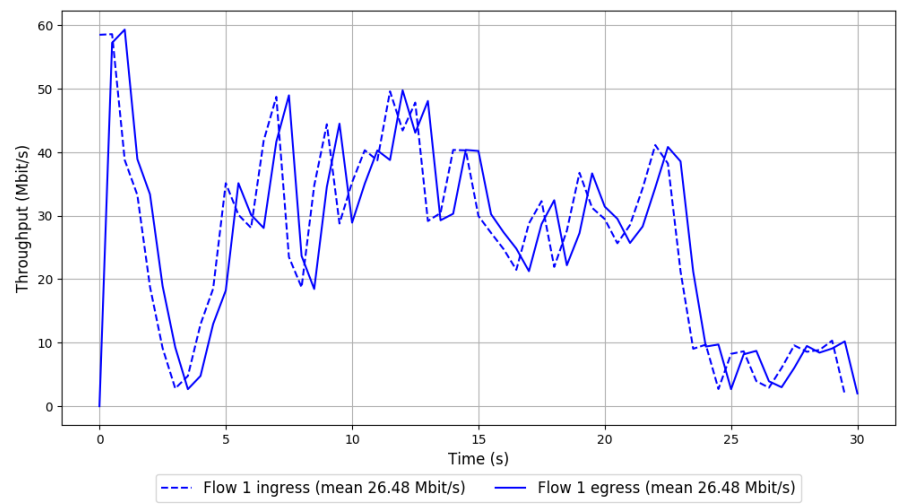


Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-08-26 18:39:48  
End at: 2019-08-26 18:40:18  
Local clock offset: -14.169 ms  
Remote clock offset: -2.205 ms

# Below is generated by plot.py at 2019-08-26 20:04:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 26.48 Mbit/s  
95th percentile per-packet one-way delay: 6.956 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 26.48 Mbit/s  
95th percentile per-packet one-way delay: 6.956 ms  
Loss rate: 0.00%

Run 3: Report of Muses\_DecisionTree — Data Link

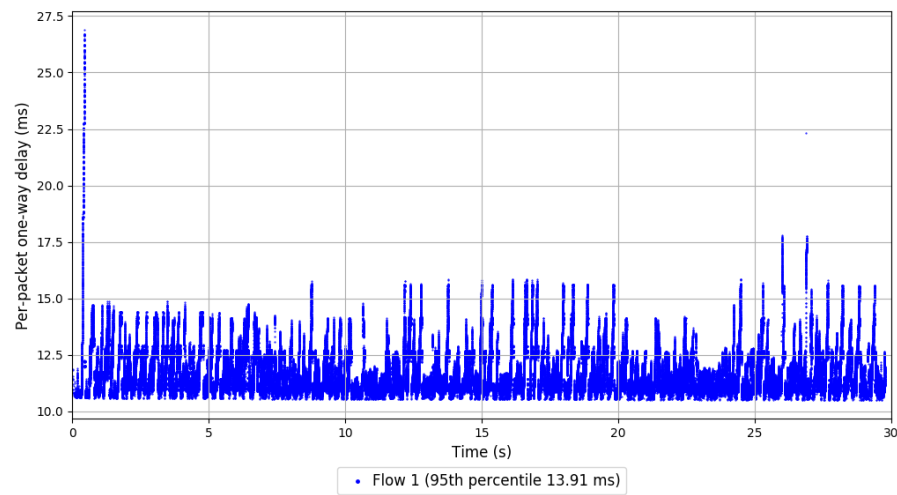
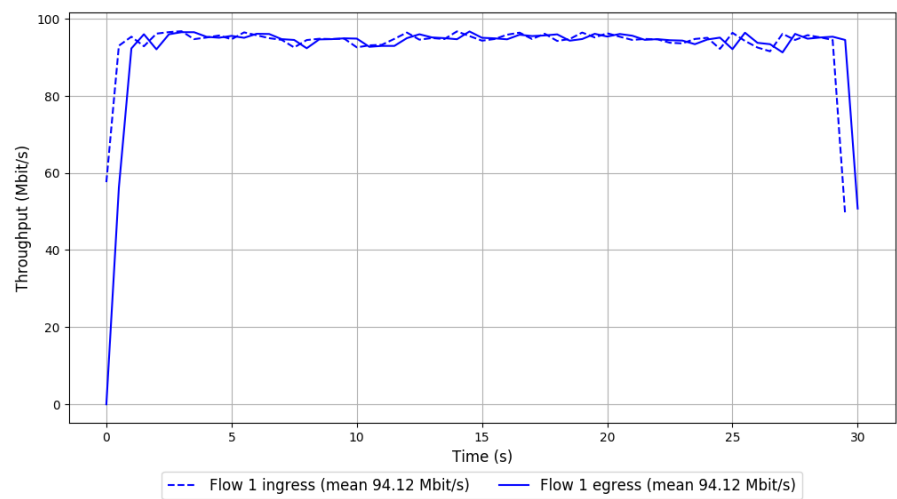


Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-08-26 19:07:18  
End at: 2019-08-26 19:07:48  
Local clock offset: -2.636 ms  
Remote clock offset: -1.797 ms

# Below is generated by plot.py at 2019-08-26 20:04:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.12 Mbit/s  
95th percentile per-packet one-way delay: 13.911 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 94.12 Mbit/s  
95th percentile per-packet one-way delay: 13.911 ms  
Loss rate: 0.01%

Run 4: Report of Muses\_DecisionTree — Data Link

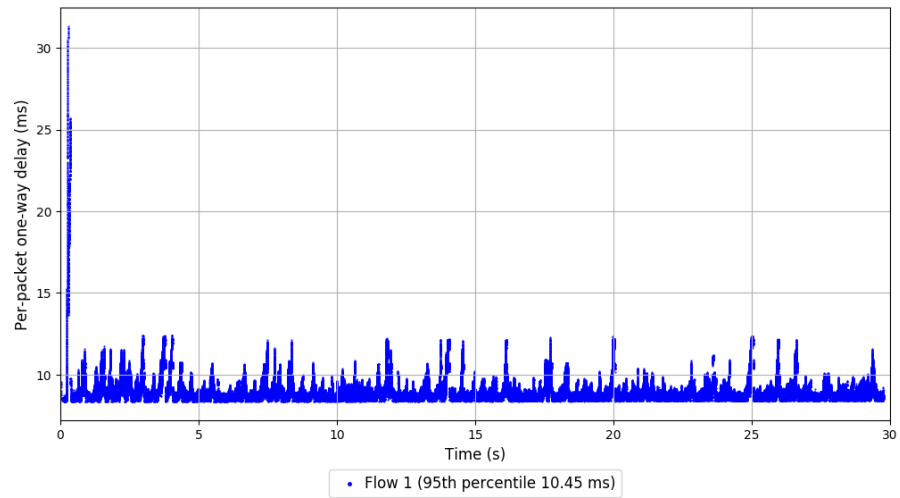
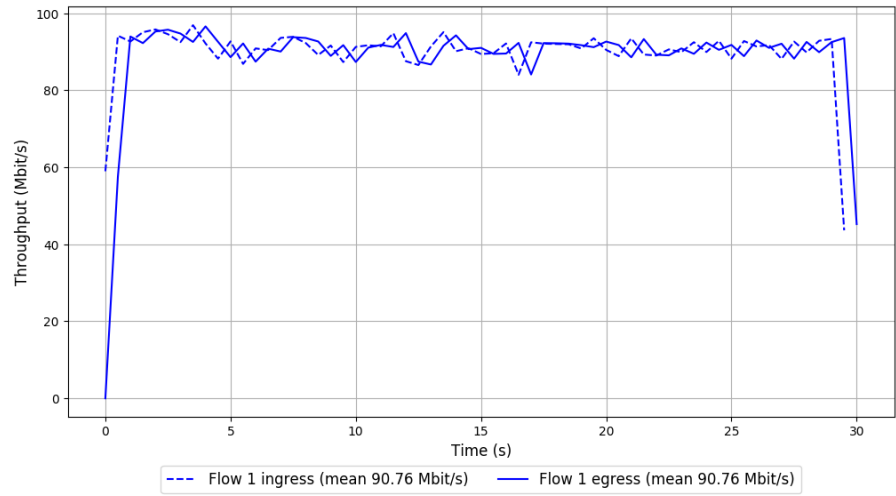


Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-08-26 19:34:53  
End at: 2019-08-26 19:35:23  
Local clock offset: -3.677 ms  
Remote clock offset: -1.598 ms

# Below is generated by plot.py at 2019-08-26 20:04:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 90.76 Mbit/s  
95th percentile per-packet one-way delay: 10.449 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 90.76 Mbit/s  
95th percentile per-packet one-way delay: 10.449 ms  
Loss rate: 0.00%

### Run 5: Report of Muses\_DecisionTree — Data Link

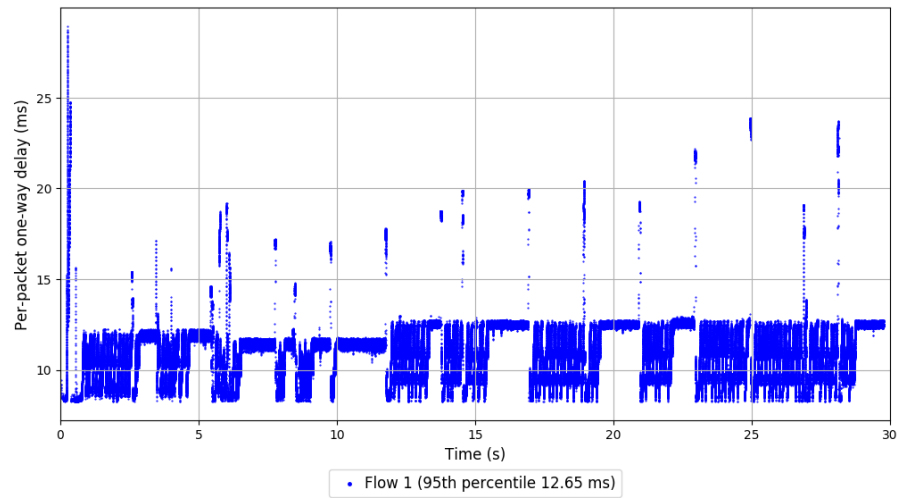
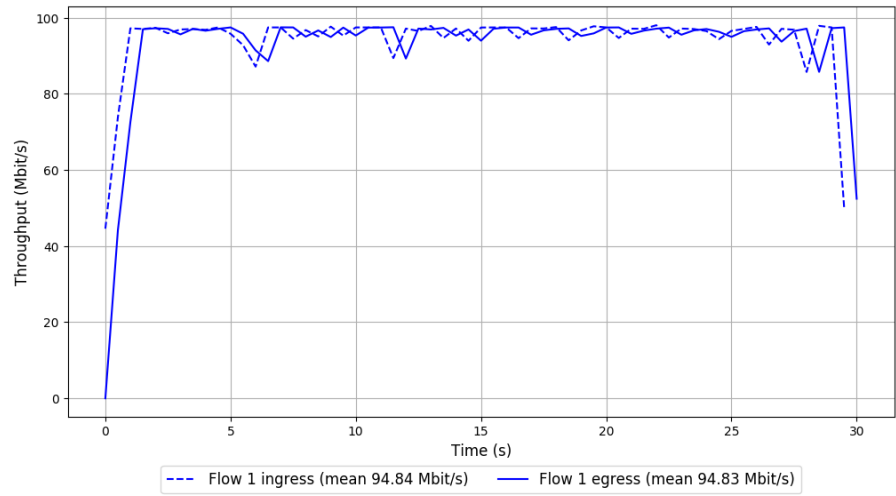


Run 1: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-08-26 17:45:04  
End at: 2019-08-26 17:45:34  
Local clock offset: -16.133 ms  
Remote clock offset: 0.807 ms

# Below is generated by plot.py at 2019-08-26 20:04:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.83 Mbit/s  
95th percentile per-packet one-way delay: 12.646 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 94.83 Mbit/s  
95th percentile per-packet one-way delay: 12.646 ms  
Loss rate: 0.00%

# Run 1: Report of Muses\_DecisionTreeH0 — Data Link

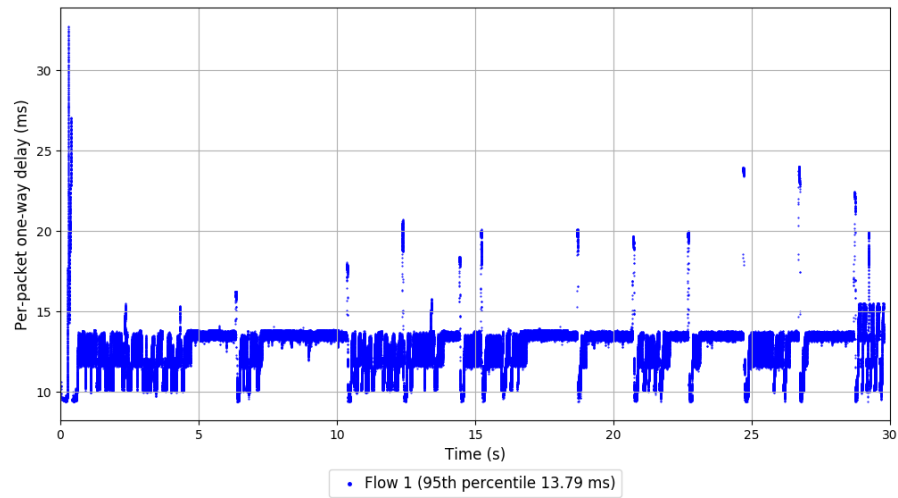
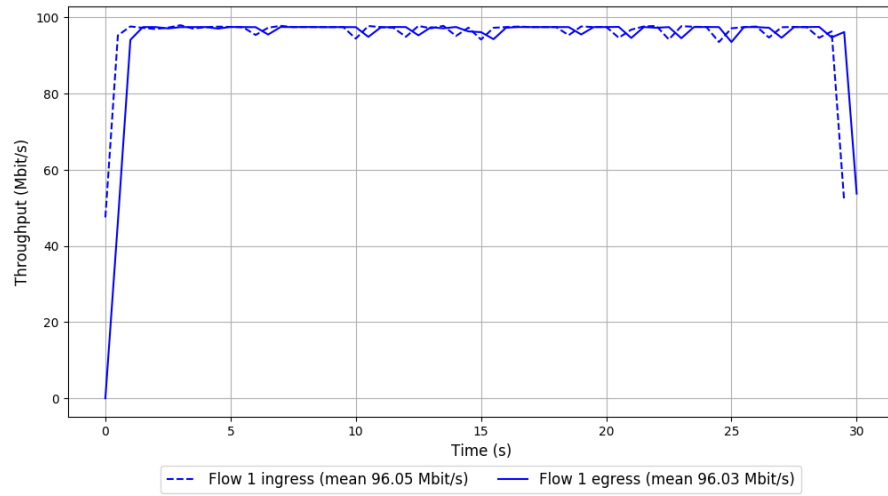


Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-08-26 18:13:07  
End at: 2019-08-26 18:13:37  
Local clock offset: -17.381 ms  
Remote clock offset: -2.894 ms

# Below is generated by plot.py at 2019-08-26 20:04:52  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.03 Mbit/s  
95th percentile per-packet one-way delay: 13.789 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 96.03 Mbit/s  
95th percentile per-packet one-way delay: 13.789 ms  
Loss rate: 0.01%

## Run 2: Report of Muses\_DecisionTreeH0 — Data Link

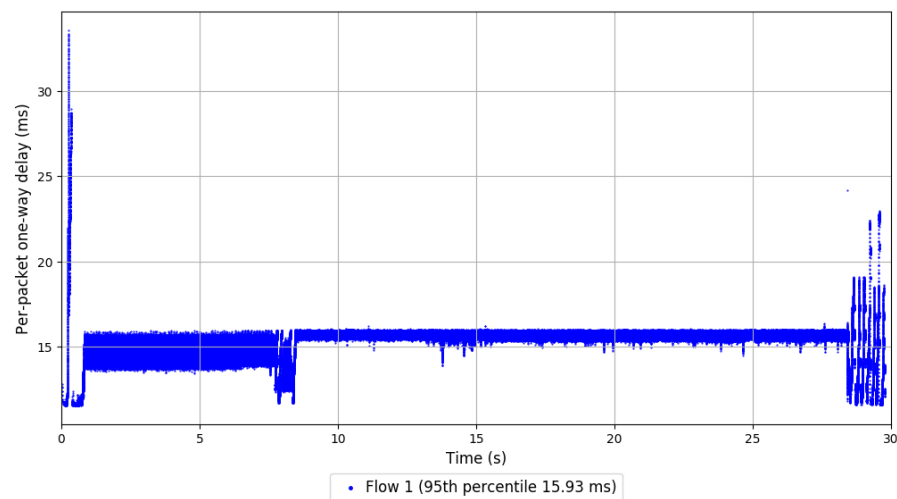
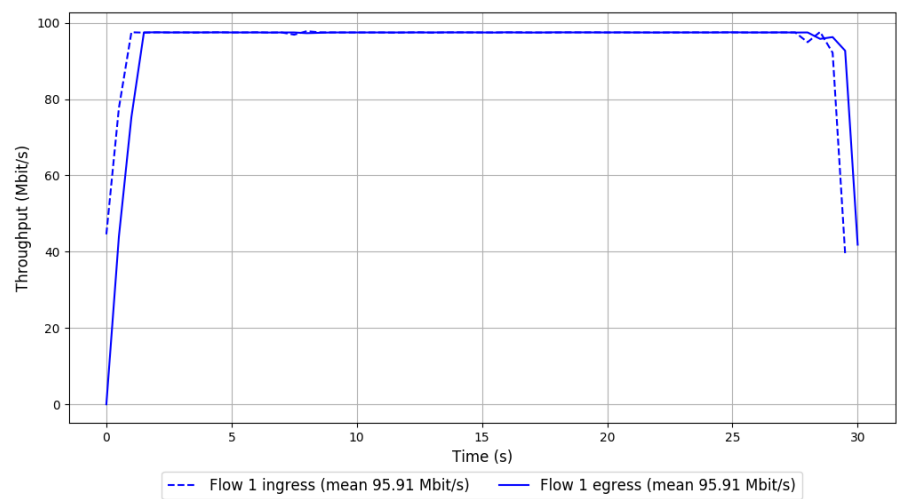


Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-08-26 18:40:54  
End at: 2019-08-26 18:41:24  
Local clock offset: -13.421 ms  
Remote clock offset: 0.381 ms

# Below is generated by plot.py at 2019-08-26 20:04:59  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.91 Mbit/s  
95th percentile per-packet one-way delay: 15.927 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 95.91 Mbit/s  
95th percentile per-packet one-way delay: 15.927 ms  
Loss rate: 0.01%

Run 3: Report of Muses\_DecisionTreeH0 — Data Link

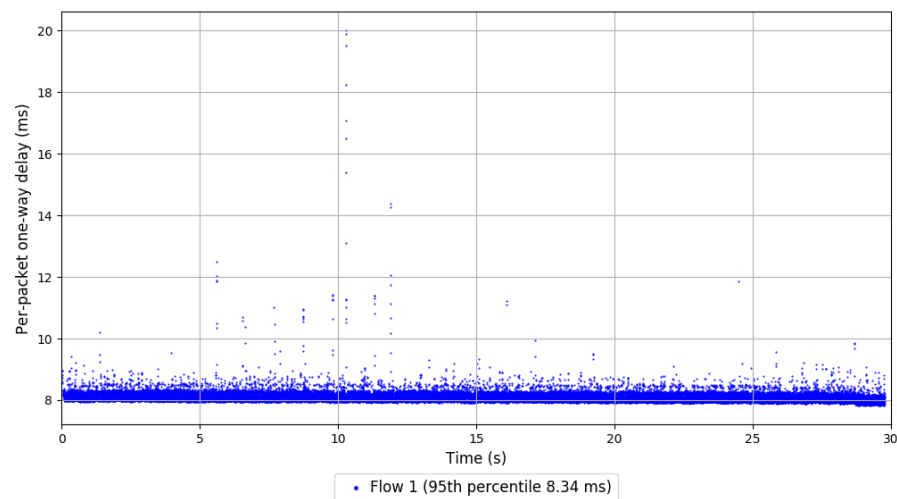
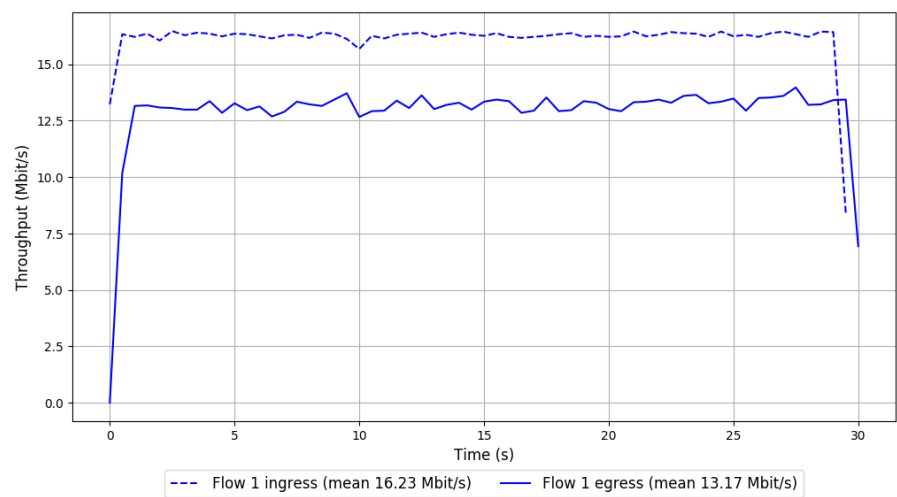


Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-08-26 19:08:30  
End at: 2019-08-26 19:09:00  
Local clock offset: -7.433 ms  
Remote clock offset: -9.211 ms

# Below is generated by plot.py at 2019-08-26 20:04:59  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 13.17 Mbit/s  
95th percentile per-packet one-way delay: 8.340 ms  
Loss rate: 18.85%  
-- Flow 1:  
Average throughput: 13.17 Mbit/s  
95th percentile per-packet one-way delay: 8.340 ms  
Loss rate: 18.85%

Run 4: Report of Muses\_DecisionTreeH0 — Data Link

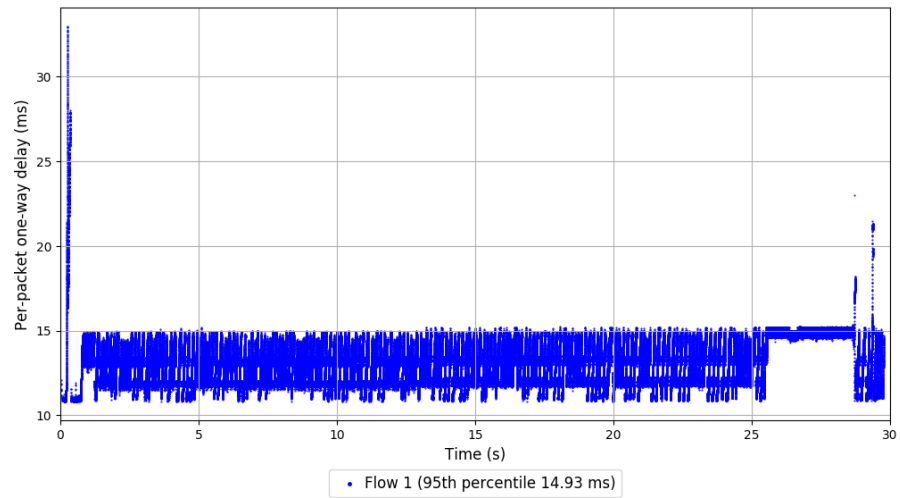
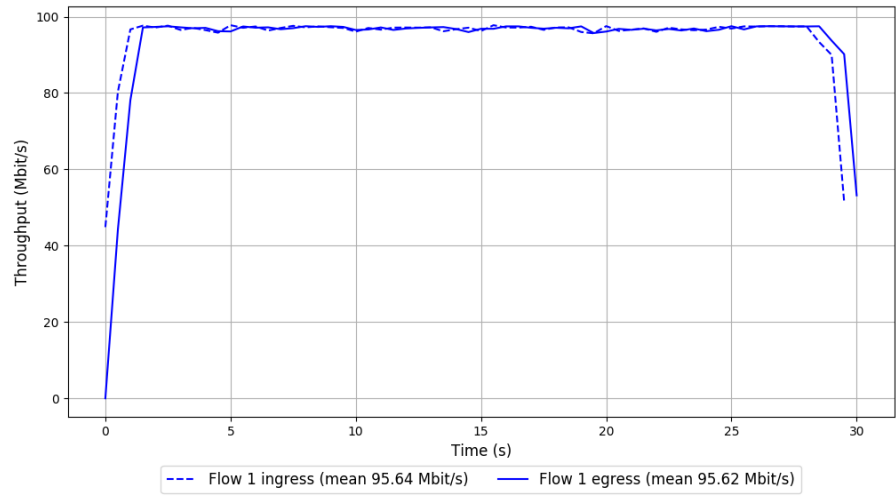


Run 5: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-08-26 19:36:02  
End at: 2019-08-26 19:36:32  
Local clock offset: -3.264 ms  
Remote clock offset: -1.953 ms

# Below is generated by plot.py at 2019-08-26 20:05:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.62 Mbit/s  
95th percentile per-packet one-way delay: 14.934 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 95.62 Mbit/s  
95th percentile per-packet one-way delay: 14.934 ms  
Loss rate: 0.01%

### Run 5: Report of Muses\_DecisionTreeH0 — Data Link

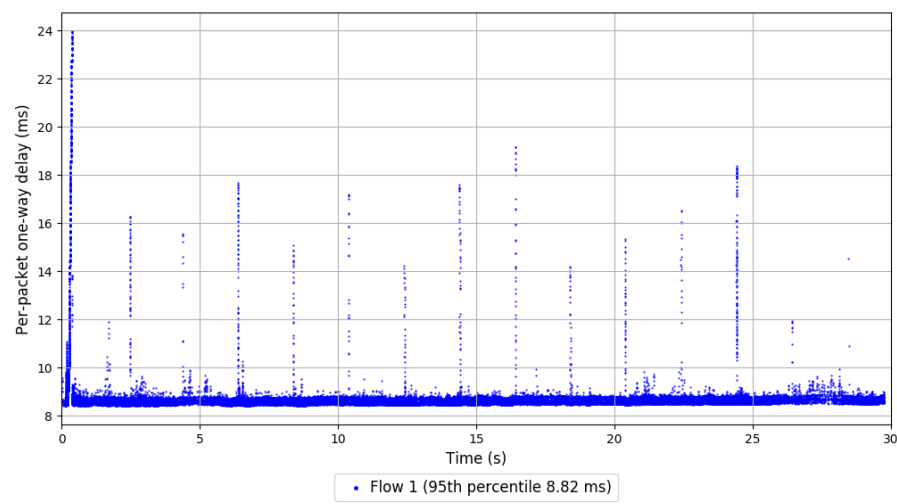
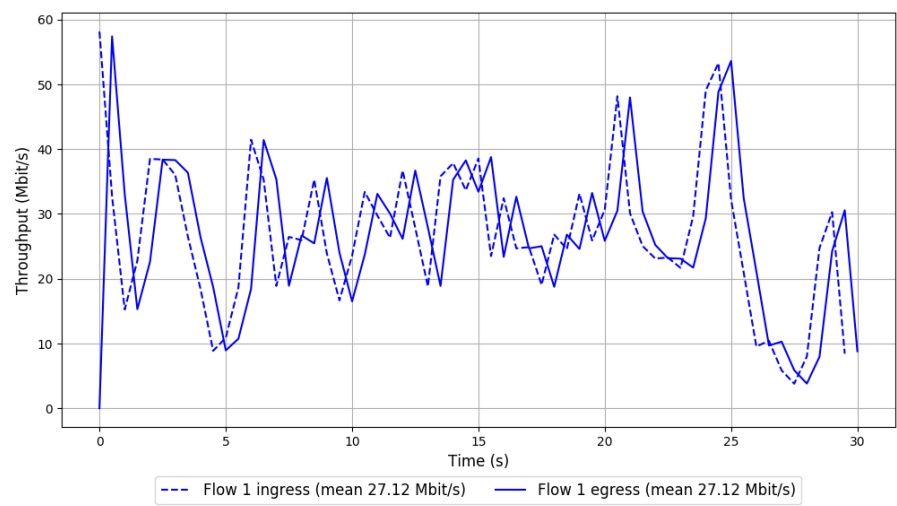


Run 1: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-08-26 17:51:03  
End at: 2019-08-26 17:51:33  
Local clock offset: -16.629 ms  
Remote clock offset: 0.625 ms

# Below is generated by plot.py at 2019-08-26 20:05:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 27.12 Mbit/s  
95th percentile per-packet one-way delay: 8.819 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 27.12 Mbit/s  
95th percentile per-packet one-way delay: 8.819 ms  
Loss rate: 0.00%

Run 1: Report of Muses\_DecisionTreeR0 — Data Link

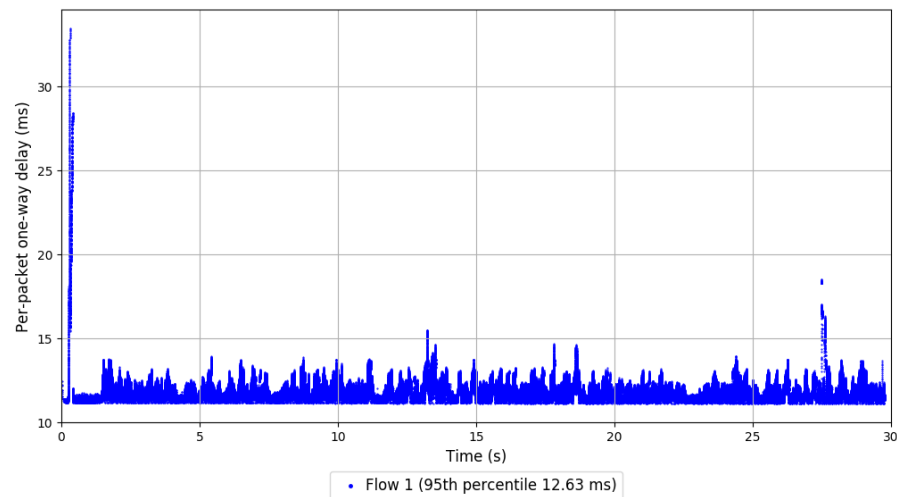
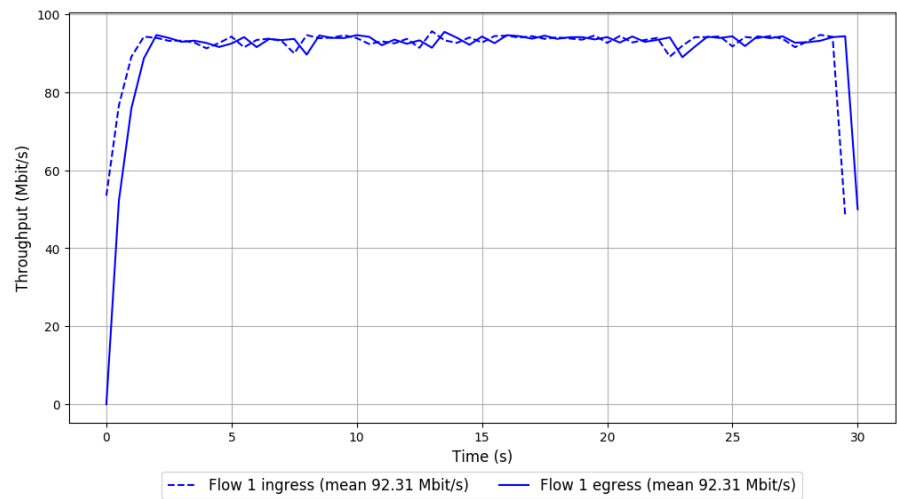


Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-08-26 18:19:06  
End at: 2019-08-26 18:19:36  
Local clock offset: -18.139 ms  
Remote clock offset: -1.445 ms

# Below is generated by plot.py at 2019-08-26 20:05:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.31 Mbit/s  
95th percentile per-packet one-way delay: 12.631 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 92.31 Mbit/s  
95th percentile per-packet one-way delay: 12.631 ms  
Loss rate: 0.01%

Run 2: Report of Muses\_DecisionTreeR0 — Data Link

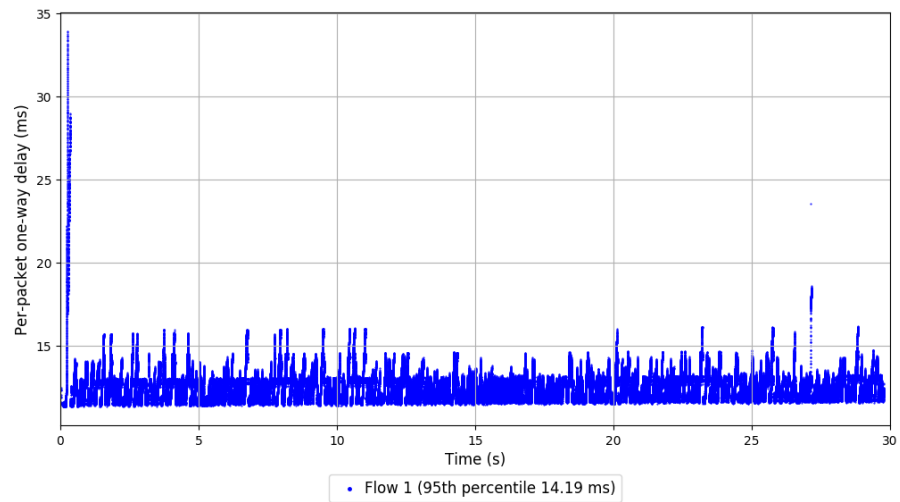
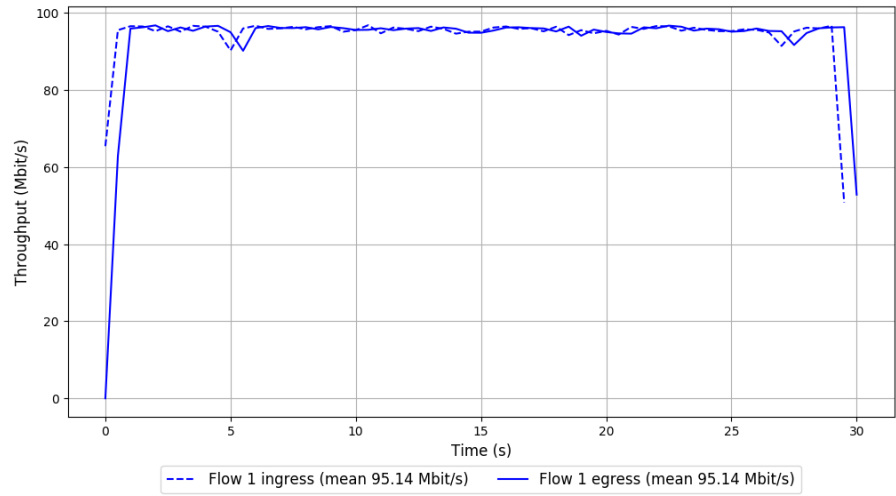


Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-08-26 18:46:54  
End at: 2019-08-26 18:47:24  
Local clock offset: -12.648 ms  
Remote clock offset: 0.442 ms

# Below is generated by plot.py at 2019-08-26 20:05:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.14 Mbit/s  
95th percentile per-packet one-way delay: 14.189 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 95.14 Mbit/s  
95th percentile per-packet one-way delay: 14.189 ms  
Loss rate: 0.01%

### Run 3: Report of Muses\_DecisionTreeR0 — Data Link

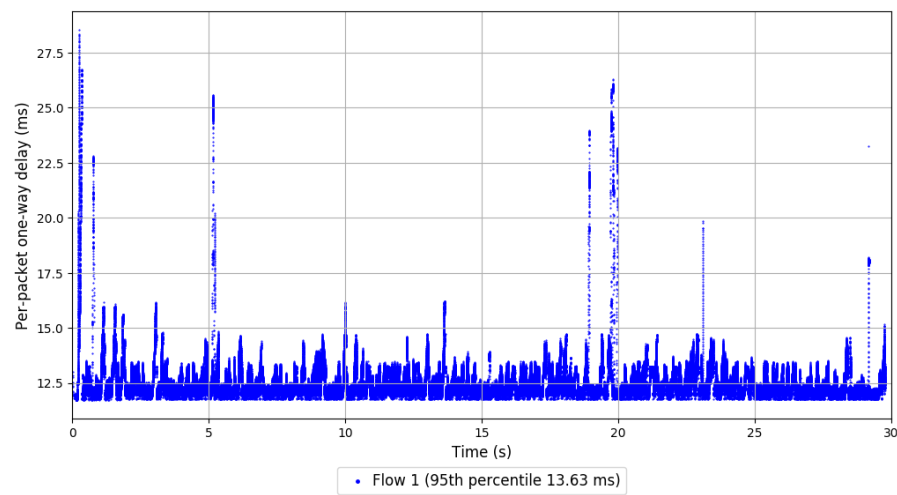
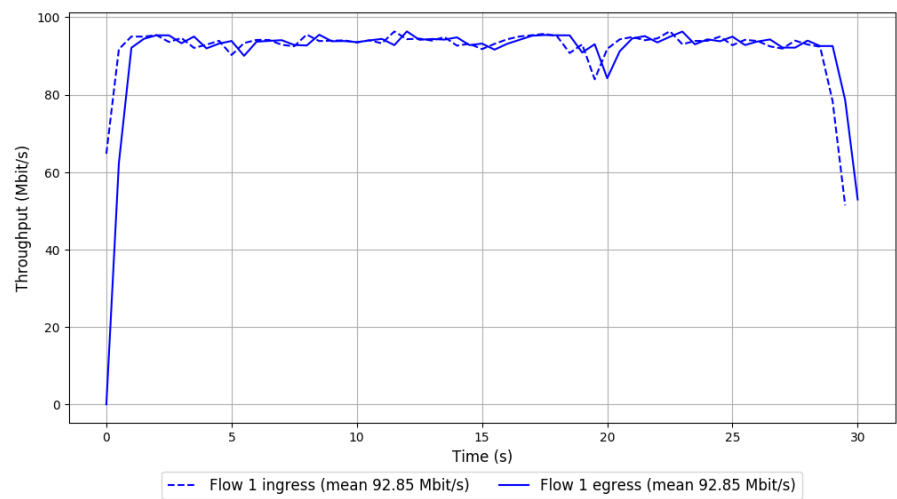


Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-08-26 19:14:21  
End at: 2019-08-26 19:14:51  
Local clock offset: -3.603 ms  
Remote clock offset: -0.968 ms

# Below is generated by plot.py at 2019-08-26 20:05:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.85 Mbit/s  
95th percentile per-packet one-way delay: 13.626 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 92.85 Mbit/s  
95th percentile per-packet one-way delay: 13.626 ms  
Loss rate: 0.01%

Run 4: Report of Muses\_DecisionTreeR0 — Data Link

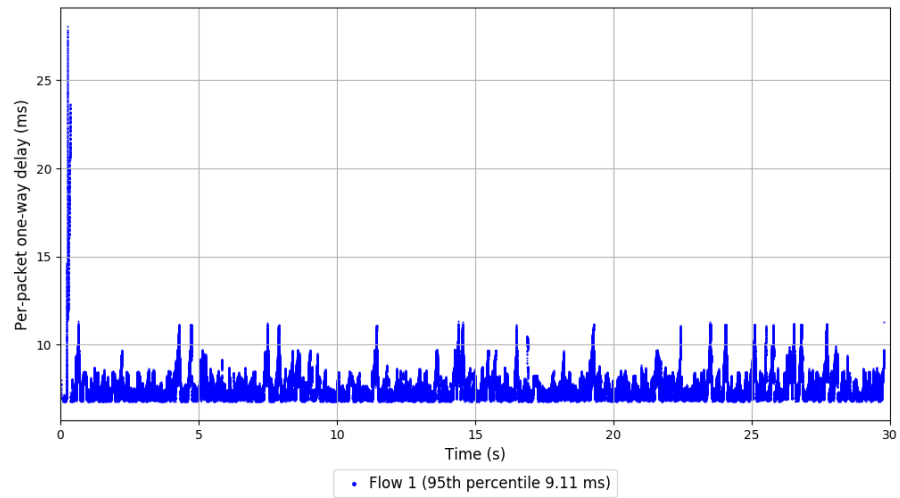
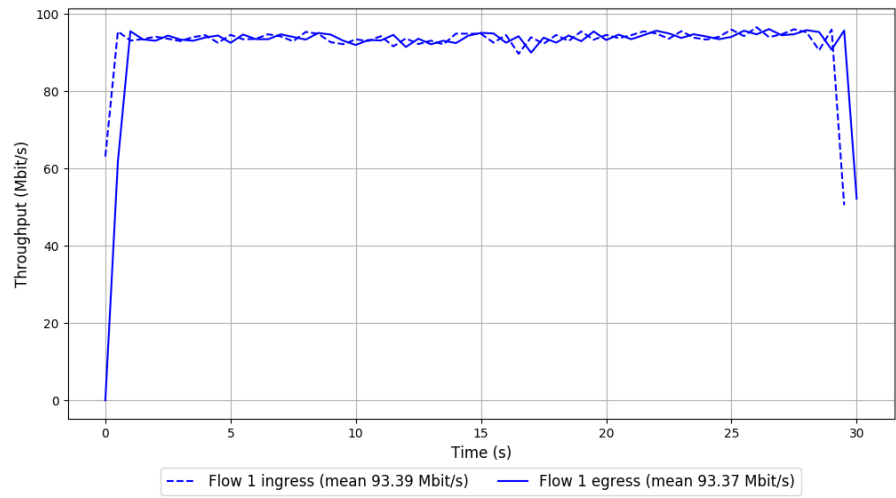


Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-08-26 19:41:52  
End at: 2019-08-26 19:42:22  
Local clock offset: -3.639 ms  
Remote clock offset: -3.516 ms

# Below is generated by plot.py at 2019-08-26 20:05:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 93.37 Mbit/s  
95th percentile per-packet one-way delay: 9.114 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 93.37 Mbit/s  
95th percentile per-packet one-way delay: 9.114 ms  
Loss rate: 0.00%

### Run 5: Report of Muses\_DecisionTreeR0 — Data Link

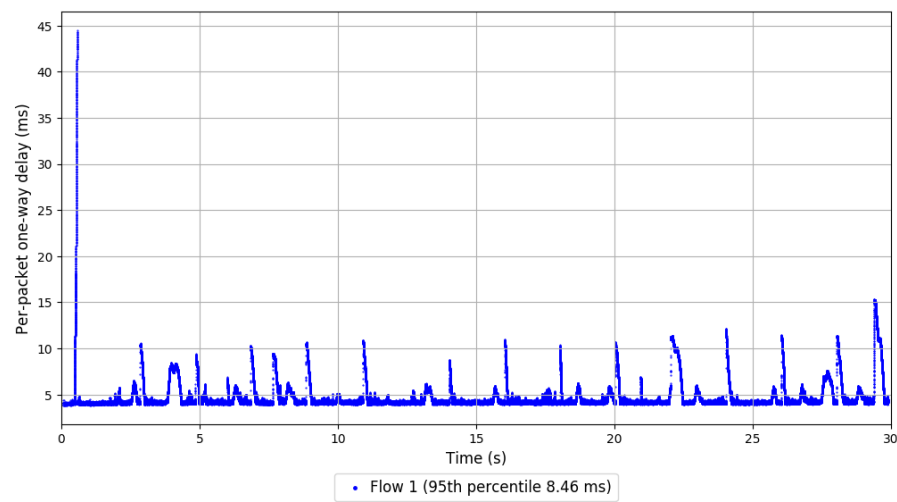
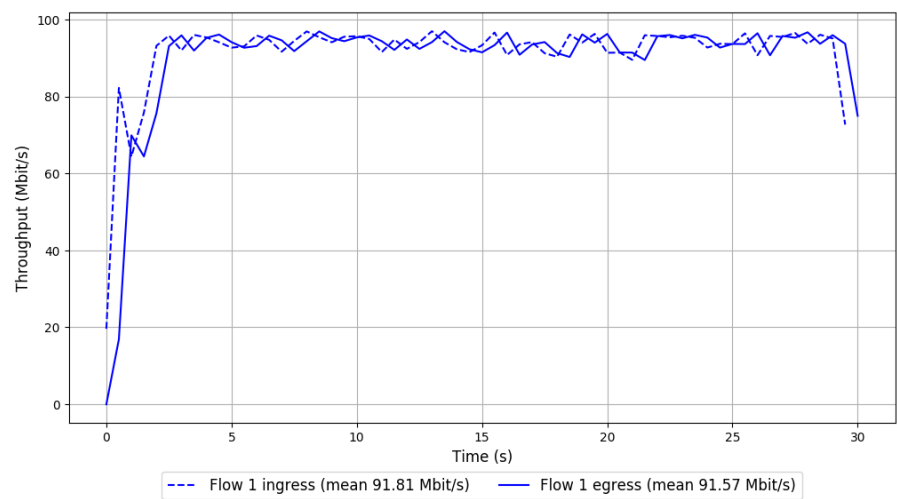


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-08-26 18:00:09
End at: 2019-08-26 18:00:39
Local clock offset: -13.477 ms
Remote clock offset: -1.664 ms

# Below is generated by plot.py at 2019-08-26 20:05:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.57 Mbit/s
95th percentile per-packet one-way delay: 8.455 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 91.57 Mbit/s
95th percentile per-packet one-way delay: 8.455 ms
Loss rate: 0.26%
```

Run 1: Report of PCC-Allegro — Data Link

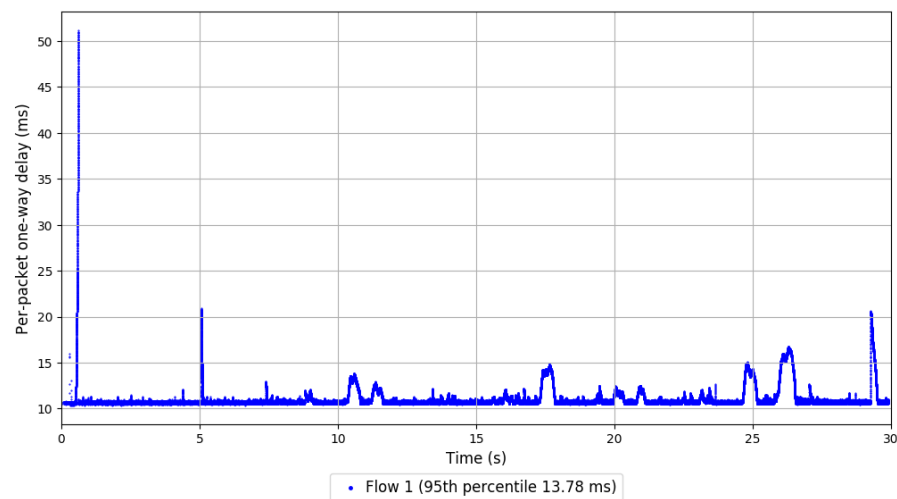
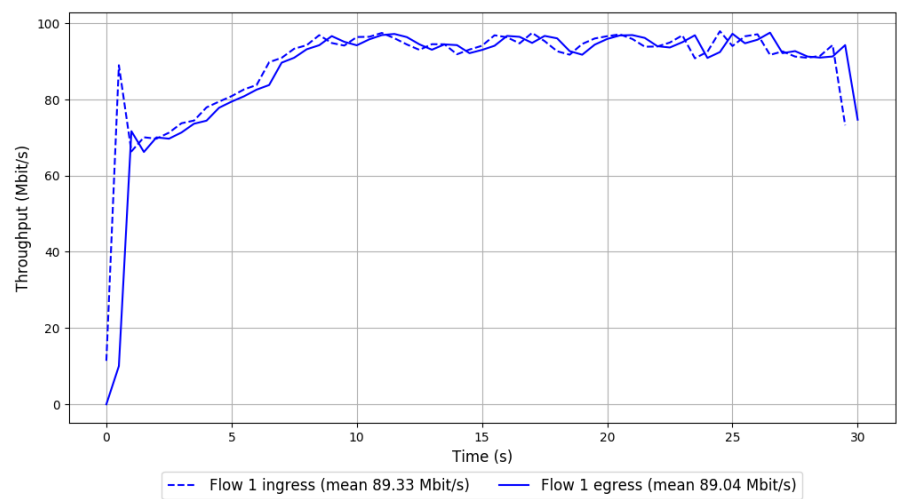


Run 2: Statistics of PCC-Allegro

Start at: 2019-08-26 18:28:15  
End at: 2019-08-26 18:28:45  
Local clock offset: -16.979 ms  
Remote clock offset: -0.842 ms

# Below is generated by plot.py at 2019-08-26 20:05:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 89.04 Mbit/s  
95th percentile per-packet one-way delay: 13.777 ms  
Loss rate: 0.34%  
-- Flow 1:  
Average throughput: 89.04 Mbit/s  
95th percentile per-packet one-way delay: 13.777 ms  
Loss rate: 0.34%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-08-26 18:55:55

End at: 2019-08-26 18:56:25

Local clock offset: -4.461 ms

Remote clock offset: -0.537 ms

# Below is generated by plot.py at 2019-08-26 20:06:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.13 Mbit/s

95th percentile per-packet one-way delay: 12.707 ms

Loss rate: 0.30%

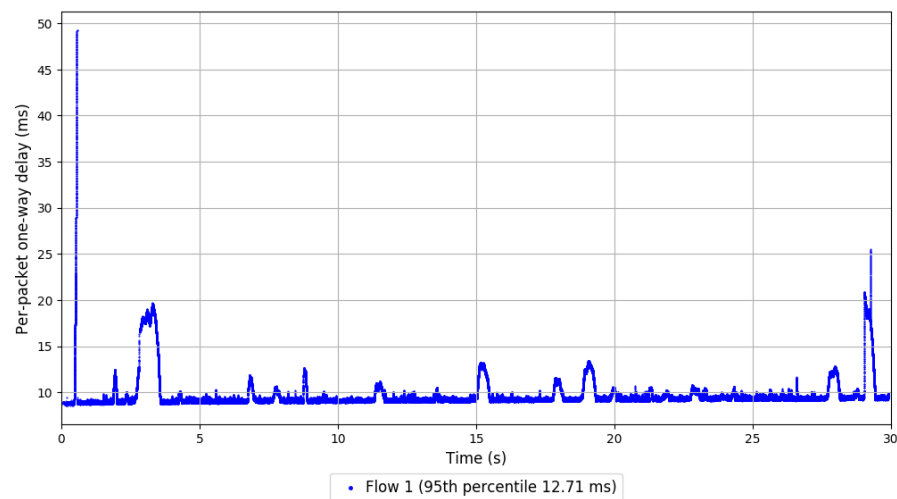
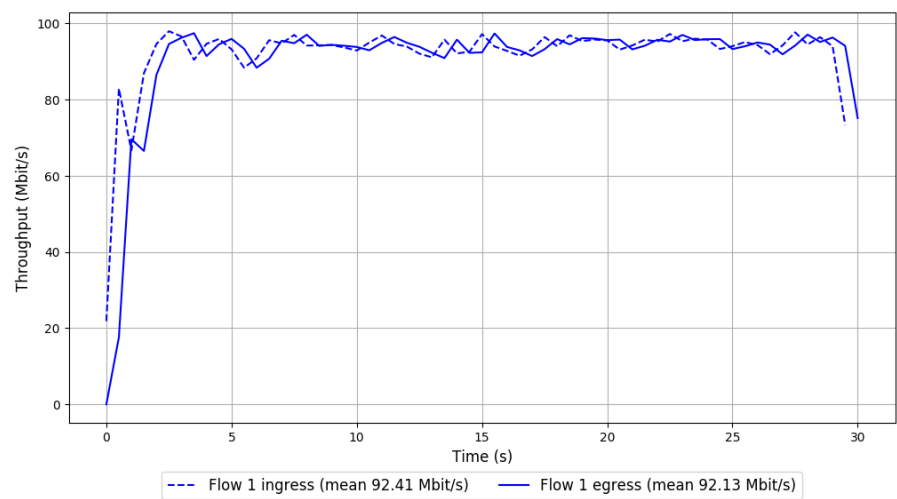
-- Flow 1:

Average throughput: 92.13 Mbit/s

95th percentile per-packet one-way delay: 12.707 ms

Loss rate: 0.30%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-08-26 19:23:29

End at: 2019-08-26 19:23:59

Local clock offset: -1.902 ms

Remote clock offset: -0.35 ms

# Below is generated by plot.py at 2019-08-26 20:06:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.89 Mbit/s

95th percentile per-packet one-way delay: 13.847 ms

Loss rate: 0.32%

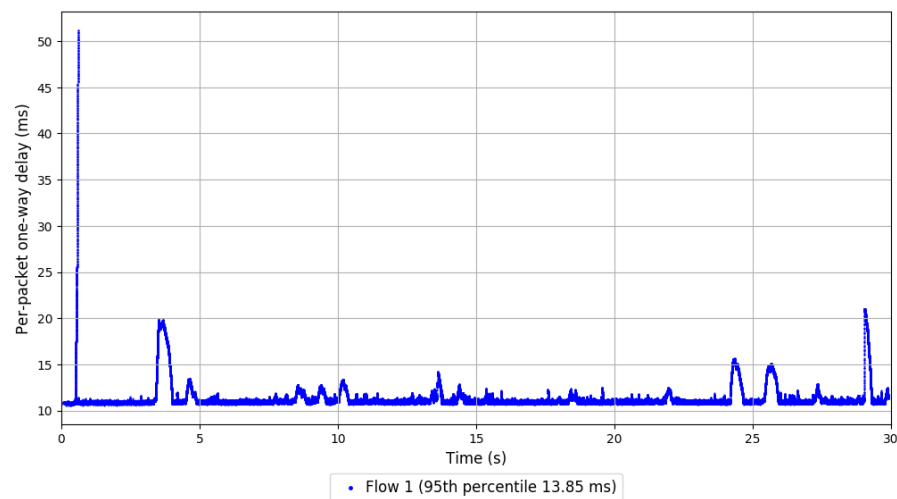
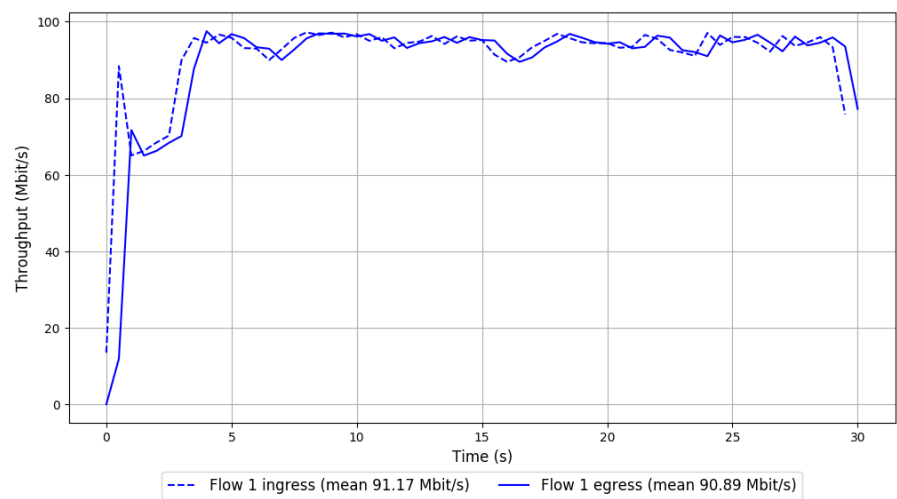
-- Flow 1:

Average throughput: 90.89 Mbit/s

95th percentile per-packet one-way delay: 13.847 ms

Loss rate: 0.32%

Run 4: Report of PCC-Allegro — Data Link

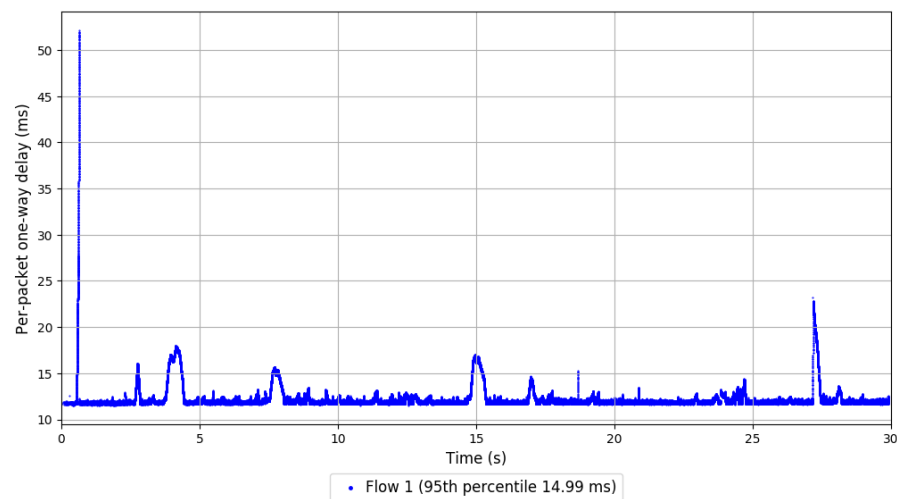
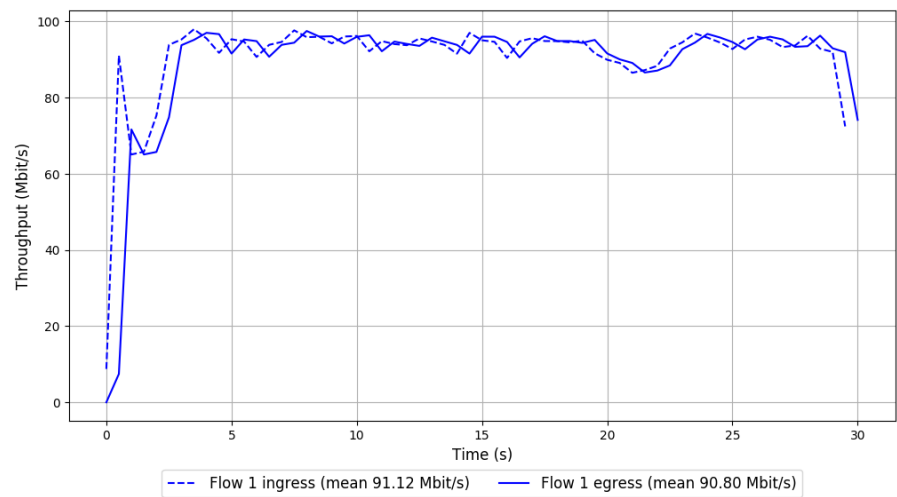


Run 5: Statistics of PCC-Allegro

Start at: 2019-08-26 19:51:05  
End at: 2019-08-26 19:51:35  
Local clock offset: -3.854 ms  
Remote clock offset: -2.566 ms

# Below is generated by plot.py at 2019-08-26 20:06:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 90.80 Mbit/s  
95th percentile per-packet one-way delay: 14.989 ms  
Loss rate: 0.36%  
-- Flow 1:  
Average throughput: 90.80 Mbit/s  
95th percentile per-packet one-way delay: 14.989 ms  
Loss rate: 0.36%

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

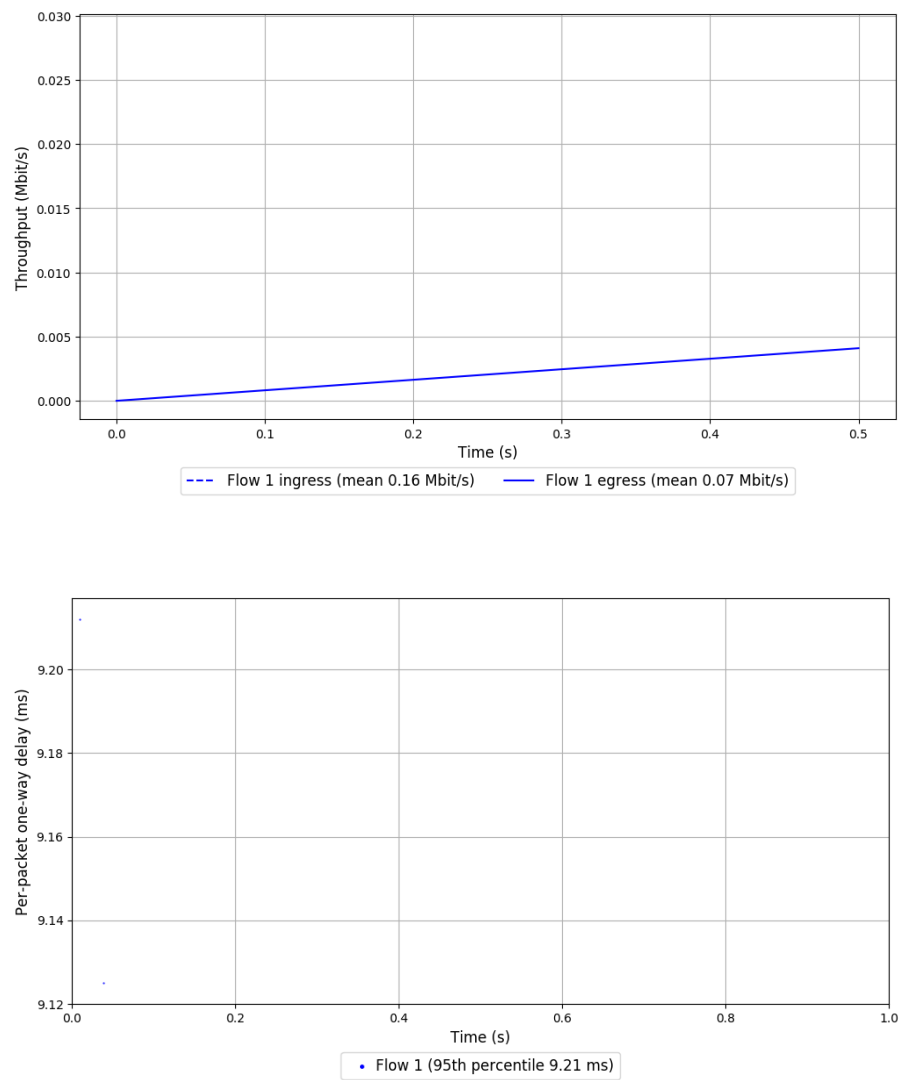
Start at: 2019-08-26 17:54:27

End at: 2019-08-26 17:54:57

Local clock offset: -22.982 ms

Remote clock offset: -5.518 ms

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

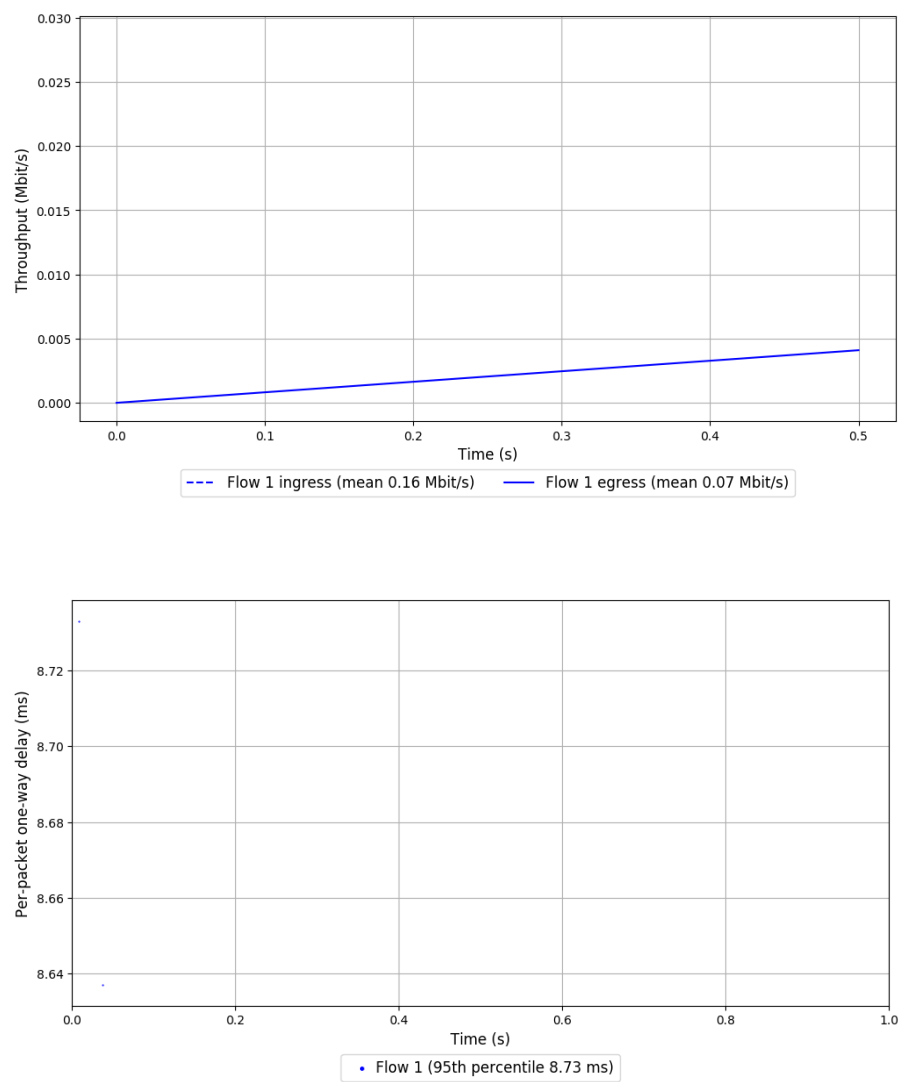
Start at: 2019-08-26 18:22:29

End at: 2019-08-26 18:22:59

Local clock offset: -18.758 ms

Remote clock offset: -1.155 ms

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

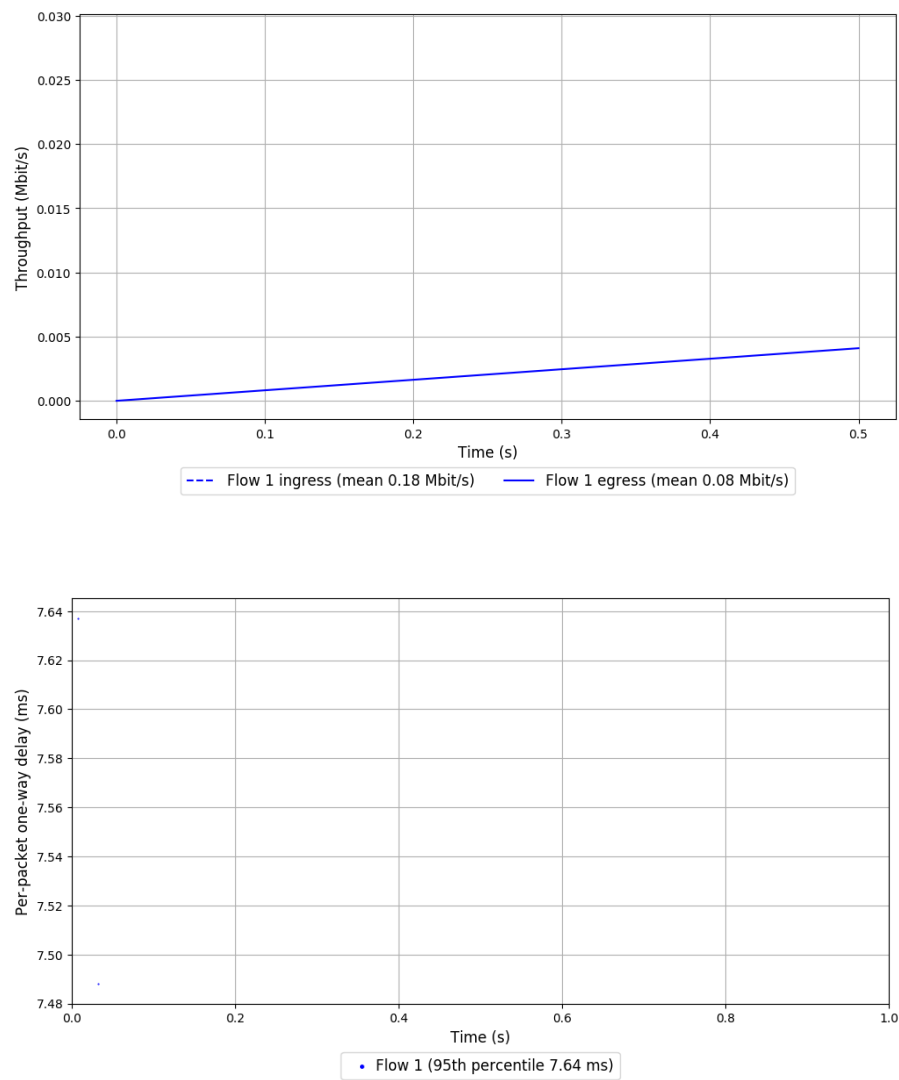
Start at: 2019-08-26 18:50:14

End at: 2019-08-26 18:50:44

Local clock offset: -11.182 ms

Remote clock offset: -1.664 ms

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

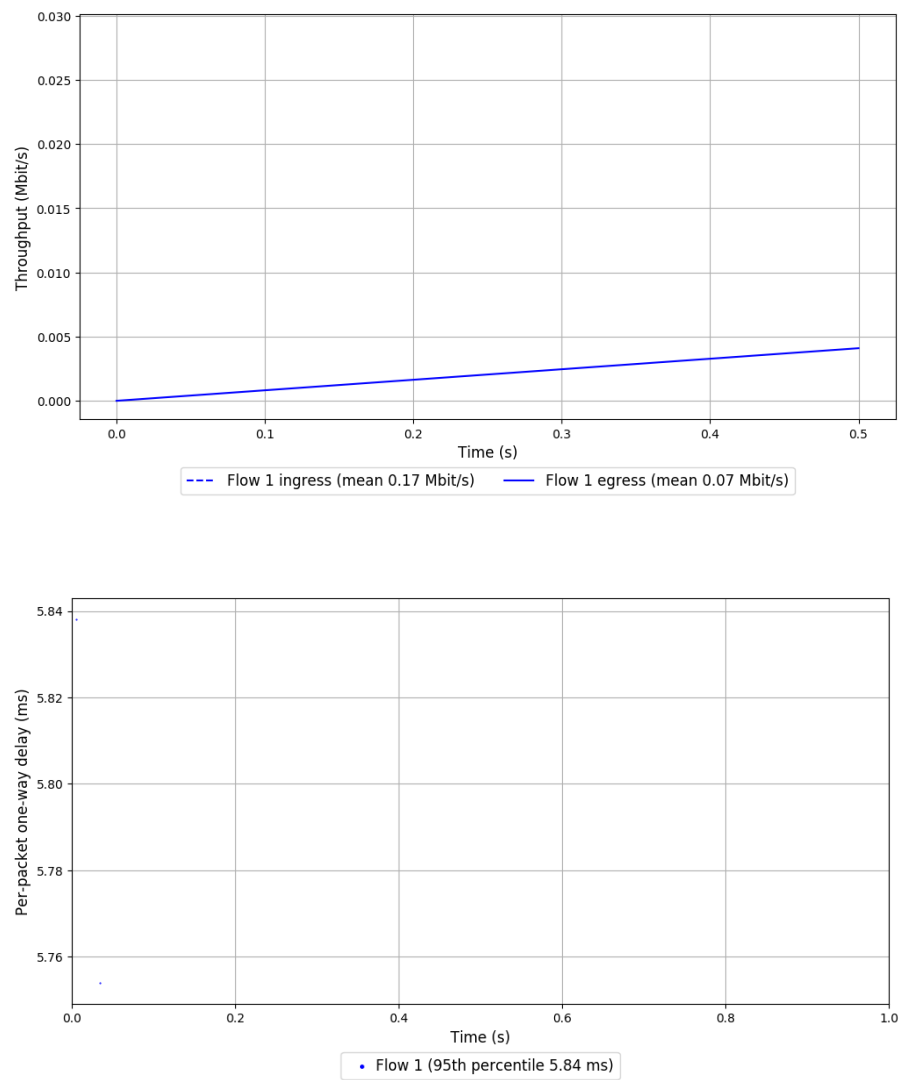
Start at: 2019-08-26 19:17:44

End at: 2019-08-26 19:18:14

Local clock offset: -3.064 ms

Remote clock offset: -3.328 ms

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

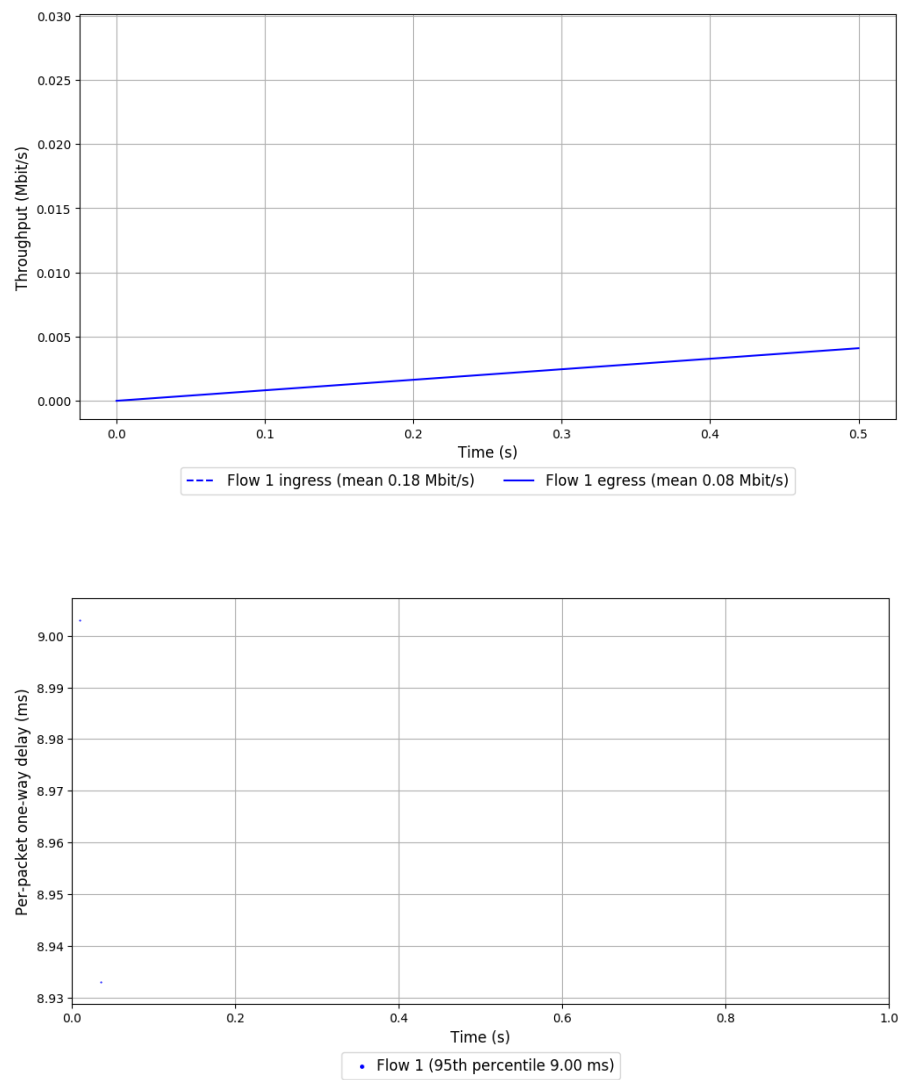
Start at: 2019-08-26 19:45:21

End at: 2019-08-26 19:45:51

Local clock offset: -3.925 ms

Remote clock offset: -1.796 ms

Run 5: Report of PCC-Expr — Data Link

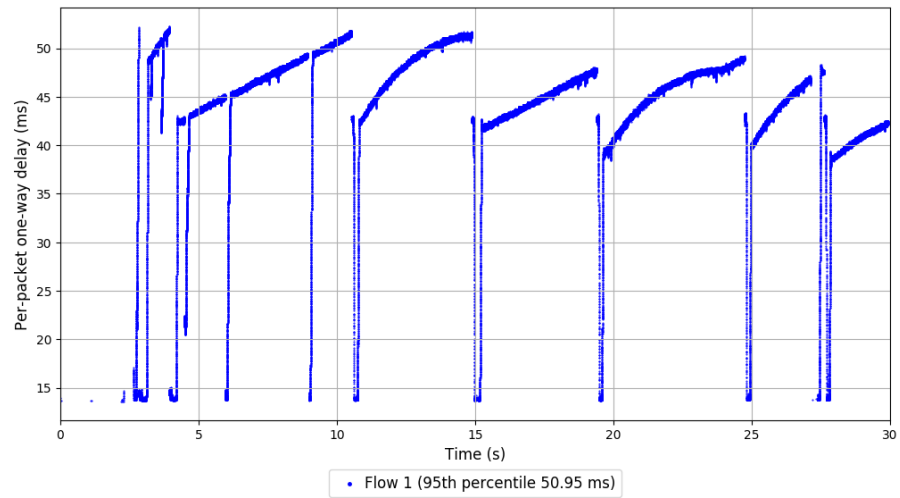
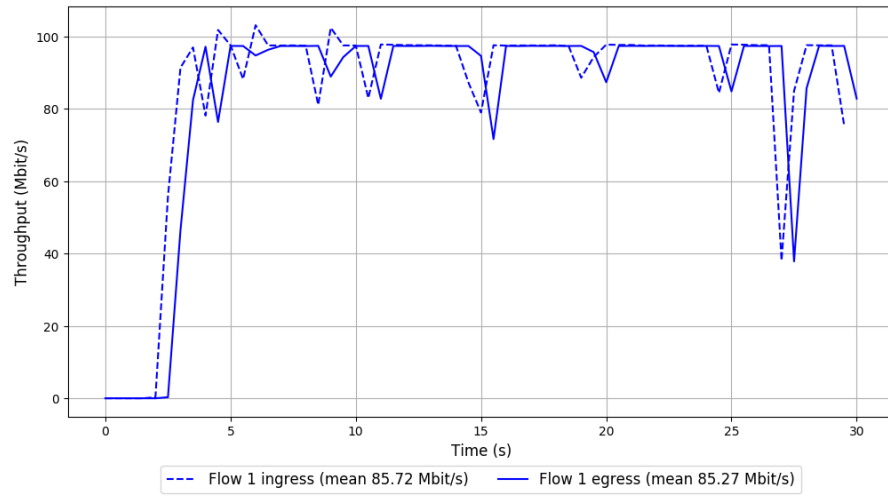


Run 1: Statistics of QUIC Cubic

Start at: 2019-08-26 18:01:20  
End at: 2019-08-26 18:01:50  
Local clock offset: -17.536 ms  
Remote clock offset: 0.831 ms

# Below is generated by plot.py at 2019-08-26 20:06:43  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 85.27 Mbit/s  
95th percentile per-packet one-way delay: 50.949 ms  
Loss rate: 0.45%  
-- Flow 1:  
Average throughput: 85.27 Mbit/s  
95th percentile per-packet one-way delay: 50.949 ms  
Loss rate: 0.45%

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

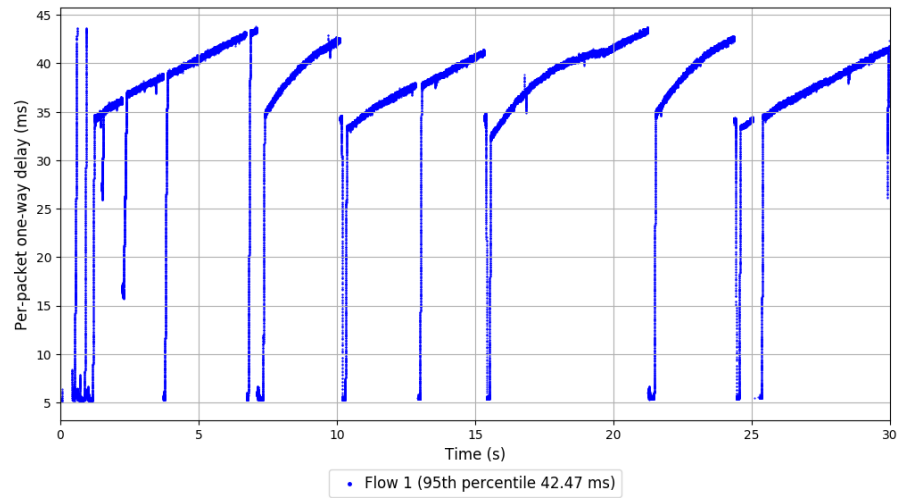
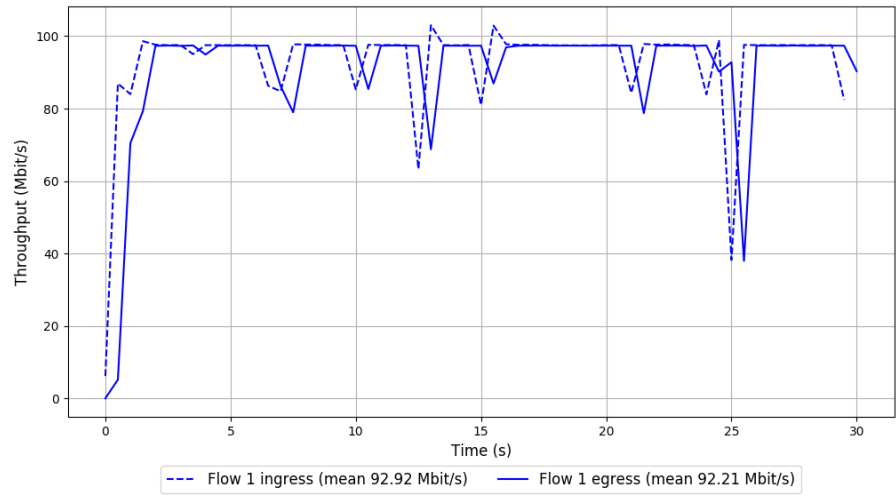


Run 2: Statistics of QUIC Cubic

Start at: 2019-08-26 18:29:26  
End at: 2019-08-26 18:29:56  
Local clock offset: -16.119 ms  
Remote clock offset: -2.466 ms

# Below is generated by plot.py at 2019-08-26 20:07:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.21 Mbit/s  
95th percentile per-packet one-way delay: 42.471 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 92.21 Mbit/s  
95th percentile per-packet one-way delay: 42.471 ms  
Loss rate: 0.64%

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

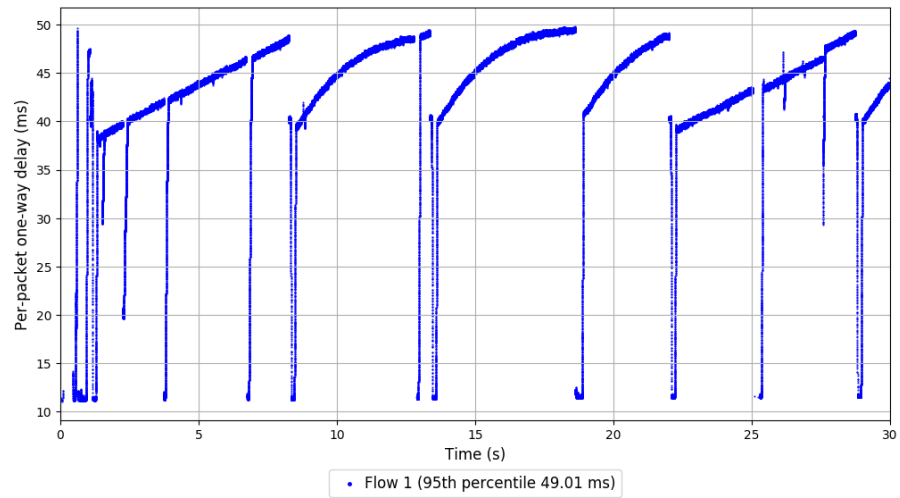
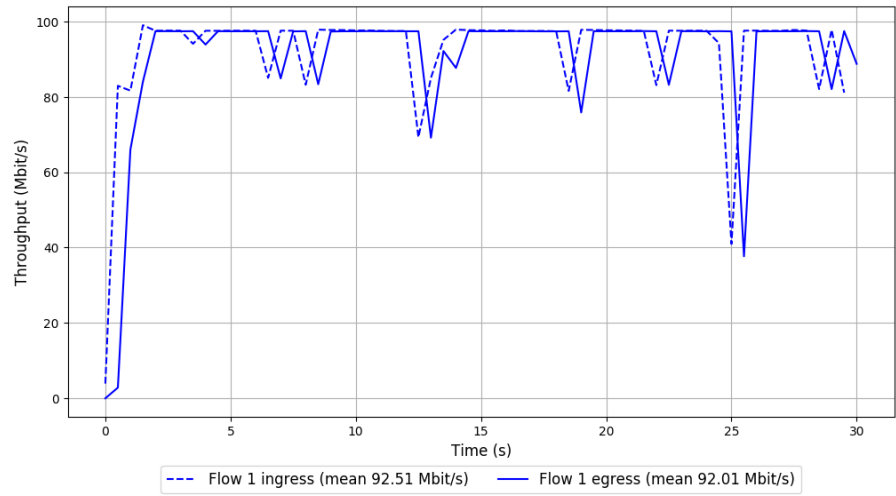


Run 3: Statistics of QUIC Cubic

Start at: 2019-08-26 18:57:03  
End at: 2019-08-26 18:57:33  
Local clock offset: -3.366 ms  
Remote clock offset: -1.077 ms

# Below is generated by plot.py at 2019-08-26 20:07:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.01 Mbit/s  
95th percentile per-packet one-way delay: 49.005 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 92.01 Mbit/s  
95th percentile per-packet one-way delay: 49.005 ms  
Loss rate: 0.44%

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

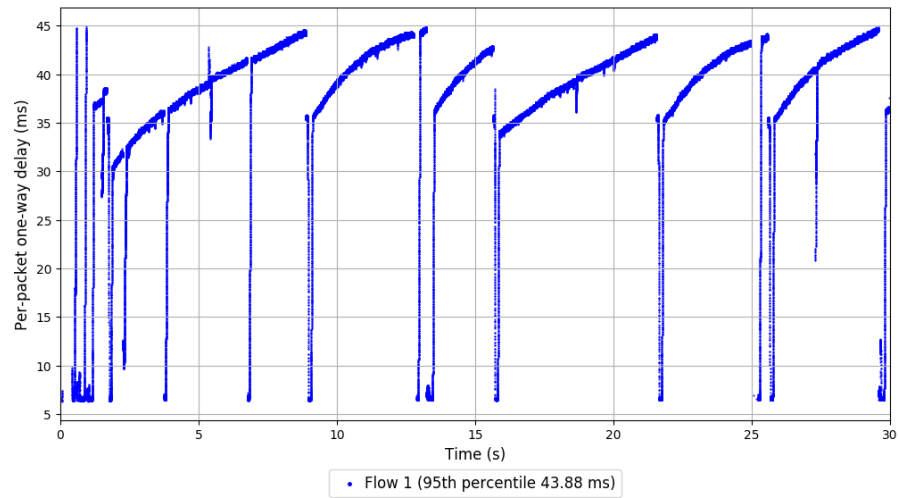
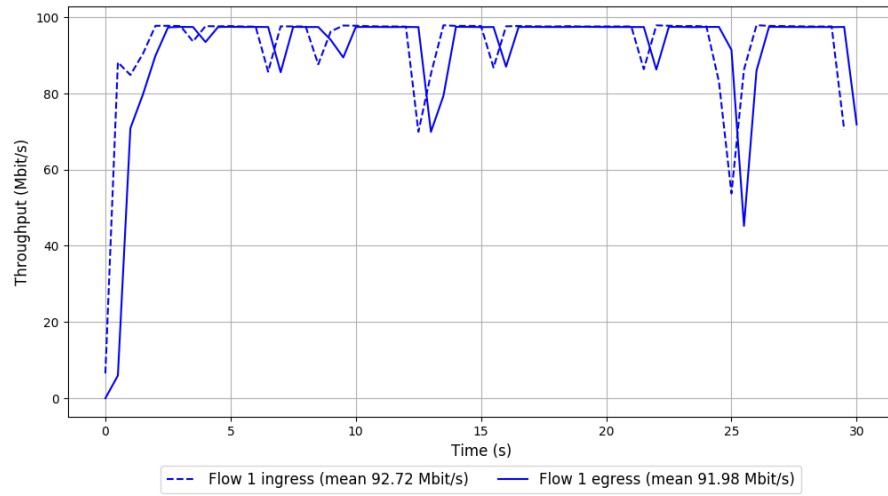


Run 4: Statistics of QUIC Cubic

Start at: 2019-08-26 19:24:37  
End at: 2019-08-26 19:25:07  
Local clock offset: -2.667 ms  
Remote clock offset: -2.334 ms

# Below is generated by plot.py at 2019-08-26 20:07:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 91.98 Mbit/s  
95th percentile per-packet one-way delay: 43.885 ms  
Loss rate: 0.69%  
-- Flow 1:  
Average throughput: 91.98 Mbit/s  
95th percentile per-packet one-way delay: 43.885 ms  
Loss rate: 0.69%

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



Run 5: Statistics of QUIC Cubic

Start at: 2019-08-26 19:52:13

End at: 2019-08-26 19:52:43

Local clock offset: -2.261 ms

Remote clock offset: -1.595 ms

# Below is generated by plot.py at 2019-08-26 20:07:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.21 Mbit/s

95th percentile per-packet one-way delay: 45.657 ms

Loss rate: 0.55%

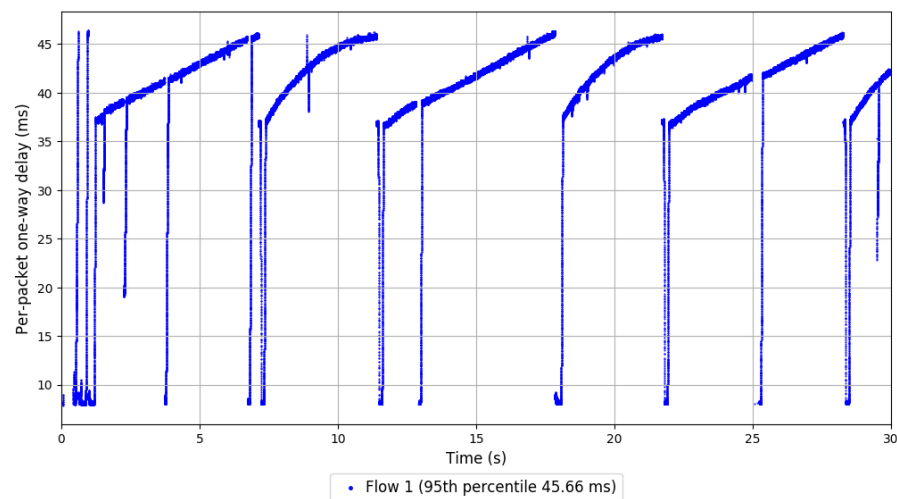
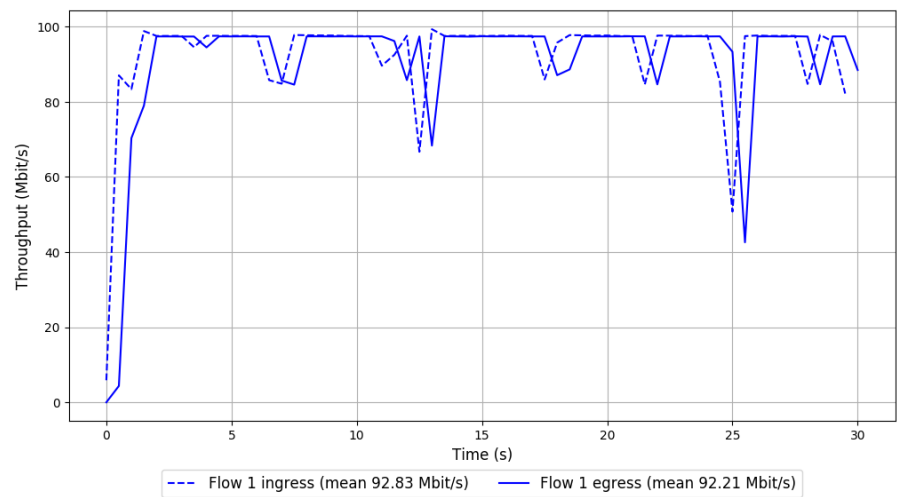
-- Flow 1:

Average throughput: 92.21 Mbit/s

95th percentile per-packet one-way delay: 45.657 ms

Loss rate: 0.55%

Run 5: Report of QUIC Cubic — Data Link

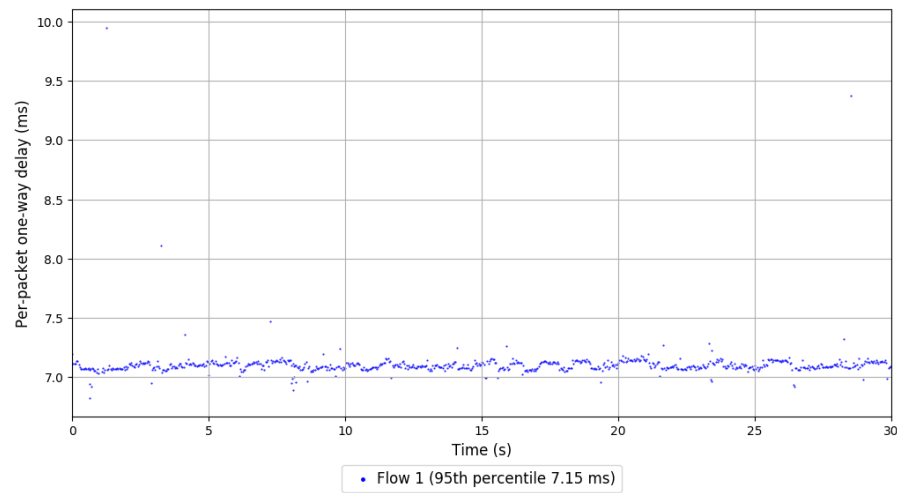
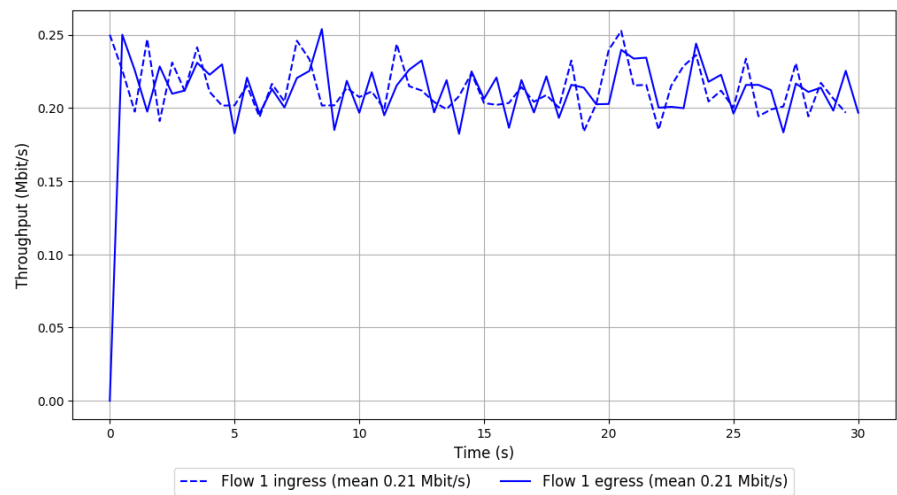


Run 1: Statistics of SCReAM

Start at: 2019-08-26 17:39:16  
End at: 2019-08-26 17:39:47  
Local clock offset: -16.958 ms  
Remote clock offset: -1.296 ms

# Below is generated by plot.py at 2019-08-26 20:07:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 7.151 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 7.151 ms  
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

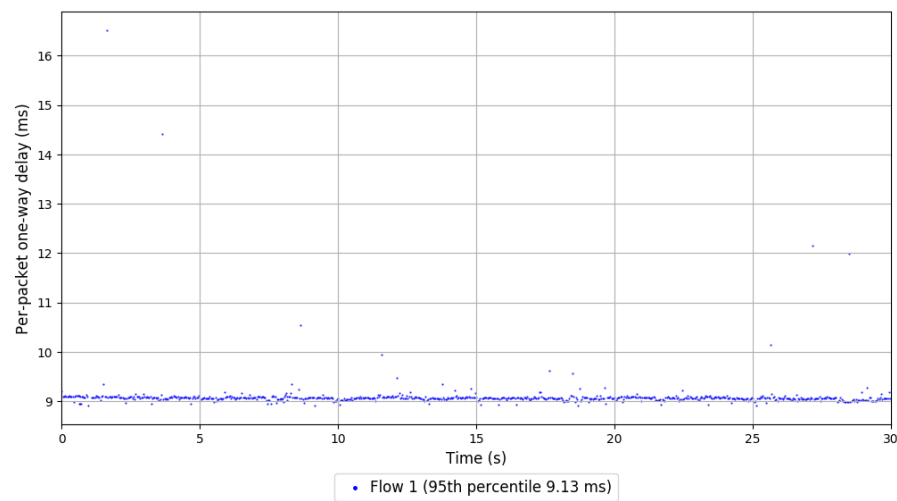
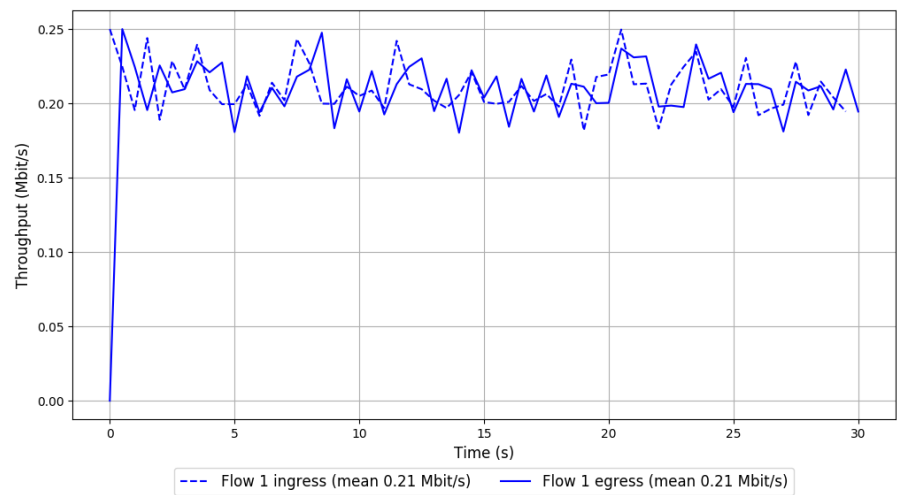


Run 2: Statistics of SReAM

Start at: 2019-08-26 18:07:18  
End at: 2019-08-26 18:07:49  
Local clock offset: -16.376 ms  
Remote clock offset: 0.48 ms

# Below is generated by plot.py at 2019-08-26 20:07:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 9.130 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 9.130 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

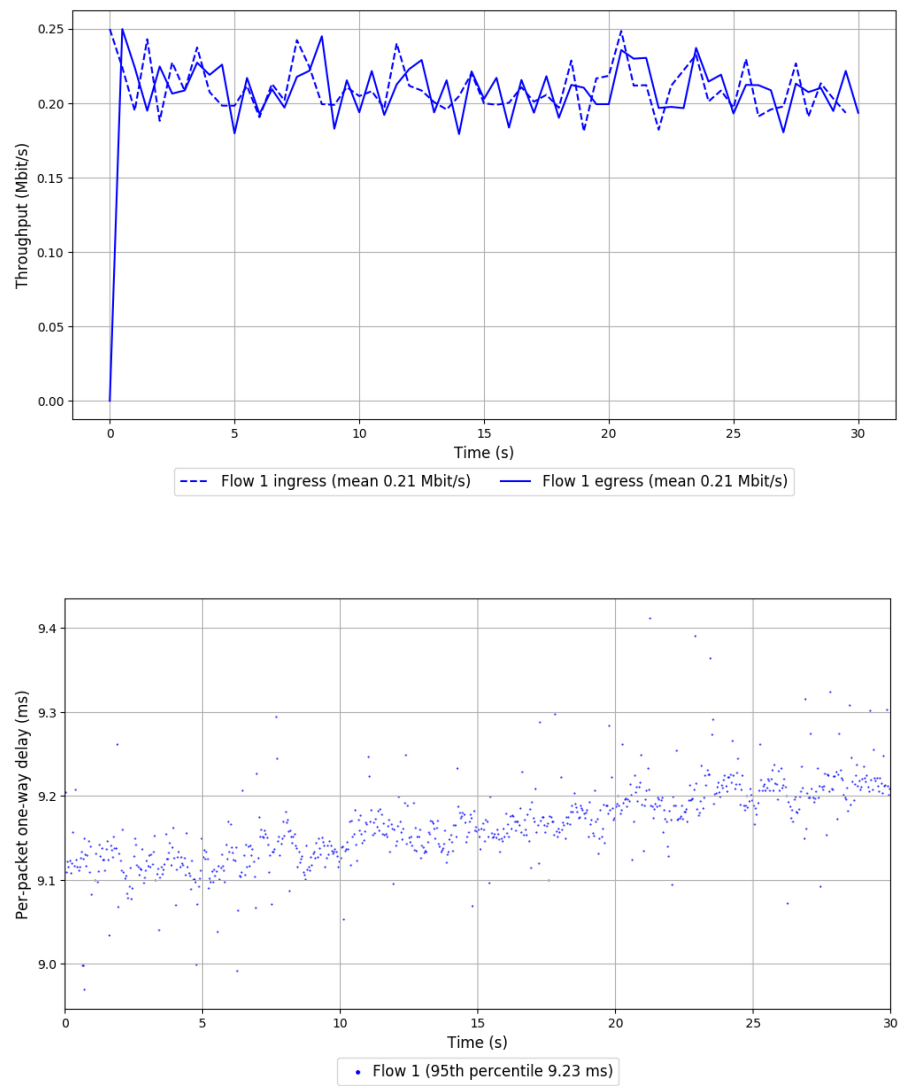


Run 3: Statistics of SCReAM

Start at: 2019-08-26 18:35:13  
End at: 2019-08-26 18:35:43  
Local clock offset: -15.499 ms  
Remote clock offset: -0.308 ms

# Below is generated by plot.py at 2019-08-26 20:07:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 9.231 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 9.231 ms  
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-08-26 19:02:47

End at: 2019-08-26 19:03:17

Local clock offset: -2.581 ms

Remote clock offset: -1.92 ms

# Below is generated by plot.py at 2019-08-26 20:07:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 11.105 ms

Loss rate: 0.00%

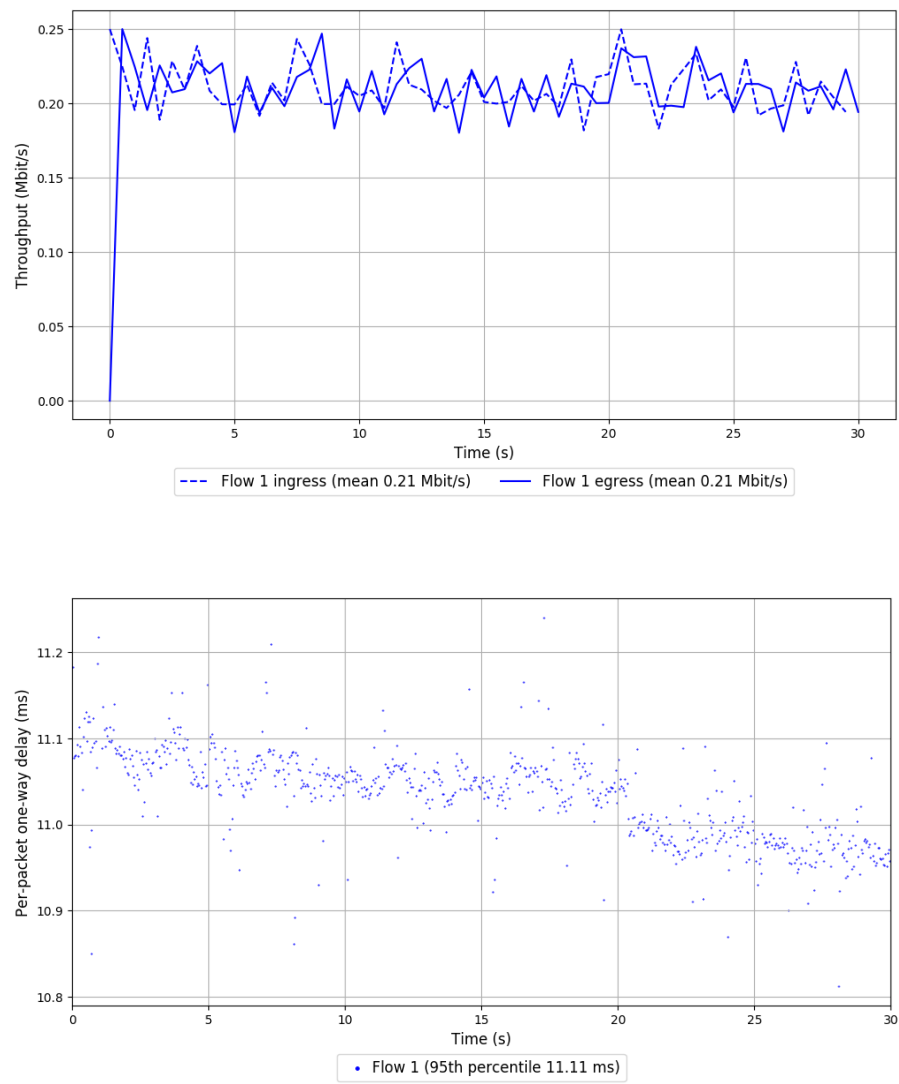
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 11.105 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-08-26 19:30:18

End at: 2019-08-26 19:30:49

Local clock offset: -3.095 ms

Remote clock offset: 0.228 ms

# Below is generated by plot.py at 2019-08-26 20:07:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 9.726 ms

Loss rate: 0.00%

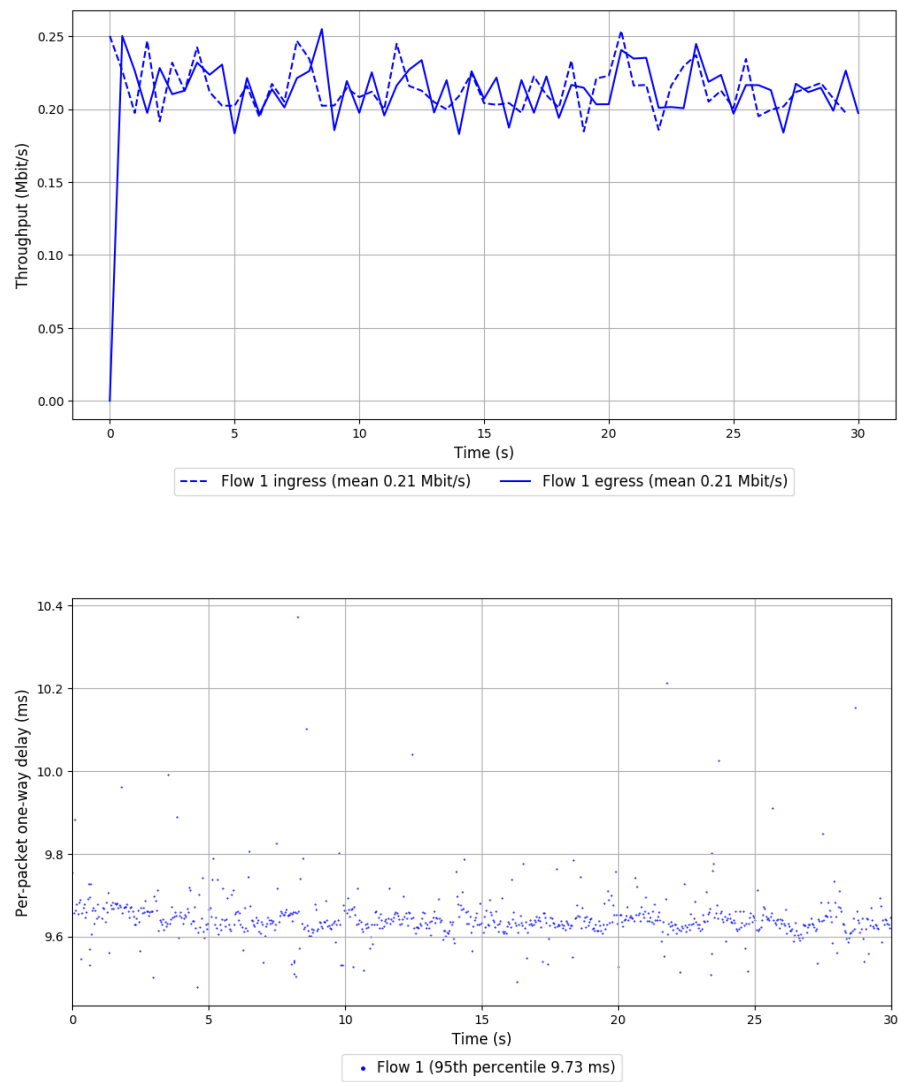
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 9.726 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

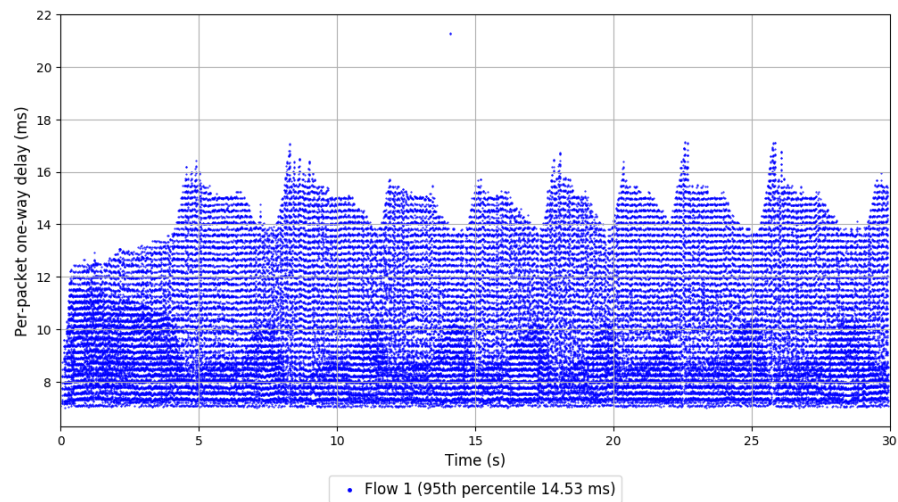
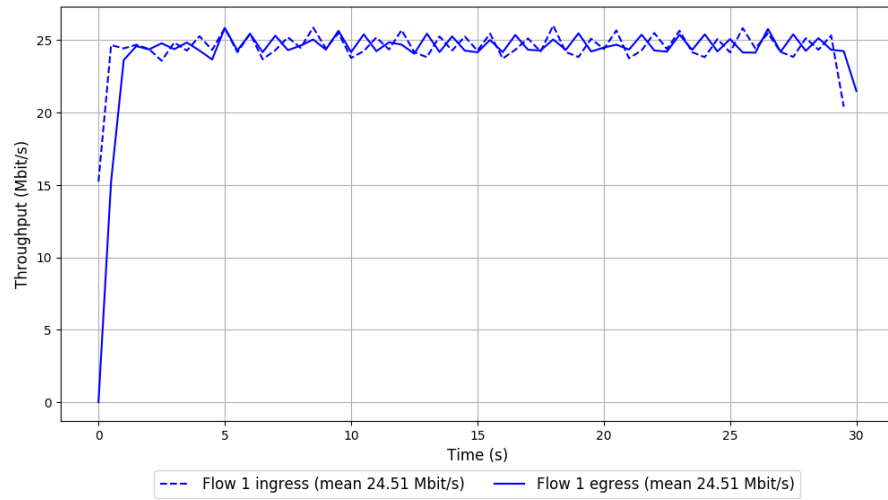


Run 1: Statistics of Sprout

Start at: 2019-08-26 18:02:35  
End at: 2019-08-26 18:03:05  
Local clock offset: -15.196 ms  
Remote clock offset: -0.329 ms

# Below is generated by plot.py at 2019-08-26 20:07:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 24.51 Mbit/s  
95th percentile per-packet one-way delay: 14.528 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 24.51 Mbit/s  
95th percentile per-packet one-way delay: 14.528 ms  
Loss rate: 0.00%

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

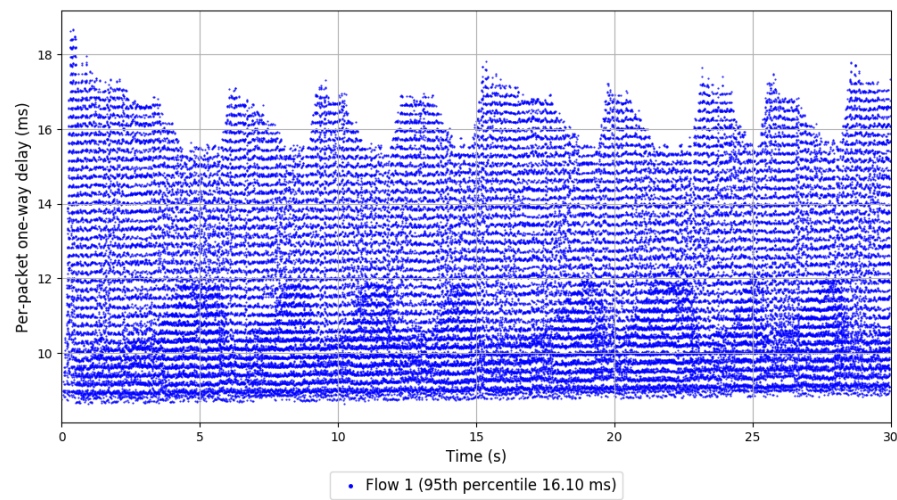
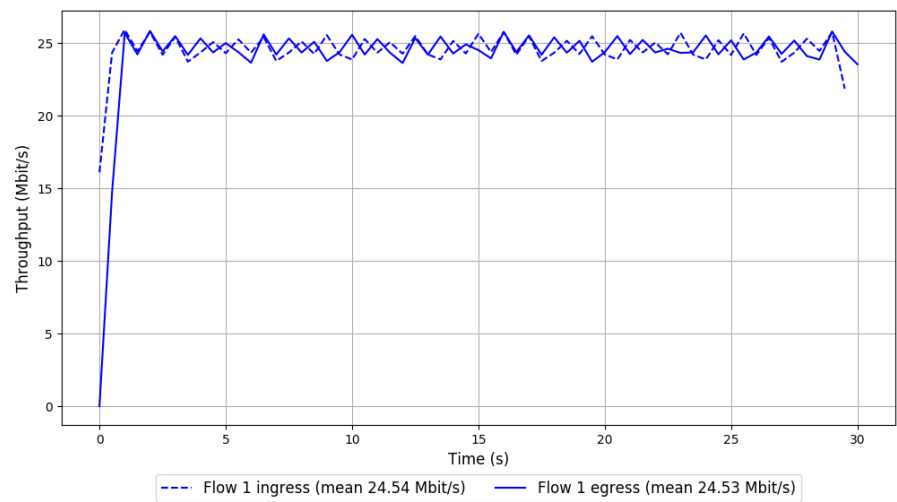


Run 2: Statistics of Sprout

Start at: 2019-08-26 18:30:37  
End at: 2019-08-26 18:31:07  
Local clock offset: -18.029 ms  
Remote clock offset: -1.45 ms

# Below is generated by plot.py at 2019-08-26 20:07:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 24.53 Mbit/s  
95th percentile per-packet one-way delay: 16.104 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 24.53 Mbit/s  
95th percentile per-packet one-way delay: 16.104 ms  
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

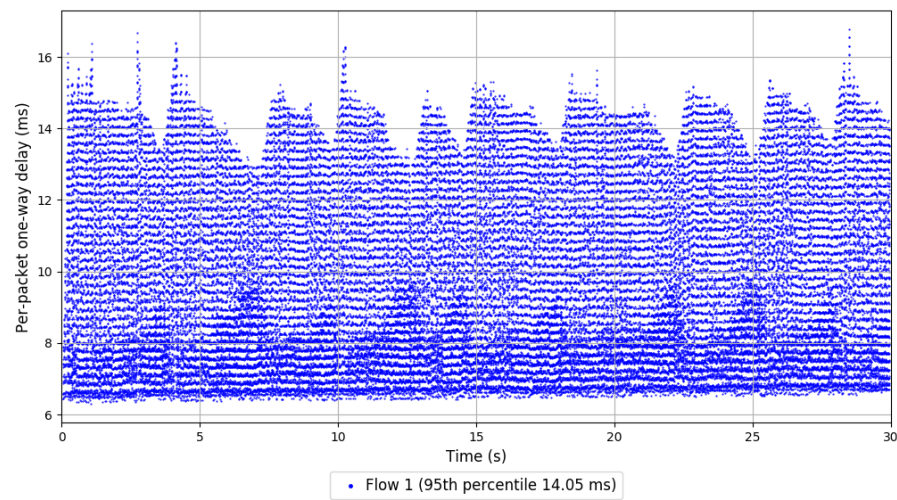
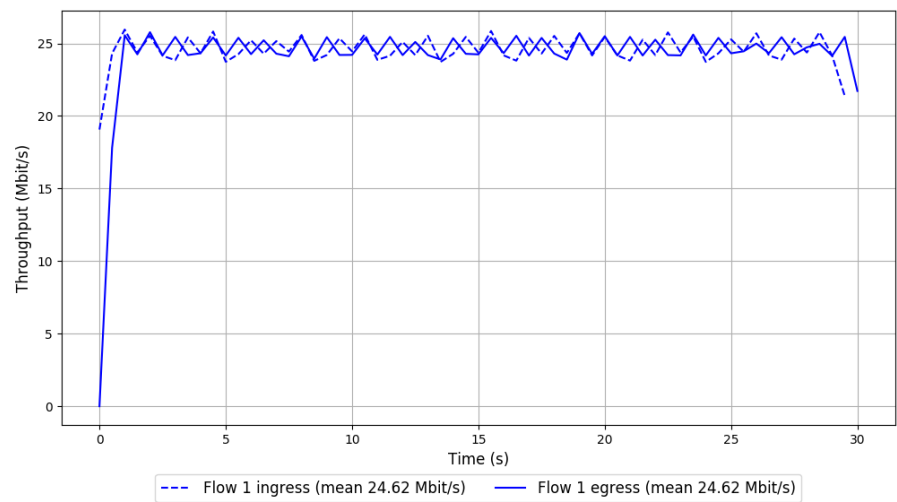


Run 3: Statistics of Sprout

Start at: 2019-08-26 18:58:13  
End at: 2019-08-26 18:58:43  
Local clock offset: -2.217 ms  
Remote clock offset: -2.341 ms

# Below is generated by plot.py at 2019-08-26 20:07:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 24.62 Mbit/s  
95th percentile per-packet one-way delay: 14.047 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 24.62 Mbit/s  
95th percentile per-packet one-way delay: 14.047 ms  
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

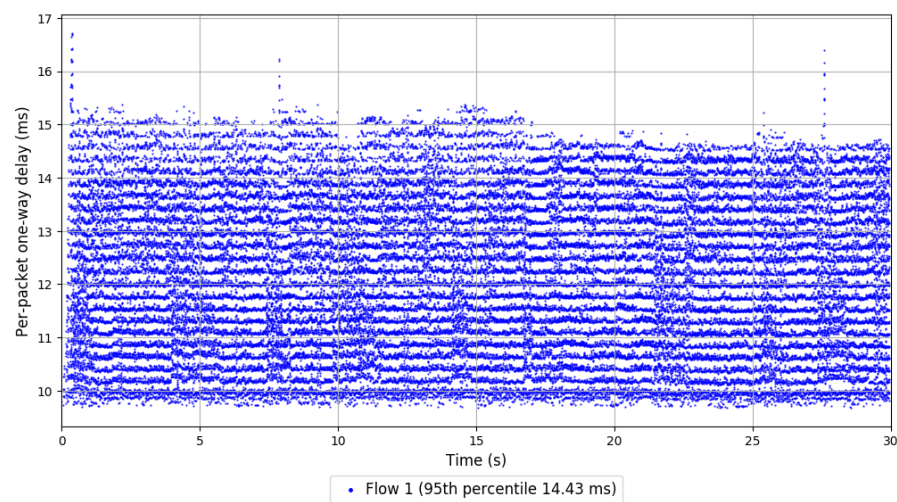
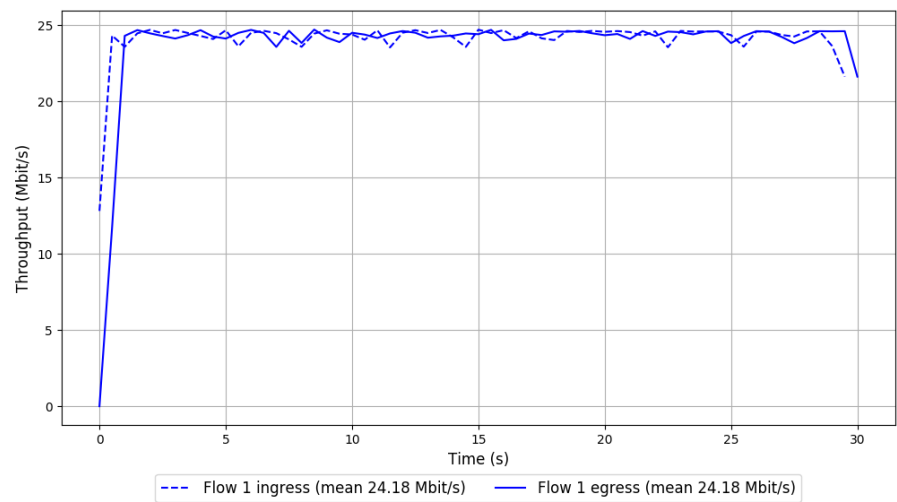


Run 4: Statistics of Sprout

Start at: 2019-08-26 19:25:47  
End at: 2019-08-26 19:26:17  
Local clock offset: -3.701 ms  
Remote clock offset: -3.337 ms

# Below is generated by plot.py at 2019-08-26 20:07:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 24.18 Mbit/s  
95th percentile per-packet one-way delay: 14.430 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 24.18 Mbit/s  
95th percentile per-packet one-way delay: 14.430 ms  
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

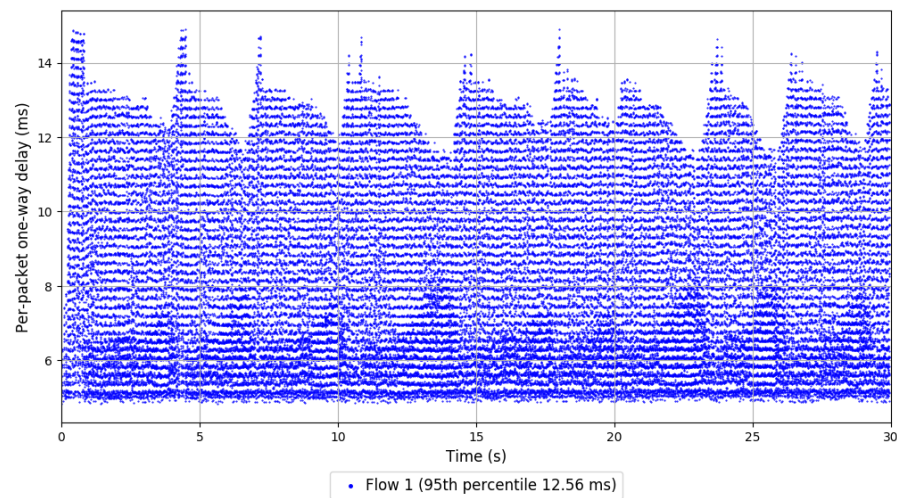
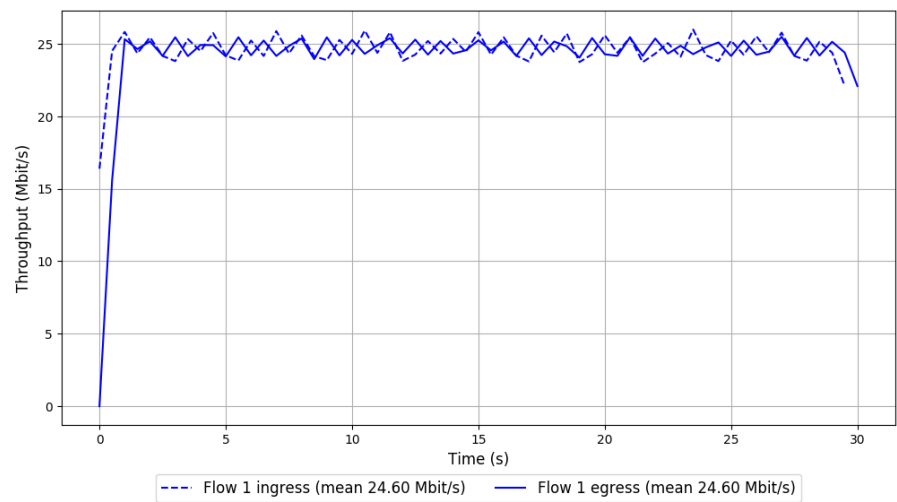


Run 5: Statistics of Sprout

Start at: 2019-08-26 19:53:22  
End at: 2019-08-26 19:53:52  
Local clock offset: -0.983 ms  
Remote clock offset: -3.532 ms

# Below is generated by plot.py at 2019-08-26 20:07:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 24.60 Mbit/s  
95th percentile per-packet one-way delay: 12.563 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 24.60 Mbit/s  
95th percentile per-packet one-way delay: 12.563 ms  
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

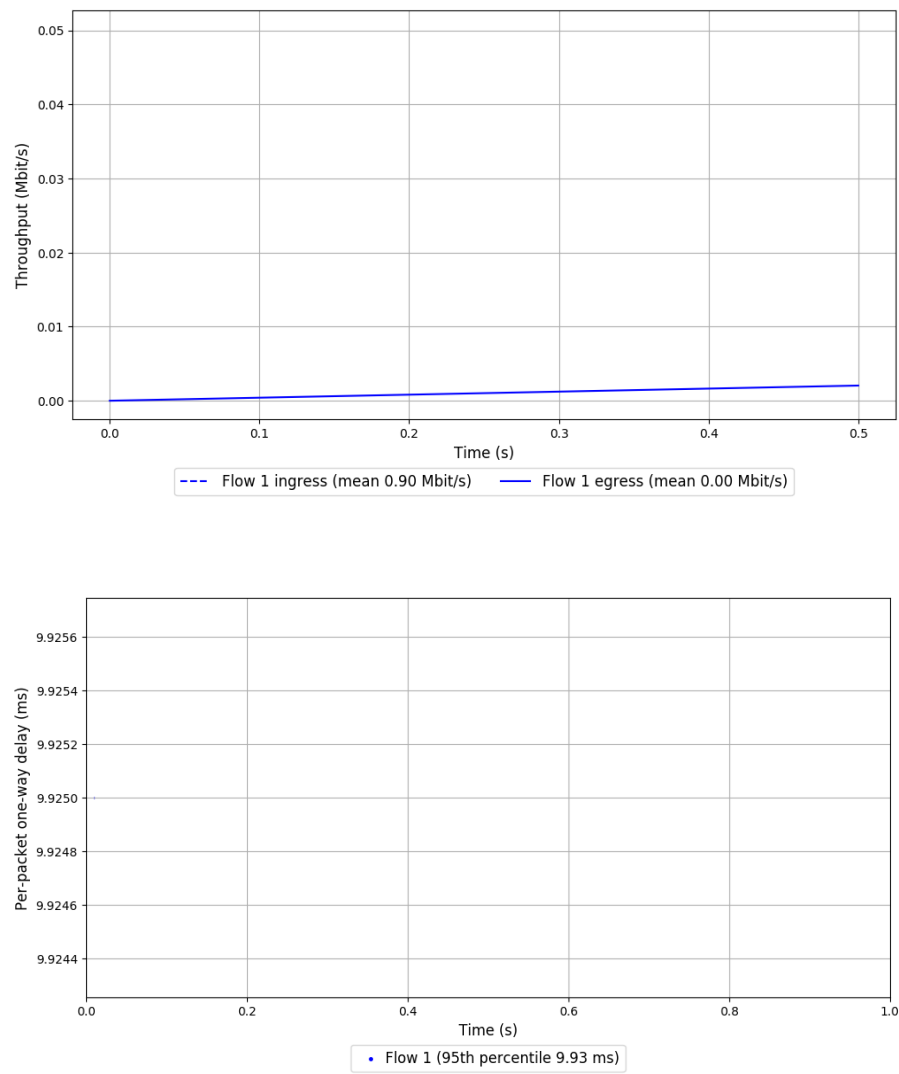
Start at: 2019-08-26 17:41:34

End at: 2019-08-26 17:42:04

Local clock offset: -15.865 ms

Remote clock offset: -0.568 ms

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



Run 2: Statistics of TaoVA-100x

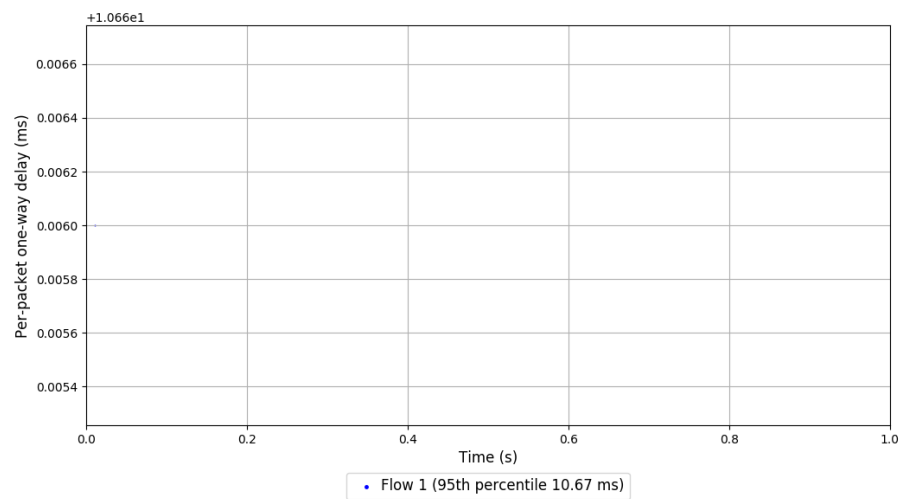
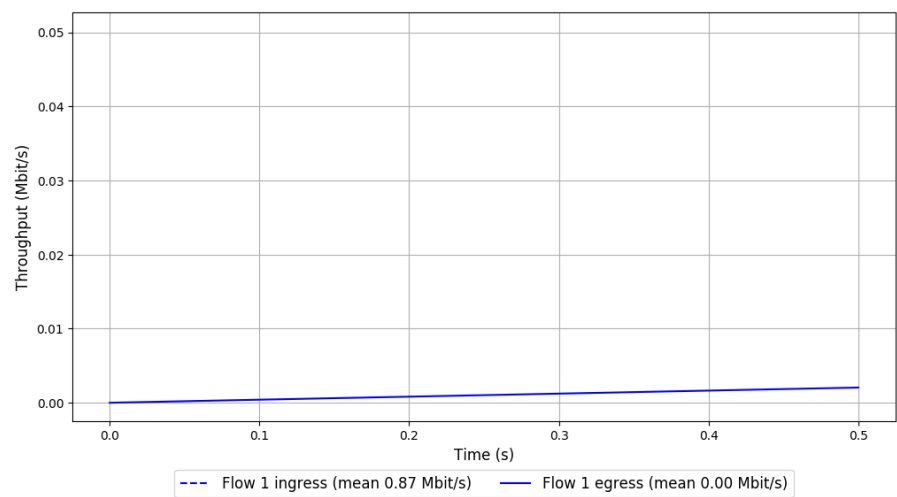
Start at: 2019-08-26 18:09:38

End at: 2019-08-26 18:10:08

Local clock offset: -15.795 ms

Remote clock offset: -0.325 ms

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



Run 3: Statistics of TaoVA-100x

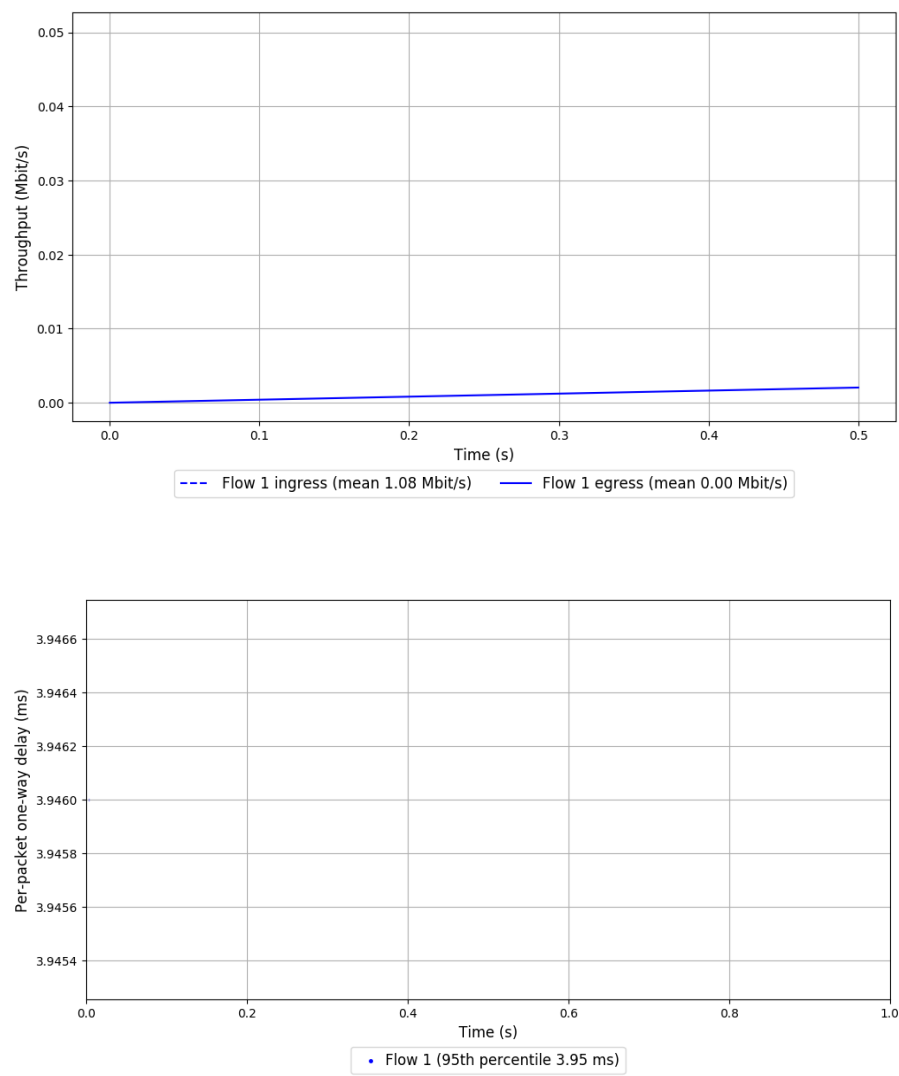
Start at: 2019-08-26 18:37:31

End at: 2019-08-26 18:38:01

Local clock offset: -13.831 ms

Remote clock offset: -3.05 ms

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



Run 4: Statistics of TaoVA-100x

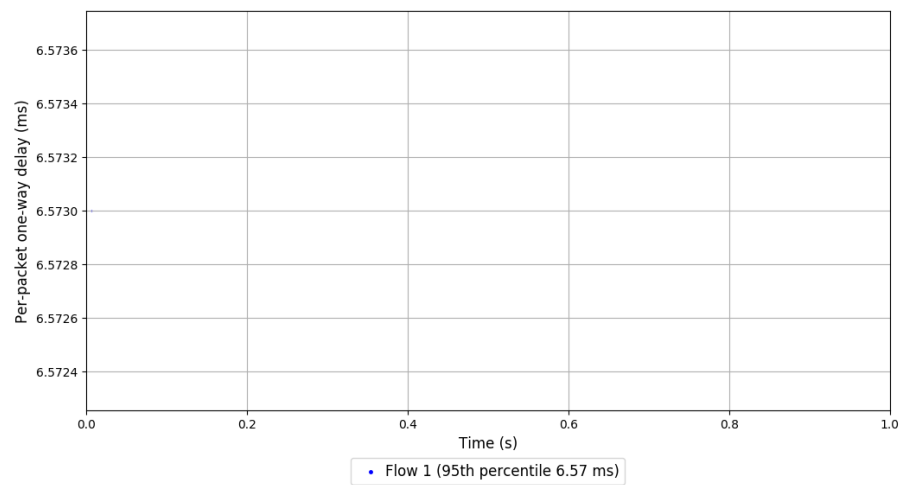
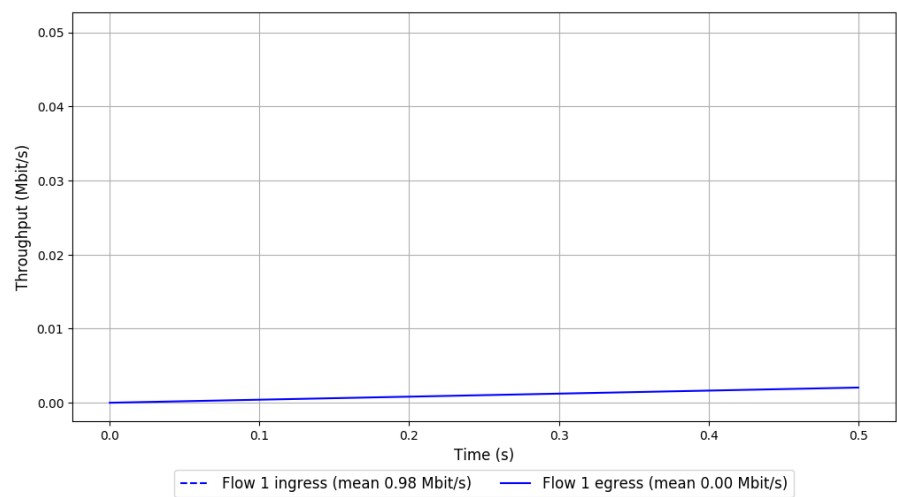
Start at: 2019-08-26 19:05:03

End at: 2019-08-26 19:05:33

Local clock offset: -0.656 ms

Remote clock offset: -1.189 ms

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



Run 5: Statistics of TaoVA-100x

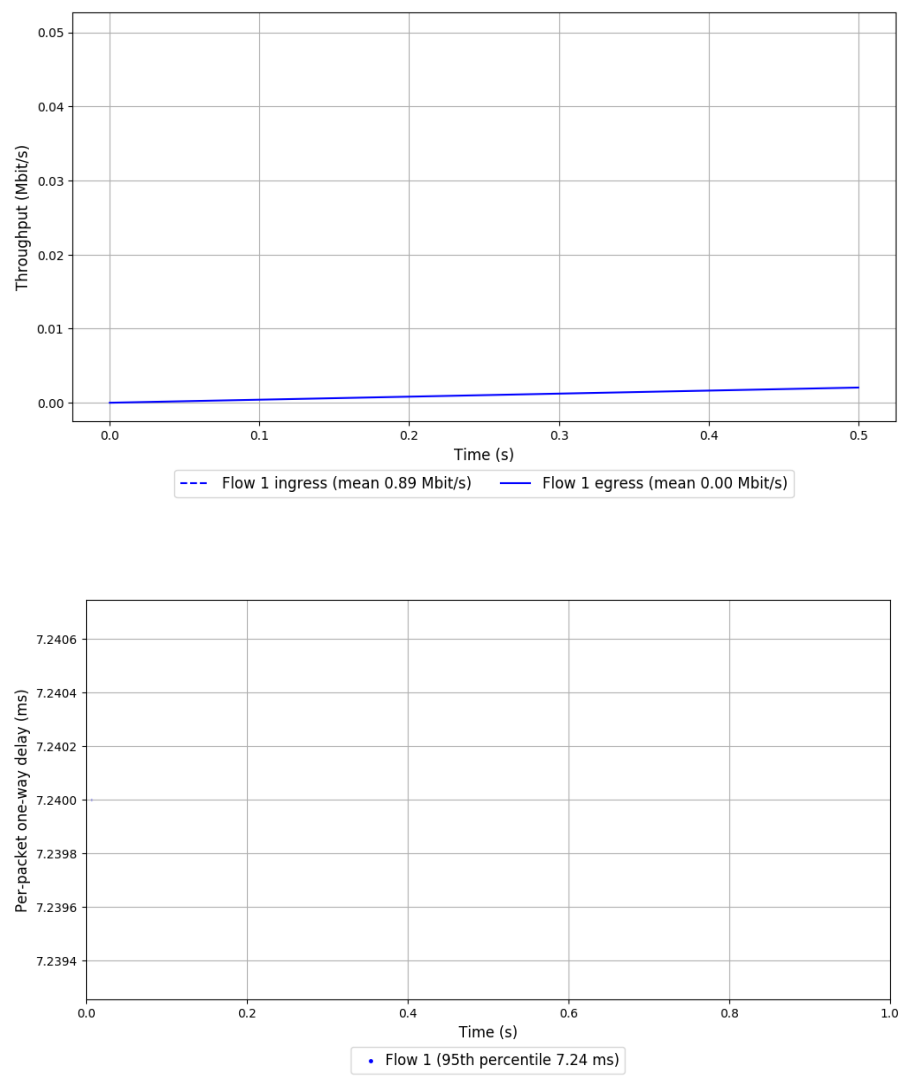
Start at: 2019-08-26 19:32:36

End at: 2019-08-26 19:33:06

Local clock offset: -3.304 ms

Remote clock offset: -2.242 ms

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

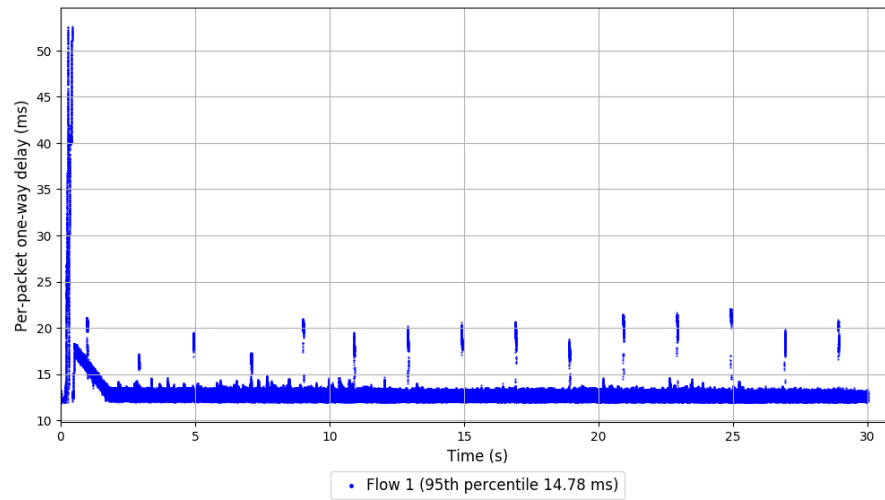
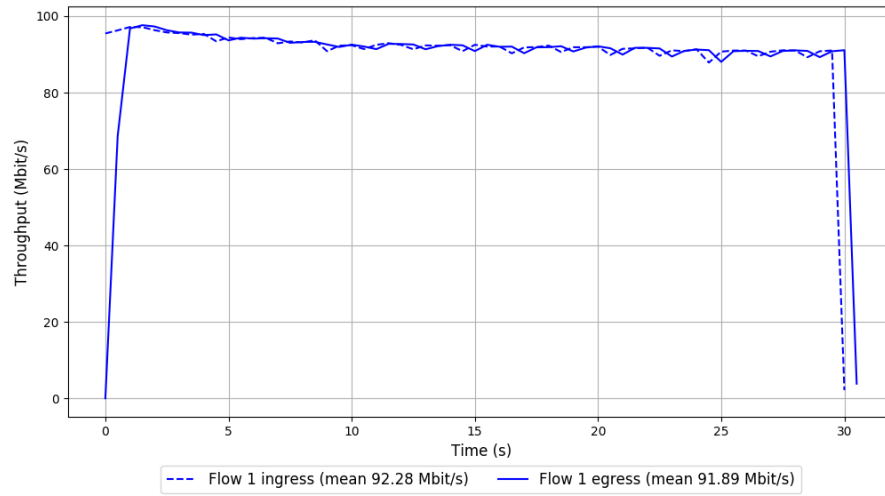


Run 1: Statistics of TCP Vegas

Start at: 2019-08-26 17:49:53  
End at: 2019-08-26 17:50:23  
Local clock offset: -16.334 ms  
Remote clock offset: 1.366 ms

# Below is generated by plot.py at 2019-08-26 20:07:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 91.89 Mbit/s  
95th percentile per-packet one-way delay: 14.777 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 91.89 Mbit/s  
95th percentile per-packet one-way delay: 14.777 ms  
Loss rate: 0.43%

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

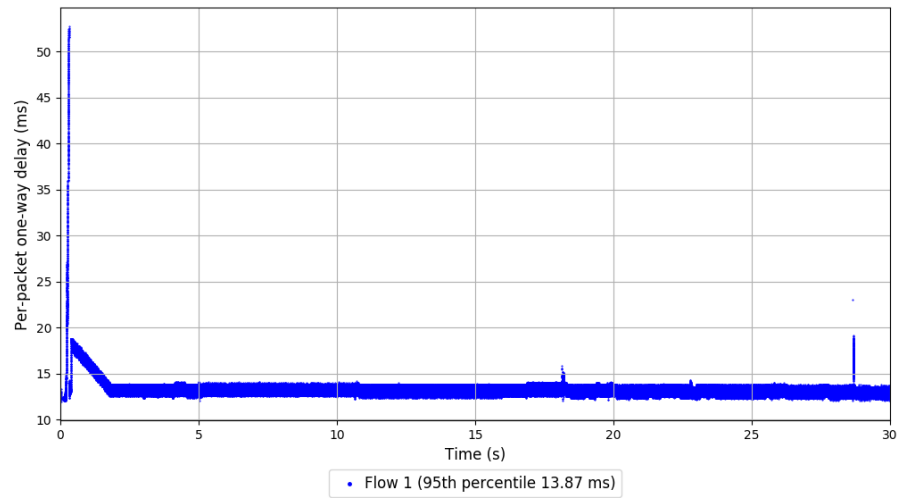
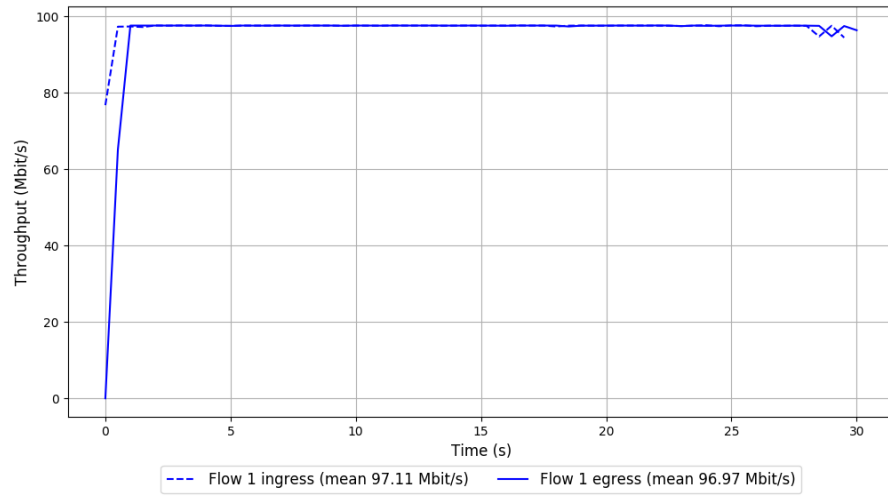


Run 2: Statistics of TCP Vegas

Start at: 2019-08-26 18:17:56  
End at: 2019-08-26 18:18:26  
Local clock offset: -17.771 ms  
Remote clock offset: -0.275 ms

# Below is generated by plot.py at 2019-08-26 20:07:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.97 Mbit/s  
95th percentile per-packet one-way delay: 13.865 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 96.97 Mbit/s  
95th percentile per-packet one-way delay: 13.865 ms  
Loss rate: 0.15%

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

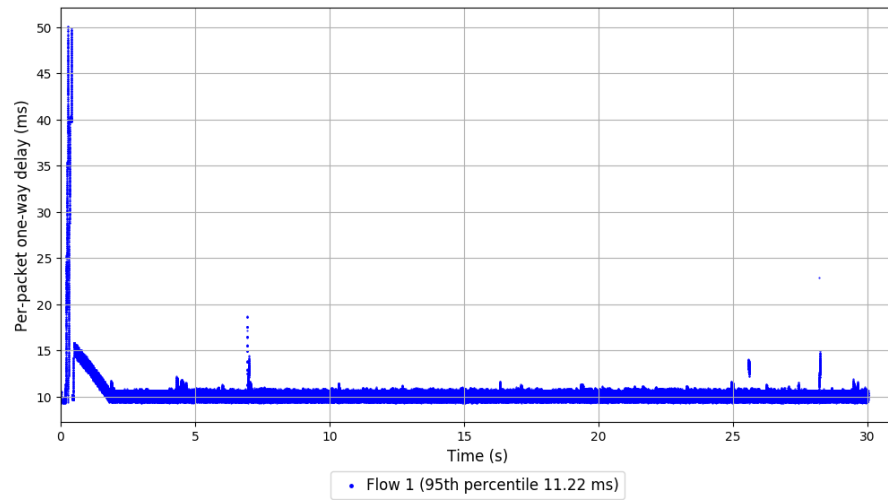
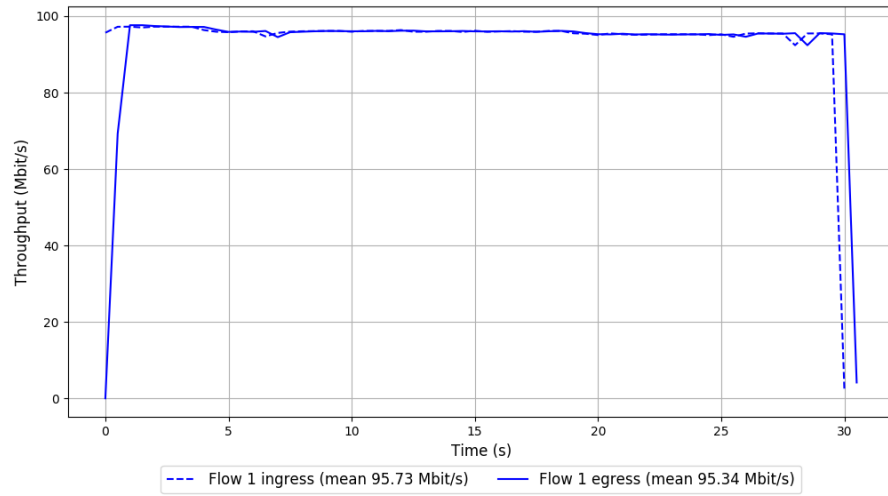


Run 3: Statistics of TCP Vegas

Start at: 2019-08-26 18:45:41  
End at: 2019-08-26 18:46:11  
Local clock offset: -14.067 ms  
Remote clock offset: 0.286 ms

# Below is generated by plot.py at 2019-08-26 20:08:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.34 Mbit/s  
95th percentile per-packet one-way delay: 11.219 ms  
Loss rate: 0.41%  
-- Flow 1:  
Average throughput: 95.34 Mbit/s  
95th percentile per-packet one-way delay: 11.219 ms  
Loss rate: 0.41%

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

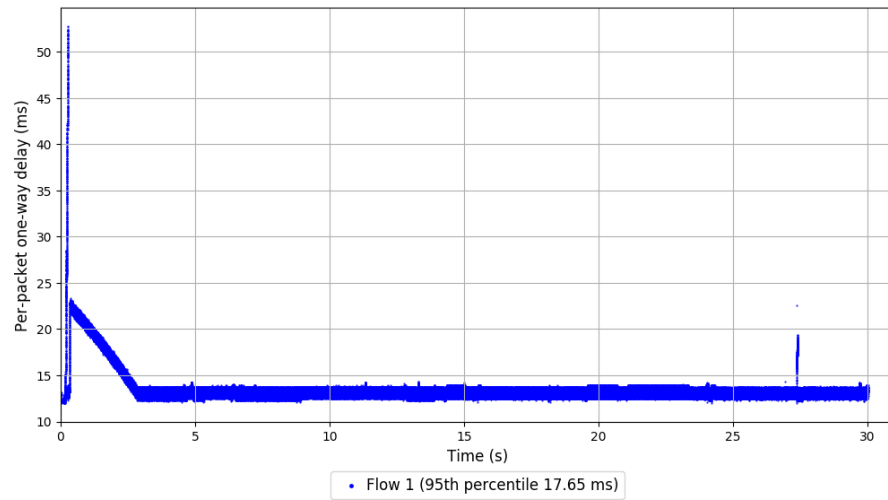
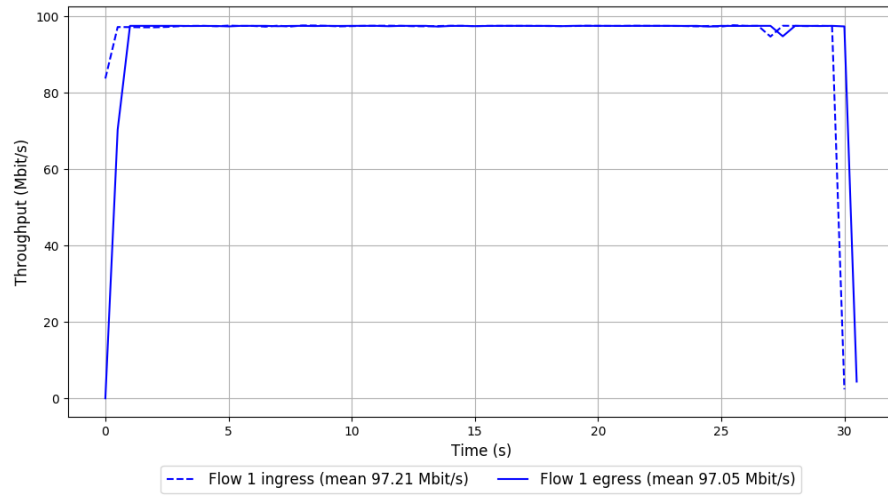


Run 4: Statistics of TCP Vegas

Start at: 2019-08-26 19:13:11  
End at: 2019-08-26 19:13:41  
Local clock offset: -3.282 ms  
Remote clock offset: -0.308 ms

# Below is generated by plot.py at 2019-08-26 20:08:11  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.05 Mbit/s  
95th percentile per-packet one-way delay: 17.649 ms  
Loss rate: 0.17%  
-- Flow 1:  
Average throughput: 97.05 Mbit/s  
95th percentile per-packet one-way delay: 17.649 ms  
Loss rate: 0.17%

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

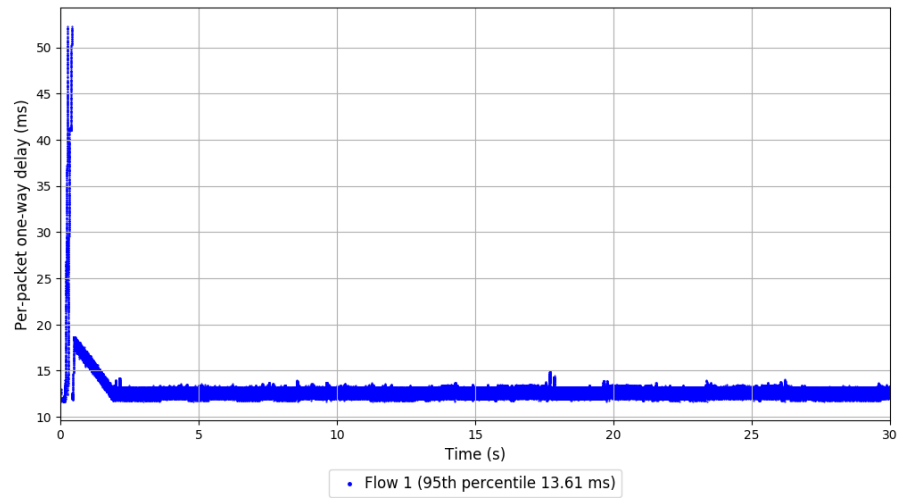
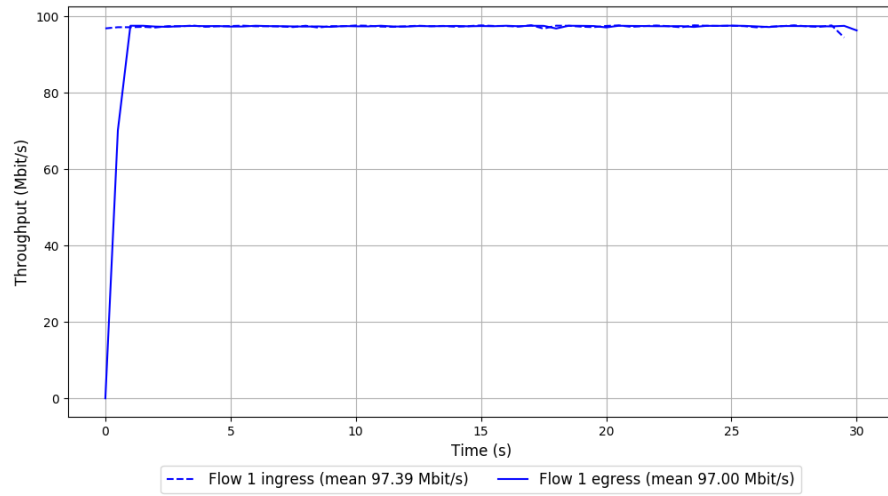


Run 5: Statistics of TCP Vegas

Start at: 2019-08-26 19:40:42  
End at: 2019-08-26 19:41:12  
Local clock offset: -3.149 ms  
Remote clock offset: -1.456 ms

# Below is generated by plot.py at 2019-08-26 20:08:11  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.00 Mbit/s  
95th percentile per-packet one-way delay: 13.608 ms  
Loss rate: 0.41%  
-- Flow 1:  
Average throughput: 97.00 Mbit/s  
95th percentile per-packet one-way delay: 13.608 ms  
Loss rate: 0.41%

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

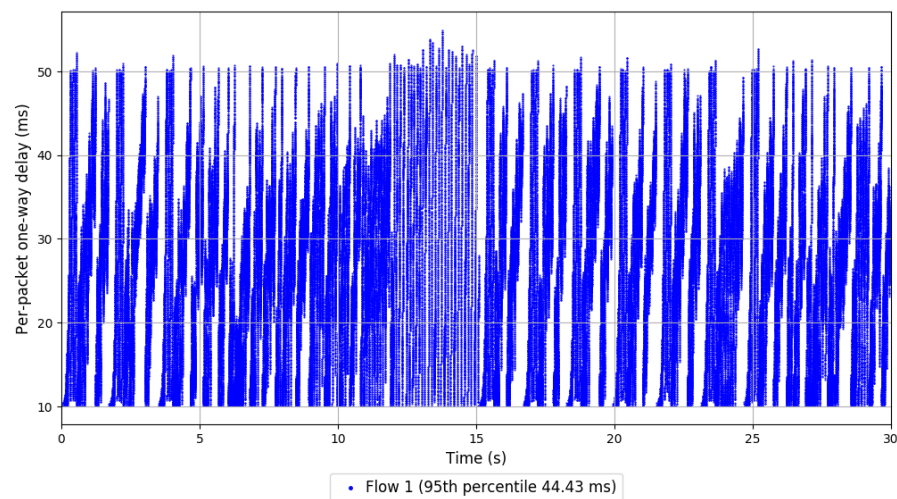
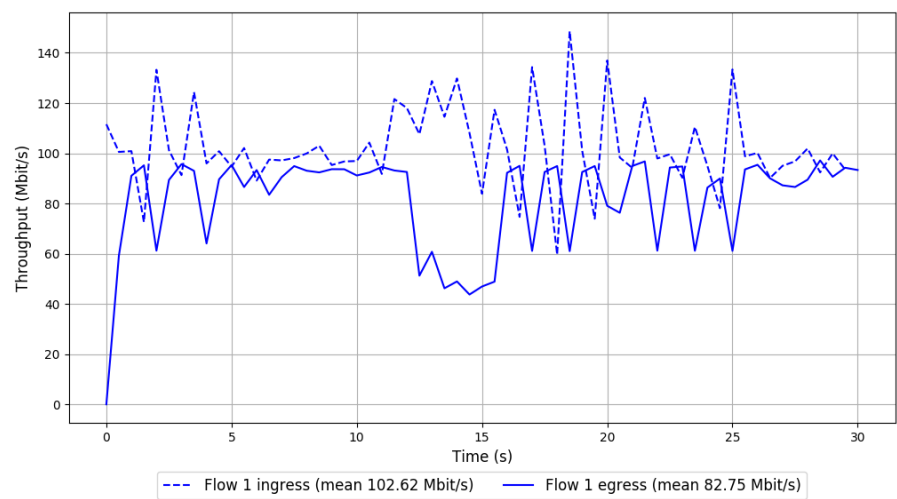


Run 1: Statistics of Verus

Start at: 2019-08-26 17:40:21  
End at: 2019-08-26 17:40:51  
Local clock offset: -16.635 ms  
Remote clock offset: -0.928 ms

# Below is generated by plot.py at 2019-08-26 20:08:11  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 82.75 Mbit/s  
95th percentile per-packet one-way delay: 44.434 ms  
Loss rate: 19.30%  
-- Flow 1:  
Average throughput: 82.75 Mbit/s  
95th percentile per-packet one-way delay: 44.434 ms  
Loss rate: 19.30%

Run 1: Report of Verus — Data Link

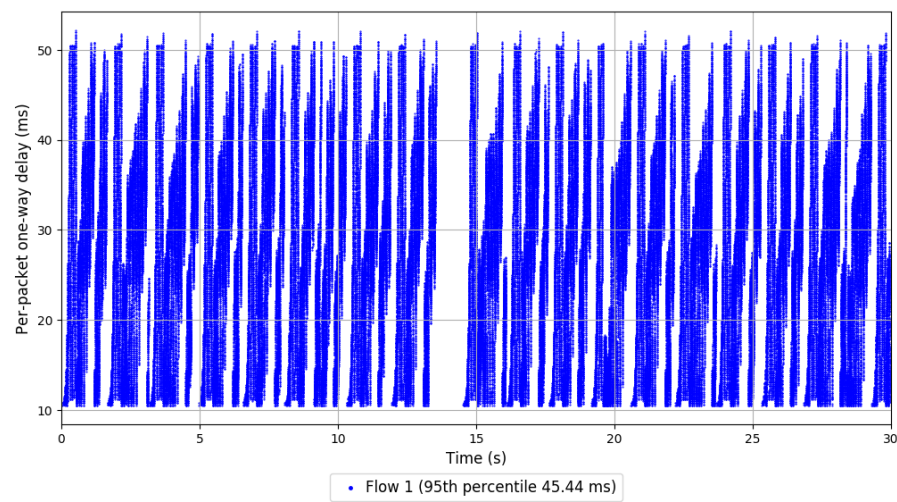
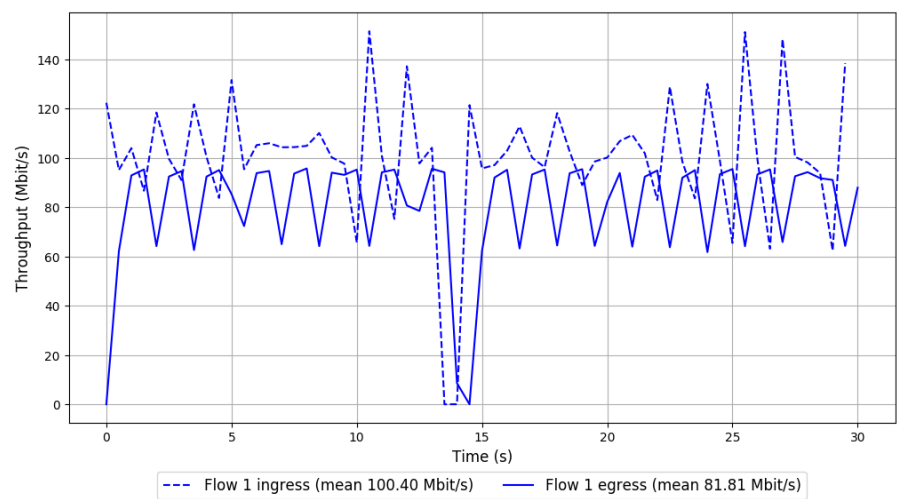


Run 2: Statistics of Verus

Start at: 2019-08-26 18:08:23  
End at: 2019-08-26 18:08:54  
Local clock offset: -17.423 ms  
Remote clock offset: 1.094 ms

# Below is generated by plot.py at 2019-08-26 20:08:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 81.81 Mbit/s  
95th percentile per-packet one-way delay: 45.437 ms  
Loss rate: 18.51%  
-- Flow 1:  
Average throughput: 81.81 Mbit/s  
95th percentile per-packet one-way delay: 45.437 ms  
Loss rate: 18.51%

Run 2: Report of Verus — Data Link

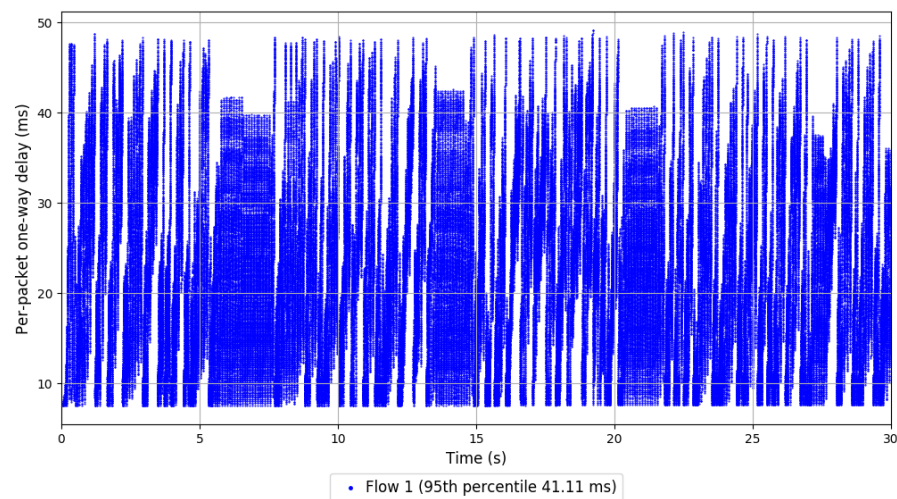
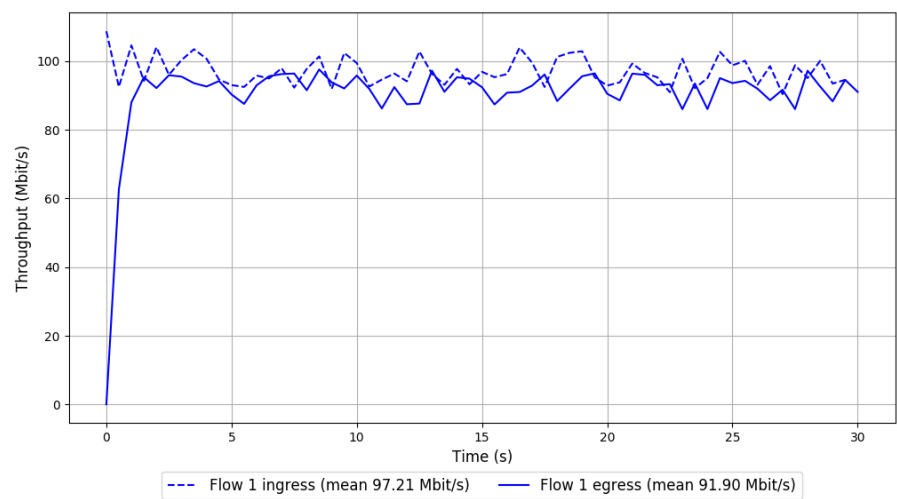


Run 3: Statistics of Verus

Start at: 2019-08-26 18:36:18  
End at: 2019-08-26 18:36:48  
Local clock offset: -14.993 ms  
Remote clock offset: -1.437 ms

# Below is generated by plot.py at 2019-08-26 20:08:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 91.90 Mbit/s  
95th percentile per-packet one-way delay: 41.108 ms  
Loss rate: 5.37%  
-- Flow 1:  
Average throughput: 91.90 Mbit/s  
95th percentile per-packet one-way delay: 41.108 ms  
Loss rate: 5.37%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-08-26 19:03:52

End at: 2019-08-26 19:04:22

Local clock offset: -1.979 ms

Remote clock offset: 0.336 ms

# Below is generated by plot.py at 2019-08-26 20:08:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.92 Mbit/s

95th percentile per-packet one-way delay: 43.021 ms

Loss rate: 6.63%

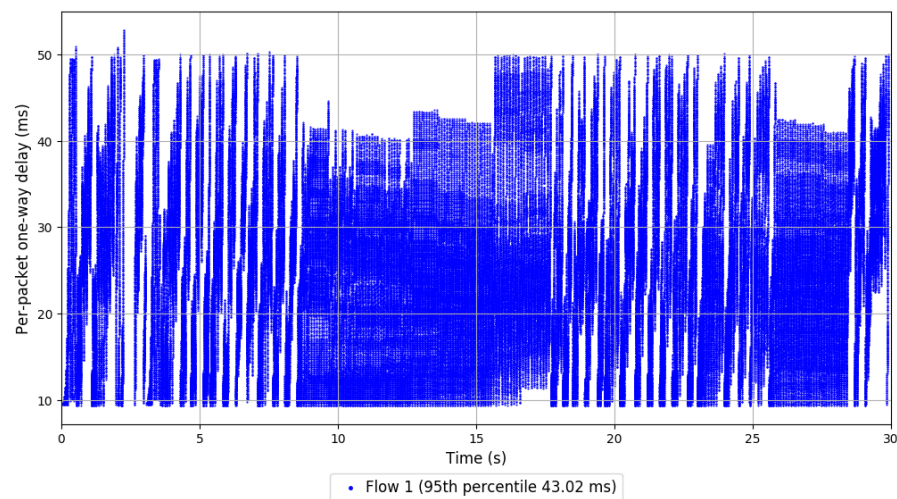
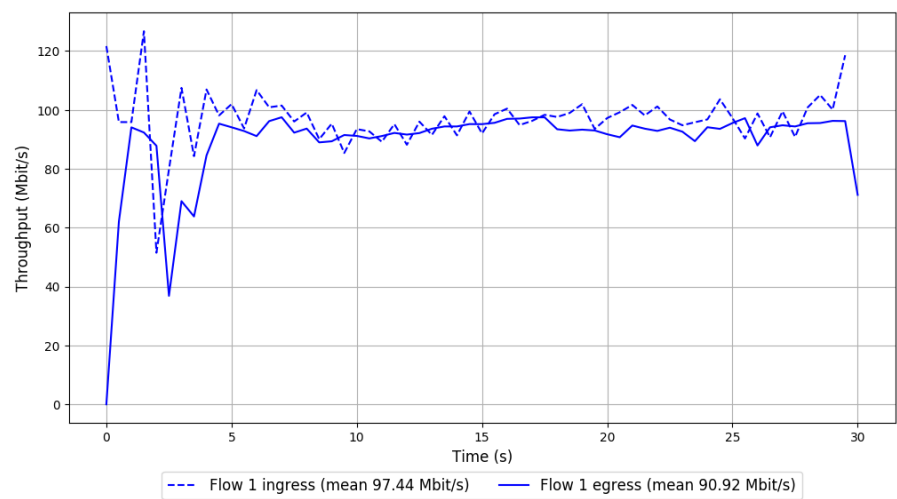
-- Flow 1:

Average throughput: 90.92 Mbit/s

95th percentile per-packet one-way delay: 43.021 ms

Loss rate: 6.63%

Run 4: Report of Verus — Data Link

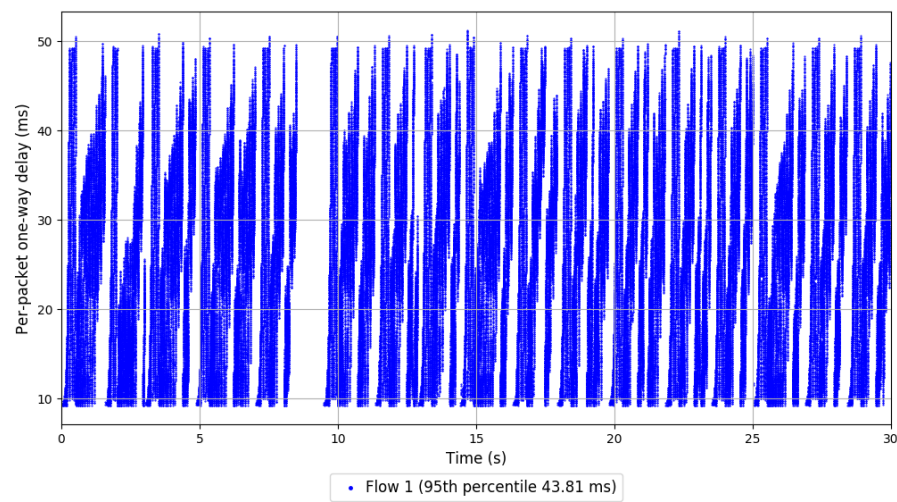
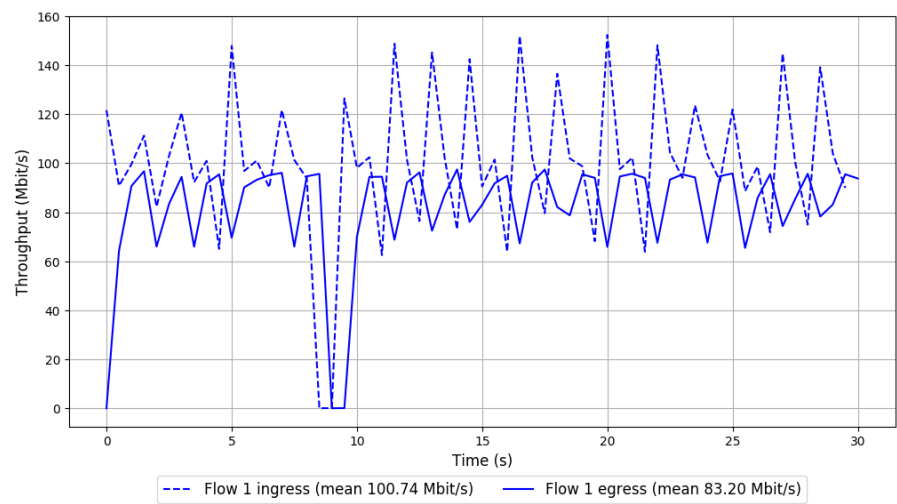


Run 5: Statistics of Verus

Start at: 2019-08-26 19:31:23  
End at: 2019-08-26 19:31:53  
Local clock offset: -3.582 ms  
Remote clock offset: -0.595 ms

# Below is generated by plot.py at 2019-08-26 20:08:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 83.20 Mbit/s  
95th percentile per-packet one-way delay: 43.812 ms  
Loss rate: 17.32%  
-- Flow 1:  
Average throughput: 83.20 Mbit/s  
95th percentile per-packet one-way delay: 43.812 ms  
Loss rate: 17.32%

Run 5: Report of Verus — Data Link

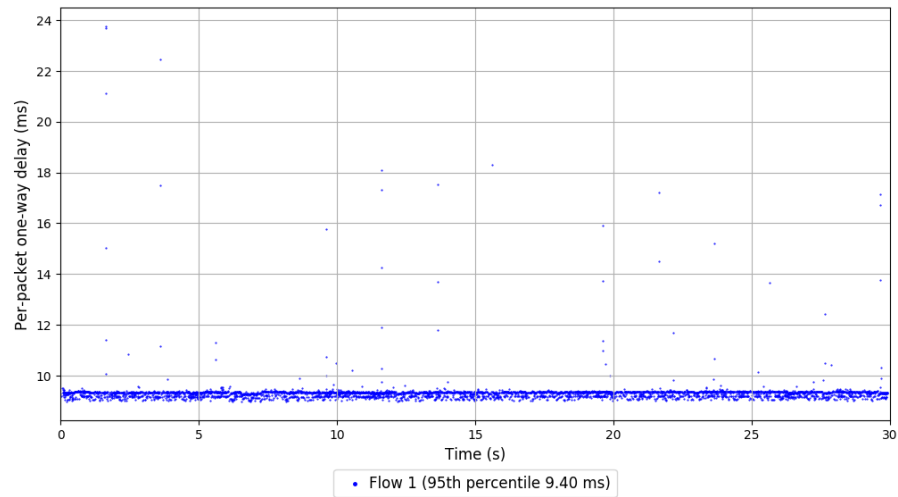
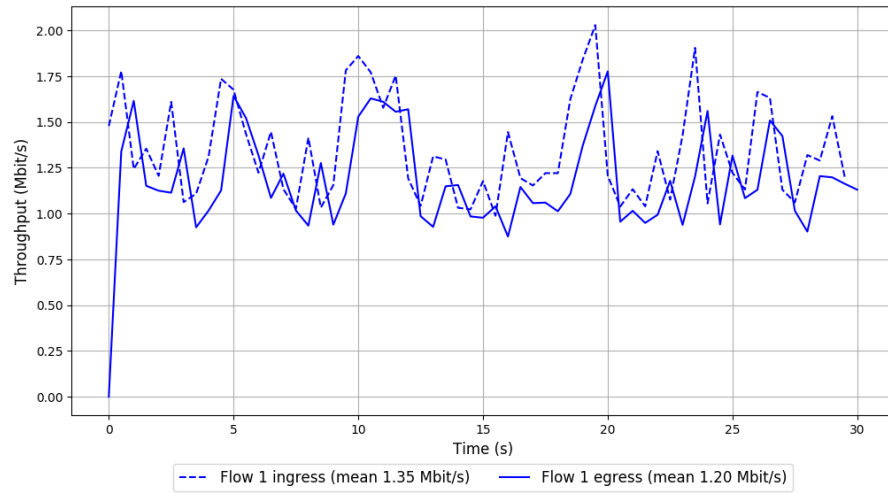


Run 1: Statistics of PCC-Vivace

Start at: 2019-08-26 17:59:04  
End at: 2019-08-26 17:59:34  
Local clock offset: -15.574 ms  
Remote clock offset: -1.668 ms

# Below is generated by plot.py at 2019-08-26 20:08:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.20 Mbit/s  
95th percentile per-packet one-way delay: 9.403 ms  
Loss rate: 11.21%  
-- Flow 1:  
Average throughput: 1.20 Mbit/s  
95th percentile per-packet one-way delay: 9.403 ms  
Loss rate: 11.21%

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

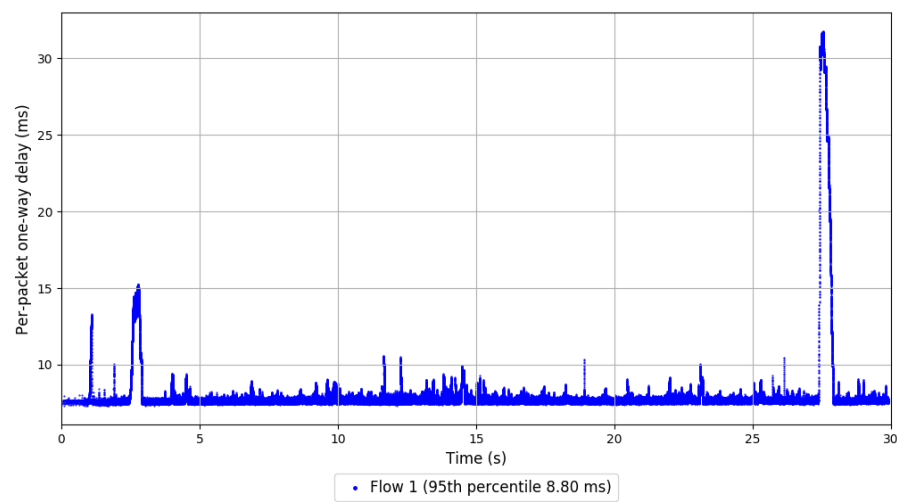
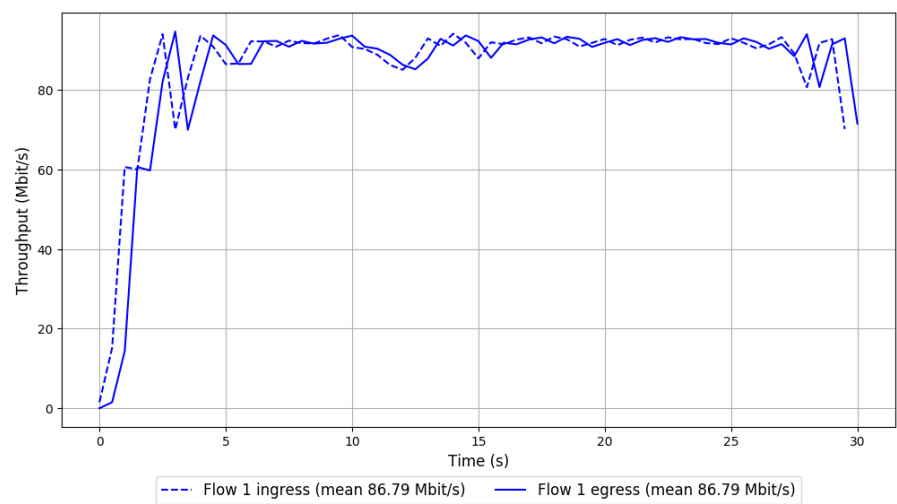


Run 2: Statistics of PCC-Vivace

Start at: 2019-08-26 18:27:00  
End at: 2019-08-26 18:27:30  
Local clock offset: -16.703 ms  
Remote clock offset: -0.438 ms

# Below is generated by plot.py at 2019-08-26 20:08:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 86.79 Mbit/s  
95th percentile per-packet one-way delay: 8.798 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 86.79 Mbit/s  
95th percentile per-packet one-way delay: 8.798 ms  
Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link

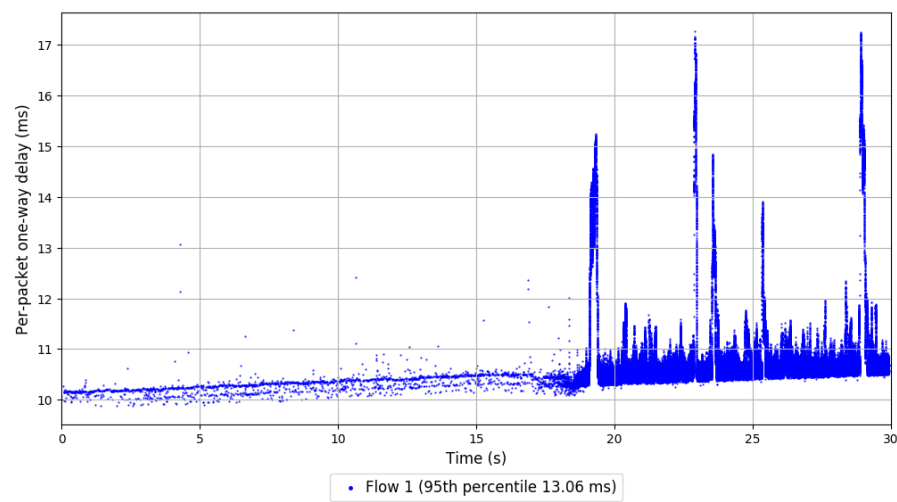
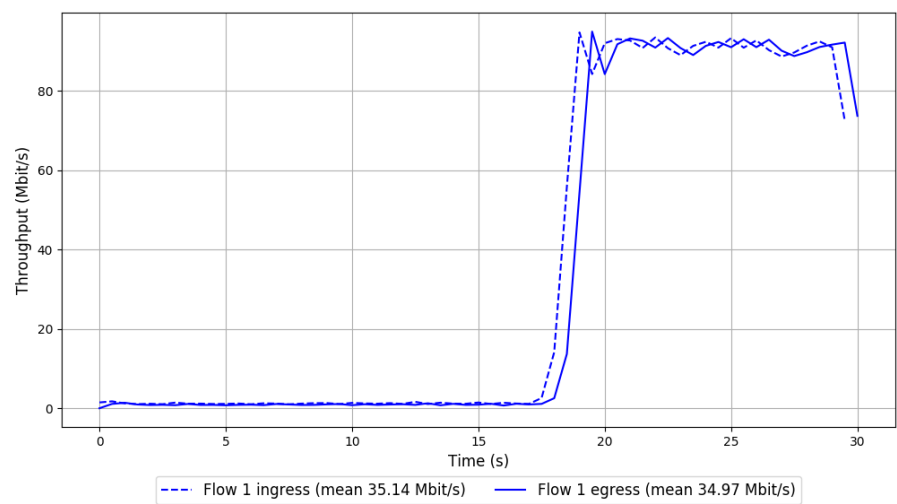


Run 3: Statistics of PCC-Vivace

Start at: 2019-08-26 18:54:47  
End at: 2019-08-26 18:55:17  
Local clock offset: -5.874 ms  
Remote clock offset: -2.574 ms

# Below is generated by plot.py at 2019-08-26 20:08:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 34.97 Mbit/s  
95th percentile per-packet one-way delay: 13.058 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 34.97 Mbit/s  
95th percentile per-packet one-way delay: 13.058 ms  
Loss rate: 0.49%

Run 3: Report of PCC-Vivace — Data Link

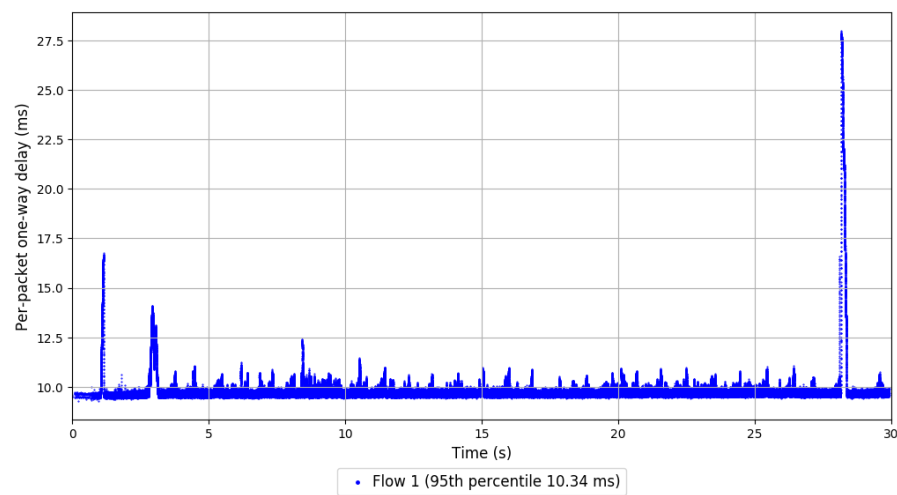
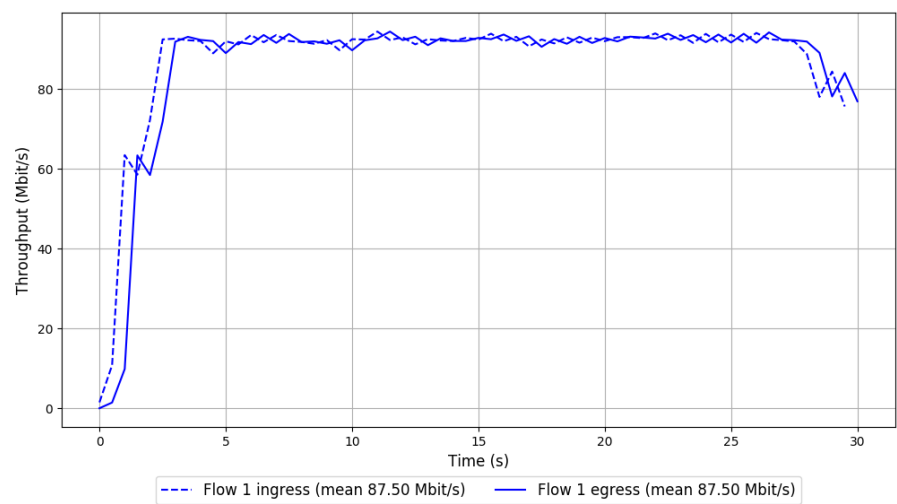


Run 4: Statistics of PCC-Vivace

Start at: 2019-08-26 19:22:18  
End at: 2019-08-26 19:22:48  
Local clock offset: -3.749 ms  
Remote clock offset: -3.345 ms

# Below is generated by plot.py at 2019-08-26 20:08:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 87.50 Mbit/s  
95th percentile per-packet one-way delay: 10.338 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 87.50 Mbit/s  
95th percentile per-packet one-way delay: 10.338 ms  
Loss rate: 0.01%

Run 4: Report of PCC-Vivace — Data Link

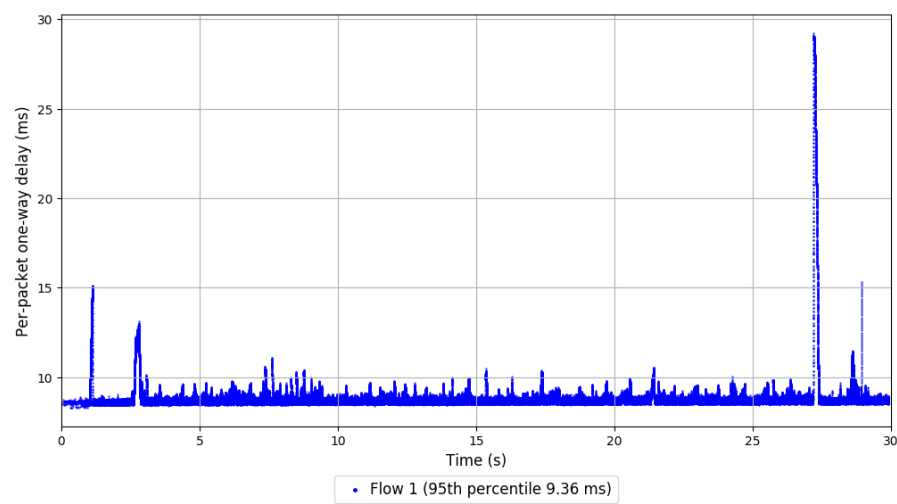
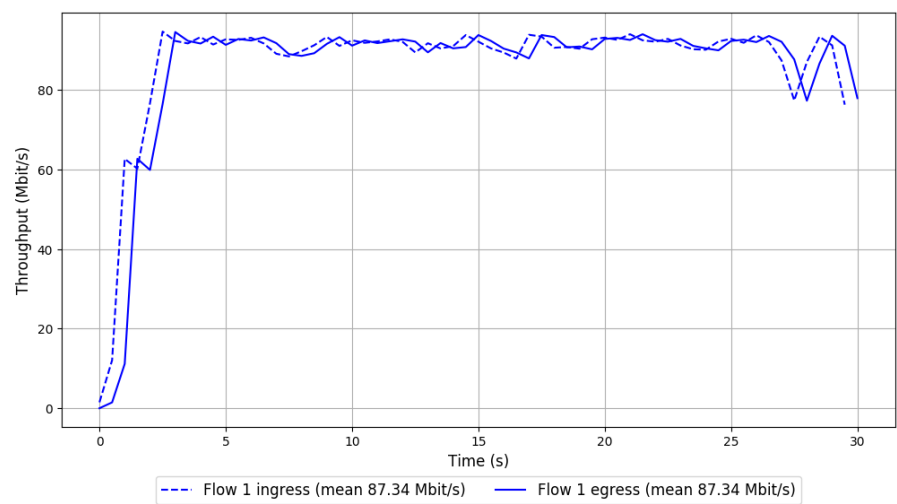


Run 5: Statistics of PCC-Vivace

Start at: 2019-08-26 19:49:53  
End at: 2019-08-26 19:50:23  
Local clock offset: -3.394 ms  
Remote clock offset: -1.972 ms

# Below is generated by plot.py at 2019-08-26 20:08:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 87.34 Mbit/s  
95th percentile per-packet one-way delay: 9.359 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 87.34 Mbit/s  
95th percentile per-packet one-way delay: 9.359 ms  
Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link

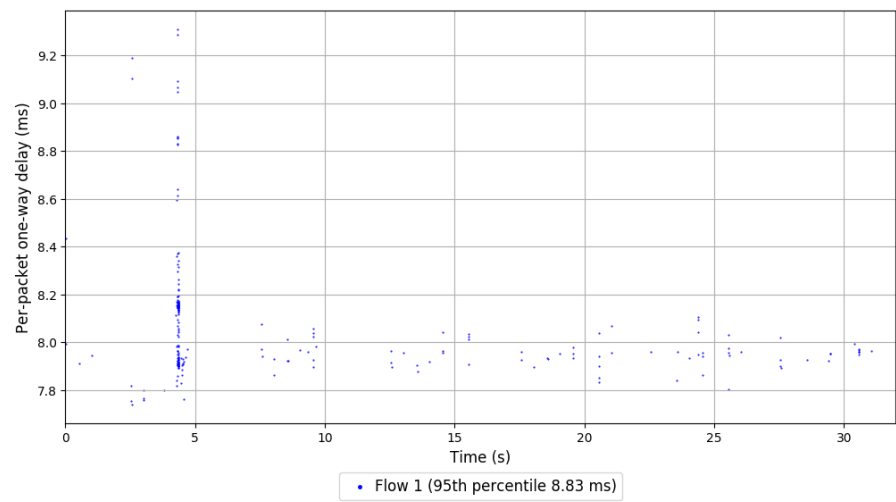
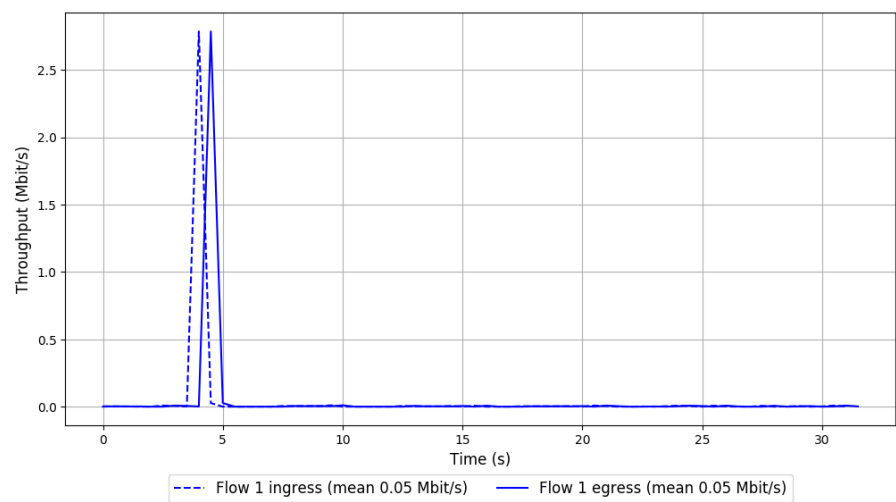


Run 1: Statistics of WebRTC media

Start at: 2019-08-26 17:53:22  
End at: 2019-08-26 17:53:52  
Local clock offset: -17.969 ms  
Remote clock offset: -1.613 ms

# Below is generated by plot.py at 2019-08-26 20:08:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 8.828 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 8.828 ms  
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

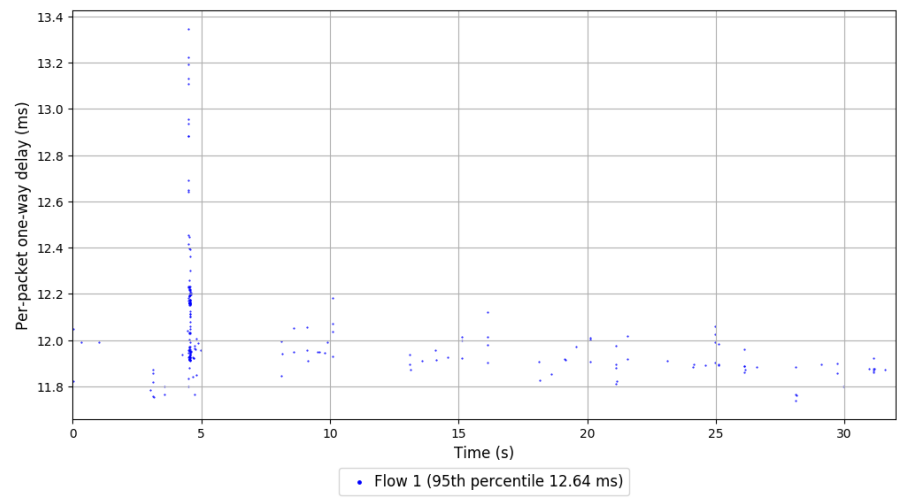
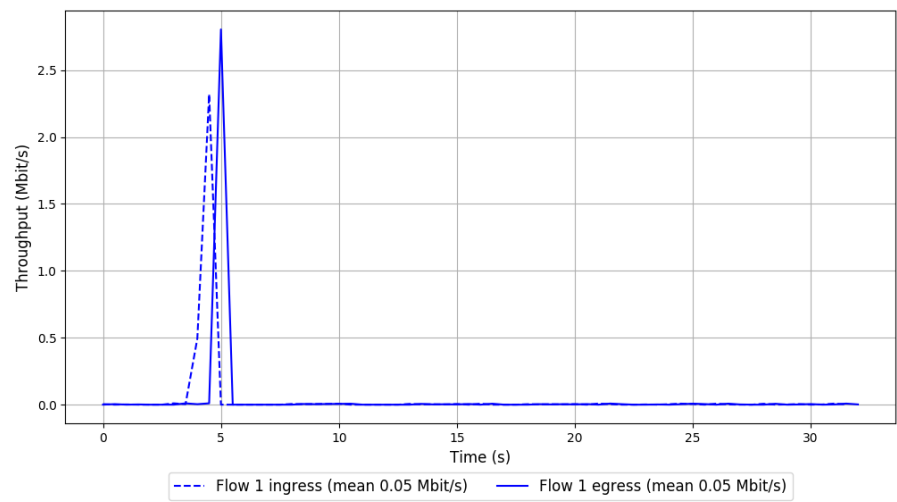


Run 2: Statistics of WebRTC media

Start at: 2019-08-26 18:21:24  
End at: 2019-08-26 18:21:54  
Local clock offset: -17.683 ms  
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2019-08-26 20:08:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 12.641 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 12.641 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

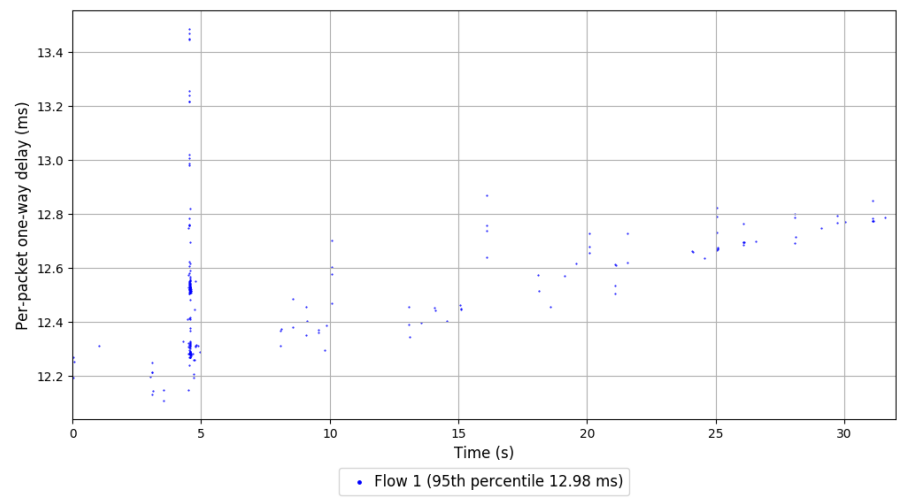
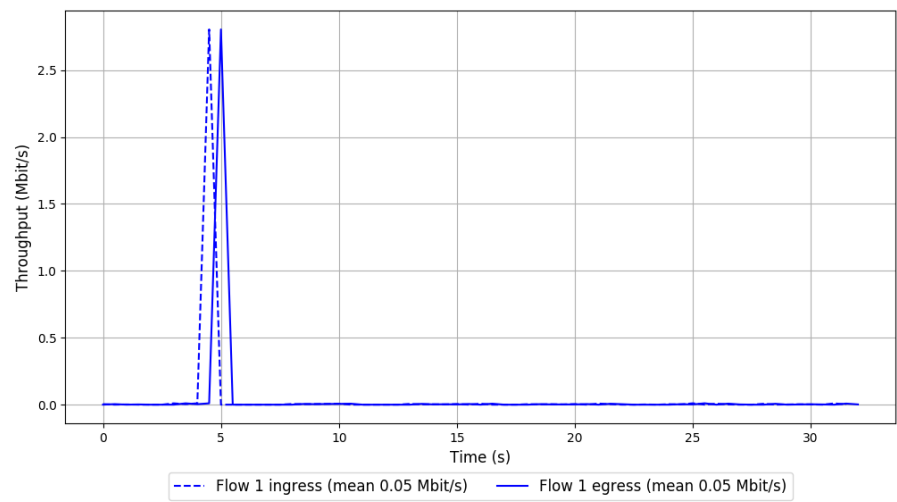


Run 3: Statistics of WebRTC media

Start at: 2019-08-26 18:49:09  
End at: 2019-08-26 18:49:39  
Local clock offset: -12.802 ms  
Remote clock offset: -0.619 ms

# Below is generated by plot.py at 2019-08-26 20:08:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 12.982 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 12.982 ms  
Loss rate: 0.22%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-08-26 19:16:39

End at: 2019-08-26 19:17:09

Local clock offset: -3.346 ms

Remote clock offset: 0.253 ms

# Below is generated by plot.py at 2019-08-26 20:08:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 10.178 ms

Loss rate: 0.00%

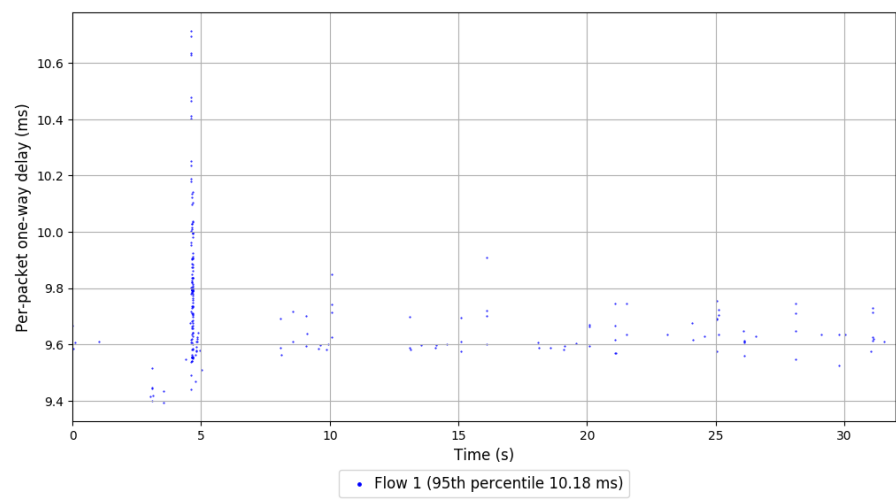
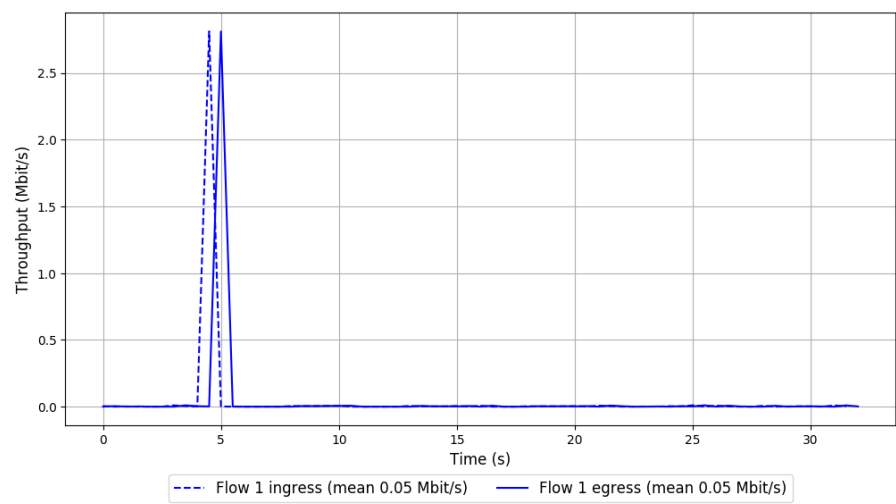
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 10.178 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-08-26 19:44:16  
End at: 2019-08-26 19:44:46  
Local clock offset: -2.929 ms  
Remote clock offset: -2.909 ms

# Below is generated by plot.py at 2019-08-26 20:08:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 7.632 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 7.632 ms  
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

