

## Pantheon Report

Generated at 2019-01-25 16:26:15 (UTC).

Data path: GCE Sydney on **ens4** (*local*) → GCE Tokyo on **ens4** (*remote*).

Repeated the test of 21 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

NTP offsets were measured against `time.google.com` and have been applied to correct the timestamps in logs.

### System info:

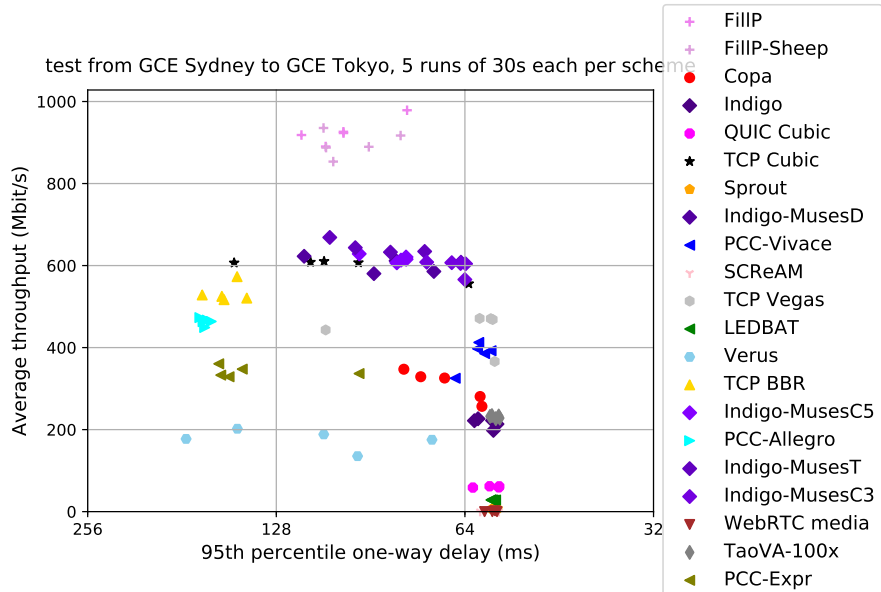
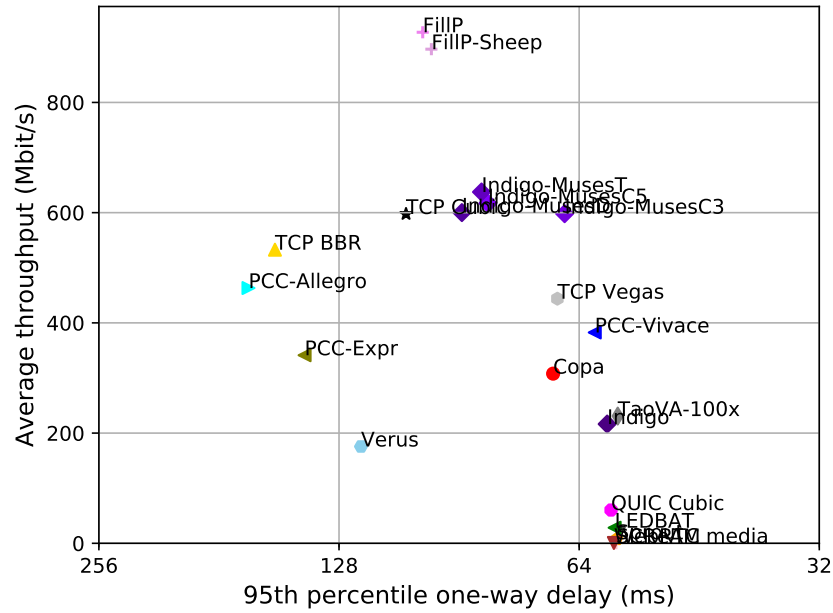
```
Linux 4.15.0-1026-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

```
branch: muses @ 0b8e9a949603c3842368430acf469eec3b941f9f
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ d9c5ea33091330aca25ecd105ab2db6d34d5c40d
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third\_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from GCE Sydney to GCE Tokyo, 5 runs of 30s each per scheme  
(mean of all runs by scheme)



| scheme         | # runs | mean avg tput (Mbit/s)<br>flow 1 | mean 95th-%ile delay (ms)<br>flow 1 | mean loss rate (%)<br>flow 1 |
|----------------|--------|----------------------------------|-------------------------------------|------------------------------|
| TCP BBR        | 5      | 532.80                           | 154.00                              | 0.88                         |
| Copa           | 5      | 307.87                           | 69.00                               | 0.00                         |
| TCP Cubic      | 5      | 597.59                           | 105.49                              | 0.08                         |
| FillP          | 5      | 927.33                           | 100.53                              | 0.48                         |
| FillP-Sheep    | 5      | 896.65                           | 98.04                               | 0.35                         |
| Indigo         | 5      | 216.42                           | 59.03                               | 0.00                         |
| Indigo-MusesC3 | 5      | 598.12                           | 66.74                               | 0.01                         |
| Indigo-MusesC5 | 5      | 616.95                           | 83.28                               | 0.04                         |
| Indigo-MusesD  | 4      | 600.09                           | 89.78                               | 0.08                         |
| Indigo-MusesT  | 5      | 637.51                           | 84.84                               | 0.06                         |
| LEDBAT         | 5      | 28.29                            | 57.78                               | 0.00                         |
| PCC-Allegro    | 5      | 463.21                           | 166.22                              | 2.03                         |
| PCC-Expr       | 5      | 341.28                           | 141.39                              | 1.43                         |
| QUIC Cubic     | 4      | 60.37                            | 58.38                               | 0.01                         |
| SCReAM         | 5      | 0.22                             | 57.55                               | 0.00                         |
| Sprout         | 5      | 7.42                             | 57.48                               | 0.00                         |
| TaoVA-100x     | 5      | 230.89                           | 57.26                               | 0.00                         |
| TCP Vegas      | 5      | 443.86                           | 68.15                               | 0.00                         |
| Verus          | 5      | 175.68                           | 120.14                              | 0.22                         |
| PCC-Vivace     | 5      | 382.58                           | 61.19                               | 0.01                         |
| WebRTC media   | 4      | 0.59                             | 57.90                               | 0.00                         |



Run 1: Statistics of TCP BBR

Start at: 2019-01-25 11:59:02

End at: 2019-01-25 11:59:32

Local clock offset: -0.343 ms

Remote clock offset: 0.493 ms

# Below is generated by plot.py at 2019-01-25 14:35:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 573.00 Mbit/s

95th percentile per-packet one-way delay: 147.840 ms

Loss rate: 0.47%

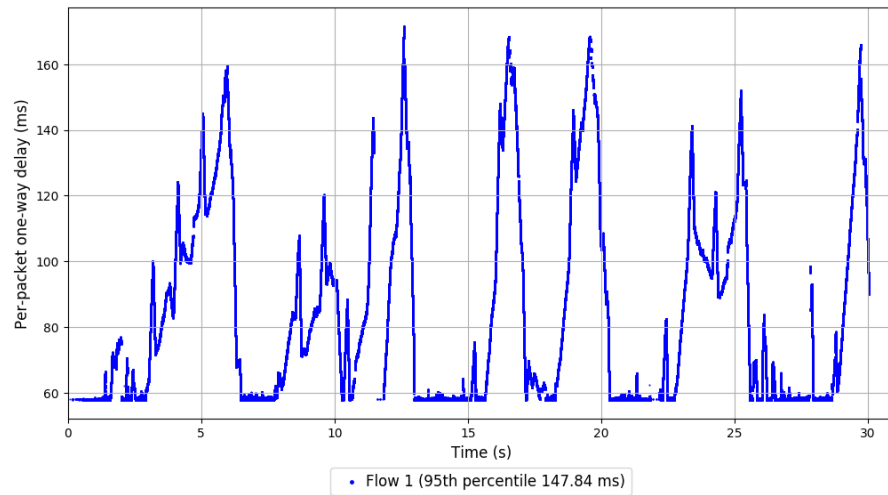
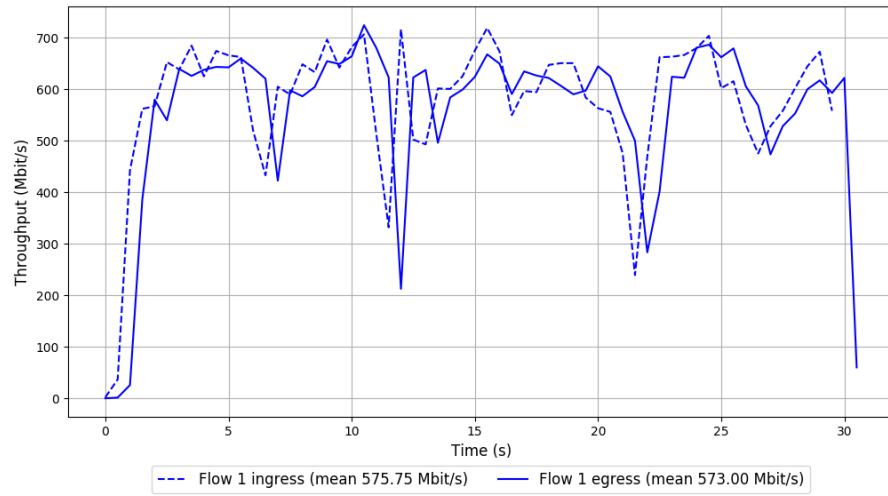
-- Flow 1:

Average throughput: 573.00 Mbit/s

95th percentile per-packet one-way delay: 147.840 ms

Loss rate: 0.47%

# Run 1: Report of TCP BBR — Data Link

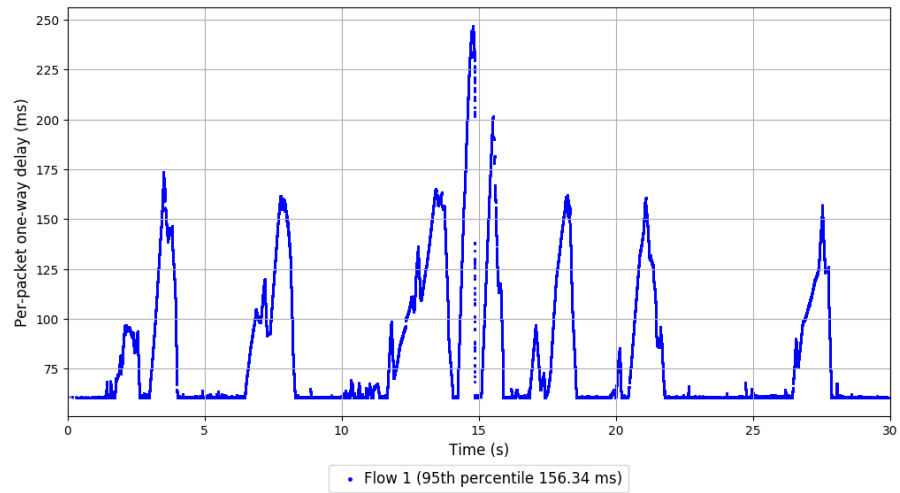
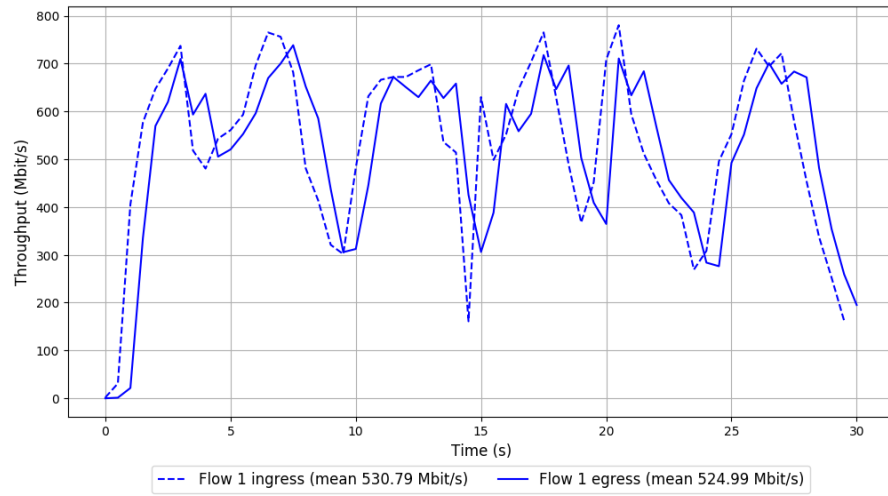


Run 2: Statistics of TCP BBR

Start at: 2019-01-25 12:30:35  
End at: 2019-01-25 12:31:05  
Local clock offset: -0.396 ms  
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2019-01-25 14:35:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 524.99 Mbit/s  
95th percentile per-packet one-way delay: 156.345 ms  
Loss rate: 1.09%  
-- Flow 1:  
Average throughput: 524.99 Mbit/s  
95th percentile per-packet one-way delay: 156.345 ms  
Loss rate: 1.09%

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



Run 3: Statistics of TCP BBR

Start at: 2019-01-25 13:01:45

End at: 2019-01-25 13:02:15

Local clock offset: -0.482 ms

Remote clock offset: 0.698 ms

# Below is generated by plot.py at 2019-01-25 14:35:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 516.93 Mbit/s

95th percentile per-packet one-way delay: 155.094 ms

Loss rate: 0.52%

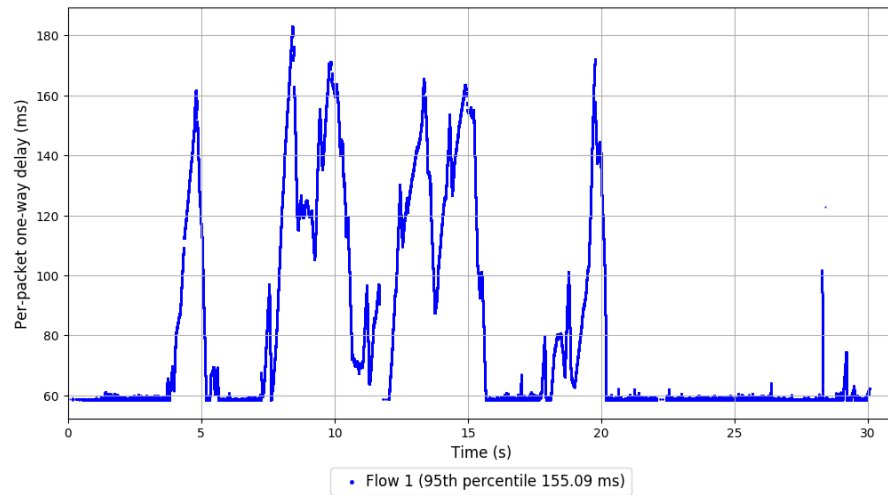
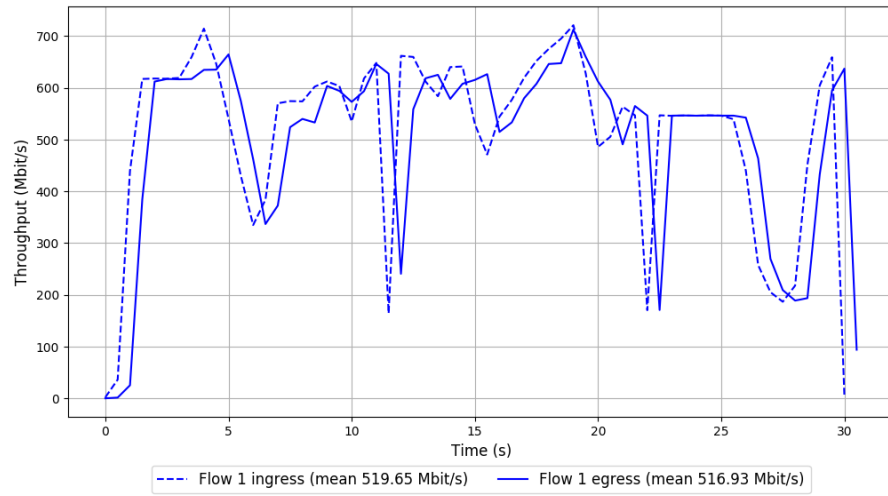
-- Flow 1:

Average throughput: 516.93 Mbit/s

95th percentile per-packet one-way delay: 155.094 ms

Loss rate: 0.52%

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



Run 4: Statistics of TCP BBR

Start at: 2019-01-25 13:34:10

End at: 2019-01-25 13:34:40

Local clock offset: 0.424 ms

Remote clock offset: -0.59 ms

# Below is generated by plot.py at 2019-01-25 14:35:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 520.73 Mbit/s

95th percentile per-packet one-way delay: 142.673 ms

Loss rate: 0.56%

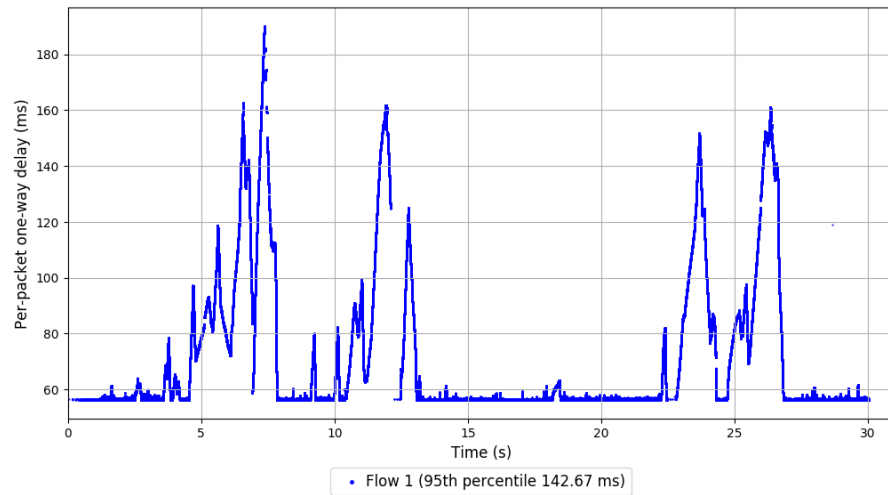
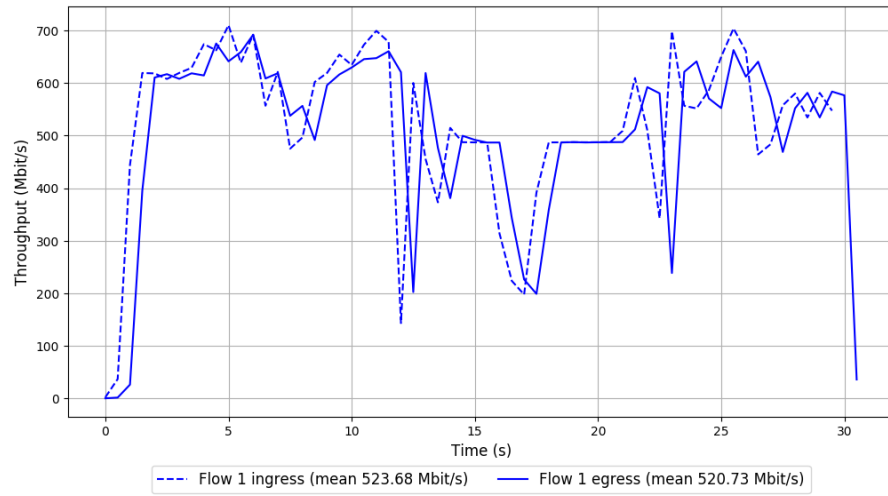
-- Flow 1:

Average throughput: 520.73 Mbit/s

95th percentile per-packet one-way delay: 142.673 ms

Loss rate: 0.56%

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





Run 5: Statistics of TCP BBR

Start at: 2019-01-25 14:05:33

End at: 2019-01-25 14:06:03

Local clock offset: 0.114 ms

Remote clock offset: -0.68 ms

# Below is generated by plot.py at 2019-01-25 14:35:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 528.37 Mbit/s

95th percentile per-packet one-way delay: 168.049 ms

Loss rate: 1.76%

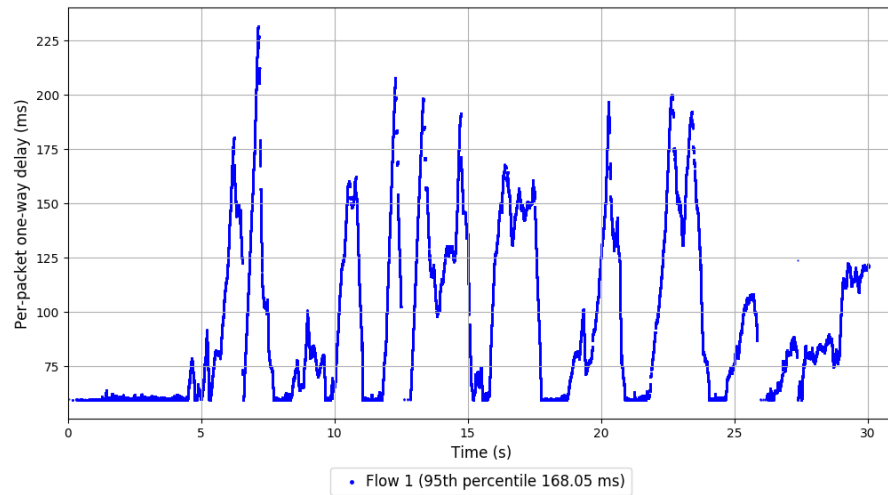
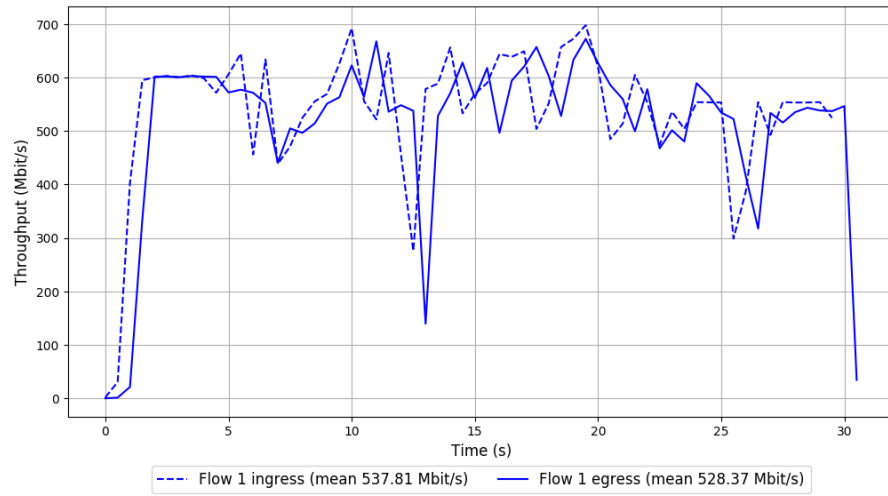
-- Flow 1:

Average throughput: 528.37 Mbit/s

95th percentile per-packet one-way delay: 168.049 ms

Loss rate: 1.76%

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



Run 1: Statistics of Copa

Start at: 2019-01-25 12:02:21

End at: 2019-01-25 12:02:51

Local clock offset: -0.152 ms

Remote clock offset: 0.603 ms

# Below is generated by plot.py at 2019-01-25 14:36:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 347.22 Mbit/s

95th percentile per-packet one-way delay: 80.104 ms

Loss rate: 0.00%

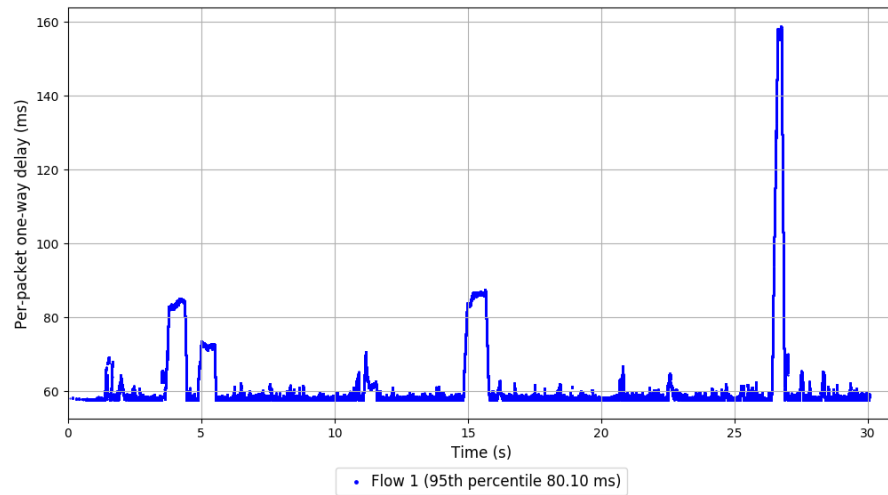
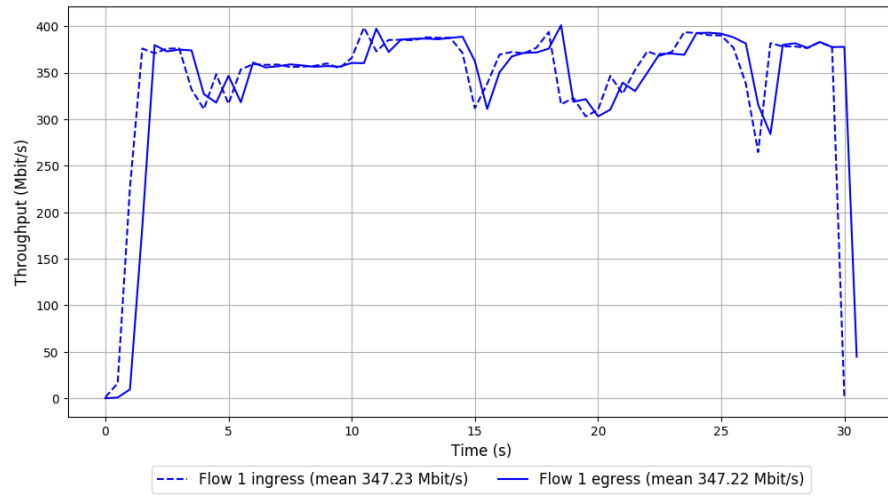
-- Flow 1:

Average throughput: 347.22 Mbit/s

95th percentile per-packet one-way delay: 80.104 ms

Loss rate: 0.00%

## Run 1: Report of Copa — Data Link

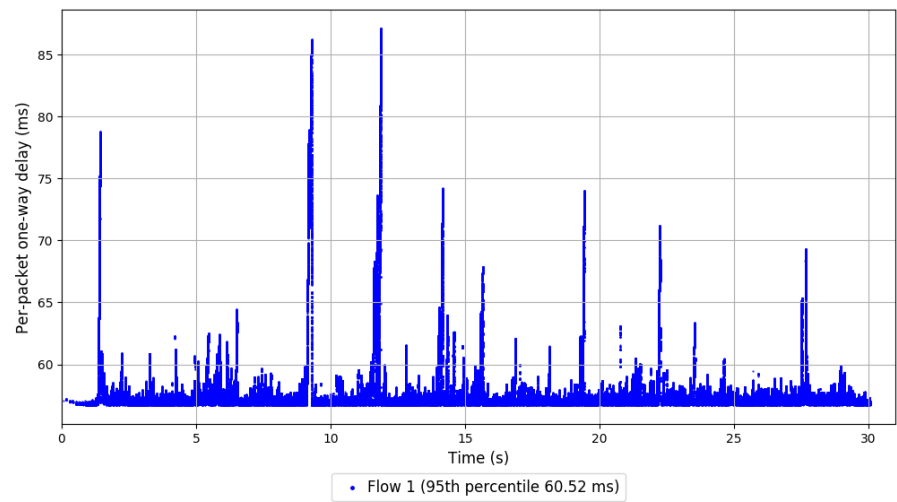
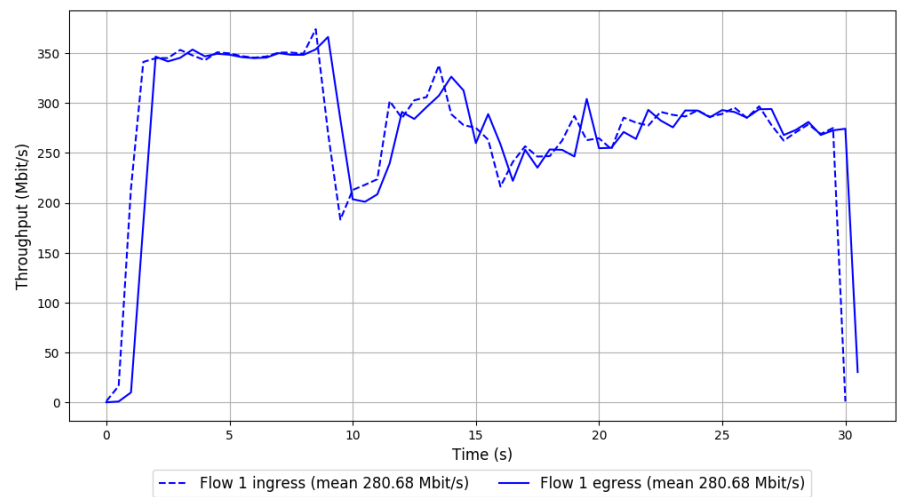


Run 2: Statistics of Copa

Start at: 2019-01-25 12:33:52  
End at: 2019-01-25 12:34:22  
Local clock offset: -0.156 ms  
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2019-01-25 14:36:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 280.68 Mbit/s  
95th percentile per-packet one-way delay: 60.522 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 280.68 Mbit/s  
95th percentile per-packet one-way delay: 60.522 ms  
Loss rate: 0.00%

Run 2: Report of Copa — Data Link

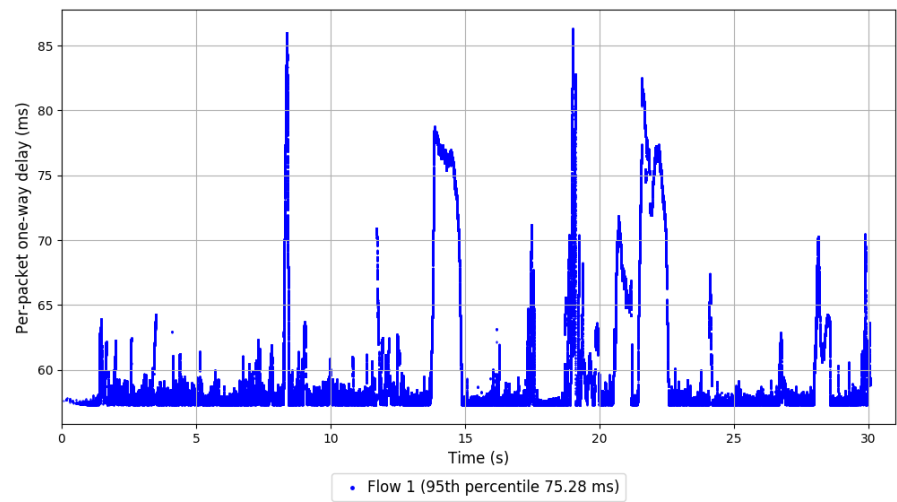
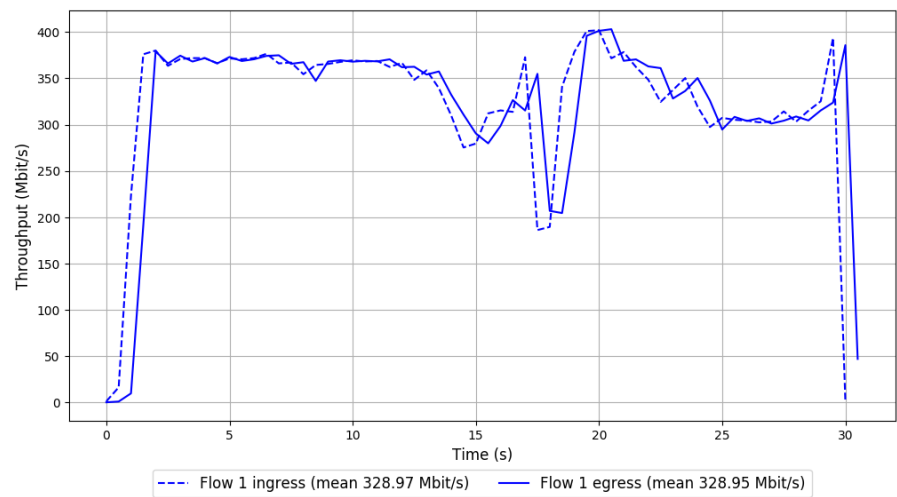


Run 3: Statistics of Copa

Start at: 2019-01-25 13:05:00  
End at: 2019-01-25 13:05:30  
Local clock offset: -0.073 ms  
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2019-01-25 14:36:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 328.95 Mbit/s  
95th percentile per-packet one-way delay: 75.278 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 328.95 Mbit/s  
95th percentile per-packet one-way delay: 75.278 ms  
Loss rate: 0.01%

Run 3: Report of Copa — Data Link



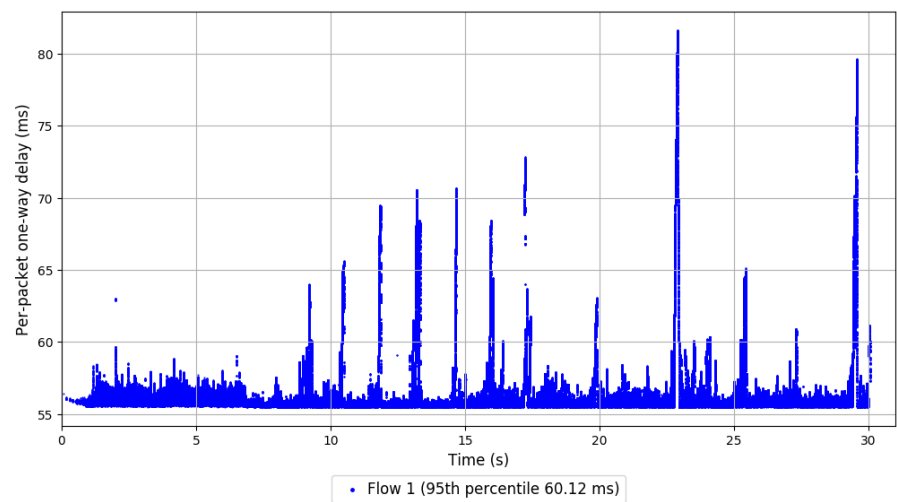
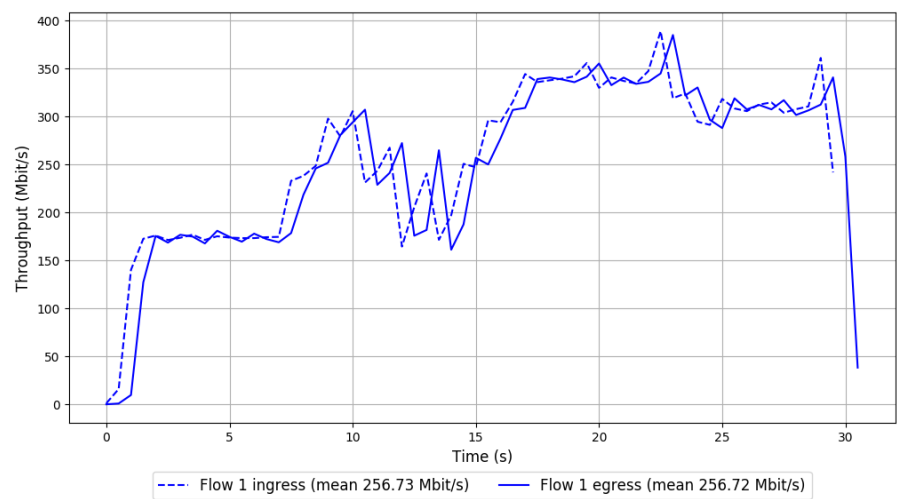


Run 4: Statistics of Copa

Start at: 2019-01-25 13:37:35  
End at: 2019-01-25 13:38:05  
Local clock offset: 0.163 ms  
Remote clock offset: -1.177 ms

# Below is generated by plot.py at 2019-01-25 14:43:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 256.72 Mbit/s  
95th percentile per-packet one-way delay: 60.122 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 256.72 Mbit/s  
95th percentile per-packet one-way delay: 60.122 ms  
Loss rate: 0.00%

Run 4: Report of Copa — Data Link

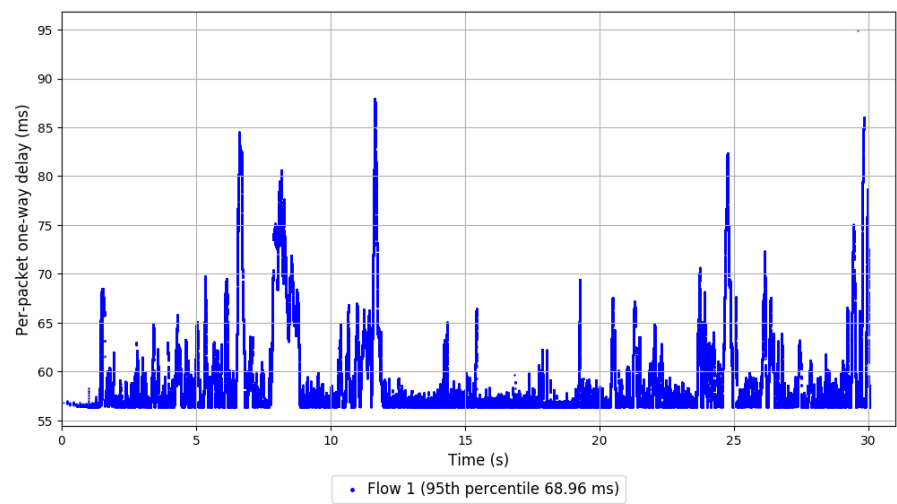
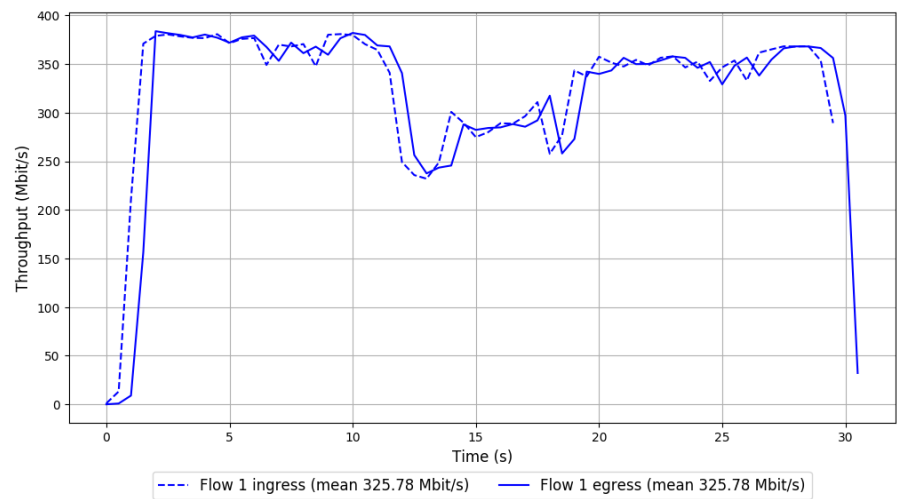


Run 5: Statistics of Copa

Start at: 2019-01-25 14:08:49  
End at: 2019-01-25 14:09:19  
Local clock offset: -0.272 ms  
Remote clock offset: -0.727 ms

# Below is generated by plot.py at 2019-01-25 14:46:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 325.78 Mbit/s  
95th percentile per-packet one-way delay: 68.960 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 325.78 Mbit/s  
95th percentile per-packet one-way delay: 68.960 ms  
Loss rate: 0.00%

Run 5: Report of Copa — Data Link

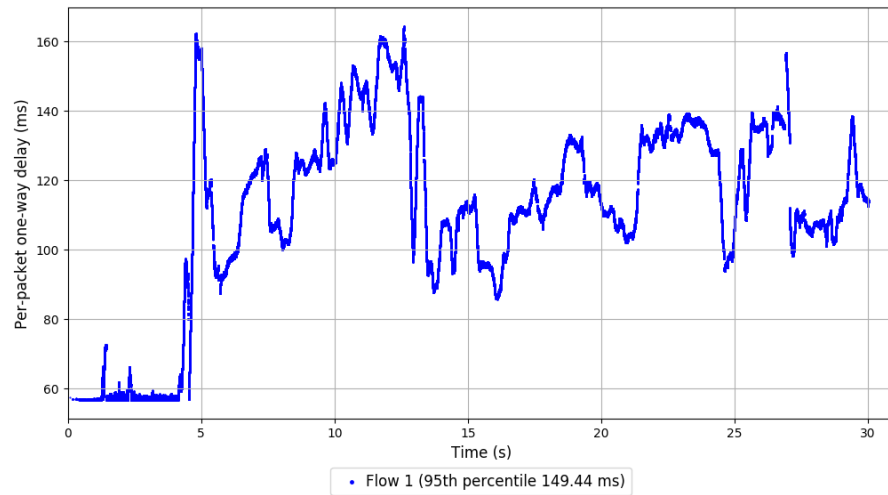
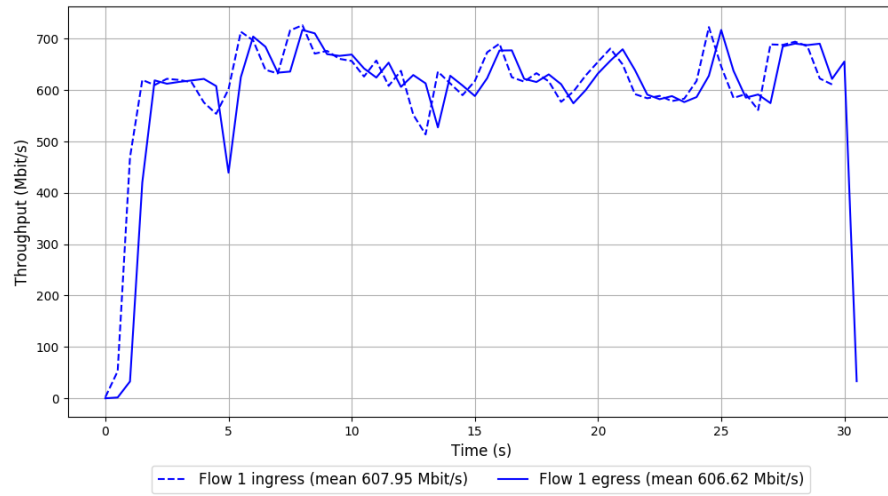


Run 1: Statistics of TCP Cubic

Start at: 2019-01-25 11:39:18  
End at: 2019-01-25 11:39:48  
Local clock offset: -0.039 ms  
Remote clock offset: -0.338 ms

# Below is generated by plot.py at 2019-01-25 14:46:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 606.62 Mbit/s  
95th percentile per-packet one-way delay: 149.442 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 606.62 Mbit/s  
95th percentile per-packet one-way delay: 149.442 ms  
Loss rate: 0.22%

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

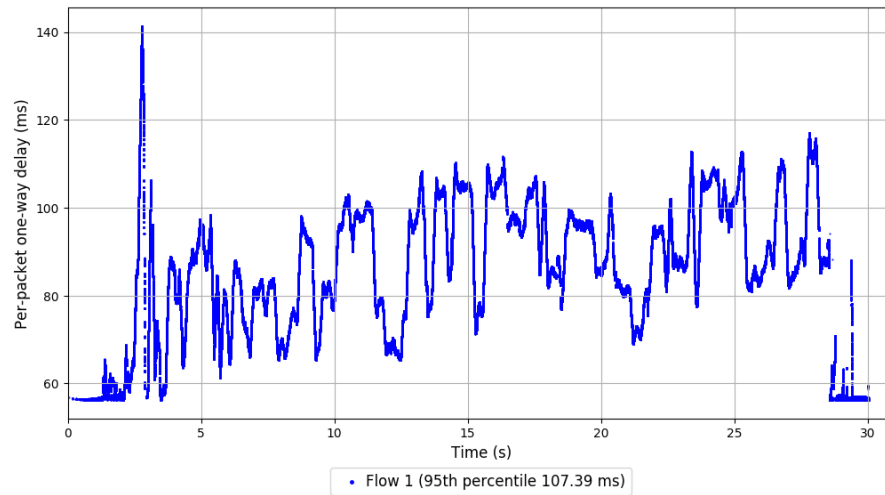
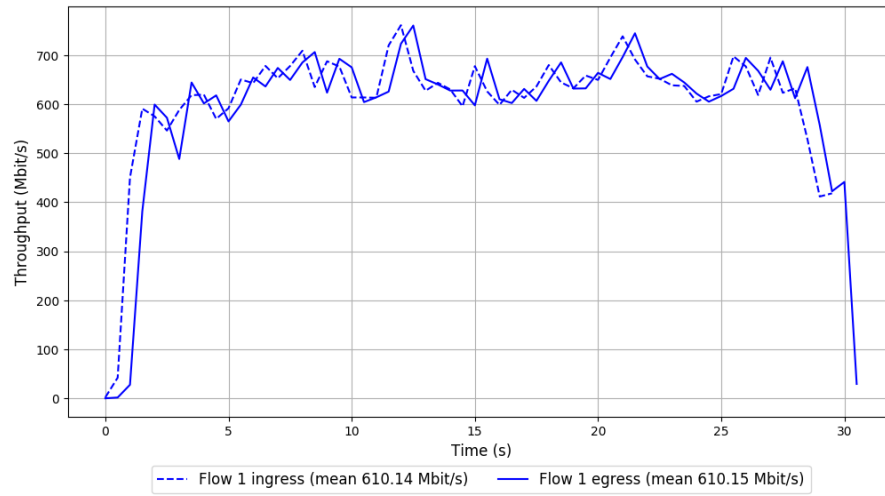


Run 2: Statistics of TCP Cubic

Start at: 2019-01-25 12:10:51  
End at: 2019-01-25 12:11:21  
Local clock offset: -0.146 ms  
Remote clock offset: -0.892 ms

# Below is generated by plot.py at 2019-01-25 14:46:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 610.15 Mbit/s  
95th percentile per-packet one-way delay: 107.386 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 610.15 Mbit/s  
95th percentile per-packet one-way delay: 107.386 ms  
Loss rate: 0.00%

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



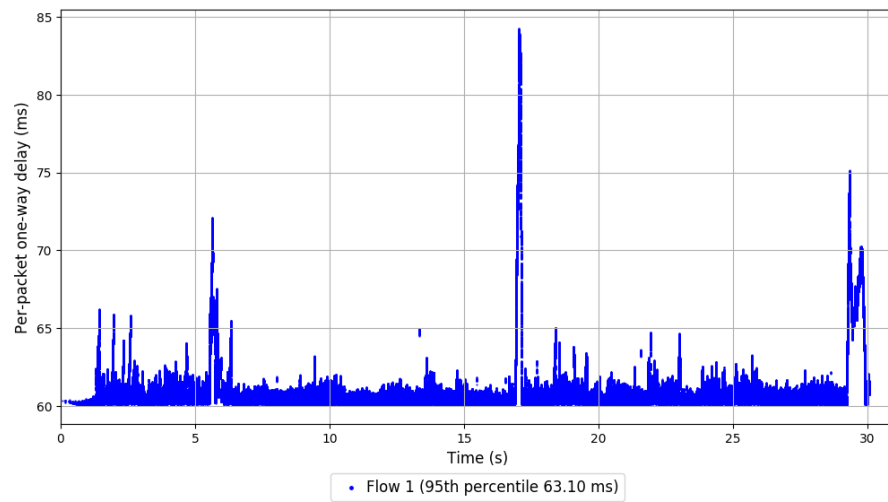
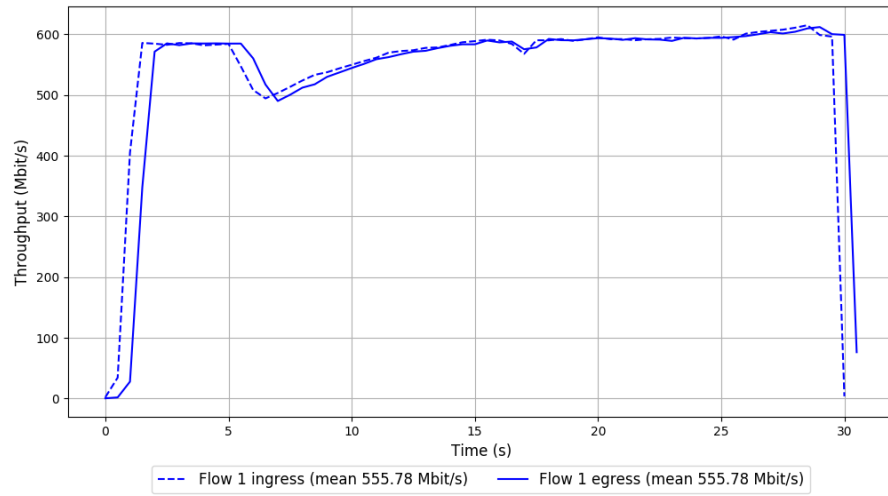


Run 3: Statistics of TCP Cubic

Start at: 2019-01-25 12:42:14  
End at: 2019-01-25 12:42:44  
Local clock offset: -0.131 ms  
Remote clock offset: -0.299 ms

# Below is generated by plot.py at 2019-01-25 14:46:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 555.78 Mbit/s  
95th percentile per-packet one-way delay: 63.099 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 555.78 Mbit/s  
95th percentile per-packet one-way delay: 63.099 ms  
Loss rate: 0.01%

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



Run 4: Statistics of TCP Cubic

Start at: 2019-01-25 13:13:24

End at: 2019-01-25 13:13:54

Local clock offset: -0.124 ms

Remote clock offset: 0.095 ms

# Below is generated by plot.py at 2019-01-25 14:47:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 608.34 Mbit/s

95th percentile per-packet one-way delay: 112.870 ms

Loss rate: 0.07%

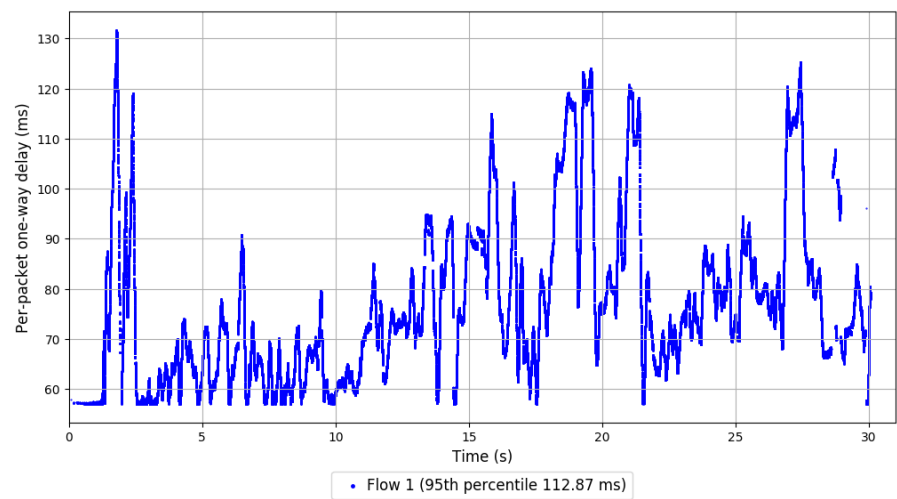
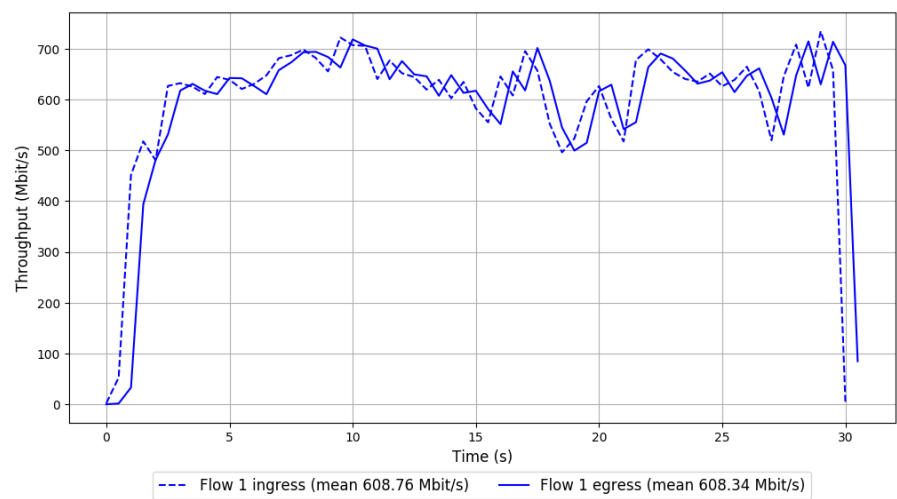
-- Flow 1:

Average throughput: 608.34 Mbit/s

95th percentile per-packet one-way delay: 112.870 ms

Loss rate: 0.07%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-01-25 13:45:56

End at: 2019-01-25 13:46:26

Local clock offset: 0.294 ms

Remote clock offset: 1.434 ms

# Below is generated by plot.py at 2019-01-25 14:47:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 607.06 Mbit/s

95th percentile per-packet one-way delay: 94.648 ms

Loss rate: 0.08%

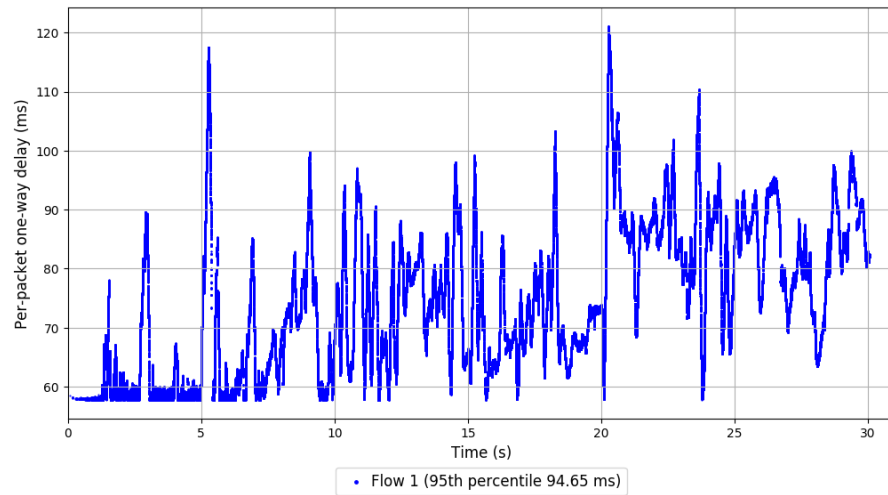
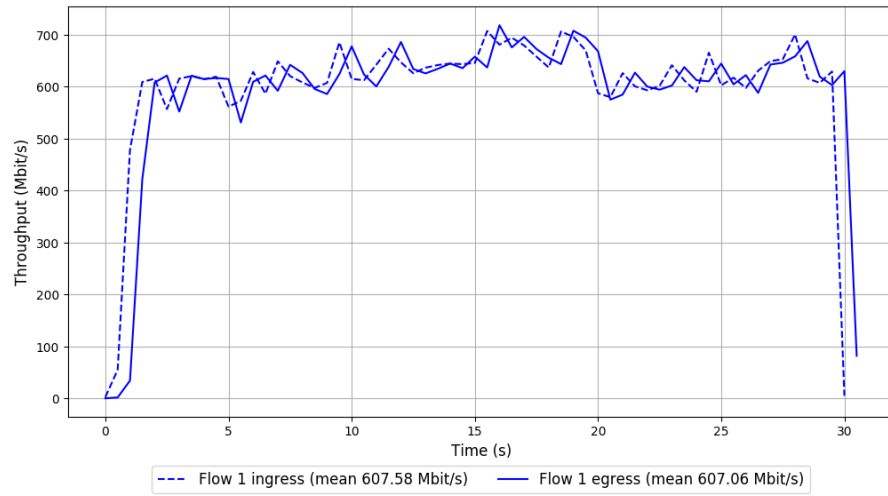
-- Flow 1:

Average throughput: 607.06 Mbit/s

95th percentile per-packet one-way delay: 94.648 ms

Loss rate: 0.08%

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

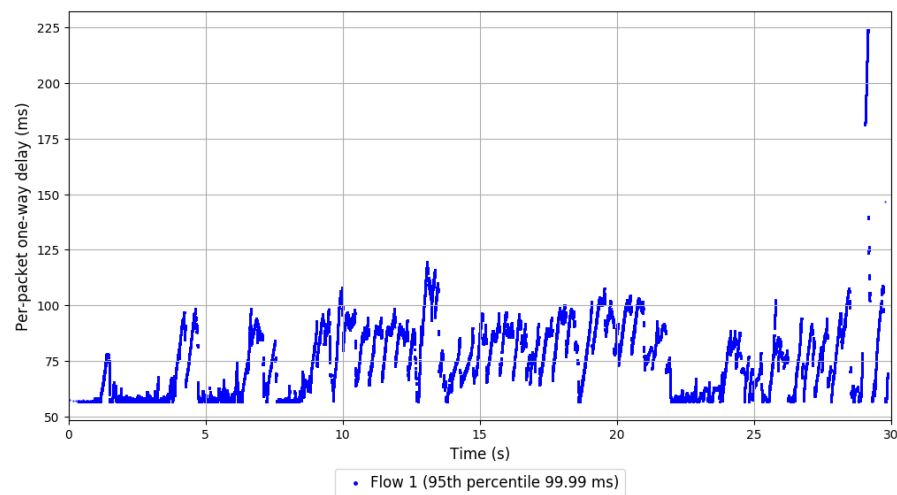
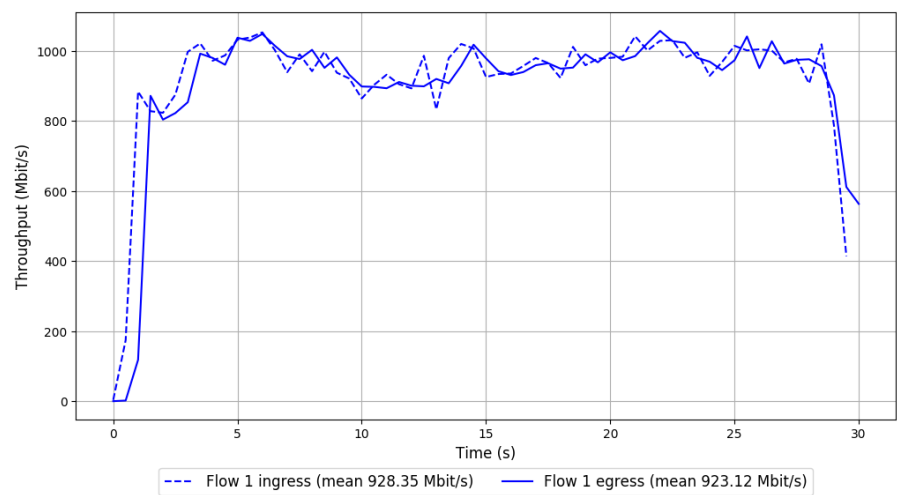


Run 1: Statistics of FillP

Start at: 2019-01-25 11:45:14  
End at: 2019-01-25 11:45:44  
Local clock offset: 0.151 ms  
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2019-01-25 14:55:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 923.12 Mbit/s  
95th percentile per-packet one-way delay: 99.993 ms  
Loss rate: 0.56%  
-- Flow 1:  
Average throughput: 923.12 Mbit/s  
95th percentile per-packet one-way delay: 99.993 ms  
Loss rate: 0.56%

Run 1: Report of FillP — Data Link



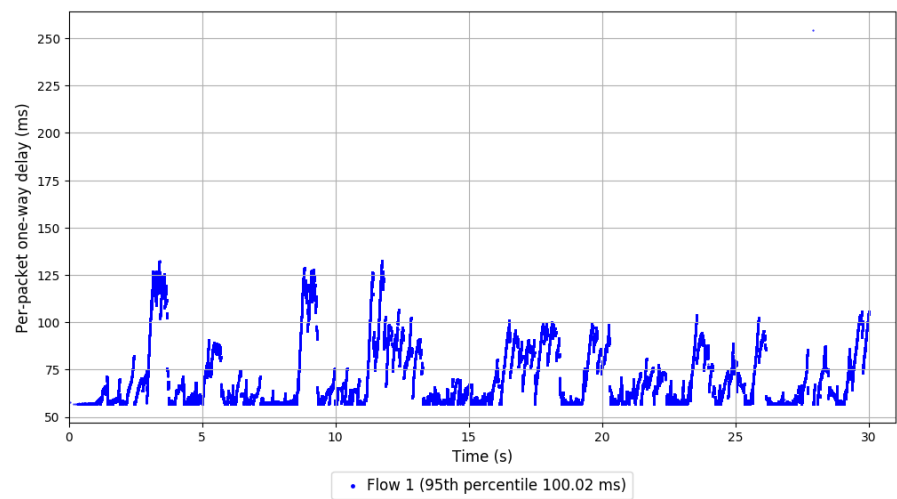
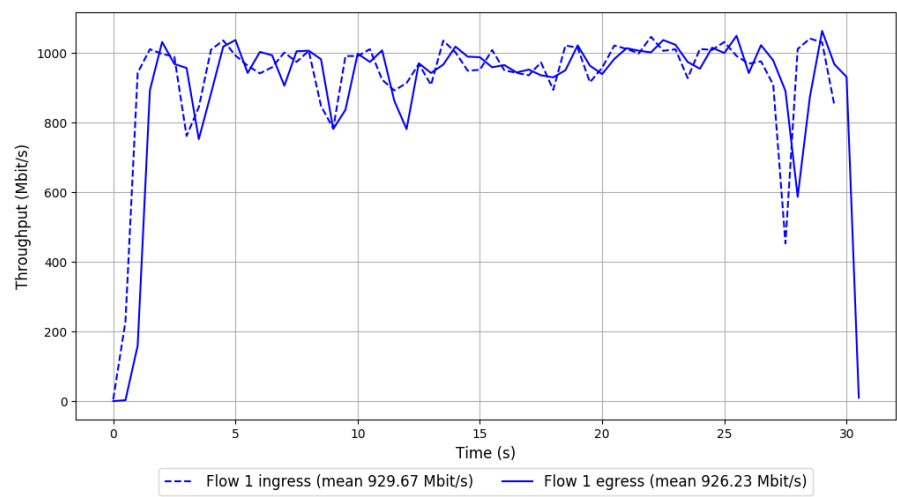


Run 2: Statistics of FillP

Start at: 2019-01-25 12:16:49  
End at: 2019-01-25 12:17:19  
Local clock offset: 0.031 ms  
Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2019-01-25 15:06:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 926.23 Mbit/s  
95th percentile per-packet one-way delay: 100.023 ms  
Loss rate: 0.37%  
-- Flow 1:  
Average throughput: 926.23 Mbit/s  
95th percentile per-packet one-way delay: 100.023 ms  
Loss rate: 0.37%

Run 2: Report of FillP — Data Link

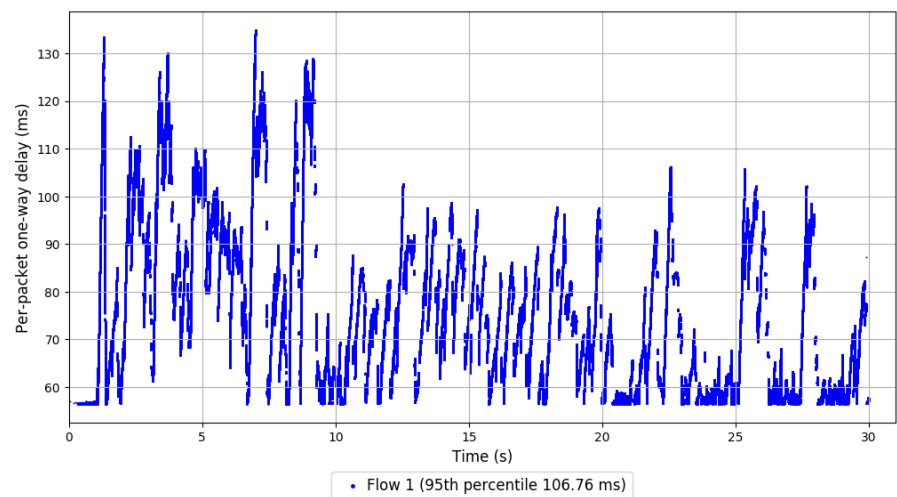
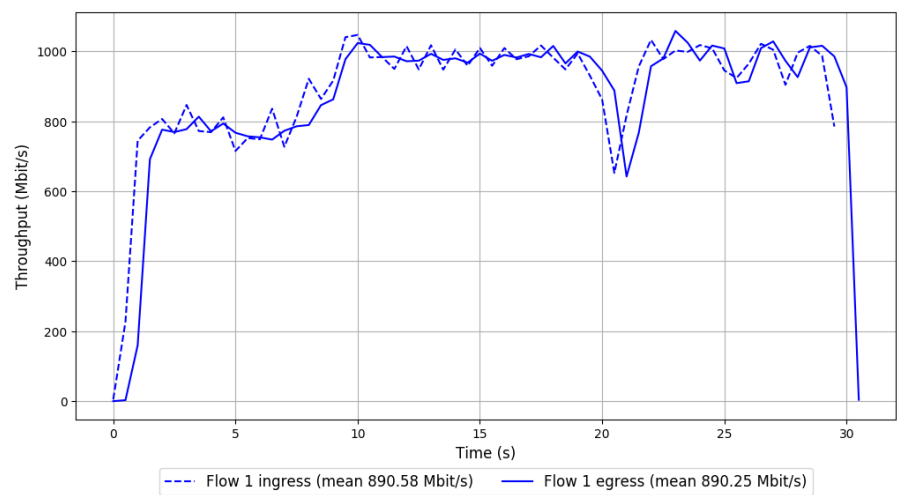


Run 3: Statistics of FillP

Start at: 2019-01-25 12:48:08  
End at: 2019-01-25 12:48:39  
Local clock offset: -0.108 ms  
Remote clock offset: -0.953 ms

# Below is generated by plot.py at 2019-01-25 15:07:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 890.25 Mbit/s  
95th percentile per-packet one-way delay: 106.760 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 890.25 Mbit/s  
95th percentile per-packet one-way delay: 106.760 ms  
Loss rate: 0.19%

Run 3: Report of FillP — Data Link

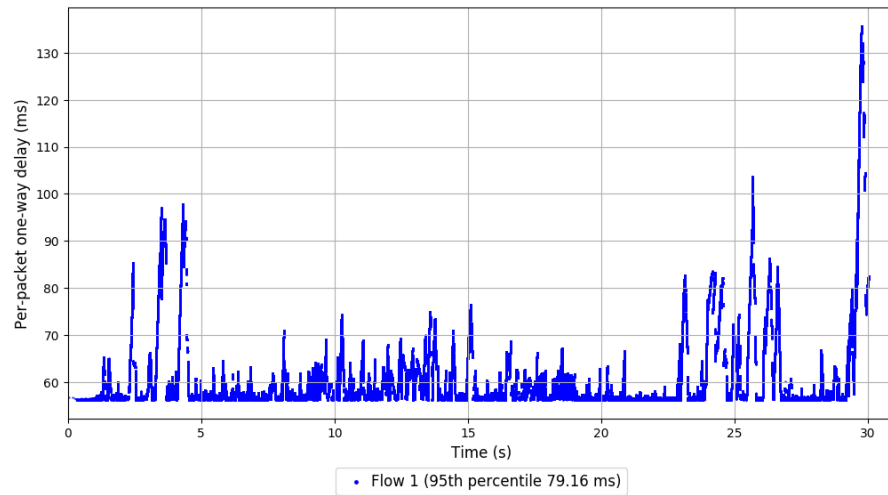
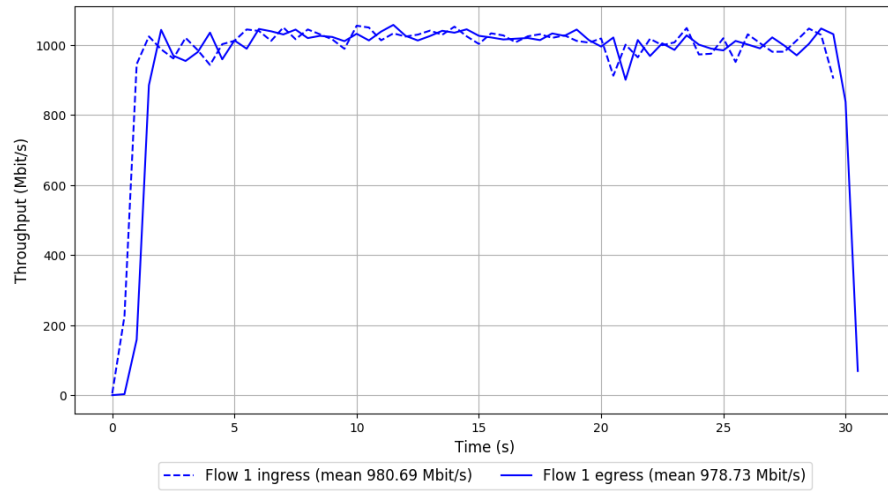


Run 4: Statistics of FillP

Start at: 2019-01-25 13:19:27  
End at: 2019-01-25 13:19:57  
Local clock offset: 0.112 ms  
Remote clock offset: -0.717 ms

# Below is generated by plot.py at 2019-01-25 15:09:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 978.73 Mbit/s  
95th percentile per-packet one-way delay: 79.157 ms  
Loss rate: 0.20%  
-- Flow 1:  
Average throughput: 978.73 Mbit/s  
95th percentile per-packet one-way delay: 79.157 ms  
Loss rate: 0.20%

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

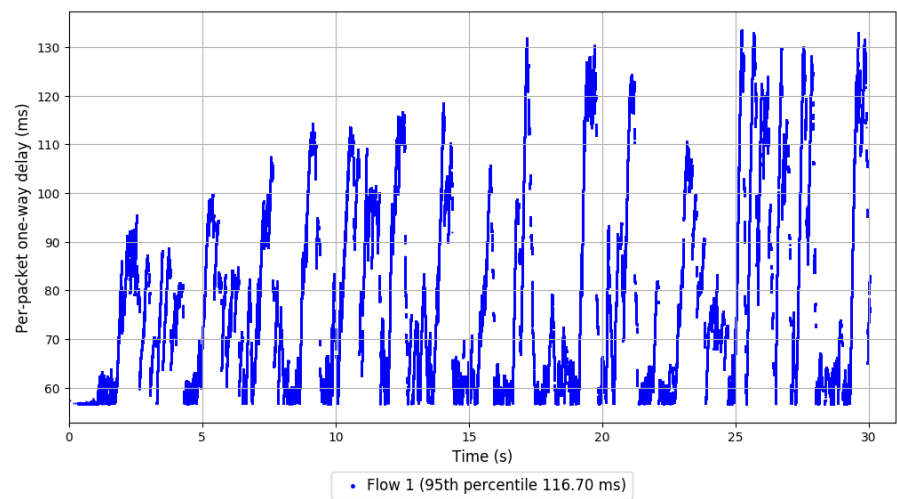
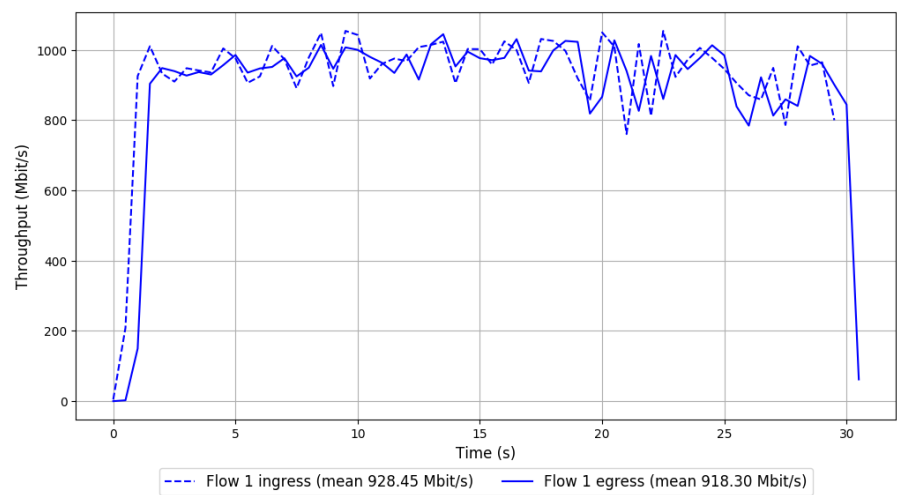


Run 5: Statistics of FillP

Start at: 2019-01-25 13:51:54  
End at: 2019-01-25 13:52:24  
Local clock offset: 0.007 ms  
Remote clock offset: -0.323 ms

# Below is generated by plot.py at 2019-01-25 15:09:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 918.30 Mbit/s  
95th percentile per-packet one-way delay: 116.700 ms  
Loss rate: 1.09%  
-- Flow 1:  
Average throughput: 918.30 Mbit/s  
95th percentile per-packet one-way delay: 116.700 ms  
Loss rate: 1.09%

Run 5: Report of FillP — Data Link





Run 1: Statistics of FillP-Sheep

Start at: 2019-01-25 11:51:48

End at: 2019-01-25 11:52:18

Local clock offset: -0.498 ms

Remote clock offset: 0.118 ms

# Below is generated by plot.py at 2019-01-25 15:09:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 917.08 Mbit/s

95th percentile per-packet one-way delay: 81.062 ms

Loss rate: 0.00%

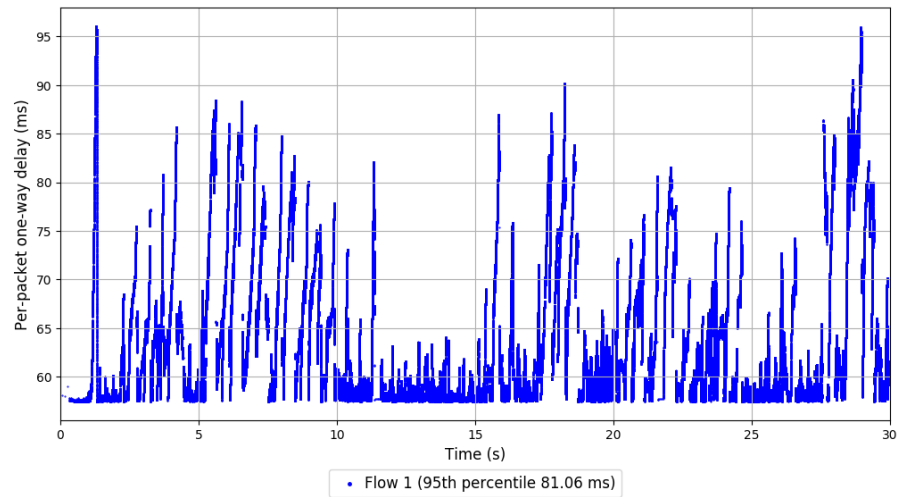
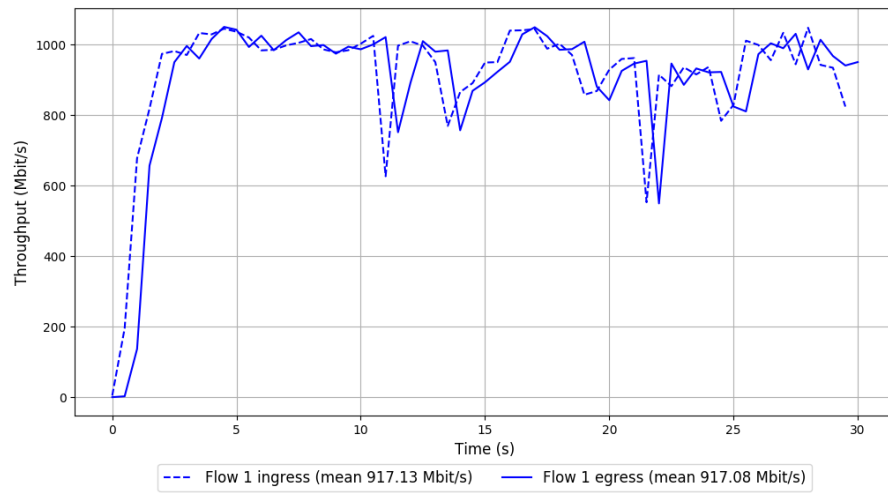
-- Flow 1:

Average throughput: 917.08 Mbit/s

95th percentile per-packet one-way delay: 81.062 ms

Loss rate: 0.00%

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



Run 2: Statistics of FillP-Sheep

Start at: 2019-01-25 12:23:22

End at: 2019-01-25 12:23:52

Local clock offset: -0.52 ms

Remote clock offset: 0.427 ms

# Below is generated by plot.py at 2019-01-25 15:09:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 935.45 Mbit/s

95th percentile per-packet one-way delay: 107.607 ms

Loss rate: 0.45%

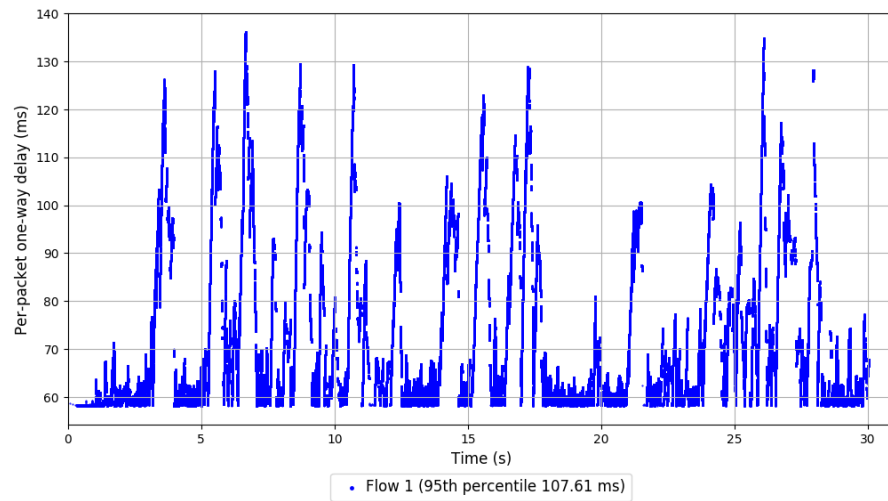
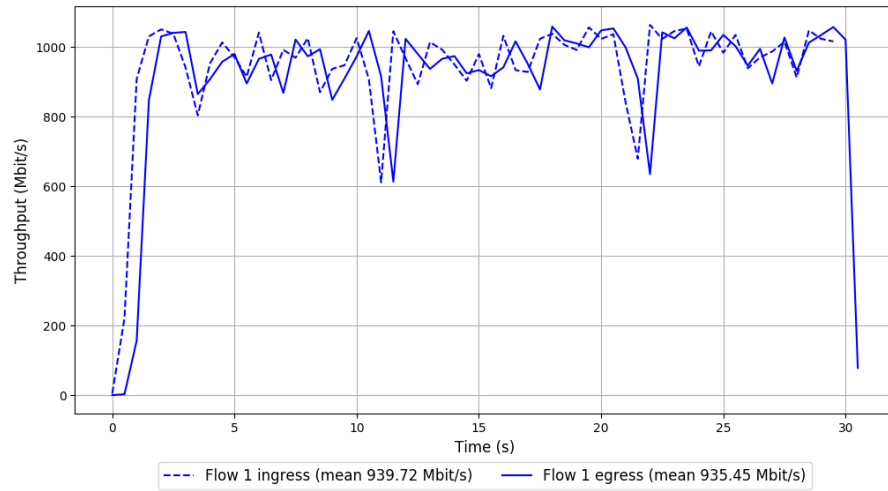
-- Flow 1:

Average throughput: 935.45 Mbit/s

95th percentile per-packet one-way delay: 107.607 ms

Loss rate: 0.45%

## Run 2: Report of FillP-Sheep — Data Link

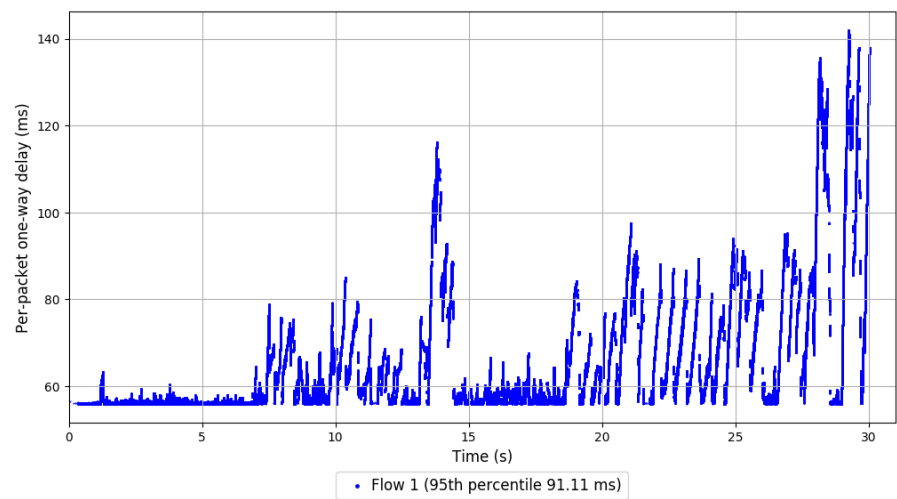
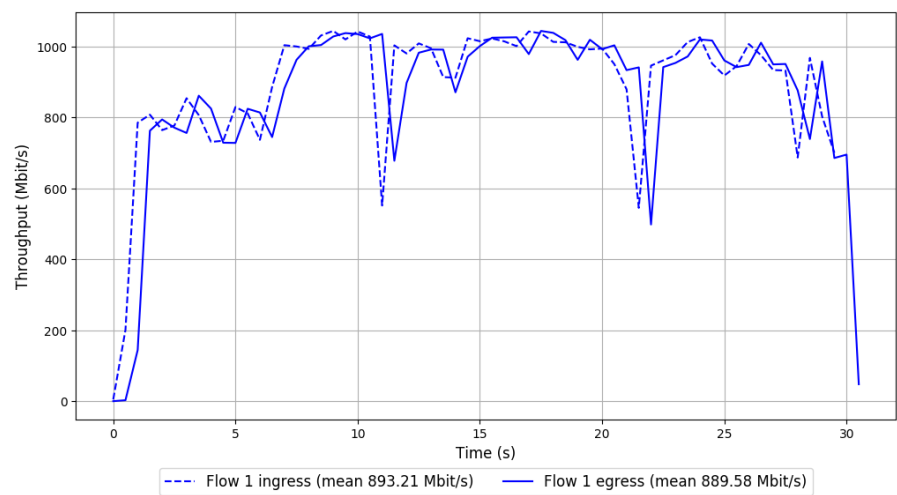


Run 3: Statistics of FillP-Sheep

Start at: 2019-01-25 12:54:35  
End at: 2019-01-25 12:55:05  
Local clock offset: 0.172 ms  
Remote clock offset: -0.808 ms

# Below is generated by plot.py at 2019-01-25 15:09:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 889.58 Mbit/s  
95th percentile per-packet one-way delay: 91.107 ms  
Loss rate: 0.41%  
-- Flow 1:  
Average throughput: 889.58 Mbit/s  
95th percentile per-packet one-way delay: 91.107 ms  
Loss rate: 0.41%

Run 3: Report of FillP-Sheep — Data Link

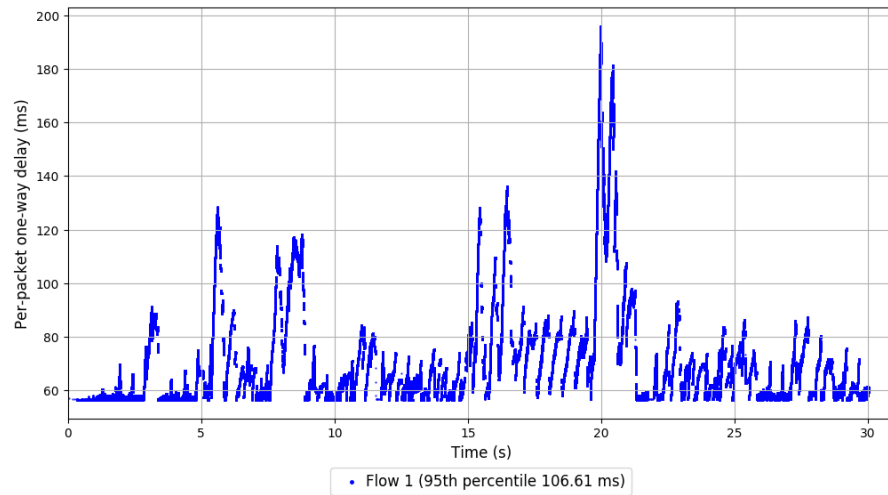
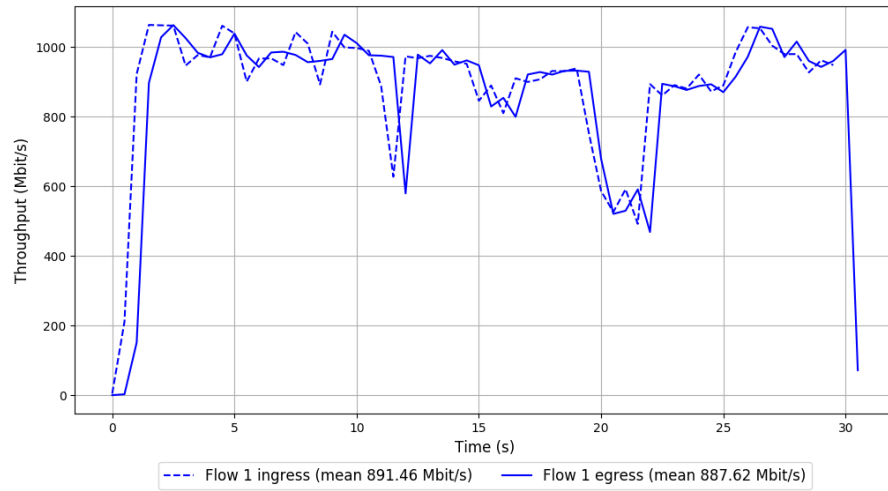


Run 4: Statistics of FillP-Sheep

Start at: 2019-01-25 13:26:35  
End at: 2019-01-25 13:27:05  
Local clock offset: -0.183 ms  
Remote clock offset: -0.385 ms

# Below is generated by plot.py at 2019-01-25 15:19:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 887.62 Mbit/s  
95th percentile per-packet one-way delay: 106.610 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 887.62 Mbit/s  
95th percentile per-packet one-way delay: 106.610 ms  
Loss rate: 0.43%

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



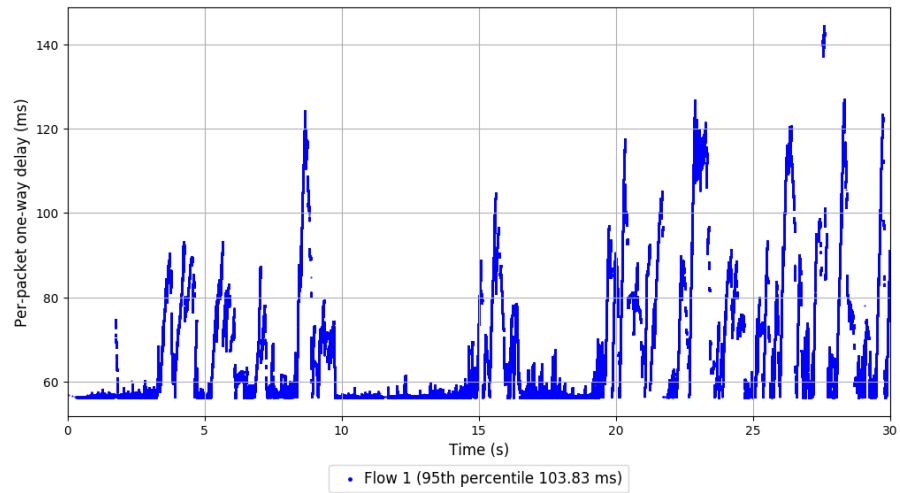
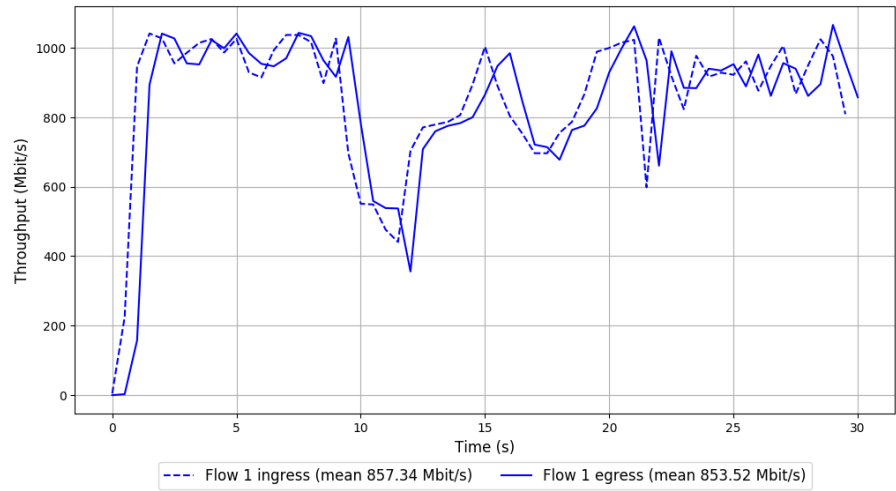


Run 5: Statistics of FillP-Sheep

Start at: 2019-01-25 13:58:26  
End at: 2019-01-25 13:58:56  
Local clock offset: -0.029 ms  
Remote clock offset: -0.638 ms

# Below is generated by plot.py at 2019-01-25 15:26:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 853.52 Mbit/s  
95th percentile per-packet one-way delay: 103.830 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 853.52 Mbit/s  
95th percentile per-packet one-way delay: 103.830 ms  
Loss rate: 0.44%

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



Run 1: Statistics of Indigo

Start at: 2019-01-25 12:04:01

End at: 2019-01-25 12:04:31

Local clock offset: -0.207 ms

Remote clock offset: 0.606 ms

# Below is generated by plot.py at 2019-01-25 15:26:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 221.73 Mbit/s

95th percentile per-packet one-way delay: 61.811 ms

Loss rate: 0.00%

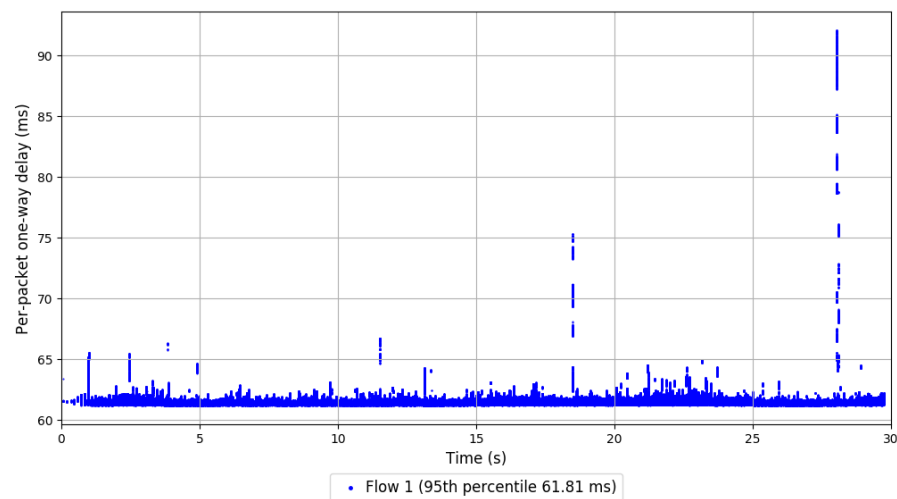
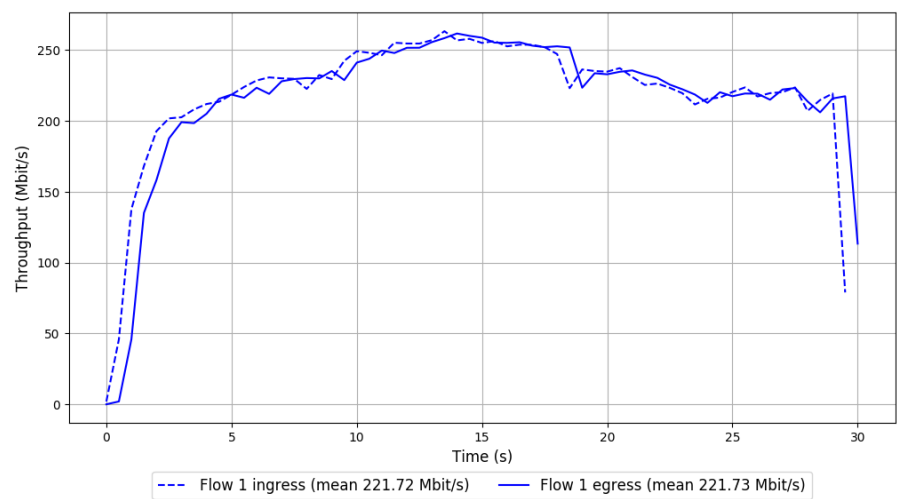
-- Flow 1:

Average throughput: 221.73 Mbit/s

95th percentile per-packet one-way delay: 61.811 ms

Loss rate: 0.00%

Run 1: Report of Indigo — Data Link

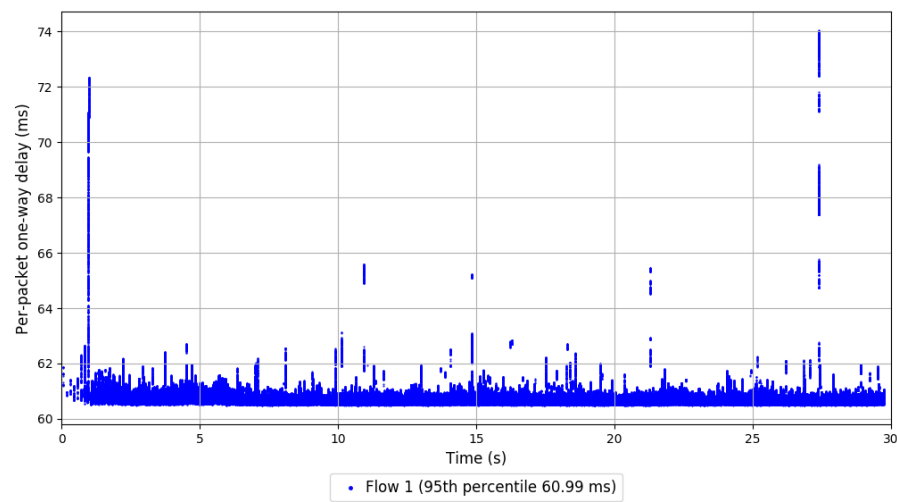
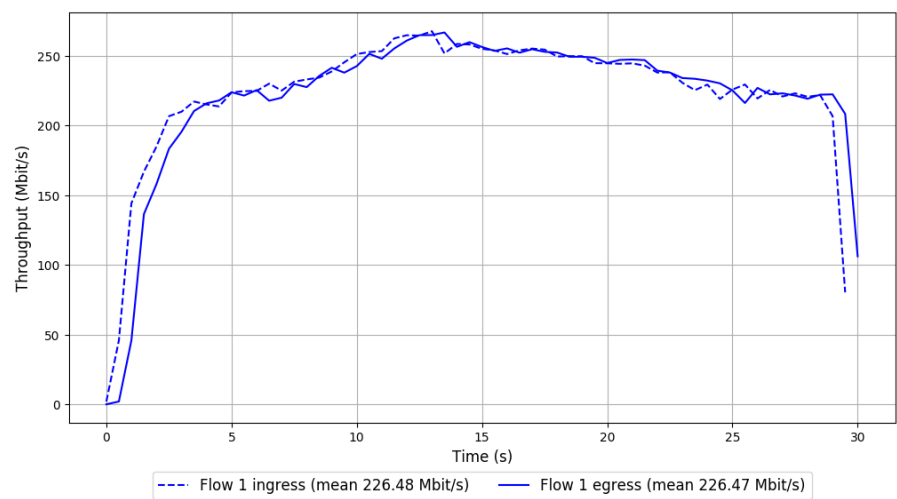


Run 2: Statistics of Indigo

Start at: 2019-01-25 12:35:25  
End at: 2019-01-25 12:35:56  
Local clock offset: -0.195 ms  
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2019-01-25 15:26:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 226.47 Mbit/s  
95th percentile per-packet one-way delay: 60.988 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 226.47 Mbit/s  
95th percentile per-packet one-way delay: 60.988 ms  
Loss rate: 0.02%

Run 2: Report of Indigo — Data Link

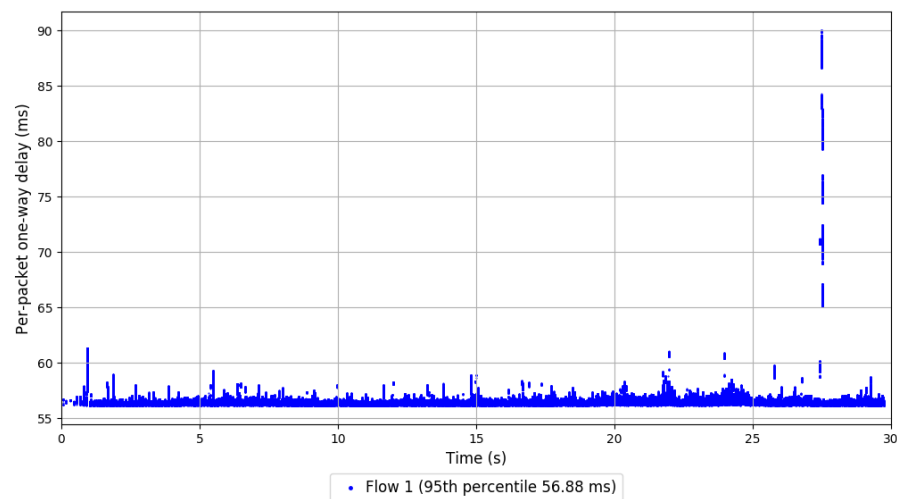
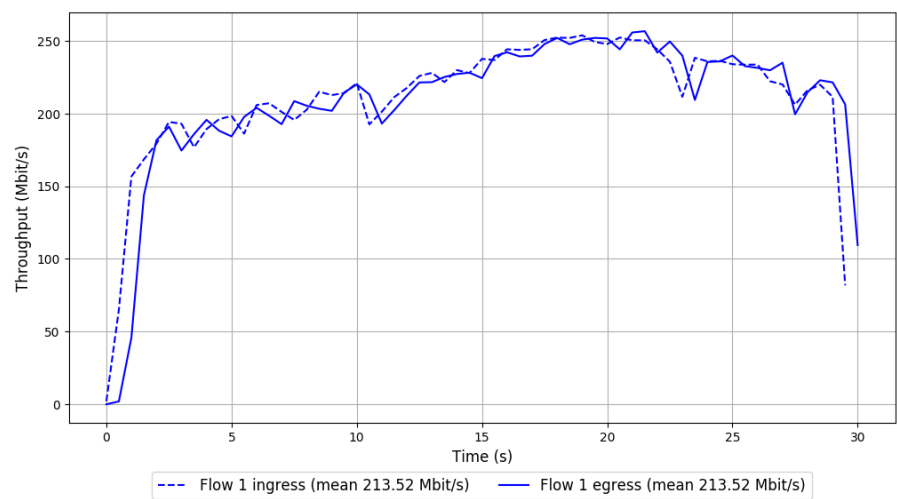


Run 3: Statistics of Indigo

Start at: 2019-01-25 13:06:39  
End at: 2019-01-25 13:07:09  
Local clock offset: -0.061 ms  
Remote clock offset: -0.673 ms

# Below is generated by plot.py at 2019-01-25 15:26:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 213.52 Mbit/s  
95th percentile per-packet one-way delay: 56.882 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 213.52 Mbit/s  
95th percentile per-packet one-way delay: 56.882 ms  
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link





Run 4: Statistics of Indigo

Start at: 2019-01-25 13:39:08

End at: 2019-01-25 13:39:38

Local clock offset: 0.08 ms

Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2019-01-25 15:26:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 222.27 Mbit/s

95th percentile per-packet one-way delay: 57.825 ms

Loss rate: 0.00%

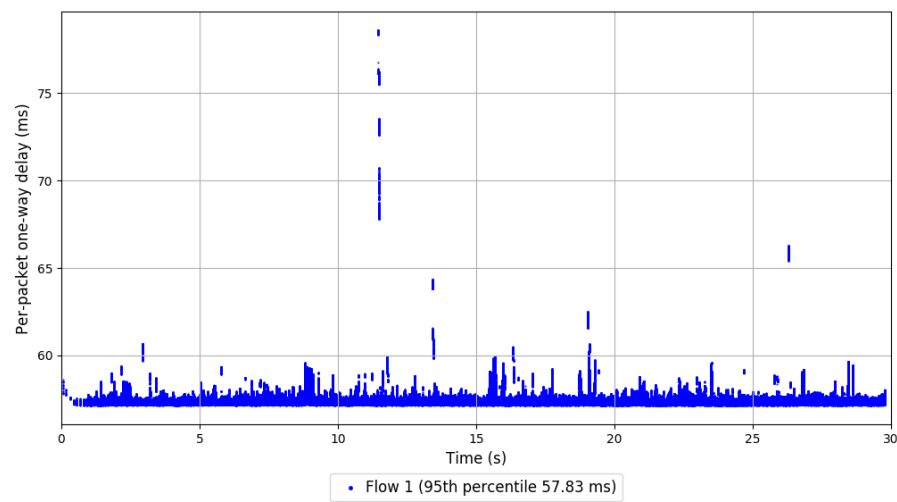
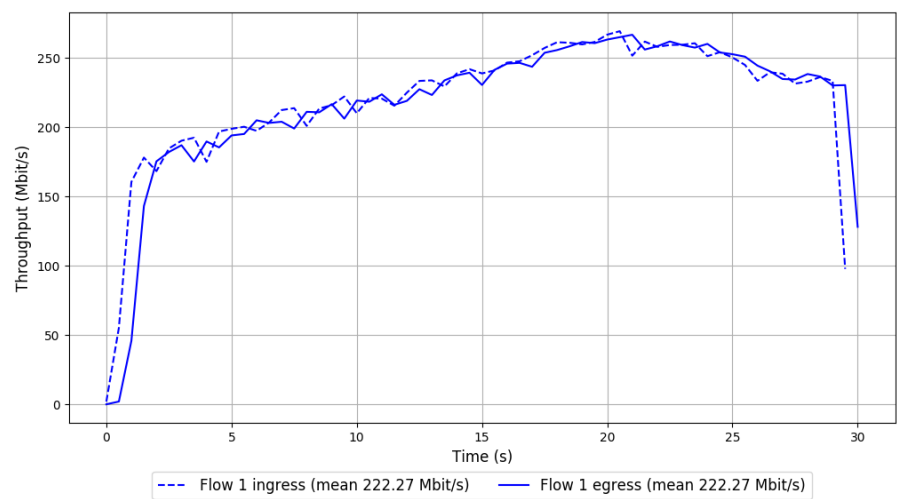
-- Flow 1:

Average throughput: 222.27 Mbit/s

95th percentile per-packet one-way delay: 57.825 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link

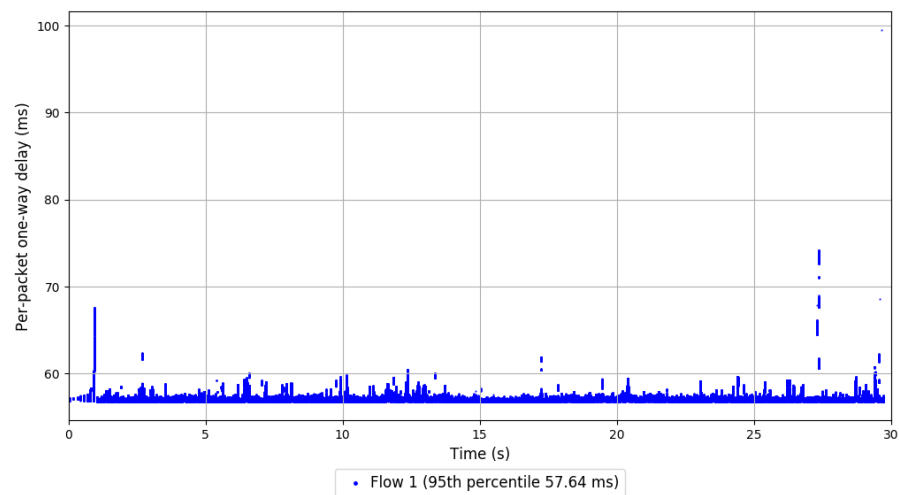
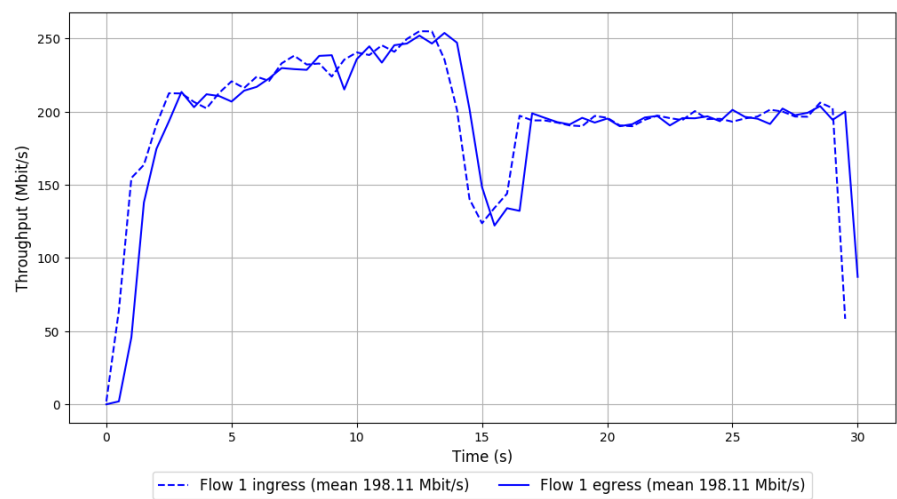


Run 5: Statistics of Indigo

Start at: 2019-01-25 14:10:27  
End at: 2019-01-25 14:10:57  
Local clock offset: 0.148 ms  
Remote clock offset: -0.247 ms

# Below is generated by plot.py at 2019-01-25 15:26:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 198.11 Mbit/s  
95th percentile per-packet one-way delay: 57.636 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 198.11 Mbit/s  
95th percentile per-packet one-way delay: 57.636 ms  
Loss rate: 0.00%

Run 5: Report of Indigo — Data Link

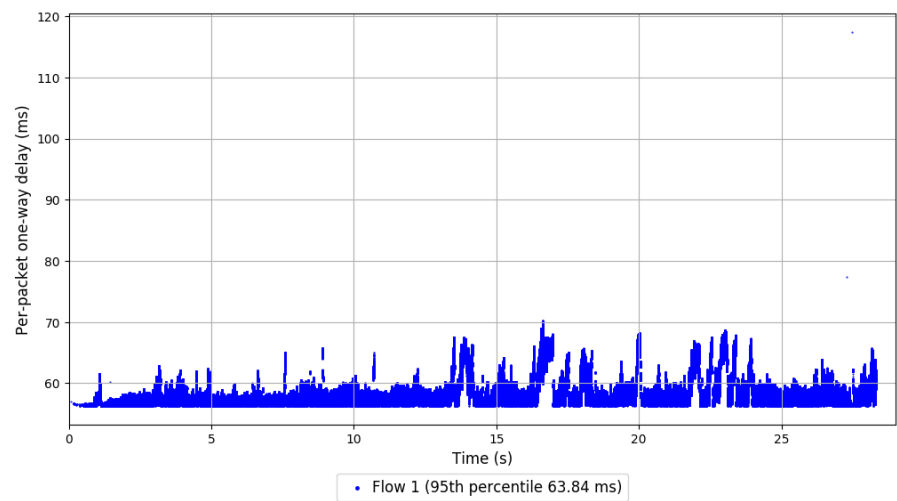
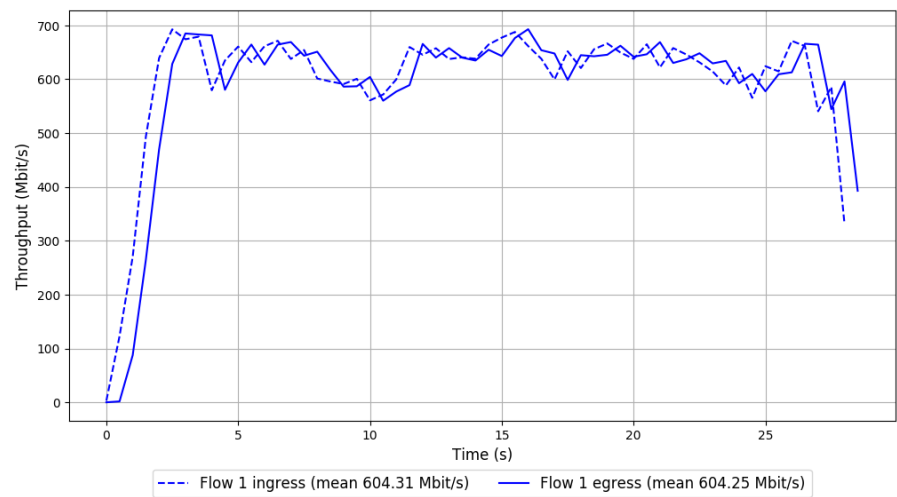


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-01-25 11:54:42  
End at: 2019-01-25 11:55:12  
Local clock offset: 0.302 ms  
Remote clock offset: -0.223 ms

# Below is generated by plot.py at 2019-01-25 15:26:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 604.25 Mbit/s  
95th percentile per-packet one-way delay: 63.837 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 604.25 Mbit/s  
95th percentile per-packet one-way delay: 63.837 ms  
Loss rate: 0.01%

Run 1: Report of Indigo-MusesC3 — Data Link

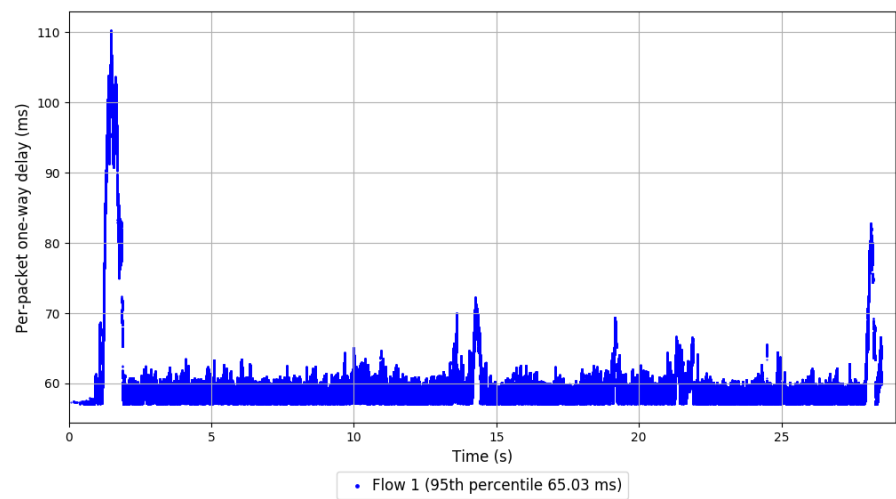
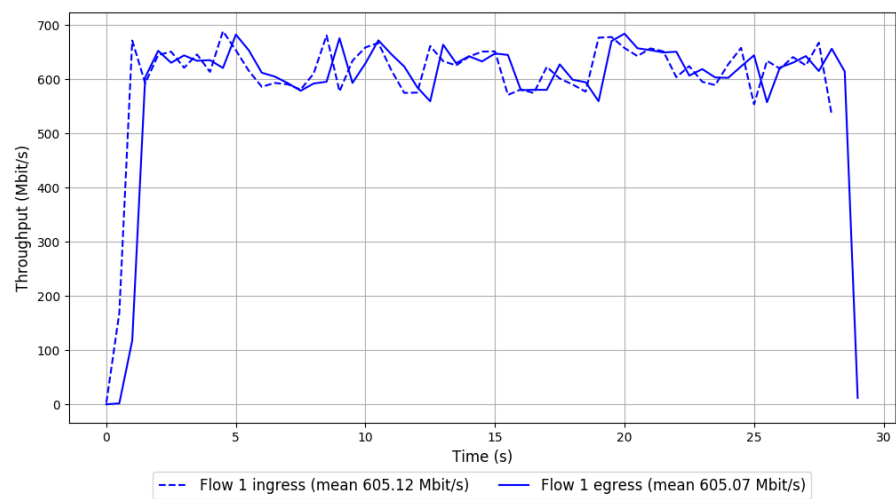


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-01-25 12:26:16  
End at: 2019-01-25 12:26:46  
Local clock offset: -0.212 ms  
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2019-01-25 15:27:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 605.07 Mbit/s  
95th percentile per-packet one-way delay: 65.030 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 605.07 Mbit/s  
95th percentile per-packet one-way delay: 65.030 ms  
Loss rate: 0.00%

Run 2: Report of Indigo-MusesC3 — Data Link



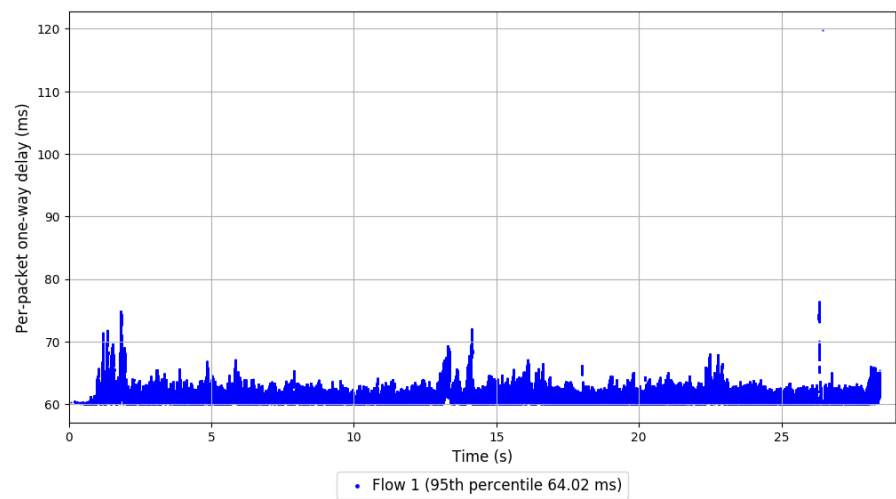
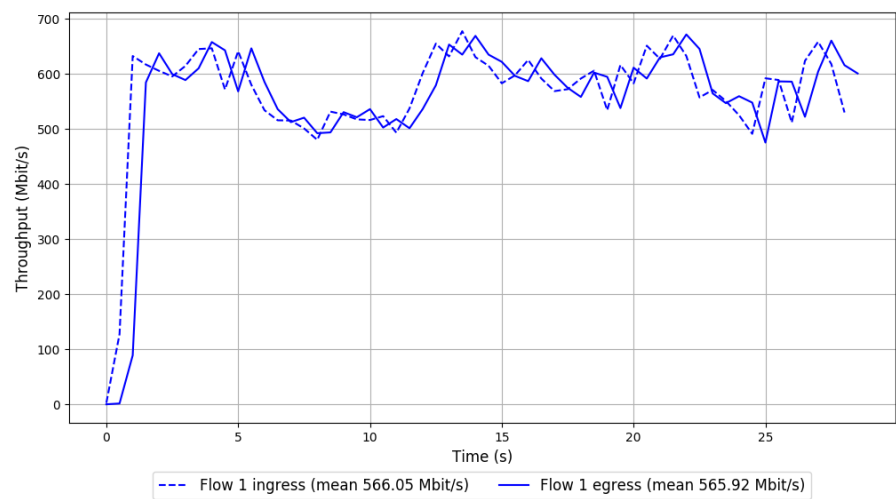


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-01-25 12:57:27  
End at: 2019-01-25 12:57:57  
Local clock offset: 0.031 ms  
Remote clock offset: -0.305 ms

# Below is generated by plot.py at 2019-01-25 15:27:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 565.92 Mbit/s  
95th percentile per-packet one-way delay: 64.017 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 565.92 Mbit/s  
95th percentile per-packet one-way delay: 64.017 ms  
Loss rate: 0.03%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-01-25 13:29:32

End at: 2019-01-25 13:30:02

Local clock offset: -0.282 ms

Remote clock offset: 0.088 ms

# Below is generated by plot.py at 2019-01-25 15:28:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 607.05 Mbit/s

95th percentile per-packet one-way delay: 67.168 ms

Loss rate: 0.00%

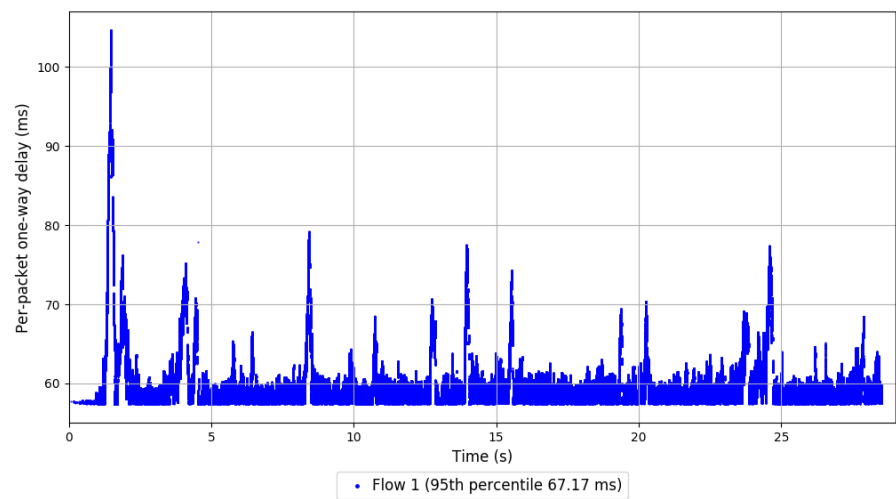
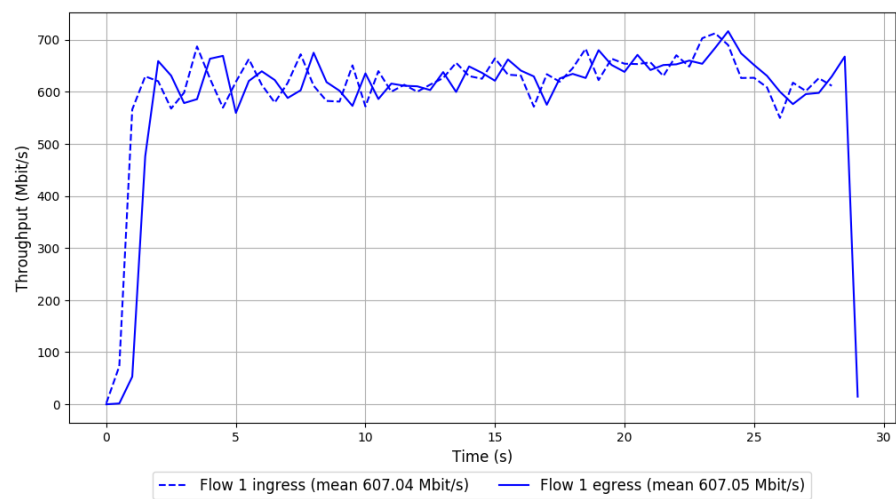
-- Flow 1:

Average throughput: 607.05 Mbit/s

95th percentile per-packet one-way delay: 67.168 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-01-25 14:01:19

End at: 2019-01-25 14:01:49

Local clock offset: -0.117 ms

Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2019-01-25 15:28:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 608.33 Mbit/s

95th percentile per-packet one-way delay: 73.652 ms

Loss rate: 0.00%

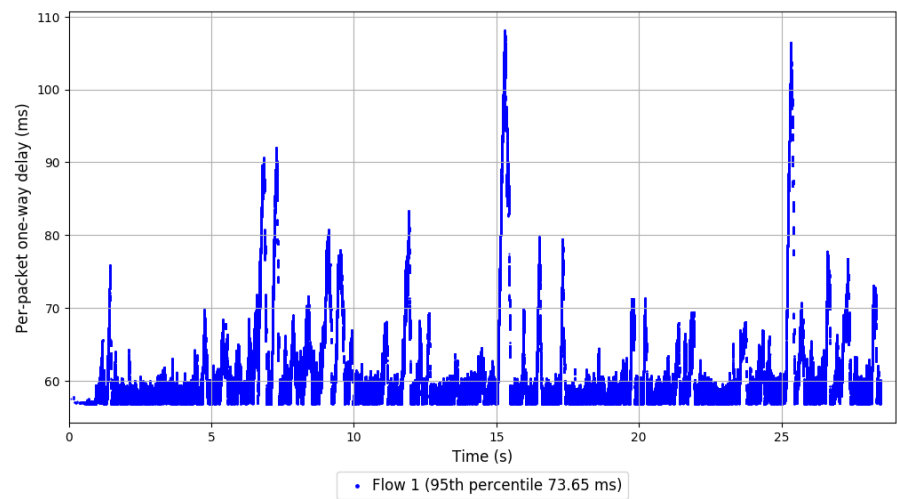
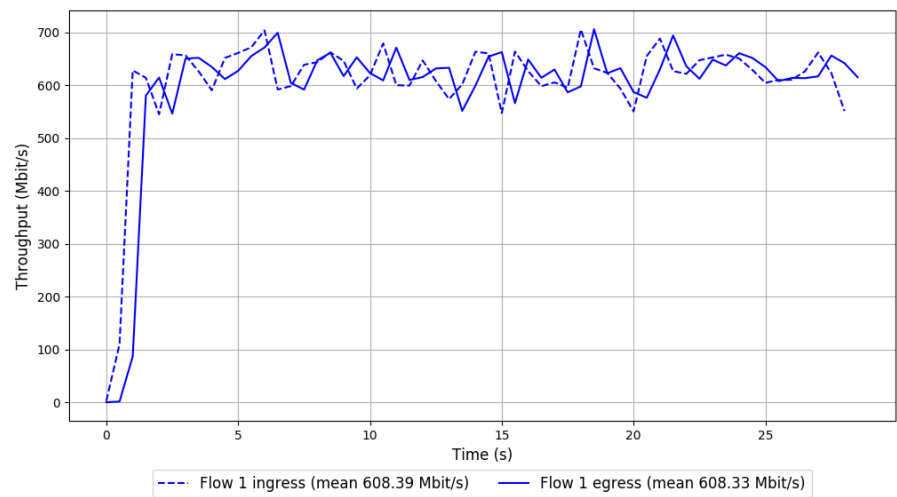
-- Flow 1:

Average throughput: 608.33 Mbit/s

95th percentile per-packet one-way delay: 73.652 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesC3 — Data Link

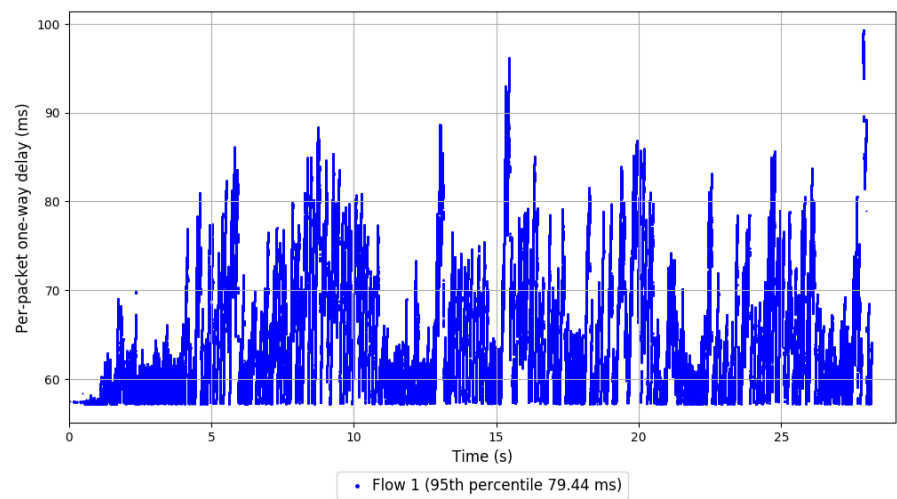
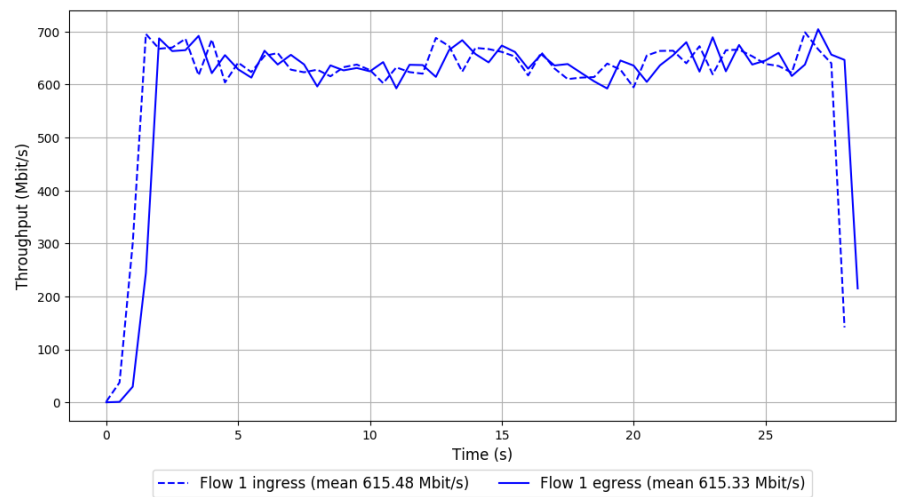


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-01-25 11:48:31  
End at: 2019-01-25 11:49:01  
Local clock offset: -0.459 ms  
Remote clock offset: -0.567 ms

# Below is generated by plot.py at 2019-01-25 15:29:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 615.33 Mbit/s  
95th percentile per-packet one-way delay: 79.435 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 615.33 Mbit/s  
95th percentile per-packet one-way delay: 79.435 ms  
Loss rate: 0.02%

Run 1: Report of Indigo-MusesC5 — Data Link



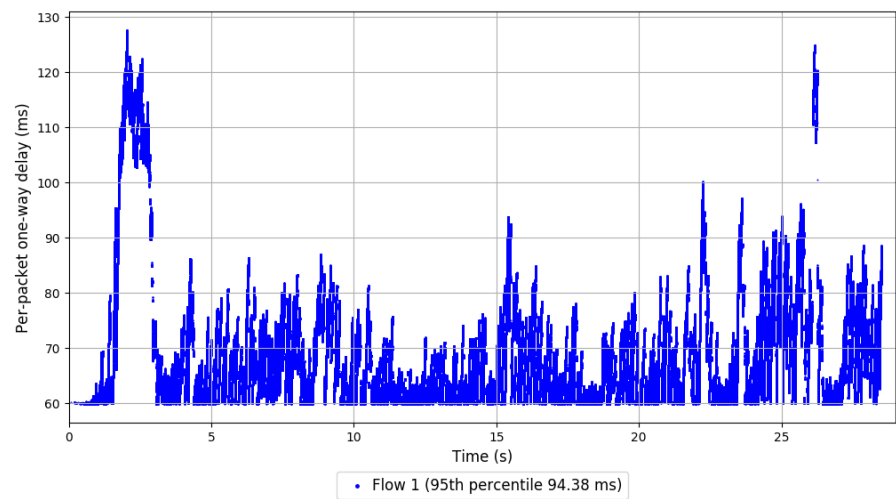
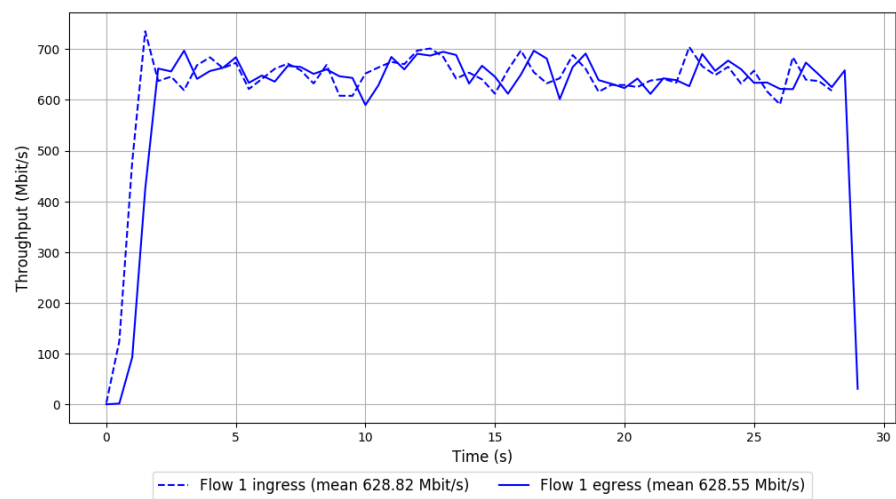


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-01-25 12:20:07  
End at: 2019-01-25 12:20:37  
Local clock offset: -0.579 ms  
Remote clock offset: -0.862 ms

# Below is generated by plot.py at 2019-01-25 15:31:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 628.55 Mbit/s  
95th percentile per-packet one-way delay: 94.378 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 628.55 Mbit/s  
95th percentile per-packet one-way delay: 94.378 ms  
Loss rate: 0.05%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-01-25 12:51:20

End at: 2019-01-25 12:51:50

Local clock offset: 0.058 ms

Remote clock offset: -0.13 ms

# Below is generated by plot.py at 2019-01-25 15:32:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 620.83 Mbit/s

95th percentile per-packet one-way delay: 79.456 ms

Loss rate: 0.05%

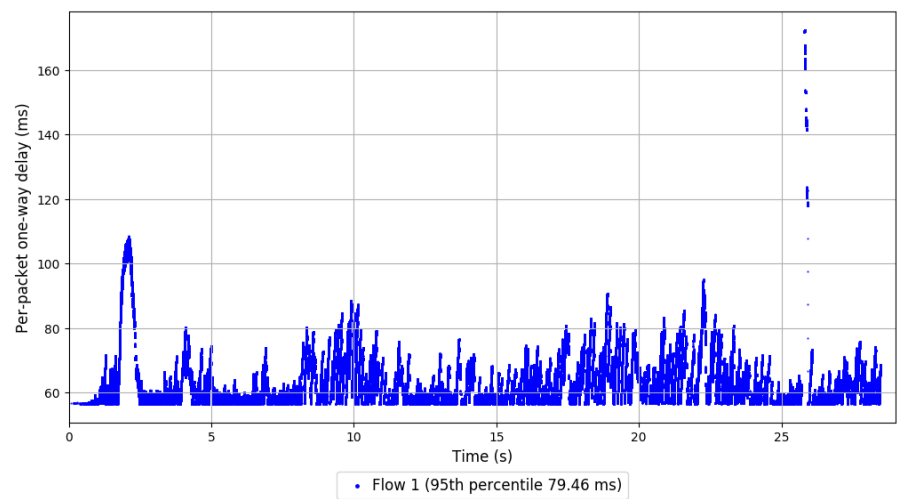
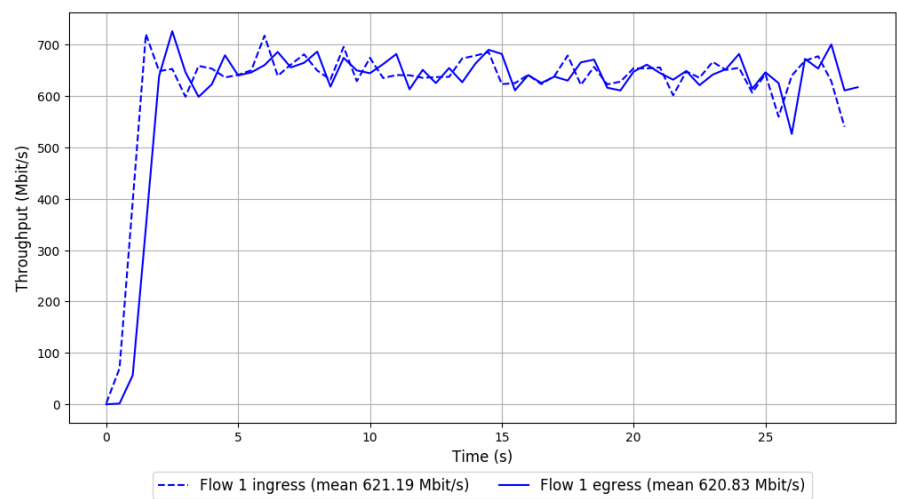
-- Flow 1:

Average throughput: 620.83 Mbit/s

95th percentile per-packet one-way delay: 79.456 ms

Loss rate: 0.05%

Run 3: Report of Indigo-MusesC5 — Data Link

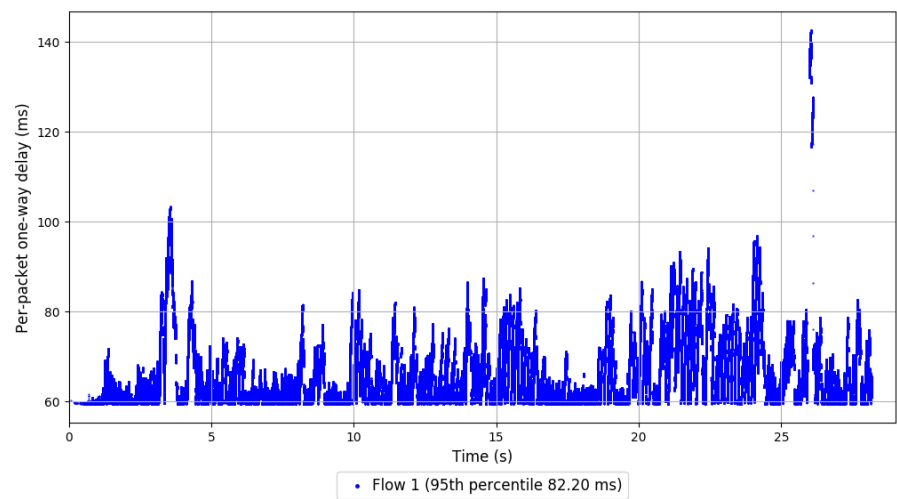
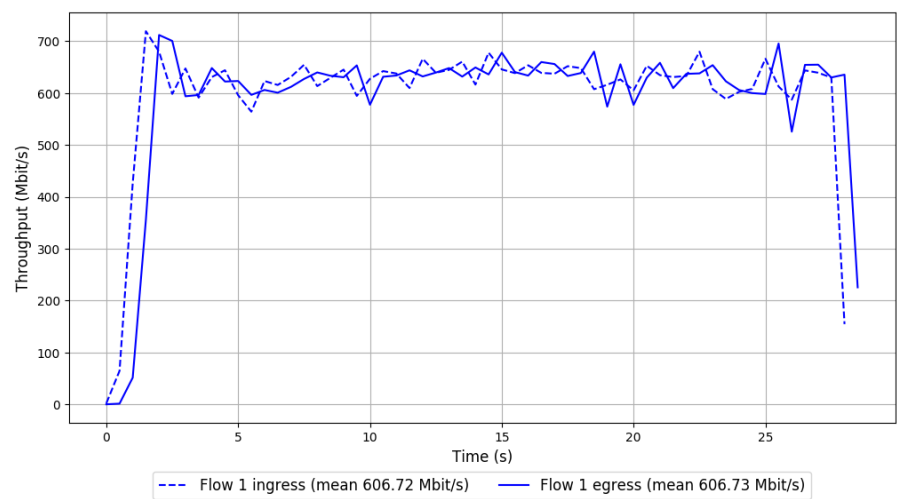


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-01-25 13:23:09  
End at: 2019-01-25 13:23:39  
Local clock offset: 0.179 ms  
Remote clock offset: -0.598 ms

# Below is generated by plot.py at 2019-01-25 15:37:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 606.73 Mbit/s  
95th percentile per-packet one-way delay: 82.198 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 606.73 Mbit/s  
95th percentile per-packet one-way delay: 82.198 ms  
Loss rate: 0.01%

Run 4: Report of Indigo-MusesC5 — Data Link

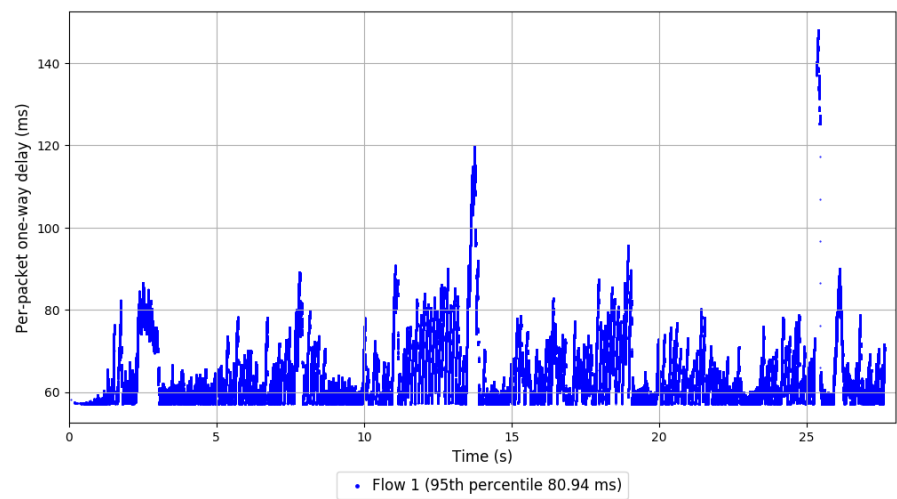
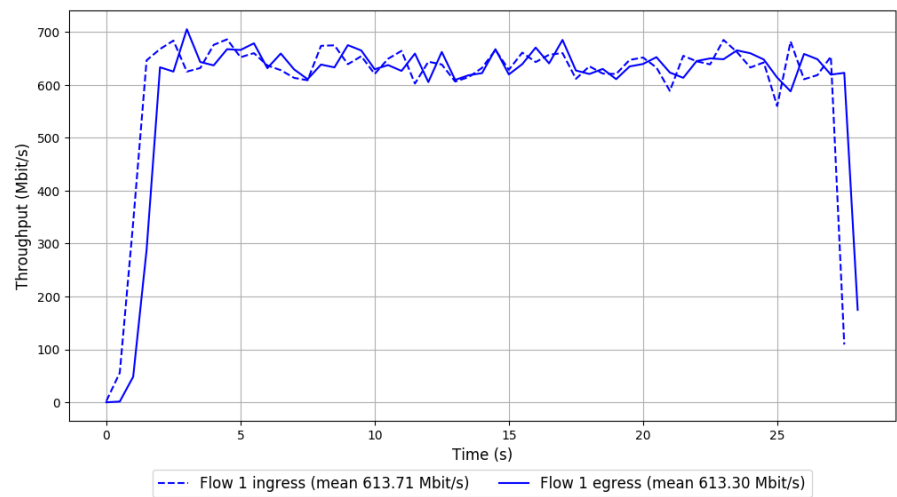


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-01-25 13:55:12  
End at: 2019-01-25 13:55:42  
Local clock offset: -0.417 ms  
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2019-01-25 15:38:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 613.30 Mbit/s  
95th percentile per-packet one-way delay: 80.939 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 613.30 Mbit/s  
95th percentile per-packet one-way delay: 80.939 ms  
Loss rate: 0.07%

Run 5: Report of Indigo-MusesC5 — Data Link





Run 1: Statistics of Indigo-MusesD

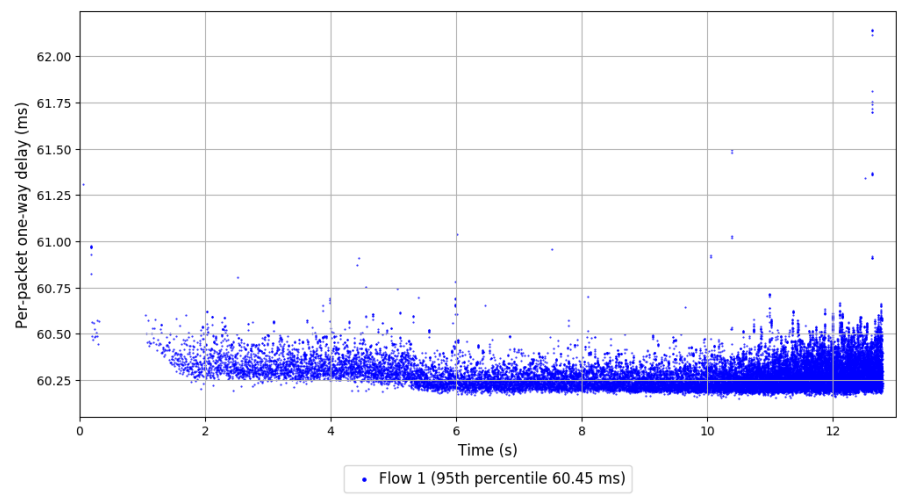
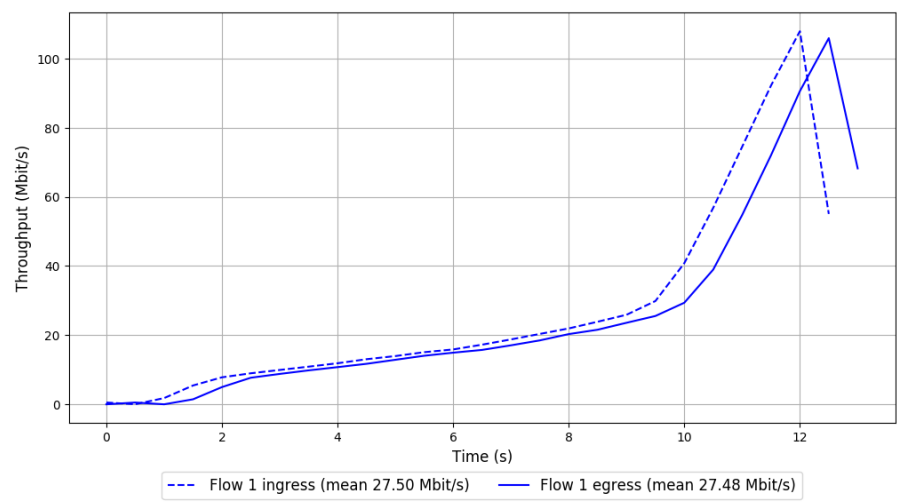
Start at: 2019-01-25 11:38:09

End at: 2019-01-25 11:38:39

Local clock offset: -0.04 ms

Remote clock offset: -0.129 ms

Run 1: Report of Indigo-MusesD — Data Link

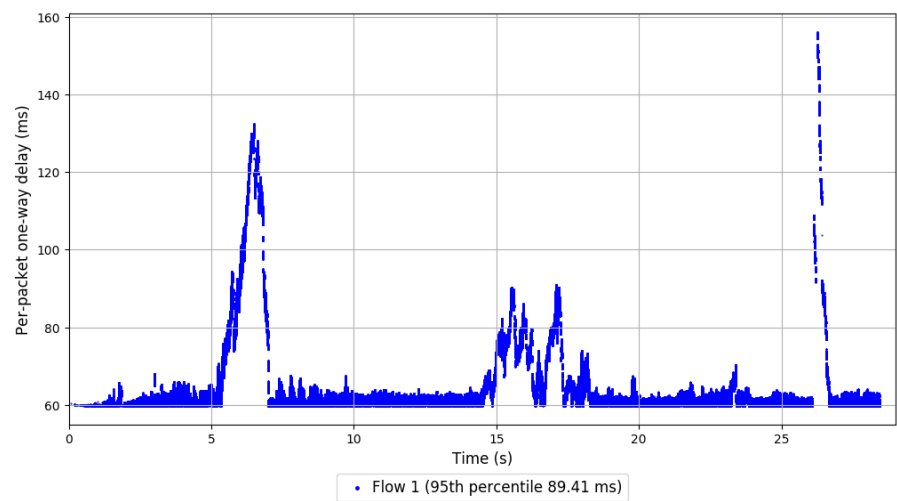
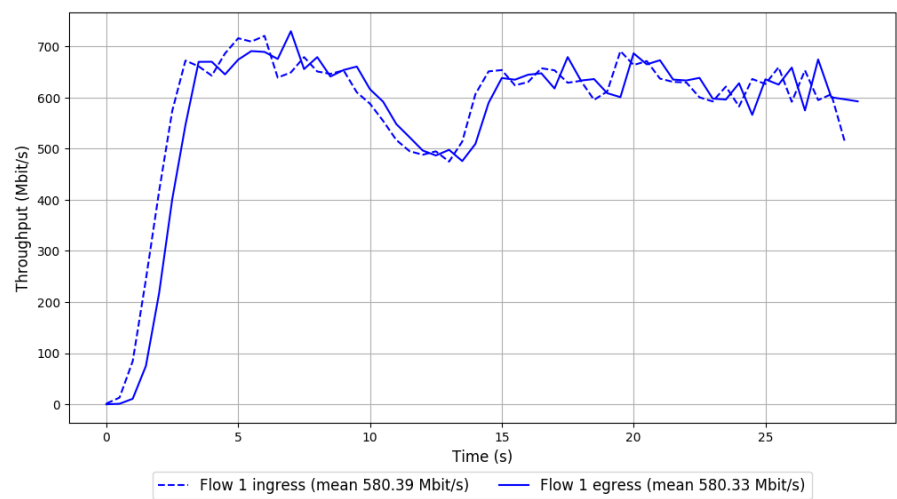


Run 2: Statistics of Indigo-MusesD

Start at: 2019-01-25 12:09:16  
End at: 2019-01-25 12:09:46  
Local clock offset: -0.189 ms  
Remote clock offset: -0.652 ms

# Below is generated by plot.py at 2019-01-25 15:38:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 580.33 Mbit/s  
95th percentile per-packet one-way delay: 89.414 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 580.33 Mbit/s  
95th percentile per-packet one-way delay: 89.414 ms  
Loss rate: 0.02%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-01-25 12:40:39

End at: 2019-01-25 12:41:09

Local clock offset: -0.175 ms

Remote clock offset: 0.34 ms

# Below is generated by plot.py at 2019-01-25 15:39:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 585.62 Mbit/s

95th percentile per-packet one-way delay: 71.736 ms

Loss rate: 0.00%

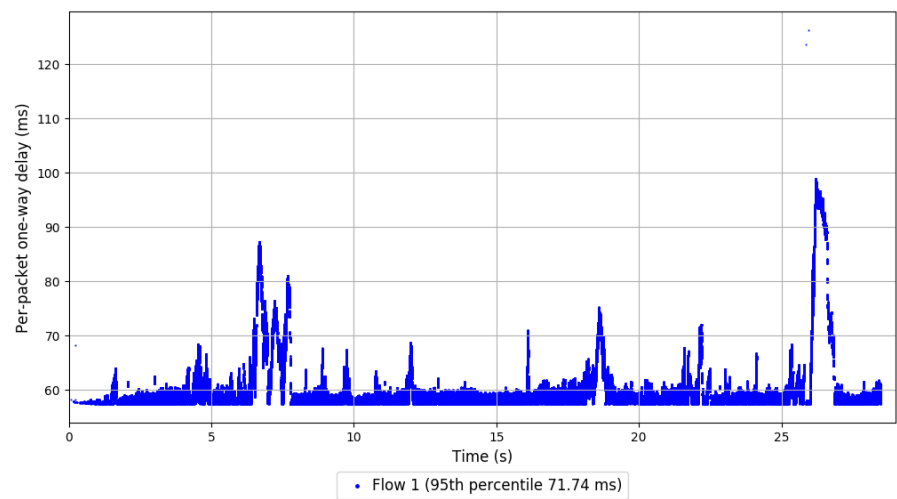
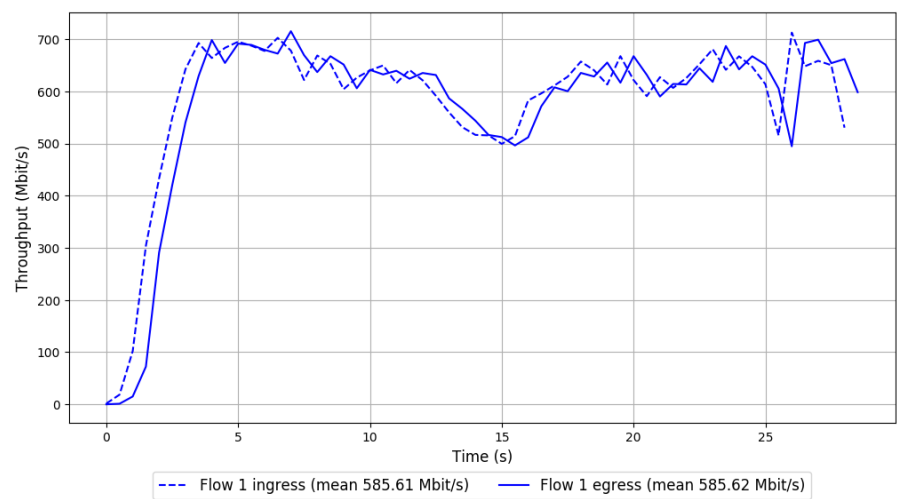
-- Flow 1:

Average throughput: 585.62 Mbit/s

95th percentile per-packet one-way delay: 71.736 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesD — Data Link

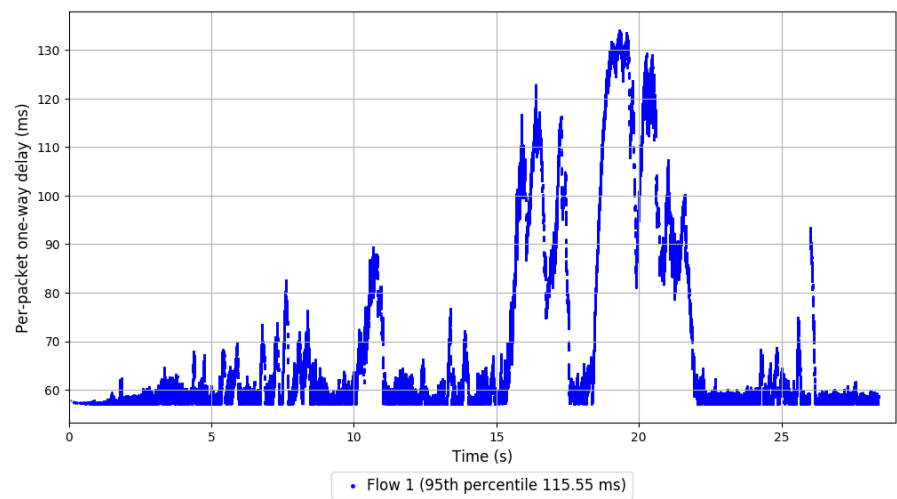
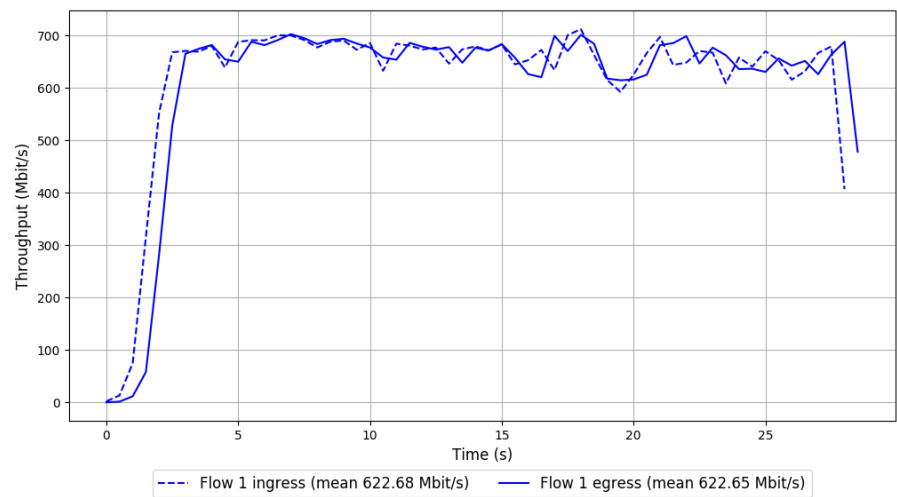


Run 4: Statistics of Indigo-MusesD

Start at: 2019-01-25 13:11:47  
End at: 2019-01-25 13:12:18  
Local clock offset: -0.295 ms  
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-01-25 15:40:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 622.65 Mbit/s  
95th percentile per-packet one-way delay: 115.549 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 622.65 Mbit/s  
95th percentile per-packet one-way delay: 115.549 ms  
Loss rate: 0.00%

Run 4: Report of Indigo-MusesD — Data Link



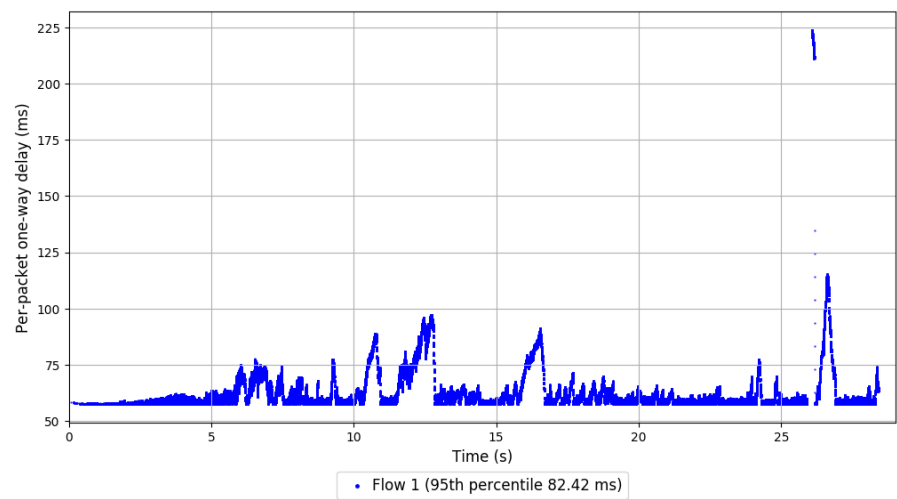
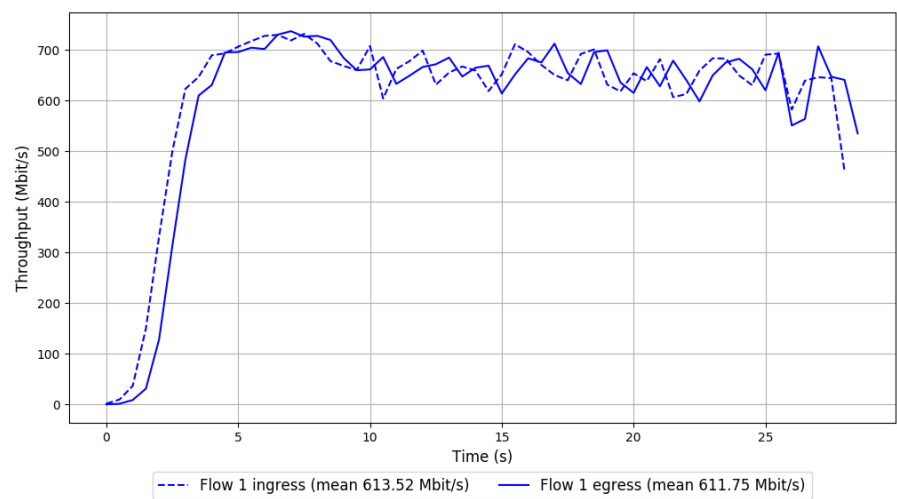


Run 5: Statistics of Indigo-MusesD

Start at: 2019-01-25 13:44:20  
End at: 2019-01-25 13:44:50  
Local clock offset: -0.376 ms  
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2019-01-25 15:41:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 611.75 Mbit/s  
95th percentile per-packet one-way delay: 82.423 ms  
Loss rate: 0.29%  
-- Flow 1:  
Average throughput: 611.75 Mbit/s  
95th percentile per-packet one-way delay: 82.423 ms  
Loss rate: 0.29%

Run 5: Report of Indigo-MusesD — Data Link

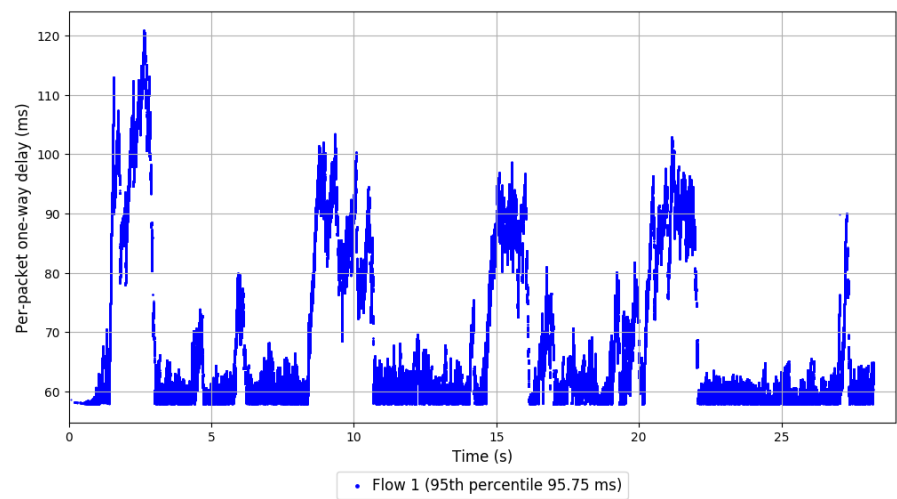
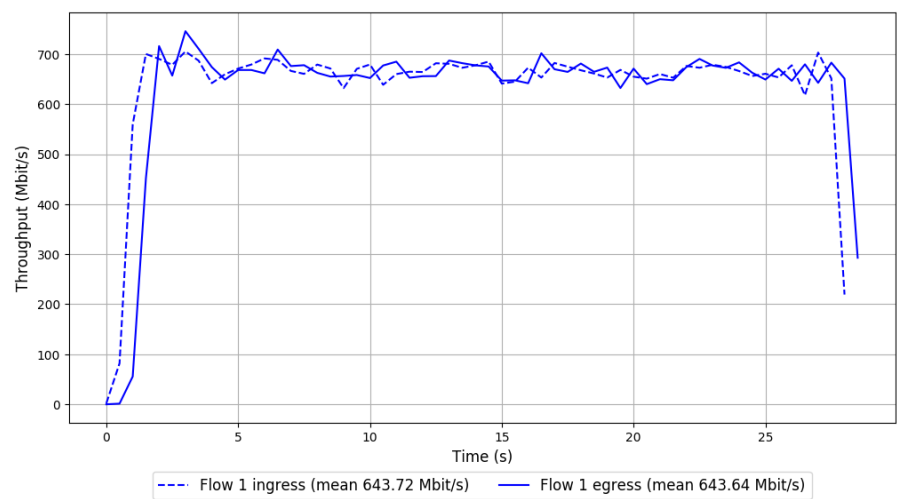


```
Run 1: Statistics of Indigo-MusesT

Start at: 2019-01-25 11:42:08
End at: 2019-01-25 11:42:38
Local clock offset: 0.15 ms
Remote clock offset: 0.7 ms

# Below is generated by plot.py at 2019-01-25 15:43:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 643.64 Mbit/s
95th percentile per-packet one-way delay: 95.746 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 643.64 Mbit/s
95th percentile per-packet one-way delay: 95.746 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo-MusesT — Data Link

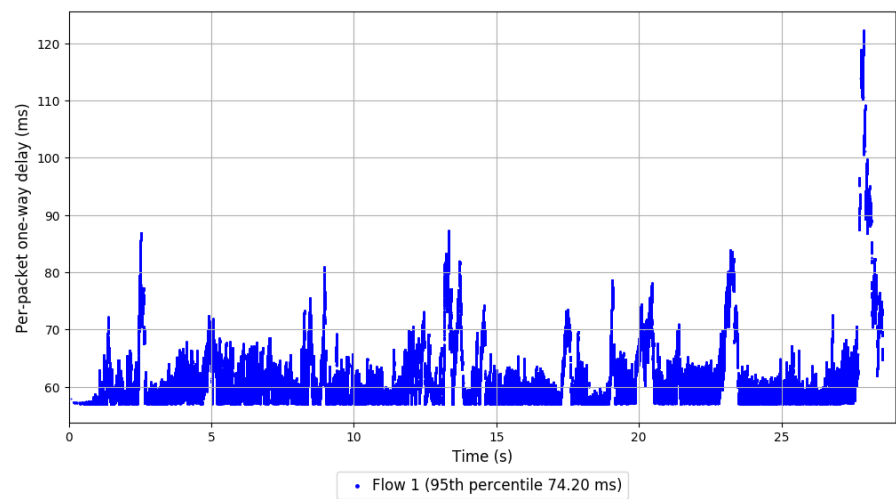
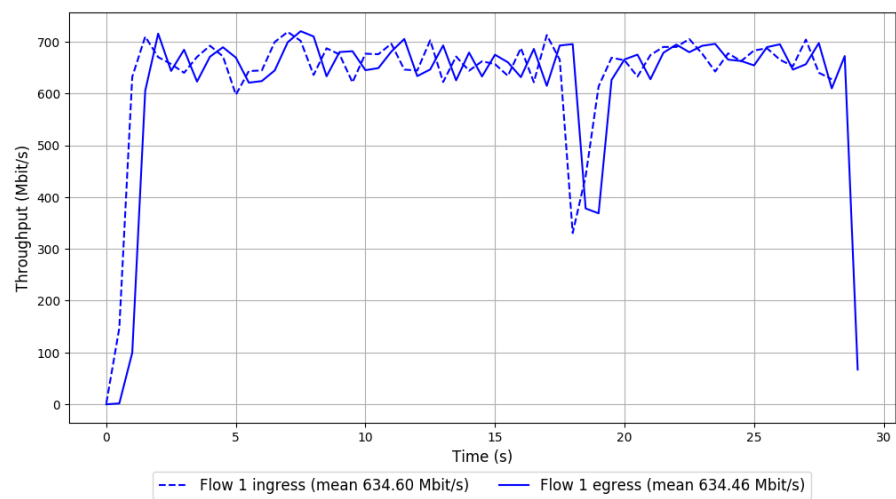


Run 2: Statistics of Indigo-MusesT

Start at: 2019-01-25 12:13:40  
End at: 2019-01-25 12:14:11  
Local clock offset: -0.426 ms  
Remote clock offset: -0.198 ms

# Below is generated by plot.py at 2019-01-25 15:44:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 634.46 Mbit/s  
95th percentile per-packet one-way delay: 74.200 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 634.46 Mbit/s  
95th percentile per-packet one-way delay: 74.200 ms  
Loss rate: 0.02%

Run 2: Report of Indigo-MusesT — Data Link

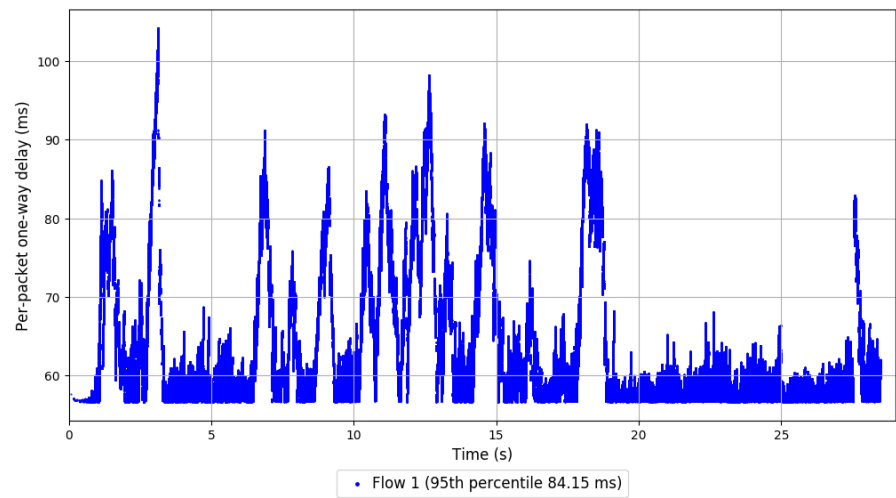
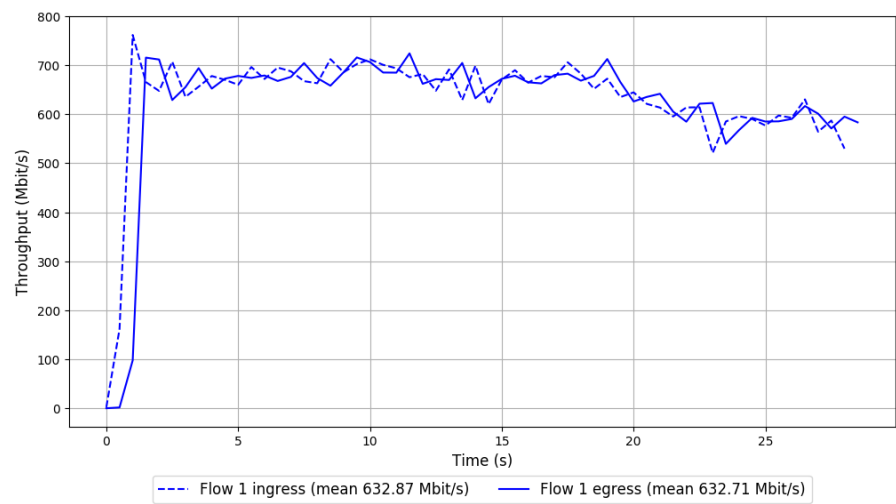


Run 3: Statistics of Indigo-MusesT

Start at: 2019-01-25 12:45:01  
End at: 2019-01-25 12:45:31  
Local clock offset: 0.28 ms  
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2019-01-25 15:49:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 632.71 Mbit/s  
95th percentile per-packet one-way delay: 84.149 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 632.71 Mbit/s  
95th percentile per-packet one-way delay: 84.149 ms  
Loss rate: 0.03%

Run 3: Report of Indigo-MusesT — Data Link





Run 4: Statistics of Indigo-MusesT

Start at: 2019-01-25 13:16:14

End at: 2019-01-25 13:16:44

Local clock offset: -0.301 ms

Remote clock offset: 0.081 ms

# Below is generated by plot.py at 2019-01-25 15:49:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 608.15 Mbit/s

95th percentile per-packet one-way delay: 64.937 ms

Loss rate: 0.01%

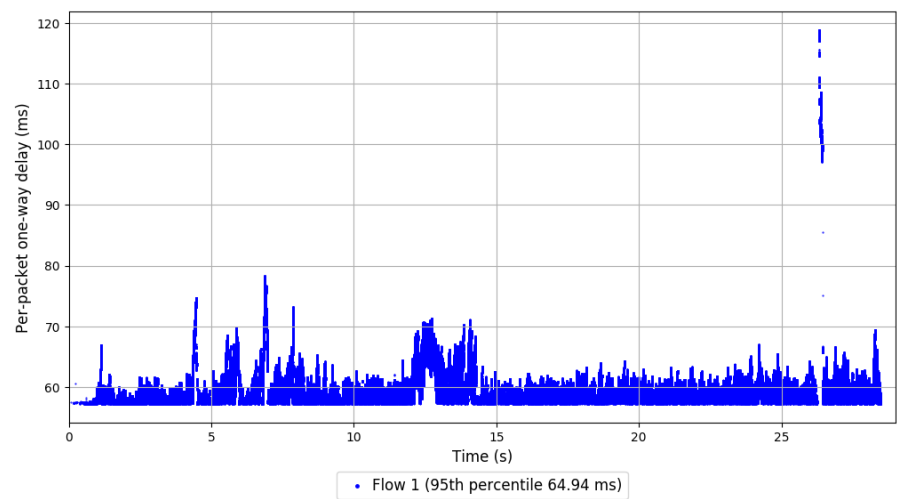
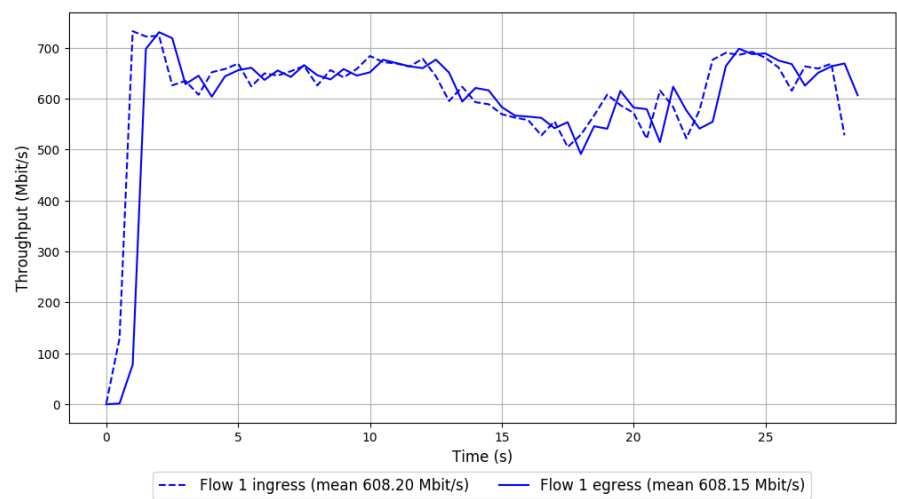
-- Flow 1:

Average throughput: 608.15 Mbit/s

95th percentile per-packet one-way delay: 64.937 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesT — Data Link

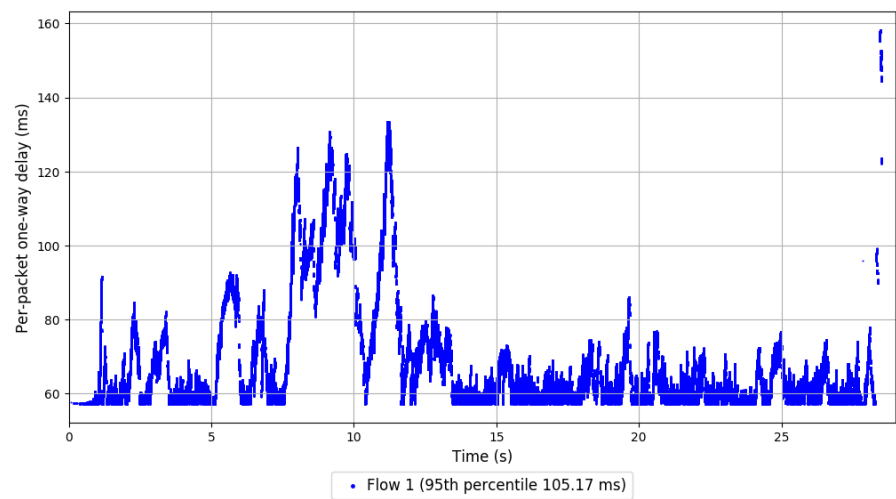
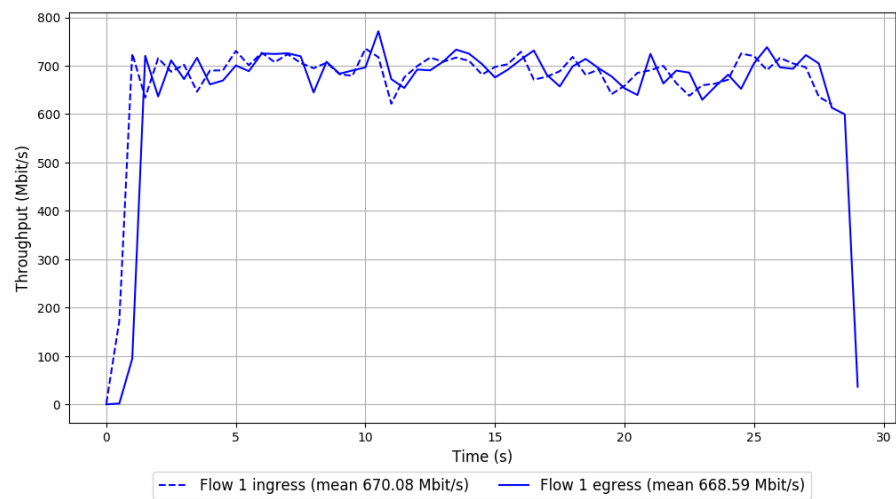


Run 5: Statistics of Indigo-MusesT

Start at: 2019-01-25 13:48:45  
End at: 2019-01-25 13:49:15  
Local clock offset: -0.413 ms  
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2019-01-25 15:50:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 668.59 Mbit/s  
95th percentile per-packet one-way delay: 105.165 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 668.59 Mbit/s  
95th percentile per-packet one-way delay: 105.165 ms  
Loss rate: 0.22%

Run 5: Report of Indigo-MusesT — Data Link

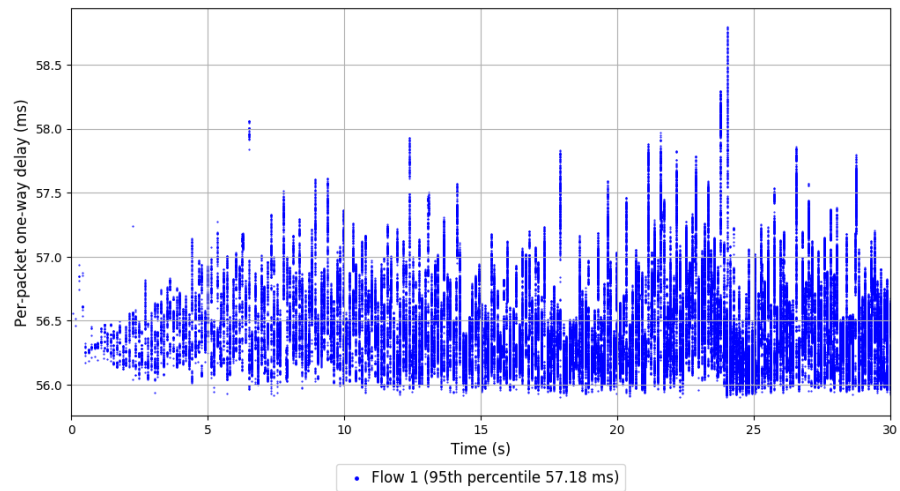
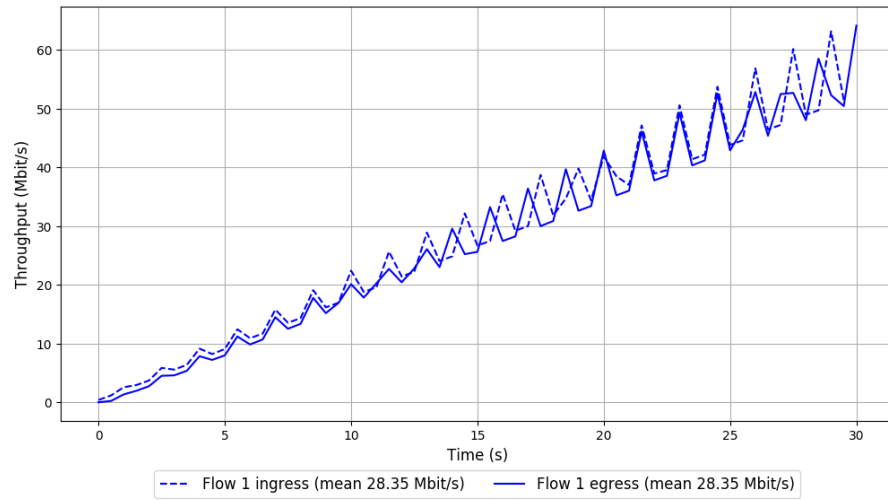


Run 1: Statistics of LEDBAT

Start at: 2019-01-25 11:40:57  
End at: 2019-01-25 11:41:27  
Local clock offset: 0.353 ms  
Remote clock offset: -0.811 ms

# Below is generated by plot.py at 2019-01-25 15:50:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 28.35 Mbit/s  
95th percentile per-packet one-way delay: 57.179 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 28.35 Mbit/s  
95th percentile per-packet one-way delay: 57.179 ms  
Loss rate: 0.00%

# Run 1: Report of LEDBAT — Data Link

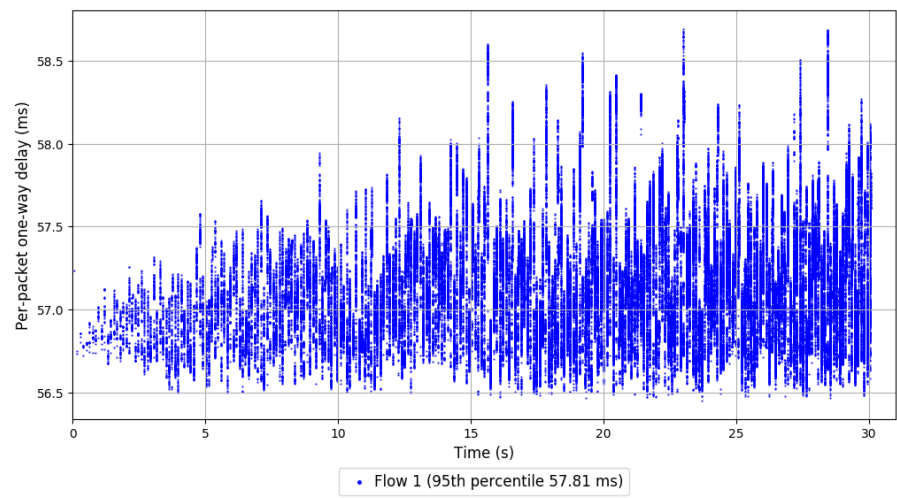
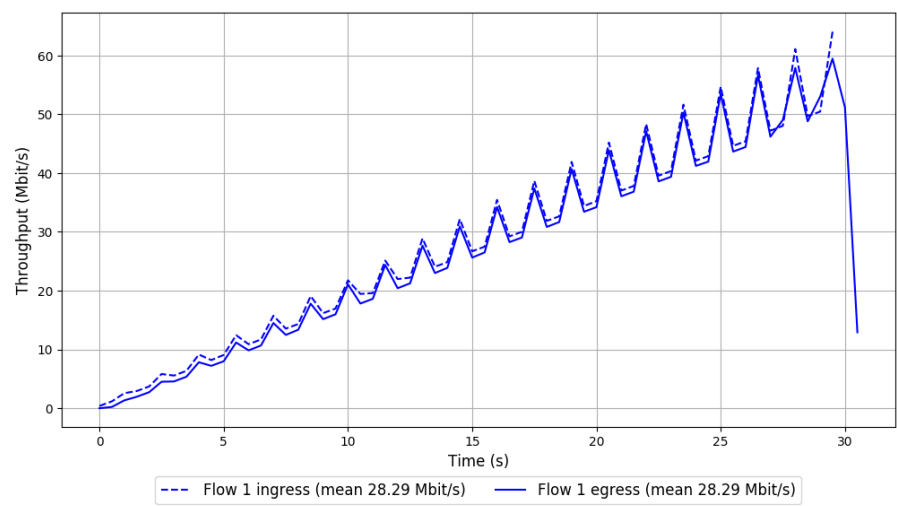


Run 2: Statistics of LEDBAT

Start at: 2019-01-25 12:12:29  
End at: 2019-01-25 12:12:59  
Local clock offset: -0.222 ms  
Remote clock offset: -0.777 ms

# Below is generated by plot.py at 2019-01-25 15:50:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 28.29 Mbit/s  
95th percentile per-packet one-way delay: 57.814 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 28.29 Mbit/s  
95th percentile per-packet one-way delay: 57.814 ms  
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



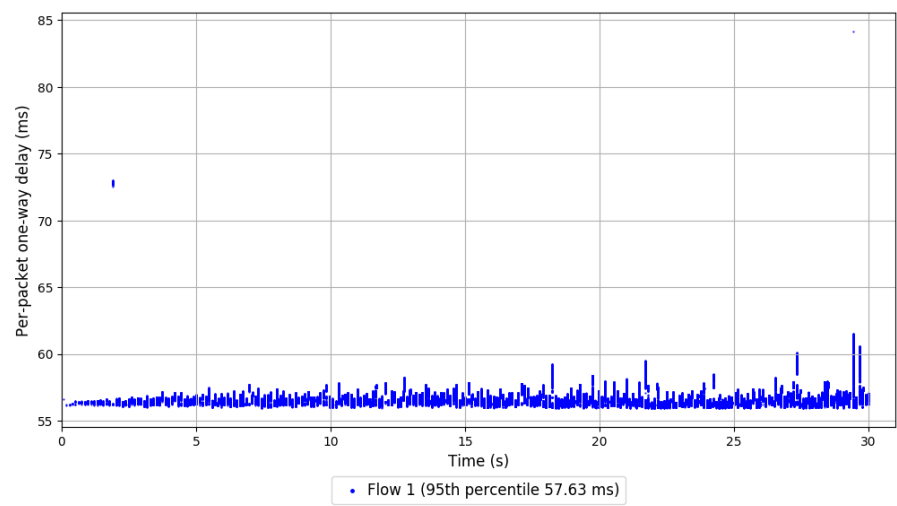
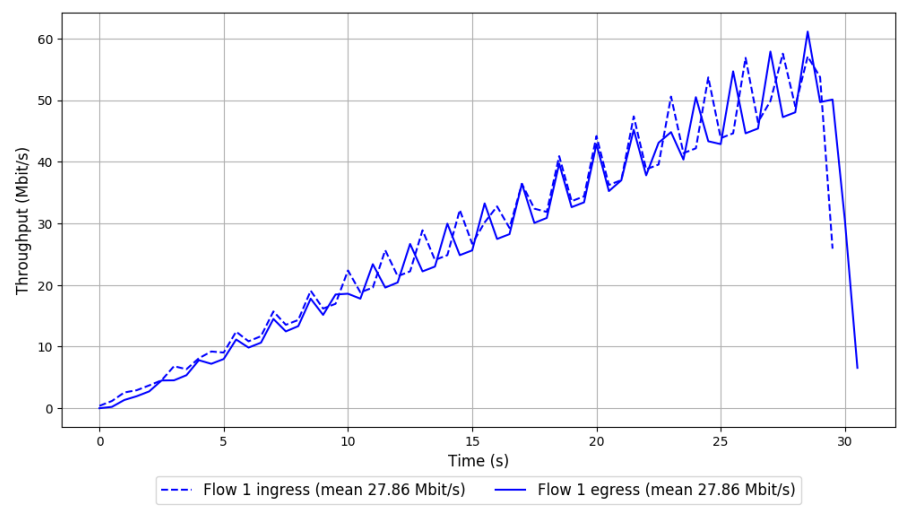


Run 3: Statistics of LEDBAT

Start at: 2019-01-25 12:43:50  
End at: 2019-01-25 12:44:20  
Local clock offset: 0.282 ms  
Remote clock offset: -0.872 ms

# Below is generated by plot.py at 2019-01-25 15:50:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 27.86 Mbit/s  
95th percentile per-packet one-way delay: 57.632 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 27.86 Mbit/s  
95th percentile per-packet one-way delay: 57.632 ms  
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

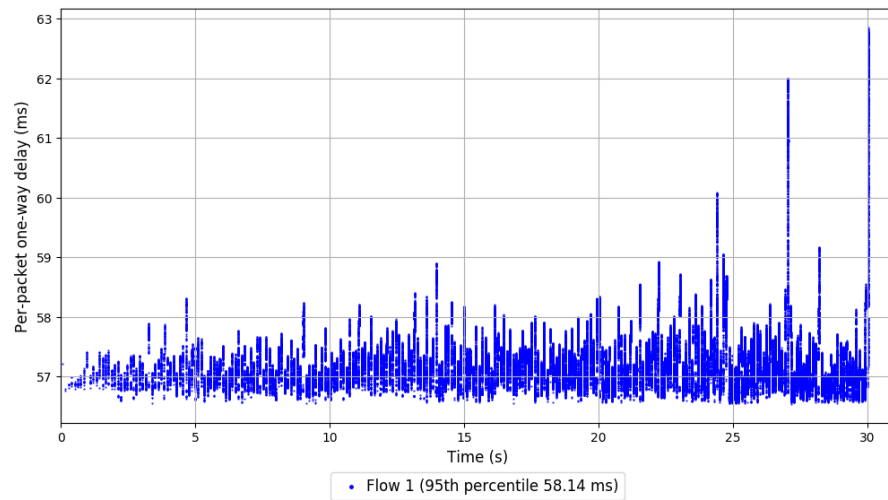
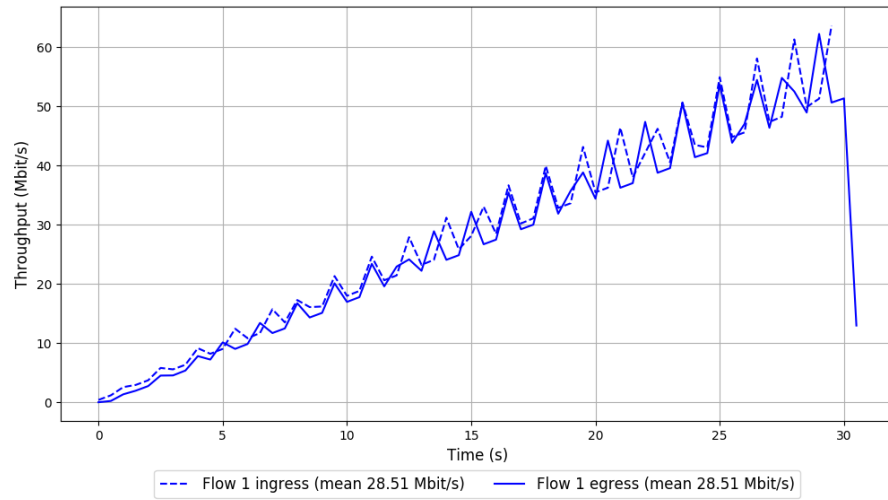


Run 4: Statistics of LEDBAT

Start at: 2019-01-25 13:15:03  
End at: 2019-01-25 13:15:33  
Local clock offset: -0.023 ms  
Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2019-01-25 15:50:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 28.51 Mbit/s  
95th percentile per-packet one-way delay: 58.144 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 28.51 Mbit/s  
95th percentile per-packet one-way delay: 58.144 ms  
Loss rate: 0.00%

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



Run 5: Statistics of LEDBAT

Start at: 2019-01-25 13:47:34

End at: 2019-01-25 13:48:04

Local clock offset: -0.131 ms

Remote clock offset: -0.76 ms

# Below is generated by plot.py at 2019-01-25 15:50:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 28.42 Mbit/s

95th percentile per-packet one-way delay: 58.114 ms

Loss rate: 0.00%

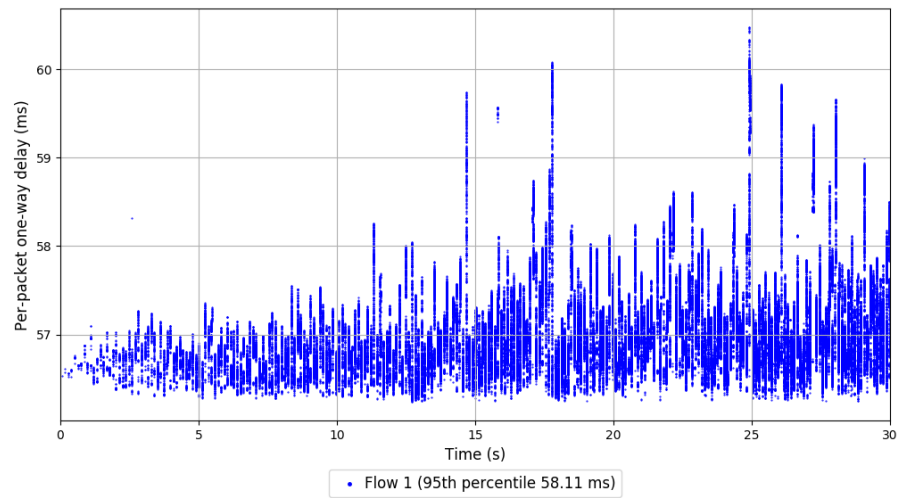
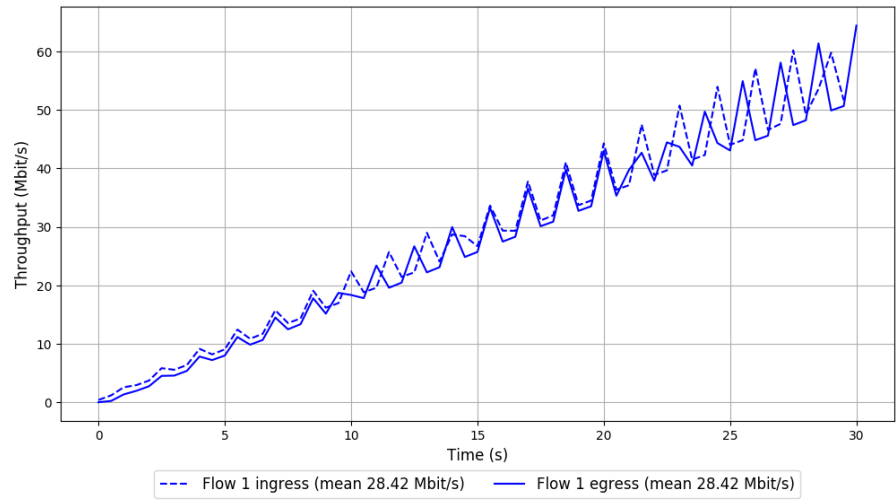
-- Flow 1:

Average throughput: 28.42 Mbit/s

95th percentile per-packet one-way delay: 58.114 ms

Loss rate: 0.00%

## Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-01-25 12:00:41

End at: 2019-01-25 12:01:11

Local clock offset: 0.138 ms

Remote clock offset: 0.652 ms

# Below is generated by plot.py at 2019-01-25 16:00:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 473.10 Mbit/s

95th percentile per-packet one-way delay: 169.491 ms

Loss rate: 4.41%

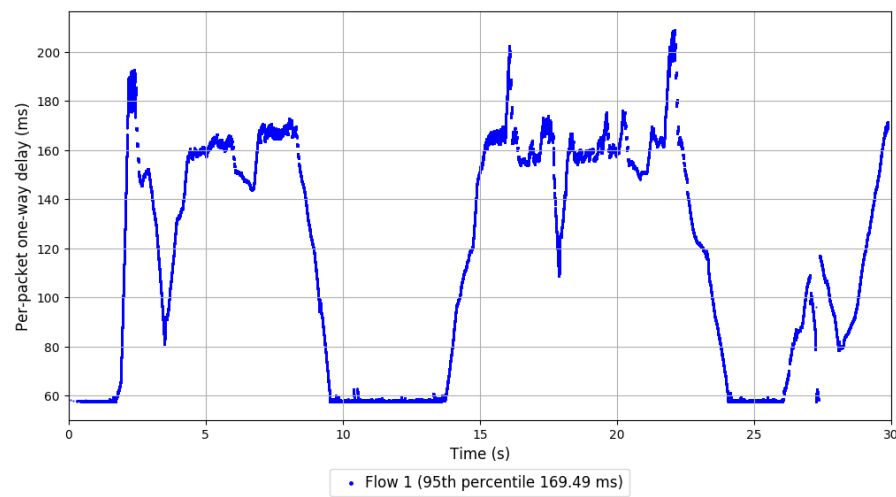
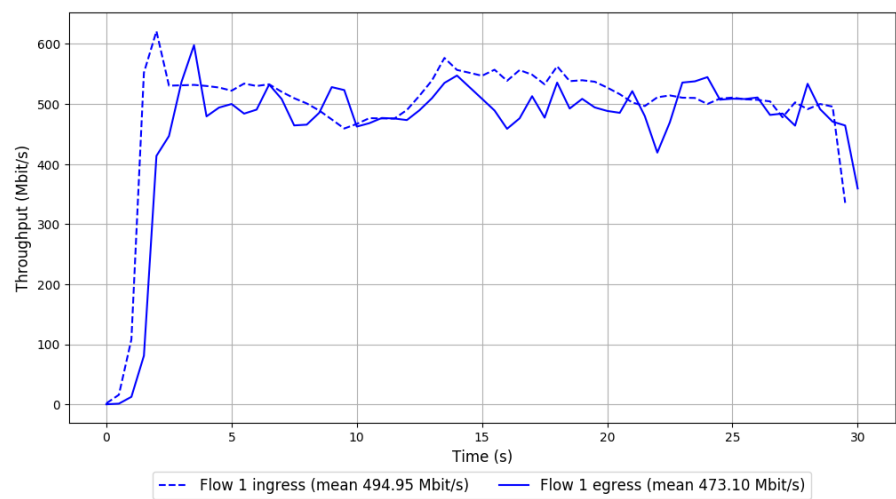
-- Flow 1:

Average throughput: 473.10 Mbit/s

95th percentile per-packet one-way delay: 169.491 ms

Loss rate: 4.41%

Run 1: Report of PCC-Allegro — Data Link



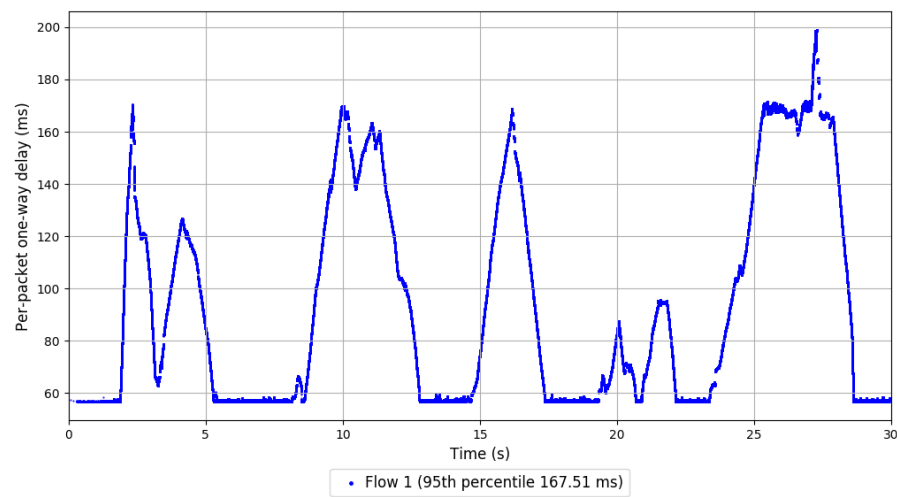
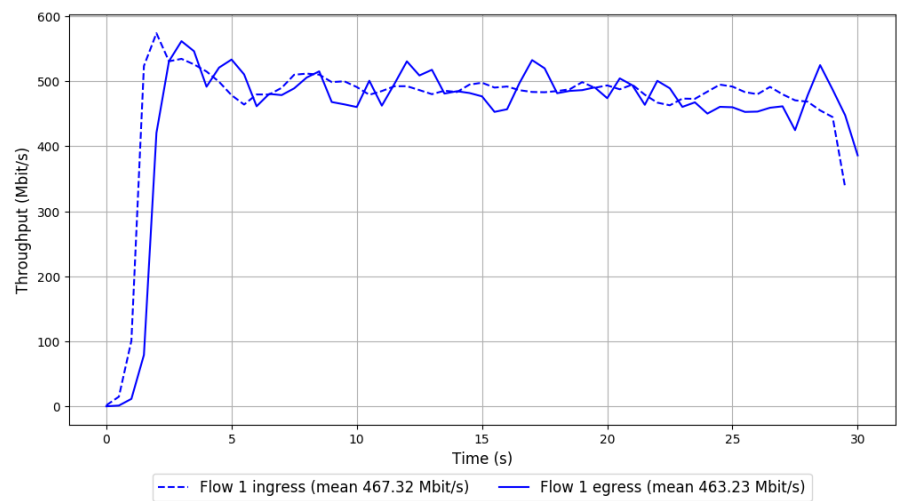


Run 2: Statistics of PCC-Allegro

Start at: 2019-01-25 12:32:13  
End at: 2019-01-25 12:32:43  
Local clock offset: -0.161 ms  
Remote clock offset: -0.868 ms

# Below is generated by plot.py at 2019-01-25 16:00:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 463.23 Mbit/s  
95th percentile per-packet one-way delay: 167.515 ms  
Loss rate: 0.87%  
-- Flow 1:  
Average throughput: 463.23 Mbit/s  
95th percentile per-packet one-way delay: 167.515 ms  
Loss rate: 0.87%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-01-25 13:03:22

End at: 2019-01-25 13:03:52

Local clock offset: -0.164 ms

Remote clock offset: -0.743 ms

# Below is generated by plot.py at 2019-01-25 16:01:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 463.72 Mbit/s

95th percentile per-packet one-way delay: 162.569 ms

Loss rate: 1.24%

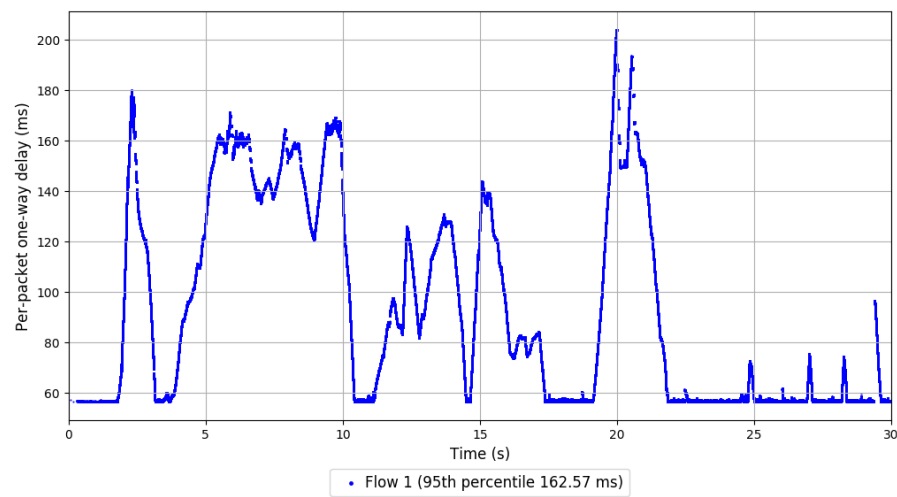
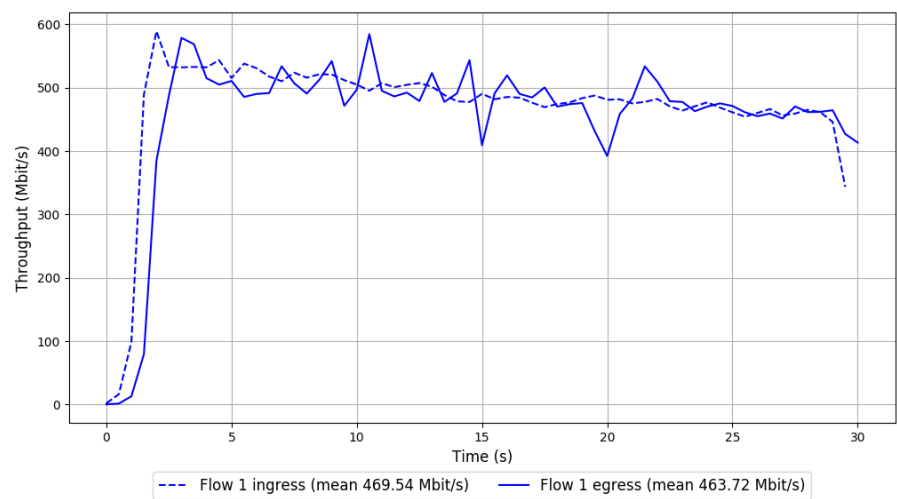
-- Flow 1:

Average throughput: 463.72 Mbit/s

95th percentile per-packet one-way delay: 162.569 ms

Loss rate: 1.24%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-01-25 13:35:52

End at: 2019-01-25 13:36:22

Local clock offset: 0.281 ms

Remote clock offset: -0.797 ms

# Below is generated by plot.py at 2019-01-25 16:02:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 467.02 Mbit/s

95th percentile per-packet one-way delay: 165.005 ms

Loss rate: 2.04%

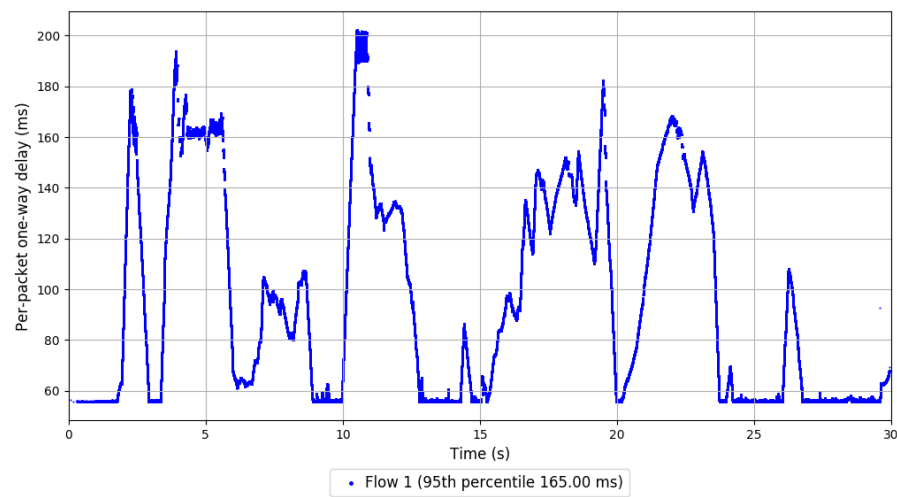
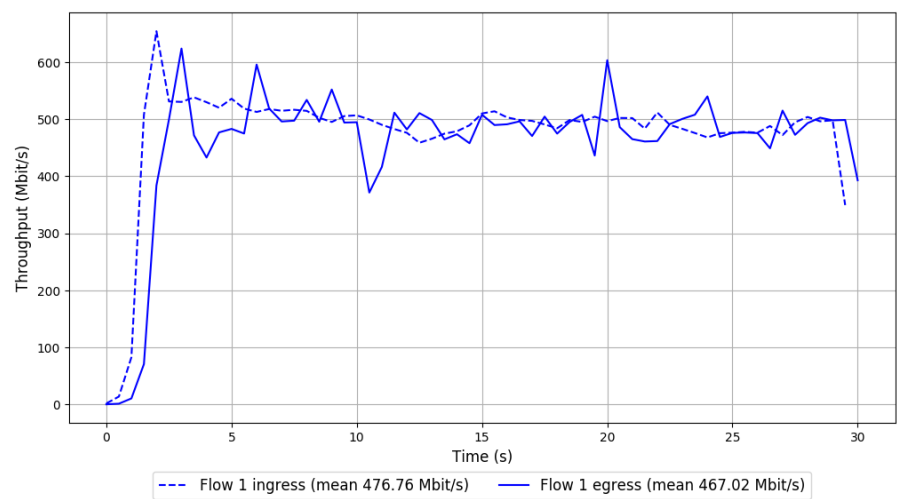
-- Flow 1:

Average throughput: 467.02 Mbit/s

95th percentile per-packet one-way delay: 165.005 ms

Loss rate: 2.04%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-01-25 14:07:10

End at: 2019-01-25 14:07:40

Local clock offset: -0.166 ms

Remote clock offset: 1.57 ms

# Below is generated by plot.py at 2019-01-25 16:02:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 448.99 Mbit/s

95th percentile per-packet one-way delay: 166.515 ms

Loss rate: 1.58%

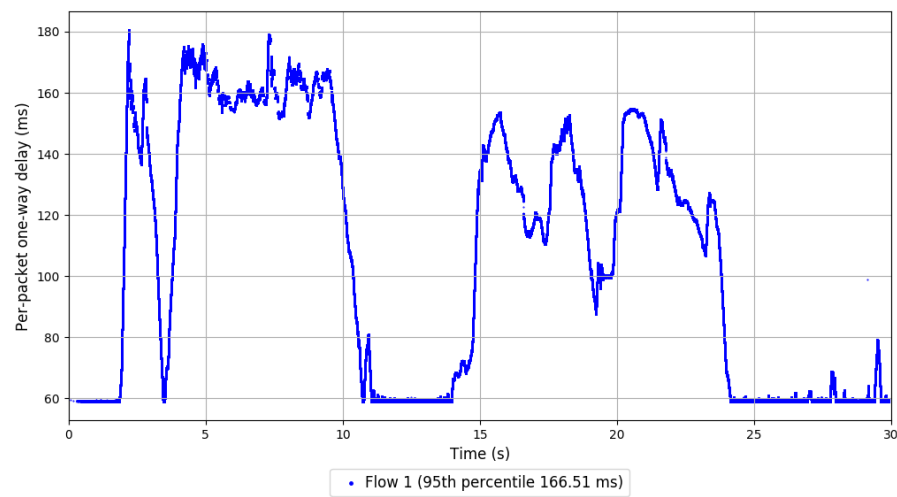
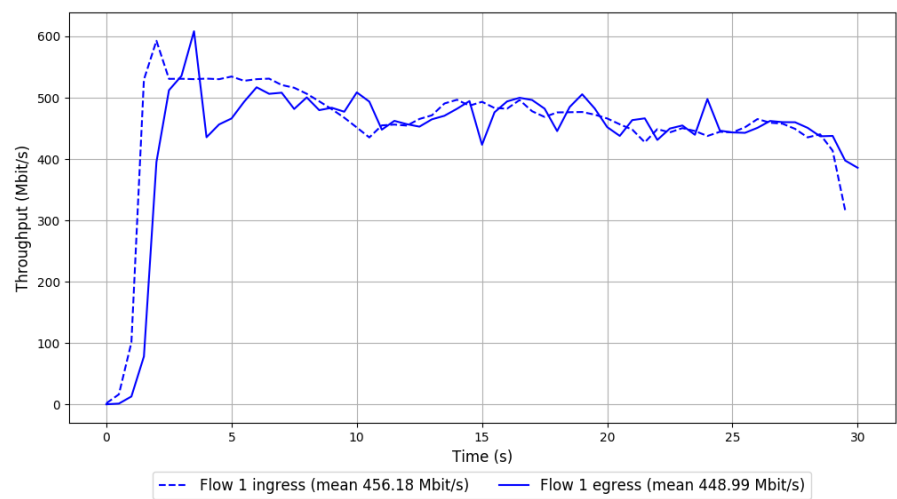
-- Flow 1:

Average throughput: 448.99 Mbit/s

95th percentile per-packet one-way delay: 166.515 ms

Loss rate: 1.58%

Run 5: Report of PCC-Allegro — Data Link



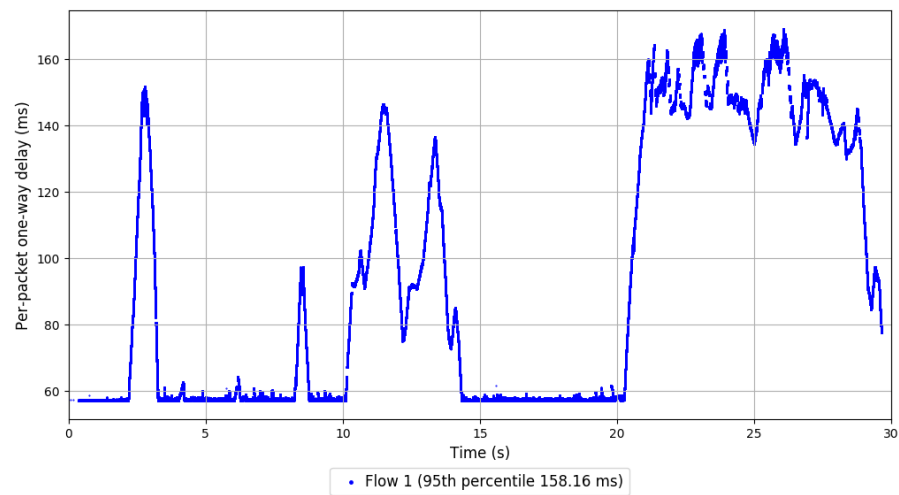
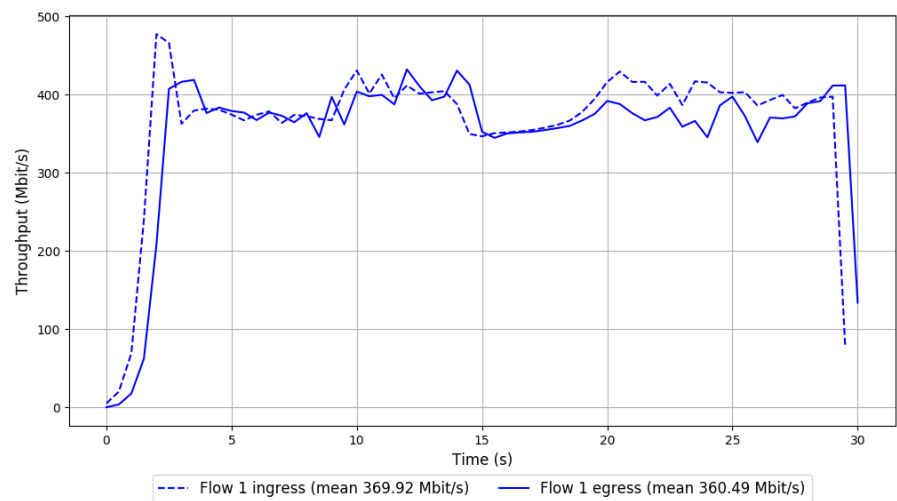


```
Run 1: Statistics of PCC-Expr

Start at: 2019-01-25 11:50:08
End at: 2019-01-25 11:50:38
Local clock offset: 0.121 ms
Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2019-01-25 16:03:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 360.49 Mbit/s
95th percentile per-packet one-way delay: 158.157 ms
Loss rate: 2.55%
-- Flow 1:
Average throughput: 360.49 Mbit/s
95th percentile per-packet one-way delay: 158.157 ms
Loss rate: 2.55%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-01-25 12:21:44

End at: 2019-01-25 12:22:14

Local clock offset: 0.105 ms

Remote clock offset: 0.601 ms

# Below is generated by plot.py at 2019-01-25 16:03:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 332.88 Mbit/s

95th percentile per-packet one-way delay: 156.996 ms

Loss rate: 1.45%

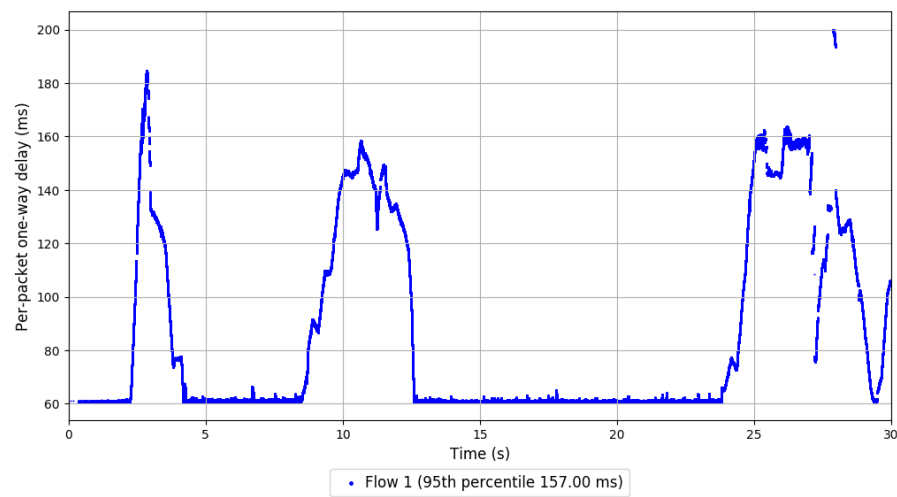
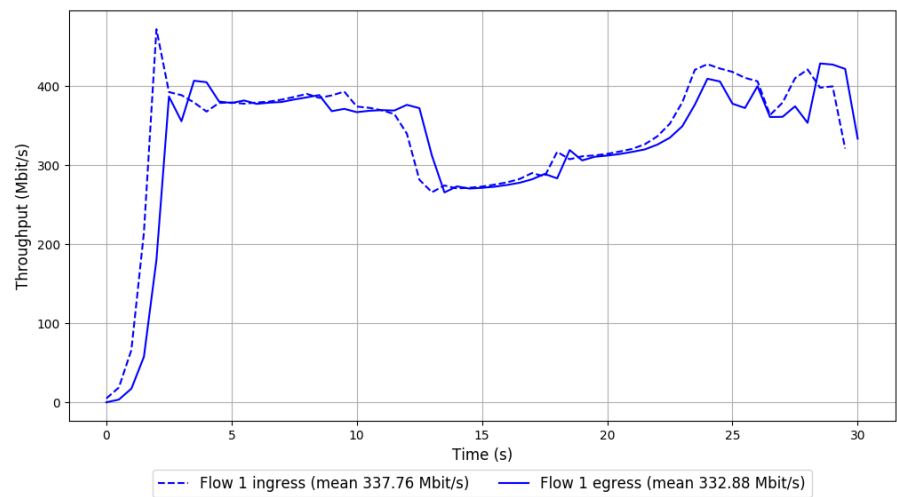
-- Flow 1:

Average throughput: 332.88 Mbit/s

95th percentile per-packet one-way delay: 156.996 ms

Loss rate: 1.45%

Run 2: Report of PCC-Expr — Data Link

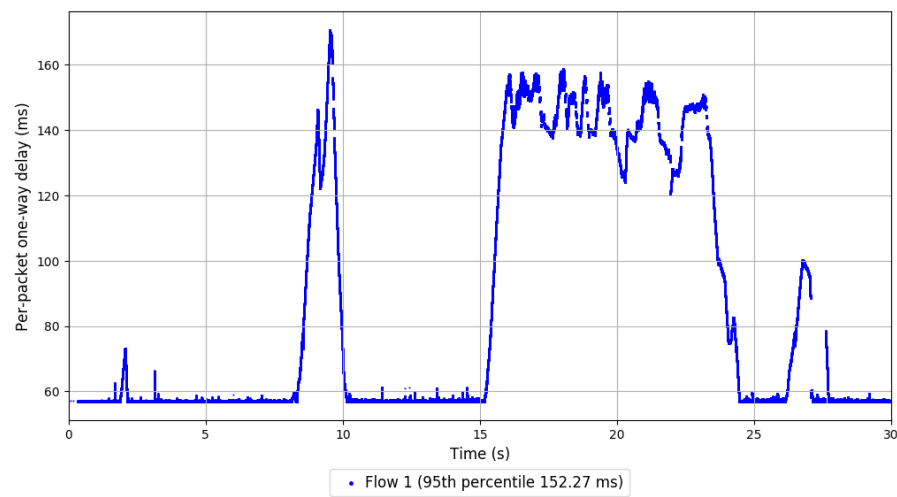
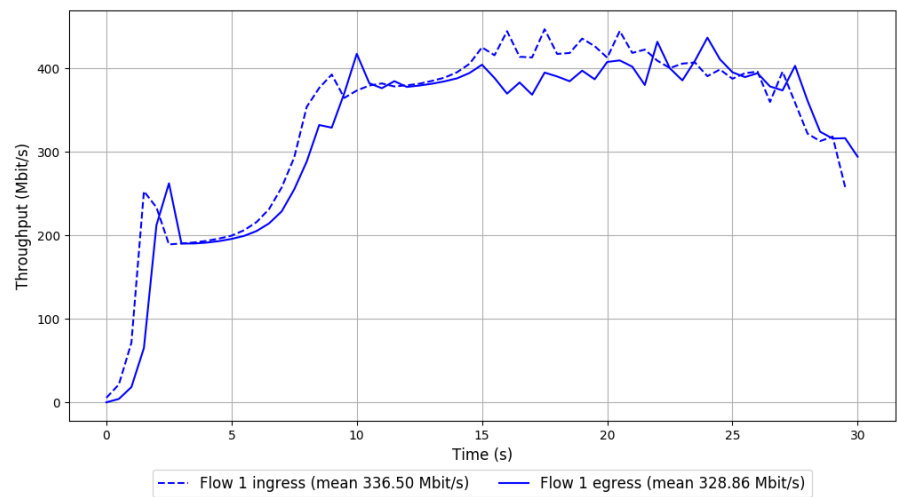


Run 3: Statistics of PCC-Expr

Start at: 2019-01-25 12:52:57  
End at: 2019-01-25 12:53:27  
Local clock offset: -0.091 ms  
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2019-01-25 16:03:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 328.86 Mbit/s  
95th percentile per-packet one-way delay: 152.273 ms  
Loss rate: 2.27%  
-- Flow 1:  
Average throughput: 328.86 Mbit/s  
95th percentile per-packet one-way delay: 152.273 ms  
Loss rate: 2.27%

Run 3: Report of PCC-Expr — Data Link

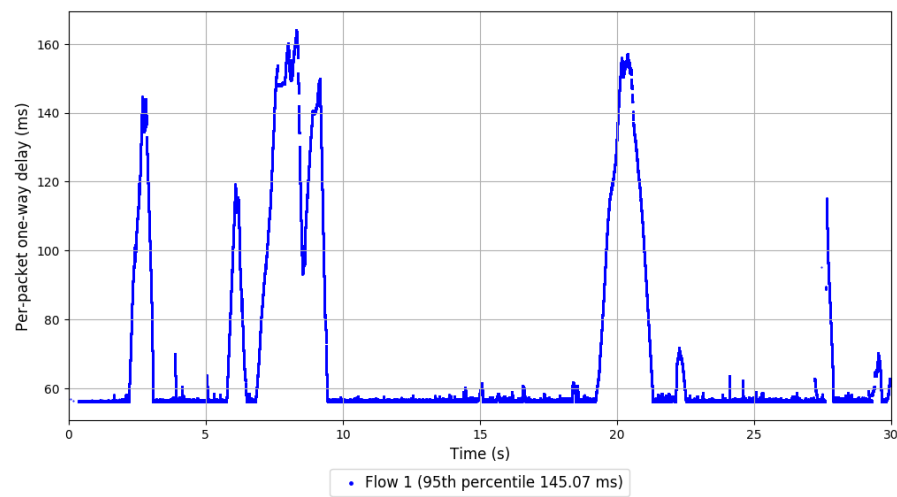
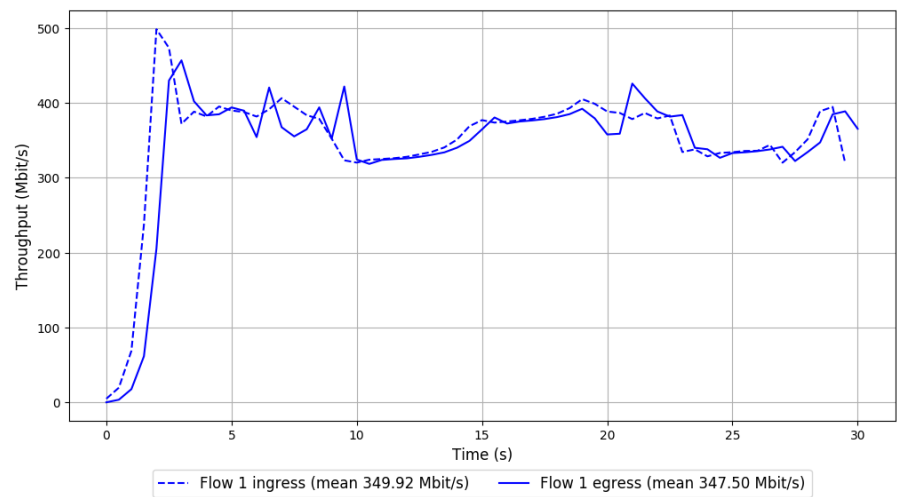


Run 4: Statistics of PCC-Expr

Start at: 2019-01-25 13:24:51  
End at: 2019-01-25 13:25:21  
Local clock offset: 0.122 ms  
Remote clock offset: -0.781 ms

# Below is generated by plot.py at 2019-01-25 16:13:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 347.50 Mbit/s  
95th percentile per-packet one-way delay: 145.074 ms  
Loss rate: 0.69%  
-- Flow 1:  
Average throughput: 347.50 Mbit/s  
95th percentile per-packet one-way delay: 145.074 ms  
Loss rate: 0.69%

Run 4: Report of PCC-Expr — Data Link





Run 5: Statistics of PCC-Expr

Start at: 2019-01-25 13:56:48

End at: 2019-01-25 13:57:18

Local clock offset: -0.174 ms

Remote clock offset: 0.028 ms

# Below is generated by plot.py at 2019-01-25 16:13:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 336.66 Mbit/s

95th percentile per-packet one-way delay: 94.439 ms

Loss rate: 0.18%

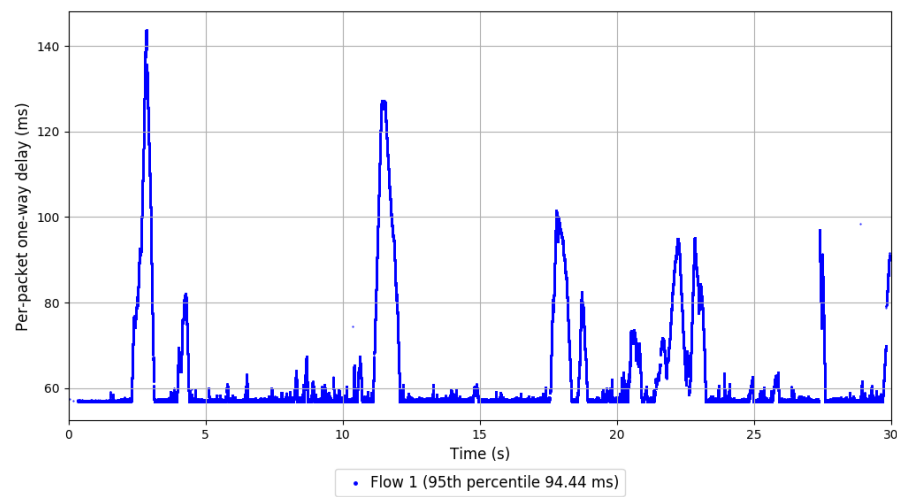
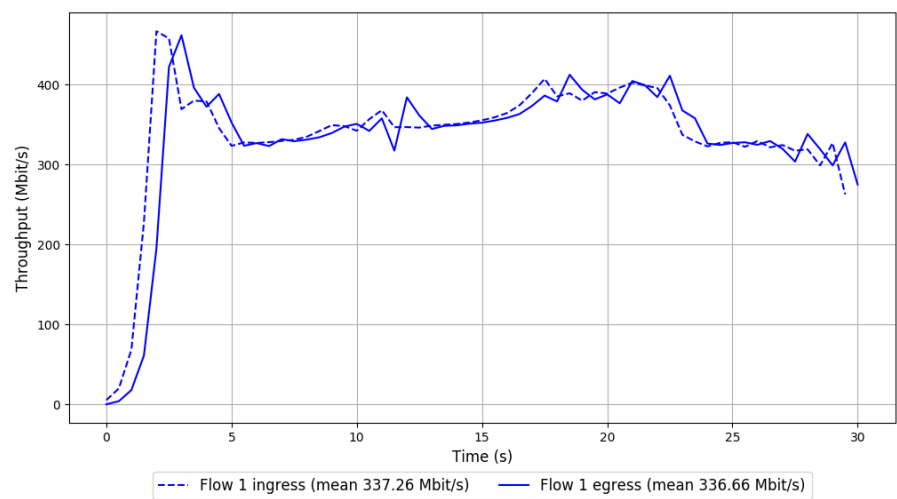
-- Flow 1:

Average throughput: 336.66 Mbit/s

95th percentile per-packet one-way delay: 94.439 ms

Loss rate: 0.18%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

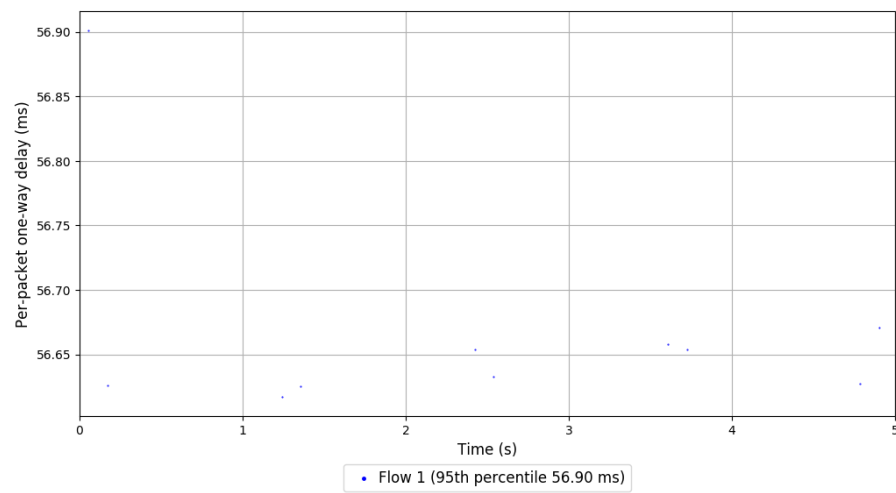
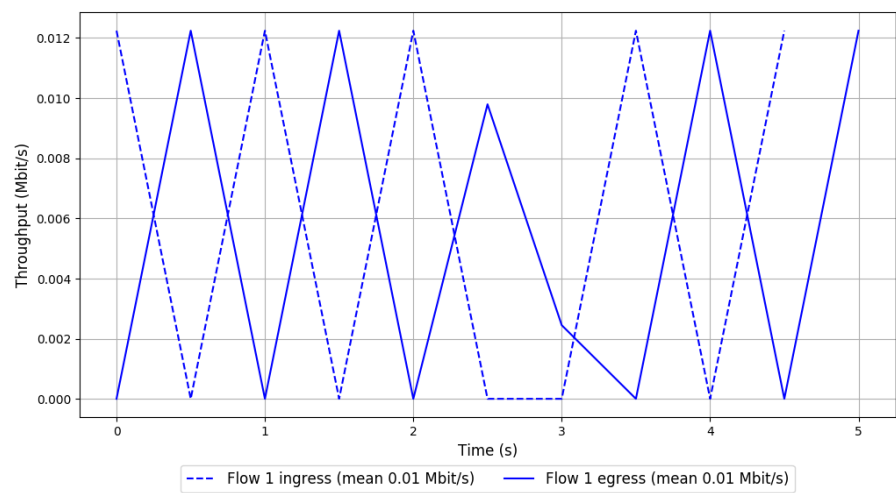
Start at: 2019-01-25 11:34:26

End at: 2019-01-25 11:34:56

Local clock offset: -0.17 ms

Remote clock offset: -0.811 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-01-25 12:05:29

End at: 2019-01-25 12:05:59

Local clock offset: -0.207 ms

Remote clock offset: 1.359 ms

# Below is generated by plot.py at 2019-01-25 16:13:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 58.69 Mbit/s

95th percentile per-packet one-way delay: 62.152 ms

Loss rate: 0.02%

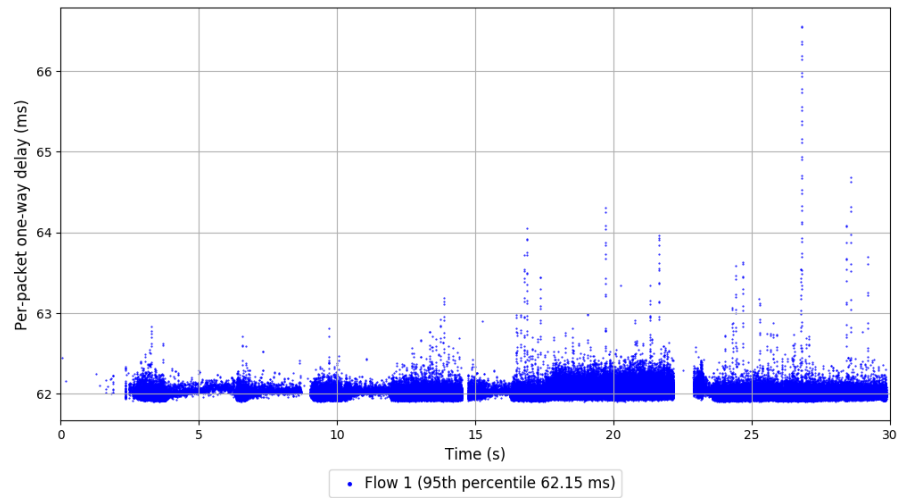
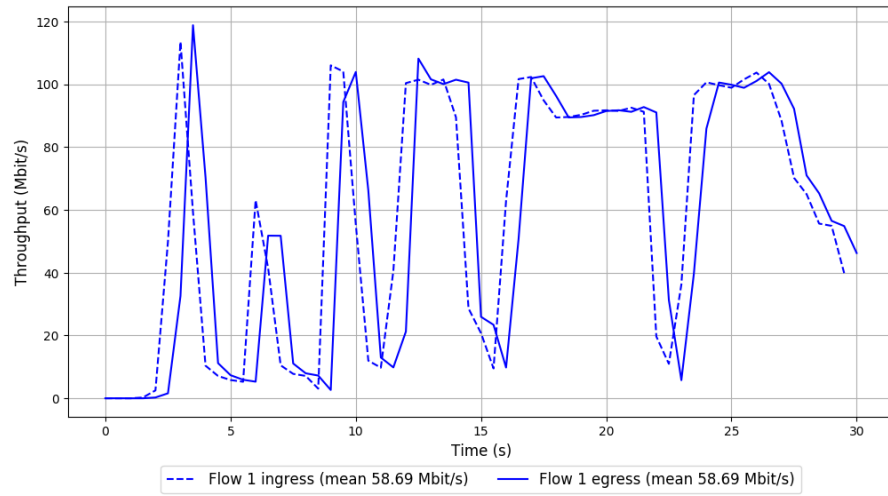
-- Flow 1:

Average throughput: 58.69 Mbit/s

95th percentile per-packet one-way delay: 62.152 ms

Loss rate: 0.02%

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

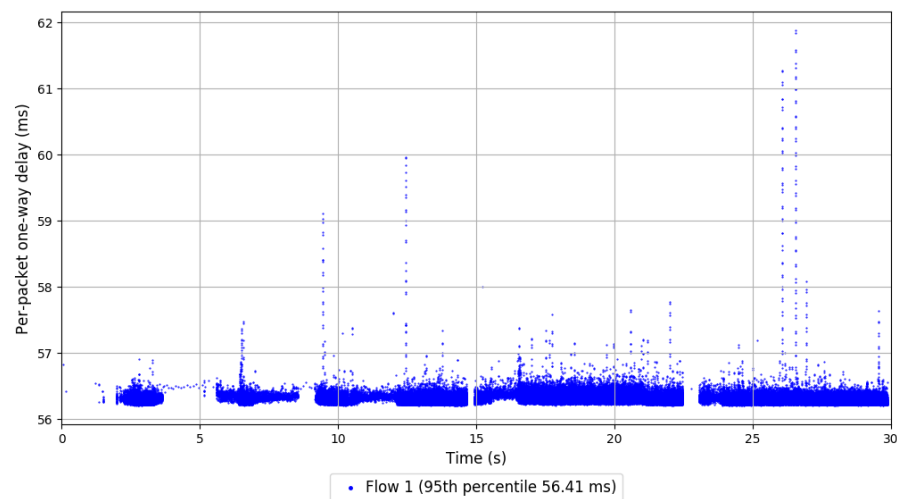
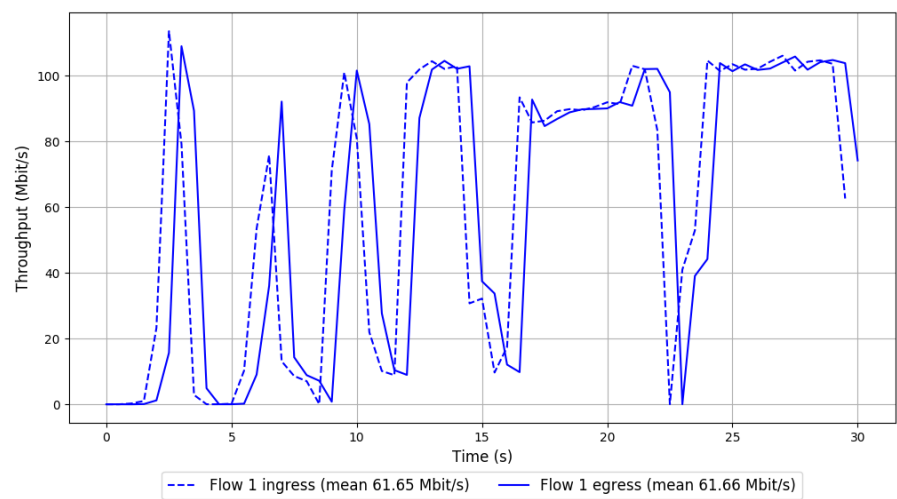


Run 3: Statistics of QUIC Cubic

Start at: 2019-01-25 12:36:55  
End at: 2019-01-25 12:37:25  
Local clock offset: -0.024 ms  
Remote clock offset: -0.693 ms

# Below is generated by plot.py at 2019-01-25 16:13:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 61.66 Mbit/s  
95th percentile per-packet one-way delay: 56.415 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 61.66 Mbit/s  
95th percentile per-packet one-way delay: 56.415 ms  
Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link





Run 4: Statistics of QUIC Cubic

Start at: 2019-01-25 13:08:06

End at: 2019-01-25 13:08:36

Local clock offset: -0.013 ms

Remote clock offset: -0.601 ms

# Below is generated by plot.py at 2019-01-25 16:13:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 59.26 Mbit/s

95th percentile per-packet one-way delay: 56.496 ms

Loss rate: 0.00%

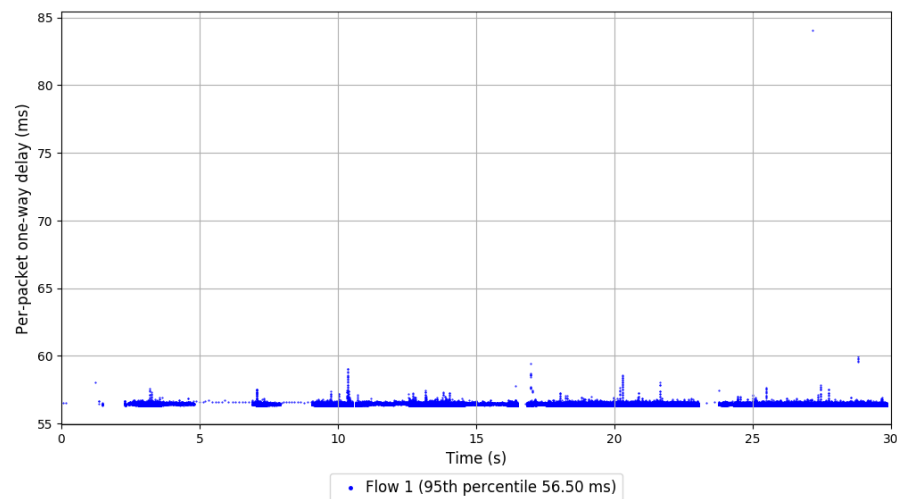
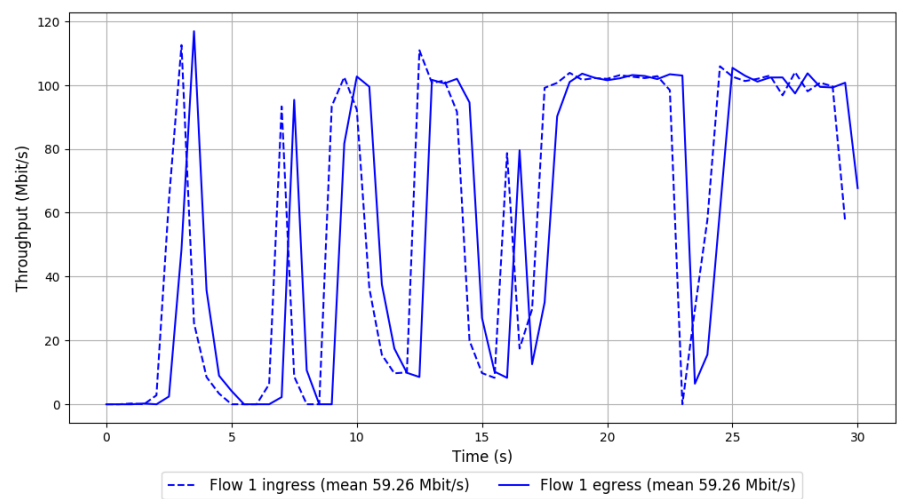
-- Flow 1:

Average throughput: 59.26 Mbit/s

95th percentile per-packet one-way delay: 56.496 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-01-25 13:40:36

End at: 2019-01-25 13:41:06

Local clock offset: 0.16 ms

Remote clock offset: 1.466 ms

# Below is generated by plot.py at 2019-01-25 16:13:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 61.87 Mbit/s

95th percentile per-packet one-way delay: 58.443 ms

Loss rate: 0.00%

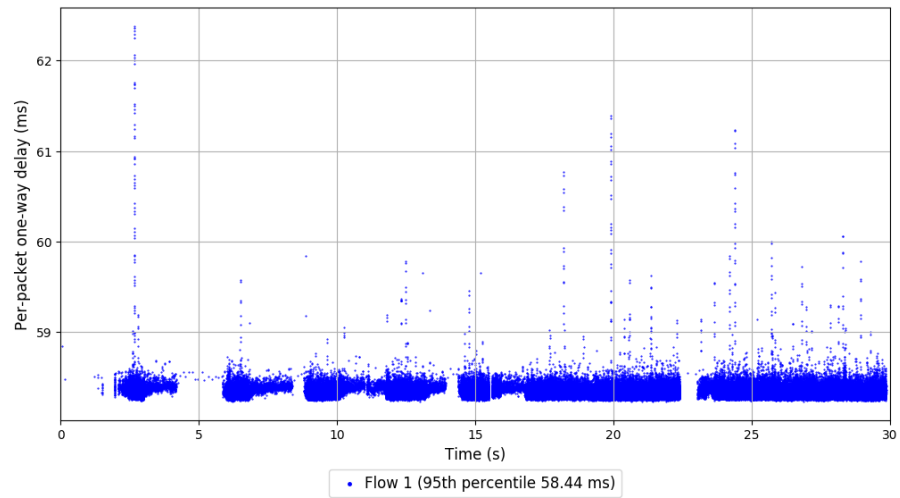
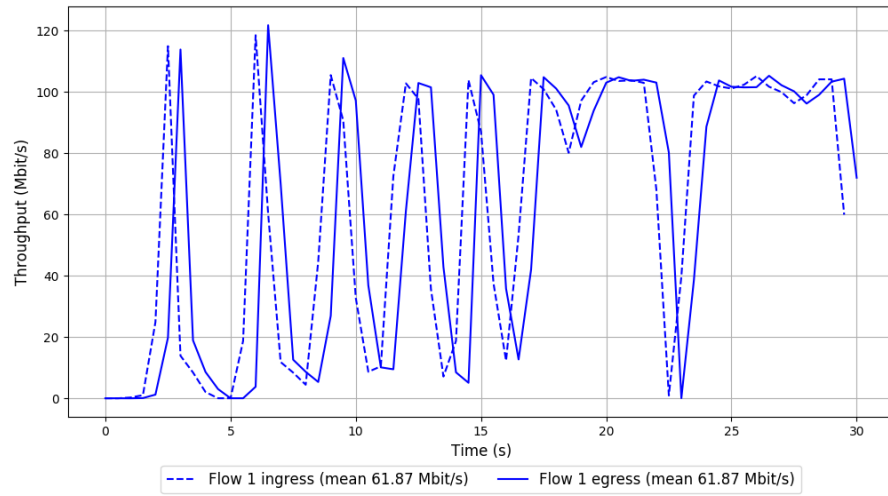
-- Flow 1:

Average throughput: 61.87 Mbit/s

95th percentile per-packet one-way delay: 58.443 ms

Loss rate: 0.00%

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

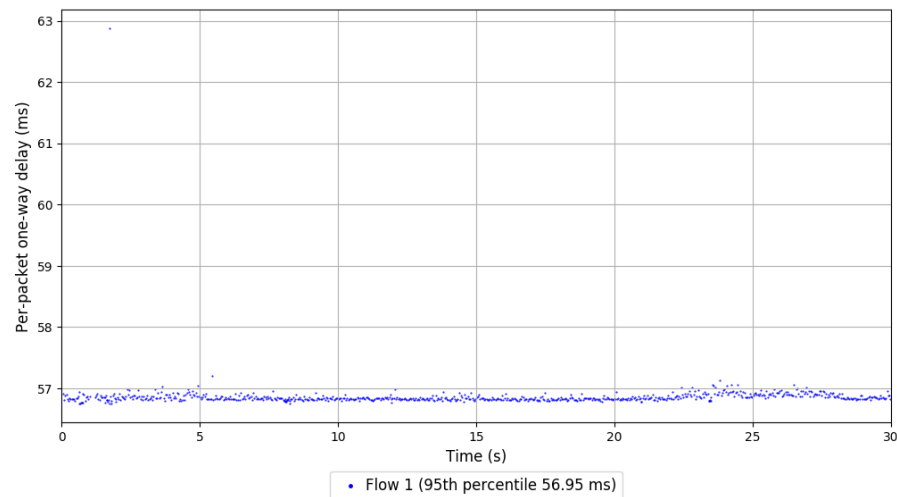
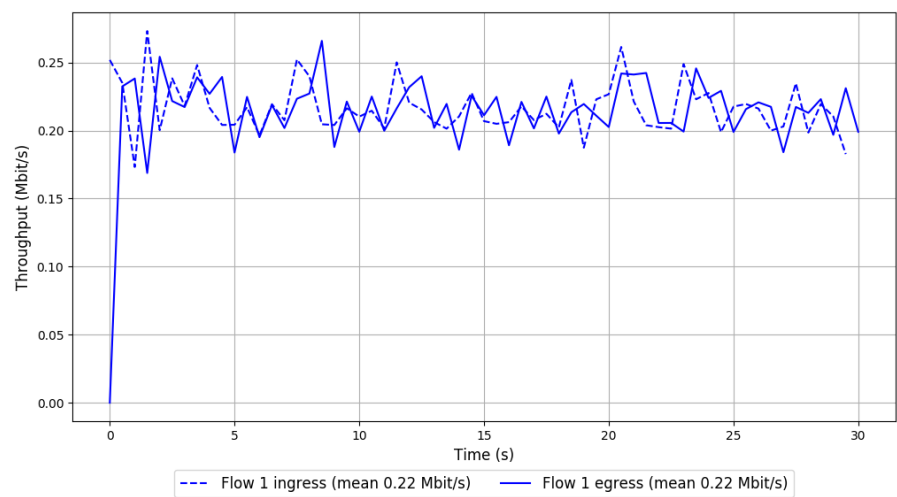


Run 1: Statistics of SCReAM

Start at: 2019-01-25 11:35:35  
End at: 2019-01-25 11:36:05  
Local clock offset: 0.212 ms  
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2019-01-25 16:13:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 56.950 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 56.950 ms  
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

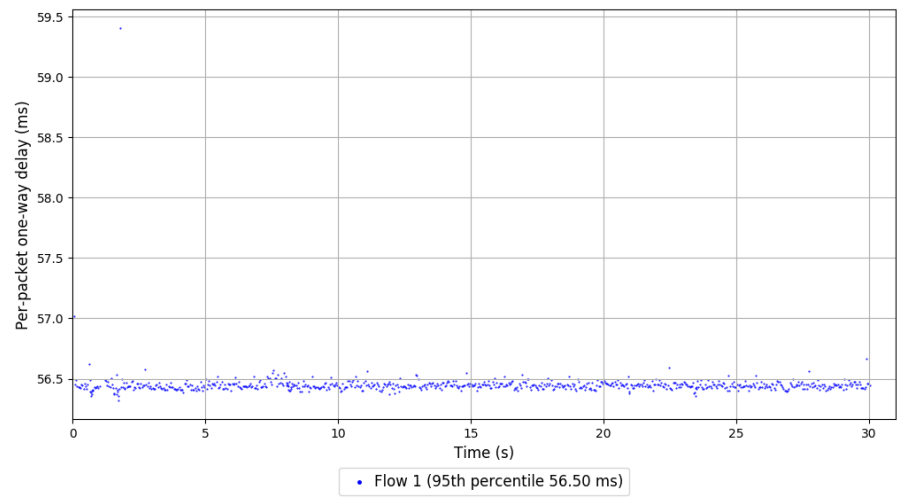
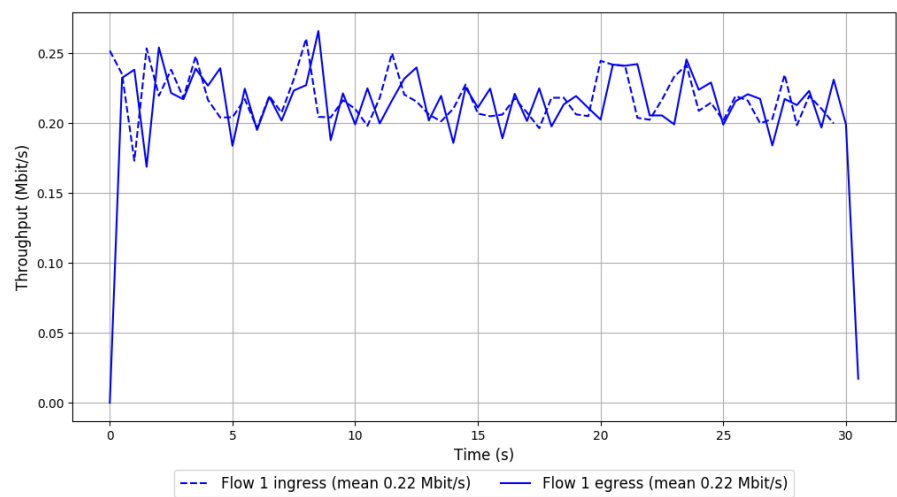


Run 2: Statistics of SCReAM

Start at: 2019-01-25 12:06:41  
End at: 2019-01-25 12:07:11  
Local clock offset: -0.042 ms  
Remote clock offset: -0.707 ms

# Below is generated by plot.py at 2019-01-25 16:13:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 56.501 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 56.501 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



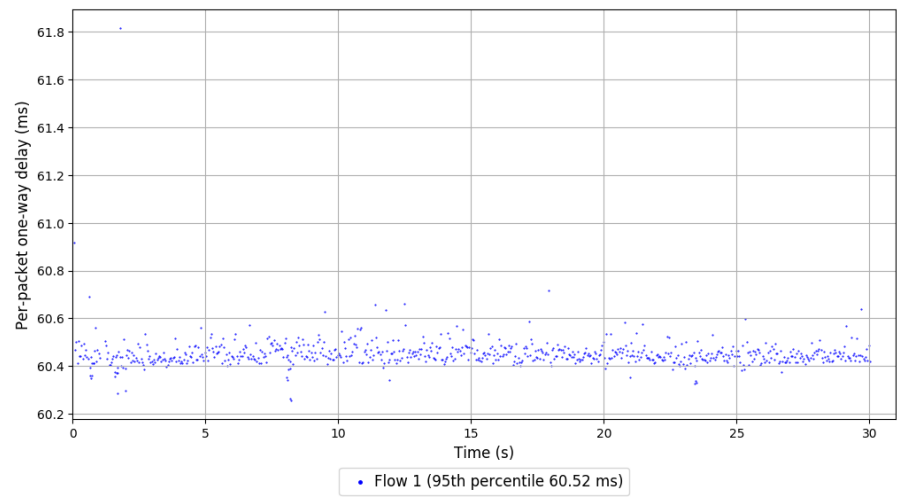
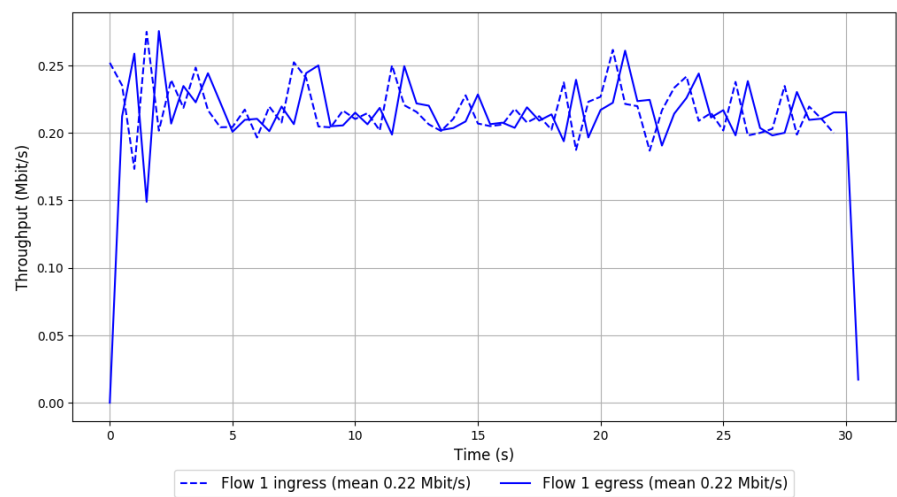


Run 3: Statistics of SCReAM

Start at: 2019-01-25 12:38:07  
End at: 2019-01-25 12:38:37  
Local clock offset: -0.403 ms  
Remote clock offset: -0.182 ms

# Below is generated by plot.py at 2019-01-25 16:13:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 60.523 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 60.523 ms  
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

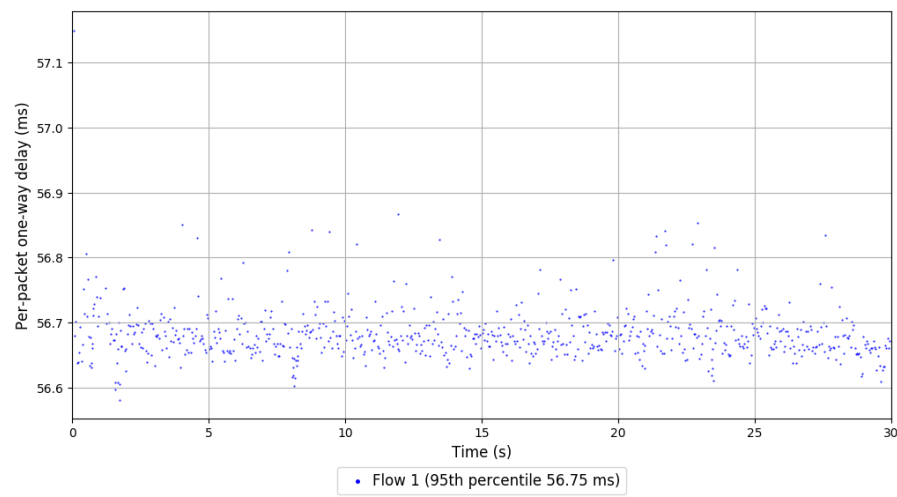
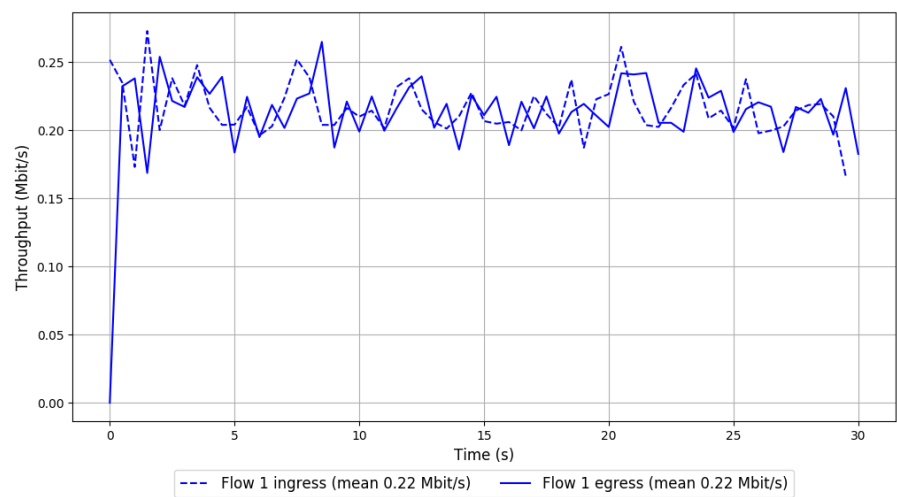


Run 4: Statistics of SCReAM

Start at: 2019-01-25 13:09:19  
End at: 2019-01-25 13:09:49  
Local clock offset: -0.249 ms  
Remote clock offset: -0.742 ms

# Below is generated by plot.py at 2019-01-25 16:13:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 56.751 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 56.751 ms  
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

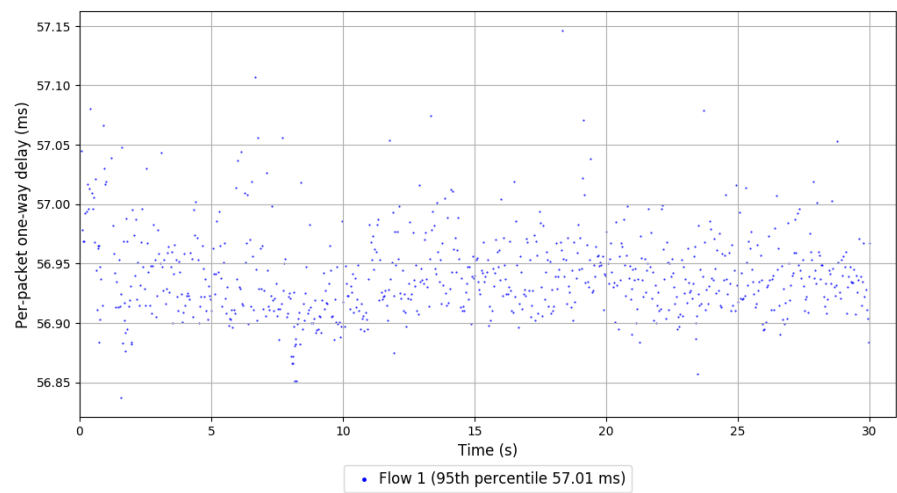
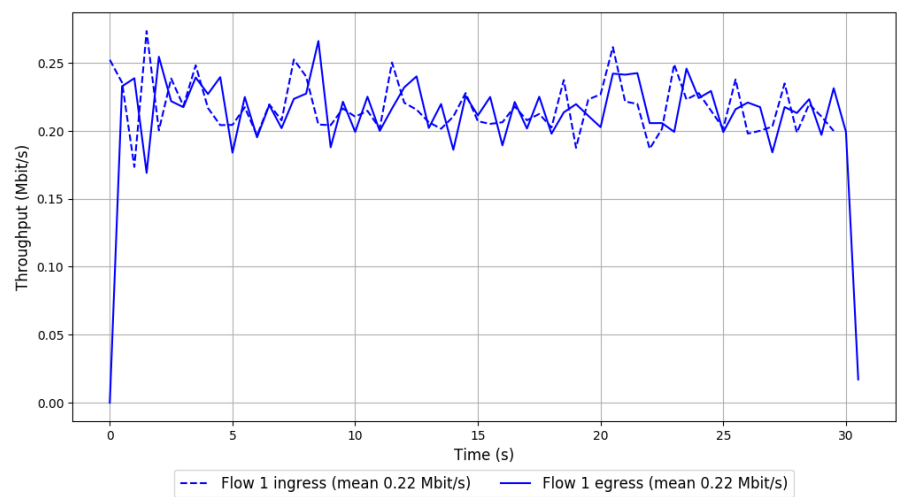


Run 5: Statistics of SCReAM

Start at: 2019-01-25 13:41:48  
End at: 2019-01-25 13:42:18  
Local clock offset: 0.368 ms  
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2019-01-25 16:13:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 57.009 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 57.009 ms  
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

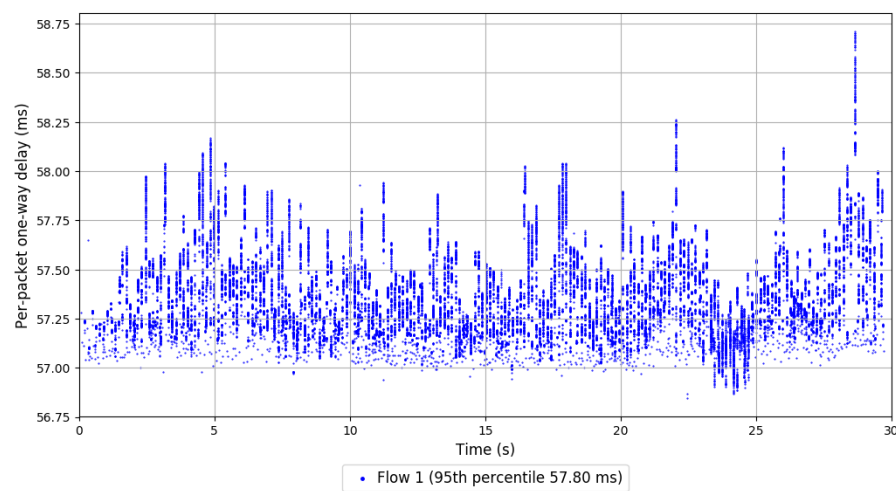
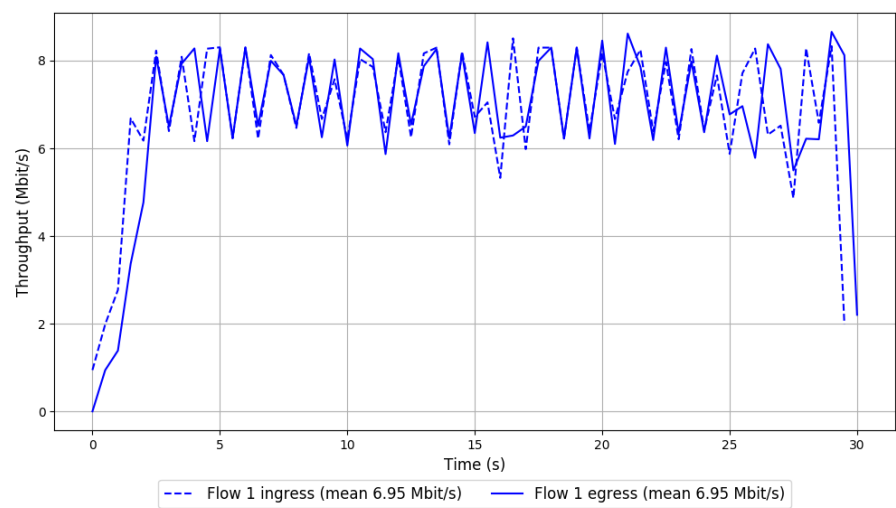


Run 1: Statistics of Sprout

Start at: 2019-01-25 11:53:33  
End at: 2019-01-25 11:54:03  
Local clock offset: -0.088 ms  
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2019-01-25 16:13:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 6.95 Mbit/s  
95th percentile per-packet one-way delay: 57.804 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 6.95 Mbit/s  
95th percentile per-packet one-way delay: 57.804 ms  
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



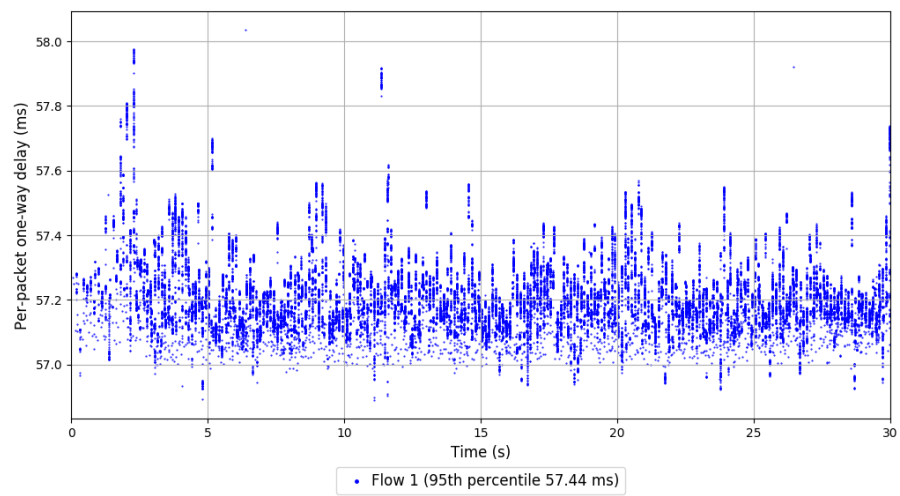
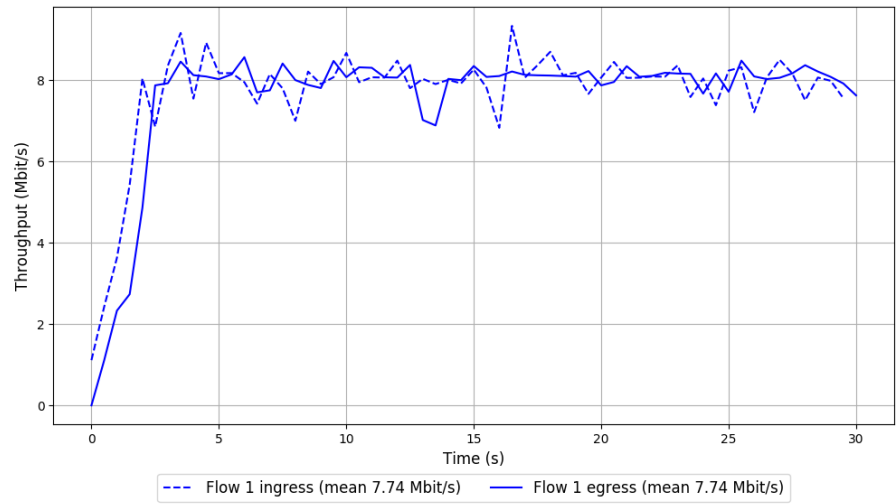


Run 2: Statistics of Sprout

Start at: 2019-01-25 12:25:07  
End at: 2019-01-25 12:25:37  
Local clock offset: -0.639 ms  
Remote clock offset: -0.773 ms

# Below is generated by plot.py at 2019-01-25 16:13:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.74 Mbit/s  
95th percentile per-packet one-way delay: 57.444 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 7.74 Mbit/s  
95th percentile per-packet one-way delay: 57.444 ms  
Loss rate: 0.00%

## Run 2: Report of Sprout — Data Link

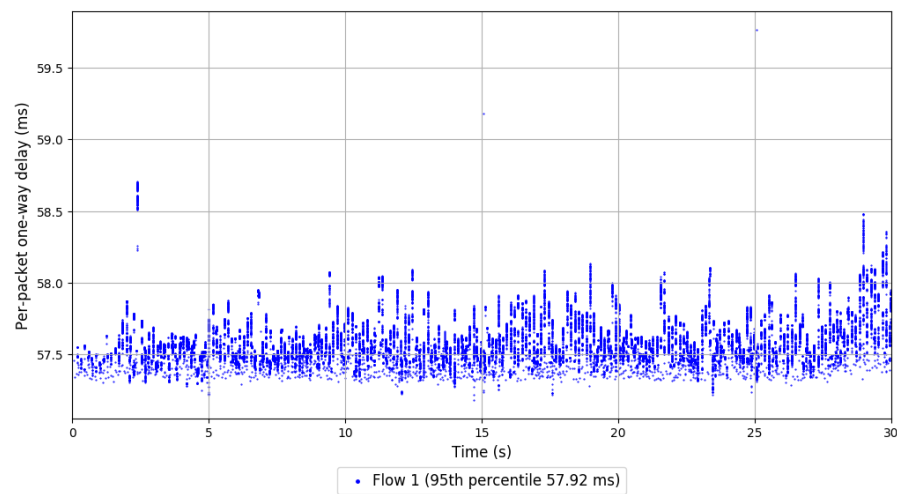
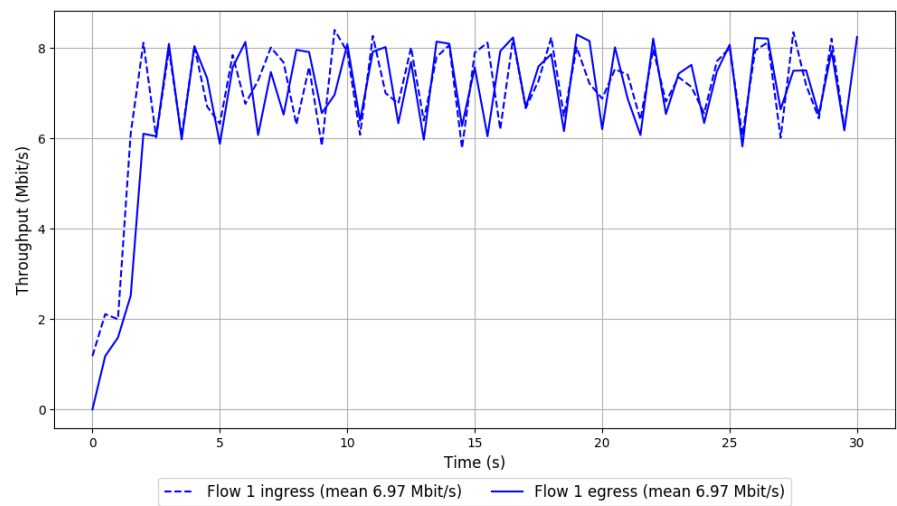


Run 3: Statistics of Sprout

Start at: 2019-01-25 12:56:18  
End at: 2019-01-25 12:56:48  
Local clock offset: -0.297 ms  
Remote clock offset: -0.203 ms

# Below is generated by plot.py at 2019-01-25 16:13:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 6.97 Mbit/s  
95th percentile per-packet one-way delay: 57.924 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 6.97 Mbit/s  
95th percentile per-packet one-way delay: 57.924 ms  
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

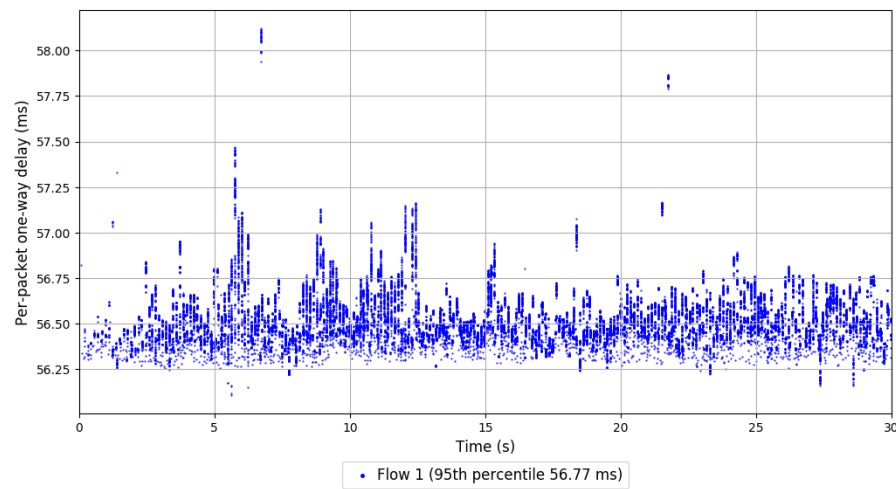
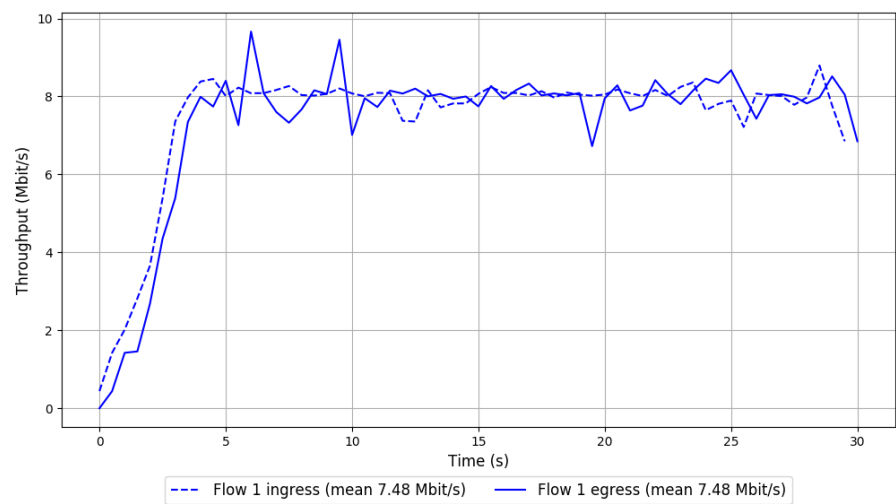


Run 4: Statistics of Sprout

Start at: 2019-01-25 13:28:23  
End at: 2019-01-25 13:28:53  
Local clock offset: 0.137 ms  
Remote clock offset: -0.765 ms

# Below is generated by plot.py at 2019-01-25 16:13:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.48 Mbit/s  
95th percentile per-packet one-way delay: 56.775 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 7.48 Mbit/s  
95th percentile per-packet one-way delay: 56.775 ms  
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-01-25 14:00:09

End at: 2019-01-25 14:00:39

Local clock offset: 0.364 ms

Remote clock offset: 0.16 ms

# Below is generated by plot.py at 2019-01-25 16:13:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 57.428 ms

Loss rate: 0.00%

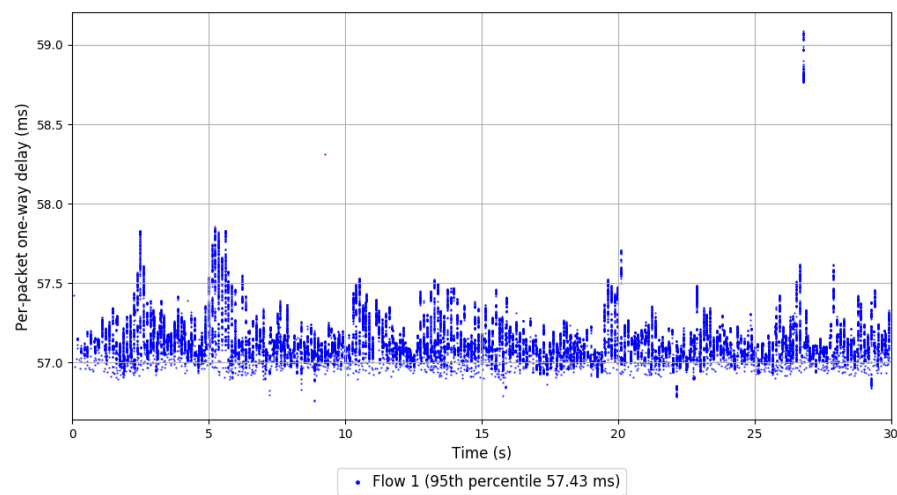
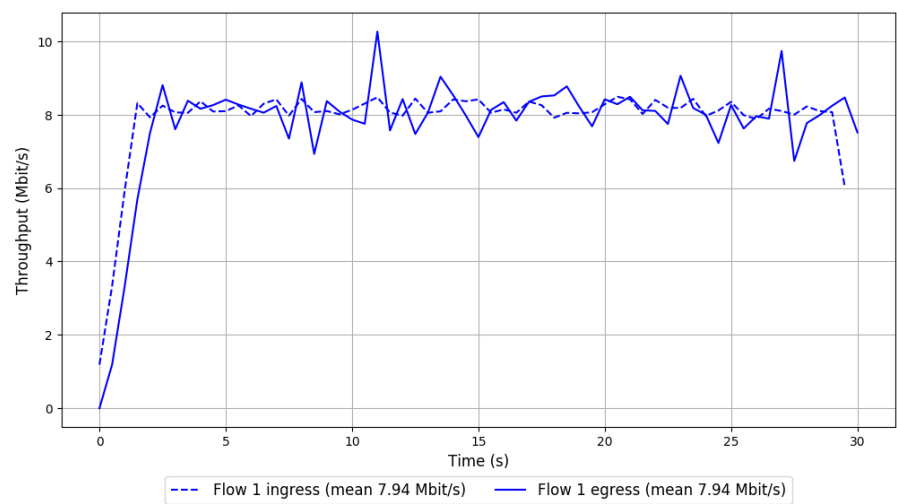
-- Flow 1:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 57.428 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link





Run 1: Statistics of TaoVA-100x

Start at: 2019-01-25 11:43:45

End at: 2019-01-25 11:44:15

Local clock offset: 0.375 ms

Remote clock offset: -0.69 ms

# Below is generated by plot.py at 2019-01-25 16:13:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 228.14 Mbit/s

95th percentile per-packet one-way delay: 56.310 ms

Loss rate: 0.00%

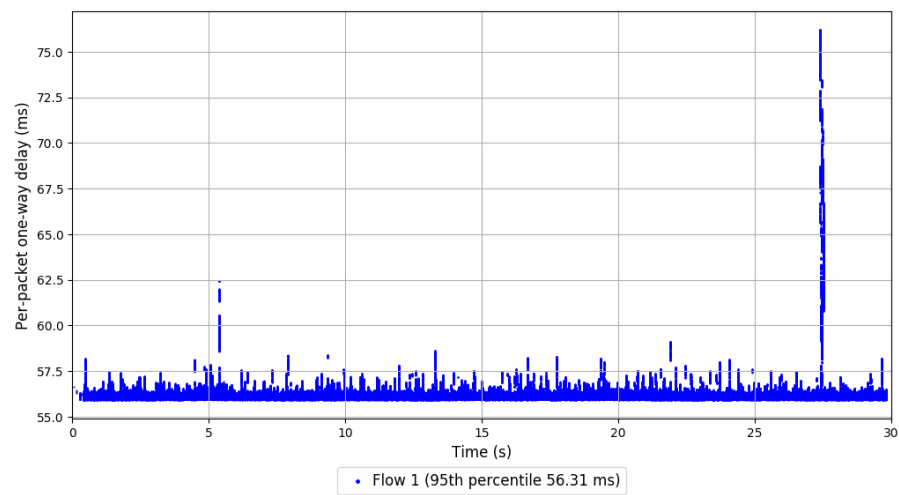
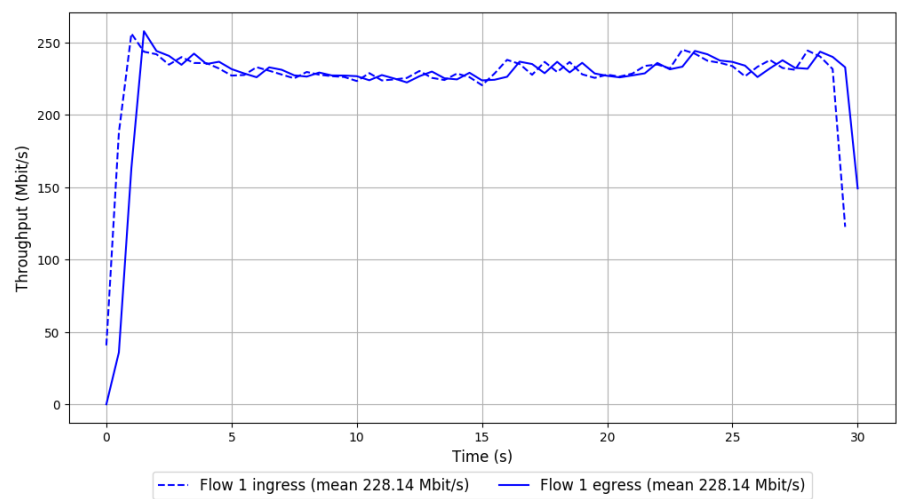
-- Flow 1:

Average throughput: 228.14 Mbit/s

95th percentile per-packet one-way delay: 56.310 ms

Loss rate: 0.00%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-01-25 12:15:19

End at: 2019-01-25 12:15:49

Local clock offset: 0.028 ms

Remote clock offset: -0.75 ms

# Below is generated by plot.py at 2019-01-25 16:13:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 233.17 Mbit/s

95th percentile per-packet one-way delay: 56.530 ms

Loss rate: 0.00%

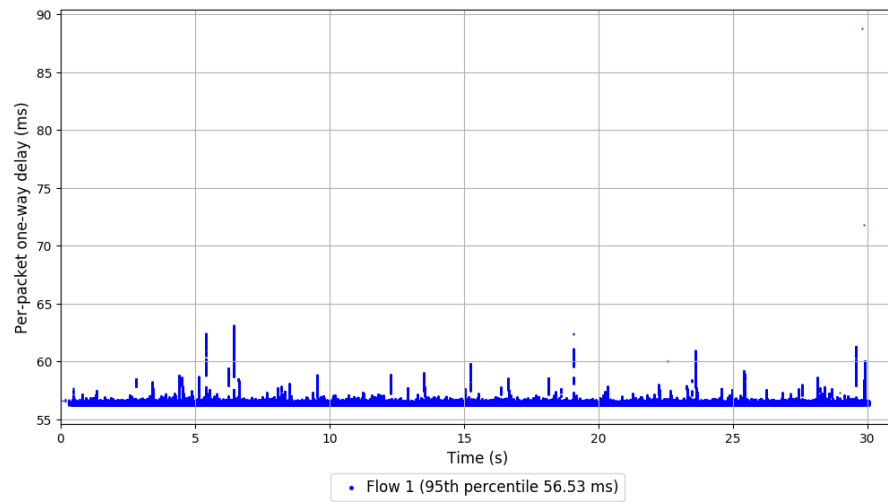
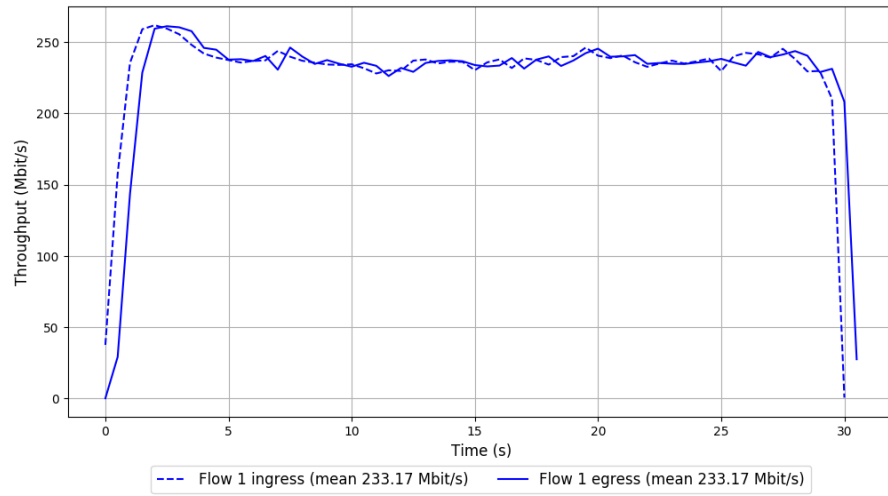
-- Flow 1:

Average throughput: 233.17 Mbit/s

95th percentile per-packet one-way delay: 56.530 ms

Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-01-25 12:46:39

End at: 2019-01-25 12:47:09

Local clock offset: -0.414 ms

Remote clock offset: 0.596 ms

# Below is generated by plot.py at 2019-01-25 16:13:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 232.29 Mbit/s

95th percentile per-packet one-way delay: 58.357 ms

Loss rate: 0.00%

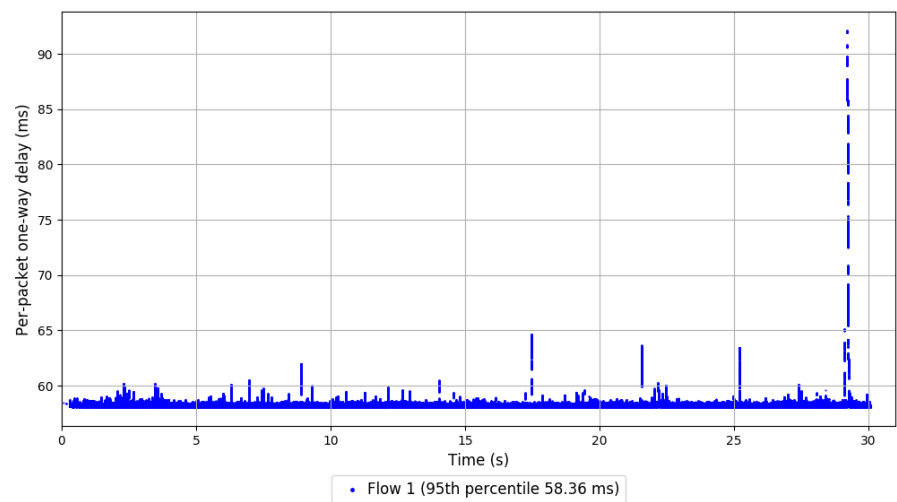
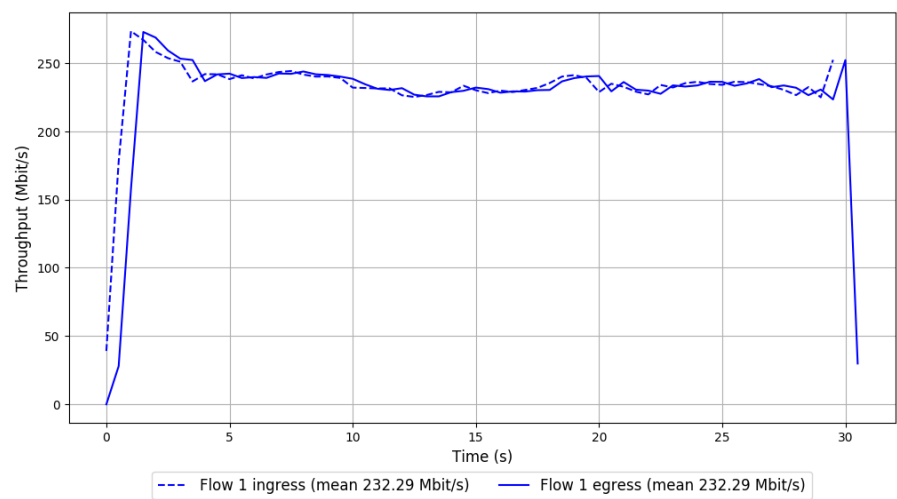
-- Flow 1:

Average throughput: 232.29 Mbit/s

95th percentile per-packet one-way delay: 58.357 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-01-25 13:17:55

End at: 2019-01-25 13:18:25

Local clock offset: 0.336 ms

Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2019-01-25 16:13:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 226.70 Mbit/s

95th percentile per-packet one-way delay: 57.131 ms

Loss rate: 0.00%

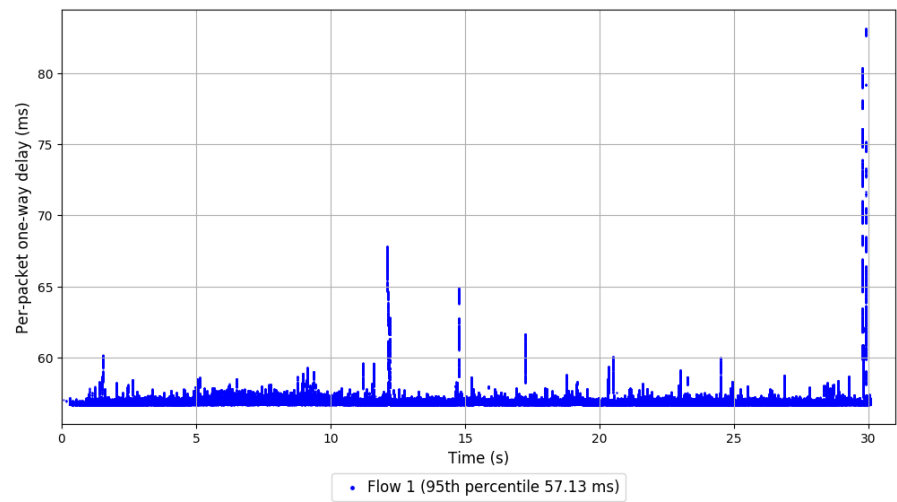
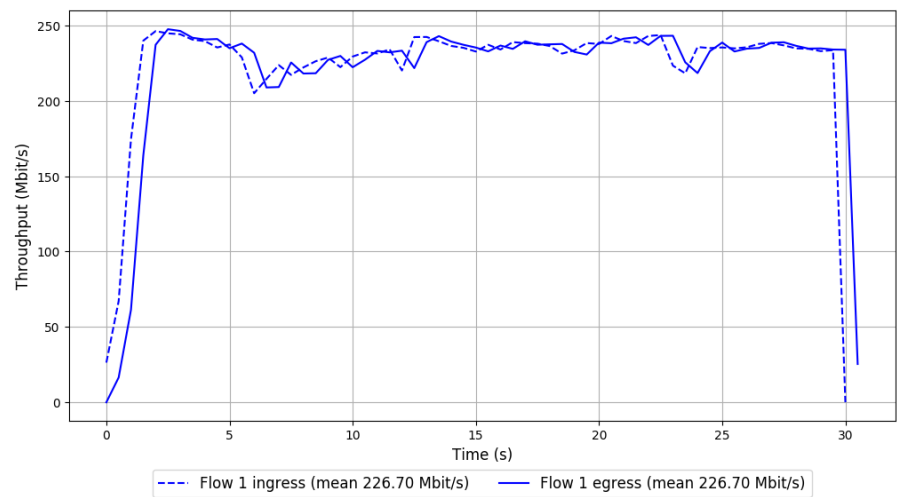
-- Flow 1:

Average throughput: 226.70 Mbit/s

95th percentile per-packet one-way delay: 57.131 ms

Loss rate: 0.00%

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





Run 5: Statistics of TaoVA-100x

Start at: 2019-01-25 13:50:24

End at: 2019-01-25 13:50:54

Local clock offset: -0.195 ms

Remote clock offset: 0.647 ms

# Below is generated by plot.py at 2019-01-25 16:13:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 234.15 Mbit/s

95th percentile per-packet one-way delay: 57.948 ms

Loss rate: 0.00%

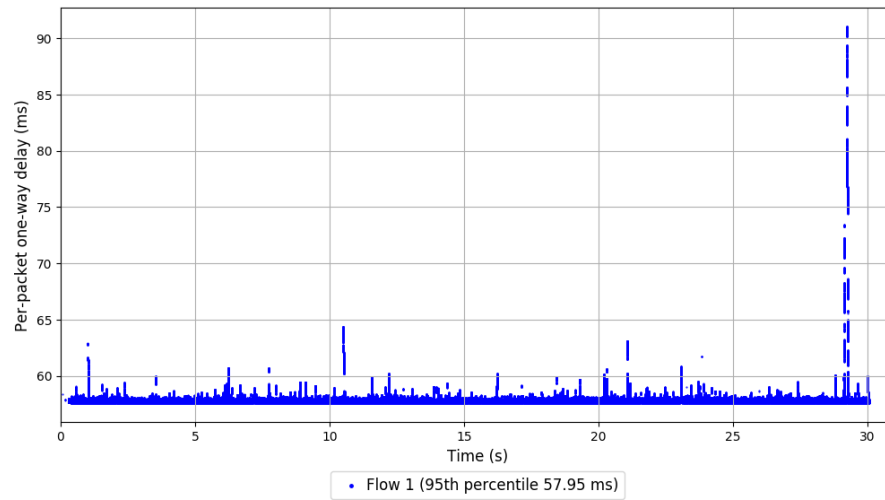
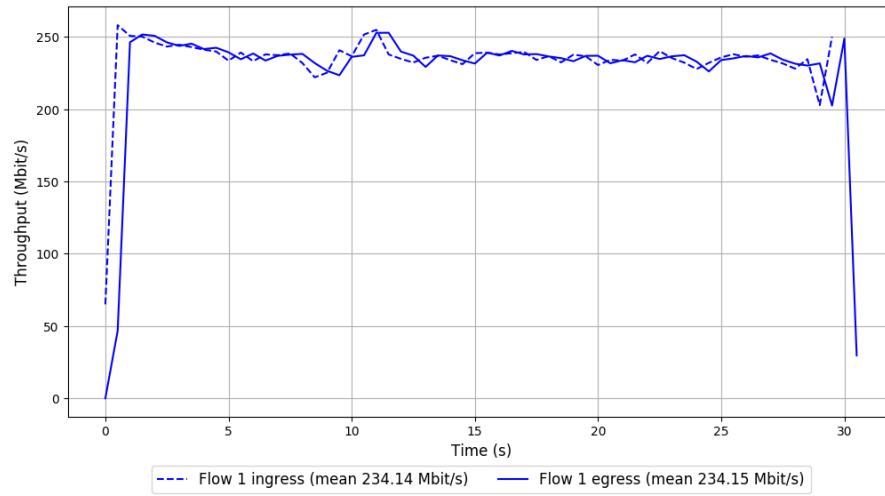
-- Flow 1:

Average throughput: 234.15 Mbit/s

95th percentile per-packet one-way delay: 57.948 ms

Loss rate: 0.00%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-01-25 11:47:00

End at: 2019-01-25 11:47:30

Local clock offset: 0.152 ms

Remote clock offset: 0.468 ms

# Below is generated by plot.py at 2019-01-25 16:13:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 470.51 Mbit/s

95th percentile per-packet one-way delay: 58.190 ms

Loss rate: 0.00%

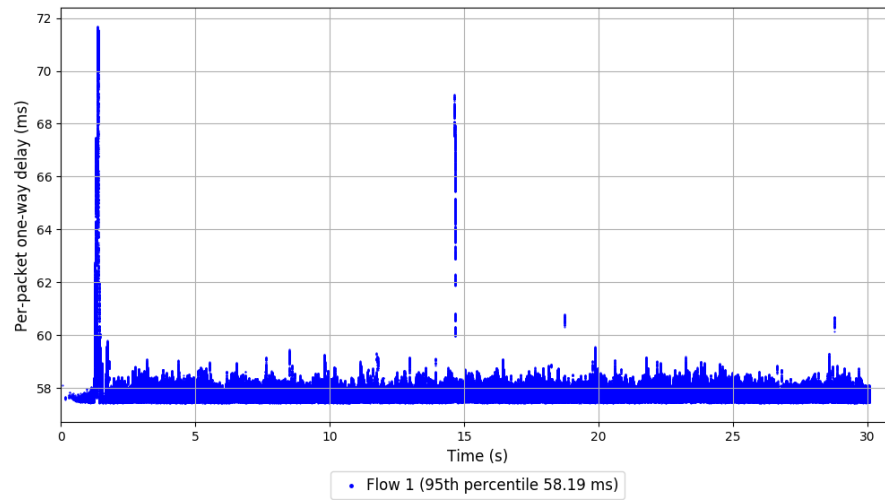
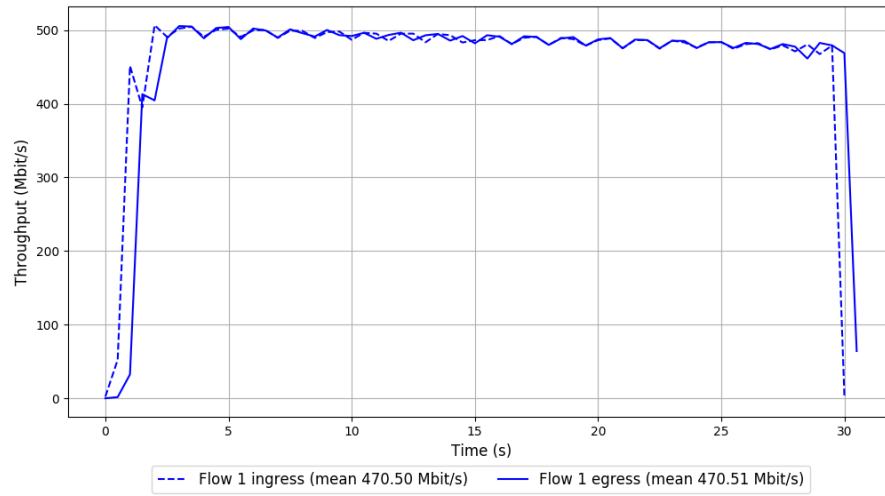
-- Flow 1:

Average throughput: 470.51 Mbit/s

95th percentile per-packet one-way delay: 58.190 ms

Loss rate: 0.00%

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

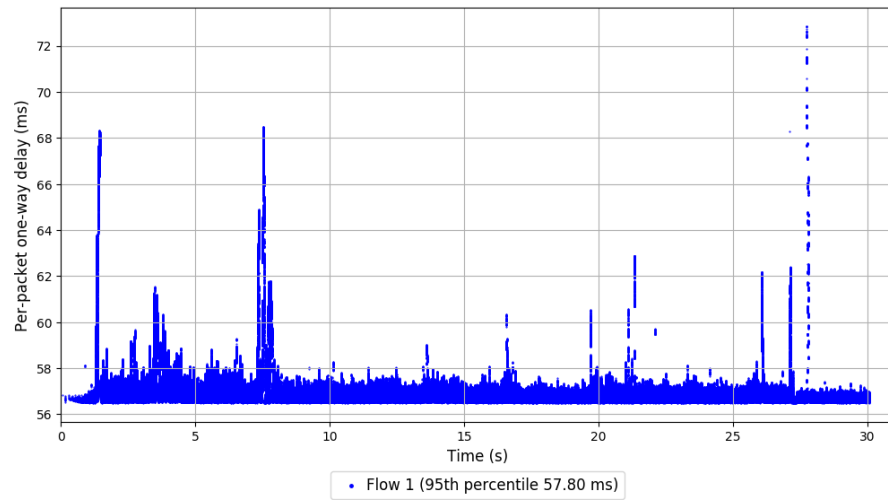
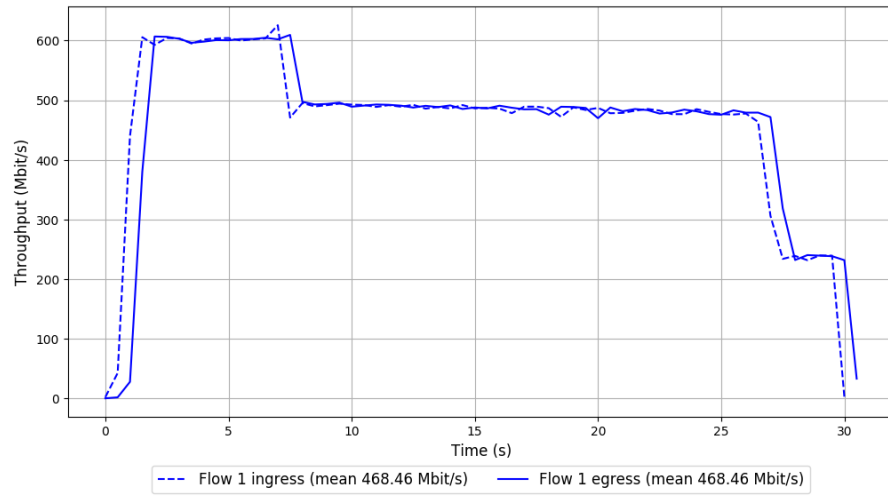


Run 2: Statistics of TCP Vegas

Start at: 2019-01-25 12:18:35  
End at: 2019-01-25 12:19:05  
Local clock offset: -0.393 ms  
Remote clock offset: -0.799 ms

# Below is generated by plot.py at 2019-01-25 16:21:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 468.46 Mbit/s  
95th percentile per-packet one-way delay: 57.795 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 468.46 Mbit/s  
95th percentile per-packet one-way delay: 57.795 ms  
Loss rate: 0.00%

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

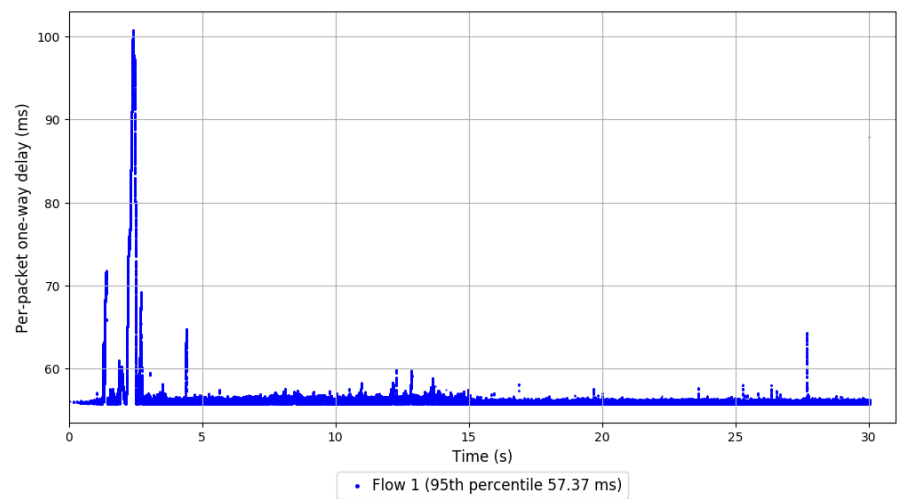
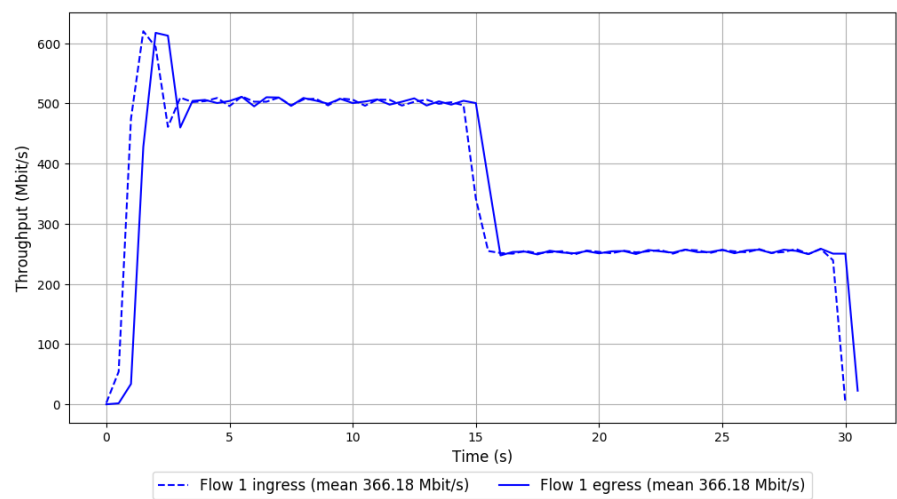


Run 3: Statistics of TCP Vegas

Start at: 2019-01-25 12:49:53  
End at: 2019-01-25 12:50:23  
Local clock offset: 0.281 ms  
Remote clock offset: -0.835 ms

# Below is generated by plot.py at 2019-01-25 16:21:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 366.18 Mbit/s  
95th percentile per-packet one-way delay: 57.368 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 366.18 Mbit/s  
95th percentile per-packet one-way delay: 57.368 ms  
Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



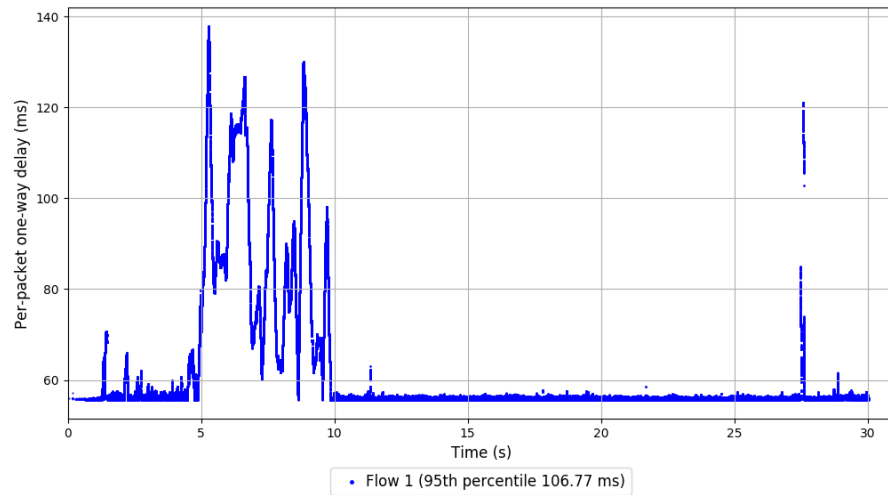
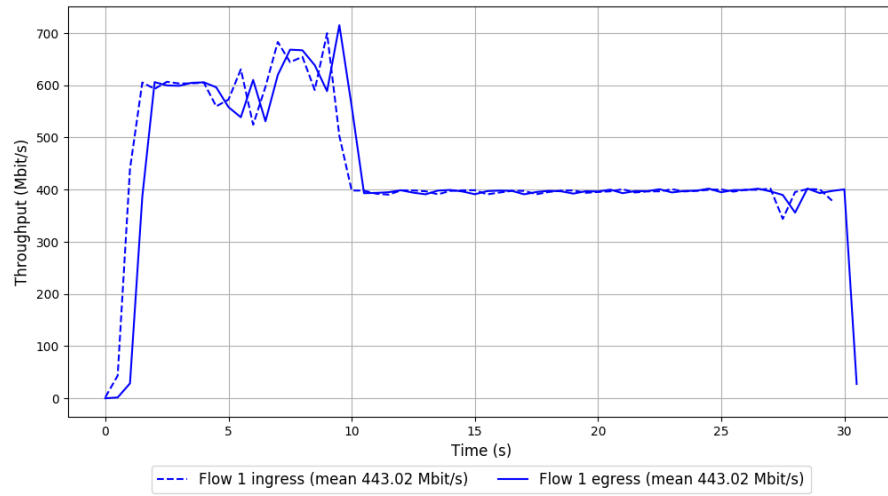


Run 4: Statistics of TCP Vegas

Start at: 2019-01-25 13:21:31  
End at: 2019-01-25 13:22:01  
Local clock offset: 0.375 ms  
Remote clock offset: -0.664 ms

# Below is generated by plot.py at 2019-01-25 16:21:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 443.02 Mbit/s  
95th percentile per-packet one-way delay: 106.766 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 443.02 Mbit/s  
95th percentile per-packet one-way delay: 106.766 ms  
Loss rate: 0.00%

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



Run 5: Statistics of TCP Vegas

Start at: 2019-01-25 13:53:41

End at: 2019-01-25 13:54:11

Local clock offset: 0.255 ms

Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2019-01-25 16:21:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 471.11 Mbit/s

95th percentile per-packet one-way delay: 60.629 ms

Loss rate: 0.00%

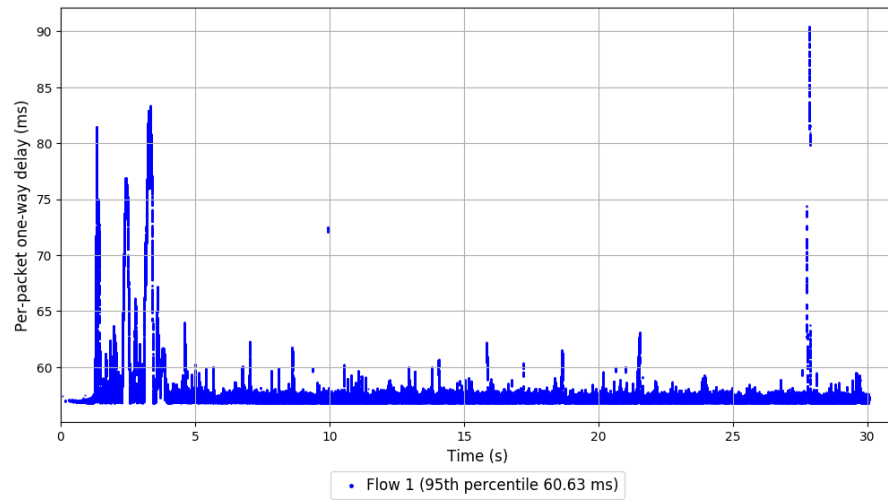
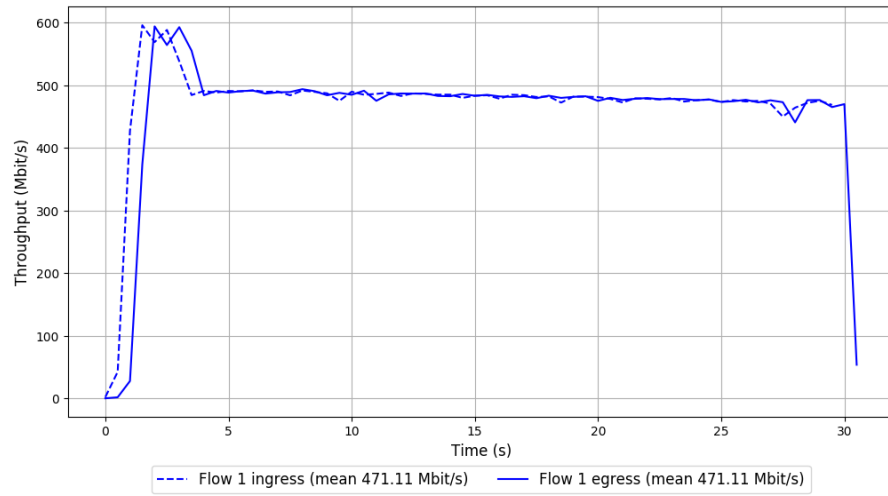
-- Flow 1:

Average throughput: 471.11 Mbit/s

95th percentile per-packet one-way delay: 60.629 ms

Loss rate: 0.00%

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

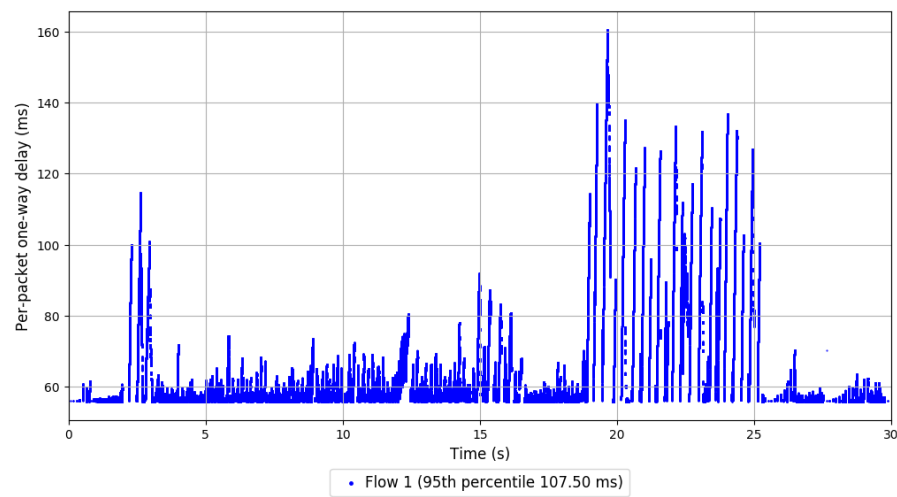
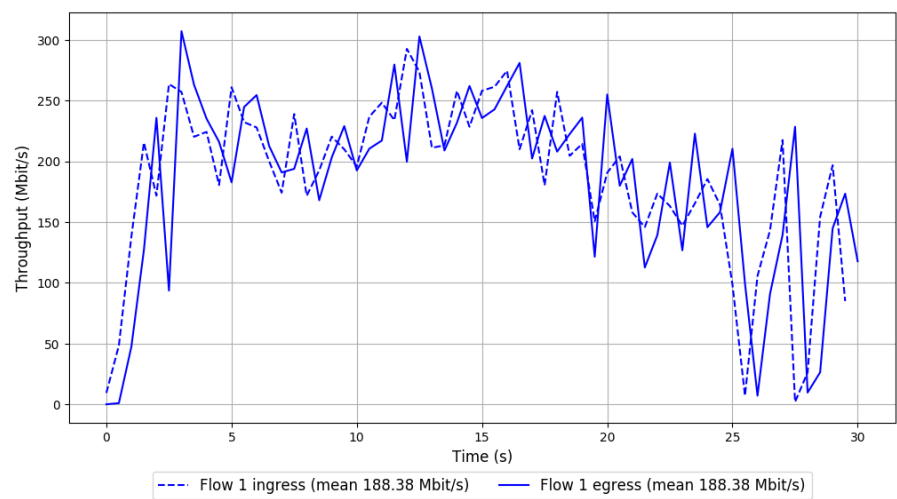


Run 1: Statistics of Verus

Start at: 2019-01-25 11:36:44  
End at: 2019-01-25 11:37:14  
Local clock offset: 0.34 ms  
Remote clock offset: -0.517 ms

# Below is generated by plot.py at 2019-01-25 16:21:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 188.38 Mbit/s  
95th percentile per-packet one-way delay: 107.504 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 188.38 Mbit/s  
95th percentile per-packet one-way delay: 107.504 ms  
Loss rate: 0.00%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-01-25 12:07:49

End at: 2019-01-25 12:08:19

Local clock offset: -0.414 ms

Remote clock offset: 1.148 ms

# Below is generated by plot.py at 2019-01-25 16:21:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 202.12 Mbit/s

95th percentile per-packet one-way delay: 147.689 ms

Loss rate: 0.00%

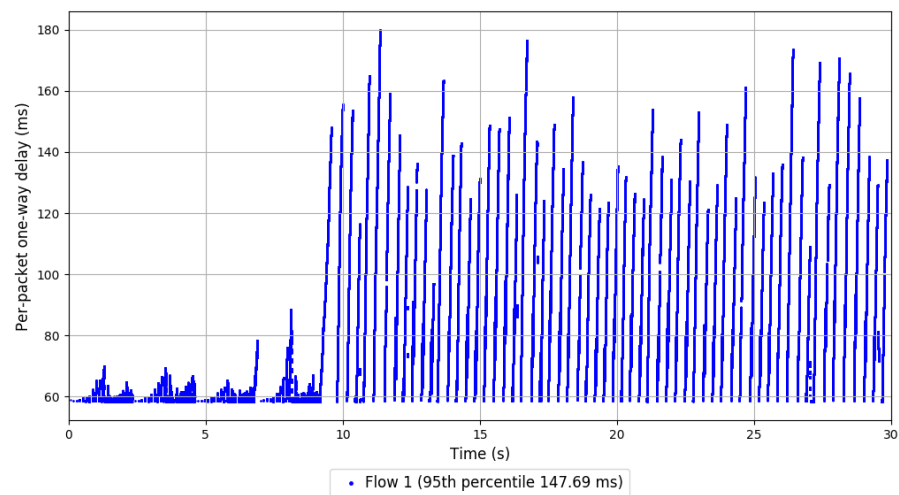
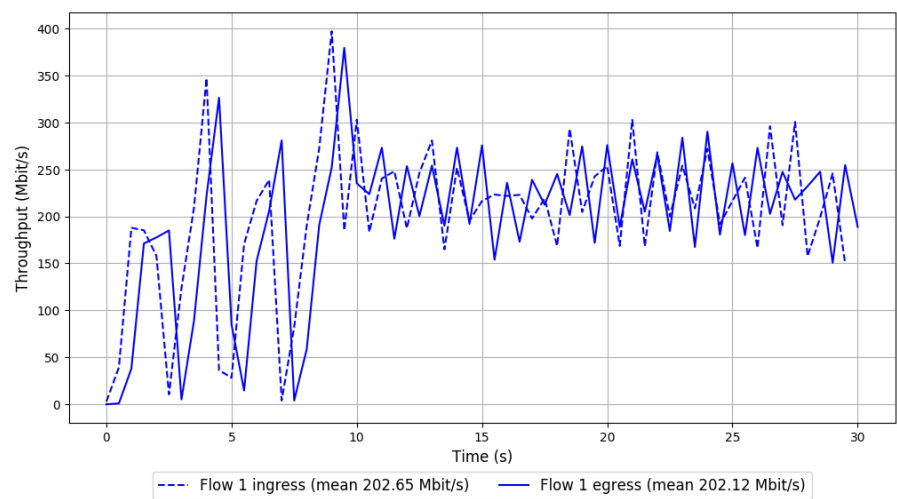
-- Flow 1:

Average throughput: 202.12 Mbit/s

95th percentile per-packet one-way delay: 147.689 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



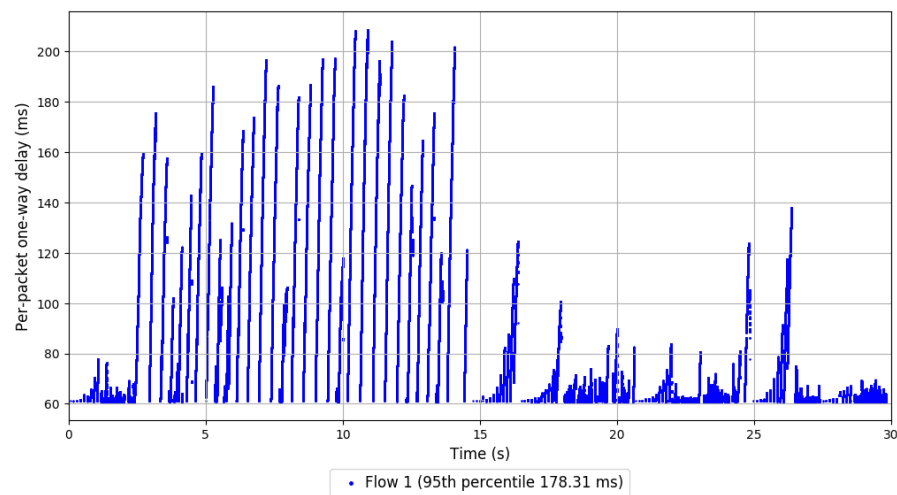
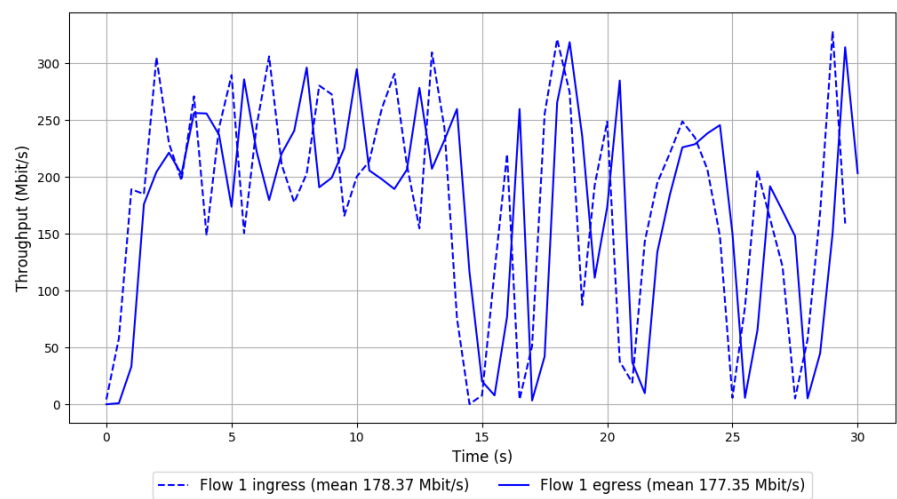


Run 3: Statistics of Verus

Start at: 2019-01-25 12:39:15  
End at: 2019-01-25 12:39:45  
Local clock offset: -0.556 ms  
Remote clock offset: -0.13 ms

# Below is generated by plot.py at 2019-01-25 16:21:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 177.35 Mbit/s  
95th percentile per-packet one-way delay: 178.308 ms  
Loss rate: 0.57%  
-- Flow 1:  
Average throughput: 177.35 Mbit/s  
95th percentile per-packet one-way delay: 178.308 ms  
Loss rate: 0.57%

Run 3: Report of Verus — Data Link

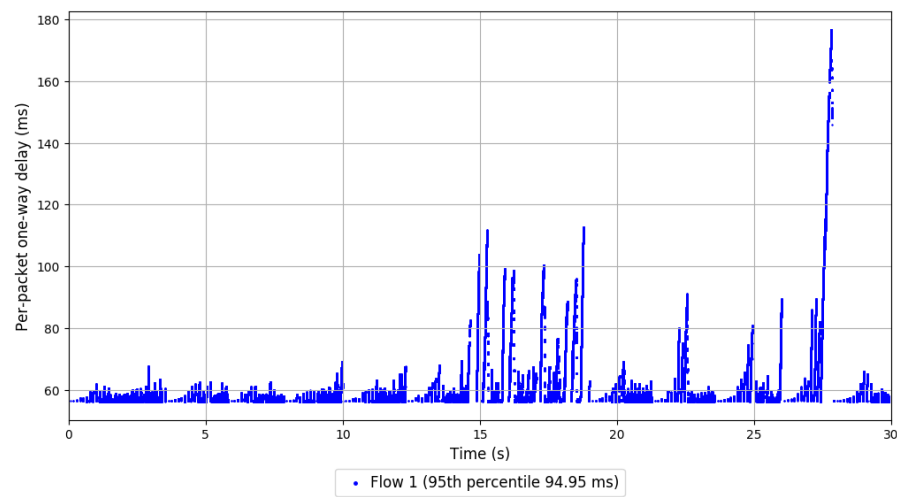
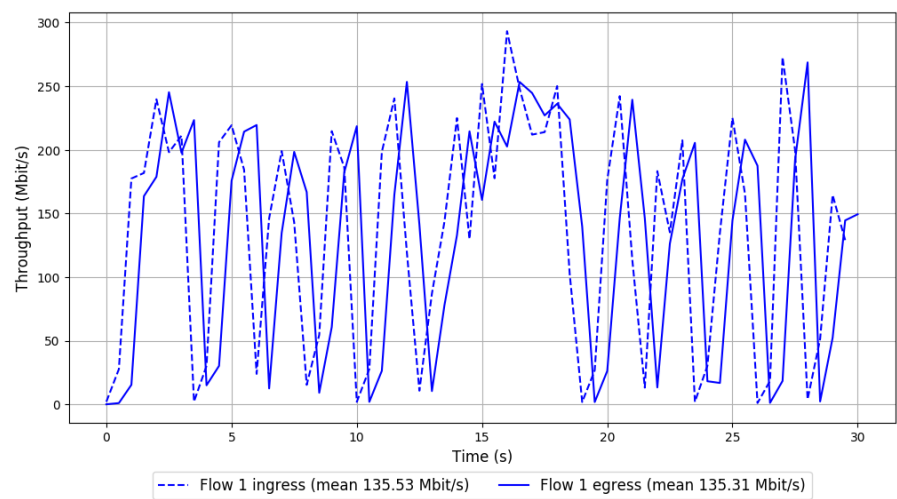


Run 4: Statistics of Verus

Start at: 2019-01-25 13:10:27  
End at: 2019-01-25 13:10:57  
Local clock offset: -0.295 ms  
Remote clock offset: -0.742 ms

# Below is generated by plot.py at 2019-01-25 16:21:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 135.31 Mbit/s  
95th percentile per-packet one-way delay: 94.949 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 135.31 Mbit/s  
95th percentile per-packet one-way delay: 94.949 ms  
Loss rate: 0.16%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-01-25 13:42:56

End at: 2019-01-25 13:43:26

Local clock offset: 0.029 ms

Remote clock offset: -0.65 ms

# Below is generated by plot.py at 2019-01-25 16:23:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 175.25 Mbit/s

95th percentile per-packet one-way delay: 72.238 ms

Loss rate: 0.37%

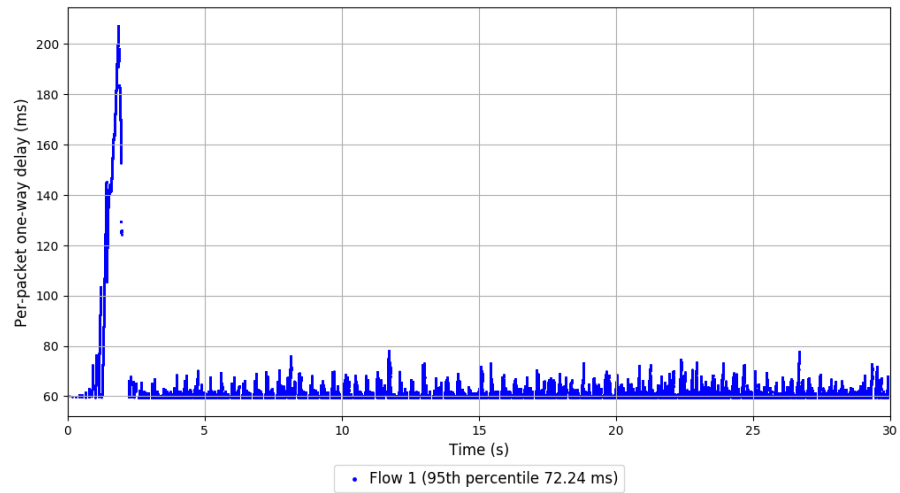
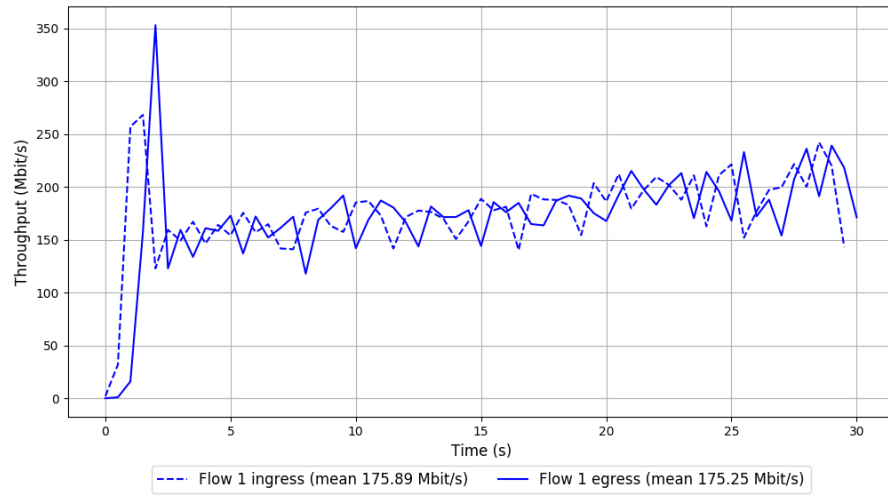
-- Flow 1:

Average throughput: 175.25 Mbit/s

95th percentile per-packet one-way delay: 72.238 ms

Loss rate: 0.37%

## Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-01-25 11:57:26

End at: 2019-01-25 11:57:56

Local clock offset: 0.209 ms

Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2019-01-25 16:26:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 412.54 Mbit/s

95th percentile per-packet one-way delay: 60.829 ms

Loss rate: 0.01%

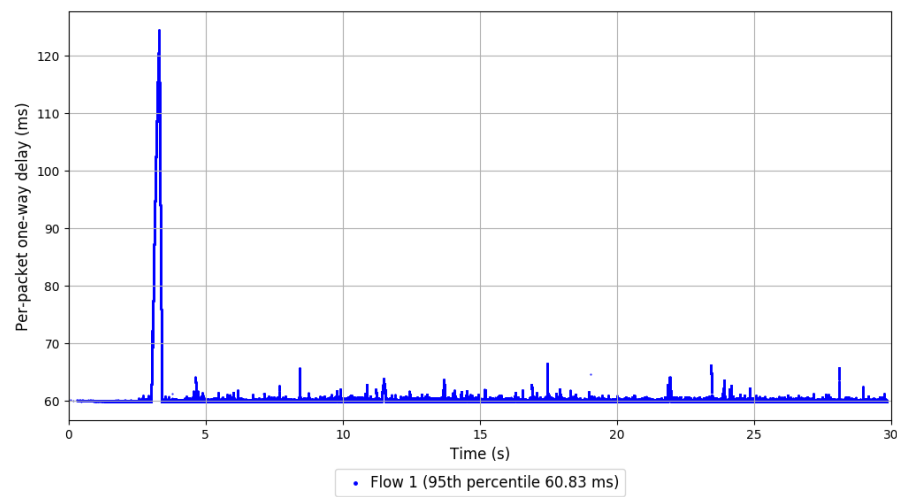
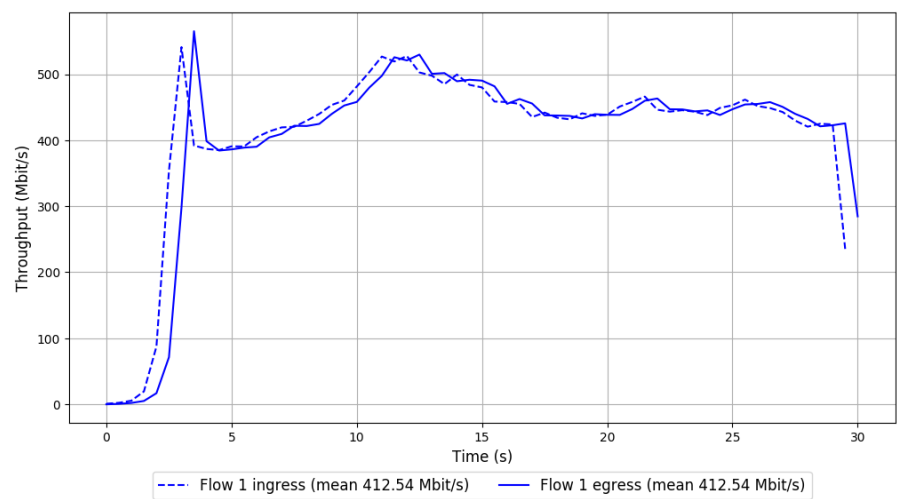
-- Flow 1:

Average throughput: 412.54 Mbit/s

95th percentile per-packet one-way delay: 60.829 ms

Loss rate: 0.01%

Run 1: Report of PCC-Vivace — Data Link





Run 2: Statistics of PCC-Vivace

Start at: 2019-01-25 12:29:01

End at: 2019-01-25 12:29:31

Local clock offset: 0.208 ms

Remote clock offset: 0.27 ms

# Below is generated by plot.py at 2019-01-25 16:26:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 385.54 Mbit/s

95th percentile per-packet one-way delay: 59.527 ms

Loss rate: 0.00%

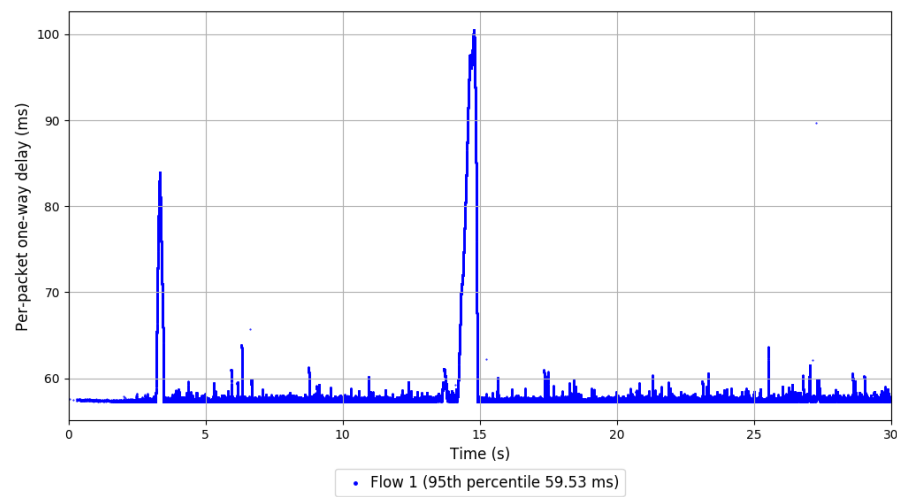
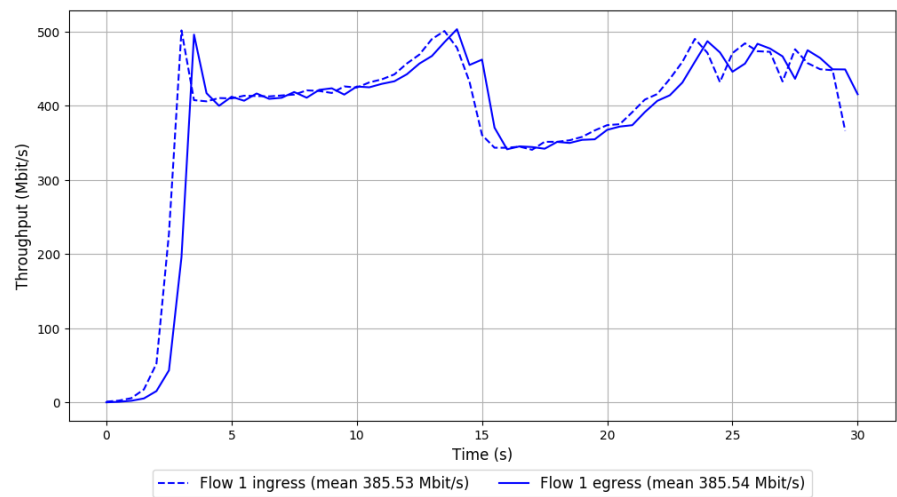
-- Flow 1:

Average throughput: 385.54 Mbit/s

95th percentile per-packet one-way delay: 59.527 ms

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link

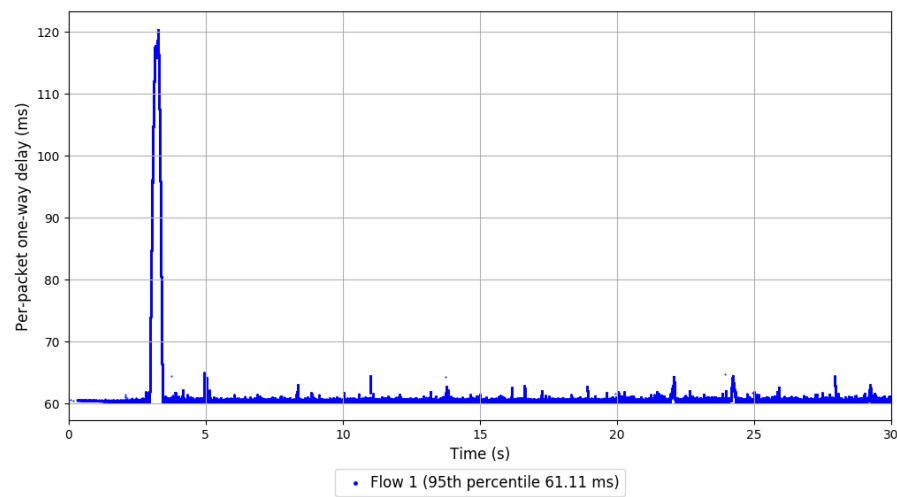
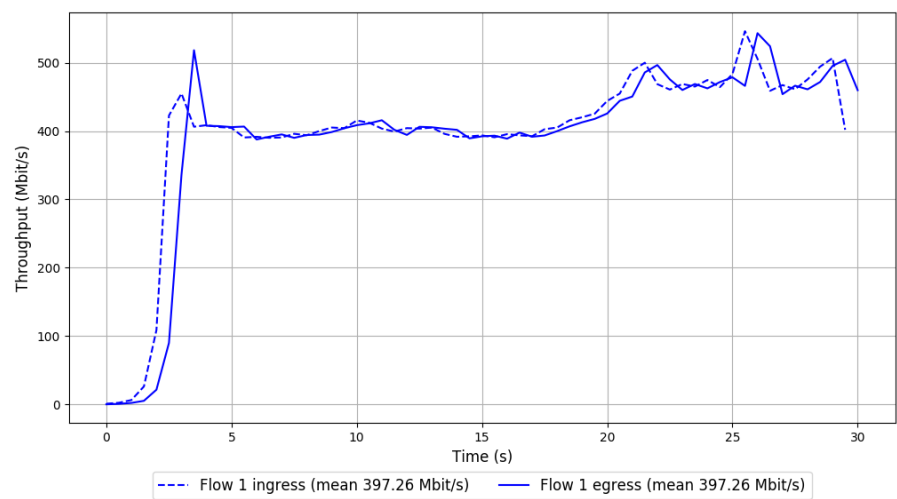


Run 3: Statistics of PCC-Vivace

Start at: 2019-01-25 13:00:10  
End at: 2019-01-25 13:00:40  
Local clock offset: -0.099 ms  
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2019-01-25 16:26:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 397.26 Mbit/s  
95th percentile per-packet one-way delay: 61.111 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 397.26 Mbit/s  
95th percentile per-packet one-way delay: 61.111 ms  
Loss rate: 0.01%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-01-25 13:32:23

End at: 2019-01-25 13:32:53

Local clock offset: 0.156 ms

Remote clock offset: -0.958 ms

# Below is generated by plot.py at 2019-01-25 16:26:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 392.33 Mbit/s

95th percentile per-packet one-way delay: 58.143 ms

Loss rate: 0.04%

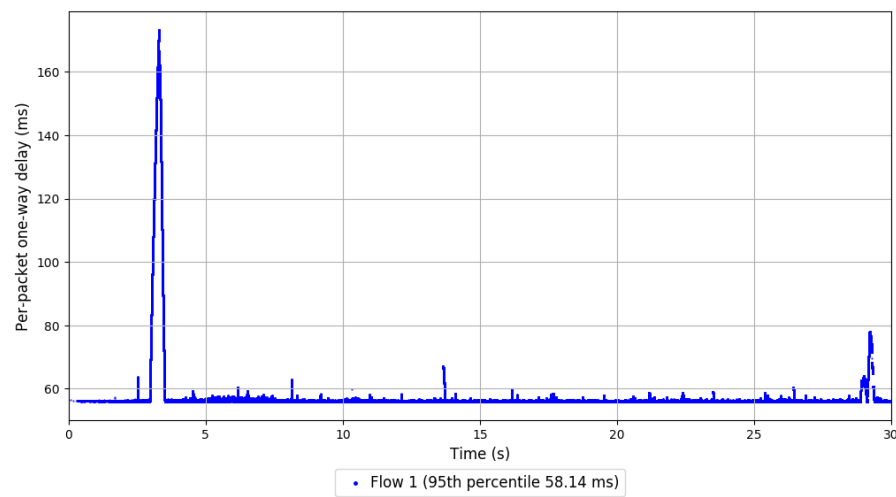
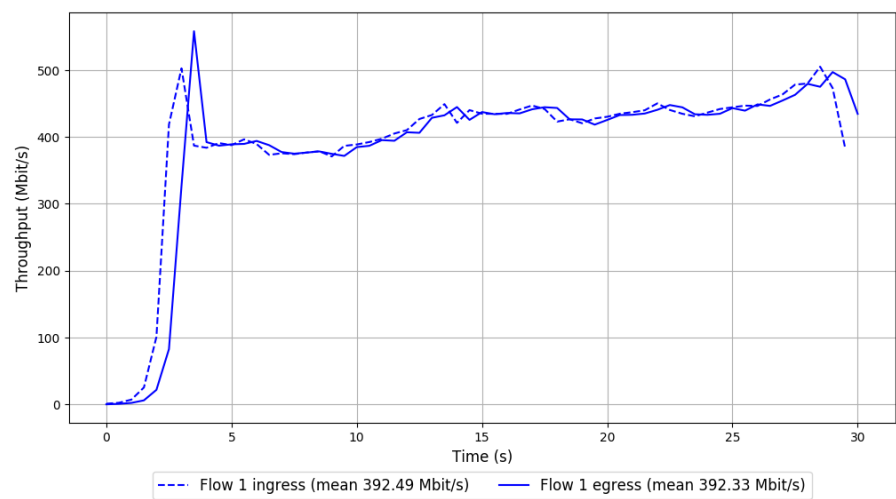
-- Flow 1:

Average throughput: 392.33 Mbit/s

95th percentile per-packet one-way delay: 58.143 ms

Loss rate: 0.04%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-01-25 14:04:03

End at: 2019-01-25 14:04:33

Local clock offset: -0.334 ms

Remote clock offset: 0.8 ms

# Below is generated by plot.py at 2019-01-25 16:26:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 325.24 Mbit/s

95th percentile per-packet one-way delay: 66.328 ms

Loss rate: 0.01%

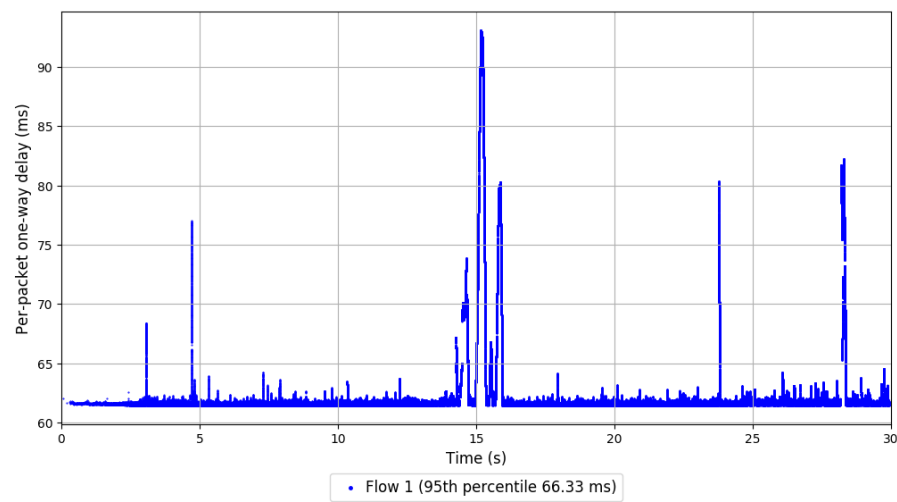
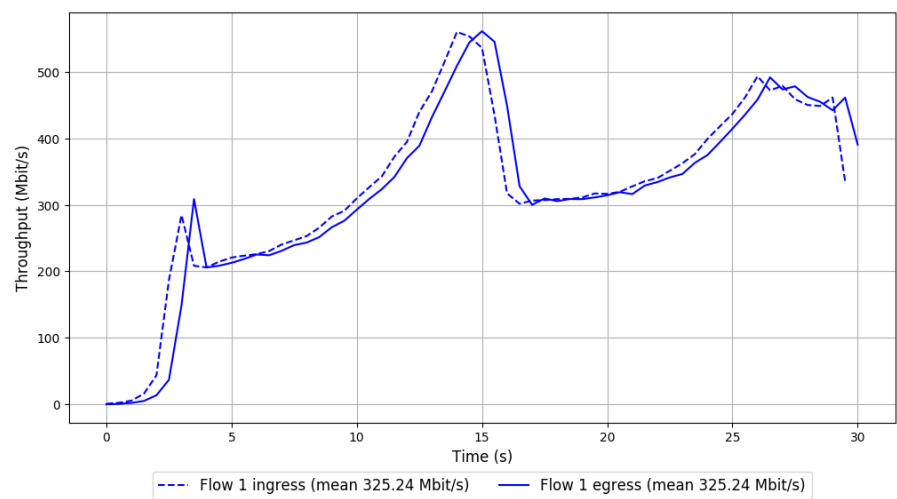
-- Flow 1:

Average throughput: 325.24 Mbit/s

95th percentile per-packet one-way delay: 66.328 ms

Loss rate: 0.01%

Run 5: Report of PCC-Vivace — Data Link





Run 1: Statistics of WebRTC media

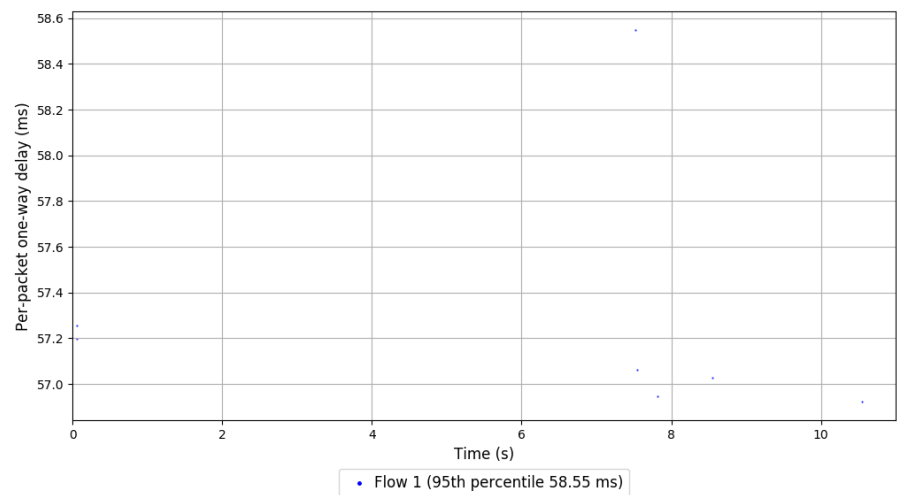
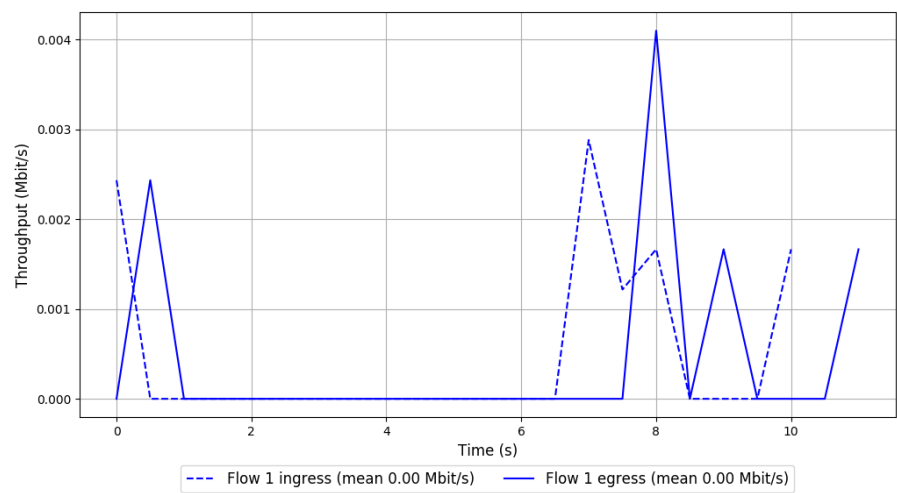
Start at: 2019-01-25 11:56:18

End at: 2019-01-25 11:56:48

Local clock offset: -0.297 ms

Remote clock offset: -0.899 ms

Run 1: Report of WebRTC media — Data Link

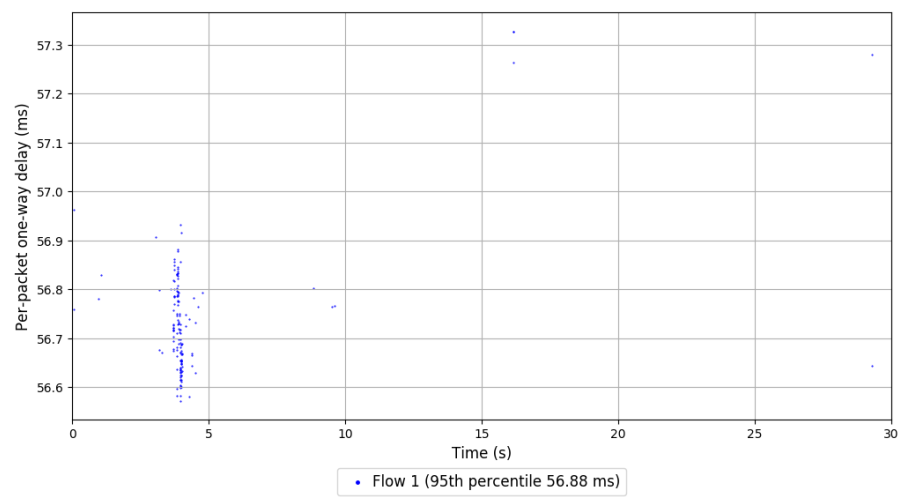
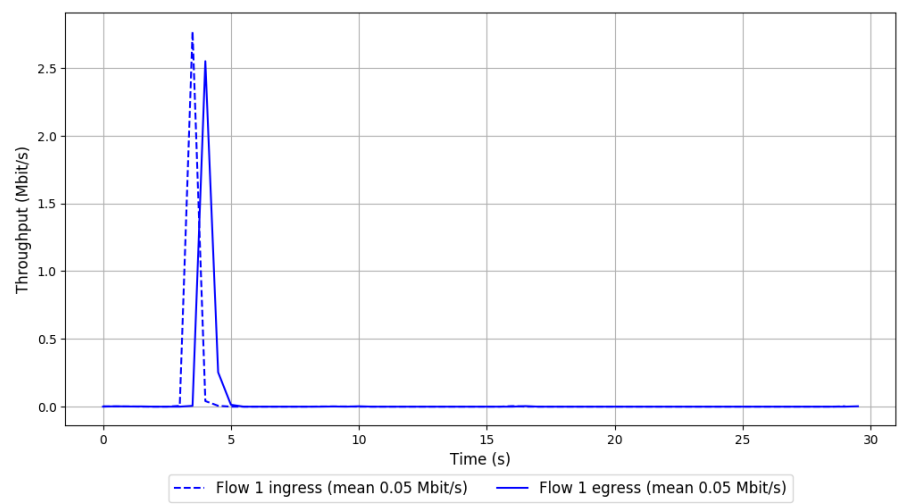


Run 2: Statistics of WebRTC media

Start at: 2019-01-25 12:27:53  
End at: 2019-01-25 12:28:23  
Local clock offset: -0.357 ms  
Remote clock offset: -0.748 ms

# Below is generated by plot.py at 2019-01-25 16:26:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 56.882 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 56.882 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

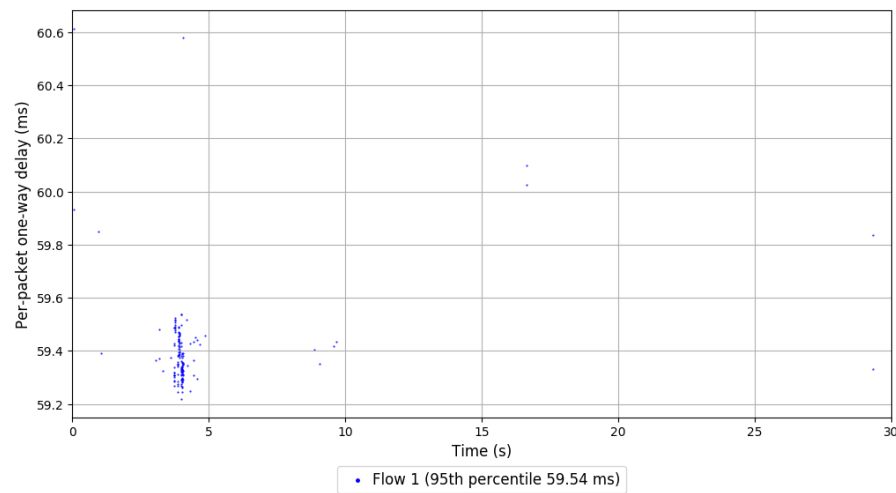
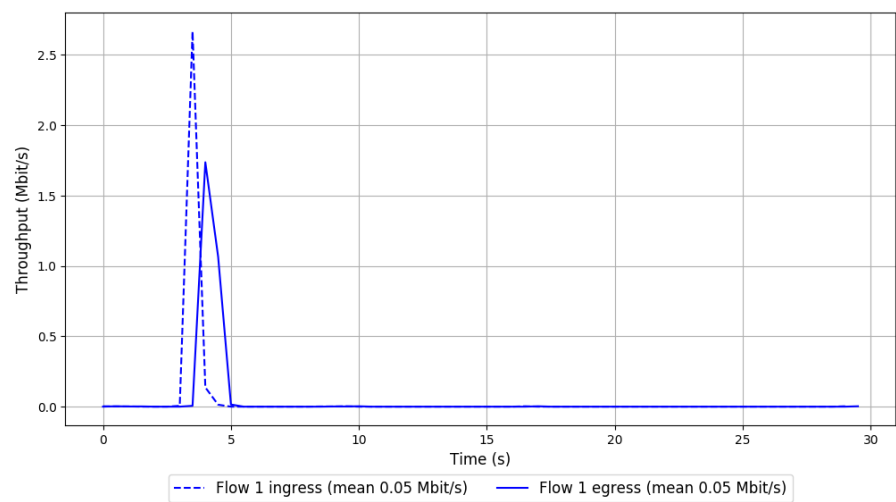


Run 3: Statistics of WebRTC media

Start at: 2019-01-25 12:59:02  
End at: 2019-01-25 12:59:32  
Local clock offset: 0.225 ms  
Remote clock offset: -0.891 ms

# Below is generated by plot.py at 2019-01-25 16:26:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 59.538 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 59.538 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-01-25 13:31:15

End at: 2019-01-25 13:31:45

Local clock offset: -0.314 ms

Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2019-01-25 16:26:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 57.869 ms

Loss rate: 0.00%

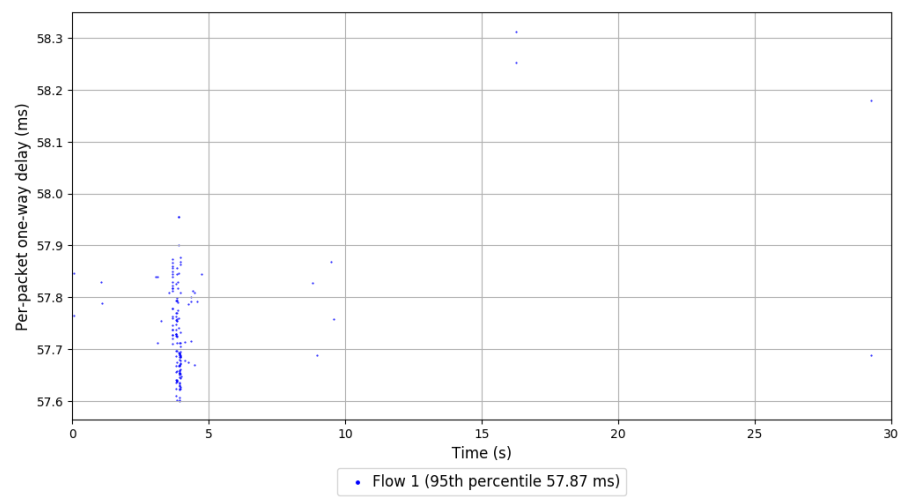
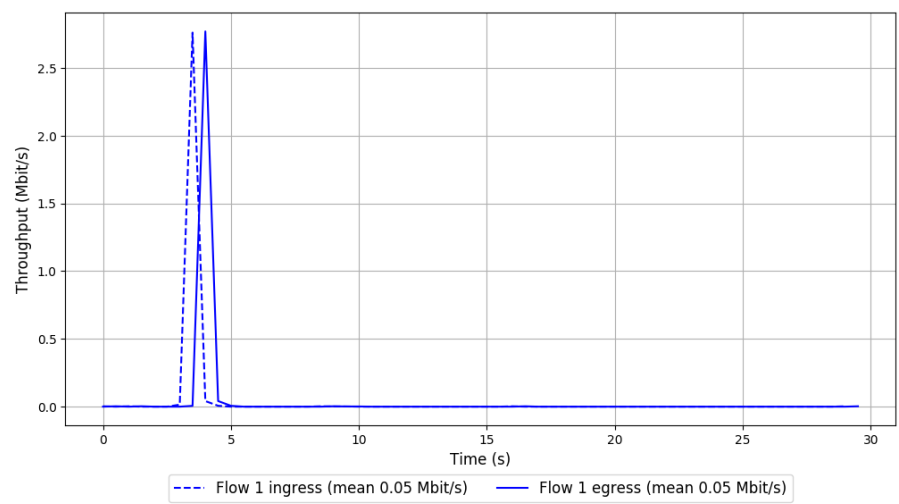
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 57.869 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link





Run 5: Statistics of WebRTC media

Start at: 2019-01-25 14:02:55  
End at: 2019-01-25 14:03:25  
Local clock offset: -0.287 ms  
Remote clock offset: -0.316 ms

# Below is generated by plot.py at 2019-01-25 16:26:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.23 Mbit/s  
95th percentile per-packet one-way delay: 57.298 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.23 Mbit/s  
95th percentile per-packet one-way delay: 57.298 ms  
Loss rate: 0.00%

## Run 5: Report of WebRTC media — Data Link

