

## Pantheon Report

Generated at 2019-03-09 10:35:47 (UTC).

Data path: GCE Iowa 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:

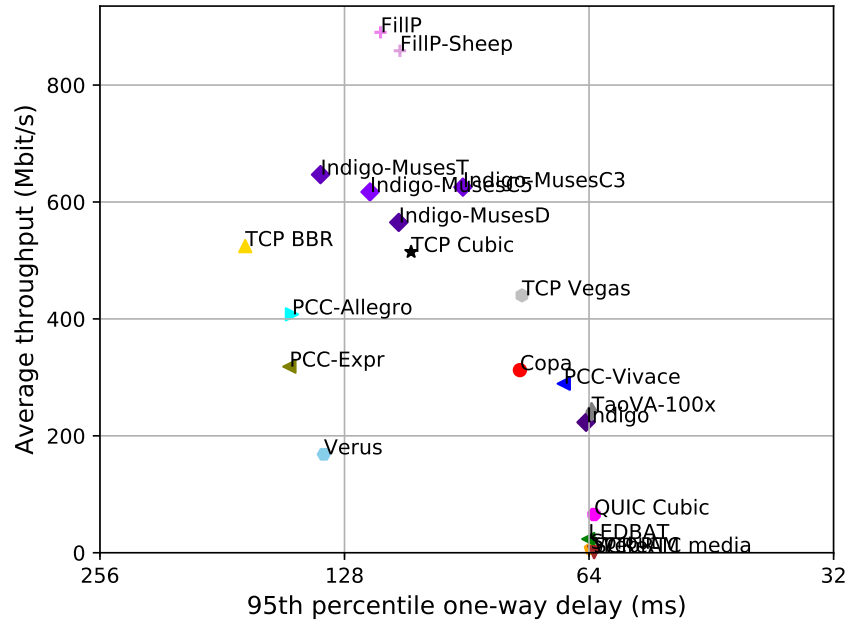
```
Linux 4.15.0-1026-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

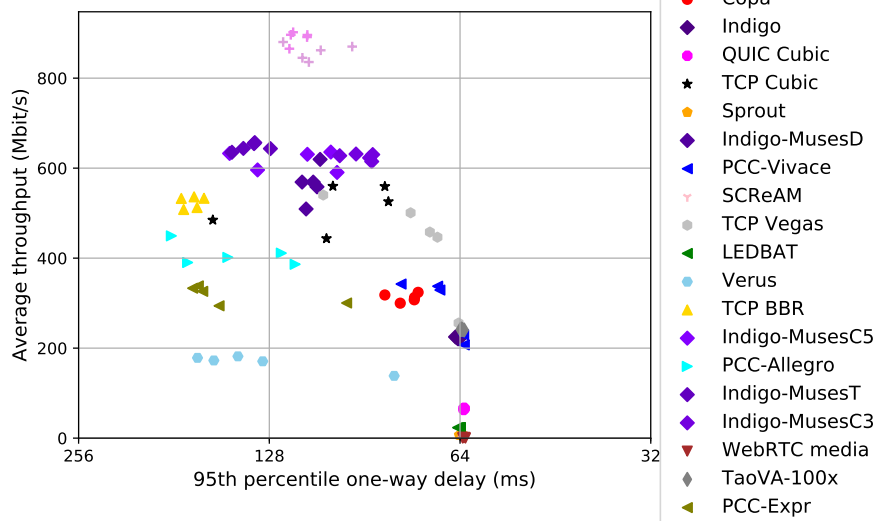
```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third\_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

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



test from GCE Iowa to GCE Tokyo, 5 runs of 30s each per scheme



| scheme         | # runs | mean avg tput (Mbit/s)<br>flow 1 | mean 95th-%ile delay (ms)<br>flow 1 | mean loss rate (%)<br>flow 1 |
|----------------|--------|----------------------------------|-------------------------------------|------------------------------|
| TCP BBR        | 5      | 524.55                           | 169.60                              | 0.84                         |
| Copa           | 5      | 312.42                           | 77.86                               | 0.01                         |
| TCP Cubic      | 5      | 514.62                           | 105.98                              | 0.03                         |
| FillP          | 5      | 890.21                           | 115.57                              | 0.59                         |
| FillP-Sheep    | 5      | 858.68                           | 109.40                              | 0.42                         |
| Indigo         | 4      | 223.16                           | 64.55                               | 0.00                         |
| Indigo-MusesC3 | 5      | 625.38                           | 91.51                               | 0.02                         |
| Indigo-MusesC5 | 5      | 617.15                           | 119.07                              | 0.13                         |
| Indigo-MusesD  | 5      | 565.06                           | 109.76                              | 0.00                         |
| Indigo-MusesT  | 5      | 646.77                           | 137.01                              | 0.16                         |
| LEDBAT         | 5      | 23.44                            | 64.14                               | 0.00                         |
| PCC-Allegro    | 5      | 407.78                           | 148.57                              | 0.98                         |
| PCC-Expr       | 5      | 318.41                           | 149.65                              | 3.10                         |
| QUIC Cubic     | 4      | 65.45                            | 63.08                               | 0.00                         |
| SCReAM         | 5      | 0.22                             | 63.17                               | 0.00                         |
| Sprout         | 5      | 6.81                             | 63.73                               | 0.00                         |
| TaoVA-100x     | 5      | 241.49                           | 63.54                               | 0.00                         |
| TCP Vegas      | 5      | 440.26                           | 77.41                               | 0.00                         |
| Verus          | 5      | 168.39                           | 135.73                              | 0.10                         |
| PCC-Vivace     | 5      | 289.21                           | 68.76                               | 0.00                         |
| WebRTC media   | 4      | 0.89                             | 63.07                               | 0.00                         |



Run 1: Statistics of TCP BBR

Start at: 2019-03-09 06:30:30

End at: 2019-03-09 06:31:00

Local clock offset: -0.133 ms

Remote clock offset: 0.248 ms

# Below is generated by plot.py at 2019-03-09 09:03:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 512.53 Mbit/s

95th percentile per-packet one-way delay: 166.430 ms

Loss rate: 0.59%

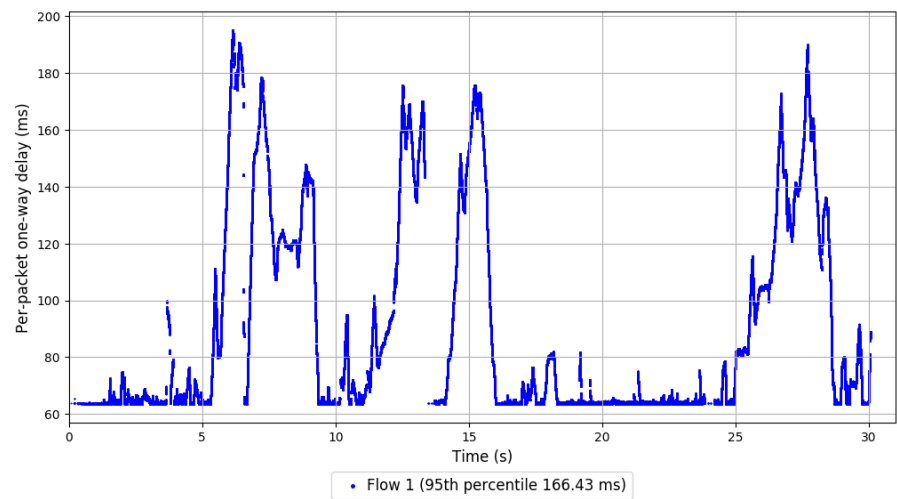
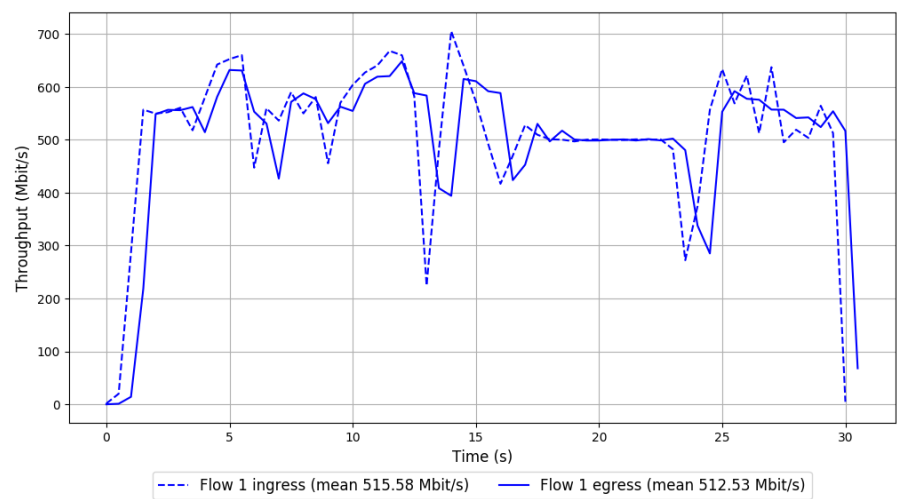
-- Flow 1:

Average throughput: 512.53 Mbit/s

95th percentile per-packet one-way delay: 166.430 ms

Loss rate: 0.59%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-03-09 07:01:33

End at: 2019-03-09 07:02:03

Local clock offset: -0.079 ms

Remote clock offset: 0.124 ms

# Below is generated by plot.py at 2019-03-09 09:03:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 536.24 Mbit/s

95th percentile per-packet one-way delay: 168.250 ms

Loss rate: 0.76%

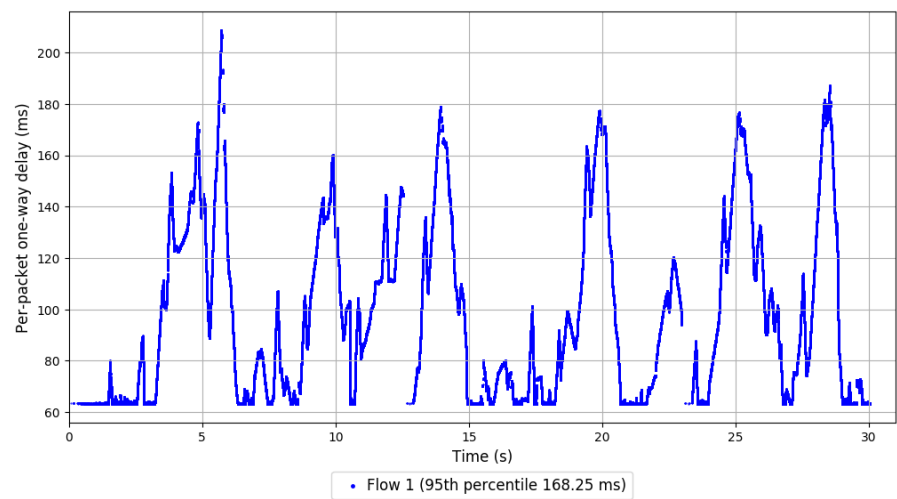
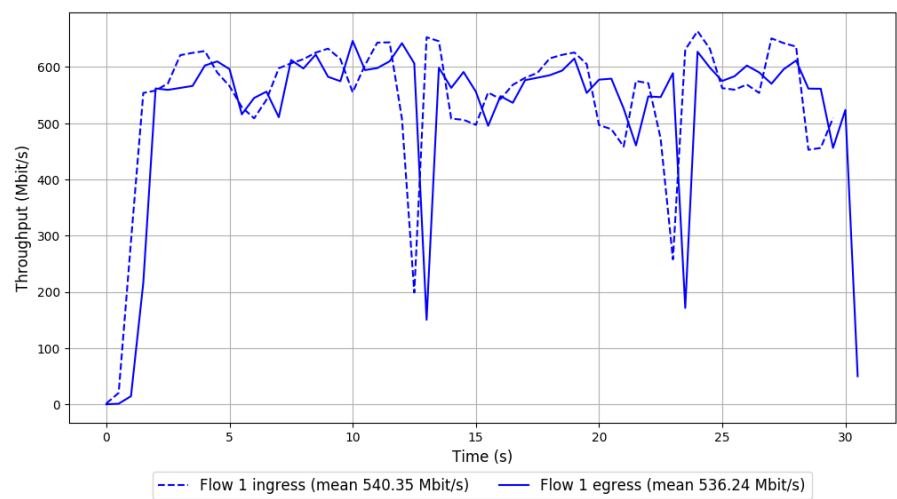
-- Flow 1:

Average throughput: 536.24 Mbit/s

95th percentile per-packet one-way delay: 168.250 ms

Loss rate: 0.76%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-03-09 07:32:16

End at: 2019-03-09 07:32:46

Local clock offset: -0.098 ms

Remote clock offset: -0.27 ms

# Below is generated by plot.py at 2019-03-09 09:03:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 532.71 Mbit/s

95th percentile per-packet one-way delay: 176.259 ms

Loss rate: 1.22%

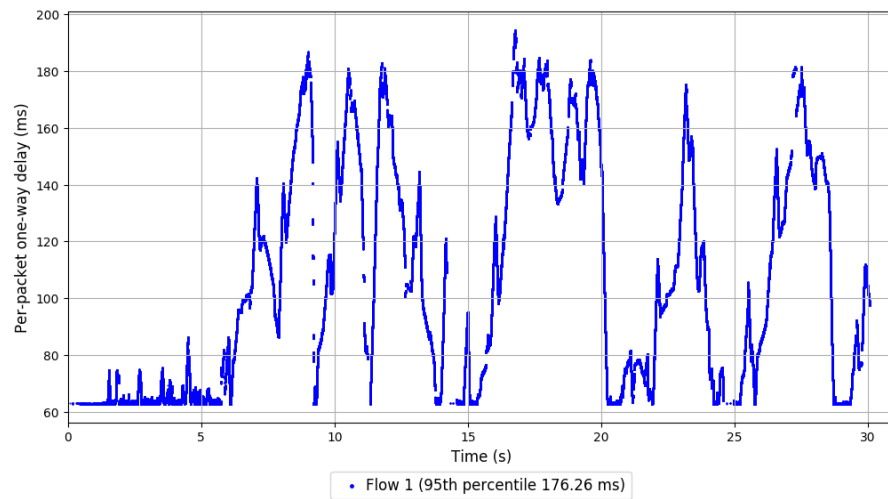
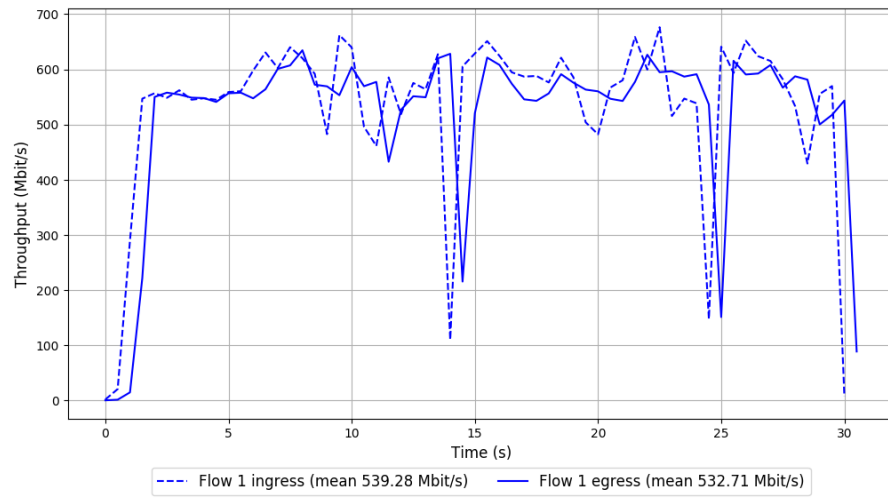
-- Flow 1:

Average throughput: 532.71 Mbit/s

95th percentile per-packet one-way delay: 176.259 ms

Loss rate: 1.22%

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



Run 4: Statistics of TCP BBR

Start at: 2019-03-09 08:03:26

End at: 2019-03-09 08:03:56

Local clock offset: -0.034 ms

Remote clock offset: 0.061 ms

# Below is generated by plot.py at 2019-03-09 09:03:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 508.14 Mbit/s

95th percentile per-packet one-way delay: 174.755 ms

Loss rate: 1.15%

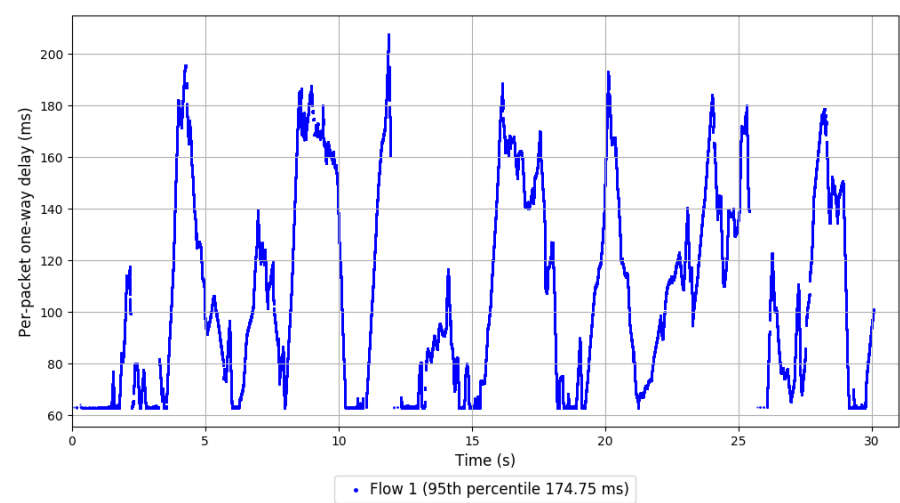
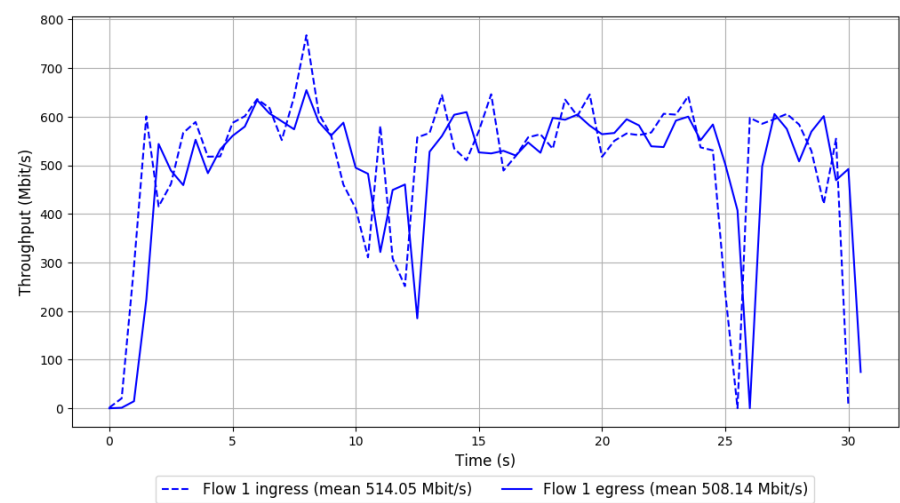
-- Flow 1:

Average throughput: 508.14 Mbit/s

95th percentile per-packet one-way delay: 174.755 ms

Loss rate: 1.15%

Run 4: Report of TCP BBR — Data Link



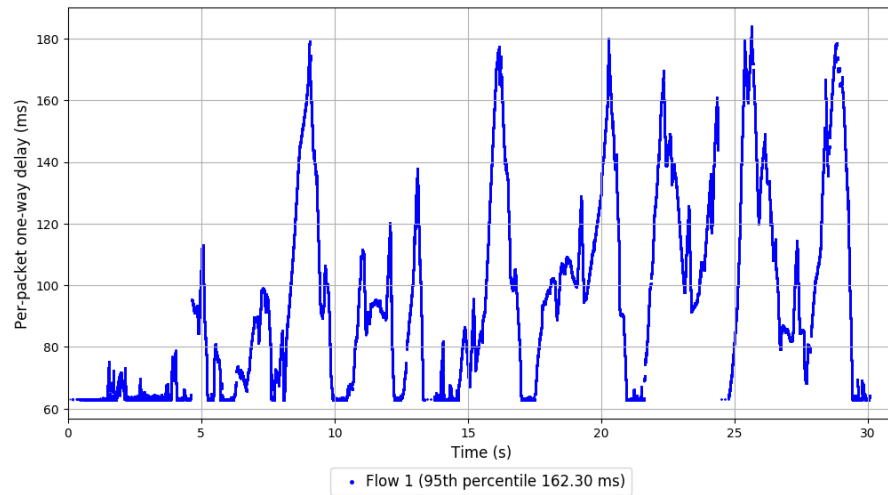
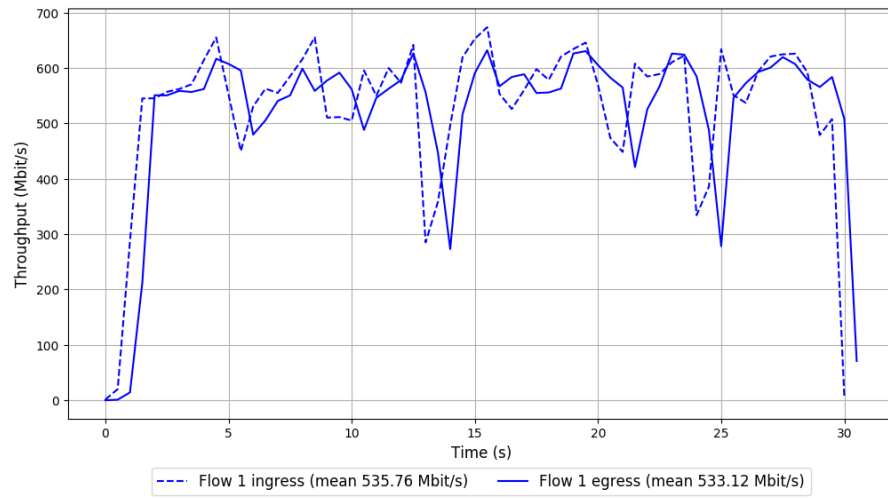


Run 5: Statistics of TCP BBR

Start at: 2019-03-09 08:34:31  
End at: 2019-03-09 08:35:01  
Local clock offset: -0.072 ms  
Remote clock offset: -0.163 ms

# Below is generated by plot.py at 2019-03-09 09:03:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 533.12 Mbit/s  
95th percentile per-packet one-way delay: 162.298 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 533.12 Mbit/s  
95th percentile per-packet one-way delay: 162.298 ms  
Loss rate: 0.49%

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

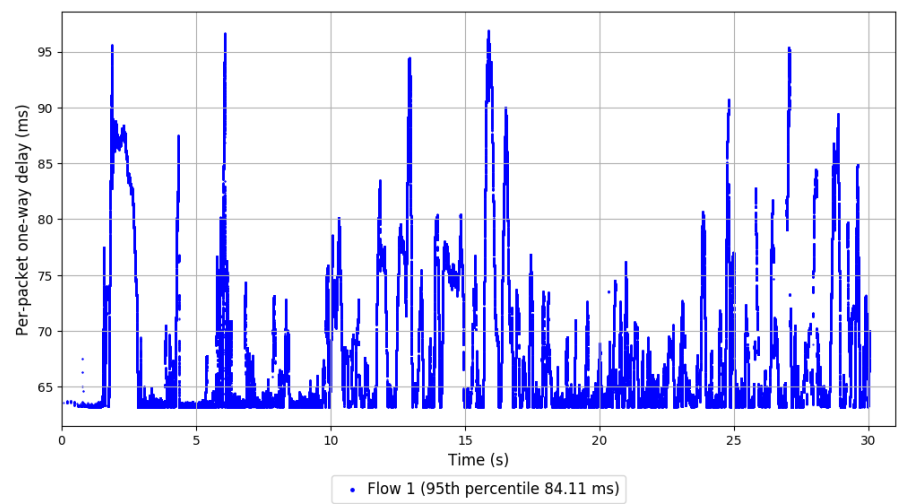
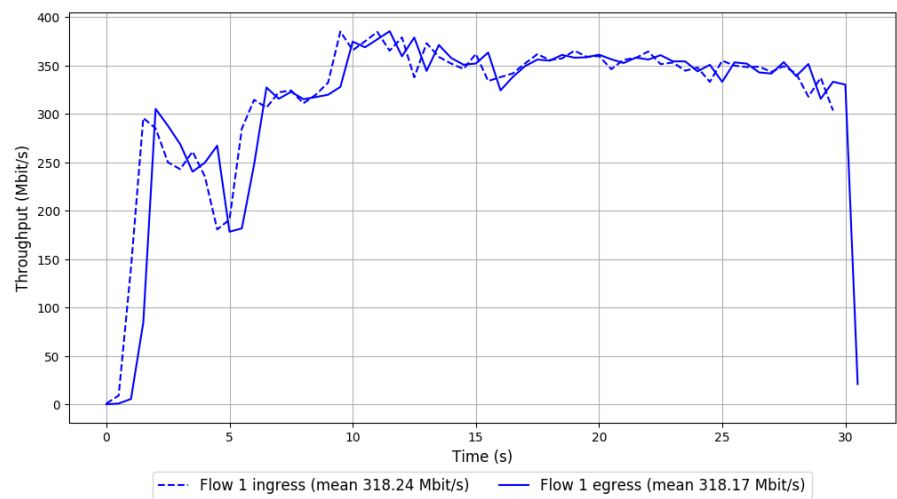


Run 1: Statistics of Copa

Start at: 2019-03-09 06:08:48  
End at: 2019-03-09 06:09:18  
Local clock offset: -0.109 ms  
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2019-03-09 09:04:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 318.17 Mbit/s  
95th percentile per-packet one-way delay: 84.115 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 318.17 Mbit/s  
95th percentile per-packet one-way delay: 84.115 ms  
Loss rate: 0.02%

Run 1: Report of Copa — Data Link

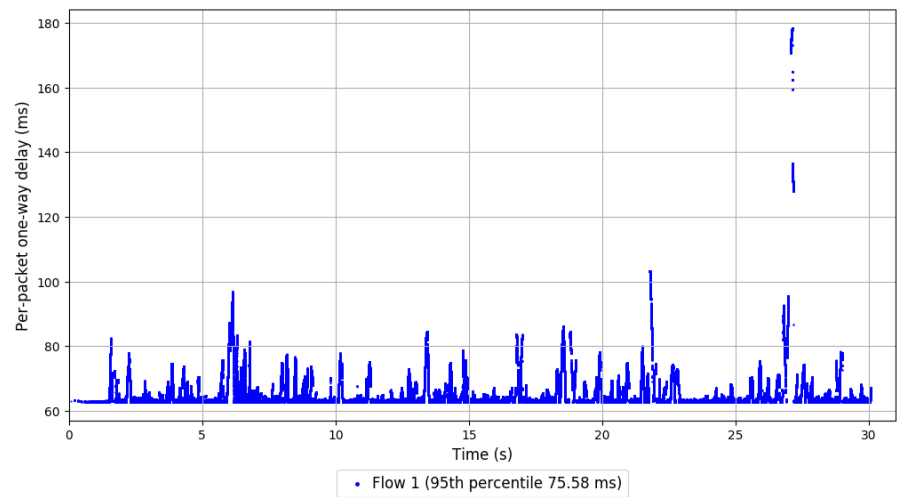
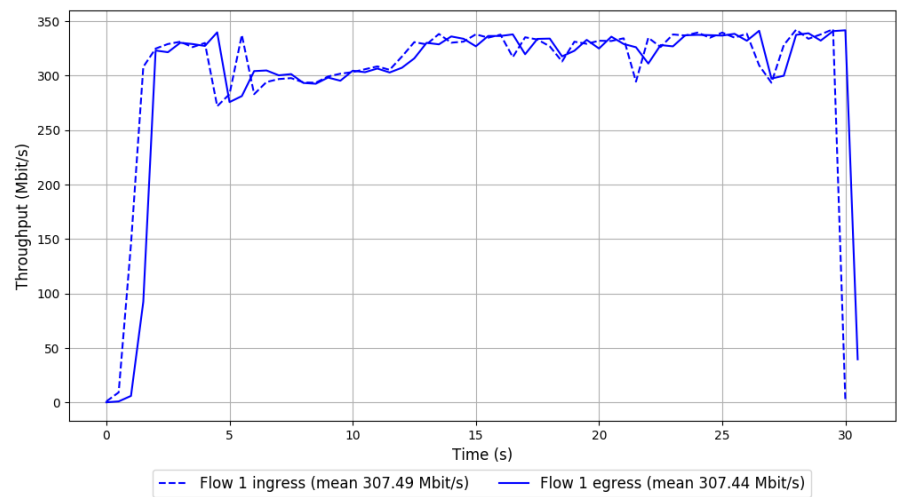


Run 2: Statistics of Copa

Start at: 2019-03-09 06:39:27  
End at: 2019-03-09 06:39:57  
Local clock offset: -0.092 ms  
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2019-03-09 09:04:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 307.44 Mbit/s  
95th percentile per-packet one-way delay: 75.582 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 307.44 Mbit/s  
95th percentile per-packet one-way delay: 75.582 ms  
Loss rate: 0.02%

Run 2: Report of Copa — Data Link

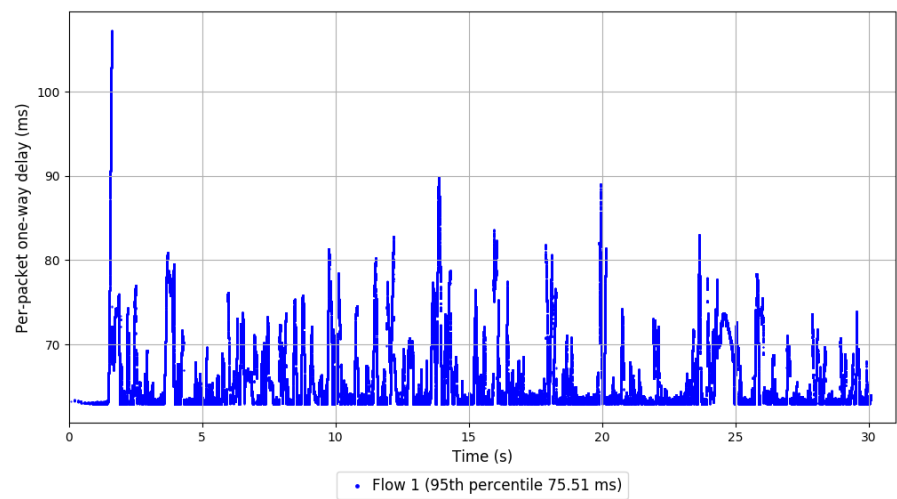
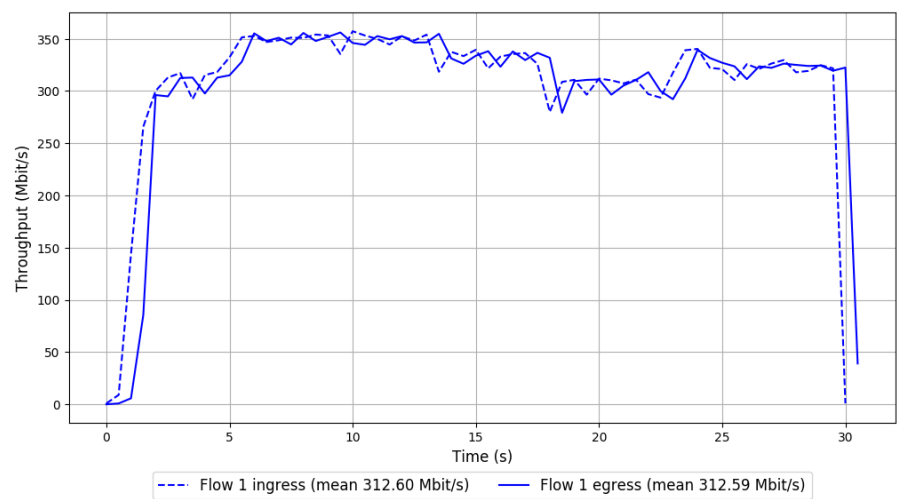


Run 3: Statistics of Copa

Start at: 2019-03-09 07:10:16  
End at: 2019-03-09 07:10:46  
Local clock offset: -0.068 ms  
Remote clock offset: 0.129 ms

# Below is generated by plot.py at 2019-03-09 09:04:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 312.59 Mbit/s  
95th percentile per-packet one-way delay: 75.511 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 312.59 Mbit/s  
95th percentile per-packet one-way delay: 75.511 ms  
Loss rate: 0.00%

Run 3: Report of Copa — Data Link





Run 4: Statistics of Copa

Start at: 2019-03-09 07:41:19

End at: 2019-03-09 07:41:49

Local clock offset: -0.082 ms

Remote clock offset: 0.098 ms

# Below is generated by plot.py at 2019-03-09 09:12:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 324.00 Mbit/s

95th percentile per-packet one-way delay: 74.534 ms

Loss rate: 0.00%

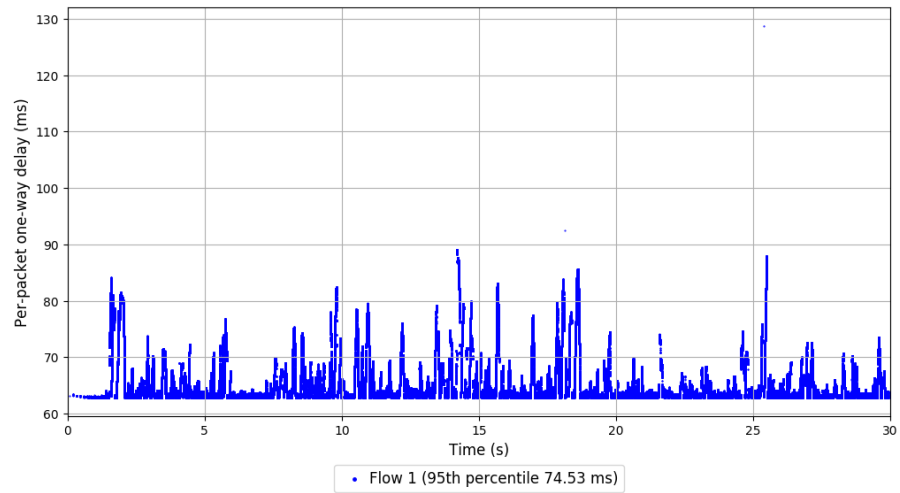
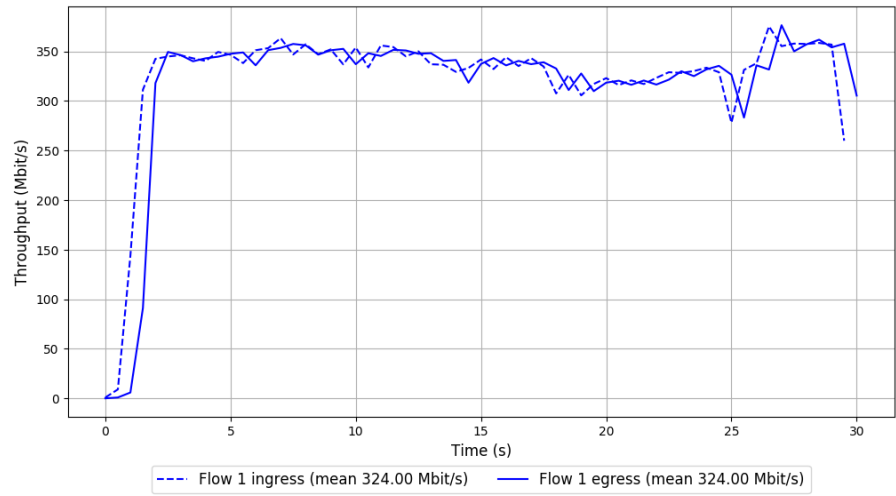
-- Flow 1:

Average throughput: 324.00 Mbit/s

95th percentile per-packet one-way delay: 74.534 ms

Loss rate: 0.00%

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

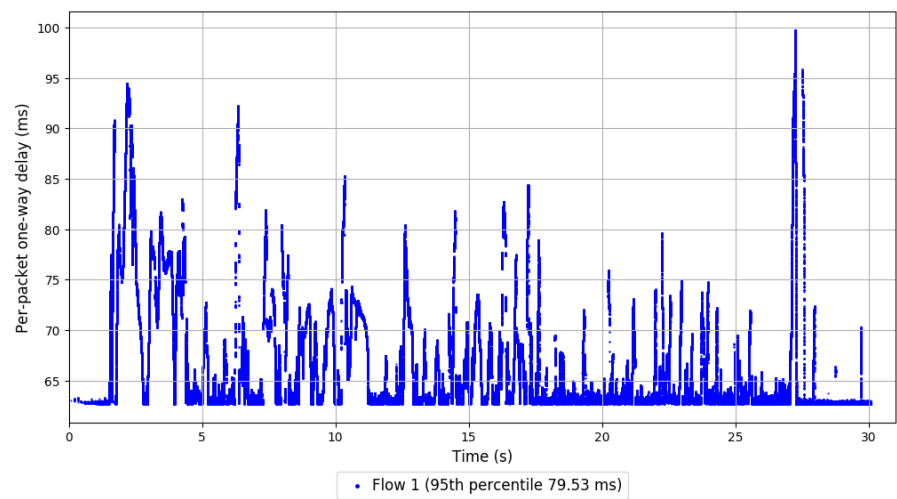
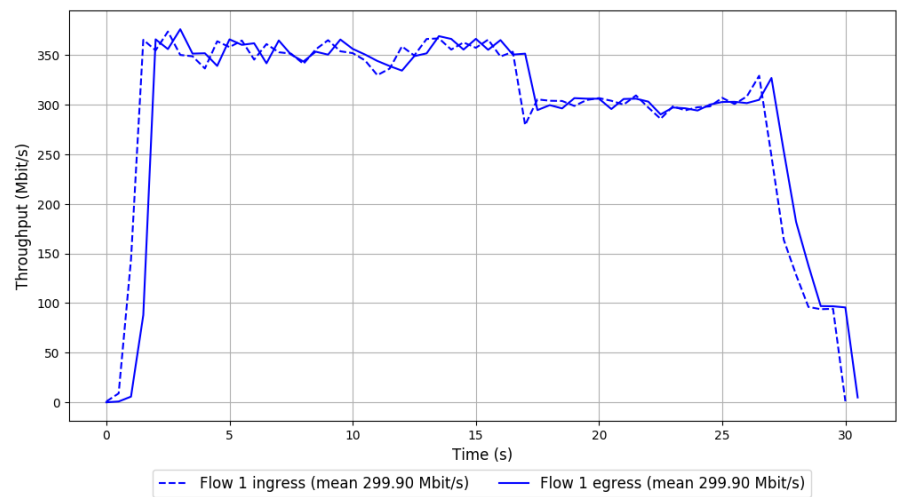


Run 5: Statistics of Copa

Start at: 2019-03-09 08:12:26  
End at: 2019-03-09 08:12:56  
Local clock offset: 0.004 ms  
Remote clock offset: -0.205 ms

# Below is generated by plot.py at 2019-03-09 09:12:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 299.90 Mbit/s  
95th percentile per-packet one-way delay: 79.535 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 299.90 Mbit/s  
95th percentile per-packet one-way delay: 79.535 ms  
Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-03-09 06:18:37

End at: 2019-03-09 06:19:07

Local clock offset: -0.123 ms

Remote clock offset: -0.19 ms

# Below is generated by plot.py at 2019-03-09 09:12:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 443.52 Mbit/s

95th percentile per-packet one-way delay: 103.992 ms

Loss rate: 0.00%

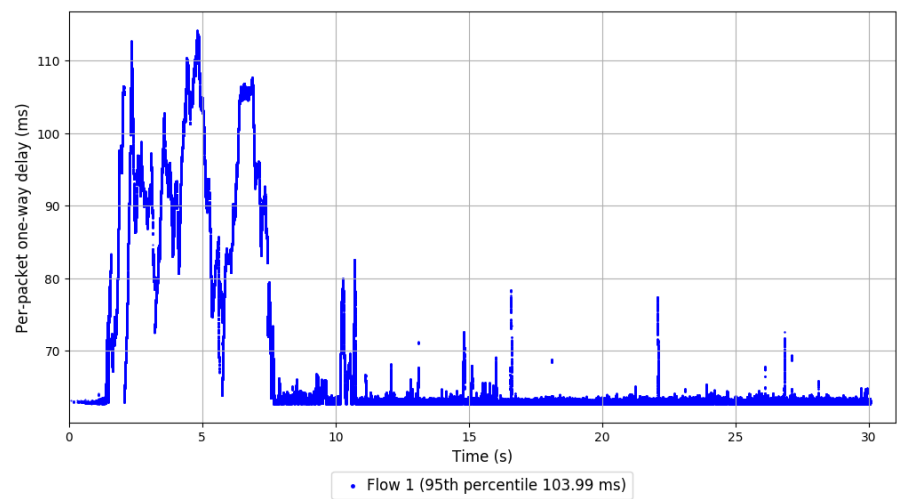
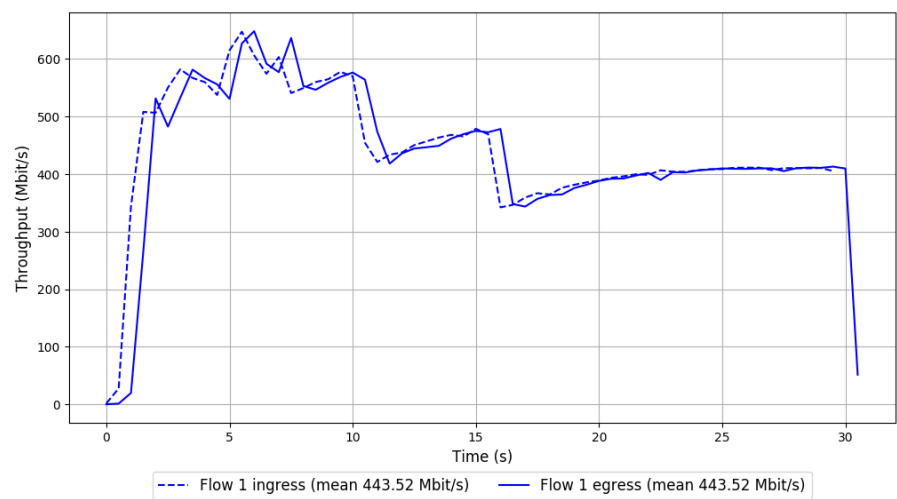
-- Flow 1:

Average throughput: 443.52 Mbit/s

95th percentile per-packet one-way delay: 103.992 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-03-09 06:49:39

End at: 2019-03-09 06:50:09

Local clock offset: -0.086 ms

Remote clock offset: 0.037 ms

# Below is generated by plot.py at 2019-03-09 09:12:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 559.30 Mbit/s

95th percentile per-packet one-way delay: 84.112 ms

Loss rate: 0.02%

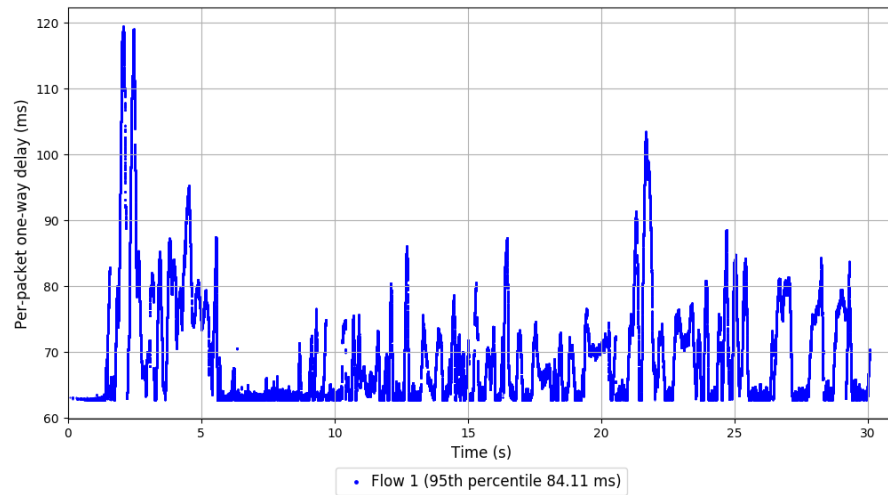
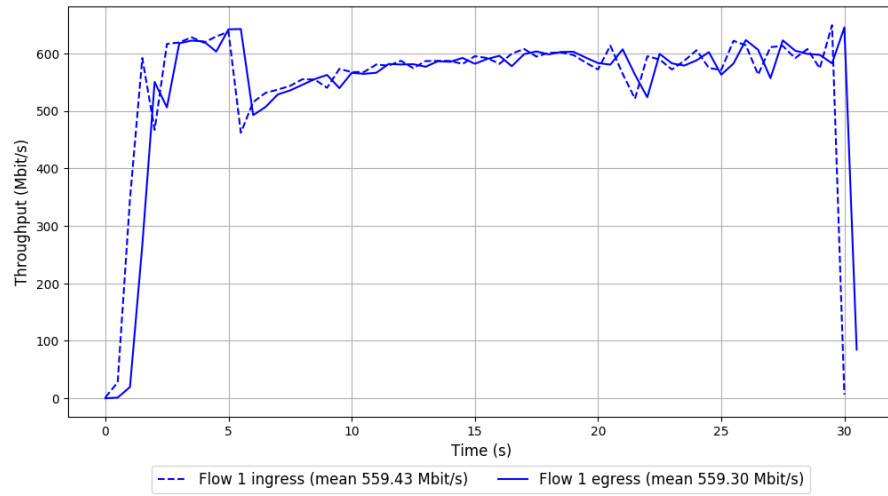
-- Flow 1:

Average throughput: 559.30 Mbit/s

95th percentile per-packet one-way delay: 84.112 ms

Loss rate: 0.02%

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



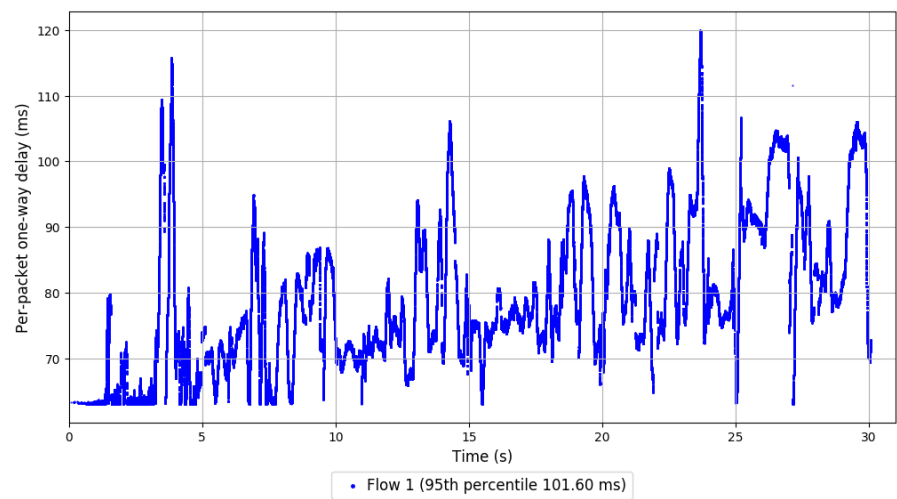
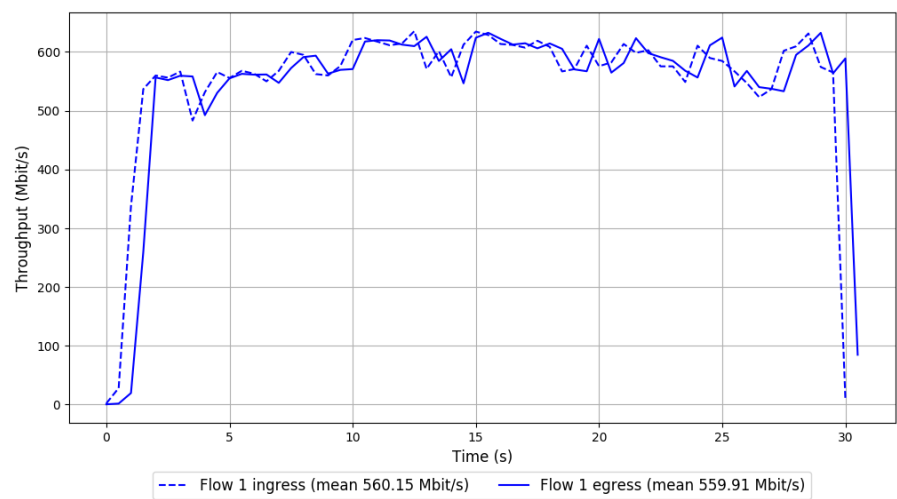


Run 3: Statistics of TCP Cubic

Start at: 2019-03-09 07:20:24  
End at: 2019-03-09 07:20:54  
Local clock offset: -0.082 ms  
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2019-03-09 09:12:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 559.91 Mbit/s  
95th percentile per-packet one-way delay: 101.598 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 559.91 Mbit/s  
95th percentile per-packet one-way delay: 101.598 ms  
Loss rate: 0.04%

Run 3: Report of TCP Cubic — Data Link

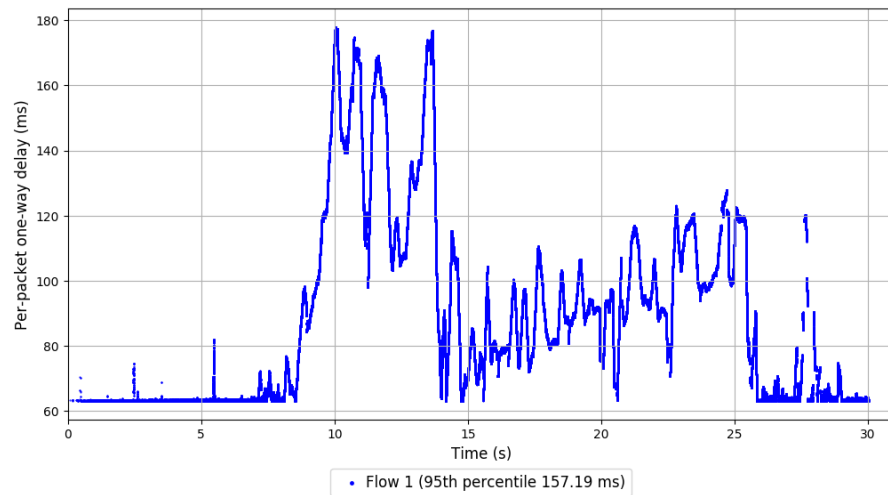
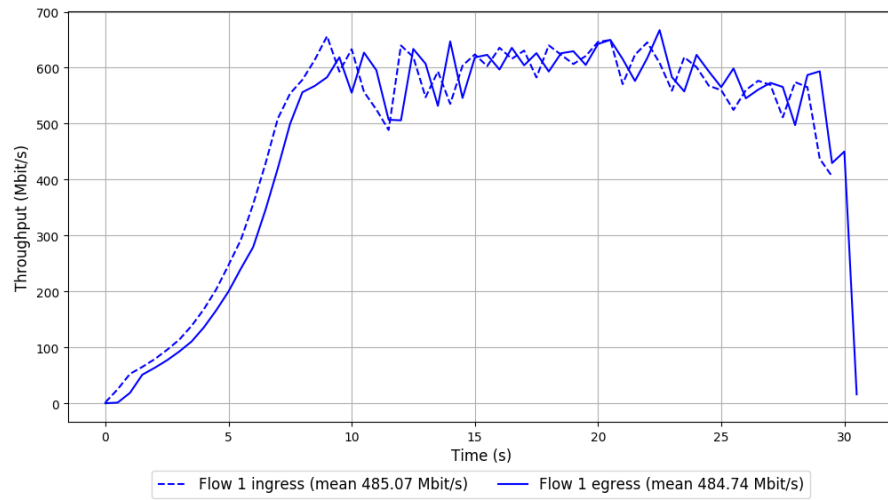


Run 4: Statistics of TCP Cubic

Start at: 2019-03-09 07:51:33  
End at: 2019-03-09 07:52:03  
Local clock offset: -0.078 ms  
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2019-03-09 09:12:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 484.74 Mbit/s  
95th percentile per-packet one-way delay: 157.186 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 484.74 Mbit/s  
95th percentile per-packet one-way delay: 157.186 ms  
Loss rate: 0.07%

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

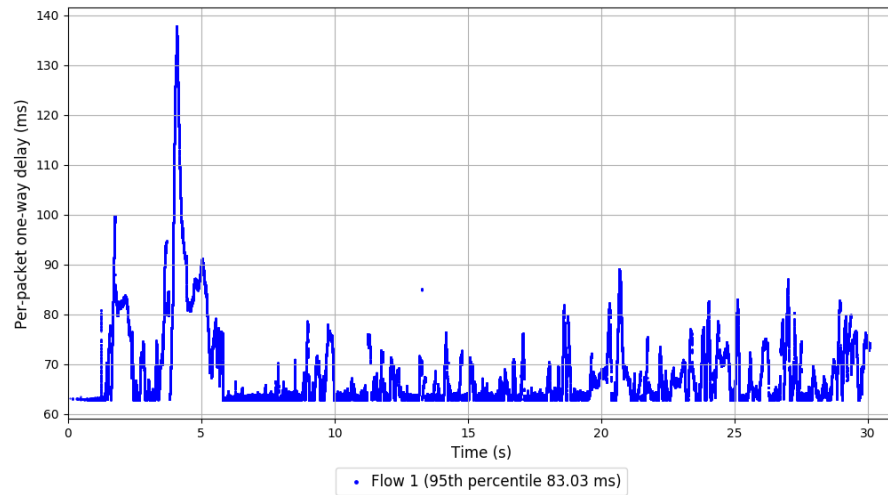
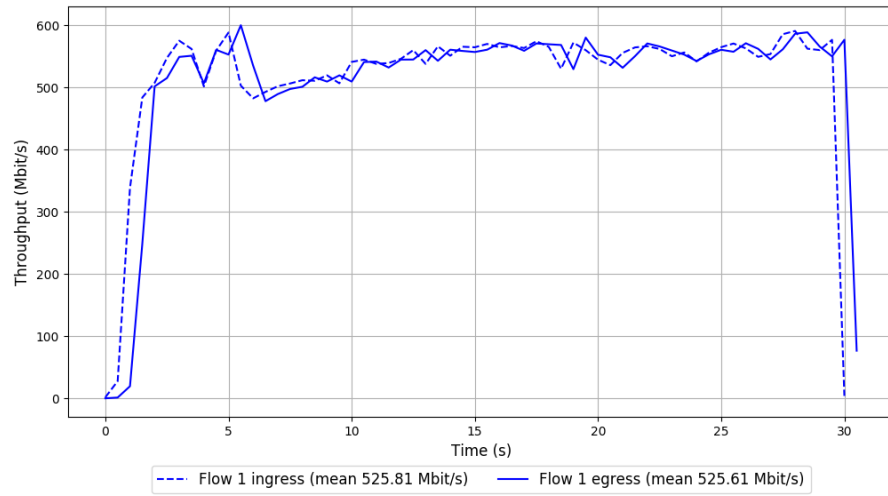


Run 5: Statistics of TCP Cubic

Start at: 2019-03-09 08:22:37  
End at: 2019-03-09 08:23:07  
Local clock offset: -0.028 ms  
Remote clock offset: -0.151 ms

# Below is generated by plot.py at 2019-03-09 09:12:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 525.61 Mbit/s  
95th percentile per-packet one-way delay: 83.031 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 525.61 Mbit/s  
95th percentile per-packet one-way delay: 83.031 ms  
Loss rate: 0.04%

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

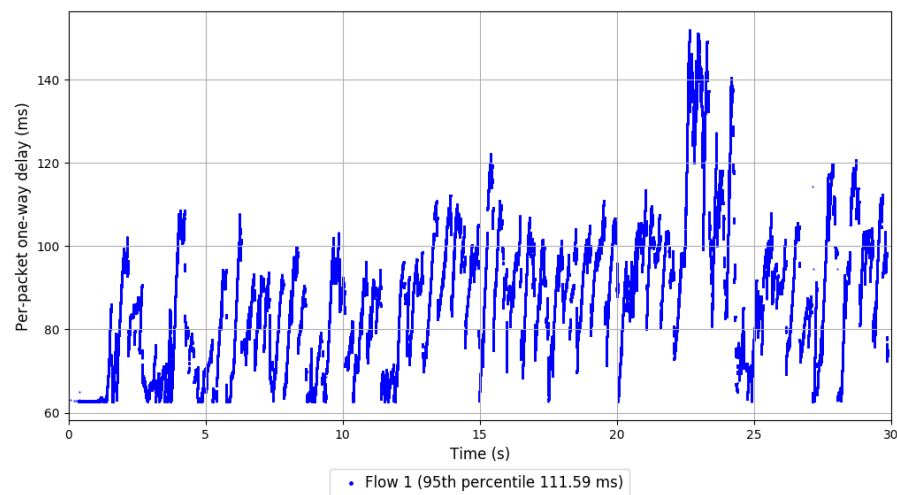
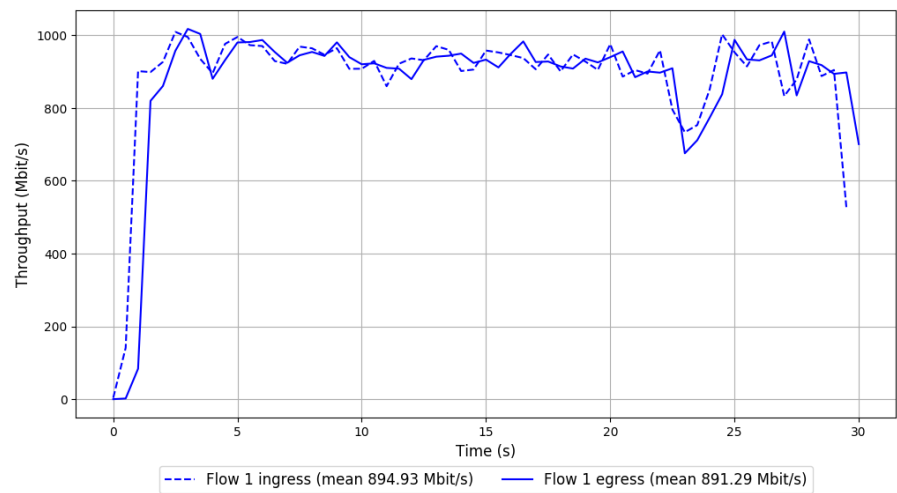


Run 1: Statistics of FillP

Start at: 2019-03-09 06:14:37  
End at: 2019-03-09 06:15:07  
Local clock offset: -0.104 ms  
Remote clock offset: -0.227 ms

# Below is generated by plot.py at 2019-03-09 09:20:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 891.29 Mbit/s  
95th percentile per-packet one-way delay: 111.592 ms  
Loss rate: 0.40%  
-- Flow 1:  
Average throughput: 891.29 Mbit/s  
95th percentile per-packet one-way delay: 111.592 ms  
Loss rate: 0.40%

Run 1: Report of FillP — Data Link



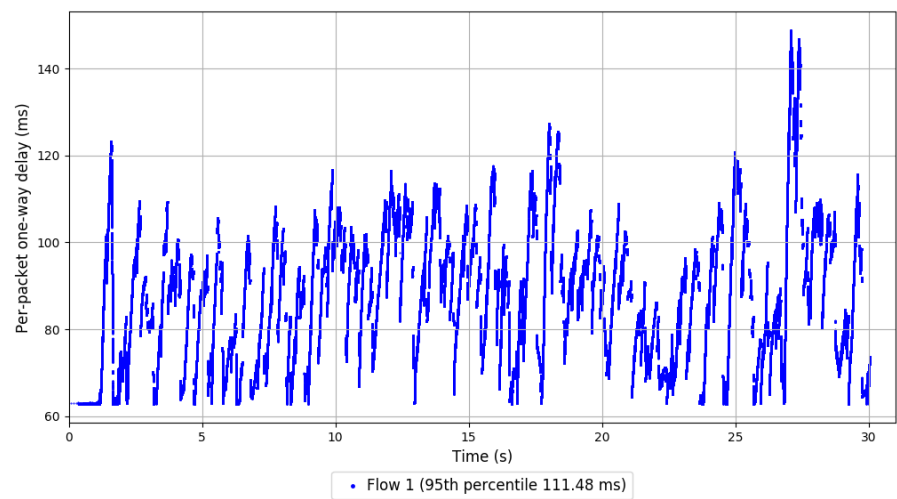
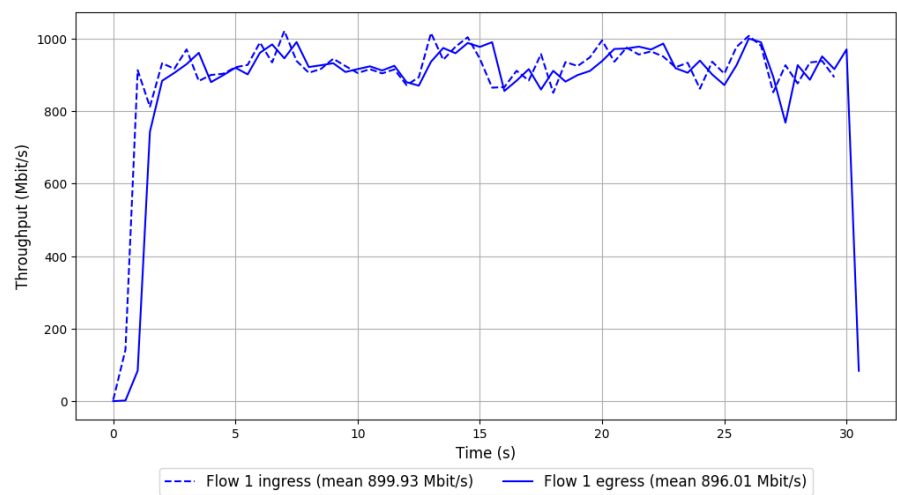


Run 2: Statistics of FillP

Start at: 2019-03-09 06:45:18  
End at: 2019-03-09 06:45:48  
Local clock offset: -0.119 ms  
Remote clock offset: -0.269 ms

# Below is generated by plot.py at 2019-03-09 09:29:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 896.01 Mbit/s  
95th percentile per-packet one-way delay: 111.479 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 896.01 Mbit/s  
95th percentile per-packet one-way delay: 111.479 ms  
Loss rate: 0.43%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-03-09 07:16:06

End at: 2019-03-09 07:16:36

Local clock offset: -0.094 ms

Remote clock offset: 0.047 ms

# Below is generated by plot.py at 2019-03-09 09:29:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 865.41 Mbit/s

95th percentile per-packet one-way delay: 118.995 ms

Loss rate: 0.84%

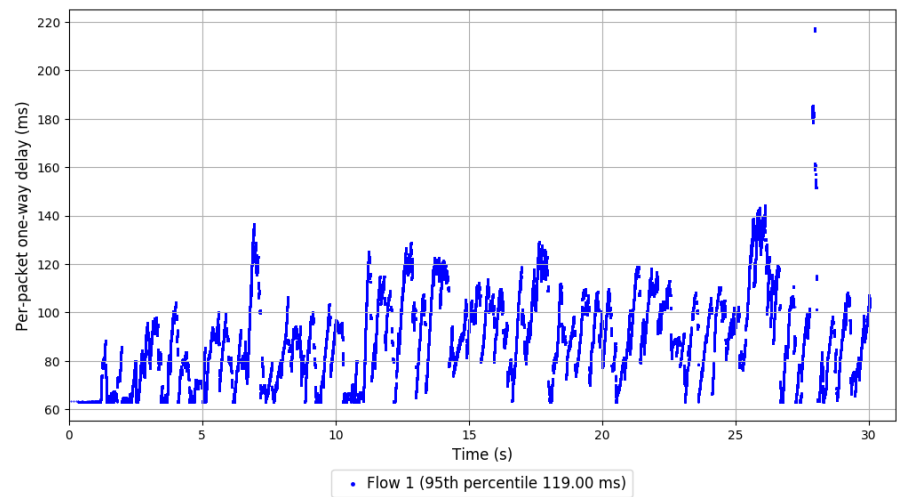
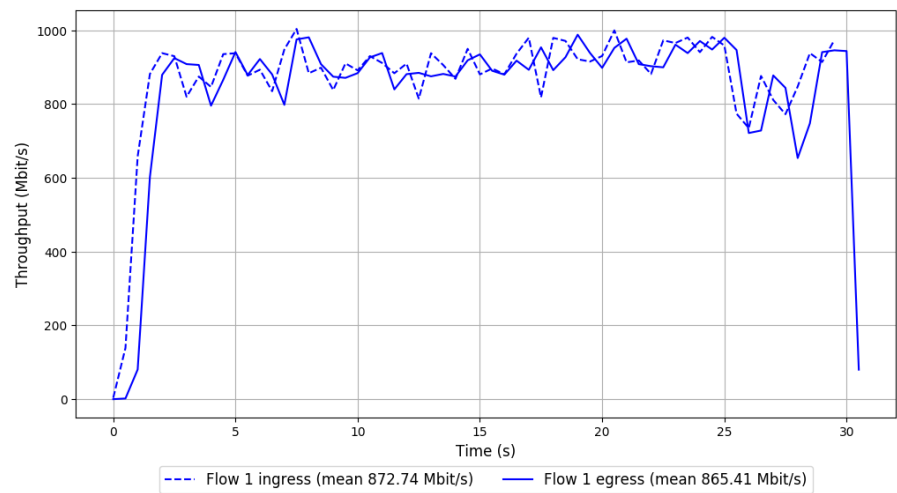
-- Flow 1:

Average throughput: 865.41 Mbit/s

95th percentile per-packet one-way delay: 118.995 ms

Loss rate: 0.84%

Run 3: Report of FillP — Data Link

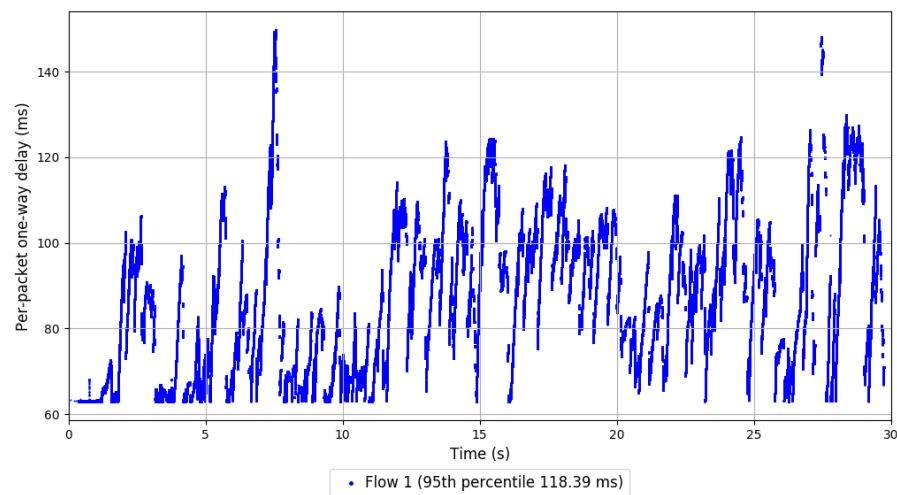
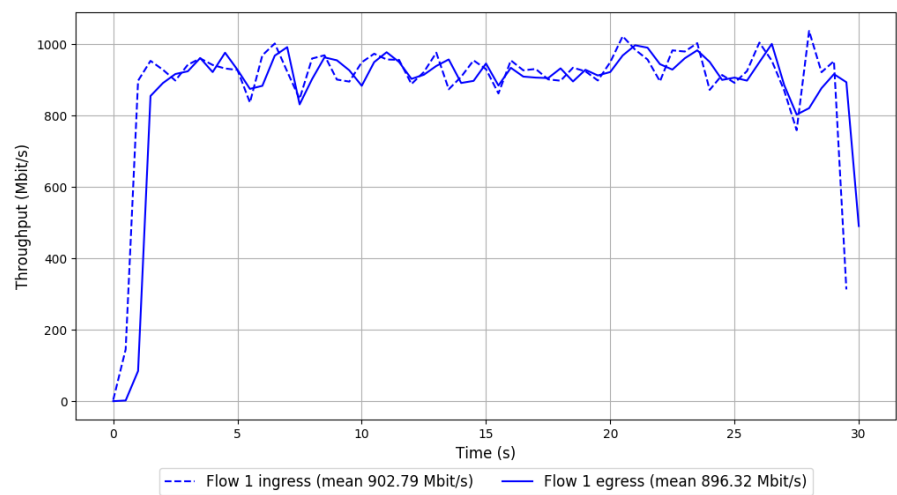


Run 4: Statistics of FillP

Start at: 2019-03-09 07:47:14  
End at: 2019-03-09 07:47:44  
Local clock offset: -0.067 ms  
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2019-03-09 09:30:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 896.32 Mbit/s  
95th percentile per-packet one-way delay: 118.395 ms  
Loss rate: 0.72%  
-- Flow 1:  
Average throughput: 896.32 Mbit/s  
95th percentile per-packet one-way delay: 118.395 ms  
Loss rate: 0.72%

Run 4: Report of FillP — Data Link

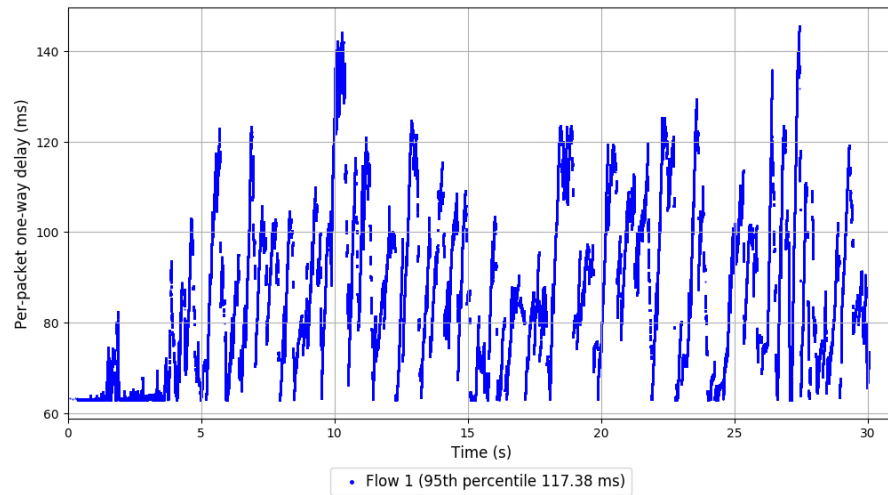
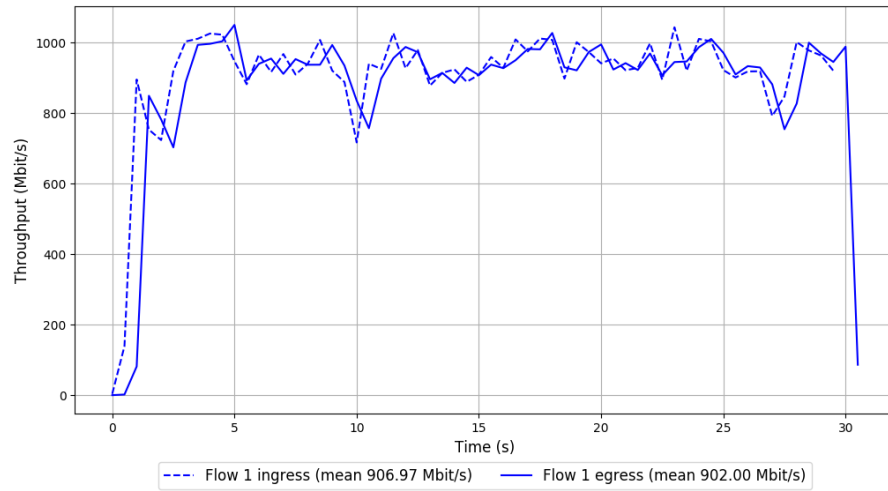


Run 5: Statistics of FillP

Start at: 2019-03-09 08:18:14  
End at: 2019-03-09 08:18:44  
Local clock offset: -0.023 ms  
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2019-03-09 09:30:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 902.00 Mbit/s  
95th percentile per-packet one-way delay: 117.377 ms  
Loss rate: 0.55%  
-- Flow 1:  
Average throughput: 902.00 Mbit/s  
95th percentile per-packet one-way delay: 117.377 ms  
Loss rate: 0.55%

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





Run 1: Statistics of FillP-Sheep

Start at: 2019-03-09 06:12:54

End at: 2019-03-09 06:13:24

Local clock offset: -0.14 ms

Remote clock offset: -0.194 ms

# Below is generated by plot.py at 2019-03-09 09:30:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 870.15 Mbit/s

95th percentile per-packet one-way delay: 94.712 ms

Loss rate: 0.05%

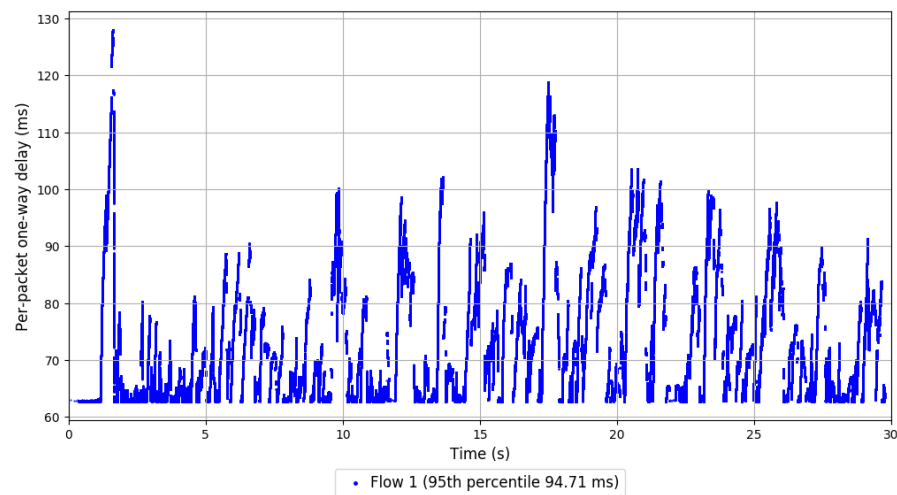
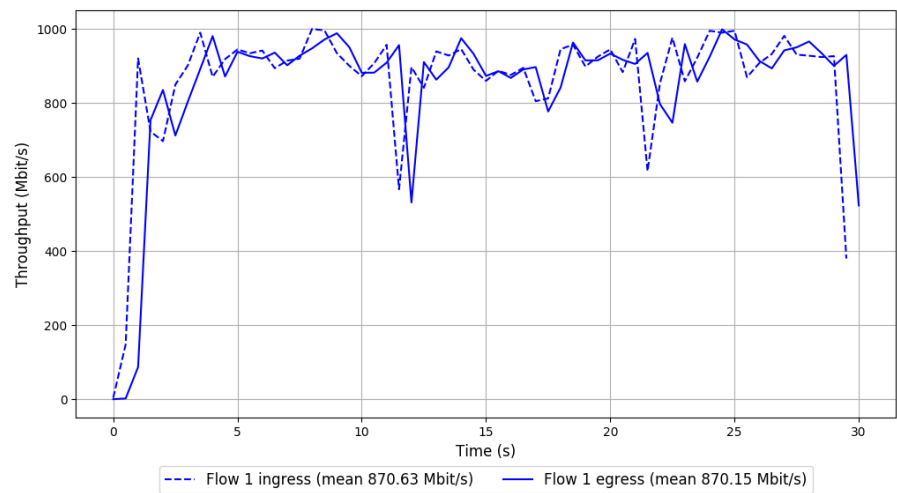
-- Flow 1:

Average throughput: 870.15 Mbit/s

95th percentile per-packet one-way delay: 94.712 ms

Loss rate: 0.05%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-03-09 06:43:34

End at: 2019-03-09 06:44:05

Local clock offset: -0.095 ms

Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2019-03-09 09:30:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 880.30 Mbit/s

95th percentile per-packet one-way delay: 121.730 ms

Loss rate: 0.99%

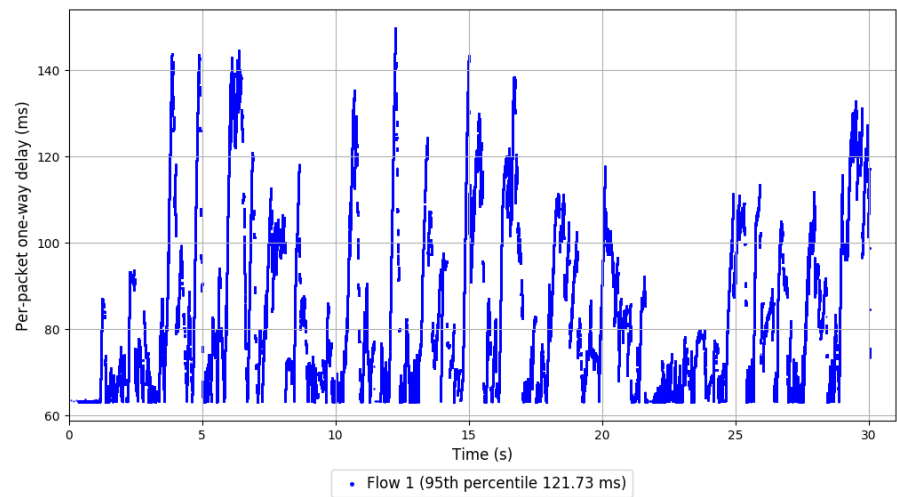
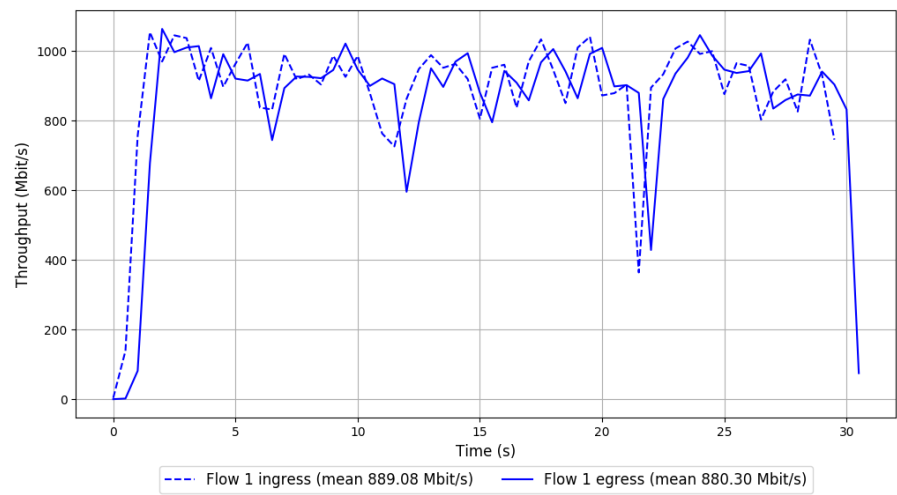
-- Flow 1:

Average throughput: 880.30 Mbit/s

95th percentile per-packet one-way delay: 121.730 ms

Loss rate: 0.99%

Run 2: Report of FillP-Sheep — Data Link

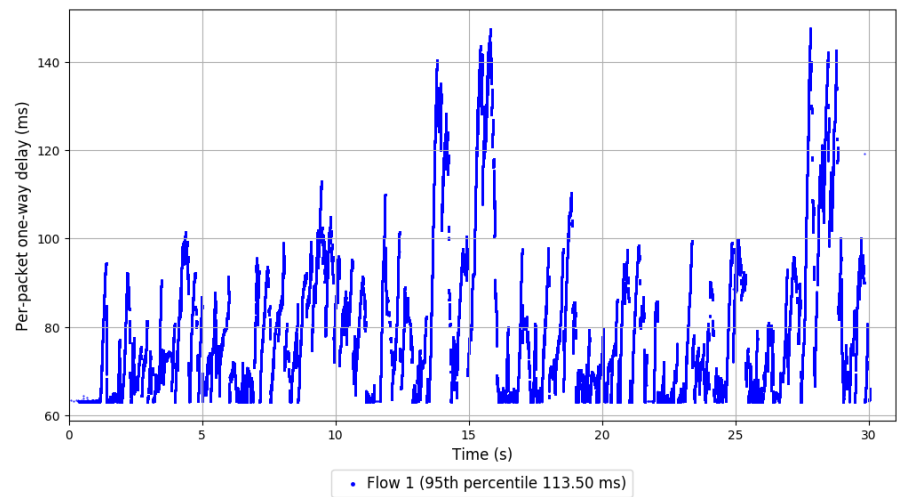
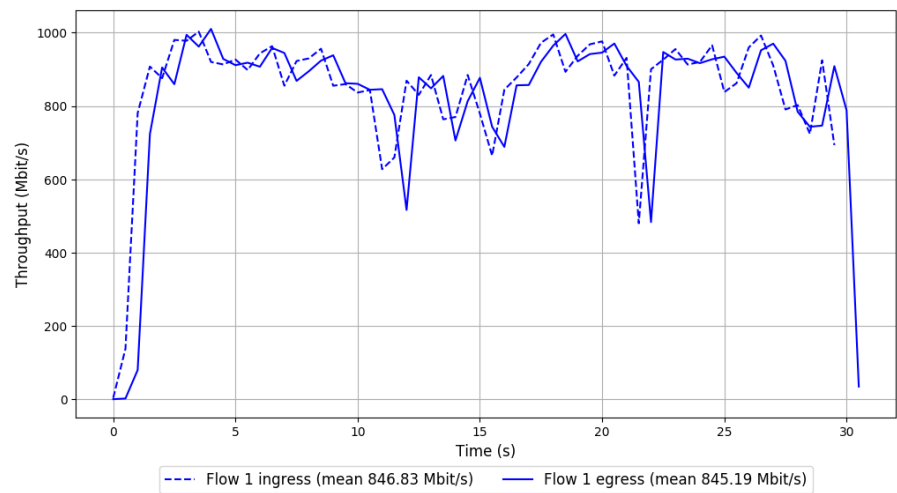


Run 3: Statistics of FillP-Sheep

Start at: 2019-03-09 07:14:24  
End at: 2019-03-09 07:14:54  
Local clock offset: -0.089 ms  
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2019-03-09 09:30:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 845.19 Mbit/s  
95th percentile per-packet one-way delay: 113.500 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 845.19 Mbit/s  
95th percentile per-packet one-way delay: 113.500 ms  
Loss rate: 0.19%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-03-09 07:45:29

End at: 2019-03-09 07:46:00

Local clock offset: -0.107 ms

Remote clock offset: 0.693 ms

# Below is generated by plot.py at 2019-03-09 09:40:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 861.97 Mbit/s

95th percentile per-packet one-way delay: 106.183 ms

Loss rate: 0.36%

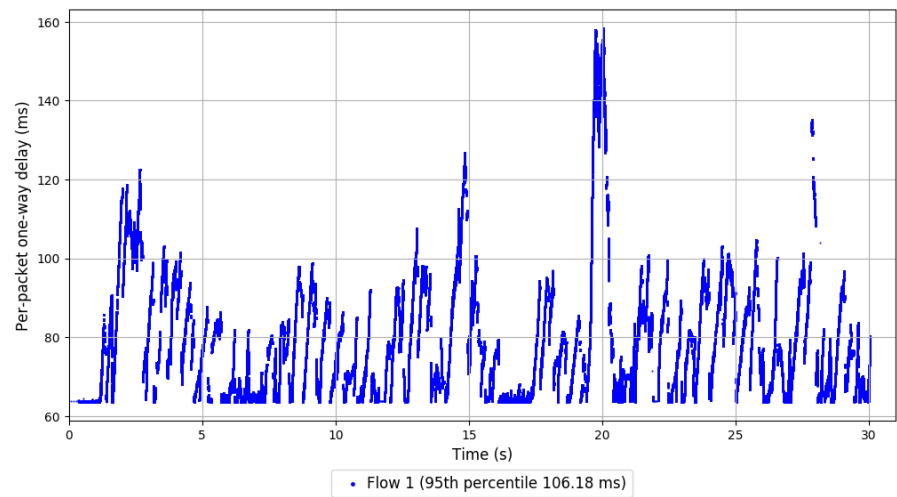
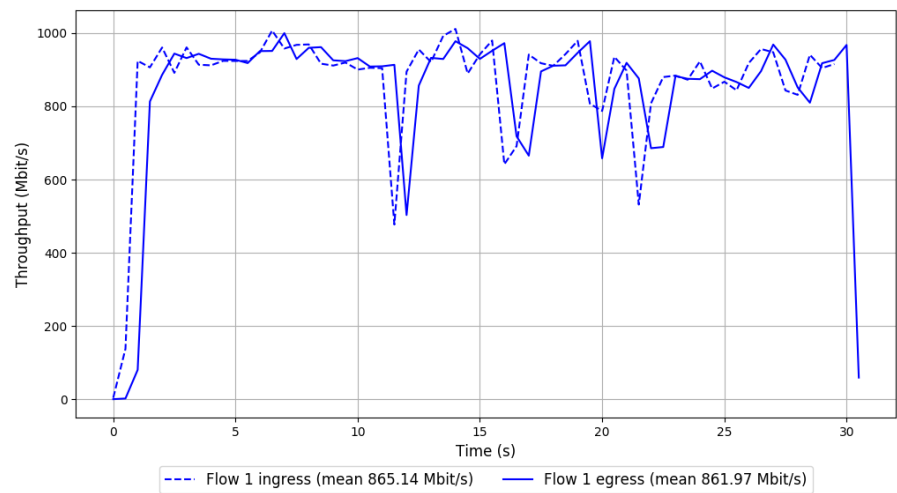
-- Flow 1:

Average throughput: 861.97 Mbit/s

95th percentile per-packet one-way delay: 106.183 ms

Loss rate: 0.36%

Run 4: Report of FillP-Sheep — Data Link





Run 5: Statistics of FillP-Sheep

Start at: 2019-03-09 08:16:34

End at: 2019-03-09 08:17:04

Local clock offset: -0.019 ms

Remote clock offset: 0.043 ms

# Below is generated by plot.py at 2019-03-09 09:46:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 835.81 Mbit/s

95th percentile per-packet one-way delay: 110.859 ms

Loss rate: 0.50%

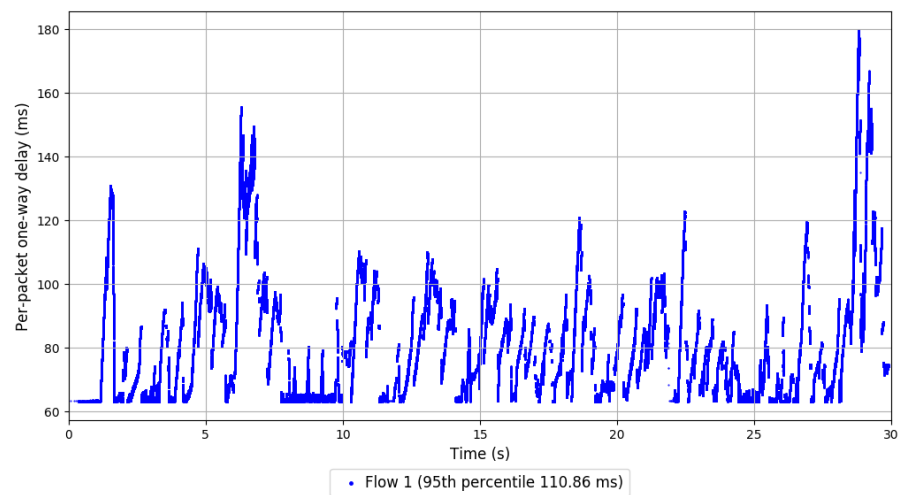
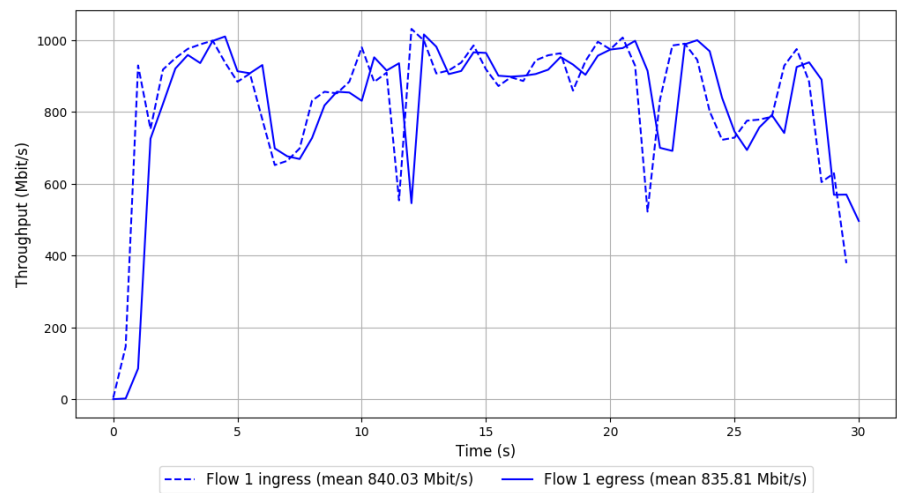
-- Flow 1:

Average throughput: 835.81 Mbit/s

95th percentile per-packet one-way delay: 110.859 ms

Loss rate: 0.50%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

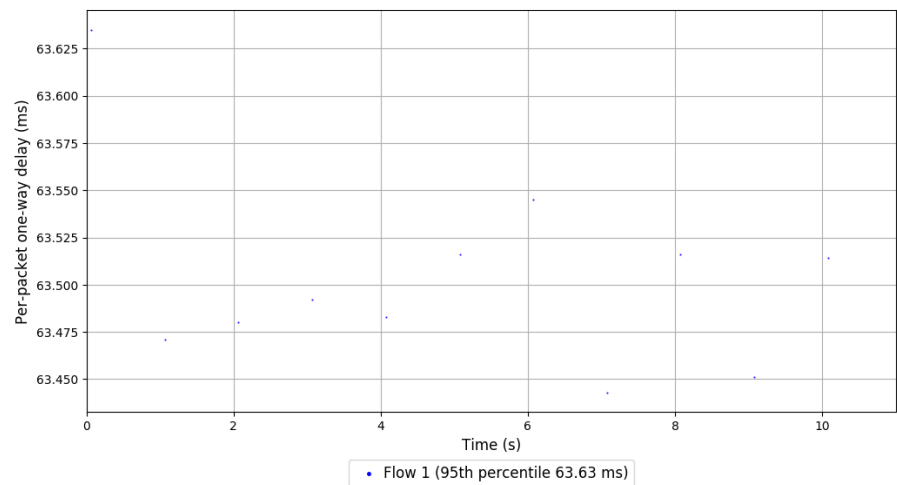
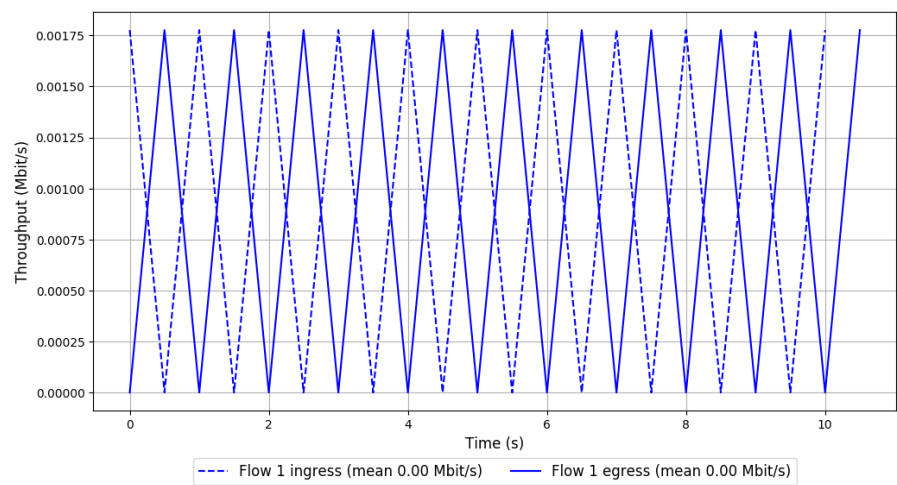
Start at: 2019-03-09 06:17:29

End at: 2019-03-09 06:17:59

Local clock offset: -0.148 ms

Remote clock offset: 0.007 ms

Run 1: Report of Indigo — Data Link

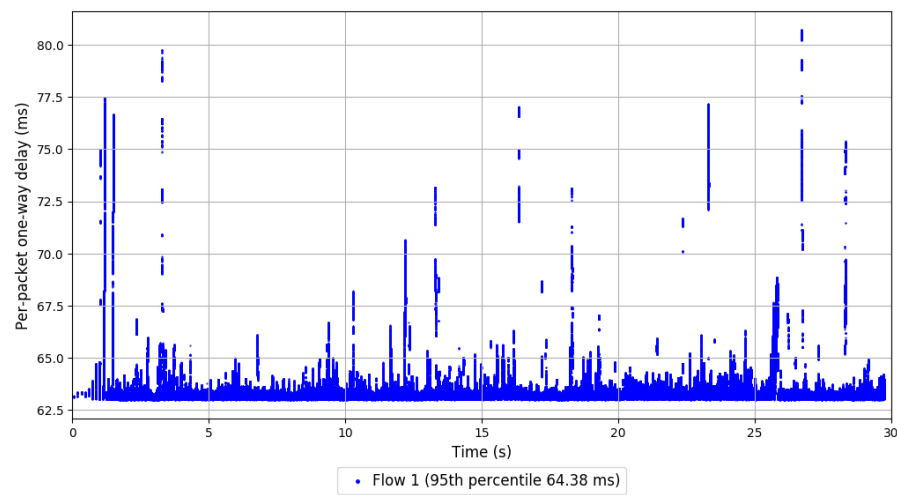
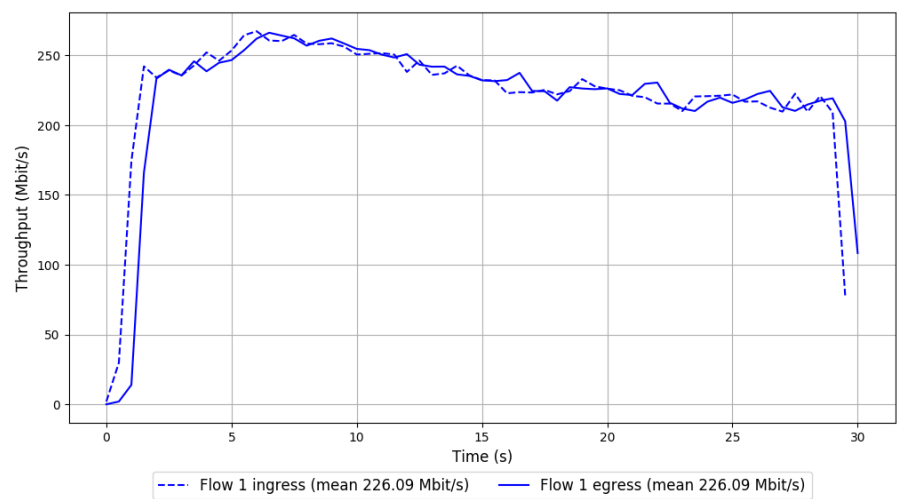


Run 2: Statistics of Indigo

Start at: 2019-03-09 06:48:10  
End at: 2019-03-09 06:48:40  
Local clock offset: -0.112 ms  
Remote clock offset: -0.176 ms

# Below is generated by plot.py at 2019-03-09 09:46:09  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 226.09 Mbit/s  
95th percentile per-packet one-way delay: 64.375 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 226.09 Mbit/s  
95th percentile per-packet one-way delay: 64.375 ms  
Loss rate: 0.00%

Run 2: Report of Indigo — Data Link

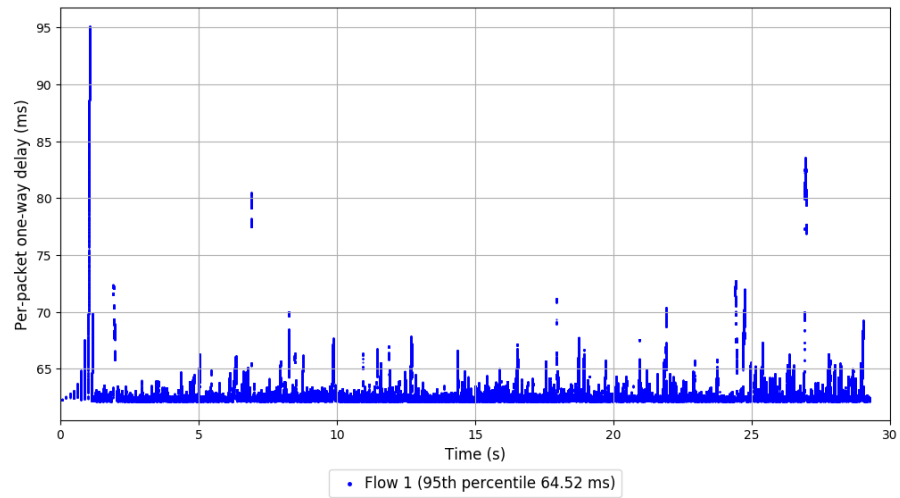
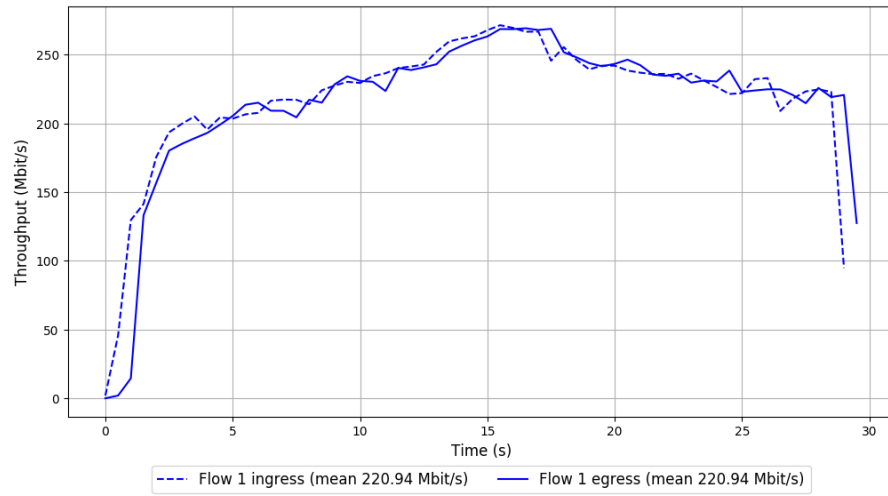


Run 3: Statistics of Indigo

Start at: 2019-03-09 07:18:56  
End at: 2019-03-09 07:19:26  
Local clock offset: -0.105 ms  
Remote clock offset: -0.992 ms

# Below is generated by plot.py at 2019-03-09 09:46:09  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 220.94 Mbit/s  
95th percentile per-packet one-way delay: 64.522 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 220.94 Mbit/s  
95th percentile per-packet one-way delay: 64.522 ms  
Loss rate: 0.00%

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





Run 4: Statistics of Indigo

Start at: 2019-03-09 07:50:05

End at: 2019-03-09 07:50:35

Local clock offset: -0.062 ms

Remote clock offset: 0.142 ms

# Below is generated by plot.py at 2019-03-09 09:46:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 224.91 Mbit/s

95th percentile per-packet one-way delay: 65.057 ms

Loss rate: 0.00%

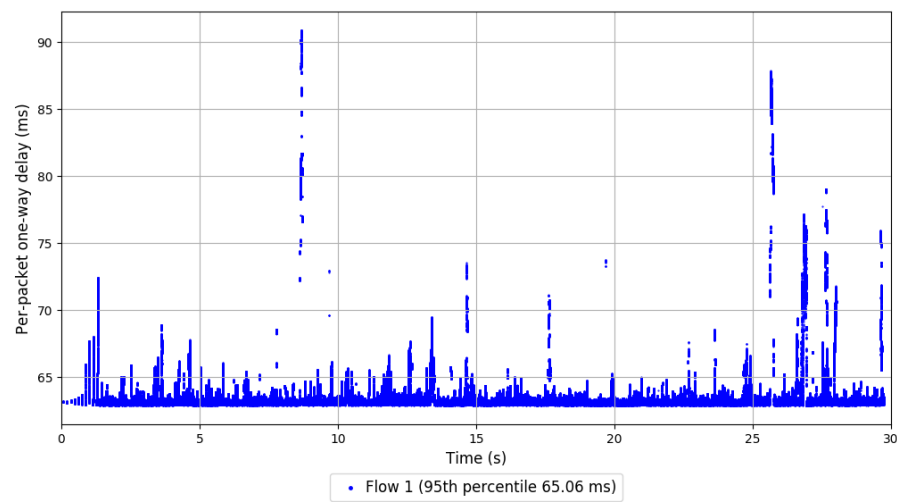
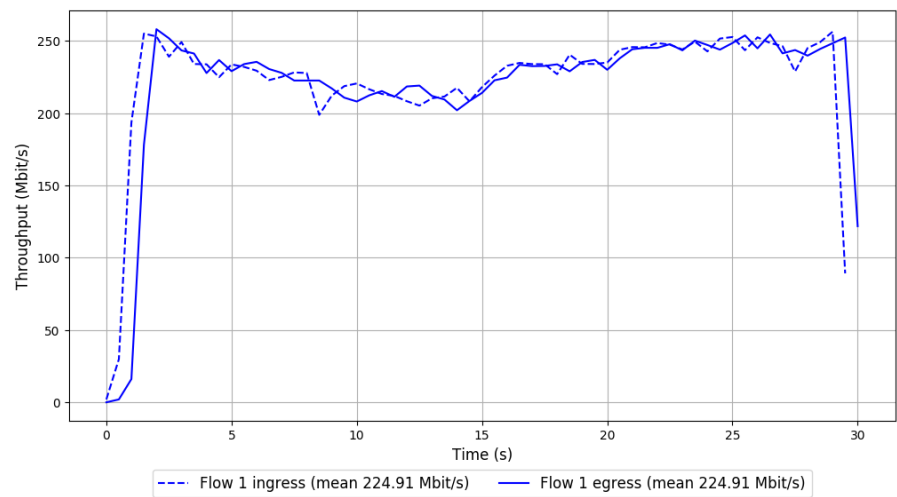
-- Flow 1:

Average throughput: 224.91 Mbit/s

95th percentile per-packet one-way delay: 65.057 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link

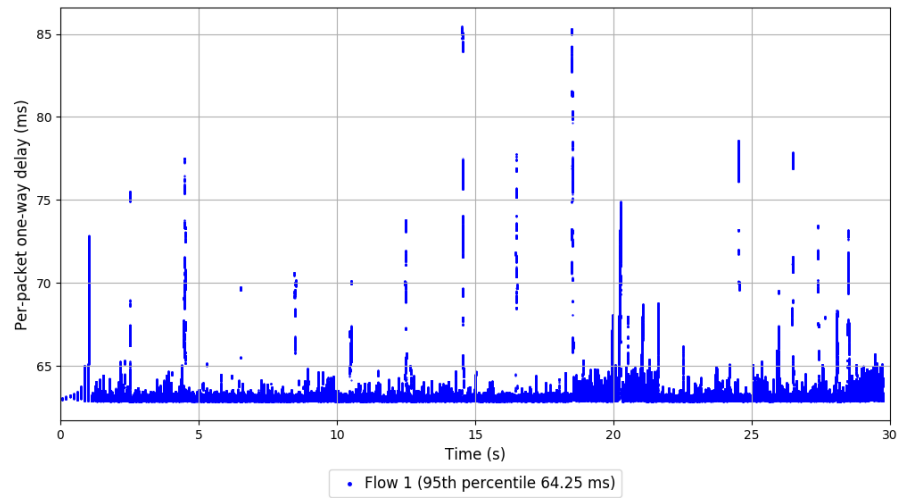
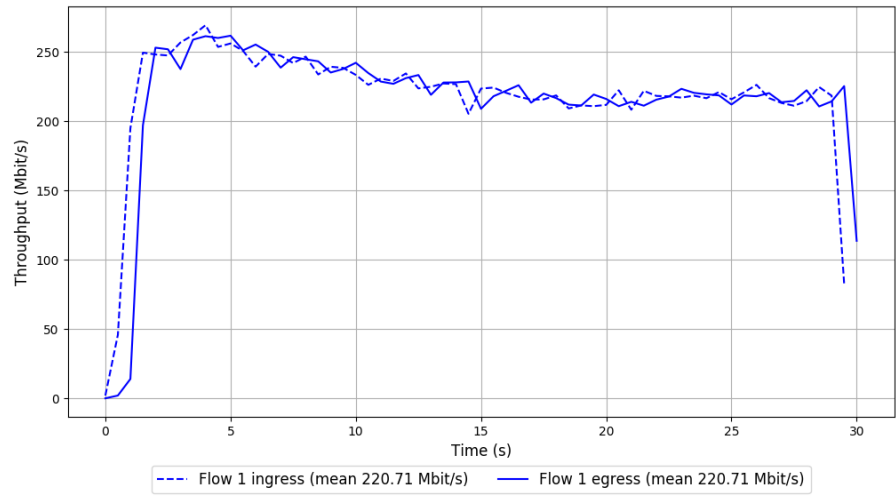


Run 5: Statistics of Indigo

Start at: 2019-03-09 08:21:07  
End at: 2019-03-09 08:21:37  
Local clock offset: 0.028 ms  
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2019-03-09 09:46:09  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 220.71 Mbit/s  
95th percentile per-packet one-way delay: 64.250 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 220.71 Mbit/s  
95th percentile per-packet one-way delay: 64.250 ms  
Loss rate: 0.00%

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

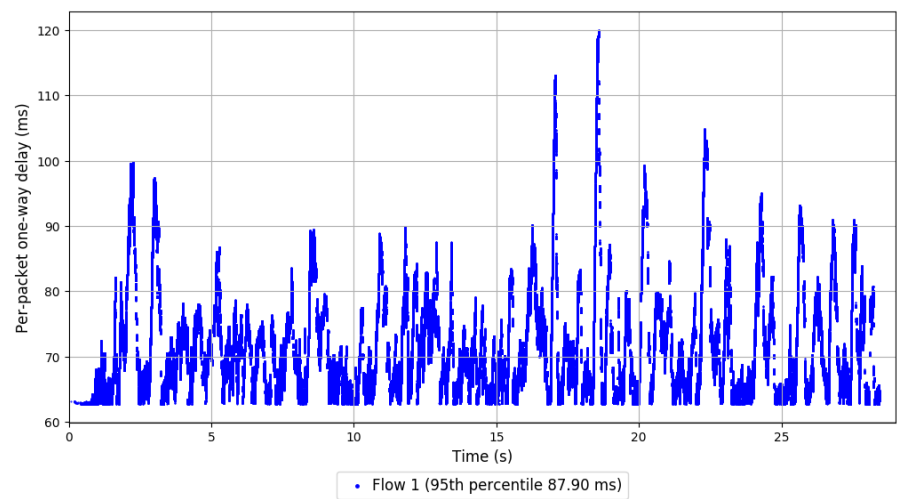
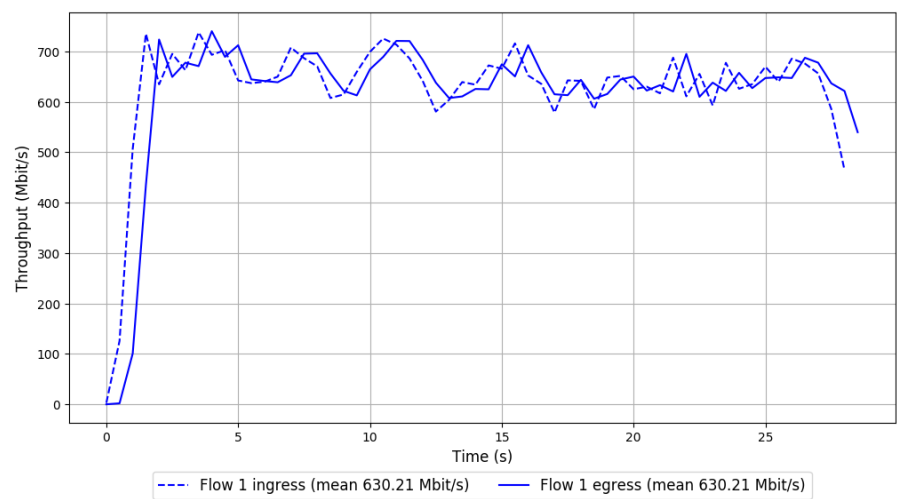


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-03-09 06:24:54  
End at: 2019-03-09 06:25:24  
Local clock offset: -0.142 ms  
Remote clock offset: -0.218 ms

# Below is generated by plot.py at 2019-03-09 09:46:09  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 630.21 Mbit/s  
95th percentile per-packet one-way delay: 87.900 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 630.21 Mbit/s  
95th percentile per-packet one-way delay: 87.900 ms  
Loss rate: 0.00%

Run 1: Report of Indigo-MusesC3 — Data Link

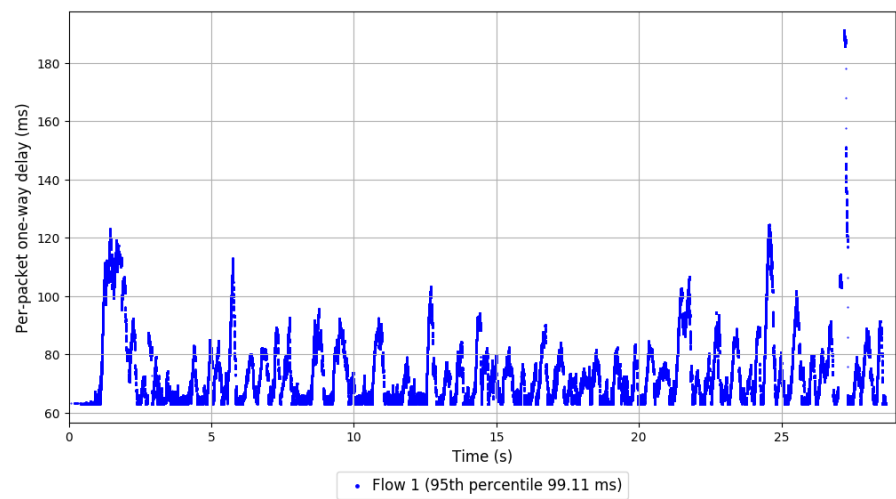
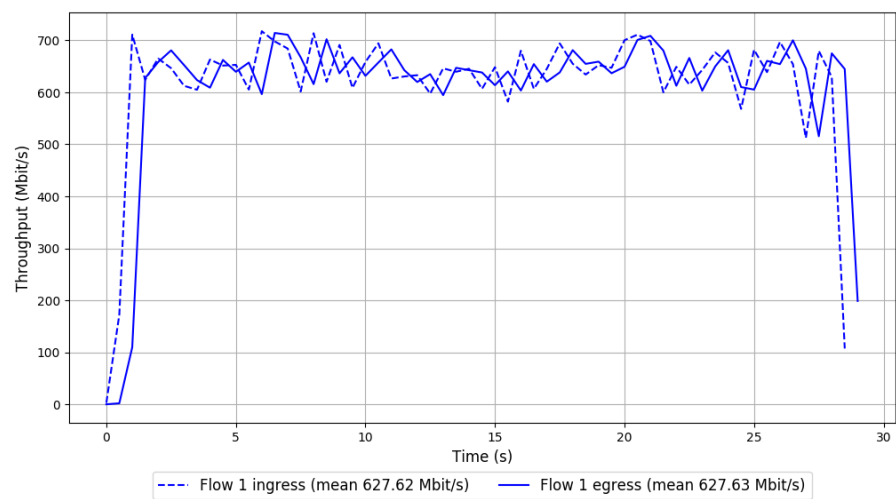


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-03-09 06:56:00  
End at: 2019-03-09 06:56:30  
Local clock offset: -0.073 ms  
Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2019-03-09 09:46:09  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 627.63 Mbit/s  
95th percentile per-packet one-way delay: 99.111 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 627.63 Mbit/s  
95th percentile per-packet one-way delay: 99.111 ms  
Loss rate: 0.00%

Run 2: Report of Indigo-MusesC3 — Data Link



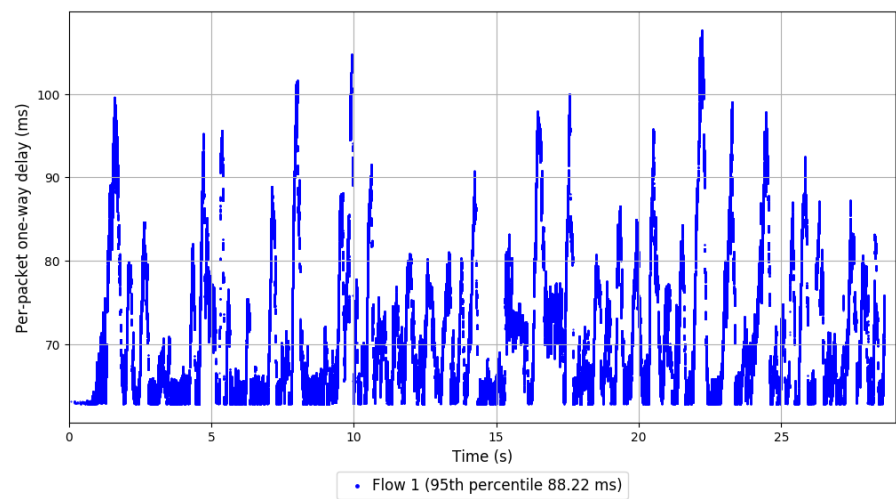
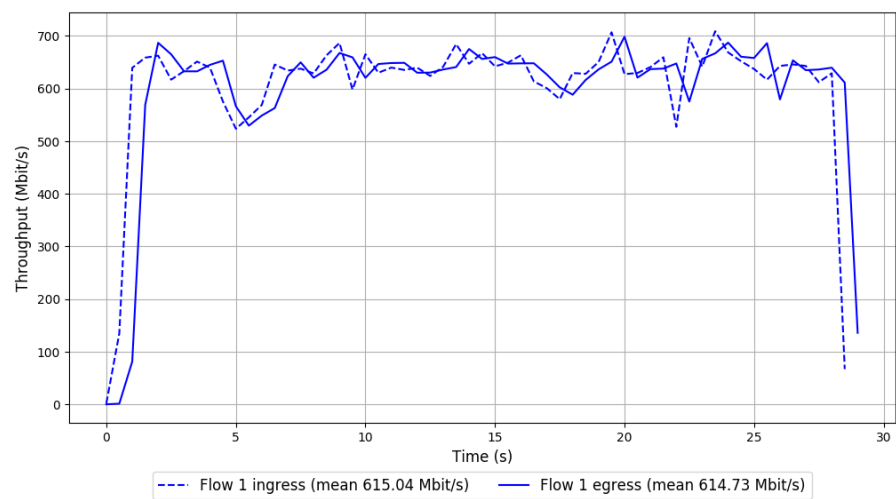


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-03-09 07:26:42  
End at: 2019-03-09 07:27:12  
Local clock offset: -0.08 ms  
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2019-03-09 09:46:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 614.73 Mbit/s  
95th percentile per-packet one-way delay: 88.223 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 614.73 Mbit/s  
95th percentile per-packet one-way delay: 88.223 ms  
Loss rate: 0.05%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-03-09 07:57:52

End at: 2019-03-09 07:58:22

Local clock offset: -0.031 ms

Remote clock offset: 0.087 ms

# Below is generated by plot.py at 2019-03-09 09:46:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 631.41 Mbit/s

95th percentile per-packet one-way delay: 93.404 ms

Loss rate: 0.00%

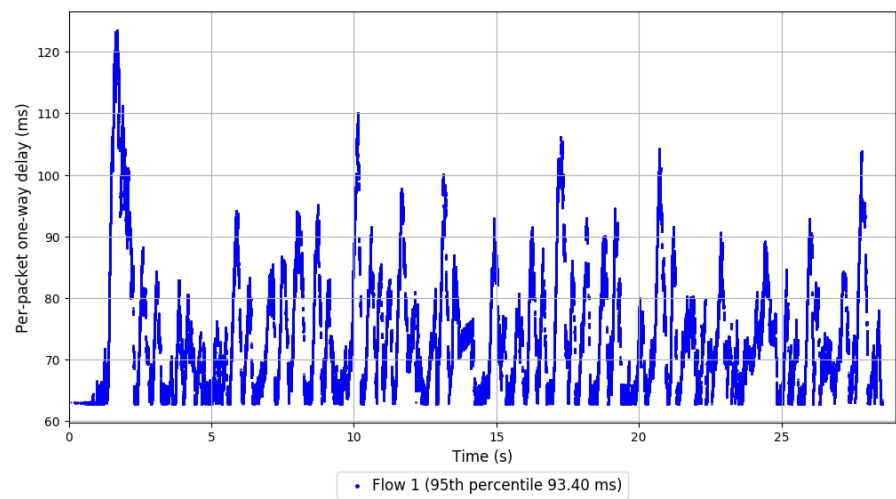
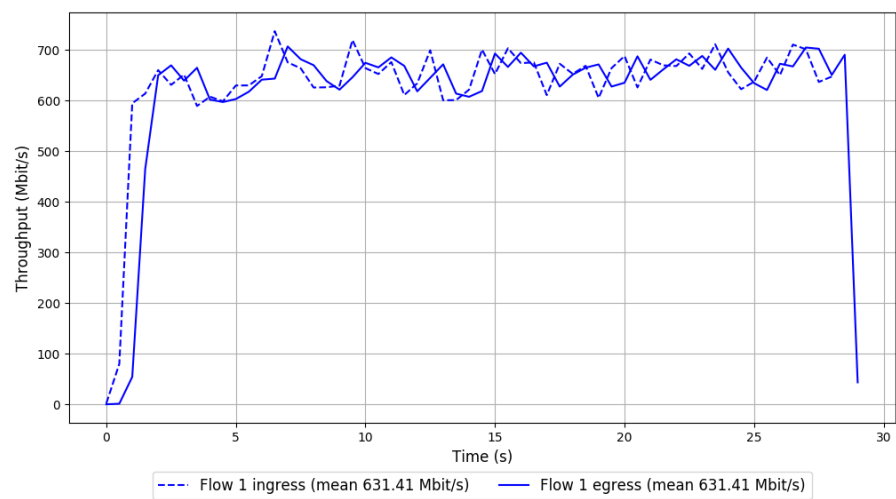
-- Flow 1:

Average throughput: 631.41 Mbit/s

95th percentile per-packet one-way delay: 93.404 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesC3 — Data Link

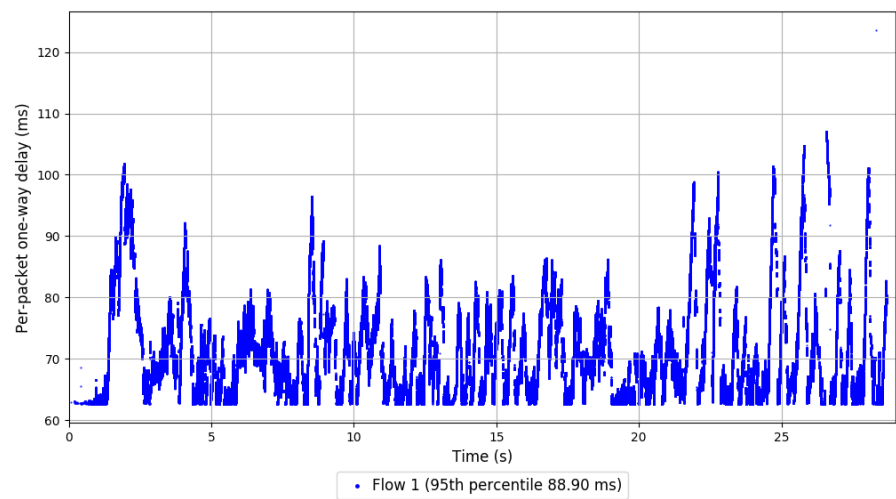
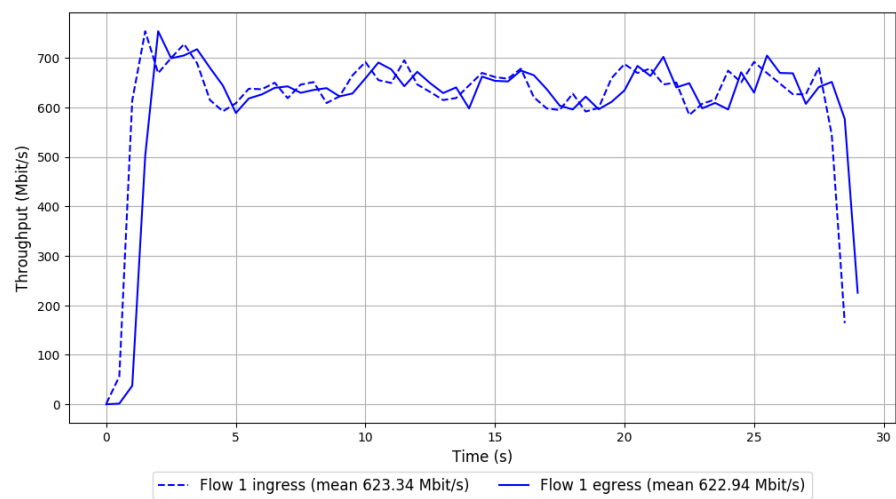


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-03-09 08:28:59  
End at: 2019-03-09 08:29:29  
Local clock offset: -0.065 ms  
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2019-03-09 09:47:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 622.94 Mbit/s  
95th percentile per-packet one-way delay: 88.900 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 622.94 Mbit/s  
95th percentile per-packet one-way delay: 88.900 ms  
Loss rate: 0.07%

Run 5: Report of Indigo-MusesC3 — Data Link

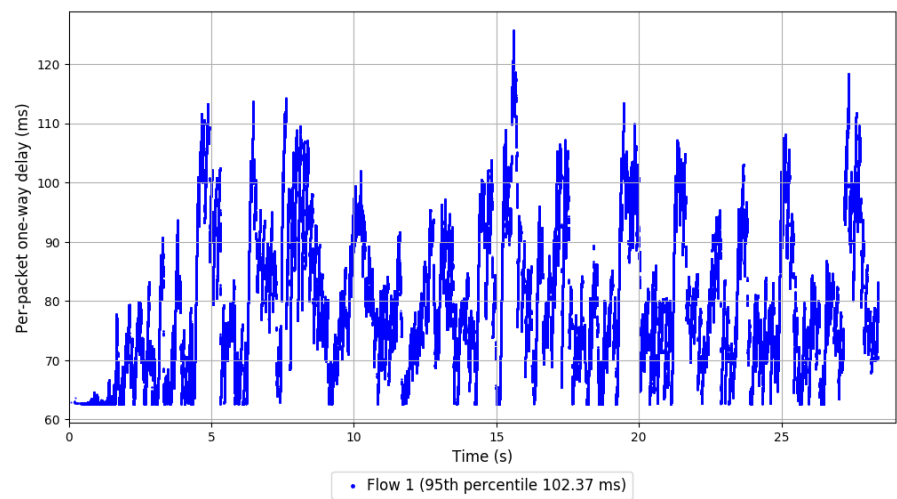
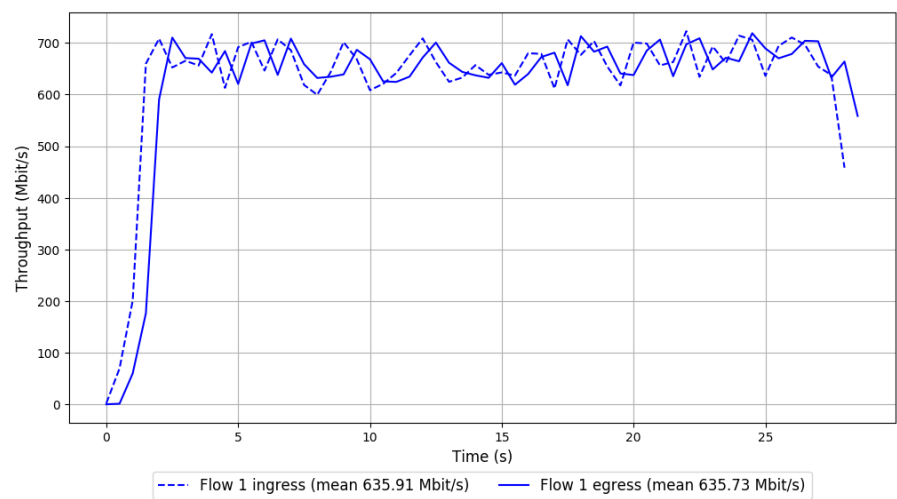


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-03-09 06:27:43  
End at: 2019-03-09 06:28:13  
Local clock offset: -0.099 ms  
Remote clock offset: -0.282 ms

# Below is generated by plot.py at 2019-03-09 09:47:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 635.73 Mbit/s  
95th percentile per-packet one-way delay: 102.368 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 635.73 Mbit/s  
95th percentile per-packet one-way delay: 102.368 ms  
Loss rate: 0.01%

Run 1: Report of Indigo-MusesC5 — Data Link



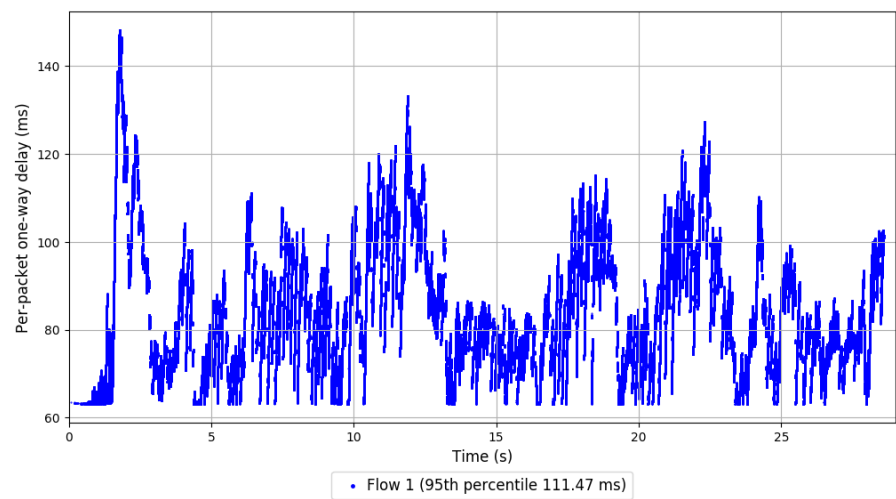
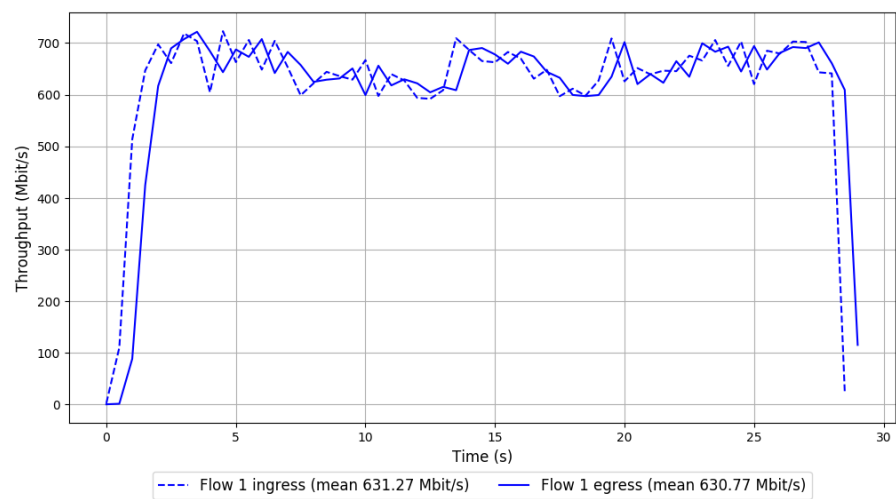


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-03-09 06:58:47  
End at: 2019-03-09 06:59:17  
Local clock offset: -0.112 ms  
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2019-03-09 09:50:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 630.77 Mbit/s  
95th percentile per-packet one-way delay: 111.471 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 630.77 Mbit/s  
95th percentile per-packet one-way delay: 111.471 ms  
Loss rate: 0.08%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-03-09 07:29:29

End at: 2019-03-09 07:29:59

Local clock offset: -0.075 ms

Remote clock offset: 0.025 ms

# Below is generated by plot.py at 2019-03-09 09:51:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 632.72 Mbit/s

95th percentile per-packet one-way delay: 147.878 ms

Loss rate: 0.23%

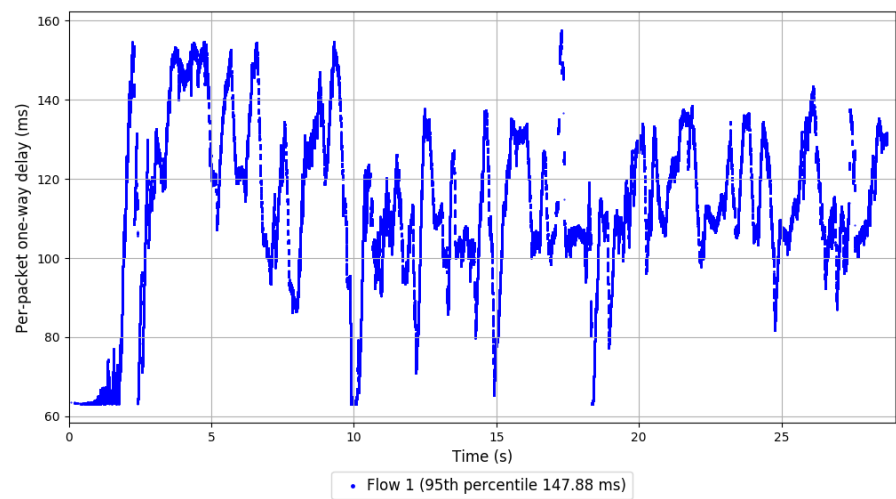
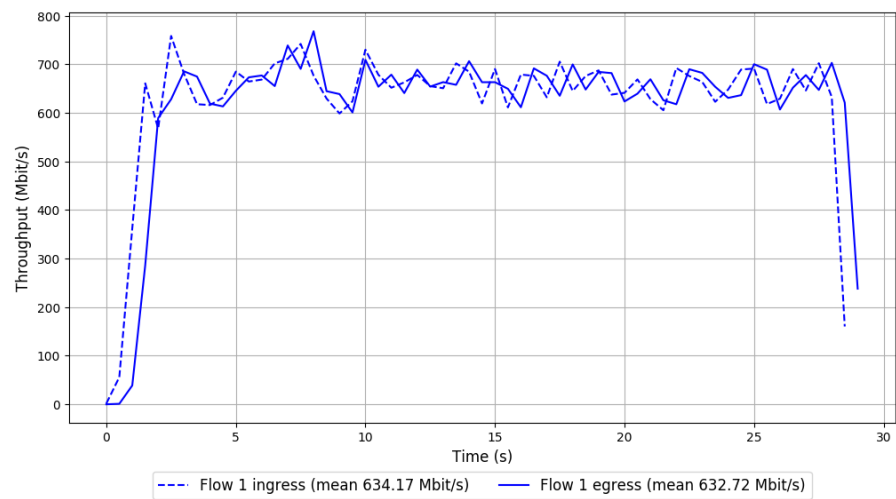
-- Flow 1:

Average throughput: 632.72 Mbit/s

95th percentile per-packet one-way delay: 147.878 ms

Loss rate: 0.23%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-03-09 08:00:40

End at: 2019-03-09 08:01:10

Local clock offset: -0.016 ms

Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2019-03-09 09:51:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 596.04 Mbit/s

95th percentile per-packet one-way delay: 133.589 ms

Loss rate: 0.31%

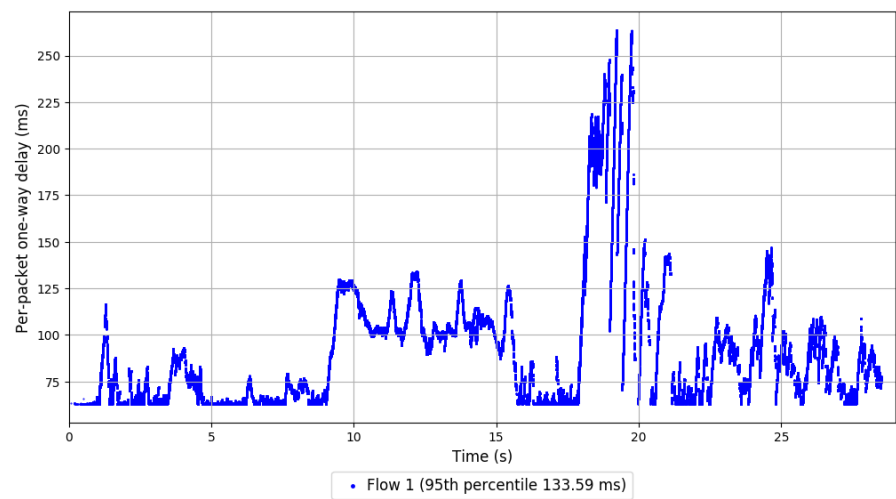
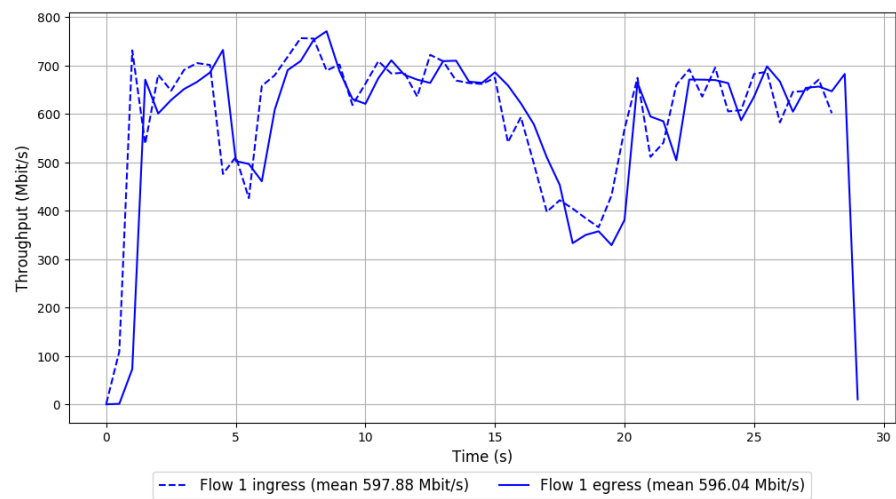
-- Flow 1:

Average throughput: 596.04 Mbit/s

95th percentile per-packet one-way delay: 133.589 ms

Loss rate: 0.31%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-03-09 08:31:46

End at: 2019-03-09 08:32:16

Local clock offset: -0.075 ms

Remote clock offset: 0.113 ms

# Below is generated by plot.py at 2019-03-09 09:55:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 590.49 Mbit/s

95th percentile per-packet one-way delay: 100.066 ms

Loss rate: 0.03%

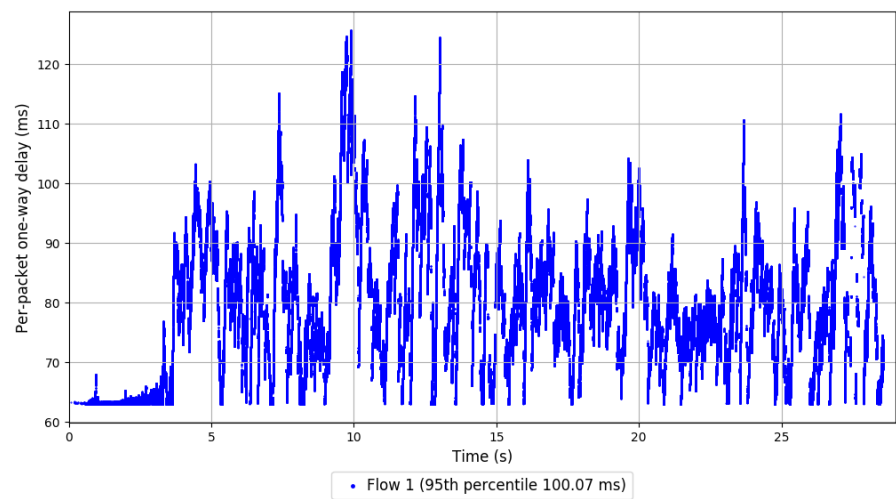
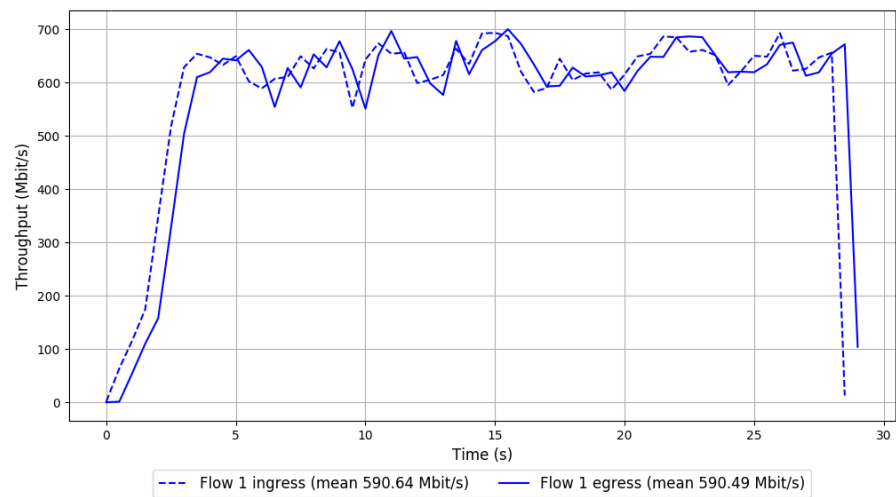
-- Flow 1:

Average throughput: 590.49 Mbit/s

95th percentile per-packet one-way delay: 100.066 ms

Loss rate: 0.03%

Run 5: Report of Indigo-MusesC5 — Data Link



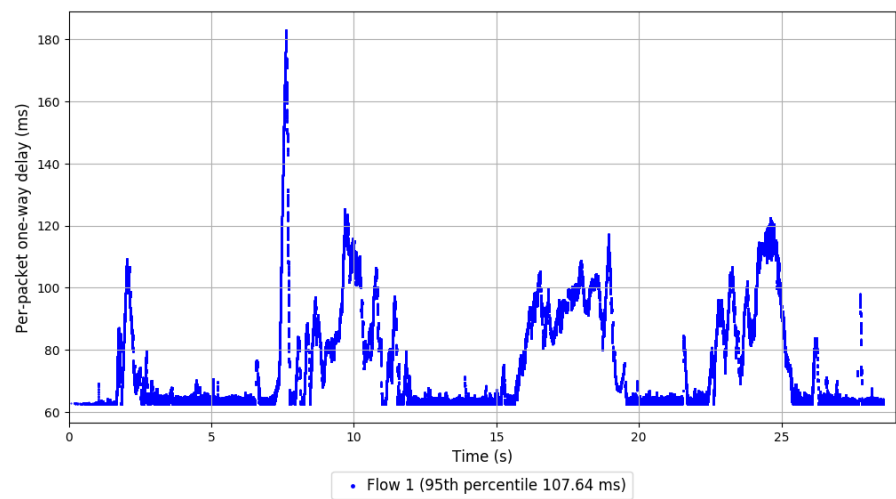
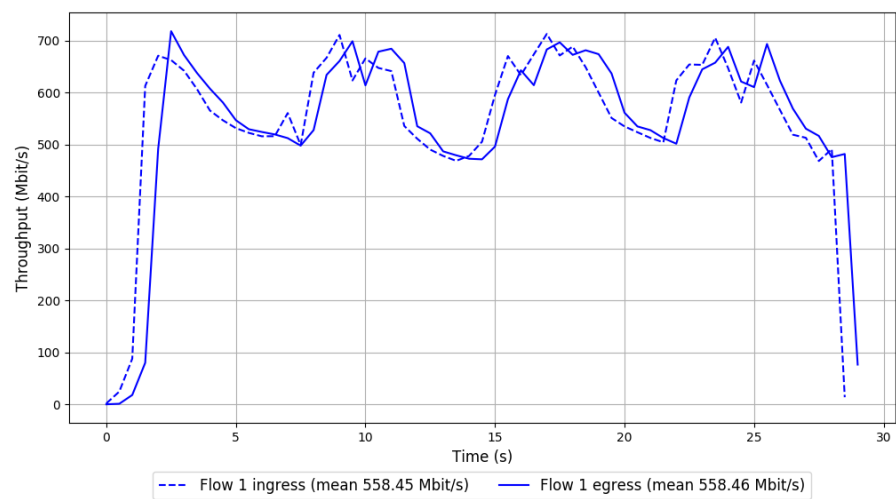


Run 1: Statistics of Indigo-MusesD

Start at: 2019-03-09 06:36:41  
End at: 2019-03-09 06:37:11  
Local clock offset: -0.098 ms  
Remote clock offset: -0.325 ms

# Below is generated by plot.py at 2019-03-09 09:56:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 558.46 Mbit/s  
95th percentile per-packet one-way delay: 107.636 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 558.46 Mbit/s  
95th percentile per-packet one-way delay: 107.636 ms  
Loss rate: 0.00%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-03-09 07:07:27

End at: 2019-03-09 07:07:57

Local clock offset: -0.062 ms

Remote clock offset: -0.114 ms

# Below is generated by plot.py at 2019-03-09 09:57:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 619.49 Mbit/s

95th percentile per-packet one-way delay: 106.423 ms

Loss rate: 0.00%

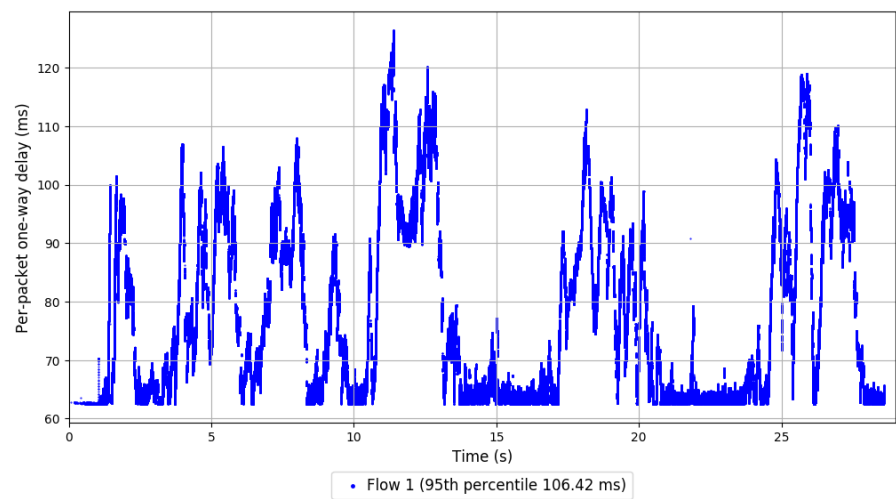
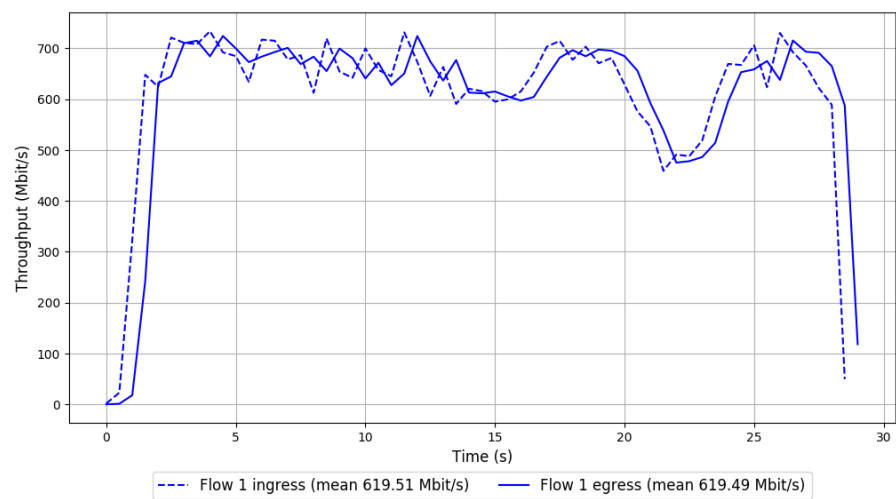
-- Flow 1:

Average throughput: 619.49 Mbit/s

95th percentile per-packet one-way delay: 106.423 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-03-09 07:38:32

End at: 2019-03-09 07:39:02

Local clock offset: -0.061 ms

Remote clock offset: 0.04 ms

# Below is generated by plot.py at 2019-03-09 09:57:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 569.01 Mbit/s

95th percentile per-packet one-way delay: 109.112 ms

Loss rate: 0.00%

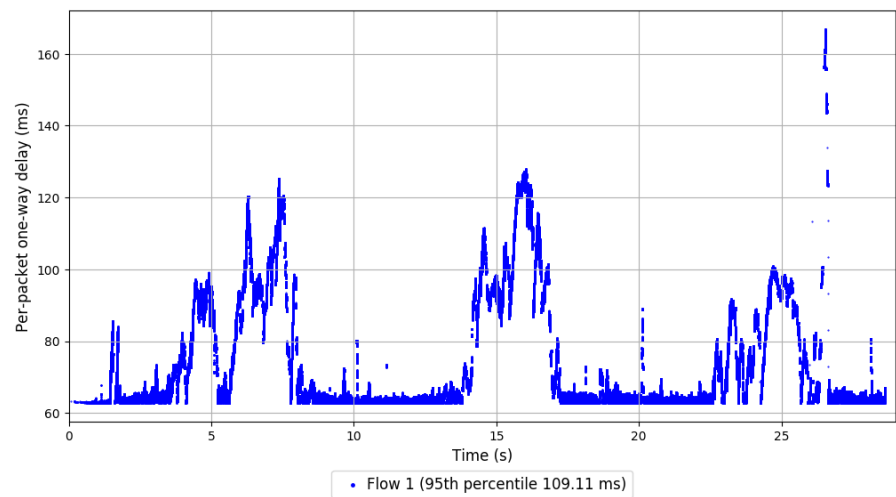
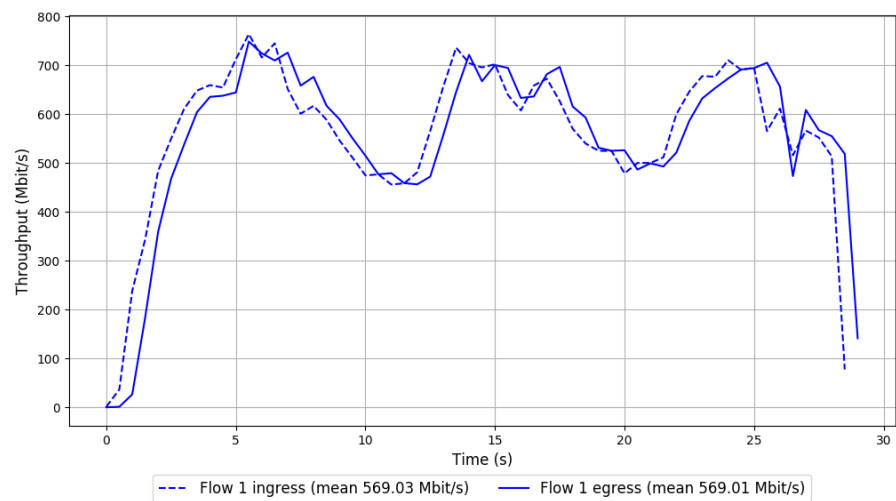
-- Flow 1:

Average throughput: 569.01 Mbit/s

95th percentile per-packet one-way delay: 109.112 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-03-09 08:09:39

End at: 2019-03-09 08:10:09

Local clock offset: 0.033 ms

Remote clock offset: 0.124 ms

# Below is generated by plot.py at 2019-03-09 09:57:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 569.07 Mbit/s

95th percentile per-packet one-way delay: 113.626 ms

Loss rate: 0.01%

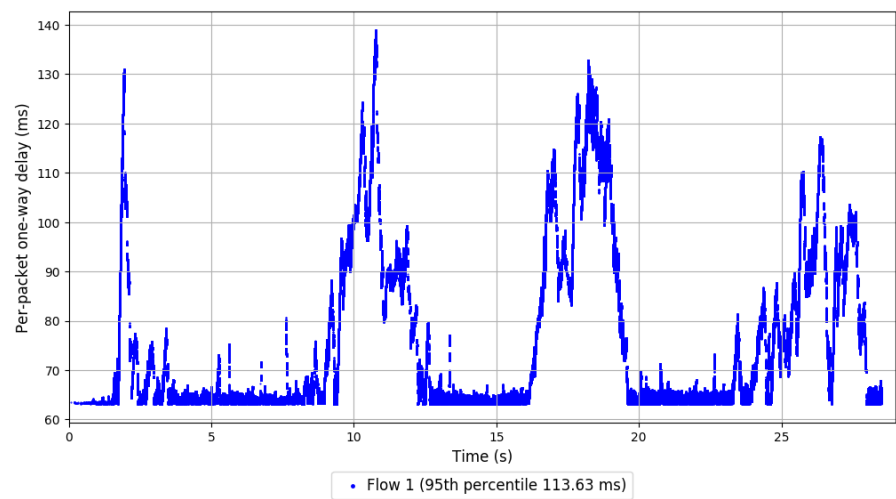
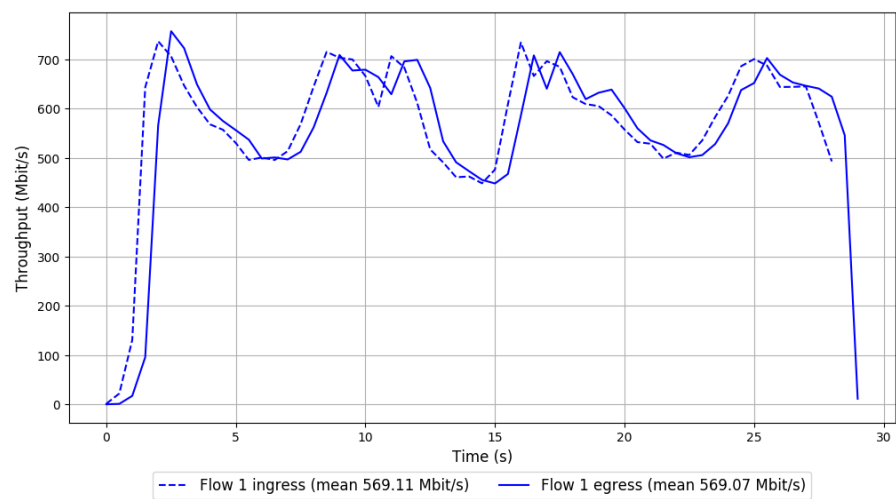
-- Flow 1:

Average throughput: 569.07 Mbit/s

95th percentile per-packet one-way delay: 113.626 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesD — Data Link



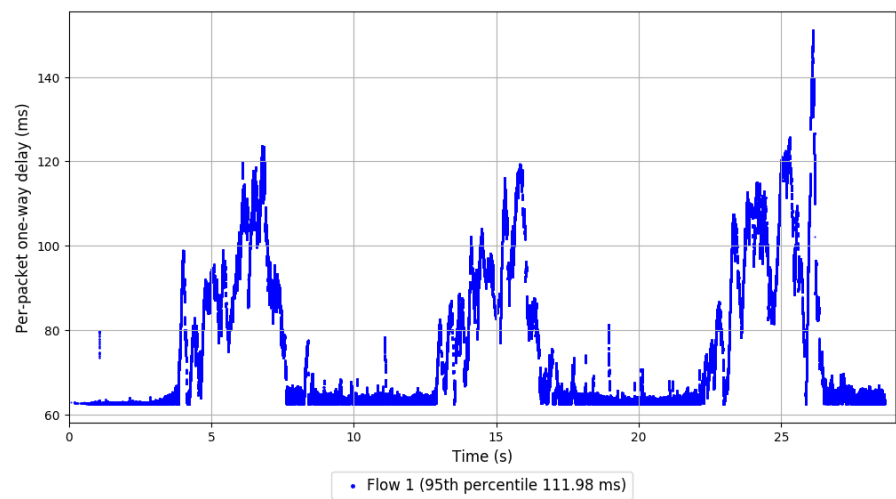
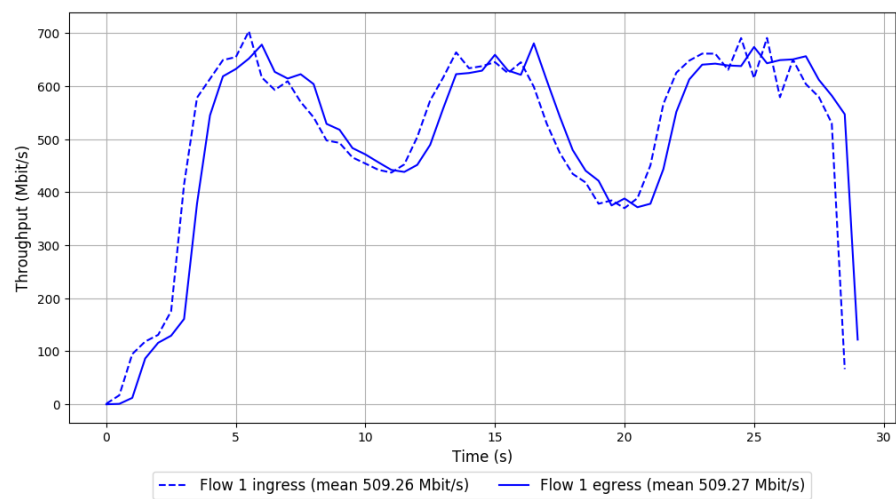


Run 5: Statistics of Indigo-MusesD

Start at: 2019-03-09 08:40:43  
End at: 2019-03-09 08:41:13  
Local clock offset: -0.087 ms  
Remote clock offset: -0.194 ms

# Below is generated by plot.py at 2019-03-09 09:59:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 509.27 Mbit/s  
95th percentile per-packet one-way delay: 111.983 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 509.27 Mbit/s  
95th percentile per-packet one-way delay: 111.983 ms  
Loss rate: 0.00%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-03-09 06:23:16

End at: 2019-03-09 06:23:46

Local clock offset: -0.093 ms

Remote clock offset: -0.308 ms

# Below is generated by plot.py at 2019-03-09 10:01:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 643.39 Mbit/s

95th percentile per-packet one-way delay: 127.497 ms

Loss rate: 0.21%

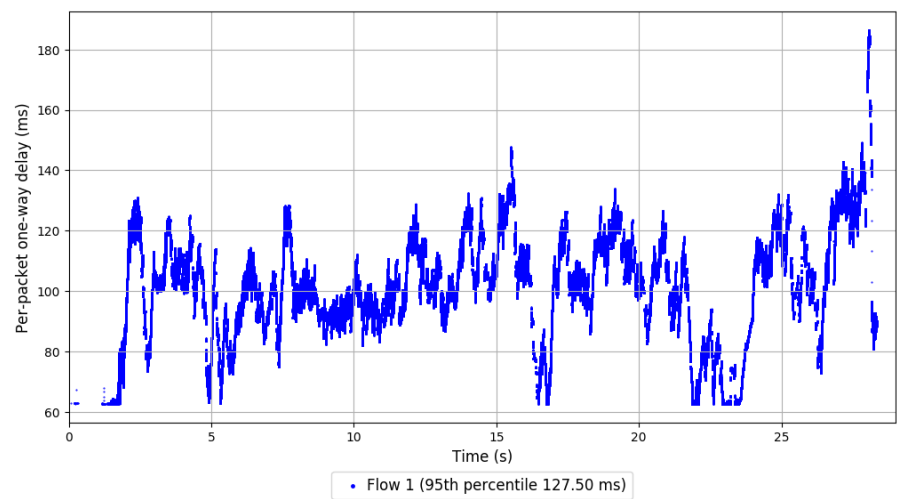
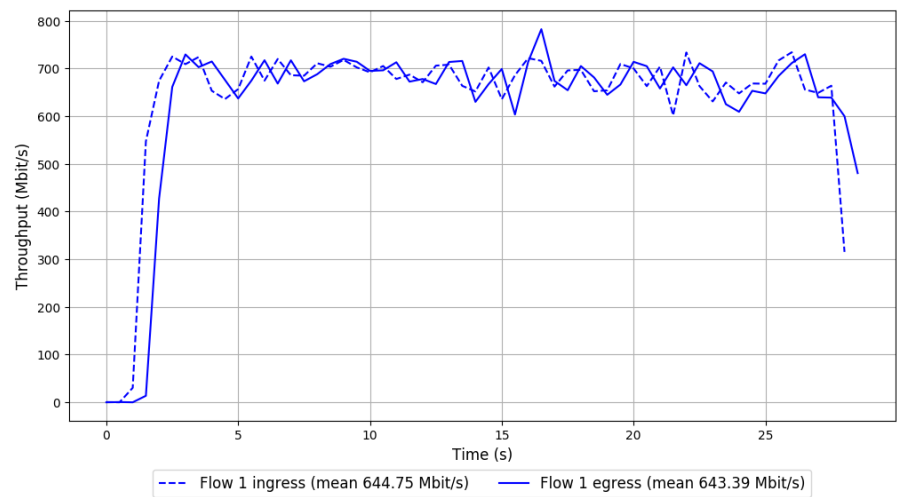
-- Flow 1:

Average throughput: 643.39 Mbit/s

95th percentile per-packet one-way delay: 127.497 ms

Loss rate: 0.21%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-03-09 06:54:21

End at: 2019-03-09 06:54:51

Local clock offset: -0.103 ms

Remote clock offset: 0.002 ms

# Below is generated by plot.py at 2019-03-09 10:01:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 654.50 Mbit/s

95th percentile per-packet one-way delay: 135.311 ms

Loss rate: 0.14%

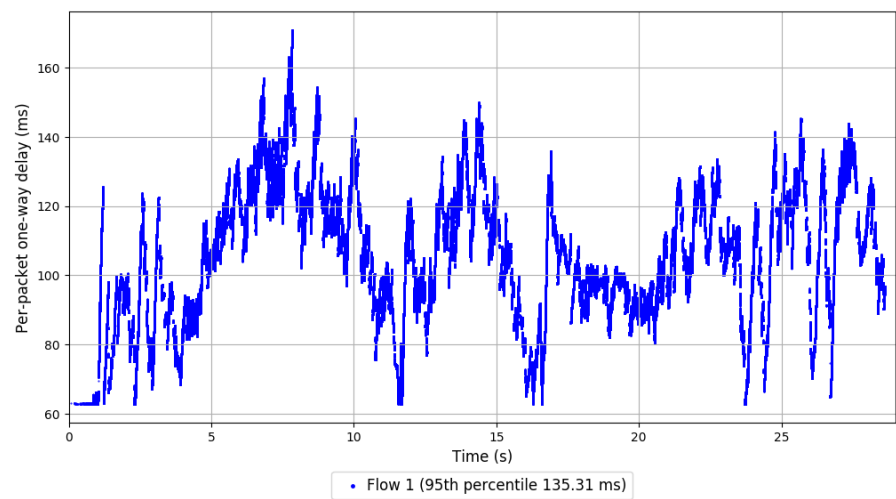
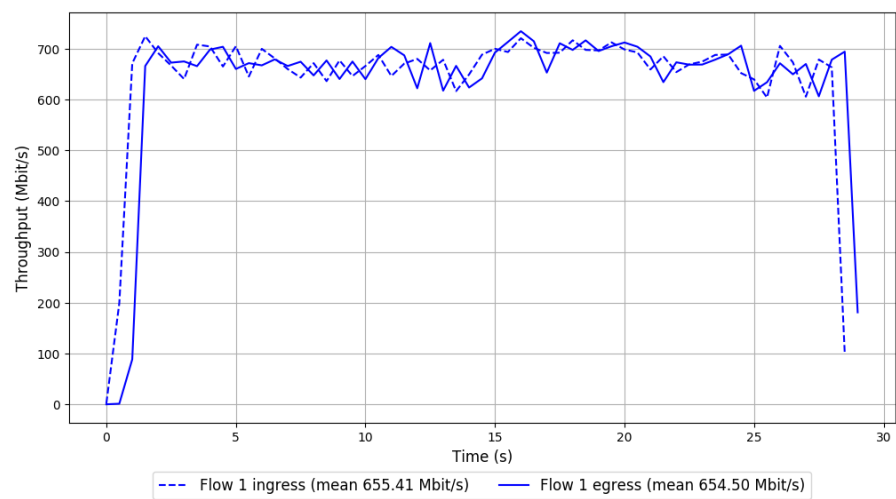
-- Flow 1:

Average throughput: 654.50 Mbit/s

95th percentile per-packet one-way delay: 135.311 ms

Loss rate: 0.14%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-03-09 07:25:04

End at: 2019-03-09 07:25:34

Local clock offset: -0.104 ms

Remote clock offset: -0.204 ms

# Below is generated by plot.py at 2019-03-09 10:06:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 643.87 Mbit/s

95th percentile per-packet one-way delay: 140.660 ms

Loss rate: 0.15%

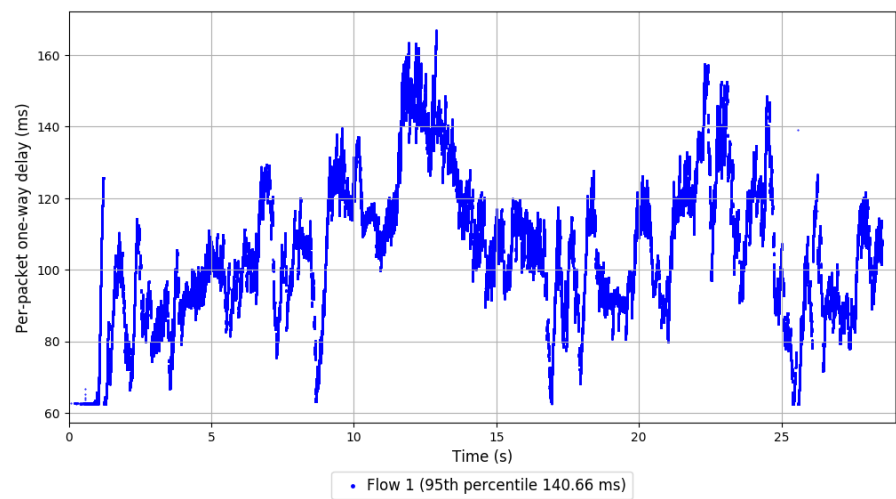
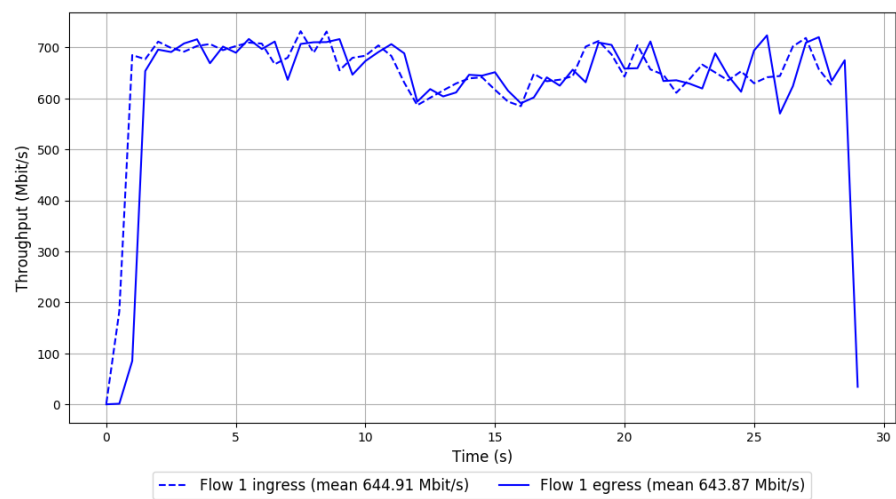
-- Flow 1:

Average throughput: 643.87 Mbit/s

95th percentile per-packet one-way delay: 140.660 ms

Loss rate: 0.15%

Run 3: Report of Indigo-MusesT — Data Link





Run 4: Statistics of Indigo-MusesT

Start at: 2019-03-09 07:56:14

End at: 2019-03-09 07:56:44

Local clock offset: -0.033 ms

Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2019-03-09 10:06:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 635.32 Mbit/s

95th percentile per-packet one-way delay: 146.624 ms

Loss rate: 0.13%

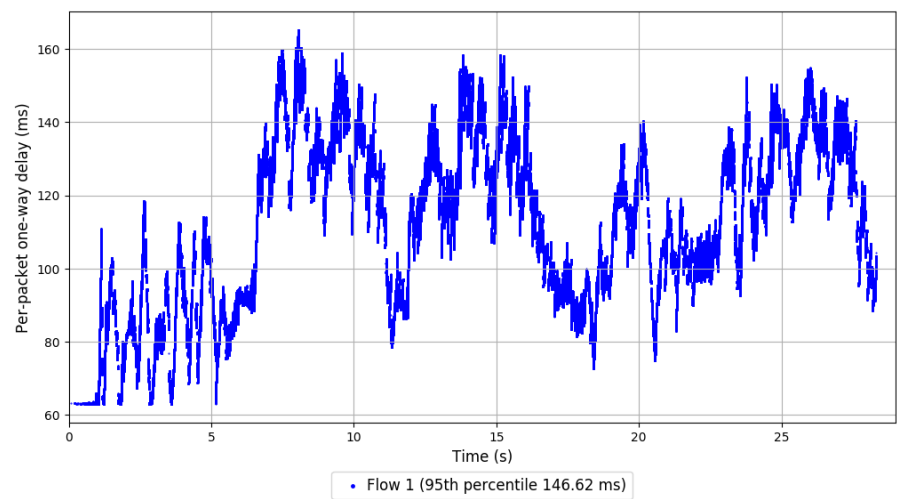
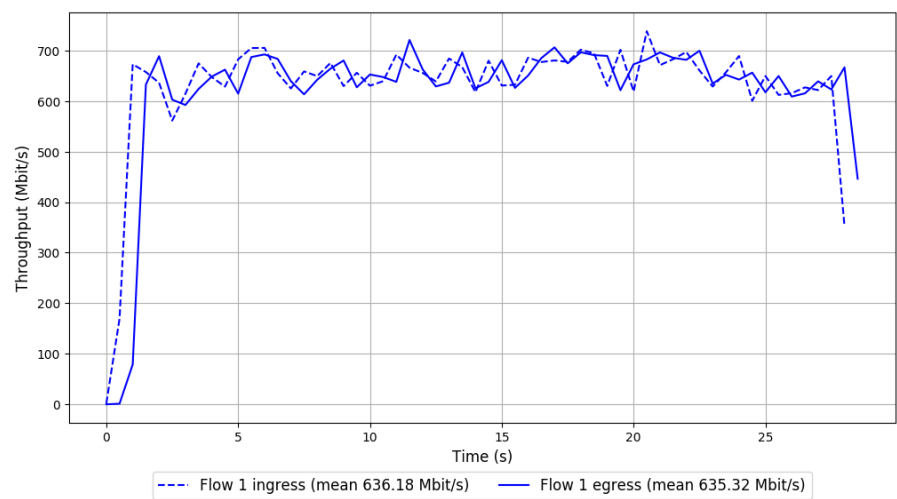
-- Flow 1:

Average throughput: 635.32 Mbit/s

95th percentile per-packet one-way delay: 146.624 ms

Loss rate: 0.13%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-03-09 08:27:19

End at: 2019-03-09 08:27:49

Local clock offset: -0.077 ms

Remote clock offset: 0.127 ms

# Below is generated by plot.py at 2019-03-09 10:06:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 656.78 Mbit/s

95th percentile per-packet one-way delay: 134.950 ms

Loss rate: 0.19%

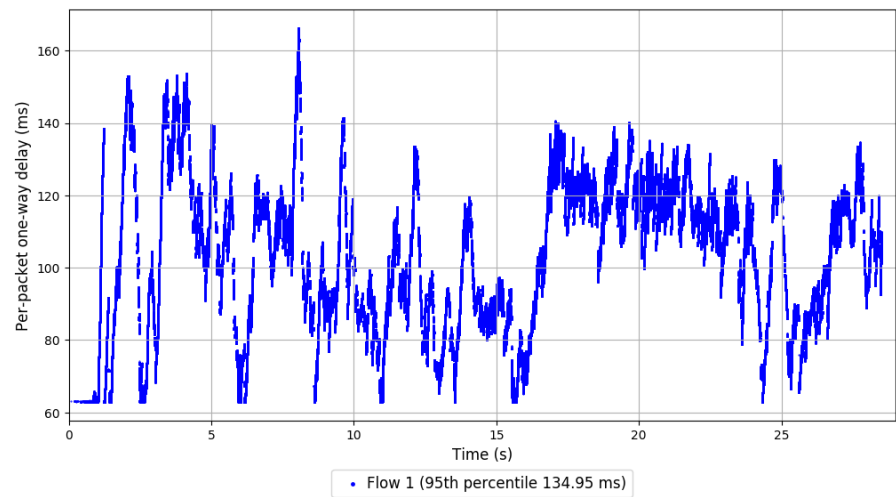
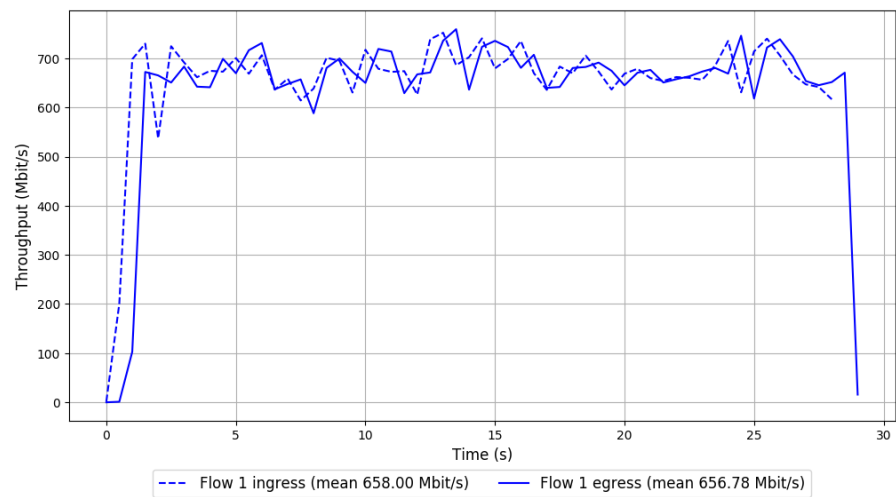
-- Flow 1:

Average throughput: 656.78 Mbit/s

95th percentile per-packet one-way delay: 134.950 ms

Loss rate: 0.19%

Run 5: Report of Indigo-MusesT — Data Link

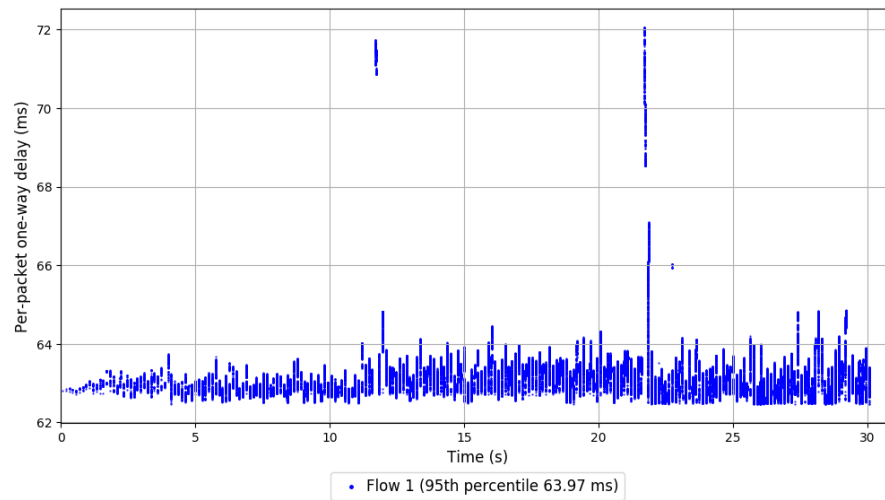
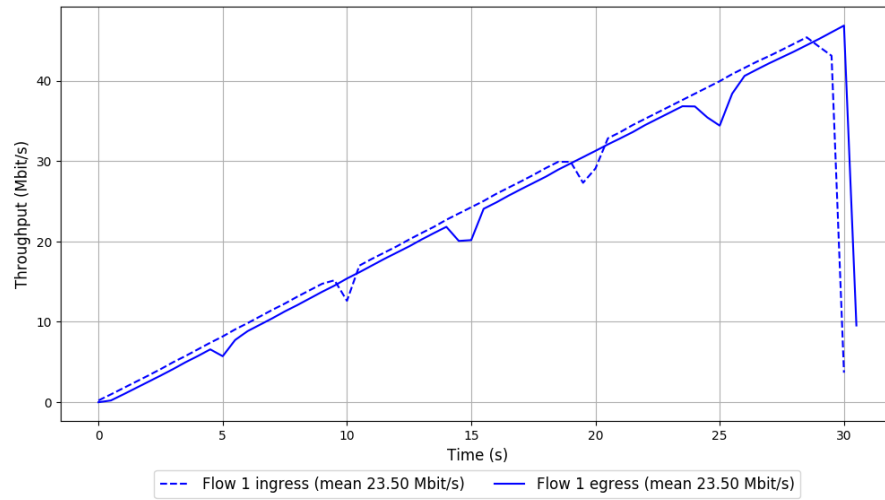


Run 1: Statistics of LEDBAT

Start at: 2019-03-09 06:26:32  
End at: 2019-03-09 06:27:02  
Local clock offset: -0.125 ms  
Remote clock offset: -0.324 ms

# Below is generated by plot.py at 2019-03-09 10:06:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 23.50 Mbit/s  
95th percentile per-packet one-way delay: 63.973 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 23.50 Mbit/s  
95th percentile per-packet one-way delay: 63.973 ms  
Loss rate: 0.00%

# Run 1: Report of LEDBAT — Data Link

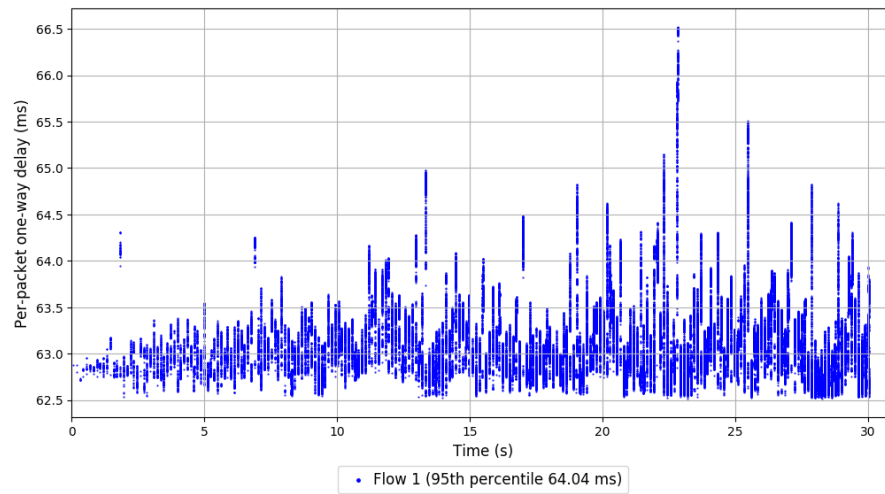
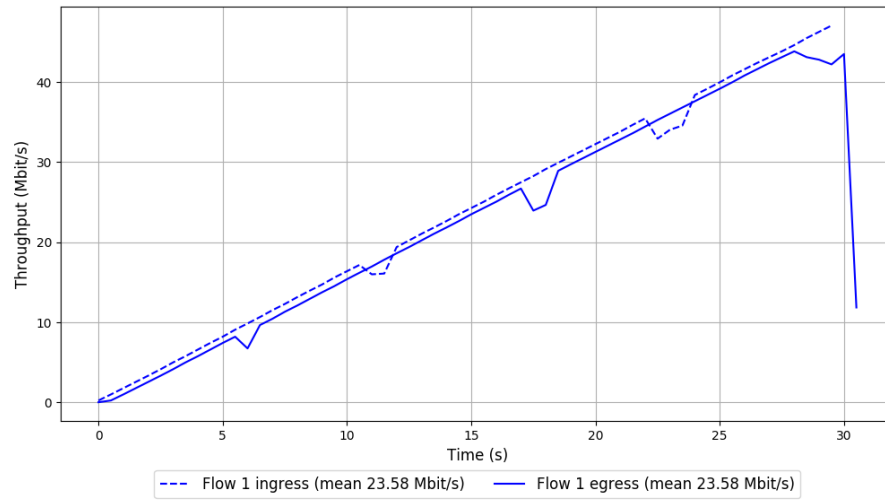


Run 2: Statistics of LEDBAT

Start at: 2019-03-09 06:57:37  
End at: 2019-03-09 06:58:07  
Local clock offset: -0.086 ms  
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2019-03-09 10:06:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 23.58 Mbit/s  
95th percentile per-packet one-way delay: 64.040 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 23.58 Mbit/s  
95th percentile per-packet one-way delay: 64.040 ms  
Loss rate: 0.00%

## Run 2: Report of LEDBAT — Data Link





Run 3: Statistics of LEDBAT

Start at: 2019-03-09 07:28:19

End at: 2019-03-09 07:28:49

Local clock offset: -0.116 ms

Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2019-03-09 10:06:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 23.39 Mbit/s

95th percentile per-packet one-way delay: 64.184 ms

Loss rate: 0.00%

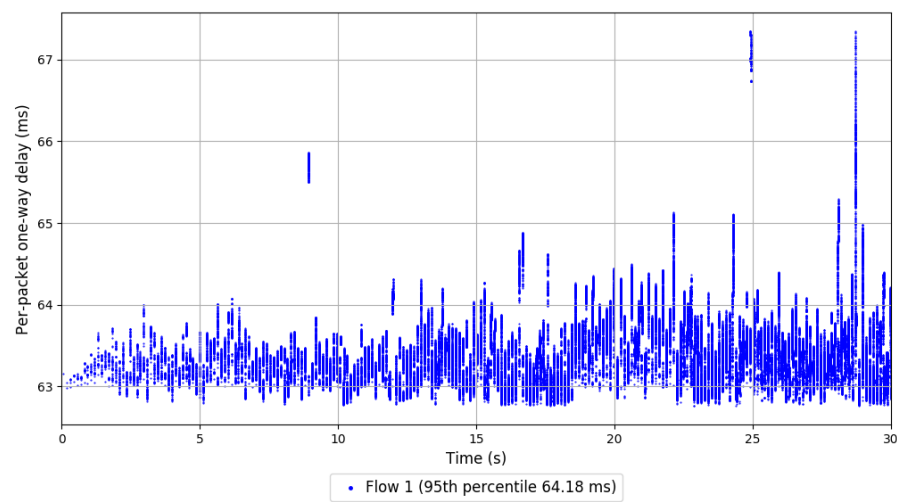
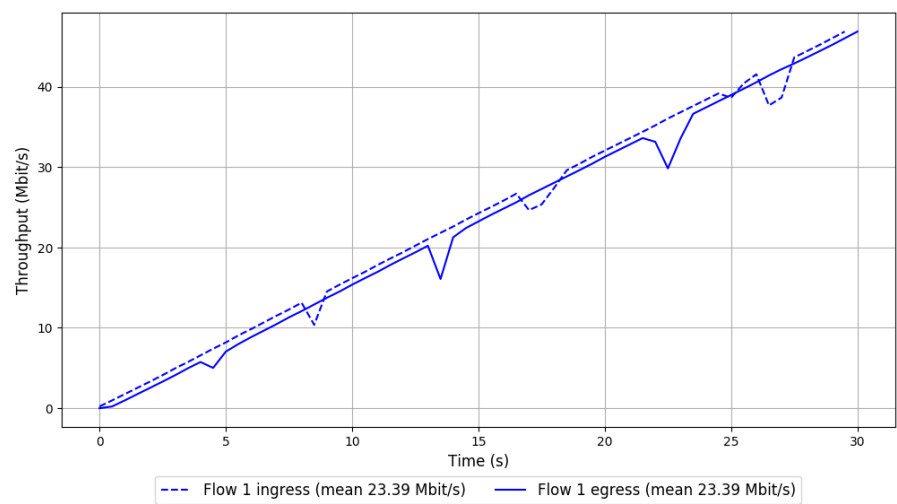
-- Flow 1:

Average throughput: 23.39 Mbit/s

95th percentile per-packet one-way delay: 64.184 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

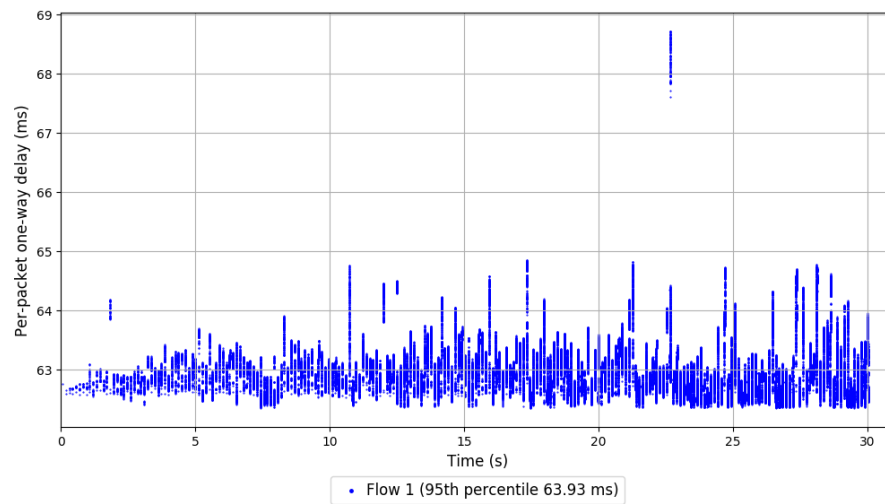
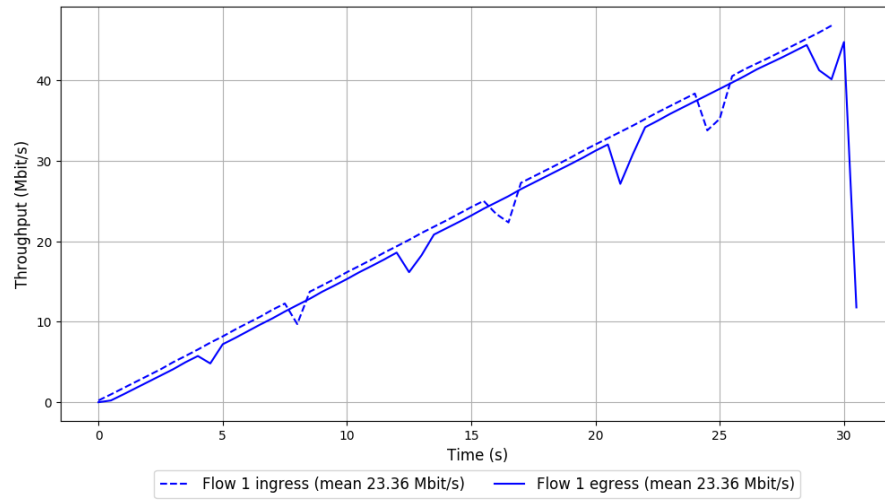


Run 4: Statistics of LEDBAT

Start at: 2019-03-09 07:59:30  
End at: 2019-03-09 08:00:00  
Local clock offset: -0.026 ms  
Remote clock offset: -0.621 ms

# Below is generated by plot.py at 2019-03-09 10:06:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 23.36 Mbit/s  
95th percentile per-packet one-way delay: 63.927 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 23.36 Mbit/s  
95th percentile per-packet one-way delay: 63.927 ms  
Loss rate: 0.00%

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

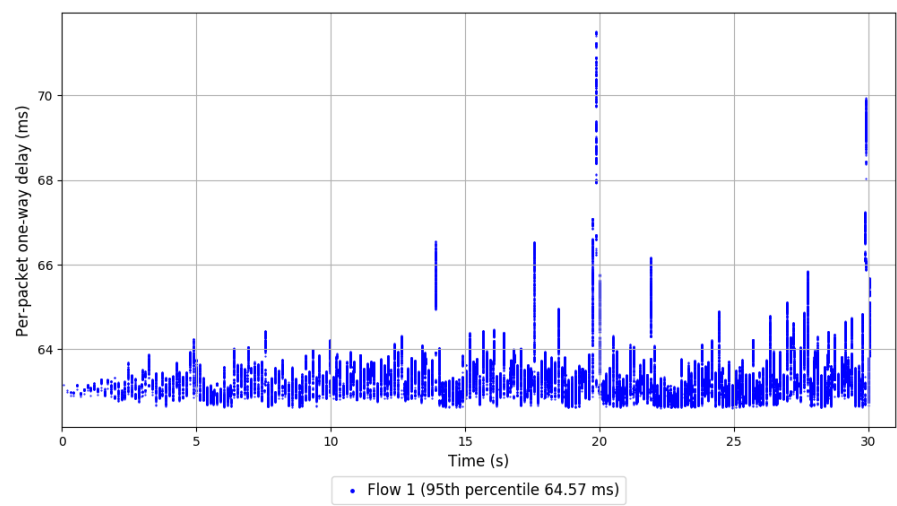
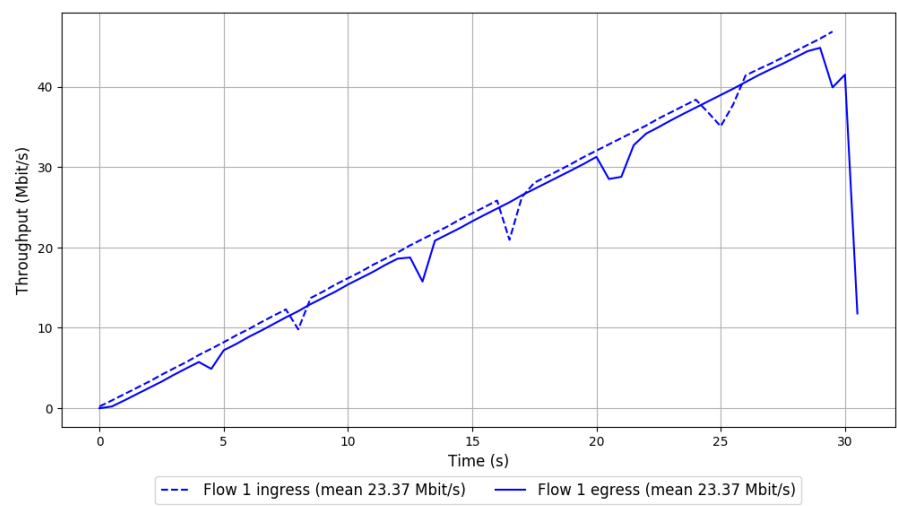


Run 5: Statistics of LEDBAT

Start at: 2019-03-09 08:30:36  
End at: 2019-03-09 08:31:06  
Local clock offset: -0.034 ms  
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2019-03-09 10:06:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 23.37 Mbit/s  
95th percentile per-packet one-way delay: 64.573 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 23.37 Mbit/s  
95th percentile per-packet one-way delay: 64.573 ms  
Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-03-09 06:32:05

End at: 2019-03-09 06:32:35

Local clock offset: -0.1 ms

Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2019-03-09 10:11:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 386.32 Mbit/s

95th percentile per-packet one-way delay: 116.524 ms

Loss rate: 0.54%

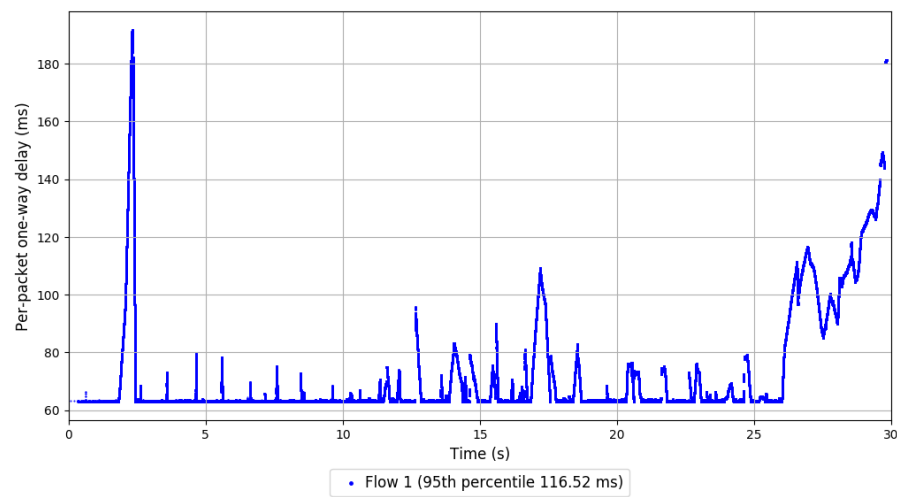
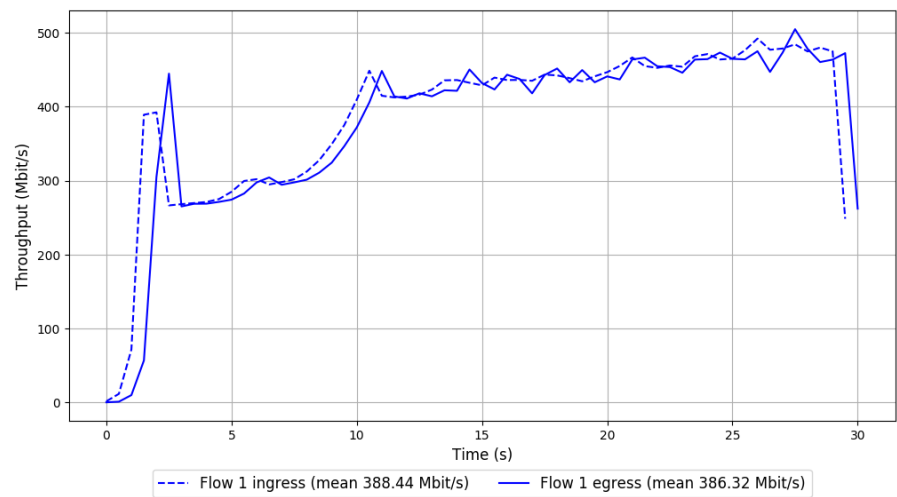
-- Flow 1:

Average throughput: 386.32 Mbit/s

95th percentile per-packet one-way delay: 116.524 ms

Loss rate: 0.54%

Run 1: Report of PCC-Allegro — Data Link





Run 2: Statistics of PCC-Allegro

Start at: 2019-03-09 07:03:10

End at: 2019-03-09 07:03:40

Local clock offset: -0.09 ms

Remote clock offset: -0.222 ms

# Below is generated by plot.py at 2019-03-09 10:12:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 401.67 Mbit/s

95th percentile per-packet one-way delay: 148.807 ms

Loss rate: 0.22%

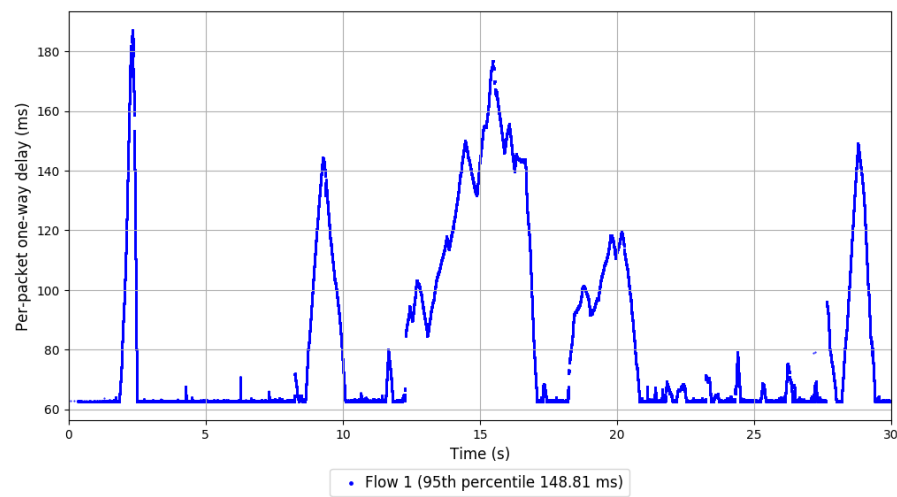
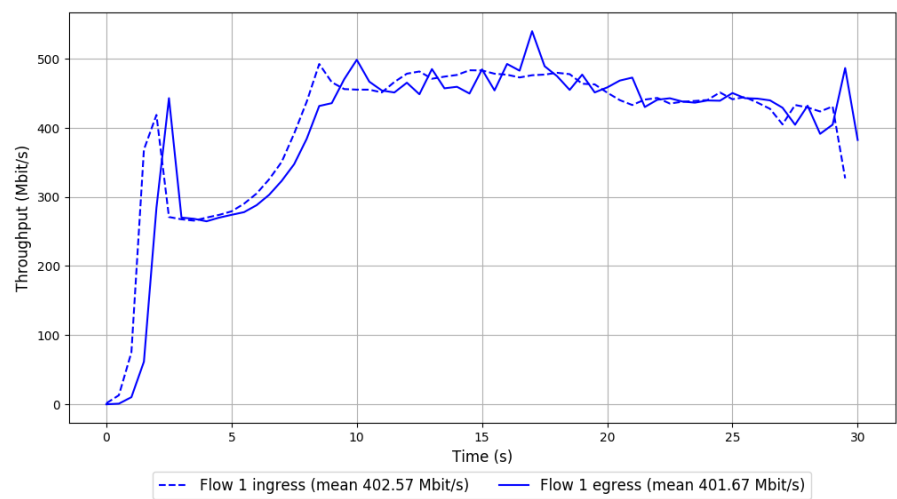
-- Flow 1:

Average throughput: 401.67 Mbit/s

95th percentile per-packet one-way delay: 148.807 ms

Loss rate: 0.22%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-03-09 07:33:53

End at: 2019-03-09 07:34:24

Local clock offset: -0.114 ms

Remote clock offset: -0.262 ms

# Below is generated by plot.py at 2019-03-09 10:12:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 411.16 Mbit/s

95th percentile per-packet one-way delay: 122.537 ms

Loss rate: 0.00%

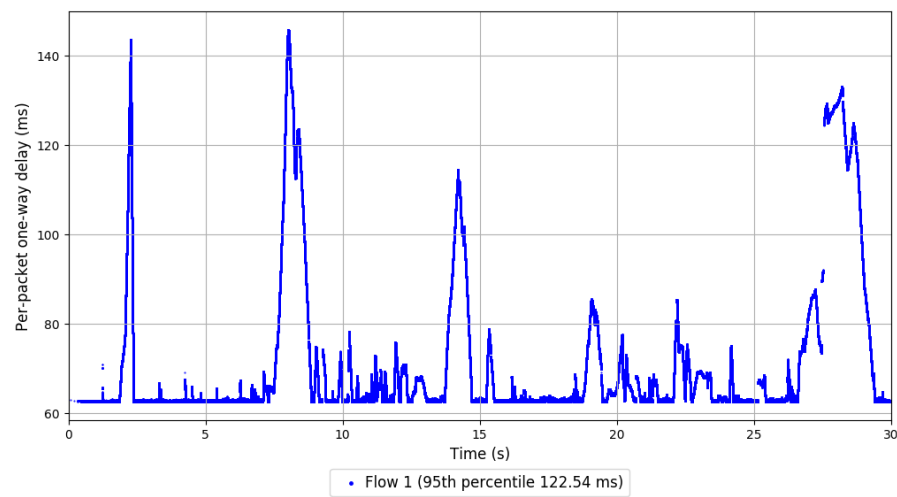
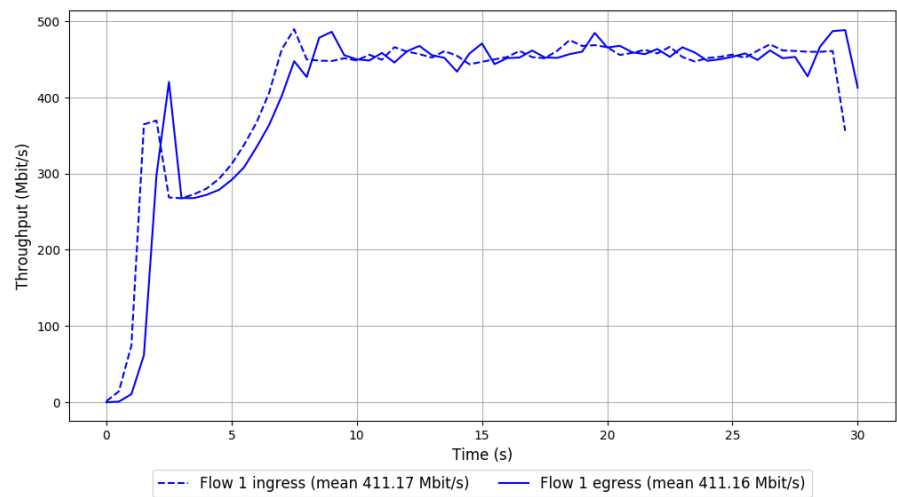
-- Flow 1:

Average throughput: 411.16 Mbit/s

95th percentile per-packet one-way delay: 122.537 ms

Loss rate: 0.00%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-03-09 08:05:03

End at: 2019-03-09 08:05:33

Local clock offset: -0.009 ms

Remote clock offset: 0.023 ms

# Below is generated by plot.py at 2019-03-09 10:15:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 390.30 Mbit/s

95th percentile per-packet one-way delay: 172.241 ms

Loss rate: 0.83%

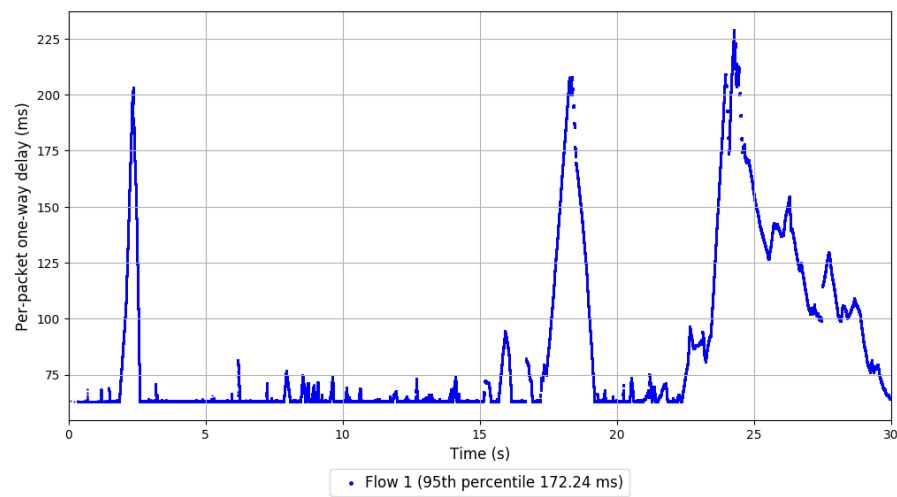
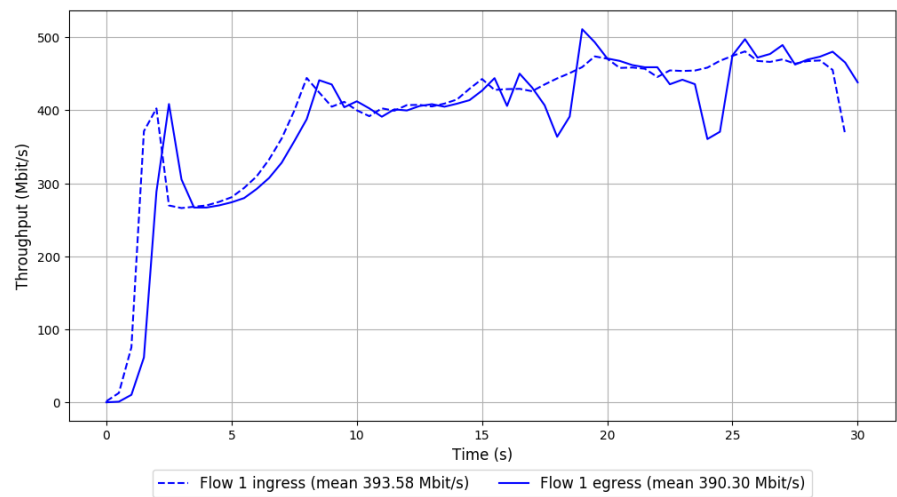
-- Flow 1:

Average throughput: 390.30 Mbit/s

95th percentile per-packet one-way delay: 172.241 ms

Loss rate: 0.83%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-03-09 08:36:09

End at: 2019-03-09 08:36:39

Local clock offset: -0.06 ms

Remote clock offset: -0.181 ms

# Below is generated by plot.py at 2019-03-09 10:17:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 449.46 Mbit/s

95th percentile per-packet one-way delay: 182.731 ms

Loss rate: 3.29%

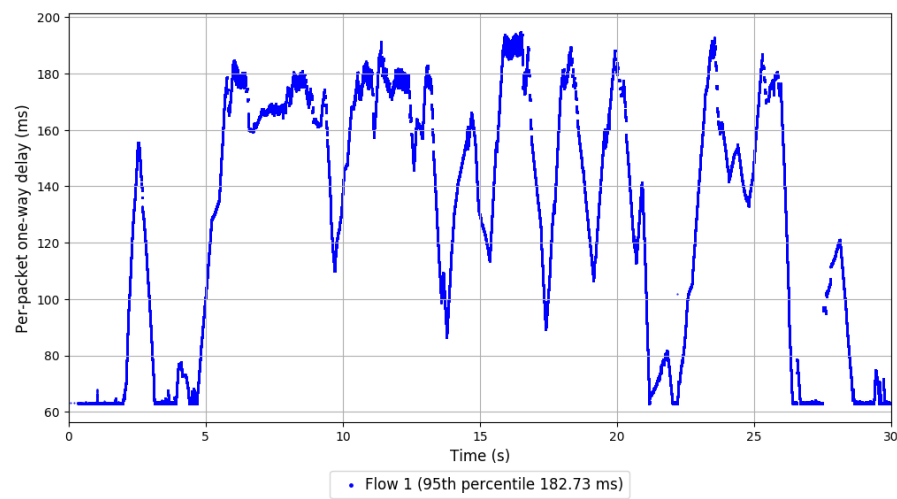
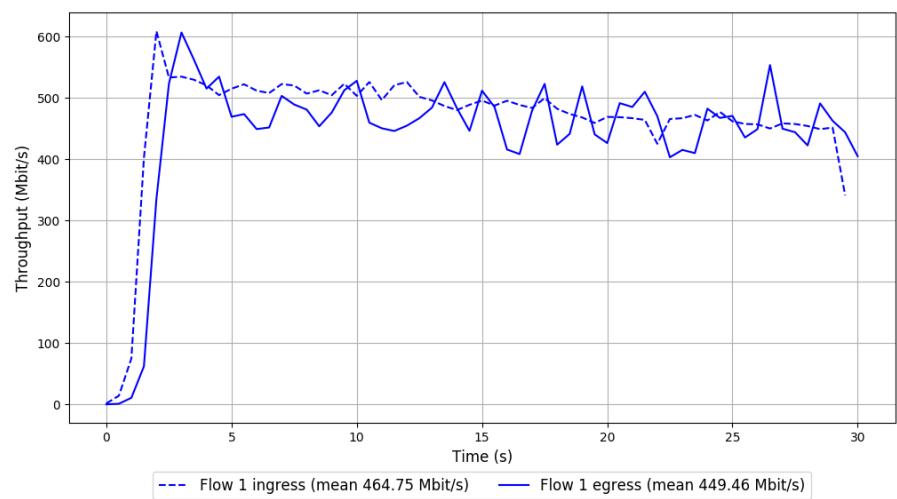
-- Flow 1:

Average throughput: 449.46 Mbit/s

95th percentile per-packet one-way delay: 182.731 ms

Loss rate: 3.29%

Run 5: Report of PCC-Allegro — Data Link





Run 1: Statistics of PCC-Expr

Start at: 2019-03-09 06:21:37

End at: 2019-03-09 06:22:07

Local clock offset: -0.11 ms

Remote clock offset: -1.105 ms

# Below is generated by plot.py at 2019-03-09 10:17:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 338.37 Mbit/s

95th percentile per-packet one-way delay: 165.700 ms

Loss rate: 3.70%

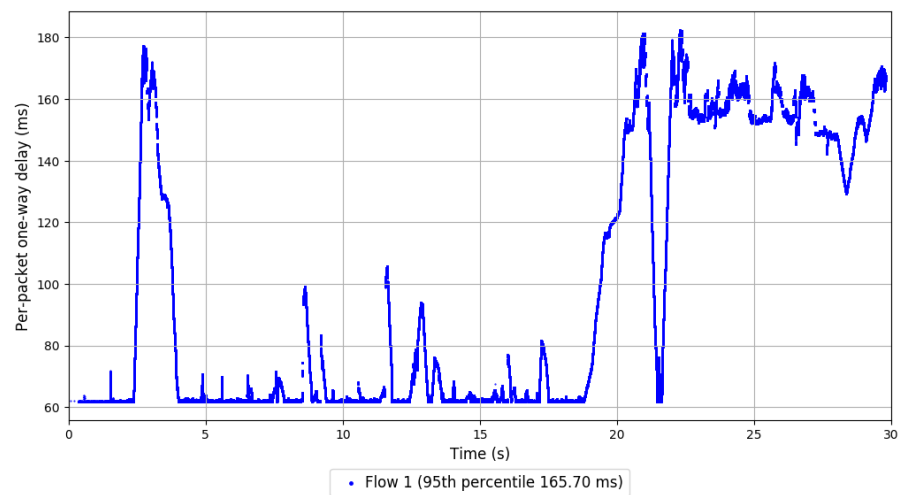
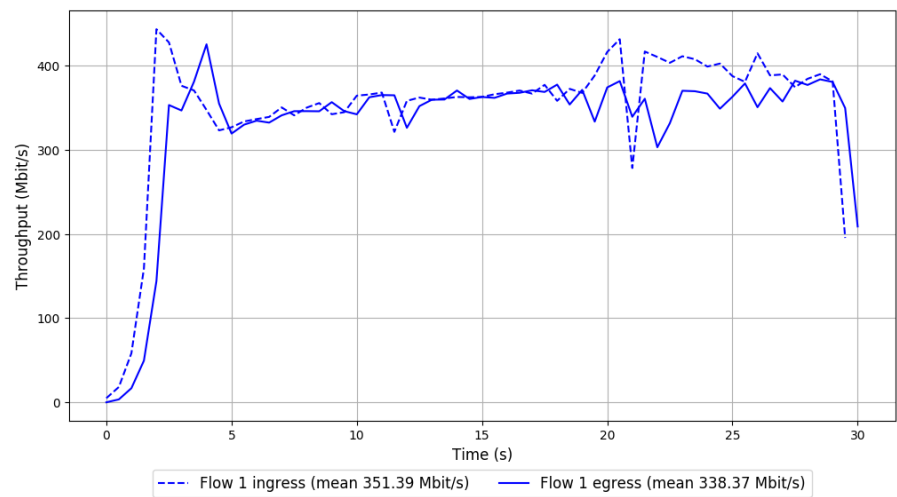
-- Flow 1:

Average throughput: 338.37 Mbit/s

95th percentile per-packet one-way delay: 165.700 ms

Loss rate: 3.70%

Run 1: Report of PCC-Expr — Data Link

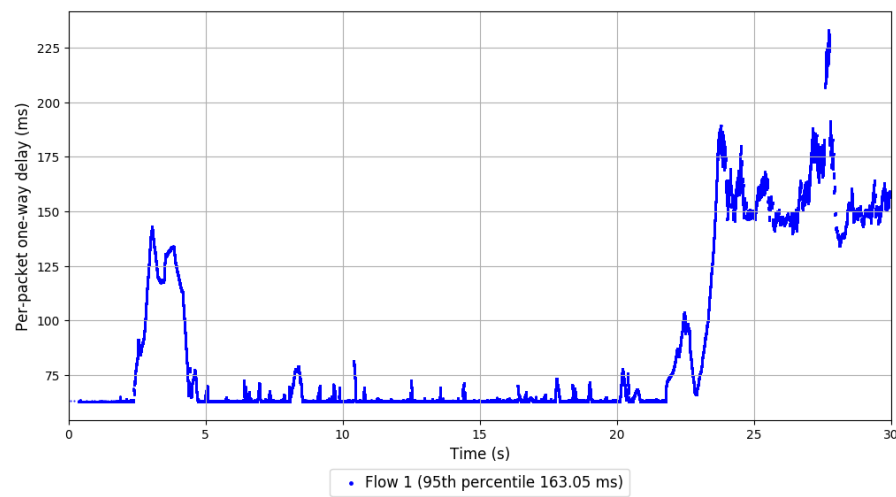
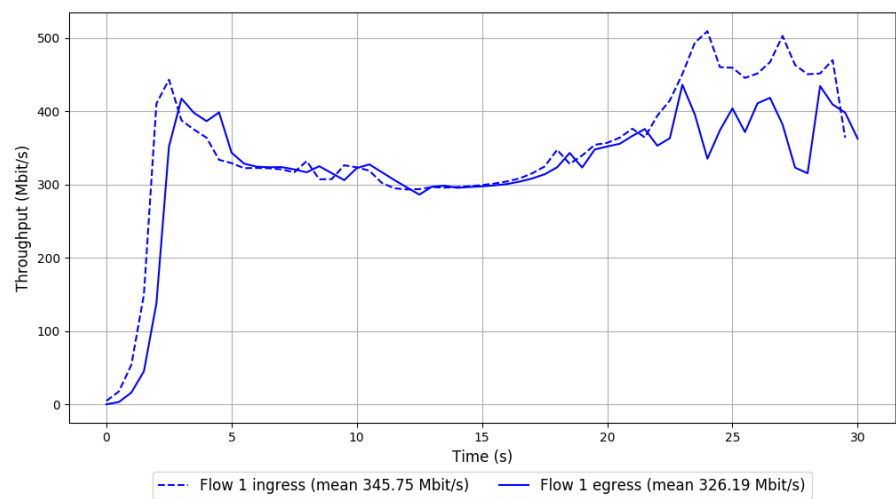


Run 2: Statistics of PCC-Expr

Start at: 2019-03-09 06:52:43  
End at: 2019-03-09 06:53:13  
Local clock offset: -0.085 ms  
Remote clock offset: -0.261 ms

# Below is generated by plot.py at 2019-03-09 10:17:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 326.19 Mbit/s  
95th percentile per-packet one-way delay: 163.054 ms  
Loss rate: 5.65%  
-- Flow 1:  
Average throughput: 326.19 Mbit/s  
95th percentile per-packet one-way delay: 163.054 ms  
Loss rate: 5.65%

Run 2: Report of PCC-Expr — Data Link

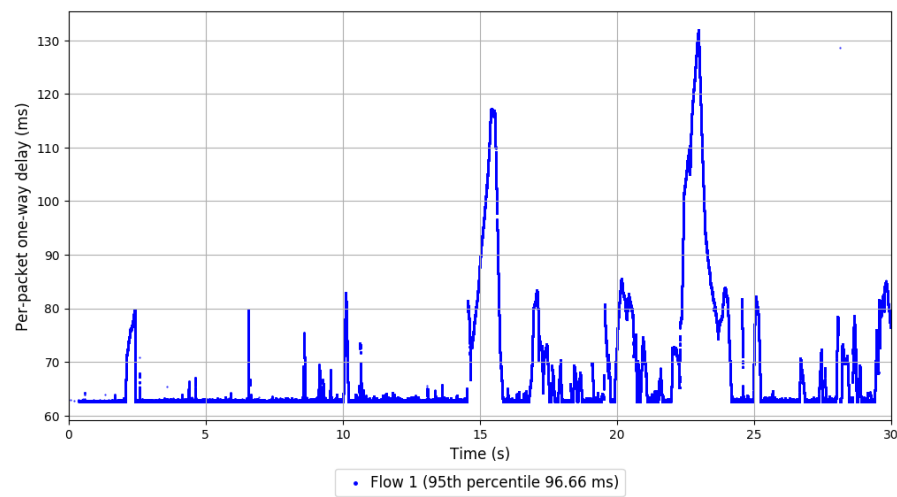
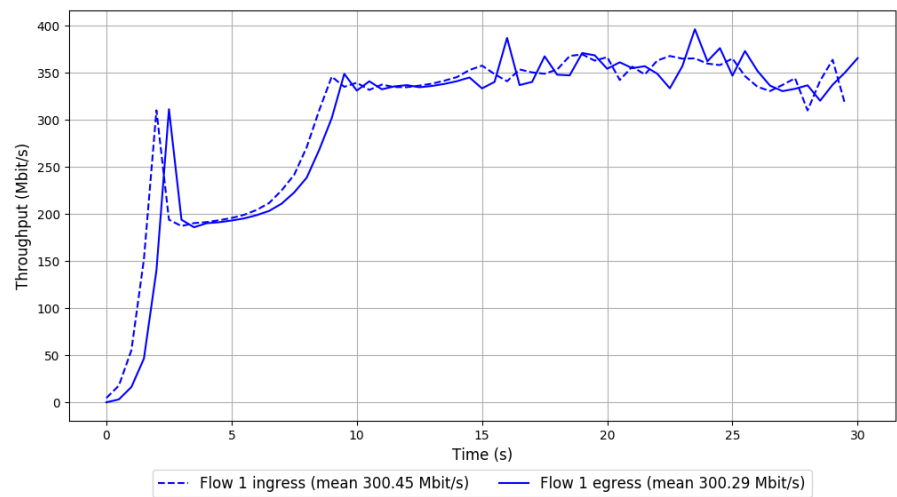


Run 3: Statistics of PCC-Expr

Start at: 2019-03-09 07:23:29  
End at: 2019-03-09 07:23:59  
Local clock offset: -0.108 ms  
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2019-03-09 10:17:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 300.29 Mbit/s  
95th percentile per-packet one-way delay: 96.661 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 300.29 Mbit/s  
95th percentile per-packet one-way delay: 96.661 ms  
Loss rate: 0.05%

Run 3: Report of PCC-Expr — Data Link

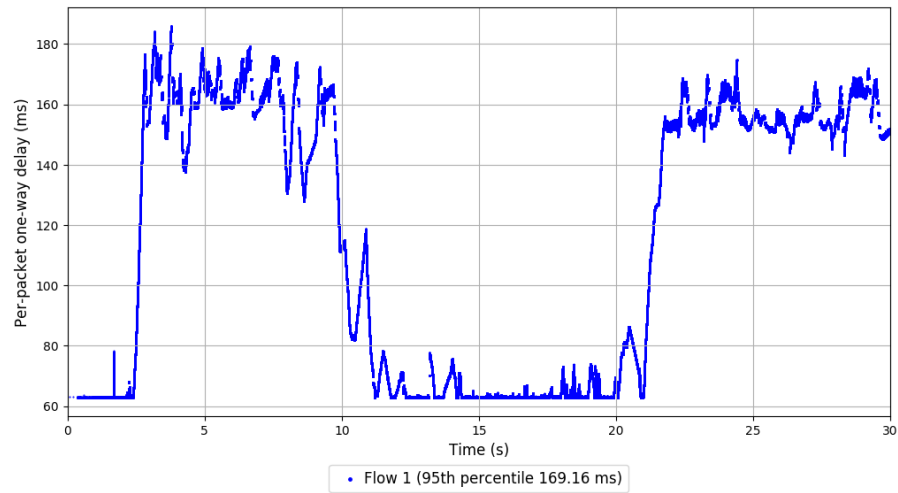
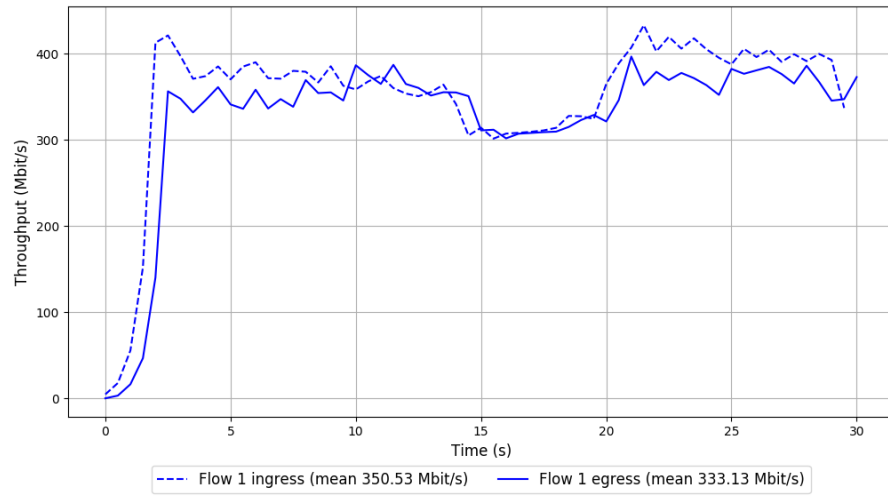


Run 4: Statistics of PCC-Expr

Start at: 2019-03-09 07:54:36  
End at: 2019-03-09 07:55:06  
Local clock offset: -0.022 ms  
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2019-03-09 10:22:59  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 333.13 Mbit/s  
95th percentile per-packet one-way delay: 169.159 ms  
Loss rate: 4.96%  
-- Flow 1:  
Average throughput: 333.13 Mbit/s  
95th percentile per-packet one-way delay: 169.159 ms  
Loss rate: 4.96%

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





Run 5: Statistics of PCC-Expr

Start at: 2019-03-09 08:25:44

End at: 2019-03-09 08:26:14

Local clock offset: -0.037 ms

Remote clock offset: -0.532 ms

# Below is generated by plot.py at 2019-03-09 10:22:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 294.07 Mbit/s

95th percentile per-packet one-way delay: 153.661 ms

Loss rate: 1.16%

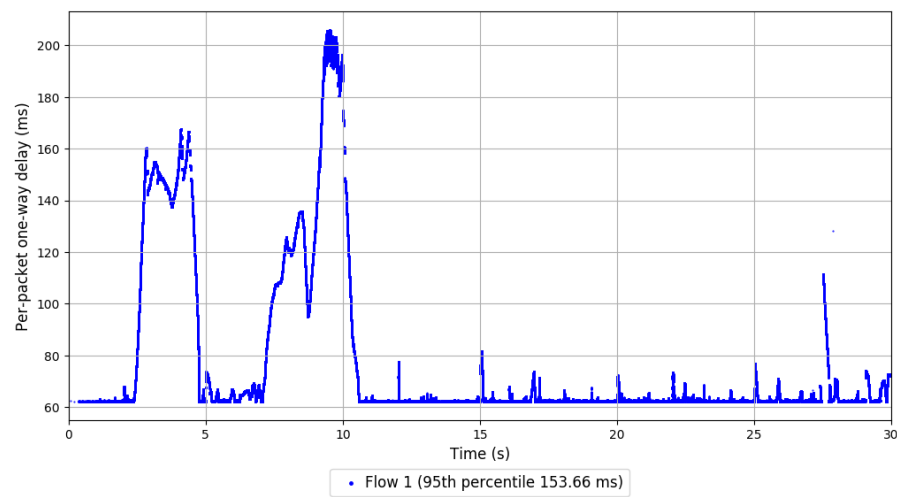
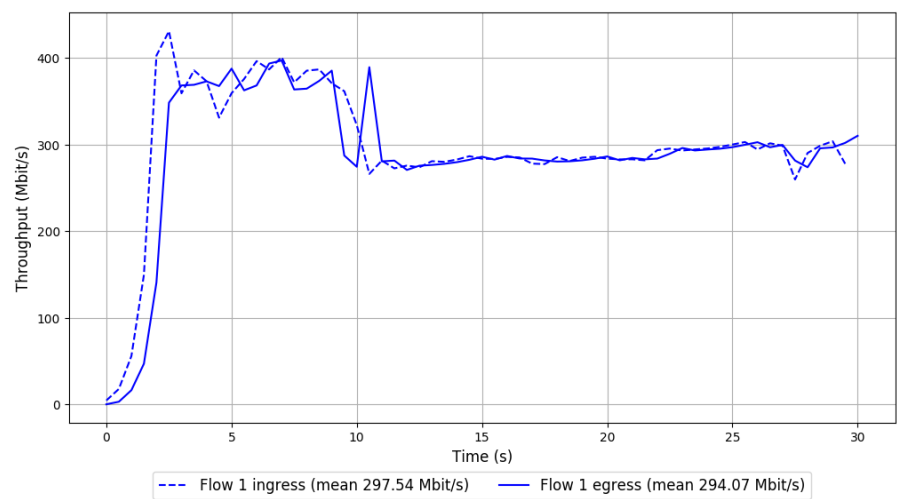
-- Flow 1:

Average throughput: 294.07 Mbit/s

95th percentile per-packet one-way delay: 153.661 ms

Loss rate: 1.16%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

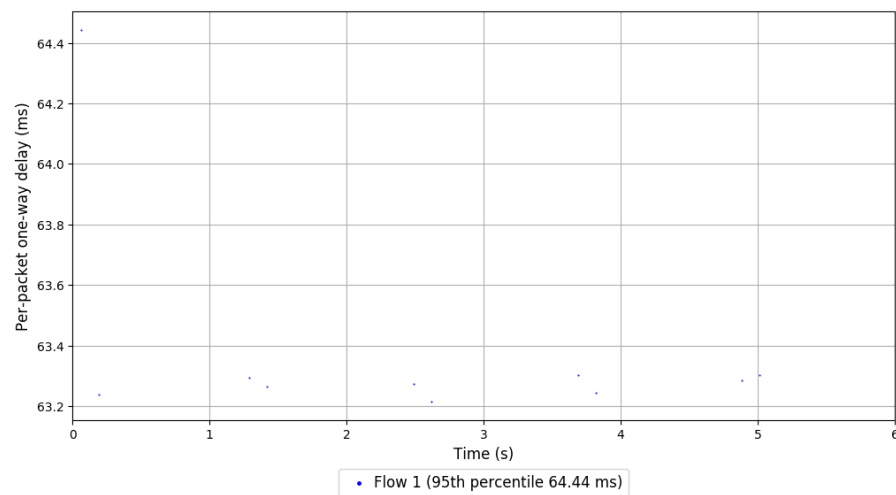
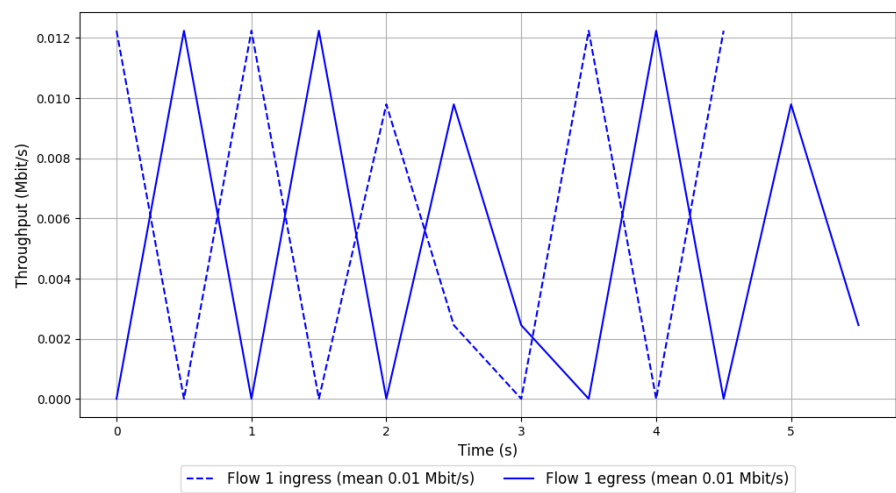
Start at: 2019-03-09 06:07:38

End at: 2019-03-09 06:08:08

Local clock offset: -0.098 ms

Remote clock offset: -0.152 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-03-09 06:38:15

End at: 2019-03-09 06:38:45

Local clock offset: -0.106 ms

Remote clock offset: -0.18 ms

# Below is generated by plot.py at 2019-03-09 10:22:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 65.51 Mbit/s

95th percentile per-packet one-way delay: 62.930 ms

Loss rate: 0.00%

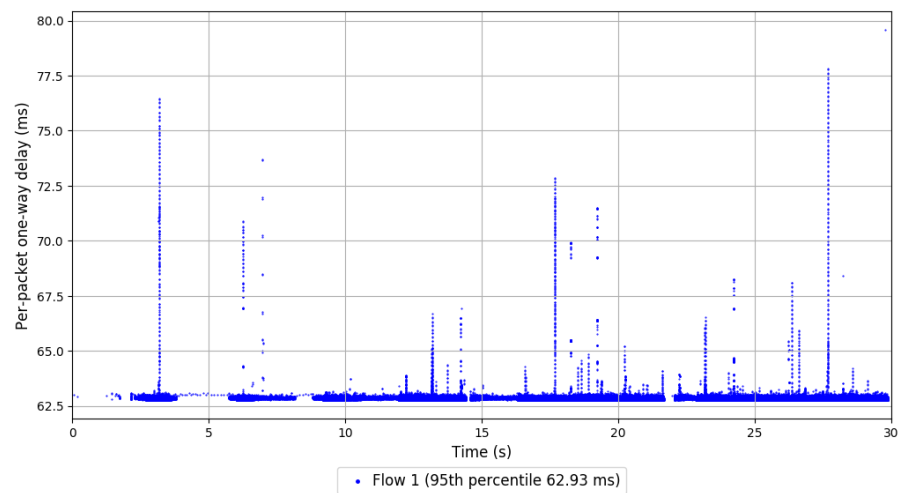
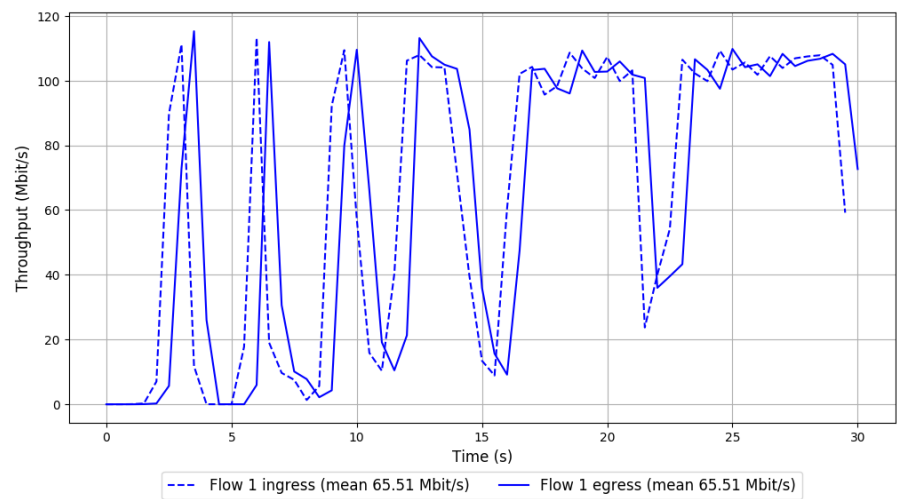
-- Flow 1:

Average throughput: 65.51 Mbit/s

95th percentile per-packet one-way delay: 62.930 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-03-09 07:09:04

End at: 2019-03-09 07:09:34

Local clock offset: -0.101 ms

Remote clock offset: 0.064 ms

# Below is generated by plot.py at 2019-03-09 10:22:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 66.26 Mbit/s

95th percentile per-packet one-way delay: 63.204 ms

Loss rate: 0.00%

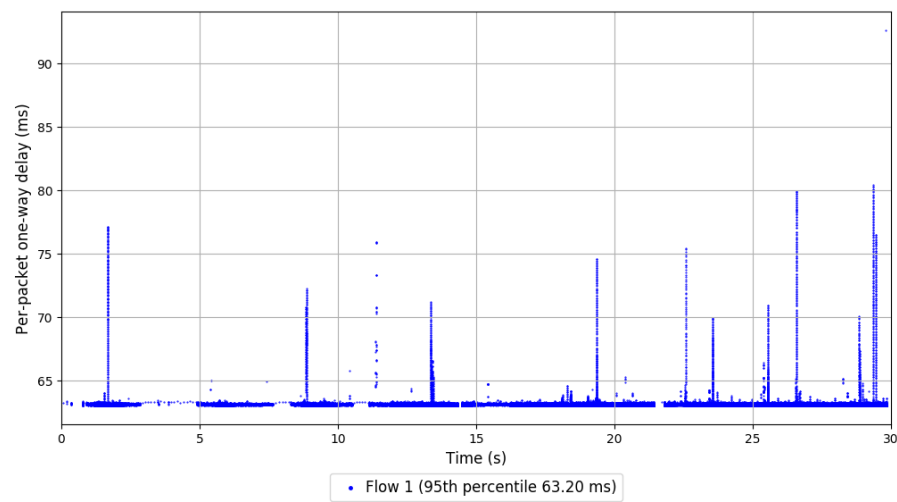
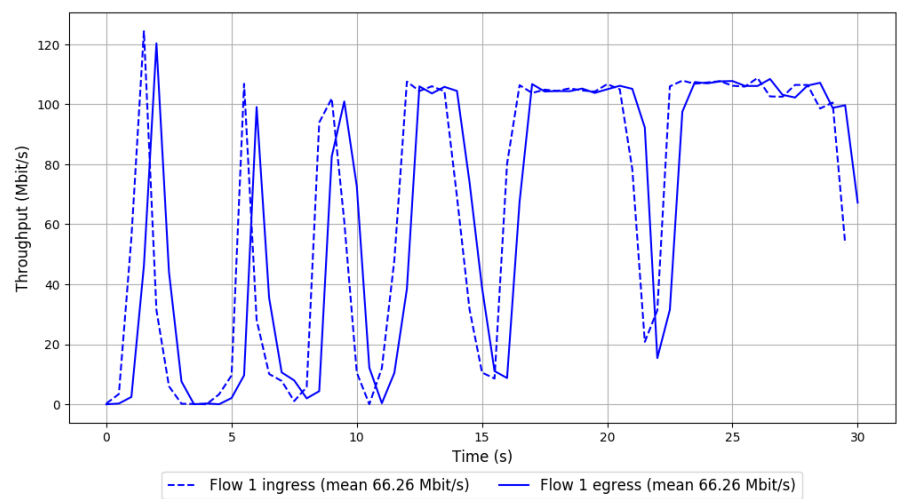
-- Flow 1:

Average throughput: 66.26 Mbit/s

95th percentile per-packet one-way delay: 63.204 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link





Run 4: Statistics of QUIC Cubic

Start at: 2019-03-09 07:40:08

End at: 2019-03-09 07:40:38

Local clock offset: -0.117 ms

Remote clock offset: -0.149 ms

# Below is generated by plot.py at 2019-03-09 10:23:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 62.64 Mbit/s

95th percentile per-packet one-way delay: 63.156 ms

Loss rate: 0.00%

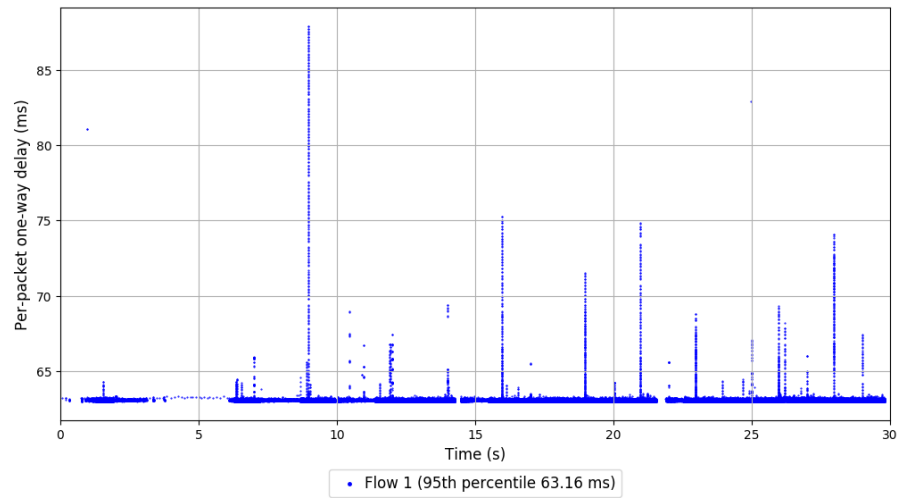
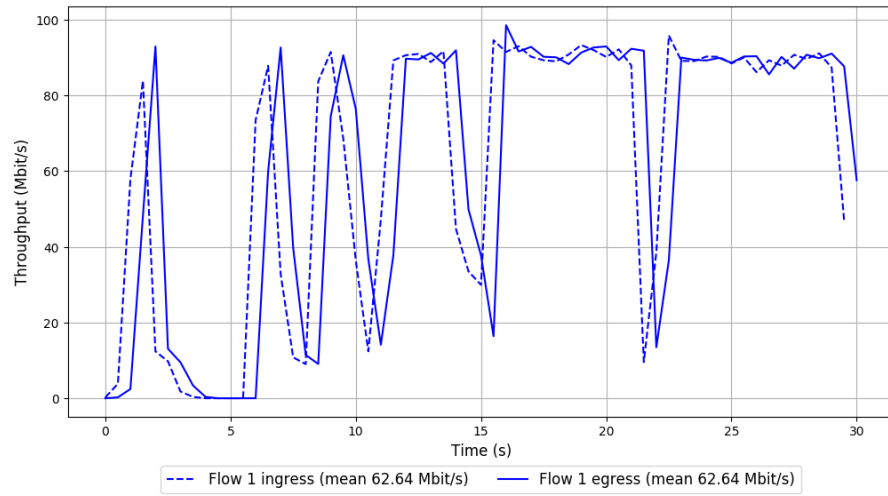
-- Flow 1:

Average throughput: 62.64 Mbit/s

95th percentile per-packet one-way delay: 63.156 ms

Loss rate: 0.00%

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



Run 5: Statistics of QUIC Cubic

Start at: 2019-03-09 08:11:14

End at: 2019-03-09 08:11:44

Local clock offset: 0.017 ms

Remote clock offset: -0.011 ms

# Below is generated by plot.py at 2019-03-09 10:23:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 67.40 Mbit/s

95th percentile per-packet one-way delay: 63.037 ms

Loss rate: 0.00%

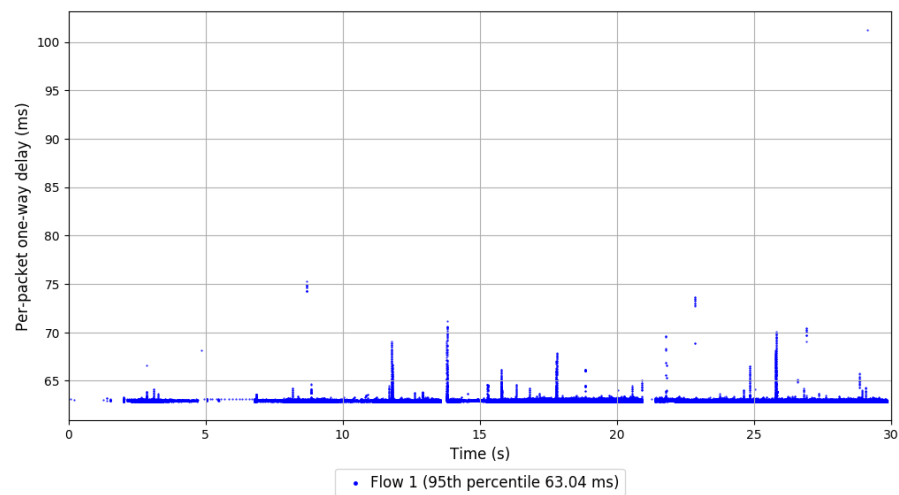
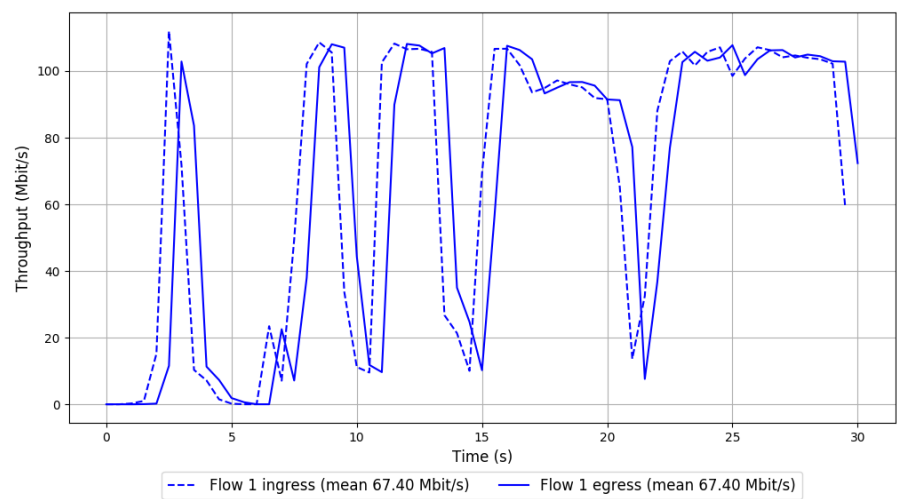
-- Flow 1:

Average throughput: 67.40 Mbit/s

95th percentile per-packet one-way delay: 63.037 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link

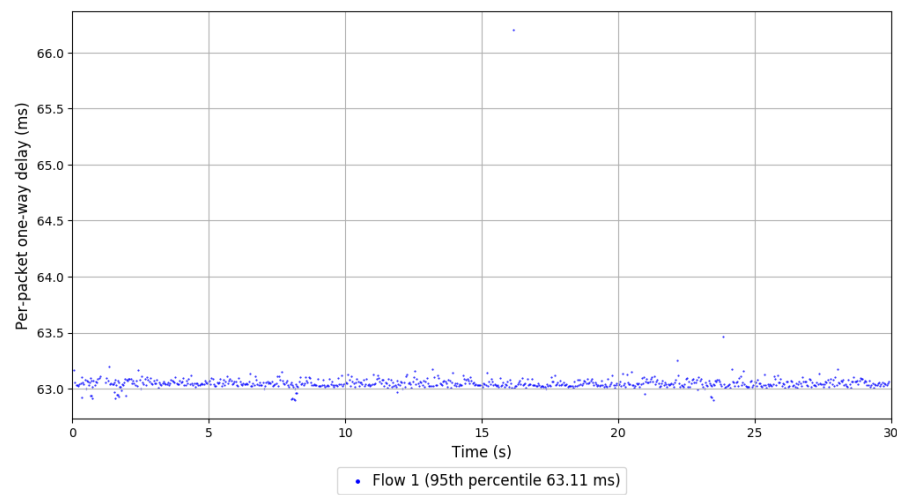
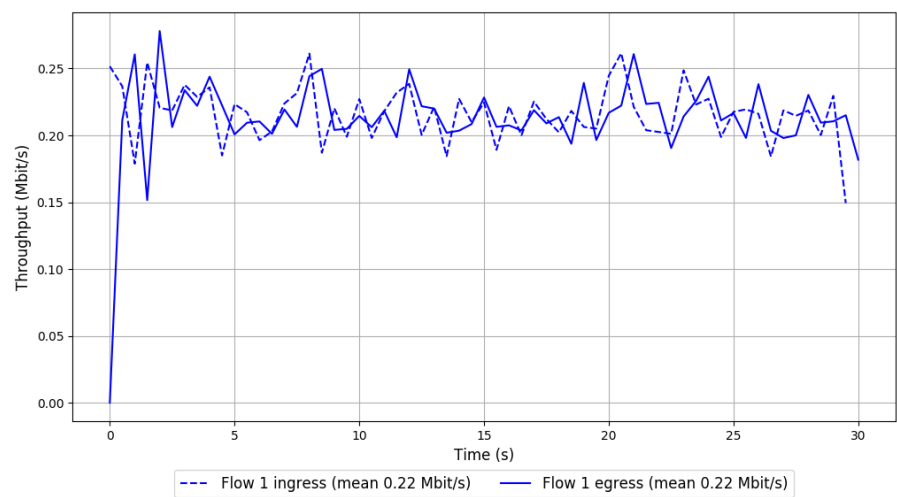


Run 1: Statistics of SCReAM

Start at: 2019-03-09 06:16:21  
End at: 2019-03-09 06:16:51  
Local clock offset: -0.134 ms  
Remote clock offset: -0.152 ms

# Below is generated by plot.py at 2019-03-09 10:23:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.109 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.109 ms  
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

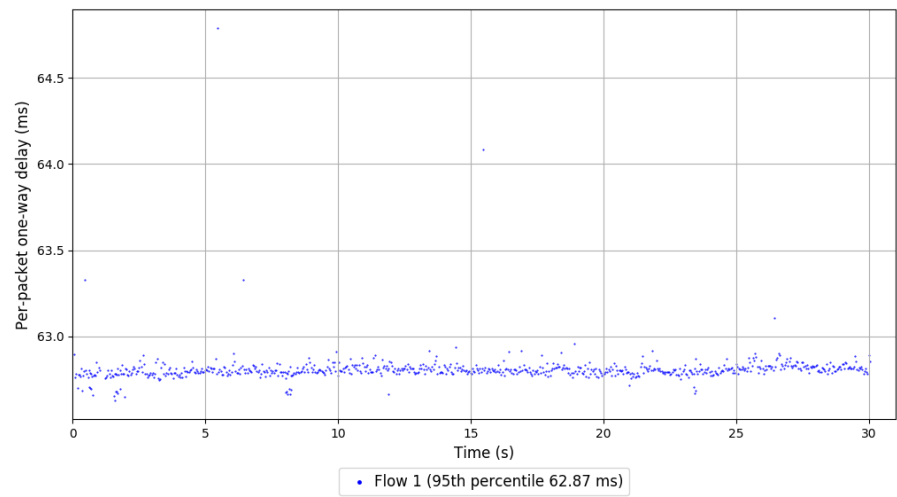
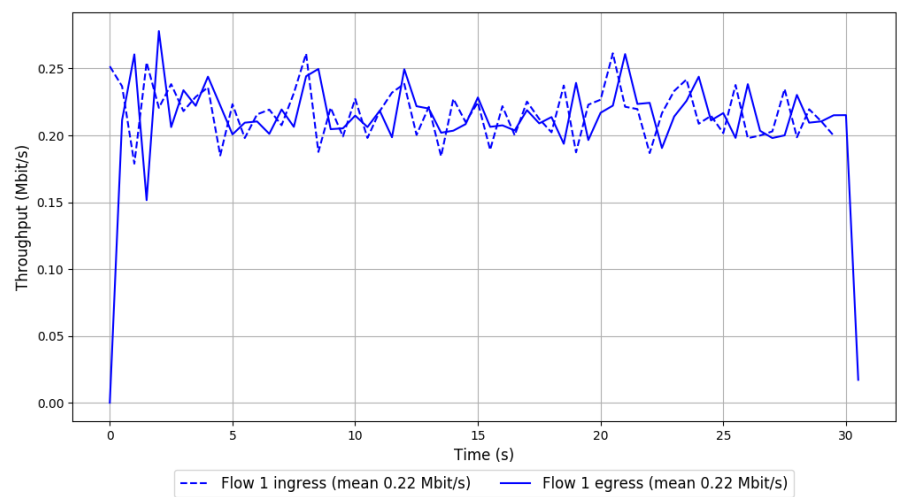


Run 2: Statistics of SCReAM

Start at: 2019-03-09 06:47:02  
End at: 2019-03-09 06:47:32  
Local clock offset: -0.113 ms  
Remote clock offset: -0.142 ms

# Below is generated by plot.py at 2019-03-09 10:23:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 62.867 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 62.867 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



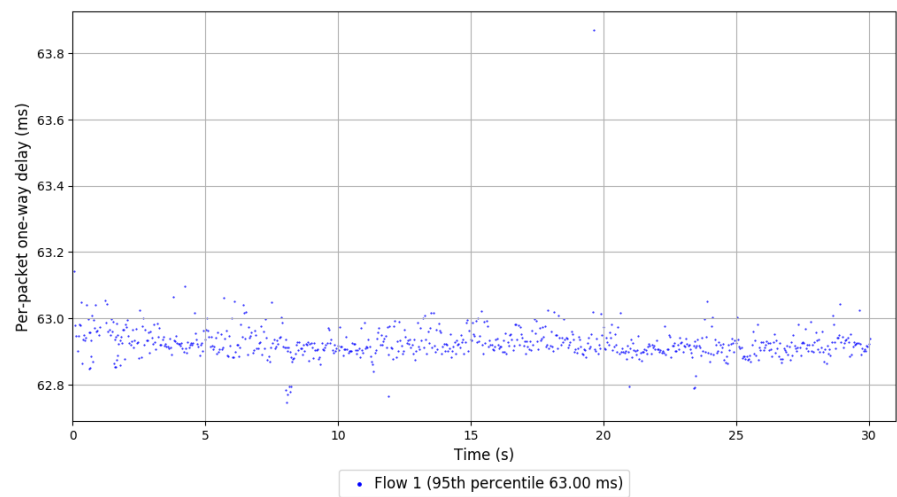
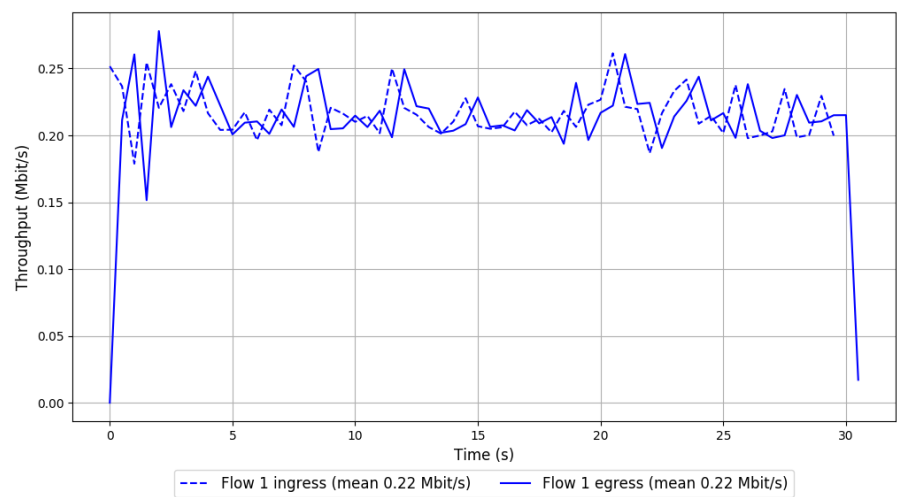


Run 3: Statistics of SCReAM

Start at: 2019-03-09 07:17:48  
End at: 2019-03-09 07:18:18  
Local clock offset: -0.143 ms  
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2019-03-09 10:23:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.000 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.000 ms  
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-03-09 07:48:57

End at: 2019-03-09 07:49:27

Local clock offset: -0.078 ms

Remote clock offset: 0.111 ms

# Below is generated by plot.py at 2019-03-09 10:23:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.546 ms

Loss rate: 0.00%

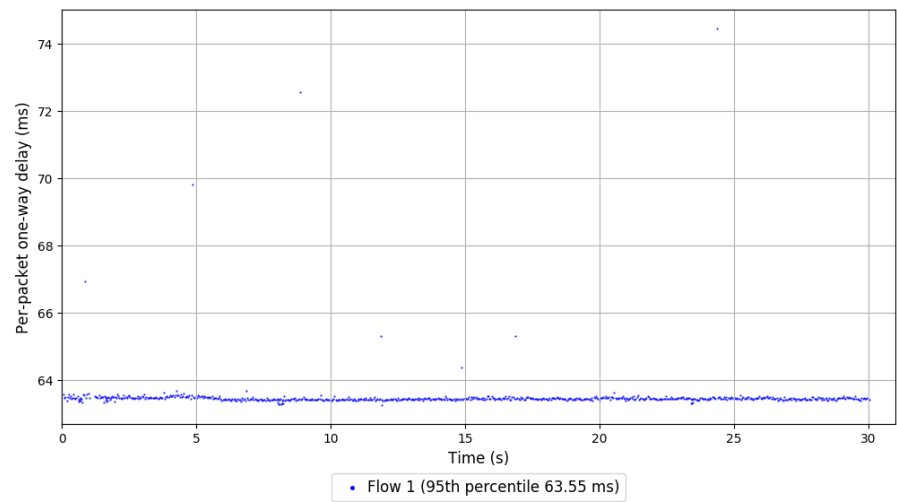
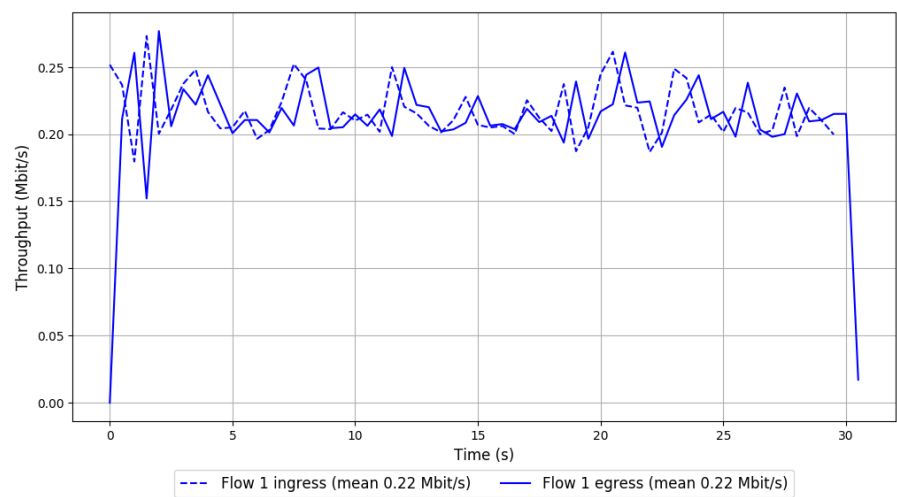
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.546 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

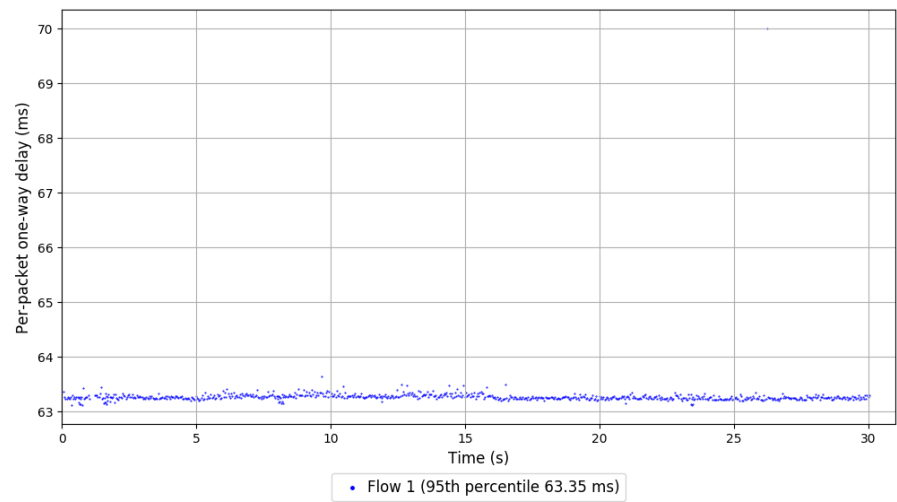
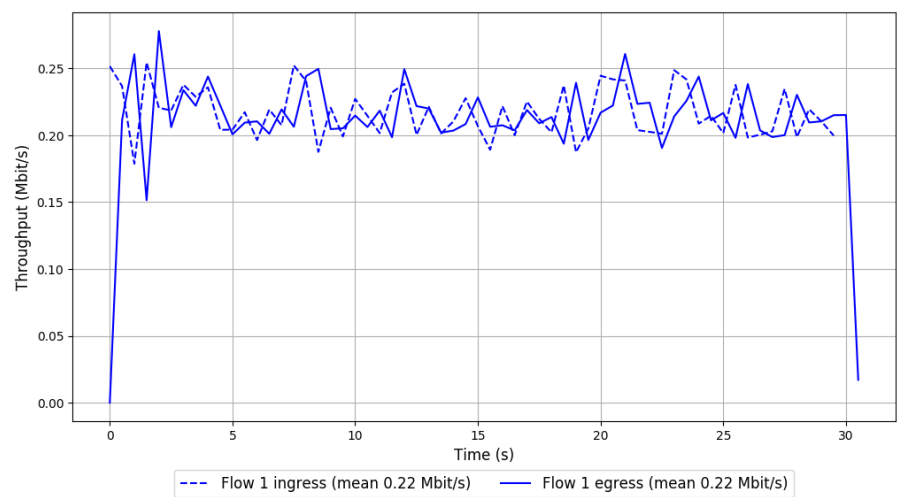


Run 5: Statistics of SCReAM

Start at: 2019-03-09 08:19:59  
End at: 2019-03-09 08:20:29  
Local clock offset: 0.012 ms  
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2019-03-09 10:23:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.351 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.351 ms  
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

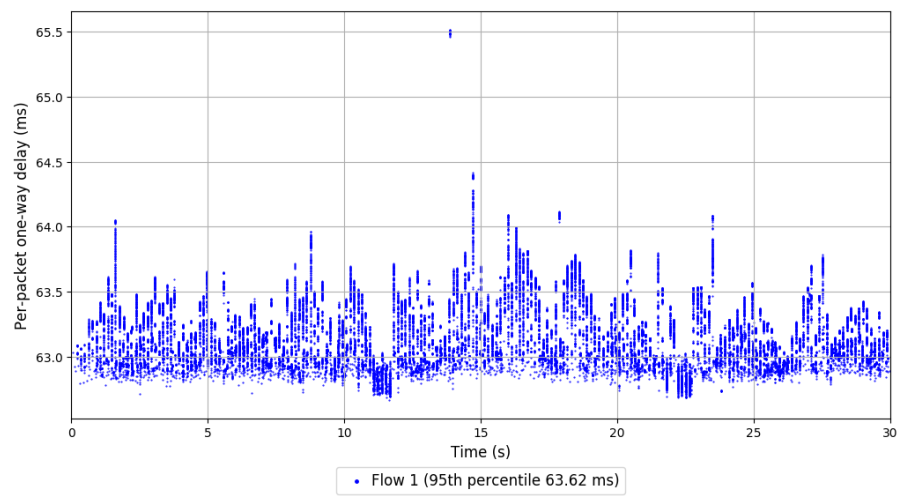
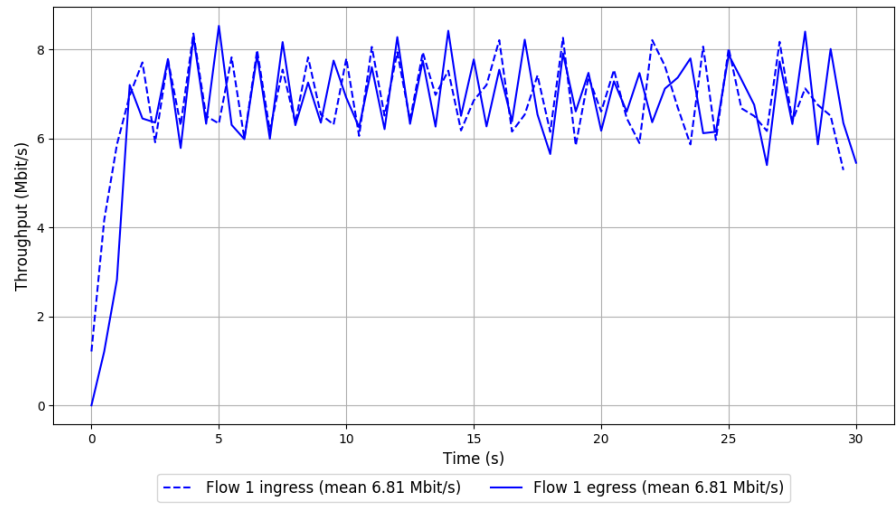


Run 1: Statistics of Sprout

Start at: 2019-03-09 06:29:21  
End at: 2019-03-09 06:29:51  
Local clock offset: -0.111 ms  
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2019-03-09 10:23:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 6.81 Mbit/s  
95th percentile per-packet one-way delay: 63.619 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 6.81 Mbit/s  
95th percentile per-packet one-way delay: 63.619 ms  
Loss rate: 0.00%

# Run 1: Report of Sprout — Data Link



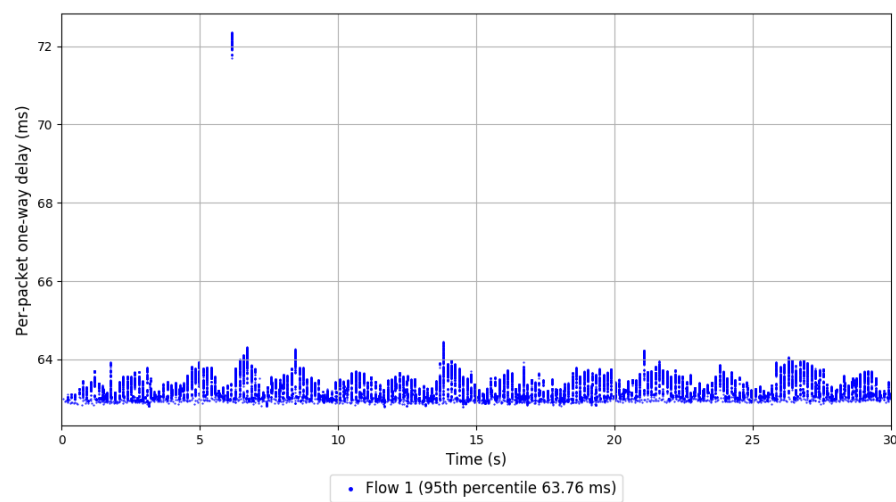
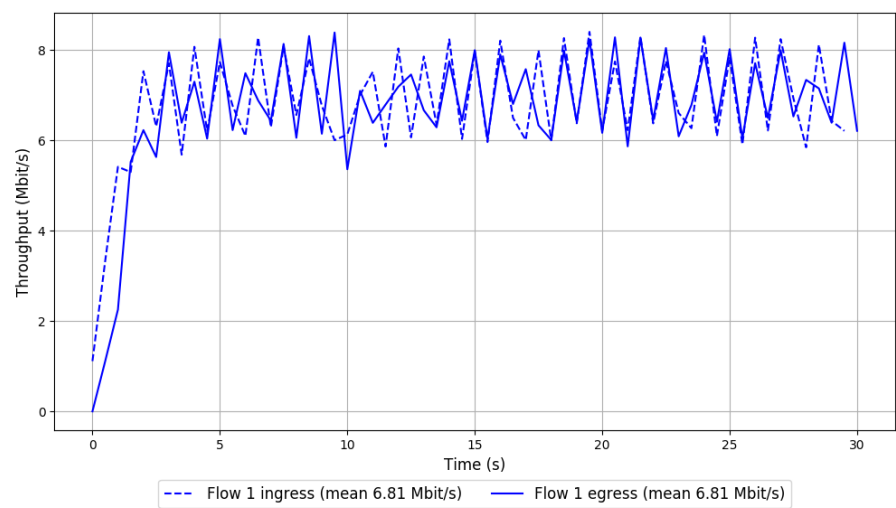


Run 2: Statistics of Sprout

Start at: 2019-03-09 07:00:25  
End at: 2019-03-09 07:00:55  
Local clock offset: -0.108 ms  
Remote clock offset: -0.15 ms

# Below is generated by plot.py at 2019-03-09 10:23:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 6.81 Mbit/s  
95th percentile per-packet one-way delay: 63.761 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 6.81 Mbit/s  
95th percentile per-packet one-way delay: 63.761 ms  
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

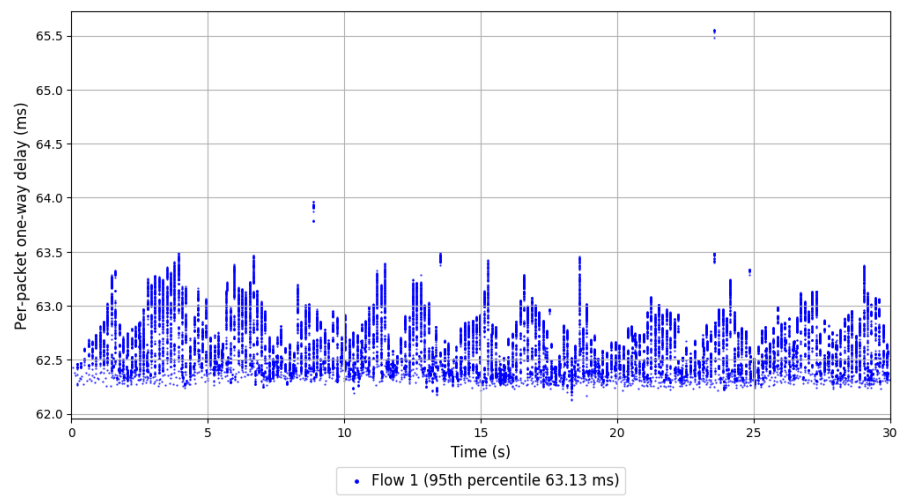
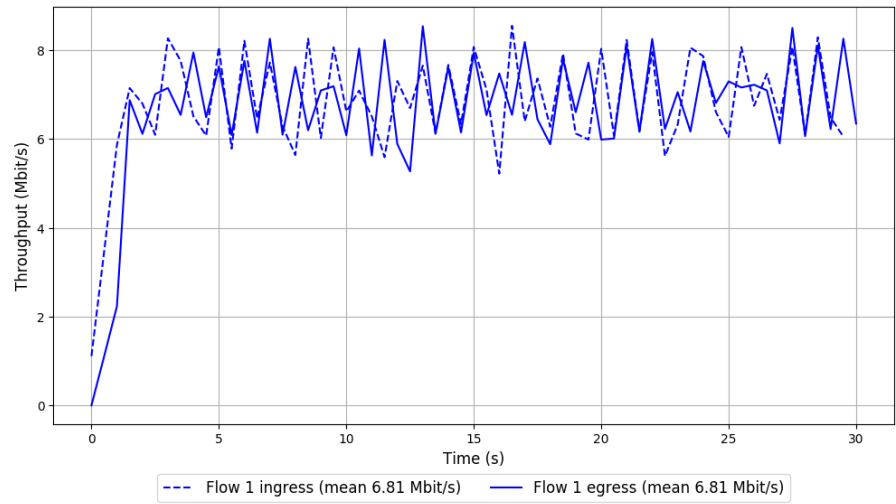


Run 3: Statistics of Sprout

Start at: 2019-03-09 07:31:07  
End at: 2019-03-09 07:31:37  
Local clock offset: -0.139 ms  
Remote clock offset: -0.729 ms

# Below is generated by plot.py at 2019-03-09 10:23:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 6.81 Mbit/s  
95th percentile per-packet one-way delay: 63.127 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 6.81 Mbit/s  
95th percentile per-packet one-way delay: 63.127 ms  
Loss rate: 0.00%

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



Run 4: Statistics of Sprout

Start at: 2019-03-09 08:02:17

End at: 2019-03-09 08:02:47

Local clock offset: 0.02 ms

Remote clock offset: 0.115 ms

# Below is generated by plot.py at 2019-03-09 10:23:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.86 Mbit/s

95th percentile per-packet one-way delay: 64.194 ms

Loss rate: 0.00%

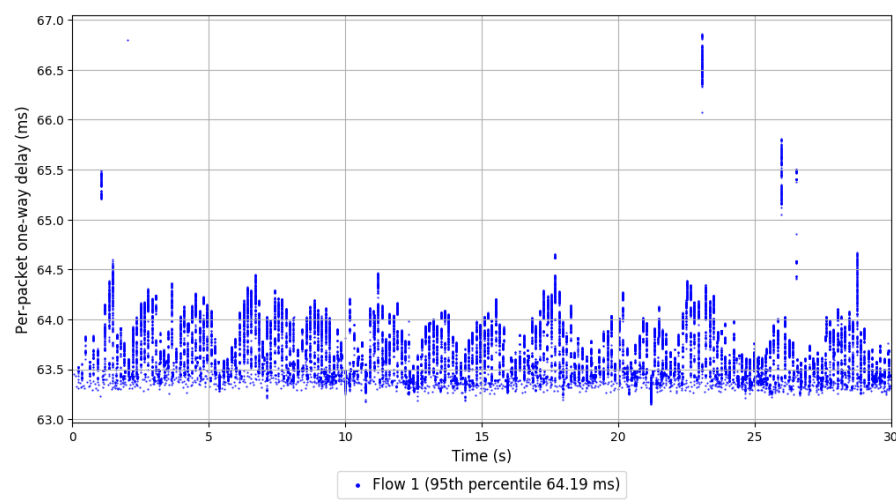
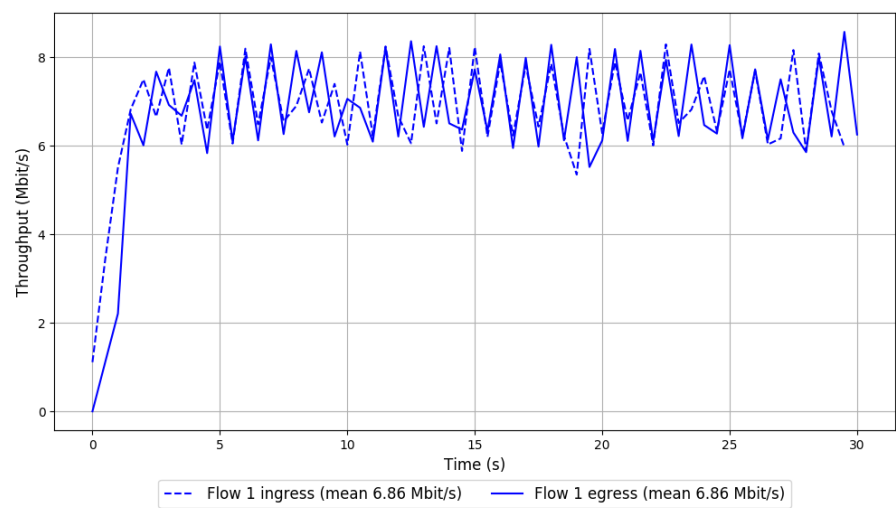
-- Flow 1:

Average throughput: 6.86 Mbit/s

95th percentile per-packet one-way delay: 64.194 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

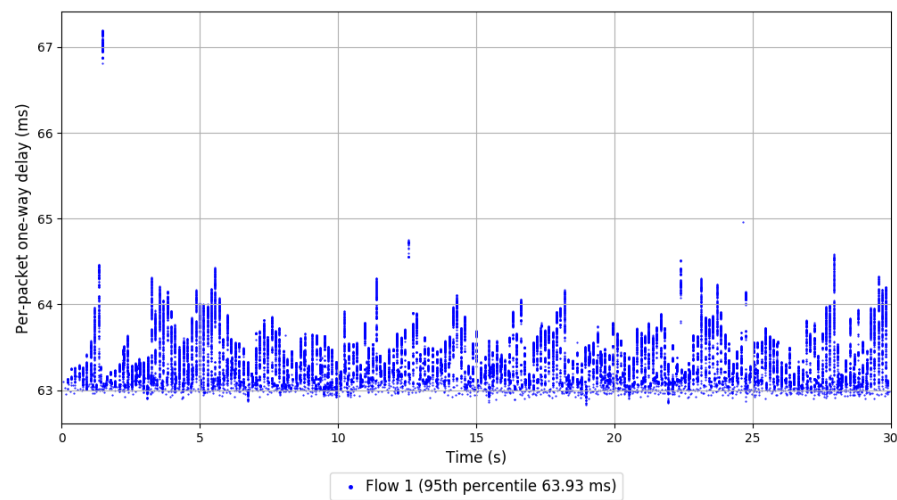
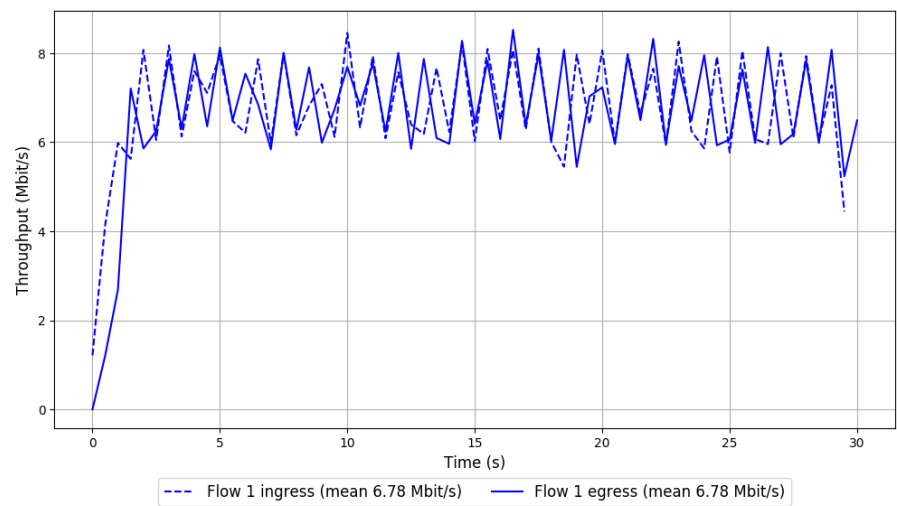


Run 5: Statistics of Sprout

Start at: 2019-03-09 08:33:22  
End at: 2019-03-09 08:33:52  
Local clock offset: -0.059 ms  
Remote clock offset: -0.156 ms

# Below is generated by plot.py at 2019-03-09 10:23:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 6.78 Mbit/s  
95th percentile per-packet one-way delay: 63.931 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 6.78 Mbit/s  
95th percentile per-packet one-way delay: 63.931 ms  
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



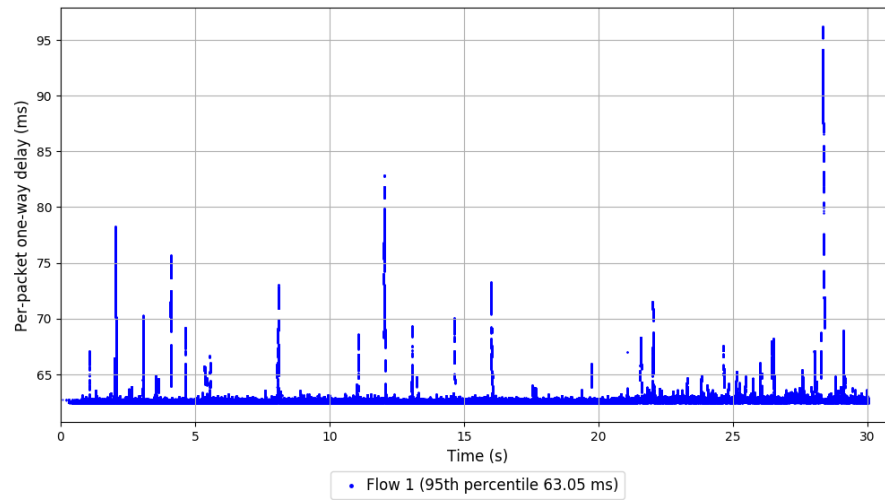
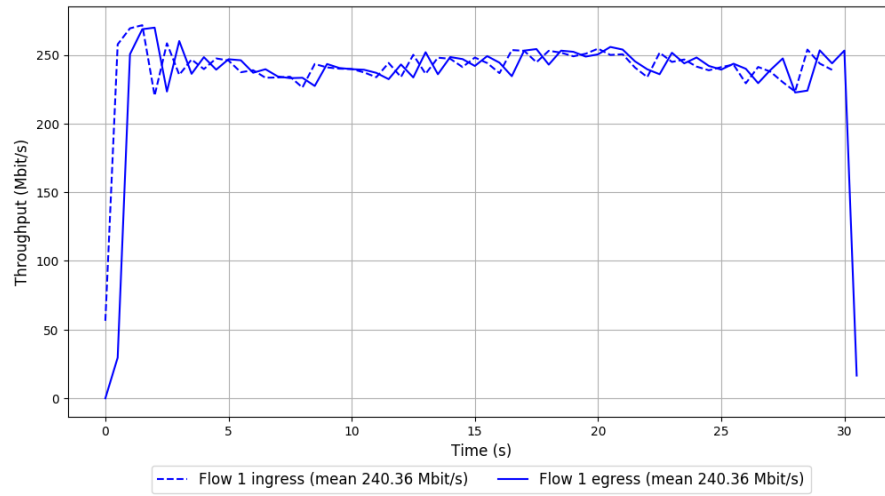


Run 1: Statistics of TaoVA-100x

Start at: 2019-03-09 06:20:07  
End at: 2019-03-09 06:20:37  
Local clock offset: -0.106 ms  
Remote clock offset: -0.366 ms

# Below is generated by plot.py at 2019-03-09 10:25:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 240.36 Mbit/s  
95th percentile per-packet one-way delay: 63.048 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 240.36 Mbit/s  
95th percentile per-packet one-way delay: 63.048 ms  
Loss rate: 0.00%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-03-09 06:51:13

End at: 2019-03-09 06:51:43

Local clock offset: -0.112 ms

Remote clock offset: -0.16 ms

# Below is generated by plot.py at 2019-03-09 10:25:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 241.51 Mbit/s

95th percentile per-packet one-way delay: 63.448 ms

Loss rate: 0.00%

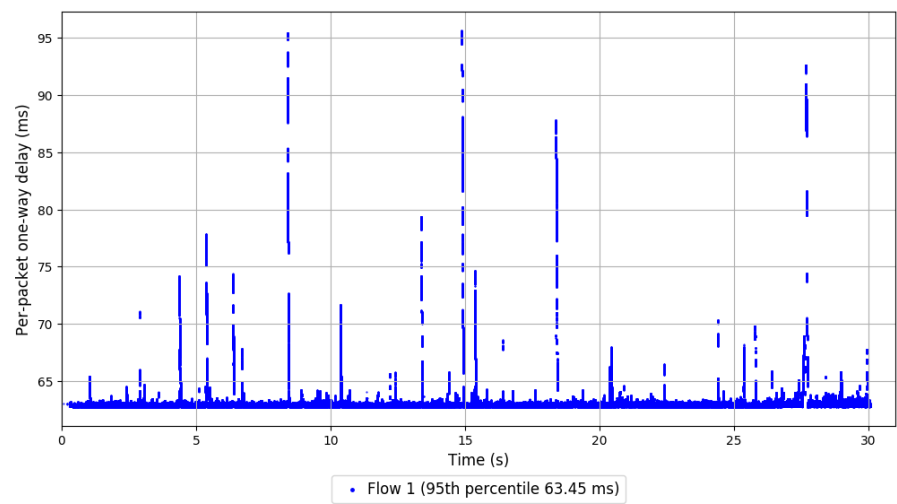
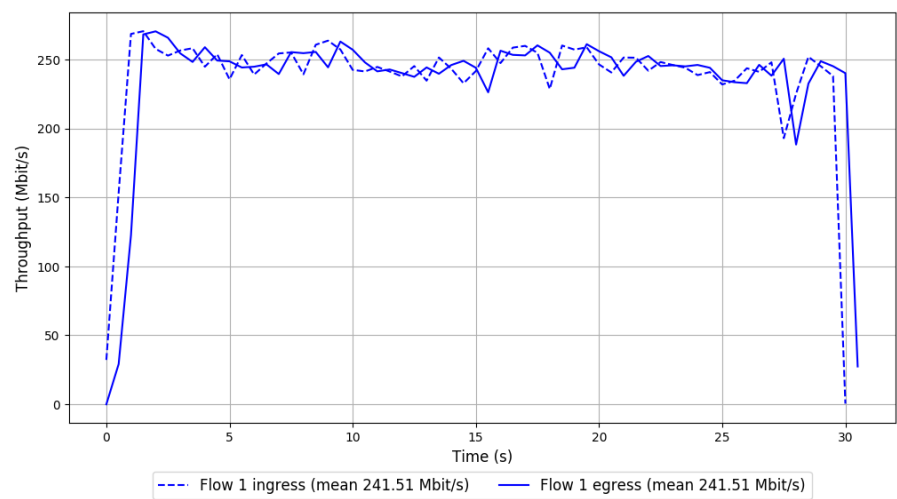
-- Flow 1:

Average throughput: 241.51 Mbit/s

95th percentile per-packet one-way delay: 63.448 ms

Loss rate: 0.00%

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

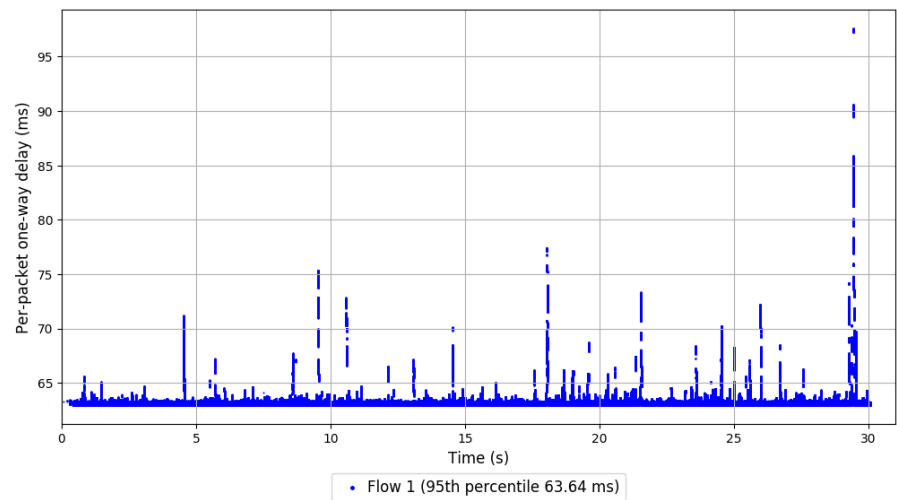
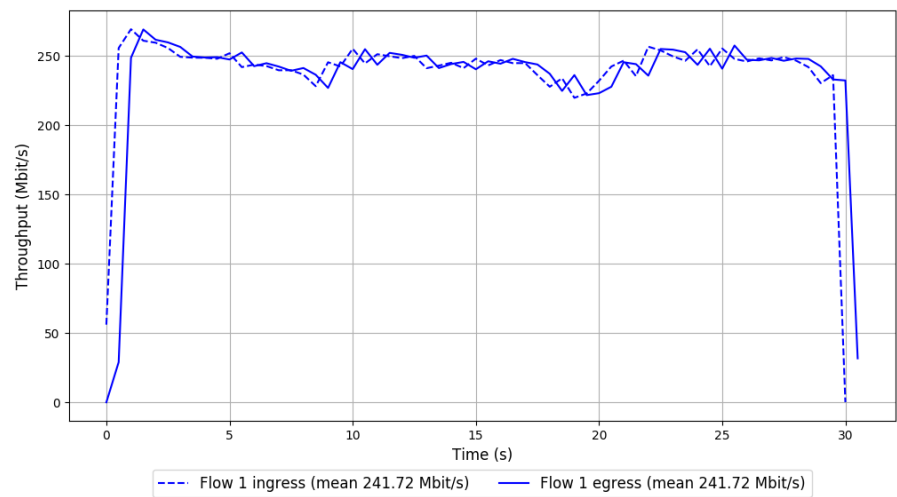


Run 3: Statistics of TaoVA-100x

Start at: 2019-03-09 07:21:59  
End at: 2019-03-09 07:22:29  
Local clock offset: -0.099 ms  
Remote clock offset: -0.168 ms

# Below is generated by plot.py at 2019-03-09 10:25:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 241.72 Mbit/s  
95th percentile per-packet one-way delay: 63.638 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 241.72 Mbit/s  
95th percentile per-packet one-way delay: 63.638 ms  
Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-03-09 07:53:05

End at: 2019-03-09 07:53:35

Local clock offset: -0.041 ms

Remote clock offset: 0.137 ms

# Below is generated by plot.py at 2019-03-09 10:25:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 242.35 Mbit/s

95th percentile per-packet one-way delay: 63.620 ms

Loss rate: 0.00%

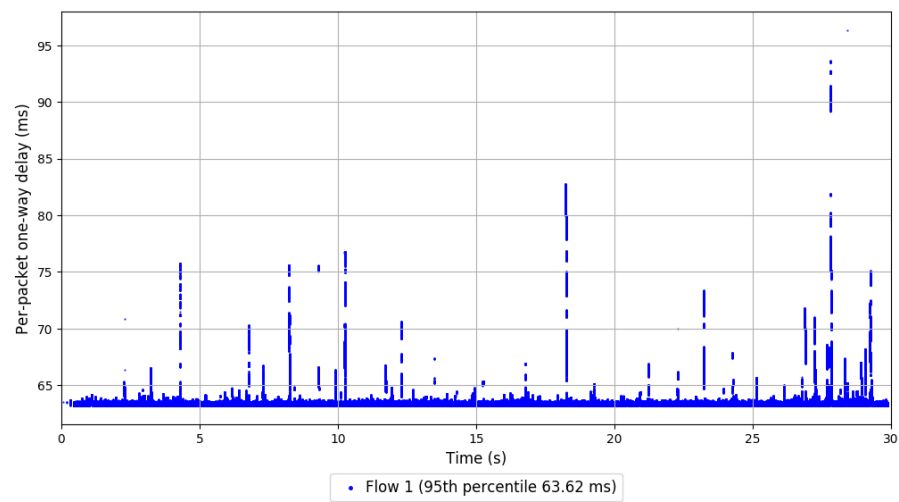
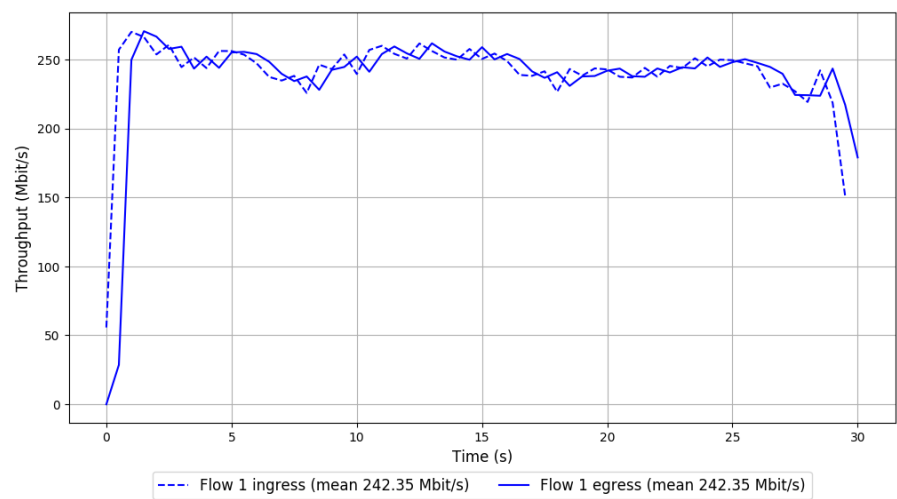
-- Flow 1:

Average throughput: 242.35 Mbit/s

95th percentile per-packet one-way delay: 63.620 ms

Loss rate: 0.00%

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





Run 5: Statistics of TaoVA-100x

Start at: 2019-03-09 08:24:12

End at: 2019-03-09 08:24:42

Local clock offset: -0.007 ms

Remote clock offset: 0.115 ms

# Below is generated by plot.py at 2019-03-09 10:25:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 241.50 Mbit/s

95th percentile per-packet one-way delay: 63.924 ms

Loss rate: 0.00%

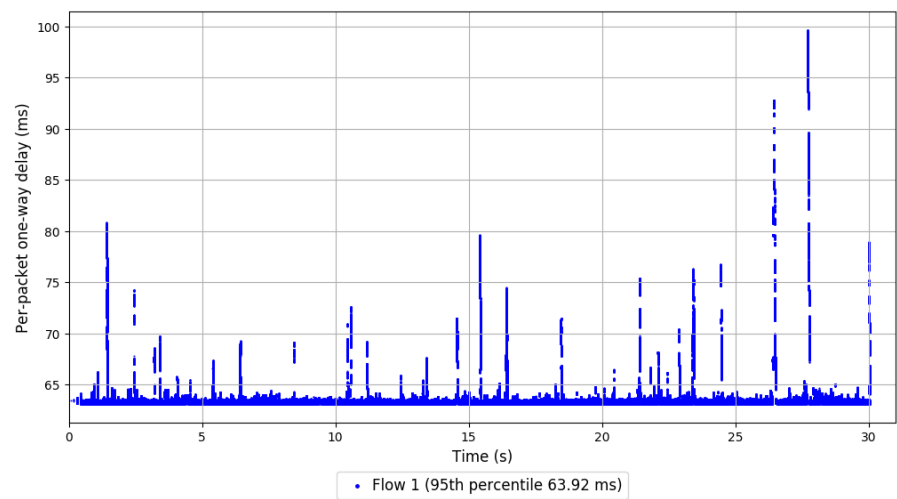
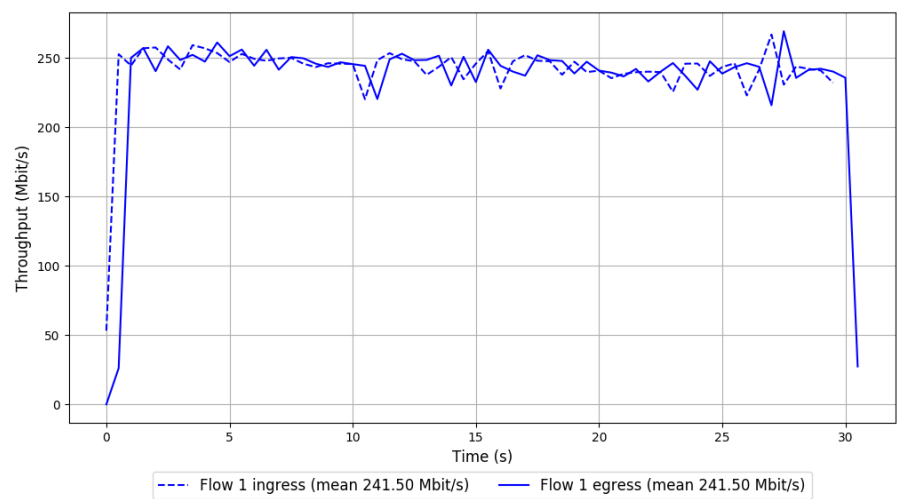
-- Flow 1:

Average throughput: 241.50 Mbit/s

95th percentile per-packet one-way delay: 63.924 ms

Loss rate: 0.00%

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

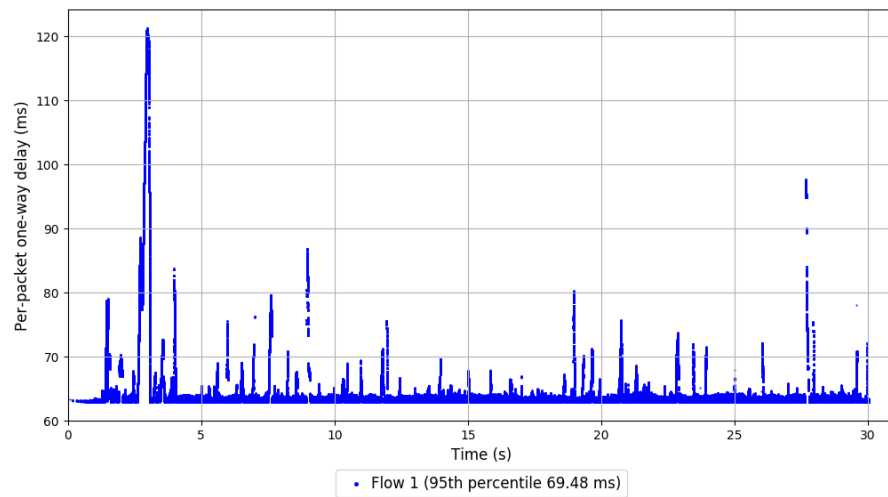
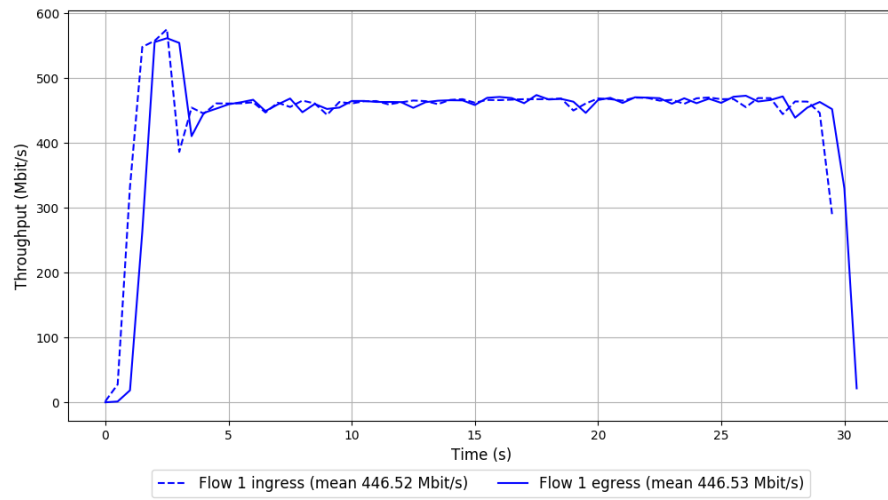


Run 1: Statistics of TCP Vegas

Start at: 2019-03-09 06:35:10  
End at: 2019-03-09 06:35:40  
Local clock offset: -0.144 ms  
Remote clock offset: -0.343 ms

# Below is generated by plot.py at 2019-03-09 10:25:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 446.53 Mbit/s  
95th percentile per-packet one-way delay: 69.479 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 446.53 Mbit/s  
95th percentile per-packet one-way delay: 69.479 ms  
Loss rate: 0.00%

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

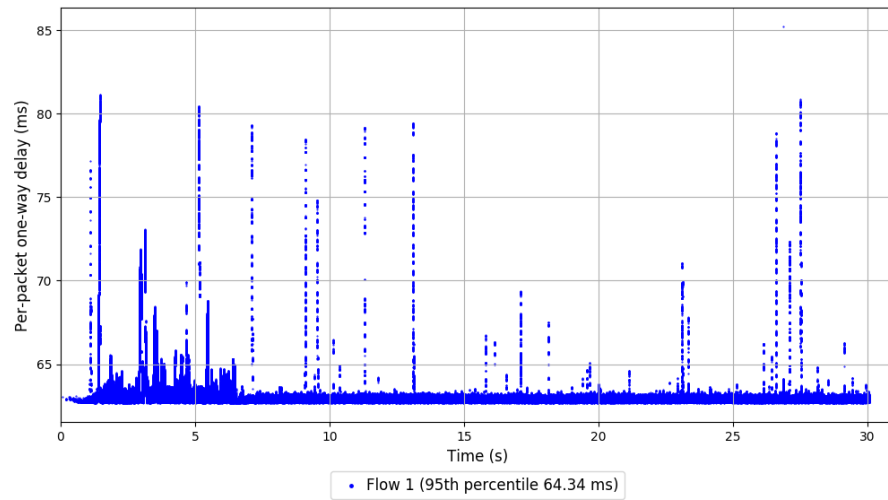
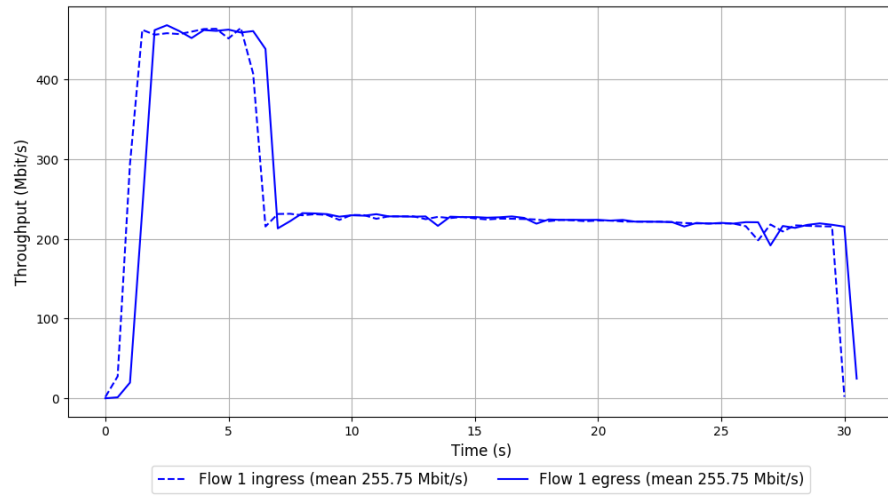


Run 2: Statistics of TCP Vegas

Start at: 2019-03-09 07:06:07  
End at: 2019-03-09 07:06:37  
Local clock offset: -0.098 ms  
Remote clock offset: -0.176 ms

# Below is generated by plot.py at 2019-03-09 10:27:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 255.75 Mbit/s  
95th percentile per-packet one-way delay: 64.343 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 255.75 Mbit/s  
95th percentile per-packet one-way delay: 64.343 ms  
Loss rate: 0.00%

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



Run 3: Statistics of TCP Vegas

Start at: 2019-03-09 07:36:58

End at: 2019-03-09 07:37:28

Local clock offset: -0.117 ms

Remote clock offset: -0.28 ms

# Below is generated by plot.py at 2019-03-09 10:33:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 540.26 Mbit/s

95th percentile per-packet one-way delay: 105.228 ms

Loss rate: 0.00%

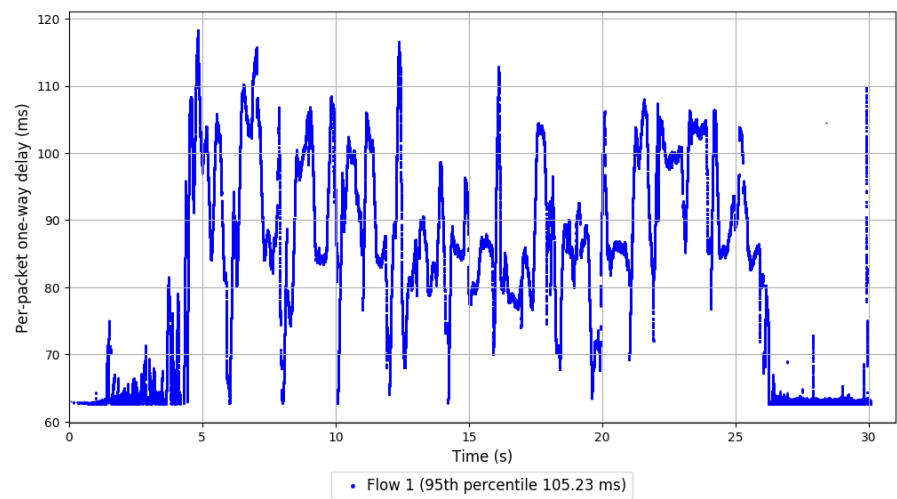
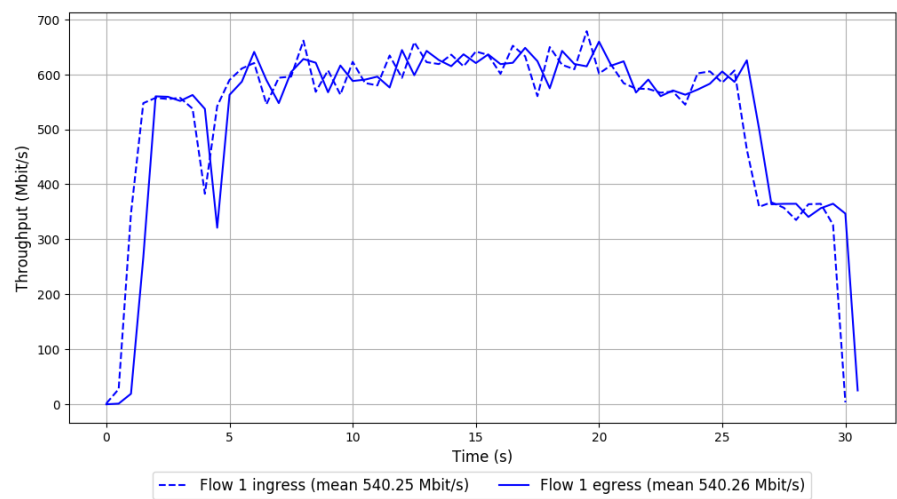
-- Flow 1:

Average throughput: 540.26 Mbit/s

95th percentile per-packet one-way delay: 105.228 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



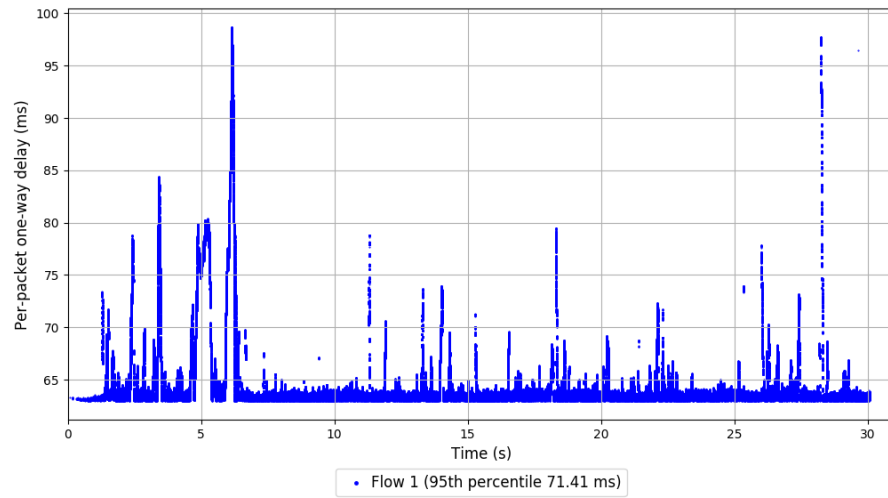
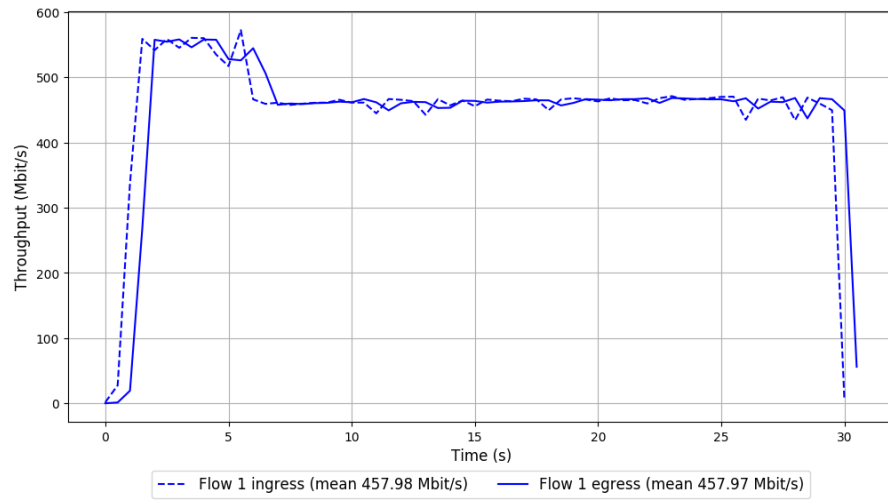


Run 4: Statistics of TCP Vegas

Start at: 2019-03-09 08:08:08  
End at: 2019-03-09 08:08:38  
Local clock offset: -0.019 ms  
Remote clock offset: 0.079 ms

# Below is generated by plot.py at 2019-03-09 10:33:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 457.97 Mbit/s  
95th percentile per-packet one-way delay: 71.414 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 457.97 Mbit/s  
95th percentile per-packet one-way delay: 71.414 ms  
Loss rate: 0.00%

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



Run 5: Statistics of TCP Vegas

Start at: 2019-03-09 08:39:10

End at: 2019-03-09 08:39:40

Local clock offset: -0.115 ms

Remote clock offset: 0.02 ms

# Below is generated by plot.py at 2019-03-09 10:34:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 500.77 Mbit/s

95th percentile per-packet one-way delay: 76.593 ms

Loss rate: 0.01%

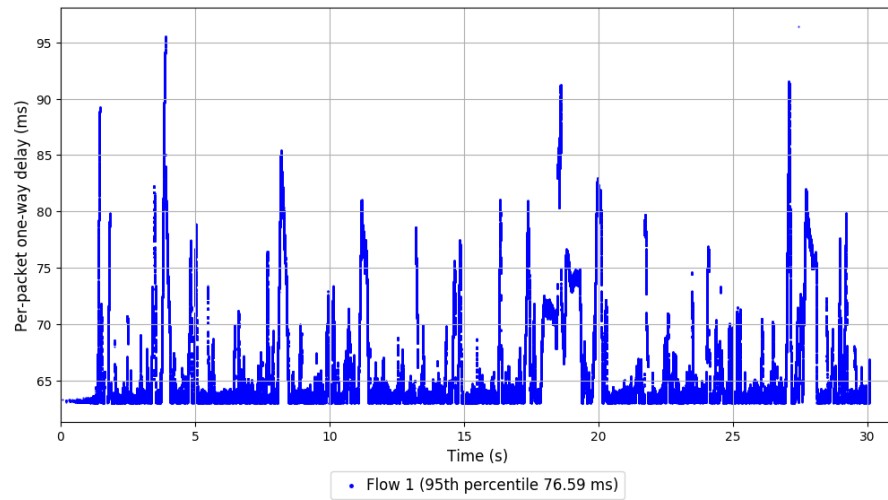
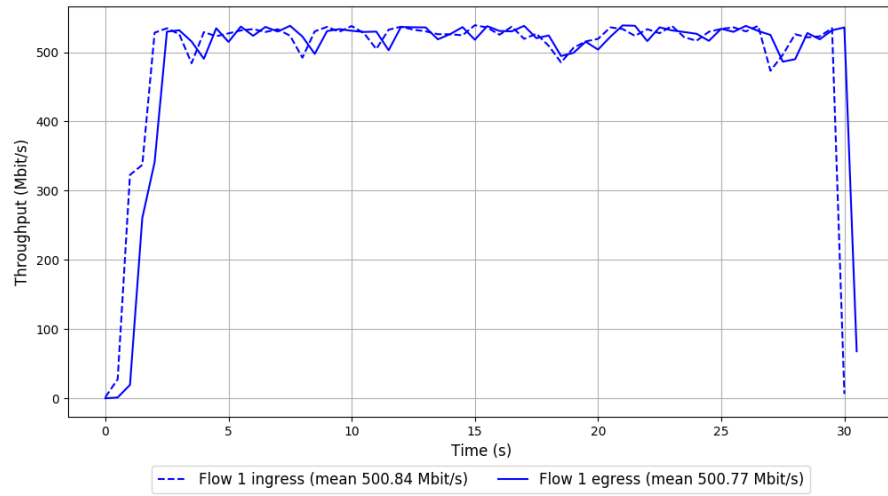
-- Flow 1:

Average throughput: 500.77 Mbit/s

95th percentile per-packet one-way delay: 76.593 ms

Loss rate: 0.01%

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

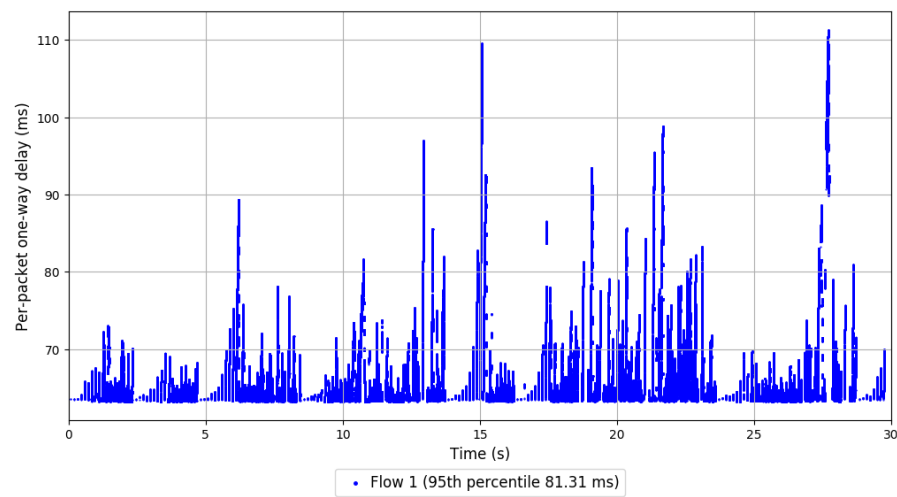
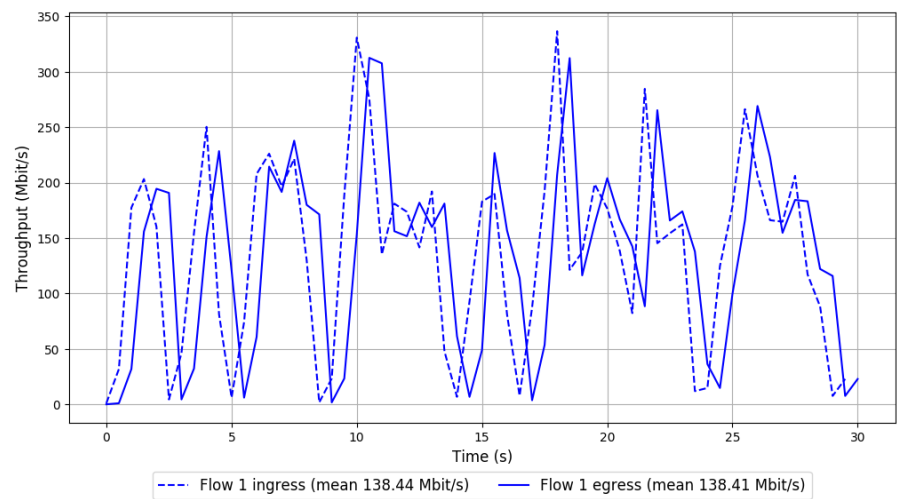


Run 1: Statistics of Verus

Start at: 2019-03-09 06:11:33  
End at: 2019-03-09 06:12:03  
Local clock offset: -0.13 ms  
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2019-03-09 10:34:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 138.41 Mbit/s  
95th percentile per-packet one-way delay: 81.310 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 138.41 Mbit/s  
95th percentile per-packet one-way delay: 81.310 ms  
Loss rate: 0.00%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-03-09 06:42:11

End at: 2019-03-09 06:42:41

Local clock offset: -0.102 ms

Remote clock offset: -0.18 ms

# Below is generated by plot.py at 2019-03-09 10:34:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 170.73 Mbit/s

95th percentile per-packet one-way delay: 131.097 ms

Loss rate: 0.00%

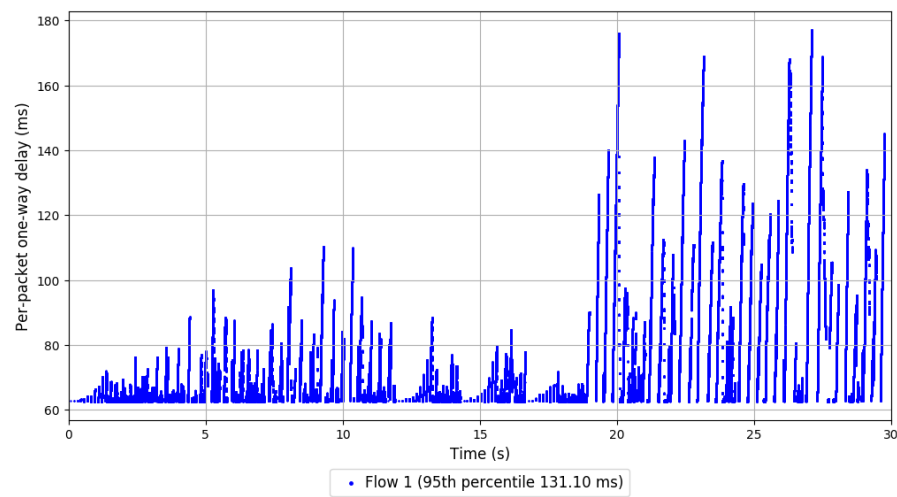
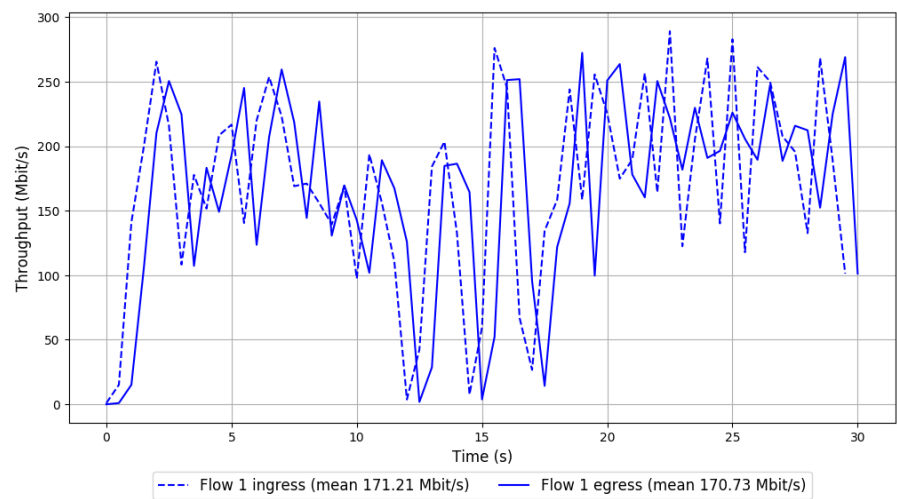
-- Flow 1:

Average throughput: 170.73 Mbit/s

95th percentile per-packet one-way delay: 131.097 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



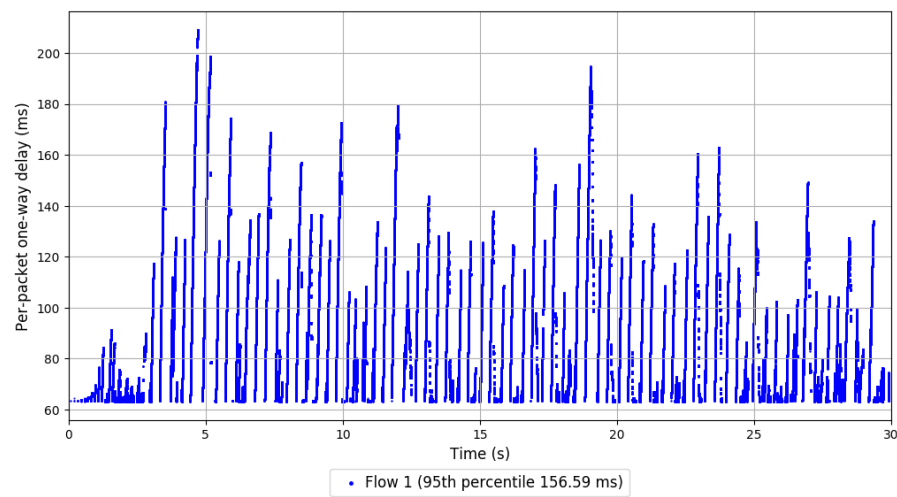
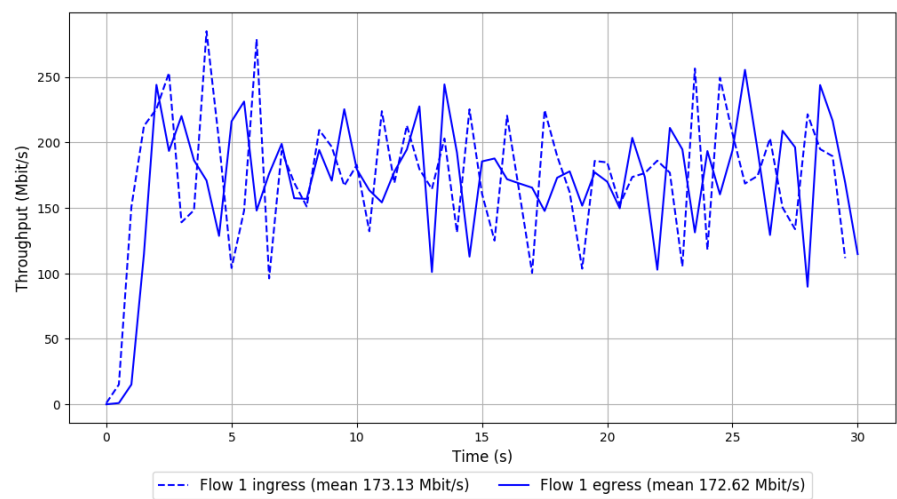


Run 3: Statistics of Verus

Start at: 2019-03-09 07:13:00  
End at: 2019-03-09 07:13:30  
Local clock offset: -0.074 ms  
Remote clock offset: 0.066 ms

# Below is generated by plot.py at 2019-03-09 10:34:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 172.62 Mbit/s  
95th percentile per-packet one-way delay: 156.585 ms  
Loss rate: 0.30%  
-- Flow 1:  
Average throughput: 172.62 Mbit/s  
95th percentile per-packet one-way delay: 156.585 ms  
Loss rate: 0.30%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-03-09 07:44:05

End at: 2019-03-09 07:44:35

Local clock offset: -0.119 ms

Remote clock offset: 0.067 ms

# Below is generated by plot.py at 2019-03-09 10:34:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 181.76 Mbit/s

95th percentile per-packet one-way delay: 143.465 ms

Loss rate: 0.00%

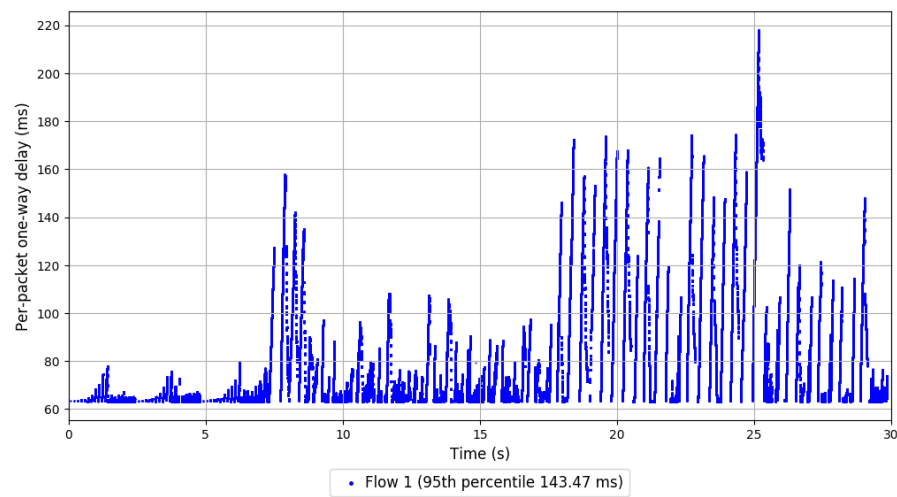
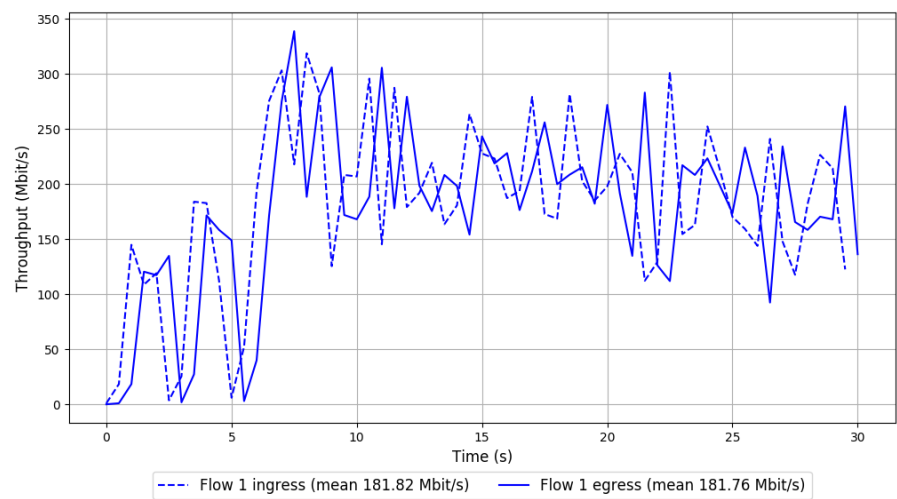
-- Flow 1:

Average throughput: 181.76 Mbit/s

95th percentile per-packet one-way delay: 143.465 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-03-09 08:15:09

End at: 2019-03-09 08:15:39

Local clock offset: -0.015 ms

Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2019-03-09 10:34:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 178.43 Mbit/s

95th percentile per-packet one-way delay: 166.169 ms

Loss rate: 0.18%

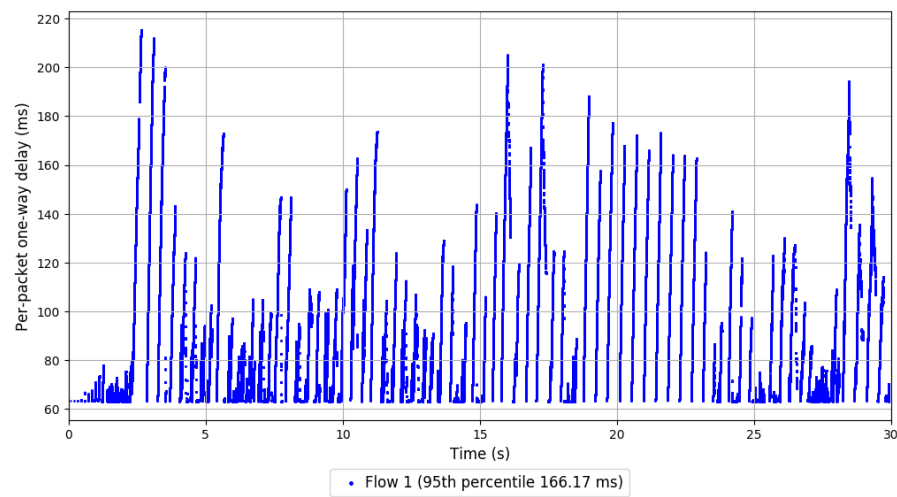
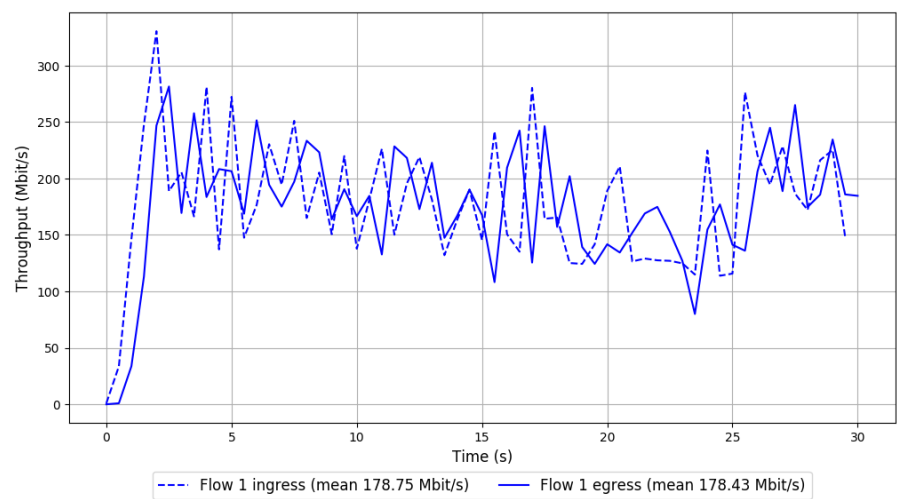
-- Flow 1:

Average throughput: 178.43 Mbit/s

95th percentile per-packet one-way delay: 166.169 ms

Loss rate: 0.18%

Run 5: Report of Verus — Data Link

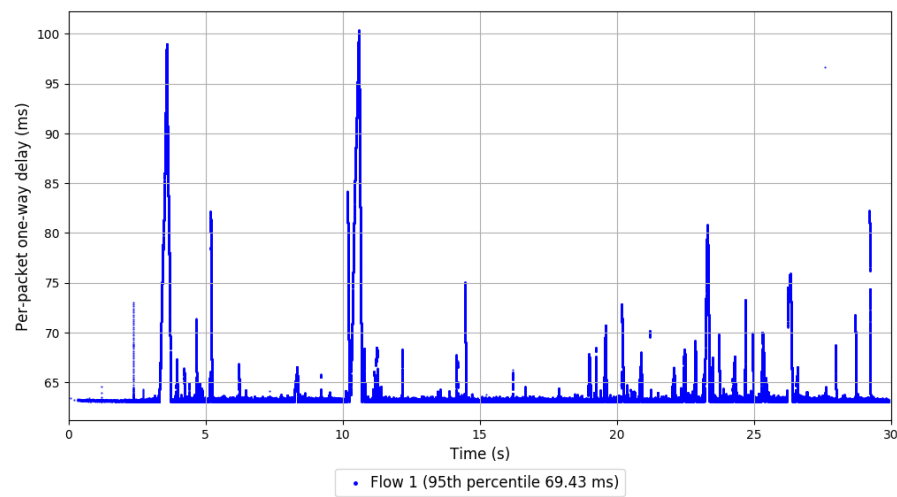
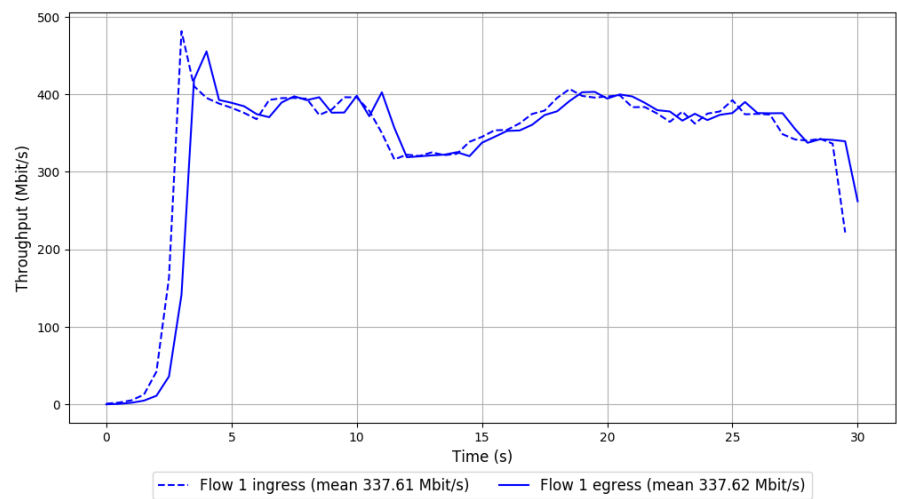


Run 1: Statistics of PCC-Vivace

Start at: 2019-03-09 06:33:38  
End at: 2019-03-09 06:34:08  
Local clock offset: -0.152 ms  
Remote clock offset: -0.208 ms

# Below is generated by plot.py at 2019-03-09 10:35:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 337.62 Mbit/s  
95th percentile per-packet one-way delay: 69.429 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 337.62 Mbit/s  
95th percentile per-packet one-way delay: 69.429 ms  
Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link





Run 2: Statistics of PCC-Vivace

Start at: 2019-03-09 07:04:44

End at: 2019-03-09 07:05:14

Local clock offset: -0.074 ms

Remote clock offset: 0.059 ms

# Below is generated by plot.py at 2019-03-09 10:35:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 207.21 Mbit/s

95th percentile per-packet one-way delay: 63.021 ms

Loss rate: 0.00%

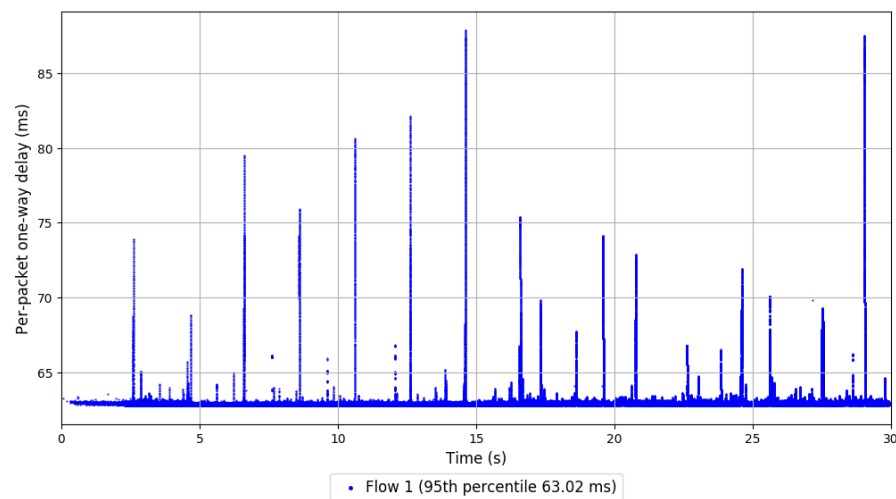
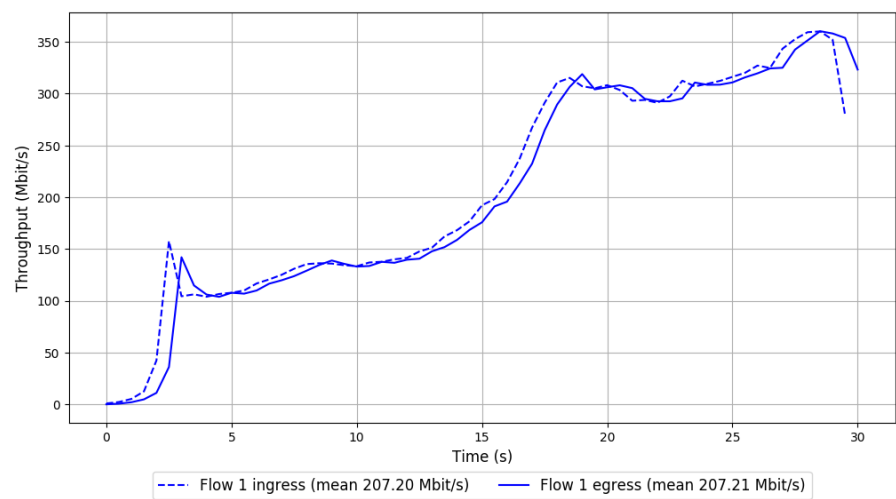
-- Flow 1:

Average throughput: 207.21 Mbit/s

95th percentile per-packet one-way delay: 63.021 ms

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link

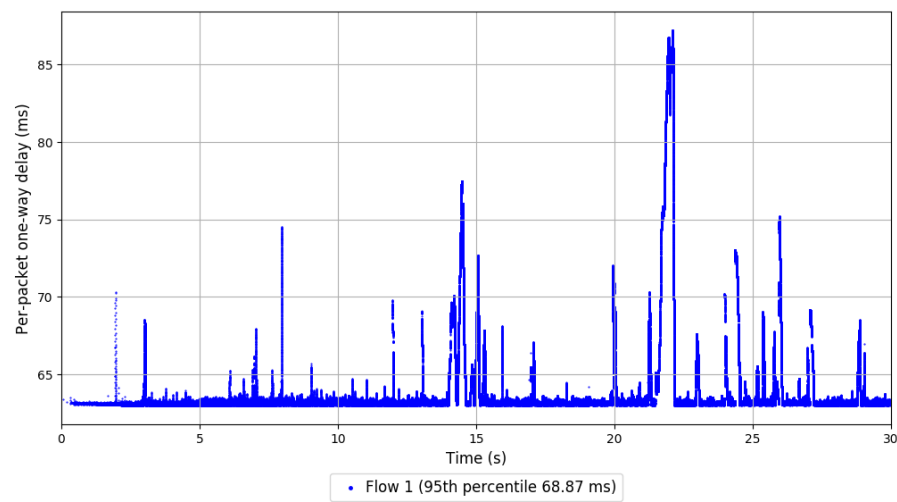
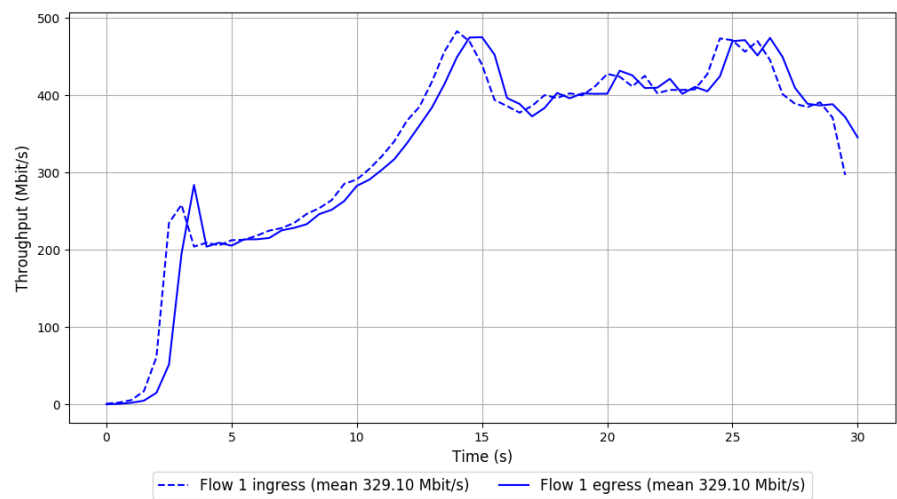


Run 3: Statistics of PCC-Vivace

Start at: 2019-03-09 07:35:28  
End at: 2019-03-09 07:35:58  
Local clock offset: -0.075 ms  
Remote clock offset: -0.129 ms

# Below is generated by plot.py at 2019-03-09 10:35:42  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 329.10 Mbit/s  
95th percentile per-packet one-way delay: 68.869 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 329.10 Mbit/s  
95th percentile per-packet one-way delay: 68.869 ms  
Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link

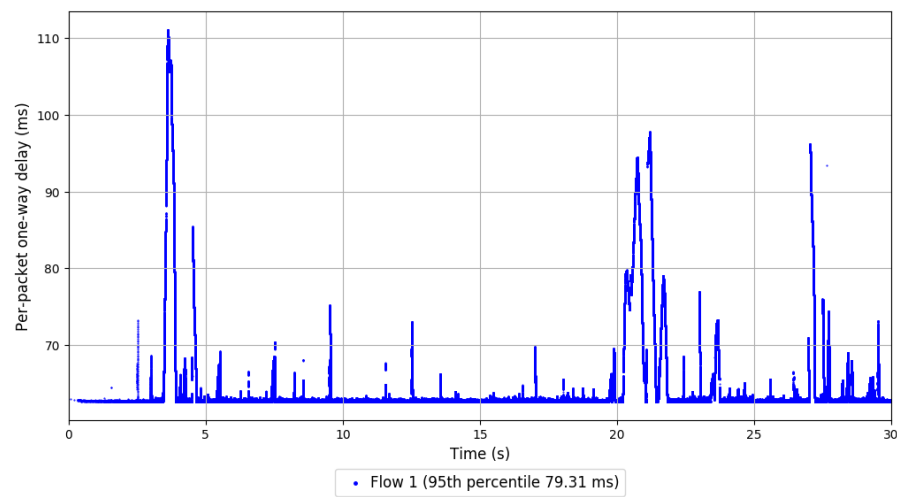
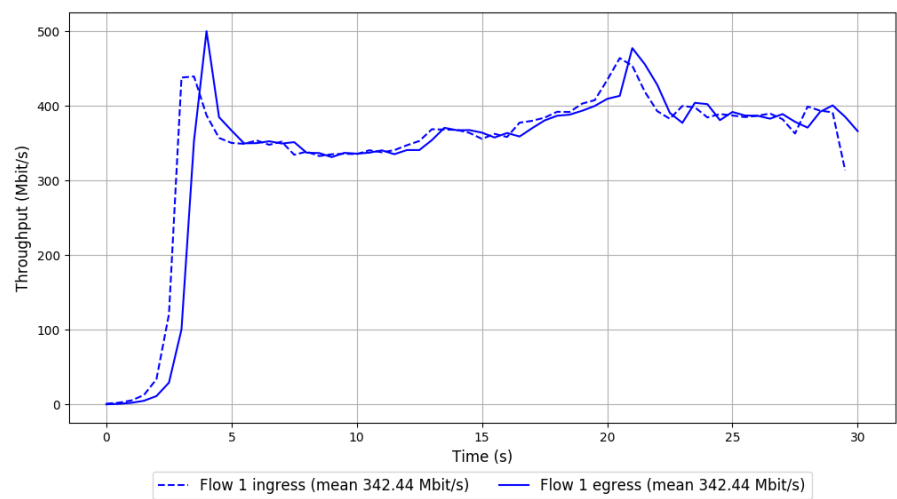


Run 4: Statistics of PCC-Vivace

Start at: 2019-03-09 08:06:36  
End at: 2019-03-09 08:07:06  
Local clock offset: -0.003 ms  
Remote clock offset: -0.181 ms

# Below is generated by plot.py at 2019-03-09 10:35:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 342.44 Mbit/s  
95th percentile per-packet one-way delay: 79.305 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 342.44 Mbit/s  
95th percentile per-packet one-way delay: 79.305 ms  
Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link

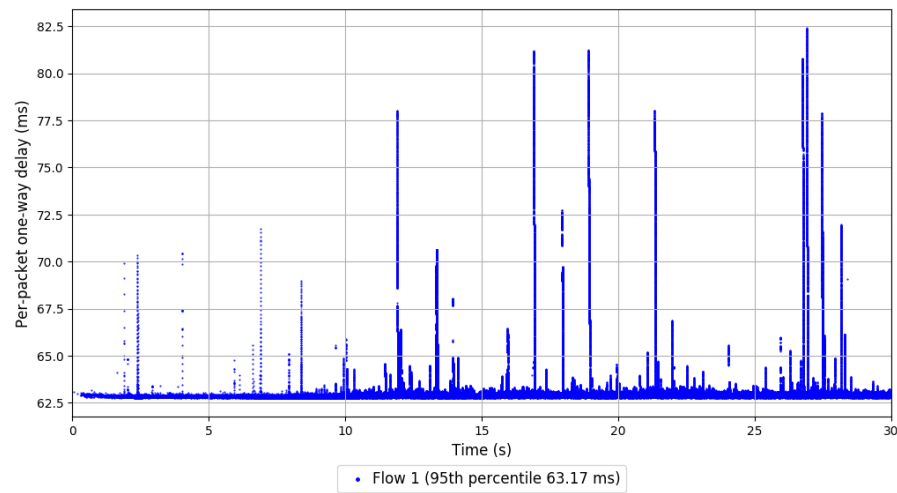
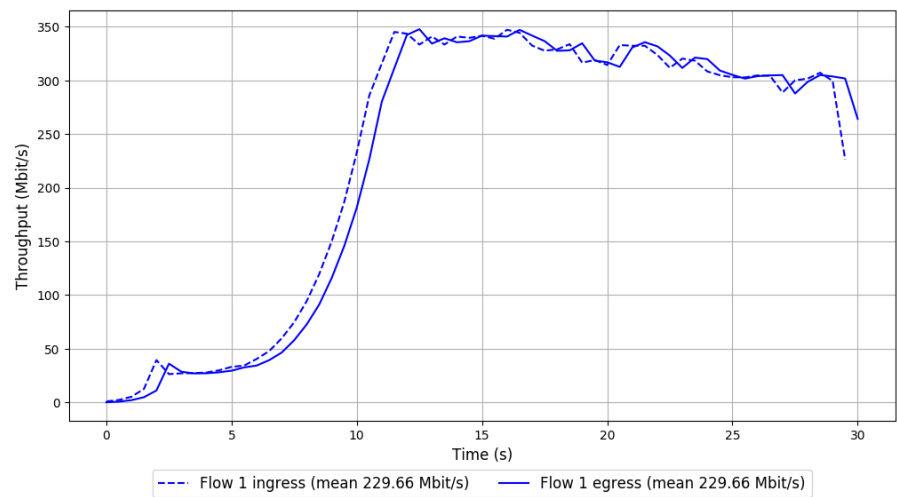


Run 5: Statistics of PCC-Vivace

Start at: 2019-03-09 08:37:47  
End at: 2019-03-09 08:38:17  
Local clock offset: -0.113 ms  
Remote clock offset: -0.213 ms

# Below is generated by plot.py at 2019-03-09 10:35:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 229.66 Mbit/s  
95th percentile per-packet one-way delay: 63.170 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 229.66 Mbit/s  
95th percentile per-packet one-way delay: 63.170 ms  
Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link





Run 1: Statistics of WebRTC media

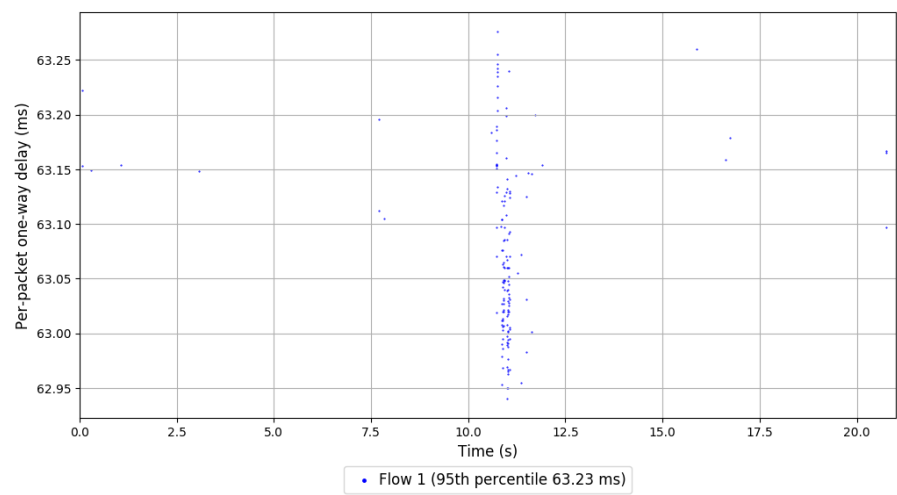
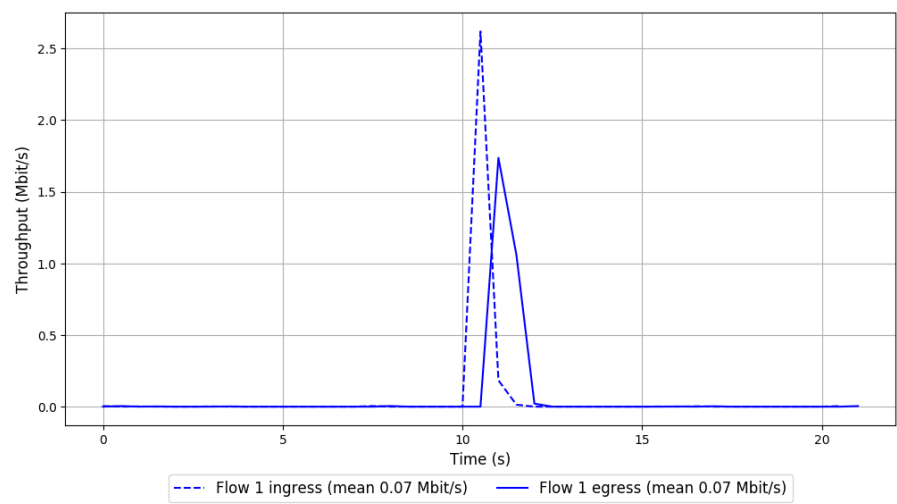
Start at: 2019-03-09 06:10:25

End at: 2019-03-09 06:10:55

Local clock offset: -0.1 ms

Remote clock offset: -0.357 ms

Run 1: Report of WebRTC media — Data Link

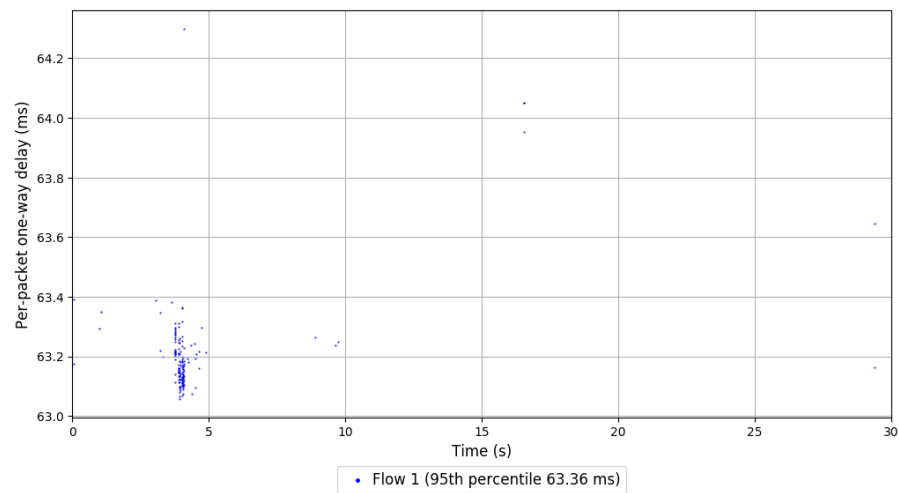
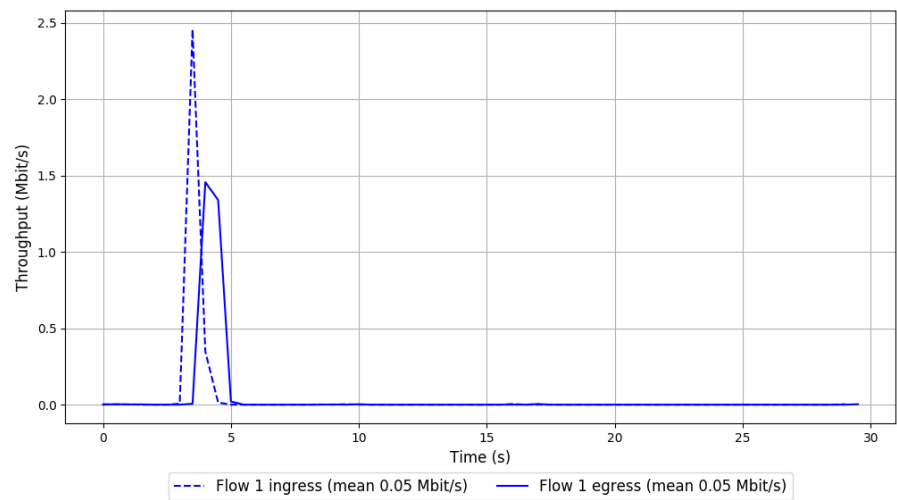


Run 2: Statistics of WebRTC media

Start at: 2019-03-09 06:41:03  
End at: 2019-03-09 06:41:33  
Local clock offset: -0.126 ms  
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2019-03-09 10:35:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 63.364 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 63.364 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

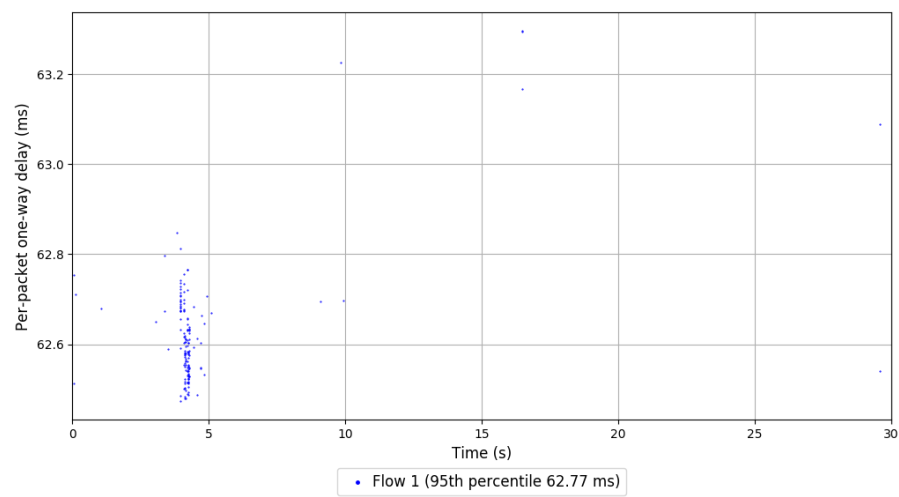
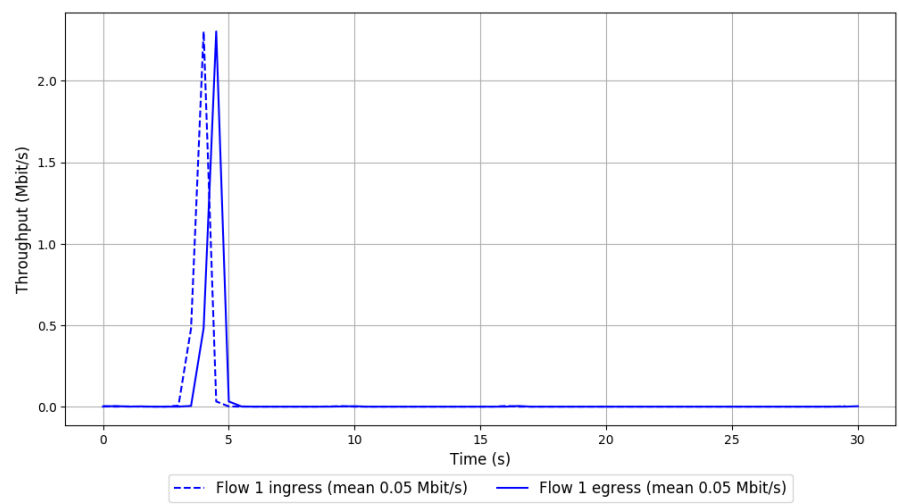


Run 3: Statistics of WebRTC media

Start at: 2019-03-09 07:11:52  
End at: 2019-03-09 07:12:22  
Local clock offset: -0.068 ms  
Remote clock offset: -0.184 ms

# Below is generated by plot.py at 2019-03-09 10:35:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 62.766 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 62.766 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-03-09 07:42:56

End at: 2019-03-09 07:43:26

Local clock offset: -0.084 ms

Remote clock offset: -0.26 ms

# Below is generated by plot.py at 2019-03-09 10:35:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.68 Mbit/s

95th percentile per-packet one-way delay: 62.851 ms

Loss rate: 0.00%

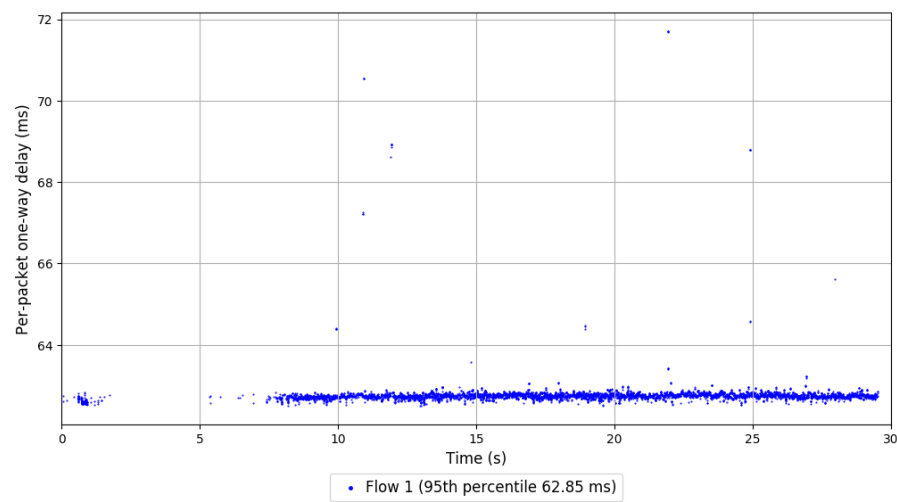
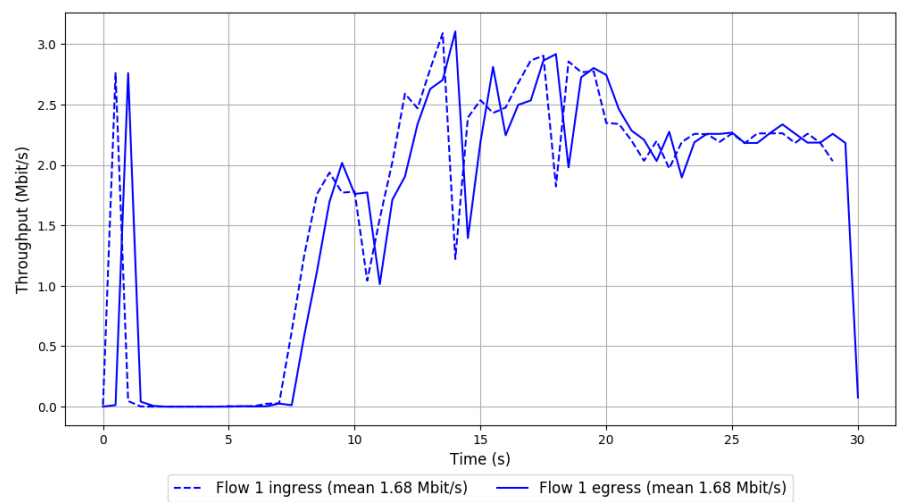
-- Flow 1:

Average throughput: 1.68 Mbit/s

95th percentile per-packet one-way delay: 62.851 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link





Run 5: Statistics of WebRTC media

Start at: 2019-03-09 08:14:01

End at: 2019-03-09 08:14:31

Local clock offset: 0.0 ms

Remote clock offset: 0.024 ms

# Below is generated by plot.py at 2019-03-09 10:35:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.76 Mbit/s

95th percentile per-packet one-way delay: 63.293 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.76 Mbit/s

95th percentile per-packet one-way delay: 63.293 ms

Loss rate: 0.00%

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

