

## Pantheon Report

Generated at 2019-08-27 09:25:32 (UTC).

Data path: Stanford on `eno1` (*remote*) → AWS California 1 on `ens5` (*local*).

Repeated the test of 24 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

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

### System info:

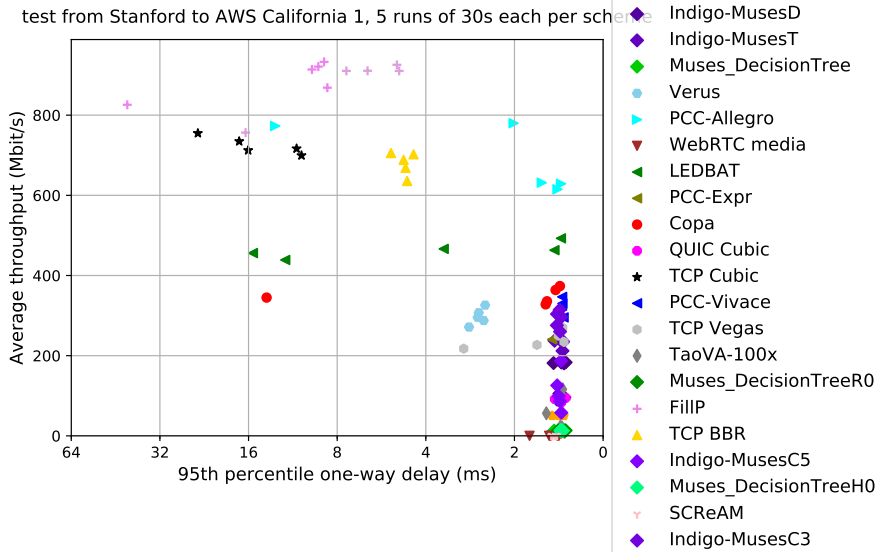
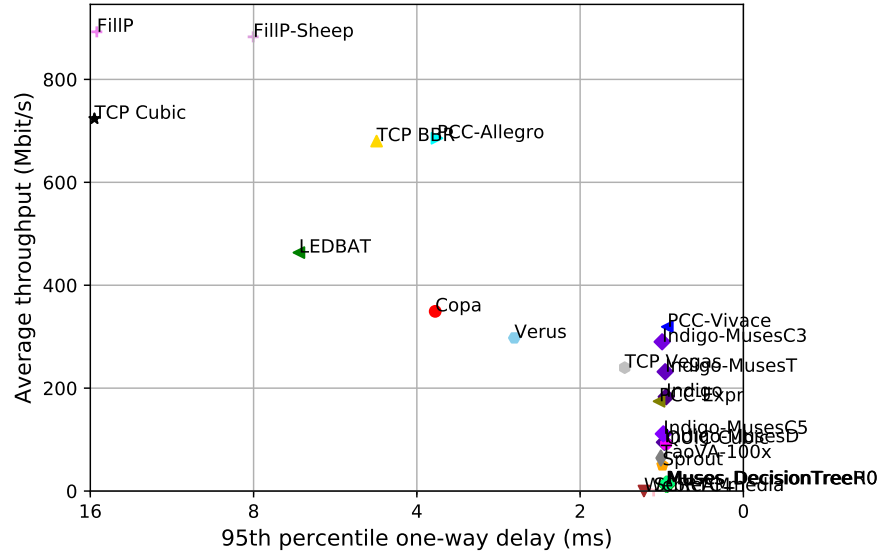
```
Linux 4.15.0-1043-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
```

third\_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4  
third\_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

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



| scheme               | # runs | mean avg tput (Mbit/s)<br>flow 1 | mean 95th-%ile delay (ms)<br>flow 1 | mean loss rate (%)<br>flow 1 |
|----------------------|--------|----------------------------------|-------------------------------------|------------------------------|
| TCP BBR              | 5      | 680.17                           | 4.75                                | 0.02                         |
| Copa                 | 5      | 349.22                           | 3.70                                | 0.00                         |
| TCP Cubic            | 5      | 723.53                           | 15.72                               | 0.04                         |
| FillP                | 5      | 892.41                           | 15.56                               | 0.12                         |
| FillP-Sheep          | 5      | 882.68                           | 8.01                                | 0.03                         |
| Indigo               | 5      | 183.28                           | 0.95                                | 0.01                         |
| Indigo-MusesC3       | 5      | 290.04                           | 1.00                                | 0.00                         |
| Indigo-MusesC5       | 5      | 111.23                           | 0.98                                | 0.01                         |
| Indigo-MusesD        | 5      | 94.83                            | 0.97                                | 0.01                         |
| Indigo-MusesT        | 5      | 231.87                           | 0.96                                | 0.01                         |
| LEDBAT               | 5      | 463.42                           | 6.60                                | 0.02                         |
| Muses_DecisionTree   | 5      | 13.10                            | 0.95                                | 0.01                         |
| Muses_DecisionTreeH0 | 5      | 13.48                            | 0.94                                | 0.01                         |
| Muses_DecisionTreeR0 | 5      | 12.98                            | 0.93                                | 0.01                         |
| PCC-Allegro          | 5      | 685.66                           | 3.67                                | 0.02                         |
| PCC-Expr             | 5      | 174.43                           | 1.03                                | 0.01                         |
| QUIC Cubic           | 5      | 91.80                            | 0.95                                | 0.01                         |
| SCReAM               | 5      | 0.22                             | 1.10                                | 0.03                         |
| Sprout               | 5      | 50.26                            | 0.99                                | 0.00                         |
| TaoVA-100x           | 5      | 64.19                            | 1.01                                | 0.00                         |
| TCP Vegas            | 5      | 239.79                           | 1.45                                | 0.00                         |
| Verus                | 5      | 297.63                           | 2.64                                | 0.01                         |
| PCC-Vivace           | 5      | 319.23                           | 0.93                                | 0.01                         |
| WebRTC media         | 5      | 0.05                             | 1.22                                | 0.01                         |

Run 1: Statistics of TCP BBR

Start at: 2019-08-27 06:03:42

End at: 2019-08-27 06:04:12

Local clock offset: 0.638 ms

Remote clock offset: -2.677 ms

# Below is generated by plot.py at 2019-08-27 08:33:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 635.84 Mbit/s

95th percentile per-packet one-way delay: 4.629 ms

Loss rate: 0.02%

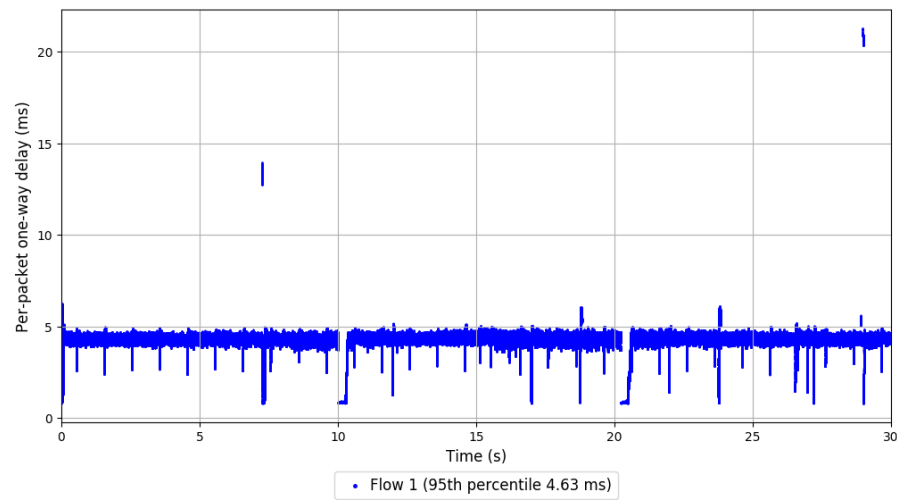
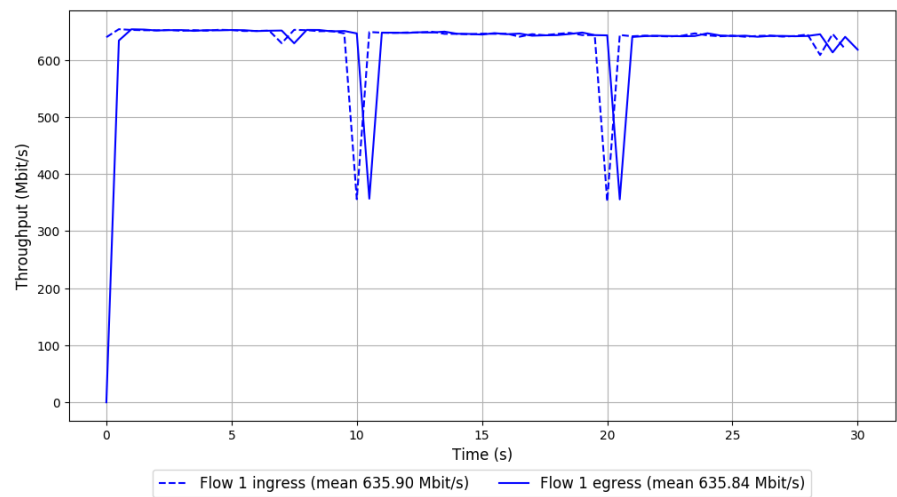
-- Flow 1:

Average throughput: 635.84 Mbit/s

95th percentile per-packet one-way delay: 4.629 ms

Loss rate: 0.02%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-08-27 06:37:01

End at: 2019-08-27 06:37:31

Local clock offset: 1.007 ms

Remote clock offset: -2.412 ms

# Below is generated by plot.py at 2019-08-27 08:33:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 702.33 Mbit/s

95th percentile per-packet one-way delay: 4.403 ms

Loss rate: 0.02%

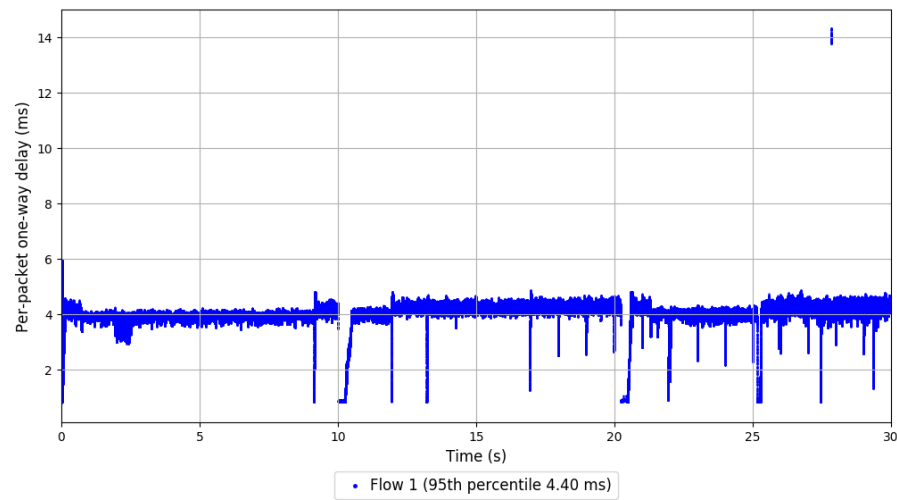
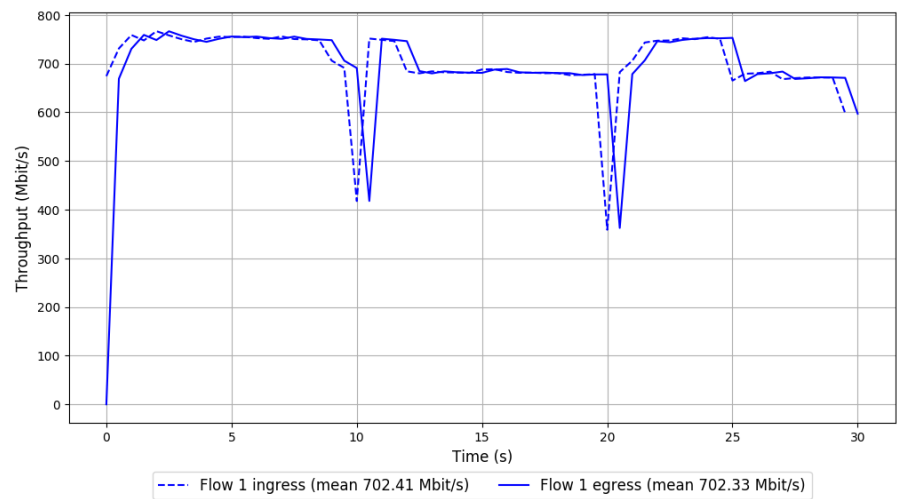
-- Flow 1:

Average throughput: 702.33 Mbit/s

95th percentile per-packet one-way delay: 4.403 ms

Loss rate: 0.02%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-08-27 07:09:54

End at: 2019-08-27 07:10:24

Local clock offset: 1.302 ms

Remote clock offset: 2.683 ms

# Below is generated by plot.py at 2019-08-27 08:33:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 668.64 Mbit/s

95th percentile per-packet one-way delay: 4.686 ms

Loss rate: 0.02%

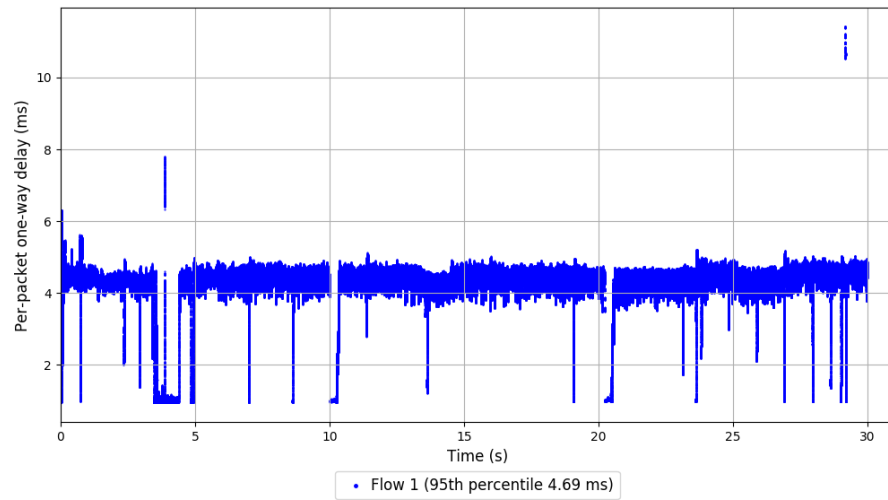
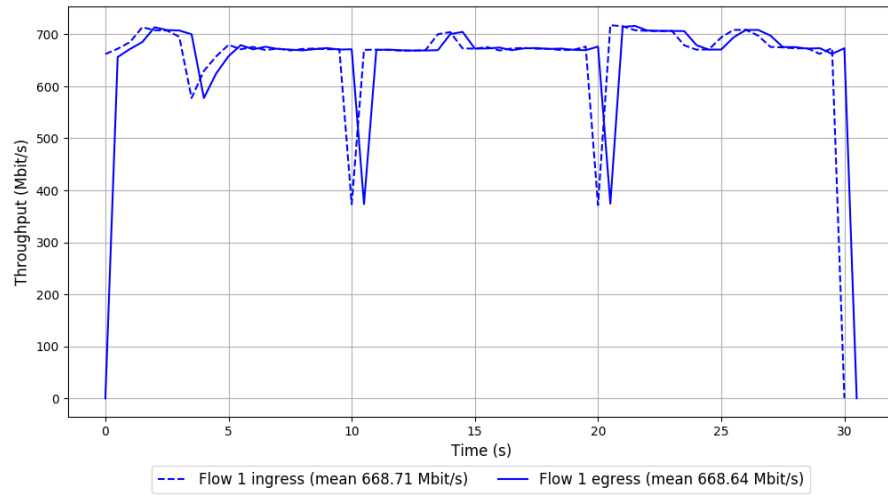
-- Flow 1:

Average throughput: 668.64 Mbit/s

95th percentile per-packet one-way delay: 4.686 ms

Loss rate: 0.02%

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



Run 4: Statistics of TCP BBR

Start at: 2019-08-27 07:42:53

End at: 2019-08-27 07:43:23

Local clock offset: 1.163 ms

Remote clock offset: 0.99 ms

# Below is generated by plot.py at 2019-08-27 08:33:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 705.46 Mbit/s

95th percentile per-packet one-way delay: 5.252 ms

Loss rate: 0.02%

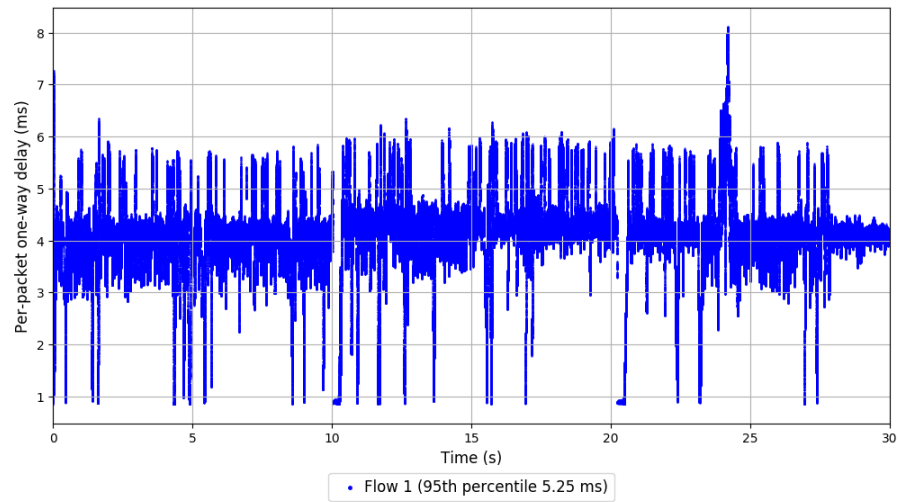
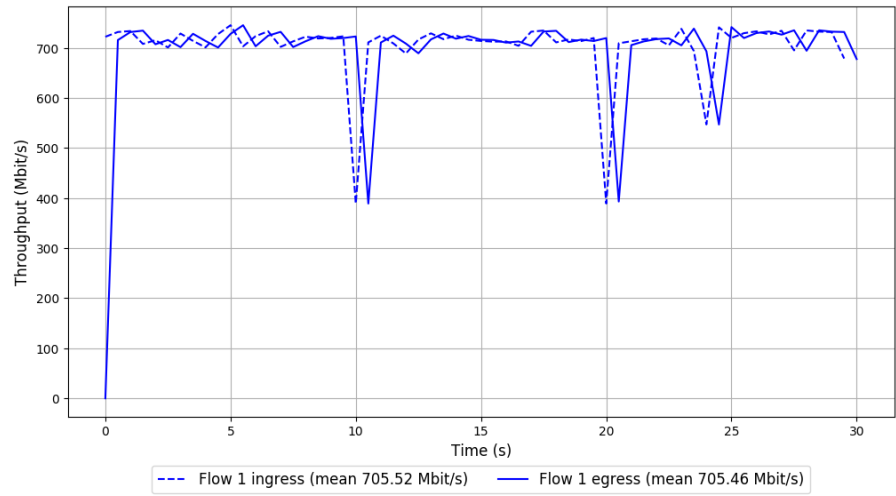
-- Flow 1:

Average throughput: 705.46 Mbit/s

95th percentile per-packet one-way delay: 5.252 ms

Loss rate: 0.02%

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



Run 5: Statistics of TCP BBR

Start at: 2019-08-27 08:16:03

End at: 2019-08-27 08:16:33

Local clock offset: 1.144 ms

Remote clock offset: 0.456 ms

# Below is generated by plot.py at 2019-08-27 08:33:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 688.59 Mbit/s

95th percentile per-packet one-way delay: 4.758 ms

Loss rate: 0.02%

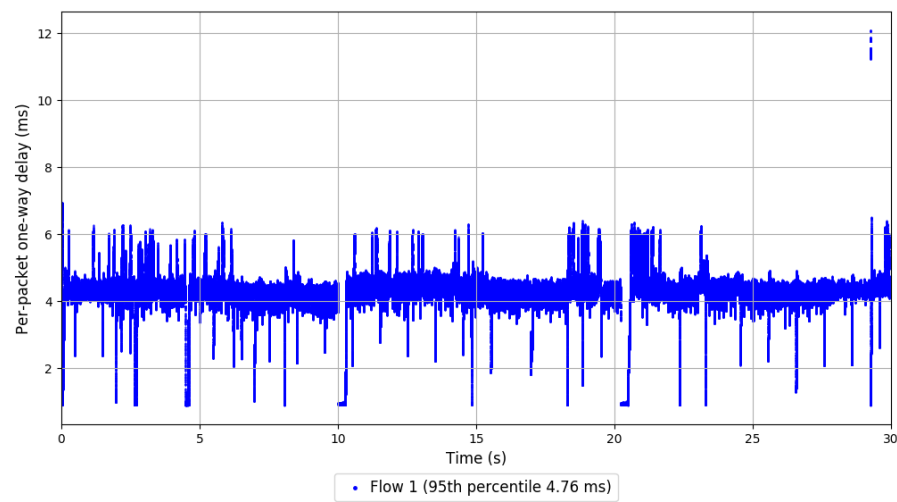
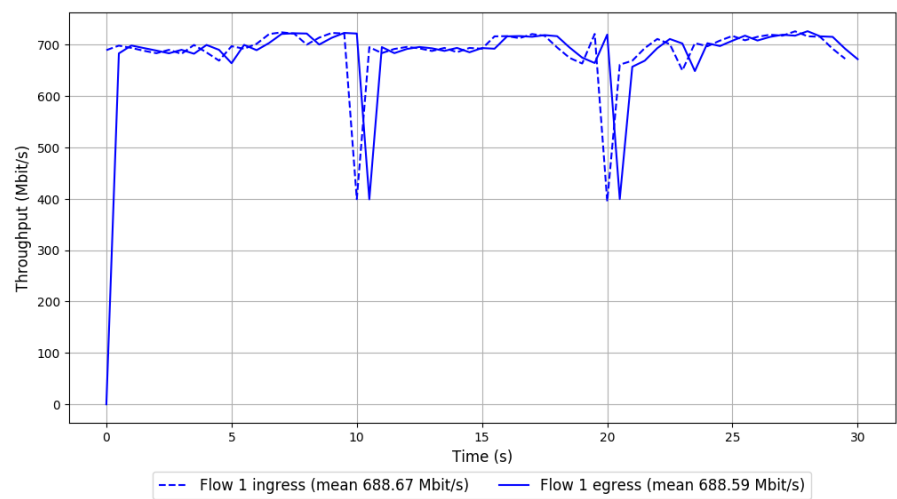
-- Flow 1:

Average throughput: 688.59 Mbit/s

95th percentile per-packet one-way delay: 4.758 ms

Loss rate: 0.02%

Run 5: Report of TCP BBR — Data Link

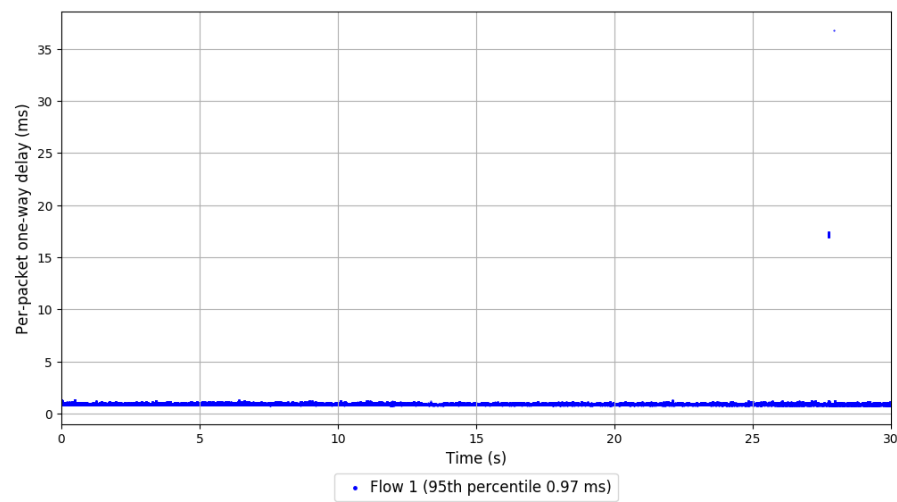
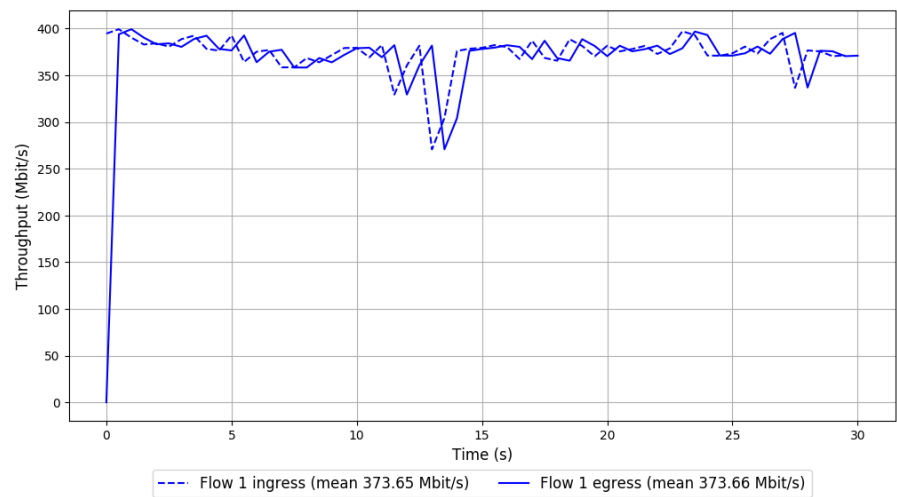


Run 1: Statistics of Copa

Start at: 2019-08-27 05:44:45  
End at: 2019-08-27 05:45:15  
Local clock offset: 0.332 ms  
Remote clock offset: -2.512 ms

# Below is generated by plot.py at 2019-08-27 08:33:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 373.66 Mbit/s  
95th percentile per-packet one-way delay: 0.974 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 373.66 Mbit/s  
95th percentile per-packet one-way delay: 0.974 ms  
Loss rate: 0.00%

Run 1: Report of Copa — Data Link

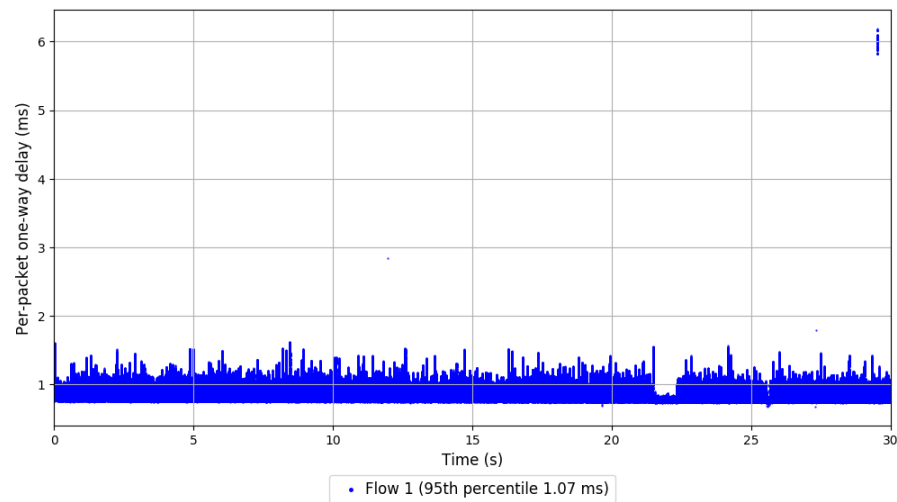
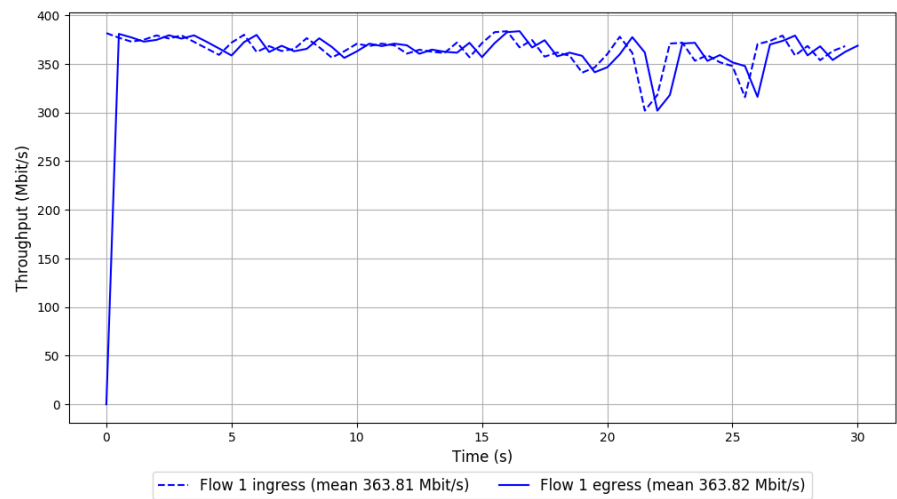


Run 2: Statistics of Copa

Start at: 2019-08-27 06:18:06  
End at: 2019-08-27 06:18:36  
Local clock offset: 0.861 ms  
Remote clock offset: -2.426 ms

# Below is generated by plot.py at 2019-08-27 08:33:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 363.82 Mbit/s  
95th percentile per-packet one-way delay: 1.072 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 363.82 Mbit/s  
95th percentile per-packet one-way delay: 1.072 ms  
Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-08-27 06:51:04

End at: 2019-08-27 06:51:34

Local clock offset: 1.128 ms

Remote clock offset: -1.85 ms

# Below is generated by plot.py at 2019-08-27 08:33:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 327.99 Mbit/s

95th percentile per-packet one-way delay: 1.296 ms

Loss rate: 0.00%

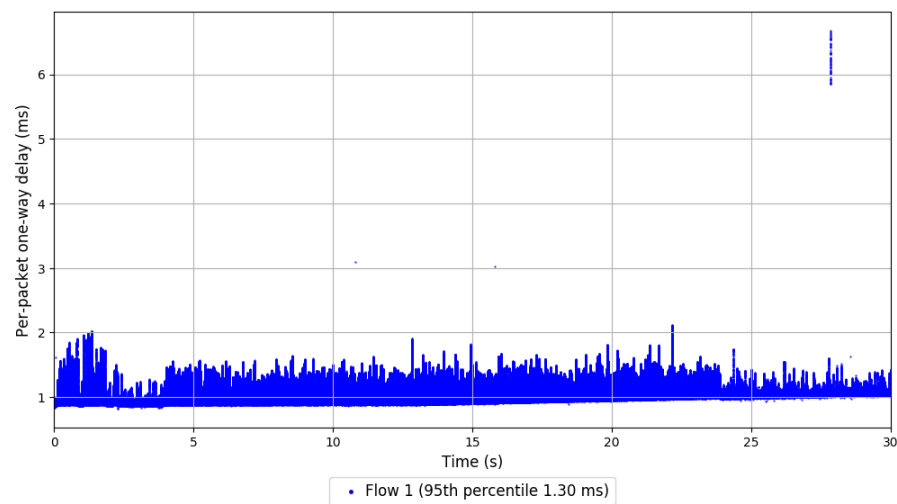
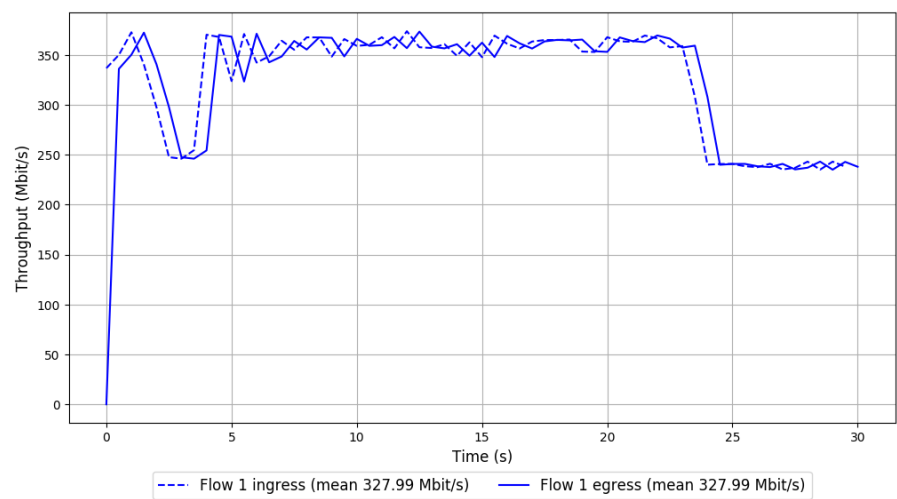
-- Flow 1:

Average throughput: 327.99 Mbit/s

95th percentile per-packet one-way delay: 1.296 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-08-27 07:23:59

End at: 2019-08-27 07:24:29

Local clock offset: 1.243 ms

Remote clock offset: 3.319 ms

# Below is generated by plot.py at 2019-08-27 08:41:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 344.91 Mbit/s

95th percentile per-packet one-way delay: 13.893 ms

Loss rate: 0.01%

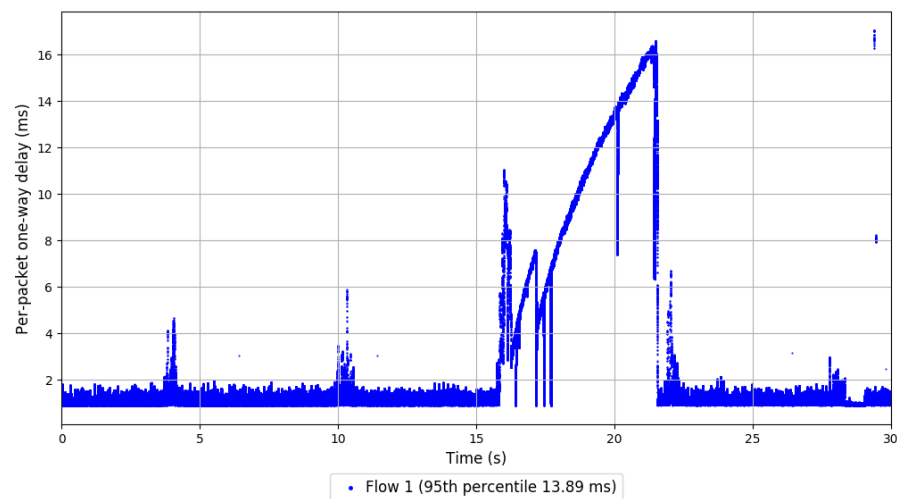
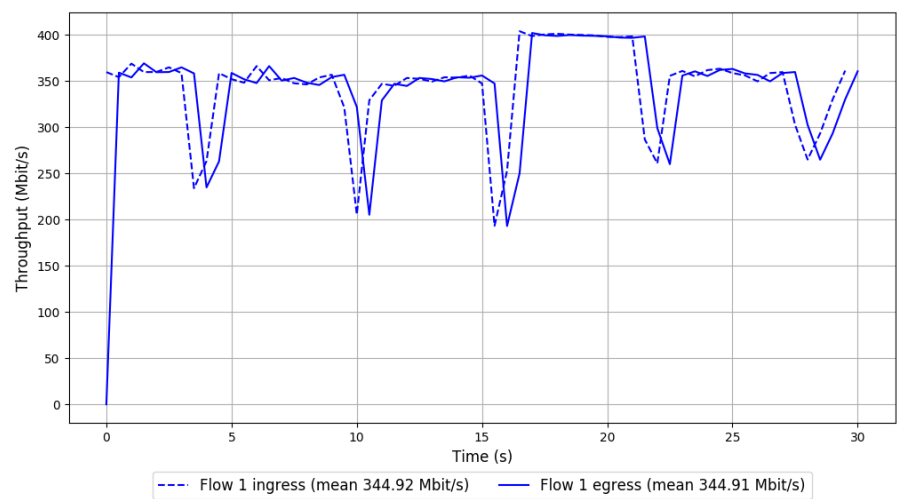
-- Flow 1:

Average throughput: 344.91 Mbit/s

95th percentile per-packet one-way delay: 13.893 ms

Loss rate: 0.01%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-08-27 07:57:06

End at: 2019-08-27 07:57:36

Local clock offset: 1.128 ms

Remote clock offset: 0.927 ms

# Below is generated by plot.py at 2019-08-27 08:41:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 335.71 Mbit/s

95th percentile per-packet one-way delay: 1.266 ms

Loss rate: 0.01%

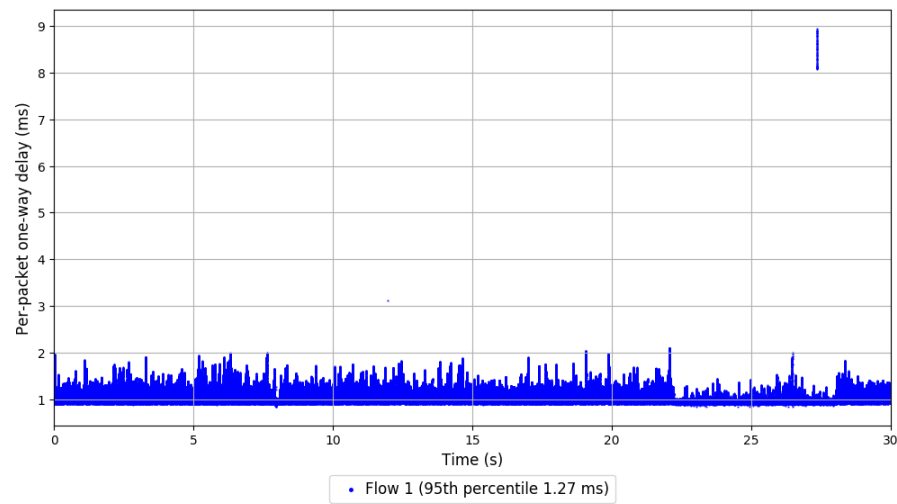
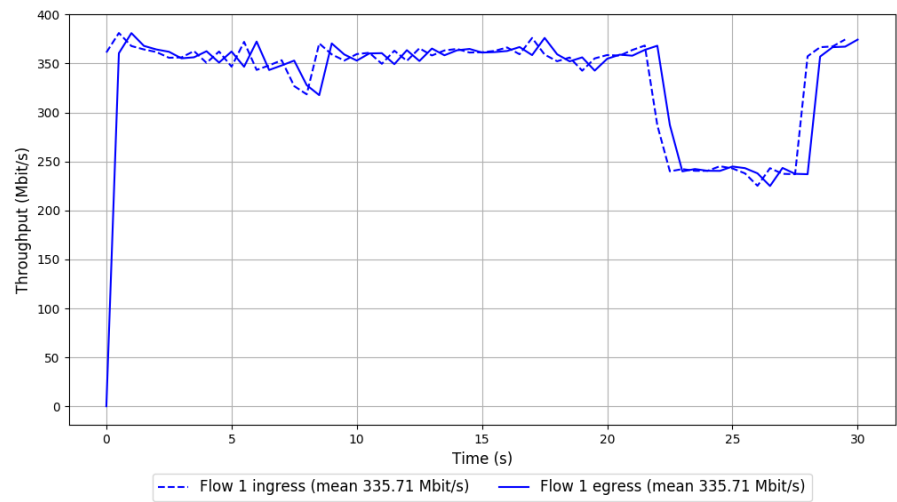
-- Flow 1:

Average throughput: 335.71 Mbit/s

95th percentile per-packet one-way delay: 1.266 ms

Loss rate: 0.01%

Run 5: Report of Copa — Data Link

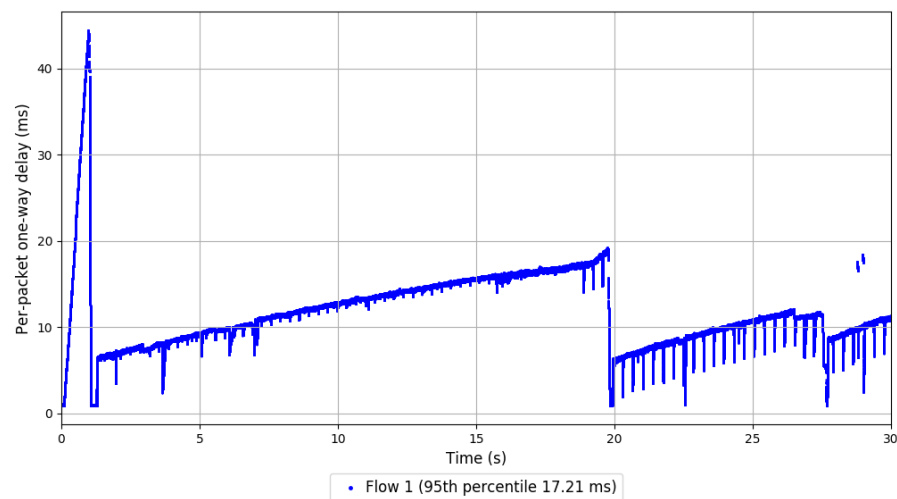
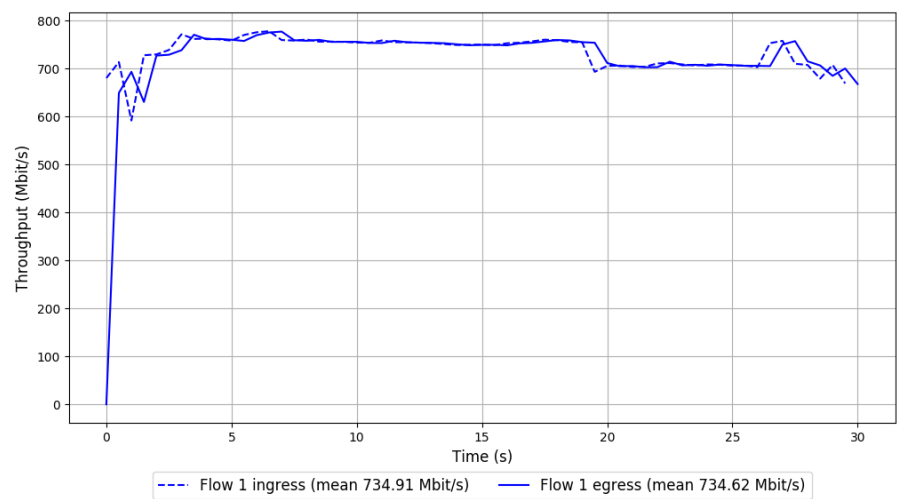


Run 1: Statistics of TCP Cubic

Start at: 2019-08-27 05:40:08  
End at: 2019-08-27 05:40:38  
Local clock offset: 0.23 ms  
Remote clock offset: -2.644 ms

# Below is generated by plot.py at 2019-08-27 08:41:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 734.62 Mbit/s  
95th percentile per-packet one-way delay: 17.212 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 734.62 Mbit/s  
95th percentile per-packet one-way delay: 17.212 ms  
Loss rate: 0.04%

Run 1: Report of TCP Cubic — Data Link

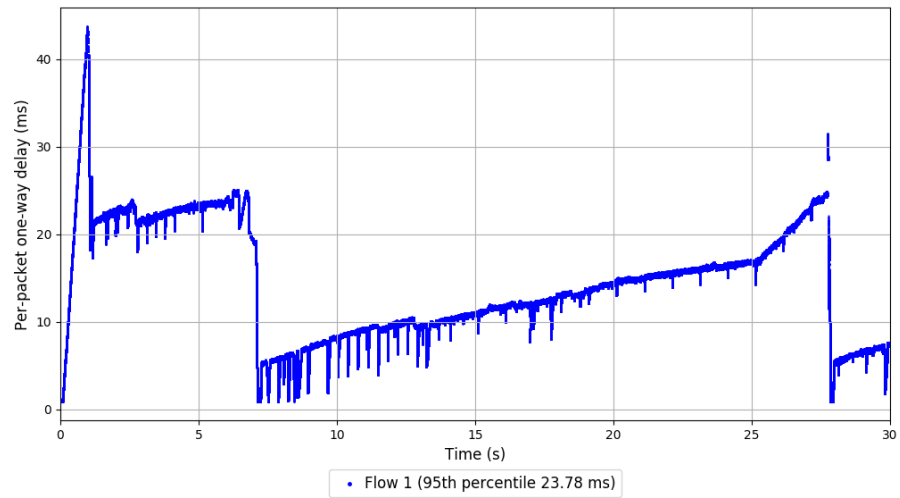
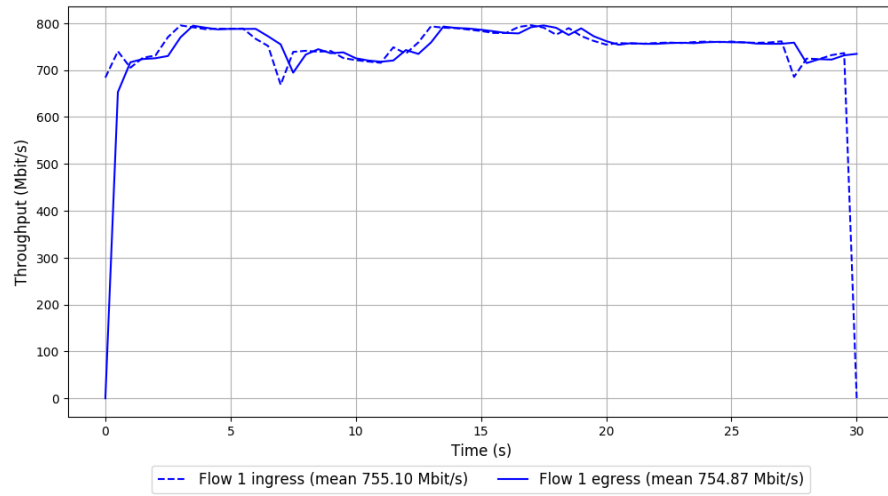


Run 2: Statistics of TCP Cubic

Start at: 2019-08-27 06:13:26  
End at: 2019-08-27 06:13:56  
Local clock offset: 0.809 ms  
Remote clock offset: -2.698 ms

# Below is generated by plot.py at 2019-08-27 08:42:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 754.87 Mbit/s  
95th percentile per-packet one-way delay: 23.780 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 754.87 Mbit/s  
95th percentile per-packet one-way delay: 23.780 ms  
Loss rate: 0.04%

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

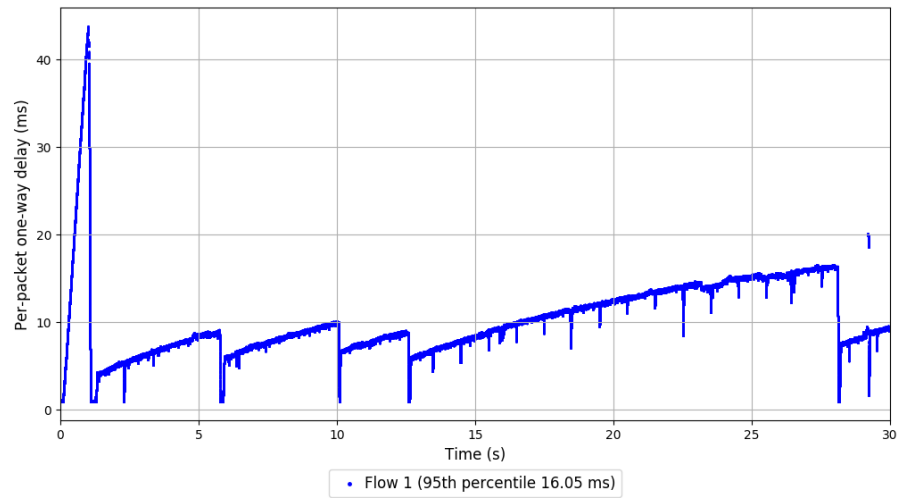
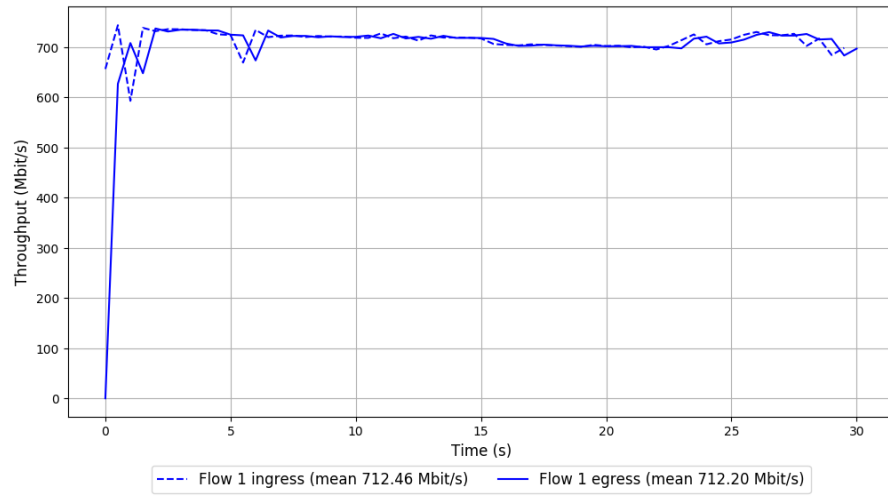


Run 3: Statistics of TCP Cubic

Start at: 2019-08-27 06:46:47  
End at: 2019-08-27 06:47:17  
Local clock offset: 1.088 ms  
Remote clock offset: -2.051 ms

# Below is generated by plot.py at 2019-08-27 08:42:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 712.20 Mbit/s  
95th percentile per-packet one-way delay: 16.051 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 712.20 Mbit/s  
95th percentile per-packet one-way delay: 16.051 ms  
Loss rate: 0.04%

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



Run 4: Statistics of TCP Cubic

Start at: 2019-08-27 07:19:38

End at: 2019-08-27 07:20:08

Local clock offset: 1.276 ms

Remote clock offset: 3.235 ms

# Below is generated by plot.py at 2019-08-27 08:42:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 716.53 Mbit/s

95th percentile per-packet one-way delay: 10.991 ms

Loss rate: 0.03%

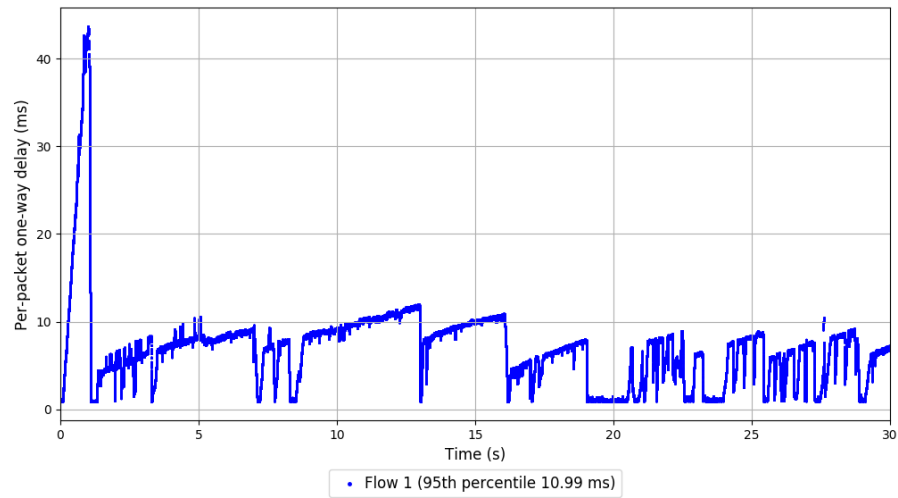
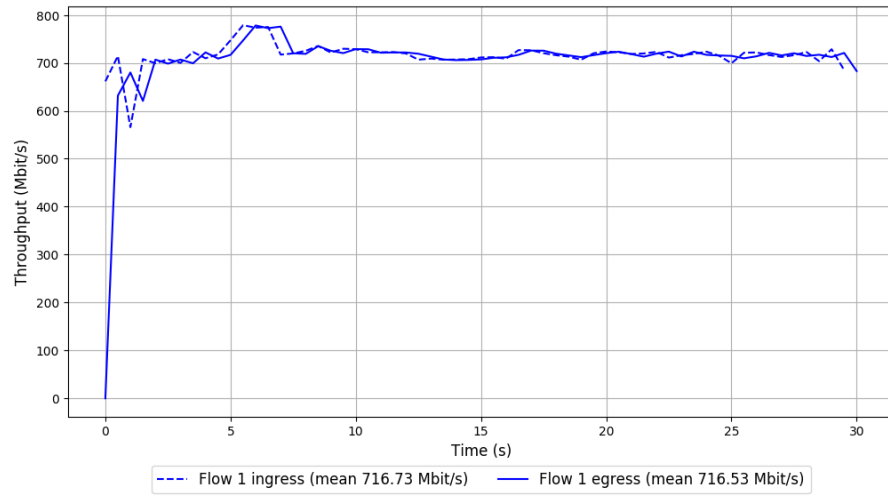
-- Flow 1:

Average throughput: 716.53 Mbit/s

95th percentile per-packet one-way delay: 10.991 ms

Loss rate: 0.03%

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



Run 5: Statistics of TCP Cubic

Start at: 2019-08-27 07:52:42

End at: 2019-08-27 07:53:12

Local clock offset: 1.142 ms

Remote clock offset: 0.893 ms

# Below is generated by plot.py at 2019-08-27 08:42:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 699.44 Mbit/s

95th percentile per-packet one-way delay: 10.576 ms

Loss rate: 0.03%

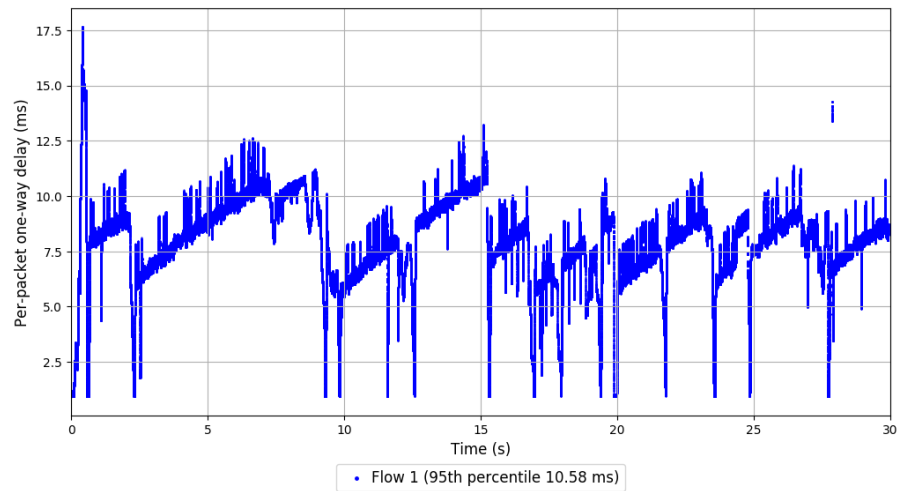
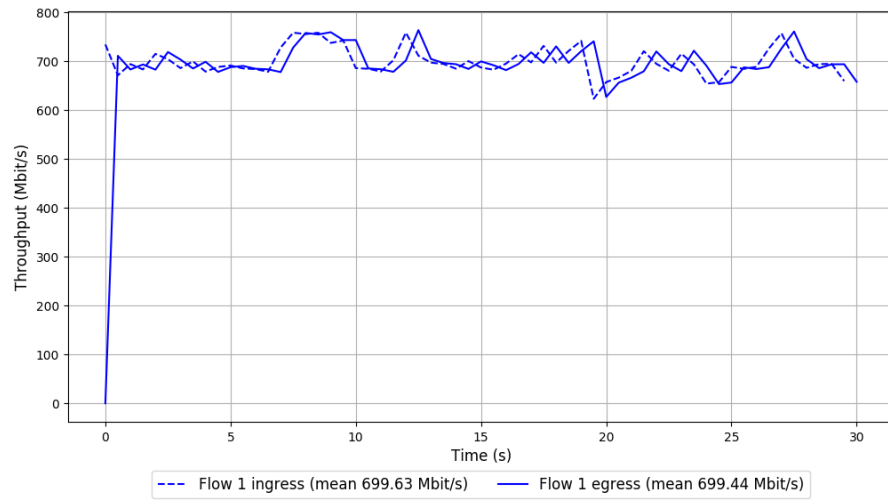
-- Flow 1:

Average throughput: 699.44 Mbit/s

95th percentile per-packet one-way delay: 10.576 ms

Loss rate: 0.03%

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



Run 1: Statistics of FillP

Start at: 2019-08-27 05:33:13

End at: 2019-08-27 05:33:43

Local clock offset: 0.102 ms

Remote clock offset: -2.82 ms

# Below is generated by plot.py at 2019-08-27 08:45:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 825.90 Mbit/s

95th percentile per-packet one-way delay: 41.298 ms

Loss rate: 0.54%

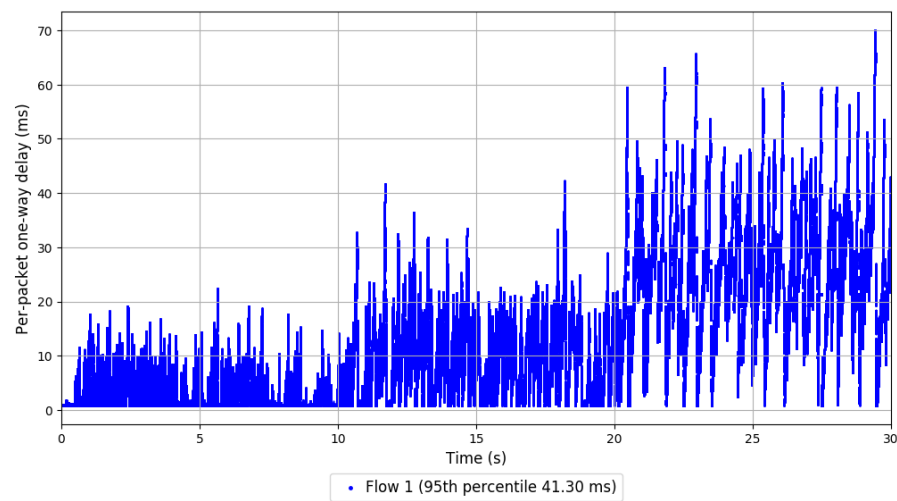
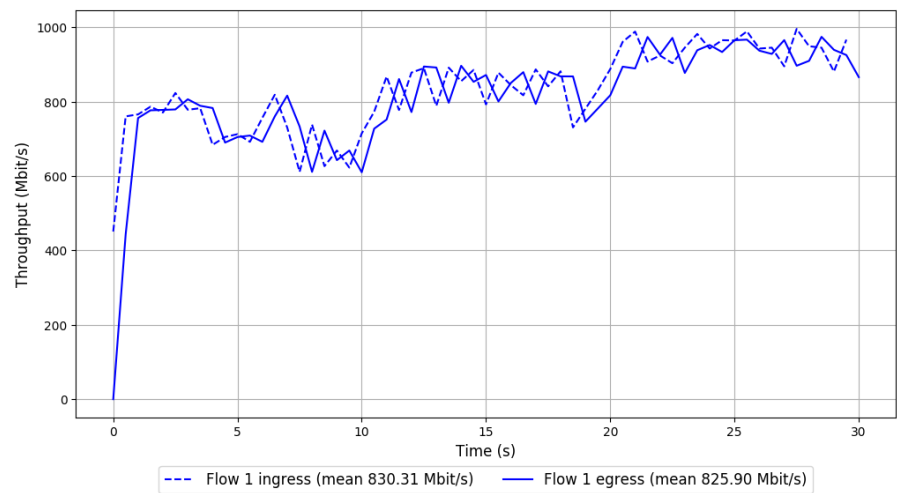
-- Flow 1:

Average throughput: 825.90 Mbit/s

95th percentile per-packet one-way delay: 41.298 ms

Loss rate: 0.54%

Run 1: Report of FillP — Data Link

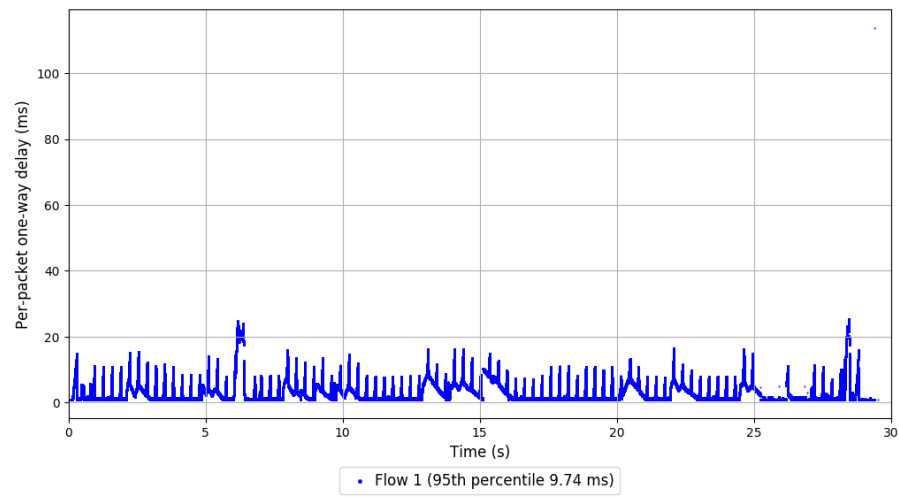
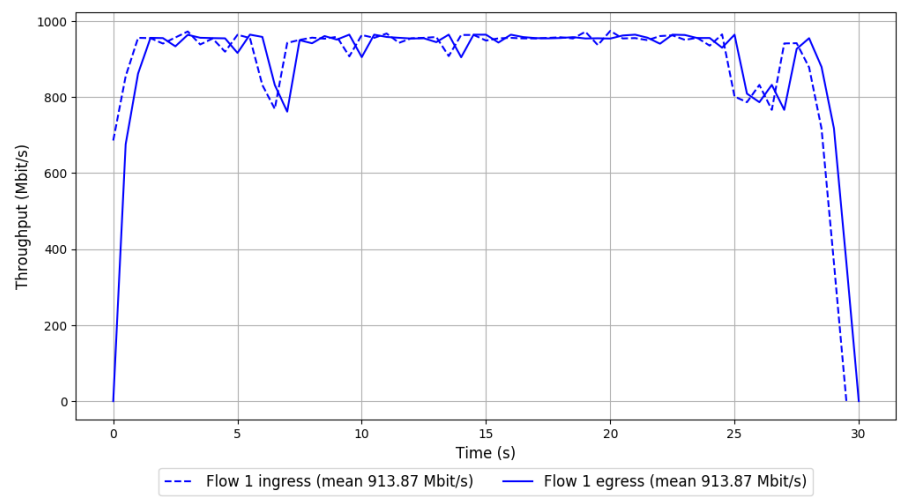


Run 2: Statistics of FillP

Start at: 2019-08-27 06:06:29  
End at: 2019-08-27 06:06:59  
Local clock offset: 0.703 ms  
Remote clock offset: -2.764 ms

# Below is generated by plot.py at 2019-08-27 08:54:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 913.87 Mbit/s  
95th percentile per-packet one-way delay: 9.745 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 913.87 Mbit/s  
95th percentile per-packet one-way delay: 9.745 ms  
Loss rate: 0.00%

Run 2: Report of FillP — Data Link

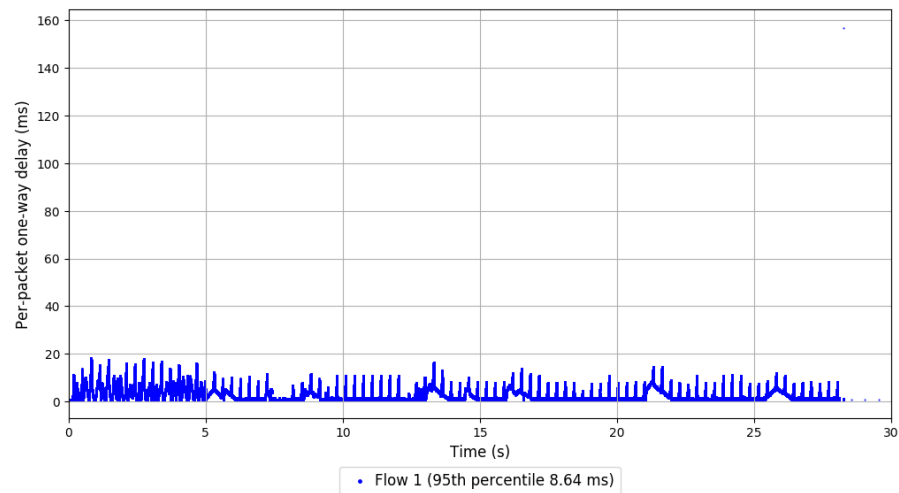
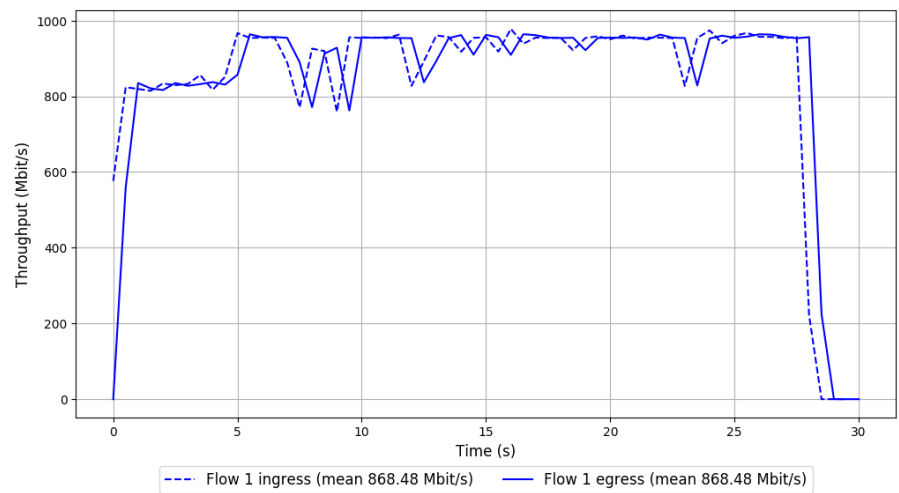


Run 3: Statistics of FillP

Start at: 2019-08-27 06:39:51  
End at: 2019-08-27 06:40:21  
Local clock offset: 1.015 ms  
Remote clock offset: -2.314 ms

# Below is generated by plot.py at 2019-08-27 08:54:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 868.48 Mbit/s  
95th percentile per-packet one-way delay: 8.640 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 868.48 Mbit/s  
95th percentile per-packet one-way delay: 8.640 ms  
Loss rate: 0.00%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-08-27 07:12:42

End at: 2019-08-27 07:13:12

Local clock offset: 1.271 ms

Remote clock offset: 2.866 ms

# Below is generated by plot.py at 2019-08-27 08:55:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 921.03 Mbit/s

95th percentile per-packet one-way delay: 9.271 ms

Loss rate: 0.03%

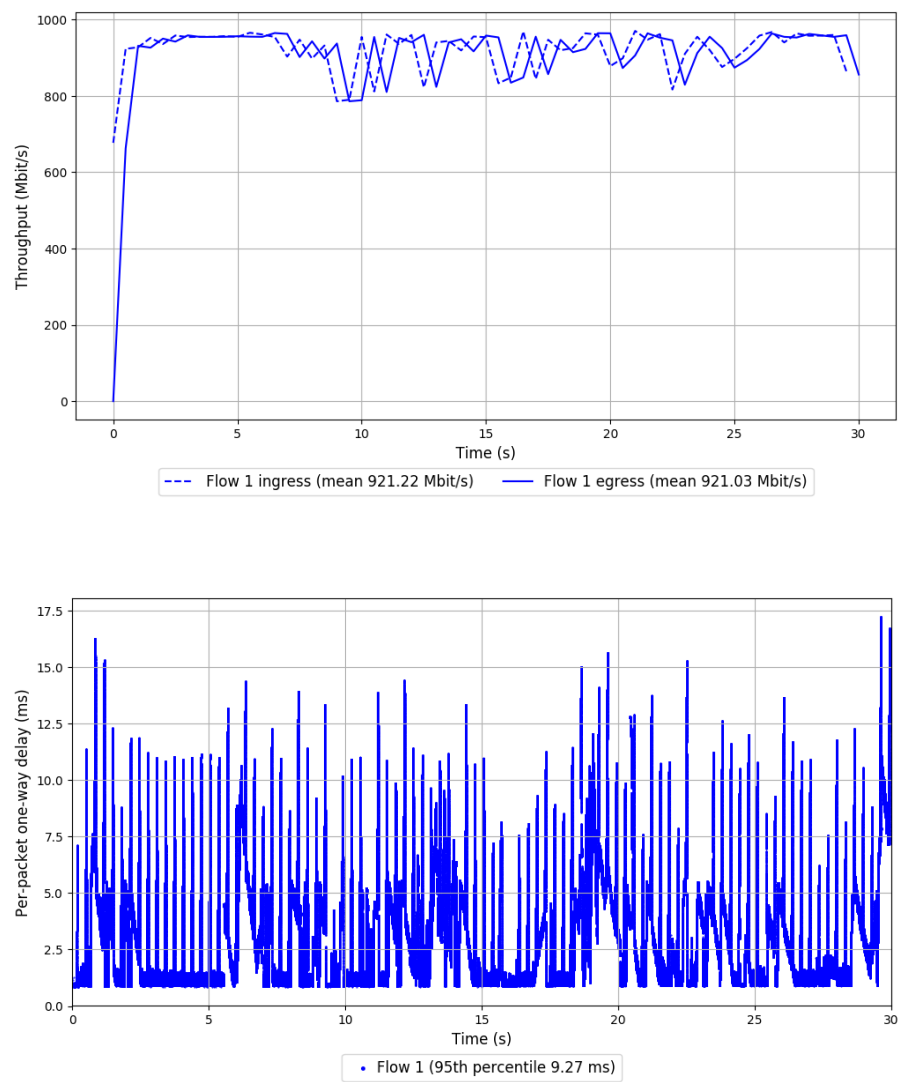
-- Flow 1:

Average throughput: 921.03 Mbit/s

95th percentile per-packet one-way delay: 9.271 ms

Loss rate: 0.03%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-08-27 07:45:42

End at: 2019-08-27 07:46:12

Local clock offset: 1.125 ms

Remote clock offset: 1.003 ms

# Below is generated by plot.py at 2019-08-27 08:55:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 932.79 Mbit/s

95th percentile per-packet one-way delay: 8.863 ms

Loss rate: 0.01%

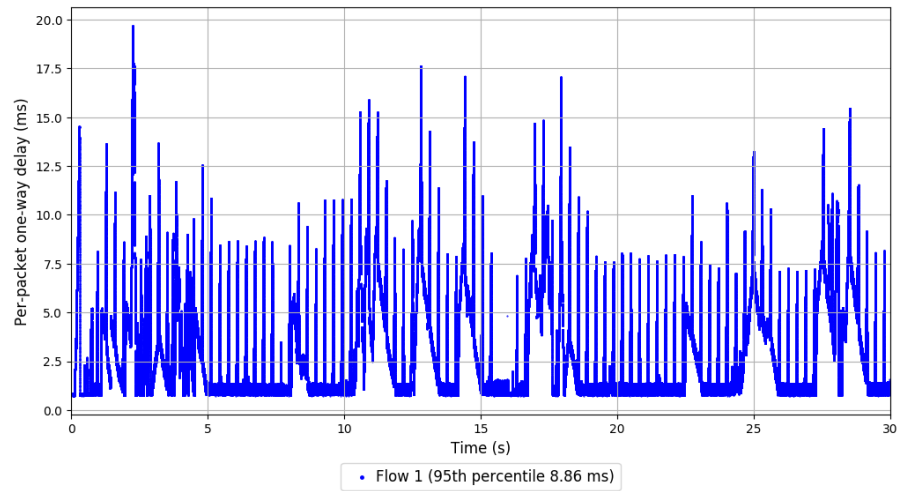
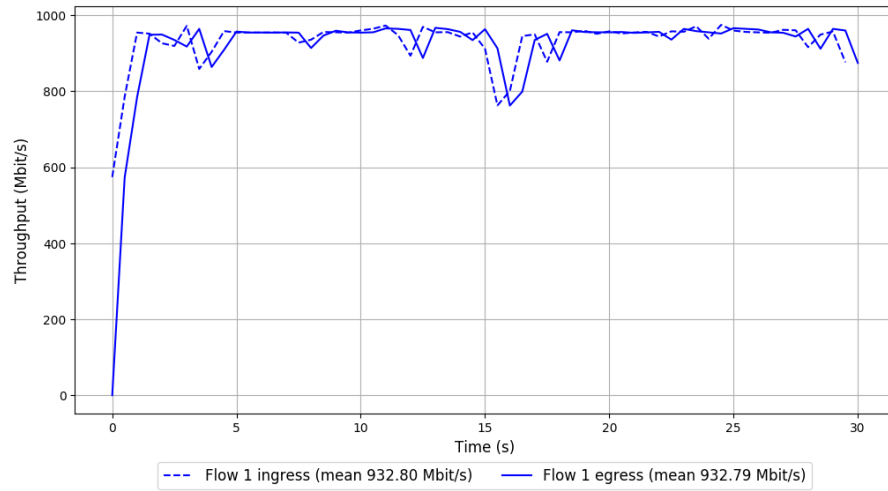
-- Flow 1:

Average throughput: 932.79 Mbit/s

95th percentile per-packet one-way delay: 8.863 ms

Loss rate: 0.01%

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



Run 1: Statistics of FillP-Sheep

Start at: 2019-08-27 05:58:04

End at: 2019-08-27 05:58:34

Local clock offset: 0.578 ms

Remote clock offset: -2.726 ms

# Below is generated by plot.py at 2019-08-27 08:55:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 910.69 Mbit/s

95th percentile per-packet one-way delay: 6.309 ms

Loss rate: 0.05%

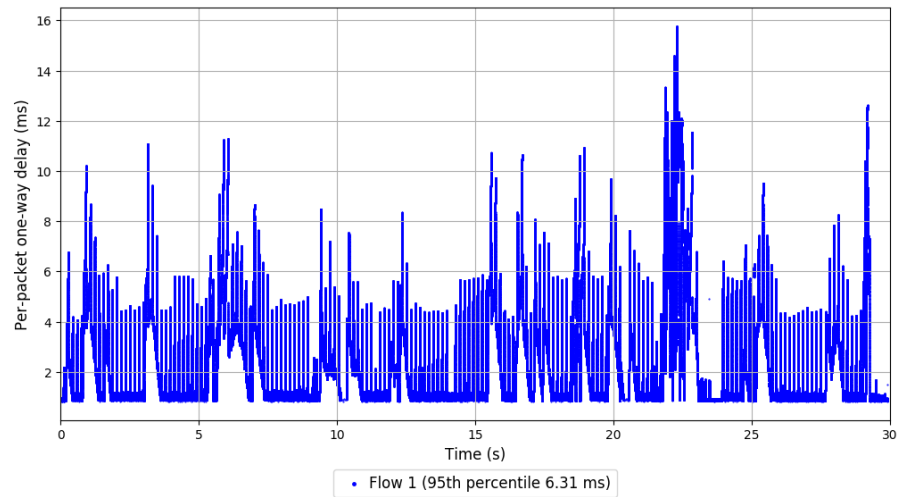
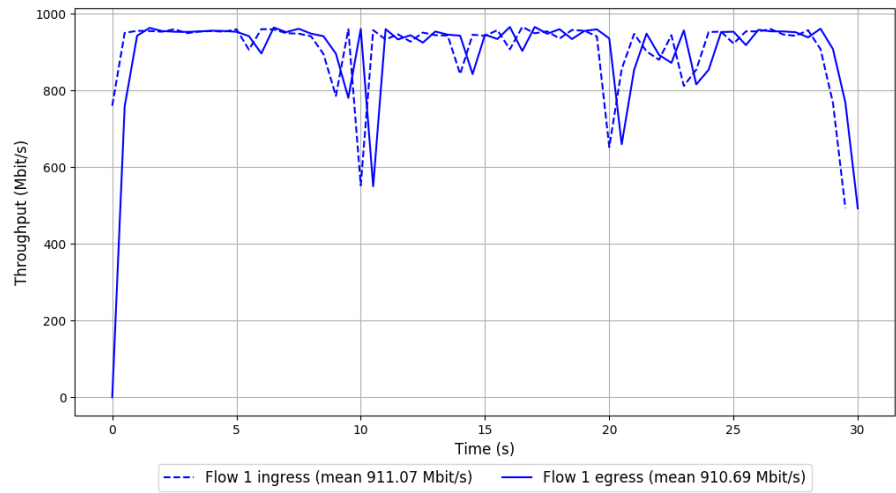
-- Flow 1:

Average throughput: 910.69 Mbit/s

95th percentile per-packet one-way delay: 6.309 ms

Loss rate: 0.05%

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



Run 2: Statistics of FillP-Sheep

Start at: 2019-08-27 06:31:22

End at: 2019-08-27 06:31:52

Local clock offset: 0.96 ms

Remote clock offset: -2.68 ms

# Below is generated by plot.py at 2019-08-27 08:55:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 925.56 Mbit/s

95th percentile per-packet one-way delay: 5.015 ms

Loss rate: 0.02%

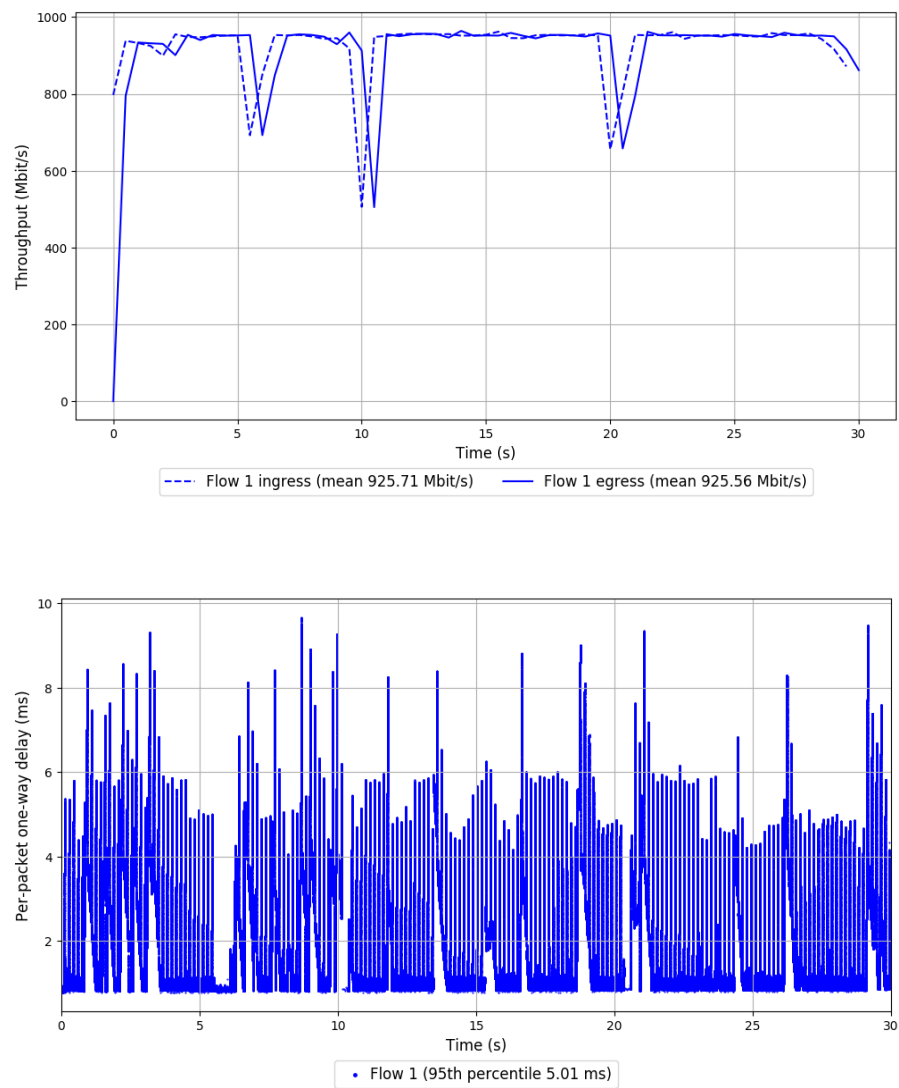
-- Flow 1:

Average throughput: 925.56 Mbit/s

95th percentile per-packet one-way delay: 5.015 ms

Loss rate: 0.02%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-08-27 07:04:19

End at: 2019-08-27 07:04:49

Local clock offset: 1.296 ms

Remote clock offset: 2.178 ms

# Below is generated by plot.py at 2019-08-27 08:55:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 756.46 Mbit/s

95th percentile per-packet one-way delay: 16.374 ms

Loss rate: 0.05%

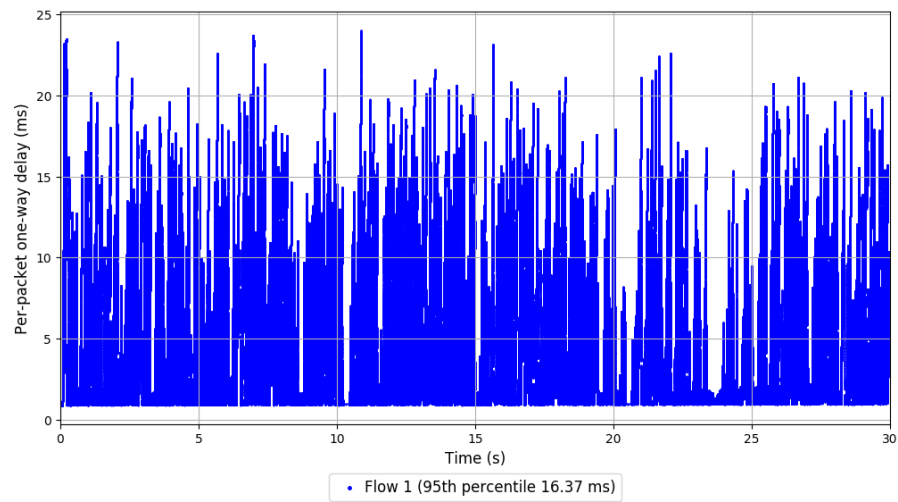
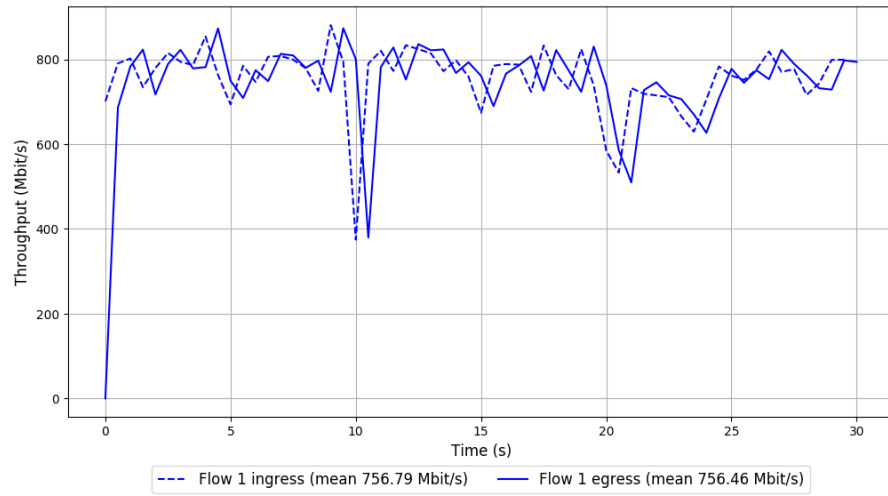
-- Flow 1:

Average throughput: 756.46 Mbit/s

95th percentile per-packet one-way delay: 16.374 ms

Loss rate: 0.05%

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



Run 4: Statistics of FillP-Sheep

Start at: 2019-08-27 07:37:13

End at: 2019-08-27 07:37:43

Local clock offset: 1.189 ms

Remote clock offset: 1.219 ms

# Below is generated by plot.py at 2019-08-27 09:00:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 910.37 Mbit/s

95th percentile per-packet one-way delay: 7.444 ms

Loss rate: 0.02%

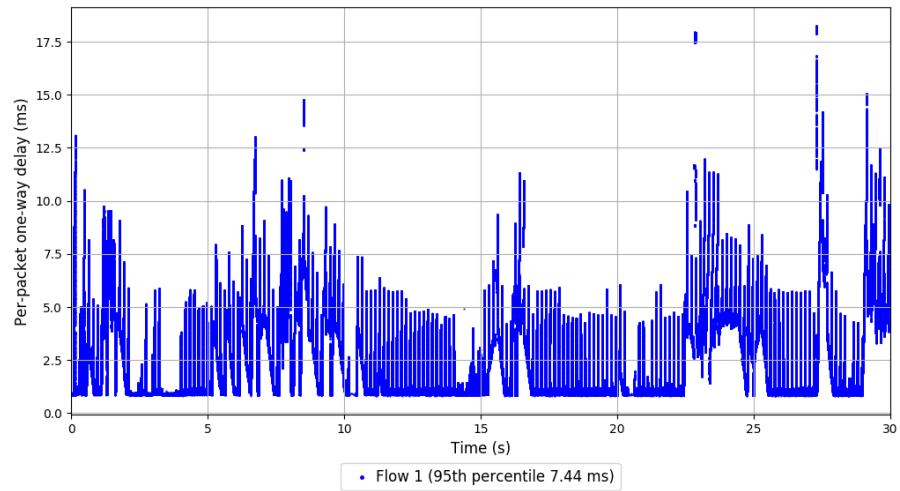
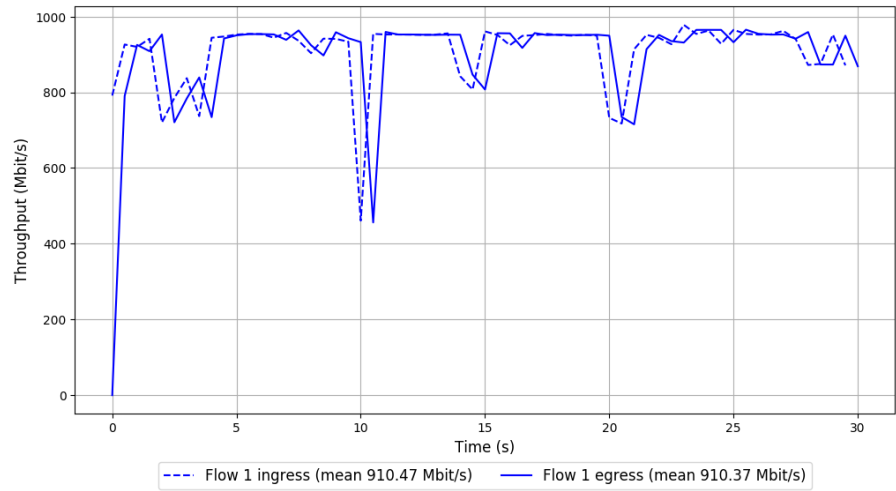
-- Flow 1:

Average throughput: 910.37 Mbit/s

95th percentile per-packet one-way delay: 7.444 ms

Loss rate: 0.02%

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



Run 5: Statistics of FillP-Sheep

Start at: 2019-08-27 08:10:25

End at: 2019-08-27 08:10:55

Local clock offset: 1.154 ms

Remote clock offset: 0.539 ms

# Below is generated by plot.py at 2019-08-27 09:07:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 910.33 Mbit/s

95th percentile per-packet one-way delay: 4.925 ms

Loss rate: 0.00%

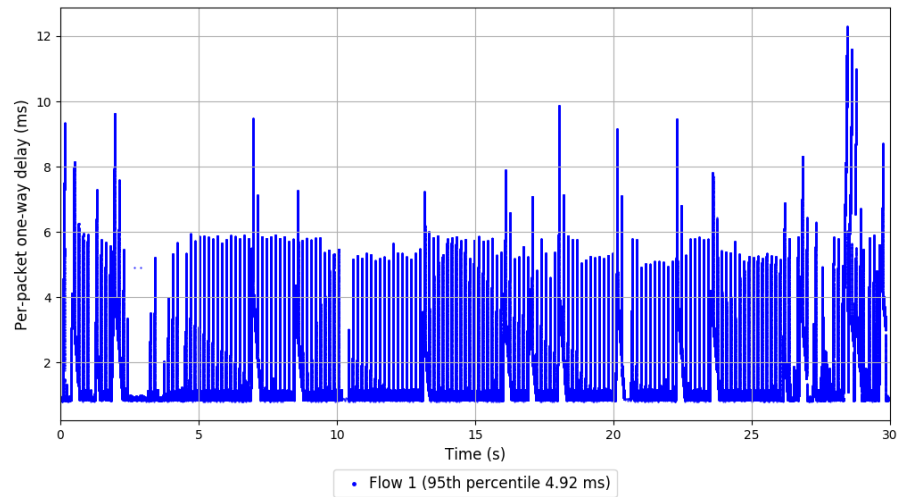
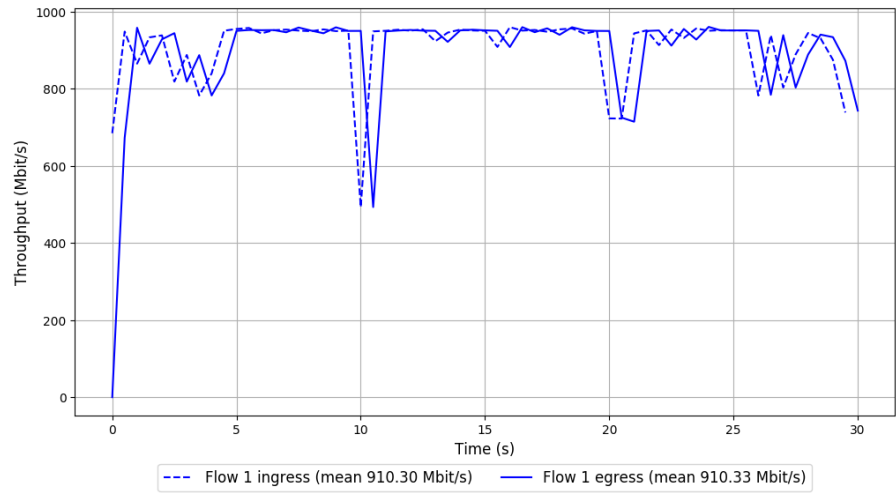
-- Flow 1:

Average throughput: 910.33 Mbit/s

95th percentile per-packet one-way delay: 4.925 ms

Loss rate: 0.00%

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

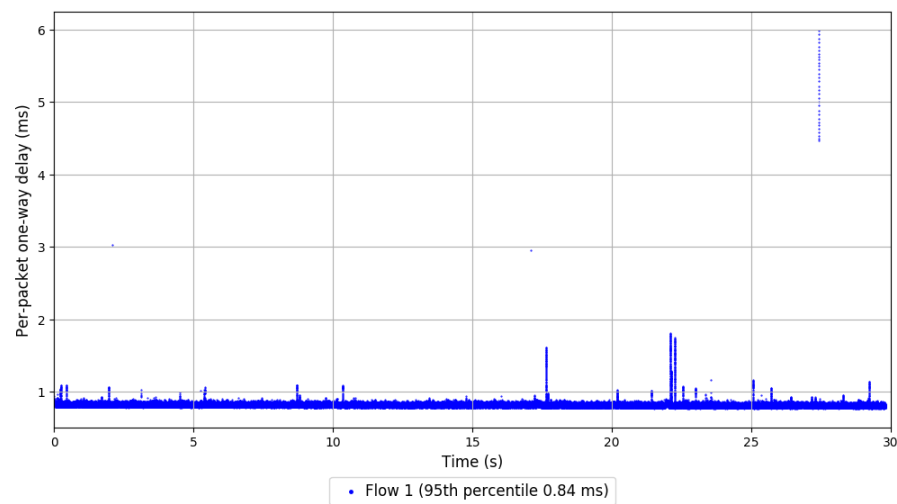
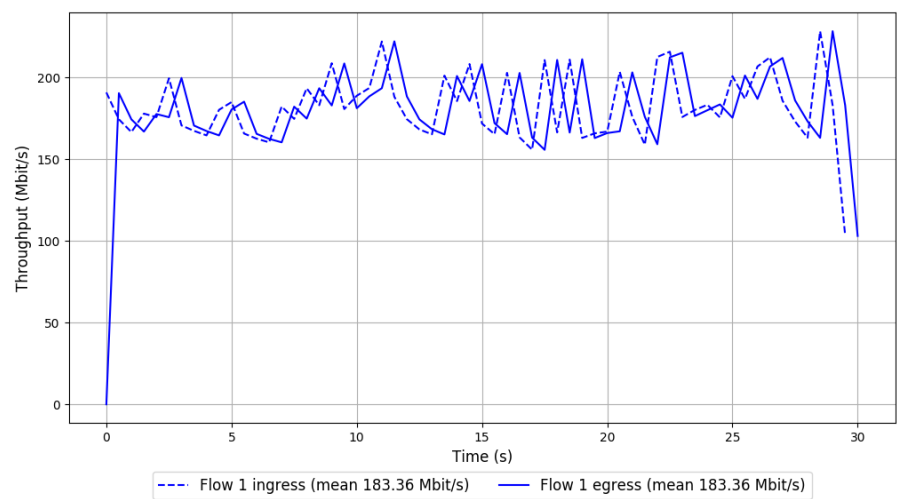


Run 1: Statistics of Indigo

Start at: 2019-08-27 05:47:41  
End at: 2019-08-27 05:48:11  
Local clock offset: 0.385 ms  
Remote clock offset: -2.522 ms

# Below is generated by plot.py at 2019-08-27 09:07:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 183.36 Mbit/s  
95th percentile per-packet one-way delay: 0.845 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 183.36 Mbit/s  
95th percentile per-packet one-way delay: 0.845 ms  
Loss rate: 0.00%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-08-27 06:20:56

End at: 2019-08-27 06:21:26

Local clock offset: 0.897 ms

Remote clock offset: -2.614 ms

# Below is generated by plot.py at 2019-08-27 09:07:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 187.45 Mbit/s

95th percentile per-packet one-way delay: 0.938 ms

Loss rate: 0.01%

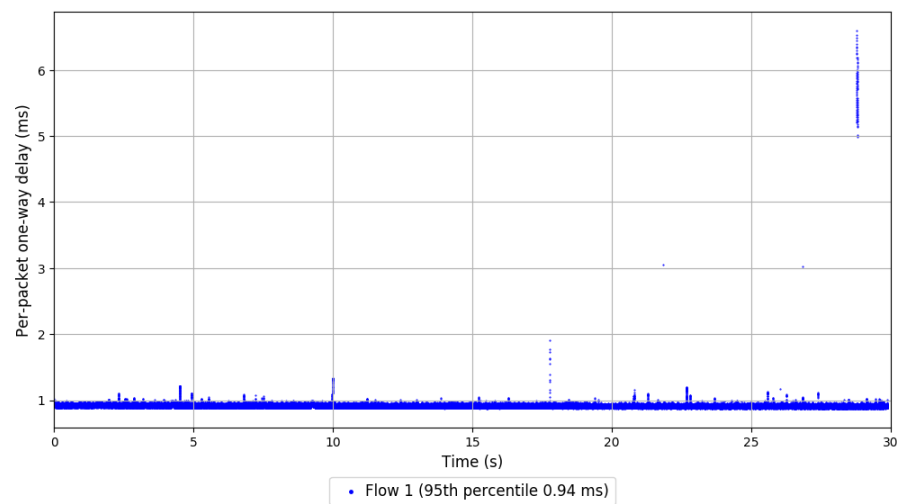
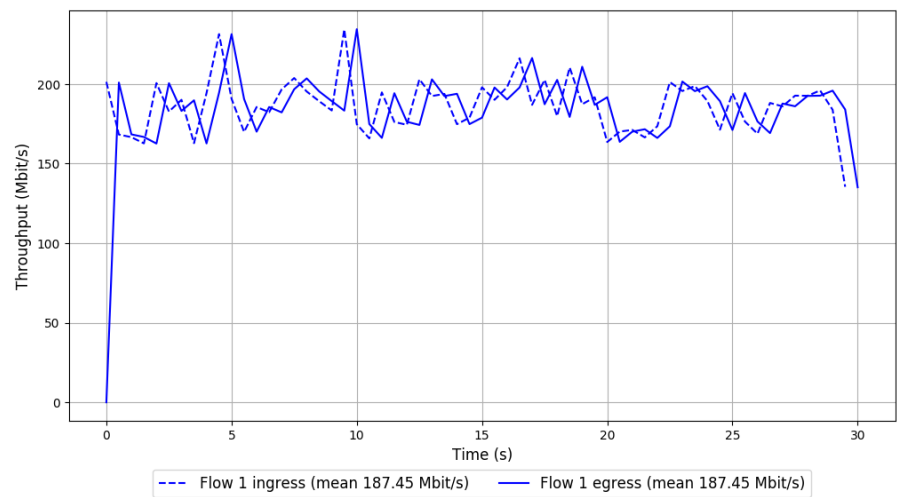
-- Flow 1:

Average throughput: 187.45 Mbit/s

95th percentile per-packet one-way delay: 0.938 ms

Loss rate: 0.01%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-08-27 06:53:54

End at: 2019-08-27 06:54:24

Local clock offset: 1.142 ms

Remote clock offset: -0.542 ms

# Below is generated by plot.py at 2019-08-27 09:07:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 181.57 Mbit/s

95th percentile per-packet one-way delay: 1.118 ms

Loss rate: 0.01%

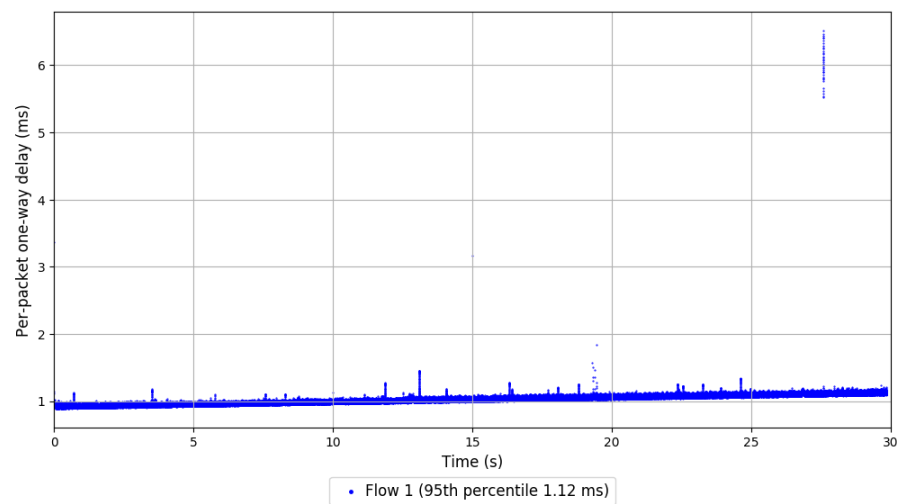
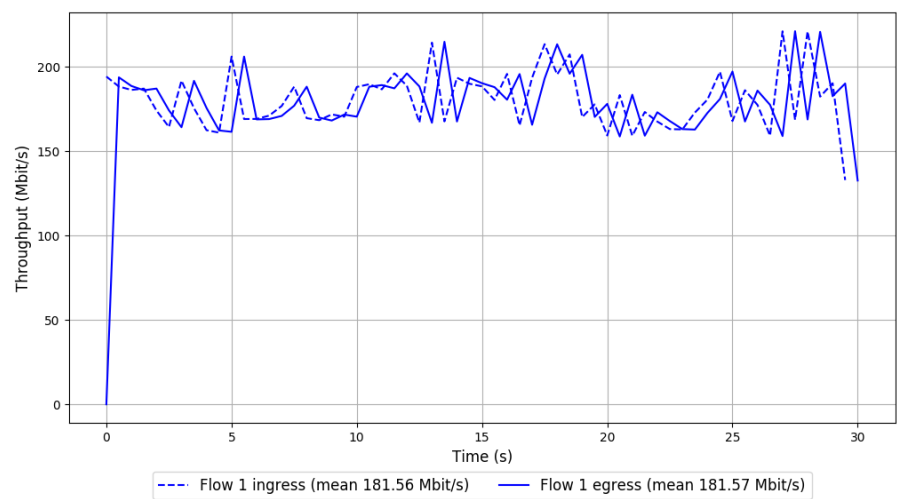
-- Flow 1:

Average throughput: 181.57 Mbit/s

95th percentile per-packet one-way delay: 1.118 ms

Loss rate: 0.01%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-08-27 07:26:48

End at: 2019-08-27 07:27:18

Local clock offset: 1.226 ms

Remote clock offset: 2.914 ms

# Below is generated by plot.py at 2019-08-27 09:07:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 181.00 Mbit/s

95th percentile per-packet one-way delay: 0.884 ms

Loss rate: 0.01%

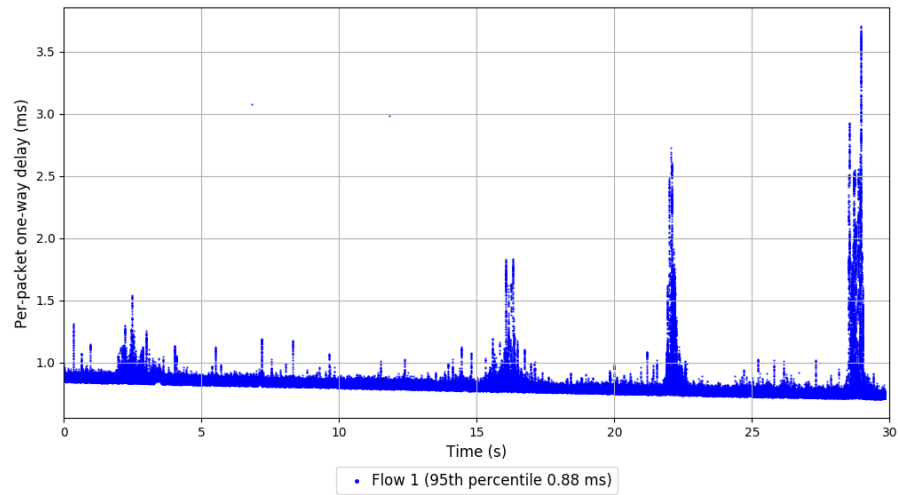
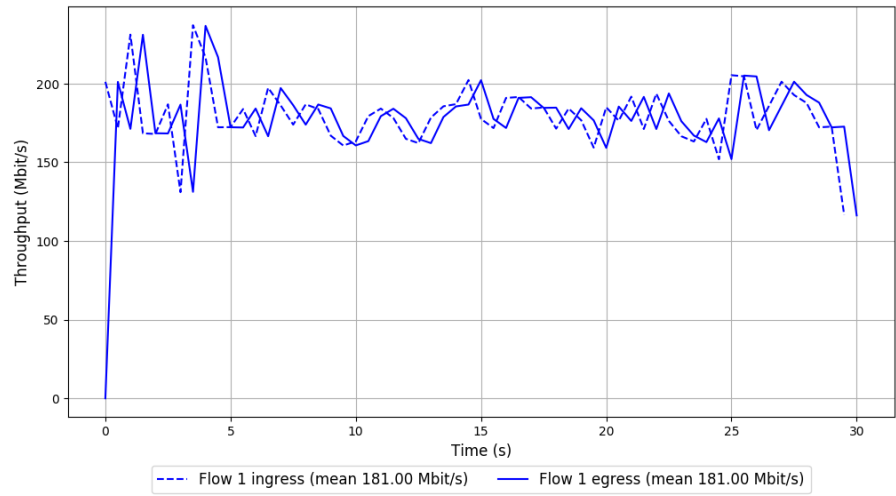
-- Flow 1:

Average throughput: 181.00 Mbit/s

95th percentile per-packet one-way delay: 0.884 ms

Loss rate: 0.01%

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



Run 5: Statistics of Indigo

Start at: 2019-08-27 07:59:59

End at: 2019-08-27 08:00:29

Local clock offset: 1.141 ms

Remote clock offset: 0.917 ms

# Below is generated by plot.py at 2019-08-27 09:07:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 183.03 Mbit/s

95th percentile per-packet one-way delay: 0.943 ms

Loss rate: 0.01%

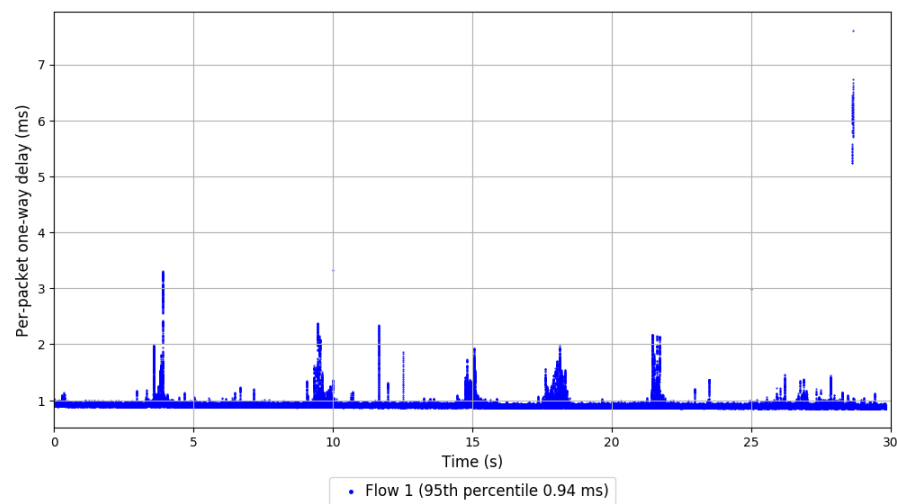
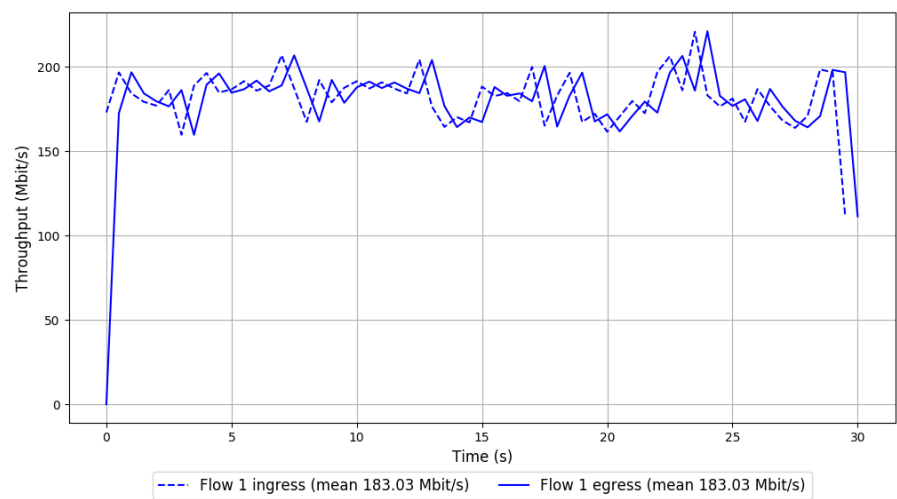
-- Flow 1:

Average throughput: 183.03 Mbit/s

95th percentile per-packet one-way delay: 0.943 ms

Loss rate: 0.01%

Run 5: Report of Indigo — Data Link

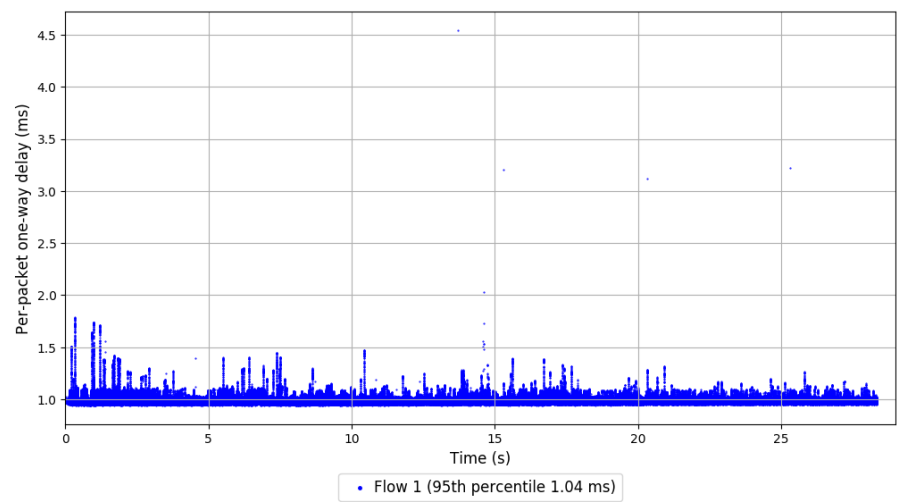
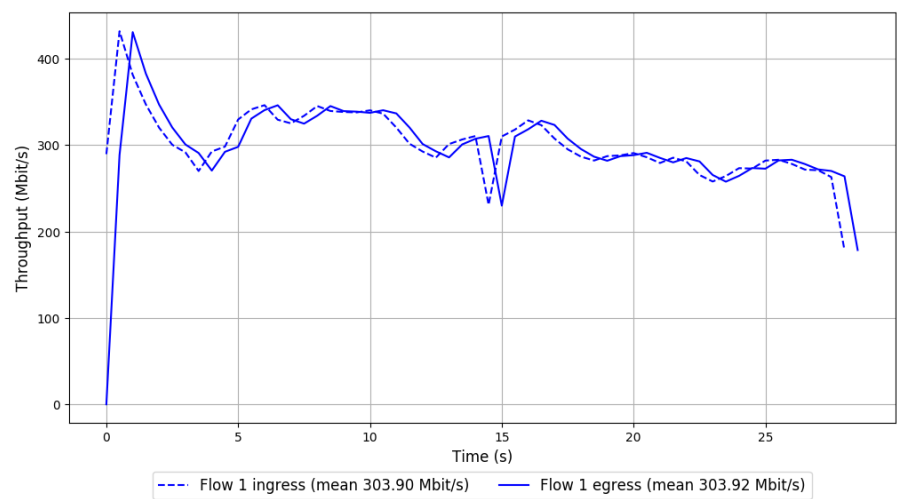


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-08-27 05:37:19  
End at: 2019-08-27 05:37:49  
Local clock offset: 0.178 ms  
Remote clock offset: -2.795 ms

# Below is generated by plot.py at 2019-08-27 09:07:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 303.92 Mbit/s  
95th percentile per-packet one-way delay: 1.040 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 303.92 Mbit/s  
95th percentile per-packet one-way delay: 1.040 ms  
Loss rate: 0.00%

Run 1: Report of Indigo-MusesC3 — Data Link

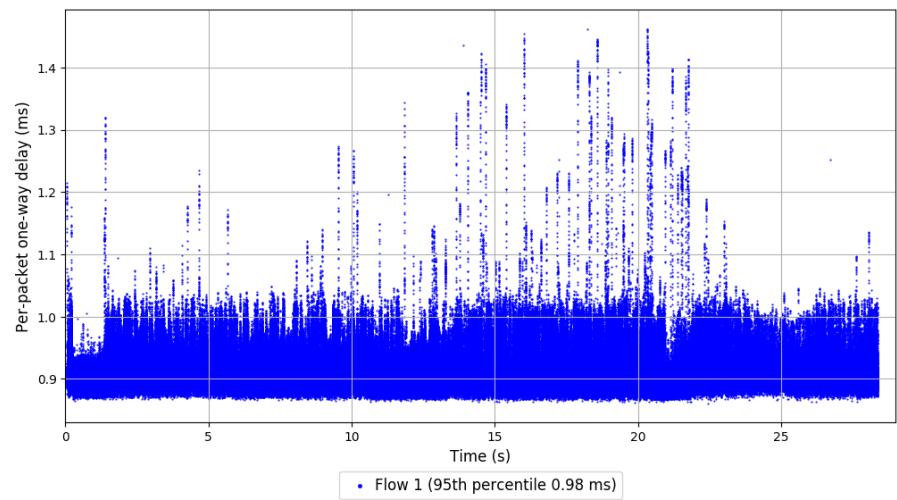
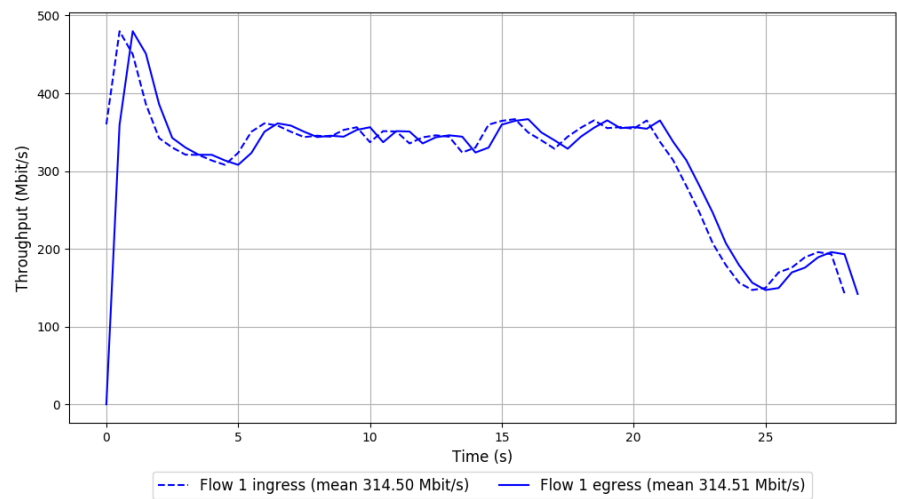


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-08-27 06:10:35  
End at: 2019-08-27 06:11:05  
Local clock offset: 0.825 ms  
Remote clock offset: -2.646 ms

# Below is generated by plot.py at 2019-08-27 09:07:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 314.51 Mbit/s  
95th percentile per-packet one-way delay: 0.979 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 314.51 Mbit/s  
95th percentile per-packet one-way delay: 0.979 ms  
Loss rate: 0.00%

Run 2: Report of Indigo-MusesC3 — Data Link

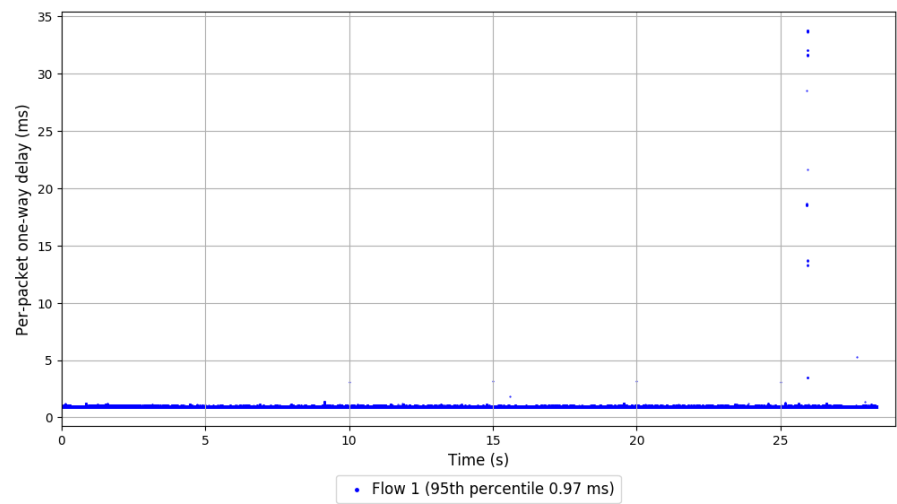
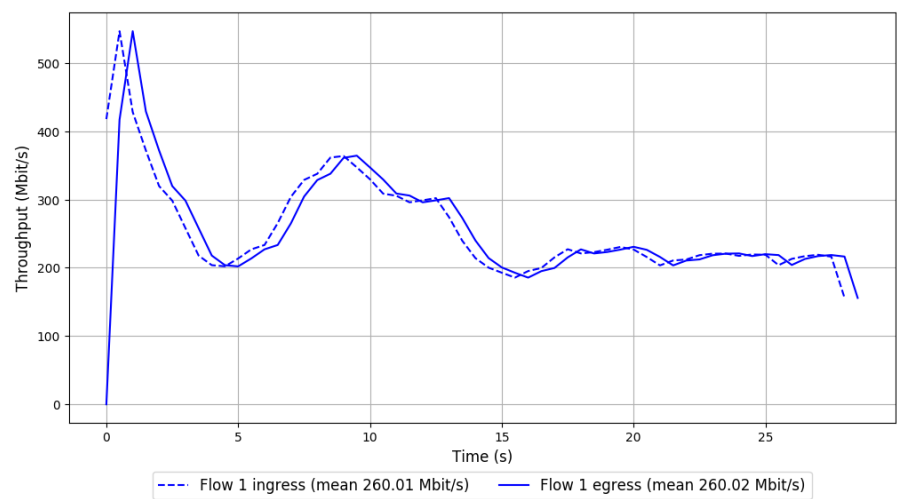


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-08-27 06:43:59  
End at: 2019-08-27 06:44:29  
Local clock offset: 1.096 ms  
Remote clock offset: -2.126 ms

# Below is generated by plot.py at 2019-08-27 09:07:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 260.02 Mbit/s  
95th percentile per-packet one-way delay: 0.971 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 260.02 Mbit/s  
95th percentile per-packet one-way delay: 0.971 ms  
Loss rate: 0.01%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-08-27 07:16:49

End at: 2019-08-27 07:17:19

Local clock offset: 1.234 ms

Remote clock offset: 3.12 ms

# Below is generated by plot.py at 2019-08-27 09:07:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 275.70 Mbit/s

95th percentile per-packet one-way delay: 1.043 ms

Loss rate: 0.00%

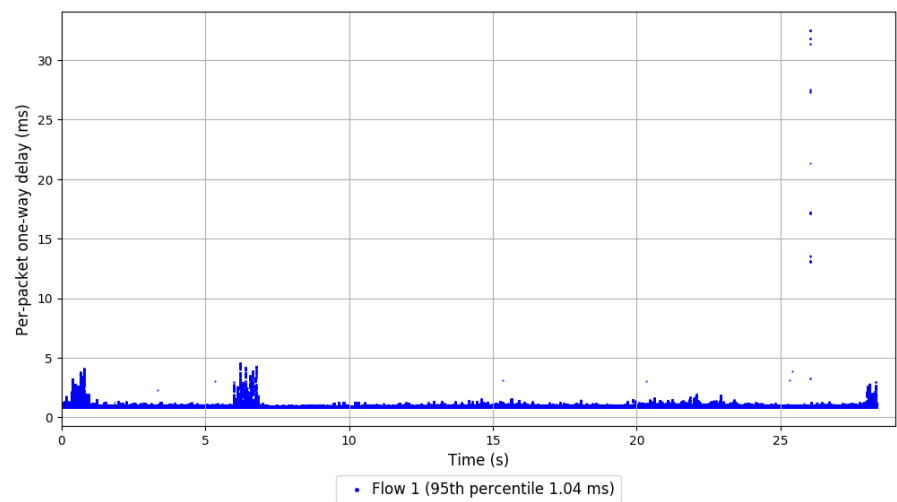
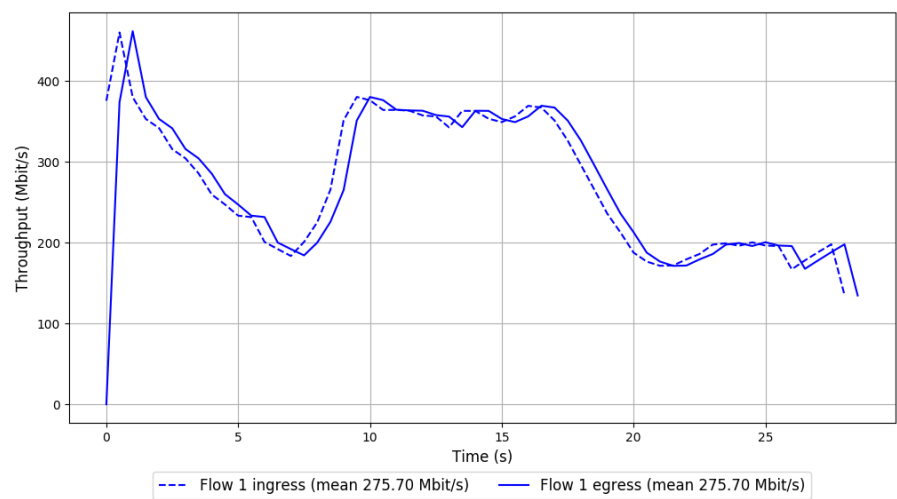
-- Flow 1:

Average throughput: 275.70 Mbit/s

95th percentile per-packet one-way delay: 1.043 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-08-27 07:49:50

End at: 2019-08-27 07:50:20

Local clock offset: 1.139 ms

Remote clock offset: 0.999 ms

# Below is generated by plot.py at 2019-08-27 09:07:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 296.03 Mbit/s

95th percentile per-packet one-way delay: 0.945 ms

Loss rate: 0.00%

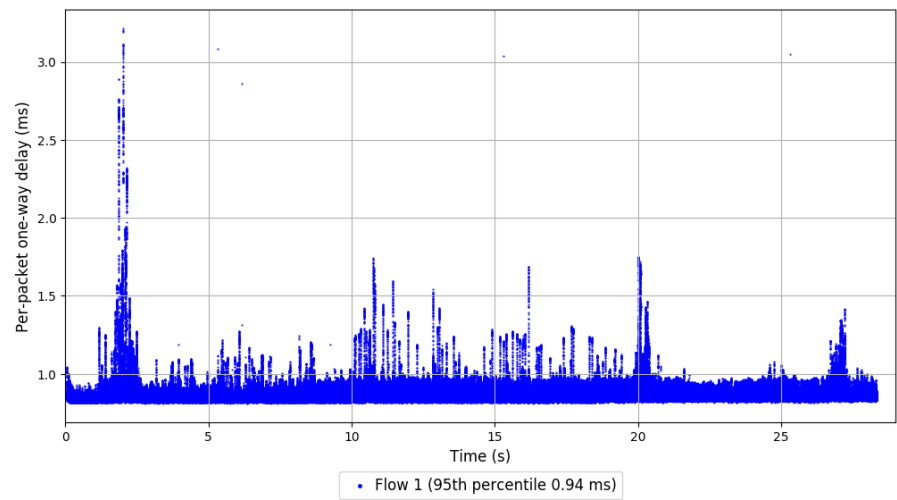
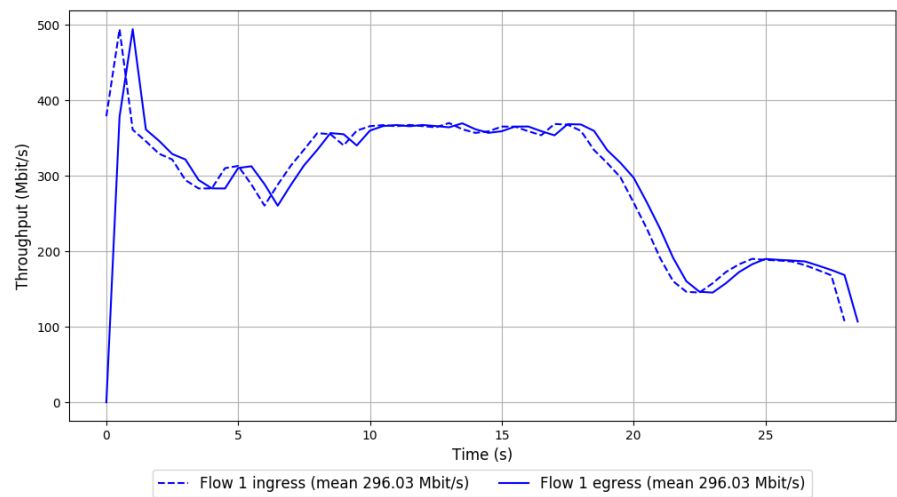
-- Flow 1:

Average throughput: 296.03 Mbit/s

95th percentile per-packet one-way delay: 0.945 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesC3 — Data Link

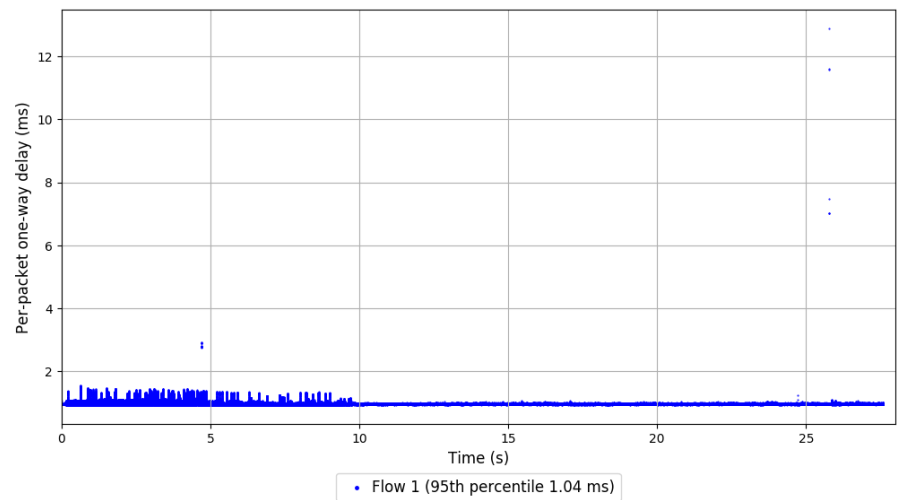
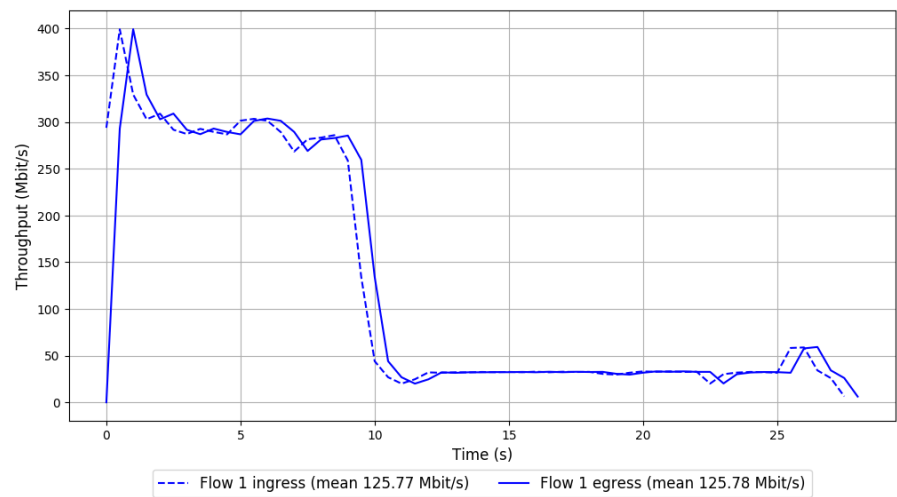


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-08-27 05:34:48  
End at: 2019-08-27 05:35:18  
Local clock offset: 0.138 ms  
Remote clock offset: -2.842 ms

# Below is generated by plot.py at 2019-08-27 09:07:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 125.78 Mbit/s  
95th percentile per-packet one-way delay: 1.036 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 125.78 Mbit/s  
95th percentile per-packet one-way delay: 1.036 ms  
Loss rate: 0.00%

Run 1: Report of Indigo-MusesC5 — Data Link

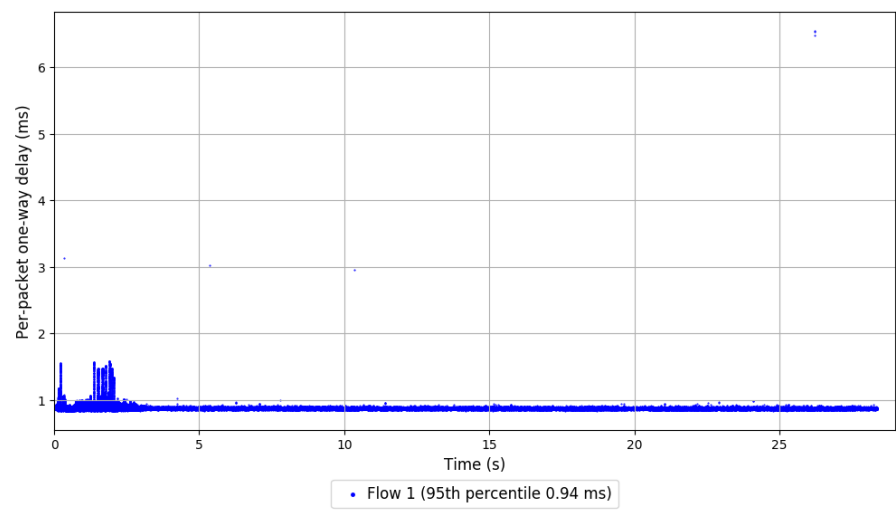
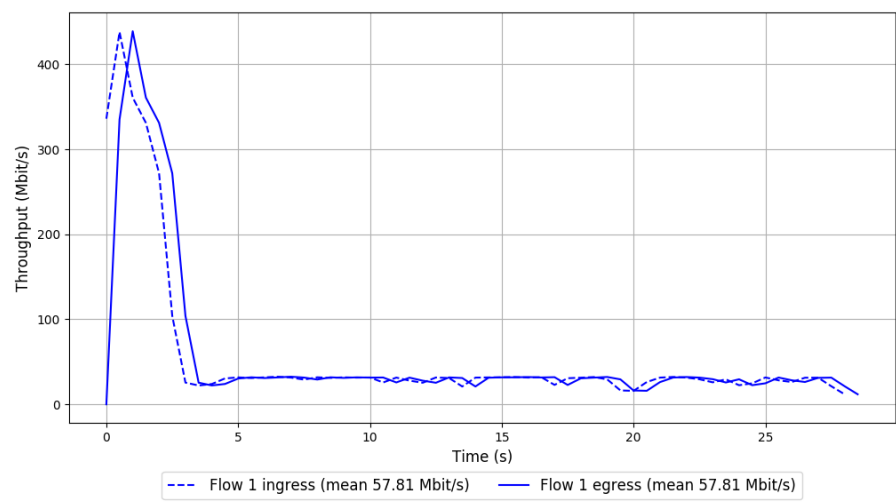


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-08-27 06:08:06  
End at: 2019-08-27 06:08:36  
Local clock offset: 0.74 ms  
Remote clock offset: -2.664 ms

# Below is generated by plot.py at 2019-08-27 09:07:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 57.81 Mbit/s  
95th percentile per-packet one-way delay: 0.943 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 57.81 Mbit/s  
95th percentile per-packet one-way delay: 0.943 ms  
Loss rate: 0.00%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-08-27 06:41:26

End at: 2019-08-27 06:41:56

Local clock offset: 1.037 ms

Remote clock offset: -2.28 ms

# Below is generated by plot.py at 2019-08-27 09:07:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 187.17 Mbit/s

95th percentile per-packet one-way delay: 0.951 ms

Loss rate: 0.01%

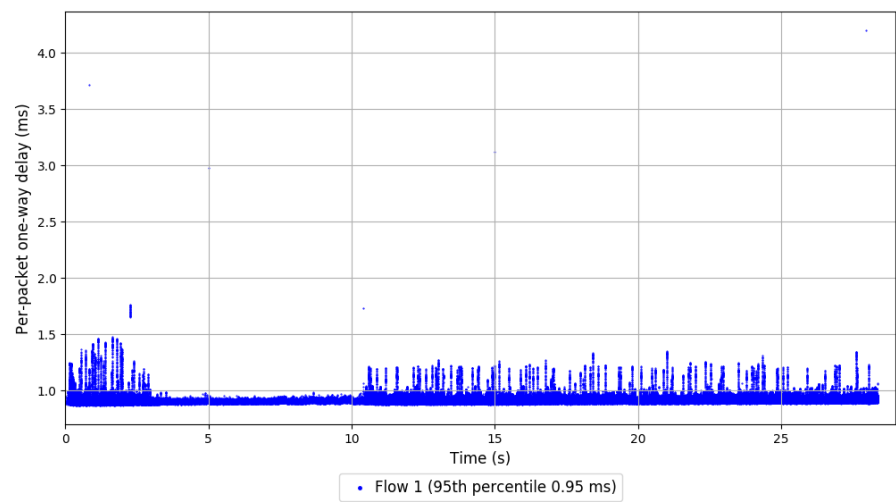
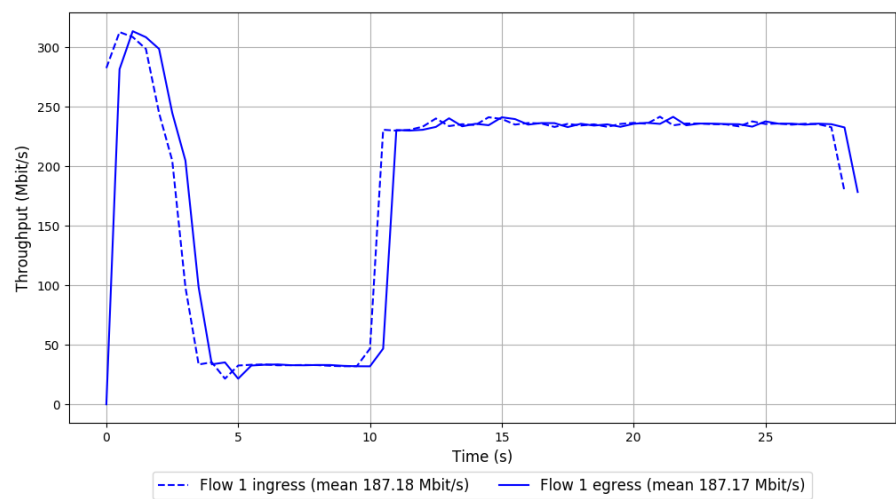
-- Flow 1:

Average throughput: 187.17 Mbit/s

95th percentile per-packet one-way delay: 0.951 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-08-27 07:14:20

End at: 2019-08-27 07:14:50

Local clock offset: 1.261 ms

Remote clock offset: 3.058 ms

# Below is generated by plot.py at 2019-08-27 09:07:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.52 Mbit/s

95th percentile per-packet one-way delay: 0.975 ms

Loss rate: 0.00%

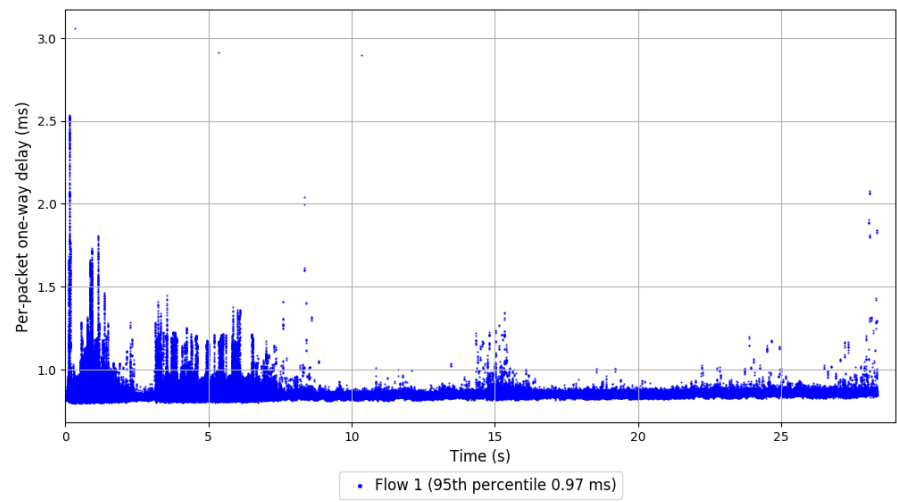
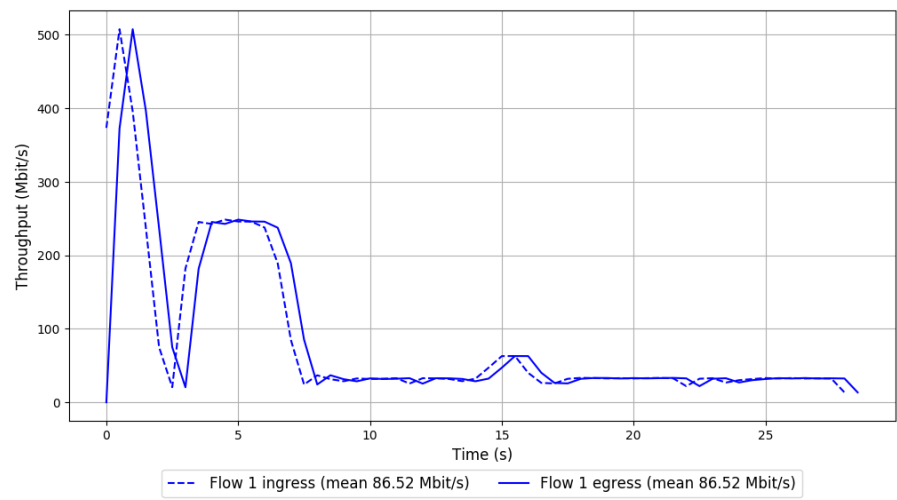
-- Flow 1:

Average throughput: 86.52 Mbit/s

95th percentile per-packet one-way delay: 0.975 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-08-27 07:47:20

End at: 2019-08-27 07:47:50

Local clock offset: 1.148 ms

Remote clock offset: 0.946 ms

# Below is generated by plot.py at 2019-08-27 09:07:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 98.87 Mbit/s

95th percentile per-packet one-way delay: 1.000 ms

Loss rate: 0.03%

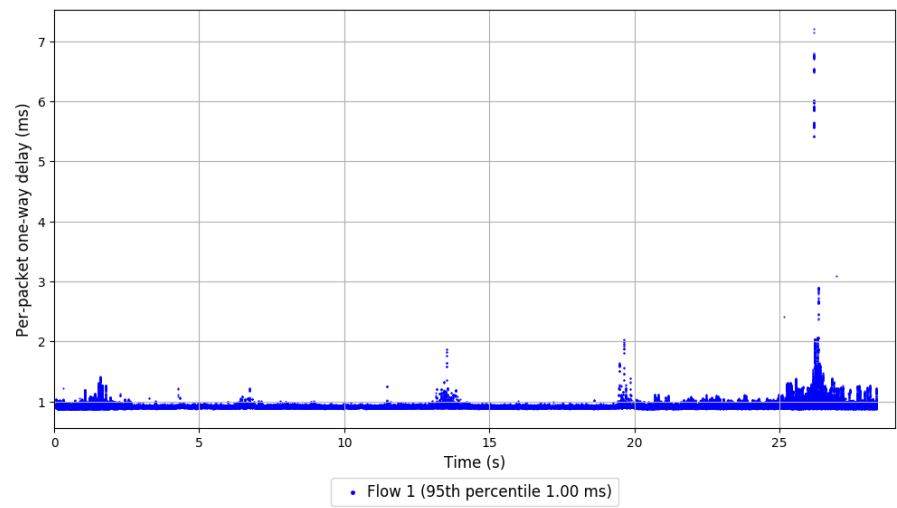
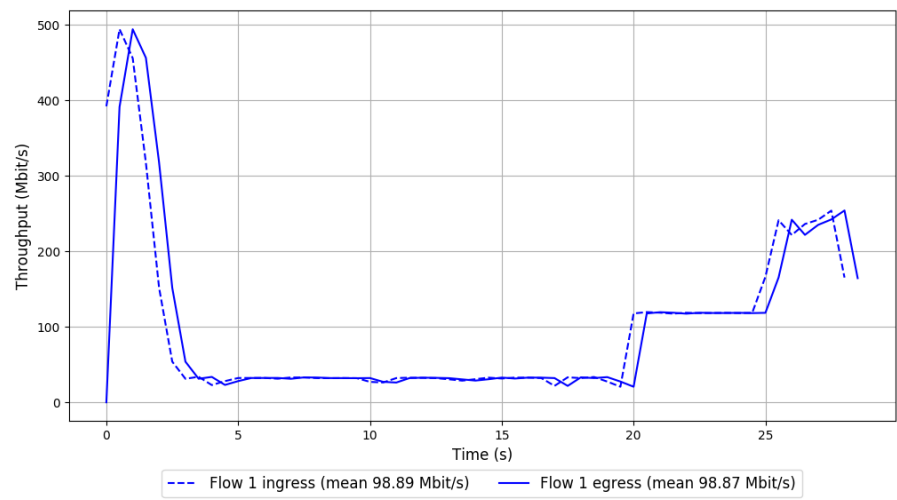
-- Flow 1:

Average throughput: 98.87 Mbit/s

95th percentile per-packet one-way delay: 1.000 ms

Loss rate: 0.03%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-08-27 05:56:48

End at: 2019-08-27 05:57:19

Local clock offset: 0.552 ms

Remote clock offset: -2.774 ms

# Below is generated by plot.py at 2019-08-27 09:07:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.20 Mbit/s

95th percentile per-packet one-way delay: 0.981 ms

Loss rate: 0.01%

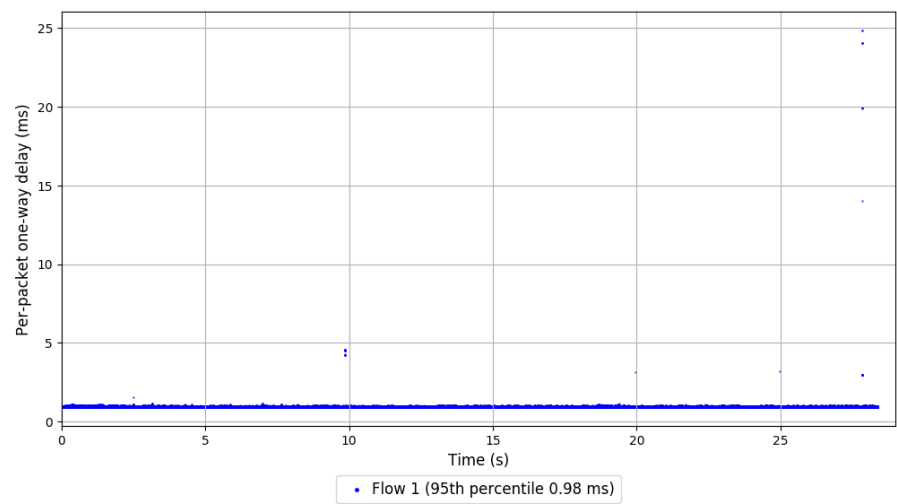
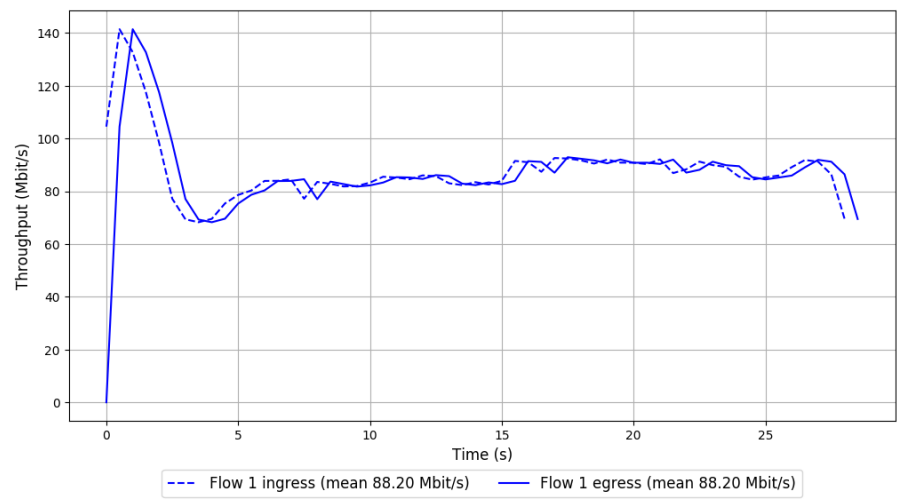
-- Flow 1:

Average throughput: 88.20 Mbit/s

95th percentile per-packet one-way delay: 0.981 ms

Loss rate: 0.01%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-08-27 06:30:06

End at: 2019-08-27 06:30:36

Local clock offset: 0.957 ms

Remote clock offset: -2.653 ms

# Below is generated by plot.py at 2019-08-27 09:07:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.99 Mbit/s

95th percentile per-packet one-way delay: 0.873 ms

Loss rate: 0.01%

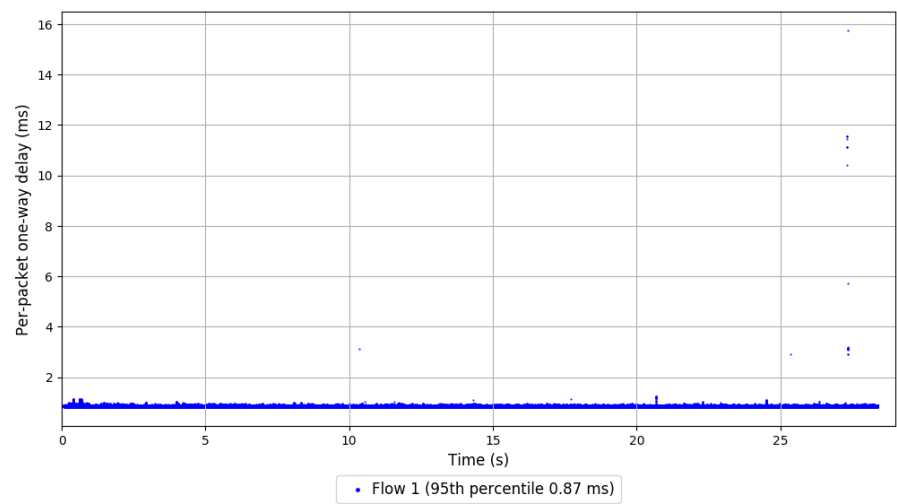
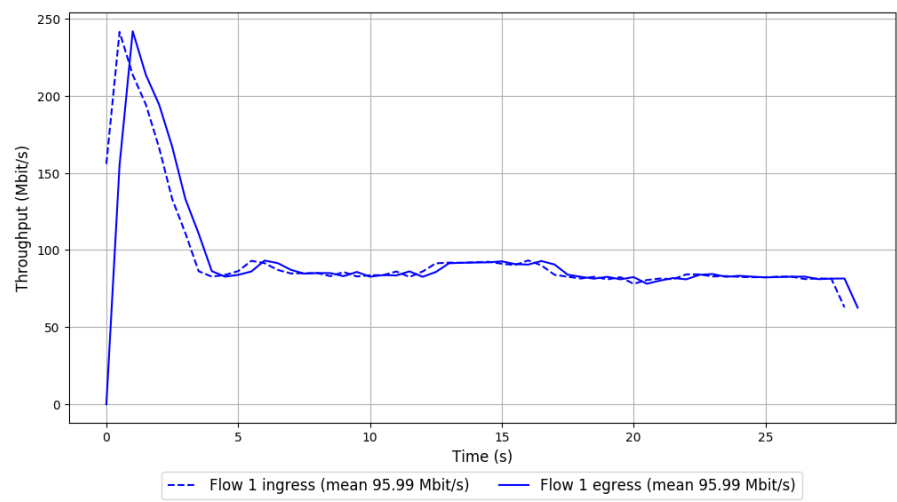
-- Flow 1:

Average throughput: 95.99 Mbit/s

95th percentile per-packet one-way delay: 0.873 ms

Loss rate: 0.01%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-08-27 07:03:03

End at: 2019-08-27 07:03:33

Local clock offset: 1.261 ms

Remote clock offset: 1.988 ms

# Below is generated by plot.py at 2019-08-27 09:07:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.58 Mbit/s

95th percentile per-packet one-way delay: 1.040 ms

Loss rate: 0.00%

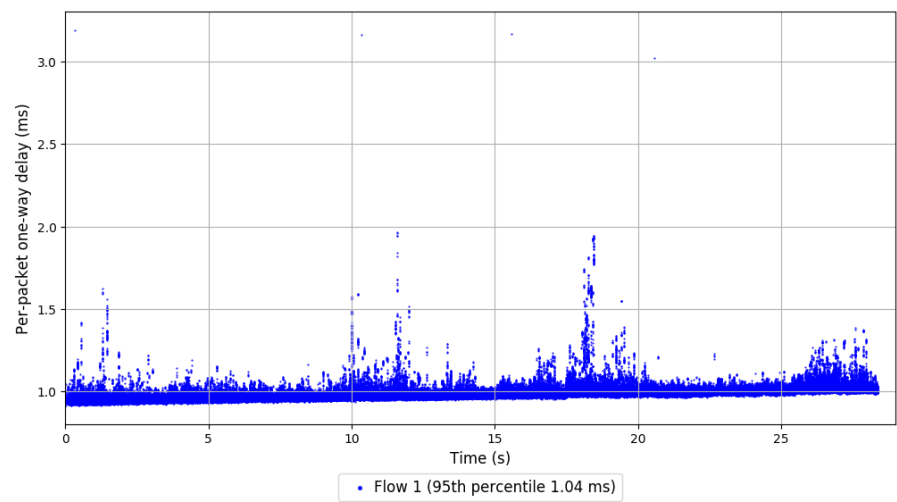
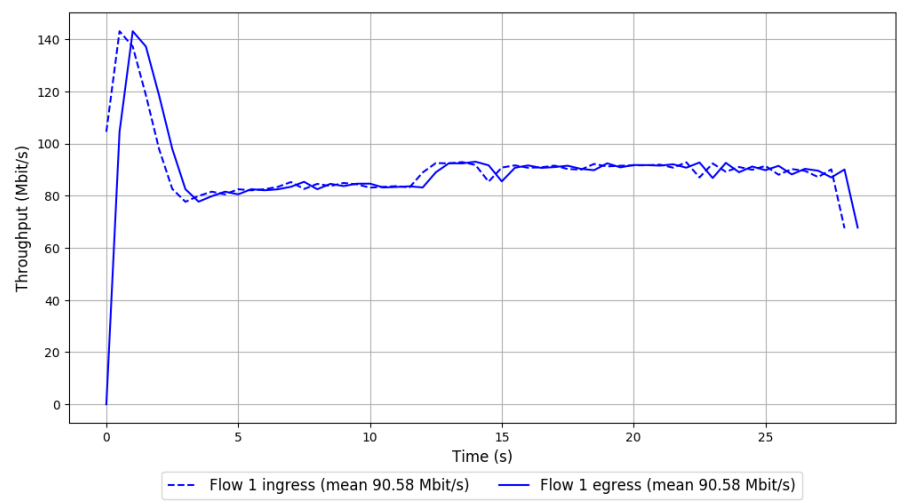
-- Flow 1:

Average throughput: 90.58 Mbit/s

95th percentile per-packet one-way delay: 1.040 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-08-27 07:35:57

End at: 2019-08-27 07:36:27

Local clock offset: 1.206 ms

Remote clock offset: 1.312 ms

# Below is generated by plot.py at 2019-08-27 09:07:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 105.28 Mbit/s

95th percentile per-packet one-way delay: 0.987 ms

Loss rate: 0.00%

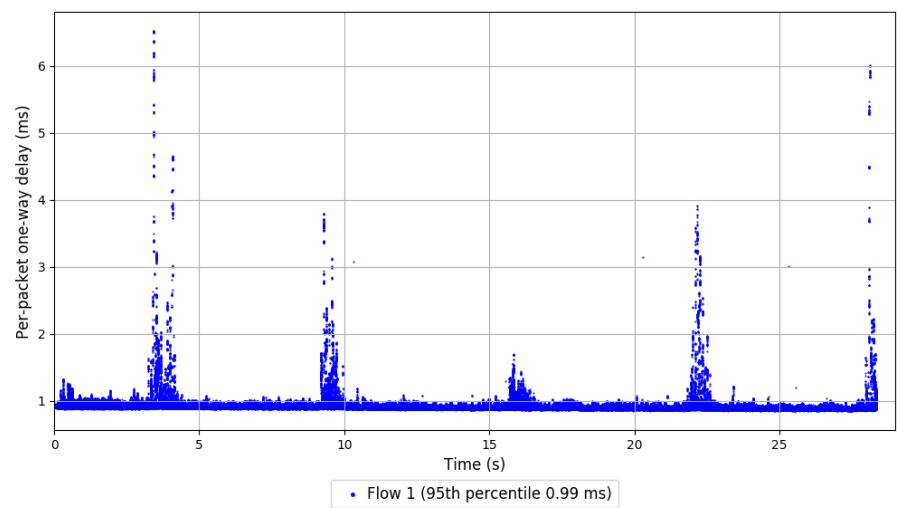
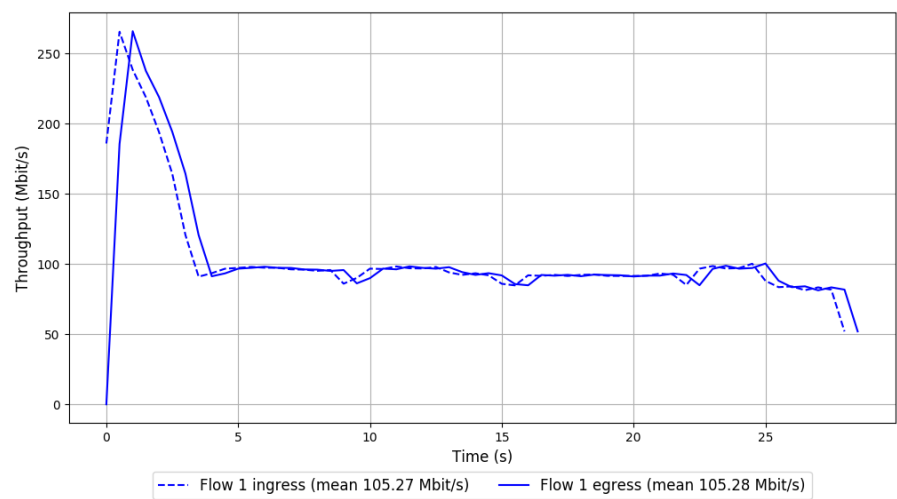
-- Flow 1:

Average throughput: 105.28 Mbit/s

95th percentile per-packet one-way delay: 0.987 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

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

End at: 2019-08-27 08:09:39

Local clock offset: 1.161 ms

Remote clock offset: 0.549 ms

# Below is generated by plot.py at 2019-08-27 09:07:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.12 Mbit/s

95th percentile per-packet one-way delay: 0.958 ms

Loss rate: 0.01%

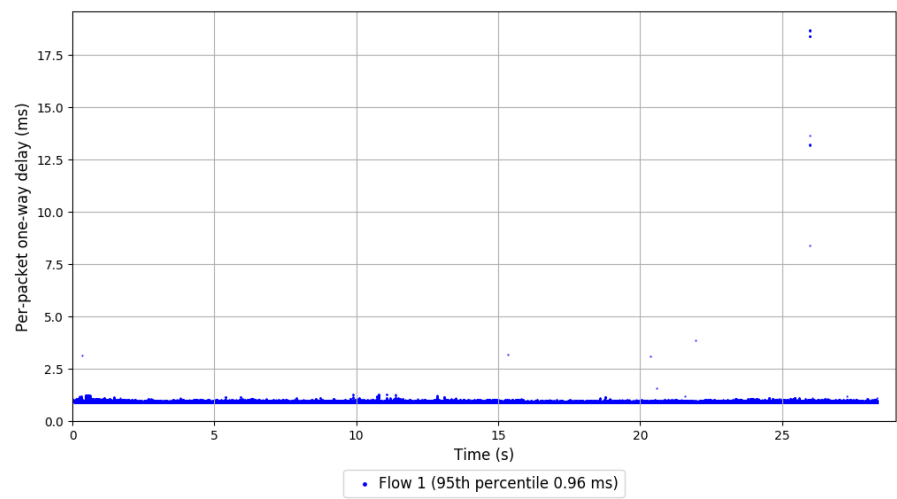
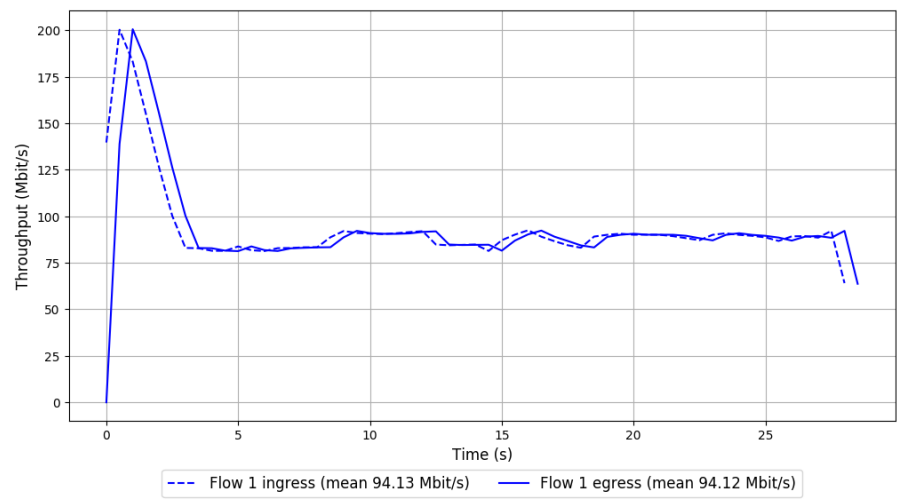
-- Flow 1:

Average throughput: 94.12 Mbit/s

95th percentile per-packet one-way delay: 0.958 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesD — Data Link

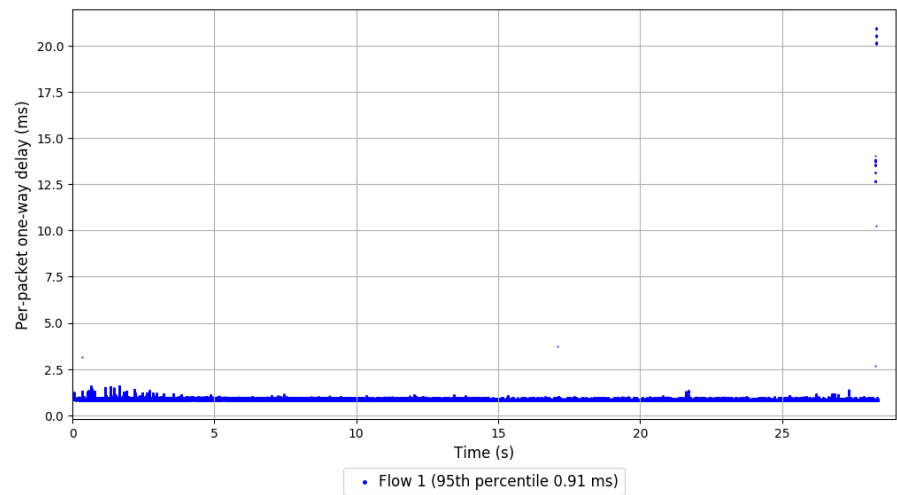
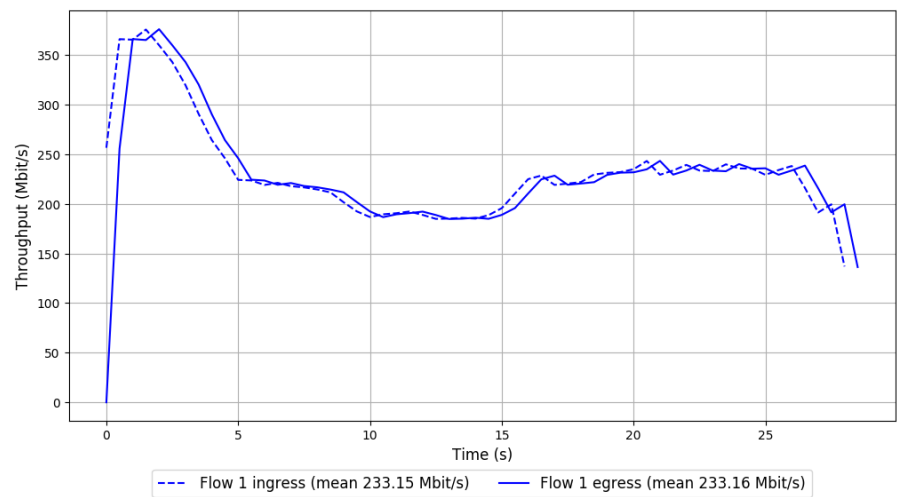


Run 1: Statistics of Indigo-MusesT

Start at: 2019-08-27 05:51:29  
End at: 2019-08-27 05:51:59  
Local clock offset: 0.452 ms  
Remote clock offset: -2.627 ms

# Below is generated by plot.py at 2019-08-27 09:07:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 233.16 Mbit/s  
95th percentile per-packet one-way delay: 0.913 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 233.16 Mbit/s  
95th percentile per-packet one-way delay: 0.913 ms  
Loss rate: 0.01%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-08-27 06:24:45

End at: 2019-08-27 06:25:15

Local clock offset: 0.917 ms

Remote clock offset: -2.648 ms

# Below is generated by plot.py at 2019-08-27 09:07:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 235.84 Mbit/s

95th percentile per-packet one-way delay: 0.907 ms

Loss rate: 0.01%

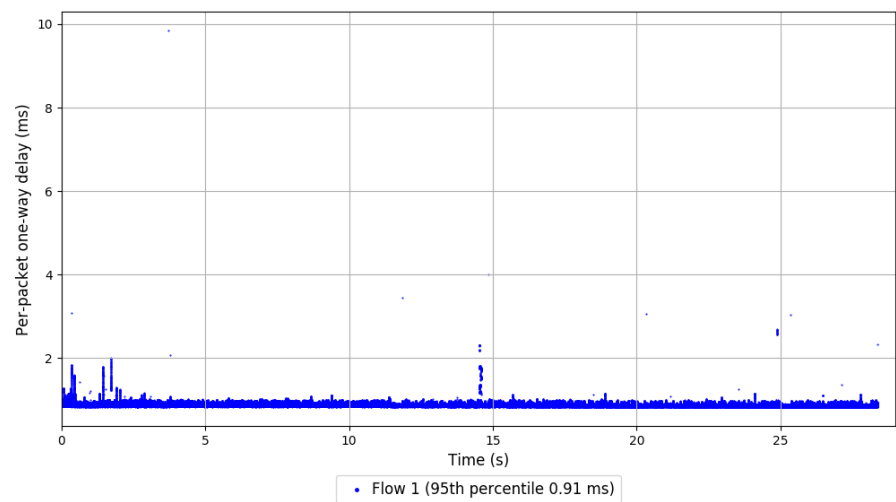
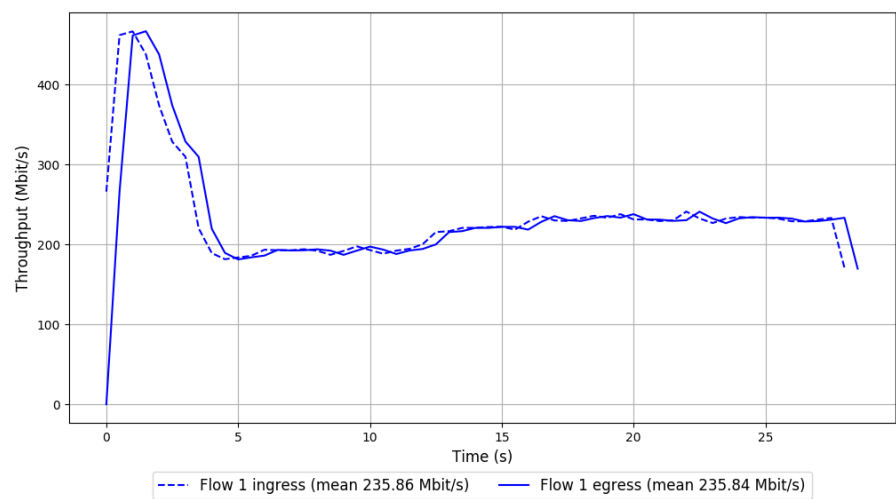
-- Flow 1:

Average throughput: 235.84 Mbit/s

95th percentile per-packet one-way delay: 0.907 ms

Loss rate: 0.01%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-08-27 06:57:43

End at: 2019-08-27 06:58:13

Local clock offset: 1.202 ms

Remote clock offset: 0.762 ms

# Below is generated by plot.py at 2019-08-27 09:07:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 237.30 Mbit/s

95th percentile per-packet one-way delay: 1.096 ms

Loss rate: 0.01%

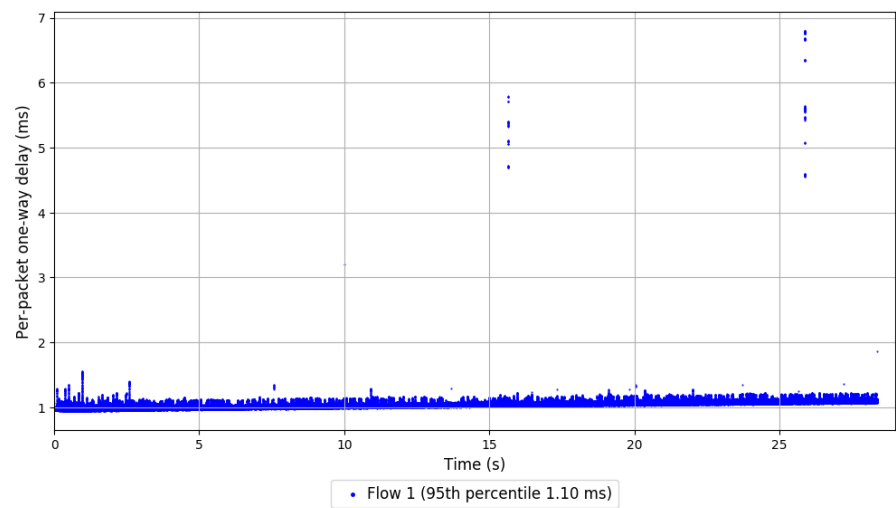
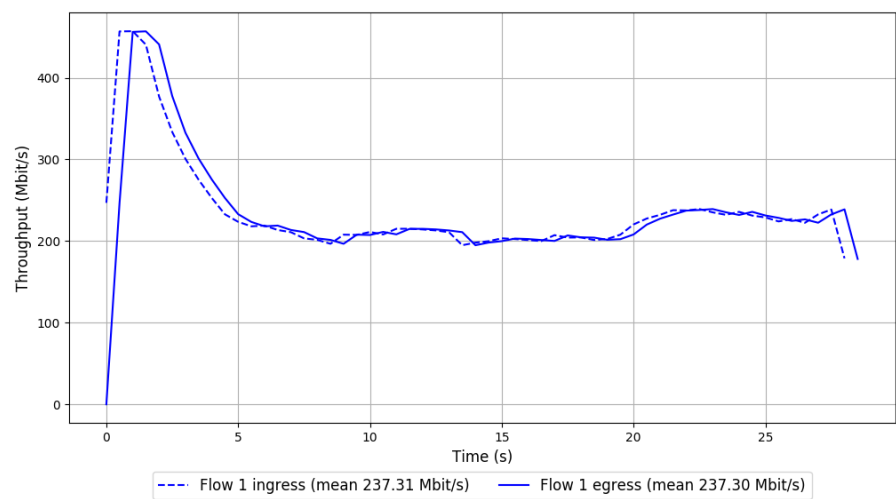
-- Flow 1:

Average throughput: 237.30 Mbit/s

95th percentile per-packet one-way delay: 1.096 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-08-27 07:30:36

End at: 2019-08-27 07:31:06

Local clock offset: 1.228 ms

Remote clock offset: 2.07 ms

# Below is generated by plot.py at 2019-08-27 09:07:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 212.00 Mbit/s

95th percentile per-packet one-way delay: 0.916 ms

Loss rate: 0.01%

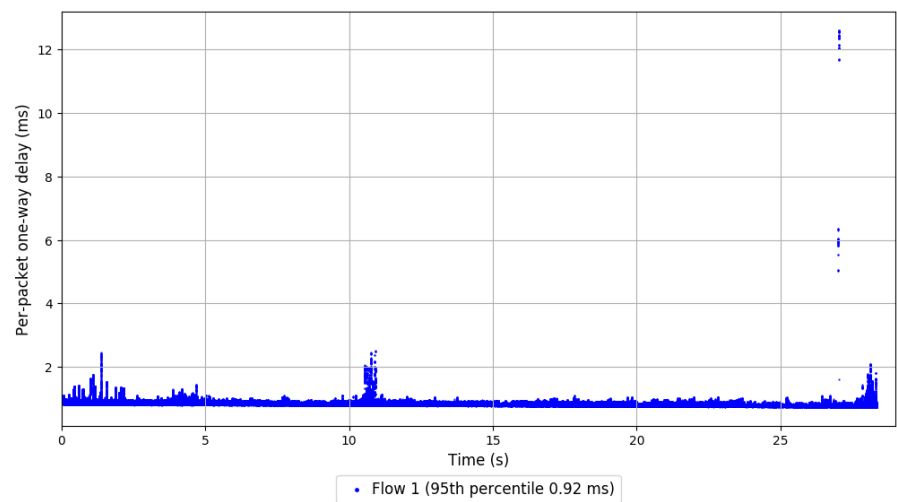
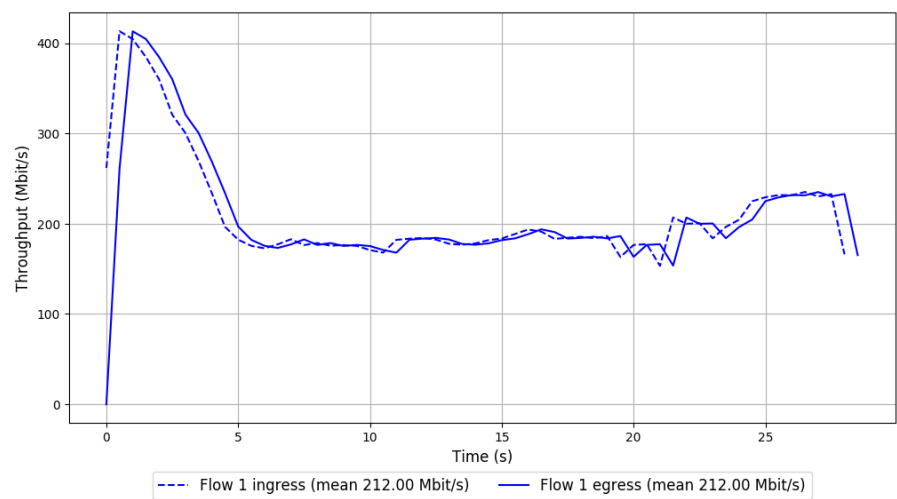
-- Flow 1:

Average throughput: 212.00 Mbit/s

95th percentile per-packet one-way delay: 0.916 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-08-27 08:03:47

End at: 2019-08-27 08:04:17

Local clock offset: 1.154 ms

Remote clock offset: 0.741 ms

# Below is generated by plot.py at 2019-08-27 09:07:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 241.04 Mbit/s

95th percentile per-packet one-way delay: 0.961 ms

Loss rate: 0.00%

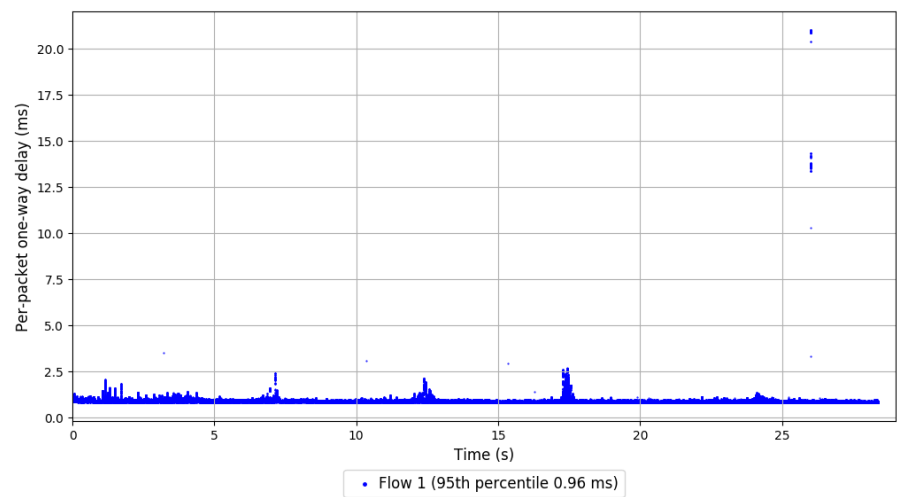
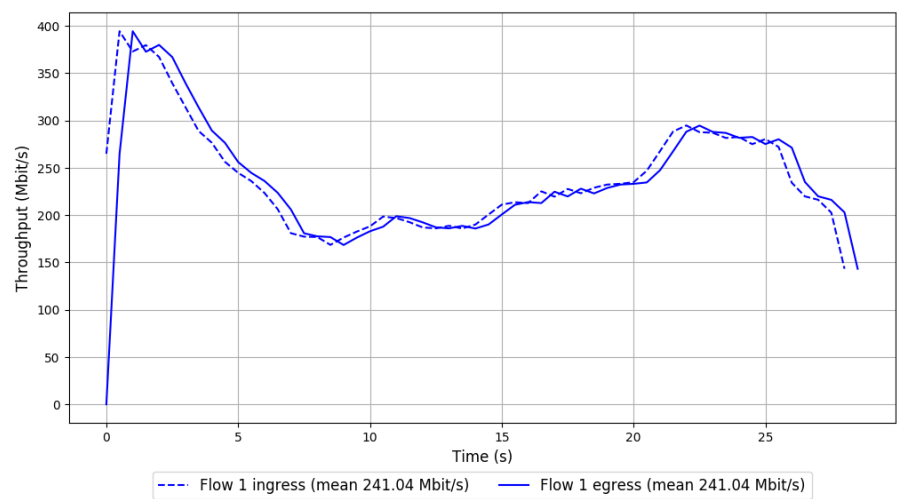
-- Flow 1:

Average throughput: 241.04 Mbit/s

95th percentile per-packet one-way delay: 0.961 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesT — Data Link

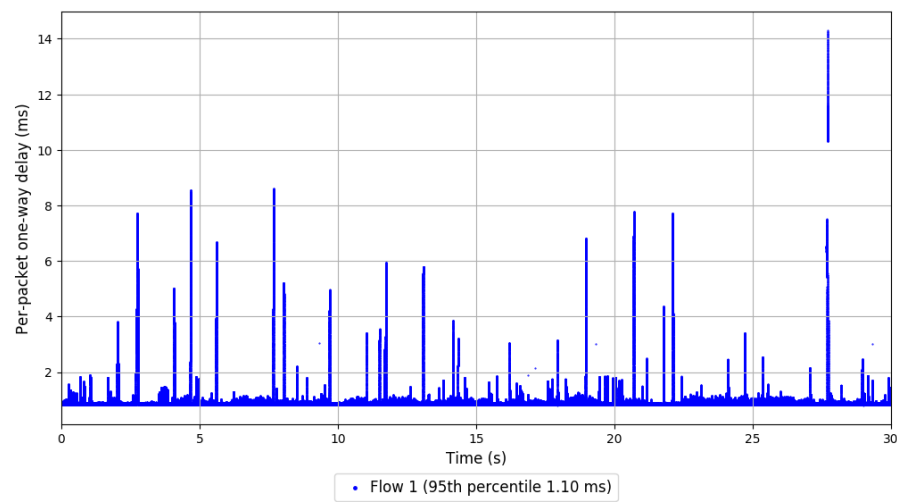
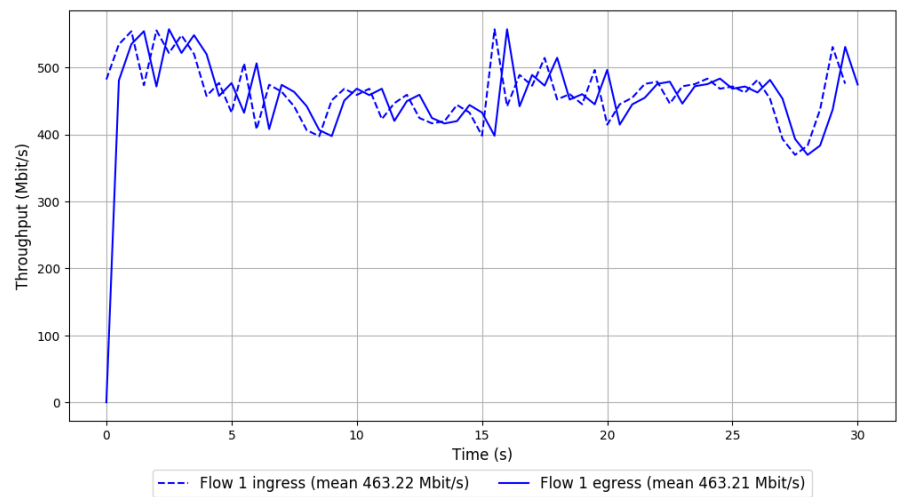


Run 1: Statistics of LEDBAT

Start at: 2019-08-27 06:02:11  
End at: 2019-08-27 06:02:41  
Local clock offset: 0.64 ms  
Remote clock offset: -2.665 ms

# Below is generated by plot.py at 2019-08-27 09:08:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 463.21 Mbit/s  
95th percentile per-packet one-way delay: 1.098 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 463.21 Mbit/s  
95th percentile per-packet one-way delay: 1.098 ms  
Loss rate: 0.01%

Run 1: Report of LEDBAT — Data Link

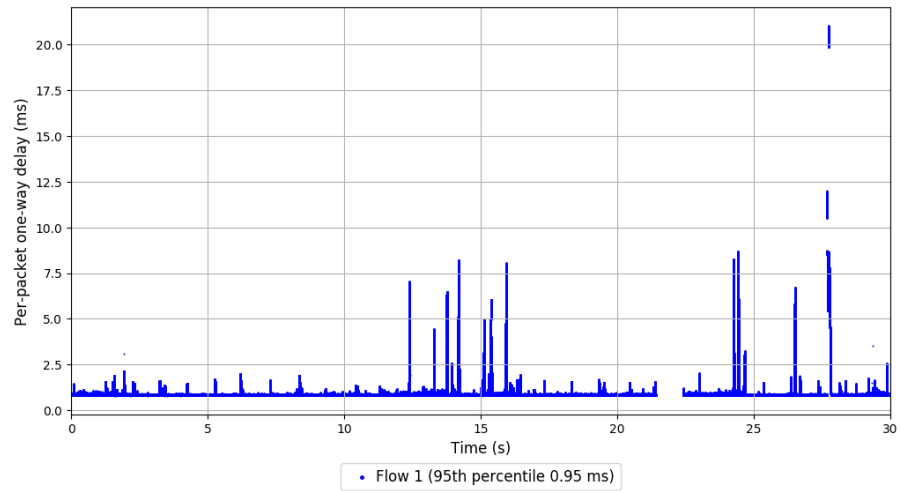
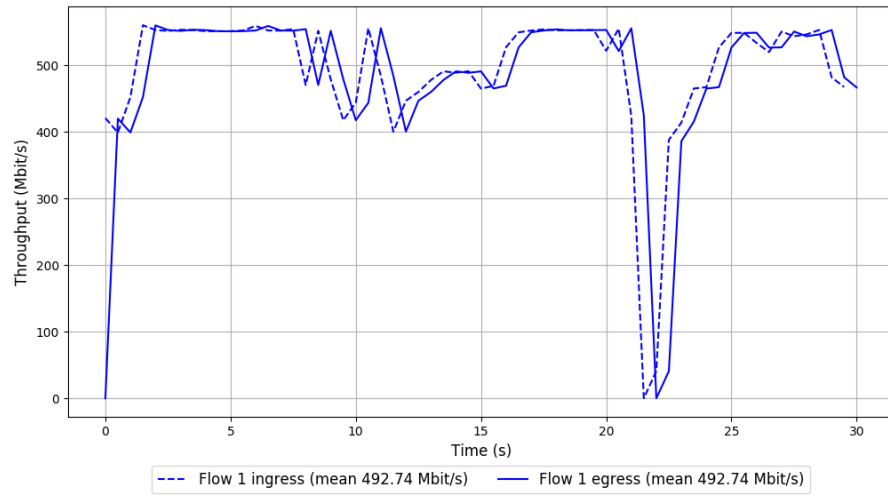


Run 2: Statistics of LEDBAT

Start at: 2019-08-27 06:35:28  
End at: 2019-08-27 06:35:58  
Local clock offset: 0.999 ms  
Remote clock offset: -2.466 ms

# Below is generated by plot.py at 2019-08-27 09:08:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 492.74 Mbit/s  
95th percentile per-packet one-way delay: 0.952 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 492.74 Mbit/s  
95th percentile per-packet one-way delay: 0.952 ms  
Loss rate: 0.01%

## Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-08-27 07:08:22

End at: 2019-08-27 07:08:52

Local clock offset: 1.278 ms

Remote clock offset: 2.598 ms

# Below is generated by plot.py at 2019-08-27 09:09:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 466.41 Mbit/s

95th percentile per-packet one-way delay: 3.479 ms

Loss rate: 0.01%

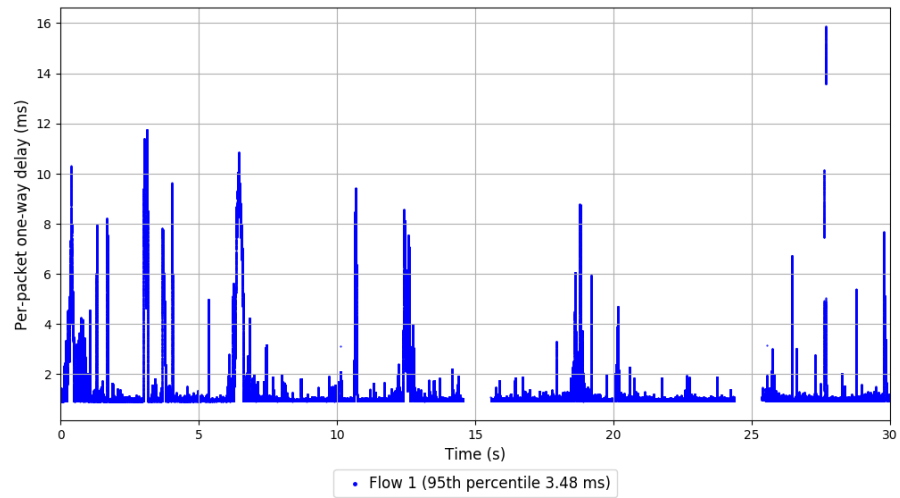
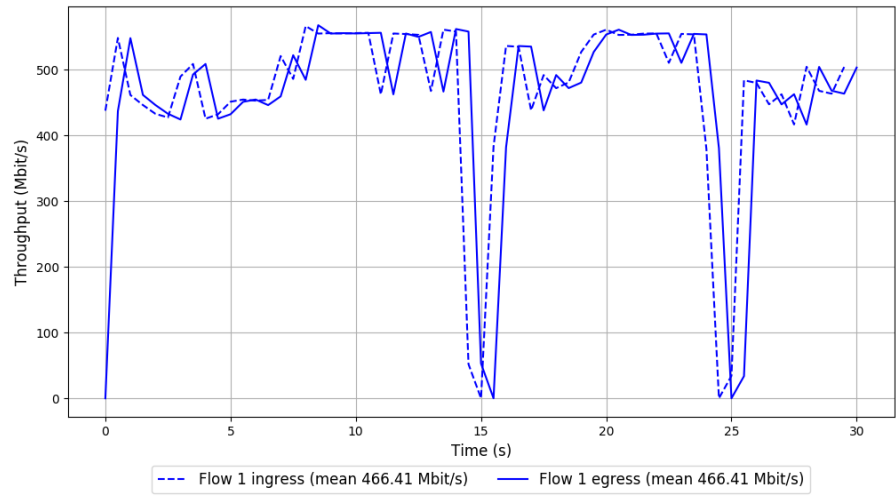
-- Flow 1:

Average throughput: 466.41 Mbit/s

95th percentile per-packet one-way delay: 3.479 ms

Loss rate: 0.01%

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



Run 4: Statistics of LEDBAT

Start at: 2019-08-27 07:41:20

End at: 2019-08-27 07:41:50

Local clock offset: 1.165 ms

Remote clock offset: 1.044 ms

# Below is generated by plot.py at 2019-08-27 09:09:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 455.93 Mbit/s

95th percentile per-packet one-way delay: 15.462 ms

Loss rate: 0.05%

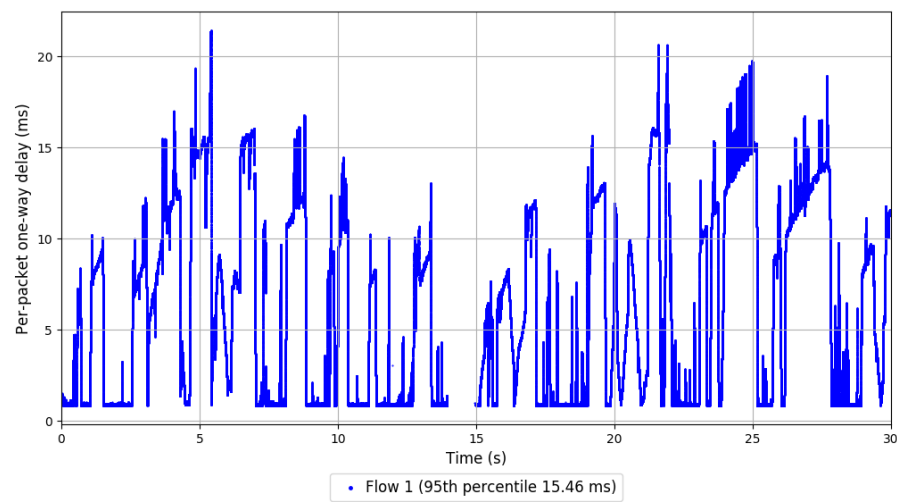
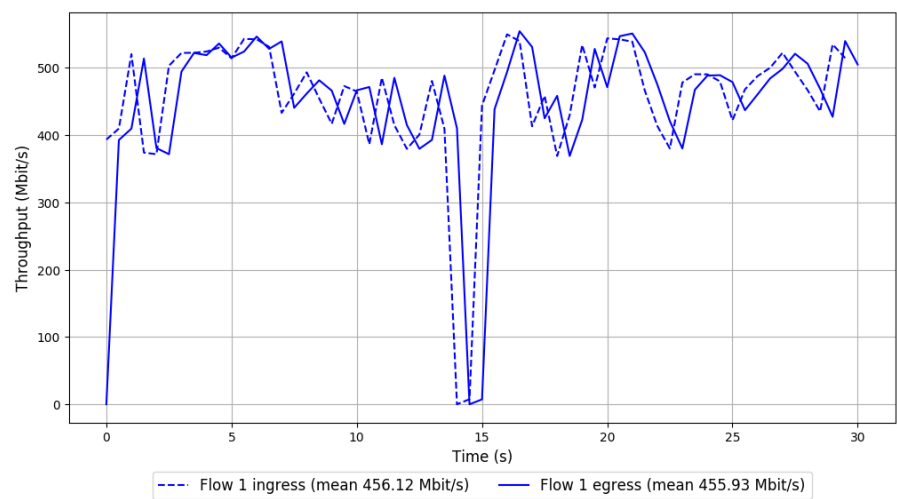
-- Flow 1:

Average throughput: 455.93 Mbit/s

95th percentile per-packet one-way delay: 15.462 ms

Loss rate: 0.05%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-08-27 08:14:32

End at: 2019-08-27 08:15:02

Local clock offset: 1.15 ms

Remote clock offset: 0.455 ms

# Below is generated by plot.py at 2019-08-27 09:09:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 438.79 Mbit/s

95th percentile per-packet one-way delay: 12.011 ms

Loss rate: 0.00%

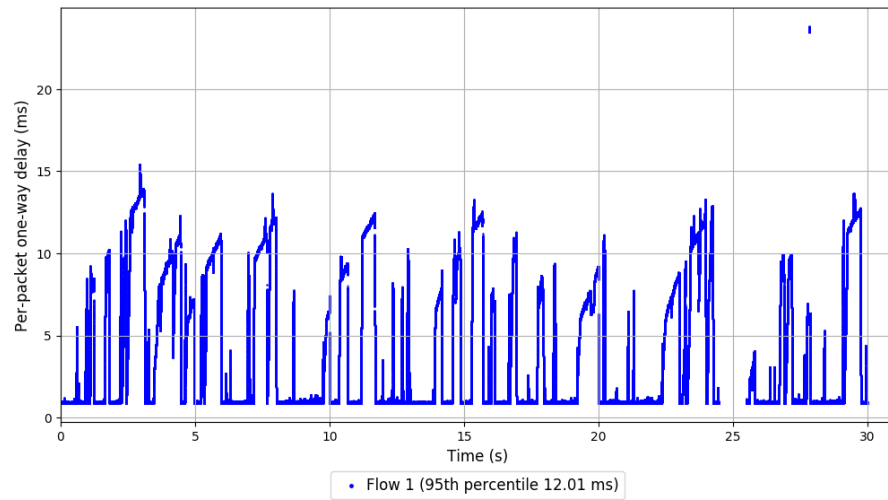
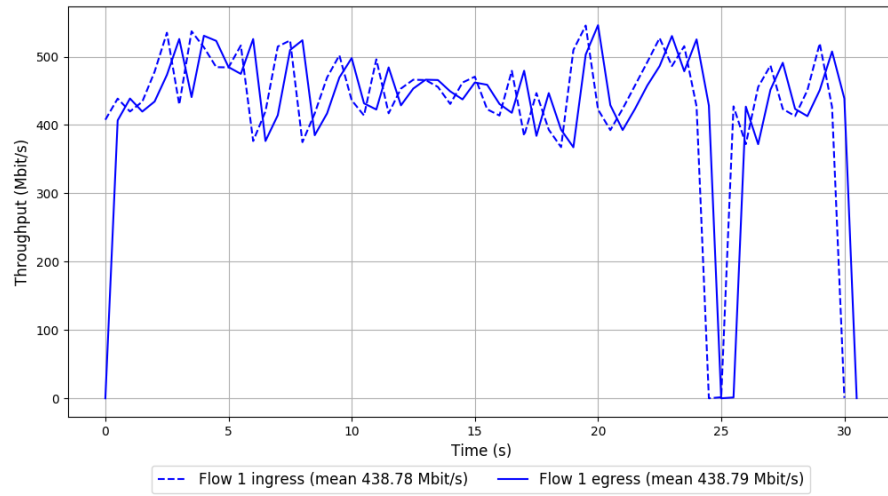
-- Flow 1:

Average throughput: 438.79 Mbit/s

95th percentile per-packet one-way delay: 12.011 ms

Loss rate: 0.00%

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

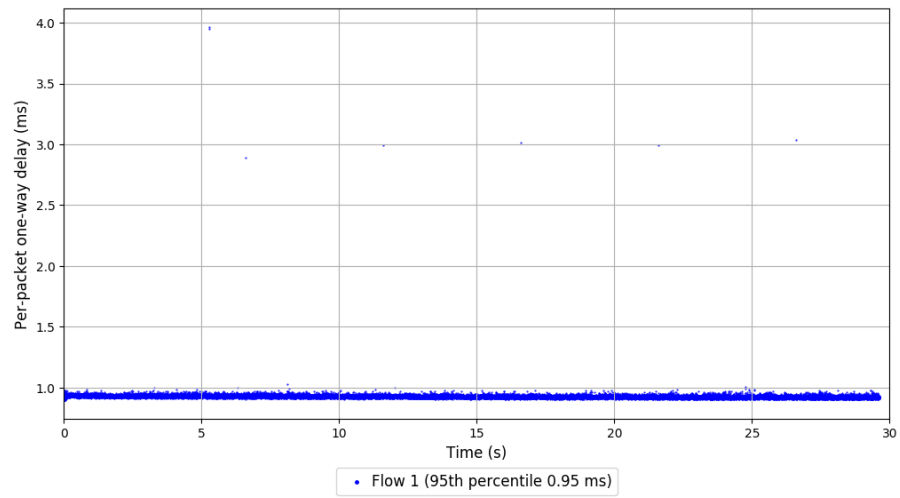
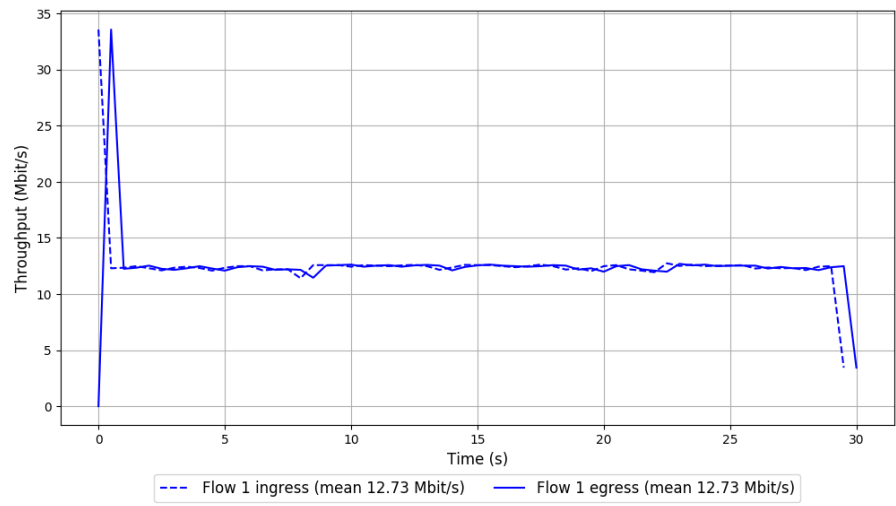


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-08-27 05:54:14
End at: 2019-08-27 05:54:44
Local clock offset: 0.506 ms
Remote clock offset: -2.736 ms

# Below is generated by plot.py at 2019-08-27 09:09:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 0.946 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 0.946 ms
Loss rate: 0.01%
```

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



Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-08-27 06:27:31  
End at: 2019-08-27 06:28:01  
Local clock offset: 0.93 ms  
Remote clock offset: -2.675 ms

# Below is generated by plot.py at 2019-08-27 09:09:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.22 Mbit/s

95th percentile per-packet one-way delay: 0.889 ms

Loss rate: 0.01%

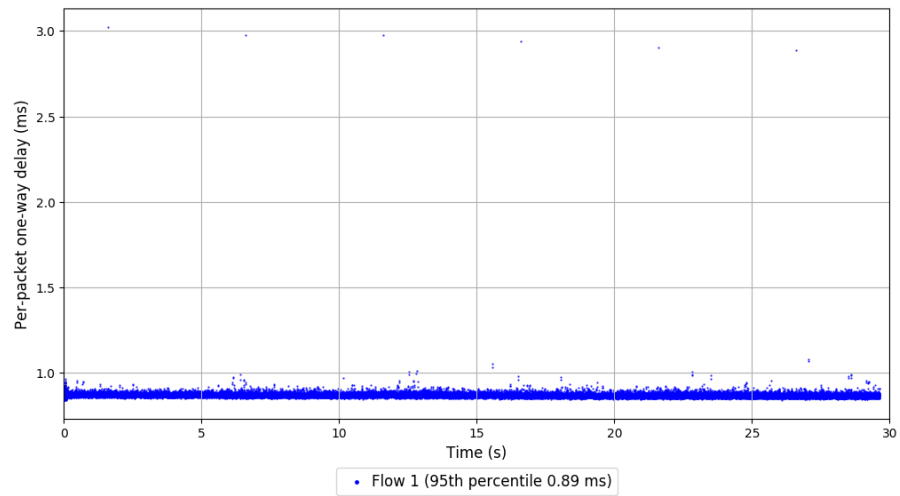
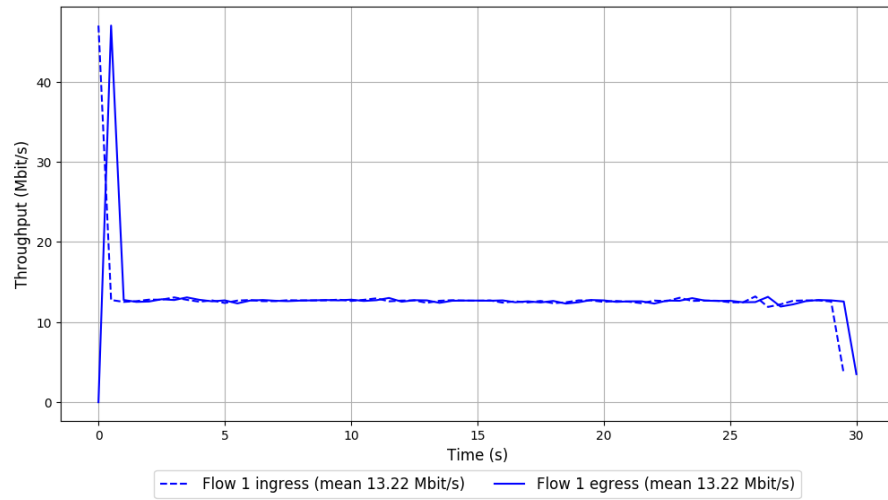
-- Flow 1:

Average throughput: 13.22 Mbit/s

95th percentile per-packet one-way delay: 0.889 ms

Loss rate: 0.01%

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



Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-08-27 07:00:29

End at: 2019-08-27 07:00:59

Local clock offset: 1.24 ms

Remote clock offset: 1.441 ms

# Below is generated by plot.py at 2019-08-27 09:09:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.76 Mbit/s

95th percentile per-packet one-way delay: 1.106 ms

Loss rate: 0.01%

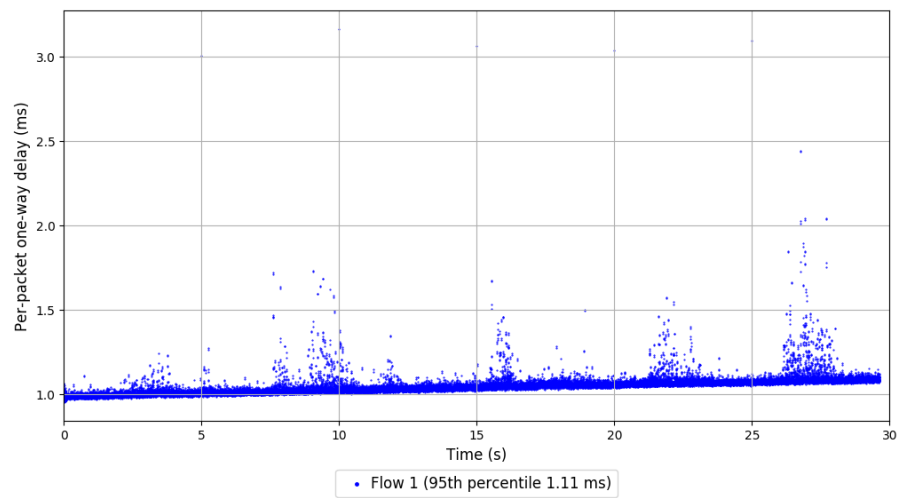
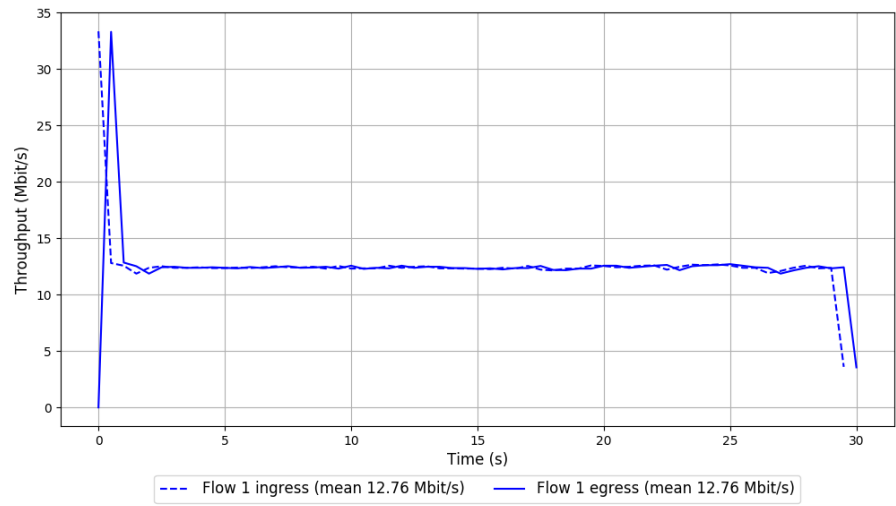
-- Flow 1:

Average throughput: 12.76 Mbit/s

95th percentile per-packet one-way delay: 1.106 ms

Loss rate: 0.01%

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



Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-08-27 07:33:23

End at: 2019-08-27 07:33:53

Local clock offset: 1.214 ms

Remote clock offset: 1.659 ms

# Below is generated by plot.py at 2019-08-27 09:09:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.53 Mbit/s

95th percentile per-packet one-way delay: 0.842 ms

Loss rate: 0.01%

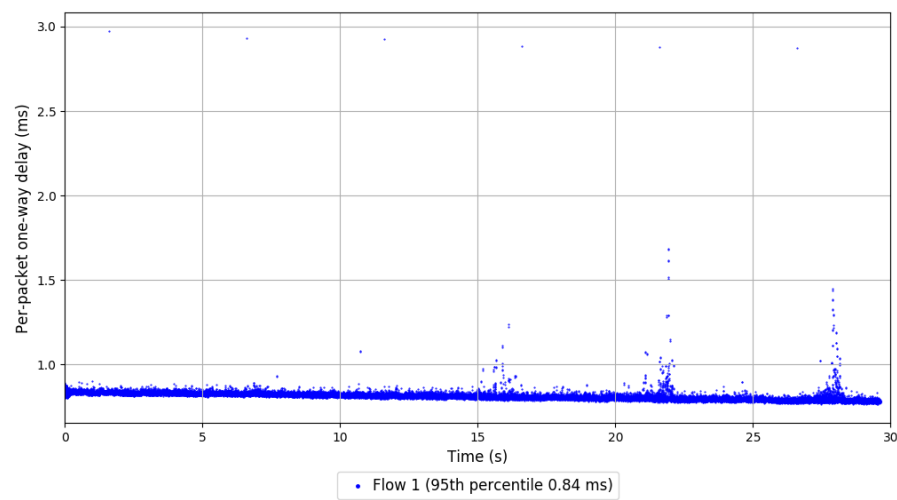
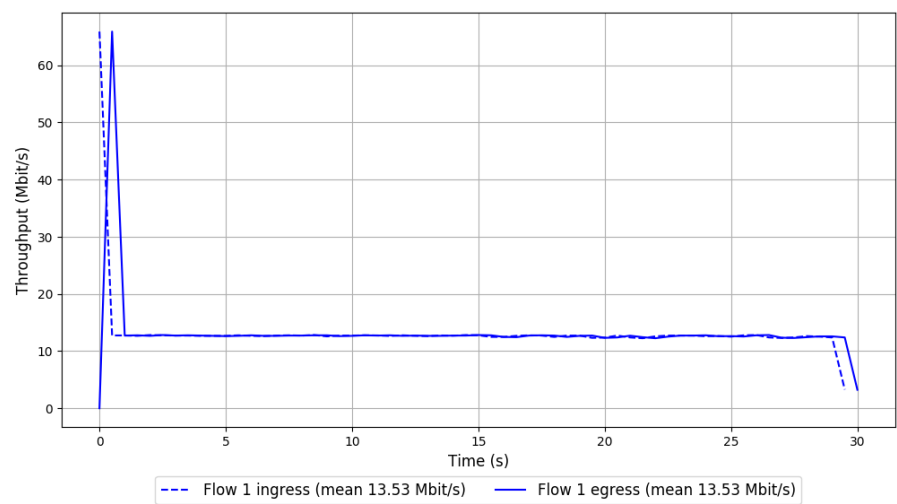
-- Flow 1:

Average throughput: 13.53 Mbit/s

95th percentile per-packet one-way delay: 0.842 ms

Loss rate: 0.01%

Run 4: Report of Muses\_DecisionTree — Data Link



Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-08-27 08:06:34

End at: 2019-08-27 08:07:04

Local clock offset: 1.141 ms

Remote clock offset: 0.56 ms

# Below is generated by plot.py at 2019-08-27 09:09:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.28 Mbit/s

95th percentile per-packet one-way delay: 0.963 ms

Loss rate: 0.00%

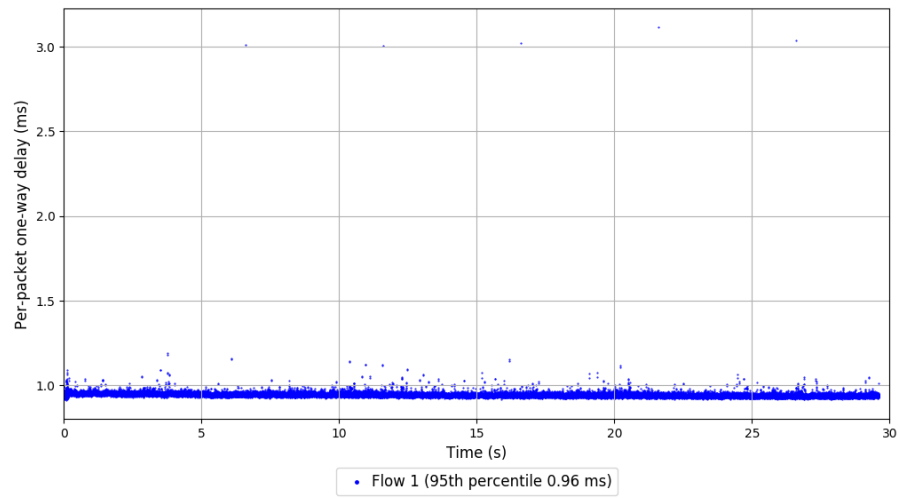
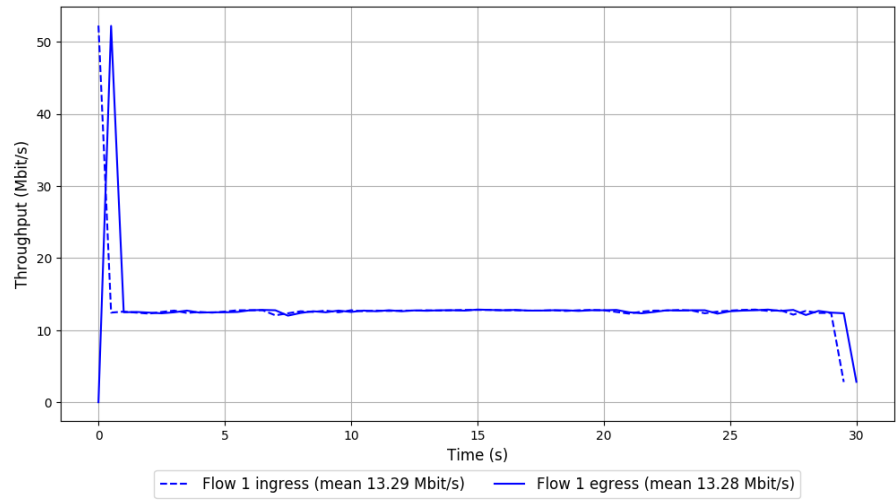
-- Flow 1:

Average throughput: 13.28 Mbit/s

95th percentile per-packet one-way delay: 0.963 ms

Loss rate: 0.00%

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



Run 1: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-08-27 05:36:05  
End at: 2019-08-27 05:36:35  
Local clock offset: 0.153 ms  
Remote clock offset: -2.781 ms

# Below is generated by plot.py at 2019-08-27 09:09:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.23 Mbit/s

95th percentile per-packet one-way delay: 0.950 ms

Loss rate: 0.01%

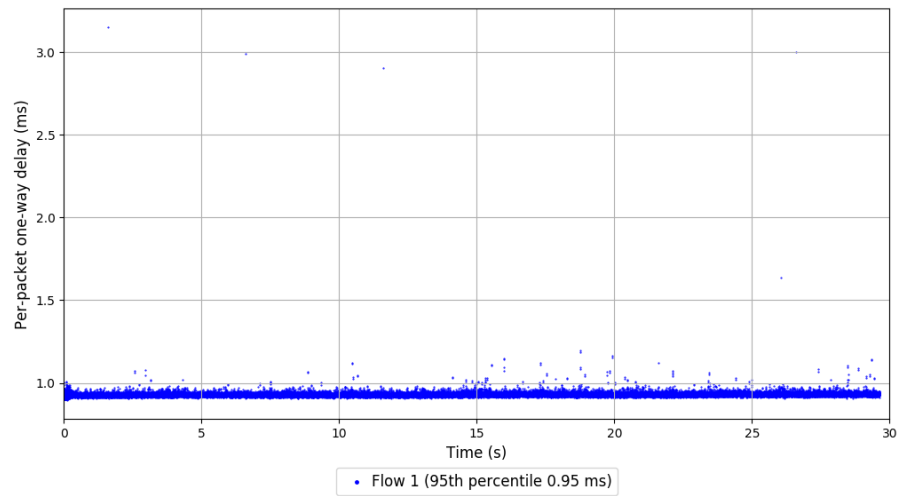
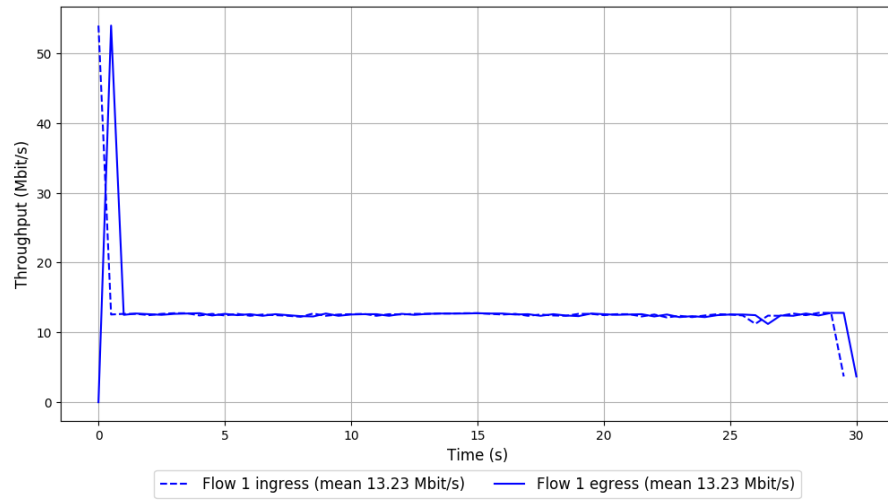
-- Flow 1:

Average throughput: 13.23 Mbit/s

95th percentile per-packet one-way delay: 0.950 ms

Loss rate: 0.01%

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

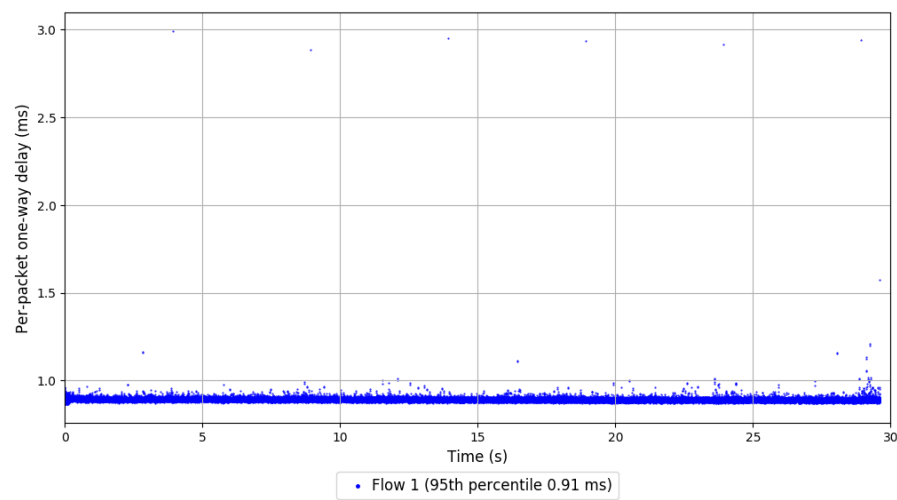
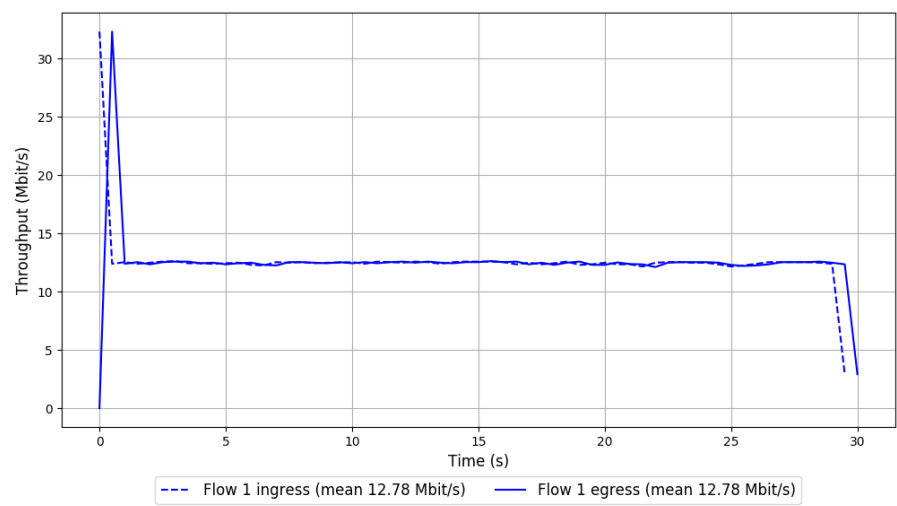


Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-08-27 06:09:21  
End at: 2019-08-27 06:09:51  
Local clock offset: 0.737 ms  
Remote clock offset: -2.695 ms

# Below is generated by plot.py at 2019-08-27 09:09:59  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.78 Mbit/s  
95th percentile per-packet one-way delay: 0.909 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 12.78 Mbit/s  
95th percentile per-packet one-way delay: 0.909 ms  
Loss rate: 0.00%

Run 2: Report of Muses\_DecisionTreeH0 — Data Link

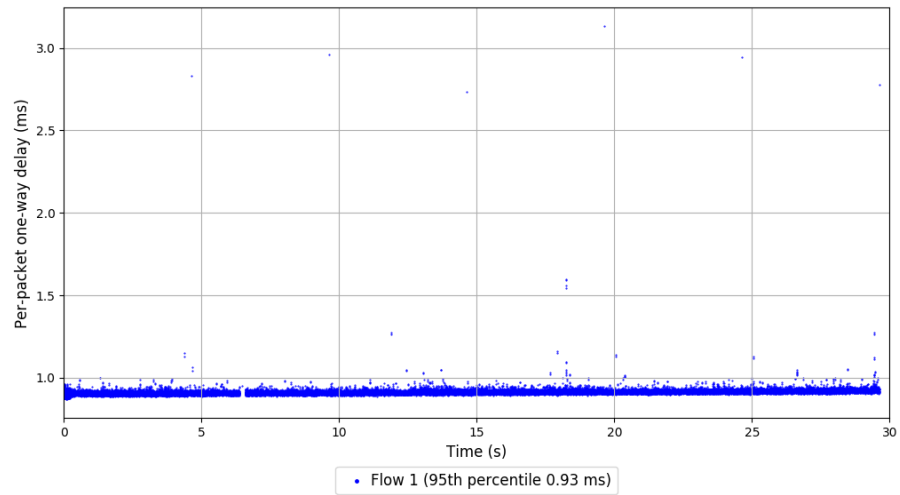
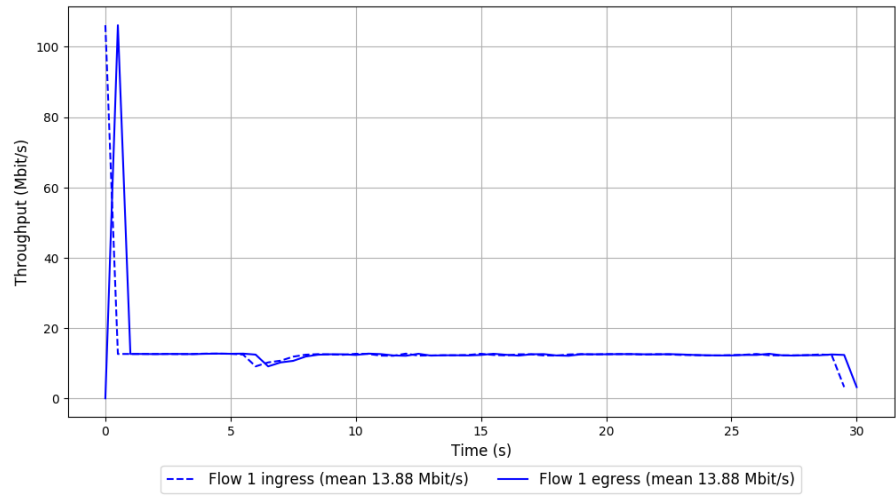


Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-08-27 06:42:45  
End at: 2019-08-27 06:43:15  
Local clock offset: 1.08 ms  
Remote clock offset: -2.158 ms

# Below is generated by plot.py at 2019-08-27 09:09:59  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 13.88 Mbit/s  
95th percentile per-packet one-way delay: 0.930 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 13.88 Mbit/s  
95th percentile per-packet one-way delay: 0.930 ms  
Loss rate: 0.00%

### Run 3: Report of Muses\_DecisionTreeH0 — Data Link



Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-08-27 07:15:35

End at: 2019-08-27 07:16:05

Local clock offset: 1.245 ms

Remote clock offset: 3.031 ms

# Below is generated by plot.py at 2019-08-27 09:09:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.19 Mbit/s

95th percentile per-packet one-way delay: 0.959 ms

Loss rate: 0.01%

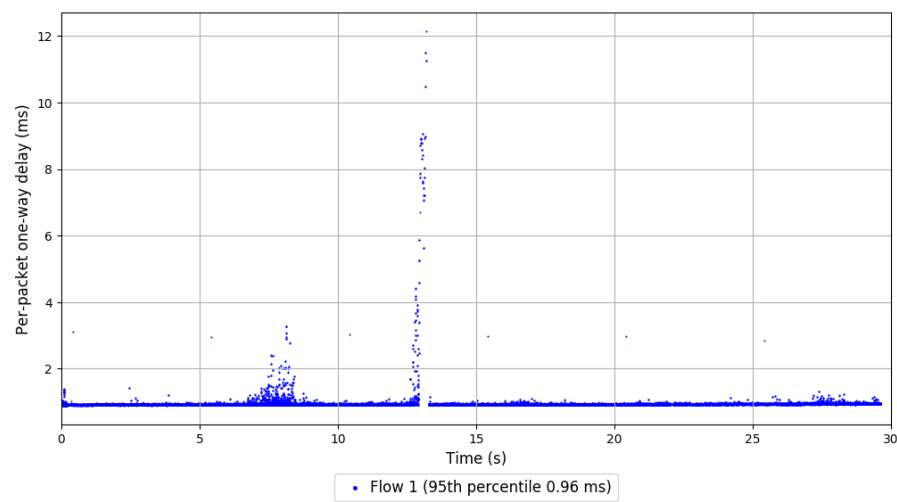
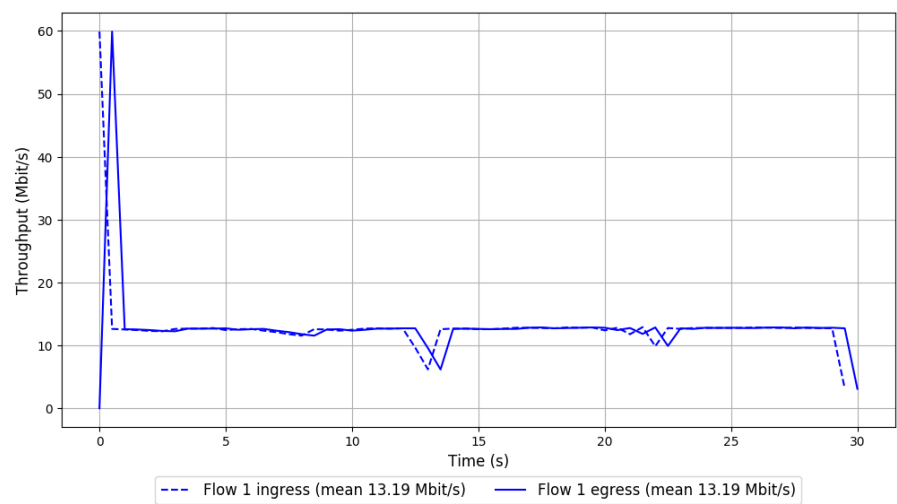
-- Flow 1:

Average throughput: 13.19 Mbit/s

95th percentile per-packet one-way delay: 0.959 ms

Loss rate: 0.01%

Run 4: Report of Muses\_DecisionTreeH0 — Data Link



Run 5: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-08-27 07:48:37

End at: 2019-08-27 07:49:07

Local clock offset: 1.157 ms

Remote clock offset: 0.925 ms

# Below is generated by plot.py at 2019-08-27 09:09:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 14.30 Mbit/s

95th percentile per-packet one-way delay: 0.955 ms

Loss rate: 0.01%

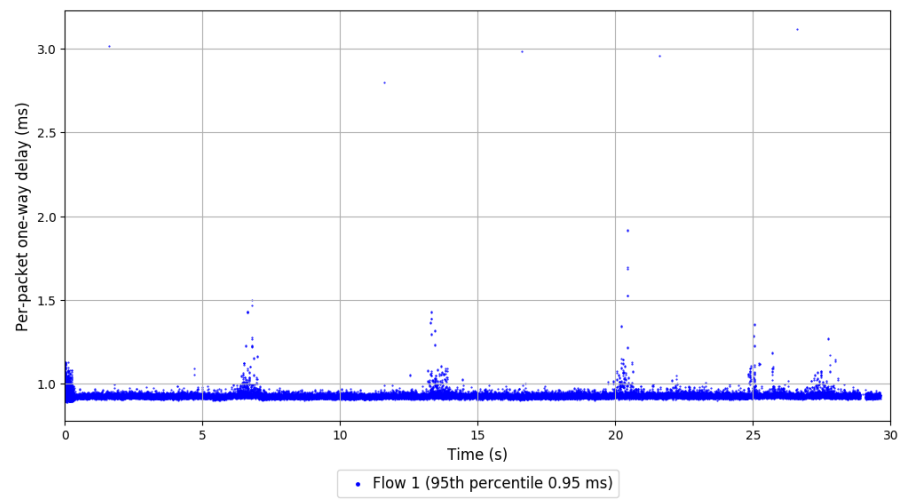
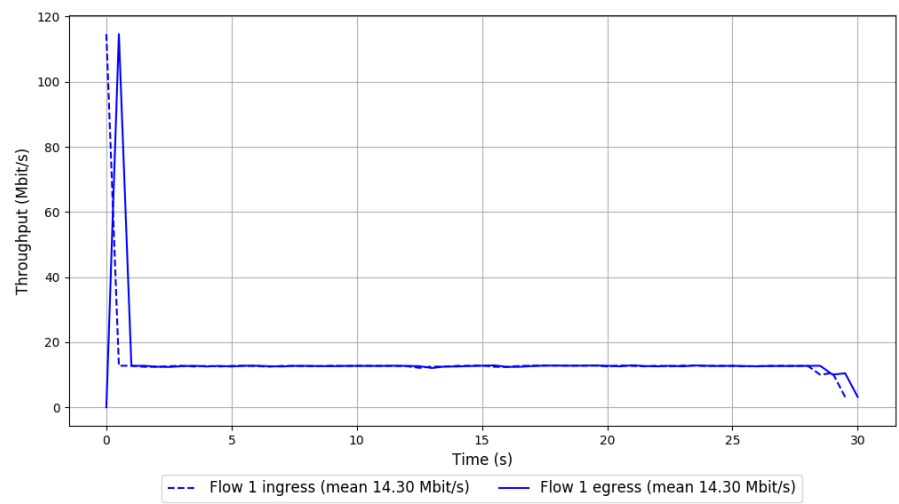
-- Flow 1:

Average throughput: 14.30 Mbit/s

95th percentile per-packet one-way delay: 0.955 ms

Loss rate: 0.01%

Run 5: Report of Muses\_DecisionTreeH0 — Data Link



Run 1: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-08-27 06:05:16

End at: 2019-08-27 06:05:46

Local clock offset: 0.677 ms

Remote clock offset: -2.68 ms

# Below is generated by plot.py at 2019-08-27 09:09:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.72 Mbit/s

95th percentile per-packet one-way delay: 0.861 ms

Loss rate: 0.01%

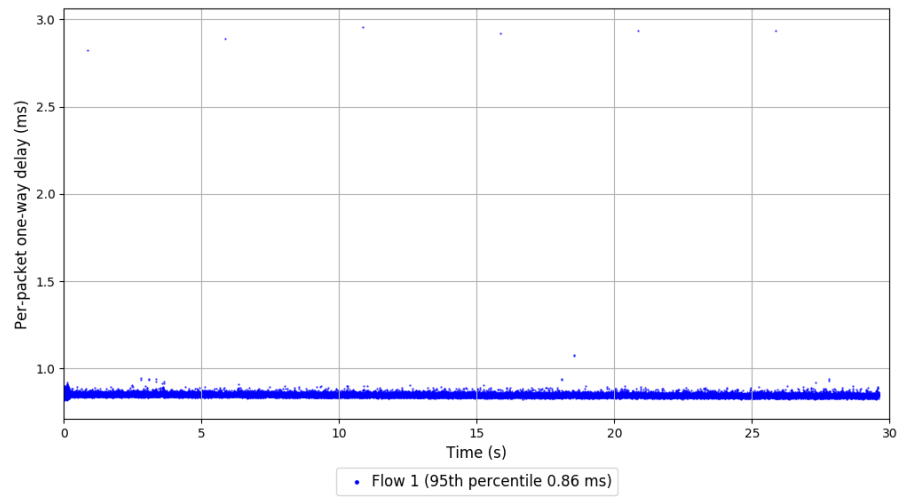
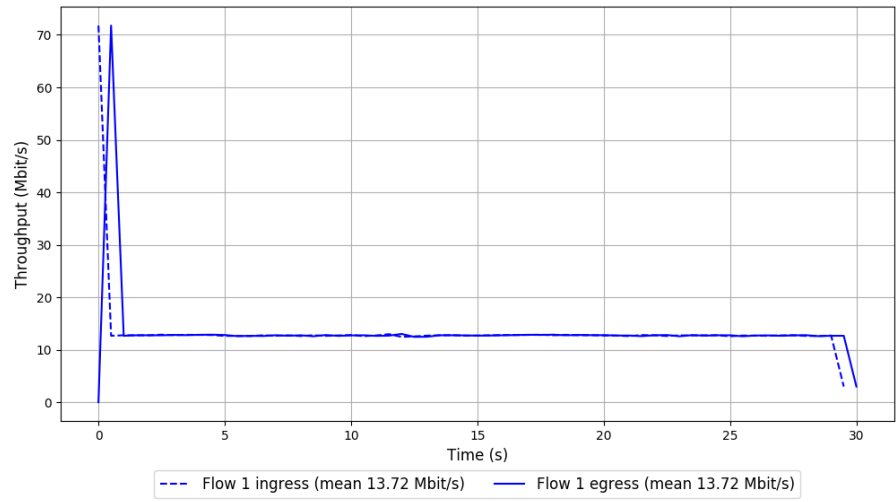
-- Flow 1:

Average throughput: 13.72 Mbit/s

95th percentile per-packet one-way delay: 0.861 ms

Loss rate: 0.01%

# Run 1: Report of Muses\_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-08-27 06:38:37

End at: 2019-08-27 06:39:07

Local clock offset: 0.996 ms

Remote clock offset: -2.34 ms

# Below is generated by plot.py at 2019-08-27 09:09:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.51 Mbit/s

95th percentile per-packet one-way delay: 0.864 ms

Loss rate: 0.00%

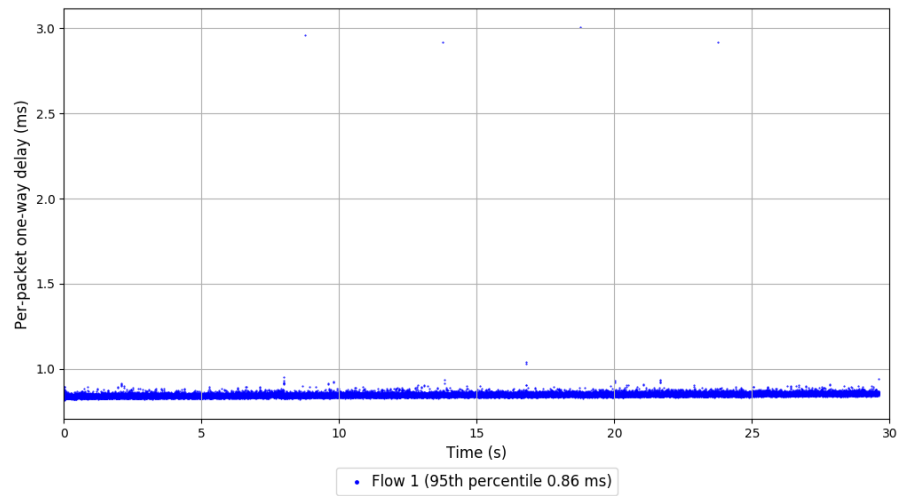
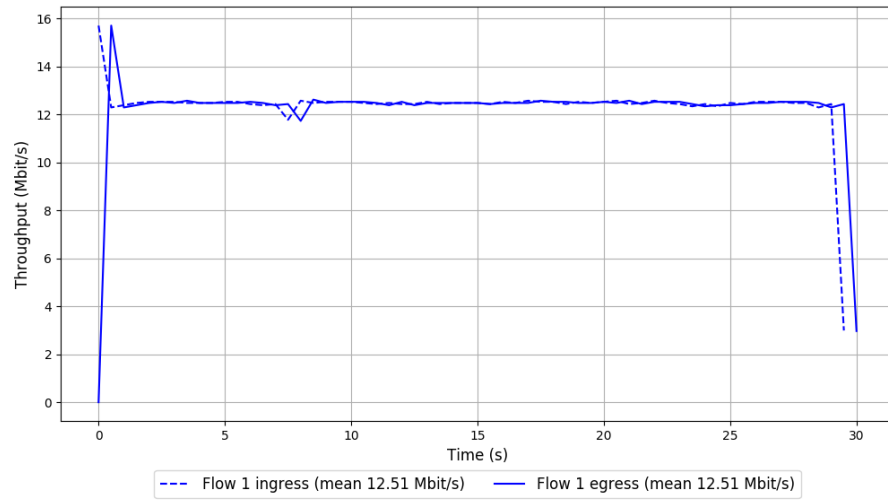
-- Flow 1:

Average throughput: 12.51 Mbit/s

95th percentile per-packet one-way delay: 0.864 ms

Loss rate: 0.00%

## Run 2: Report of Muses\_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-08-27 07:11:28

End at: 2019-08-27 07:11:58

Local clock offset: 1.271 ms

Remote clock offset: 2.758 ms

# Below is generated by plot.py at 2019-08-27 09:09:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.16 Mbit/s

95th percentile per-packet one-way delay: 1.017 ms

Loss rate: 0.00%

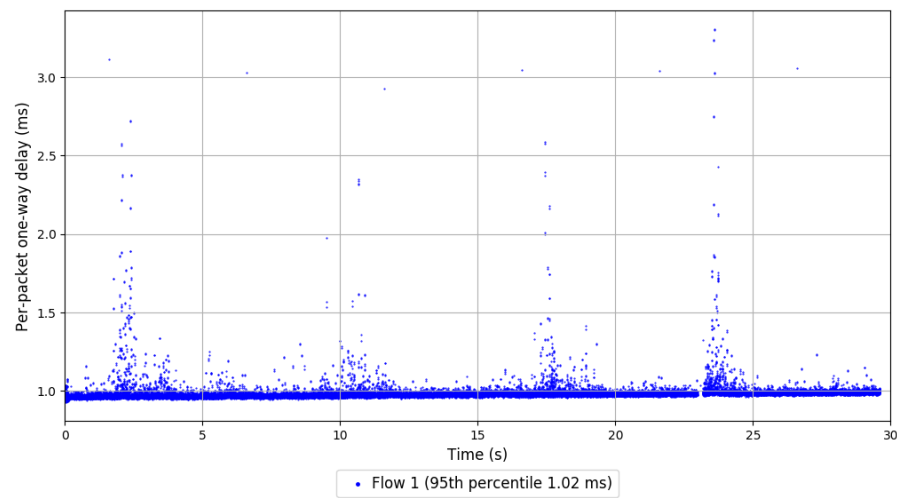
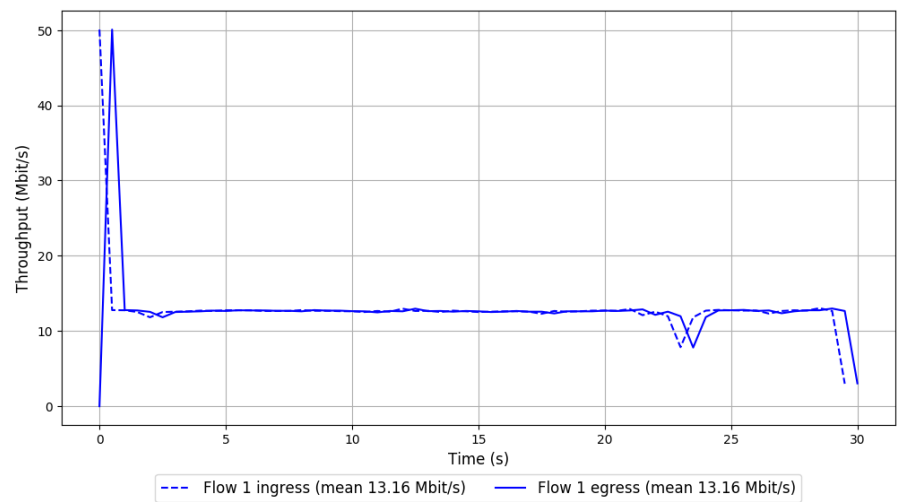
-- Flow 1:

Average throughput: 13.16 Mbit/s

95th percentile per-packet one-way delay: 1.017 ms

Loss rate: 0.00%

Run 3: Report of Muses\_DecisionTreeR0 — Data Link



Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-08-27 07:44:29

End at: 2019-08-27 07:44:59

Local clock offset: 1.17 ms

Remote clock offset: 1.003 ms

# Below is generated by plot.py at 2019-08-27 09:09:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.62 Mbit/s

95th percentile per-packet one-way delay: 0.924 ms

Loss rate: 0.01%

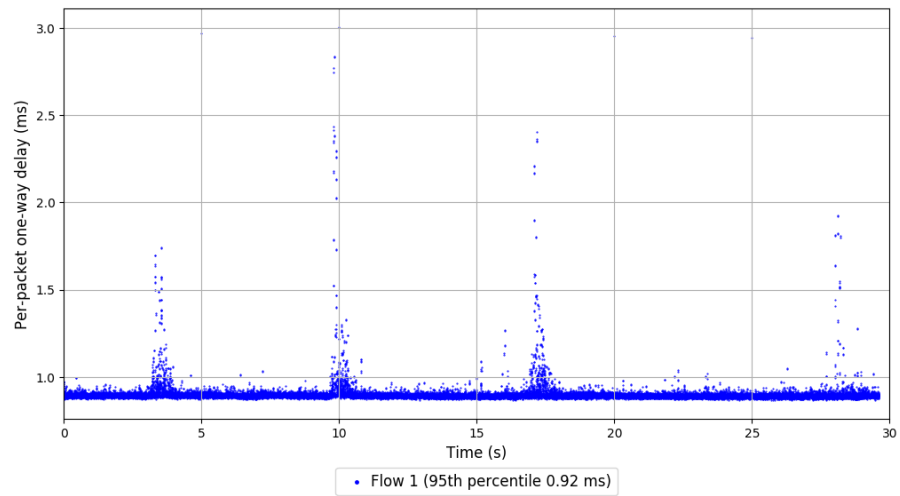
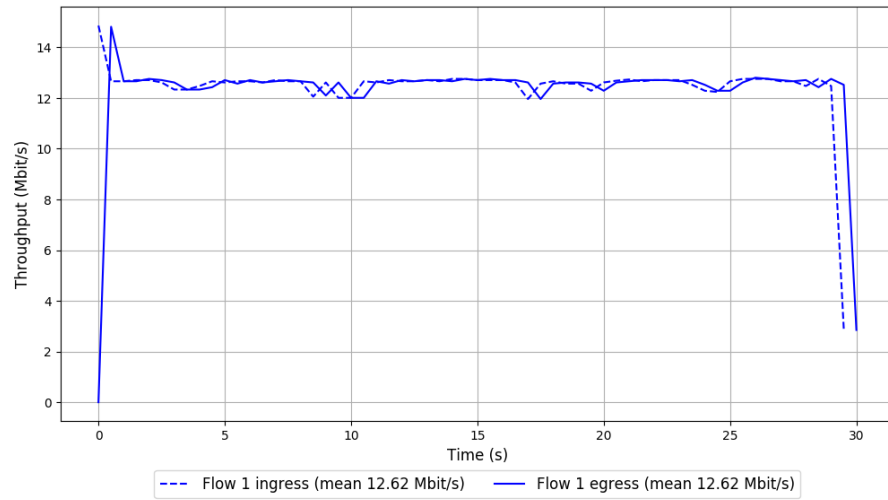
-- Flow 1:

Average throughput: 12.62 Mbit/s

95th percentile per-packet one-way delay: 0.924 ms

Loss rate: 0.01%

#### Run 4: Report of Muses\_DecisionTreeR0 — Data Link



Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-08-27 08:17:39

End at: 2019-08-27 08:18:09

Local clock offset: 1.126 ms

Remote clock offset: 0.438 ms

# Below is generated by plot.py at 2019-08-27 09:09:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.89 Mbit/s

95th percentile per-packet one-way delay: 0.982 ms

Loss rate: 0.01%

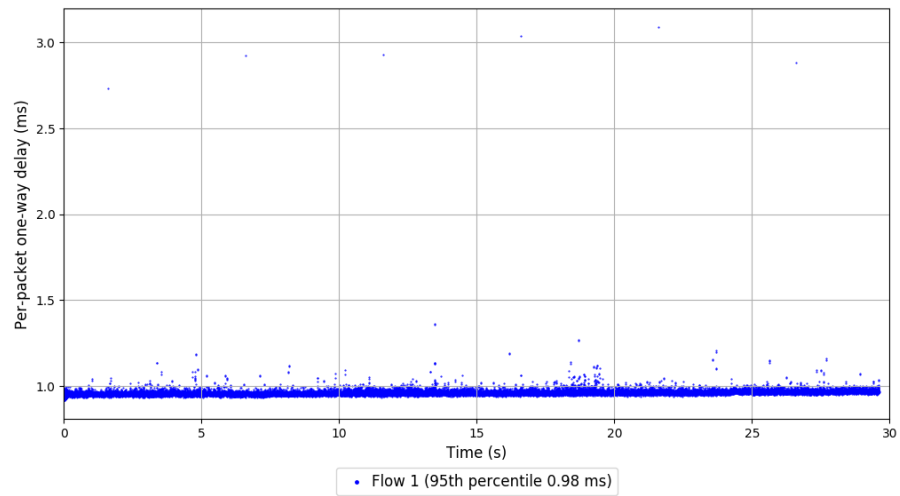
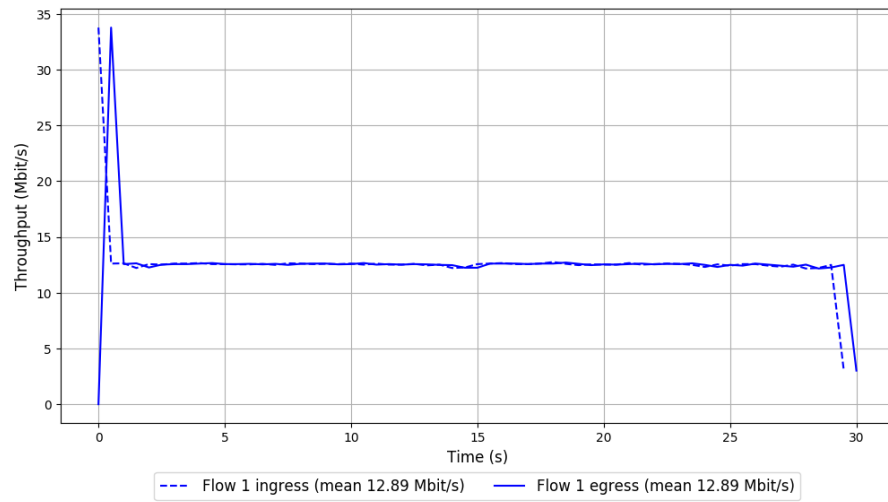
-- Flow 1:

Average throughput: 12.89 Mbit/s

95th percentile per-packet one-way delay: 0.982 ms

Loss rate: 0.01%

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



Run 1: Statistics of PCC-Allegro

Start at: 2019-08-27 05:43:17

End at: 2019-08-27 05:43:47

Local clock offset: 0.279 ms

Remote clock offset: -2.434 ms

# Below is generated by plot.py at 2019-08-27 09:13:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 628.75 Mbit/s

95th percentile per-packet one-way delay: 0.949 ms

Loss rate: 0.00%

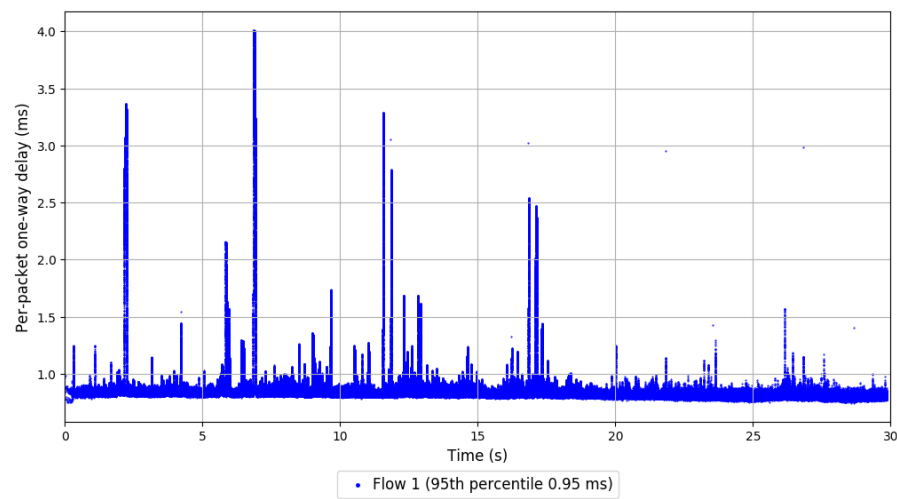
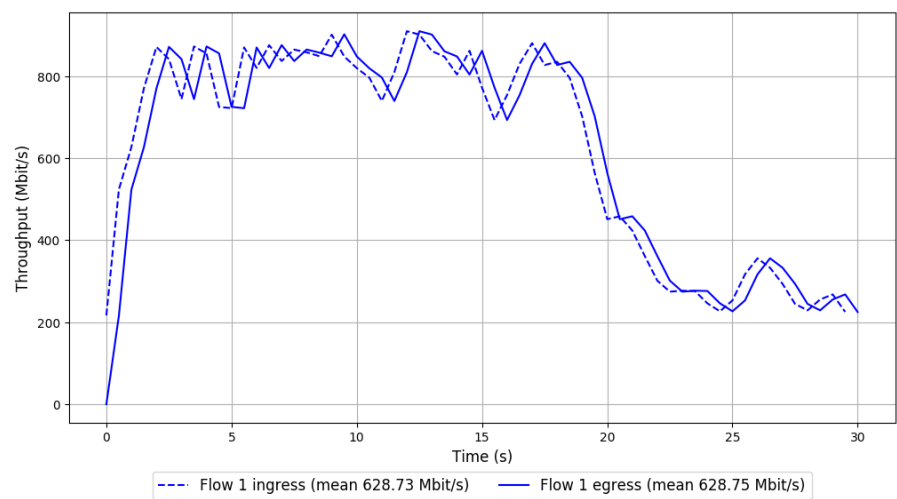
-- Flow 1:

Average throughput: 628.75 Mbit/s

95th percentile per-packet one-way delay: 0.949 ms

Loss rate: 0.00%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-08-27 06:16:35

End at: 2019-08-27 06:17:05

Local clock offset: 0.834 ms

Remote clock offset: -2.489 ms

# Below is generated by plot.py at 2019-08-27 09:16:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 779.87 Mbit/s

95th percentile per-packet one-way delay: 2.013 ms

Loss rate: 0.02%

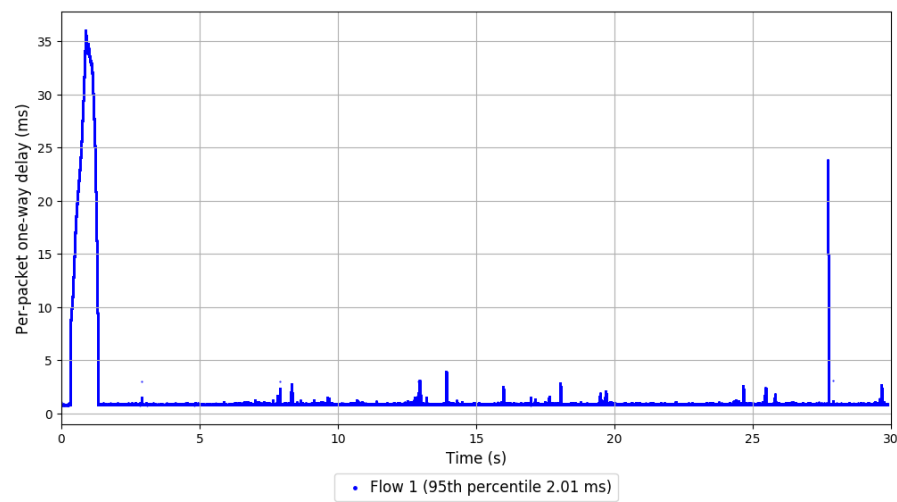
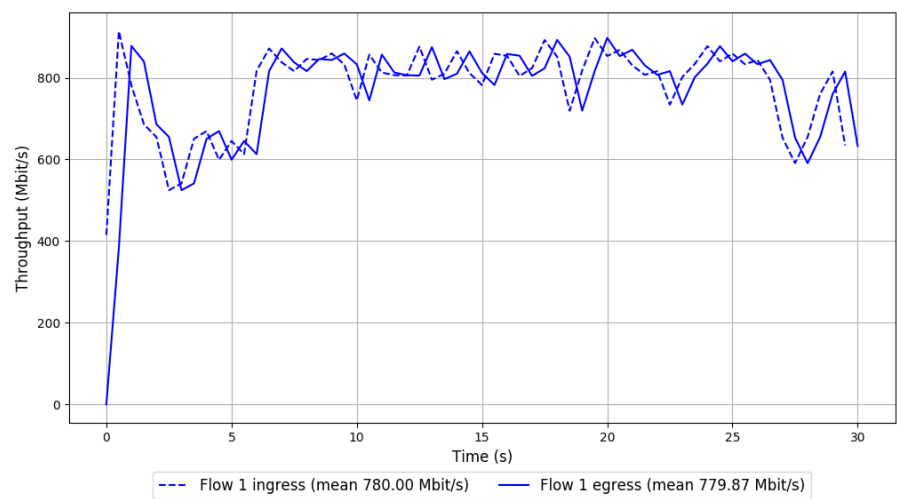
-- Flow 1:

Average throughput: 779.87 Mbit/s

95th percentile per-packet one-way delay: 2.013 ms

Loss rate: 0.02%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-08-27 06:49:37

End at: 2019-08-27 06:50:07

Local clock offset: 1.11 ms

Remote clock offset: -1.929 ms

# Below is generated by plot.py at 2019-08-27 09:16:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 615.07 Mbit/s

95th percentile per-packet one-way delay: 1.029 ms

Loss rate: 0.00%

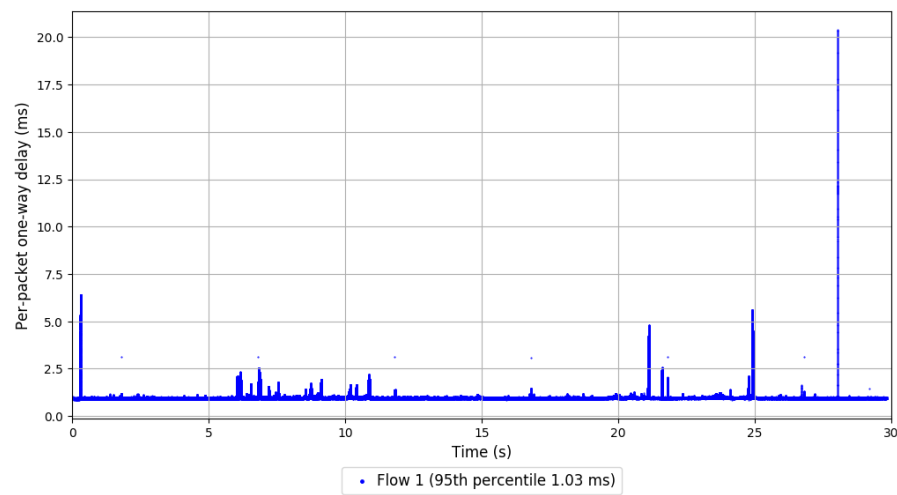
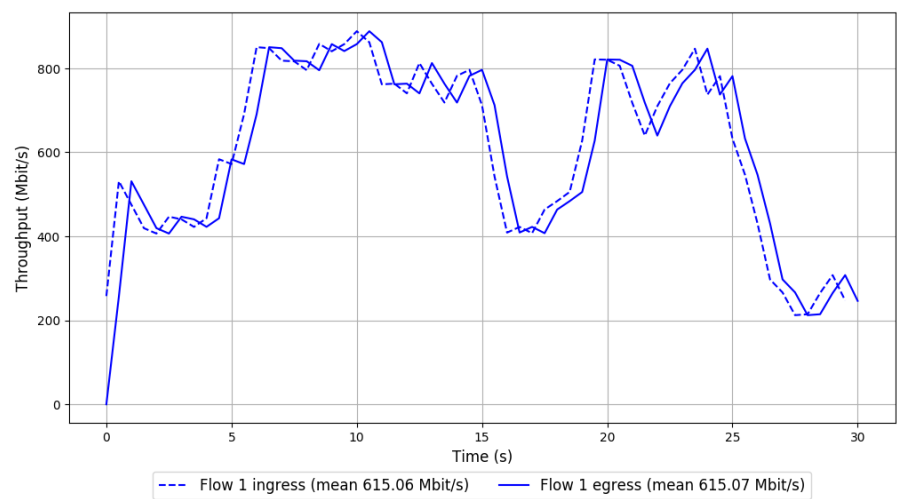
-- Flow 1:

Average throughput: 615.07 Mbit/s

95th percentile per-packet one-way delay: 1.029 ms

Loss rate: 0.00%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-08-27 07:22:28

End at: 2019-08-27 07:22:58

Local clock offset: 1.233 ms

Remote clock offset: 3.321 ms

# Below is generated by plot.py at 2019-08-27 09:18:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 773.07 Mbit/s

95th percentile per-packet one-way delay: 12.987 ms

Loss rate: 0.05%

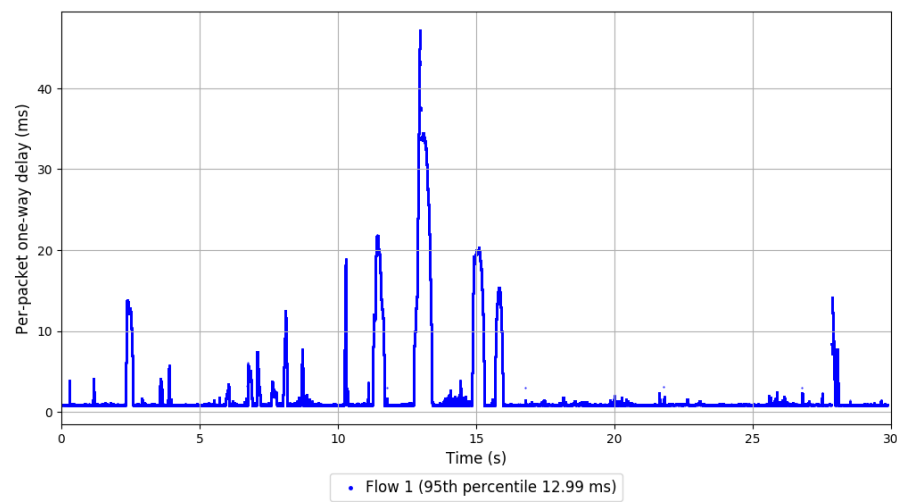
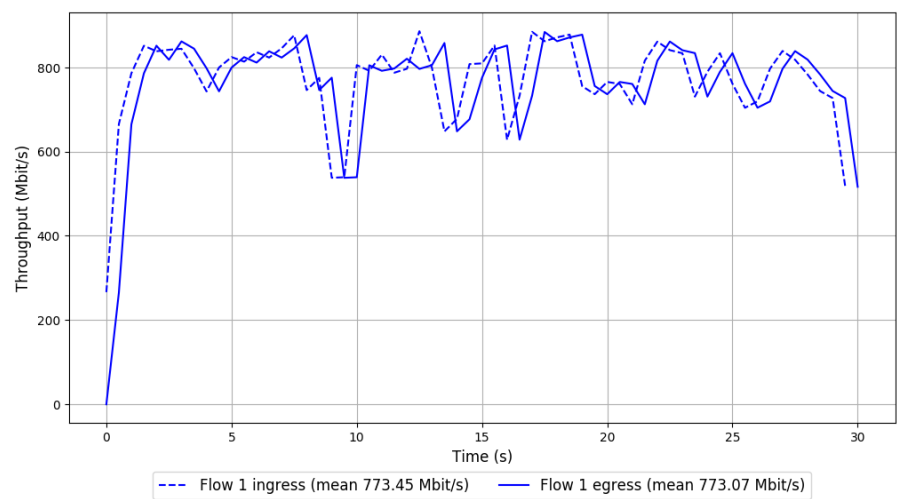
-- Flow 1:

Average throughput: 773.07 Mbit/s

95th percentile per-packet one-way delay: 12.987 ms

Loss rate: 0.05%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-08-27 07:55:37

End at: 2019-08-27 07:56:07

Local clock offset: 1.118 ms

Remote clock offset: 1.031 ms

# Below is generated by plot.py at 2019-08-27 09:18:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 631.54 Mbit/s

95th percentile per-packet one-way delay: 1.383 ms

Loss rate: 0.04%

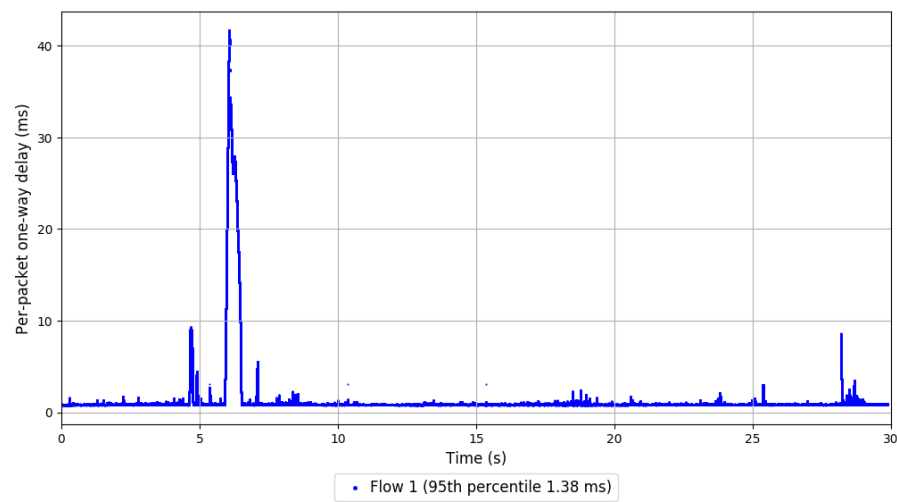
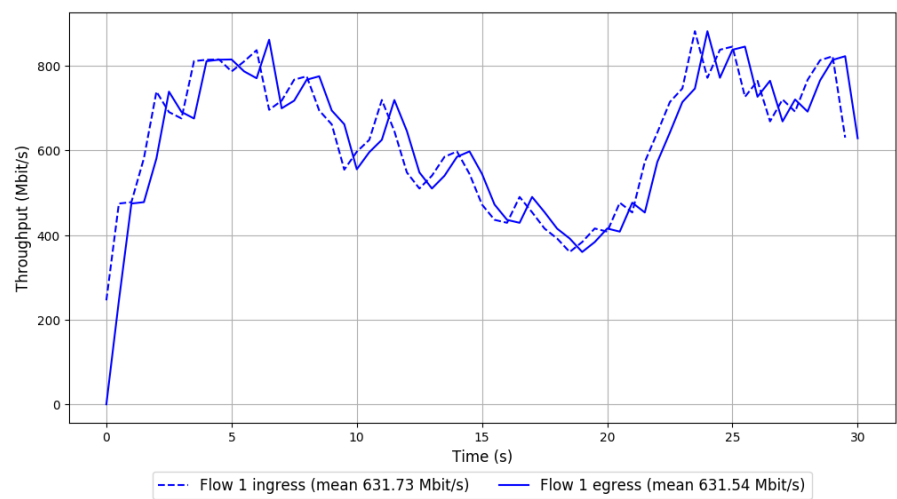
-- Flow 1:

Average throughput: 631.54 Mbit/s

95th percentile per-packet one-way delay: 1.383 ms

Loss rate: 0.04%

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2019-08-27 05:41:45  
End at: 2019-08-27 05:42:15  
Local clock offset: 0.259 ms  
Remote clock offset: -2.477 ms

# Below is generated by plot.py at 2019-08-27 09:18:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 313.05 Mbit/s

95th percentile per-packet one-way delay: 1.023 ms

Loss rate: 0.01%

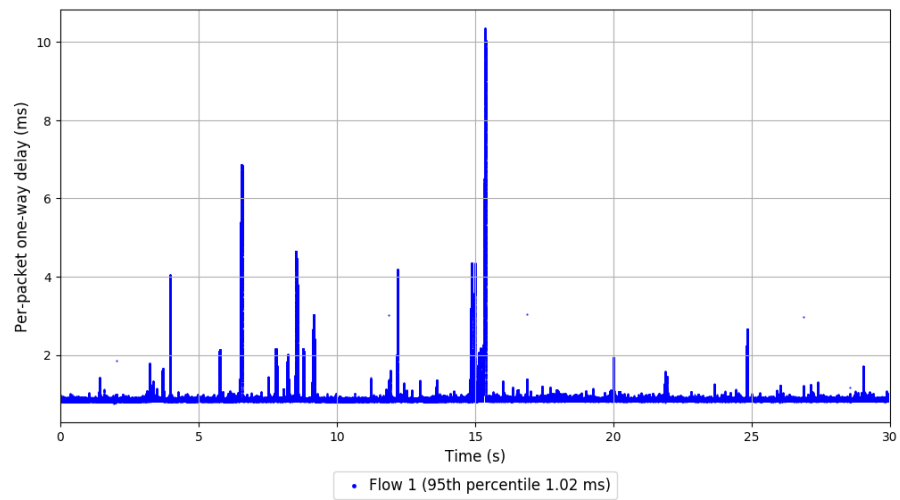
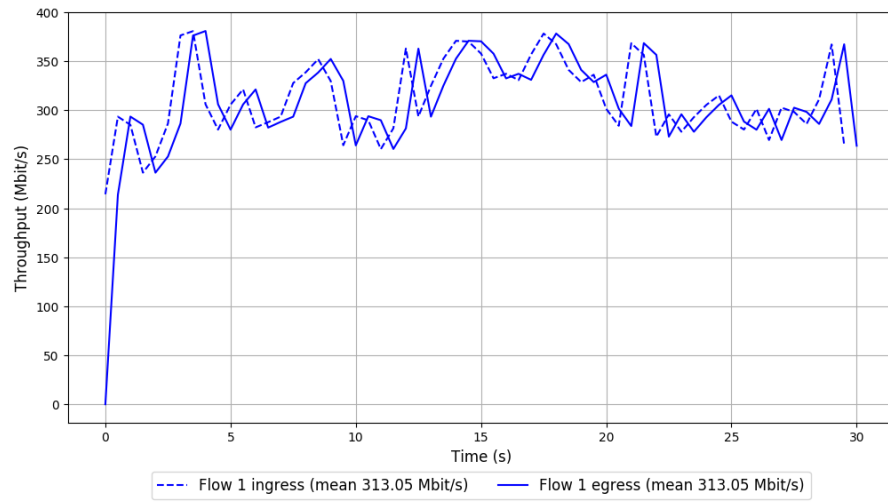
-- Flow 1:

Average throughput: 313.05 Mbit/s

95th percentile per-packet one-way delay: 1.023 ms

Loss rate: 0.01%

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



Run 2: Statistics of PCC-Expr

Start at: 2019-08-27 06:15:03

End at: 2019-08-27 06:15:33

Local clock offset: 0.825 ms

Remote clock offset: -2.576 ms

# Below is generated by plot.py at 2019-08-27 09:18:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 307.27 Mbit/s

95th percentile per-packet one-way delay: 0.989 ms

Loss rate: 0.00%

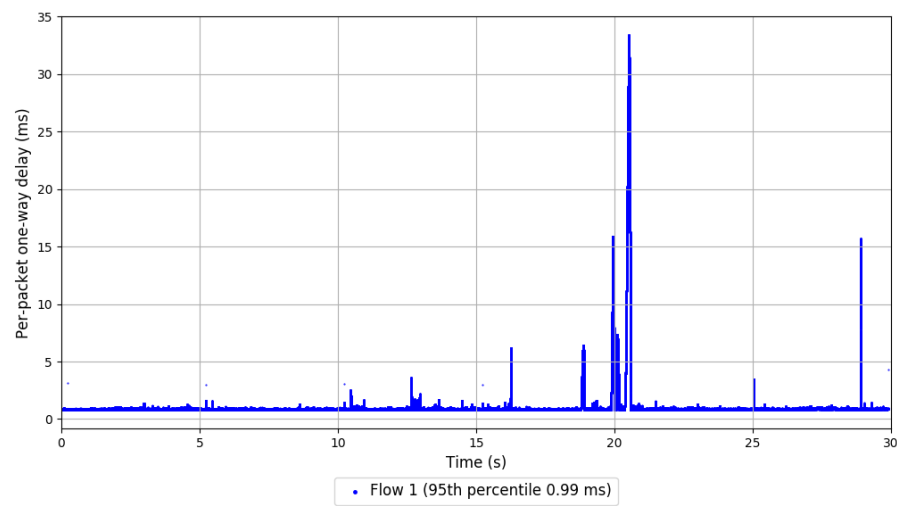
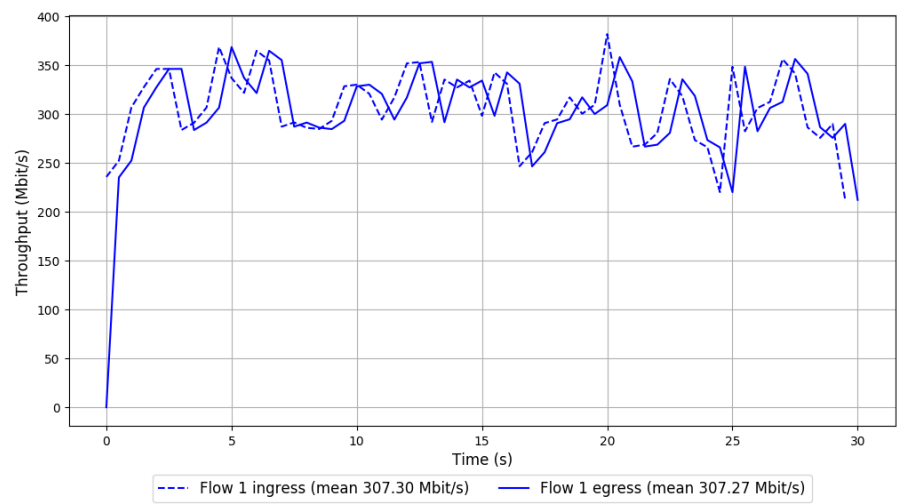
-- Flow 1:

Average throughput: 307.27 Mbit/s

95th percentile per-packet one-way delay: 0.989 ms

Loss rate: 0.00%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-08-27 06:48:23

End at: 2019-08-27 06:48:53

Local clock offset: 1.103 ms

Remote clock offset: -1.963 ms

# Below is generated by plot.py at 2019-08-27 09:18:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.59 Mbit/s

95th percentile per-packet one-way delay: 0.965 ms

Loss rate: 0.01%

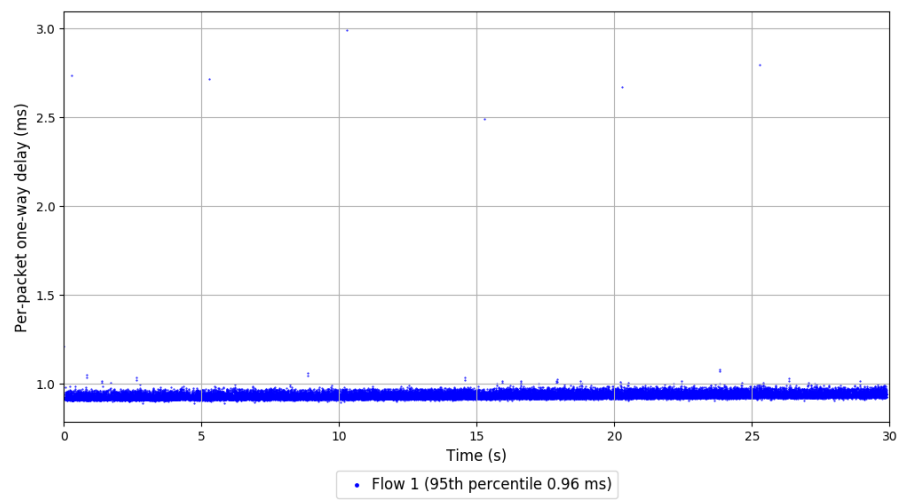
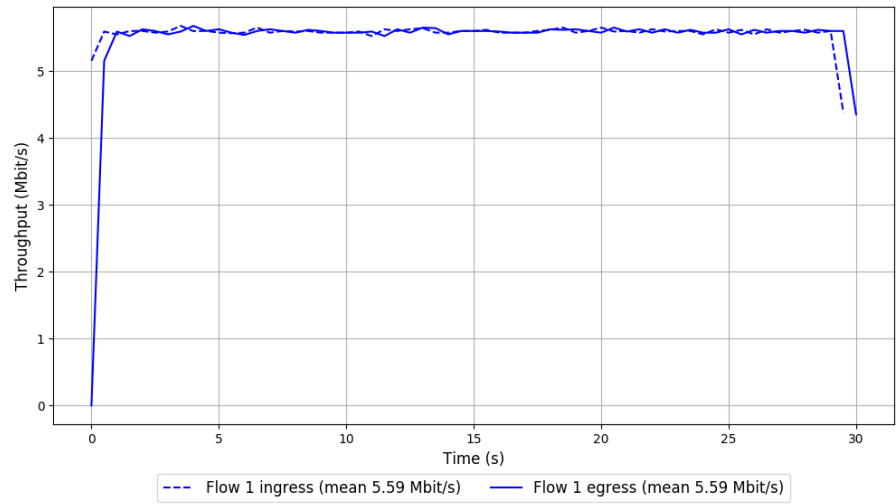
-- Flow 1:

Average throughput: 5.59 Mbit/s

95th percentile per-packet one-way delay: 0.965 ms

Loss rate: 0.01%

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



Run 4: Statistics of PCC-Expr

Start at: 2019-08-27 07:21:14

End at: 2019-08-27 07:21:44

Local clock offset: 1.237 ms

Remote clock offset: 3.247 ms

# Below is generated by plot.py at 2019-08-27 09:18:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.62 Mbit/s

95th percentile per-packet one-way delay: 1.039 ms

Loss rate: 0.01%

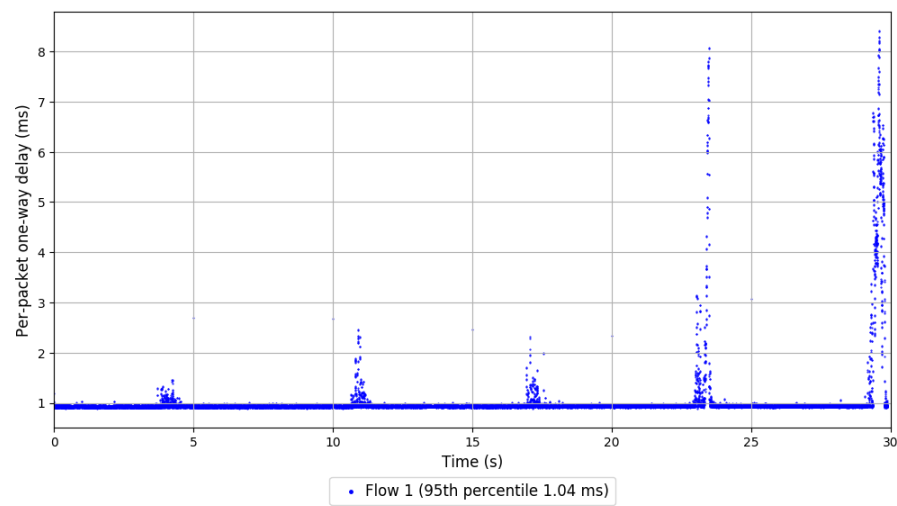
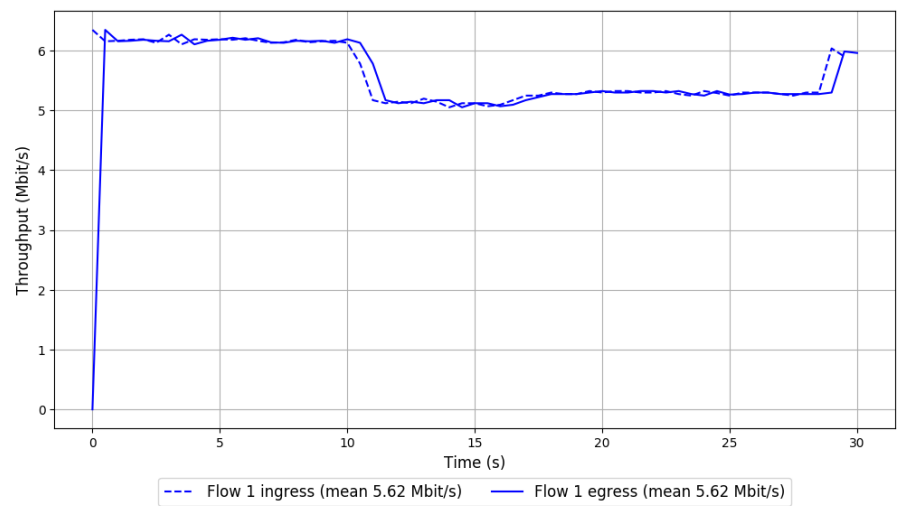
-- Flow 1:

Average throughput: 5.62 Mbit/s

95th percentile per-packet one-way delay: 1.039 ms

Loss rate: 0.01%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-08-27 07:54:17

End at: 2019-08-27 07:54:47

Local clock offset: 1.141 ms

Remote clock offset: 0.976 ms

# Below is generated by plot.py at 2019-08-27 09:18:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 240.61 Mbit/s

95th percentile per-packet one-way delay: 1.151 ms

Loss rate: 0.00%

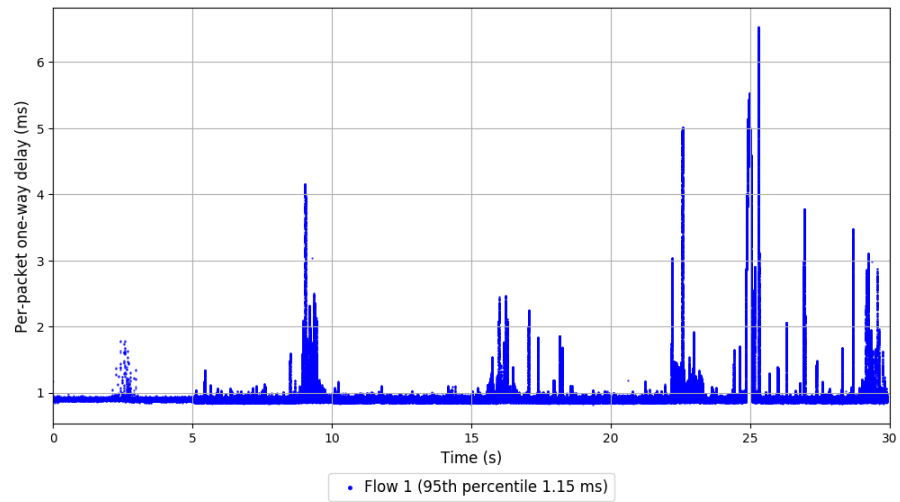
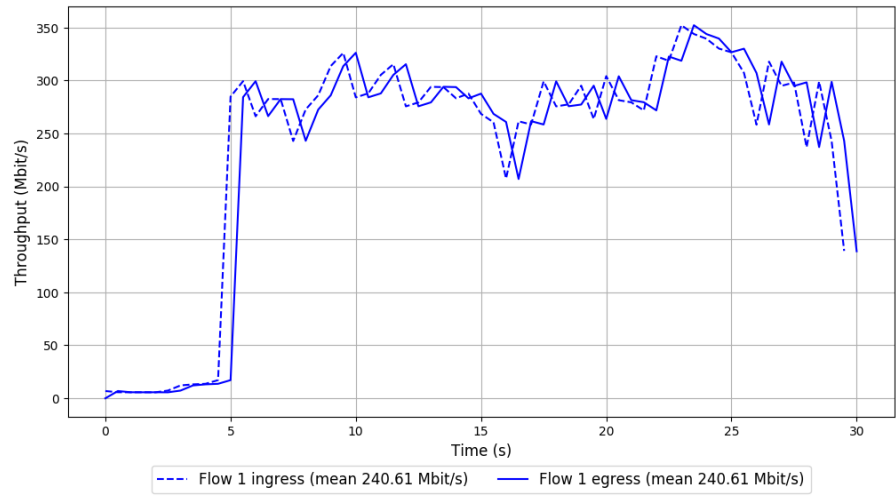
-- Flow 1:

Average throughput: 240.61 Mbit/s

95th percentile per-packet one-way delay: 1.151 ms

Loss rate: 0.00%

## Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-08-27 05:59:41

End at: 2019-08-27 06:00:11

Local clock offset: 0.588 ms

Remote clock offset: -2.631 ms

# Below is generated by plot.py at 2019-08-27 09:18:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.66 Mbit/s

95th percentile per-packet one-way delay: 0.841 ms

Loss rate: 0.01%

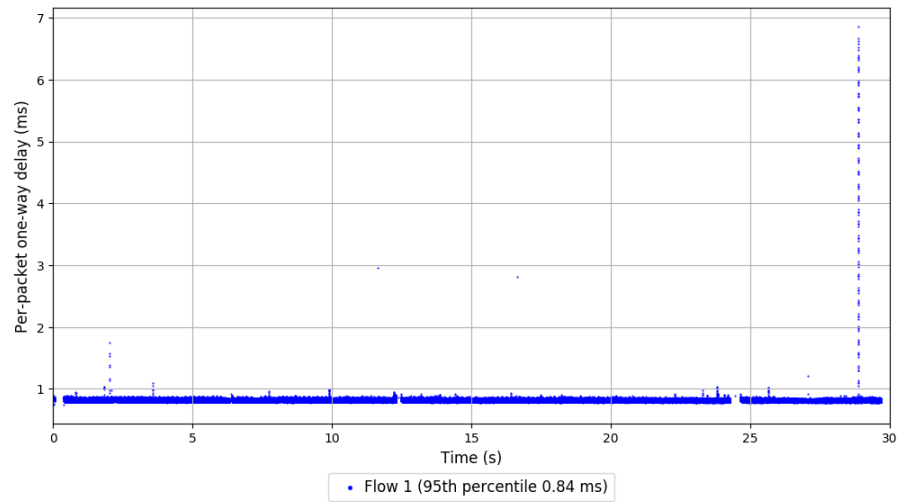
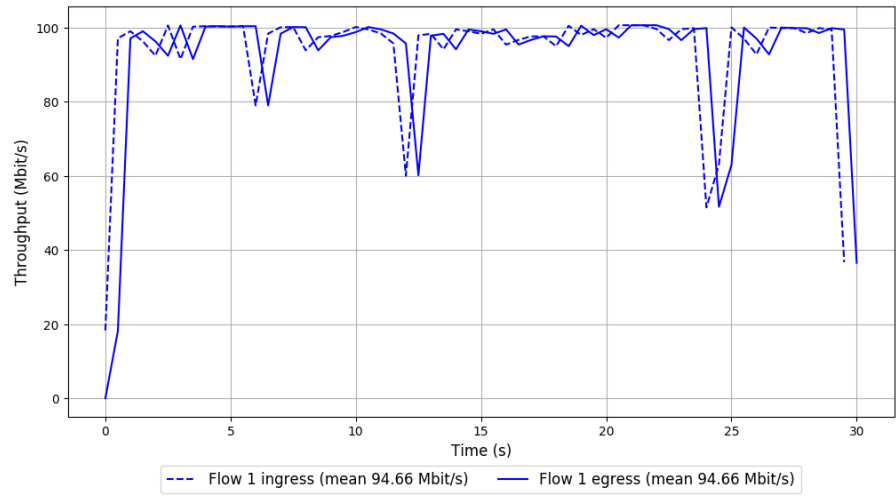
-- Flow 1:

Average throughput: 94.66 Mbit/s

95th percentile per-packet one-way delay: 0.841 ms

Loss rate: 0.01%

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



Run 2: Statistics of QUIC Cubic

Start at: 2019-08-27 06:32:59

End at: 2019-08-27 06:33:29

Local clock offset: 0.973 ms

Remote clock offset: -2.666 ms

# Below is generated by plot.py at 2019-08-27 09:18:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.10 Mbit/s

95th percentile per-packet one-way delay: 0.943 ms

Loss rate: 0.01%

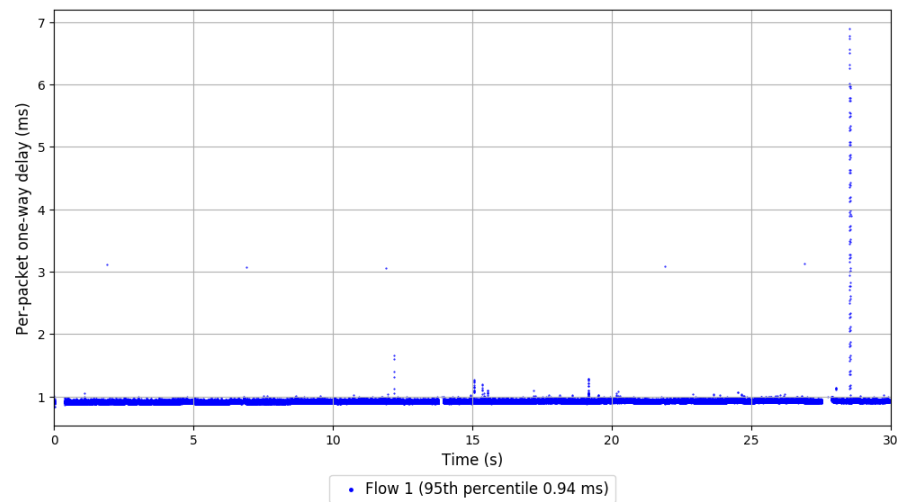
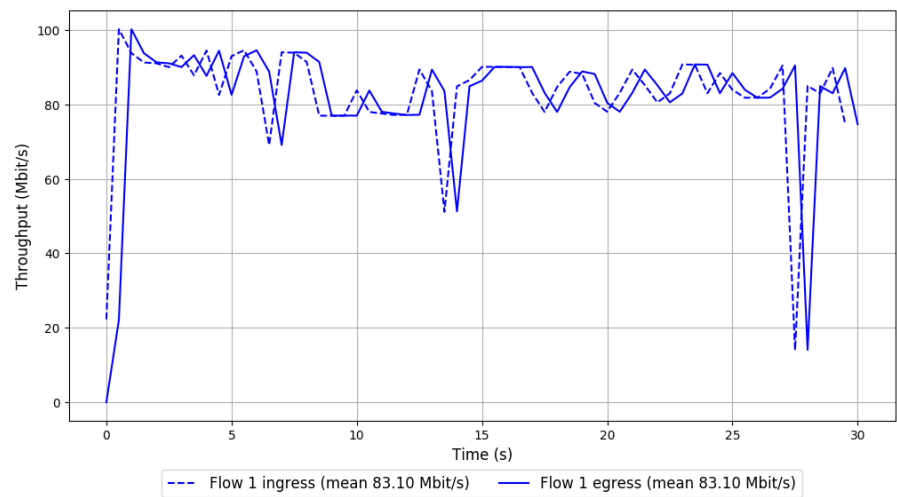
-- Flow 1:

Average throughput: 83.10 Mbit/s

95th percentile per-packet one-way delay: 0.943 ms

Loss rate: 0.01%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-08-27 07:05:52

End at: 2019-08-27 07:06:22

Local clock offset: 1.31 ms

Remote clock offset: 2.387 ms

# Below is generated by plot.py at 2019-08-27 09:18:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.61 Mbit/s

95th percentile per-packet one-way delay: 1.091 ms

Loss rate: 0.00%

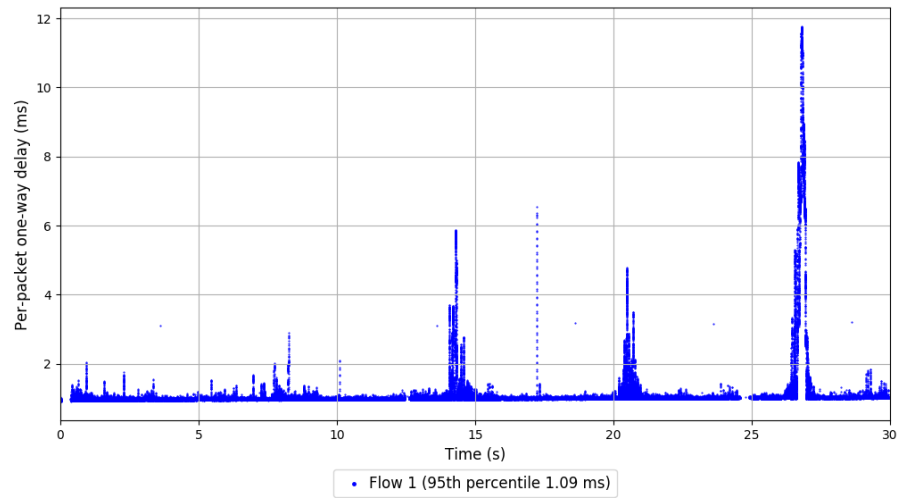
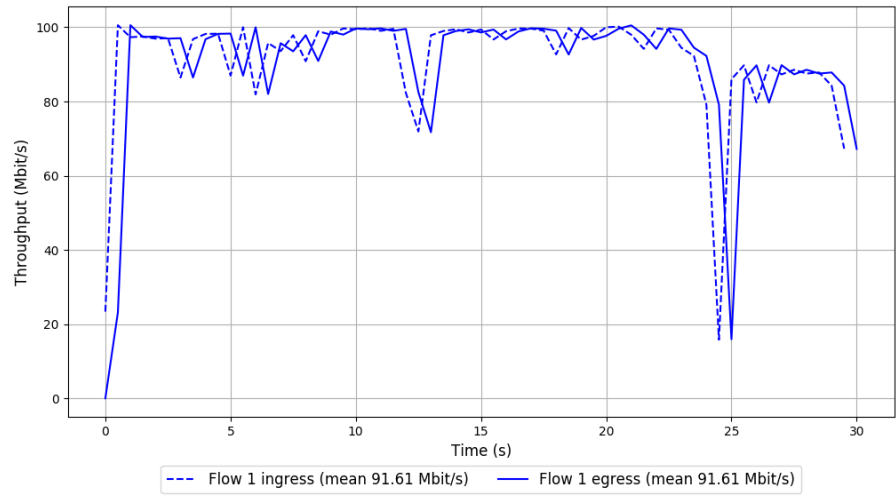
-- Flow 1:

Average throughput: 91.61 Mbit/s

95th percentile per-packet one-way delay: 1.091 ms

Loss rate: 0.00%

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



Run 4: Statistics of QUIC Cubic

Start at: 2019-08-27 07:38:51

End at: 2019-08-27 07:39:21

Local clock offset: 1.154 ms

Remote clock offset: 1.096 ms

# Below is generated by plot.py at 2019-08-27 09:18:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.45 Mbit/s

95th percentile per-packet one-way delay: 0.925 ms

Loss rate: 0.01%

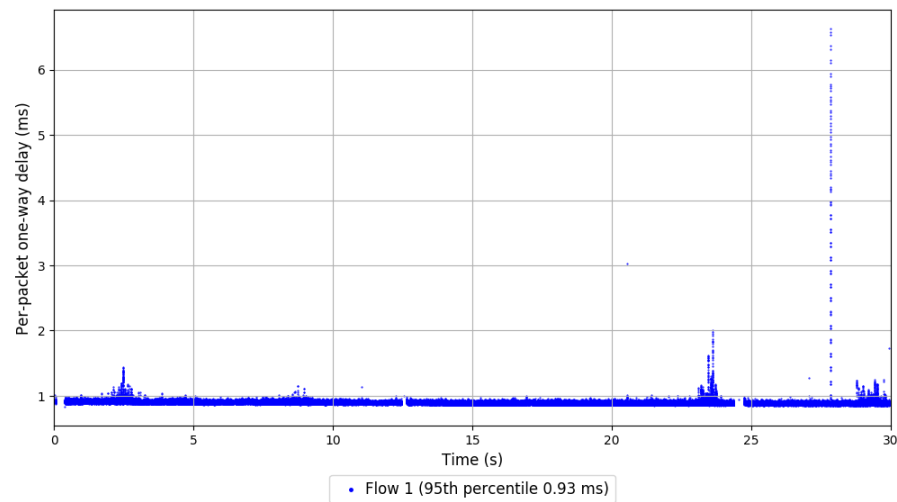
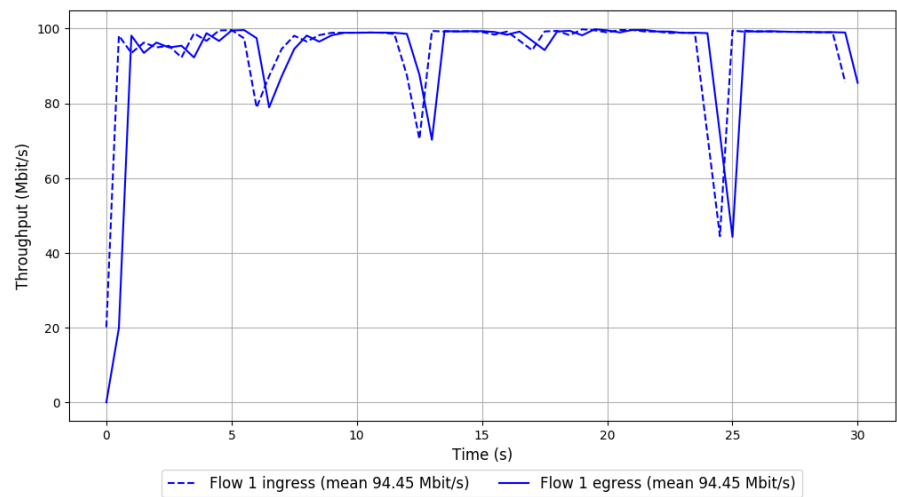
-- Flow 1:

Average throughput: 94.45 Mbit/s

95th percentile per-packet one-way delay: 0.925 ms

Loss rate: 0.01%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-08-27 08:12:02

End at: 2019-08-27 08:12:32

Local clock offset: 1.144 ms

Remote clock offset: 0.474 ms

# Below is generated by plot.py at 2019-08-27 09:18:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.18 Mbit/s

95th percentile per-packet one-way delay: 0.936 ms

Loss rate: 0.01%

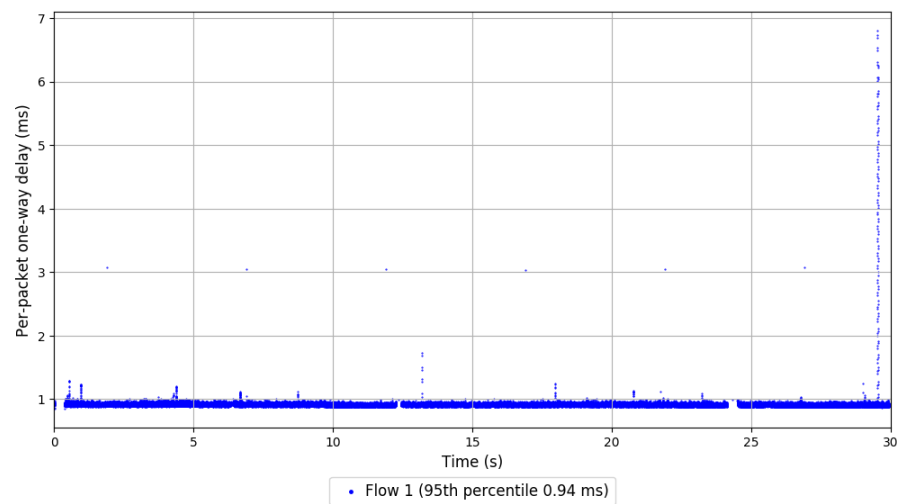
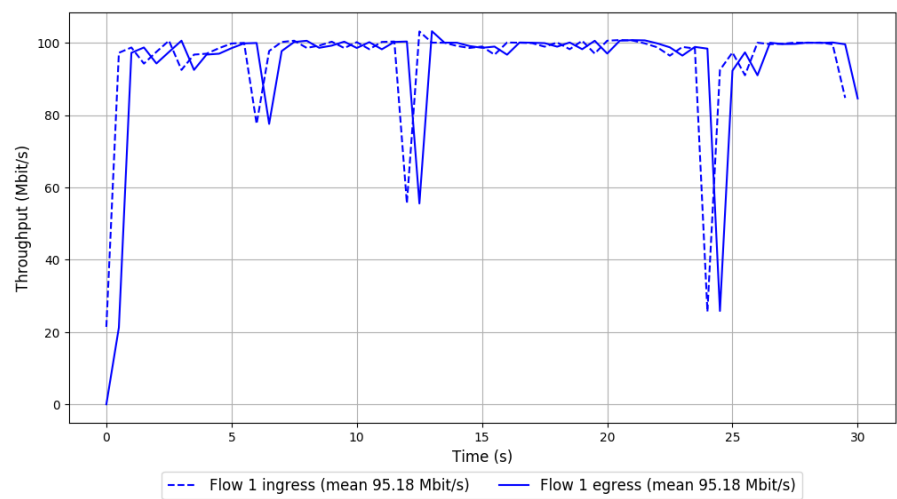
-- Flow 1:

Average throughput: 95.18 Mbit/s

95th percentile per-packet one-way delay: 0.936 ms

Loss rate: 0.01%

Run 5: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2019-08-27 06:00:58

End at: 2019-08-27 06:01:28

Local clock offset: 0.622 ms

Remote clock offset: -2.703 ms

# Below is generated by plot.py at 2019-08-27 09:18:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.038 ms

Loss rate: 0.00%

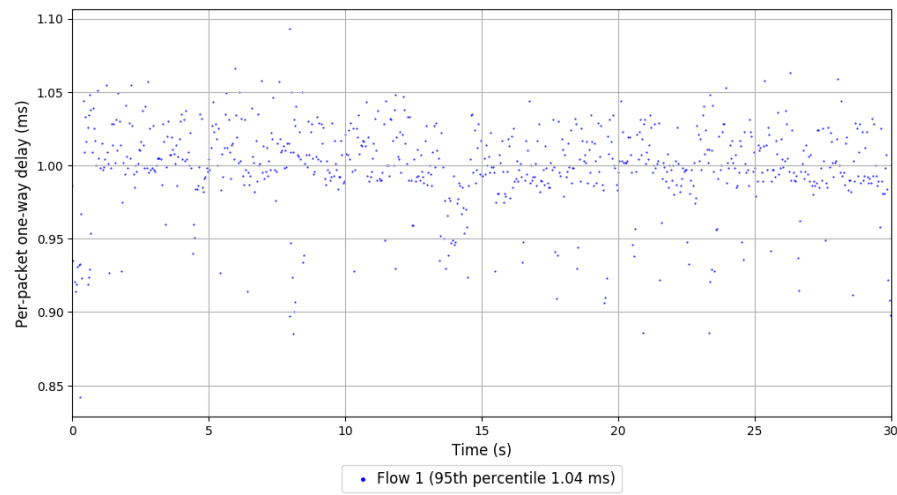
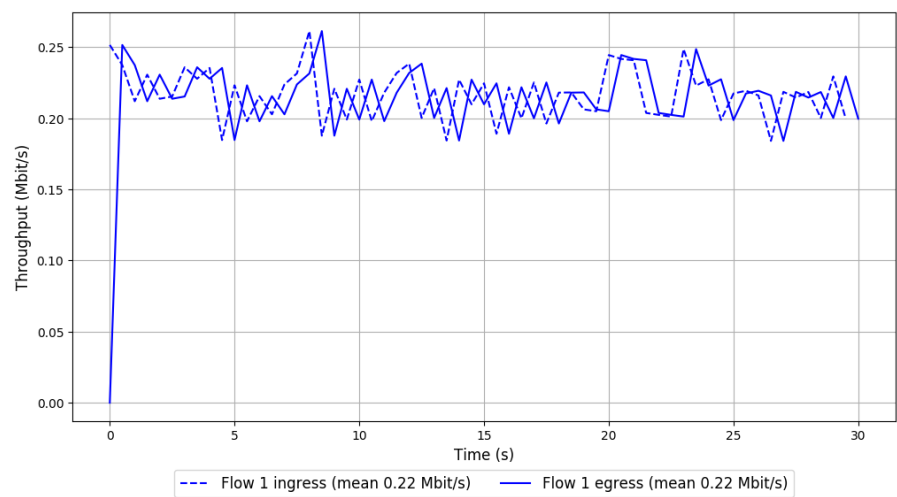
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.038 ms

Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

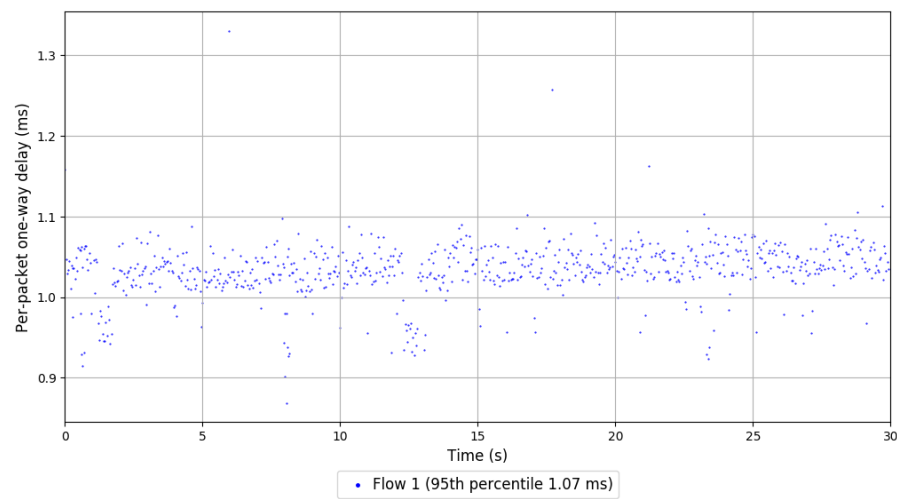
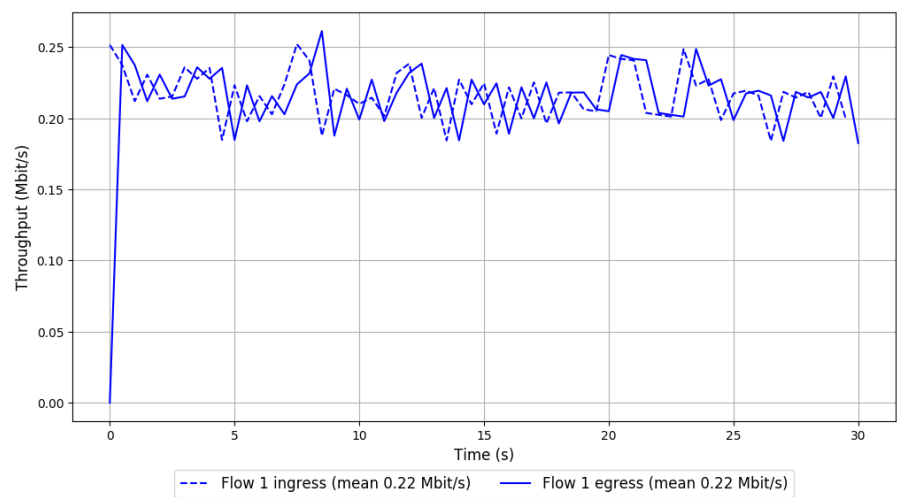


Run 2: Statistics of SCReAM

Start at: 2019-08-27 06:34:15  
End at: 2019-08-27 06:34:45  
Local clock offset: 0.973 ms  
Remote clock offset: -2.605 ms

# Below is generated by plot.py at 2019-08-27 09:18:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.074 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.074 ms  
Loss rate: 0.13%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-08-27 07:07:09

End at: 2019-08-27 07:07:39

Local clock offset: 1.318 ms

Remote clock offset: 2.522 ms

# Below is generated by plot.py at 2019-08-27 09:18:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.170 ms

Loss rate: 0.00%

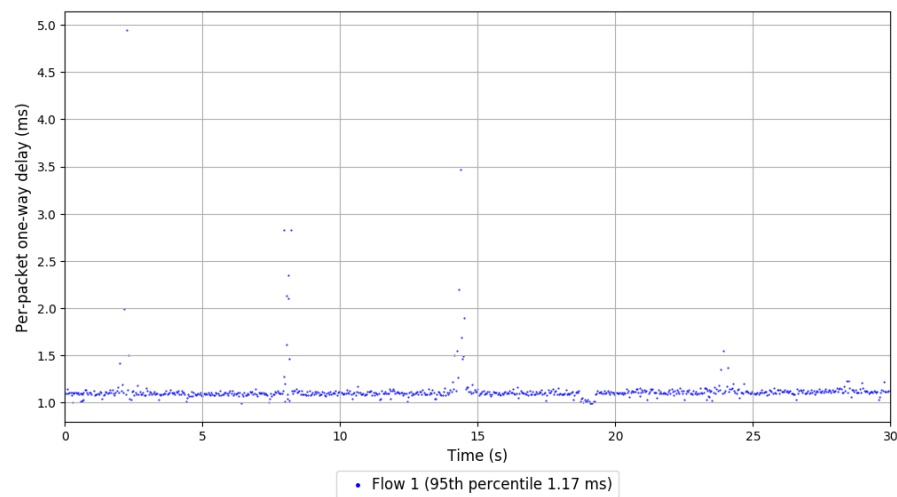
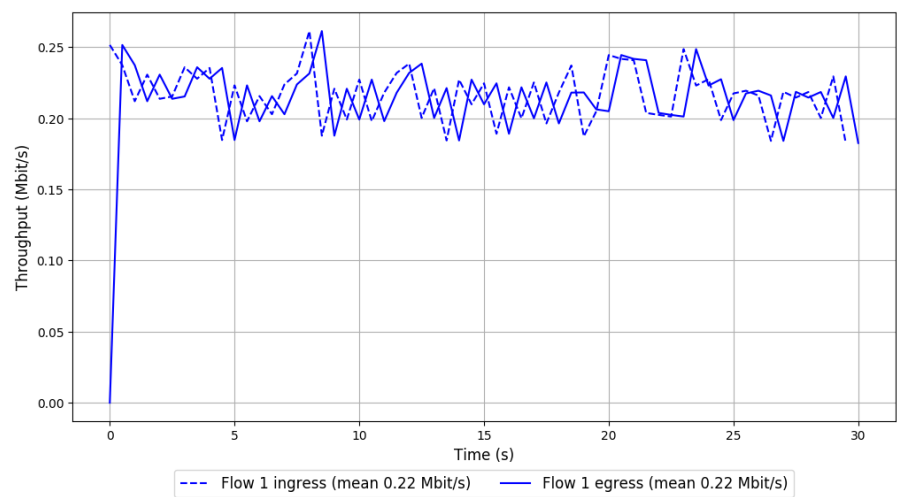
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.170 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-08-27 07:40:07

End at: 2019-08-27 07:40:37

Local clock offset: 1.171 ms

Remote clock offset: 1.034 ms

# Below is generated by plot.py at 2019-08-27 09:18:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.144 ms

Loss rate: 0.00%

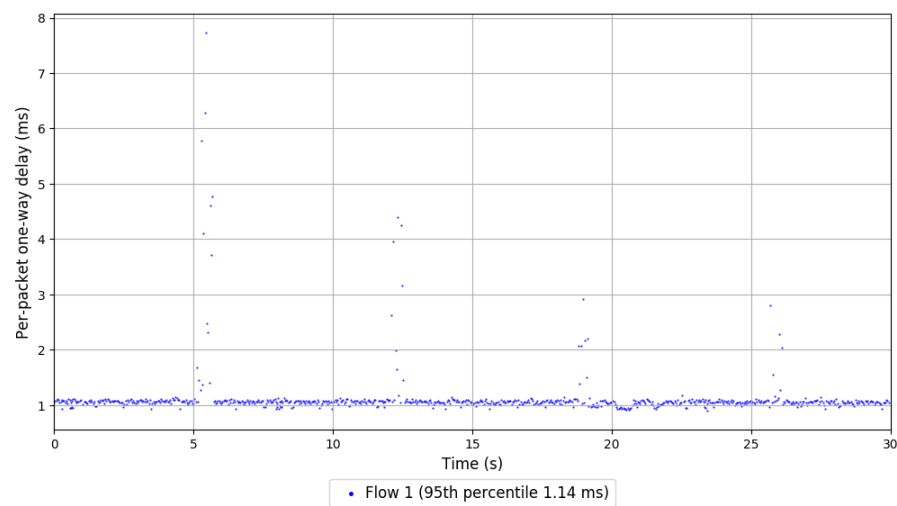
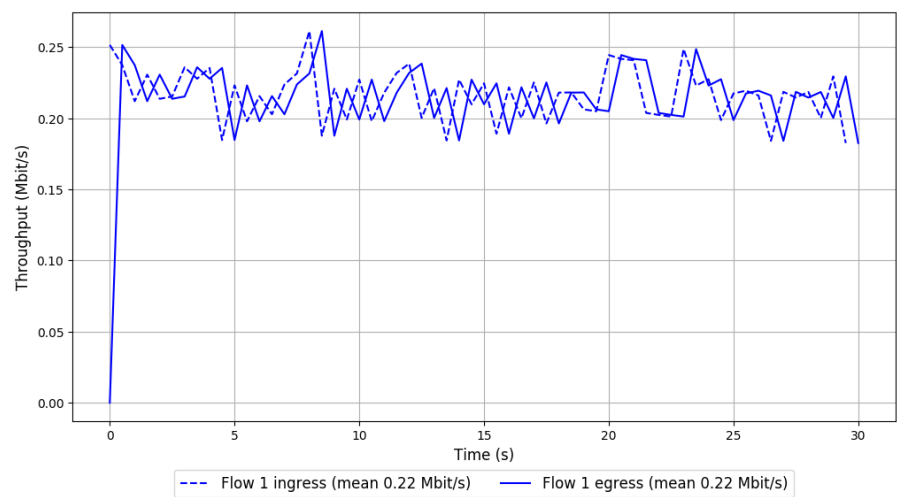
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.144 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-08-27 08:13:18

End at: 2019-08-27 08:13:48

Local clock offset: 1.153 ms

Remote clock offset: 0.452 ms

# Below is generated by plot.py at 2019-08-27 09:18:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.071 ms

Loss rate: 0.00%

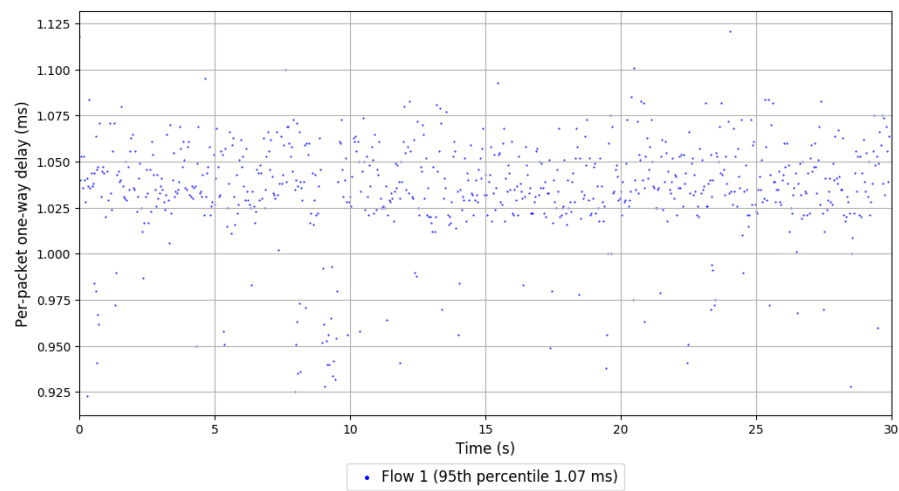
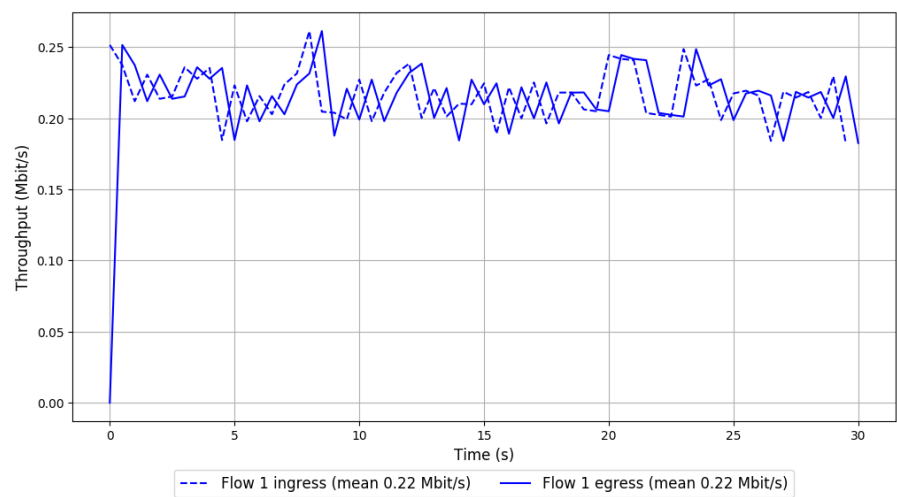
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.071 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

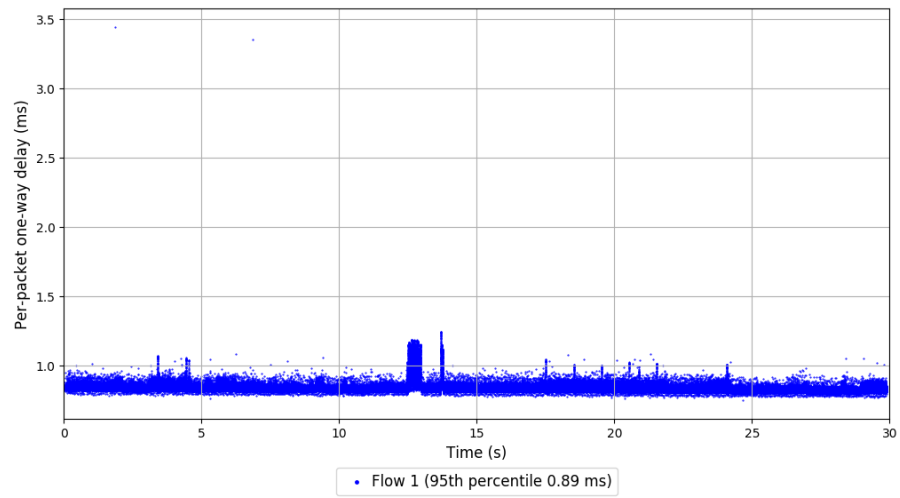
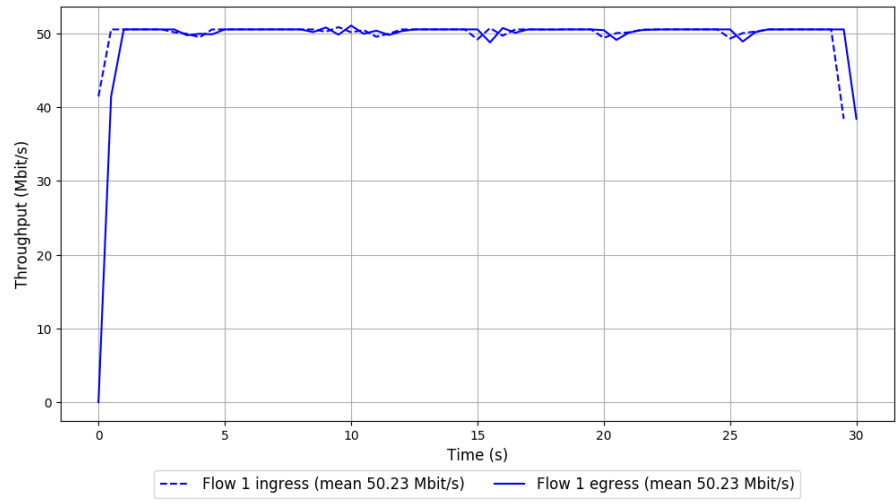


Run 1: Statistics of Sprout

Start at: 2019-08-27 05:50:15  
End at: 2019-08-27 05:50:45  
Local clock offset: 0.426 ms  
Remote clock offset: -2.577 ms

# Below is generated by plot.py at 2019-08-27 09:18:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 50.23 Mbit/s  
95th percentile per-packet one-way delay: 0.889 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 50.23 Mbit/s  
95th percentile per-packet one-way delay: 0.889 ms  
Loss rate: 0.00%

## Run 1: Report of Sprout — Data Link

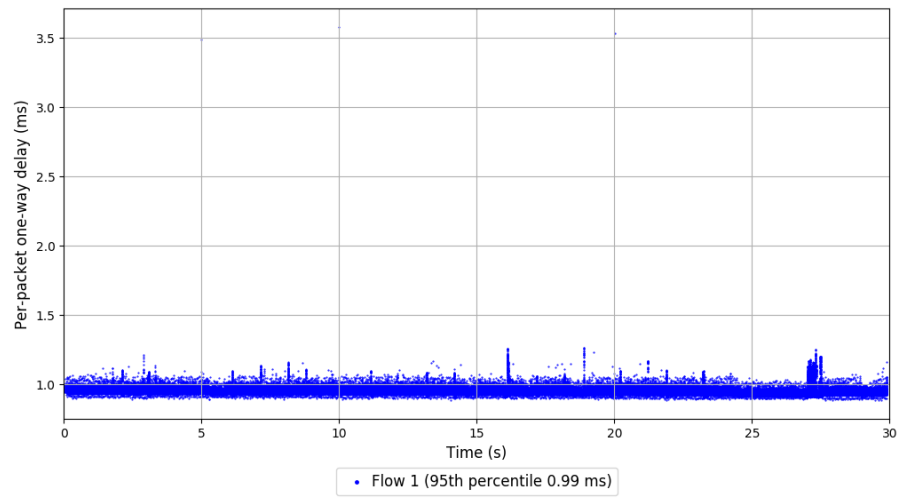
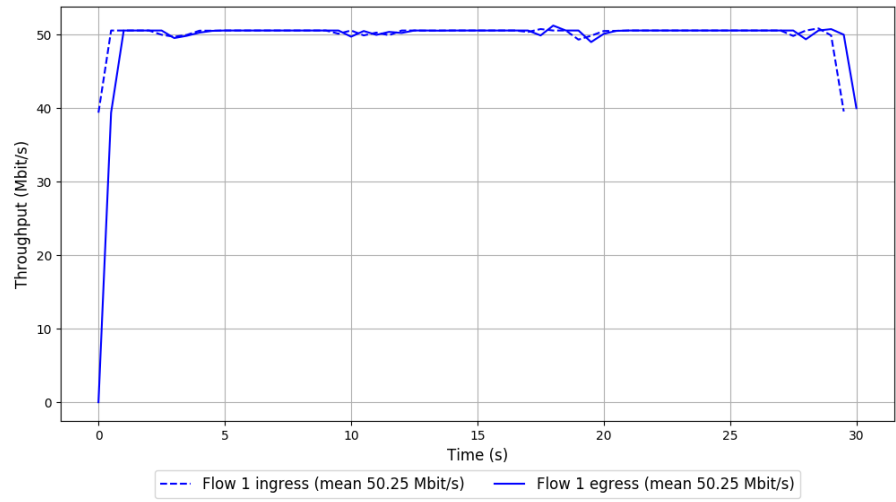


Run 2: Statistics of Sprout

Start at: 2019-08-27 06:23:30  
End at: 2019-08-27 06:24:00  
Local clock offset: 0.925 ms  
Remote clock offset: -2.685 ms

# Below is generated by plot.py at 2019-08-27 09:18:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 50.25 Mbit/s  
95th percentile per-packet one-way delay: 0.995 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 50.25 Mbit/s  
95th percentile per-packet one-way delay: 0.995 ms  
Loss rate: 0.00%

## Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-08-27 06:56:28

End at: 2019-08-27 06:56:58

Local clock offset: 1.193 ms

Remote clock offset: 0.394 ms

# Below is generated by plot.py at 2019-08-27 09:18:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.24 Mbit/s

95th percentile per-packet one-way delay: 1.149 ms

Loss rate: 0.00%

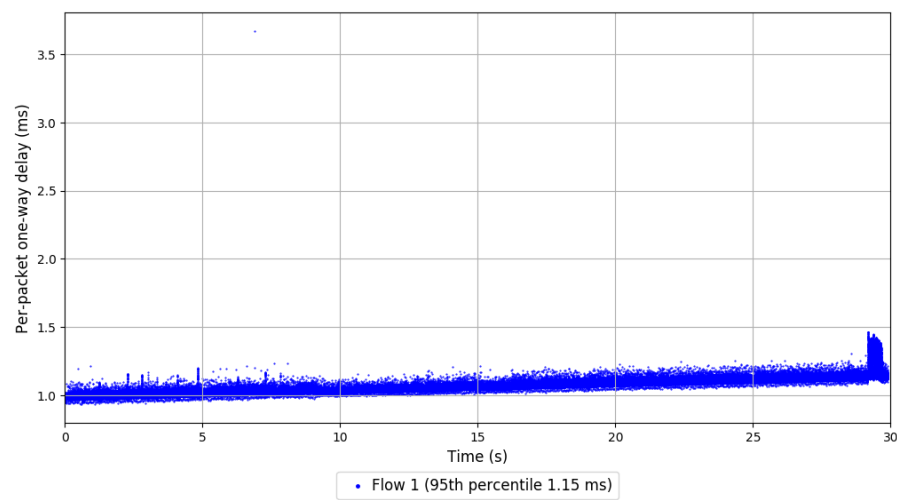
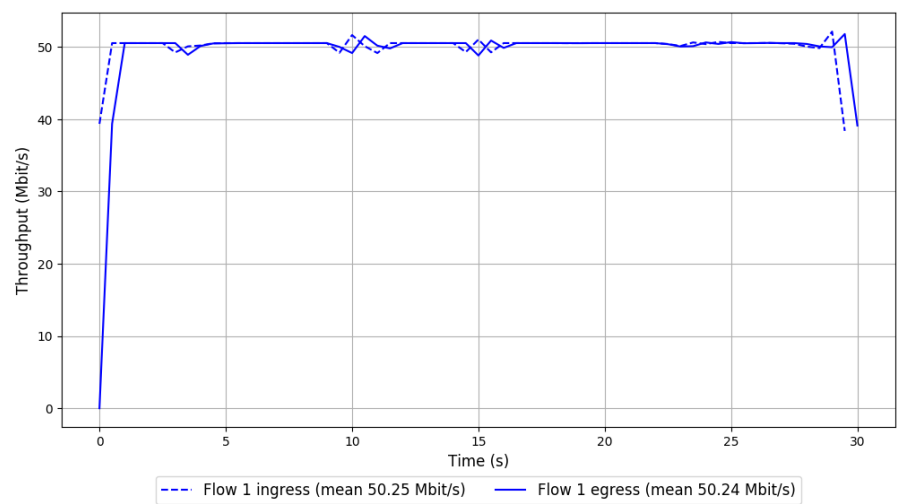
-- Flow 1:

Average throughput: 50.24 Mbit/s

95th percentile per-packet one-way delay: 1.149 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-08-27 07:29:22

End at: 2019-08-27 07:29:52

Local clock offset: 1.197 ms

Remote clock offset: 2.208 ms

# Below is generated by plot.py at 2019-08-27 09:18:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.32 Mbit/s

95th percentile per-packet one-way delay: 0.957 ms

Loss rate: 0.00%

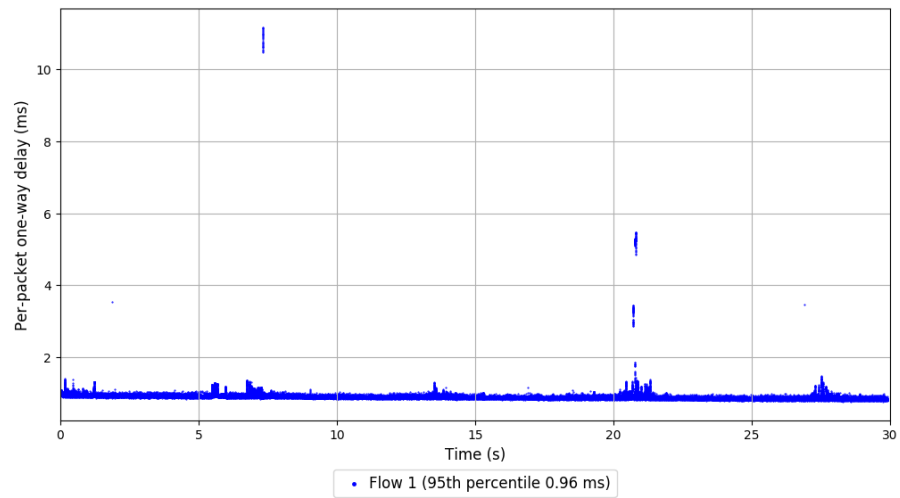
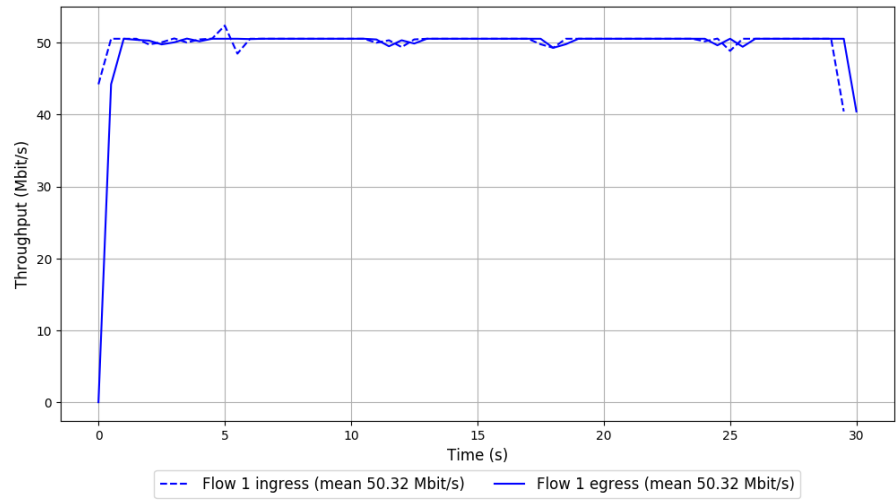
-- Flow 1:

Average throughput: 50.32 Mbit/s

95th percentile per-packet one-way delay: 0.957 ms

Loss rate: 0.00%

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



Run 5: Statistics of Sprout

Start at: 2019-08-27 08:02:33

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

Local clock offset: 1.138 ms

Remote clock offset: 0.742 ms

# Below is generated by plot.py at 2019-08-27 09:18:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.24 Mbit/s

95th percentile per-packet one-way delay: 0.968 ms

Loss rate: 0.00%

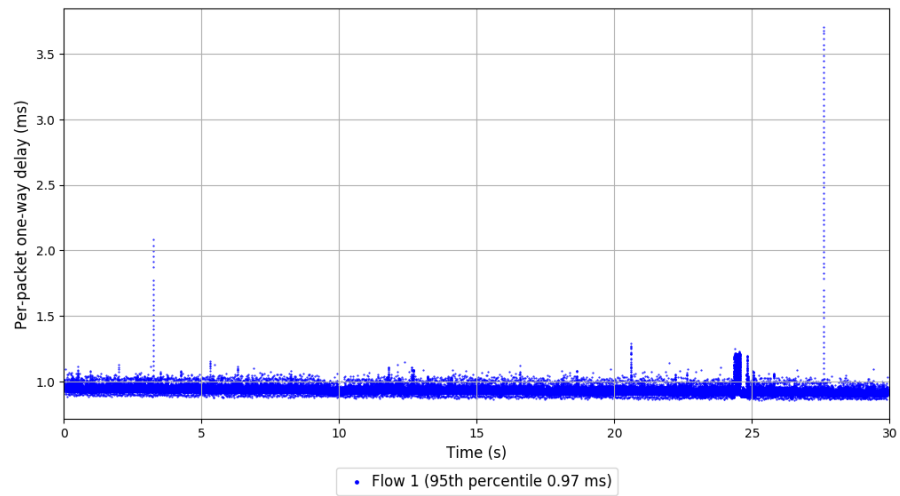
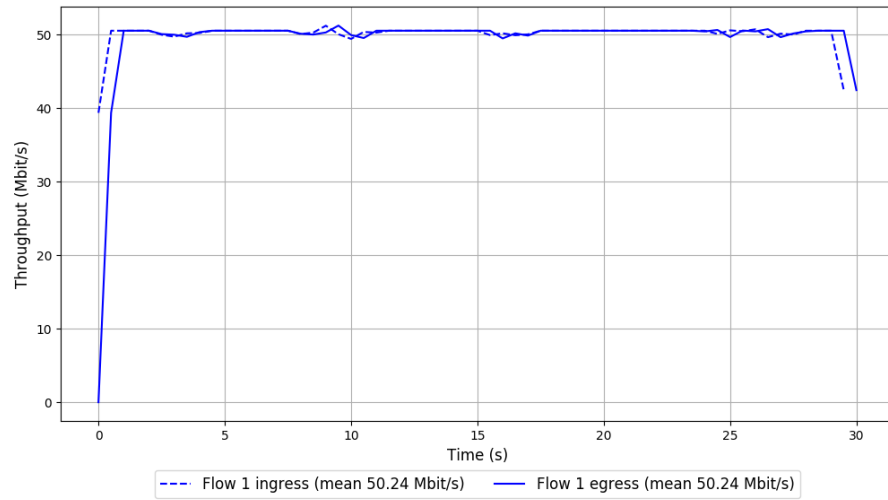
-- Flow 1:

Average throughput: 50.24 Mbit/s

95th percentile per-packet one-way delay: 0.968 ms

Loss rate: 0.00%

## Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-08-27 05:46:21

End at: 2019-08-27 05:46:51

Local clock offset: 0.365 ms

Remote clock offset: -2.567 ms

# Below is generated by plot.py at 2019-08-27 09:20:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 116.08 Mbit/s

95th percentile per-packet one-way delay: 0.911 ms

Loss rate: 0.00%

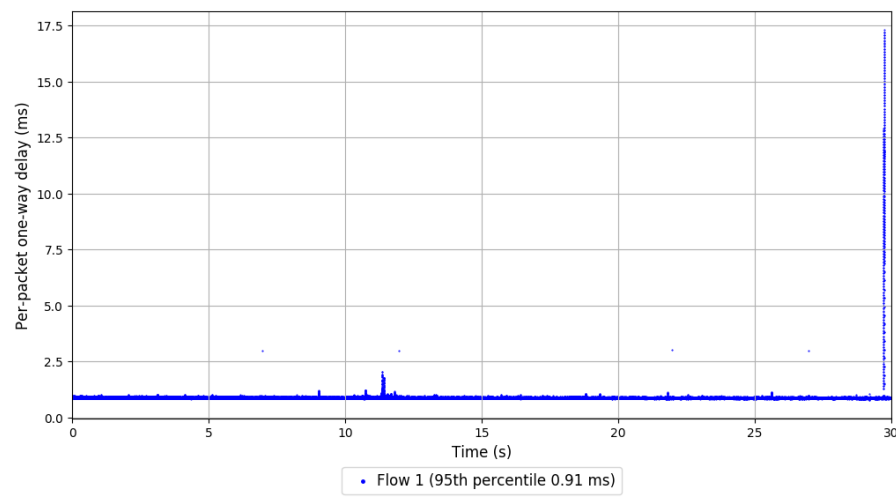
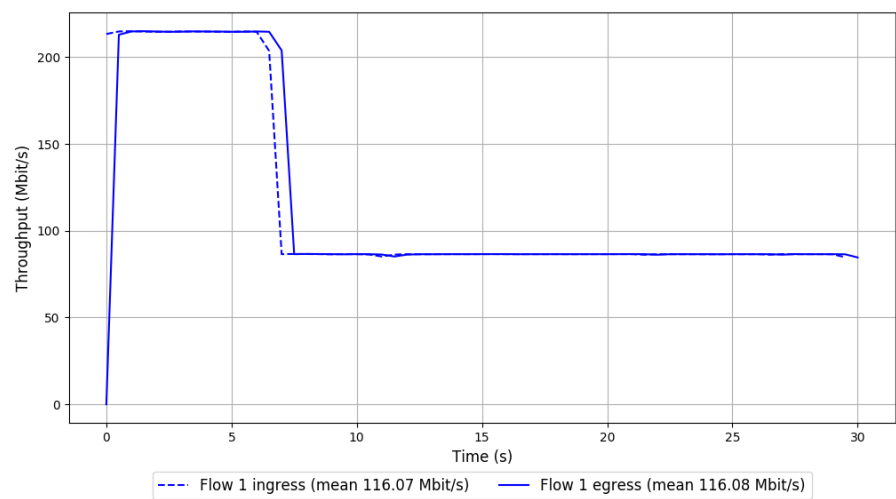
-- Flow 1:

Average throughput: 116.08 Mbit/s

95th percentile per-packet one-way delay: 0.911 ms

Loss rate: 0.00%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-08-27 06:19:42

End at: 2019-08-27 06:20:12

Local clock offset: 0.855 ms

Remote clock offset: -2.608 ms

# Below is generated by plot.py at 2019-08-27 09:20:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 22.95 Mbit/s

95th percentile per-packet one-way delay: 0.962 ms

Loss rate: 0.00%

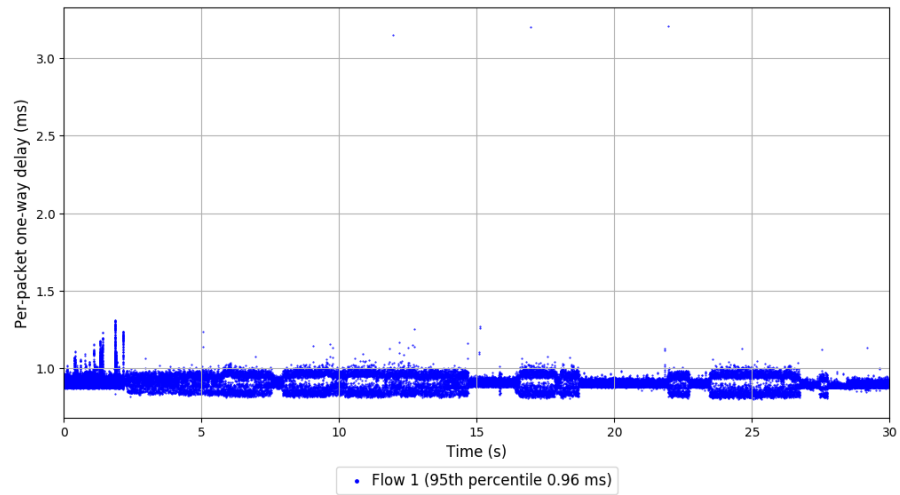
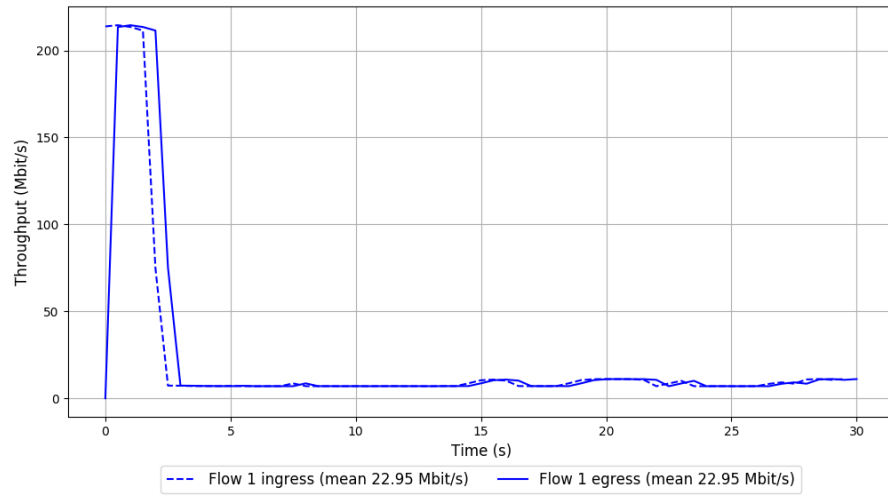
-- Flow 1:

Average throughput: 22.95 Mbit/s

95th percentile per-packet one-way delay: 0.962 ms

Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-08-27 06:52:38

End at: 2019-08-27 06:53:08

Local clock offset: 1.169 ms

Remote clock offset: -1.303 ms

# Below is generated by plot.py at 2019-08-27 09:20:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 56.24 Mbit/s

95th percentile per-packet one-way delay: 1.280 ms

Loss rate: 0.00%

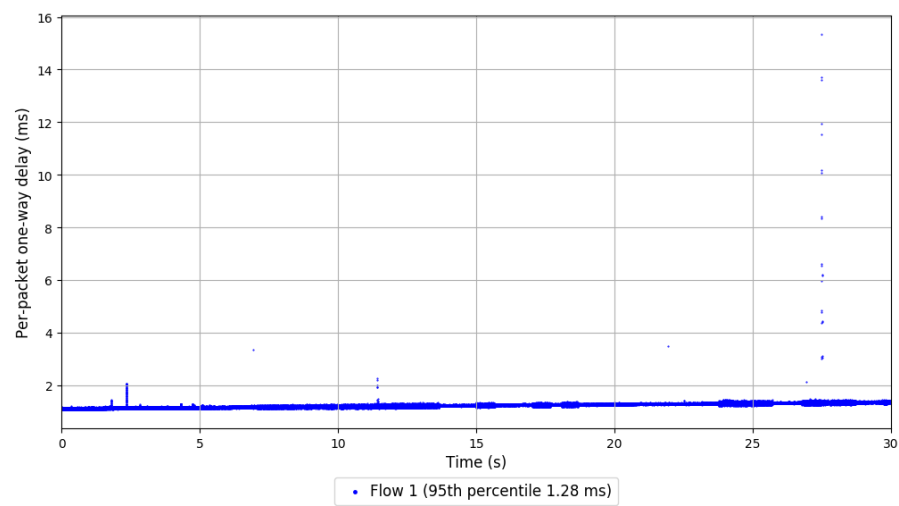
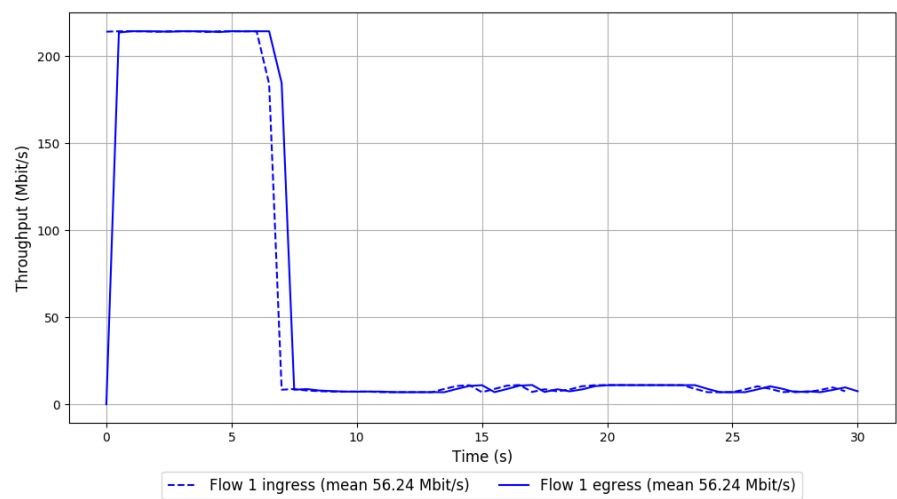
-- Flow 1:

Average throughput: 56.24 Mbit/s

95th percentile per-packet one-way delay: 1.280 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-08-27 07:25:33

End at: 2019-08-27 07:26:03

Local clock offset: 1.242 ms

Remote clock offset: 3.279 ms

# Below is generated by plot.py at 2019-08-27 09:20:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 20.56 Mbit/s

95th percentile per-packet one-way delay: 0.926 ms

Loss rate: 0.00%

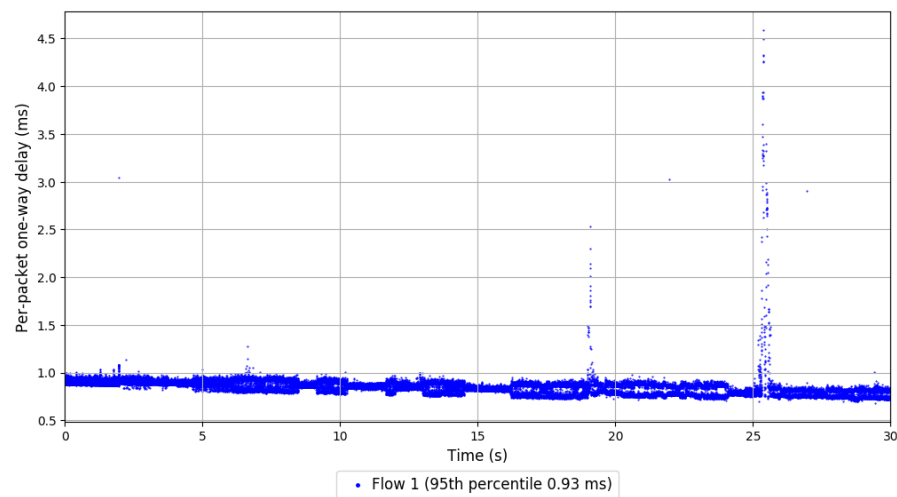
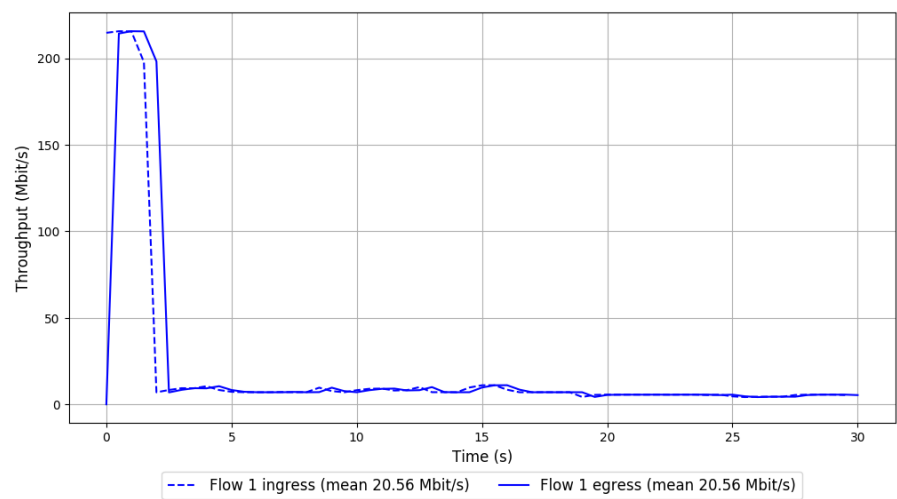
-- Flow 1:

Average throughput: 20.56 Mbit/s

95th percentile per-packet one-way delay: 0.926 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-08-27 07:58:39

End at: 2019-08-27 07:59:09

Local clock offset: 1.154 ms

Remote clock offset: 0.938 ms

# Below is generated by plot.py at 2019-08-27 09:20:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 105.12 Mbit/s

95th percentile per-packet one-way delay: 0.978 ms

Loss rate: 0.00%

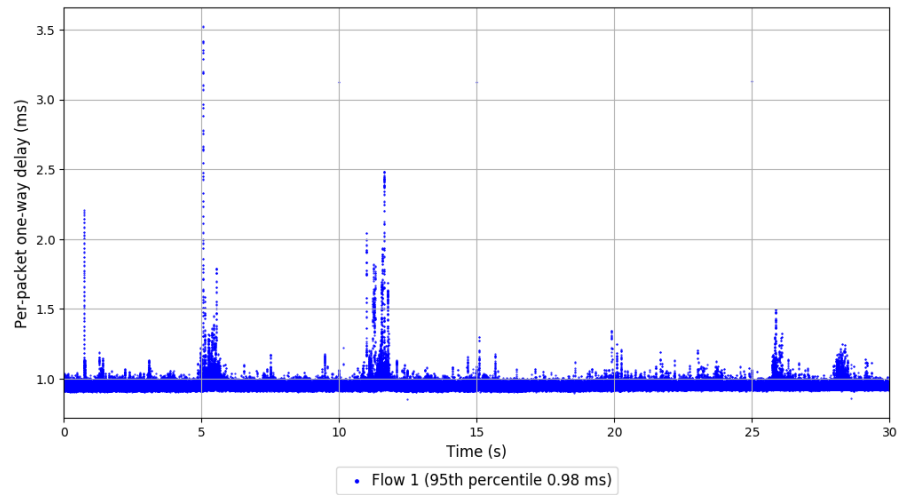
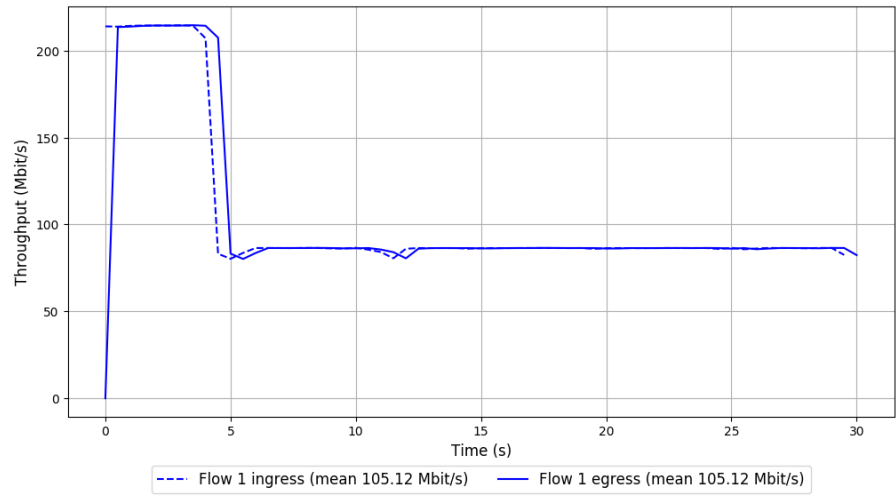
-- Flow 1:

Average throughput: 105.12 Mbit/s

95th percentile per-packet one-way delay: 0.978 ms

Loss rate: 0.00%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-08-27 05:55:28

End at: 2019-08-27 05:55:58

Local clock offset: 0.523 ms

Remote clock offset: -2.617 ms

# Below is generated by plot.py at 2019-08-27 09:20:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 234.34 Mbit/s

95th percentile per-packet one-way delay: 0.882 ms

Loss rate: 0.01%

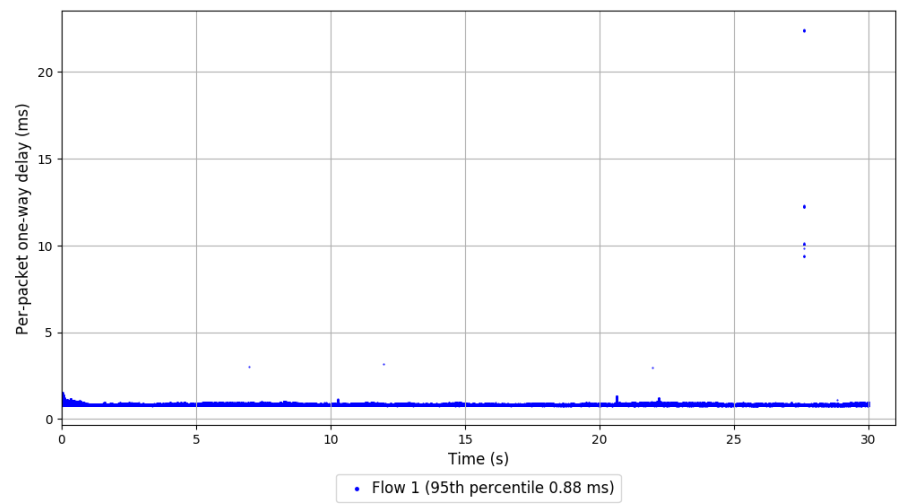
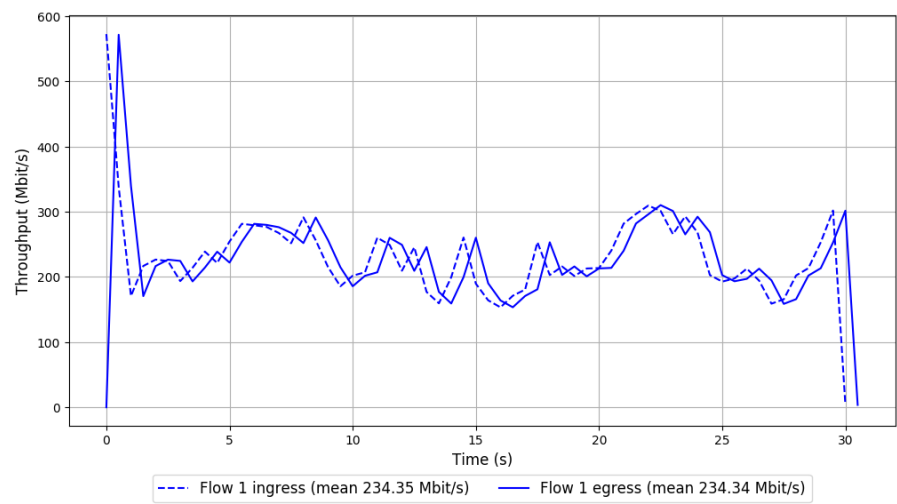
-- Flow 1:

Average throughput: 234.34 Mbit/s

95th percentile per-packet one-way delay: 0.882 ms

Loss rate: 0.01%

Run 1: Report of TCP Vegas — Data Link

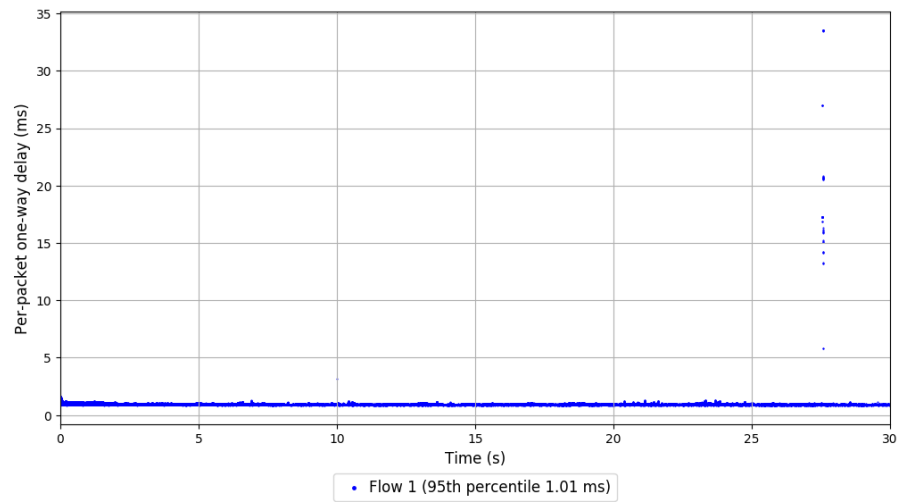
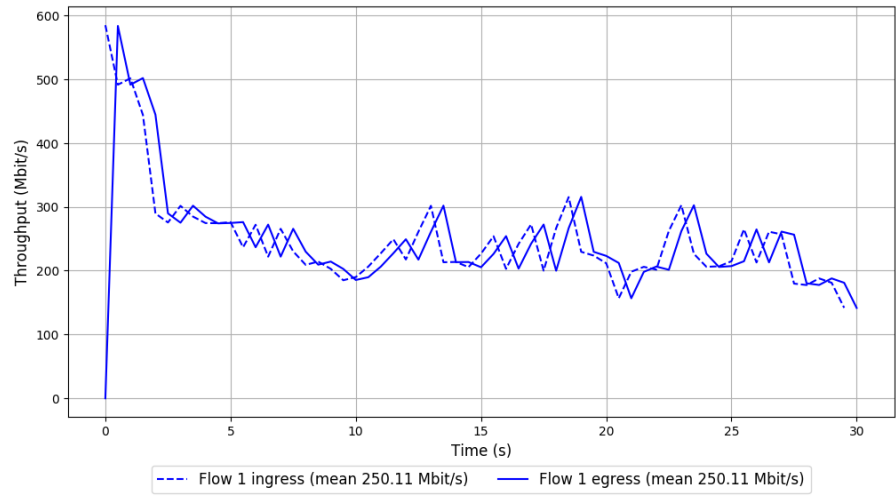


Run 2: Statistics of TCP Vegas

Start at: 2019-08-27 06:28:45  
End at: 2019-08-27 06:29:15  
Local clock offset: 0.948 ms  
Remote clock offset: -2.719 ms

# Below is generated by plot.py at 2019-08-27 09:21:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 250.11 Mbit/s  
95th percentile per-packet one-way delay: 1.009 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 250.11 Mbit/s  
95th percentile per-packet one-way delay: 1.009 ms  
Loss rate: 0.00%

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



Run 3: Statistics of TCP Vegas

Start at: 2019-08-27 07:01:43

End at: 2019-08-27 07:02:13

Local clock offset: 1.236 ms

Remote clock offset: 1.809 ms

# Below is generated by plot.py at 2019-08-27 09:21:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 226.81 Mbit/s

95th percentile per-packet one-way delay: 1.492 ms

Loss rate: 0.00%

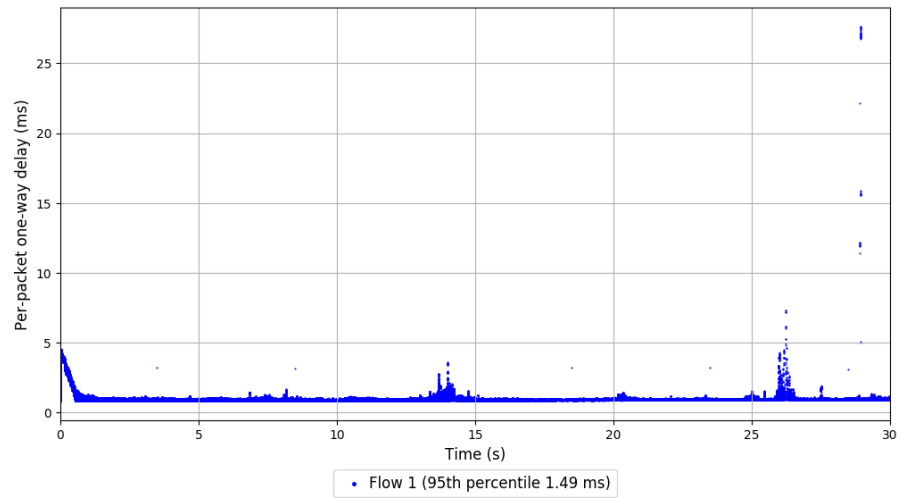
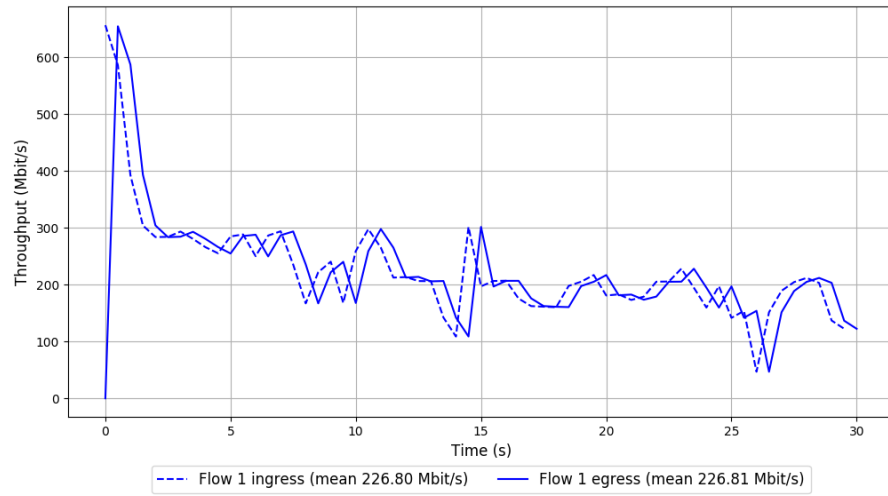
-- Flow 1:

Average throughput: 226.81 Mbit/s

95th percentile per-packet one-way delay: 1.492 ms

Loss rate: 0.00%

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



Run 4: Statistics of TCP Vegas

Start at: 2019-08-27 07:34:37

End at: 2019-08-27 07:35:07

Local clock offset: 1.173 ms

Remote clock offset: 1.433 ms

# Below is generated by plot.py at 2019-08-27 09:21:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 217.53 Mbit/s

95th percentile per-packet one-way delay: 2.974 ms

Loss rate: 0.00%

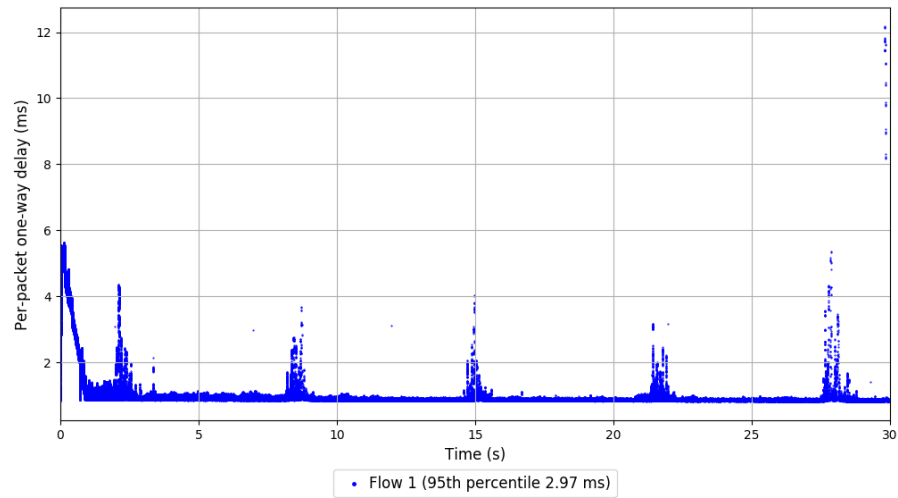
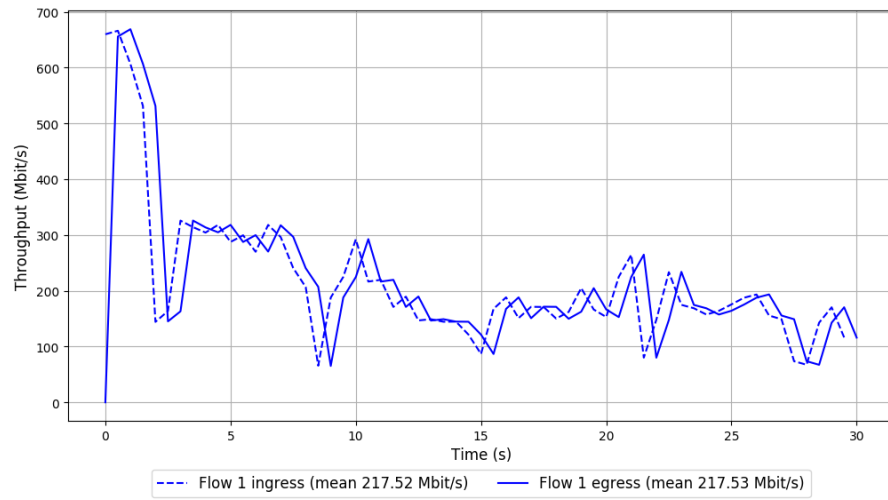
-- Flow 1:

Average throughput: 217.53 Mbit/s

95th percentile per-packet one-way delay: 2.974 ms

Loss rate: 0.00%

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



Run 5: Statistics of TCP Vegas

Start at: 2019-08-27 08:07:47

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

Local clock offset: 1.135 ms

Remote clock offset: 0.645 ms

# Below is generated by plot.py at 2019-08-27 09:21:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 270.15 Mbit/s

95th percentile per-packet one-way delay: 0.913 ms

Loss rate: 0.01%

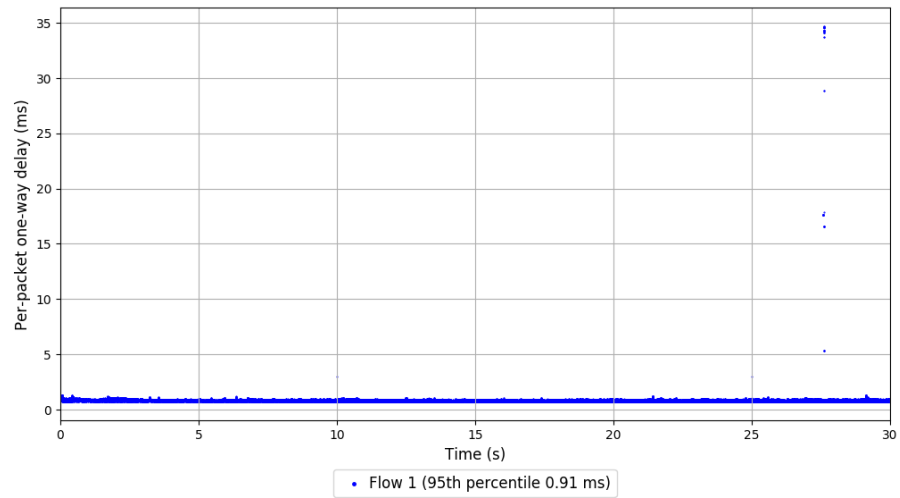
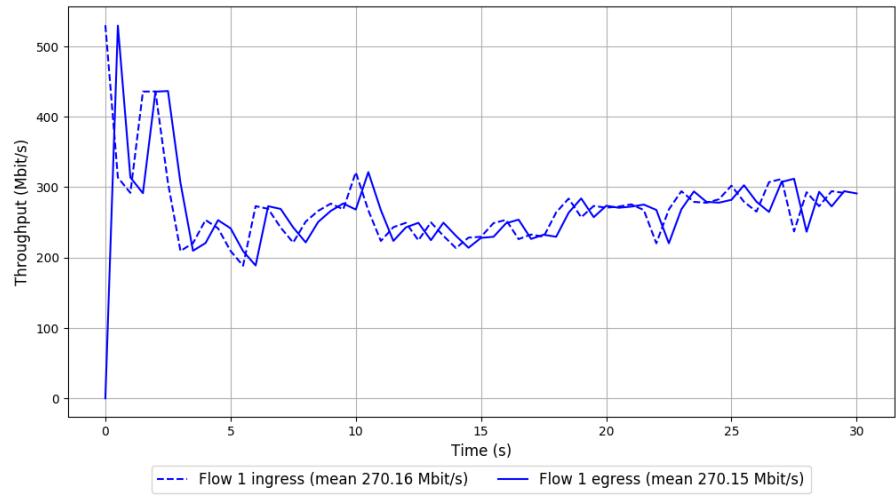
-- Flow 1:

Average throughput: 270.15 Mbit/s

95th percentile per-packet one-way delay: 0.913 ms

Loss rate: 0.01%

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

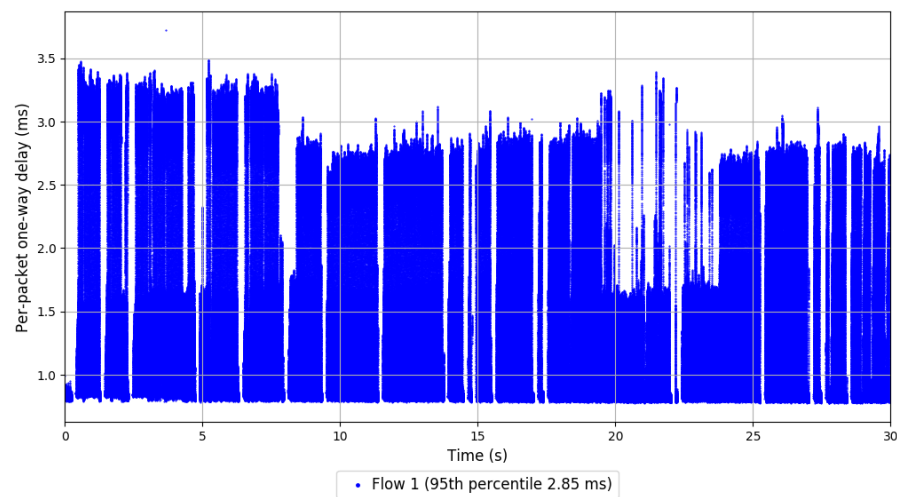
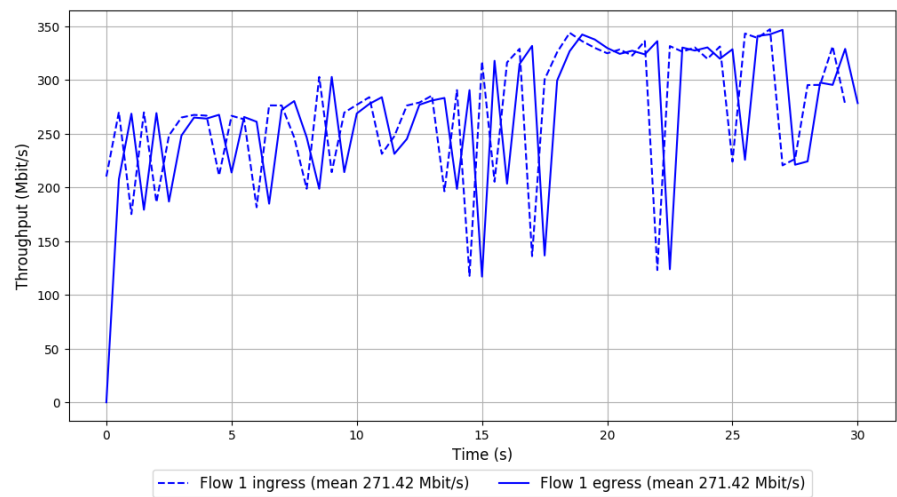


Run 1: Statistics of Verus

Start at: 2019-08-27 05:52:50  
End at: 2019-08-27 05:53:20  
Local clock offset: 0.487 ms  
Remote clock offset: -2.604 ms

# Below is generated by plot.py at 2019-08-27 09:22:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 271.42 Mbit/s  
95th percentile per-packet one-way delay: 2.853 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 271.42 Mbit/s  
95th percentile per-packet one-way delay: 2.853 ms  
Loss rate: 0.01%

Run 1: Report of Verus — Data Link

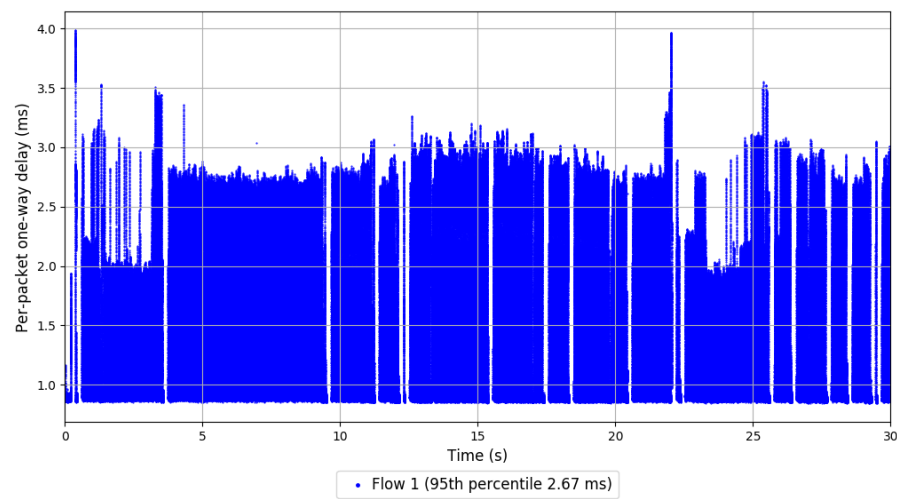
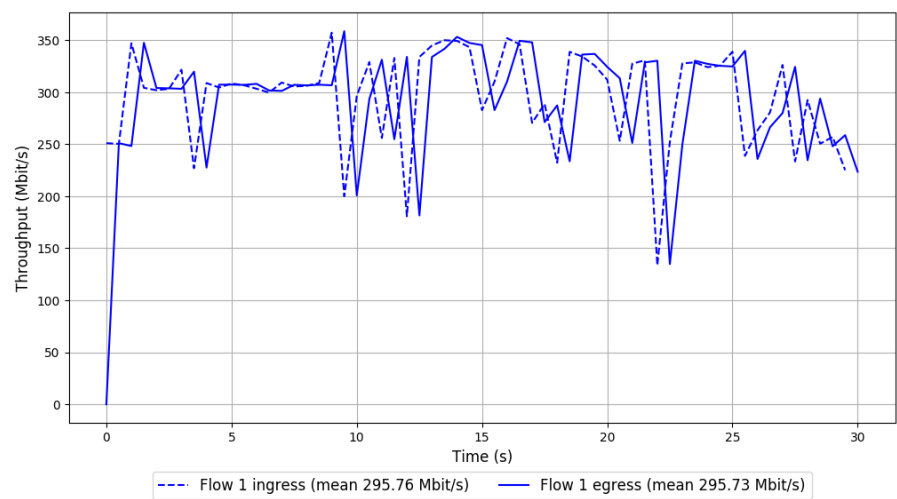


Run 2: Statistics of Verus

Start at: 2019-08-27 06:26:05  
End at: 2019-08-27 06:26:35  
Local clock offset: 0.896 ms  
Remote clock offset: -2.728 ms

# Below is generated by plot.py at 2019-08-27 09:23:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 295.73 Mbit/s  
95th percentile per-packet one-way delay: 2.666 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 295.73 Mbit/s  
95th percentile per-packet one-way delay: 2.666 ms  
Loss rate: 0.01%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-08-27 06:59:03

End at: 2019-08-27 06:59:33

Local clock offset: 1.221 ms

Remote clock offset: 1.133 ms

# Below is generated by plot.py at 2019-08-27 09:24:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 307.16 Mbit/s

95th percentile per-packet one-way delay: 2.644 ms

Loss rate: 0.02%

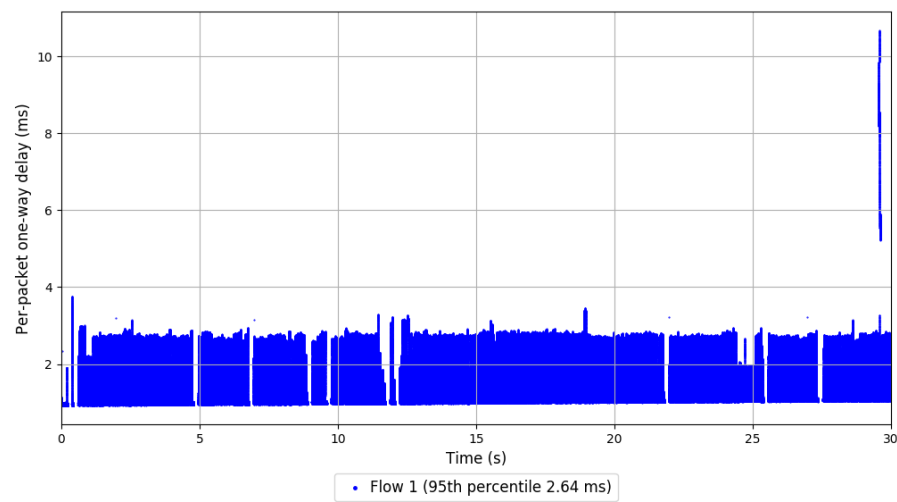
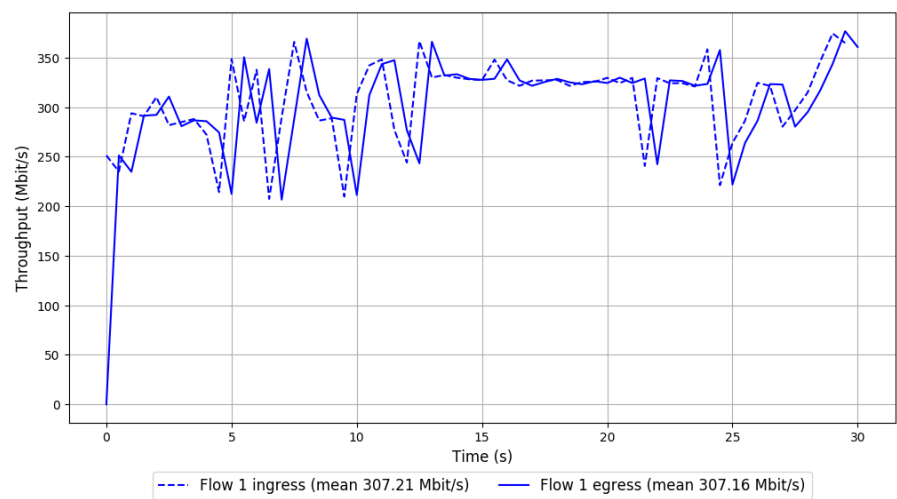
-- Flow 1:

Average throughput: 307.16 Mbit/s

95th percentile per-packet one-way delay: 2.644 ms

Loss rate: 0.02%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-08-27 07:31:56

End at: 2019-08-27 07:32:26

Local clock offset: 1.181 ms

Remote clock offset: 1.727 ms

# Below is generated by plot.py at 2019-08-27 09:24:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 326.09 Mbit/s

95th percentile per-packet one-way delay: 2.515 ms

Loss rate: 0.01%

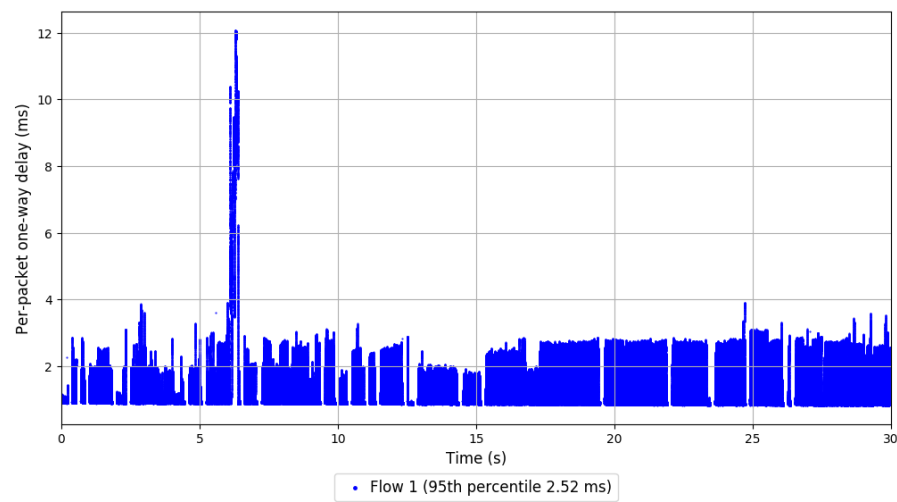
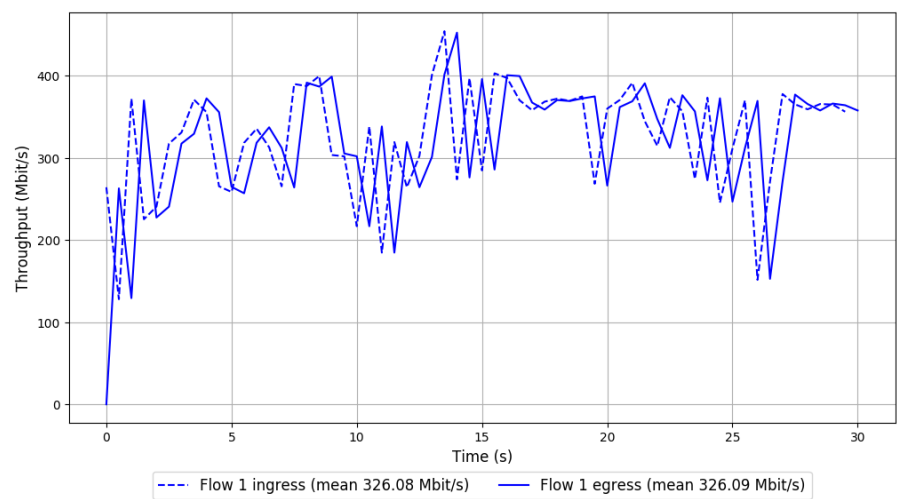
-- Flow 1:

Average throughput: 326.09 Mbit/s

95th percentile per-packet one-way delay: 2.515 ms

Loss rate: 0.01%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-08-27 08:05:08

End at: 2019-08-27 08:05:38

Local clock offset: 1.145 ms

Remote clock offset: 0.62 ms

# Below is generated by plot.py at 2019-08-27 09:24:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 287.75 Mbit/s

95th percentile per-packet one-way delay: 2.544 ms

Loss rate: 0.02%

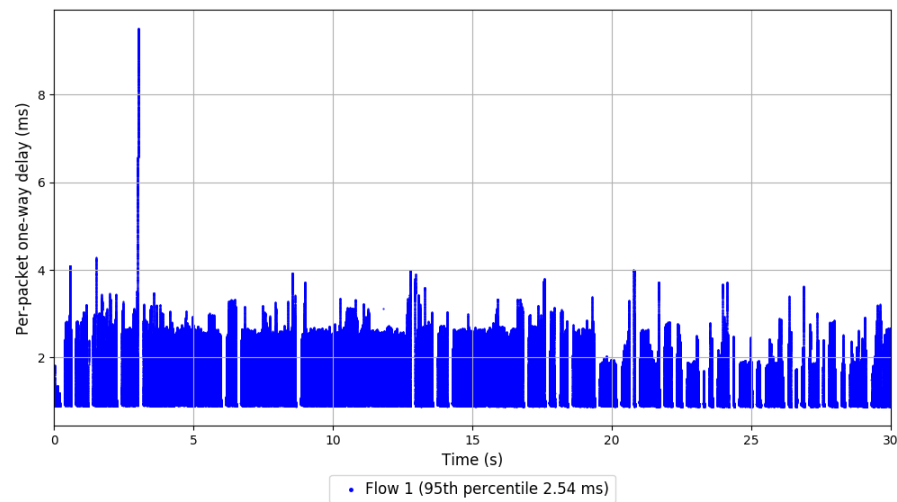
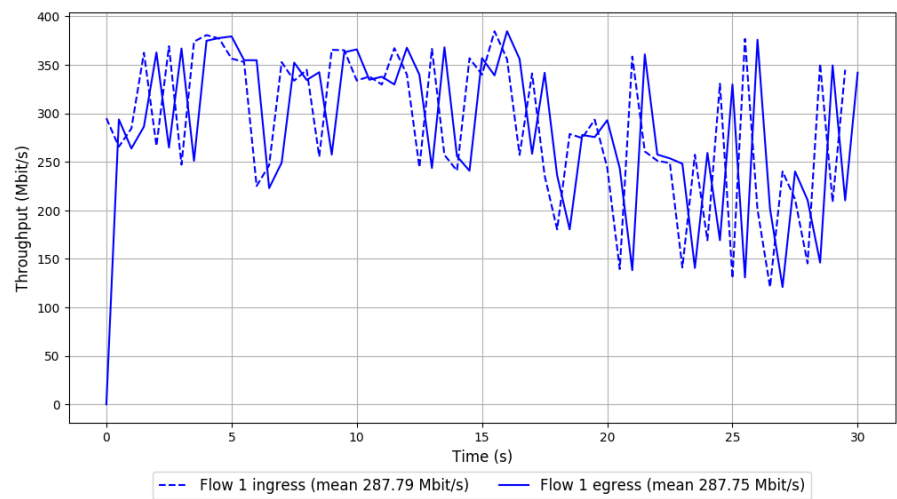
-- Flow 1:

Average throughput: 287.75 Mbit/s

95th percentile per-packet one-way delay: 2.544 ms

Loss rate: 0.02%

Run 5: Report of Verus — Data Link

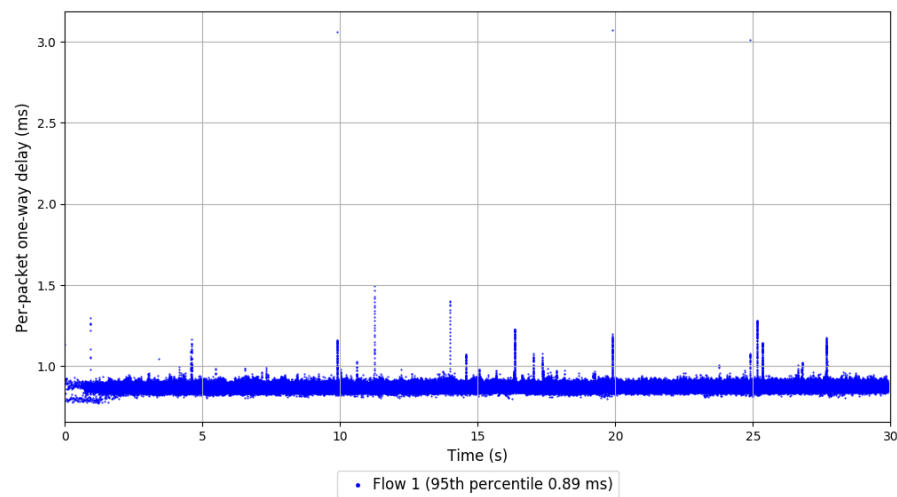
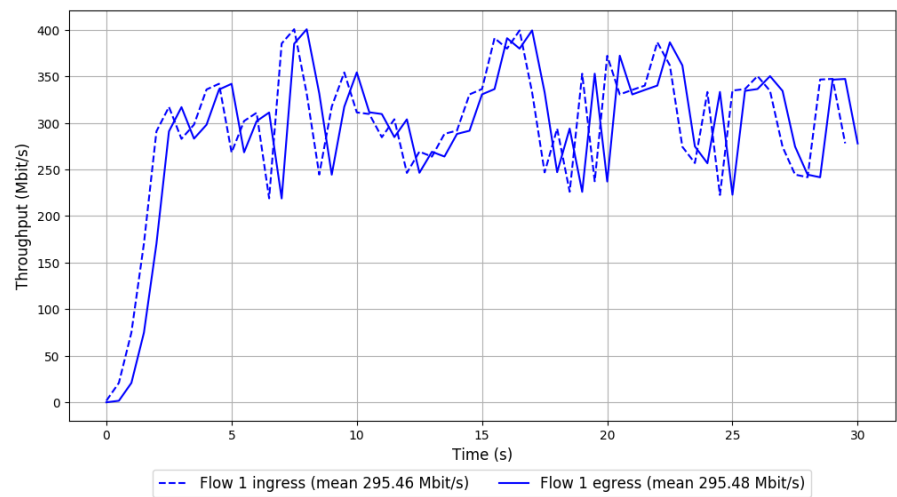


Run 1: Statistics of PCC-Vivace

Start at: 2019-08-27 05:38:41  
End at: 2019-08-27 05:39:11  
Local clock offset: 0.219 ms  
Remote clock offset: -2.626 ms

# Below is generated by plot.py at 2019-08-27 09:24:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 295.48 Mbit/s  
95th percentile per-packet one-way delay: 0.892 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 295.48 Mbit/s  
95th percentile per-packet one-way delay: 0.892 ms  
Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-08-27 06:11:58

End at: 2019-08-27 06:12:28

Local clock offset: 0.782 ms

Remote clock offset: -2.712 ms

# Below is generated by plot.py at 2019-08-27 09:25:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 330.23 Mbit/s

95th percentile per-packet one-way delay: 0.920 ms

Loss rate: 0.01%

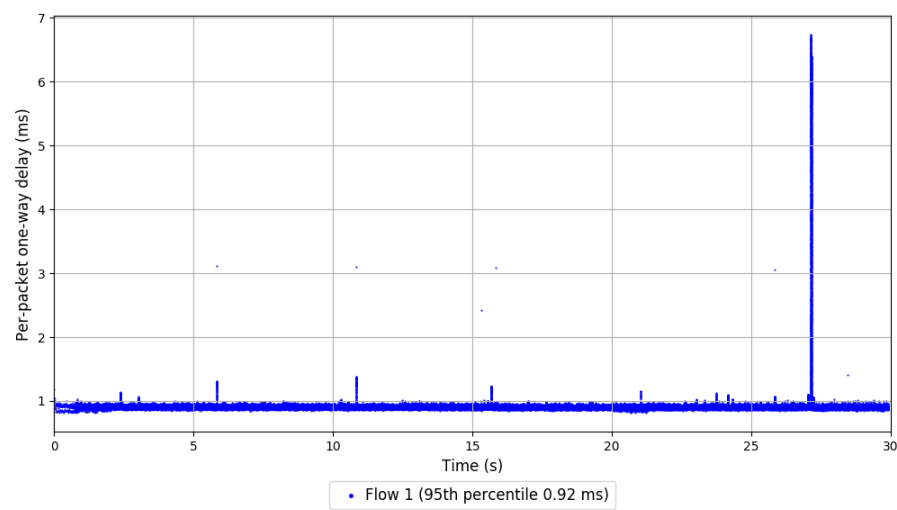
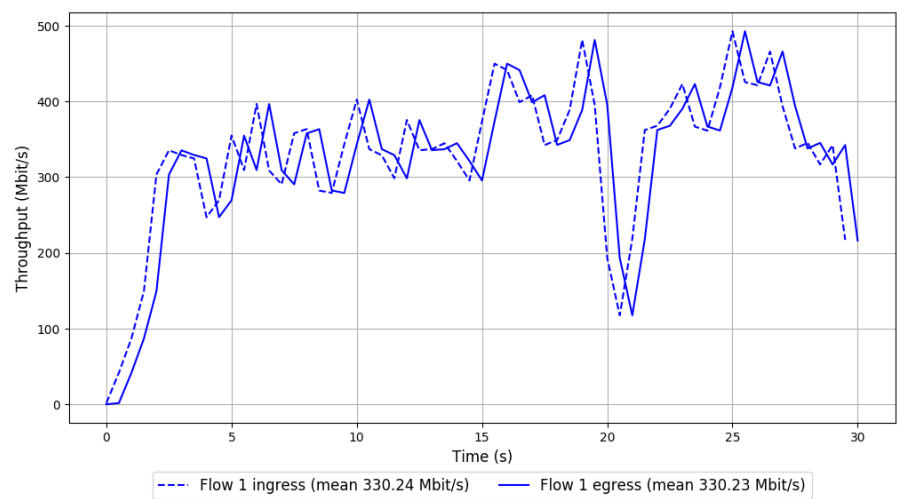
-- Flow 1:

Average throughput: 330.23 Mbit/s

95th percentile per-packet one-way delay: 0.920 ms

Loss rate: 0.01%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-08-27 06:45:20

End at: 2019-08-27 06:45:50

Local clock offset: 1.075 ms

Remote clock offset: -2.141 ms

# Below is generated by plot.py at 2019-08-27 09:25:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 299.20 Mbit/s

95th percentile per-packet one-way delay: 1.000 ms

Loss rate: 0.00%

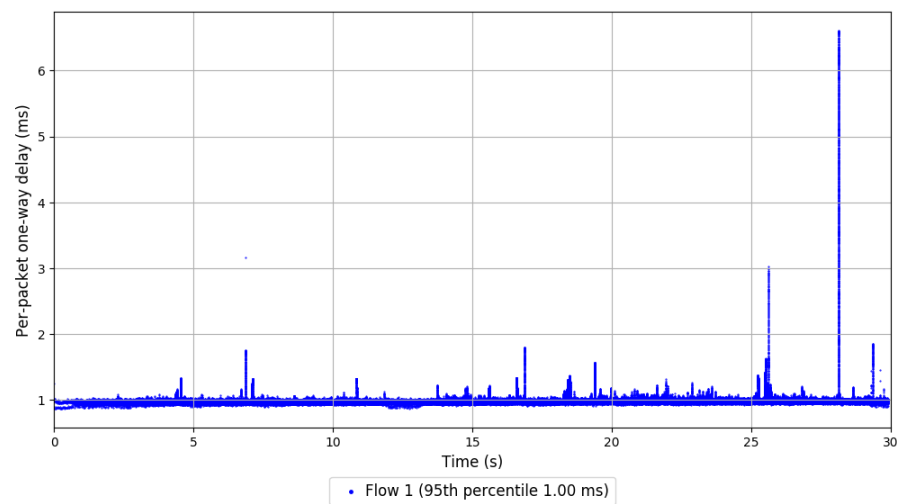
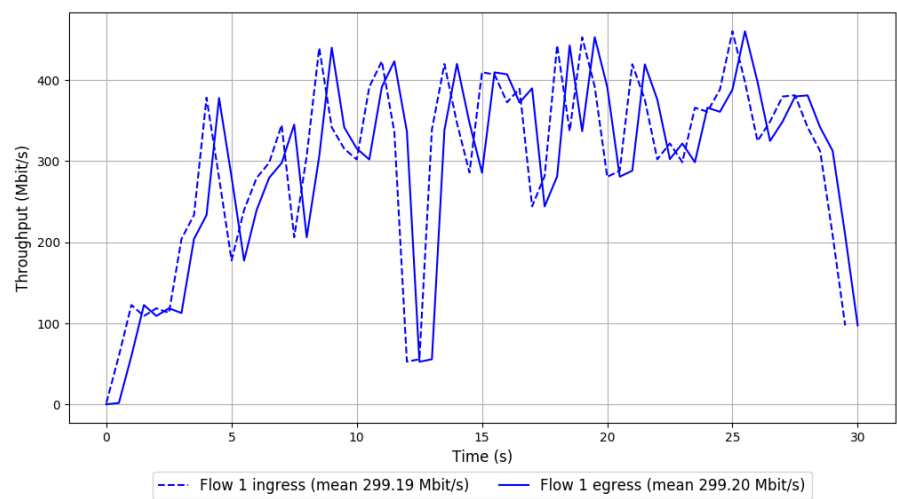
-- Flow 1:

Average throughput: 299.20 Mbit/s

95th percentile per-packet one-way delay: 1.000 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-08-27 07:18:11

End at: 2019-08-27 07:18:41

Local clock offset: 1.247 ms

Remote clock offset: 3.277 ms

# Below is generated by plot.py at 2019-08-27 09:25:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 324.59 Mbit/s

95th percentile per-packet one-way delay: 0.927 ms

Loss rate: 0.02%

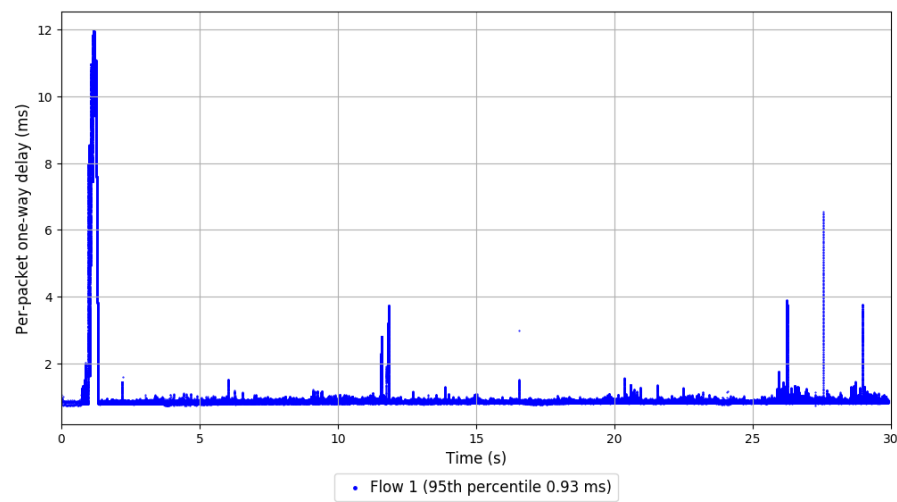
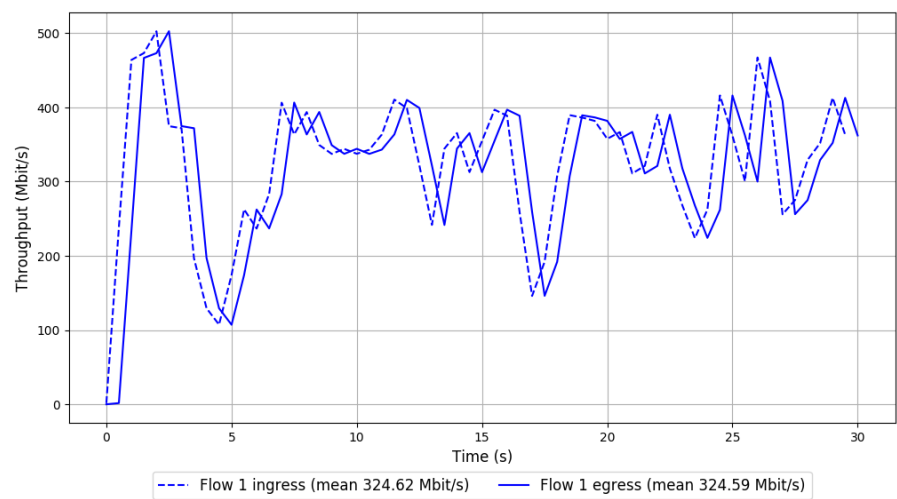
-- Flow 1:

Average throughput: 324.59 Mbit/s

95th percentile per-packet one-way delay: 0.927 ms

Loss rate: 0.02%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-08-27 07:51:13

End at: 2019-08-27 07:51:43

Local clock offset: 1.169 ms

Remote clock offset: 0.99 ms

# Below is generated by plot.py at 2019-08-27 09:25:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 346.66 Mbit/s

95th percentile per-packet one-way delay: 0.924 ms

Loss rate: 0.01%

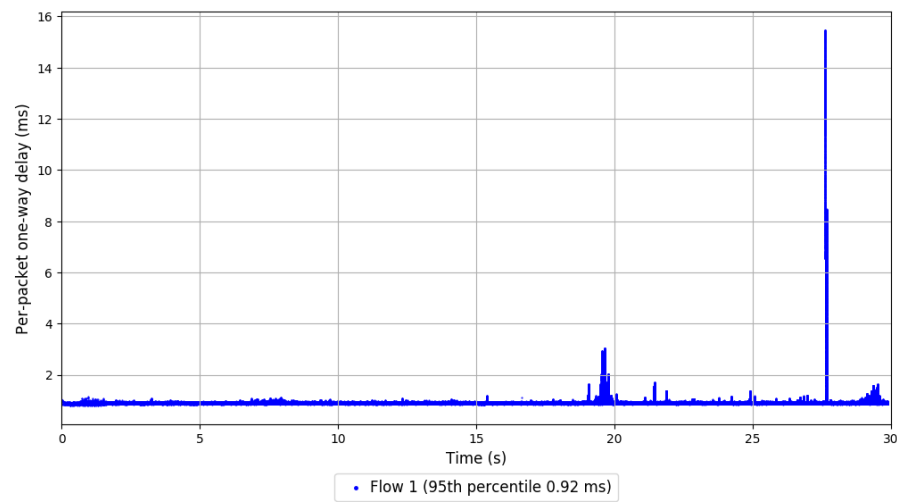
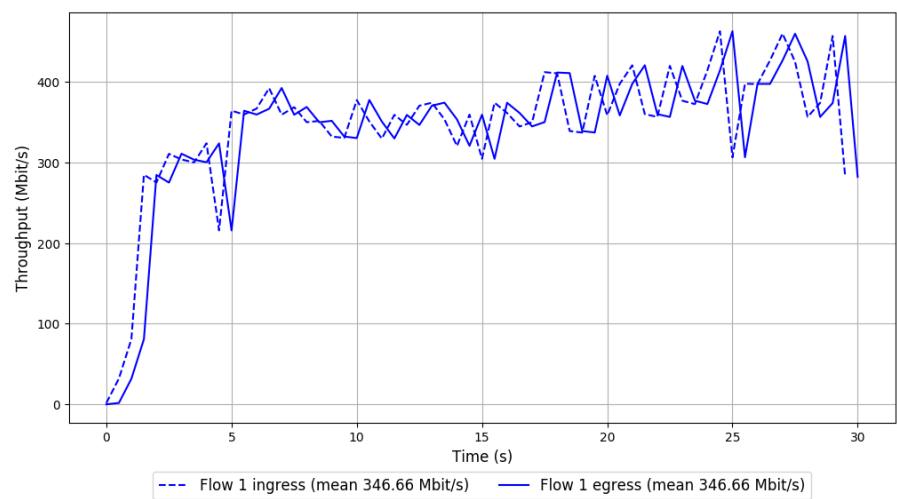
-- Flow 1:

Average throughput: 346.66 Mbit/s

95th percentile per-packet one-way delay: 0.924 ms

Loss rate: 0.01%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-08-27 05:49:02

End at: 2019-08-27 05:49:32

Local clock offset: 0.419 ms

Remote clock offset: -2.671 ms

# Below is generated by plot.py at 2019-08-27 09:25:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.033 ms

Loss rate: 0.00%

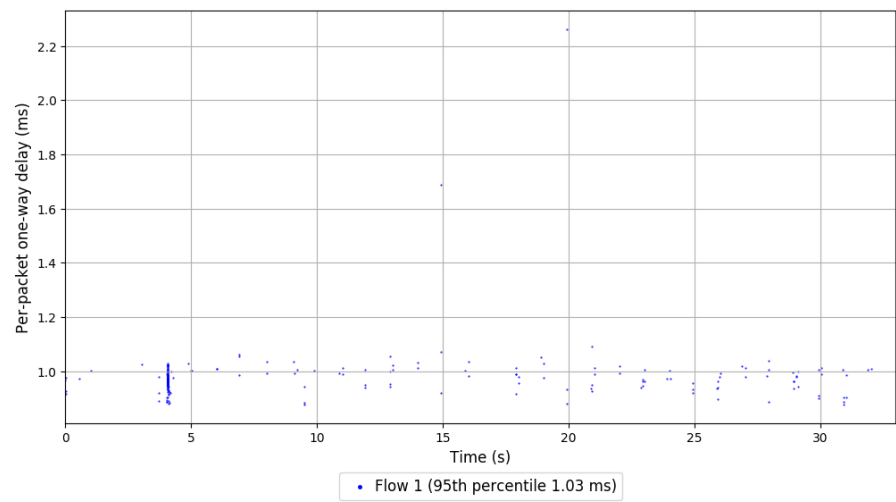
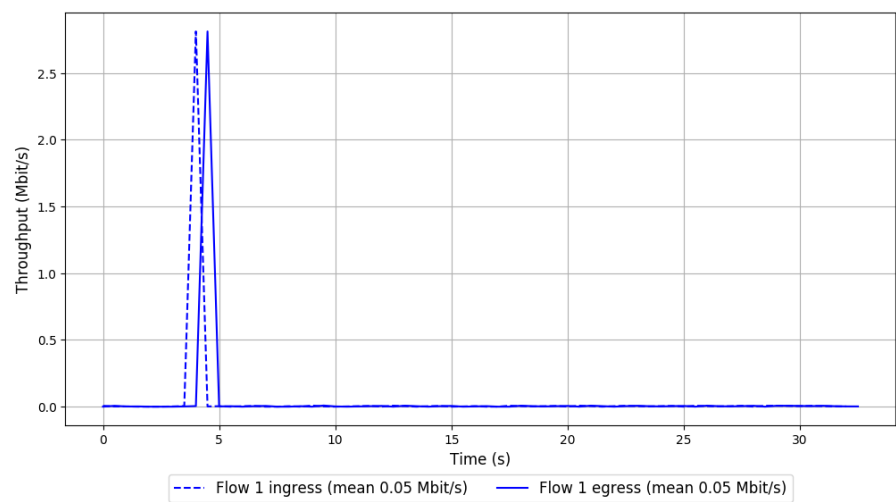
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.033 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

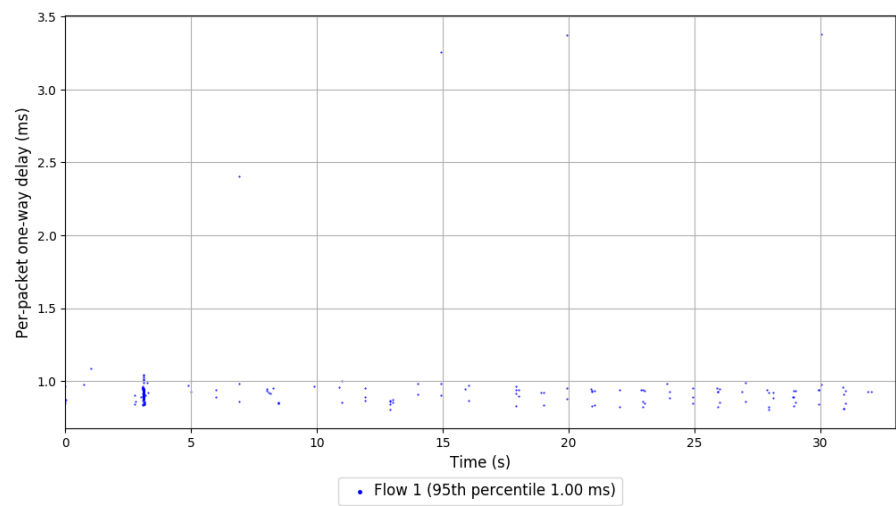
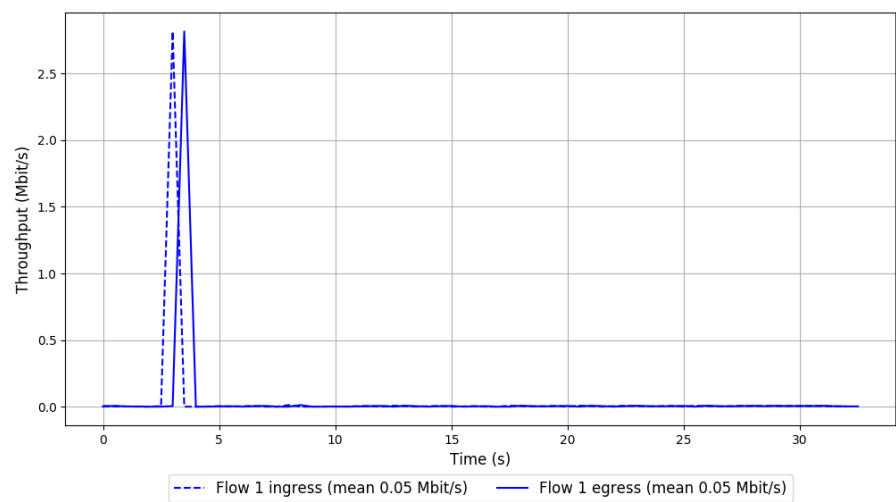


Run 2: Statistics of WebRTC media

Start at: 2019-08-27 06:22:17  
End at: 2019-08-27 06:22:47  
Local clock offset: 0.882 ms  
Remote clock offset: -2.637 ms

# Below is generated by plot.py at 2019-08-27 09:25:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 0.999 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 0.999 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

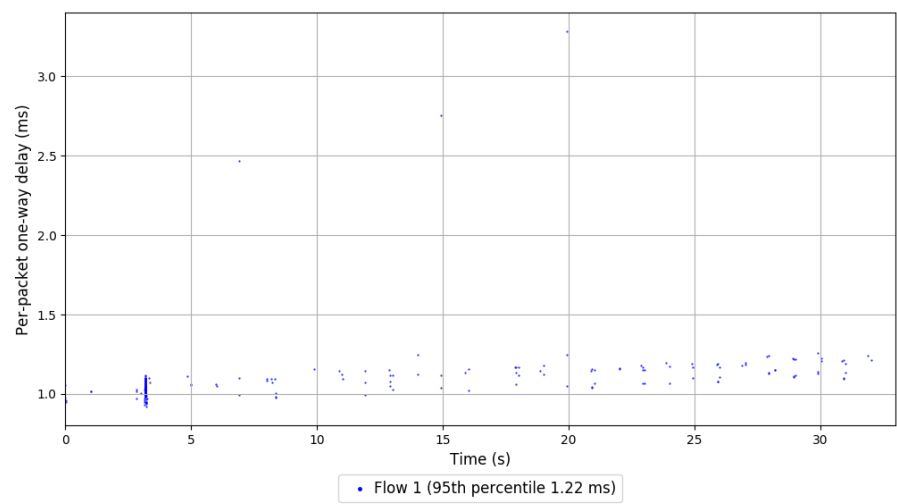
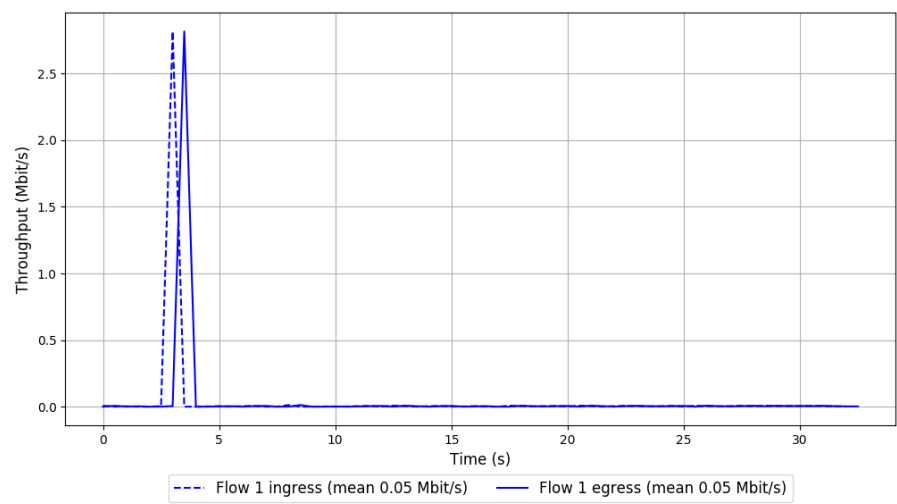


Run 3: Statistics of WebRTC media

Start at: 2019-08-27 06:55:15  
End at: 2019-08-27 06:55:45  
Local clock offset: 1.158 ms  
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2019-08-27 09:25:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.217 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.217 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-08-27 07:28:09

End at: 2019-08-27 07:28:39

Local clock offset: 1.235 ms

Remote clock offset: 2.552 ms

# Below is generated by plot.py at 2019-08-27 09:25:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.660 ms

Loss rate: 0.00%

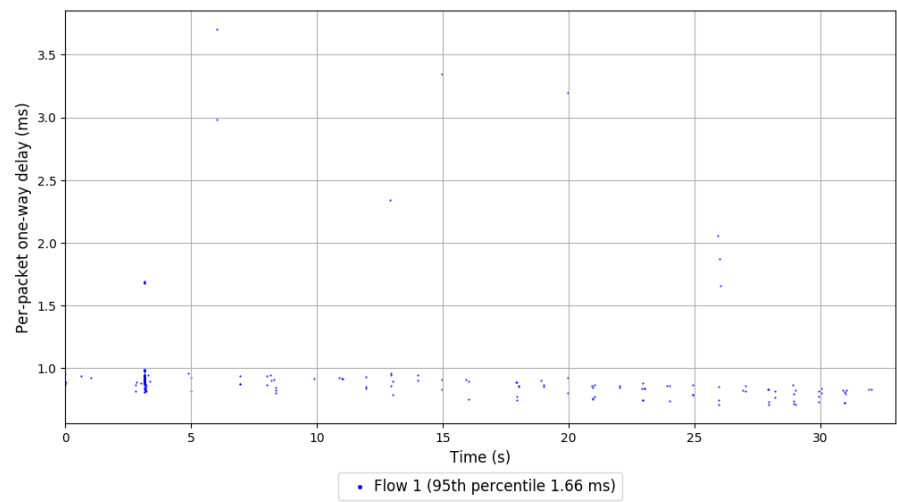
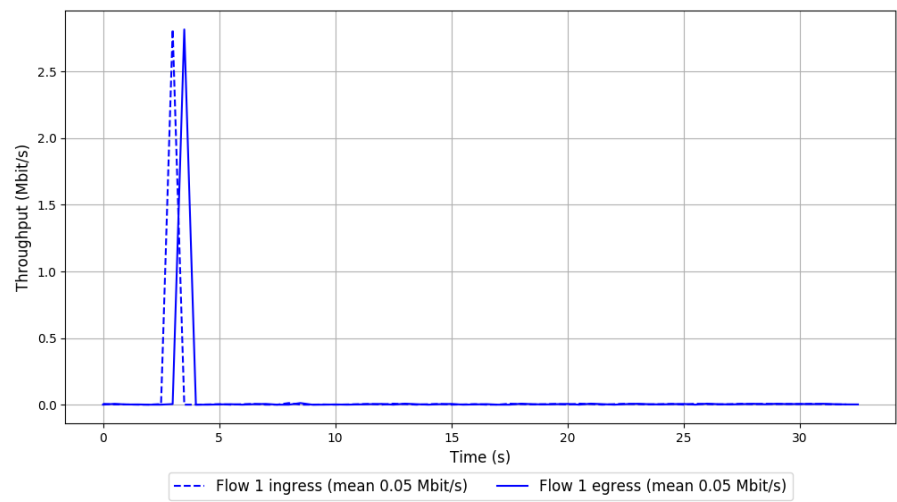
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.660 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-08-27 08:01:20

End at: 2019-08-27 08:01:50

Local clock offset: 1.14 ms

Remote clock offset: 0.818 ms

# Below is generated by plot.py at 2019-08-27 09:25:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.182 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.182 ms

Loss rate: 0.05%

Run 5: Report of WebRTC media — Data Link

