

## Pantheon Report

Generated at 2019-02-20 08:33:07 (UTC).

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

Repeated the test of 21 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

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

### System info:

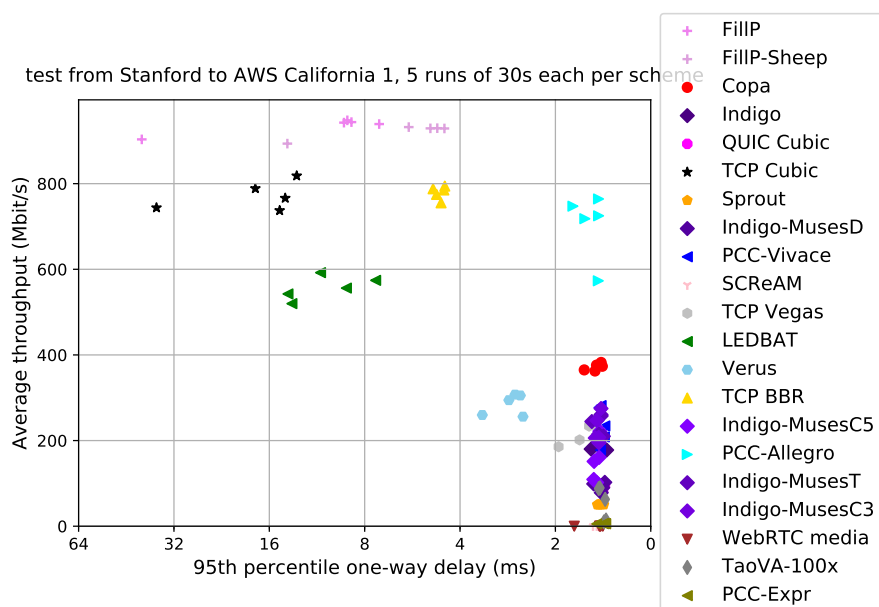
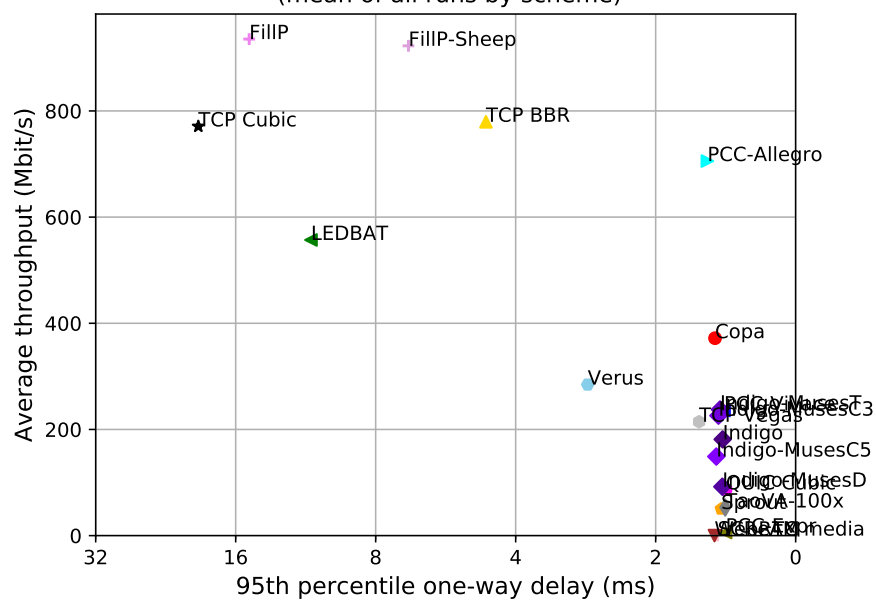
```
Linux 4.15.0-1031-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 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      | 779.54                           | 4.63                                | 0.02                         |
| Copa           | 5      | 371.92                           | 1.15                                | 0.01                         |
| TCP Cubic      | 5      | 770.85                           | 19.25                               | 0.03                         |
| FillP          | 5      | 935.35                           | 14.96                               | 0.13                         |
| FillP-Sheep    | 5      | 922.63                           | 6.80                                | 0.02                         |
| Indigo         | 5      | 181.32                           | 1.04                                | 0.01                         |
| Indigo-MusesC3 | 5      | 226.02                           | 1.10                                | 0.01                         |
| Indigo-MusesC5 | 5      | 148.97                           | 1.13                                | 0.00                         |
| Indigo-MusesD  | 5      | 92.13                            | 1.05                                | 0.00                         |
| Indigo-MusesT  | 5      | 237.51                           | 1.08                                | 0.01                         |
| LEDBAT         | 5      | 556.95                           | 11.02                               | 0.01                         |
| PCC-Allegro    | 5      | 705.56                           | 1.26                                | 0.01                         |
| PCC-Expr       | 5      | 5.83                             | 1.00                                | 0.01                         |
| QUIC Cubic     | 5      | 87.06                            | 1.00                                | 0.01                         |
| SCReAM         | 5      | 0.22                             | 1.11                                | 0.05                         |
| Sprout         | 5      | 50.24                            | 1.06                                | 0.01                         |
| TaoVA-100x     | 5      | 53.00                            | 1.01                                | 0.00                         |
| TCP Vegas      | 5      | 214.48                           | 1.38                                | 0.01                         |
| Verus          | 5      | 284.52                           | 2.80                                | 0.01                         |
| PCC-Vivace     | 5      | 235.82                           | 1.02                                | 0.01                         |
| WebRTC media   | 5      | 0.05                             | 1.16                                | 0.01                         |

Run 1: Statistics of TCP BBR

Start at: 2019-02-20 05:32:23

End at: 2019-02-20 05:32:53

Local clock offset: 0.174 ms

Remote clock offset: 0.525 ms

# Below is generated by plot.py at 2019-02-20 07:46:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 755.20 Mbit/s

95th percentile per-packet one-way delay: 4.591 ms

Loss rate: 0.02%

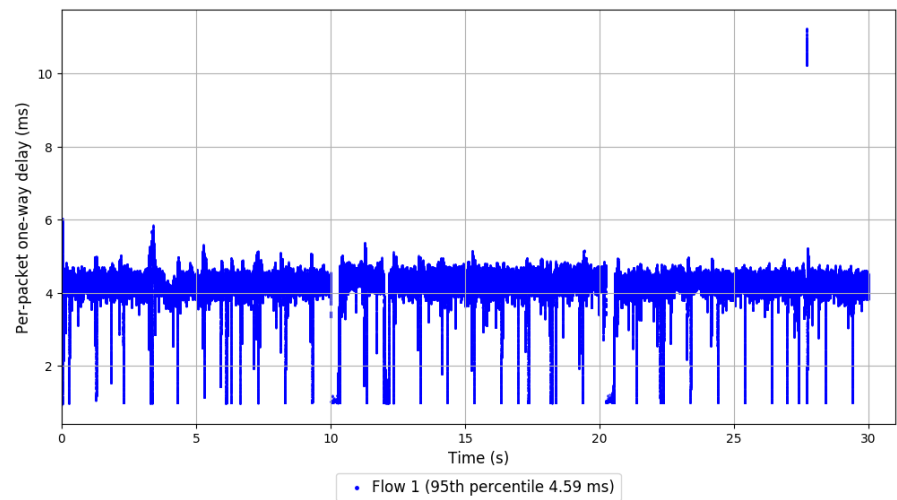
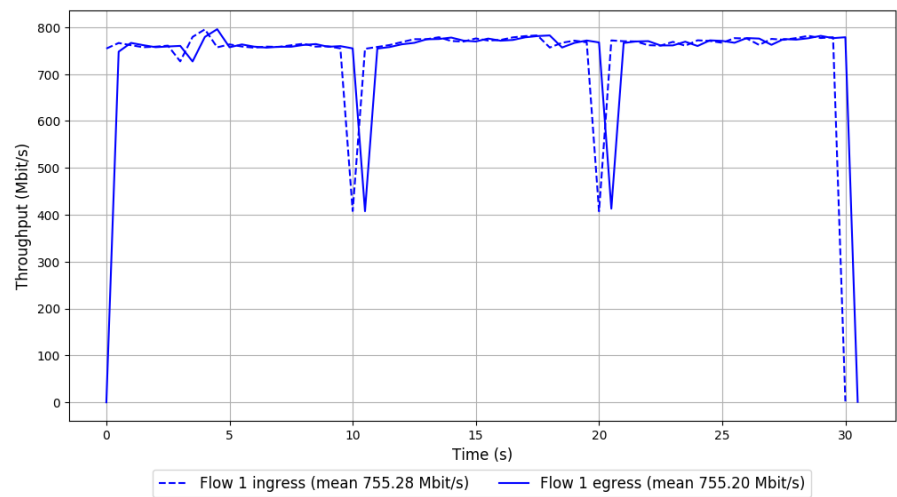
-- Flow 1:

Average throughput: 755.20 Mbit/s

95th percentile per-packet one-way delay: 4.591 ms

Loss rate: 0.02%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-02-20 06:01:40

End at: 2019-02-20 06:02:10

Local clock offset: 0.25 ms

Remote clock offset: 0.419 ms

# Below is generated by plot.py at 2019-02-20 07:46:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 794.32 Mbit/s

95th percentile per-packet one-way delay: 4.469 ms

Loss rate: 0.02%

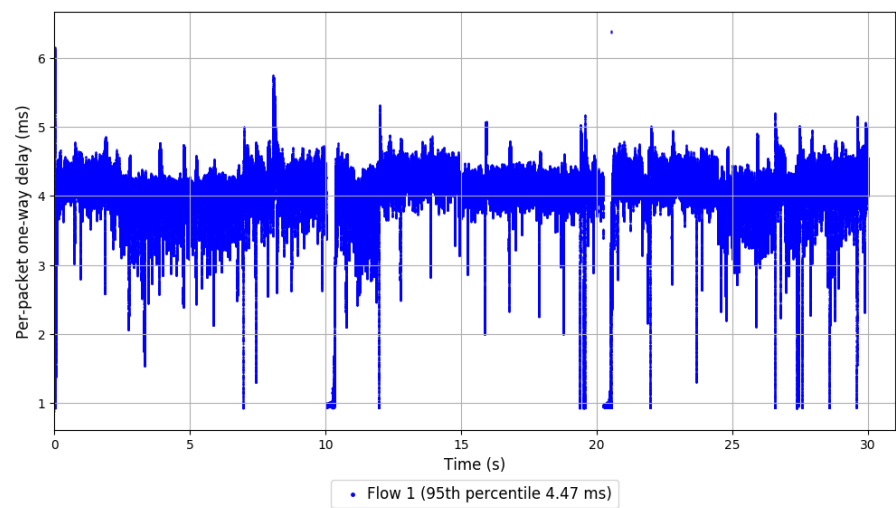
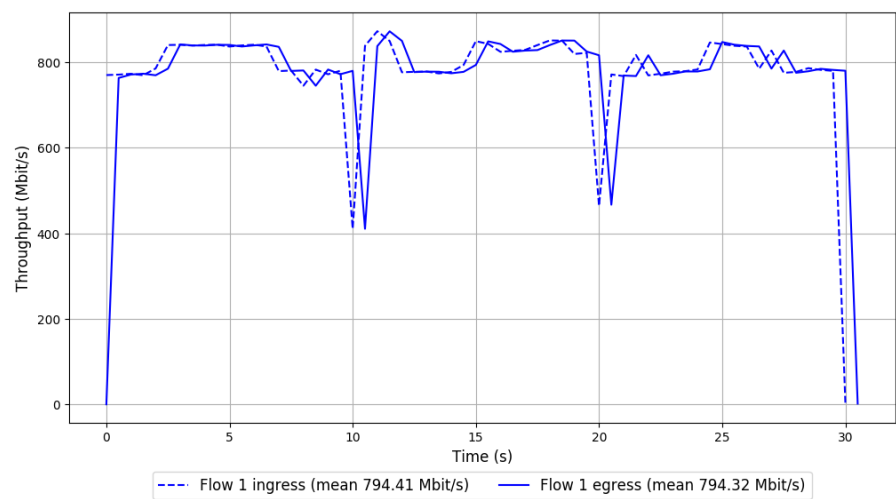
-- Flow 1:

Average throughput: 794.32 Mbit/s

95th percentile per-packet one-way delay: 4.469 ms

Loss rate: 0.02%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-02-20 06:31:04

End at: 2019-02-20 06:31:34

Local clock offset: 0.17 ms

Remote clock offset: 0.153 ms

# Below is generated by plot.py at 2019-02-20 07:46:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 785.28 Mbit/s

95th percentile per-packet one-way delay: 4.499 ms

Loss rate: 0.02%

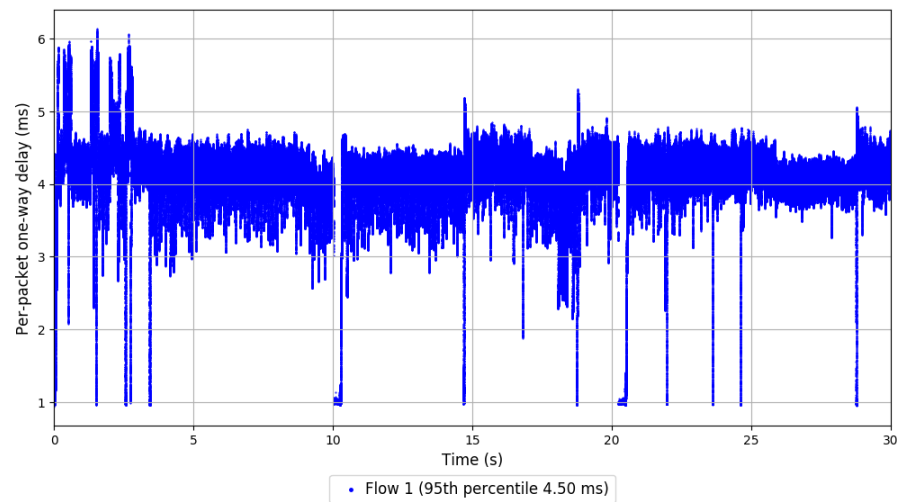
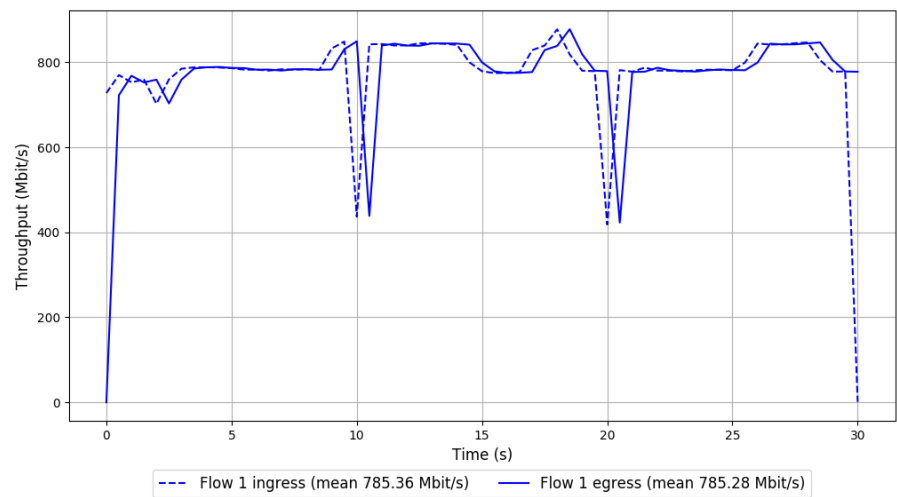
-- Flow 1:

Average throughput: 785.28 Mbit/s

95th percentile per-packet one-way delay: 4.499 ms

Loss rate: 0.02%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-02-20 07:00:24

End at: 2019-02-20 07:00:54

Local clock offset: 0.137 ms

Remote clock offset: 0.141 ms

# Below is generated by plot.py at 2019-02-20 07:46:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 788.00 Mbit/s

95th percentile per-packet one-way delay: 4.866 ms

Loss rate: 0.02%

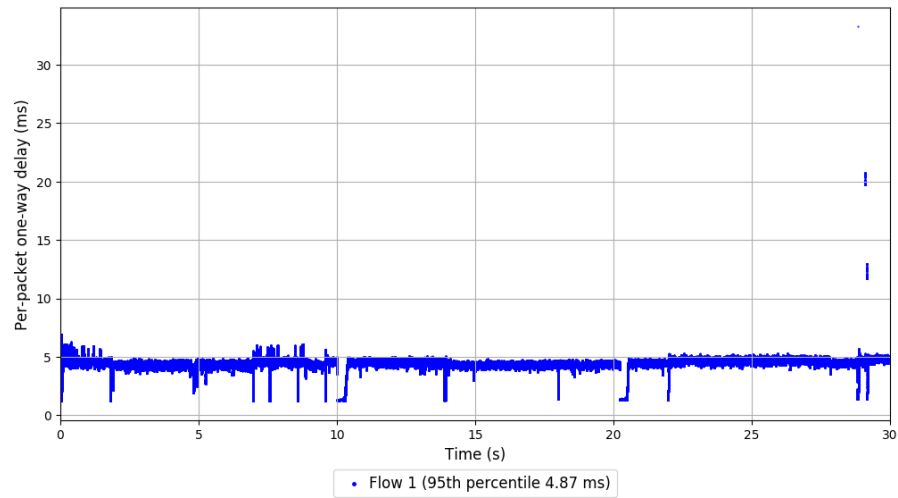
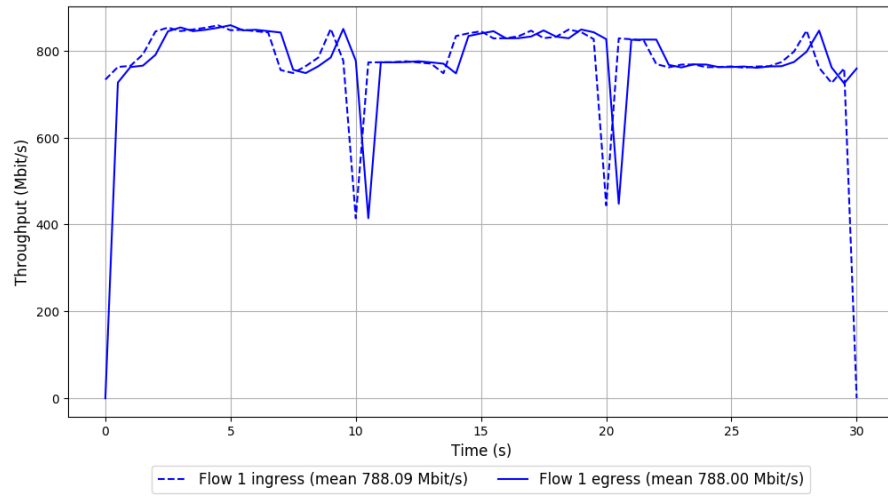
-- Flow 1:

Average throughput: 788.00 Mbit/s

95th percentile per-packet one-way delay: 4.866 ms

Loss rate: 0.02%

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



Run 5: Statistics of TCP BBR

Start at: 2019-02-20 07:29:53

End at: 2019-02-20 07:30:23

Local clock offset: -4.038 ms

Remote clock offset: 0.055 ms

# Below is generated by plot.py at 2019-02-20 07:46:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 774.89 Mbit/s

95th percentile per-packet one-way delay: 4.744 ms

Loss rate: 0.02%

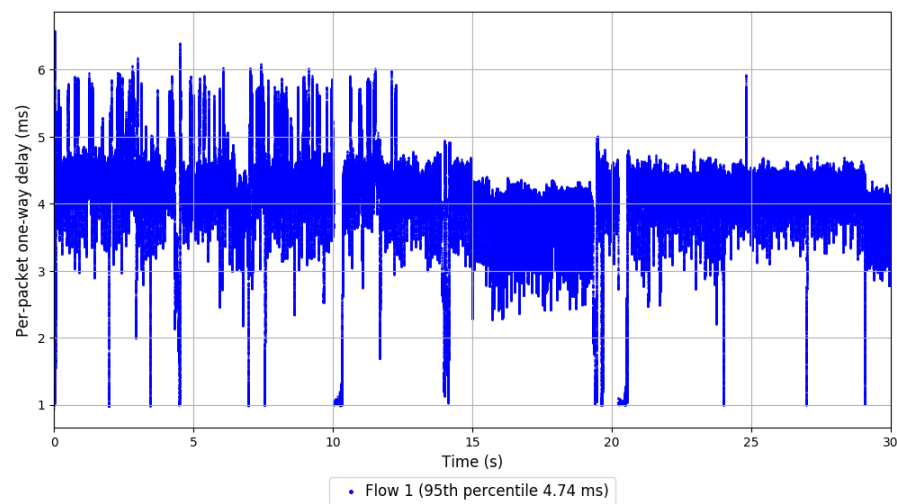
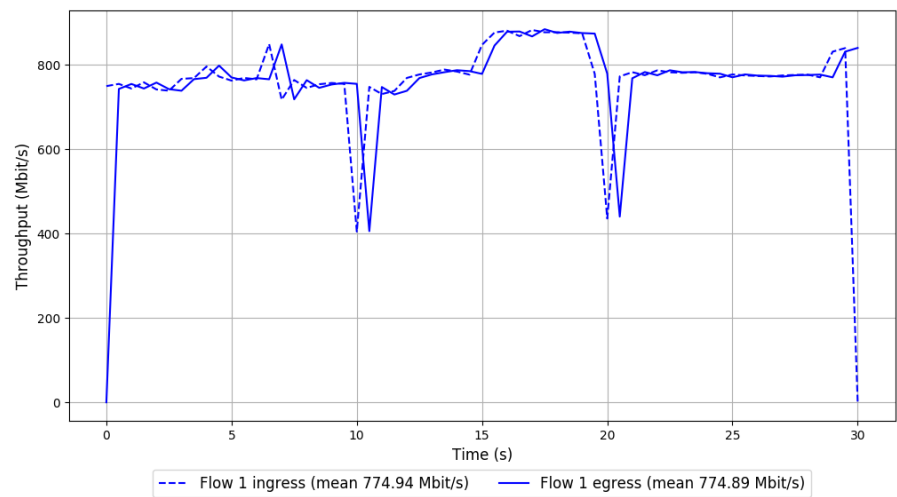
-- Flow 1:

Average throughput: 774.89 Mbit/s

95th percentile per-packet one-way delay: 4.744 ms

Loss rate: 0.02%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-02-20 05:25:15

End at: 2019-02-20 05:25:45

Local clock offset: 0.284 ms

Remote clock offset: 0.473 ms

# Below is generated by plot.py at 2019-02-20 07:46:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 362.45 Mbit/s

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

Loss rate: 0.01%

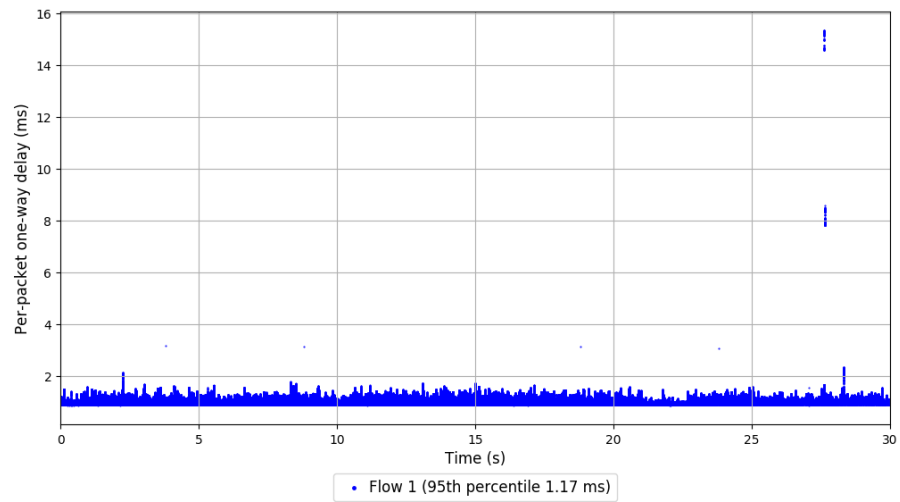
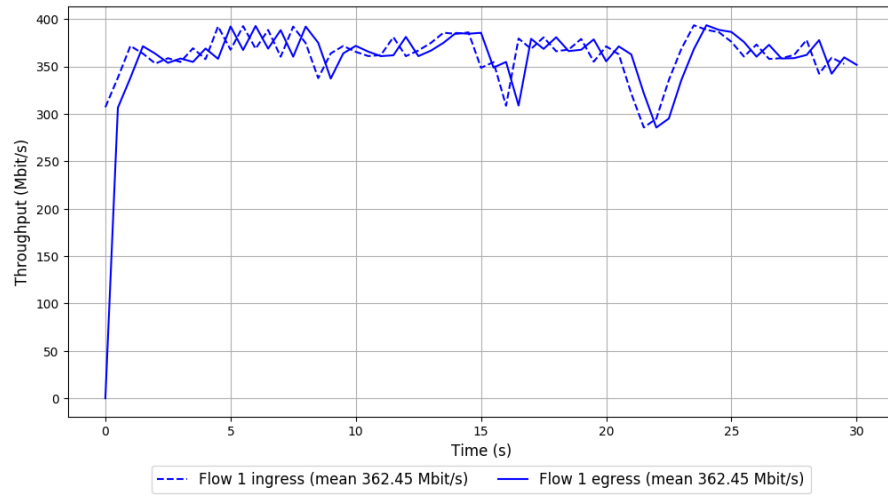
-- Flow 1:

Average throughput: 362.45 Mbit/s

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

Loss rate: 0.01%

## Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-02-20 05:54:34

End at: 2019-02-20 05:55:04

Local clock offset: 0.264 ms

Remote clock offset: 0.362 ms

# Below is generated by plot.py at 2019-02-20 07:46:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 376.14 Mbit/s

95th percentile per-packet one-way delay: 1.138 ms

Loss rate: 0.01%

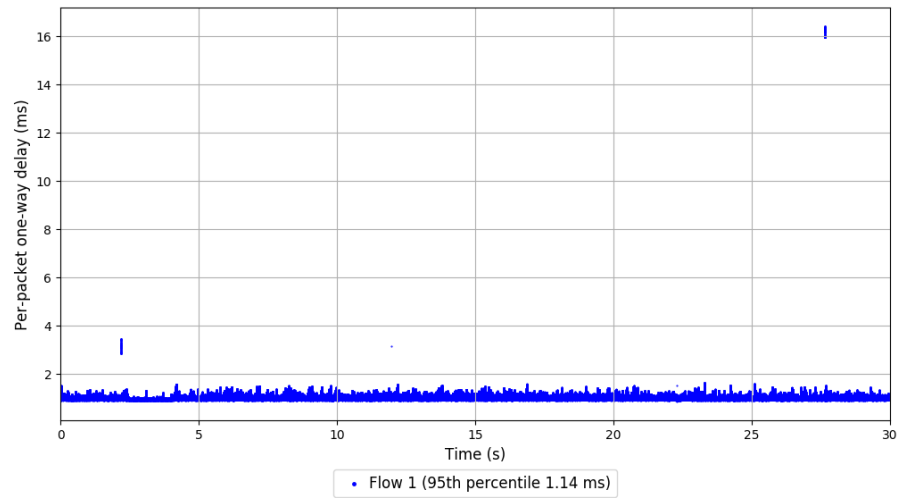
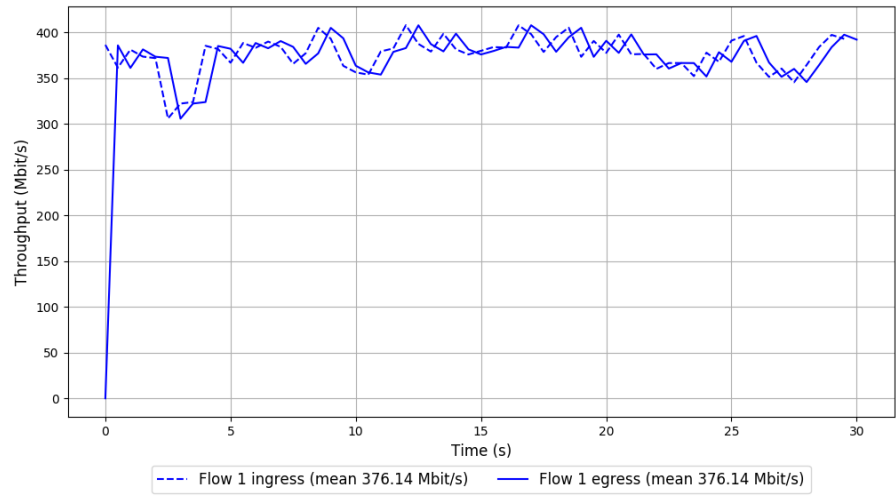
-- Flow 1:

Average throughput: 376.14 Mbit/s

95th percentile per-packet one-way delay: 1.138 ms

Loss rate: 0.01%

## Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-02-20 06:23:56

End at: 2019-02-20 06:24:26

Local clock offset: 0.115 ms

Remote clock offset: 0.253 ms

# Below is generated by plot.py at 2019-02-20 07:46:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 382.43 Mbit/s

95th percentile per-packet one-way delay: 1.041 ms

Loss rate: 0.01%

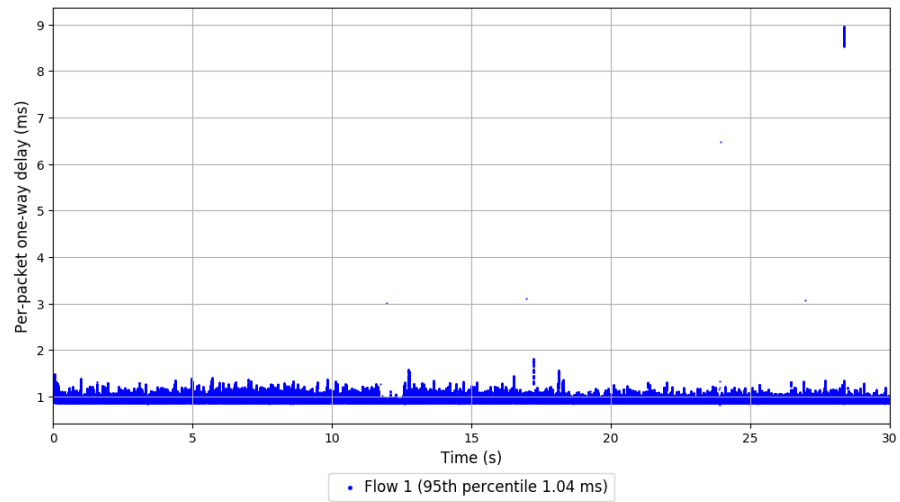
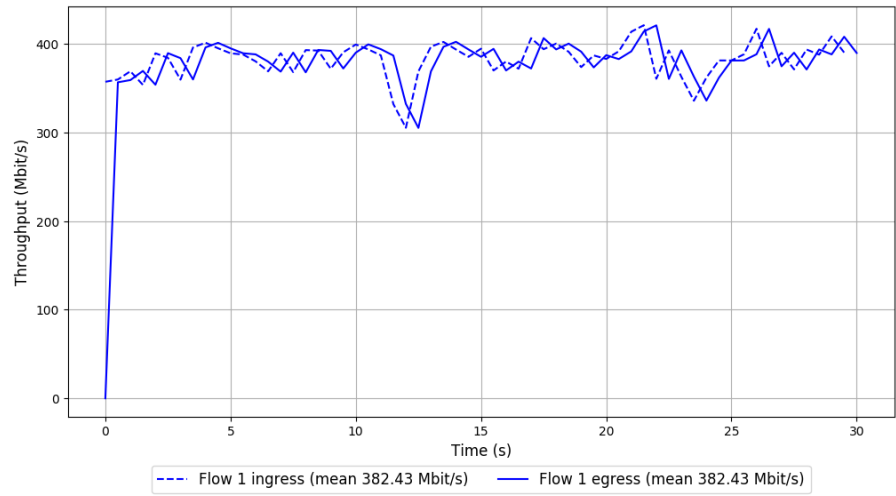
-- Flow 1:

Average throughput: 382.43 Mbit/s

95th percentile per-packet one-way delay: 1.041 ms

Loss rate: 0.01%

### Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-02-20 06:53:15

End at: 2019-02-20 06:53:45

Local clock offset: 0.214 ms

Remote clock offset: 0.259 ms

# Below is generated by plot.py at 2019-02-20 07:53:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 373.55 Mbit/s

95th percentile per-packet one-way delay: 1.016 ms

Loss rate: 0.00%

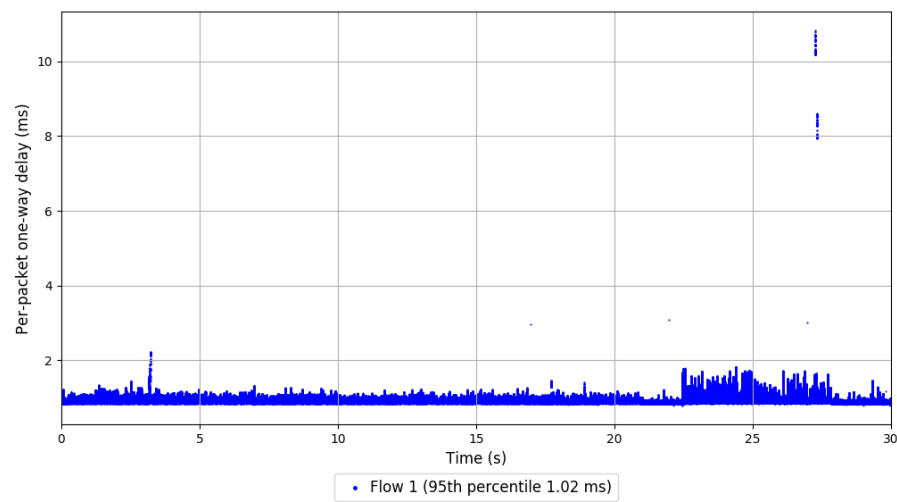
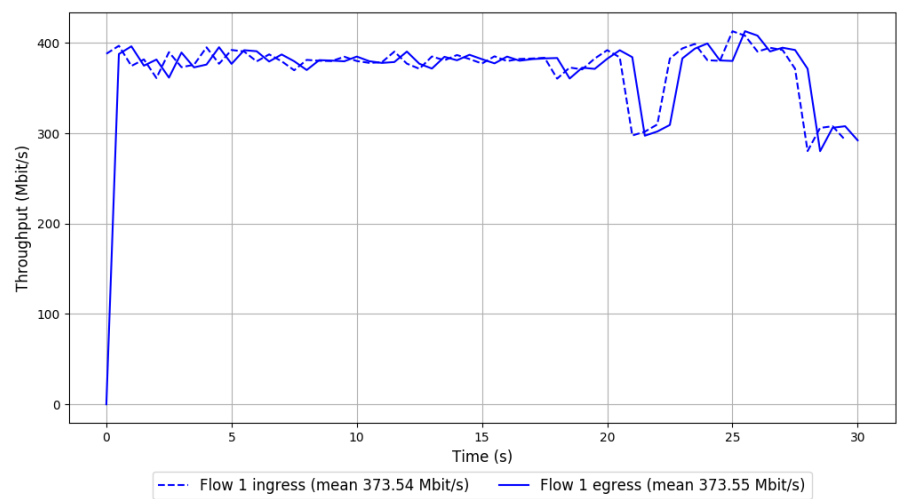
-- Flow 1:

Average throughput: 373.55 Mbit/s

95th percentile per-packet one-way delay: 1.016 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-02-20 07:22:42

End at: 2019-02-20 07:23:12

Local clock offset: -3.571 ms

Remote clock offset: 0.155 ms

# Below is generated by plot.py at 2019-02-20 07:54:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 365.02 Mbit/s

95th percentile per-packet one-way delay: 1.395 ms

Loss rate: 0.01%

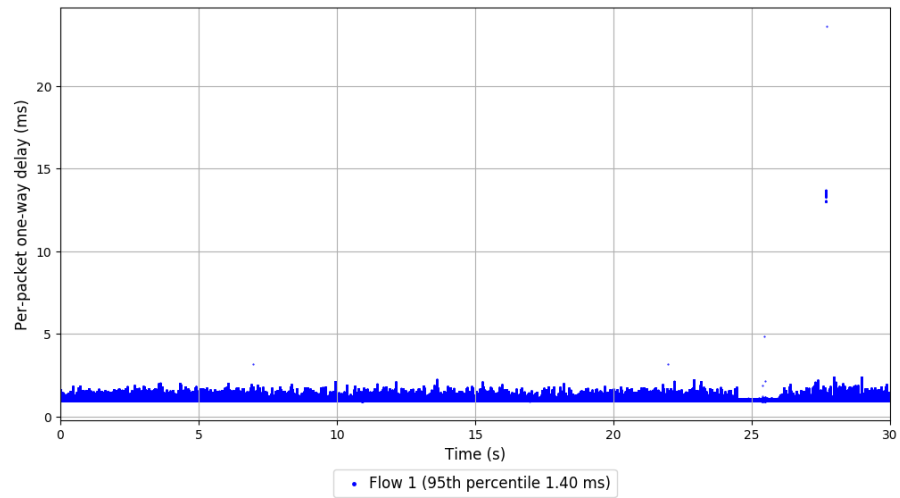
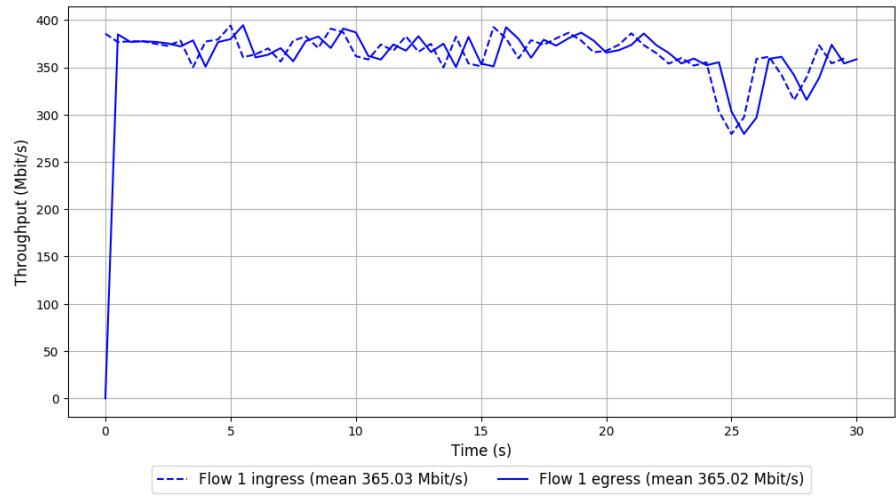
-- Flow 1:

Average throughput: 365.02 Mbit/s

95th percentile per-packet one-way delay: 1.395 ms

Loss rate: 0.01%

### Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-02-20 05:26:50

End at: 2019-02-20 05:27:21

Local clock offset: 0.224 ms

Remote clock offset: 0.476 ms

# Below is generated by plot.py at 2019-02-20 07:54:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 788.64 Mbit/s

95th percentile per-packet one-way delay: 17.709 ms

Loss rate: 0.04%

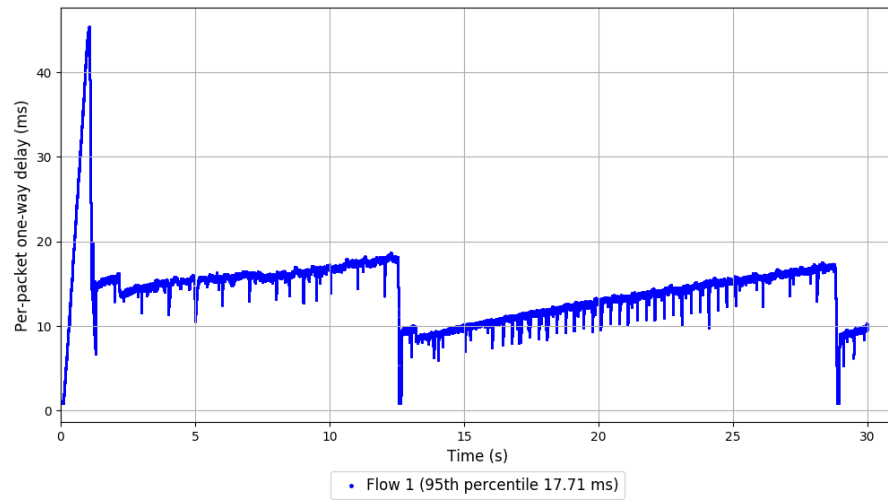
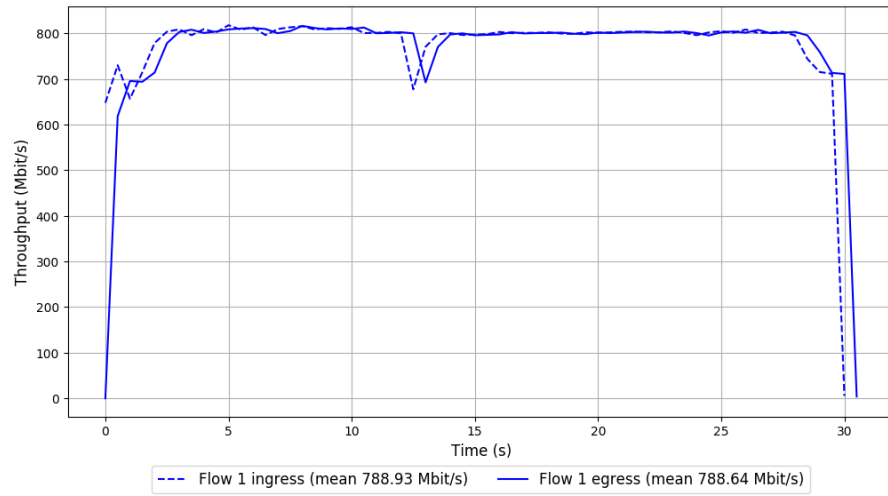
-- Flow 1:

Average throughput: 788.64 Mbit/s

95th percentile per-packet one-way delay: 17.709 ms

Loss rate: 0.04%

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



Run 2: Statistics of TCP Cubic

Start at: 2019-02-20 05:56:10

End at: 2019-02-20 05:56:40

Local clock offset: 0.243 ms

Remote clock offset: 0.416 ms

# Below is generated by plot.py at 2019-02-20 07:55:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 818.35 Mbit/s

95th percentile per-packet one-way delay: 13.114 ms

Loss rate: 0.03%

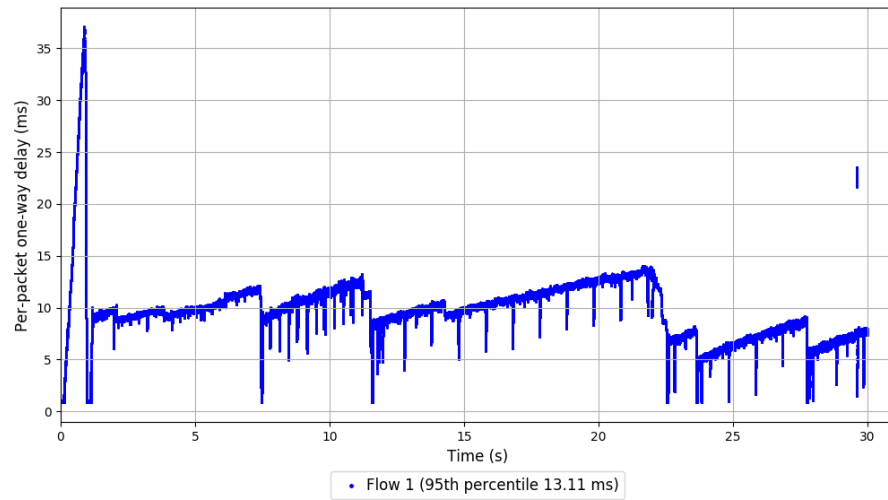
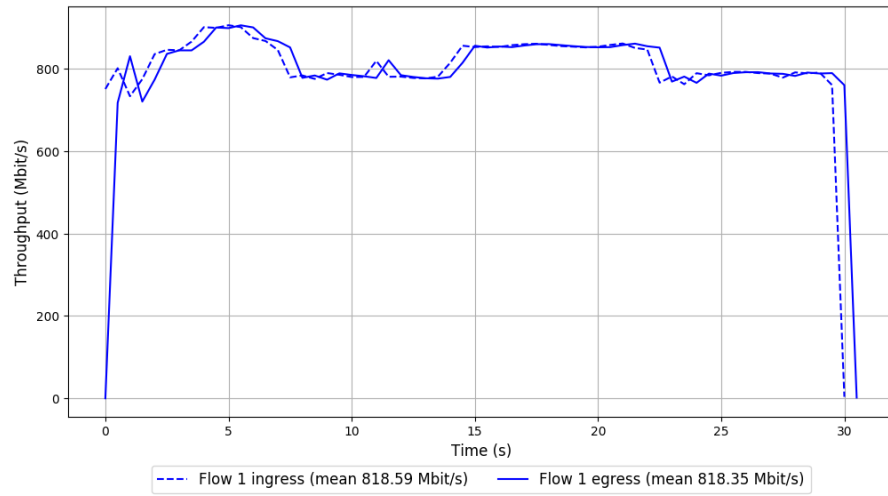
-- Flow 1:

Average throughput: 818.35 Mbit/s

95th percentile per-packet one-way delay: 13.114 ms

Loss rate: 0.03%

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



Run 3: Statistics of TCP Cubic

Start at: 2019-02-20 06:25:32

End at: 2019-02-20 06:26:02

Local clock offset: 0.132 ms

Remote clock offset: 0.145 ms

# Below is generated by plot.py at 2019-02-20 07:55:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 766.17 Mbit/s

95th percentile per-packet one-way delay: 14.252 ms

Loss rate: 0.04%

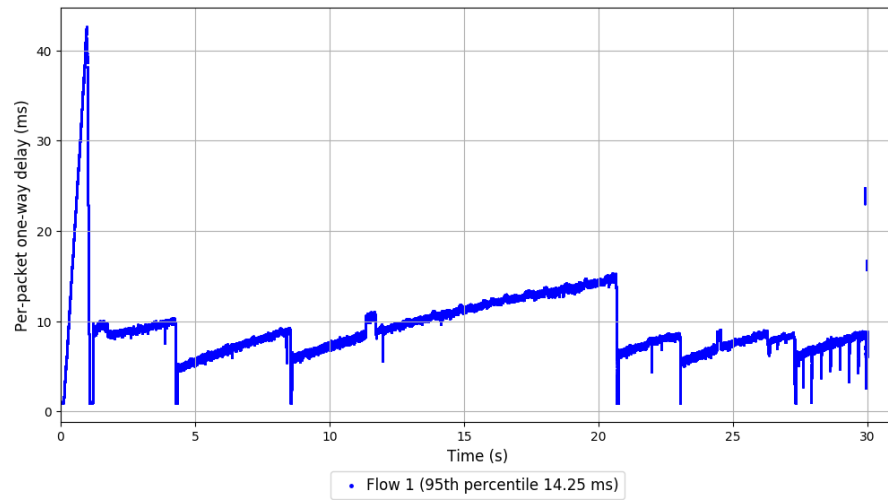
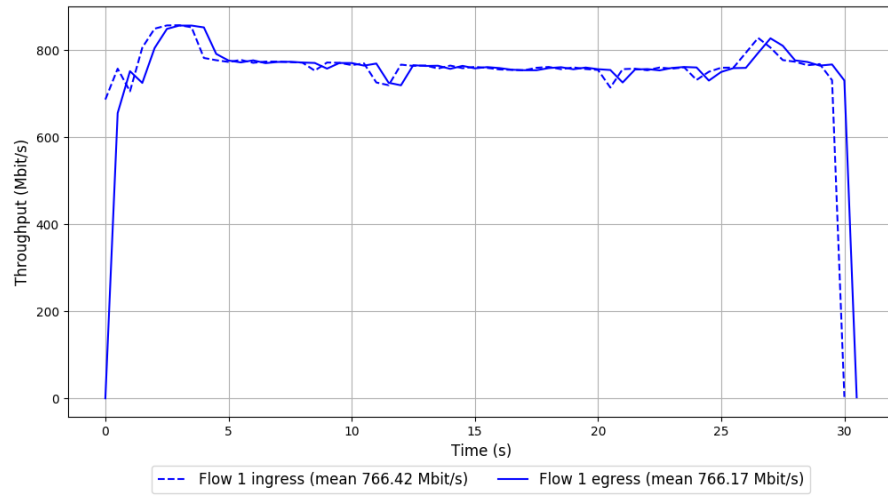
-- Flow 1:

Average throughput: 766.17 Mbit/s

95th percentile per-packet one-way delay: 14.252 ms

Loss rate: 0.04%

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



Run 4: Statistics of TCP Cubic

Start at: 2019-02-20 06:54:52

End at: 2019-02-20 06:55:22

Local clock offset: 0.24 ms

Remote clock offset: 0.192 ms

# Below is generated by plot.py at 2019-02-20 07:55:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 737.31 Mbit/s

95th percentile per-packet one-way delay: 14.842 ms

Loss rate: 0.03%

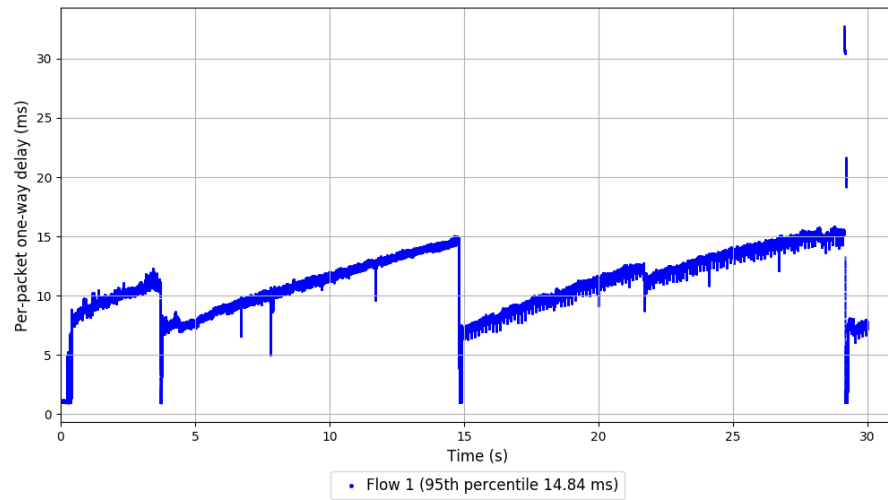
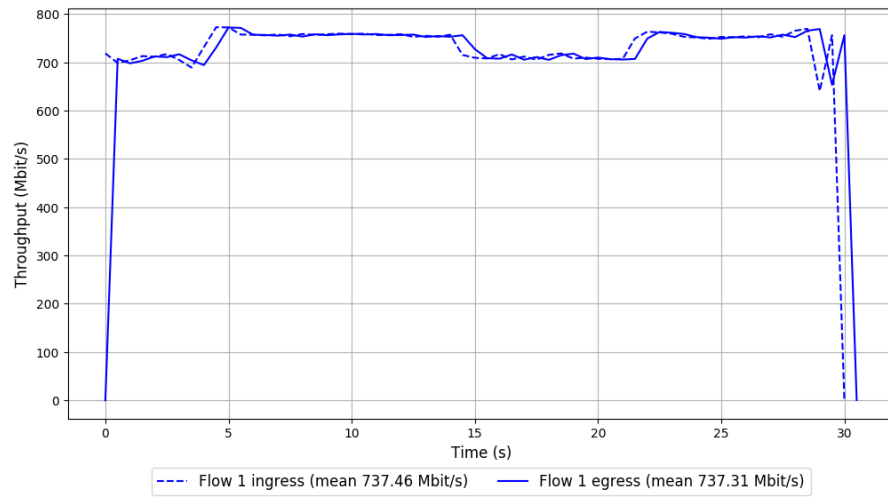
-- Flow 1:

Average throughput: 737.31 Mbit/s

95th percentile per-packet one-way delay: 14.842 ms

Loss rate: 0.03%

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



Run 5: Statistics of TCP Cubic

Start at: 2019-02-20 07:24:17

End at: 2019-02-20 07:24:47

Local clock offset: -3.711 ms

Remote clock offset: 0.167 ms

# Below is generated by plot.py at 2019-02-20 07:55:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 743.78 Mbit/s

95th percentile per-packet one-way delay: 36.335 ms

Loss rate: 0.03%

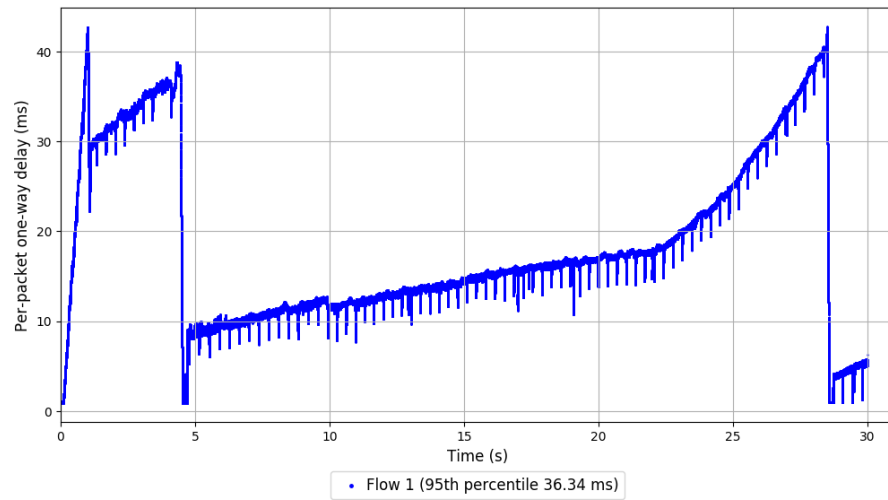
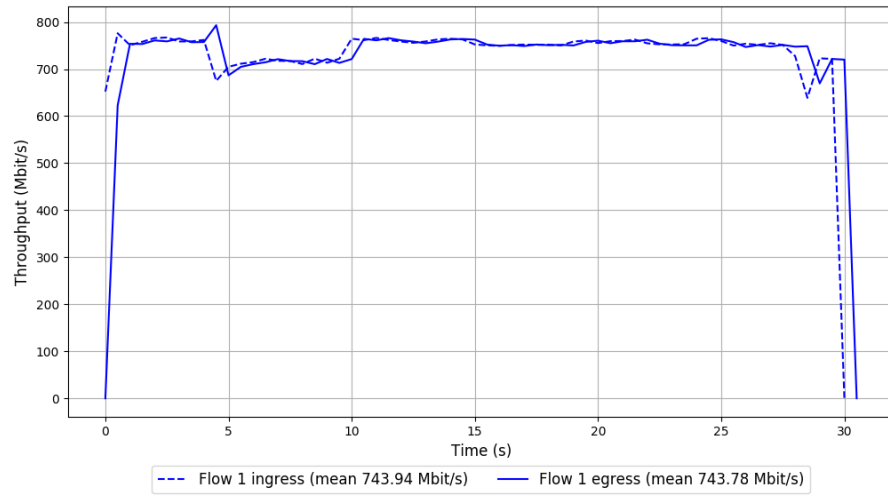
-- Flow 1:

Average throughput: 743.78 Mbit/s

95th percentile per-packet one-way delay: 36.335 ms

Loss rate: 0.03%

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



Run 1: Statistics of FillP

Start at: 2019-02-20 05:04:33

End at: 2019-02-20 05:05:03

Local clock offset: 0.405 ms

Remote clock offset: -0.451 ms

# Below is generated by plot.py at 2019-02-20 07:59:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 947.89 Mbit/s

95th percentile per-packet one-way delay: 9.075 ms

Loss rate: 0.01%

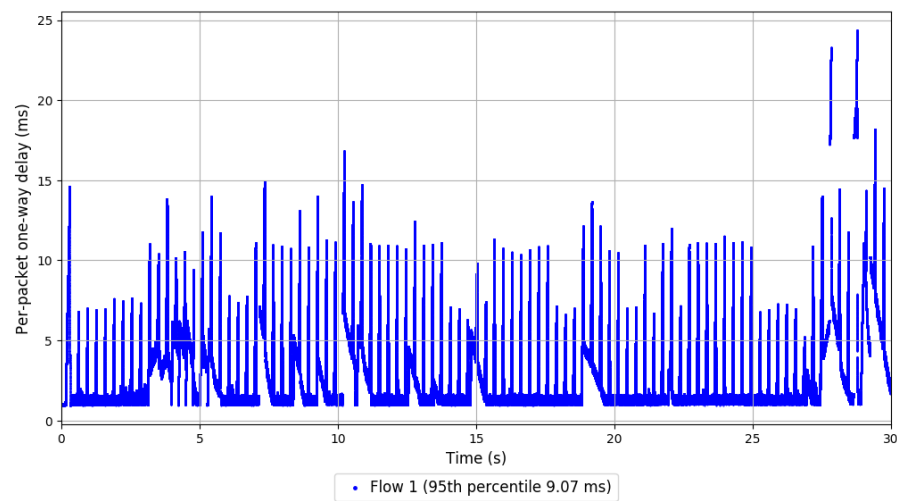
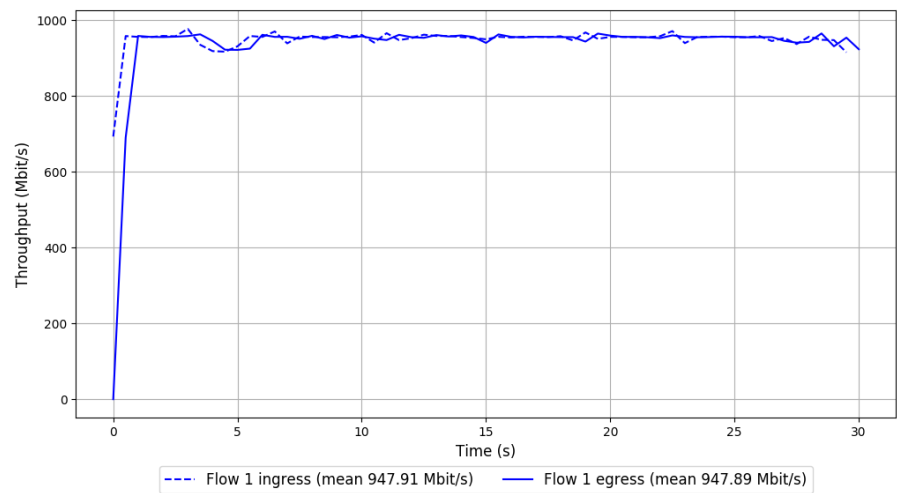
-- Flow 1:

Average throughput: 947.89 Mbit/s

95th percentile per-packet one-way delay: 9.075 ms

Loss rate: 0.01%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-02-20 05:34:00

End at: 2019-02-20 05:34:30

Local clock offset: 0.18 ms

Remote clock offset: 0.607 ms

# Below is generated by plot.py at 2019-02-20 08:06:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 903.40 Mbit/s

95th percentile per-packet one-way delay: 40.433 ms

Loss rate: 0.55%

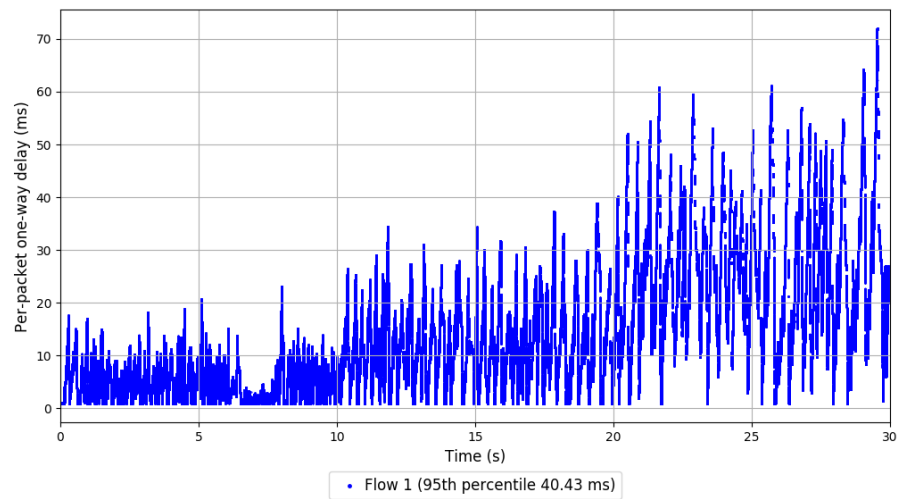
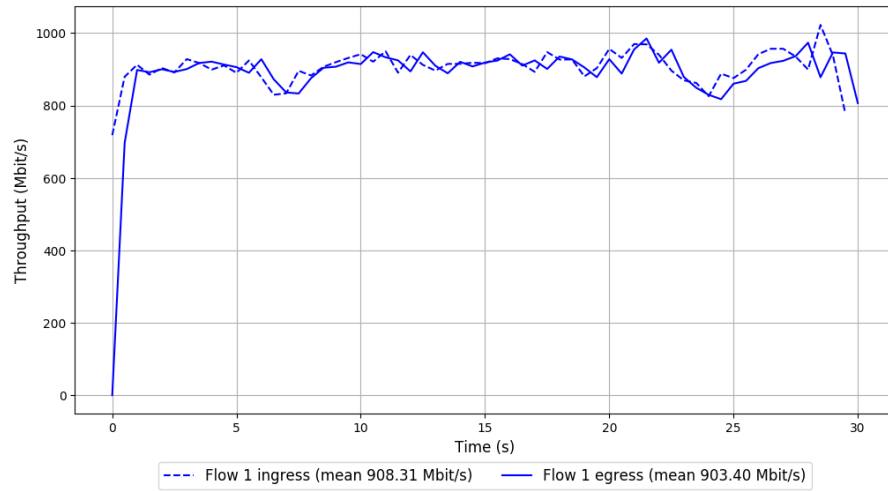
-- Flow 1:

Average throughput: 903.40 Mbit/s

95th percentile per-packet one-way delay: 40.433 ms

Loss rate: 0.55%

## Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-02-20 06:03:19

End at: 2019-02-20 06:03:49

Local clock offset: 0.222 ms

Remote clock offset: 0.373 ms

# Below is generated by plot.py at 2019-02-20 08:06:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 942.53 Mbit/s

95th percentile per-packet one-way delay: 9.300 ms

Loss rate: 0.05%

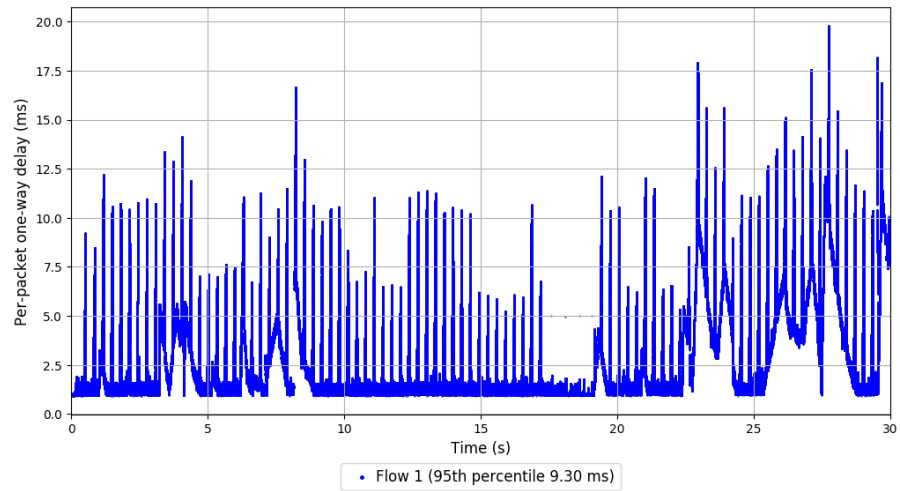
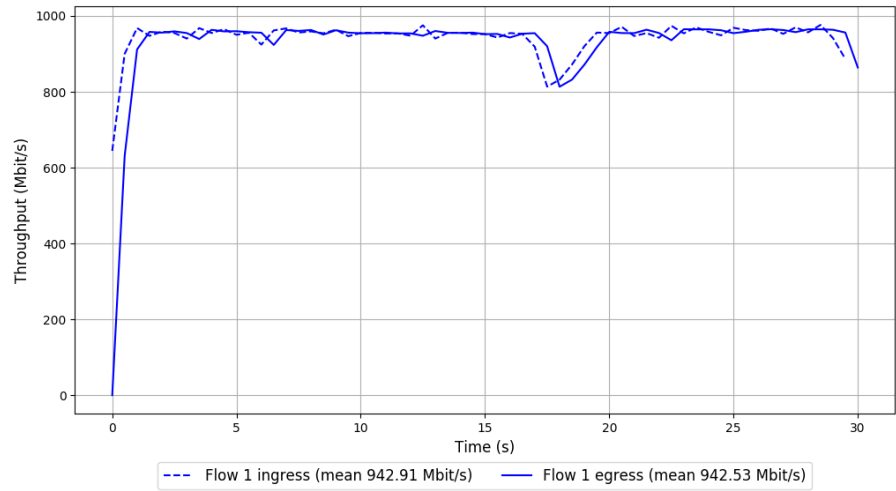
-- Flow 1:

Average throughput: 942.53 Mbit/s

95th percentile per-packet one-way delay: 9.300 ms

Loss rate: 0.05%

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



Run 4: Statistics of FillP

Start at: 2019-02-20 06:32:42

End at: 2019-02-20 06:33:12

Local clock offset: 0.181 ms

Remote clock offset: 0.21 ms

# Below is generated by plot.py at 2019-02-20 08:07:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 943.74 Mbit/s

95th percentile per-packet one-way delay: 8.808 ms

Loss rate: 0.01%

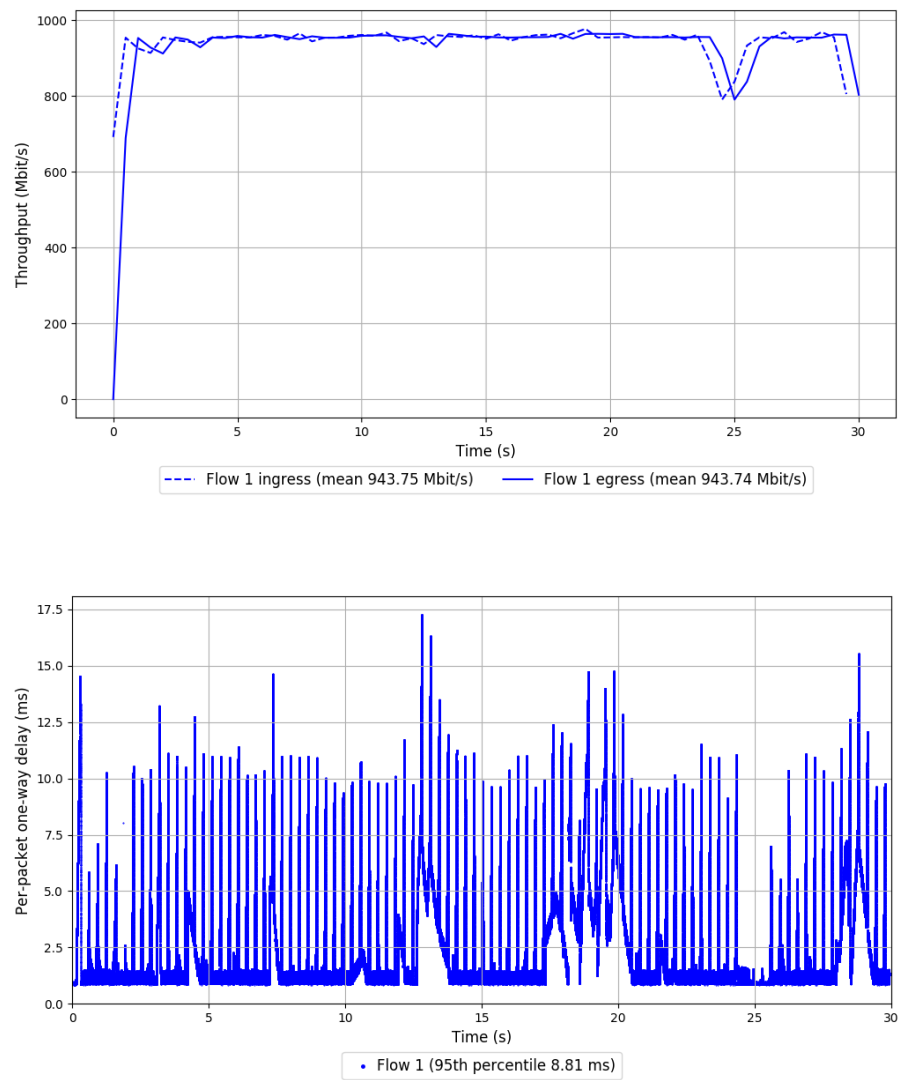
-- Flow 1:

Average throughput: 943.74 Mbit/s

95th percentile per-packet one-way delay: 8.808 ms

Loss rate: 0.01%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-02-20 07:02:02

End at: 2019-02-20 07:02:32

Local clock offset: -0.465 ms

Remote clock offset: 0.138 ms

# Below is generated by plot.py at 2019-02-20 08:07:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 939.17 Mbit/s

95th percentile per-packet one-way delay: 7.199 ms

Loss rate: 0.01%

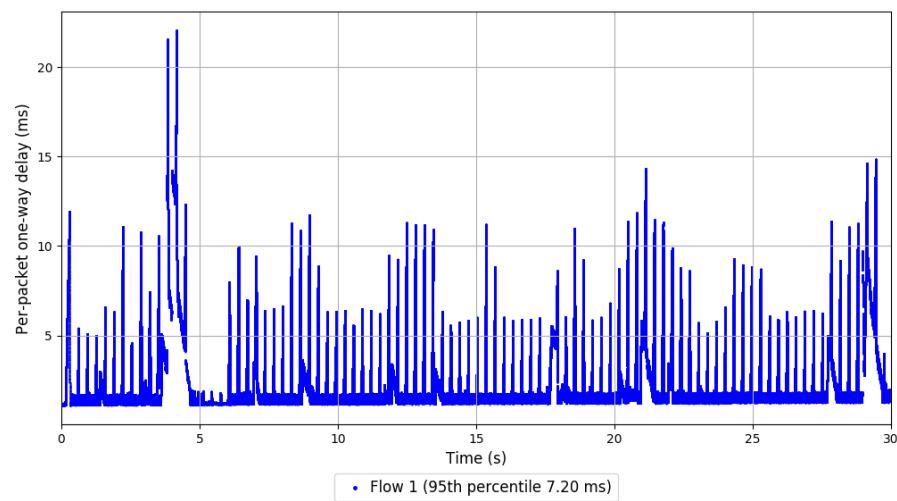
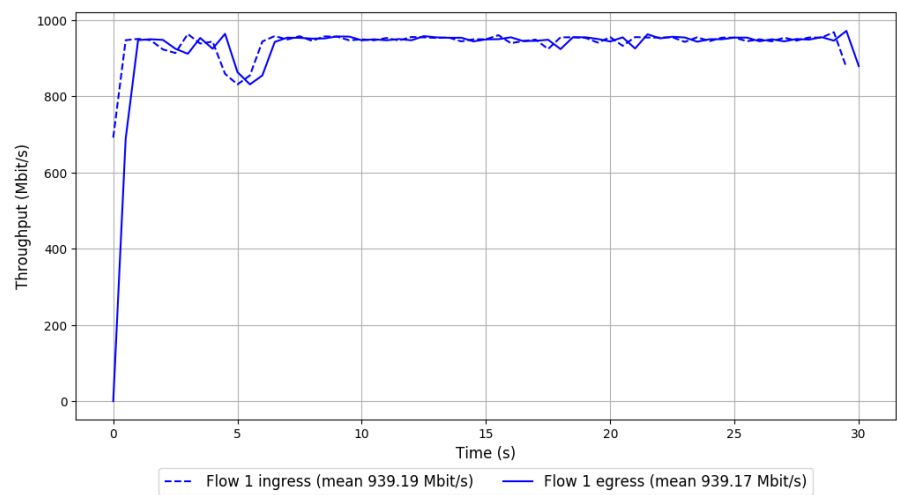
-- Flow 1:

Average throughput: 939.17 Mbit/s

95th percentile per-packet one-way delay: 7.199 ms

Loss rate: 0.01%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-02-20 05:21:09

End at: 2019-02-20 05:21:39

Local clock offset: 0.303 ms

Remote clock offset: 0.244 ms

# Below is generated by plot.py at 2019-02-20 08:07:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 928.88 Mbit/s

95th percentile per-packet one-way delay: 4.481 ms

Loss rate: 0.01%

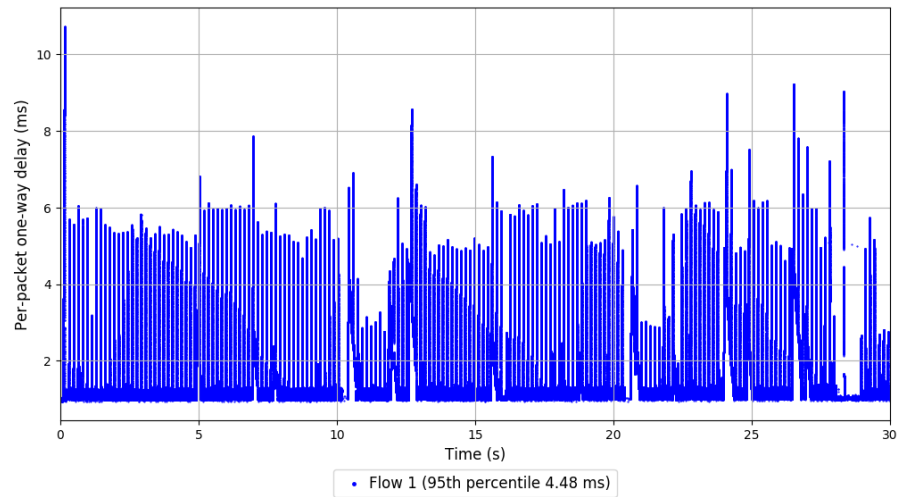
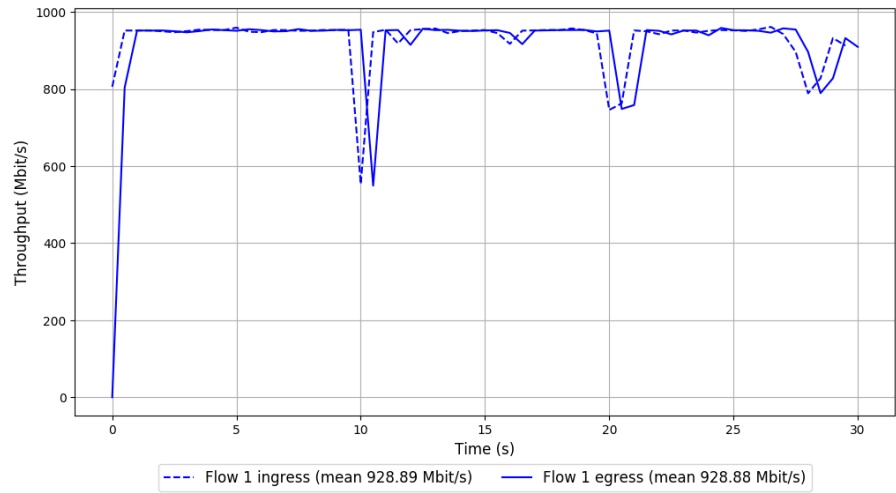
-- Flow 1:

Average throughput: 928.88 Mbit/s

95th percentile per-packet one-way delay: 4.481 ms

Loss rate: 0.01%

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



Run 2: Statistics of FillP-Sheep

Start at: 2019-02-20 05:50:29

End at: 2019-02-20 05:50:59

Local clock offset: 0.201 ms

Remote clock offset: 0.32 ms

# Below is generated by plot.py at 2019-02-20 08:07:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 893.50 Mbit/s

95th percentile per-packet one-way delay: 14.033 ms

Loss rate: 0.03%

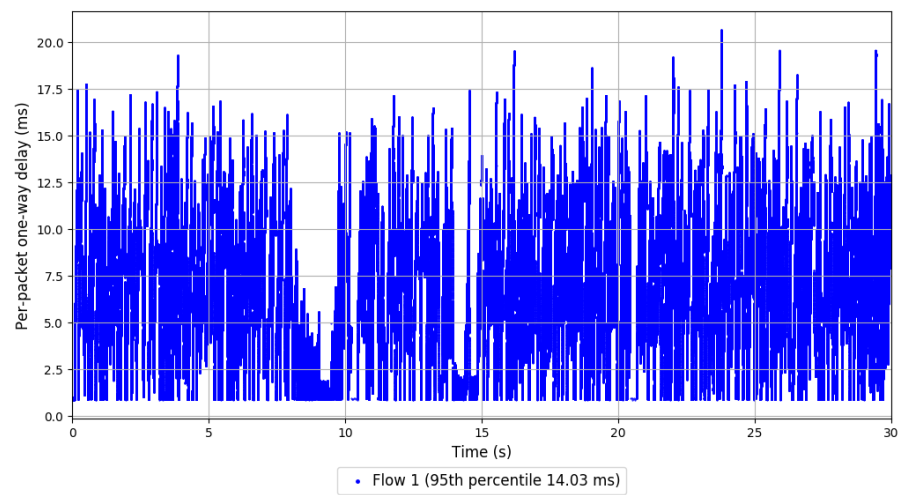
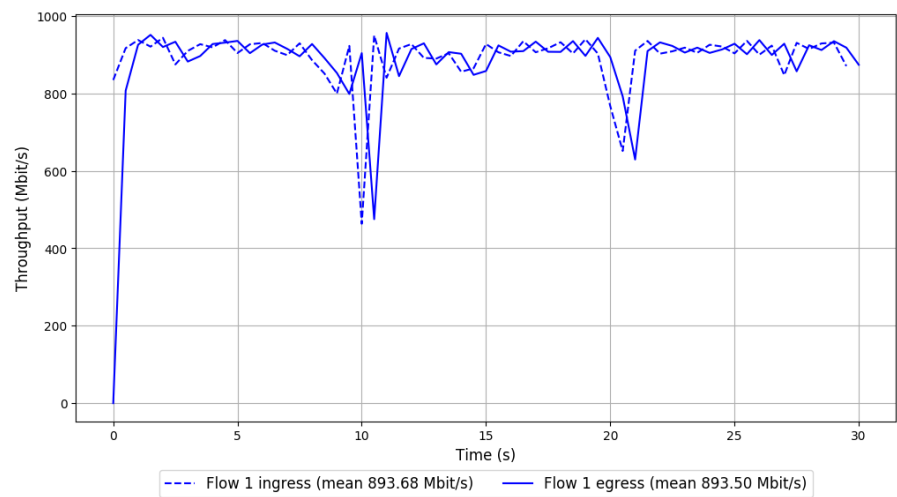
-- Flow 1:

Average throughput: 893.50 Mbit/s

95th percentile per-packet one-way delay: 14.033 ms

Loss rate: 0.03%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-02-20 06:19:49

End at: 2019-02-20 06:20:19

Local clock offset: 0.096 ms

Remote clock offset: 0.169 ms

# Below is generated by plot.py at 2019-02-20 08:08:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 932.09 Mbit/s

95th percentile per-packet one-way delay: 5.807 ms

Loss rate: 0.01%

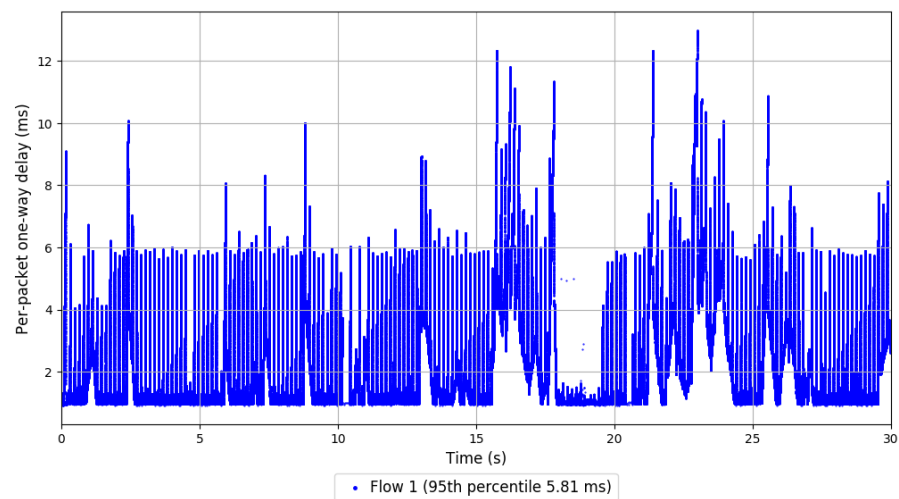
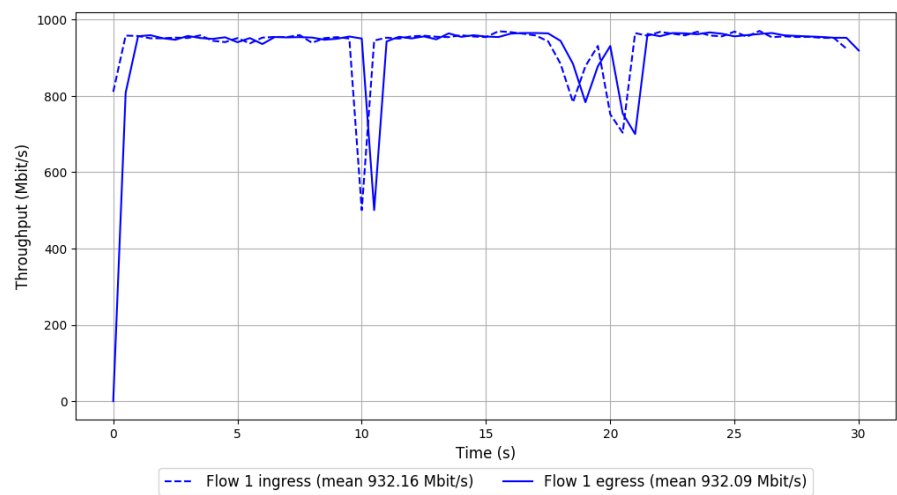
-- Flow 1:

Average throughput: 932.09 Mbit/s

95th percentile per-packet one-way delay: 5.807 ms

Loss rate: 0.01%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-02-20 06:49:09

End at: 2019-02-20 06:49:39

Local clock offset: 0.233 ms

Remote clock offset: 0.24 ms

# Below is generated by plot.py at 2019-02-20 08:13:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 929.12 Mbit/s

95th percentile per-packet one-way delay: 4.962 ms

Loss rate: 0.01%

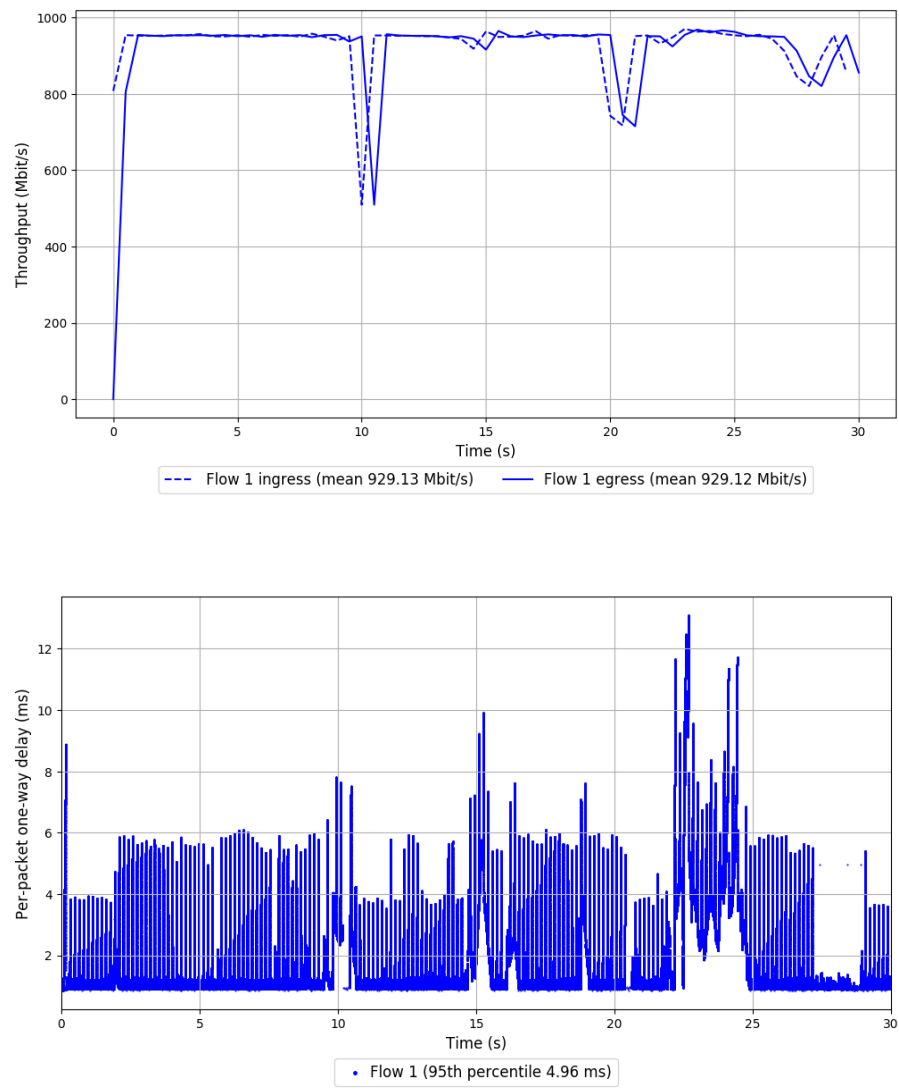
-- Flow 1:

Average throughput: 929.12 Mbit/s

95th percentile per-packet one-way delay: 4.962 ms

Loss rate: 0.01%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-02-20 07:18:35

End at: 2019-02-20 07:19:05

Local clock offset: -3.273 ms

Remote clock offset: 0.195 ms

# Below is generated by plot.py at 2019-02-20 08:19:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 929.57 Mbit/s

95th percentile per-packet one-way delay: 4.720 ms

Loss rate: 0.04%

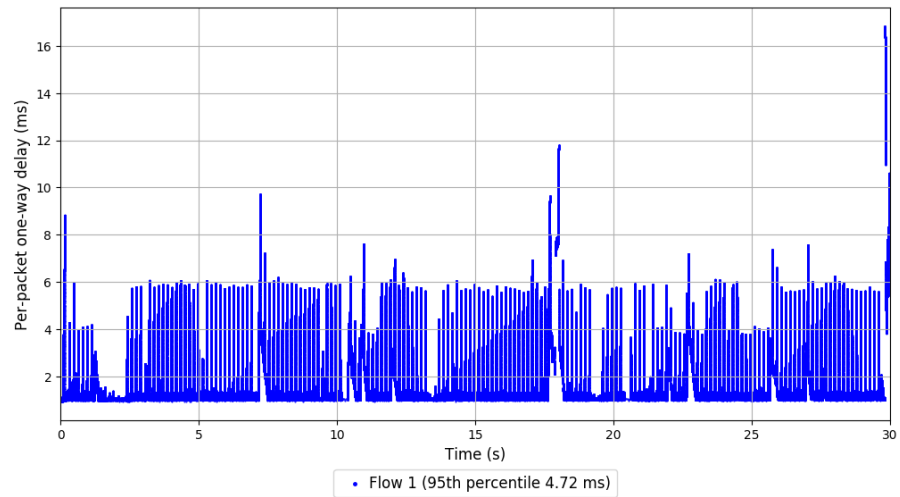
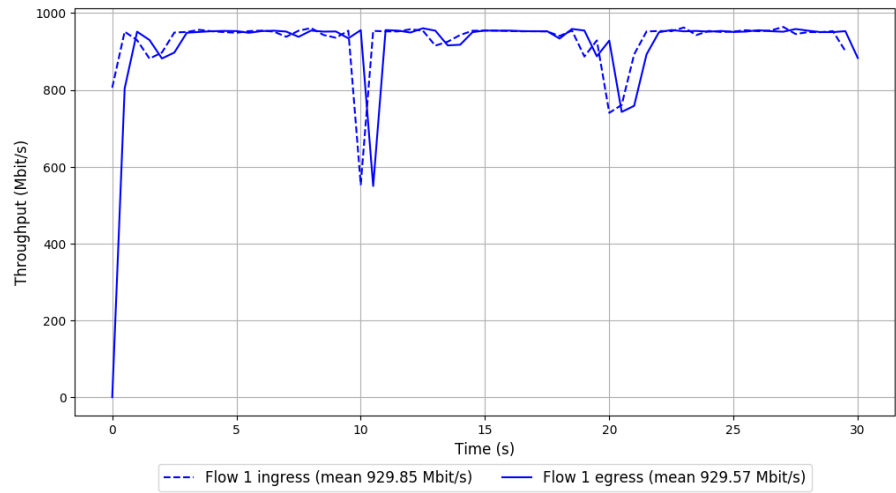
-- Flow 1:

Average throughput: 929.57 Mbit/s

95th percentile per-packet one-way delay: 4.720 ms

Loss rate: 0.04%

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

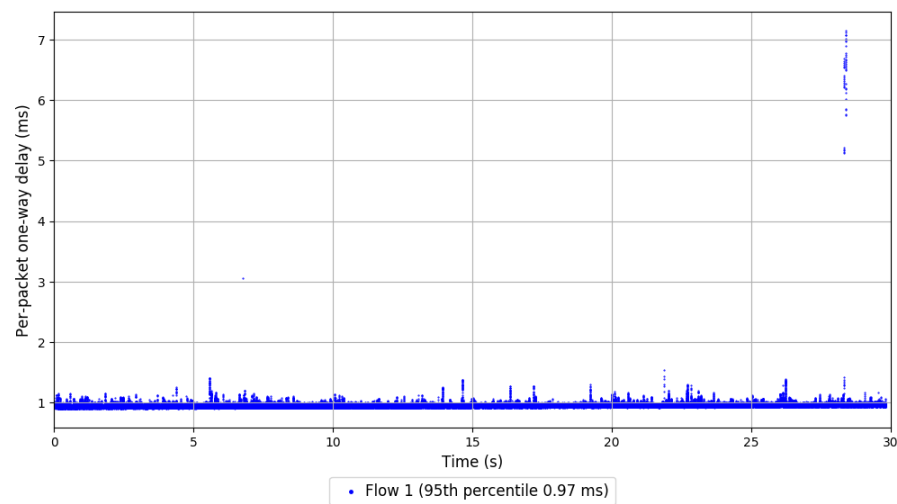
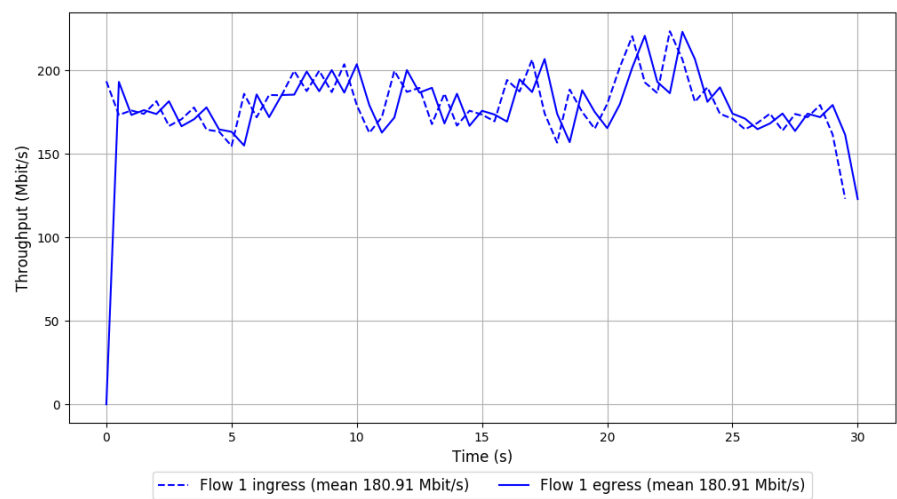


```
Run 1: Statistics of Indigo

Start at: 2019-02-20 05:06:11
End at: 2019-02-20 05:06:41
Local clock offset: 0.364 ms
Remote clock offset: -0.291 ms

# Below is generated by plot.py at 2019-02-20 08:19:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 180.91 Mbit/s
95th percentile per-packet one-way delay: 0.974 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 180.91 Mbit/s
95th percentile per-packet one-way delay: 0.974 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-02-20 05:35:37

End at: 2019-02-20 05:36:07

Local clock offset: 0.146 ms

Remote clock offset: 0.421 ms

# Below is generated by plot.py at 2019-02-20 08:19:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 183.64 Mbit/s

95th percentile per-packet one-way delay: 1.027 ms

Loss rate: 0.00%

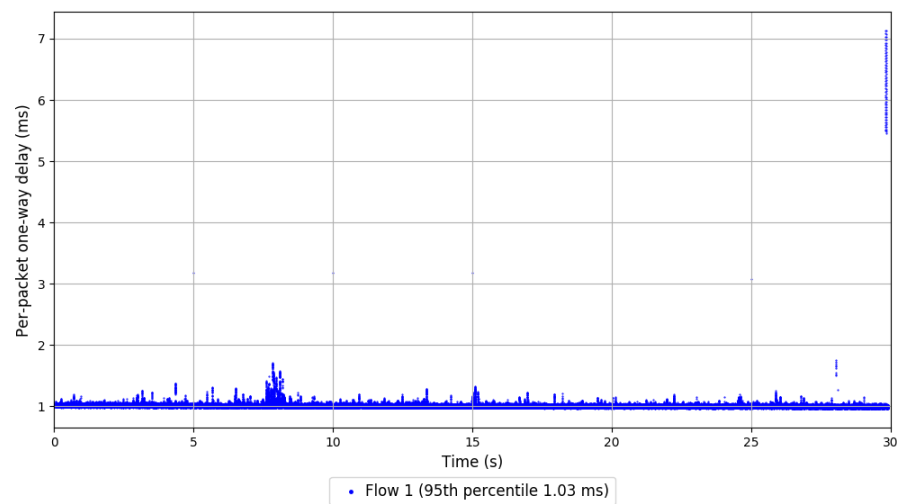
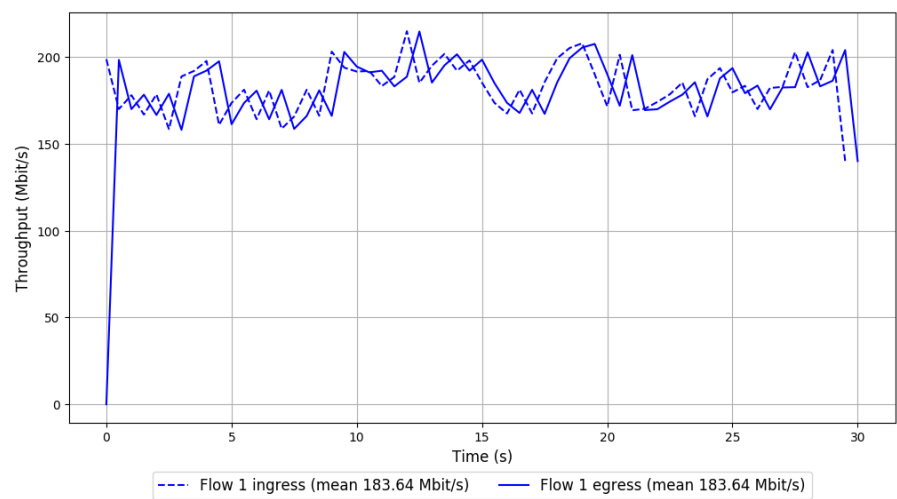
-- Flow 1:

Average throughput: 183.64 Mbit/s

95th percentile per-packet one-way delay: 1.027 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-02-20 06:04:57

End at: 2019-02-20 06:05:27

Local clock offset: 0.209 ms

Remote clock offset: 0.397 ms

# Below is generated by plot.py at 2019-02-20 08:19:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 183.94 Mbit/s

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

Loss rate: 0.01%

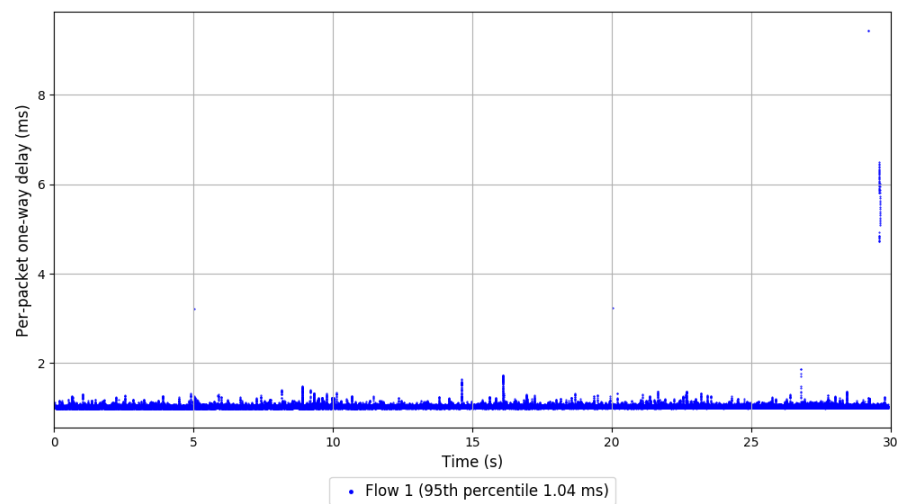
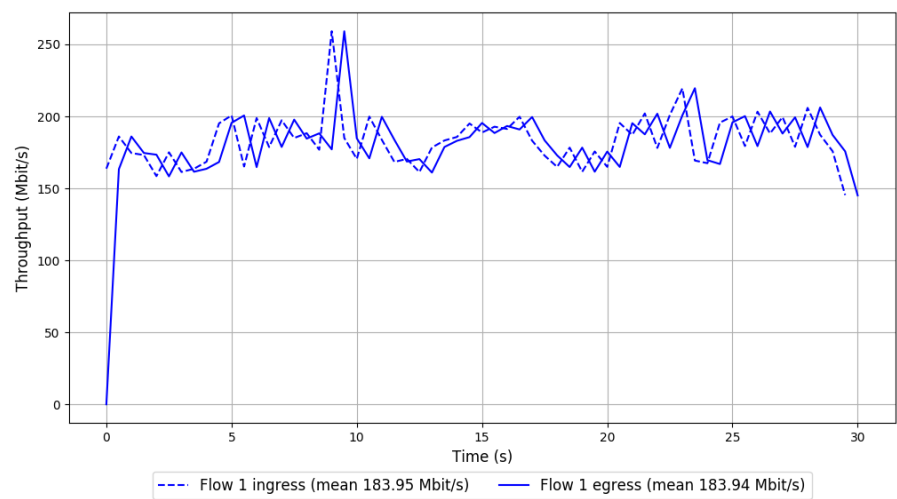
-- Flow 1:

Average throughput: 183.94 Mbit/s

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

Loss rate: 0.01%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-02-20 06:34:20

End at: 2019-02-20 06:34:50

Local clock offset: 0.184 ms

Remote clock offset: 0.24 ms

# Below is generated by plot.py at 2019-02-20 08:19:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 177.90 Mbit/s

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

Loss rate: 0.01%

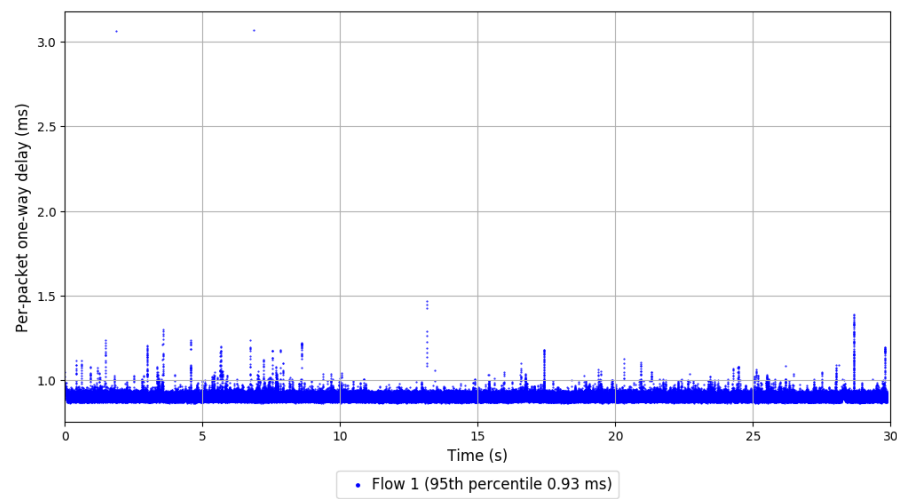
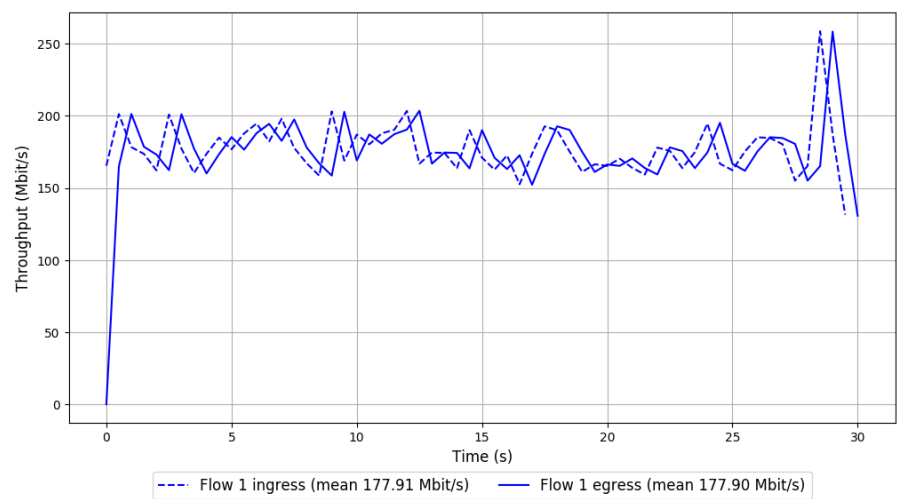
-- Flow 1:

Average throughput: 177.90 Mbit/s

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

Loss rate: 0.01%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-02-20 07:03:39

End at: 2019-02-20 07:04:10

Local clock offset: -0.925 ms

Remote clock offset: 0.203 ms

# Below is generated by plot.py at 2019-02-20 08:19:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 180.22 Mbit/s

95th percentile per-packet one-way delay: 1.250 ms

Loss rate: 0.01%

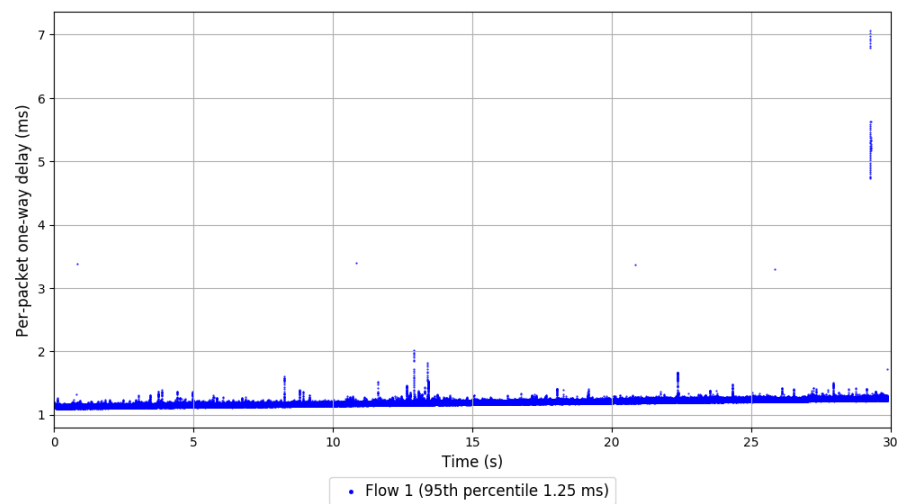
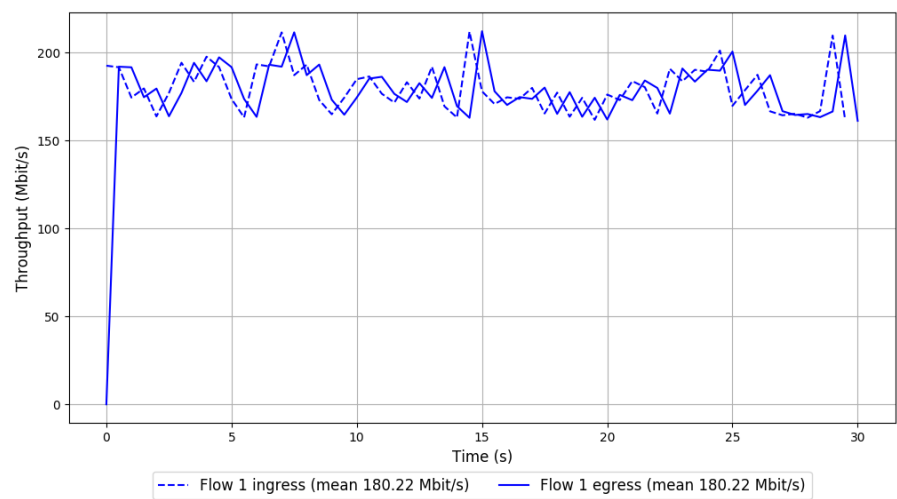
-- Flow 1:

Average throughput: 180.22 Mbit/s

95th percentile per-packet one-way delay: 1.250 ms

Loss rate: 0.01%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-02-20 05:10:24

End at: 2019-02-20 05:10:54

Local clock offset: 0.312 ms

Remote clock offset: -0.191 ms

# Below is generated by plot.py at 2019-02-20 08:19:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 246.95 Mbit/s

95th percentile per-packet one-way delay: 1.128 ms

Loss rate: 0.01%

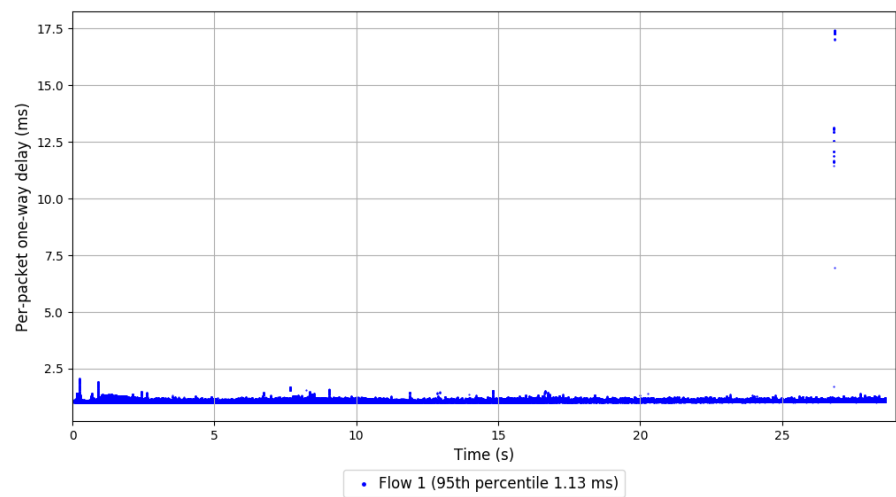
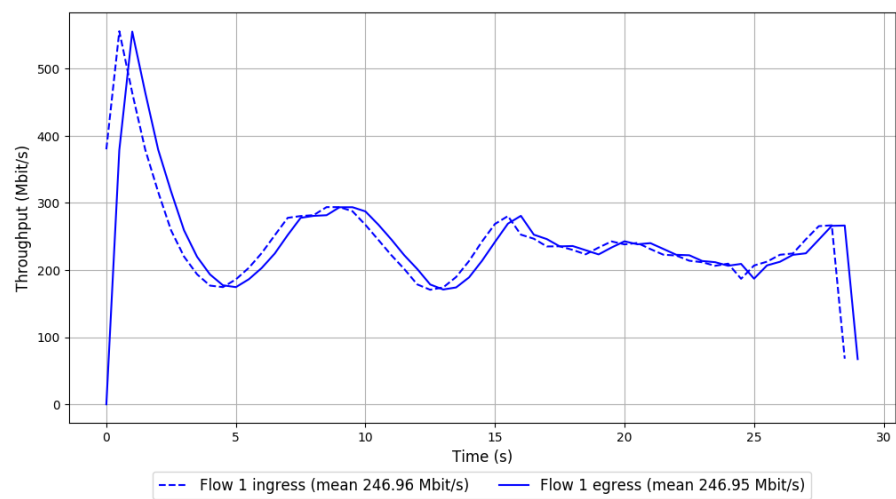
-- Flow 1:

Average throughput: 246.95 Mbit/s

95th percentile per-packet one-way delay: 1.128 ms

Loss rate: 0.01%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-02-20 05:39:49

End at: 2019-02-20 05:40:19

Local clock offset: 0.145 ms

Remote clock offset: 0.316 ms

# Below is generated by plot.py at 2019-02-20 08:19:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 194.92 Mbit/s

95th percentile per-packet one-way delay: 1.088 ms

Loss rate: 0.01%

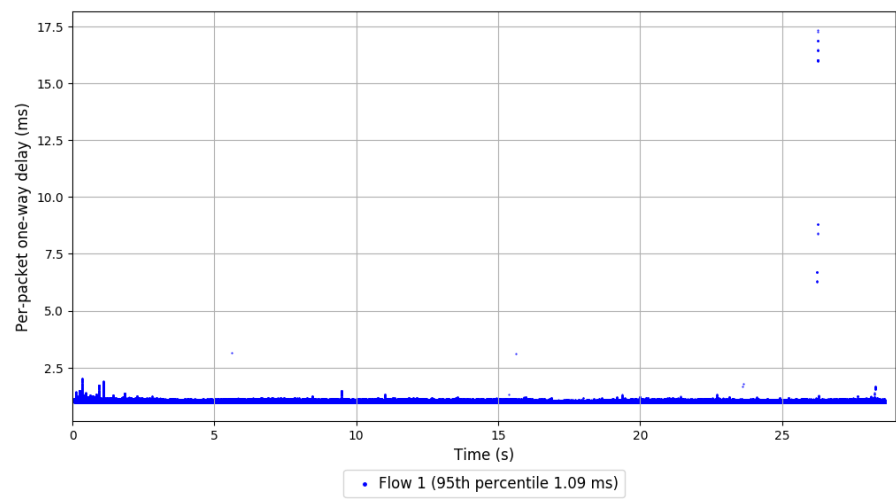
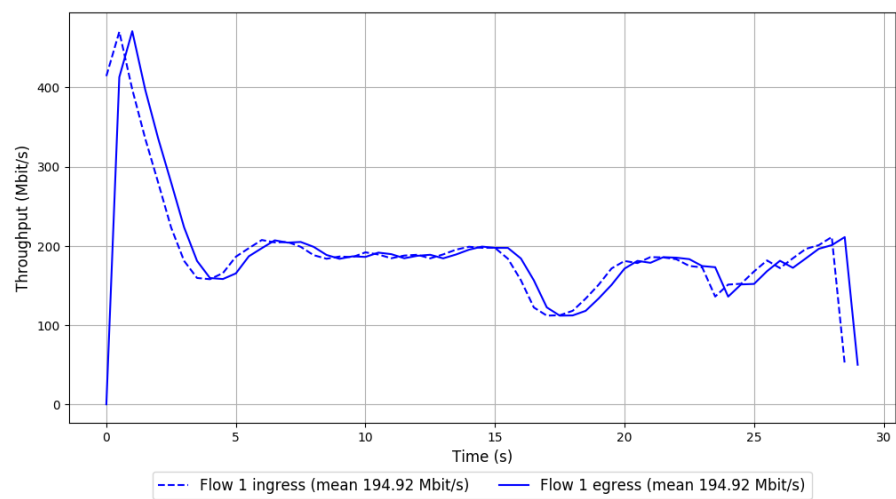
-- Flow 1:

Average throughput: 194.92 Mbit/s

95th percentile per-packet one-way delay: 1.088 ms

Loss rate: 0.01%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-02-20 06:09:04

End at: 2019-02-20 06:09:34

Local clock offset: 0.158 ms

Remote clock offset: 0.427 ms

# Below is generated by plot.py at 2019-02-20 08:19:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 274.86 Mbit/s

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

Loss rate: 0.00%

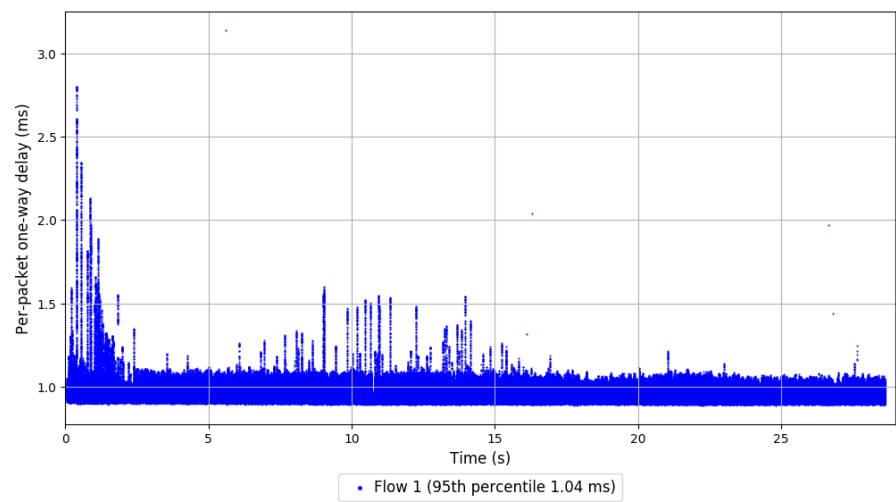
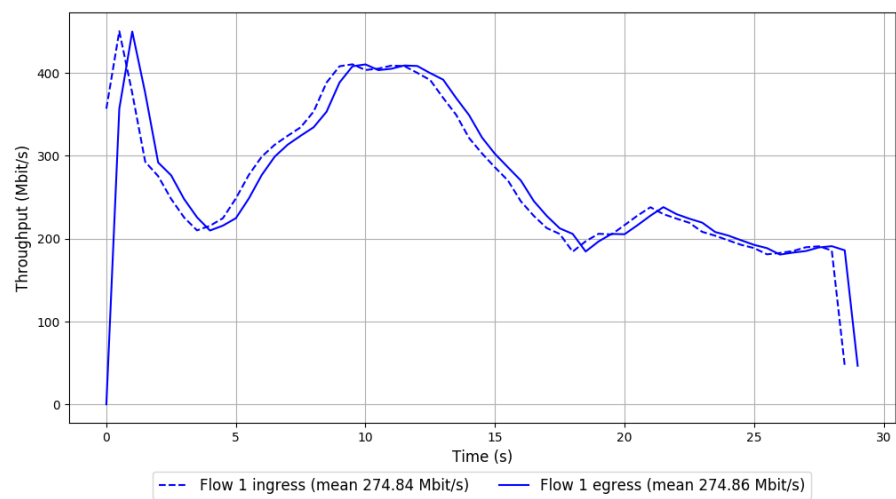
-- Flow 1:

Average throughput: 274.86 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-02-20 06:38:30

End at: 2019-02-20 06:39:00

Local clock offset: 0.204 ms

Remote clock offset: 0.184 ms

# Below is generated by plot.py at 2019-02-20 08:19:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 207.32 Mbit/s

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

Loss rate: 0.01%

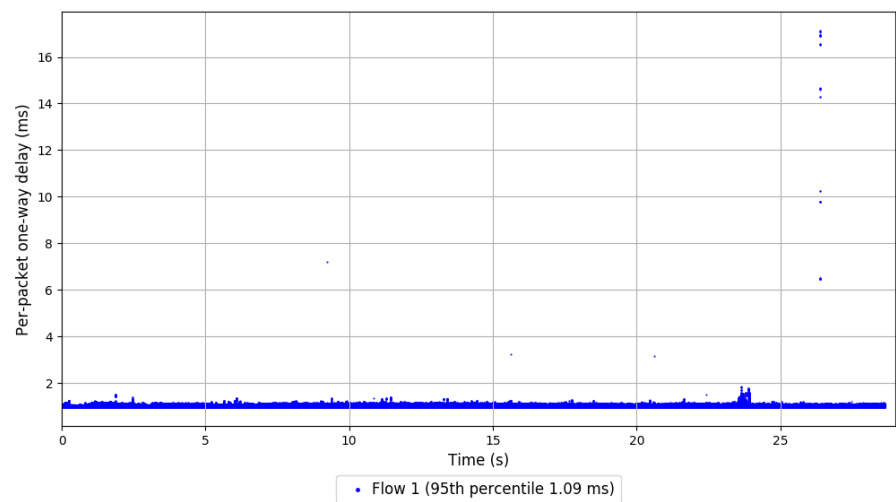
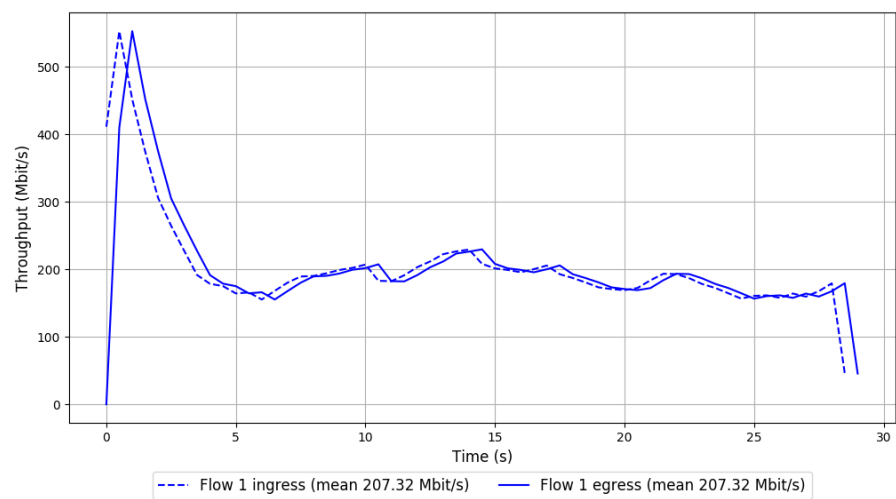
-- Flow 1:

Average throughput: 207.32 Mbit/s

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

Loss rate: 0.01%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-02-20 07:07:52

End at: 2019-02-20 07:08:22

Local clock offset: -1.937 ms

Remote clock offset: 0.221 ms

# Below is generated by plot.py at 2019-02-20 08:19:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 206.03 Mbit/s

95th percentile per-packet one-way delay: 1.164 ms

Loss rate: 0.01%

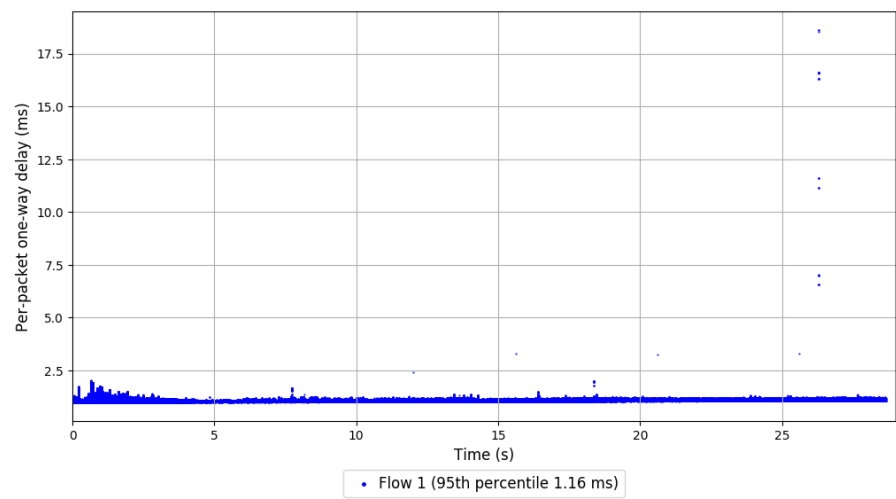
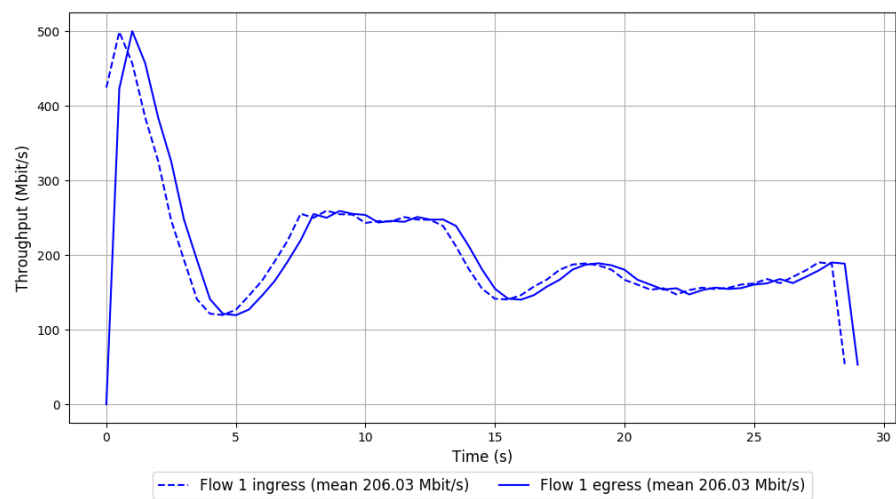
-- Flow 1:

Average throughput: 206.03 Mbit/s

95th percentile per-packet one-way delay: 1.164 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-02-20 05:11:45

End at: 2019-02-20 05:12:15

Local clock offset: 0.315 ms

Remote clock offset: 0.005 ms

# Below is generated by plot.py at 2019-02-20 08:19:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 221.50 Mbit/s

95th percentile per-packet one-way delay: 1.067 ms

Loss rate: 0.01%

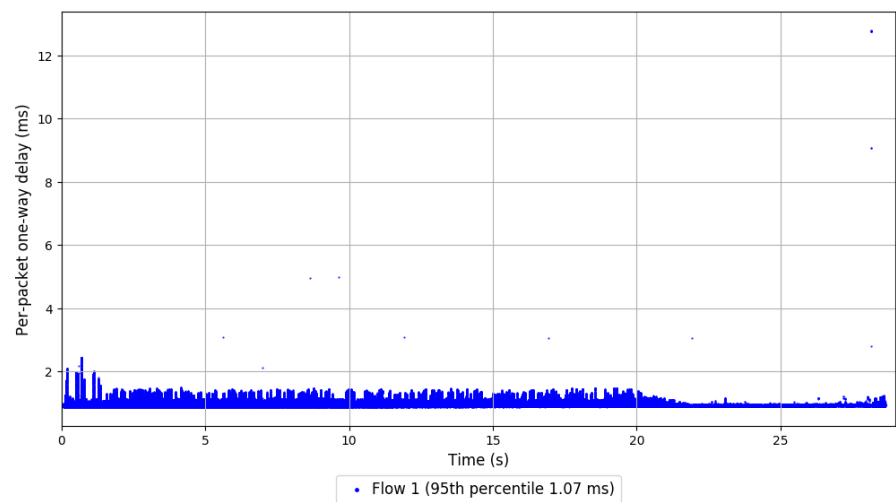
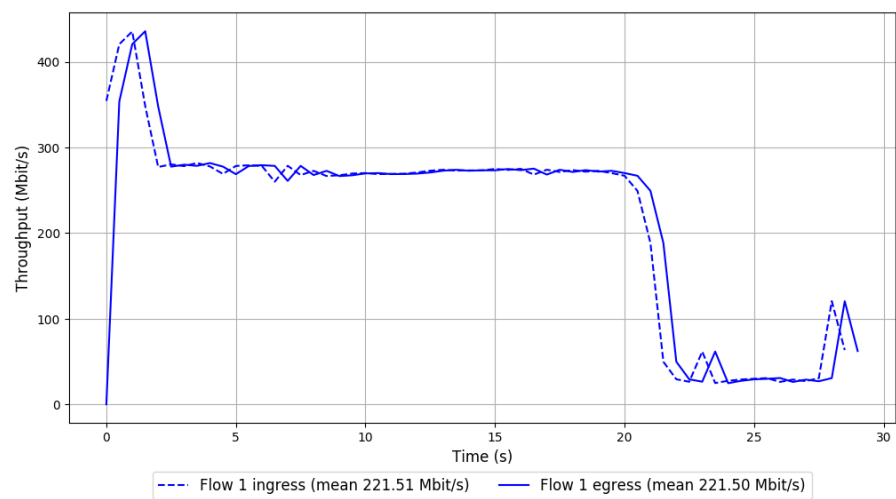
-- Flow 1:

Average throughput: 221.50 Mbit/s

95th percentile per-packet one-way delay: 1.067 ms

Loss rate: 0.01%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-02-20 05:41:08

End at: 2019-02-20 05:41:38

Local clock offset: 0.146 ms

Remote clock offset: 0.282 ms

# Below is generated by plot.py at 2019-02-20 08:19:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 109.20 Mbit/s

95th percentile per-packet one-way delay: 1.195 ms

Loss rate: 0.00%

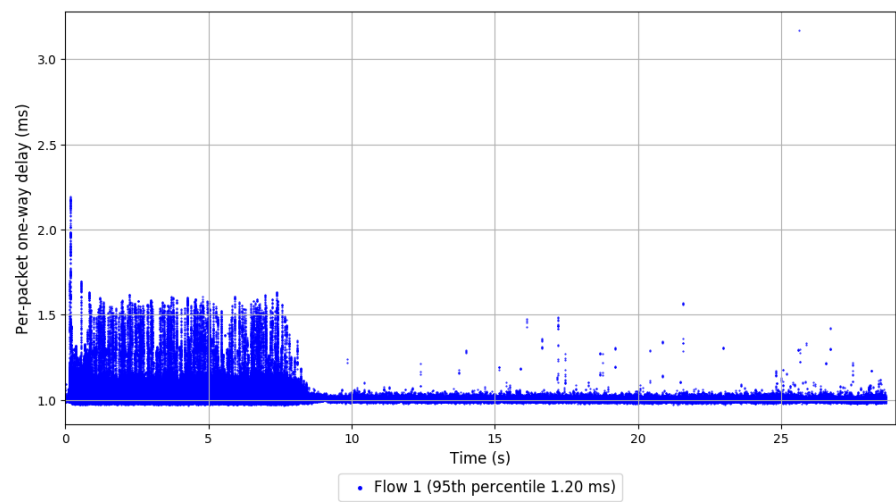
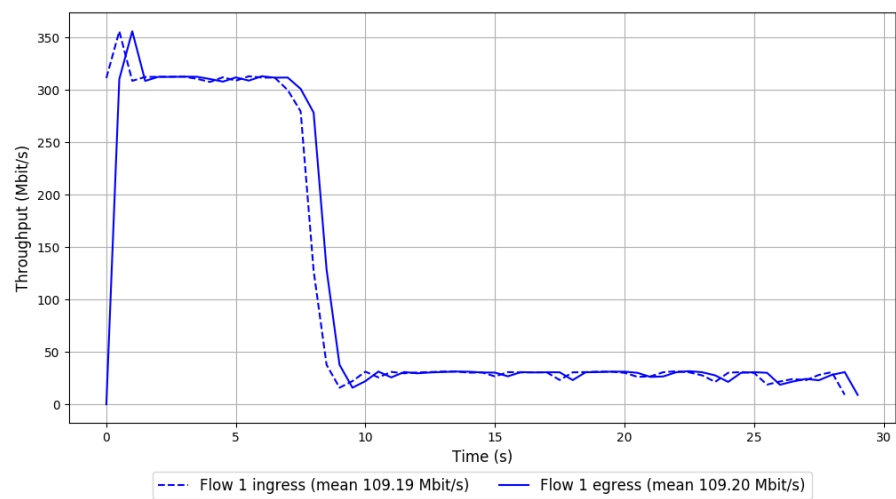
-- Flow 1:

Average throughput: 109.20 Mbit/s

95th percentile per-packet one-way delay: 1.195 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-02-20 06:10:26

End at: 2019-02-20 06:10:56

Local clock offset: 0.143 ms

Remote clock offset: 0.341 ms

# Below is generated by plot.py at 2019-02-20 08:19:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 160.81 Mbit/s

95th percentile per-packet one-way delay: 1.082 ms

Loss rate: 0.00%

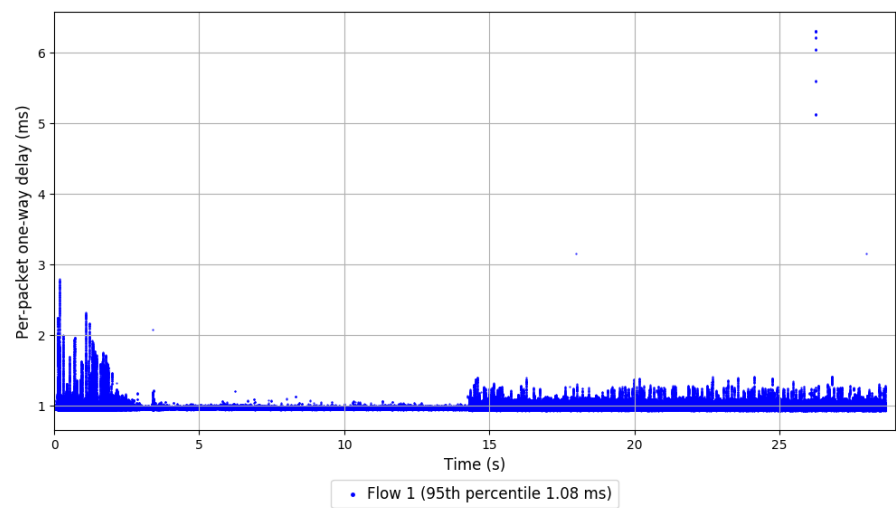
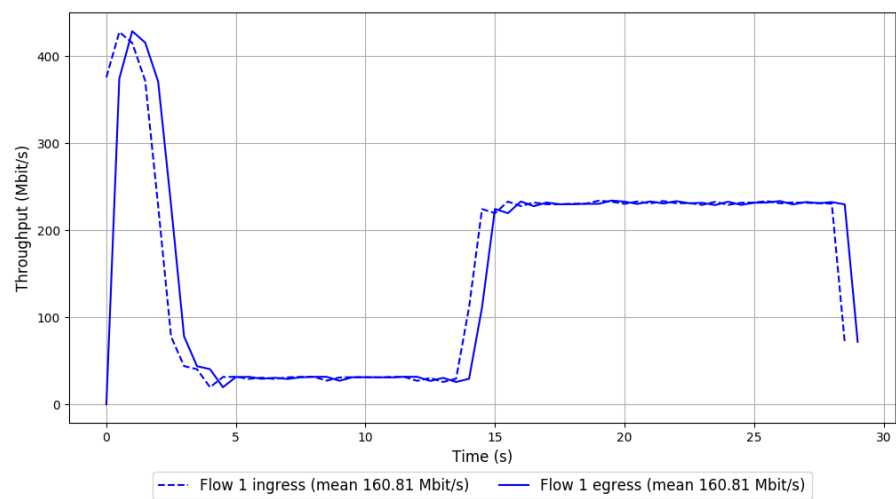
-- Flow 1:

Average throughput: 160.81 Mbit/s

95th percentile per-packet one-way delay: 1.082 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-02-20 06:39:50

End at: 2019-02-20 06:40:20

Local clock offset: 0.24 ms

Remote clock offset: 0.187 ms

# Below is generated by plot.py at 2019-02-20 08:19:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 102.03 Mbit/s

95th percentile per-packet one-way delay: 1.135 ms

Loss rate: 0.00%

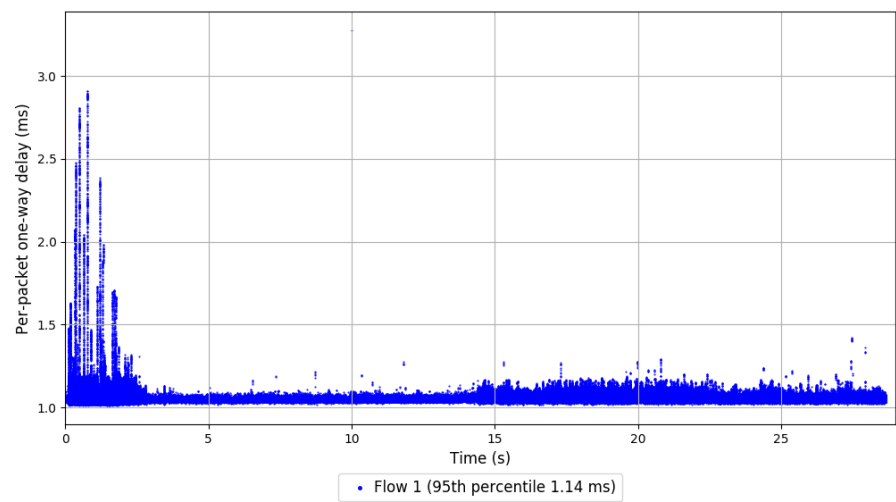
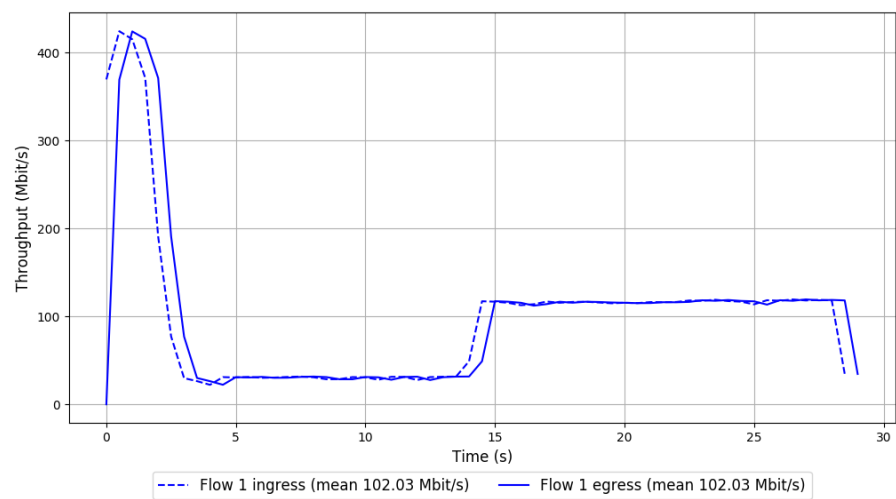
-- Flow 1:

Average throughput: 102.03 Mbit/s

95th percentile per-packet one-way delay: 1.135 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-02-20 07:09:11

End at: 2019-02-20 07:09:41

Local clock offset: -2.148 ms

Remote clock offset: 0.261 ms

# Below is generated by plot.py at 2019-02-20 08:19:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 151.29 Mbit/s

95th percentile per-packet one-way delay: 1.189 ms

Loss rate: 0.01%

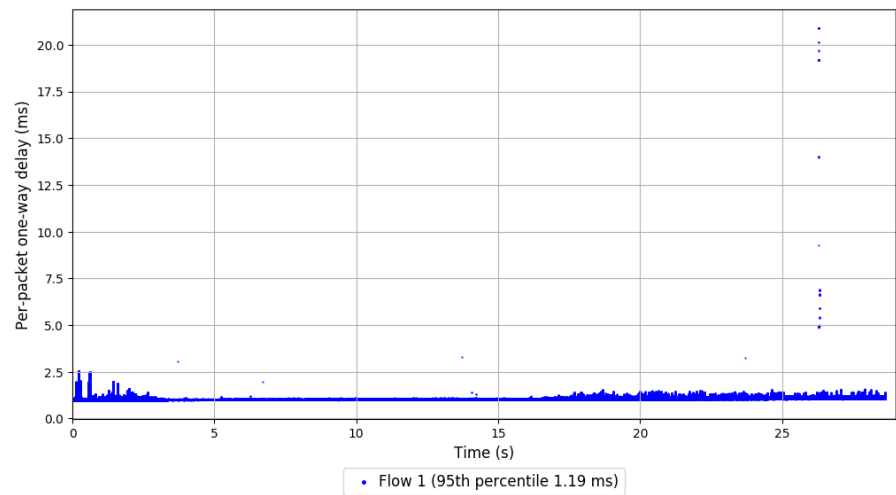
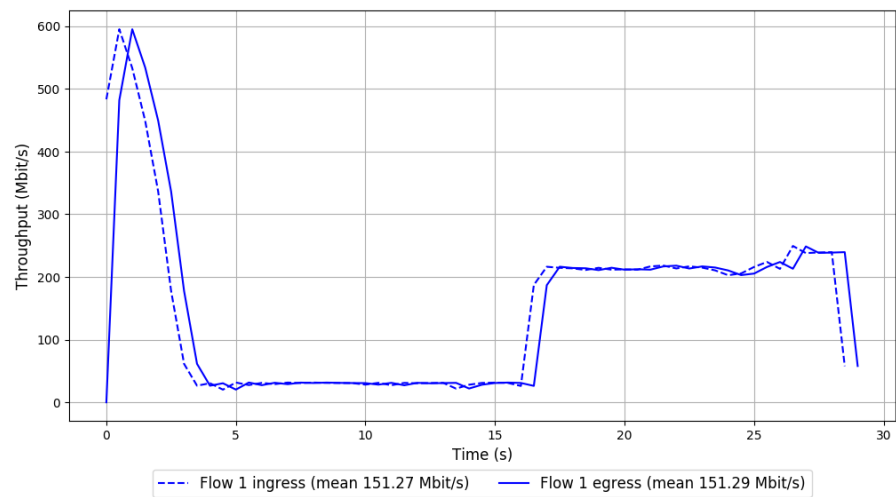
-- Flow 1:

Average throughput: 151.29 Mbit/s

95th percentile per-packet one-way delay: 1.189 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-02-20 05:13:05

End at: 2019-02-20 05:13:35

Local clock offset: 0.305 ms

Remote clock offset: -0.006 ms

# Below is generated by plot.py at 2019-02-20 08:19:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.96 Mbit/s

95th percentile per-packet one-way delay: 1.007 ms

Loss rate: 0.00%

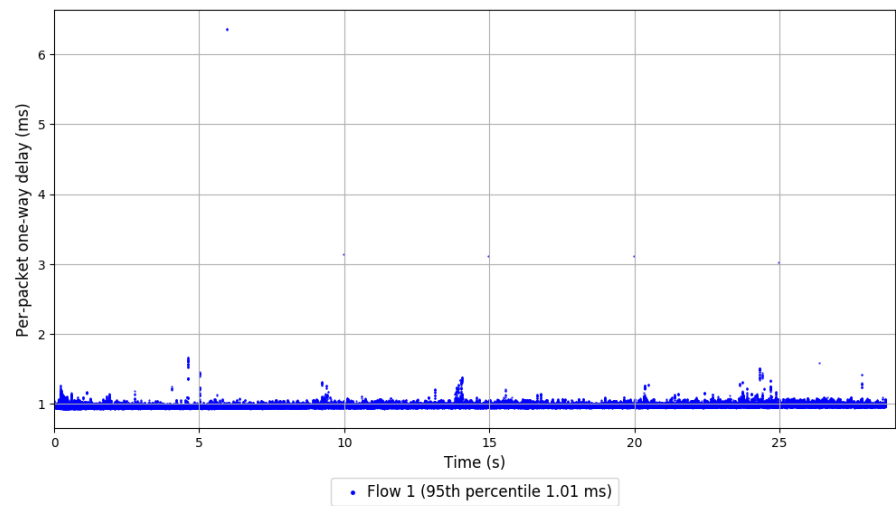
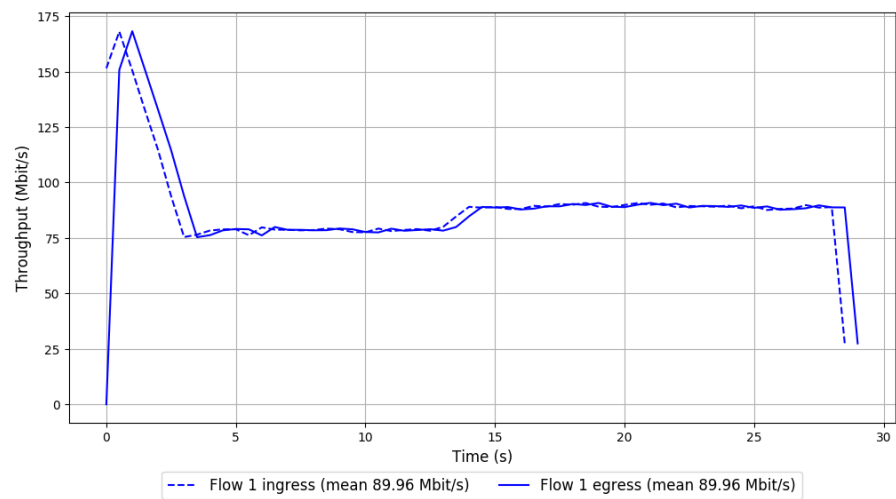
-- Flow 1:

Average throughput: 89.96 Mbit/s

95th percentile per-packet one-way delay: 1.007 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-02-20 05:42:25

End at: 2019-02-20 05:42:55

Local clock offset: 0.159 ms

Remote clock offset: 0.383 ms

# Below is generated by plot.py at 2019-02-20 08:19:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 102.46 Mbit/s

95th percentile per-packet one-way delay: 0.964 ms

Loss rate: 0.00%

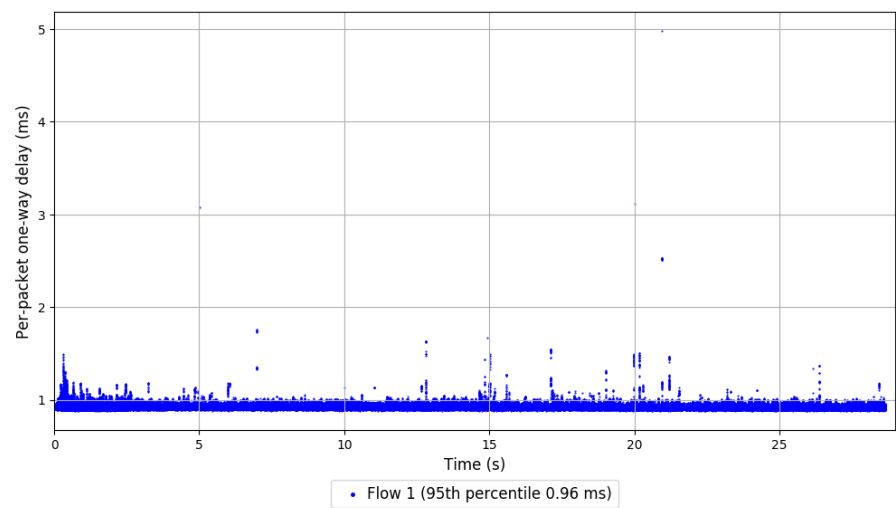
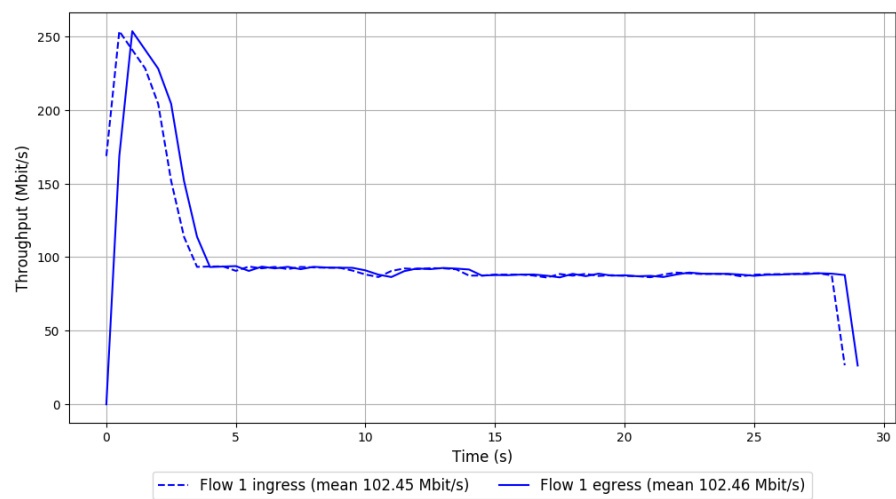
-- Flow 1:

Average throughput: 102.46 Mbit/s

95th percentile per-packet one-way delay: 0.964 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-02-20 06:11:44

End at: 2019-02-20 06:12:14

Local clock offset: 0.119 ms

Remote clock offset: 0.308 ms

# Below is generated by plot.py at 2019-02-20 08:19:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 78.35 Mbit/s

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

Loss rate: 0.01%

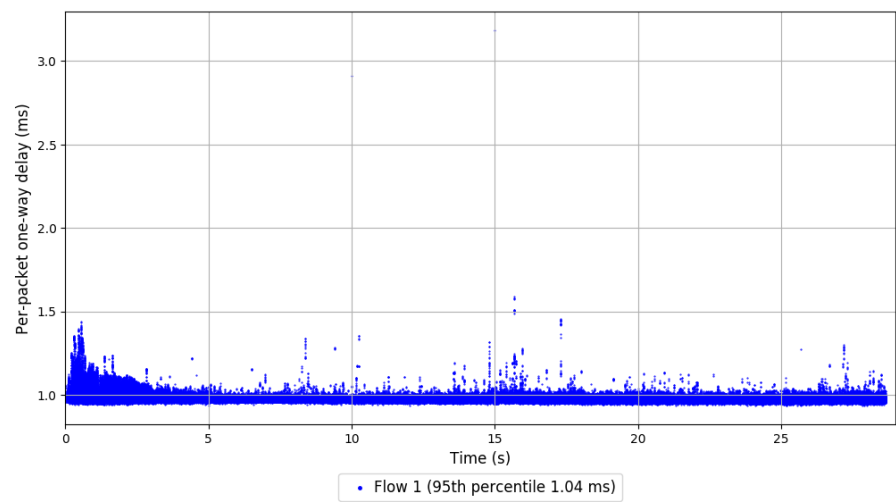
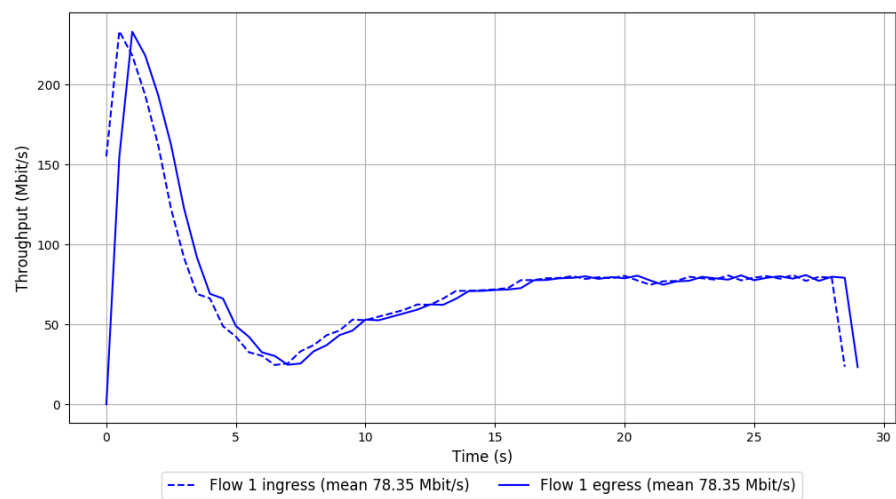
-- Flow 1:

Average throughput: 78.35 Mbit/s

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

Loss rate: 0.01%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-02-20 06:41:06

End at: 2019-02-20 06:41:36

Local clock offset: 0.21 ms

Remote clock offset: 0.249 ms

# Below is generated by plot.py at 2019-02-20 08:19:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.96 Mbit/s

95th percentile per-packet one-way delay: 1.031 ms

Loss rate: 0.00%

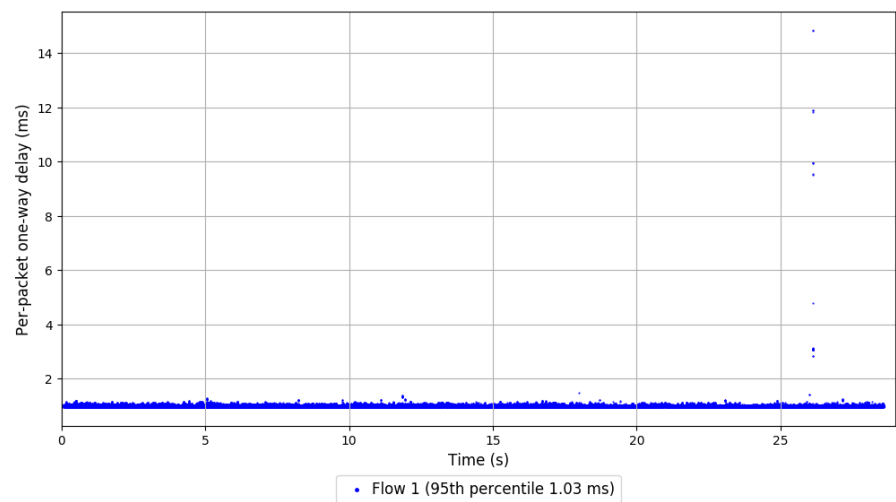
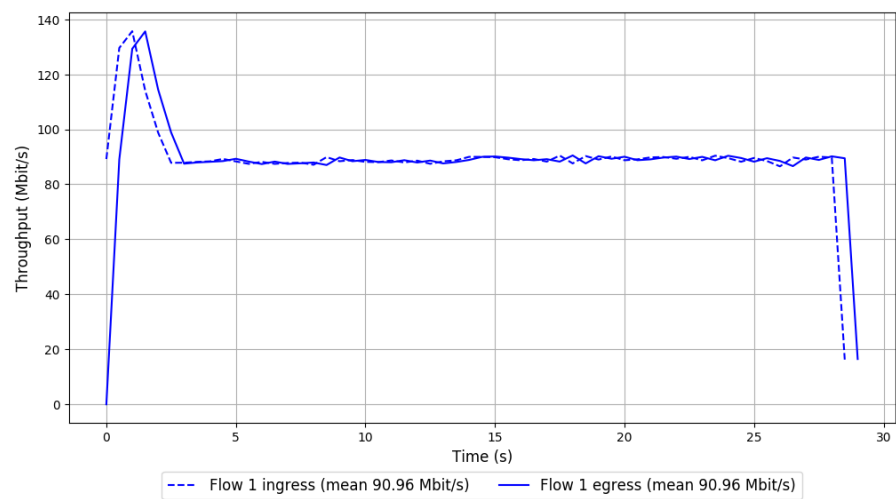
-- Flow 1:

Average throughput: 90.96 Mbit/s

95th percentile per-packet one-way delay: 1.031 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-02-20 07:10:29

End at: 2019-02-20 07:10:59

Local clock offset: -2.33 ms

Remote clock offset: 0.195 ms

# Below is generated by plot.py at 2019-02-20 08:19:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 98.92 Mbit/s

95th percentile per-packet one-way delay: 1.197 ms

Loss rate: 0.00%

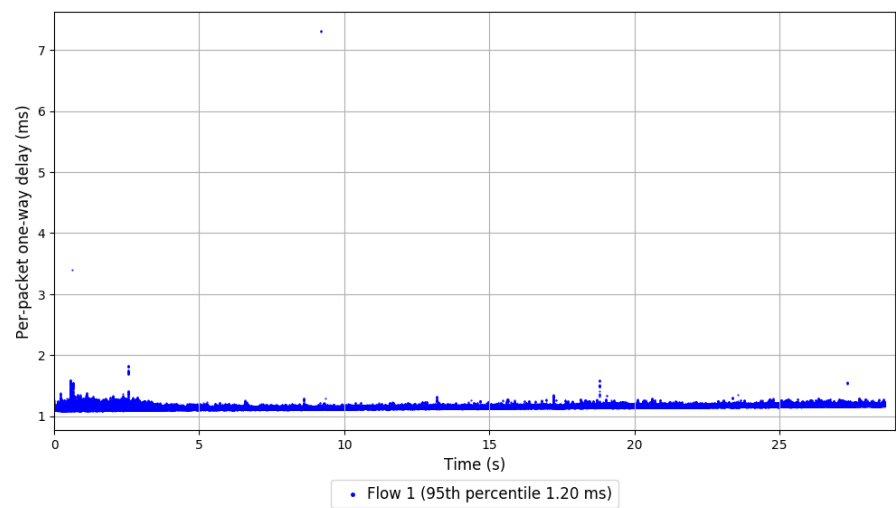
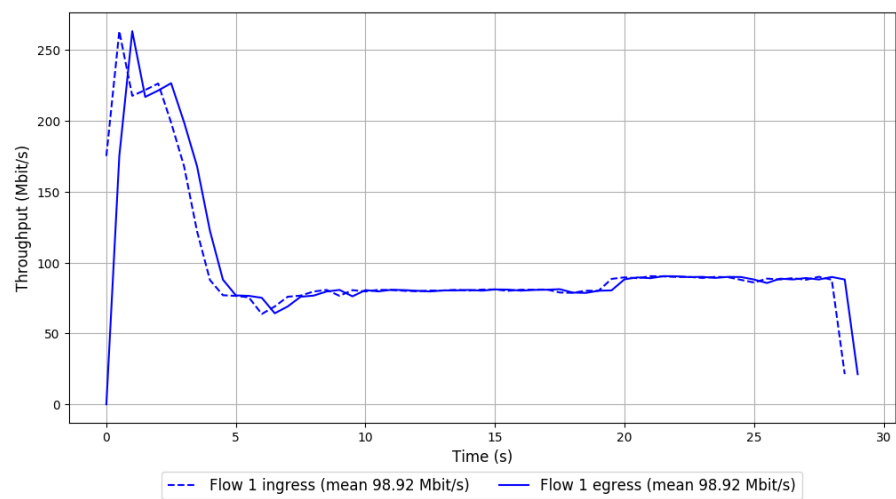
-- Flow 1:

Average throughput: 98.92 Mbit/s

95th percentile per-packet one-way delay: 1.197 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-02-20 05:09:03

End at: 2019-02-20 05:09:33

Local clock offset: 0.328 ms

Remote clock offset: -0.19 ms

# Below is generated by plot.py at 2019-02-20 08:19:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 257.39 Mbit/s

95th percentile per-packet one-way delay: 1.041 ms

Loss rate: 0.01%

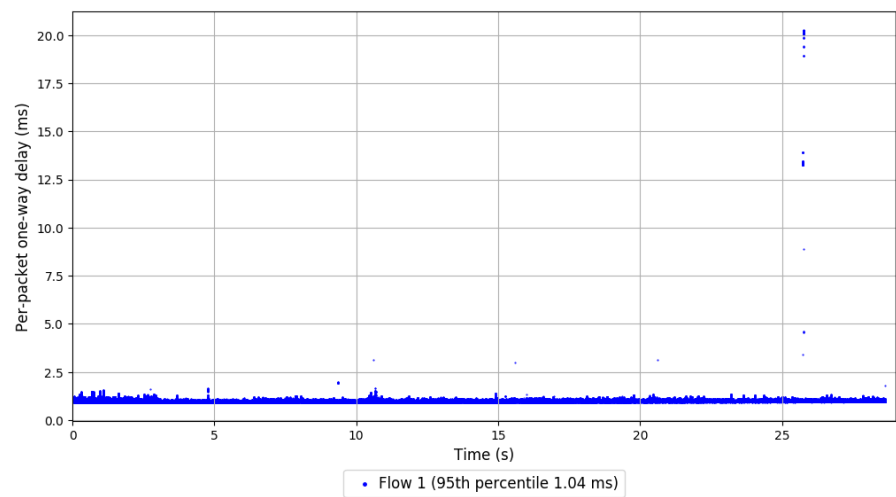
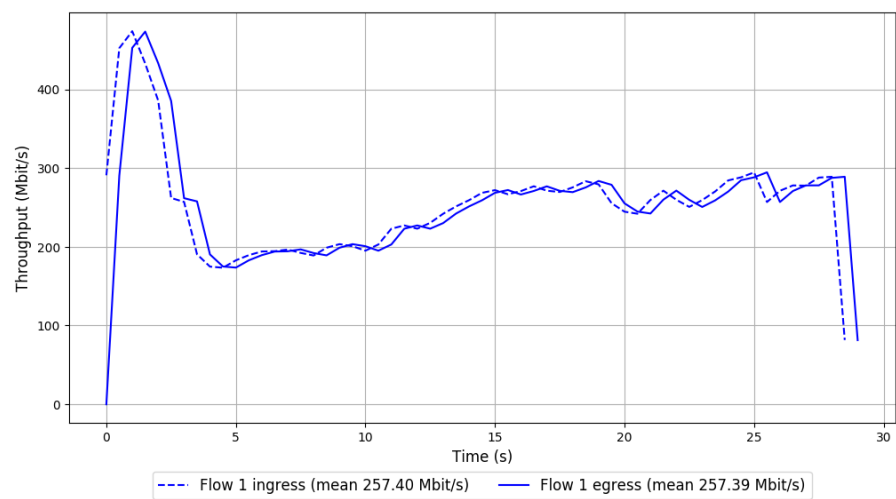
-- Flow 1:

Average throughput: 257.39 Mbit/s

95th percentile per-packet one-way delay: 1.041 ms

Loss rate: 0.01%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-02-20 05:38:28

End at: 2019-02-20 05:38:58

Local clock offset: 0.13 ms

Remote clock offset: 0.315 ms

# Below is generated by plot.py at 2019-02-20 08:19:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 260.44 Mbit/s

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

Loss rate: 0.01%

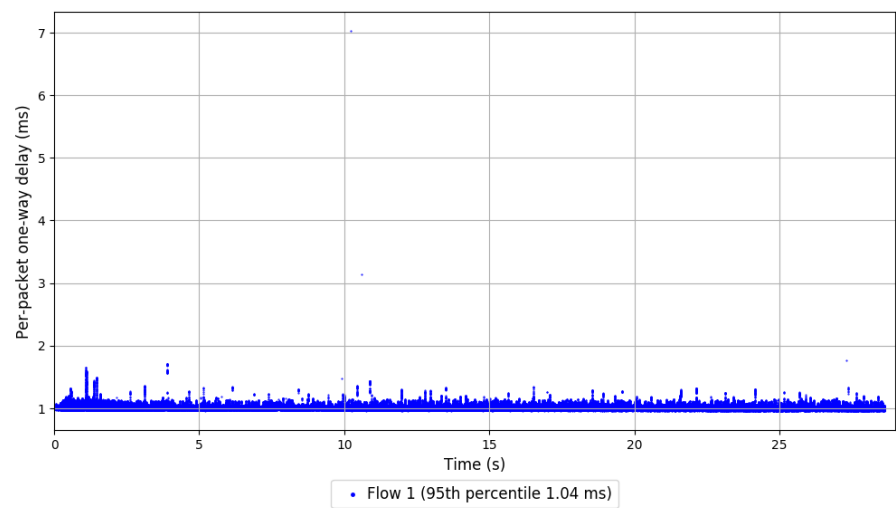
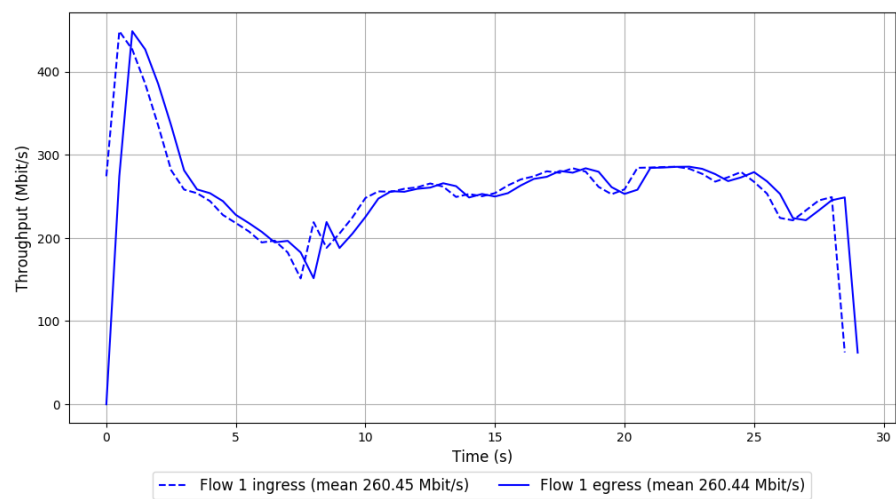
-- Flow 1:

Average throughput: 260.44 Mbit/s

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

Loss rate: 0.01%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-02-20 06:07:44

End at: 2019-02-20 06:08:14

Local clock offset: 0.164 ms

Remote clock offset: 0.405 ms

# Below is generated by plot.py at 2019-02-20 08:19:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 215.22 Mbit/s

95th percentile per-packet one-way delay: 1.089 ms

Loss rate: 0.01%

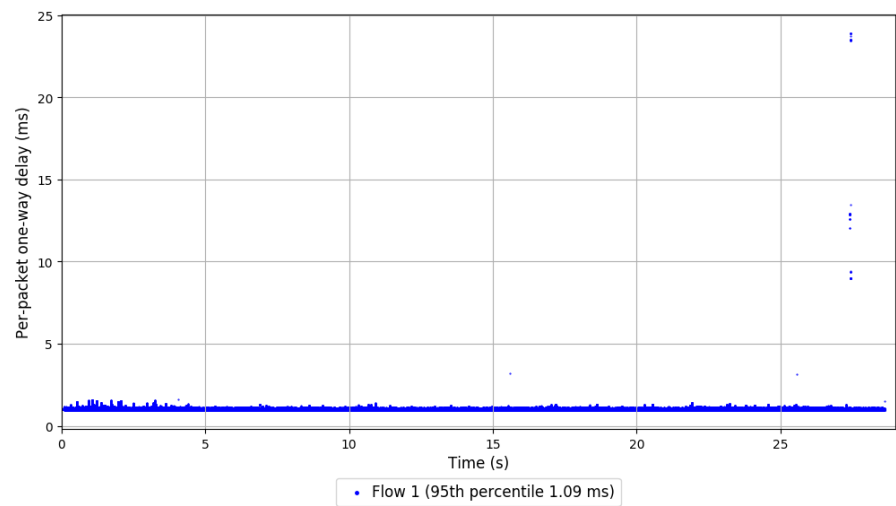
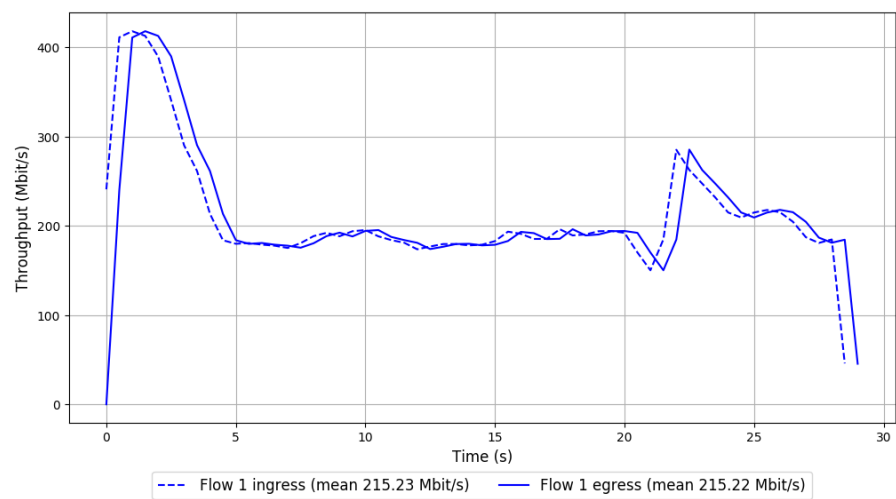
-- Flow 1:

Average throughput: 215.22 Mbit/s

95th percentile per-packet one-way delay: 1.089 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-02-20 06:37:10

End at: 2019-02-20 06:37:40

Local clock offset: 0.192 ms

Remote clock offset: 0.275 ms

# Below is generated by plot.py at 2019-02-20 08:19:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 210.03 Mbit/s

95th percentile per-packet one-way delay: 0.994 ms

Loss rate: 0.01%

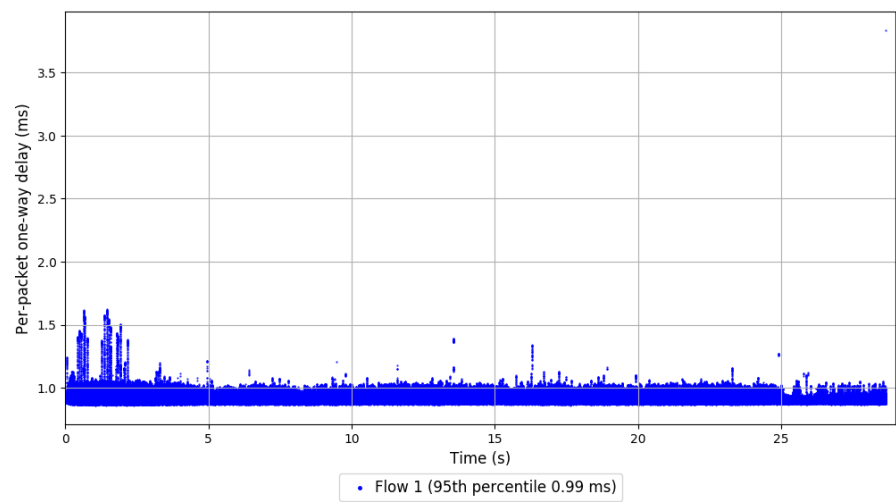
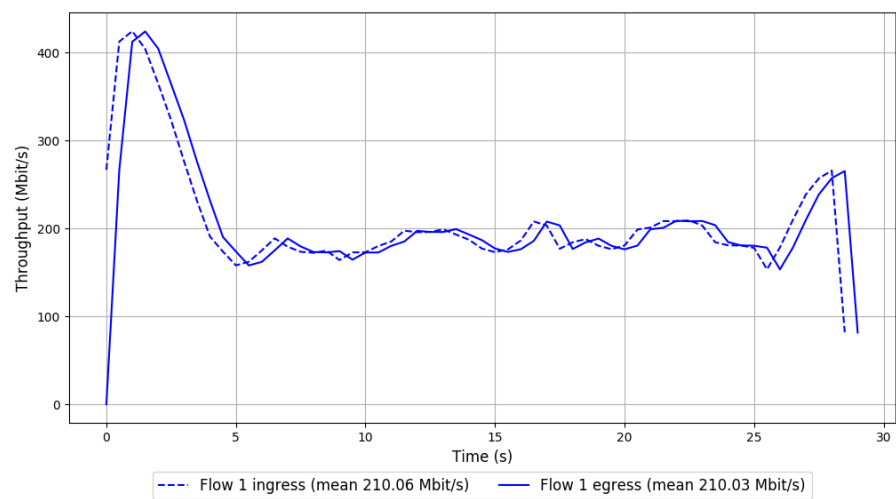
-- Flow 1:

Average throughput: 210.03 Mbit/s

95th percentile per-packet one-way delay: 0.994 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-02-20 07:06:31

End at: 2019-02-20 07:07:01

Local clock offset: -1.609 ms

Remote clock offset: 0.237 ms

# Below is generated by plot.py at 2019-02-20 08:19:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 244.45 Mbit/s

95th percentile per-packet one-way delay: 1.236 ms

Loss rate: 0.01%

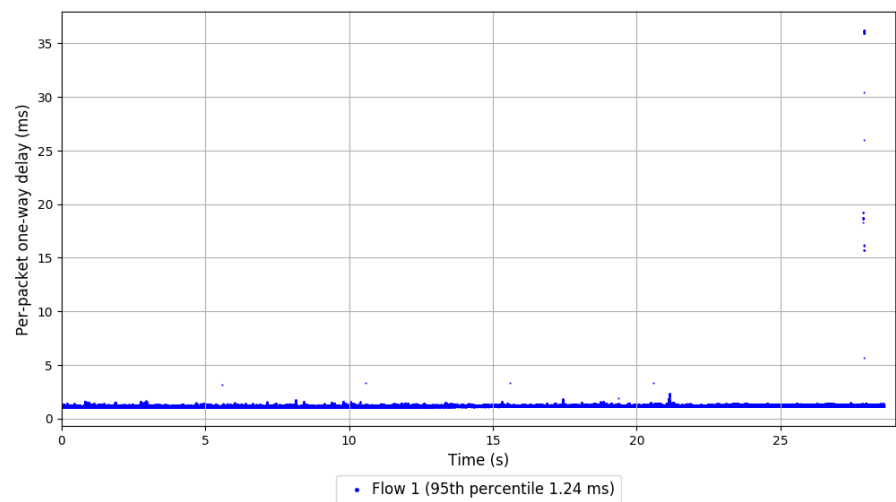
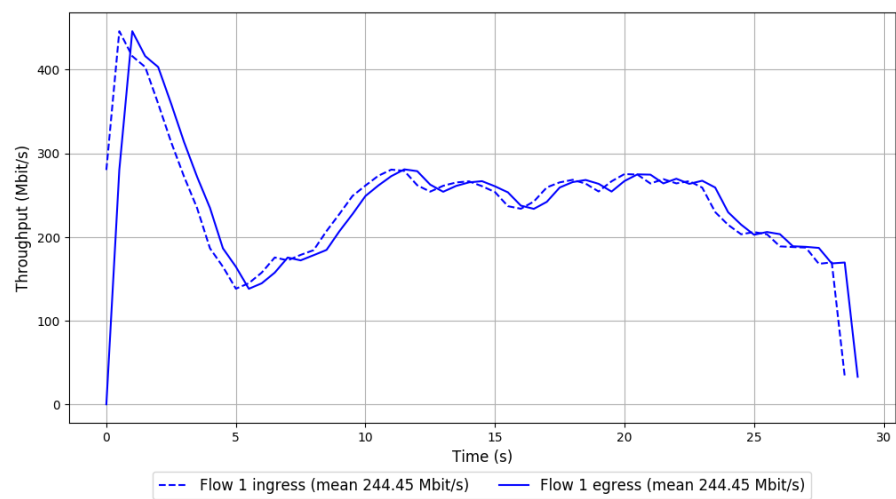
-- Flow 1:

Average throughput: 244.45 Mbit/s

95th percentile per-packet one-way delay: 1.236 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2019-02-20 05:16:55

End at: 2019-02-20 05:17:25

Local clock offset: 0.317 ms

Remote clock offset: 0.101 ms

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

# Datalink statistics

-- Total of 1 flow:

Average throughput: 574.15 Mbit/s

95th percentile per-packet one-way delay: 7.388 ms

Loss rate: 0.01%

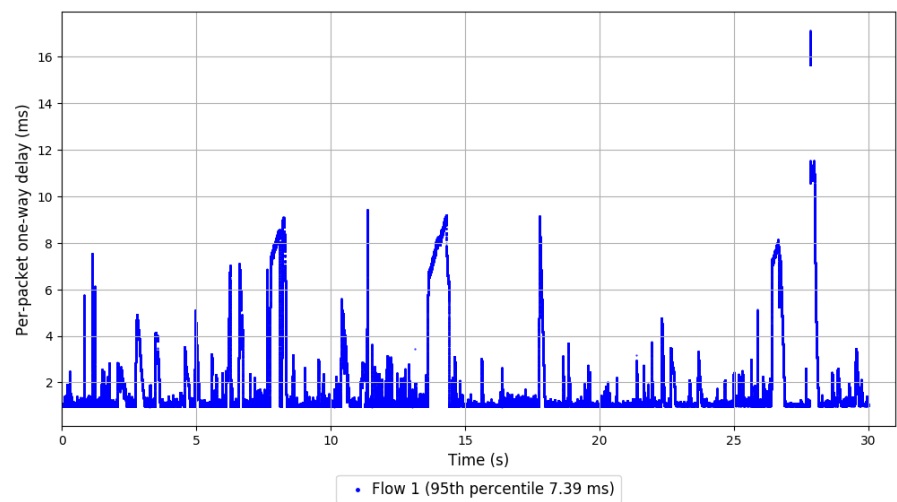
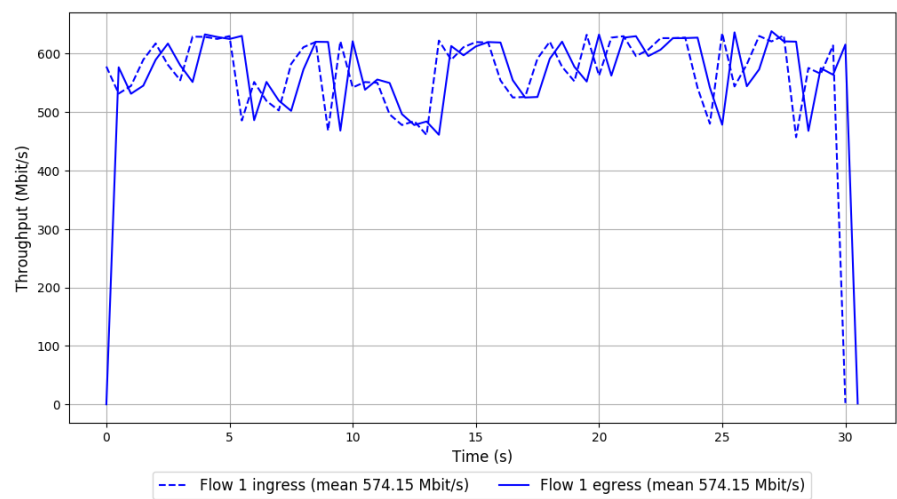
-- Flow 1:

Average throughput: 574.15 Mbit/s

95th percentile per-packet one-way delay: 7.388 ms

Loss rate: 0.01%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-02-20 05:46:14

End at: 2019-02-20 05:46:44

Local clock offset: 0.174 ms

Remote clock offset: 0.342 ms

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

# Datalink statistics

-- Total of 1 flow:

Average throughput: 519.84 Mbit/s

95th percentile per-packet one-way delay: 13.580 ms

Loss rate: 0.00%

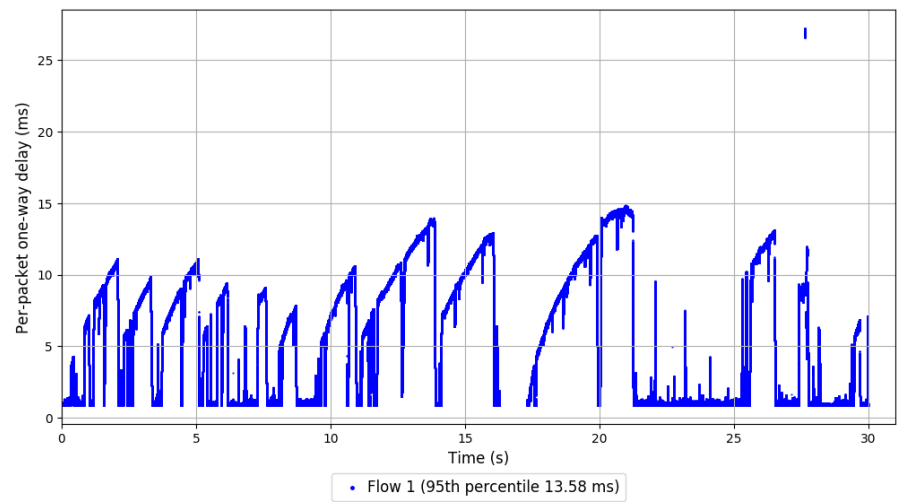
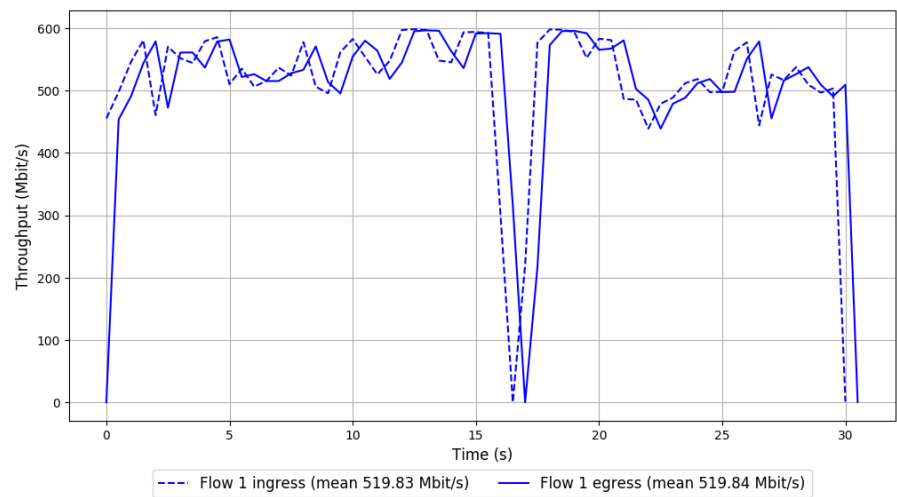
-- Flow 1:

Average throughput: 519.84 Mbit/s

95th percentile per-packet one-way delay: 13.580 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-02-20 06:15:34

End at: 2019-02-20 06:16:04

Local clock offset: 0.107 ms

Remote clock offset: 0.274 ms

# Below is generated by plot.py at 2019-02-20 08:22:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 542.45 Mbit/s

95th percentile per-packet one-way delay: 13.975 ms

Loss rate: 0.00%

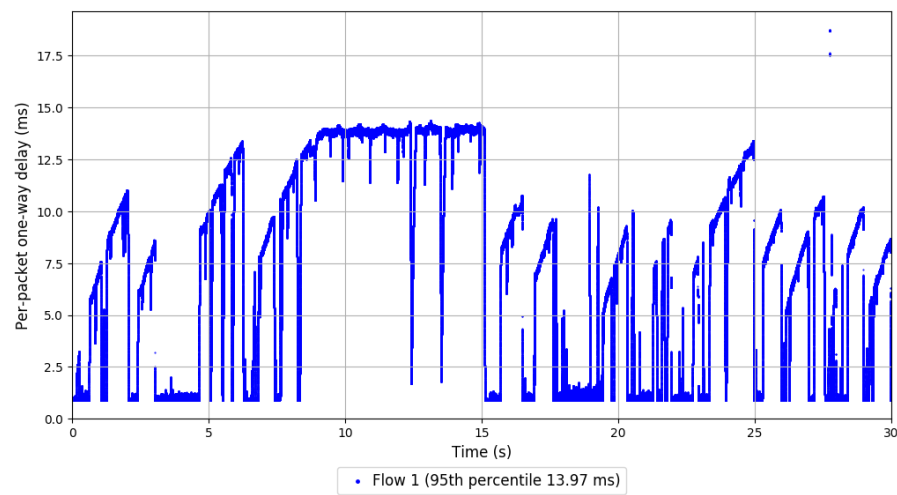
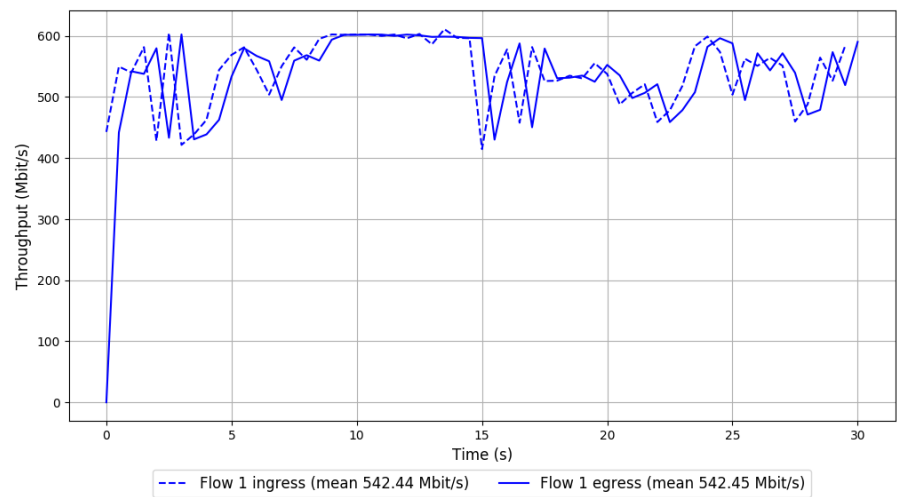
-- Flow 1:

Average throughput: 542.45 Mbit/s

95th percentile per-packet one-way delay: 13.975 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-02-20 06:44:56

End at: 2019-02-20 06:45:26

Local clock offset: 0.21 ms

Remote clock offset: 0.306 ms

# Below is generated by plot.py at 2019-02-20 08:22:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 556.12 Mbit/s

95th percentile per-packet one-way delay: 9.139 ms

Loss rate: 0.01%

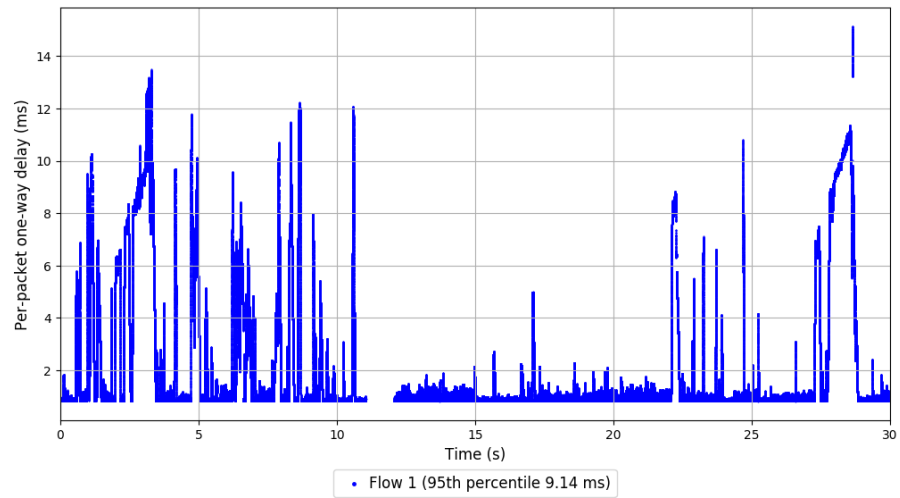
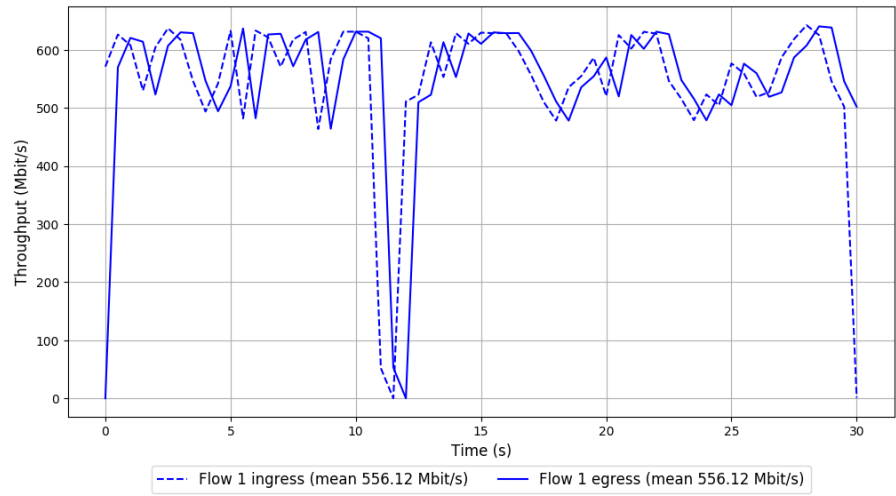
-- Flow 1:

Average throughput: 556.12 Mbit/s

95th percentile per-packet one-way delay: 9.139 ms

Loss rate: 0.01%

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



Run 5: Statistics of LEDBAT

Start at: 2019-02-20 07:14:18

End at: 2019-02-20 07:14:48

Local clock offset: -2.871 ms

Remote clock offset: 0.245 ms

# Below is generated by plot.py at 2019-02-20 08:23:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 592.19 Mbit/s

95th percentile per-packet one-way delay: 11.028 ms

Loss rate: 0.01%

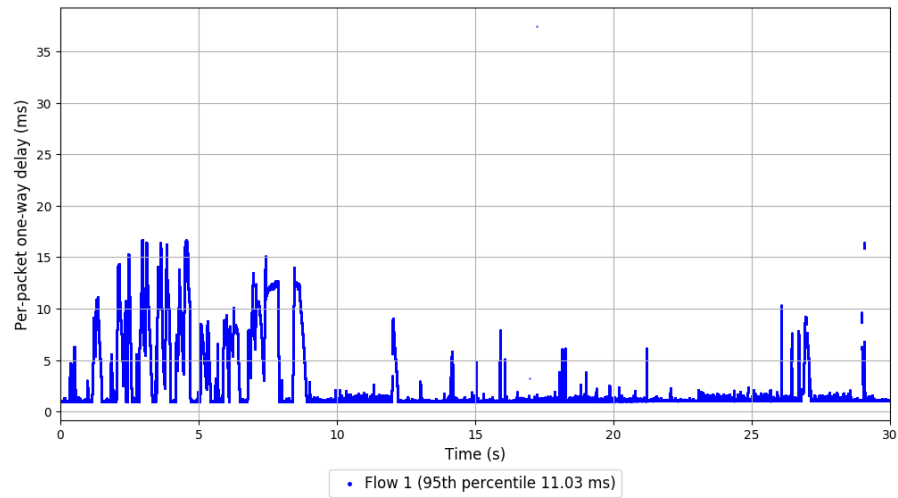
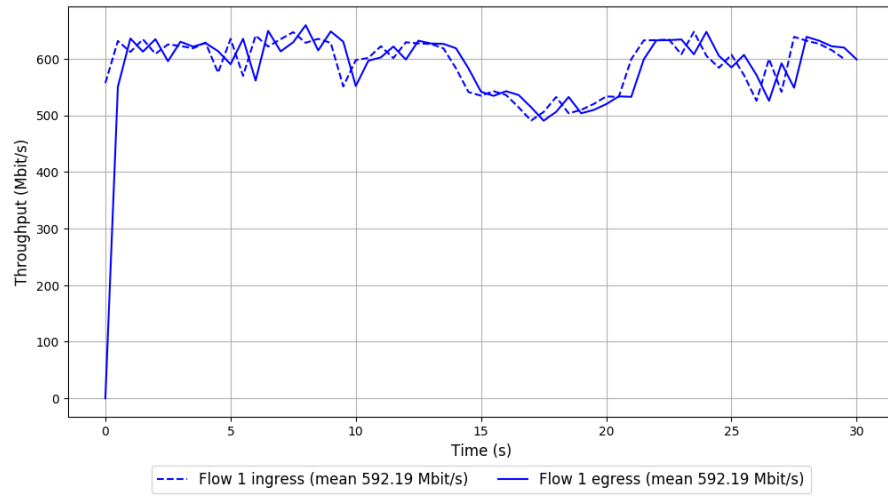
-- Flow 1:

Average throughput: 592.19 Mbit/s

95th percentile per-packet one-way delay: 11.028 ms

Loss rate: 0.01%

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



Run 1: Statistics of PCC-Allegro

Start at: 2019-02-20 05:07:32

End at: 2019-02-20 05:08:02

Local clock offset: 0.347 ms

Remote clock offset: -0.298 ms

# Below is generated by plot.py at 2019-02-20 08:25:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 764.28 Mbit/s

95th percentile per-packet one-way delay: 1.095 ms

Loss rate: 0.01%

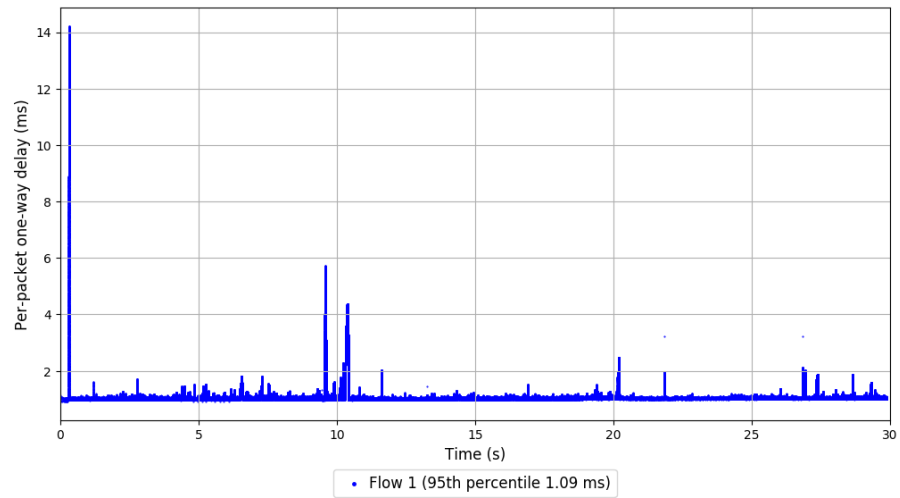
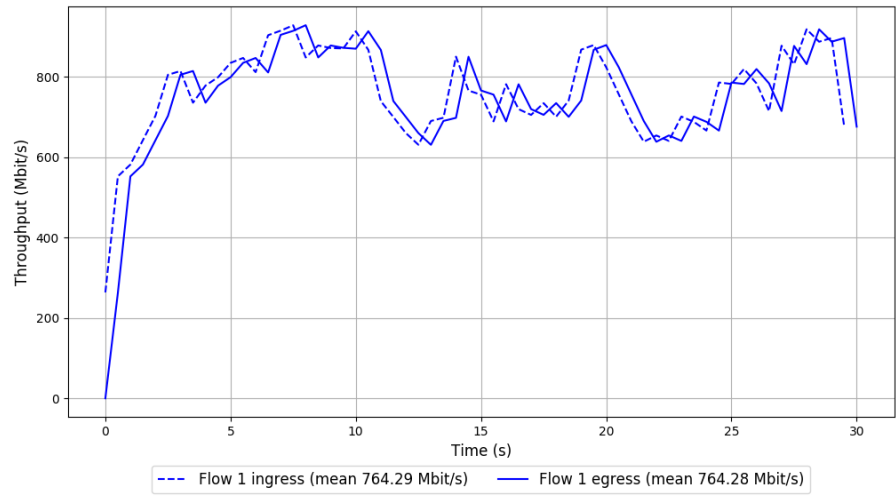
-- Flow 1:

Average throughput: 764.28 Mbit/s

95th percentile per-packet one-way delay: 1.095 ms

Loss rate: 0.01%

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



Run 2: Statistics of PCC-Allegro

Start at: 2019-02-20 05:36:58

End at: 2019-02-20 05:37:28

Local clock offset: 0.142 ms

Remote clock offset: 0.431 ms

# Below is generated by plot.py at 2019-02-20 08:25:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 724.88 Mbit/s

95th percentile per-packet one-way delay: 1.094 ms

Loss rate: 0.01%

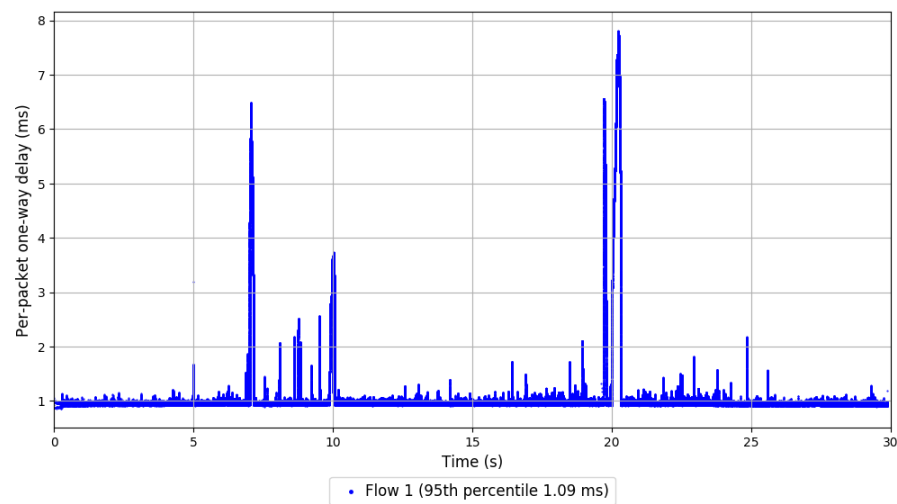
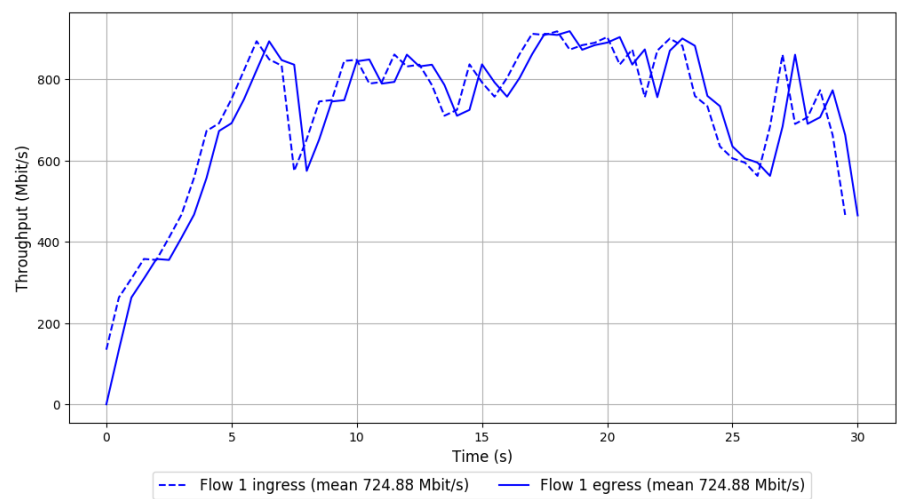
-- Flow 1:

Average throughput: 724.88 Mbit/s

95th percentile per-packet one-way delay: 1.094 ms

Loss rate: 0.01%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-02-20 06:06:18

End at: 2019-02-20 06:06:48

Local clock offset: 0.186 ms

Remote clock offset: 0.396 ms

# Below is generated by plot.py at 2019-02-20 08:26:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 573.10 Mbit/s

95th percentile per-packet one-way delay: 1.100 ms

Loss rate: 0.01%

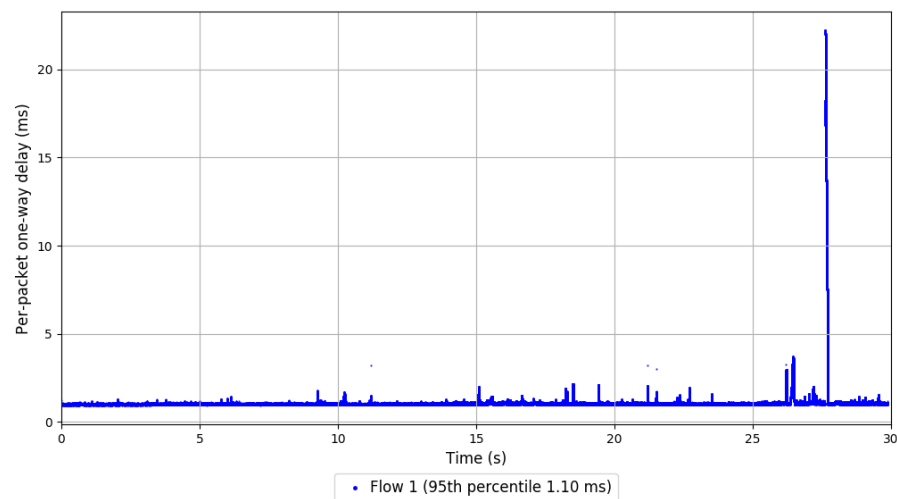
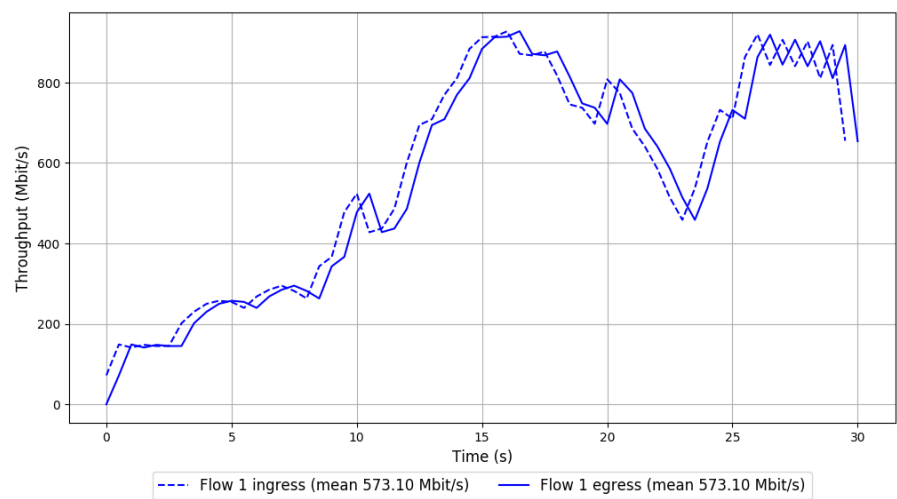
-- Flow 1:

Average throughput: 573.10 Mbit/s

95th percentile per-packet one-way delay: 1.100 ms

Loss rate: 0.01%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-02-20 06:35:40

End at: 2019-02-20 06:36:10

Local clock offset: 0.186 ms

Remote clock offset: 0.215 ms

# Below is generated by plot.py at 2019-02-20 08:29:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 718.16 Mbit/s

95th percentile per-packet one-way delay: 1.382 ms

Loss rate: 0.01%

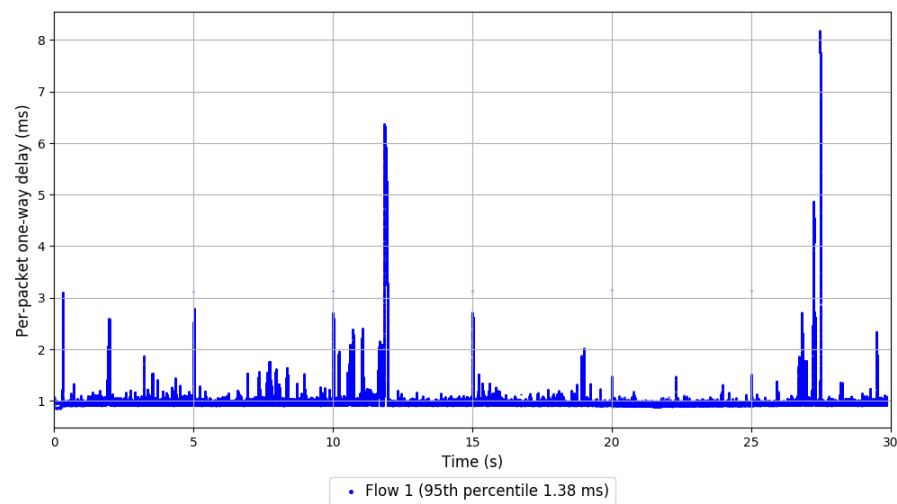
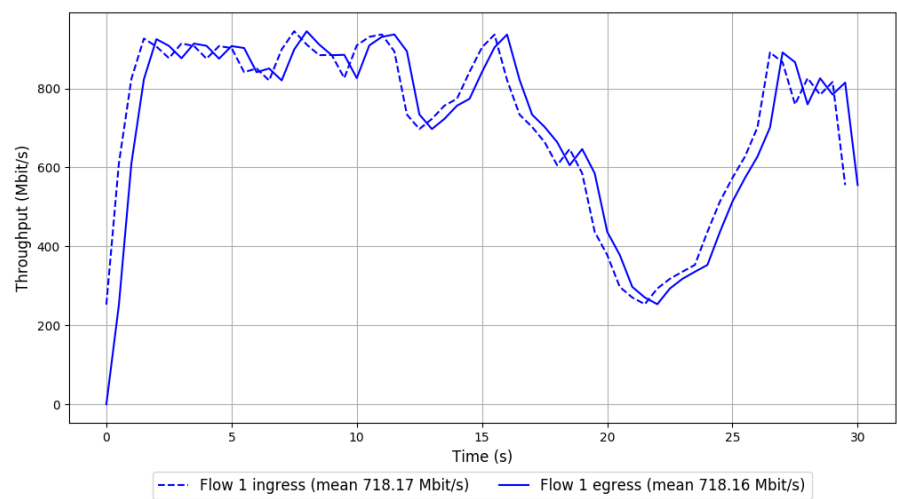
-- Flow 1:

Average throughput: 718.16 Mbit/s

95th percentile per-packet one-way delay: 1.382 ms

Loss rate: 0.01%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-02-20 07:05:00

End at: 2019-02-20 07:05:30

Local clock offset: -1.31 ms

Remote clock offset: 0.241 ms

# Below is generated by plot.py at 2019-02-20 08:29:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 747.37 Mbit/s

95th percentile per-packet one-way delay: 1.632 ms

Loss rate: 0.01%

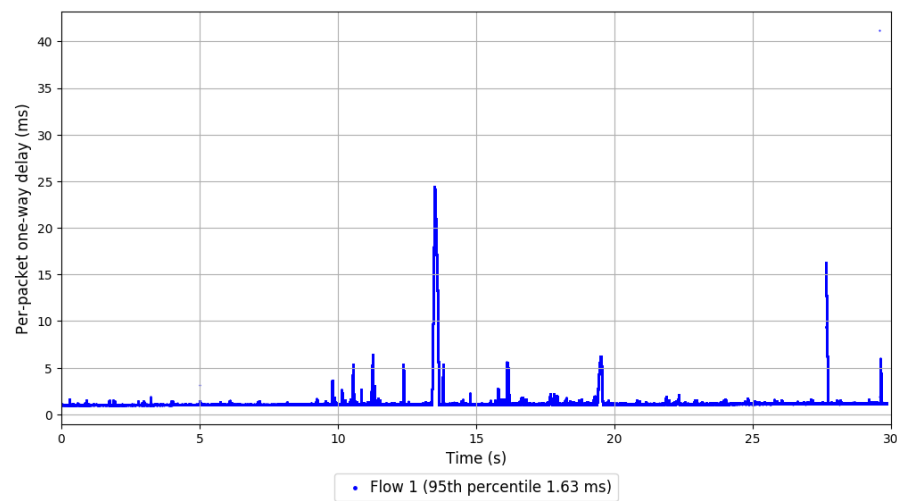
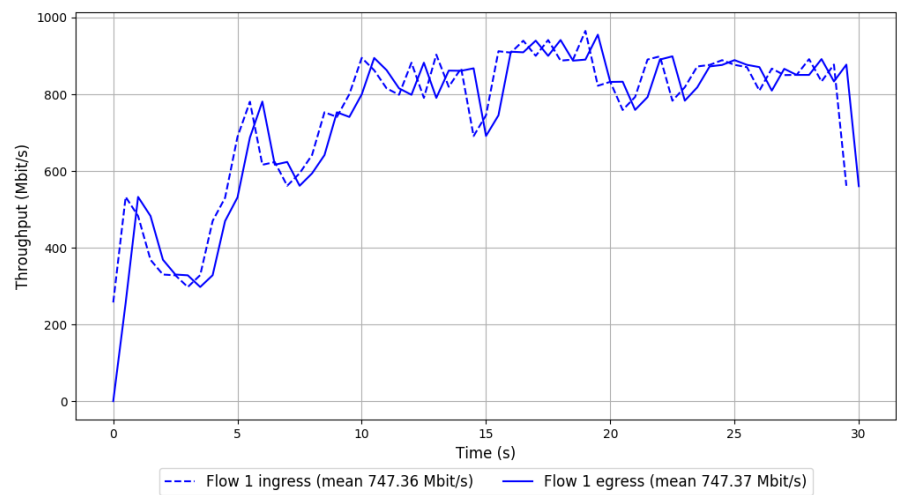
-- Flow 1:

Average throughput: 747.37 Mbit/s

95th percentile per-packet one-way delay: 1.632 ms

Loss rate: 0.01%

Run 5: Report of PCC-Allegro — Data Link

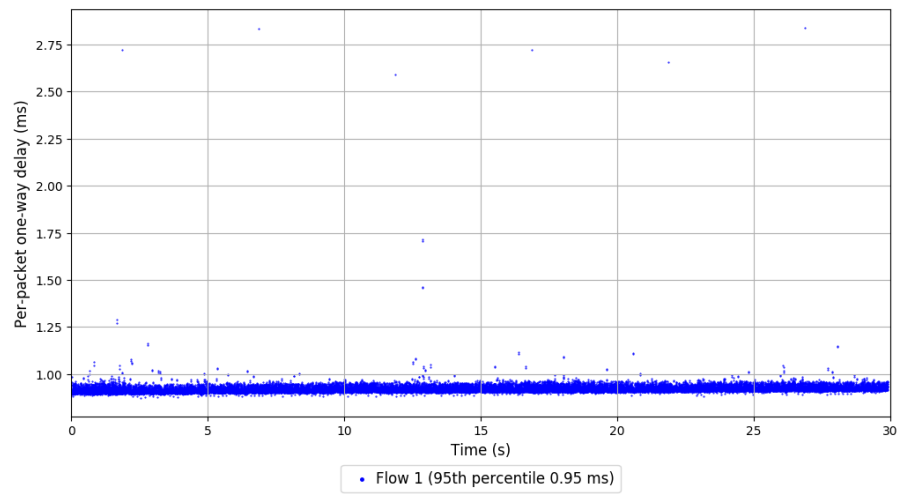
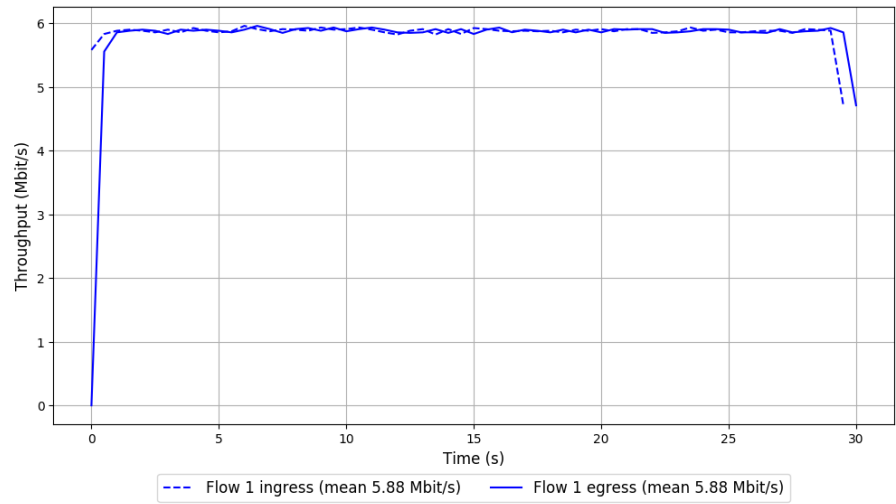


```
Run 1: Statistics of PCC-Expr

Start at: 2019-02-20 05:15:41
End at: 2019-02-20 05:16:11
Local clock offset: 0.315 ms
Remote clock offset: 0.164 ms

# Below is generated by plot.py at 2019-02-20 08:29:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.88 Mbit/s
95th percentile per-packet one-way delay: 0.949 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 5.88 Mbit/s
95th percentile per-packet one-way delay: 0.949 ms
Loss rate: 0.01%
```

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



Run 2: Statistics of PCC-Expr

Start at: 2019-02-20 05:45:01

End at: 2019-02-20 05:45:31

Local clock offset: 0.165 ms

Remote clock offset: 0.312 ms

# Below is generated by plot.py at 2019-02-20 08:29:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.16 Mbit/s

95th percentile per-packet one-way delay: 0.991 ms

Loss rate: 0.01%

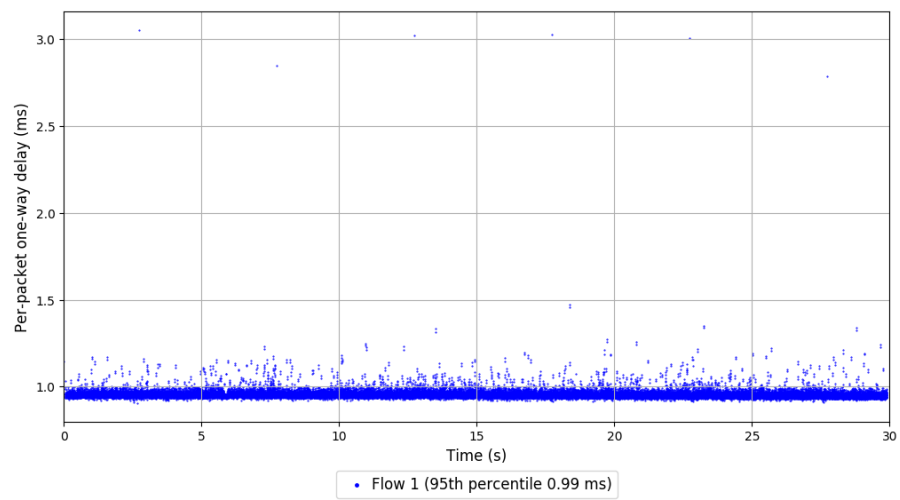
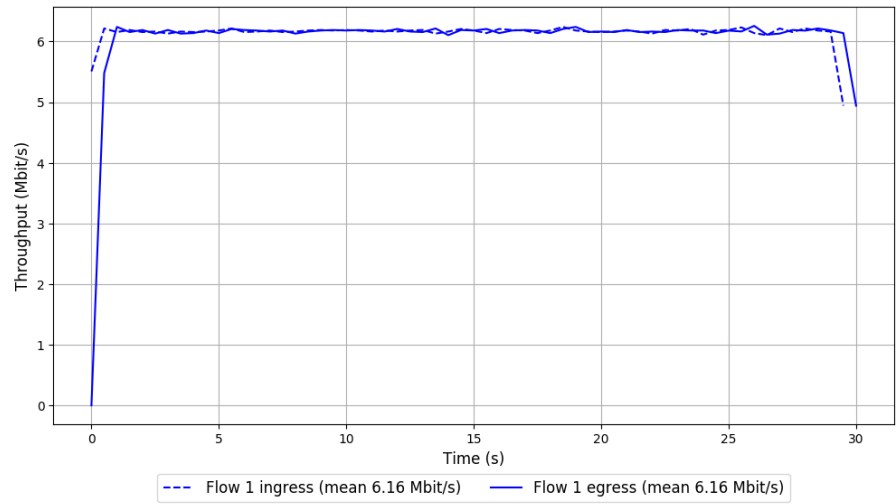
-- Flow 1:

Average throughput: 6.16 Mbit/s

95th percentile per-packet one-way delay: 0.991 ms

Loss rate: 0.01%

## Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-02-20 06:14:20

End at: 2019-02-20 06:14:50

Local clock offset: 0.142 ms

Remote clock offset: 0.342 ms

# Below is generated by plot.py at 2019-02-20 08:29:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.88 Mbit/s

95th percentile per-packet one-way delay: 0.947 ms

Loss rate: 0.01%

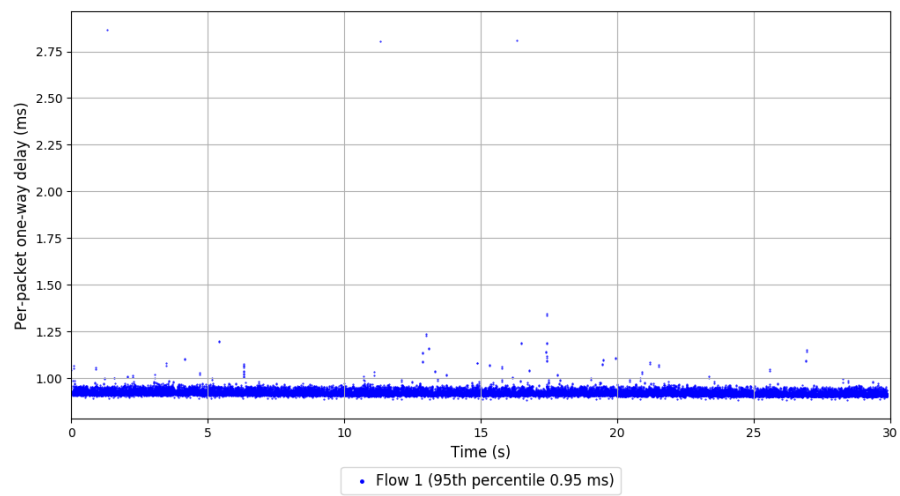
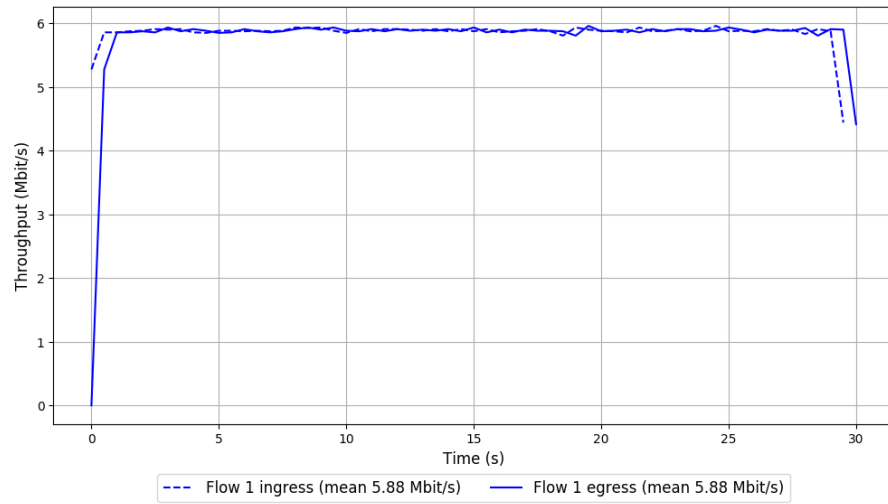
-- Flow 1:

Average throughput: 5.88 Mbit/s

95th percentile per-packet one-way delay: 0.947 ms

Loss rate: 0.01%

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



Run 4: Statistics of PCC-Expr

Start at: 2019-02-20 06:43:42

End at: 2019-02-20 06:44:12

Local clock offset: 0.194 ms

Remote clock offset: 0.223 ms

# Below is generated by plot.py at 2019-02-20 08:29:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.88 Mbit/s

95th percentile per-packet one-way delay: 0.983 ms

Loss rate: 0.01%

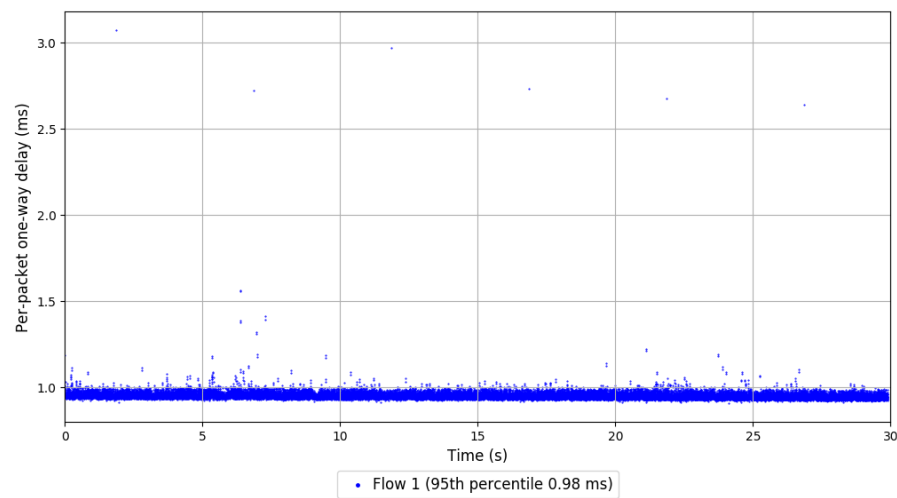
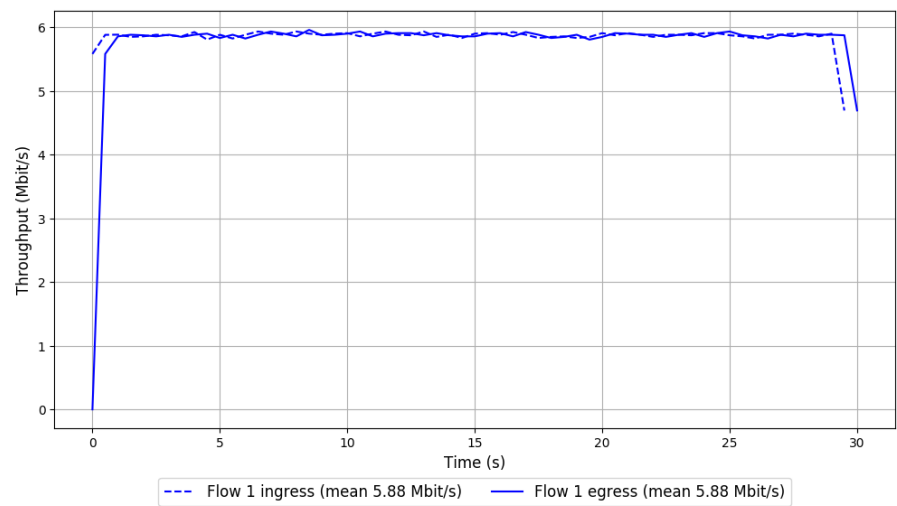
-- Flow 1:

Average throughput: 5.88 Mbit/s

95th percentile per-packet one-way delay: 0.983 ms

Loss rate: 0.01%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-02-20 07:13:05

End at: 2019-02-20 07:13:35

Local clock offset: -2.712 ms

Remote clock offset: 0.211 ms

# Below is generated by plot.py at 2019-02-20 08:29:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.35 Mbit/s

95th percentile per-packet one-way delay: 1.134 ms

Loss rate: 0.01%

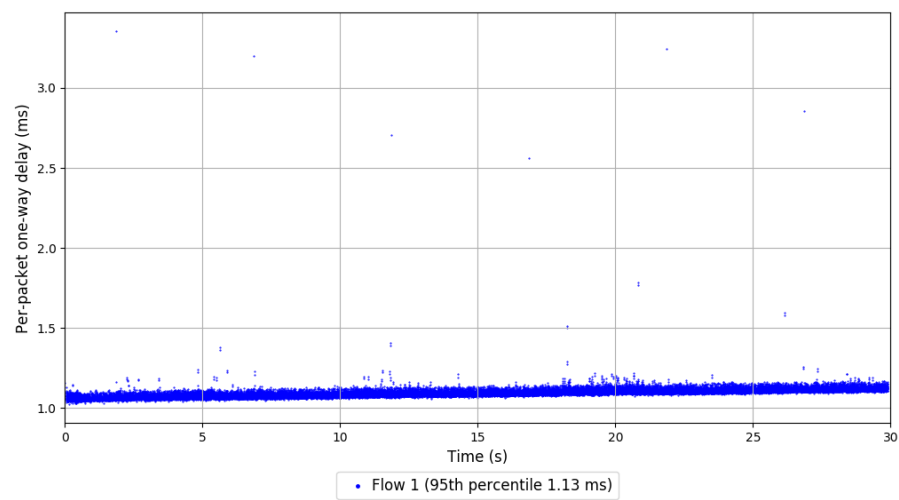
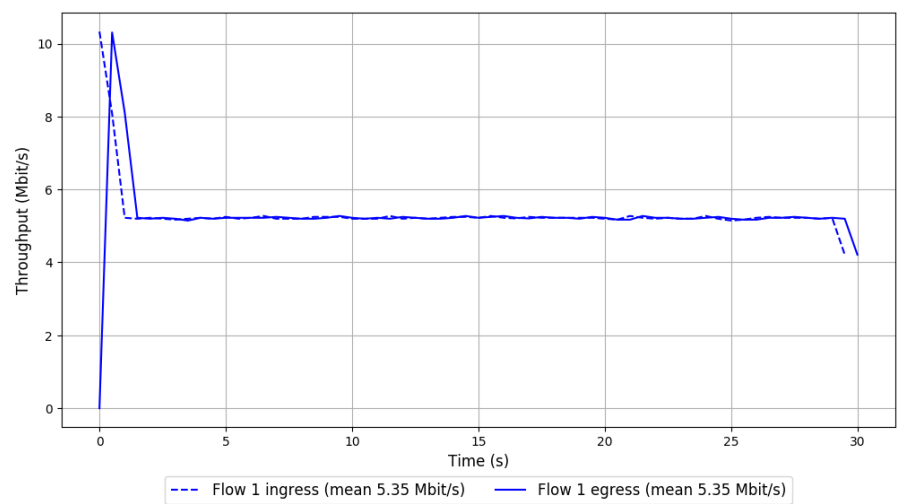
-- Flow 1:

Average throughput: 5.35 Mbit/s

95th percentile per-packet one-way delay: 1.134 ms

Loss rate: 0.01%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-02-20 05:23:59

End at: 2019-02-20 05:24:29

Local clock offset: 0.288 ms

Remote clock offset: 0.365 ms

# Below is generated by plot.py at 2019-02-20 08:29:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.87 Mbit/s

95th percentile per-packet one-way delay: 1.001 ms

Loss rate: 0.01%

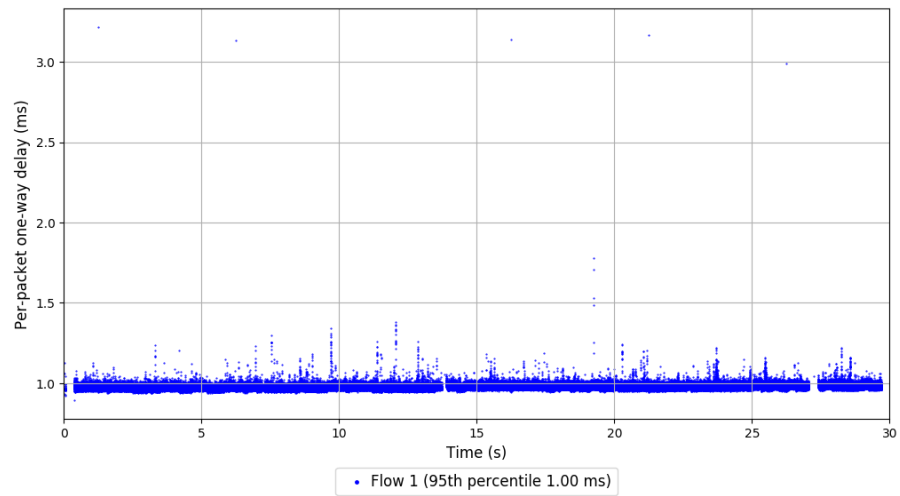
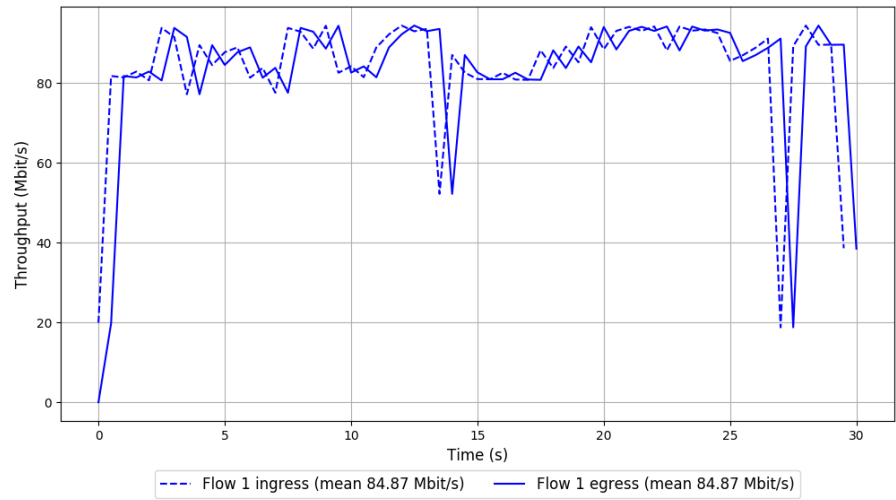
-- Flow 1:

Average throughput: 84.87 Mbit/s

95th percentile per-packet one-way delay: 1.001 ms

Loss rate: 0.01%

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



Run 2: Statistics of QUIC Cubic

Start at: 2019-02-20 05:53:18

End at: 2019-02-20 05:53:48

Local clock offset: 0.226 ms

Remote clock offset: 0.301 ms

# Below is generated by plot.py at 2019-02-20 08:29:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 82.57 Mbit/s

95th percentile per-packet one-way delay: 1.008 ms

Loss rate: 0.01%

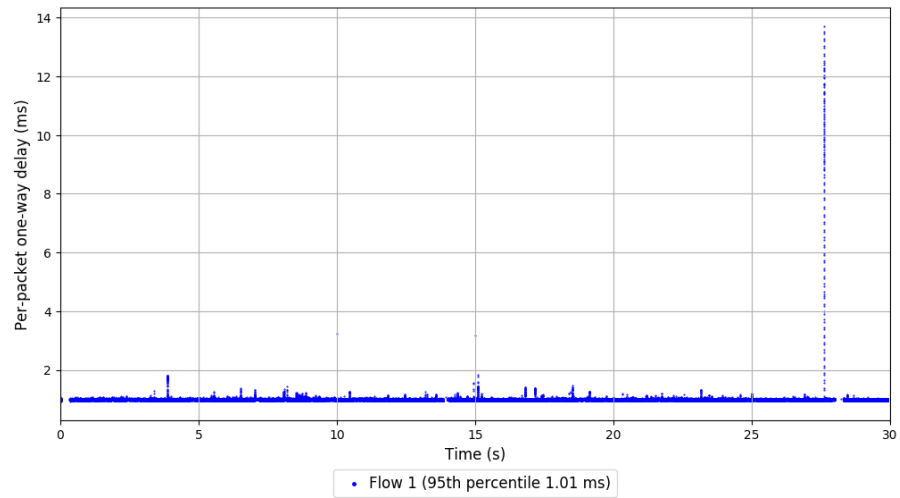
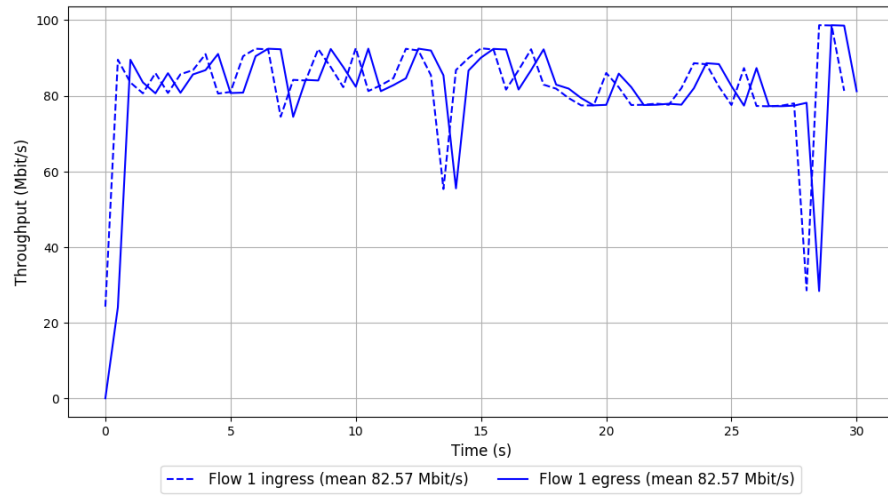
-- Flow 1:

Average throughput: 82.57 Mbit/s

95th percentile per-packet one-way delay: 1.008 ms

Loss rate: 0.01%

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



Run 3: Statistics of QUIC Cubic

Start at: 2019-02-20 06:22:39

End at: 2019-02-20 06:23:09

Local clock offset: 0.111 ms

Remote clock offset: 0.165 ms

# Below is generated by plot.py at 2019-02-20 08:29:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.80 Mbit/s

95th percentile per-packet one-way delay: 1.007 ms

Loss rate: 0.01%

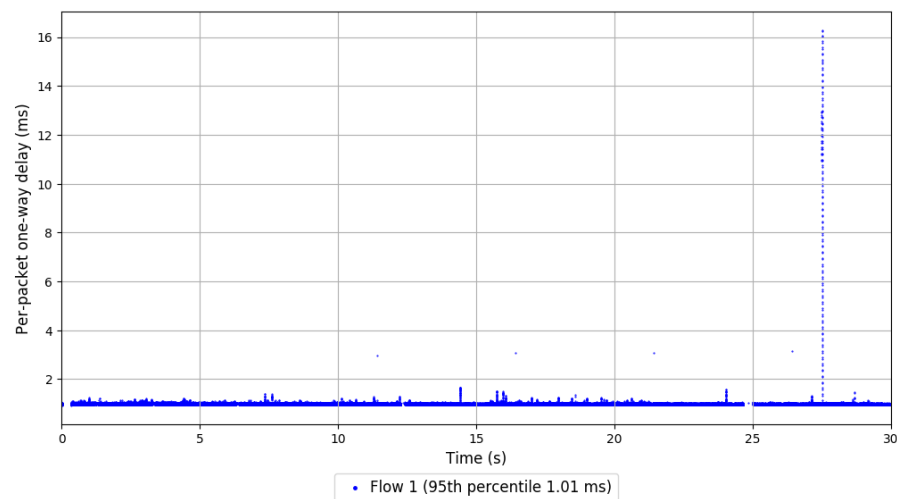
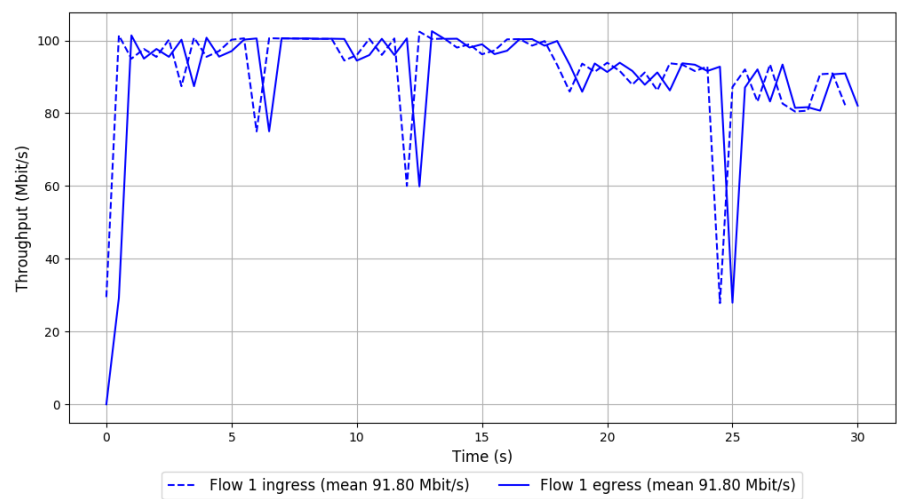
-- Flow 1:

Average throughput: 91.80 Mbit/s

95th percentile per-packet one-way delay: 1.007 ms

Loss rate: 0.01%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-02-20 06:52:00

End at: 2019-02-20 06:52:30

Local clock offset: 0.23 ms

Remote clock offset: 0.162 ms

# Below is generated by plot.py at 2019-02-20 08:29:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 81.32 Mbit/s

95th percentile per-packet one-way delay: 1.009 ms

Loss rate: 0.01%

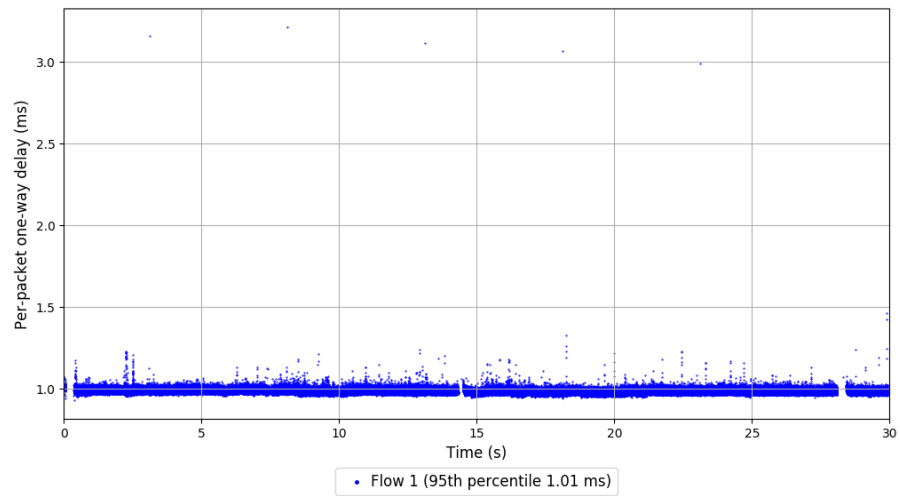
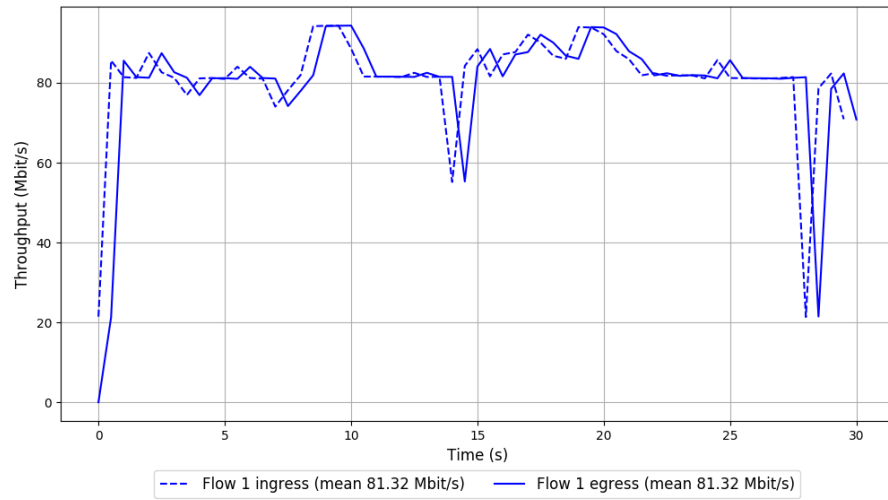
-- Flow 1:

Average throughput: 81.32 Mbit/s

95th percentile per-packet one-way delay: 1.009 ms

Loss rate: 0.01%

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



Run 5: Statistics of QUIC Cubic

Start at: 2019-02-20 07:21:26

End at: 2019-02-20 07:21:56

Local clock offset: -3.521 ms

Remote clock offset: 0.198 ms

# Below is generated by plot.py at 2019-02-20 08:29:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.75 Mbit/s

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

Loss rate: 0.01%

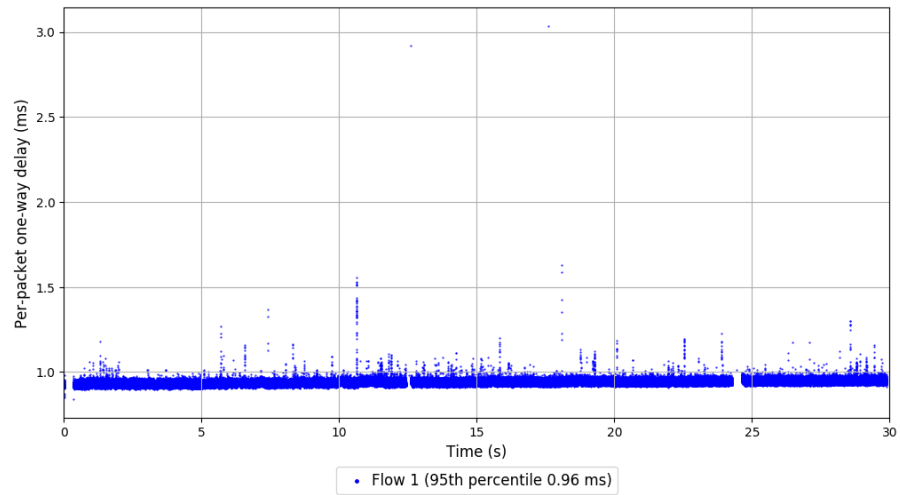
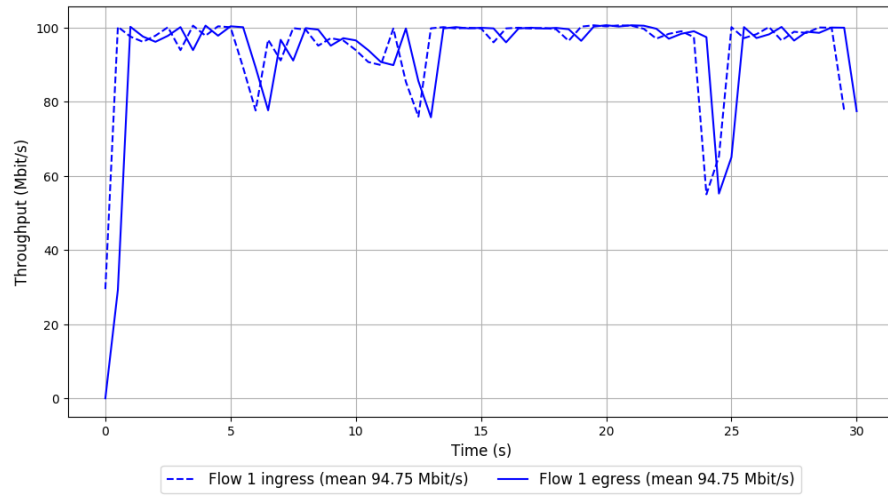
-- Flow 1:

Average throughput: 94.75 Mbit/s

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

Loss rate: 0.01%

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

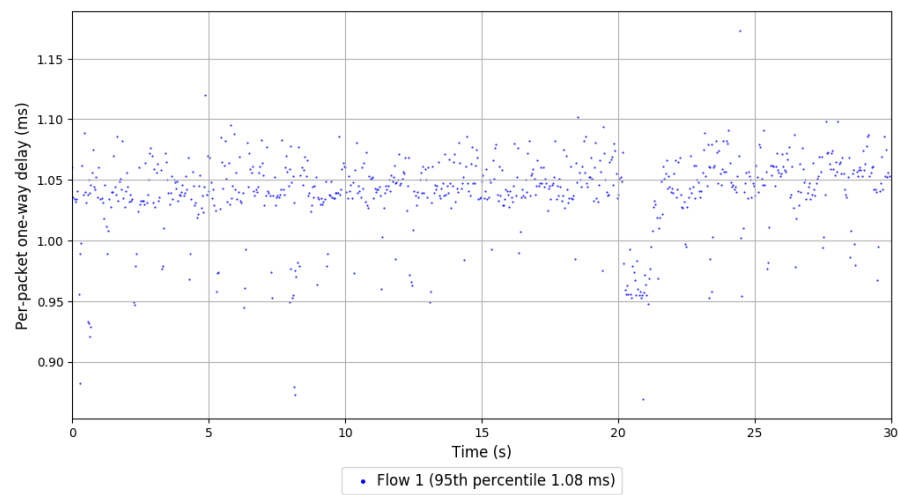
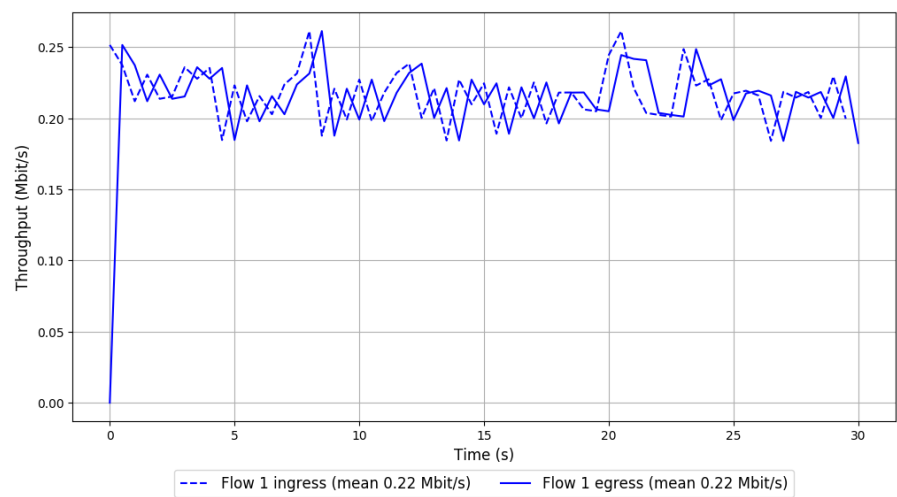


```
Run 1: Statistics of SCReAM

Start at: 2019-02-20 05:22:46
End at: 2019-02-20 05:23:16
Local clock offset: 0.291 ms
Remote clock offset: 0.36 ms

# Below is generated by plot.py at 2019-02-20 08:29:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.079 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.079 ms
Loss rate: 0.13%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-02-20 05:52:05

End at: 2019-02-20 05:52:35

Local clock offset: 0.215 ms

Remote clock offset: 0.36 ms

# Below is generated by plot.py at 2019-02-20 08:29:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

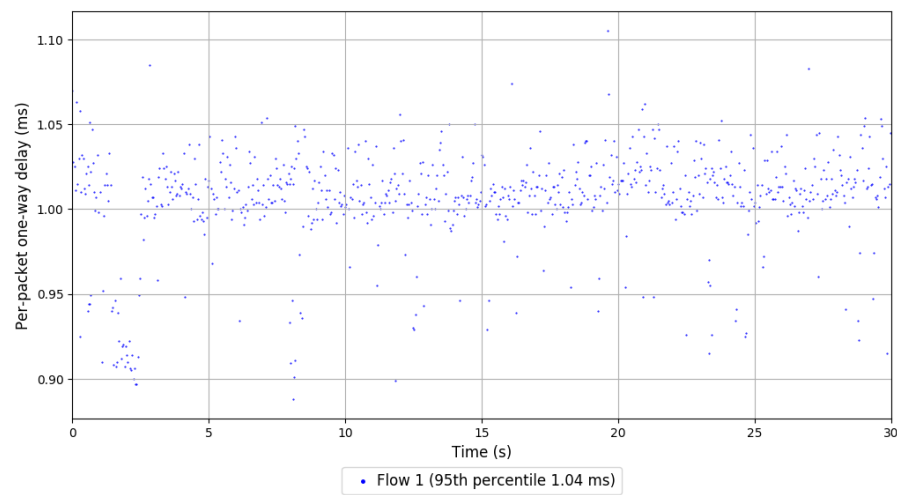
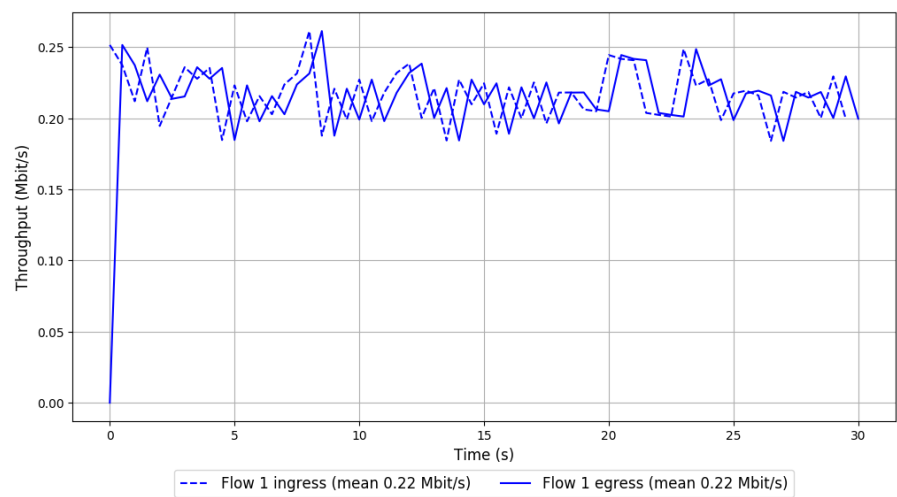
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-02-20 06:21:26

End at: 2019-02-20 06:21:56

Local clock offset: 0.095 ms

Remote clock offset: 0.171 ms

# Below is generated by plot.py at 2019-02-20 08:29:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.110 ms

Loss rate: 0.00%

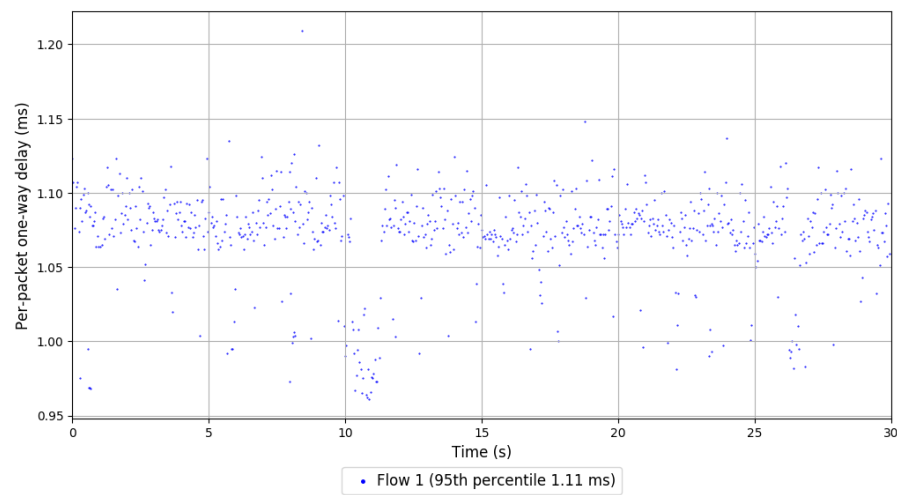
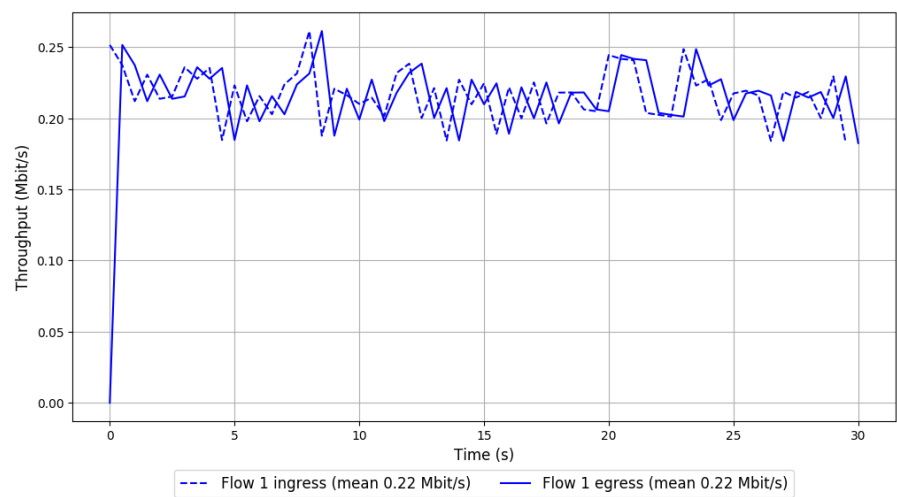
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.110 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-02-20 06:50:47

End at: 2019-02-20 06:51:17

Local clock offset: 0.242 ms

Remote clock offset: 0.162 ms

# Below is generated by plot.py at 2019-02-20 08:29:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.132 ms

Loss rate: 0.00%

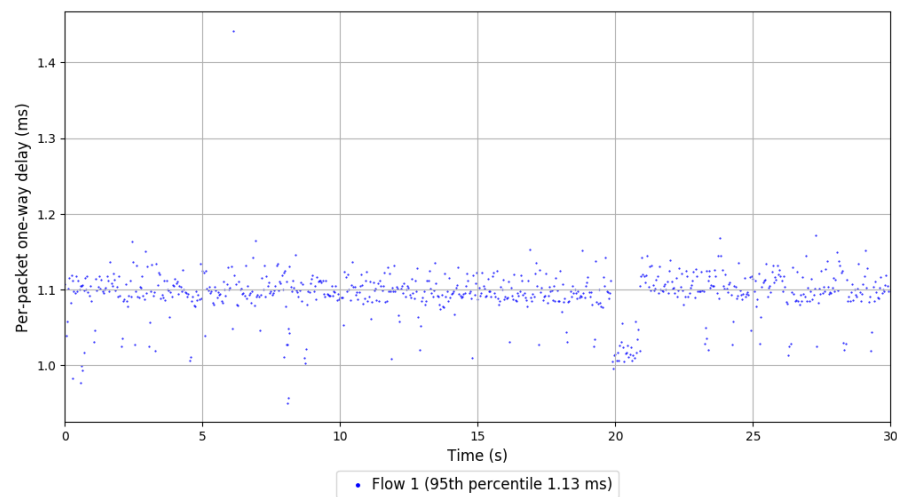
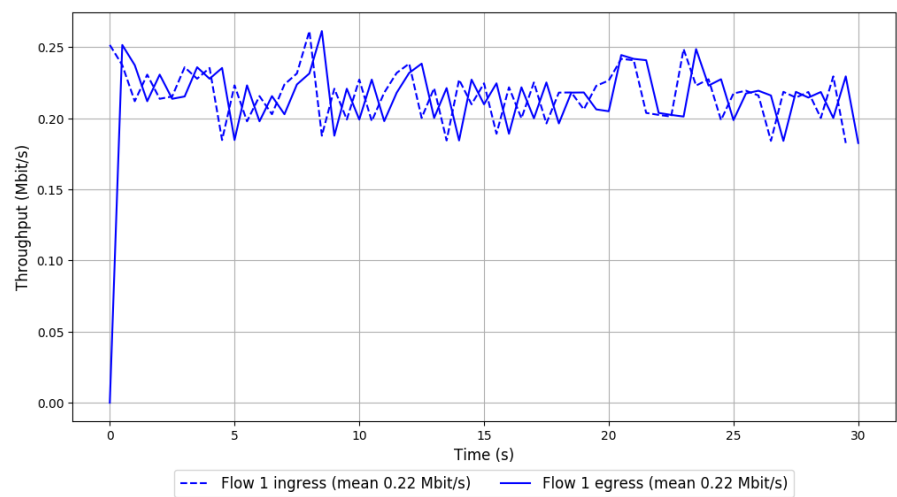
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.132 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-02-20 07:20:13

End at: 2019-02-20 07:20:43

Local clock offset: -3.404 ms

Remote clock offset: 0.15 ms

# Below is generated by plot.py at 2019-02-20 08:29:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.211 ms

Loss rate: 0.13%

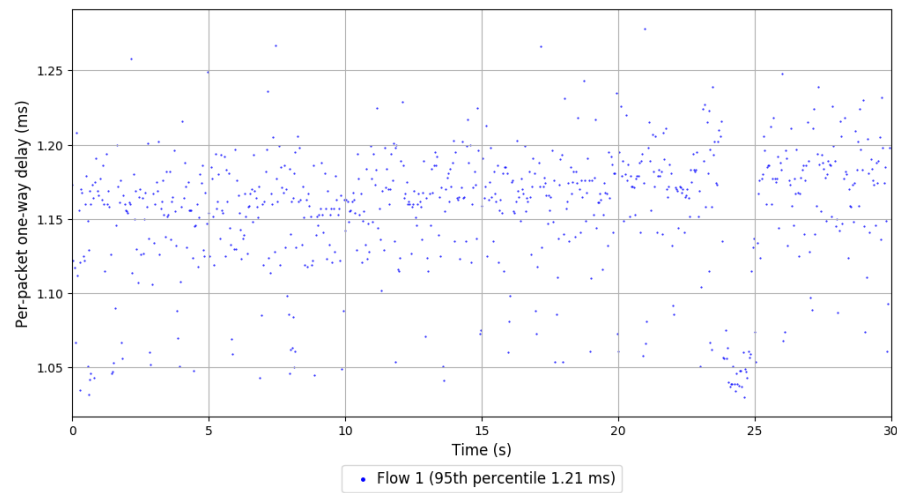
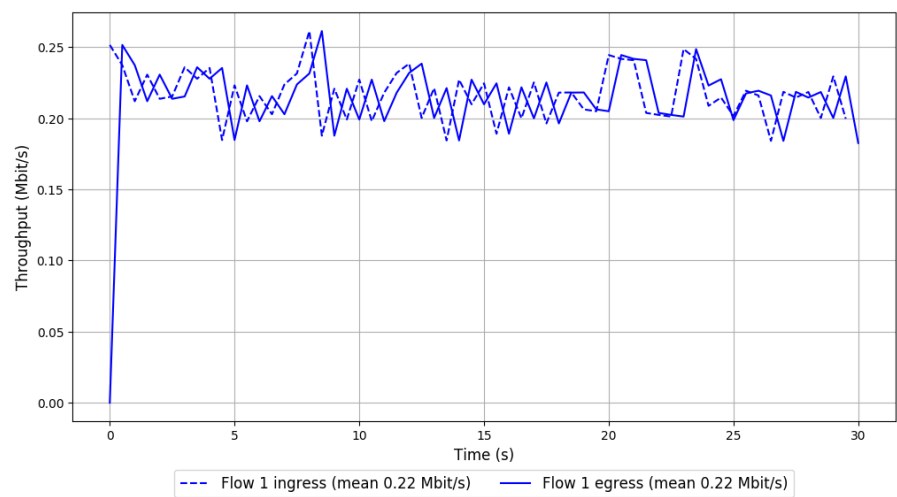
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.211 ms

Loss rate: 0.13%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-02-20 05:31:08

End at: 2019-02-20 05:31:38

Local clock offset: 0.208 ms

Remote clock offset: 0.519 ms

# Below is generated by plot.py at 2019-02-20 08:29:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.24 Mbit/s

95th percentile per-packet one-way delay: 1.095 ms

Loss rate: 0.04%

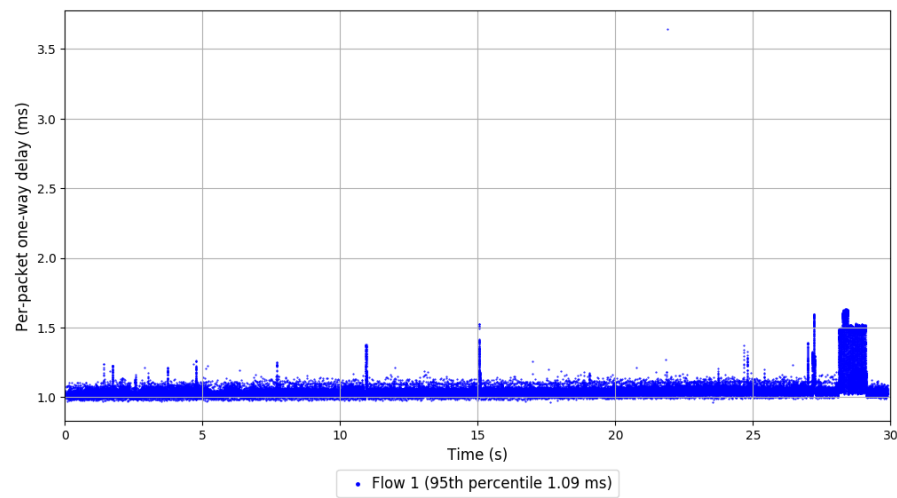
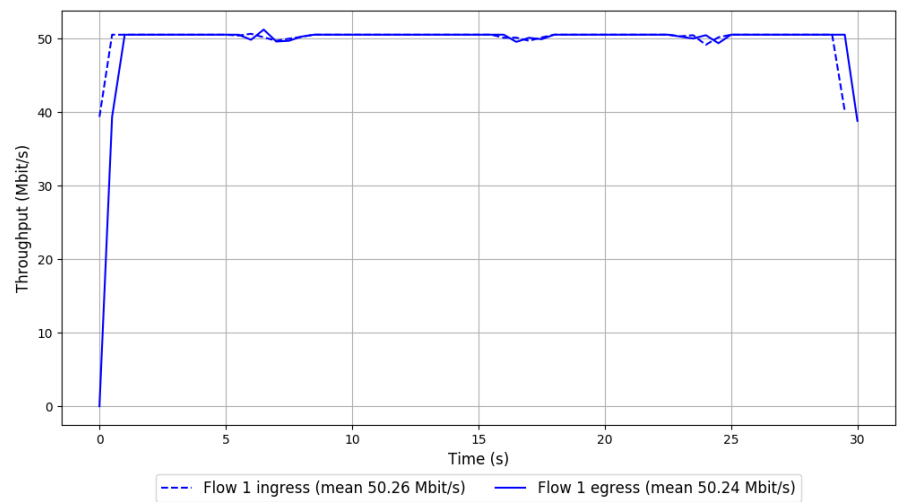
-- Flow 1:

Average throughput: 50.24 Mbit/s

95th percentile per-packet one-way delay: 1.095 ms

Loss rate: 0.04%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-02-20 06:00:26

End at: 2019-02-20 06:00:56

Local clock offset: 0.246 ms

Remote clock offset: 0.329 ms

# Below is generated by plot.py at 2019-02-20 08:29:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.23 Mbit/s

95th percentile per-packet one-way delay: 1.122 ms

Loss rate: 0.00%

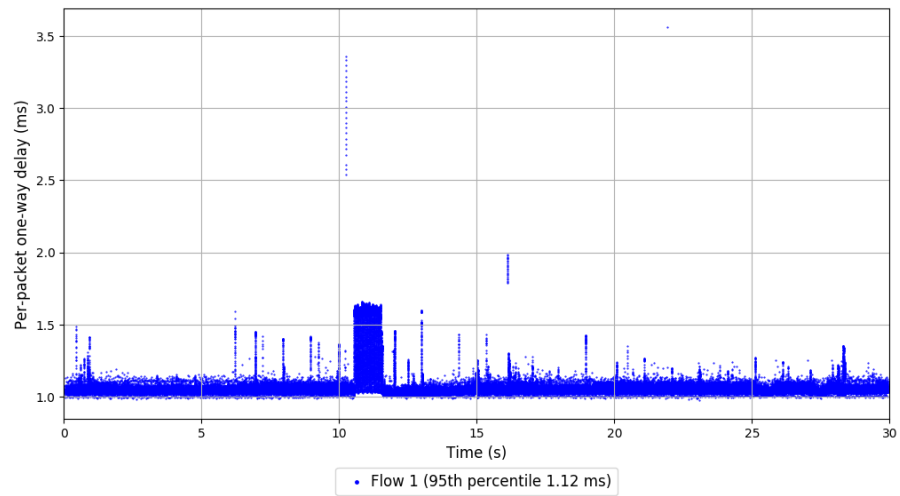
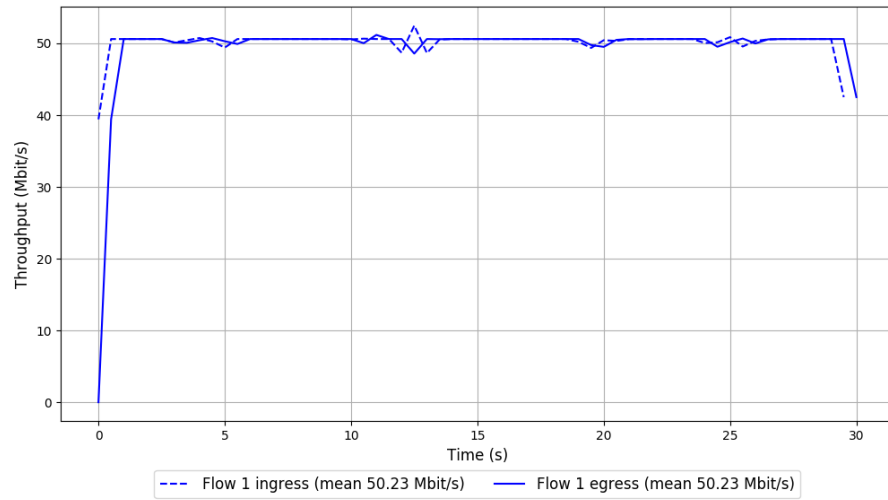
-- Flow 1:

Average throughput: 50.23 Mbit/s

95th percentile per-packet one-way delay: 1.122 ms

Loss rate: 0.00%

## Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-02-20 06:29:50

End at: 2019-02-20 06:30:20

Local clock offset: 0.153 ms

Remote clock offset: 0.225 ms

# Below is generated by plot.py at 2019-02-20 08:29:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.23 Mbit/s

95th percentile per-packet one-way delay: 0.984 ms

Loss rate: 0.00%

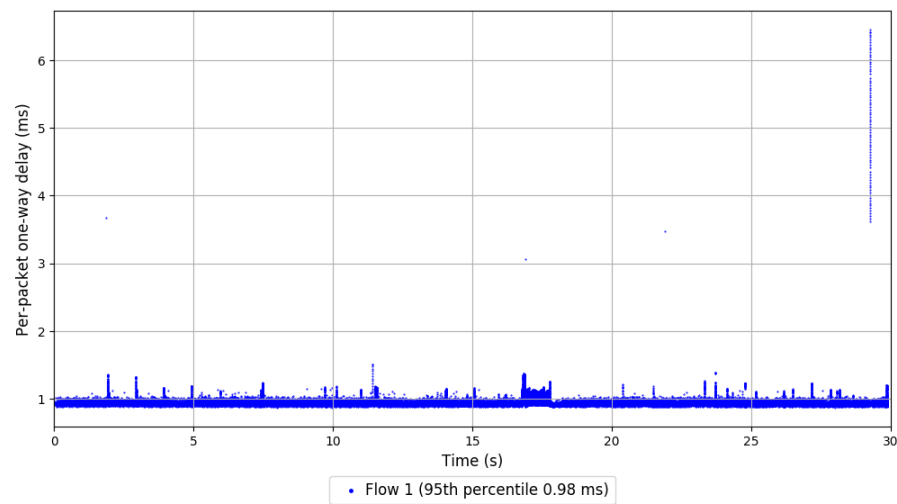
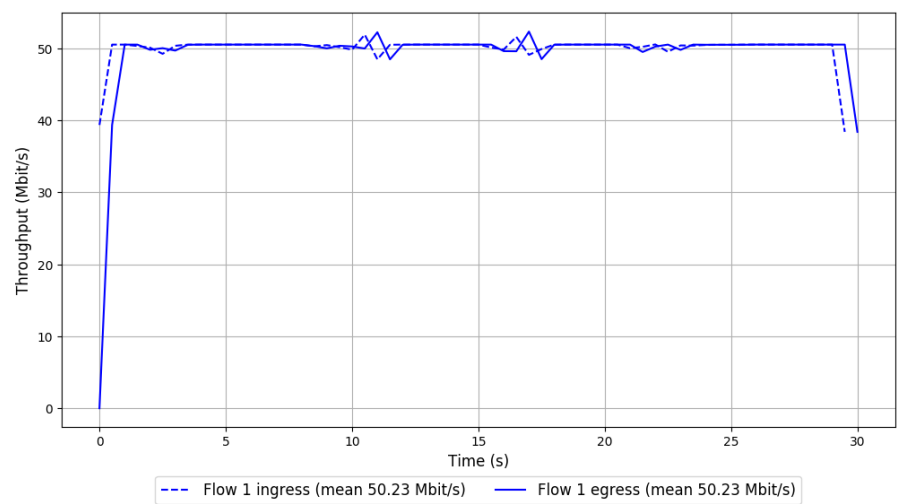
-- Flow 1:

Average throughput: 50.23 Mbit/s

95th percentile per-packet one-way delay: 0.984 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-02-20 06:59:09

End at: 2019-02-20 06:59:39

Local clock offset: 0.215 ms

Remote clock offset: 0.178 ms

# Below is generated by plot.py at 2019-02-20 08:29:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.24 Mbit/s

95th percentile per-packet one-way delay: 1.037 ms

Loss rate: 0.00%

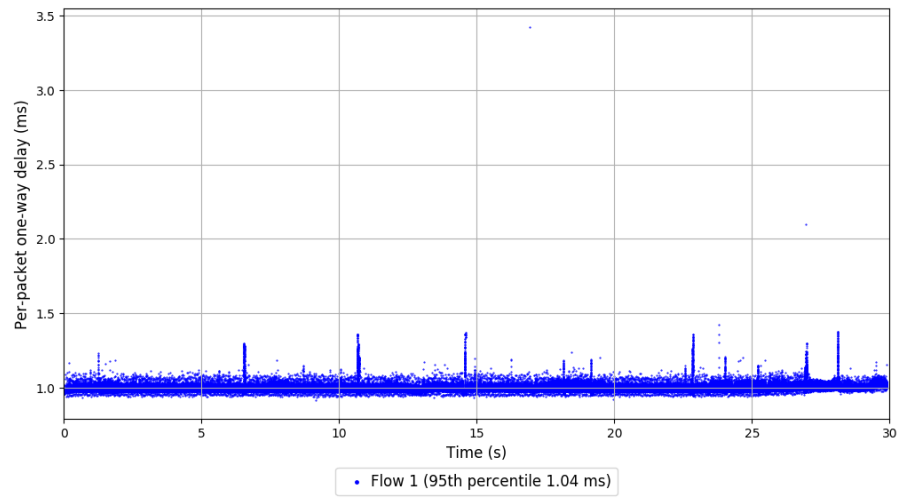
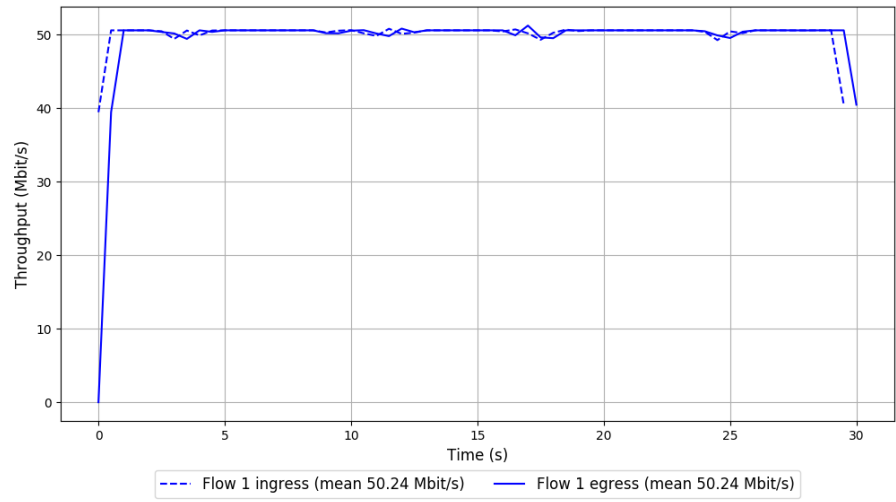
-- Flow 1:

Average throughput: 50.24 Mbit/s

95th percentile per-packet one-way delay: 1.037 ms

Loss rate: 0.00%

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



Run 5: Statistics of Sprout

Start at: 2019-02-20 07:28:39

End at: 2019-02-20 07:29:09

Local clock offset: -3.97 ms

Remote clock offset: 0.069 ms

# Below is generated by plot.py at 2019-02-20 08:29:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.25 Mbit/s

95th percentile per-packet one-way delay: 1.084 ms

Loss rate: 0.00%

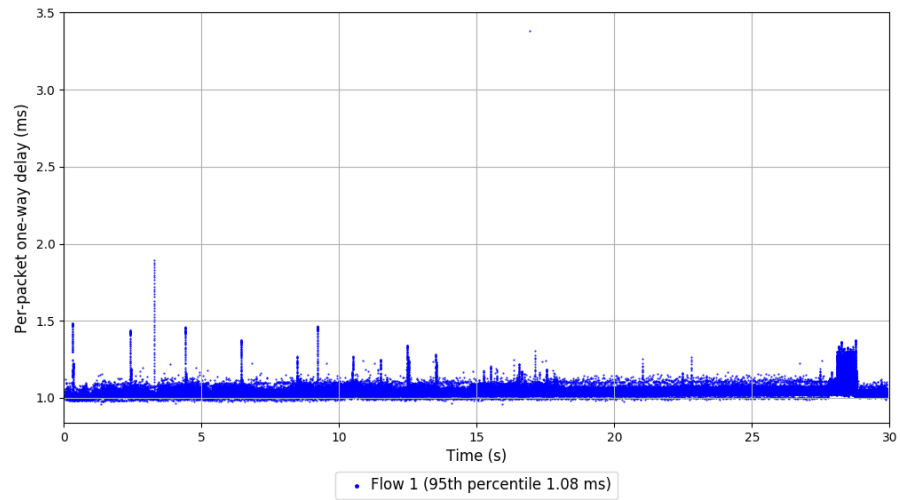
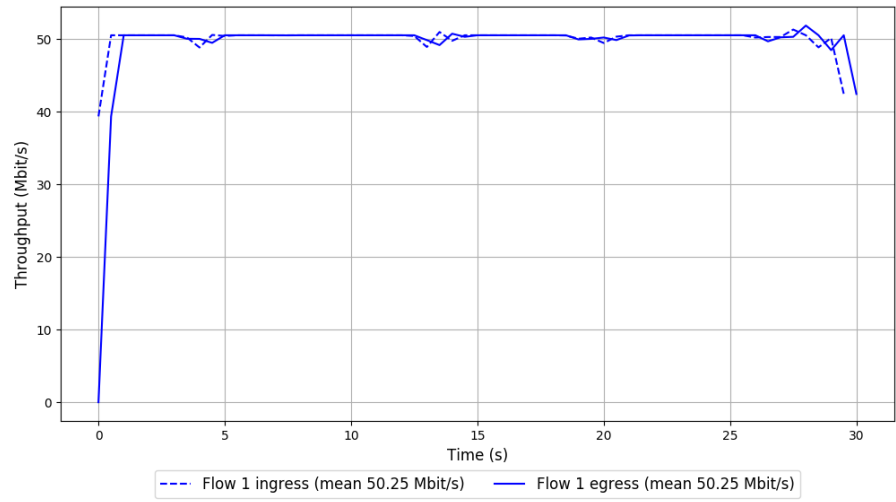
-- Flow 1:

Average throughput: 50.25 Mbit/s

95th percentile per-packet one-way delay: 1.084 ms

Loss rate: 0.00%

# Run 5: Report of Sprout — Data Link

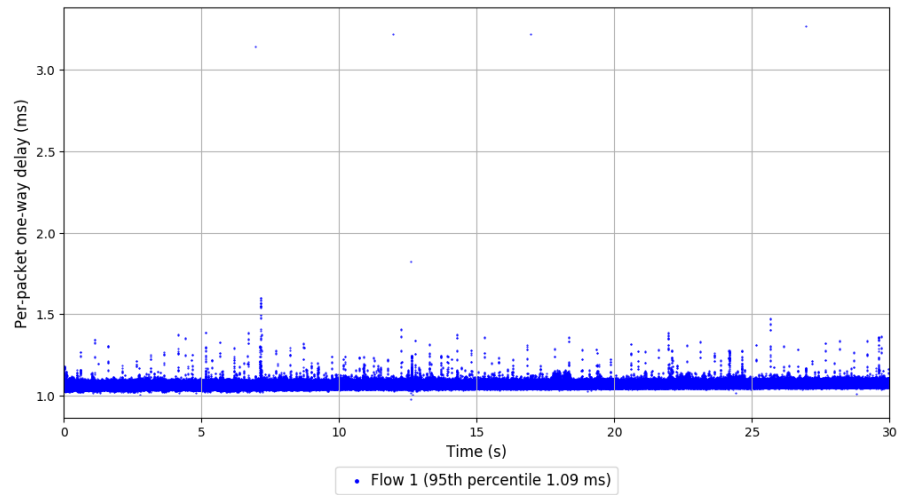
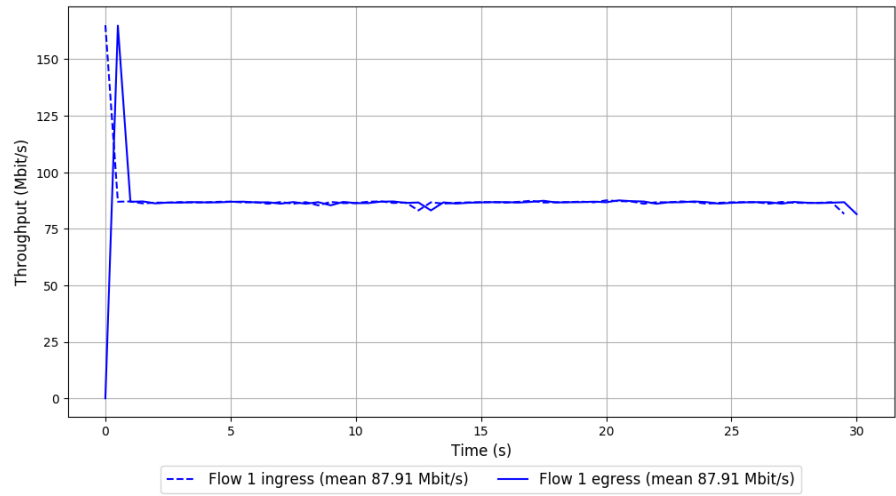


```
Run 1: Statistics of TaoVA-100x

Start at: 2019-02-20 05:28:29
End at: 2019-02-20 05:28:59
Local clock offset: 0.242 ms
Remote clock offset: 0.402 ms

# Below is generated by plot.py at 2019-02-20 08:29:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.91 Mbit/s
95th percentile per-packet one-way delay: 1.092 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 87.91 Mbit/s
95th percentile per-packet one-way delay: 1.092 ms
Loss rate: 0.01%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-02-20 05:57:50

End at: 2019-02-20 05:58:20

Local clock offset: 0.248 ms

Remote clock offset: 0.42 ms

# Below is generated by plot.py at 2019-02-20 08:29:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 10.33 Mbit/s

95th percentile per-packet one-way delay: 0.979 ms

Loss rate: 0.00%

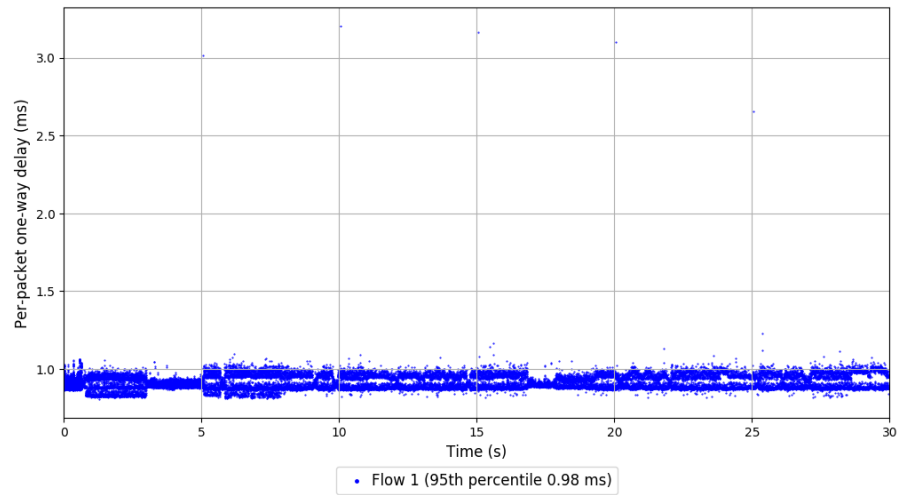
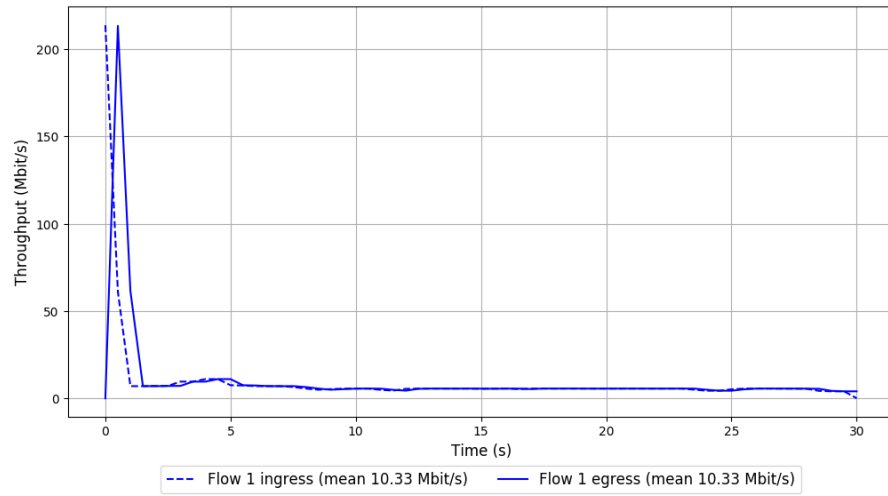
-- Flow 1:

Average throughput: 10.33 Mbit/s

95th percentile per-packet one-way delay: 0.979 ms

Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-02-20 06:27:10

End at: 2019-02-20 06:27:40

Local clock offset: 0.13 ms

Remote clock offset: 0.288 ms

# Below is generated by plot.py at 2019-02-20 08:29:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 14.41 Mbit/s

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

Loss rate: 0.00%

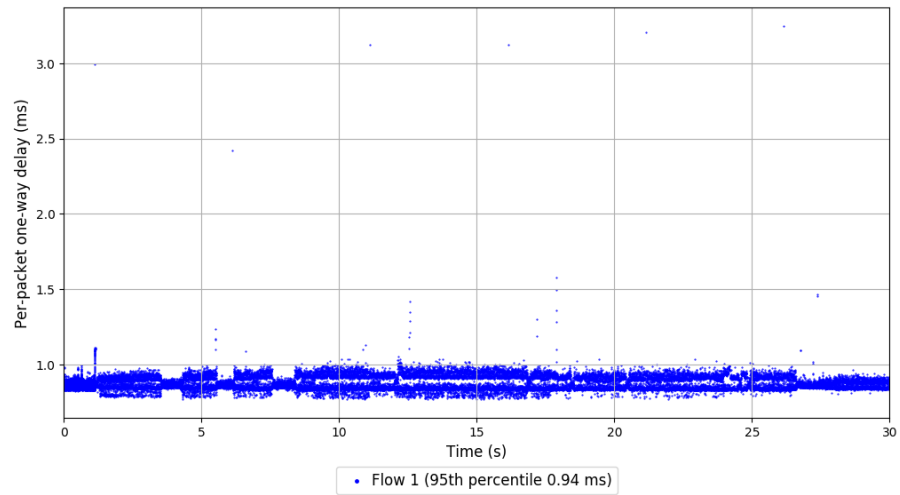
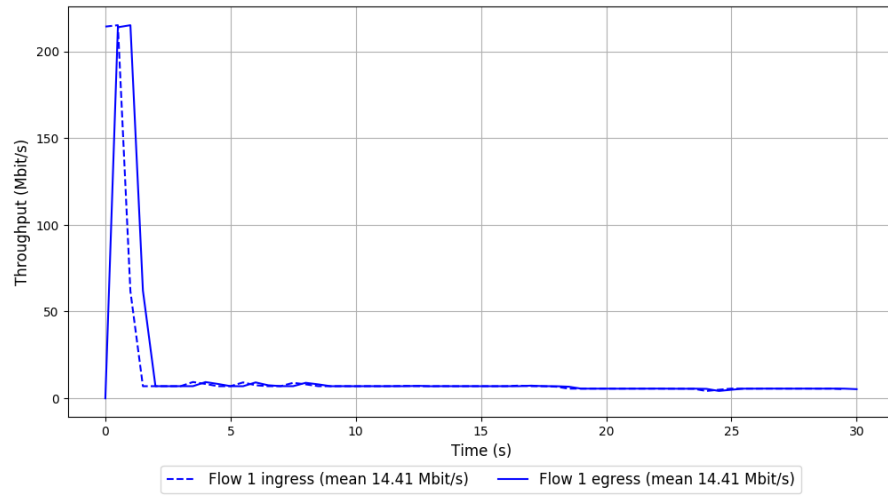
-- Flow 1:

Average throughput: 14.41 Mbit/s

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

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-02-20 06:56:29

End at: 2019-02-20 06:56:59

Local clock offset: 0.23 ms

Remote clock offset: 0.222 ms

# Below is generated by plot.py at 2019-02-20 08:29:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 62.84 Mbit/s

95th percentile per-packet one-way delay: 0.956 ms

Loss rate: 0.00%

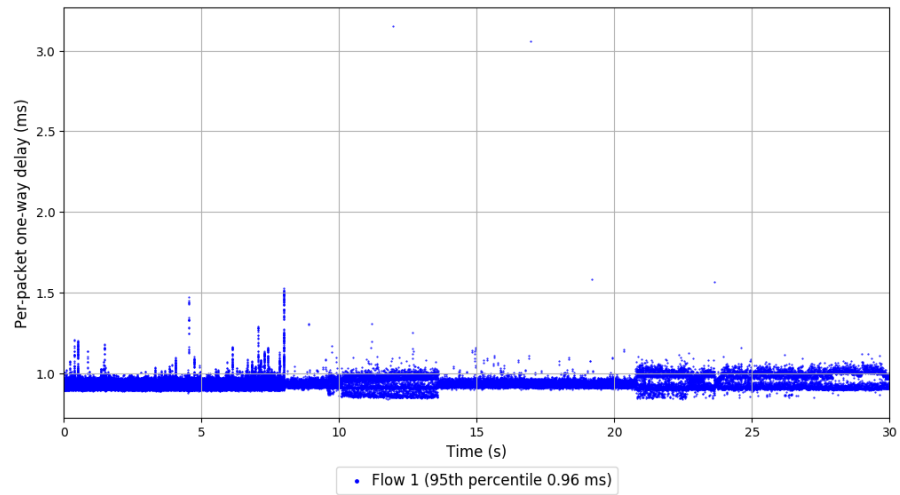
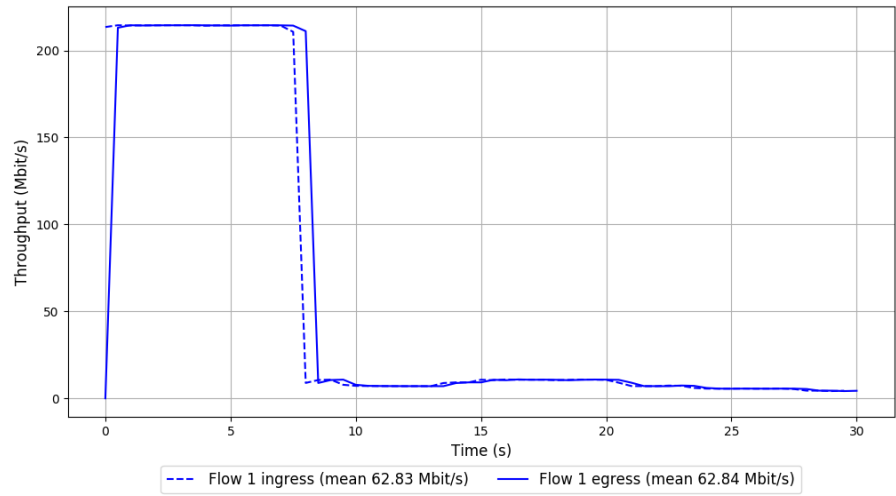
-- Flow 1:

Average throughput: 62.84 Mbit/s

95th percentile per-packet one-way delay: 0.956 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-02-20 07:25:54

End at: 2019-02-20 07:26:24

Local clock offset: -3.807 ms

Remote clock offset: 0.065 ms

# Below is generated by plot.py at 2019-02-20 08:29:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.49 Mbit/s

95th percentile per-packet one-way delay: 1.067 ms

Loss rate: 0.01%

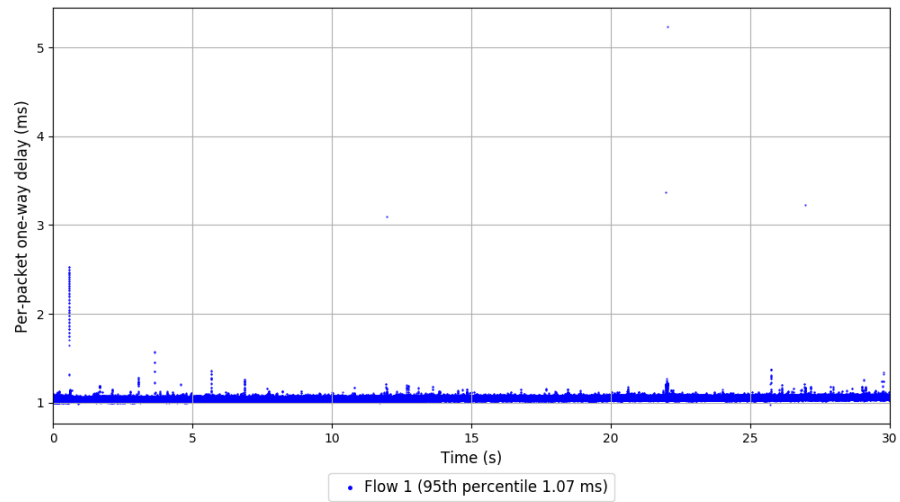
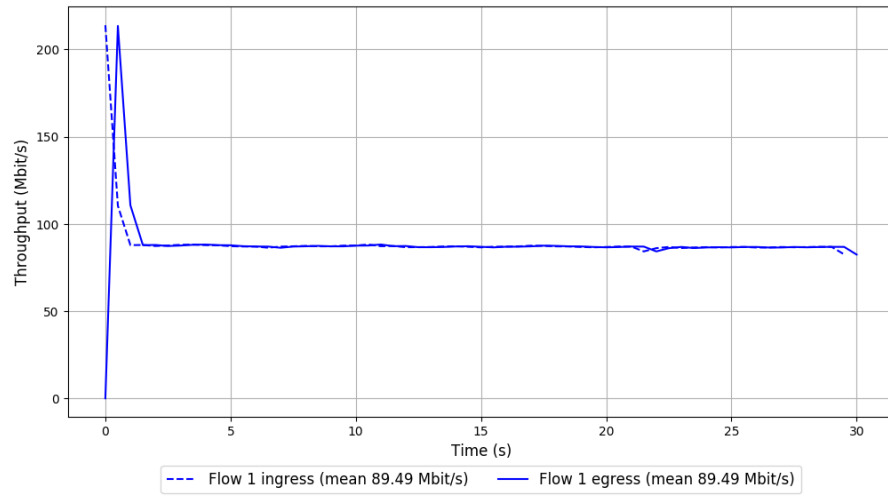
-- Flow 1:

Average throughput: 89.49 Mbit/s

95th percentile per-packet one-way delay: 1.067 ms

Loss rate: 0.01%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-02-20 05:14:21

End at: 2019-02-20 05:14:51

Local clock offset: 0.311 ms

Remote clock offset: 0.043 ms

# Below is generated by plot.py at 2019-02-20 08:29:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 221.82 Mbit/s

95th percentile per-packet one-way delay: 1.058 ms

Loss rate: 0.00%

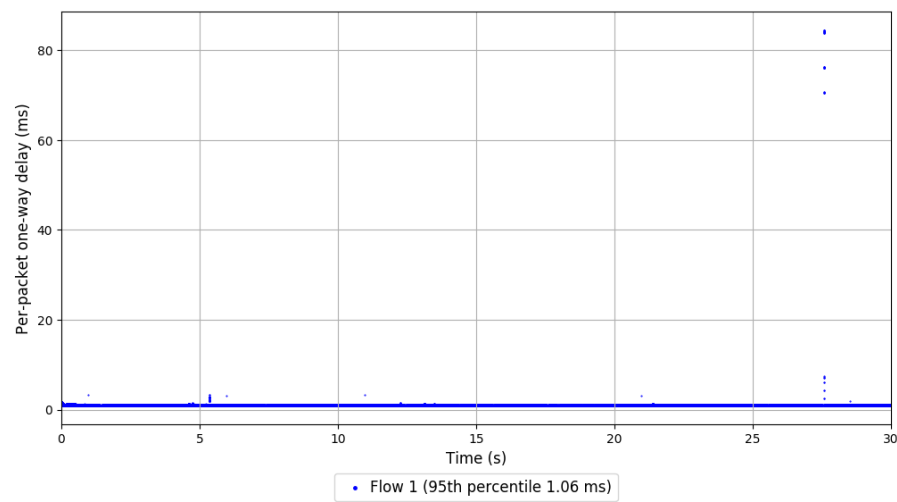
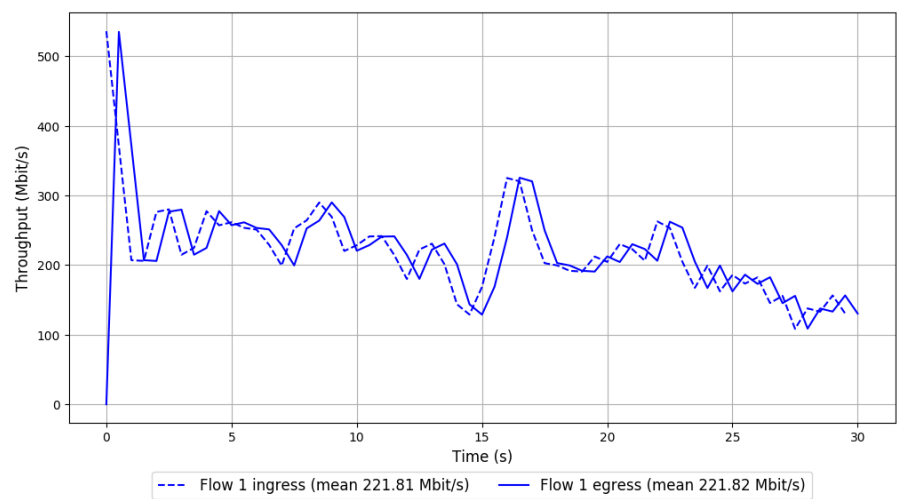
-- Flow 1:

Average throughput: 221.82 Mbit/s

95th percentile per-packet one-way delay: 1.058 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-02-20 05:43:41

End at: 2019-02-20 05:44:11

Local clock offset: 0.149 ms

Remote clock offset: 0.374 ms

# Below is generated by plot.py at 2019-02-20 08:29:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 201.51 Mbit/s

95th percentile per-packet one-way delay: 1.493 ms

Loss rate: 0.01%

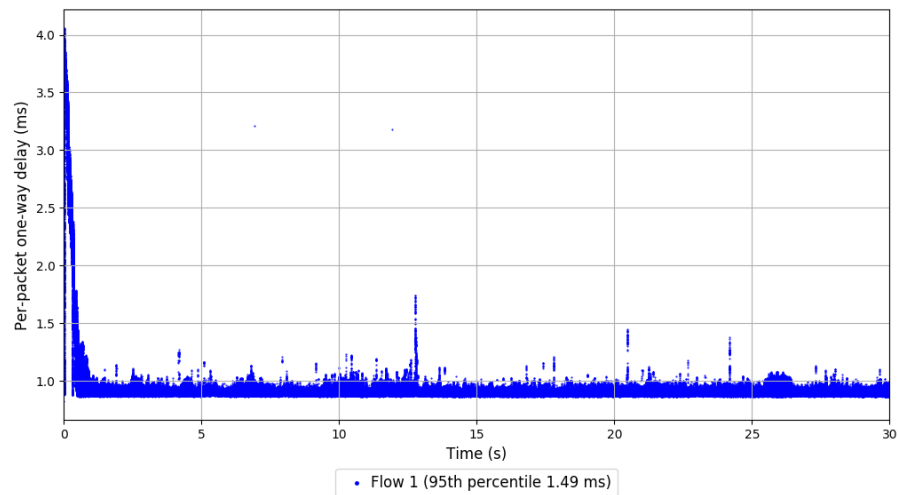
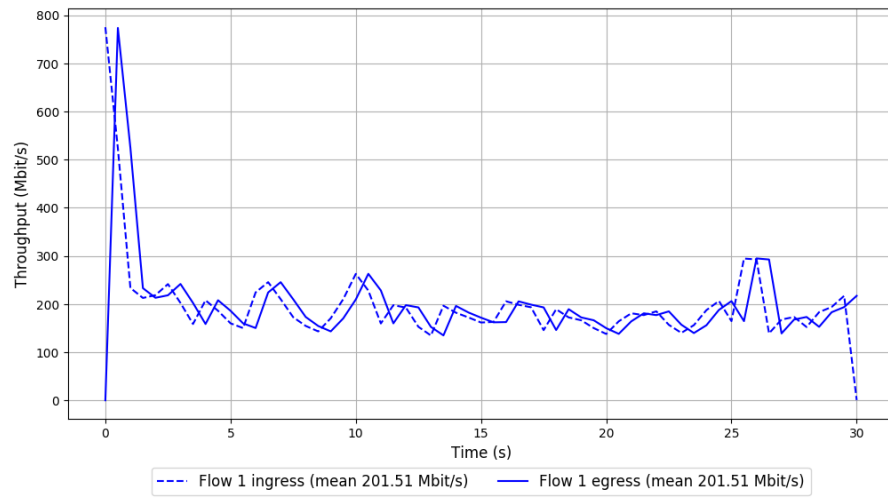
-- Flow 1:

Average throughput: 201.51 Mbit/s

95th percentile per-packet one-way delay: 1.493 ms

Loss rate: 0.01%

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



Run 3: Statistics of TCP Vegas

Start at: 2019-02-20 06:13:00

End at: 2019-02-20 06:13:30

Local clock offset: 0.126 ms

Remote clock offset: 0.343 ms

# Below is generated by plot.py at 2019-02-20 08:29:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 233.74 Mbit/s

95th percentile per-packet one-way delay: 1.294 ms

Loss rate: 0.01%

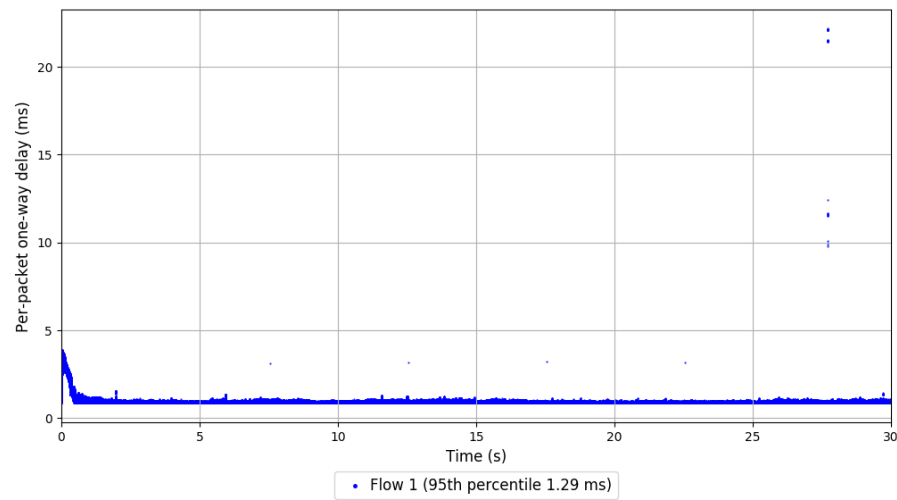
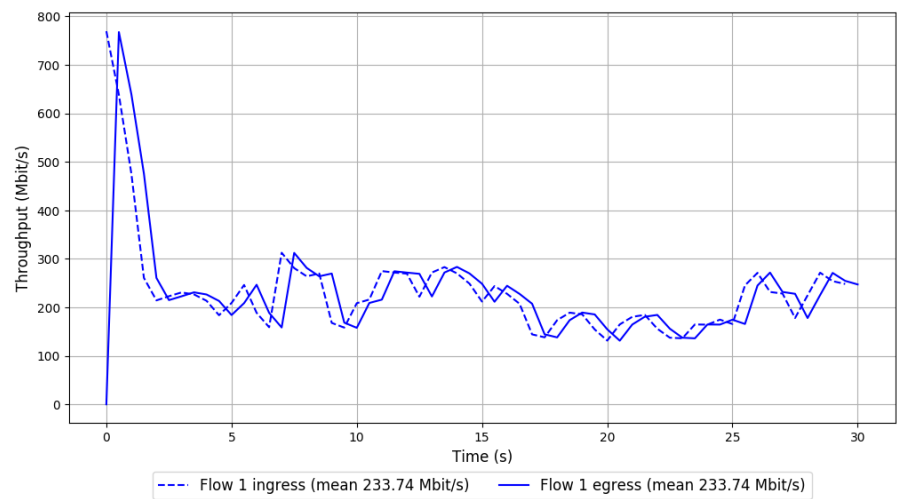
-- Flow 1:

Average throughput: 233.74 Mbit/s

95th percentile per-packet one-way delay: 1.294 ms

Loss rate: 0.01%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-02-20 06:42:22

End at: 2019-02-20 06:42:52

Local clock offset: 0.202 ms

Remote clock offset: 0.232 ms

# Below is generated by plot.py at 2019-02-20 08:29:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 229.77 Mbit/s

95th percentile per-packet one-way delay: 1.119 ms

Loss rate: 0.01%

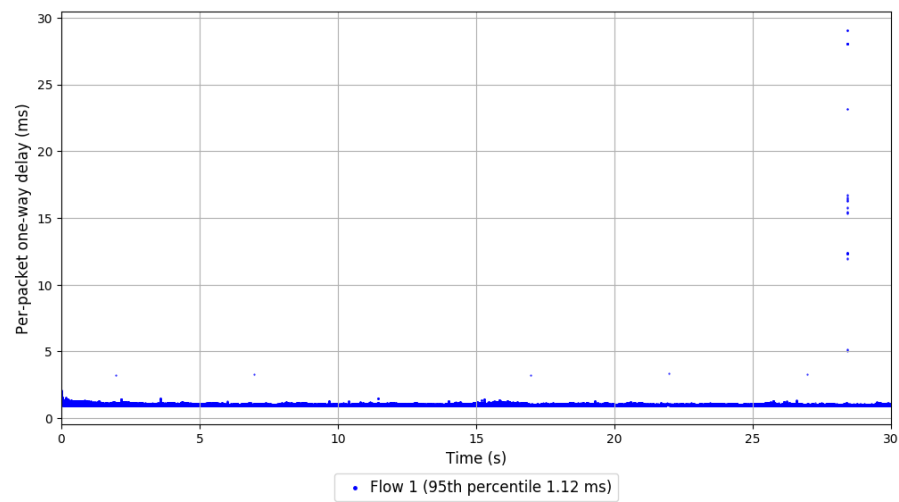
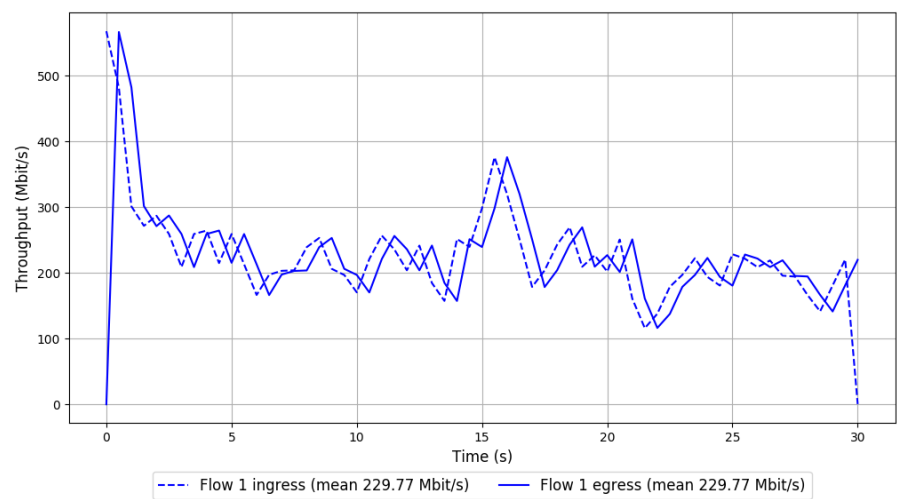
-- Flow 1:

Average throughput: 229.77 Mbit/s

95th percentile per-packet one-way delay: 1.119 ms

Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-02-20 07:11:45

End at: 2019-02-20 07:12:15

Local clock offset: -2.534 ms

Remote clock offset: 0.284 ms

# Below is generated by plot.py at 2019-02-20 08:29:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 185.57 Mbit/s

95th percentile per-packet one-way delay: 1.933 ms

Loss rate: 0.00%

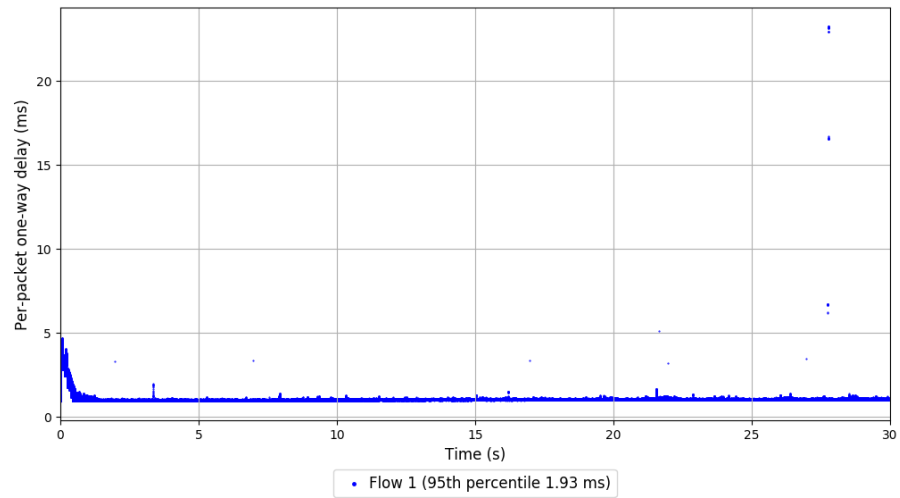
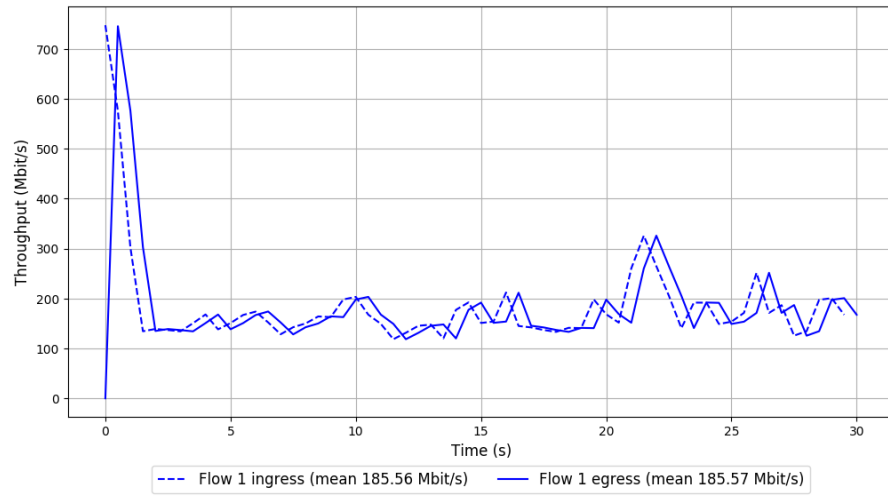
-- Flow 1:

Average throughput: 185.57 Mbit/s

95th percentile per-packet one-way delay: 1.933 ms

Loss rate: 0.00%

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



Run 1: Statistics of Verus

Start at: 2019-02-20 05:18:32

End at: 2019-02-20 05:19:02

Local clock offset: 0.306 ms

Remote clock offset: 0.174 ms

# Below is generated by plot.py at 2019-02-20 08:30:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 255.85 Mbit/s

95th percentile per-packet one-way delay: 2.531 ms

Loss rate: 0.00%

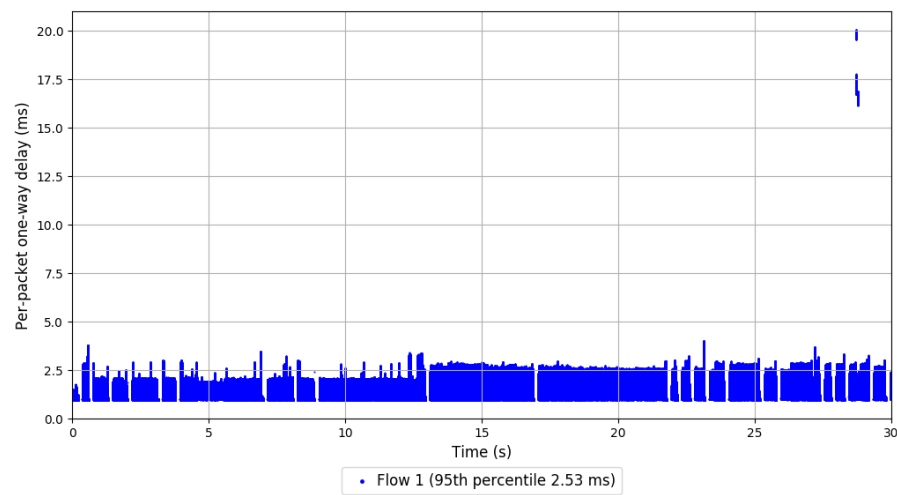
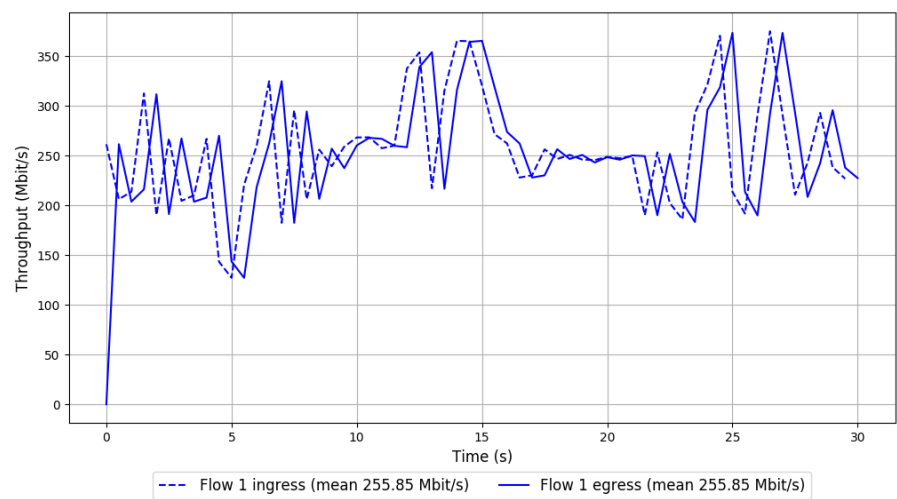
-- Flow 1:

Average throughput: 255.85 Mbit/s

95th percentile per-packet one-way delay: 2.531 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-02-20 05:47:49

End at: 2019-02-20 05:48:19

Local clock offset: 0.184 ms

Remote clock offset: 0.279 ms

# Below is generated by plot.py at 2019-02-20 08:32:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 305.32 Mbit/s

95th percentile per-packet one-way delay: 2.580 ms

Loss rate: 0.00%

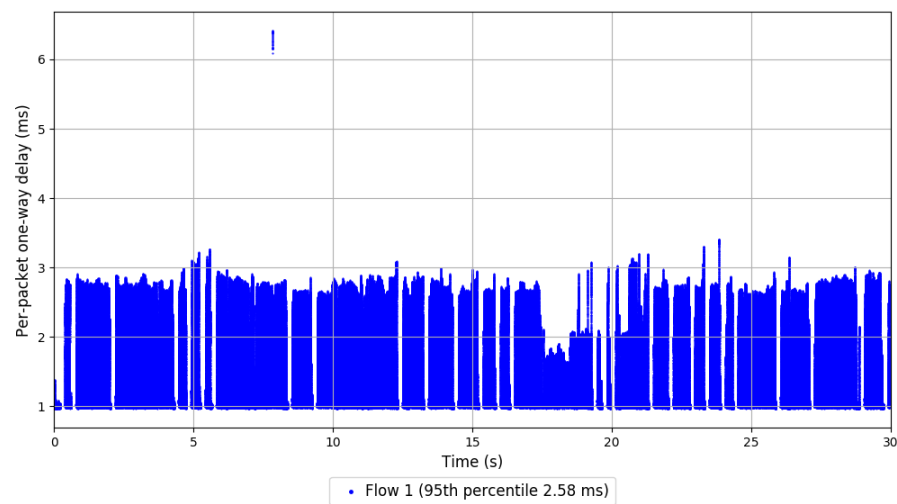
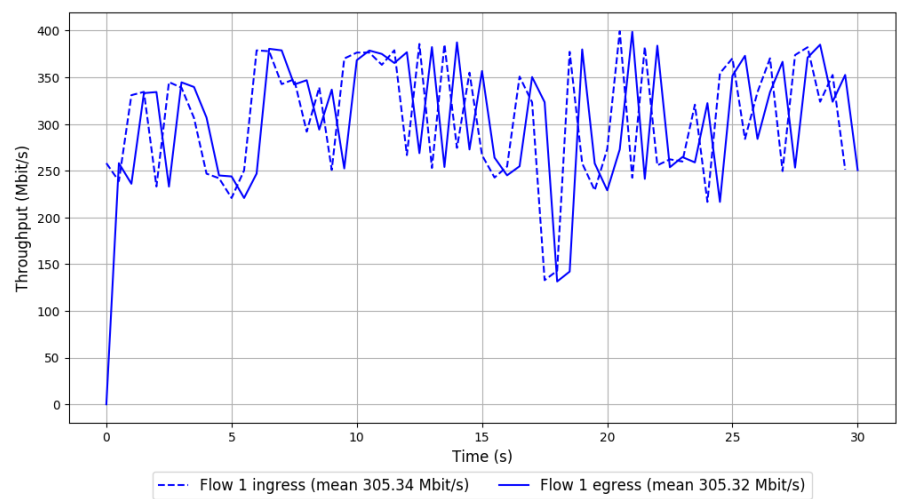
-- Flow 1:

Average throughput: 305.32 Mbit/s

95th percentile per-packet one-way delay: 2.580 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-02-20 06:17:10

End at: 2019-02-20 06:17:40

Local clock offset: 0.102 ms

Remote clock offset: 0.286 ms

# Below is generated by plot.py at 2019-02-20 08:32:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 294.39 Mbit/s

95th percentile per-packet one-way delay: 2.805 ms

Loss rate: 0.00%

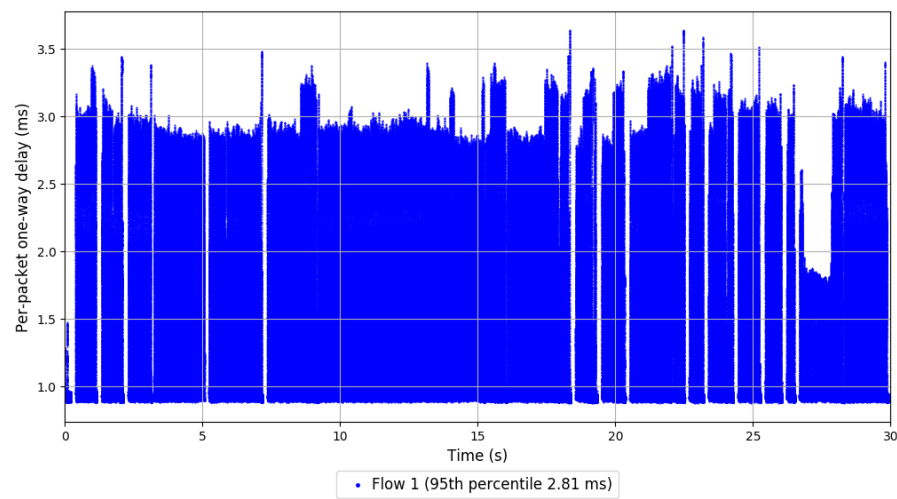
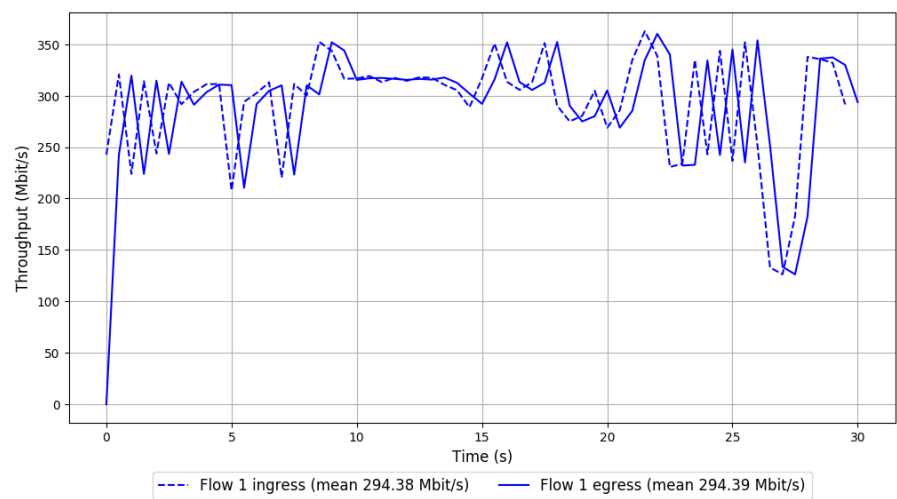
-- Flow 1:

Average throughput: 294.39 Mbit/s

95th percentile per-packet one-way delay: 2.805 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-02-20 06:46:32

End at: 2019-02-20 06:47:02

Local clock offset: 0.226 ms

Remote clock offset: 0.191 ms

# Below is generated by plot.py at 2019-02-20 08:32:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 259.72 Mbit/s

95th percentile per-packet one-way delay: 3.402 ms

Loss rate: 0.03%

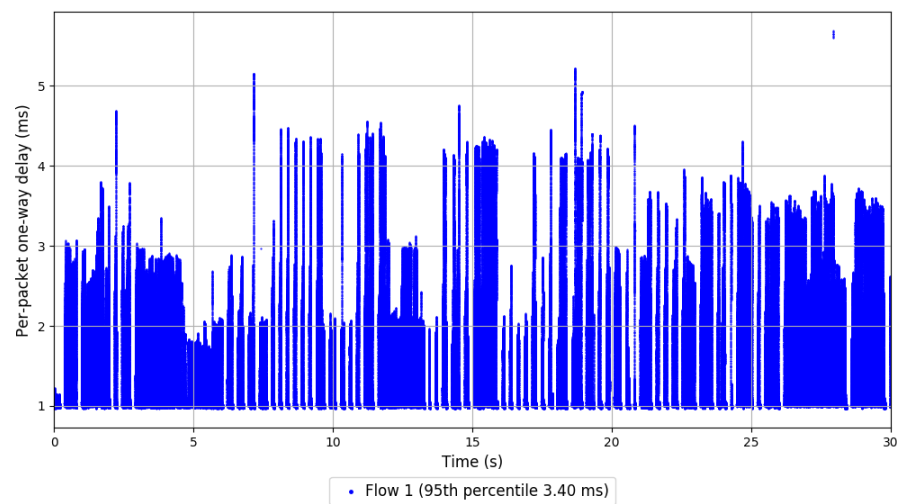
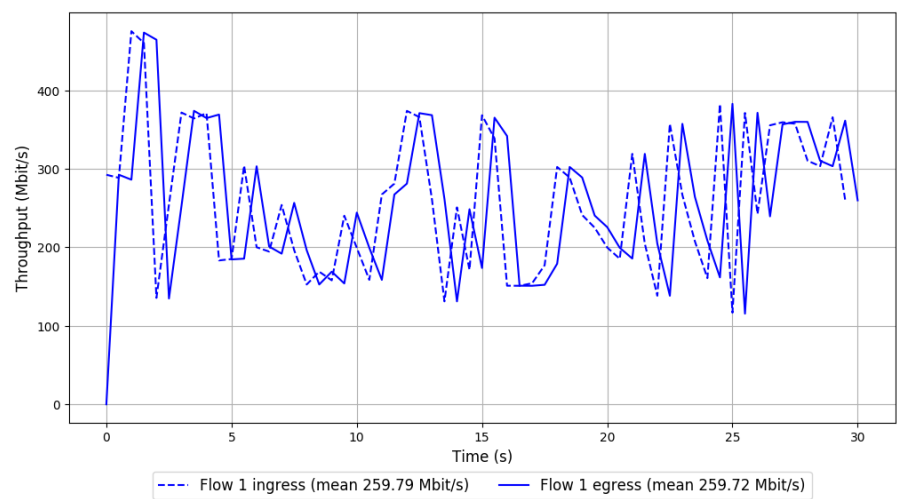
-- Flow 1:

Average throughput: 259.72 Mbit/s

95th percentile per-packet one-way delay: 3.402 ms

Loss rate: 0.03%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-02-20 07:15:56

End at: 2019-02-20 07:16:26

Local clock offset: -3.03 ms

Remote clock offset: 0.291 ms

# Below is generated by plot.py at 2019-02-20 08:32:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 307.31 Mbit/s

95th percentile per-packet one-way delay: 2.683 ms

Loss rate: 0.01%

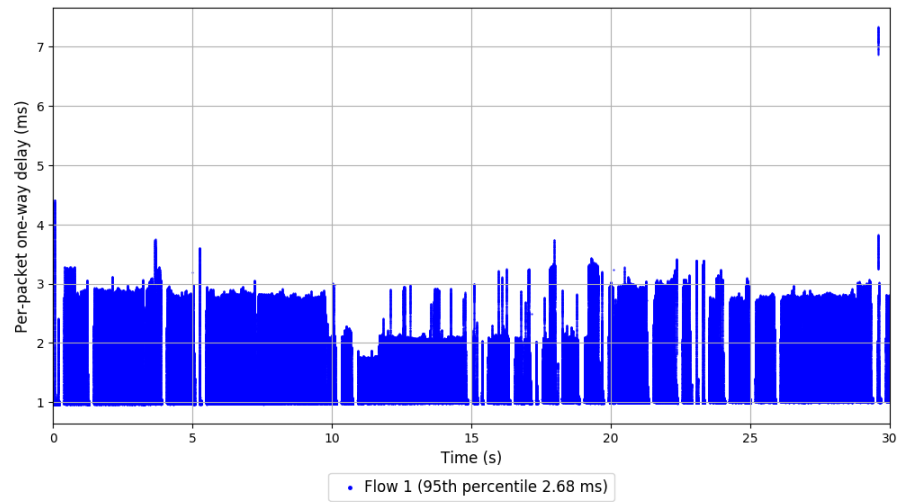
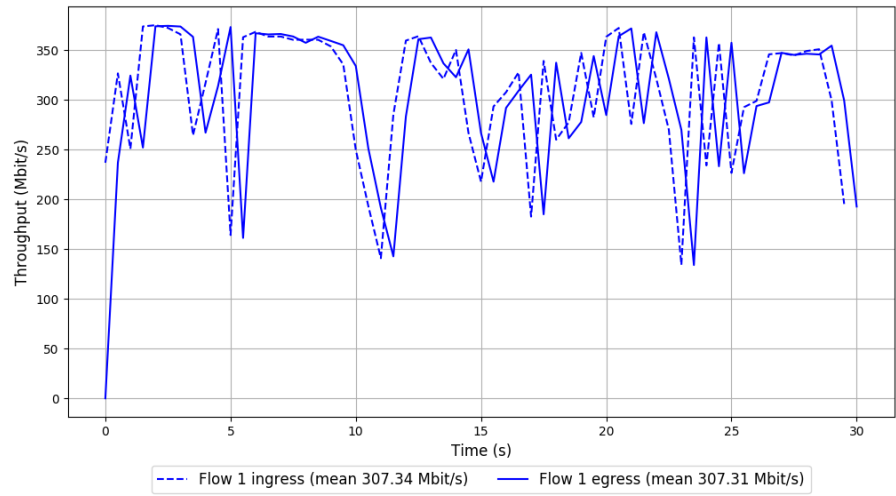
-- Flow 1:

Average throughput: 307.31 Mbit/s

95th percentile per-packet one-way delay: 2.683 ms

Loss rate: 0.01%

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



Run 1: Statistics of PCC-Vivace

Start at: 2019-02-20 05:29:47

End at: 2019-02-20 05:30:17

Local clock offset: 0.221 ms

Remote clock offset: 0.467 ms

# Below is generated by plot.py at 2019-02-20 08:32:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 177.86 Mbit/s

95th percentile per-packet one-way delay: 1.055 ms

Loss rate: 0.00%

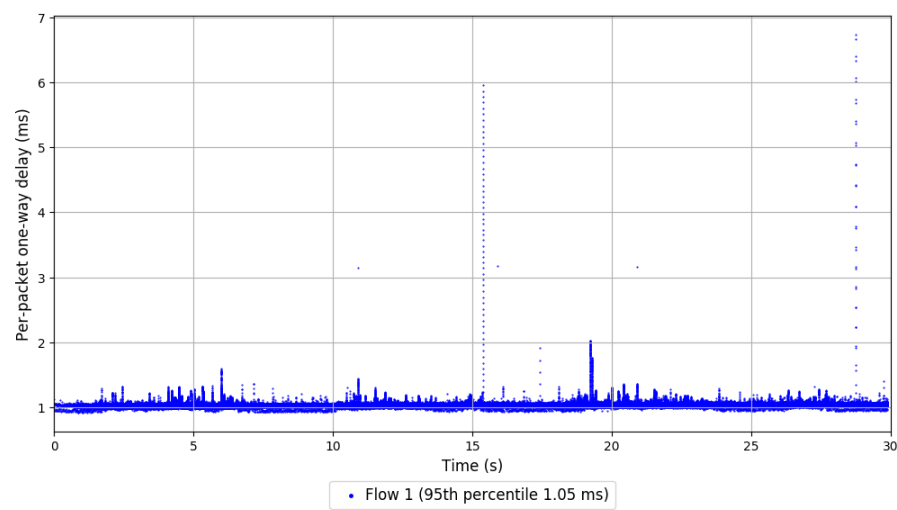
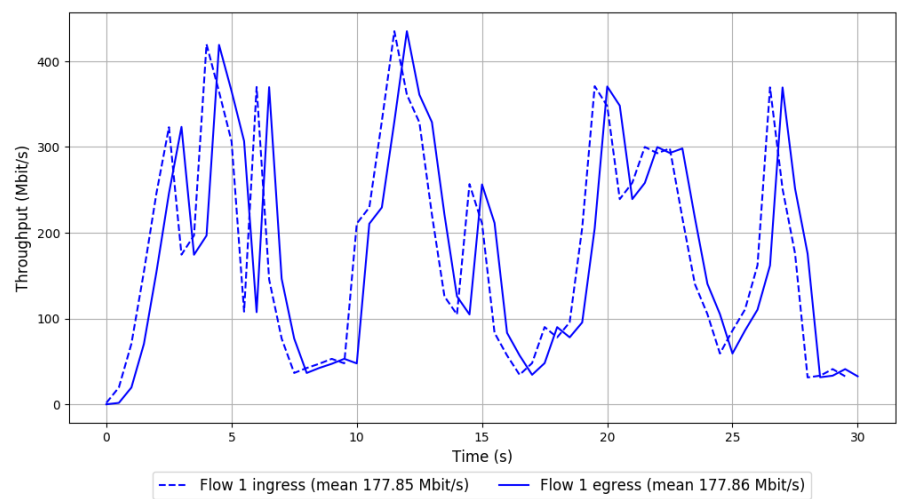
-- Flow 1:

Average throughput: 177.86 Mbit/s

95th percentile per-packet one-way delay: 1.055 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-02-20 05:59:03

End at: 2019-02-20 05:59:33

Local clock offset: 0.251 ms

Remote clock offset: 0.381 ms

# Below is generated by plot.py at 2019-02-20 08:32:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 208.45 Mbit/s

95th percentile per-packet one-way delay: 0.974 ms

Loss rate: 0.01%

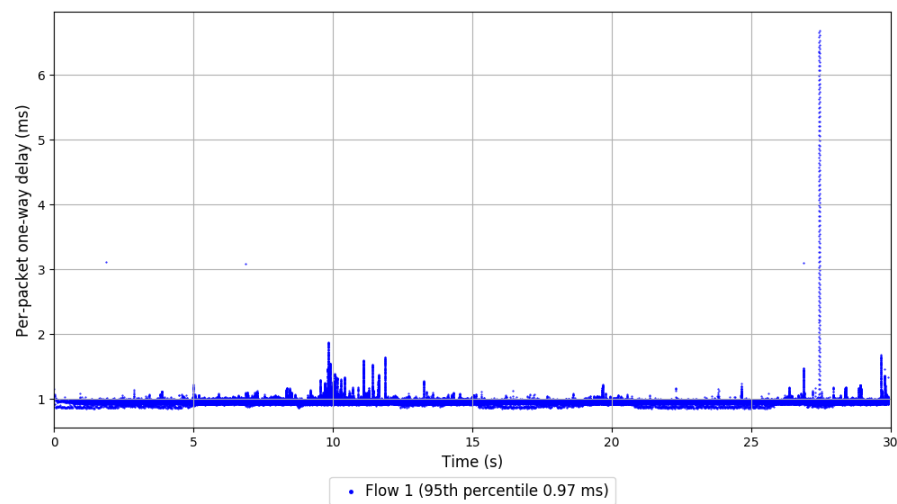
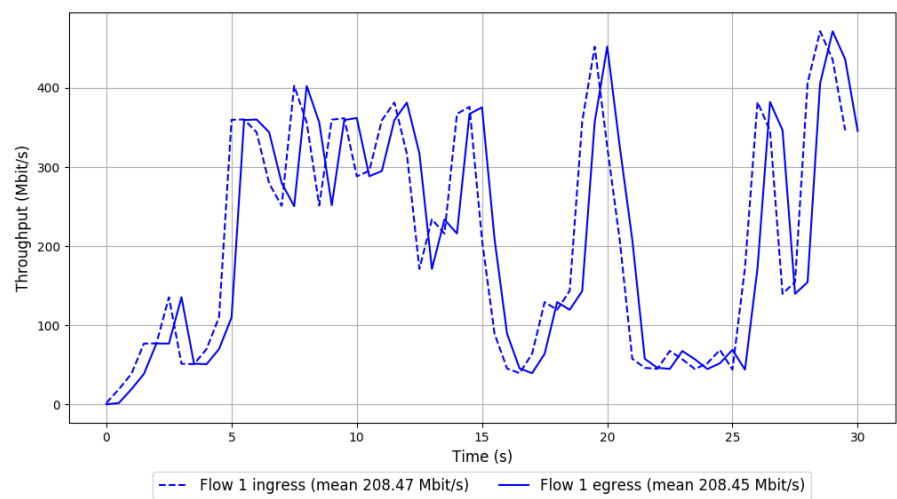
-- Flow 1:

Average throughput: 208.45 Mbit/s

95th percentile per-packet one-way delay: 0.974 ms

Loss rate: 0.01%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-02-20 06:28:24

End at: 2019-02-20 06:28:54

Local clock offset: 0.156 ms

Remote clock offset: 0.141 ms

# Below is generated by plot.py at 2019-02-20 08:32:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 281.63 Mbit/s

95th percentile per-packet one-way delay: 1.042 ms

Loss rate: 0.01%

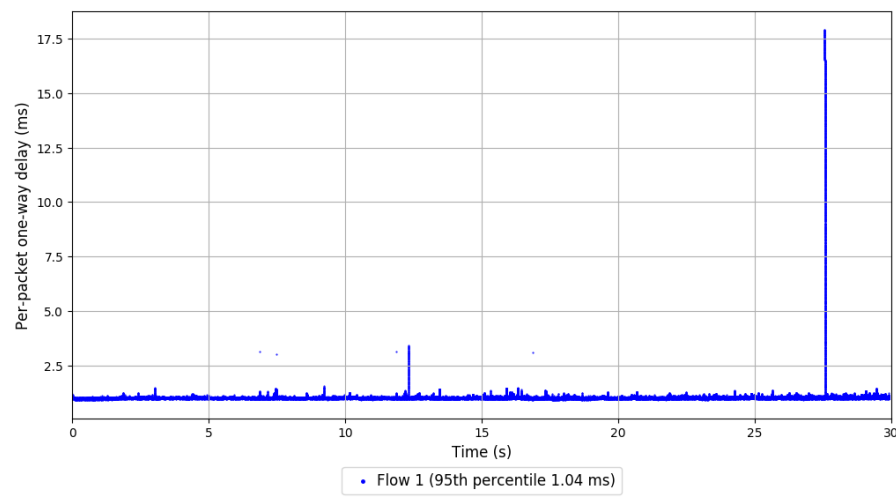
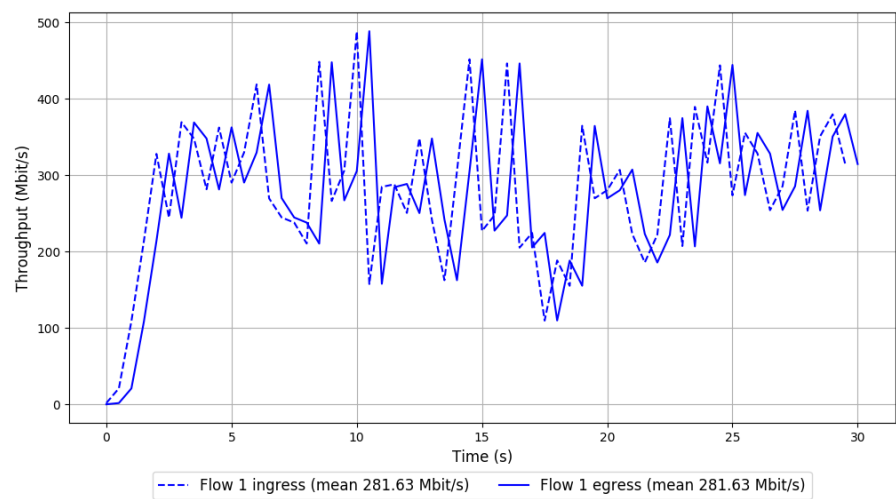
-- Flow 1:

Average throughput: 281.63 Mbit/s

95th percentile per-packet one-way delay: 1.042 ms

Loss rate: 0.01%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-02-20 06:57:46

End at: 2019-02-20 06:58:16

Local clock offset: 0.217 ms

Remote clock offset: 0.21 ms

# Below is generated by plot.py at 2019-02-20 08:32:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 234.15 Mbit/s

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

Loss rate: 0.00%

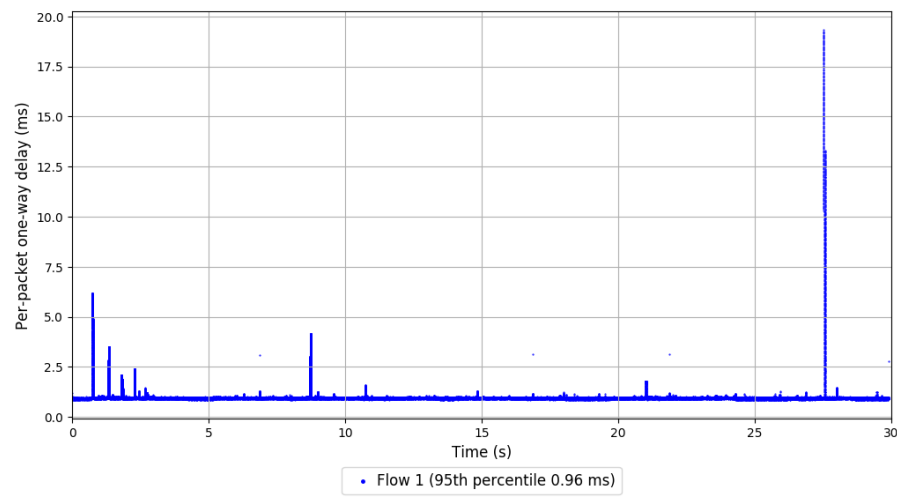
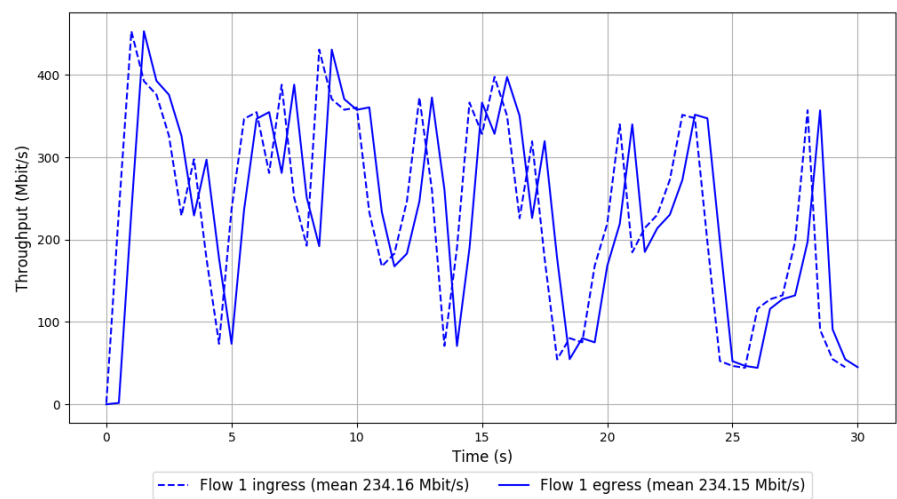
-- Flow 1:

Average throughput: 234.15 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-02-20 07:27:13

End at: 2019-02-20 07:27:43

Local clock offset: -3.879 ms

Remote clock offset: 0.028 ms

# Below is generated by plot.py at 2019-02-20 08:33:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 277.02 Mbit/s

95th percentile per-packet one-way delay: 1.085 ms

Loss rate: 0.01%

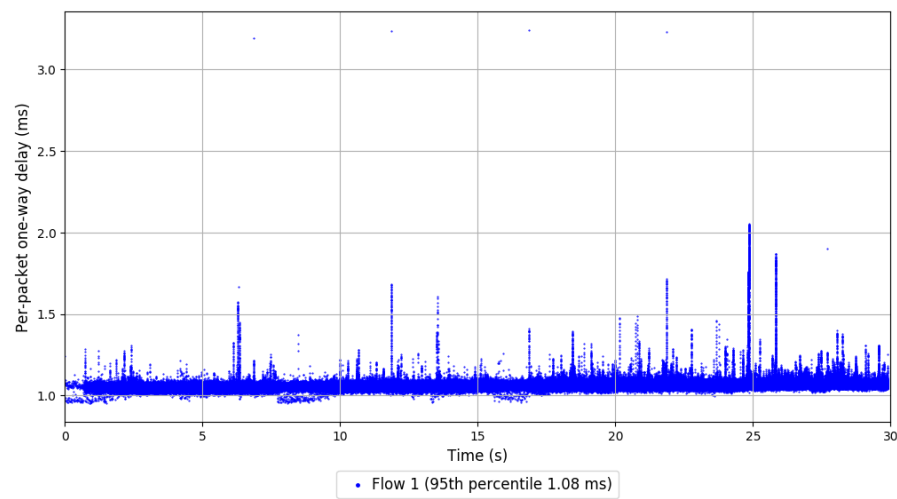
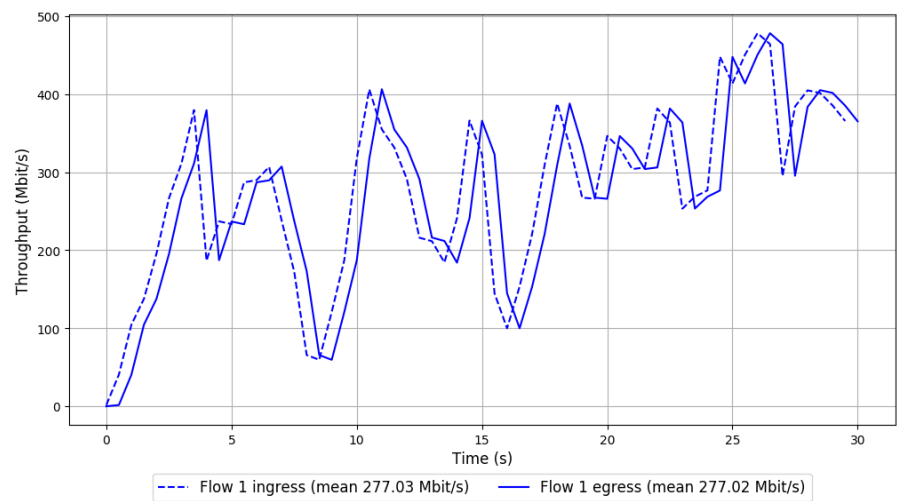
-- Flow 1:

Average throughput: 277.02 Mbit/s

95th percentile per-packet one-way delay: 1.085 ms

Loss rate: 0.01%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-02-20 05:19:56

End at: 2019-02-20 05:20:26

Local clock offset: 0.291 ms

Remote clock offset: 0.211 ms

# Below is generated by plot.py at 2019-02-20 08:33:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.076 ms

Loss rate: 0.00%

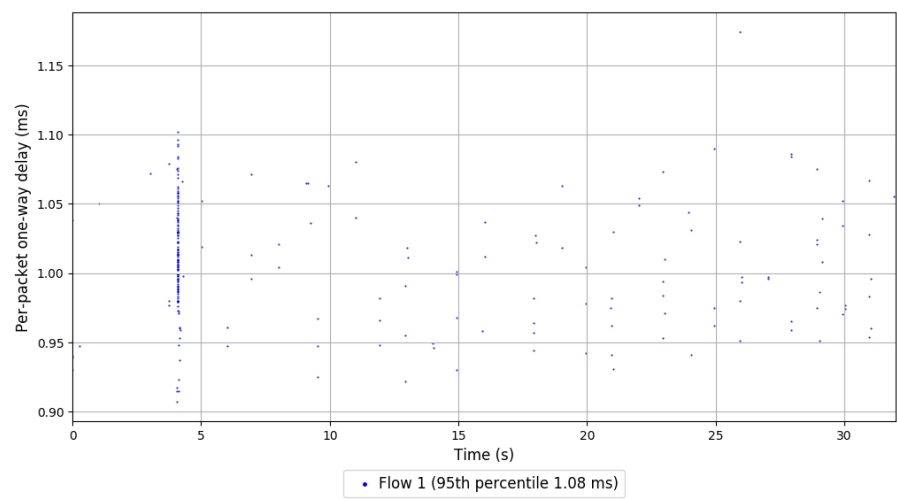
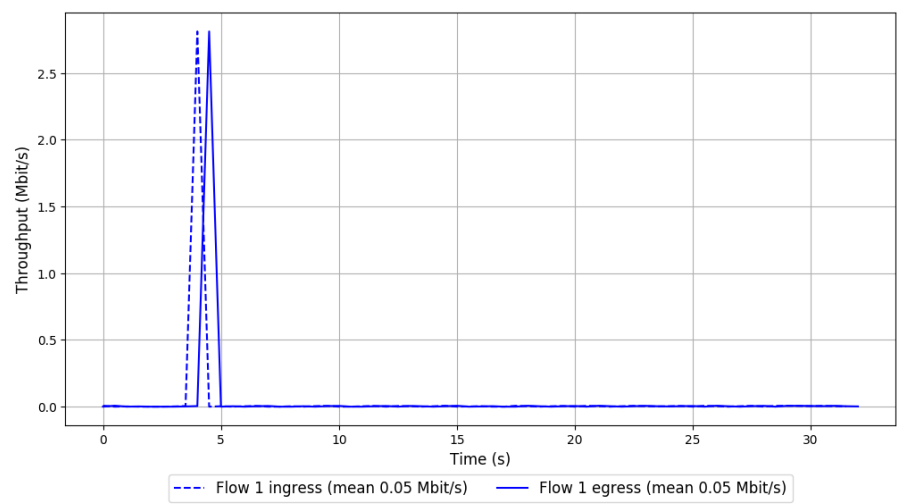
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.076 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-02-20 05:49:16

End at: 2019-02-20 05:49:46

Local clock offset: 0.194 ms

Remote clock offset: 0.345 ms

# Below is generated by plot.py at 2019-02-20 08:33:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.006 ms

Loss rate: 0.05%

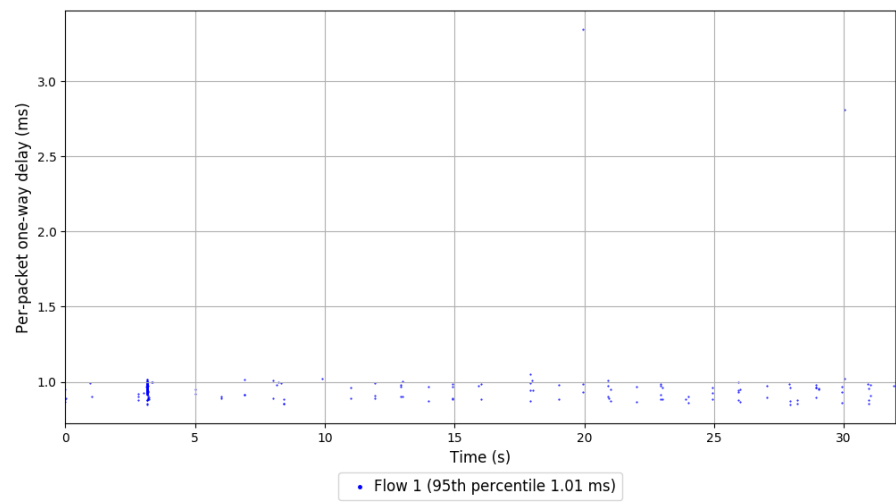
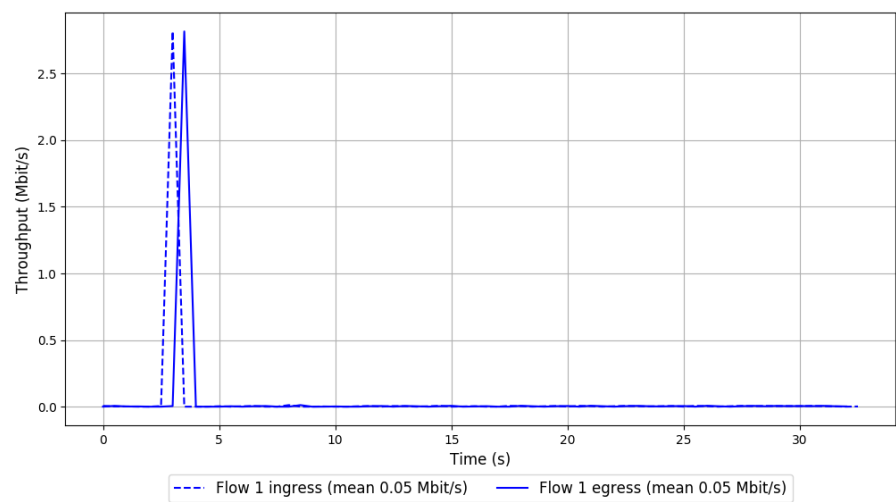
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.006 ms

Loss rate: 0.05%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-02-20 06:18:36

End at: 2019-02-20 06:19:06

Local clock offset: 0.1 ms

Remote clock offset: 0.247 ms

# Below is generated by plot.py at 2019-02-20 08:33:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.052 ms

Loss rate: 0.00%

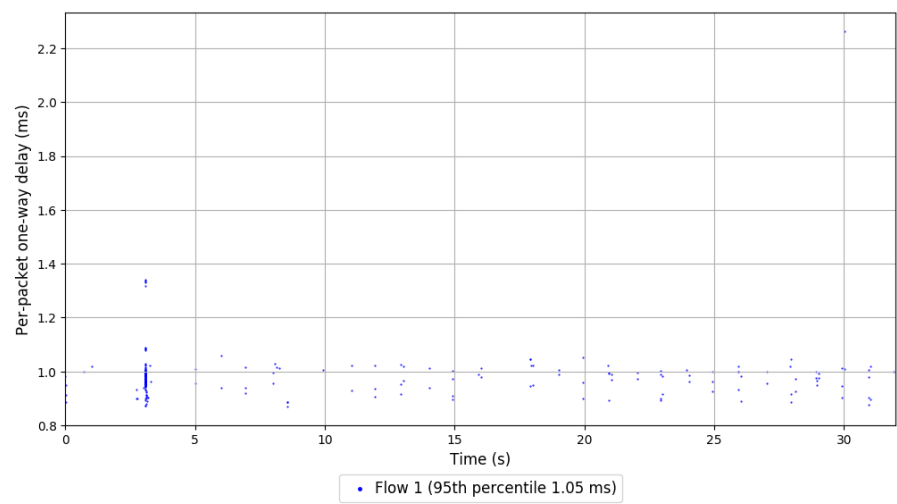
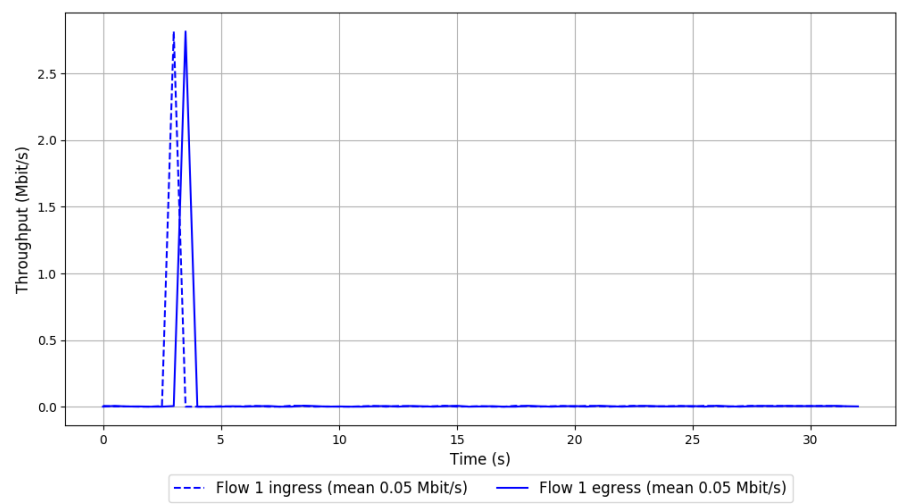
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.052 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-02-20 06:47:56

End at: 2019-02-20 06:48:26

Local clock offset: 0.224 ms

Remote clock offset: 0.179 ms

# Below is generated by plot.py at 2019-02-20 08:33:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.062 ms

Loss rate: 0.00%

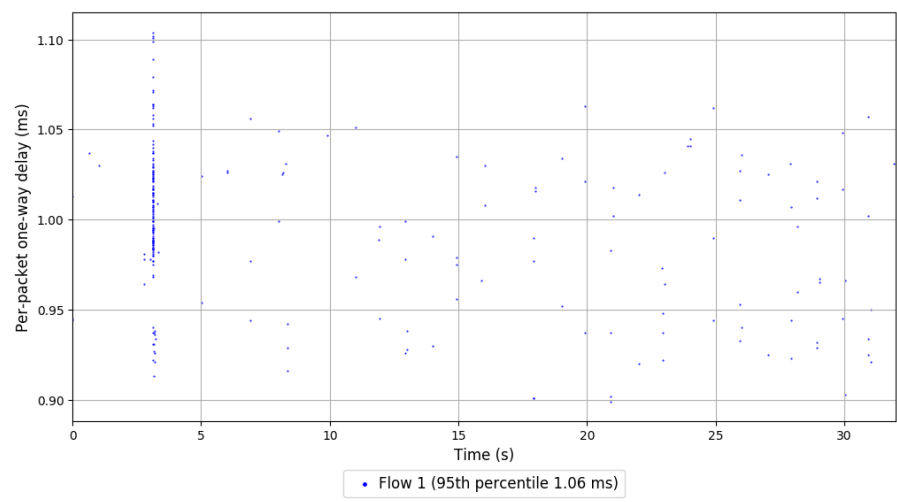
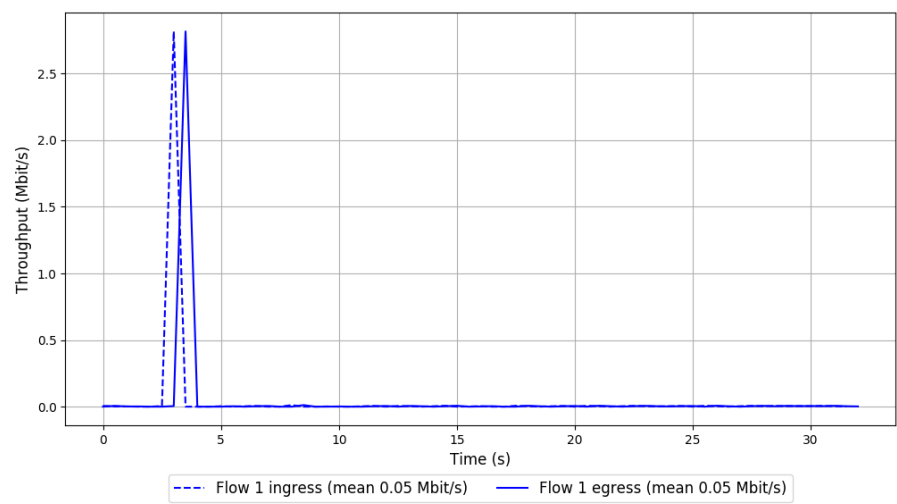
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.062 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-02-20 07:17:22

End at: 2019-02-20 07:17:52

Local clock offset: -3.167 ms

Remote clock offset: 0.263 ms

# Below is generated by plot.py at 2019-02-20 08:33:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.604 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.604 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

