

Pantheon Report

Generated at 2019-07-12 13:56:38 (UTC).

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

Repeated the test of 24 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

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

System info:

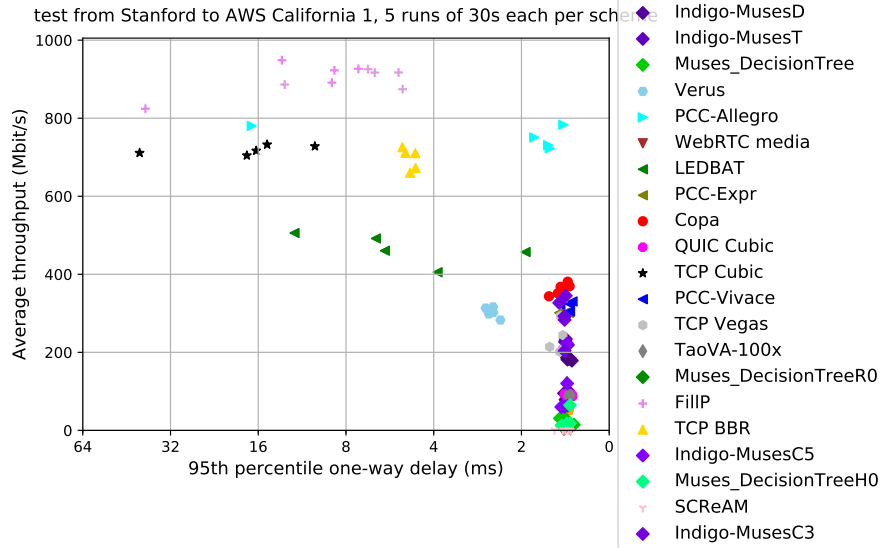
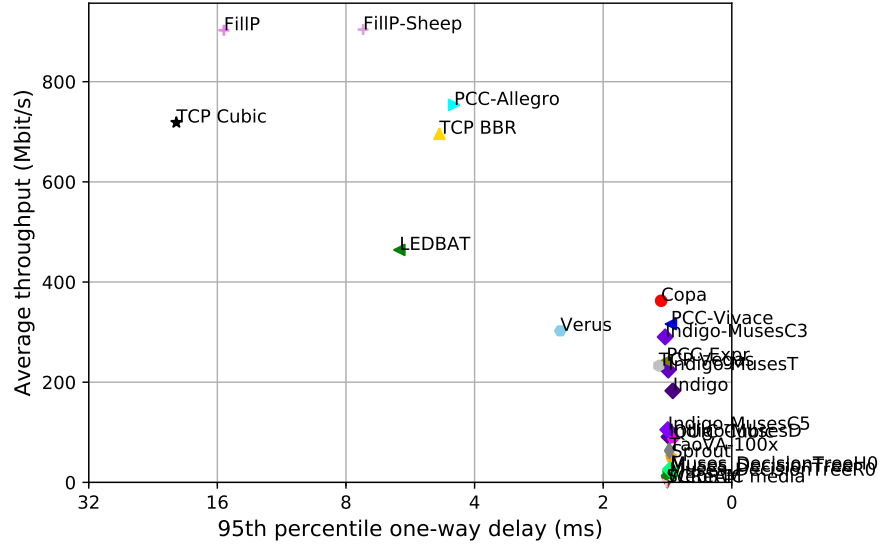
```
Linux 4.15.0-1041-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ 2076e1149a241f3edb4365d686df32342bf9561f
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf5e58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 8bb93ffff2b107204a92d8b72449fc0c55e15f00
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
```

third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

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



| scheme | # runs | mean avg tput (Mbit/s) flow 1 | mean 95th-%ile delay (ms) flow 1 | mean loss rate (%) flow 1 |
|----------------------|--------|----------------------------------|-------------------------------------|------------------------------|
| TCP BBR | 5 | 696.06 | 4.84 | 0.02 |
| Copa | 5 | 362.64 | 1.10 | 0.01 |
| TCP Cubic | 5 | 718.51 | 19.95 | 0.03 |
| FillP | 5 | 902.66 | 15.45 | 0.11 |
| FillP-Sheep | 5 | 904.13 | 7.29 | 0.01 |
| Indigo | 5 | 182.86 | 0.92 | 0.01 |
| Indigo-MusesC3 | 5 | 290.33 | 1.04 | 0.00 |
| Indigo-MusesC5 | 5 | 105.23 | 1.00 | 0.01 |
| Indigo-MusesD | 5 | 91.02 | 0.98 | 0.01 |
| Indigo-MusesT | 5 | 224.26 | 0.99 | 0.01 |
| LEDBAT | 5 | 464.08 | 6.00 | 0.01 |
| Muses_DecisionTree | 5 | 21.35 | 0.95 | 0.00 |
| Muses_DecisionTreeH0 | 5 | 25.72 | 0.96 | 0.00 |
| Muses_DecisionTreeR0 | 5 | 13.40 | 0.97 | 0.01 |
| PCC-Allegro | 5 | 753.64 | 4.47 | 0.06 |
| PCC-Expr | 5 | 242.79 | 1.02 | 0.01 |
| QUIC Cubic | 5 | 89.64 | 0.91 | 0.01 |
| SCReAM | 5 | 0.22 | 1.02 | 0.05 |
| Sprout | 5 | 50.23 | 0.94 | 0.02 |
| TaoVA-100x | 5 | 63.35 | 0.97 | 0.01 |
| TCP Vegas | 5 | 232.89 | 1.14 | 0.00 |
| Verus | 5 | 302.56 | 2.52 | 0.00 |
| PCC-Vivace | 5 | 316.11 | 0.95 | 0.01 |
| WebRTC media | 5 | 0.05 | 1.00 | 0.01 |

Run 1: Statistics of TCP BBR

Start at: 2019-07-12 10:33:12

End at: 2019-07-12 10:33:42

Local clock offset: 6.646 ms

Remote clock offset: 3.255 ms

Below is generated by plot.py at 2019-07-12 13:04:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 660.33 Mbit/s

95th percentile per-packet one-way delay: 4.816 ms

Loss rate: 0.02%

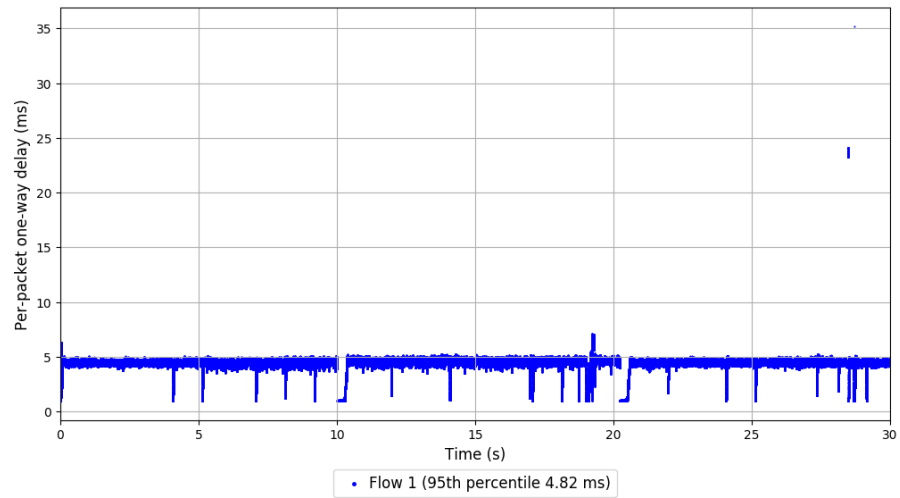
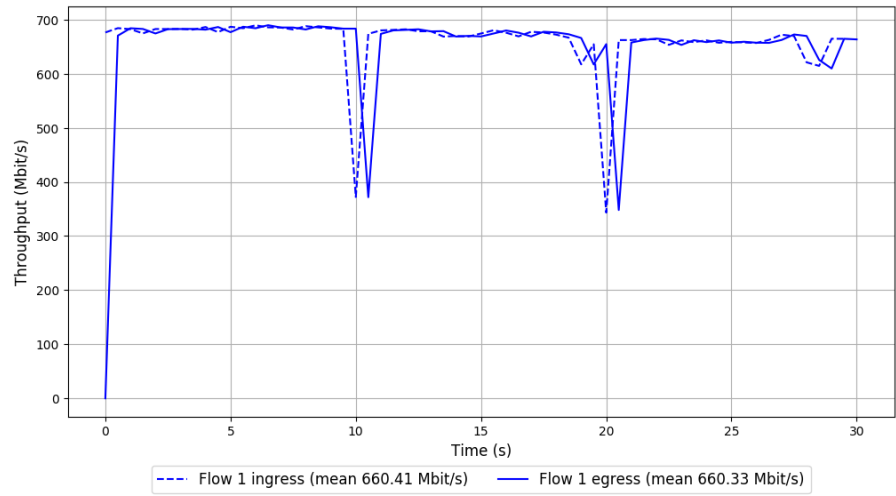
-- Flow 1:

Average throughput: 660.33 Mbit/s

95th percentile per-packet one-way delay: 4.816 ms

Loss rate: 0.02%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-07-12 11:06:43

End at: 2019-07-12 11:07:13

Local clock offset: 5.251 ms

Remote clock offset: -0.088 ms

Below is generated by plot.py at 2019-07-12 13:05:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 710.38 Mbit/s

95th percentile per-packet one-way delay: 4.627 ms

Loss rate: 0.02%

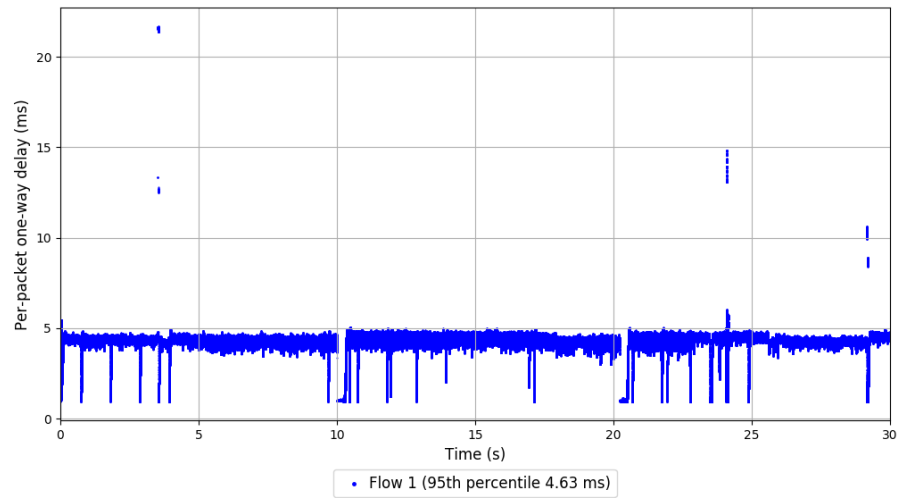
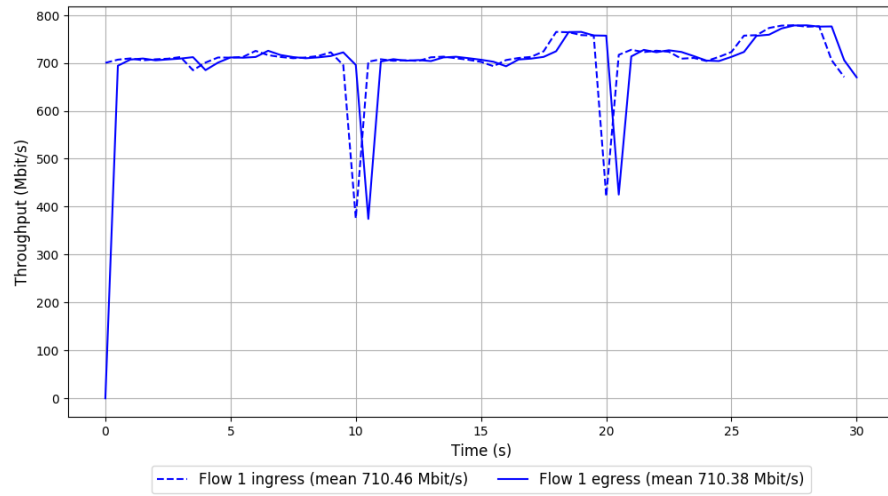
-- Flow 1:

Average throughput: 710.38 Mbit/s

95th percentile per-packet one-way delay: 4.627 ms

Loss rate: 0.02%

Run 2: Report of TCP BBR — Data Link

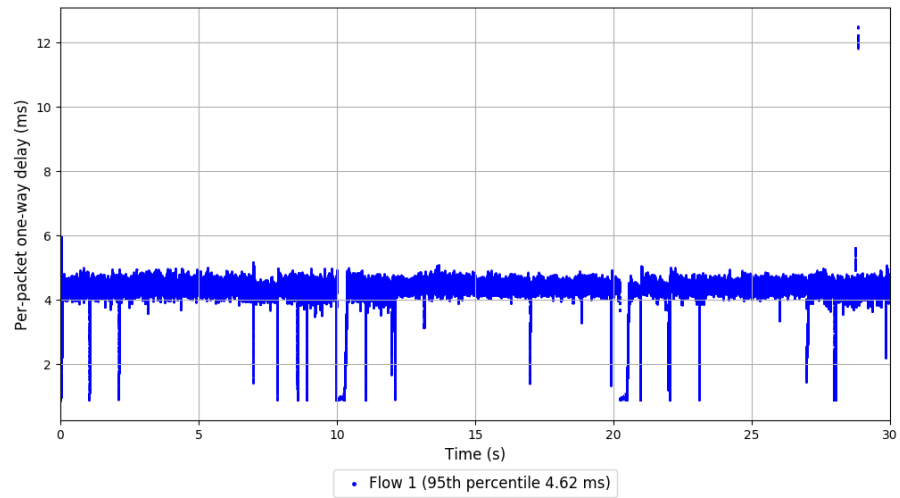
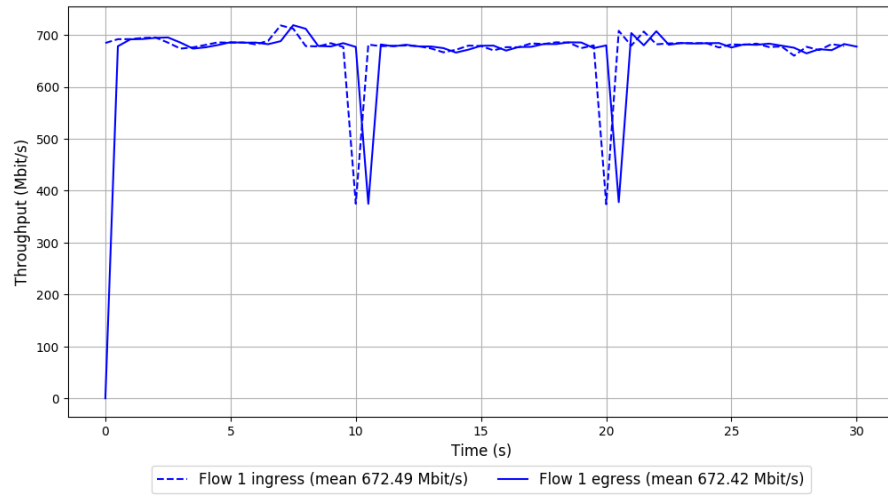


Run 3: Statistics of TCP BBR

Start at: 2019-07-12 11:40:15
End at: 2019-07-12 11:40:45
Local clock offset: 4.862 ms
Remote clock offset: -0.581 ms

Below is generated by plot.py at 2019-07-12 13:05:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 672.42 Mbit/s
95th percentile per-packet one-way delay: 4.617 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 672.42 Mbit/s
95th percentile per-packet one-way delay: 4.617 ms
Loss rate: 0.02%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-07-12 12:13:46

End at: 2019-07-12 12:14:16

Local clock offset: 5.1 ms

Remote clock offset: 2.432 ms

Below is generated by plot.py at 2019-07-12 13:05:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 725.81 Mbit/s

95th percentile per-packet one-way delay: 5.122 ms

Loss rate: 0.02%

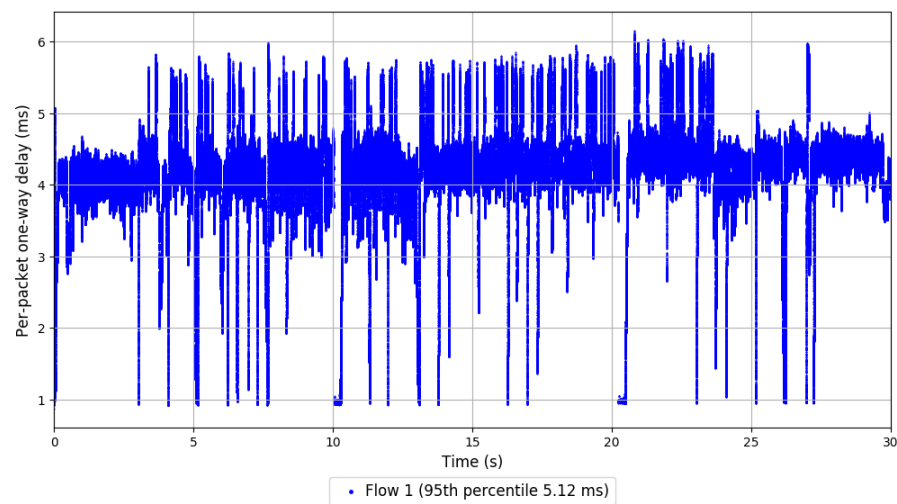
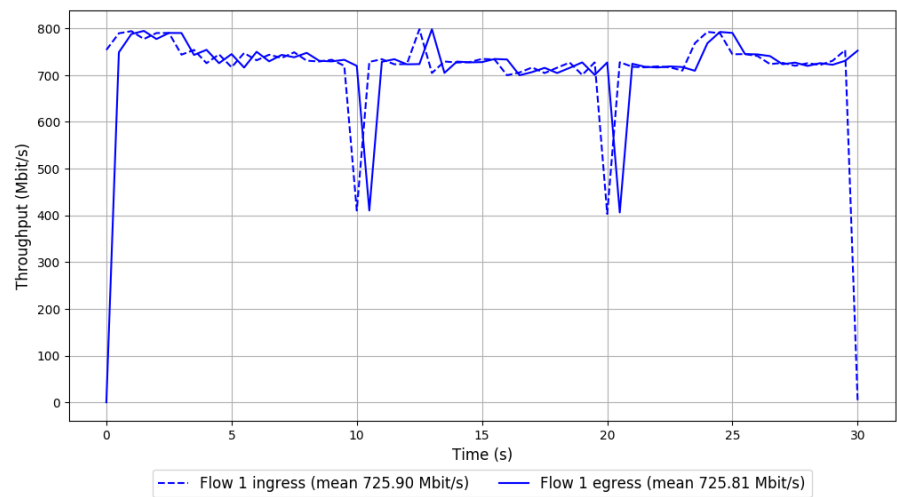
-- Flow 1:

Average throughput: 725.81 Mbit/s

95th percentile per-packet one-way delay: 5.122 ms

Loss rate: 0.02%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-07-12 12:47:21

End at: 2019-07-12 12:47:51

Local clock offset: 5.269 ms

Remote clock offset: 3.818 ms

Below is generated by plot.py at 2019-07-12 13:05:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 711.37 Mbit/s

95th percentile per-packet one-way delay: 5.000 ms

Loss rate: 0.02%

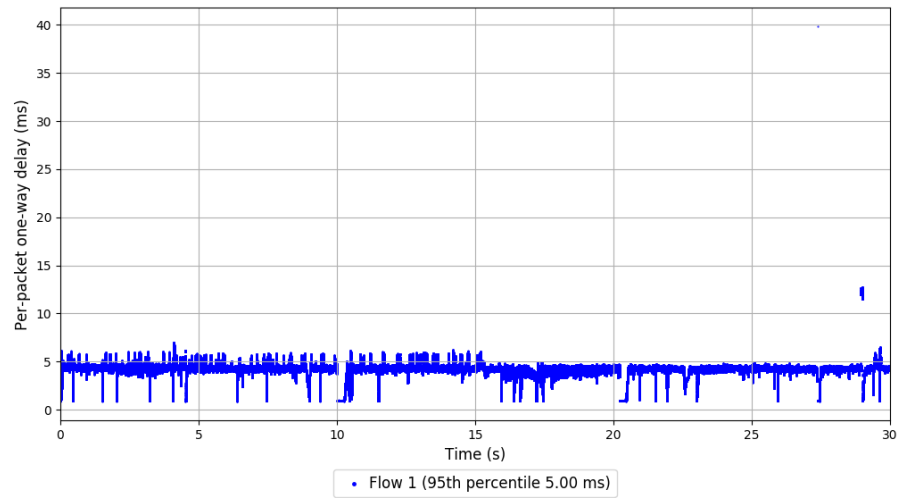
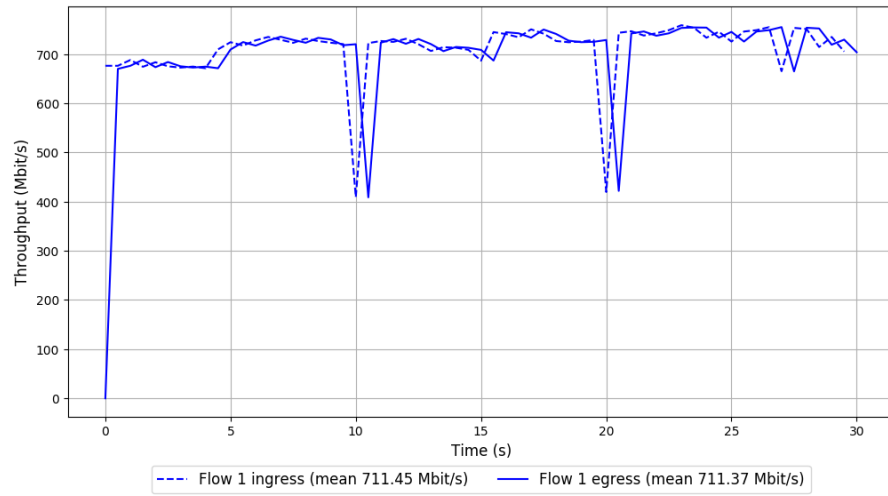
-- Flow 1:

Average throughput: 711.37 Mbit/s

95th percentile per-packet one-way delay: 5.000 ms

Loss rate: 0.02%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-07-12 10:05:47

End at: 2019-07-12 10:06:17

Local clock offset: 6.79 ms

Remote clock offset: 3.464 ms

Below is generated by plot.py at 2019-07-12 13:05:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 351.37 Mbit/s

95th percentile per-packet one-way delay: 1.171 ms

Loss rate: 0.01%

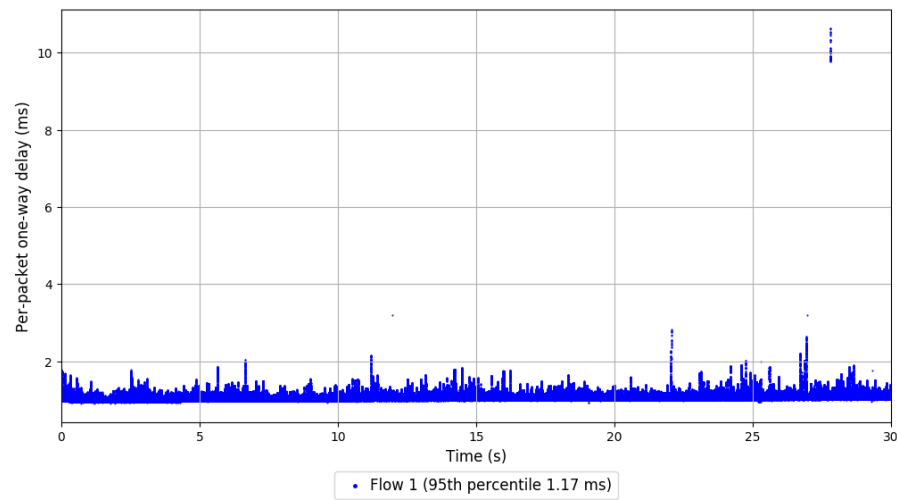
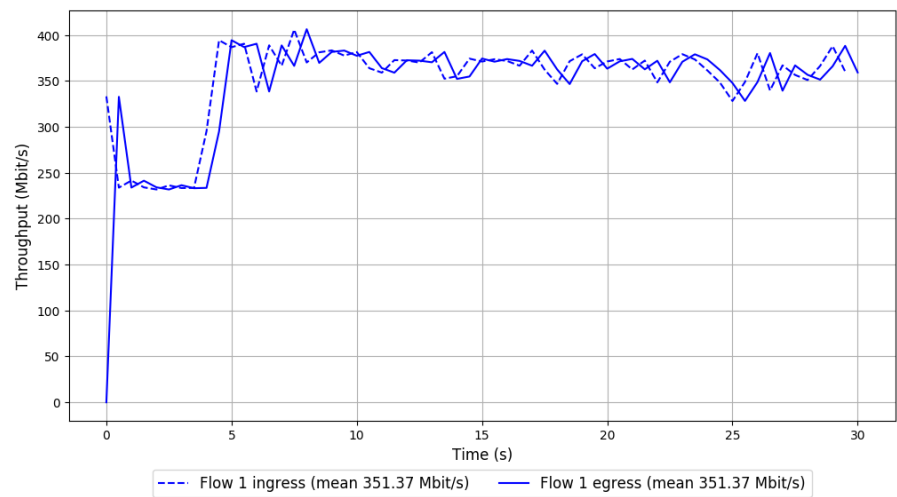
-- Flow 1:

Average throughput: 351.37 Mbit/s

95th percentile per-packet one-way delay: 1.171 ms

Loss rate: 0.01%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-07-12 10:38:56

End at: 2019-07-12 10:39:26

Local clock offset: 6.177 ms

Remote clock offset: 3.354 ms

Below is generated by plot.py at 2019-07-12 13:05:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 380.98 Mbit/s

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

Loss rate: 0.00%

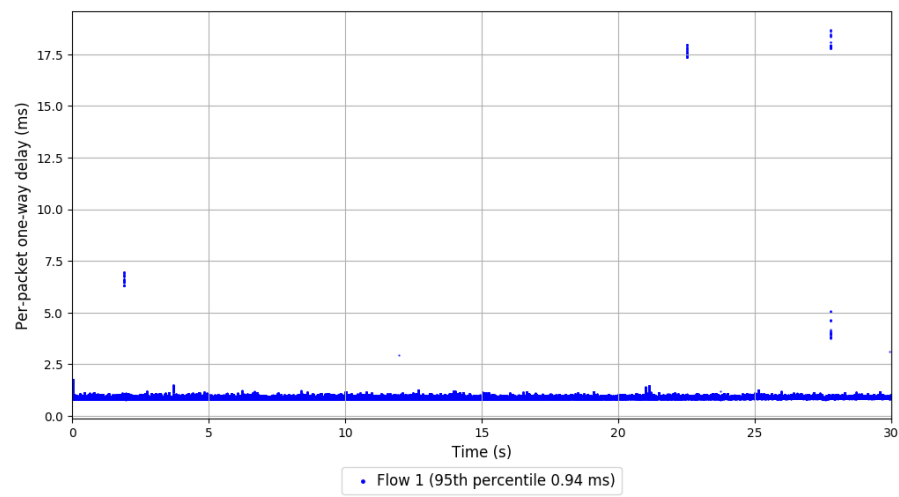
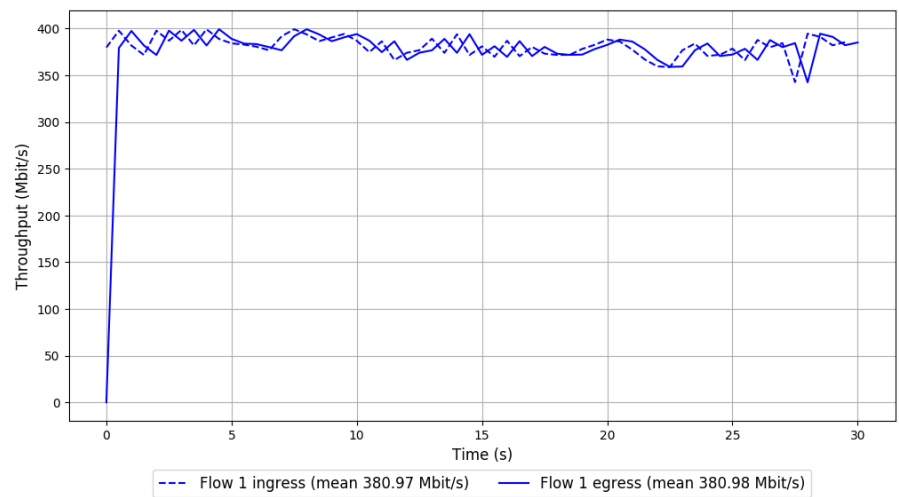
-- Flow 1:

Average throughput: 380.98 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of Copa — Data Link

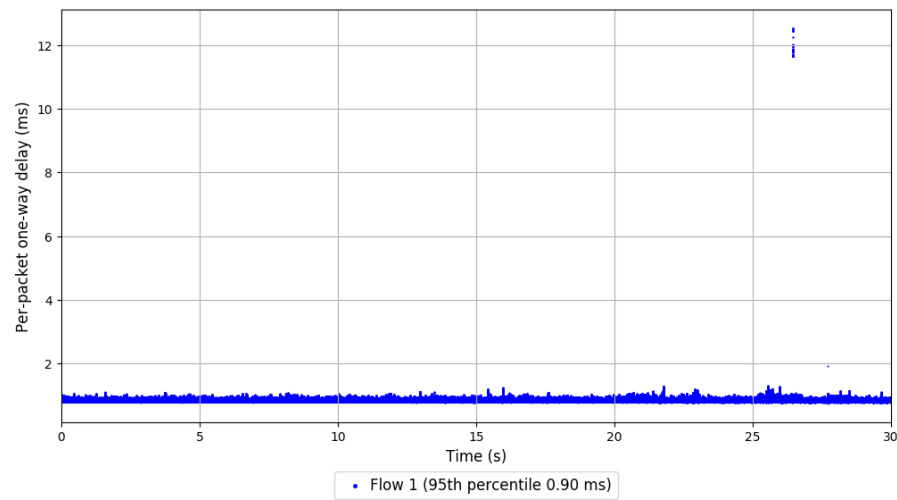
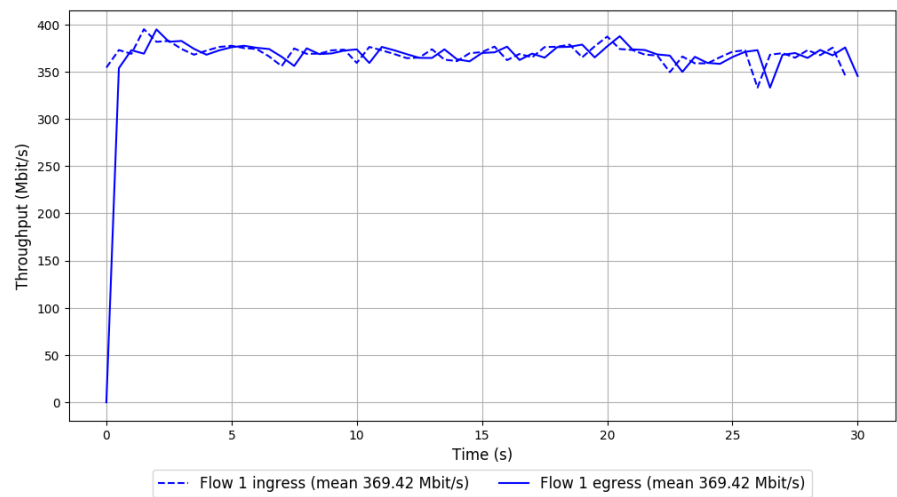


Run 3: Statistics of Copa

Start at: 2019-07-12 11:12:30
End at: 2019-07-12 11:13:00
Local clock offset: 4.964 ms
Remote clock offset: -0.439 ms

Below is generated by plot.py at 2019-07-12 13:05:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 369.42 Mbit/s
95th percentile per-packet one-way delay: 0.903 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 369.42 Mbit/s
95th percentile per-packet one-way delay: 0.903 ms
Loss rate: 0.01%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-07-12 11:45:58

End at: 2019-07-12 11:46:28

Local clock offset: 4.92 ms

Remote clock offset: -0.58 ms

Below is generated by plot.py at 2019-07-12 13:12:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 343.62 Mbit/s

95th percentile per-packet one-way delay: 1.372 ms

Loss rate: 0.01%

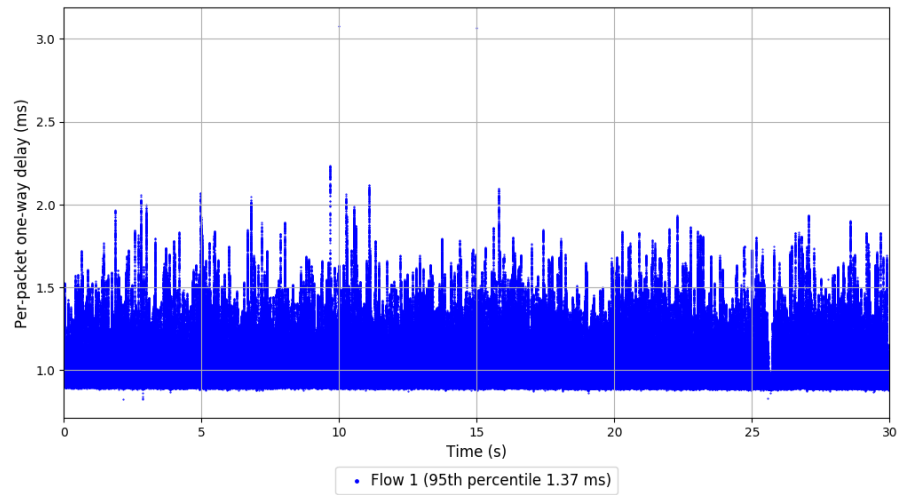
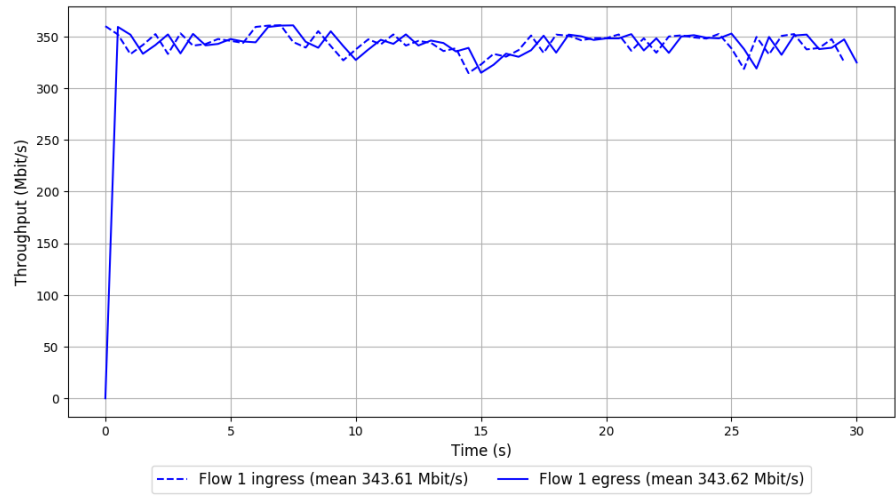
-- Flow 1:

Average throughput: 343.62 Mbit/s

95th percentile per-packet one-way delay: 1.372 ms

Loss rate: 0.01%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-07-12 12:19:28

End at: 2019-07-12 12:19:58

Local clock offset: 5.125 ms

Remote clock offset: 2.856 ms

Below is generated by plot.py at 2019-07-12 13:12:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 367.81 Mbit/s

95th percentile per-packet one-way delay: 1.107 ms

Loss rate: 0.01%

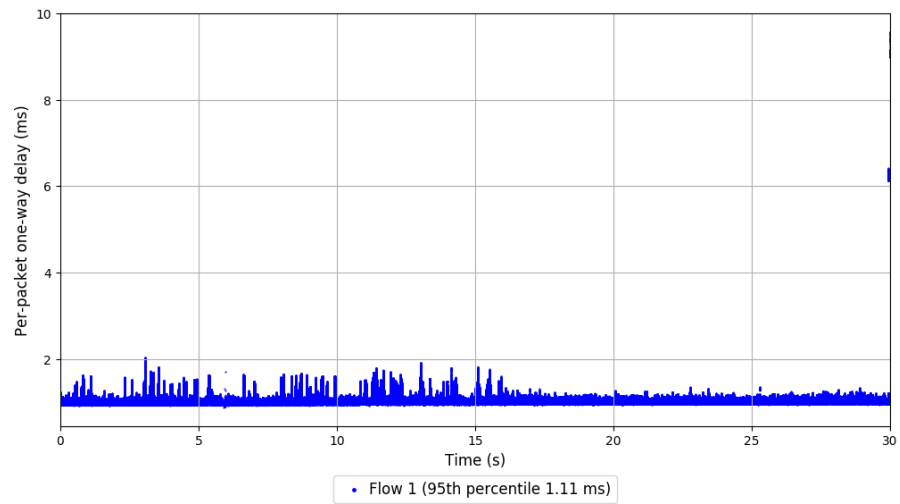
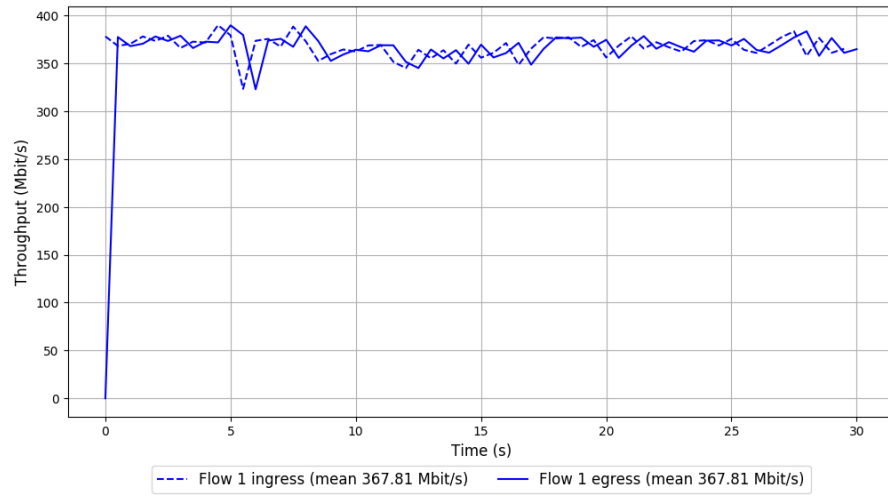
-- Flow 1:

Average throughput: 367.81 Mbit/s

95th percentile per-packet one-way delay: 1.107 ms

Loss rate: 0.01%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-07-12 10:18:17

End at: 2019-07-12 10:18:47

Local clock offset: 6.833 ms

Remote clock offset: 4.211 ms

Below is generated by plot.py at 2019-07-12 13:13:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 732.33 Mbit/s

95th percentile per-packet one-way delay: 14.919 ms

Loss rate: 0.04%

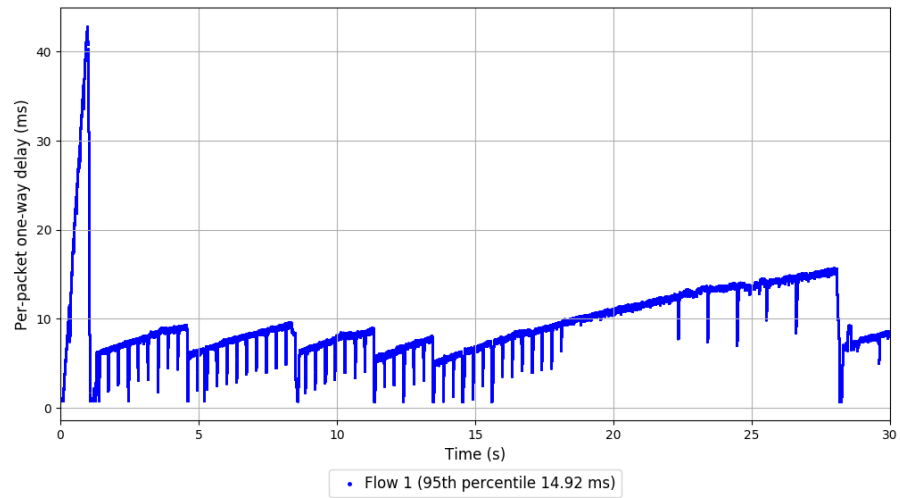
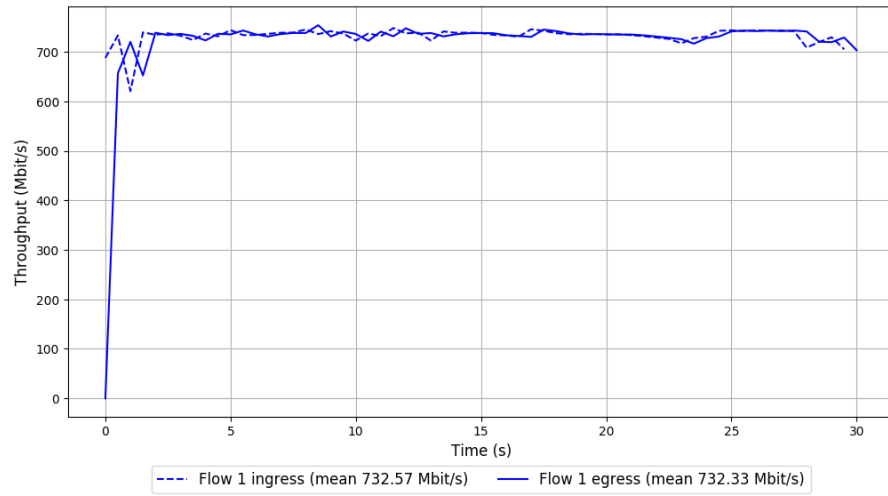
-- Flow 1:

Average throughput: 732.33 Mbit/s

95th percentile per-packet one-way delay: 14.919 ms

Loss rate: 0.04%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-07-12 10:51:30

End at: 2019-07-12 10:52:00

Local clock offset: 6.052 ms

Remote clock offset: 3.492 ms

Below is generated by plot.py at 2019-07-12 13:13:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 704.45 Mbit/s

95th percentile per-packet one-way delay: 17.510 ms

Loss rate: 0.05%

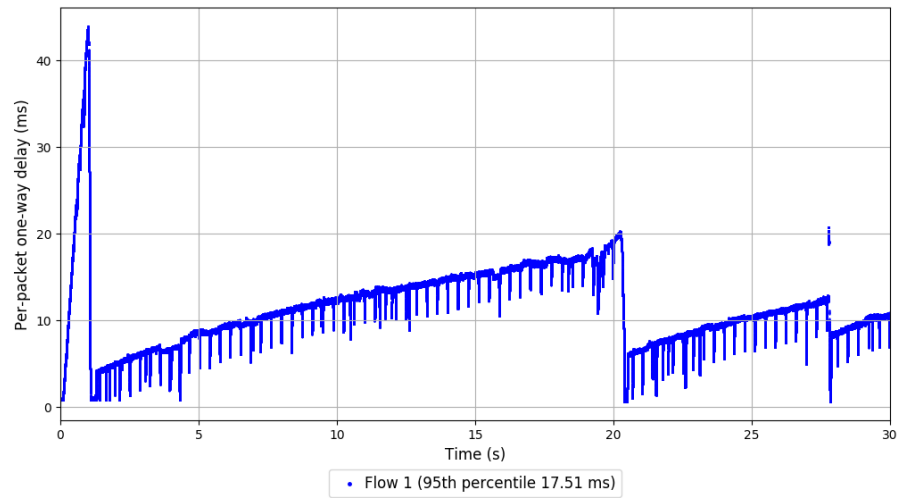
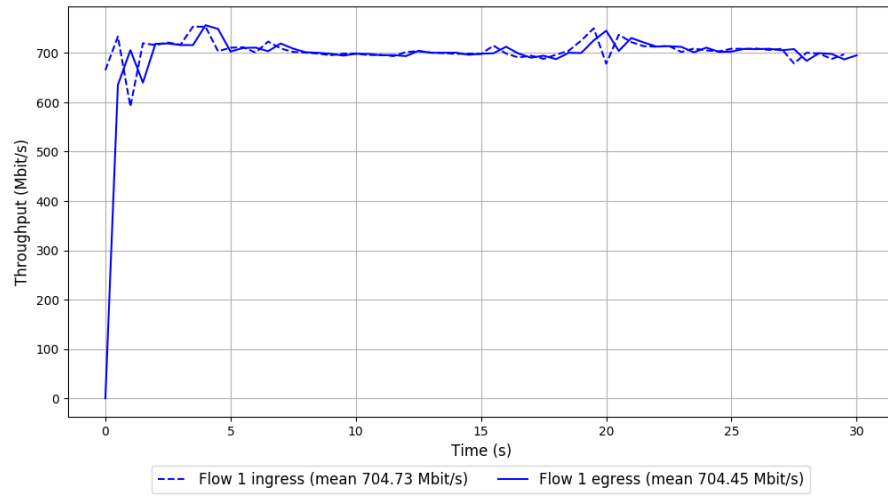
-- Flow 1:

Average throughput: 704.45 Mbit/s

95th percentile per-packet one-way delay: 17.510 ms

Loss rate: 0.05%

Run 2: Report of TCP Cubic — Data Link

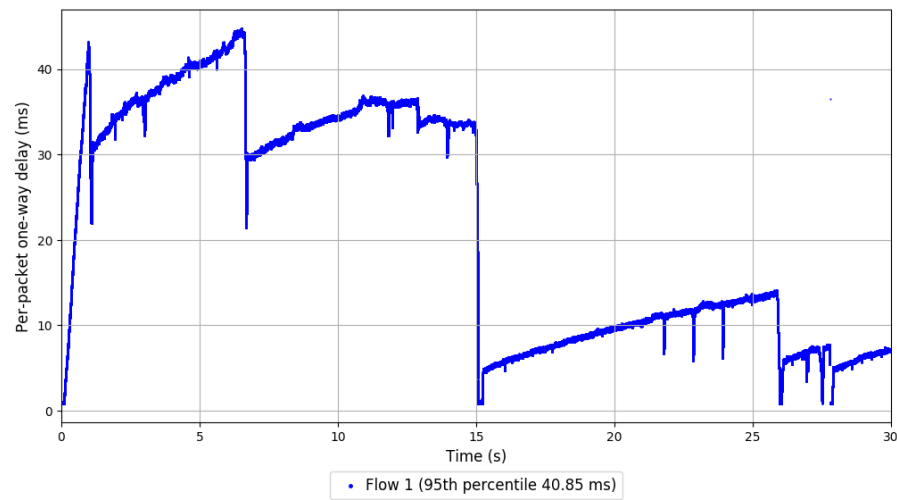
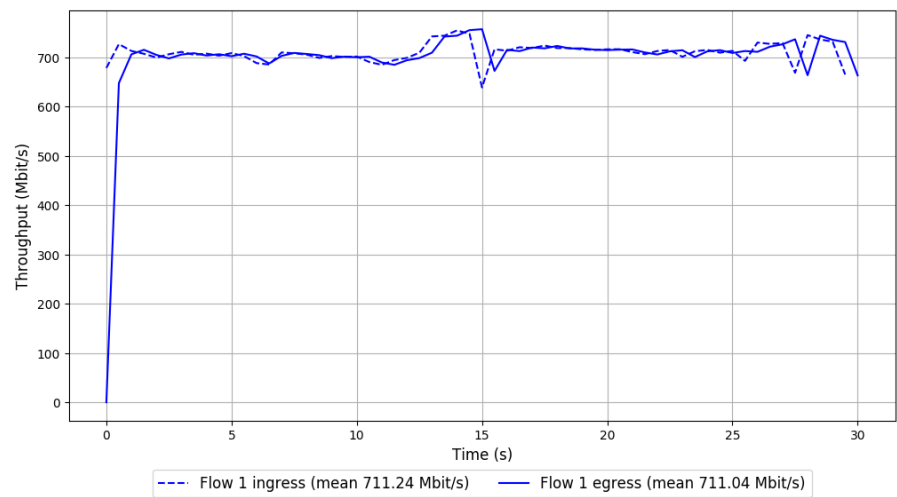


Run 3: Statistics of TCP Cubic

Start at: 2019-07-12 11:25:03
End at: 2019-07-12 11:25:33
Local clock offset: 4.723 ms
Remote clock offset: -1.063 ms

Below is generated by plot.py at 2019-07-12 13:13:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 711.04 Mbit/s
95th percentile per-packet one-way delay: 40.855 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 711.04 Mbit/s
95th percentile per-packet one-way delay: 40.855 ms
Loss rate: 0.03%

Run 3: Report of TCP Cubic — Data Link

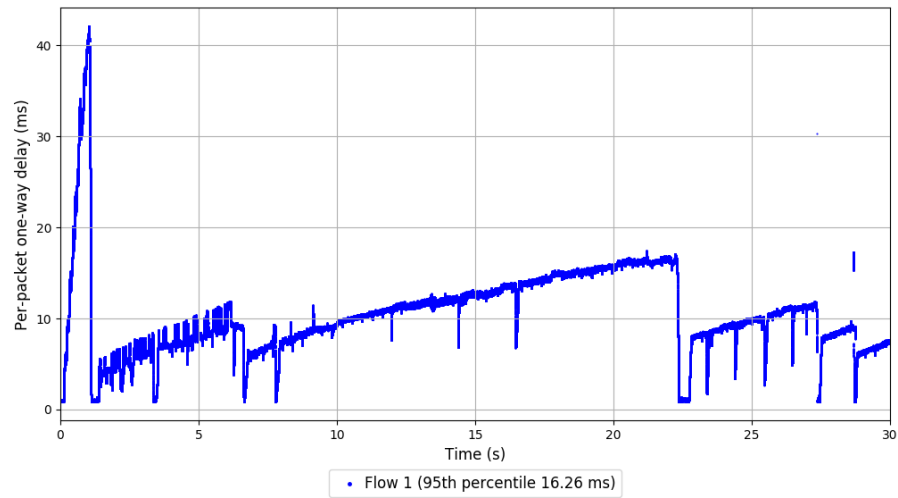
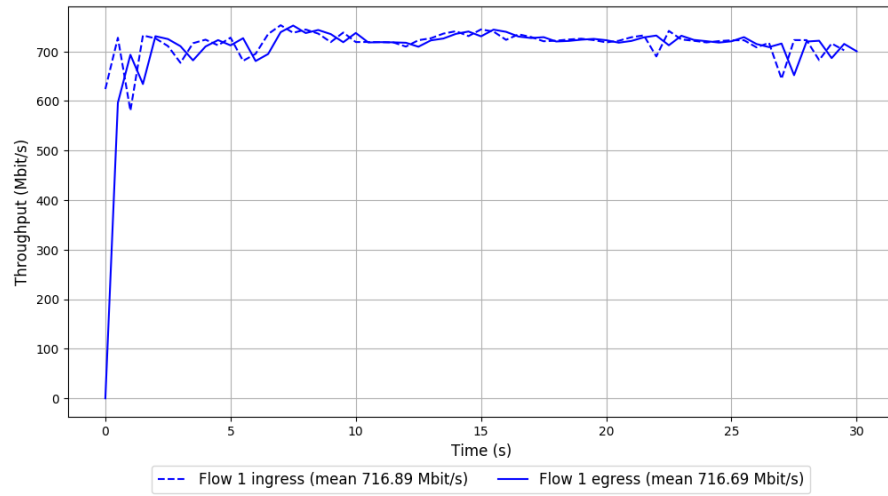


Run 4: Statistics of TCP Cubic

Start at: 2019-07-12 11:58:30
End at: 2019-07-12 11:59:00
Local clock offset: 4.971 ms
Remote clock offset: -0.645 ms

Below is generated by plot.py at 2019-07-12 13:13:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 716.69 Mbit/s
95th percentile per-packet one-way delay: 16.263 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 716.69 Mbit/s
95th percentile per-packet one-way delay: 16.263 ms
Loss rate: 0.03%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-07-12 12:32:03

End at: 2019-07-12 12:32:33

Local clock offset: 5.159 ms

Remote clock offset: 3.448 ms

Below is generated by plot.py at 2019-07-12 13:13:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 728.03 Mbit/s

95th percentile per-packet one-way delay: 10.228 ms

Loss rate: 0.01%

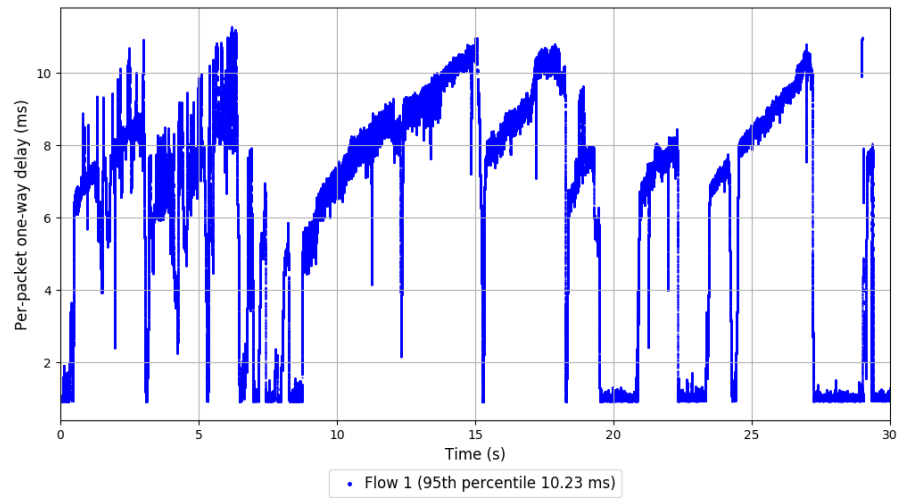
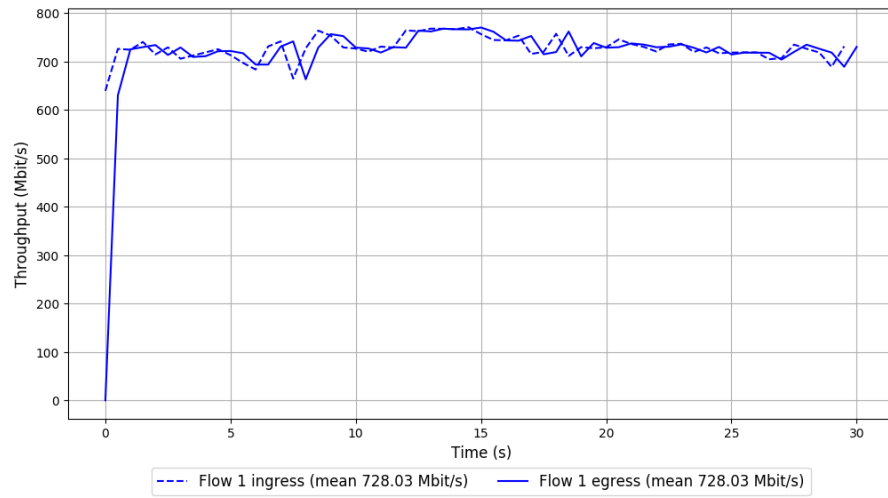
-- Flow 1:

Average throughput: 728.03 Mbit/s

95th percentile per-packet one-way delay: 10.228 ms

Loss rate: 0.01%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-07-12 10:14:04

End at: 2019-07-12 10:14:34

Local clock offset: 6.745 ms

Remote clock offset: 4.038 ms

Below is generated by plot.py at 2019-07-12 13:18:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 948.63 Mbit/s

95th percentile per-packet one-way delay: 13.274 ms

Loss rate: 0.07%

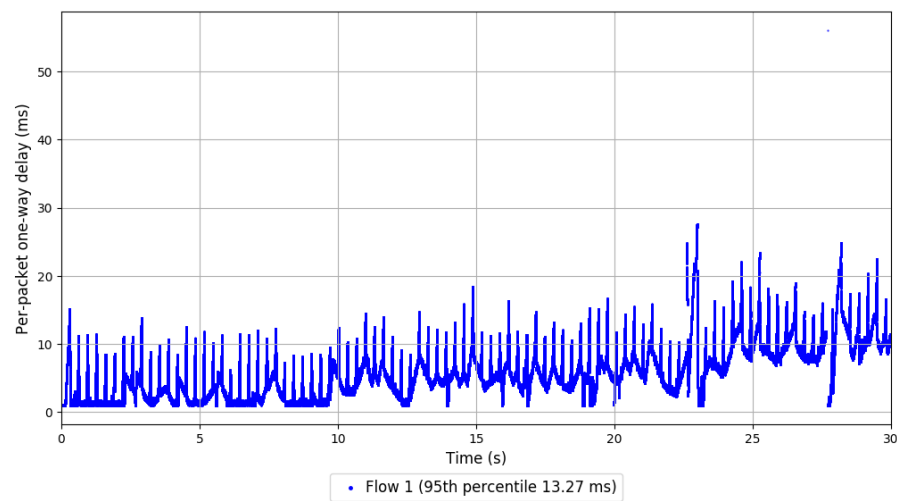
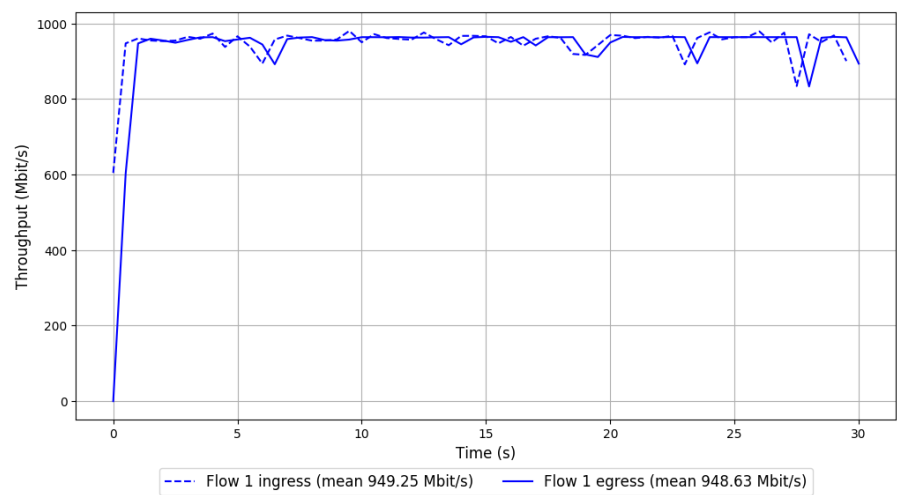
-- Flow 1:

Average throughput: 948.63 Mbit/s

95th percentile per-packet one-way delay: 13.274 ms

Loss rate: 0.07%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-07-12 10:47:17

End at: 2019-07-12 10:47:47

Local clock offset: 6.059 ms

Remote clock offset: 3.401 ms

Below is generated by plot.py at 2019-07-12 13:25:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 926.56 Mbit/s

95th percentile per-packet one-way delay: 7.253 ms

Loss rate: 0.01%

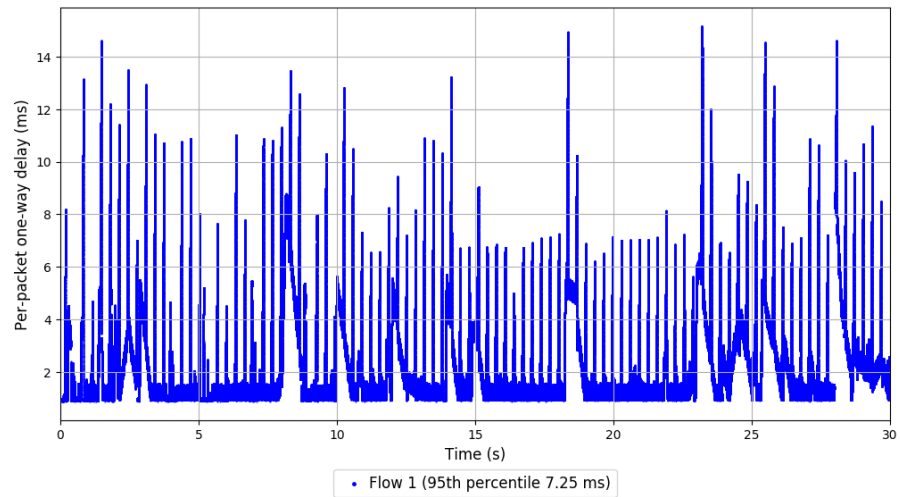
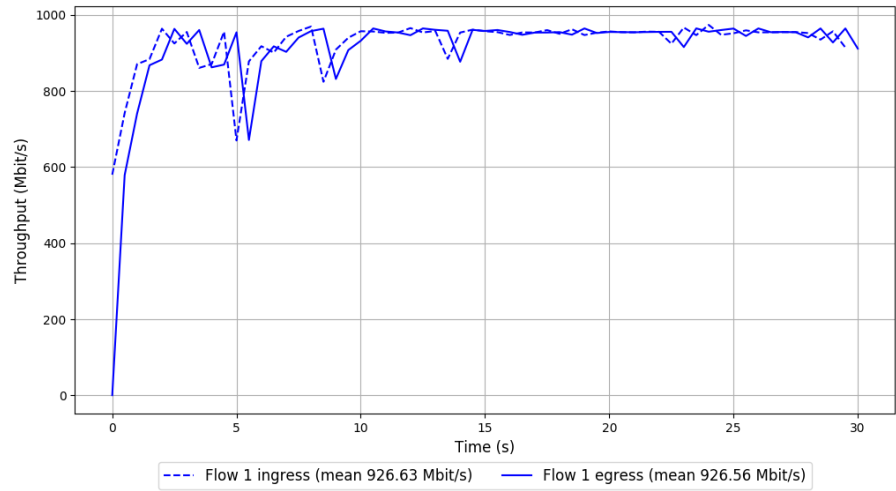
-- Flow 1:

Average throughput: 926.56 Mbit/s

95th percentile per-packet one-way delay: 7.253 ms

Loss rate: 0.01%

Run 2: Report of FillP — Data Link

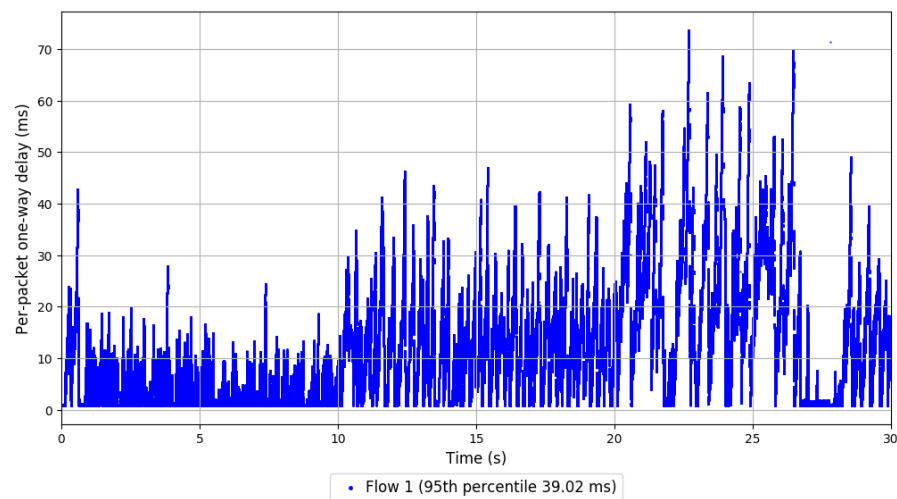
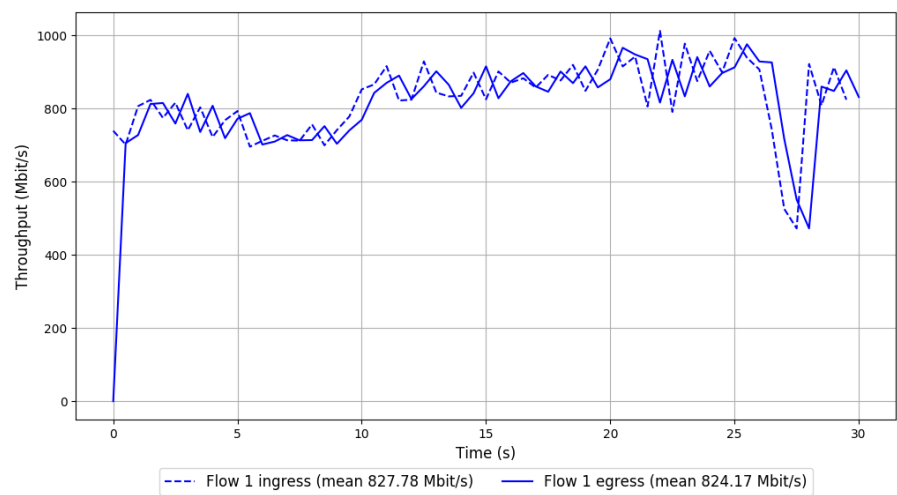


Run 3: Statistics of FillP

Start at: 2019-07-12 11:20:47
End at: 2019-07-12 11:21:17
Local clock offset: 4.813 ms
Remote clock offset: -0.858 ms

Below is generated by plot.py at 2019-07-12 13:25:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 824.17 Mbit/s
95th percentile per-packet one-way delay: 39.017 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 824.17 Mbit/s
95th percentile per-packet one-way delay: 39.017 ms
Loss rate: 0.44%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-07-12 11:54:14

End at: 2019-07-12 11:54:44

Local clock offset: 4.944 ms

Remote clock offset: -0.62 ms

Below is generated by plot.py at 2019-07-12 13:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 891.23 Mbit/s

95th percentile per-packet one-way delay: 8.942 ms

Loss rate: 0.00%

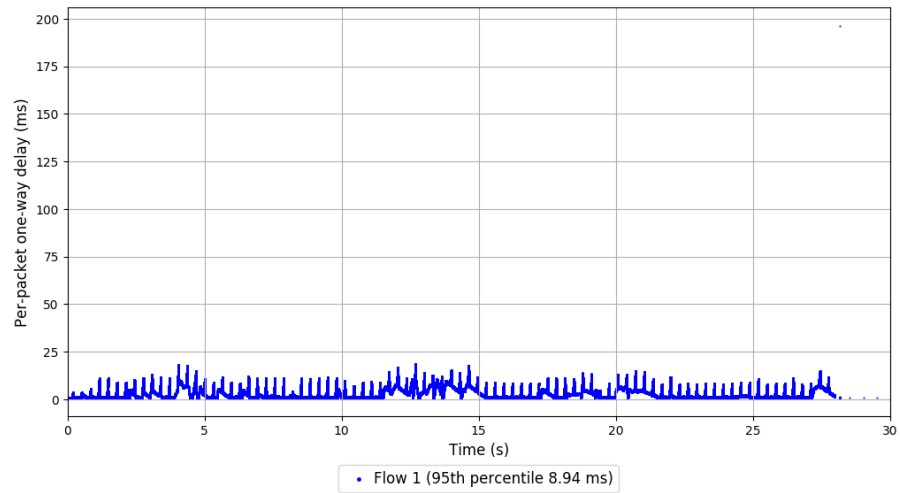
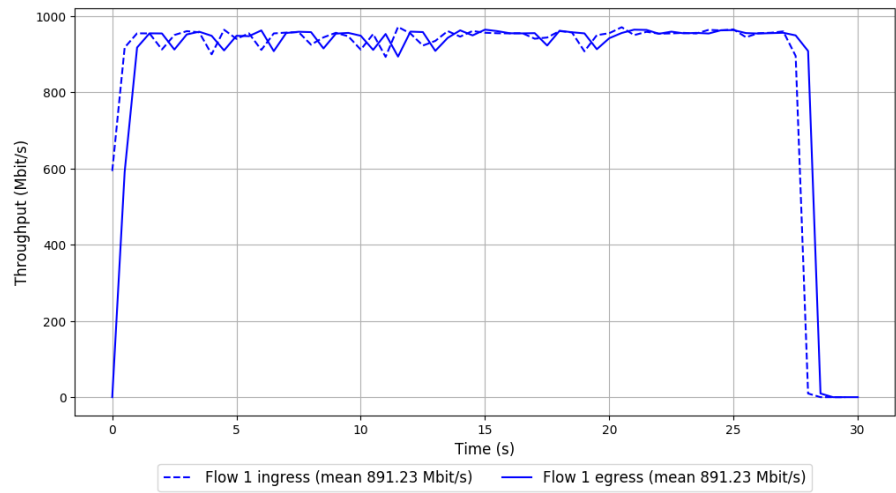
-- Flow 1:

Average throughput: 891.23 Mbit/s

95th percentile per-packet one-way delay: 8.942 ms

Loss rate: 0.00%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

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

End at: 2019-07-12 12:28:12

Local clock offset: 5.131 ms

Remote clock offset: 3.348 ms

Below is generated by plot.py at 2019-07-12 13:26:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 922.70 Mbit/s

95th percentile per-packet one-way delay: 8.764 ms

Loss rate: 0.01%

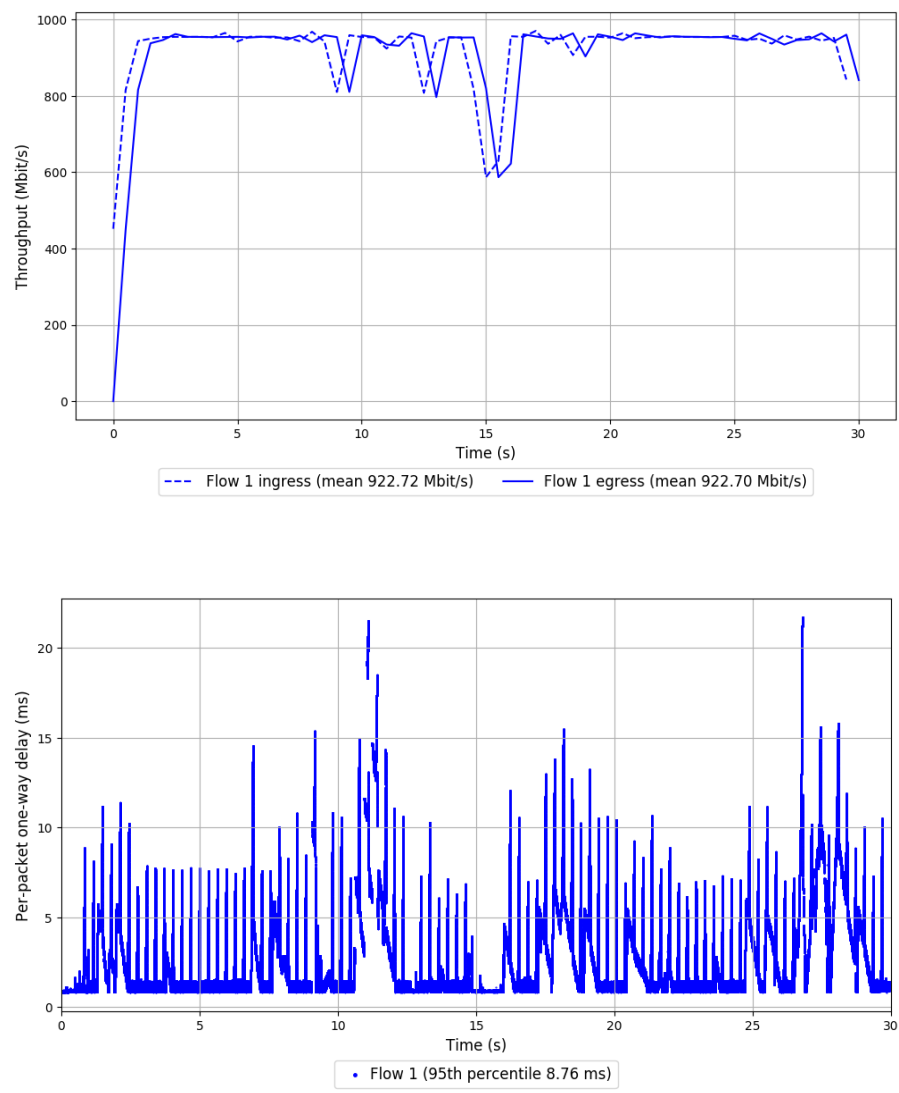
-- Flow 1:

Average throughput: 922.70 Mbit/s

95th percentile per-packet one-way delay: 8.764 ms

Loss rate: 0.01%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-07-12 10:29:06

End at: 2019-07-12 10:29:36

Local clock offset: 7.279 ms

Remote clock offset: 3.283 ms

Below is generated by plot.py at 2019-07-12 13:26:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 925.72 Mbit/s

95th percentile per-packet one-way delay: 6.724 ms

Loss rate: 0.01%

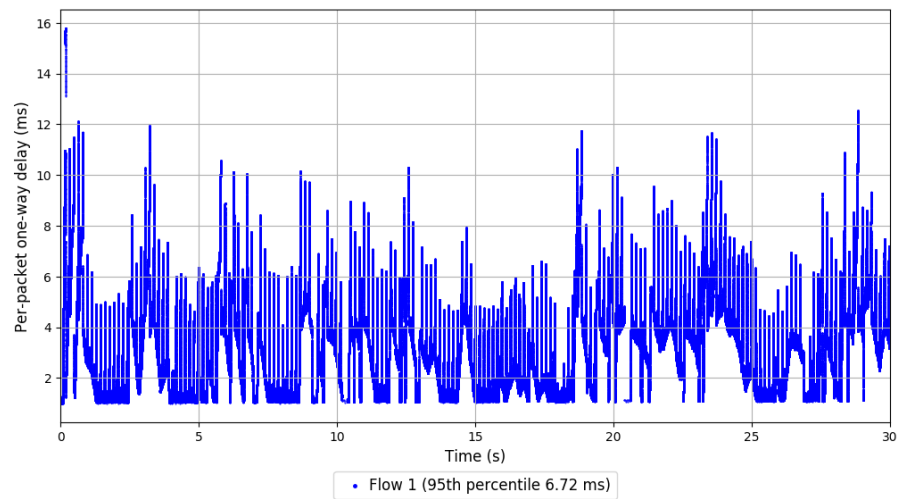
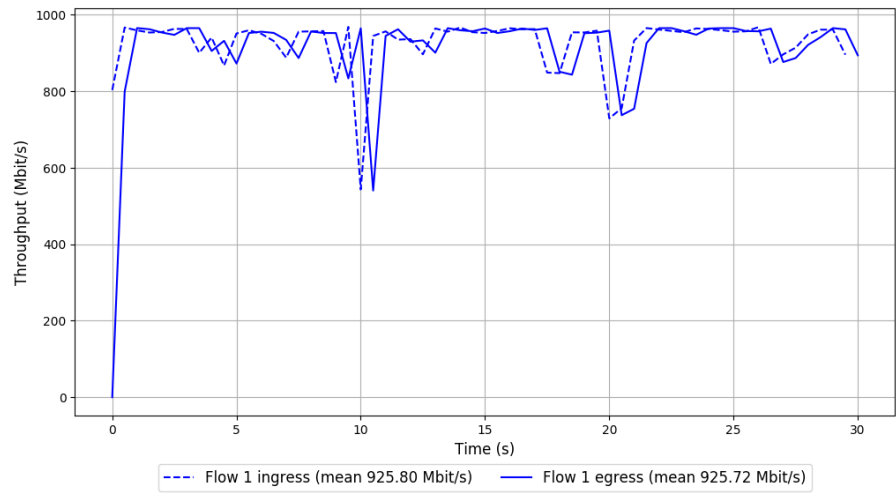
-- Flow 1:

Average throughput: 925.72 Mbit/s

95th percentile per-packet one-way delay: 6.724 ms

Loss rate: 0.01%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-07-12 11:02:20

End at: 2019-07-12 11:02:50

Local clock offset: 5.66 ms

Remote clock offset: 0.535 ms

Below is generated by plot.py at 2019-07-12 13:26:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 874.36 Mbit/s

95th percentile per-packet one-way delay: 5.113 ms

Loss rate: 0.00%

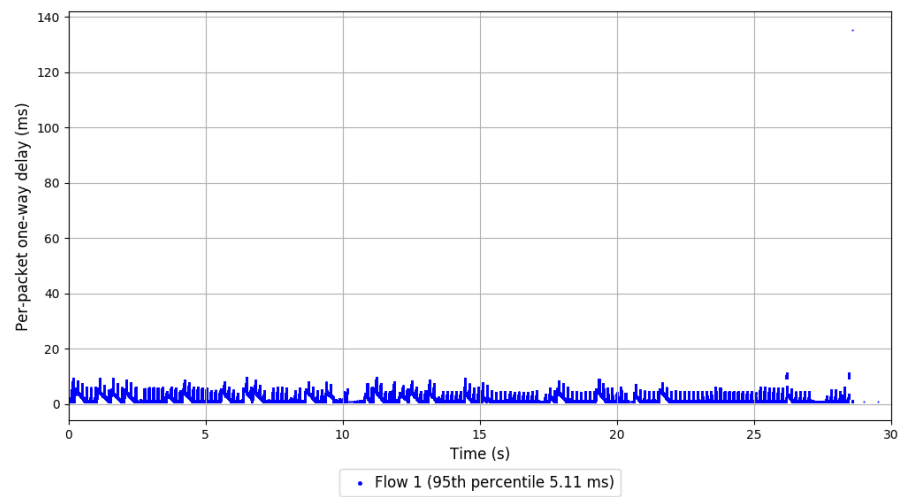
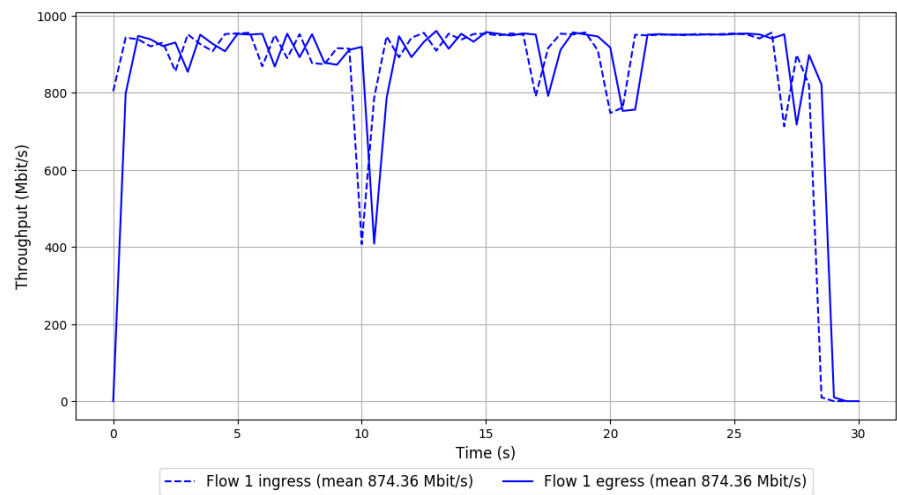
-- Flow 1:

Average throughput: 874.36 Mbit/s

95th percentile per-packet one-way delay: 5.113 ms

Loss rate: 0.00%

Run 2: Report of FillP-Sheep — Data Link

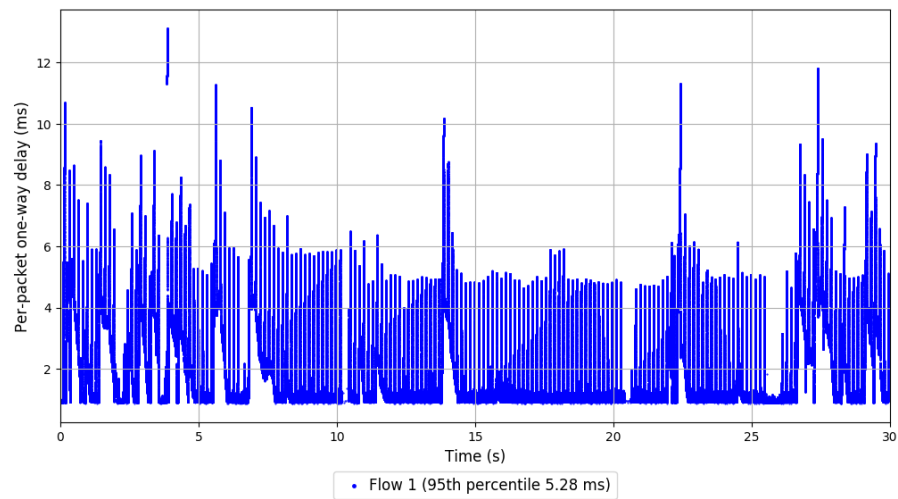
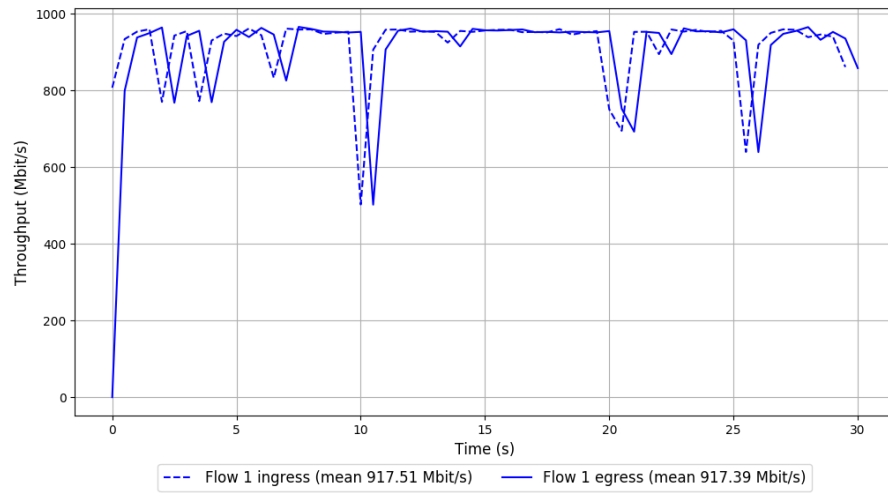


Run 3: Statistics of FillP-Sheep

Start at: 2019-07-12 11:35:51
End at: 2019-07-12 11:36:21
Local clock offset: 4.839 ms
Remote clock offset: -0.65 ms

Below is generated by plot.py at 2019-07-12 13:26:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 917.39 Mbit/s
95th percentile per-packet one-way delay: 5.280 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 917.39 Mbit/s
95th percentile per-packet one-way delay: 5.280 ms
Loss rate: 0.02%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-07-12 12:09:23

End at: 2019-07-12 12:09:53

Local clock offset: 5.101 ms

Remote clock offset: 1.902 ms

Below is generated by plot.py at 2019-07-12 13:32:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 886.18 Mbit/s

95th percentile per-packet one-way delay: 12.980 ms

Loss rate: 0.01%

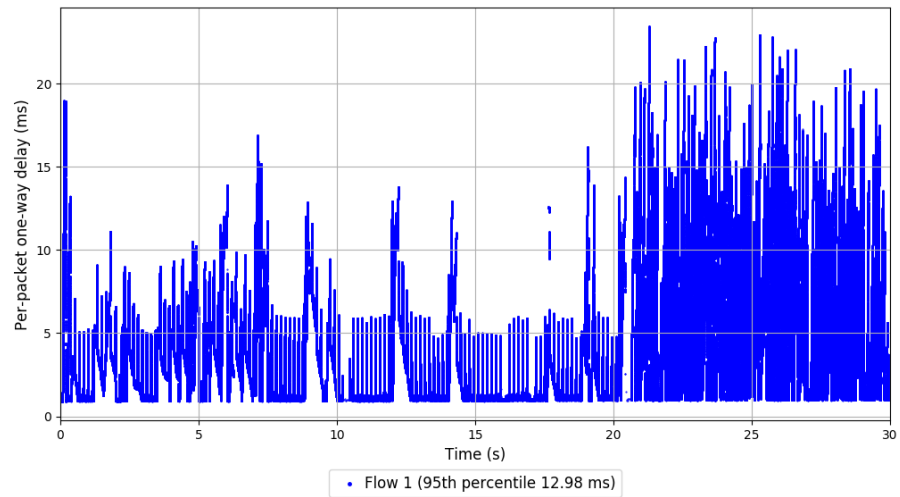
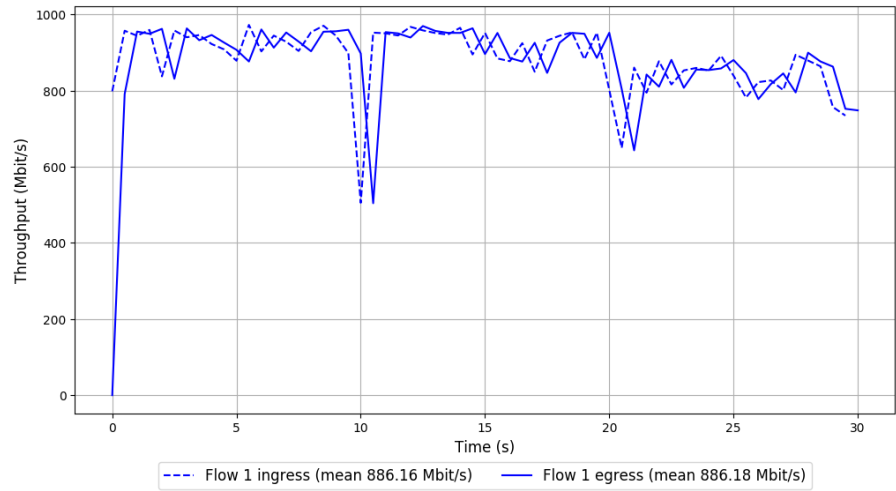
-- Flow 1:

Average throughput: 886.18 Mbit/s

95th percentile per-packet one-way delay: 12.980 ms

Loss rate: 0.01%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-07-12 12:42:58

End at: 2019-07-12 12:43:29

Local clock offset: 5.254 ms

Remote clock offset: 3.726 ms

Below is generated by plot.py at 2019-07-12 13:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 917.00 Mbit/s

95th percentile per-packet one-way delay: 6.372 ms

Loss rate: 0.01%

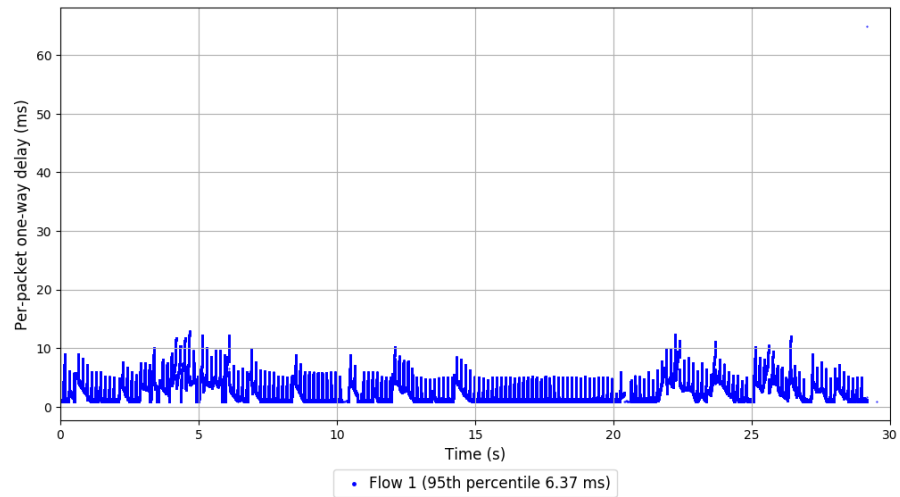
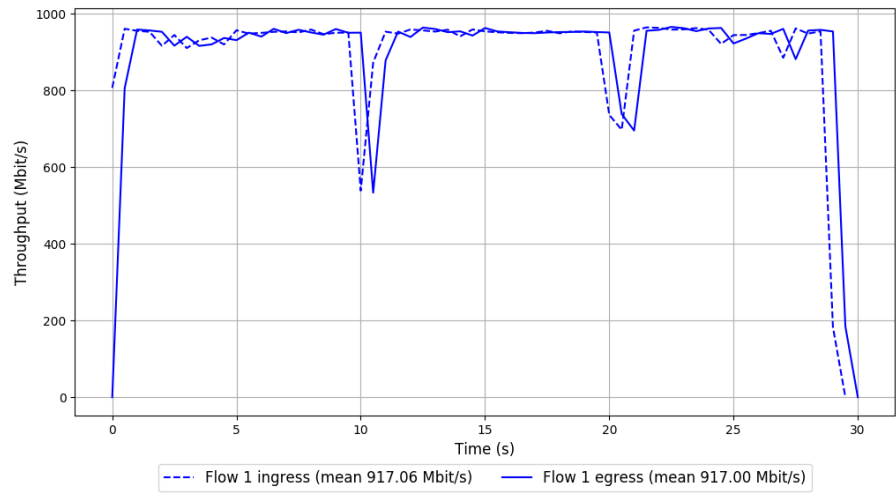
-- Flow 1:

Average throughput: 917.00 Mbit/s

95th percentile per-packet one-way delay: 6.372 ms

Loss rate: 0.01%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-07-12 10:15:42

End at: 2019-07-12 10:16:12

Local clock offset: 6.78 ms

Remote clock offset: 4.242 ms

Below is generated by plot.py at 2019-07-12 13:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.16 Mbit/s

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

Loss rate: 0.00%

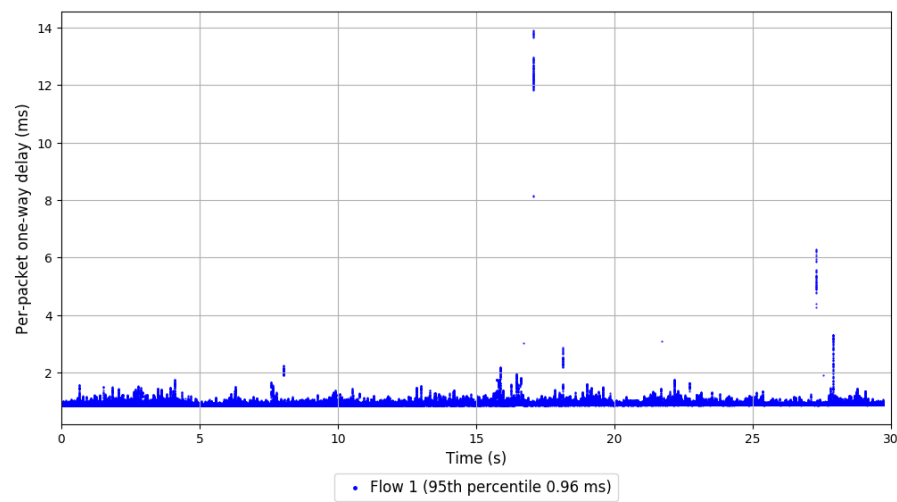
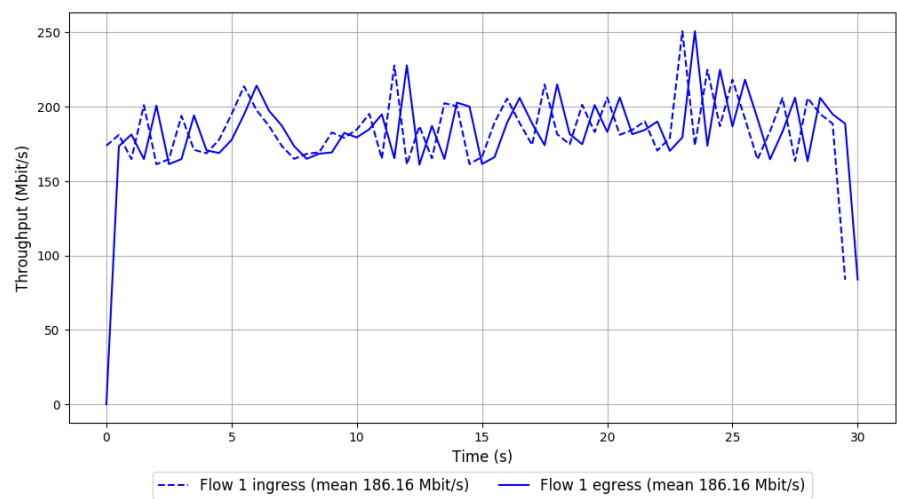
-- Flow 1:

Average throughput: 186.16 Mbit/s

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

Loss rate: 0.00%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-07-12 10:48:55

End at: 2019-07-12 10:49:25

Local clock offset: 6.001 ms

Remote clock offset: 3.487 ms

Below is generated by plot.py at 2019-07-12 13:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.57 Mbit/s

95th percentile per-packet one-way delay: 0.902 ms

Loss rate: 0.01%

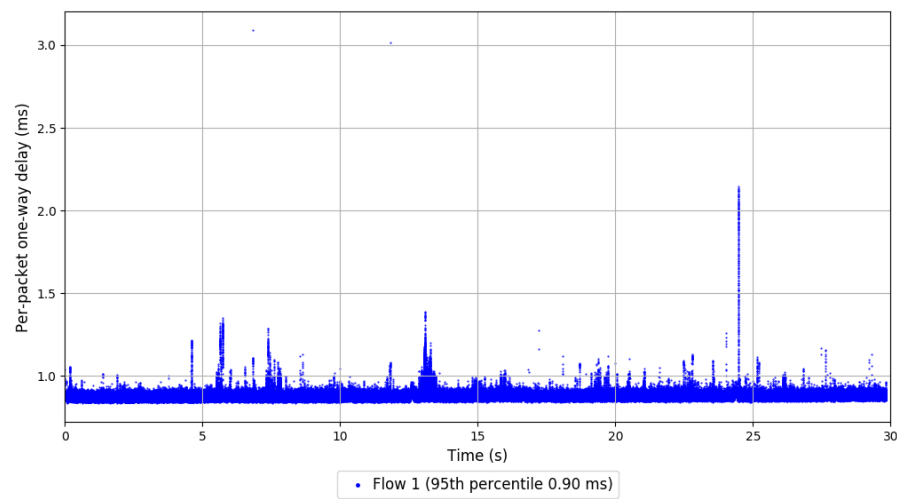
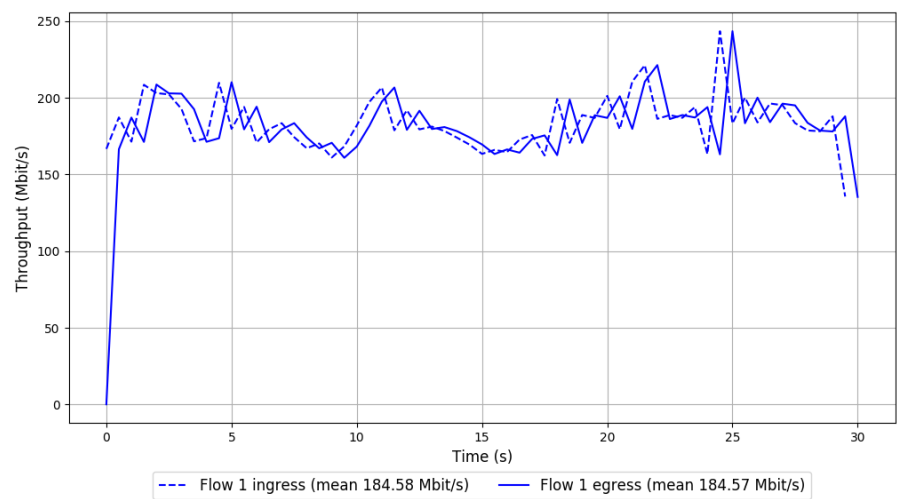
-- Flow 1:

Average throughput: 184.57 Mbit/s

95th percentile per-packet one-way delay: 0.902 ms

Loss rate: 0.01%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-07-12 11:22:23

End at: 2019-07-12 11:22:53

Local clock offset: 4.741 ms

Remote clock offset: -0.939 ms

Below is generated by plot.py at 2019-07-12 13:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.79 Mbit/s

95th percentile per-packet one-way delay: 0.851 ms

Loss rate: 0.00%

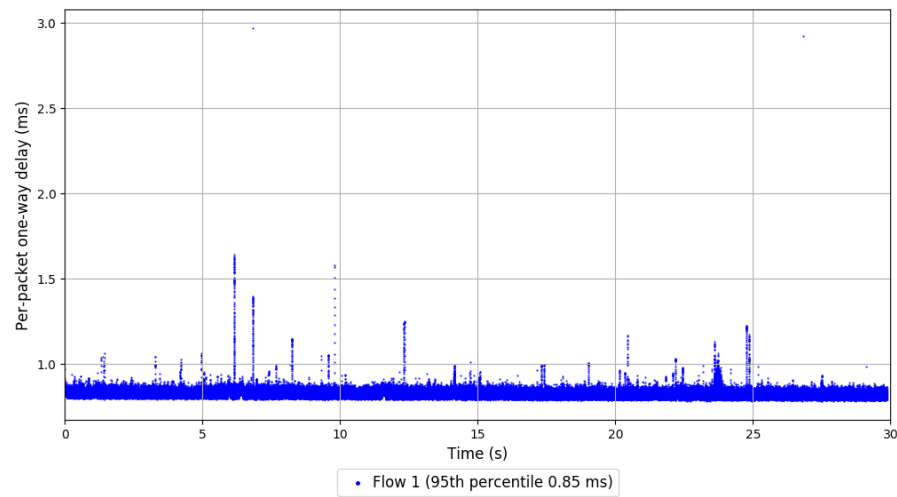
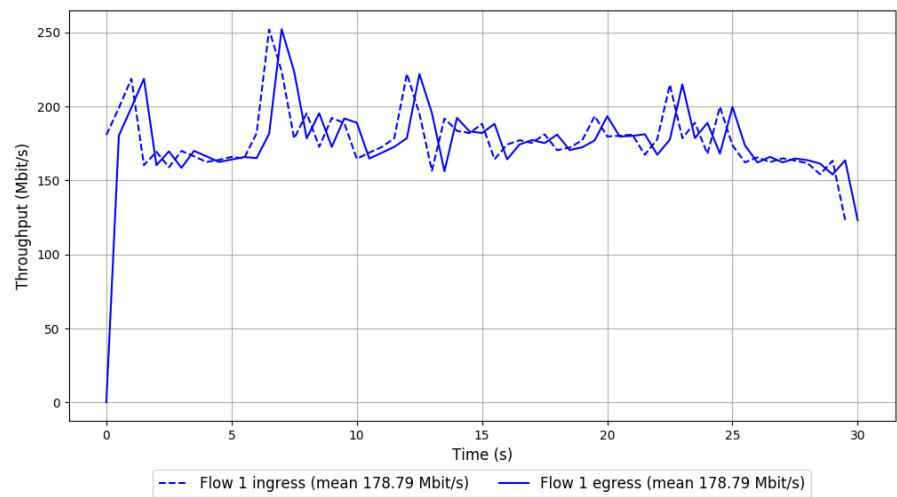
-- Flow 1:

Average throughput: 178.79 Mbit/s

95th percentile per-packet one-way delay: 0.851 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-07-12 11:55:50

End at: 2019-07-12 11:56:20

Local clock offset: 4.976 ms

Remote clock offset: -0.64 ms

Below is generated by plot.py at 2019-07-12 13:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.41 Mbit/s

95th percentile per-packet one-way delay: 0.952 ms

Loss rate: 0.01%

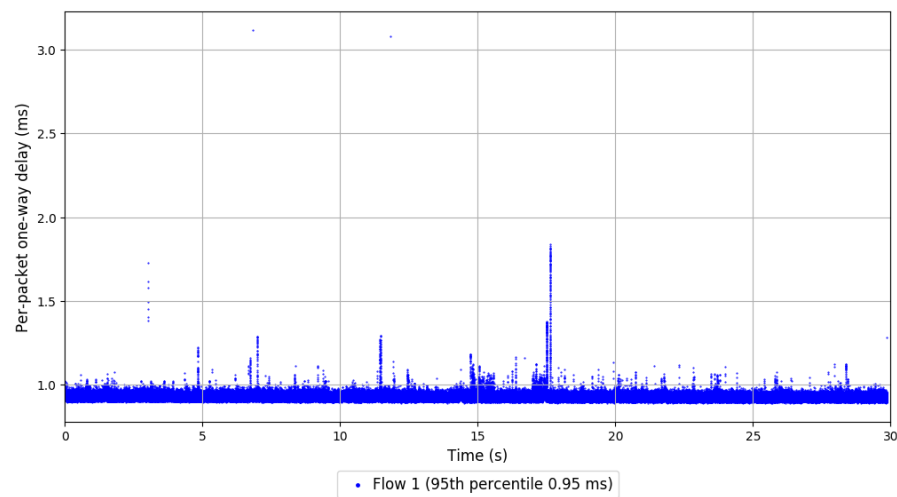
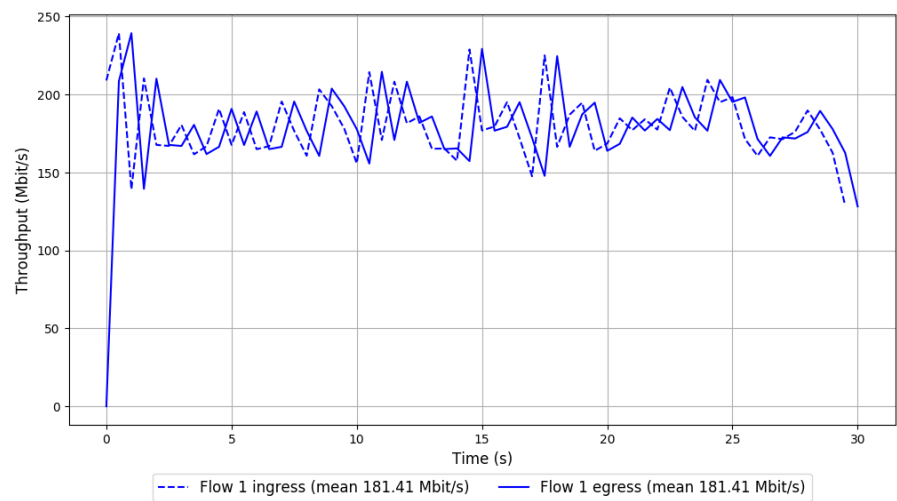
-- Flow 1:

Average throughput: 181.41 Mbit/s

95th percentile per-packet one-way delay: 0.952 ms

Loss rate: 0.01%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-07-12 12:29:20

End at: 2019-07-12 12:29:50

Local clock offset: 5.133 ms

Remote clock offset: 3.402 ms

Below is generated by plot.py at 2019-07-12 13:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.38 Mbit/s

95th percentile per-packet one-way delay: 0.919 ms

Loss rate: 0.01%

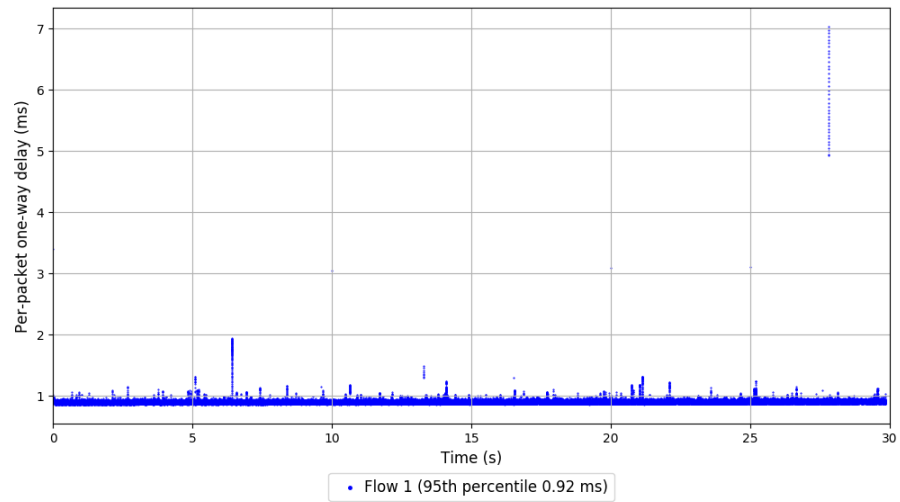
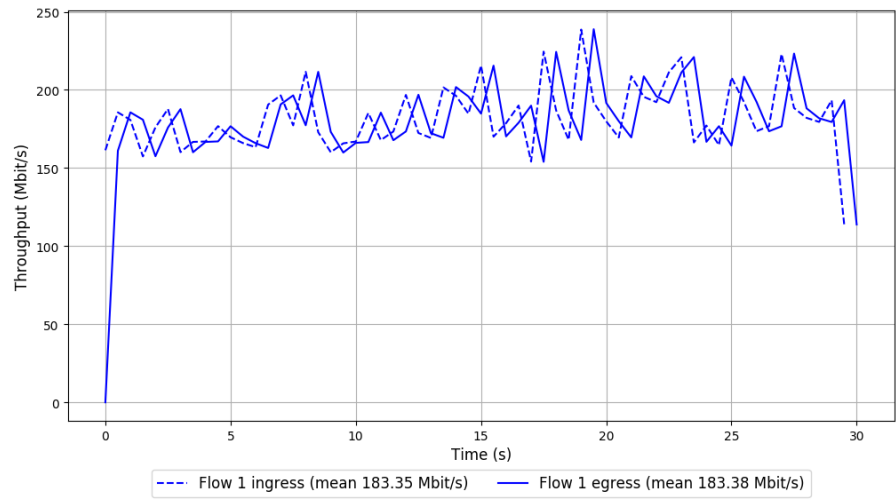
-- Flow 1:

Average throughput: 183.38 Mbit/s

95th percentile per-packet one-way delay: 0.919 ms

Loss rate: 0.01%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-07-12 10:11:14

End at: 2019-07-12 10:11:44

Local clock offset: 6.73 ms

Remote clock offset: 3.834 ms

Below is generated by plot.py at 2019-07-12 13:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 326.83 Mbit/s

95th percentile per-packet one-way delay: 1.139 ms

Loss rate: 0.00%

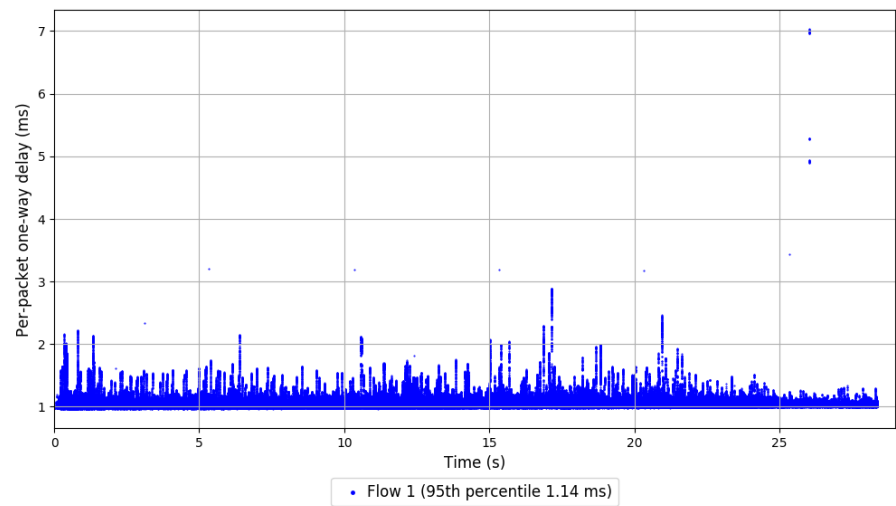
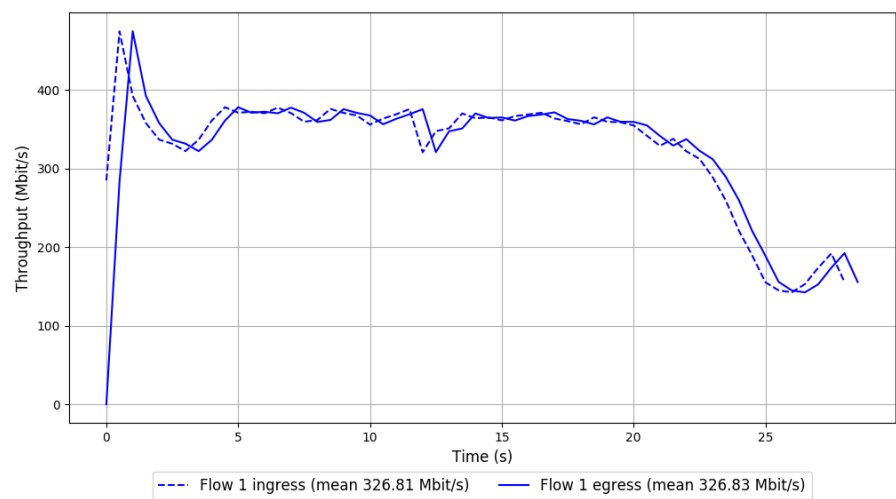
-- Flow 1:

Average throughput: 326.83 Mbit/s

95th percentile per-packet one-way delay: 1.139 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-07-12 10:44:26

End at: 2019-07-12 10:44:56

Local clock offset: 6.042 ms

Remote clock offset: 3.384 ms

Below is generated by plot.py at 2019-07-12 13:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 345.03 Mbit/s

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

Loss rate: 0.00%

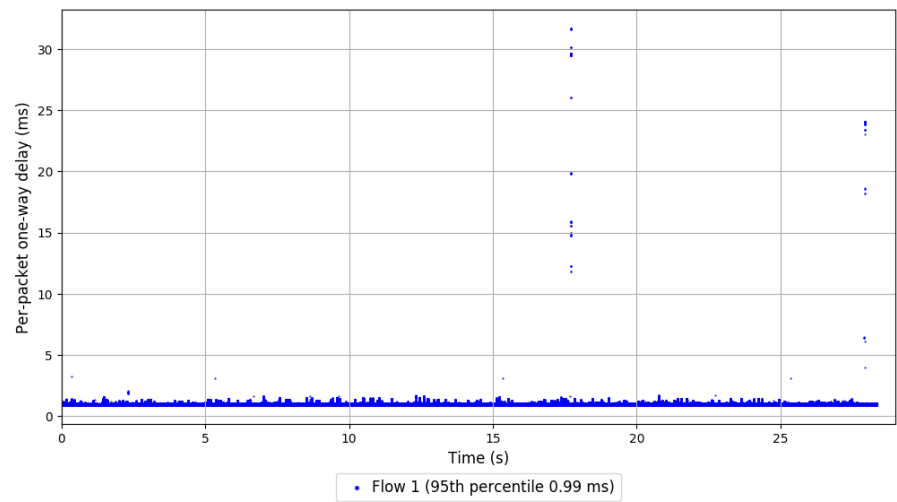
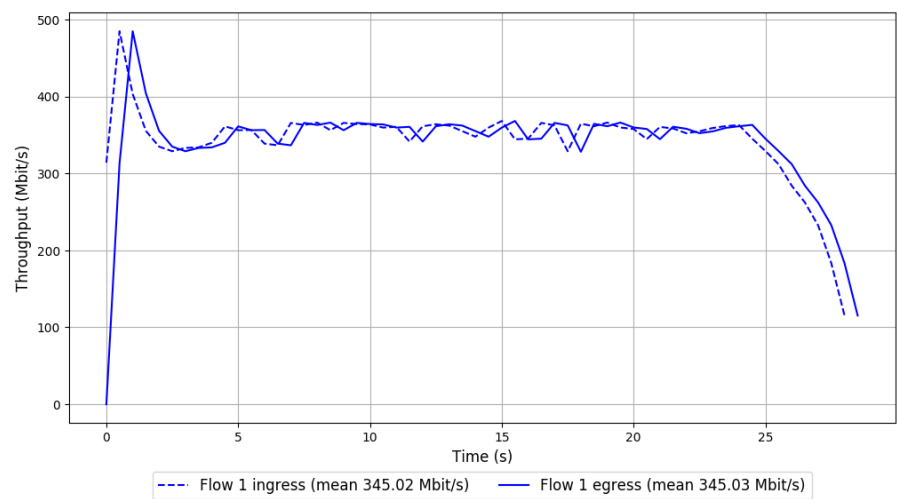
-- Flow 1:

Average throughput: 345.03 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of Indigo-MusesC3 — Data Link

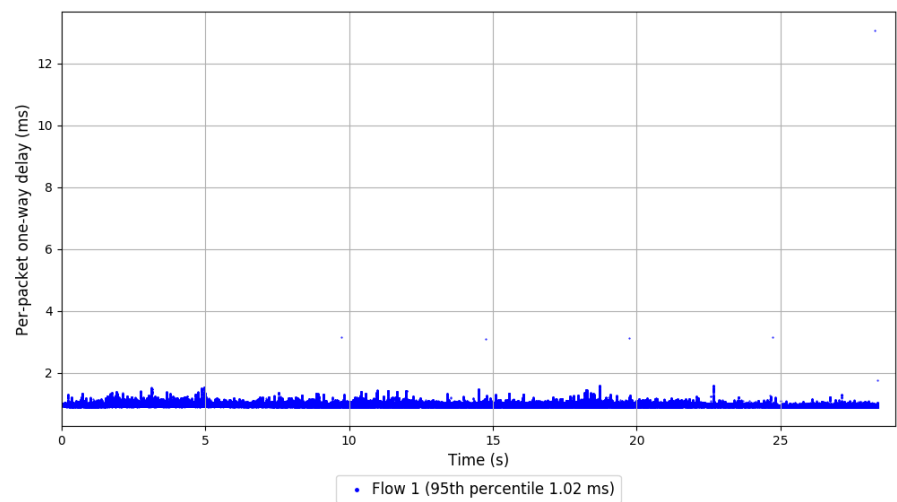
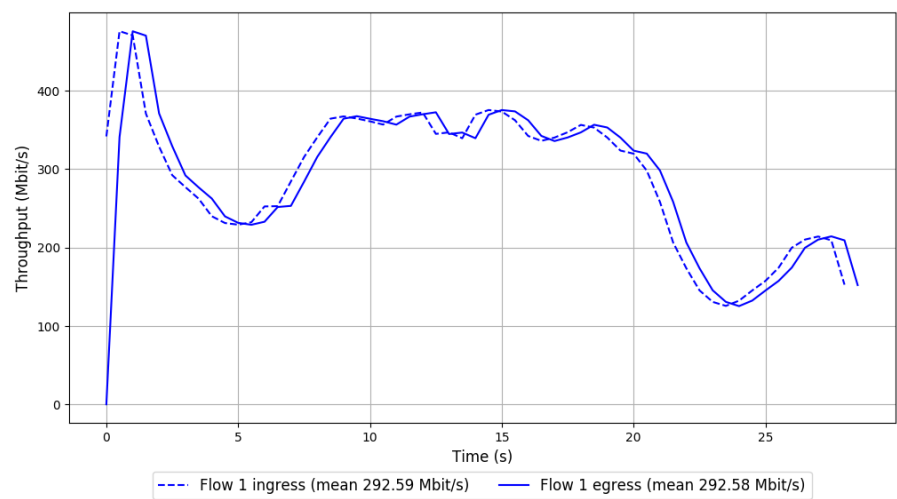


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-07-12 11:17:58
End at: 2019-07-12 11:18:28
Local clock offset: 4.812 ms
Remote clock offset: -0.839 ms

Below is generated by plot.py at 2019-07-12 13:37:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 292.58 Mbit/s
95th percentile per-packet one-way delay: 1.020 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 292.58 Mbit/s
95th percentile per-packet one-way delay: 1.020 ms
Loss rate: 0.01%

Run 3: Report of Indigo-MusesC3 — Data Link

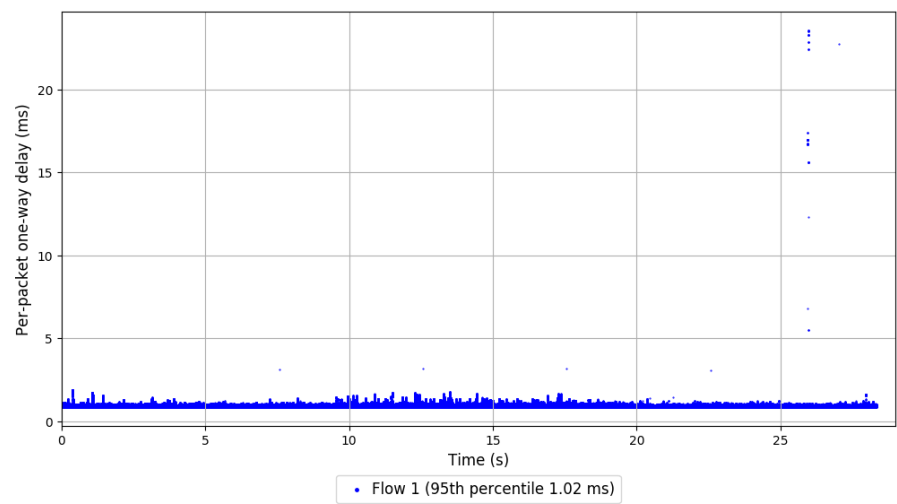
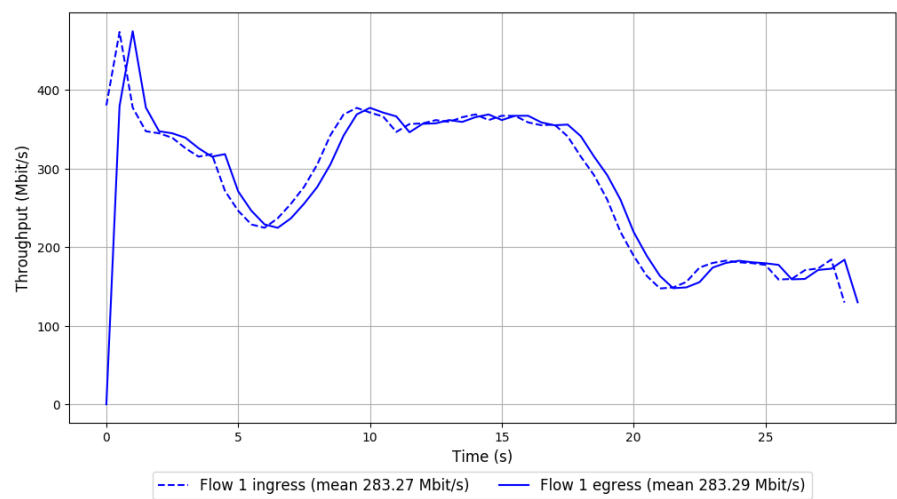


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-07-12 11:51:24
End at: 2019-07-12 11:51:54
Local clock offset: 4.952 ms
Remote clock offset: -0.572 ms

Below is generated by plot.py at 2019-07-12 13:37:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 283.29 Mbit/s
95th percentile per-packet one-way delay: 1.017 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 283.29 Mbit/s
95th percentile per-packet one-way delay: 1.017 ms
Loss rate: 0.00%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-07-12 12:24:56

End at: 2019-07-12 12:25:26

Local clock offset: 5.121 ms

Remote clock offset: 3.182 ms

Below is generated by plot.py at 2019-07-12 13:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.90 Mbit/s

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

Loss rate: 0.01%

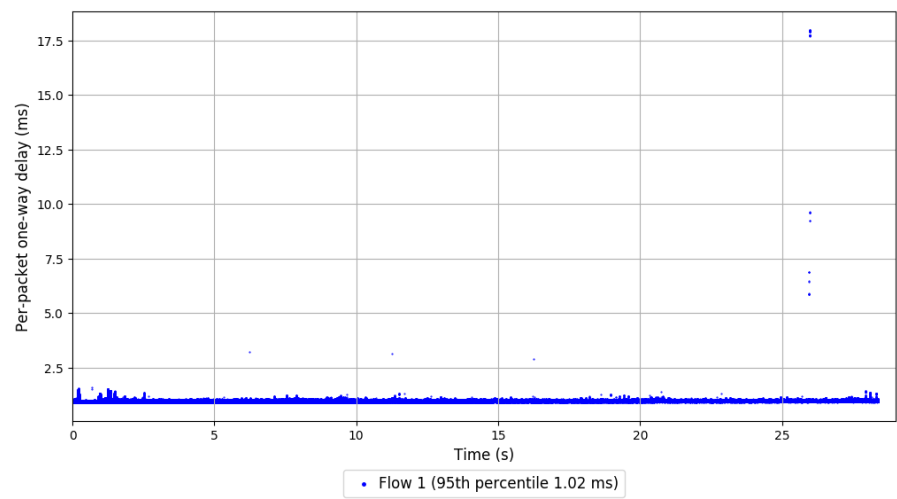
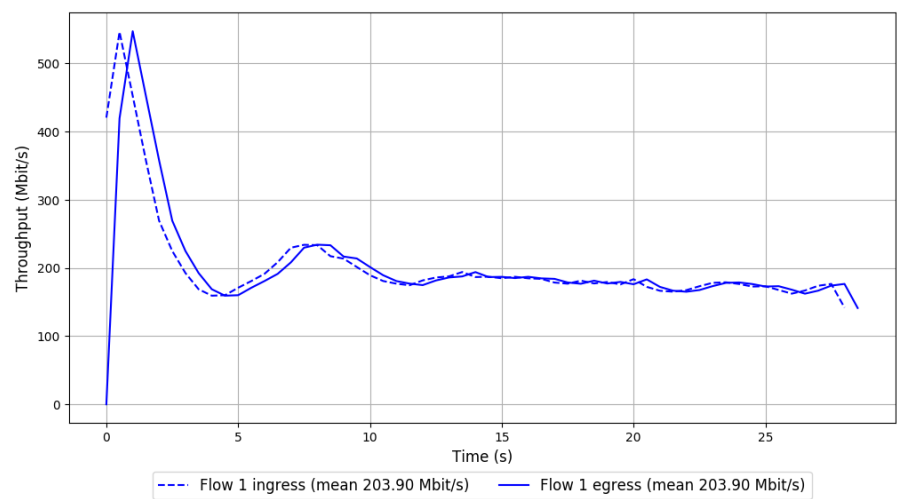
-- Flow 1:

Average throughput: 203.90 Mbit/s

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

Loss rate: 0.01%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-07-12 10:26:37

End at: 2019-07-12 10:27:07

Local clock offset: 7.19 ms

Remote clock offset: 3.394 ms

Below is generated by plot.py at 2019-07-12 13:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.16 Mbit/s

95th percentile per-packet one-way delay: 0.948 ms

Loss rate: 0.01%

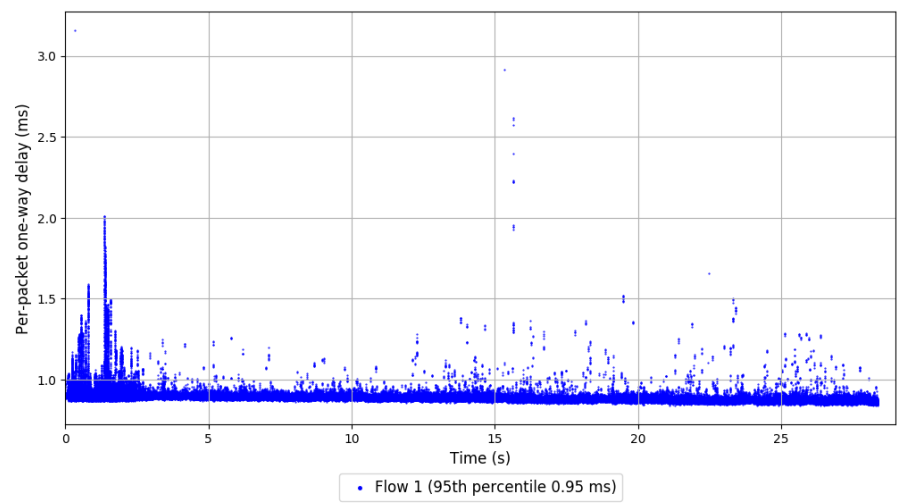
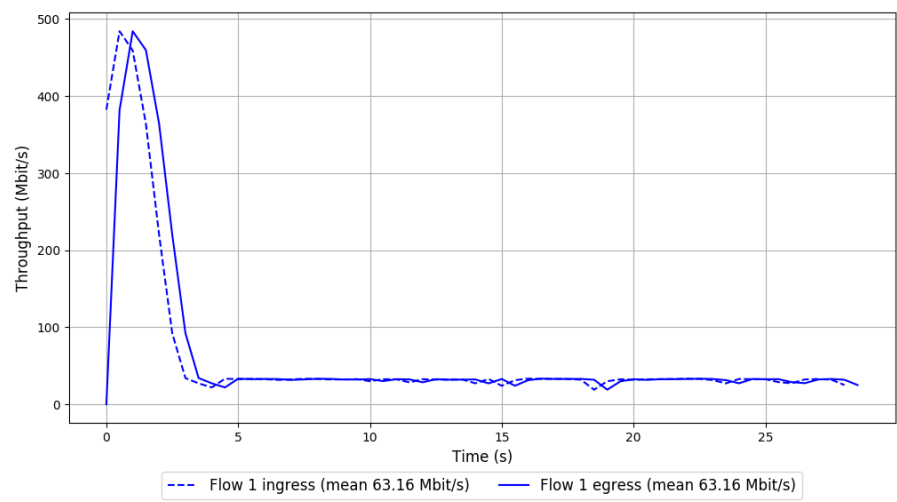
-- Flow 1:

Average throughput: 63.16 Mbit/s

95th percentile per-packet one-way delay: 0.948 ms

Loss rate: 0.01%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-07-12 10:59:51

End at: 2019-07-12 11:00:21

Local clock offset: 6.03 ms

Remote clock offset: 0.888 ms

Below is generated by plot.py at 2019-07-12 13:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.01 Mbit/s

95th percentile per-packet one-way delay: 1.092 ms

Loss rate: 0.01%

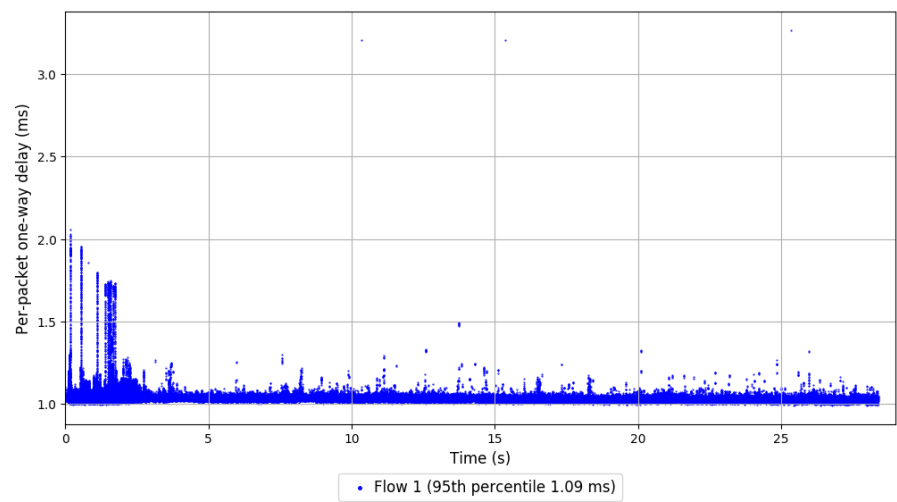
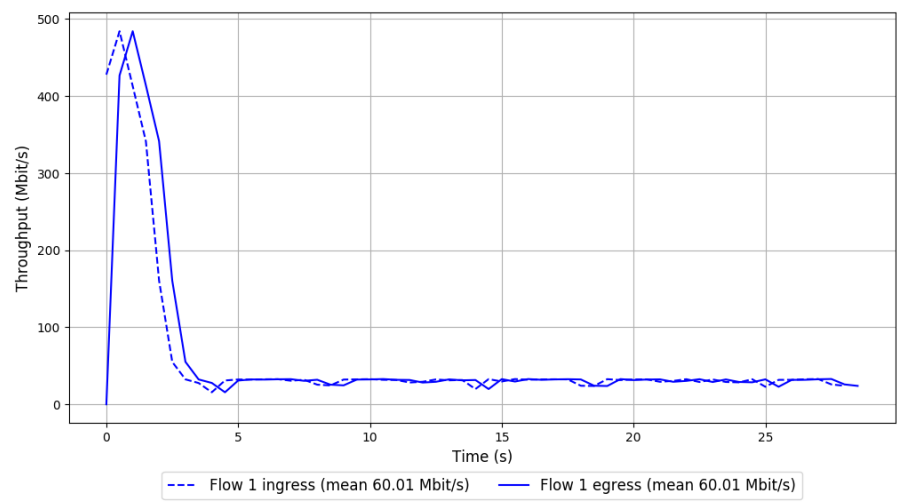
-- Flow 1:

Average throughput: 60.01 Mbit/s

95th percentile per-packet one-way delay: 1.092 ms

Loss rate: 0.01%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-07-12 11:33:22

End at: 2019-07-12 11:33:52

Local clock offset: 4.811 ms

Remote clock offset: -0.705 ms

Below is generated by plot.py at 2019-07-12 13:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.54 Mbit/s

95th percentile per-packet one-way delay: 1.018 ms

Loss rate: 0.01%

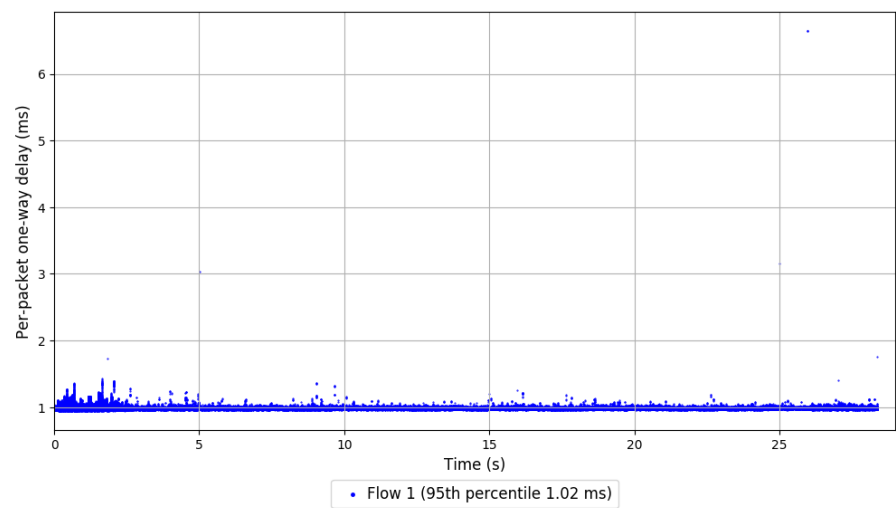
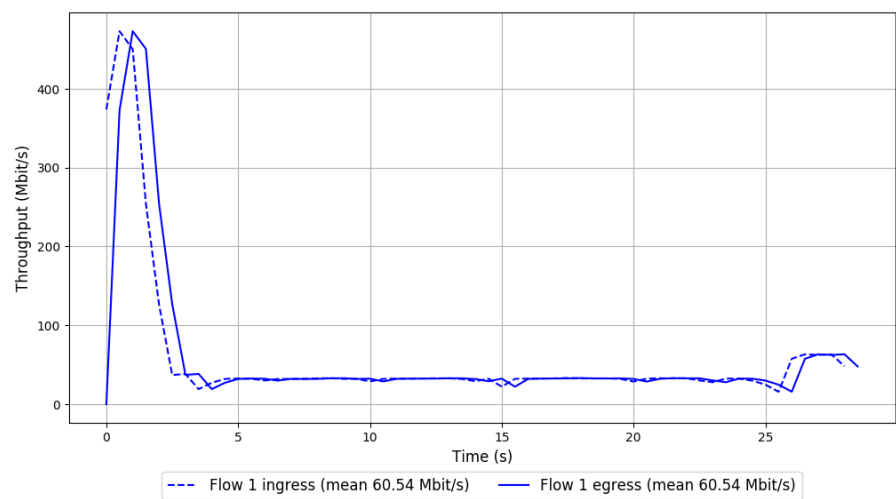
-- Flow 1:

Average throughput: 60.54 Mbit/s

95th percentile per-packet one-way delay: 1.018 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-07-12 12:06:52

End at: 2019-07-12 12:07:22

Local clock offset: 5.042 ms

Remote clock offset: 1.528 ms

Below is generated by plot.py at 2019-07-12 13:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 120.26 Mbit/s

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

Loss rate: 0.01%

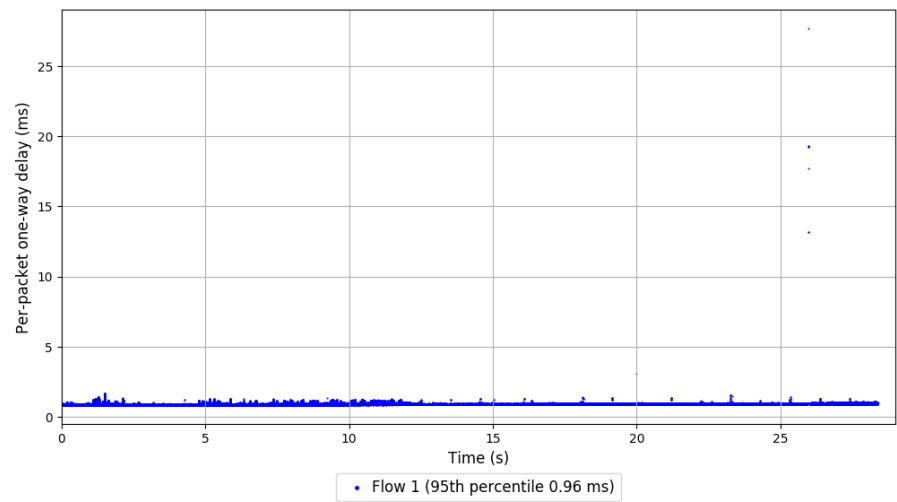
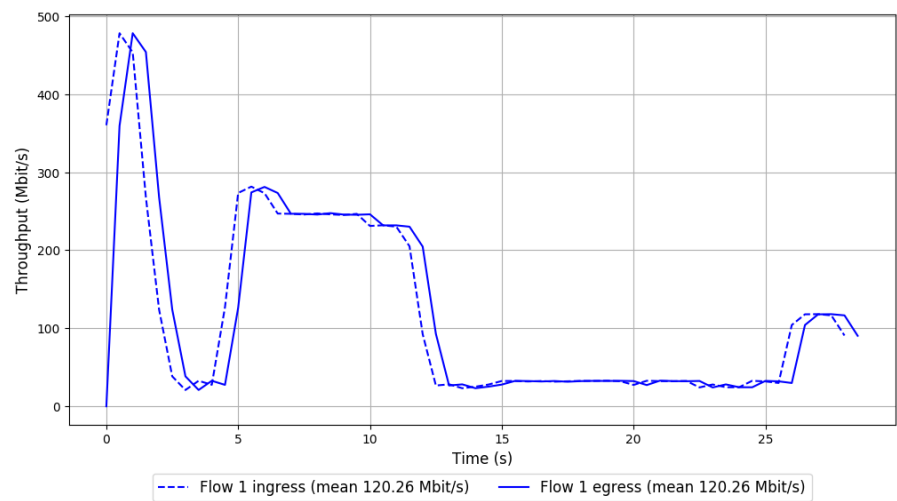
-- Flow 1:

Average throughput: 120.26 Mbit/s

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

Loss rate: 0.01%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-07-12 12:40:24

End at: 2019-07-12 12:40:54

Local clock offset: 5.247 ms

Remote clock offset: 3.752 ms

Below is generated by plot.py at 2019-07-12 13:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.17 Mbit/s

95th percentile per-packet one-way delay: 0.960 ms

Loss rate: 0.01%

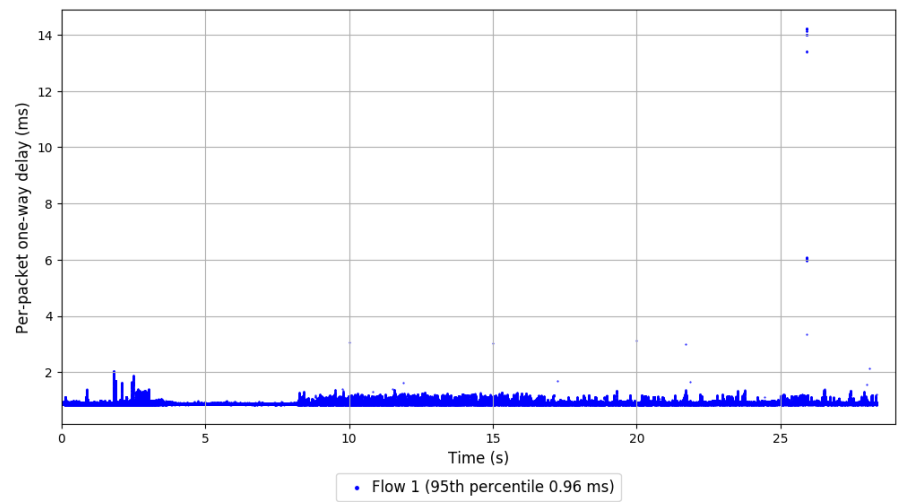
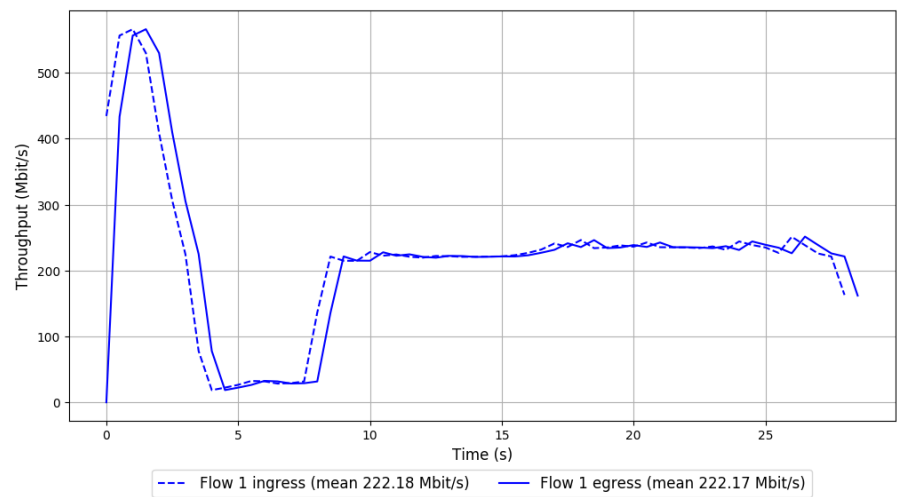
-- Flow 1:

Average throughput: 222.17 Mbit/s

95th percentile per-packet one-way delay: 0.960 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-07-12 10:08:43

End at: 2019-07-12 10:09:13

Local clock offset: 6.695 ms

Remote clock offset: 3.696 ms

Below is generated by plot.py at 2019-07-12 13:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.99 Mbit/s

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

Loss rate: 0.01%

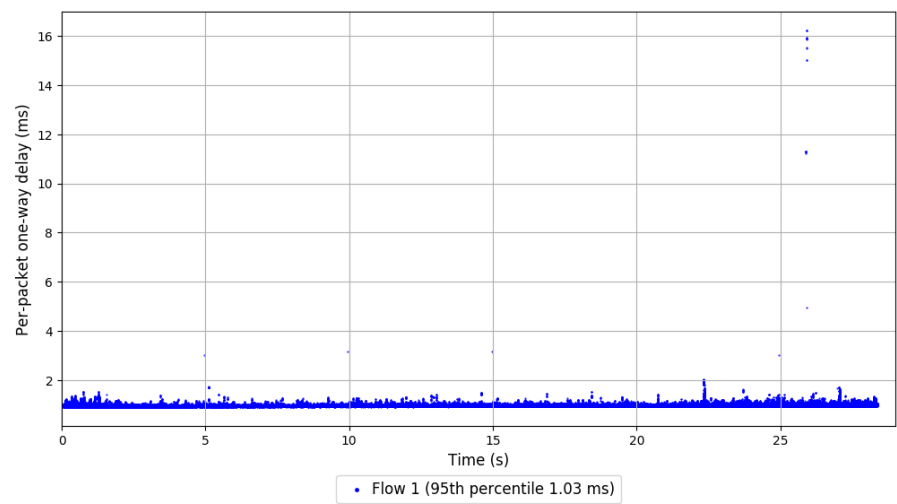
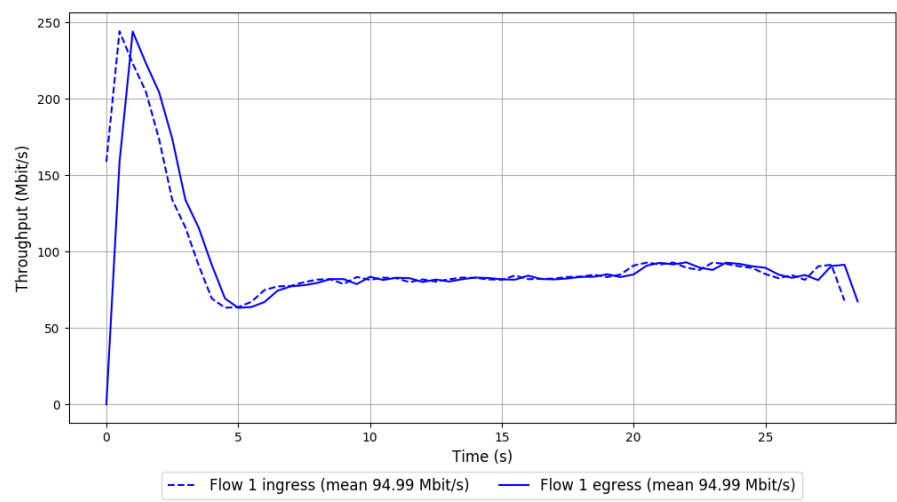
-- Flow 1:

Average throughput: 94.99 Mbit/s

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

Loss rate: 0.01%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-07-12 10:41:54

End at: 2019-07-12 10:42:24

Local clock offset: 6.111 ms

Remote clock offset: 3.301 ms

Below is generated by plot.py at 2019-07-12 13:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.04 Mbit/s

95th percentile per-packet one-way delay: 0.985 ms

Loss rate: 0.00%

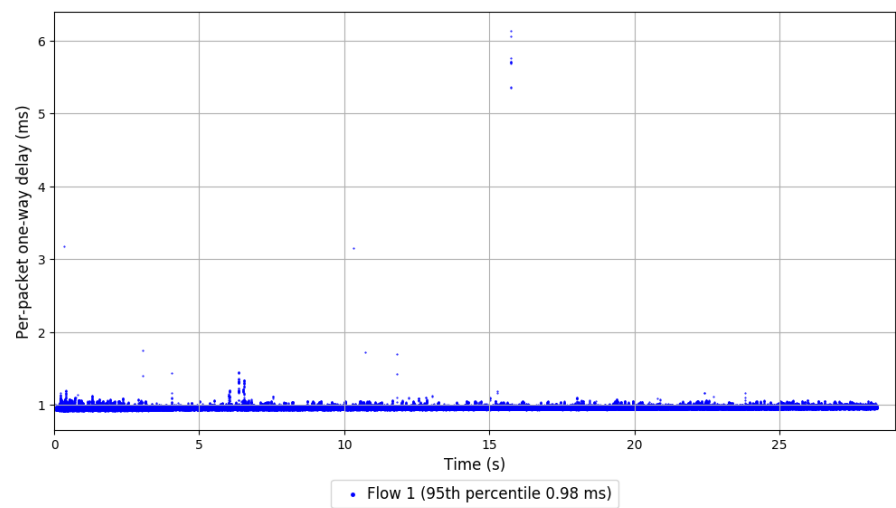
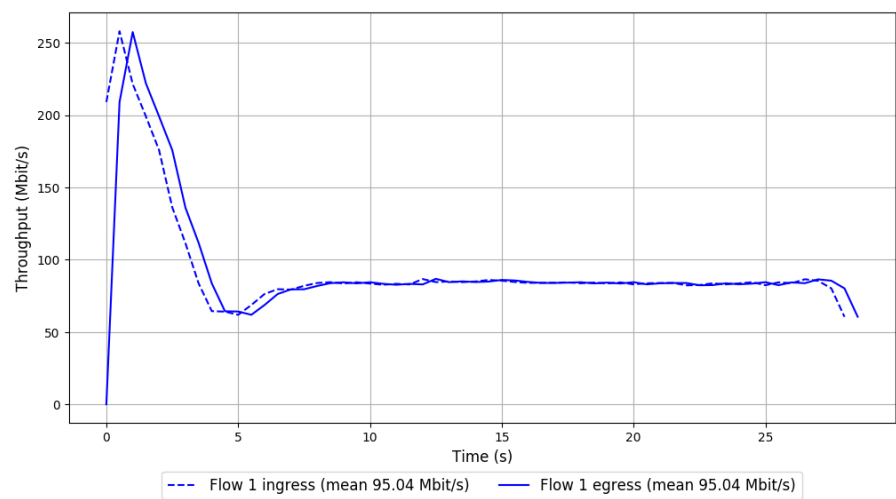
-- Flow 1:

Average throughput: 95.04 Mbit/s

95th percentile per-packet one-way delay: 0.985 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-07-12 11:15:26

End at: 2019-07-12 11:15:56

Local clock offset: 4.867 ms

Remote clock offset: -0.662 ms

Below is generated by plot.py at 2019-07-12 13:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.52 Mbit/s

95th percentile per-packet one-way delay: 0.929 ms

Loss rate: 0.01%

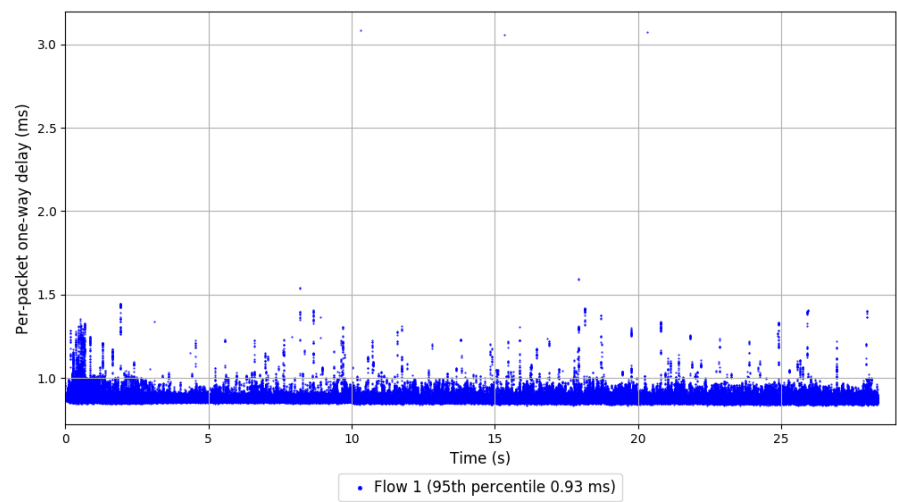
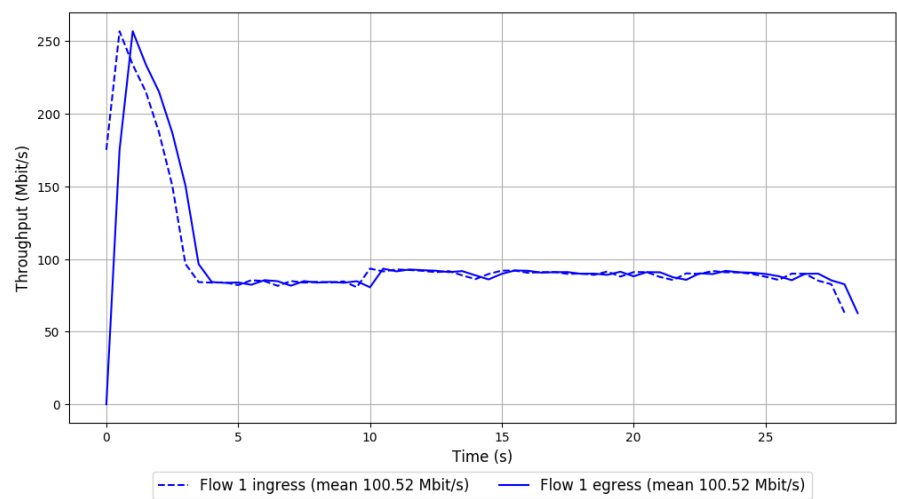
-- Flow 1:

Average throughput: 100.52 Mbit/s

95th percentile per-packet one-way delay: 0.929 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-07-12 11:48:53

End at: 2019-07-12 11:49:23

Local clock offset: 4.927 ms

Remote clock offset: -0.612 ms

Below is generated by plot.py at 2019-07-12 13:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.71 Mbit/s

95th percentile per-packet one-way delay: 0.995 ms

Loss rate: 0.01%

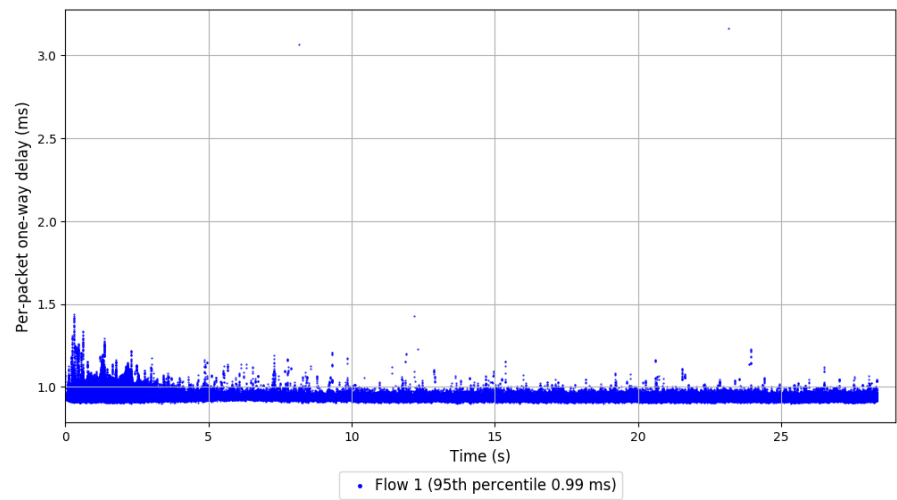
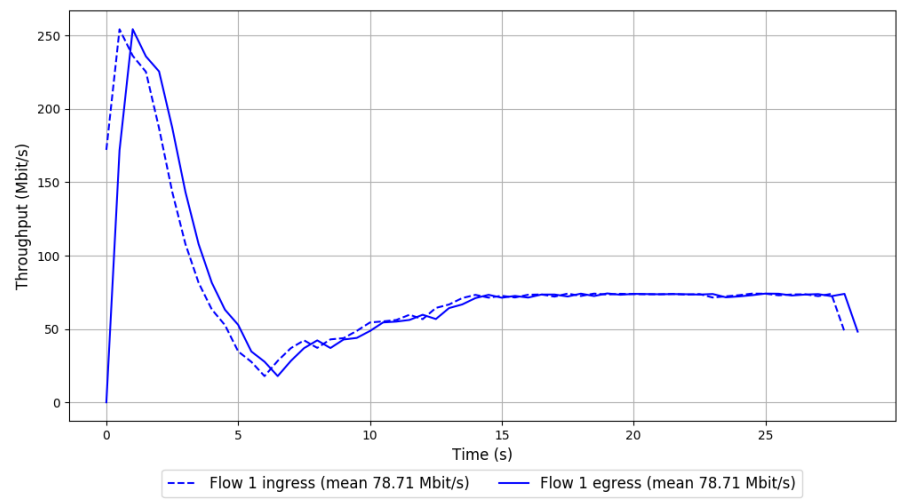
-- Flow 1:

Average throughput: 78.71 Mbit/s

95th percentile per-packet one-way delay: 0.995 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-07-12 12:22:25

End at: 2019-07-12 12:22:55

Local clock offset: 5.125 ms

Remote clock offset: 3.124 ms

Below is generated by plot.py at 2019-07-12 13:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.85 Mbit/s

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

Loss rate: 0.00%

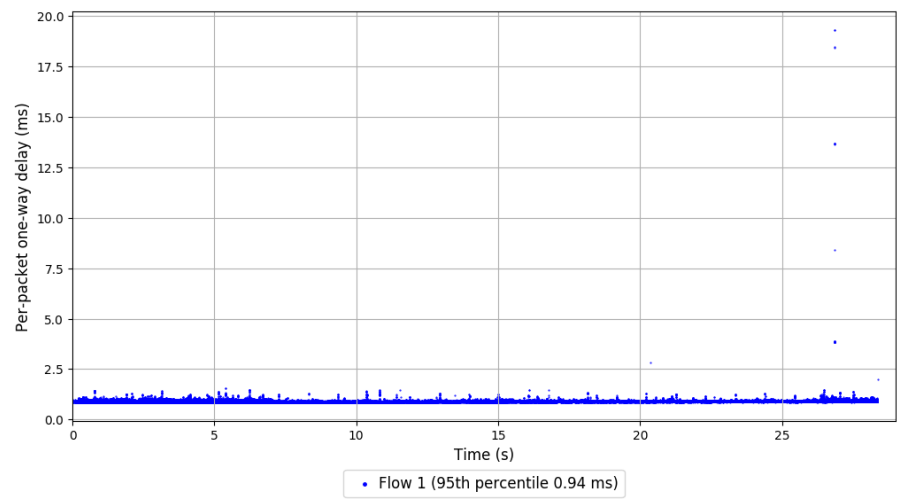
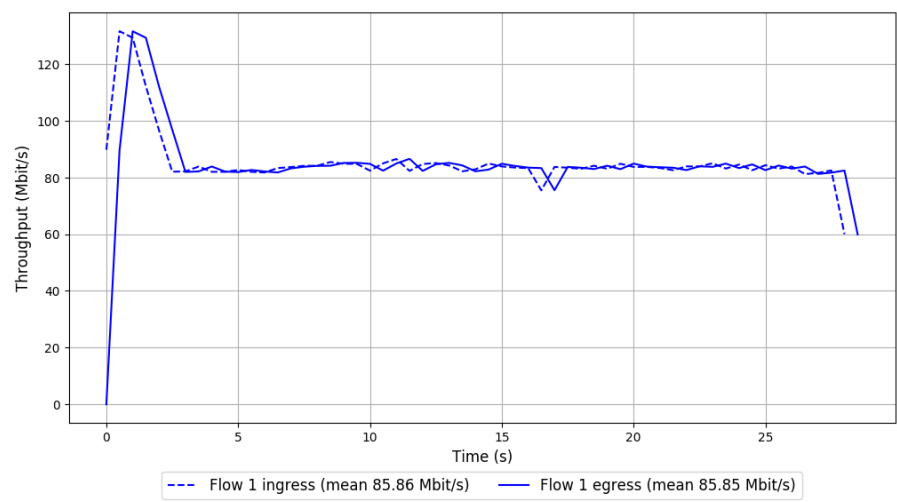
-- Flow 1:

Average throughput: 85.85 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of Indigo-MusesD — Data Link

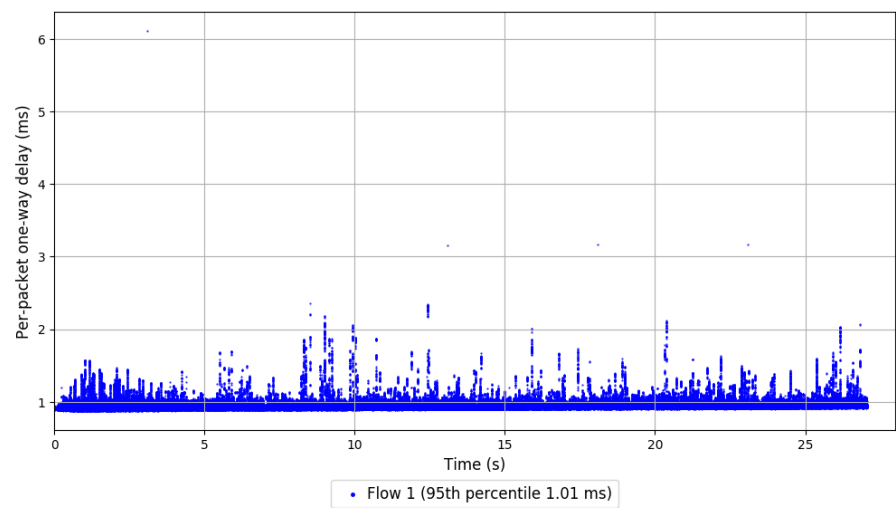
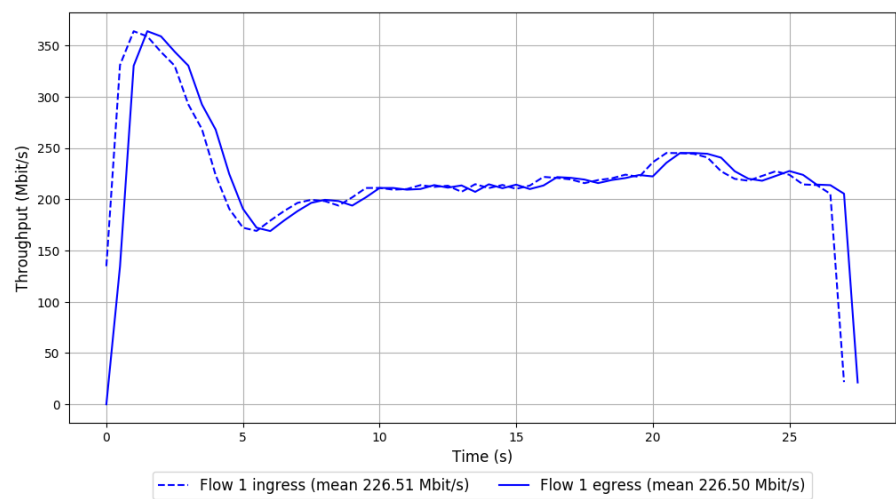


```
Run 1: Statistics of Indigo-MusesT

Start at: 2019-07-12 10:07:22
End at: 2019-07-12 10:07:52
Local clock offset: 6.747 ms
Remote clock offset: 3.667 ms

# Below is generated by plot.py at 2019-07-12 13:37:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 226.50 Mbit/s
95th percentile per-packet one-way delay: 1.006 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 226.50 Mbit/s
95th percentile per-packet one-way delay: 1.006 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-07-12 10:40:33

End at: 2019-07-12 10:41:03

Local clock offset: 6.143 ms

Remote clock offset: 3.277 ms

Below is generated by plot.py at 2019-07-12 13:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 234.22 Mbit/s

95th percentile per-packet one-way delay: 0.988 ms

Loss rate: 0.01%

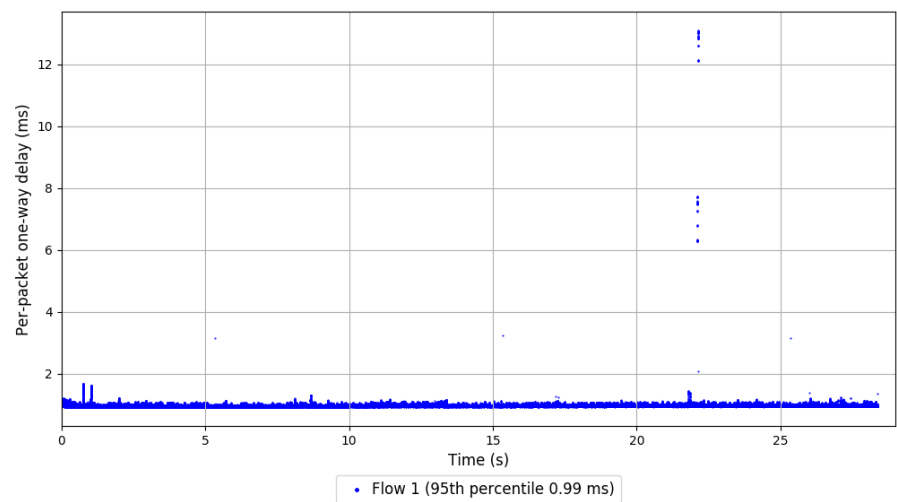
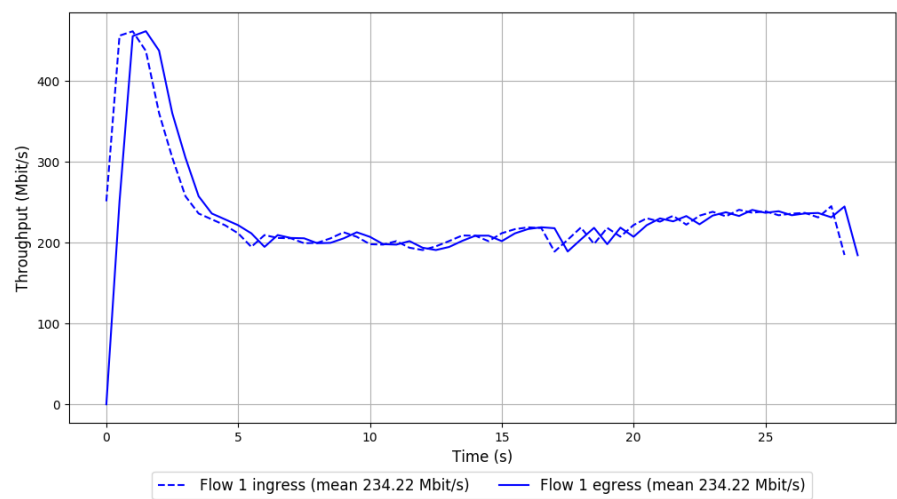
-- Flow 1:

Average throughput: 234.22 Mbit/s

95th percentile per-packet one-way delay: 0.988 ms

Loss rate: 0.01%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-07-12 11:14:06

End at: 2019-07-12 11:14:36

Local clock offset: 4.927 ms

Remote clock offset: -0.641 ms

Below is generated by plot.py at 2019-07-12 13:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.57 Mbit/s

95th percentile per-packet one-way delay: 1.012 ms

Loss rate: 0.00%

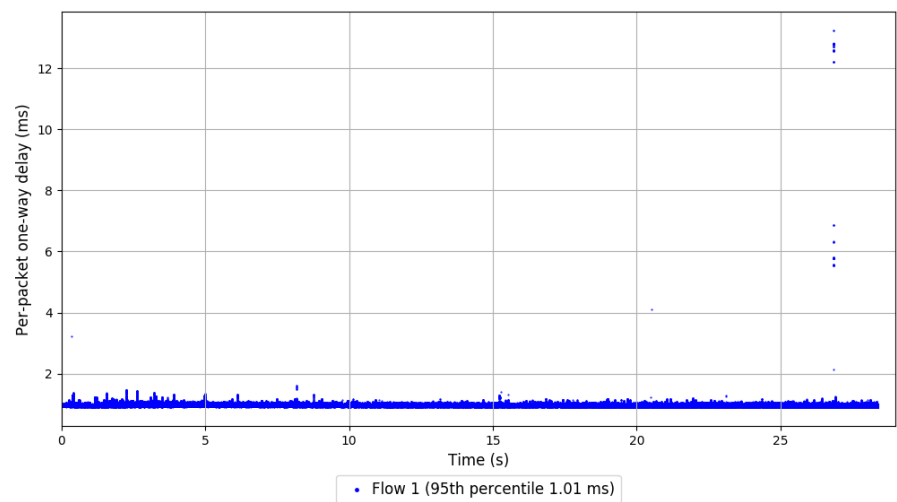
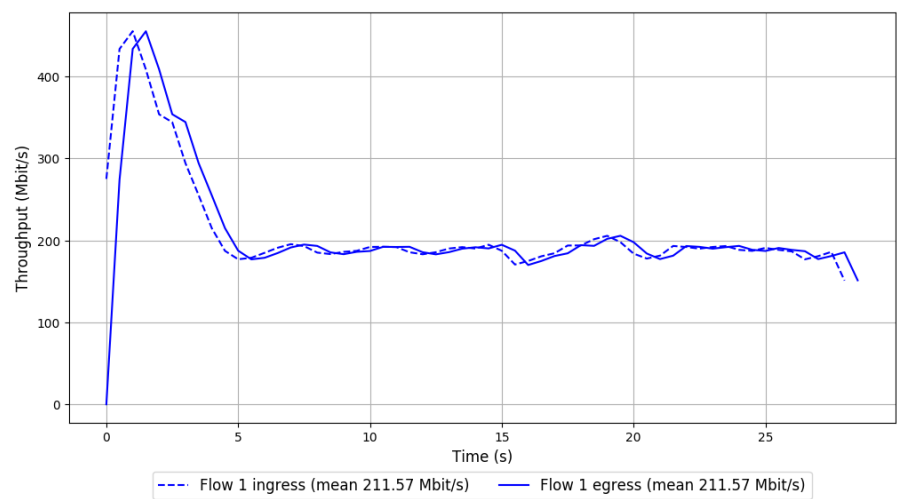
-- Flow 1:

Average throughput: 211.57 Mbit/s

95th percentile per-packet one-way delay: 1.012 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-07-12 11:47:33

End at: 2019-07-12 11:48:03

Local clock offset: 4.928 ms

Remote clock offset: -0.531 ms

Below is generated by plot.py at 2019-07-12 13:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.00 Mbit/s

95th percentile per-packet one-way delay: 0.942 ms

Loss rate: 0.01%

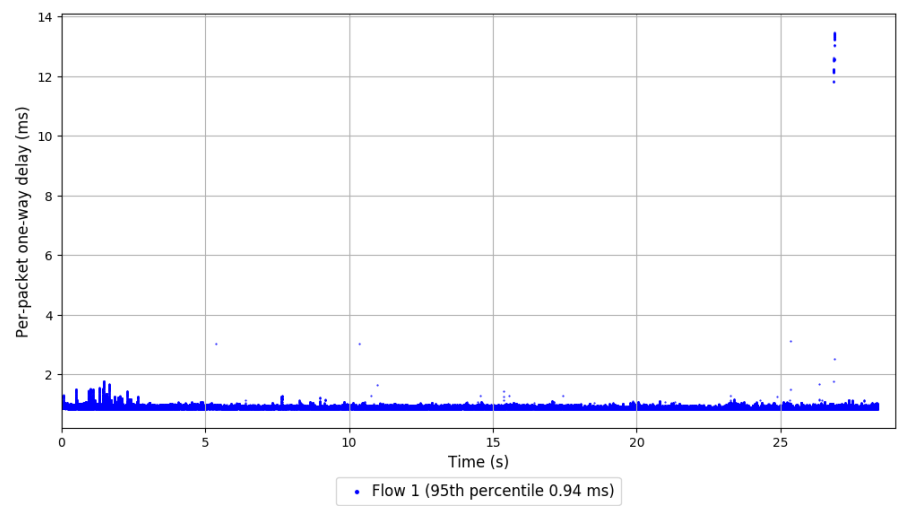
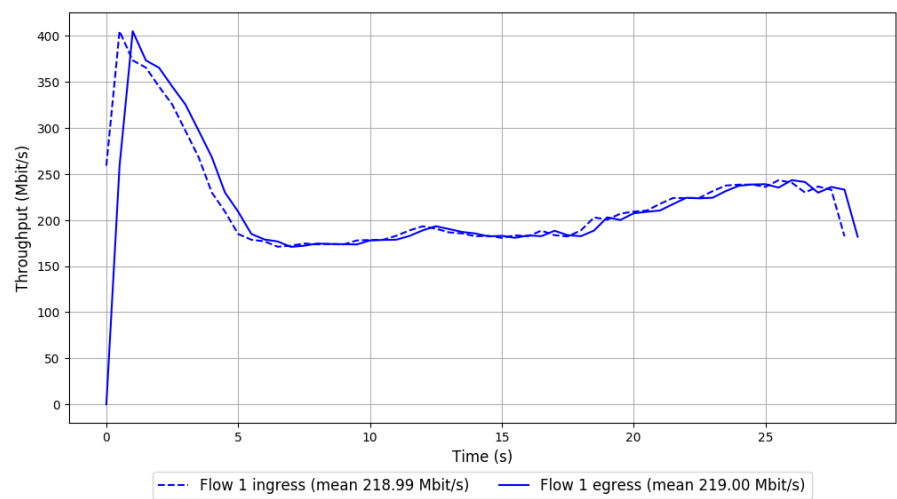
-- Flow 1:

Average throughput: 219.00 Mbit/s

95th percentile per-packet one-way delay: 0.942 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-07-12 12:21:04

End at: 2019-07-12 12:21:34

Local clock offset: 5.132 ms

Remote clock offset: 2.997 ms

Below is generated by plot.py at 2019-07-12 13:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 230.02 Mbit/s

95th percentile per-packet one-way delay: 0.996 ms

Loss rate: 0.00%

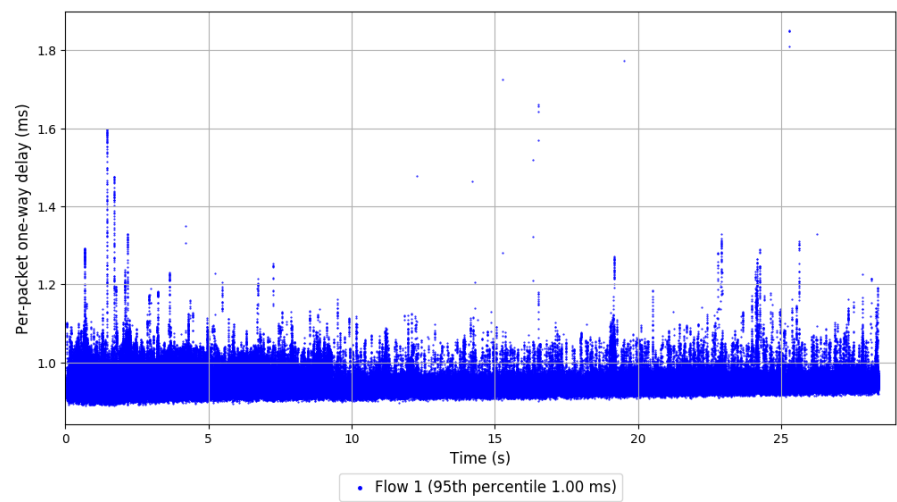
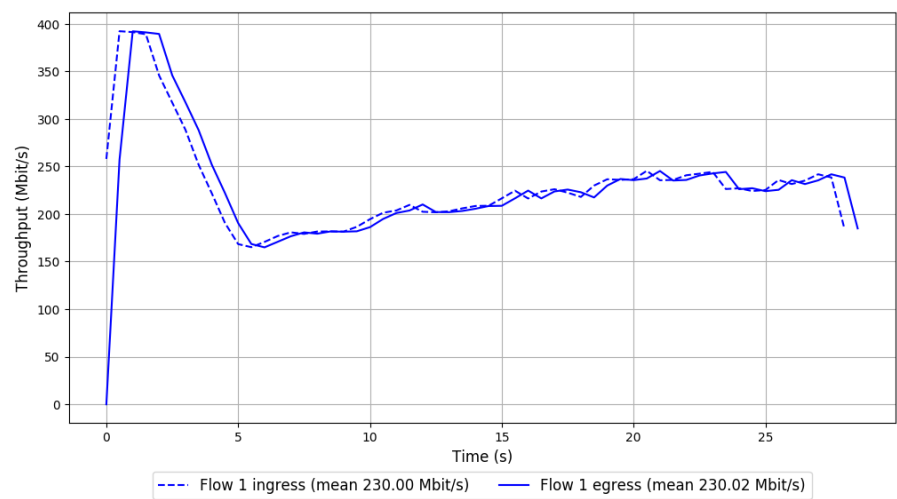
-- Flow 1:

Average throughput: 230.02 Mbit/s

95th percentile per-packet one-way delay: 0.996 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2019-07-12 10:34:47

End at: 2019-07-12 10:35:17

Local clock offset: 6.462 ms

Remote clock offset: 3.259 ms

Below is generated by plot.py at 2019-07-12 13:38:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 456.99 Mbit/s

95th percentile per-packet one-way delay: 1.906 ms

Loss rate: 0.00%

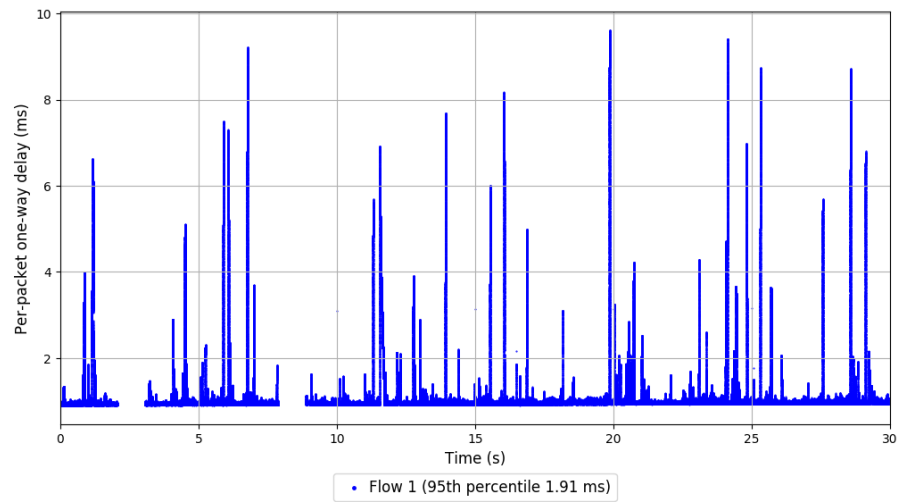
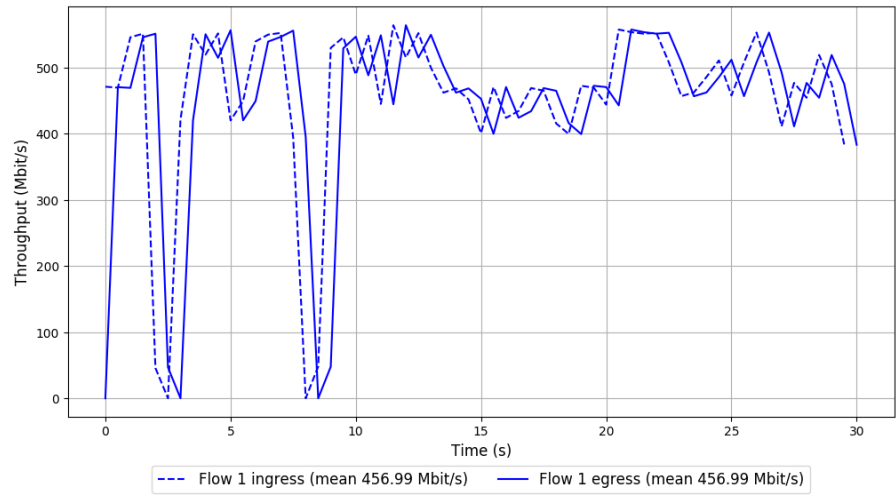
-- Flow 1:

Average throughput: 456.99 Mbit/s

95th percentile per-packet one-way delay: 1.906 ms

Loss rate: 0.00%

Run 1: Report of LEDBAT — Data Link

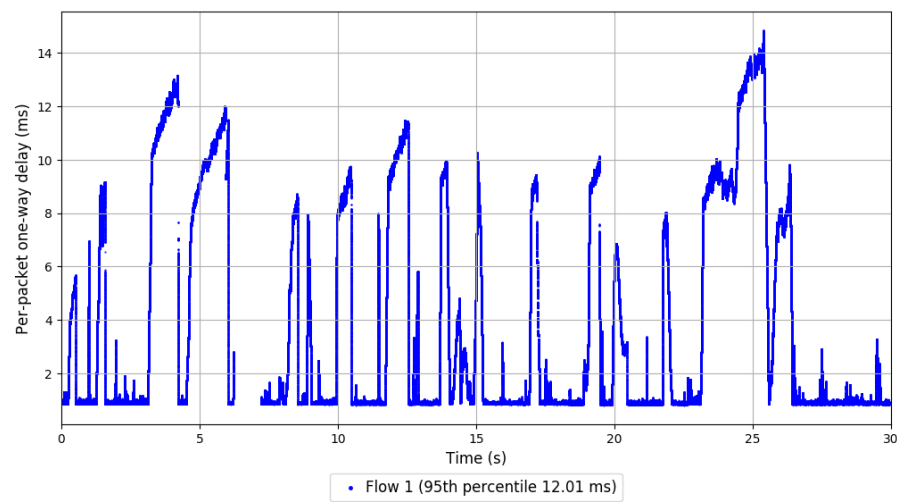
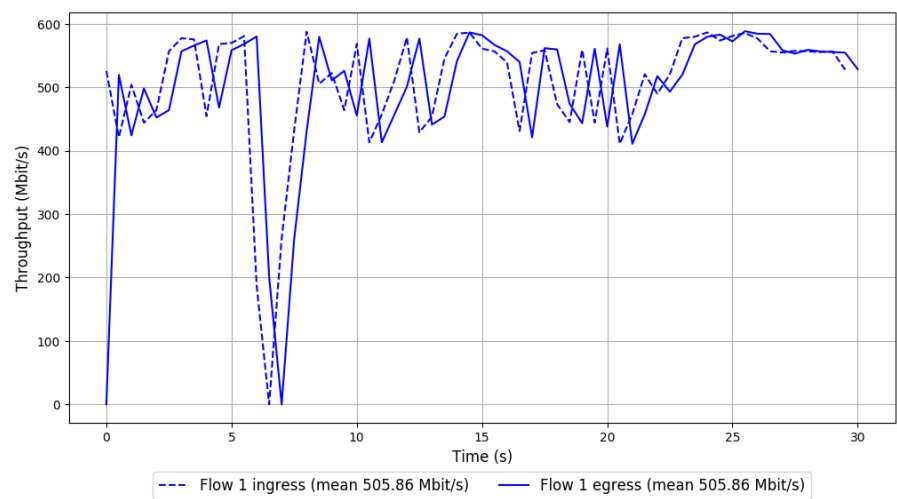


Run 2: Statistics of LEDBAT

Start at: 2019-07-12 11:08:19
End at: 2019-07-12 11:08:49
Local clock offset: 5.133 ms
Remote clock offset: -0.168 ms

Below is generated by plot.py at 2019-07-12 13:39:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 505.86 Mbit/s
95th percentile per-packet one-way delay: 12.014 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 505.86 Mbit/s
95th percentile per-packet one-way delay: 12.014 ms
Loss rate: 0.01%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-07-12 11:41:50

End at: 2019-07-12 11:42:20

Local clock offset: 4.872 ms

Remote clock offset: -0.51 ms

Below is generated by plot.py at 2019-07-12 13:40:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 491.85 Mbit/s

95th percentile per-packet one-way delay: 6.315 ms

Loss rate: 0.00%

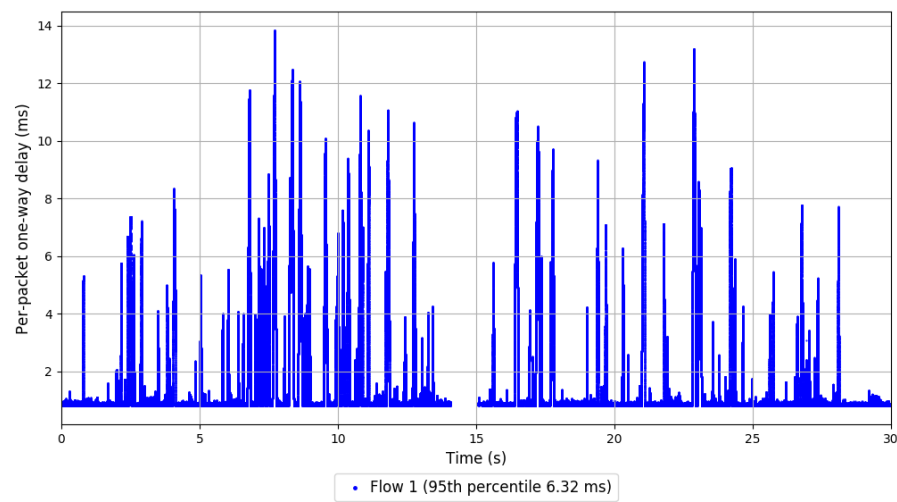
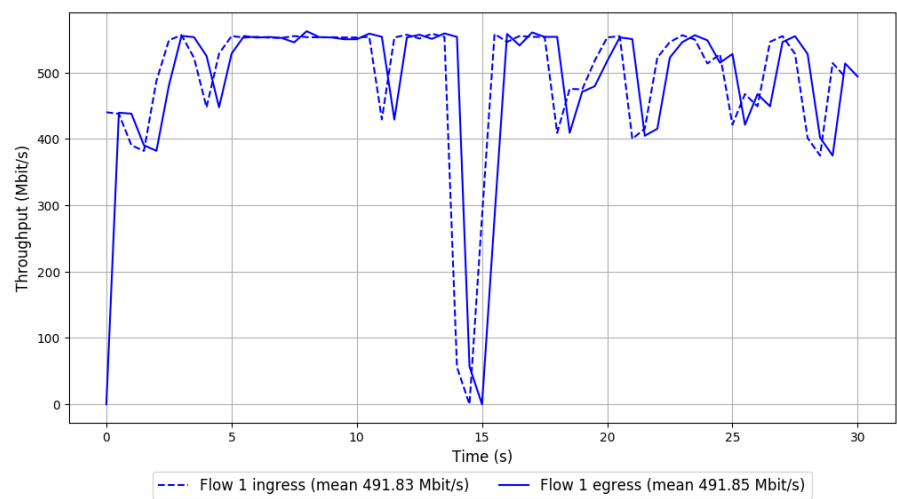
-- Flow 1:

Average throughput: 491.85 Mbit/s

95th percentile per-packet one-way delay: 6.315 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-07-12 12:15:23

End at: 2019-07-12 12:15:53

Local clock offset: 5.107 ms

Remote clock offset: 2.563 ms

Below is generated by plot.py at 2019-07-12 13:40:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 405.30 Mbit/s

95th percentile per-packet one-way delay: 3.880 ms

Loss rate: 0.01%

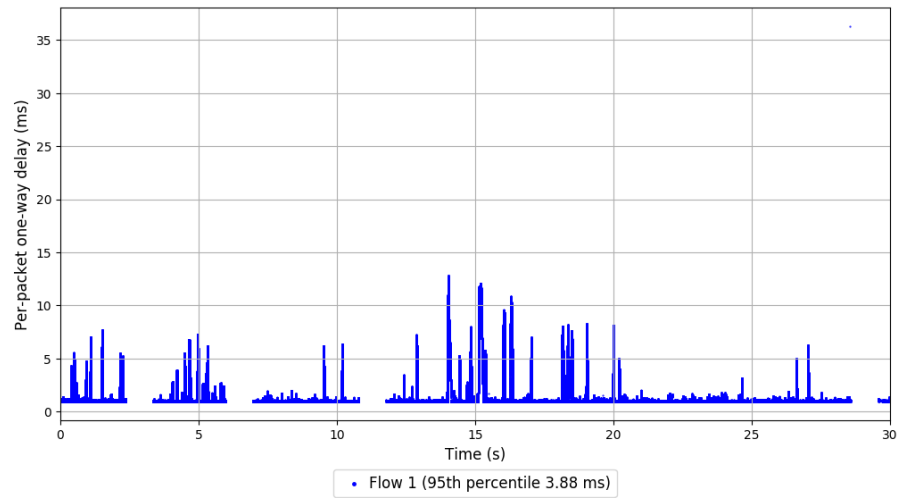
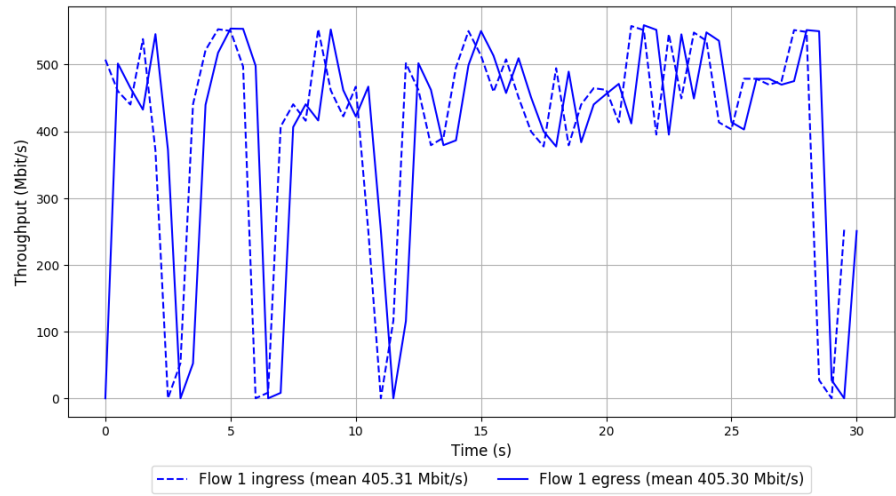
-- Flow 1:

Average throughput: 405.30 Mbit/s

95th percentile per-packet one-way delay: 3.880 ms

Loss rate: 0.01%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-07-12 12:48:58

End at: 2019-07-12 12:49:28

Local clock offset: 5.308 ms

Remote clock offset: 3.836 ms

Below is generated by plot.py at 2019-07-12 13:40:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 460.41 Mbit/s

95th percentile per-packet one-way delay: 5.883 ms

Loss rate: 0.01%

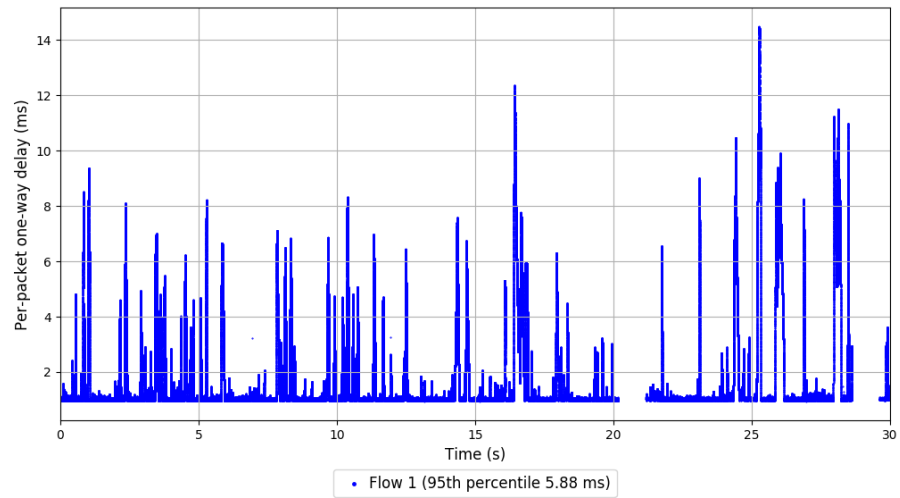
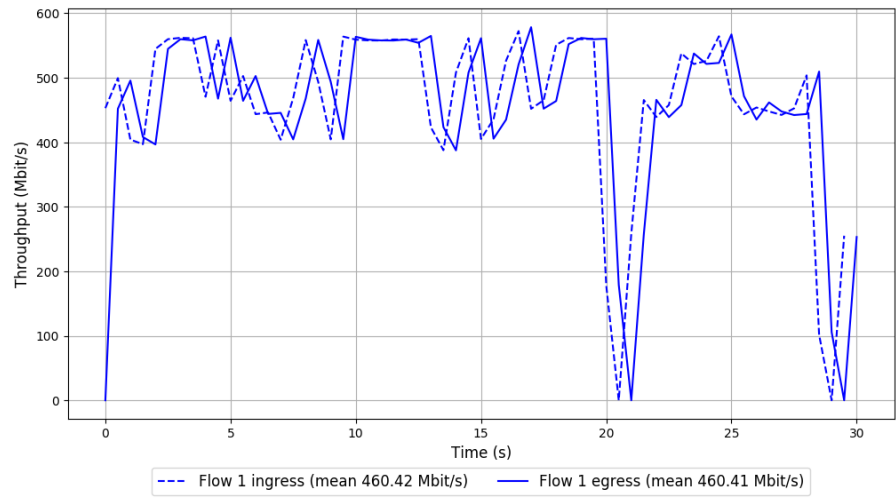
-- Flow 1:

Average throughput: 460.41 Mbit/s

95th percentile per-packet one-way delay: 5.883 ms

Loss rate: 0.01%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses_DecisionTree

Start at: 2019-07-12 10:19:54

End at: 2019-07-12 10:20:24

Local clock offset: 6.904 ms

Remote clock offset: 3.889 ms

Below is generated by plot.py at 2019-07-12 13:40:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.45 Mbit/s

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

Loss rate: 0.00%

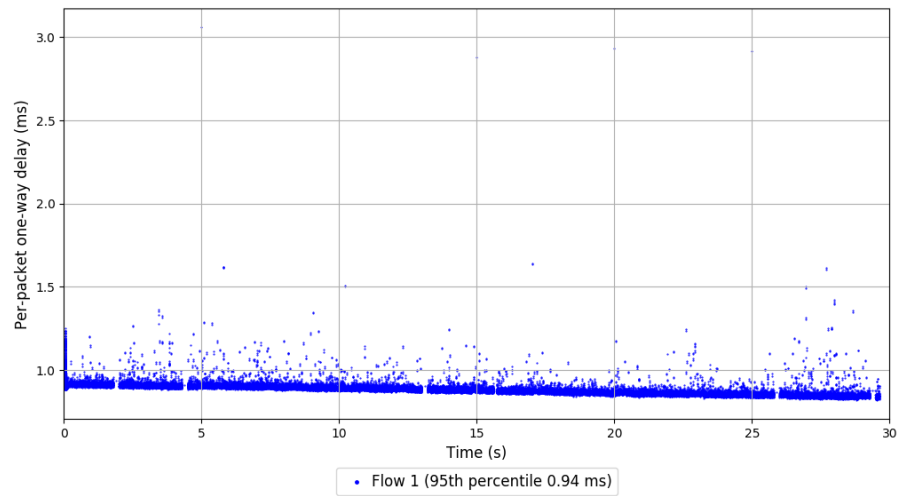
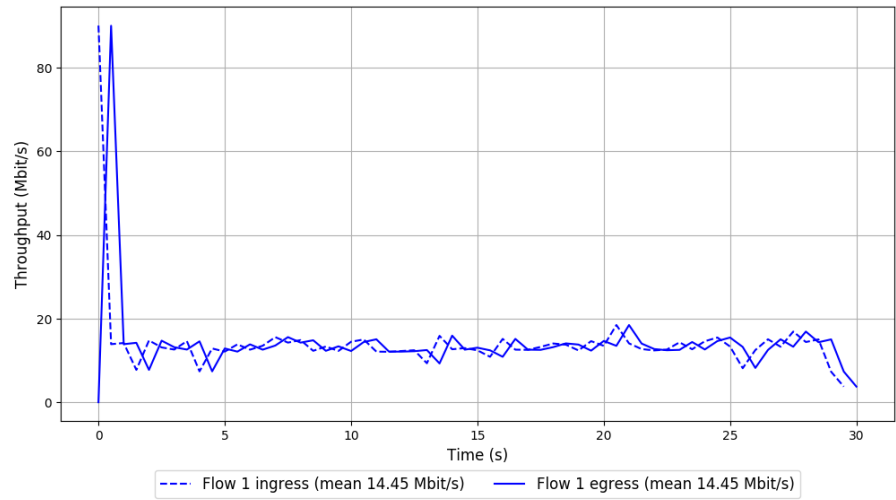
-- Flow 1:

Average throughput: 14.45 Mbit/s

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

Loss rate: 0.00%

Run 1: Report of Muses_DecisionTree — Data Link



Run 2: Statistics of Muses_DecisionTree

Start at: 2019-07-12 10:53:07

End at: 2019-07-12 10:53:37

Local clock offset: 6.049 ms

Remote clock offset: 2.843 ms

Below is generated by plot.py at 2019-07-12 13:40:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.66 Mbit/s

95th percentile per-packet one-way delay: 0.804 ms

Loss rate: 0.01%

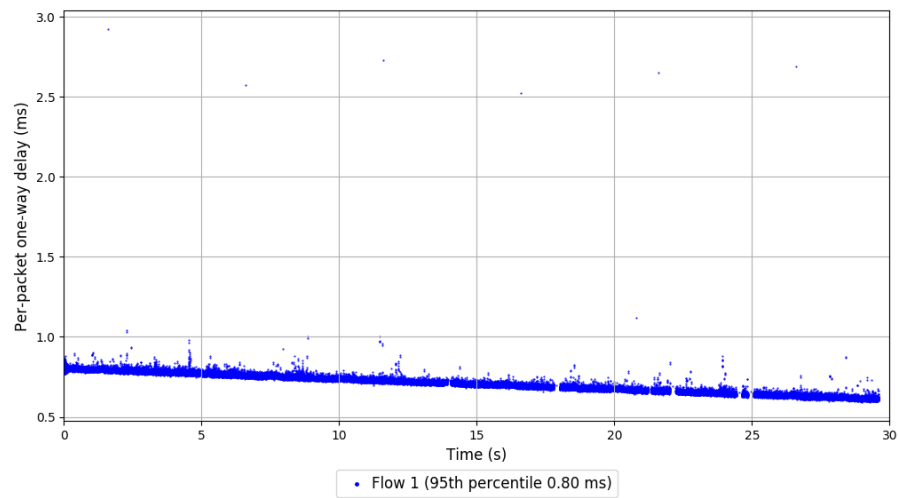
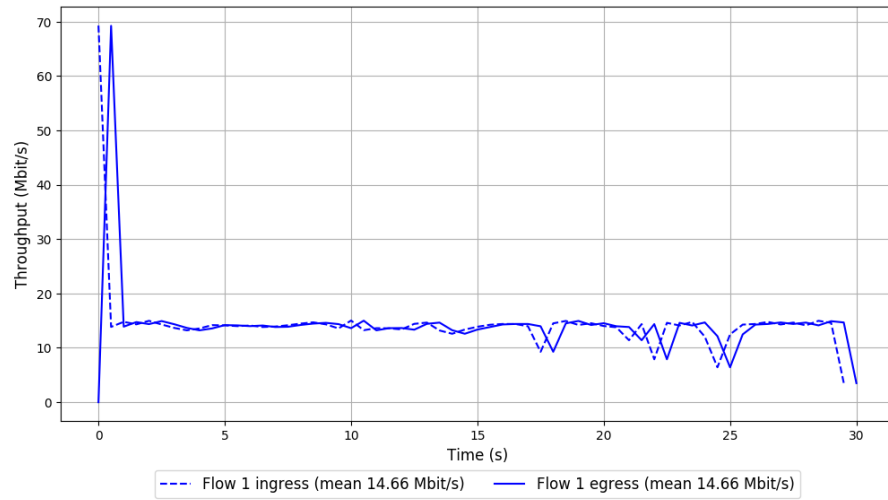
-- Flow 1:

Average throughput: 14.66 Mbit/s

95th percentile per-packet one-way delay: 0.804 ms

Loss rate: 0.01%

Run 2: Report of Muses_DecisionTree — Data Link

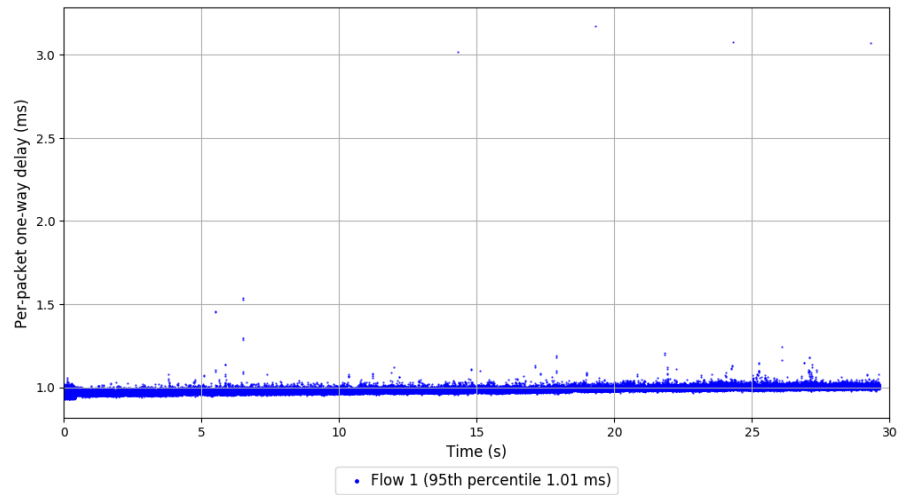
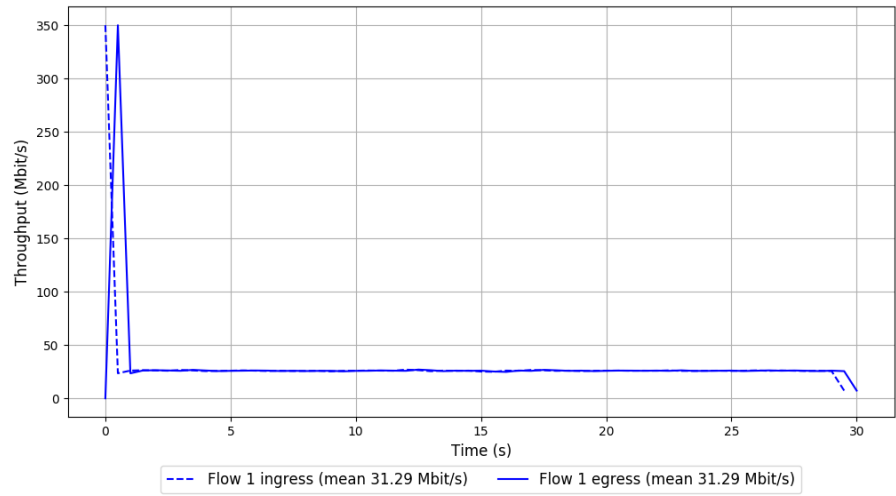


Run 3: Statistics of Muses_DecisionTree

Start at: 2019-07-12 11:26:39
End at: 2019-07-12 11:27:09
Local clock offset: 4.724 ms
Remote clock offset: -1.065 ms

Below is generated by plot.py at 2019-07-12 13:40:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 31.29 Mbit/s
95th percentile per-packet one-way delay: 1.010 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 31.29 Mbit/s
95th percentile per-packet one-way delay: 1.010 ms
Loss rate: 0.00%

Run 3: Report of Muses_DecisionTree — Data Link

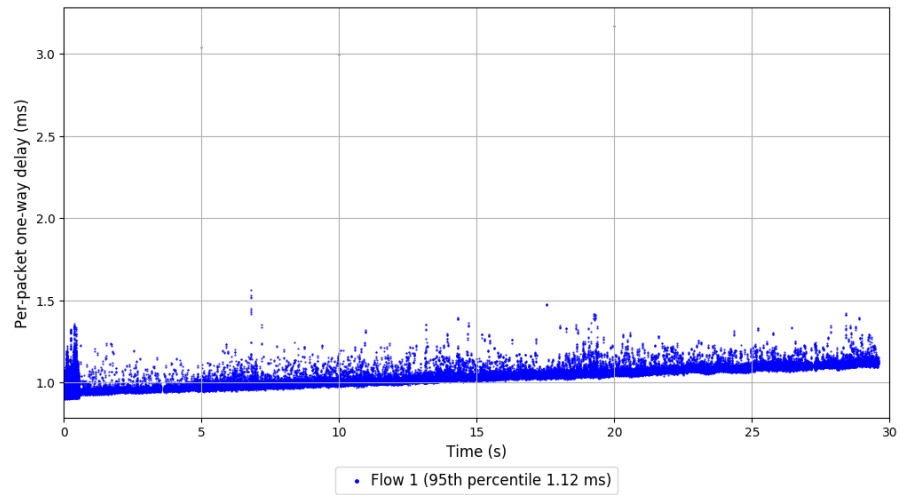
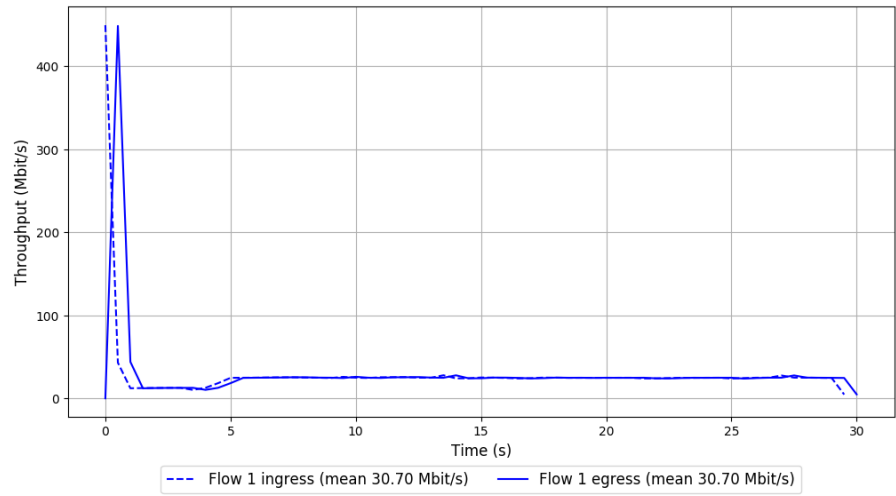


Run 4: Statistics of Muses_DecisionTree

Start at: 2019-07-12 12:00:07
End at: 2019-07-12 12:00:37
Local clock offset: 4.968 ms
Remote clock offset: -0.466 ms

Below is generated by plot.py at 2019-07-12 13:40:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 30.70 Mbit/s
95th percentile per-packet one-way delay: 1.123 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 30.70 Mbit/s
95th percentile per-packet one-way delay: 1.123 ms
Loss rate: 0.00%

Run 4: Report of Muses_DecisionTree — Data Link



Run 5: Statistics of Muses_DecisionTree

Start at: 2019-07-12 12:33:39

End at: 2019-07-12 12:34:09

Local clock offset: 5.193 ms

Remote clock offset: 3.585 ms

Below is generated by plot.py at 2019-07-12 13:40:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.64 Mbit/s

95th percentile per-packet one-way delay: 0.896 ms

Loss rate: 0.00%

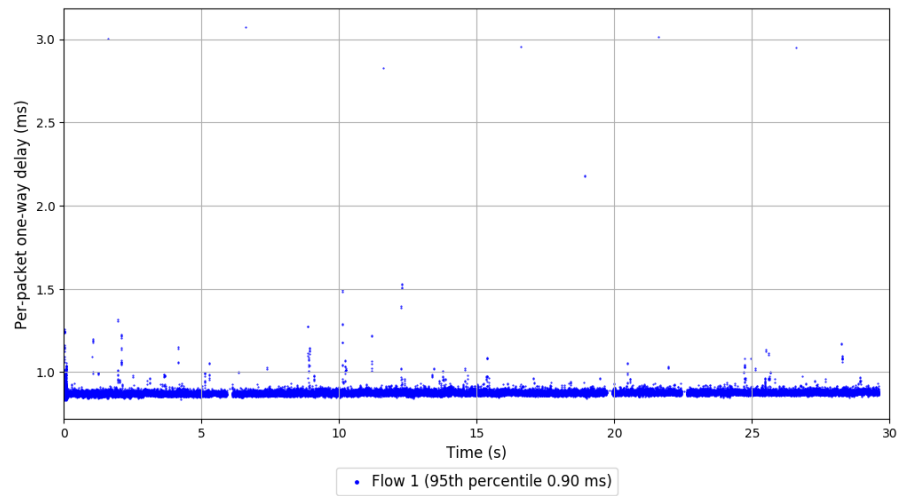
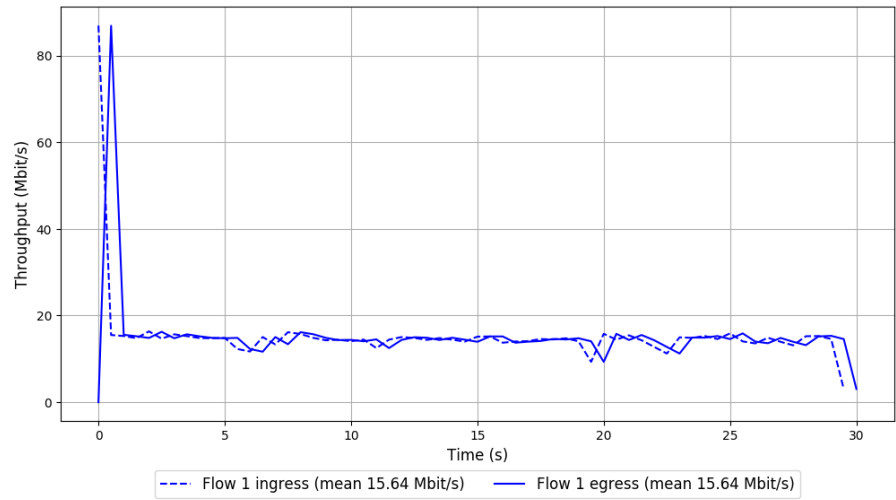
-- Flow 1:

Average throughput: 15.64 Mbit/s

95th percentile per-packet one-way delay: 0.896 ms

Loss rate: 0.00%

Run 5: Report of Muses_DecisionTree — Data Link



Run 1: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-12 10:30:44

End at: 2019-07-12 10:31:14

Local clock offset: 6.995 ms

Remote clock offset: 3.305 ms

Below is generated by plot.py at 2019-07-12 13:40:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.87 Mbit/s

95th percentile per-packet one-way delay: 1.083 ms

Loss rate: 0.00%

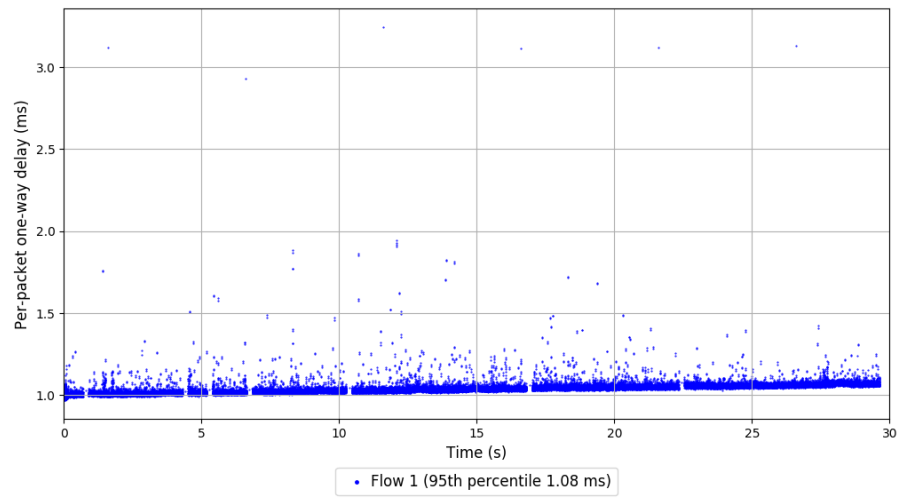
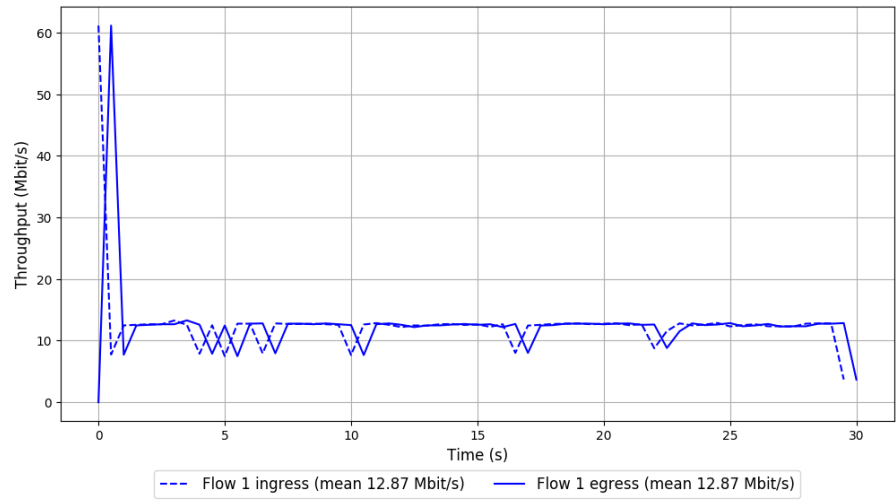
-- Flow 1:

Average throughput: 12.87 Mbit/s

95th percentile per-packet one-way delay: 1.083 ms

Loss rate: 0.00%

Run 1: Report of Muses_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-12 11:03:56

End at: 2019-07-12 11:04:26

Local clock offset: 5.489 ms

Remote clock offset: 0.337 ms

Below is generated by plot.py at 2019-07-12 13:40:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.61 Mbit/s

95th percentile per-packet one-way delay: 0.894 ms

Loss rate: 0.00%

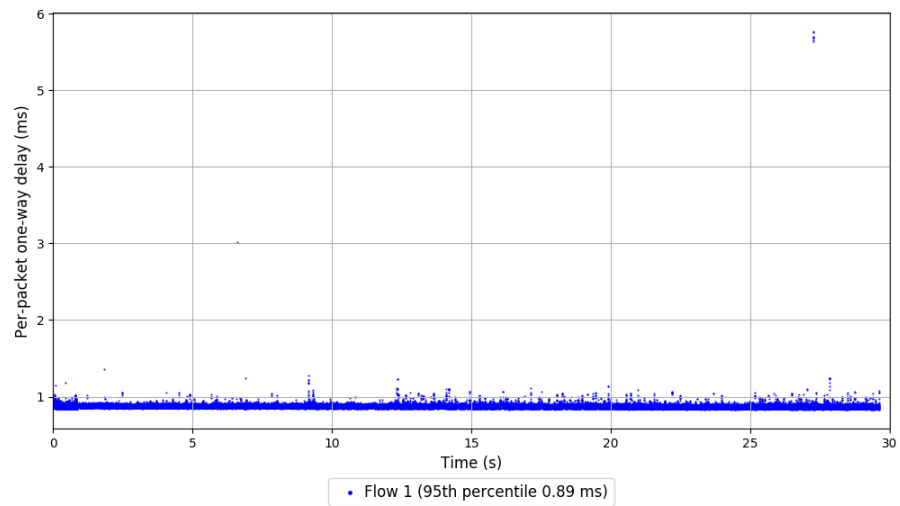
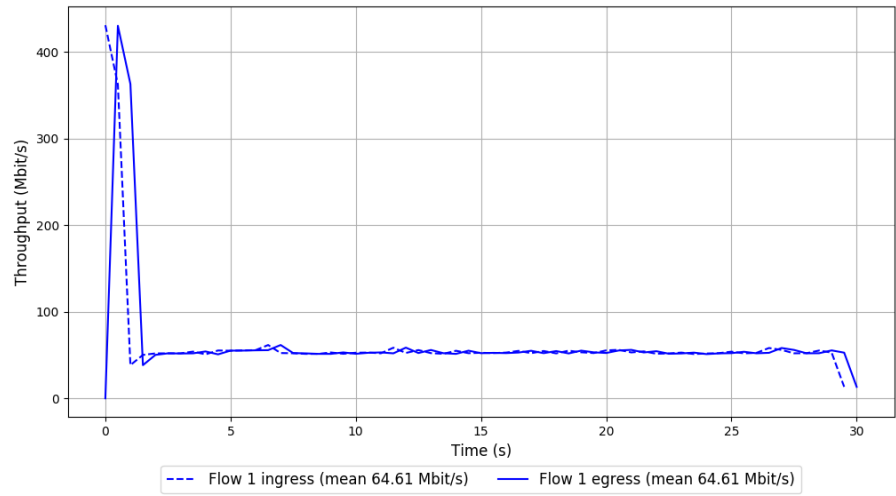
-- Flow 1:

Average throughput: 64.61 Mbit/s

95th percentile per-packet one-way delay: 0.894 ms

Loss rate: 0.00%

Run 2: Report of Muses_DecisionTreeH0 — Data Link

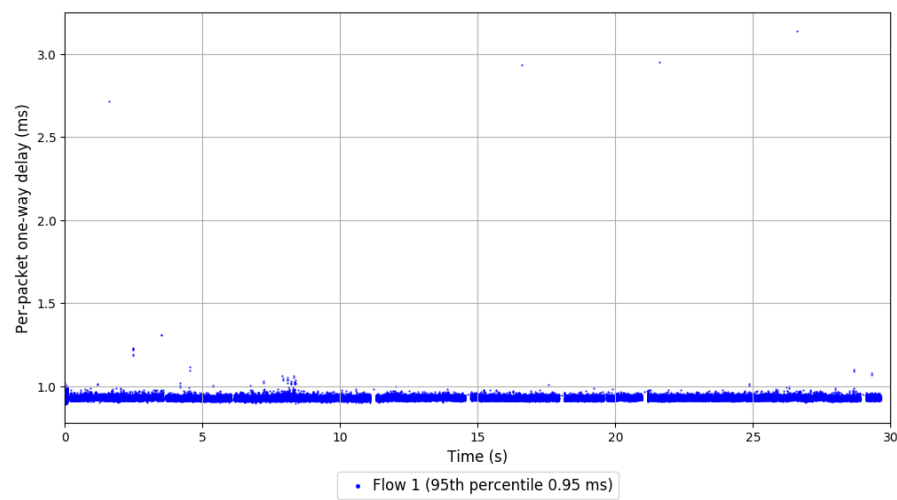
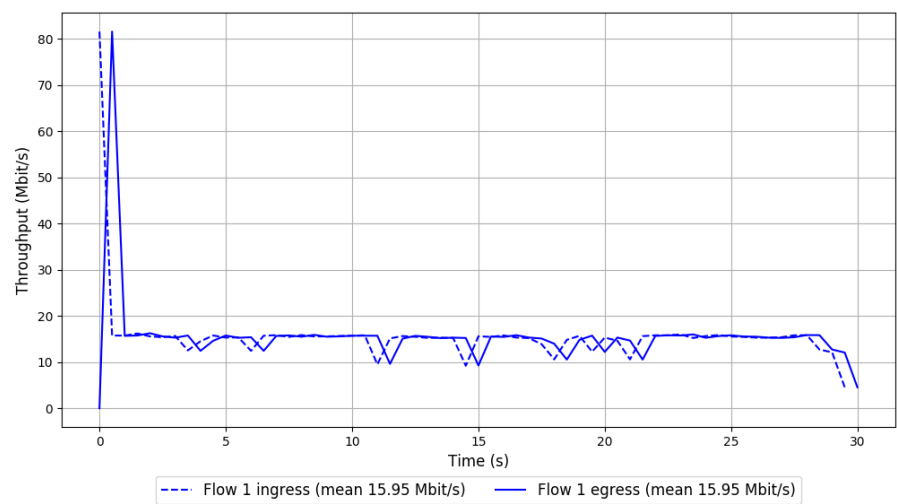


Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-12 11:37:29
End at: 2019-07-12 11:37:59
Local clock offset: 4.835 ms
Remote clock offset: -0.611 ms

Below is generated by plot.py at 2019-07-12 13:40:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 15.95 Mbit/s
95th percentile per-packet one-way delay: 0.949 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.95 Mbit/s
95th percentile per-packet one-way delay: 0.949 ms
Loss rate: 0.00%

Run 3: Report of Muses_DecisionTreeH0 — Data Link



Run 4: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-12 12:11:00

End at: 2019-07-12 12:11:30

Local clock offset: 5.107 ms

Remote clock offset: 2.17 ms

Below is generated by plot.py at 2019-07-12 13:40:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.69 Mbit/s

95th percentile per-packet one-way delay: 0.966 ms

Loss rate: 0.01%

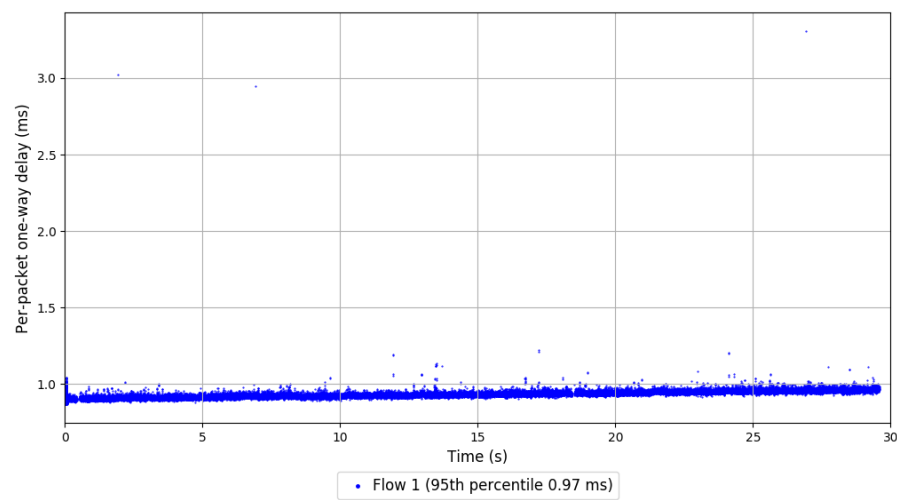
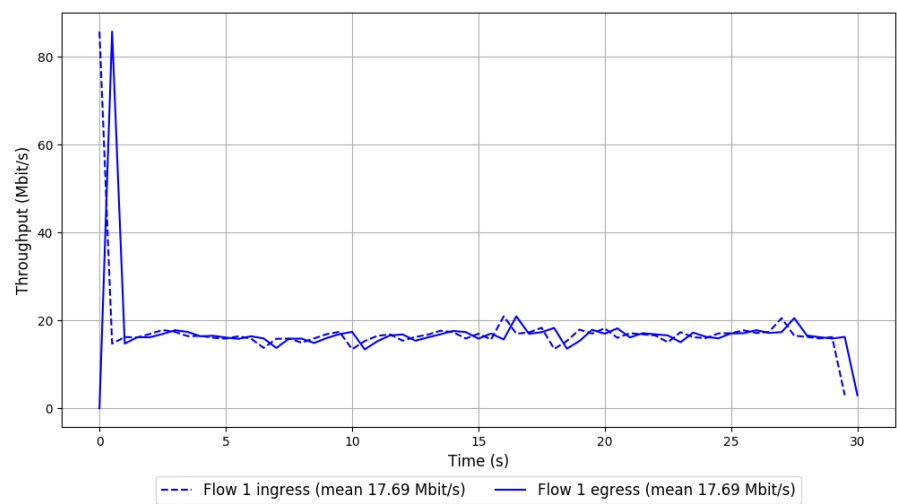
-- Flow 1:

Average throughput: 17.69 Mbit/s

95th percentile per-packet one-way delay: 0.966 ms

Loss rate: 0.01%

Run 4: Report of Muses_DecisionTreeH0 — Data Link



Run 5: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-12 12:44:35

End at: 2019-07-12 12:45:05

Local clock offset: 5.279 ms

Remote clock offset: 3.848 ms

Below is generated by plot.py at 2019-07-12 13:40:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.48 Mbit/s

95th percentile per-packet one-way delay: 0.891 ms

Loss rate: 0.00%

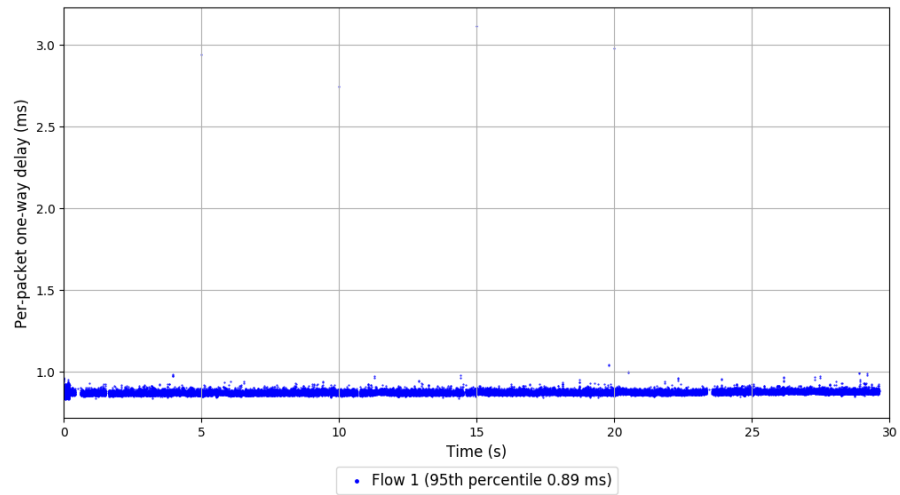
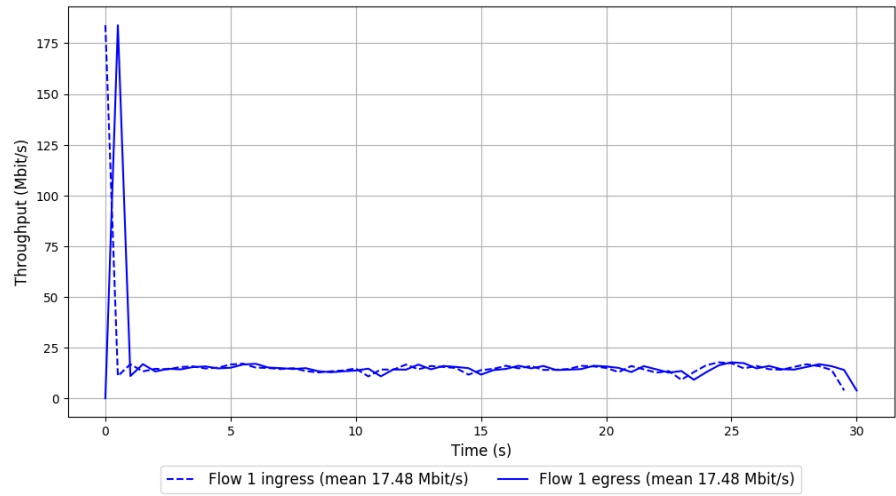
-- Flow 1:

Average throughput: 17.48 Mbit/s

95th percentile per-packet one-way delay: 0.891 ms

Loss rate: 0.00%

Run 5: Report of Muses_DecisionTreeH0 — Data Link



Run 1: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-12 10:04:33

End at: 2019-07-12 10:05:03

Local clock offset: 6.832 ms

Remote clock offset: 3.378 ms

Below is generated by plot.py at 2019-07-12 13:40:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.41 Mbit/s

95th percentile per-packet one-way delay: 1.075 ms

Loss rate: 0.01%

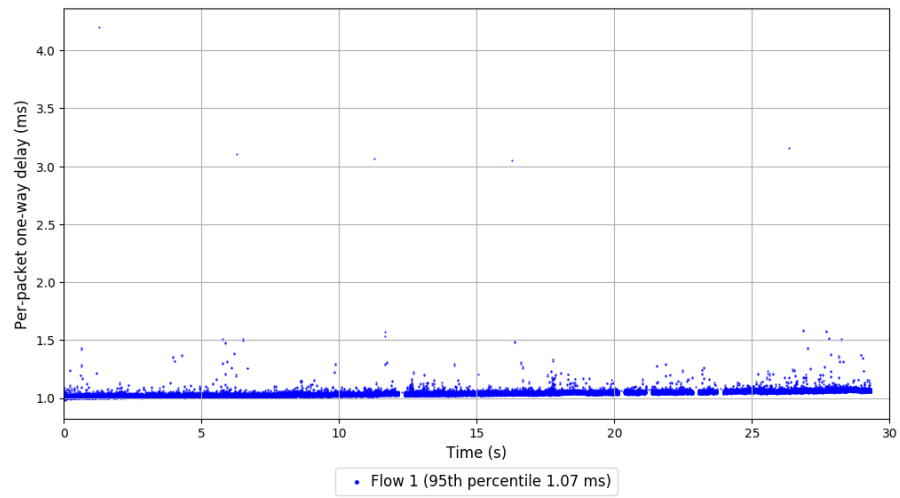
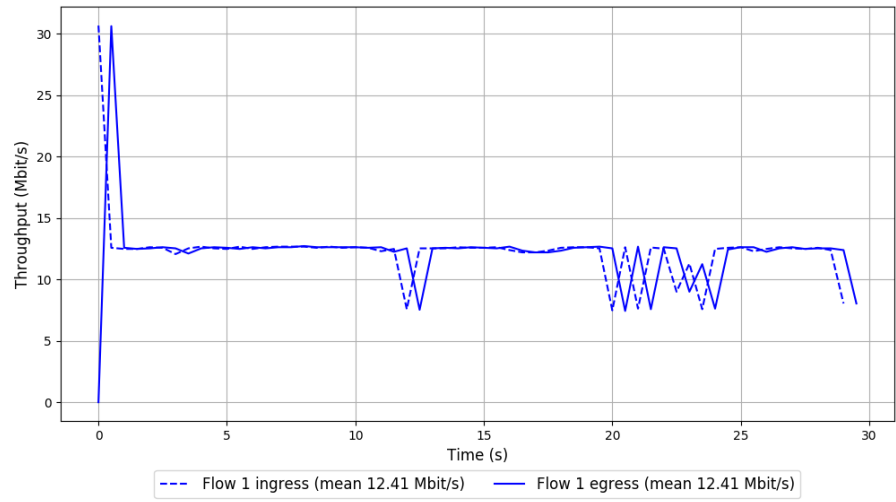
-- Flow 1:

Average throughput: 12.41 Mbit/s

95th percentile per-packet one-way delay: 1.075 ms

Loss rate: 0.01%

Run 1: Report of Muses_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-12 10:37:42

End at: 2019-07-12 10:38:12

Local clock offset: 6.264 ms

Remote clock offset: 3.329 ms

Below is generated by plot.py at 2019-07-12 13:40:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.14 Mbit/s

95th percentile per-packet one-way delay: 0.919 ms

Loss rate: 0.00%

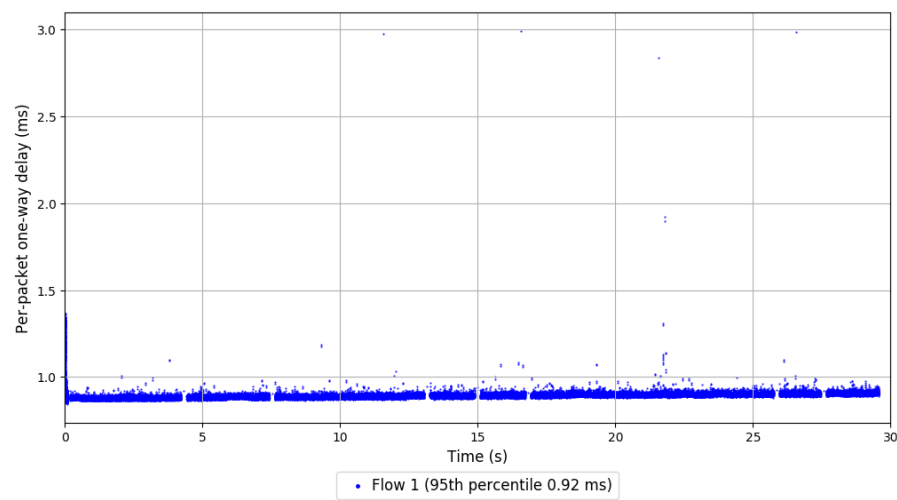
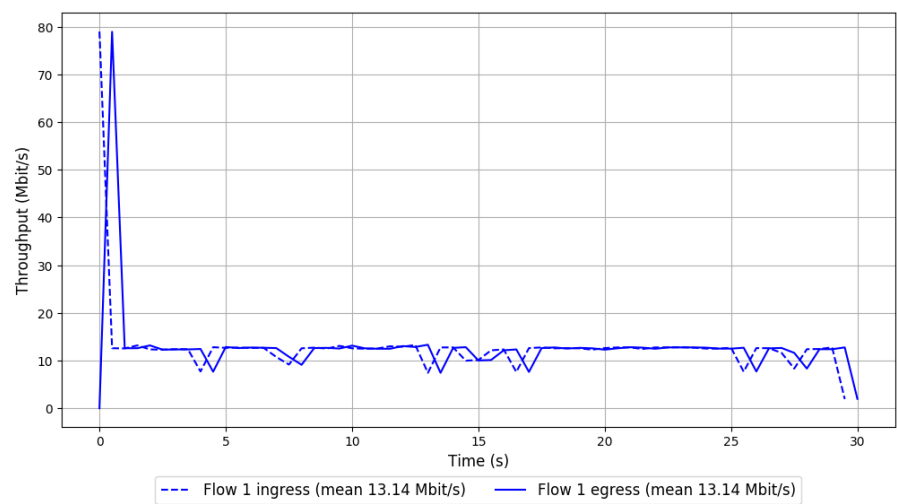
-- Flow 1:

Average throughput: 13.14 Mbit/s

95th percentile per-packet one-way delay: 0.919 ms

Loss rate: 0.00%

Run 2: Report of Muses_DecisionTreeR0 — Data Link

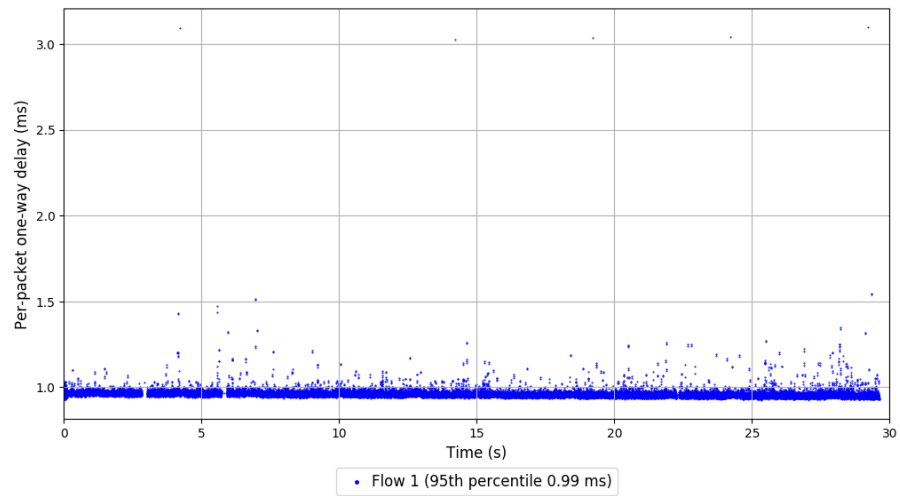
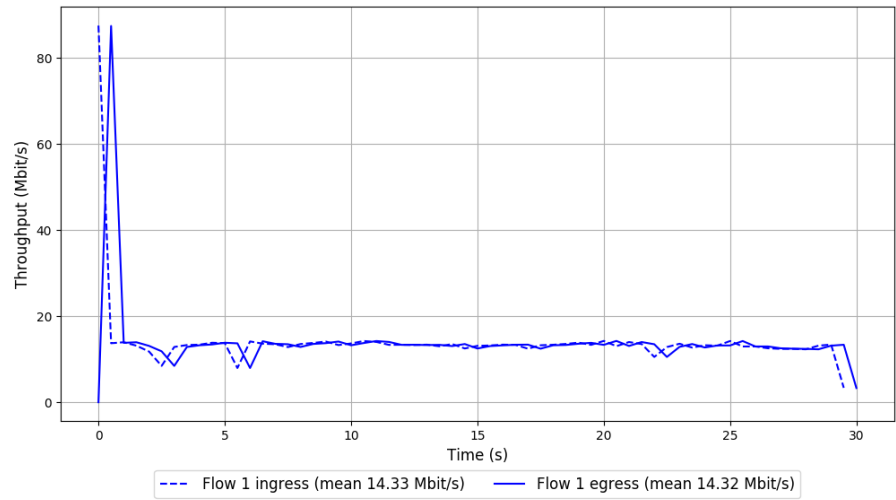


Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-12 11:11:16
End at: 2019-07-12 11:11:46
Local clock offset: 5.03 ms
Remote clock offset: -0.466 ms

Below is generated by plot.py at 2019-07-12 13:40:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 14.32 Mbit/s
95th percentile per-packet one-way delay: 0.986 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 14.32 Mbit/s
95th percentile per-packet one-way delay: 0.986 ms
Loss rate: 0.01%

Run 3: Report of Muses_DecisionTreeR0 — Data Link



Run 4: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-12 11:44:44

End at: 2019-07-12 11:45:14

Local clock offset: 4.937 ms

Remote clock offset: -0.5 ms

Below is generated by plot.py at 2019-07-12 13:40:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.62 Mbit/s

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

Loss rate: 0.01%

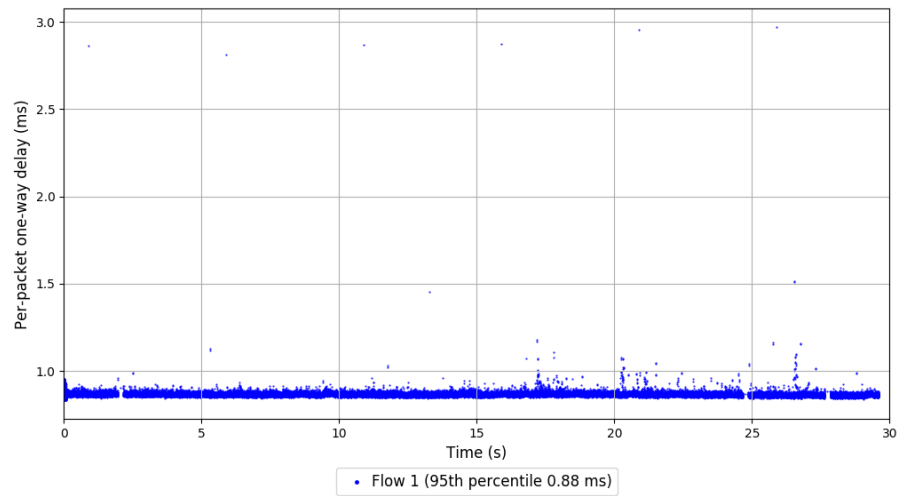
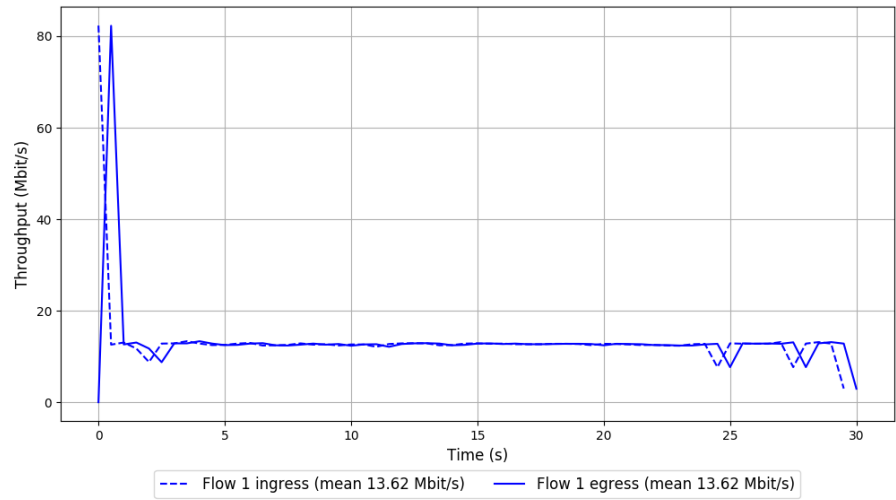
-- Flow 1:

Average throughput: 13.62 Mbit/s

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

Loss rate: 0.01%

Run 4: Report of Muses_DecisionTreeR0 — Data Link



Run 5: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-12 12:18:14

End at: 2019-07-12 12:18:44

Local clock offset: 5.106 ms

Remote clock offset: 2.791 ms

Below is generated by plot.py at 2019-07-12 13:40:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.49 Mbit/s

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

Loss rate: 0.01%

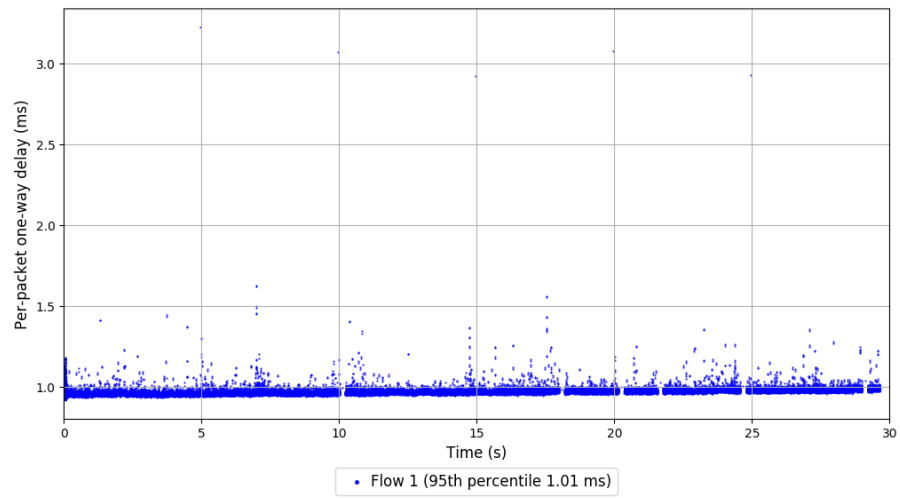
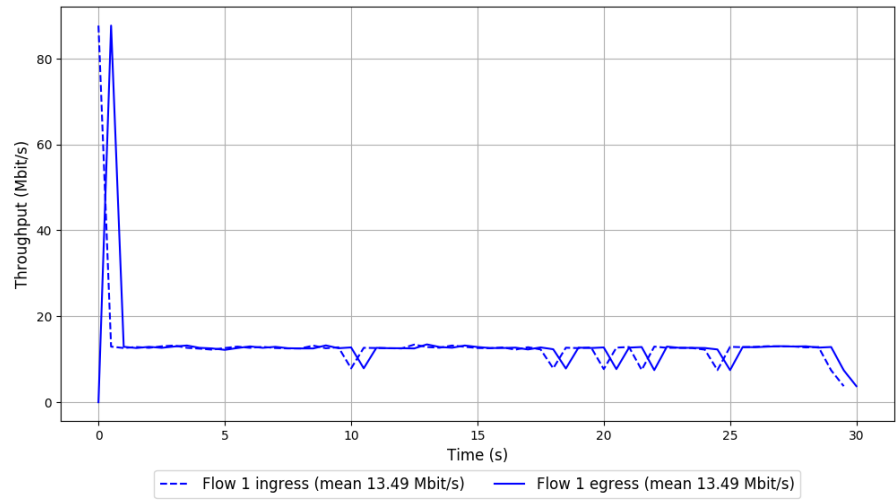
-- Flow 1:

Average throughput: 13.49 Mbit/s

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

Loss rate: 0.01%

Run 5: Report of Muses_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-07-12 10:21:08

End at: 2019-07-12 10:21:38

Local clock offset: 6.931 ms

Remote clock offset: 3.77 ms

Below is generated by plot.py at 2019-07-12 13:45:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 722.89 Mbit/s

95th percentile per-packet one-way delay: 1.356 ms

Loss rate: 0.01%

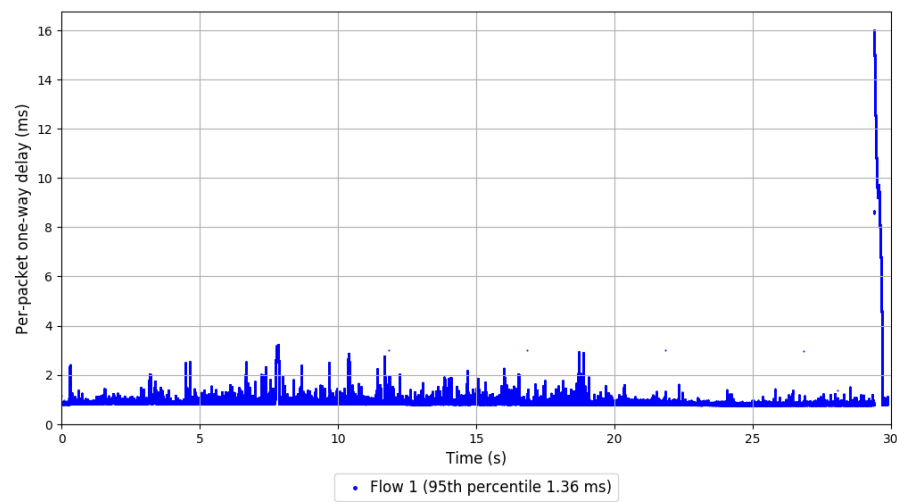
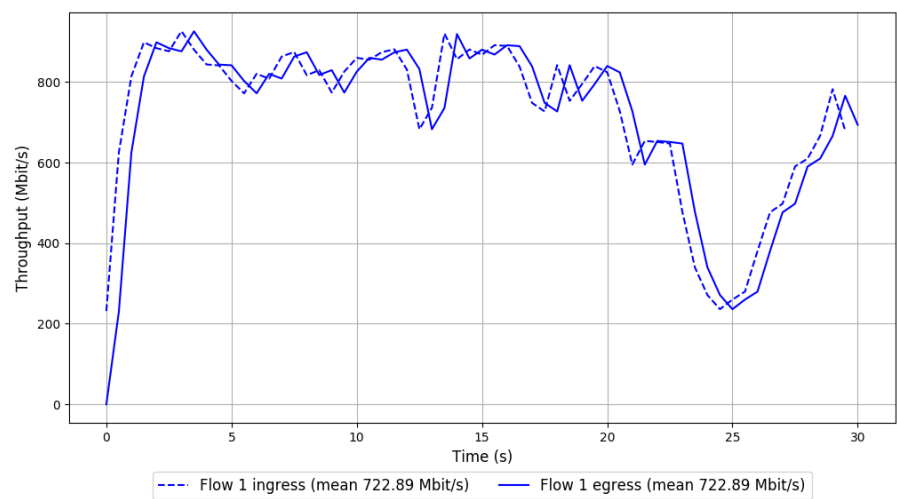
-- Flow 1:

Average throughput: 722.89 Mbit/s

95th percentile per-packet one-way delay: 1.356 ms

Loss rate: 0.01%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-07-12 10:54:21

End at: 2019-07-12 10:54:51

Local clock offset: 6.08 ms

Remote clock offset: 2.364 ms

Below is generated by plot.py at 2019-07-12 13:46:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 750.82 Mbit/s

95th percentile per-packet one-way delay: 1.708 ms

Loss rate: 0.07%

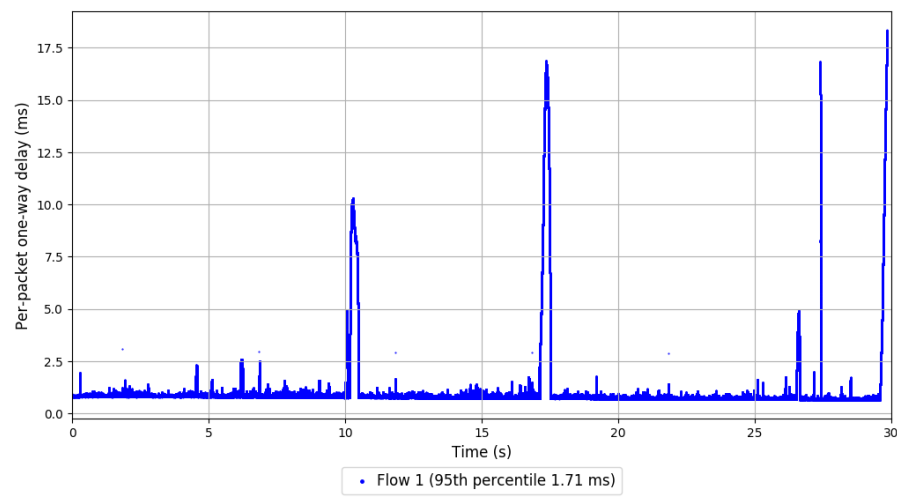
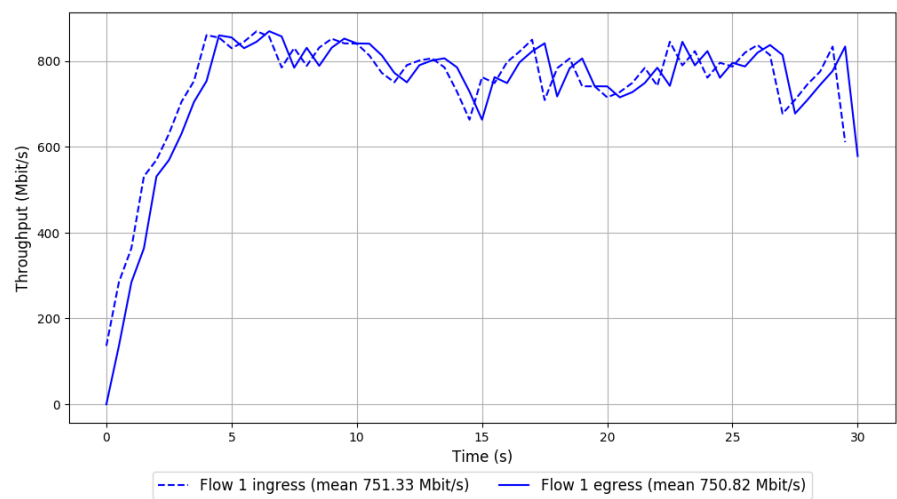
-- Flow 1:

Average throughput: 750.82 Mbit/s

95th percentile per-packet one-way delay: 1.708 ms

Loss rate: 0.07%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-07-12 11:27:54

End at: 2019-07-12 11:28:24

Local clock offset: 4.704 ms

Remote clock offset: -0.895 ms

Below is generated by plot.py at 2019-07-12 13:46:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 730.88 Mbit/s

95th percentile per-packet one-way delay: 1.391 ms

Loss rate: 0.10%

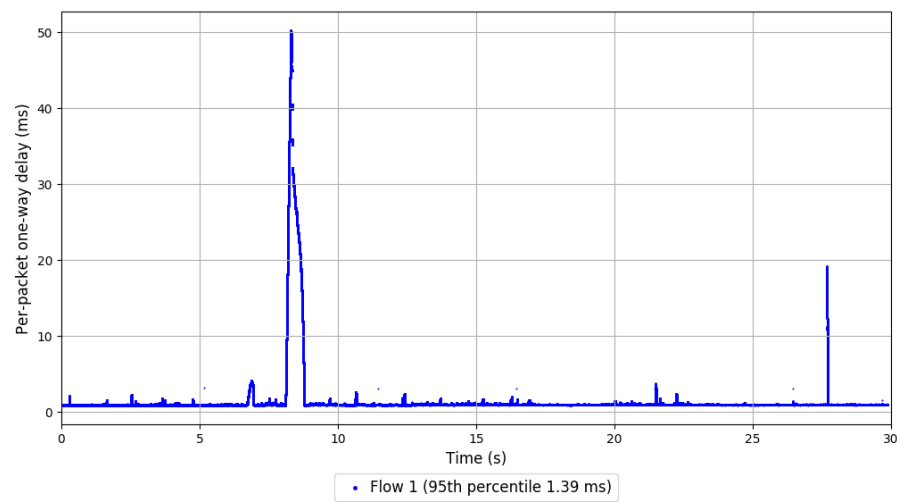
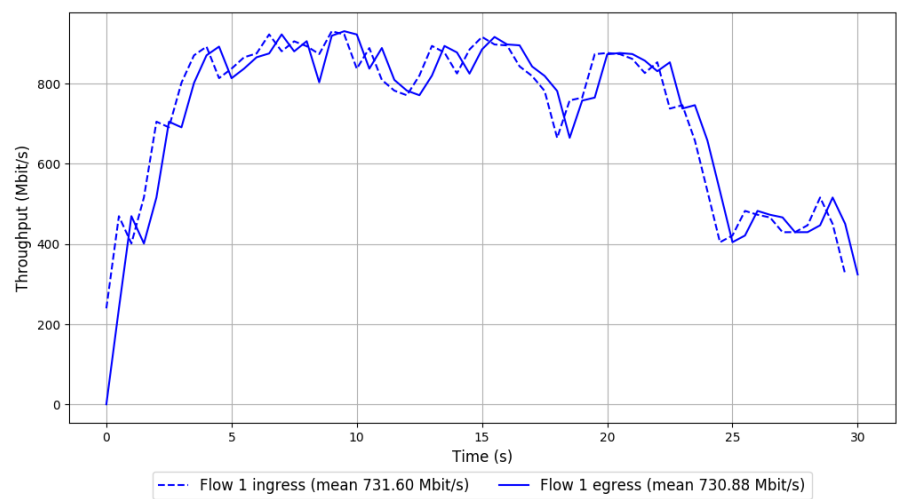
-- Flow 1:

Average throughput: 730.88 Mbit/s

95th percentile per-packet one-way delay: 1.391 ms

Loss rate: 0.10%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-07-12 12:01:21

End at: 2019-07-12 12:01:51

Local clock offset: 4.982 ms

Remote clock offset: 0.042 ms

Below is generated by plot.py at 2019-07-12 13:48:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 780.26 Mbit/s

95th percentile per-packet one-way delay: 16.838 ms

Loss rate: 0.14%

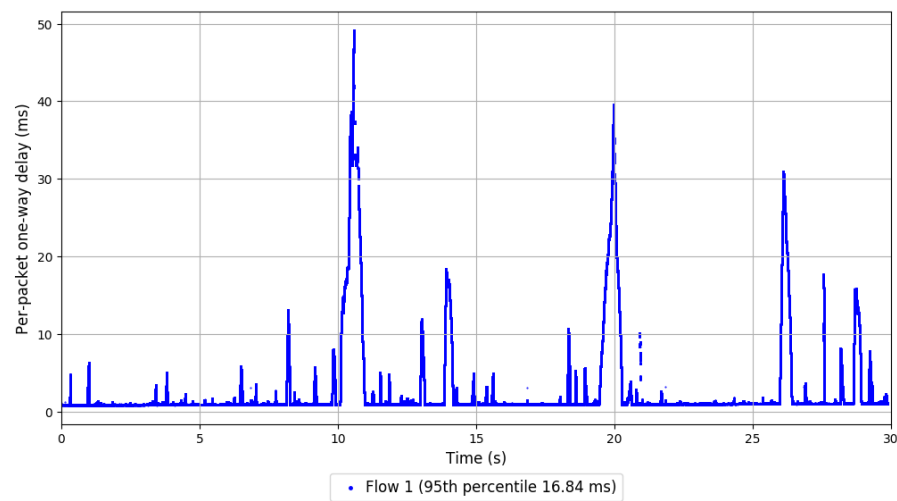
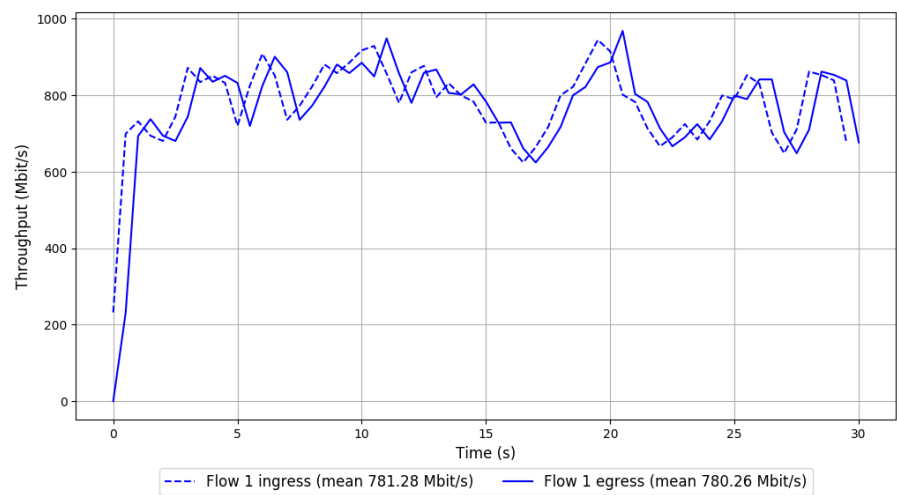
-- Flow 1:

Average throughput: 780.26 Mbit/s

95th percentile per-packet one-way delay: 16.838 ms

Loss rate: 0.14%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-07-12 12:34:54

End at: 2019-07-12 12:35:24

Local clock offset: 5.211 ms

Remote clock offset: 3.615 ms

Below is generated by plot.py at 2019-07-12 13:49:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 783.35 Mbit/s

95th percentile per-packet one-way delay: 1.045 ms

Loss rate: 0.00%

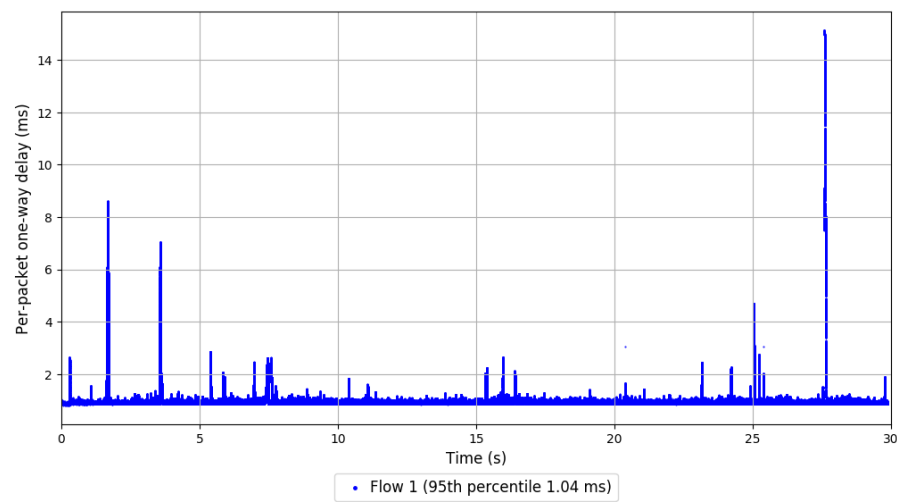
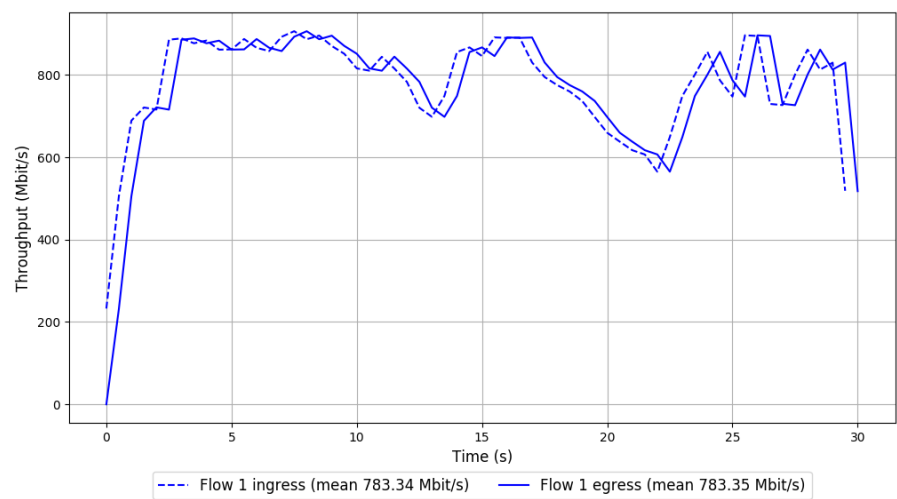
-- Flow 1:

Average throughput: 783.35 Mbit/s

95th percentile per-packet one-way delay: 1.045 ms

Loss rate: 0.00%

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2019-07-12 10:31:58

End at: 2019-07-12 10:32:28

Local clock offset: 6.819 ms

Remote clock offset: 3.273 ms

Below is generated by plot.py at 2019-07-12 13:49:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.86 Mbit/s

95th percentile per-packet one-way delay: 1.081 ms

Loss rate: 0.01%

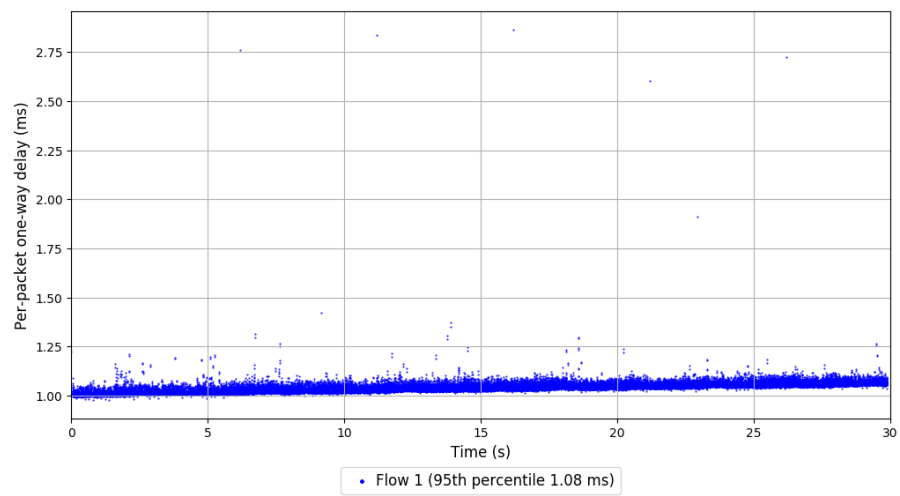
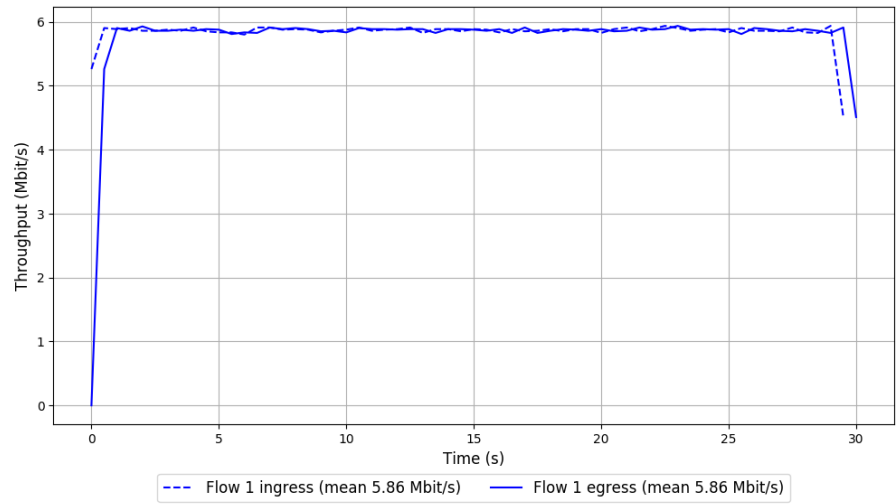
-- Flow 1:

Average throughput: 5.86 Mbit/s

95th percentile per-packet one-way delay: 1.081 ms

Loss rate: 0.01%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-07-12 11:05:11

End at: 2019-07-12 11:05:41

Local clock offset: 5.375 ms

Remote clock offset: 0.171 ms

Below is generated by plot.py at 2019-07-12 13:49:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 301.08 Mbit/s

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

Loss rate: 0.01%

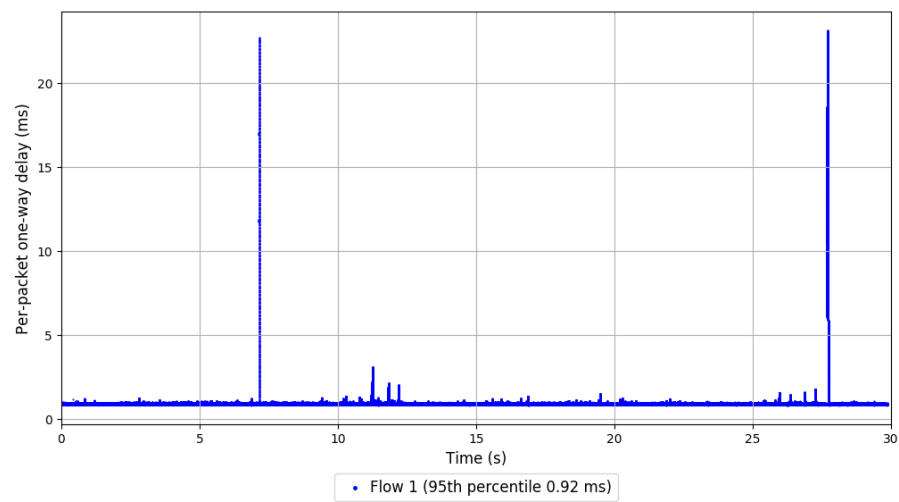
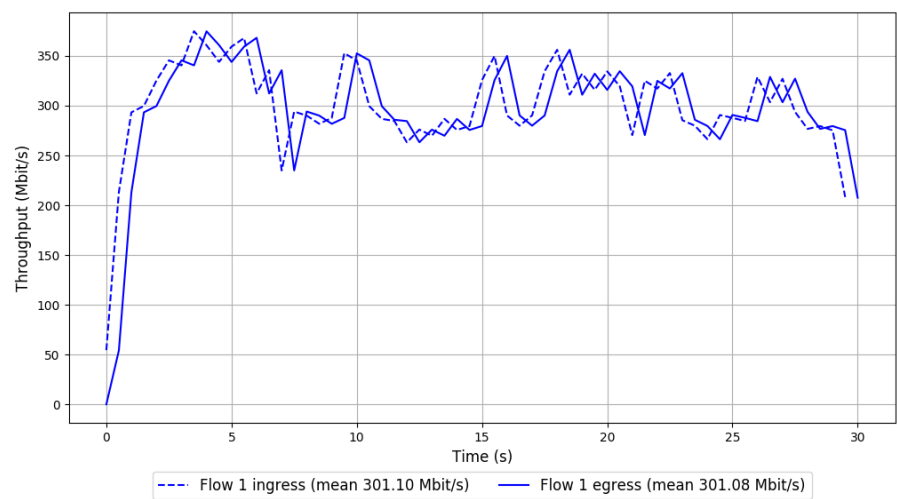
-- Flow 1:

Average throughput: 301.08 Mbit/s

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

Loss rate: 0.01%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-07-12 11:38:43

End at: 2019-07-12 11:39:13

Local clock offset: 4.835 ms

Remote clock offset: -0.525 ms

Below is generated by plot.py at 2019-07-12 13:49:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 306.70 Mbit/s

95th percentile per-packet one-way delay: 0.901 ms

Loss rate: 0.00%

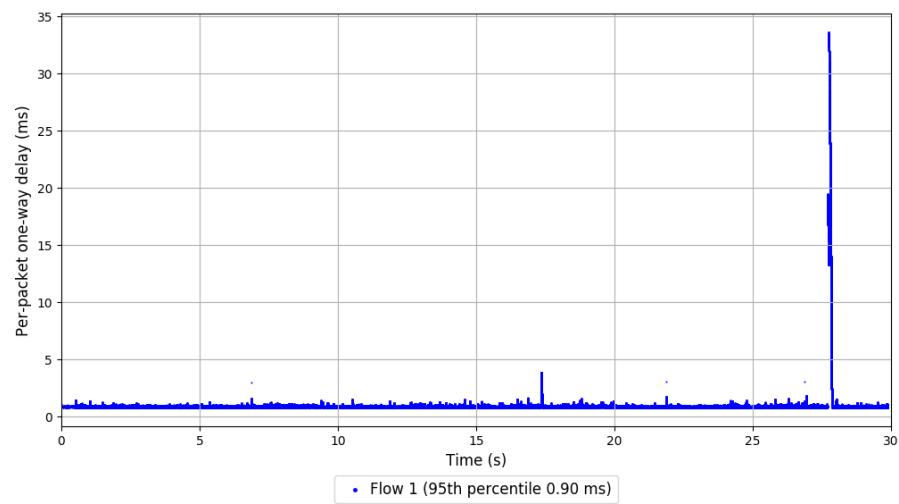
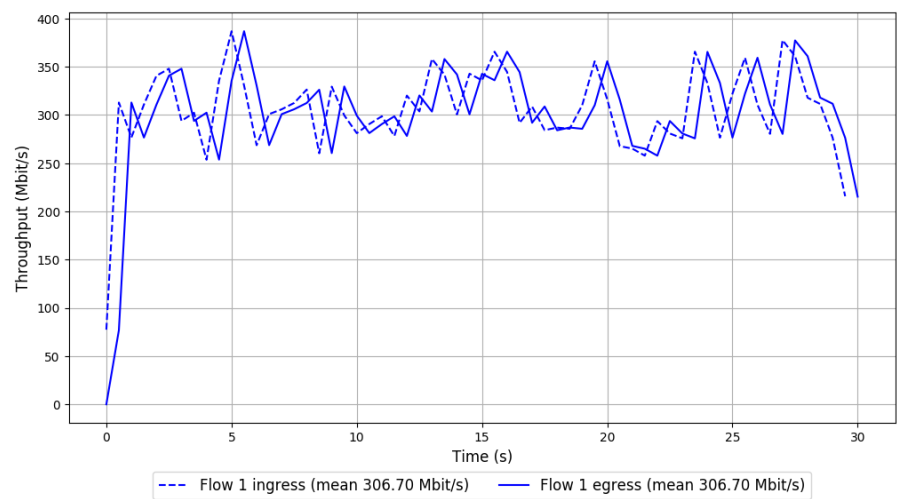
-- Flow 1:

Average throughput: 306.70 Mbit/s

95th percentile per-packet one-way delay: 0.901 ms

Loss rate: 0.00%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-07-12 12:12:14

End at: 2019-07-12 12:12:44

Local clock offset: 5.091 ms

Remote clock offset: 2.233 ms

Below is generated by plot.py at 2019-07-12 13:49:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 298.98 Mbit/s

95th percentile per-packet one-way delay: 1.047 ms

Loss rate: 0.01%

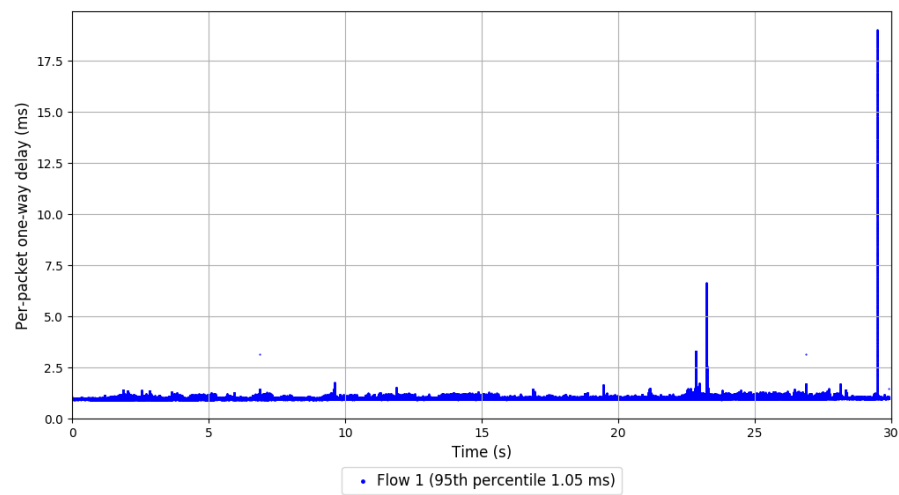
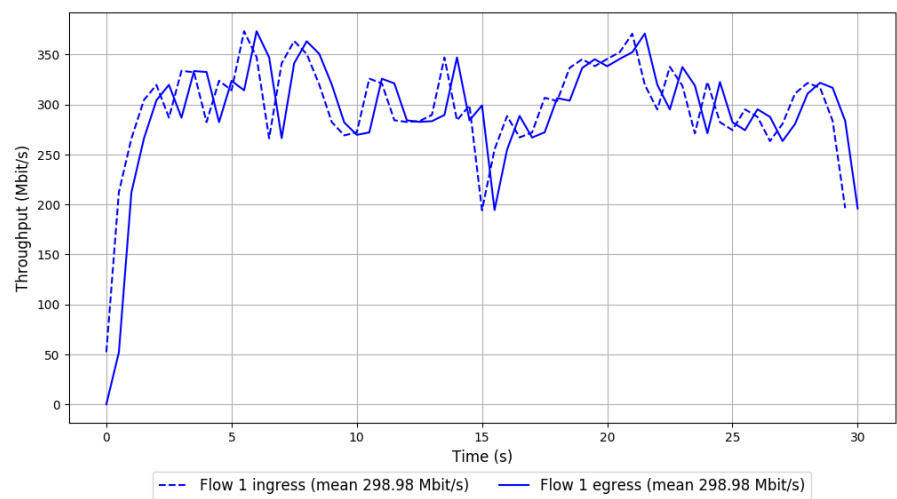
-- Flow 1:

Average throughput: 298.98 Mbit/s

95th percentile per-packet one-way delay: 1.047 ms

Loss rate: 0.01%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-07-12 12:45:50

End at: 2019-07-12 12:46:20

Local clock offset: 5.266 ms

Remote clock offset: 3.82 ms

Below is generated by plot.py at 2019-07-12 13:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 301.33 Mbit/s

95th percentile per-packet one-way delay: 1.142 ms

Loss rate: 0.01%

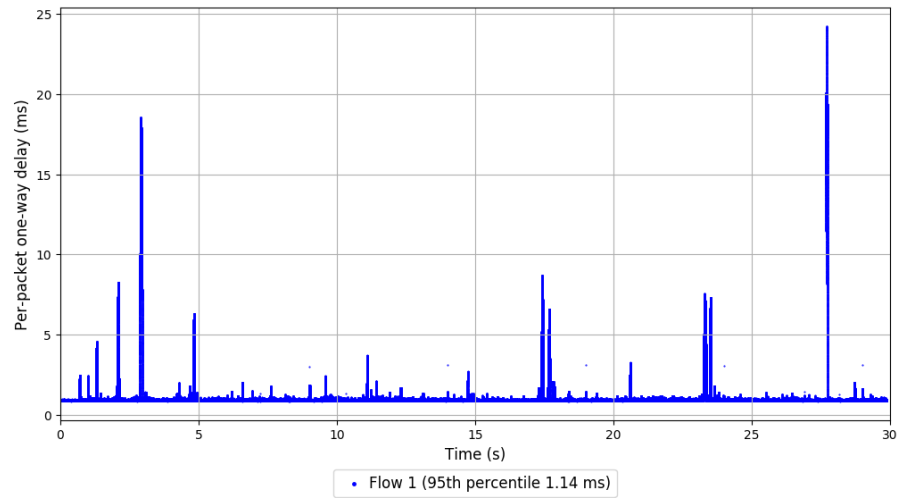
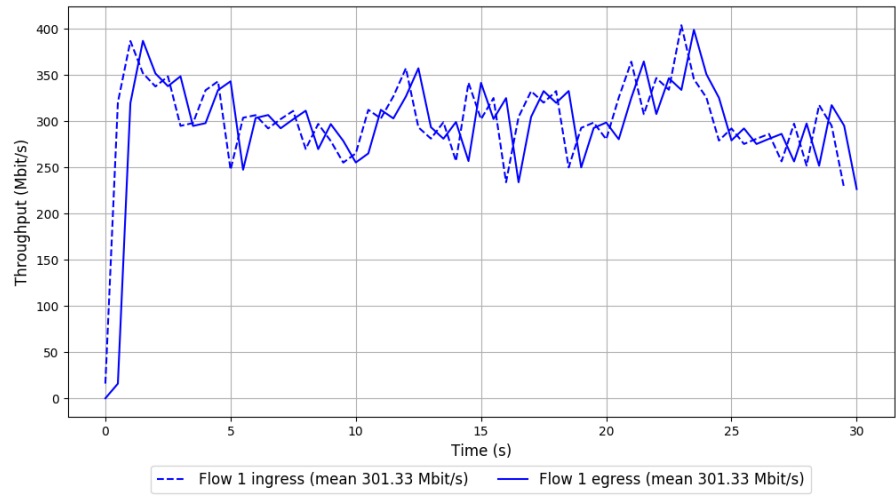
-- Flow 1:

Average throughput: 301.33 Mbit/s

95th percentile per-packet one-way delay: 1.142 ms

Loss rate: 0.01%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-07-12 10:25:20

End at: 2019-07-12 10:25:50

Local clock offset: 7.102 ms

Remote clock offset: 3.535 ms

Below is generated by plot.py at 2019-07-12 13:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.26 Mbit/s

95th percentile per-packet one-way delay: 0.834 ms

Loss rate: 0.01%

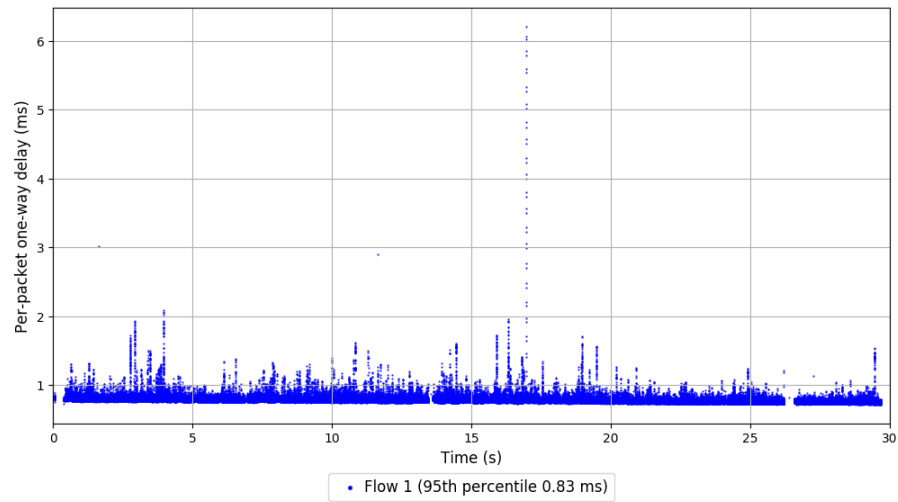
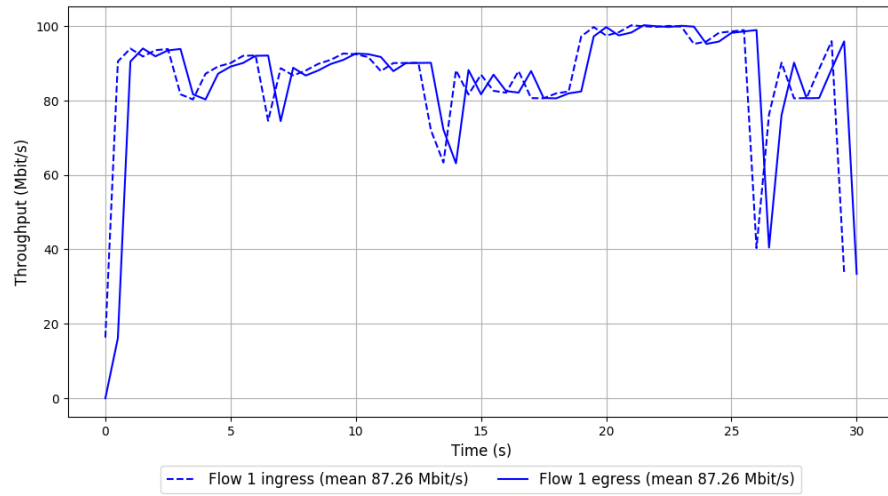
-- Flow 1:

Average throughput: 87.26 Mbit/s

95th percentile per-packet one-way delay: 0.834 ms

Loss rate: 0.01%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-07-12 10:58:34

End at: 2019-07-12 10:59:04

Local clock offset: 6.128 ms

Remote clock offset: 1.24 ms

Below is generated by plot.py at 2019-07-12 13:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.24 Mbit/s

95th percentile per-packet one-way delay: 0.844 ms

Loss rate: 0.01%

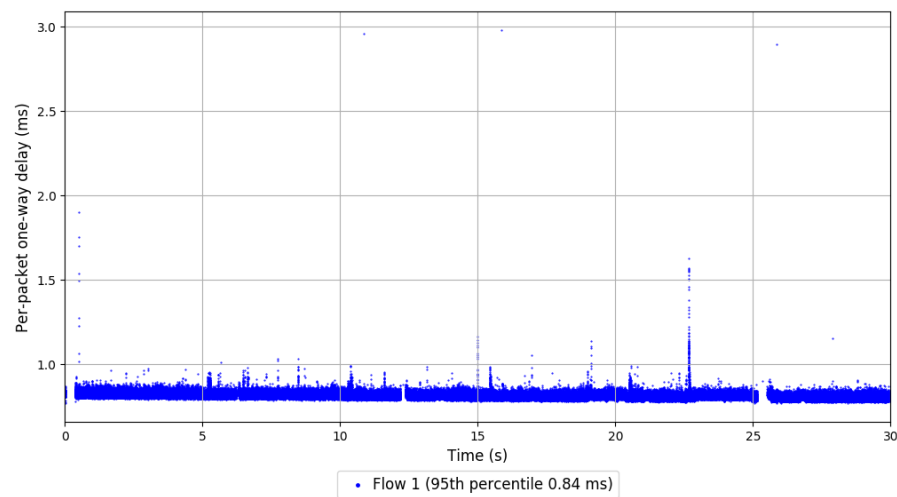
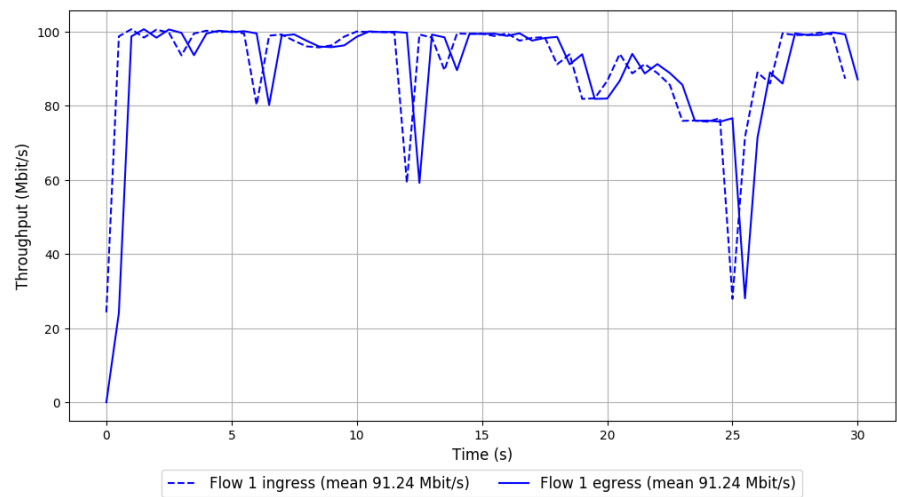
-- Flow 1:

Average throughput: 91.24 Mbit/s

95th percentile per-packet one-way delay: 0.844 ms

Loss rate: 0.01%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-07-12 11:32:06

End at: 2019-07-12 11:32:36

Local clock offset: 4.762 ms

Remote clock offset: -0.723 ms

Below is generated by plot.py at 2019-07-12 13:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.23 Mbit/s

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

Loss rate: 0.01%

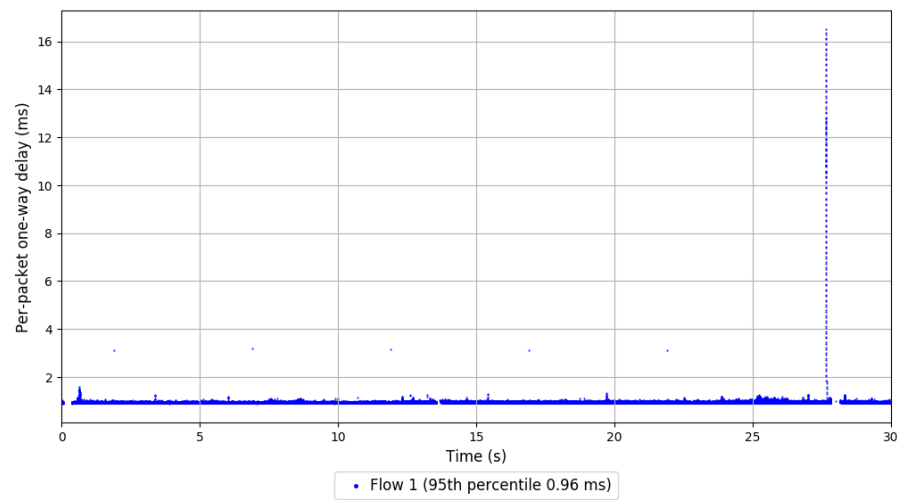
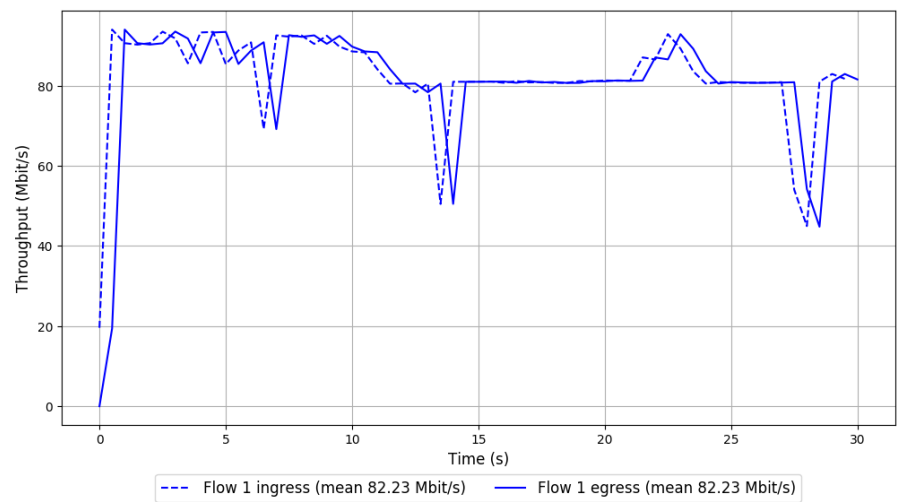
-- Flow 1:

Average throughput: 82.23 Mbit/s

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

Loss rate: 0.01%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-07-12 12:05:35

End at: 2019-07-12 12:06:05

Local clock offset: 5.056 ms

Remote clock offset: 1.201 ms

Below is generated by plot.py at 2019-07-12 13:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.68 Mbit/s

95th percentile per-packet one-way delay: 1.022 ms

Loss rate: 0.01%

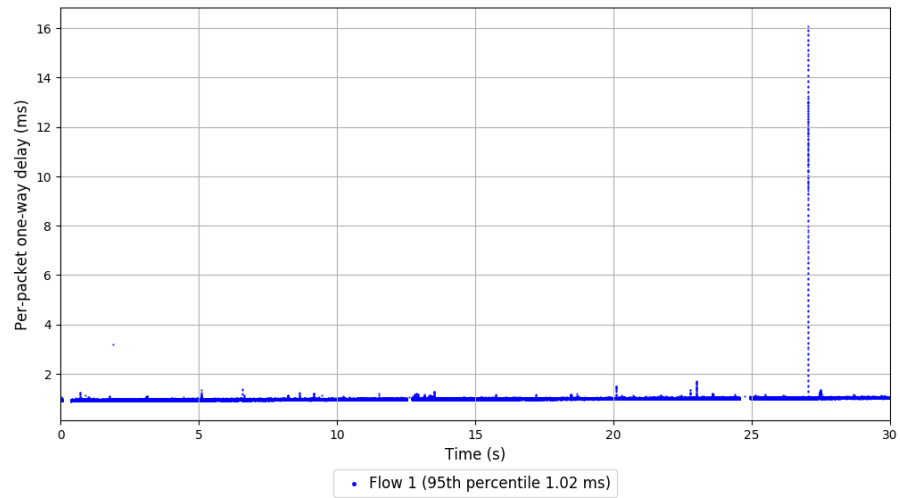
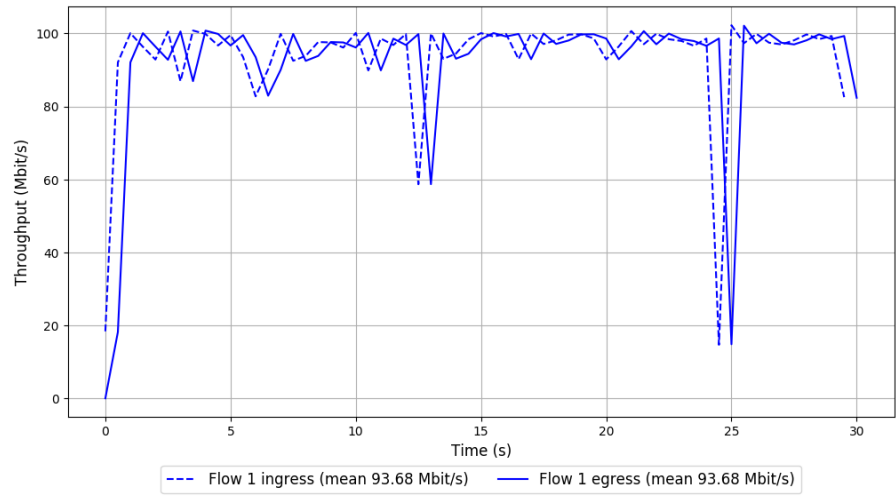
-- Flow 1:

Average throughput: 93.68 Mbit/s

95th percentile per-packet one-way delay: 1.022 ms

Loss rate: 0.01%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-07-12 12:39:08

End at: 2019-07-12 12:39:38

Local clock offset: 5.216 ms

Remote clock offset: 3.697 ms

Below is generated by plot.py at 2019-07-12 13:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.78 Mbit/s

95th percentile per-packet one-way delay: 0.912 ms

Loss rate: 0.01%

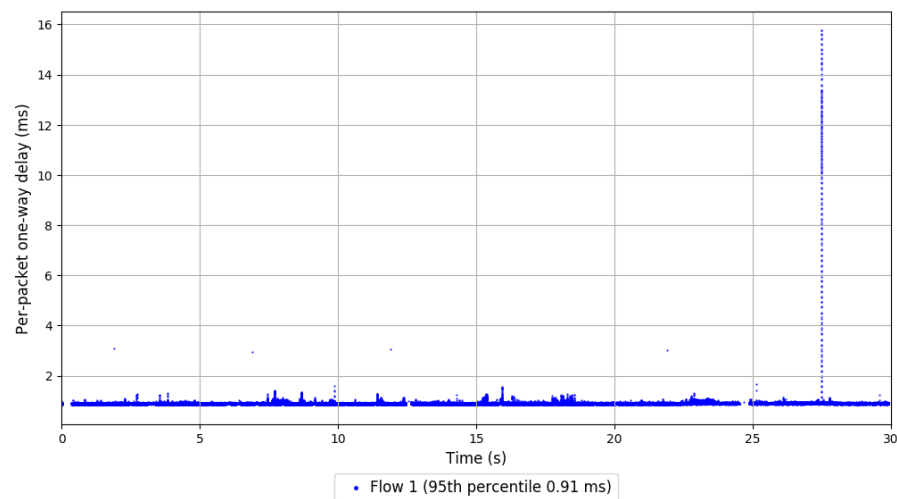
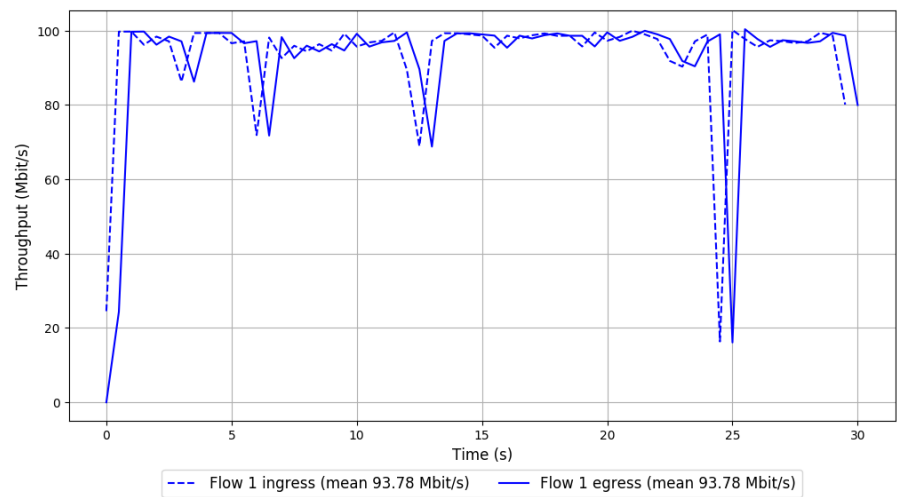
-- Flow 1:

Average throughput: 93.78 Mbit/s

95th percentile per-packet one-way delay: 0.912 ms

Loss rate: 0.01%

Run 5: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2019-07-12 10:22:39

End at: 2019-07-12 10:23:09

Local clock offset: 7.005 ms

Remote clock offset: 3.697 ms

Below is generated by plot.py at 2019-07-12 13:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 0.923 ms

Loss rate: 0.13%

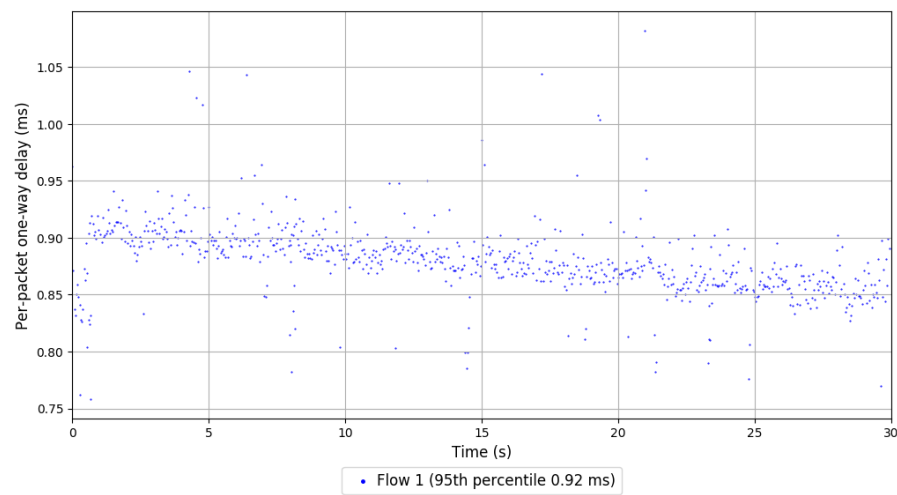
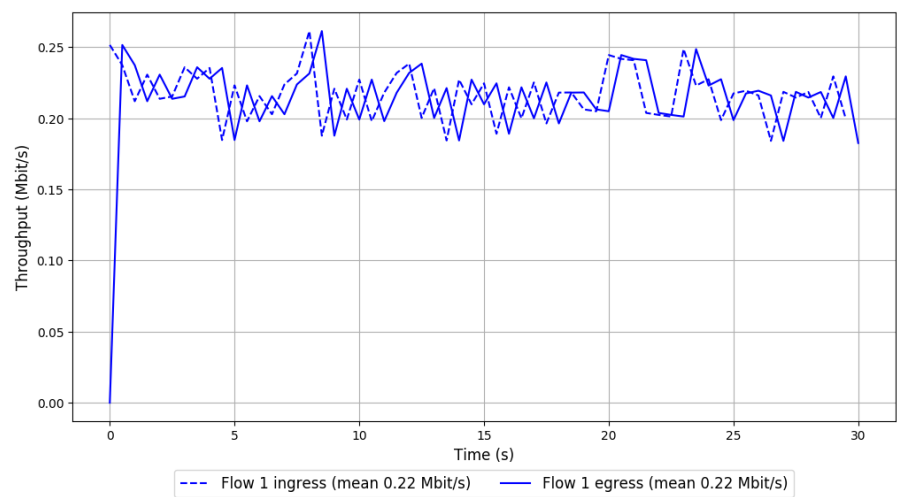
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 0.923 ms

Loss rate: 0.13%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-07-12 10:55:52

End at: 2019-07-12 10:56:22

Local clock offset: 6.108 ms

Remote clock offset: 1.981 ms

Below is generated by plot.py at 2019-07-12 13:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.13%

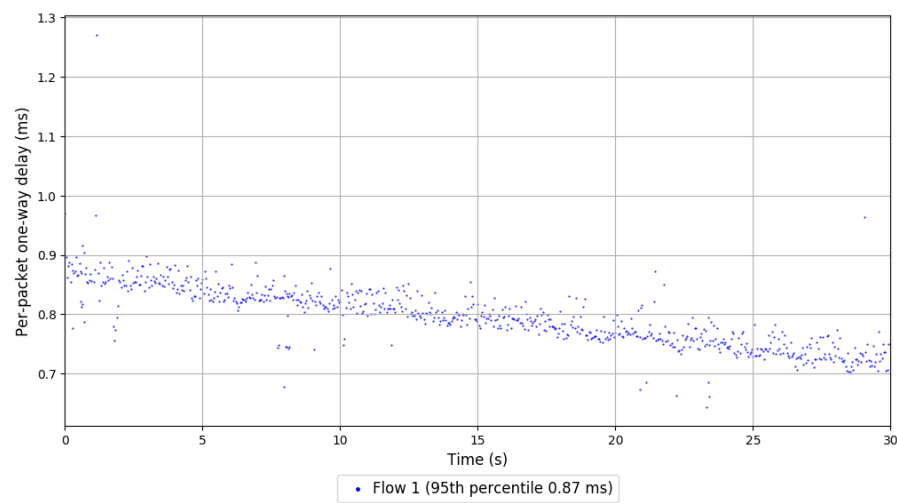
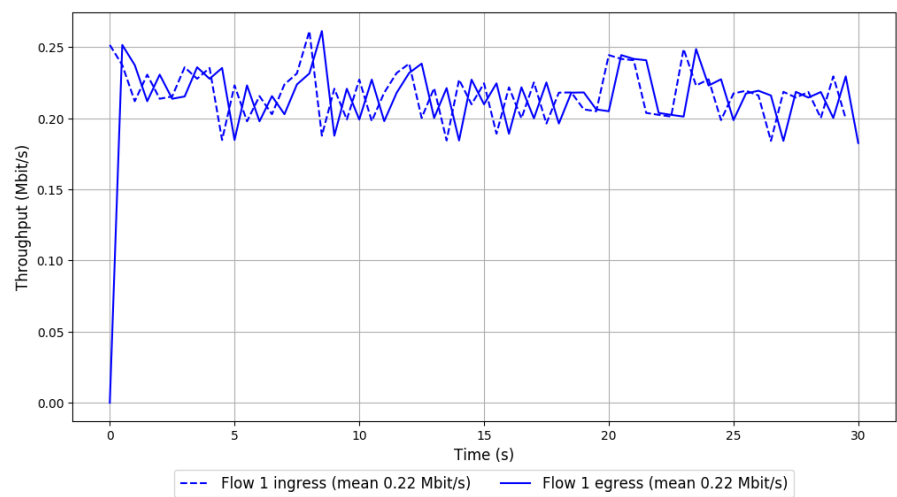
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.13%

Run 2: Report of SReAM — Data Link

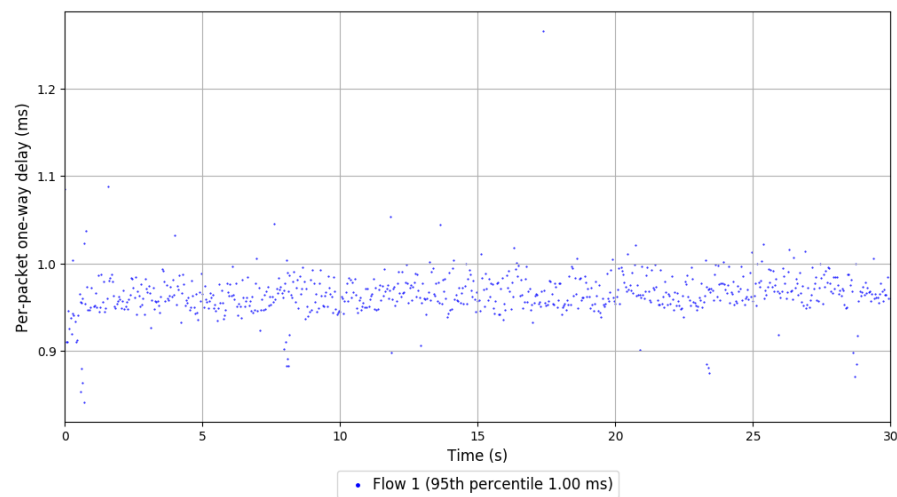
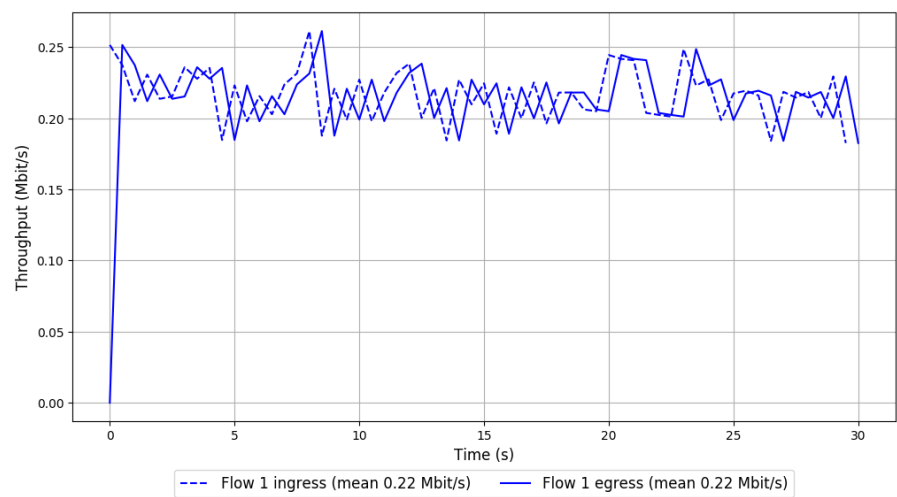


Run 3: Statistics of SCReAM

Start at: 2019-07-12 11:29:25
End at: 2019-07-12 11:29:55
Local clock offset: 4.719 ms
Remote clock offset: -0.779 ms

Below is generated by plot.py at 2019-07-12 13:52:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.998 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.998 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-07-12 12:02:53

End at: 2019-07-12 12:03:23

Local clock offset: 5.012 ms

Remote clock offset: 0.412 ms

Below is generated by plot.py at 2019-07-12 13:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.244 ms

Loss rate: 0.00%

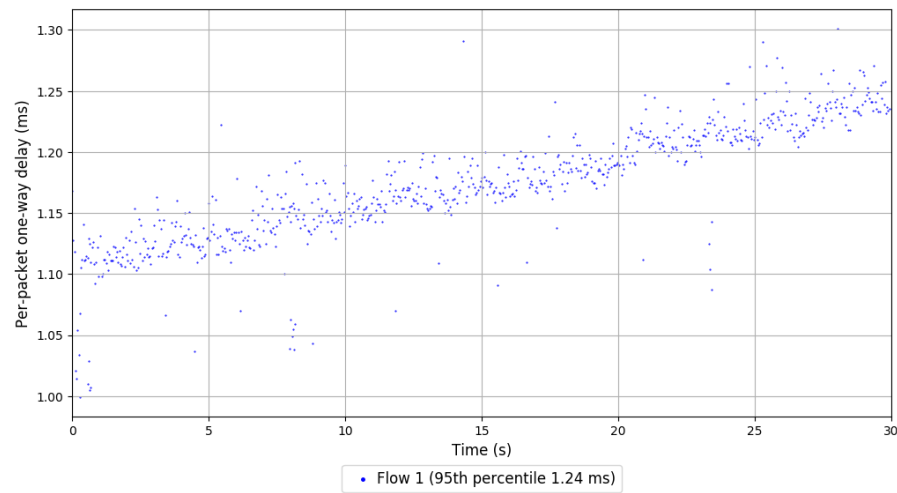
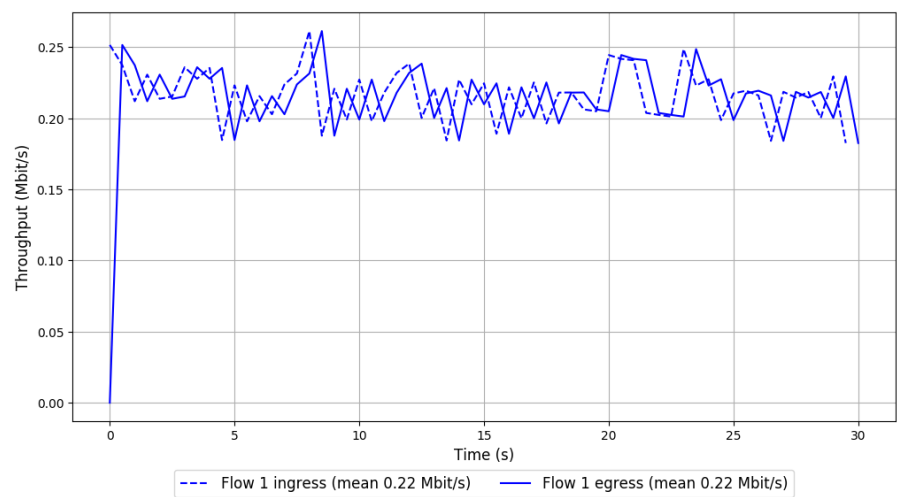
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.244 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-07-12 12:36:26

End at: 2019-07-12 12:36:56

Local clock offset: 5.183 ms

Remote clock offset: 3.593 ms

Below is generated by plot.py at 2019-07-12 13:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

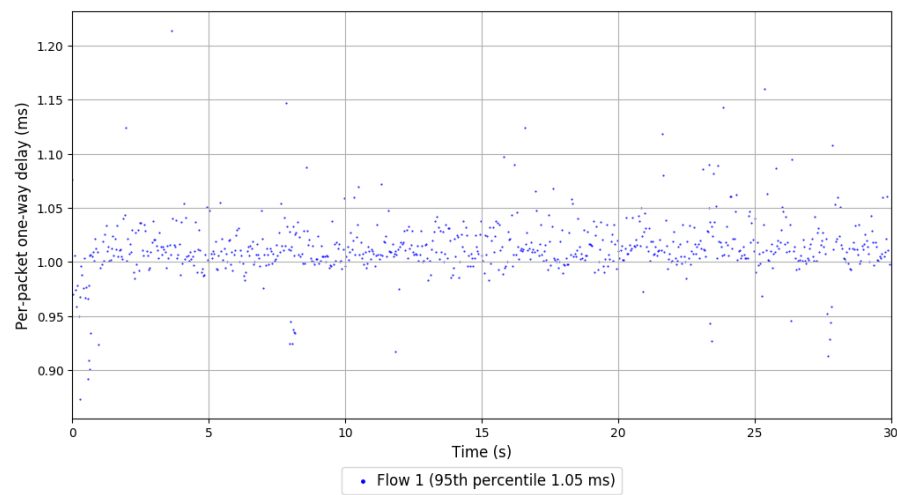
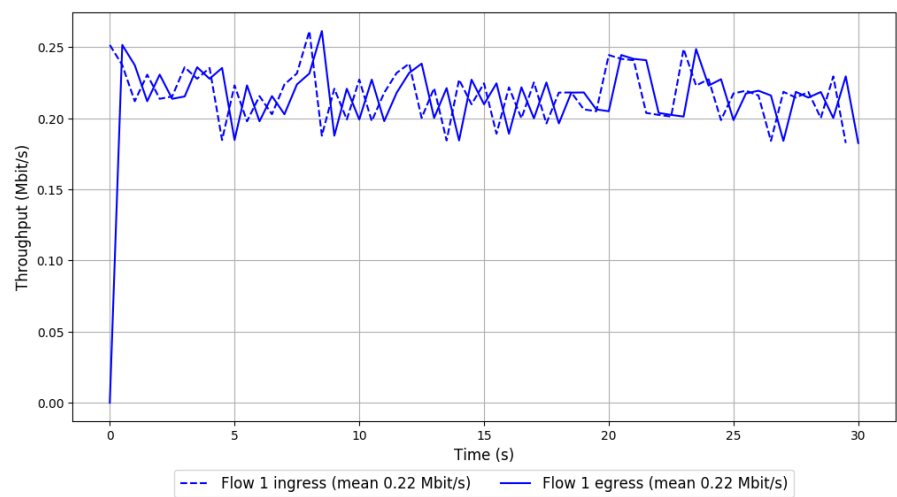
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-07-12 10:09:59

End at: 2019-07-12 10:10:29

Local clock offset: 6.673 ms

Remote clock offset: 3.882 ms

Below is generated by plot.py at 2019-07-12 13:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.24 Mbit/s

95th percentile per-packet one-way delay: 0.923 ms

Loss rate: 0.01%

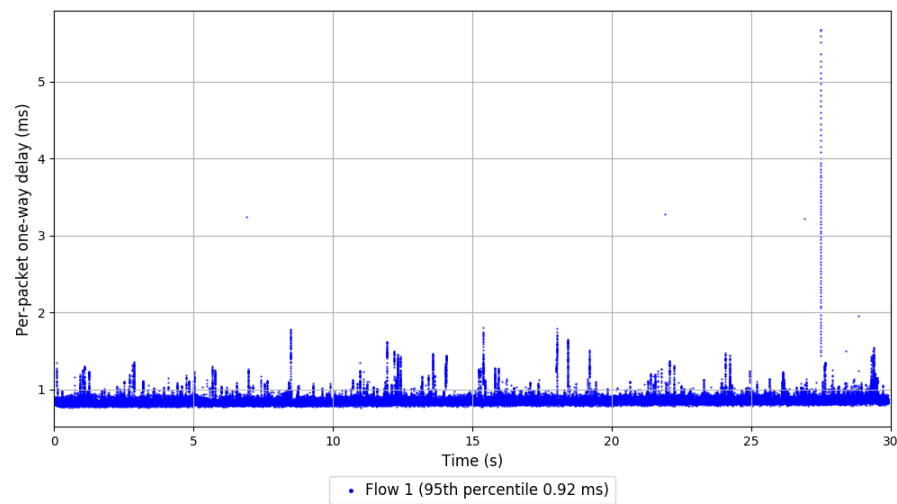
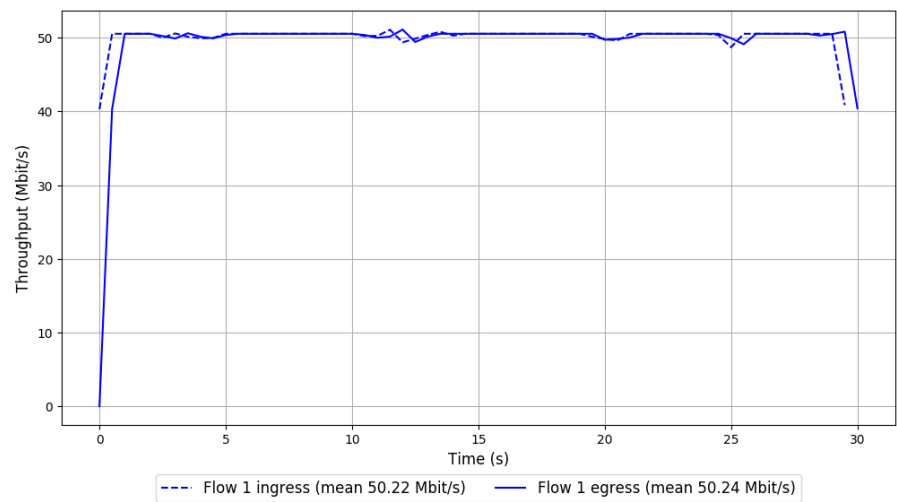
-- Flow 1:

Average throughput: 50.24 Mbit/s

95th percentile per-packet one-way delay: 0.923 ms

Loss rate: 0.01%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-07-12 10:43:11

End at: 2019-07-12 10:43:41

Local clock offset: 6.061 ms

Remote clock offset: 3.41 ms

Below is generated by plot.py at 2019-07-12 13:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.23 Mbit/s

95th percentile per-packet one-way delay: 0.914 ms

Loss rate: 0.00%

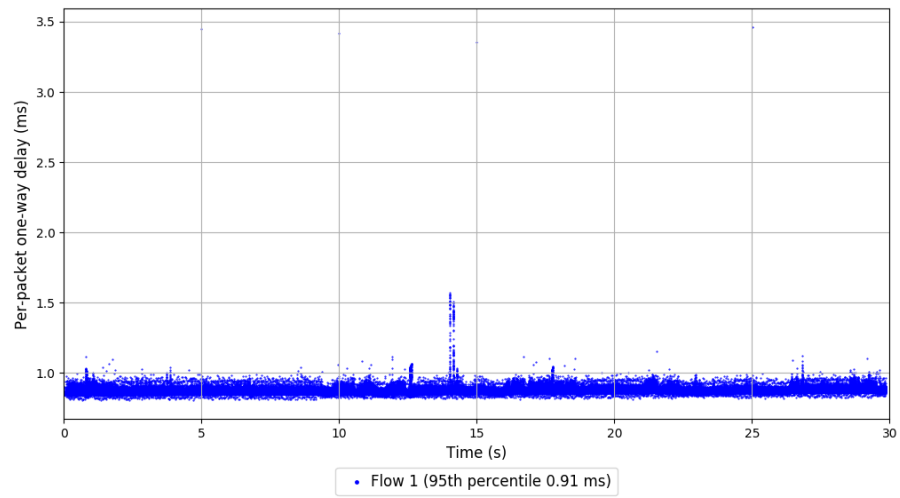
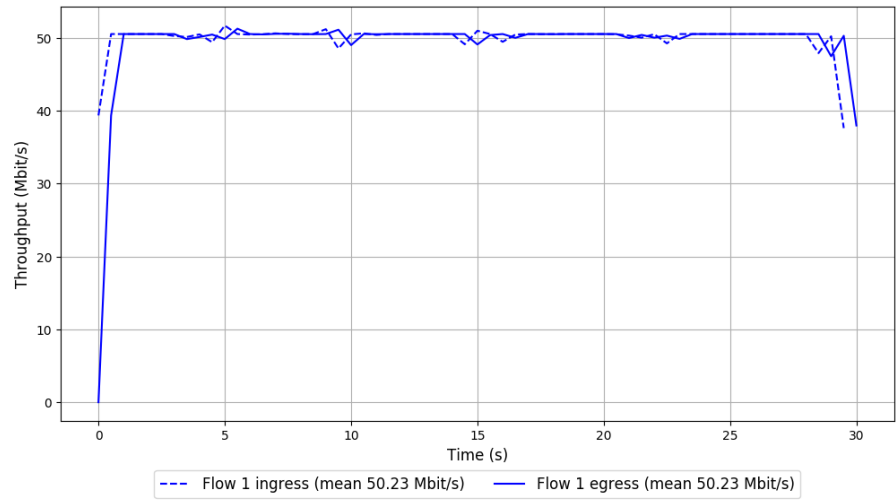
-- Flow 1:

Average throughput: 50.23 Mbit/s

95th percentile per-packet one-way delay: 0.914 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

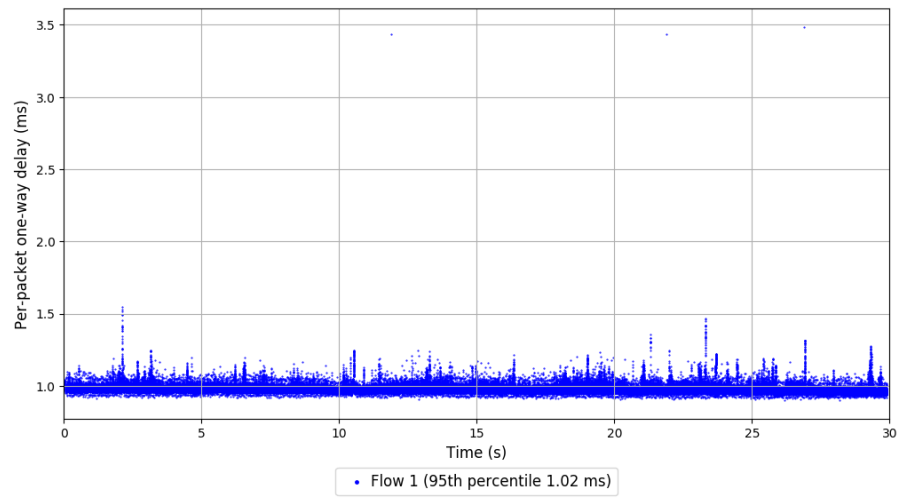
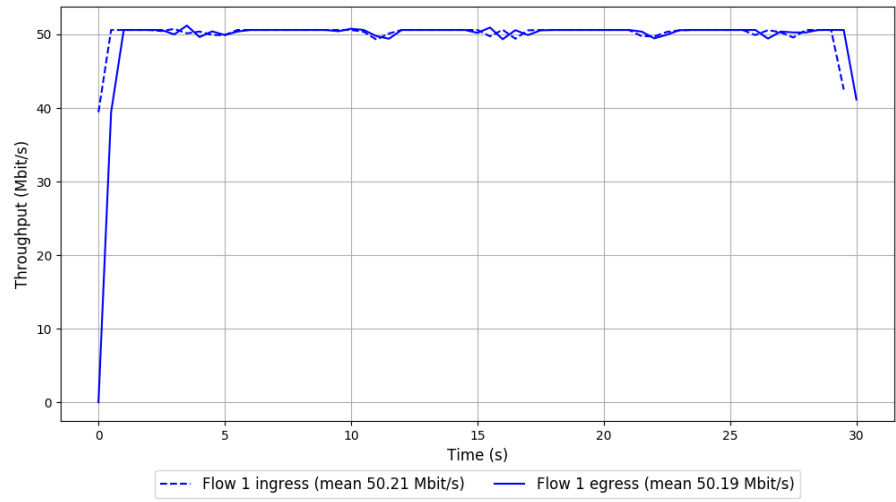


Run 3: Statistics of Sprout

Start at: 2019-07-12 11:16:43
End at: 2019-07-12 11:17:13
Local clock offset: 4.87 ms
Remote clock offset: -0.784 ms

Below is generated by plot.py at 2019-07-12 13:52:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.19 Mbit/s
95th percentile per-packet one-way delay: 1.023 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 50.19 Mbit/s
95th percentile per-packet one-way delay: 1.023 ms
Loss rate: 0.05%

Run 3: Report of Sprout — Data Link

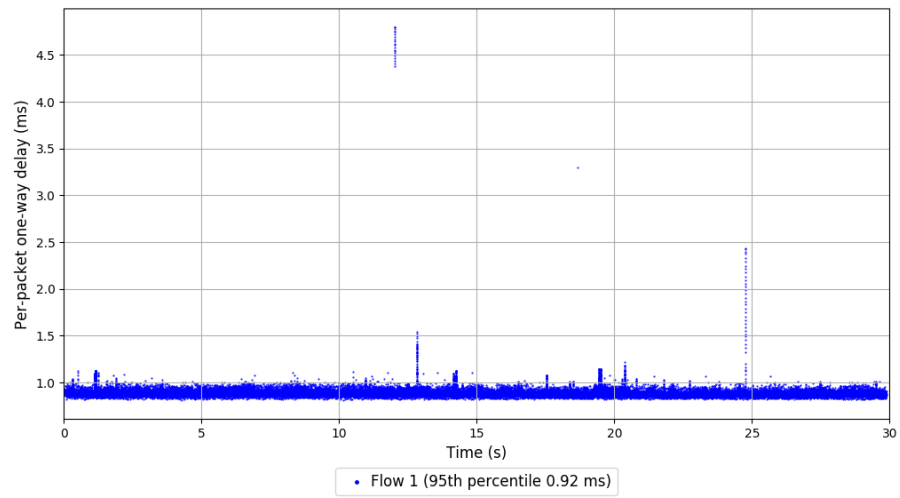
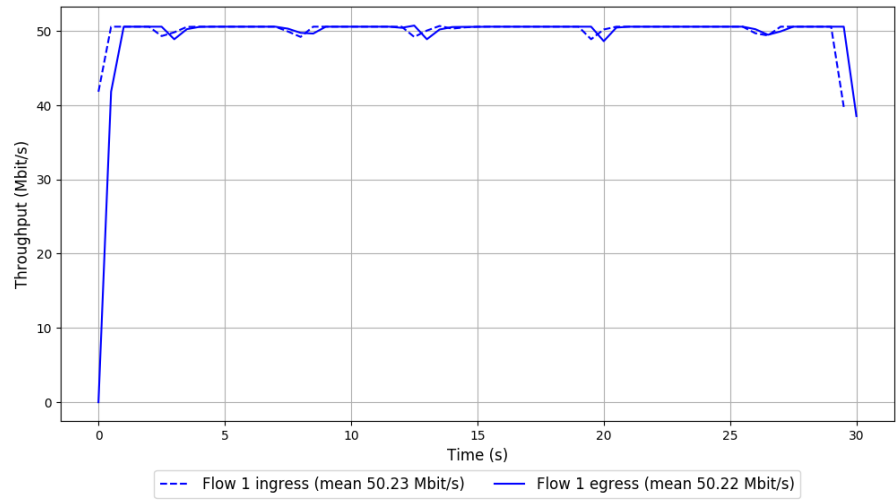


Run 4: Statistics of Sprout

Start at: 2019-07-12 11:50:09
End at: 2019-07-12 11:50:39
Local clock offset: 4.927 ms
Remote clock offset: -0.548 ms

Below is generated by plot.py at 2019-07-12 13:52:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.22 Mbit/s
95th percentile per-packet one-way delay: 0.919 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 50.22 Mbit/s
95th percentile per-packet one-way delay: 0.919 ms
Loss rate: 0.04%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-07-12 12:23:41

End at: 2019-07-12 12:24:11

Local clock offset: 5.122 ms

Remote clock offset: 3.216 ms

Below is generated by plot.py at 2019-07-12 13:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.25 Mbit/s

95th percentile per-packet one-way delay: 0.931 ms

Loss rate: 0.00%

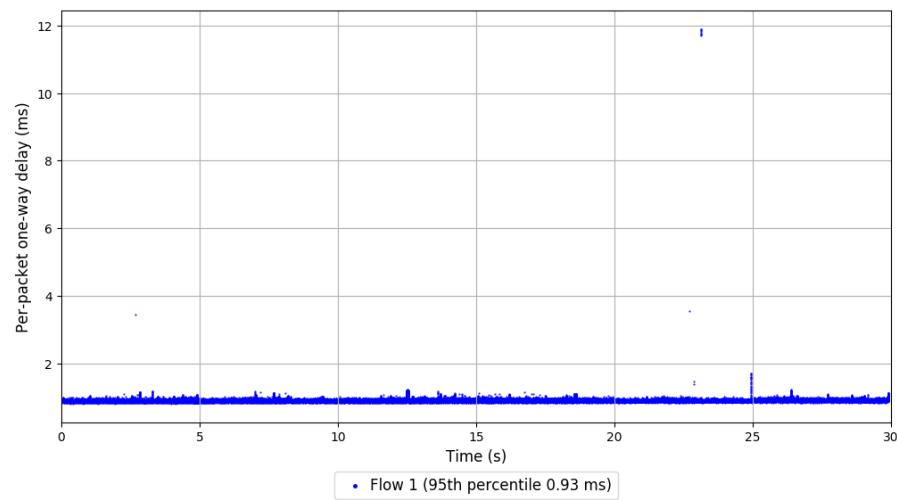
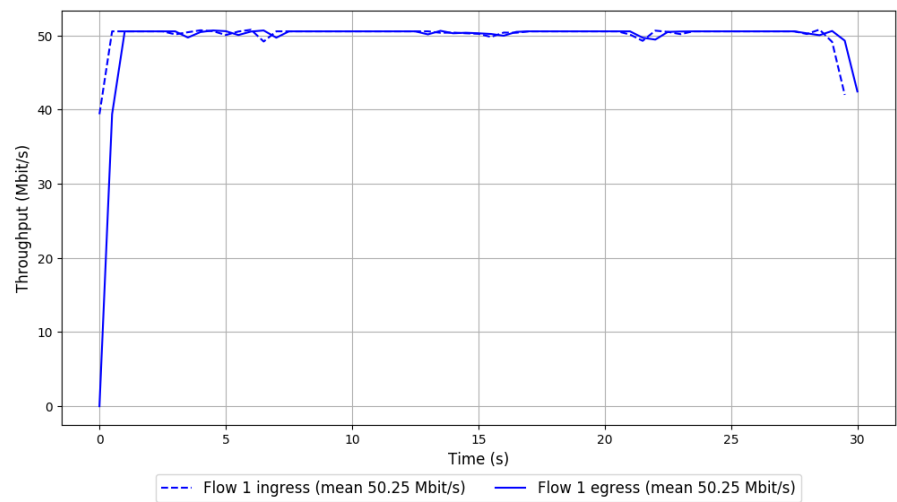
-- Flow 1:

Average throughput: 50.25 Mbit/s

95th percentile per-packet one-way delay: 0.931 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-07-12 10:17:03

End at: 2019-07-12 10:17:33

Local clock offset: 6.797 ms

Remote clock offset: 4.271 ms

Below is generated by plot.py at 2019-07-12 13:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.41 Mbit/s

95th percentile per-packet one-way delay: 1.003 ms

Loss rate: 0.01%

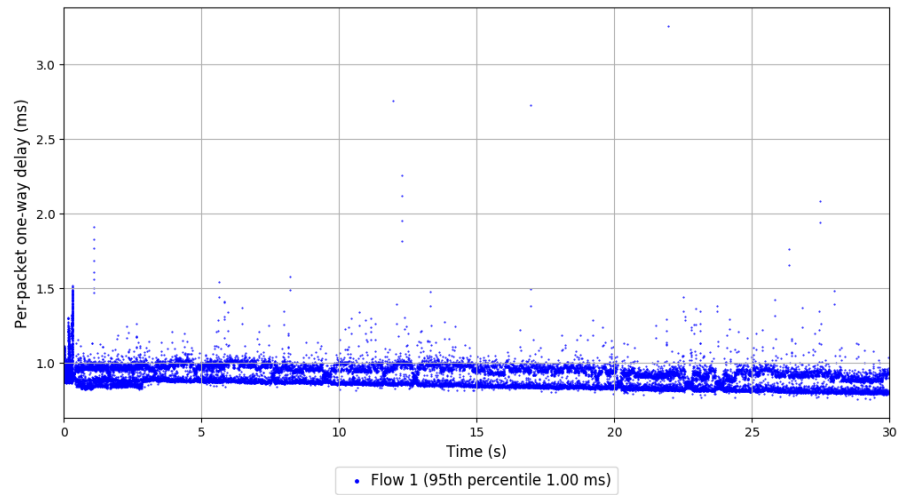
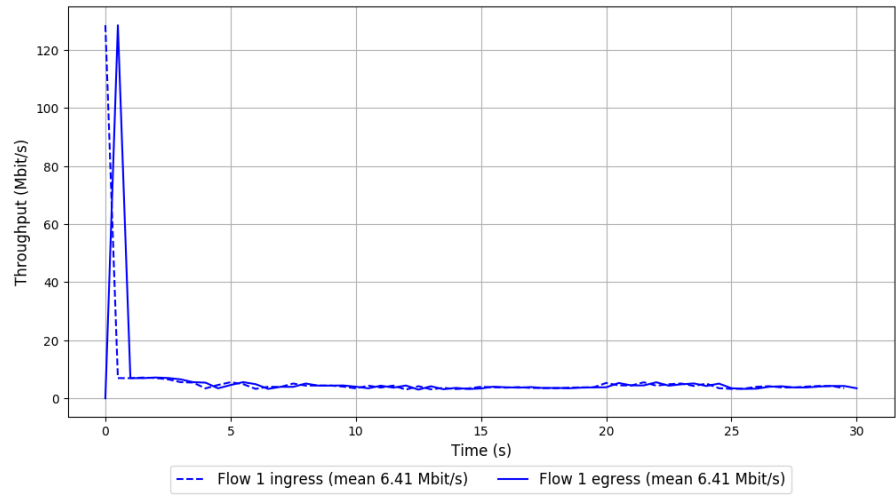
-- Flow 1:

Average throughput: 6.41 Mbit/s

95th percentile per-packet one-way delay: 1.003 ms

Loss rate: 0.01%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-07-12 10:50:16

End at: 2019-07-12 10:50:46

Local clock offset: 6.038 ms

Remote clock offset: 3.455 ms

Below is generated by plot.py at 2019-07-12 13:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.23 Mbit/s

95th percentile per-packet one-way delay: 1.070 ms

Loss rate: 0.00%

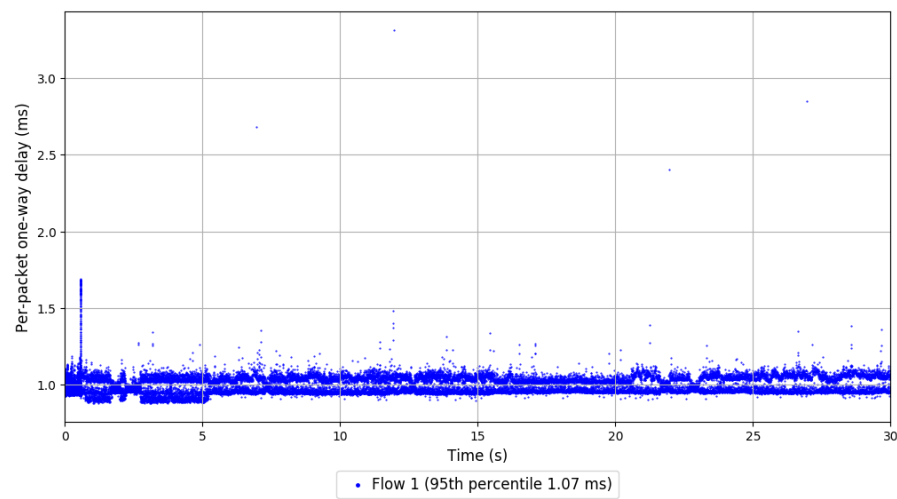
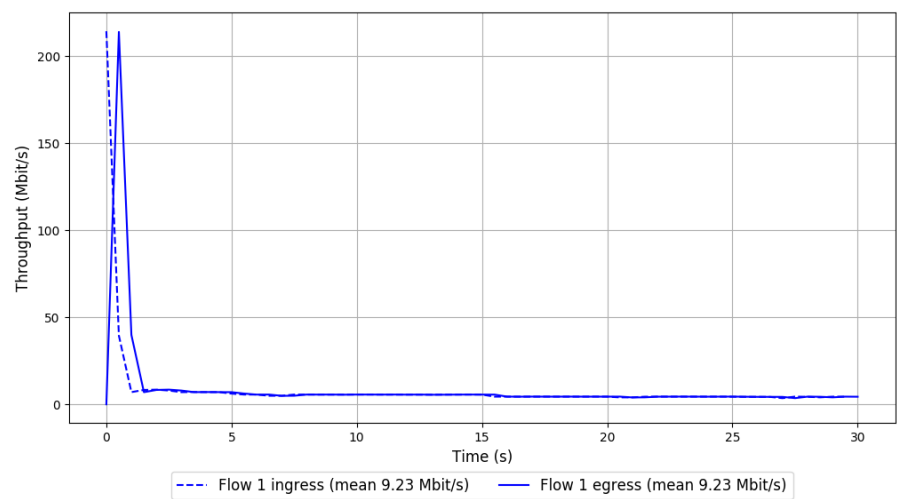
-- Flow 1:

Average throughput: 9.23 Mbit/s

95th percentile per-packet one-way delay: 1.070 ms

Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-07-12 11:23:44

End at: 2019-07-12 11:24:14

Local clock offset: 4.755 ms

Remote clock offset: -0.991 ms

Below is generated by plot.py at 2019-07-12 13:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.47 Mbit/s

95th percentile per-packet one-way delay: 0.868 ms

Loss rate: 0.01%

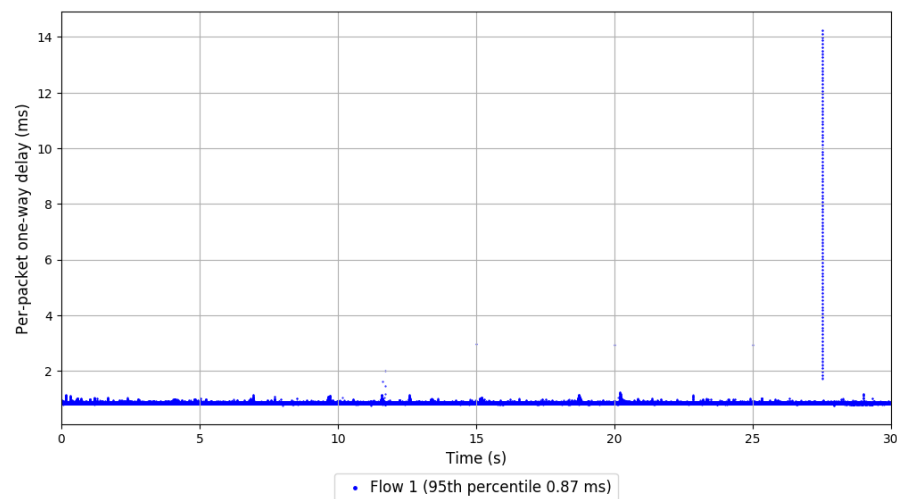
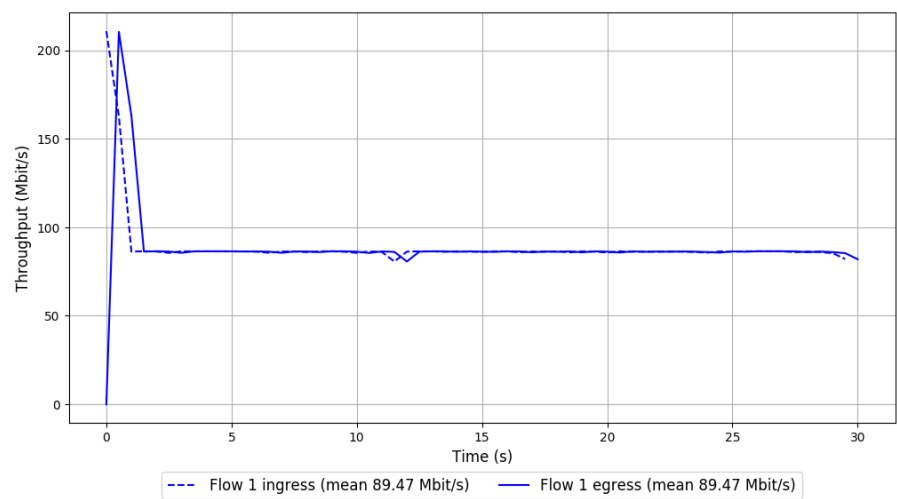
-- Flow 1:

Average throughput: 89.47 Mbit/s

95th percentile per-packet one-way delay: 0.868 ms

Loss rate: 0.01%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-07-12 11:57:11

End at: 2019-07-12 11:57:41

Local clock offset: 4.951 ms

Remote clock offset: -0.664 ms

Below is generated by plot.py at 2019-07-12 13:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.53 Mbit/s

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

Loss rate: 0.01%

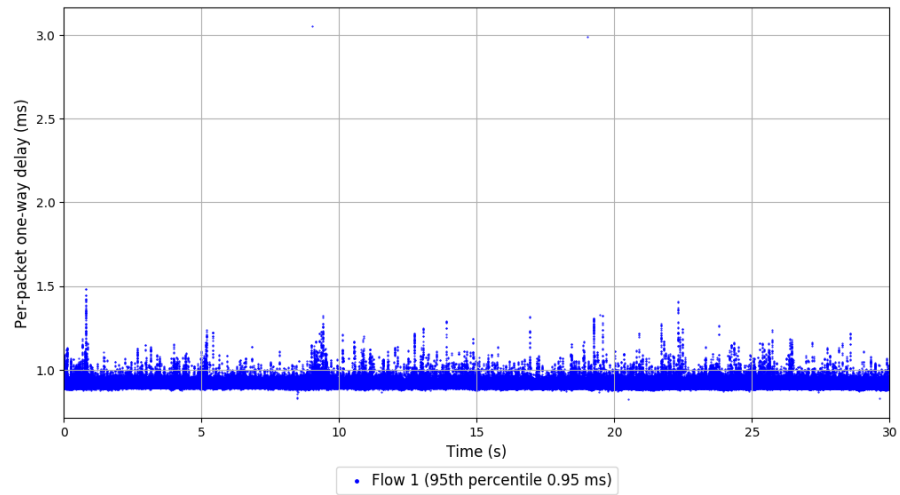
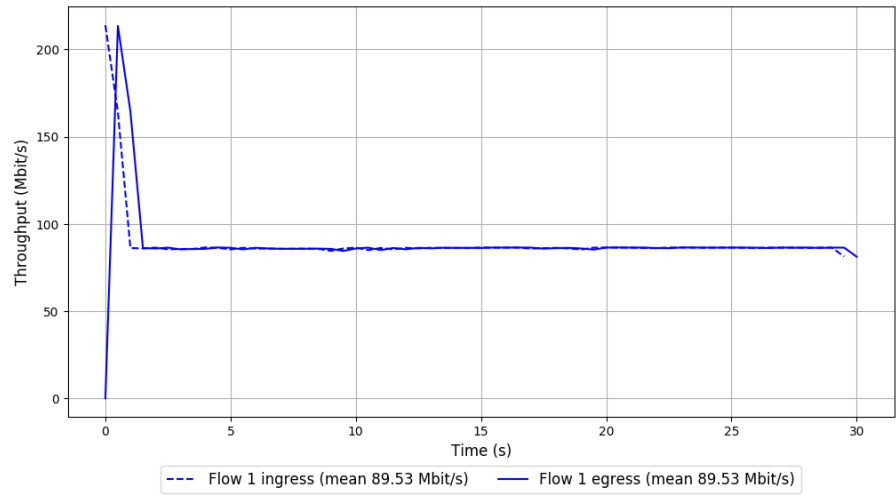
-- Flow 1:

Average throughput: 89.53 Mbit/s

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

Loss rate: 0.01%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-07-12 12:30:41

End at: 2019-07-12 12:31:11

Local clock offset: 5.123 ms

Remote clock offset: 3.399 ms

Below is generated by plot.py at 2019-07-12 13:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 122.11 Mbit/s

95th percentile per-packet one-way delay: 0.967 ms

Loss rate: 0.00%

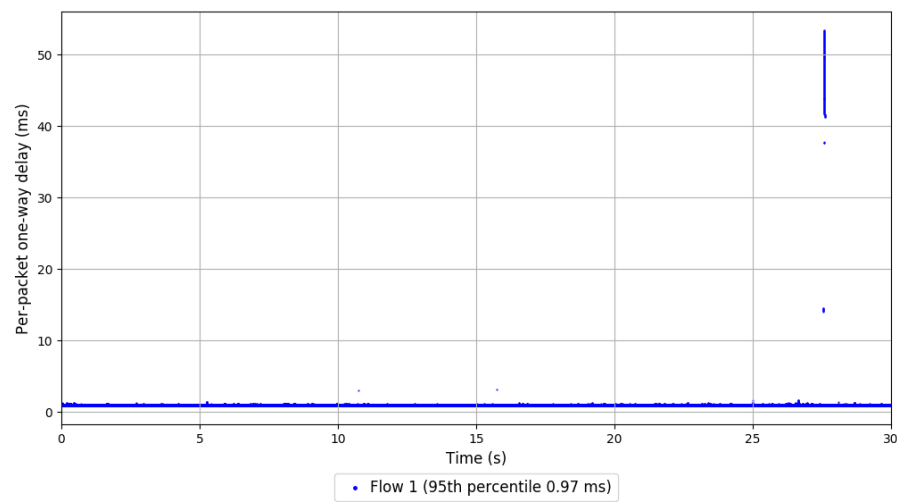
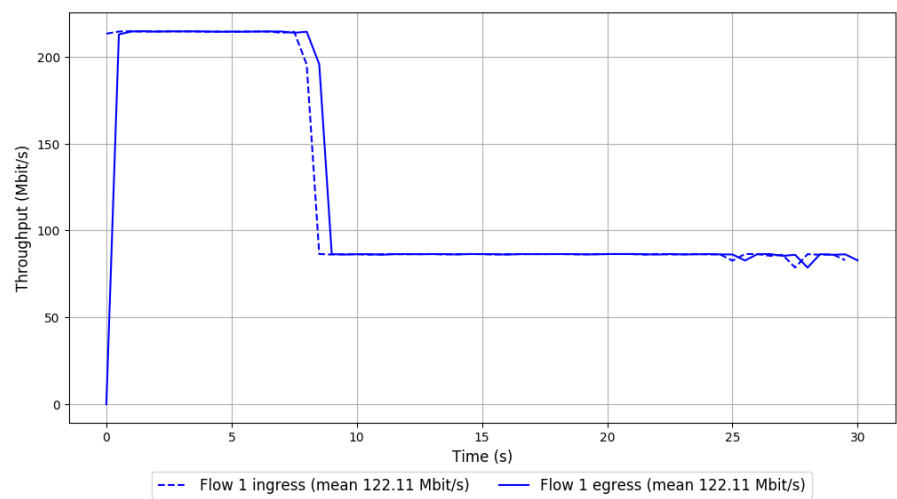
-- Flow 1:

Average throughput: 122.11 Mbit/s

95th percentile per-packet one-way delay: 0.967 ms

Loss rate: 0.00%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-07-12 10:03:13

End at: 2019-07-12 10:03:43

Local clock offset: 6.888 ms

Remote clock offset: 3.345 ms

Below is generated by plot.py at 2019-07-12 13:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.38 Mbit/s

95th percentile per-packet one-way delay: 1.125 ms

Loss rate: 0.01%

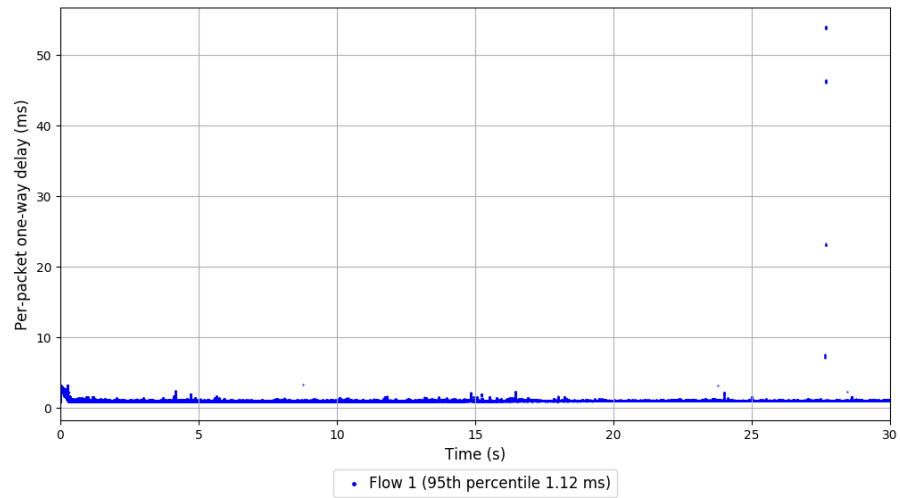
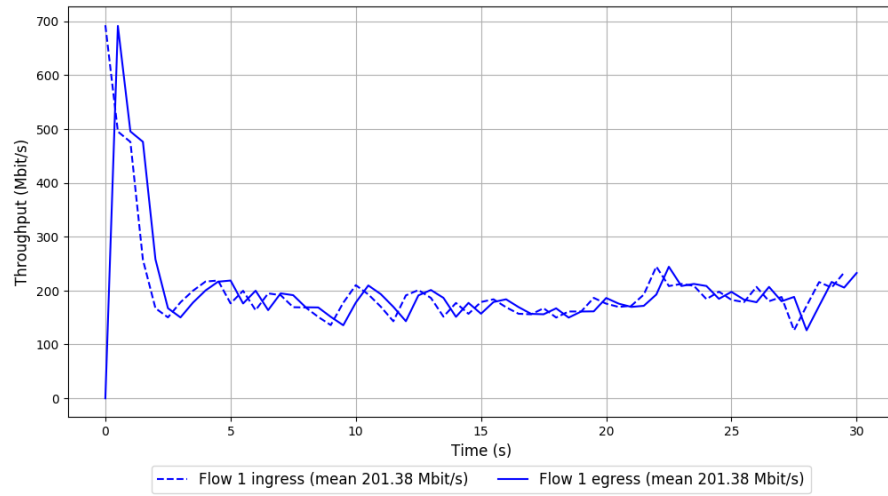
-- Flow 1:

Average throughput: 201.38 Mbit/s

95th percentile per-packet one-way delay: 1.125 ms

Loss rate: 0.01%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-07-12 10:36:19

End at: 2019-07-12 10:36:49

Local clock offset: 6.368 ms

Remote clock offset: 3.28 ms

Below is generated by plot.py at 2019-07-12 13:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 293.73 Mbit/s

95th percentile per-packet one-way delay: 1.109 ms

Loss rate: 0.00%

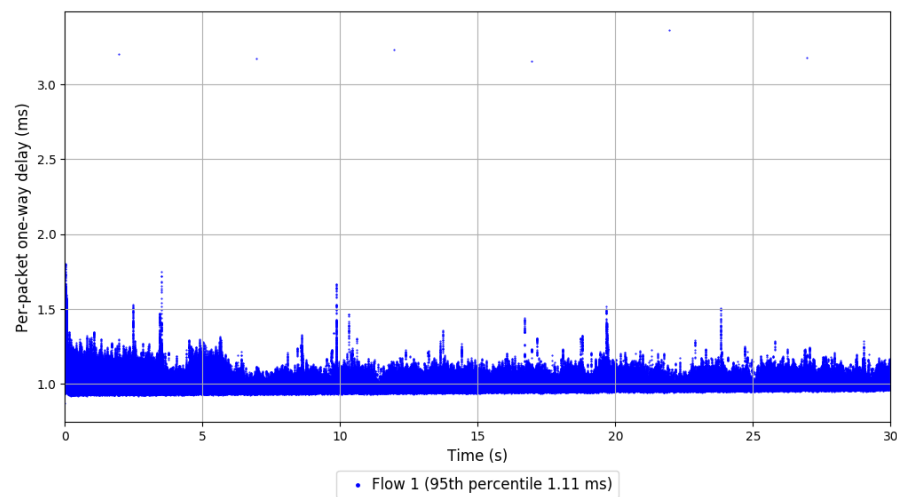
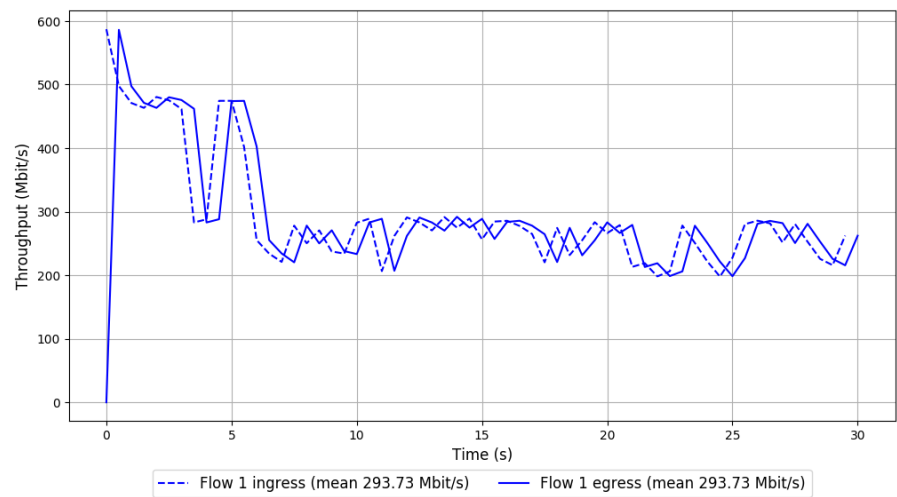
-- Flow 1:

Average throughput: 293.73 Mbit/s

95th percentile per-packet one-way delay: 1.109 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link

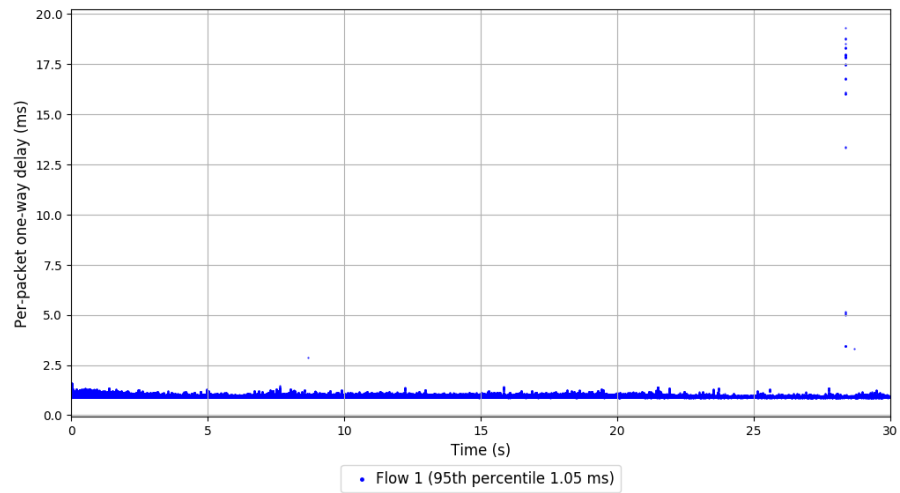
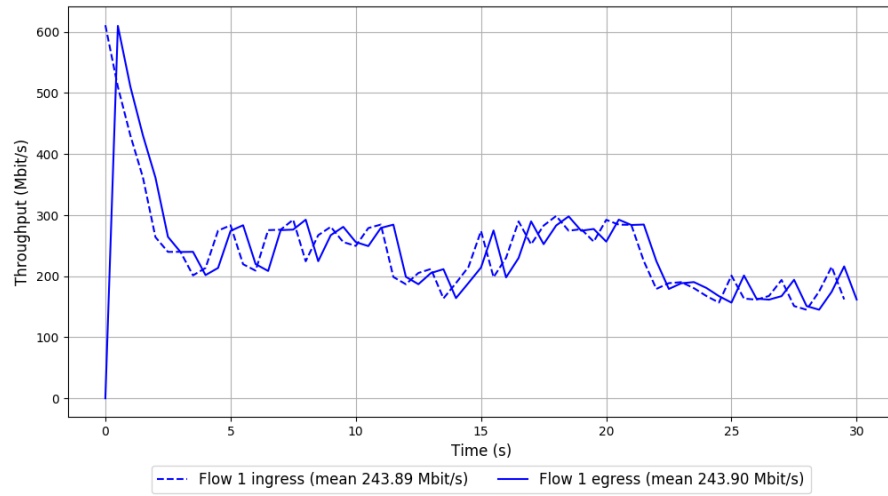


Run 3: Statistics of TCP Vegas

Start at: 2019-07-12 11:09:55
End at: 2019-07-12 11:10:25
Local clock offset: 5.065 ms
Remote clock offset: -0.332 ms

Below is generated by plot.py at 2019-07-12 13:52:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 243.90 Mbit/s
95th percentile per-packet one-way delay: 1.055 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 243.90 Mbit/s
95th percentile per-packet one-way delay: 1.055 ms
Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link

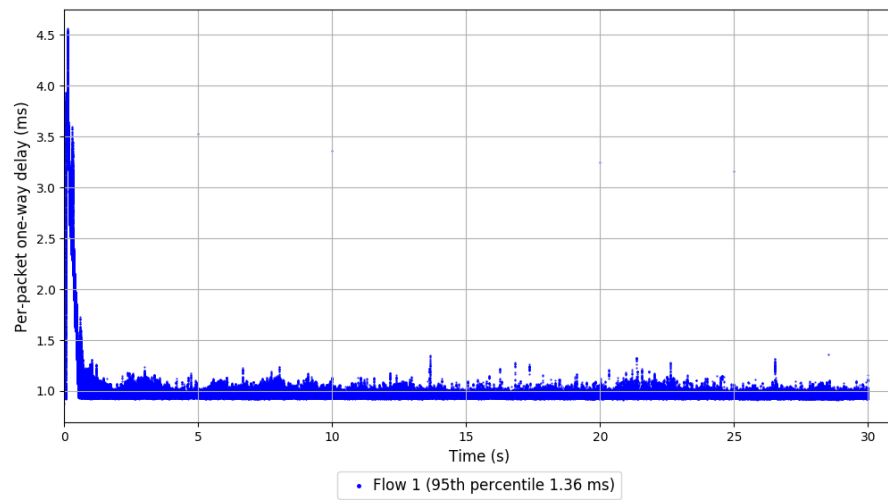
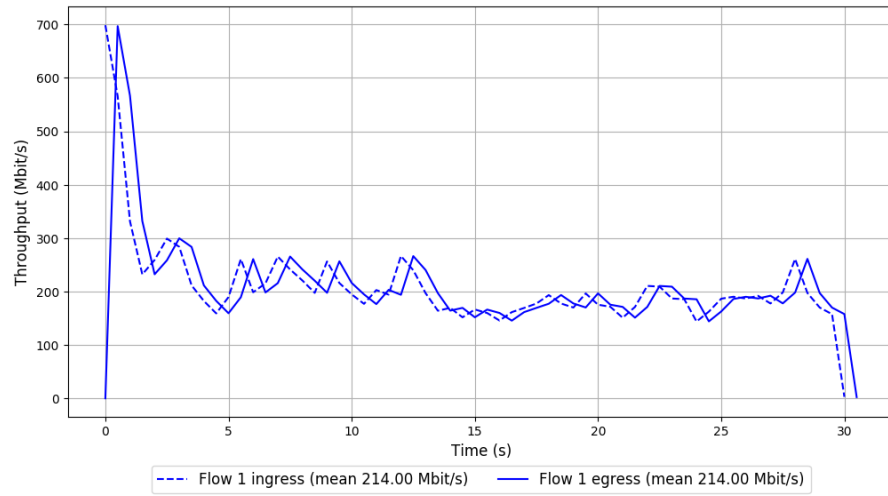


Run 4: Statistics of TCP Vegas

Start at: 2019-07-12 11:43:24
End at: 2019-07-12 11:43:54
Local clock offset: 4.896 ms
Remote clock offset: -0.604 ms

Below is generated by plot.py at 2019-07-12 13:52:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 214.00 Mbit/s
95th percentile per-packet one-way delay: 1.356 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 214.00 Mbit/s
95th percentile per-packet one-way delay: 1.356 ms
Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-07-12 12:16:53

End at: 2019-07-12 12:17:23

Local clock offset: 5.102 ms

Remote clock offset: 2.704 ms

Below is generated by plot.py at 2019-07-12 13:52:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.46 Mbit/s

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

Loss rate: 0.00%

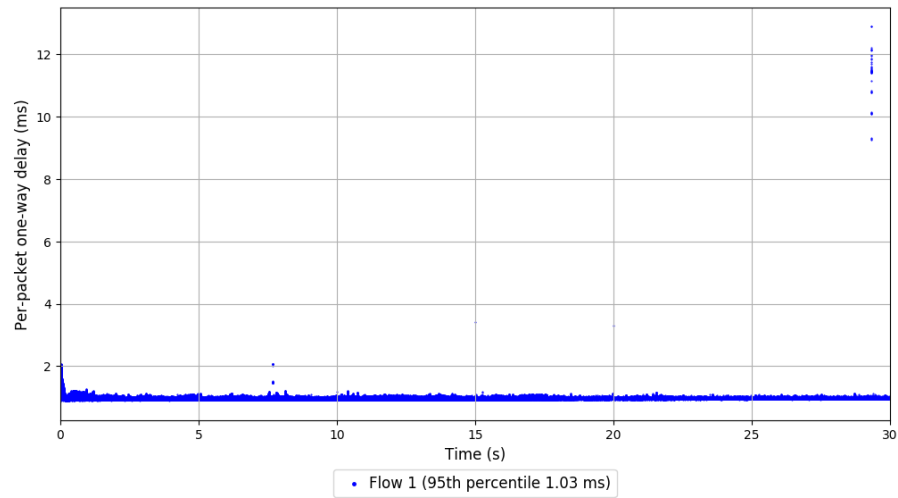
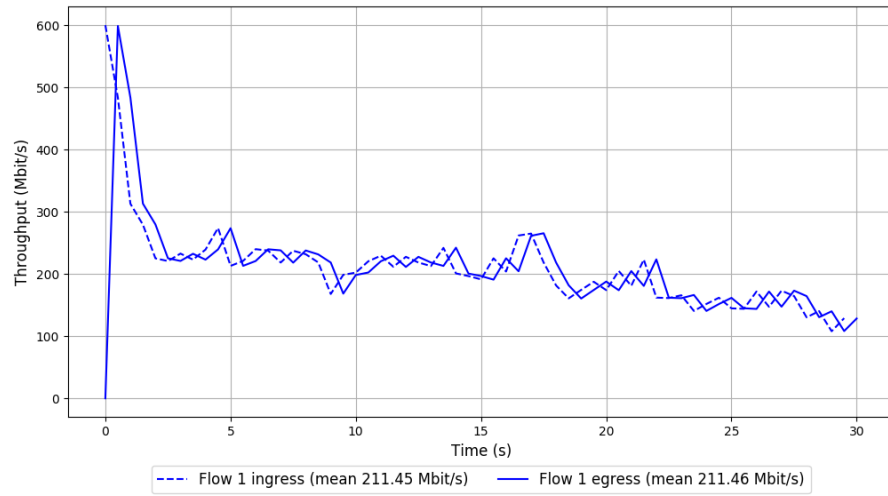
-- Flow 1:

Average throughput: 211.46 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-07-12 10:12:38

End at: 2019-07-12 10:13:08

Local clock offset: 6.699 ms

Remote clock offset: 3.972 ms

Below is generated by plot.py at 2019-07-12 13:53:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 282.79 Mbit/s

95th percentile per-packet one-way delay: 2.361 ms

Loss rate: 0.02%

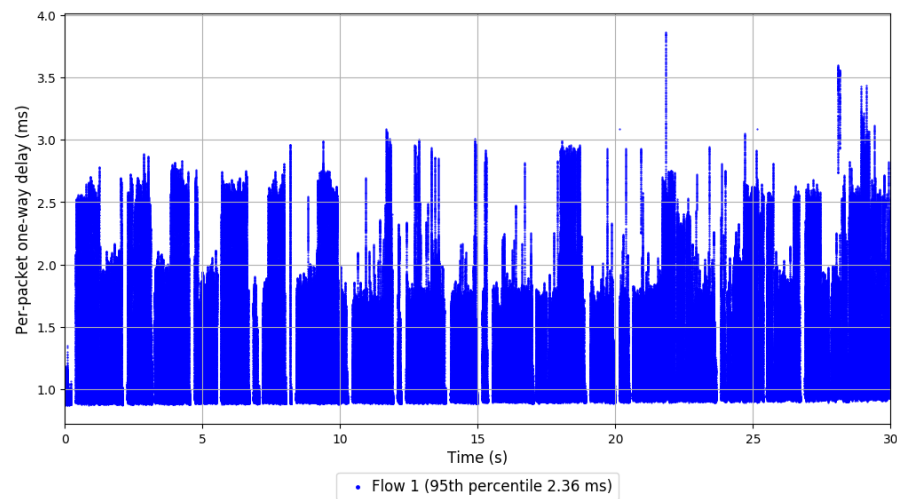
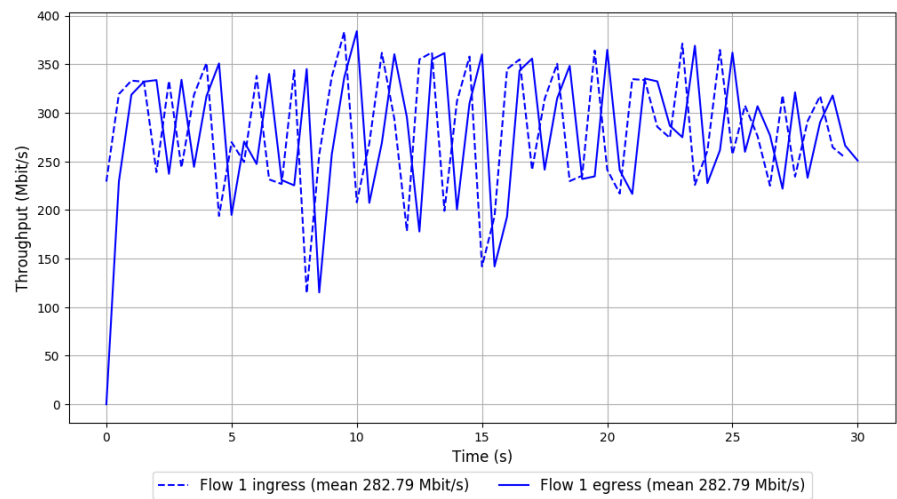
-- Flow 1:

Average throughput: 282.79 Mbit/s

95th percentile per-packet one-way delay: 2.361 ms

Loss rate: 0.02%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-07-12 10:45:50

End at: 2019-07-12 10:46:20

Local clock offset: 6.031 ms

Remote clock offset: 3.399 ms

Below is generated by plot.py at 2019-07-12 13:54:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 316.41 Mbit/s

95th percentile per-packet one-way delay: 2.502 ms

Loss rate: 0.00%

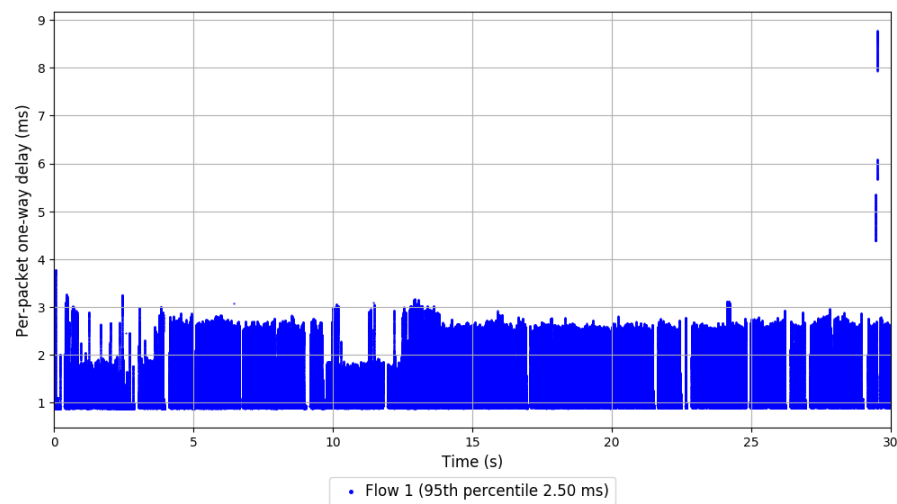
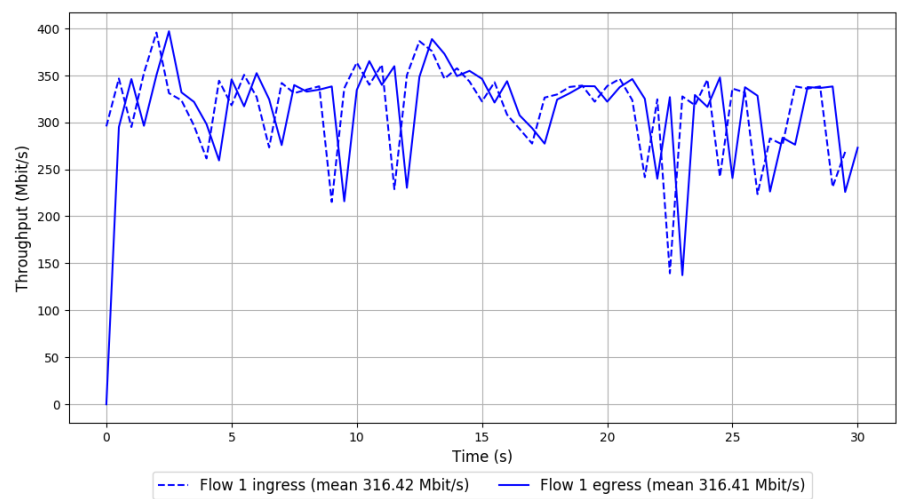
-- Flow 1:

Average throughput: 316.41 Mbit/s

95th percentile per-packet one-way delay: 2.502 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link

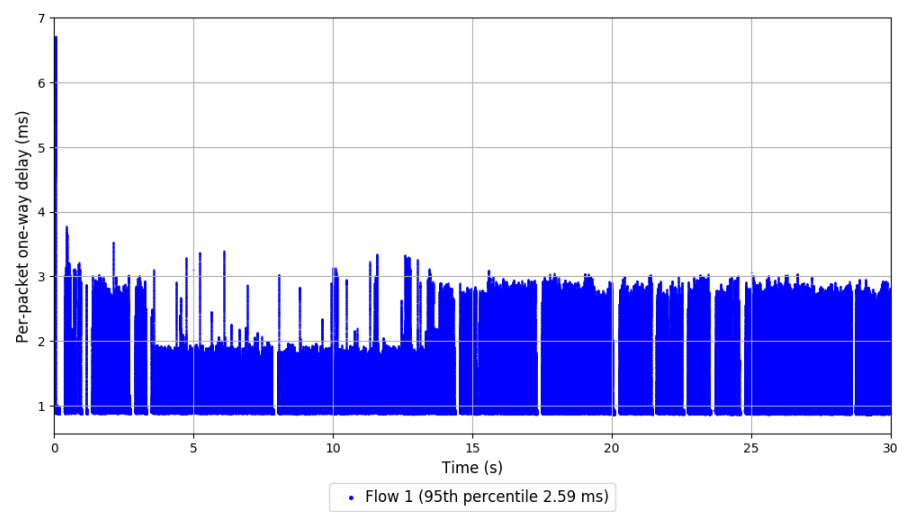
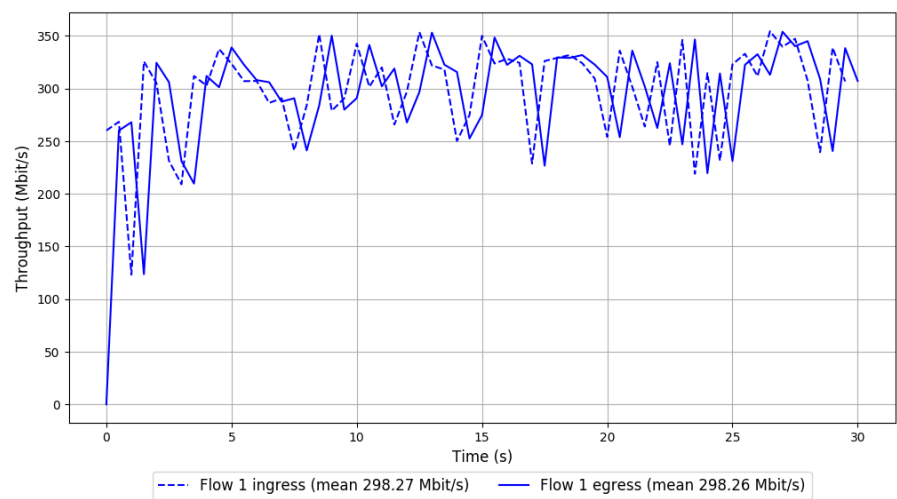


Run 3: Statistics of Verus

Start at: 2019-07-12 11:19:20
End at: 2019-07-12 11:19:50
Local clock offset: 4.802 ms
Remote clock offset: -0.885 ms

Below is generated by plot.py at 2019-07-12 13:55:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 298.26 Mbit/s
95th percentile per-packet one-way delay: 2.589 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 298.26 Mbit/s
95th percentile per-packet one-way delay: 2.589 ms
Loss rate: 0.00%

Run 3: Report of Verus — Data Link

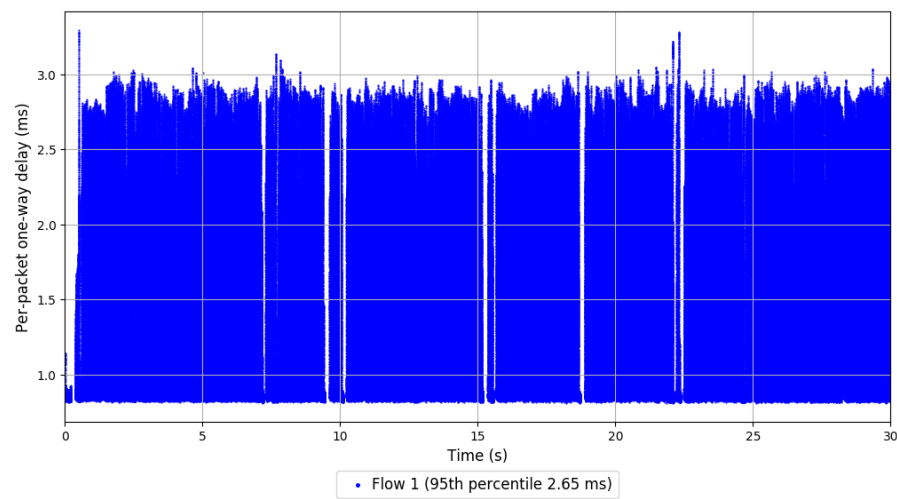
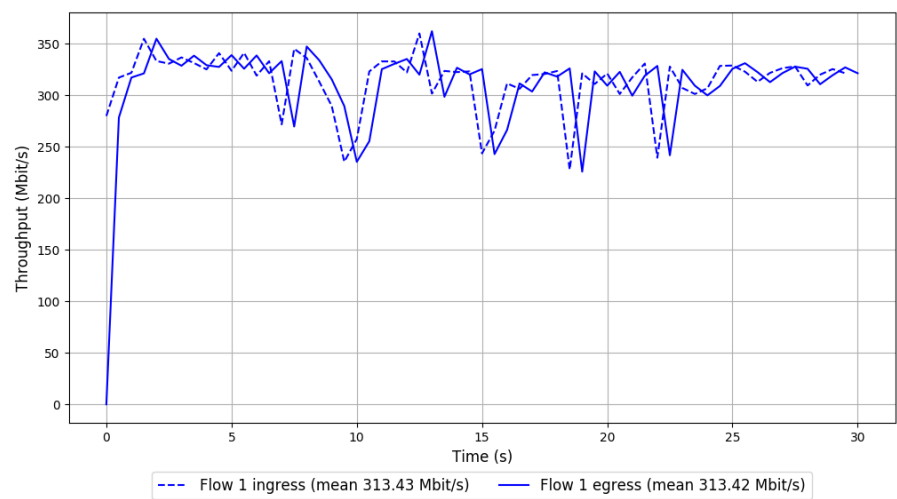


Run 4: Statistics of Verus

Start at: 2019-07-12 11:52:46
End at: 2019-07-12 11:53:16
Local clock offset: 4.943 ms
Remote clock offset: -0.576 ms

Below is generated by plot.py at 2019-07-12 13:55:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 313.42 Mbit/s
95th percentile per-packet one-way delay: 2.654 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 313.42 Mbit/s
95th percentile per-packet one-way delay: 2.654 ms
Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-07-12 12:26:16

End at: 2019-07-12 12:26:46

Local clock offset: 5.158 ms

Remote clock offset: 3.288 ms

Below is generated by plot.py at 2019-07-12 13:55:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 301.91 Mbit/s

95th percentile per-packet one-way delay: 2.496 ms

Loss rate: 0.00%

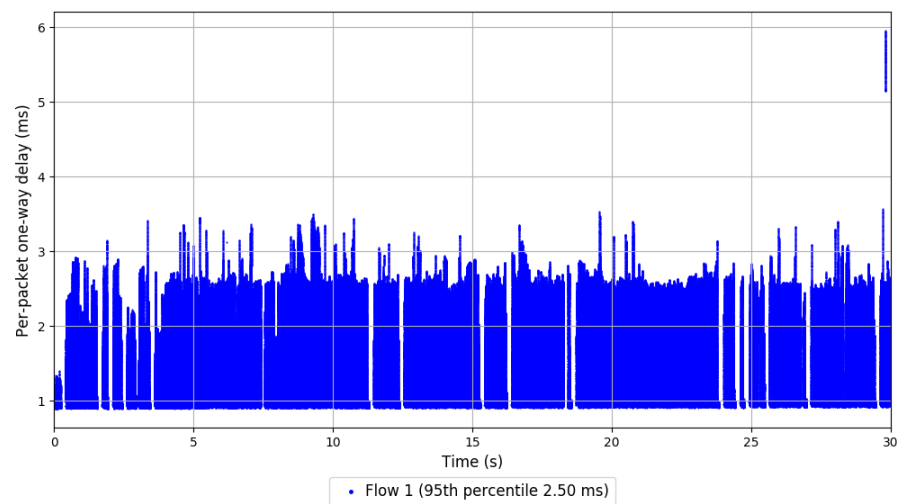
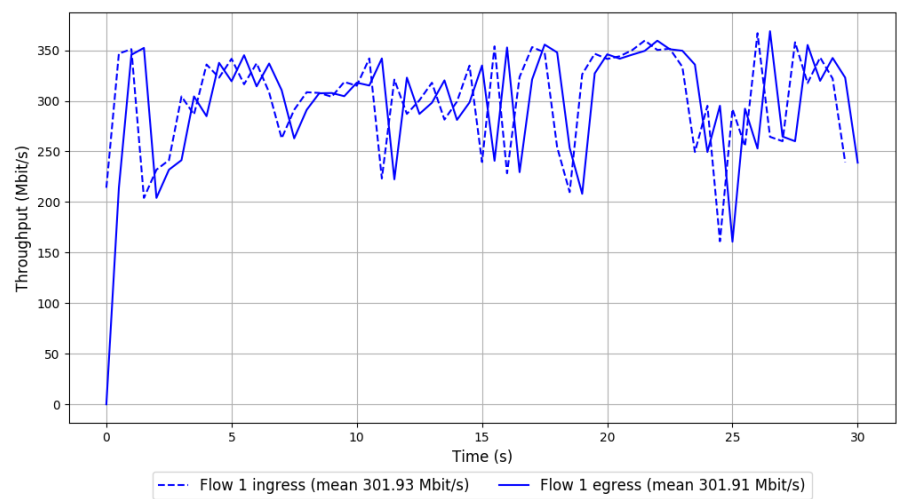
-- Flow 1:

Average throughput: 301.91 Mbit/s

95th percentile per-packet one-way delay: 2.496 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-07-12 10:23:53

End at: 2019-07-12 10:24:23

Local clock offset: 7.052 ms

Remote clock offset: 3.564 ms

Below is generated by plot.py at 2019-07-12 13:55:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 304.53 Mbit/s

95th percentile per-packet one-way delay: 0.894 ms

Loss rate: 0.00%

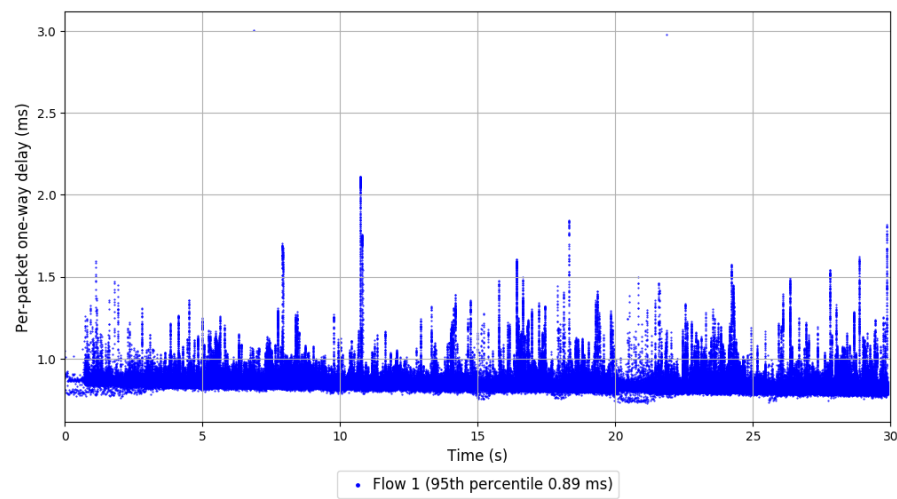
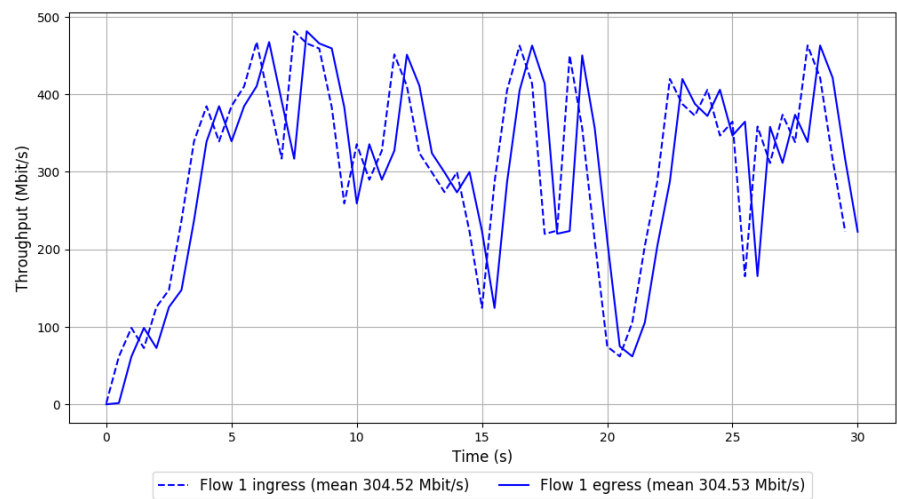
-- Flow 1:

Average throughput: 304.53 Mbit/s

95th percentile per-packet one-way delay: 0.894 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-07-12 10:57:05

End at: 2019-07-12 10:57:35

Local clock offset: 6.11 ms

Remote clock offset: 1.562 ms

Below is generated by plot.py at 2019-07-12 13:56:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 330.34 Mbit/s

95th percentile per-packet one-way delay: 0.836 ms

Loss rate: 0.01%

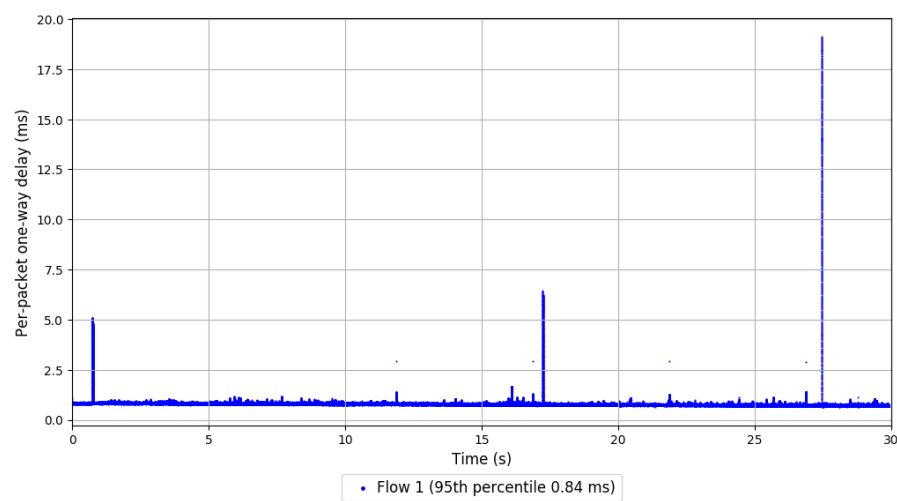
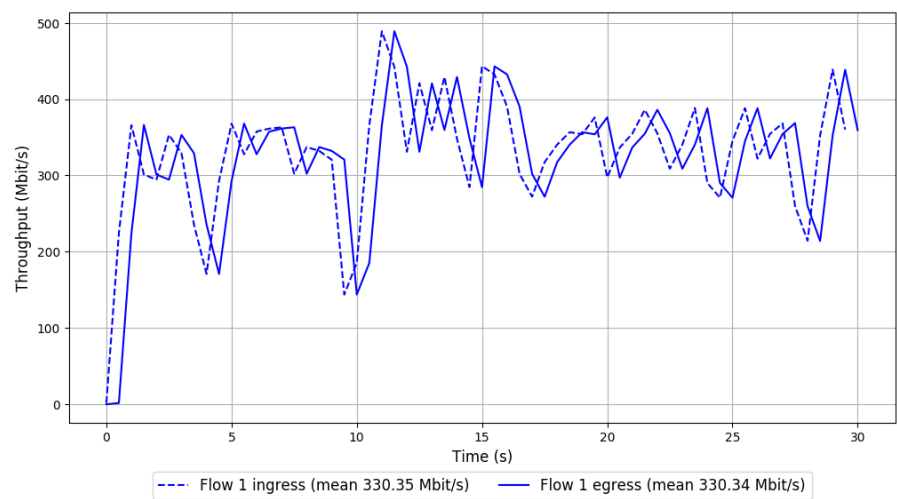
-- Flow 1:

Average throughput: 330.34 Mbit/s

95th percentile per-packet one-way delay: 0.836 ms

Loss rate: 0.01%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-07-12 11:30:38

End at: 2019-07-12 11:31:08

Local clock offset: 4.766 ms

Remote clock offset: -0.804 ms

Below is generated by plot.py at 2019-07-12 13:56:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 299.70 Mbit/s

95th percentile per-packet one-way delay: 0.995 ms

Loss rate: 0.01%

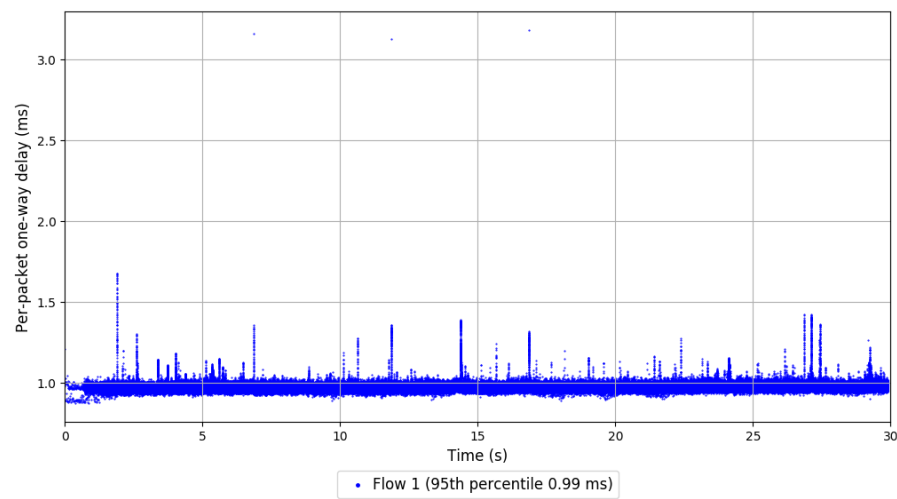
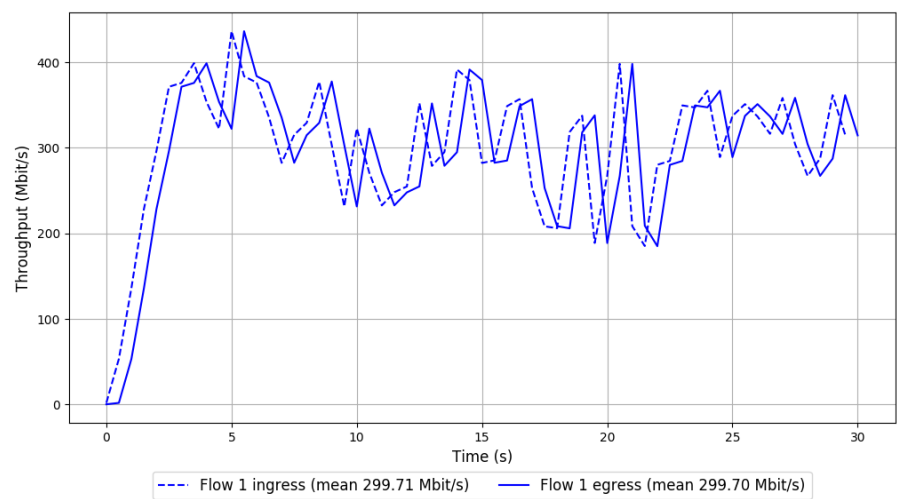
-- Flow 1:

Average throughput: 299.70 Mbit/s

95th percentile per-packet one-way delay: 0.995 ms

Loss rate: 0.01%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-07-12 12:04:07

End at: 2019-07-12 12:04:37

Local clock offset: 5.037 ms

Remote clock offset: 0.817 ms

Below is generated by plot.py at 2019-07-12 13:56:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 322.19 Mbit/s

95th percentile per-packet one-way delay: 1.114 ms

Loss rate: 0.01%

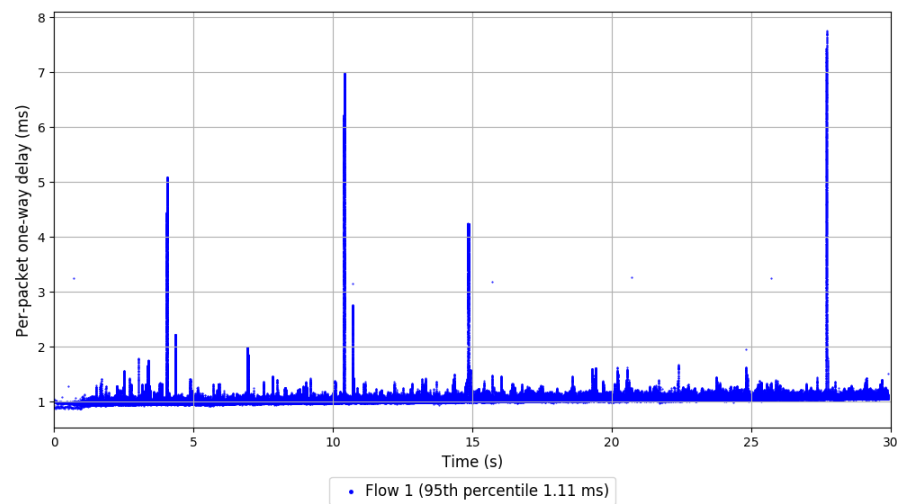
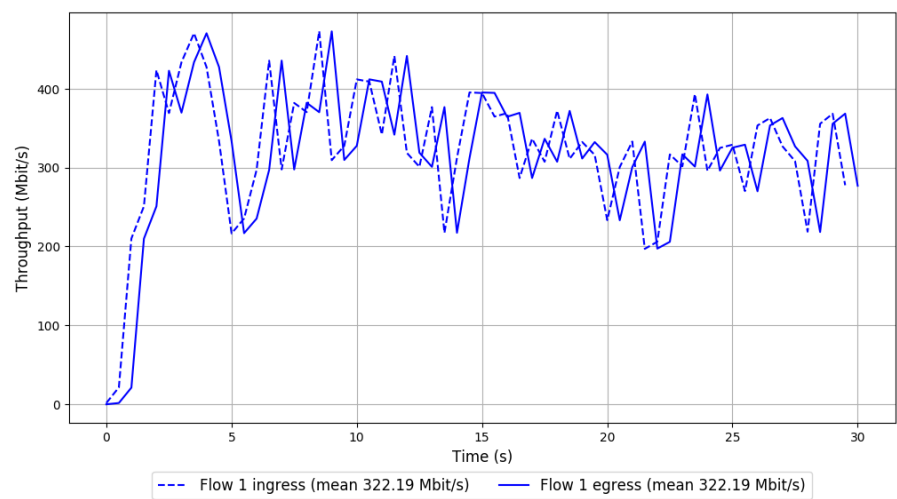
-- Flow 1:

Average throughput: 322.19 Mbit/s

95th percentile per-packet one-way delay: 1.114 ms

Loss rate: 0.01%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-07-12 12:37:39

End at: 2019-07-12 12:38:09

Local clock offset: 5.229 ms

Remote clock offset: 3.69 ms

Below is generated by plot.py at 2019-07-12 13:56:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 323.81 Mbit/s

95th percentile per-packet one-way delay: 0.896 ms

Loss rate: 0.00%

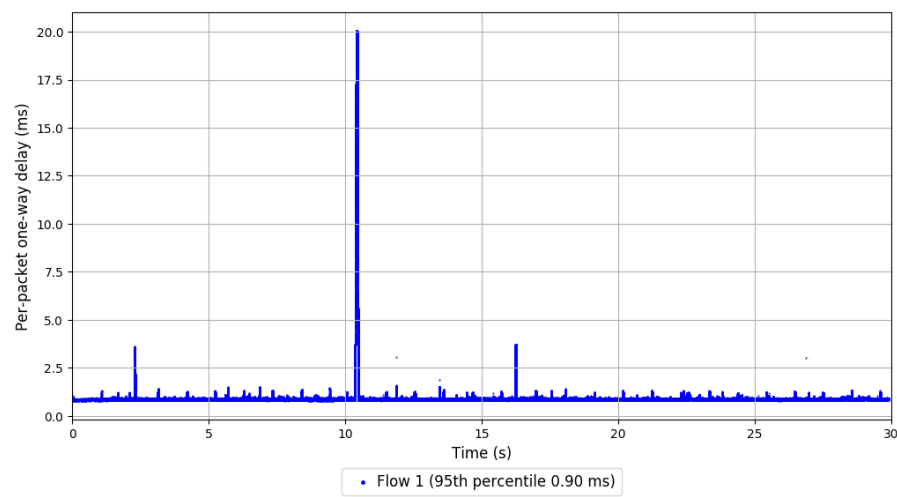
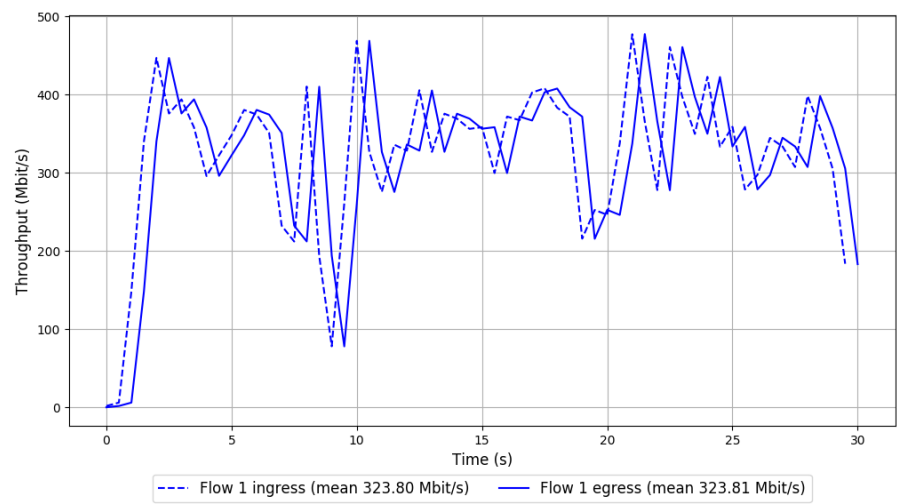
-- Flow 1:

Average throughput: 323.81 Mbit/s

95th percentile per-packet one-way delay: 0.896 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-07-12 10:27:52

End at: 2019-07-12 10:28:22

Local clock offset: 7.236 ms

Remote clock offset: 3.335 ms

Below is generated by plot.py at 2019-07-12 13:56:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.030 ms

Loss rate: 0.00%

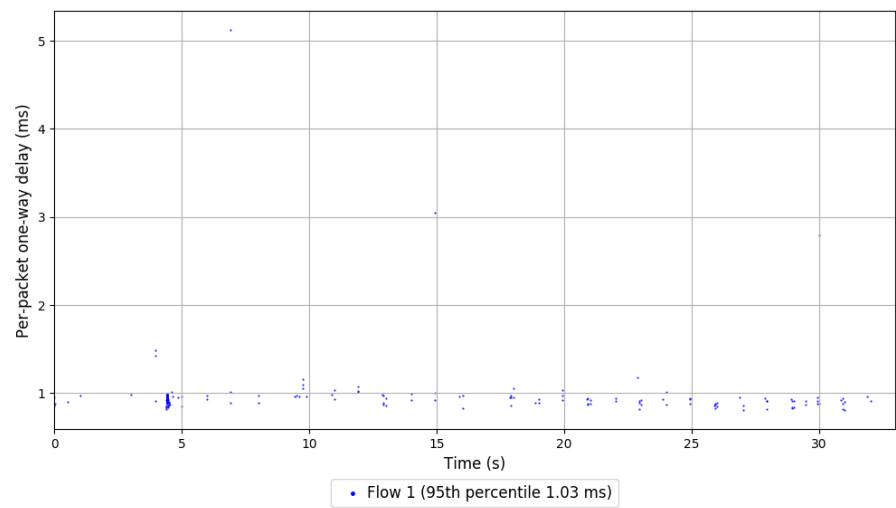
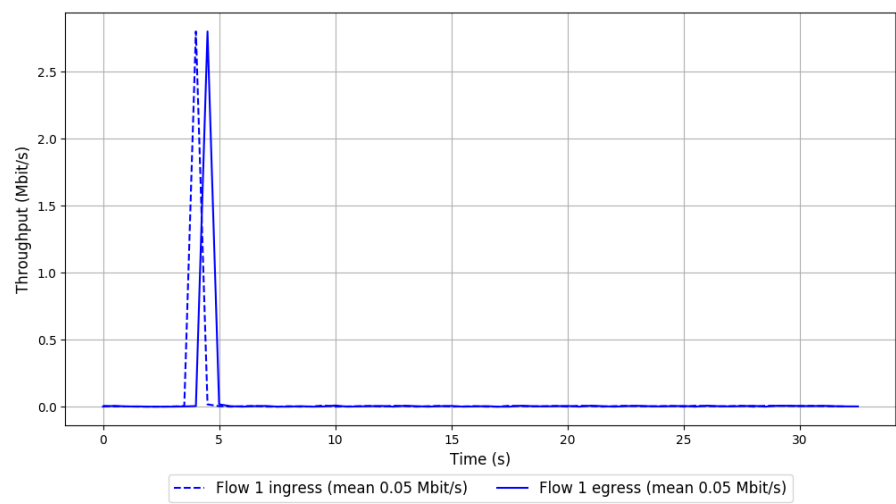
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.030 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-07-12 11:01:06

End at: 2019-07-12 11:01:36

Local clock offset: 5.816 ms

Remote clock offset: 0.676 ms

Below is generated by plot.py at 2019-07-12 13:56:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.044 ms

Loss rate: 0.00%

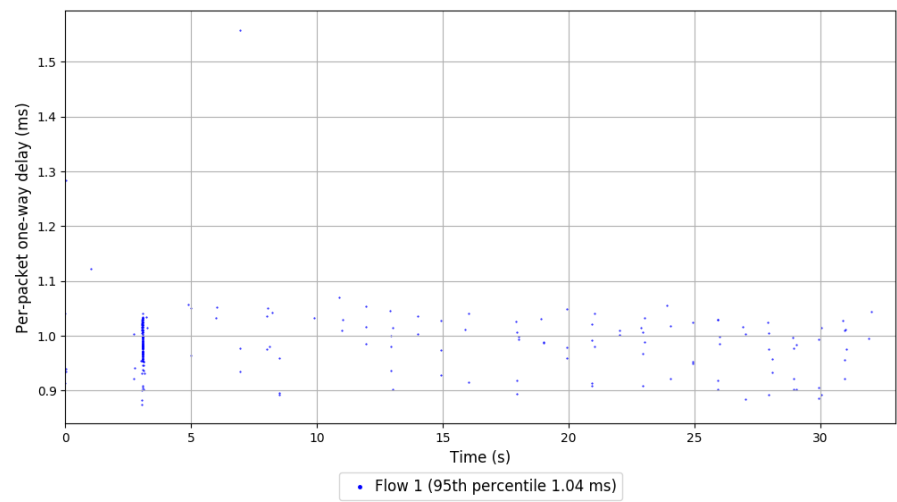
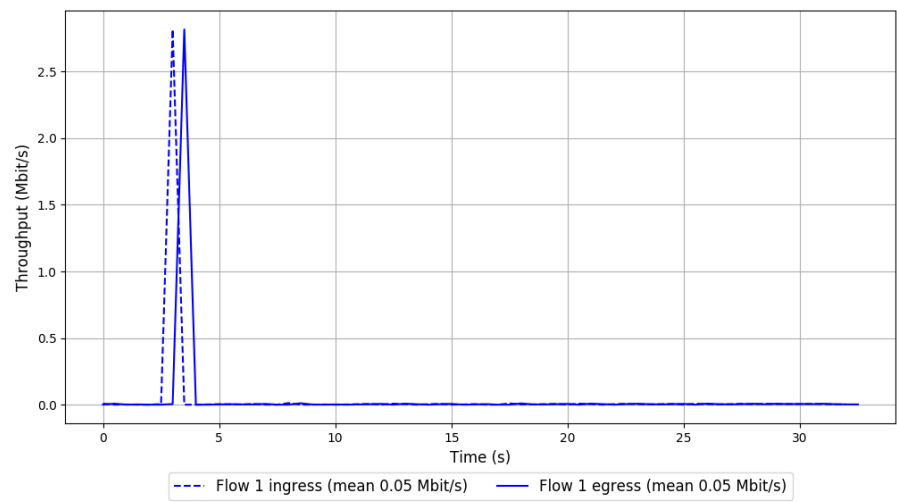
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.044 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

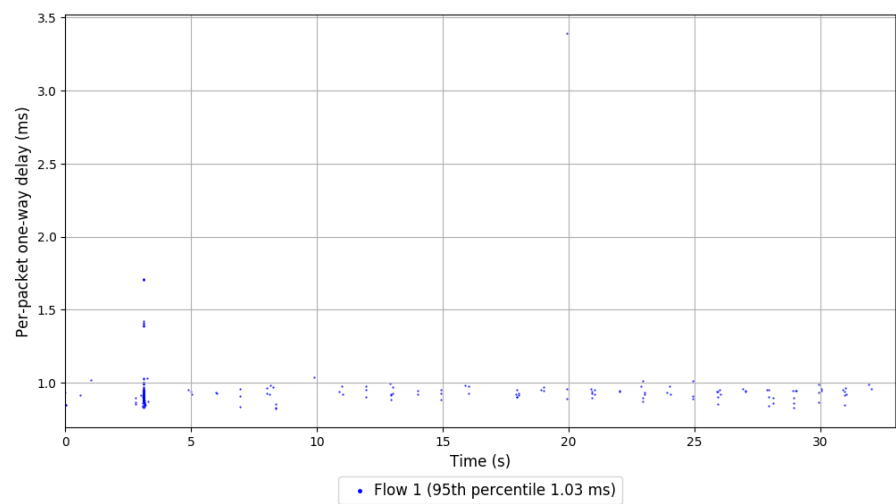
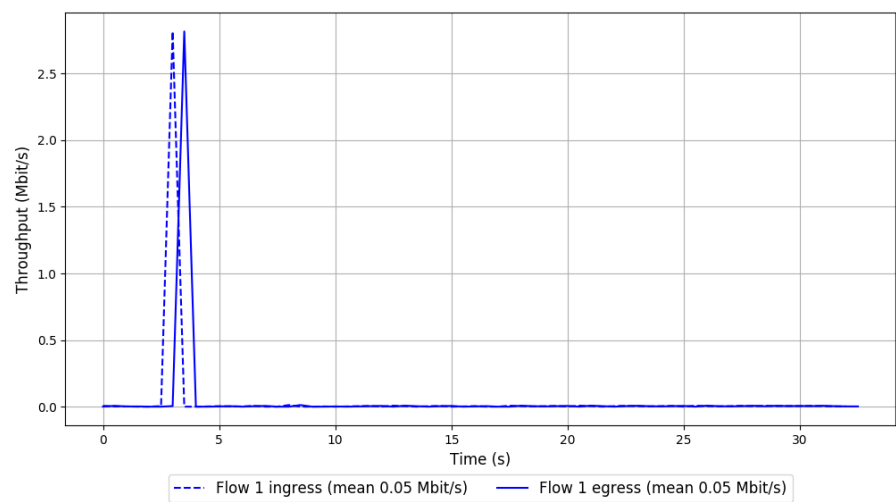


Run 3: Statistics of WebRTC media

Start at: 2019-07-12 11:34:38
End at: 2019-07-12 11:35:08
Local clock offset: 4.825 ms
Remote clock offset: -0.601 ms

Below is generated by plot.py at 2019-07-12 13:56:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.032 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.032 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-07-12 12:08:09

End at: 2019-07-12 12:08:39

Local clock offset: 5.045 ms

Remote clock offset: 1.708 ms

Below is generated by plot.py at 2019-07-12 13:56:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.025 ms

Loss rate: 0.05%

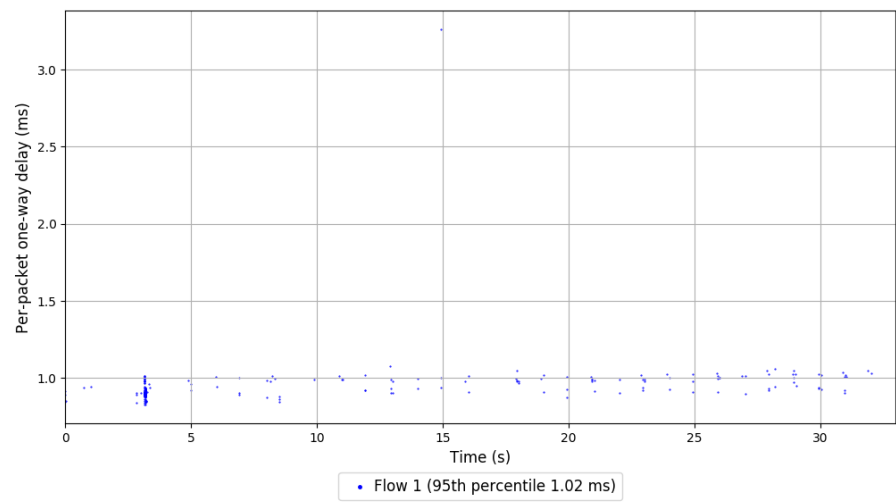
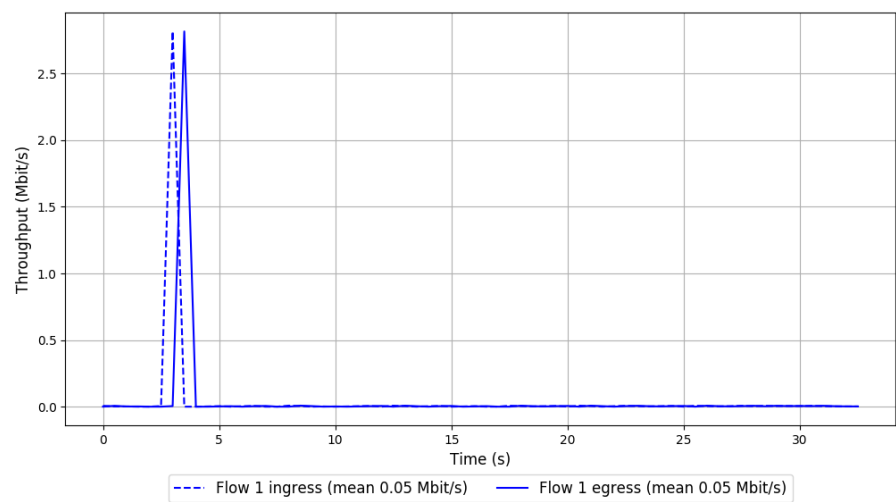
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.025 ms

Loss rate: 0.05%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-07-12 12:41:45

End at: 2019-07-12 12:42:15

Local clock offset: 5.241 ms

Remote clock offset: 3.831 ms

Below is generated by plot.py at 2019-07-12 13:56:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

