

Pantheon Report

Generated at 2019-09-18 18:16:55 (UTC).

Data path: India on em1 (*remote*) → AWS India 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 `nets.org.sg` and have been applied to correct the timestamps in logs.

System info:

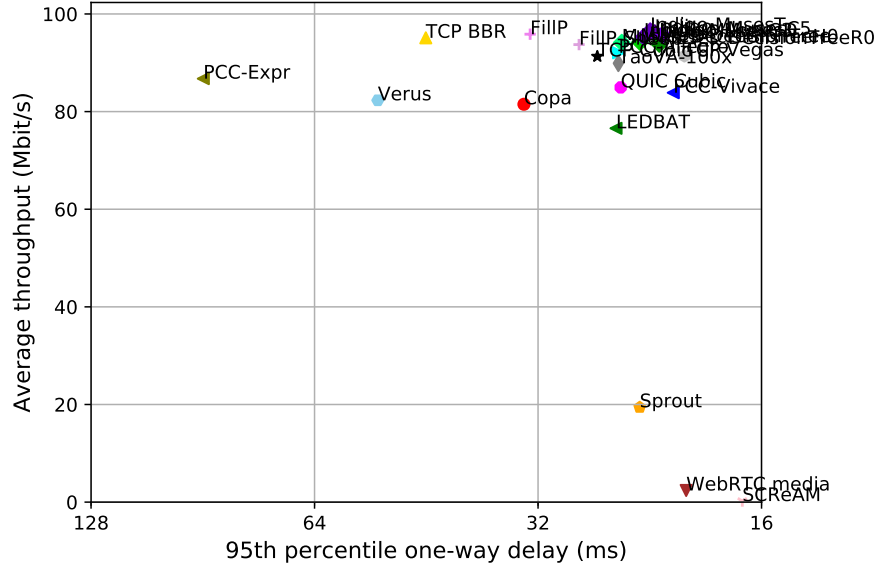
```
Linux 4.15.0-1045-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

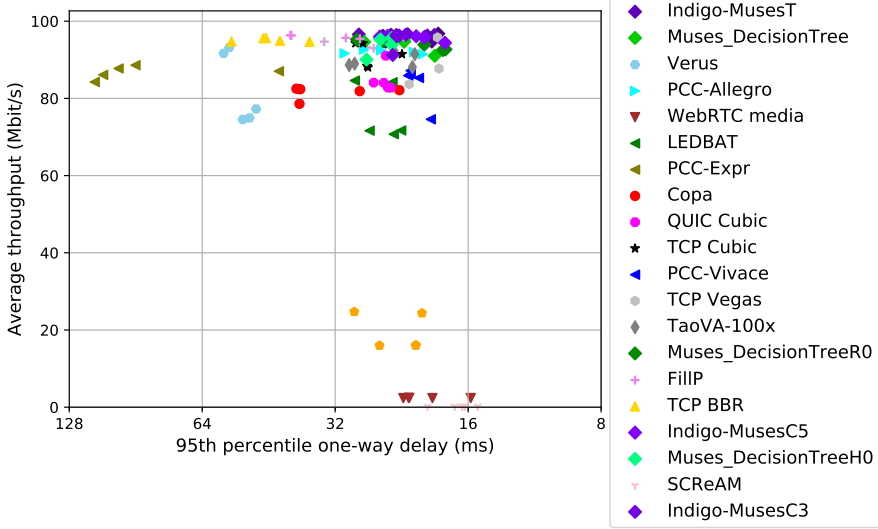
```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
```

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

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



test from India to AWS India 1, 5 runs of 30s each per scheme



| scheme | # runs | mean avg tput (Mbit/s) | mean 95th-%ile delay (ms) | mean loss rate (%) |
|----------------------|--------|------------------------|---------------------------|--------------------|
| | | flow 1 | flow 1 | flow 1 |
| TCP BBR | 5 | 95.11 | 45.33 | 1.22 |
| Copa | 5 | 81.50 | 33.43 | 0.16 |
| TCP Cubic | 5 | 91.30 | 26.63 | 0.14 |
| FillP | 5 | 95.86 | 32.79 | 0.27 |
| FillP-Sheep | 5 | 93.73 | 28.18 | 0.16 |
| Indigo | 5 | 96.09 | 22.29 | 0.18 |
| Indigo-MusesC3 | 5 | 95.32 | 23.05 | 0.15 |
| Indigo-MusesC5 | 5 | 95.71 | 21.76 | 0.17 |
| Indigo-MusesD | 5 | 95.39 | 21.98 | 0.16 |
| Indigo-MusesT | 5 | 96.47 | 22.60 | 0.16 |
| LEDBAT | 5 | 76.57 | 25.13 | 0.20 |
| Muses_DecisionTree | 5 | 94.23 | 23.32 | 0.16 |
| Muses_DecisionTreeH0 | 5 | 94.13 | 24.68 | 0.21 |
| Muses_DecisionTreeR0 | 5 | 93.86 | 21.97 | 0.14 |
| PCC-Allegro | 5 | 92.04 | 24.93 | 0.16 |
| PCC-Expr | 5 | 86.75 | 90.37 | 0.22 |
| QUIC Cubic | 5 | 84.96 | 24.77 | 0.20 |
| SCReAM | 5 | 0.22 | 16.98 | 0.18 |
| Sprout | 5 | 19.43 | 23.35 | 0.14 |
| TaoVA-100x | 5 | 89.90 | 24.95 | 0.15 |
| TCP Vegas | 5 | 91.38 | 20.33 | 0.15 |
| Verus | 5 | 82.31 | 52.60 | 0.29 |
| PCC-Vivace | 5 | 83.87 | 21.04 | 0.98 |
| WebRTC media | 5 | 2.38 | 20.21 | 0.16 |

Run 1: Statistics of TCP BBR

Start at: 2019-09-18 15:52:02

End at: 2019-09-18 15:52:32

Local clock offset: 2.257 ms

Remote clock offset: 4.653 ms

Below is generated by plot.py at 2019-09-18 18:01:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.65 Mbit/s

95th percentile per-packet one-way delay: 45.930 ms

Loss rate: 1.72%

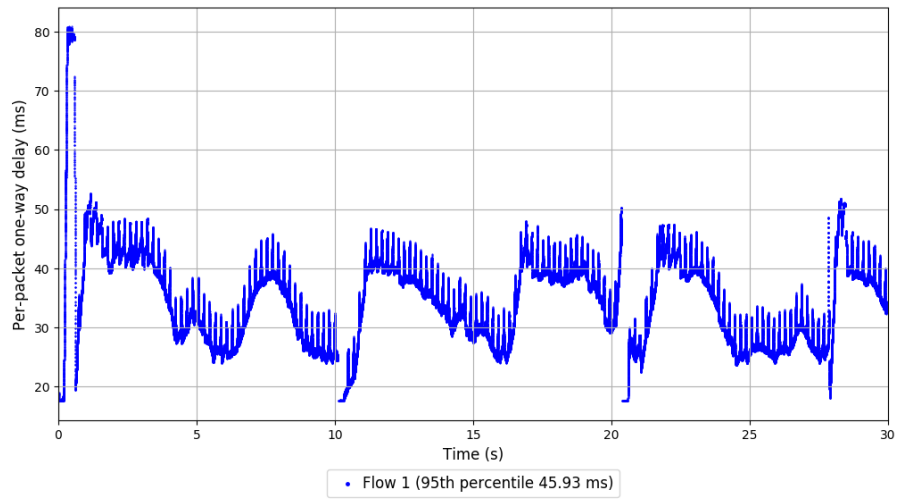
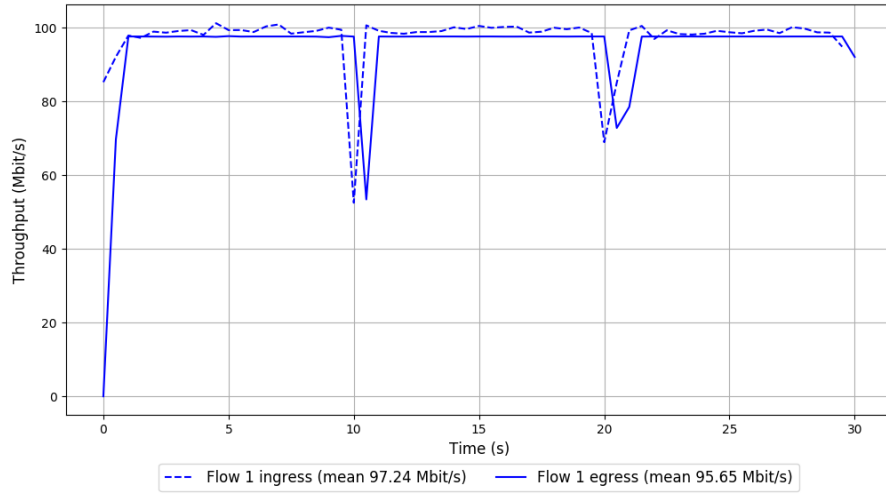
-- Flow 1:

Average throughput: 95.65 Mbit/s

95th percentile per-packet one-way delay: 45.930 ms

Loss rate: 1.72%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-09-18 16:22:09

End at: 2019-09-18 16:22:39

Local clock offset: 5.599 ms

Remote clock offset: 6.662 ms

Below is generated by plot.py at 2019-09-18 18:01:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.60 Mbit/s

95th percentile per-packet one-way delay: 46.507 ms

Loss rate: 1.84%

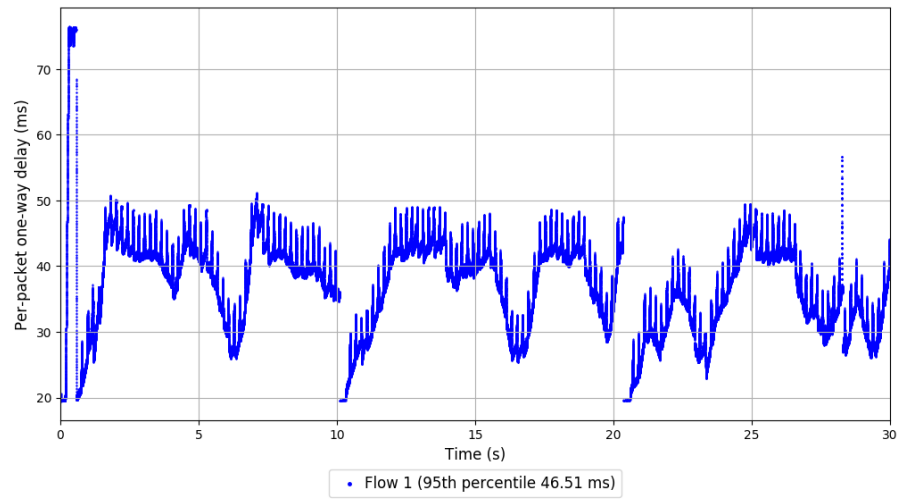
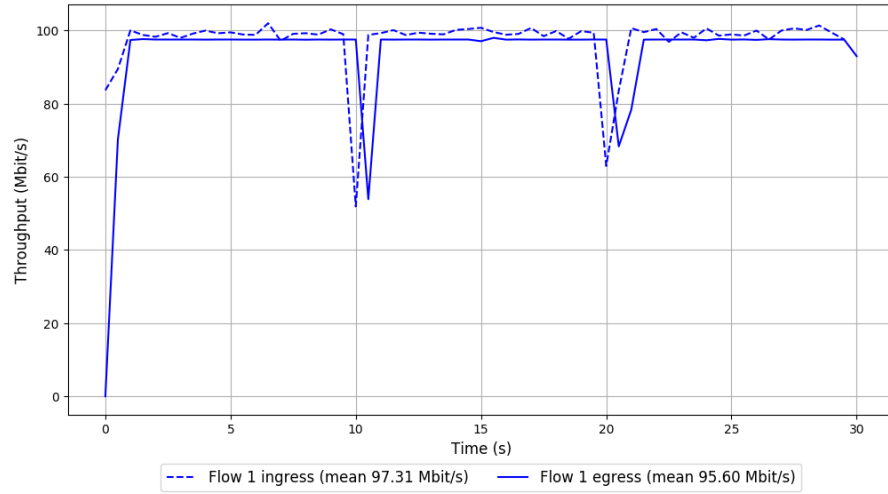
-- Flow 1:

Average throughput: 95.60 Mbit/s

95th percentile per-packet one-way delay: 46.507 ms

Loss rate: 1.84%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-09-18 16:51:41

End at: 2019-09-18 16:52:11

Local clock offset: 1.587 ms

Remote clock offset: 6.041 ms

Below is generated by plot.py at 2019-09-18 18:01:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.67 Mbit/s

95th percentile per-packet one-way delay: 36.563 ms

Loss rate: 0.86%

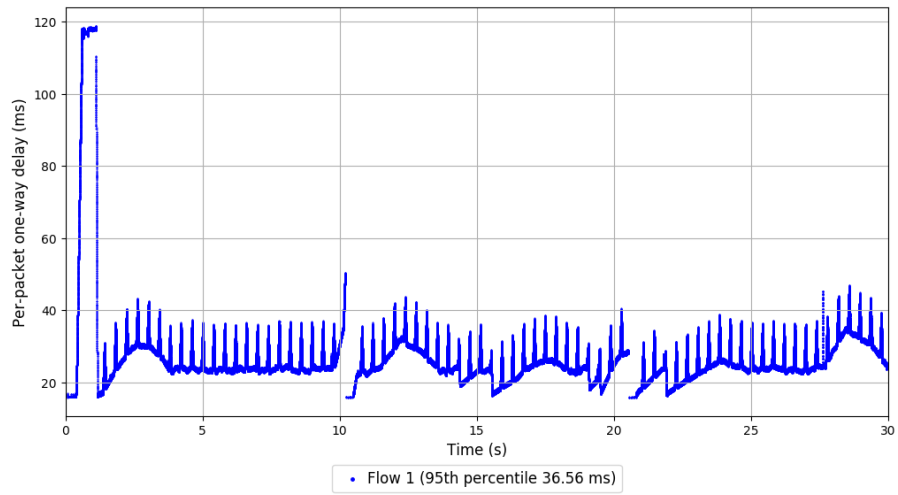
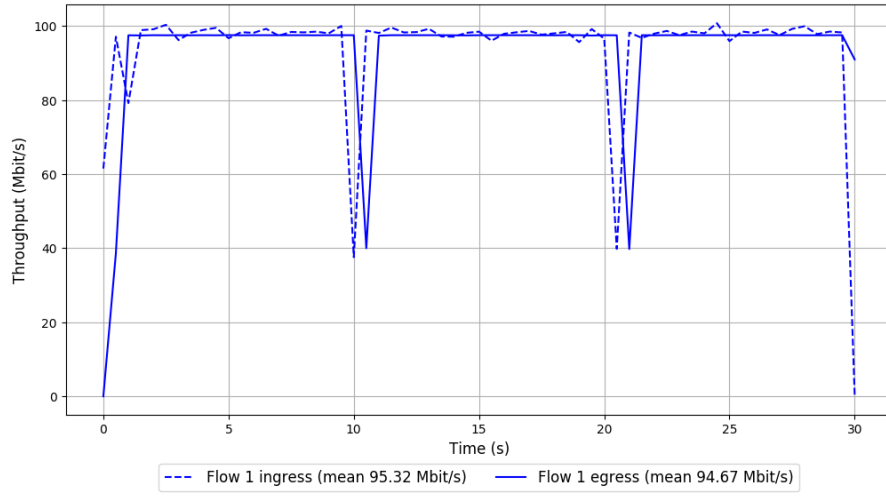
-- Flow 1:

Average throughput: 94.67 Mbit/s

95th percentile per-packet one-way delay: 36.563 ms

Loss rate: 0.86%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-09-18 17:20:42

End at: 2019-09-18 17:21:12

Local clock offset: -1.269 ms

Remote clock offset: 1.906 ms

Below is generated by plot.py at 2019-09-18 18:01:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.74 Mbit/s

95th percentile per-packet one-way delay: 54.949 ms

Loss rate: 0.94%

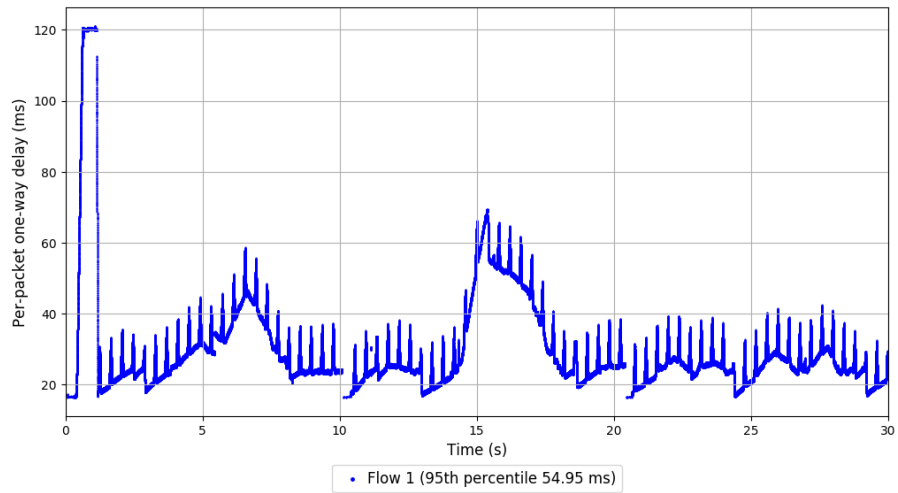
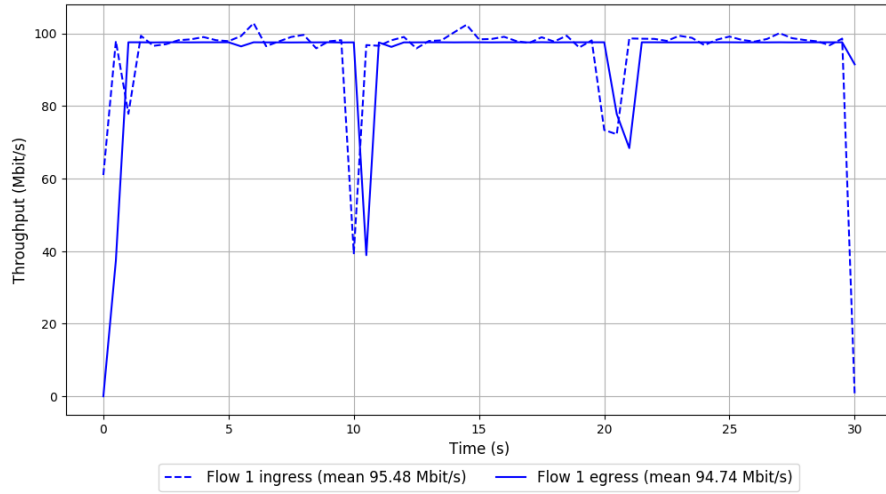
-- Flow 1:

Average throughput: 94.74 Mbit/s

95th percentile per-packet one-way delay: 54.949 ms

Loss rate: 0.94%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-09-18 17:49:48

End at: 2019-09-18 17:50:18

Local clock offset: 3.673 ms

Remote clock offset: -1.203 ms

Below is generated by plot.py at 2019-09-18 18:01:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.90 Mbit/s

95th percentile per-packet one-way delay: 42.682 ms

Loss rate: 0.74%

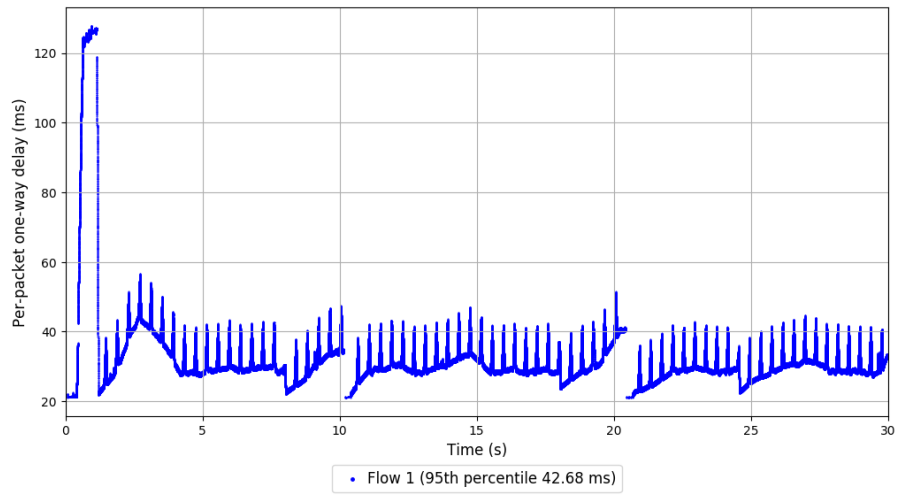
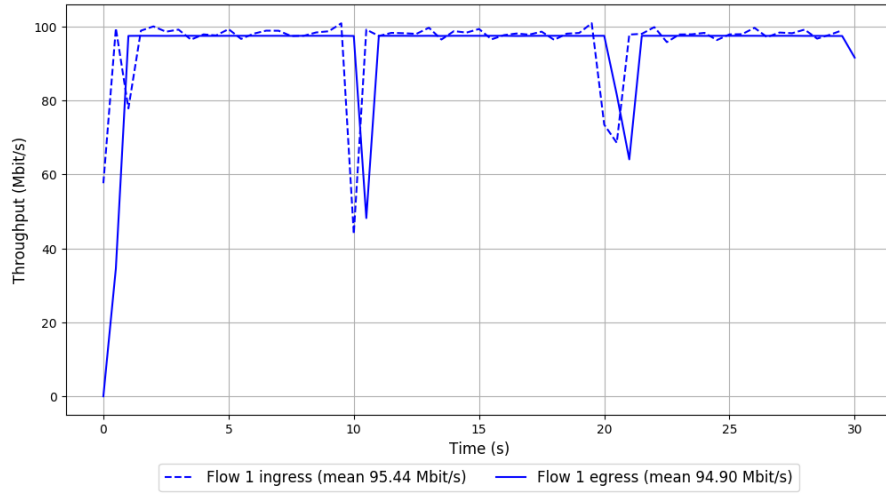
-- Flow 1:

Average throughput: 94.90 Mbit/s

95th percentile per-packet one-way delay: 42.682 ms

Loss rate: 0.74%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-09-18 15:50:49

End at: 2019-09-18 15:51:19

Local clock offset: 5.822 ms

Remote clock offset: 4.788 ms

Below is generated by plot.py at 2019-09-18 18:01:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.88 Mbit/s

95th percentile per-packet one-way delay: 28.156 ms

Loss rate: 0.09%

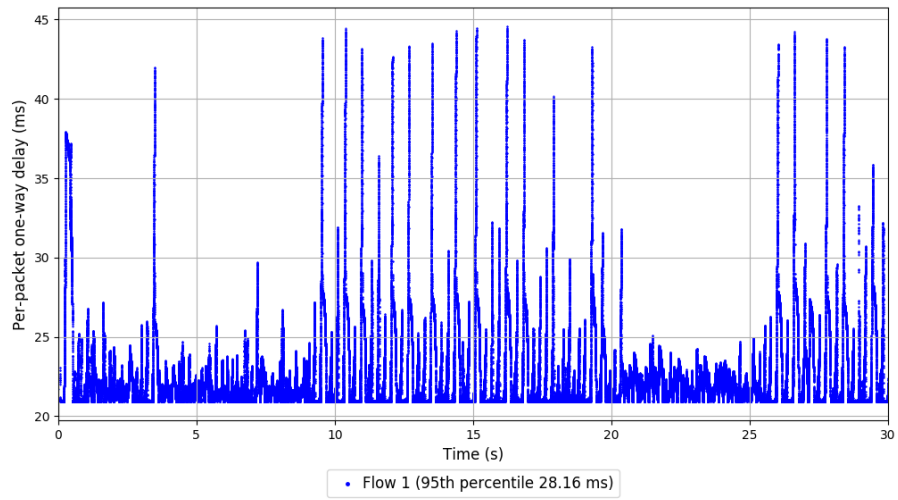
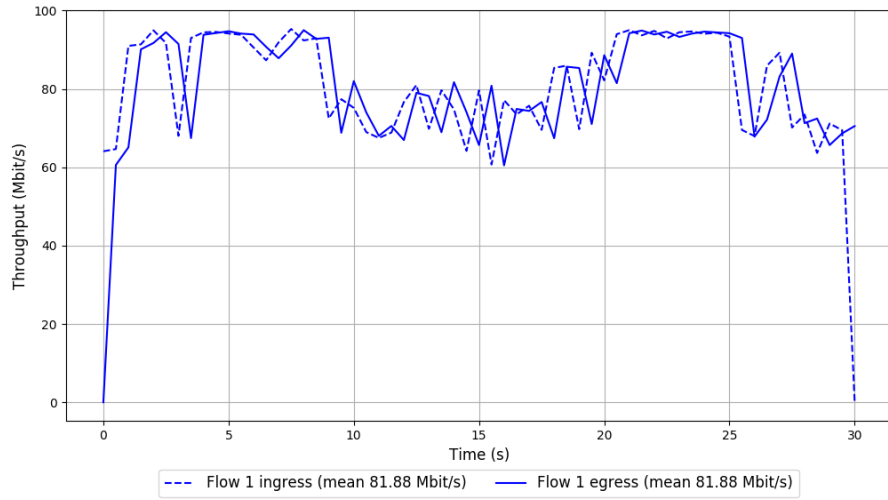
-- Flow 1:

Average throughput: 81.88 Mbit/s

95th percentile per-packet one-way delay: 28.156 ms

Loss rate: 0.09%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-09-18 16:20:46

End at: 2019-09-18 16:21:16

Local clock offset: 1.568 ms

Remote clock offset: 6.677 ms

Below is generated by plot.py at 2019-09-18 18:01:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.13 Mbit/s

95th percentile per-packet one-way delay: 22.895 ms

Loss rate: 0.10%

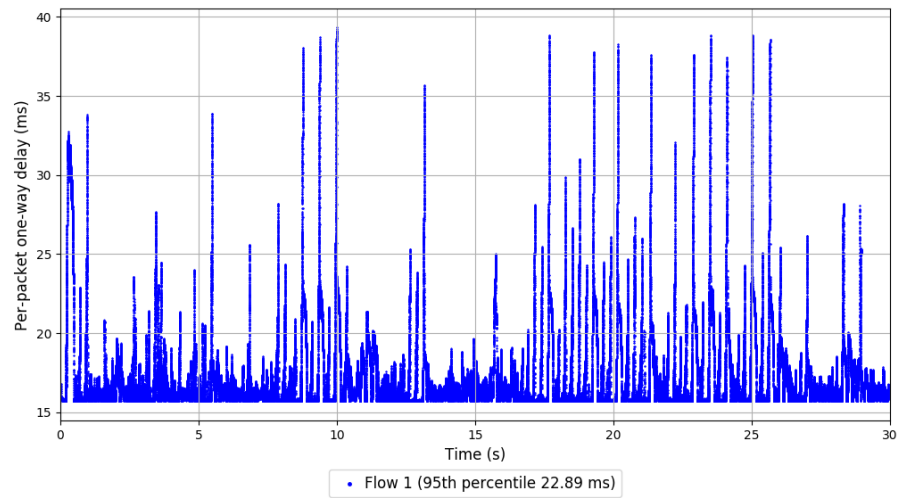
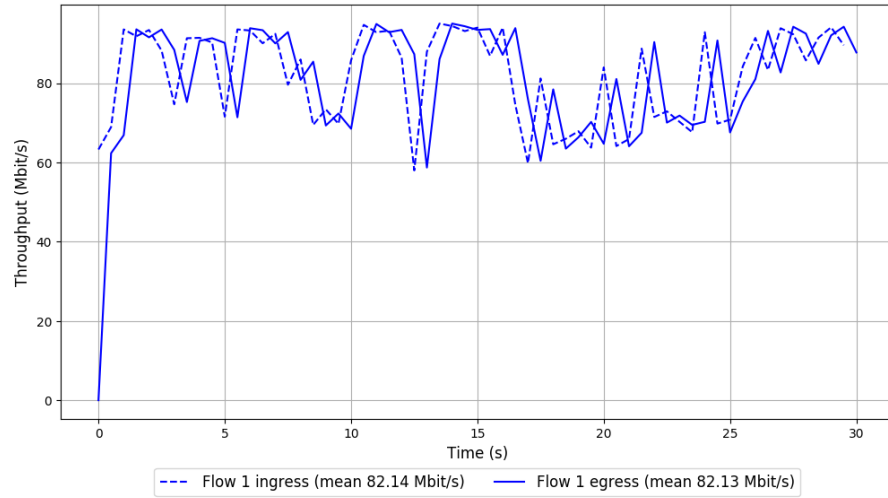
-- Flow 1:

Average throughput: 82.13 Mbit/s

95th percentile per-packet one-way delay: 22.895 ms

Loss rate: 0.10%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-09-18 16:50:27

End at: 2019-09-18 16:50:57

Local clock offset: 5.391 ms

Remote clock offset: 6.234 ms

Below is generated by plot.py at 2019-09-18 18:01:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.38 Mbit/s

95th percentile per-packet one-way delay: 38.398 ms

Loss rate: 0.22%

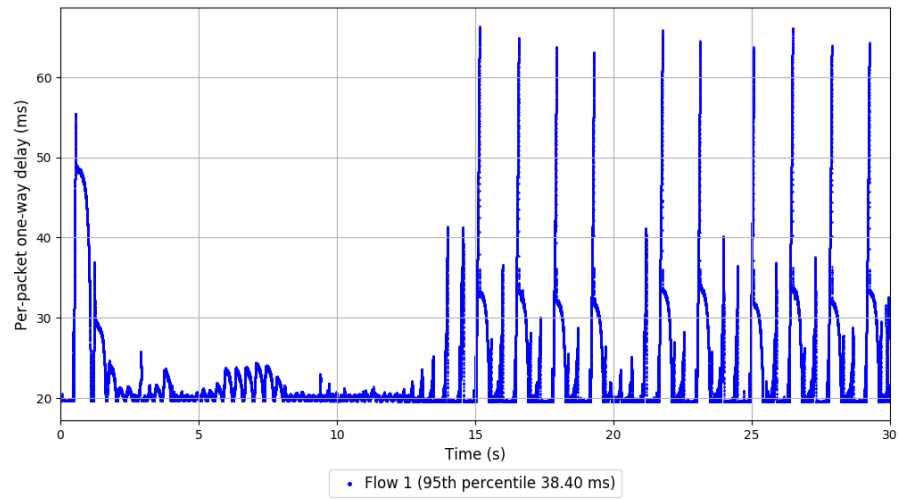
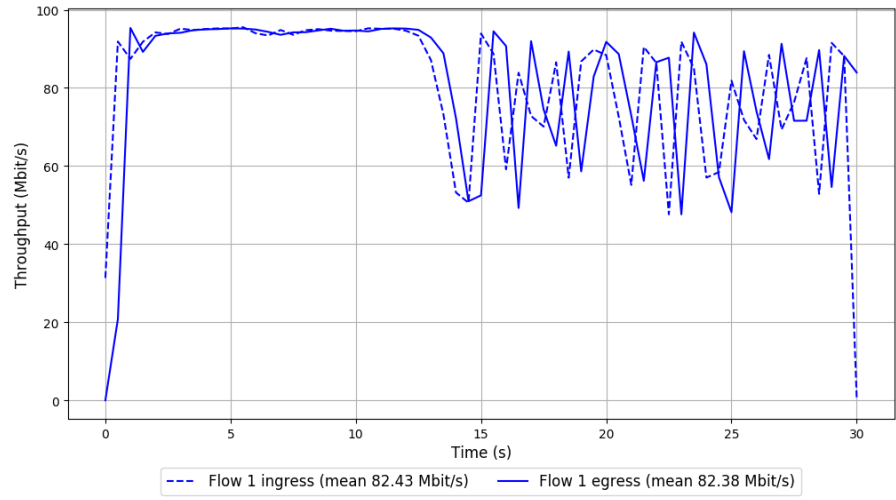
-- Flow 1:

Average throughput: 82.38 Mbit/s

95th percentile per-packet one-way delay: 38.398 ms

Loss rate: 0.22%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-09-18 17:19:27

End at: 2019-09-18 17:19:57

Local clock offset: -0.636 ms

Remote clock offset: 1.781 ms

Below is generated by plot.py at 2019-09-18 18:02:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.60 Mbit/s

95th percentile per-packet one-way delay: 38.551 ms

Loss rate: 0.15%

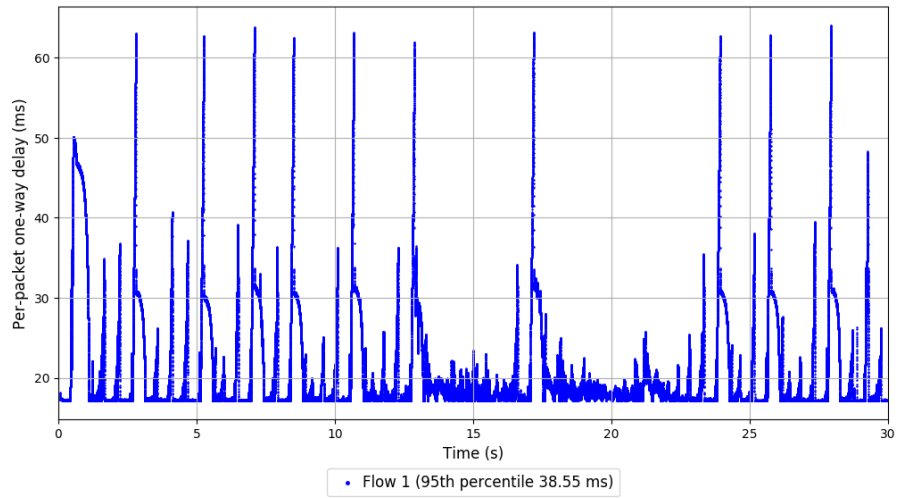
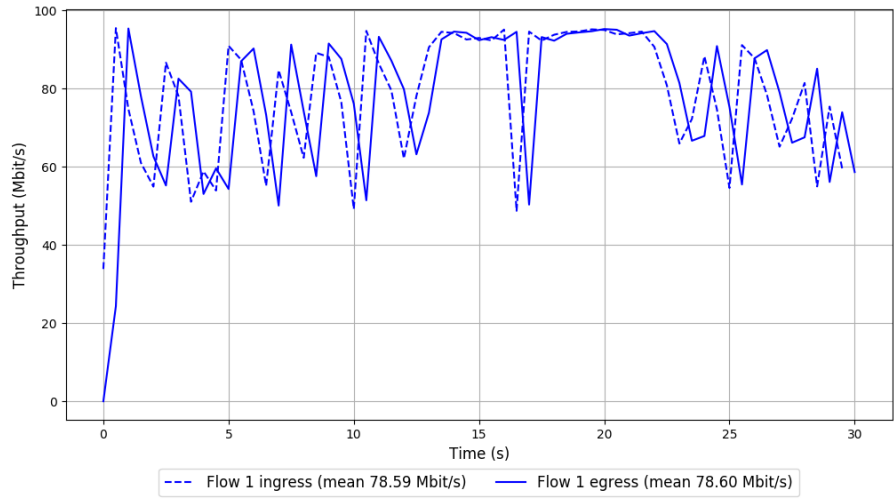
-- Flow 1:

Average throughput: 78.60 Mbit/s

95th percentile per-packet one-way delay: 38.551 ms

Loss rate: 0.15%

Run 4: Report of Copa — Data Link

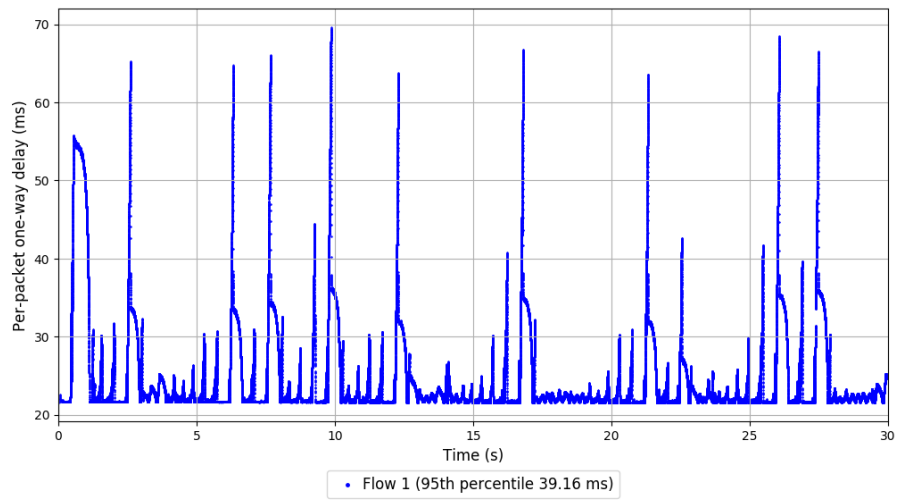
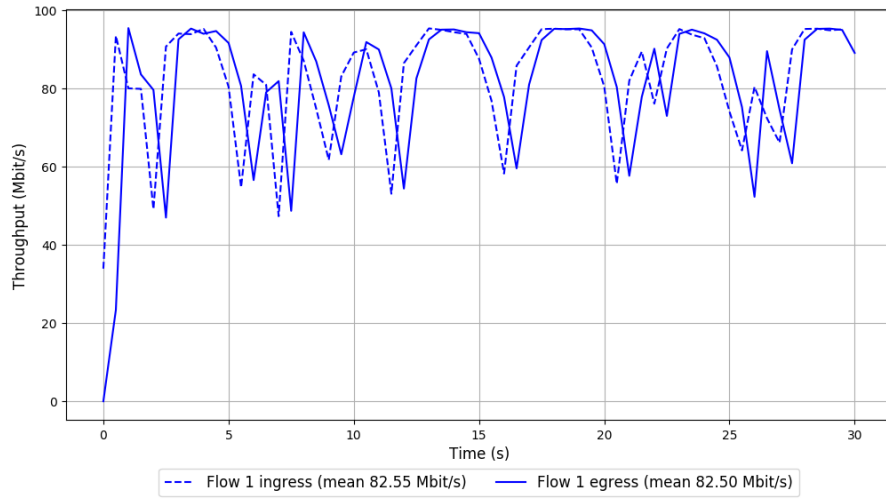


Run 5: Statistics of Copa

Start at: 2019-09-18 17:48:29
End at: 2019-09-18 17:48:59
Local clock offset: 3.728 ms
Remote clock offset: -1.558 ms

Below is generated by plot.py at 2019-09-18 18:03:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 82.50 Mbit/s
95th percentile per-packet one-way delay: 39.157 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 82.50 Mbit/s
95th percentile per-packet one-way delay: 39.157 ms
Loss rate: 0.22%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-09-18 15:47:08

End at: 2019-09-18 15:47:38

Local clock offset: 6.697 ms

Remote clock offset: 5.221 ms

Below is generated by plot.py at 2019-09-18 18:03:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.30 Mbit/s

95th percentile per-packet one-way delay: 28.785 ms

Loss rate: 0.09%

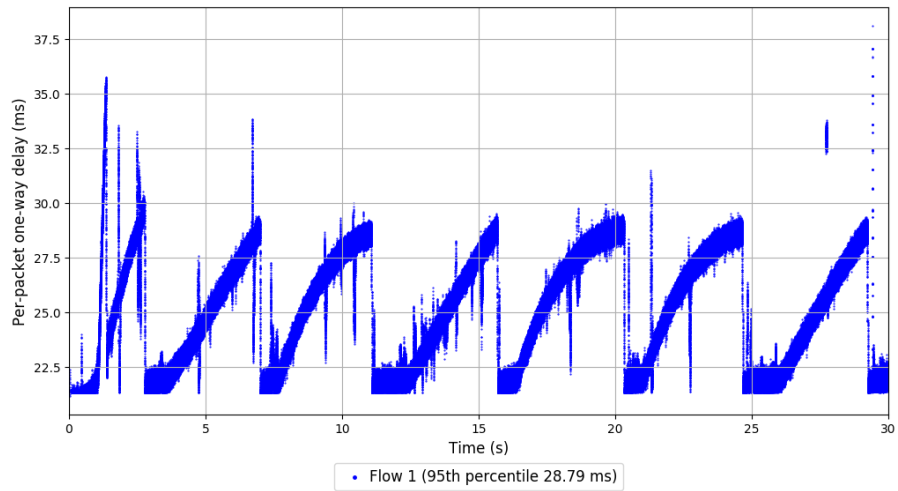
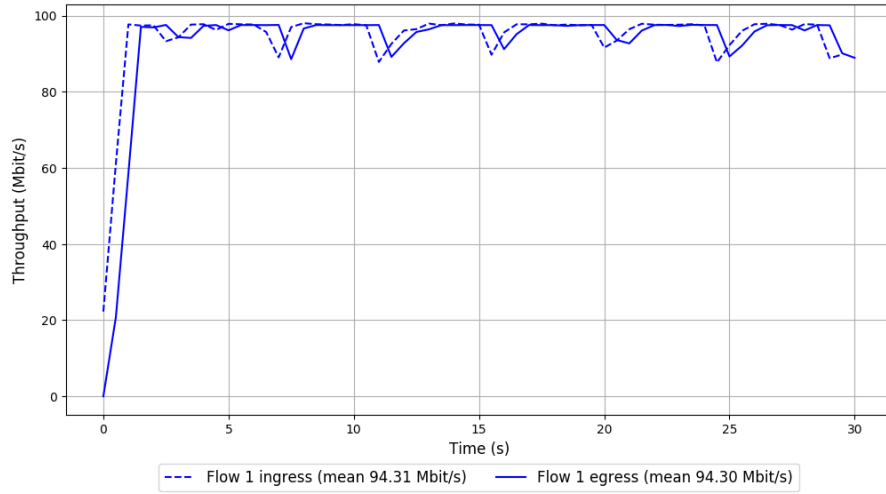
-- Flow 1:

Average throughput: 94.30 Mbit/s

95th percentile per-packet one-way delay: 28.785 ms

Loss rate: 0.09%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-09-18 16:16:59

End at: 2019-09-18 16:17:29

Local clock offset: 5.959 ms

Remote clock offset: 6.622 ms

Below is generated by plot.py at 2019-09-18 18:03:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.27 Mbit/s

95th percentile per-packet one-way delay: 27.690 ms

Loss rate: 0.09%

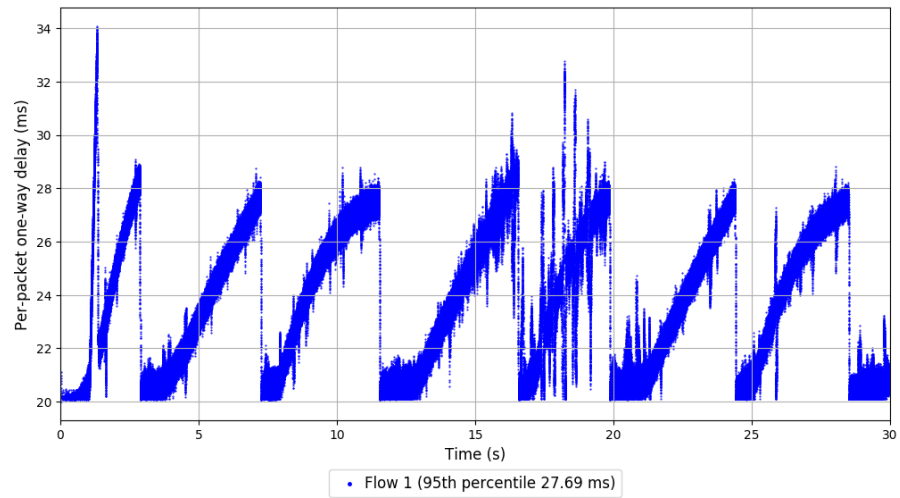
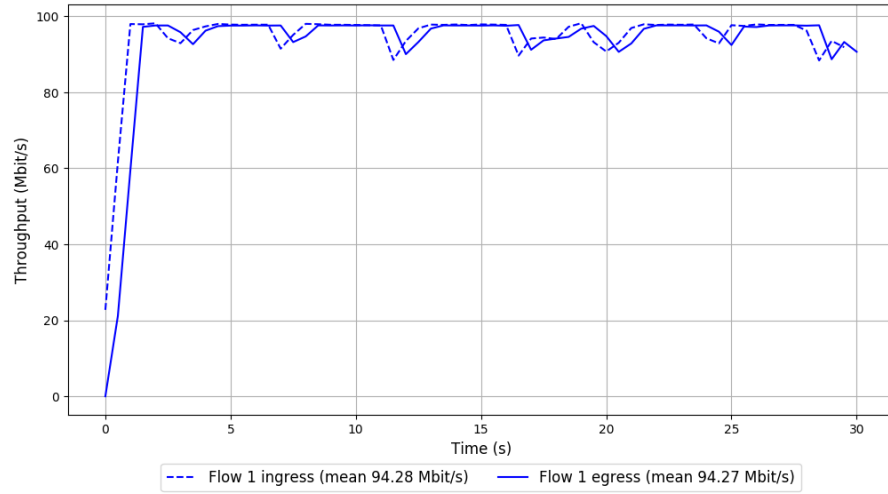
-- Flow 1:

Average throughput: 94.27 Mbit/s

95th percentile per-packet one-way delay: 27.690 ms

Loss rate: 0.09%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2019-09-18 16:46:55

End at: 2019-09-18 16:47:25

Local clock offset: 6.05 ms

Remote clock offset: 6.154 ms

Below is generated by plot.py at 2019-09-18 18:03:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.04 Mbit/s

95th percentile per-packet one-way delay: 26.969 ms

Loss rate: 0.19%

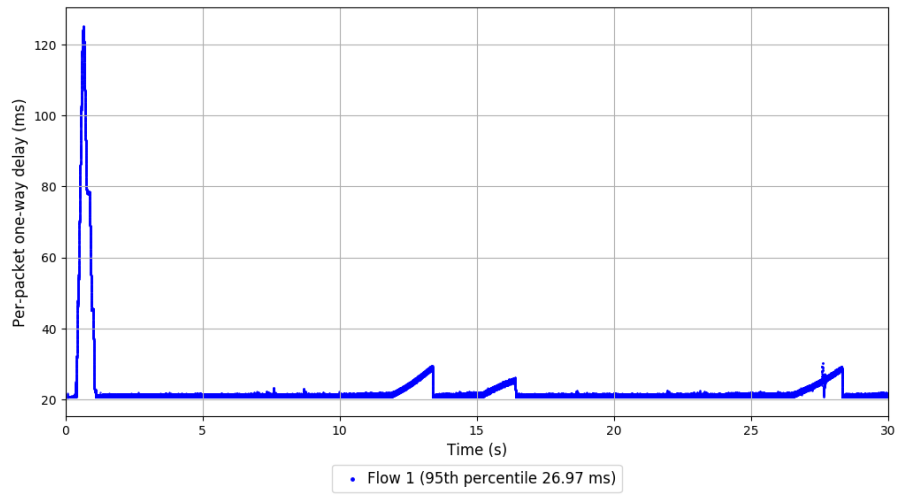
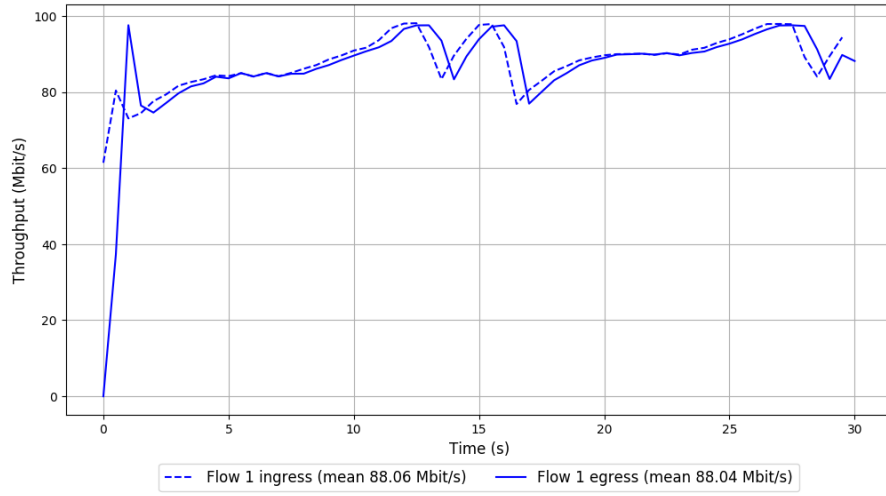
-- Flow 1:

Average throughput: 88.04 Mbit/s

95th percentile per-packet one-way delay: 26.969 ms

Loss rate: 0.19%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-09-18 17:15:45

End at: 2019-09-18 17:16:15

Local clock offset: -0.721 ms

Remote clock offset: 3.615 ms

Below is generated by plot.py at 2019-09-18 18:03:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.47 Mbit/s

95th percentile per-packet one-way delay: 22.590 ms

Loss rate: 0.18%

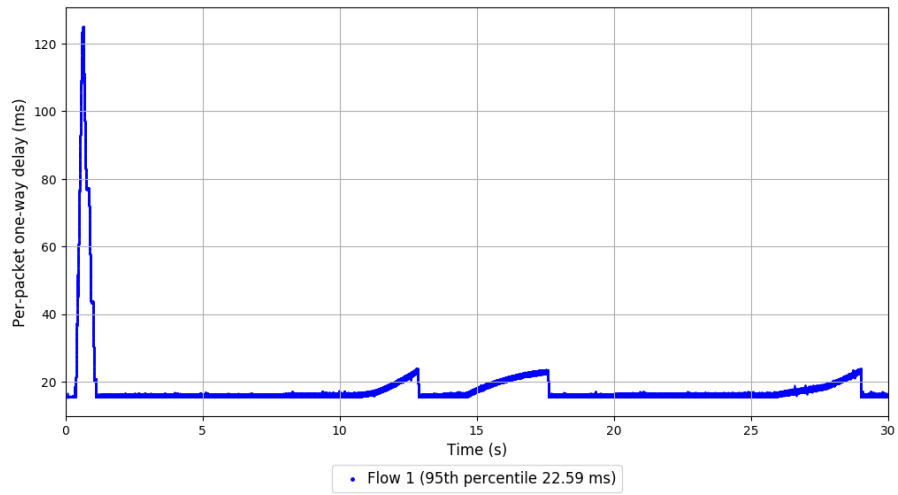
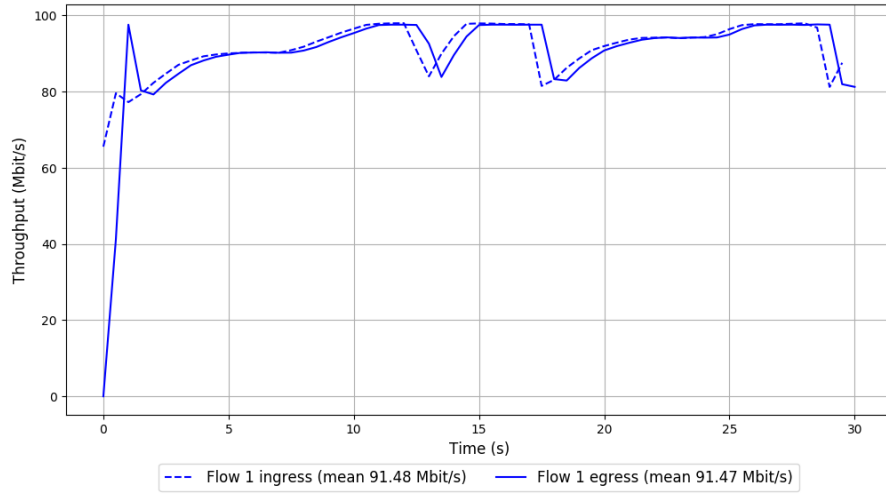
-- Flow 1:

Average throughput: 91.47 Mbit/s

95th percentile per-packet one-way delay: 22.590 ms

Loss rate: 0.18%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-09-18 17:44:54

End at: 2019-09-18 17:45:24

Local clock offset: 3.315 ms

Remote clock offset: -0.347 ms

Below is generated by plot.py at 2019-09-18 18:03:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.41 Mbit/s

95th percentile per-packet one-way delay: 27.101 ms

Loss rate: 0.17%

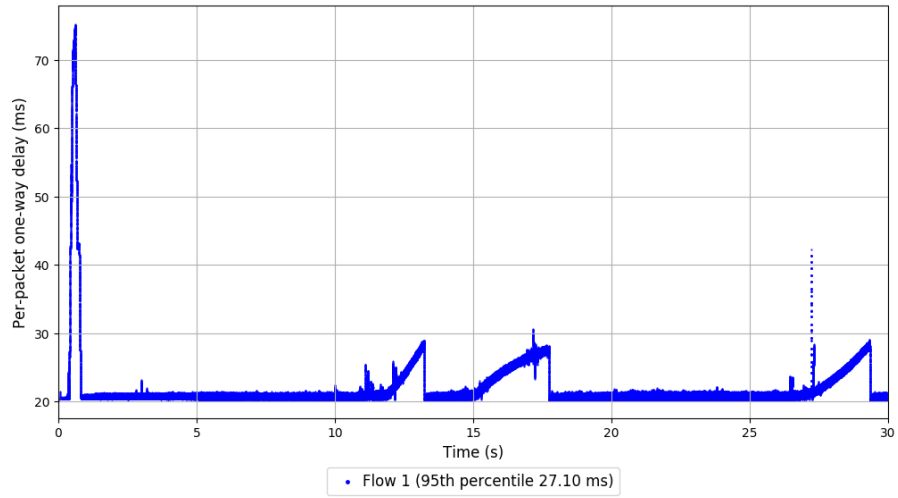
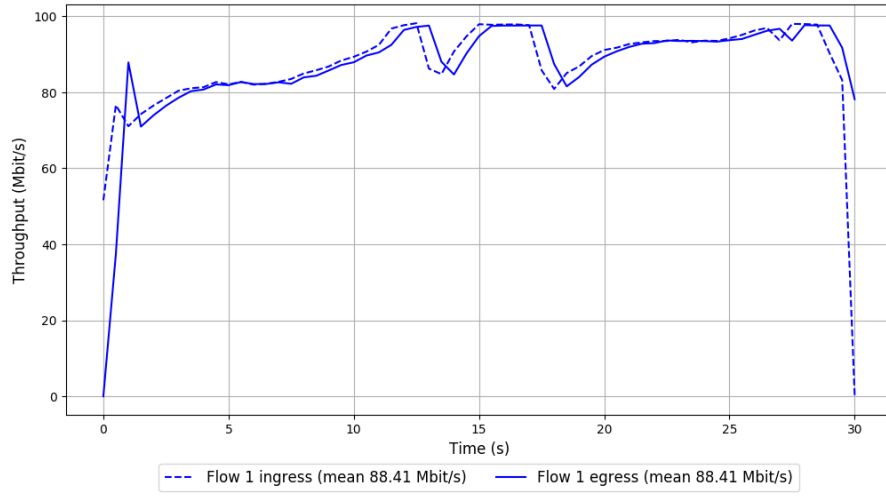
-- Flow 1:

Average throughput: 88.41 Mbit/s

95th percentile per-packet one-way delay: 27.101 ms

Loss rate: 0.17%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-09-18 15:30:09

End at: 2019-09-18 15:30:39

Local clock offset: 1.848 ms

Remote clock offset: 5.226 ms

Below is generated by plot.py at 2019-09-18 18:03:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.39 Mbit/s

95th percentile per-packet one-way delay: 40.426 ms

Loss rate: 0.43%

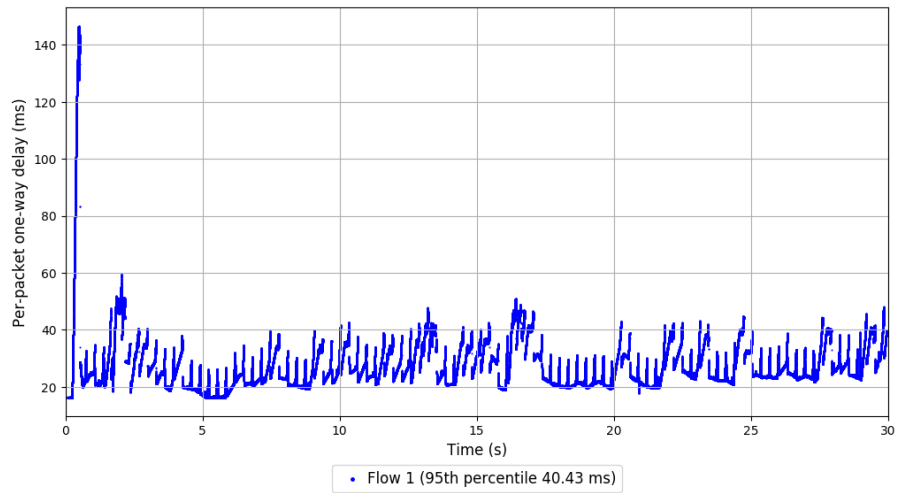
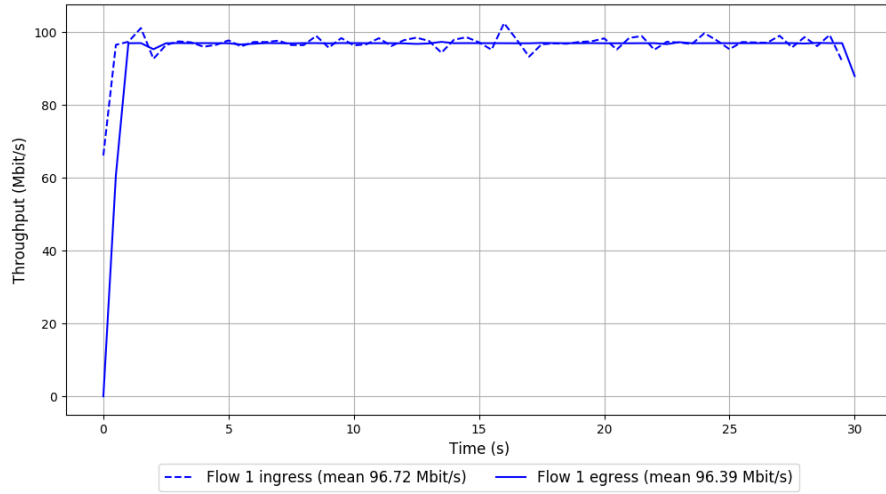
-- Flow 1:

Average throughput: 96.39 Mbit/s

95th percentile per-packet one-way delay: 40.426 ms

Loss rate: 0.43%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-09-18 16:00:54

End at: 2019-09-18 16:01:24

Local clock offset: 1.971 ms

Remote clock offset: 5.262 ms

Below is generated by plot.py at 2019-09-18 18:03:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.29 Mbit/s

95th percentile per-packet one-way delay: 40.206 ms

Loss rate: 0.28%

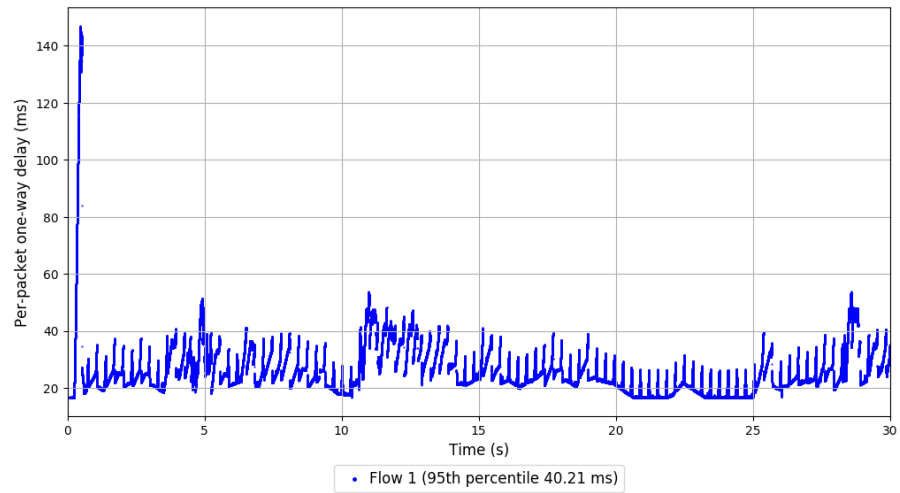
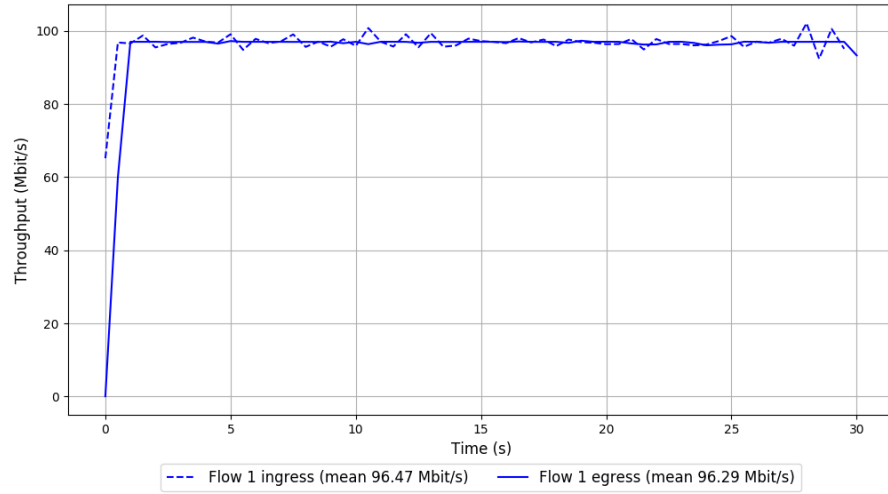
-- Flow 1:

Average throughput: 96.29 Mbit/s

95th percentile per-packet one-way delay: 40.206 ms

Loss rate: 0.28%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-09-18 16:31:23

End at: 2019-09-18 16:31:53

Local clock offset: 1.393 ms

Remote clock offset: 5.346 ms

Below is generated by plot.py at 2019-09-18 18:03:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.69 Mbit/s

95th percentile per-packet one-way delay: 30.276 ms

Loss rate: 0.19%

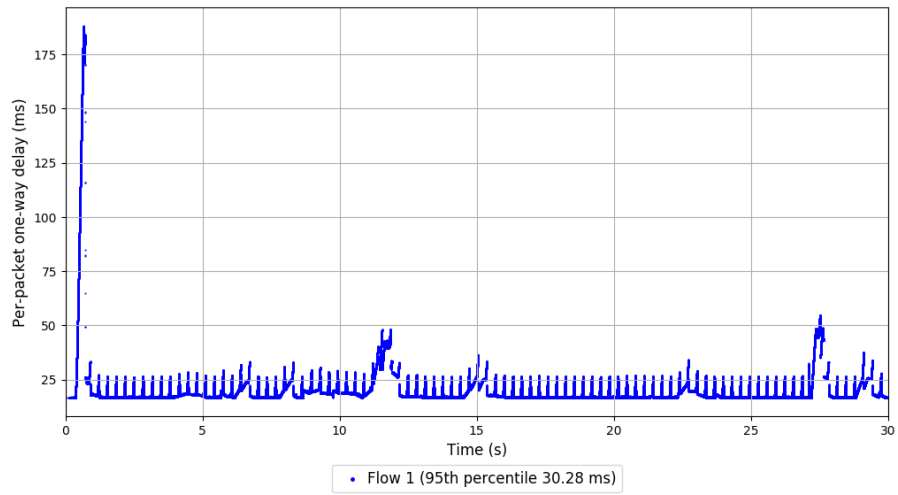
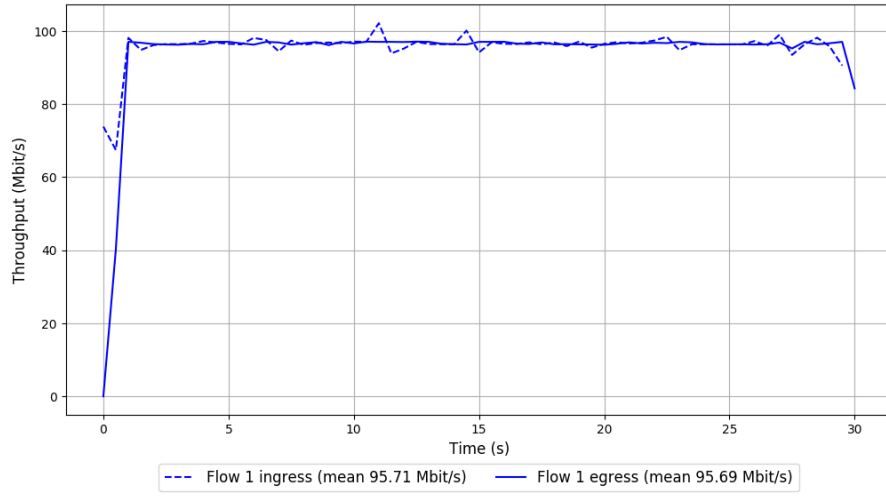
-- Flow 1:

Average throughput: 95.69 Mbit/s

95th percentile per-packet one-way delay: 30.276 ms

Loss rate: 0.19%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-09-18 17:00:07

End at: 2019-09-18 17:00:37

Local clock offset: 5.7 ms

Remote clock offset: 5.12 ms

Below is generated by plot.py at 2019-09-18 18:03:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.43 Mbit/s

95th percentile per-packet one-way delay: 28.128 ms

Loss rate: 0.24%

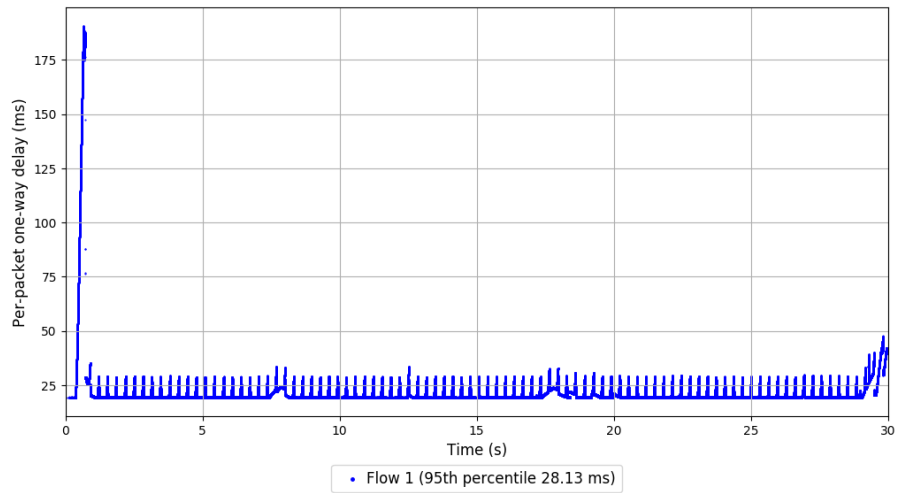
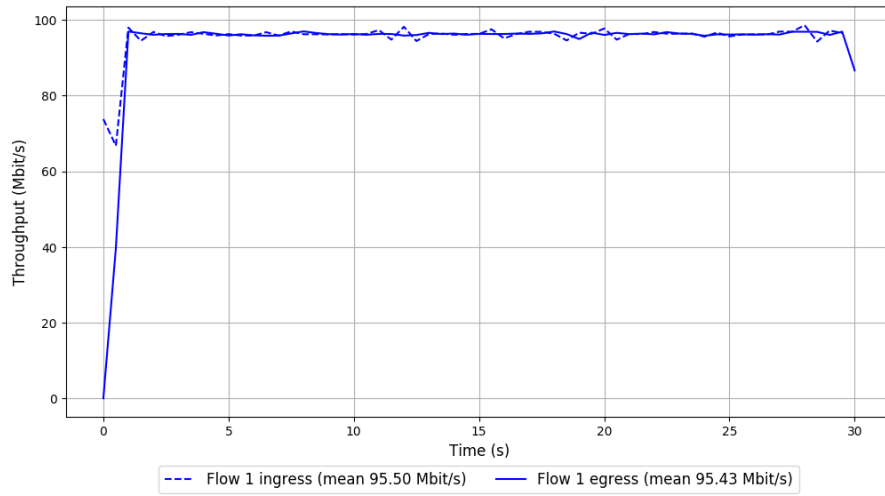
-- Flow 1:

Average throughput: 95.43 Mbit/s

95th percentile per-packet one-way delay: 28.128 ms

Loss rate: 0.24%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-09-18 17:29:17

End at: 2019-09-18 17:29:47

Local clock offset: -1.921 ms

Remote clock offset: 1.363 ms

Below is generated by plot.py at 2019-09-18 18:04:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.48 Mbit/s

95th percentile per-packet one-way delay: 24.935 ms

Loss rate: 0.20%

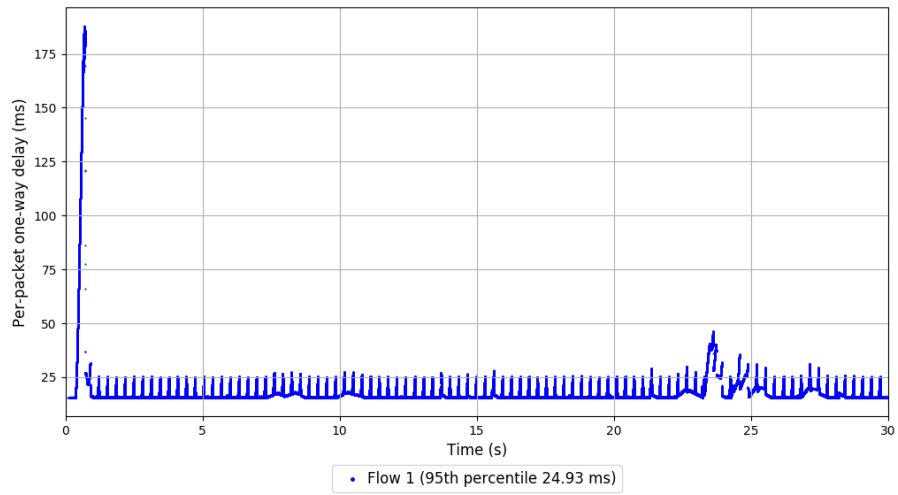
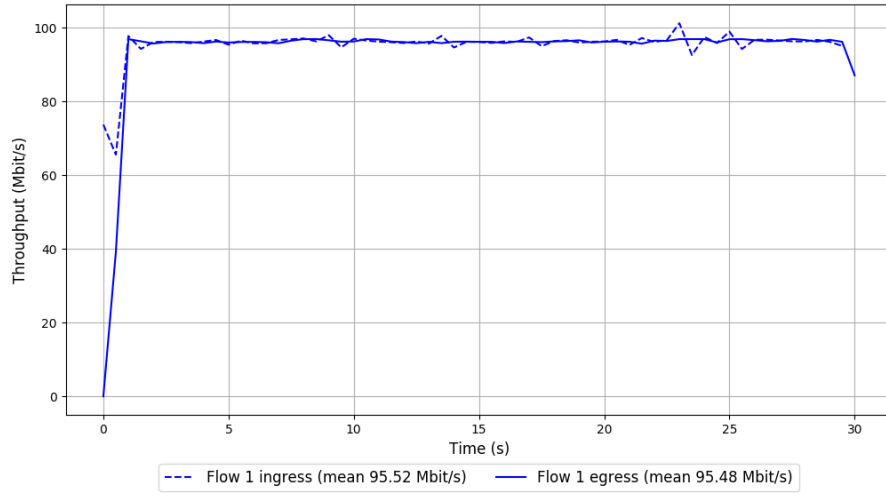
-- Flow 1:

Average throughput: 95.48 Mbit/s

95th percentile per-packet one-way delay: 24.935 ms

Loss rate: 0.20%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-09-18 15:53:16

End at: 2019-09-18 15:53:46

Local clock offset: 6.705 ms

Remote clock offset: 5.503 ms

Below is generated by plot.py at 2019-09-18 18:04:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.70 Mbit/s

95th percentile per-packet one-way delay: 33.876 ms

Loss rate: 0.17%

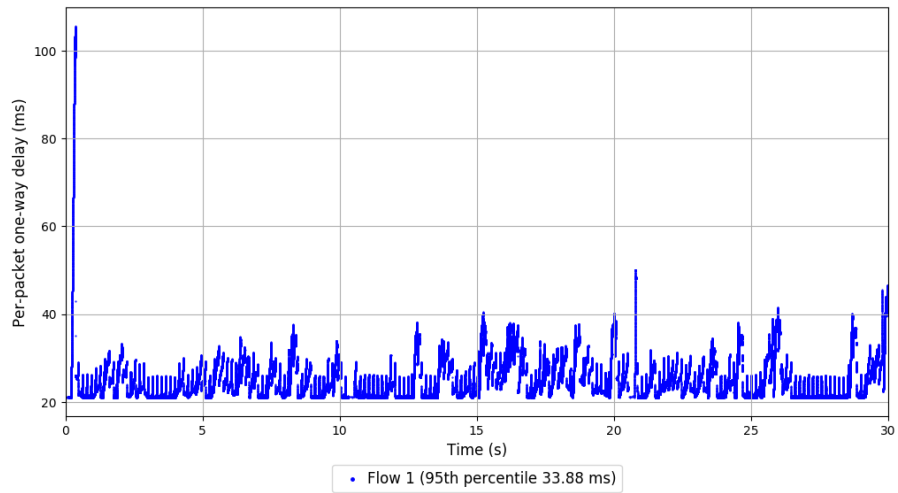
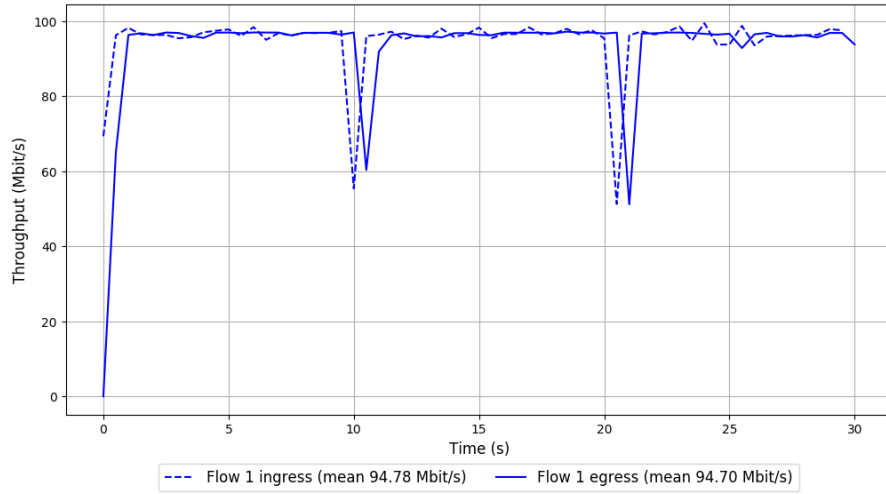
-- Flow 1:

Average throughput: 94.70 Mbit/s

95th percentile per-packet one-way delay: 33.876 ms

Loss rate: 0.17%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-09-18 16:23:32

End at: 2019-09-18 16:24:02

Local clock offset: 5.278 ms

Remote clock offset: 6.249 ms

Below is generated by plot.py at 2019-09-18 18:04:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.73 Mbit/s

95th percentile per-packet one-way delay: 28.037 ms

Loss rate: 0.09%

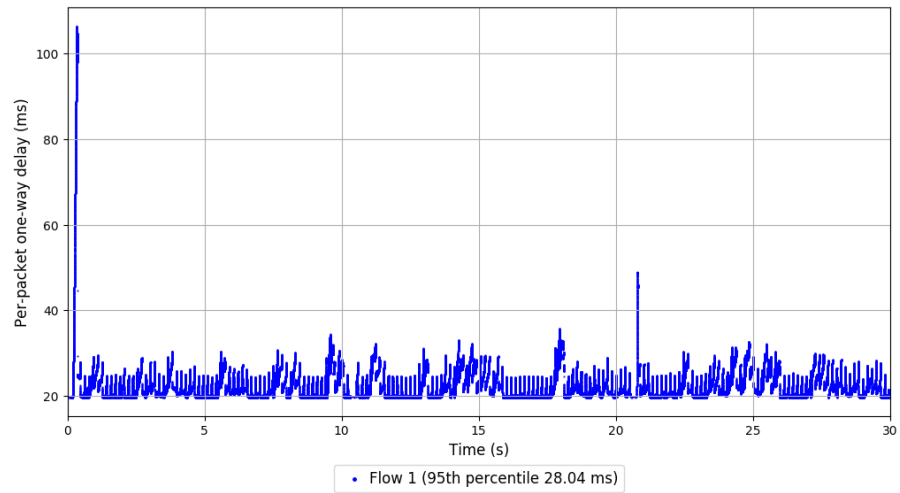
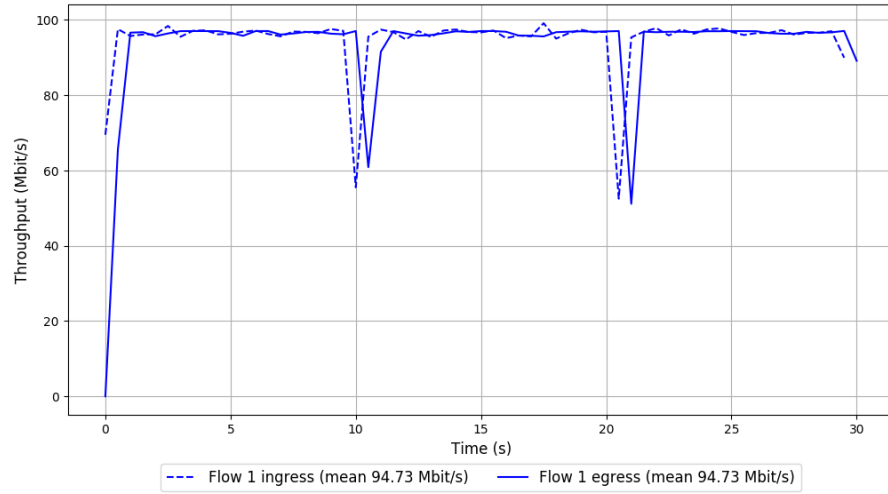
-- Flow 1:

Average throughput: 94.73 Mbit/s

95th percentile per-packet one-way delay: 28.037 ms

Loss rate: 0.09%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-09-18 16:52:57

End at: 2019-09-18 16:53:27

Local clock offset: 6.39 ms

Remote clock offset: 5.592 ms

Below is generated by plot.py at 2019-09-18 18:04:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.01 Mbit/s

95th percentile per-packet one-way delay: 26.178 ms

Loss rate: 0.17%

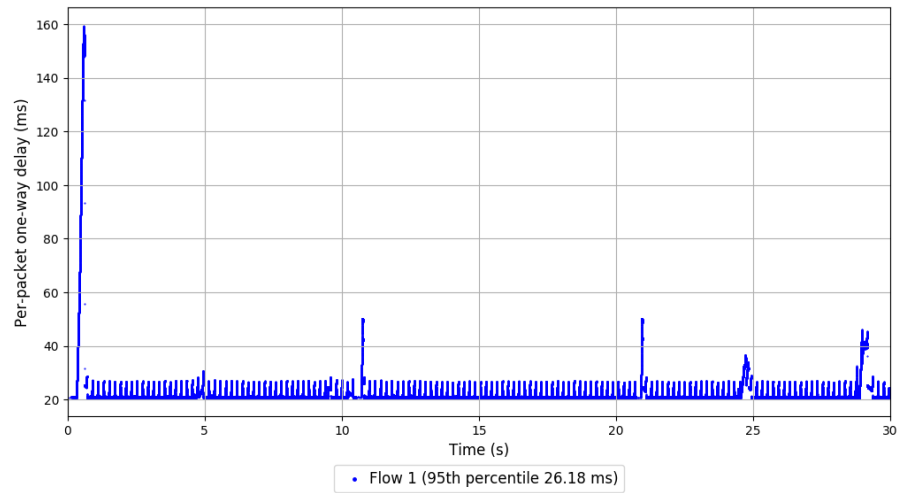
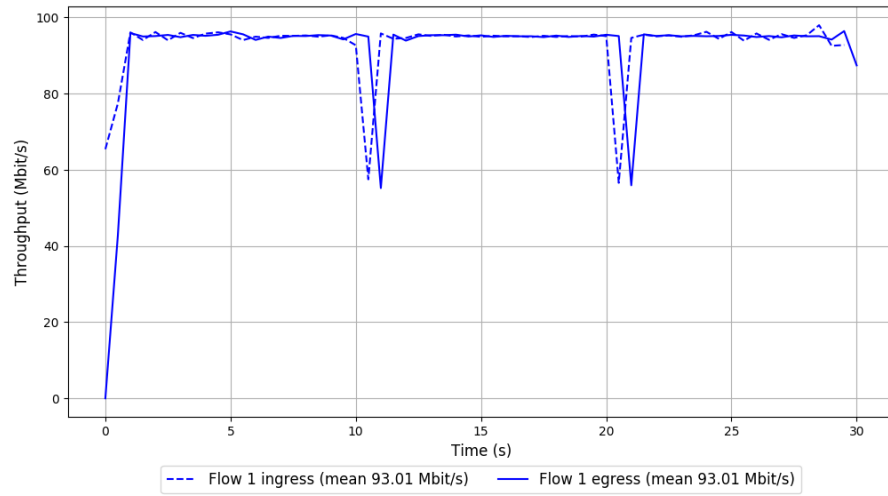
-- Flow 1:

Average throughput: 93.01 Mbit/s

95th percentile per-packet one-way delay: 26.178 ms

Loss rate: 0.17%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-09-18 17:21:56

End at: 2019-09-18 17:22:26

Local clock offset: 3.404 ms

Remote clock offset: 2.102 ms

Below is generated by plot.py at 2019-09-18 18:04:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.94 Mbit/s

95th percentile per-packet one-way delay: 25.640 ms

Loss rate: 0.20%

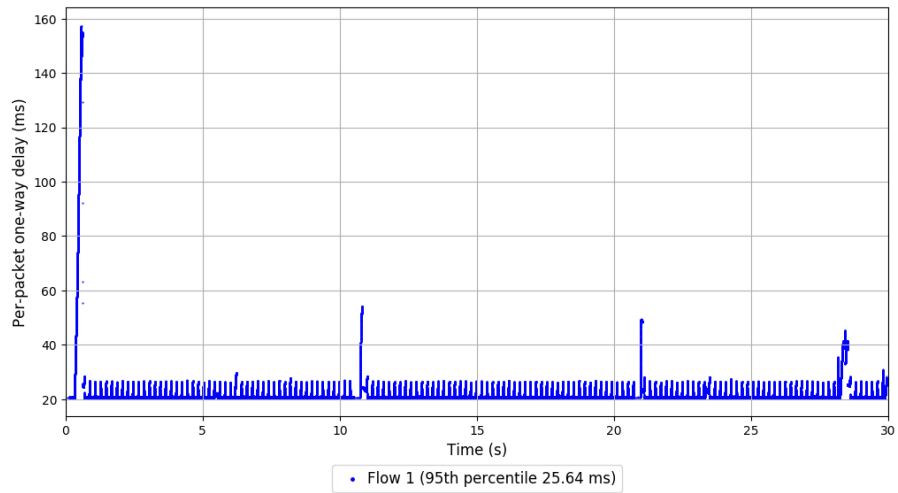
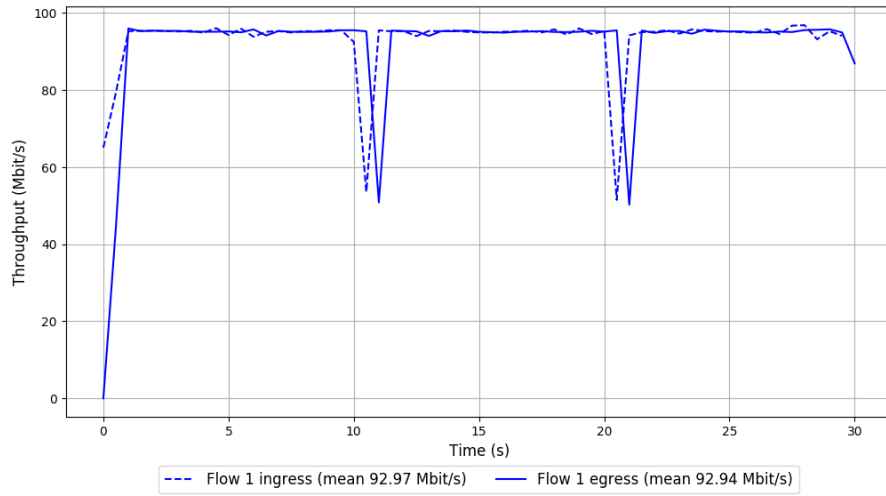
-- Flow 1:

Average throughput: 92.94 Mbit/s

95th percentile per-packet one-way delay: 25.640 ms

Loss rate: 0.20%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-09-18 17:51:04

End at: 2019-09-18 17:51:34

Local clock offset: 3.204 ms

Remote clock offset: -1.875 ms

Below is generated by plot.py at 2019-09-18 18:05:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.26 Mbit/s

95th percentile per-packet one-way delay: 27.161 ms

Loss rate: 0.18%

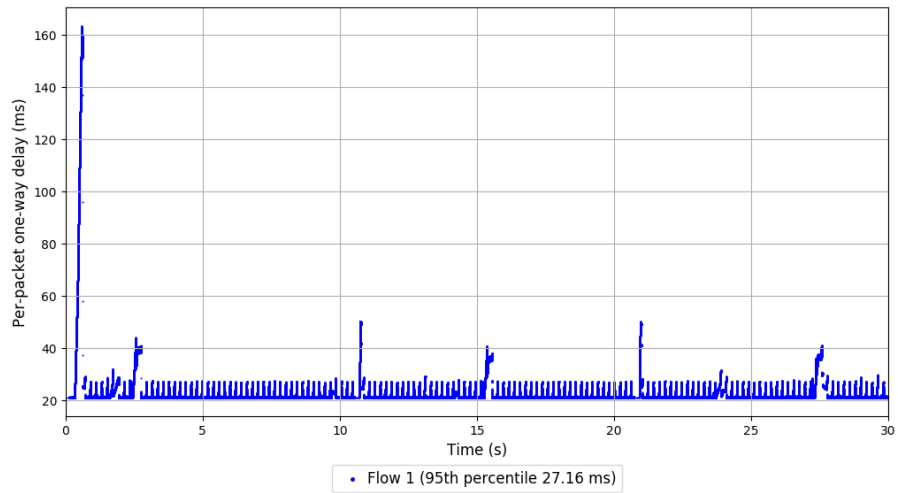
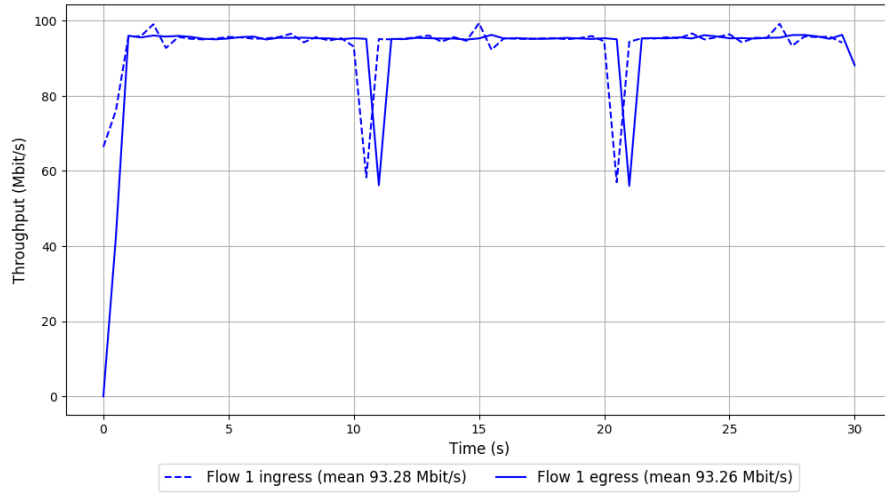
-- Flow 1:

Average throughput: 93.26 Mbit/s

95th percentile per-packet one-way delay: 27.161 ms

Loss rate: 0.18%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-09-18 15:55:56

End at: 2019-09-18 15:56:26

Local clock offset: 2.108 ms

Remote clock offset: 5.269 ms

Below is generated by plot.py at 2019-09-18 18:05:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.76 Mbit/s

95th percentile per-packet one-way delay: 18.701 ms

Loss rate: 0.09%

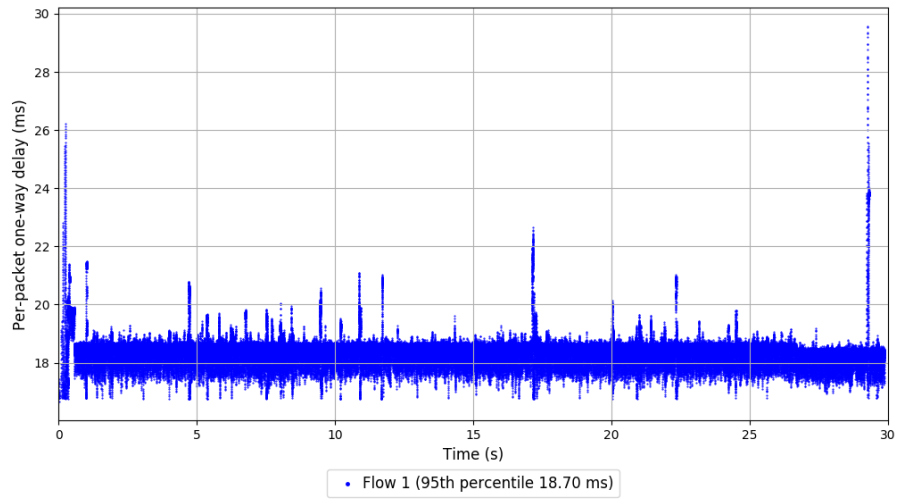
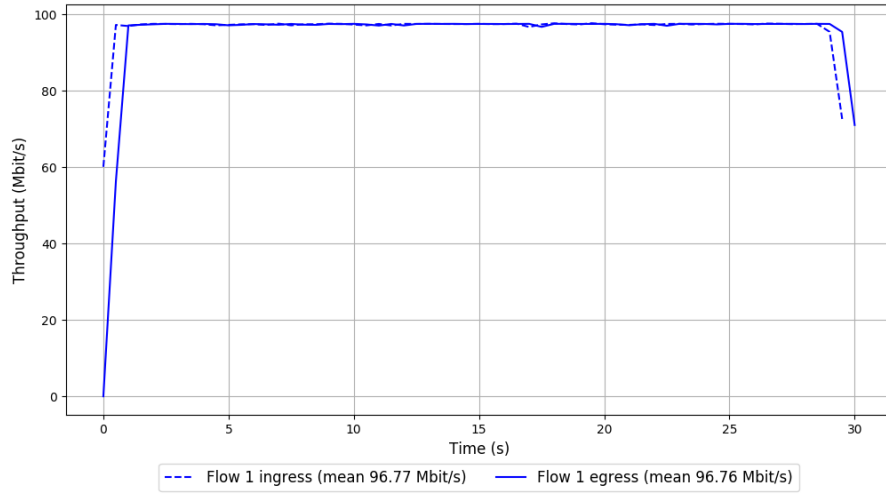
-- Flow 1:

Average throughput: 96.76 Mbit/s

95th percentile per-packet one-way delay: 18.701 ms

Loss rate: 0.09%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-09-18 16:26:26

End at: 2019-09-18 16:26:56

Local clock offset: 5.614 ms

Remote clock offset: 5.831 ms

Below is generated by plot.py at 2019-09-18 18:05:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.21 Mbit/s

95th percentile per-packet one-way delay: 24.955 ms

Loss rate: 0.18%

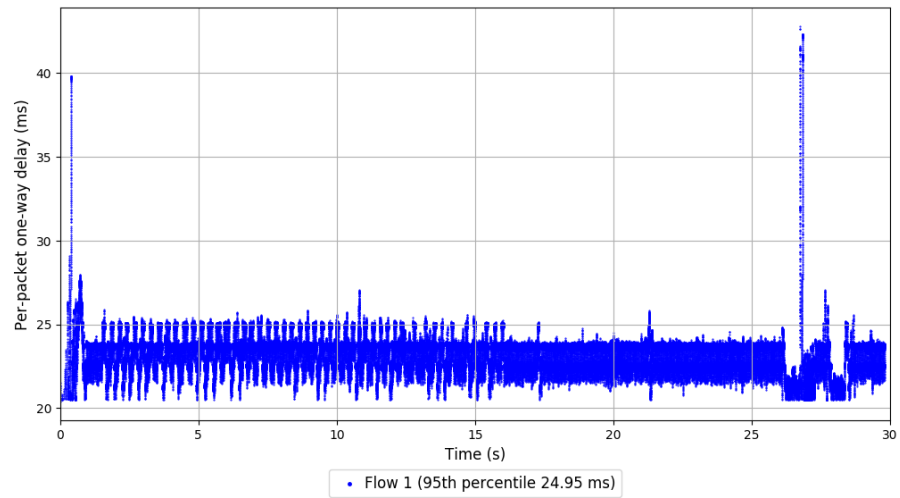
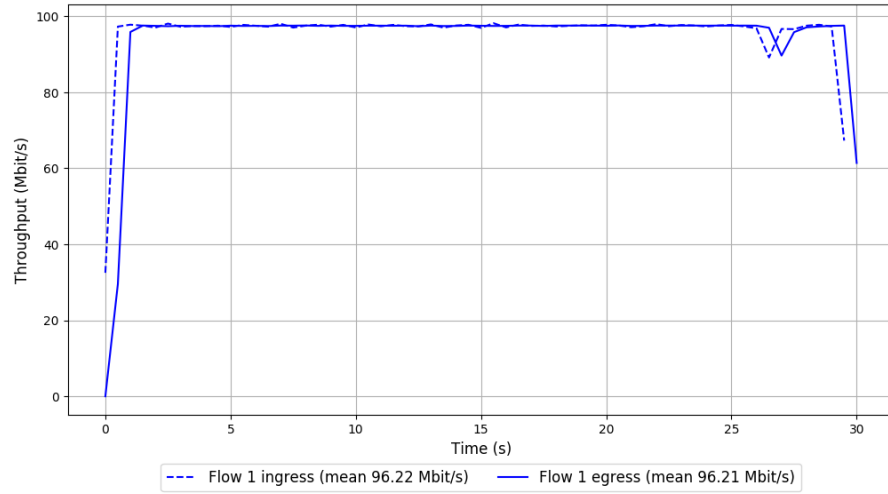
-- Flow 1:

Average throughput: 96.21 Mbit/s

95th percentile per-packet one-way delay: 24.955 ms

Loss rate: 0.18%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-09-18 16:55:24

End at: 2019-09-18 16:55:54

Local clock offset: 1.235 ms

Remote clock offset: 5.352 ms

Below is generated by plot.py at 2019-09-18 18:05:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.90 Mbit/s

95th percentile per-packet one-way delay: 19.939 ms

Loss rate: 0.28%

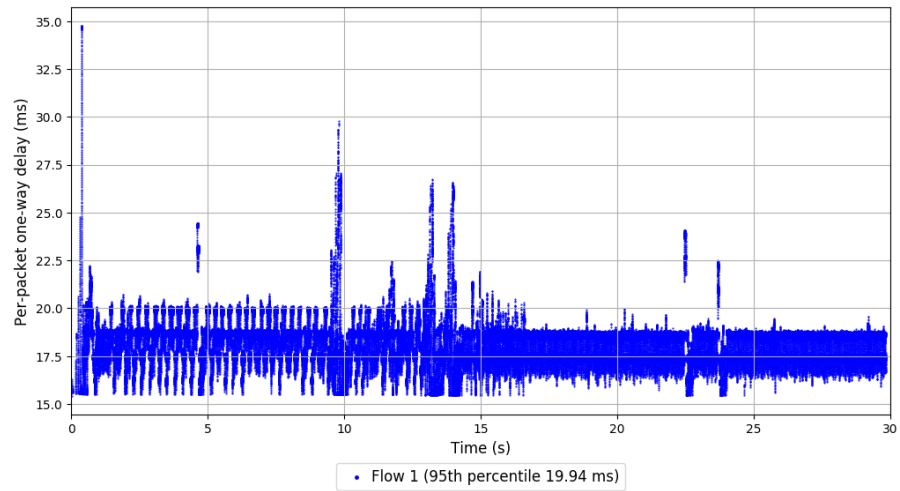
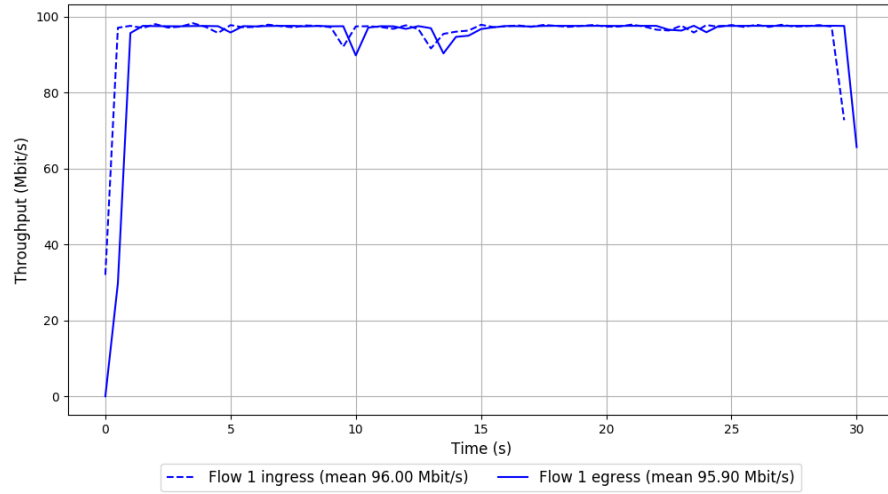
-- Flow 1:

Average throughput: 95.90 Mbit/s

95th percentile per-packet one-way delay: 19.939 ms

Loss rate: 0.28%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-09-18 17:24:30

End at: 2019-09-18 17:25:01

Local clock offset: 2.738 ms

Remote clock offset: 1.862 ms

Below is generated by plot.py at 2019-09-18 18:05:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.96 Mbit/s

95th percentile per-packet one-way delay: 23.415 ms

Loss rate: 0.18%

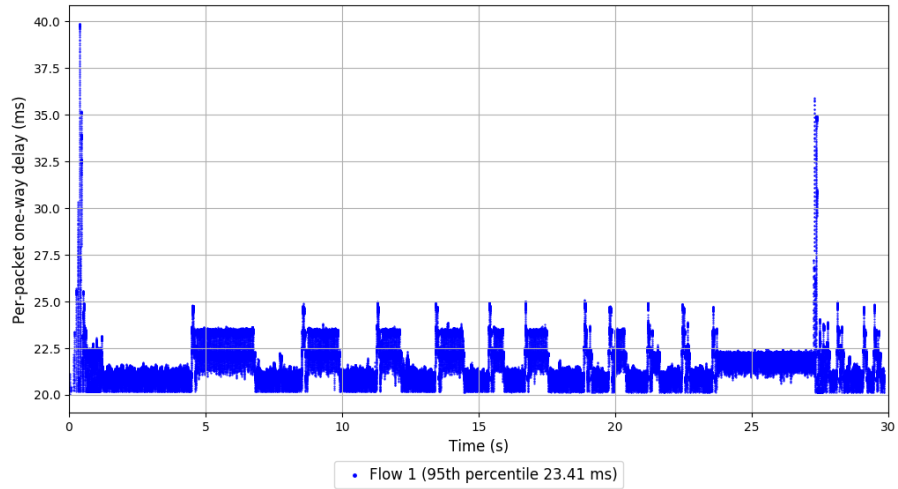
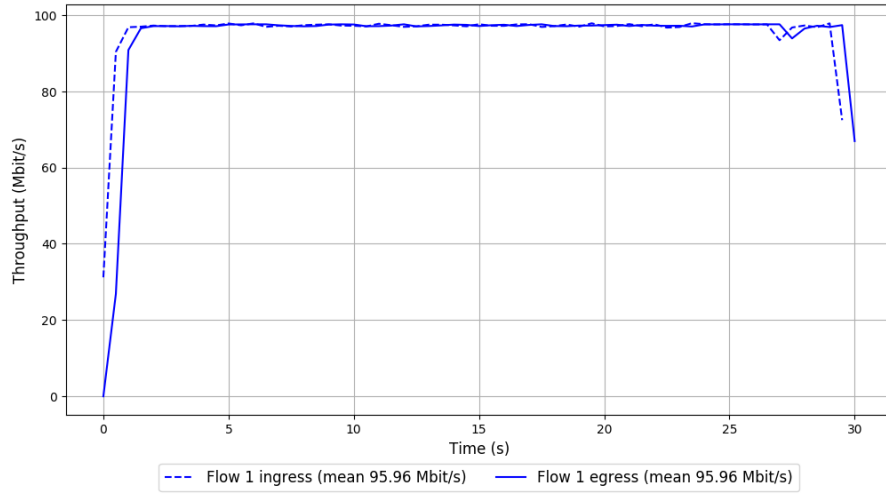
-- Flow 1:

Average throughput: 95.96 Mbit/s

95th percentile per-packet one-way delay: 23.415 ms

Loss rate: 0.18%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-09-18 17:53:34

End at: 2019-09-18 17:54:04

Local clock offset: 4.088 ms

Remote clock offset: -1.021 ms

Below is generated by plot.py at 2019-09-18 18:05:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.64 Mbit/s

95th percentile per-packet one-way delay: 24.425 ms

Loss rate: 0.18%

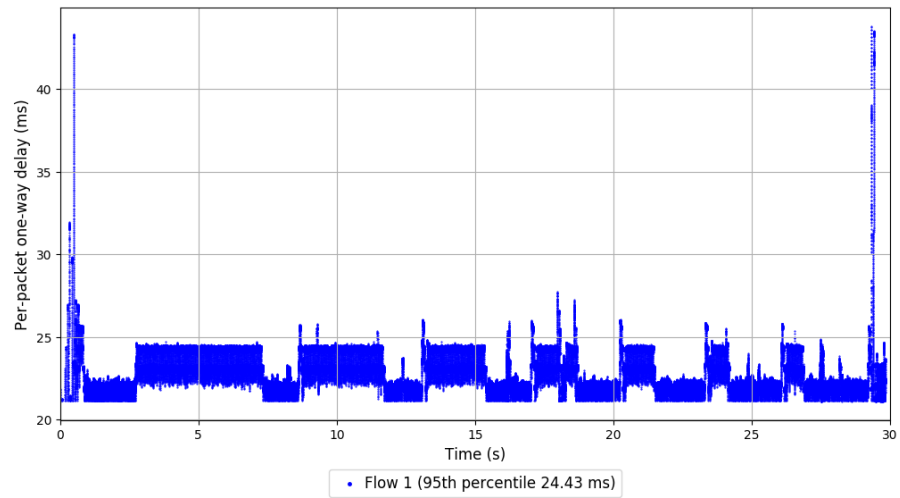
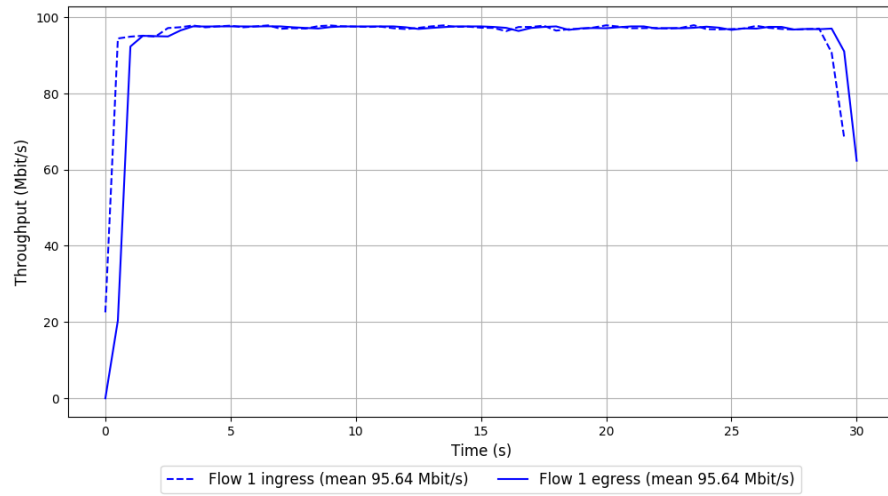
-- Flow 1:

Average throughput: 95.64 Mbit/s

95th percentile per-packet one-way delay: 24.425 ms

Loss rate: 0.18%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-09-18 15:34:11

End at: 2019-09-18 15:34:41

Local clock offset: 5.971 ms

Remote clock offset: 6.419 ms

Below is generated by plot.py at 2019-09-18 18:05:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.14 Mbit/s

95th percentile per-packet one-way delay: 23.212 ms

Loss rate: 0.09%

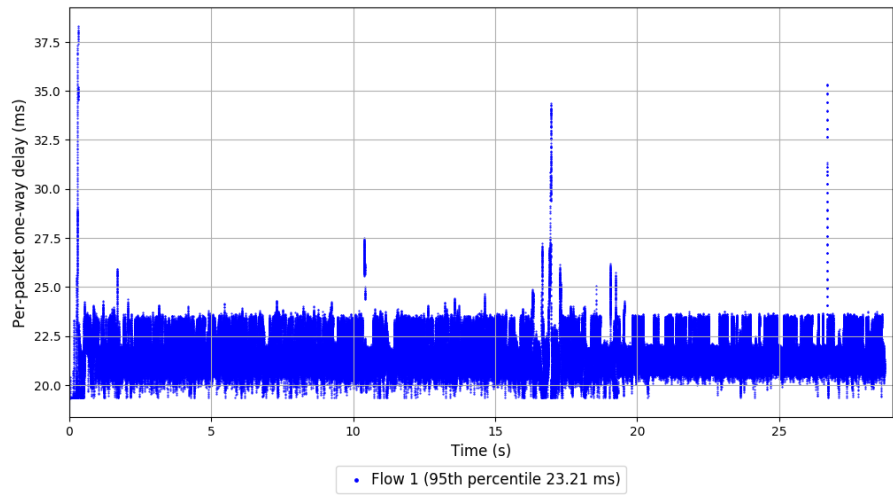
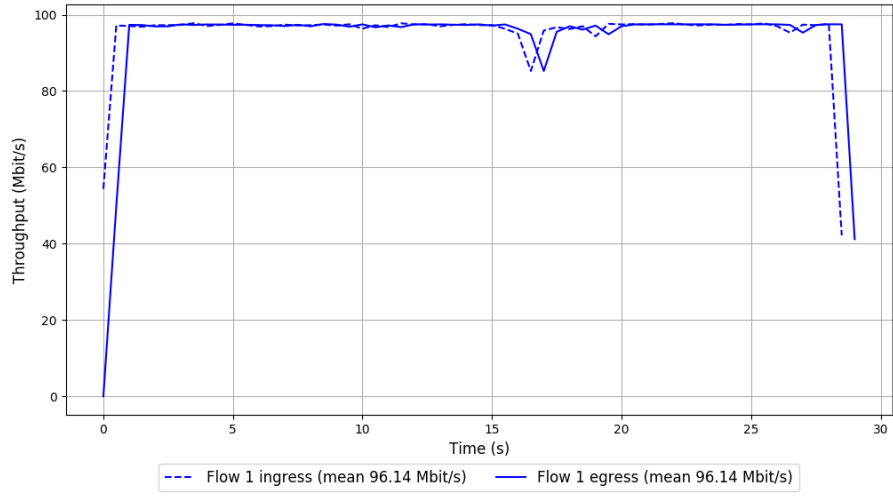
-- Flow 1:

Average throughput: 96.14 Mbit/s

95th percentile per-packet one-way delay: 23.212 ms

Loss rate: 0.09%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-09-18 16:04:35

End at: 2019-09-18 16:05:05

Local clock offset: 5.662 ms

Remote clock offset: 6.211 ms

Below is generated by plot.py at 2019-09-18 18:05:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.24 Mbit/s

95th percentile per-packet one-way delay: 23.706 ms

Loss rate: 0.10%

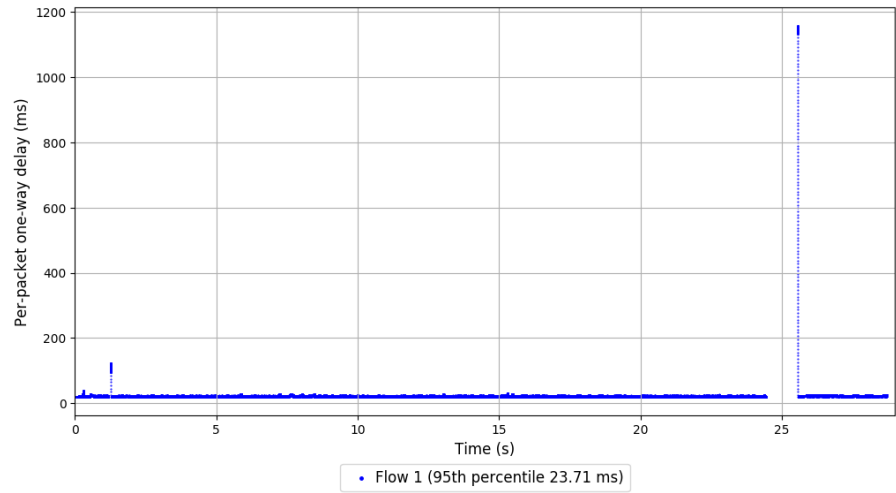
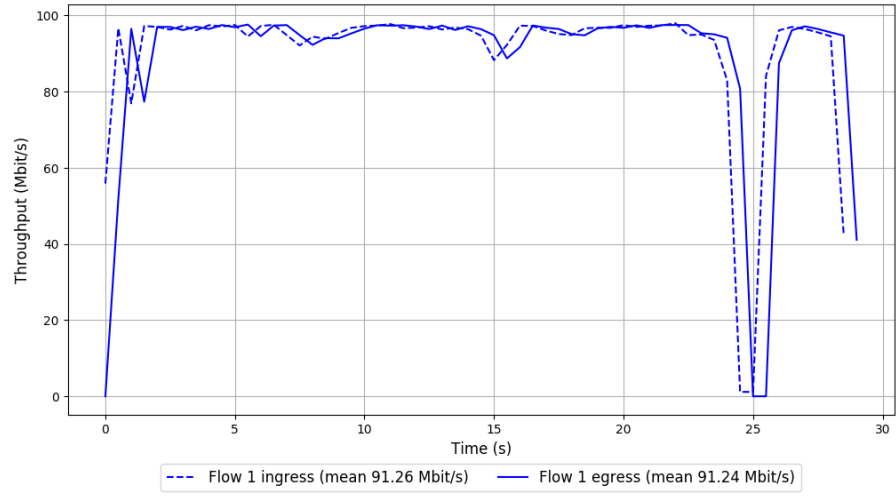
-- Flow 1:

Average throughput: 91.24 Mbit/s

95th percentile per-packet one-way delay: 23.706 ms

Loss rate: 0.10%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-09-18 16:34:55

End at: 2019-09-18 16:35:25

Local clock offset: 1.82 ms

Remote clock offset: 6.14 ms

Below is generated by plot.py at 2019-09-18 18:06:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.51 Mbit/s

95th percentile per-packet one-way delay: 22.136 ms

Loss rate: 0.19%

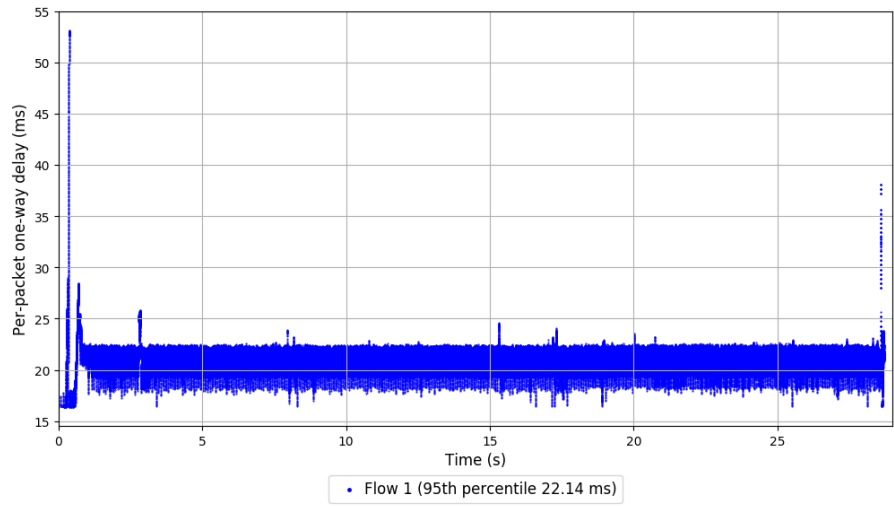
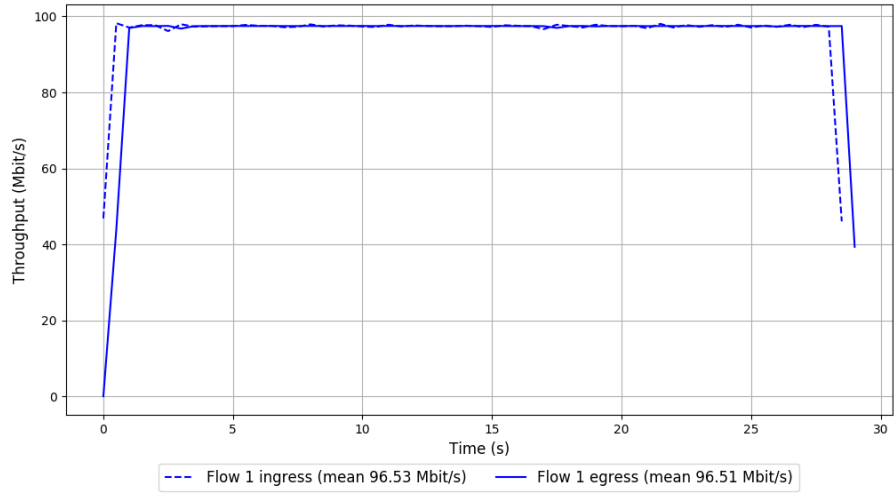
-- Flow 1:

Average throughput: 96.51 Mbit/s

95th percentile per-packet one-way delay: 22.136 ms

Loss rate: 0.19%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-09-18 17:03:38

End at: 2019-09-18 17:04:08

Local clock offset: 0.58 ms

Remote clock offset: 2.366 ms

Below is generated by plot.py at 2019-09-18 18:06:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 22.919 ms

Loss rate: 0.19%

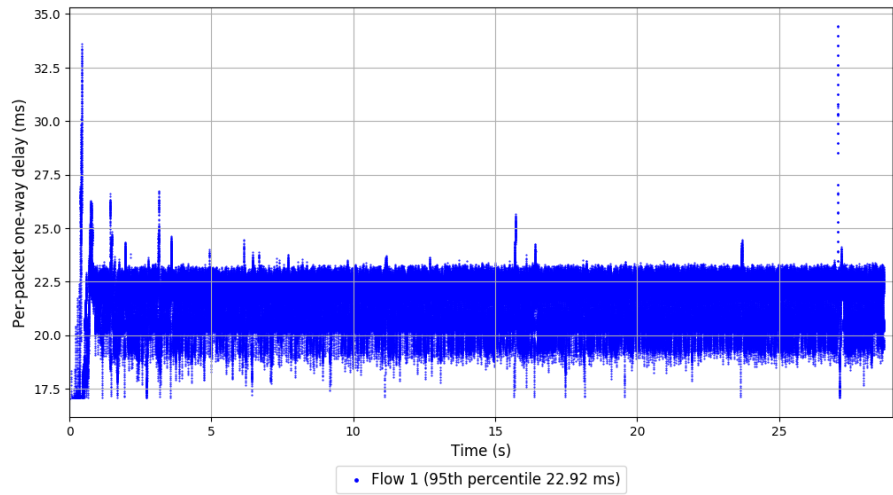
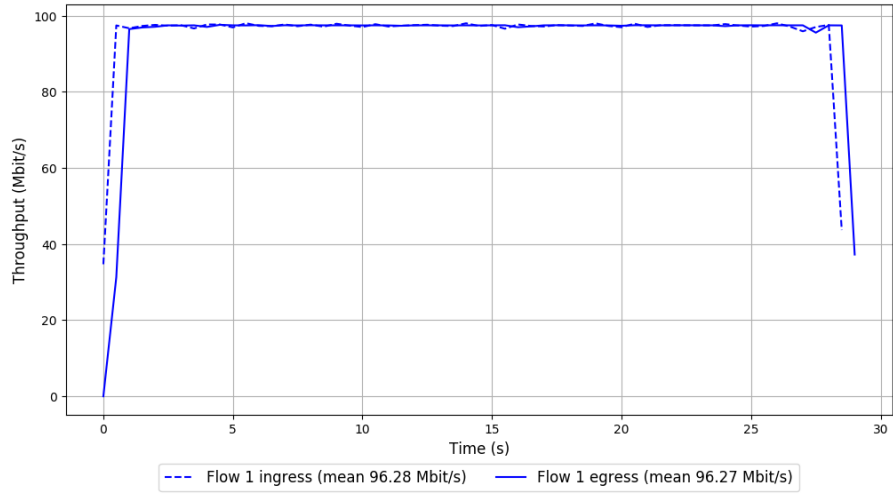
-- Flow 1:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 22.919 ms

Loss rate: 0.19%

Run 4: Report of Indigo-MusesC3 — Data Link

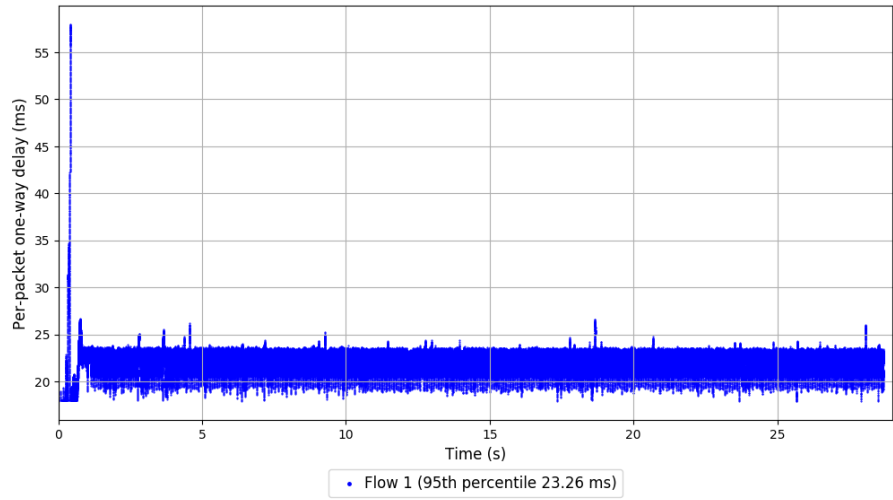
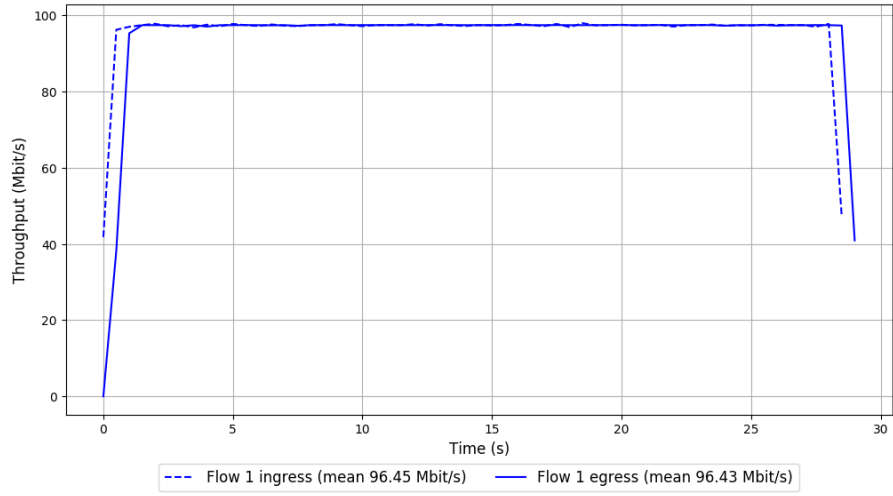


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-09-18 17:32:54
End at: 2019-09-18 17:33:24
Local clock offset: -0.764 ms
Remote clock offset: -0.528 ms

Below is generated by plot.py at 2019-09-18 18:06:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.43 Mbit/s
95th percentile per-packet one-way delay: 23.256 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 96.43 Mbit/s
95th percentile per-packet one-way delay: 23.256 ms
Loss rate: 0.19%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-09-18 15:59:40

End at: 2019-09-18 16:00:10

Local clock offset: 1.74 ms

Remote clock offset: 6.638 ms

Below is generated by plot.py at 2019-09-18 18:06:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.40 Mbit/s

95th percentile per-packet one-way delay: 18.052 ms

Loss rate: 0.09%

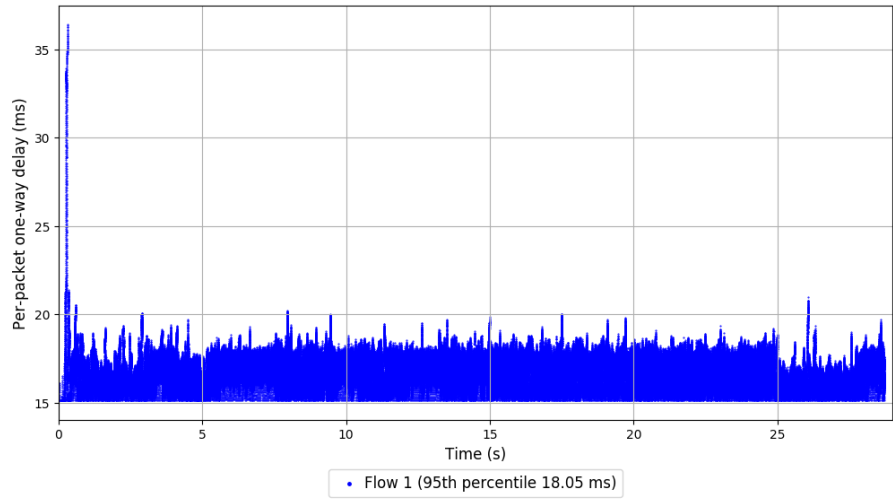
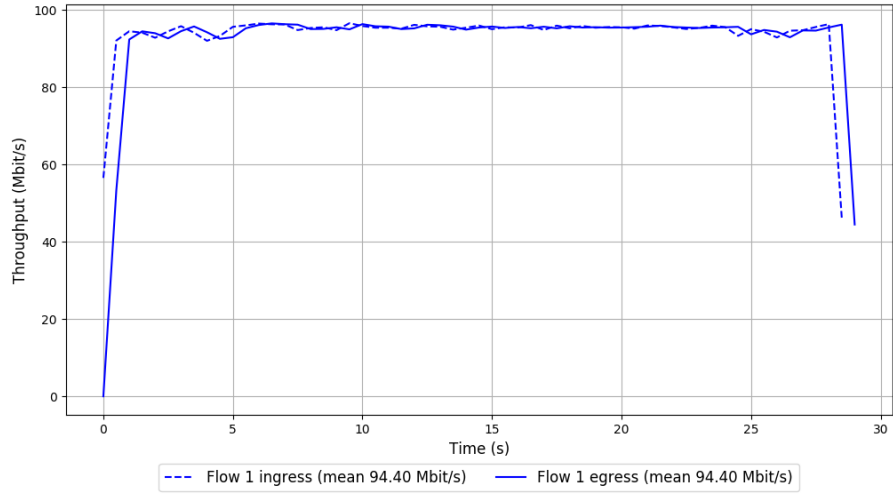
-- Flow 1:

Average throughput: 94.40 Mbit/s

95th percentile per-packet one-way delay: 18.052 ms

Loss rate: 0.09%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-09-18 16:30:11

End at: 2019-09-18 16:30:41

Local clock offset: 6.257 ms

Remote clock offset: 5.943 ms

Below is generated by plot.py at 2019-09-18 18:06:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.03 Mbit/s

95th percentile per-packet one-way delay: 25.331 ms

Loss rate: 0.19%

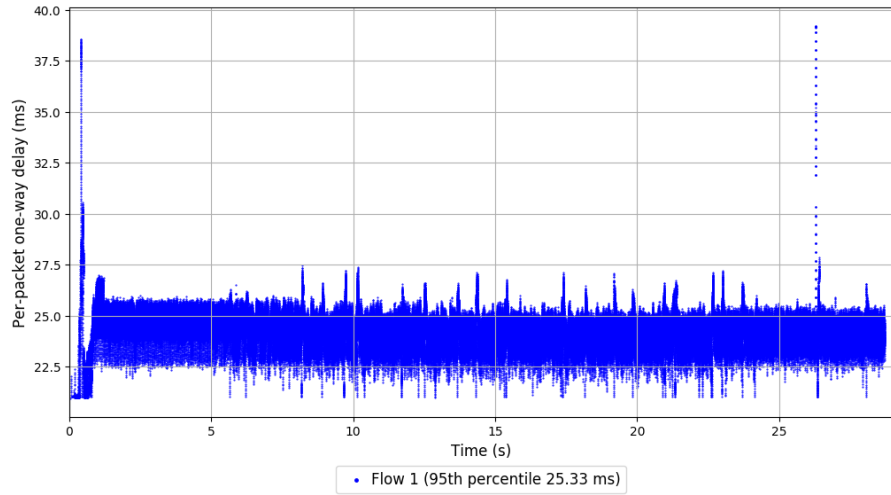
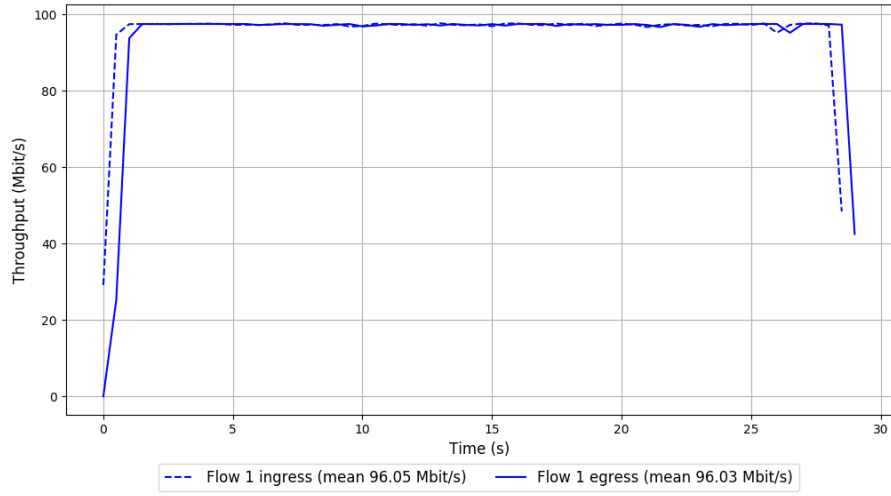
-- Flow 1:

Average throughput: 96.03 Mbit/s

95th percentile per-packet one-way delay: 25.331 ms

Loss rate: 0.19%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-09-18 16:58:58

End at: 2019-09-18 16:59:28

Local clock offset: 1.729 ms

Remote clock offset: 4.441 ms

Below is generated by plot.py at 2019-09-18 18:06:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.78 Mbit/s

95th percentile per-packet one-way delay: 20.093 ms

Loss rate: 0.19%

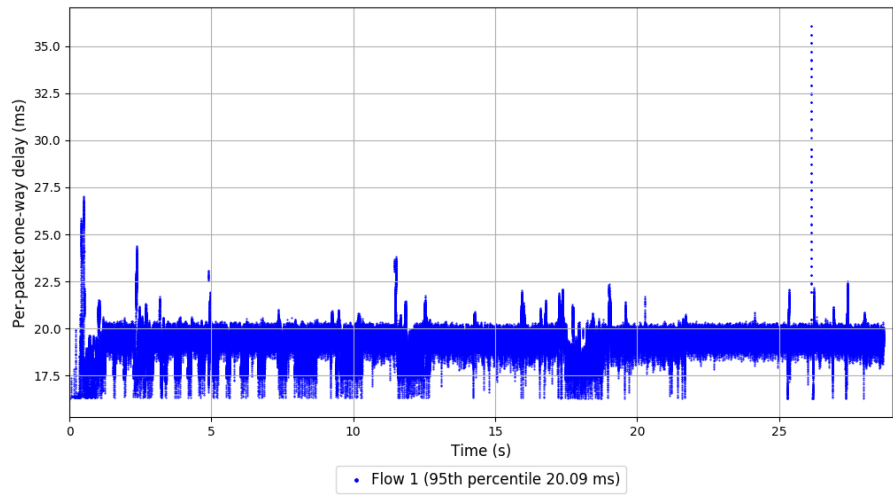
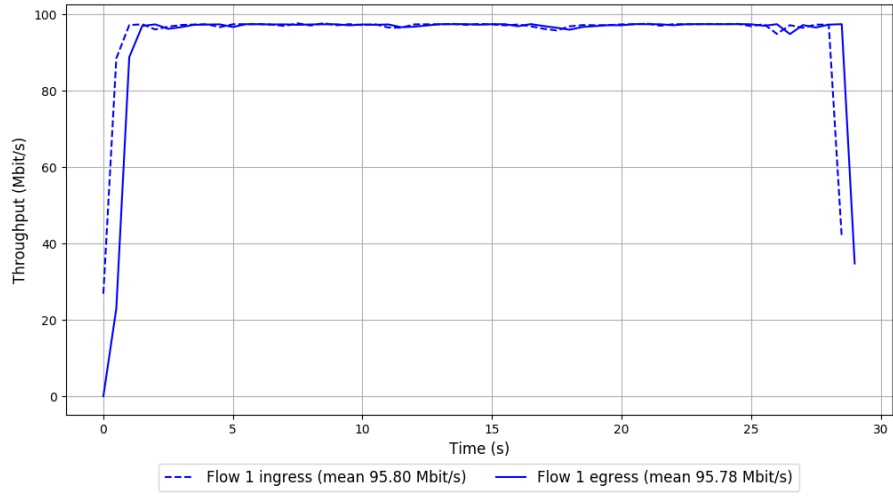
-- Flow 1:

Average throughput: 95.78 Mbit/s

95th percentile per-packet one-way delay: 20.093 ms

Loss rate: 0.19%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-09-18 17:28:06

End at: 2019-09-18 17:28:36

Local clock offset: 2.689 ms

Remote clock offset: 1.383 ms

Below is generated by plot.py at 2019-09-18 18:06:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.23 Mbit/s

95th percentile per-packet one-way delay: 24.337 ms

Loss rate: 0.19%

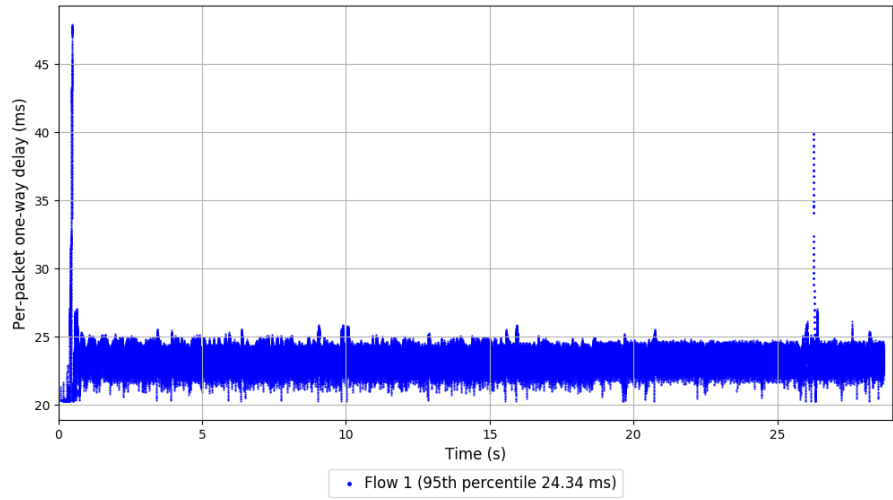
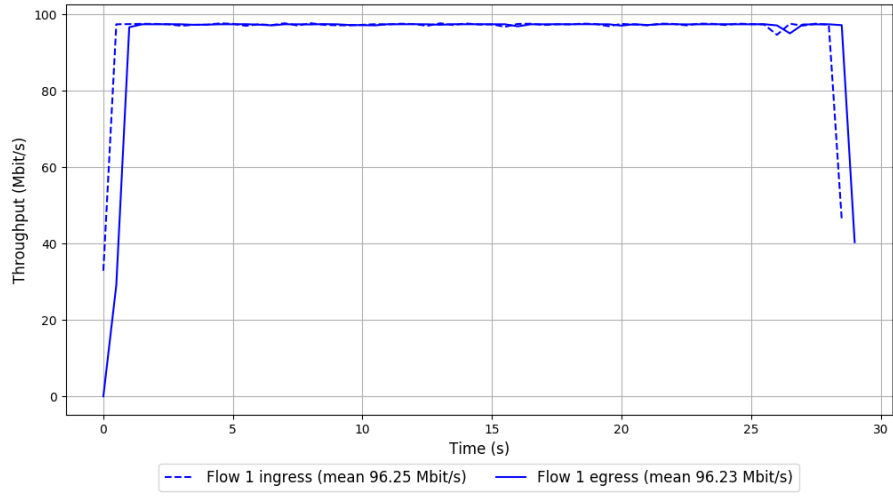
-- Flow 1:

Average throughput: 96.23 Mbit/s

95th percentile per-packet one-way delay: 24.337 ms

Loss rate: 0.19%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-09-18 17:57:08

End at: 2019-09-18 17:57:38

Local clock offset: -0.26 ms

Remote clock offset: -1.594 ms

Below is generated by plot.py at 2019-09-18 18:06:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.10 Mbit/s

95th percentile per-packet one-way delay: 20.972 ms

Loss rate: 0.19%

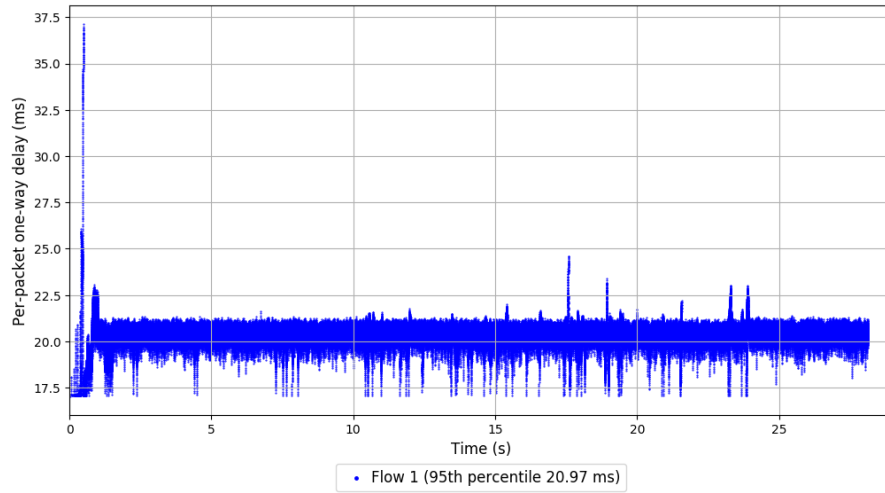
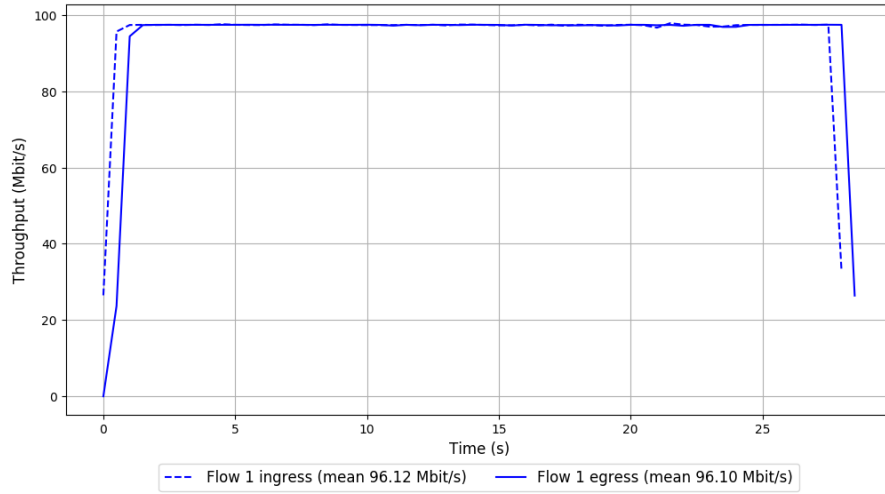
-- Flow 1:

Average throughput: 96.10 Mbit/s

95th percentile per-packet one-way delay: 20.972 ms

Loss rate: 0.19%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-09-18 15:31:32

End at: 2019-09-18 15:32:02

Local clock offset: 2.072 ms

Remote clock offset: 5.415 ms

Below is generated by plot.py at 2019-09-18 18:07:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.71 Mbit/s

95th percentile per-packet one-way delay: 19.339 ms

Loss rate: 0.10%

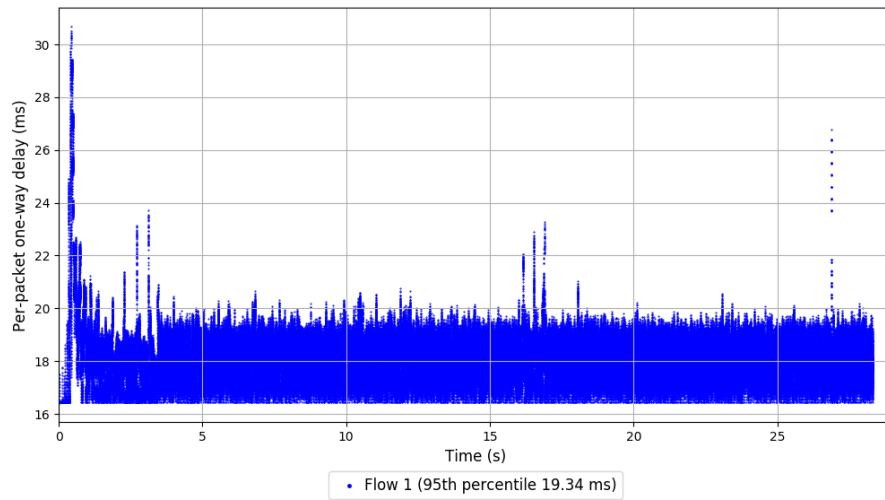
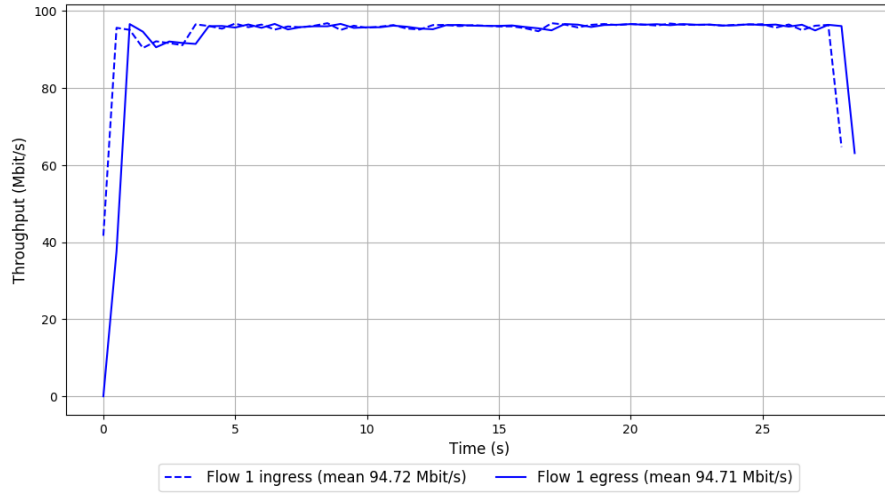
-- Flow 1:

Average throughput: 94.71 Mbit/s

95th percentile per-packet one-way delay: 19.339 ms

Loss rate: 0.10%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-09-18 16:02:08

End at: 2019-09-18 16:02:38

Local clock offset: 6.888 ms

Remote clock offset: 5.492 ms

Below is generated by plot.py at 2019-09-18 18:07:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.71 Mbit/s

95th percentile per-packet one-way delay: 24.609 ms

Loss rate: 0.09%

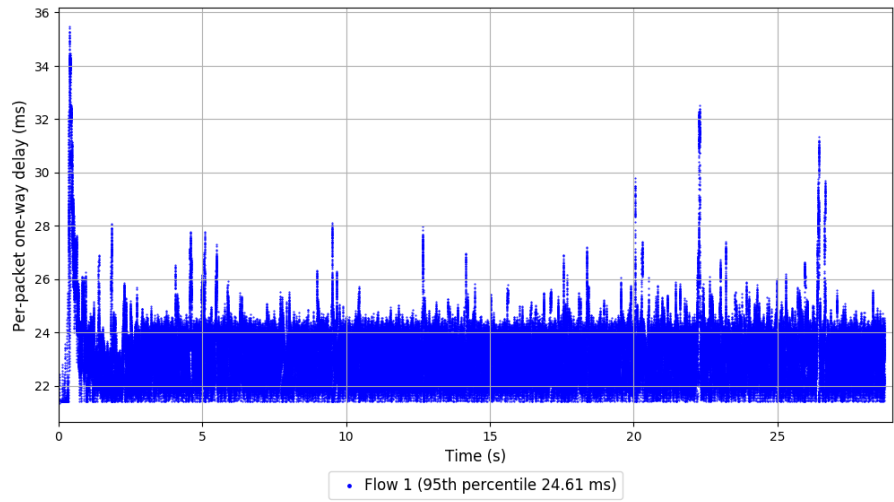
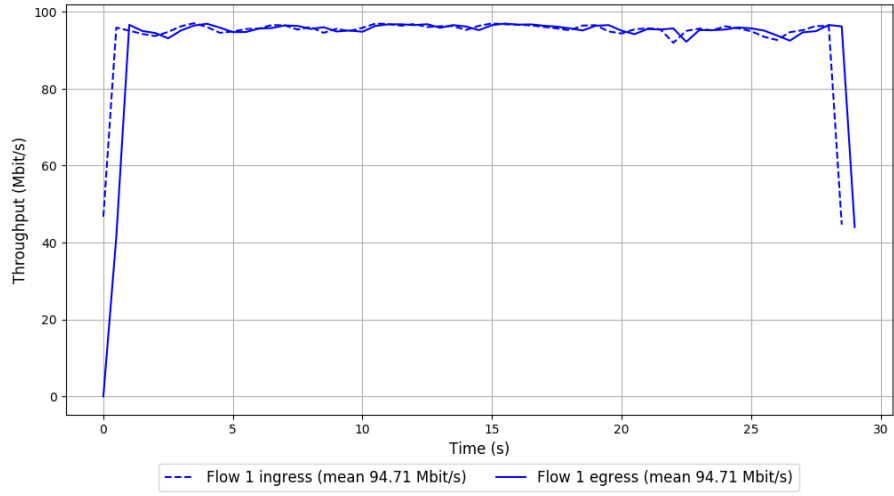
-- Flow 1:

Average throughput: 94.71 Mbit/s

95th percentile per-packet one-way delay: 24.609 ms

Loss rate: 0.09%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-09-18 16:32:33

End at: 2019-09-18 16:33:03

Local clock offset: 2.275 ms

Remote clock offset: 5.842 ms

Below is generated by plot.py at 2019-09-18 18:07:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.98 Mbit/s

95th percentile per-packet one-way delay: 20.064 ms

Loss rate: 0.19%

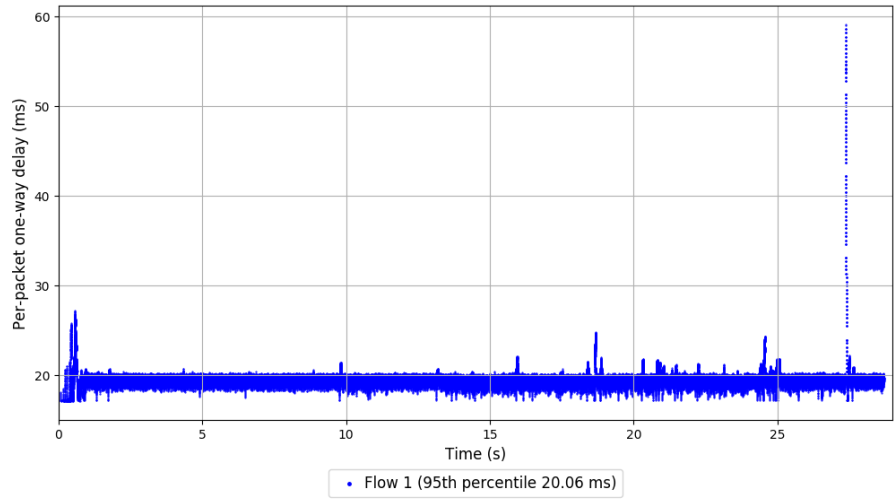
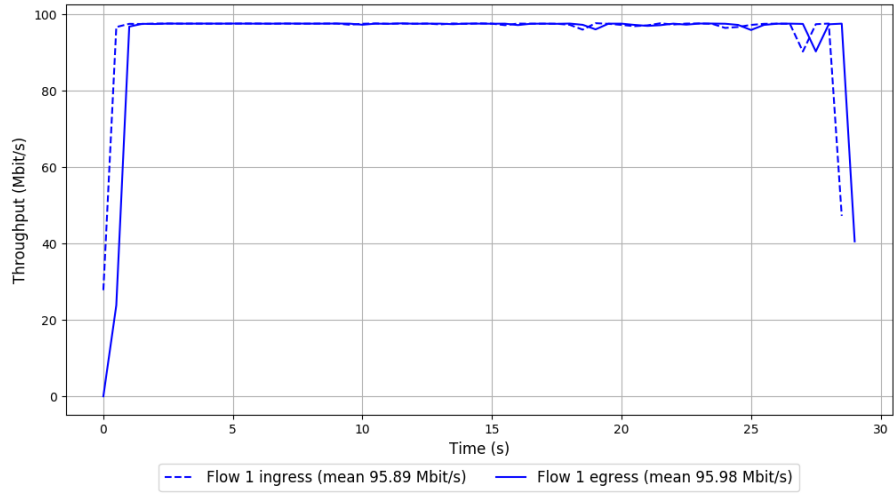
-- Flow 1:

Average throughput: 95.98 Mbit/s

95th percentile per-packet one-way delay: 20.064 ms

Loss rate: 0.19%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-09-18 17:01:17

End at: 2019-09-18 17:01:47

Local clock offset: 5.339 ms

Remote clock offset: 4.643 ms

Below is generated by plot.py at 2019-09-18 18:07:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.85 Mbit/s

95th percentile per-packet one-way delay: 22.352 ms

Loss rate: 0.22%

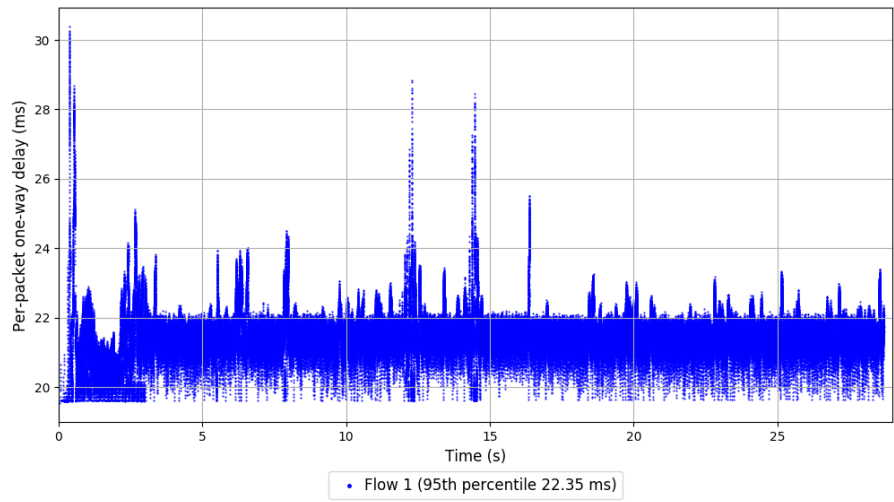
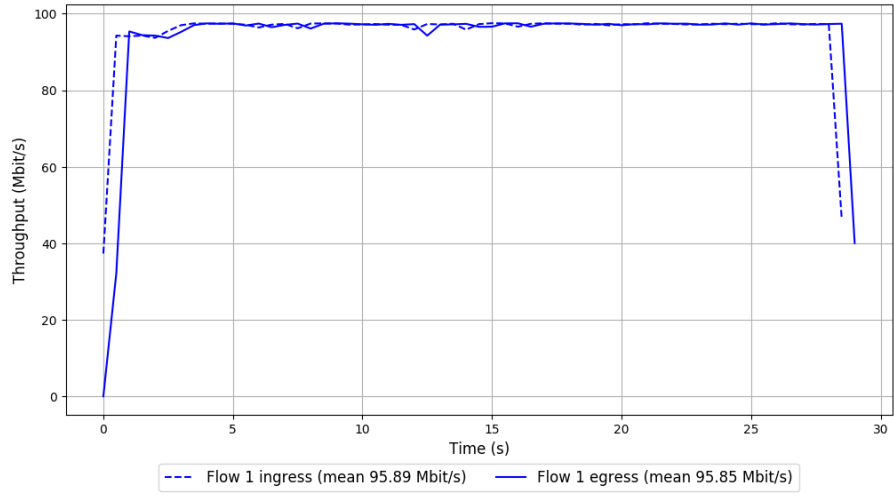
-- Flow 1:

Average throughput: 95.85 Mbit/s

95th percentile per-packet one-way delay: 22.352 ms

Loss rate: 0.22%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-09-18 17:30:28

End at: 2019-09-18 17:30:58

Local clock offset: 2.131 ms

Remote clock offset: 1.12 ms

Below is generated by plot.py at 2019-09-18 18:07:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.68 Mbit/s

95th percentile per-packet one-way delay: 23.549 ms

Loss rate: 0.18%

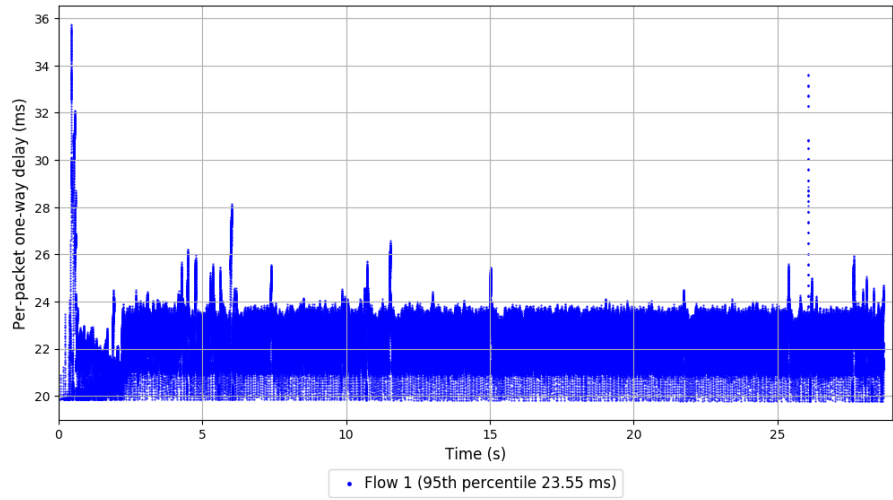
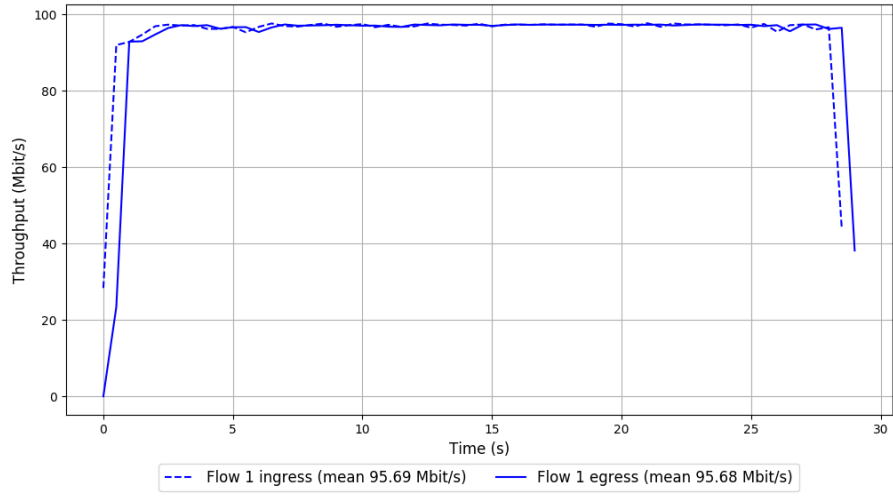
-- Flow 1:

Average throughput: 95.68 Mbit/s

95th percentile per-packet one-way delay: 23.549 ms

Loss rate: 0.18%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MuseST

Start at: 2019-09-18 15:32:50

End at: 2019-09-18 15:33:20

Local clock offset: 1.368 ms

Remote clock offset: 5.852 ms

Below is generated by plot.py at 2019-09-18 18:07:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.43 Mbit/s

95th percentile per-packet one-way delay: 19.069 ms

Loss rate: 0.10%

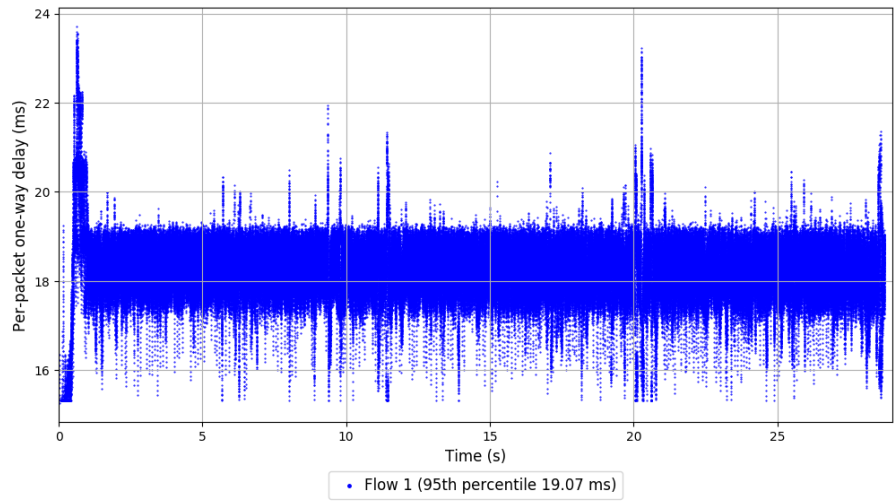
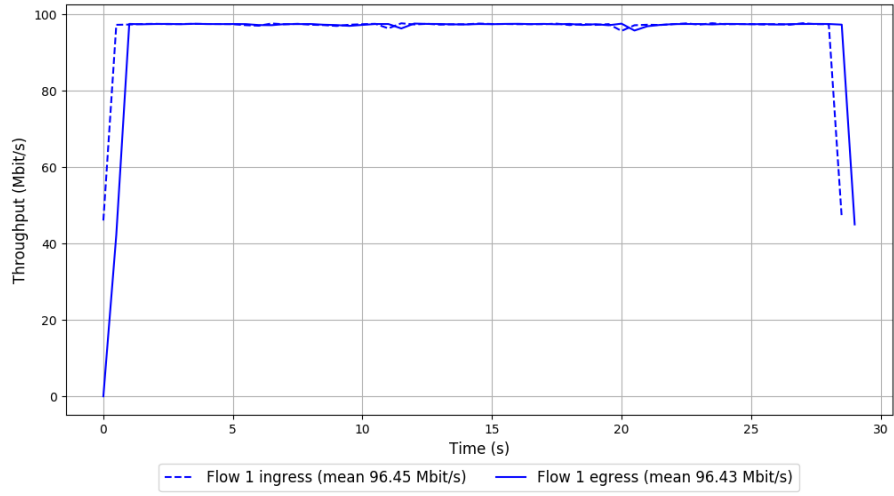
-- Flow 1:

Average throughput: 96.43 Mbit/s

95th percentile per-packet one-way delay: 19.069 ms

Loss rate: 0.10%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-09-18 16:03:23

End at: 2019-09-18 16:03:53

Local clock offset: 2.246 ms

Remote clock offset: 6.319 ms

Below is generated by plot.py at 2019-09-18 18:07:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.28 Mbit/s

95th percentile per-packet one-way delay: 19.786 ms

Loss rate: 0.10%

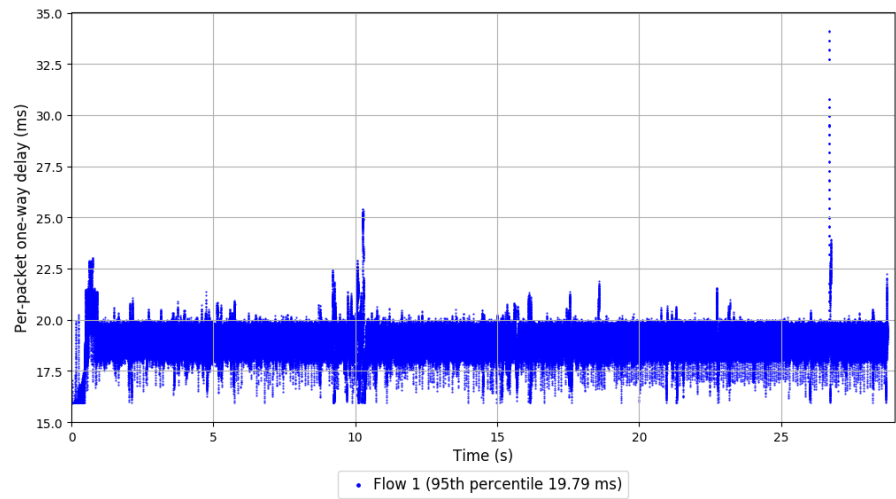
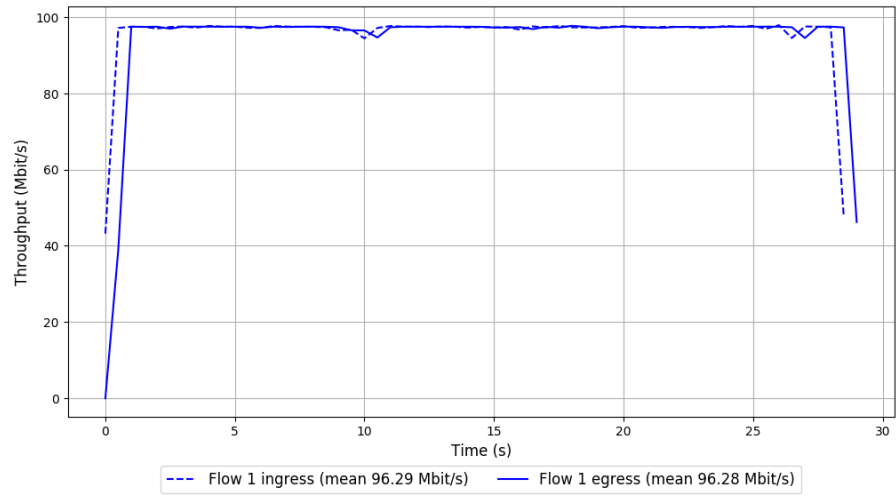
-- Flow 1:

Average throughput: 96.28 Mbit/s

95th percentile per-packet one-way delay: 19.786 ms

Loss rate: 0.10%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MuseST

Start at: 2019-09-18 16:33:45

End at: 2019-09-18 16:34:15

Local clock offset: 0.687 ms

Remote clock offset: 5.644 ms

Below is generated by plot.py at 2019-09-18 18:08:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.62 Mbit/s

95th percentile per-packet one-way delay: 21.927 ms

Loss rate: 0.20%

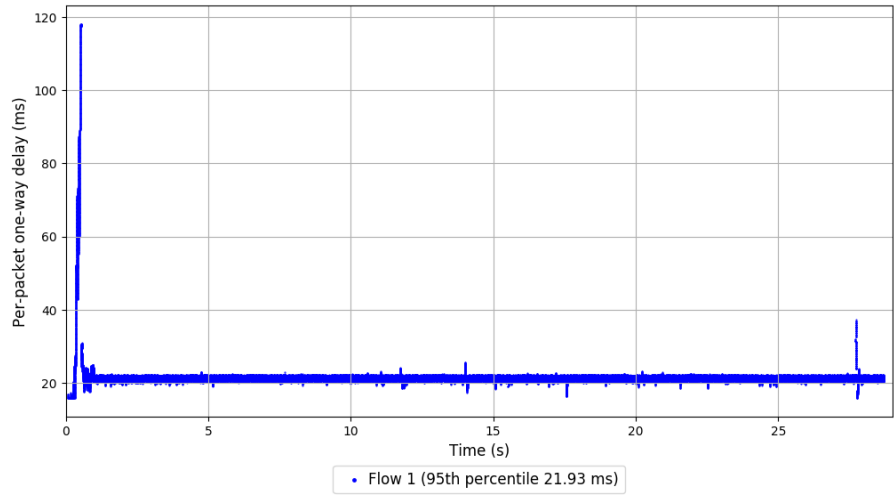
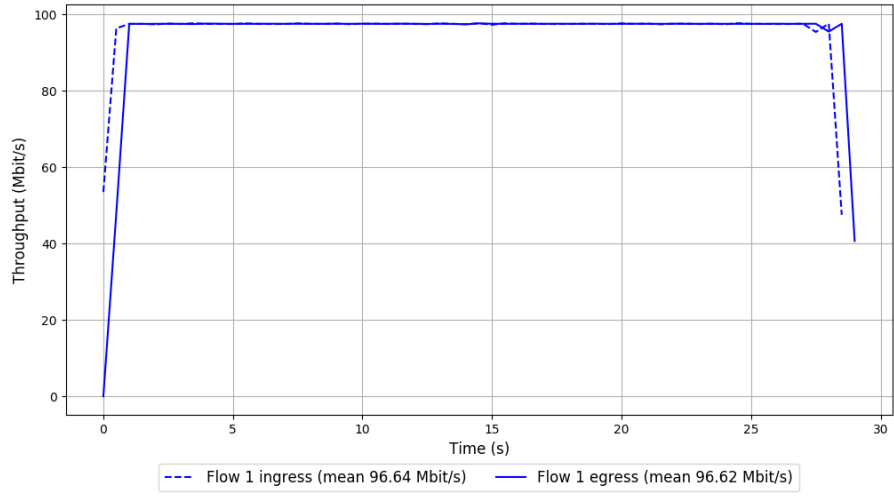
-- Flow 1:

Average throughput: 96.62 Mbit/s

95th percentile per-packet one-way delay: 21.927 ms

Loss rate: 0.20%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MuseST

Start at: 2019-09-18 17:02:26

End at: 2019-09-18 17:02:56

Local clock offset: 0.697 ms

Remote clock offset: 3.137 ms

Below is generated by plot.py at 2019-09-18 18:08:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.49 Mbit/s

95th percentile per-packet one-way delay: 23.926 ms

Loss rate: 0.20%

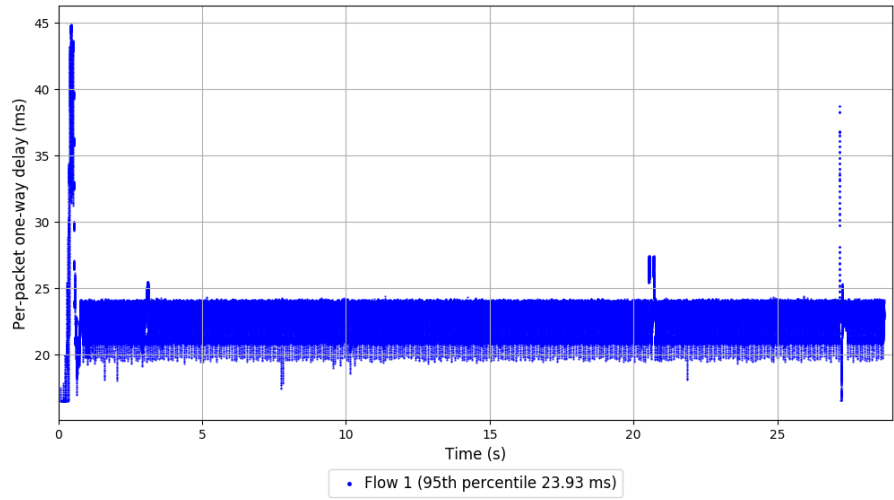
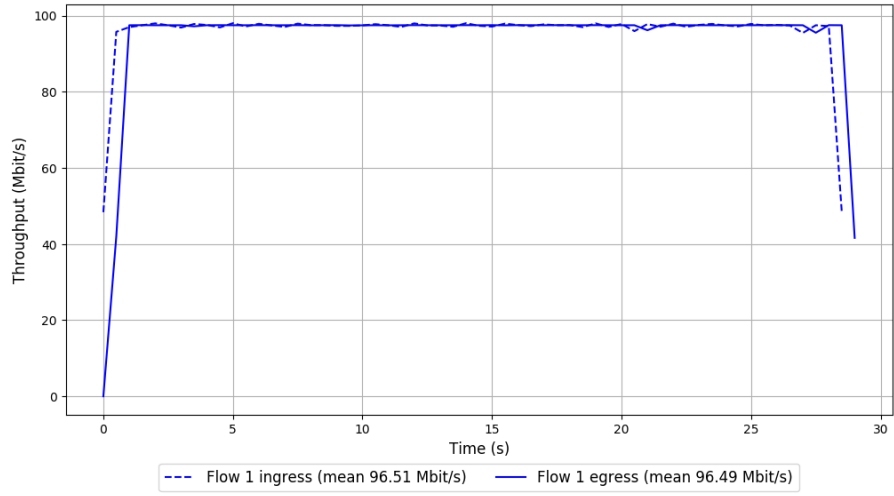
-- Flow 1:

Average throughput: 96.49 Mbit/s

95th percentile per-packet one-way delay: 23.926 ms

Loss rate: 0.20%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MuseST

Start at: 2019-09-18 17:31:41

End at: 2019-09-18 17:32:11

Local clock offset: 2.826 ms

Remote clock offset: 2.38 ms

Below is generated by plot.py at 2019-09-18 18:08:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.55 Mbit/s

95th percentile per-packet one-way delay: 28.288 ms

Loss rate: 0.21%

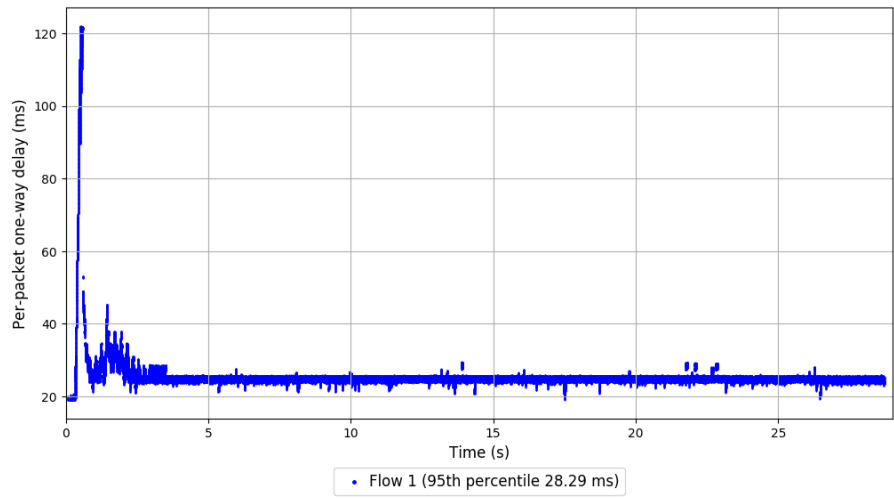
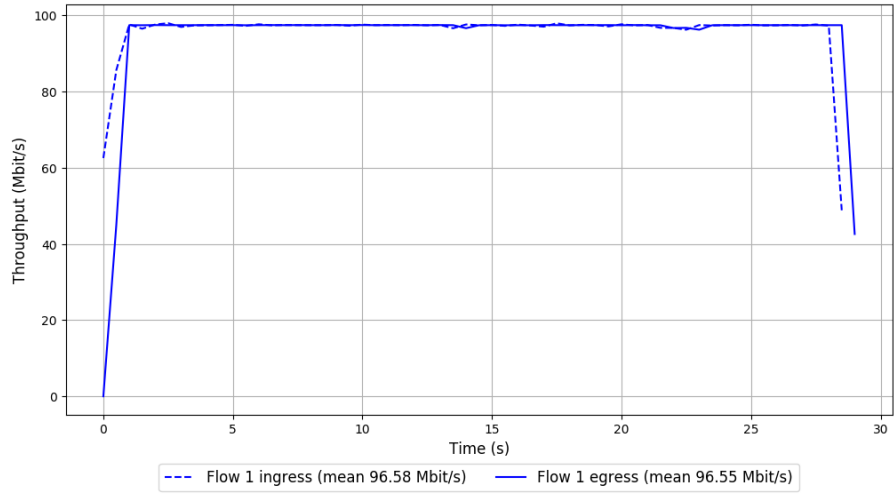
-- Flow 1:

Average throughput: 96.55 Mbit/s

95th percentile per-packet one-way delay: 28.288 ms

Loss rate: 0.21%

Run 5: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2019-09-18 15:49:32

End at: 2019-09-18 15:50:02

Local clock offset: 1.993 ms

Remote clock offset: 5.566 ms

Below is generated by plot.py at 2019-09-18 18:08:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.20 Mbit/s

95th percentile per-packet one-way delay: 23.731 ms

Loss rate: 0.12%

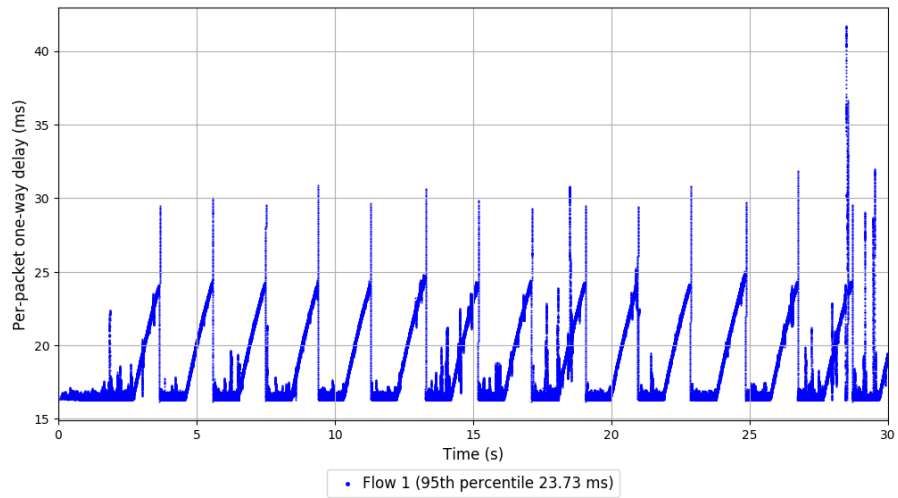
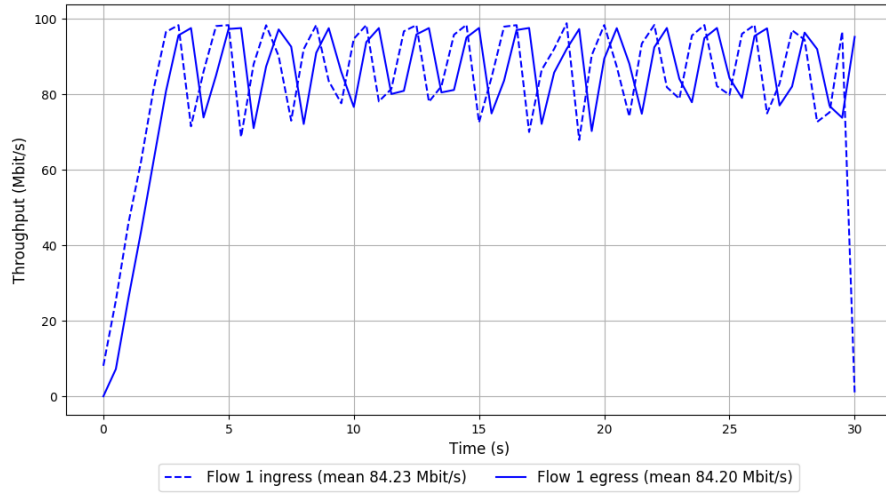
-- Flow 1:

Average throughput: 84.20 Mbit/s

95th percentile per-packet one-way delay: 23.731 ms

Loss rate: 0.12%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-09-18 16:19:30

End at: 2019-09-18 16:20:00

Local clock offset: 6.456 ms

Remote clock offset: 5.855 ms

Below is generated by plot.py at 2019-09-18 18:08:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.62 Mbit/s

95th percentile per-packet one-way delay: 28.893 ms

Loss rate: 0.11%

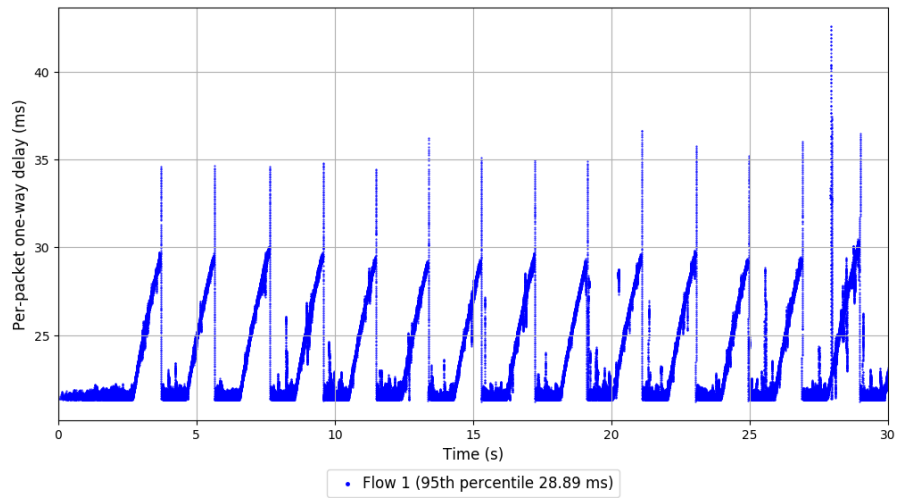
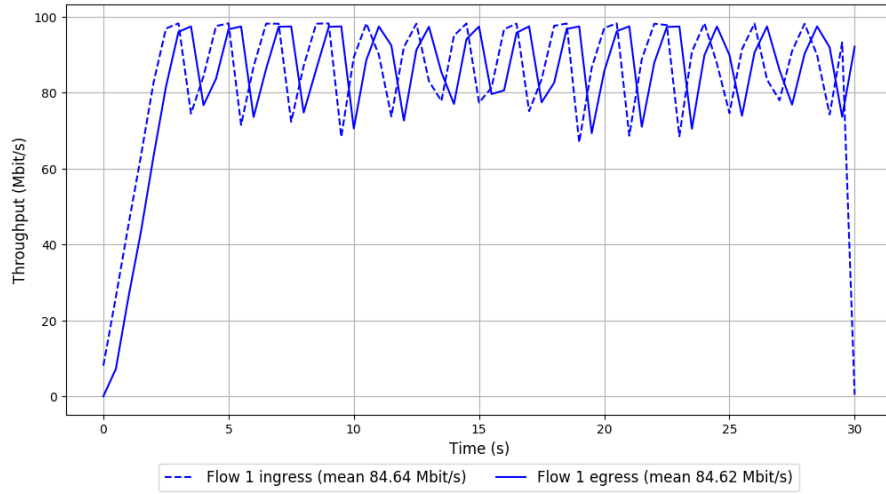
-- Flow 1:

Average throughput: 84.62 Mbit/s

95th percentile per-packet one-way delay: 28.893 ms

Loss rate: 0.11%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-09-18 16:49:17

End at: 2019-09-18 16:49:47

Local clock offset: 5.975 ms

Remote clock offset: 6.437 ms

Below is generated by plot.py at 2019-09-18 18:08:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.63 Mbit/s

95th percentile per-packet one-way delay: 26.745 ms

Loss rate: 0.26%

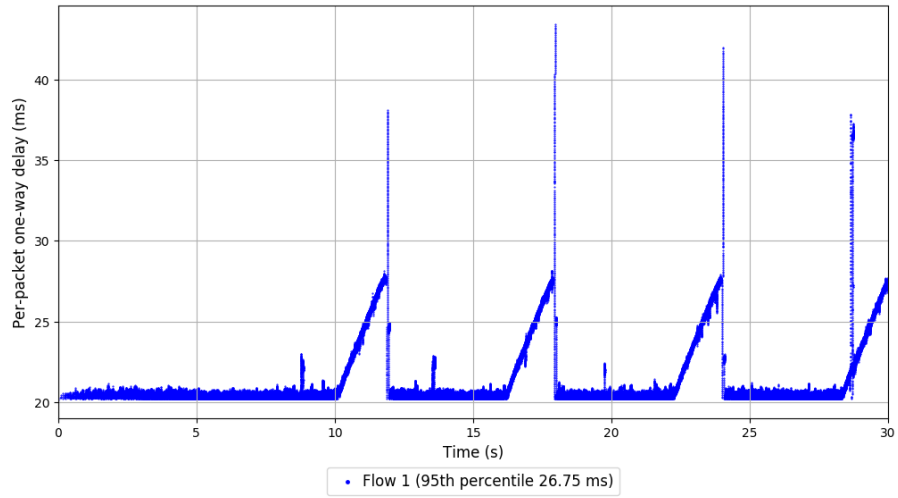
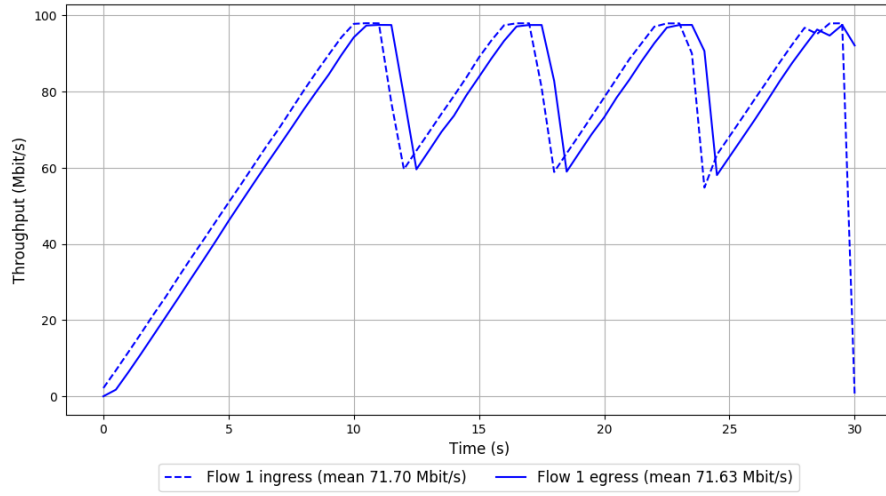
-- Flow 1:

Average throughput: 71.63 Mbit/s

95th percentile per-packet one-way delay: 26.745 ms

Loss rate: 0.26%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-09-18 17:18:13

End at: 2019-09-18 17:18:43

Local clock offset: -0.234 ms

Remote clock offset: 2.138 ms

Below is generated by plot.py at 2019-09-18 18:08:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.73 Mbit/s

95th percentile per-packet one-way delay: 23.587 ms

Loss rate: 0.25%

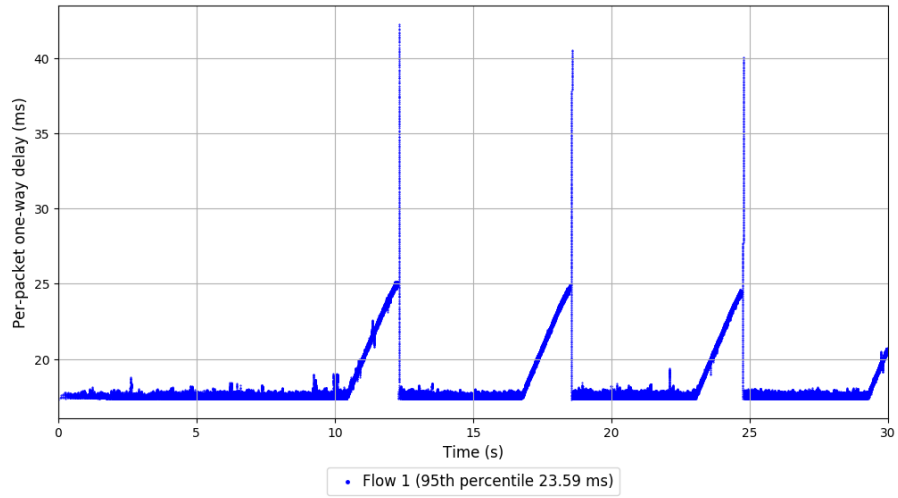
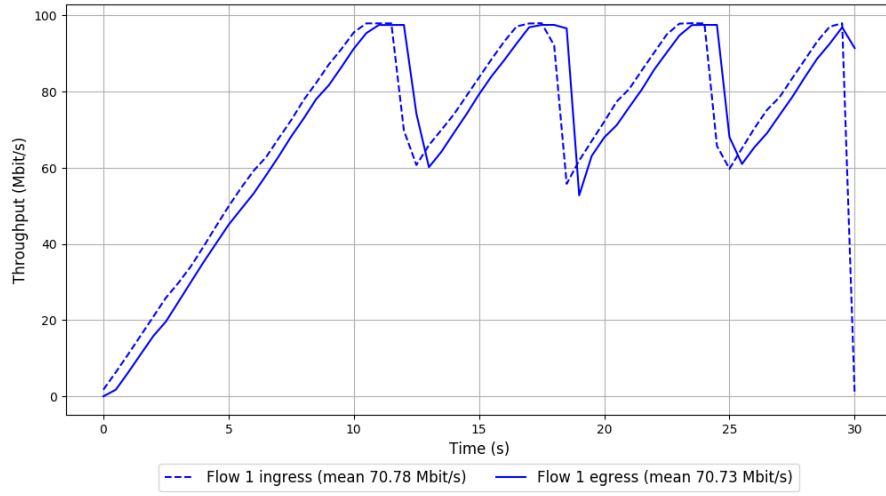
-- Flow 1:

Average throughput: 70.73 Mbit/s

95th percentile per-packet one-way delay: 23.587 ms

Loss rate: 0.25%

Run 4: Report of LEDBAT — Data Link

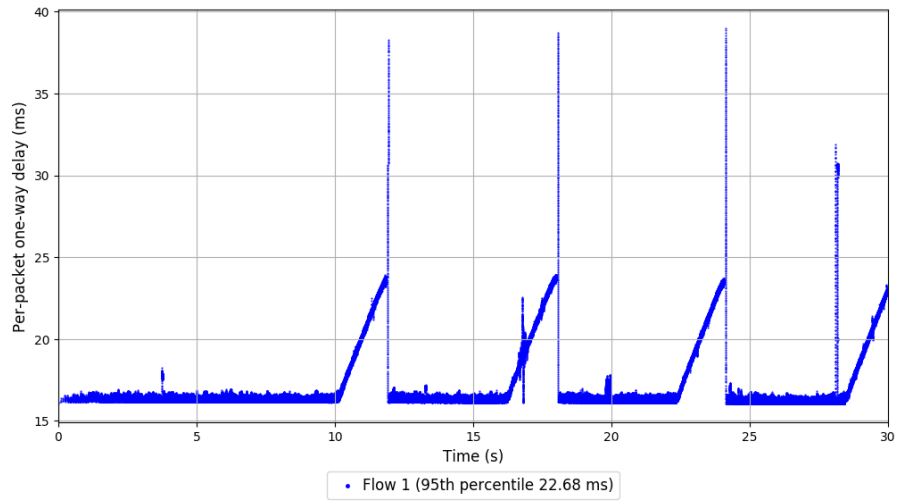
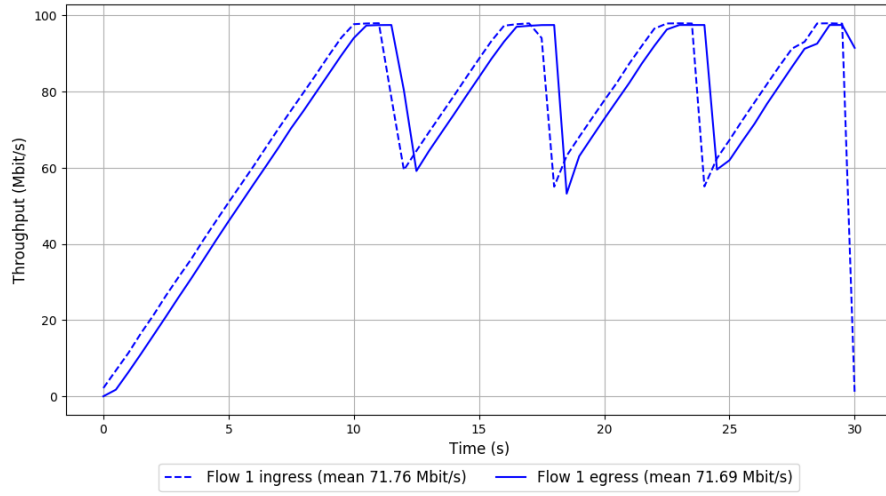


Run 5: Statistics of LEDBAT

Start at: 2019-09-18 17:47:16
End at: 2019-09-18 17:47:46
Local clock offset: -0.946 ms
Remote clock offset: -0.609 ms

```
# Below is generated by plot.py at 2019-09-18 18:08:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.69 Mbit/s
95th percentile per-packet one-way delay: 22.682 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 71.69 Mbit/s
95th percentile per-packet one-way delay: 22.682 ms
Loss rate: 0.26%
```

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses_DecisionTree

Start at: 2019-09-18 15:57:12

End at: 2019-09-18 15:57:42

Local clock offset: 1.472 ms

Remote clock offset: 4.346 ms

Below is generated by plot.py at 2019-09-18 18:09:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.03 Mbit/s

95th percentile per-packet one-way delay: 19.042 ms

Loss rate: 0.09%

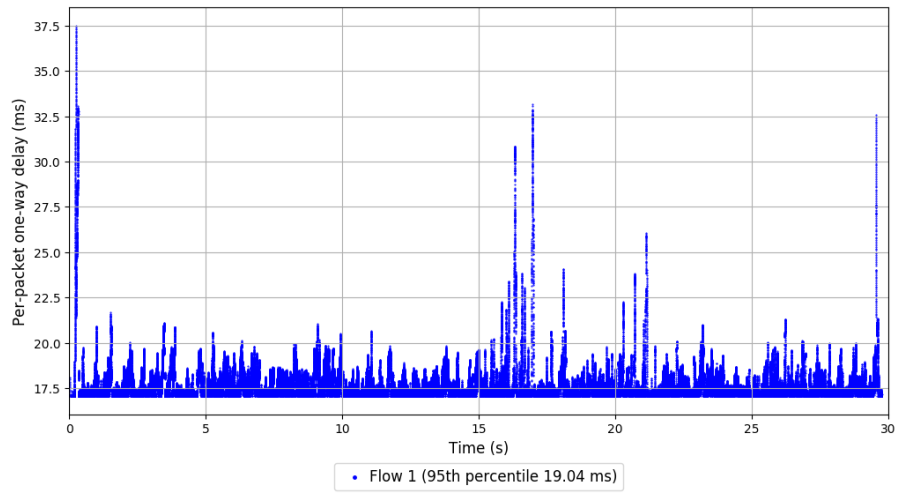
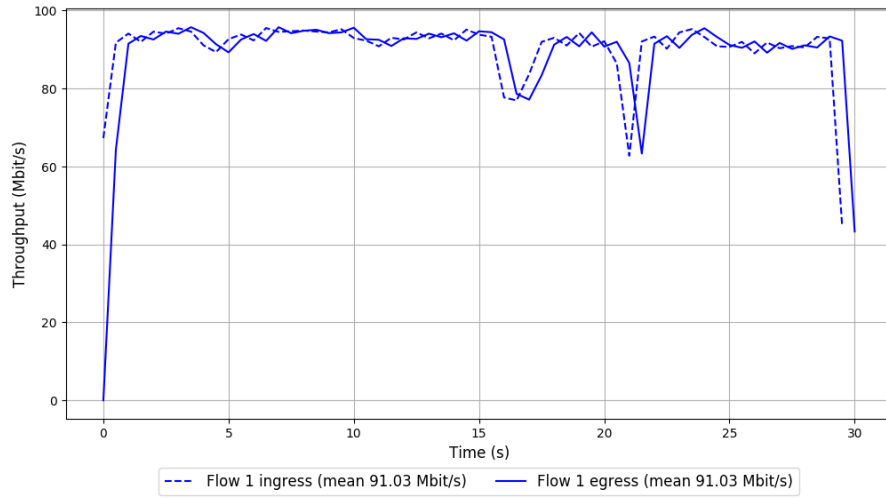
-- Flow 1:

Average throughput: 91.03 Mbit/s

95th percentile per-packet one-way delay: 19.042 ms

Loss rate: 0.09%

Run 1: Report of Muses_DecisionTree — Data Link



Run 2: Statistics of Muses_DecisionTree

Start at: 2019-09-18 16:27:44

End at: 2019-09-18 16:28:14

Local clock offset: 0.881 ms

Remote clock offset: 4.679 ms

Below is generated by plot.py at 2019-09-18 18:09:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.10 Mbit/s

95th percentile per-packet one-way delay: 22.370 ms

Loss rate: 0.18%

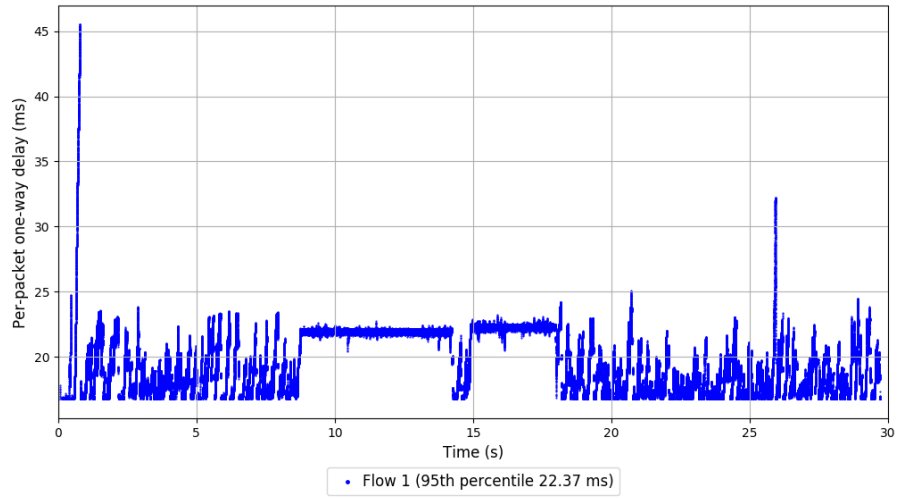
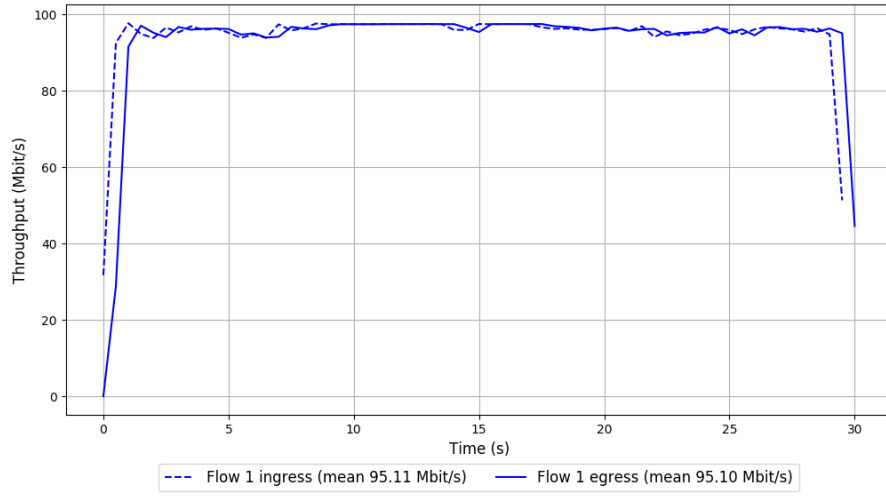
-- Flow 1:

Average throughput: 95.10 Mbit/s

95th percentile per-packet one-way delay: 22.370 ms

Loss rate: 0.18%

Run 2: Report of Muses_DecisionTree — Data Link



Run 3: Statistics of Muses_DecisionTree

Start at: 2019-09-18 16:56:37

End at: 2019-09-18 16:57:07

Local clock offset: 1.067 ms

Remote clock offset: 3.179 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.68 Mbit/s

95th percentile per-packet one-way delay: 22.346 ms

Loss rate: 0.15%

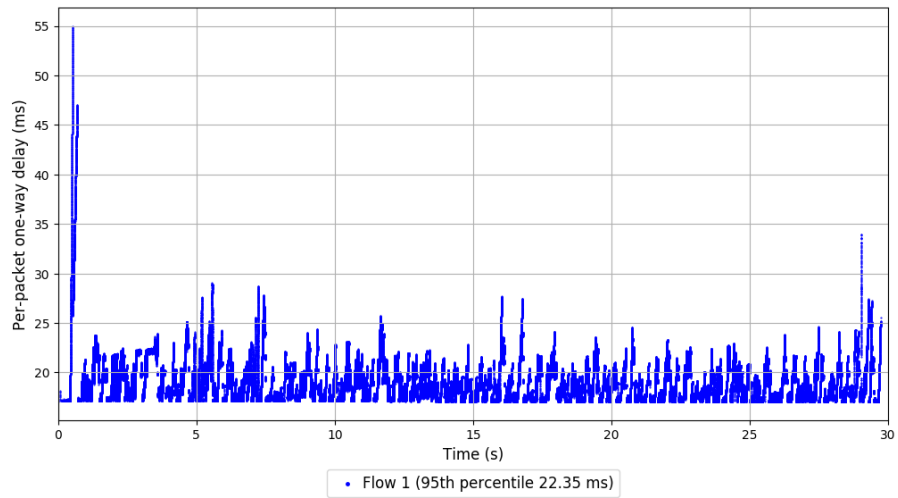
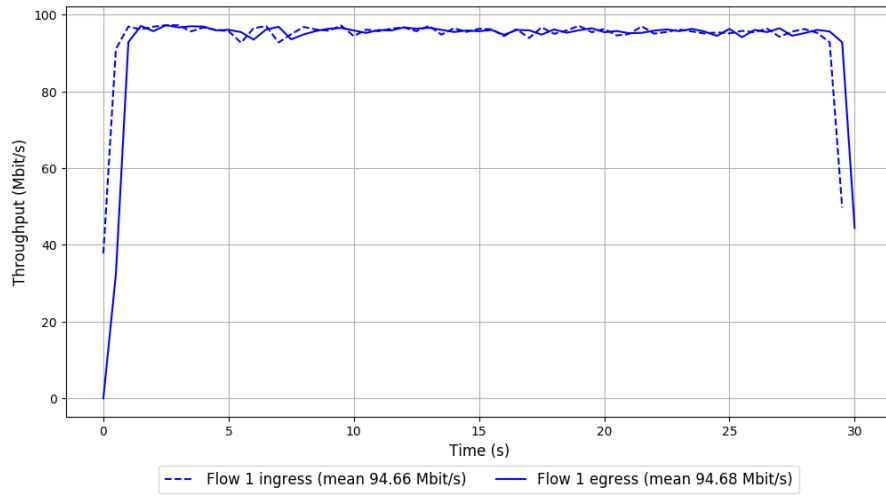
-- Flow 1:

Average throughput: 94.68 Mbit/s

95th percentile per-packet one-way delay: 22.346 ms

Loss rate: 0.15%

Run 3: Report of Muses_DecisionTree — Data Link



Run 4: Statistics of Muses_DecisionTree

Start at: 2019-09-18 17:25:45

End at: 2019-09-18 17:26:15

Local clock offset: 3.846 ms

Remote clock offset: 2.04 ms

Below is generated by plot.py at 2019-09-18 18:09:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.63 Mbit/s

95th percentile per-packet one-way delay: 27.499 ms

Loss rate: 0.18%

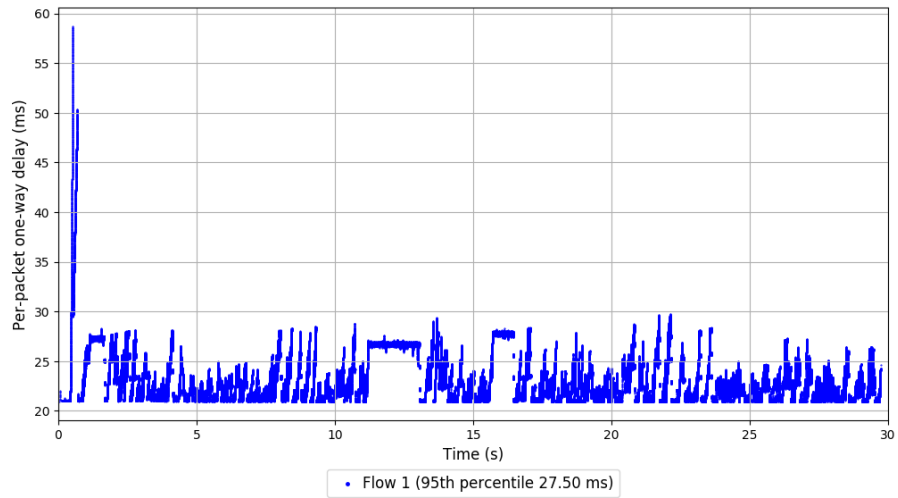
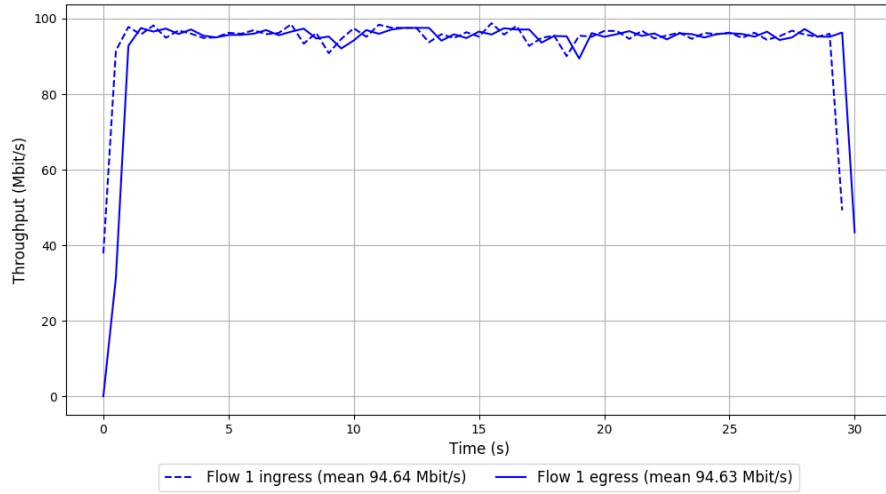
-- Flow 1:

Average throughput: 94.63 Mbit/s

95th percentile per-packet one-way delay: 27.499 ms

Loss rate: 0.18%

Run 4: Report of Muses_DecisionTree — Data Link

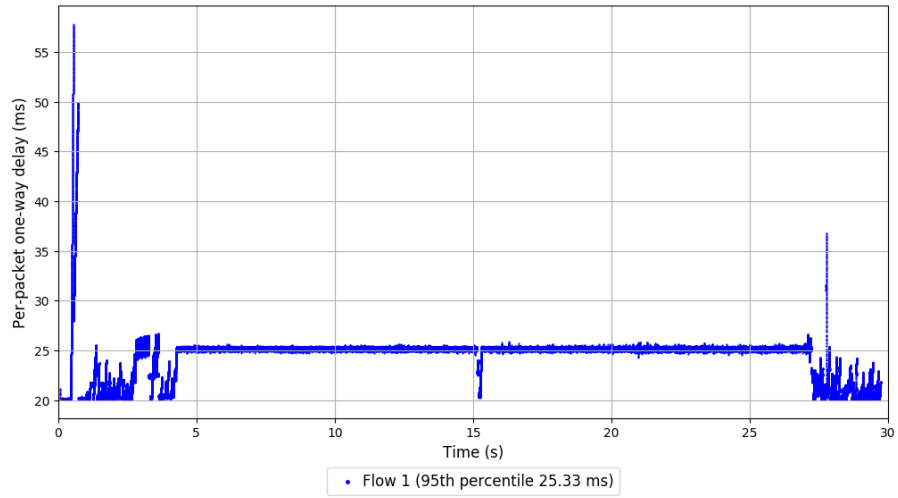
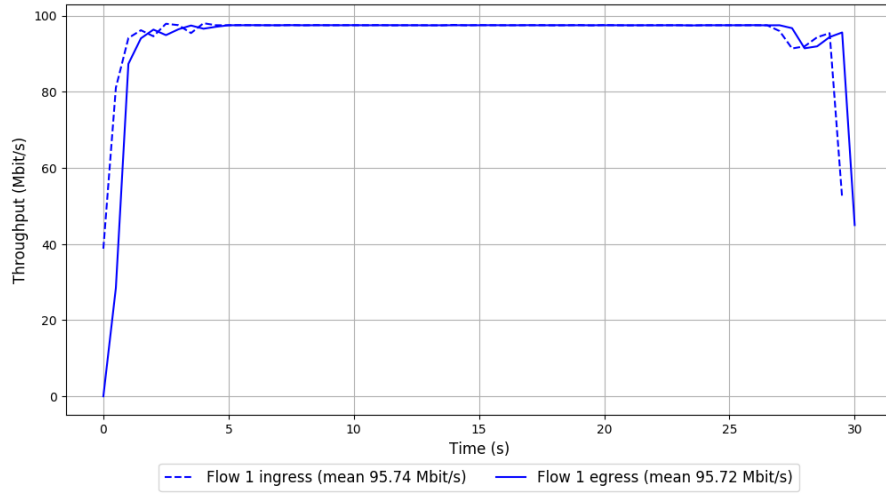


Run 5: Statistics of Muses_DecisionTree

Start at: 2019-09-18 17:54:47
End at: 2019-09-18 17:55:17
Local clock offset: 3.279 ms
Remote clock offset: -0.874 ms

Below is generated by plot.py at 2019-09-18 18:09:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.72 Mbit/s
95th percentile per-packet one-way delay: 25.333 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 95.72 Mbit/s
95th percentile per-packet one-way delay: 25.333 ms
Loss rate: 0.19%

Run 5: Report of Muses_DecisionTree — Data Link



Run 1: Statistics of Muses_DecisionTreeH0

Start at: 2019-09-18 15:48:22

End at: 2019-09-18 15:48:52

Local clock offset: 6.306 ms

Remote clock offset: 5.297 ms

Below is generated by plot.py at 2019-09-18 18:09:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.06 Mbit/s

95th percentile per-packet one-way delay: 27.174 ms

Loss rate: 0.11%

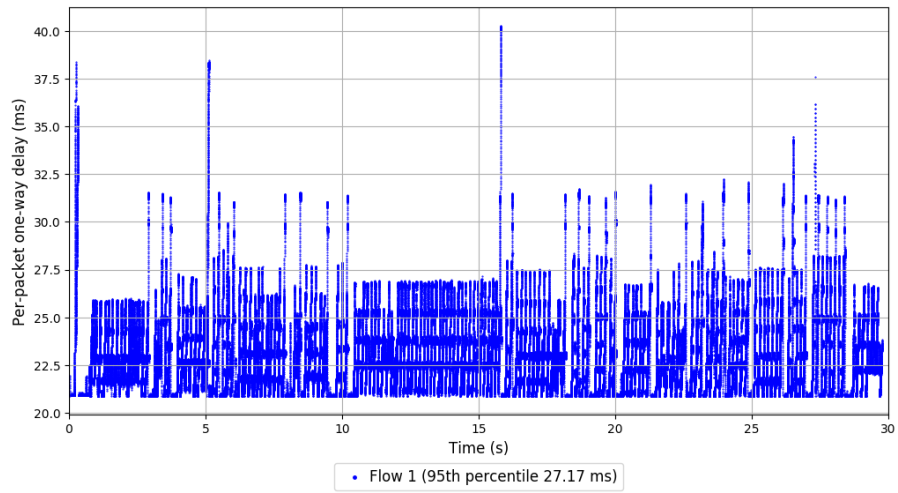
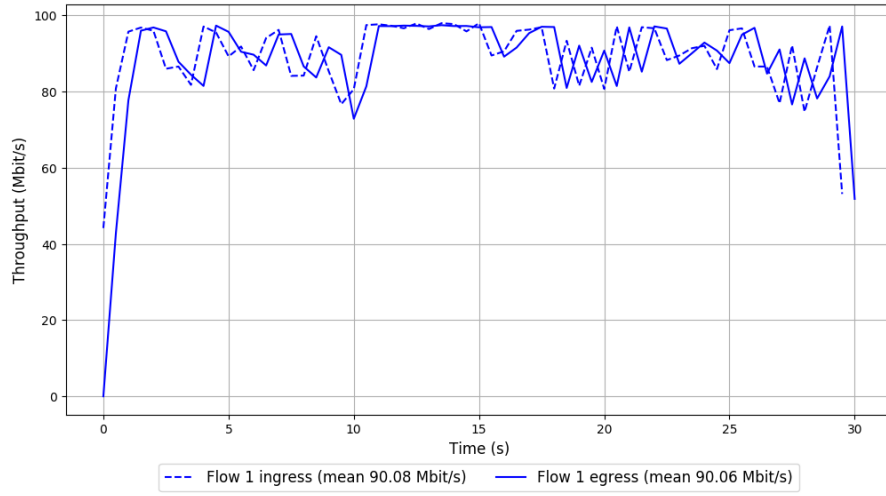
-- Flow 1:

Average throughput: 90.06 Mbit/s

95th percentile per-packet one-way delay: 27.174 ms

Loss rate: 0.11%

Run 1: Report of Muses_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2019-09-18 16:18:16

End at: 2019-09-18 16:18:46

Local clock offset: 2.364 ms

Remote clock offset: 4.799 ms

Below is generated by plot.py at 2019-09-18 18:09:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.97 Mbit/s

95th percentile per-packet one-way delay: 23.827 ms

Loss rate: 0.10%

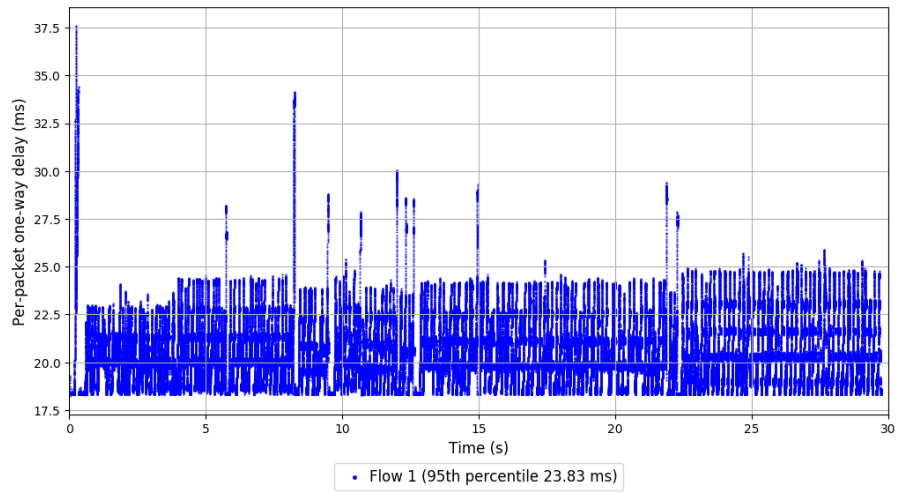
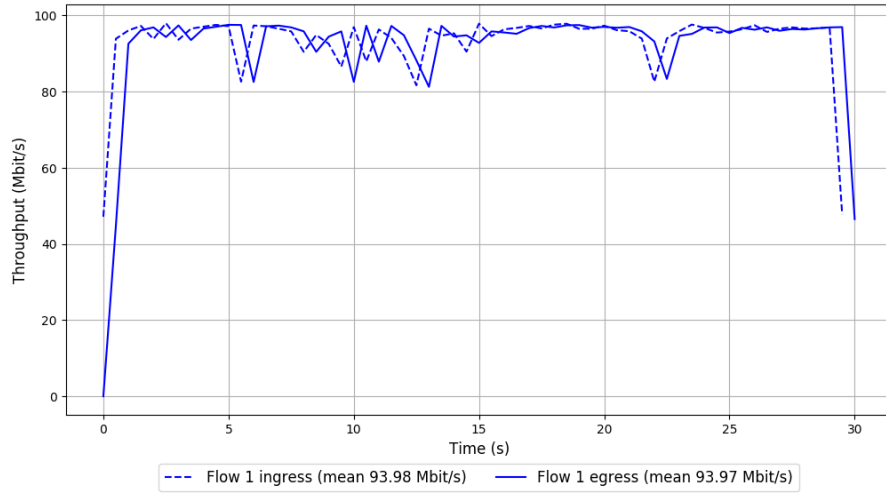
-- Flow 1:

Average throughput: 93.97 Mbit/s

95th percentile per-packet one-way delay: 23.827 ms

Loss rate: 0.10%

Run 2: Report of Muses_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2019-09-18 16:48:07

End at: 2019-09-18 16:48:37

Local clock offset: 1.384 ms

Remote clock offset: 5.978 ms

Below is generated by plot.py at 2019-09-18 18:09:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.66 Mbit/s

95th percentile per-packet one-way delay: 23.814 ms

Loss rate: 0.23%

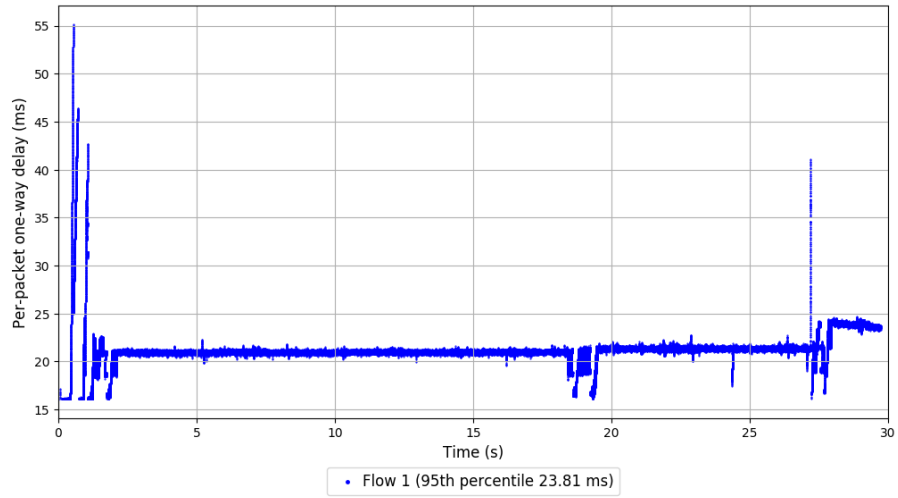
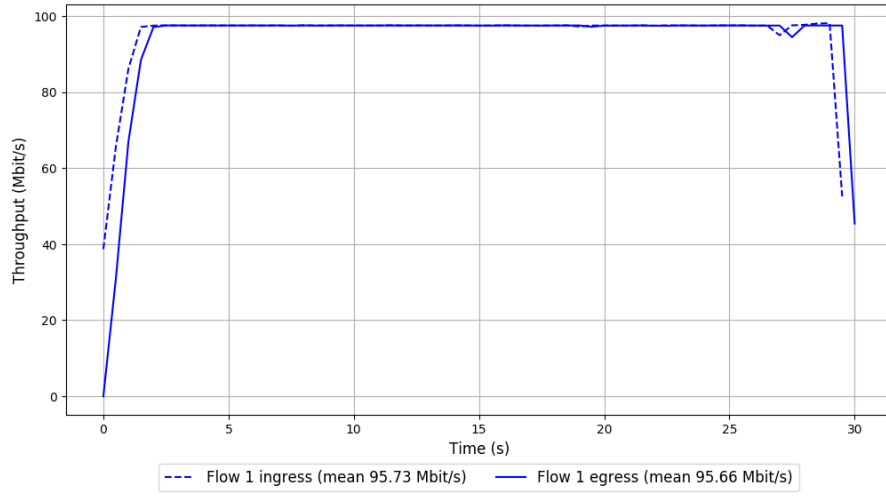
-- Flow 1:

Average throughput: 95.66 Mbit/s

95th percentile per-packet one-way delay: 23.814 ms

Loss rate: 0.23%

Run 3: Report of Muses_DecisionTreeH0 — Data Link



Run 4: Statistics of Muses_DecisionTreeH0

Start at: 2019-09-18 17:16:59

End at: 2019-09-18 17:17:29

Local clock offset: -3.055 ms

Remote clock offset: 2.093 ms

Below is generated by plot.py at 2019-09-18 18:10:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.68 Mbit/s

95th percentile per-packet one-way delay: 23.331 ms

Loss rate: 0.37%

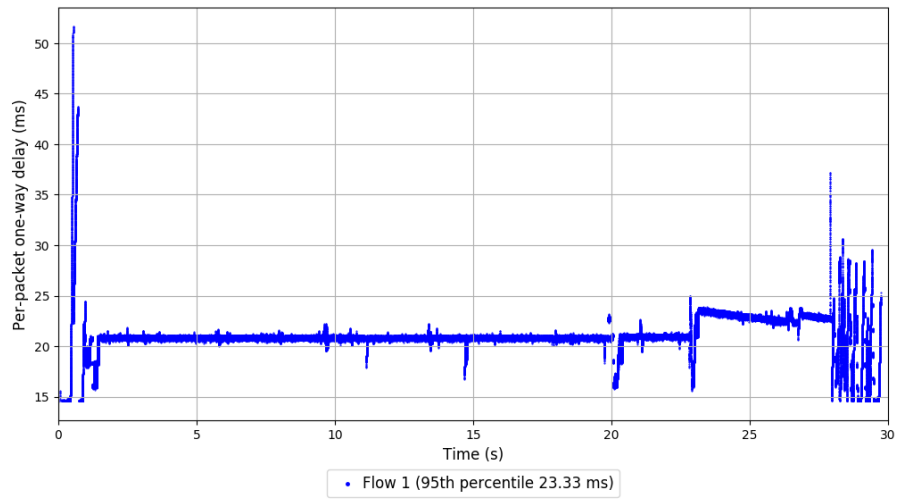
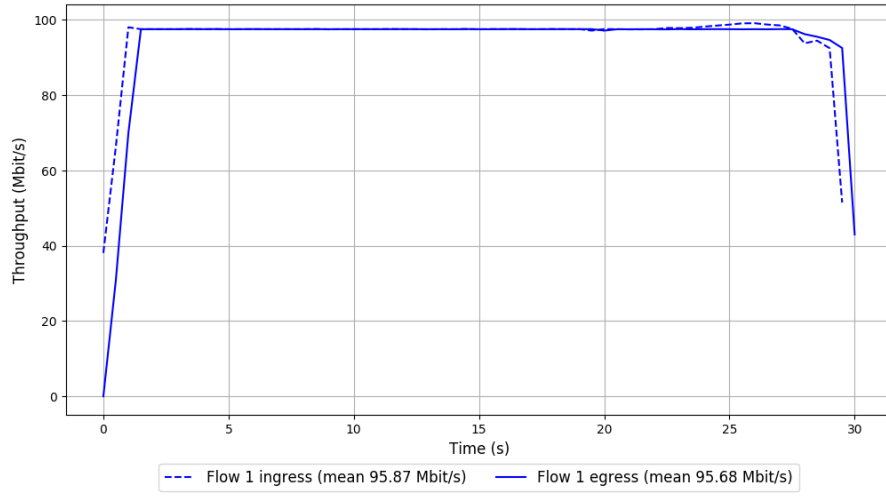
-- Flow 1:

Average throughput: 95.68 Mbit/s

95th percentile per-packet one-way delay: 23.331 ms

Loss rate: 0.37%

Run 4: Report of Muses_DecisionTreeH0 — Data Link

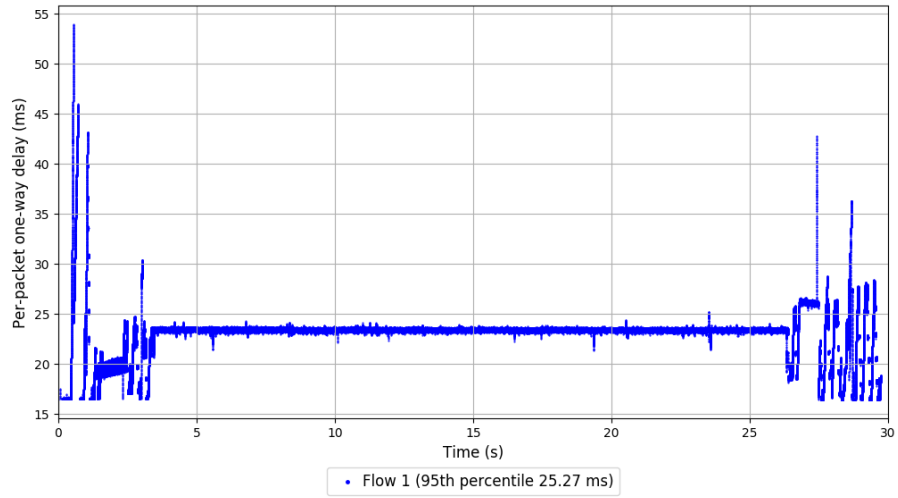
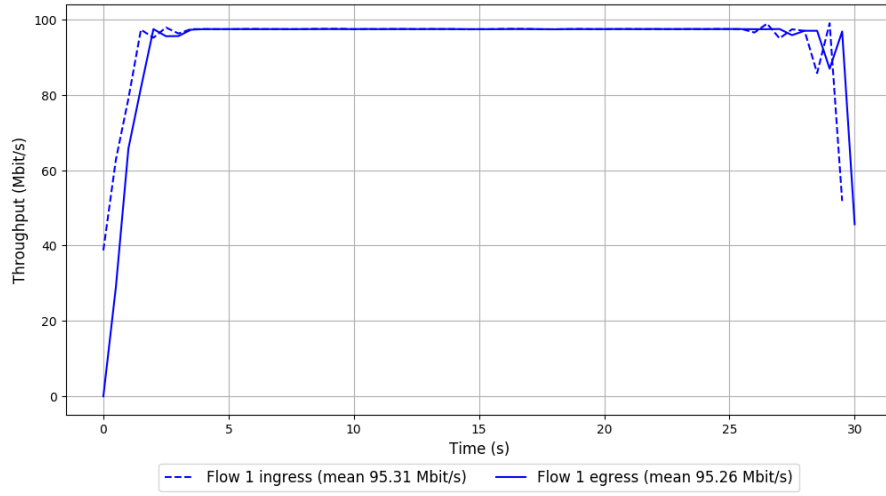


Run 5: Statistics of Muses_DecisionTreeH0

Start at: 2019-09-18 17:46:05
End at: 2019-09-18 17:46:35
Local clock offset: -0.449 ms
Remote clock offset: -0.415 ms

Below is generated by plot.py at 2019-09-18 18:10:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.26 Mbit/s
95th percentile per-packet one-way delay: 25.274 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 95.26 Mbit/s
95th percentile per-packet one-way delay: 25.274 ms
Loss rate: 0.22%

Run 5: Report of Muses_DecisionTreeH0 — Data Link



Run 1: Statistics of Muses_DecisionTreeR0

Start at: 2019-09-18 15:38:12

End at: 2019-09-18 15:38:42

Local clock offset: 1.795 ms

Remote clock offset: 5.041 ms

Below is generated by plot.py at 2019-09-18 18:10:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.70 Mbit/s

95th percentile per-packet one-way delay: 18.004 ms

Loss rate: 0.08%

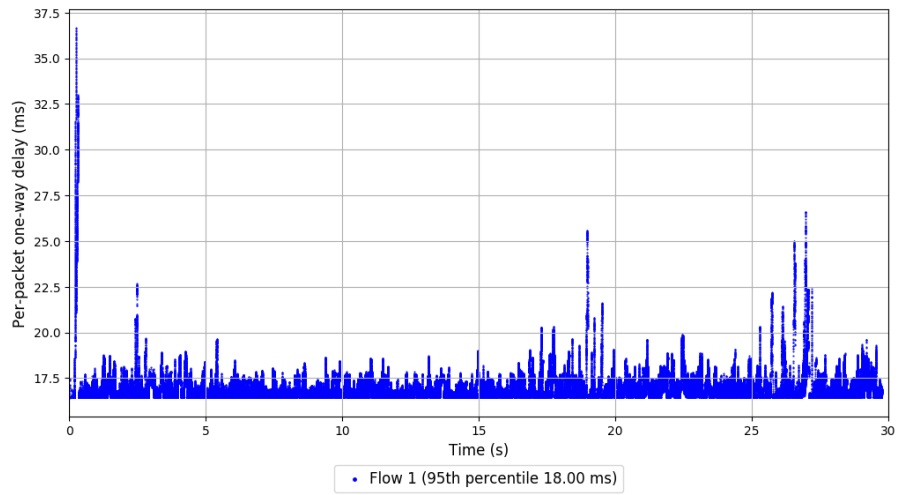
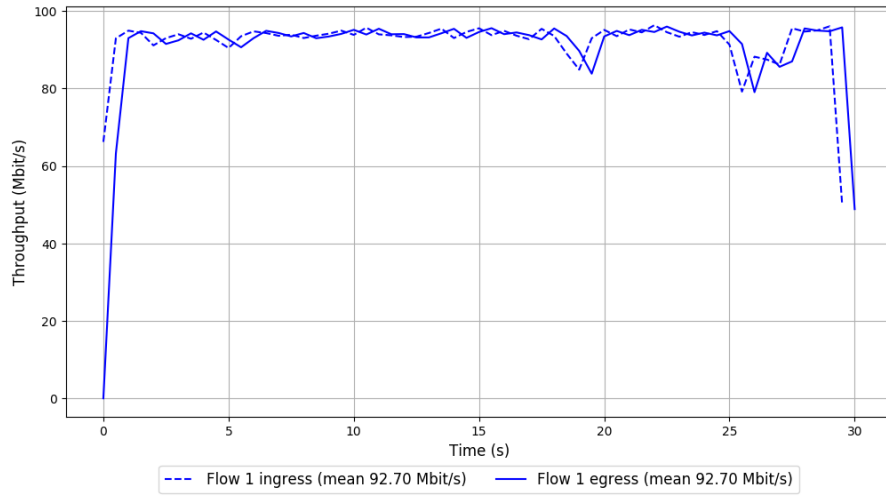
-- Flow 1:

Average throughput: 92.70 Mbit/s

95th percentile per-packet one-way delay: 18.004 ms

Loss rate: 0.08%

Run 1: Report of Muses_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2019-09-18 16:08:32

End at: 2019-09-18 16:09:02

Local clock offset: 1.474 ms

Remote clock offset: 5.649 ms

Below is generated by plot.py at 2019-09-18 18:10:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.53 Mbit/s

95th percentile per-packet one-way delay: 18.244 ms

Loss rate: 0.08%

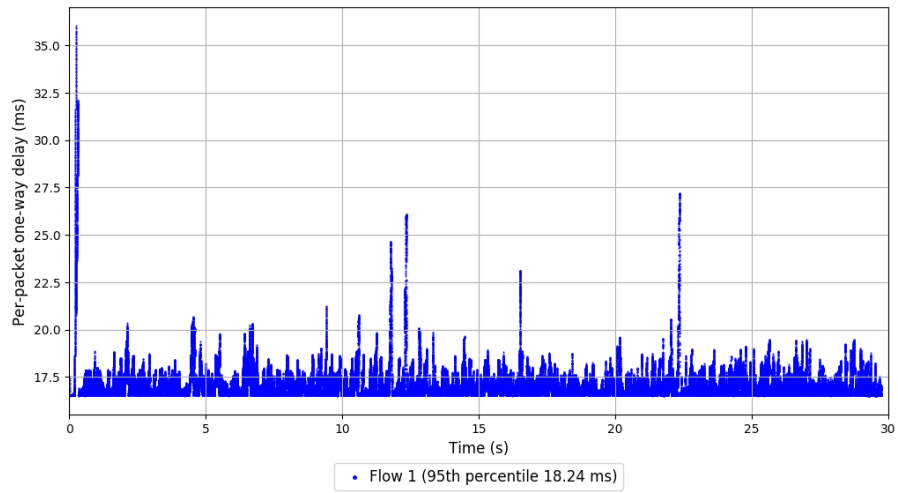
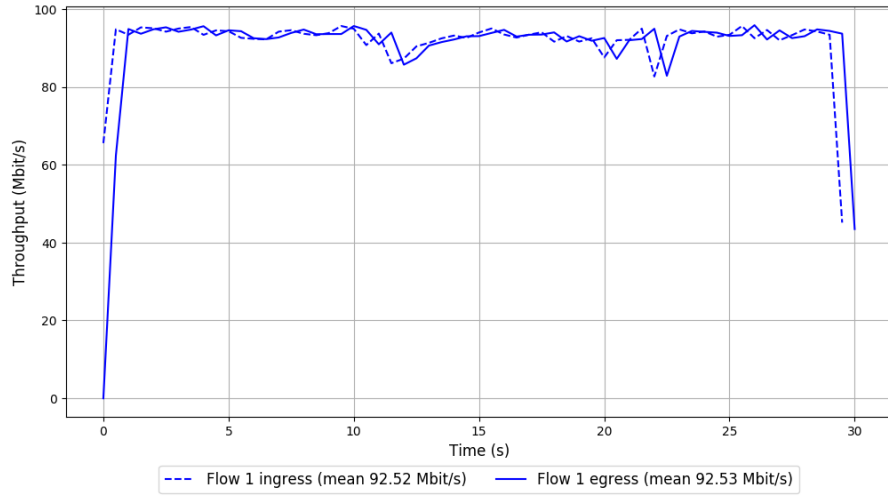
-- Flow 1:

Average throughput: 92.53 Mbit/s

95th percentile per-packet one-way delay: 18.244 ms

Loss rate: 0.08%

Run 2: Report of Muses_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-09-18 16:38:38

End at: 2019-09-18 16:39:08

Local clock offset: 5.454 ms

Remote clock offset: 6.627 ms

Below is generated by plot.py at 2019-09-18 18:10:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.83 Mbit/s

95th percentile per-packet one-way delay: 24.919 ms

Loss rate: 0.19%

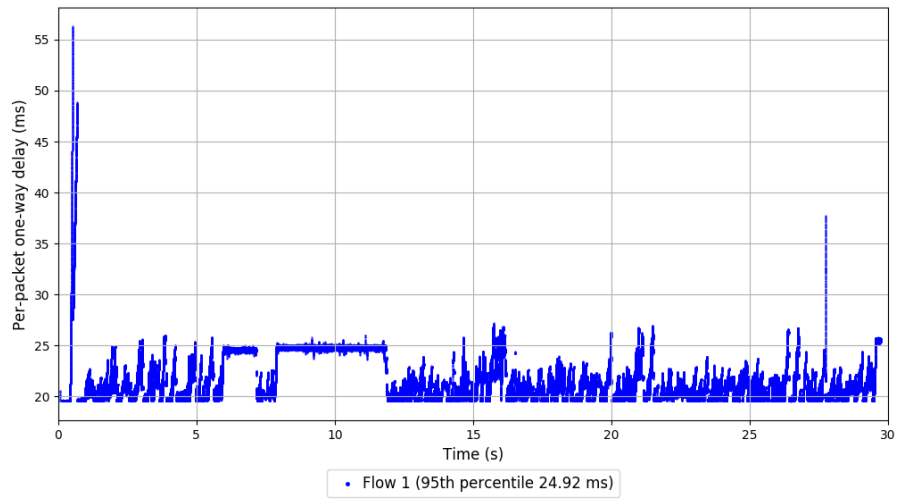
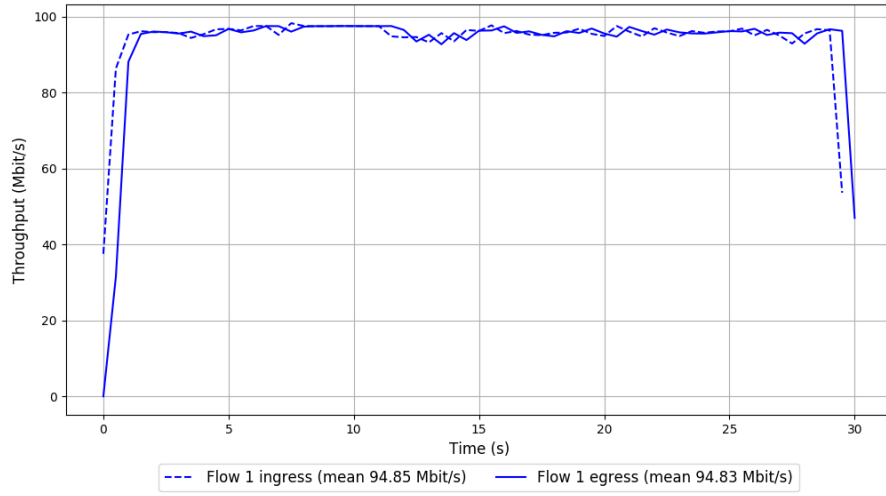
-- Flow 1:

Average throughput: 94.83 Mbit/s

95th percentile per-packet one-way delay: 24.919 ms

Loss rate: 0.19%

Run 3: Report of Muses_DecisionTreeR0 — Data Link



Run 4: Statistics of Muses_DecisionTreeR0

Start at: 2019-09-18 17:07:26

End at: 2019-09-18 17:07:56

Local clock offset: 4.579 ms

Remote clock offset: 1.651 ms

Below is generated by plot.py at 2019-09-18 18:11:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.28 Mbit/s

95th percentile per-packet one-way delay: 28.563 ms

Loss rate: 0.19%

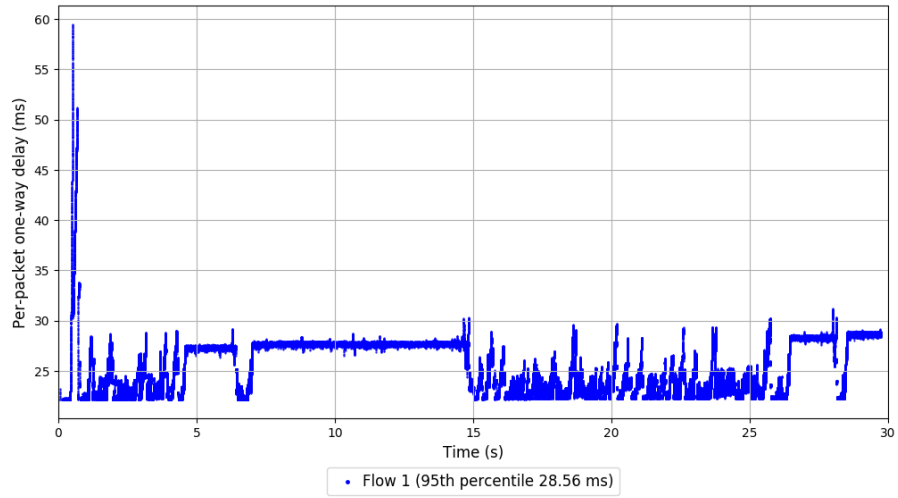
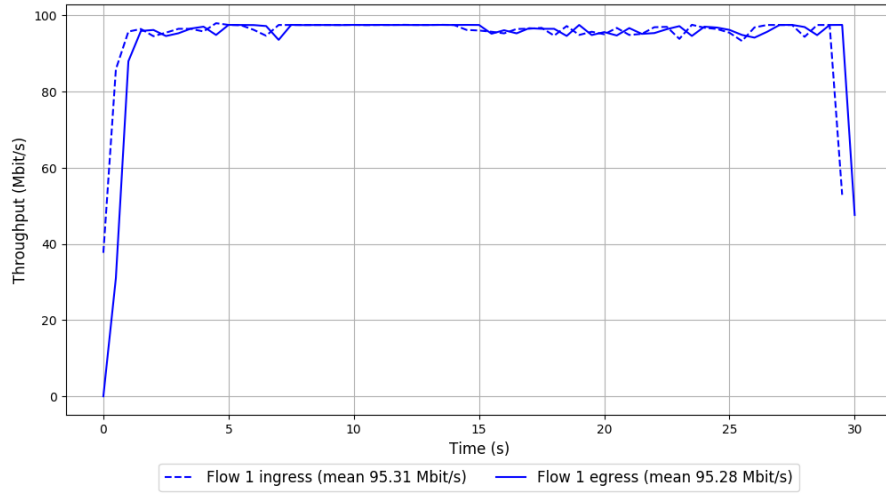
-- Flow 1:

Average throughput: 95.28 Mbit/s

95th percentile per-packet one-way delay: 28.563 ms

Loss rate: 0.19%

Run 4: Report of Muses_DecisionTreeR0 — Data Link

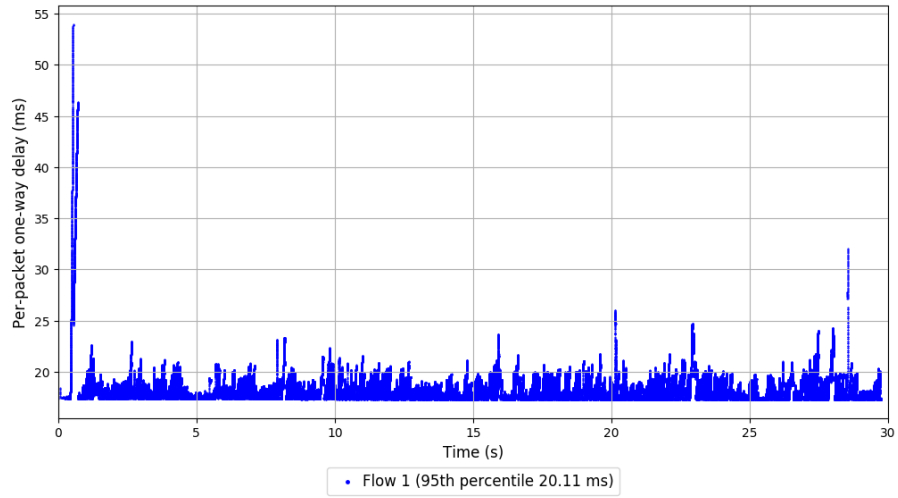
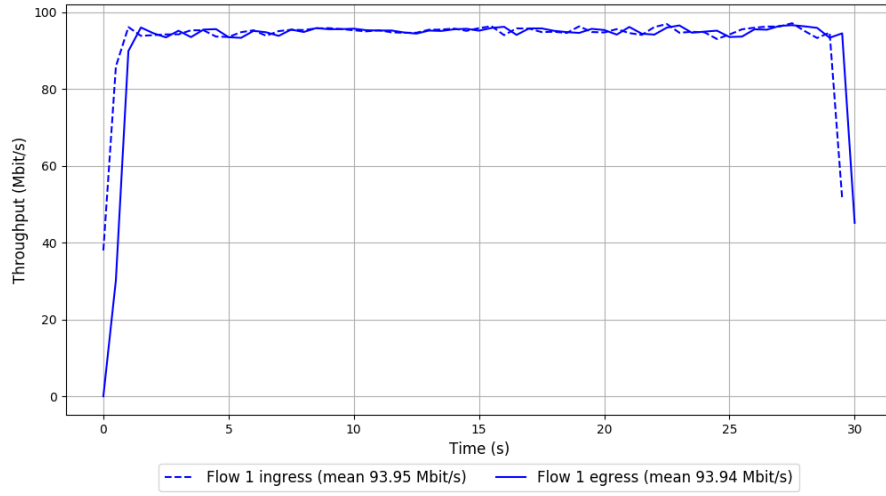


Run 5: Statistics of Muses_DecisionTreeR0

Start at: 2019-09-18 17:36:36
End at: 2019-09-18 17:37:06
Local clock offset: -0.667 ms
Remote clock offset: -0.311 ms

Below is generated by plot.py at 2019-09-18 18:11:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.94 Mbit/s
95th percentile per-packet one-way delay: 20.107 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 93.94 Mbit/s
95th percentile per-packet one-way delay: 20.107 ms
Loss rate: 0.18%

Run 5: Report of Muses_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-09-18 15:42:14

End at: 2019-09-18 15:42:44

Local clock offset: 6.416 ms

Remote clock offset: 5.525 ms

Below is generated by plot.py at 2019-09-18 18:11:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.61 Mbit/s

95th percentile per-packet one-way delay: 27.533 ms

Loss rate: 0.10%

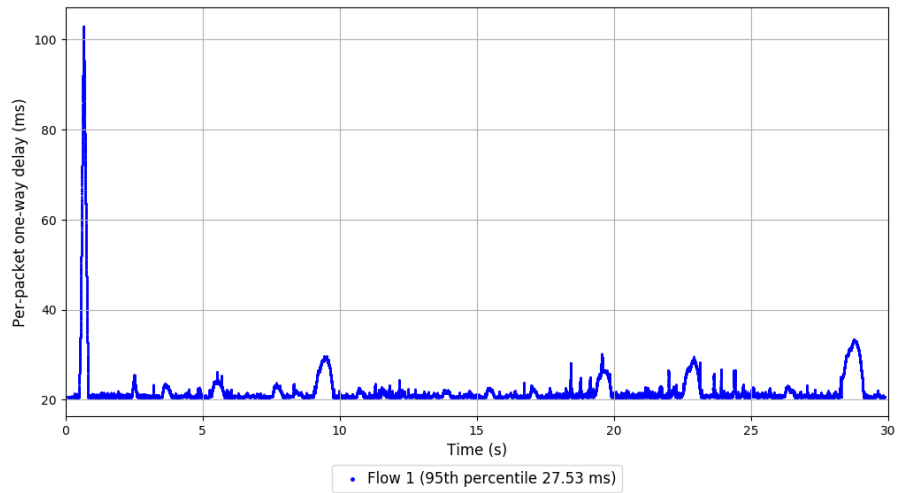
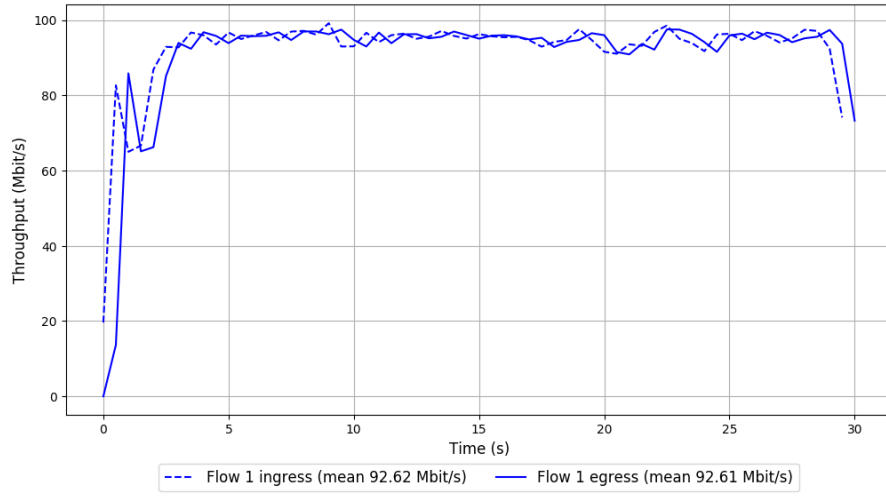
-- Flow 1:

Average throughput: 92.61 Mbit/s

95th percentile per-packet one-way delay: 27.533 ms

Loss rate: 0.10%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-09-18 16:12:11

End at: 2019-09-18 16:12:41

Local clock offset: 1.941 ms

Remote clock offset: 5.333 ms

Below is generated by plot.py at 2019-09-18 18:11:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.46 Mbit/s

95th percentile per-packet one-way delay: 20.258 ms

Loss rate: 0.09%

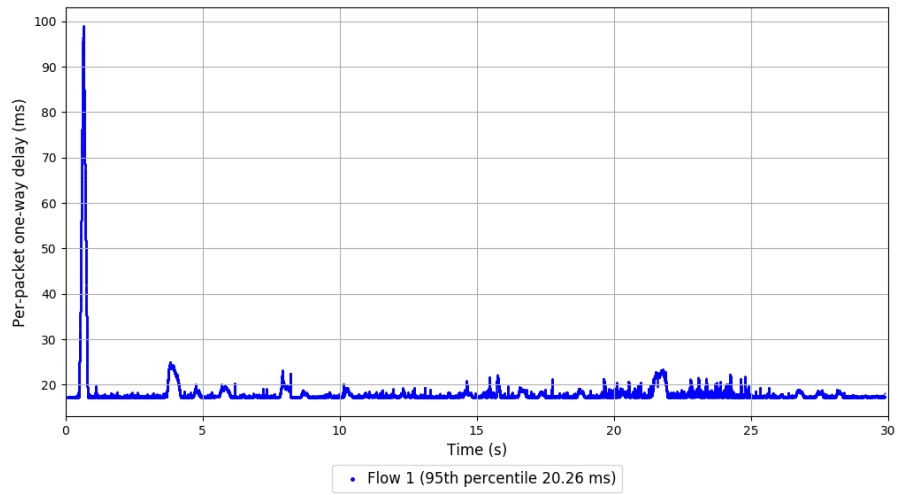
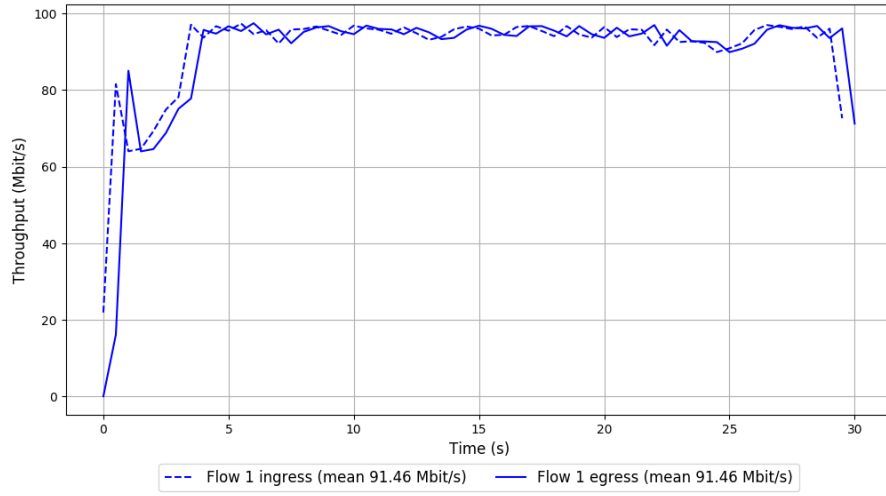
-- Flow 1:

Average throughput: 91.46 Mbit/s

95th percentile per-packet one-way delay: 20.258 ms

Loss rate: 0.09%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-09-18 16:42:06

End at: 2019-09-18 16:42:36

Local clock offset: 6.234 ms

Remote clock offset: 6.349 ms

Below is generated by plot.py at 2019-09-18 18:11:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.66 Mbit/s

95th percentile per-packet one-way delay: 30.463 ms

Loss rate: 0.21%

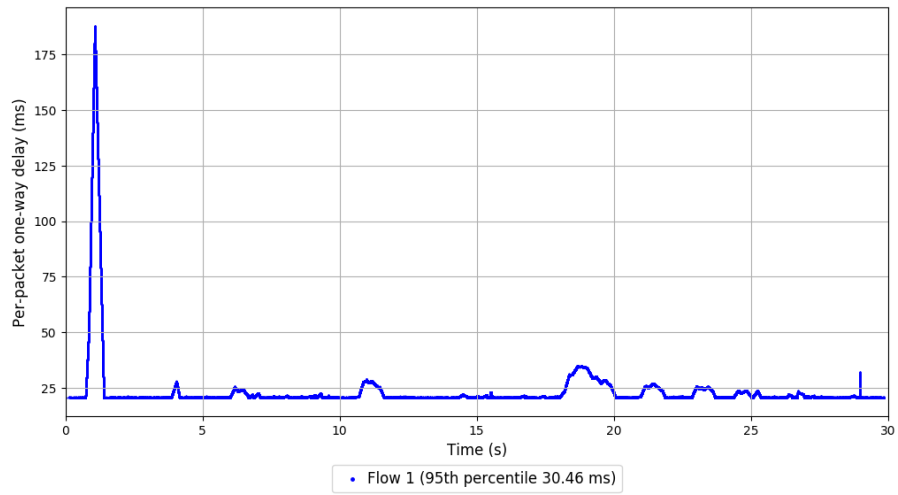
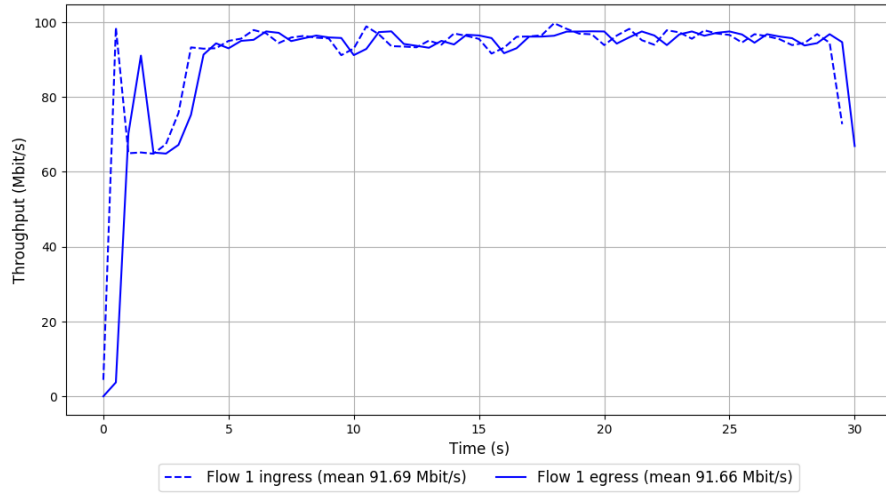
-- Flow 1:

Average throughput: 91.66 Mbit/s

95th percentile per-packet one-way delay: 30.463 ms

Loss rate: 0.21%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-09-18 17:11:04

End at: 2019-09-18 17:11:34

Local clock offset: 0.09 ms

Remote clock offset: 3.413 ms

Below is generated by plot.py at 2019-09-18 18:11:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.46 Mbit/s

95th percentile per-packet one-way delay: 25.185 ms

Loss rate: 0.20%

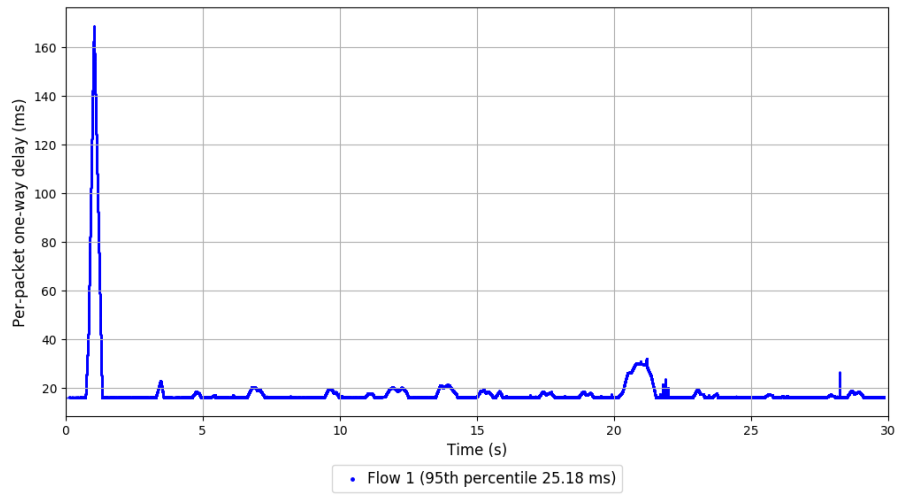
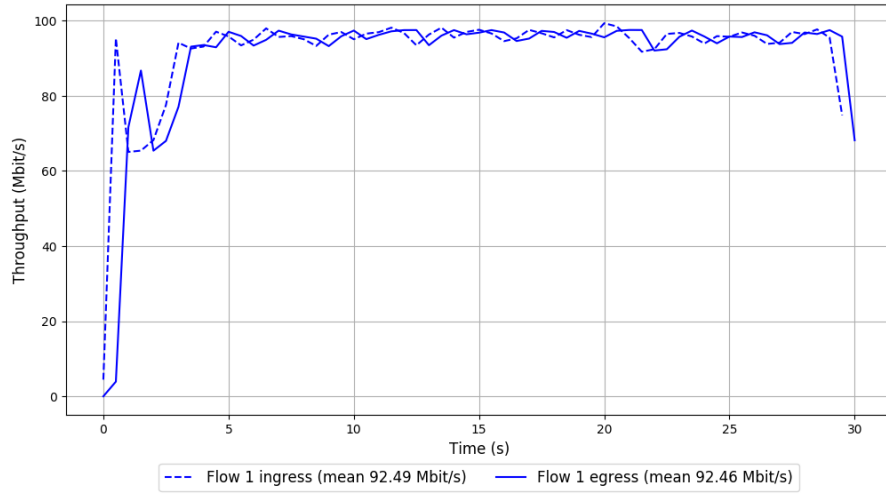
-- Flow 1:

Average throughput: 92.46 Mbit/s

95th percentile per-packet one-way delay: 25.185 ms

Loss rate: 0.20%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-09-18 17:40:14

End at: 2019-09-18 17:40:44

Local clock offset: -1.552 ms

Remote clock offset: -0.527 ms

Below is generated by plot.py at 2019-09-18 18:11:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.00 Mbit/s

95th percentile per-packet one-way delay: 21.209 ms

Loss rate: 0.20%

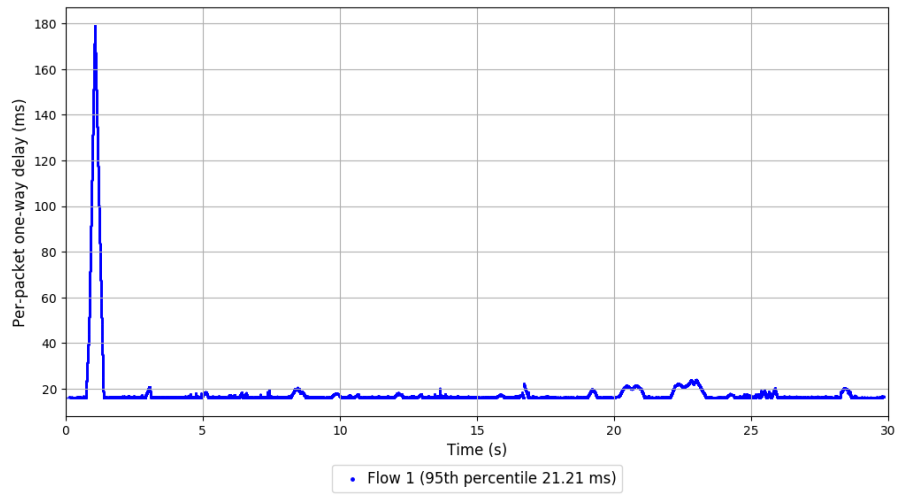
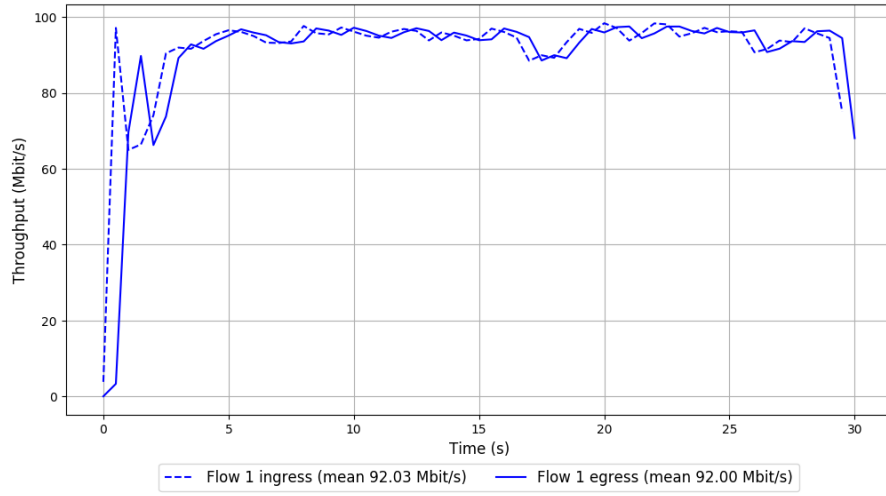
-- Flow 1:

Average throughput: 92.00 Mbit/s

95th percentile per-packet one-way delay: 21.209 ms

Loss rate: 0.20%

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2019-09-18 15:54:30

End at: 2019-09-18 15:55:00

Local clock offset: 5.851 ms

Remote clock offset: 4.155 ms

Below is generated by plot.py at 2019-09-18 18:12:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.04 Mbit/s

95th percentile per-packet one-way delay: 42.912 ms

Loss rate: 0.12%

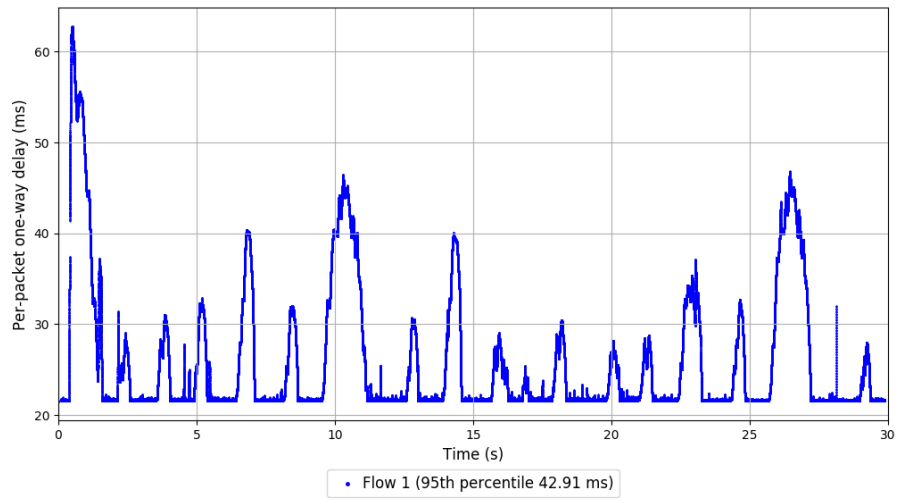
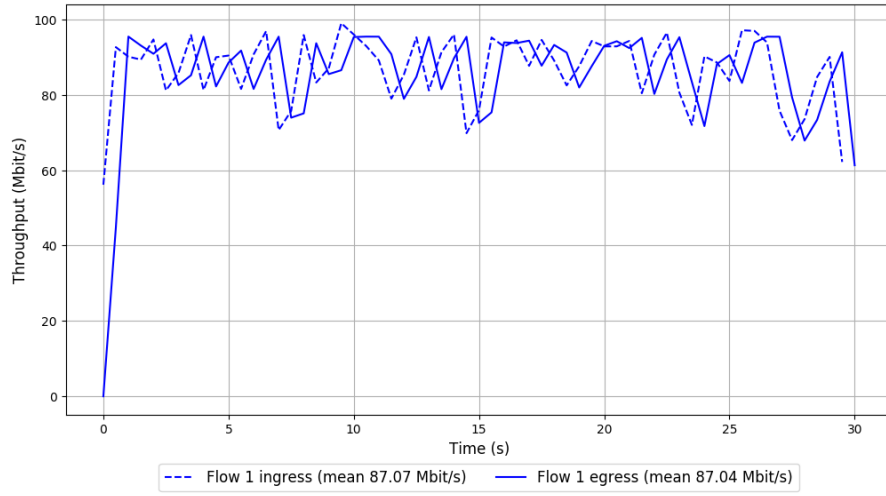
-- Flow 1:

Average throughput: 87.04 Mbit/s

95th percentile per-packet one-way delay: 42.912 ms

Loss rate: 0.12%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-09-18 16:24:56

End at: 2019-09-18 16:25:26

Local clock offset: 5.802 ms

Remote clock offset: 6.367 ms

Below is generated by plot.py at 2019-09-18 18:12:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.25 Mbit/s

95th percentile per-packet one-way delay: 112.071 ms

Loss rate: 0.29%

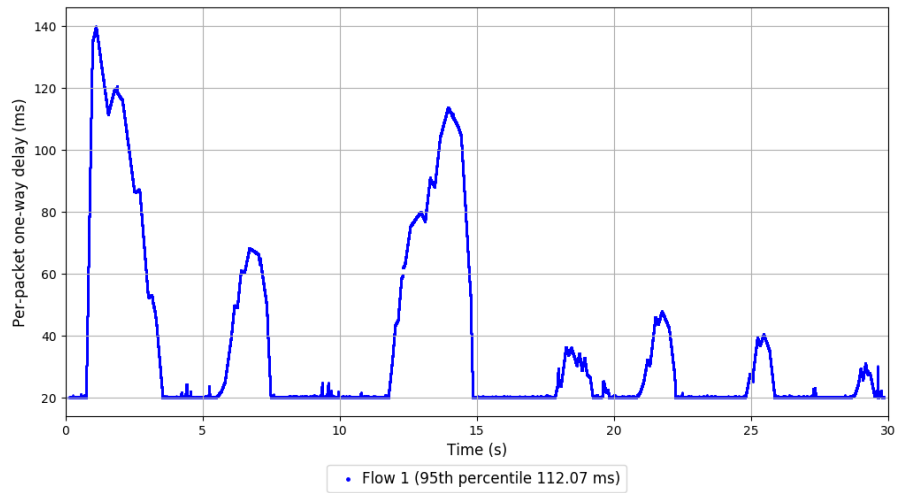
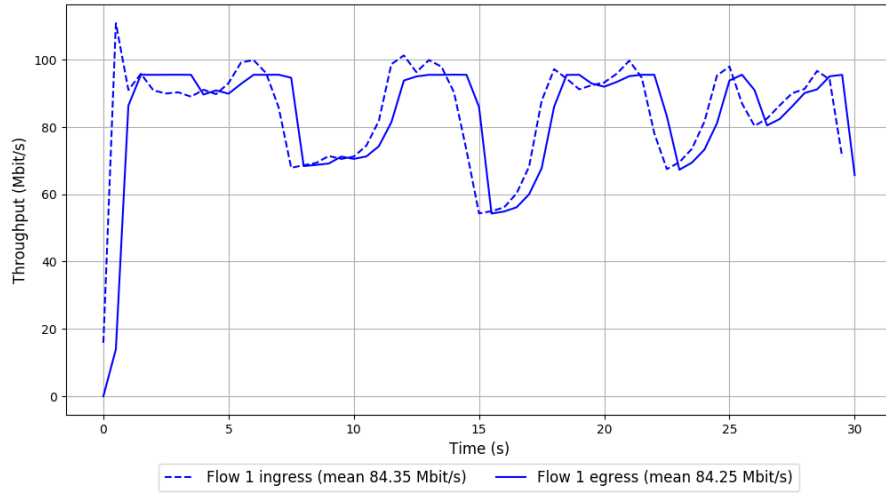
-- Flow 1:

Average throughput: 84.25 Mbit/s

95th percentile per-packet one-way delay: 112.071 ms

Loss rate: 0.29%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-09-18 16:54:08

End at: 2019-09-18 16:54:38

Local clock offset: 1.242 ms

Remote clock offset: 4.796 ms

Below is generated by plot.py at 2019-09-18 18:12:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.75 Mbit/s

95th percentile per-packet one-way delay: 98.984 ms

Loss rate: 0.20%

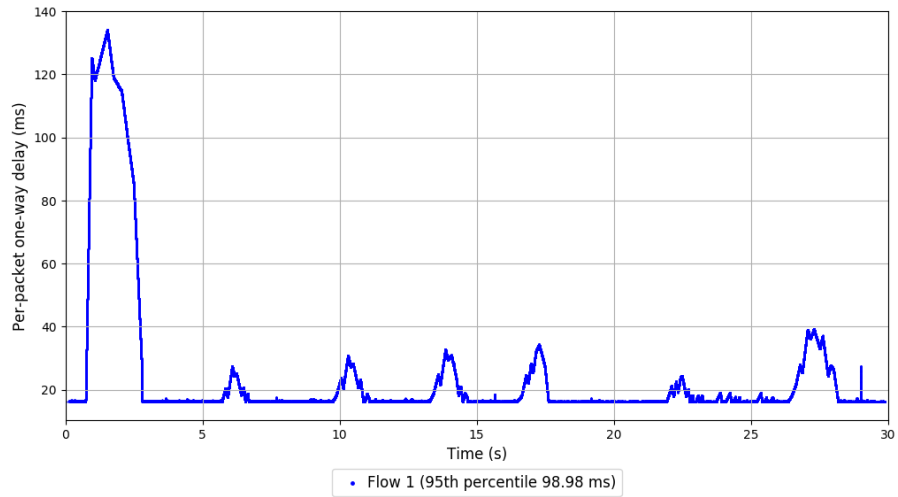
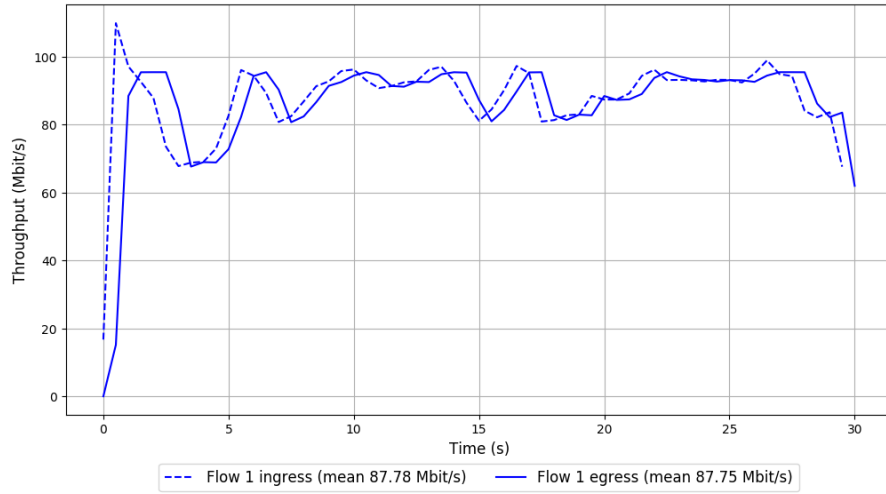
-- Flow 1:

Average throughput: 87.75 Mbit/s

95th percentile per-packet one-way delay: 98.984 ms

Loss rate: 0.20%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-09-18 17:23:08

End at: 2019-09-18 17:23:38

Local clock offset: 3.592 ms

Remote clock offset: 1.896 ms

Below is generated by plot.py at 2019-09-18 18:13:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.09 Mbit/s

95th percentile per-packet one-way delay: 107.265 ms

Loss rate: 0.27%

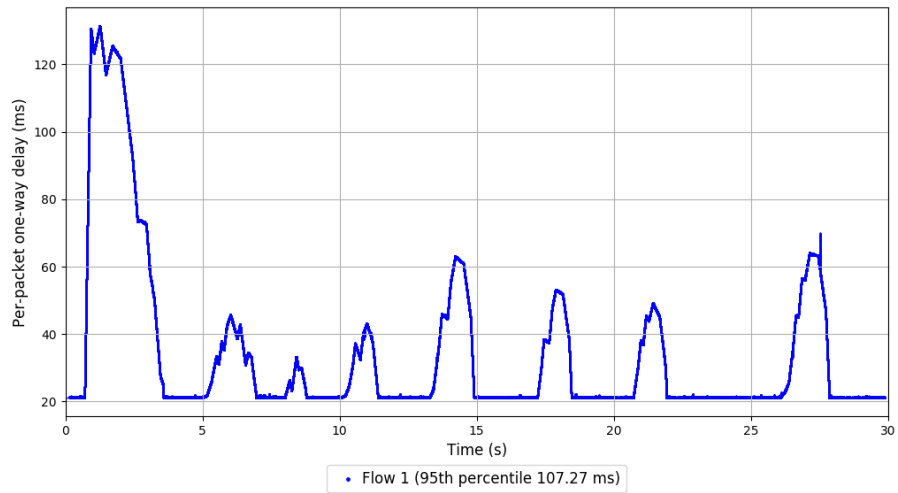
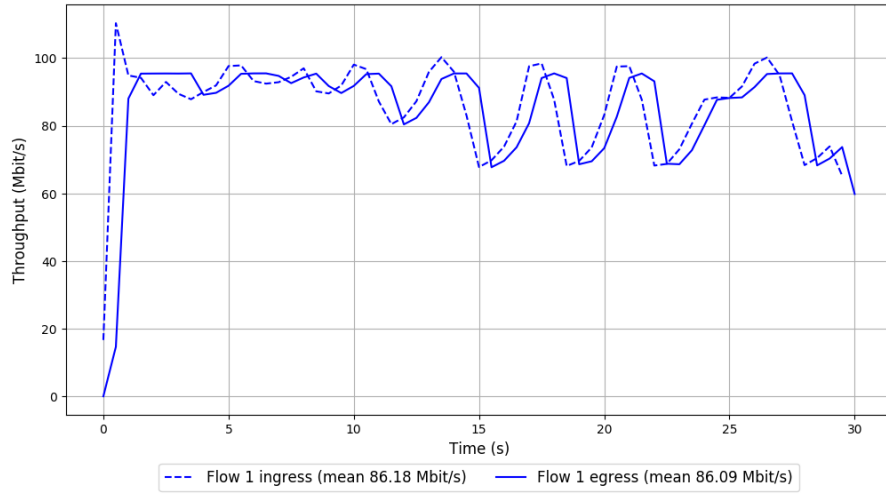
-- Flow 1:

Average throughput: 86.09 Mbit/s

95th percentile per-packet one-way delay: 107.265 ms

Loss rate: 0.27%

Run 4: Report of PCC-Expr — Data Link

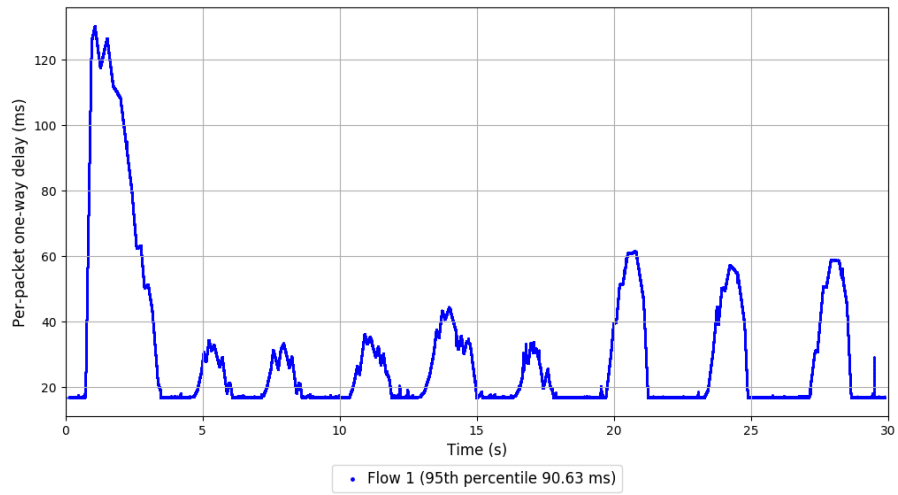
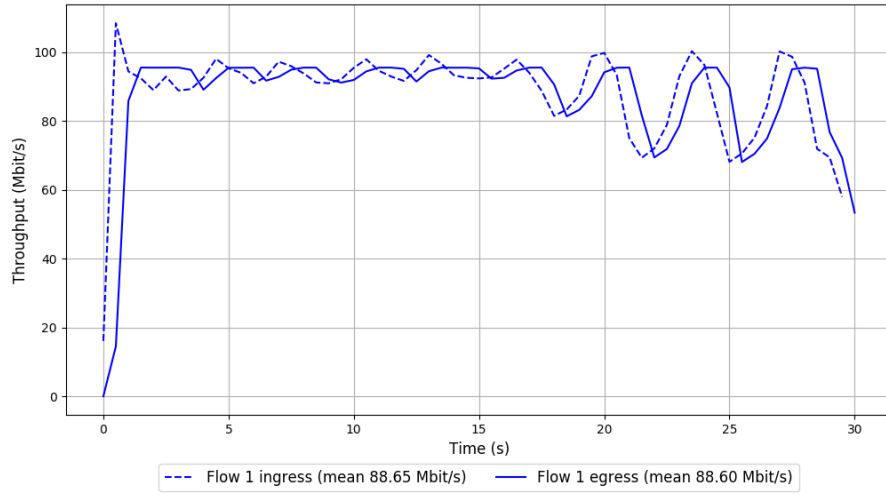


Run 5: Statistics of PCC-Expr

Start at: 2019-09-18 17:52:17
End at: 2019-09-18 17:52:47
Local clock offset: -0.758 ms
Remote clock offset: -1.538 ms

Below is generated by plot.py at 2019-09-18 18:13:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.60 Mbit/s
95th percentile per-packet one-way delay: 90.628 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 88.60 Mbit/s
95th percentile per-packet one-way delay: 90.628 ms
Loss rate: 0.23%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-09-18 15:58:25

End at: 2019-09-18 15:58:55

Local clock offset: 1.911 ms

Remote clock offset: 5.159 ms

Below is generated by plot.py at 2019-09-18 18:13:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.05 Mbit/s

95th percentile per-packet one-way delay: 24.580 ms

Loss rate: 0.13%

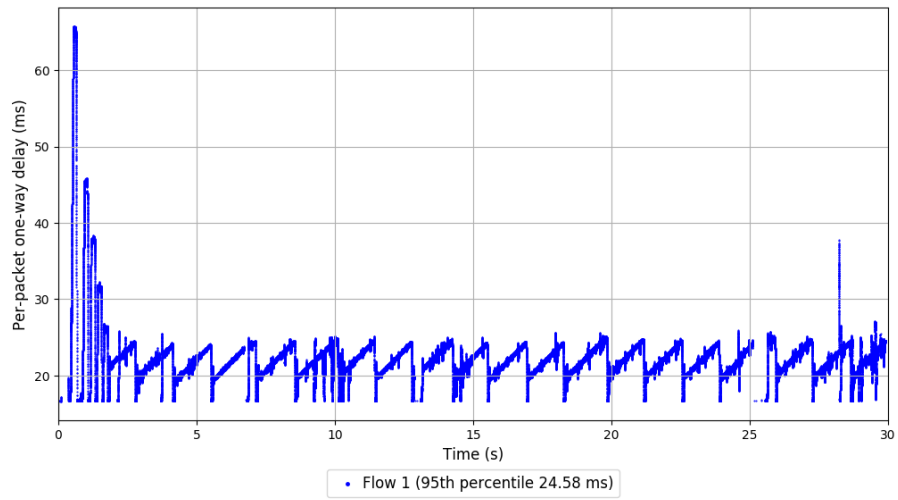
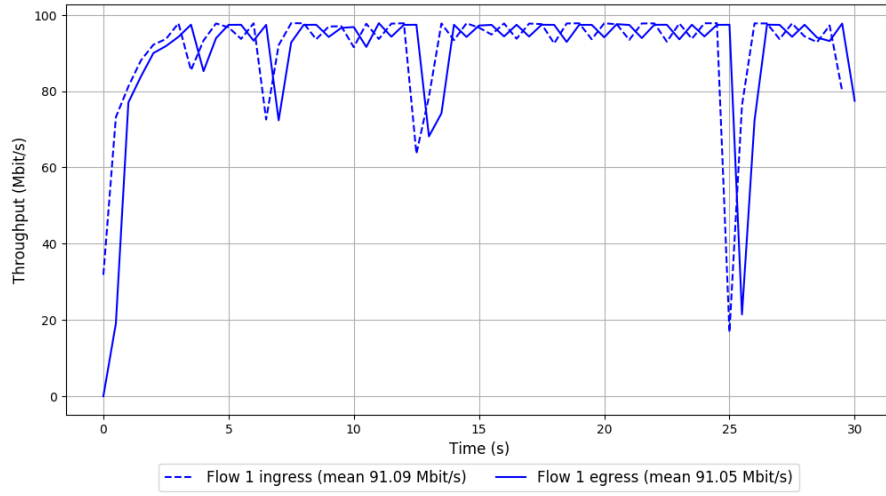
-- Flow 1:

Average throughput: 91.05 Mbit/s

95th percentile per-packet one-way delay: 24.580 ms

Loss rate: 0.13%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-09-18 16:28:58

End at: 2019-09-18 16:29:28

Local clock offset: -3.503 ms

Remote clock offset: -1.257 ms

Below is generated by plot.py at 2019-09-18 18:13:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.09 Mbit/s

95th percentile per-packet one-way delay: 26.177 ms

Loss rate: 0.21%

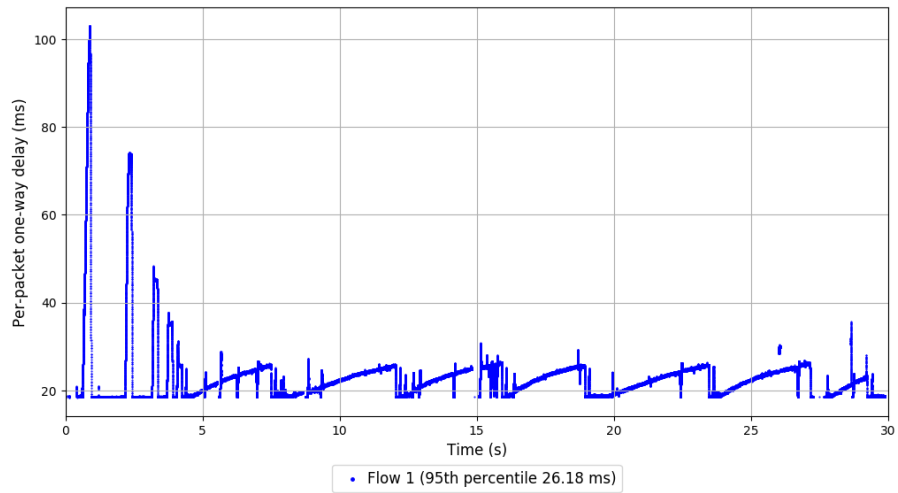
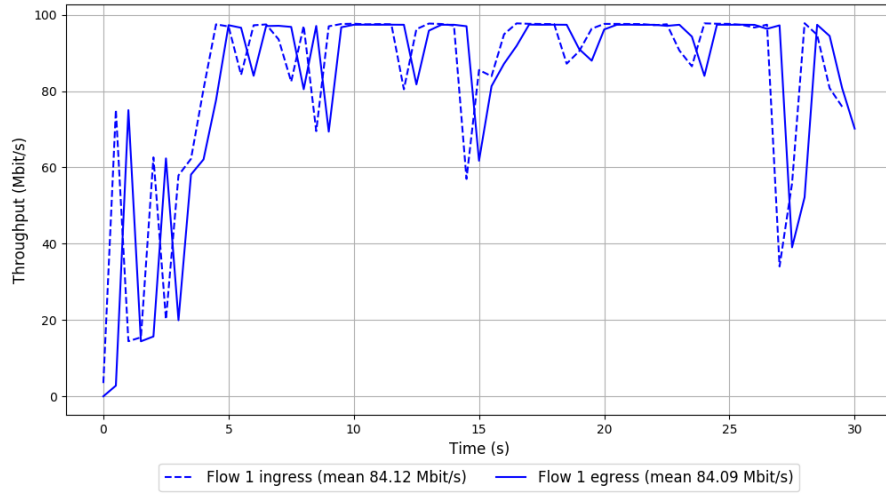
-- Flow 1:

Average throughput: 84.09 Mbit/s

95th percentile per-packet one-way delay: 26.177 ms

Loss rate: 0.21%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-09-18 16:57:48

End at: 2019-09-18 16:58:18

Local clock offset: 1.007 ms

Remote clock offset: 4.007 ms

Below is generated by plot.py at 2019-09-18 18:13:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.79 Mbit/s

95th percentile per-packet one-way delay: 23.929 ms

Loss rate: 0.21%

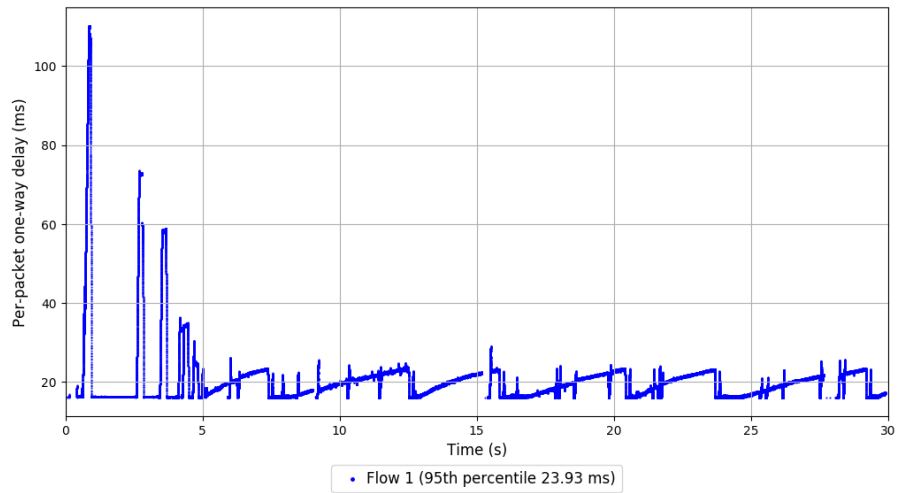
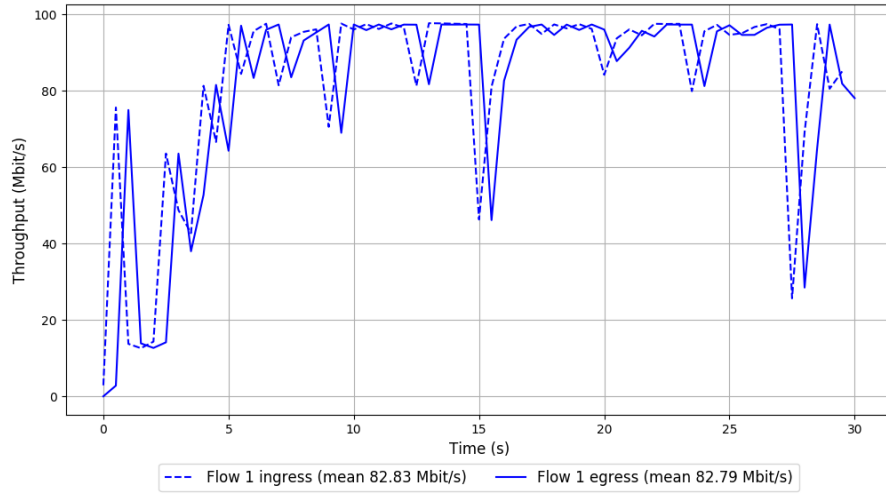
-- Flow 1:

Average throughput: 82.79 Mbit/s

95th percentile per-packet one-way delay: 23.929 ms

Loss rate: 0.21%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-09-18 17:26:56

End at: 2019-09-18 17:27:26

Local clock offset: -0.714 ms

Remote clock offset: 1.32 ms

Below is generated by plot.py at 2019-09-18 18:13:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.81 Mbit/s

95th percentile per-packet one-way delay: 24.307 ms

Loss rate: 0.23%

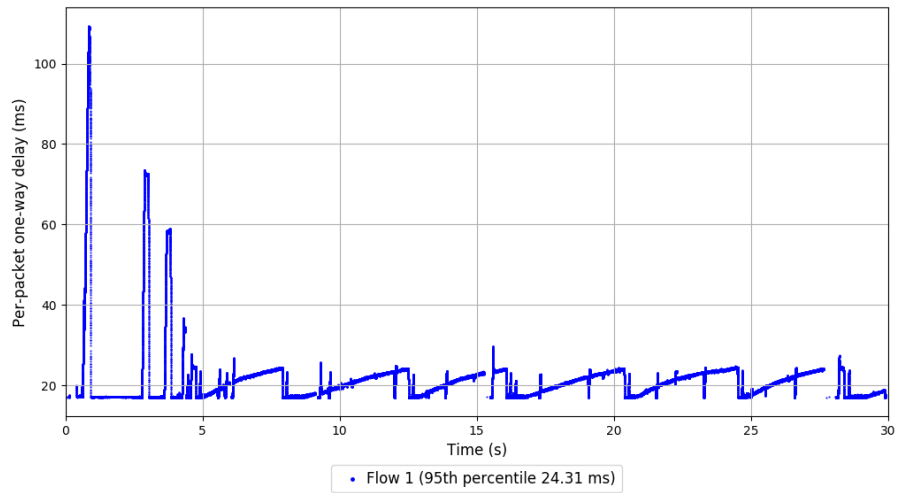
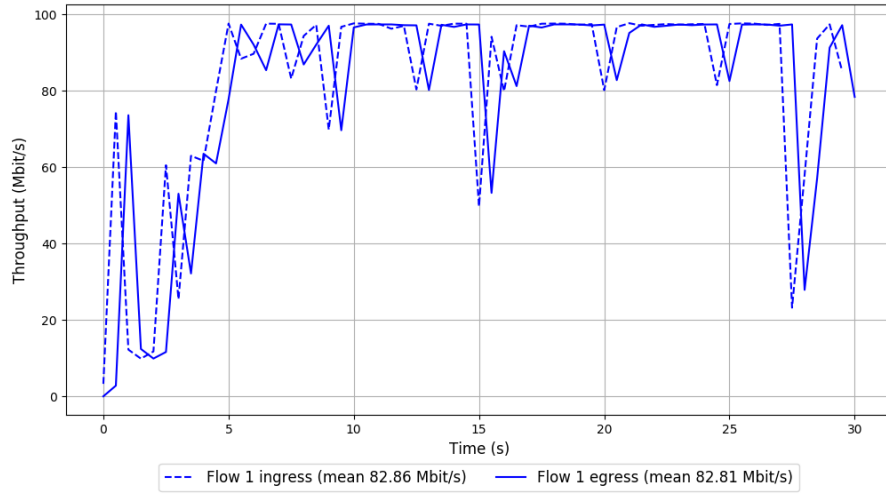
-- Flow 1:

Average throughput: 82.81 Mbit/s

95th percentile per-packet one-way delay: 24.307 ms

Loss rate: 0.23%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-09-18 17:55:58

End at: 2019-09-18 17:56:28

Local clock offset: -1.142 ms

Remote clock offset: -2.756 ms

Below is generated by plot.py at 2019-09-18 18:13:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.05 Mbit/s

95th percentile per-packet one-way delay: 24.833 ms

Loss rate: 0.22%

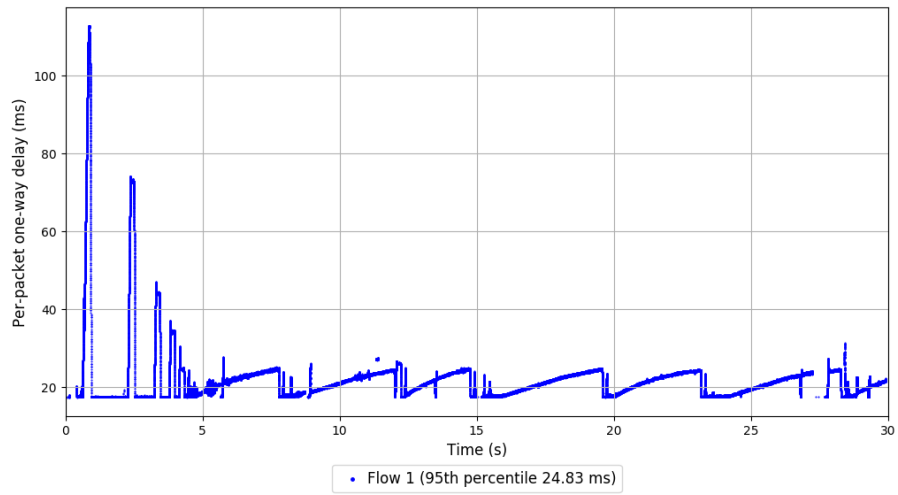
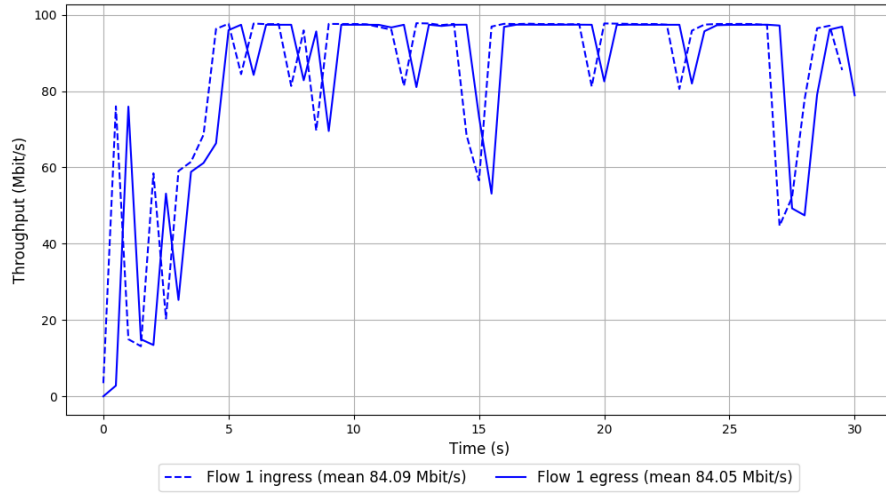
-- Flow 1:

Average throughput: 84.05 Mbit/s

95th percentile per-packet one-way delay: 24.833 ms

Loss rate: 0.22%

Run 5: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2019-09-18 15:43:37

End at: 2019-09-18 15:44:07

Local clock offset: 2.141 ms

Remote clock offset: 5.776 ms

Below is generated by plot.py at 2019-09-18 18:13:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 16.281 ms

Loss rate: 0.13%

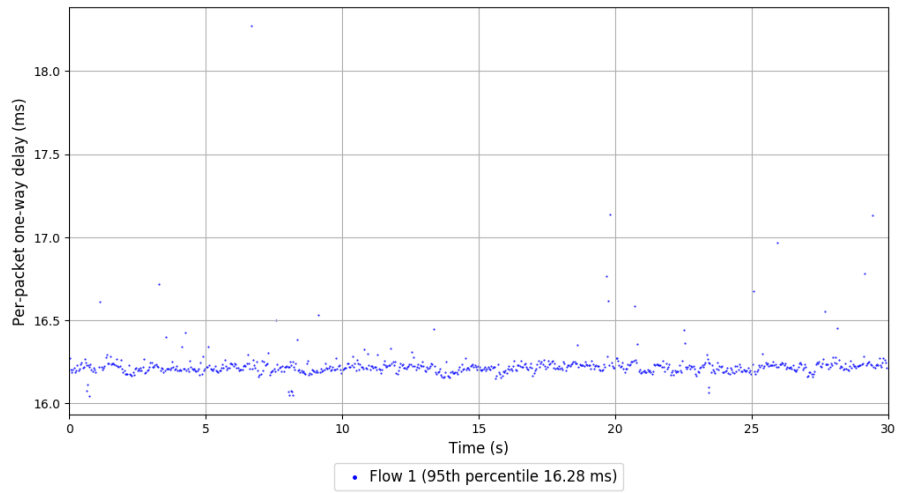
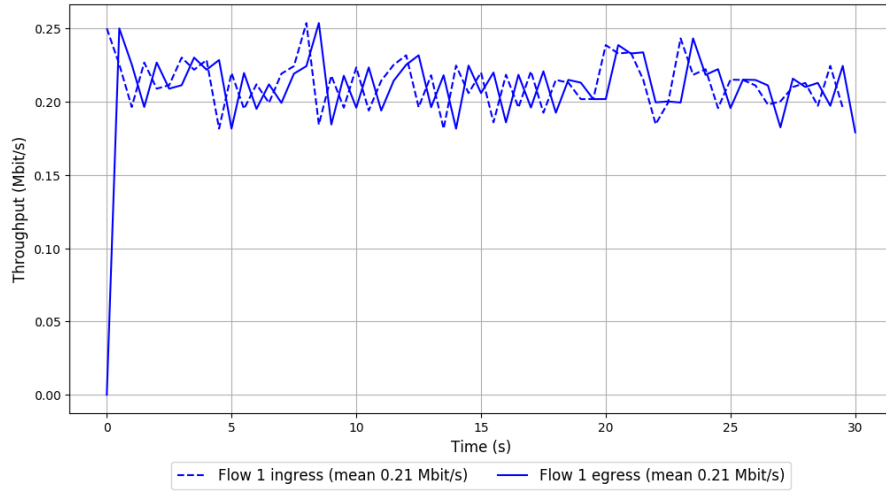
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 16.281 ms

Loss rate: 0.13%

Run 1: Report of SCReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-09-18 16:13:22

End at: 2019-09-18 16:13:52

Local clock offset: 1.527 ms

Remote clock offset: 5.187 ms

Below is generated by plot.py at 2019-09-18 18:13:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 17.153 ms

Loss rate: 0.13%

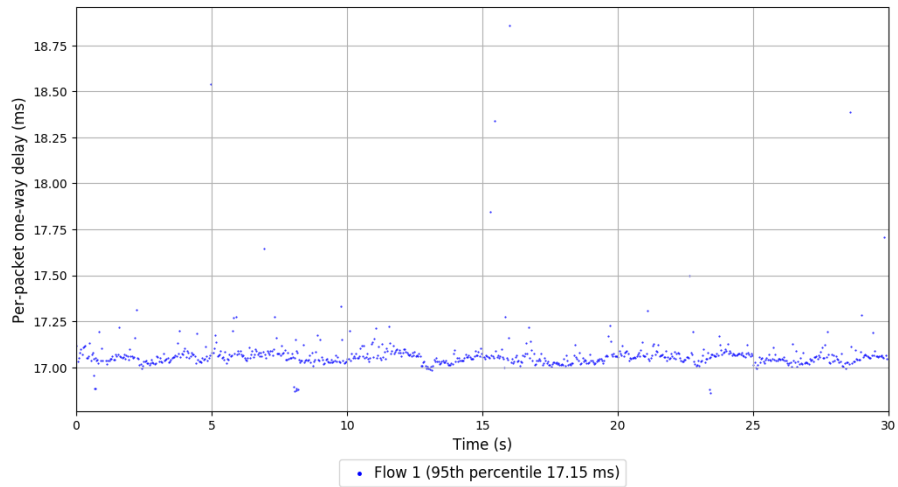
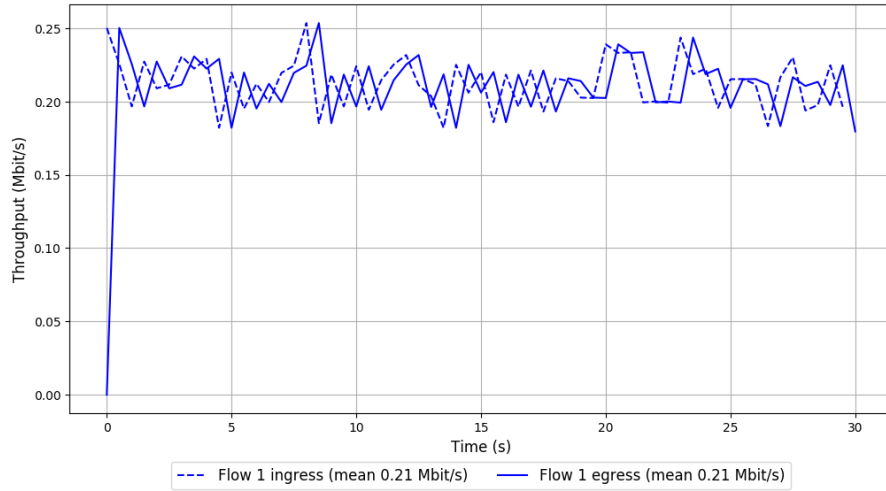
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 17.153 ms

Loss rate: 0.13%

Run 2: Report of SCReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-09-18 16:43:16

End at: 2019-09-18 16:43:46

Local clock offset: 5.366 ms

Remote clock offset: 6.351 ms

Below is generated by plot.py at 2019-09-18 18:13:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.780 ms

Loss rate: 0.13%

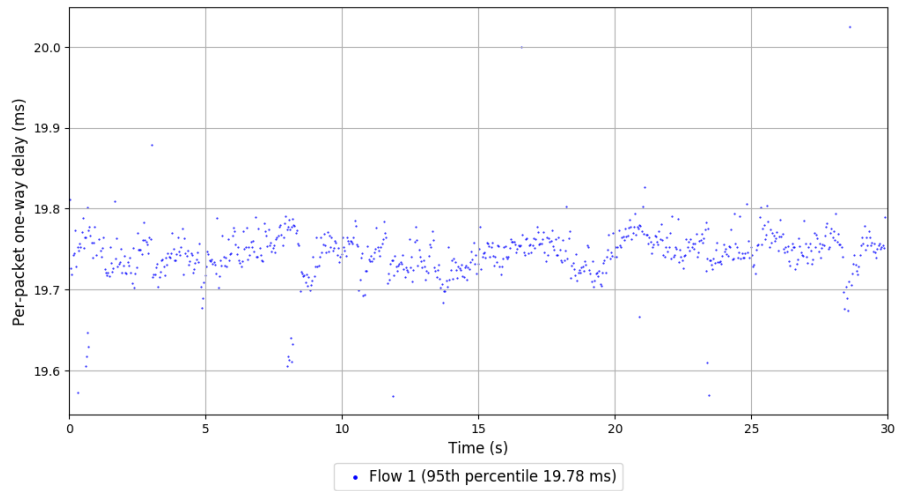
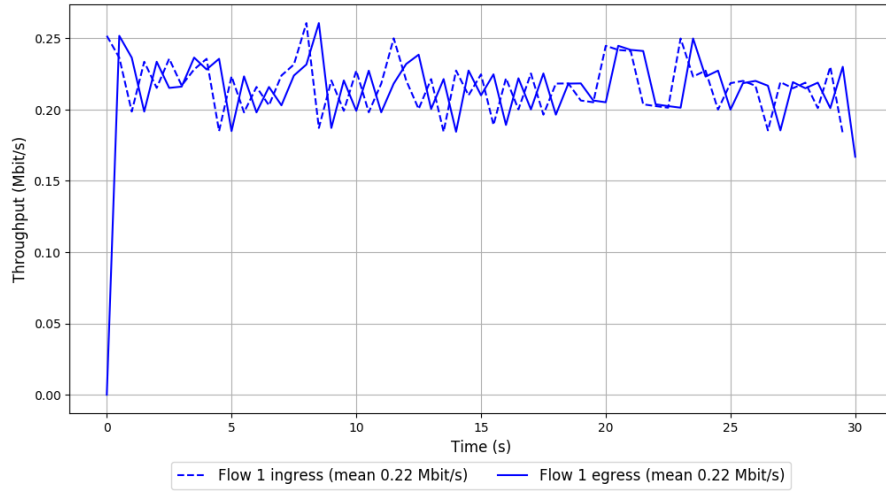
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.780 ms

Loss rate: 0.13%

Run 3: Report of SCReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-09-18 17:12:16

End at: 2019-09-18 17:12:46

Local clock offset: -0.341 ms

Remote clock offset: 4.127 ms

Below is generated by plot.py at 2019-09-18 18:13:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 15.214 ms

Loss rate: 0.26%

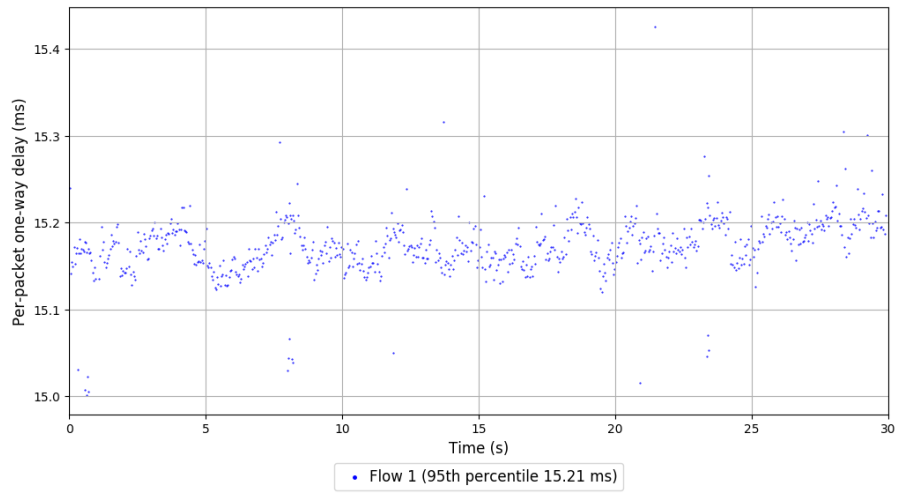
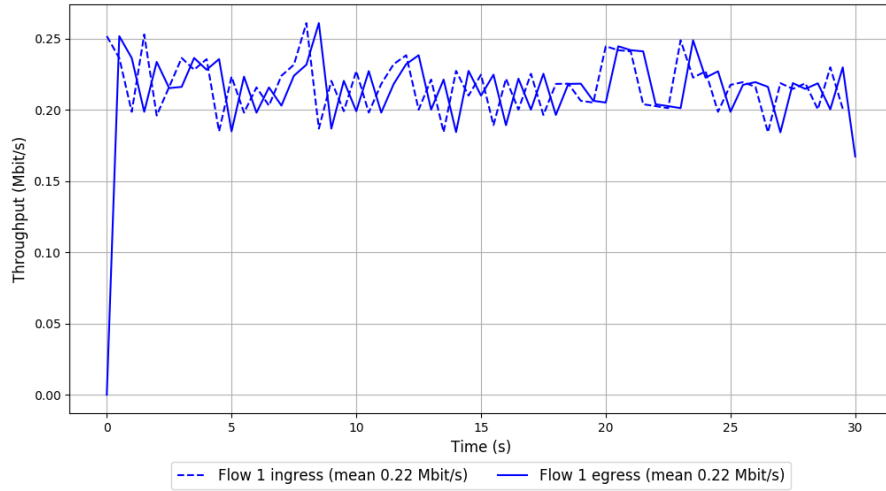
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 15.214 ms

Loss rate: 0.26%

Run 4: Report of SCReAM — Data Link

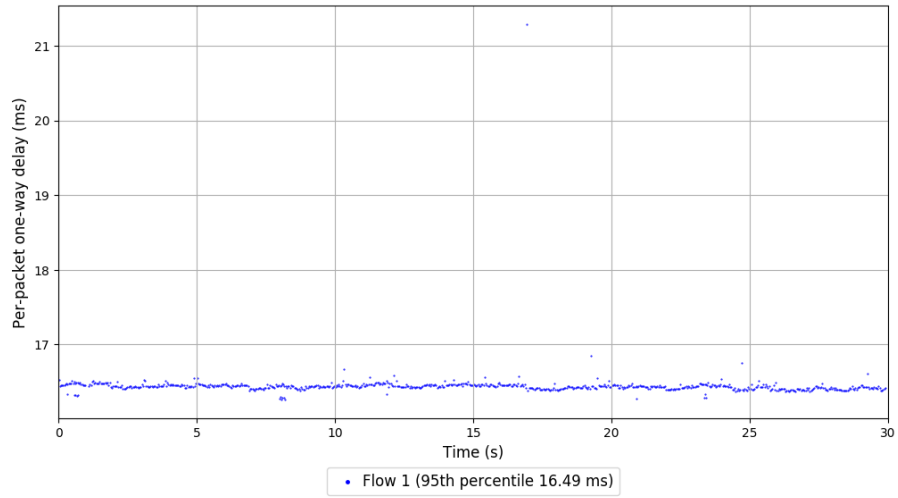
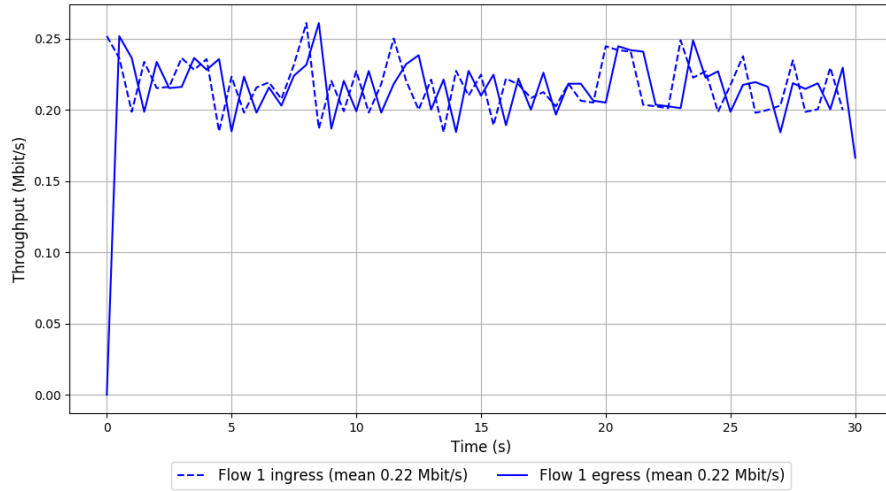


Run 5: Statistics of SCReAM

Start at: 2019-09-18 17:41:24
End at: 2019-09-18 17:41:55
Local clock offset: -0.715 ms
Remote clock offset: -0.046 ms

Below is generated by plot.py at 2019-09-18 18:13:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 16.489 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 16.489 ms
Loss rate: 0.26%

Run 5: Report of SCReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-09-18 15:39:39

End at: 2019-09-18 15:40:09

Local clock offset: 6.548 ms

Remote clock offset: 5.522 ms

Below is generated by plot.py at 2019-09-18 18:13:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.73 Mbit/s

95th percentile per-packet one-way delay: 28.963 ms

Loss rate: 0.13%

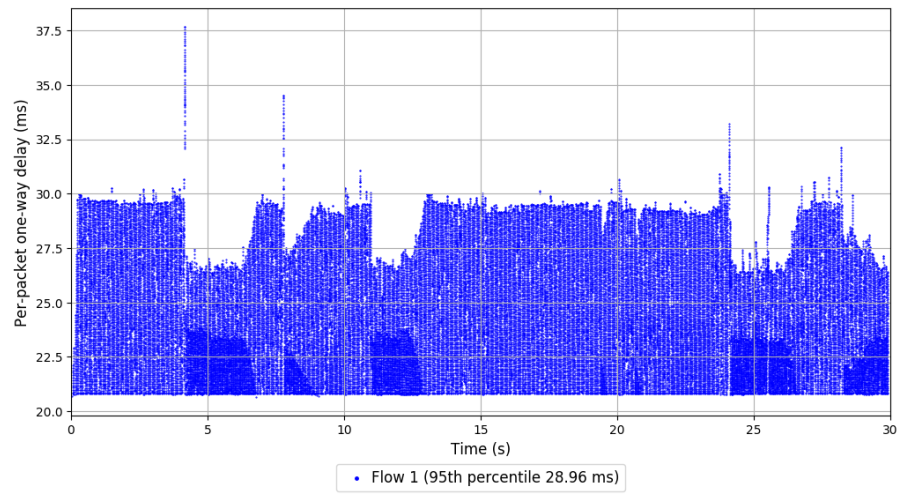
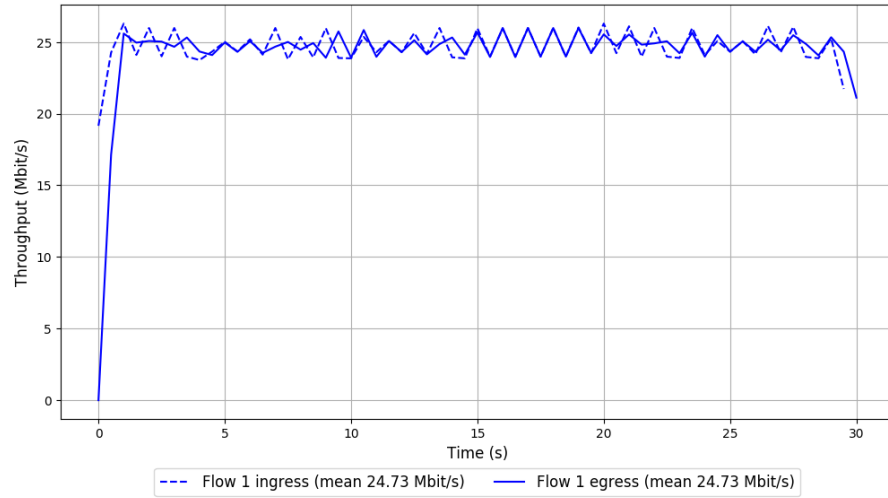
-- Flow 1:

Average throughput: 24.73 Mbit/s

95th percentile per-packet one-way delay: 28.963 ms

Loss rate: 0.13%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-09-18 16:09:50

End at: 2019-09-18 16:10:20

Local clock offset: 0.847 ms

Remote clock offset: 5.791 ms

Below is generated by plot.py at 2019-09-18 18:13:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.38 Mbit/s

95th percentile per-packet one-way delay: 20.352 ms

Loss rate: 0.03%

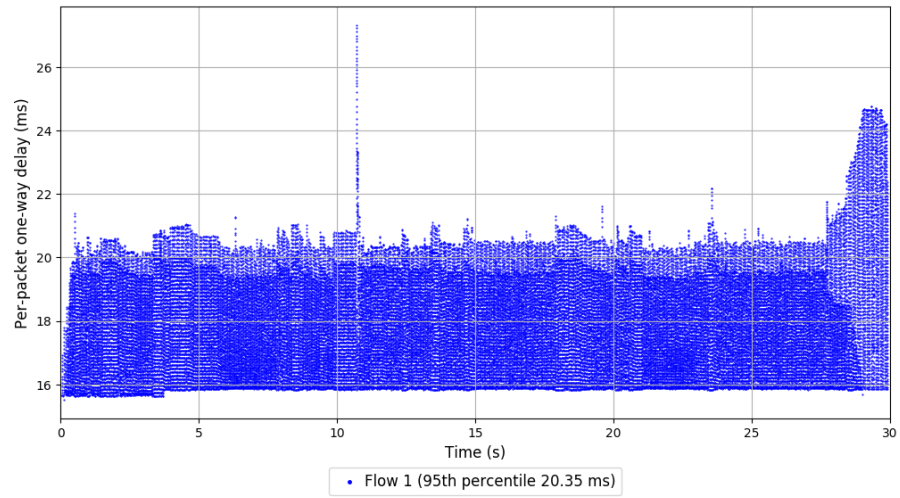
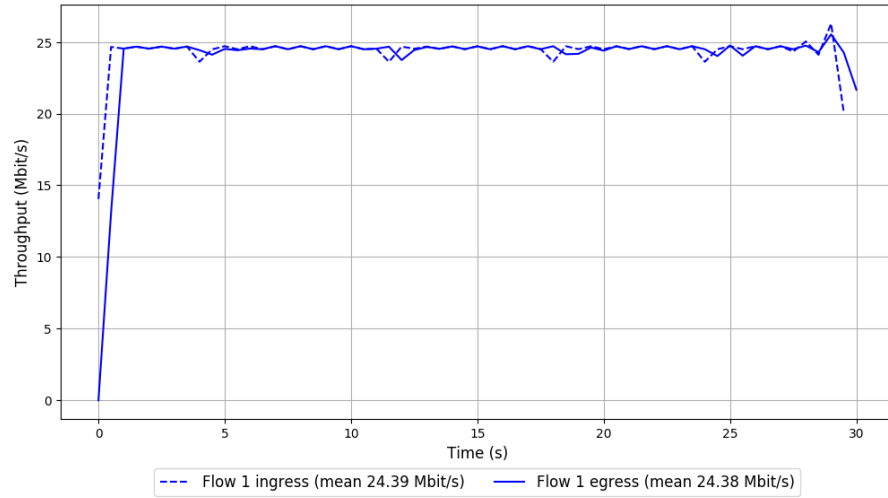
-- Flow 1:

Average throughput: 24.38 Mbit/s

95th percentile per-packet one-way delay: 20.352 ms

Loss rate: 0.03%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-09-18 16:39:49

End at: 2019-09-18 16:40:19

Local clock offset: 0.776 ms

Remote clock offset: 5.568 ms

Below is generated by plot.py at 2019-09-18 18:13:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.07 Mbit/s

95th percentile per-packet one-way delay: 20.998 ms

Loss rate: 0.22%

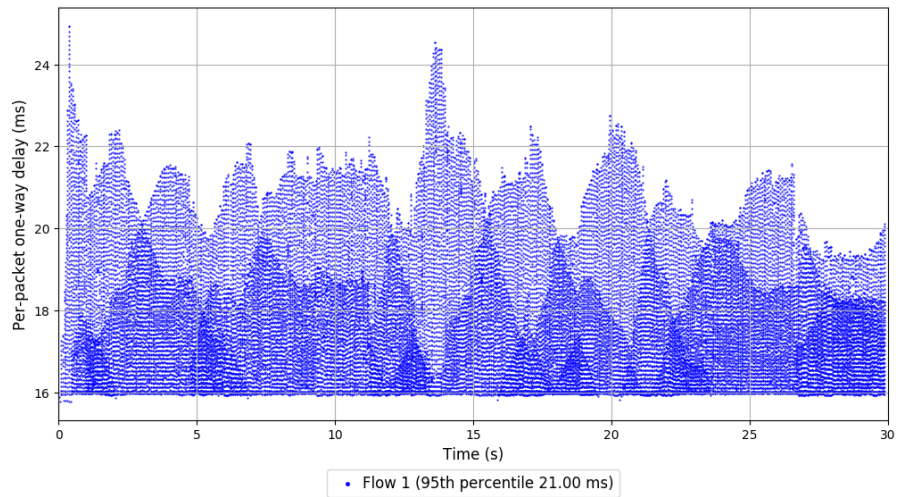
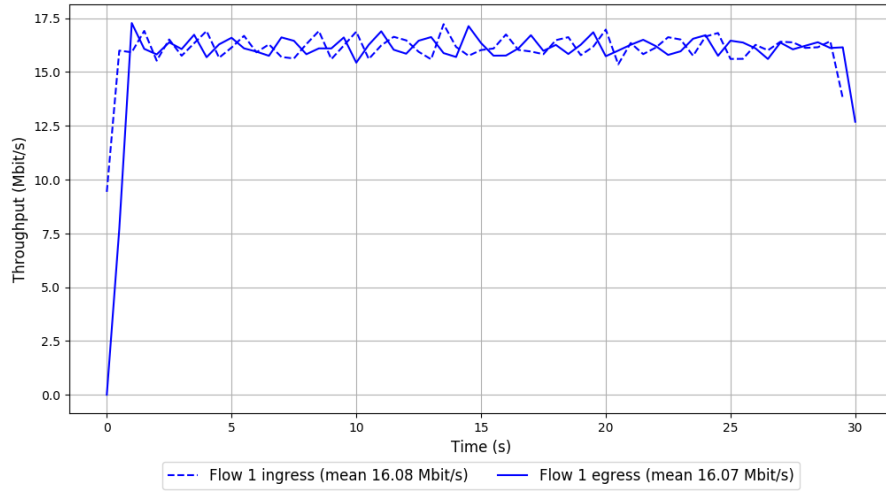
-- Flow 1:

Average throughput: 16.07 Mbit/s

95th percentile per-packet one-way delay: 20.998 ms

Loss rate: 0.22%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-09-18 17:08:43

End at: 2019-09-18 17:09:13

Local clock offset: 4.267 ms

Remote clock offset: 3.357 ms

Below is generated by plot.py at 2019-09-18 18:13:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.98 Mbit/s

95th percentile per-packet one-way delay: 25.389 ms

Loss rate: 0.18%

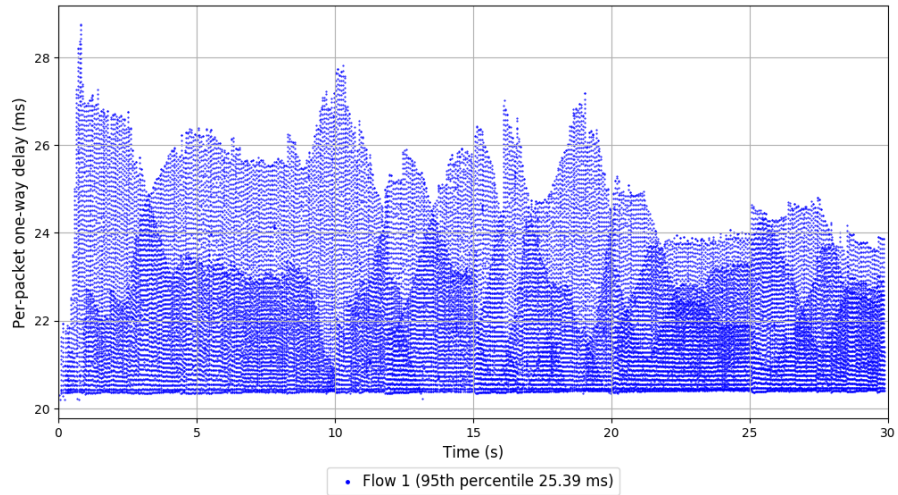
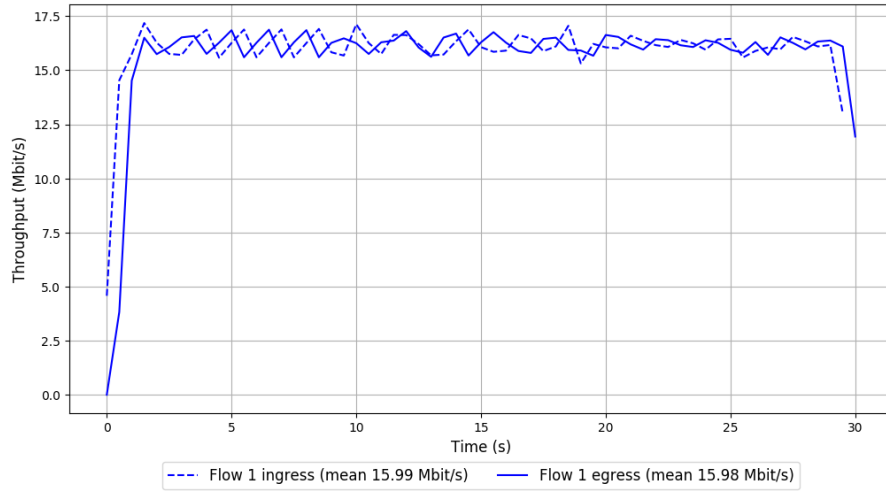
-- Flow 1:

Average throughput: 15.98 Mbit/s

95th percentile per-packet one-way delay: 25.389 ms

Loss rate: 0.18%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-09-18 17:37:53

End at: 2019-09-18 17:38:23

Local clock offset: -0.105 ms

Remote clock offset: 0.35 ms

Below is generated by plot.py at 2019-09-18 18:13:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.99 Mbit/s

95th percentile per-packet one-way delay: 21.043 ms

Loss rate: 0.15%

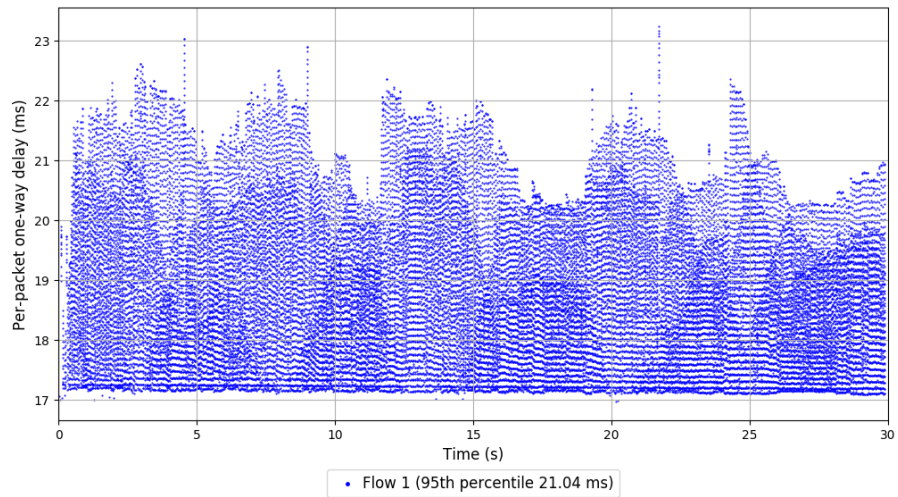
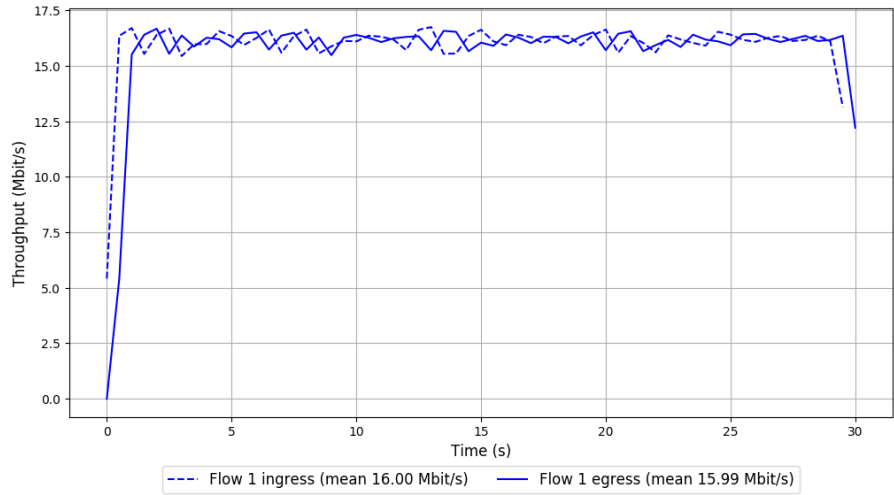
-- Flow 1:

Average throughput: 15.99 Mbit/s

95th percentile per-packet one-way delay: 21.043 ms

Loss rate: 0.15%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-09-18 15:45:47

End at: 2019-09-18 15:46:18

Local clock offset: 1.419 ms

Remote clock offset: 3.936 ms

Below is generated by plot.py at 2019-09-18 18:15:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.46 Mbit/s

95th percentile per-packet one-way delay: 21.125 ms

Loss rate: 0.10%

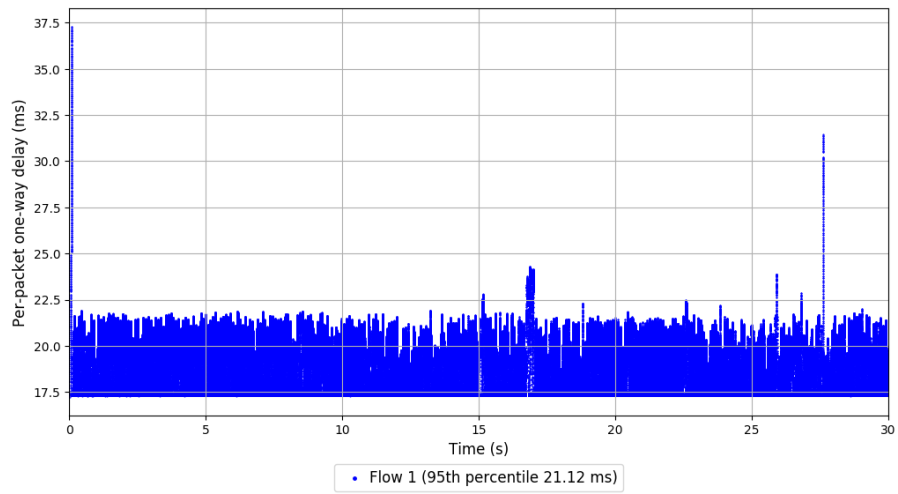
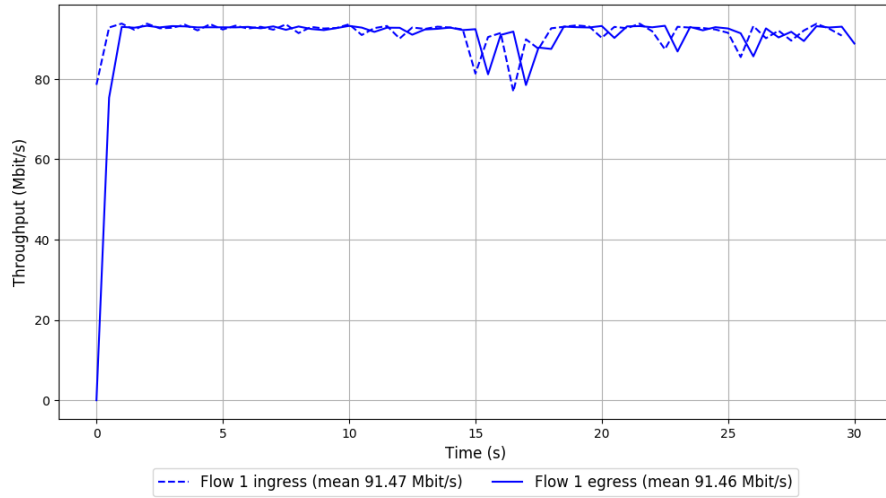
-- Flow 1:

Average throughput: 91.46 Mbit/s

95th percentile per-packet one-way delay: 21.125 ms

Loss rate: 0.10%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-09-18 16:15:32

End at: 2019-09-18 16:16:02

Local clock offset: 6.194 ms

Remote clock offset: 6.779 ms

Below is generated by plot.py at 2019-09-18 18:15:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.28 Mbit/s

95th percentile per-packet one-way delay: 23.542 ms

Loss rate: 0.08%

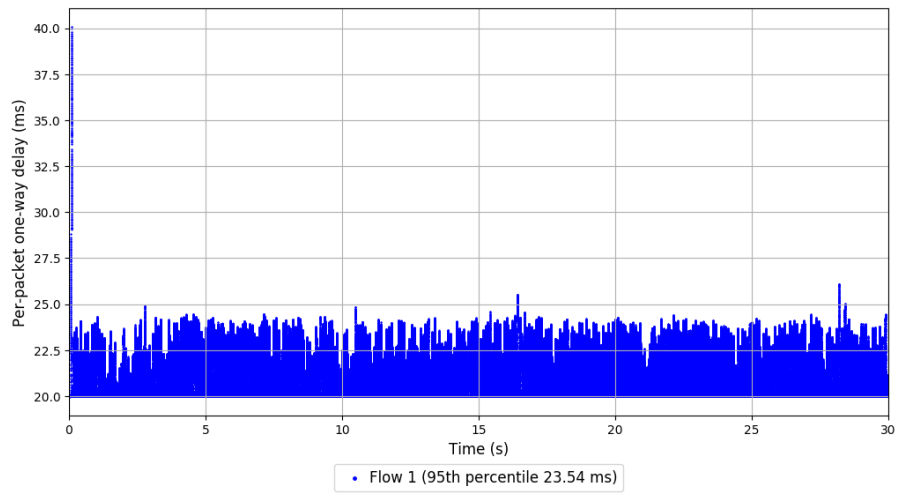
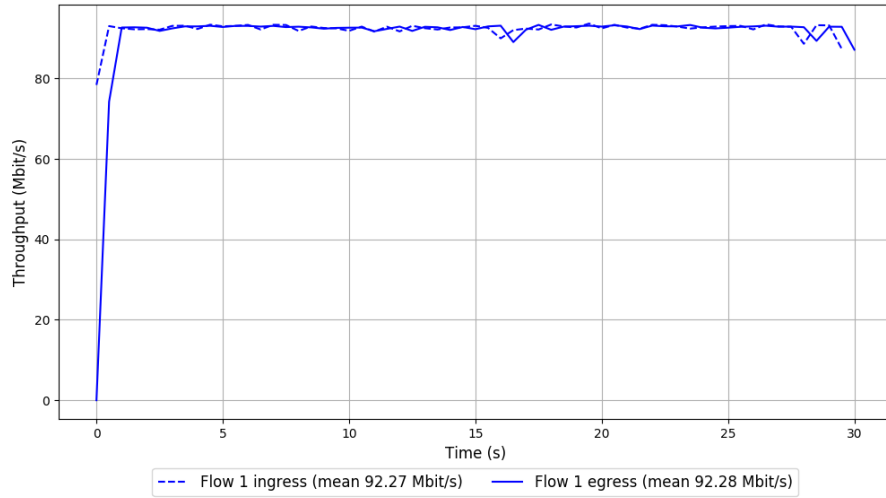
-- Flow 1:

Average throughput: 92.28 Mbit/s

95th percentile per-packet one-way delay: 23.542 ms

Loss rate: 0.08%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-09-18 16:45:28

End at: 2019-09-18 16:45:58

Local clock offset: 5.493 ms

Remote clock offset: 6.054 ms

Below is generated by plot.py at 2019-09-18 18:15:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.00 Mbit/s

95th percentile per-packet one-way delay: 28.916 ms

Loss rate: 0.19%

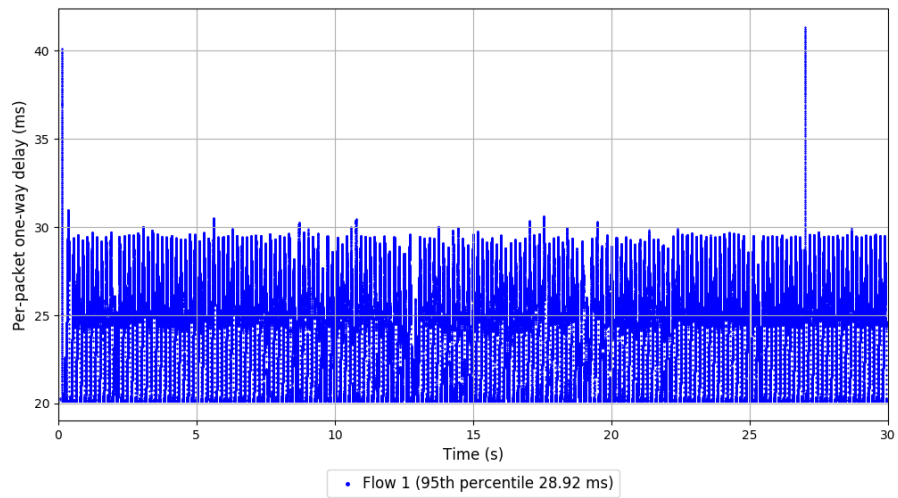
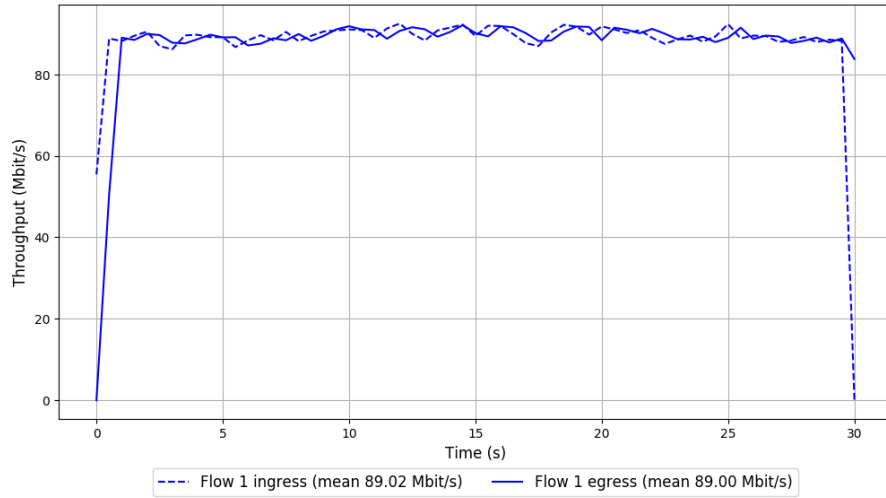
-- Flow 1:

Average throughput: 89.00 Mbit/s

95th percentile per-packet one-way delay: 28.916 ms

Loss rate: 0.19%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-09-18 17:14:27

End at: 2019-09-18 17:14:57

Local clock offset: 3.471 ms

Remote clock offset: 2.303 ms

Below is generated by plot.py at 2019-09-18 18:15:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.64 Mbit/s

95th percentile per-packet one-way delay: 29.747 ms

Loss rate: 0.21%

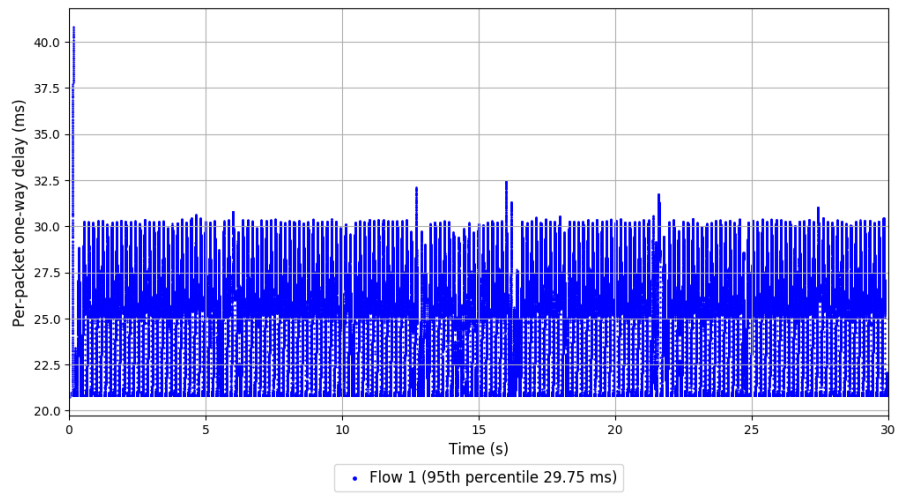
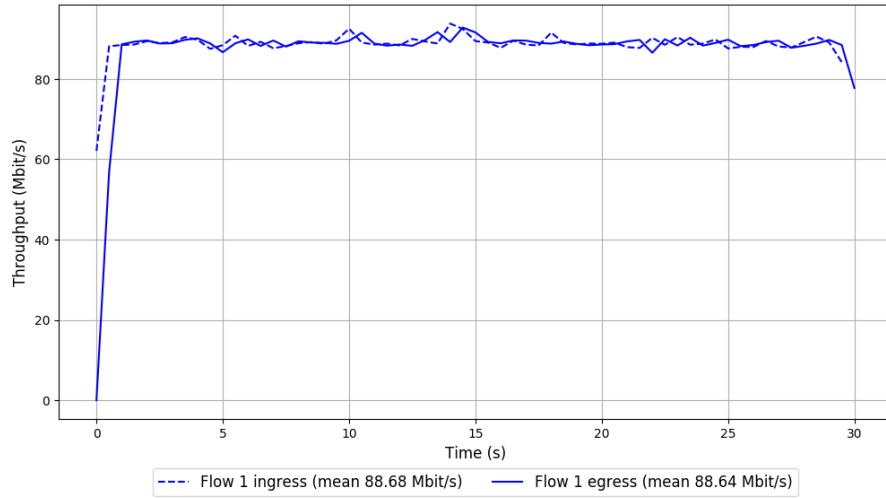
-- Flow 1:

Average throughput: 88.64 Mbit/s

95th percentile per-packet one-way delay: 29.747 ms

Loss rate: 0.21%

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

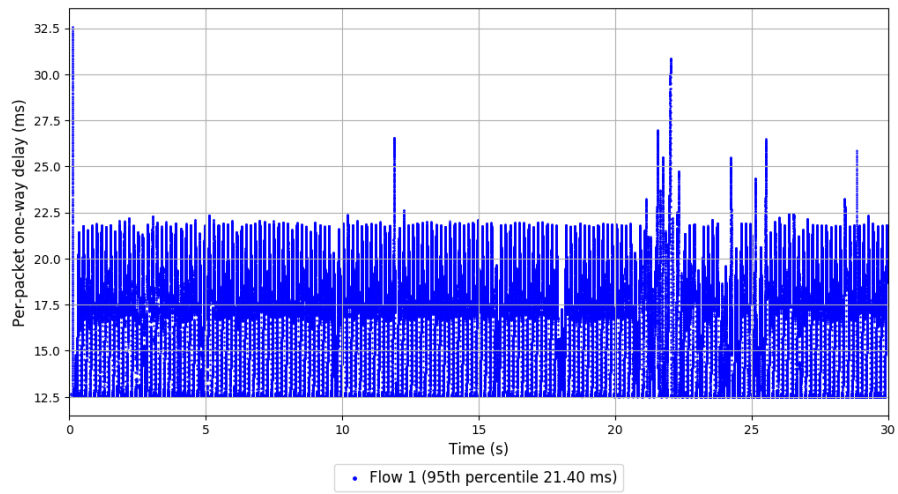
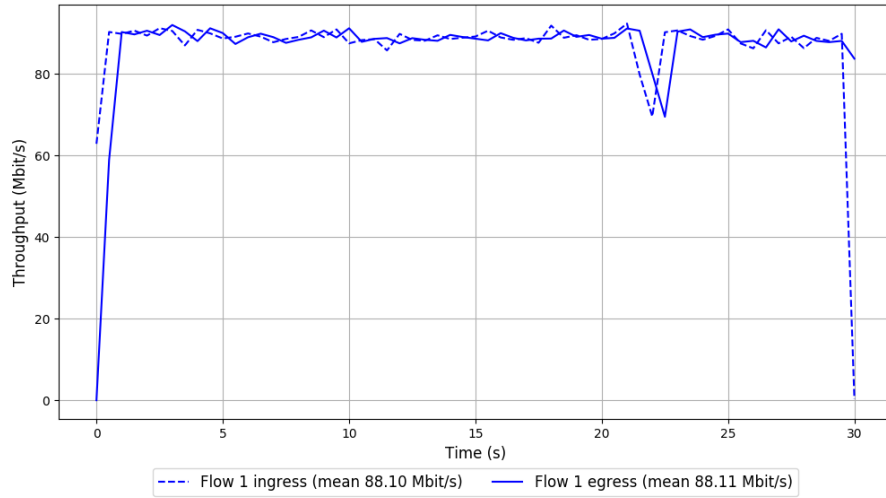


Run 5: Statistics of TaoVA-100x

Start at: 2019-09-18 17:43:35
End at: 2019-09-18 17:44:05
Local clock offset: -8.129 ms
Remote clock offset: -4.027 ms

Below is generated by plot.py at 2019-09-18 18:15:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.11 Mbit/s
95th percentile per-packet one-way delay: 21.397 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 88.11 Mbit/s
95th percentile per-packet one-way delay: 21.397 ms
Loss rate: 0.16%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-09-18 15:36:44

End at: 2019-09-18 15:37:14

Local clock offset: 1.621 ms

Remote clock offset: 5.071 ms

Below is generated by plot.py at 2019-09-18 18:15:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.80 Mbit/s

95th percentile per-packet one-way delay: 18.769 ms

Loss rate: 0.09%

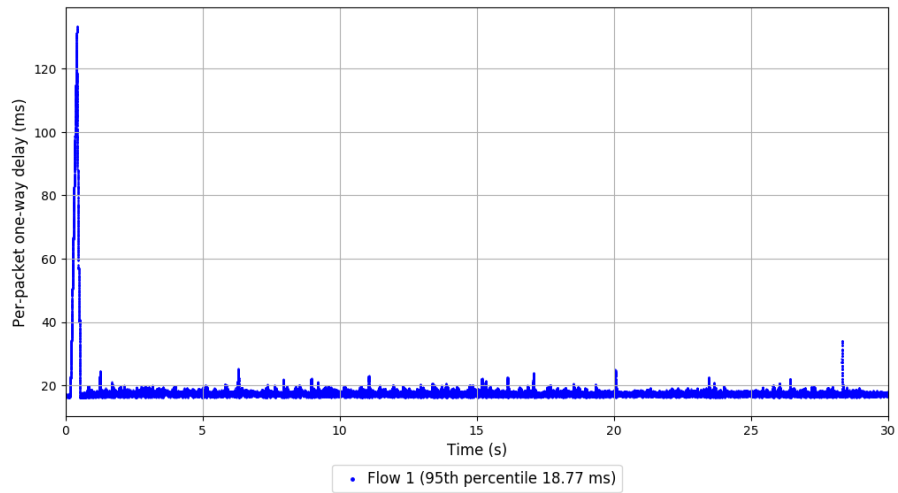
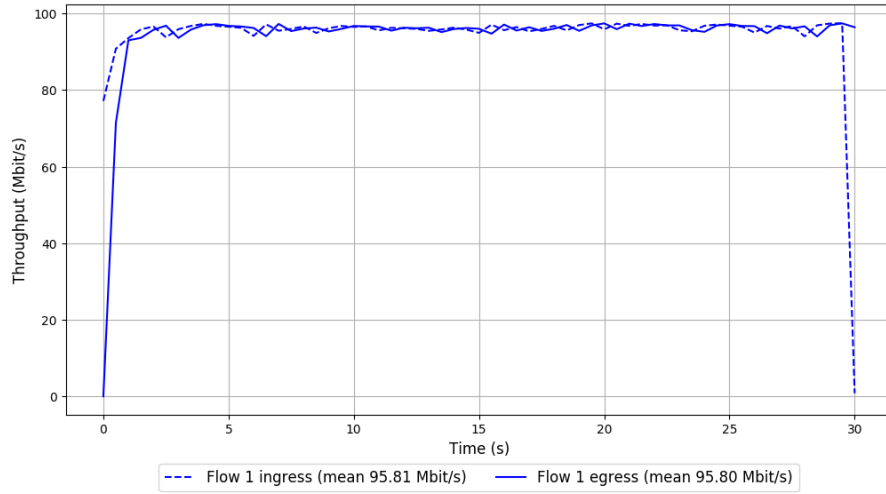
-- Flow 1:

Average throughput: 95.80 Mbit/s

95th percentile per-packet one-way delay: 18.769 ms

Loss rate: 0.09%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-09-18 16:07:14

End at: 2019-09-18 16:07:44

Local clock offset: 5.383 ms

Remote clock offset: 6.148 ms

Below is generated by plot.py at 2019-09-18 18:15:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.06 Mbit/s

95th percentile per-packet one-way delay: 22.297 ms

Loss rate: 0.09%

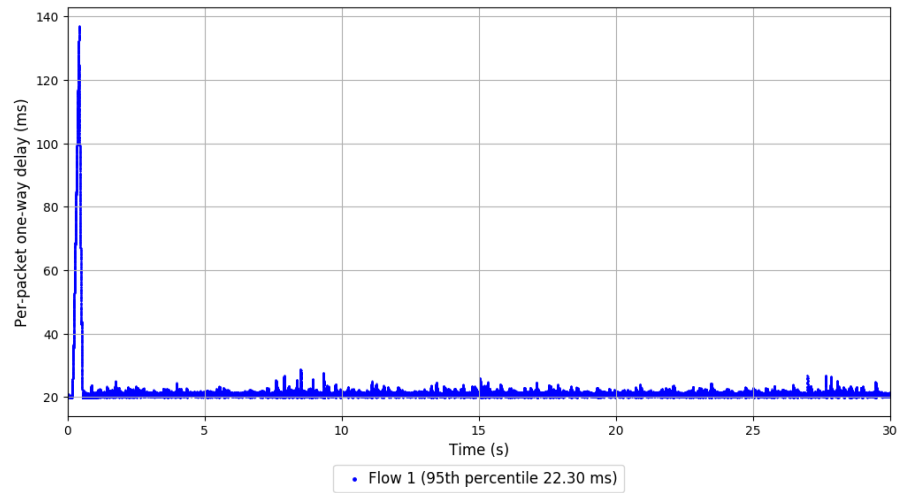
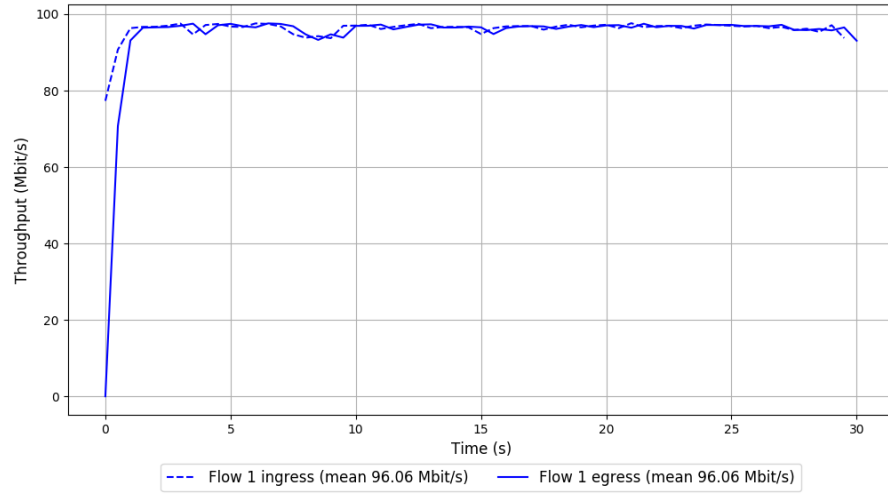
-- Flow 1:

Average throughput: 96.06 Mbit/s

95th percentile per-packet one-way delay: 22.297 ms

Loss rate: 0.09%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-09-18 16:37:26

End at: 2019-09-18 16:37:57

Local clock offset: 0.996 ms

Remote clock offset: 4.411 ms

Below is generated by plot.py at 2019-09-18 18:15:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.73 Mbit/s

95th percentile per-packet one-way delay: 18.625 ms

Loss rate: 0.19%

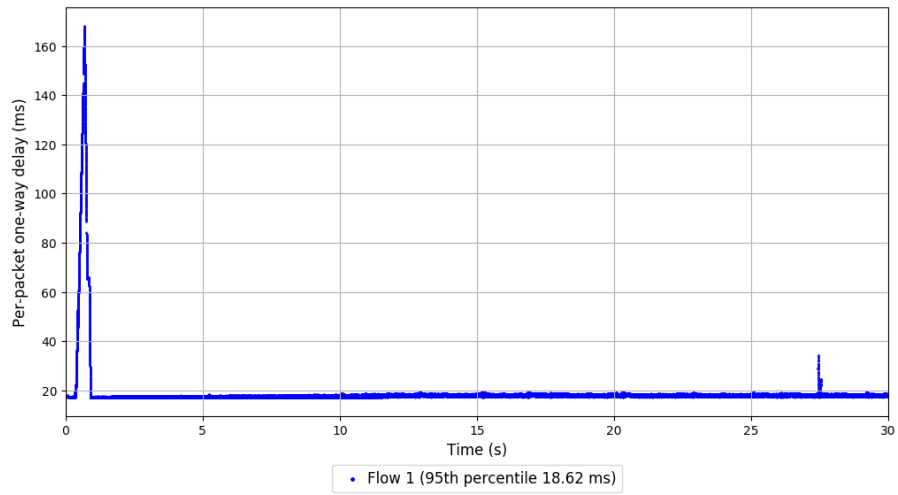
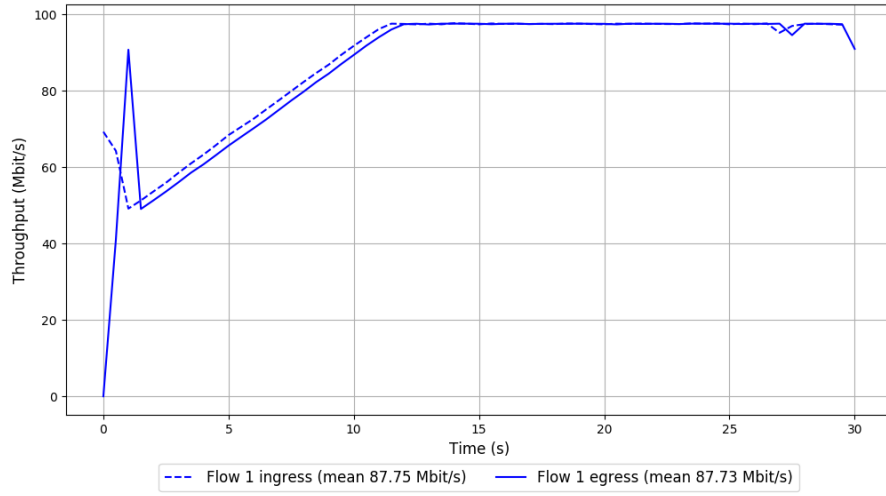
-- Flow 1:

Average throughput: 87.73 Mbit/s

95th percentile per-packet one-way delay: 18.625 ms

Loss rate: 0.19%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-09-18 17:06:12

End at: 2019-09-18 17:06:42

Local clock offset: 3.812 ms

Remote clock offset: 4.076 ms

Below is generated by plot.py at 2019-09-18 18:16:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.62 Mbit/s

95th percentile per-packet one-way delay: 20.180 ms

Loss rate: 0.18%

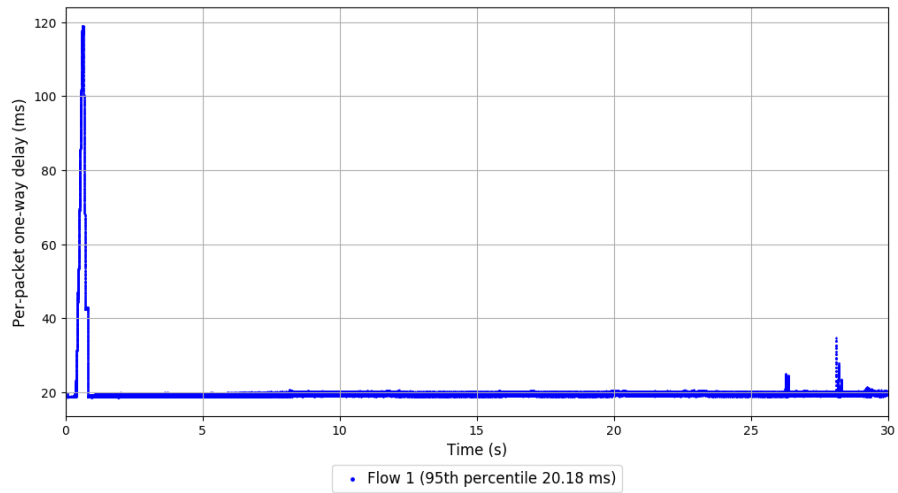
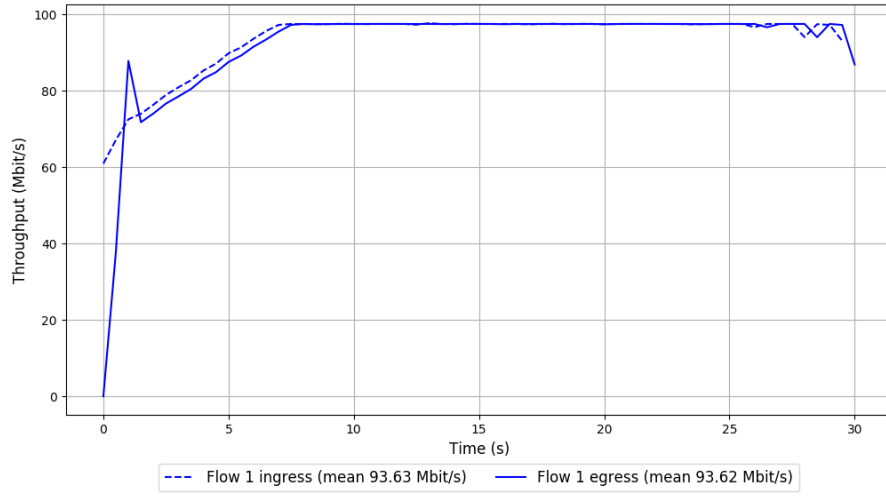
-- Flow 1:

Average throughput: 93.62 Mbit/s

95th percentile per-packet one-way delay: 20.180 ms

Loss rate: 0.18%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-09-18 17:35:21

End at: 2019-09-18 17:35:51

Local clock offset: 4.153 ms

Remote clock offset: 1.052 ms

Below is generated by plot.py at 2019-09-18 18:16:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.69 Mbit/s

95th percentile per-packet one-way delay: 21.755 ms

Loss rate: 0.18%

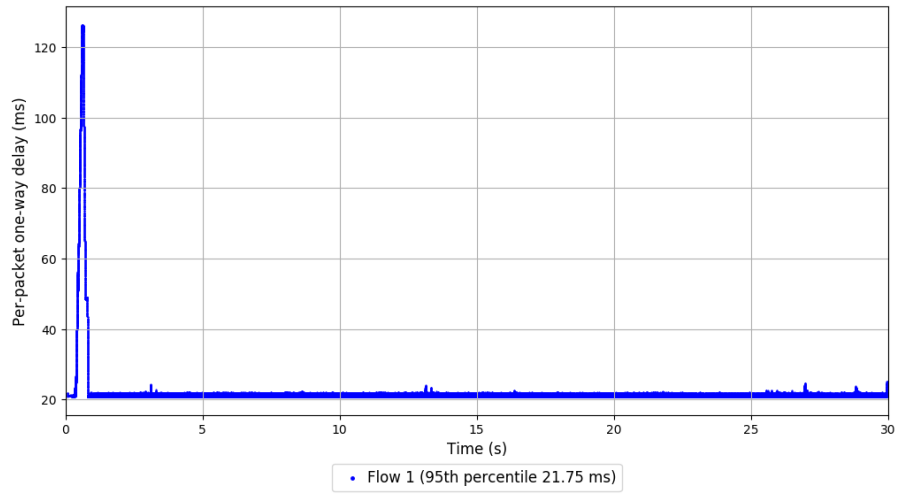
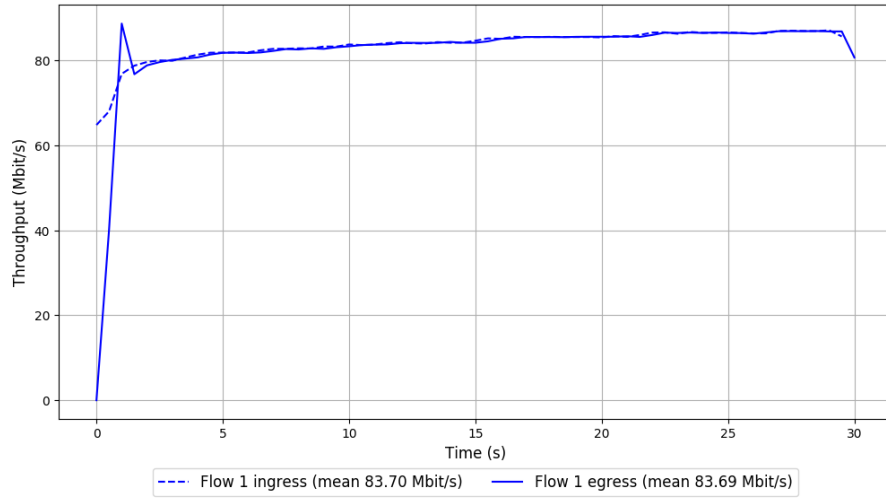
-- Flow 1:

Average throughput: 83.69 Mbit/s

95th percentile per-packet one-way delay: 21.755 ms

Loss rate: 0.18%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-09-18 15:40:49

End at: 2019-09-18 15:41:19

Local clock offset: 5.212 ms

Remote clock offset: 6.018 ms

Below is generated by plot.py at 2019-09-18 18:16:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.17 Mbit/s

95th percentile per-packet one-way delay: 55.600 ms

Loss rate: 0.33%

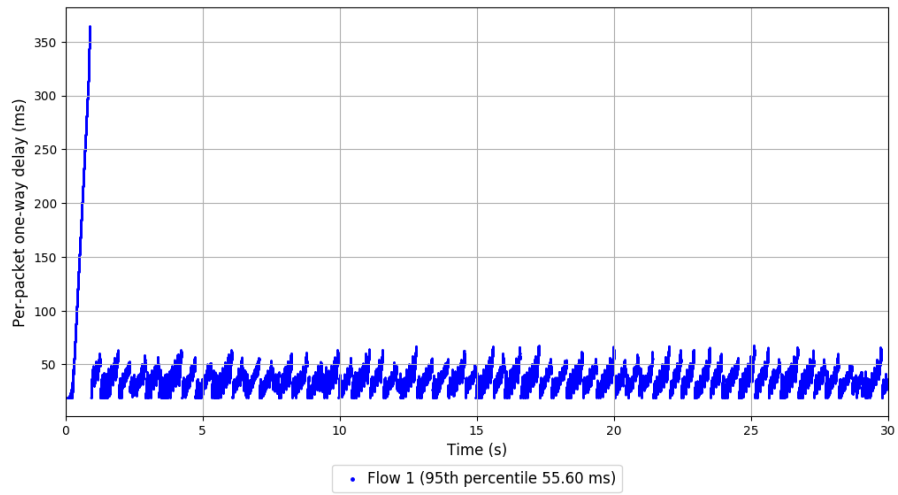
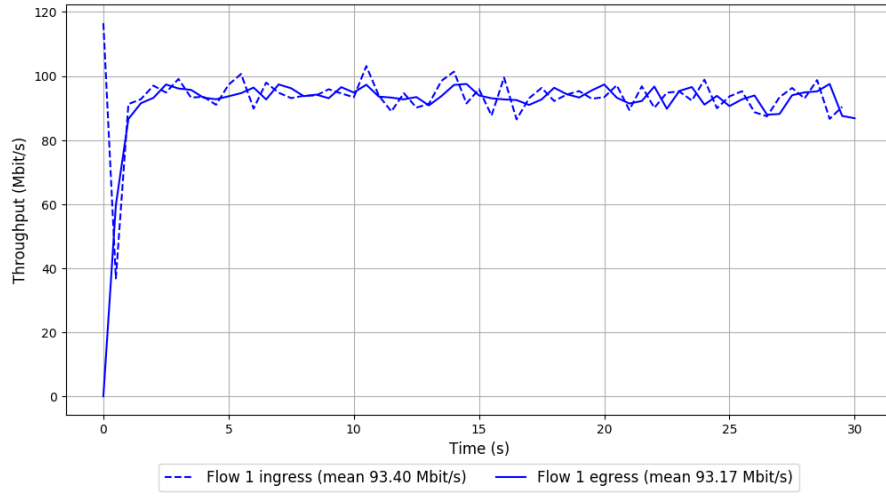
-- Flow 1:

Average throughput: 93.17 Mbit/s

95th percentile per-packet one-way delay: 55.600 ms

Loss rate: 0.33%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-09-18 16:10:57

End at: 2019-09-18 16:11:27

Local clock offset: 6.071 ms

Remote clock offset: 5.437 ms

Below is generated by plot.py at 2019-09-18 18:16:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.65 Mbit/s

95th percentile per-packet one-way delay: 57.258 ms

Loss rate: 0.30%

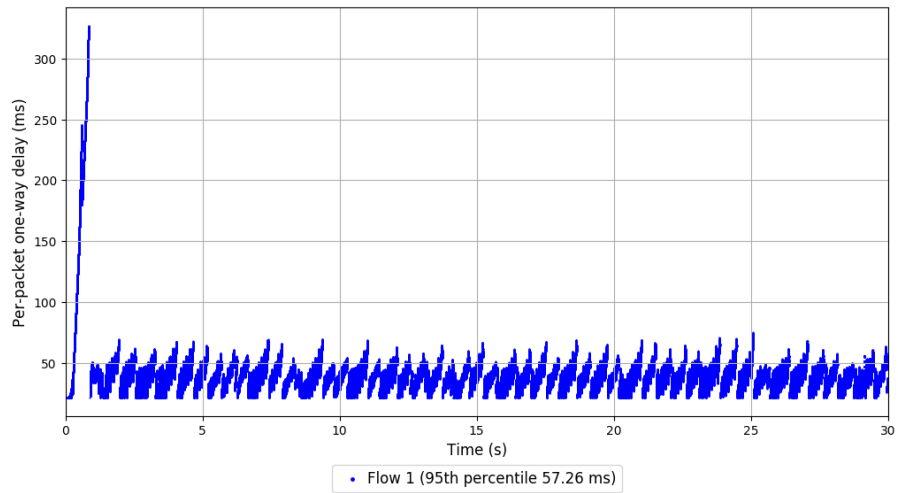
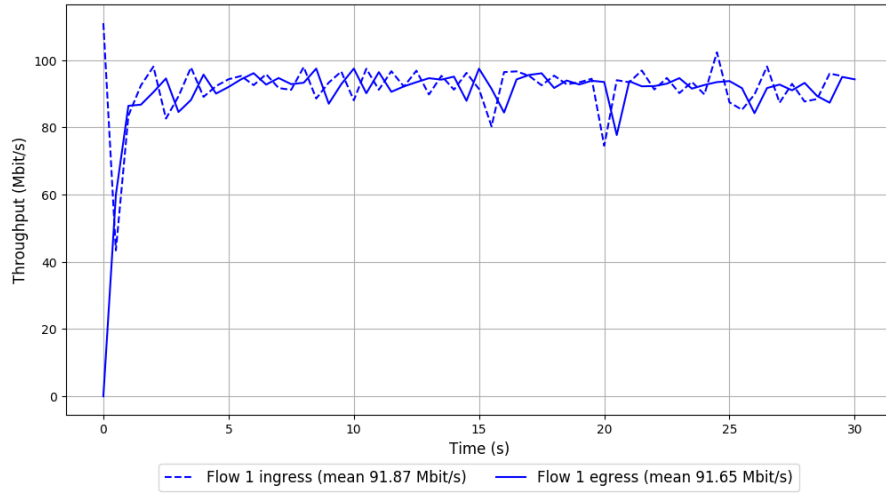
-- Flow 1:

Average throughput: 91.65 Mbit/s

95th percentile per-packet one-way delay: 57.258 ms

Loss rate: 0.30%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-09-18 16:40:55

End at: 2019-09-18 16:41:25

Local clock offset: 2.107 ms

Remote clock offset: 6.497 ms

Below is generated by plot.py at 2019-09-18 18:16:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.94 Mbit/s

95th percentile per-packet one-way delay: 49.999 ms

Loss rate: 0.16%

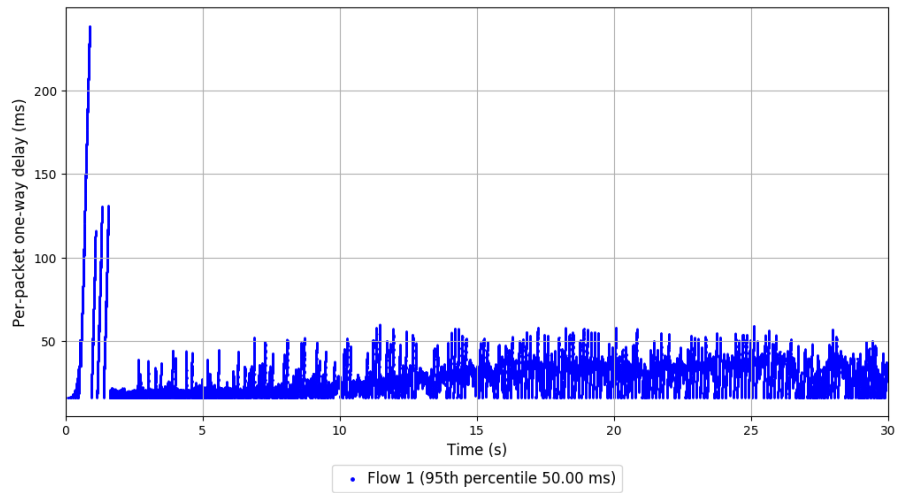
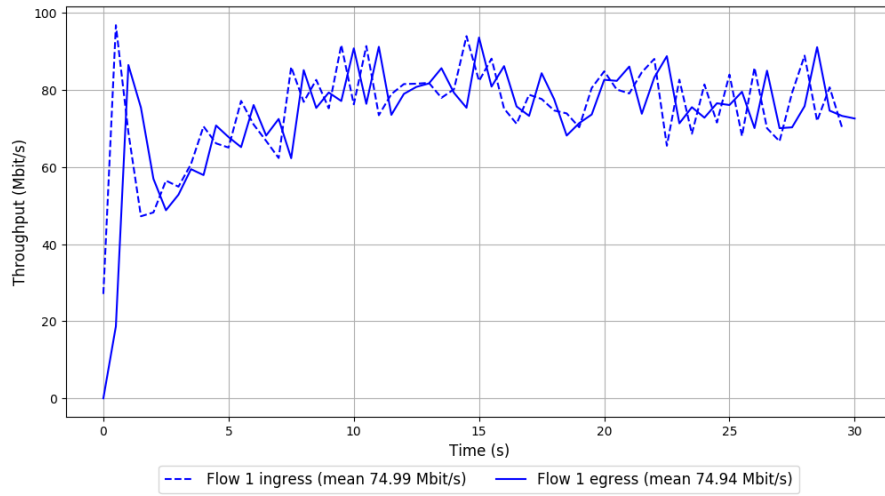
-- Flow 1:

Average throughput: 74.94 Mbit/s

95th percentile per-packet one-way delay: 49.999 ms

Loss rate: 0.16%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-09-18 17:09:49

End at: 2019-09-18 17:10:19

Local clock offset: 0.307 ms

Remote clock offset: 1.582 ms

Below is generated by plot.py at 2019-09-18 18:16:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.53 Mbit/s

95th percentile per-packet one-way delay: 51.838 ms

Loss rate: 0.35%

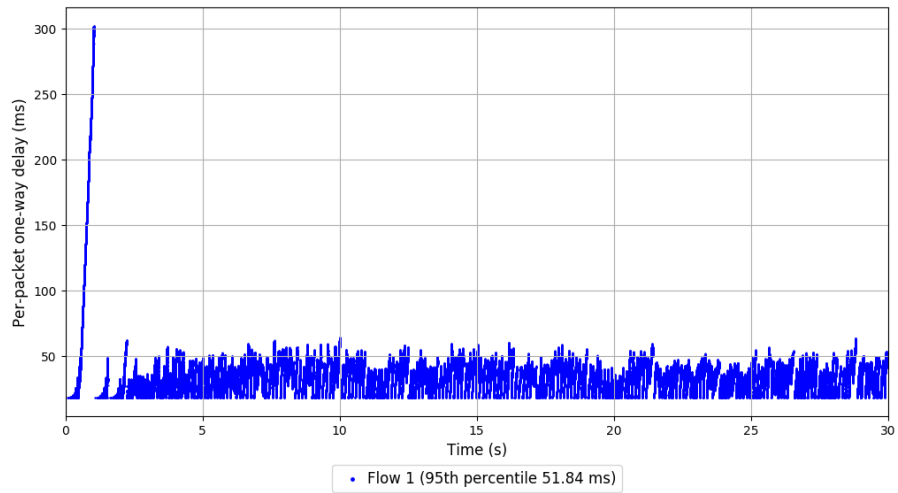
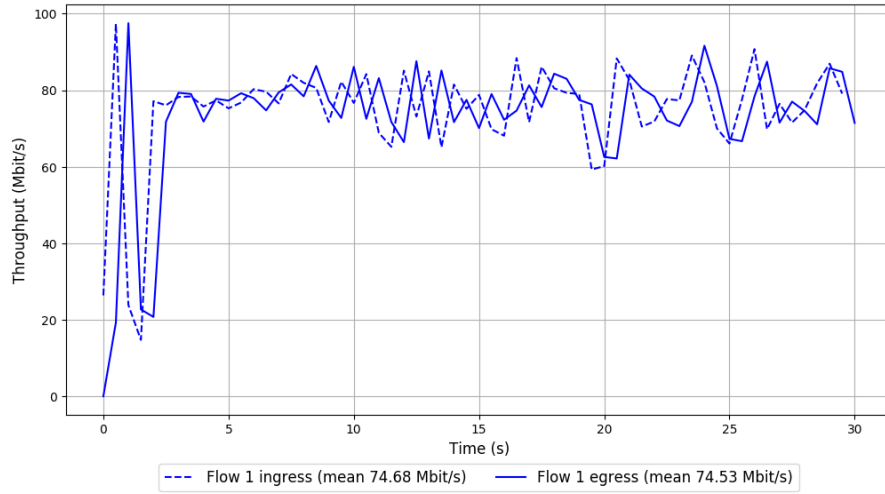
-- Flow 1:

Average throughput: 74.53 Mbit/s

95th percentile per-packet one-way delay: 51.838 ms

Loss rate: 0.35%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-09-18 17:39:00

End at: 2019-09-18 17:39:30

Local clock offset: -0.66 ms

Remote clock offset: 0.317 ms

Below is generated by plot.py at 2019-09-18 18:16:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.27 Mbit/s

95th percentile per-packet one-way delay: 48.321 ms

Loss rate: 0.33%

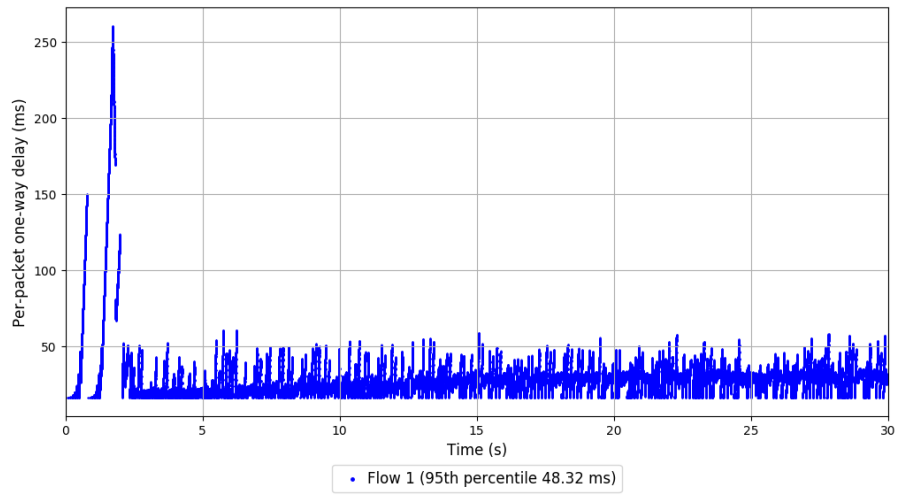
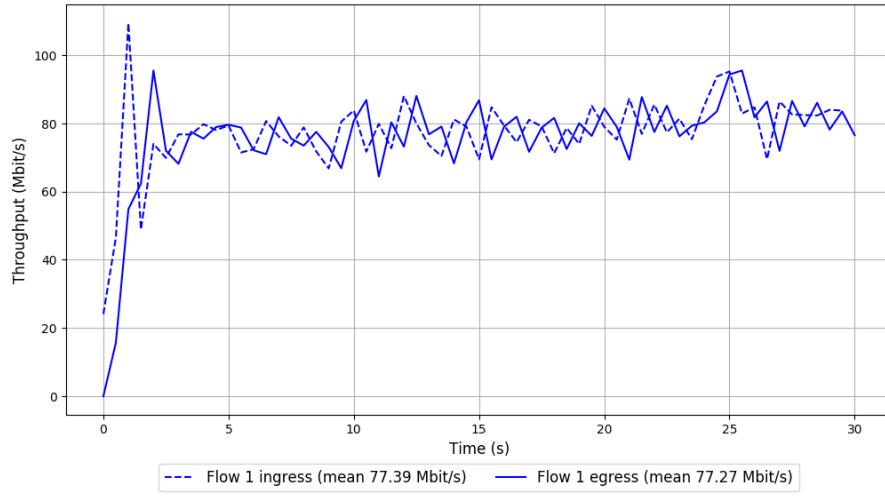
-- Flow 1:

Average throughput: 77.27 Mbit/s

95th percentile per-packet one-way delay: 48.321 ms

Loss rate: 0.33%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-09-18 15:35:25

End at: 2019-09-18 15:35:55

Local clock offset: 6.112 ms

Remote clock offset: 5.647 ms

Below is generated by plot.py at 2019-09-18 18:16:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.20 Mbit/s

95th percentile per-packet one-way delay: 21.614 ms

Loss rate: 0.09%

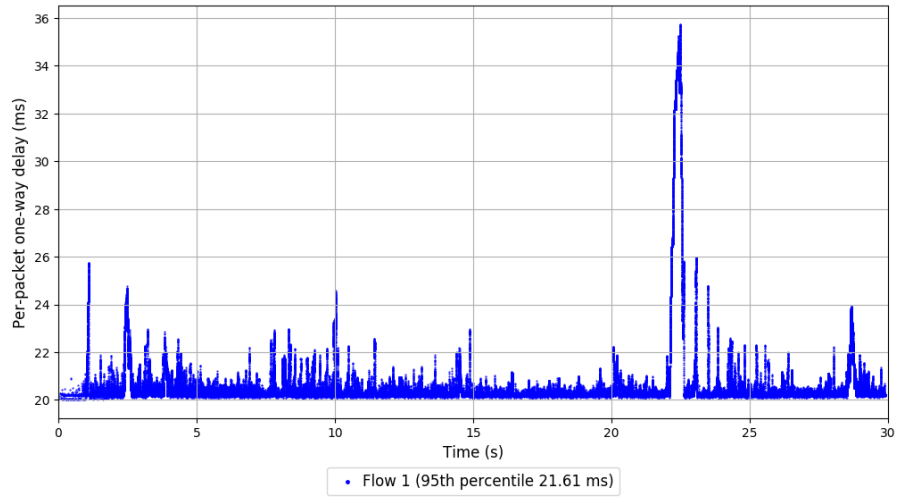
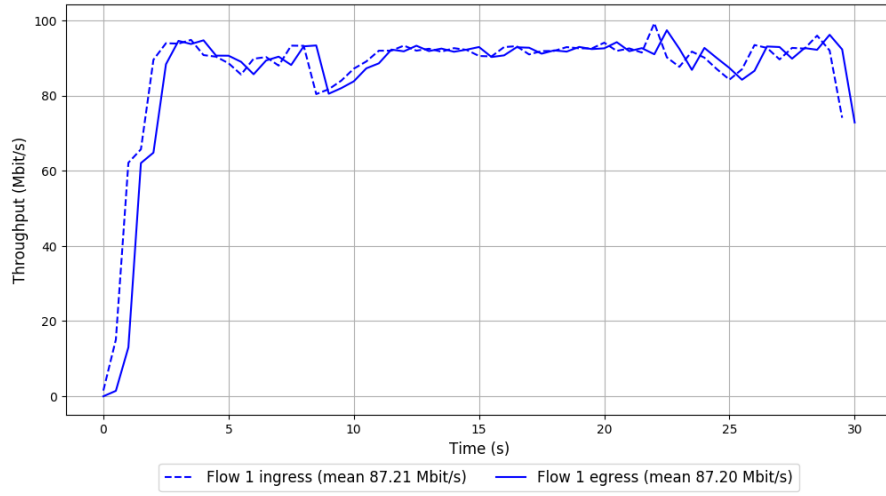
-- Flow 1:

Average throughput: 87.20 Mbit/s

95th percentile per-packet one-way delay: 21.614 ms

Loss rate: 0.09%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-09-18 16:05:51

End at: 2019-09-18 16:06:21

Local clock offset: 0.246 ms

Remote clock offset: 5.268 ms

Below is generated by plot.py at 2019-09-18 18:16:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.59 Mbit/s

95th percentile per-packet one-way delay: 19.439 ms

Loss rate: 4.28%

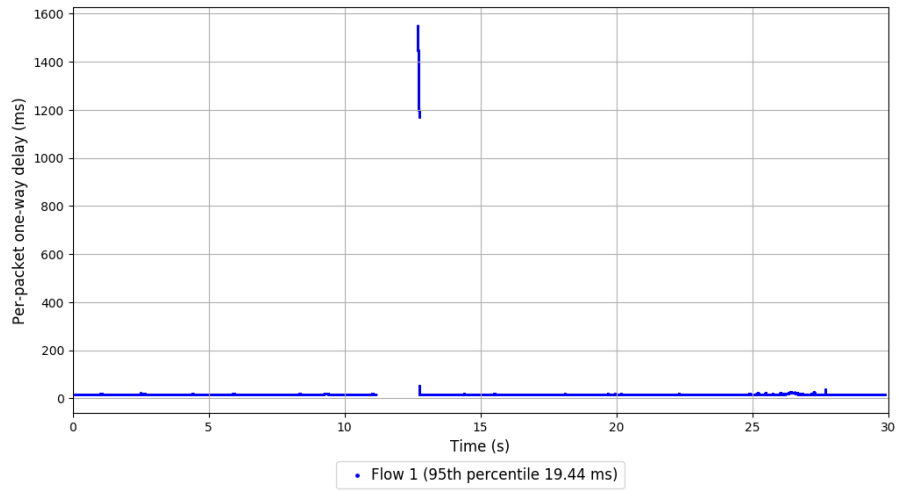
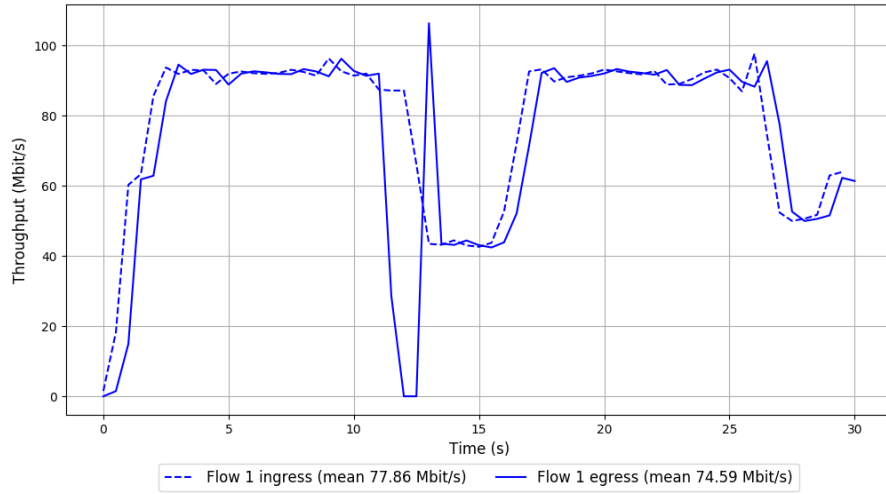
-- Flow 1:

Average throughput: 74.59 Mbit/s

95th percentile per-packet one-way delay: 19.439 ms

Loss rate: 4.28%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-09-18 16:36:12

End at: 2019-09-18 16:36:42

Local clock offset: 5.718 ms

Remote clock offset: 6.038 ms

Below is generated by plot.py at 2019-09-18 18:16:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.33 Mbit/s

95th percentile per-packet one-way delay: 21.604 ms

Loss rate: 0.18%

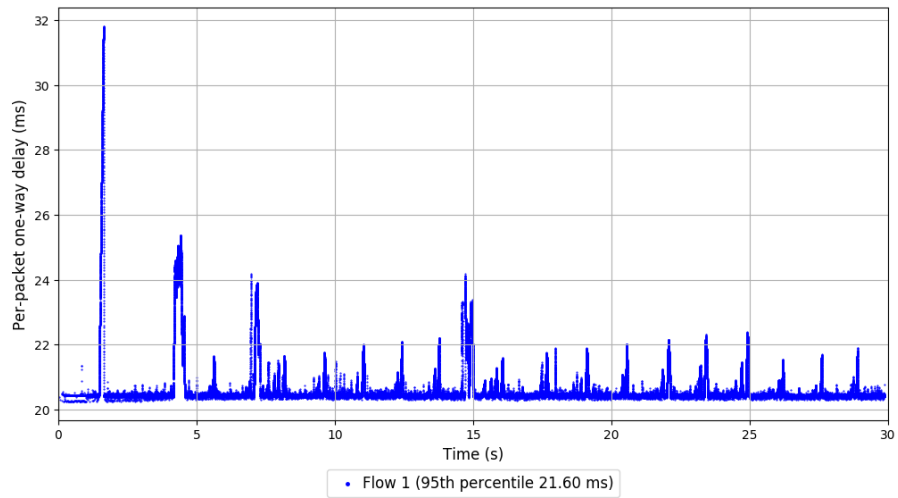
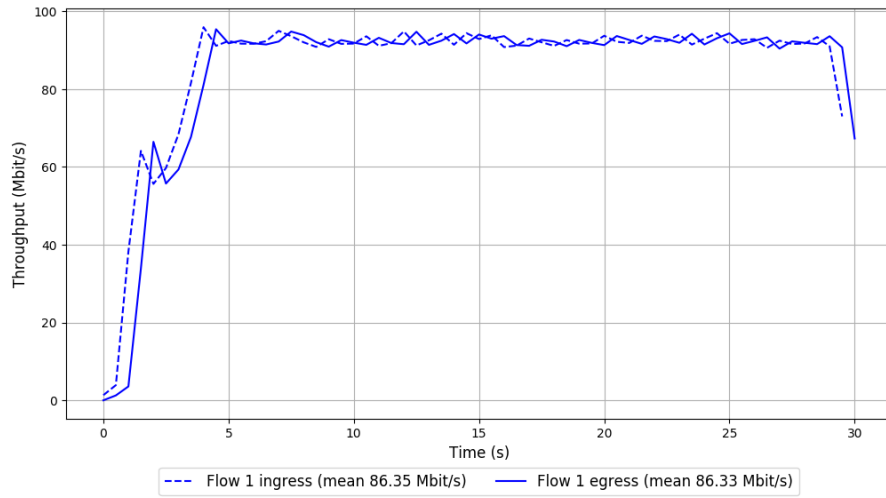
-- Flow 1:

Average throughput: 86.33 Mbit/s

95th percentile per-packet one-way delay: 21.604 ms

Loss rate: 0.18%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-09-18 17:04:56

End at: 2019-09-18 17:05:26

Local clock offset: 4.491 ms

Remote clock offset: 4.262 ms

Below is generated by plot.py at 2019-09-18 18:16:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.31 Mbit/s

95th percentile per-packet one-way delay: 20.678 ms

Loss rate: 0.18%

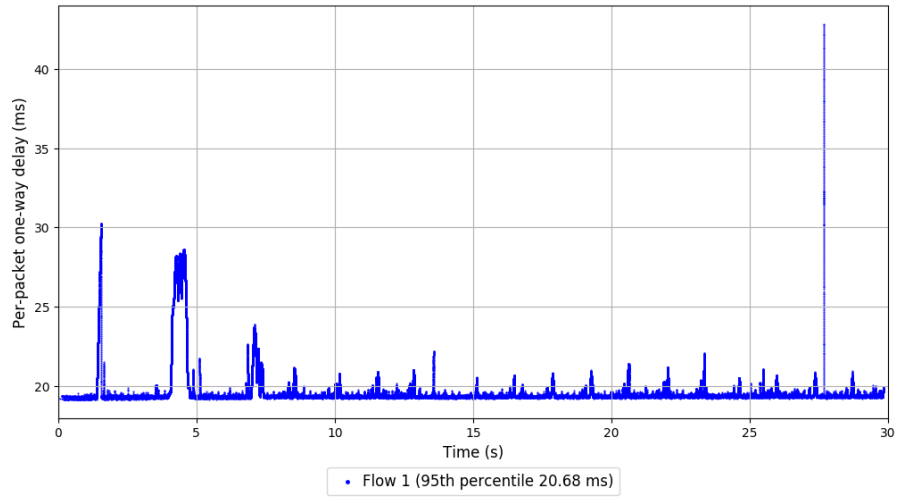
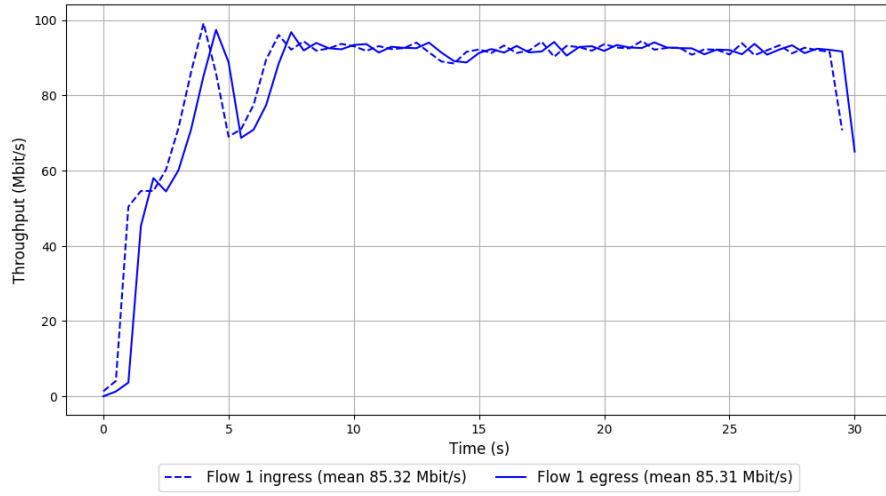
-- Flow 1:

Average throughput: 85.31 Mbit/s

95th percentile per-packet one-way delay: 20.678 ms

Loss rate: 0.18%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-09-18 17:34:07

End at: 2019-09-18 17:34:37

Local clock offset: 3.533 ms

Remote clock offset: 1.358 ms

Below is generated by plot.py at 2019-09-18 18:16:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.90 Mbit/s

95th percentile per-packet one-way delay: 21.866 ms

Loss rate: 0.18%

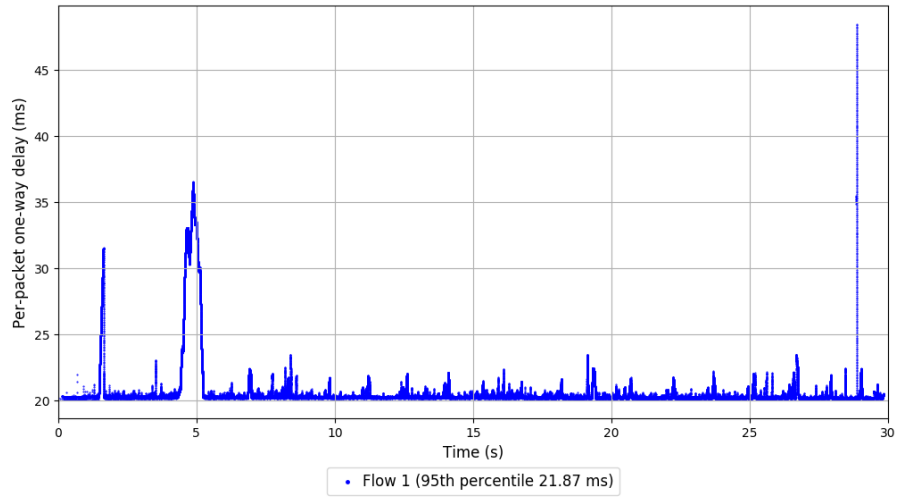
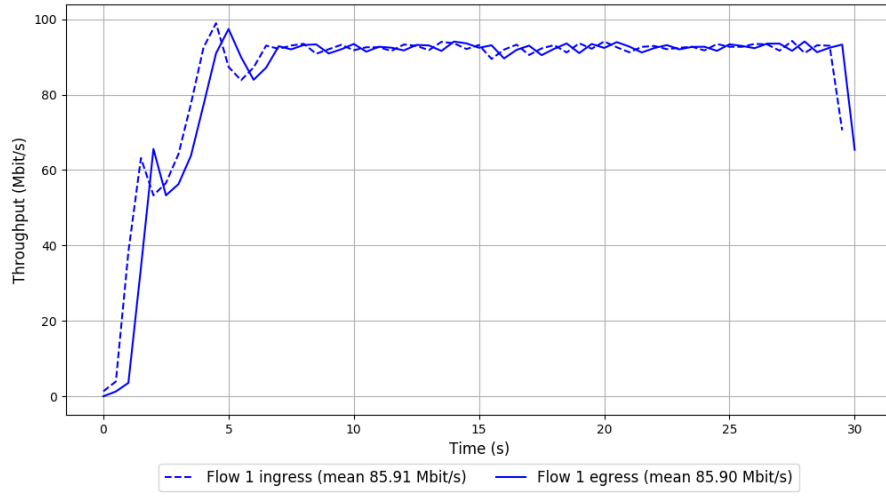
-- Flow 1:

Average throughput: 85.90 Mbit/s

95th percentile per-packet one-way delay: 21.866 ms

Loss rate: 0.18%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-09-18 15:44:42

End at: 2019-09-18 15:45:12

Local clock offset: 6.52 ms

Remote clock offset: 4.874 ms

Below is generated by plot.py at 2019-09-18 18:16:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.41 Mbit/s

95th percentile per-packet one-way delay: 21.825 ms

Loss rate: 0.06%

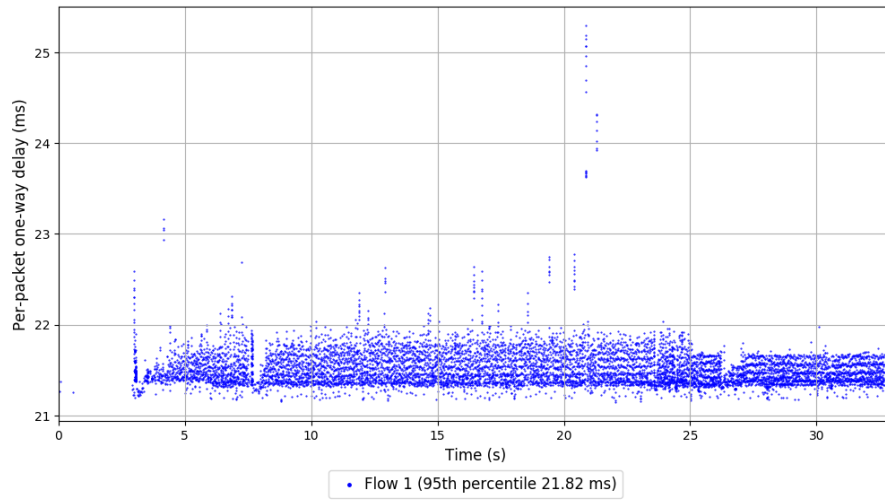
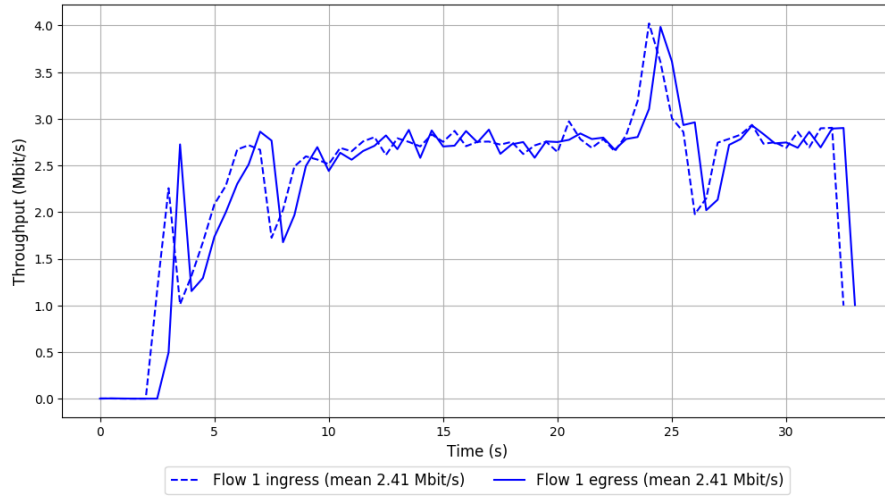
-- Flow 1:

Average throughput: 2.41 Mbit/s

95th percentile per-packet one-way delay: 21.825 ms

Loss rate: 0.06%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-09-18 16:14:27

End at: 2019-09-18 16:14:57

Local clock offset: 5.086 ms

Remote clock offset: 4.462 ms

Below is generated by plot.py at 2019-09-18 18:16:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.41 Mbit/s

95th percentile per-packet one-way delay: 21.750 ms

Loss rate: 0.12%

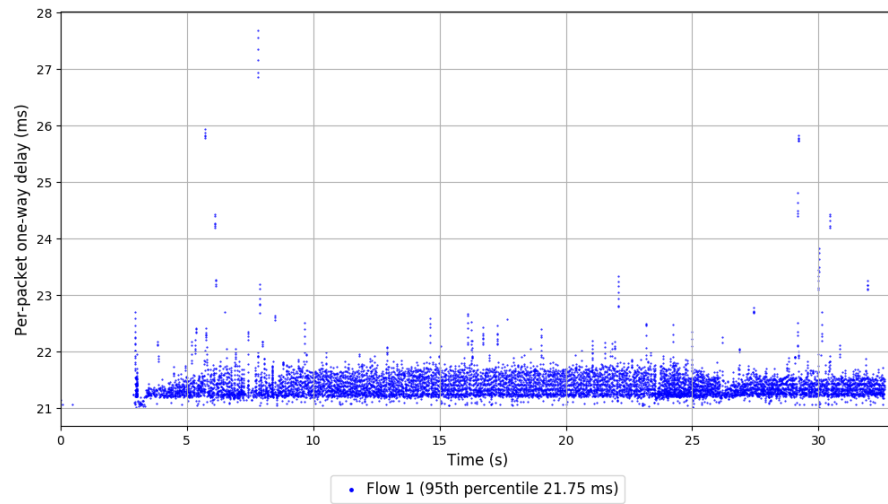
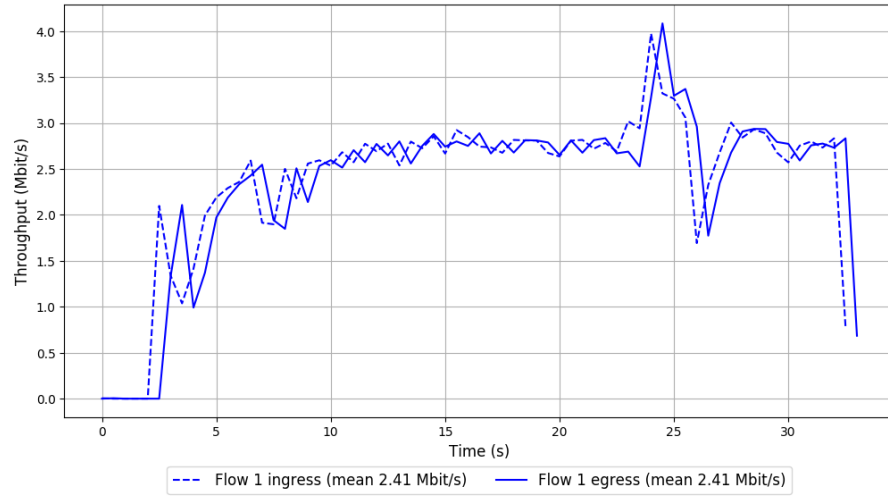
-- Flow 1:

Average throughput: 2.41 Mbit/s

95th percentile per-packet one-way delay: 21.750 ms

Loss rate: 0.12%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-09-18 16:44:22

End at: 2019-09-18 16:44:52

Local clock offset: 4.969 ms

Remote clock offset: 6.906 ms

Below is generated by plot.py at 2019-09-18 18:16:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 19.274 ms

Loss rate: 0.24%

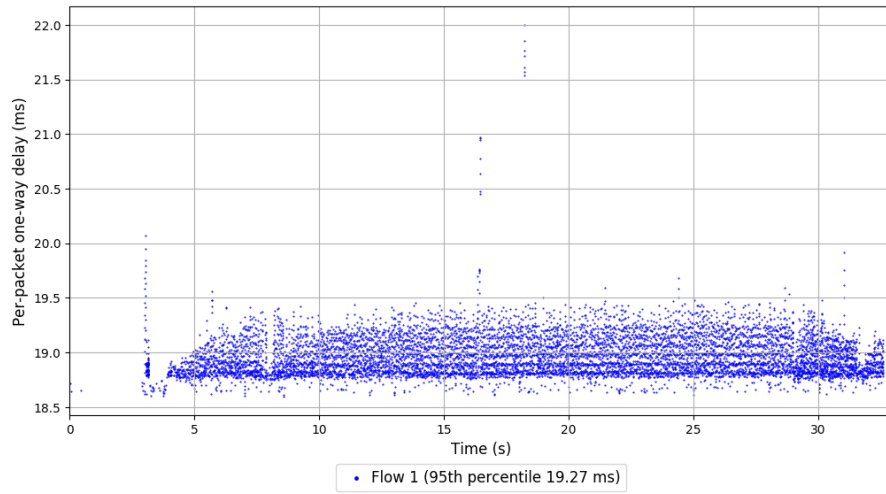
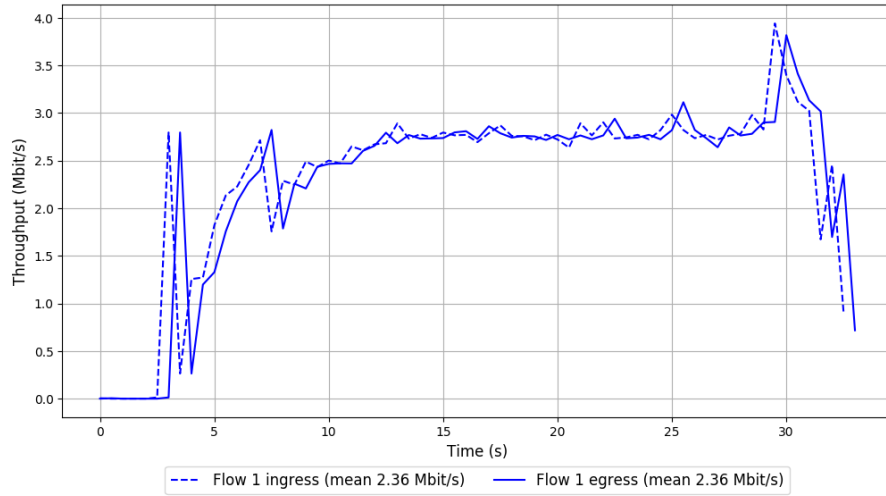
-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 19.274 ms

Loss rate: 0.24%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-09-18 17:13:22

End at: 2019-09-18 17:13:52

Local clock offset: -0.827 ms

Remote clock offset: 3.501 ms

Below is generated by plot.py at 2019-09-18 18:16:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 15.785 ms

Loss rate: 0.19%

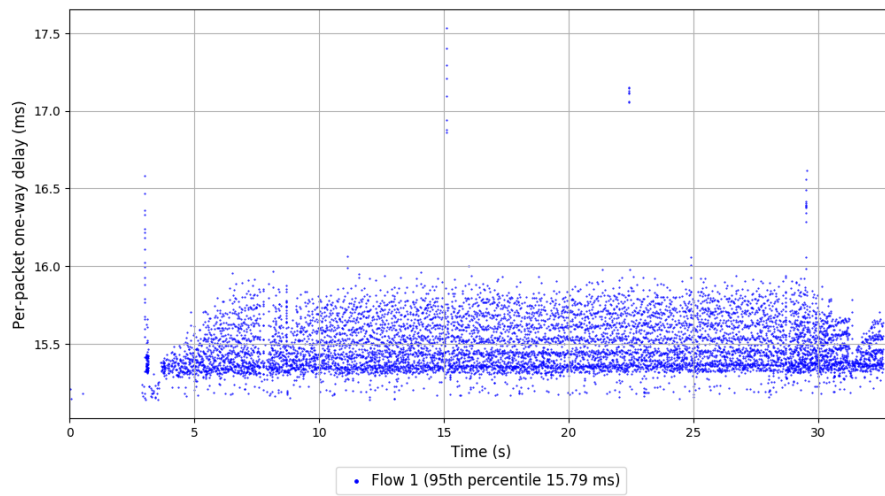
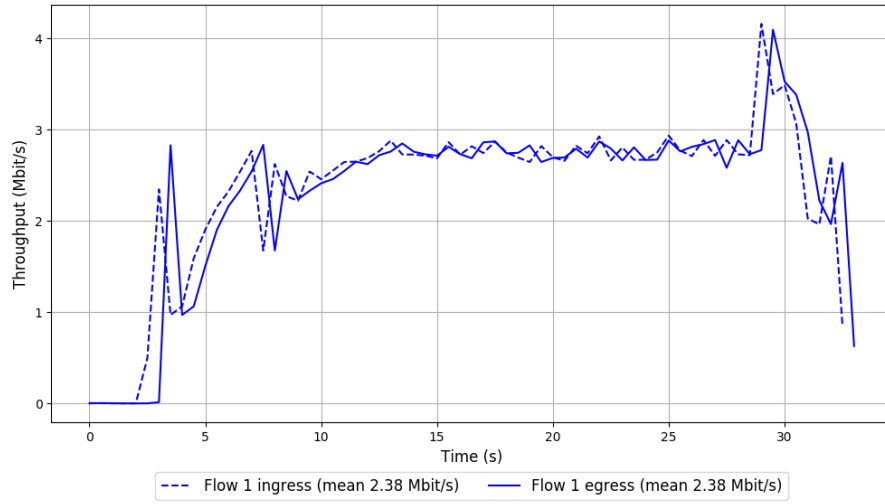
-- Flow 1:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 15.785 ms

Loss rate: 0.19%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-09-18 17:42:30

End at: 2019-09-18 17:43:00

Local clock offset: 3.759 ms

Remote clock offset: -1.32 ms

Below is generated by plot.py at 2019-09-18 18:16:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 22.433 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 22.433 ms

Loss rate: 0.18%

Run 5: Report of WebRTC media — Data Link

