

Pantheon Report

Generated at 2019-10-03 10:47:53 (UTC).

Data path: Mexico on **em1** (*remote*) → AWS California 2 on **ens5** (*local*).

Repeated the test of 24 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

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

System info:

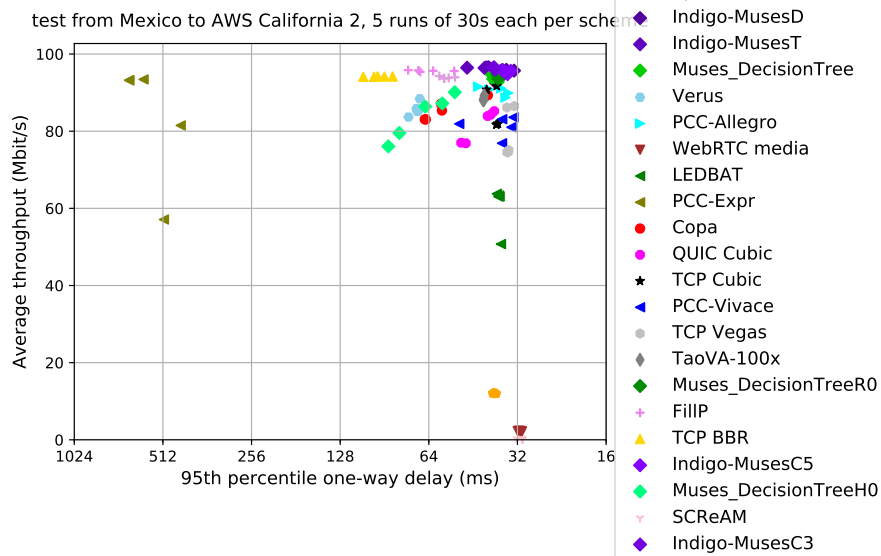
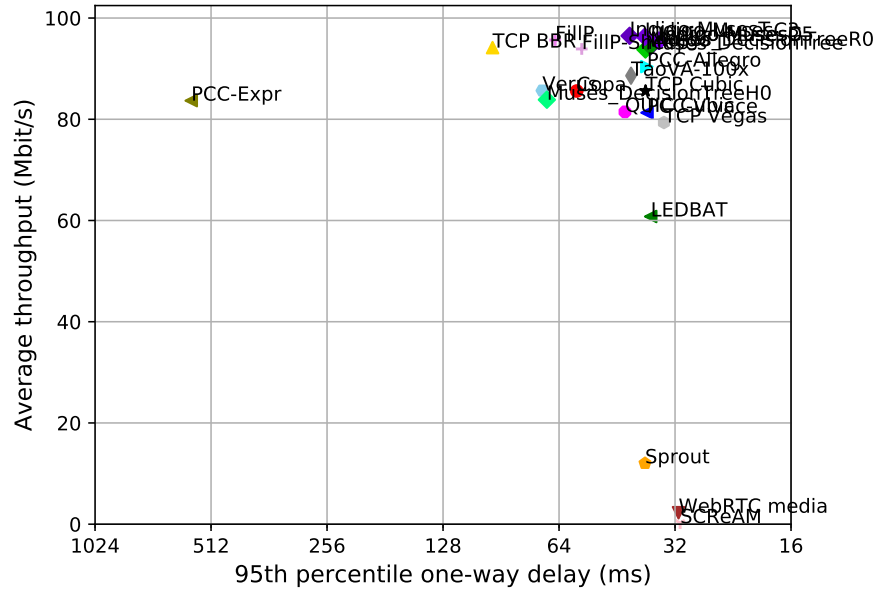
```
Linux 4.15.0-1050-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd9c077e64d
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 Mexico to AWS California 2, 5 runs of 30s each per scheme
(mean of all runs by scheme)



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	94.15	95.21	2.18
Copa	5	85.58	57.58	0.25
TCP Cubic	5	85.60	38.17	0.25
FillP	5	95.65	65.51	0.59
FillP-Sheep	5	93.89	55.88	0.30
Indigo	5	94.38	37.08	0.23
Indigo-MusesC3	5	96.30	38.33	0.24
Indigo-MusesC5	5	95.53	35.18	0.24
Indigo-MusesD	5	95.49	35.30	0.23
Indigo-MusesT	5	96.49	41.99	0.47
LEDBAT	5	60.79	37.01	0.21
Muses_DecisionTree	5	93.78	38.19	0.21
Muses_DecisionTreeH0	5	83.86	68.83	0.32
Muses_DecisionTreeR0	5	94.52	37.14	0.24
PCC-Allegro	5	90.40	37.86	0.25
PCC-Expr	5	83.68	576.45	12.12
QUIC Cubic	5	81.46	43.17	0.24
SCReAM	5	0.21	31.04	0.23
Sprout	5	12.04	38.29	0.24
TaoVA-100x	5	88.60	41.63	0.23
TCP Vegas	5	79.36	34.19	0.27
Verus	5	85.67	70.76	0.37
PCC-Vivace	5	81.30	37.84	0.25
WebRTC media	5	2.26	31.34	0.24

Run 1: Statistics of TCP BBR

Start at: 2019-10-03 07:17:37

End at: 2019-10-03 07:18:07

Local clock offset: 0.271 ms

Remote clock offset: 7.818 ms

Below is generated by plot.py at 2019-10-03 10:32:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.10 Mbit/s

95th percentile per-packet one-way delay: 106.813 ms

Loss rate: 3.04%

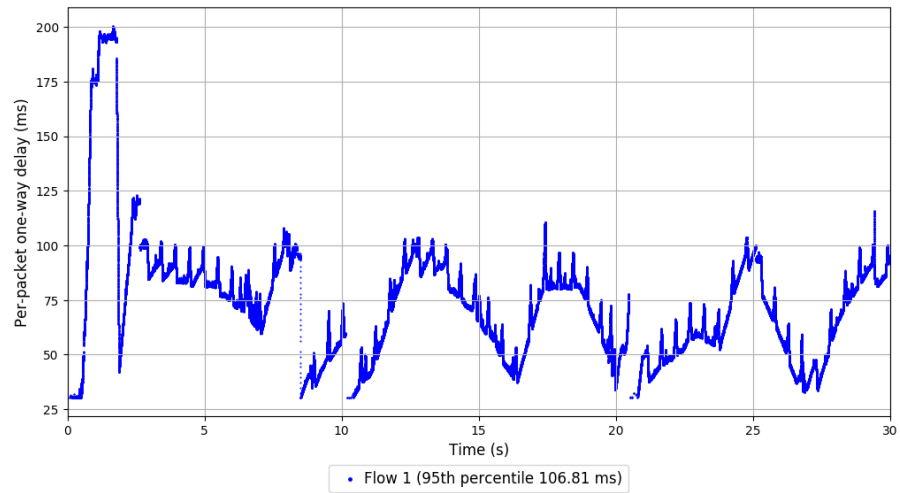
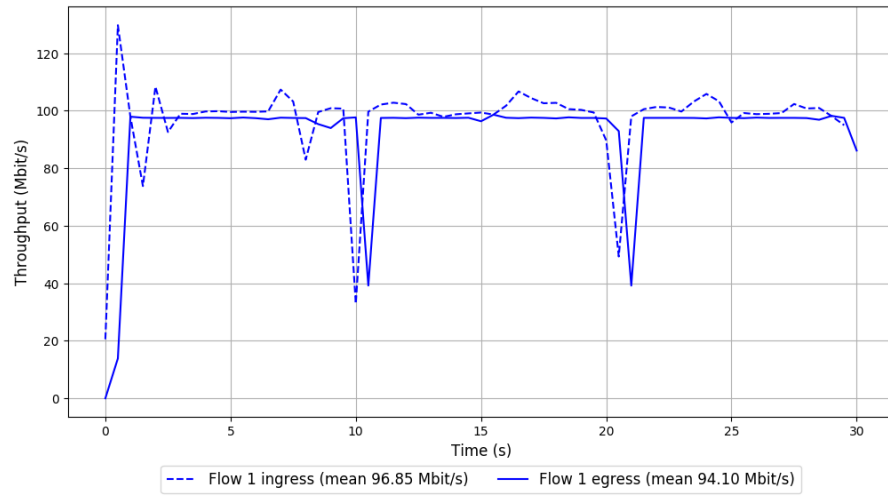
-- Flow 1:

Average throughput: 94.10 Mbit/s

95th percentile per-packet one-way delay: 106.813 ms

Loss rate: 3.04%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-10-03 08:06:24

End at: 2019-10-03 08:06:54

Local clock offset: 0.151 ms

Remote clock offset: 7.659 ms

Below is generated by plot.py at 2019-10-03 10:32:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.17 Mbit/s

95th percentile per-packet one-way delay: 84.933 ms

Loss rate: 2.57%

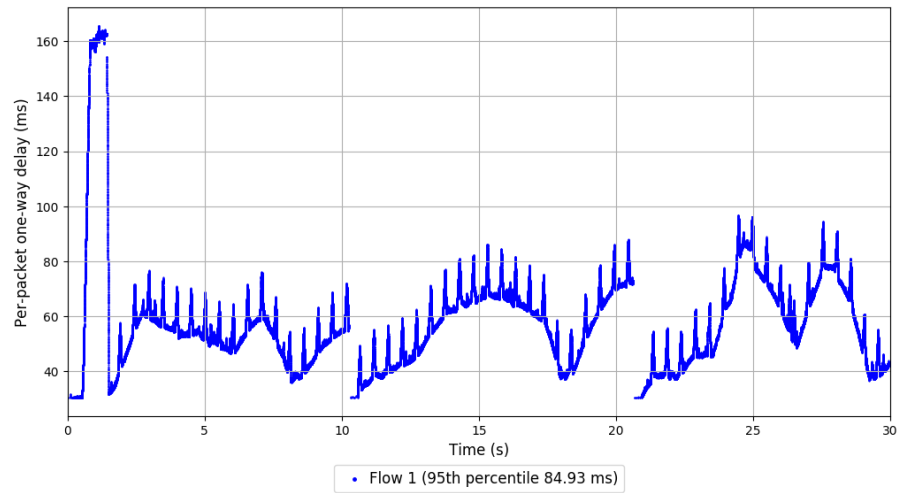
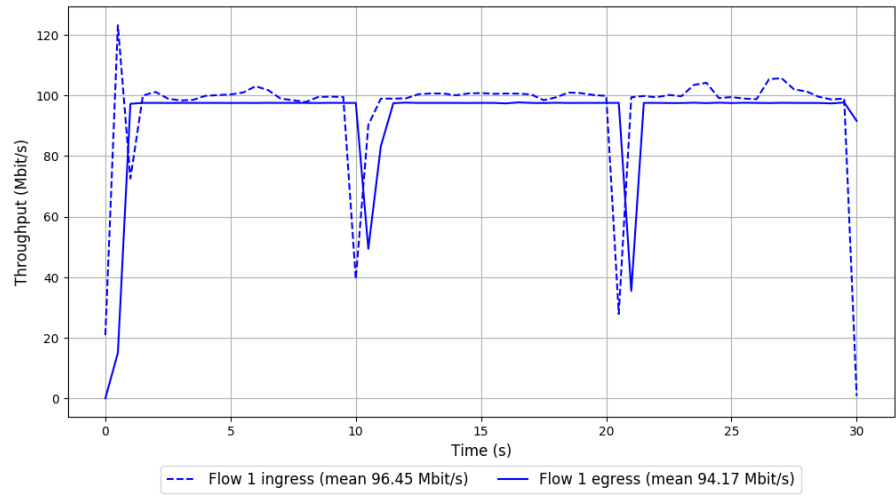
-- Flow 1:

Average throughput: 94.17 Mbit/s

95th percentile per-packet one-way delay: 84.933 ms

Loss rate: 2.57%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-10-03 08:50:12

End at: 2019-10-03 08:50:42

Local clock offset: 0.176 ms

Remote clock offset: 7.237 ms

Below is generated by plot.py at 2019-10-03 10:32:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.24 Mbit/s

95th percentile per-packet one-way delay: 95.504 ms

Loss rate: 1.63%

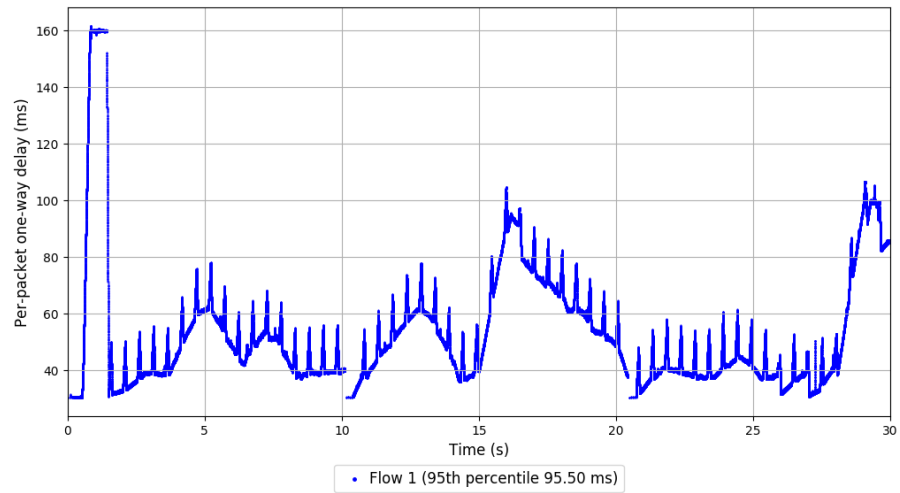
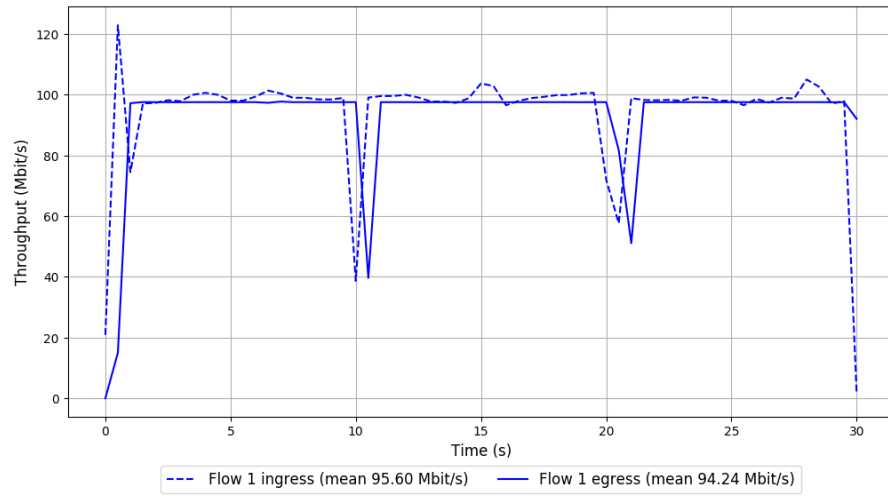
-- Flow 1:

Average throughput: 94.24 Mbit/s

95th percentile per-packet one-way delay: 95.504 ms

Loss rate: 1.63%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-10-03 09:28:30

End at: 2019-10-03 09:29:00

Local clock offset: 0.093 ms

Remote clock offset: 7.283 ms

Below is generated by plot.py at 2019-10-03 10:32:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.10 Mbit/s

95th percentile per-packet one-way delay: 98.243 ms

Loss rate: 2.00%

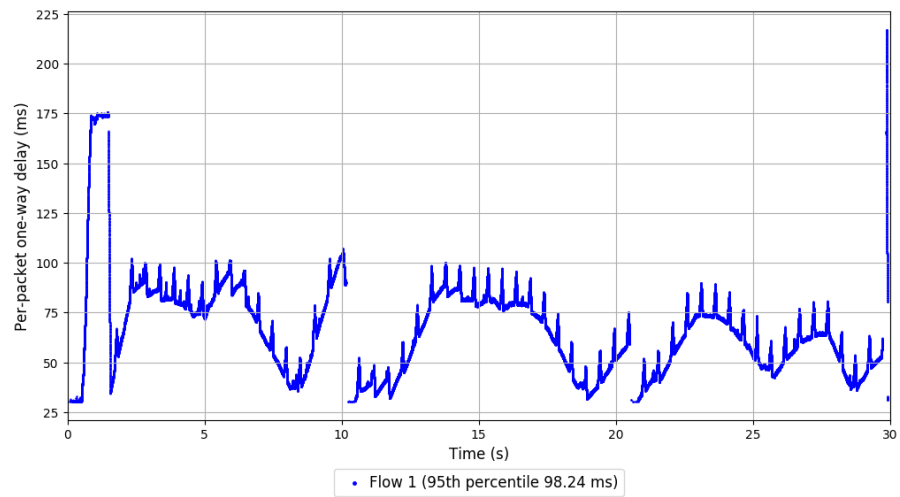
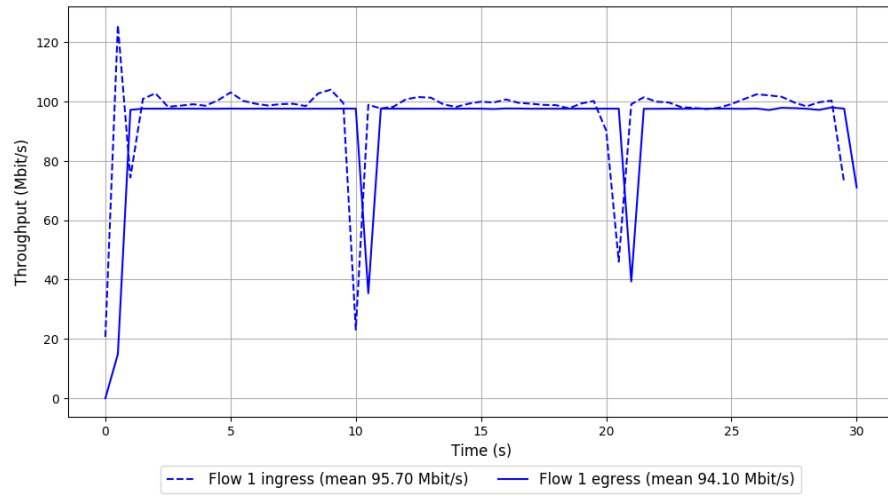
-- Flow 1:

Average throughput: 94.10 Mbit/s

95th percentile per-packet one-way delay: 98.243 ms

Loss rate: 2.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-10-03 10:07:55

End at: 2019-10-03 10:08:25

Local clock offset: 0.196 ms

Remote clock offset: 8.017 ms

Below is generated by plot.py at 2019-10-03 10:32:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.16 Mbit/s

95th percentile per-packet one-way delay: 90.539 ms

Loss rate: 1.67%

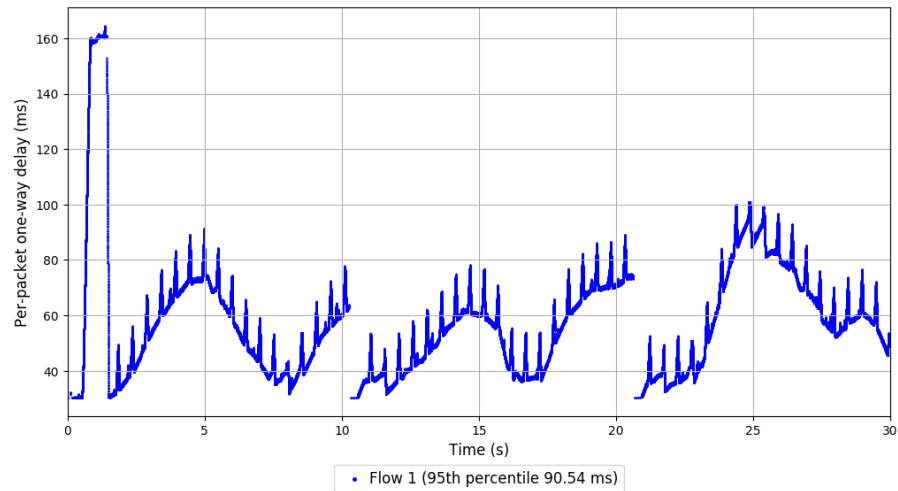
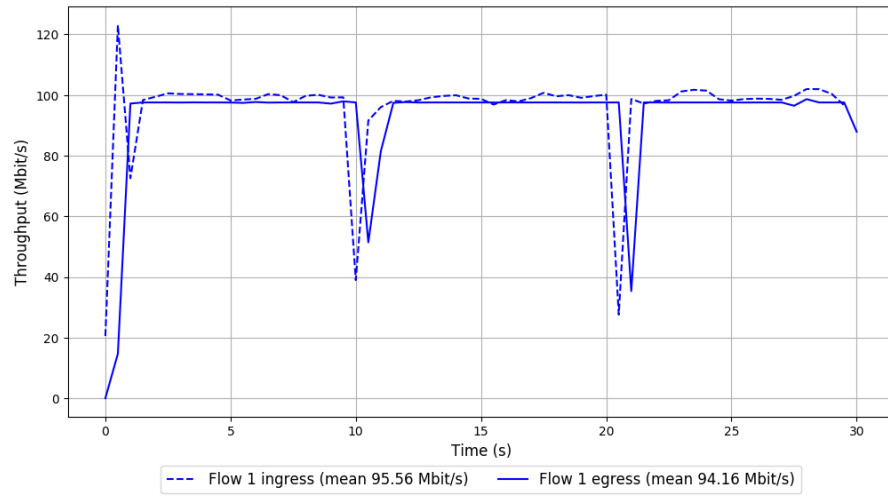
-- Flow 1:

Average throughput: 94.16 Mbit/s

95th percentile per-packet one-way delay: 90.539 ms

Loss rate: 1.67%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-10-03 06:57:43

End at: 2019-10-03 06:58:13

Local clock offset: 0.175 ms

Remote clock offset: 7.691 ms

Below is generated by plot.py at 2019-10-03 10:33:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.36 Mbit/s

95th percentile per-packet one-way delay: 57.769 ms

Loss rate: 0.25%

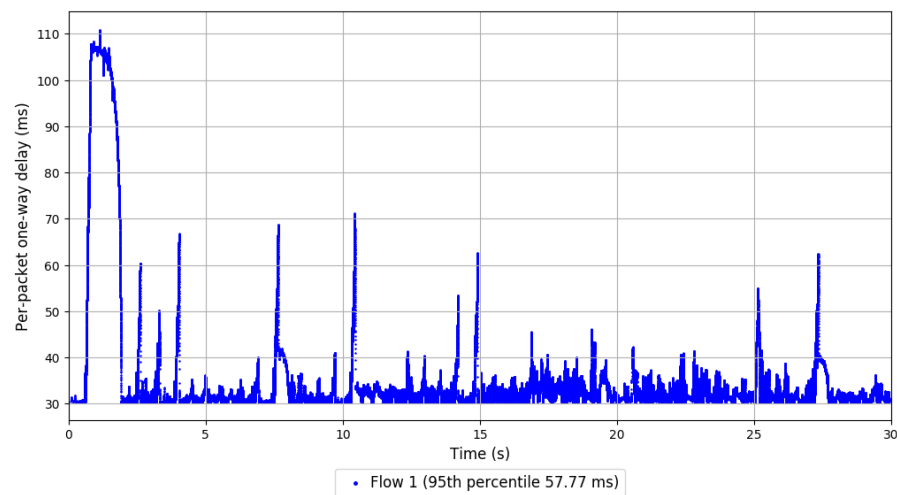
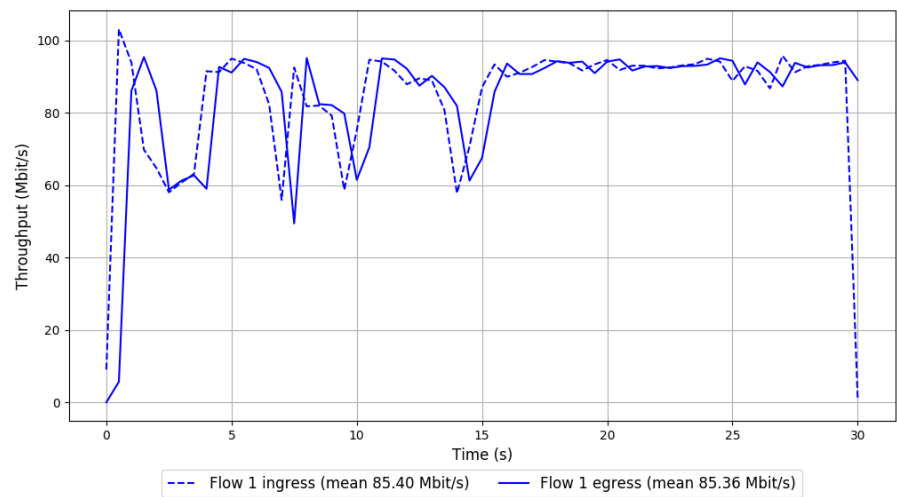
-- Flow 1:

Average throughput: 85.36 Mbit/s

95th percentile per-packet one-way delay: 57.769 ms

Loss rate: 0.25%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-10-03 07:47:12

End at: 2019-10-03 07:47:42

Local clock offset: 0.277 ms

Remote clock offset: 7.562 ms

Below is generated by plot.py at 2019-10-03 10:33:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.11 Mbit/s

95th percentile per-packet one-way delay: 58.197 ms

Loss rate: 0.22%

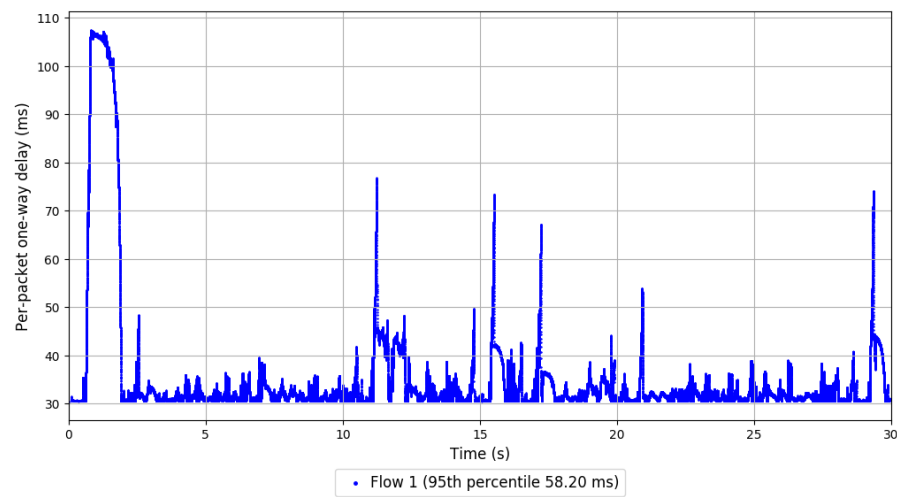
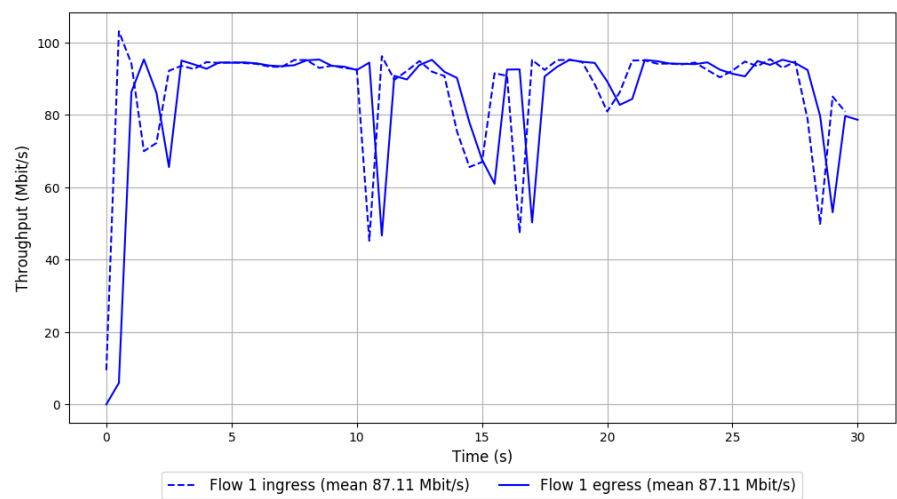
-- Flow 1:

Average throughput: 87.11 Mbit/s

95th percentile per-packet one-way delay: 58.197 ms

Loss rate: 0.22%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-10-03 08:35:29

End at: 2019-10-03 08:35:59

Local clock offset: 0.172 ms

Remote clock offset: 7.291 ms

Below is generated by plot.py at 2019-10-03 10:33:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.07 Mbit/s

95th percentile per-packet one-way delay: 66.043 ms

Loss rate: 0.24%

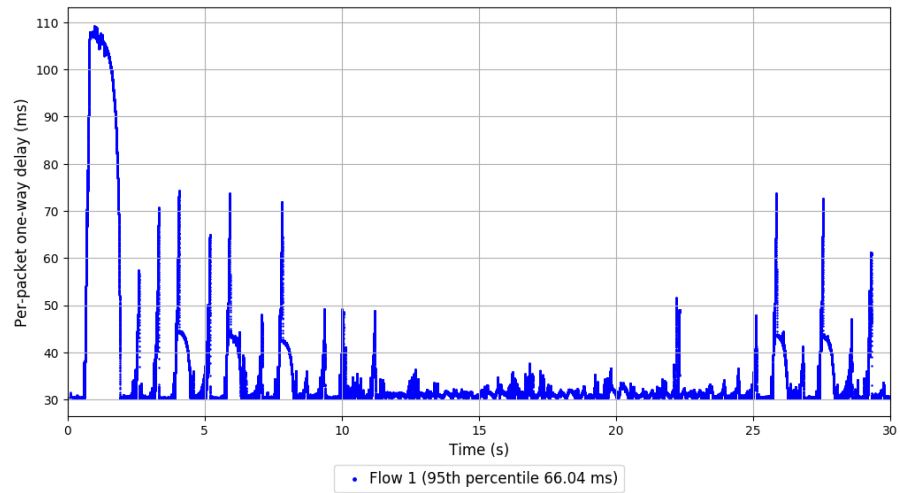
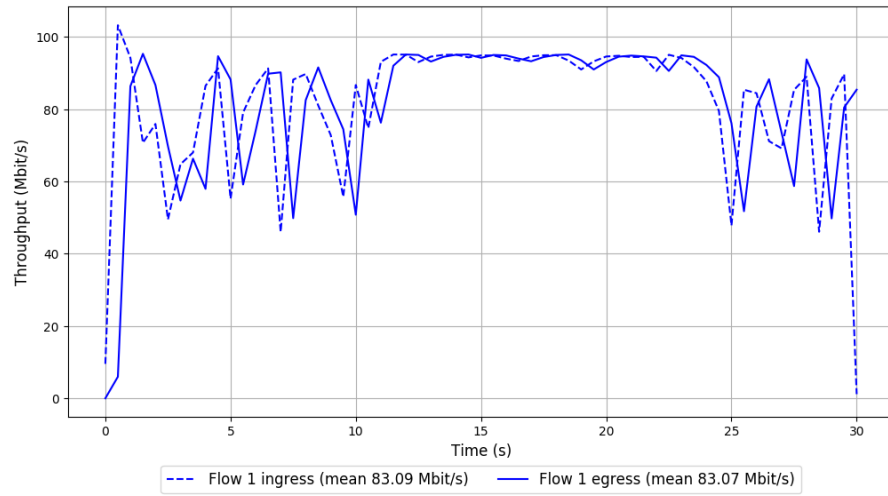
-- Flow 1:

Average throughput: 83.07 Mbit/s

95th percentile per-packet one-way delay: 66.043 ms

Loss rate: 0.24%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-10-03 09:13:52

End at: 2019-10-03 09:14:22

Local clock offset: 0.142 ms

Remote clock offset: 7.197 ms

Below is generated by plot.py at 2019-10-03 10:34:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.05 Mbit/s

95th percentile per-packet one-way delay: 65.516 ms

Loss rate: 0.29%

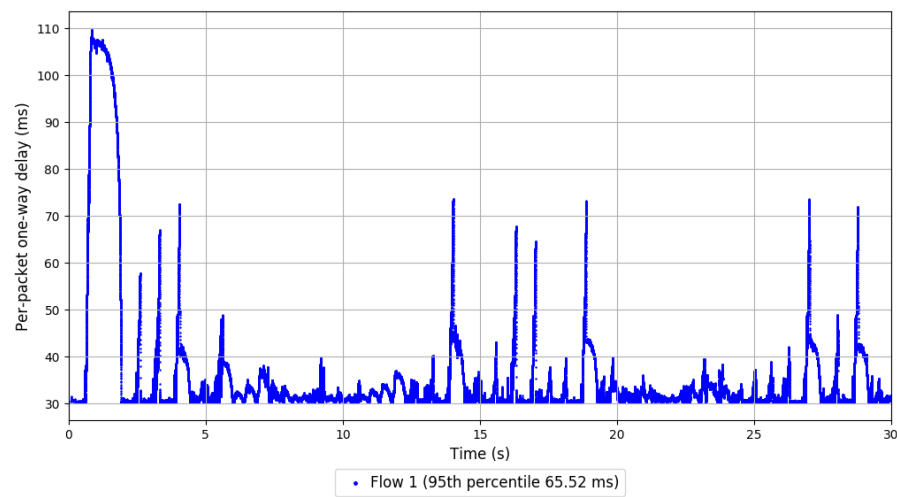
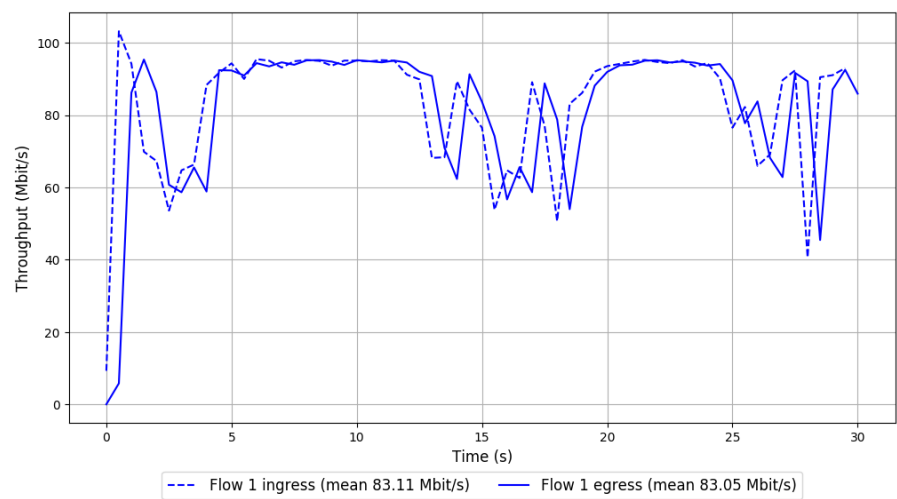
-- Flow 1:

Average throughput: 83.05 Mbit/s

95th percentile per-packet one-way delay: 65.516 ms

Loss rate: 0.29%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-10-03 09:53:35

End at: 2019-10-03 09:54:05

Local clock offset: 0.065 ms

Remote clock offset: 7.773 ms

Below is generated by plot.py at 2019-10-03 10:34:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.32 Mbit/s

95th percentile per-packet one-way delay: 40.351 ms

Loss rate: 0.23%

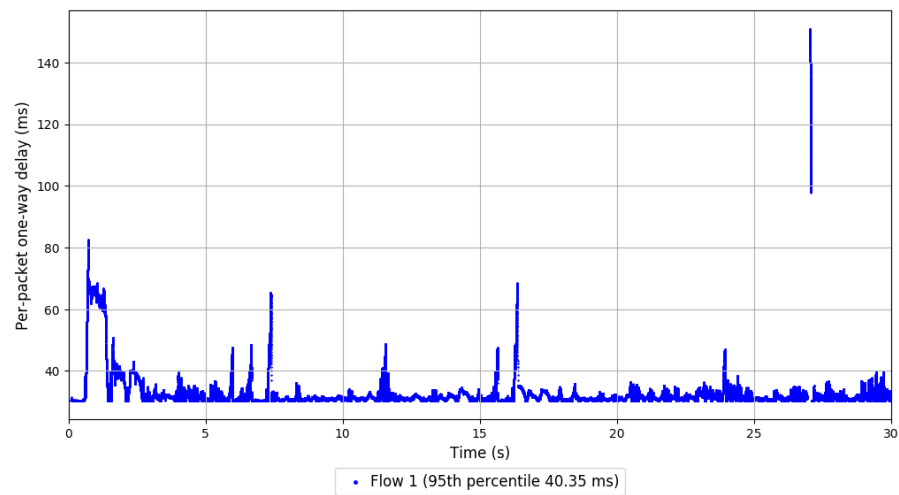
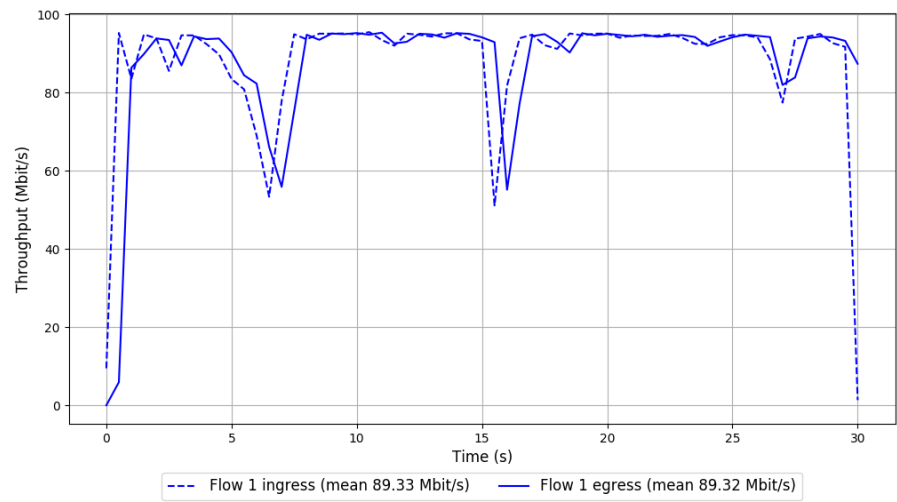
-- Flow 1:

Average throughput: 89.32 Mbit/s

95th percentile per-packet one-way delay: 40.351 ms

Loss rate: 0.23%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-10-03 07:06:44

End at: 2019-10-03 07:07:14

Local clock offset: 0.241 ms

Remote clock offset: 7.714 ms

Below is generated by plot.py at 2019-10-03 10:34:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.73 Mbit/s

95th percentile per-packet one-way delay: 37.643 ms

Loss rate: 0.26%

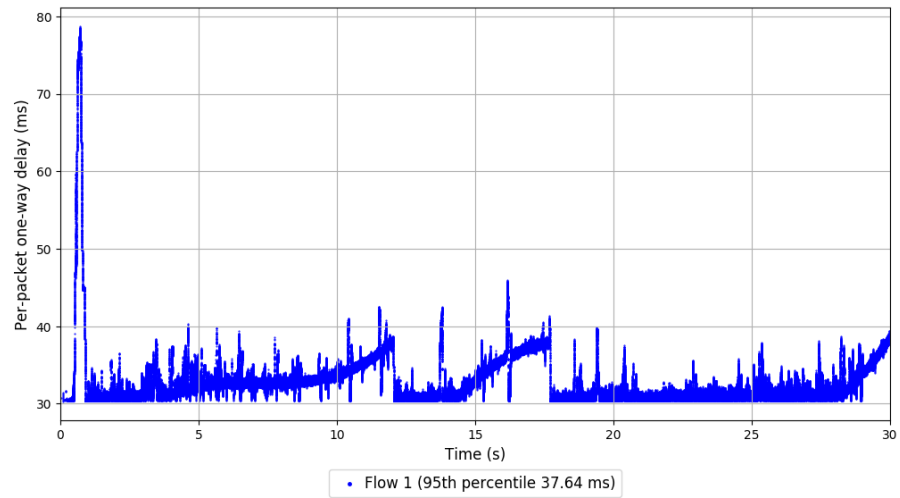
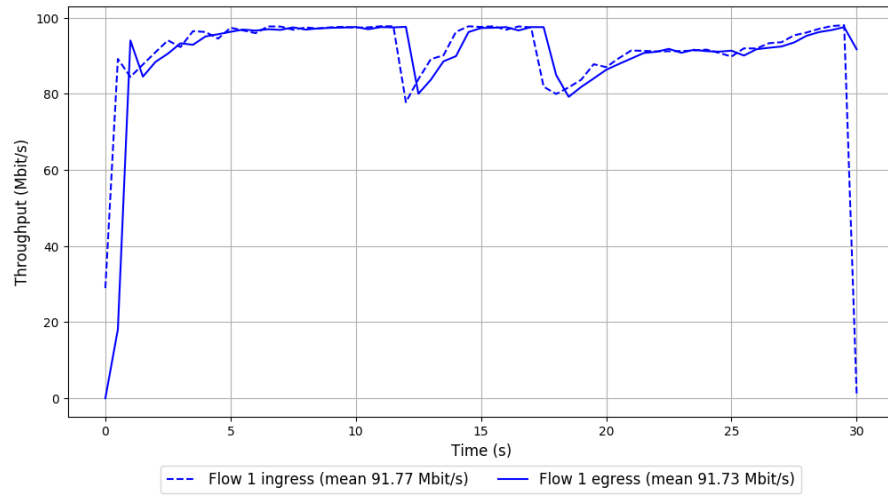
-- Flow 1:

Average throughput: 91.73 Mbit/s

95th percentile per-packet one-way delay: 37.643 ms

Loss rate: 0.26%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-10-03 07:57:11

End at: 2019-10-03 07:57:41

Local clock offset: 0.235 ms

Remote clock offset: 7.633 ms

Below is generated by plot.py at 2019-10-03 10:34:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.68 Mbit/s

95th percentile per-packet one-way delay: 37.751 ms

Loss rate: 0.25%

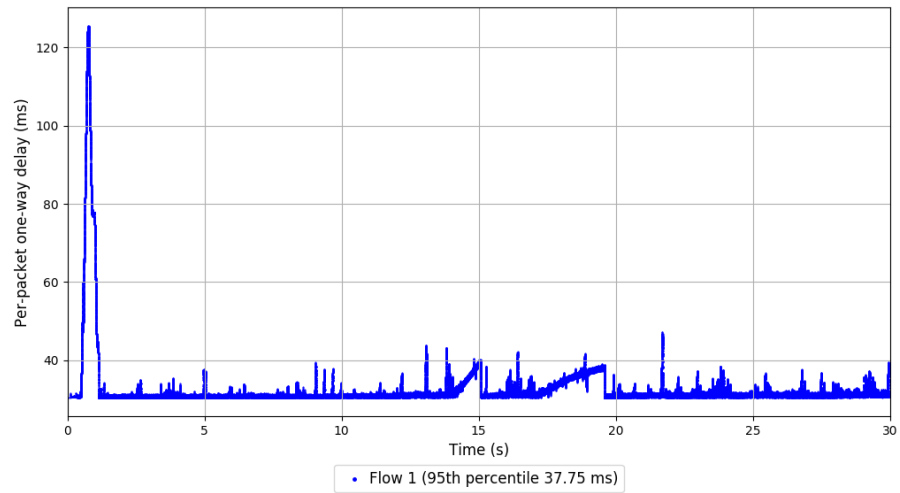
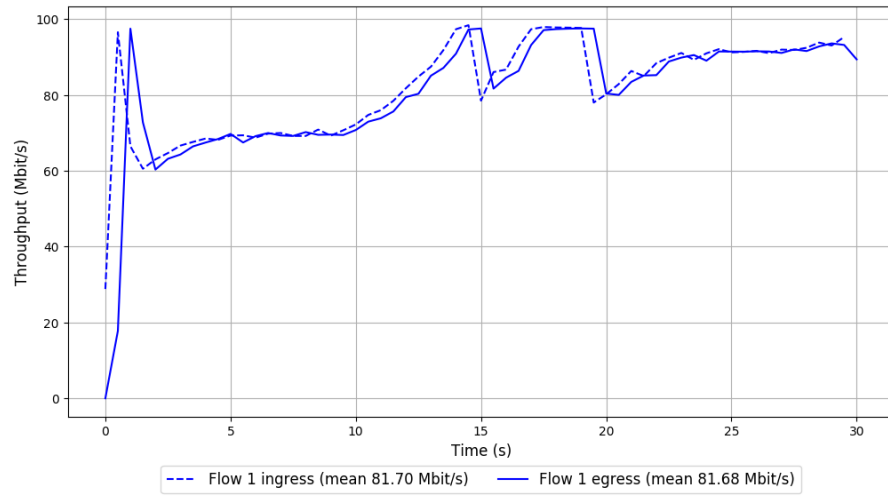
-- Flow 1:

Average throughput: 81.68 Mbit/s

95th percentile per-packet one-way delay: 37.751 ms

Loss rate: 0.25%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2019-10-03 08:42:24

End at: 2019-10-03 08:42:54

Local clock offset: 0.203 ms

Remote clock offset: 7.31 ms

Below is generated by plot.py at 2019-10-03 10:34:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.91 Mbit/s

95th percentile per-packet one-way delay: 37.453 ms

Loss rate: 0.26%

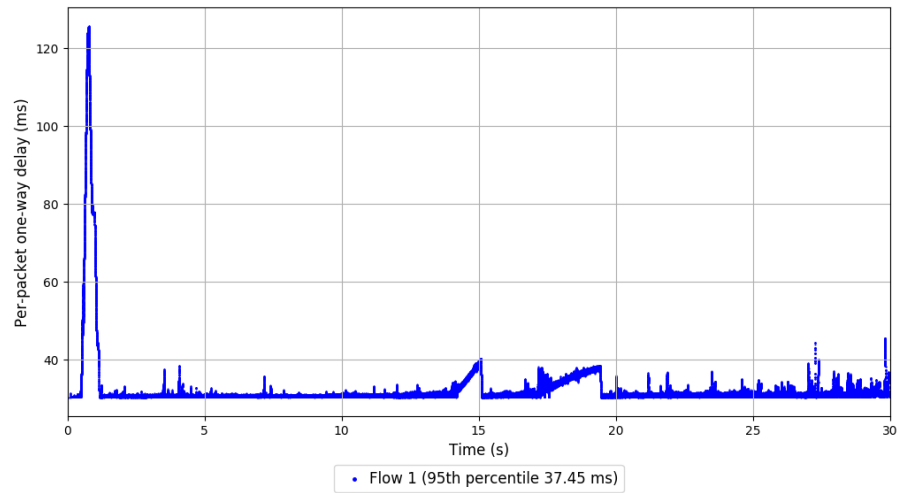
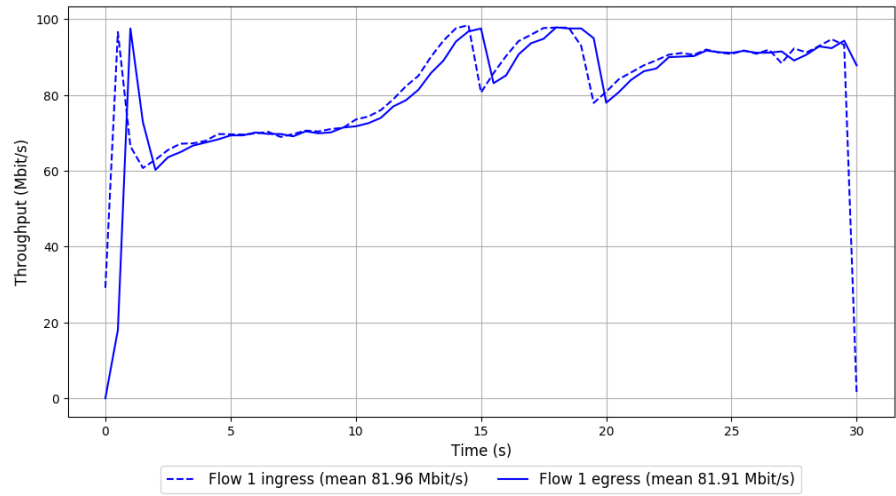
-- Flow 1:

Average throughput: 81.91 Mbit/s

95th percentile per-packet one-way delay: 37.453 ms

Loss rate: 0.26%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-10-03 09:20:33

End at: 2019-10-03 09:21:03

Local clock offset: 0.097 ms

Remote clock offset: 7.321 ms

Below is generated by plot.py at 2019-10-03 10:34:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.76 Mbit/s

95th percentile per-packet one-way delay: 40.725 ms

Loss rate: 0.23%

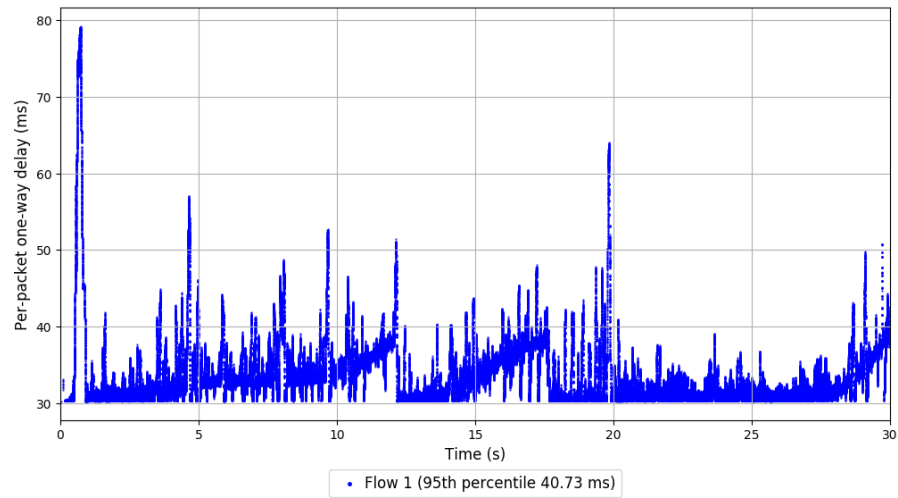
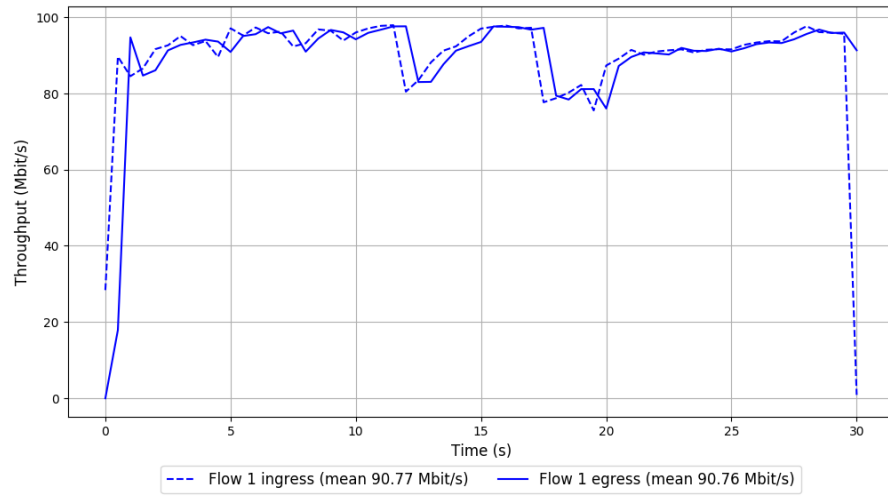
-- Flow 1:

Average throughput: 90.76 Mbit/s

95th percentile per-packet one-way delay: 40.725 ms

Loss rate: 0.23%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-10-03 10:00:05

End at: 2019-10-03 10:00:35

Local clock offset: 0.144 ms

Remote clock offset: 7.827 ms

Below is generated by plot.py at 2019-10-03 10:34:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.94 Mbit/s

95th percentile per-packet one-way delay: 37.273 ms

Loss rate: 0.27%

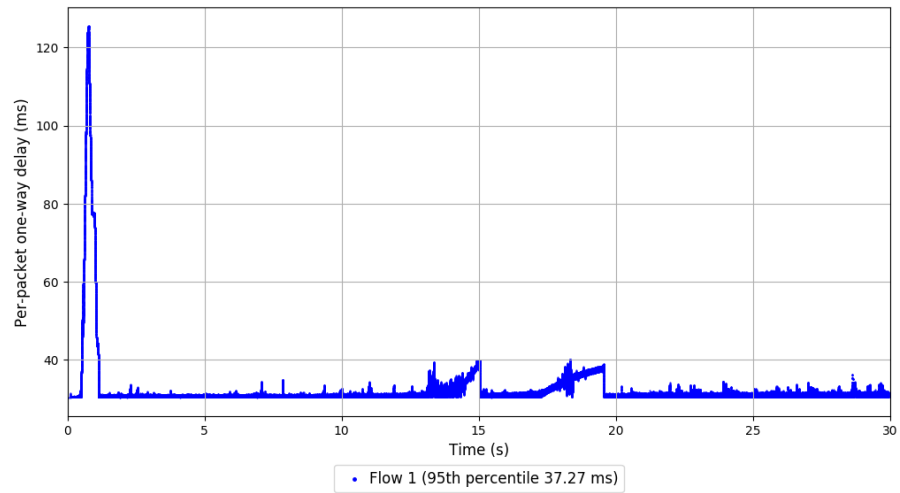
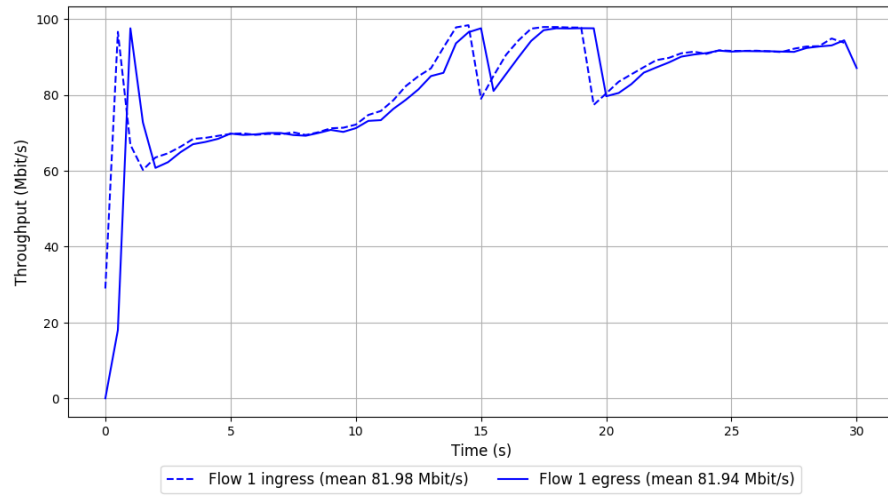
-- Flow 1:

Average throughput: 81.94 Mbit/s

95th percentile per-packet one-way delay: 37.273 ms

Loss rate: 0.27%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-10-03 07:38:00

End at: 2019-10-03 07:38:30

Local clock offset: 0.259 ms

Remote clock offset: 7.573 ms

Below is generated by plot.py at 2019-10-03 10:35:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.82 Mbit/s

95th percentile per-packet one-way delay: 75.234 ms

Loss rate: 0.70%

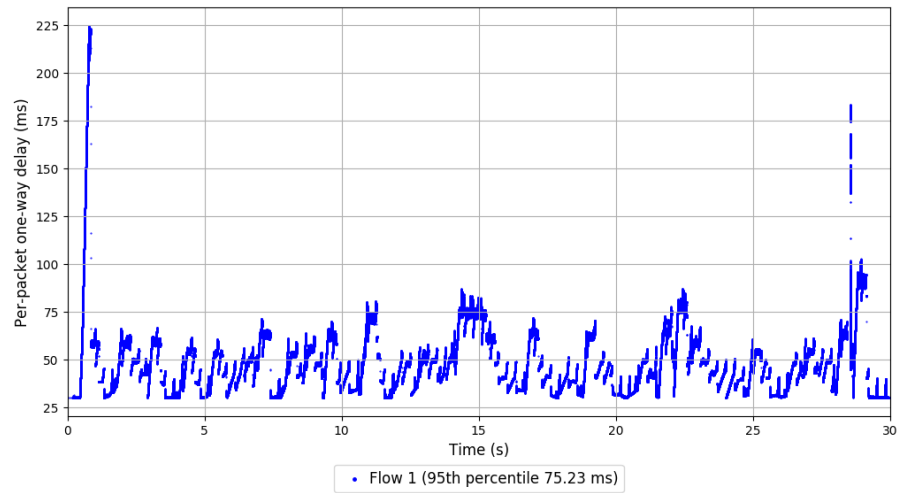
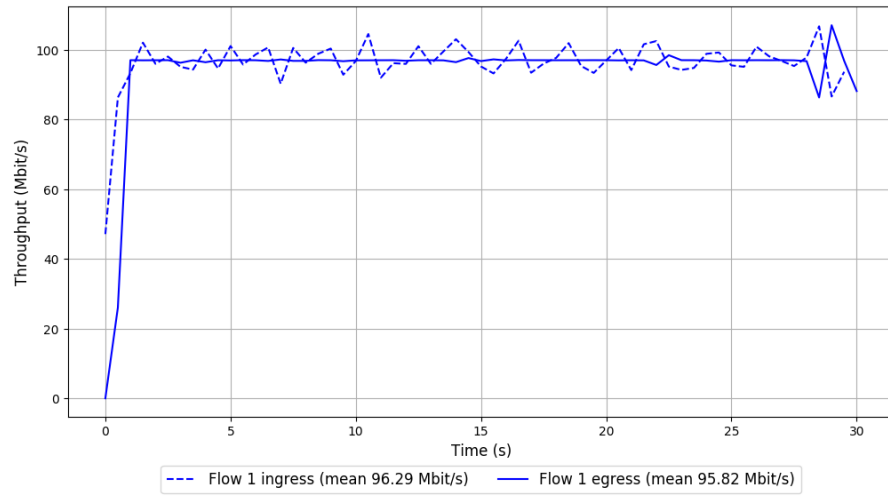
-- Flow 1:

Average throughput: 95.82 Mbit/s

95th percentile per-packet one-way delay: 75.234 ms

Loss rate: 0.70%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-10-03 08:26:16

End at: 2019-10-03 08:26:46

Local clock offset: 0.121 ms

Remote clock offset: 7.976 ms

Below is generated by plot.py at 2019-10-03 10:35:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.39 Mbit/s

95th percentile per-packet one-way delay: 68.480 ms

Loss rate: 0.81%

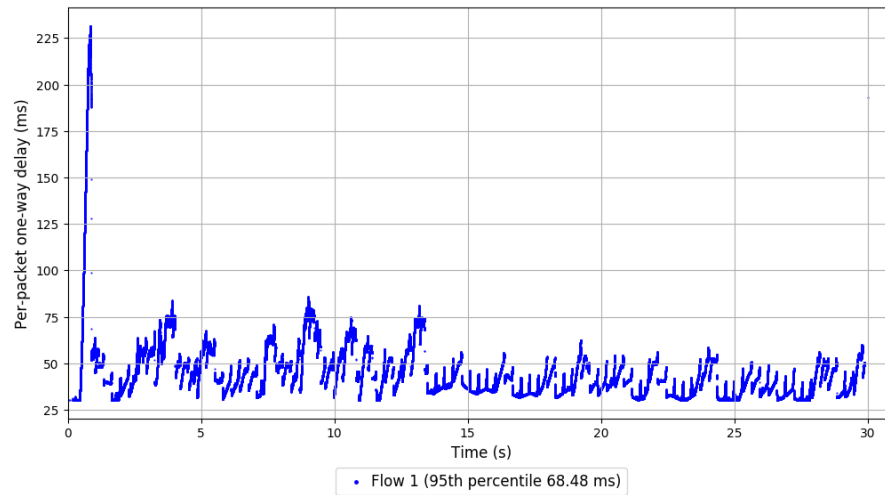
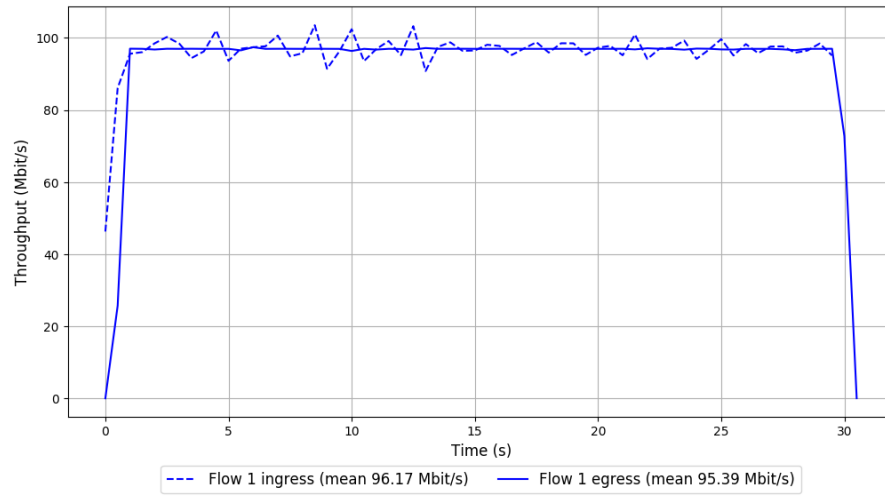
-- Flow 1:

Average throughput: 95.39 Mbit/s

95th percentile per-packet one-way delay: 68.480 ms

Loss rate: 0.81%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-10-03 09:05:10

End at: 2019-10-03 09:05:40

Local clock offset: 0.142 ms

Remote clock offset: 7.298 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.76 Mbit/s

95th percentile per-packet one-way delay: 69.449 ms

Loss rate: 0.76%

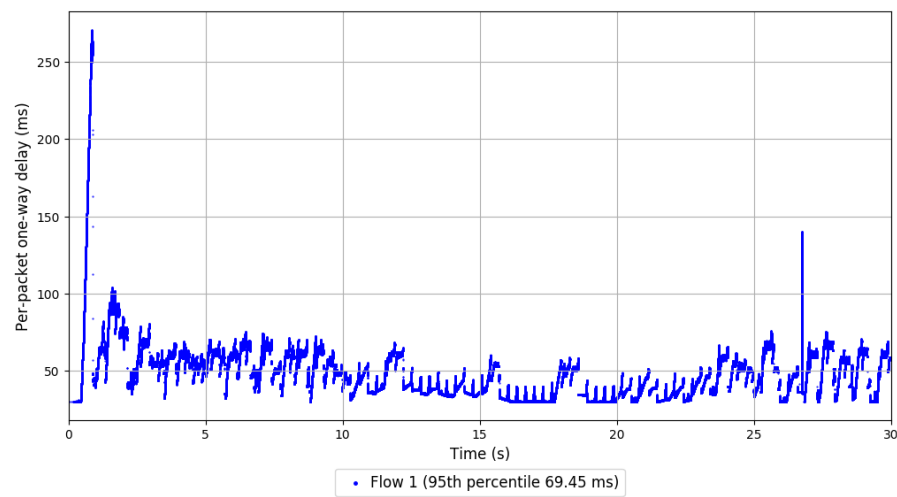
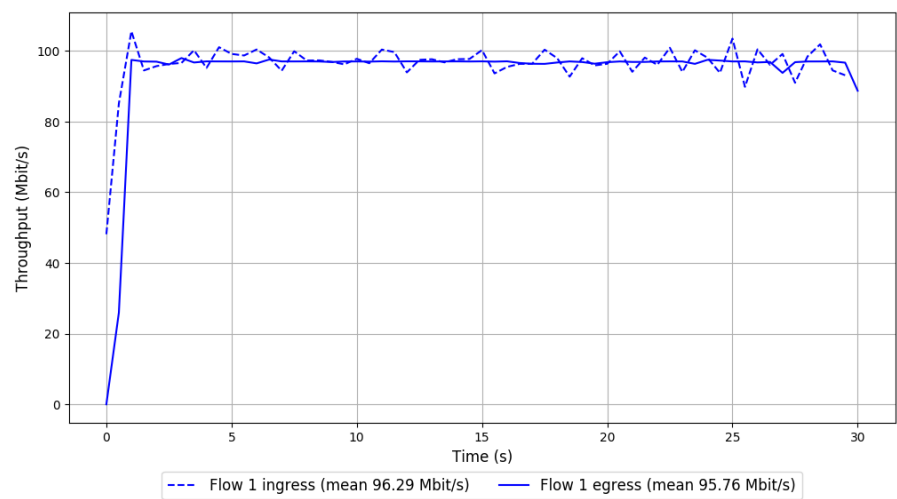
-- Flow 1:

Average throughput: 95.76 Mbit/s

95th percentile per-packet one-way delay: 69.449 ms

Loss rate: 0.76%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-10-03 09:45:06

End at: 2019-10-03 09:45:36

Local clock offset: 0.098 ms

Remote clock offset: 7.587 ms

Below is generated by plot.py at 2019-10-03 10:35:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.65 Mbit/s

95th percentile per-packet one-way delay: 61.909 ms

Loss rate: 0.41%

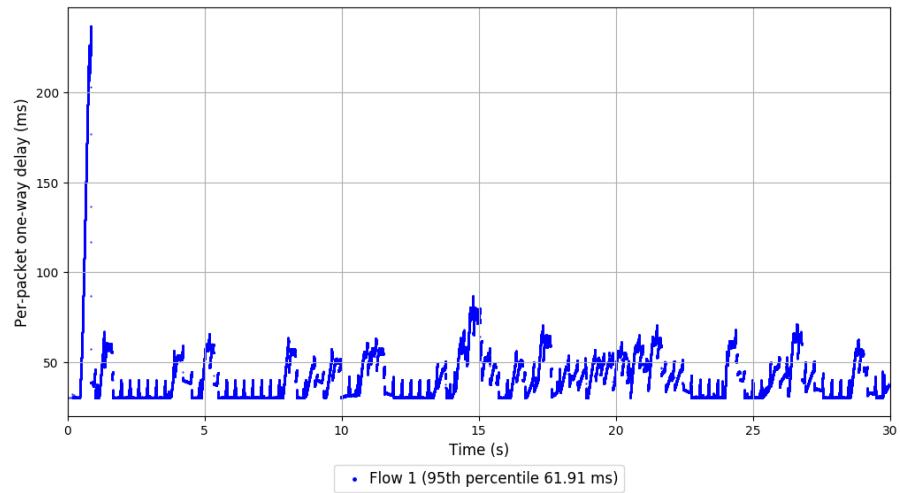
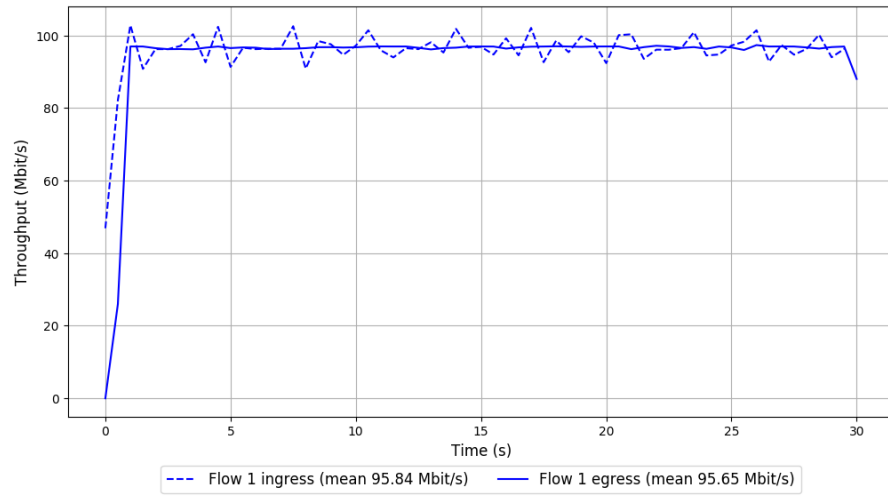
-- Flow 1:

Average throughput: 95.65 Mbit/s

95th percentile per-packet one-way delay: 61.909 ms

Loss rate: 0.41%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-10-03 10:23:21

End at: 2019-10-03 10:23:51

Local clock offset: 0.295 ms

Remote clock offset: 7.51 ms

Below is generated by plot.py at 2019-10-03 10:35:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.61 Mbit/s

95th percentile per-packet one-way delay: 52.472 ms

Loss rate: 0.28%

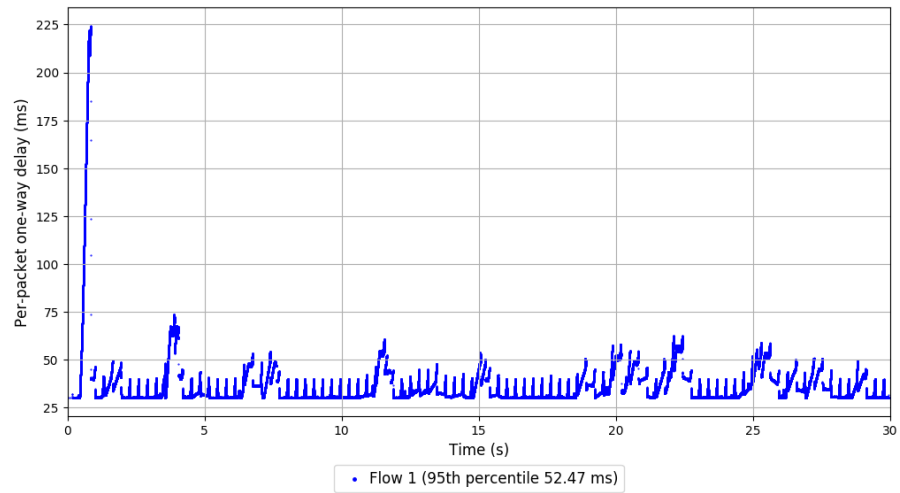
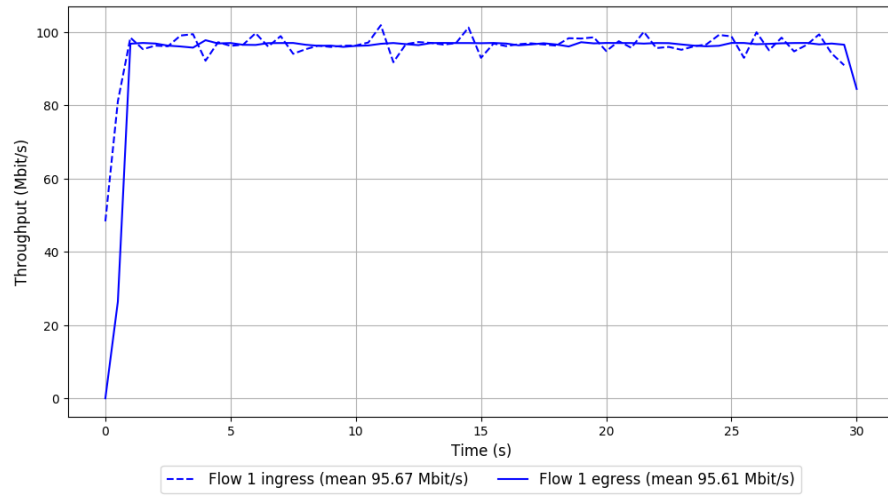
-- Flow 1:

Average throughput: 95.61 Mbit/s

95th percentile per-packet one-way delay: 52.472 ms

Loss rate: 0.28%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-10-03 06:55:57

End at: 2019-10-03 06:56:27

Local clock offset: 0.126 ms

Remote clock offset: 7.726 ms

Below is generated by plot.py at 2019-10-03 10:35:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.72 Mbit/s

95th percentile per-packet one-way delay: 56.816 ms

Loss rate: 0.30%

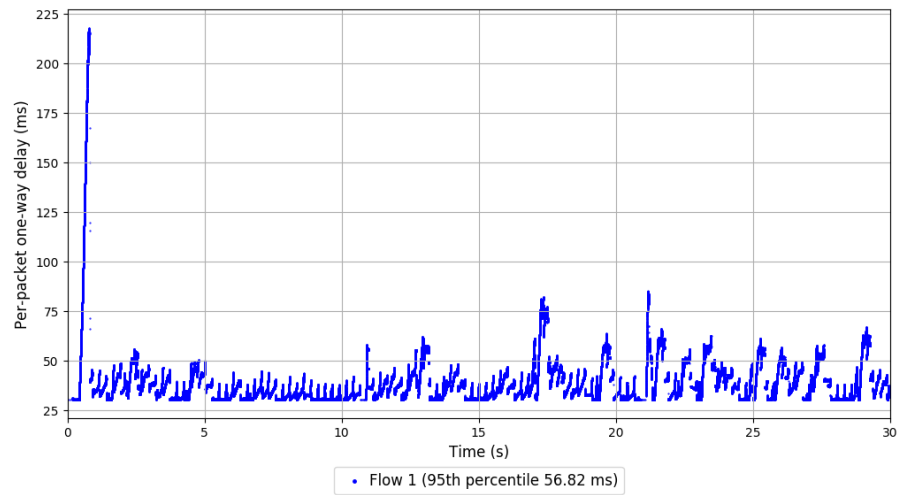
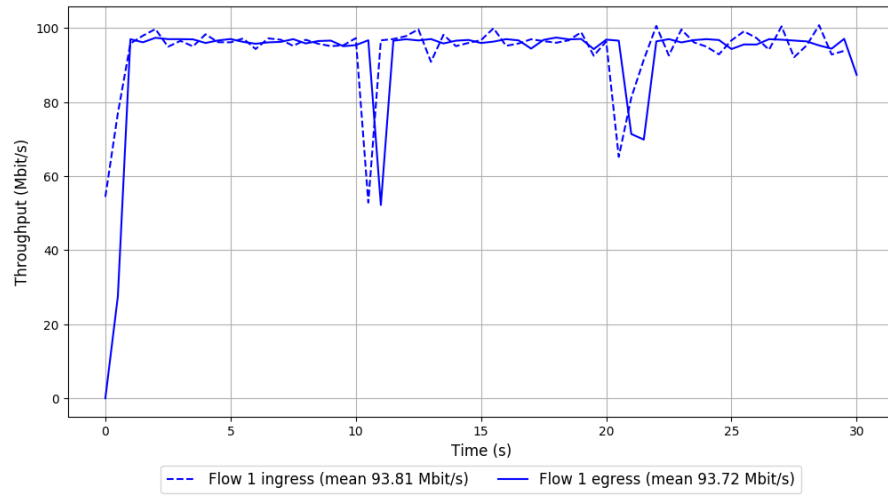
-- Flow 1:

Average throughput: 93.72 Mbit/s

95th percentile per-packet one-way delay: 56.816 ms

Loss rate: 0.30%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-10-03 07:45:30

End at: 2019-10-03 07:46:00

Local clock offset: 0.271 ms

Remote clock offset: 7.548 ms

Below is generated by plot.py at 2019-10-03 10:36:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.97 Mbit/s

95th percentile per-packet one-way delay: 52.130 ms

Loss rate: 0.29%

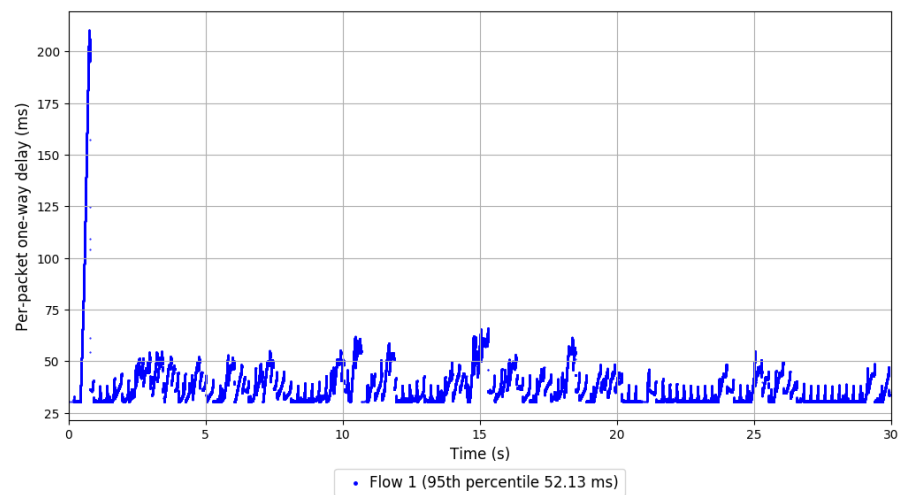
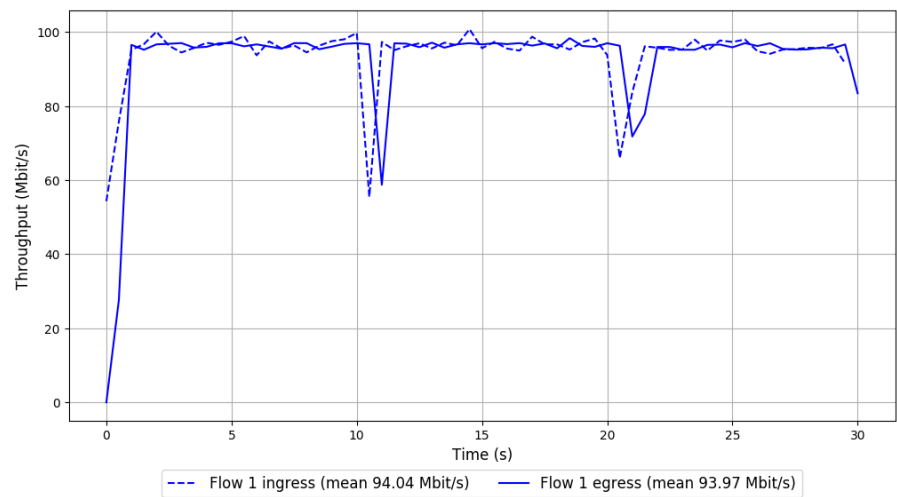
-- Flow 1:

Average throughput: 93.97 Mbit/s

95th percentile per-packet one-way delay: 52.130 ms

Loss rate: 0.29%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-10-03 08:33:35

End at: 2019-10-03 08:34:05

Local clock offset: 0.213 ms

Remote clock offset: 7.417 ms

Below is generated by plot.py at 2019-10-03 10:36:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.68 Mbit/s

95th percentile per-packet one-way delay: 56.707 ms

Loss rate: 0.25%

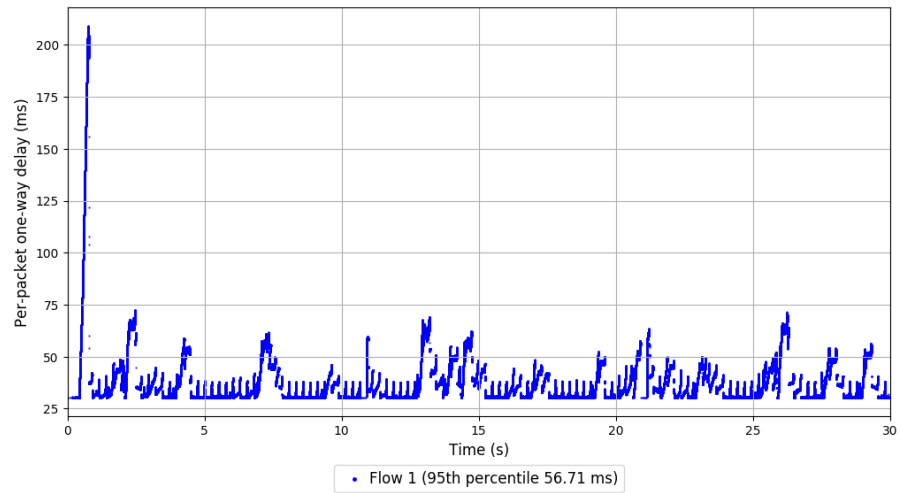
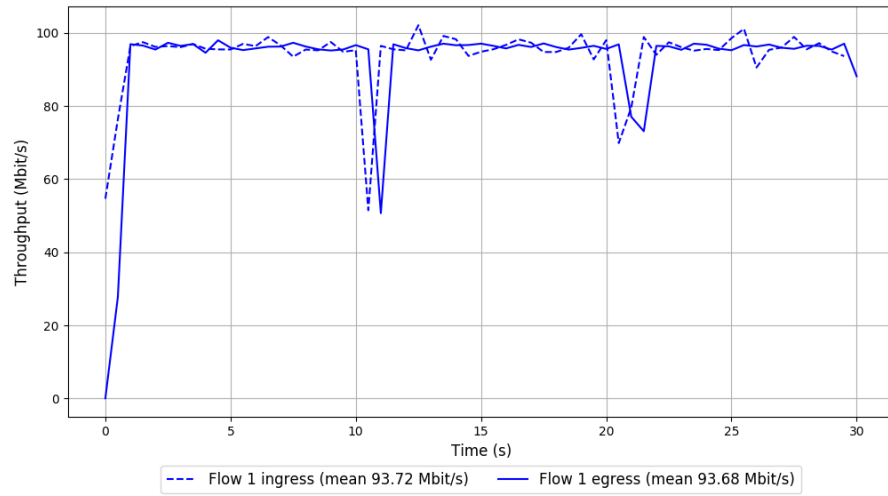
-- Flow 1:

Average throughput: 93.68 Mbit/s

95th percentile per-packet one-way delay: 56.707 ms

Loss rate: 0.25%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-10-03 09:12:28

End at: 2019-10-03 09:12:58

Local clock offset: 0.122 ms

Remote clock offset: 7.186 ms

Below is generated by plot.py at 2019-10-03 10:36:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.80 Mbit/s

95th percentile per-packet one-way delay: 54.790 ms

Loss rate: 0.29%

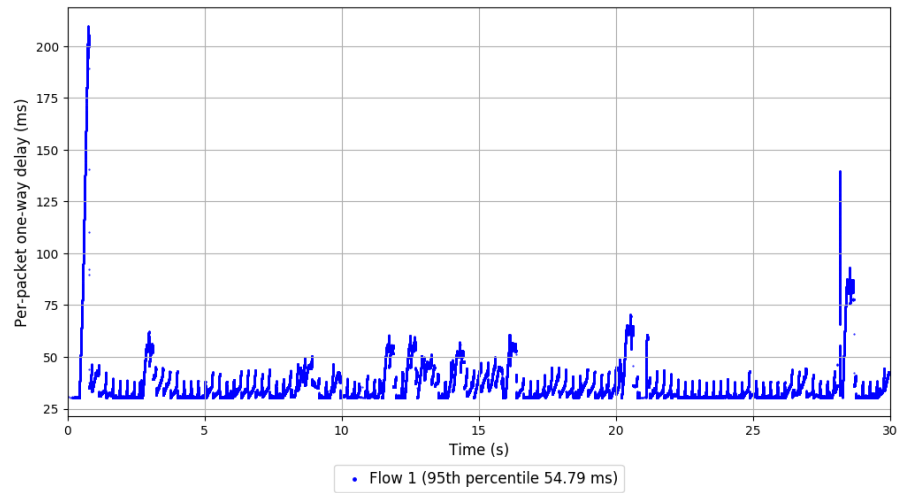
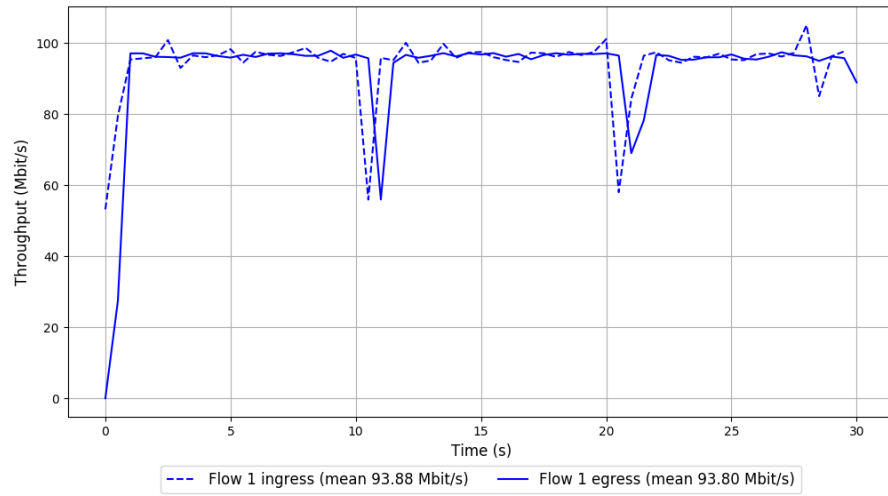
-- Flow 1:

Average throughput: 93.80 Mbit/s

95th percentile per-packet one-way delay: 54.790 ms

Loss rate: 0.29%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-10-03 09:52:12

End at: 2019-10-03 09:52:42

Local clock offset: 0.061 ms

Remote clock offset: 7.782 ms

Below is generated by plot.py at 2019-10-03 10:36:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.30 Mbit/s

95th percentile per-packet one-way delay: 58.959 ms

Loss rate: 0.36%

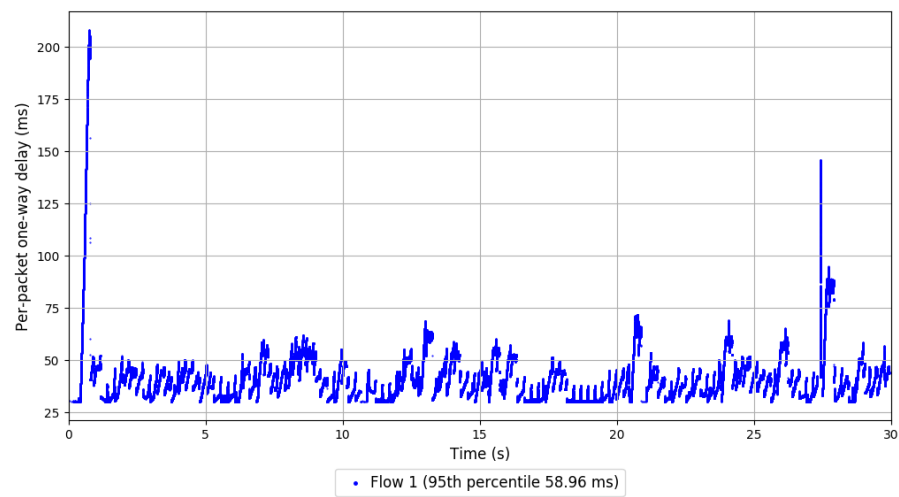
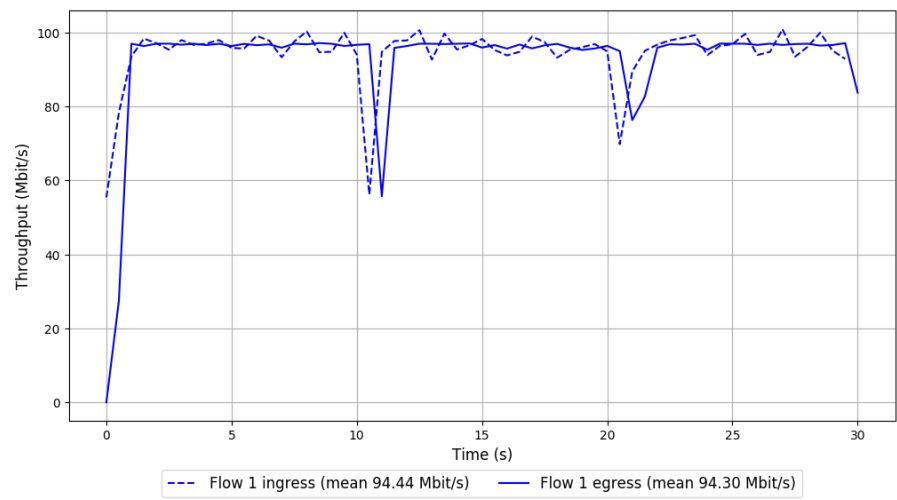
-- Flow 1:

Average throughput: 94.30 Mbit/s

95th percentile per-packet one-way delay: 58.959 ms

Loss rate: 0.36%

Run 5: Report of FillP-Sheep — Data Link

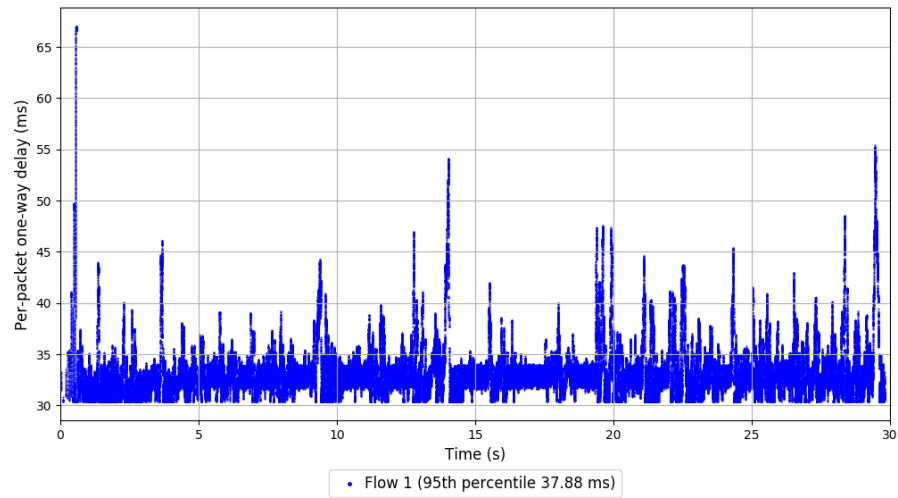
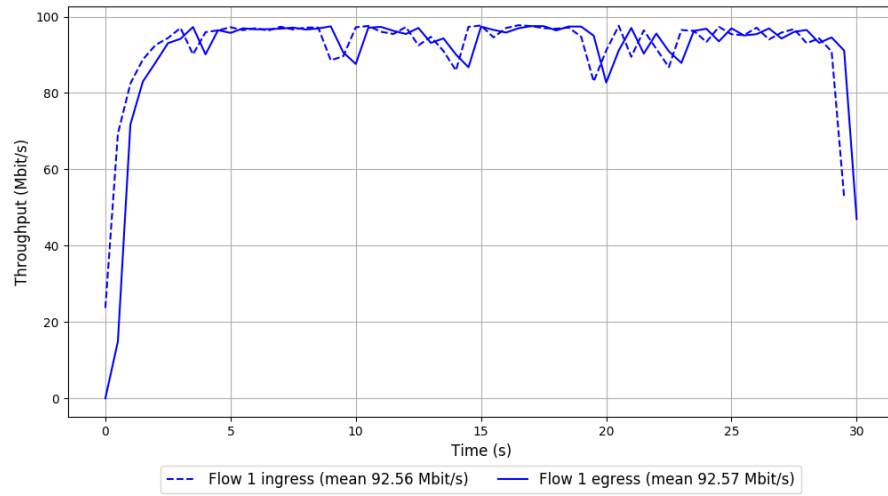


```
Run 1: Statistics of Indigo

Start at: 2019-10-03 07:00:26
End at: 2019-10-03 07:00:56
Local clock offset: 0.217 ms
Remote clock offset: 7.653 ms

# Below is generated by plot.py at 2019-10-03 10:36:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.57 Mbit/s
95th percentile per-packet one-way delay: 37.884 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 92.57 Mbit/s
95th percentile per-packet one-way delay: 37.884 ms
Loss rate: 0.21%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-10-03 07:50:01

End at: 2019-10-03 07:50:31

Local clock offset: 0.244 ms

Remote clock offset: 7.636 ms

Below is generated by plot.py at 2019-10-03 10:36:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.82 Mbit/s

95th percentile per-packet one-way delay: 37.922 ms

Loss rate: 0.23%

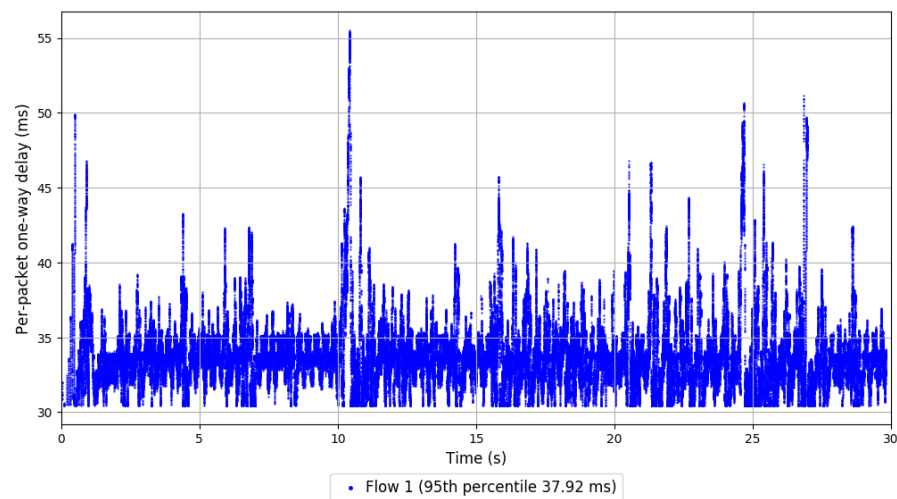
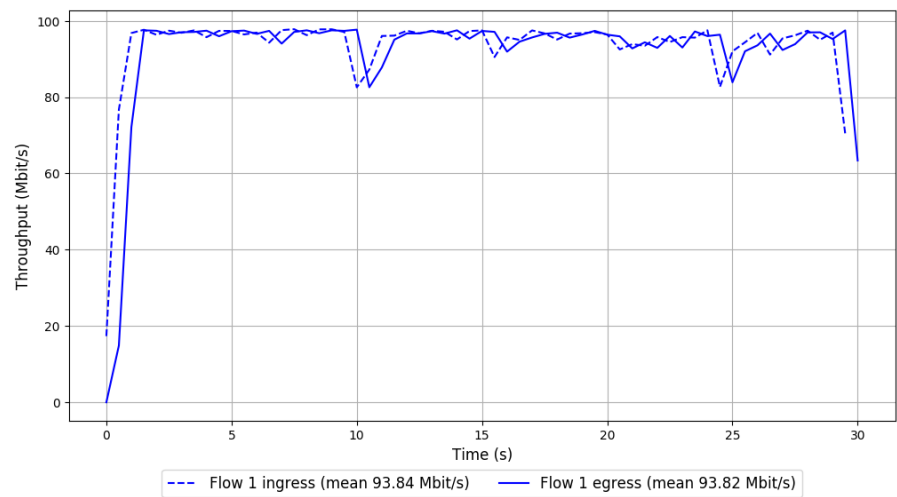
-- Flow 1:

Average throughput: 93.82 Mbit/s

95th percentile per-packet one-way delay: 37.922 ms

Loss rate: 0.23%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-10-03 08:37:21

End at: 2019-10-03 08:37:51

Local clock offset: 0.195 ms

Remote clock offset: 7.281 ms

Below is generated by plot.py at 2019-10-03 10:37:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.09 Mbit/s

95th percentile per-packet one-way delay: 36.856 ms

Loss rate: 0.23%

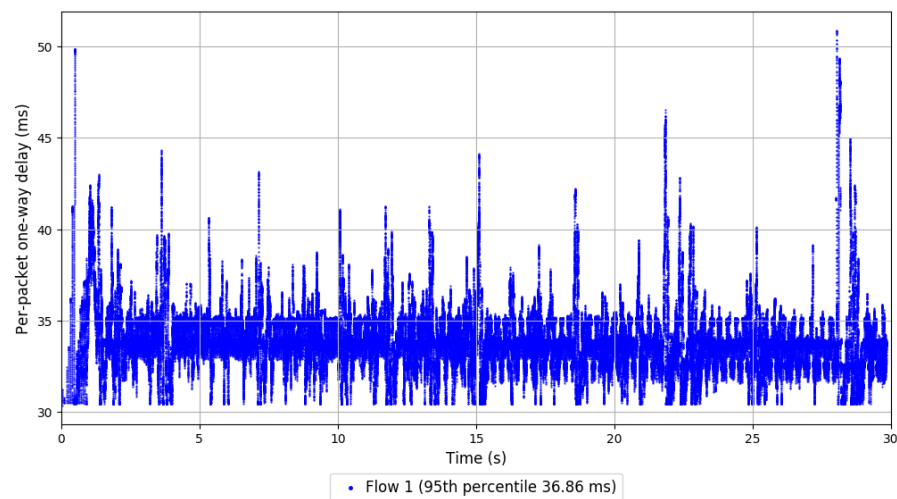
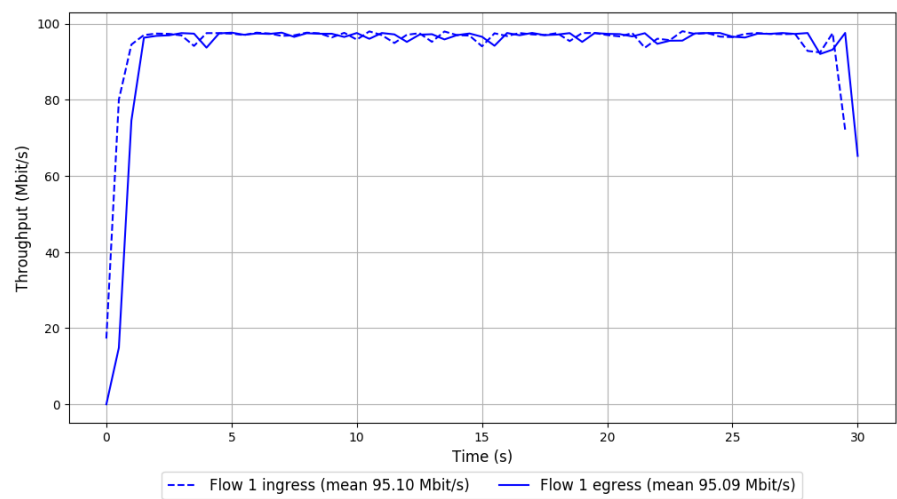
-- Flow 1:

Average throughput: 95.09 Mbit/s

95th percentile per-packet one-way delay: 36.856 ms

Loss rate: 0.23%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-10-03 09:15:27

End at: 2019-10-03 09:15:57

Local clock offset: 0.123 ms

Remote clock offset: 7.174 ms

Below is generated by plot.py at 2019-10-03 10:37:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.26 Mbit/s

95th percentile per-packet one-way delay: 36.874 ms

Loss rate: 0.23%

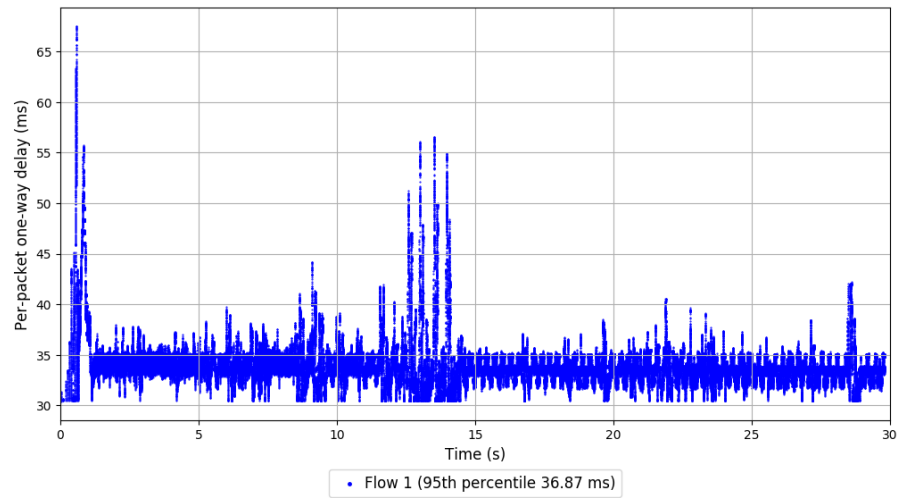
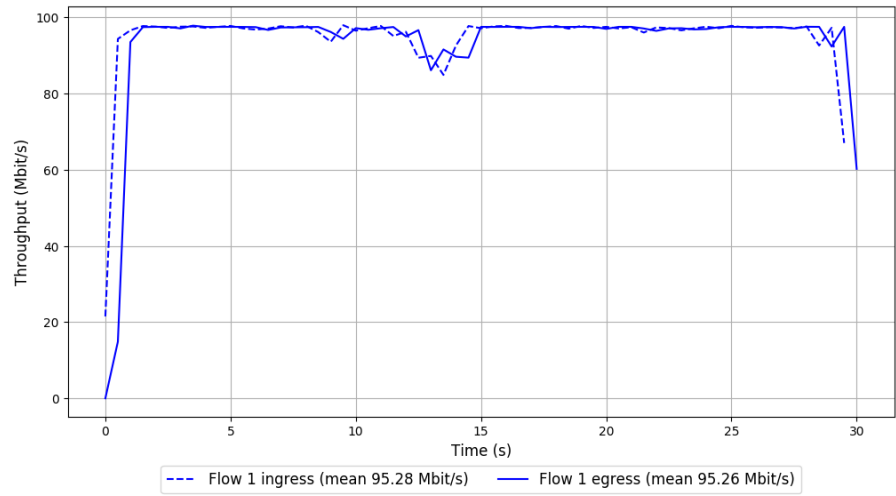
-- Flow 1:

Average throughput: 95.26 Mbit/s

95th percentile per-packet one-way delay: 36.874 ms

Loss rate: 0.23%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-10-03 09:55:44

End at: 2019-10-03 09:56:14

Local clock offset: 0.11 ms

Remote clock offset: 7.88 ms

Below is generated by plot.py at 2019-10-03 10:37:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.15 Mbit/s

95th percentile per-packet one-way delay: 35.883 ms

Loss rate: 0.23%

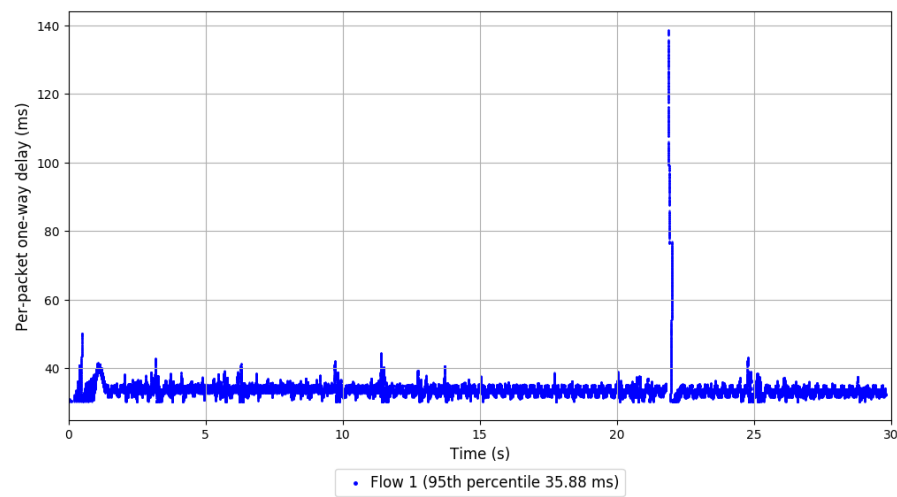
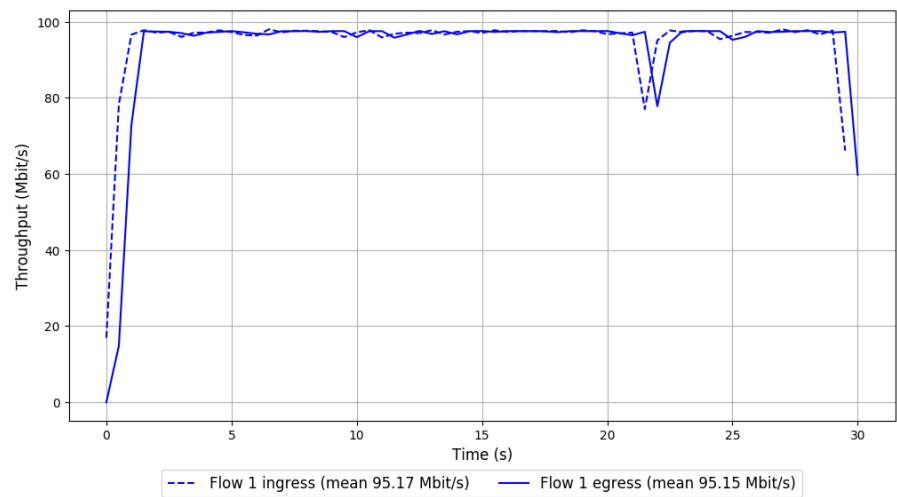
-- Flow 1:

Average throughput: 95.15 Mbit/s

95th percentile per-packet one-way delay: 35.883 ms

Loss rate: 0.23%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-10-03 07:40:58

End at: 2019-10-03 07:41:28

Local clock offset: 0.253 ms

Remote clock offset: 7.557 ms

Below is generated by plot.py at 2019-10-03 10:37:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.98 Mbit/s

95th percentile per-packet one-way delay: 38.118 ms

Loss rate: 0.25%

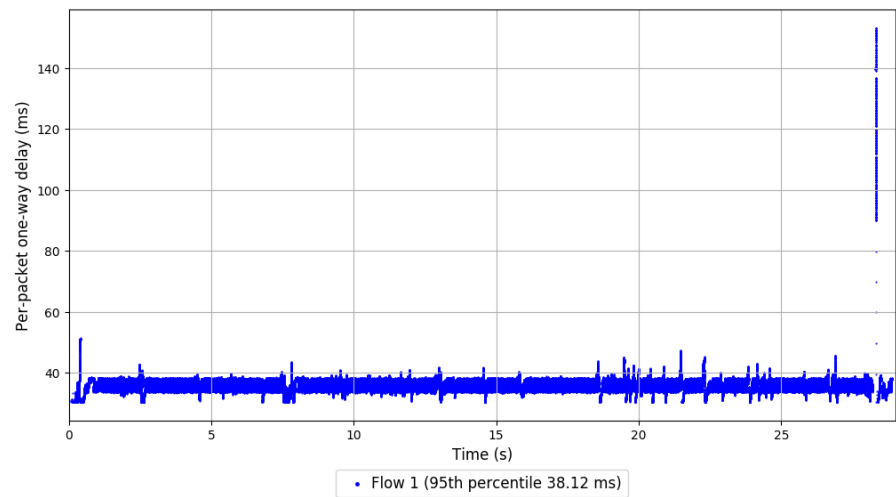
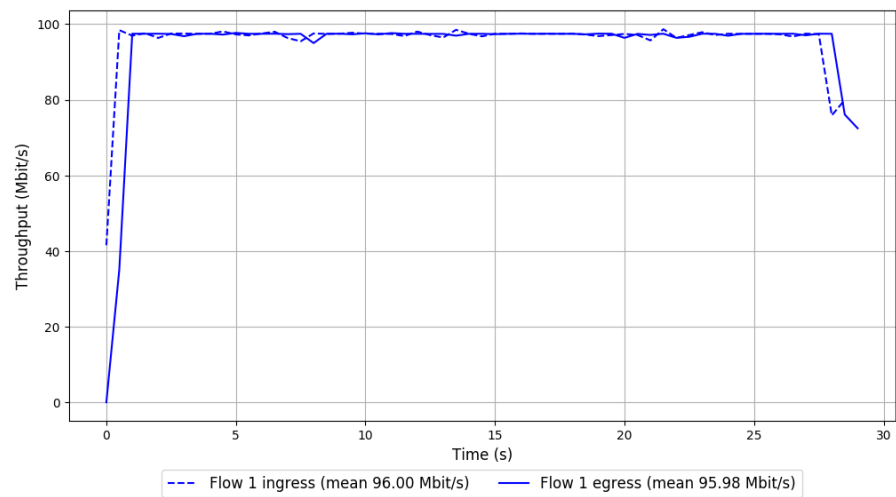
-- Flow 1:

Average throughput: 95.98 Mbit/s

95th percentile per-packet one-way delay: 38.118 ms

Loss rate: 0.25%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-10-03 08:29:35

End at: 2019-10-03 08:30:05

Local clock offset: 0.128 ms

Remote clock offset: 7.773 ms

Below is generated by plot.py at 2019-10-03 10:37:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.39 Mbit/s

95th percentile per-packet one-way delay: 38.378 ms

Loss rate: 0.24%

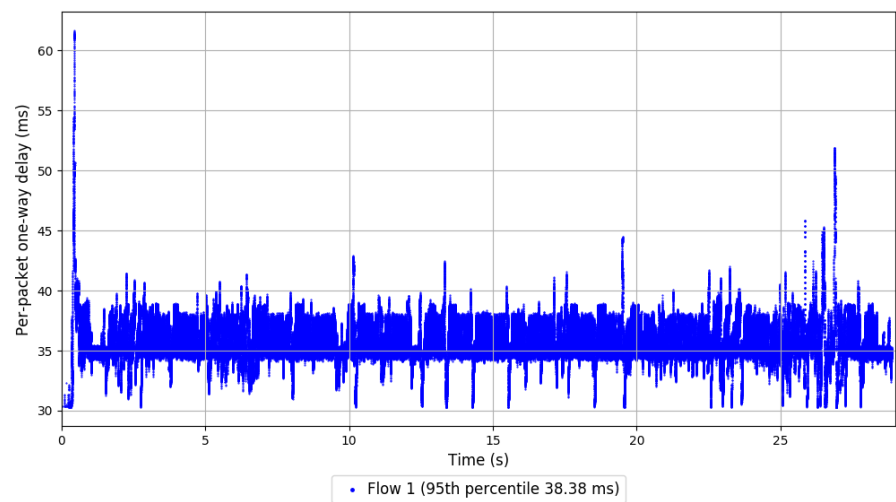
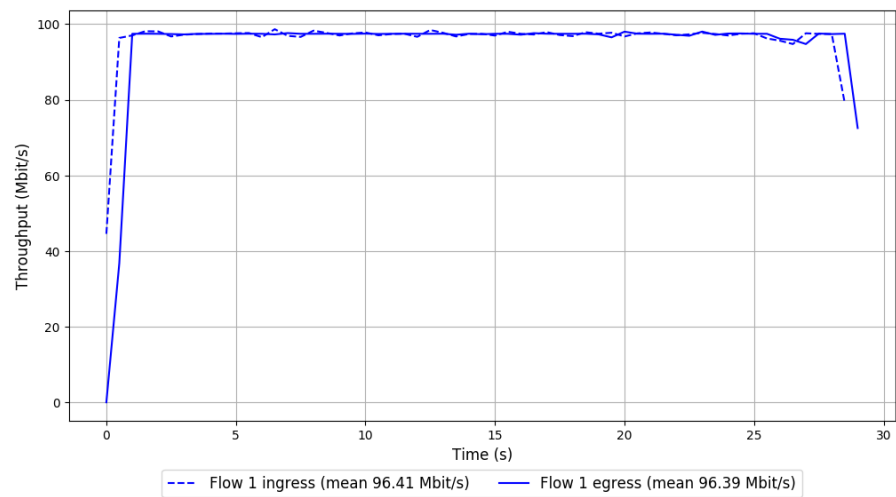
-- Flow 1:

Average throughput: 96.39 Mbit/s

95th percentile per-packet one-way delay: 38.378 ms

Loss rate: 0.24%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-10-03 09:08:07

End at: 2019-10-03 09:08:37

Local clock offset: 0.166 ms

Remote clock offset: 7.158 ms

Below is generated by plot.py at 2019-10-03 10:37:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.14 Mbit/s

95th percentile per-packet one-way delay: 38.122 ms

Loss rate: 0.24%

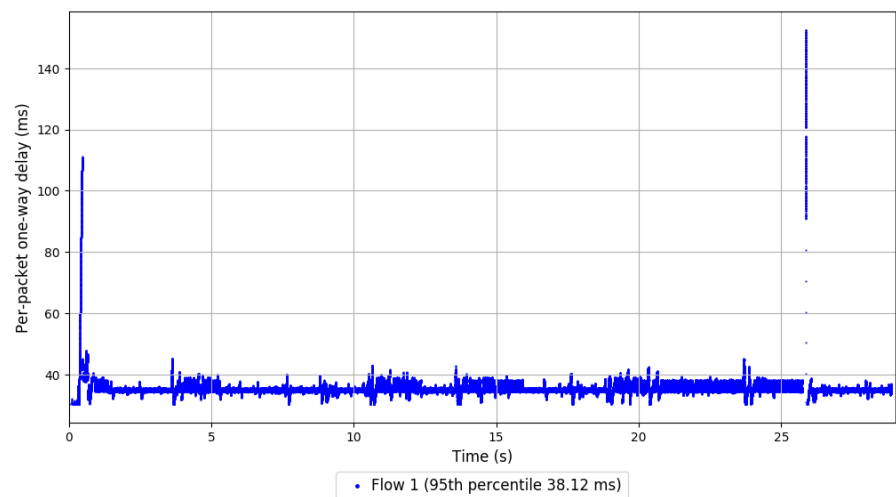
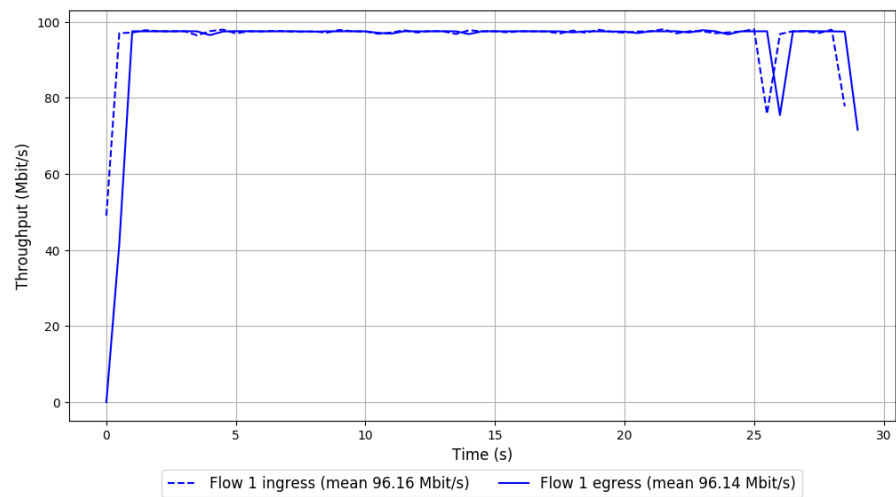
-- Flow 1:

Average throughput: 96.14 Mbit/s

95th percentile per-packet one-way delay: 38.122 ms

Loss rate: 0.24%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-10-03 09:47:37

End at: 2019-10-03 09:48:07

Local clock offset: 0.077 ms

Remote clock offset: 7.652 ms

Below is generated by plot.py at 2019-10-03 10:37:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.45 Mbit/s

95th percentile per-packet one-way delay: 38.555 ms

Loss rate: 0.24%

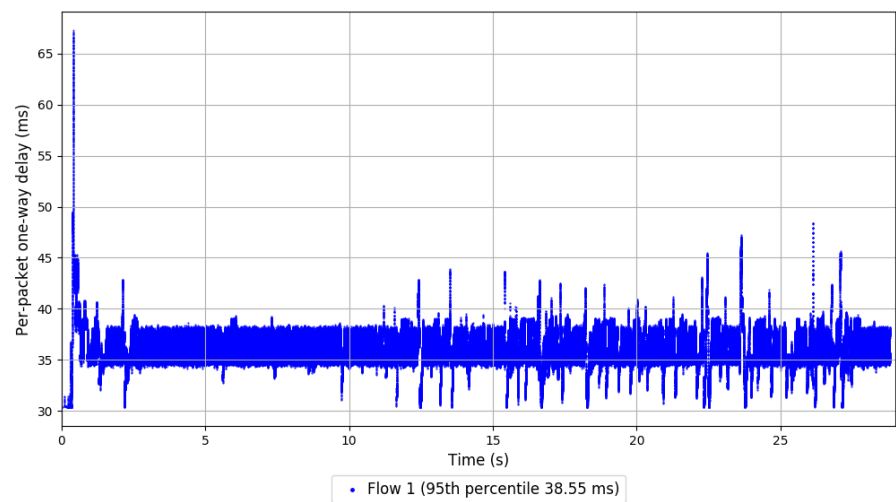
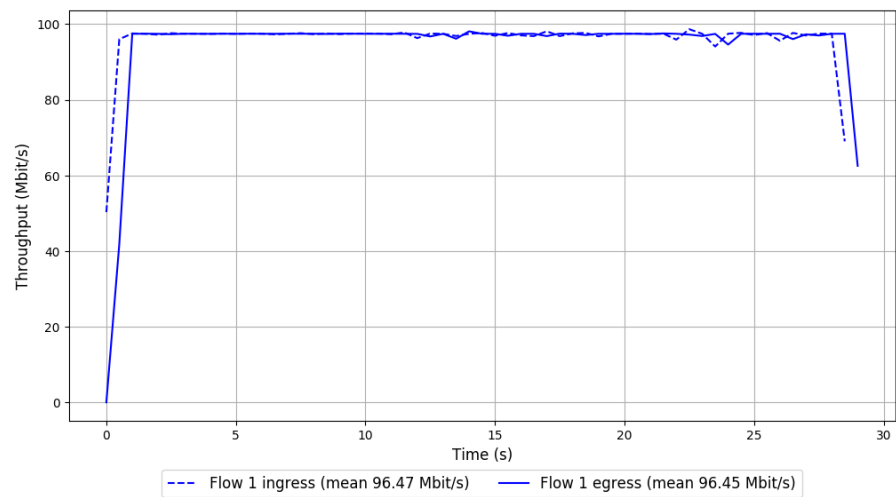
-- Flow 1:

Average throughput: 96.45 Mbit/s

95th percentile per-packet one-way delay: 38.555 ms

Loss rate: 0.24%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-10-03 10:26:05

End at: 2019-10-03 10:26:35

Local clock offset: 0.31 ms

Remote clock offset: 7.408 ms

Below is generated by plot.py at 2019-10-03 10:37:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.56 Mbit/s

95th percentile per-packet one-way delay: 38.465 ms

Loss rate: 0.24%

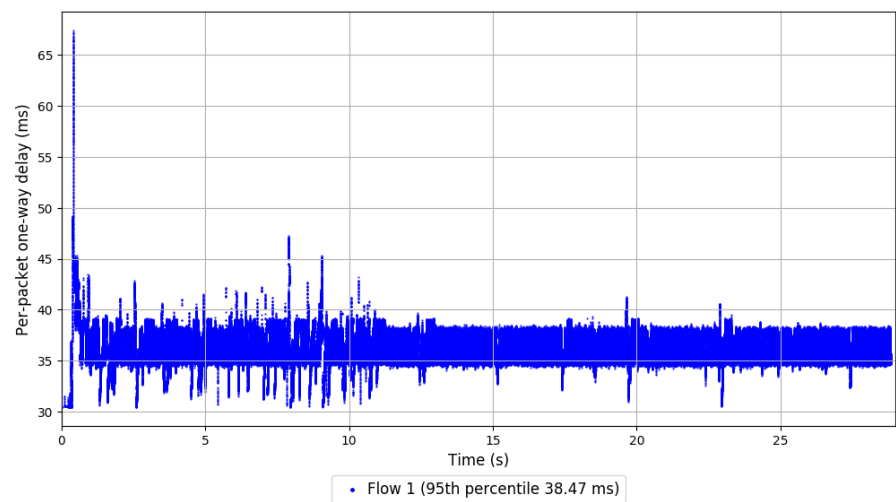
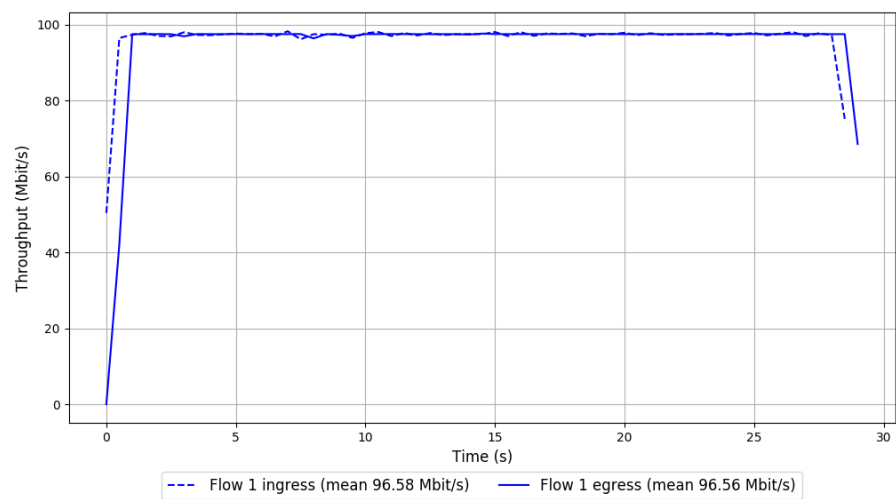
-- Flow 1:

Average throughput: 96.56 Mbit/s

95th percentile per-packet one-way delay: 38.465 ms

Loss rate: 0.24%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-10-03 07:13:09

End at: 2019-10-03 07:13:39

Local clock offset: 0.268 ms

Remote clock offset: 7.833 ms

Below is generated by plot.py at 2019-10-03 10:38:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.73 Mbit/s

95th percentile per-packet one-way delay: 35.943 ms

Loss rate: 0.24%

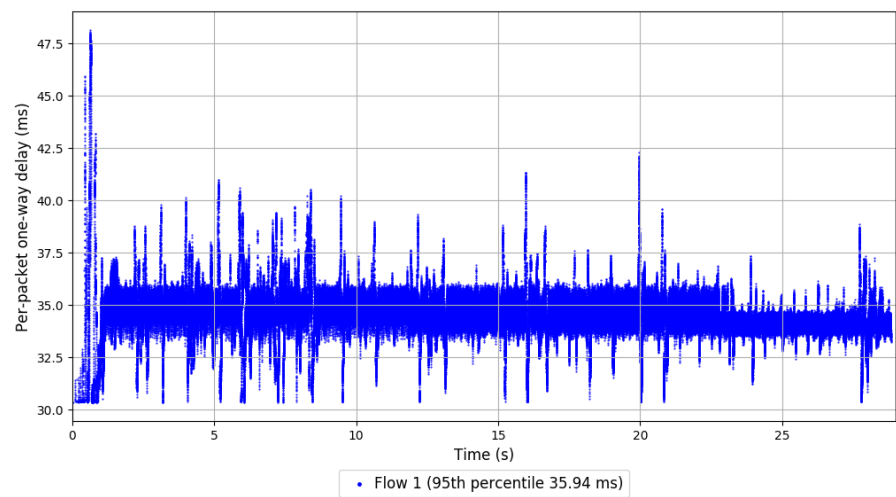
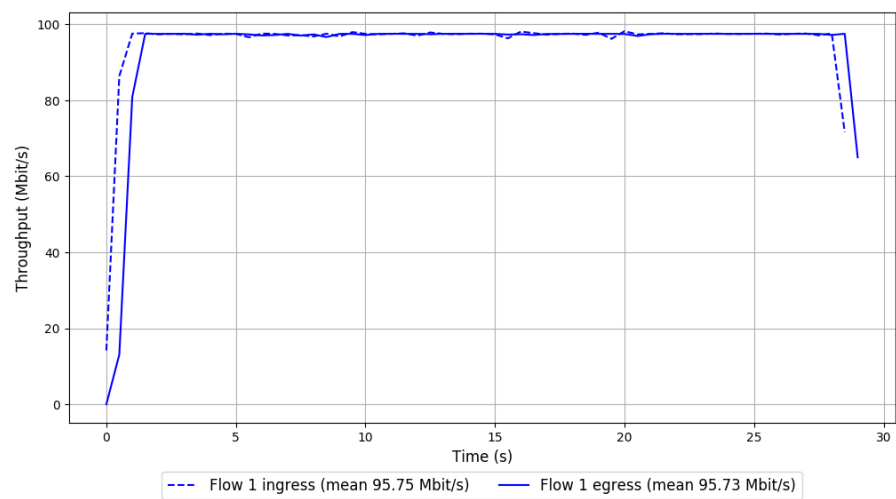
-- Flow 1:

Average throughput: 95.73 Mbit/s

95th percentile per-packet one-way delay: 35.943 ms

Loss rate: 0.24%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-10-03 08:02:23

End at: 2019-10-03 08:02:53

Local clock offset: 0.213 ms

Remote clock offset: 7.772 ms

Below is generated by plot.py at 2019-10-03 10:38:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.78 Mbit/s

95th percentile per-packet one-way delay: 34.584 ms

Loss rate: 0.24%

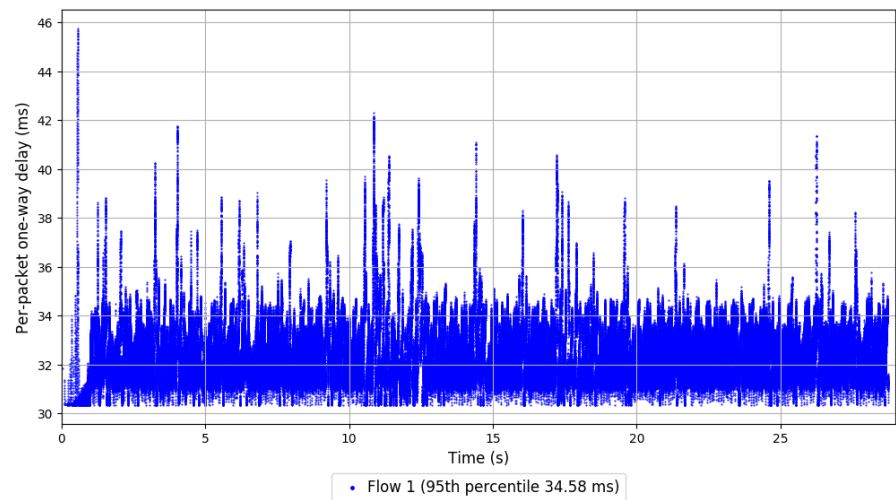
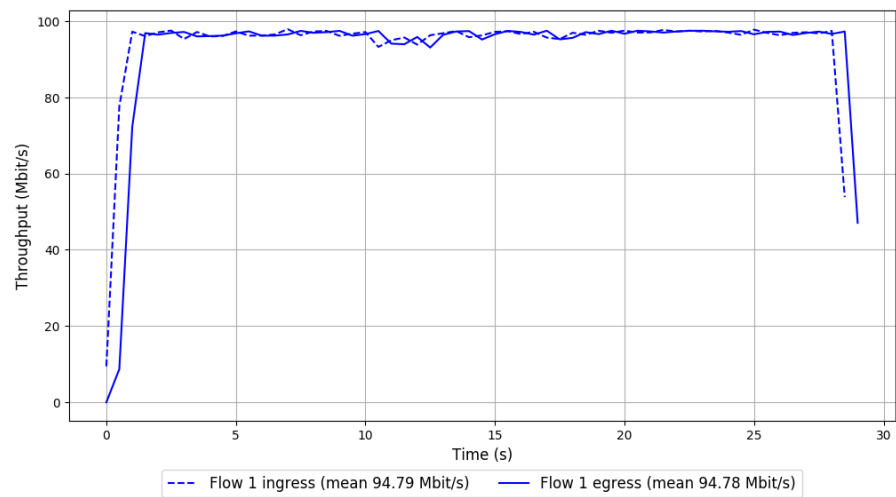
-- Flow 1:

Average throughput: 94.78 Mbit/s

95th percentile per-packet one-way delay: 34.584 ms

Loss rate: 0.24%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-10-03 08:46:47

End at: 2019-10-03 08:47:17

Local clock offset: 0.221 ms

Remote clock offset: 7.202 ms

Below is generated by plot.py at 2019-10-03 10:38:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.64 Mbit/s

95th percentile per-packet one-way delay: 33.741 ms

Loss rate: 0.23%

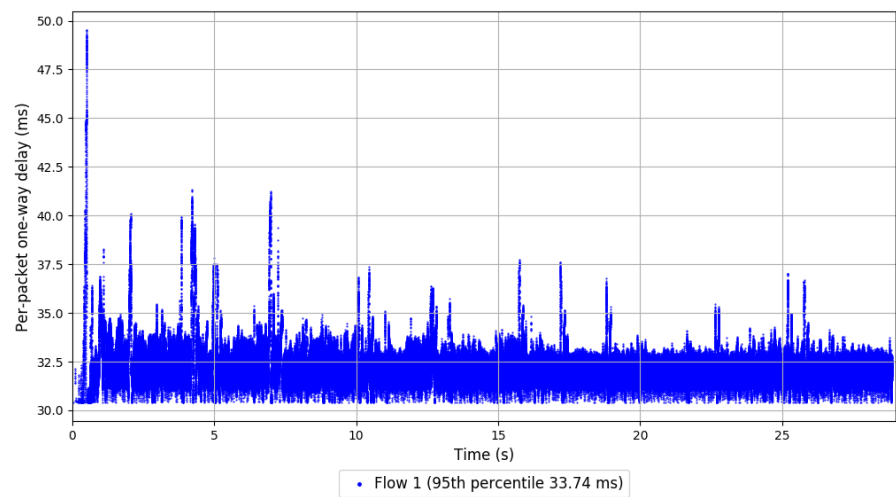
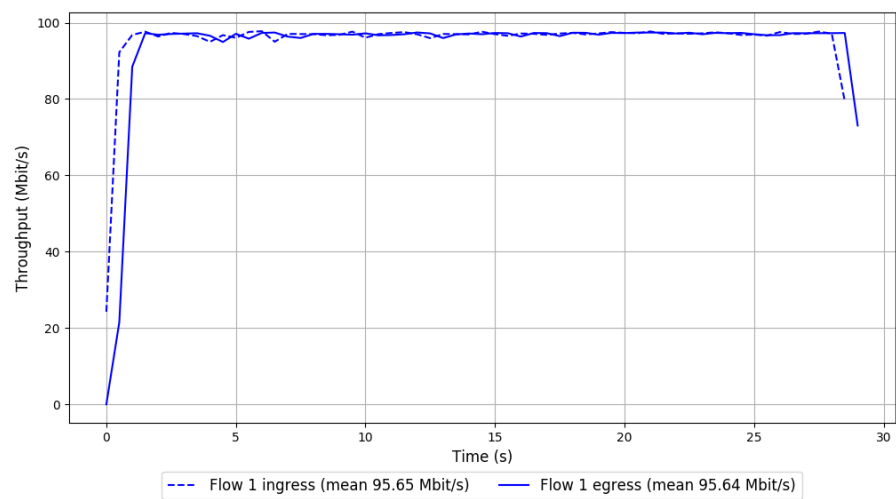
-- Flow 1:

Average throughput: 95.64 Mbit/s

95th percentile per-packet one-way delay: 33.741 ms

Loss rate: 0.23%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-10-03 09:24:56

End at: 2019-10-03 09:25:26

Local clock offset: 0.088 ms

Remote clock offset: 7.392 ms

Below is generated by plot.py at 2019-10-03 10:38:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.65 Mbit/s

95th percentile per-packet one-way delay: 35.746 ms

Loss rate: 0.24%

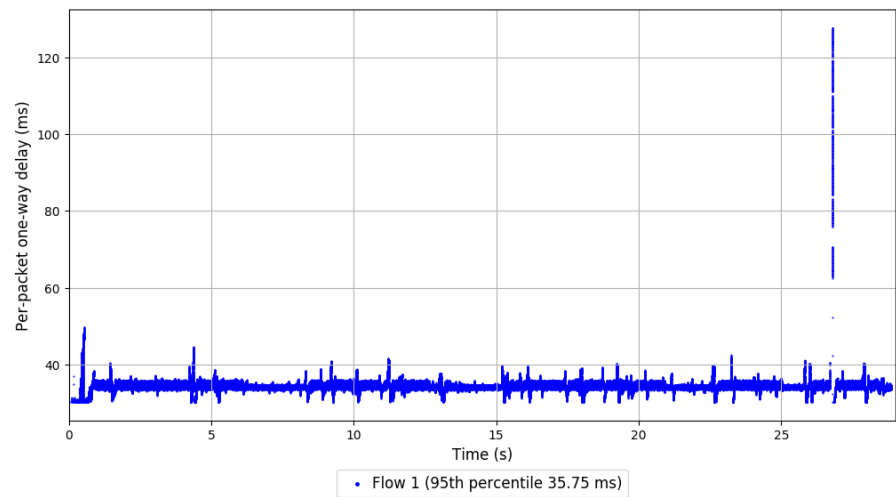
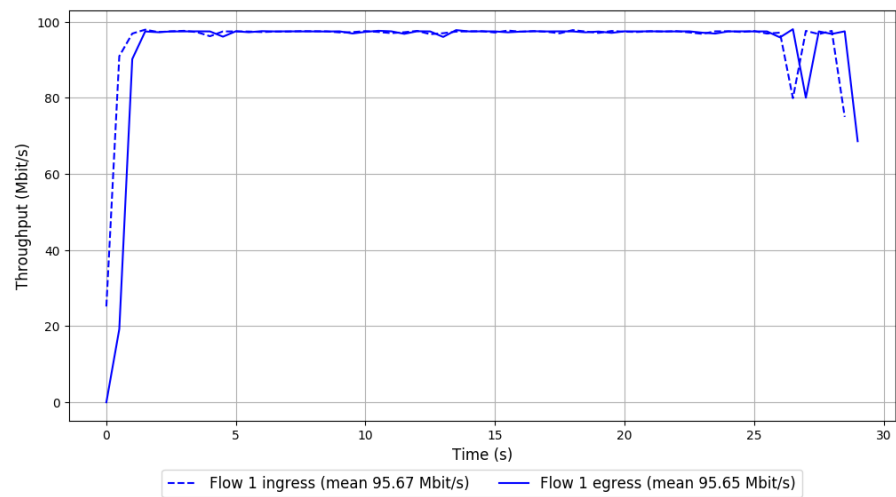
-- Flow 1:

Average throughput: 95.65 Mbit/s

95th percentile per-packet one-way delay: 35.746 ms

Loss rate: 0.24%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-10-03 10:04:24

End at: 2019-10-03 10:04:54

Local clock offset: 0.208 ms

Remote clock offset: 7.895 ms

Below is generated by plot.py at 2019-10-03 10:38:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.84 Mbit/s

95th percentile per-packet one-way delay: 35.883 ms

Loss rate: 0.24%

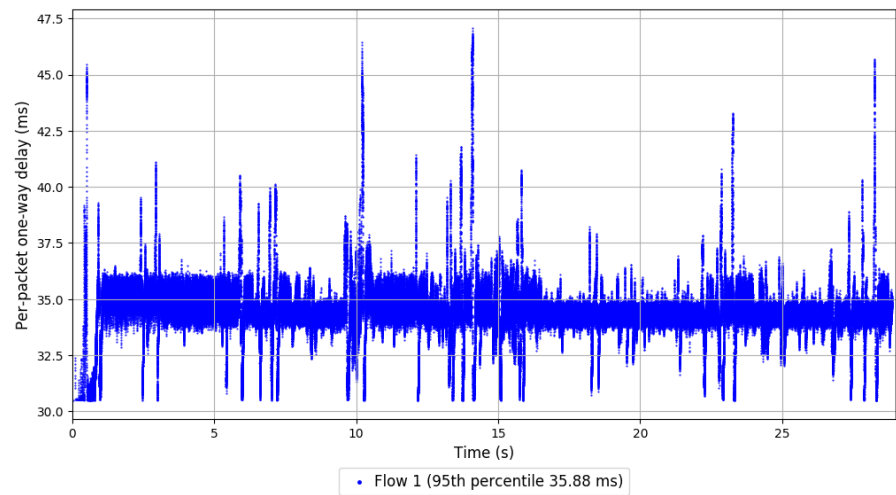
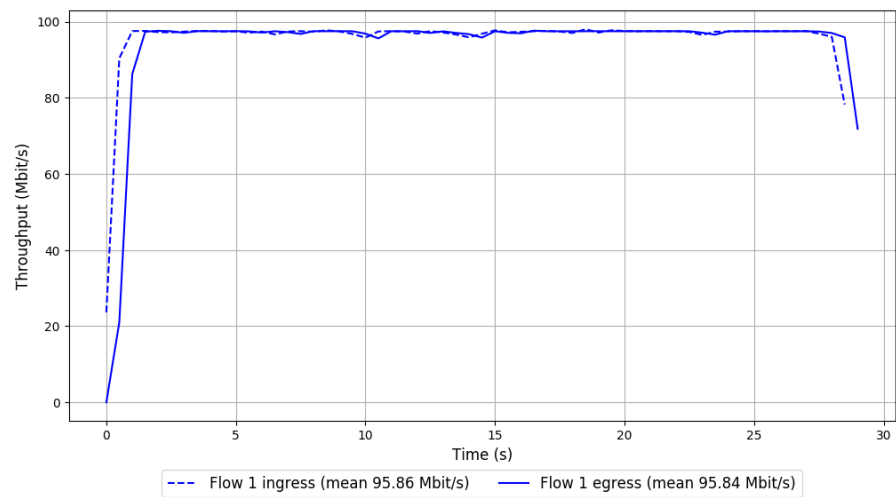
-- Flow 1:

Average throughput: 95.84 Mbit/s

95th percentile per-packet one-way delay: 35.883 ms

Loss rate: 0.24%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-10-03 07:02:44

End at: 2019-10-03 07:03:14

Local clock offset: 0.19 ms

Remote clock offset: 7.565 ms

Below is generated by plot.py at 2019-10-03 10:38:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.50 Mbit/s

95th percentile per-packet one-way delay: 36.660 ms

Loss rate: 0.24%

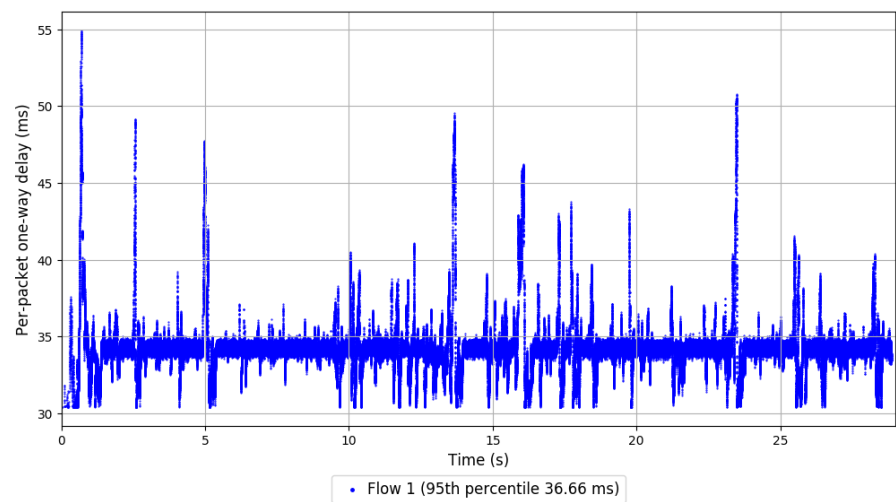
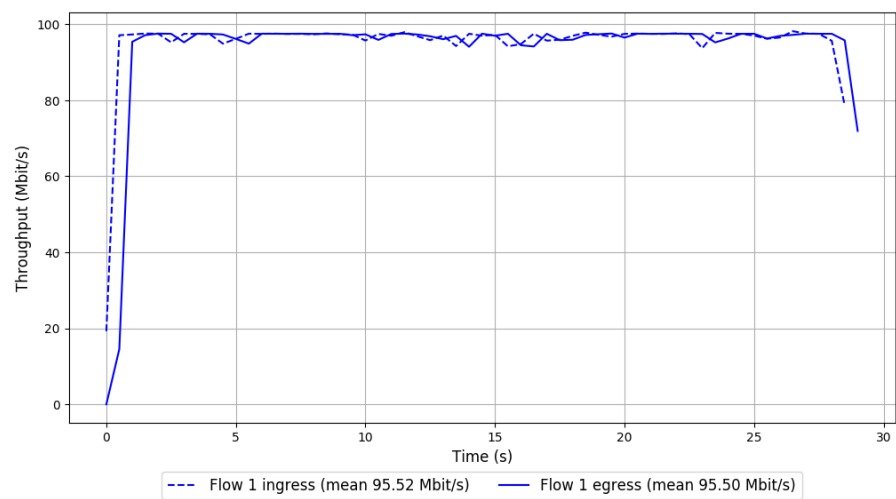
-- Flow 1:

Average throughput: 95.50 Mbit/s

95th percentile per-packet one-way delay: 36.660 ms

Loss rate: 0.24%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-10-03 07:53:12

End at: 2019-10-03 07:53:42

Local clock offset: 0.298 ms

Remote clock offset: 7.743 ms

Below is generated by plot.py at 2019-10-03 10:38:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.59 Mbit/s

95th percentile per-packet one-way delay: 35.866 ms

Loss rate: 0.23%

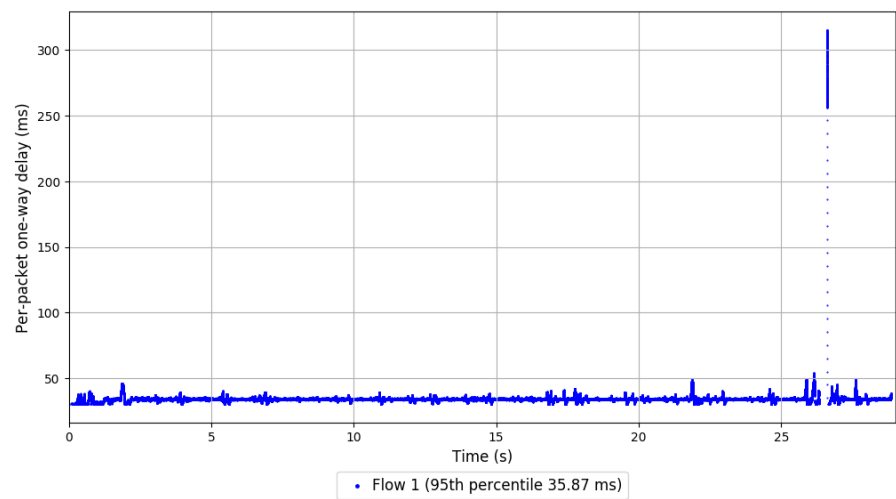
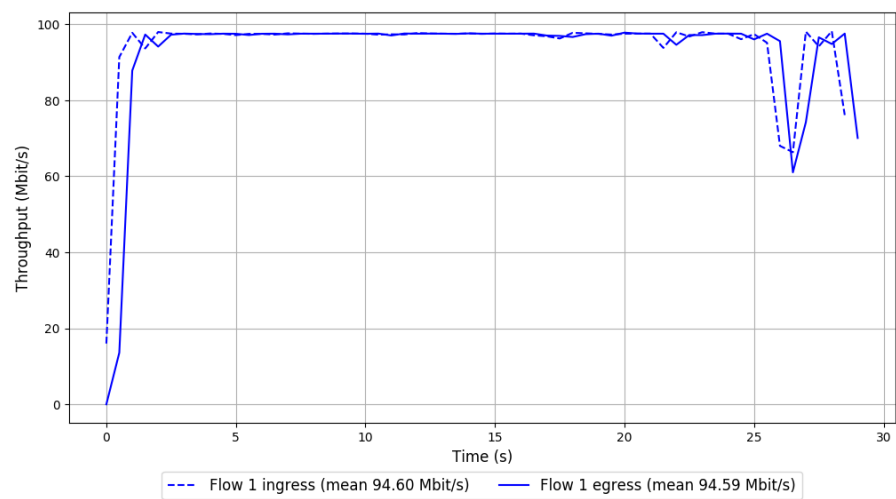
-- Flow 1:

Average throughput: 94.59 Mbit/s

95th percentile per-packet one-way delay: 35.866 ms

Loss rate: 0.23%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-10-03 08:39:13

End at: 2019-10-03 08:39:43

Local clock offset: 0.218 ms

Remote clock offset: 7.421 ms

Below is generated by plot.py at 2019-10-03 10:38:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.91 Mbit/s

95th percentile per-packet one-way delay: 34.904 ms

Loss rate: 0.24%

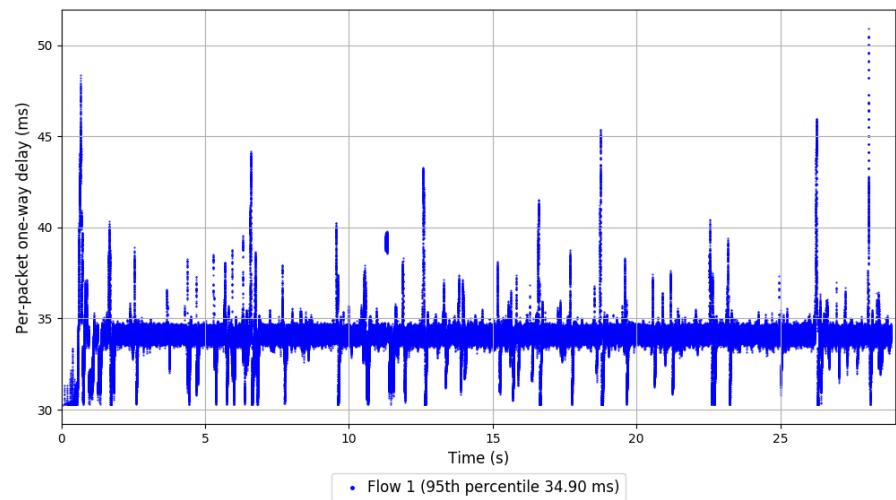
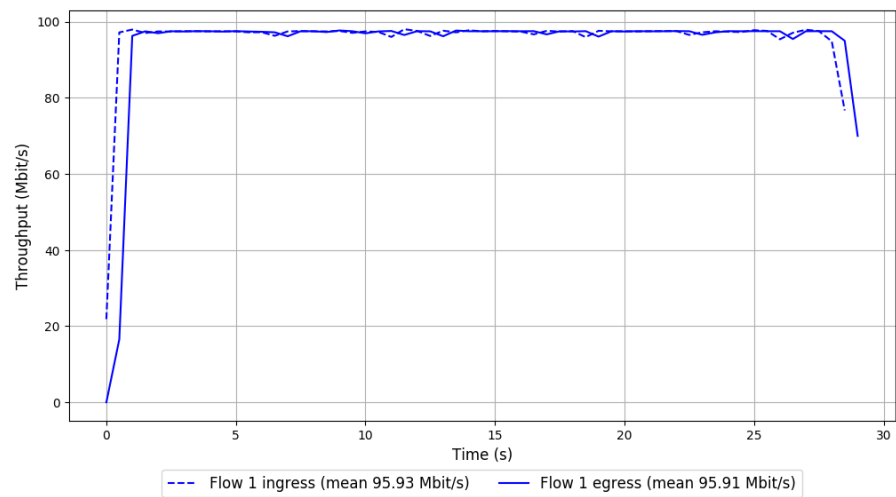
-- Flow 1:

Average throughput: 95.91 Mbit/s

95th percentile per-packet one-way delay: 34.904 ms

Loss rate: 0.24%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-10-03 09:17:13

End at: 2019-10-03 09:17:43

Local clock offset: 0.134 ms

Remote clock offset: 7.299 ms

Below is generated by plot.py at 2019-10-03 10:39:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.78 Mbit/s

95th percentile per-packet one-way delay: 36.219 ms

Loss rate: 0.24%

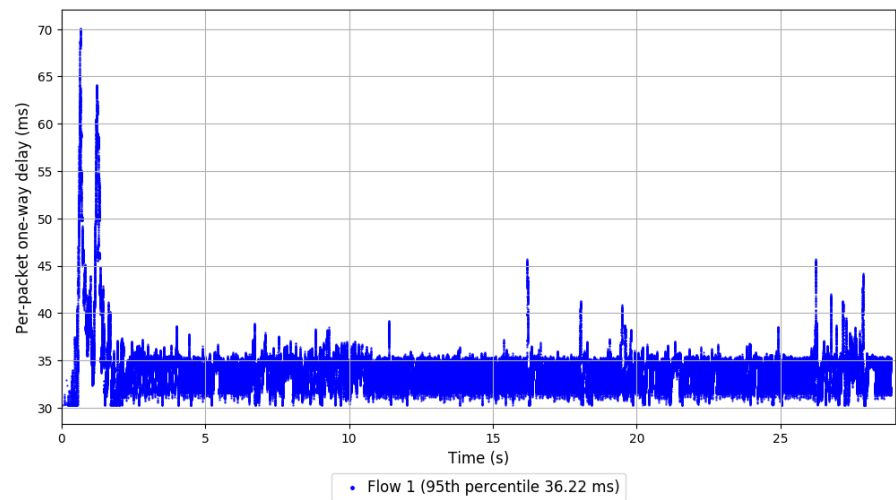
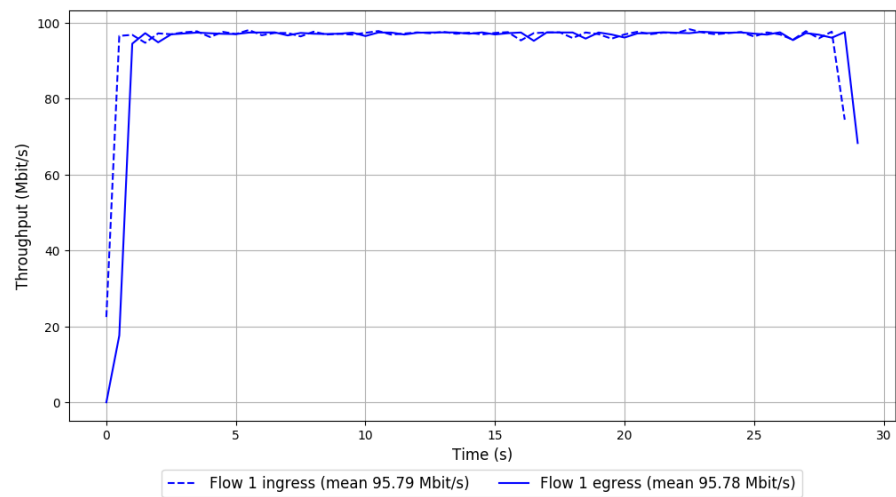
-- Flow 1:

Average throughput: 95.78 Mbit/s

95th percentile per-packet one-way delay: 36.219 ms

Loss rate: 0.24%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-10-03 09:57:04

End at: 2019-10-03 09:57:34

Local clock offset: 0.103 ms

Remote clock offset: 7.767 ms

Below is generated by plot.py at 2019-10-03 10:39:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.69 Mbit/s

95th percentile per-packet one-way delay: 32.862 ms

Loss rate: 0.22%

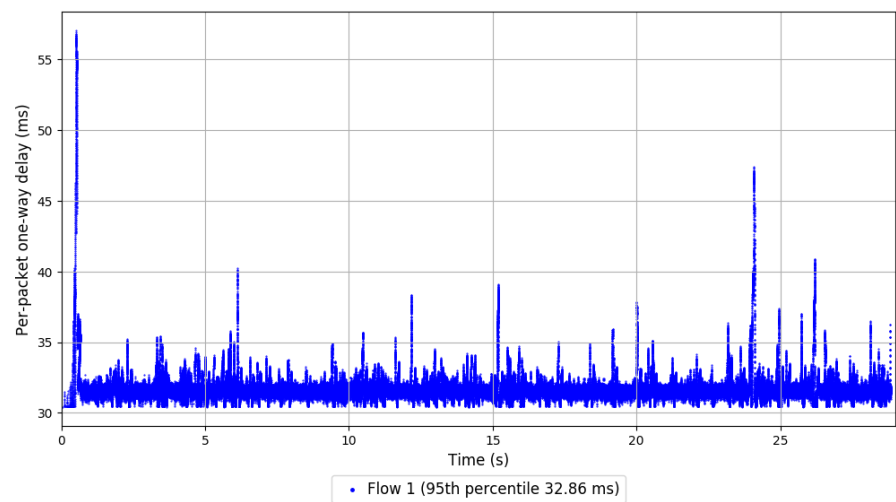
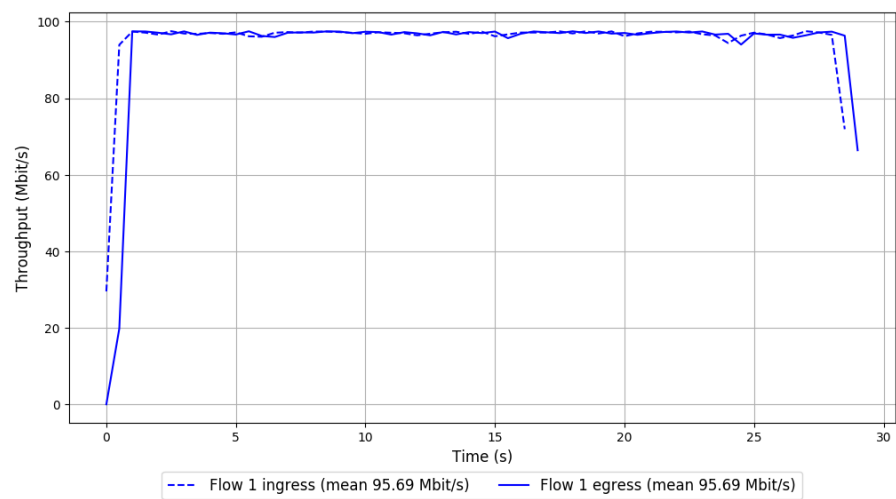
-- Flow 1:

Average throughput: 95.69 Mbit/s

95th percentile per-packet one-way delay: 32.862 ms

Loss rate: 0.22%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-10-03 07:30:16

End at: 2019-10-03 07:30:46

Local clock offset: 0.26 ms

Remote clock offset: 7.553 ms

Below is generated by plot.py at 2019-10-03 10:39:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.39 Mbit/s

95th percentile per-packet one-way delay: 41.406 ms

Loss rate: 0.39%

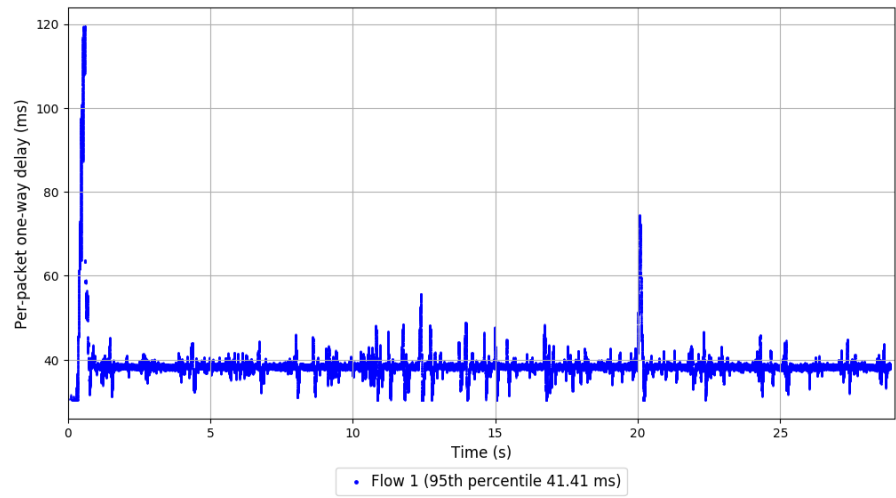
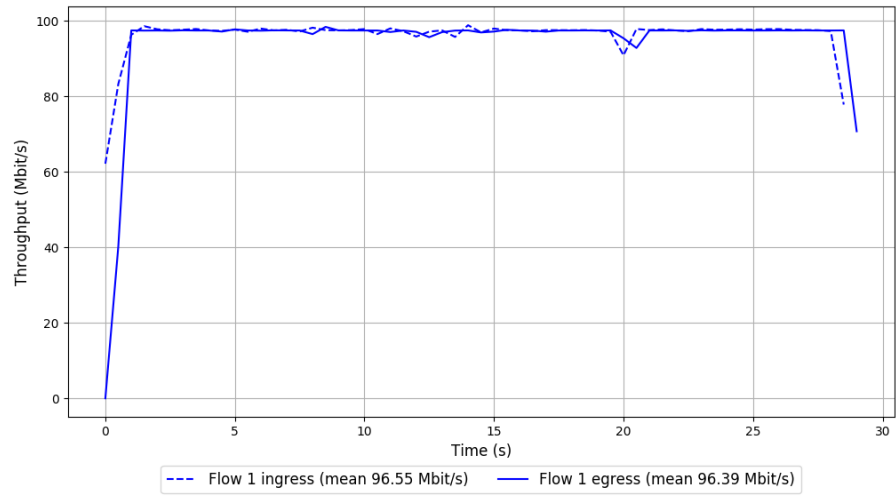
-- Flow 1:

Average throughput: 96.39 Mbit/s

95th percentile per-packet one-way delay: 41.406 ms

Loss rate: 0.39%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-10-03 08:18:41

End at: 2019-10-03 08:19:11

Local clock offset: 0.134 ms

Remote clock offset: 7.82 ms

Below is generated by plot.py at 2019-10-03 10:39:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.56 Mbit/s

95th percentile per-packet one-way delay: 40.196 ms

Loss rate: 0.42%

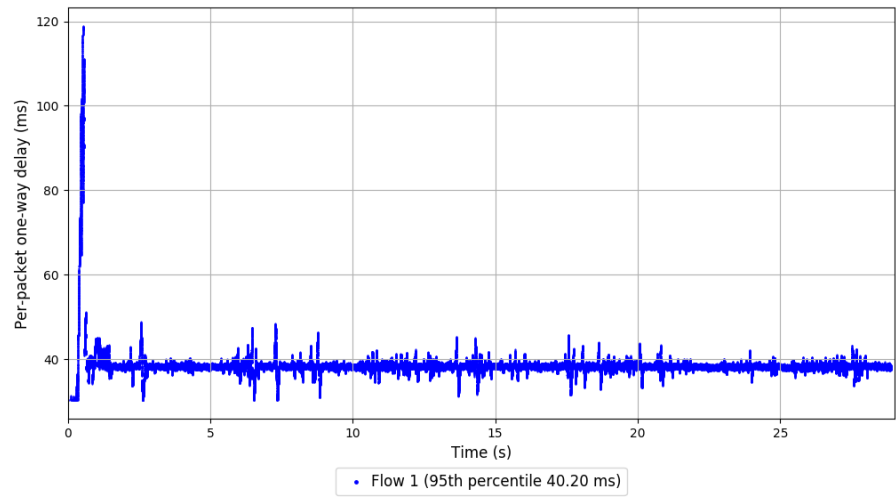
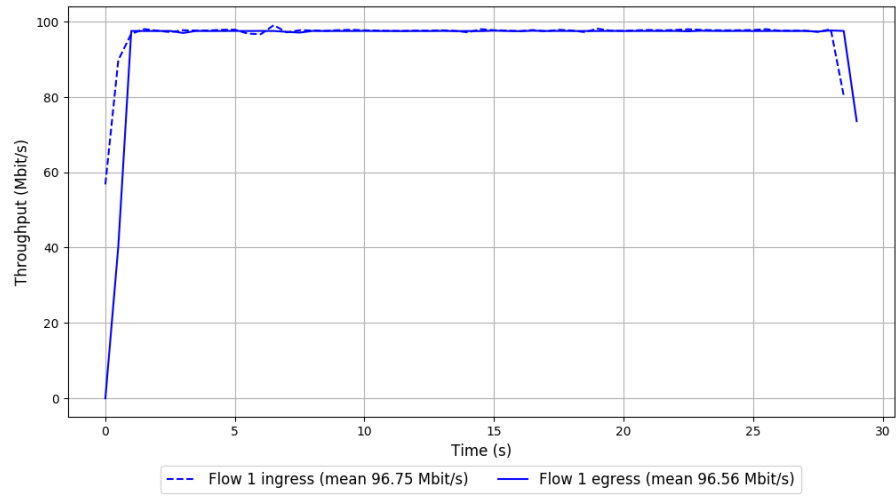
-- Flow 1:

Average throughput: 96.56 Mbit/s

95th percentile per-packet one-way delay: 40.196 ms

Loss rate: 0.42%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-10-03 08:59:01

End at: 2019-10-03 08:59:31

Local clock offset: 0.181 ms

Remote clock offset: 7.235 ms

Below is generated by plot.py at 2019-10-03 10:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.50 Mbit/s

95th percentile per-packet one-way delay: 40.001 ms

Loss rate: 0.41%

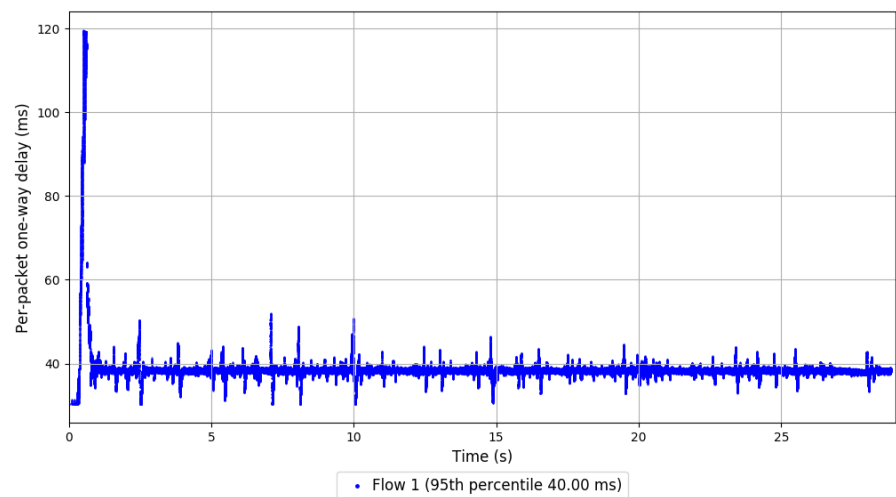
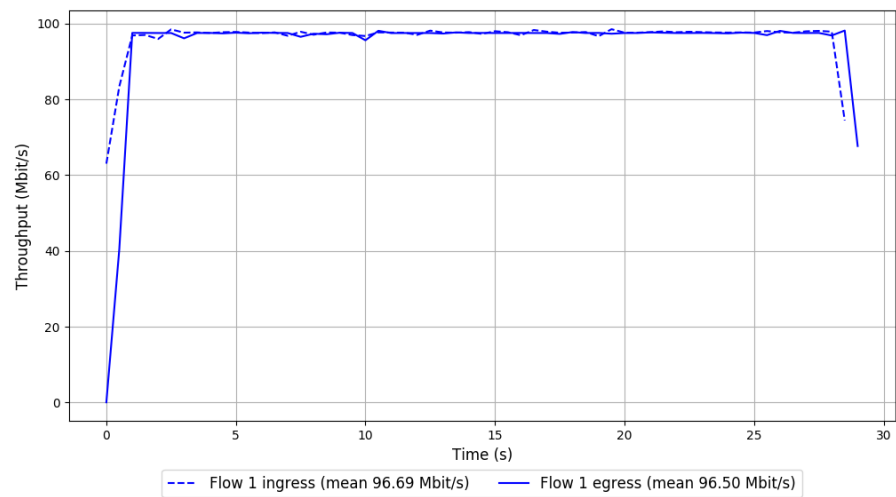
-- Flow 1:

Average throughput: 96.50 Mbit/s

95th percentile per-packet one-way delay: 40.001 ms

Loss rate: 0.41%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-10-03 09:38:47

End at: 2019-10-03 09:39:17

Local clock offset: 0.123 ms

Remote clock offset: 7.511 ms

Below is generated by plot.py at 2019-10-03 10:39:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.46 Mbit/s

95th percentile per-packet one-way delay: 47.455 ms

Loss rate: 0.67%

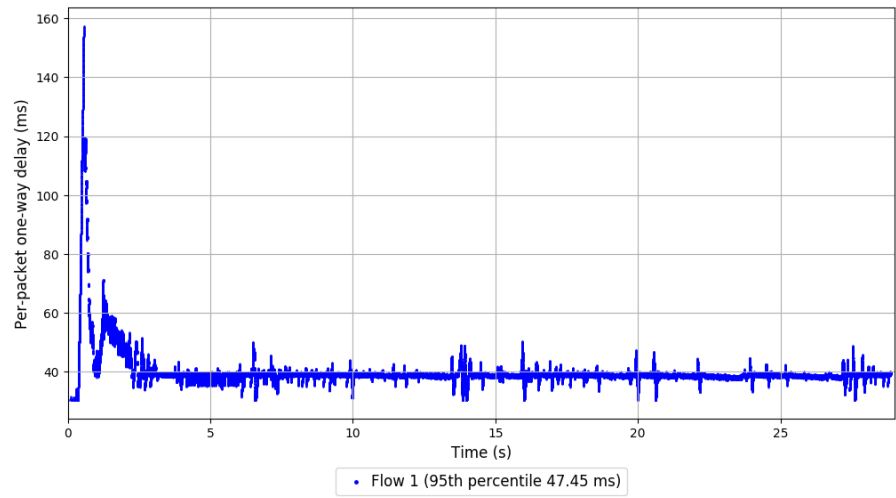
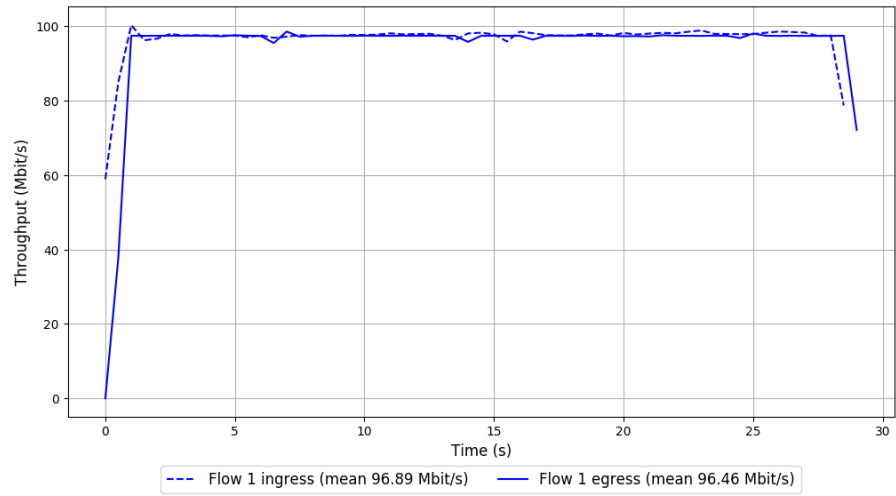
-- Flow 1:

Average throughput: 96.46 Mbit/s

95th percentile per-packet one-way delay: 47.455 ms

Loss rate: 0.67%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-10-03 10:16:39

End at: 2019-10-03 10:17:09

Local clock offset: 0.26 ms

Remote clock offset: 7.69 ms

Below is generated by plot.py at 2019-10-03 10:39:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.53 Mbit/s

95th percentile per-packet one-way delay: 40.876 ms

Loss rate: 0.44%

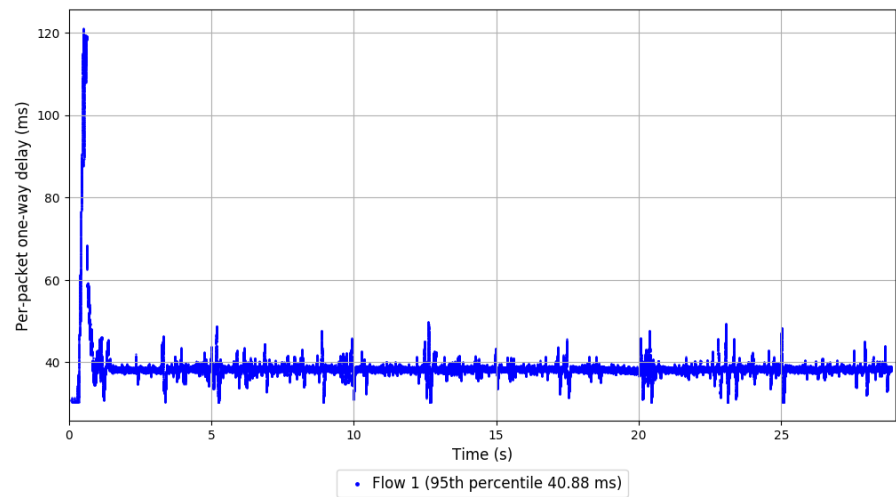
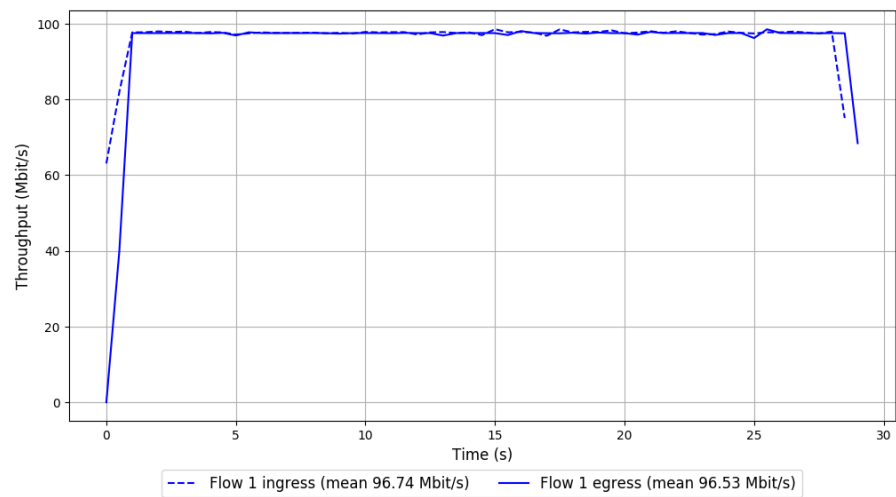
-- Flow 1:

Average throughput: 96.53 Mbit/s

95th percentile per-packet one-way delay: 40.876 ms

Loss rate: 0.44%

Run 5: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2019-10-03 07:10:49

End at: 2019-10-03 07:11:19

Local clock offset: 0.279 ms

Remote clock offset: 7.855 ms

Below is generated by plot.py at 2019-10-03 10:39:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.10 Mbit/s

95th percentile per-packet one-way delay: 36.798 ms

Loss rate: 0.19%

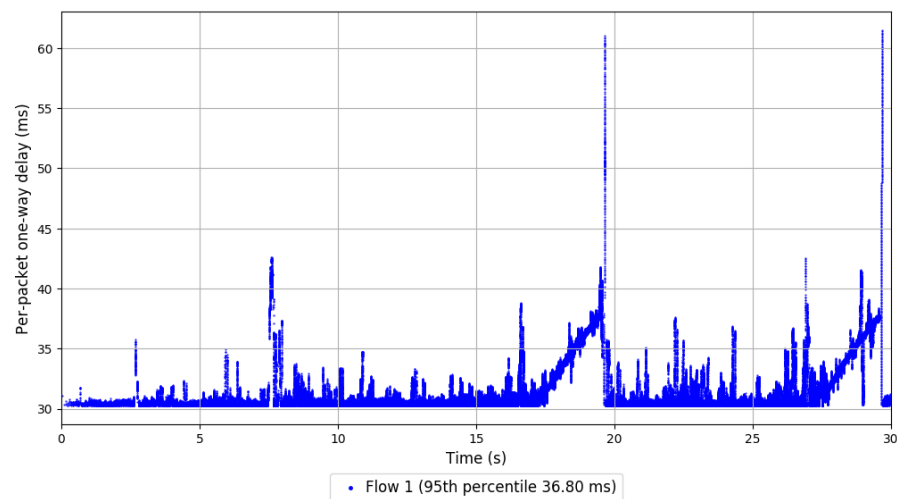
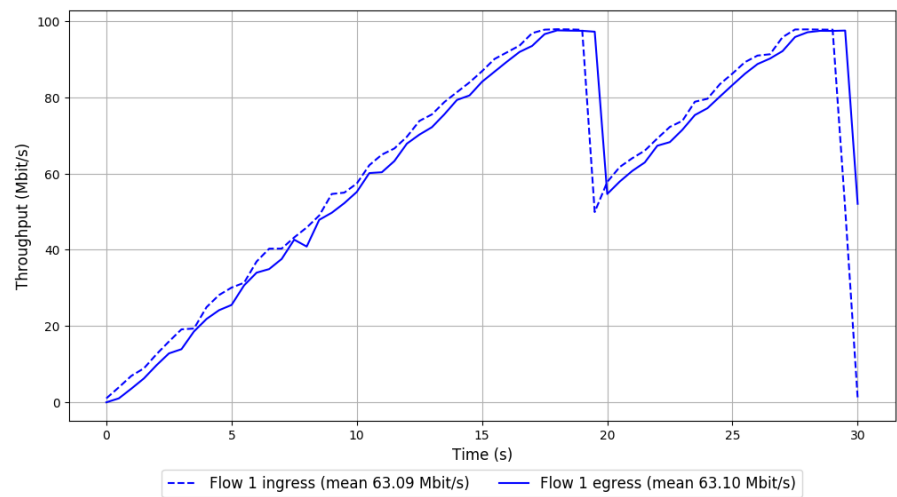
-- Flow 1:

Average throughput: 63.10 Mbit/s

95th percentile per-packet one-way delay: 36.798 ms

Loss rate: 0.19%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-10-03 08:00:21

End at: 2019-10-03 08:00:51

Local clock offset: 0.268 ms

Remote clock offset: 7.658 ms

Below is generated by plot.py at 2019-10-03 10:40:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.78 Mbit/s

95th percentile per-packet one-way delay: 37.609 ms

Loss rate: 0.19%

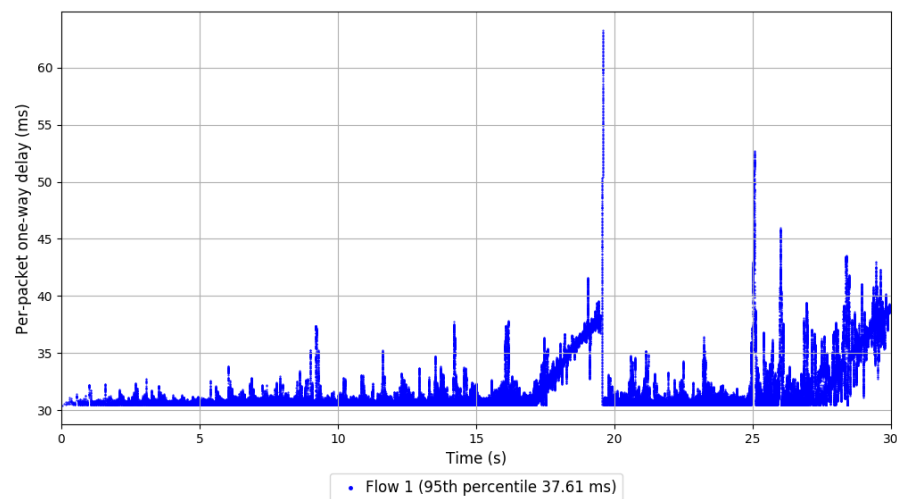
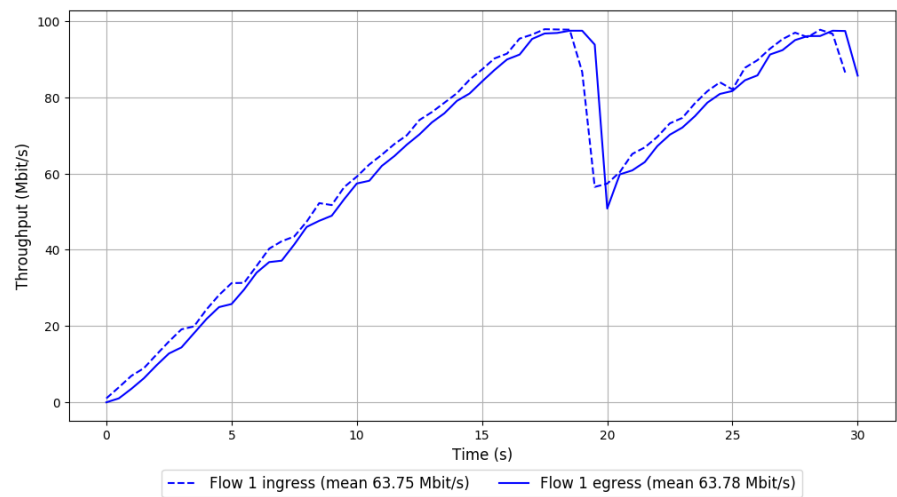
-- Flow 1:

Average throughput: 63.78 Mbit/s

95th percentile per-packet one-way delay: 37.609 ms

Loss rate: 0.19%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-10-03 08:45:14

End at: 2019-10-03 08:45:44

Local clock offset: 0.208 ms

Remote clock offset: 7.208 ms

Below is generated by plot.py at 2019-10-03 10:40:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.03 Mbit/s

95th percentile per-packet one-way delay: 37.151 ms

Loss rate: 0.19%

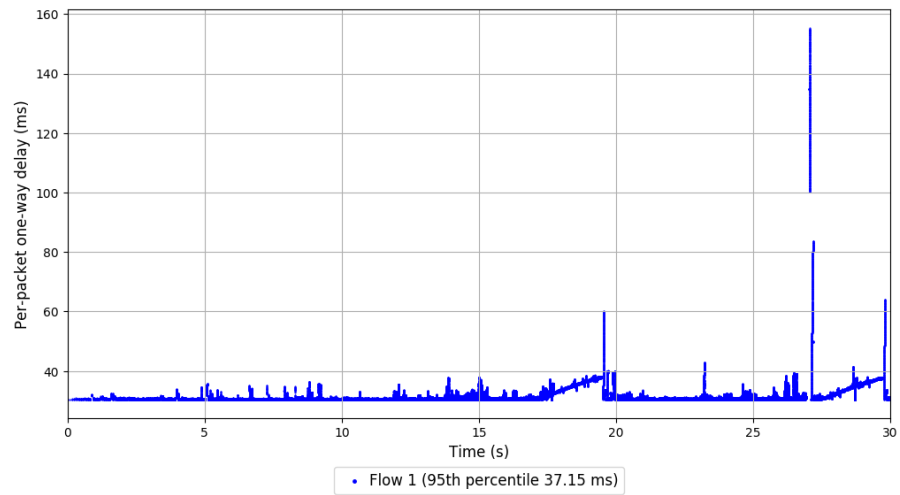
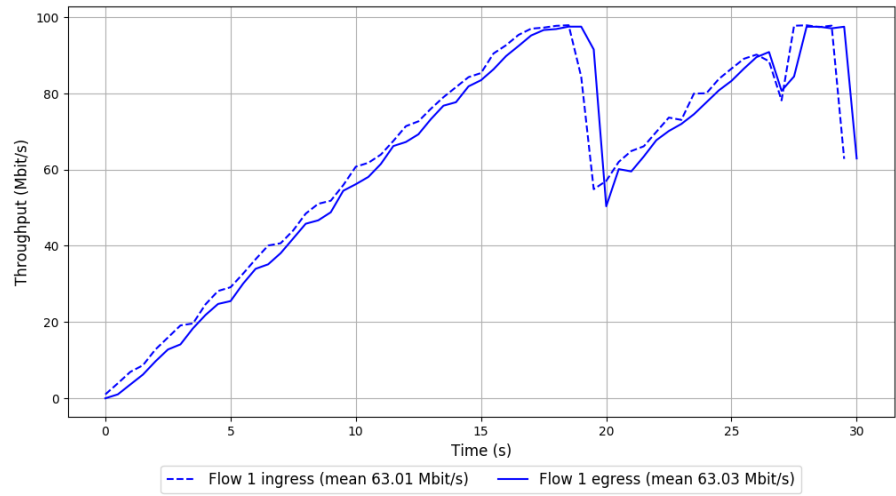
-- Flow 1:

Average throughput: 63.03 Mbit/s

95th percentile per-packet one-way delay: 37.151 ms

Loss rate: 0.19%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-10-03 09:23:18

End at: 2019-10-03 09:23:48

Local clock offset: 0.135 ms

Remote clock offset: 7.353 ms

Below is generated by plot.py at 2019-10-03 10:40:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.74 Mbit/s

95th percentile per-packet one-way delay: 36.416 ms

Loss rate: 0.31%

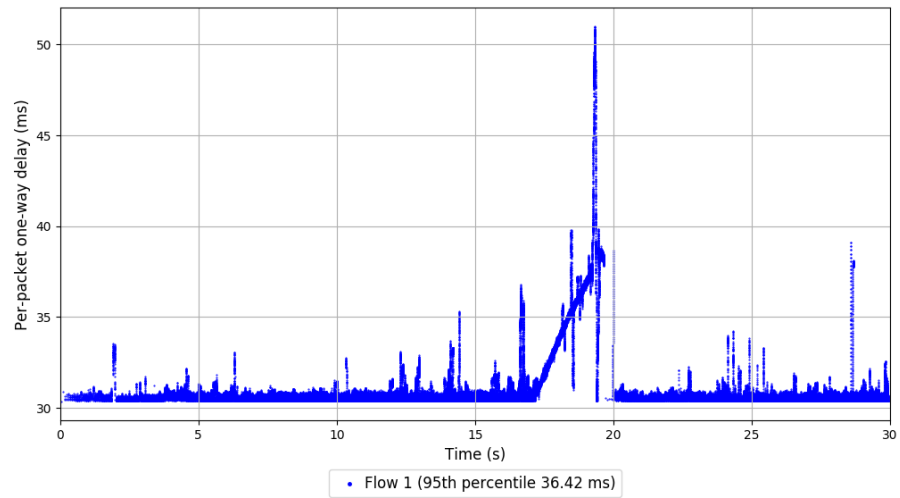
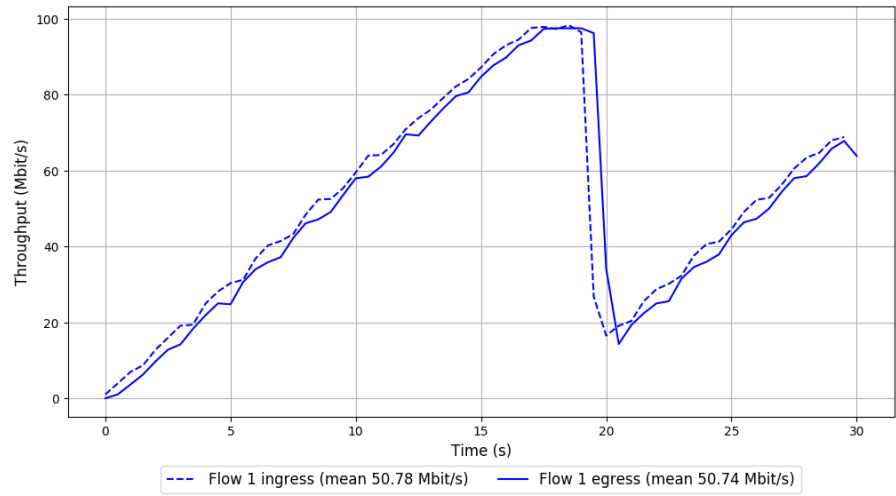
-- Flow 1:

Average throughput: 50.74 Mbit/s

95th percentile per-packet one-way delay: 36.416 ms

Loss rate: 0.31%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-10-03 10:02:49

End at: 2019-10-03 10:03:19

Local clock offset: 0.177 ms

Remote clock offset: 7.874 ms

Below is generated by plot.py at 2019-10-03 10:40:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.31 Mbit/s

95th percentile per-packet one-way delay: 37.080 ms

Loss rate: 0.19%

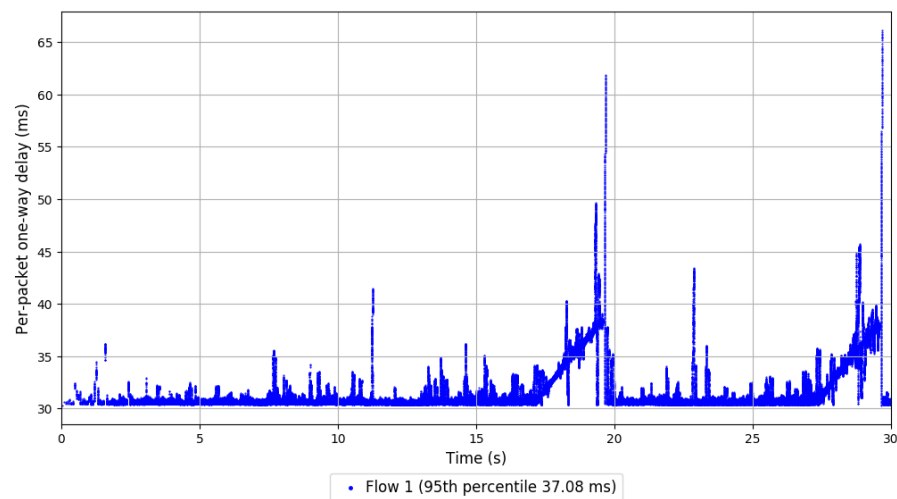
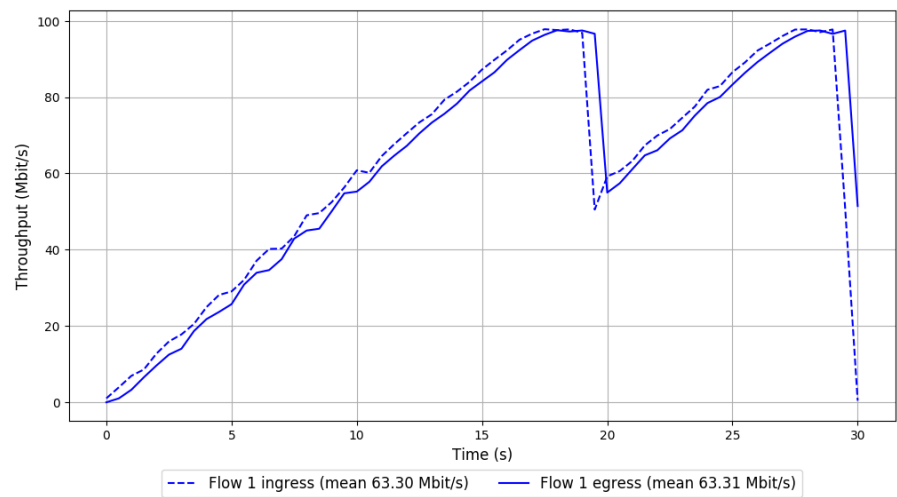
-- Flow 1:

Average throughput: 63.31 Mbit/s

95th percentile per-packet one-way delay: 37.080 ms

Loss rate: 0.19%

Run 5: Report of LEDBAT — Data Link

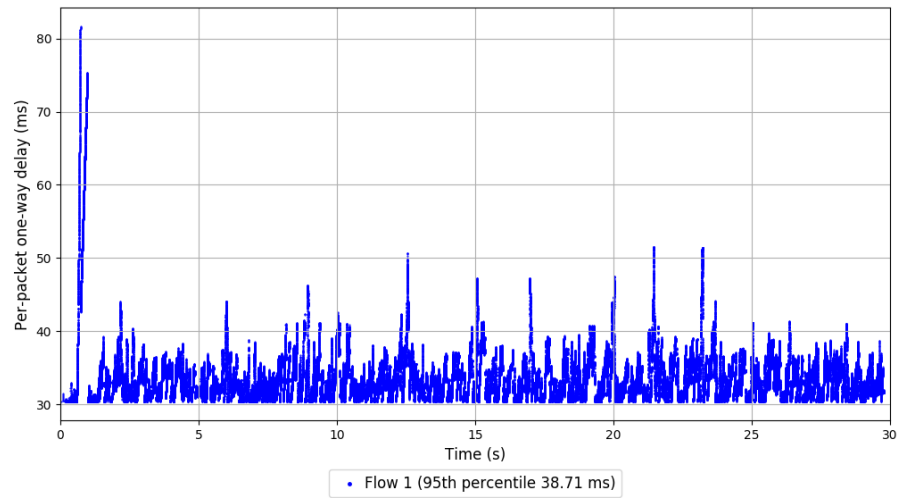
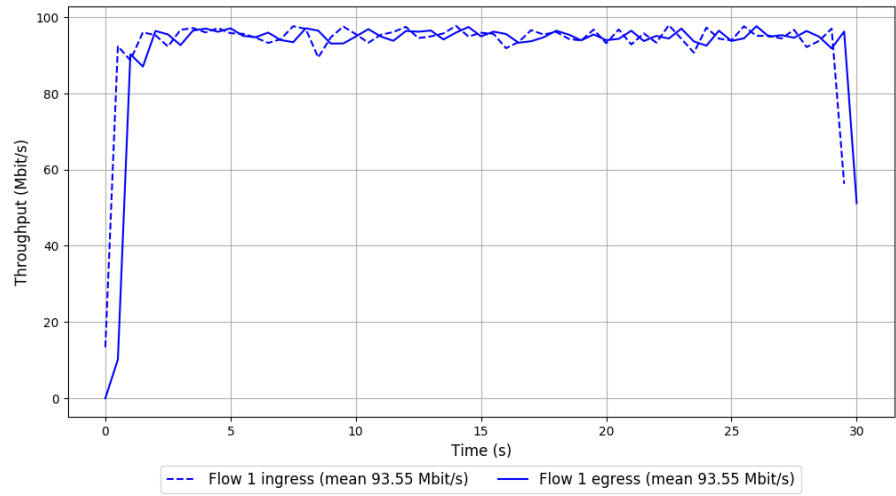


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-10-03 07:27:18
End at: 2019-10-03 07:27:48
Local clock offset: 0.243 ms
Remote clock offset: 7.459 ms

# Below is generated by plot.py at 2019-10-03 10:40:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.55 Mbit/s
95th percentile per-packet one-way delay: 38.713 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 93.55 Mbit/s
95th percentile per-packet one-way delay: 38.713 ms
Loss rate: 0.21%
```

Run 1: Report of Muses_DecisionTree — Data Link



Run 2: Statistics of Muses_DecisionTree

Start at: 2019-10-03 08:15:46

End at: 2019-10-03 08:16:16

Local clock offset: 0.153 ms

Remote clock offset: 7.797 ms

Below is generated by plot.py at 2019-10-03 10:40:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.79 Mbit/s

95th percentile per-packet one-way delay: 37.336 ms

Loss rate: 0.22%

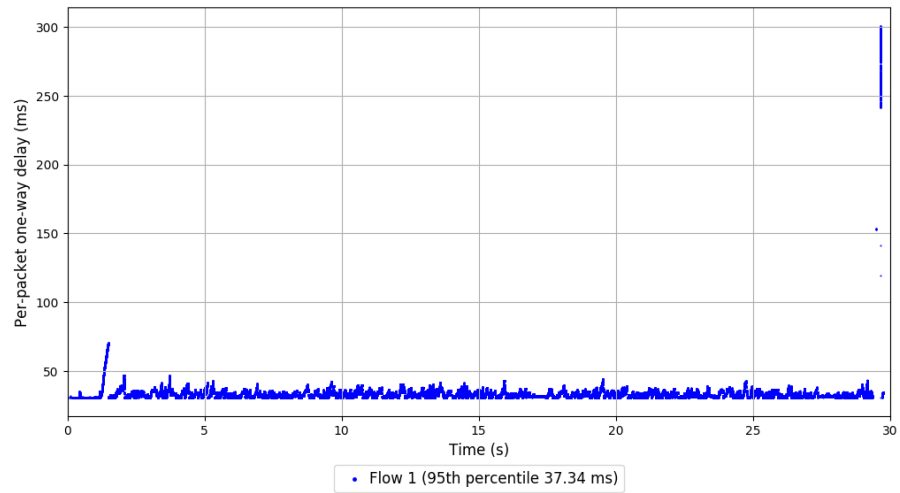
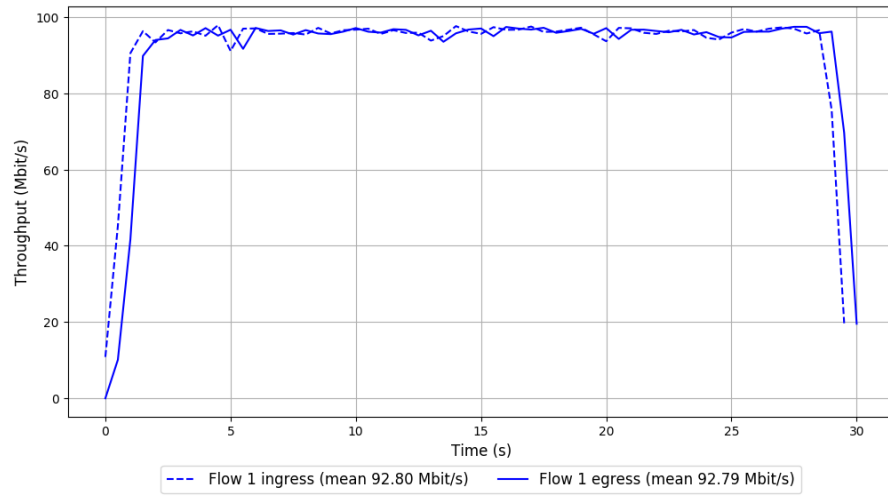
-- Flow 1:

Average throughput: 92.79 Mbit/s

95th percentile per-packet one-way delay: 37.336 ms

Loss rate: 0.22%

Run 2: Report of Muses_DecisionTree — Data Link



Run 3: Statistics of Muses_DecisionTree

Start at: 2019-10-03 08:56:16

End at: 2019-10-03 08:56:46

Local clock offset: 0.173 ms

Remote clock offset: 7.287 ms

Below is generated by plot.py at 2019-10-03 10:40:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.59 Mbit/s

95th percentile per-packet one-way delay: 38.999 ms

Loss rate: 0.17%

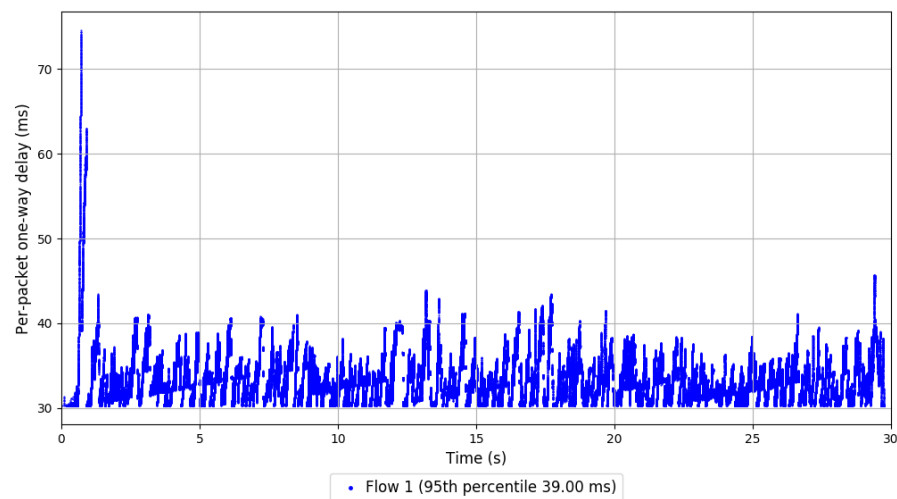
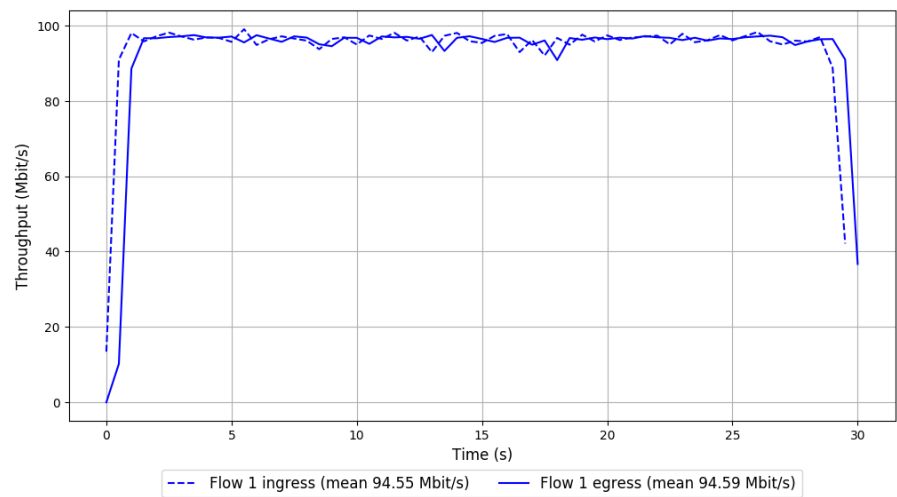
-- Flow 1:

Average throughput: 94.59 Mbit/s

95th percentile per-packet one-way delay: 38.999 ms

Loss rate: 0.17%

Run 3: Report of Muses_DecisionTree — Data Link



Run 4: Statistics of Muses_DecisionTree

Start at: 2019-10-03 09:36:01

End at: 2019-10-03 09:36:31

Local clock offset: 0.141 ms

Remote clock offset: 7.356 ms

Below is generated by plot.py at 2019-10-03 10:40:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.34 Mbit/s

95th percentile per-packet one-way delay: 37.792 ms

Loss rate: 0.24%

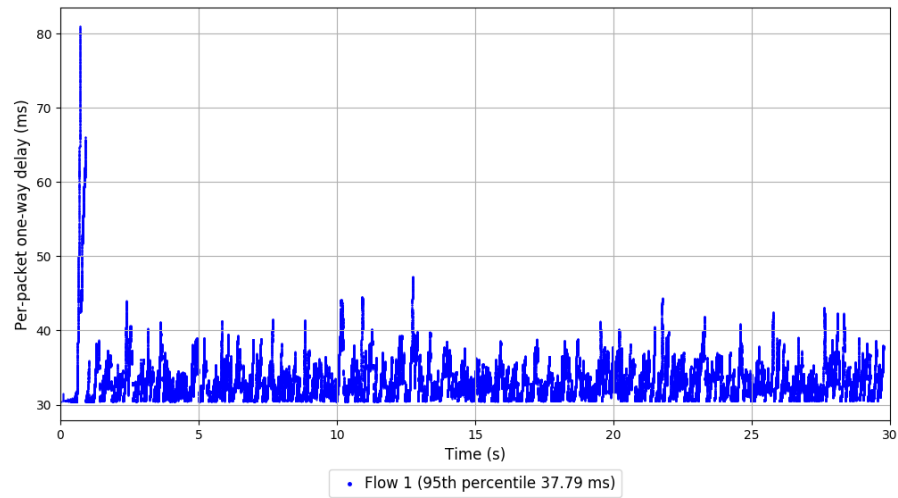
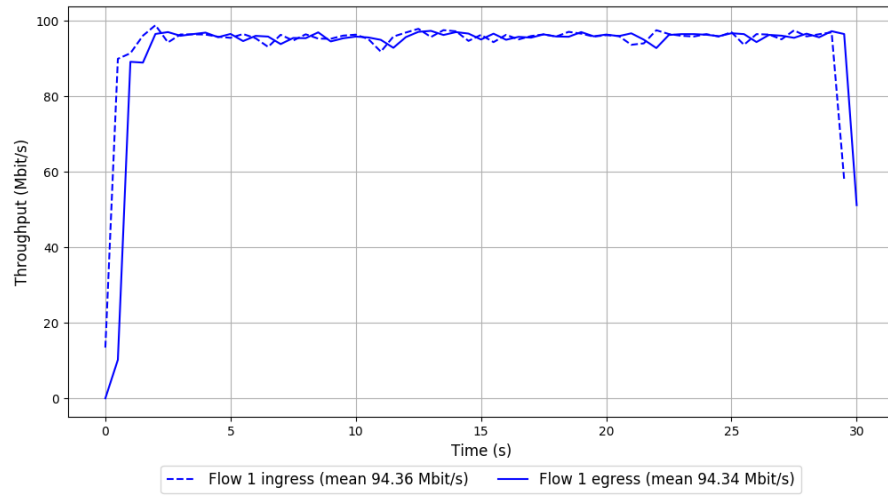
-- Flow 1:

Average throughput: 94.34 Mbit/s

95th percentile per-packet one-way delay: 37.792 ms

Loss rate: 0.24%

Run 4: Report of Muses_DecisionTree — Data Link



Run 5: Statistics of Muses_DecisionTree

Start at: 2019-10-03 10:14:05

End at: 2019-10-03 10:14:35

Local clock offset: 0.257 ms

Remote clock offset: 7.788 ms

Below is generated by plot.py at 2019-10-03 10:41:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.65 Mbit/s

95th percentile per-packet one-way delay: 38.123 ms

Loss rate: 0.23%

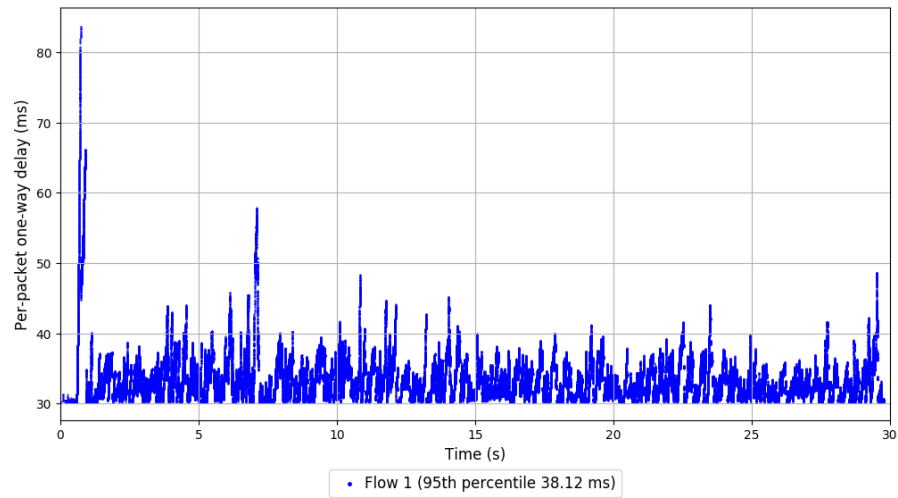
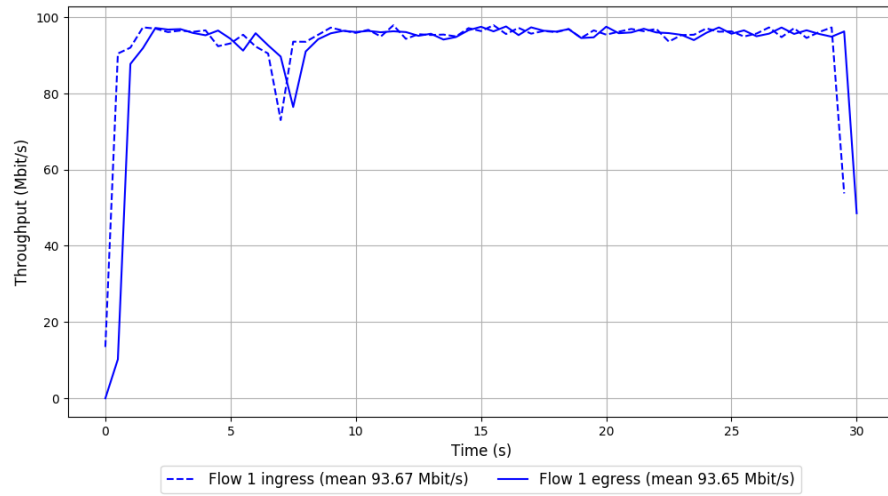
-- Flow 1:

Average throughput: 93.65 Mbit/s

95th percentile per-packet one-way delay: 38.123 ms

Loss rate: 0.23%

Run 5: Report of Muses_DecisionTree — Data Link



Run 1: Statistics of Muses_DecisionTreeH0

Start at: 2019-10-03 07:04:44

End at: 2019-10-03 07:05:14

Local clock offset: 0.217 ms

Remote clock offset: 7.658 ms

Below is generated by plot.py at 2019-10-03 10:41:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.19 Mbit/s

95th percentile per-packet one-way delay: 57.596 ms

Loss rate: 0.29%

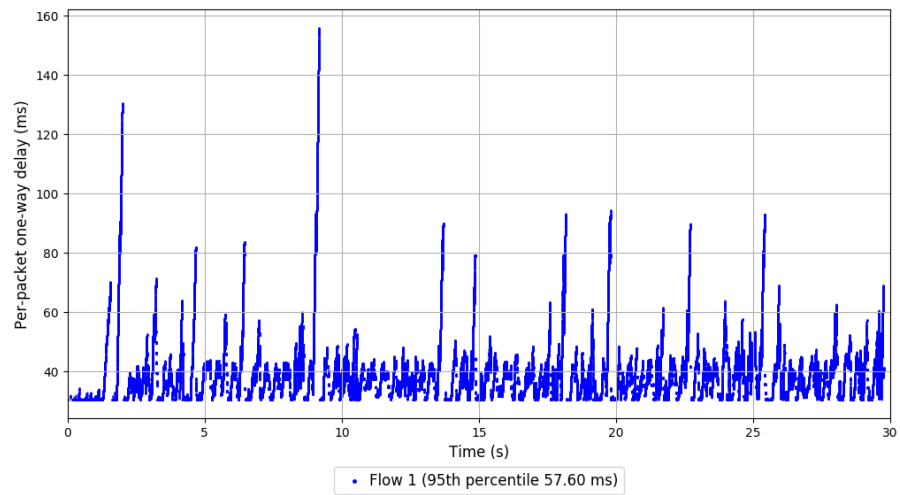
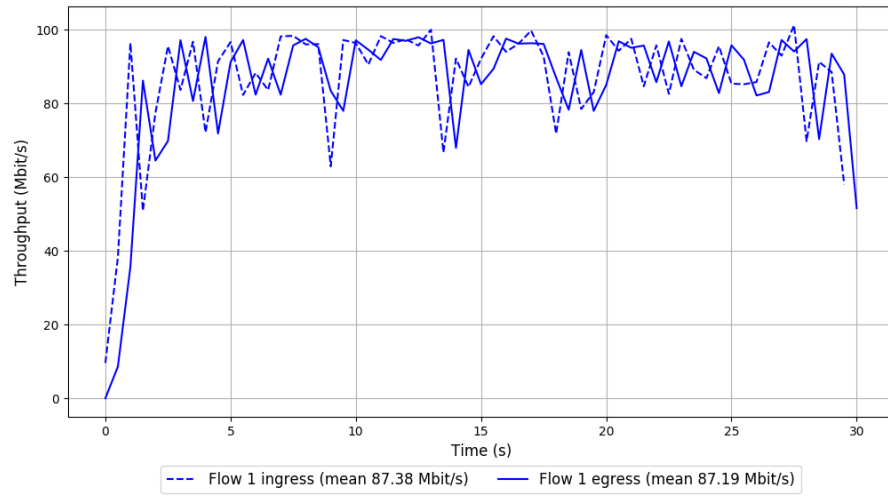
-- Flow 1:

Average throughput: 87.19 Mbit/s

95th percentile per-packet one-way delay: 57.596 ms

Loss rate: 0.29%

Run 1: Report of Muses_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2019-10-03 07:55:17

End at: 2019-10-03 07:55:47

Local clock offset: 0.278 ms

Remote clock offset: 7.695 ms

Below is generated by plot.py at 2019-10-03 10:41:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.54 Mbit/s

95th percentile per-packet one-way delay: 80.599 ms

Loss rate: 0.50%

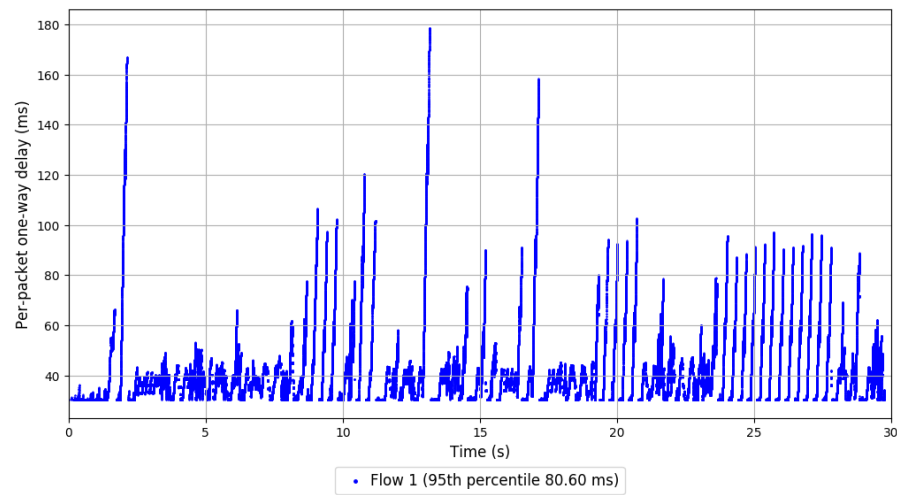
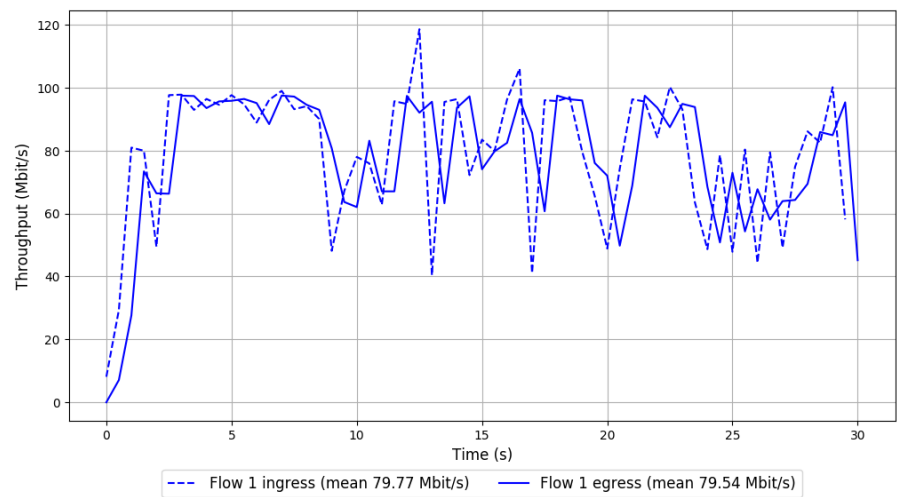
-- Flow 1:

Average throughput: 79.54 Mbit/s

95th percentile per-packet one-way delay: 80.599 ms

Loss rate: 0.50%

Run 2: Report of Muses_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2019-10-03 08:40:43

End at: 2019-10-03 08:41:13

Local clock offset: 0.207 ms

Remote clock offset: 7.347 ms

Below is generated by plot.py at 2019-10-03 10:41:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.39 Mbit/s

95th percentile per-packet one-way delay: 65.839 ms

Loss rate: 0.42%

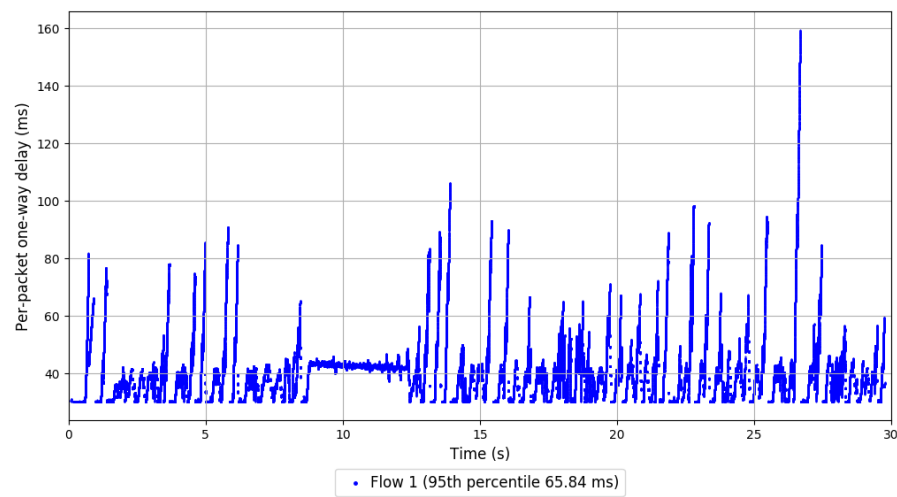
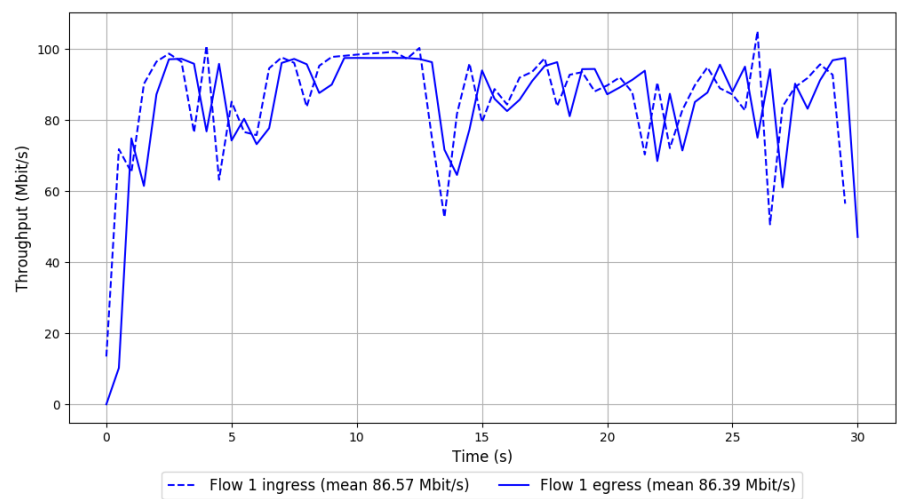
-- Flow 1:

Average throughput: 86.39 Mbit/s

95th percentile per-packet one-way delay: 65.839 ms

Loss rate: 0.42%

Run 3: Report of Muses_DecisionTreeH0 — Data Link



Run 4: Statistics of Muses_DecisionTreeH0

Start at: 2019-10-03 09:19:04

End at: 2019-10-03 09:19:34

Local clock offset: 0.118 ms

Remote clock offset: 7.257 ms

Below is generated by plot.py at 2019-10-03 10:41:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.07 Mbit/s

95th percentile per-packet one-way delay: 87.855 ms

Loss rate: 0.10%

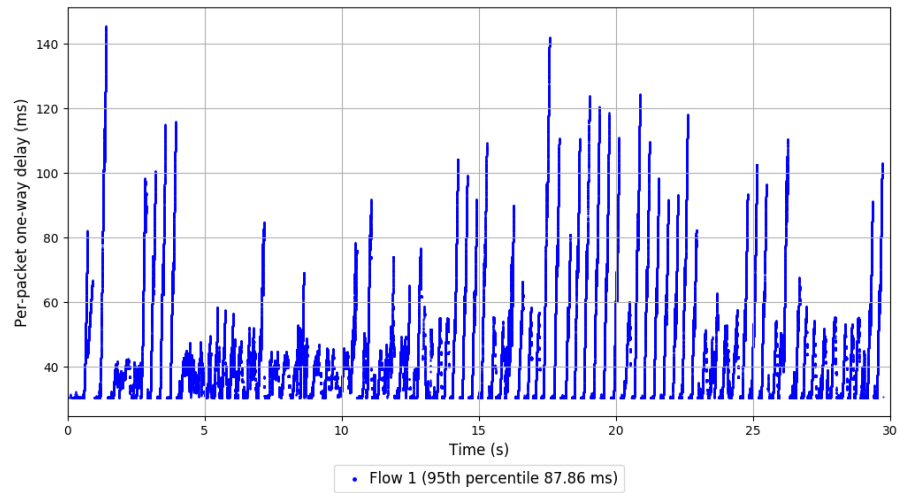
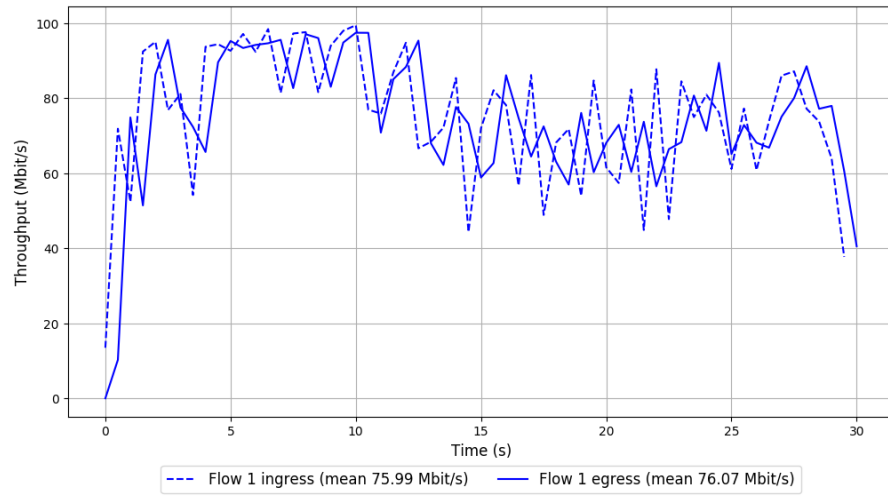
-- Flow 1:

Average throughput: 76.07 Mbit/s

95th percentile per-packet one-way delay: 87.855 ms

Loss rate: 0.10%

Run 4: Report of Muses_DecisionTreeH0 — Data Link



Run 5: Statistics of Muses_DecisionTreeH0

Start at: 2019-10-03 09:58:26

End at: 2019-10-03 09:58:56

Local clock offset: 0.144 ms

Remote clock offset: 7.9 ms

Below is generated by plot.py at 2019-10-03 10:41:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.10 Mbit/s

95th percentile per-packet one-way delay: 52.247 ms

Loss rate: 0.27%

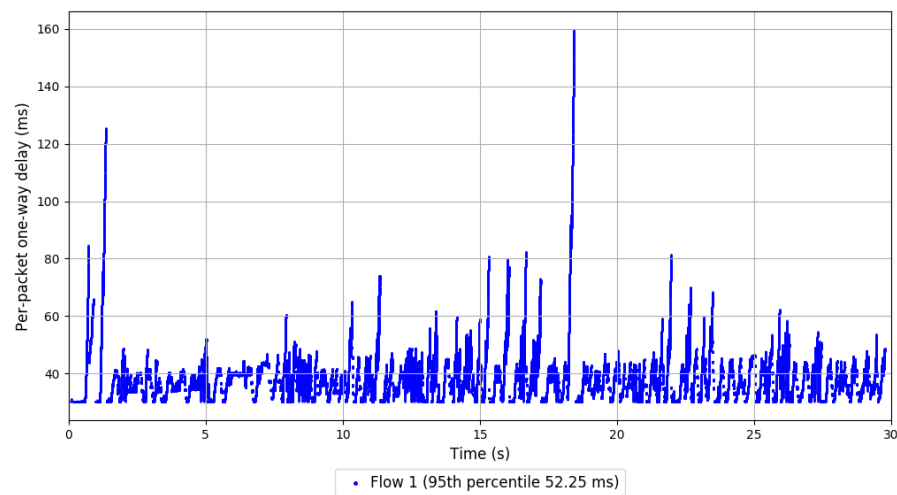
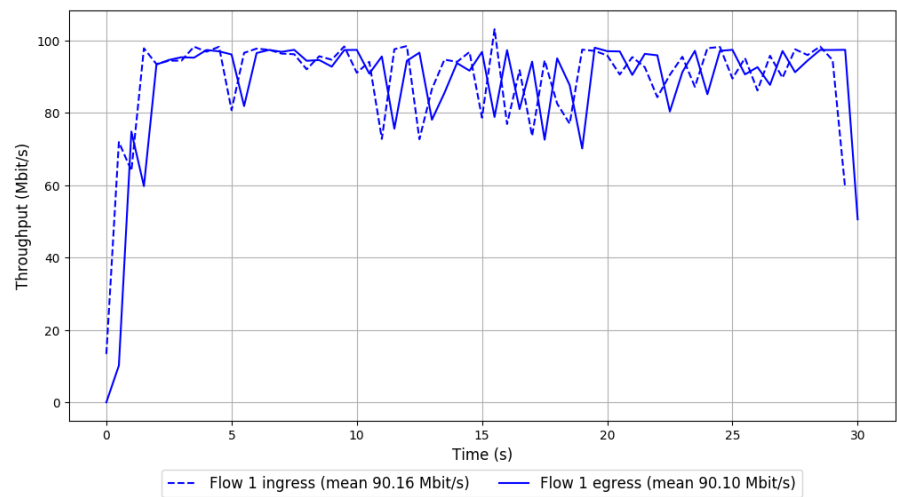
-- Flow 1:

Average throughput: 90.10 Mbit/s

95th percentile per-packet one-way delay: 52.247 ms

Loss rate: 0.27%

Run 5: Report of Muses_DecisionTreeH0 — Data Link

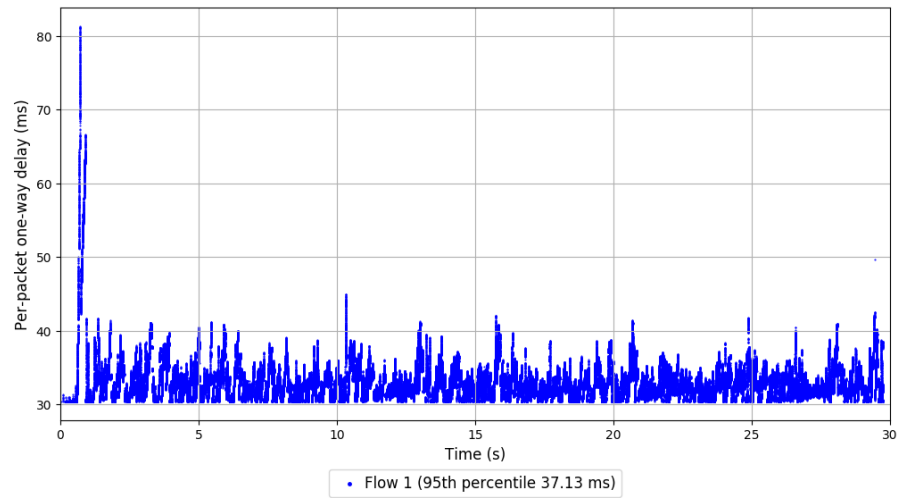
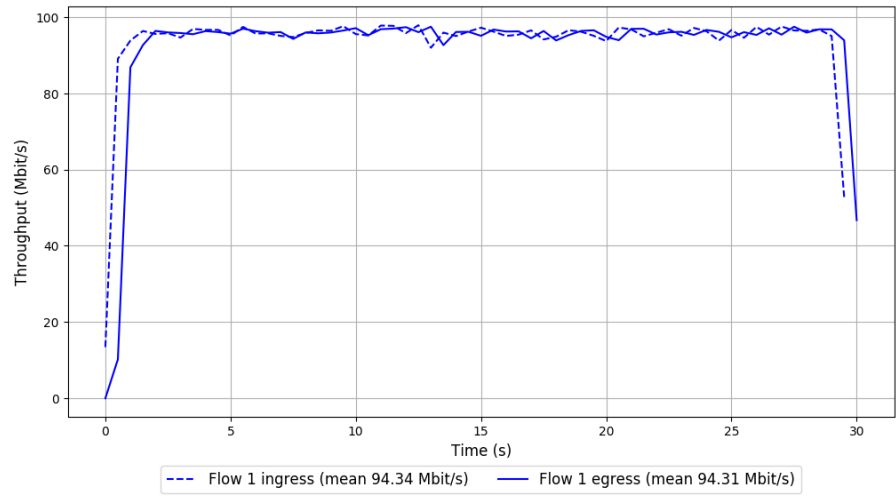


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-10-03 07:32:21
End at: 2019-10-03 07:32:51
Local clock offset: 0.288 ms
Remote clock offset: 7.542 ms

# Below is generated by plot.py at 2019-10-03 10:42:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.31 Mbit/s
95th percentile per-packet one-way delay: 37.133 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 94.31 Mbit/s
95th percentile per-packet one-way delay: 37.133 ms
Loss rate: 0.24%
```

Run 1: Report of Muses_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2019-10-03 08:20:47

End at: 2019-10-03 08:21:17

Local clock offset: 0.124 ms

Remote clock offset: 7.854 ms

Below is generated by plot.py at 2019-10-03 10:42:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.62 Mbit/s

95th percentile per-packet one-way delay: 37.190 ms

Loss rate: 0.23%

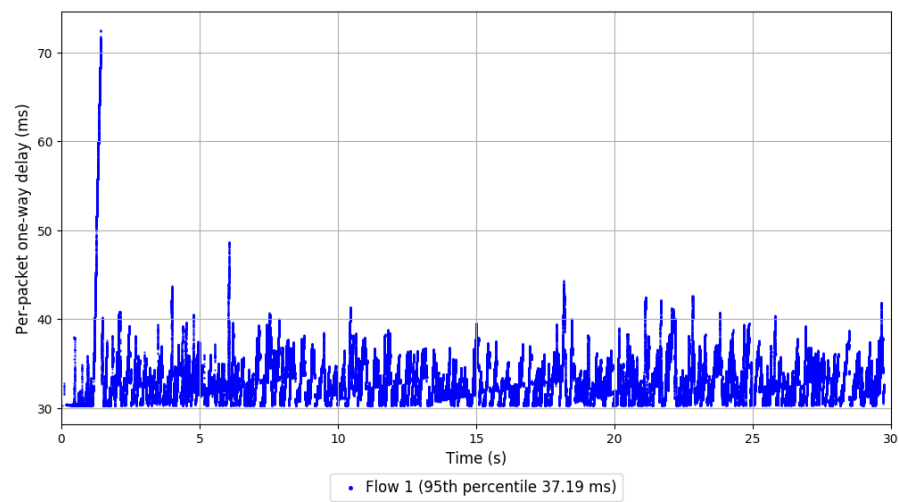
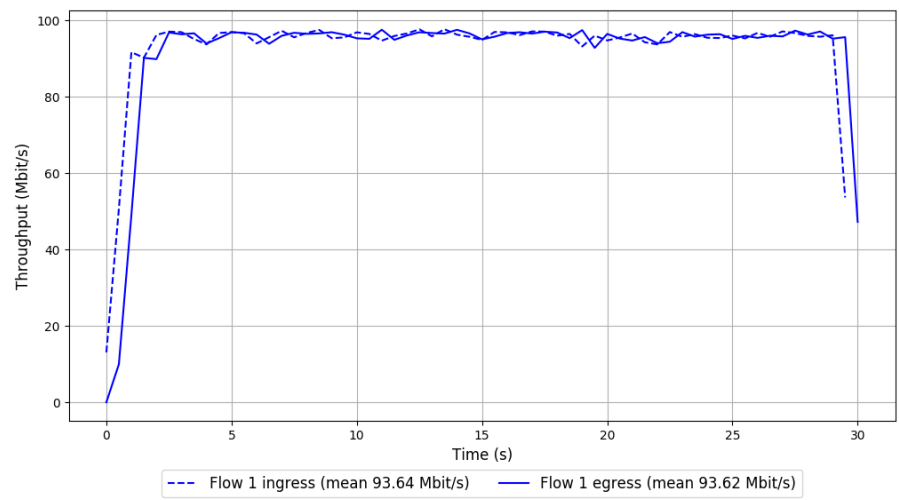
-- Flow 1:

Average throughput: 93.62 Mbit/s

95th percentile per-packet one-way delay: 37.190 ms

Loss rate: 0.23%

Run 2: Report of Muses_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-10-03 09:00:51

End at: 2019-10-03 09:01:21

Local clock offset: 0.169 ms

Remote clock offset: 7.102 ms

Below is generated by plot.py at 2019-10-03 10:42:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.76 Mbit/s

95th percentile per-packet one-way delay: 37.536 ms

Loss rate: 0.21%

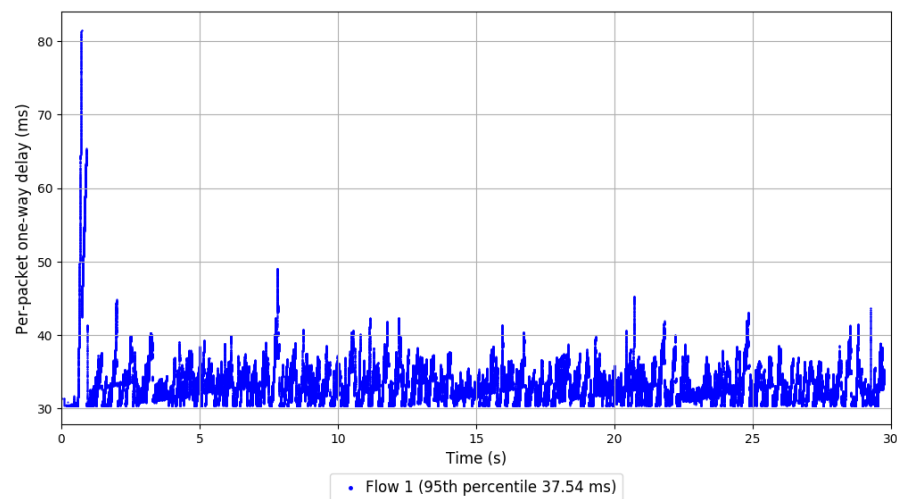
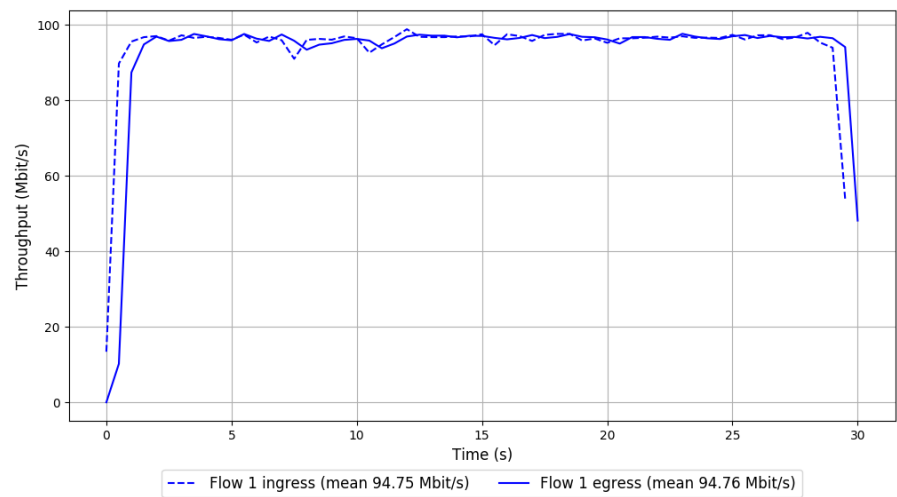
-- Flow 1:

Average throughput: 94.76 Mbit/s

95th percentile per-packet one-way delay: 37.536 ms

Loss rate: 0.21%

Run 3: Report of Muses_DecisionTreeR0 — Data Link



Run 4: Statistics of Muses_DecisionTreeR0

Start at: 2019-10-03 09:40:35

End at: 2019-10-03 09:41:05

Local clock offset: 0.097 ms

Remote clock offset: 7.409 ms

Below is generated by plot.py at 2019-10-03 10:42:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.04 Mbit/s

95th percentile per-packet one-way delay: 36.810 ms

Loss rate: 0.29%

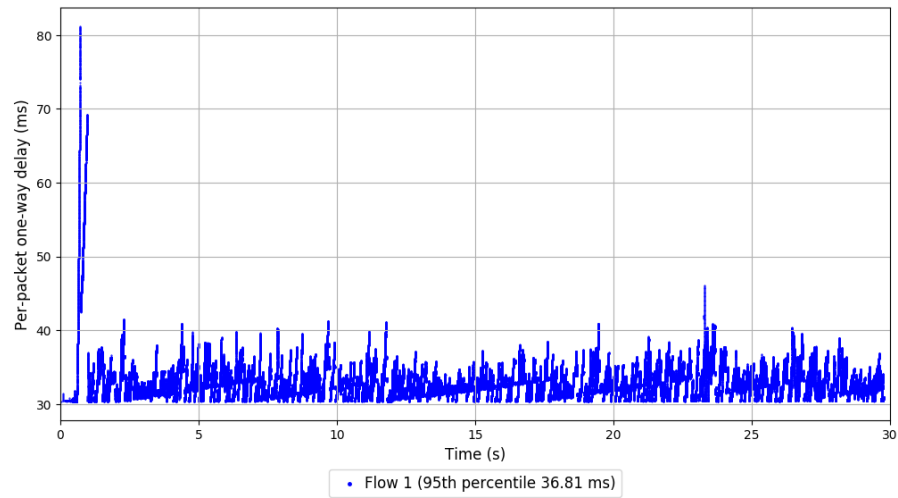
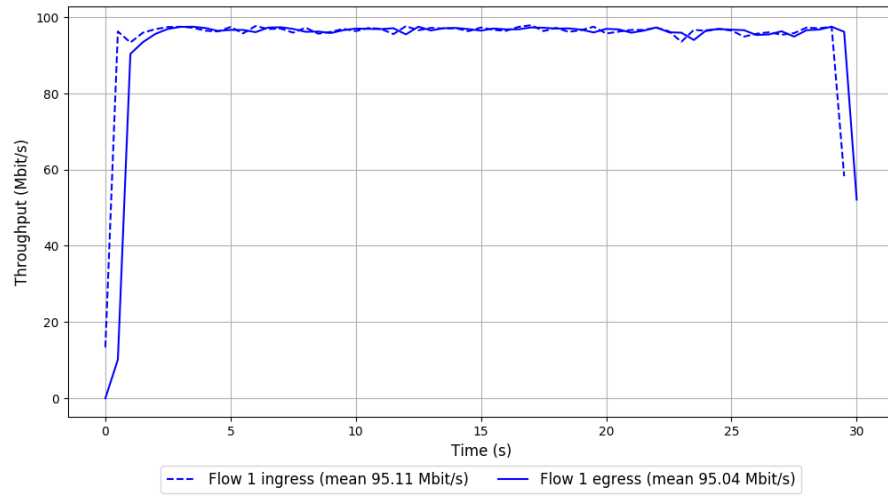
-- Flow 1:

Average throughput: 95.04 Mbit/s

95th percentile per-packet one-way delay: 36.810 ms

Loss rate: 0.29%

Run 4: Report of Muses_DecisionTreeR0 — Data Link



Run 5: Statistics of Muses_DecisionTreeR0

Start at: 2019-10-03 10:18:30

End at: 2019-10-03 10:19:00

Local clock offset: 0.276 ms

Remote clock offset: 7.518 ms

Below is generated by plot.py at 2019-10-03 10:42:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.85 Mbit/s

95th percentile per-packet one-way delay: 37.014 ms

Loss rate: 0.24%

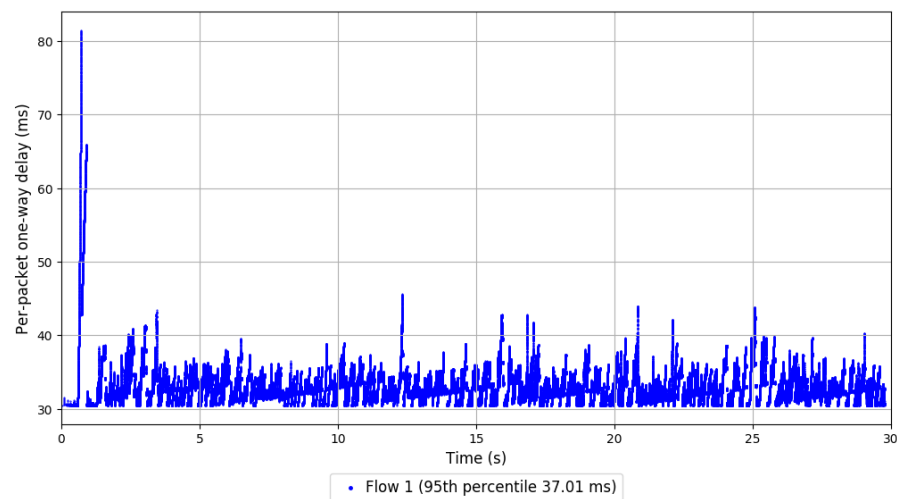
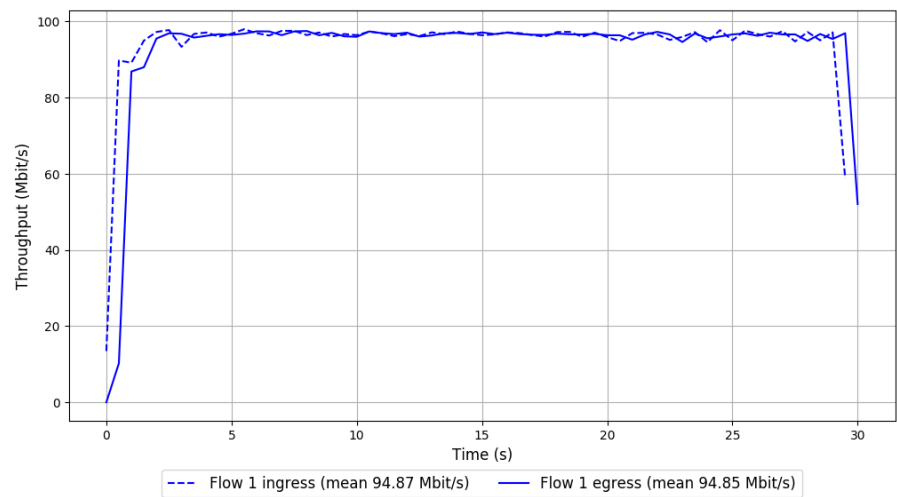
-- Flow 1:

Average throughput: 94.85 Mbit/s

95th percentile per-packet one-way delay: 37.014 ms

Loss rate: 0.24%

Run 5: Report of Muses_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-10-03 07:36:21

End at: 2019-10-03 07:36:51

Local clock offset: 0.291 ms

Remote clock offset: 7.559 ms

Below is generated by plot.py at 2019-10-03 10:42:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.80 Mbit/s

95th percentile per-packet one-way delay: 39.923 ms

Loss rate: 0.24%

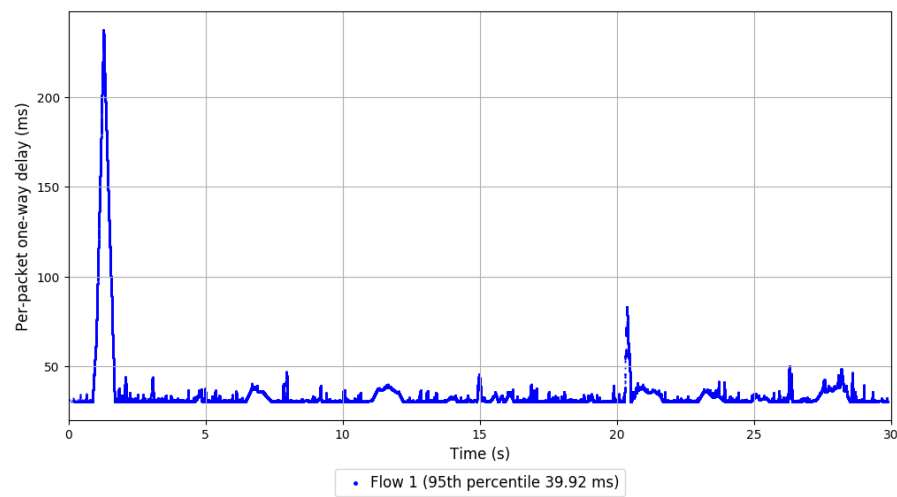
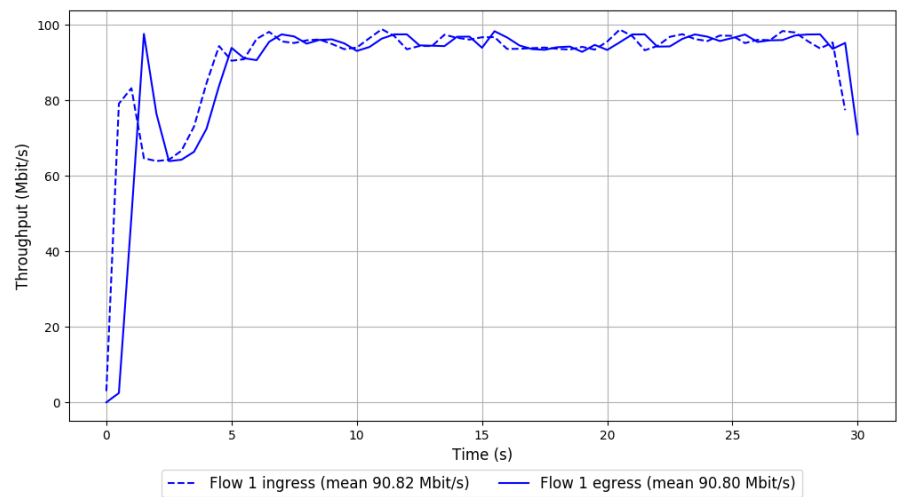
-- Flow 1:

Average throughput: 90.80 Mbit/s

95th percentile per-packet one-way delay: 39.923 ms

Loss rate: 0.24%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-10-03 08:24:42

End at: 2019-10-03 08:25:12

Local clock offset: 0.123 ms

Remote clock offset: 7.861 ms

Below is generated by plot.py at 2019-10-03 10:42:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.71 Mbit/s

95th percentile per-packet one-way delay: 35.140 ms

Loss rate: 0.24%

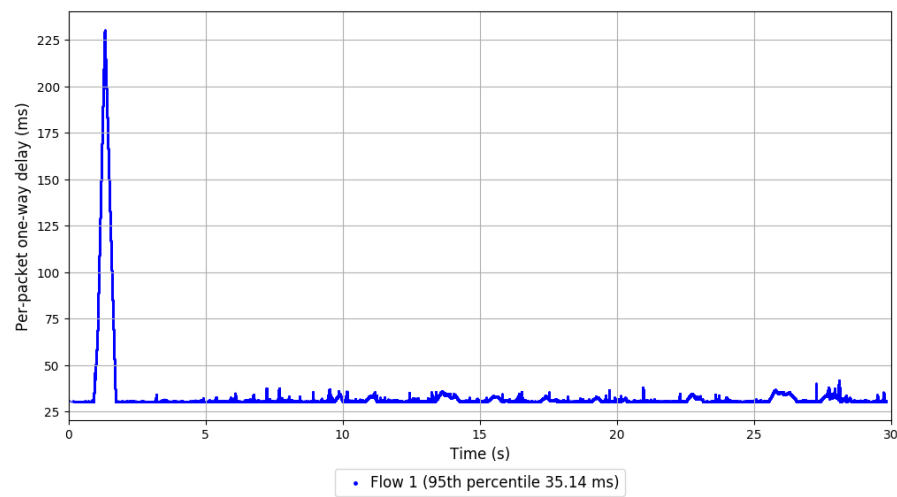
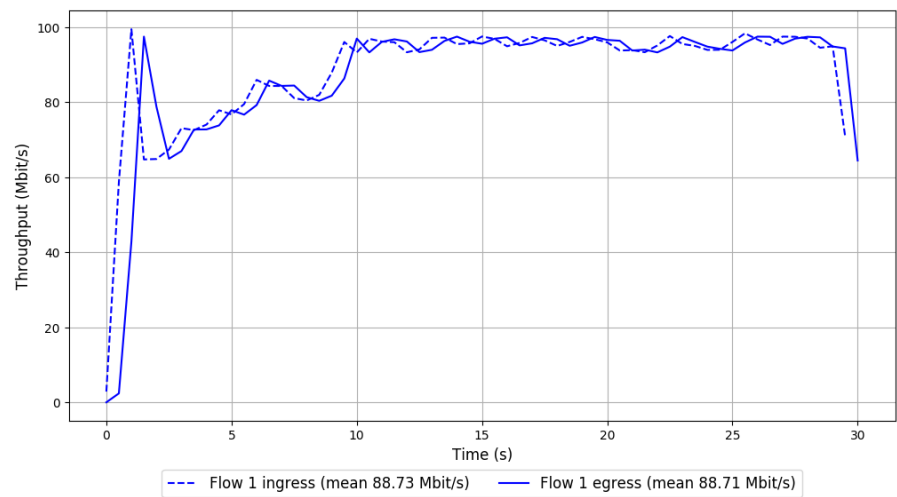
-- Flow 1:

Average throughput: 88.71 Mbit/s

95th percentile per-packet one-way delay: 35.140 ms

Loss rate: 0.24%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-10-03 09:03:45

End at: 2019-10-03 09:04:15

Local clock offset: 0.139 ms

Remote clock offset: 7.212 ms

Below is generated by plot.py at 2019-10-03 10:42:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.89 Mbit/s

95th percentile per-packet one-way delay: 34.404 ms

Loss rate: 0.24%

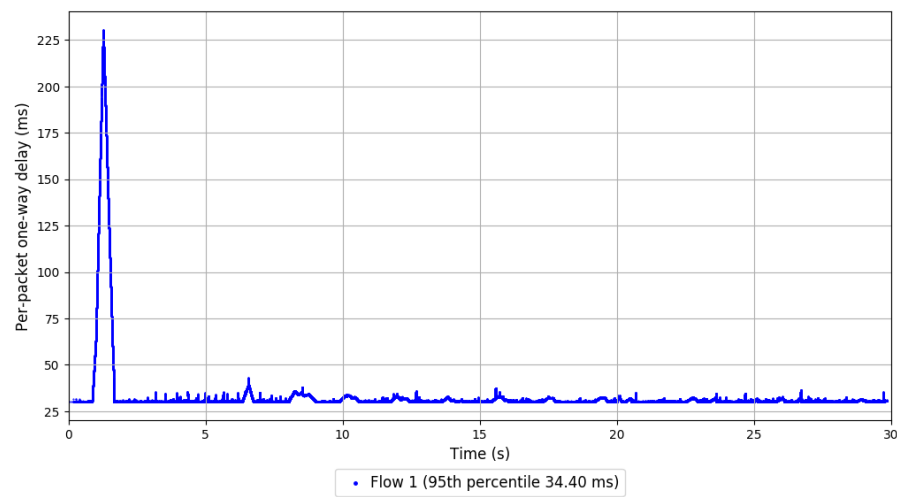
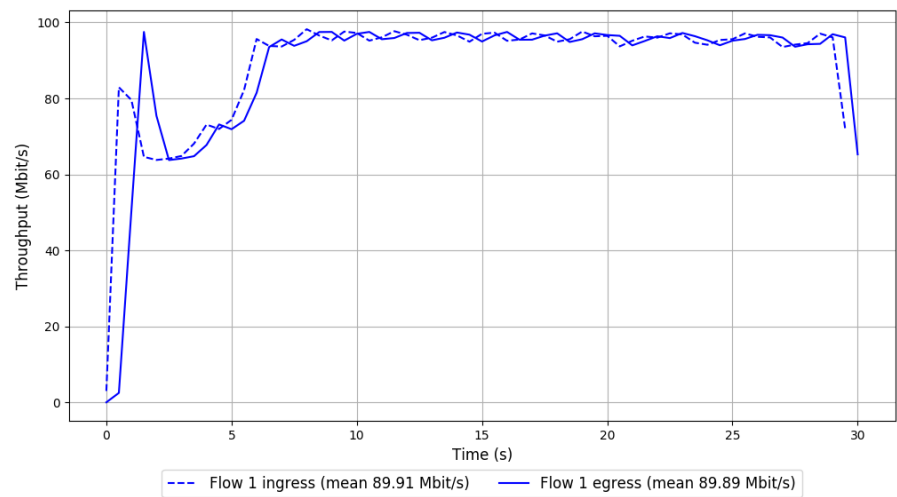
-- Flow 1:

Average throughput: 89.89 Mbit/s

95th percentile per-packet one-way delay: 34.404 ms

Loss rate: 0.24%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-10-03 09:43:45

End at: 2019-10-03 09:44:15

Local clock offset: 0.098 ms

Remote clock offset: 7.532 ms

Below is generated by plot.py at 2019-10-03 10:43:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.08 Mbit/s

95th percentile per-packet one-way delay: 36.342 ms

Loss rate: 0.23%

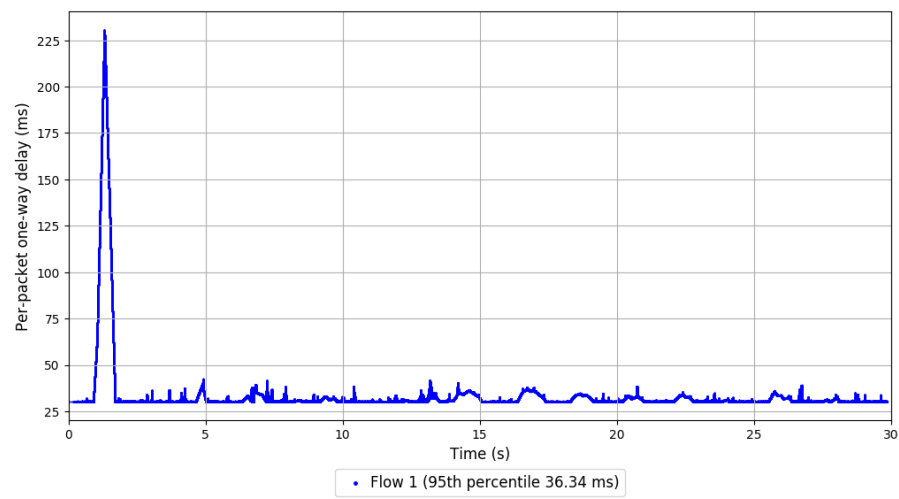
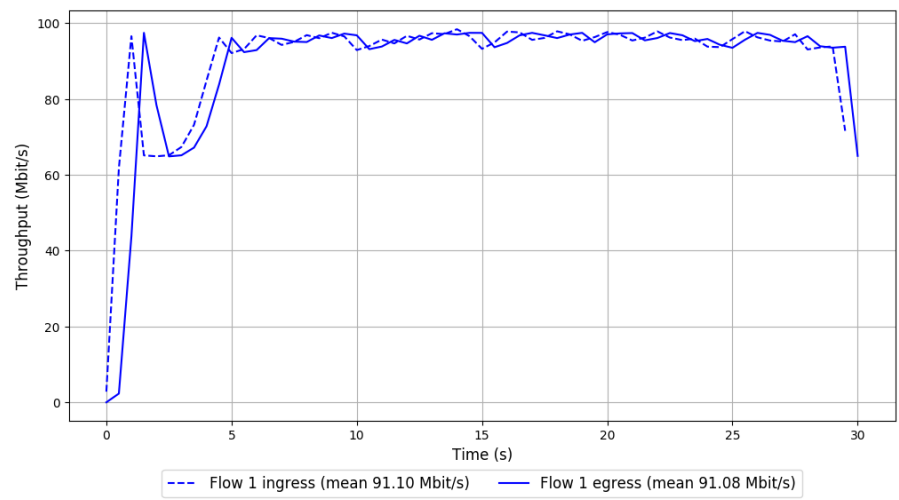
-- Flow 1:

Average throughput: 91.08 Mbit/s

95th percentile per-packet one-way delay: 36.342 ms

Loss rate: 0.23%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-10-03 10:21:57

End at: 2019-10-03 10:22:27

Local clock offset: 0.294 ms

Remote clock offset: 7.538 ms

Below is generated by plot.py at 2019-10-03 10:43:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.54 Mbit/s

95th percentile per-packet one-way delay: 43.513 ms

Loss rate: 0.28%

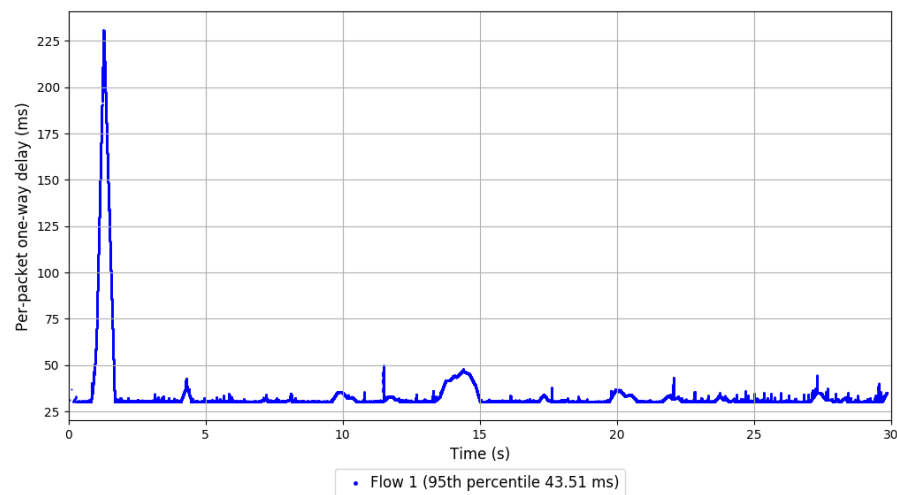
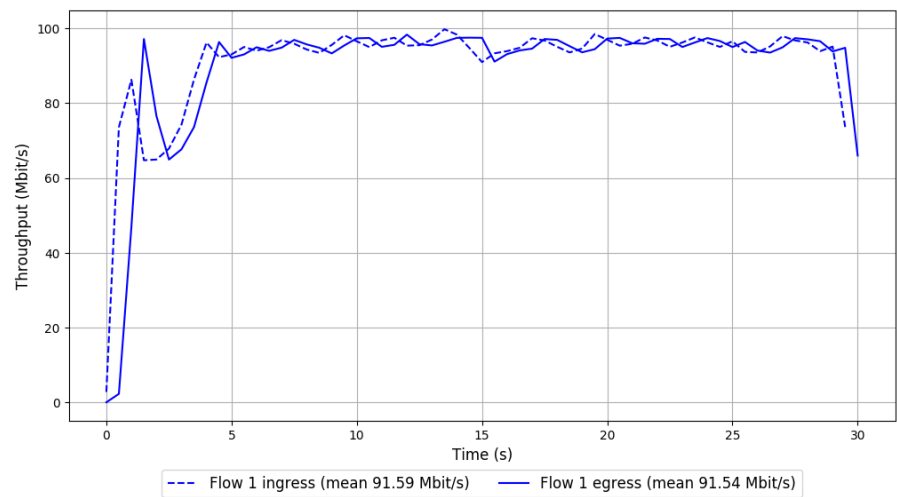
-- Flow 1:

Average throughput: 91.54 Mbit/s

95th percentile per-packet one-way delay: 43.513 ms

Loss rate: 0.28%

Run 5: Report of PCC-Allegro — Data Link

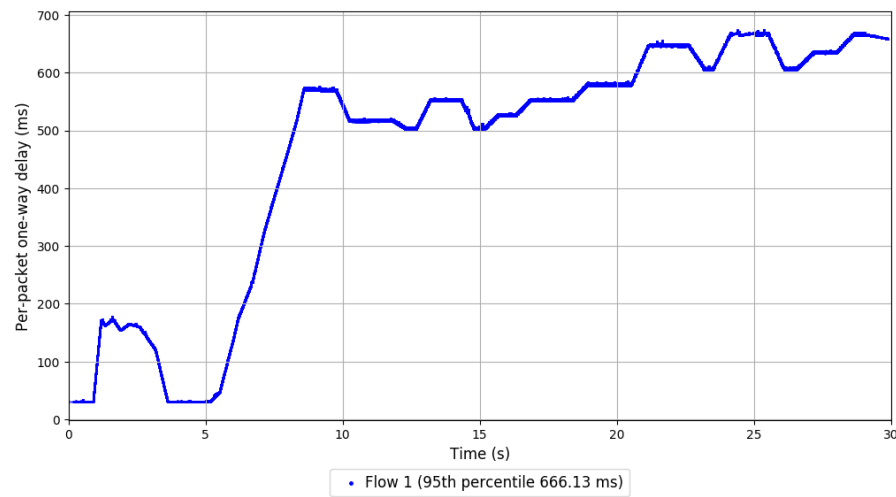
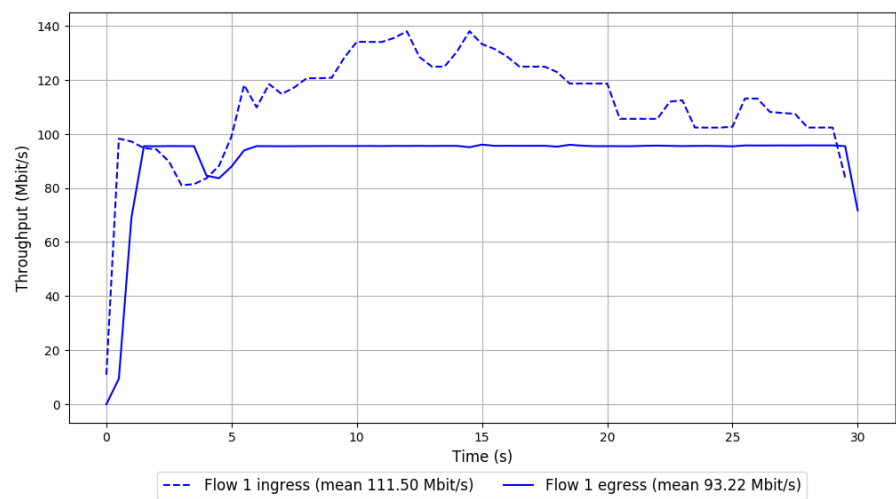


```
Run 1: Statistics of PCC-Expr

Start at: 2019-10-03 07:14:55
End at: 2019-10-03 07:15:26
Local clock offset: 0.269 ms
Remote clock offset: 7.802 ms

# Below is generated by plot.py at 2019-10-03 10:44:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.22 Mbit/s
95th percentile per-packet one-way delay: 666.134 ms
Loss rate: 16.58%
-- Flow 1:
Average throughput: 93.22 Mbit/s
95th percentile per-packet one-way delay: 666.134 ms
Loss rate: 16.58%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-10-03 08:04:33

End at: 2019-10-03 08:05:03

Local clock offset: 0.216 ms

Remote clock offset: 7.72 ms

Below is generated by plot.py at 2019-10-03 10:44:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.18 Mbit/s

95th percentile per-packet one-way delay: 666.846 ms

Loss rate: 10.32%

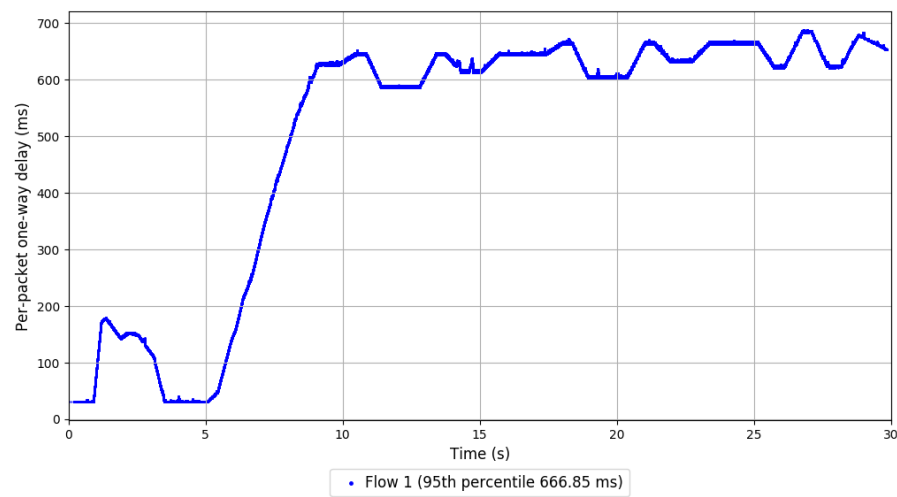
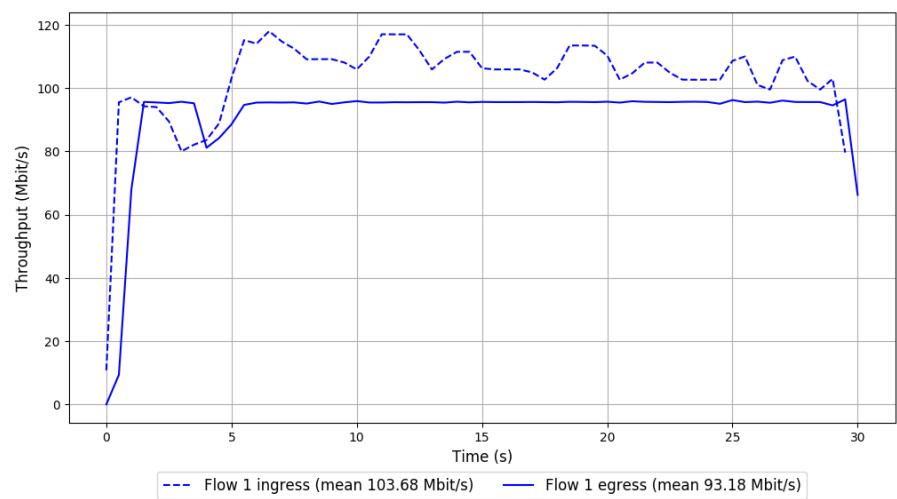
-- Flow 1:

Average throughput: 93.18 Mbit/s

95th percentile per-packet one-way delay: 666.846 ms

Loss rate: 10.32%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-10-03 08:48:37

End at: 2019-10-03 08:49:07

Local clock offset: 0.204 ms

Remote clock offset: 7.145 ms

Below is generated by plot.py at 2019-10-03 10:44:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.48 Mbit/s

95th percentile per-packet one-way delay: 445.570 ms

Loss rate: 0.95%

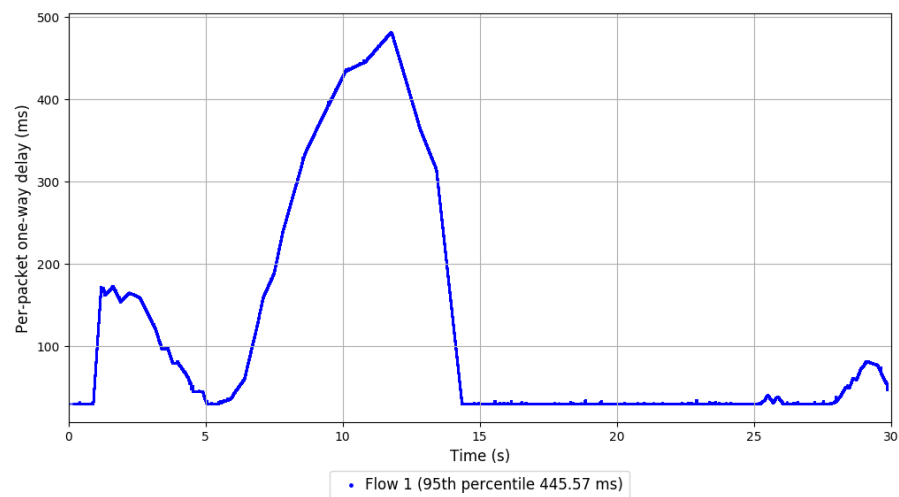
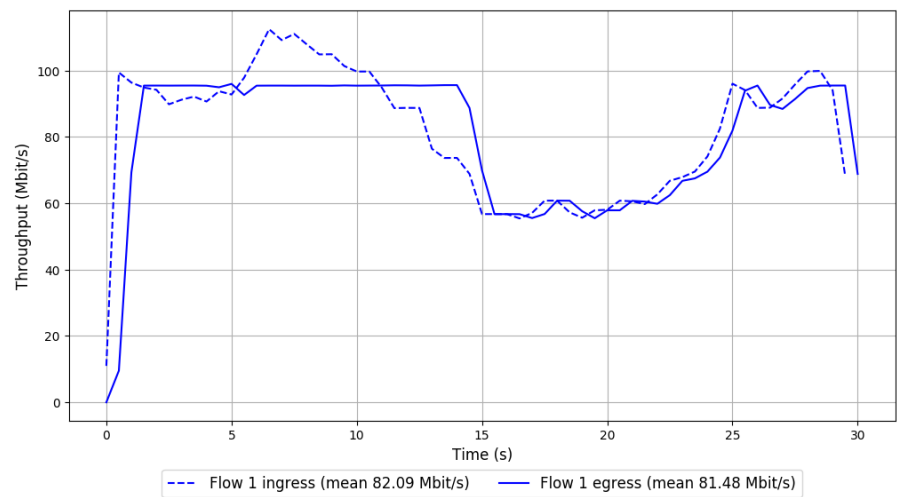
-- Flow 1:

Average throughput: 81.48 Mbit/s

95th percentile per-packet one-way delay: 445.570 ms

Loss rate: 0.95%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-10-03 09:26:42

End at: 2019-10-03 09:27:12

Local clock offset: 0.126 ms

Remote clock offset: 7.383 ms

Below is generated by plot.py at 2019-10-03 10:44:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.10 Mbit/s

95th percentile per-packet one-way delay: 507.965 ms

Loss rate: 14.75%

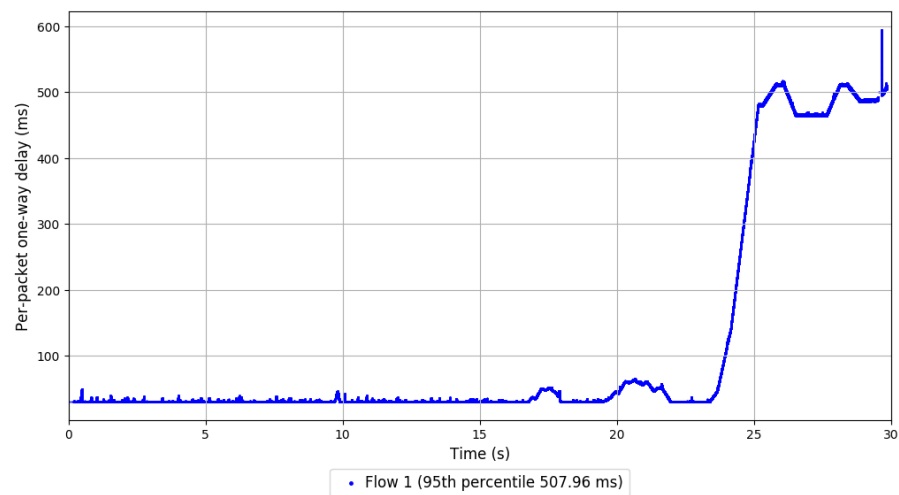
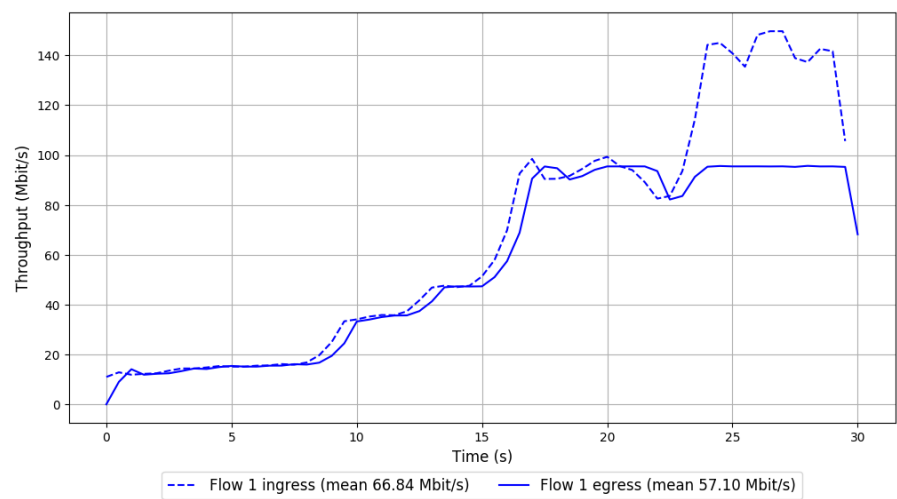
-- Flow 1:

Average throughput: 57.10 Mbit/s

95th percentile per-packet one-way delay: 507.965 ms

Loss rate: 14.75%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-10-03 10:06:02

End at: 2019-10-03 10:06:32

Local clock offset: 0.204 ms

Remote clock offset: 7.898 ms

Below is generated by plot.py at 2019-10-03 10:44:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.42 Mbit/s

95th percentile per-packet one-way delay: 595.749 ms

Loss rate: 17.99%

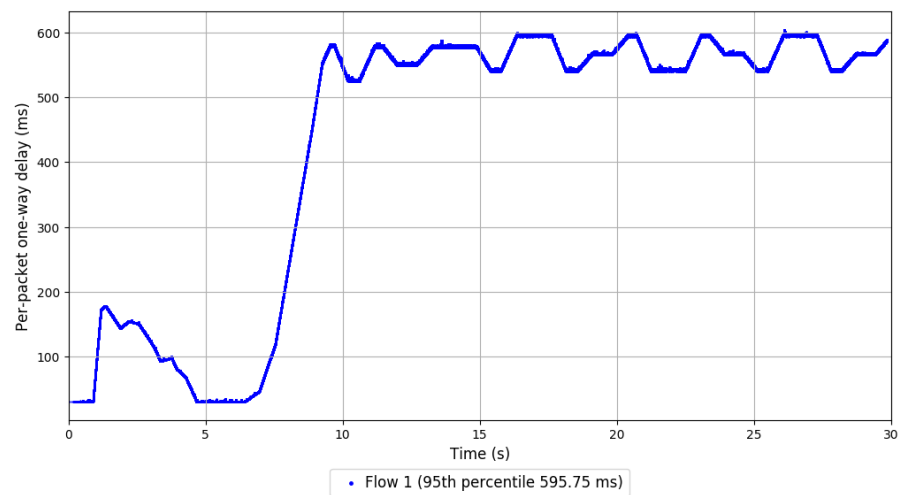
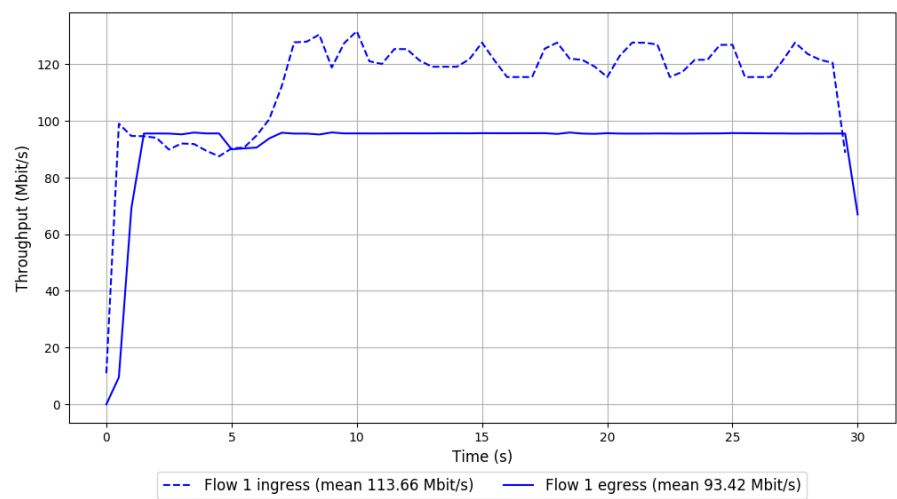
-- Flow 1:

Average throughput: 93.42 Mbit/s

95th percentile per-packet one-way delay: 595.749 ms

Loss rate: 17.99%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-10-03 07:34:19

End at: 2019-10-03 07:34:50

Local clock offset: 0.3 ms

Remote clock offset: 7.585 ms

Below is generated by plot.py at 2019-10-03 10:44:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.93 Mbit/s

95th percentile per-packet one-way delay: 40.397 ms

Loss rate: 0.28%

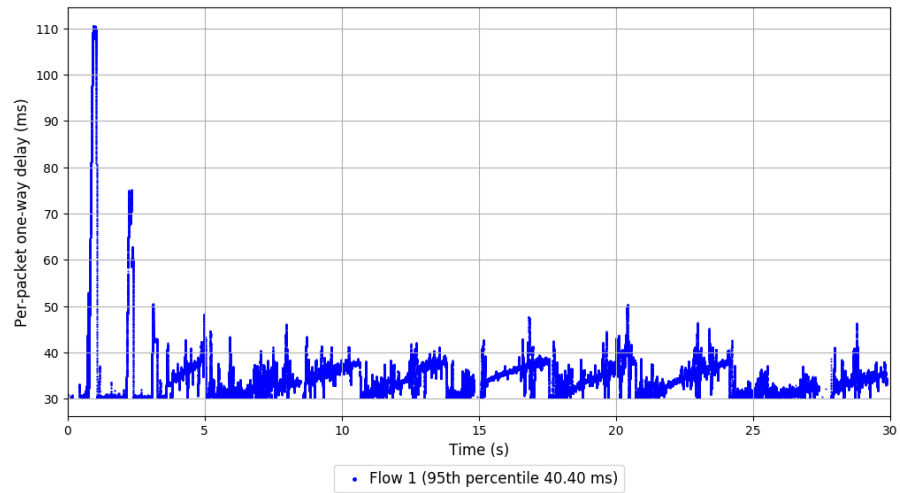
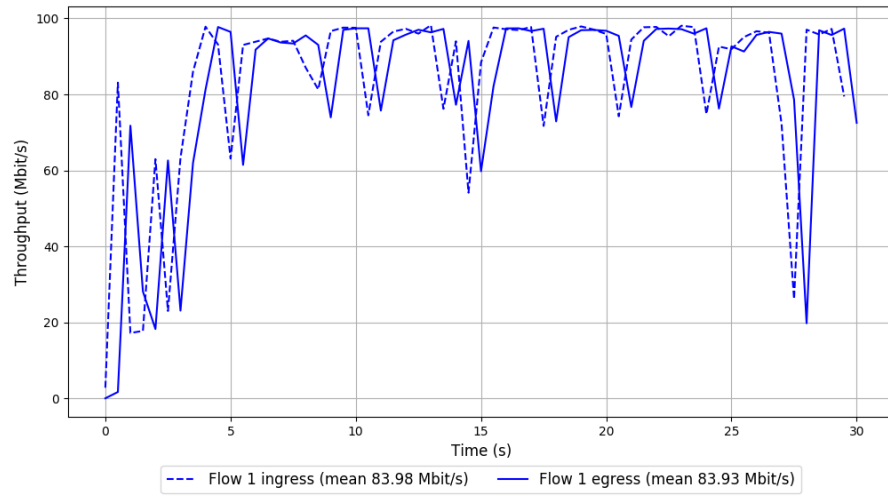
-- Flow 1:

Average throughput: 83.93 Mbit/s

95th percentile per-packet one-way delay: 40.397 ms

Loss rate: 0.28%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-10-03 08:22:33

End at: 2019-10-03 08:23:03

Local clock offset: 0.124 ms

Remote clock offset: 7.812 ms

Below is generated by plot.py at 2019-10-03 10:44:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.20 Mbit/s

95th percentile per-packet one-way delay: 38.373 ms

Loss rate: 0.10%

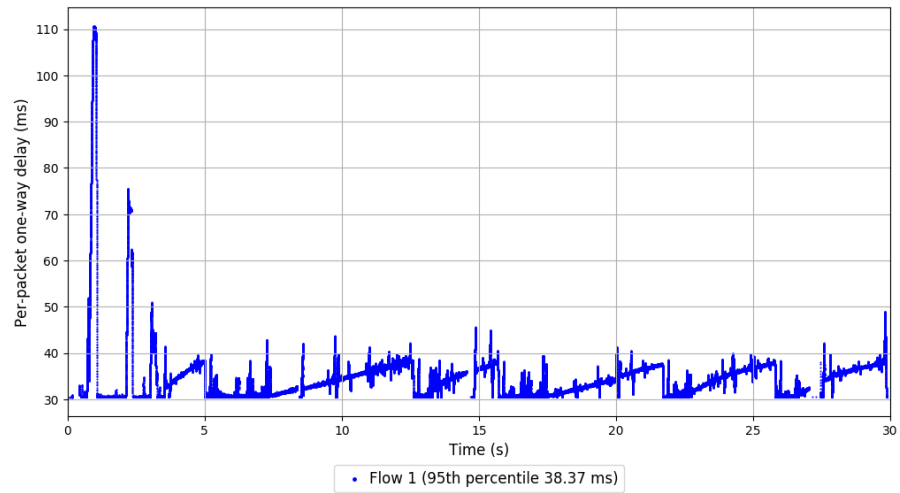
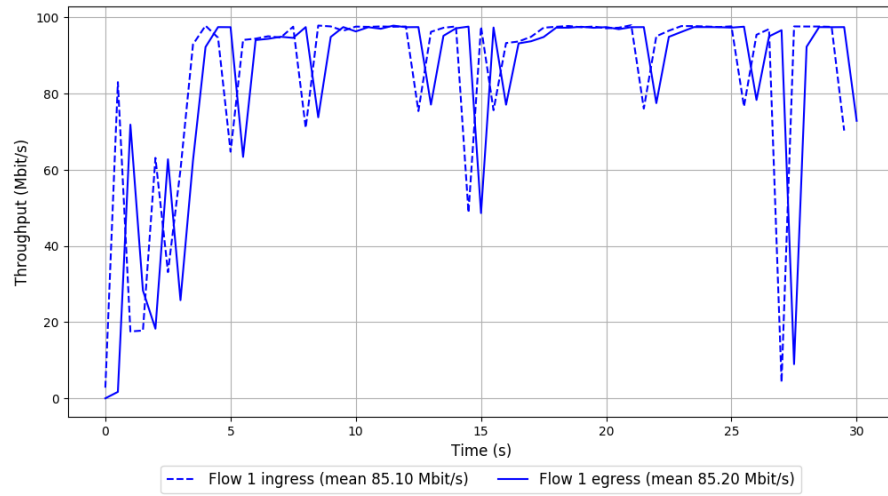
-- Flow 1:

Average throughput: 85.20 Mbit/s

95th percentile per-packet one-way delay: 38.373 ms

Loss rate: 0.10%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-10-03 09:02:19

End at: 2019-10-03 09:02:49

Local clock offset: 0.165 ms

Remote clock offset: 7.197 ms

Below is generated by plot.py at 2019-10-03 10:44:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.01 Mbit/s

95th percentile per-packet one-way delay: 49.715 ms

Loss rate: 0.28%

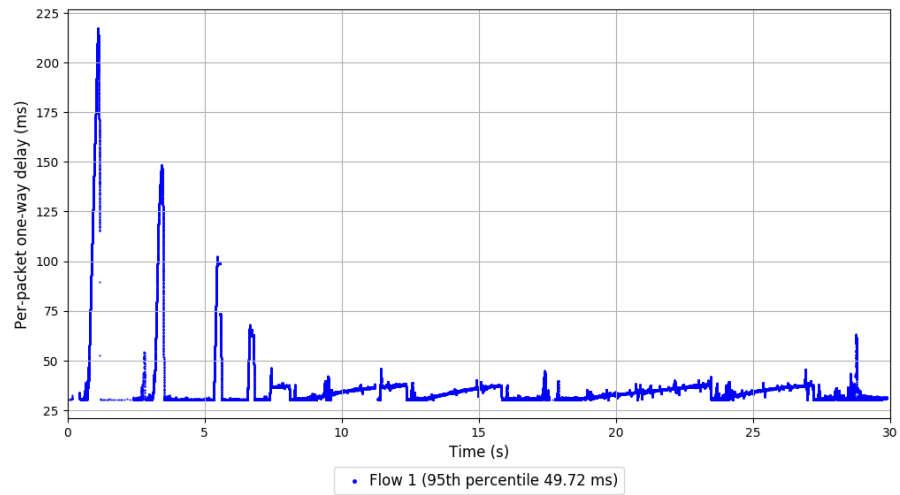
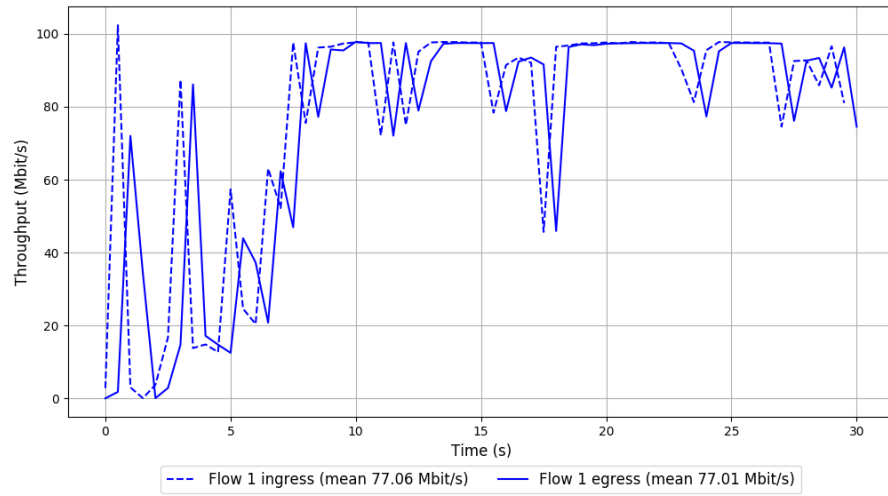
-- Flow 1:

Average throughput: 77.01 Mbit/s

95th percentile per-packet one-way delay: 49.715 ms

Loss rate: 0.28%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-10-03 09:42:07

End at: 2019-10-03 09:42:37

Local clock offset: 0.133 ms

Remote clock offset: 7.436 ms

Below is generated by plot.py at 2019-10-03 10:44:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.87 Mbit/s

95th percentile per-packet one-way delay: 47.921 ms

Loss rate: 0.29%

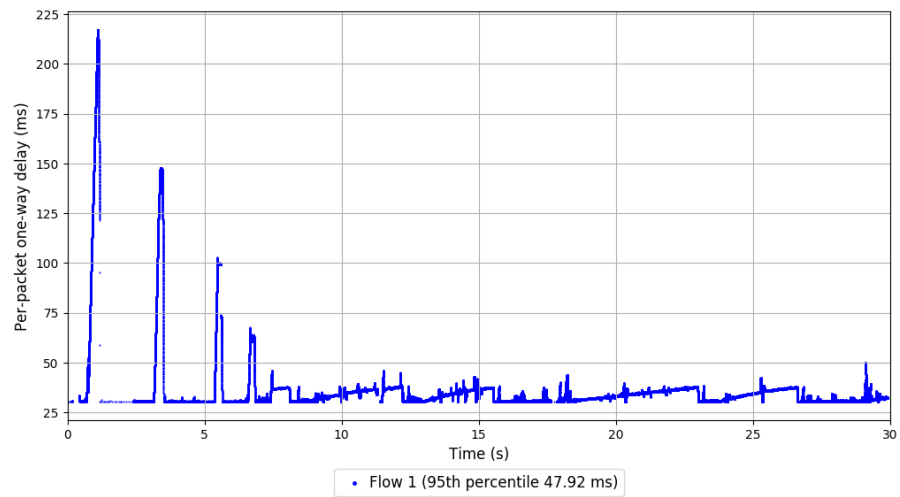
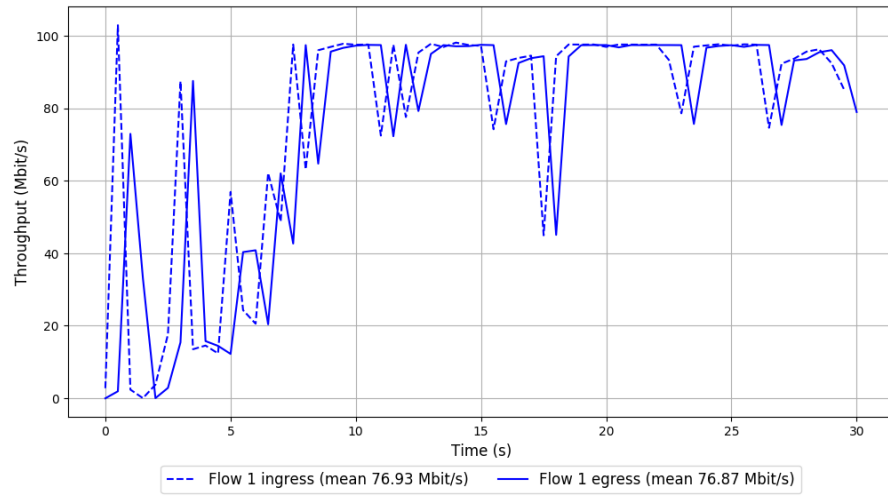
-- Flow 1:

Average throughput: 76.87 Mbit/s

95th percentile per-packet one-way delay: 47.921 ms

Loss rate: 0.29%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-10-03 10:20:06

End at: 2019-10-03 10:20:36

Local clock offset: 0.271 ms

Remote clock offset: 7.493 ms

Below is generated by plot.py at 2019-10-03 10:45:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.29 Mbit/s

95th percentile per-packet one-way delay: 39.425 ms

Loss rate: 0.25%

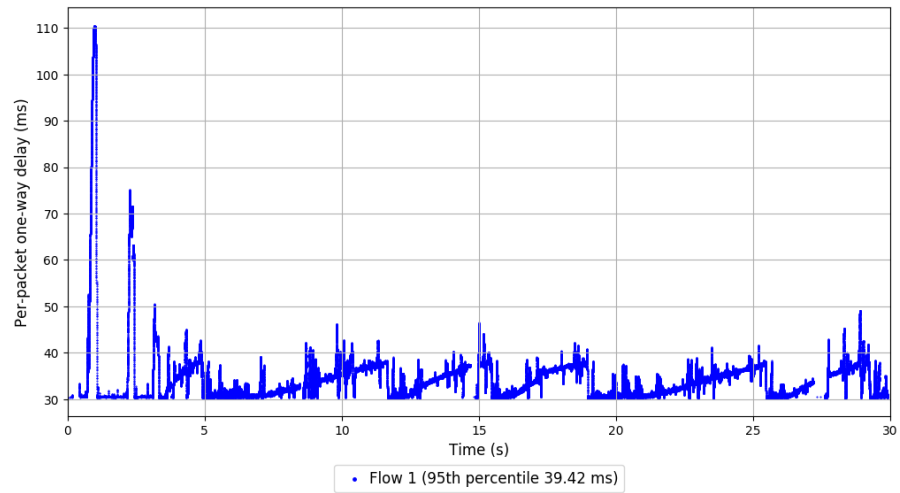
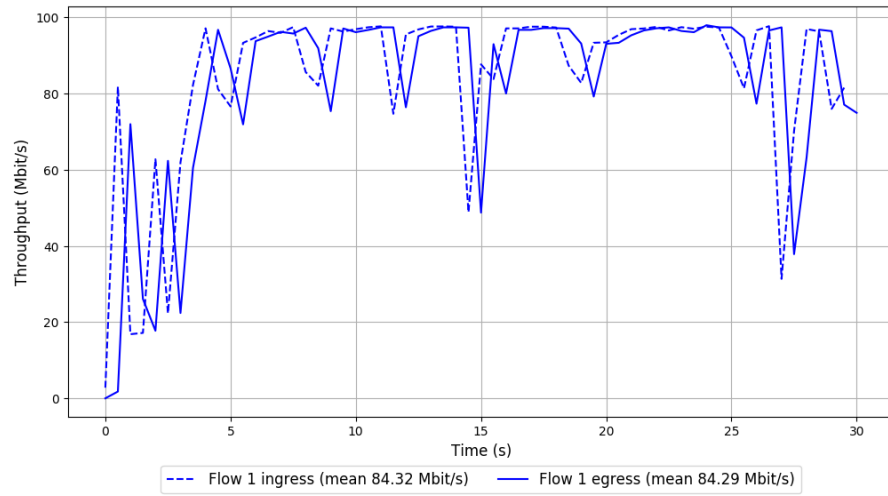
-- Flow 1:

Average throughput: 84.29 Mbit/s

95th percentile per-packet one-way delay: 39.425 ms

Loss rate: 0.25%

Run 5: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2019-10-03 07:29:10

End at: 2019-10-03 07:29:40

Local clock offset: 0.251 ms

Remote clock offset: 7.551 ms

Below is generated by plot.py at 2019-10-03 10:45:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.709 ms

Loss rate: 0.13%

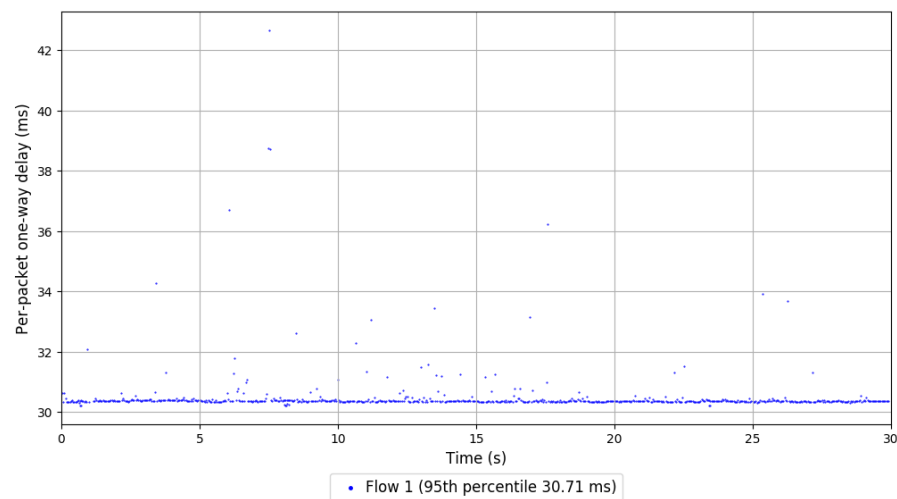
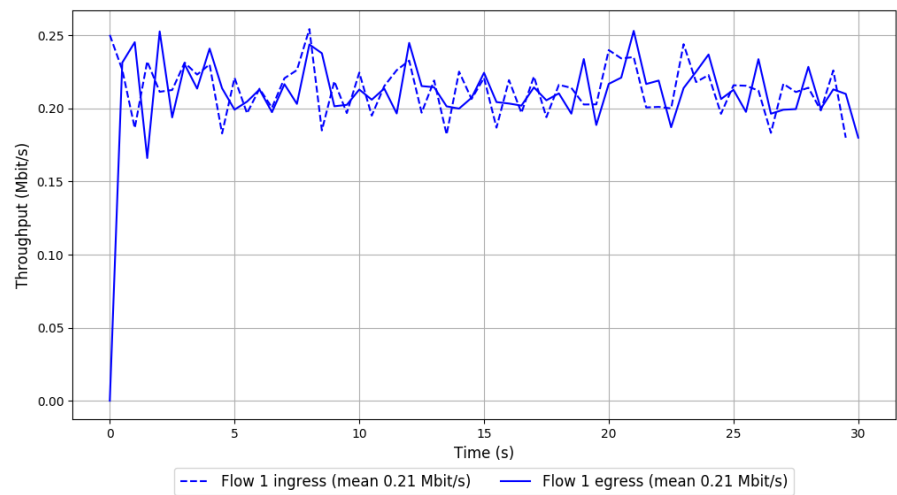
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.709 ms

Loss rate: 0.13%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-10-03 08:17:34

End at: 2019-10-03 08:18:04

Local clock offset: 0.131 ms

Remote clock offset: 7.852 ms

Below is generated by plot.py at 2019-10-03 10:45:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 32.183 ms

Loss rate: 0.26%

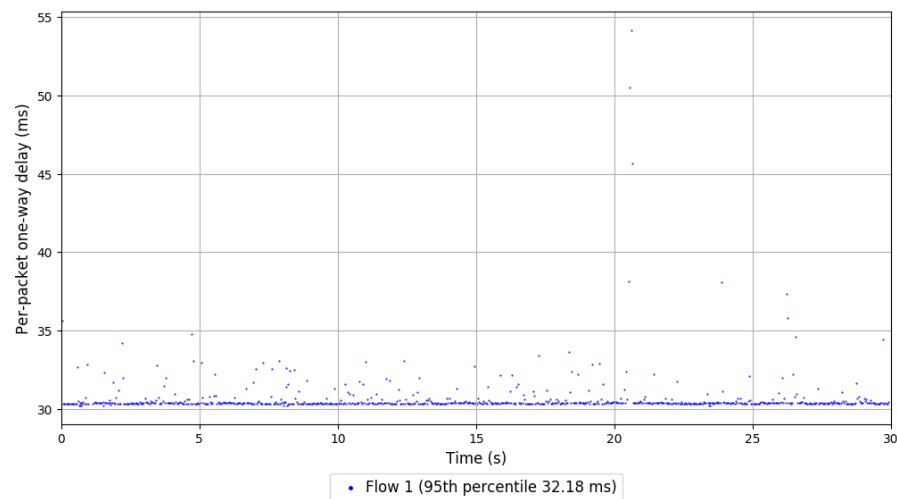
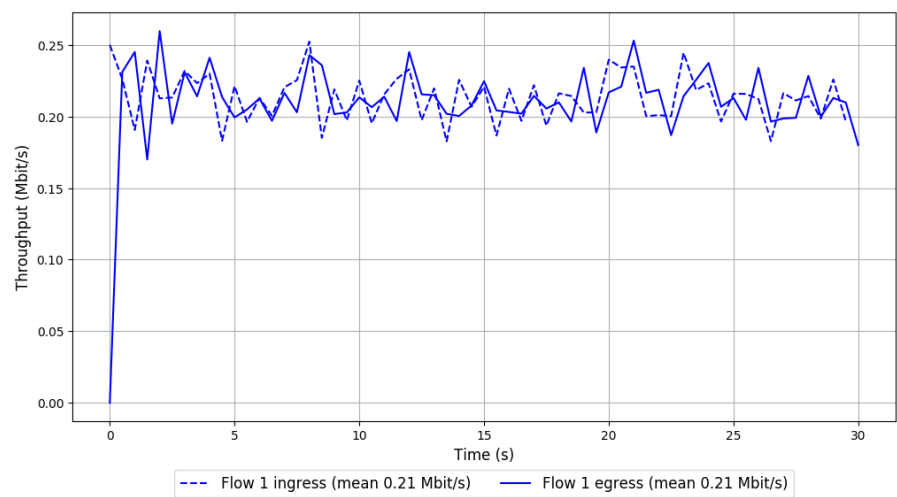
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 32.183 ms

Loss rate: 0.26%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-10-03 08:57:54

End at: 2019-10-03 08:58:24

Local clock offset: 0.191 ms

Remote clock offset: 7.16 ms

Below is generated by plot.py at 2019-10-03 10:45:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.762 ms

Loss rate: 0.26%

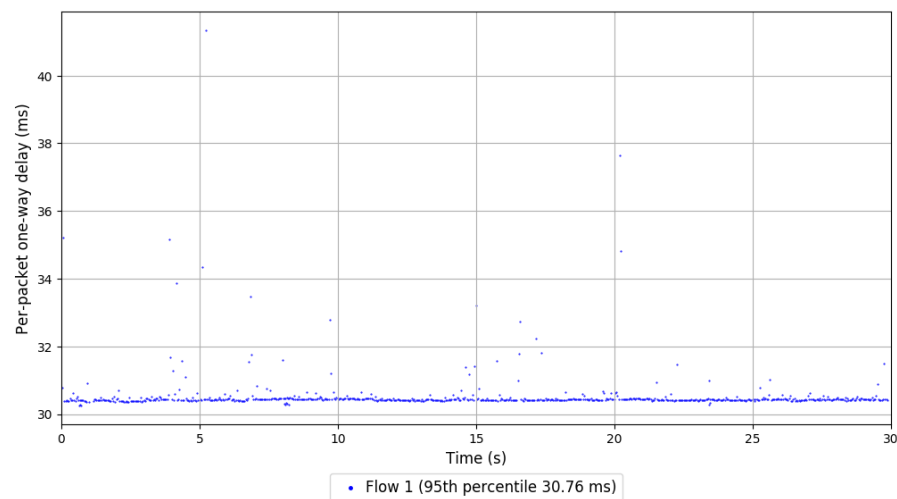
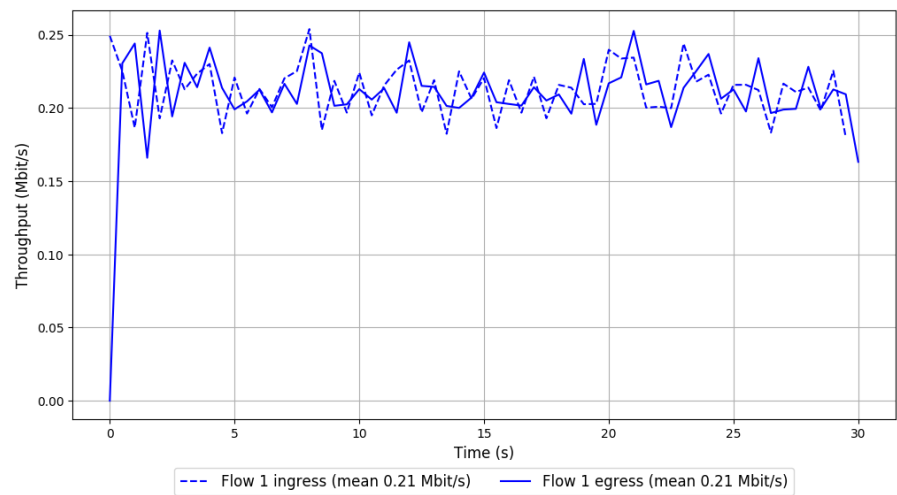
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.762 ms

Loss rate: 0.26%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-10-03 09:37:41

End at: 2019-10-03 09:38:11

Local clock offset: 0.111 ms

Remote clock offset: 7.415 ms

Below is generated by plot.py at 2019-10-03 10:45:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.711 ms

Loss rate: 0.26%

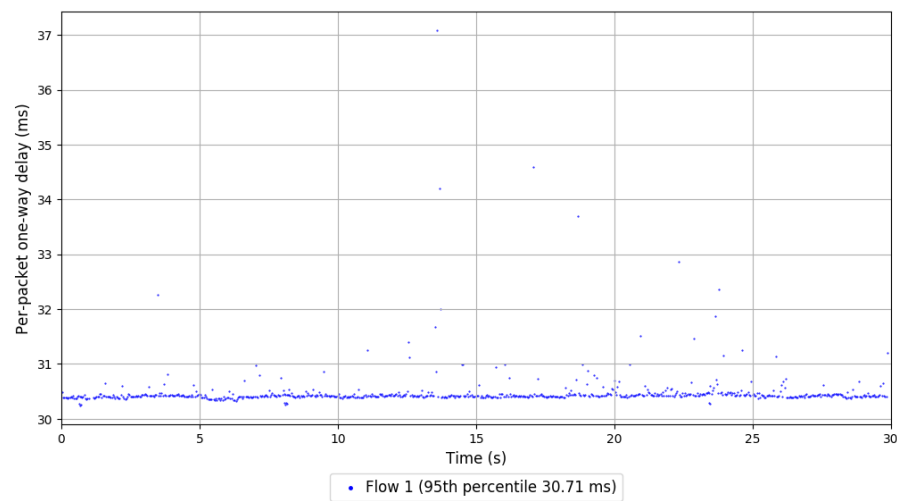
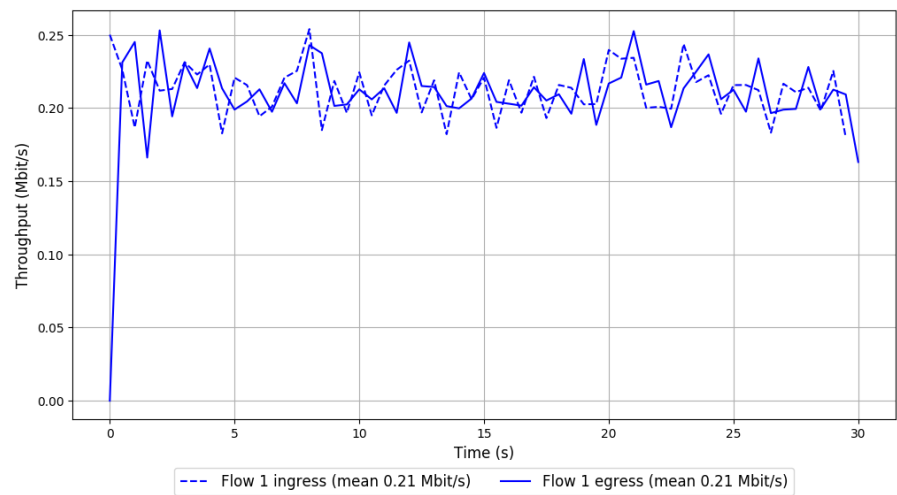
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.711 ms

Loss rate: 0.26%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-10-03 10:15:32

End at: 2019-10-03 10:16:02

Local clock offset: 0.252 ms

Remote clock offset: 7.736 ms

Below is generated by plot.py at 2019-10-03 10:45:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.833 ms

Loss rate: 0.26%

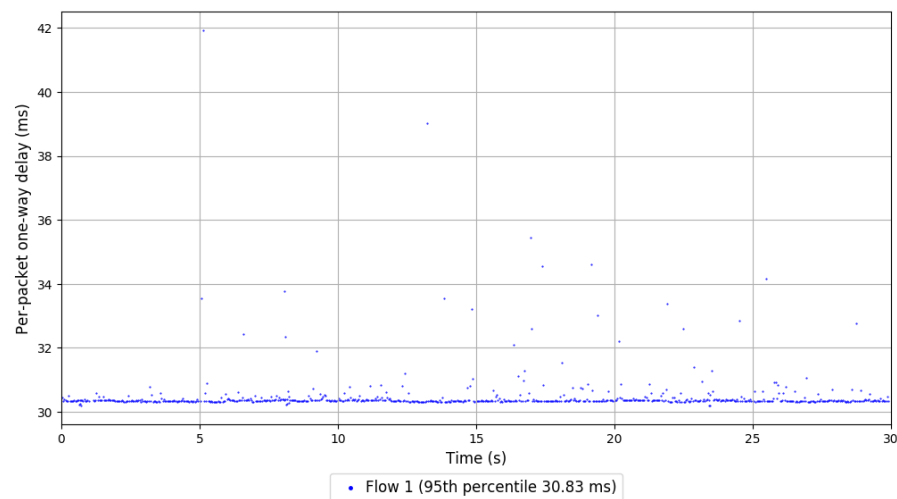
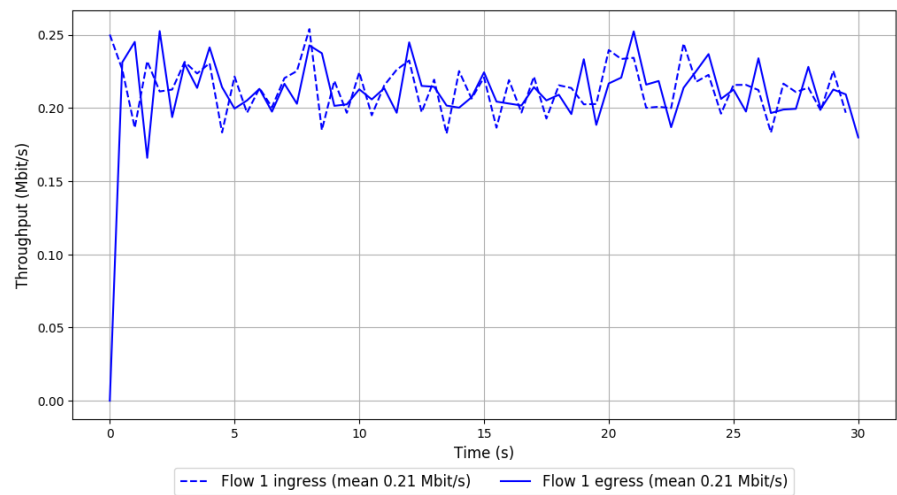
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.833 ms

Loss rate: 0.26%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-10-03 07:39:46

End at: 2019-10-03 07:40:16

Local clock offset: 0.285 ms

Remote clock offset: 7.564 ms

Below is generated by plot.py at 2019-10-03 10:45:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.05 Mbit/s

95th percentile per-packet one-way delay: 38.232 ms

Loss rate: 0.19%

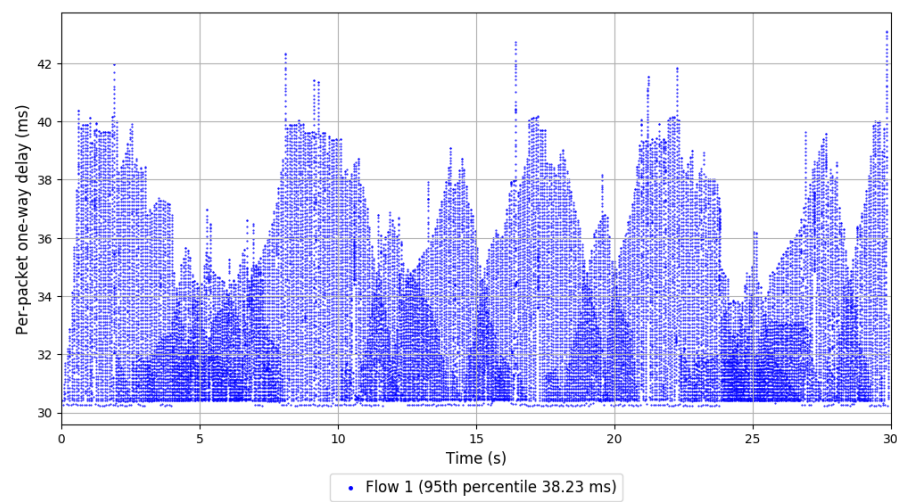
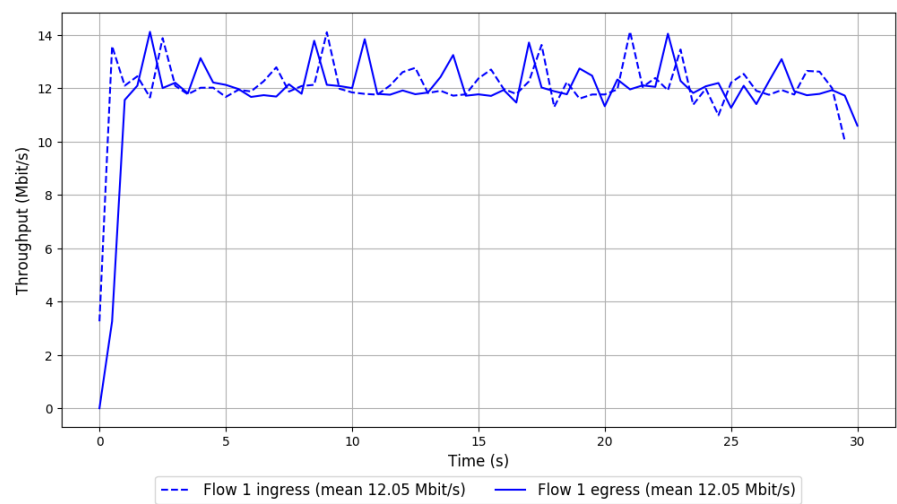
-- Flow 1:

Average throughput: 12.05 Mbit/s

95th percentile per-packet one-way delay: 38.232 ms

Loss rate: 0.19%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-10-03 08:28:26

End at: 2019-10-03 08:28:56

Local clock offset: 0.165 ms

Remote clock offset: 7.693 ms

Below is generated by plot.py at 2019-10-03 10:45:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.13 Mbit/s

95th percentile per-packet one-way delay: 38.542 ms

Loss rate: 0.28%

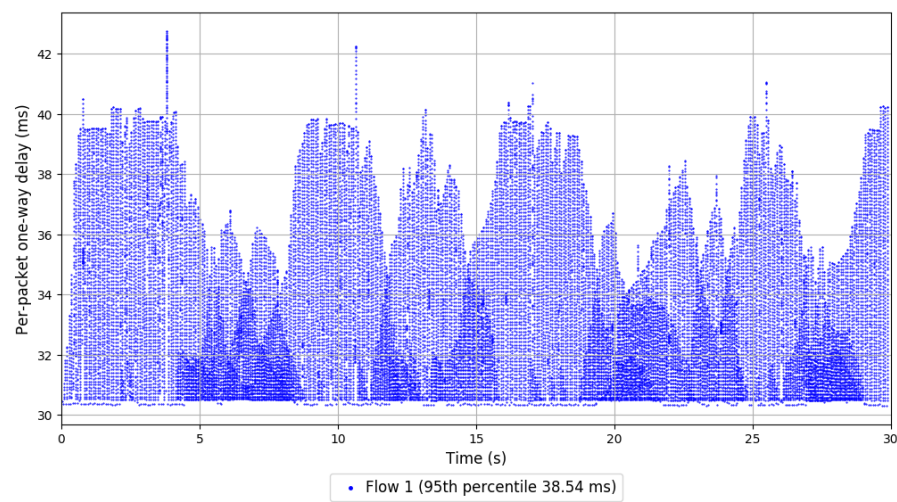
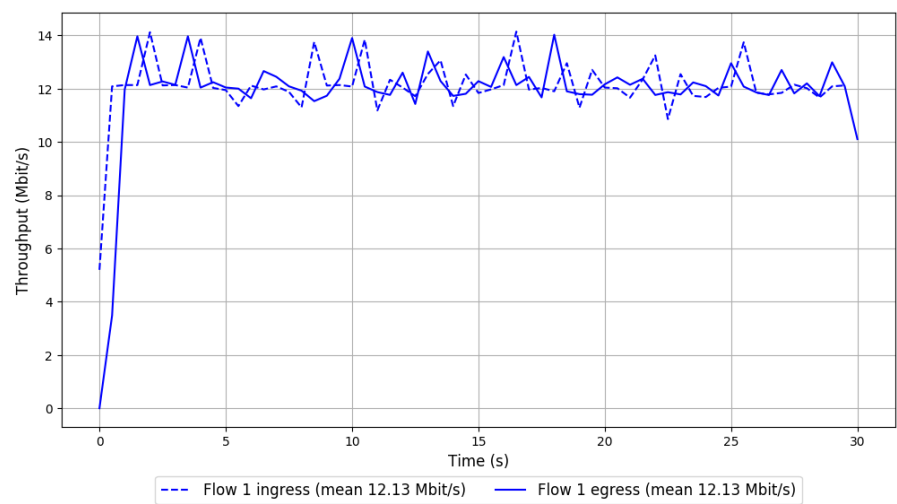
-- Flow 1:

Average throughput: 12.13 Mbit/s

95th percentile per-packet one-way delay: 38.542 ms

Loss rate: 0.28%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-10-03 09:06:56

End at: 2019-10-03 09:07:26

Local clock offset: 0.192 ms

Remote clock offset: 7.224 ms

Below is generated by plot.py at 2019-10-03 10:45:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.94 Mbit/s

95th percentile per-packet one-way delay: 38.028 ms

Loss rate: 0.28%

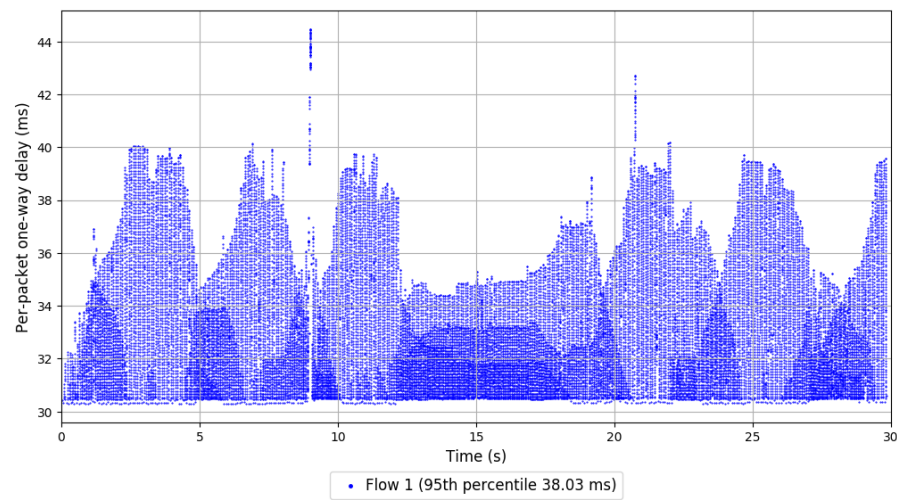
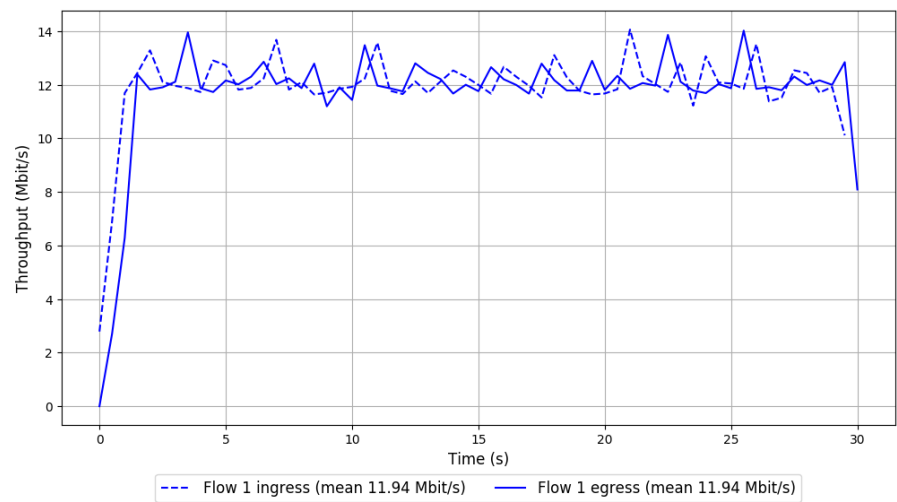
-- Flow 1:

Average throughput: 11.94 Mbit/s

95th percentile per-packet one-way delay: 38.028 ms

Loss rate: 0.28%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-10-03 09:46:26

End at: 2019-10-03 09:46:56

Local clock offset: 0.081 ms

Remote clock offset: 7.745 ms

Below is generated by plot.py at 2019-10-03 10:45:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.00 Mbit/s

95th percentile per-packet one-way delay: 37.796 ms

Loss rate: 0.24%

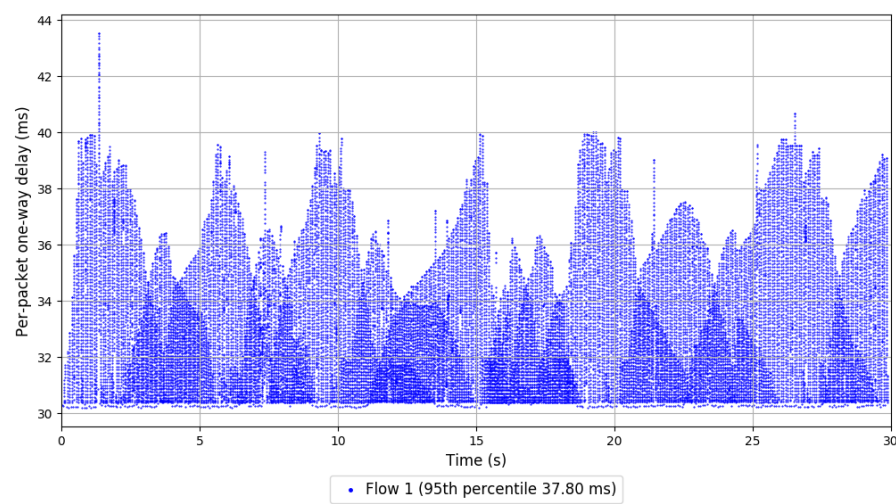
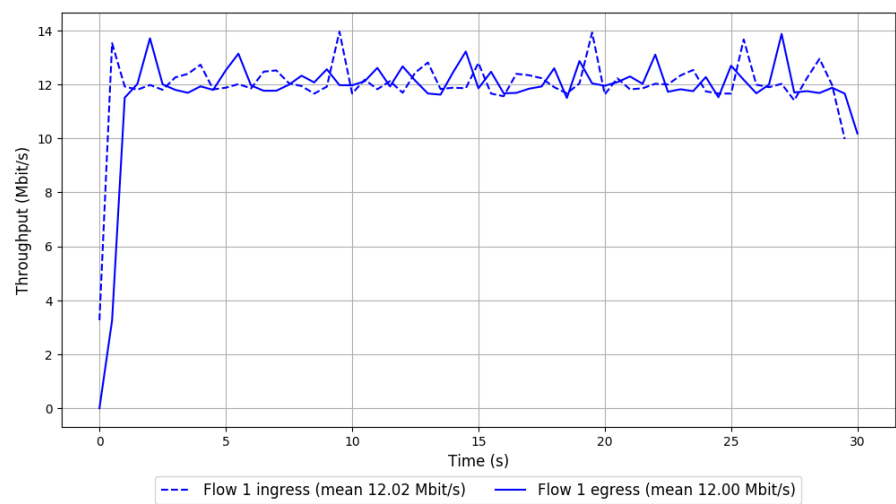
-- Flow 1:

Average throughput: 12.00 Mbit/s

95th percentile per-packet one-way delay: 37.796 ms

Loss rate: 0.24%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-10-03 10:24:56

End at: 2019-10-03 10:25:26

Local clock offset: 0.301 ms

Remote clock offset: 7.447 ms

Below is generated by plot.py at 2019-10-03 10:45:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.06 Mbit/s

95th percentile per-packet one-way delay: 38.828 ms

Loss rate: 0.20%

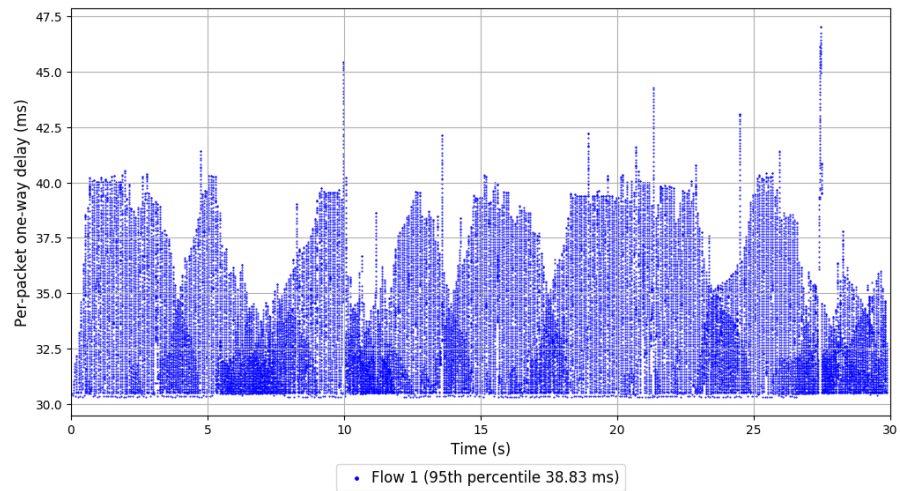
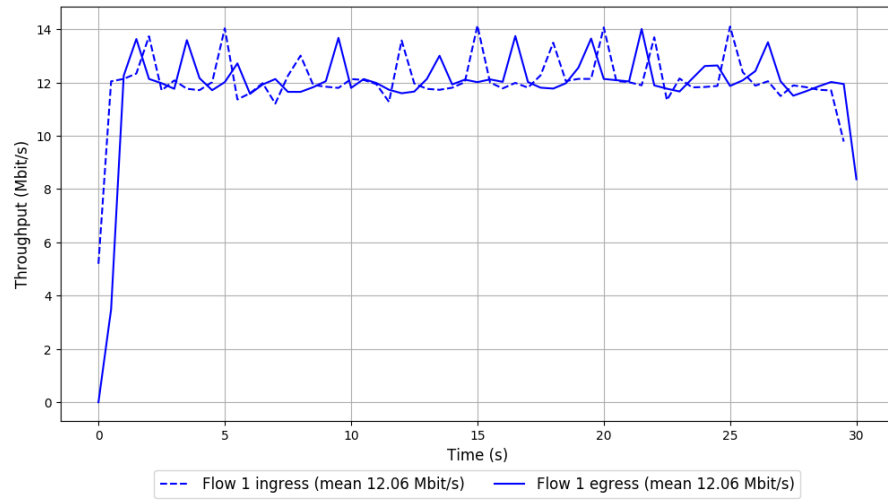
-- Flow 1:

Average throughput: 12.06 Mbit/s

95th percentile per-packet one-way delay: 38.828 ms

Loss rate: 0.20%

Run 5: Report of Sprout — Data Link

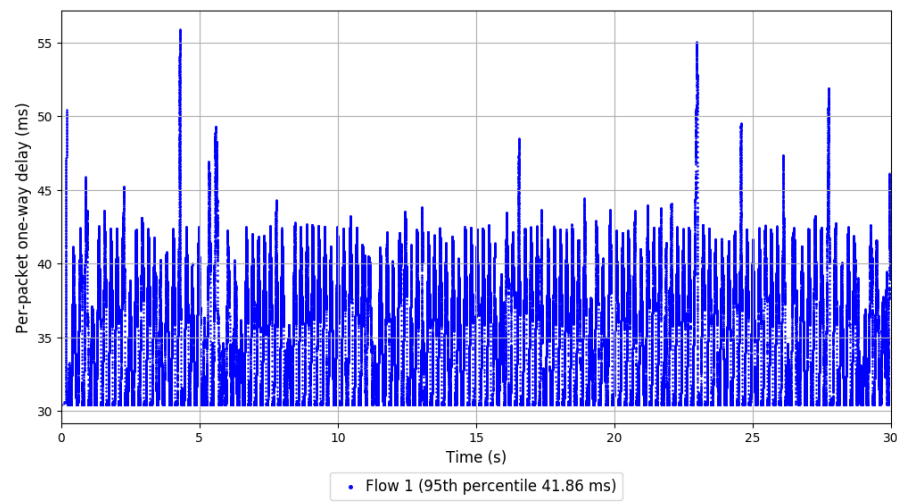
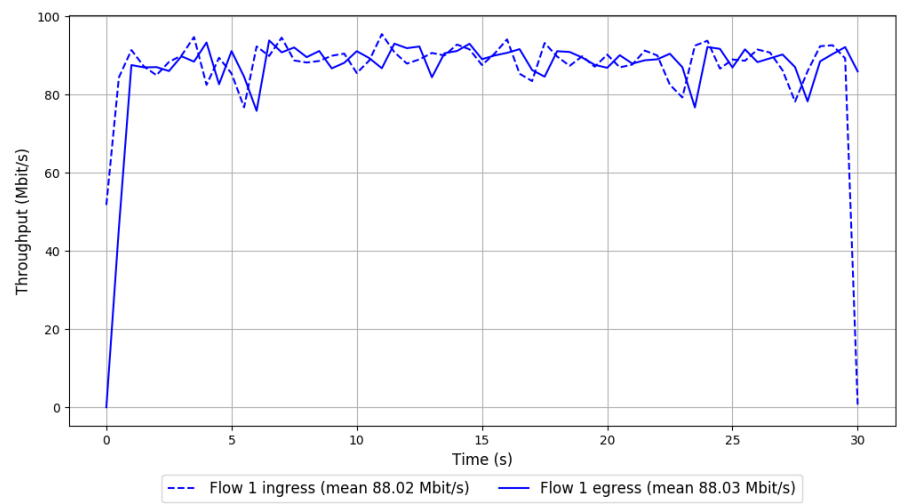


```
Run 1: Statistics of TaoVA-100x

Start at: 2019-10-03 07:42:49
End at: 2019-10-03 07:43:19
Local clock offset: 0.286 ms
Remote clock offset: 7.497 ms

# Below is generated by plot.py at 2019-10-03 10:46:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.03 Mbit/s
95th percentile per-packet one-way delay: 41.860 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 88.03 Mbit/s
95th percentile per-packet one-way delay: 41.860 ms
Loss rate: 0.21%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-10-03 08:31:33

End at: 2019-10-03 08:32:03

Local clock offset: 0.174 ms

Remote clock offset: 7.619 ms

Below is generated by plot.py at 2019-10-03 10:46:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.11 Mbit/s

95th percentile per-packet one-way delay: 41.581 ms

Loss rate: 0.24%

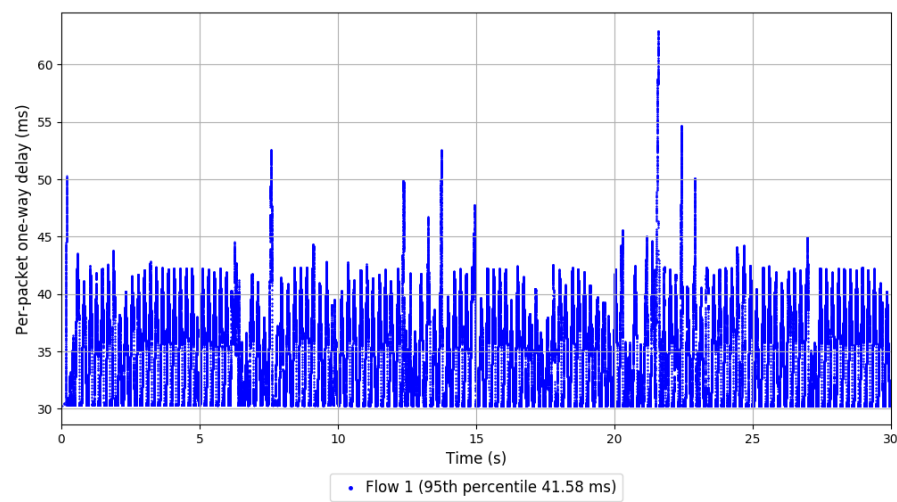
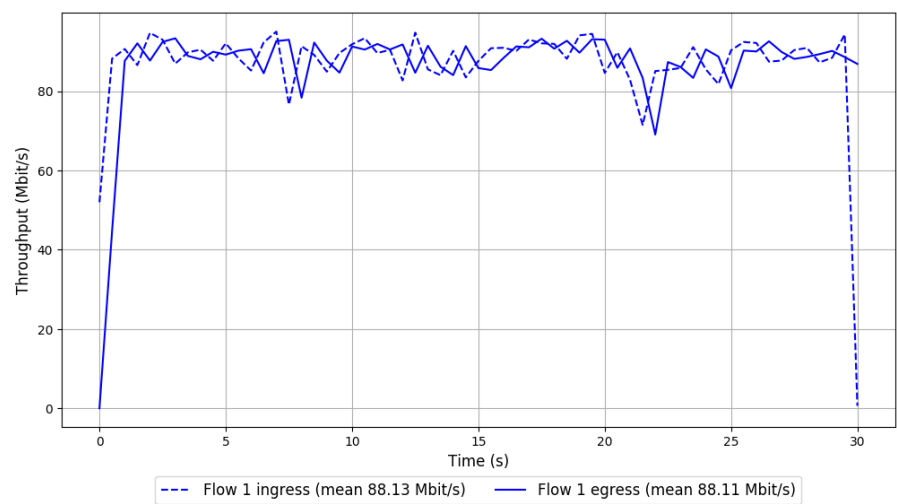
-- Flow 1:

Average throughput: 88.11 Mbit/s

95th percentile per-packet one-way delay: 41.581 ms

Loss rate: 0.24%

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



Run 3: Statistics of TaoVA-100x

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

End at: 2019-10-03 09:10:40

Local clock offset: 0.113 ms

Remote clock offset: 7.264 ms

Below is generated by plot.py at 2019-10-03 10:46:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.13 Mbit/s

95th percentile per-packet one-way delay: 41.490 ms

Loss rate: 0.25%

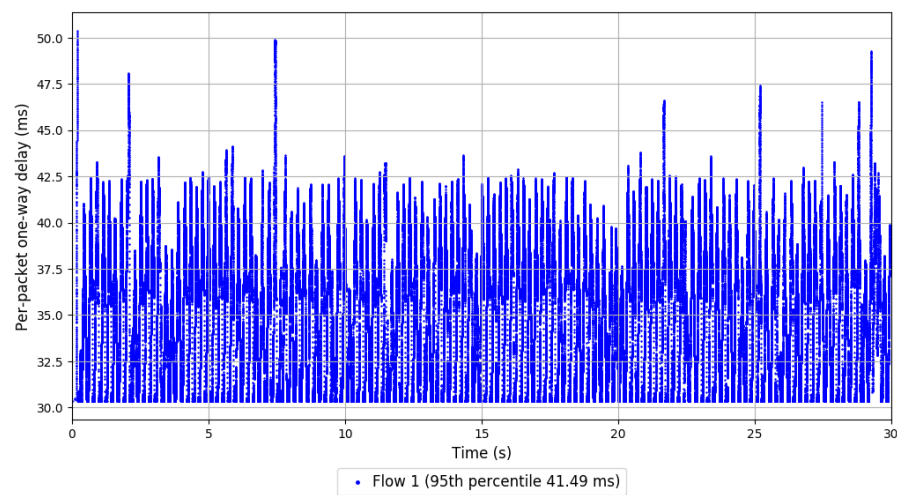
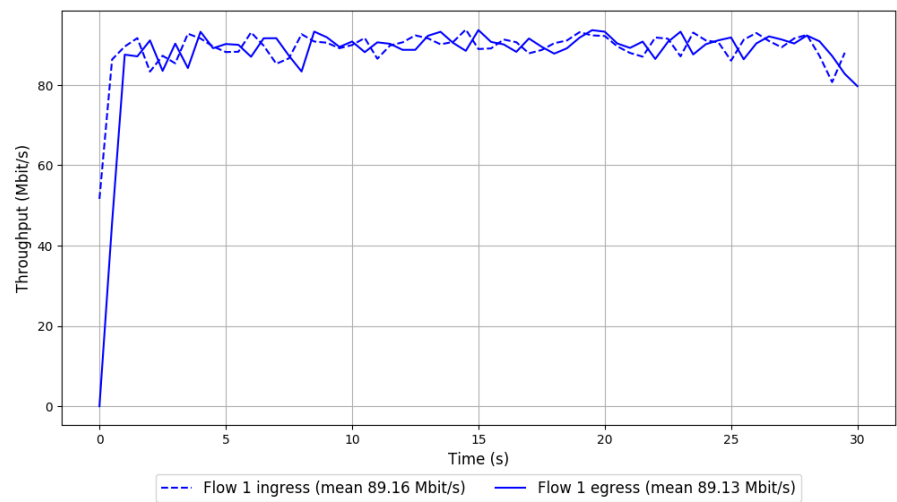
-- Flow 1:

Average throughput: 89.13 Mbit/s

95th percentile per-packet one-way delay: 41.490 ms

Loss rate: 0.25%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-10-03 09:49:12

End at: 2019-10-03 09:49:42

Local clock offset: 0.092 ms

Remote clock offset: 7.753 ms

Below is generated by plot.py at 2019-10-03 10:46:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.49 Mbit/s

95th percentile per-packet one-way delay: 41.701 ms

Loss rate: 0.25%

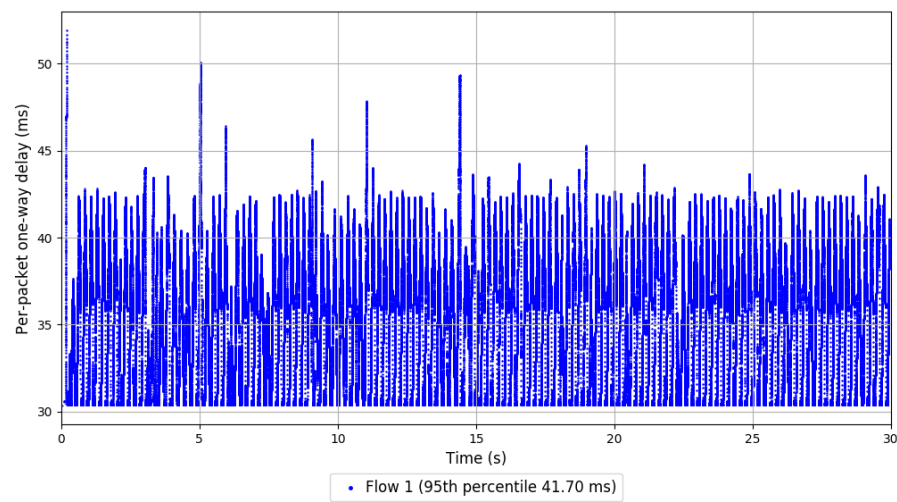
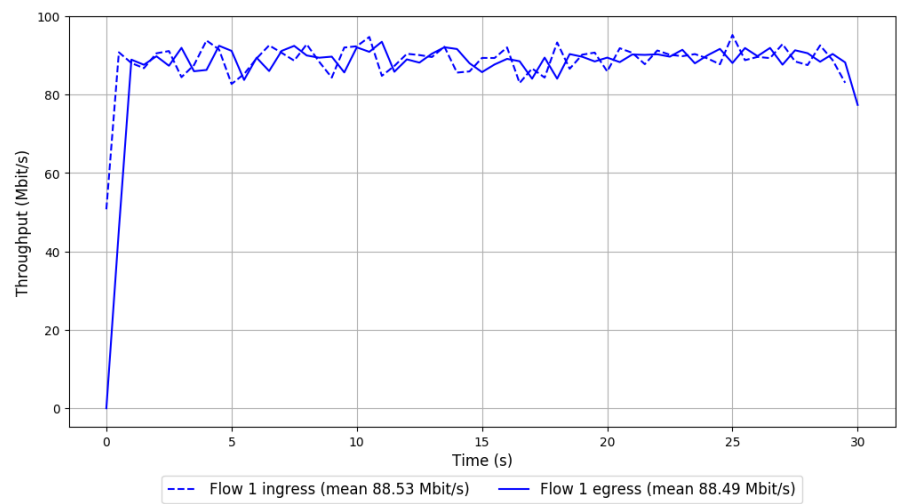
-- Flow 1:

Average throughput: 88.49 Mbit/s

95th percentile per-packet one-way delay: 41.701 ms

Loss rate: 0.25%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-10-03 10:27:45

End at: 2019-10-03 10:28:15

Local clock offset: 0.318 ms

Remote clock offset: 7.476 ms

Below is generated by plot.py at 2019-10-03 10:46:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.25 Mbit/s

95th percentile per-packet one-way delay: 41.522 ms

Loss rate: 0.22%

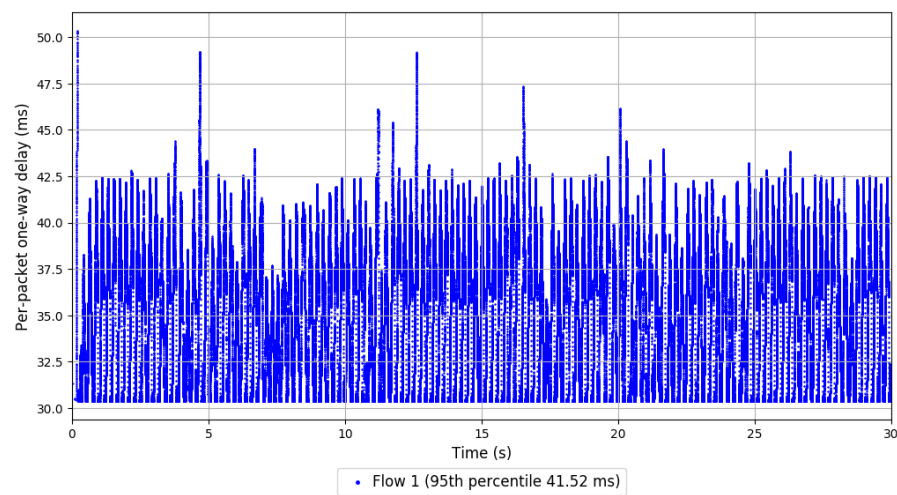
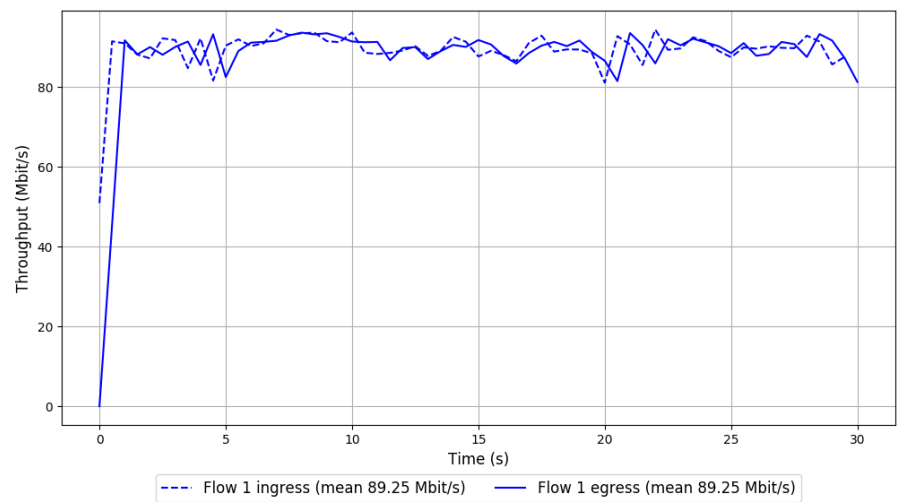
-- Flow 1:

Average throughput: 89.25 Mbit/s

95th percentile per-packet one-way delay: 41.522 ms

Loss rate: 0.22%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-10-03 07:21:00

End at: 2019-10-03 07:21:30

Local clock offset: 0.297 ms

Remote clock offset: 7.75 ms

Below is generated by plot.py at 2019-10-03 10:46:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.08 Mbit/s

95th percentile per-packet one-way delay: 34.238 ms

Loss rate: 0.29%

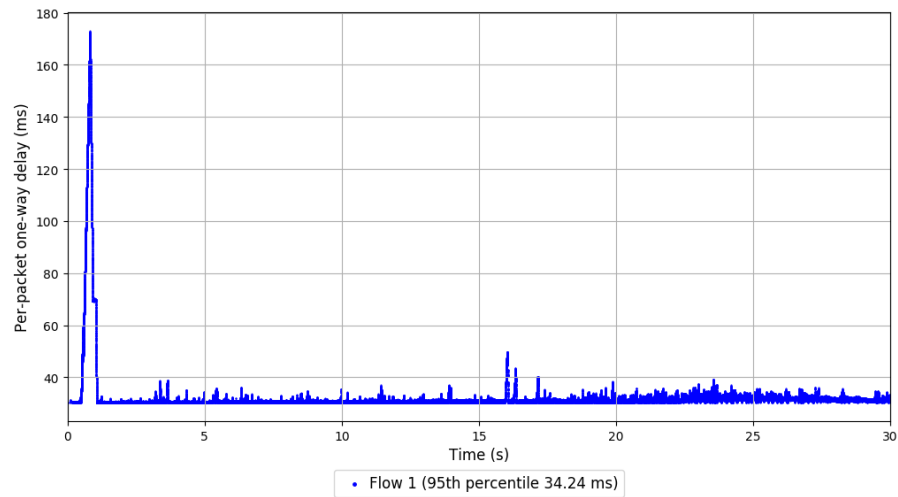
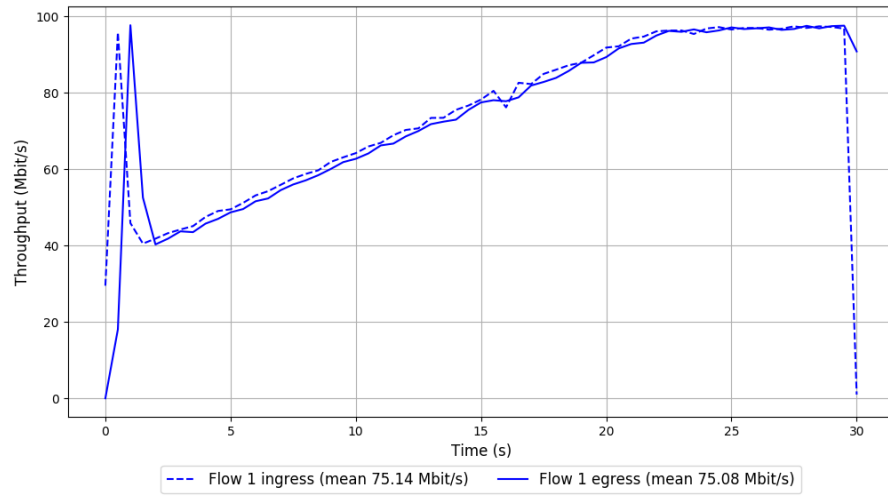
-- Flow 1:

Average throughput: 75.08 Mbit/s

95th percentile per-packet one-way delay: 34.238 ms

Loss rate: 0.29%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-10-03 08:09:21

End at: 2019-10-03 08:09:51

Local clock offset: 0.182 ms

Remote clock offset: 7.837 ms

Below is generated by plot.py at 2019-10-03 10:46:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.54 Mbit/s

95th percentile per-packet one-way delay: 34.730 ms

Loss rate: 0.29%

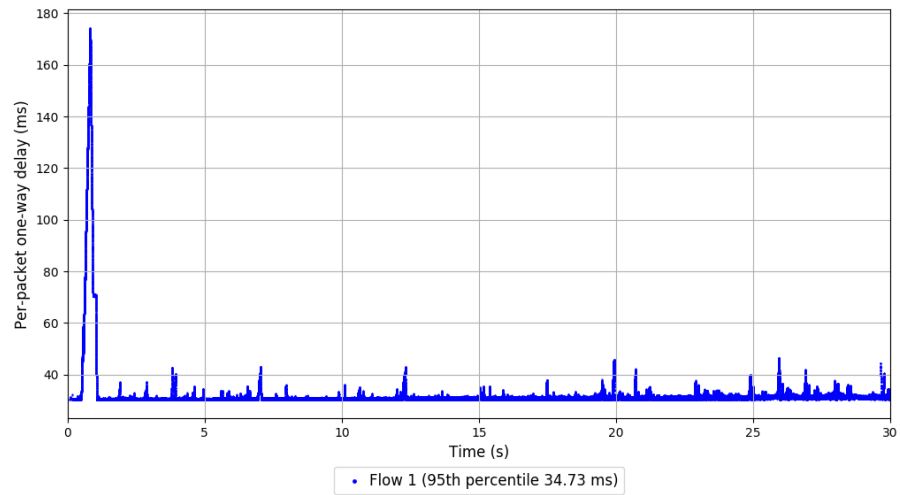
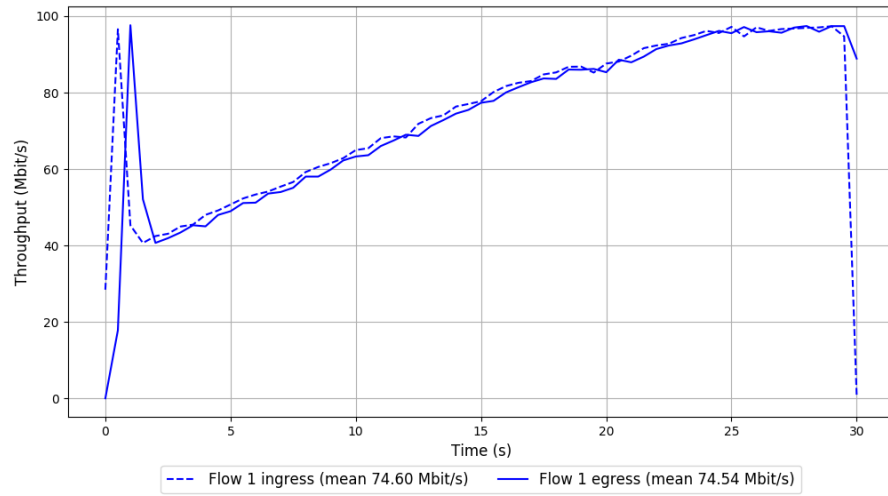
-- Flow 1:

Average throughput: 74.54 Mbit/s

95th percentile per-packet one-way delay: 34.730 ms

Loss rate: 0.29%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-10-03 08:51:40

End at: 2019-10-03 08:52:10

Local clock offset: 0.212 ms

Remote clock offset: 7.223 ms

Below is generated by plot.py at 2019-10-03 10:46:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.51 Mbit/s

95th percentile per-packet one-way delay: 32.808 ms

Loss rate: 0.25%

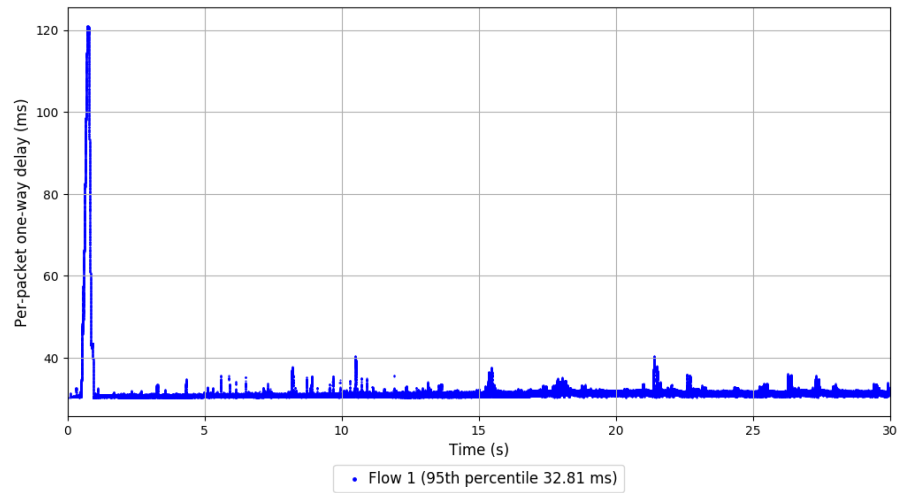
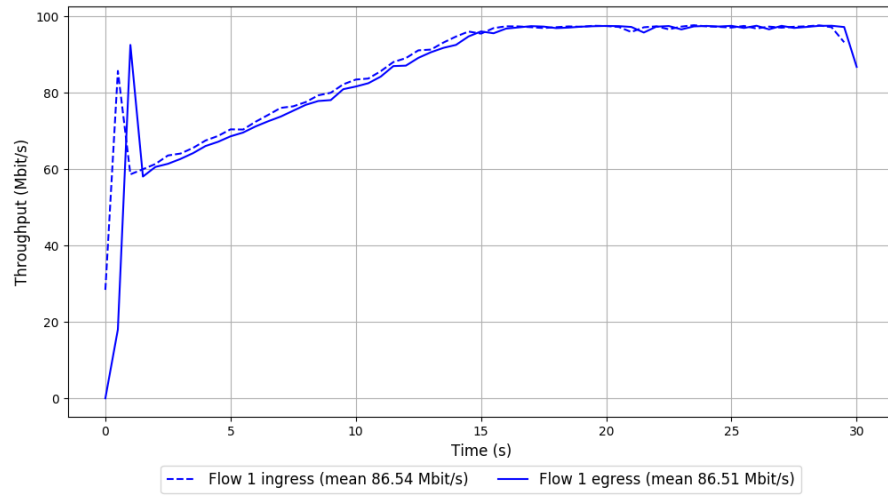
-- Flow 1:

Average throughput: 86.51 Mbit/s

95th percentile per-packet one-way delay: 32.808 ms

Loss rate: 0.25%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-10-03 09:30:23

End at: 2019-10-03 09:30:53

Local clock offset: 0.128 ms

Remote clock offset: 7.389 ms

Below is generated by plot.py at 2019-10-03 10:46:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.13 Mbit/s

95th percentile per-packet one-way delay: 34.744 ms

Loss rate: 0.25%

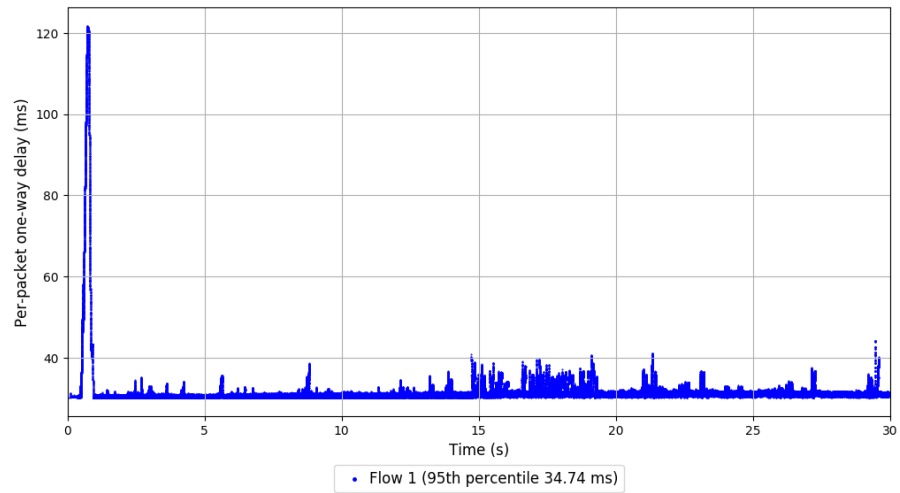
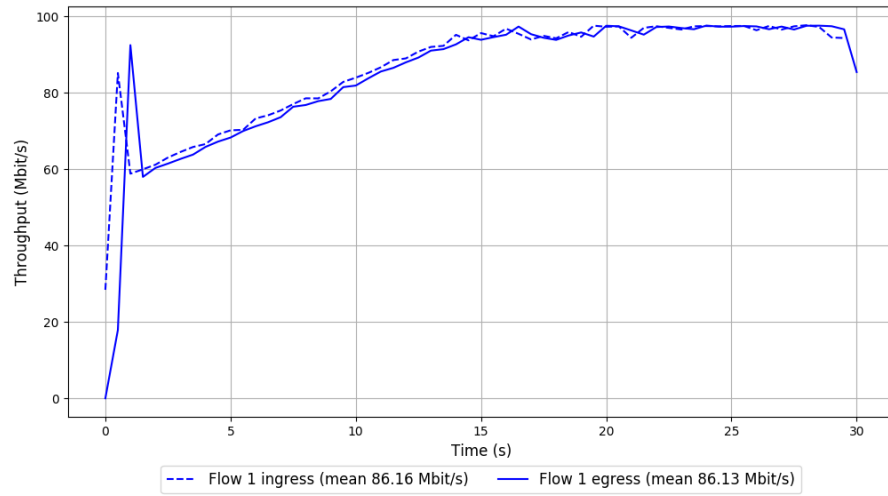
-- Flow 1:

Average throughput: 86.13 Mbit/s

95th percentile per-packet one-way delay: 34.744 ms

Loss rate: 0.25%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-10-03 10:09:29

End at: 2019-10-03 10:09:59

Local clock offset: 0.249 ms

Remote clock offset: 7.946 ms

Below is generated by plot.py at 2019-10-03 10:46:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.54 Mbit/s

95th percentile per-packet one-way delay: 34.451 ms

Loss rate: 0.29%

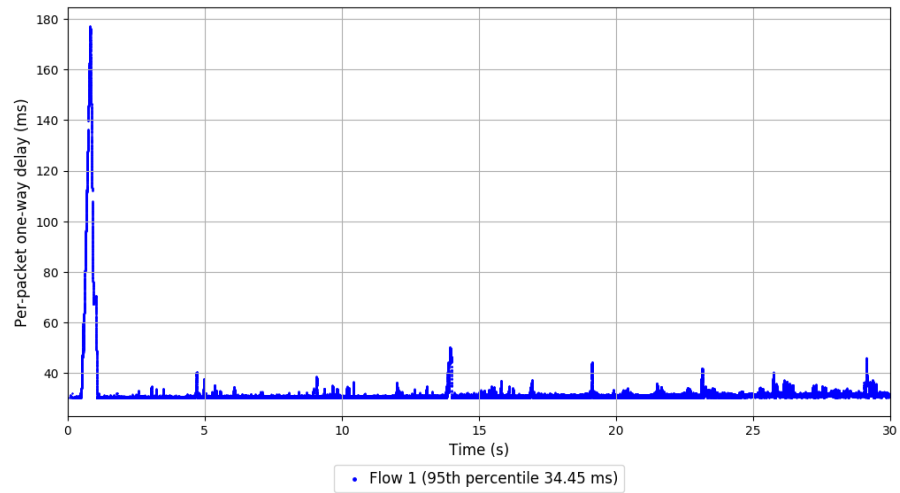
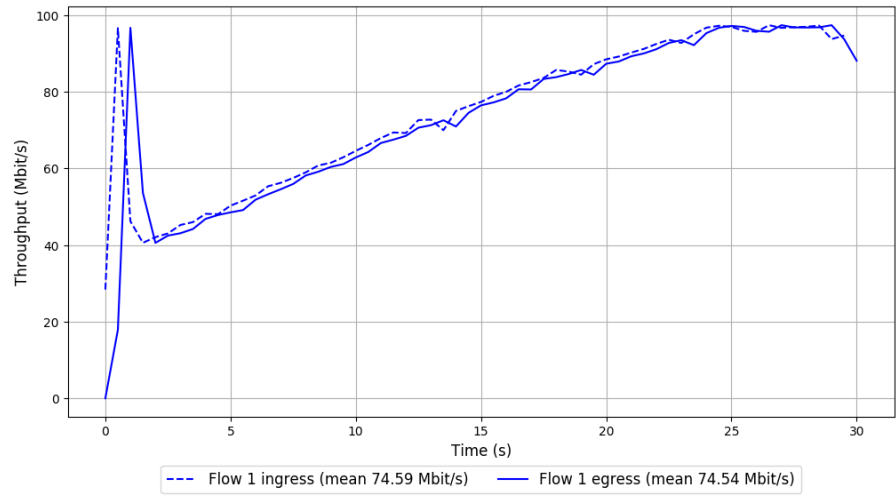
-- Flow 1:

Average throughput: 74.54 Mbit/s

95th percentile per-packet one-way delay: 34.451 ms

Loss rate: 0.29%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-10-03 07:22:44

End at: 2019-10-03 07:23:14

Local clock offset: 0.315 ms

Remote clock offset: 7.738 ms

Below is generated by plot.py at 2019-10-03 10:47:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.66 Mbit/s

95th percentile per-packet one-way delay: 75.019 ms

Loss rate: 0.37%

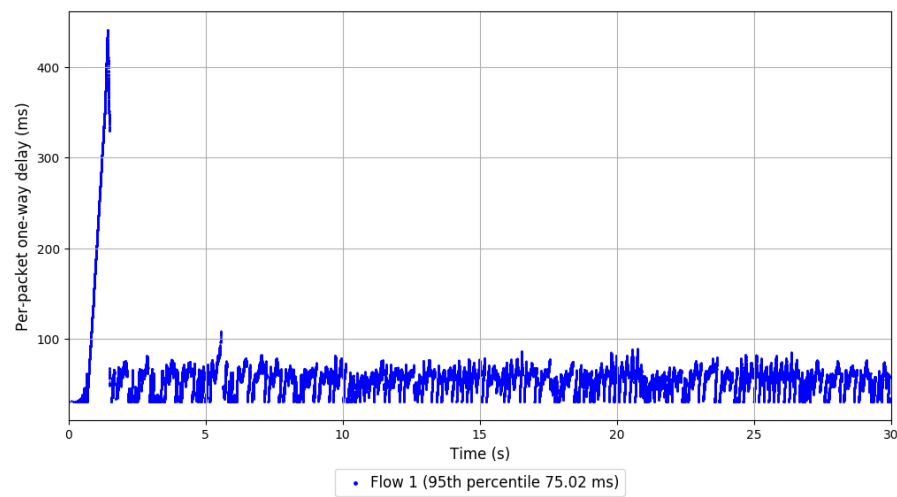
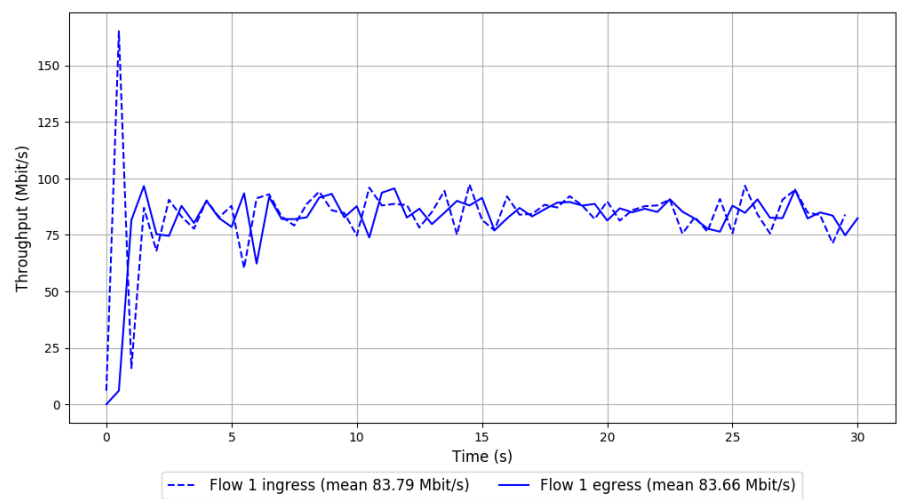
-- Flow 1:

Average throughput: 83.66 Mbit/s

95th percentile per-packet one-way delay: 75.019 ms

Loss rate: 0.37%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-10-03 08:11:22

End at: 2019-10-03 08:11:52

Local clock offset: 0.177 ms

Remote clock offset: 7.762 ms

Below is generated by plot.py at 2019-10-03 10:47:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.40 Mbit/s

95th percentile per-packet one-way delay: 68.705 ms

Loss rate: 0.32%

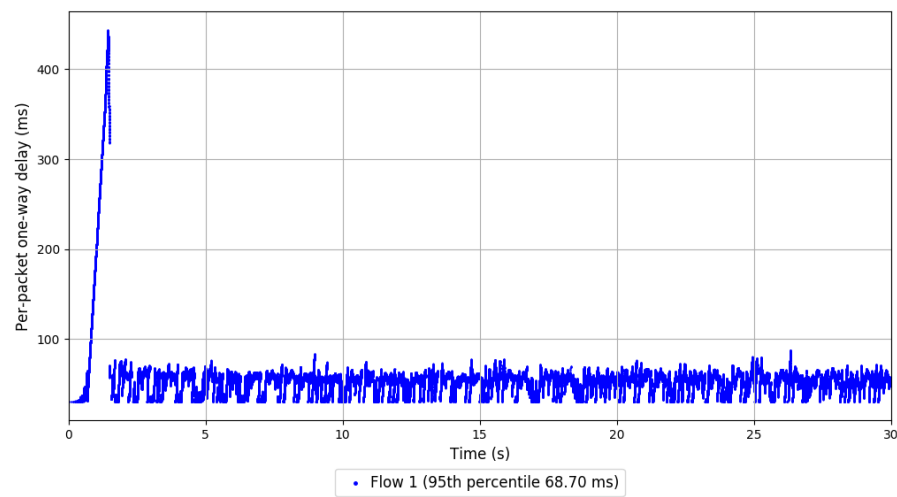
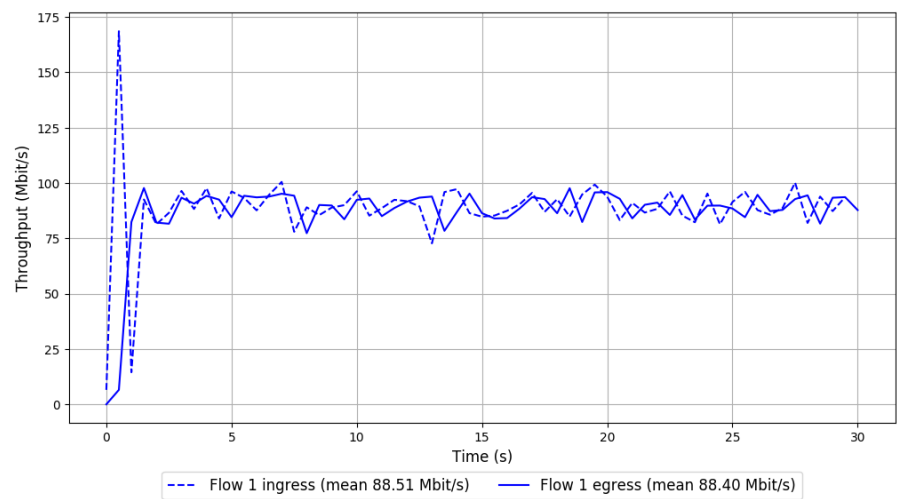
-- Flow 1:

Average throughput: 88.40 Mbit/s

95th percentile per-packet one-way delay: 68.705 ms

Loss rate: 0.32%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-10-03 08:53:16

End at: 2019-10-03 08:53:46

Local clock offset: 0.164 ms

Remote clock offset: 7.189 ms

Below is generated by plot.py at 2019-10-03 10:47:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.27 Mbit/s

95th percentile per-packet one-way delay: 69.475 ms

Loss rate: 0.37%

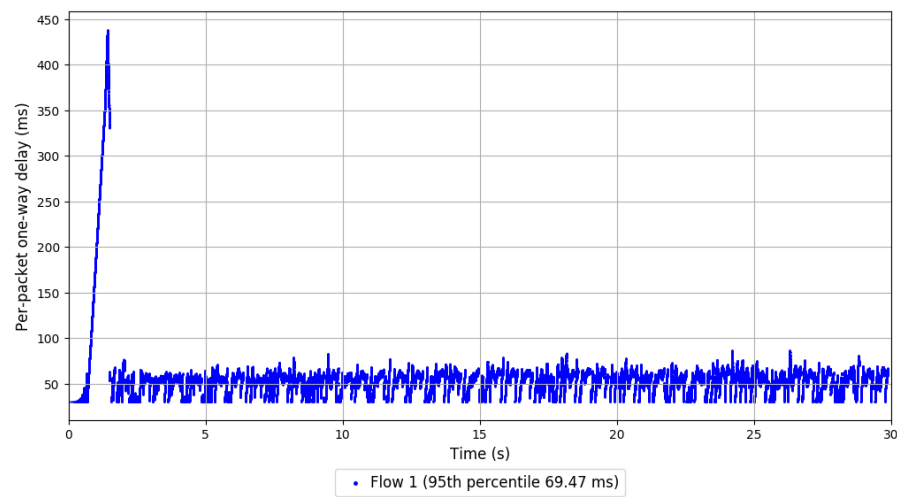
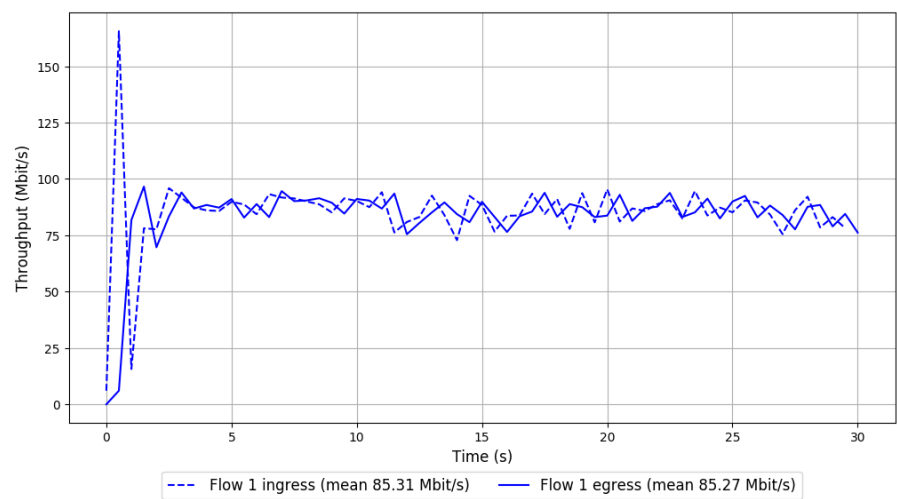
-- Flow 1:

Average throughput: 85.27 Mbit/s

95th percentile per-packet one-way delay: 69.475 ms

Loss rate: 0.37%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-10-03 09:31:58

End at: 2019-10-03 09:32:28

Local clock offset: 0.132 ms

Remote clock offset: 7.307 ms

Below is generated by plot.py at 2019-10-03 10:47:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.13 Mbit/s

95th percentile per-packet one-way delay: 70.086 ms

Loss rate: 0.35%

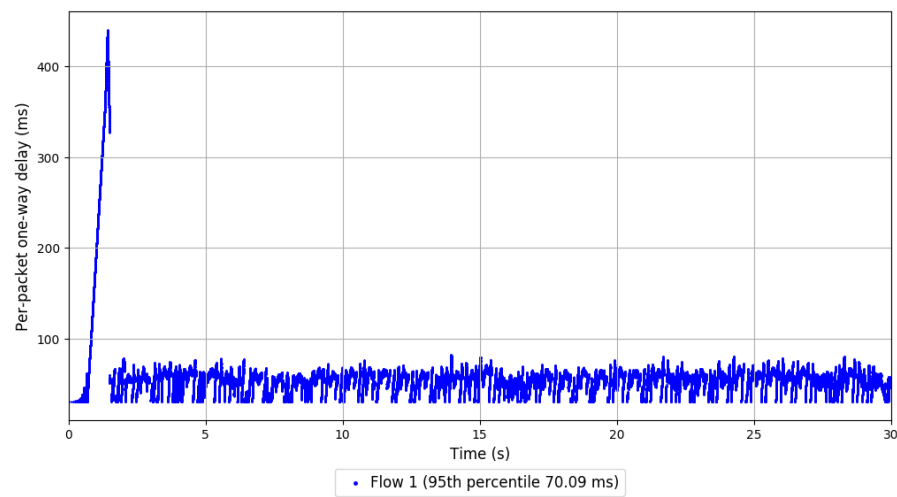
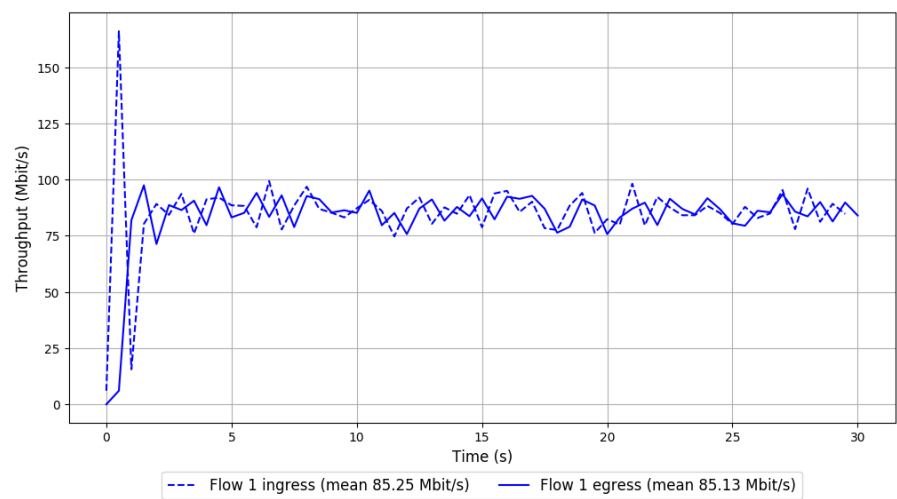
-- Flow 1:

Average throughput: 85.13 Mbit/s

95th percentile per-packet one-way delay: 70.086 ms

Loss rate: 0.35%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-10-03 10:11:00

End at: 2019-10-03 10:11:30

Local clock offset: 0.266 ms

Remote clock offset: 7.859 ms

Below is generated by plot.py at 2019-10-03 10:47:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.87 Mbit/s

95th percentile per-packet one-way delay: 70.511 ms

Loss rate: 0.46%

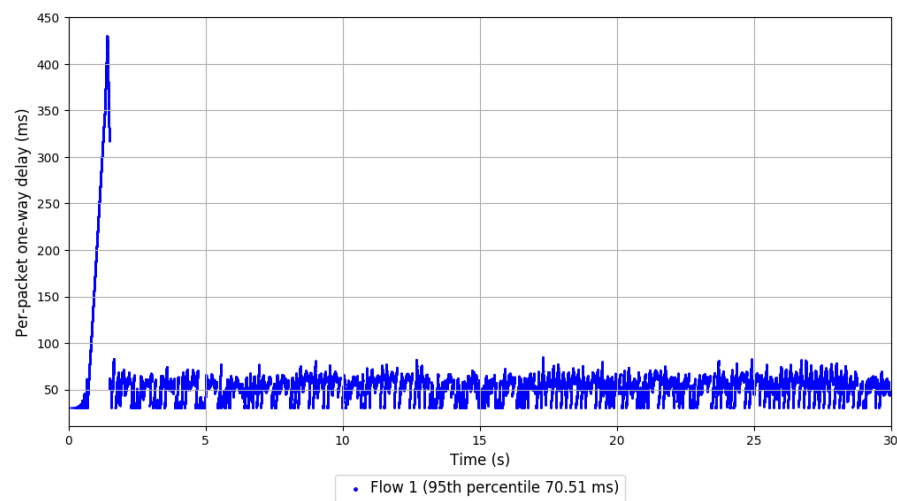
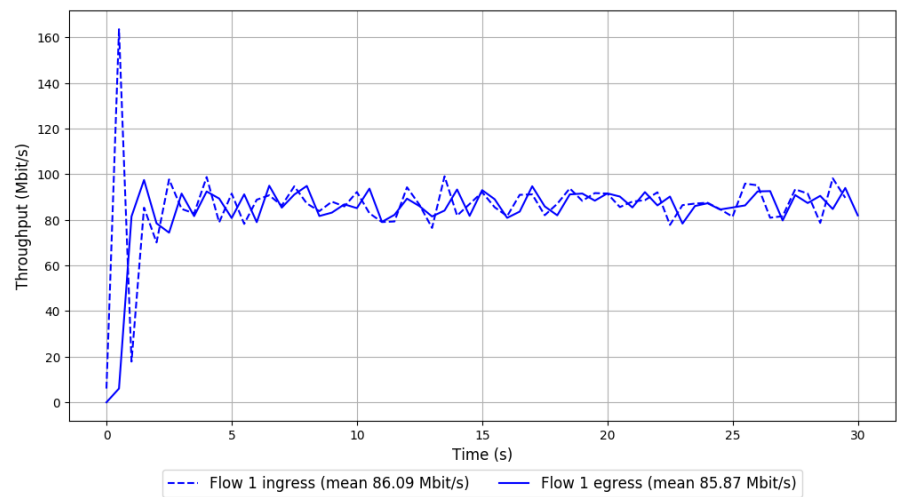
-- Flow 1:

Average throughput: 85.87 Mbit/s

95th percentile per-packet one-way delay: 70.511 ms

Loss rate: 0.46%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-10-03 07:25:00

End at: 2019-10-03 07:25:30

Local clock offset: 0.293 ms

Remote clock offset: 7.666 ms

Below is generated by plot.py at 2019-10-03 10:47:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.11 Mbit/s

95th percentile per-packet one-way delay: 36.057 ms

Loss rate: 0.23%

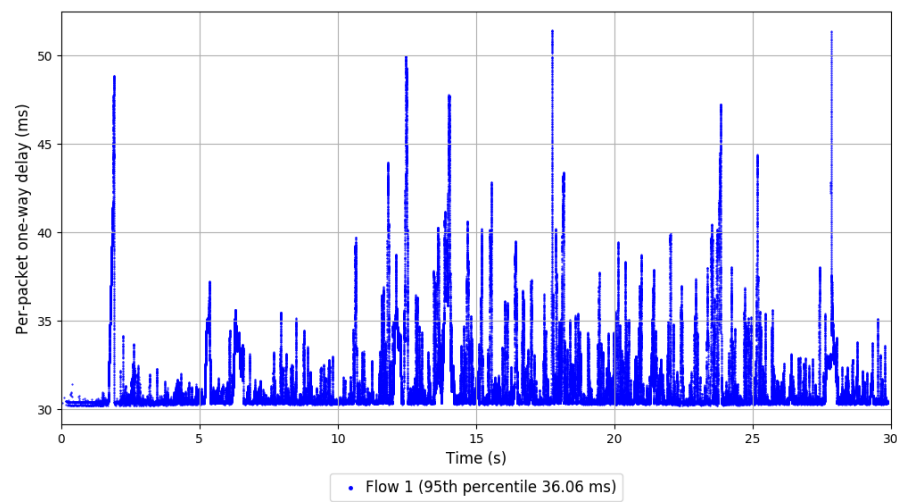
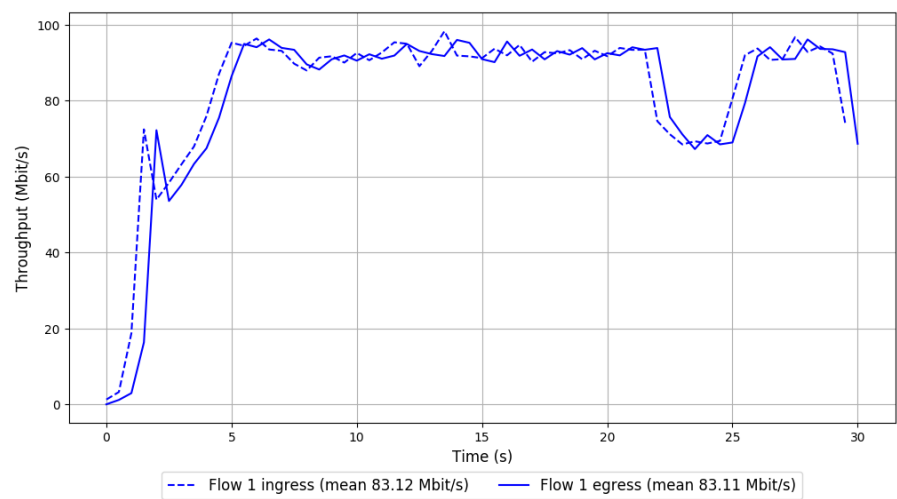
-- Flow 1:

Average throughput: 83.11 Mbit/s

95th percentile per-packet one-way delay: 36.057 ms

Loss rate: 0.23%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-10-03 08:13:43

End at: 2019-10-03 08:14:13

Local clock offset: 0.17 ms

Remote clock offset: 7.883 ms

Below is generated by plot.py at 2019-10-03 10:47:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.90 Mbit/s

95th percentile per-packet one-way delay: 50.460 ms

Loss rate: 0.27%

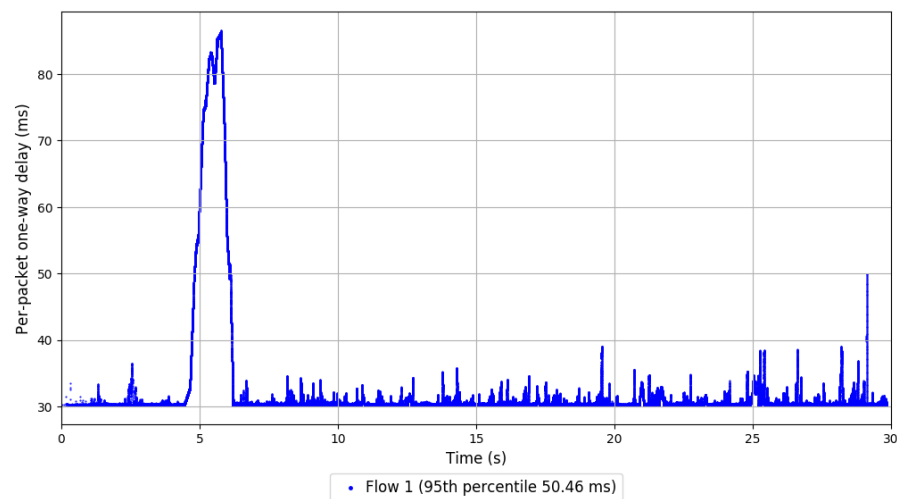
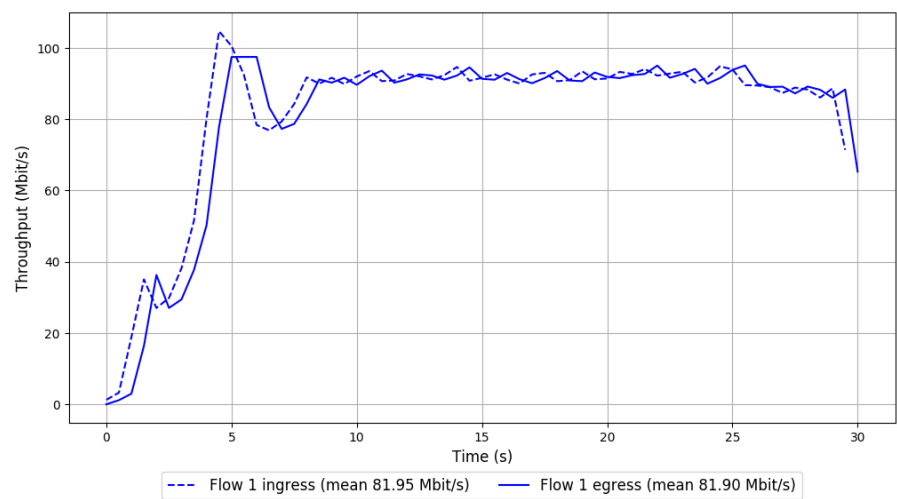
-- Flow 1:

Average throughput: 81.90 Mbit/s

95th percentile per-packet one-way delay: 50.460 ms

Loss rate: 0.27%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-10-03 08:54:47

End at: 2019-10-03 08:55:17

Local clock offset: 0.173 ms

Remote clock offset: 7.284 ms

Below is generated by plot.py at 2019-10-03 10:47:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.59 Mbit/s

95th percentile per-packet one-way delay: 33.026 ms

Loss rate: 0.23%

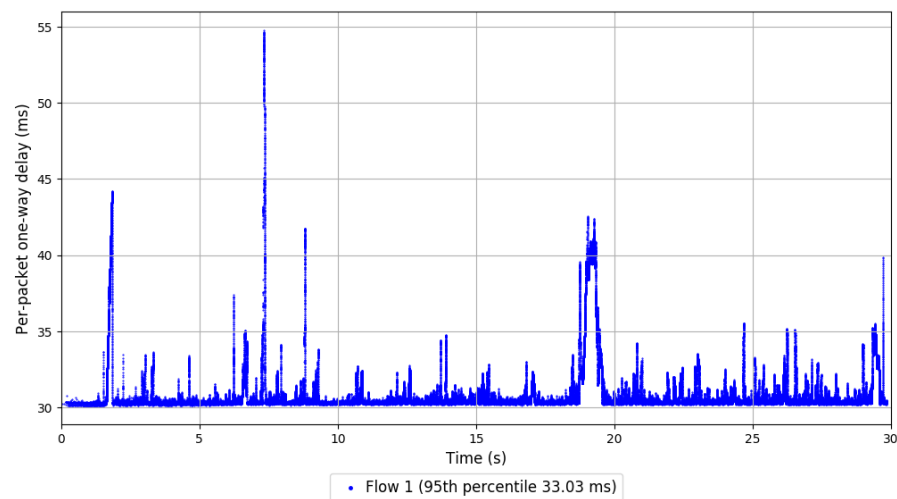
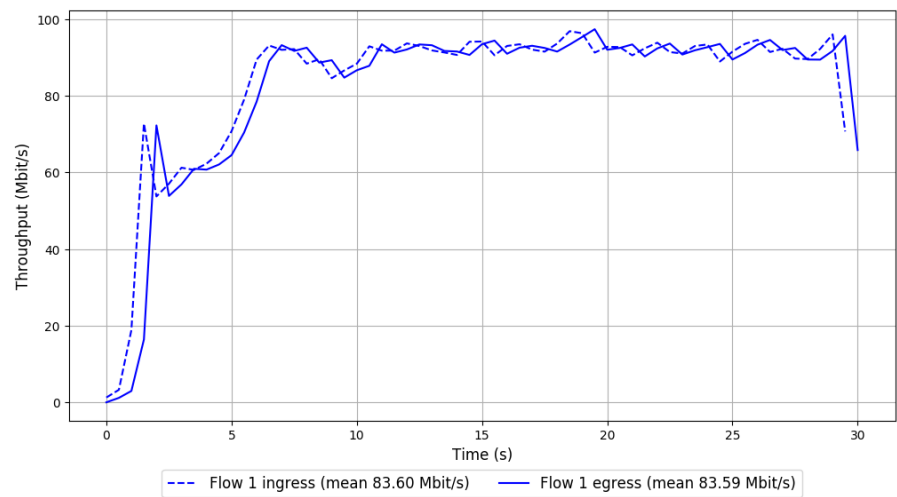
-- Flow 1:

Average throughput: 83.59 Mbit/s

95th percentile per-packet one-way delay: 33.026 ms

Loss rate: 0.23%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-10-03 09:34:13

End at: 2019-10-03 09:34:43

Local clock offset: 0.151 ms

Remote clock offset: 7.261 ms

Below is generated by plot.py at 2019-10-03 10:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.87 Mbit/s

95th percentile per-packet one-way delay: 36.108 ms

Loss rate: 0.28%

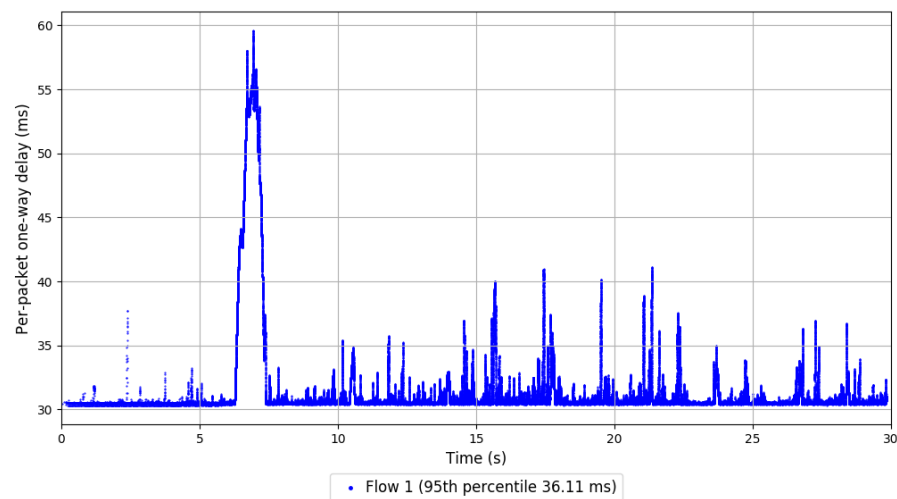
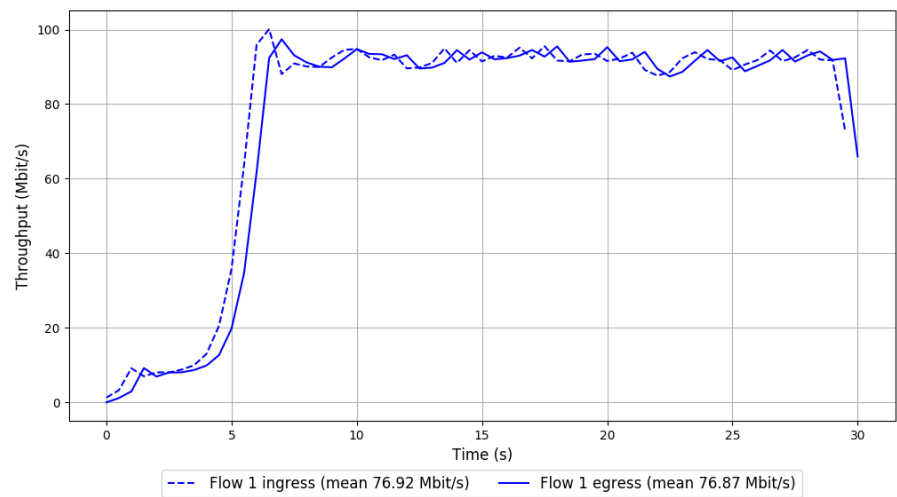
-- Flow 1:

Average throughput: 76.87 Mbit/s

95th percentile per-packet one-way delay: 36.108 ms

Loss rate: 0.28%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-10-03 10:12:32

End at: 2019-10-03 10:13:02

Local clock offset: 0.268 ms

Remote clock offset: 7.761 ms

Below is generated by plot.py at 2019-10-03 10:47:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.02 Mbit/s

95th percentile per-packet one-way delay: 33.558 ms

Loss rate: 0.26%

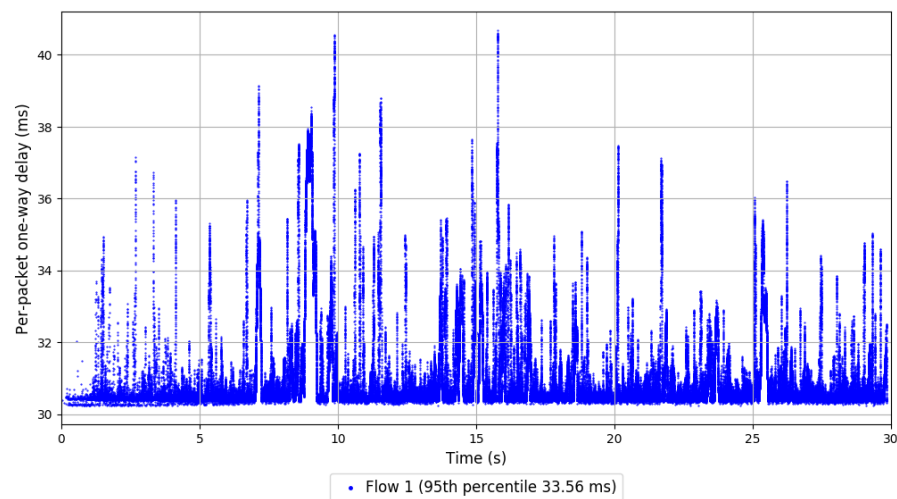
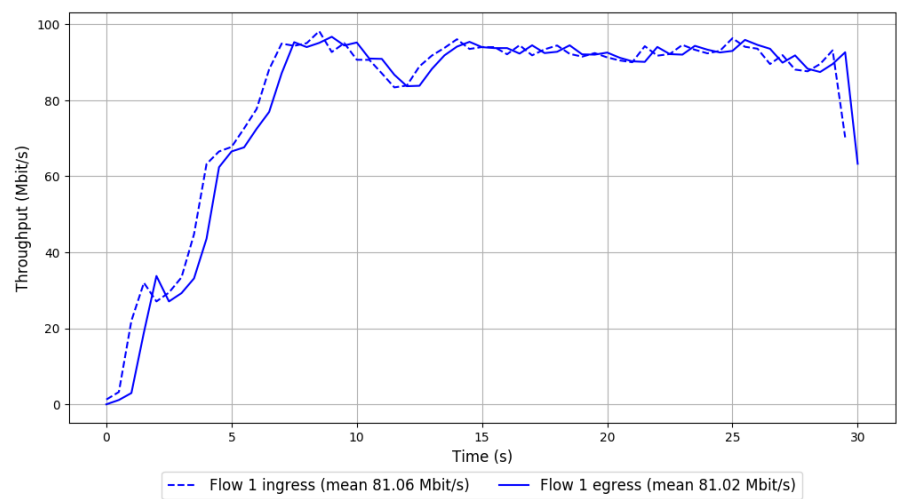
-- Flow 1:

Average throughput: 81.02 Mbit/s

95th percentile per-packet one-way delay: 33.558 ms

Loss rate: 0.26%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-10-03 07:09:38

End at: 2019-10-03 07:10:08

Local clock offset: 0.236 ms

Remote clock offset: 7.662 ms

Below is generated by plot.py at 2019-10-03 10:47:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 31.487 ms

Loss rate: 0.21%

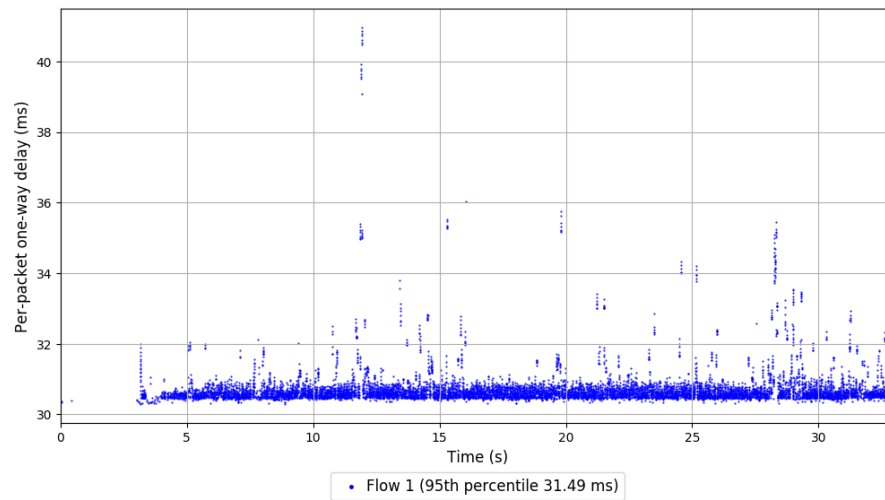
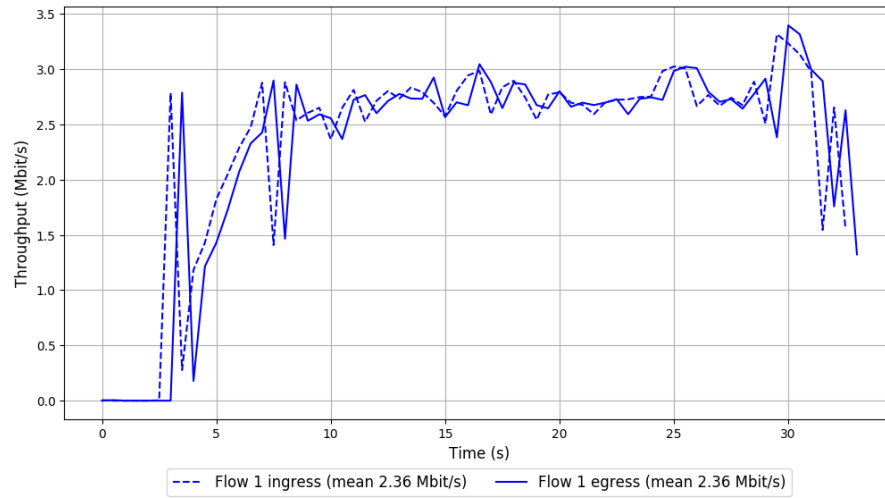
-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 31.487 ms

Loss rate: 0.21%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-10-03 07:59:13

End at: 2019-10-03 07:59:43

Local clock offset: 0.24 ms

Remote clock offset: 7.743 ms

Below is generated by plot.py at 2019-10-03 10:47:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 31.287 ms

Loss rate: 0.27%

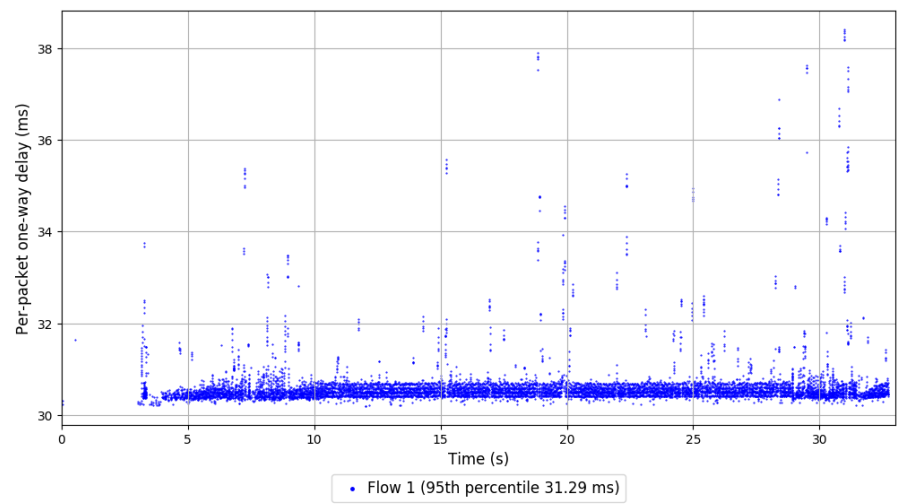
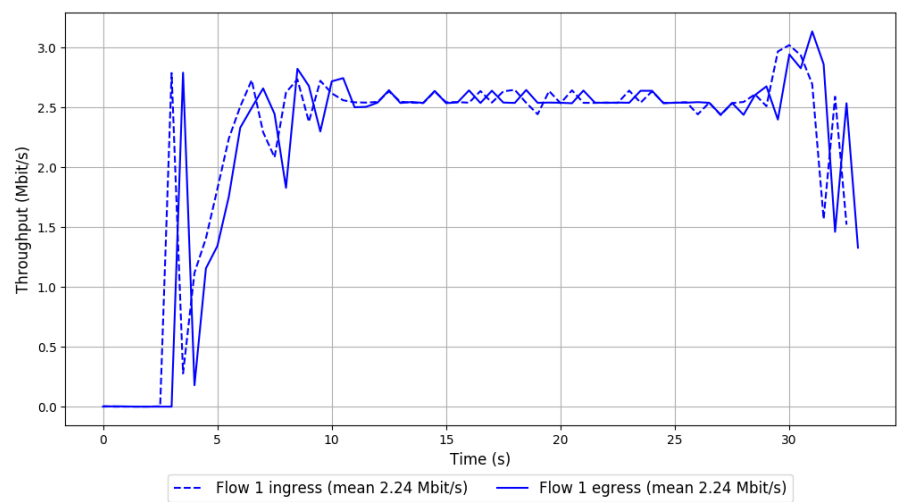
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 31.287 ms

Loss rate: 0.27%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-10-03 08:44:07

End at: 2019-10-03 08:44:37

Local clock offset: 0.208 ms

Remote clock offset: 7.232 ms

Below is generated by plot.py at 2019-10-03 10:47:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 30.894 ms

Loss rate: 0.28%

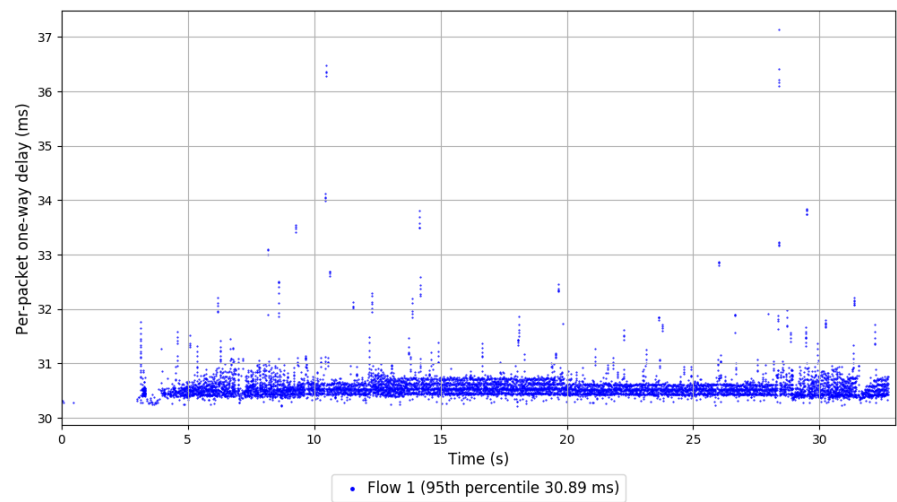
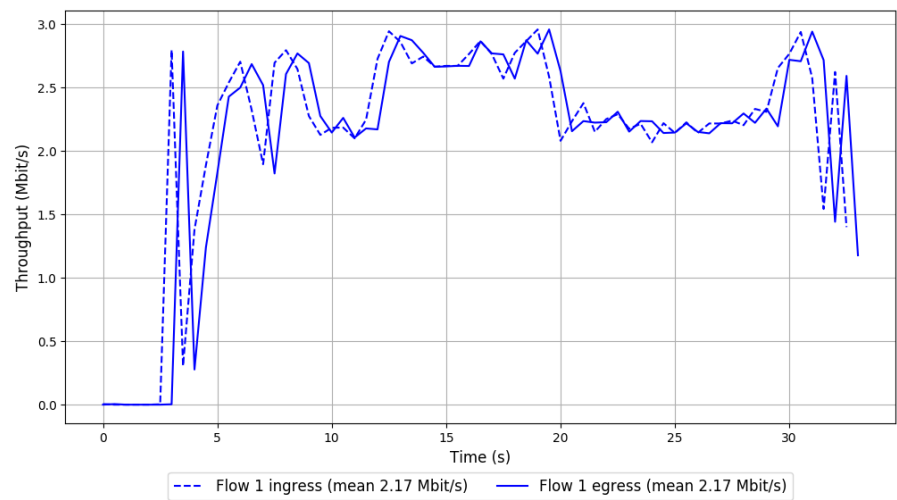
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 30.894 ms

Loss rate: 0.28%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-10-03 09:22:10

End at: 2019-10-03 09:22:41

Local clock offset: 0.129 ms

Remote clock offset: 7.309 ms

Below is generated by plot.py at 2019-10-03 10:47:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 31.931 ms

Loss rate: 0.26%

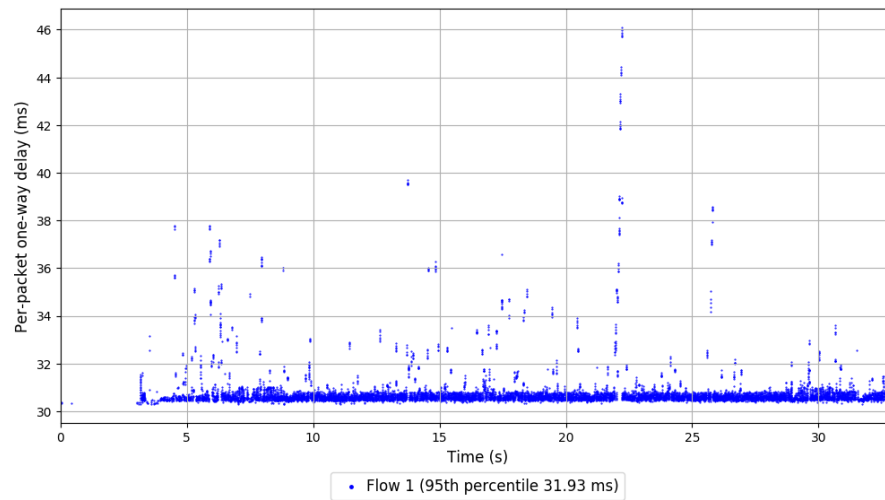
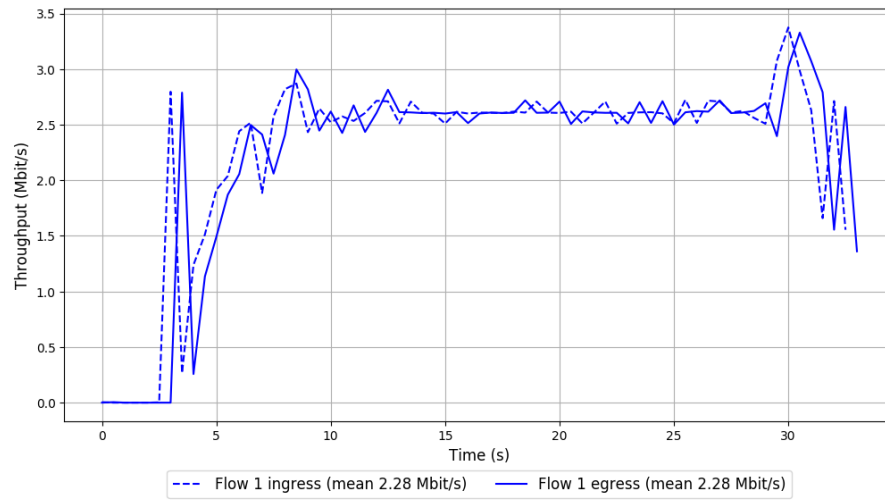
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 31.931 ms

Loss rate: 0.26%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-10-03 10:01:42

End at: 2019-10-03 10:02:12

Local clock offset: 0.177 ms

Remote clock offset: 7.865 ms

Below is generated by plot.py at 2019-10-03 10:47:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 31.103 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 31.103 ms

Loss rate: 0.19%

Run 5: Report of WebRTC media — Data Link

