

Pantheon Report

Generated at 2019-10-03 09:25:15 (UTC).

Data path: Brazil on **p4p1** (*remote*) → AWS Brazil 1 on **ens5** (*local*).

Repeated the test of 24 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

NTP offsets were measured against **gps.ntp.br** and have been applied to correct the timestamps in logs.

System info:

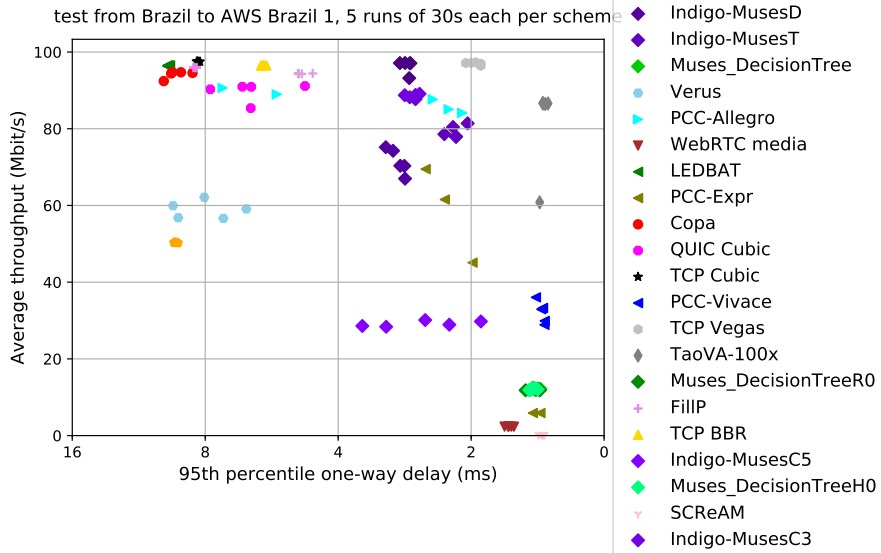
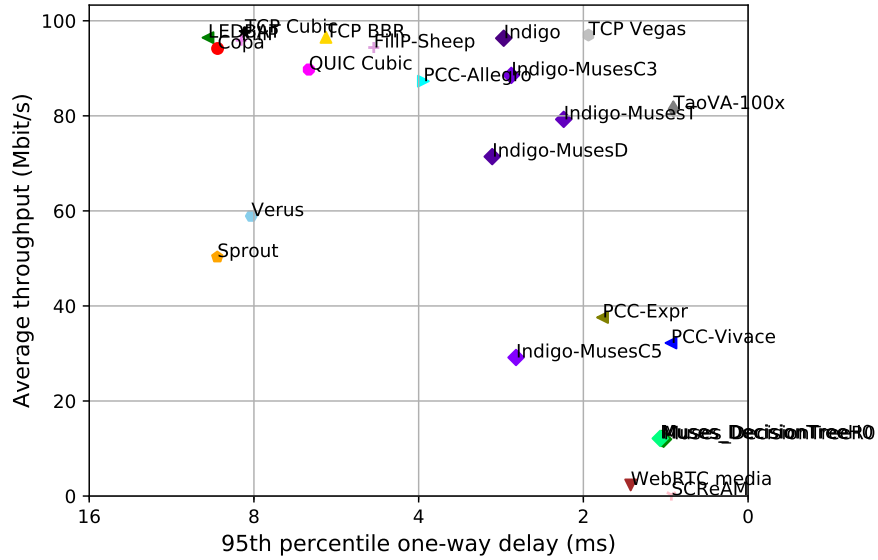
```
Linux 4.15.0-1050-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

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

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

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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	96.51	5.91	0.02
Copa	5	94.17	9.32	0.05
TCP Cubic	5	97.50	8.31	0.06
FillP	5	95.93	8.44	0.01
FillP-Sheep	5	94.38	4.83	0.01
Indigo	5	96.33	2.80	0.02
Indigo-MusesC3	5	88.52	2.71	0.01
Indigo-MusesC5	5	29.15	2.66	0.00
Indigo-MusesD	5	71.42	2.94	0.01
Indigo-MusesT	5	79.26	2.17	0.01
LEDBAT	5	96.45	9.71	0.10
Muses_DecisionTree	5	12.11	1.05	0.01
Muses_DecisionTreeH0	5	12.12	1.07	0.01
Muses_DecisionTreeR0	5	11.95	1.03	0.01
PCC-Allegro	5	87.29	3.92	0.01
PCC-Expr	5	37.58	1.77	0.01
QUIC Cubic	5	89.74	6.35	0.01
SCReAM	5	0.21	0.93	0.05
Sprout	5	50.30	9.33	0.01
TaoVA-100x	5	81.43	0.91	0.01
TCP Vegas	5	96.99	1.94	0.01
Verus	5	58.91	8.09	0.03
PCC-Vivace	5	32.21	0.94	0.01
WebRTC media	5	2.33	1.43	0.01

Run 1: Statistics of TCP BBR

Start at: 2019-10-03 07:00:33

End at: 2019-10-03 07:01:03

Local clock offset: -5.638 ms

Remote clock offset: 0.155 ms

Below is generated by plot.py at 2019-10-03 09:12:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.47 Mbit/s

95th percentile per-packet one-way delay: 5.985 ms

Loss rate: 0.02%

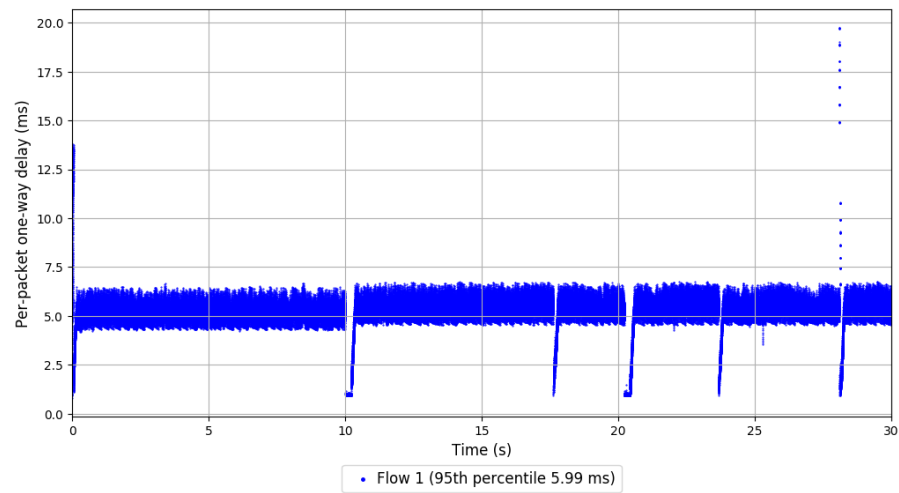
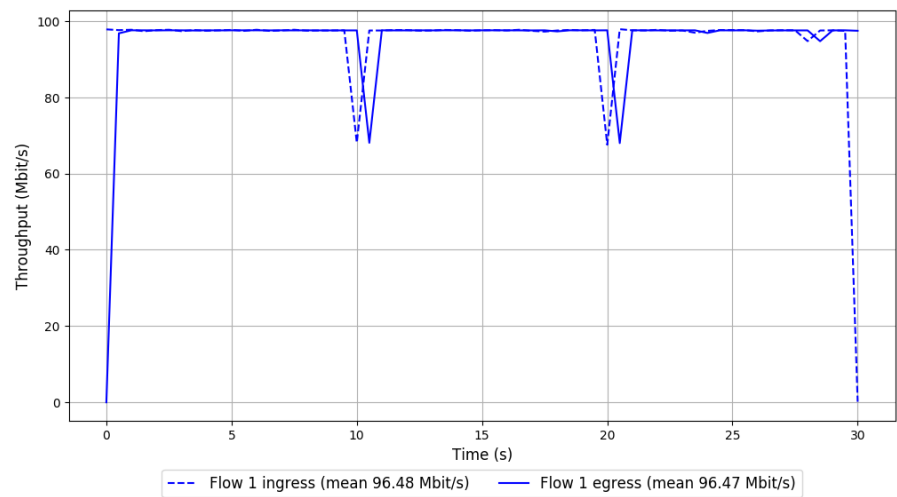
-- Flow 1:

Average throughput: 96.47 Mbit/s

95th percentile per-packet one-way delay: 5.985 ms

Loss rate: 0.02%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-10-03 07:27:22

End at: 2019-10-03 07:27:52

Local clock offset: -5.932 ms

Remote clock offset: 0.369 ms

Below is generated by plot.py at 2019-10-03 09:12:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.51 Mbit/s

95th percentile per-packet one-way delay: 5.943 ms

Loss rate: 0.02%

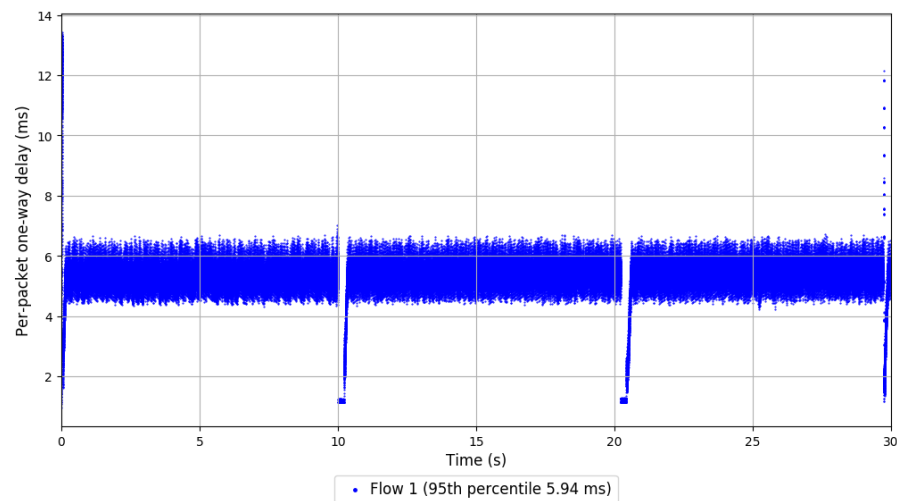
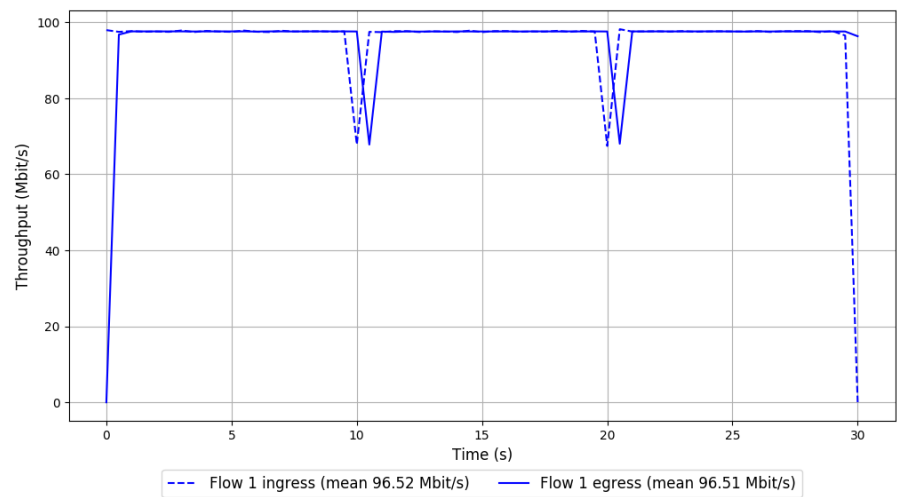
-- Flow 1:

Average throughput: 96.51 Mbit/s

95th percentile per-packet one-way delay: 5.943 ms

Loss rate: 0.02%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-10-03 07:54:09

End at: 2019-10-03 07:54:39

Local clock offset: -6.824 ms

Remote clock offset: 0.722 ms

Below is generated by plot.py at 2019-10-03 09:12:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.52 Mbit/s

95th percentile per-packet one-way delay: 5.895 ms

Loss rate: 0.02%

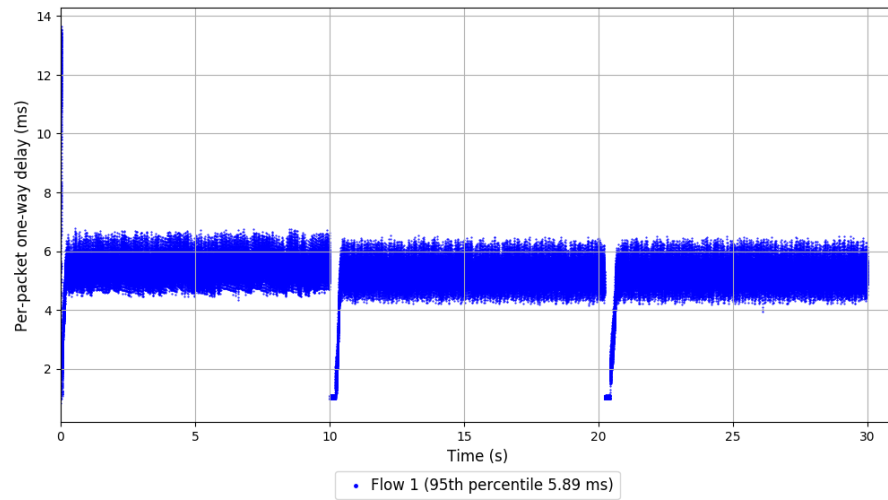
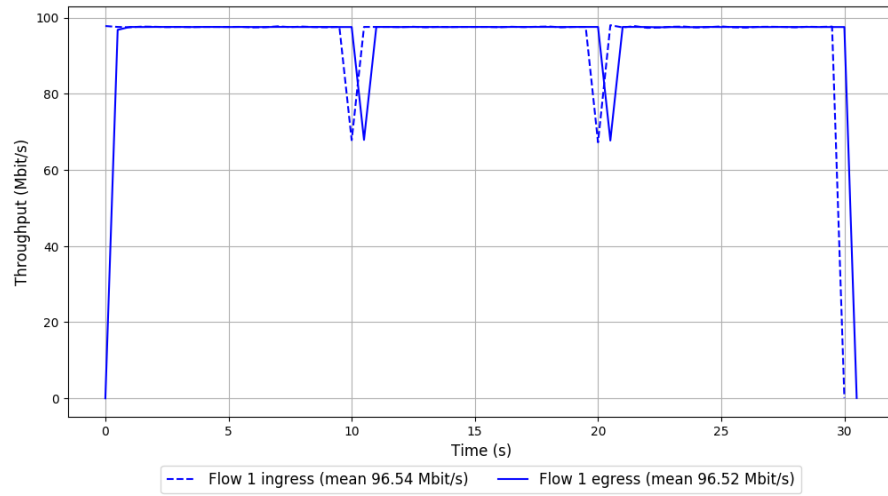
-- Flow 1:

Average throughput: 96.52 Mbit/s

95th percentile per-packet one-way delay: 5.895 ms

Loss rate: 0.02%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-10-03 08:21:01

End at: 2019-10-03 08:21:31

Local clock offset: -6.569 ms

Remote clock offset: 0.861 ms

Below is generated by plot.py at 2019-10-03 09:12:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.53 Mbit/s

95th percentile per-packet one-way delay: 5.901 ms

Loss rate: 0.02%

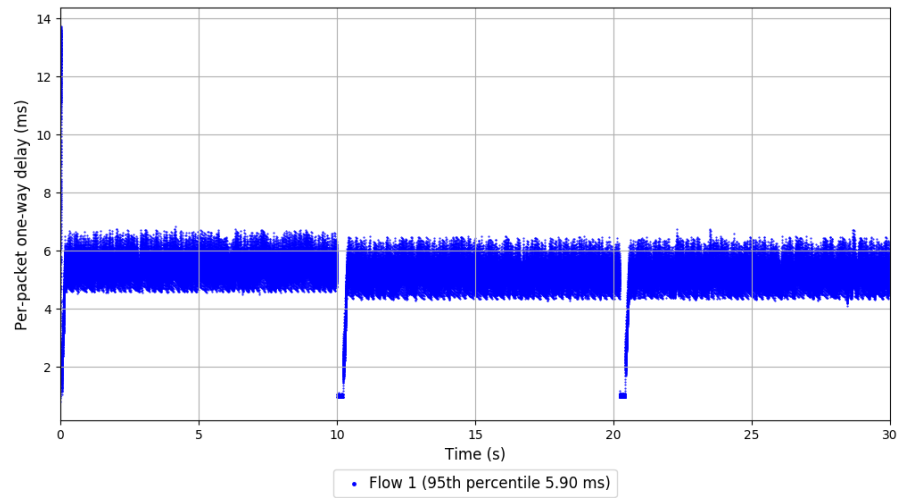
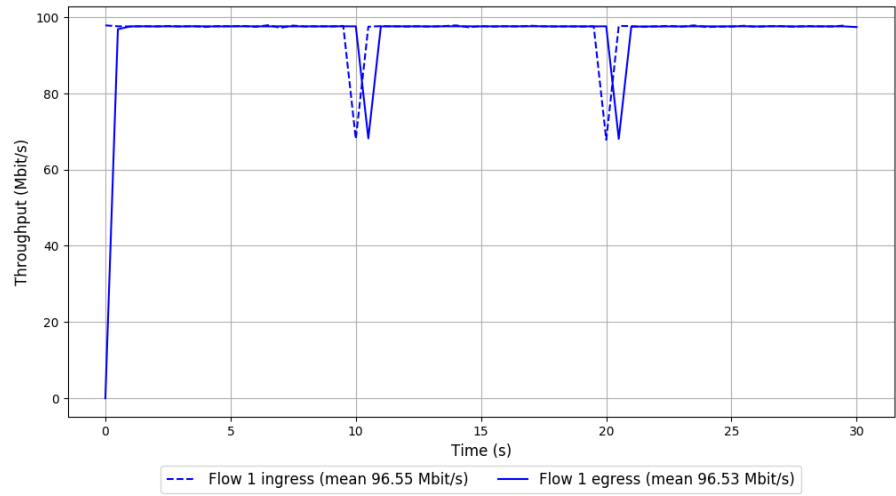
-- Flow 1:

Average throughput: 96.53 Mbit/s

95th percentile per-packet one-way delay: 5.901 ms

Loss rate: 0.02%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-10-03 08:47:55

End at: 2019-10-03 08:48:25

Local clock offset: -5.406 ms

Remote clock offset: 0.828 ms

Below is generated by plot.py at 2019-10-03 09:12:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.53 Mbit/s

95th percentile per-packet one-way delay: 5.815 ms

Loss rate: 0.02%

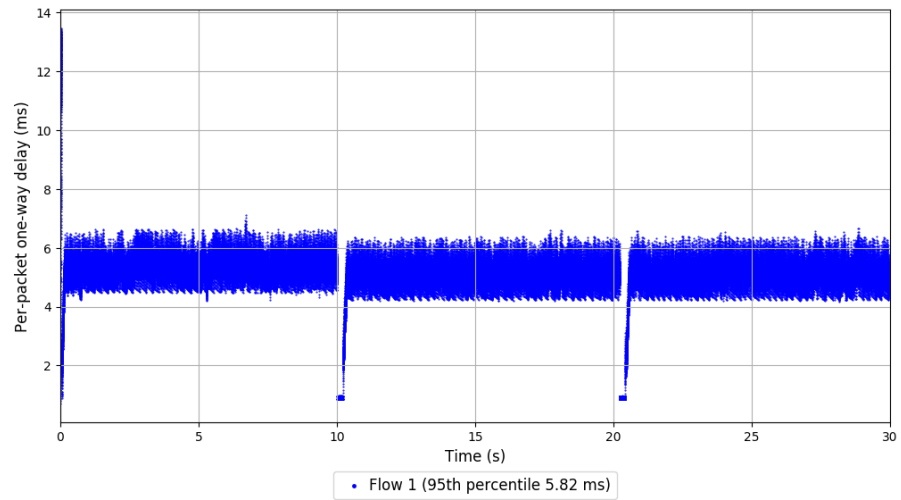
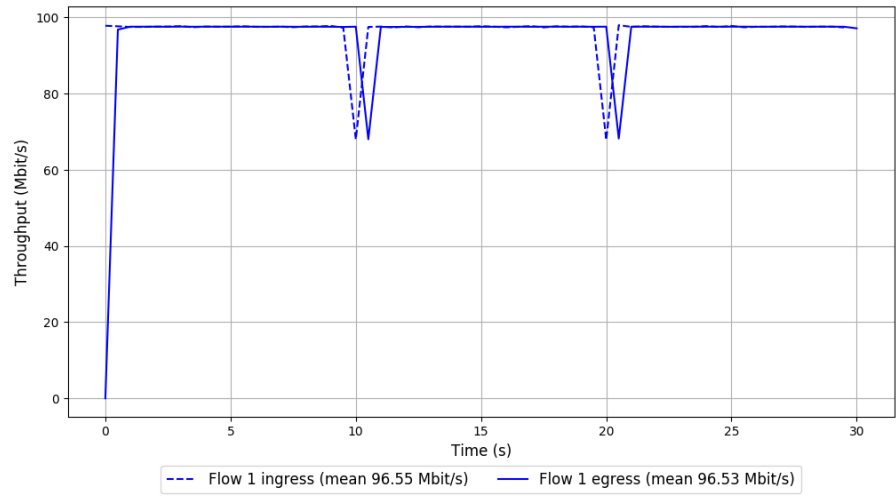
-- Flow 1:

Average throughput: 96.53 Mbit/s

95th percentile per-packet one-way delay: 5.815 ms

Loss rate: 0.02%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-10-03 07:02:47

End at: 2019-10-03 07:03:17

Local clock offset: -5.592 ms

Remote clock offset: 0.305 ms

Below is generated by plot.py at 2019-10-03 09:13:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.73 Mbit/s

95th percentile per-packet one-way delay: 9.500 ms

Loss rate: 0.06%

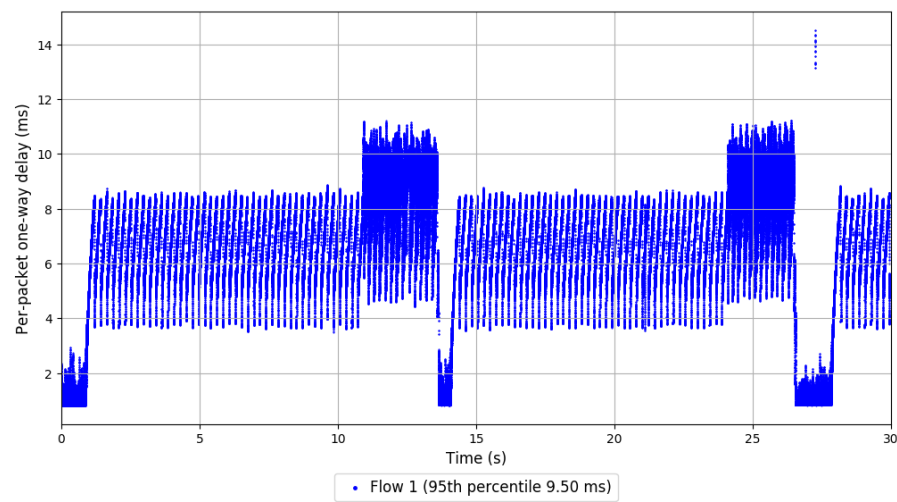
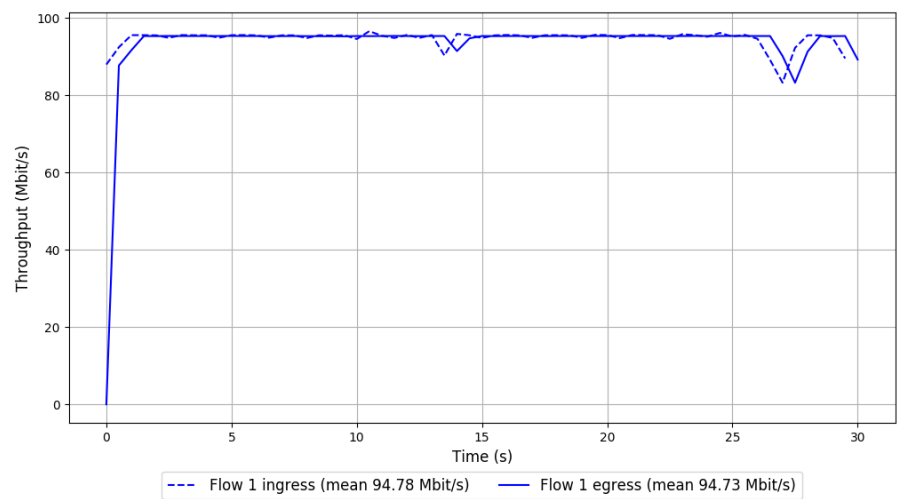
-- Flow 1:

Average throughput: 94.73 Mbit/s

95th percentile per-packet one-way delay: 9.500 ms

Loss rate: 0.06%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-10-03 07:29:36

End at: 2019-10-03 07:30:06

Local clock offset: -6.091 ms

Remote clock offset: 0.548 ms

Below is generated by plot.py at 2019-10-03 09:13:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.42 Mbit/s

95th percentile per-packet one-way delay: 9.556 ms

Loss rate: 0.04%

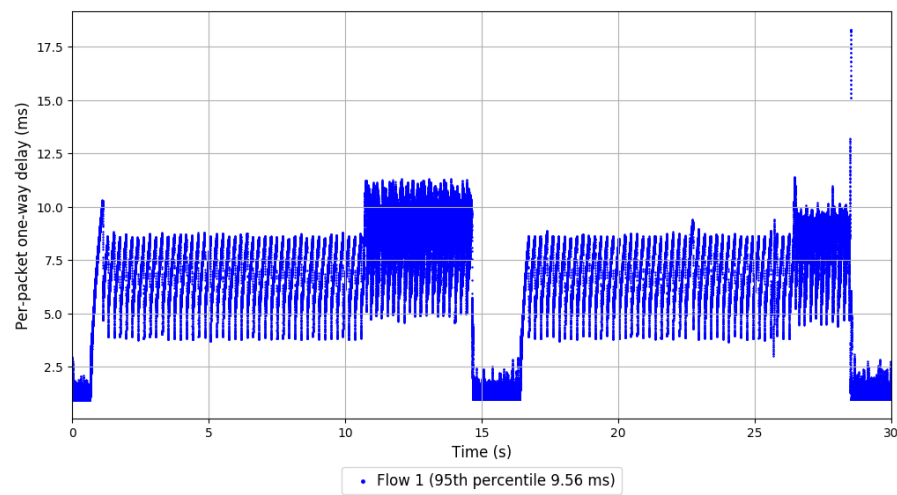
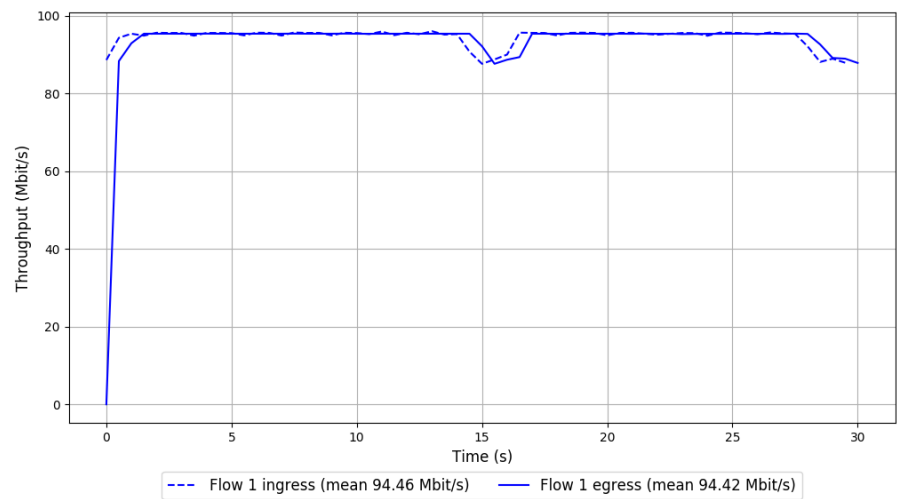
-- Flow 1:

Average throughput: 94.42 Mbit/s

95th percentile per-packet one-way delay: 9.556 ms

Loss rate: 0.04%

Run 2: Report of Copa — Data Link

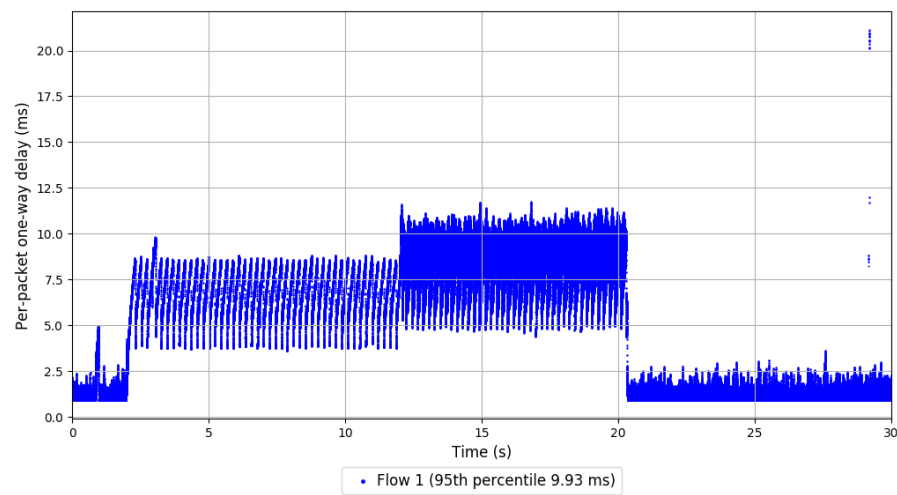
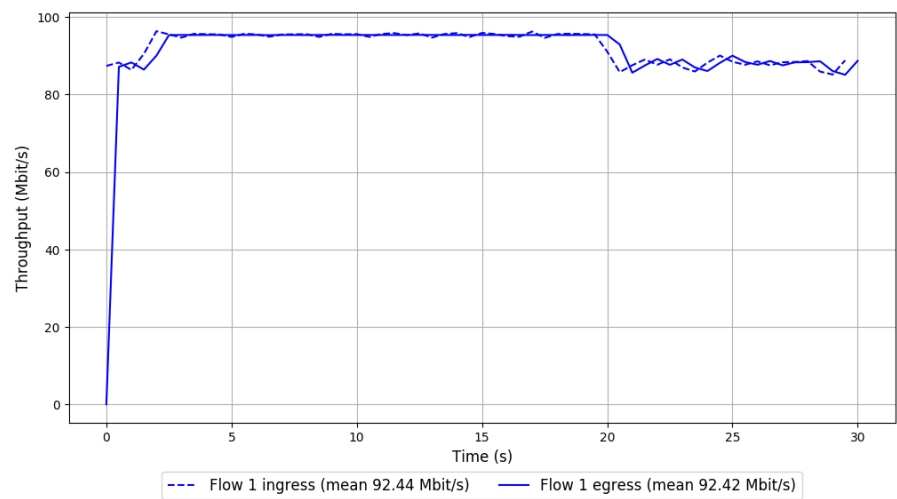


Run 3: Statistics of Copa

Start at: 2019-10-03 07:56:23
End at: 2019-10-03 07:56:53
Local clock offset: -6.756 ms
Remote clock offset: 0.786 ms

Below is generated by plot.py at 2019-10-03 09:13:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.42 Mbit/s
95th percentile per-packet one-way delay: 9.930 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 92.42 Mbit/s
95th percentile per-packet one-way delay: 9.930 ms
Loss rate: 0.03%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-10-03 08:23:16

End at: 2019-10-03 08:23:46

Local clock offset: -6.653 ms

Remote clock offset: 0.899 ms

Below is generated by plot.py at 2019-10-03 09:14:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.73 Mbit/s

95th percentile per-packet one-way delay: 9.078 ms

Loss rate: 0.05%

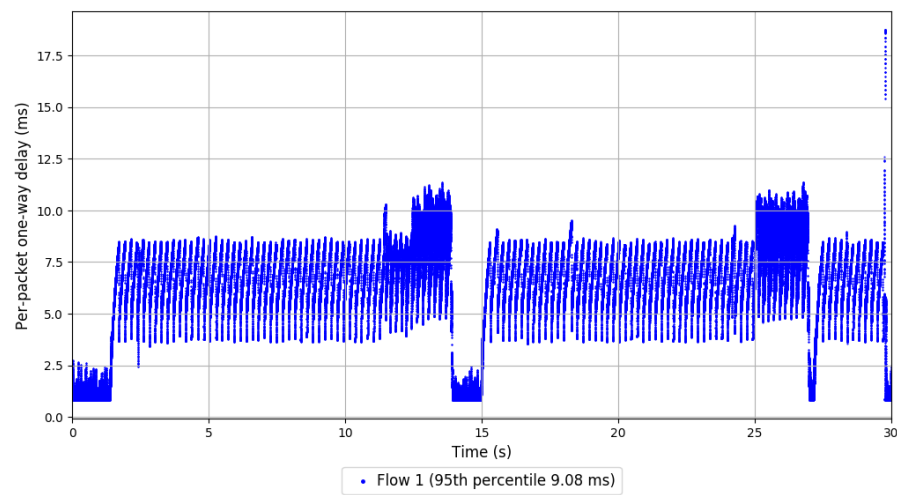
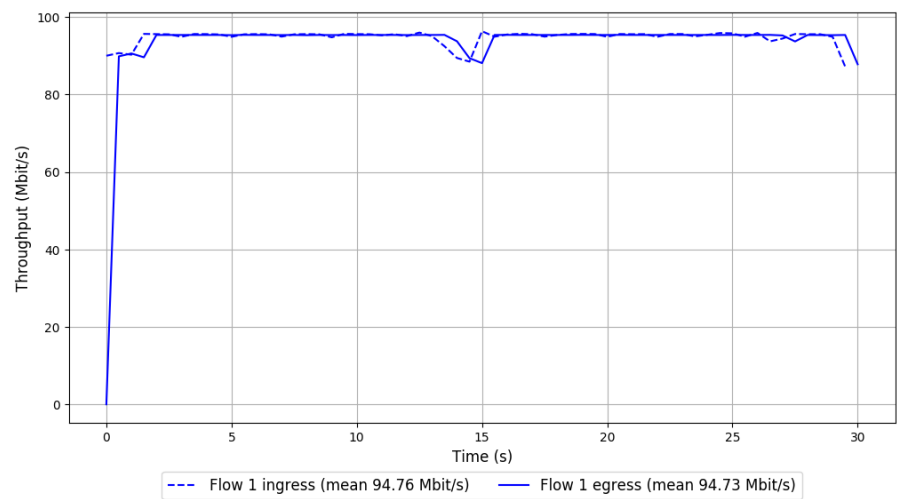
-- Flow 1:

Average throughput: 94.73 Mbit/s

95th percentile per-packet one-way delay: 9.078 ms

Loss rate: 0.05%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-10-03 08:50:09

End at: 2019-10-03 08:50:39

Local clock offset: -5.316 ms

Remote clock offset: 0.758 ms

Below is generated by plot.py at 2019-10-03 09:14:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.56 Mbit/s

95th percentile per-packet one-way delay: 8.547 ms

Loss rate: 0.06%

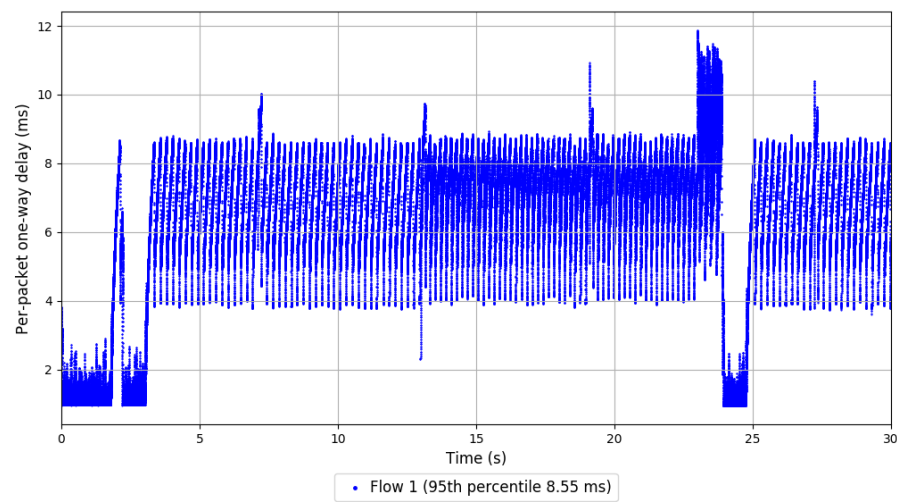
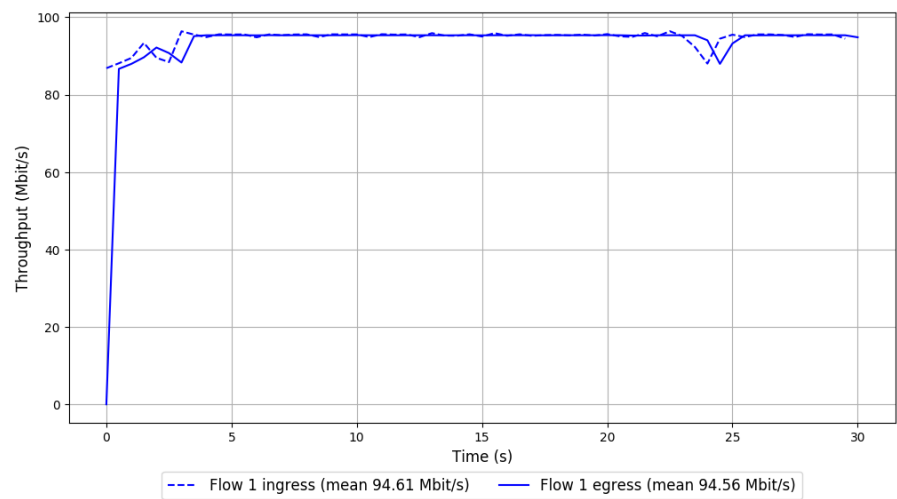
-- Flow 1:

Average throughput: 94.56 Mbit/s

95th percentile per-packet one-way delay: 8.547 ms

Loss rate: 0.06%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-10-03 07:09:36

End at: 2019-10-03 07:10:06

Local clock offset: -5.639 ms

Remote clock offset: 0.348 ms

Below is generated by plot.py at 2019-10-03 09:14:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.50 Mbit/s

95th percentile per-packet one-way delay: 8.222 ms

Loss rate: 0.06%

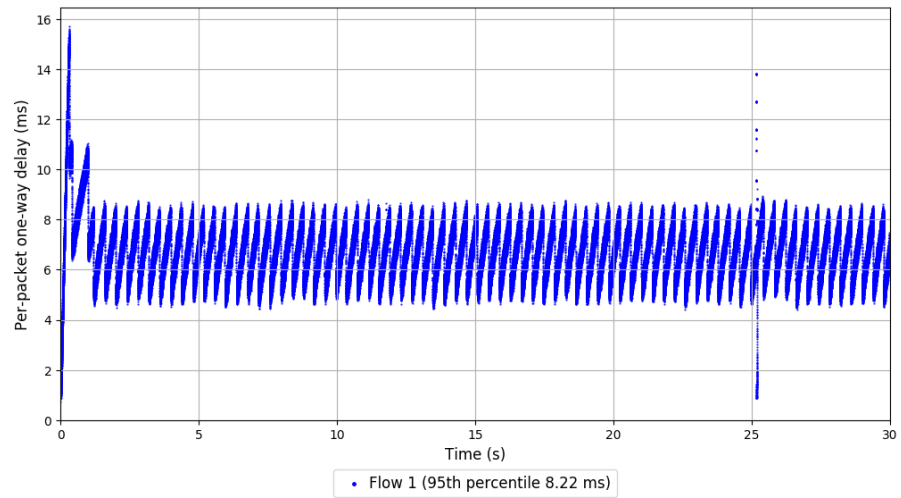
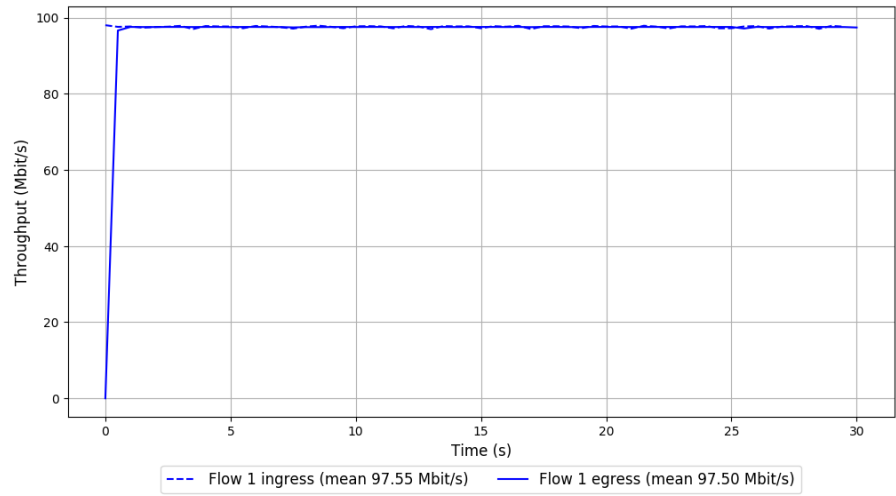
-- Flow 1:

Average throughput: 97.50 Mbit/s

95th percentile per-packet one-way delay: 8.222 ms

Loss rate: 0.06%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-10-03 07:36:23

End at: 2019-10-03 07:36:53

Local clock offset: -6.419 ms

Remote clock offset: 0.609 ms

Below is generated by plot.py at 2019-10-03 09:14:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.50 Mbit/s

95th percentile per-packet one-way delay: 8.364 ms

Loss rate: 0.05%

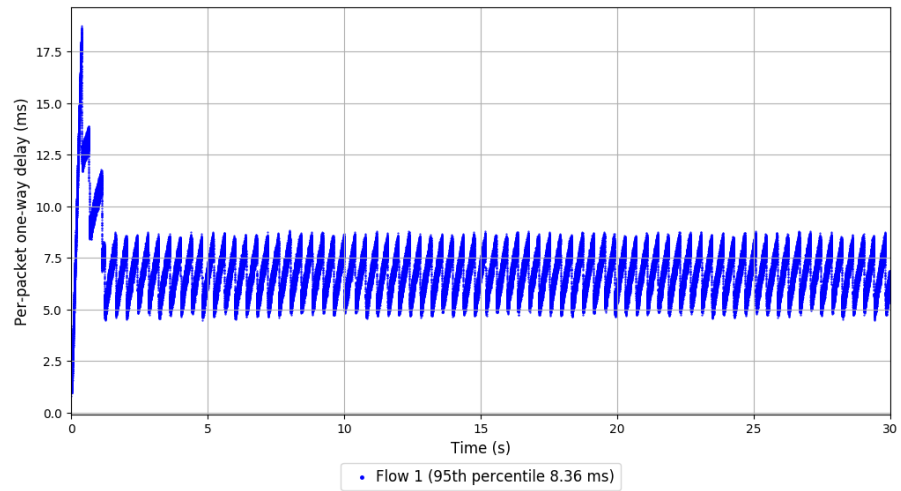
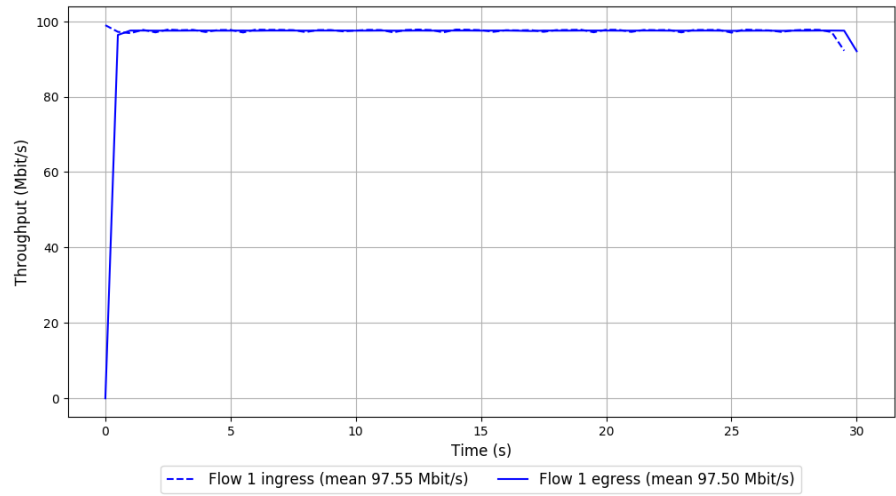
-- Flow 1:

Average throughput: 97.50 Mbit/s

95th percentile per-packet one-way delay: 8.364 ms

Loss rate: 0.05%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

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

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

Local clock offset: -6.613 ms

Remote clock offset: 0.836 ms

Below is generated by plot.py at 2019-10-03 09:14:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 8.328 ms

Loss rate: 0.06%

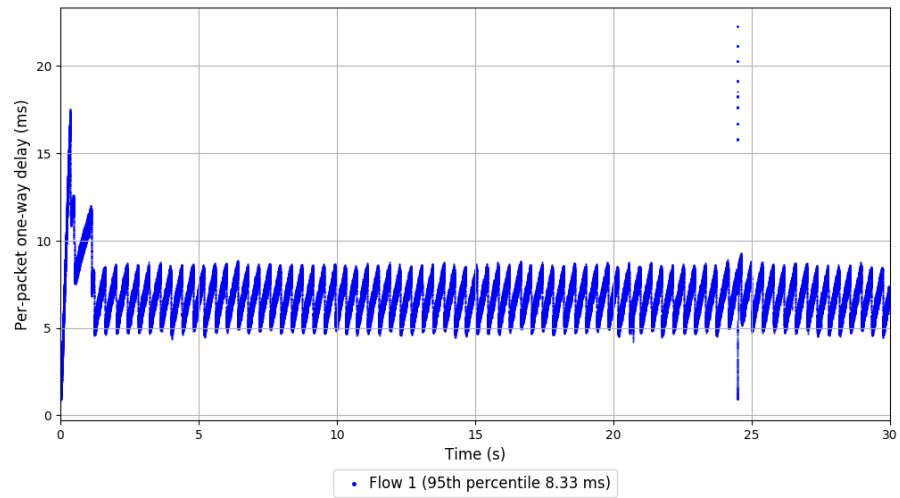
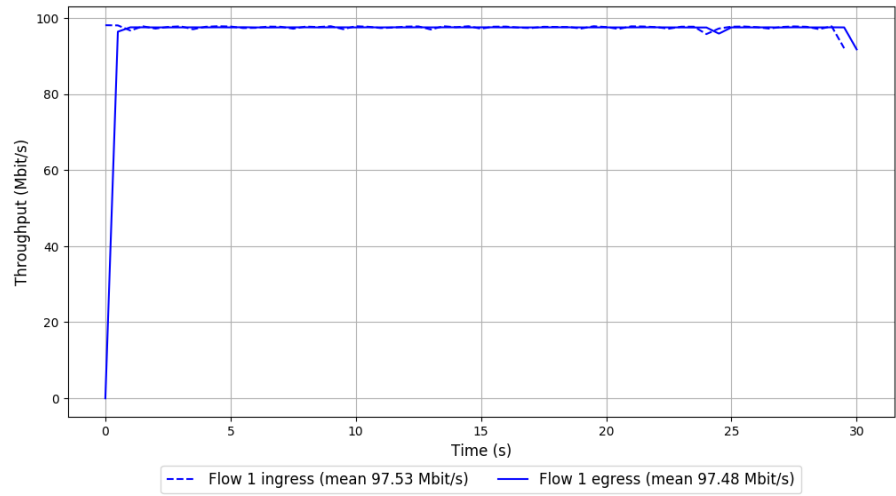
-- Flow 1:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 8.328 ms

Loss rate: 0.06%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

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

End at: 2019-10-03 08:30:35

Local clock offset: -6.099 ms

Remote clock offset: 0.742 ms

Below is generated by plot.py at 2019-10-03 09:14:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.51 Mbit/s

95th percentile per-packet one-way delay: 8.339 ms

Loss rate: 0.06%

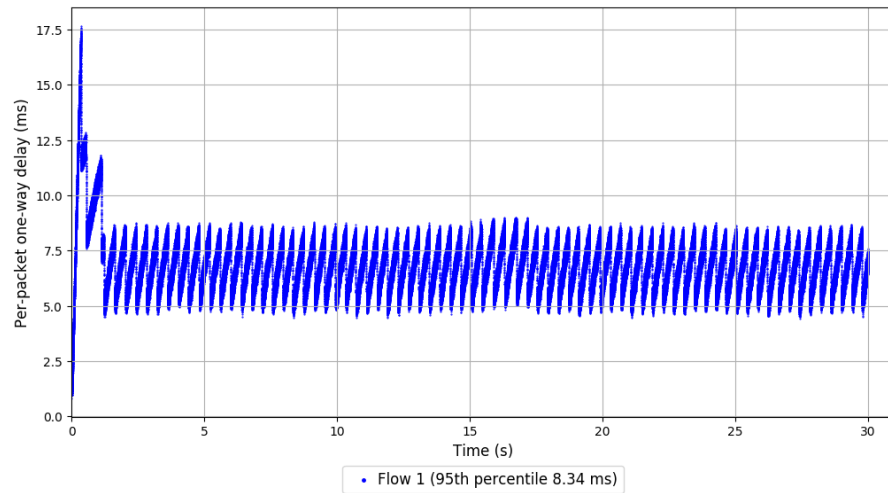
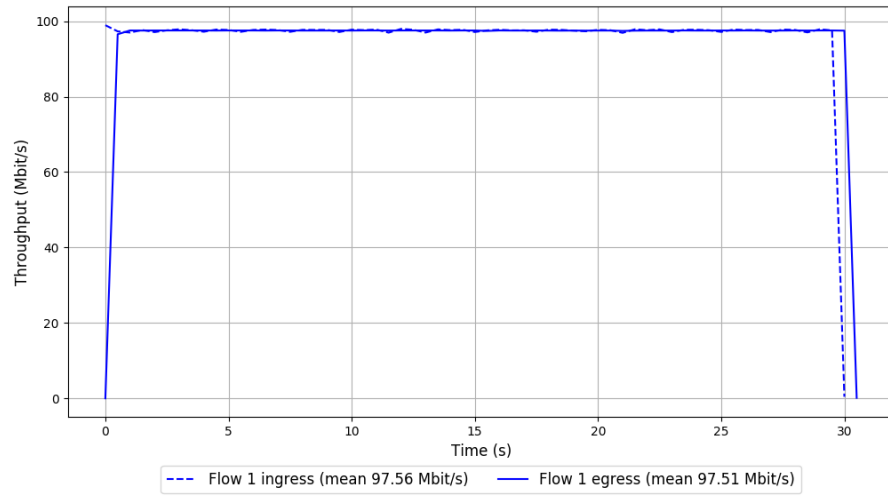
-- Flow 1:

Average throughput: 97.51 Mbit/s

95th percentile per-packet one-way delay: 8.339 ms

Loss rate: 0.06%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-10-03 08:56:58

End at: 2019-10-03 08:57:28

Local clock offset: -5.573 ms

Remote clock offset: 0.8 ms

Below is generated by plot.py at 2019-10-03 09:14:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.51 Mbit/s

95th percentile per-packet one-way delay: 8.306 ms

Loss rate: 0.06%

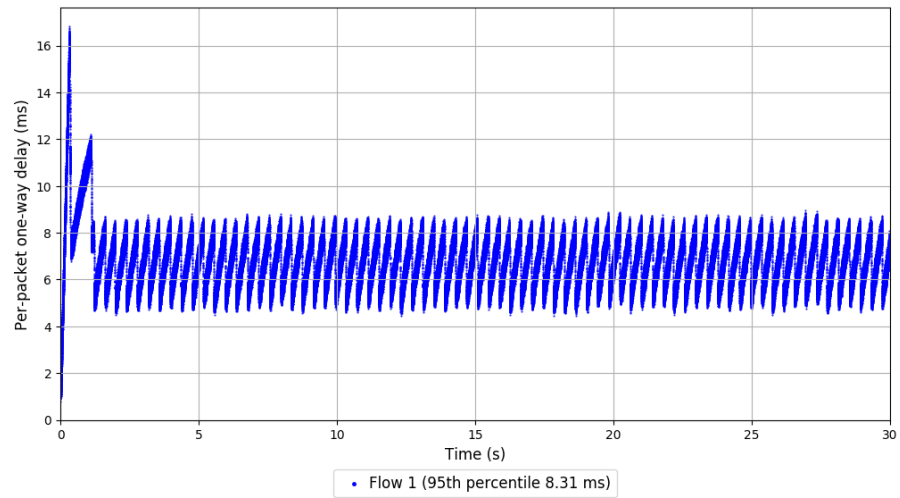
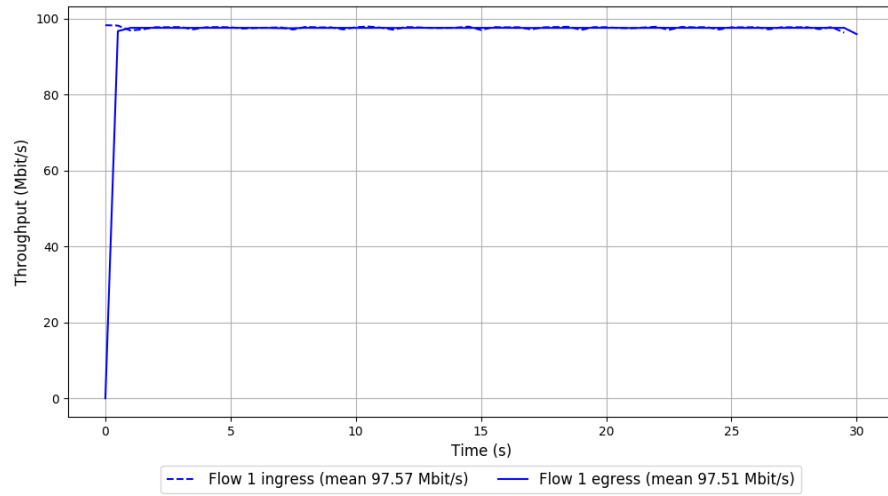
-- Flow 1:

Average throughput: 97.51 Mbit/s

95th percentile per-packet one-way delay: 8.306 ms

Loss rate: 0.06%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-10-03 07:11:49

End at: 2019-10-03 07:12:19

Local clock offset: -5.646 ms

Remote clock offset: 0.249 ms

Below is generated by plot.py at 2019-10-03 09:15:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.91 Mbit/s

95th percentile per-packet one-way delay: 8.502 ms

Loss rate: 0.01%

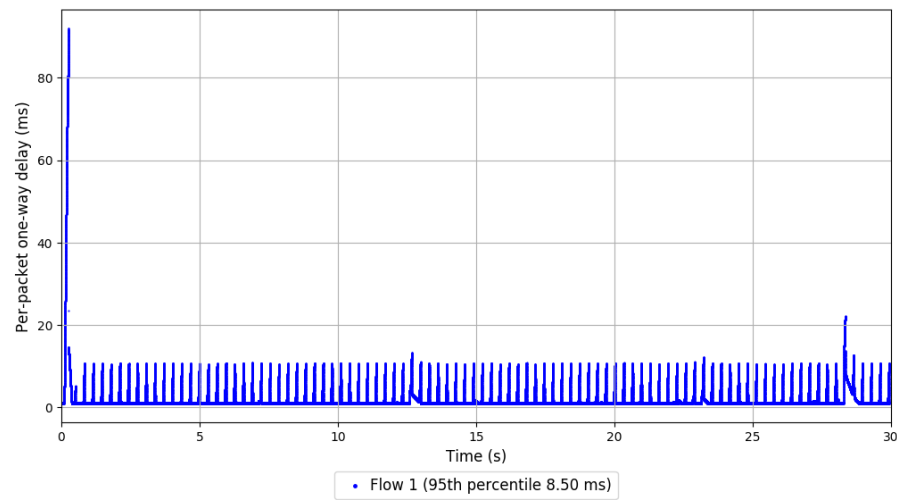
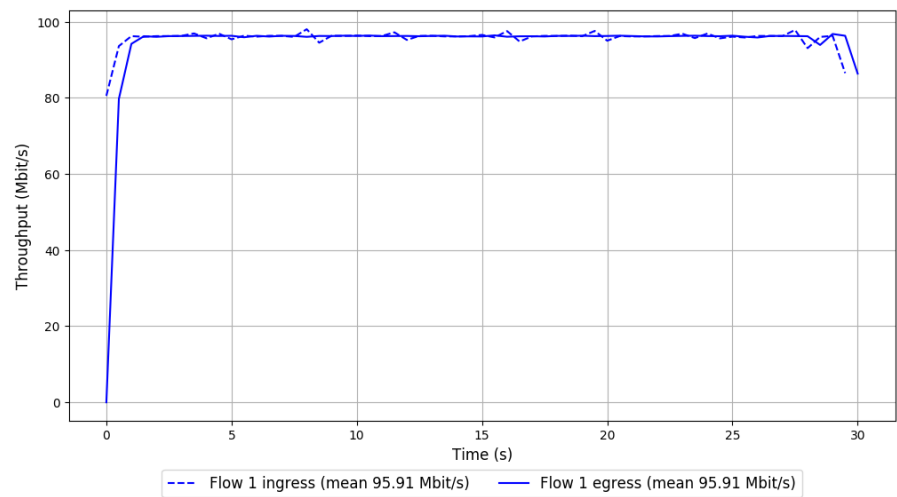
-- Flow 1:

Average throughput: 95.91 Mbit/s

95th percentile per-packet one-way delay: 8.502 ms

Loss rate: 0.01%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-10-03 07:38:36

End at: 2019-10-03 07:39:06

Local clock offset: -6.481 ms

Remote clock offset: 0.638 ms

Below is generated by plot.py at 2019-10-03 09:15:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.91 Mbit/s

95th percentile per-packet one-way delay: 8.369 ms

Loss rate: 0.01%

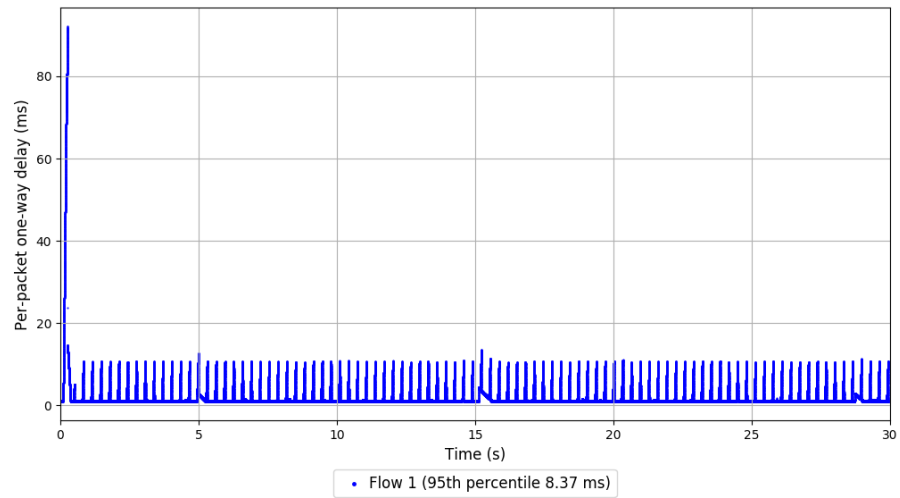
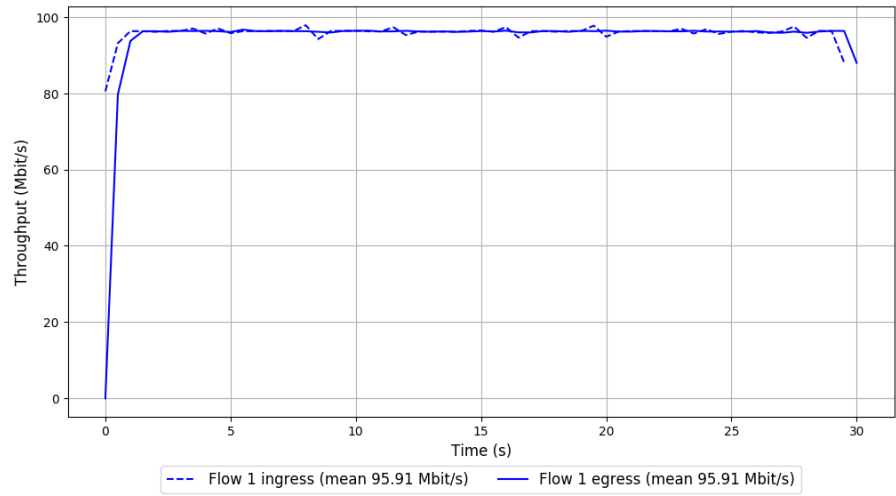
-- Flow 1:

Average throughput: 95.91 Mbit/s

95th percentile per-packet one-way delay: 8.369 ms

Loss rate: 0.01%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-10-03 08:05:25

End at: 2019-10-03 08:05:55

Local clock offset: -6.587 ms

Remote clock offset: 0.926 ms

Below is generated by plot.py at 2019-10-03 09:15:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.94 Mbit/s

95th percentile per-packet one-way delay: 8.369 ms

Loss rate: 0.01%

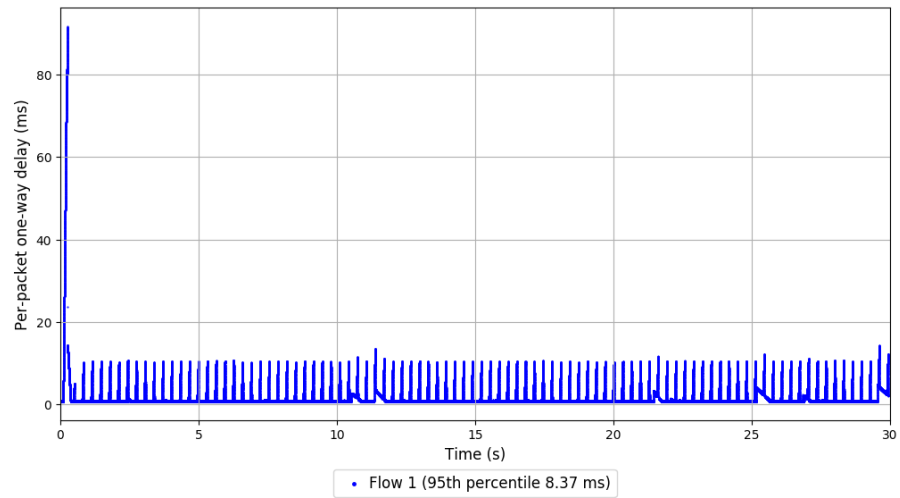
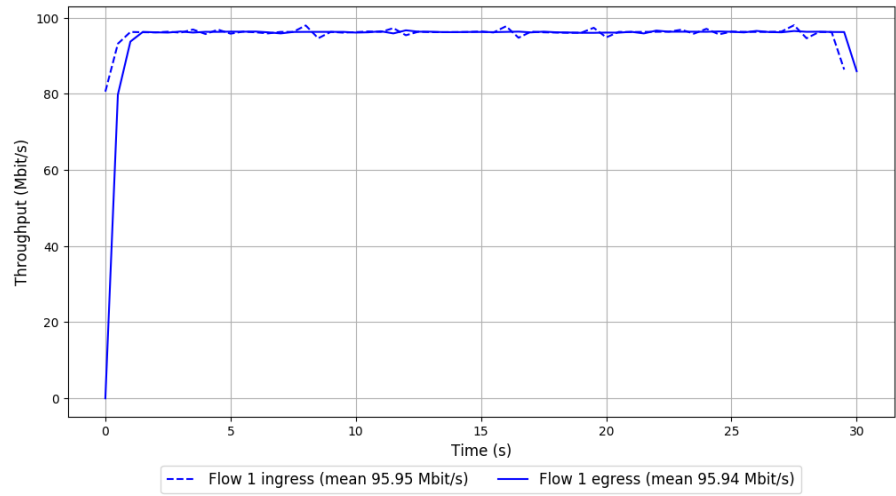
-- Flow 1:

Average throughput: 95.94 Mbit/s

95th percentile per-packet one-way delay: 8.369 ms

Loss rate: 0.01%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-10-03 08:32:18

End at: 2019-10-03 08:32:48

Local clock offset: -5.901 ms

Remote clock offset: 0.852 ms

Below is generated by plot.py at 2019-10-03 09:15:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.93 Mbit/s

95th percentile per-packet one-way delay: 8.452 ms

Loss rate: 0.01%

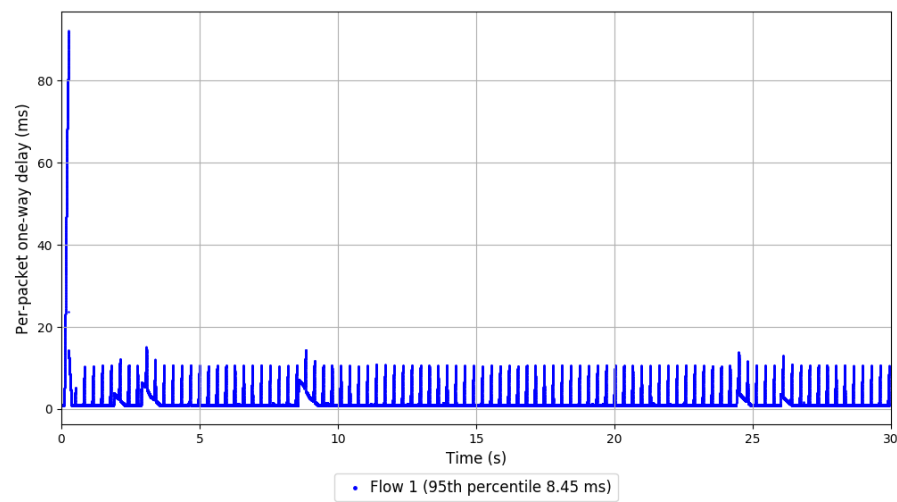
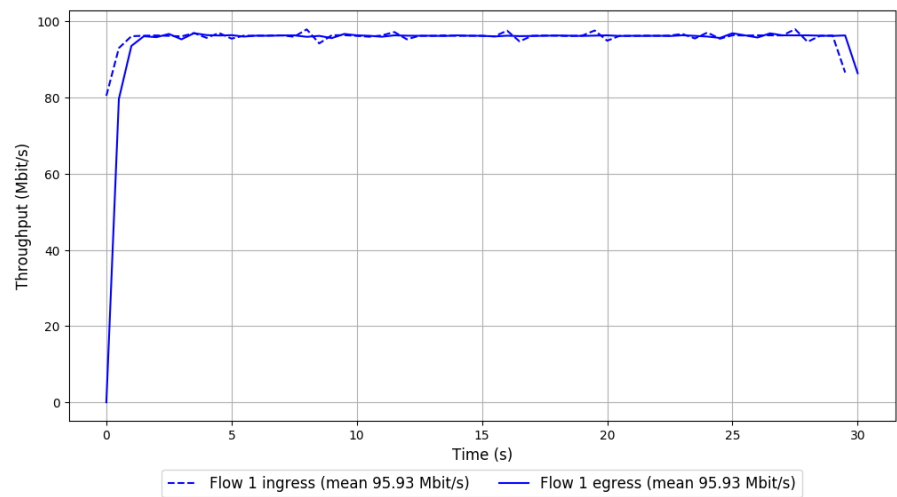
-- Flow 1:

Average throughput: 95.93 Mbit/s

95th percentile per-packet one-way delay: 8.452 ms

Loss rate: 0.01%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-10-03 08:59:11

End at: 2019-10-03 08:59:41

Local clock offset: -5.724 ms

Remote clock offset: 0.697 ms

Below is generated by plot.py at 2019-10-03 09:16:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.95 Mbit/s

95th percentile per-packet one-way delay: 8.501 ms

Loss rate: 0.01%

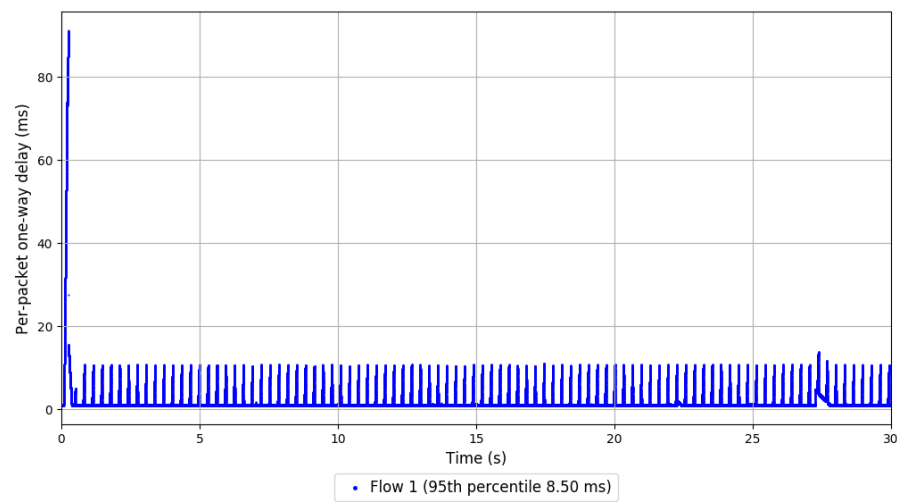
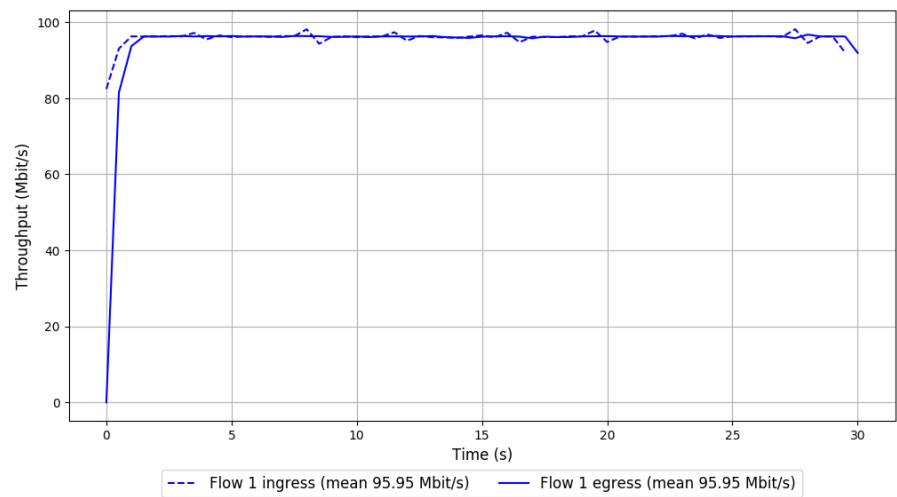
-- Flow 1:

Average throughput: 95.95 Mbit/s

95th percentile per-packet one-way delay: 8.501 ms

Loss rate: 0.01%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-10-03 07:21:46

End at: 2019-10-03 07:22:16

Local clock offset: -5.673 ms

Remote clock offset: 0.366 ms

Below is generated by plot.py at 2019-10-03 09:16:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.31 Mbit/s

95th percentile per-packet one-way delay: 4.835 ms

Loss rate: 0.01%

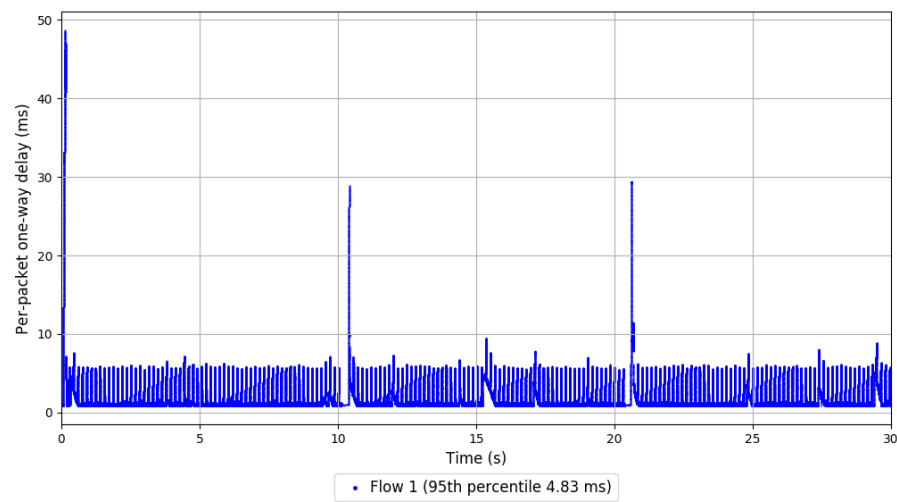
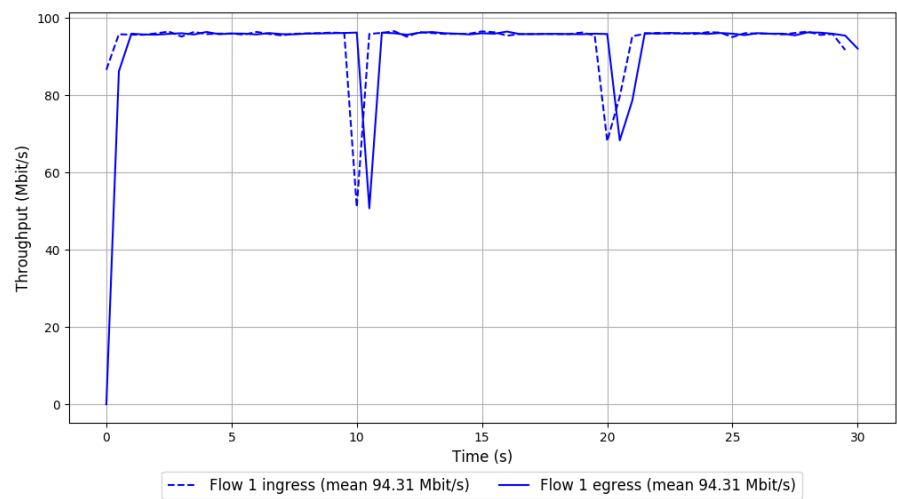
-- Flow 1:

Average throughput: 94.31 Mbit/s

95th percentile per-packet one-way delay: 4.835 ms

Loss rate: 0.01%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-10-03 07:48:34

End at: 2019-10-03 07:49:04

Local clock offset: -6.722 ms

Remote clock offset: 0.757 ms

Below is generated by plot.py at 2019-10-03 09:16:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.41 Mbit/s

95th percentile per-packet one-way delay: 4.933 ms

Loss rate: 0.01%

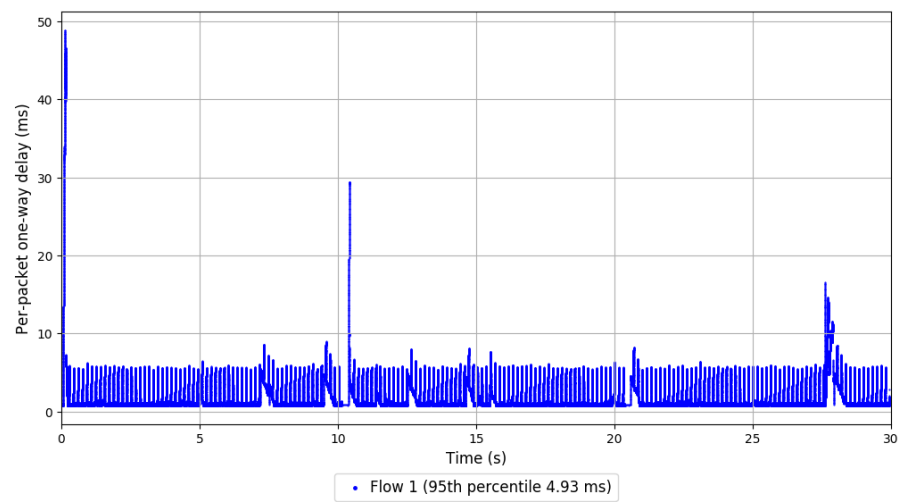
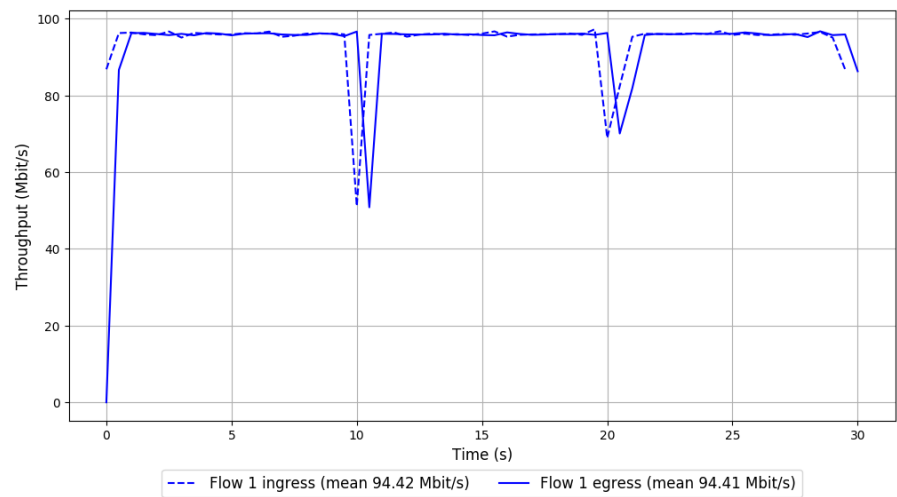
-- Flow 1:

Average throughput: 94.41 Mbit/s

95th percentile per-packet one-way delay: 4.933 ms

Loss rate: 0.01%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-10-03 08:15:23

End at: 2019-10-03 08:15:53

Local clock offset: -6.617 ms

Remote clock offset: 0.885 ms

Below is generated by plot.py at 2019-10-03 09:16:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.42 Mbit/s

95th percentile per-packet one-way delay: 4.568 ms

Loss rate: 0.01%

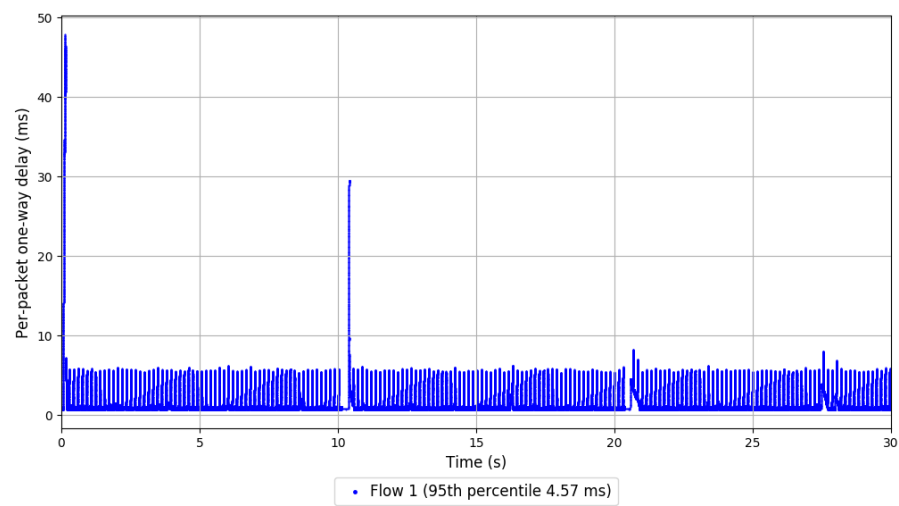
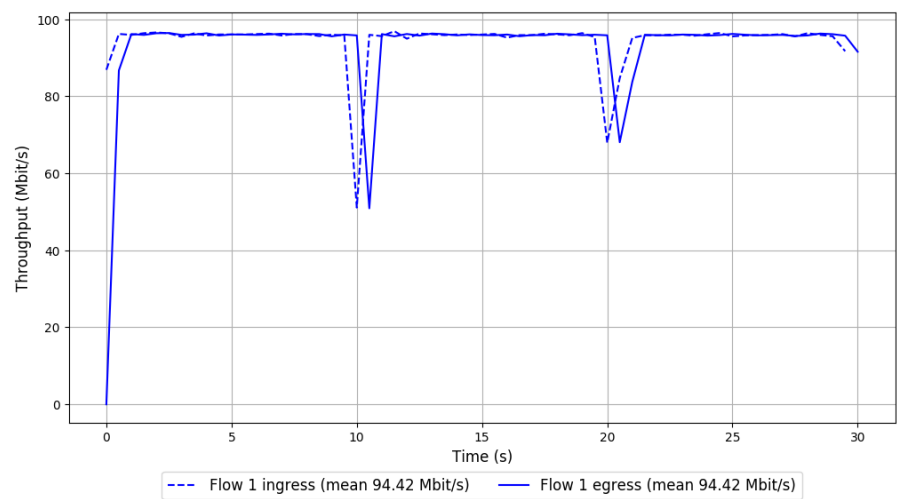
-- Flow 1:

Average throughput: 94.42 Mbit/s

95th percentile per-packet one-way delay: 4.568 ms

Loss rate: 0.01%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-10-03 08:42:16

End at: 2019-10-03 08:42:46

Local clock offset: -5.48 ms

Remote clock offset: 0.808 ms

Below is generated by plot.py at 2019-10-03 09:16:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.45 Mbit/s

95th percentile per-packet one-way delay: 4.912 ms

Loss rate: 0.01%

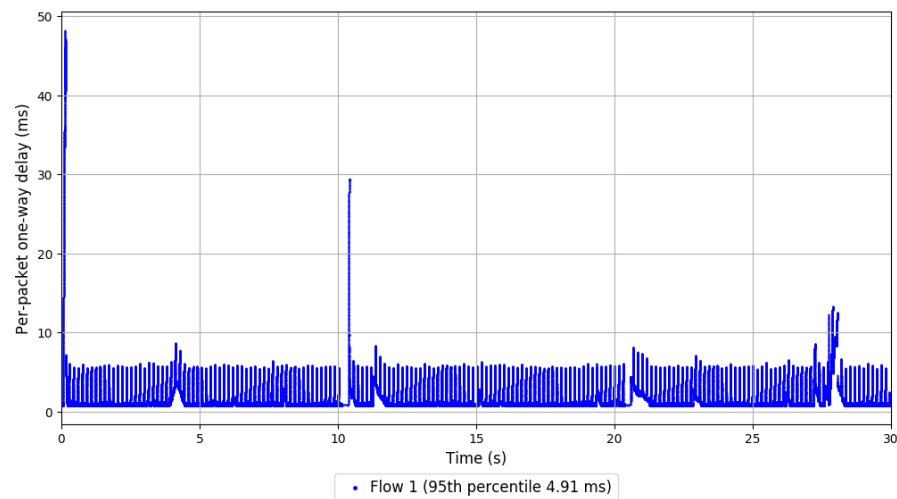
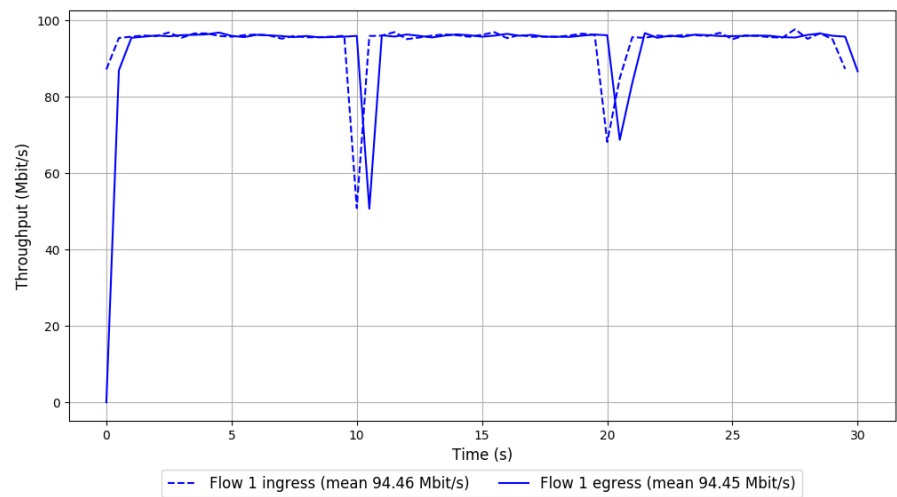
-- Flow 1:

Average throughput: 94.45 Mbit/s

95th percentile per-packet one-way delay: 4.912 ms

Loss rate: 0.01%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

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

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

Local clock offset: -6.322 ms

Remote clock offset: 0.652 ms

Below is generated by plot.py at 2019-10-03 09:16:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.30 Mbit/s

95th percentile per-packet one-way delay: 4.909 ms

Loss rate: 0.01%

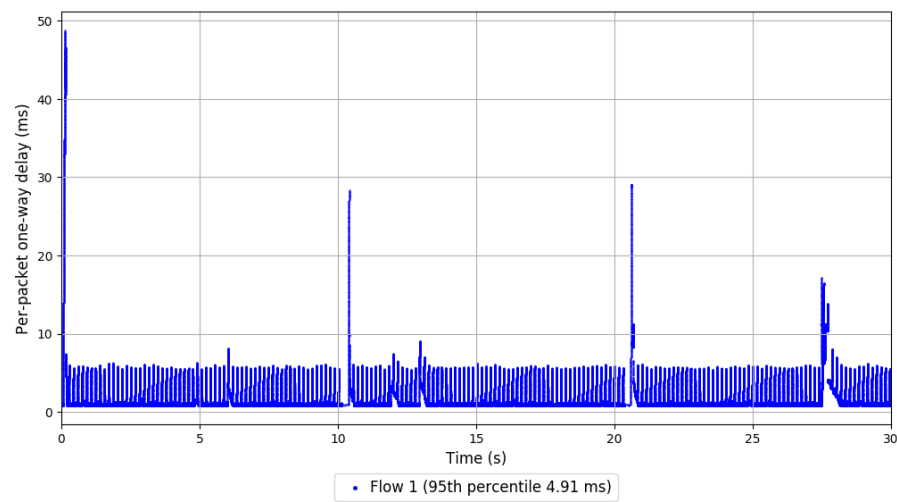
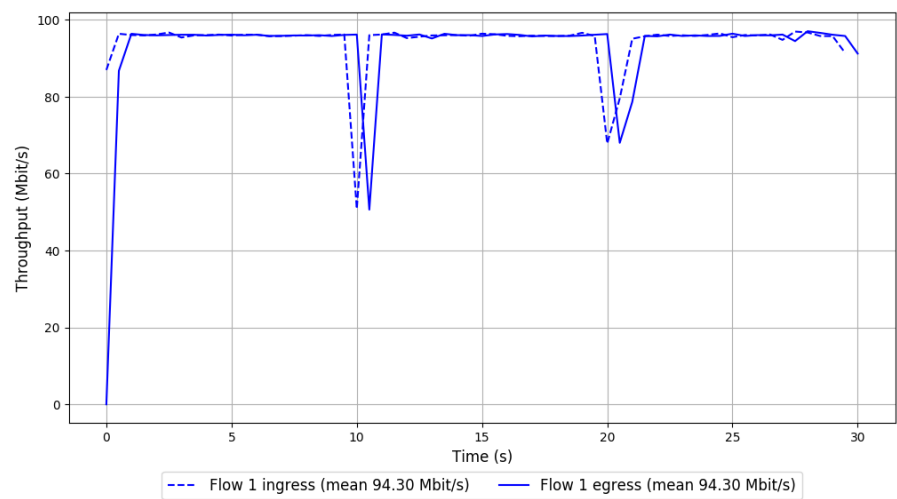
-- Flow 1:

Average throughput: 94.30 Mbit/s

95th percentile per-packet one-way delay: 4.909 ms

Loss rate: 0.01%

Run 5: Report of FillP-Sheep — Data Link

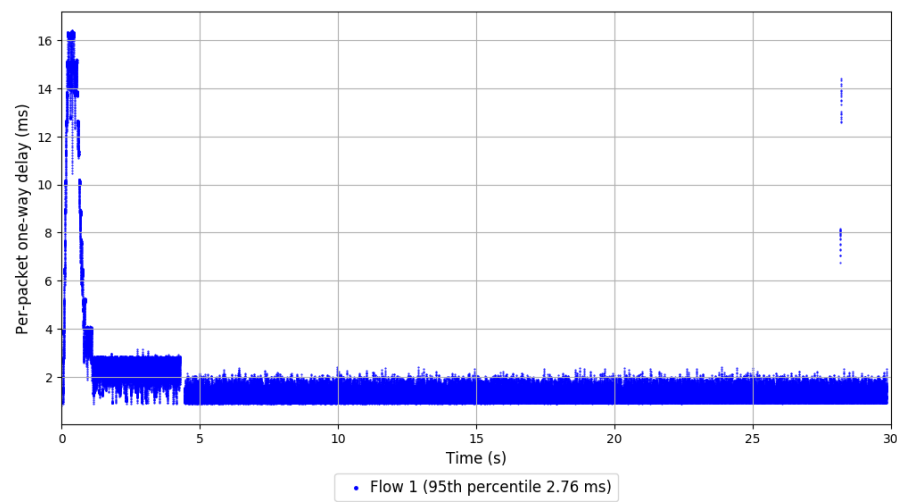
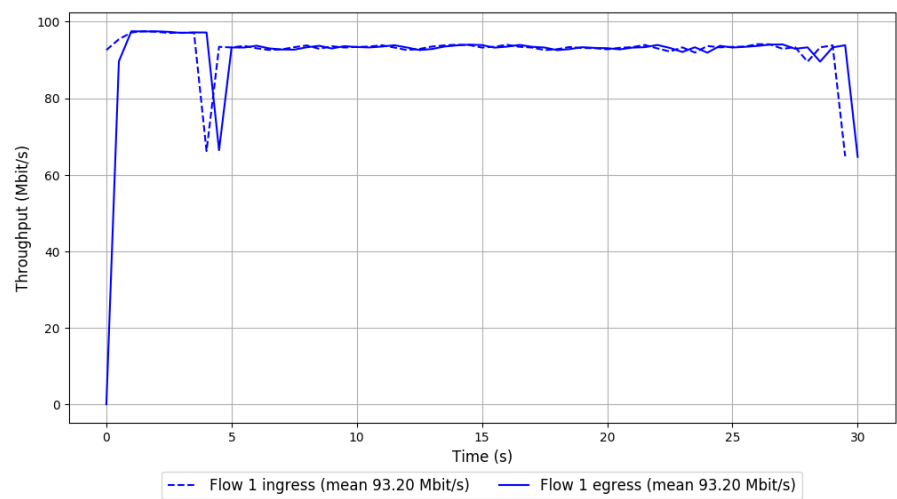


```
Run 1: Statistics of Indigo

Start at: 2019-10-03 06:57:07
End at: 2019-10-03 06:57:37
Local clock offset: -5.519 ms
Remote clock offset: 0.21 ms

# Below is generated by plot.py at 2019-10-03 09:16:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.20 Mbit/s
95th percentile per-packet one-way delay: 2.762 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 93.20 Mbit/s
95th percentile per-packet one-way delay: 2.762 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-10-03 07:24:01

End at: 2019-10-03 07:24:31

Local clock offset: -5.732 ms

Remote clock offset: 0.4 ms

Below is generated by plot.py at 2019-10-03 09:16:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.15 Mbit/s

95th percentile per-packet one-way delay: 2.823 ms

Loss rate: 0.01%

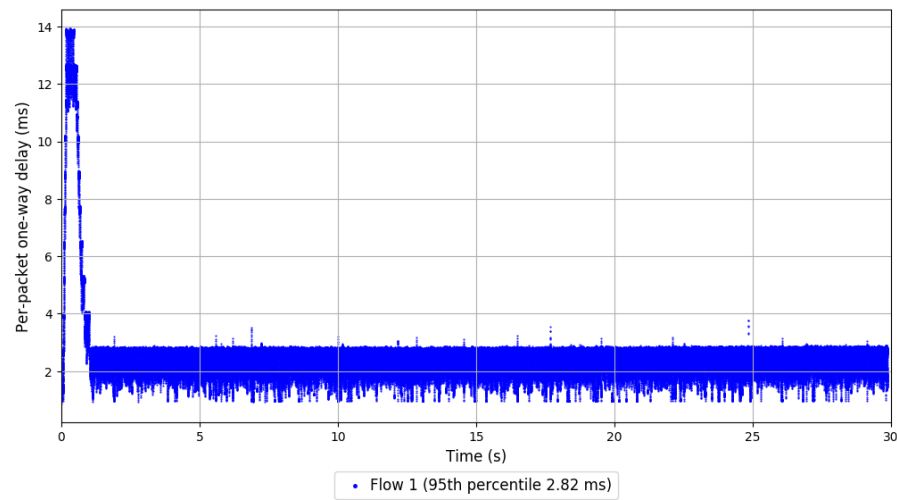
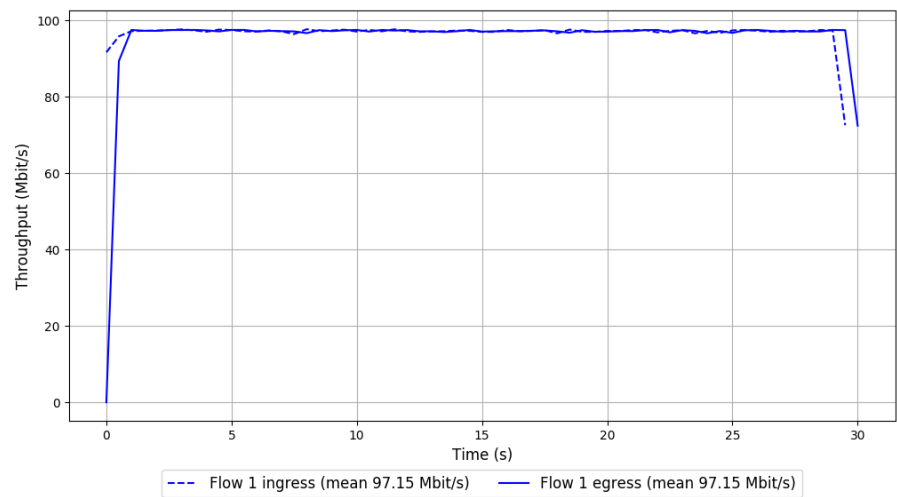
-- Flow 1:

Average throughput: 97.15 Mbit/s

95th percentile per-packet one-way delay: 2.823 ms

Loss rate: 0.01%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-10-03 07:50:48

End at: 2019-10-03 07:51:18

Local clock offset: -6.837 ms

Remote clock offset: 0.725 ms

Below is generated by plot.py at 2019-10-03 09:17:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.08 Mbit/s

95th percentile per-packet one-way delay: 2.745 ms

Loss rate: 0.01%

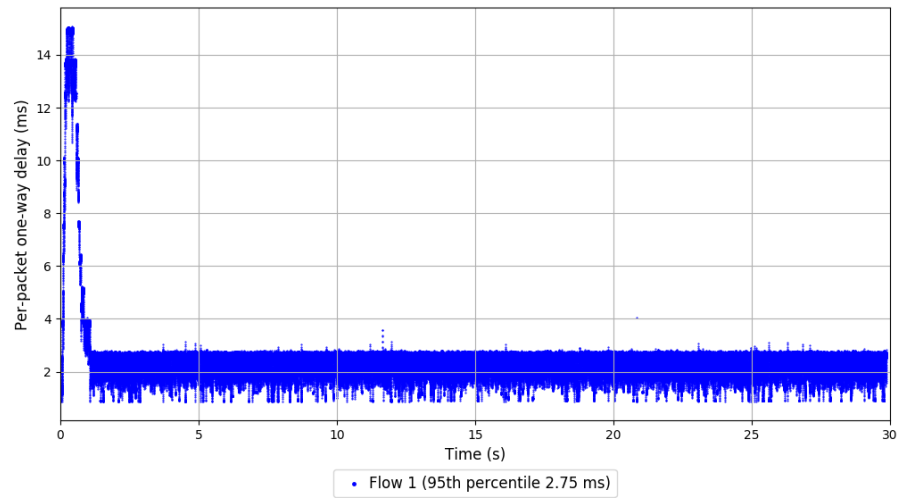
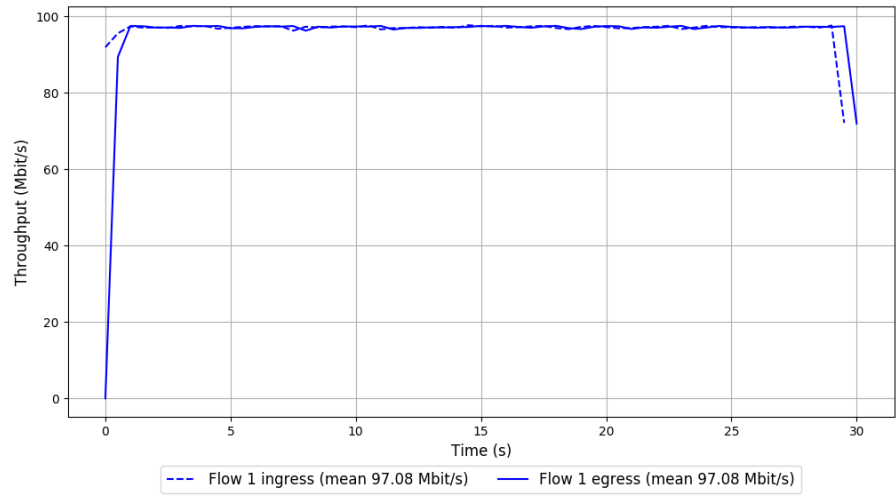
-- Flow 1:

Average throughput: 97.08 Mbit/s

95th percentile per-packet one-way delay: 2.745 ms

Loss rate: 0.01%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-10-03 08:17:37

End at: 2019-10-03 08:18:07

Local clock offset: -6.553 ms

Remote clock offset: 0.784 ms

Below is generated by plot.py at 2019-10-03 09:17:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.12 Mbit/s

95th percentile per-packet one-way delay: 2.900 ms

Loss rate: 0.02%

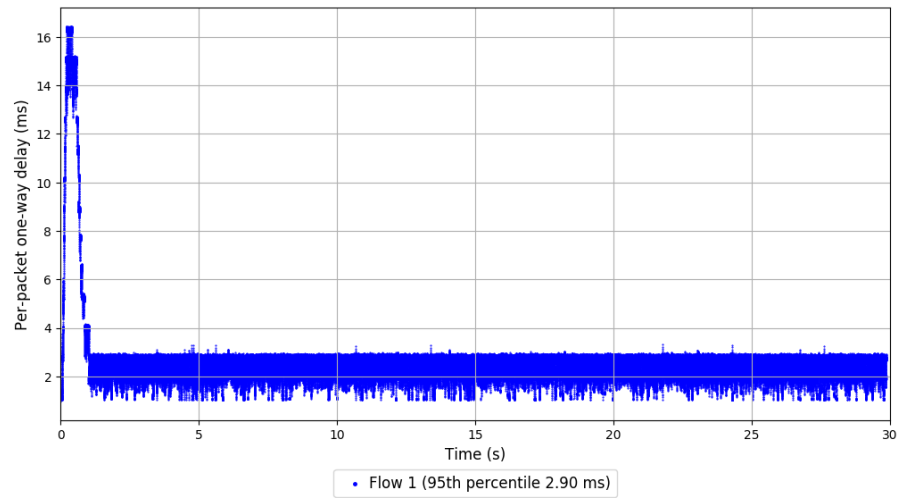
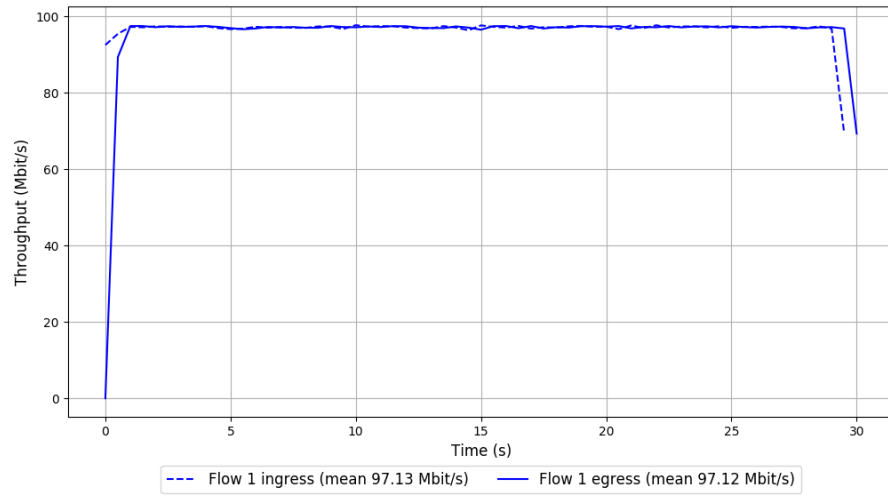
-- Flow 1:

Average throughput: 97.12 Mbit/s

95th percentile per-packet one-way delay: 2.900 ms

Loss rate: 0.02%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-10-03 08:44:30

End at: 2019-10-03 08:45:00

Local clock offset: -5.491 ms

Remote clock offset: 0.795 ms

Below is generated by plot.py at 2019-10-03 09:17:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.10 Mbit/s

95th percentile per-packet one-way delay: 2.753 ms

Loss rate: 0.04%

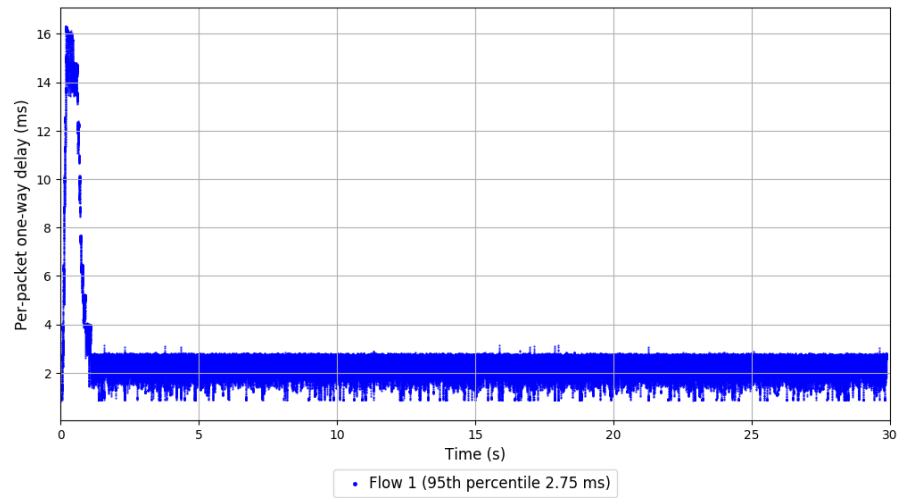
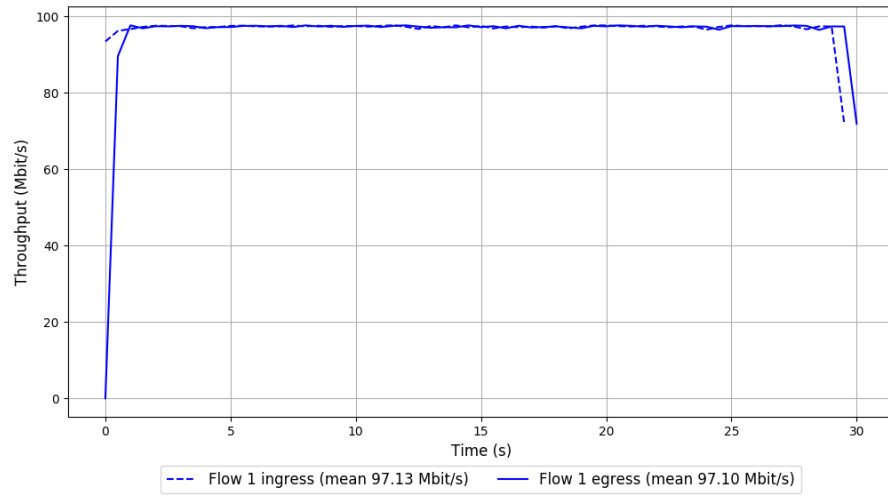
-- Flow 1:

Average throughput: 97.10 Mbit/s

95th percentile per-packet one-way delay: 2.753 ms

Loss rate: 0.04%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-10-03 07:18:29

End at: 2019-10-03 07:18:59

Local clock offset: -5.667 ms

Remote clock offset: 0.389 ms

Below is generated by plot.py at 2019-10-03 09:17:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.71 Mbit/s

95th percentile per-packet one-way delay: 2.673 ms

Loss rate: 0.00%

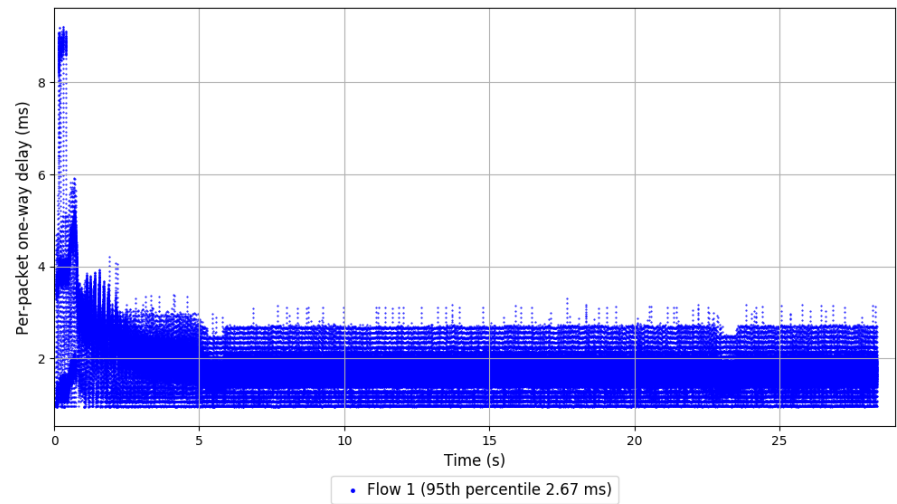
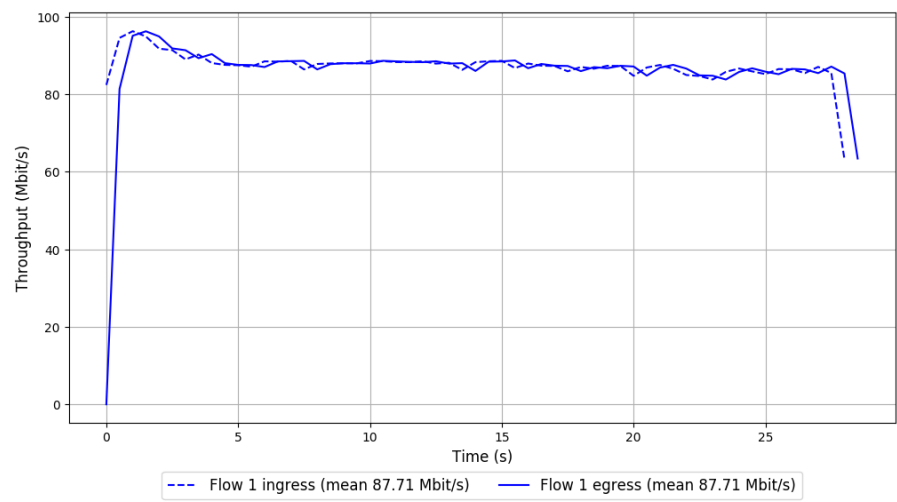
-- Flow 1:

Average throughput: 87.71 Mbit/s

95th percentile per-packet one-way delay: 2.673 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-10-03 07:45:16

End at: 2019-10-03 07:45:46

Local clock offset: -6.67 ms

Remote clock offset: 0.612 ms

Below is generated by plot.py at 2019-10-03 09:17:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.21 Mbit/s

95th percentile per-packet one-way delay: 2.754 ms

Loss rate: 0.01%

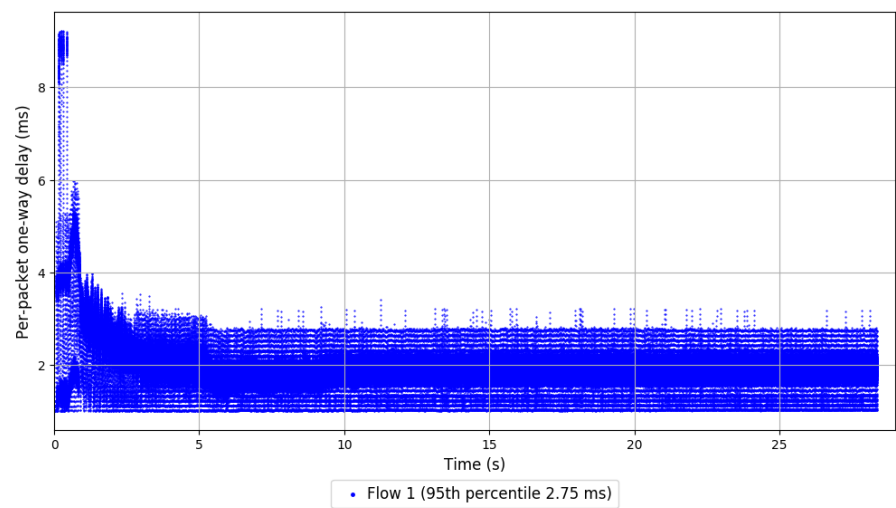
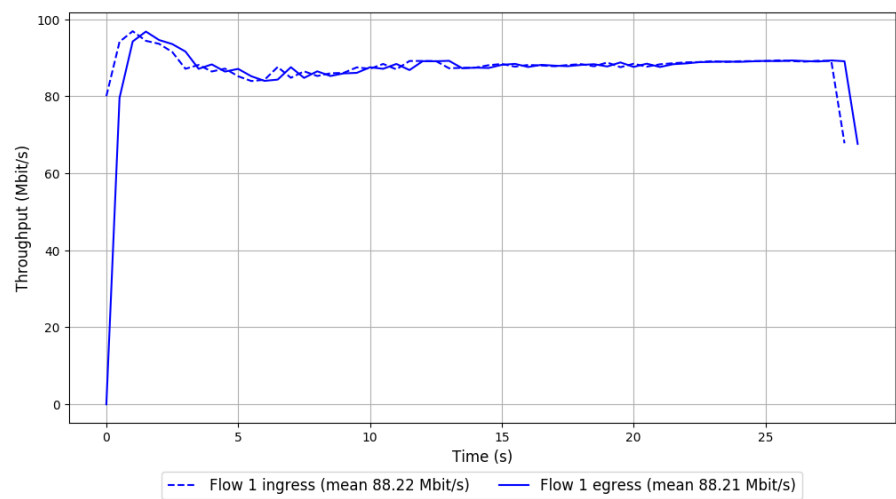
-- Flow 1:

Average throughput: 88.21 Mbit/s

95th percentile per-packet one-way delay: 2.754 ms

Loss rate: 0.01%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-10-03 08:12:05

End at: 2019-10-03 08:12:35

Local clock offset: -6.561 ms

Remote clock offset: 0.937 ms

Below is generated by plot.py at 2019-10-03 09:17:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.82 Mbit/s

95th percentile per-packet one-way delay: 2.672 ms

Loss rate: 0.01%

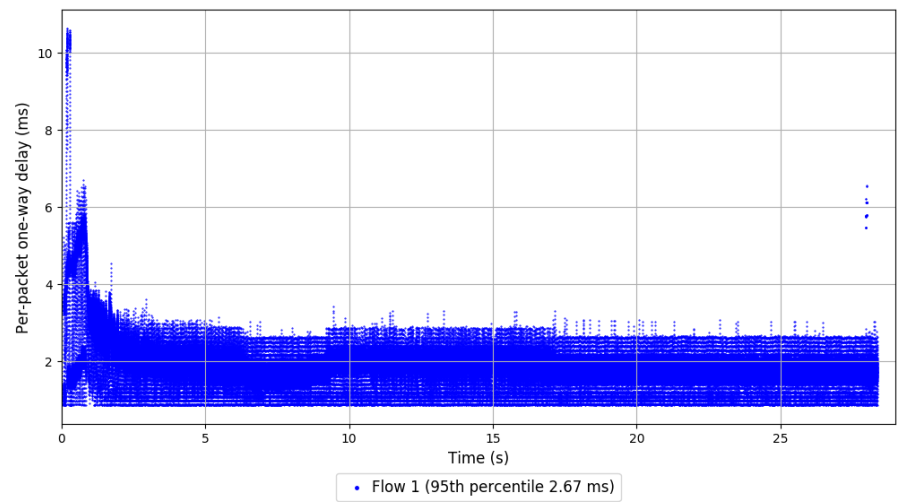
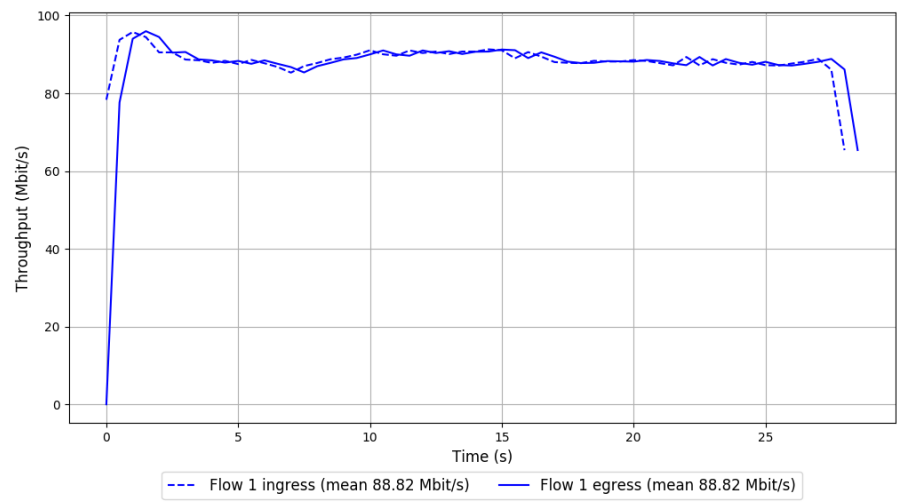
-- Flow 1:

Average throughput: 88.82 Mbit/s

95th percentile per-packet one-way delay: 2.672 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesC3 — Data Link

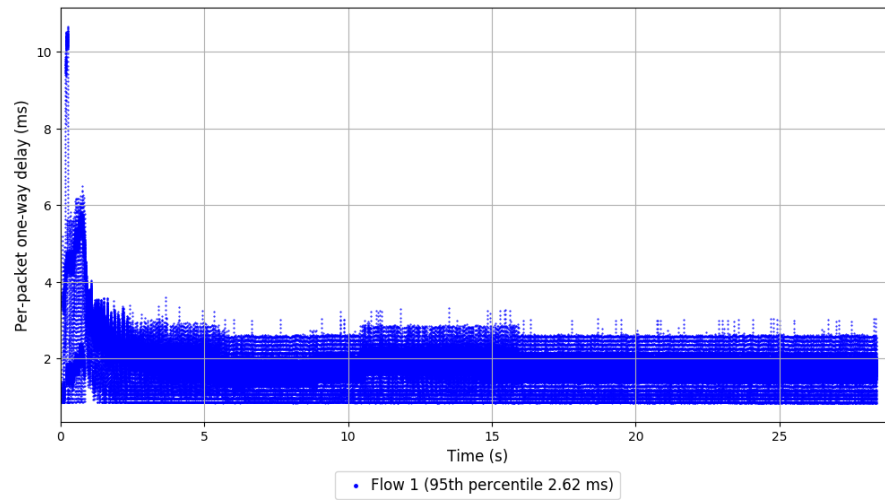
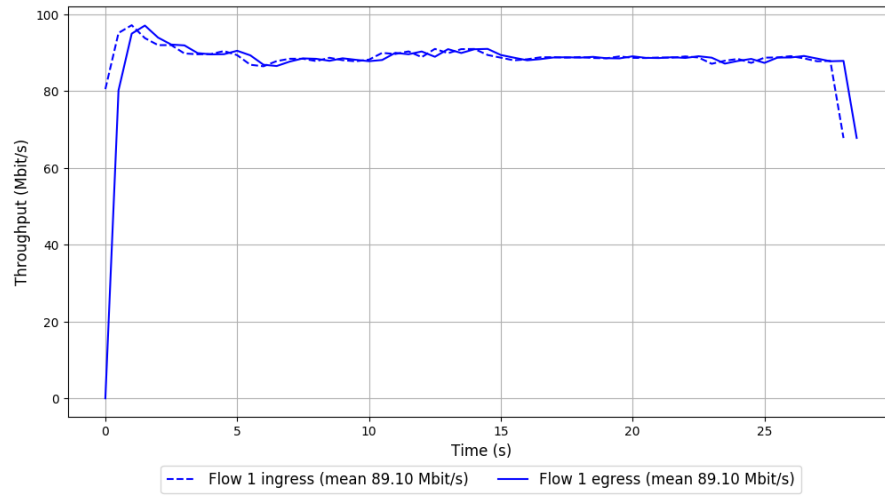


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-10-03 08:38:58
End at: 2019-10-03 08:39:28
Local clock offset: -5.643 ms
Remote clock offset: 0.833 ms

Below is generated by plot.py at 2019-10-03 09:17:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.10 Mbit/s
95th percentile per-packet one-way delay: 2.617 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 89.10 Mbit/s
95th percentile per-packet one-way delay: 2.617 ms
Loss rate: 0.01%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-10-03 09:05:51

End at: 2019-10-03 09:06:21

Local clock offset: -6.165 ms

Remote clock offset: 0.7 ms

Below is generated by plot.py at 2019-10-03 09:17:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.74 Mbit/s

95th percentile per-packet one-way delay: 2.827 ms

Loss rate: 0.01%

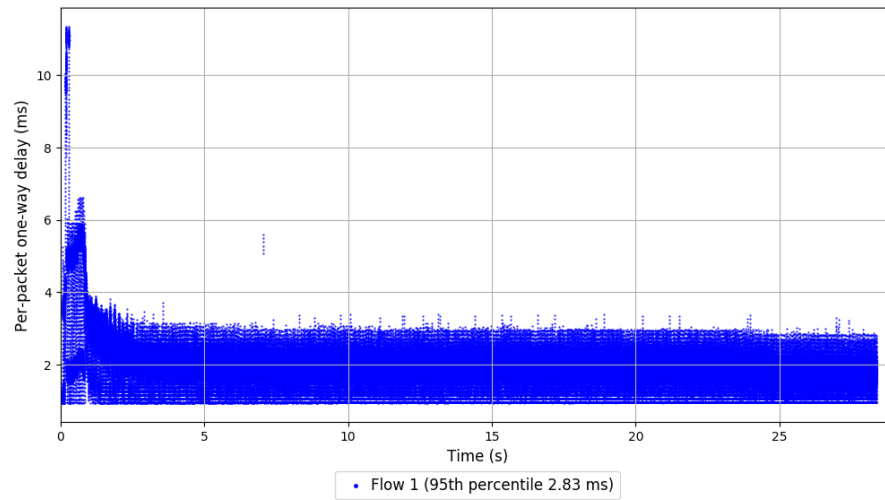
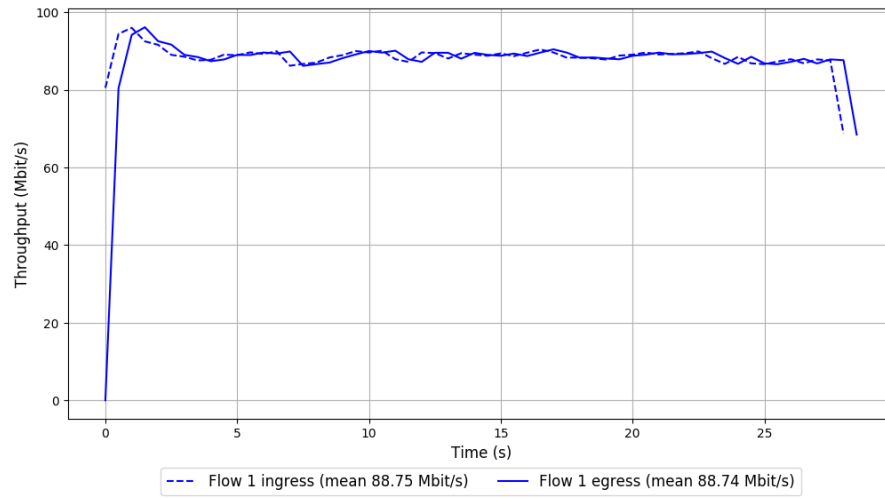
-- Flow 1:

Average throughput: 88.74 Mbit/s

95th percentile per-packet one-way delay: 2.827 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-10-03 07:19:36

End at: 2019-10-03 07:20:06

Local clock offset: -5.677 ms

Remote clock offset: 0.379 ms

Below is generated by plot.py at 2019-10-03 09:17:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.12 Mbit/s

95th percentile per-packet one-way delay: 2.541 ms

Loss rate: 0.01%

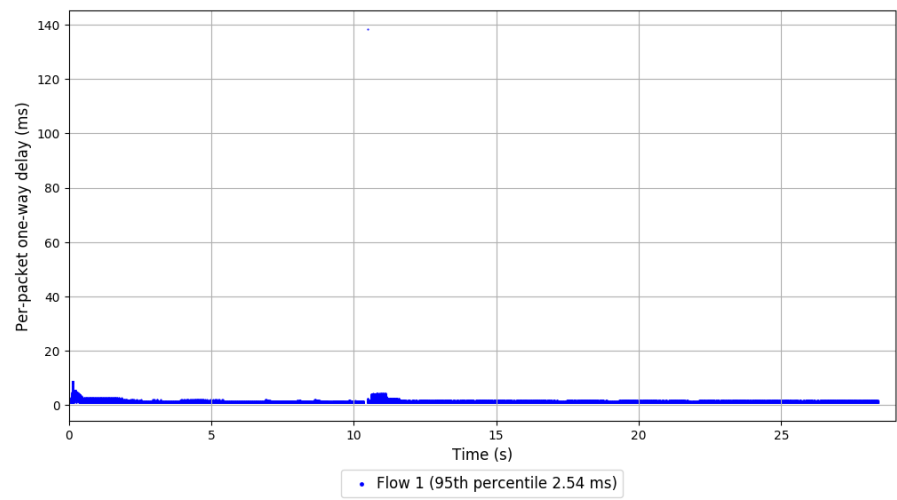
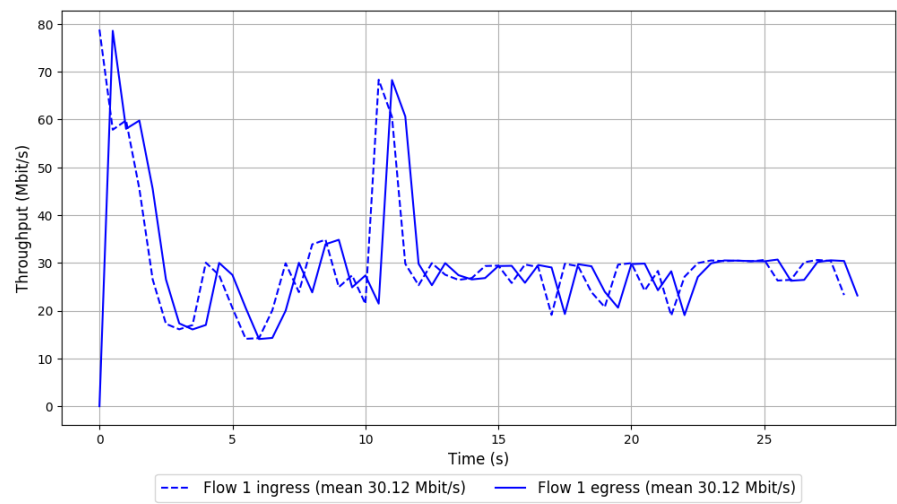
-- Flow 1:

Average throughput: 30.12 Mbit/s

95th percentile per-packet one-way delay: 2.541 ms

Loss rate: 0.01%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-10-03 07:46:24

End at: 2019-10-03 07:46:54

Local clock offset: -6.684 ms

Remote clock offset: 0.636 ms

Below is generated by plot.py at 2019-10-03 09:17:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.59 Mbit/s

95th percentile per-packet one-way delay: 3.527 ms

Loss rate: 0.00%

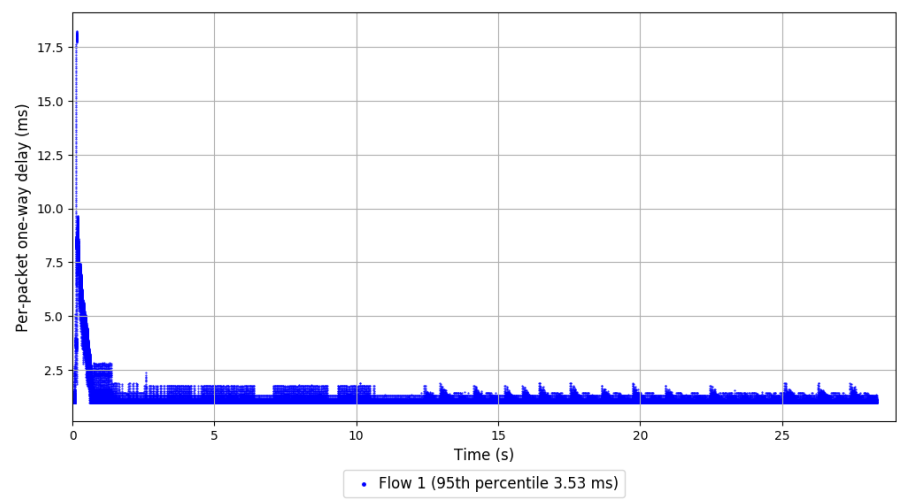
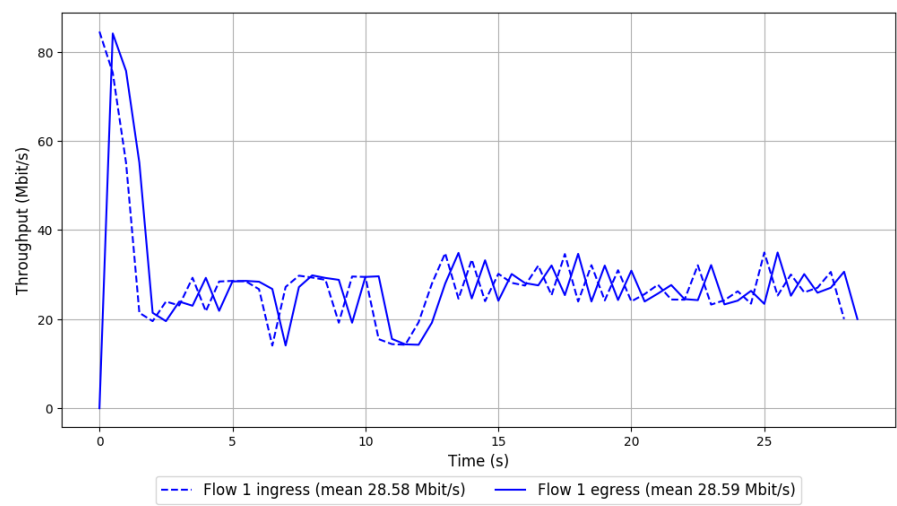
-- Flow 1:

Average throughput: 28.59 Mbit/s

95th percentile per-packet one-way delay: 3.527 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesC5 — Data Link

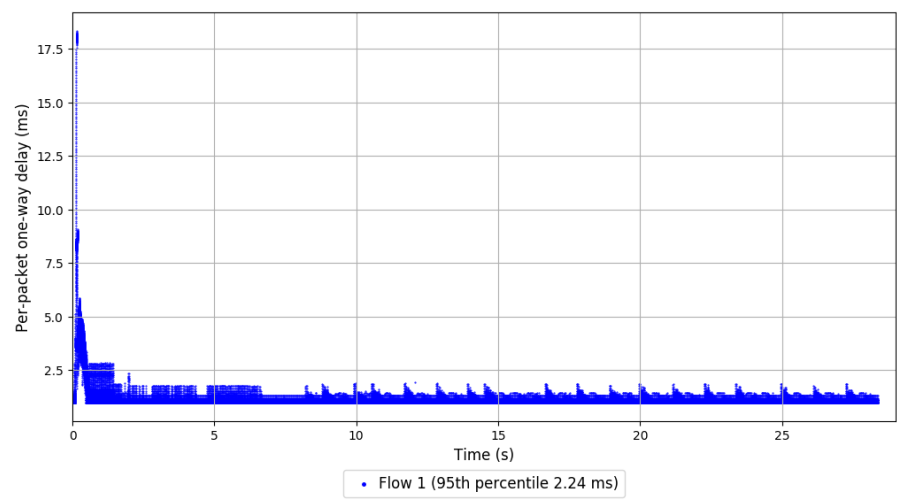
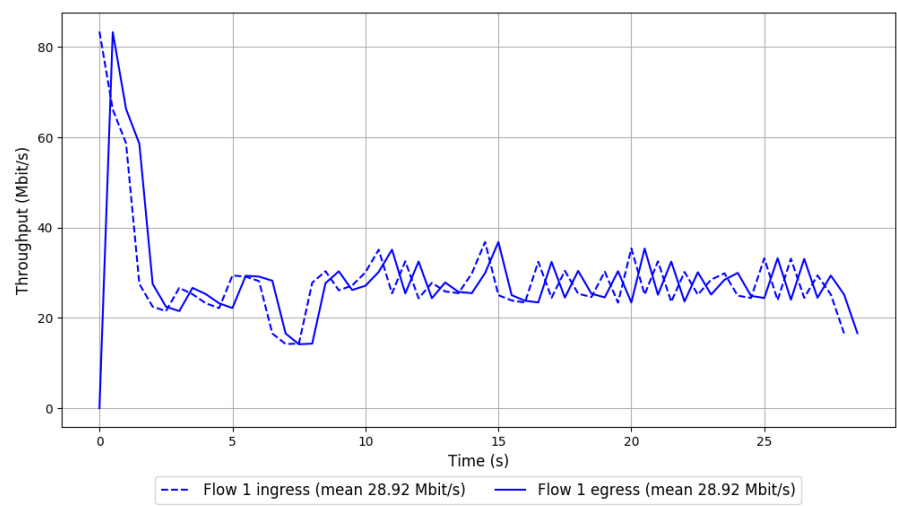


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-10-03 08:13:13
End at: 2019-10-03 08:13:43
Local clock offset: -6.552 ms
Remote clock offset: 0.841 ms

Below is generated by plot.py at 2019-10-03 09:17:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 28.92 Mbit/s
95th percentile per-packet one-way delay: 2.241 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 28.92 Mbit/s
95th percentile per-packet one-way delay: 2.241 ms
Loss rate: 0.00%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-10-03 08:40:05

End at: 2019-10-03 08:40:35

Local clock offset: -5.515 ms

Remote clock offset: 0.799 ms

Below is generated by plot.py at 2019-10-03 09:17:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.77 Mbit/s

95th percentile per-packet one-way delay: 1.853 ms

Loss rate: 0.00%

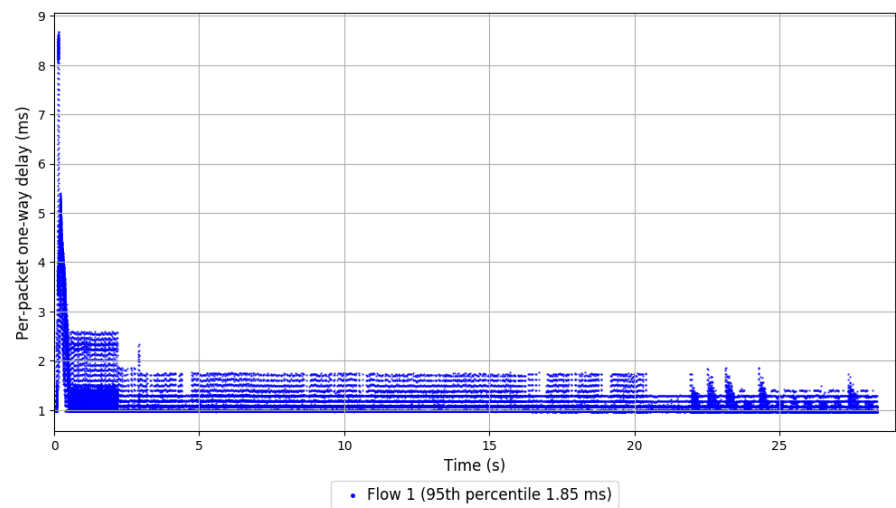
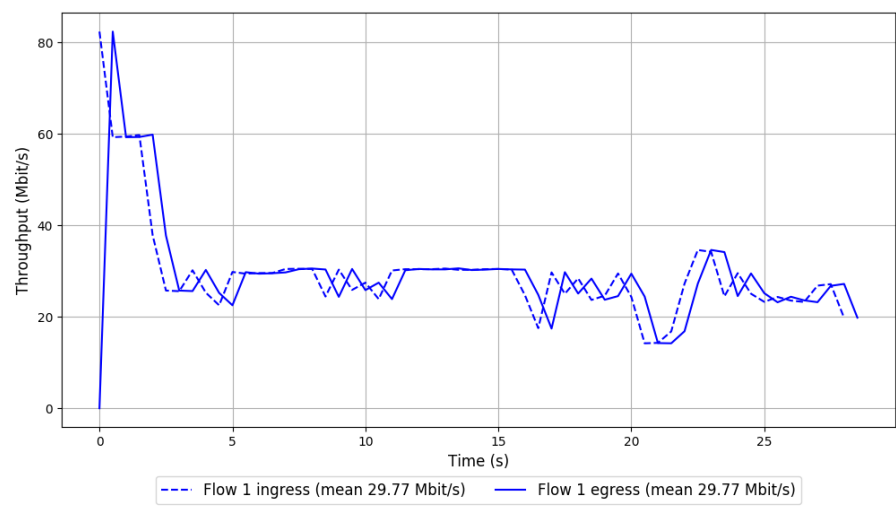
-- Flow 1:

Average throughput: 29.77 Mbit/s

95th percentile per-packet one-way delay: 1.853 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-10-03 09:06:59

End at: 2019-10-03 09:07:29

Local clock offset: -6.242 ms

Remote clock offset: 0.674 ms

Below is generated by plot.py at 2019-10-03 09:17:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.37 Mbit/s

95th percentile per-packet one-way delay: 3.115 ms

Loss rate: 0.01%

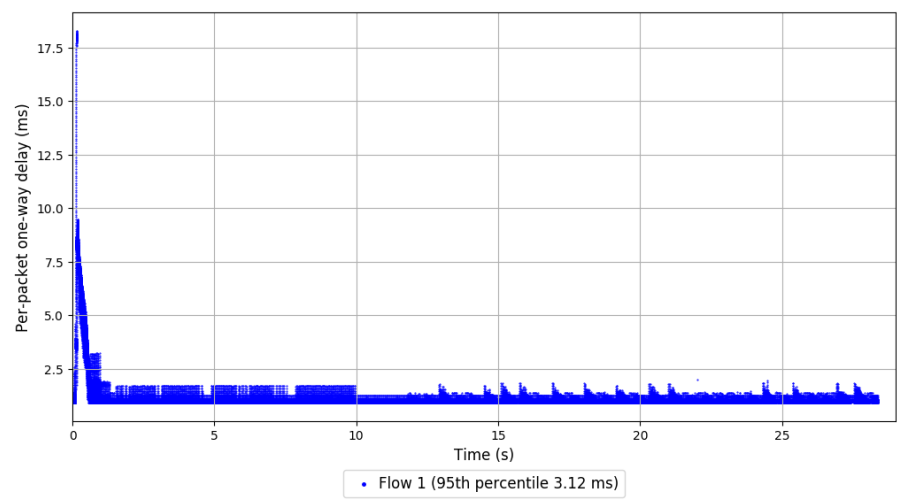
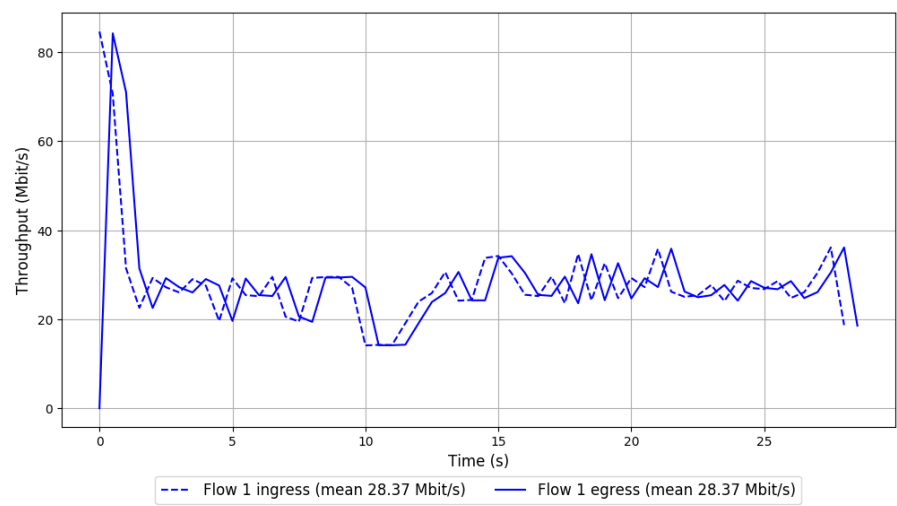
-- Flow 1:

Average throughput: 28.37 Mbit/s

95th percentile per-packet one-way delay: 3.115 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesC5 — Data Link

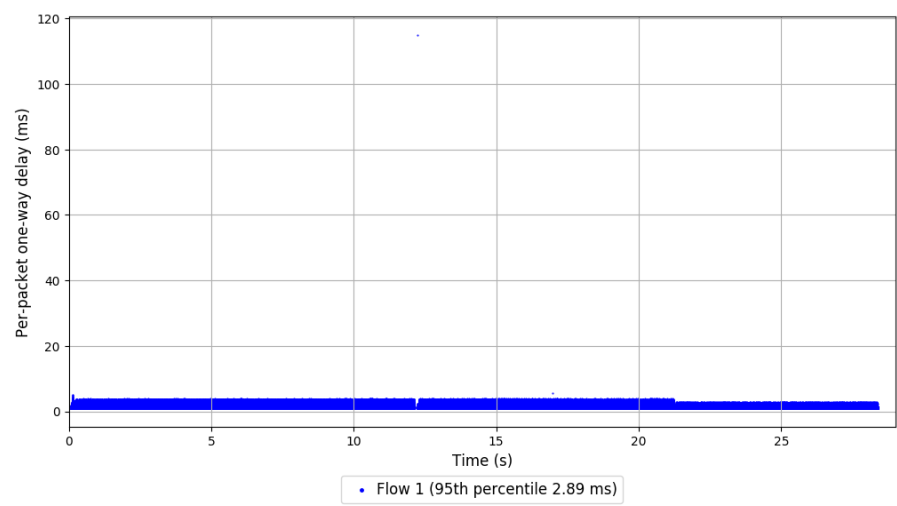
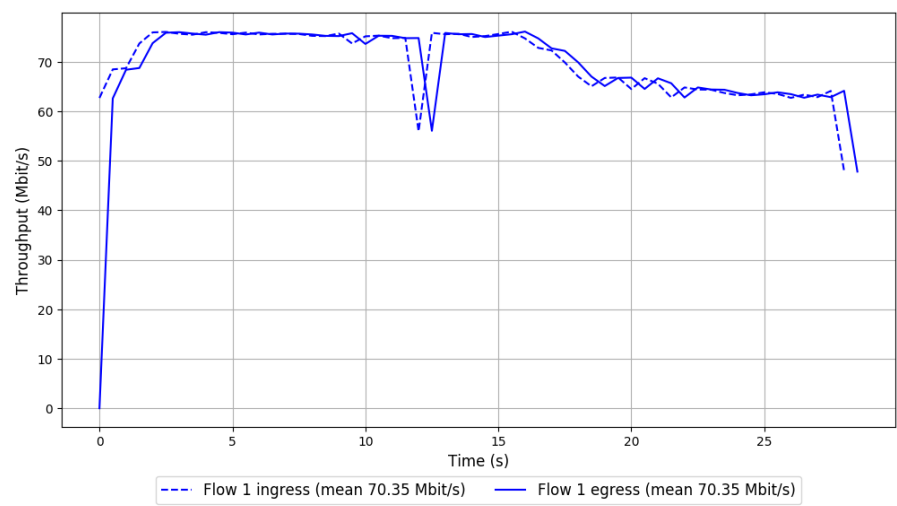



```
Run 1: Statistics of Indigo-MusesD

Start at: 2019-10-03 06:58:16
End at: 2019-10-03 06:58:46
Local clock offset: -5.545 ms
Remote clock offset: 0.197 ms

# Below is generated by plot.py at 2019-10-03 09:18:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.35 Mbit/s
95th percentile per-packet one-way delay: 2.894 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 70.35 Mbit/s
95th percentile per-packet one-way delay: 2.894 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

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

End at: 2019-10-03 07:25:40

Local clock offset: -5.755 ms

Remote clock offset: 0.404 ms

Below is generated by plot.py at 2019-10-03 09:18:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.32 Mbit/s

95th percentile per-packet one-way delay: 2.833 ms

Loss rate: 0.01%

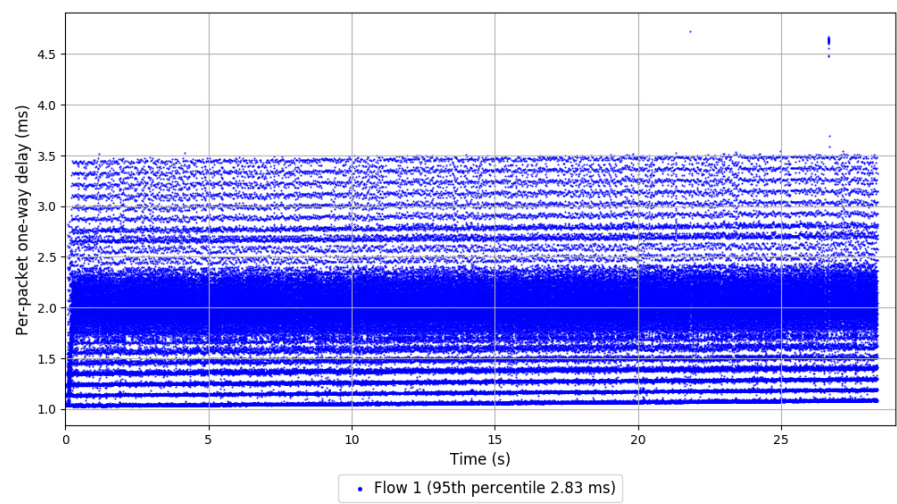
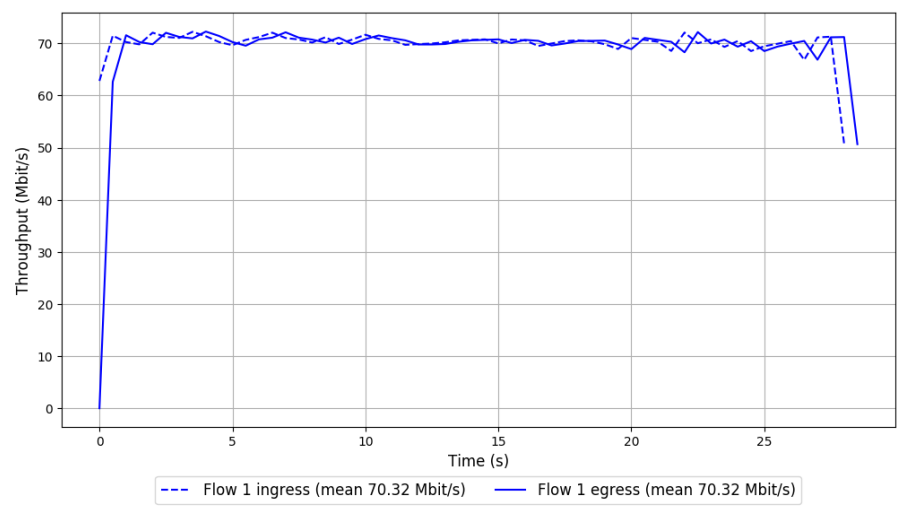
-- Flow 1:

Average throughput: 70.32 Mbit/s

95th percentile per-packet one-way delay: 2.833 ms

Loss rate: 0.01%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-10-03 07:51:57

End at: 2019-10-03 07:52:27

Local clock offset: -6.786 ms

Remote clock offset: 0.739 ms

Below is generated by plot.py at 2019-10-03 09:18:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.26 Mbit/s

95th percentile per-packet one-way delay: 3.005 ms

Loss rate: 0.01%

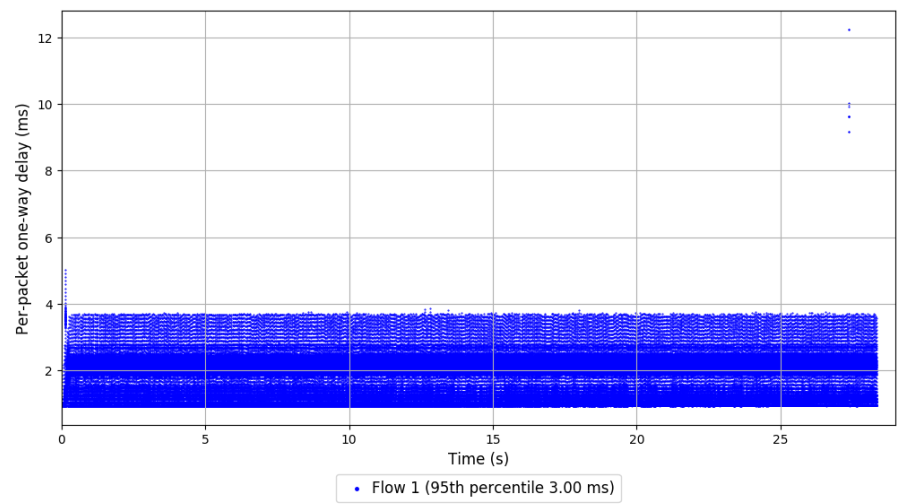
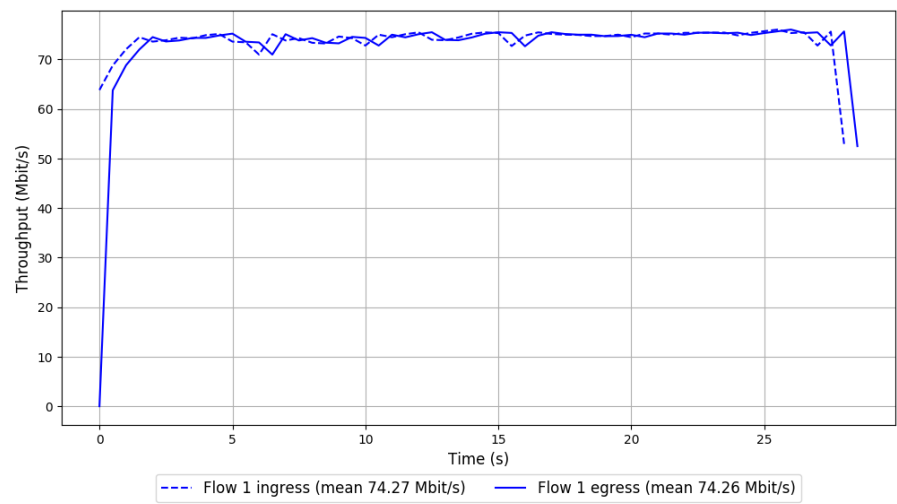
-- Flow 1:

Average throughput: 74.26 Mbit/s

95th percentile per-packet one-way delay: 3.005 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-10-03 08:18:46

End at: 2019-10-03 08:19:16

Local clock offset: -6.56 ms

Remote clock offset: 0.877 ms

Below is generated by plot.py at 2019-10-03 09:18:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.18 Mbit/s

95th percentile per-packet one-way delay: 3.121 ms

Loss rate: 0.01%

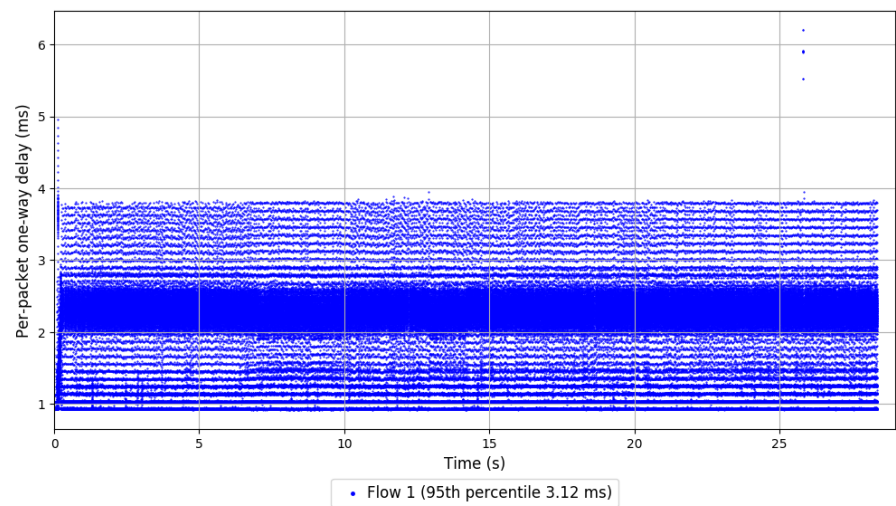
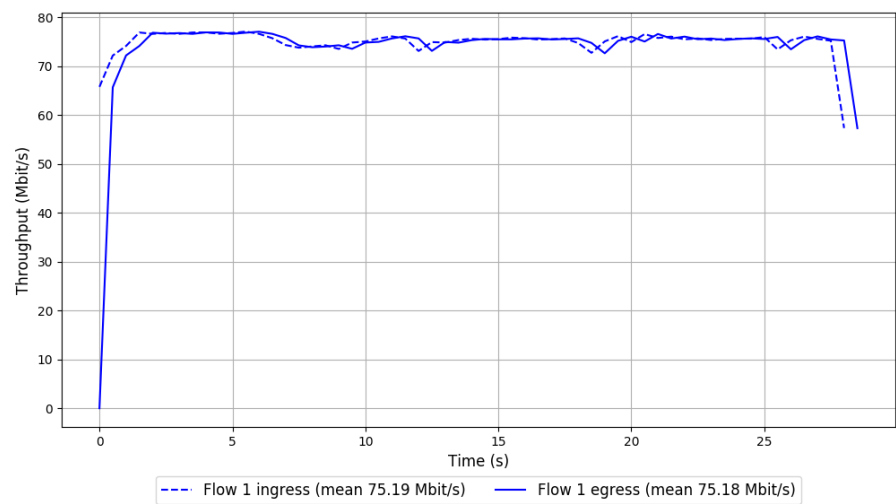
-- Flow 1:

Average throughput: 75.18 Mbit/s

95th percentile per-packet one-way delay: 3.121 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-10-03 08:45:39

End at: 2019-10-03 08:46:09

Local clock offset: -5.384 ms

Remote clock offset: 0.777 ms

Below is generated by plot.py at 2019-10-03 09:18:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.99 Mbit/s

95th percentile per-packet one-way delay: 2.823 ms

Loss rate: 0.01%

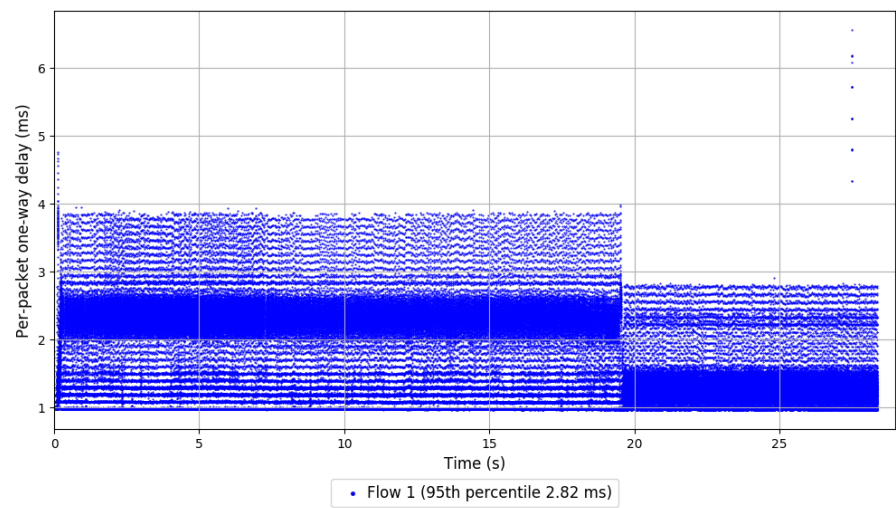
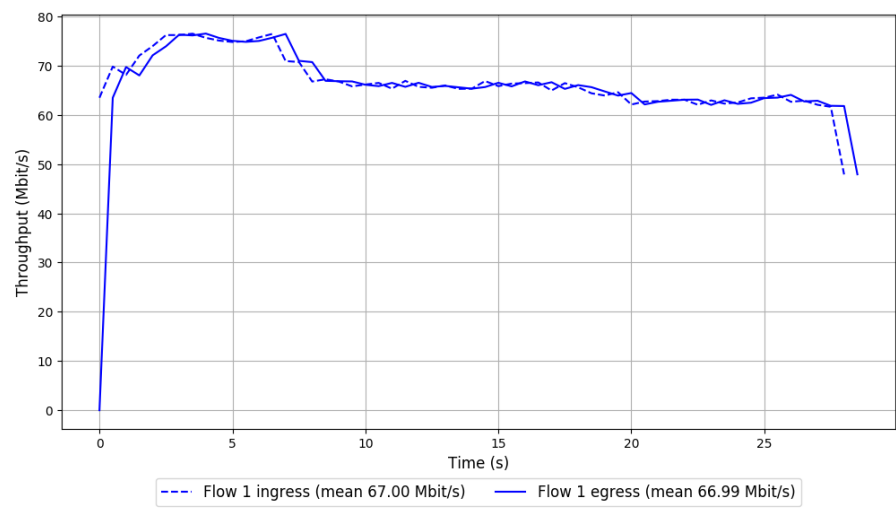
-- Flow 1:

Average throughput: 66.99 Mbit/s

95th percentile per-packet one-way delay: 2.823 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-10-03 07:06:18

End at: 2019-10-03 07:06:48

Local clock offset: -5.608 ms

Remote clock offset: 0.303 ms

Below is generated by plot.py at 2019-10-03 09:18:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.94 Mbit/s

95th percentile per-packet one-way delay: 2.165 ms

Loss rate: 0.01%

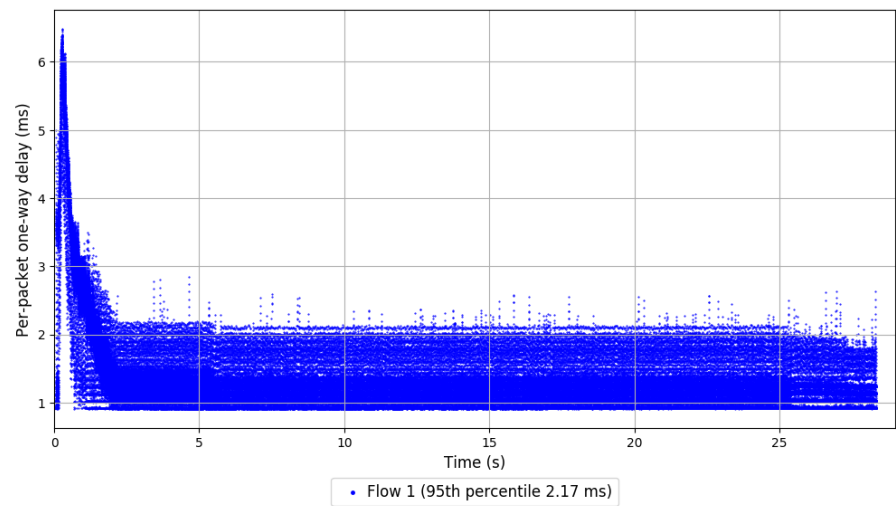
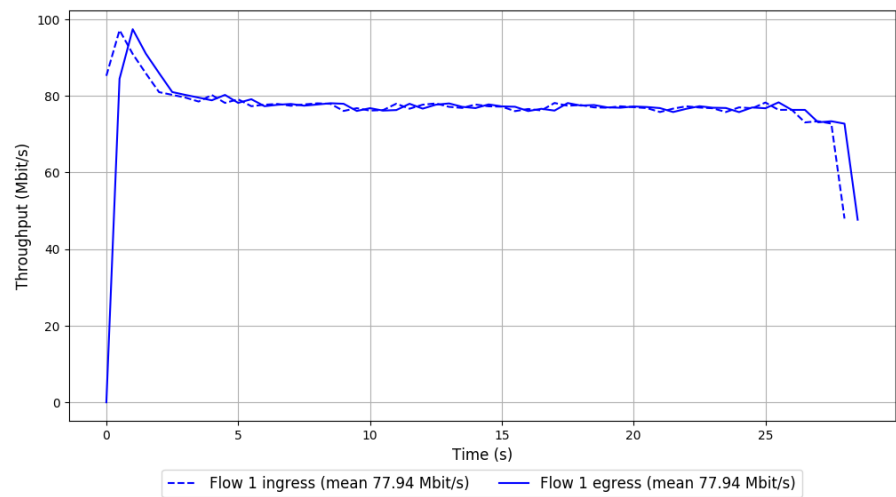
-- Flow 1:

Average throughput: 77.94 Mbit/s

95th percentile per-packet one-way delay: 2.165 ms

Loss rate: 0.01%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-10-03 07:33:06

End at: 2019-10-03 07:33:36

Local clock offset: -6.28 ms

Remote clock offset: 0.547 ms

Below is generated by plot.py at 2019-10-03 09:18:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.58 Mbit/s

95th percentile per-packet one-way delay: 2.300 ms

Loss rate: 0.01%

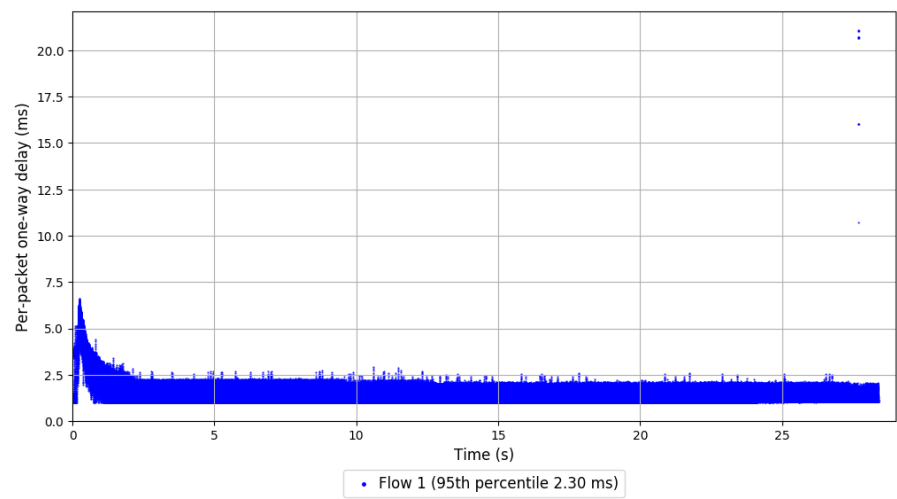
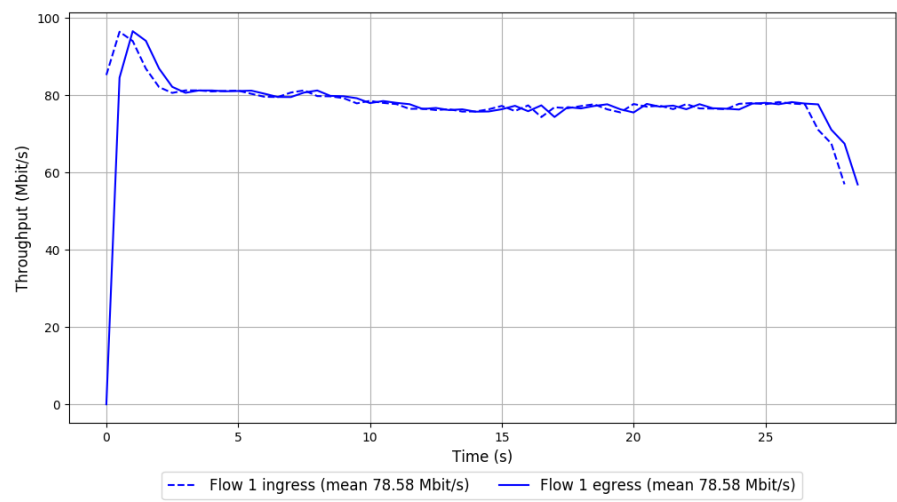
-- Flow 1:

Average throughput: 78.58 Mbit/s

95th percentile per-packet one-way delay: 2.300 ms

Loss rate: 0.01%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-10-03 07:59:55

End at: 2019-10-03 08:00:25

Local clock offset: -6.675 ms

Remote clock offset: 0.818 ms

Below is generated by plot.py at 2019-10-03 09:18:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.92 Mbit/s

95th percentile per-packet one-way delay: 2.163 ms

Loss rate: 0.01%

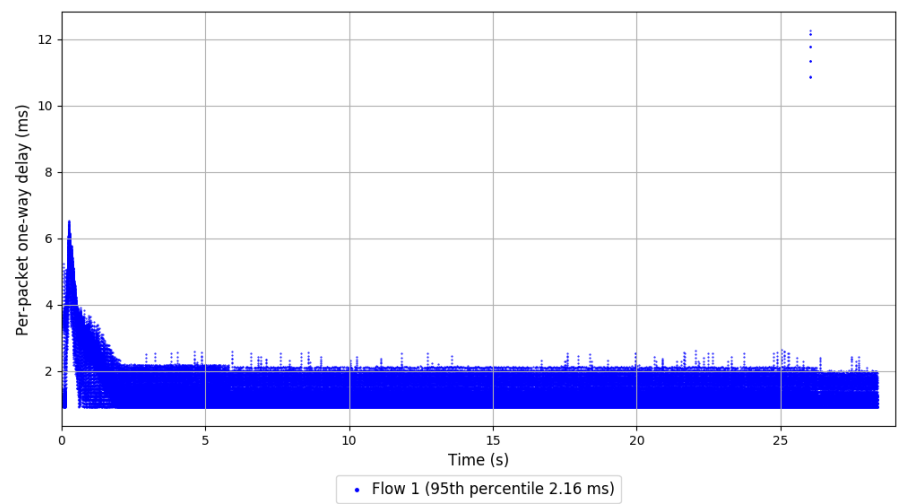
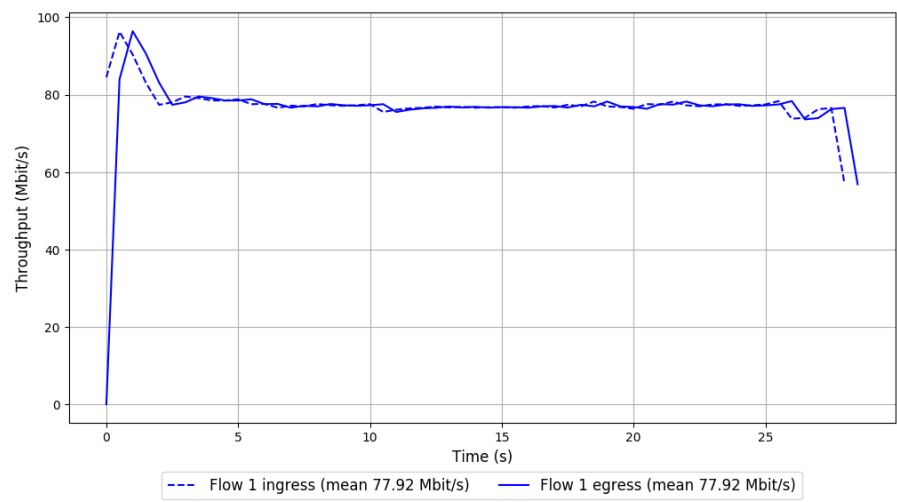
-- Flow 1:

Average throughput: 77.92 Mbit/s

95th percentile per-packet one-way delay: 2.163 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-10-03 08:26:47

End at: 2019-10-03 08:27:17

Local clock offset: -6.335 ms

Remote clock offset: 0.933 ms

Below is generated by plot.py at 2019-10-03 09:19:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.41 Mbit/s

95th percentile per-packet one-way delay: 2.037 ms

Loss rate: 0.01%

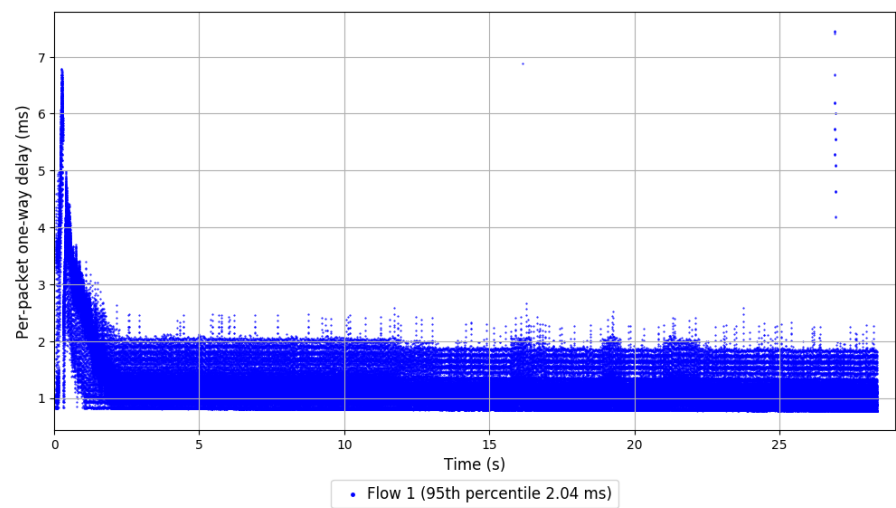
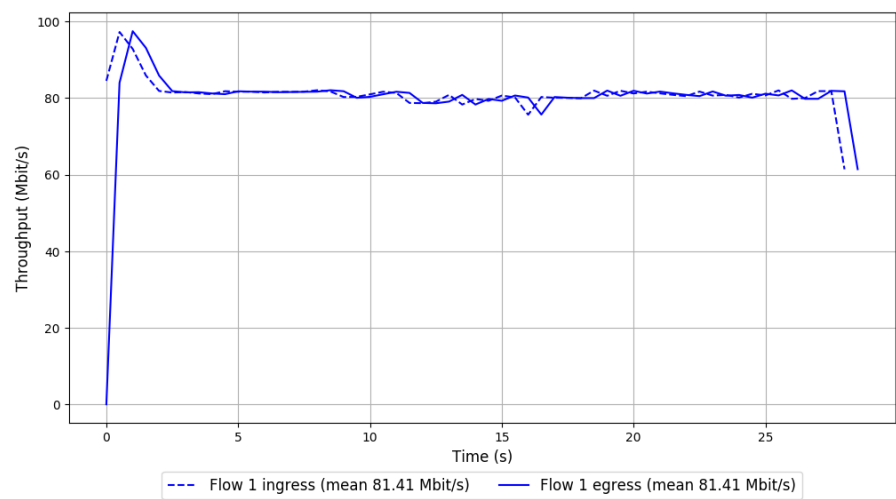
-- Flow 1:

Average throughput: 81.41 Mbit/s

95th percentile per-packet one-way delay: 2.037 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-10-03 08:53:40

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

Local clock offset: -5.268 ms

Remote clock offset: 0.761 ms

Below is generated by plot.py at 2019-10-03 09:19:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.45 Mbit/s

95th percentile per-packet one-way delay: 2.198 ms

Loss rate: 0.01%

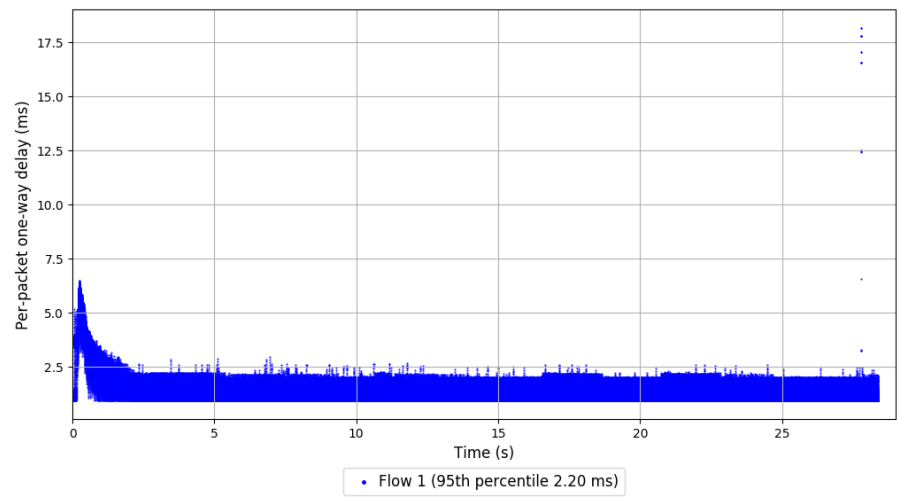
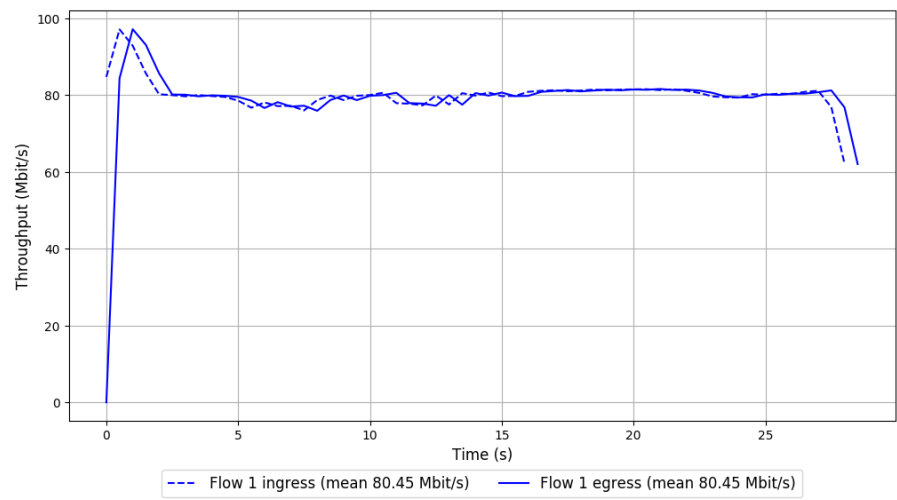
-- Flow 1:

Average throughput: 80.45 Mbit/s

95th percentile per-packet one-way delay: 2.198 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2019-10-03 07:05:09

End at: 2019-10-03 07:05:39

Local clock offset: -5.596 ms

Remote clock offset: 0.246 ms

Below is generated by plot.py at 2019-10-03 09:19:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.43 Mbit/s

95th percentile per-packet one-way delay: 9.730 ms

Loss rate: 0.10%

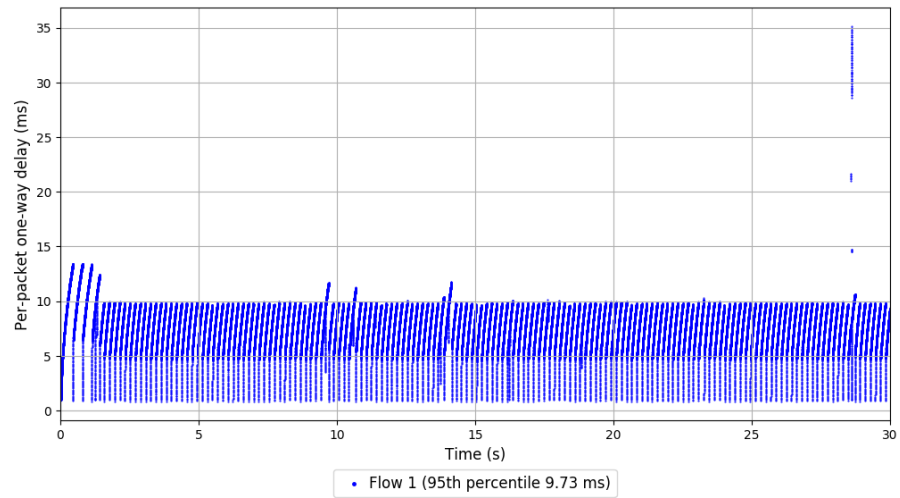
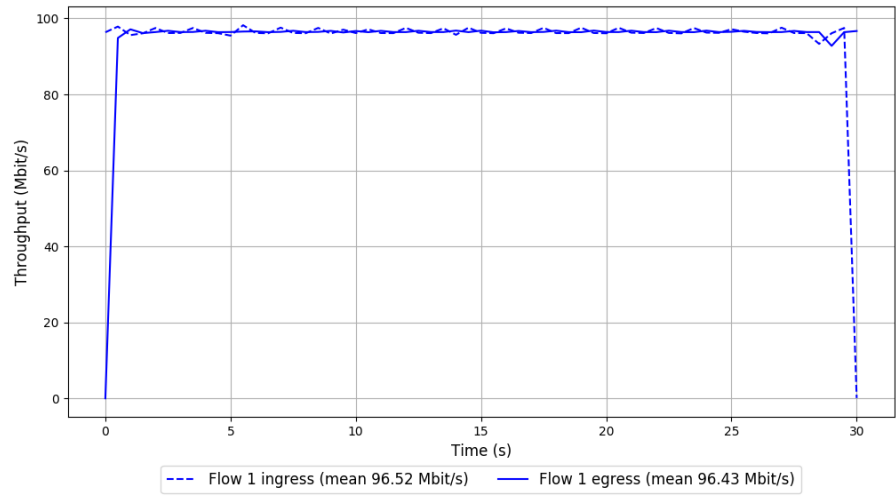
-- Flow 1:

Average throughput: 96.43 Mbit/s

95th percentile per-packet one-way delay: 9.730 ms

Loss rate: 0.10%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-10-03 07:31:56

End at: 2019-10-03 07:32:26

Local clock offset: -6.246 ms

Remote clock offset: 0.51 ms

Below is generated by plot.py at 2019-10-03 09:19:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.44 Mbit/s

95th percentile per-packet one-way delay: 9.750 ms

Loss rate: 0.10%

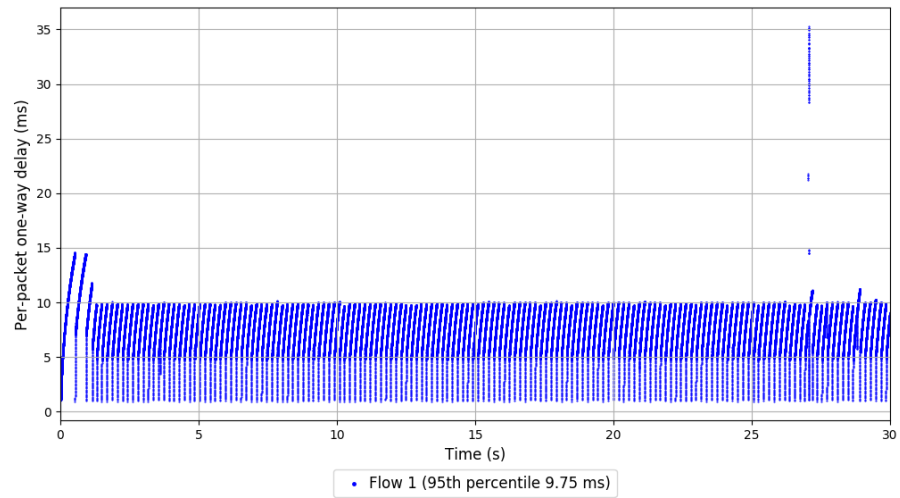
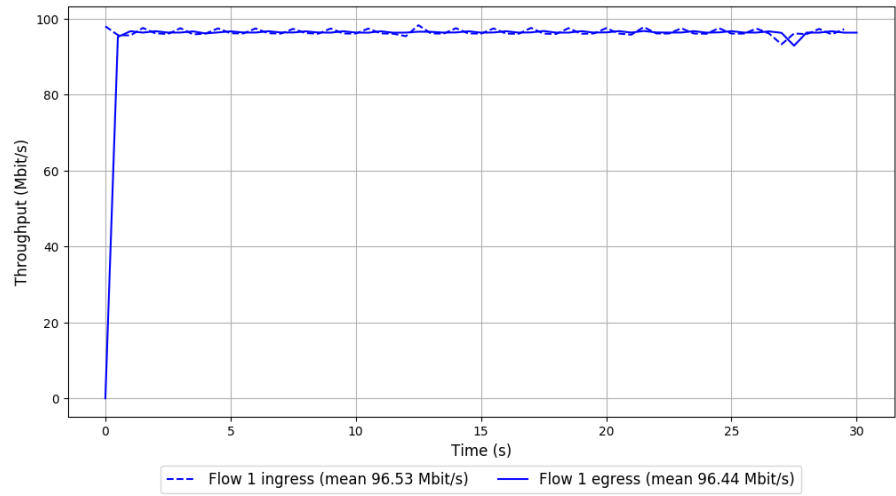
-- Flow 1:

Average throughput: 96.44 Mbit/s

95th percentile per-packet one-way delay: 9.750 ms

Loss rate: 0.10%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-10-03 07:58:45

End at: 2019-10-03 07:59:15

Local clock offset: -6.684 ms

Remote clock offset: 0.747 ms

Below is generated by plot.py at 2019-10-03 09:20:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.50 Mbit/s

95th percentile per-packet one-way delay: 9.700 ms

Loss rate: 0.09%

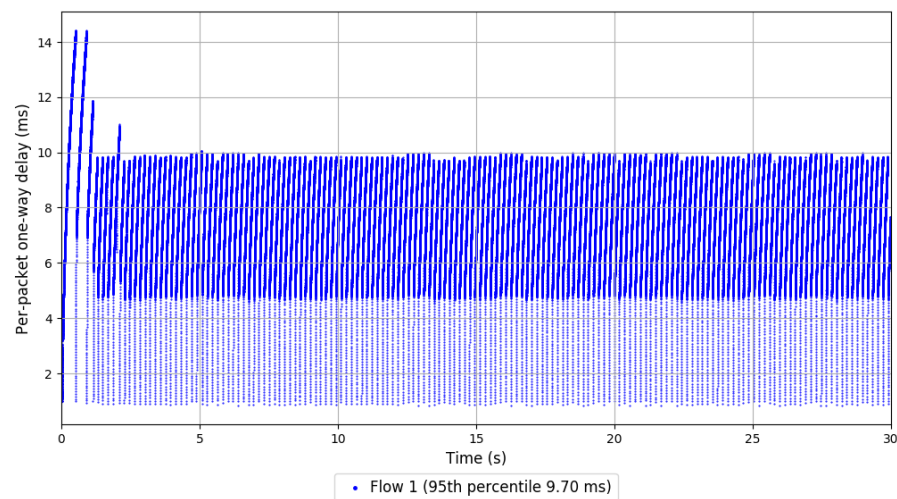
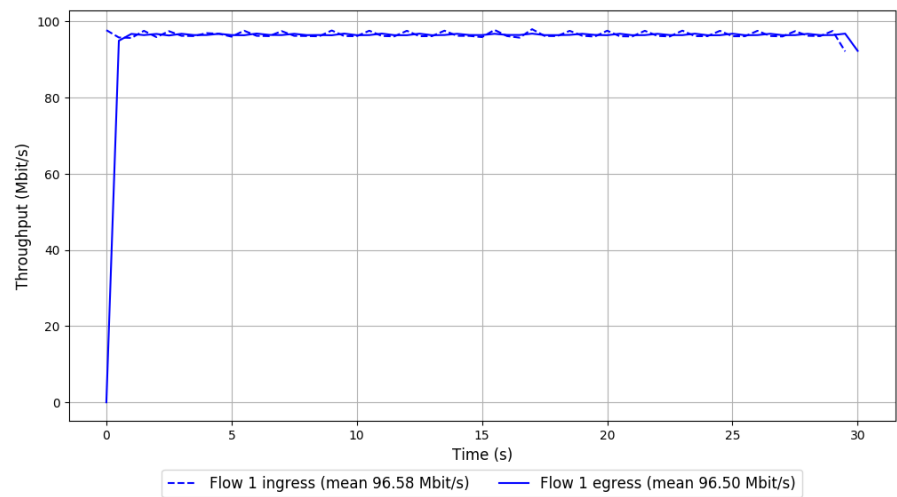
-- Flow 1:

Average throughput: 96.50 Mbit/s

95th percentile per-packet one-way delay: 9.700 ms

Loss rate: 0.09%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-10-03 08:25:38

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

Local clock offset: -6.494 ms

Remote clock offset: 0.83 ms

Below is generated by plot.py at 2019-10-03 09:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.52 Mbit/s

95th percentile per-packet one-way delay: 9.610 ms

Loss rate: 0.09%

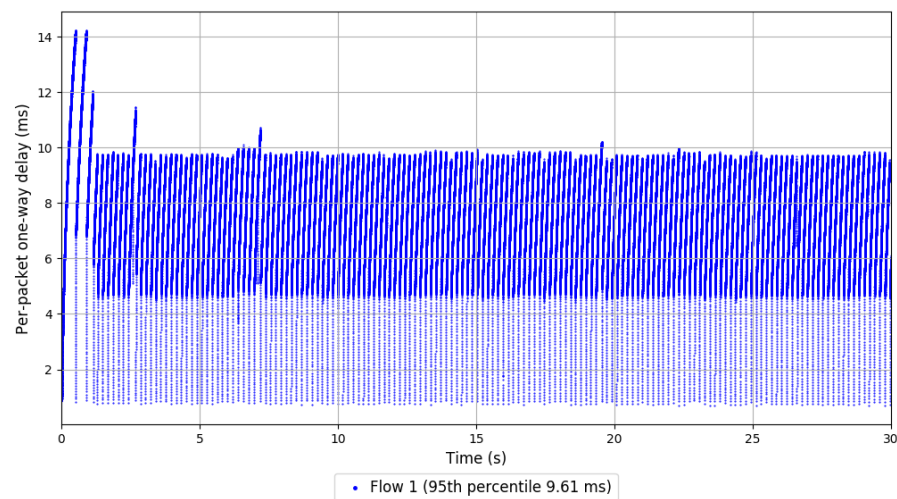
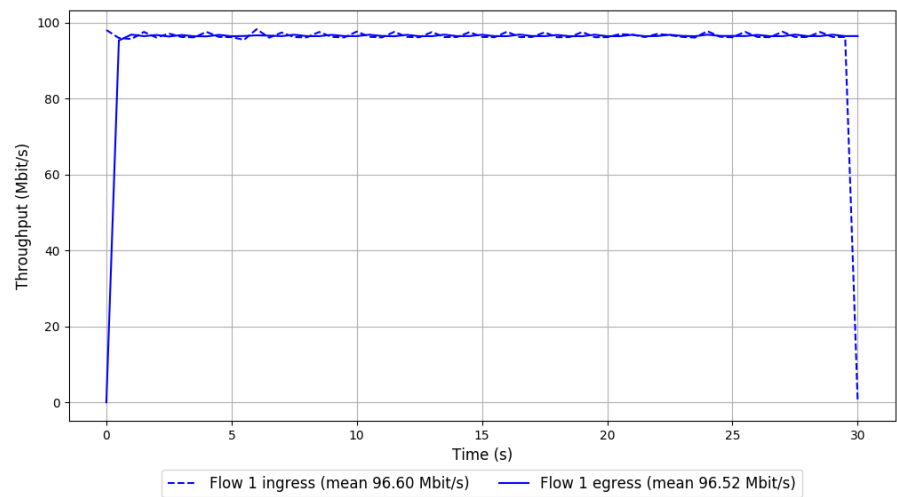
-- Flow 1:

Average throughput: 96.52 Mbit/s

95th percentile per-packet one-way delay: 9.610 ms

Loss rate: 0.09%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-10-03 08:52:31

End at: 2019-10-03 08:53:01

Local clock offset: -5.27 ms

Remote clock offset: 0.715 ms

Below is generated by plot.py at 2019-10-03 09:20:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.36 Mbit/s

95th percentile per-packet one-way delay: 9.747 ms

Loss rate: 0.10%

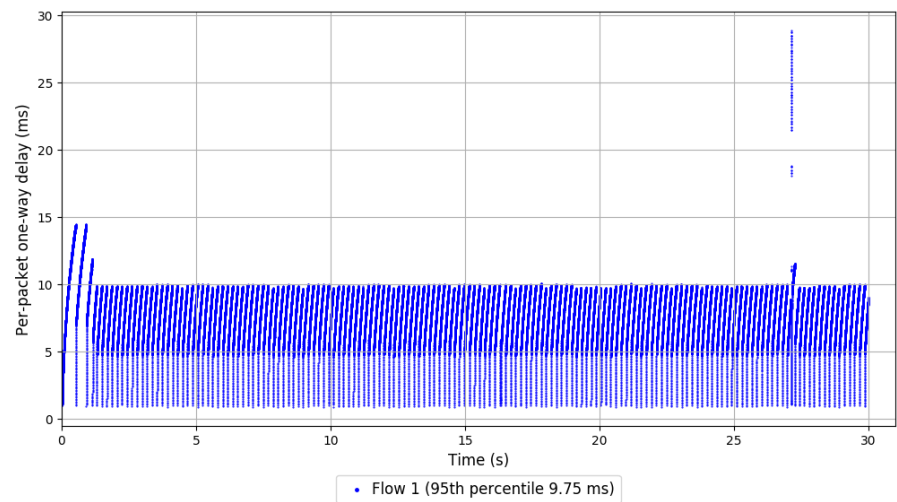
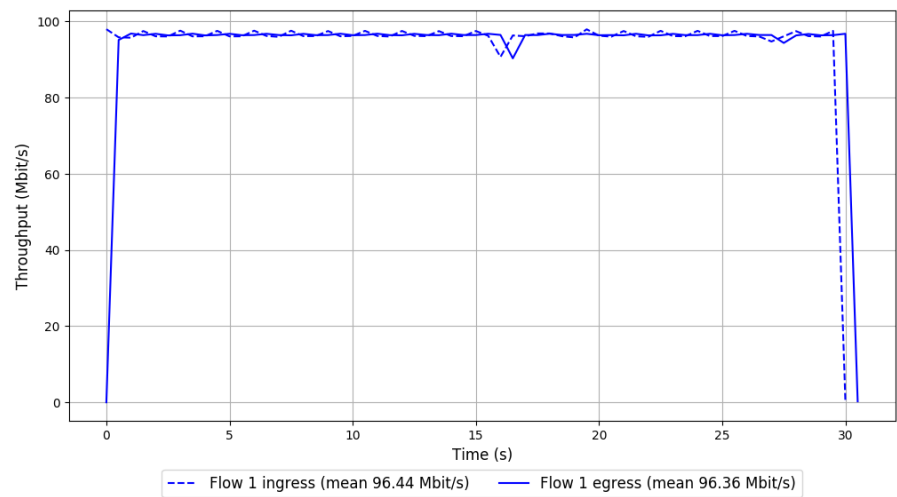
-- Flow 1:

Average throughput: 96.36 Mbit/s

95th percentile per-packet one-way delay: 9.747 ms

Loss rate: 0.10%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses_DecisionTree

Start at: 2019-10-03 07:08:31

End at: 2019-10-03 07:09:01

Local clock offset: -5.634 ms

Remote clock offset: 0.215 ms

Below is generated by plot.py at 2019-10-03 09:20:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.86 Mbit/s

95th percentile per-packet one-way delay: 1.117 ms

Loss rate: 0.00%

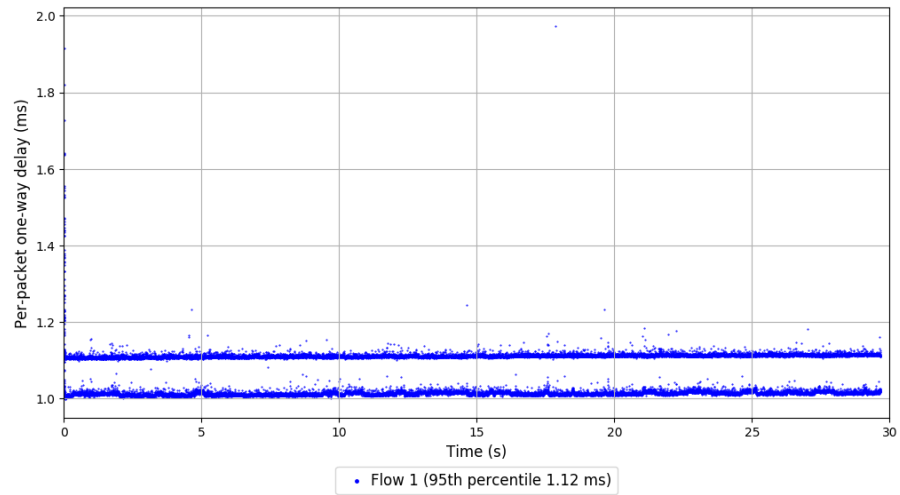
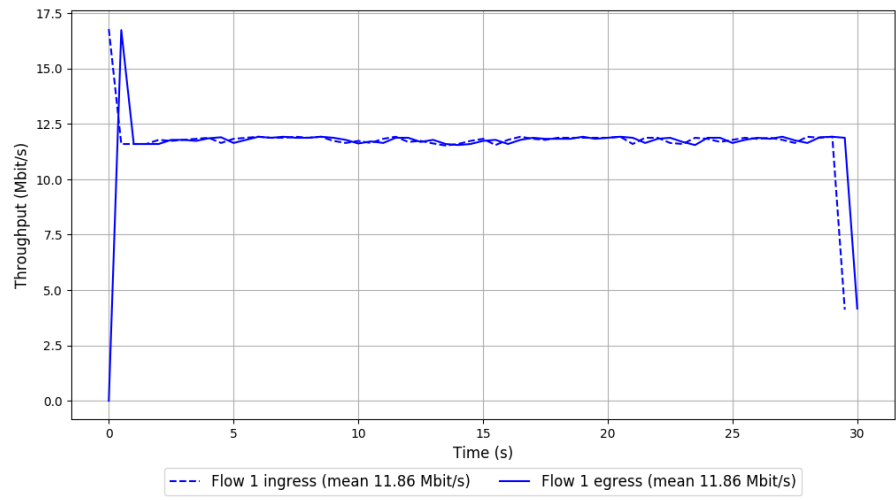
-- Flow 1:

Average throughput: 11.86 Mbit/s

95th percentile per-packet one-way delay: 1.117 ms

Loss rate: 0.00%

Run 1: Report of Muses_DecisionTree — Data Link



Run 2: Statistics of Muses_DecisionTree

Start at: 2019-10-03 07:35:19

End at: 2019-10-03 07:35:49

Local clock offset: -6.385 ms

Remote clock offset: 0.61 ms

Below is generated by plot.py at 2019-10-03 09:20:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.48 Mbit/s

95th percentile per-packet one-way delay: 1.073 ms

Loss rate: 0.01%

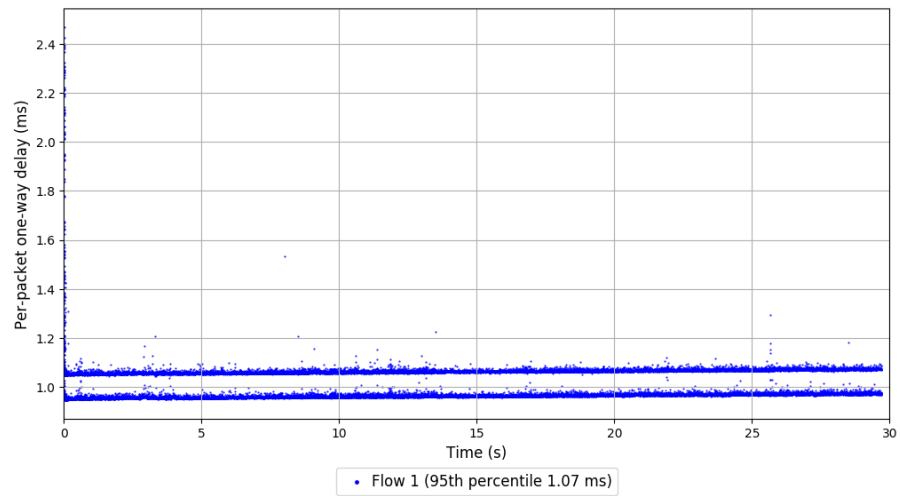
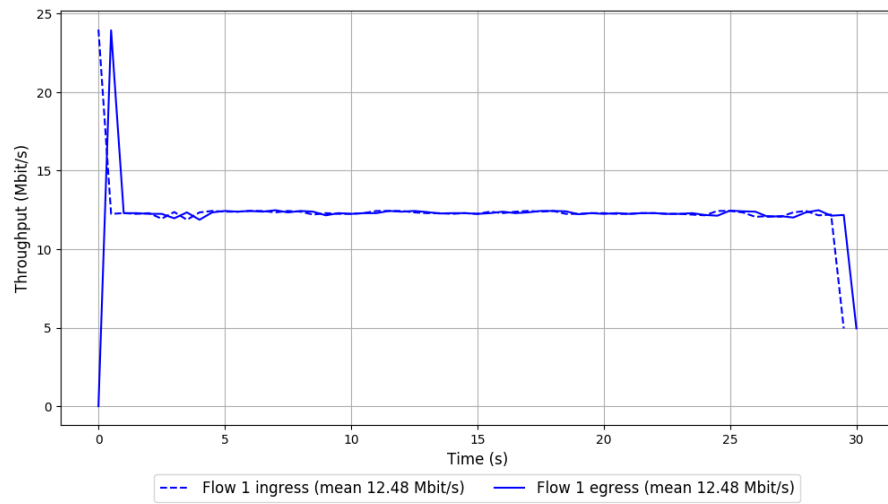
-- Flow 1:

Average throughput: 12.48 Mbit/s

95th percentile per-packet one-way delay: 1.073 ms

Loss rate: 0.01%

Run 2: Report of Muses_DecisionTree — Data Link



Run 3: Statistics of Muses_DecisionTree

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

End at: 2019-10-03 08:02:38

Local clock offset: -6.691 ms

Remote clock offset: 0.727 ms

Below is generated by plot.py at 2019-10-03 09:20:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.14 Mbit/s

95th percentile per-packet one-way delay: 1.078 ms

Loss rate: 0.00%

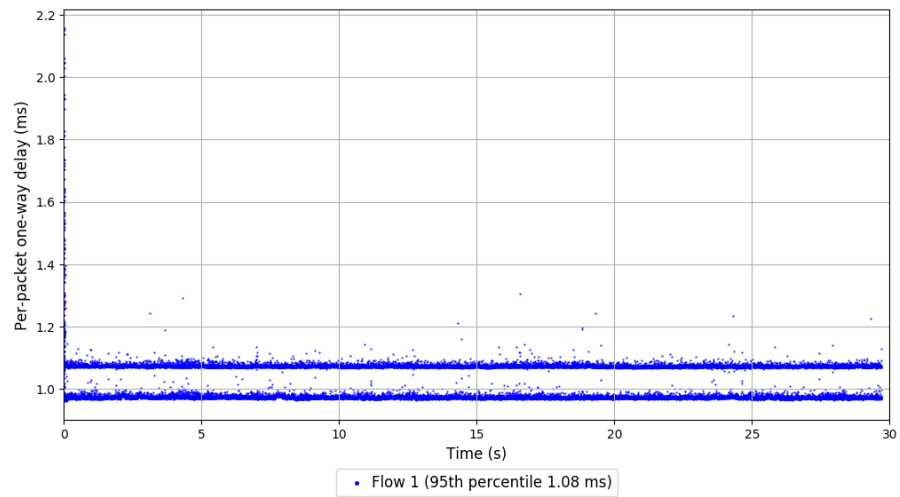
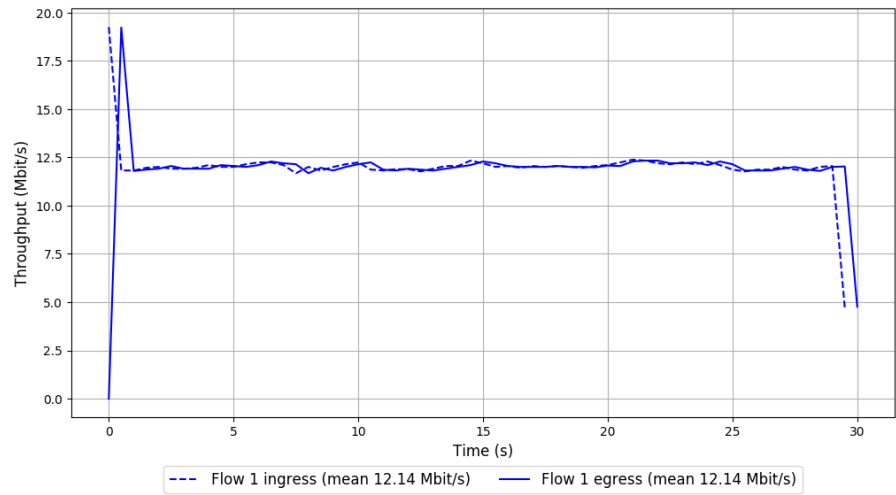
-- Flow 1:

Average throughput: 12.14 Mbit/s

95th percentile per-packet one-way delay: 1.078 ms

Loss rate: 0.00%

Run 3: Report of Muses_DecisionTree — Data Link



Run 4: Statistics of Muses_DecisionTree

Start at: 2019-10-03 08:29:00

End at: 2019-10-03 08:29:30

Local clock offset: -6.118 ms

Remote clock offset: 0.905 ms

Below is generated by plot.py at 2019-10-03 09:20:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.18 Mbit/s

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

Loss rate: 0.01%

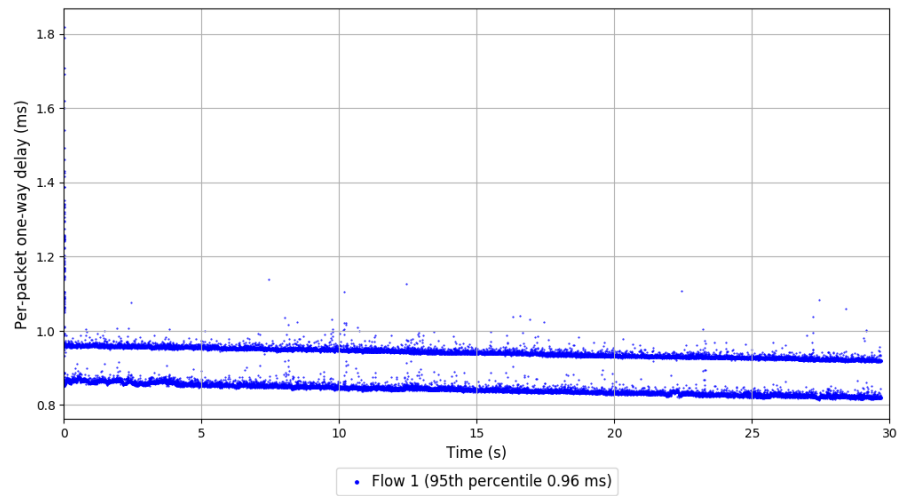
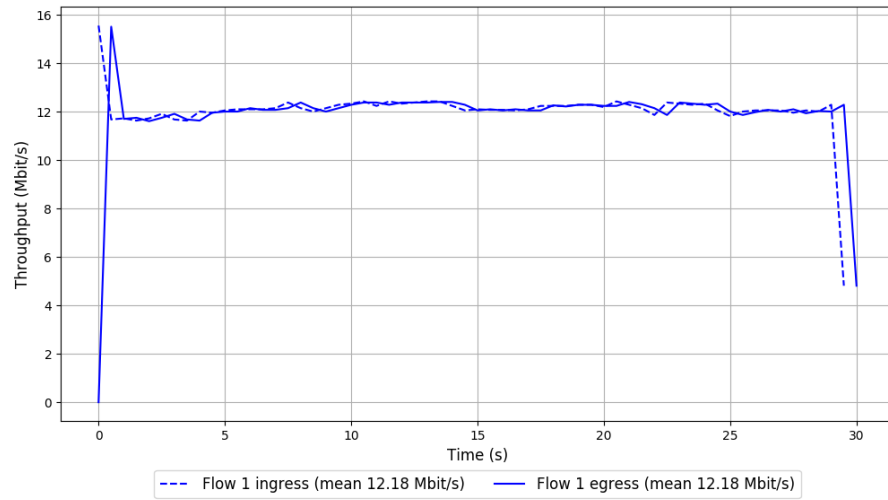
-- Flow 1:

Average throughput: 12.18 Mbit/s

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

Loss rate: 0.01%

Run 4: Report of Muses_DecisionTree — Data Link



Run 5: Statistics of Muses_DecisionTree

Start at: 2019-10-03 08:55:53

End at: 2019-10-03 08:56:23

Local clock offset: -5.474 ms

Remote clock offset: 0.826 ms

Below is generated by plot.py at 2019-10-03 09:20:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.91 Mbit/s

95th percentile per-packet one-way delay: 1.035 ms

Loss rate: 0.01%

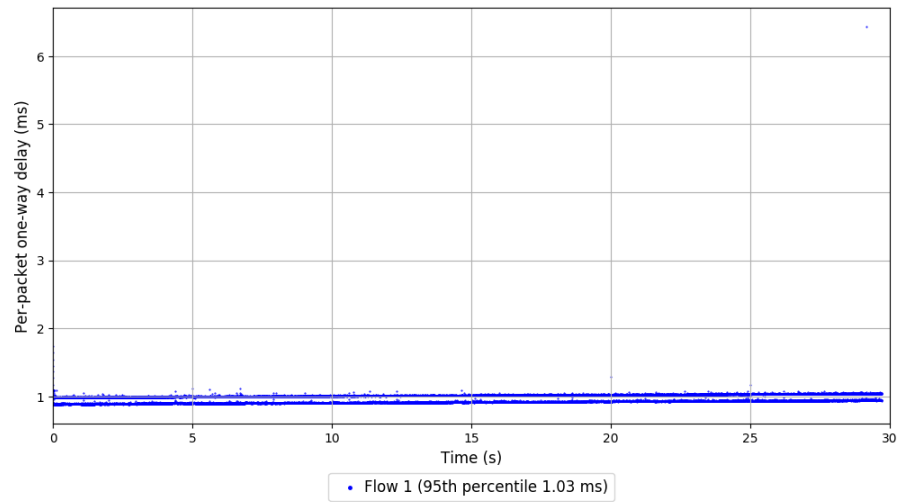
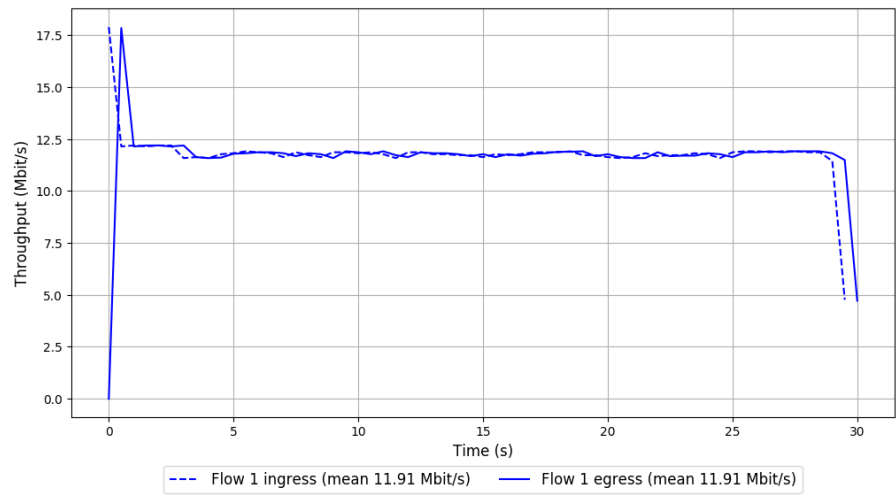
-- Flow 1:

Average throughput: 11.91 Mbit/s

95th percentile per-packet one-way delay: 1.035 ms

Loss rate: 0.01%

Run 5: Report of Muses_DecisionTree — Data Link

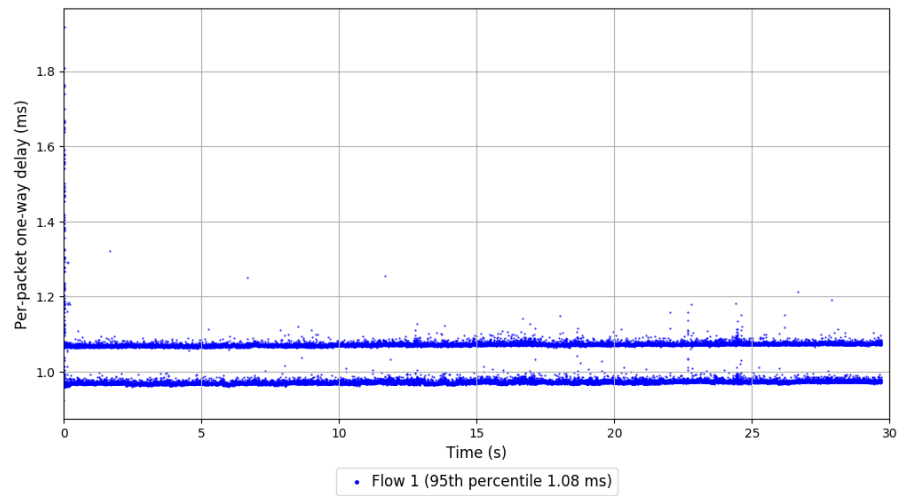
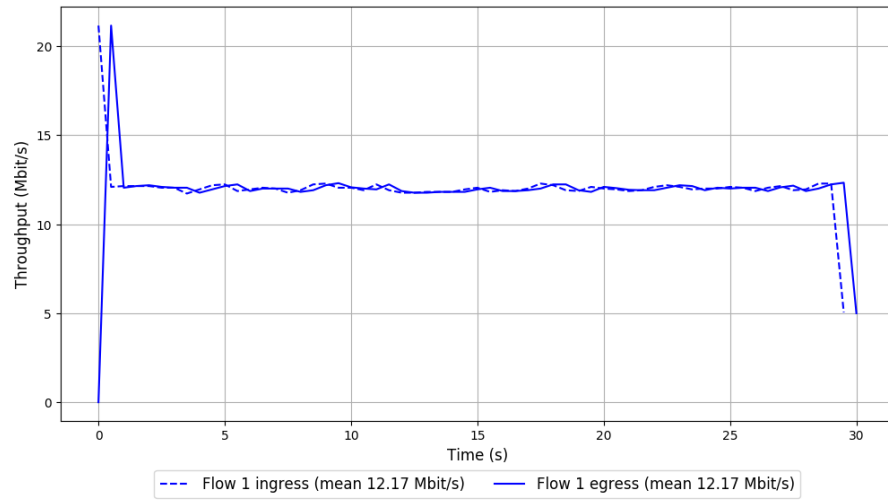



```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-10-03 07:20:42
End at: 2019-10-03 07:21:12
Local clock offset: -5.672 ms
Remote clock offset: 0.381 ms

# Below is generated by plot.py at 2019-10-03 09:20:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.17 Mbit/s
95th percentile per-packet one-way delay: 1.078 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 12.17 Mbit/s
95th percentile per-packet one-way delay: 1.078 ms
Loss rate: 0.01%
```

Run 1: Report of Muses_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2019-10-03 07:47:29

End at: 2019-10-03 07:47:59

Local clock offset: -6.711 ms

Remote clock offset: 0.659 ms

Below is generated by plot.py at 2019-10-03 09:20:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.13 Mbit/s

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

Loss rate: 0.01%

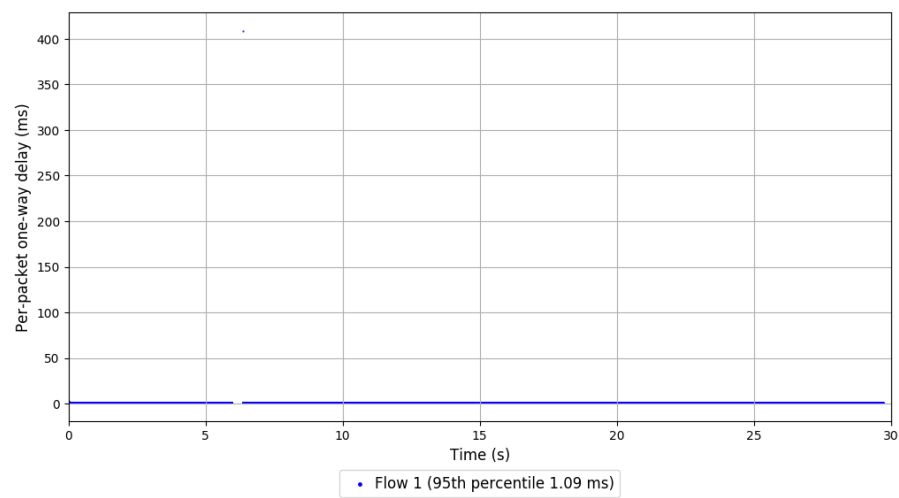
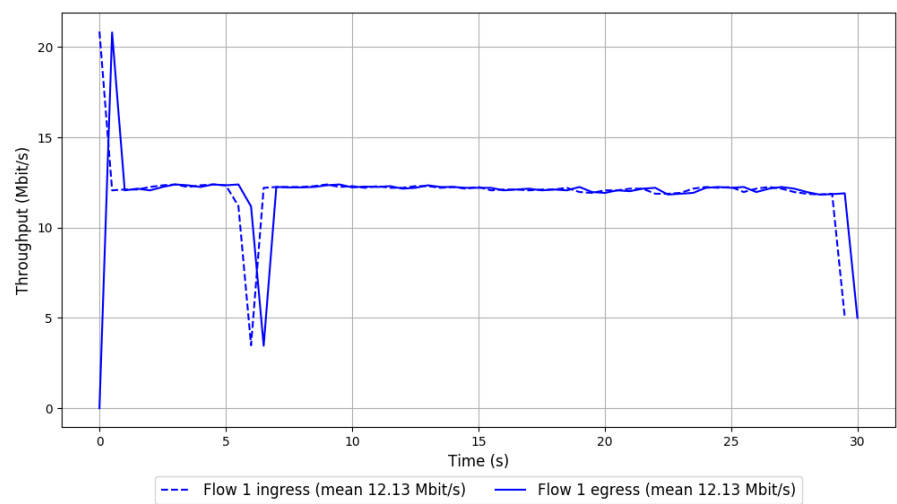
-- Flow 1:

Average throughput: 12.13 Mbit/s

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

Loss rate: 0.01%

Run 2: Report of Muses_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2019-10-03 08:14:18

End at: 2019-10-03 08:14:48

Local clock offset: -6.558 ms

Remote clock offset: 0.927 ms

Below is generated by plot.py at 2019-10-03 09:20:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.03 Mbit/s

95th percentile per-packet one-way delay: 0.998 ms

Loss rate: 0.01%

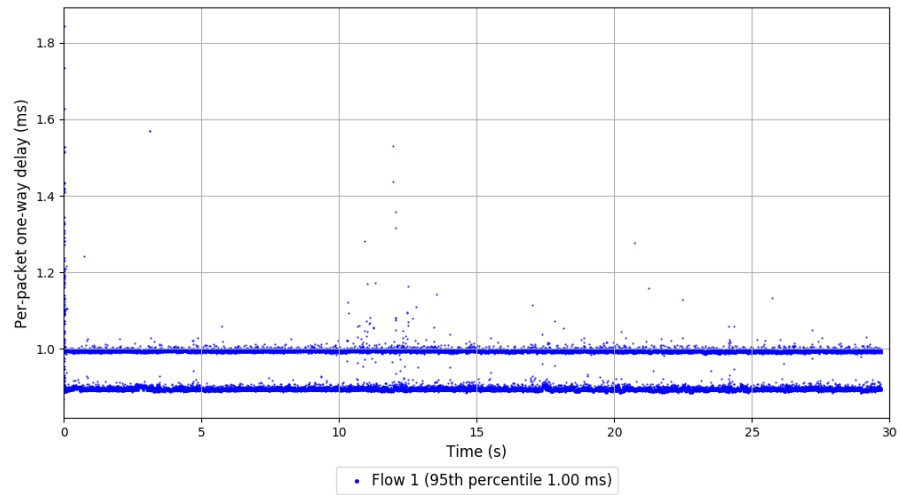
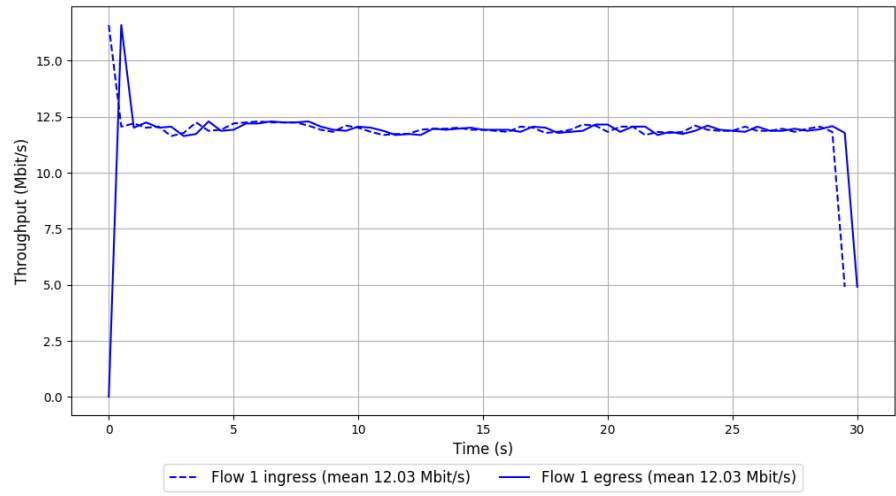
-- Flow 1:

Average throughput: 12.03 Mbit/s

95th percentile per-packet one-way delay: 0.998 ms

Loss rate: 0.01%

Run 3: Report of Muses_DecisionTreeH0 — Data Link



Run 4: Statistics of Muses_DecisionTreeH0

Start at: 2019-10-03 08:41:11

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

Local clock offset: -5.502 ms

Remote clock offset: 0.725 ms

Below is generated by plot.py at 2019-10-03 09:20:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.91 Mbit/s

95th percentile per-packet one-way delay: 1.126 ms

Loss rate: 0.00%

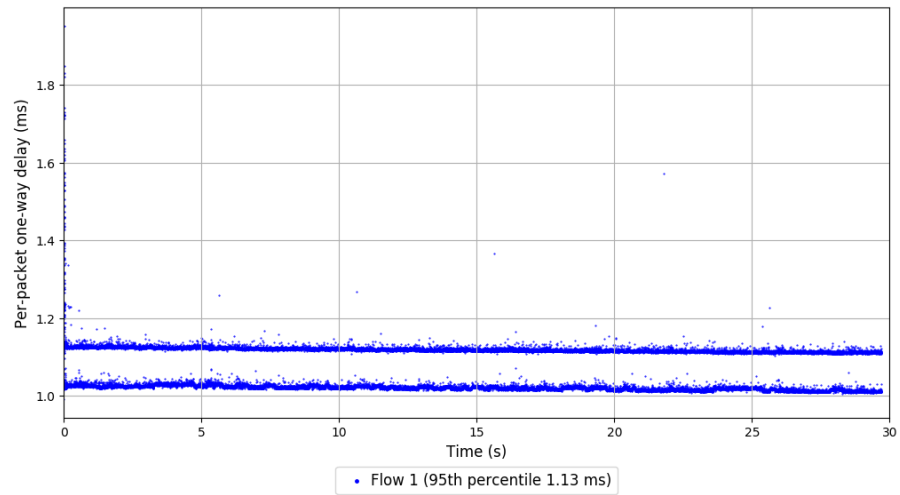
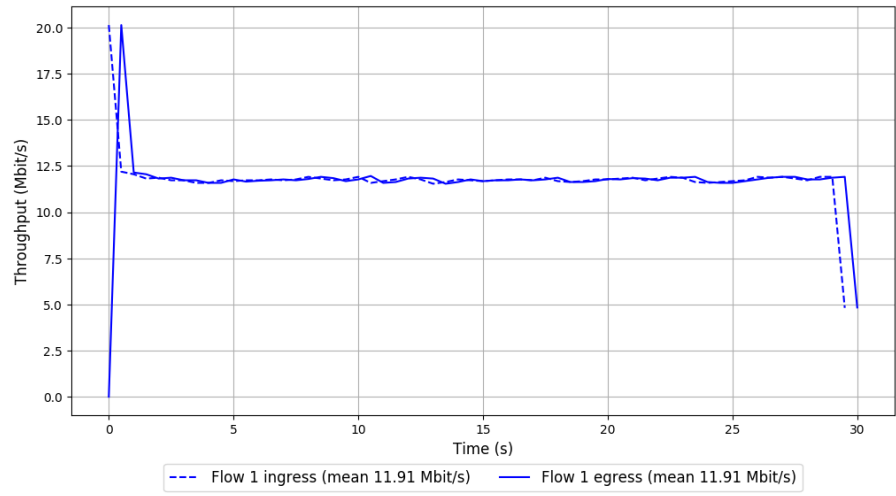
-- Flow 1:

Average throughput: 11.91 Mbit/s

95th percentile per-packet one-way delay: 1.126 ms

Loss rate: 0.00%

Run 4: Report of Muses_DecisionTreeH0 — Data Link



Run 5: Statistics of Muses_DecisionTreeH0

Start at: 2019-10-03 09:08:04

End at: 2019-10-03 09:08:34

Local clock offset: -6.272 ms

Remote clock offset: 0.688 ms

Below is generated by plot.py at 2019-10-03 09:20:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.36 Mbit/s

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

Loss rate: 0.01%

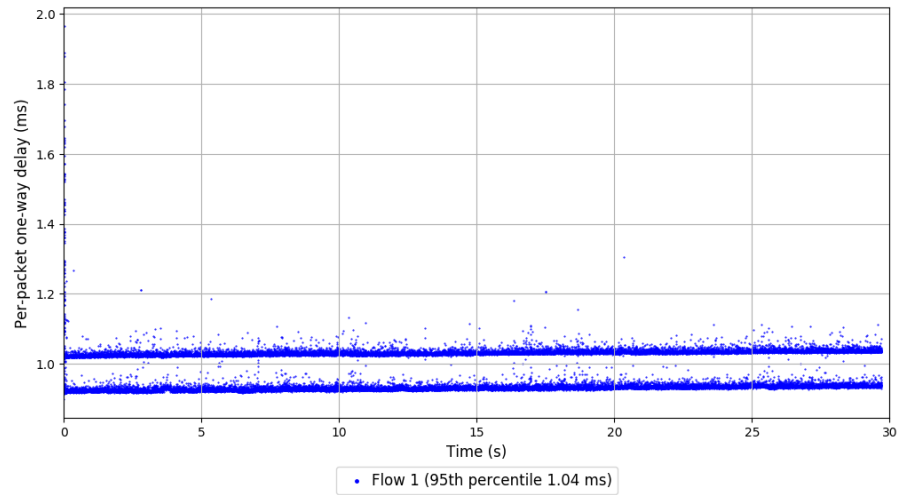
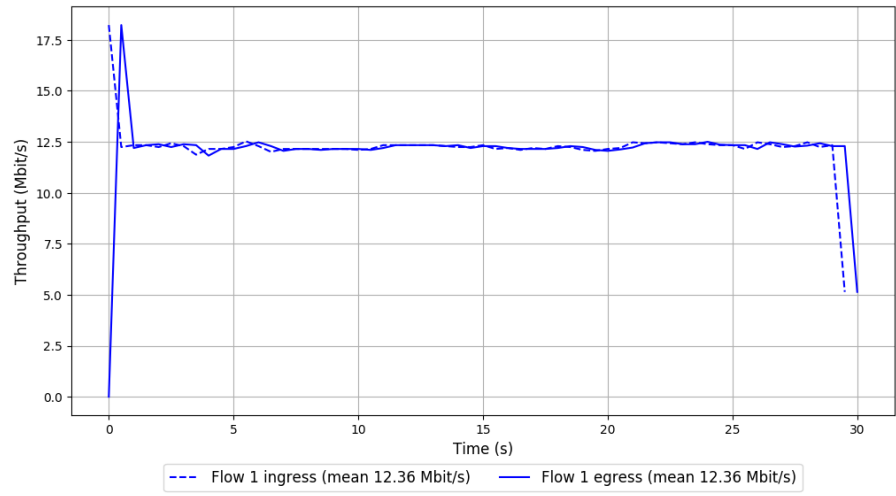
-- Flow 1:

Average throughput: 12.36 Mbit/s

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

Loss rate: 0.01%

Run 5: Report of Muses_DecisionTreeH0 — Data Link

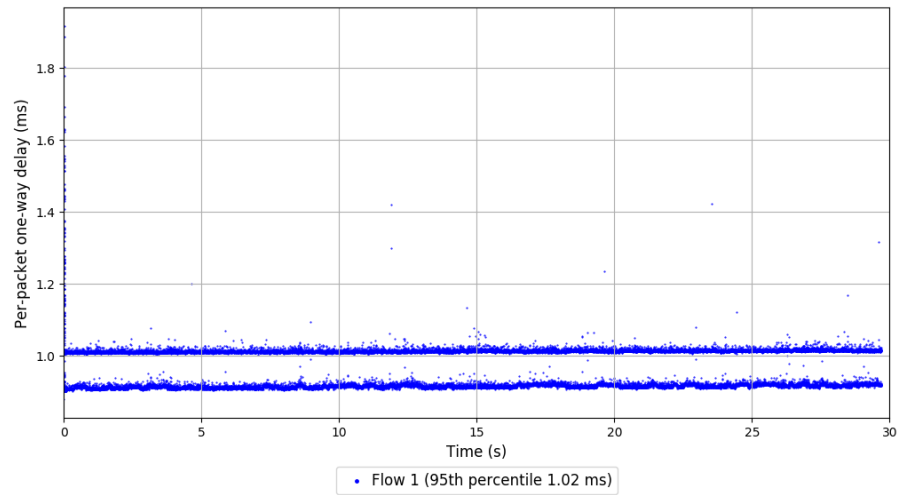
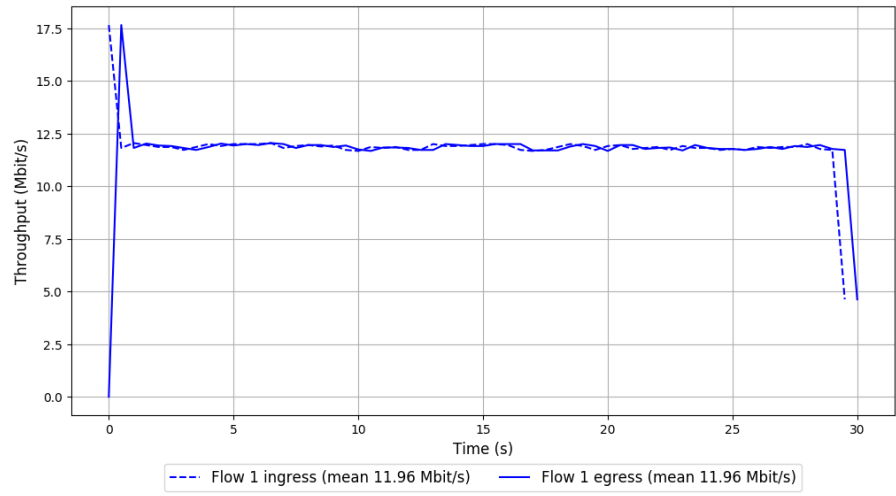


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-10-03 07:15:08
End at: 2019-10-03 07:15:38
Local clock offset: -5.719 ms
Remote clock offset: 0.311 ms

# Below is generated by plot.py at 2019-10-03 09:20:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.96 Mbit/s
95th percentile per-packet one-way delay: 1.018 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 11.96 Mbit/s
95th percentile per-packet one-way delay: 1.018 ms
Loss rate: 0.01%
```

Run 1: Report of Muses_DecisionTreeR0 — Data Link

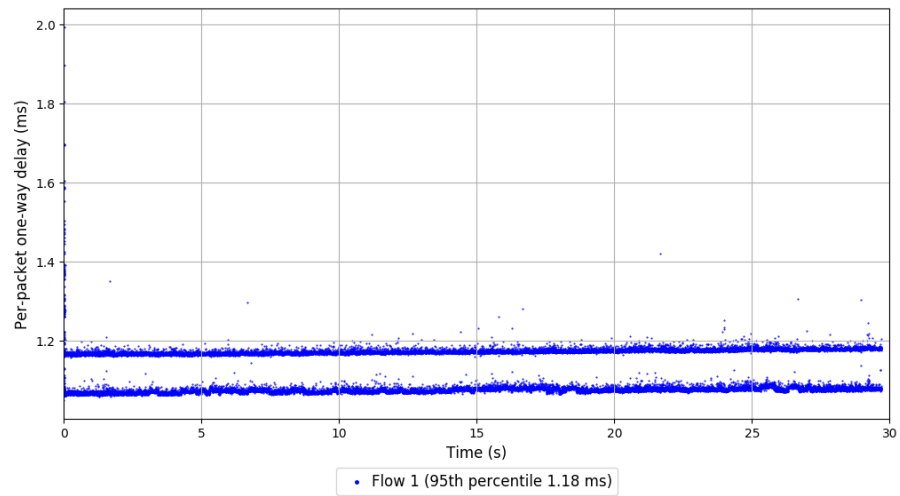
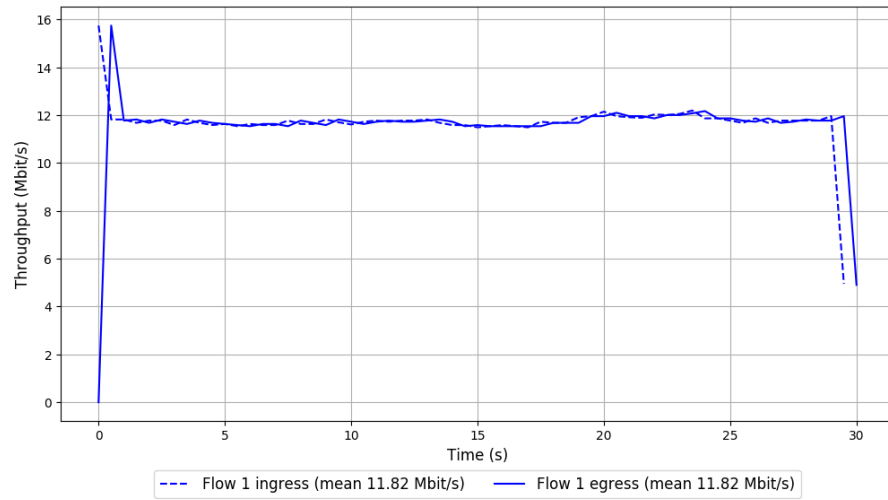


```
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2019-10-03 07:41:56
End at: 2019-10-03 07:42:26
Local clock offset: -6.577 ms
Remote clock offset: 0.552 ms

# Below is generated by plot.py at 2019-10-03 09:20:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.82 Mbit/s
95th percentile per-packet one-way delay: 1.181 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 11.82 Mbit/s
95th percentile per-packet one-way delay: 1.181 ms
Loss rate: 0.01%
```

Run 2: Report of Muses_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses_DecisionTreeR0

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

End at: 2019-10-03 08:09:15

Local clock offset: -6.574 ms

Remote clock offset: 0.958 ms

Below is generated by plot.py at 2019-10-03 09:20:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.87 Mbit/s

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

Loss rate: 0.01%

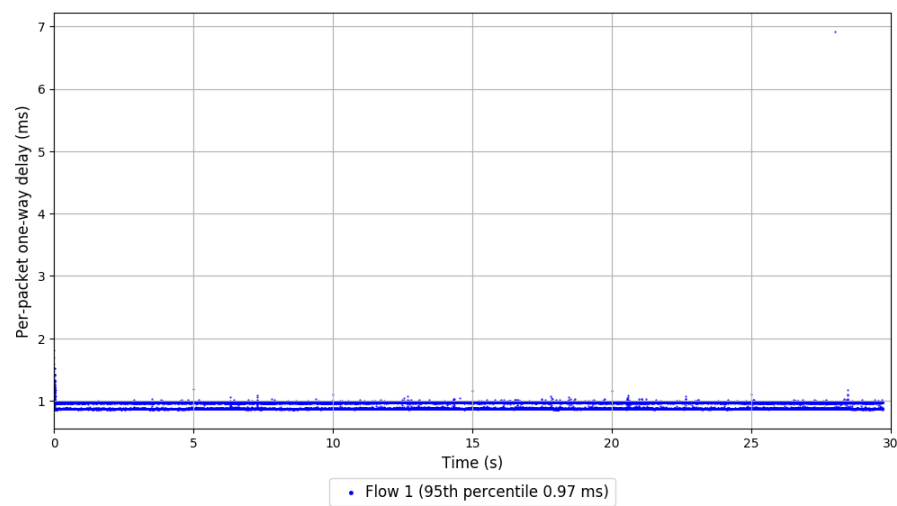
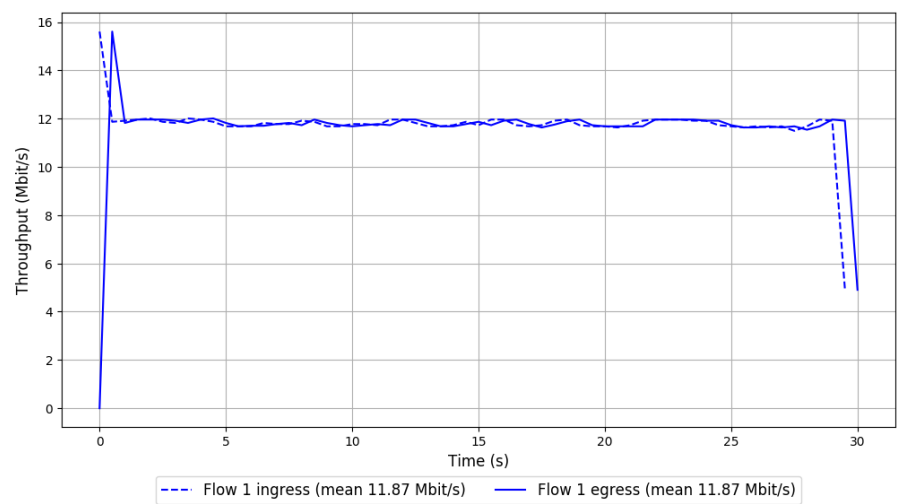
-- Flow 1:

Average throughput: 11.87 Mbit/s

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

Loss rate: 0.01%

Run 3: Report of Muses_DecisionTreeR0 — Data Link



Run 4: Statistics of Muses_DecisionTreeR0

Start at: 2019-10-03 08:35:37

End at: 2019-10-03 08:36:07

Local clock offset: -5.779 ms

Remote clock offset: 0.83 ms

Below is generated by plot.py at 2019-10-03 09:20:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.85 Mbit/s

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

Loss rate: 0.01%

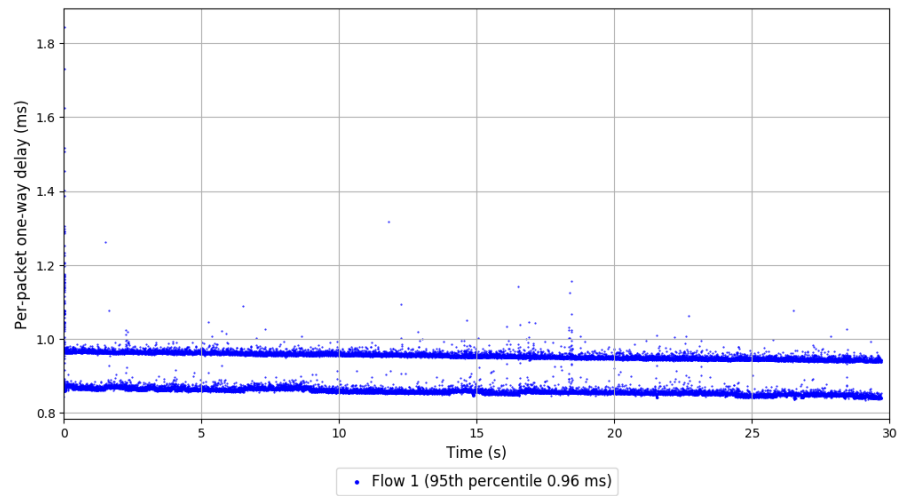
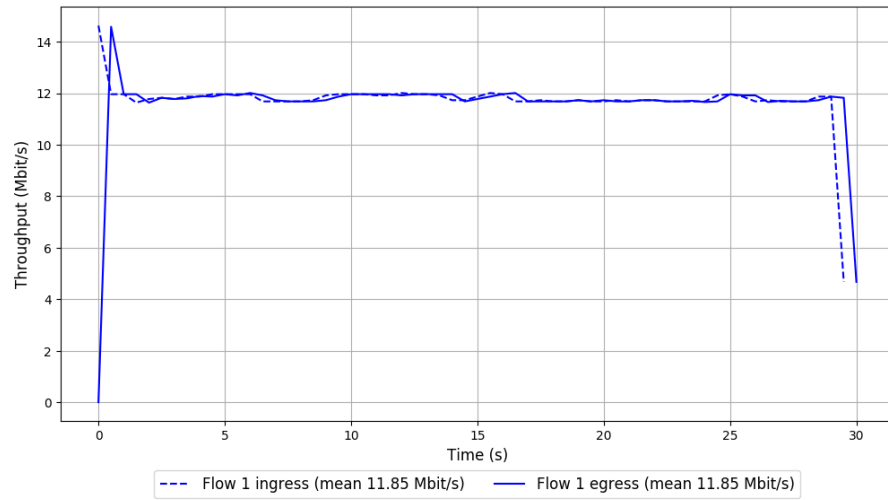
-- Flow 1:

Average throughput: 11.85 Mbit/s

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

Loss rate: 0.01%

Run 4: Report of Muses_DecisionTreeR0 — Data Link



Run 5: Statistics of Muses_DecisionTreeR0

Start at: 2019-10-03 09:02:31

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

Local clock offset: -6.085 ms

Remote clock offset: 0.722 ms

Below is generated by plot.py at 2019-10-03 09:20:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.24 Mbit/s

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

Loss rate: 0.01%

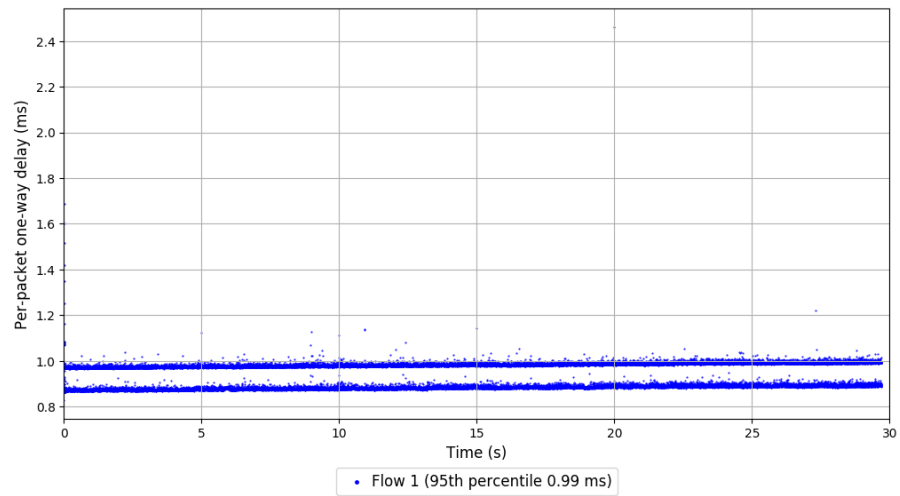
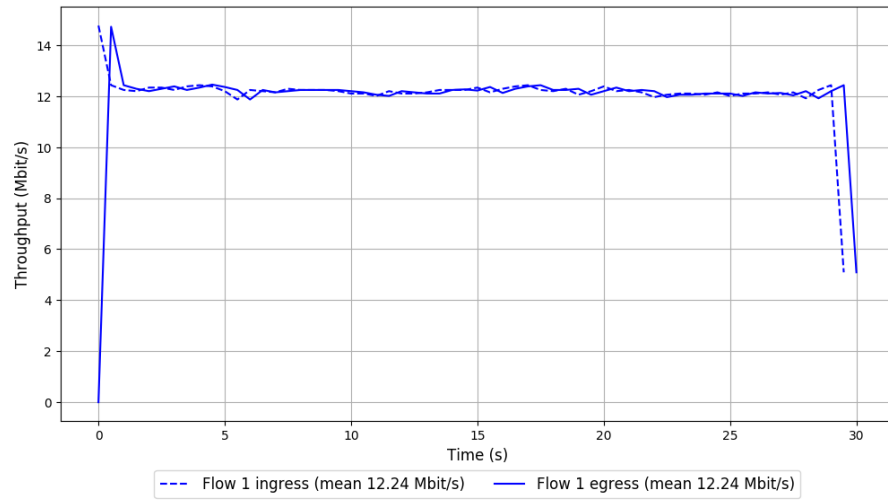
-- Flow 1:

Average throughput: 12.24 Mbit/s

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

Loss rate: 0.01%

Run 5: Report of Muses_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-10-03 06:56:00

End at: 2019-10-03 06:56:30

Local clock offset: -5.506 ms

Remote clock offset: 0.119 ms

Below is generated by plot.py at 2019-10-03 09:21:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.96 Mbit/s

95th percentile per-packet one-way delay: 5.510 ms

Loss rate: 0.01%

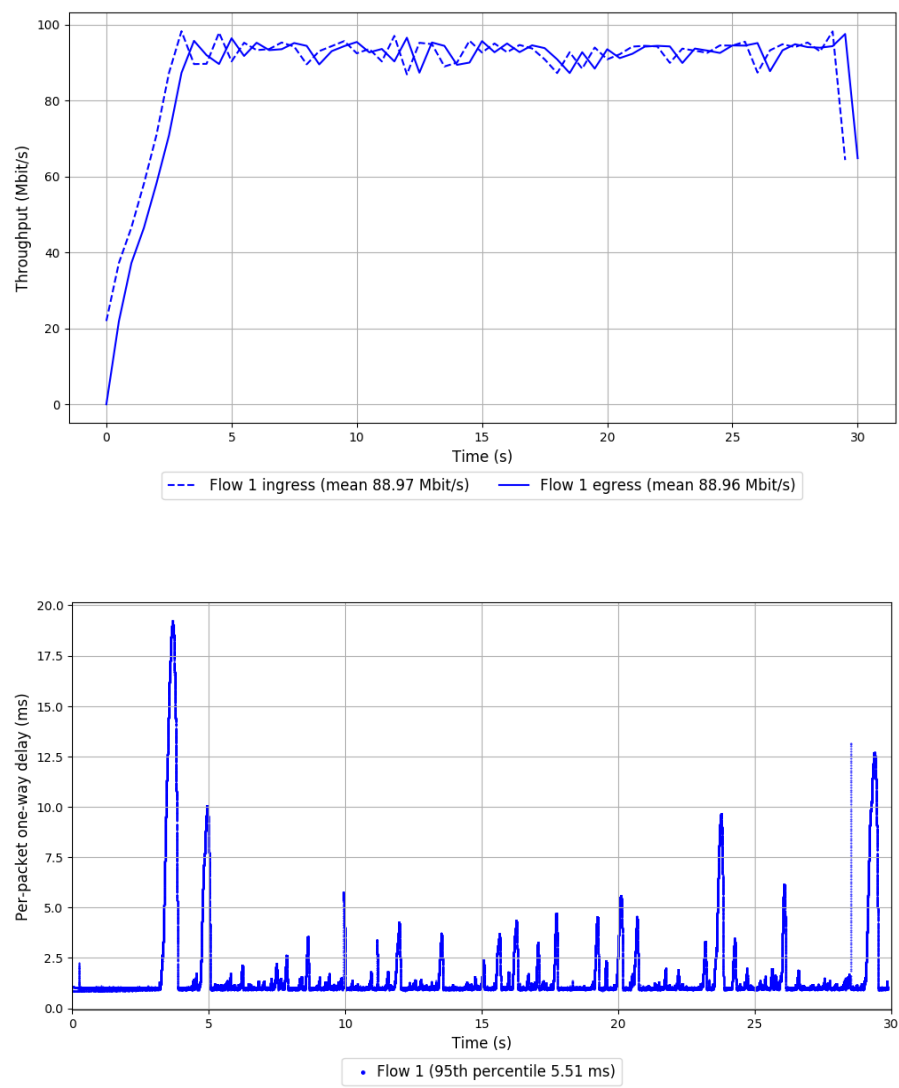
-- Flow 1:

Average throughput: 88.96 Mbit/s

95th percentile per-packet one-way delay: 5.510 ms

Loss rate: 0.01%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-10-03 07:22:54

End at: 2019-10-03 07:23:24

Local clock offset: -5.701 ms

Remote clock offset: 0.442 ms

Below is generated by plot.py at 2019-10-03 09:21:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.66 Mbit/s

95th percentile per-packet one-way delay: 2.443 ms

Loss rate: 0.01%

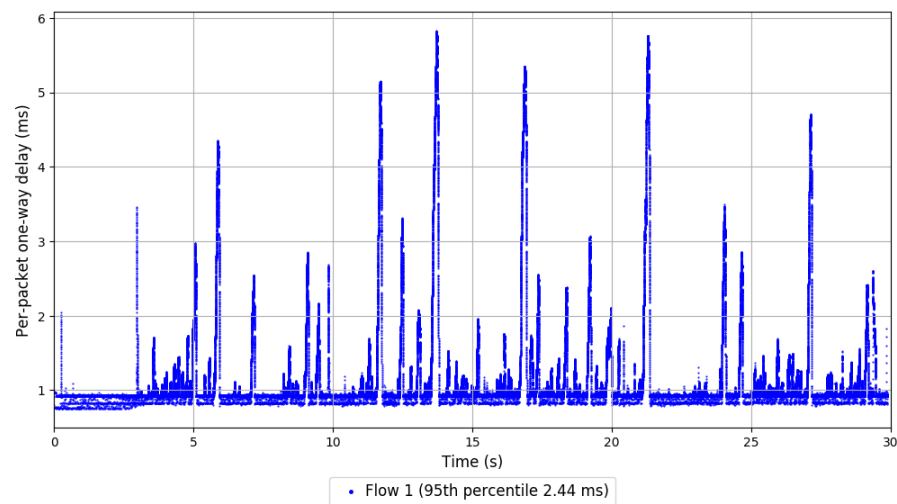
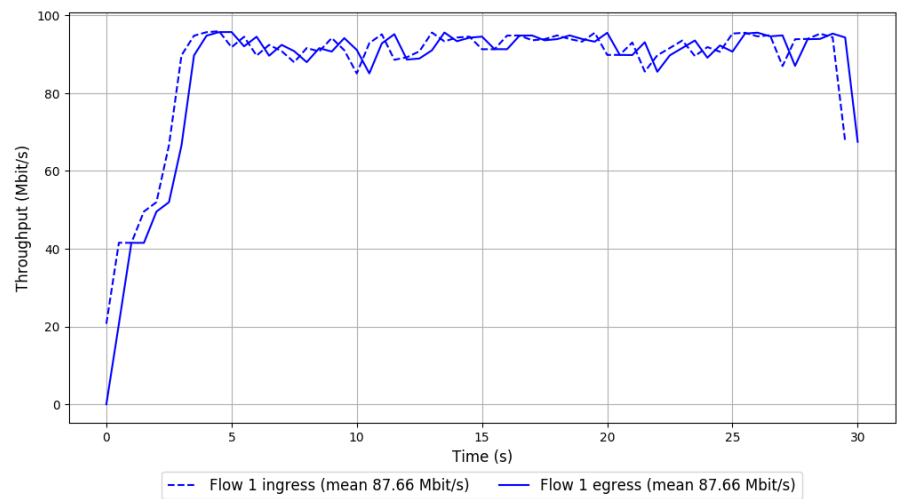
-- Flow 1:

Average throughput: 87.66 Mbit/s

95th percentile per-packet one-way delay: 2.443 ms

Loss rate: 0.01%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-10-03 07:49:41

End at: 2019-10-03 07:50:11

Local clock offset: -6.771 ms

Remote clock offset: 0.662 ms

Below is generated by plot.py at 2019-10-03 09:21:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.06 Mbit/s

95th percentile per-packet one-way delay: 2.249 ms

Loss rate: 0.01%

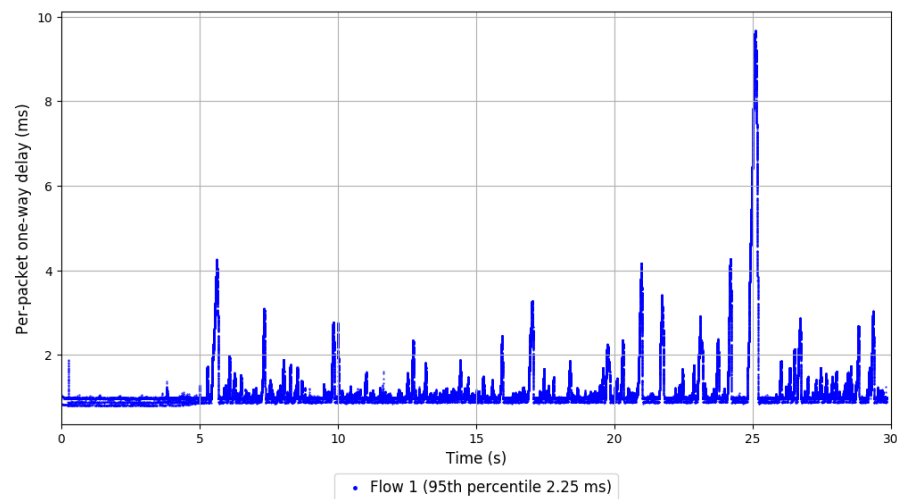
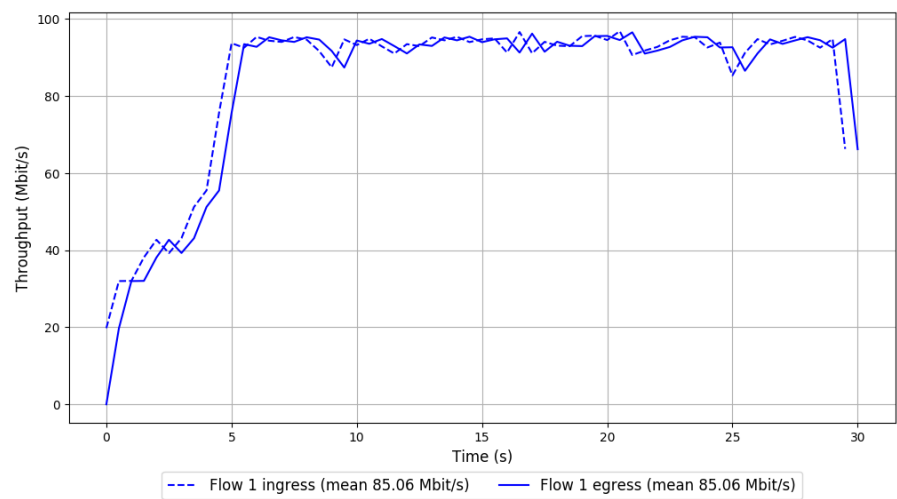
-- Flow 1:

Average throughput: 85.06 Mbit/s

95th percentile per-packet one-way delay: 2.249 ms

Loss rate: 0.01%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-10-03 08:16:30

End at: 2019-10-03 08:17:00

Local clock offset: -6.552 ms

Remote clock offset: 0.868 ms

Below is generated by plot.py at 2019-10-03 09:21:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.65 Mbit/s

95th percentile per-packet one-way delay: 7.308 ms

Loss rate: 0.02%

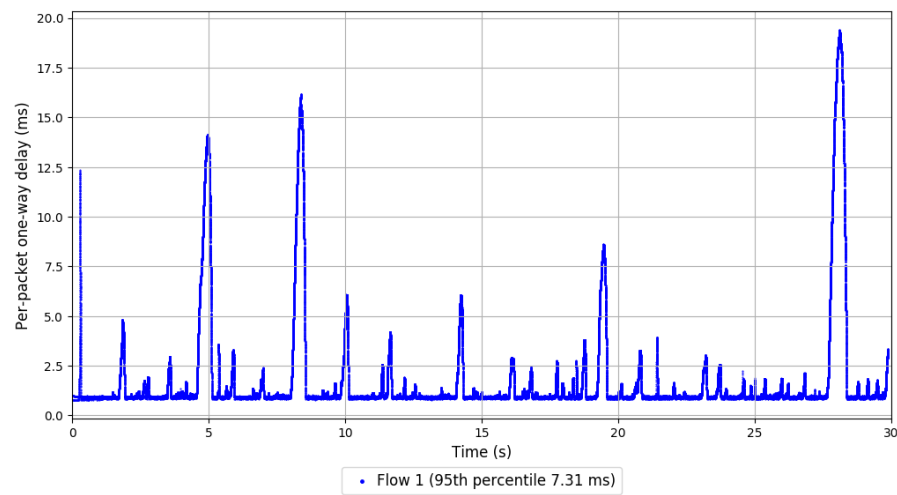
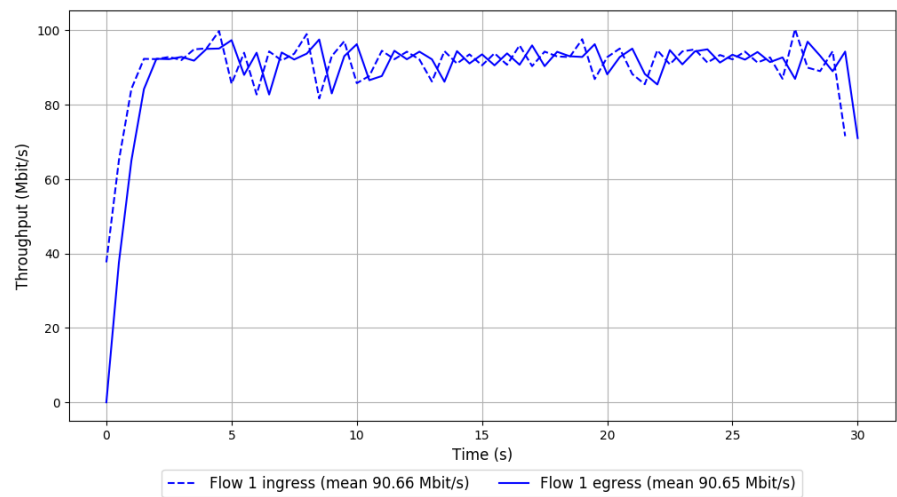
-- Flow 1:

Average throughput: 90.65 Mbit/s

95th percentile per-packet one-way delay: 7.308 ms

Loss rate: 0.02%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-10-03 08:43:23

End at: 2019-10-03 08:43:53

Local clock offset: -5.438 ms

Remote clock offset: 0.822 ms

Below is generated by plot.py at 2019-10-03 09:21:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.13 Mbit/s

95th percentile per-packet one-way delay: 2.096 ms

Loss rate: 0.01%

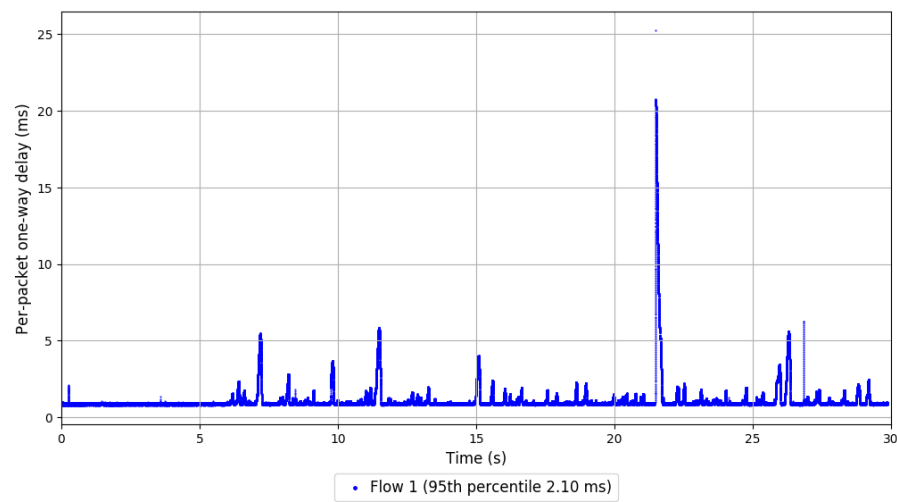
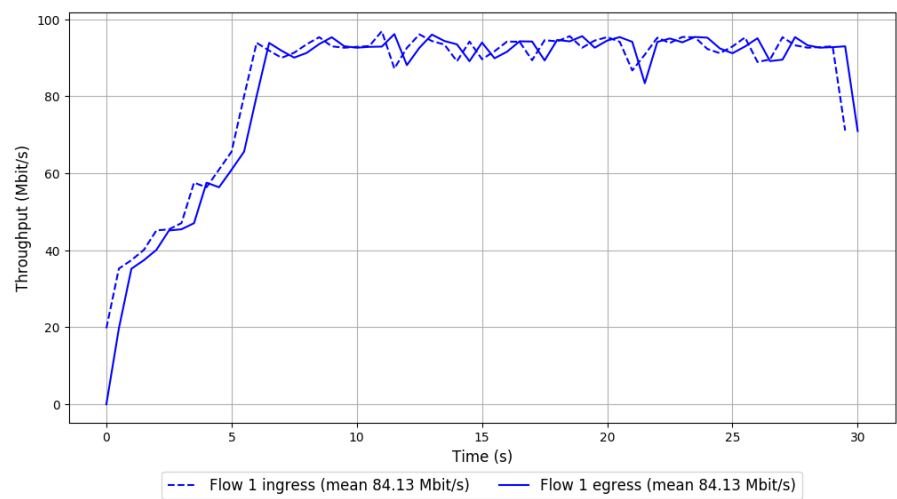
-- Flow 1:

Average throughput: 84.13 Mbit/s

95th percentile per-packet one-way delay: 2.096 ms

Loss rate: 0.01%

Run 5: Report of PCC-Allegro — Data Link

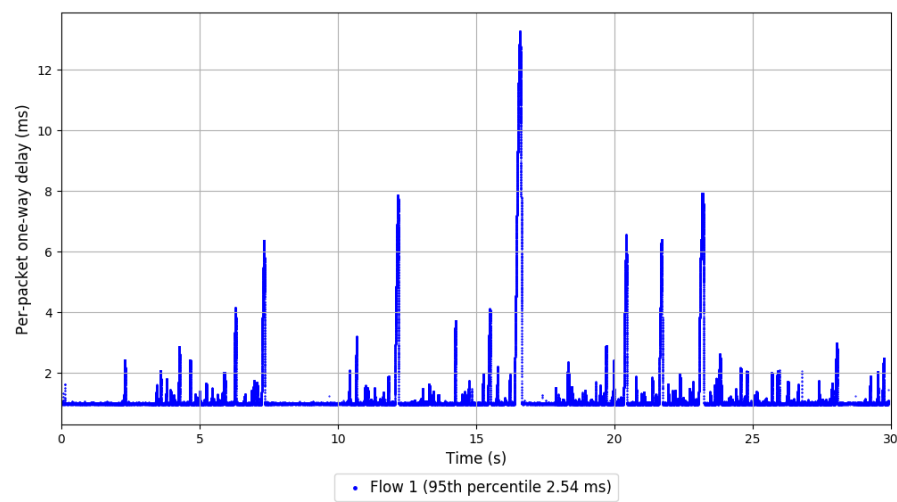
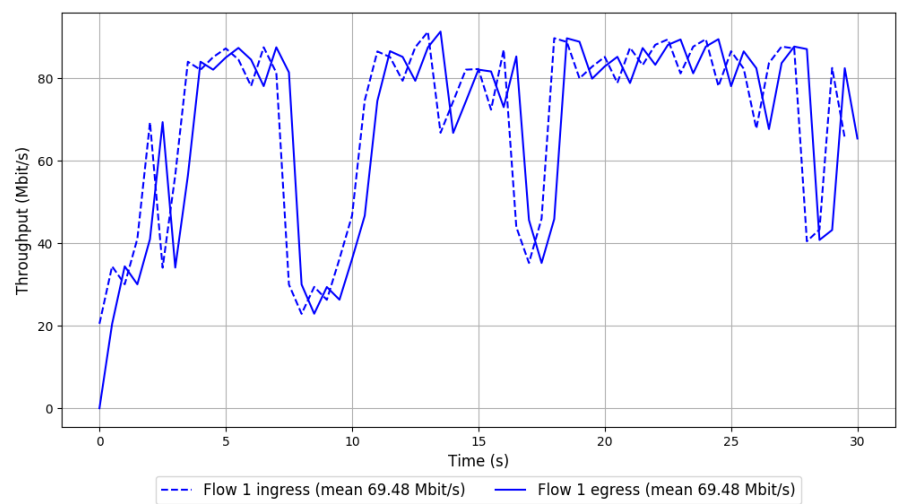


```
Run 1: Statistics of PCC-Expr

Start at: 2019-10-03 06:59:23
End at: 2019-10-03 06:59:53
Local clock offset: -5.552 ms
Remote clock offset: 0.165 ms

# Below is generated by plot.py at 2019-10-03 09:21:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.48 Mbit/s
95th percentile per-packet one-way delay: 2.536 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 69.48 Mbit/s
95th percentile per-packet one-way delay: 2.536 ms
Loss rate: 0.01%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-10-03 07:26:17

End at: 2019-10-03 07:26:47

Local clock offset: -5.821 ms

Remote clock offset: 0.455 ms

Below is generated by plot.py at 2019-10-03 09:21:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.89 Mbit/s

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

Loss rate: 0.01%

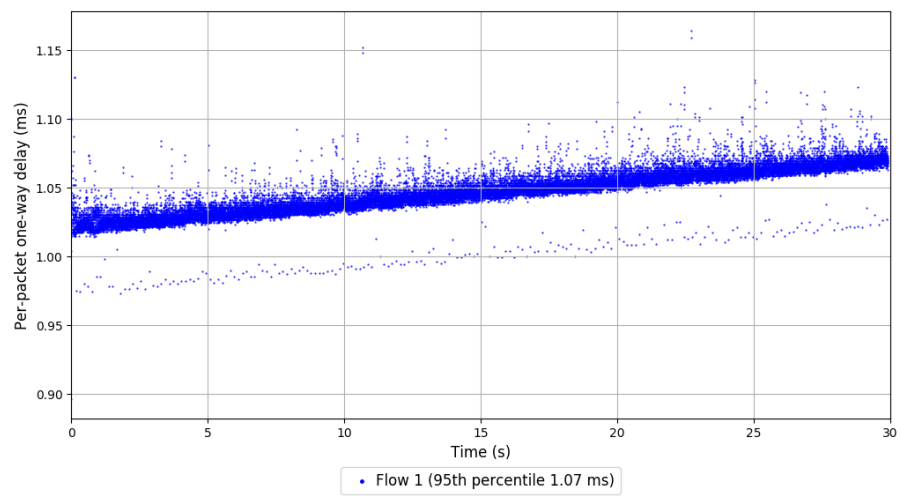
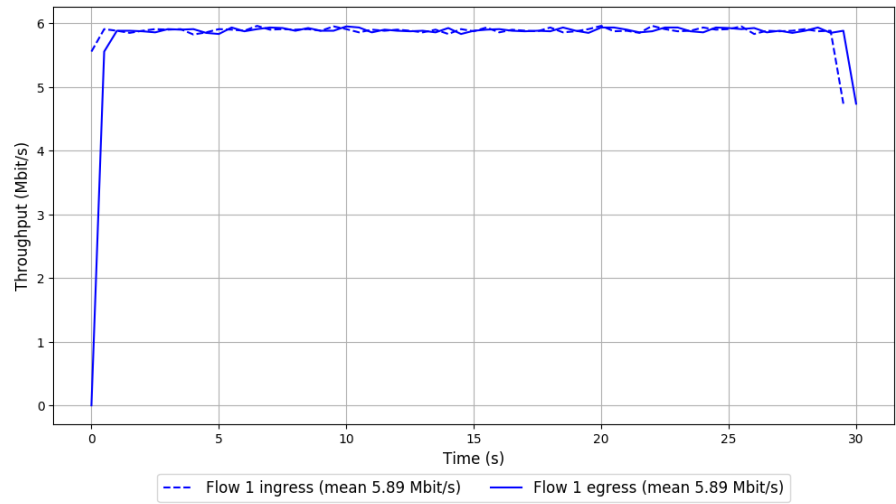
-- Flow 1:

Average throughput: 5.89 Mbit/s

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

Loss rate: 0.01%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-10-03 07:53:04

End at: 2019-10-03 07:53:34

Local clock offset: -6.805 ms

Remote clock offset: 0.746 ms

Below is generated by plot.py at 2019-10-03 09:21:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.88 Mbit/s

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

Loss rate: 0.01%

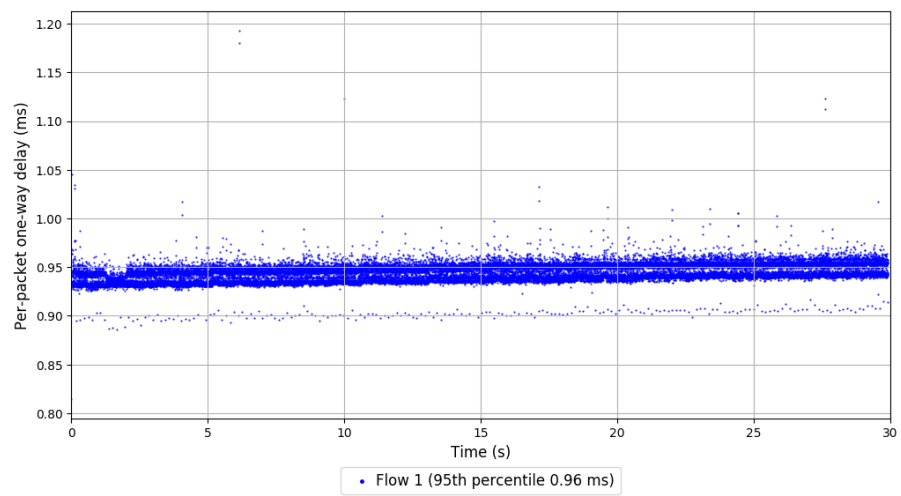
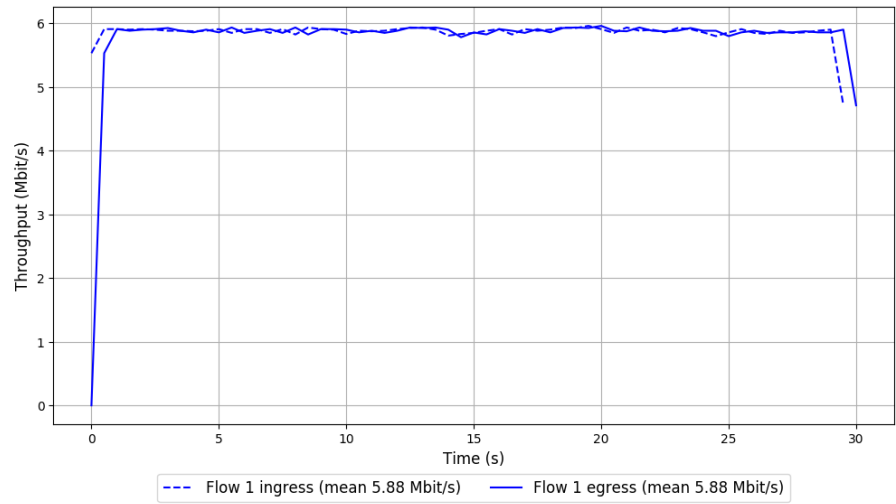
-- Flow 1:

Average throughput: 5.88 Mbit/s

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

Loss rate: 0.01%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-10-03 08:19:54

End at: 2019-10-03 08:20:24

Local clock offset: -6.563 ms

Remote clock offset: 0.885 ms

Below is generated by plot.py at 2019-10-03 09:21:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.09 Mbit/s

95th percentile per-packet one-way delay: 1.979 ms

Loss rate: 0.01%

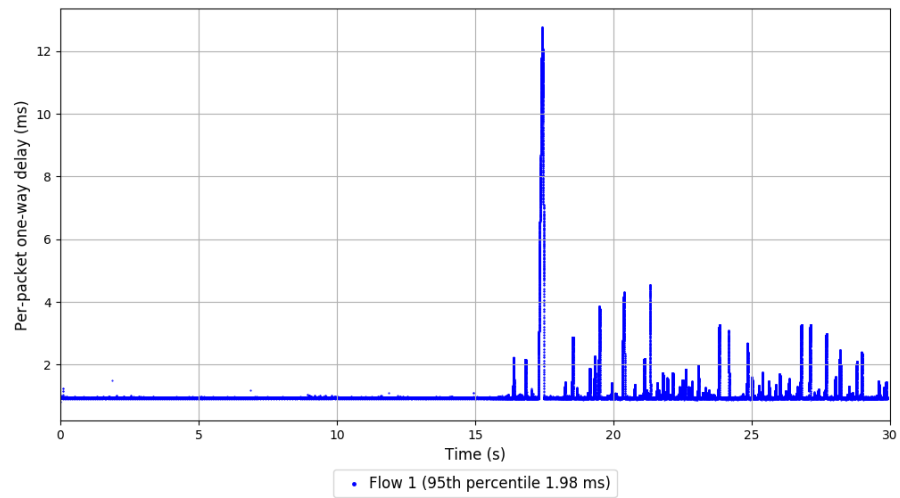
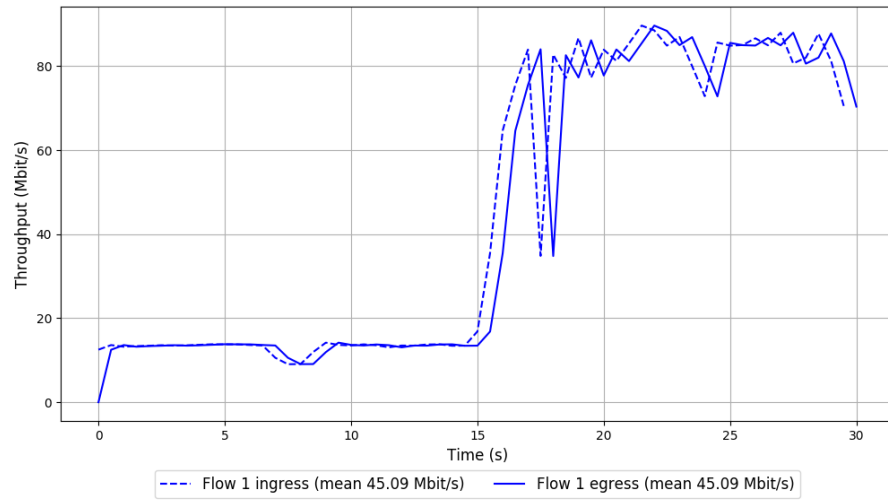
-- Flow 1:

Average throughput: 45.09 Mbit/s

95th percentile per-packet one-way delay: 1.979 ms

Loss rate: 0.01%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

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

End at: 2019-10-03 08:47:16

Local clock offset: -5.36 ms

Remote clock offset: 0.773 ms

Below is generated by plot.py at 2019-10-03 09:21:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.55 Mbit/s

95th percentile per-packet one-way delay: 2.294 ms

Loss rate: 0.00%

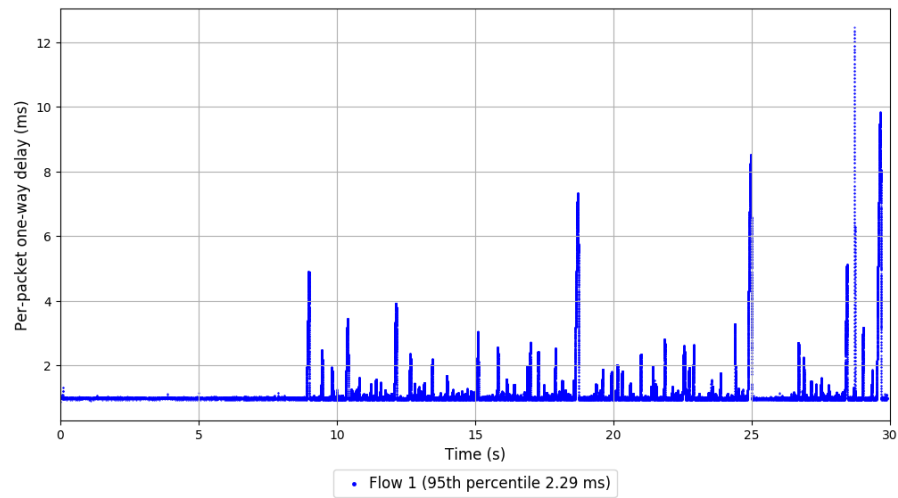
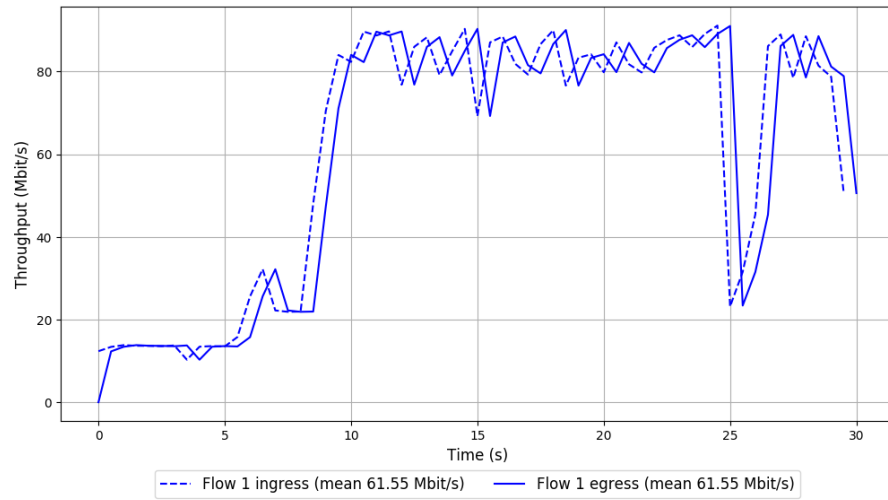
-- Flow 1:

Average throughput: 61.55 Mbit/s

95th percentile per-packet one-way delay: 2.294 ms

Loss rate: 0.00%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-10-03 07:12:56

End at: 2019-10-03 07:13:26

Local clock offset: -5.668 ms

Remote clock offset: 0.291 ms

Below is generated by plot.py at 2019-10-03 09:22:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.38 Mbit/s

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

Loss rate: 0.01%

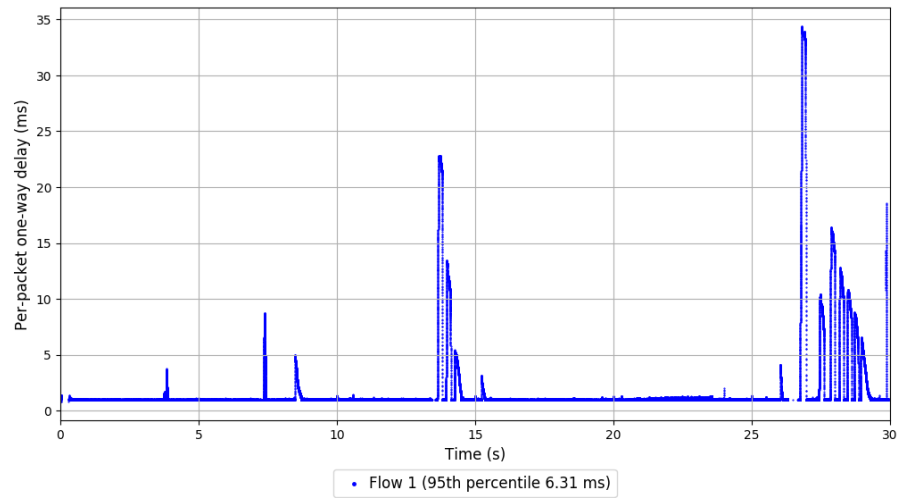
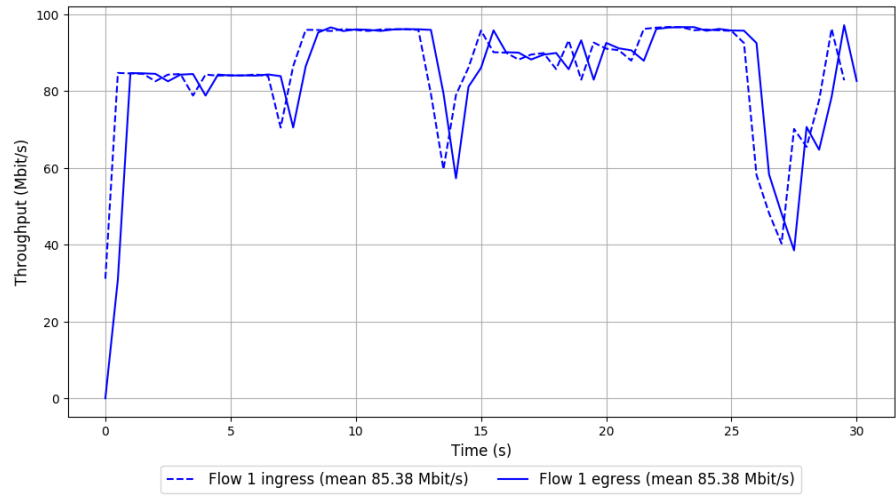
-- Flow 1:

Average throughput: 85.38 Mbit/s

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

Loss rate: 0.01%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-10-03 07:39:43

End at: 2019-10-03 07:40:13

Local clock offset: -6.612 ms

Remote clock offset: 0.694 ms

Below is generated by plot.py at 2019-10-03 09:22:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.29 Mbit/s

95th percentile per-packet one-way delay: 7.793 ms

Loss rate: 0.01%

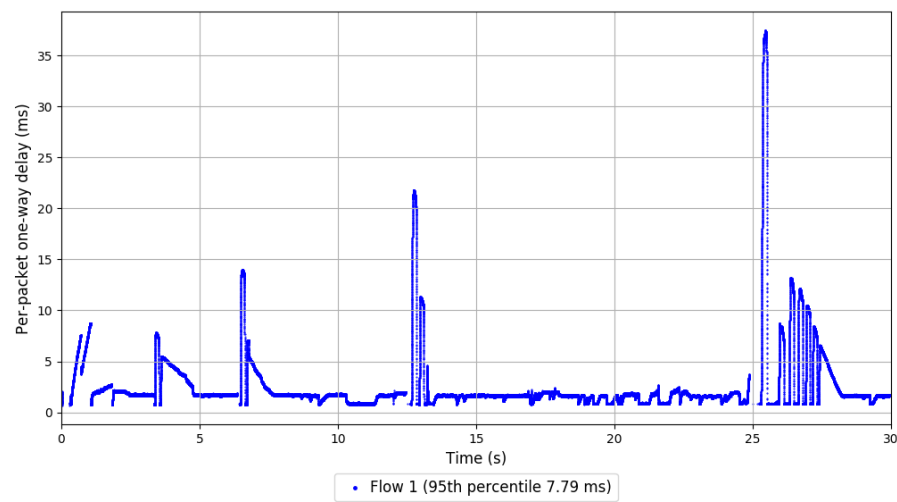
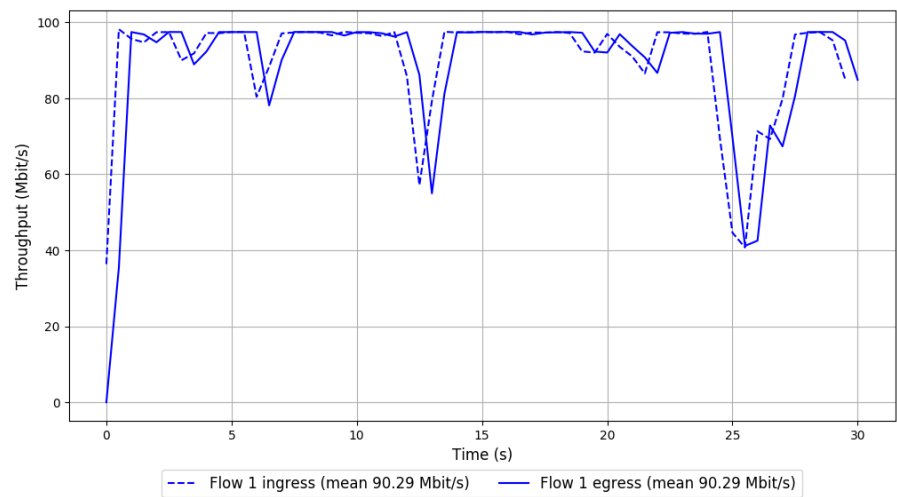
-- Flow 1:

Average throughput: 90.29 Mbit/s

95th percentile per-packet one-way delay: 7.793 ms

Loss rate: 0.01%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-10-03 08:06:32

End at: 2019-10-03 08:07:02

Local clock offset: -6.623 ms

Remote clock offset: 0.858 ms

Below is generated by plot.py at 2019-10-03 09:22:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.93 Mbit/s

95th percentile per-packet one-way delay: 6.294 ms

Loss rate: 0.01%

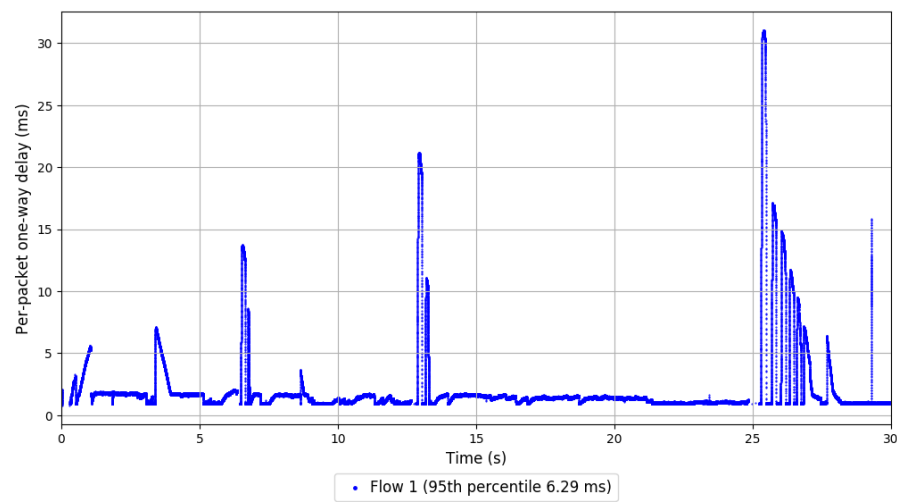
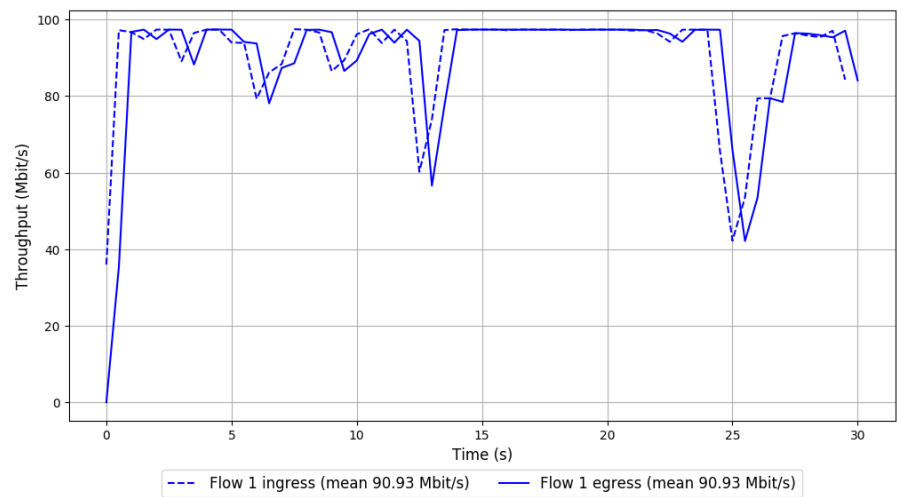
-- Flow 1:

Average throughput: 90.93 Mbit/s

95th percentile per-packet one-way delay: 6.294 ms

Loss rate: 0.01%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-10-03 08:33:25

End at: 2019-10-03 08:33:55

Local clock offset: -5.86 ms

Remote clock offset: 0.918 ms

Below is generated by plot.py at 2019-10-03 09:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.96 Mbit/s

95th percentile per-packet one-way delay: 6.593 ms

Loss rate: 0.01%

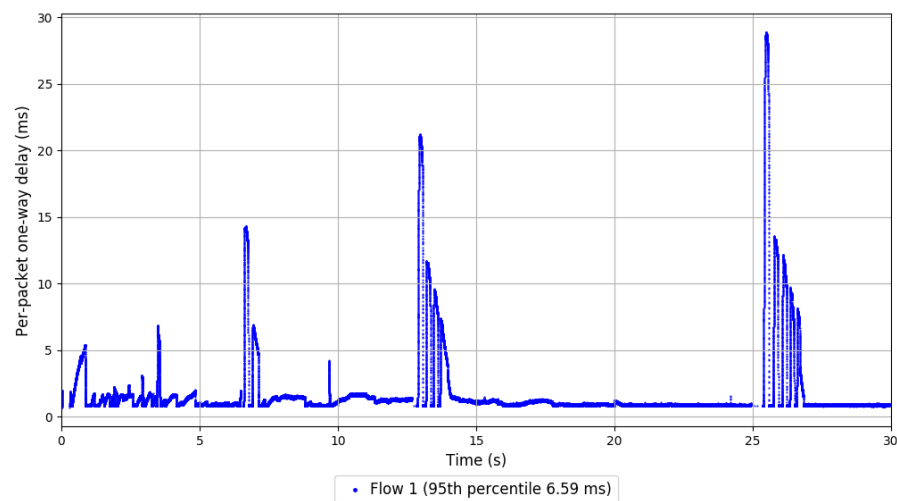
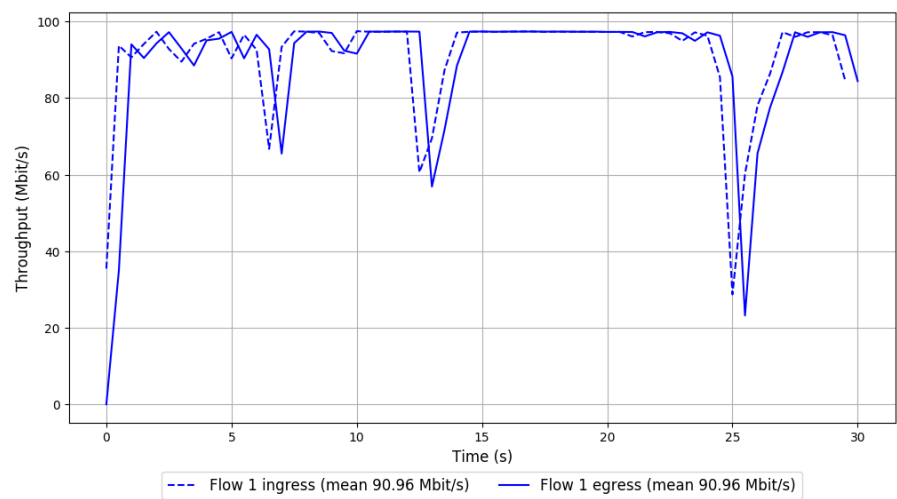
-- Flow 1:

Average throughput: 90.96 Mbit/s

95th percentile per-packet one-way delay: 6.593 ms

Loss rate: 0.01%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-10-03 09:00:18

End at: 2019-10-03 09:00:48

Local clock offset: -5.832 ms

Remote clock offset: 0.784 ms

Below is generated by plot.py at 2019-10-03 09:22:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.15 Mbit/s

95th percentile per-packet one-way delay: 4.756 ms

Loss rate: 0.01%

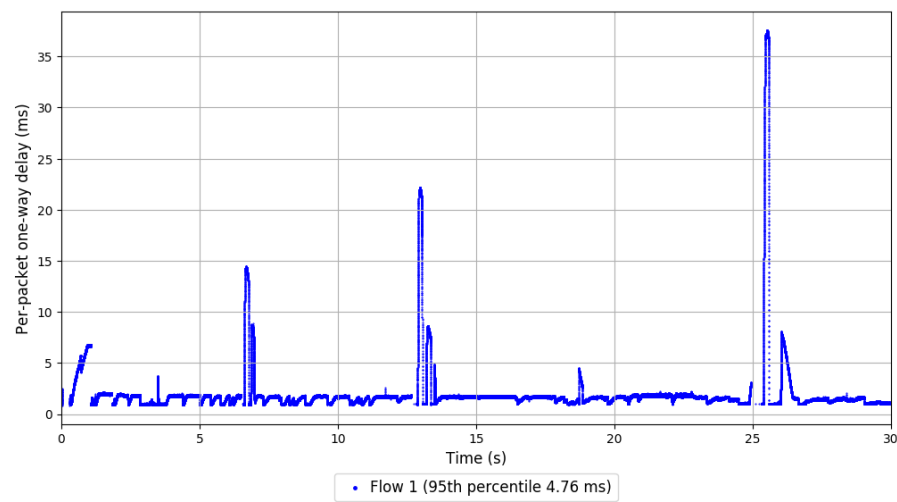
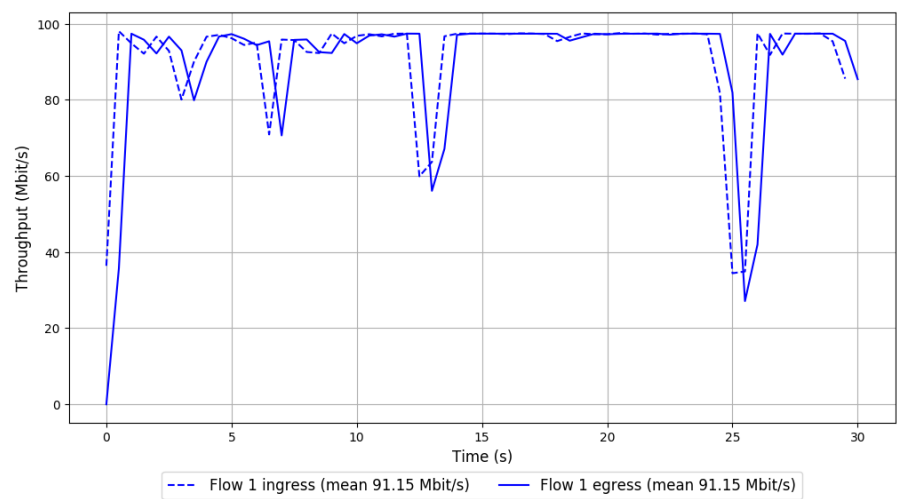
-- Flow 1:

Average throughput: 91.15 Mbit/s

95th percentile per-packet one-way delay: 4.756 ms

Loss rate: 0.01%

Run 5: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2019-10-03 07:14:04

End at: 2019-10-03 07:14:34

Local clock offset: -5.728 ms

Remote clock offset: 0.324 ms

Below is generated by plot.py at 2019-10-03 09:22:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 0.900 ms

Loss rate: 0.13%

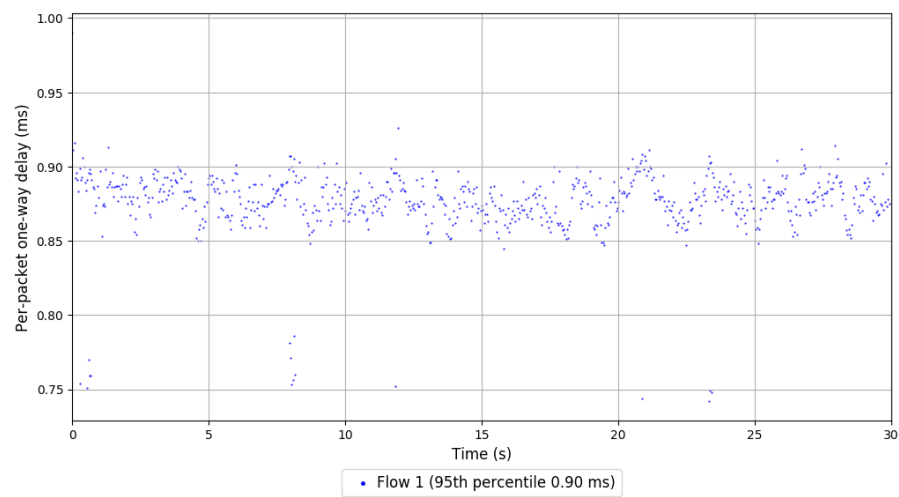
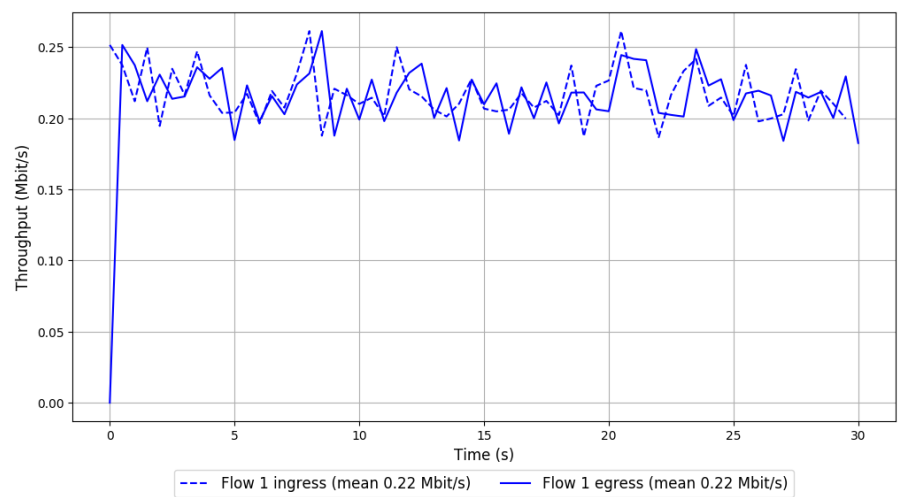
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 0.900 ms

Loss rate: 0.13%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-10-03 07:40:51

End at: 2019-10-03 07:41:21

Local clock offset: -6.636 ms

Remote clock offset: 0.612 ms

Below is generated by plot.py at 2019-10-03 09:22:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 0.909 ms

Loss rate: 0.00%

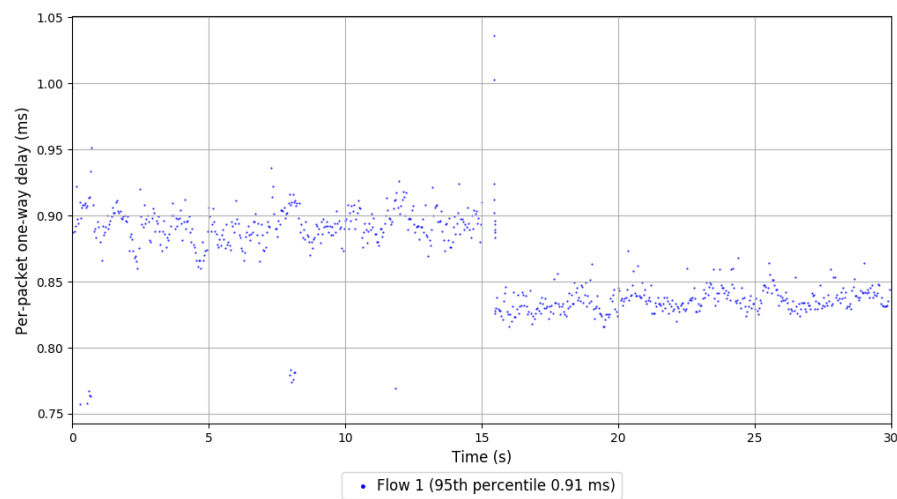
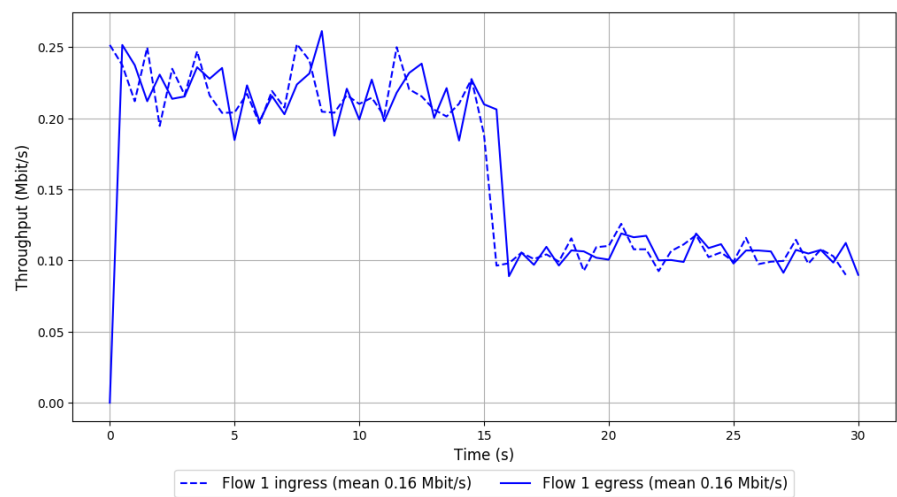
-- Flow 1:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 0.909 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-10-03 08:07:41

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

Local clock offset: -6.564 ms

Remote clock offset: 0.912 ms

Below is generated by plot.py at 2019-10-03 09:22:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.13%

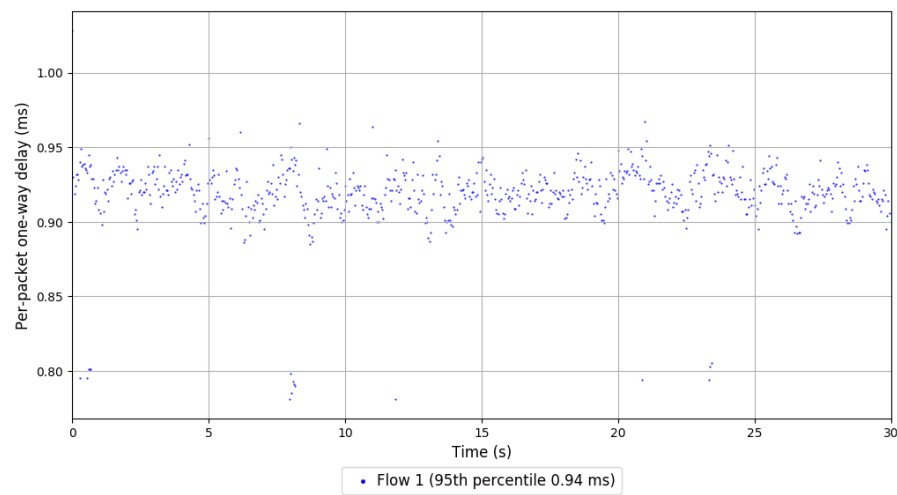
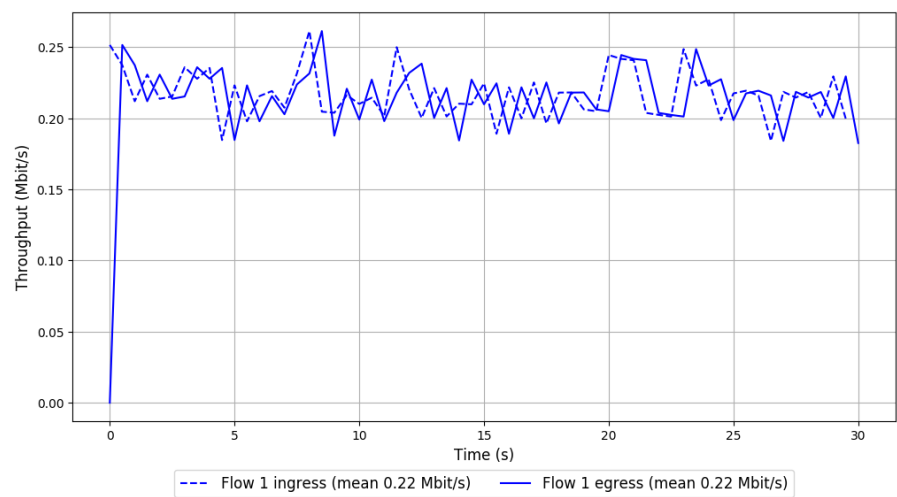
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.13%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-10-03 08:34:33

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

Local clock offset: -5.839 ms

Remote clock offset: 0.777 ms

Below is generated by plot.py at 2019-10-03 09:22:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

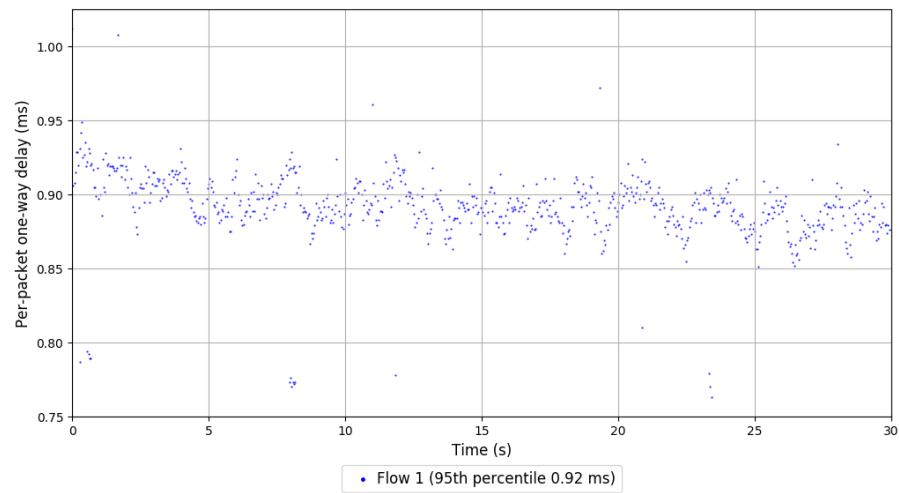
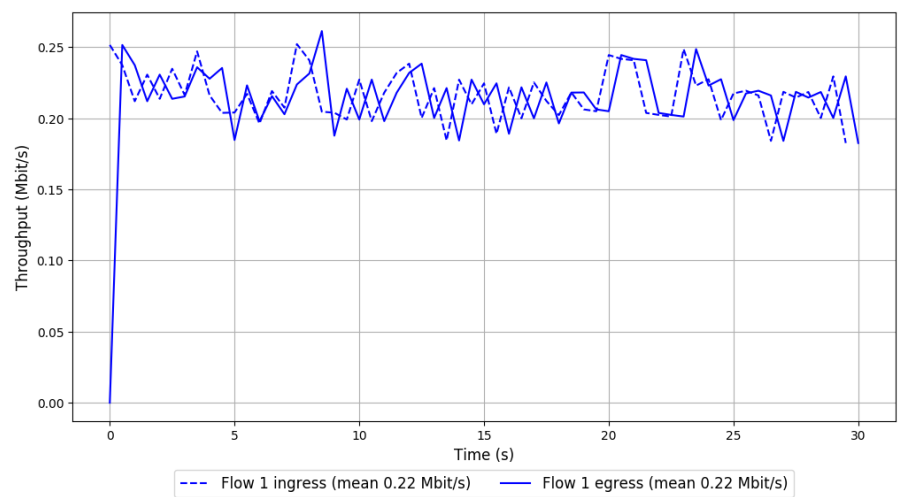
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-10-03 09:01:26

End at: 2019-10-03 09:01:56

Local clock offset: -5.949 ms

Remote clock offset: 0.754 ms

Below is generated by plot.py at 2019-10-03 09:22:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

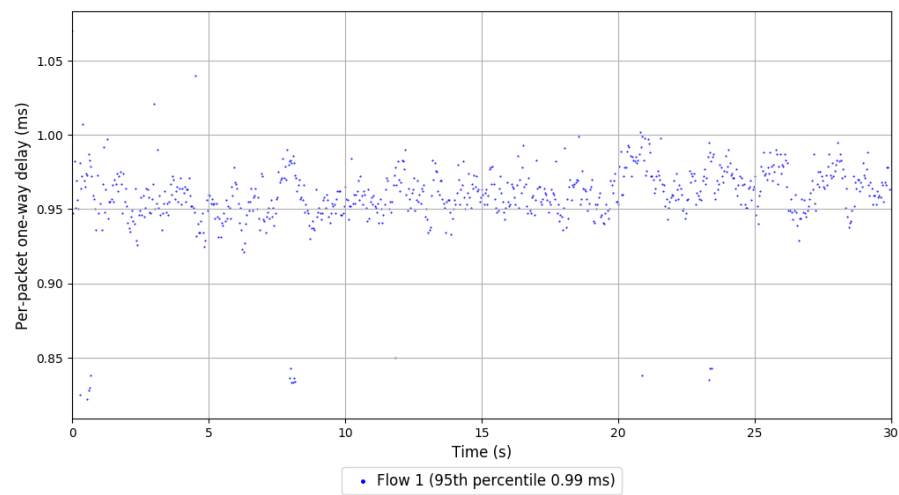
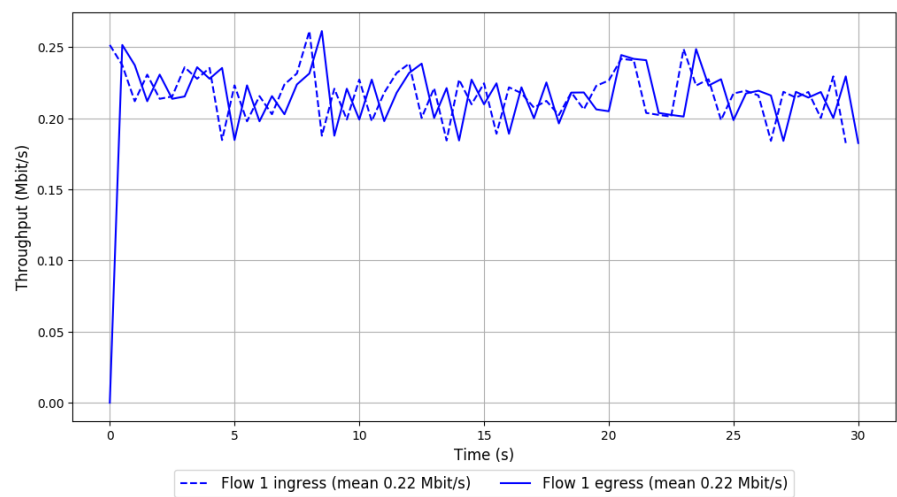
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

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

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

Local clock offset: -5.698 ms

Remote clock offset: 0.27 ms

Below is generated by plot.py at 2019-10-03 09:22:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.30 Mbit/s

95th percentile per-packet one-way delay: 9.303 ms

Loss rate: 0.01%

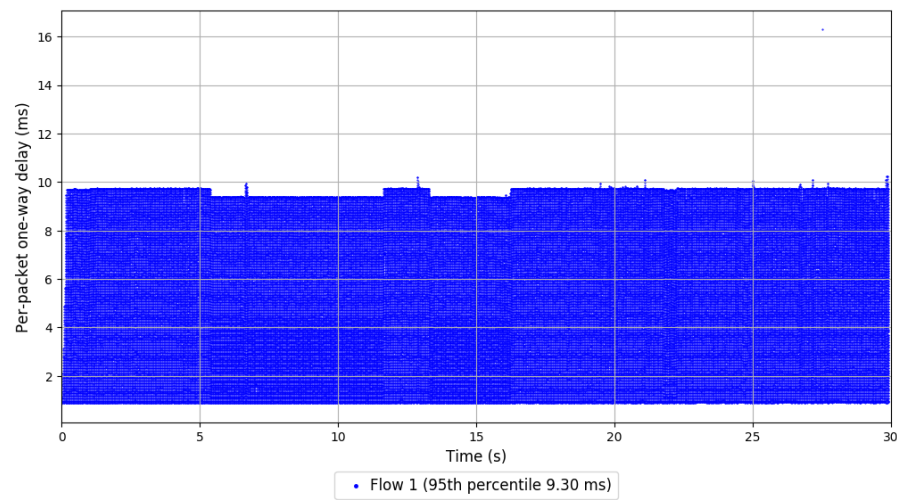
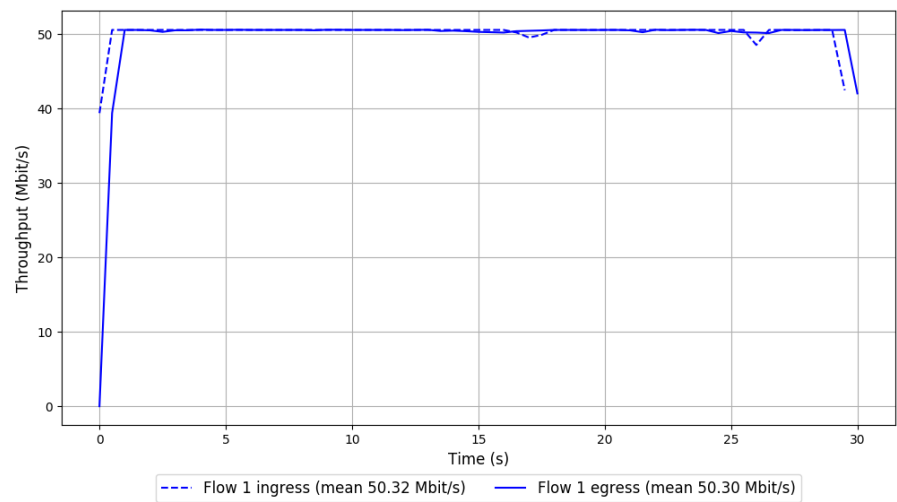
-- Flow 1:

Average throughput: 50.30 Mbit/s

95th percentile per-packet one-way delay: 9.303 ms

Loss rate: 0.01%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-10-03 07:34:13

End at: 2019-10-03 07:34:43

Local clock offset: -6.389 ms

Remote clock offset: 0.665 ms

Below is generated by plot.py at 2019-10-03 09:22:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.25 Mbit/s

95th percentile per-packet one-way delay: 9.225 ms

Loss rate: 0.00%

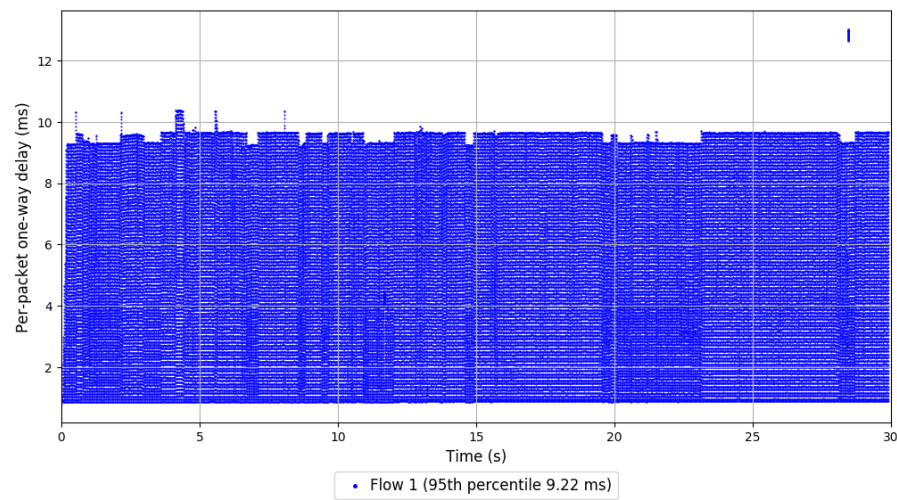
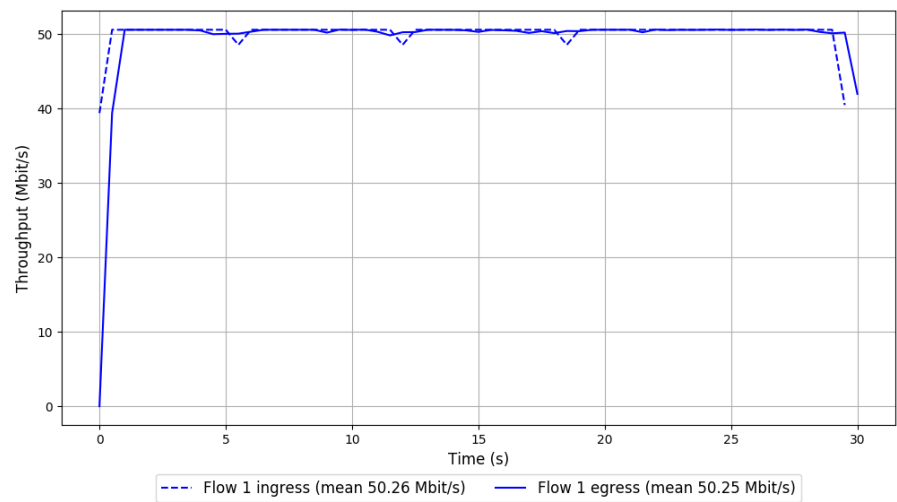
-- Flow 1:

Average throughput: 50.25 Mbit/s

95th percentile per-packet one-way delay: 9.225 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

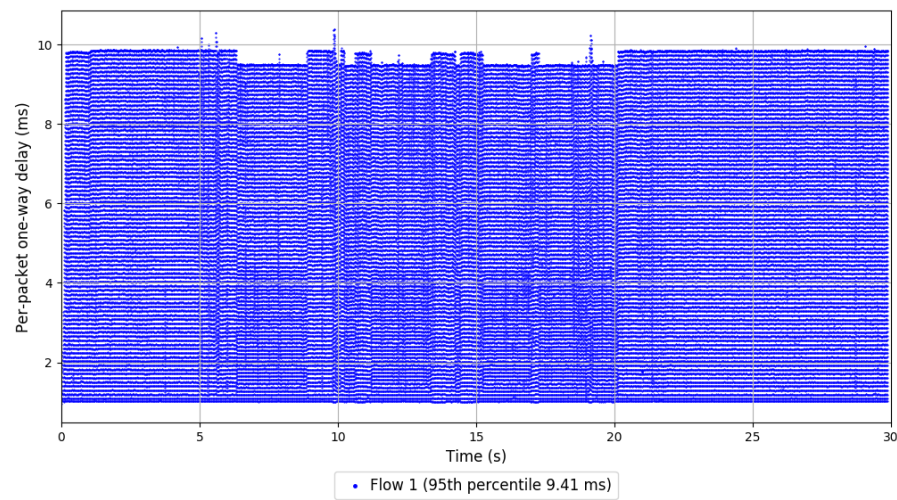
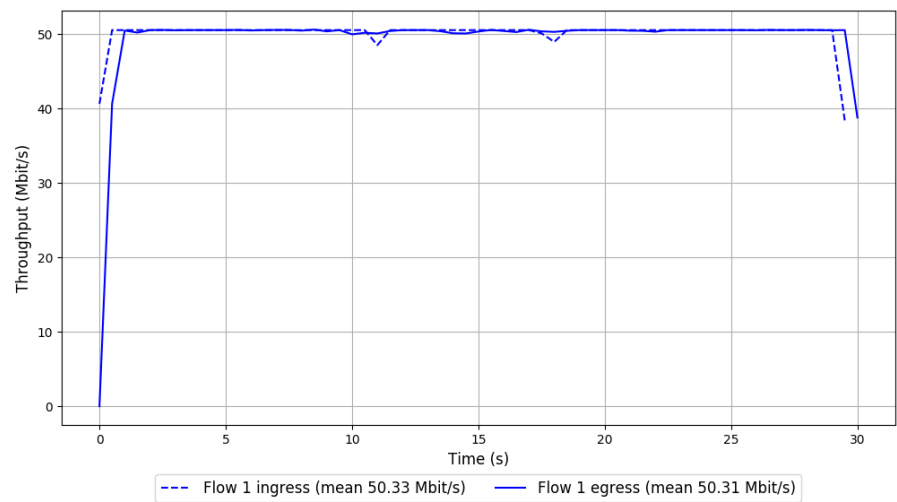


Run 3: Statistics of Sprout

Start at: 2019-10-03 08:01:02
End at: 2019-10-03 08:01:32
Local clock offset: -6.653 ms
Remote clock offset: 0.762 ms

Below is generated by plot.py at 2019-10-03 09:22:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.31 Mbit/s
95th percentile per-packet one-way delay: 9.407 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.31 Mbit/s
95th percentile per-packet one-way delay: 9.407 ms
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

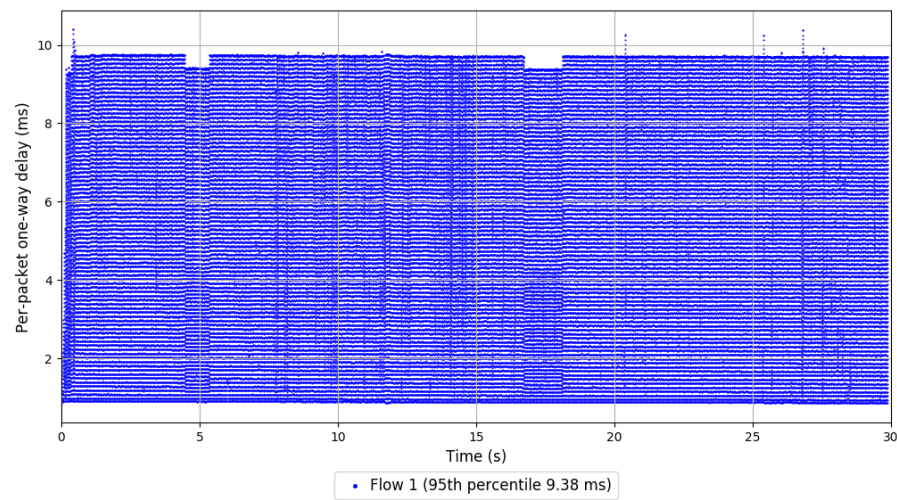
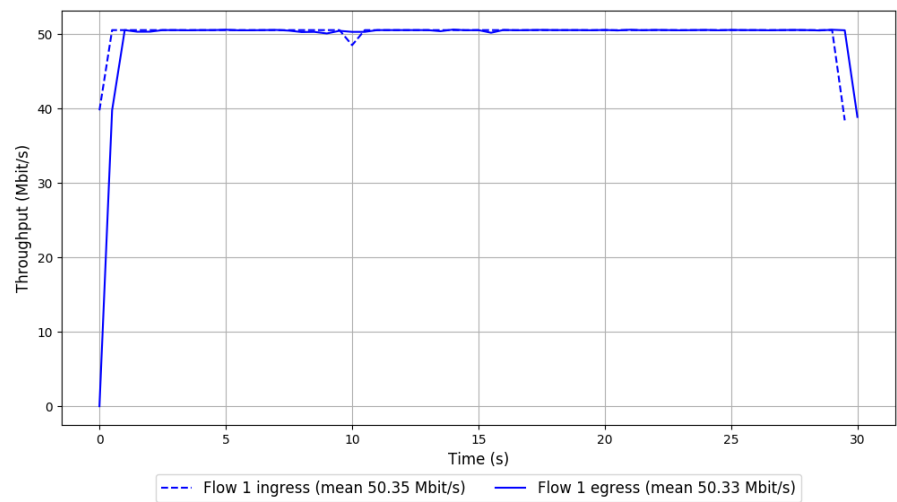


Run 4: Statistics of Sprout

Start at: 2019-10-03 08:27:55
End at: 2019-10-03 08:28:25
Local clock offset: -6.229 ms
Remote clock offset: 0.875 ms

Below is generated by plot.py at 2019-10-03 09:22:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.33 Mbit/s
95th percentile per-packet one-way delay: 9.381 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.33 Mbit/s
95th percentile per-packet one-way delay: 9.381 ms
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-10-03 08:54:48

End at: 2019-10-03 08:55:18

Local clock offset: -5.312 ms

Remote clock offset: 0.862 ms

Below is generated by plot.py at 2019-10-03 09:22:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.29 Mbit/s

95th percentile per-packet one-way delay: 9.351 ms

Loss rate: 0.02%

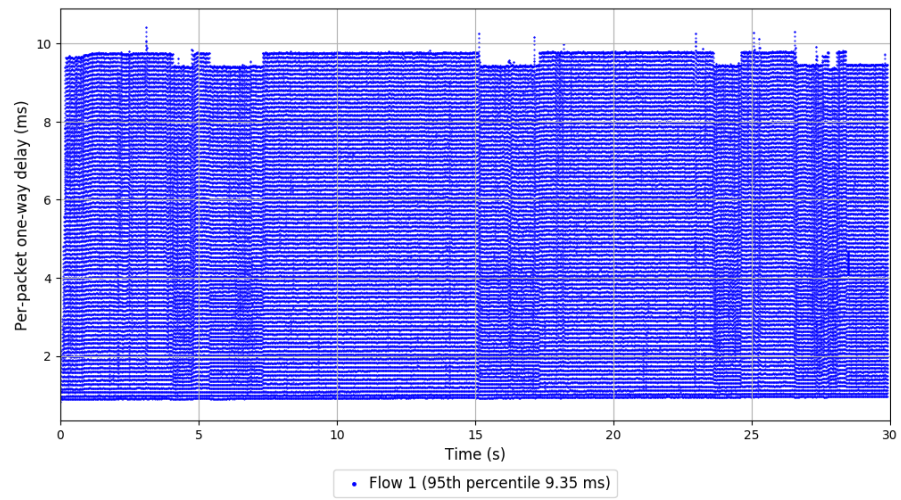
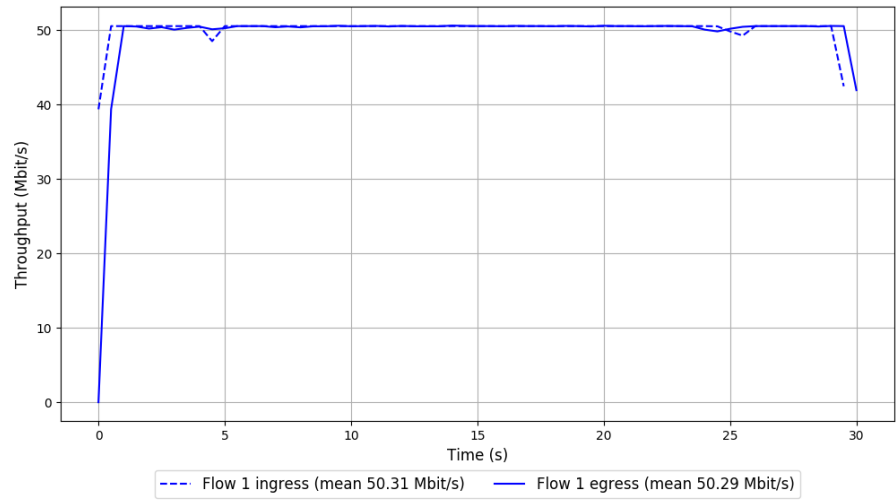
-- Flow 1:

Average throughput: 50.29 Mbit/s

95th percentile per-packet one-way delay: 9.351 ms

Loss rate: 0.02%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

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

End at: 2019-10-03 07:04:28

Local clock offset: -5.673 ms

Remote clock offset: 0.272 ms

Below is generated by plot.py at 2019-10-03 09:24:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.61 Mbit/s

95th percentile per-packet one-way delay: 0.843 ms

Loss rate: 0.01%

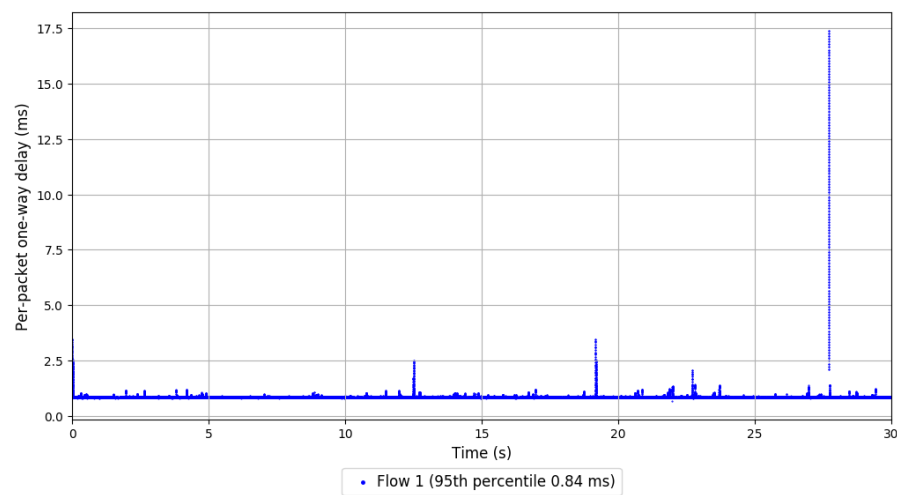
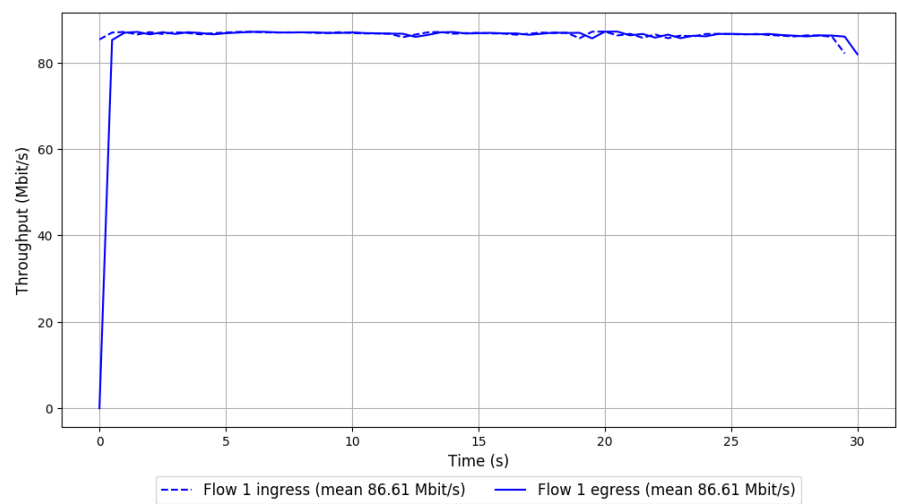
-- Flow 1:

Average throughput: 86.61 Mbit/s

95th percentile per-packet one-way delay: 0.843 ms

Loss rate: 0.01%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-10-03 07:30:47

End at: 2019-10-03 07:31:17

Local clock offset: -6.166 ms

Remote clock offset: 0.561 ms

Below is generated by plot.py at 2019-10-03 09:24:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.83 Mbit/s

95th percentile per-packet one-way delay: 0.969 ms

Loss rate: 0.00%

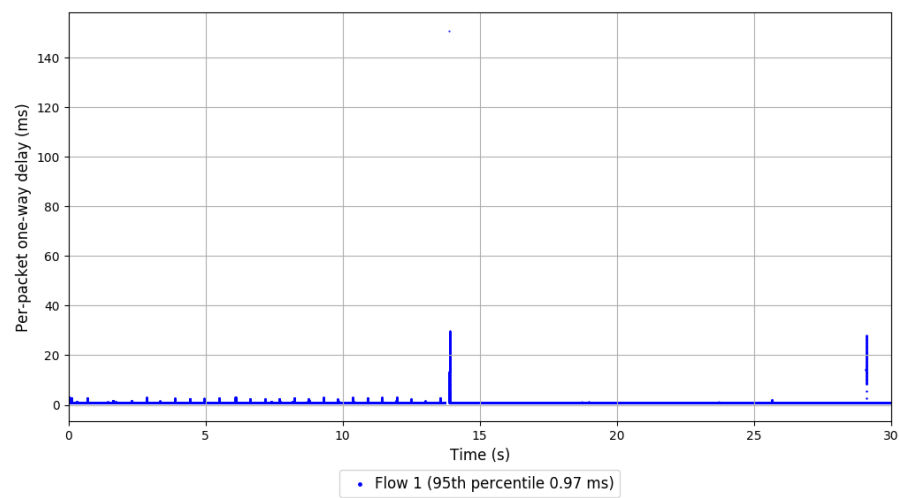
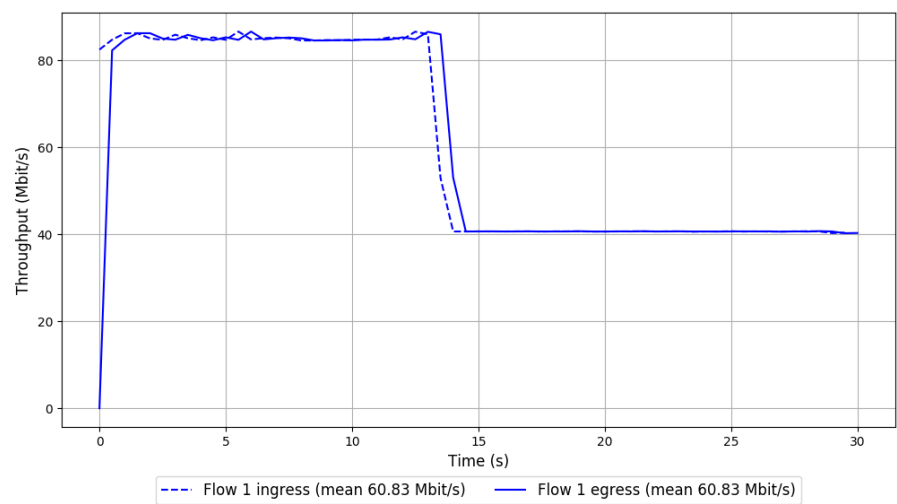
-- Flow 1:

Average throughput: 60.83 Mbit/s

95th percentile per-packet one-way delay: 0.969 ms

Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-10-03 07:57:35

End at: 2019-10-03 07:58:05

Local clock offset: -6.783 ms

Remote clock offset: 0.787 ms

Below is generated by plot.py at 2019-10-03 09:24:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.44 Mbit/s

95th percentile per-packet one-way delay: 0.885 ms

Loss rate: 0.01%

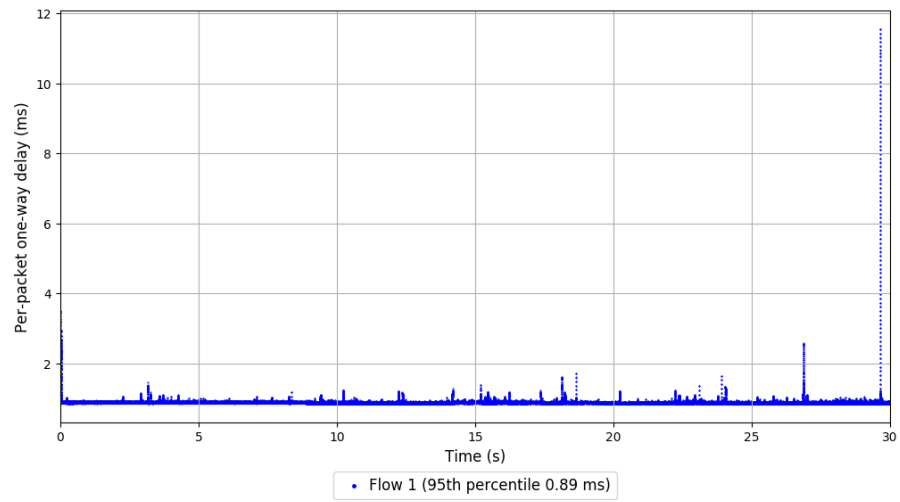
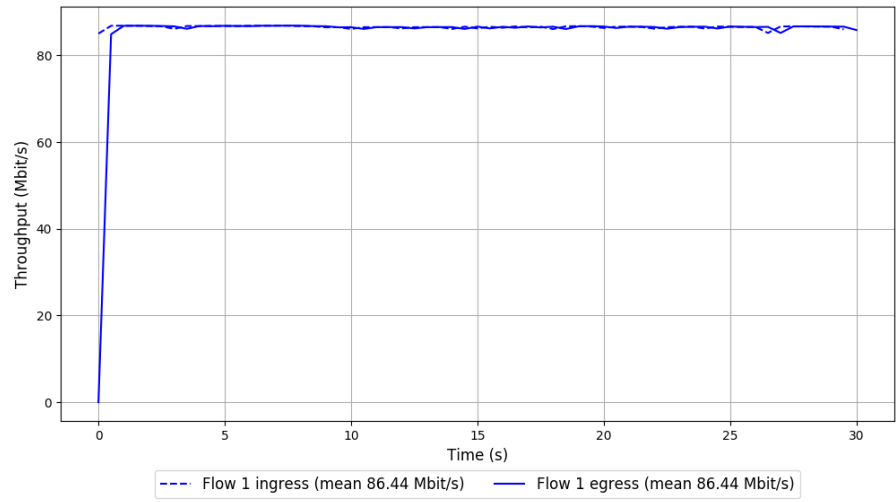
-- Flow 1:

Average throughput: 86.44 Mbit/s

95th percentile per-packet one-way delay: 0.885 ms

Loss rate: 0.01%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-10-03 08:24:27

End at: 2019-10-03 08:24:57

Local clock offset: -6.561 ms

Remote clock offset: 0.876 ms

Below is generated by plot.py at 2019-10-03 09:24:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.74 Mbit/s

95th percentile per-packet one-way delay: 0.922 ms

Loss rate: 0.01%

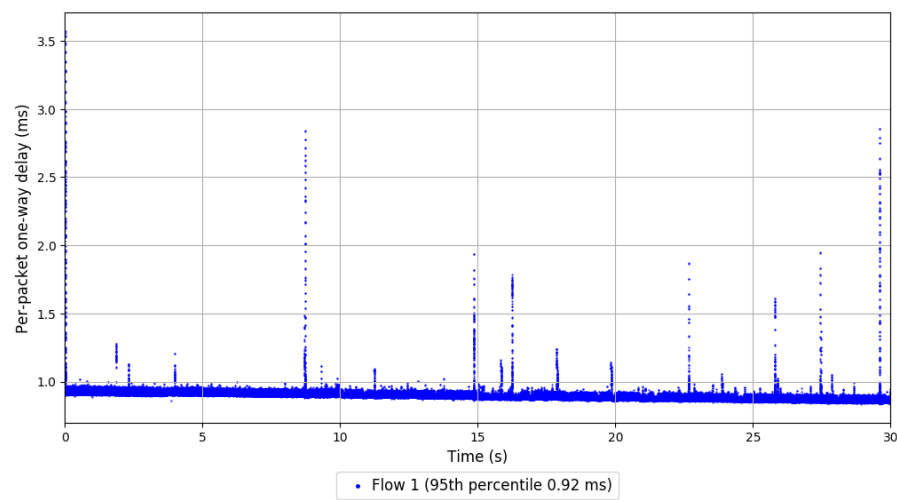
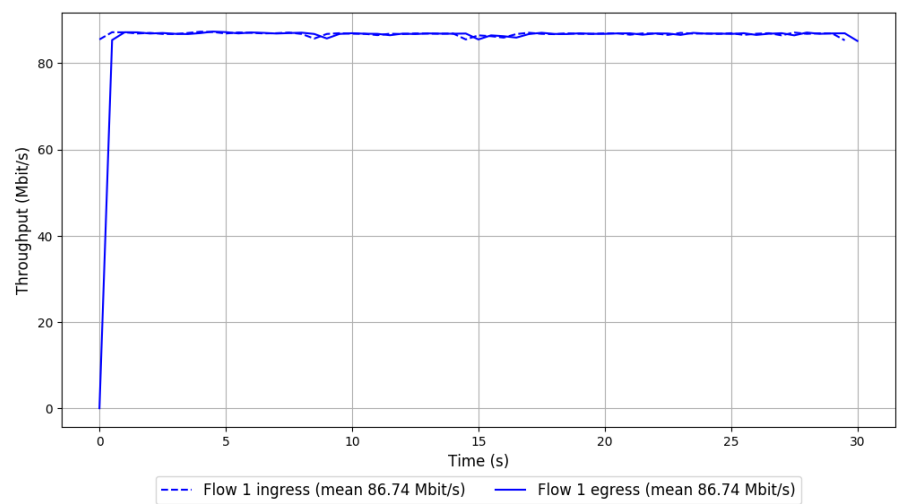
-- Flow 1:

Average throughput: 86.74 Mbit/s

95th percentile per-packet one-way delay: 0.922 ms

Loss rate: 0.01%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-10-03 08:51:20

End at: 2019-10-03 08:51:50

Local clock offset: -5.297 ms

Remote clock offset: 0.82 ms

Below is generated by plot.py at 2019-10-03 09:24:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.54 Mbit/s

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

Loss rate: 0.01%

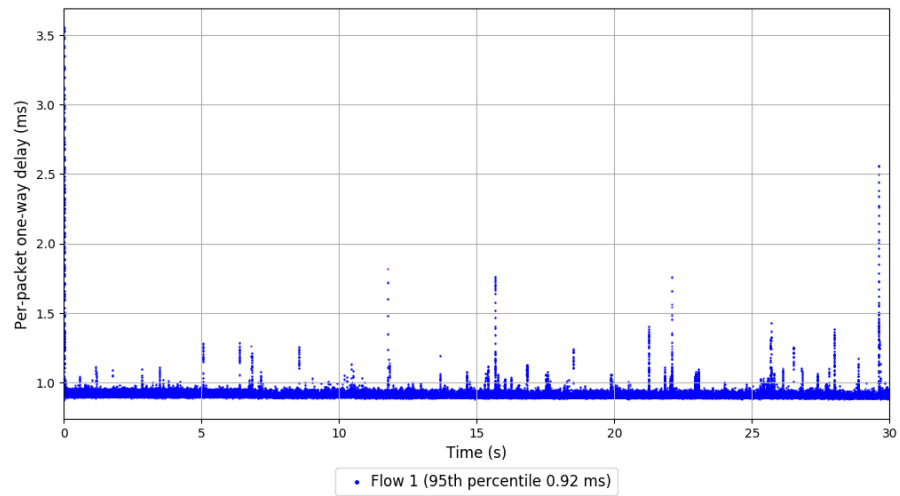
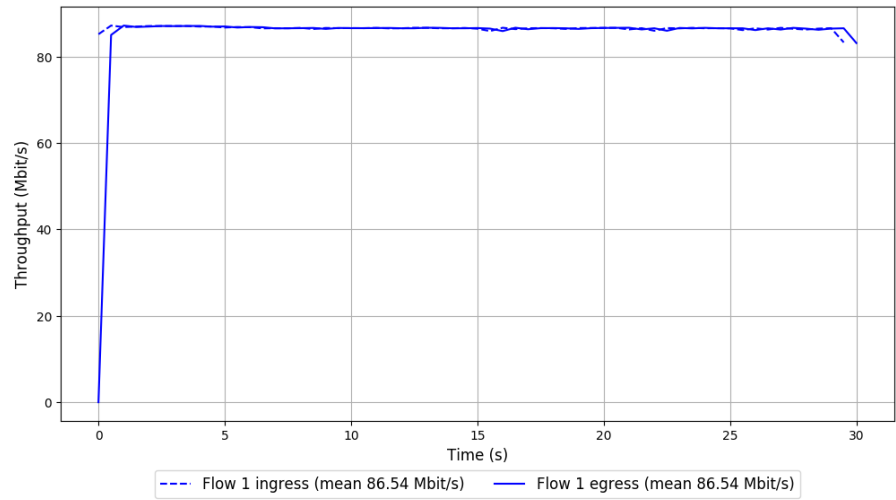
-- Flow 1:

Average throughput: 86.54 Mbit/s

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

Loss rate: 0.01%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-10-03 07:17:20

End at: 2019-10-03 07:17:50

Local clock offset: -5.729 ms

Remote clock offset: 0.377 ms

Below is generated by plot.py at 2019-10-03 09:24:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.32 Mbit/s

95th percentile per-packet one-way delay: 1.928 ms

Loss rate: 0.01%

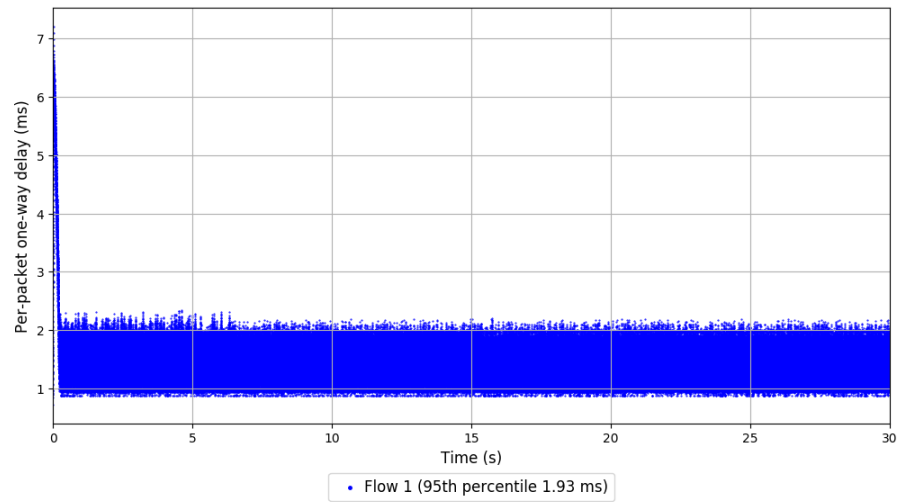
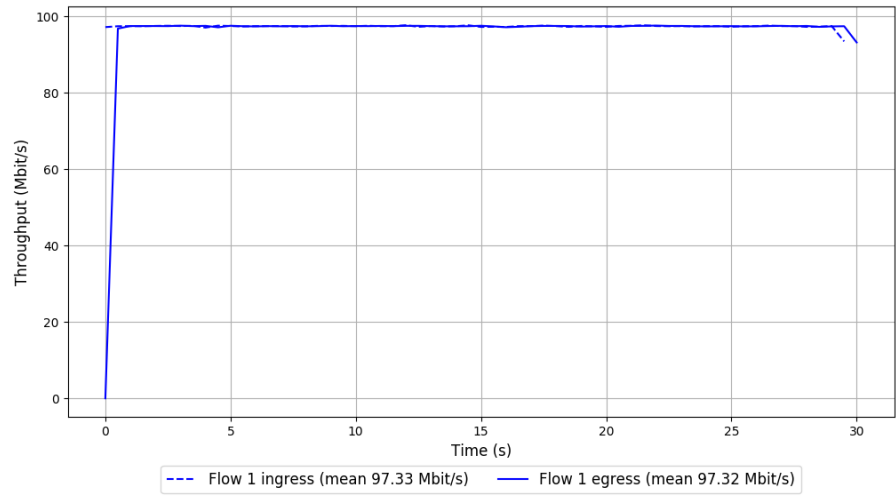
-- Flow 1:

Average throughput: 97.32 Mbit/s

95th percentile per-packet one-way delay: 1.928 ms

Loss rate: 0.01%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

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

End at: 2019-10-03 07:44:38

Local clock offset: -6.639 ms

Remote clock offset: 0.716 ms

Below is generated by plot.py at 2019-10-03 09:24:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.95 Mbit/s

95th percentile per-packet one-way delay: 1.853 ms

Loss rate: 0.01%

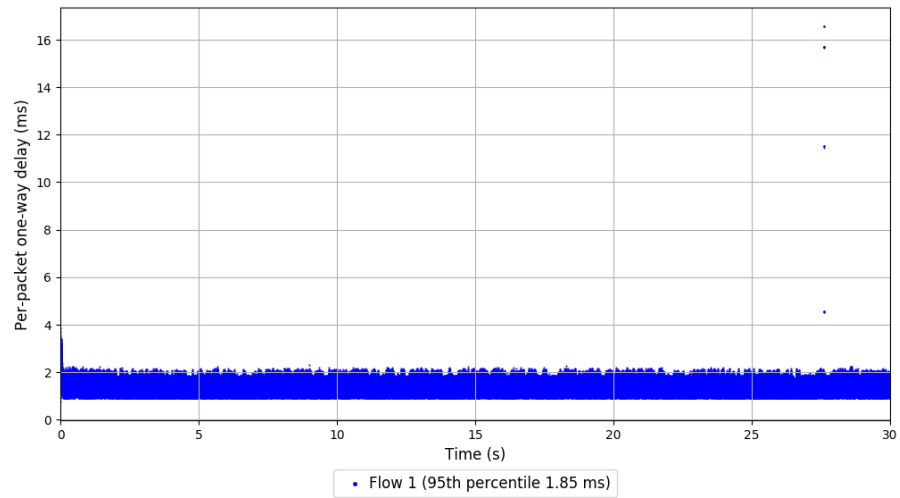
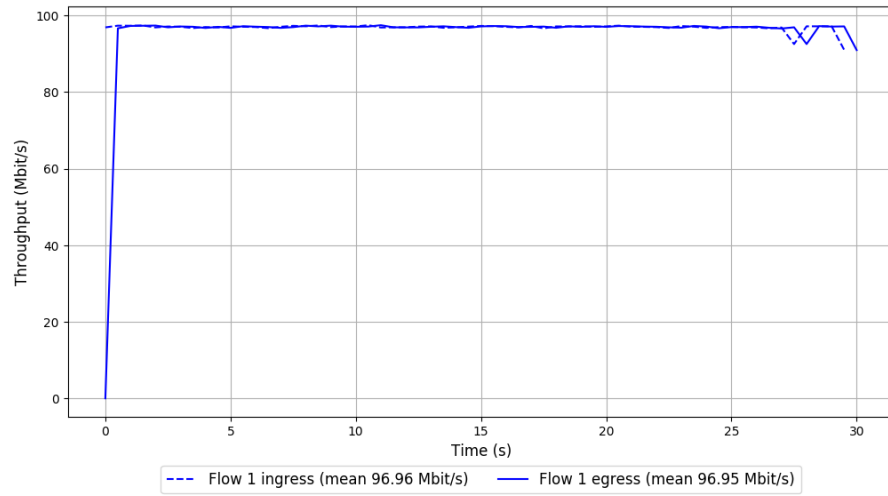
-- Flow 1:

Average throughput: 96.95 Mbit/s

95th percentile per-packet one-way delay: 1.853 ms

Loss rate: 0.01%

Run 2: Report of TCP Vegas — Data Link

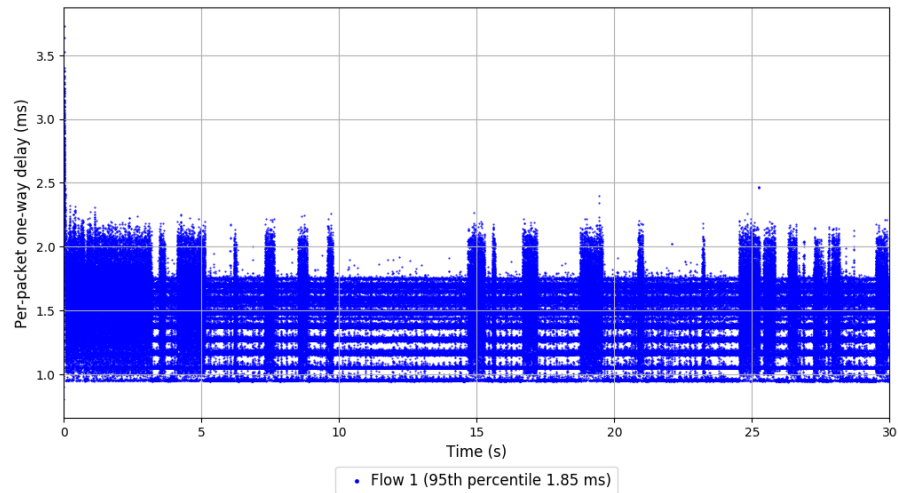
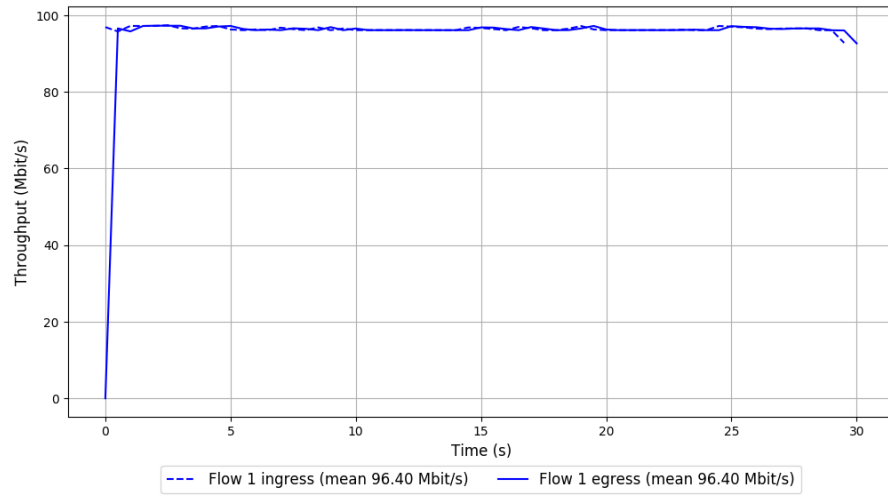


Run 3: Statistics of TCP Vegas

Start at: 2019-10-03 08:10:57
End at: 2019-10-03 08:11:27
Local clock offset: -6.561 ms
Remote clock offset: 0.875 ms

Below is generated by plot.py at 2019-10-03 09:24:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.40 Mbit/s
95th percentile per-packet one-way delay: 1.854 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.40 Mbit/s
95th percentile per-packet one-way delay: 1.854 ms
Loss rate: 0.01%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-10-03 08:37:50

End at: 2019-10-03 08:38:20

Local clock offset: -5.619 ms

Remote clock offset: 0.744 ms

Below is generated by plot.py at 2019-10-03 09:24:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.13 Mbit/s

95th percentile per-packet one-way delay: 2.057 ms

Loss rate: 0.01%

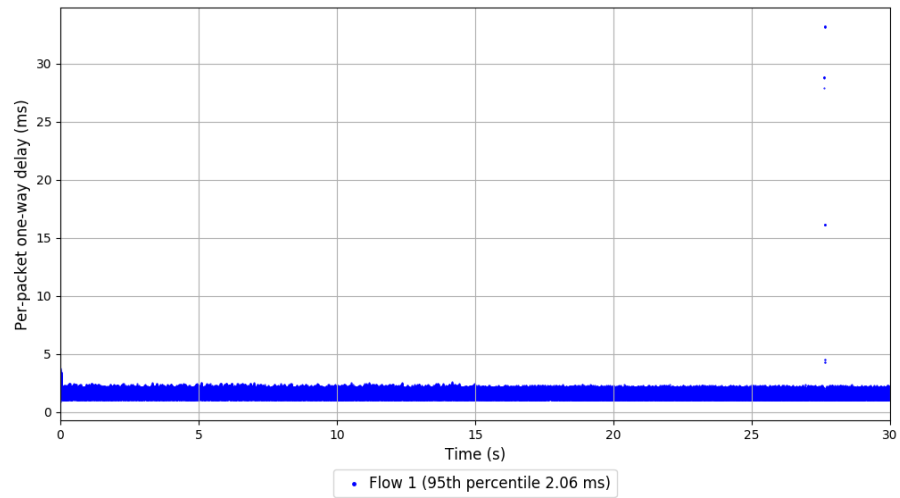
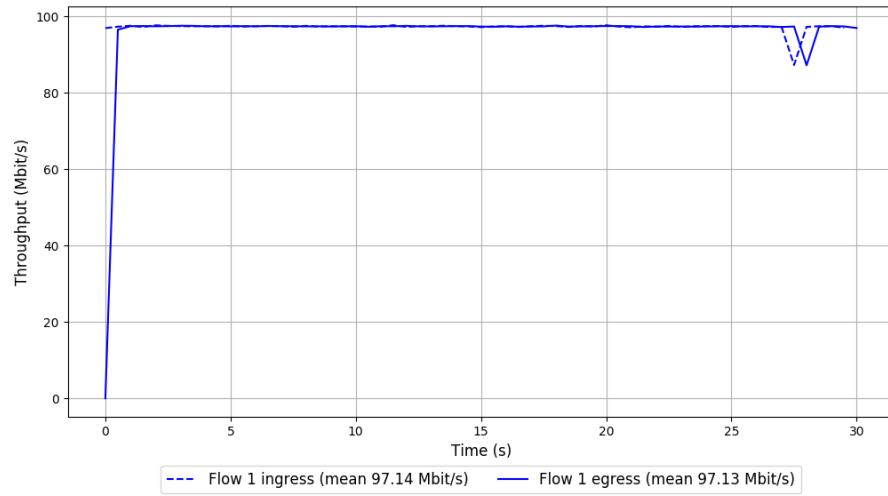
-- Flow 1:

Average throughput: 97.13 Mbit/s

95th percentile per-packet one-way delay: 2.057 ms

Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-10-03 09:04:43

End at: 2019-10-03 09:05:13

Local clock offset: -6.14 ms

Remote clock offset: 0.709 ms

Below is generated by plot.py at 2019-10-03 09:24:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.17 Mbit/s

95th percentile per-packet one-way delay: 1.999 ms

Loss rate: 0.01%

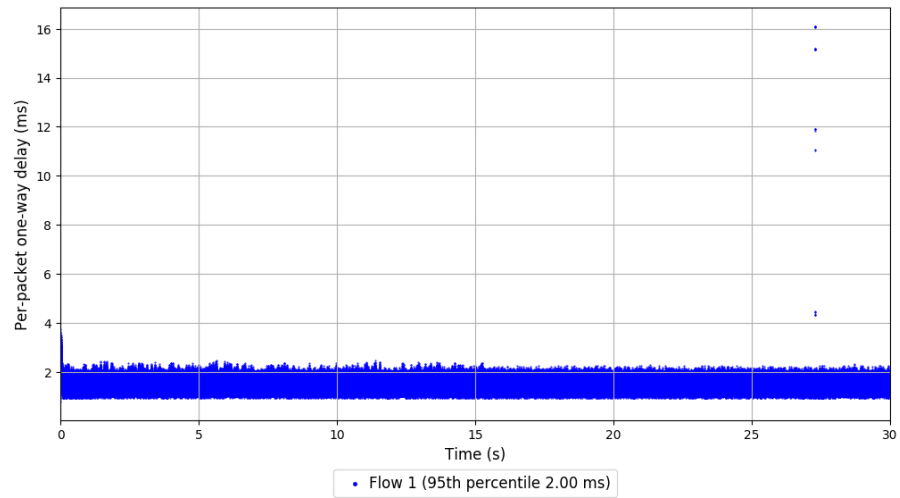
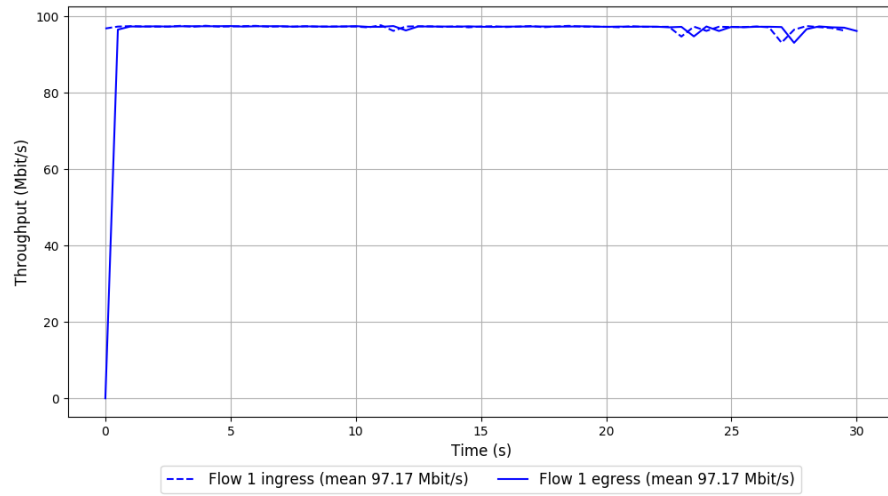
-- Flow 1:

Average throughput: 97.17 Mbit/s

95th percentile per-packet one-way delay: 1.999 ms

Loss rate: 0.01%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-10-03 07:16:13

End at: 2019-10-03 07:16:43

Local clock offset: -5.662 ms

Remote clock offset: 0.279 ms

Below is generated by plot.py at 2019-10-03 09:24:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.13 Mbit/s

95th percentile per-packet one-way delay: 8.039 ms

Loss rate: 0.02%

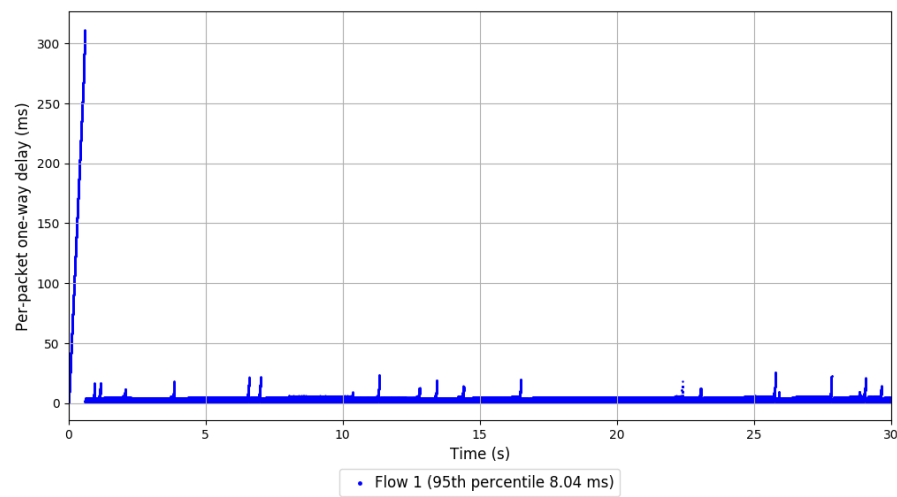
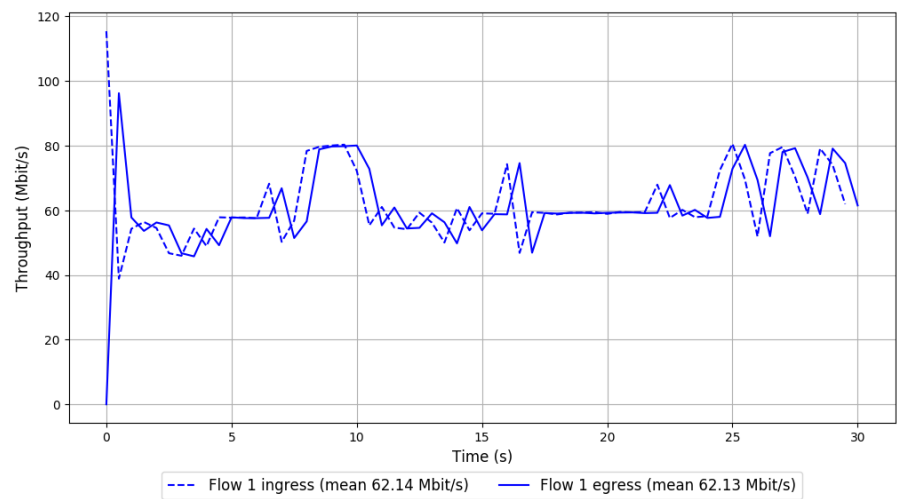
-- Flow 1:

Average throughput: 62.13 Mbit/s

95th percentile per-packet one-way delay: 8.039 ms

Loss rate: 0.02%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-10-03 07:43:01

End at: 2019-10-03 07:43:31

Local clock offset: -6.59 ms

Remote clock offset: 0.688 ms

Below is generated by plot.py at 2019-10-03 09:24:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.79 Mbit/s

95th percentile per-packet one-way delay: 9.210 ms

Loss rate: 0.04%

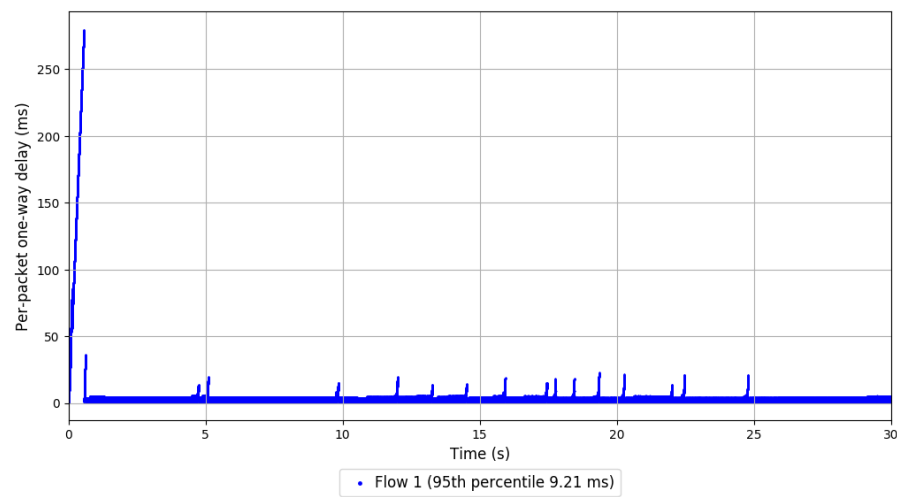
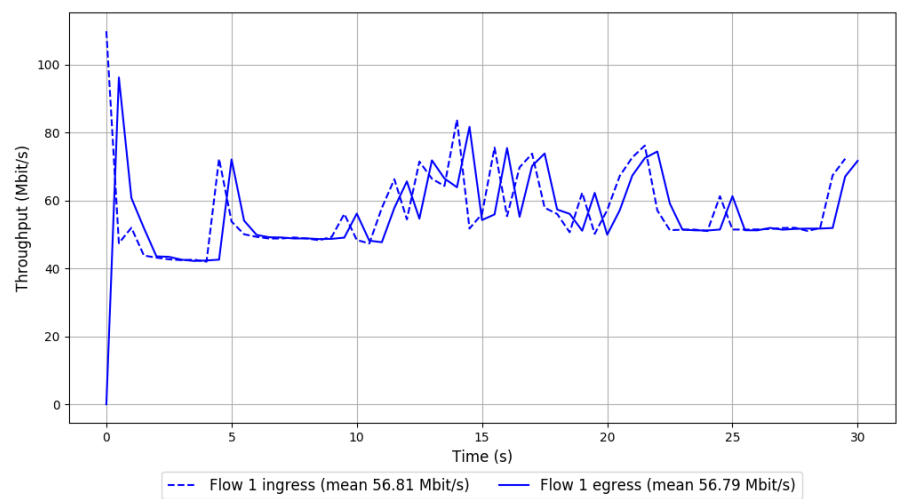
-- Flow 1:

Average throughput: 56.79 Mbit/s

95th percentile per-packet one-way delay: 9.210 ms

Loss rate: 0.04%

Run 2: Report of Verus — Data Link

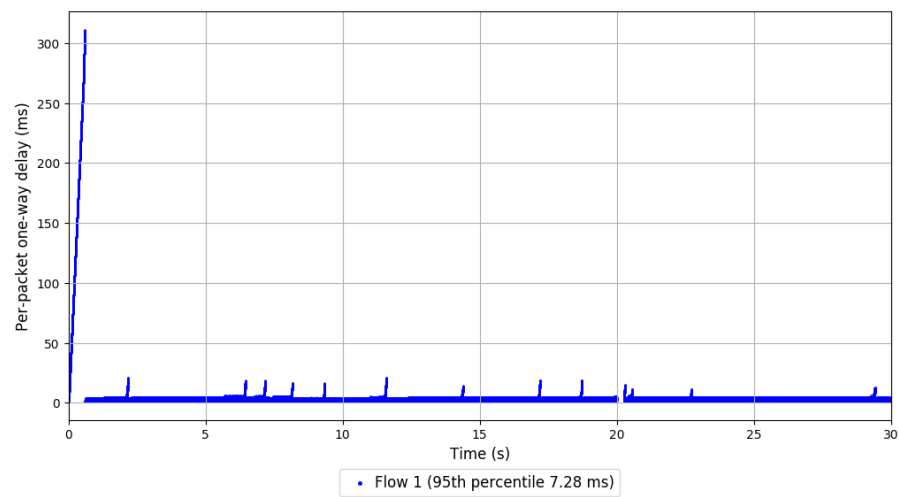
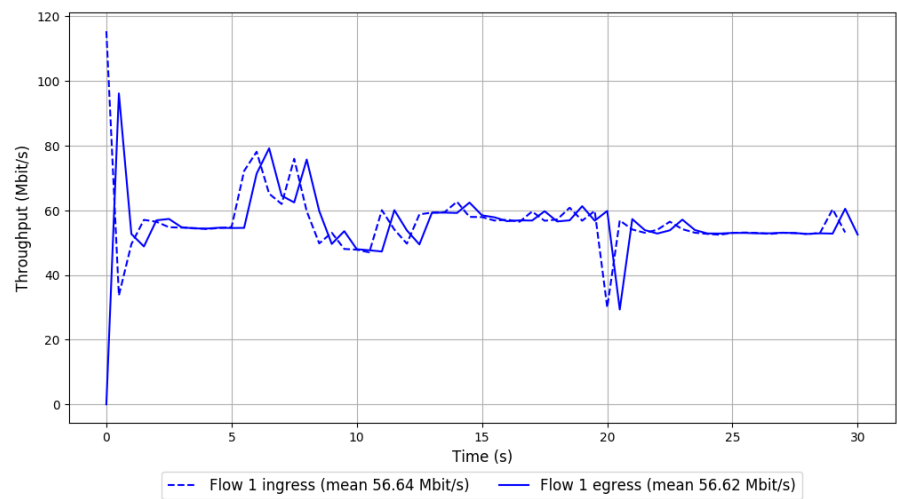


Run 3: Statistics of Verus

Start at: 2019-10-03 08:09:50
End at: 2019-10-03 08:10:20
Local clock offset: -6.563 ms
Remote clock offset: 0.903 ms

Below is generated by plot.py at 2019-10-03 09:25:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 56.62 Mbit/s
95th percentile per-packet one-way delay: 7.277 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 56.62 Mbit/s
95th percentile per-packet one-way delay: 7.277 ms
Loss rate: 0.03%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-10-03 08:36:42

End at: 2019-10-03 08:37:12

Local clock offset: -5.656 ms

Remote clock offset: 0.855 ms

Below is generated by plot.py at 2019-10-03 09:25:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.09 Mbit/s

95th percentile per-packet one-way delay: 6.457 ms

Loss rate: 0.03%

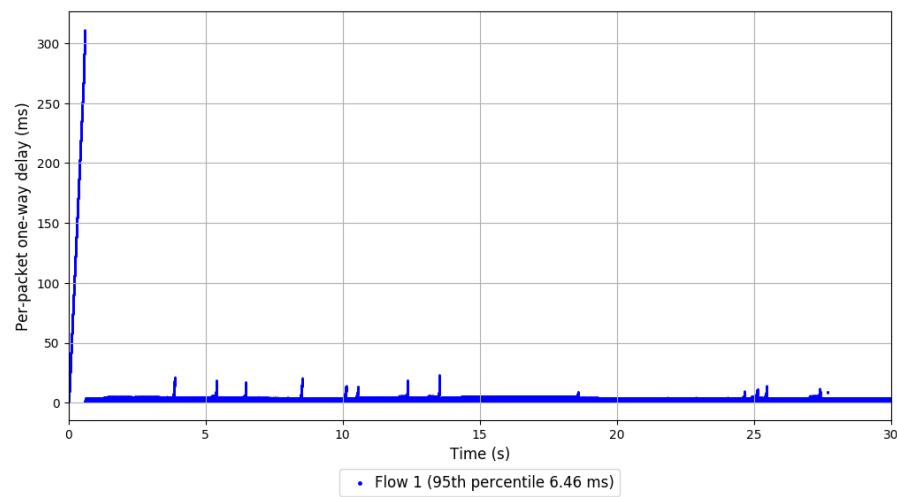
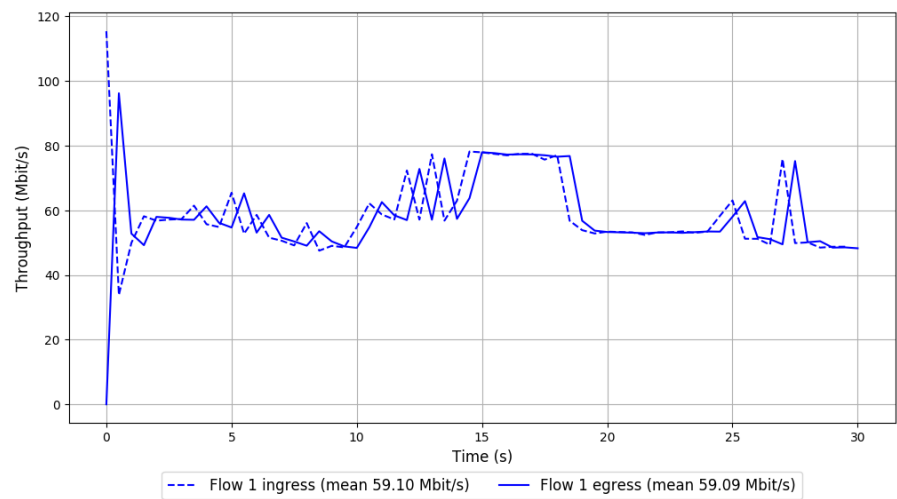
-- Flow 1:

Average throughput: 59.09 Mbit/s

95th percentile per-packet one-way delay: 6.457 ms

Loss rate: 0.03%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

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

End at: 2019-10-03 09:04:06

Local clock offset: -6.147 ms

Remote clock offset: 0.683 ms

Below is generated by plot.py at 2019-10-03 09:25:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.93 Mbit/s

95th percentile per-packet one-way delay: 9.462 ms

Loss rate: 0.02%

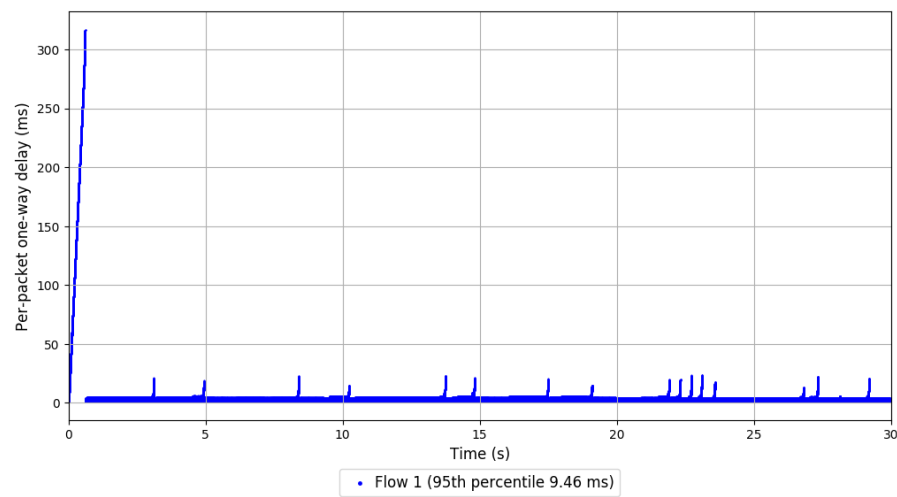
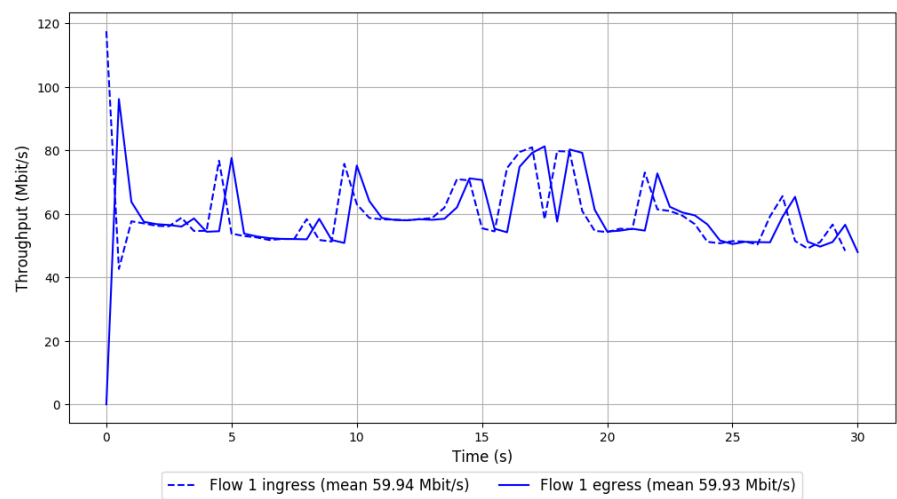
-- Flow 1:

Average throughput: 59.93 Mbit/s

95th percentile per-packet one-way delay: 9.462 ms

Loss rate: 0.02%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-10-03 07:01:41

End at: 2019-10-03 07:02:11

Local clock offset: -5.646 ms

Remote clock offset: 0.208 ms

Below is generated by plot.py at 2019-10-03 09:25:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.88 Mbit/s

95th percentile per-packet one-way delay: 0.898 ms

Loss rate: 0.01%

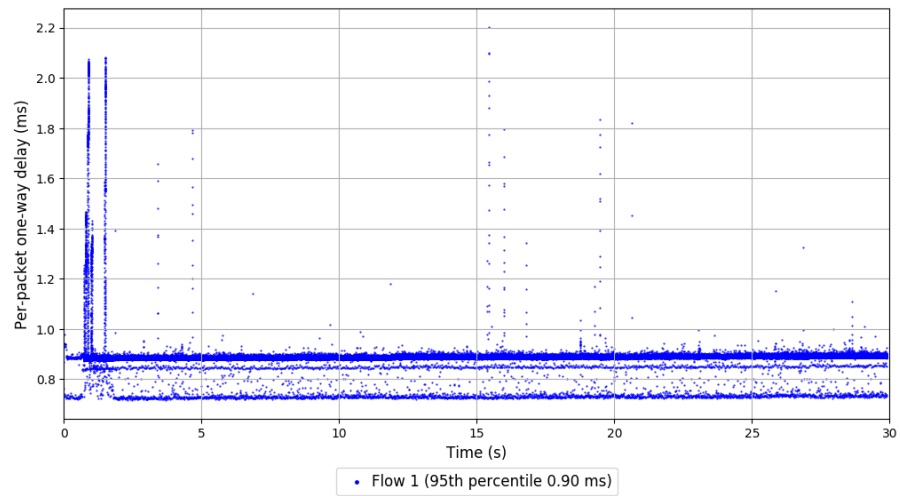
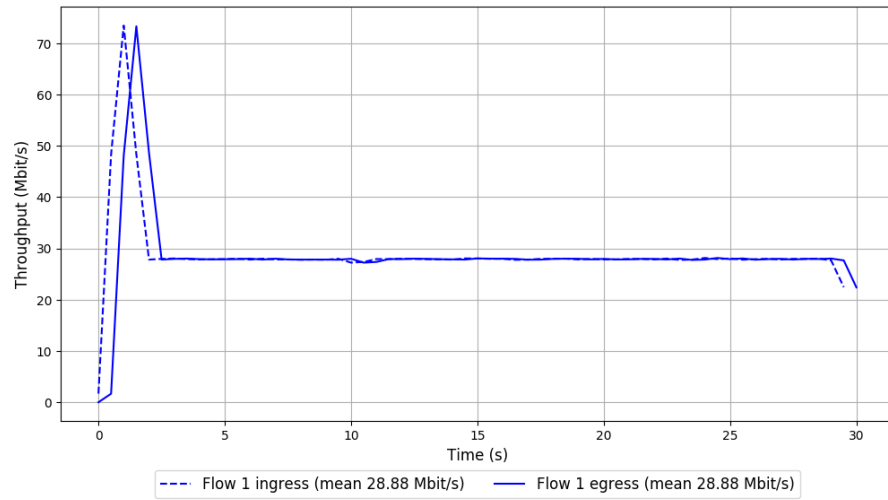
-- Flow 1:

Average throughput: 28.88 Mbit/s

95th percentile per-packet one-way delay: 0.898 ms

Loss rate: 0.01%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-10-03 07:28:30

End at: 2019-10-03 07:29:00

Local clock offset: -6.025 ms

Remote clock offset: 0.489 ms

Below is generated by plot.py at 2019-10-03 09:25:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.04 Mbit/s

95th percentile per-packet one-way delay: 1.026 ms

Loss rate: 0.01%

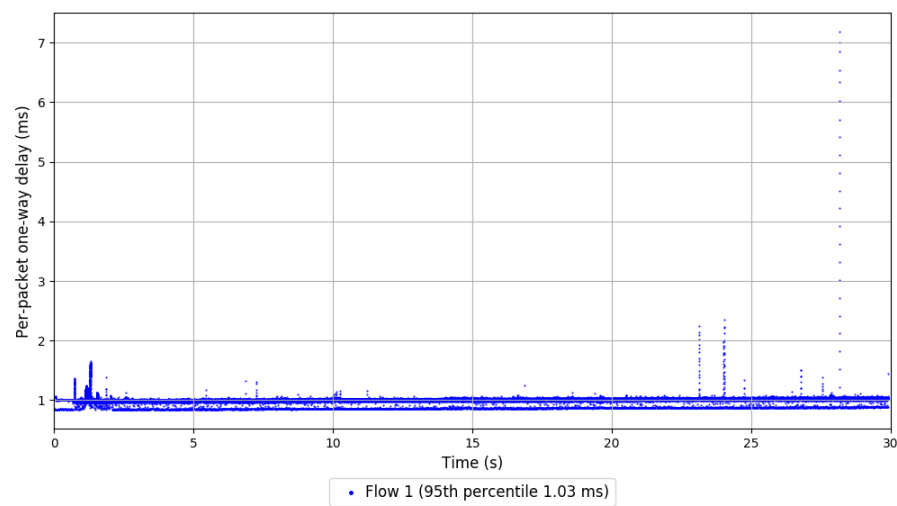
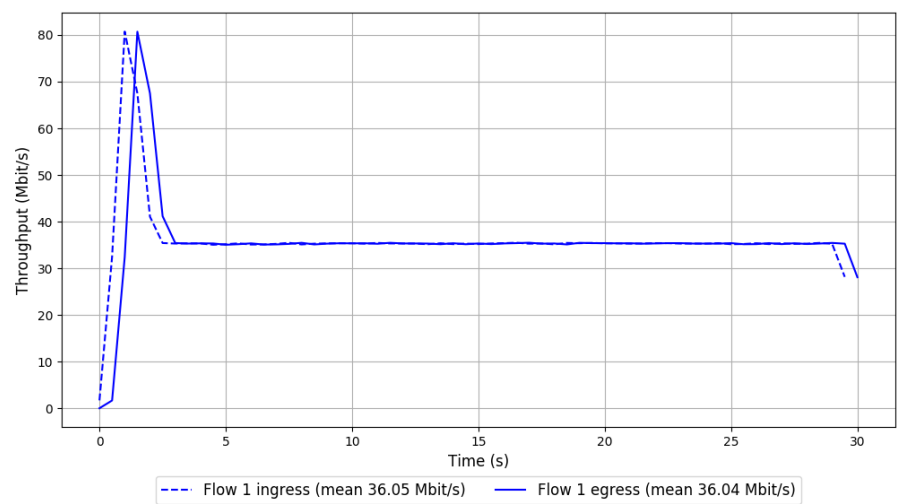
-- Flow 1:

Average throughput: 36.04 Mbit/s

95th percentile per-packet one-way delay: 1.026 ms

Loss rate: 0.01%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

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

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

Local clock offset: -6.857 ms

Remote clock offset: 0.676 ms

Below is generated by plot.py at 2019-10-03 09:25:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.93 Mbit/s

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

Loss rate: 0.00%

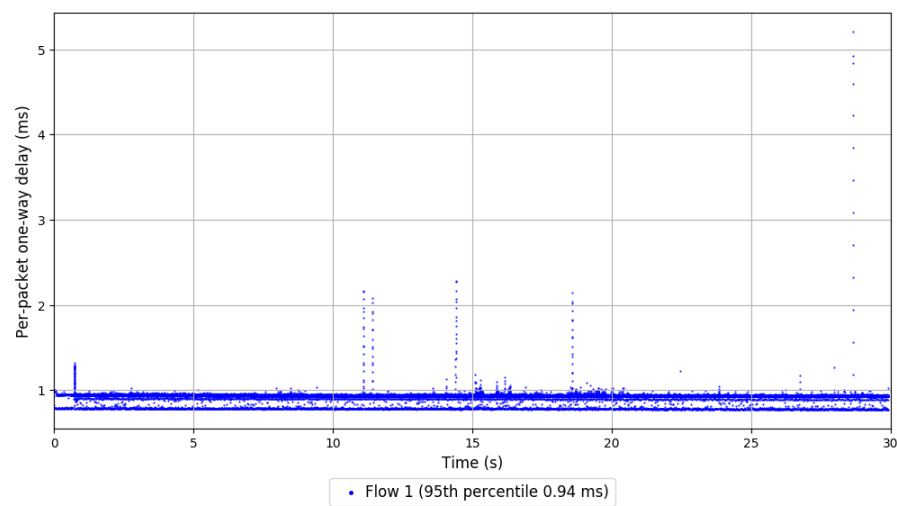
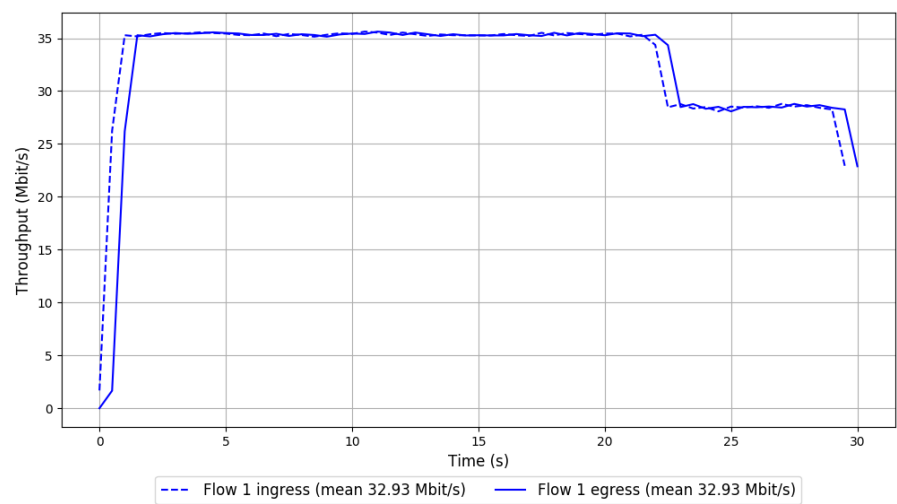
-- Flow 1:

Average throughput: 32.93 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-10-03 08:22:09

End at: 2019-10-03 08:22:39

Local clock offset: -6.587 ms

Remote clock offset: 0.888 ms

Below is generated by plot.py at 2019-10-03 09:25:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.28 Mbit/s

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

Loss rate: 0.00%

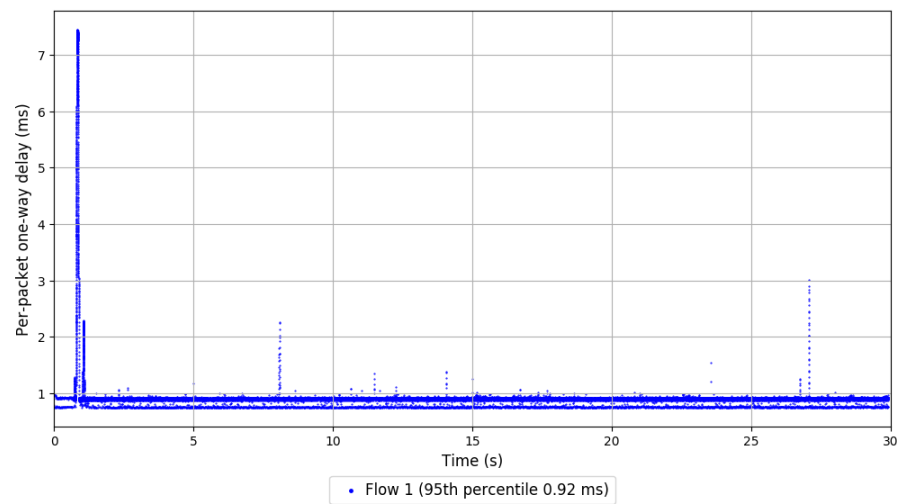
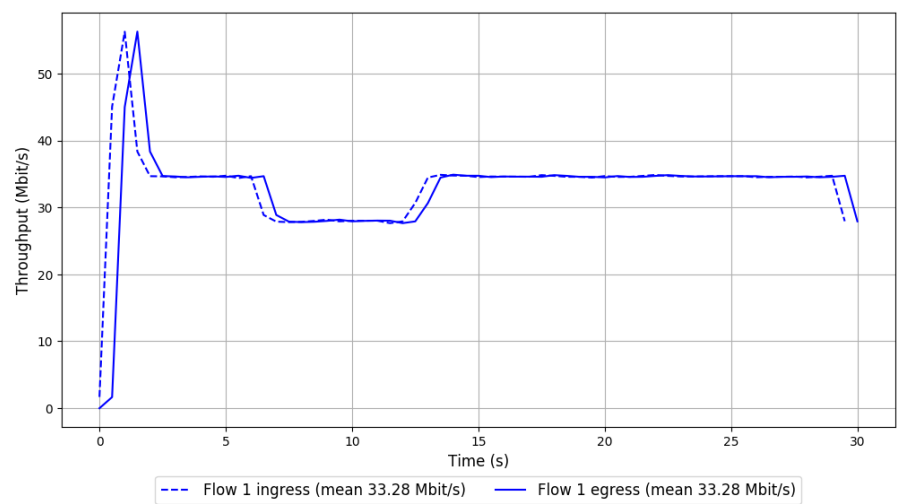
-- Flow 1:

Average throughput: 33.28 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-10-03 08:49:03

End at: 2019-10-03 08:49:33

Local clock offset: -5.325 ms

Remote clock offset: 0.866 ms

Below is generated by plot.py at 2019-10-03 09:25:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.90 Mbit/s

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

Loss rate: 0.01%

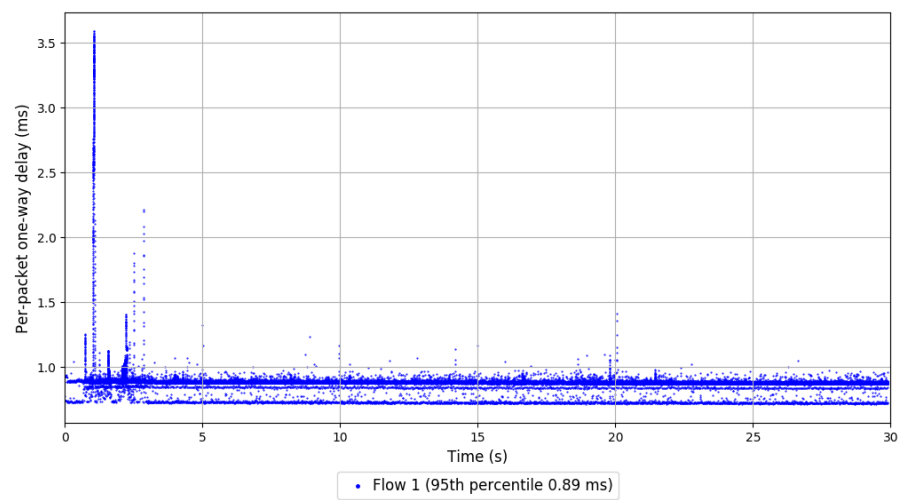
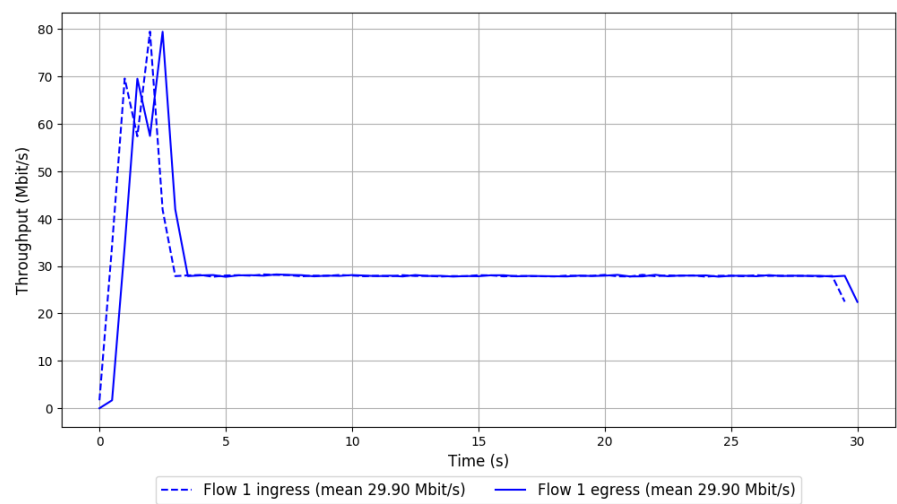
-- Flow 1:

Average throughput: 29.90 Mbit/s

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

Loss rate: 0.01%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

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

End at: 2019-10-03 07:11:14

Local clock offset: -5.634 ms

Remote clock offset: 0.26 ms

Below is generated by plot.py at 2019-10-03 09:25:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 1.435 ms

Loss rate: 0.00%

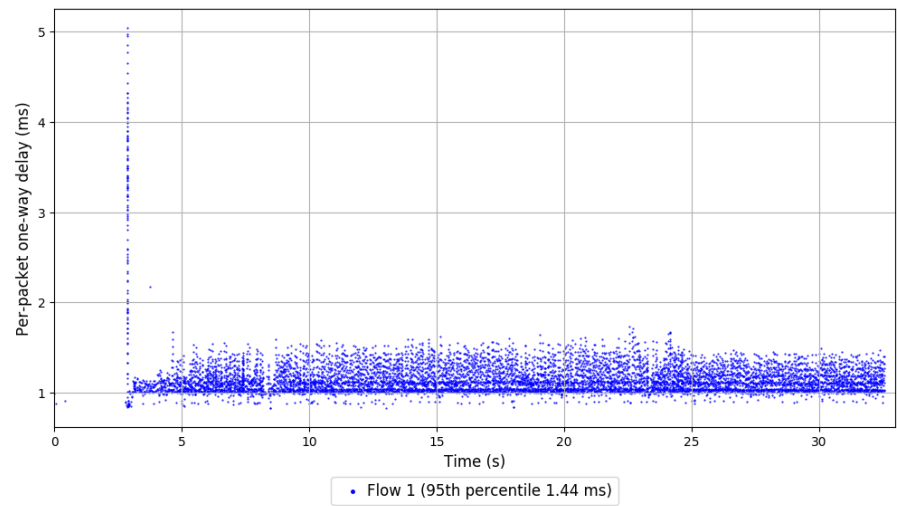
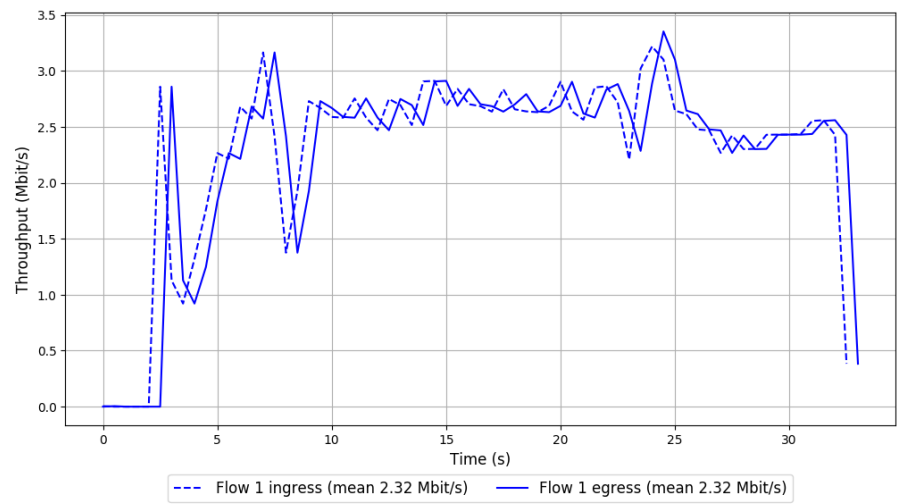
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 1.435 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-10-03 07:37:32

End at: 2019-10-03 07:38:02

Local clock offset: -6.467 ms

Remote clock offset: 0.52 ms

Below is generated by plot.py at 2019-10-03 09:25:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 1.497 ms

Loss rate: 0.00%

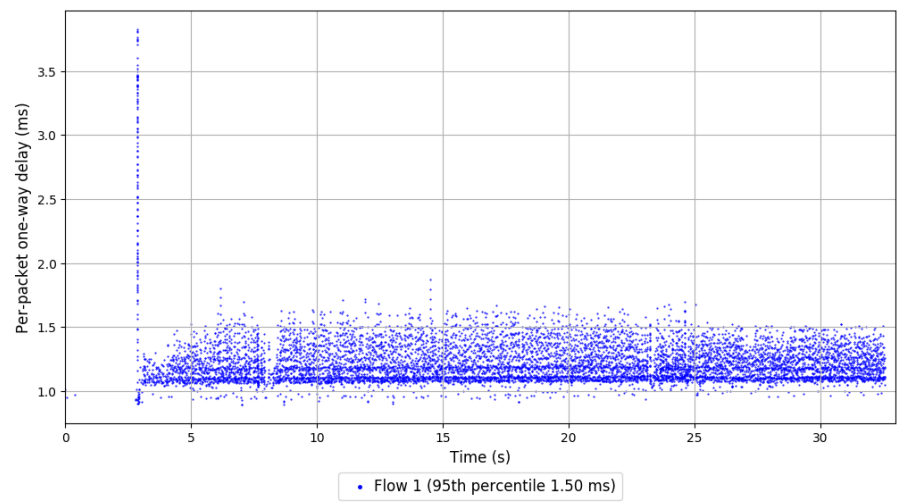
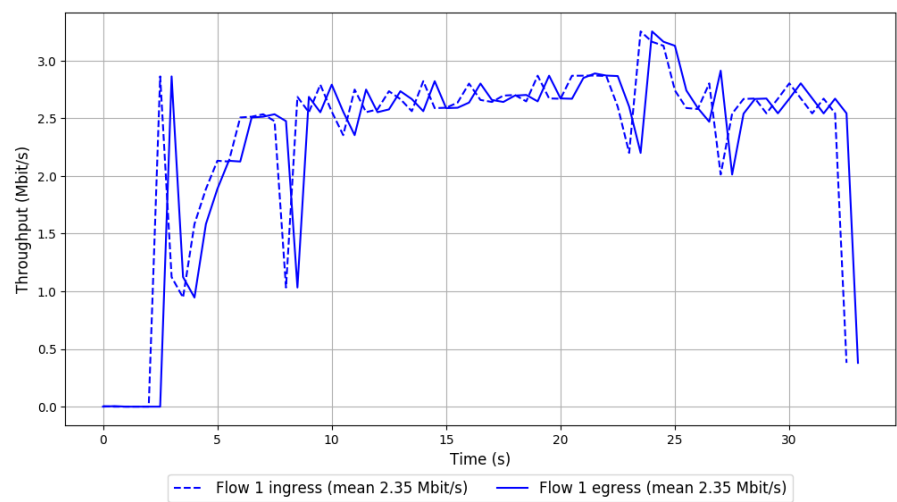
-- Flow 1:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 1.497 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-10-03 08:04:21

End at: 2019-10-03 08:04:51

Local clock offset: -6.655 ms

Remote clock offset: 0.767 ms

Below is generated by plot.py at 2019-10-03 09:25:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.34 Mbit/s

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

Loss rate: 0.03%

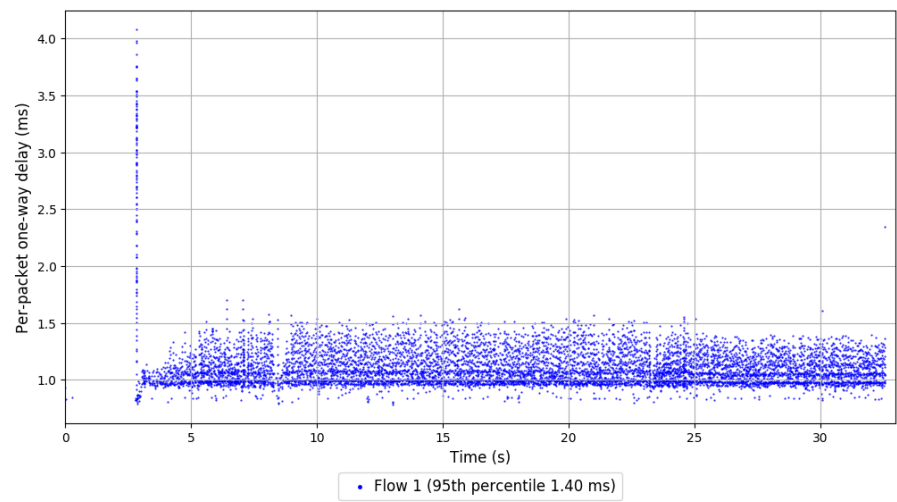
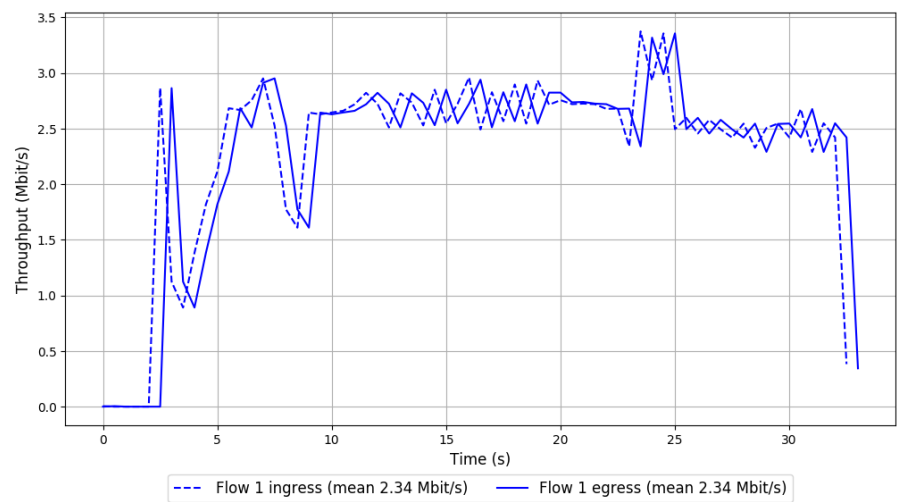
-- Flow 1:

Average throughput: 2.34 Mbit/s

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

Loss rate: 0.03%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-10-03 08:31:13

End at: 2019-10-03 08:31:43

Local clock offset: -5.961 ms

Remote clock offset: 0.831 ms

Below is generated by plot.py at 2019-10-03 09:25:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

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

Loss rate: 0.00%

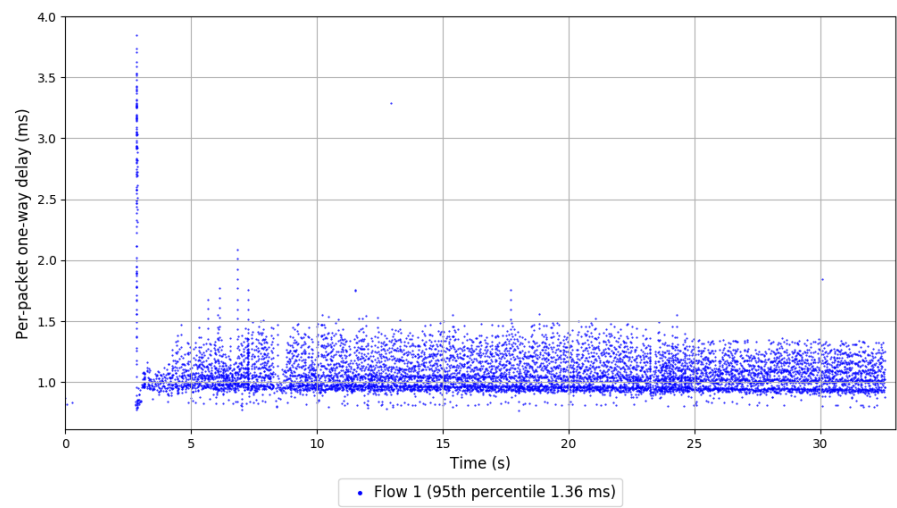
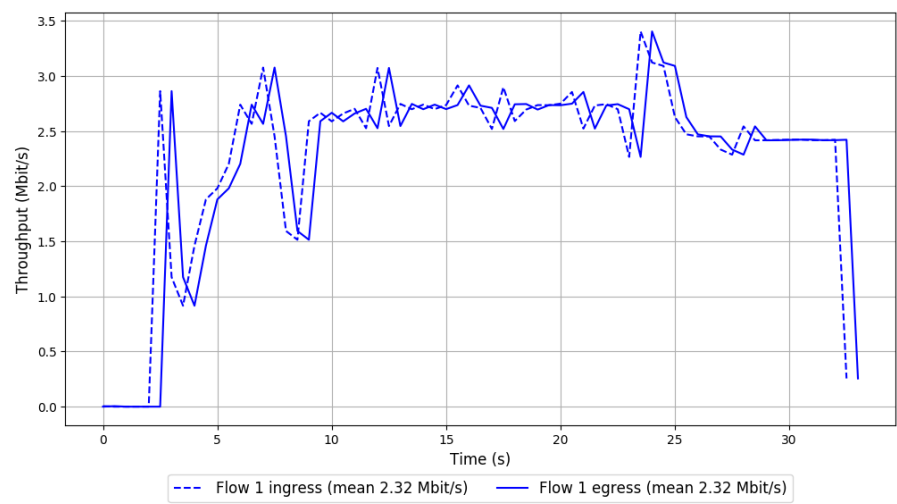
-- Flow 1:

Average throughput: 2.32 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-10-03 08:58:06

End at: 2019-10-03 08:58:36

Local clock offset: -5.647 ms

Remote clock offset: 0.791 ms

Below is generated by plot.py at 2019-10-03 09:25:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 1.445 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 1.445 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

