

Pantheon Report

Generated at 2019-11-24 02:00:30 (UTC).

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

Repeated the test of 24 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

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

System info:

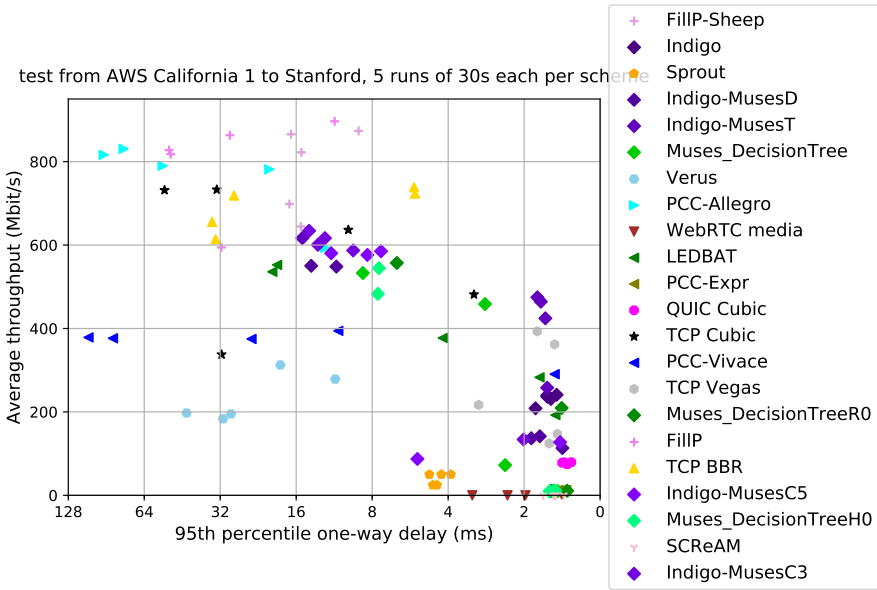
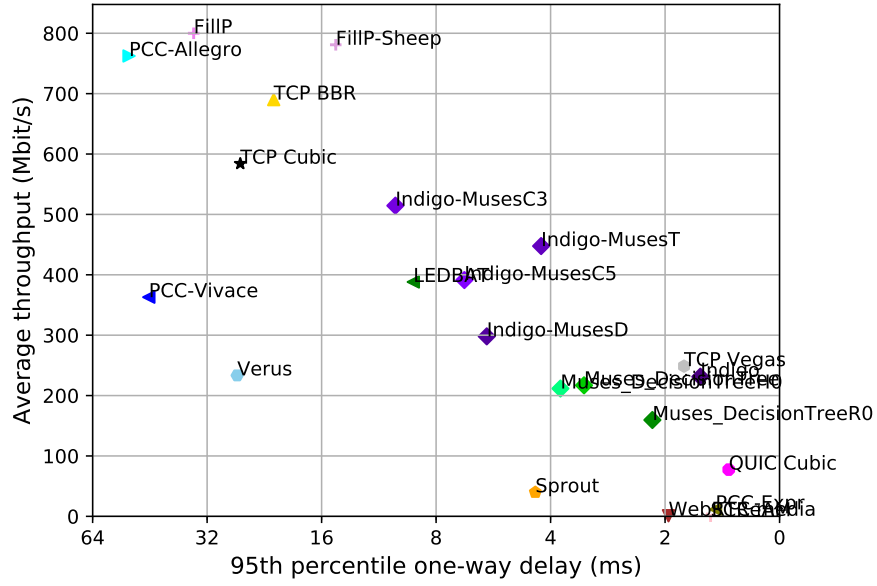
```
Linux 4.15.0-1051-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

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

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

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



scheme	# runs	mean avg tput (Mbit/s)	mean 95th-%ile delay (ms)	mean loss rate (%)
		flow 1	flow 1	flow 1
TCP BBR	5	690.13	21.38	0.09
Copa	0	N/A	N/A	N/A
TCP Cubic	5	584.02	26.18	0.03
FillP	5	799.96	34.71	5.89
FillP-Sheep	5	780.91	14.69	3.25
Indigo	5	231.29	1.38	0.00
Indigo-MusesC3	5	514.50	10.24	0.05
Indigo-MusesC5	5	391.29	6.74	0.03
Indigo-MusesD	5	298.06	5.89	0.00
Indigo-MusesT	5	447.60	4.24	0.03
LEDBAT	5	388.13	9.18	0.02
Muses_DecisionTree	5	216.96	3.27	0.01
Muses_DecisionTreeH0	5	211.67	3.77	0.01
Muses_DecisionTreeR0	5	159.54	2.16	0.00
PCC-Allegro	5	762.39	51.34	0.95
PCC-Expr	5	11.60	1.12	39.47
QUIC Cubic	5	77.37	0.89	0.00
SCReAM	5	0.22	1.21	0.00
Sprout	5	39.88	4.39	0.01
TaoVA-100x	0	N/A	N/A	N/A
TCP Vegas	5	248.69	1.67	0.05
Verus	5	233.41	26.68	10.96
PCC-Vivace	5	362.96	45.55	0.07
WebRTC media	5	0.97	1.94	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-11-23 22:44:45

End at: 2019-11-23 22:45:15

Local clock offset: 4.515 ms

Remote clock offset: 4.364 ms

Below is generated by plot.py at 2019-11-24 01:12:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 613.93 Mbit/s

95th percentile per-packet one-way delay: 33.367 ms

Loss rate: 0.11%

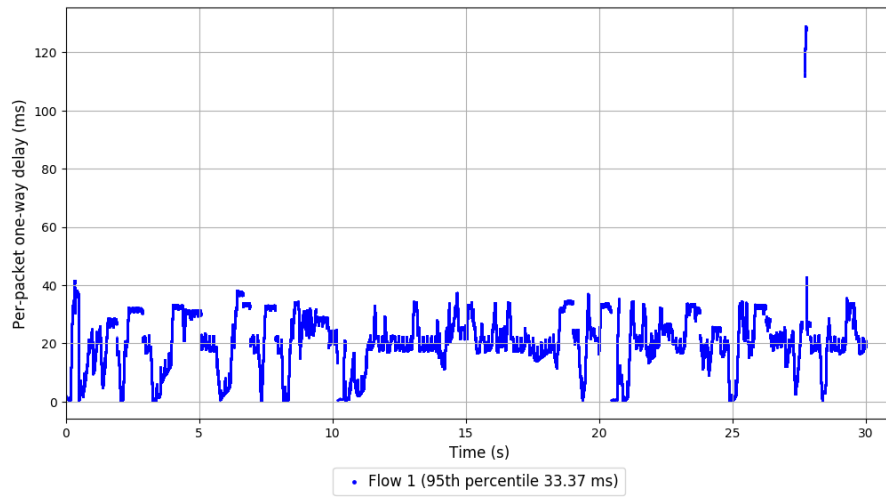
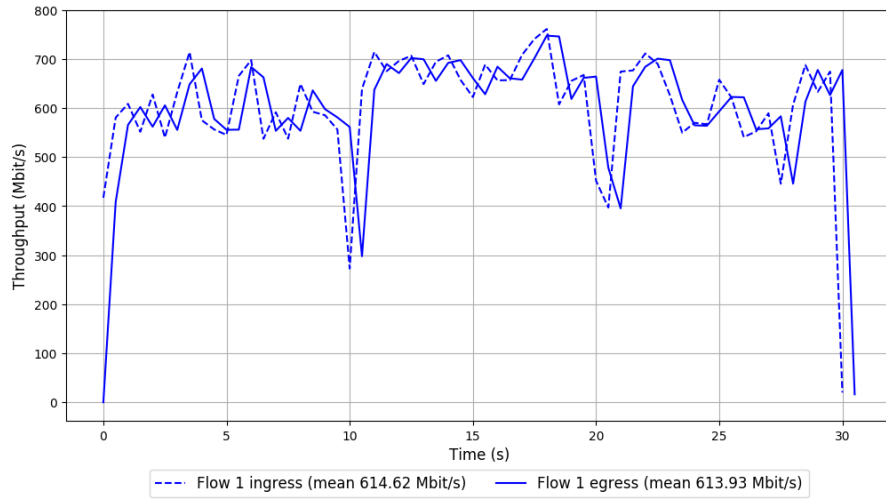
-- Flow 1:

Average throughput: 613.93 Mbit/s

95th percentile per-packet one-way delay: 33.367 ms

Loss rate: 0.11%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-11-23 23:18:00

End at: 2019-11-23 23:18:30

Local clock offset: 4.097 ms

Remote clock offset: 3.952 ms

Below is generated by plot.py at 2019-11-24 01:12:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 655.56 Mbit/s

95th percentile per-packet one-way delay: 34.446 ms

Loss rate: 0.21%

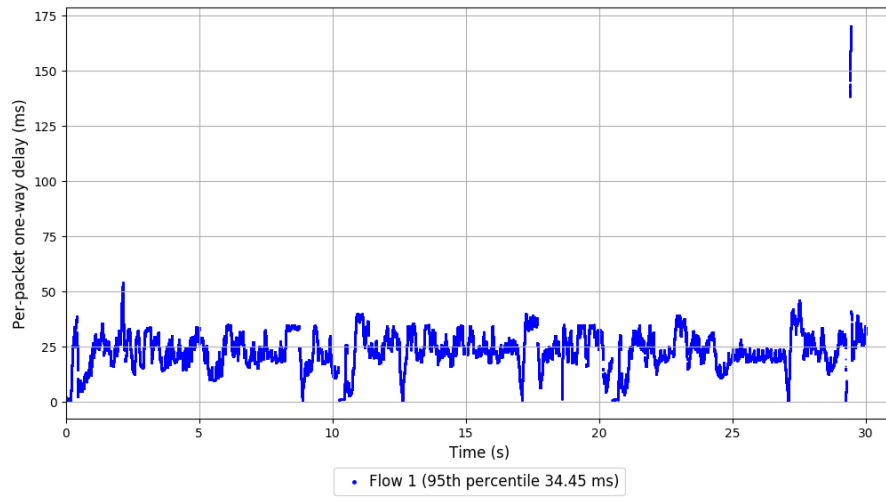
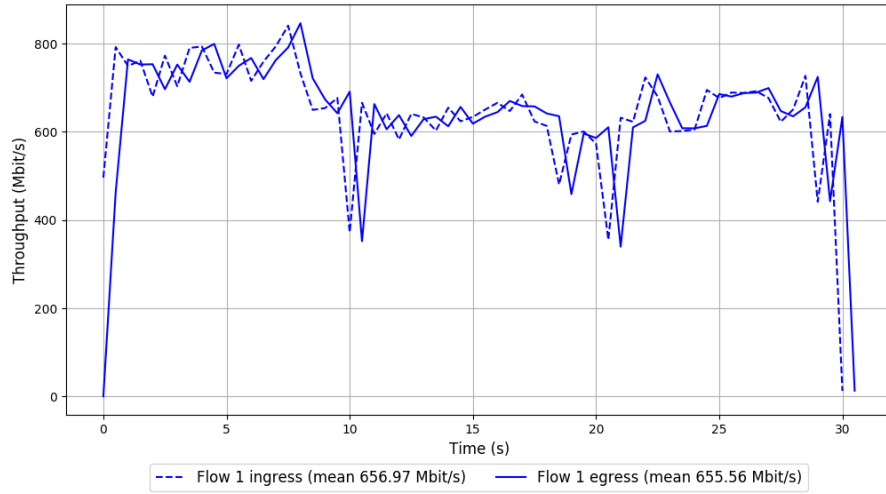
-- Flow 1:

Average throughput: 655.56 Mbit/s

95th percentile per-packet one-way delay: 34.446 ms

Loss rate: 0.21%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-11-23 23:51:25

End at: 2019-11-23 23:51:55

Local clock offset: 3.579 ms

Remote clock offset: -1.399 ms

Below is generated by plot.py at 2019-11-24 01:13:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 723.54 Mbit/s

95th percentile per-packet one-way delay: 5.411 ms

Loss rate: 0.02%

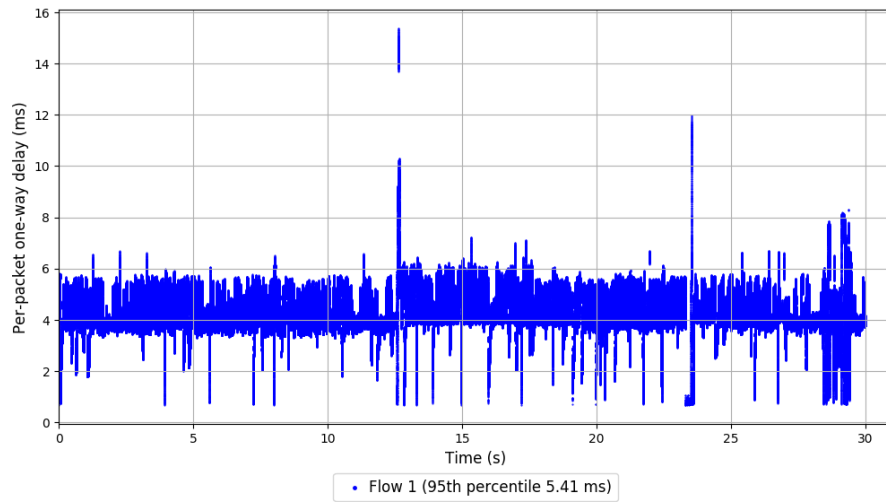
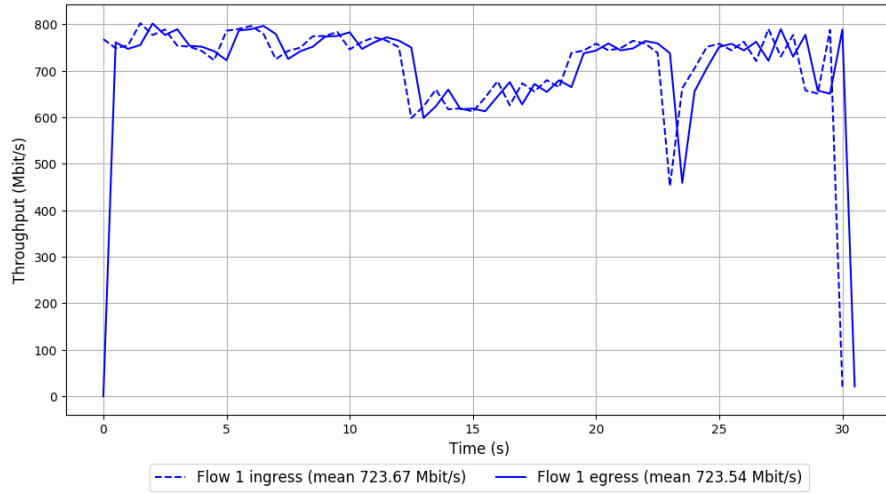
-- Flow 1:

Average throughput: 723.54 Mbit/s

95th percentile per-packet one-way delay: 5.411 ms

Loss rate: 0.02%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-11-24 00:23:43

End at: 2019-11-24 00:24:13

Local clock offset: 3.464 ms

Remote clock offset: -4.927 ms

Below is generated by plot.py at 2019-11-24 01:13:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 718.82 Mbit/s

95th percentile per-packet one-way delay: 28.230 ms

Loss rate: 0.13%

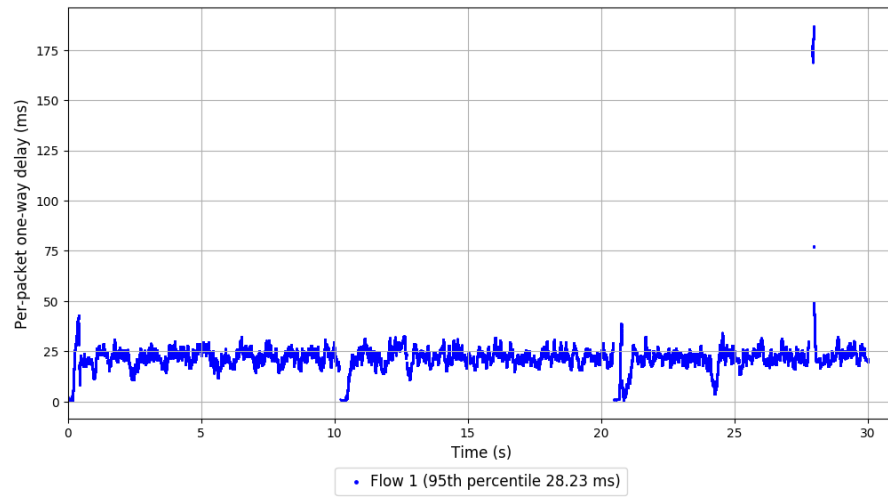
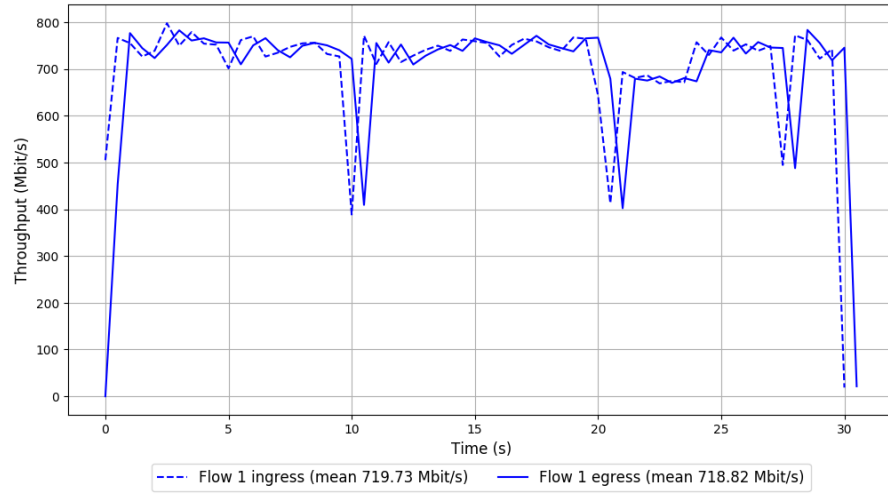
-- Flow 1:

Average throughput: 718.82 Mbit/s

95th percentile per-packet one-way delay: 28.230 ms

Loss rate: 0.13%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-11-24 00:56:55

End at: 2019-11-24 00:57:25

Local clock offset: 3.097 ms

Remote clock offset: 0.124 ms

Below is generated by plot.py at 2019-11-24 01:13:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 738.80 Mbit/s

95th percentile per-packet one-way delay: 5.462 ms

Loss rate: 0.00%

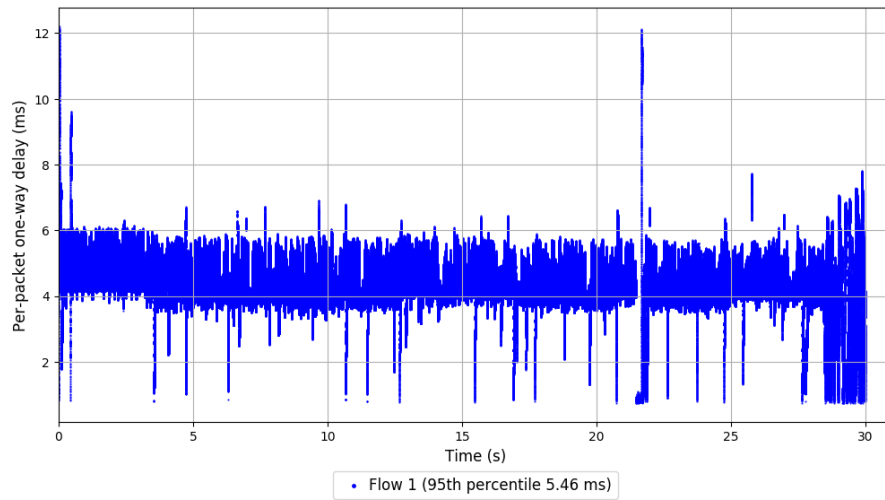
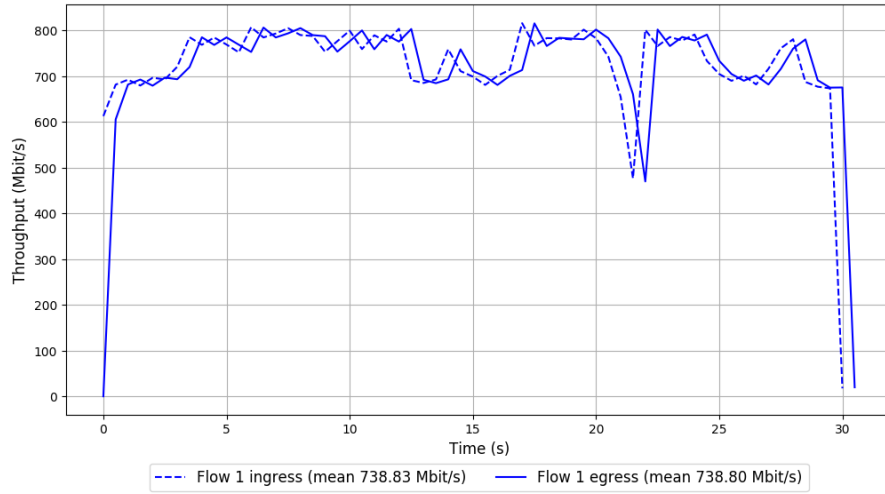
-- Flow 1:

Average throughput: 738.80 Mbit/s

95th percentile per-packet one-way delay: 5.462 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

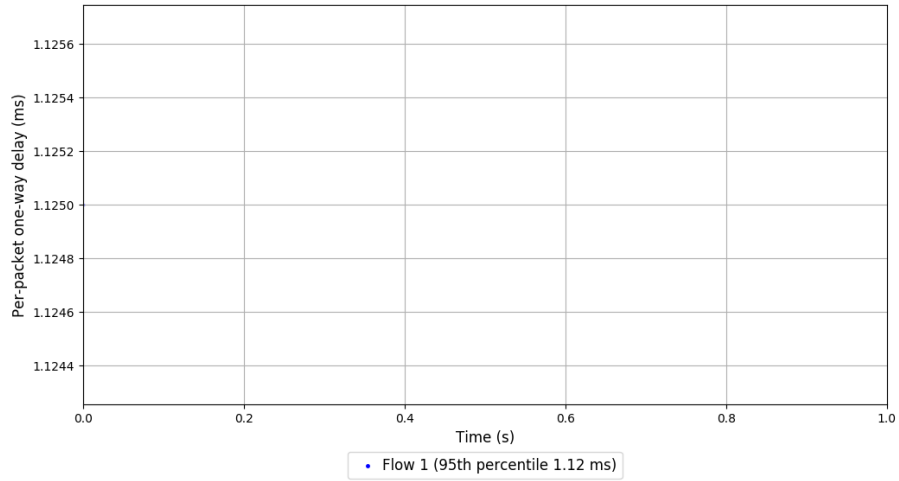
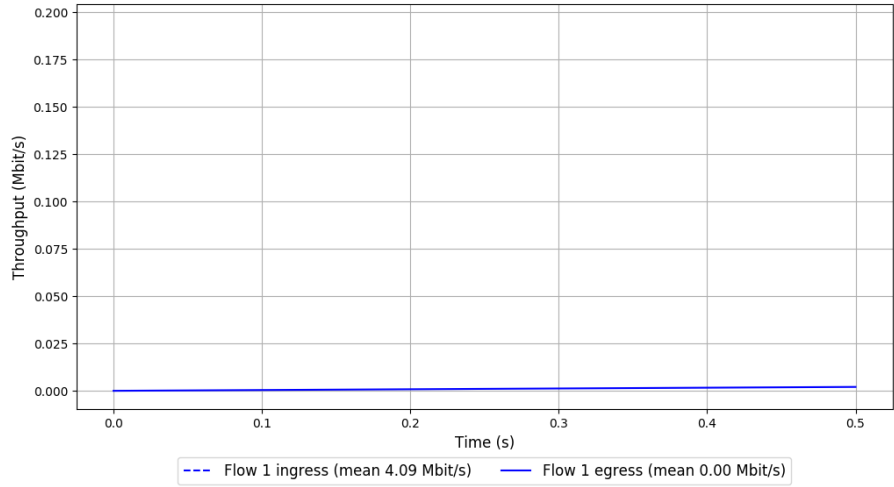
Start at: 2019-11-23 22:17:06

End at: 2019-11-23 22:17:36

Local clock offset: 3.248 ms

Remote clock offset: 0.961 ms

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

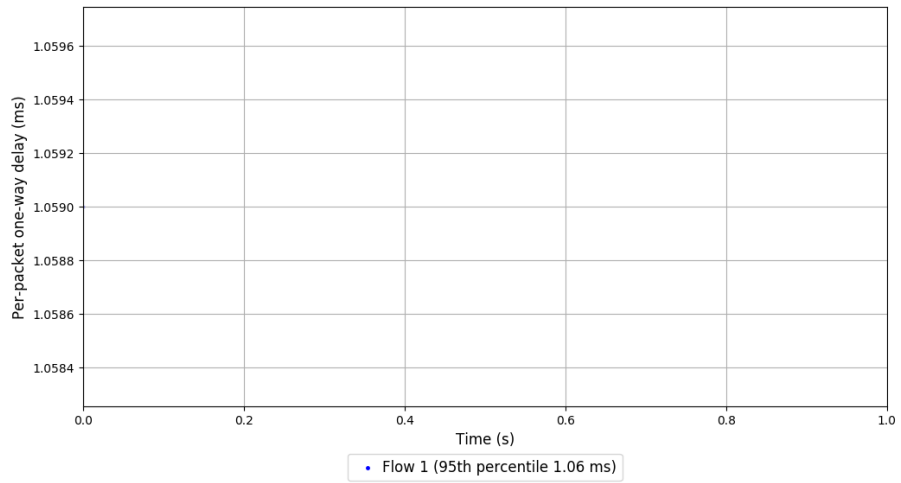
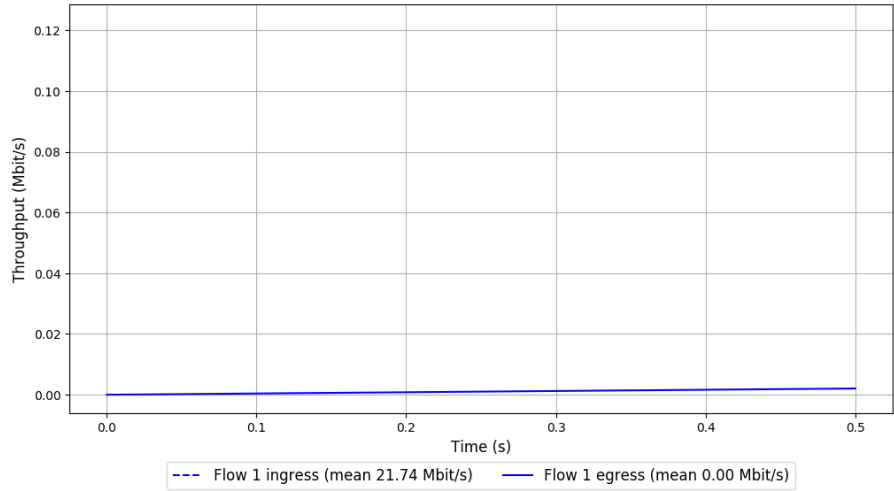
Start at: 2019-11-23 22:50:30

End at: 2019-11-23 22:51:00

Local clock offset: 4.181 ms

Remote clock offset: 4.153 ms

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

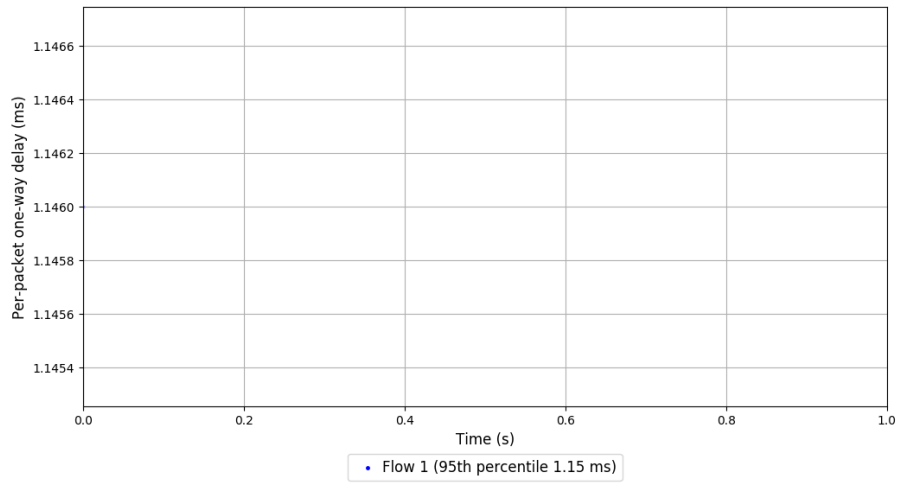
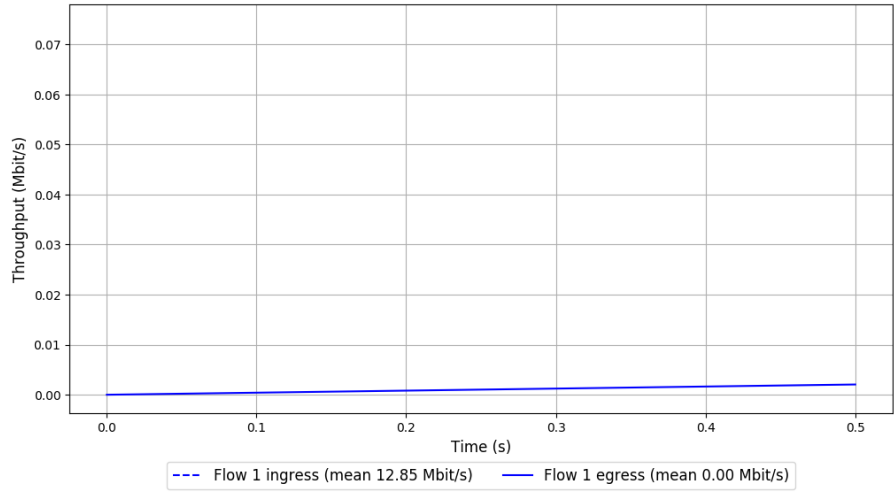
Start at: 2019-11-23 23:23:31

End at: 2019-11-23 23:24:01

Local clock offset: 4.076 ms

Remote clock offset: 3.303 ms

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

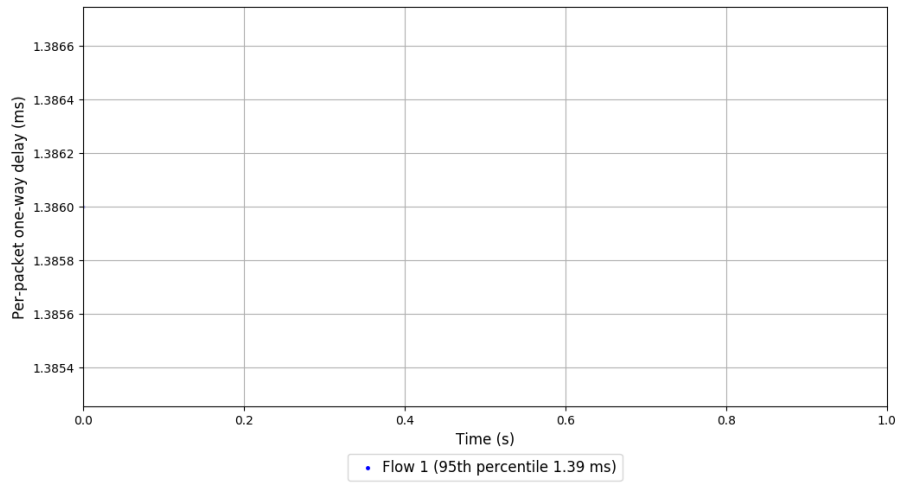
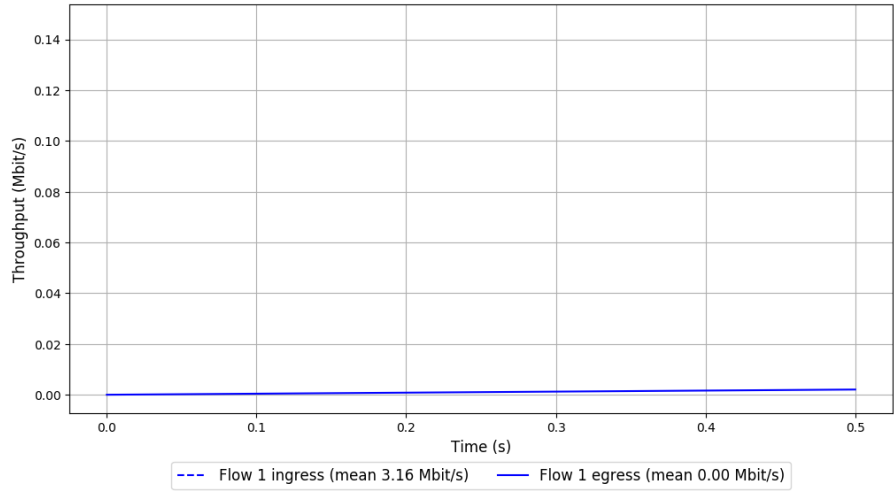
Start at: 2019-11-23 23:57:02

End at: 2019-11-23 23:57:32

Local clock offset: 3.481 ms

Remote clock offset: -1.828 ms

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

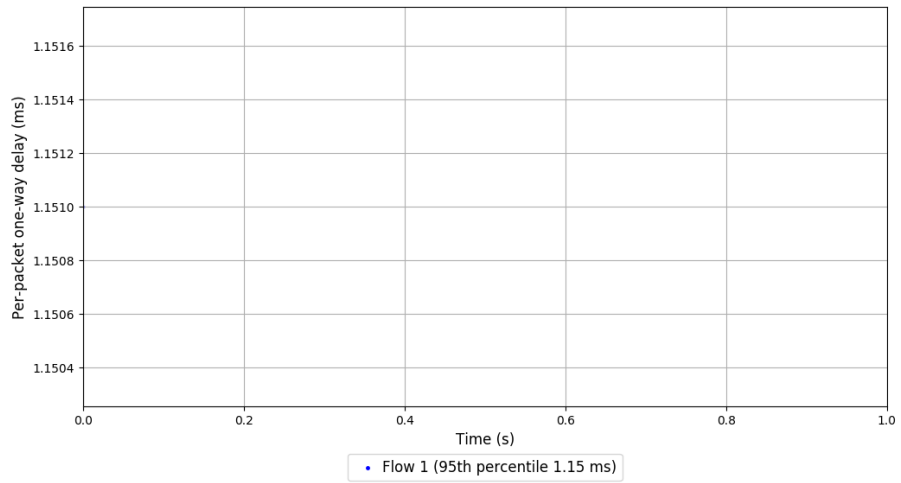
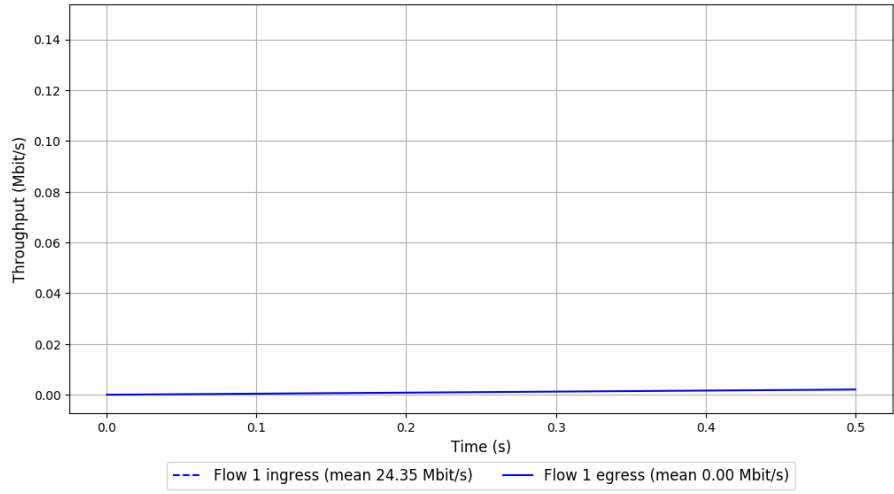
Start at: 2019-11-24 00:29:22

End at: 2019-11-24 00:29:52

Local clock offset: 3.489 ms

Remote clock offset: -5.326 ms

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-11-23 22:23:30

End at: 2019-11-23 22:24:00

Local clock offset: 3.888 ms

Remote clock offset: 2.247 ms

Below is generated by plot.py at 2019-11-24 01:13:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 731.66 Mbit/s

95th percentile per-packet one-way delay: 53.172 ms

Loss rate: 0.05%

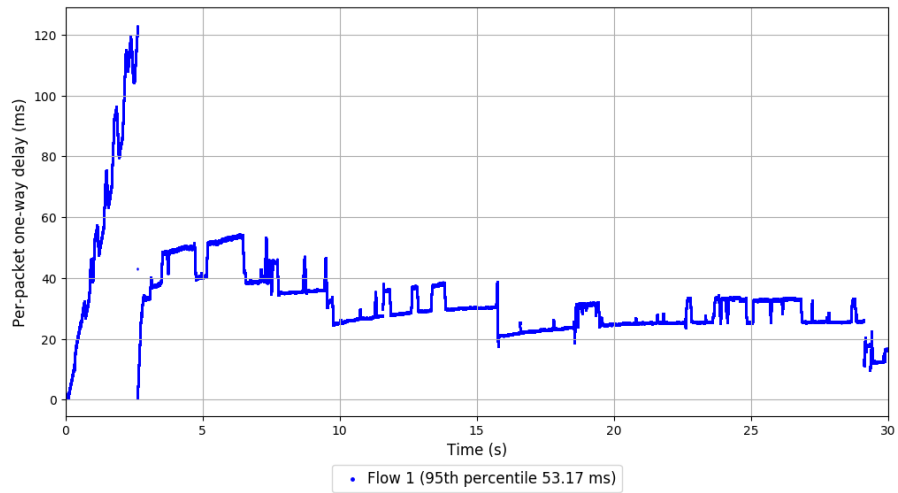
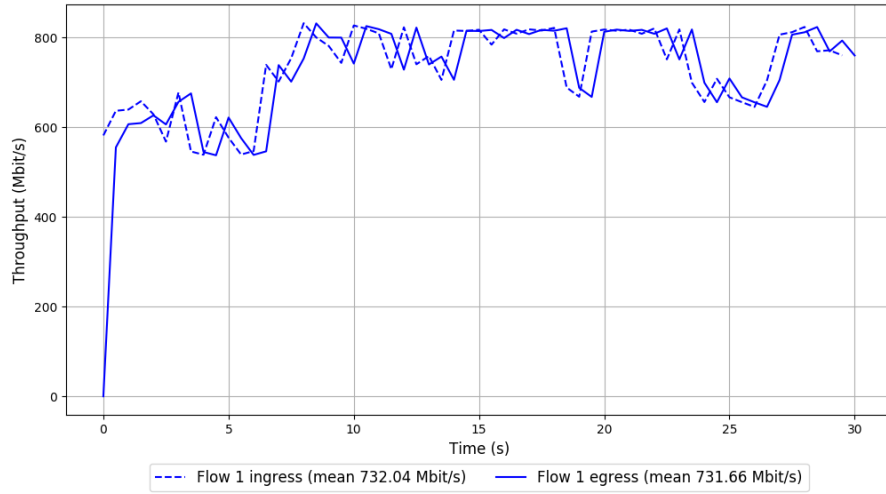
-- Flow 1:

Average throughput: 731.66 Mbit/s

95th percentile per-packet one-way delay: 53.172 ms

Loss rate: 0.05%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-11-23 22:57:03

End at: 2019-11-23 22:57:33

Local clock offset: 4.107 ms

Remote clock offset: 3.703 ms

Below is generated by plot.py at 2019-11-24 01:13:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 337.51 Mbit/s

95th percentile per-packet one-way delay: 31.604 ms

Loss rate: 0.00%

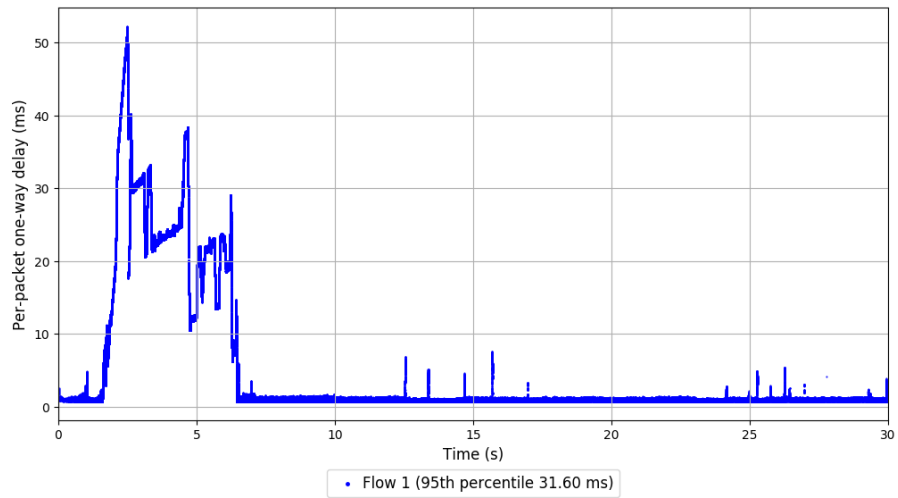
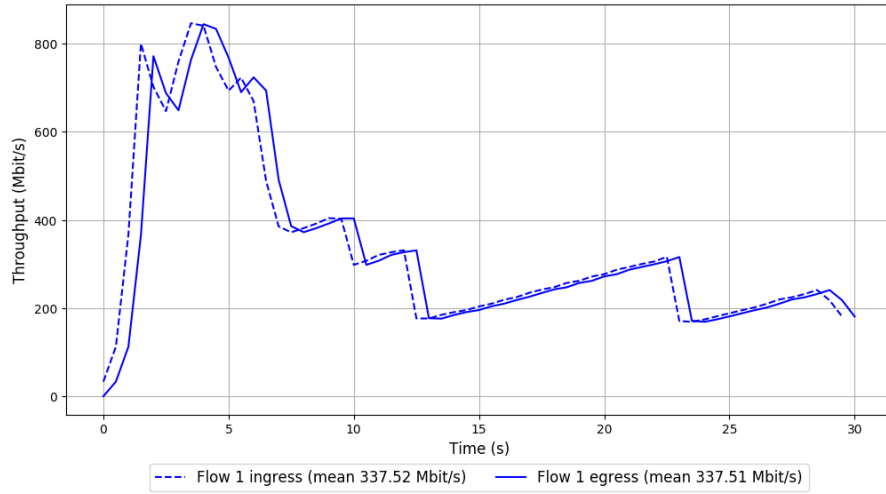
-- Flow 1:

Average throughput: 337.51 Mbit/s

95th percentile per-packet one-way delay: 31.604 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2019-11-23 23:30:04

End at: 2019-11-23 23:30:34

Local clock offset: 4.197 ms

Remote clock offset: 1.23 ms

Below is generated by plot.py at 2019-11-24 01:13:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 732.94 Mbit/s

95th percentile per-packet one-way delay: 33.022 ms

Loss rate: 0.07%

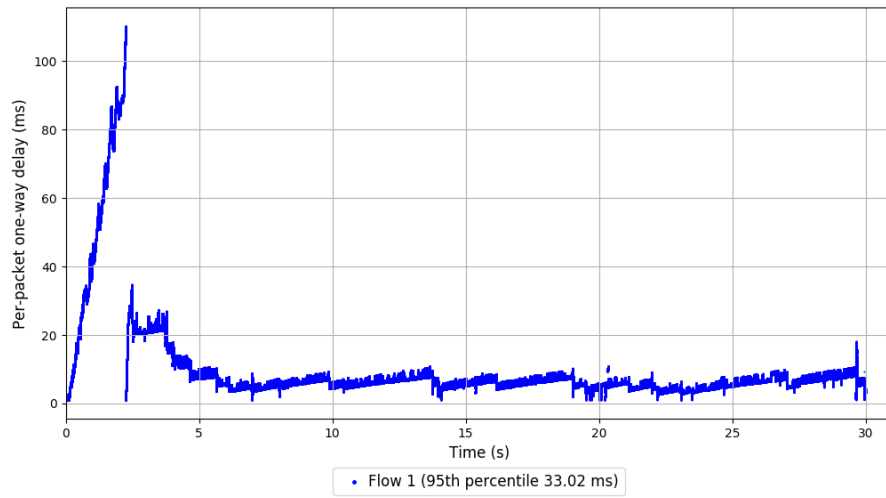
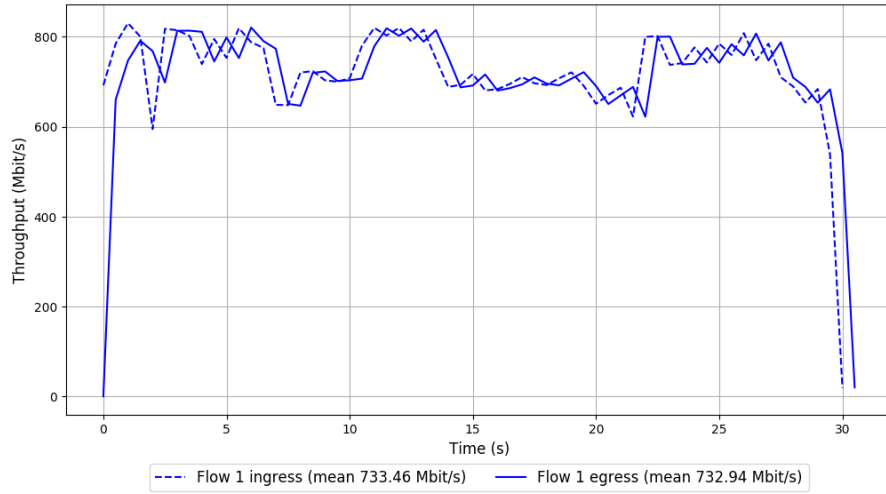
-- Flow 1:

Average throughput: 732.94 Mbit/s

95th percentile per-packet one-way delay: 33.022 ms

Loss rate: 0.07%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-11-24 00:03:26

End at: 2019-11-24 00:03:56

Local clock offset: 3.471 ms

Remote clock offset: -2.998 ms

Below is generated by plot.py at 2019-11-24 01:14:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 481.50 Mbit/s

95th percentile per-packet one-way delay: 3.161 ms

Loss rate: 0.02%

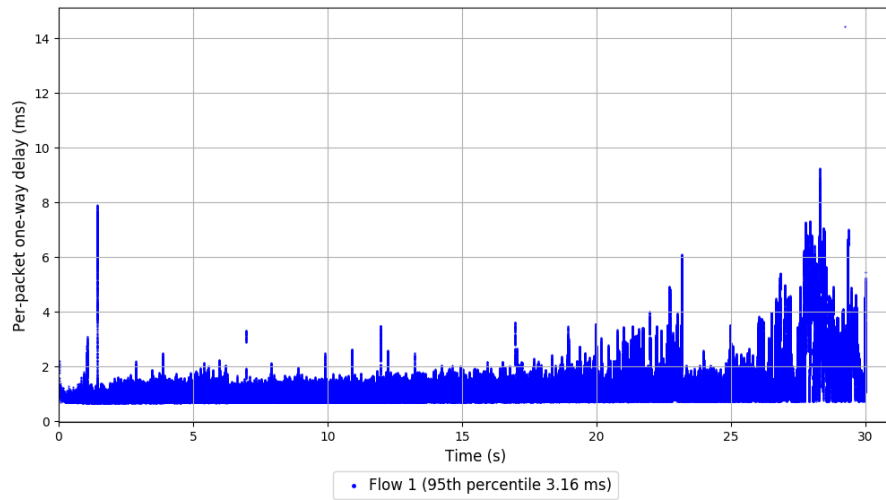
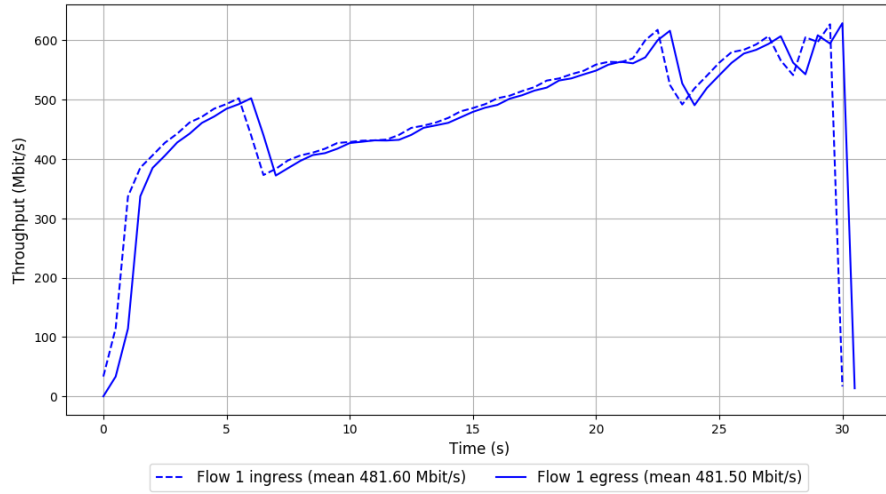
-- Flow 1:

Average throughput: 481.50 Mbit/s

95th percentile per-packet one-way delay: 3.161 ms

Loss rate: 0.02%

Run 4: Report of TCP Cubic — Data Link

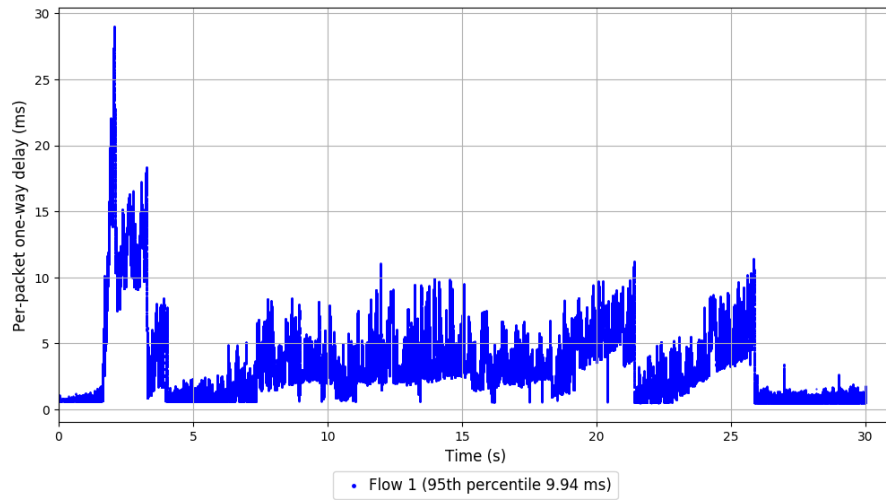
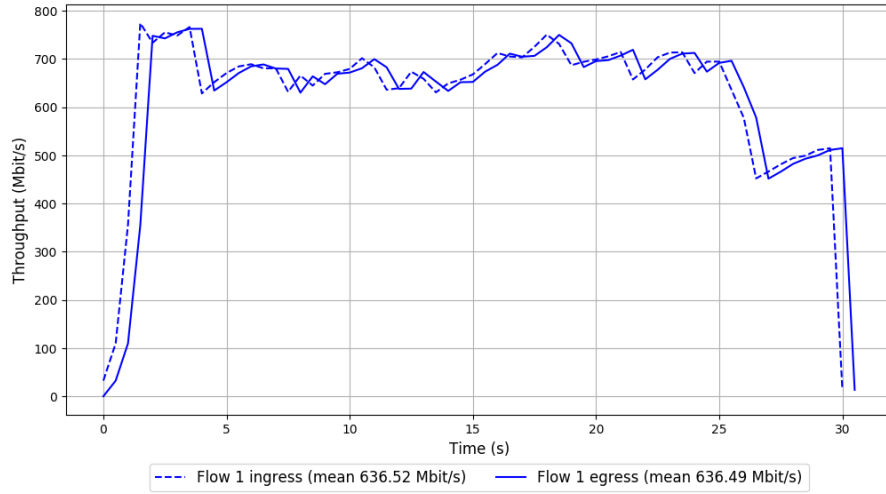


Run 5: Statistics of TCP Cubic

Start at: 2019-11-24 00:35:53
End at: 2019-11-24 00:36:23
Local clock offset: 3.591 ms
Remote clock offset: -2.662 ms

Below is generated by plot.py at 2019-11-24 01:18:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 636.49 Mbit/s
95th percentile per-packet one-way delay: 9.943 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 636.49 Mbit/s
95th percentile per-packet one-way delay: 9.943 ms
Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-11-23 22:19:33

End at: 2019-11-23 22:20:03

Local clock offset: 3.498 ms

Remote clock offset: 1.585 ms

Below is generated by plot.py at 2019-11-24 01:19:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 594.33 Mbit/s

95th percentile per-packet one-way delay: 31.677 ms

Loss rate: 1.40%

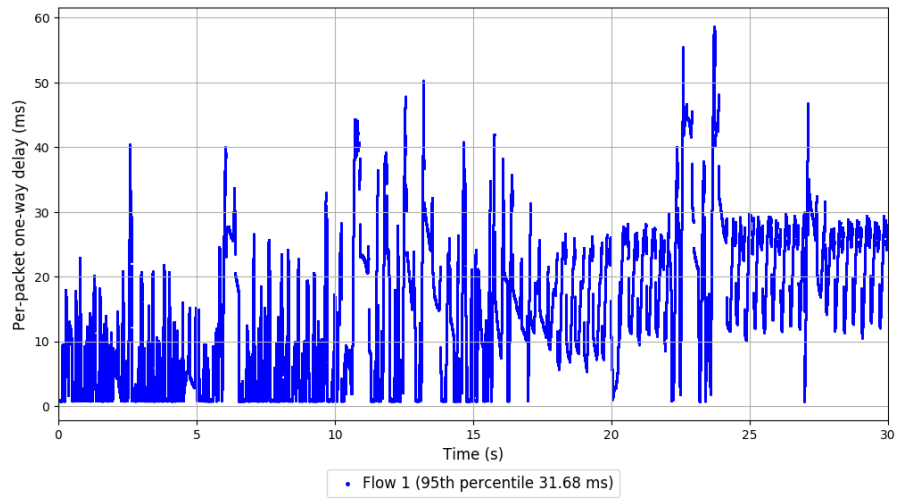
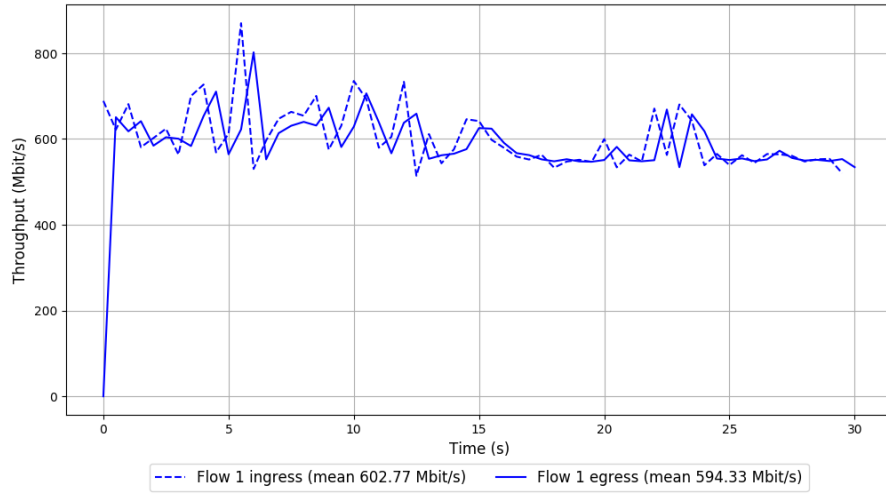
-- Flow 1:

Average throughput: 594.33 Mbit/s

95th percentile per-packet one-way delay: 31.677 ms

Loss rate: 1.40%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-11-23 22:52:56

End at: 2019-11-23 22:53:26

Local clock offset: 4.12 ms

Remote clock offset: 4.034 ms

Below is generated by plot.py at 2019-11-24 01:24:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 896.67 Mbit/s

95th percentile per-packet one-way delay: 11.271 ms

Loss rate: 4.98%

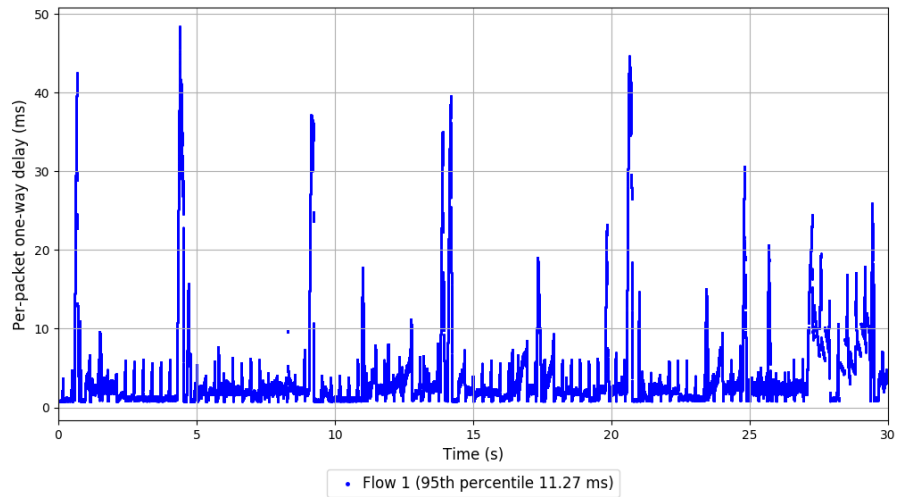
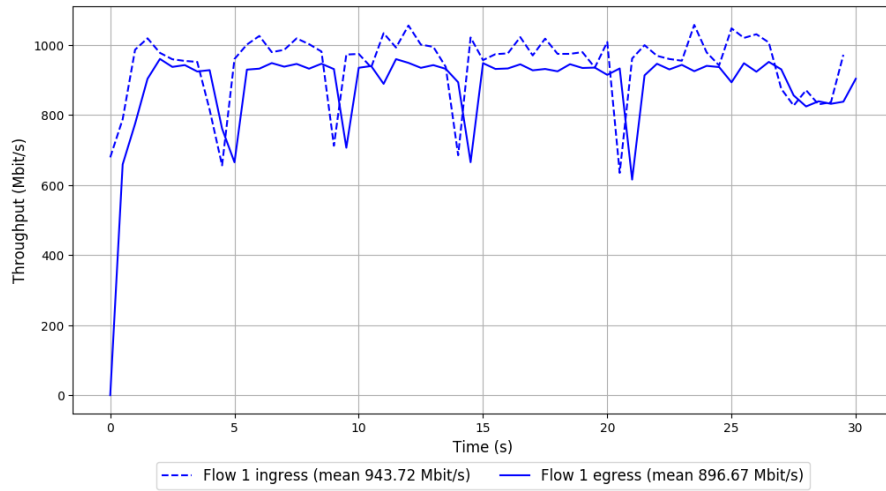
-- Flow 1:

Average throughput: 896.67 Mbit/s

95th percentile per-packet one-way delay: 11.271 ms

Loss rate: 4.98%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-11-23 23:25:57

End at: 2019-11-23 23:26:27

Local clock offset: 4.118 ms

Remote clock offset: 2.313 ms

Below is generated by plot.py at 2019-11-24 01:24:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 863.36 Mbit/s

95th percentile per-packet one-way delay: 29.300 ms

Loss rate: 7.93%

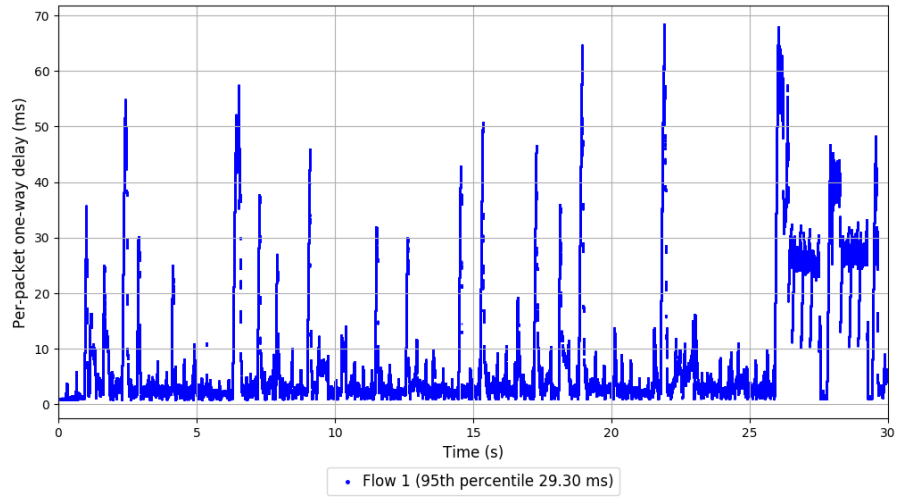
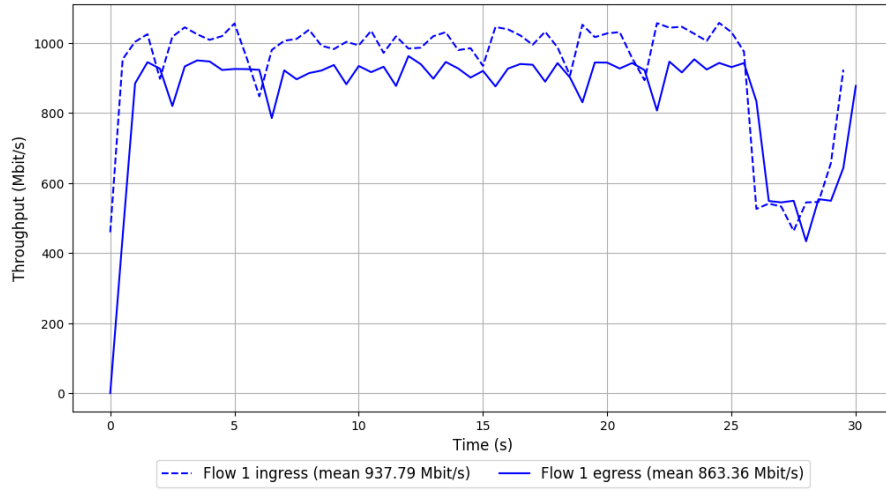
-- Flow 1:

Average throughput: 863.36 Mbit/s

95th percentile per-packet one-way delay: 29.300 ms

Loss rate: 7.93%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-11-23 23:59:28

End at: 2019-11-23 23:59:58

Local clock offset: 3.495 ms

Remote clock offset: -2.261 ms

Below is generated by plot.py at 2019-11-24 01:24:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 827.63 Mbit/s

95th percentile per-packet one-way delay: 51.036 ms

Loss rate: 8.20%

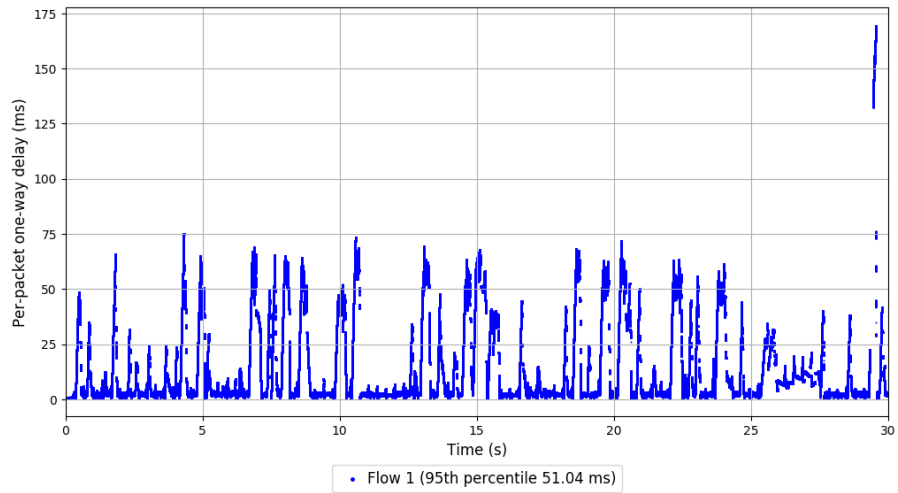
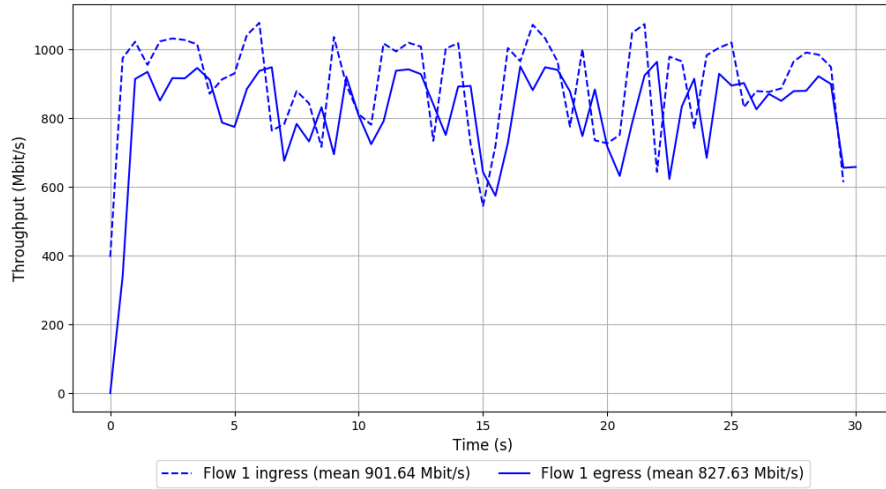
-- Flow 1:

Average throughput: 827.63 Mbit/s

95th percentile per-packet one-way delay: 51.036 ms

Loss rate: 8.20%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-11-24 00:31:48

End at: 2019-11-24 00:32:18

Local clock offset: 3.525 ms

Remote clock offset: -4.424 ms

Below is generated by plot.py at 2019-11-24 01:24:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 817.82 Mbit/s

95th percentile per-packet one-way delay: 50.280 ms

Loss rate: 6.93%

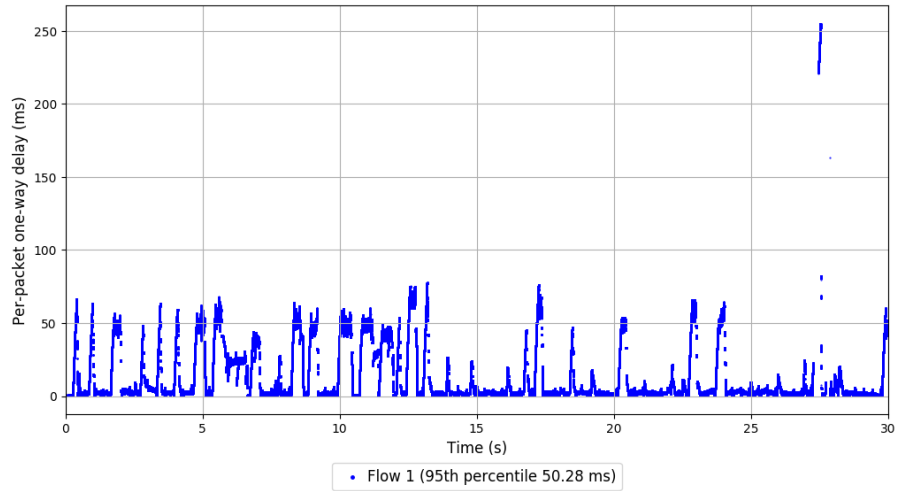
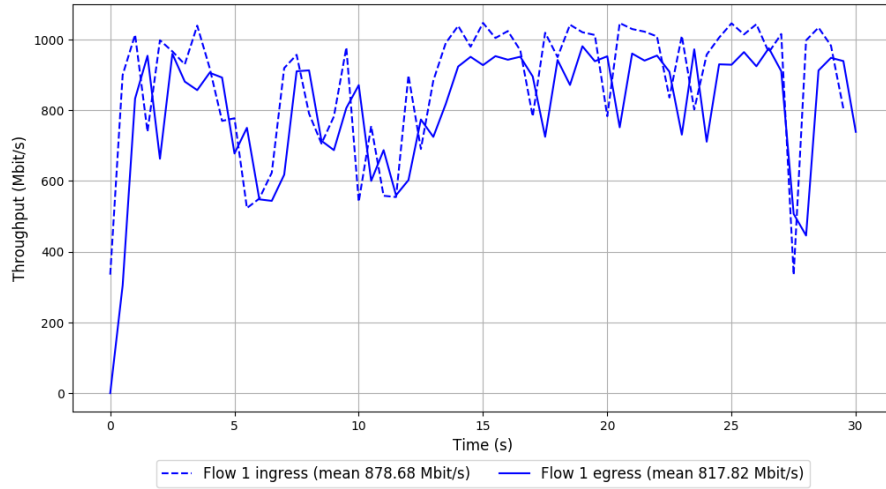
-- Flow 1:

Average throughput: 817.82 Mbit/s

95th percentile per-packet one-way delay: 50.280 ms

Loss rate: 6.93%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-11-23 22:36:12

End at: 2019-11-23 22:36:42

Local clock offset: 5.007 ms

Remote clock offset: 3.777 ms

Below is generated by plot.py at 2019-11-24 01:24:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 873.61 Mbit/s

95th percentile per-packet one-way delay: 9.054 ms

Loss rate: 3.24%

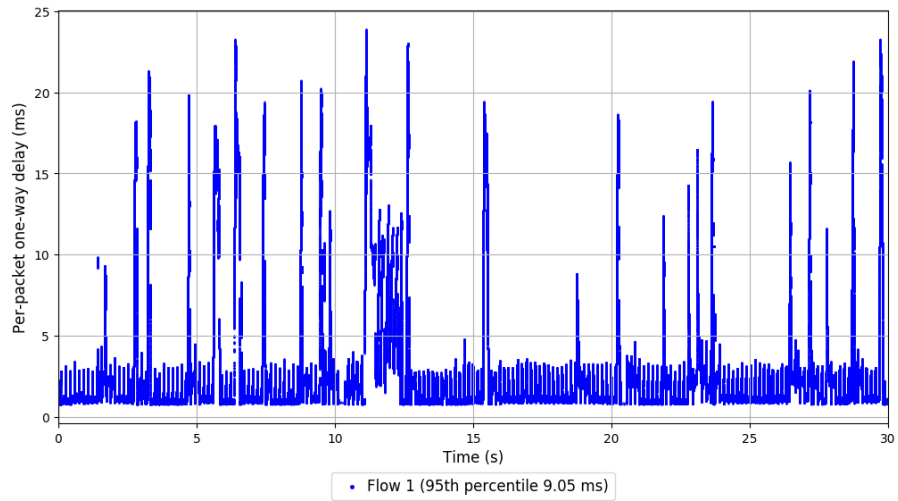
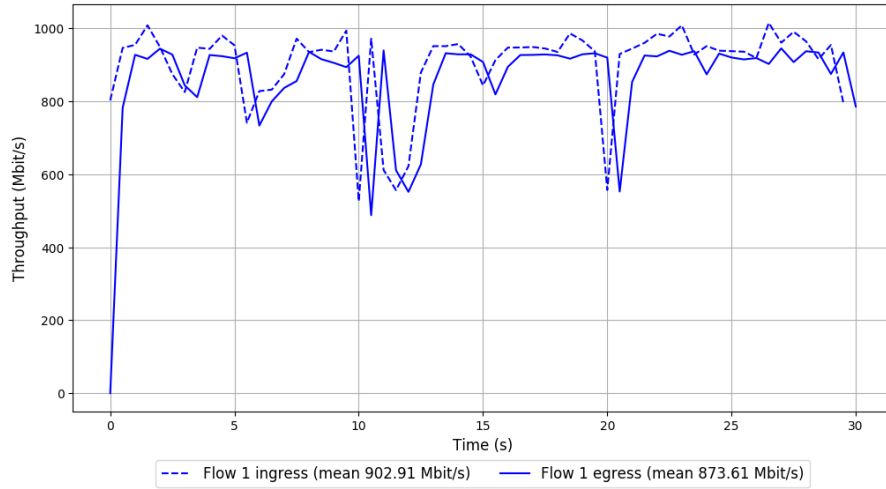
-- Flow 1:

Average throughput: 873.61 Mbit/s

95th percentile per-packet one-way delay: 9.054 ms

Loss rate: 3.24%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-11-23 23:09:17

End at: 2019-11-23 23:09:47

Local clock offset: 4.507 ms

Remote clock offset: 3.791 ms

Below is generated by plot.py at 2019-11-24 01:25:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 865.67 Mbit/s

95th percentile per-packet one-way delay: 16.776 ms

Loss rate: 4.63%

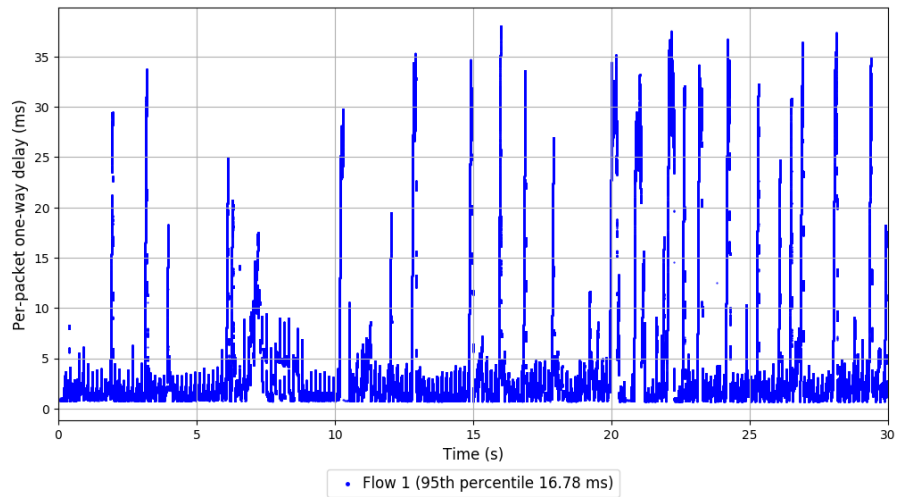
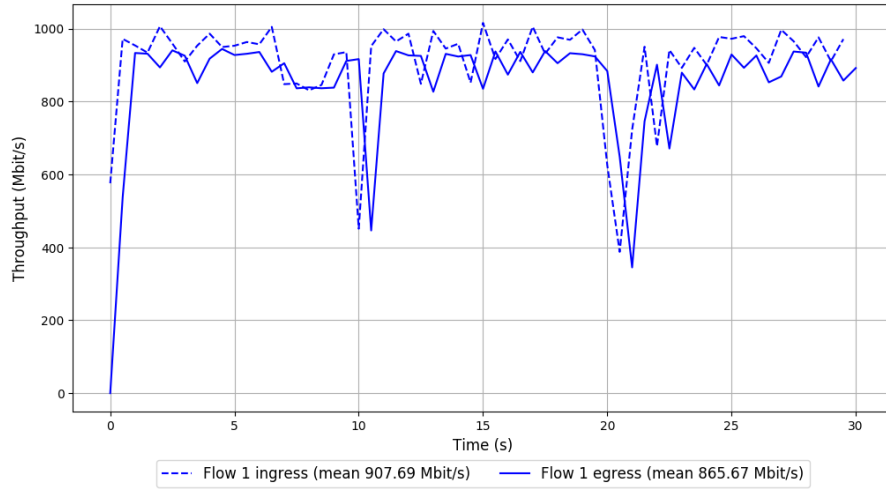
-- Flow 1:

Average throughput: 865.67 Mbit/s

95th percentile per-packet one-way delay: 16.776 ms

Loss rate: 4.63%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-11-23 23:42:46

End at: 2019-11-23 23:43:16

Local clock offset: 4.087 ms

Remote clock offset: -0.637 ms

Below is generated by plot.py at 2019-11-24 01:30:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 822.47 Mbit/s

95th percentile per-packet one-way delay: 15.260 ms

Loss rate: 3.22%

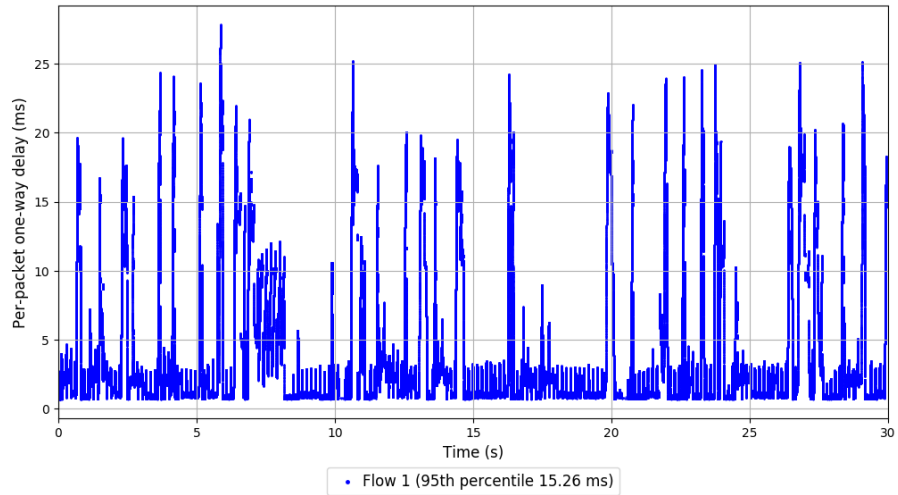
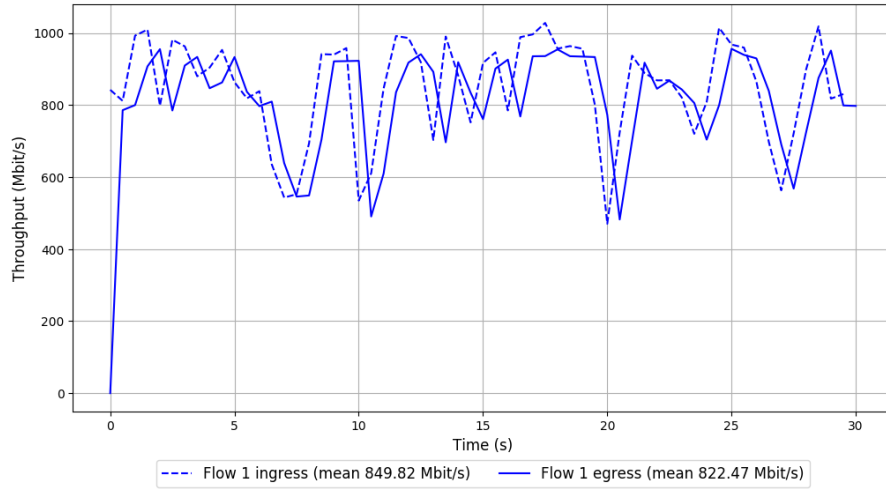
-- Flow 1:

Average throughput: 822.47 Mbit/s

95th percentile per-packet one-way delay: 15.260 ms

Loss rate: 3.22%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-11-24 00:15:19

End at: 2019-11-24 00:15:49

Local clock offset: 3.447 ms

Remote clock offset: -4.122 ms

Below is generated by plot.py at 2019-11-24 01:30:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 644.41 Mbit/s

95th percentile per-packet one-way delay: 15.326 ms

Loss rate: 2.98%

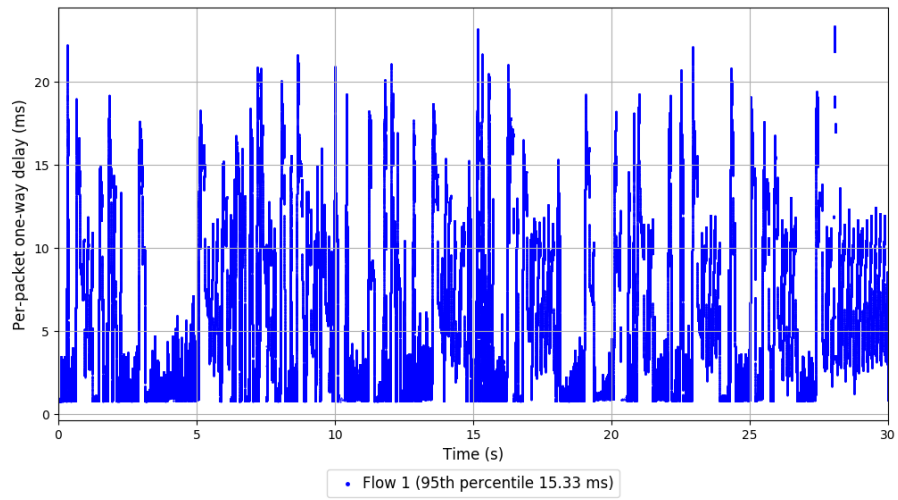
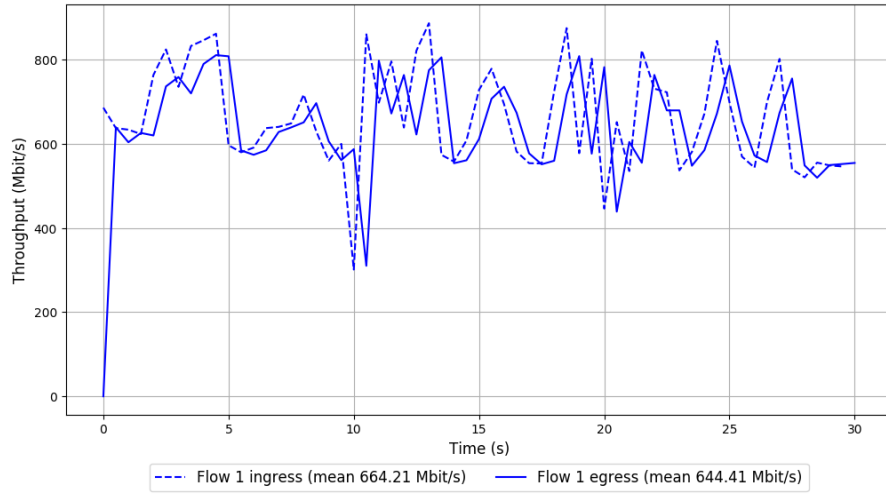
-- Flow 1:

Average throughput: 644.41 Mbit/s

95th percentile per-packet one-way delay: 15.326 ms

Loss rate: 2.98%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-11-24 00:48:25
End at: 2019-11-24 00:48:55
Local clock offset: 3.201 ms
Remote clock offset: -0.362 ms

Below is generated by plot.py at 2019-11-24 01:34:08

Datalink statistics

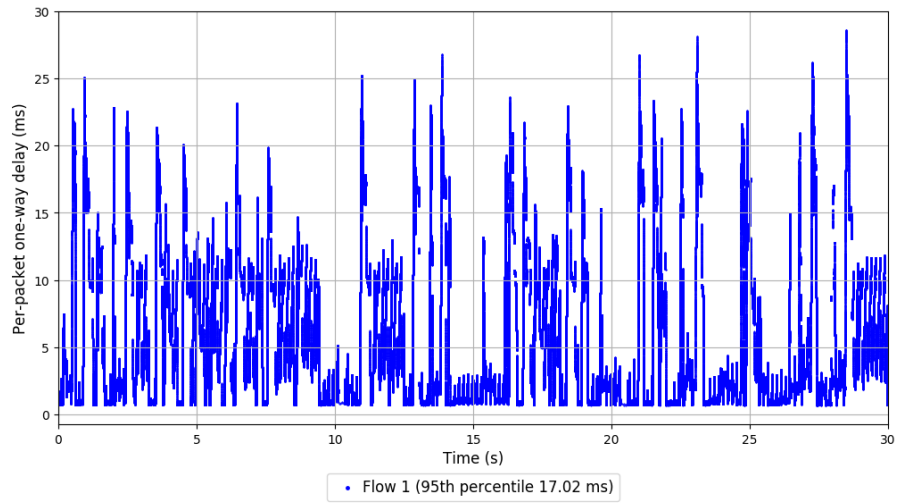
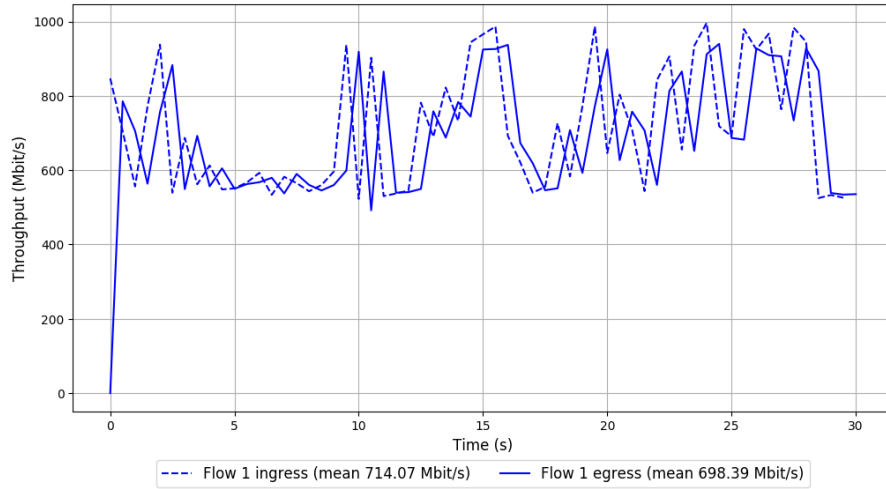
-- Total of 1 flow:

Average throughput: 698.39 Mbit/s
95th percentile per-packet one-way delay: 17.020 ms
Loss rate: 2.20%

-- Flow 1:

Average throughput: 698.39 Mbit/s
95th percentile per-packet one-way delay: 17.020 ms
Loss rate: 2.20%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-11-23 22:25:05

End at: 2019-11-23 22:25:35

Local clock offset: 4.025 ms

Remote clock offset: 2.518 ms

Below is generated by plot.py at 2019-11-24 01:34:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.61 Mbit/s

95th percentile per-packet one-way delay: 1.700 ms

Loss rate: 0.00%

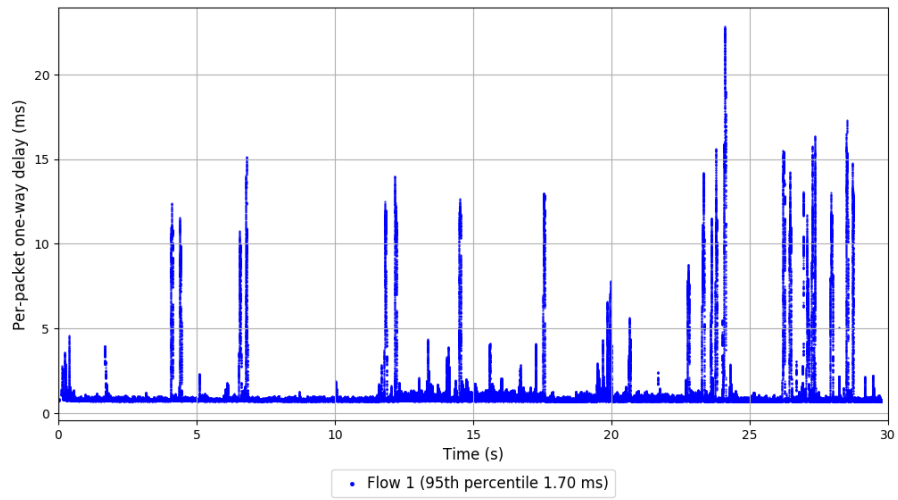
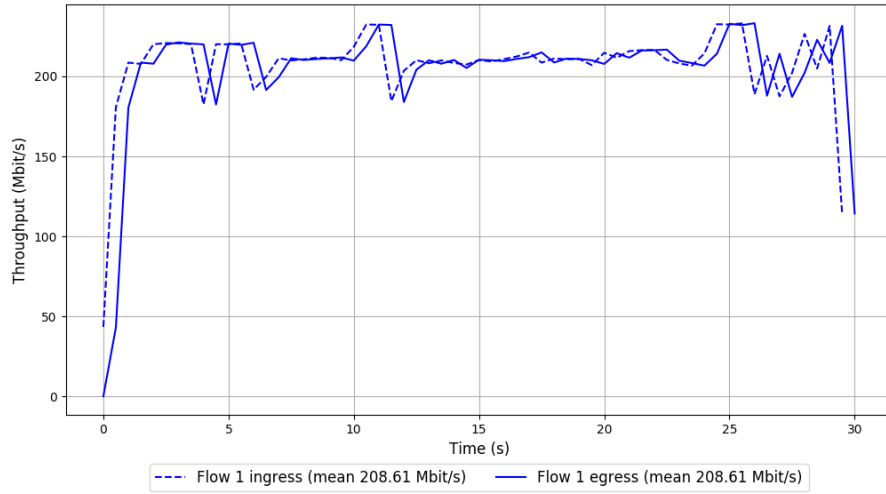
-- Flow 1:

Average throughput: 208.61 Mbit/s

95th percentile per-packet one-way delay: 1.700 ms

Loss rate: 0.00%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-11-23 22:58:26

End at: 2019-11-23 22:58:56

Local clock offset: 4.165 ms

Remote clock offset: 3.75 ms

Below is generated by plot.py at 2019-11-24 01:34:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 241.05 Mbit/s

95th percentile per-packet one-way delay: 1.144 ms

Loss rate: 0.00%

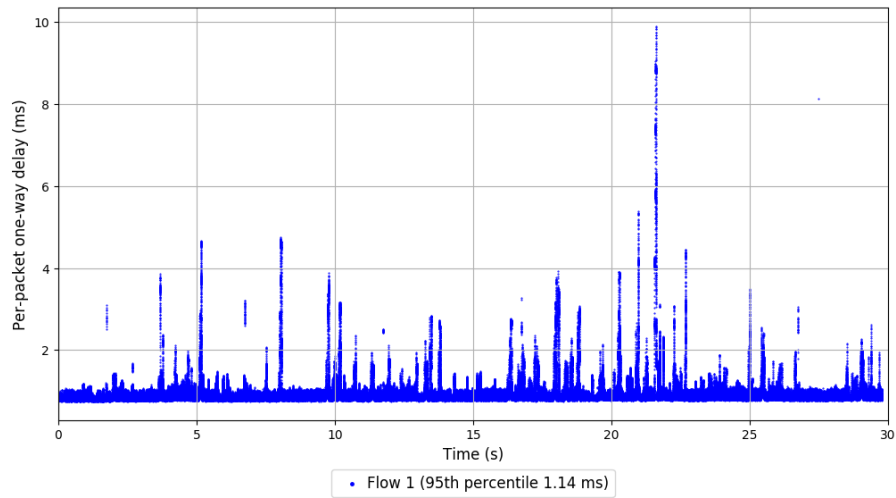
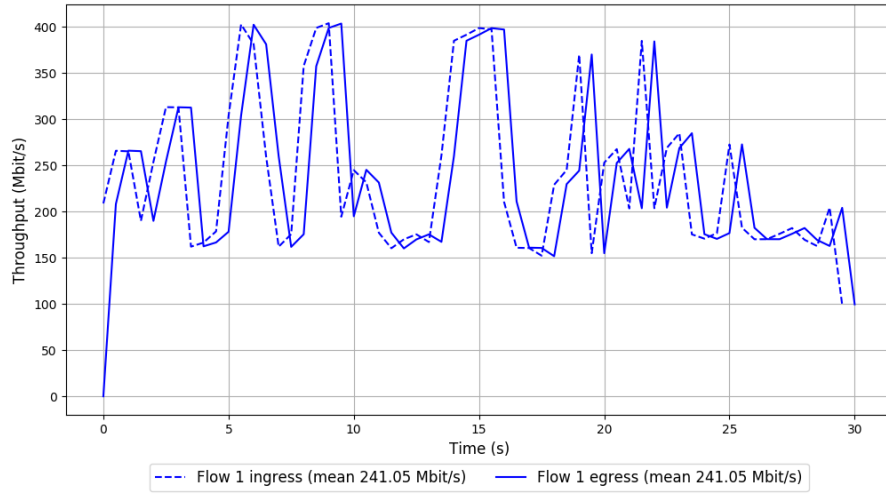
-- Flow 1:

Average throughput: 241.05 Mbit/s

95th percentile per-packet one-way delay: 1.144 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-11-23 23:31:40

End at: 2019-11-23 23:32:10

Local clock offset: 4.235 ms

Remote clock offset: 0.838 ms

Below is generated by plot.py at 2019-11-24 01:34:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 239.34 Mbit/s

95th percentile per-packet one-way delay: 1.393 ms

Loss rate: 0.00%

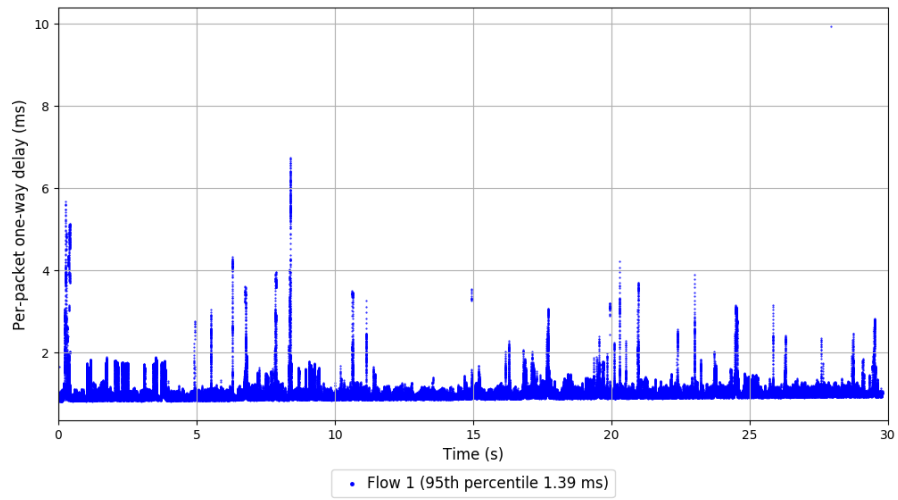
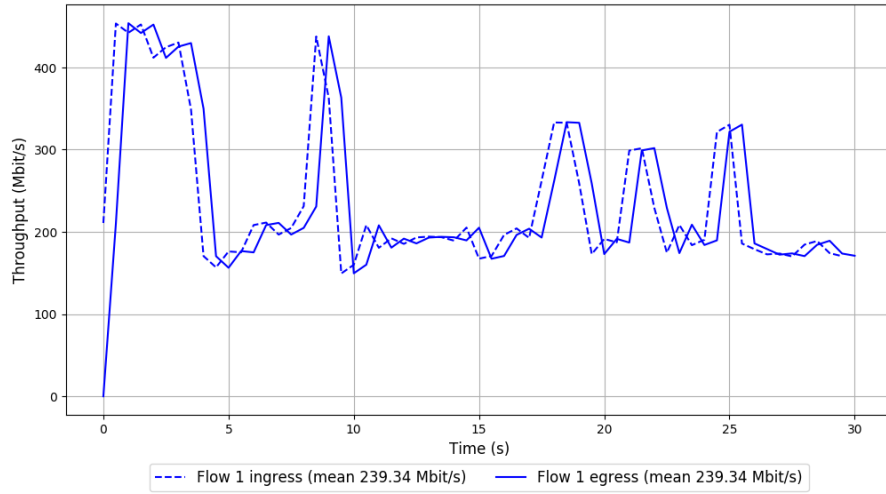
-- Flow 1:

Average throughput: 239.34 Mbit/s

95th percentile per-packet one-way delay: 1.393 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-11-24 00:04:53

End at: 2019-11-24 00:05:23

Local clock offset: 3.502 ms

Remote clock offset: -3.131 ms

Below is generated by plot.py at 2019-11-24 01:34:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 231.21 Mbit/s

95th percentile per-packet one-way delay: 1.295 ms

Loss rate: 0.00%

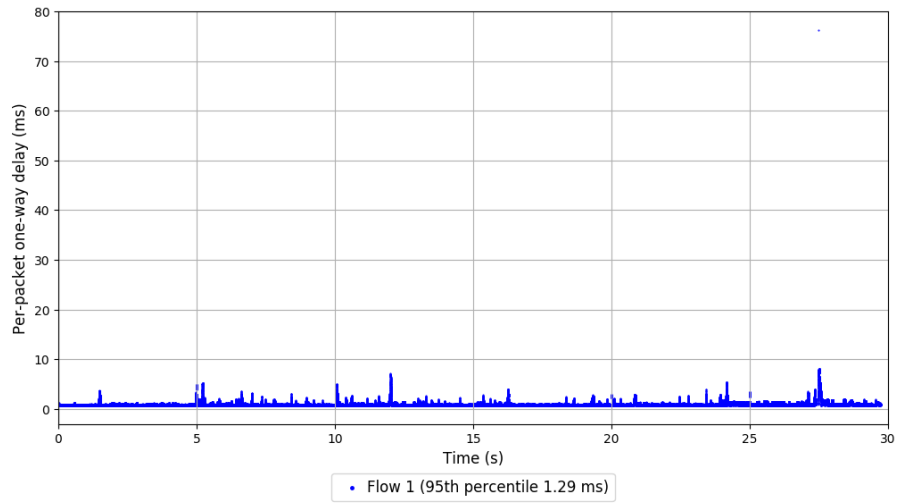
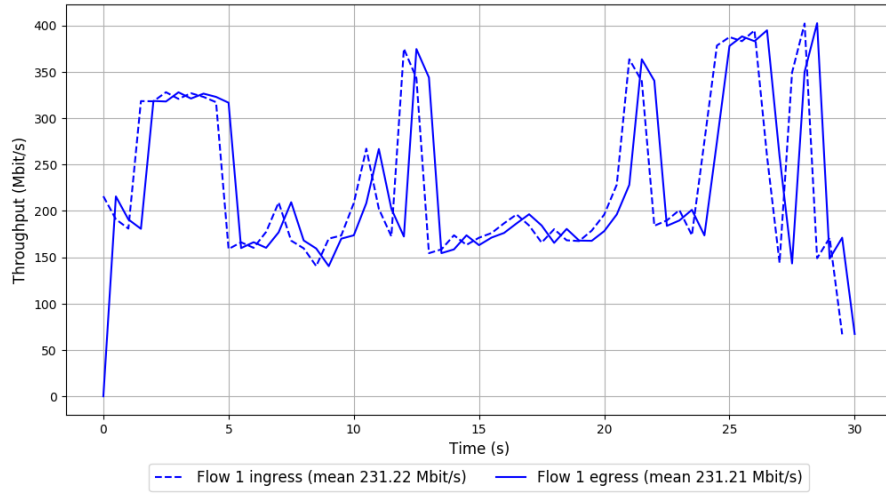
-- Flow 1:

Average throughput: 231.21 Mbit/s

95th percentile per-packet one-way delay: 1.295 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-11-24 00:37:26

End at: 2019-11-24 00:37:56

Local clock offset: 3.604 ms

Remote clock offset: -2.125 ms

Below is generated by plot.py at 2019-11-24 01:34:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 236.25 Mbit/s

95th percentile per-packet one-way delay: 1.386 ms

Loss rate: 0.00%

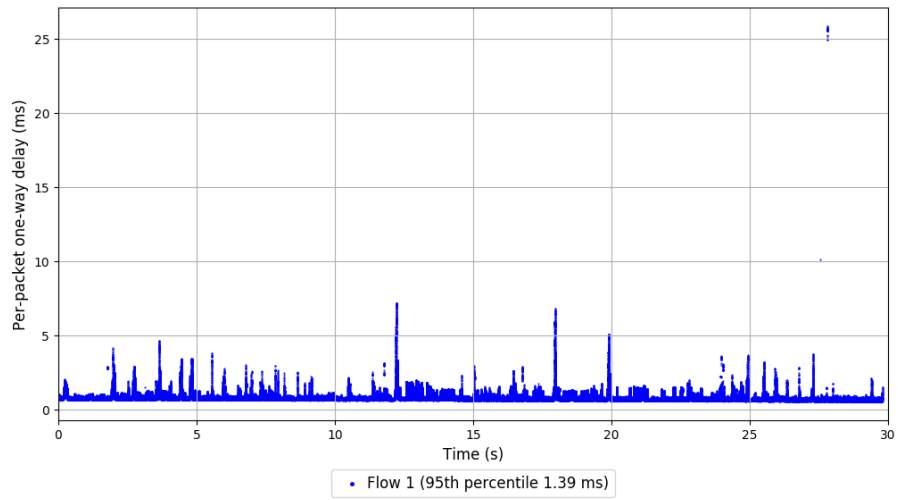
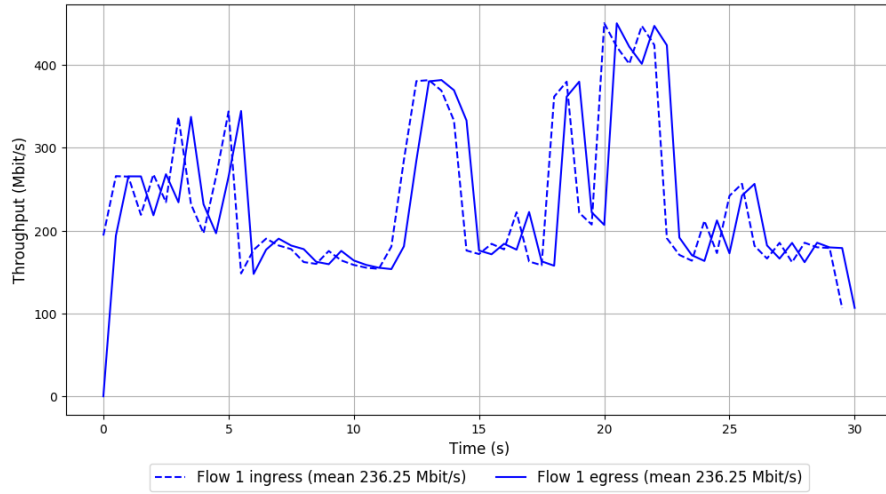
-- Flow 1:

Average throughput: 236.25 Mbit/s

95th percentile per-packet one-way delay: 1.386 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-11-23 22:31:57

End at: 2019-11-23 22:32:27

Local clock offset: 4.64 ms

Remote clock offset: 3.447 ms

Below is generated by plot.py at 2019-11-24 01:34:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 634.18 Mbit/s

95th percentile per-packet one-way delay: 14.225 ms

Loss rate: 0.09%

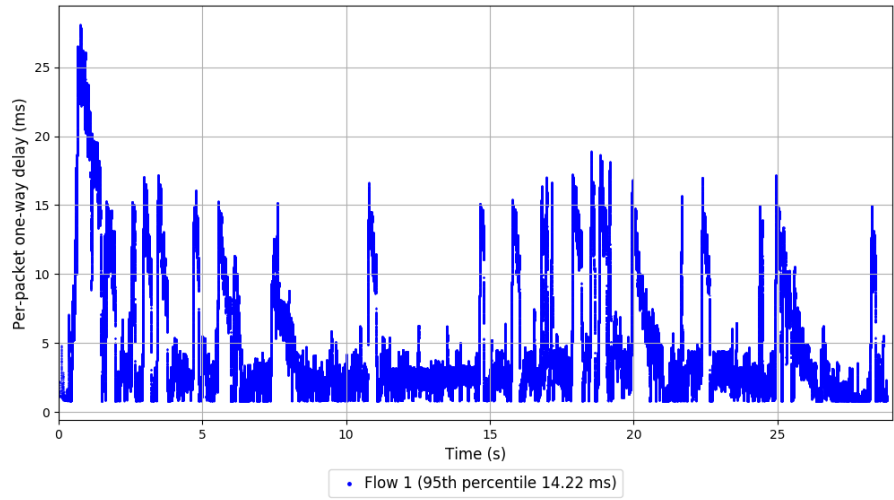
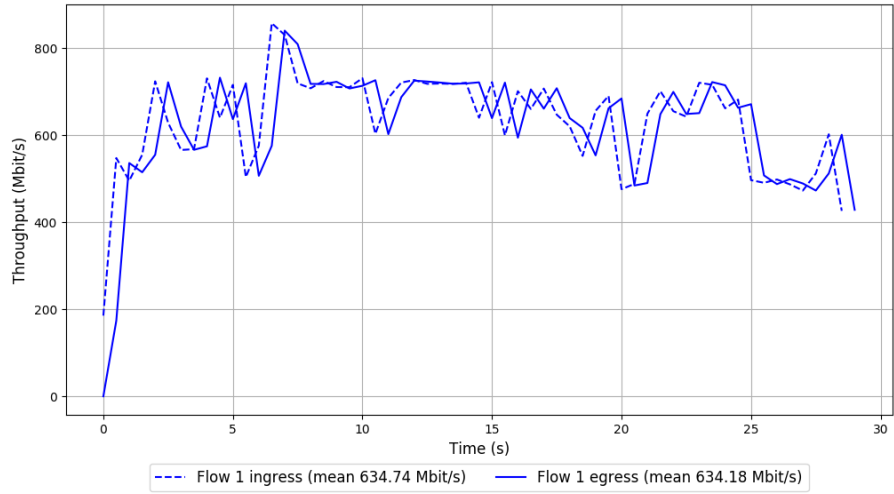
-- Flow 1:

Average throughput: 634.18 Mbit/s

95th percentile per-packet one-way delay: 14.225 ms

Loss rate: 0.09%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-11-23 23:05:04

End at: 2019-11-23 23:05:34

Local clock offset: 4.328 ms

Remote clock offset: 3.722 ms

Below is generated by plot.py at 2019-11-24 01:34:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 616.62 Mbit/s

95th percentile per-packet one-way delay: 12.313 ms

Loss rate: 0.01%

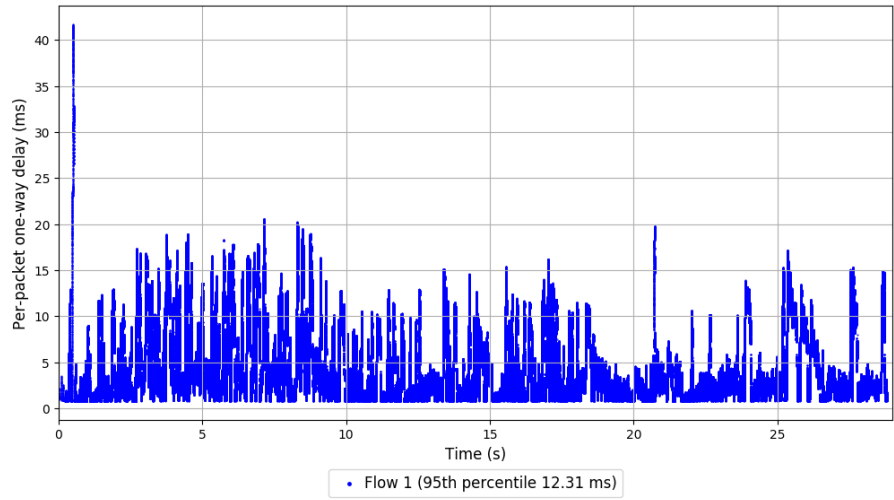
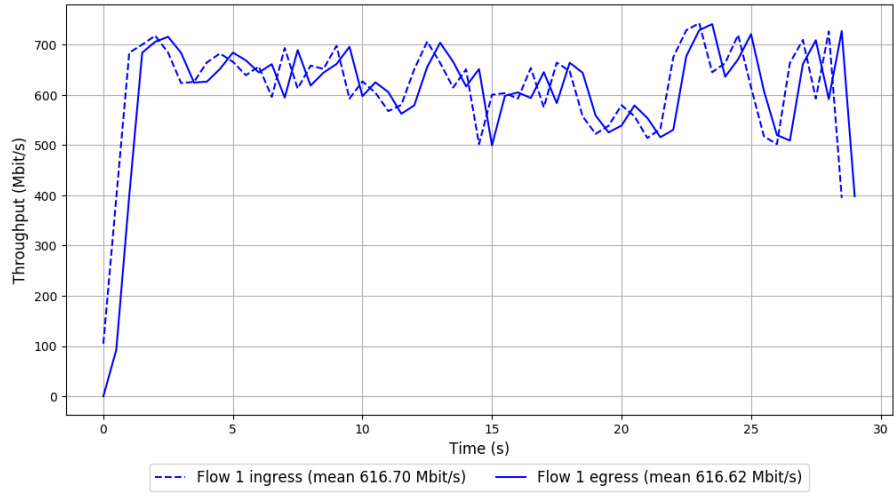
-- Flow 1:

Average throughput: 616.62 Mbit/s

95th percentile per-packet one-way delay: 12.313 ms

Loss rate: 0.01%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-11-23 23:38:49

End at: 2019-11-23 23:39:19

Local clock offset: 4.458 ms

Remote clock offset: -0.28 ms

Below is generated by plot.py at 2019-11-24 01:34:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 600.63 Mbit/s

95th percentile per-packet one-way delay: 13.123 ms

Loss rate: 0.03%

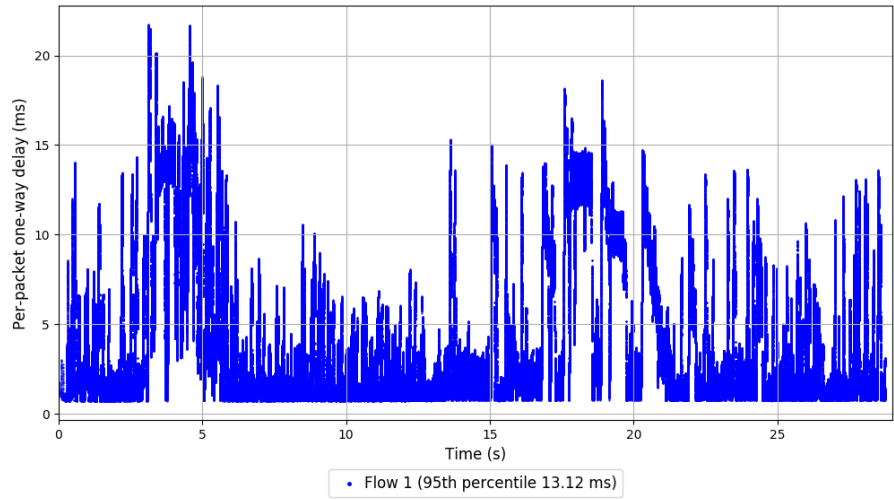
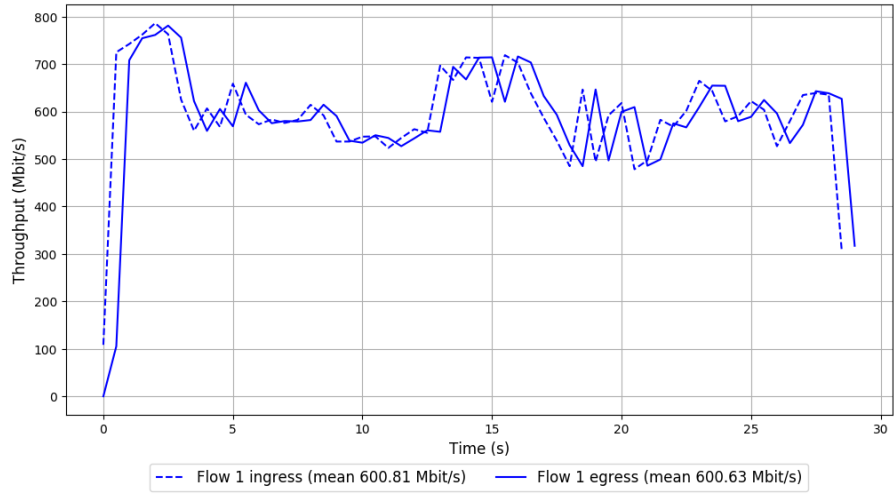
-- Flow 1:

Average throughput: 600.63 Mbit/s

95th percentile per-packet one-way delay: 13.123 ms

Loss rate: 0.03%

Run 3: Report of Indigo-MusesC3 — Data Link

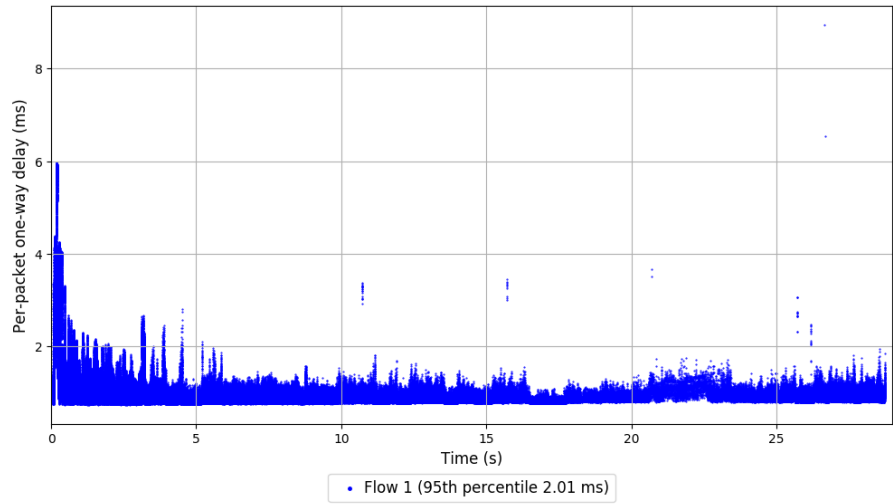
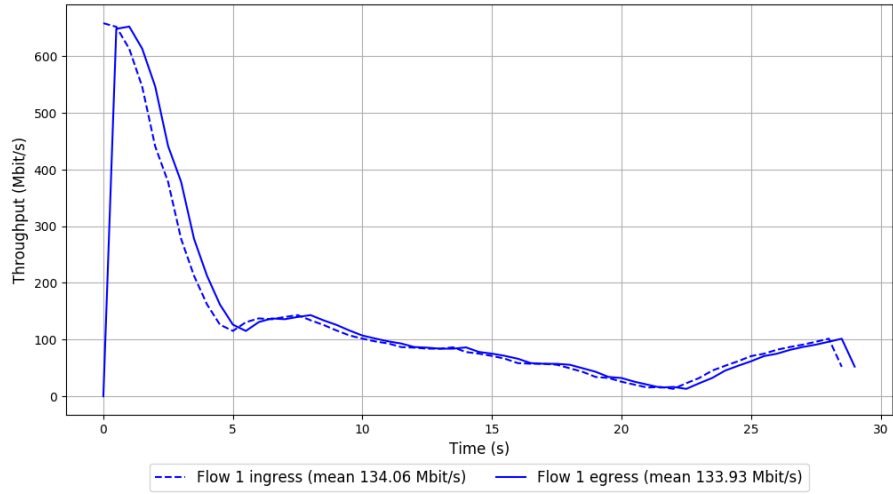


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-11-24 00:11:35
End at: 2019-11-24 00:12:05
Local clock offset: 3.472 ms
Remote clock offset: -3.798 ms

```
# Below is generated by plot.py at 2019-11-24 01:34:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 133.93 Mbit/s
95th percentile per-packet one-way delay: 2.009 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 133.93 Mbit/s
95th percentile per-packet one-way delay: 2.009 ms
Loss rate: 0.10%
```

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-11-24 00:44:28
End at: 2019-11-24 00:44:58
Local clock offset: 3.363 ms
Remote clock offset: -0.742 ms

Below is generated by plot.py at 2019-11-24 01:35:28

Datalink statistics

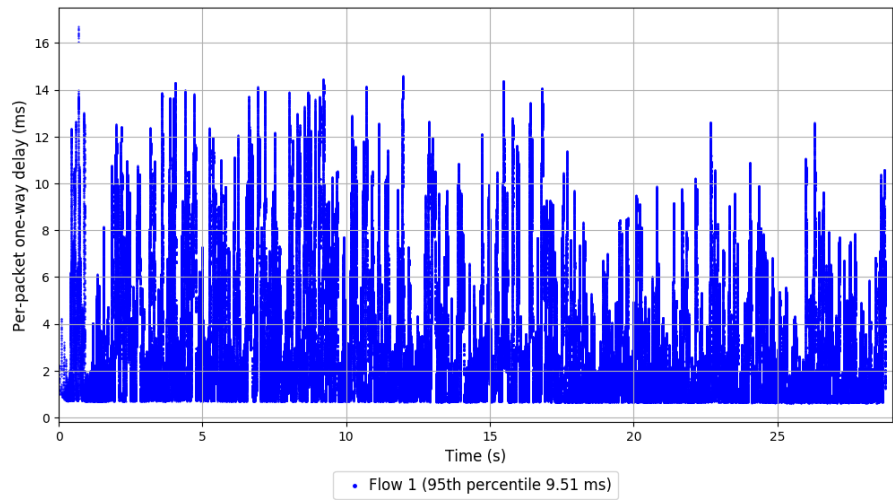
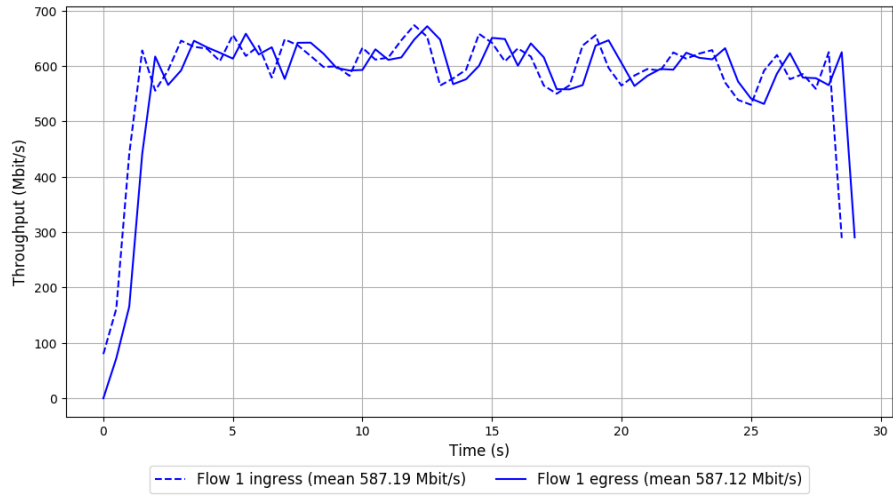
-- Total of 1 flow:

Average throughput: 587.12 Mbit/s
95th percentile per-packet one-way delay: 9.514 ms
Loss rate: 0.01%

-- Flow 1:

Average throughput: 587.12 Mbit/s
95th percentile per-packet one-way delay: 9.514 ms
Loss rate: 0.01%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-11-23 22:30:26

End at: 2019-11-23 22:30:57

Local clock offset: 4.517 ms

Remote clock offset: 3.287 ms

Below is generated by plot.py at 2019-11-24 01:35:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 580.37 Mbit/s

95th percentile per-packet one-way delay: 11.624 ms

Loss rate: 0.04%

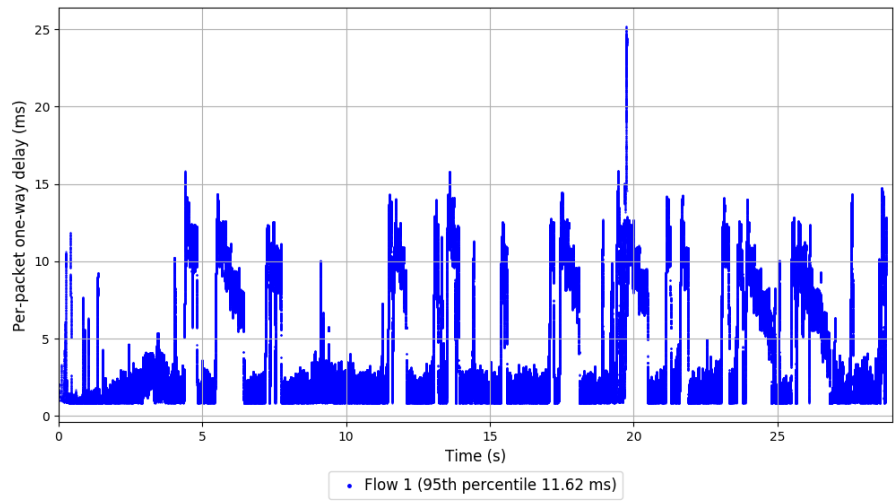
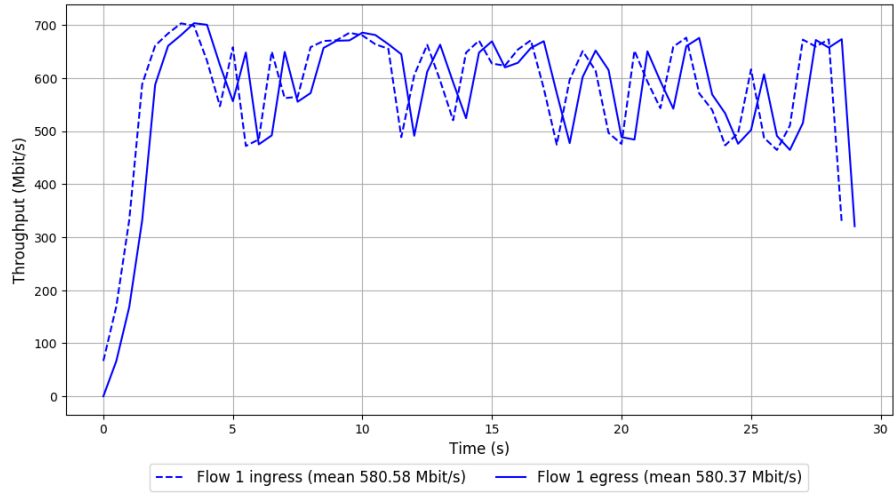
-- Flow 1:

Average throughput: 580.37 Mbit/s

95th percentile per-packet one-way delay: 11.624 ms

Loss rate: 0.04%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-11-23 23:03:48

End at: 2019-11-23 23:04:18

Local clock offset: 4.314 ms

Remote clock offset: 3.719 ms

Below is generated by plot.py at 2019-11-24 01:35:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.22 Mbit/s

95th percentile per-packet one-way delay: 5.295 ms

Loss rate: 0.00%

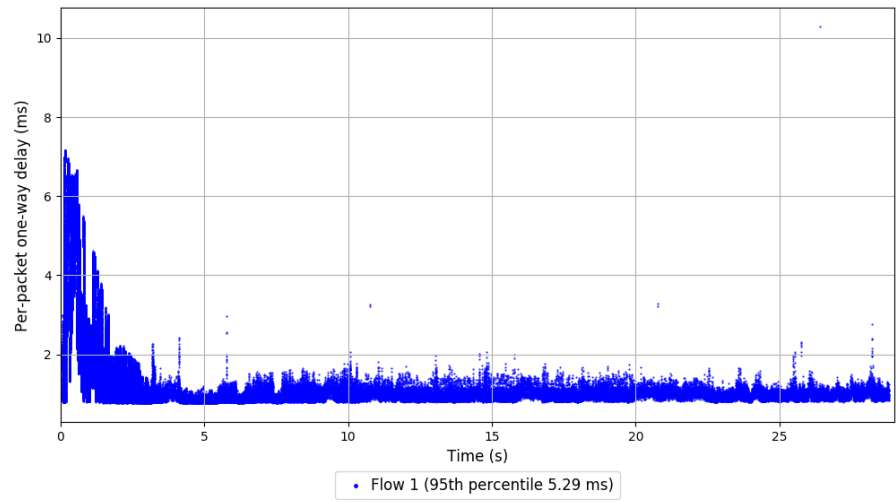
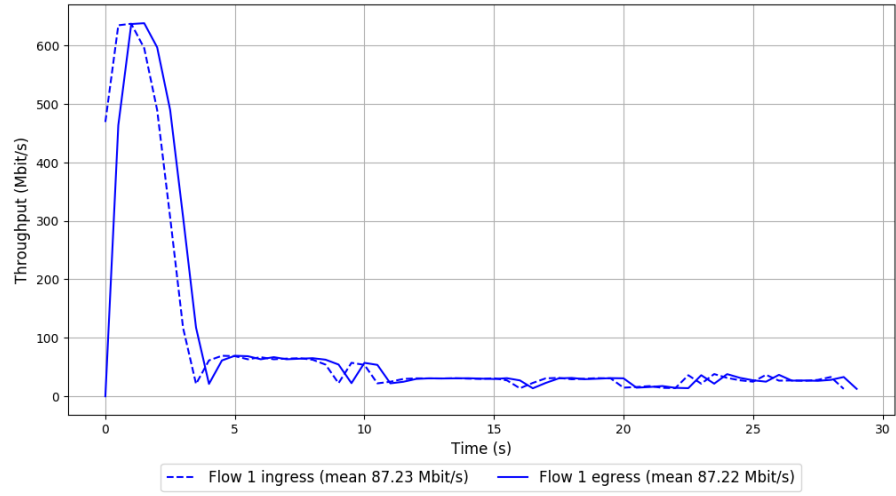
-- Flow 1:

Average throughput: 87.22 Mbit/s

95th percentile per-packet one-way delay: 5.295 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-11-23 23:37:18

End at: 2019-11-23 23:37:48

Local clock offset: 4.409 ms

Remote clock offset: -0.058 ms

Below is generated by plot.py at 2019-11-24 01:36:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 585.19 Mbit/s

95th percentile per-packet one-way delay: 7.378 ms

Loss rate: 0.00%

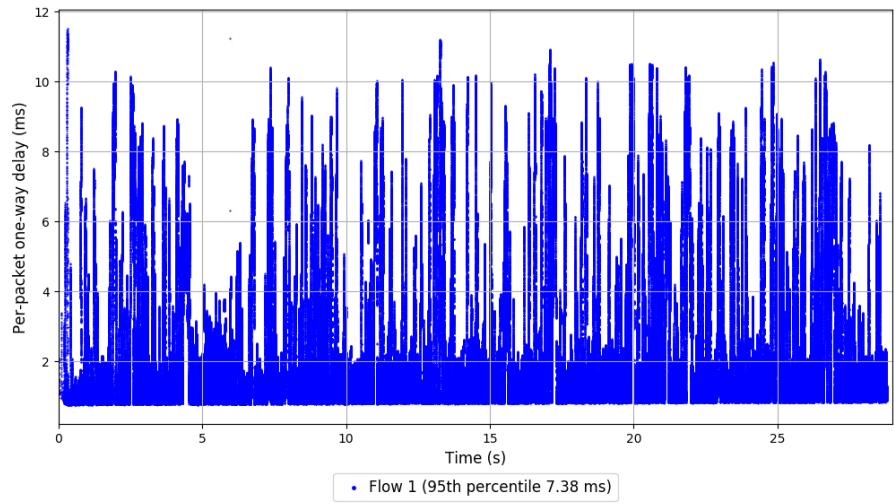
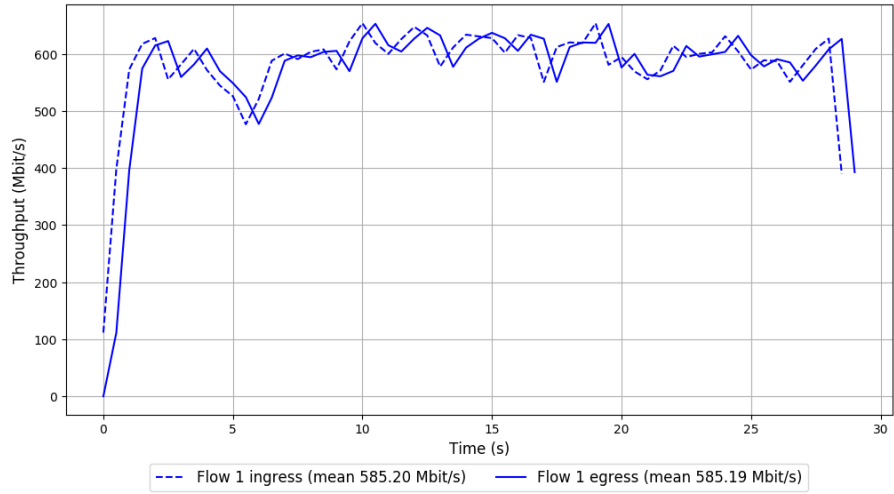
-- Flow 1:

Average throughput: 585.19 Mbit/s

95th percentile per-packet one-way delay: 7.378 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesC5 — Data Link

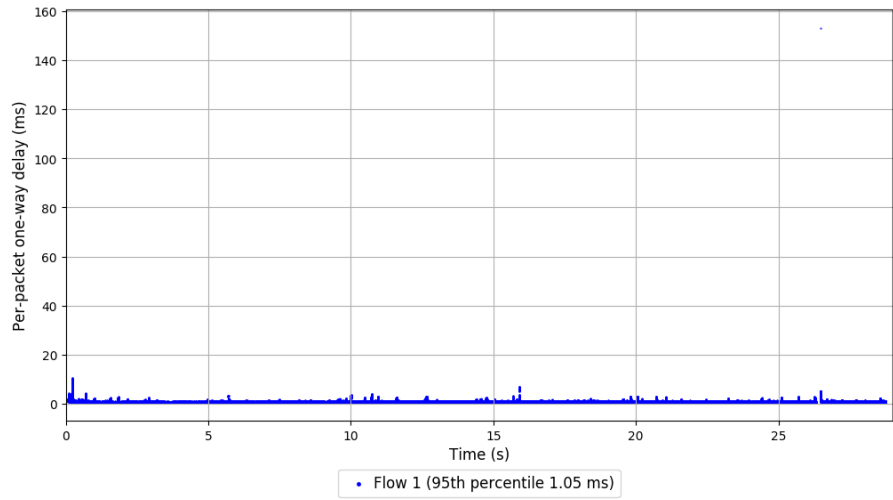
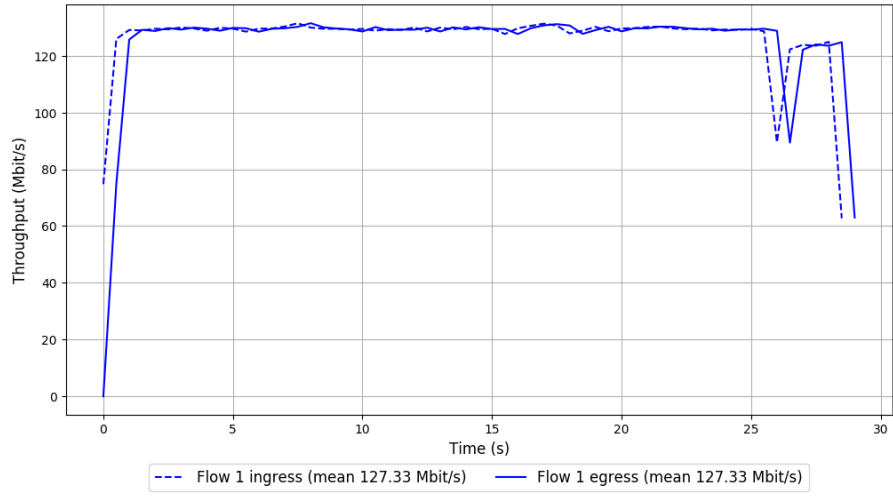


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-11-24 00:10:19
End at: 2019-11-24 00:10:49
Local clock offset: 3.505 ms
Remote clock offset: -3.688 ms

Below is generated by plot.py at 2019-11-24 01:36:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 127.33 Mbit/s
95th percentile per-packet one-way delay: 1.053 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 127.33 Mbit/s
95th percentile per-packet one-way delay: 1.053 ms
Loss rate: 0.00%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-11-24 00:42:57

End at: 2019-11-24 00:43:27

Local clock offset: 3.387 ms

Remote clock offset: -0.92 ms

Below is generated by plot.py at 2019-11-24 01:38:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 576.34 Mbit/s

95th percentile per-packet one-way delay: 8.357 ms

Loss rate: 0.13%

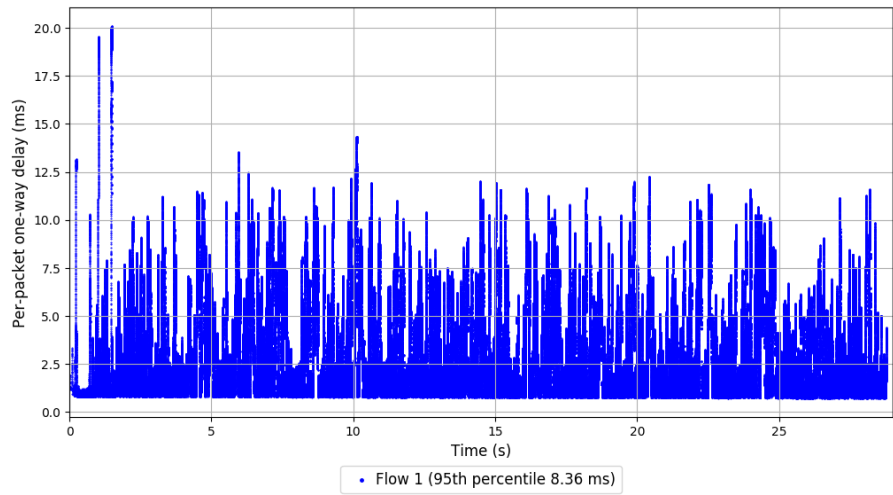
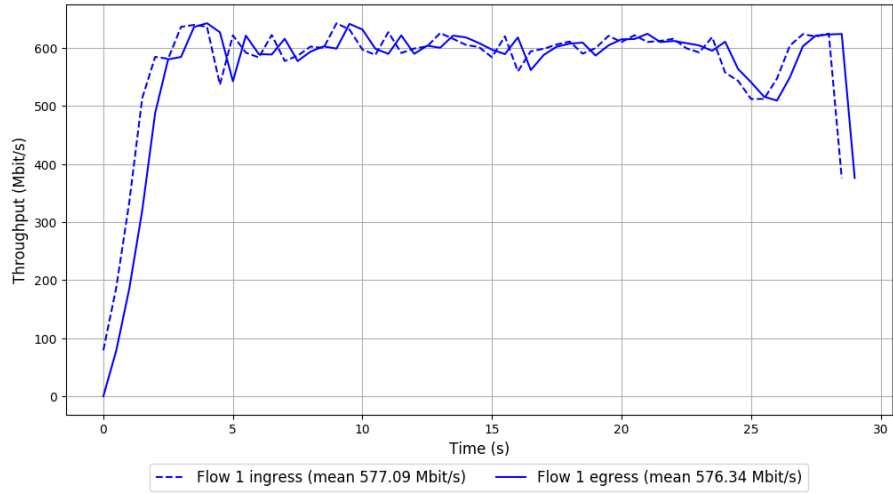
-- Flow 1:

Average throughput: 576.34 Mbit/s

95th percentile per-packet one-way delay: 8.357 ms

Loss rate: 0.13%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-11-23 22:40:33

End at: 2019-11-23 22:41:03

Local clock offset: 5.16 ms

Remote clock offset: 4.078 ms

Below is generated by plot.py at 2019-11-24 01:40:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 550.22 Mbit/s

95th percentile per-packet one-way delay: 13.953 ms

Loss rate: 0.01%

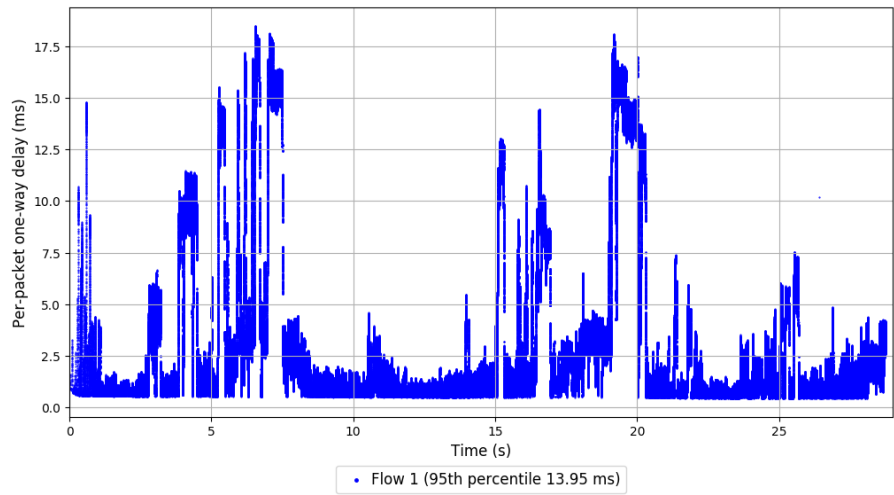
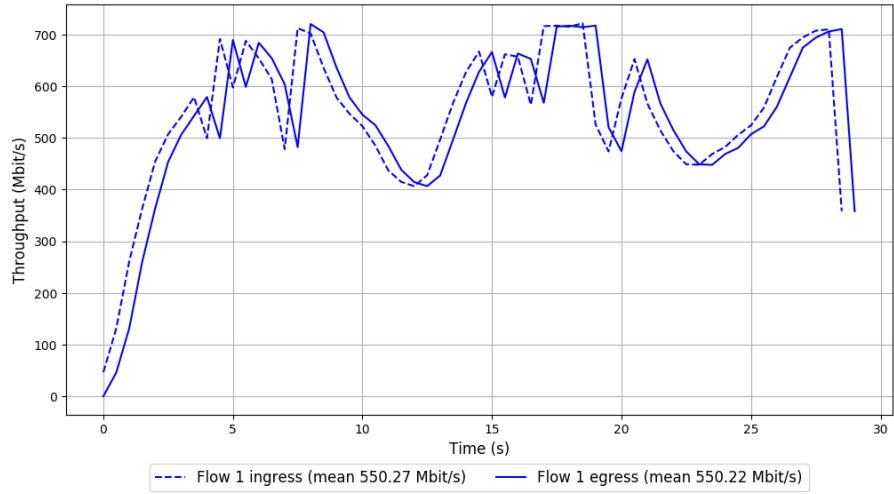
-- Flow 1:

Average throughput: 550.22 Mbit/s

95th percentile per-packet one-way delay: 13.953 ms

Loss rate: 0.01%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-11-23 23:13:52

End at: 2019-11-23 23:14:22

Local clock offset: 4.215 ms

Remote clock offset: 3.852 ms

Below is generated by plot.py at 2019-11-24 01:40:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 136.83 Mbit/s

95th percentile per-packet one-way delay: 1.812 ms

Loss rate: 0.00%

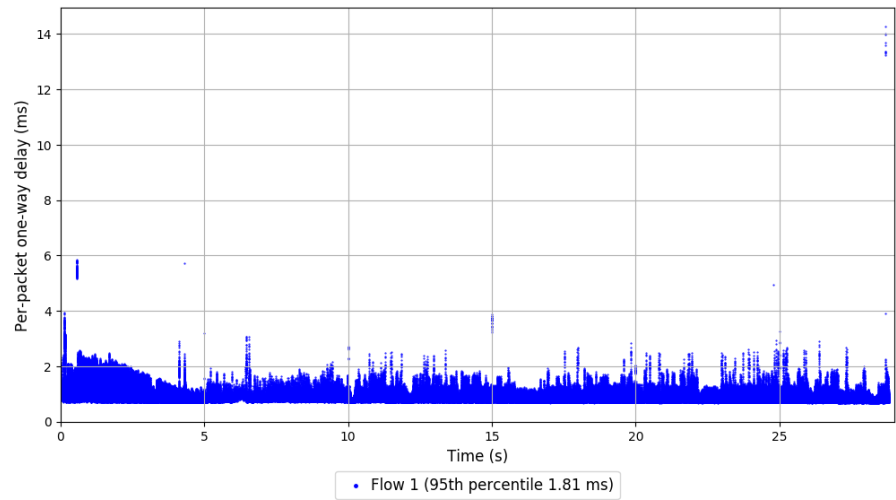
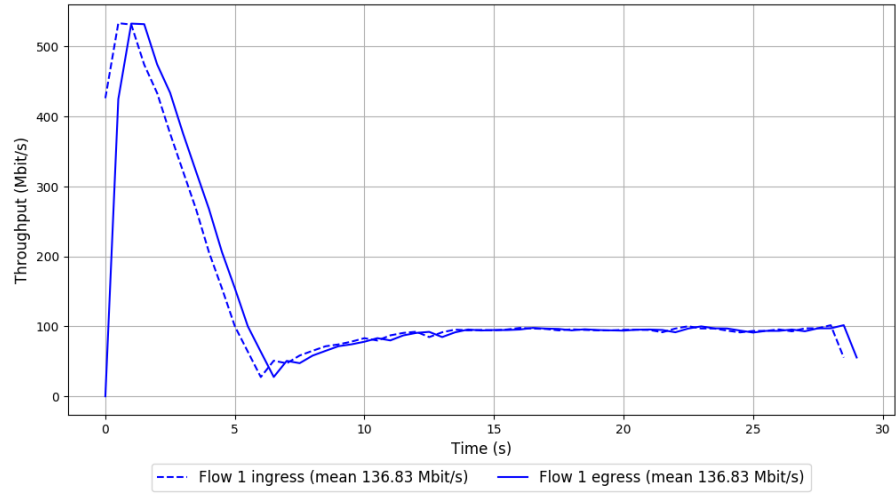
-- Flow 1:

Average throughput: 136.83 Mbit/s

95th percentile per-packet one-way delay: 1.812 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-11-23 23:47:17

End at: 2019-11-23 23:47:47

Local clock offset: 3.74 ms

Remote clock offset: -1.028 ms

Below is generated by plot.py at 2019-11-24 01:40:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 141.60 Mbit/s

95th percentile per-packet one-way delay: 1.587 ms

Loss rate: 0.00%

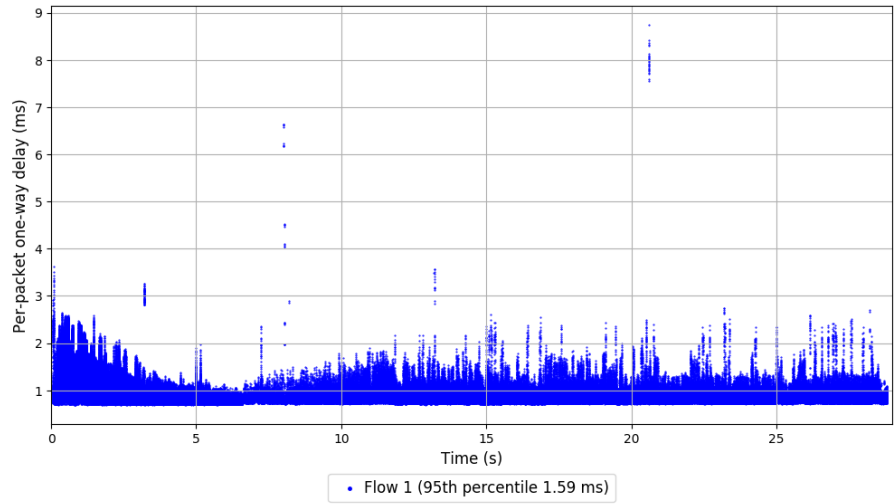
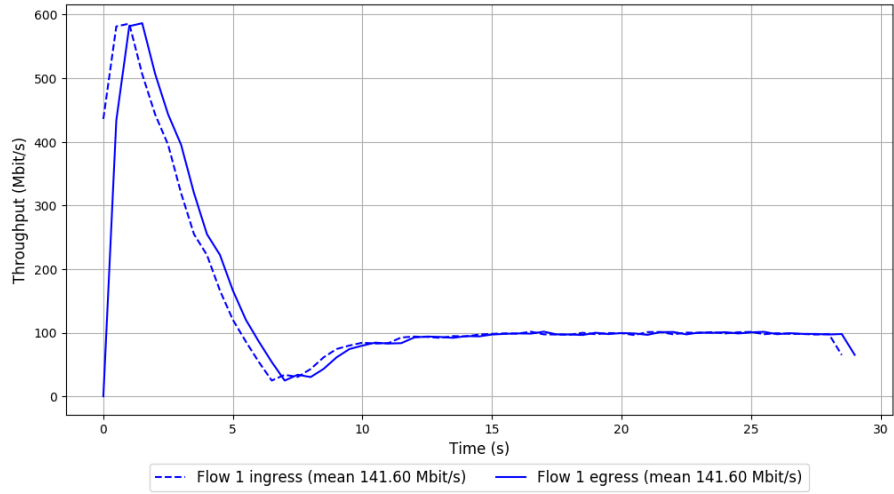
-- Flow 1:

Average throughput: 141.60 Mbit/s

95th percentile per-packet one-way delay: 1.587 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-11-24 00:19:35

End at: 2019-11-24 00:20:05

Local clock offset: 3.437 ms

Remote clock offset: -4.594 ms

Below is generated by plot.py at 2019-11-24 01:40:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 113.30 Mbit/s

95th percentile per-packet one-way delay: 0.993 ms

Loss rate: 0.00%

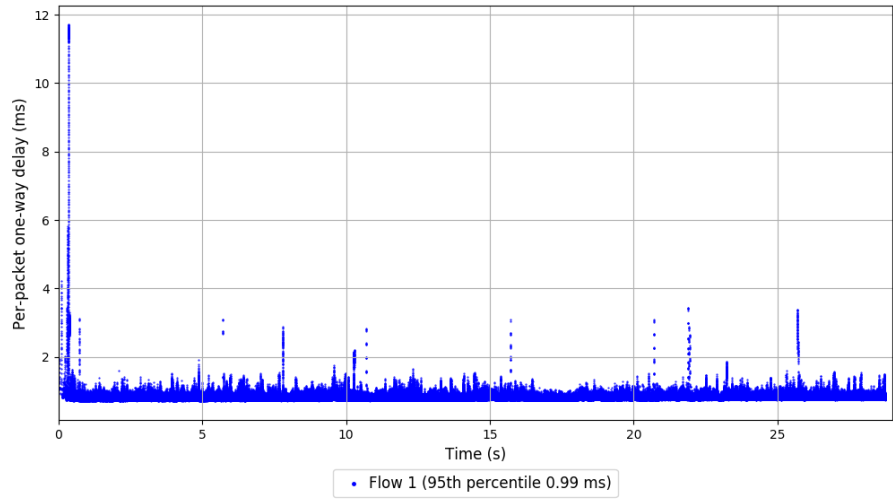
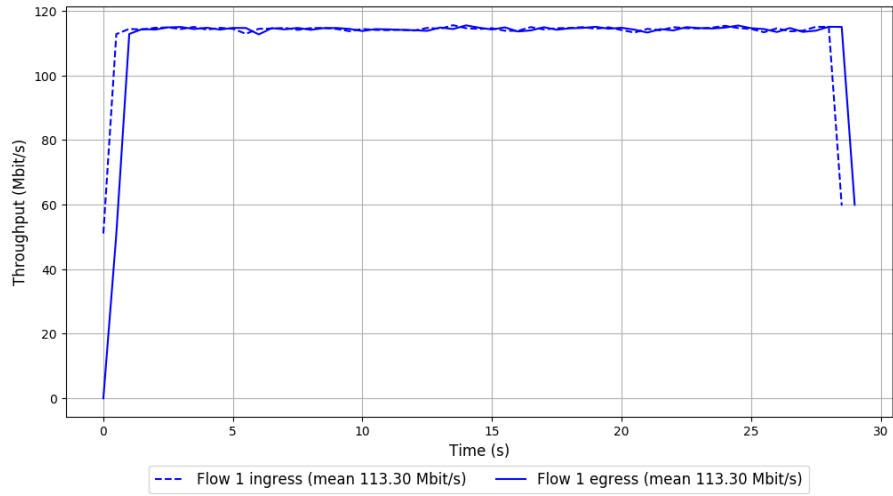
-- Flow 1:

Average throughput: 113.30 Mbit/s

95th percentile per-packet one-way delay: 0.993 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-11-24 00:52:40

End at: 2019-11-24 00:53:10

Local clock offset: 3.148 ms

Remote clock offset: -0.16 ms

Below is generated by plot.py at 2019-11-24 01:41:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 548.37 Mbit/s

95th percentile per-packet one-way delay: 11.090 ms

Loss rate: 0.00%

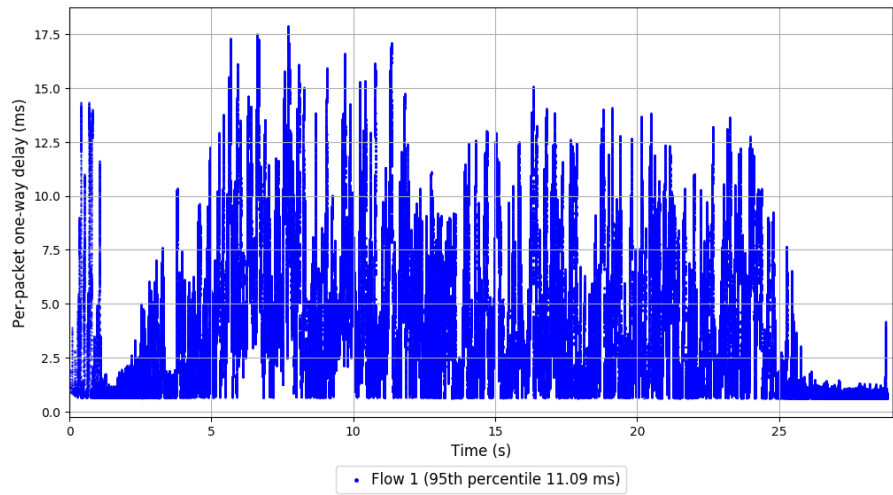
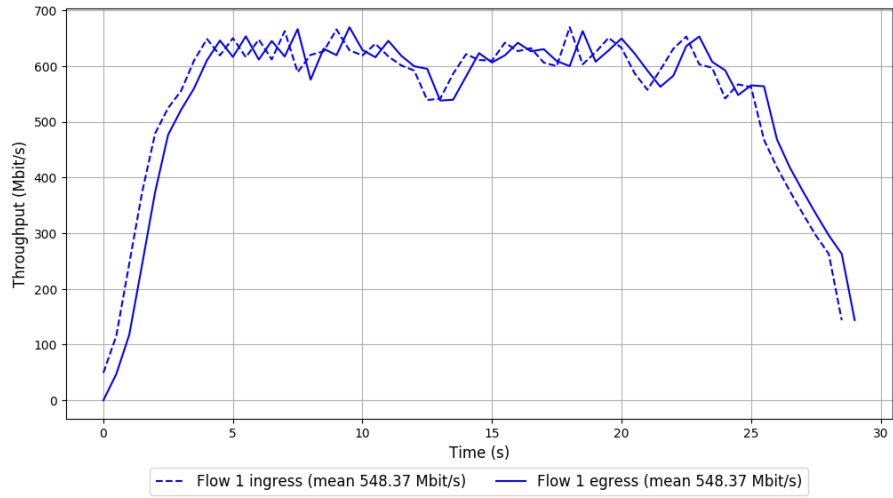
-- Flow 1:

Average throughput: 548.37 Mbit/s

95th percentile per-packet one-way delay: 11.090 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MuseST

Start at: 2019-11-23 22:43:24

End at: 2019-11-23 22:43:54

Local clock offset: 4.656 ms

Remote clock offset: 4.237 ms

Below is generated by plot.py at 2019-11-24 01:41:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 257.93 Mbit/s

95th percentile per-packet one-way delay: 1.394 ms

Loss rate: 0.00%

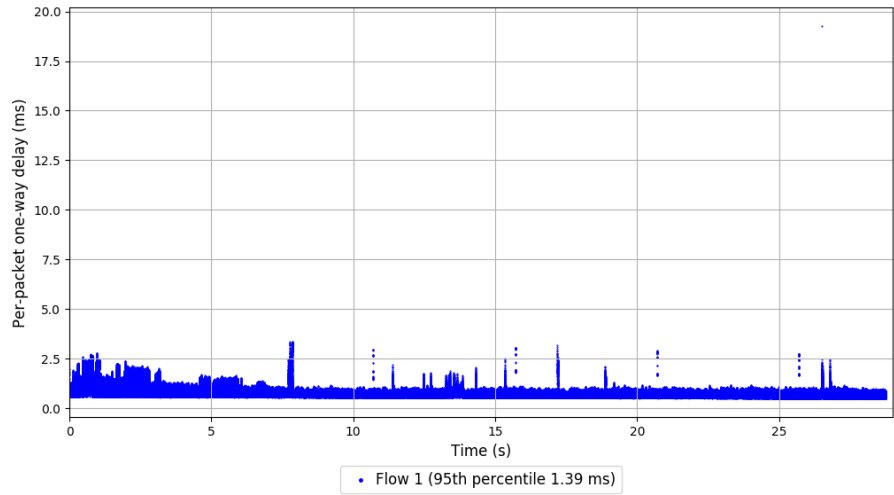
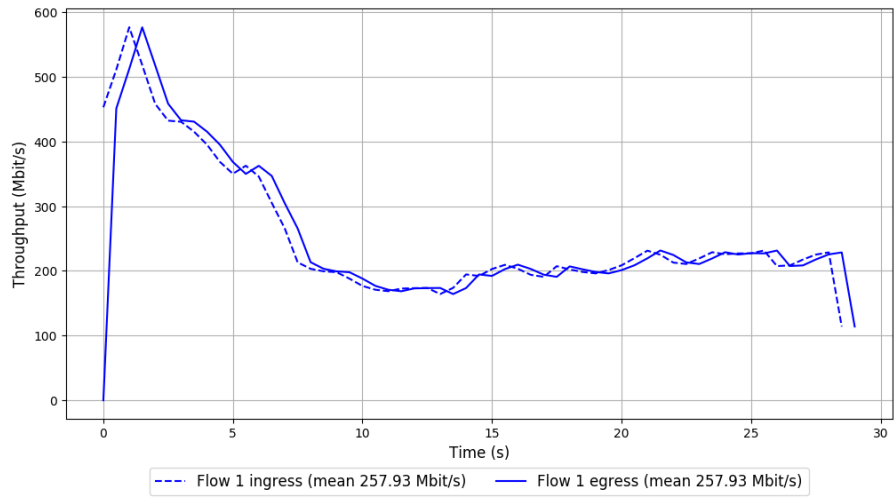
-- Flow 1:

Average throughput: 257.93 Mbit/s

95th percentile per-packet one-way delay: 1.394 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MuseST

Start at: 2019-11-23 23:16:29

End at: 2019-11-23 23:16:59

Local clock offset: 4.126 ms

Remote clock offset: 3.865 ms

Below is generated by plot.py at 2019-11-24 01:42:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 616.64 Mbit/s

95th percentile per-packet one-way delay: 15.134 ms

Loss rate: 0.12%

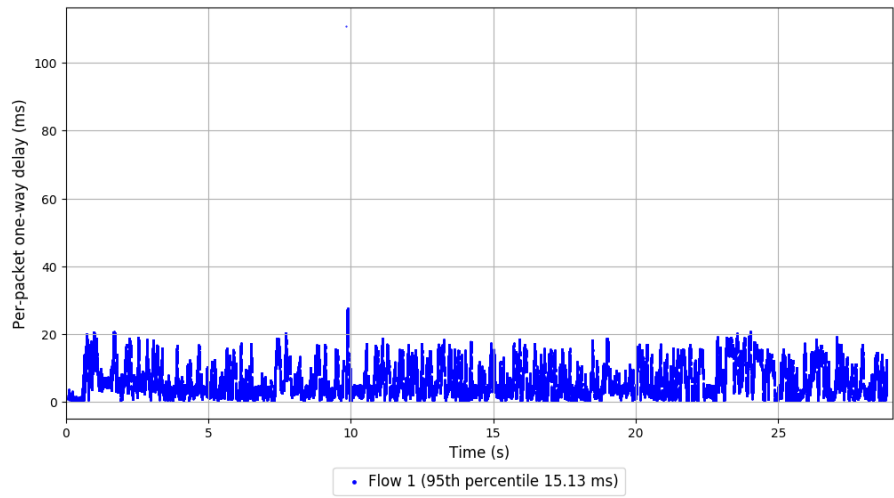
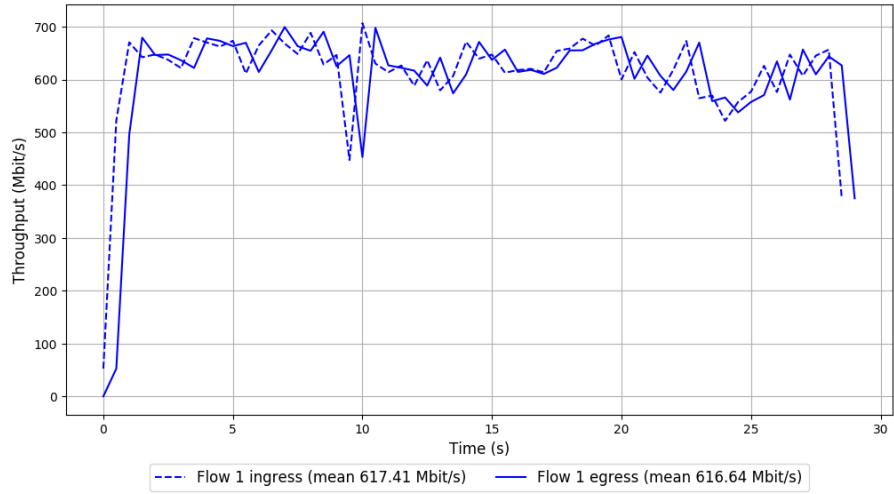
-- Flow 1:

Average throughput: 616.64 Mbit/s

95th percentile per-packet one-way delay: 15.134 ms

Loss rate: 0.12%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MuseST

Start at: 2019-11-23 23:49:59

End at: 2019-11-23 23:50:29

Local clock offset: 3.619 ms

Remote clock offset: -1.261 ms

Below is generated by plot.py at 2019-11-24 01:42:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 424.36 Mbit/s

95th percentile per-packet one-way delay: 1.441 ms

Loss rate: 0.00%

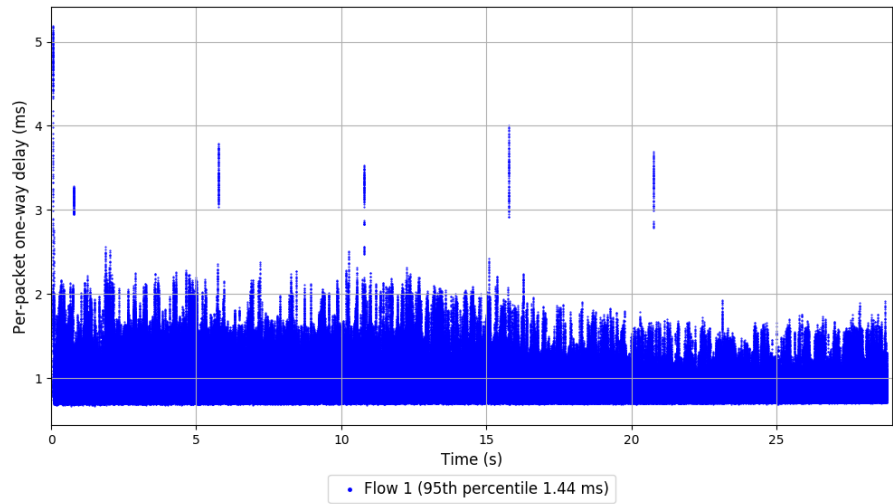
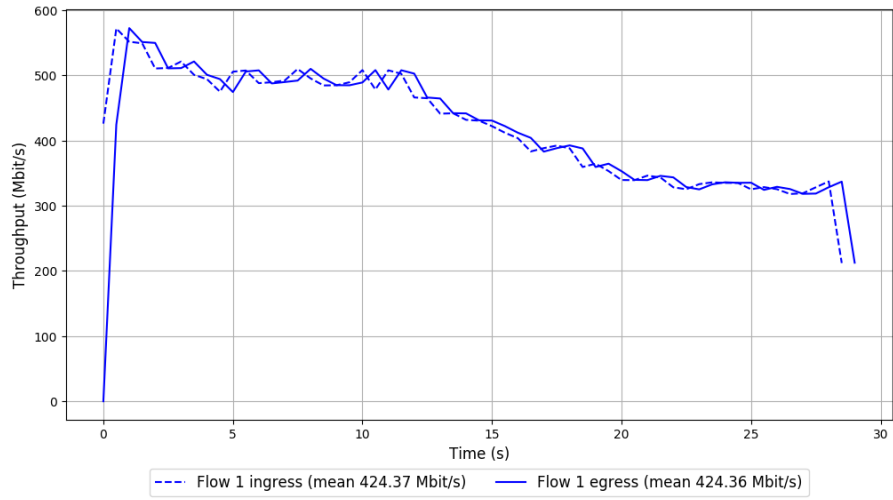
-- Flow 1:

Average throughput: 424.36 Mbit/s

95th percentile per-packet one-way delay: 1.441 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MuseST

Start at: 2019-11-24 00:22:16

End at: 2019-11-24 00:22:46

Local clock offset: 3.462 ms

Remote clock offset: -4.759 ms

Below is generated by plot.py at 2019-11-24 01:42:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 464.32 Mbit/s

95th percentile per-packet one-way delay: 1.559 ms

Loss rate: 0.01%

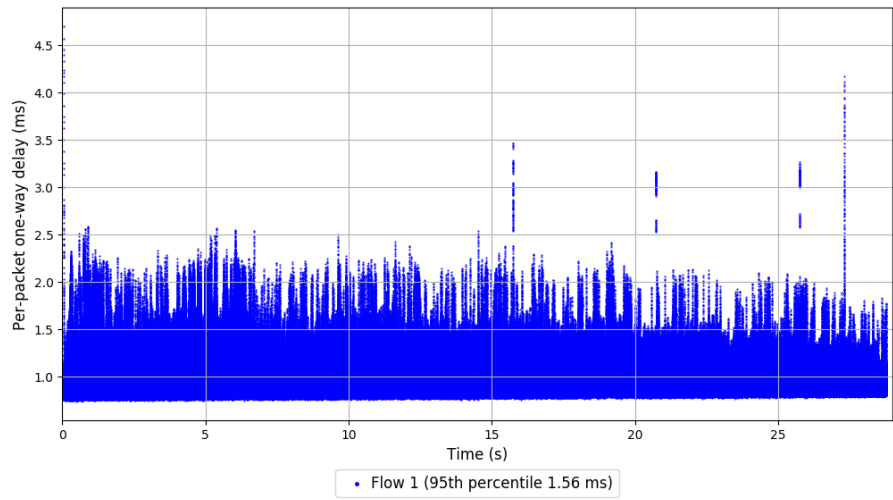
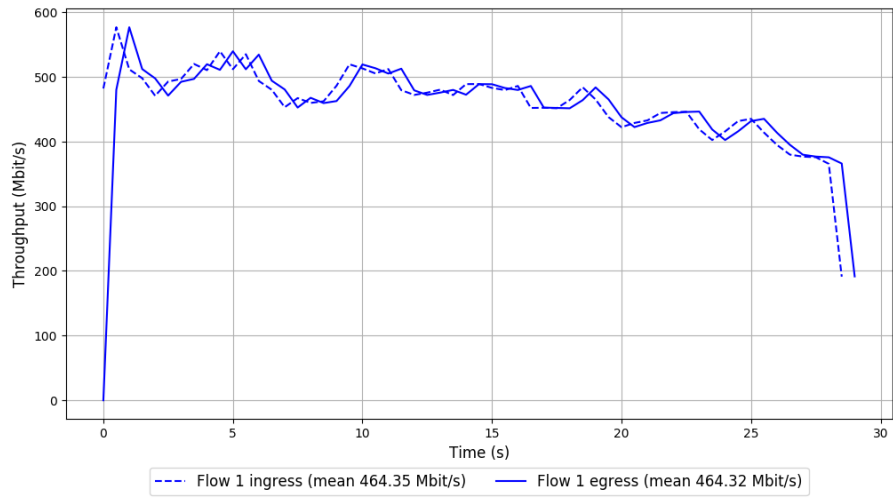
-- Flow 1:

Average throughput: 464.32 Mbit/s

95th percentile per-packet one-way delay: 1.559 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MuseST

Start at: 2019-11-24 00:55:27

End at: 2019-11-24 00:55:57

Local clock offset: 3.086 ms

Remote clock offset: 0.093 ms

Below is generated by plot.py at 2019-11-24 01:42:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 474.73 Mbit/s

95th percentile per-packet one-way delay: 1.651 ms

Loss rate: 0.00%

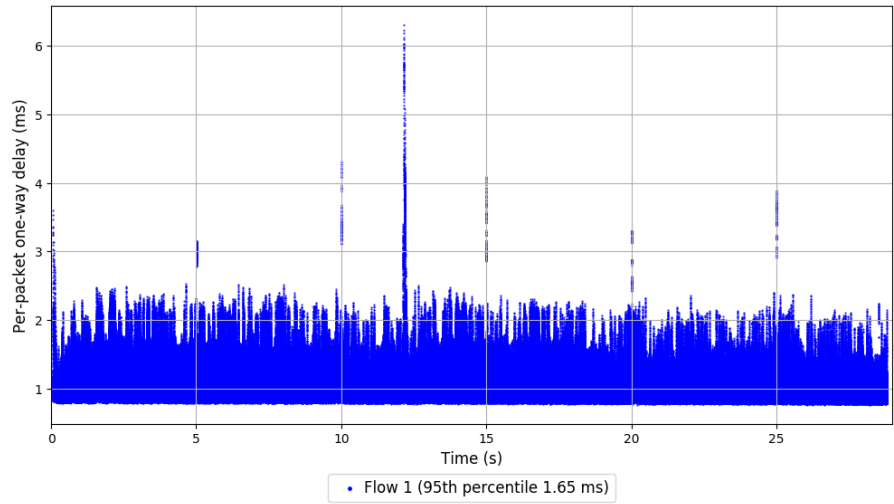
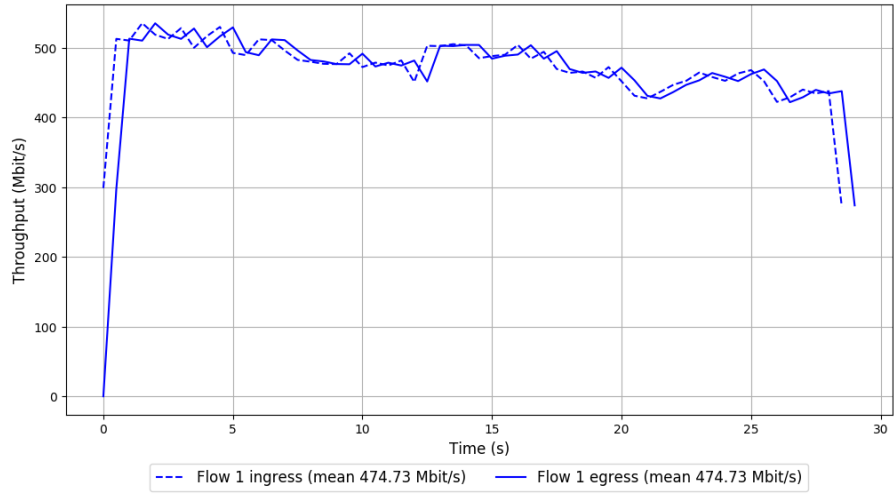
-- Flow 1:

Average throughput: 474.73 Mbit/s

95th percentile per-packet one-way delay: 1.651 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2019-11-23 22:26:27

End at: 2019-11-23 22:26:57

Local clock offset: 4.176 ms

Remote clock offset: 2.798 ms

Below is generated by plot.py at 2019-11-24 01:42:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 282.78 Mbit/s

95th percentile per-packet one-way delay: 1.595 ms

Loss rate: 0.01%

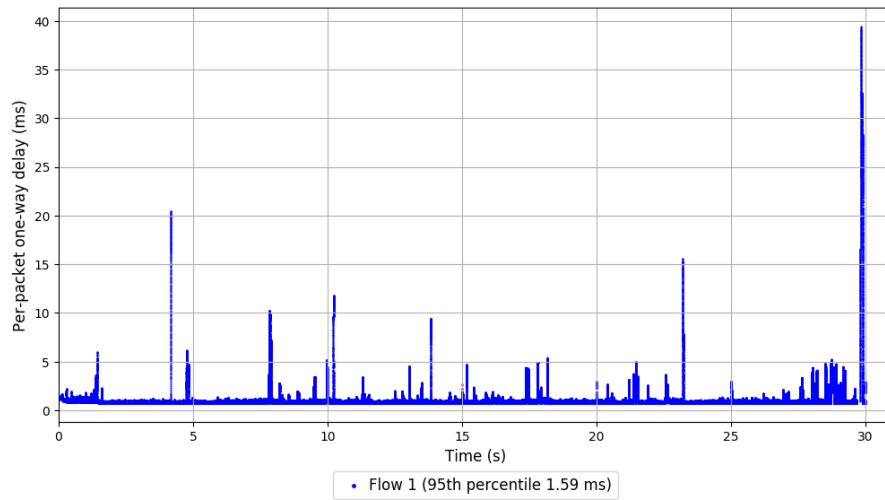
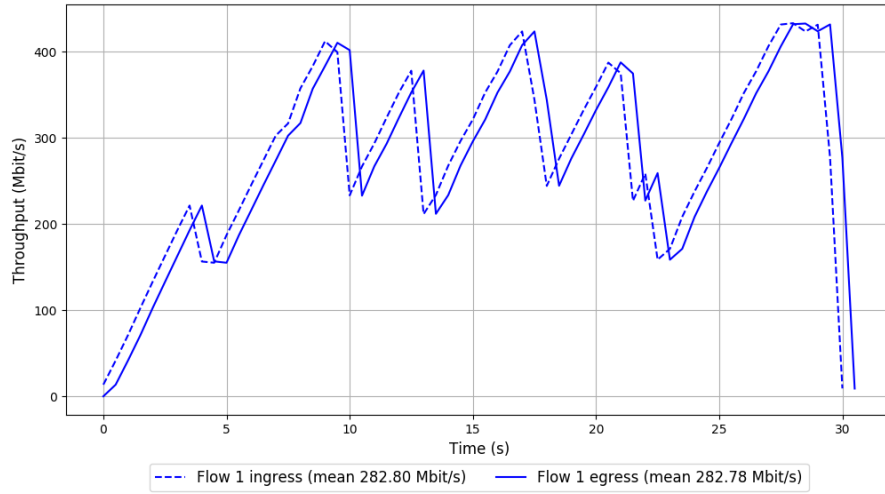
-- Flow 1:

Average throughput: 282.78 Mbit/s

95th percentile per-packet one-way delay: 1.595 ms

Loss rate: 0.01%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-11-23 22:59:49

End at: 2019-11-23 23:00:19

Local clock offset: 4.182 ms

Remote clock offset: 3.692 ms

Below is generated by plot.py at 2019-11-24 01:42:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.37 Mbit/s

95th percentile per-packet one-way delay: 1.177 ms

Loss rate: 0.01%

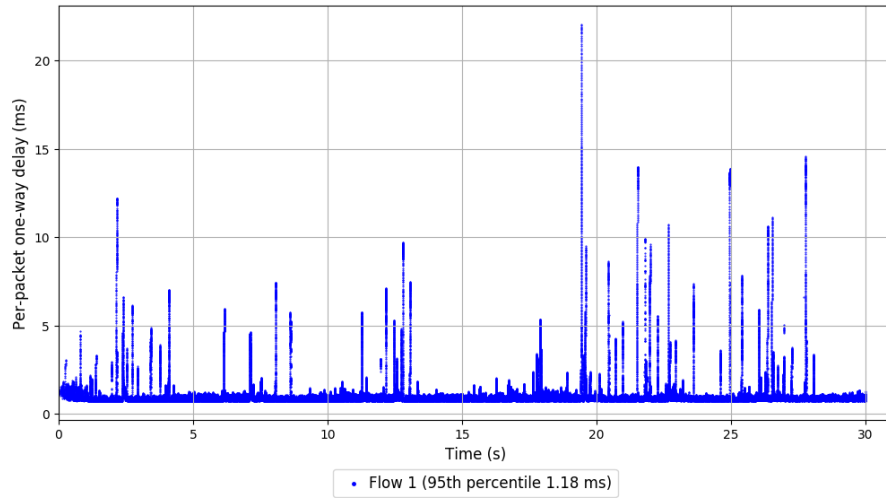
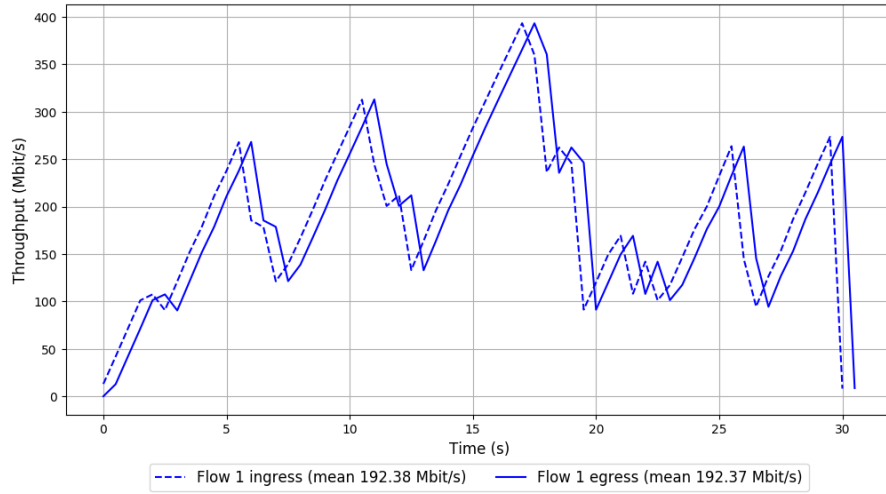
-- Flow 1:

Average throughput: 192.37 Mbit/s

95th percentile per-packet one-way delay: 1.177 ms

Loss rate: 0.01%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-11-23 23:33:03

End at: 2019-11-23 23:33:33

Local clock offset: 4.265 ms

Remote clock offset: 0.579 ms

Below is generated by plot.py at 2019-11-24 01:46:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 552.39 Mbit/s

95th percentile per-packet one-way delay: 19.049 ms

Loss rate: 0.03%

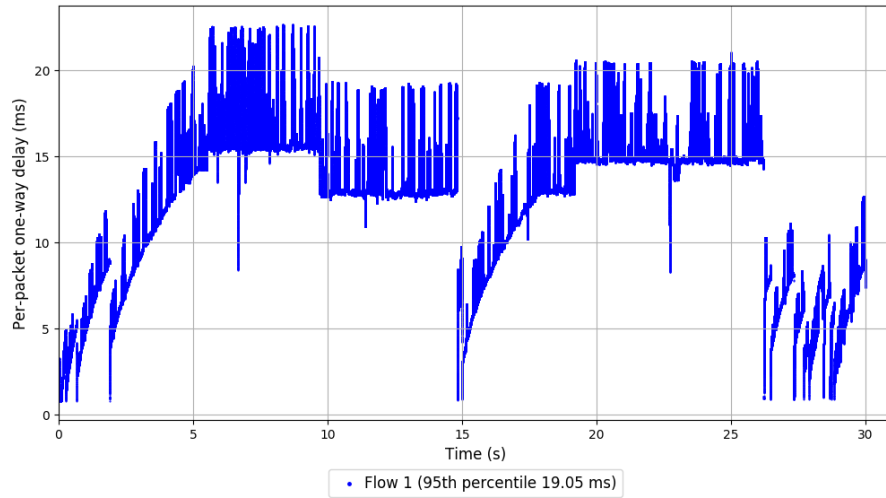
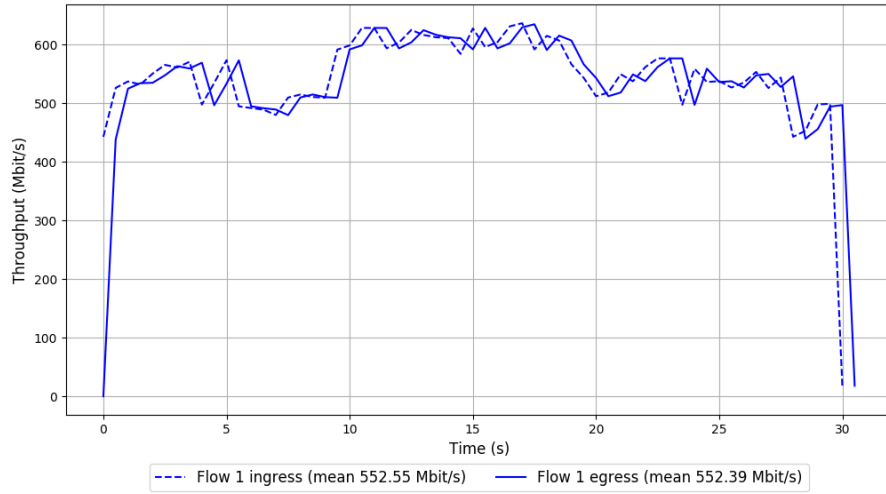
-- Flow 1:

Average throughput: 552.39 Mbit/s

95th percentile per-packet one-way delay: 19.049 ms

Loss rate: 0.03%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-11-24 00:06:15
End at: 2019-11-24 00:06:46
Local clock offset: 3.508 ms
Remote clock offset: -3.294 ms

Below is generated by plot.py at 2019-11-24 01:46:33

Datalink statistics

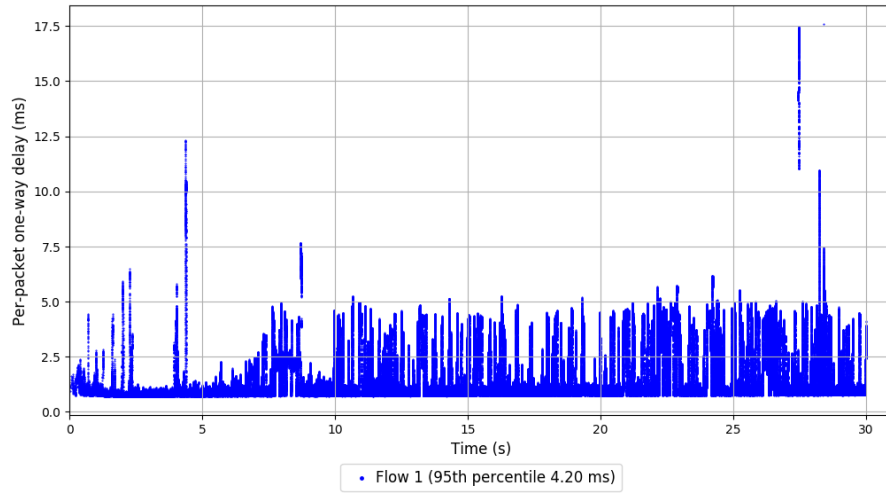
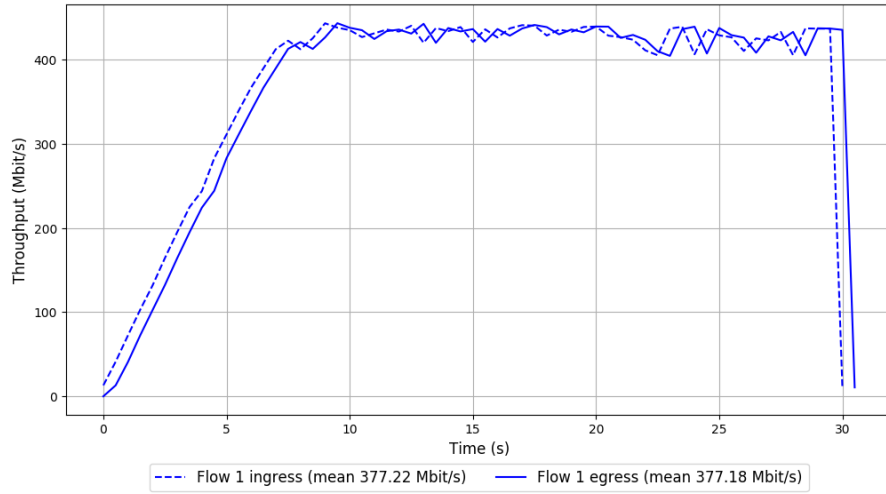
-- Total of 1 flow:

Average throughput: 377.18 Mbit/s
95th percentile per-packet one-way delay: 4.200 ms
Loss rate: 0.01%

-- Flow 1:

Average throughput: 377.18 Mbit/s
95th percentile per-packet one-way delay: 4.200 ms
Loss rate: 0.01%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-11-24 00:38:48

End at: 2019-11-24 00:39:18

Local clock offset: 3.6 ms

Remote clock offset: -1.836 ms

Below is generated by plot.py at 2019-11-24 01:47:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 535.95 Mbit/s

95th percentile per-packet one-way delay: 19.902 ms

Loss rate: 0.05%

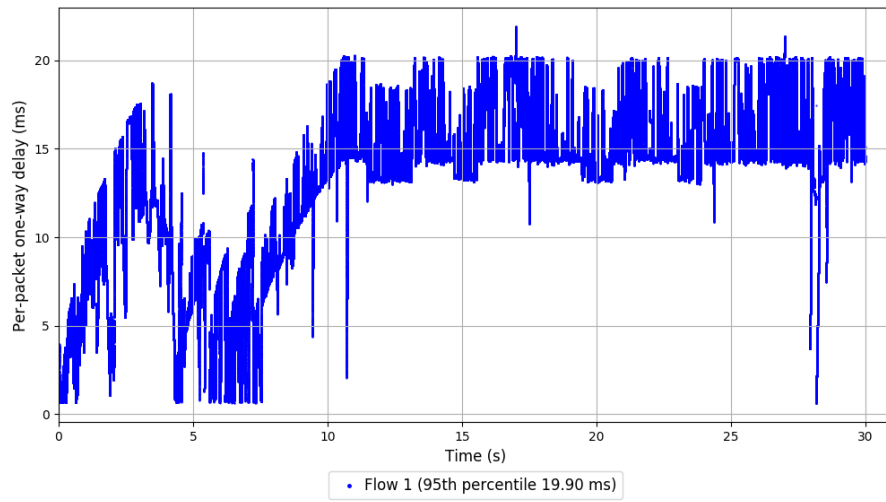
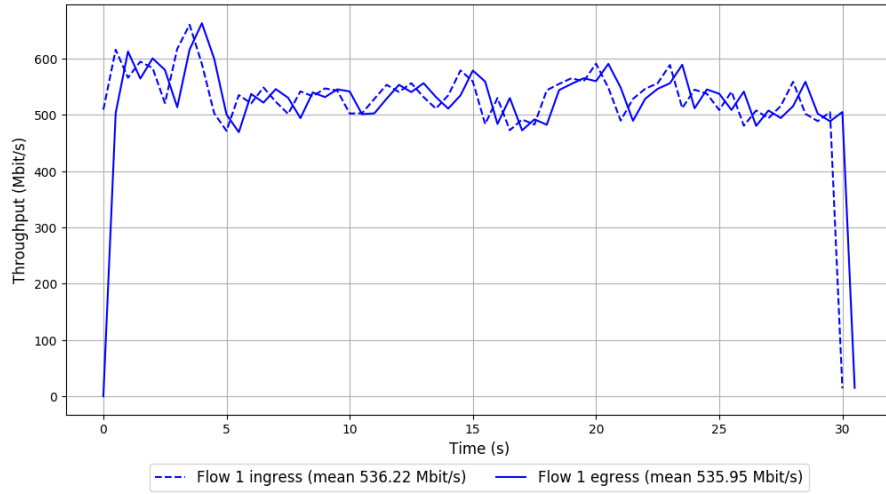
-- Flow 1:

Average throughput: 535.95 Mbit/s

95th percentile per-packet one-way delay: 19.902 ms

Loss rate: 0.05%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses_DecisionTree

Start at: 2019-11-23 22:39:20

End at: 2019-11-23 22:39:50

Local clock offset: 5.279 ms

Remote clock offset: 3.975 ms

Below is generated by plot.py at 2019-11-24 01:47:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.15 Mbit/s

95th percentile per-packet one-way delay: 1.115 ms

Loss rate: 0.00%

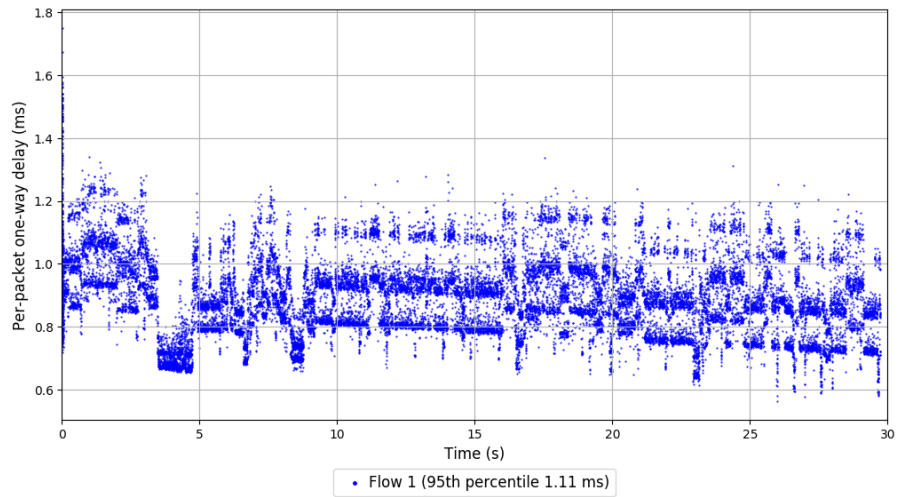
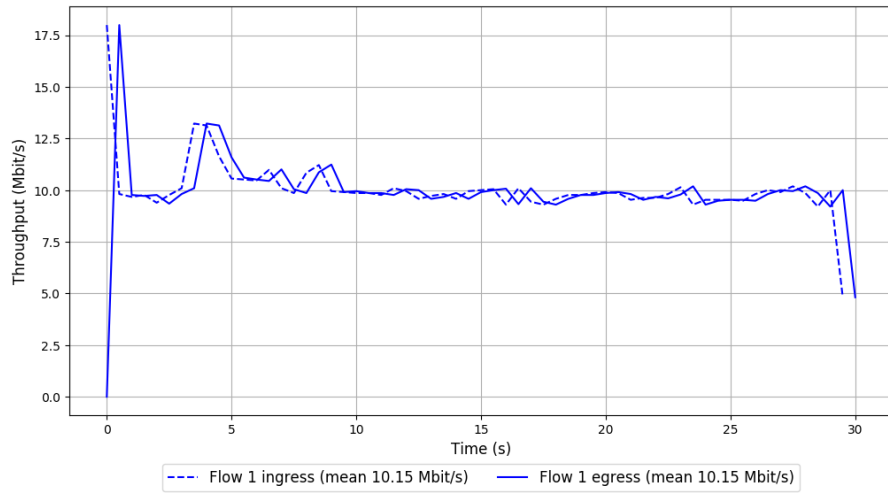
-- Flow 1:

Average throughput: 10.15 Mbit/s

95th percentile per-packet one-way delay: 1.115 ms

Loss rate: 0.00%

Run 1: Report of Muses_DecisionTree — Data Link



Run 2: Statistics of Muses_DecisionTree

Start at: 2019-11-23 23:12:24

End at: 2019-11-23 23:12:54

Local clock offset: 4.31 ms

Remote clock offset: 3.788 ms

Below is generated by plot.py at 2019-11-24 01:47:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 458.60 Mbit/s

95th percentile per-packet one-way delay: 2.857 ms

Loss rate: 0.00%

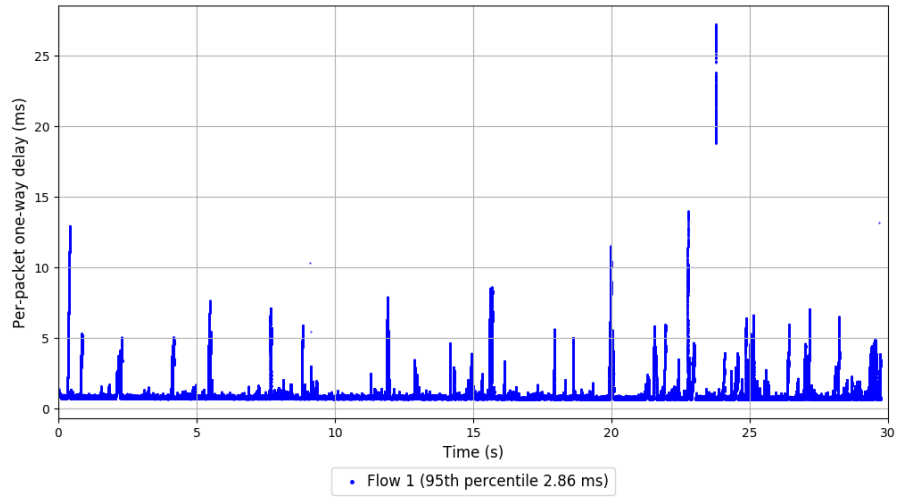
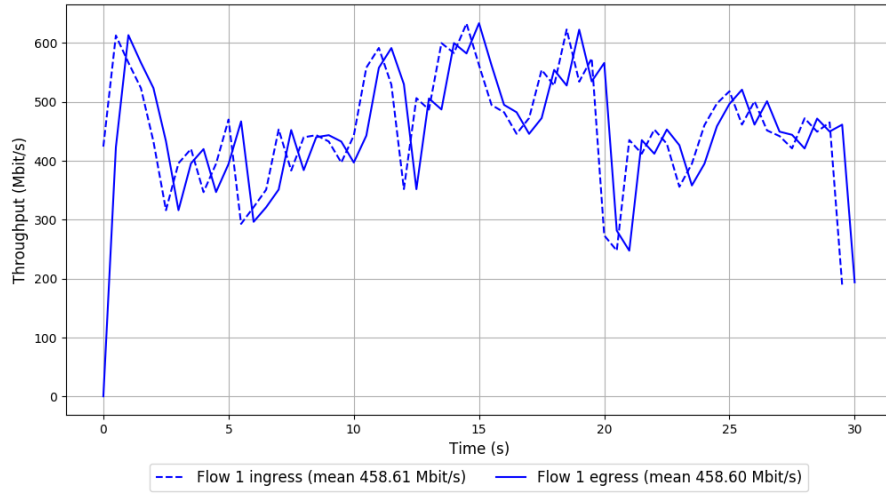
-- Flow 1:

Average throughput: 458.60 Mbit/s

95th percentile per-packet one-way delay: 2.857 ms

Loss rate: 0.00%

Run 2: Report of Muses_DecisionTree — Data Link

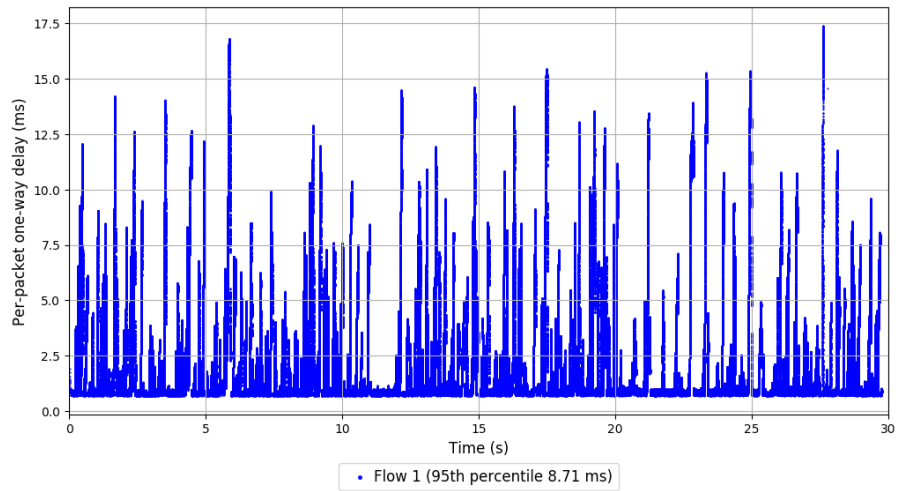
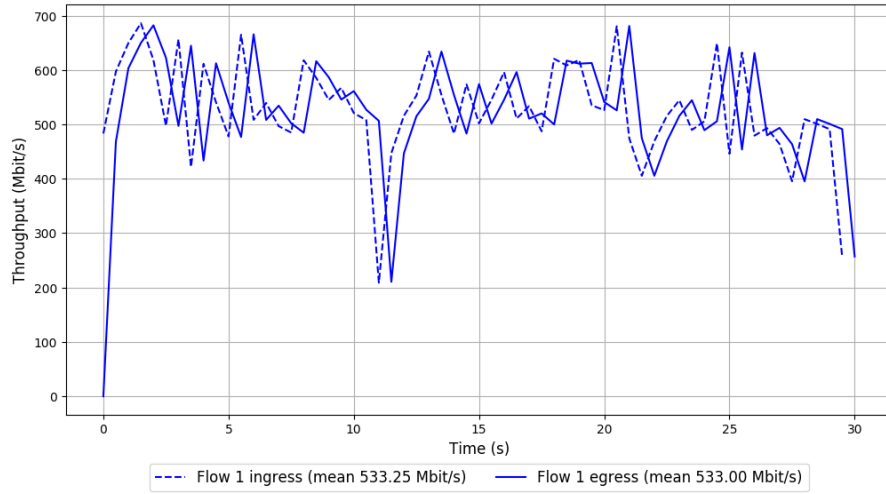


Run 3: Statistics of Muses_DecisionTree

Start at: 2019-11-23 23:45:47
End at: 2019-11-23 23:46:17
Local clock offset: 3.824 ms
Remote clock offset: -0.949 ms

Below is generated by plot.py at 2019-11-24 01:47:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 533.00 Mbit/s
95th percentile per-packet one-way delay: 8.710 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 533.00 Mbit/s
95th percentile per-packet one-way delay: 8.710 ms
Loss rate: 0.05%

Run 3: Report of Muses_DecisionTree — Data Link

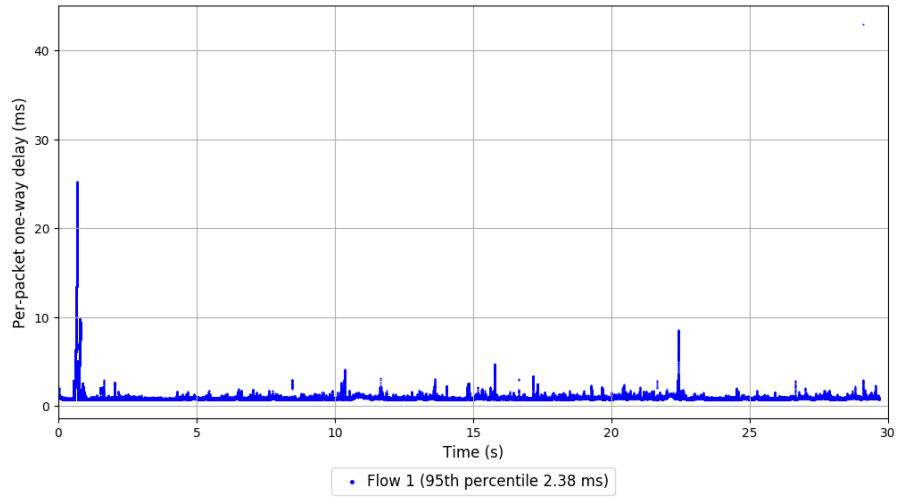
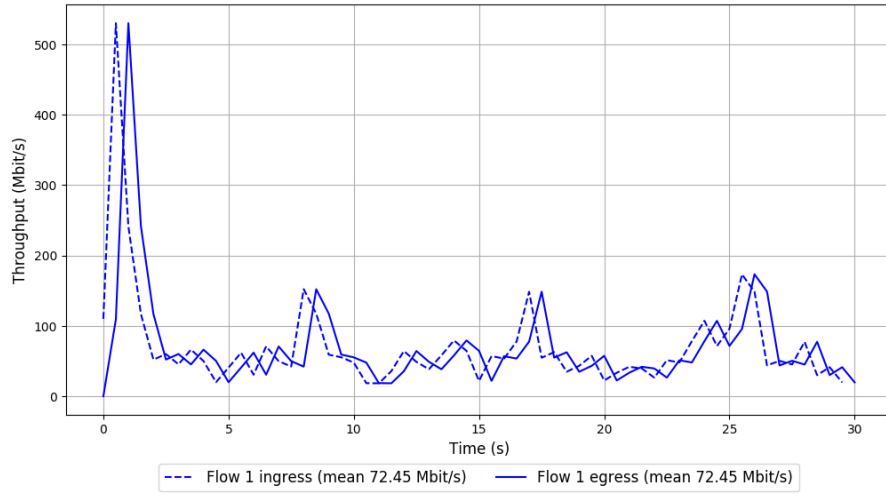


Run 4: Statistics of Muses_DecisionTree

Start at: 2019-11-24 00:18:20
End at: 2019-11-24 00:18:50
Local clock offset: 3.421 ms
Remote clock offset: -4.456 ms

Below is generated by plot.py at 2019-11-24 01:47:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 72.45 Mbit/s
95th percentile per-packet one-way delay: 2.379 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 72.45 Mbit/s
95th percentile per-packet one-way delay: 2.379 ms
Loss rate: 0.00%

Run 4: Report of Muses_DecisionTree — Data Link

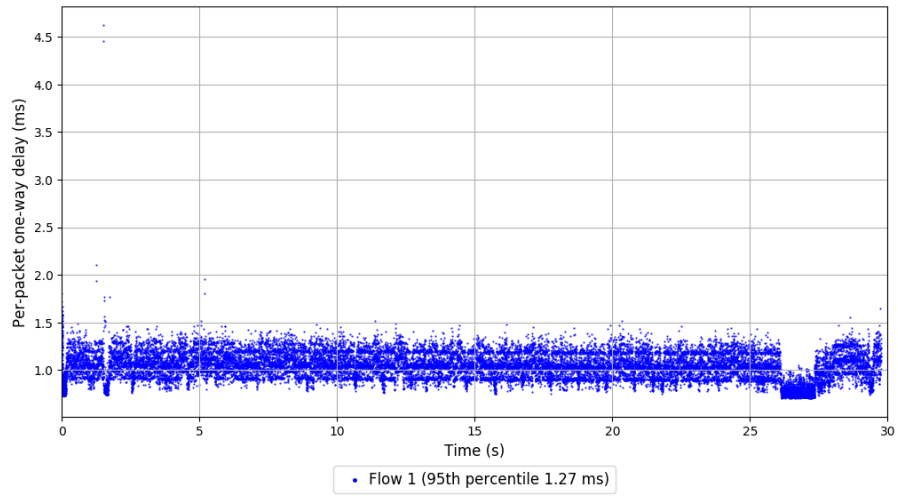
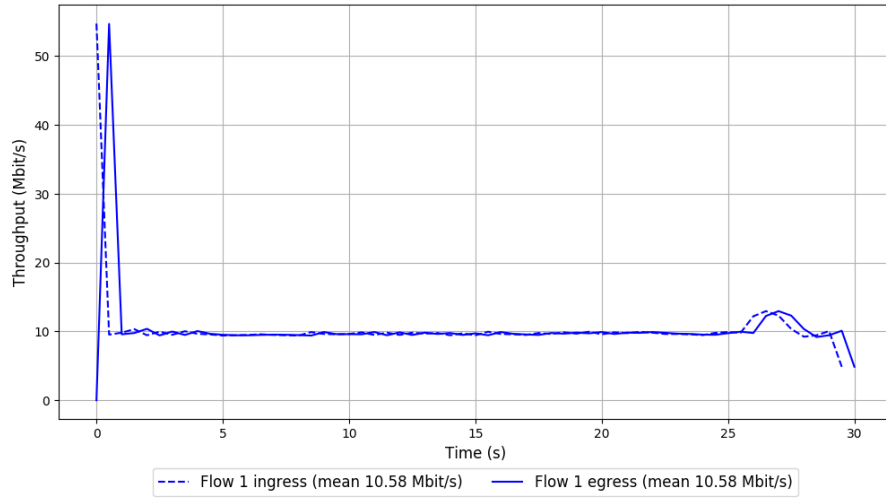


Run 5: Statistics of Muses_DecisionTree

Start at: 2019-11-24 00:51:27
End at: 2019-11-24 00:51:57
Local clock offset: 3.138 ms
Remote clock offset: -0.149 ms

Below is generated by plot.py at 2019-11-24 01:47:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 10.58 Mbit/s
95th percentile per-packet one-way delay: 1.274 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.58 Mbit/s
95th percentile per-packet one-way delay: 1.274 ms
Loss rate: 0.00%

Run 5: Report of Muses_DecisionTree — Data Link



Run 1: Statistics of Muses_DecisionTreeH0

Start at: 2019-11-23 22:34:43

End at: 2019-11-23 22:35:13

Local clock offset: 4.895 ms

Remote clock offset: 3.662 ms

Below is generated by plot.py at 2019-11-24 01:48:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 544.62 Mbit/s

95th percentile per-packet one-way delay: 7.522 ms

Loss rate: 0.00%

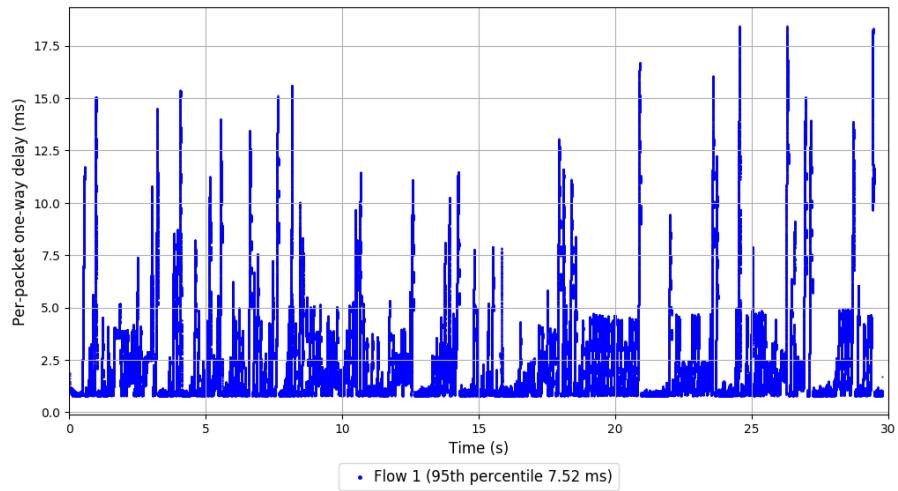
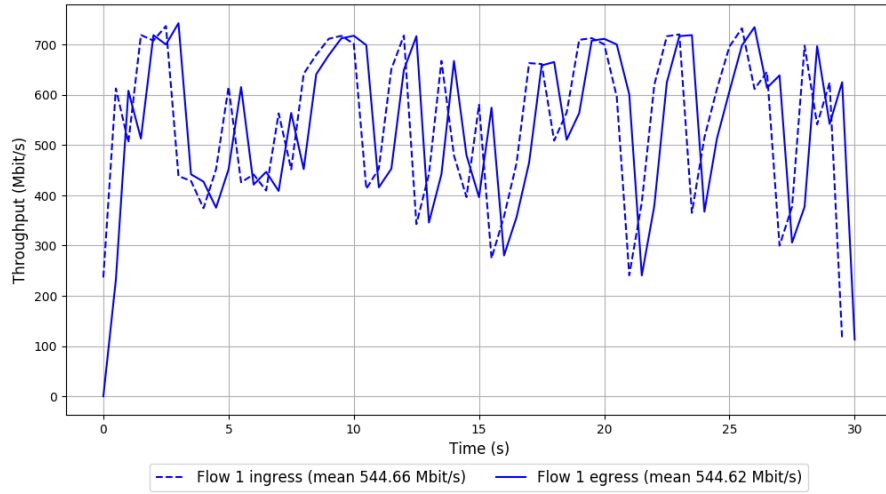
-- Flow 1:

Average throughput: 544.62 Mbit/s

95th percentile per-packet one-way delay: 7.522 ms

Loss rate: 0.00%

Run 1: Report of Muses_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2019-11-23 23:07:49

End at: 2019-11-23 23:08:19

Local clock offset: 4.452 ms

Remote clock offset: 3.77 ms

Below is generated by plot.py at 2019-11-24 01:48:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 482.97 Mbit/s

95th percentile per-packet one-way delay: 7.594 ms

Loss rate: 0.05%

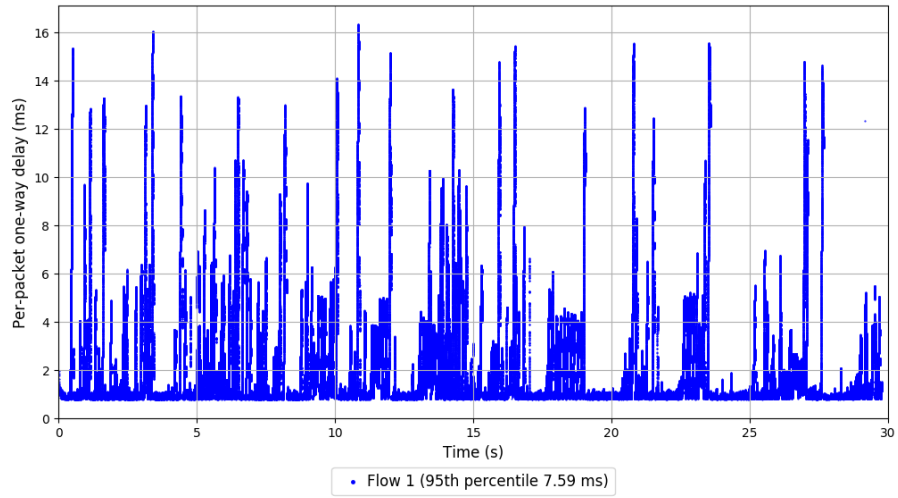
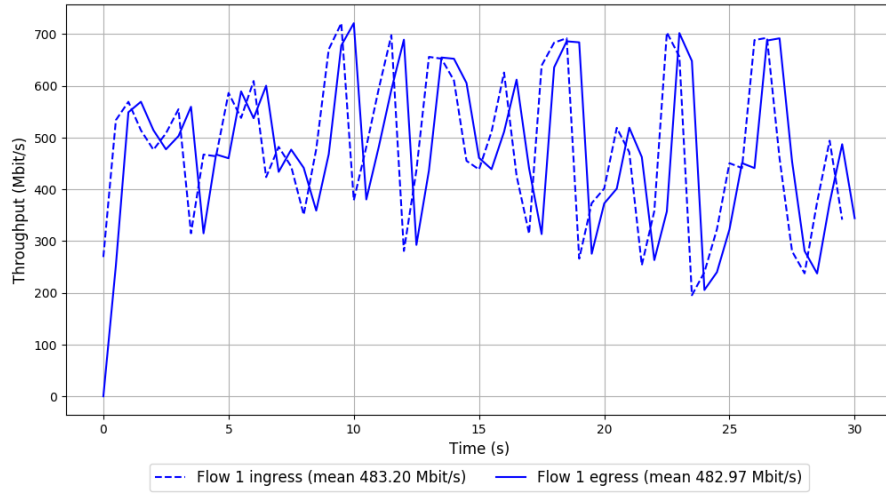
-- Flow 1:

Average throughput: 482.97 Mbit/s

95th percentile per-packet one-way delay: 7.594 ms

Loss rate: 0.05%

Run 2: Report of Muses_DecisionTreeH0 — Data Link

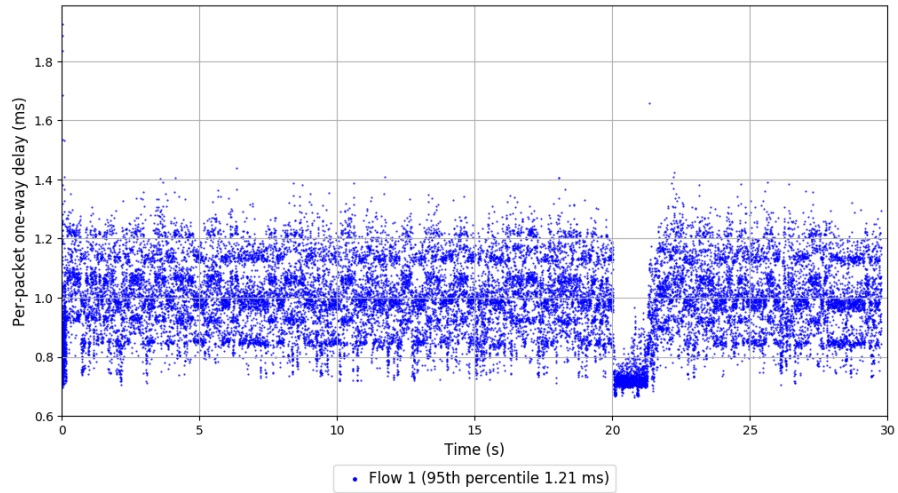
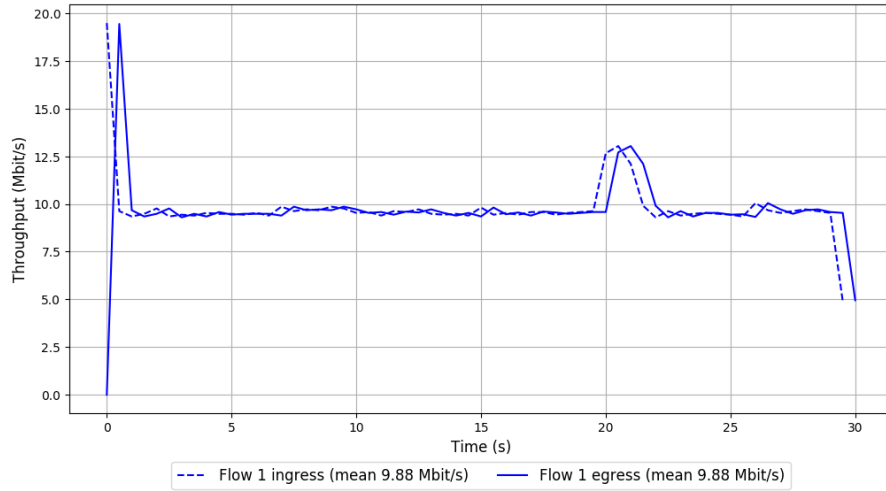


Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2019-11-23 23:41:33
End at: 2019-11-23 23:42:03
Local clock offset: 4.224 ms
Remote clock offset: -0.538 ms

Below is generated by plot.py at 2019-11-24 01:48:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.88 Mbit/s
95th percentile per-packet one-way delay: 1.214 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.88 Mbit/s
95th percentile per-packet one-way delay: 1.214 ms
Loss rate: 0.00%

Run 3: Report of Muses_DecisionTreeH0 — Data Link

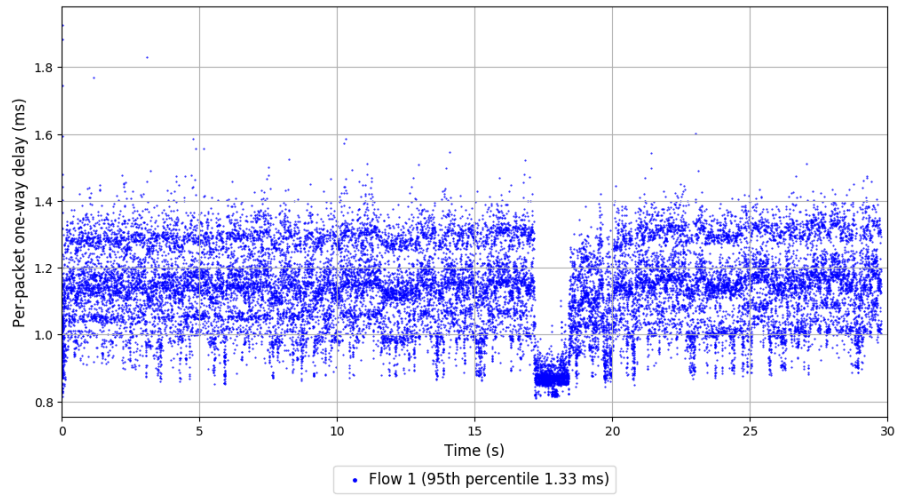
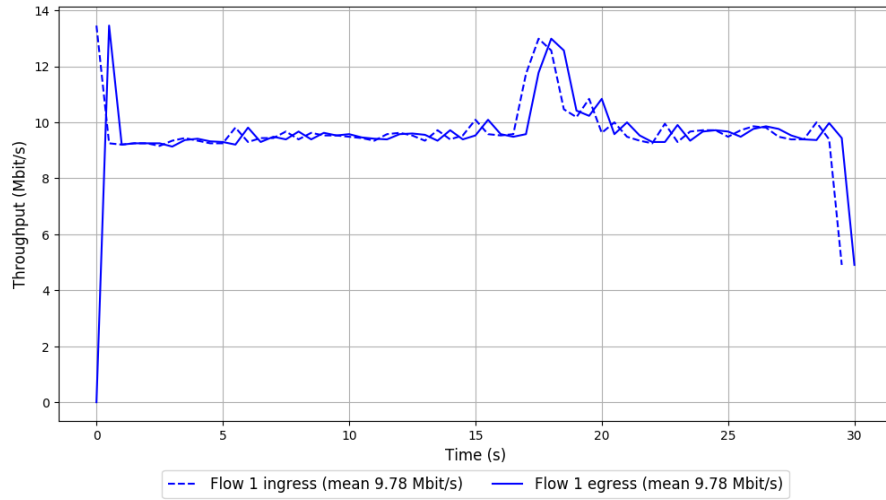


Run 4: Statistics of Muses_DecisionTreeH0

Start at: 2019-11-24 00:14:06
End at: 2019-11-24 00:14:36
Local clock offset: 3.438 ms
Remote clock offset: -4.031 ms

Below is generated by plot.py at 2019-11-24 01:48:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.78 Mbit/s
95th percentile per-packet one-way delay: 1.332 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.78 Mbit/s
95th percentile per-packet one-way delay: 1.332 ms
Loss rate: 0.00%

Run 4: Report of Muses_DecisionTreeH0 — Data Link

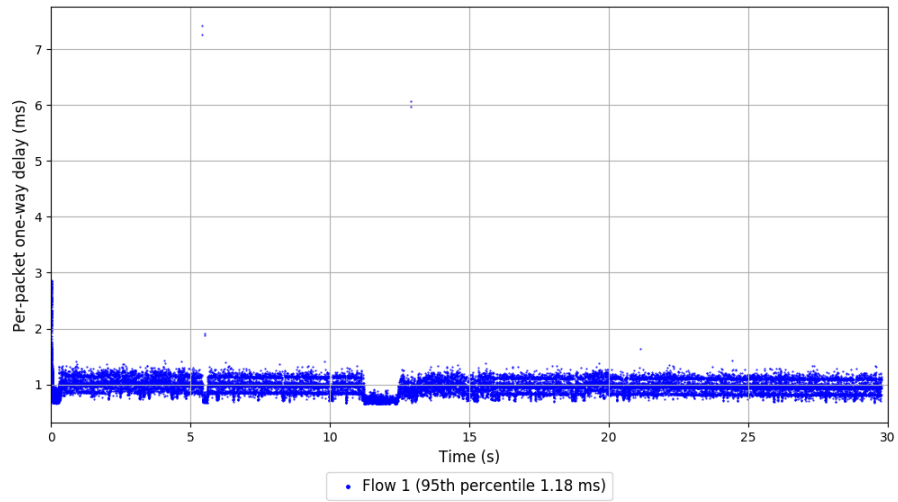
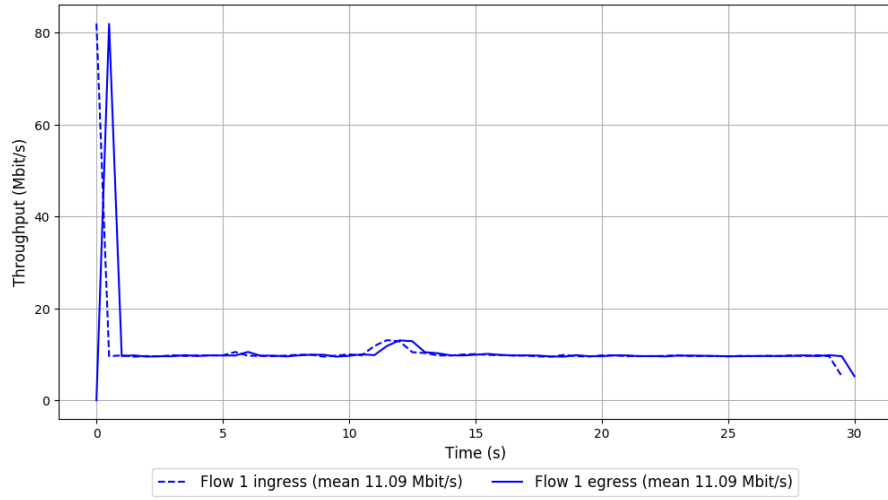


Run 5: Statistics of Muses_DecisionTreeH0

Start at: 2019-11-24 00:47:12
End at: 2019-11-24 00:47:42
Local clock offset: 3.26 ms
Remote clock offset: -0.482 ms

Below is generated by plot.py at 2019-11-24 01:48:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 11.09 Mbit/s
95th percentile per-packet one-way delay: 1.179 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.09 Mbit/s
95th percentile per-packet one-way delay: 1.179 ms
Loss rate: 0.00%

Run 5: Report of Muses_DecisionTreeH0 — Data Link



Run 1: Statistics of Muses_DecisionTreeR0

Start at: 2019-11-23 22:14:24
End at: 2019-11-23 22:14:54
Local clock offset: 3.325 ms
Remote clock offset: -0.048 ms

Below is generated by plot.py at 2019-11-24 01:48:38

Datalink statistics

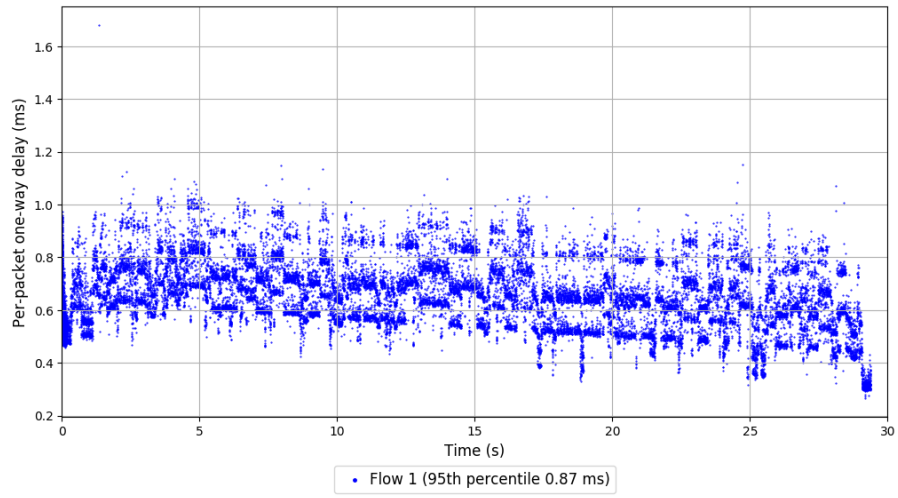
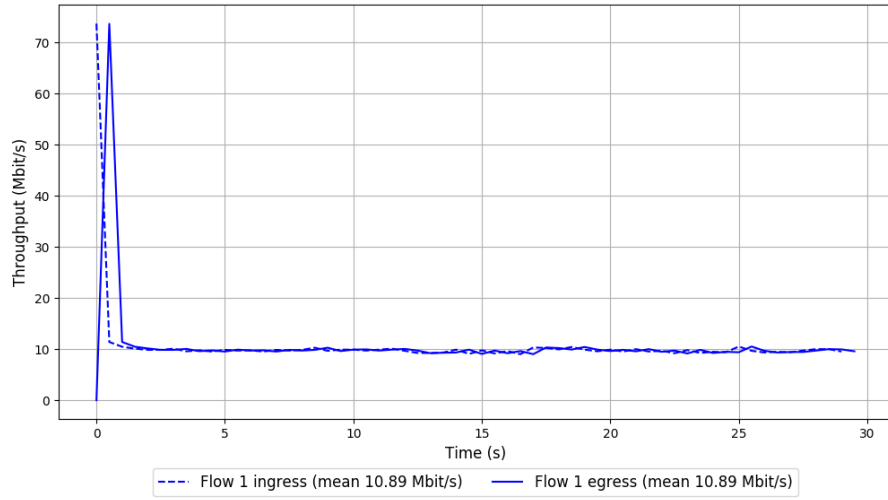
-- Total of 1 flow:

Average throughput: 10.89 Mbit/s
95th percentile per-packet one-way delay: 0.867 ms
Loss rate: 0.00%

-- Flow 1:

Average throughput: 10.89 Mbit/s
95th percentile per-packet one-way delay: 0.867 ms
Loss rate: 0.00%

Run 1: Report of Muses_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2019-11-23 22:47:31

End at: 2019-11-23 22:48:01

Local clock offset: 4.29 ms

Remote clock offset: 4.587 ms

Below is generated by plot.py at 2019-11-24 01:49:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 557.09 Mbit/s

95th percentile per-packet one-way delay: 6.388 ms

Loss rate: 0.01%

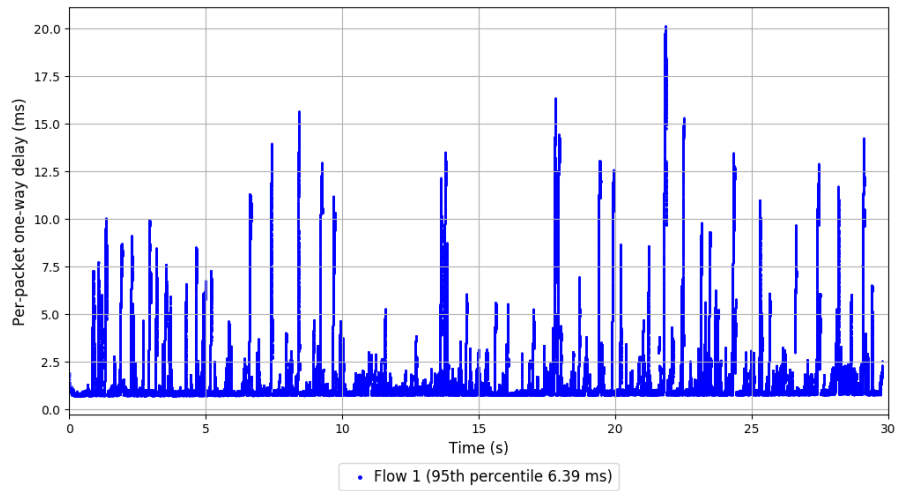
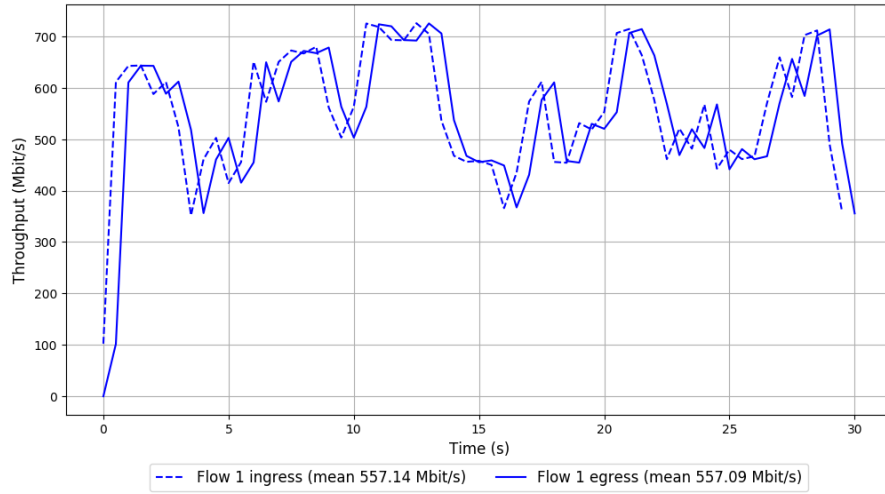
-- Flow 1:

Average throughput: 557.09 Mbit/s

95th percentile per-packet one-way delay: 6.388 ms

Loss rate: 0.01%

Run 2: Report of Muses_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-11-23 23:20:52

End at: 2019-11-23 23:21:22

Local clock offset: 4.065 ms

Remote clock offset: 3.99 ms

Below is generated by plot.py at 2019-11-24 01:49:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.37 Mbit/s

95th percentile per-packet one-way delay: 1.225 ms

Loss rate: 0.00%

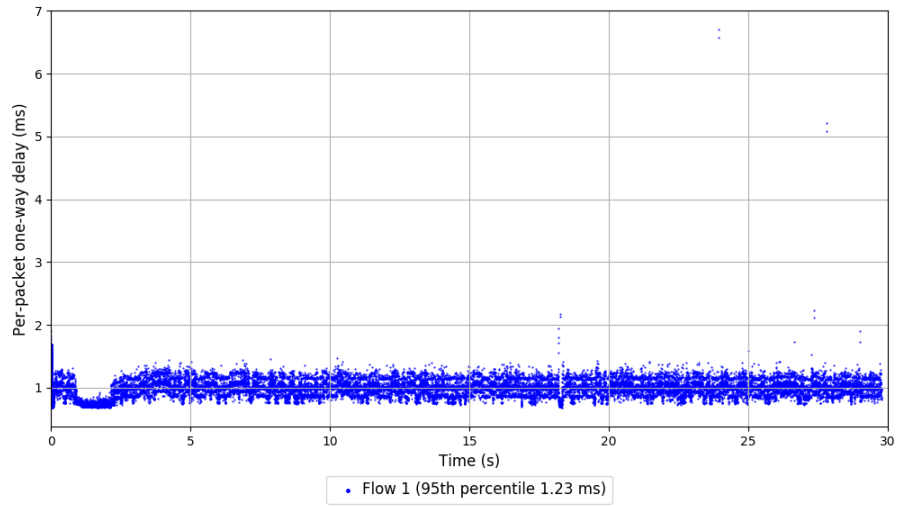
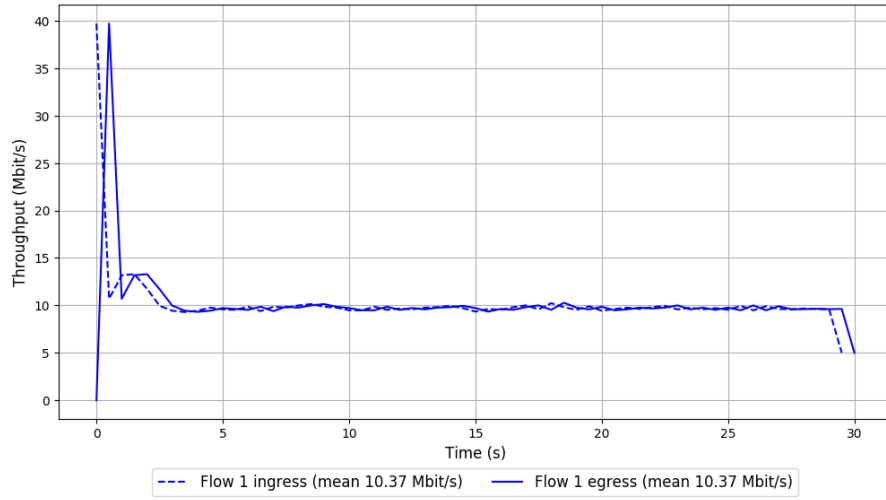
-- Flow 1:

Average throughput: 10.37 Mbit/s

95th percentile per-packet one-way delay: 1.225 ms

Loss rate: 0.00%

Run 3: Report of Muses_DecisionTreeR0 — Data Link

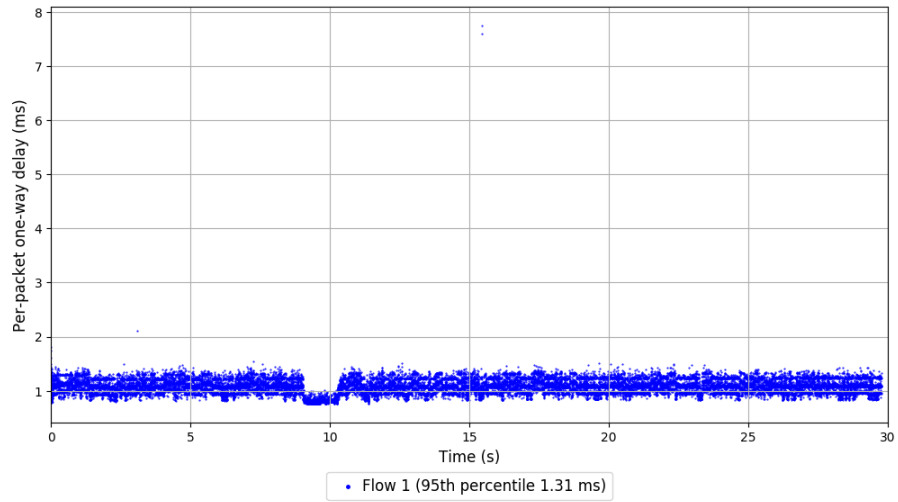
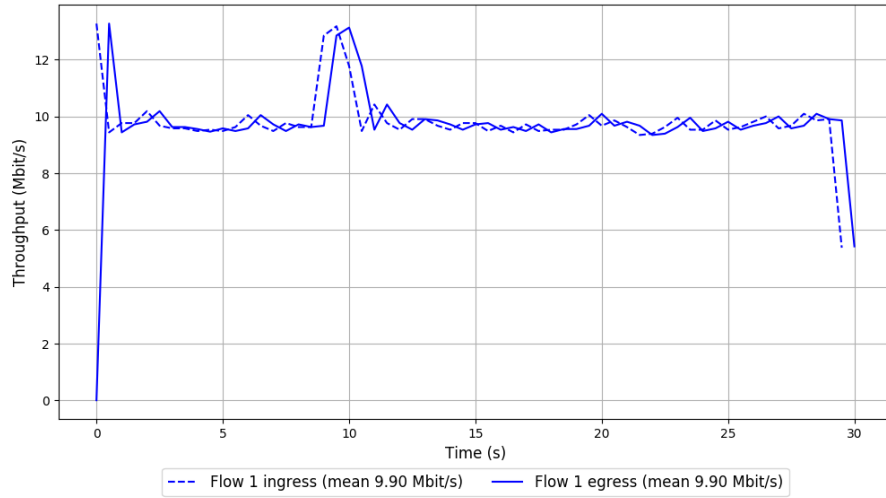


Run 4: Statistics of Muses_DecisionTreeR0

Start at: 2019-11-23 23:54:14
End at: 2019-11-23 23:54:44
Local clock offset: 3.526 ms
Remote clock offset: -1.465 ms

Below is generated by plot.py at 2019-11-24 01:49:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.90 Mbit/s
95th percentile per-packet one-way delay: 1.306 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.90 Mbit/s
95th percentile per-packet one-way delay: 1.306 ms
Loss rate: 0.00%

Run 4: Report of Muses_DecisionTreeR0 — Data Link

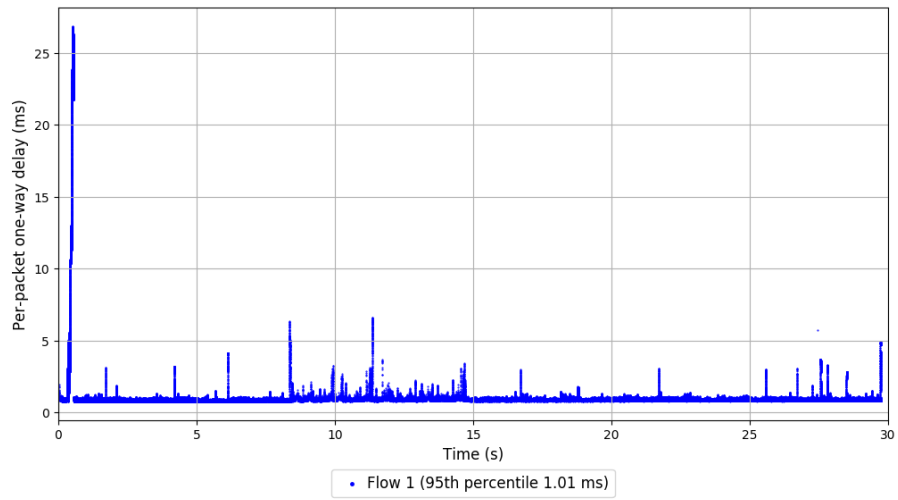
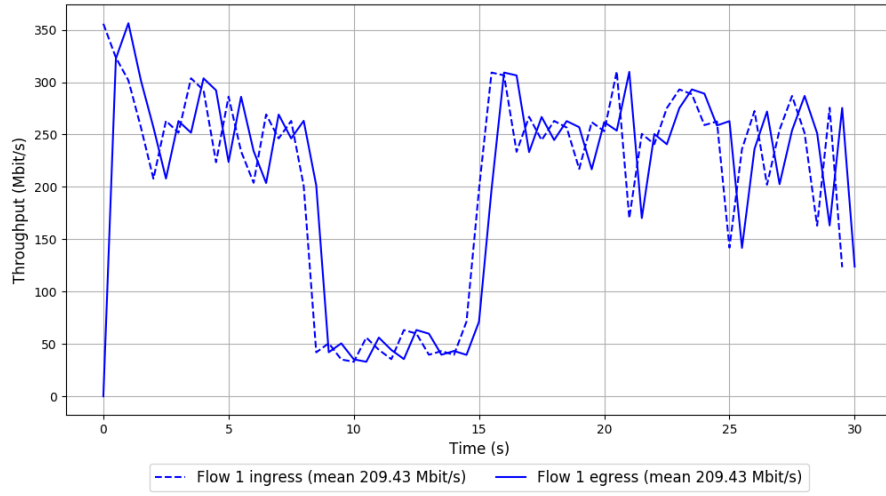


Run 5: Statistics of Muses_DecisionTreeR0

Start at: 2019-11-24 00:26:32
End at: 2019-11-24 00:27:02
Local clock offset: 3.477 ms
Remote clock offset: -5.089 ms

Below is generated by plot.py at 2019-11-24 01:49:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 209.43 Mbit/s
95th percentile per-packet one-way delay: 1.012 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 209.43 Mbit/s
95th percentile per-packet one-way delay: 1.012 ms
Loss rate: 0.00%

Run 5: Report of Muses_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-11-23 22:37:48

End at: 2019-11-23 22:38:18

Local clock offset: 5.179 ms

Remote clock offset: 3.901 ms

Below is generated by plot.py at 2019-11-24 01:56:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 816.34 Mbit/s

95th percentile per-packet one-way delay: 92.625 ms

Loss rate: 2.40%

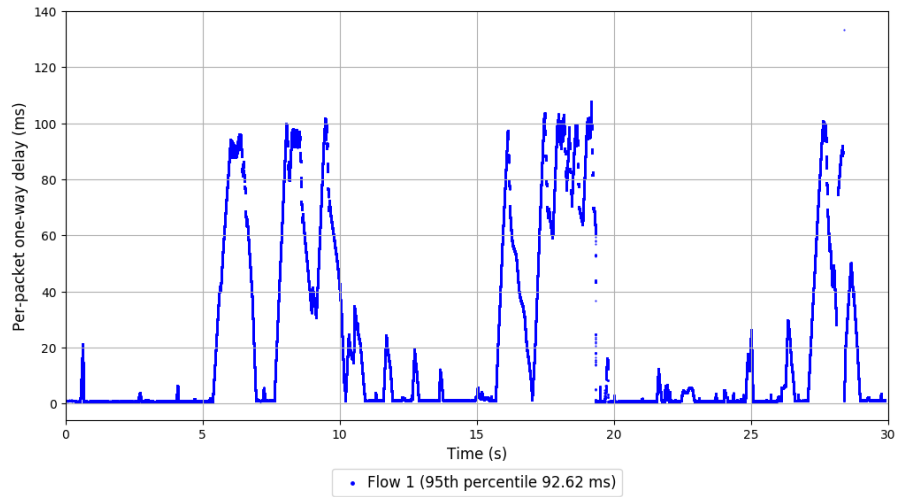
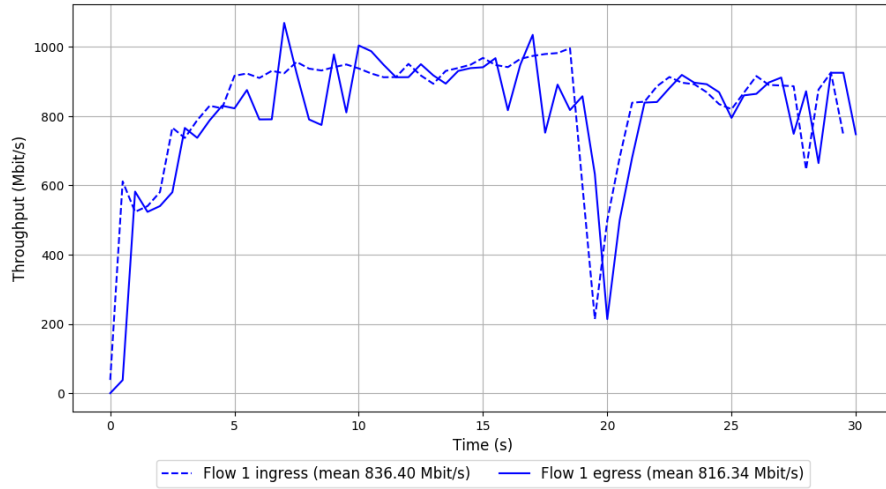
-- Flow 1:

Average throughput: 816.34 Mbit/s

95th percentile per-packet one-way delay: 92.625 ms

Loss rate: 2.40%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-11-23 23:10:53

End at: 2019-11-23 23:11:23

Local clock offset: 4.435 ms

Remote clock offset: 3.767 ms

Below is generated by plot.py at 2019-11-24 01:56:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 830.58 Mbit/s

95th percentile per-packet one-way delay: 77.227 ms

Loss rate: 1.83%

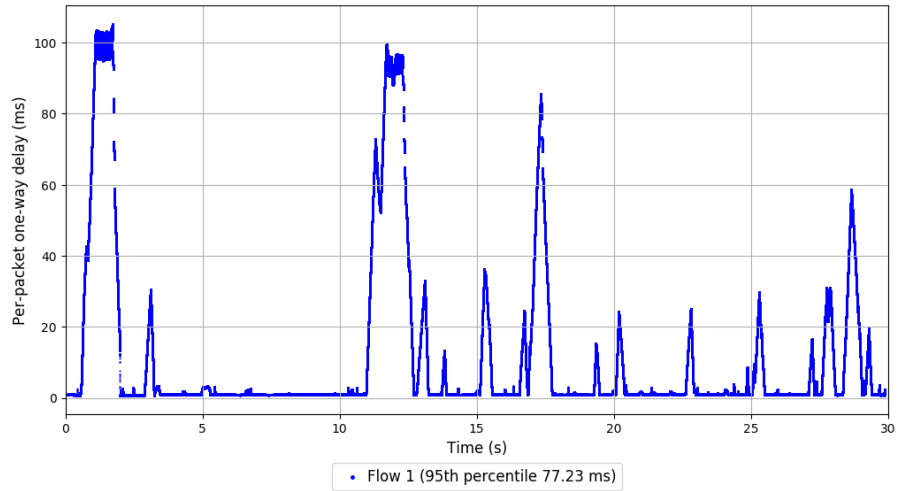
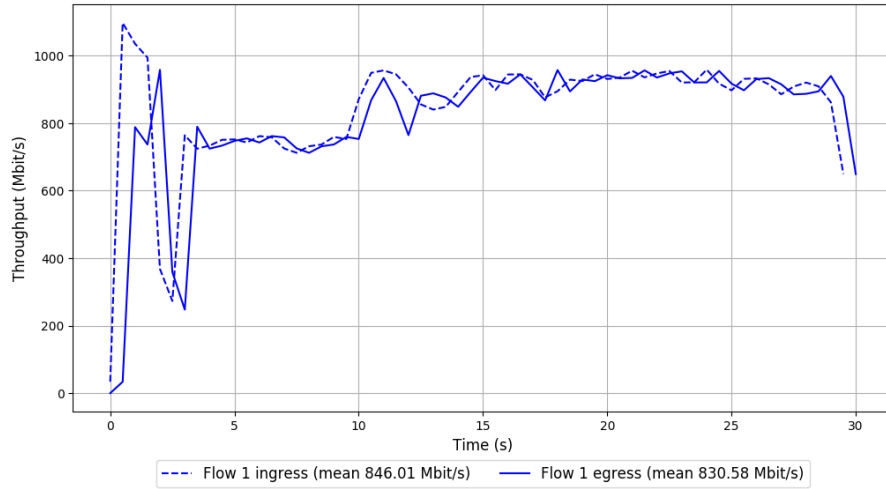
-- Flow 1:

Average throughput: 830.58 Mbit/s

95th percentile per-packet one-way delay: 77.227 ms

Loss rate: 1.83%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-11-23 23:44:21

End at: 2019-11-23 23:44:51

Local clock offset: 3.942 ms

Remote clock offset: -0.896 ms

Below is generated by plot.py at 2019-11-24 01:56:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 593.50 Mbit/s

95th percentile per-packet one-way delay: 12.258 ms

Loss rate: 0.00%

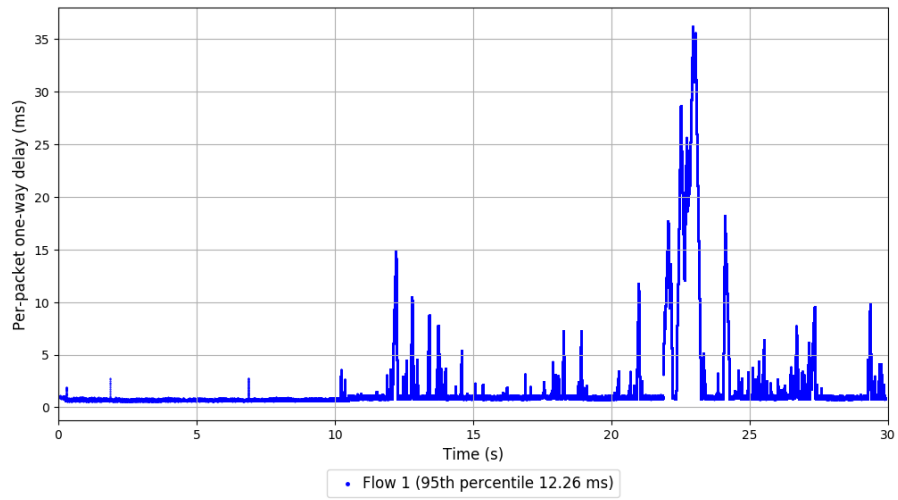
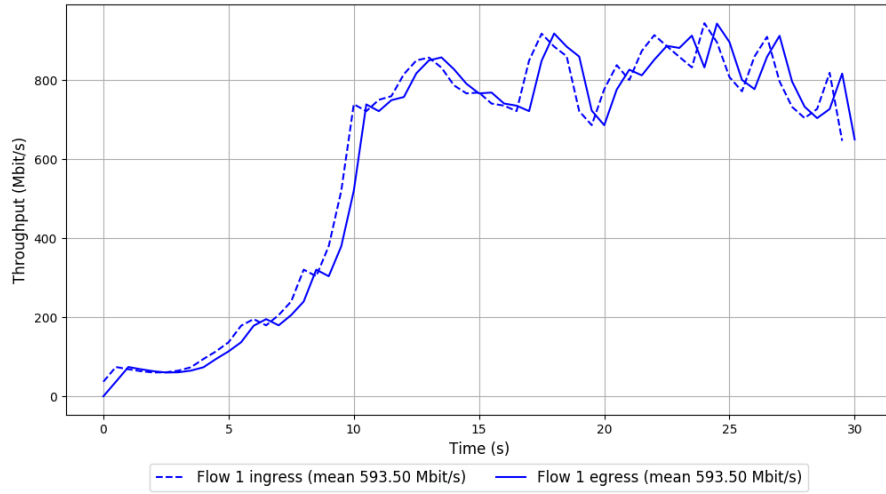
-- Flow 1:

Average throughput: 593.50 Mbit/s

95th percentile per-packet one-way delay: 12.258 ms

Loss rate: 0.00%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-11-24 00:16:49

End at: 2019-11-24 00:17:19

Local clock offset: 3.455 ms

Remote clock offset: -4.317 ms

Below is generated by plot.py at 2019-11-24 01:56:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 781.52 Mbit/s

95th percentile per-packet one-way delay: 20.436 ms

Loss rate: 0.25%

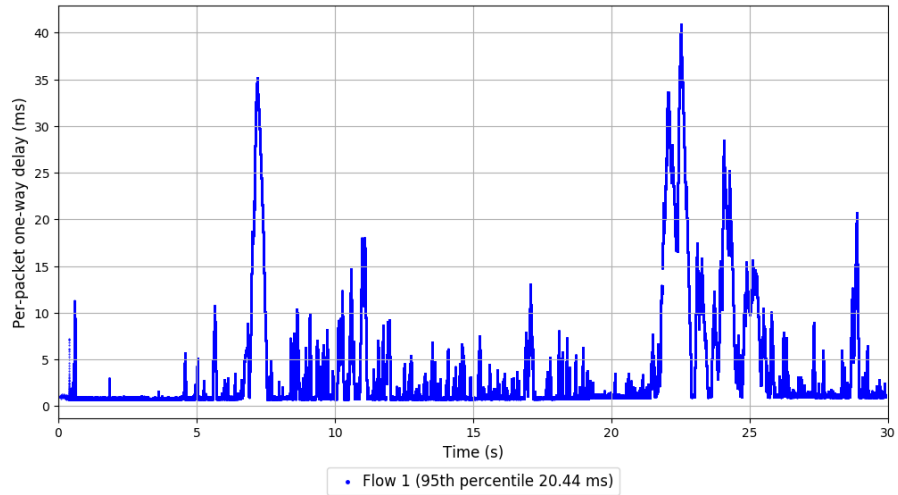
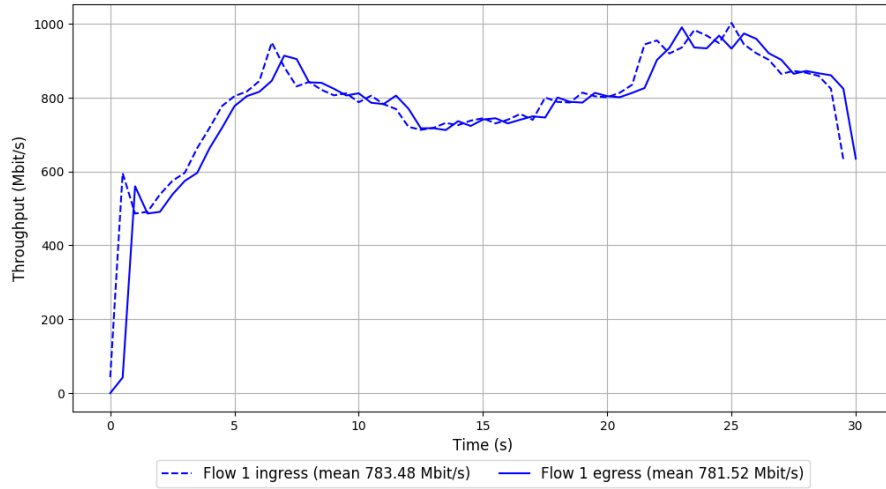
-- Flow 1:

Average throughput: 781.52 Mbit/s

95th percentile per-packet one-way delay: 20.436 ms

Loss rate: 0.25%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-11-24 00:49:56

End at: 2019-11-24 00:50:26

Local clock offset: 3.185 ms

Remote clock offset: -0.254 ms

Below is generated by plot.py at 2019-11-24 01:56:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 789.99 Mbit/s

95th percentile per-packet one-way delay: 54.129 ms

Loss rate: 0.27%

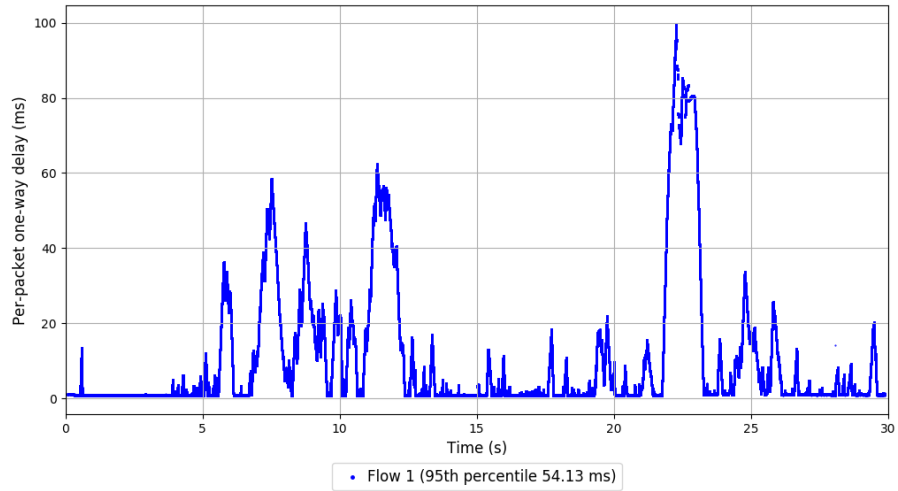
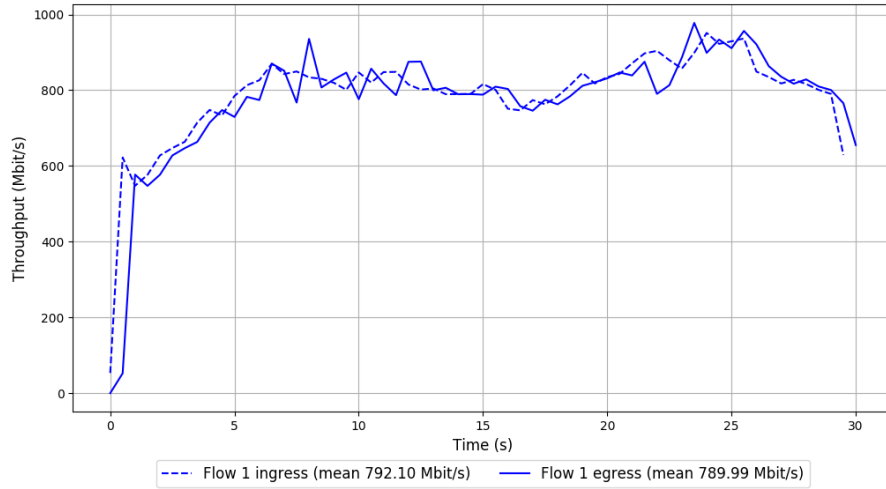
-- Flow 1:

Average throughput: 789.99 Mbit/s

95th percentile per-packet one-way delay: 54.129 ms

Loss rate: 0.27%

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2019-11-23 22:21:01

End at: 2019-11-23 22:21:31

Local clock offset: 3.617 ms

Remote clock offset: 1.816 ms

Below is generated by plot.py at 2019-11-24 01:56:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.10 Mbit/s

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

Loss rate: 48.66%

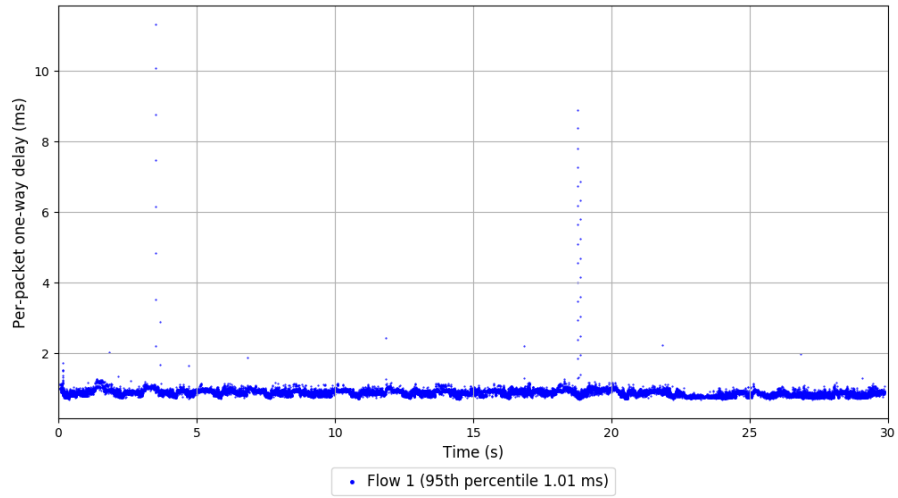
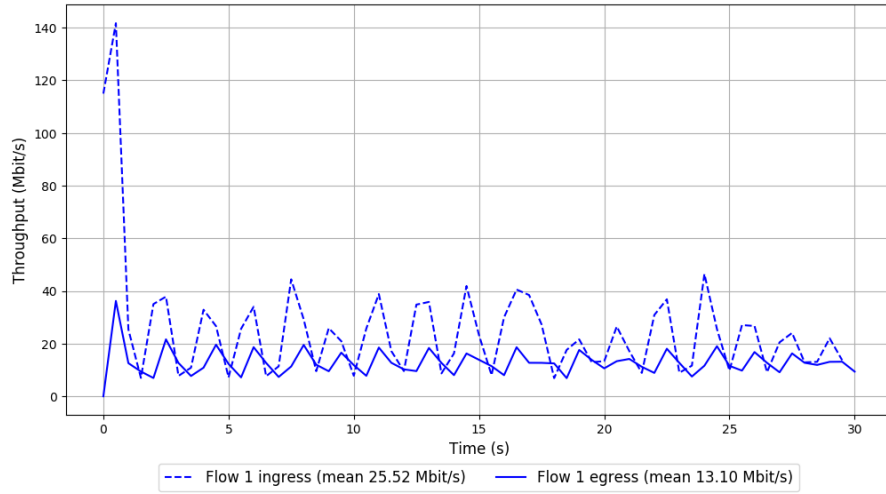
-- Flow 1:

Average throughput: 13.10 Mbit/s

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

Loss rate: 48.66%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-11-23 22:54:34

End at: 2019-11-23 22:55:04

Local clock offset: 4.098 ms

Remote clock offset: 3.887 ms

Below is generated by plot.py at 2019-11-24 01:56:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.10 Mbit/s

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

Loss rate: 52.92%

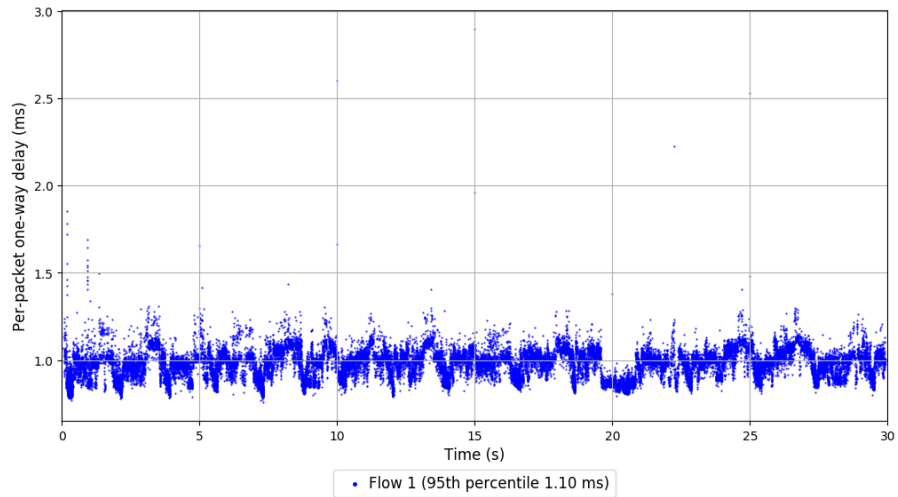
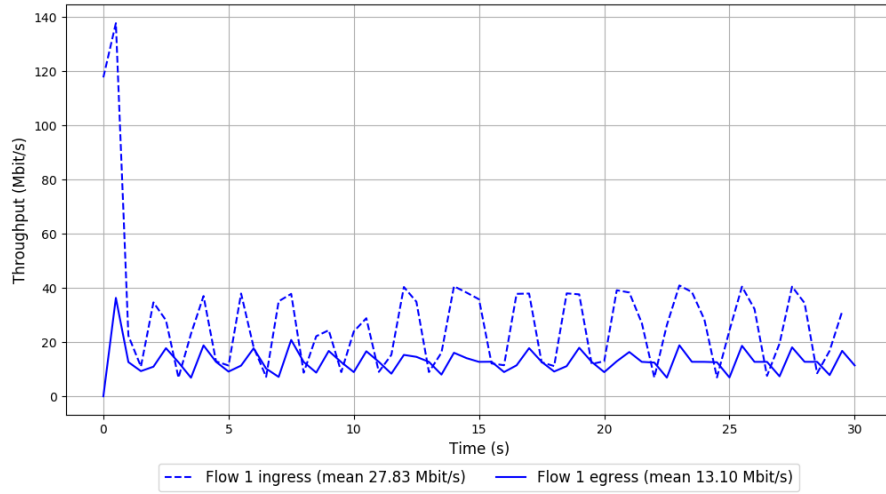
-- Flow 1:

Average throughput: 13.10 Mbit/s

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

Loss rate: 52.92%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-11-23 23:27:35

End at: 2019-11-23 23:28:05

Local clock offset: 4.126 ms

Remote clock offset: 1.806 ms

Below is generated by plot.py at 2019-11-24 01:56:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.10 Mbit/s

95th percentile per-packet one-way delay: 1.263 ms

Loss rate: 45.27%

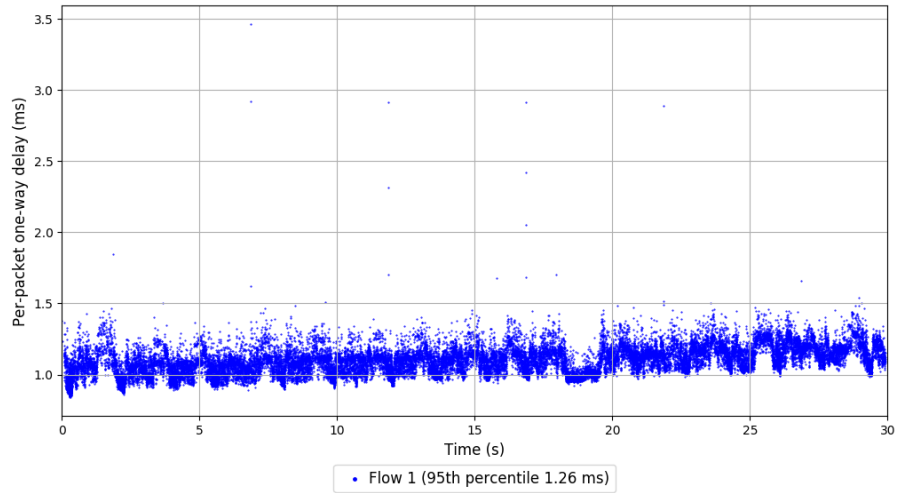
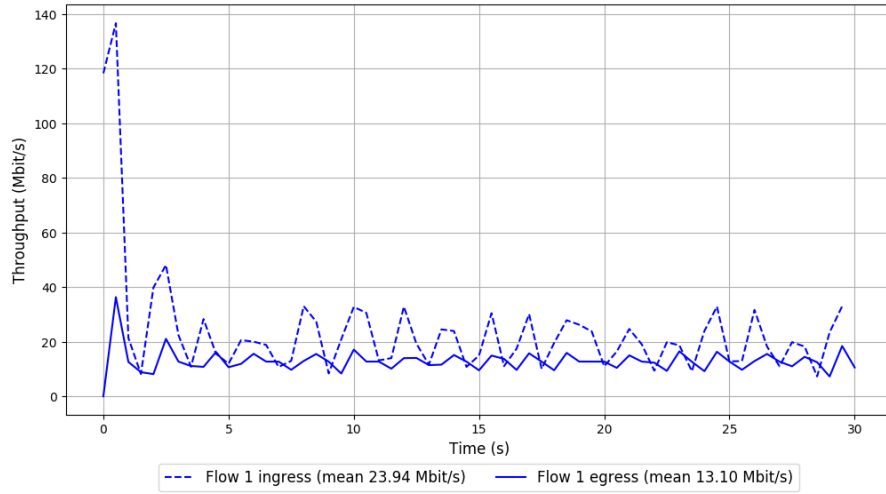
-- Flow 1:

Average throughput: 13.10 Mbit/s

95th percentile per-packet one-way delay: 1.263 ms

Loss rate: 45.27%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-11-24 00:00:56

End at: 2019-11-24 00:01:26

Local clock offset: 3.452 ms

Remote clock offset: -2.529 ms

Below is generated by plot.py at 2019-11-24 01:56:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.69 Mbit/s

95th percentile per-packet one-way delay: 1.334 ms

Loss rate: 14.94%

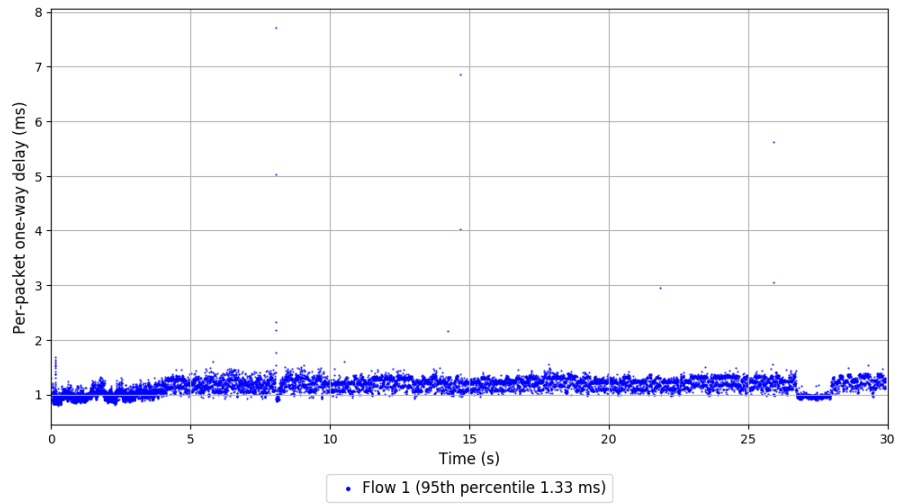
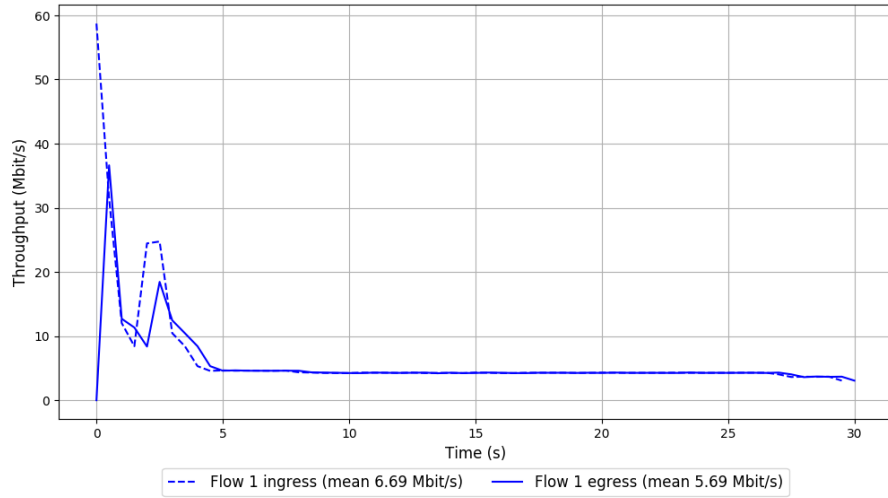
-- Flow 1:

Average throughput: 5.69 Mbit/s

95th percentile per-packet one-way delay: 1.334 ms

Loss rate: 14.94%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-11-24 00:33:24

End at: 2019-11-24 00:33:54

Local clock offset: 3.522 ms

Remote clock offset: -3.64 ms

Below is generated by plot.py at 2019-11-24 01:56:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.02 Mbit/s

95th percentile per-packet one-way delay: 0.893 ms

Loss rate: 35.55%

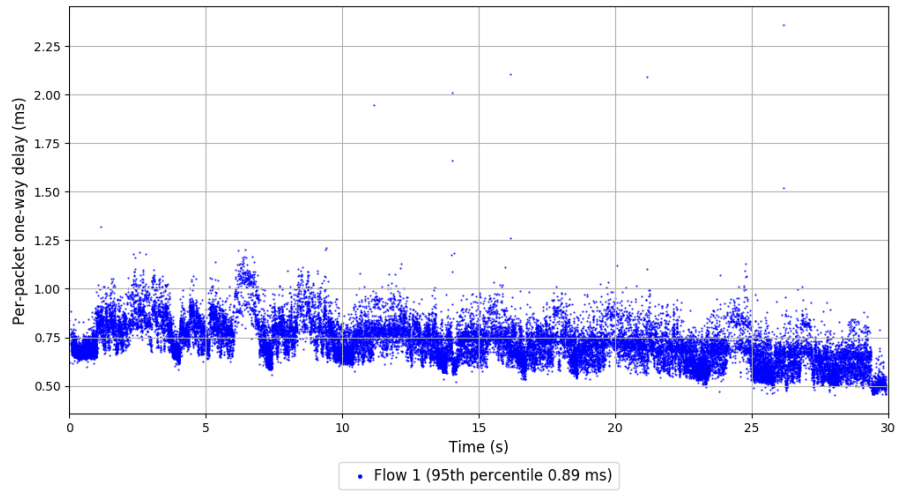
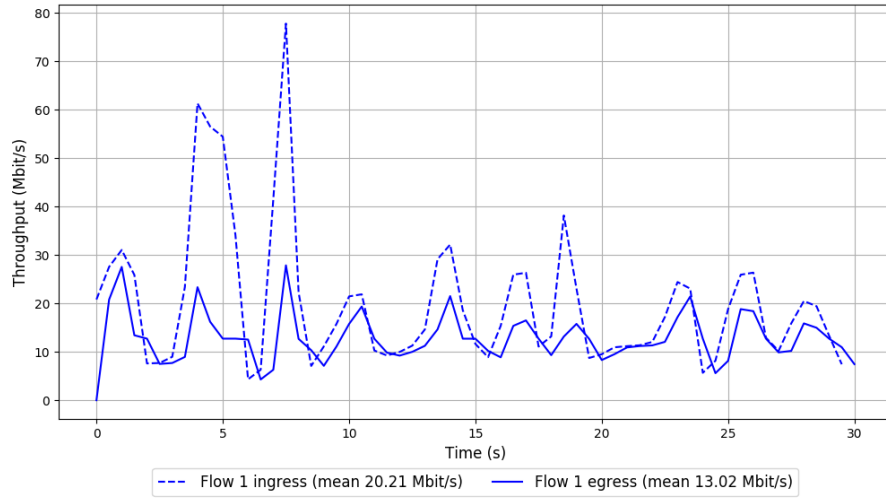
-- Flow 1:

Average throughput: 13.02 Mbit/s

95th percentile per-packet one-way delay: 0.893 ms

Loss rate: 35.55%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-11-23 22:22:14

End at: 2019-11-23 22:22:44

Local clock offset: 3.761 ms

Remote clock offset: 2.12 ms

Below is generated by plot.py at 2019-11-24 01:56:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.50 Mbit/s

95th percentile per-packet one-way delay: 0.887 ms

Loss rate: 0.00%

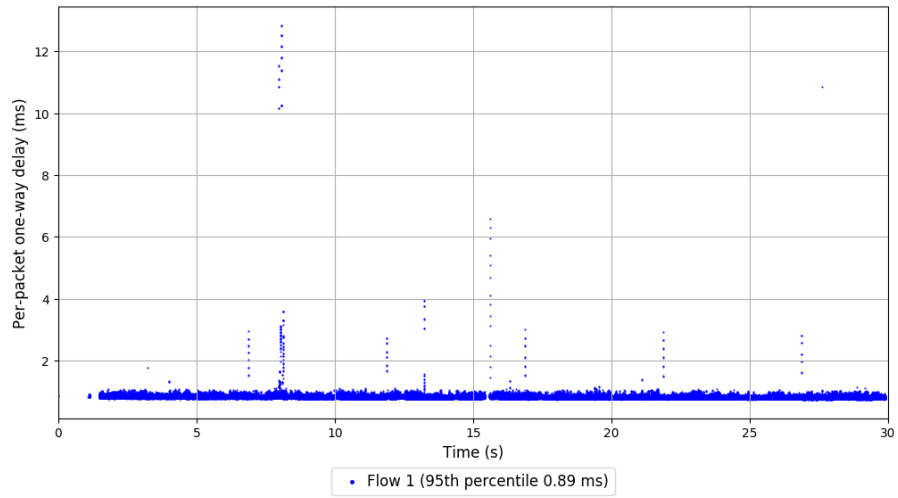
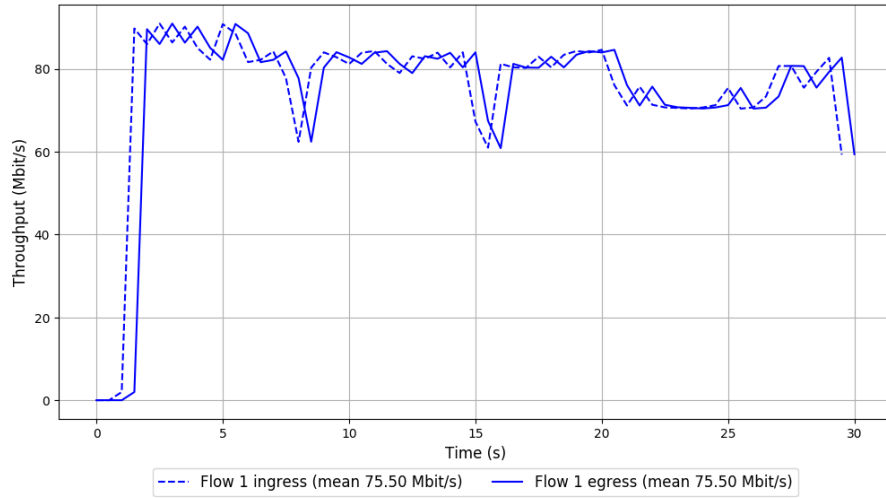
-- Flow 1:

Average throughput: 75.50 Mbit/s

95th percentile per-packet one-way delay: 0.887 ms

Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-11-23 22:55:47

End at: 2019-11-23 22:56:17

Local clock offset: 4.123 ms

Remote clock offset: 3.825 ms

Below is generated by plot.py at 2019-11-24 01:56:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.66 Mbit/s

95th percentile per-packet one-way delay: 0.857 ms

Loss rate: 0.01%

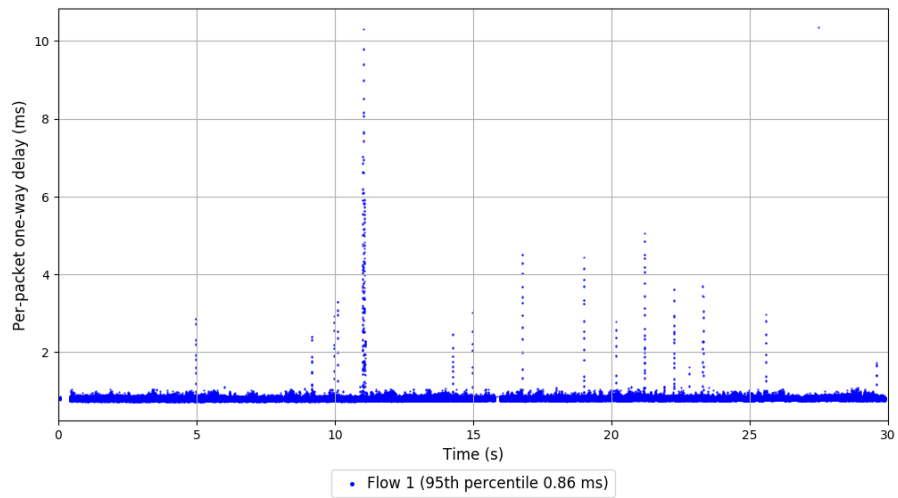
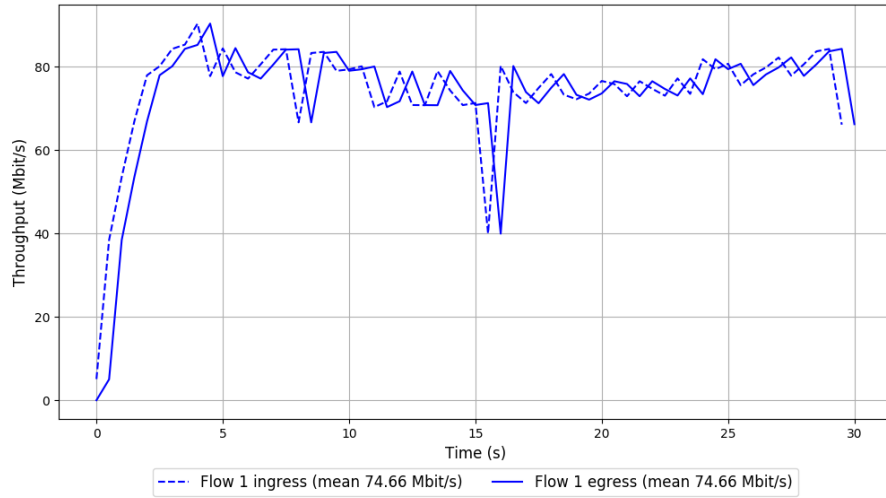
-- Flow 1:

Average throughput: 74.66 Mbit/s

95th percentile per-packet one-way delay: 0.857 ms

Loss rate: 0.01%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-11-23 23:28:49

End at: 2019-11-23 23:29:19

Local clock offset: 4.166 ms

Remote clock offset: 1.424 ms

Below is generated by plot.py at 2019-11-24 01:56:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.15 Mbit/s

95th percentile per-packet one-way delay: 1.000 ms

Loss rate: 0.00%

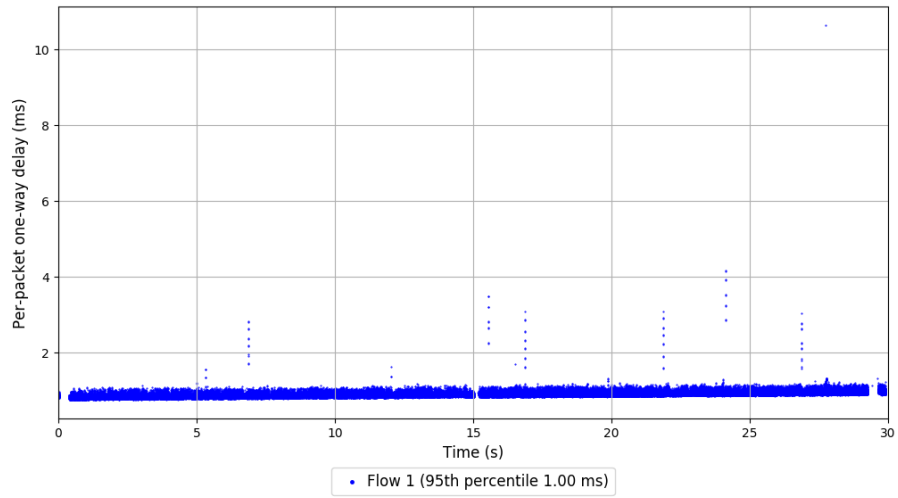
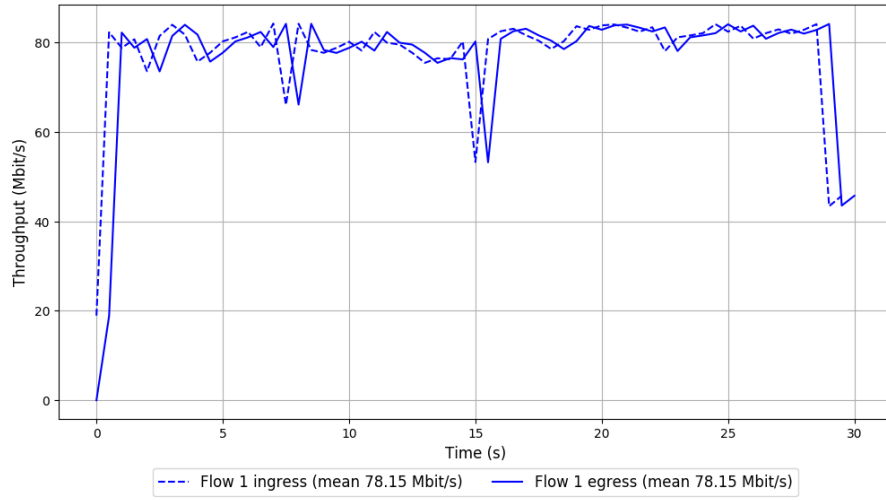
-- Flow 1:

Average throughput: 78.15 Mbit/s

95th percentile per-packet one-way delay: 1.000 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link

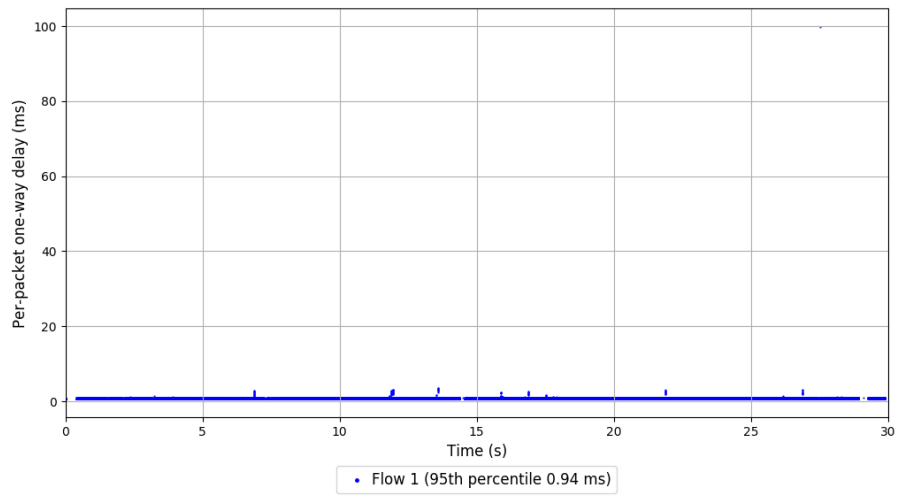
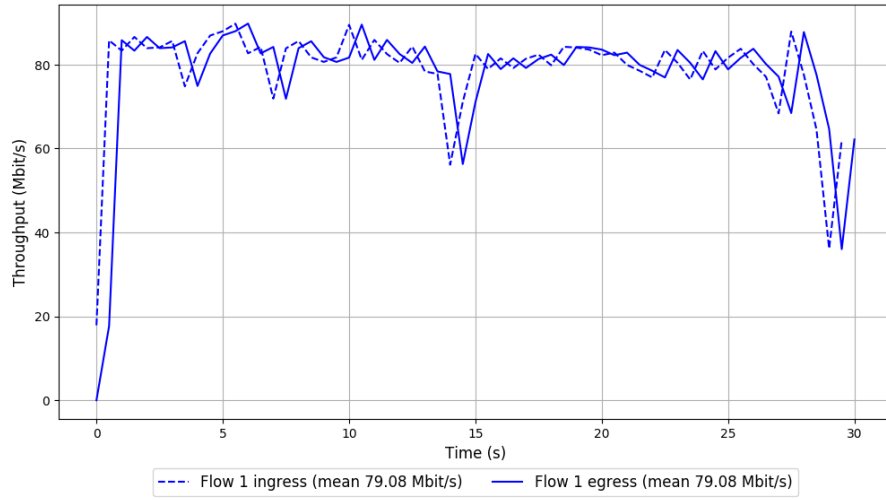


Run 4: Statistics of QUIC Cubic

Start at: 2019-11-24 00:02:10
End at: 2019-11-24 00:02:40
Local clock offset: 3.49 ms
Remote clock offset: -2.714 ms

Below is generated by plot.py at 2019-11-24 01:56:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 79.08 Mbit/s
95th percentile per-packet one-way delay: 0.938 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 79.08 Mbit/s
95th percentile per-packet one-way delay: 0.938 ms
Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-11-24 00:34:37

End at: 2019-11-24 00:35:07

Local clock offset: 3.558 ms

Remote clock offset: -3.072 ms

Below is generated by plot.py at 2019-11-24 01:56:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.45 Mbit/s

95th percentile per-packet one-way delay: 0.758 ms

Loss rate: 0.00%

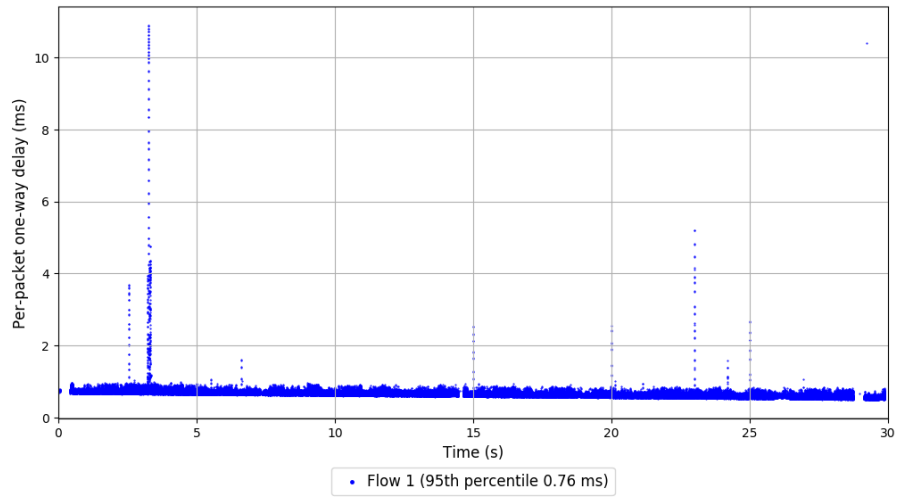
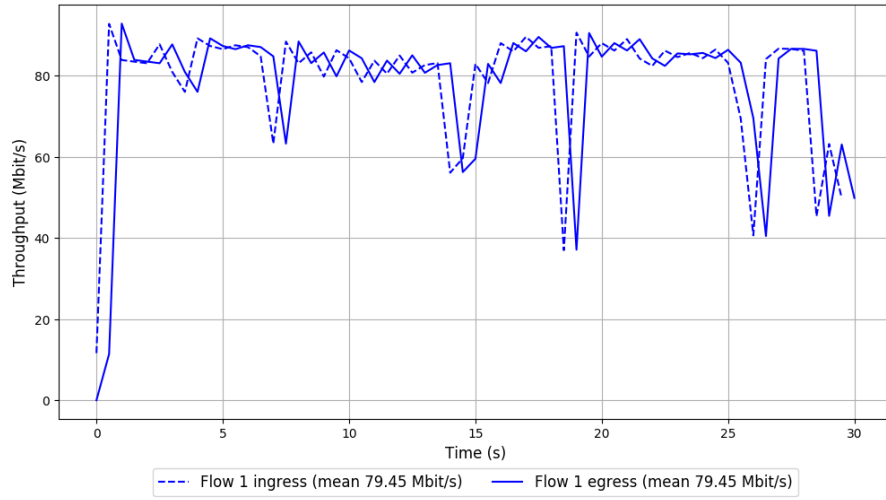
-- Flow 1:

Average throughput: 79.45 Mbit/s

95th percentile per-packet one-way delay: 0.758 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2019-11-23 22:18:19

End at: 2019-11-23 22:18:49

Local clock offset: 3.314 ms

Remote clock offset: 1.316 ms

Below is generated by plot.py at 2019-11-24 01:56:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.227 ms

Loss rate: 0.00%

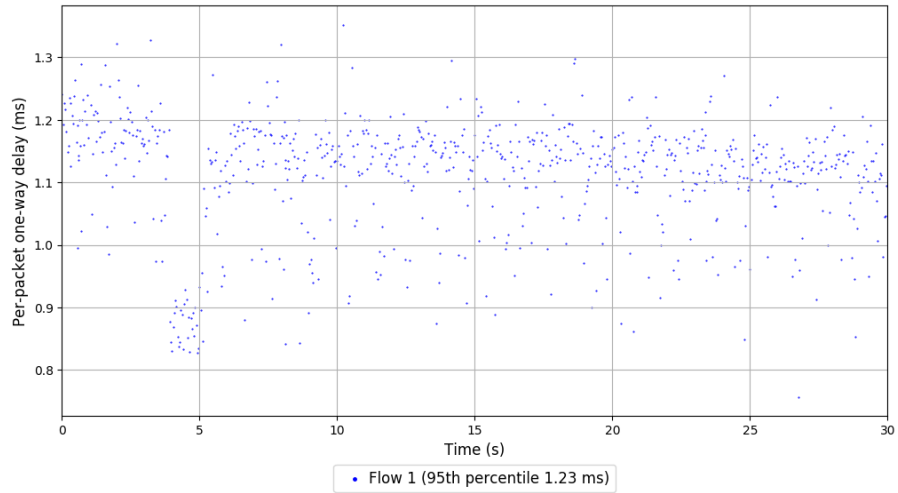
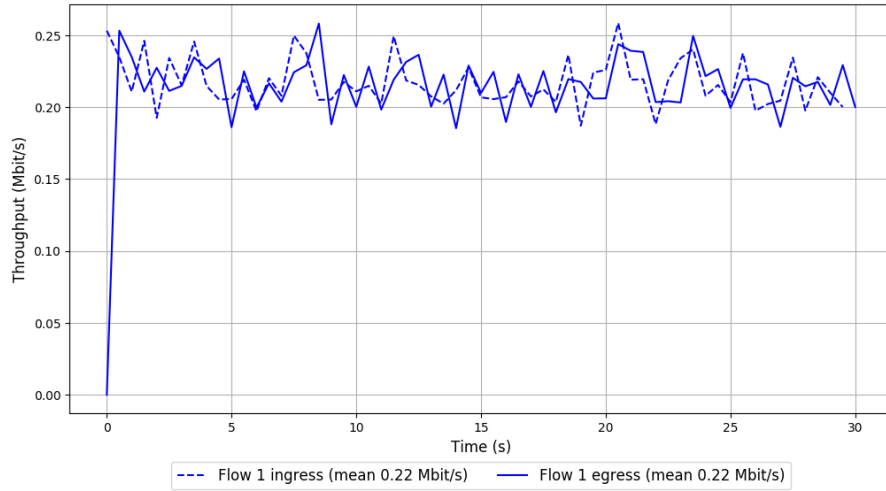
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.227 ms

Loss rate: 0.00%

Run 1: Report of SCReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-11-23 22:51:43

End at: 2019-11-23 22:52:13

Local clock offset: 4.122 ms

Remote clock offset: 4.087 ms

Below is generated by plot.py at 2019-11-24 01:56:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.179 ms

Loss rate: 0.00%

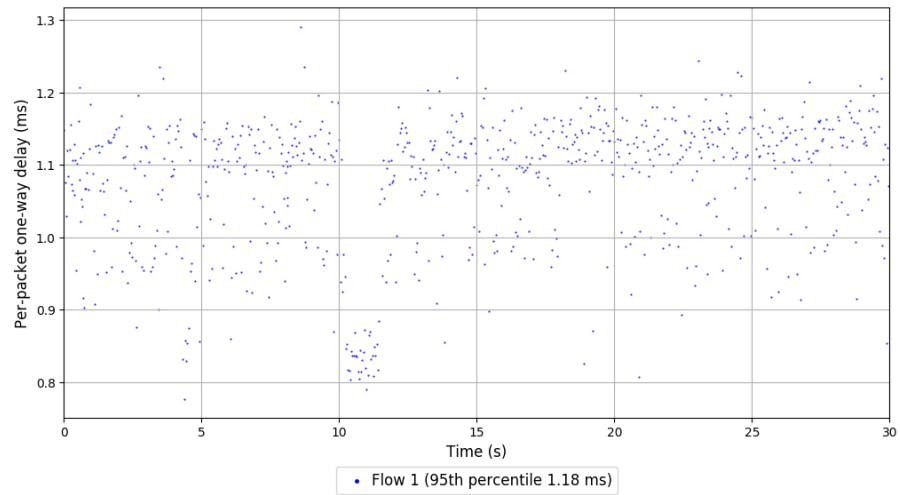
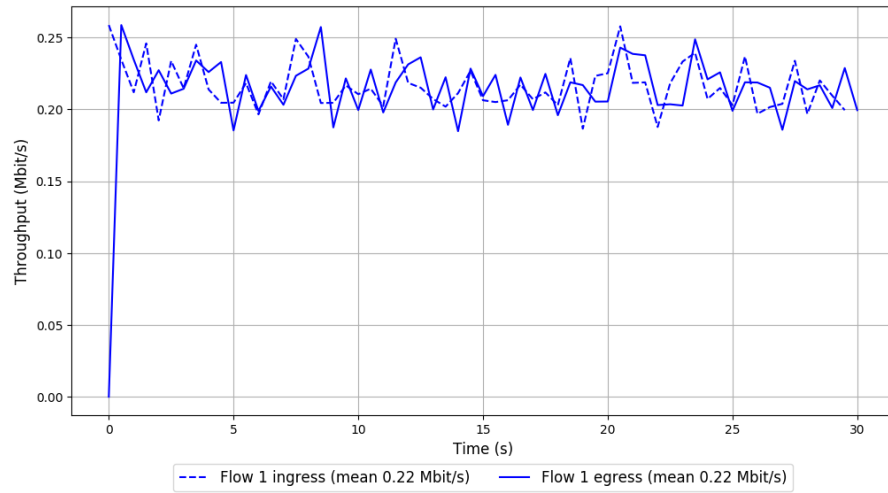
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.179 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-11-23 23:24:44

End at: 2019-11-23 23:25:14

Local clock offset: 4.123 ms

Remote clock offset: 2.861 ms

Below is generated by plot.py at 2019-11-24 01:56:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.500 ms

Loss rate: 0.00%

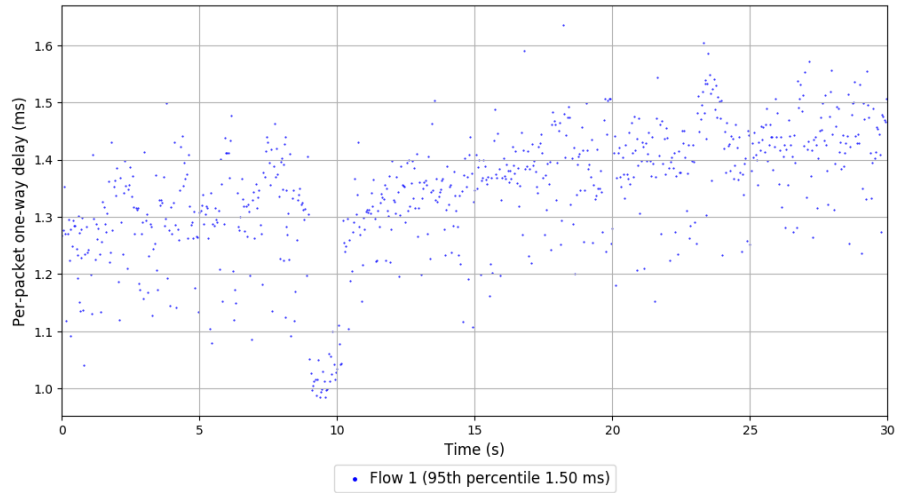
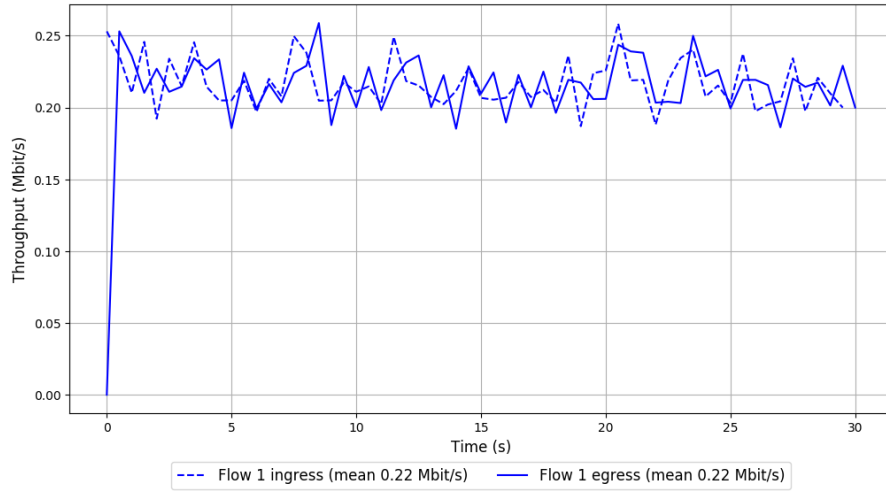
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.500 ms

Loss rate: 0.00%

Run 3: Report of SCReAM — Data Link

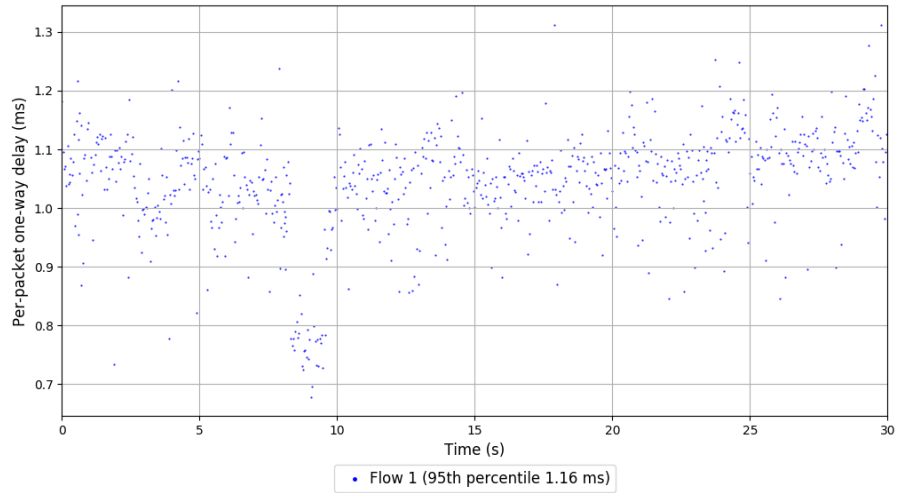
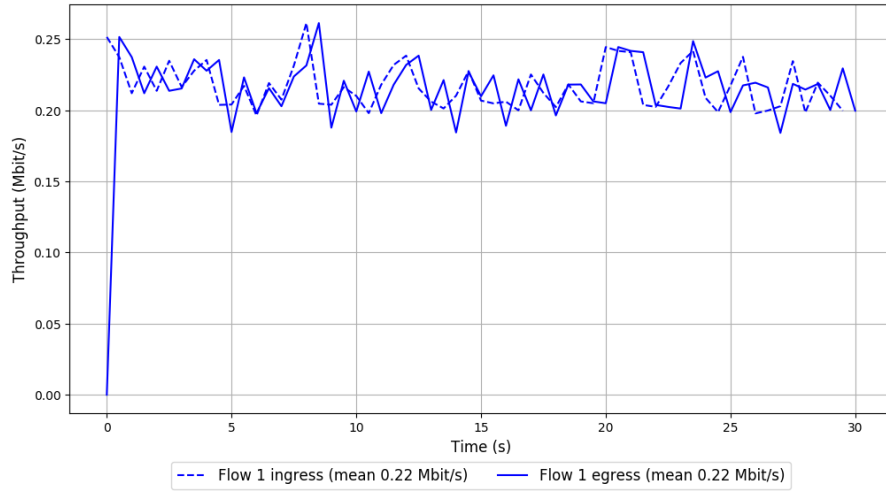


Run 4: Statistics of SCReAM

Start at: 2019-11-23 23:58:15
End at: 2019-11-23 23:58:45
Local clock offset: 3.506 ms
Remote clock offset: -2.185 ms

Below is generated by plot.py at 2019-11-24 01:56:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.162 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.162 ms
Loss rate: 0.00%

Run 4: Report of SCReAM — Data Link

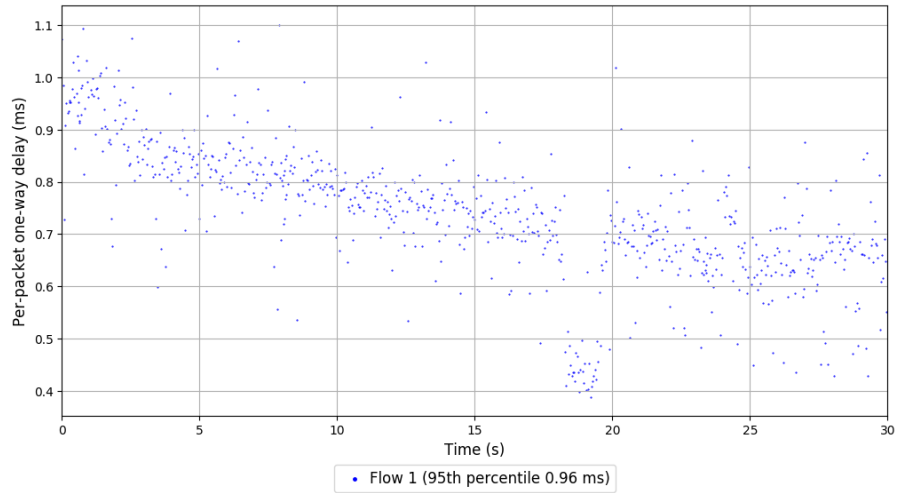
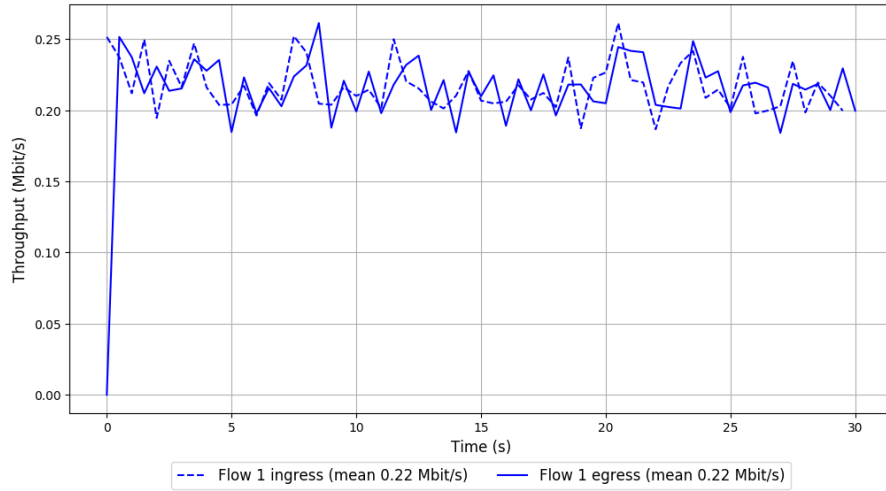


Run 5: Statistics of SCReAM

Start at: 2019-11-24 00:30:35
End at: 2019-11-24 00:31:05
Local clock offset: 3.512 ms
Remote clock offset: -5.158 ms

Below is generated by plot.py at 2019-11-24 01:56:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.958 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.958 ms
Loss rate: 0.00%

Run 5: Report of SCReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-11-23 22:13:09

End at: 2019-11-23 22:13:39

Local clock offset: 3.359 ms

Remote clock offset: -0.228 ms

Below is generated by plot.py at 2019-11-24 01:56:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.11 Mbit/s

95th percentile per-packet one-way delay: 3.902 ms

Loss rate: 0.00%

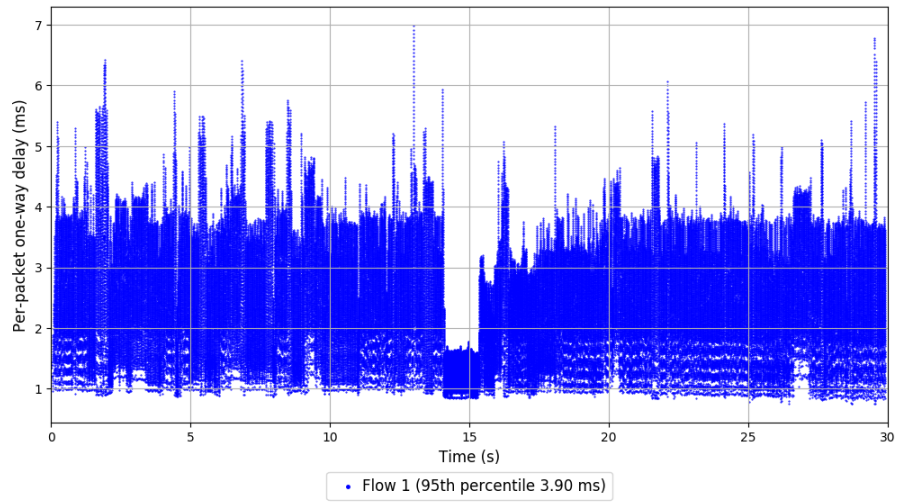
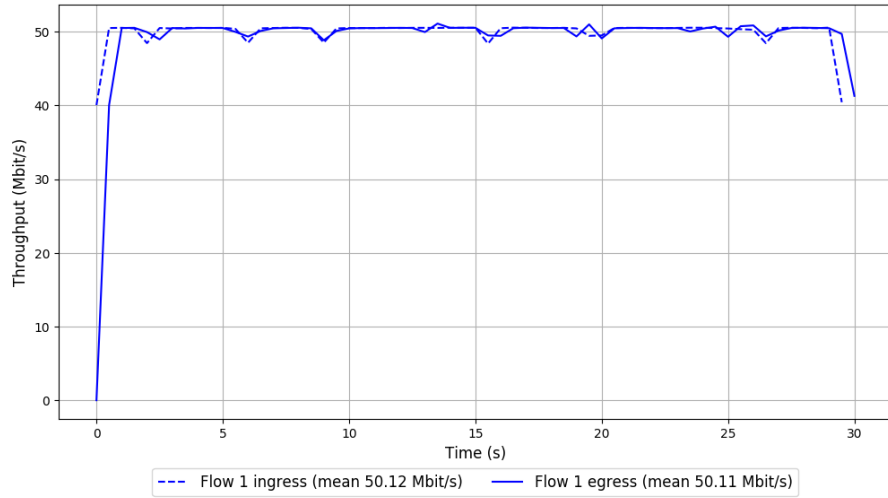
-- Flow 1:

Average throughput: 50.11 Mbit/s

95th percentile per-packet one-way delay: 3.902 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-11-23 22:46:17

End at: 2019-11-23 22:46:47

Local clock offset: 4.371 ms

Remote clock offset: 4.451 ms

Below is generated by plot.py at 2019-11-24 01:56:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.68 Mbit/s

95th percentile per-packet one-way delay: 4.429 ms

Loss rate: 0.00%

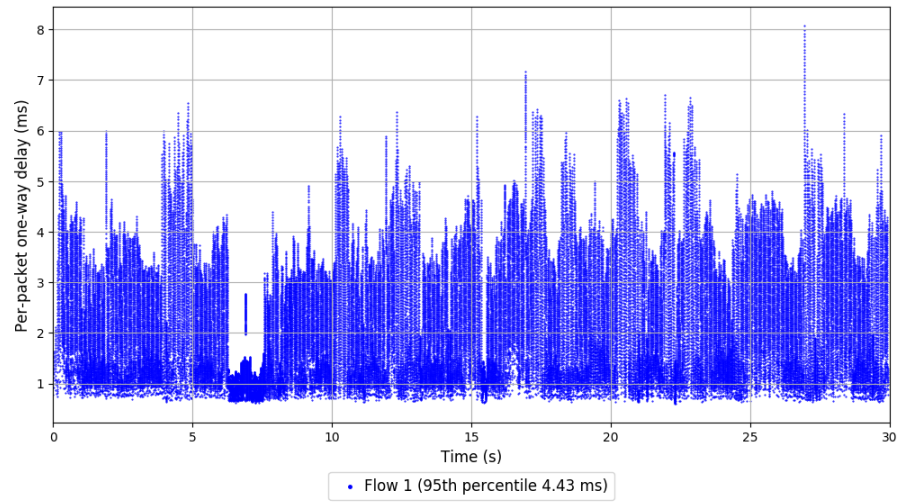
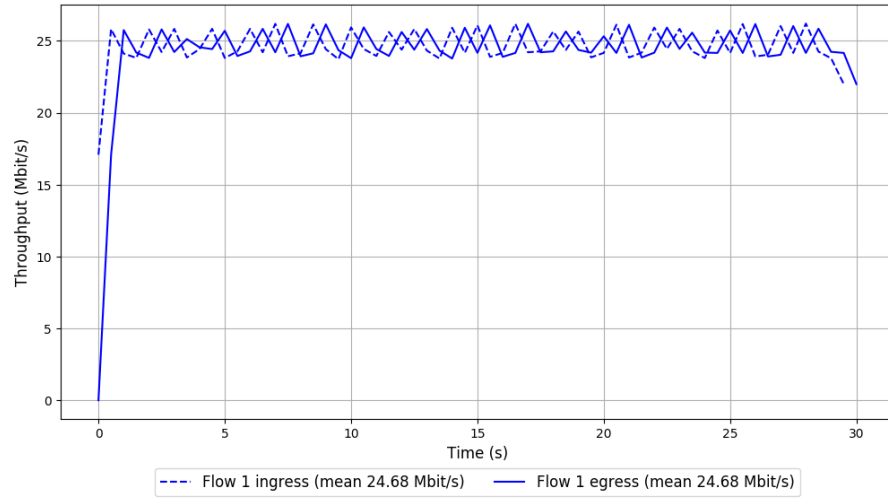
-- Flow 1:

Average throughput: 24.68 Mbit/s

95th percentile per-packet one-way delay: 4.429 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-11-23 23:19:38

End at: 2019-11-23 23:20:09

Local clock offset: 4.095 ms

Remote clock offset: 4.051 ms

Below is generated by plot.py at 2019-11-24 01:56:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.61 Mbit/s

95th percentile per-packet one-way delay: 4.600 ms

Loss rate: 0.00%

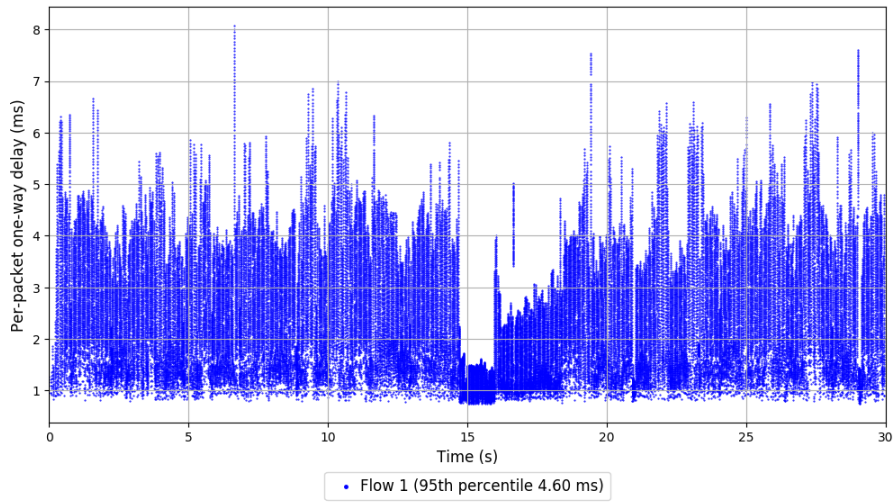
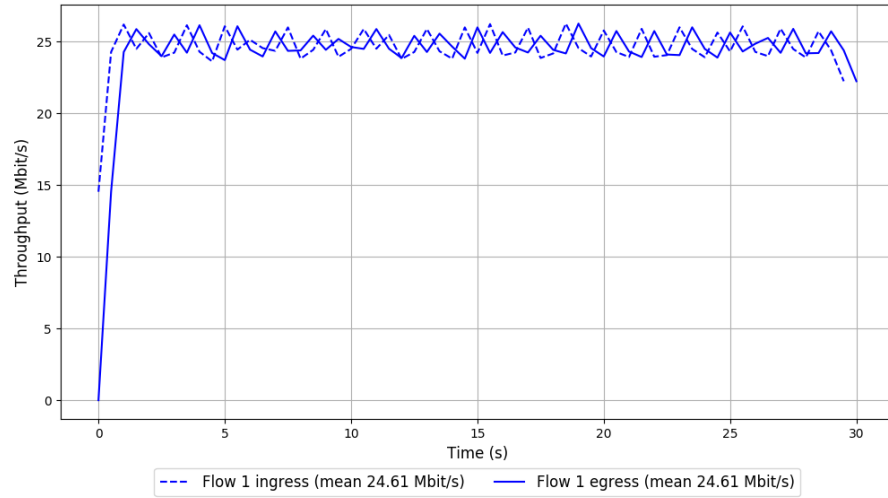
-- Flow 1:

Average throughput: 24.61 Mbit/s

95th percentile per-packet one-way delay: 4.600 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-11-23 23:53:00

End at: 2019-11-23 23:53:30

Local clock offset: 3.552 ms

Remote clock offset: -1.44 ms

Below is generated by plot.py at 2019-11-24 01:56:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.05 Mbit/s

95th percentile per-packet one-way delay: 4.257 ms

Loss rate: 0.00%

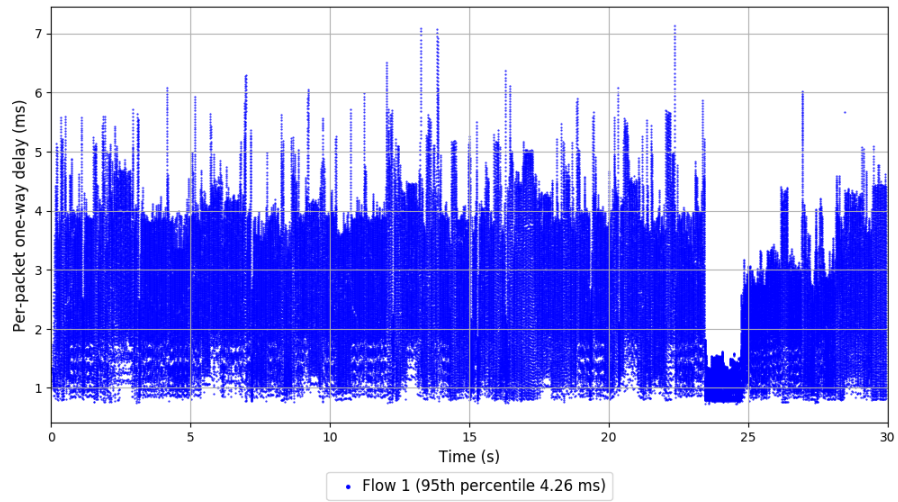
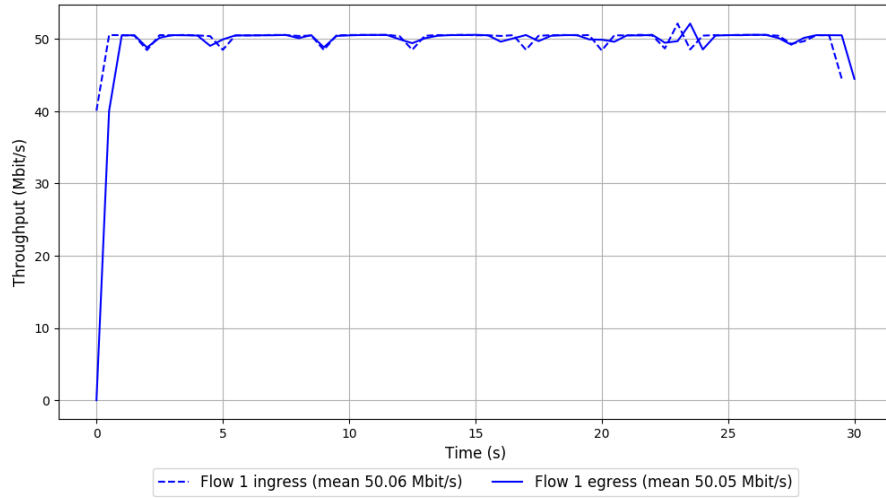
-- Flow 1:

Average throughput: 50.05 Mbit/s

95th percentile per-packet one-way delay: 4.257 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-11-24 00:25:18

End at: 2019-11-24 00:25:48

Local clock offset: 3.467 ms

Remote clock offset: -4.947 ms

Below is generated by plot.py at 2019-11-24 01:56:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.94 Mbit/s

95th percentile per-packet one-way delay: 4.748 ms

Loss rate: 0.05%

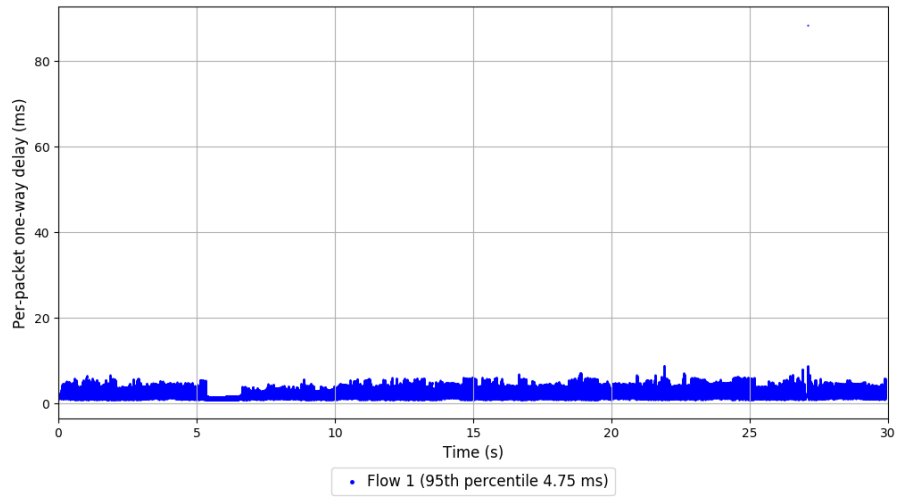
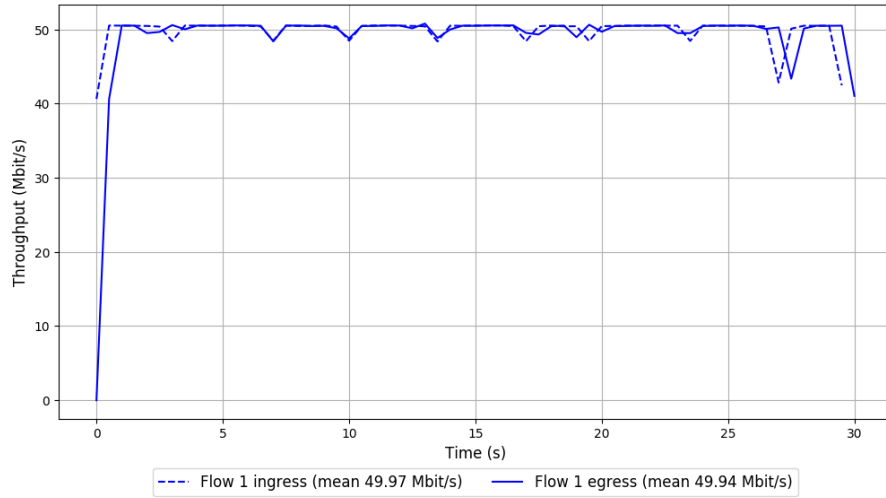
-- Flow 1:

Average throughput: 49.94 Mbit/s

95th percentile per-packet one-way delay: 4.748 ms

Loss rate: 0.05%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

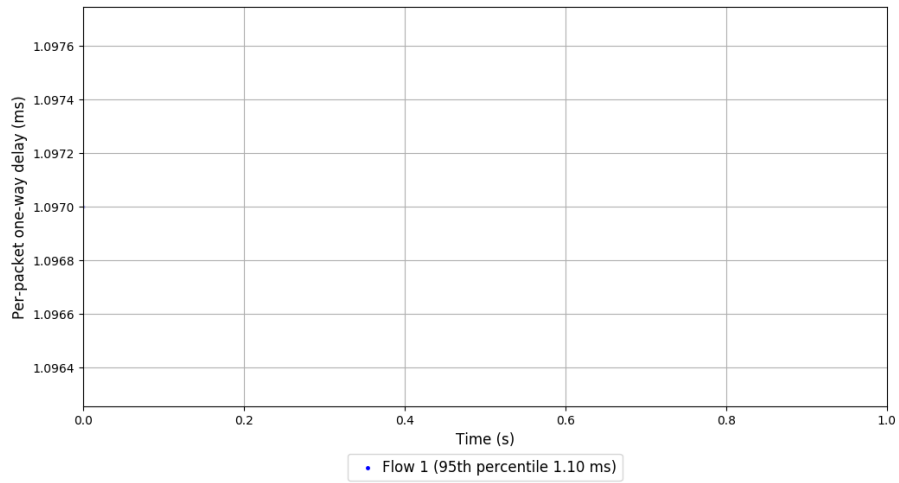
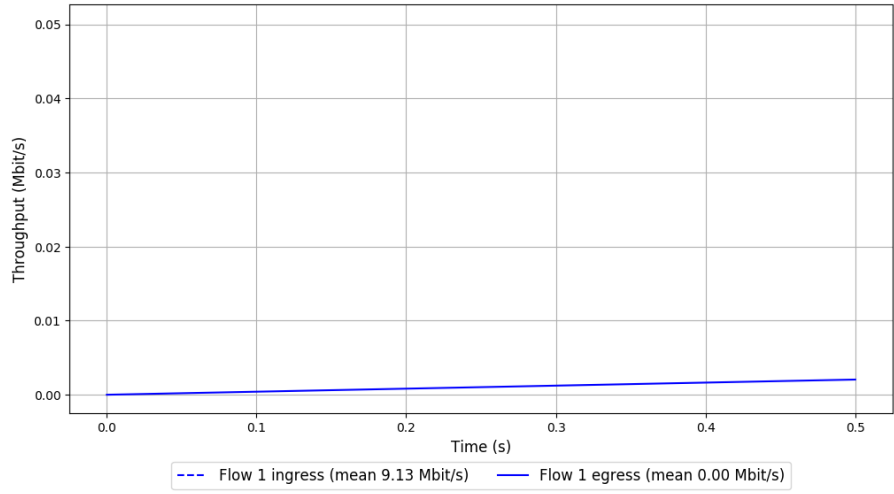
Start at: 2019-11-23 22:33:29

End at: 2019-11-23 22:33:59

Local clock offset: 4.818 ms

Remote clock offset: 3.478 ms

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



Run 2: Statistics of TaoVA-100x

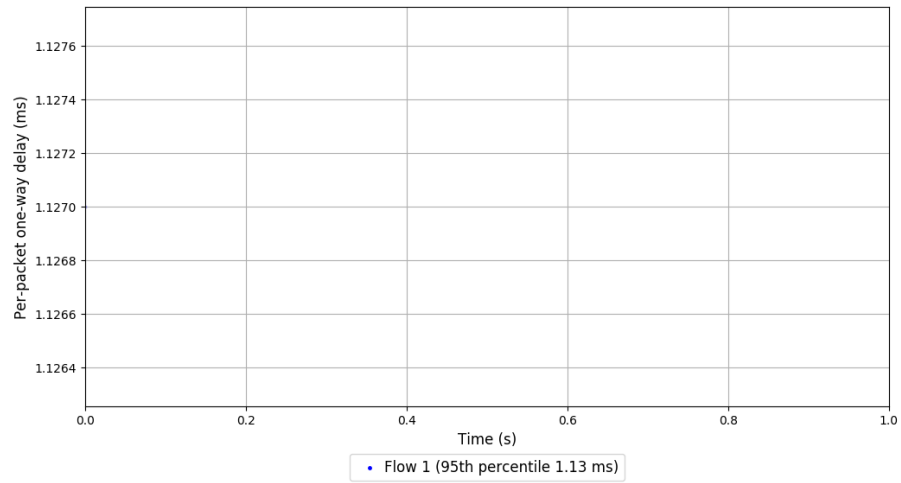
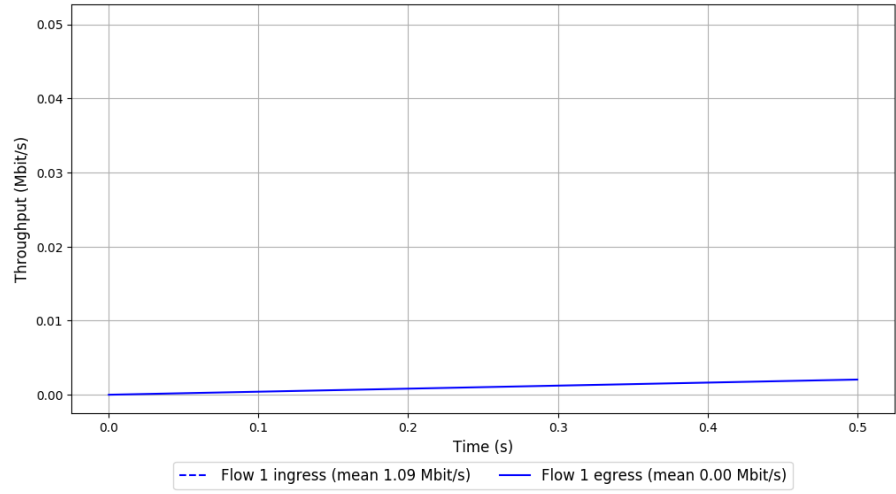
Start at: 2019-11-23 23:06:35

End at: 2019-11-23 23:07:05

Local clock offset: 4.403 ms

Remote clock offset: 3.698 ms

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



Run 3: Statistics of TaoVA-100x

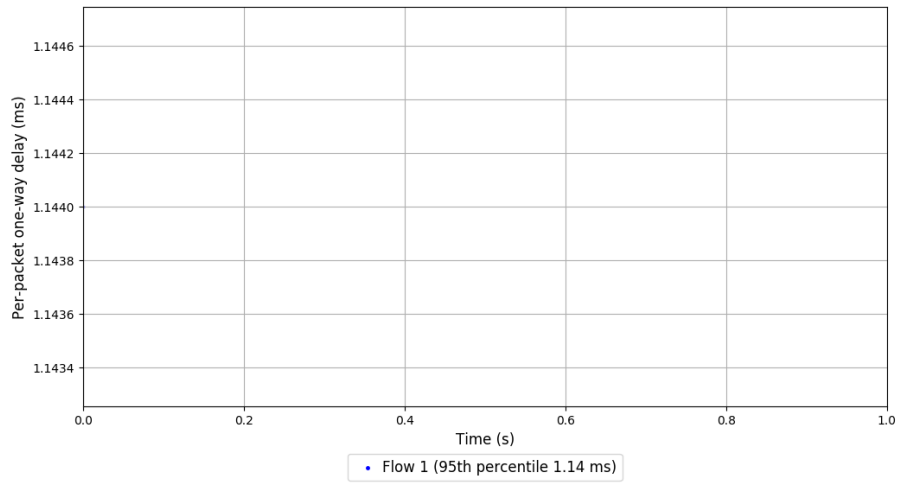
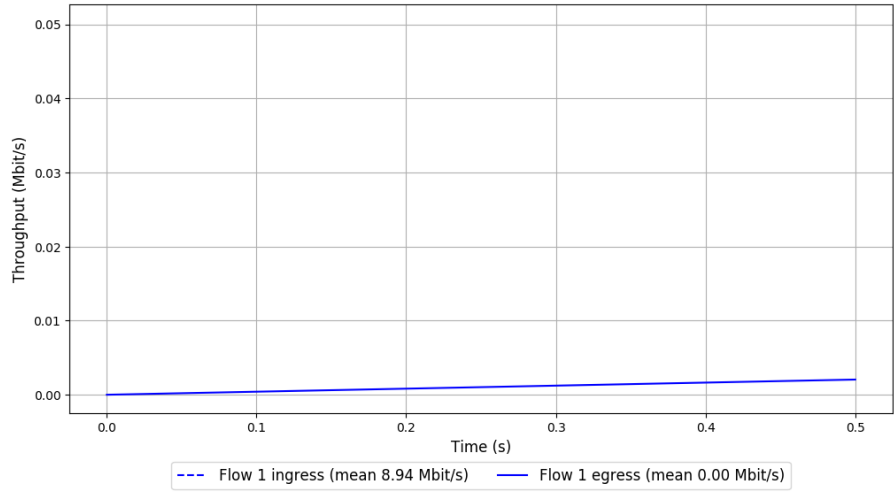
Start at: 2019-11-23 23:40:20

End at: 2019-11-23 23:40:50

Local clock offset: 4.39 ms

Remote clock offset: -0.414 ms

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



Run 4: Statistics of TaoVA-100x

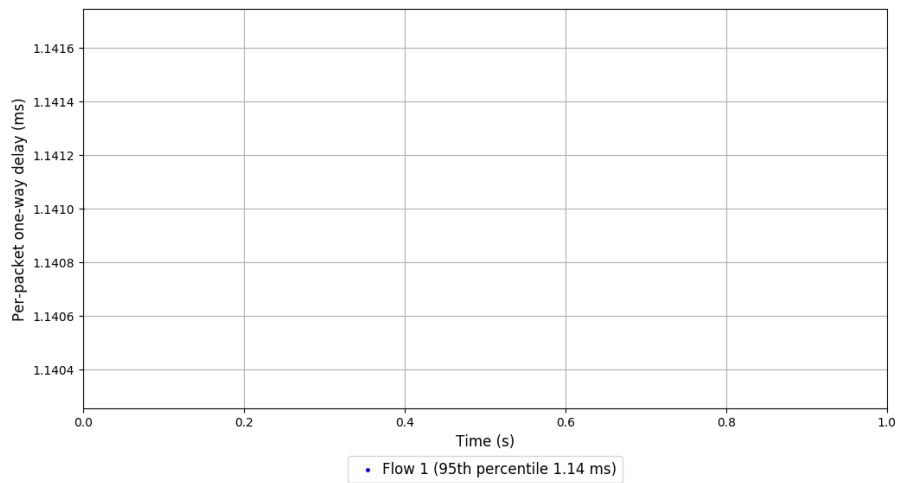
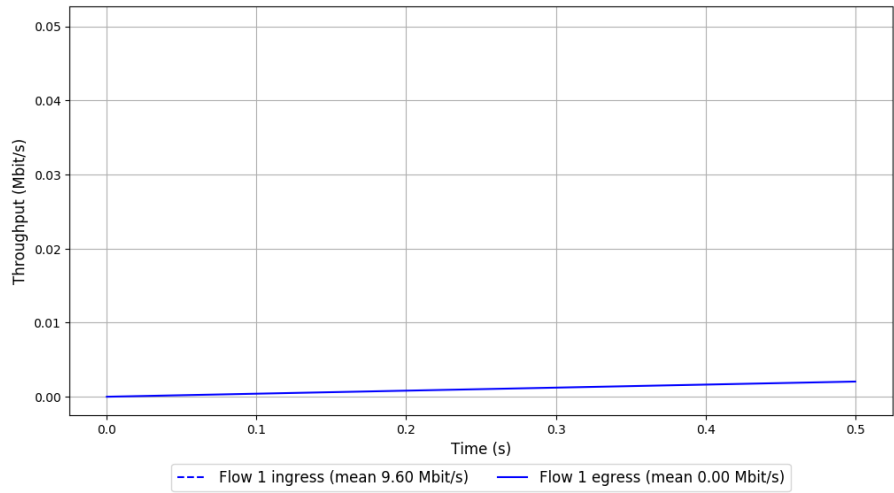
Start at: 2019-11-24 00:12:53

End at: 2019-11-24 00:13:23

Local clock offset: 3.46 ms

Remote clock offset: -3.997 ms

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



Run 5: Statistics of TaoVA-100x

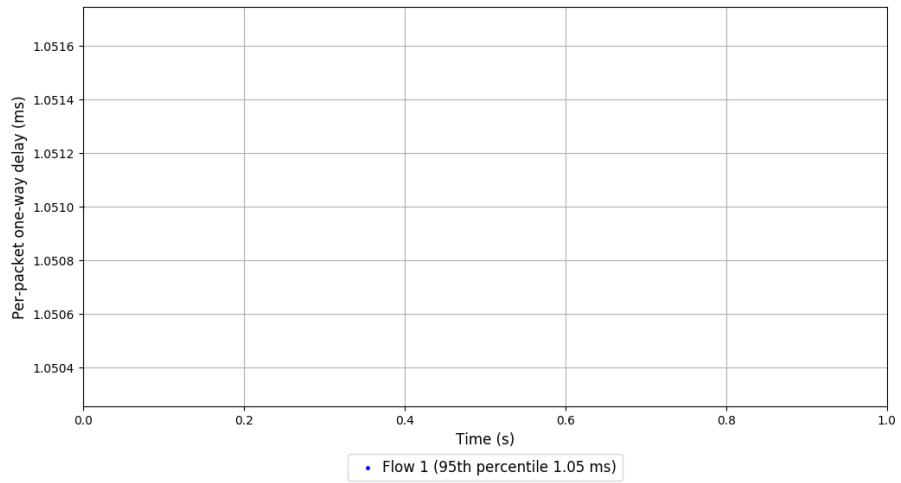
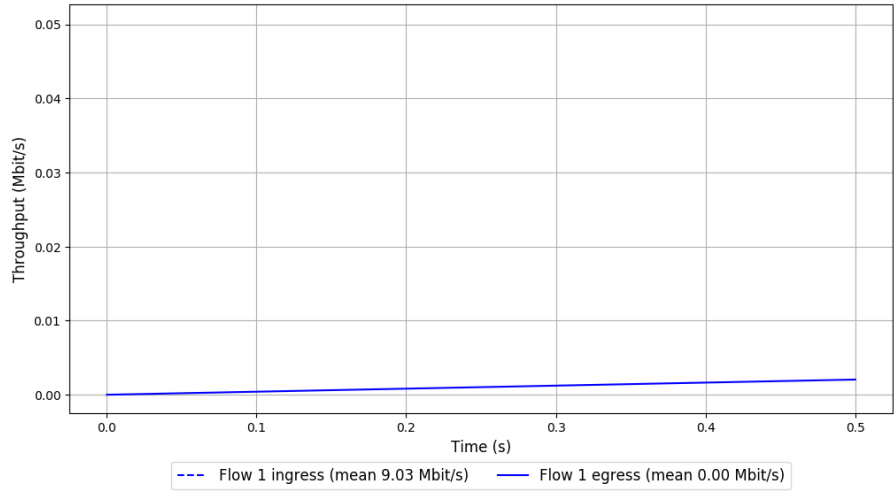
Start at: 2019-11-24 00:45:59

End at: 2019-11-24 00:46:29

Local clock offset: 3.271 ms

Remote clock offset: -0.663 ms

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



Run 1: Statistics of TCP Vegas

Start at: 2019-11-23 22:42:02

End at: 2019-11-23 22:42:32

Local clock offset: 4.874 ms

Remote clock offset: 4.252 ms

Below is generated by plot.py at 2019-11-24 01:56:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 124.40 Mbit/s

95th percentile per-packet one-way delay: 1.341 ms

Loss rate: 0.17%

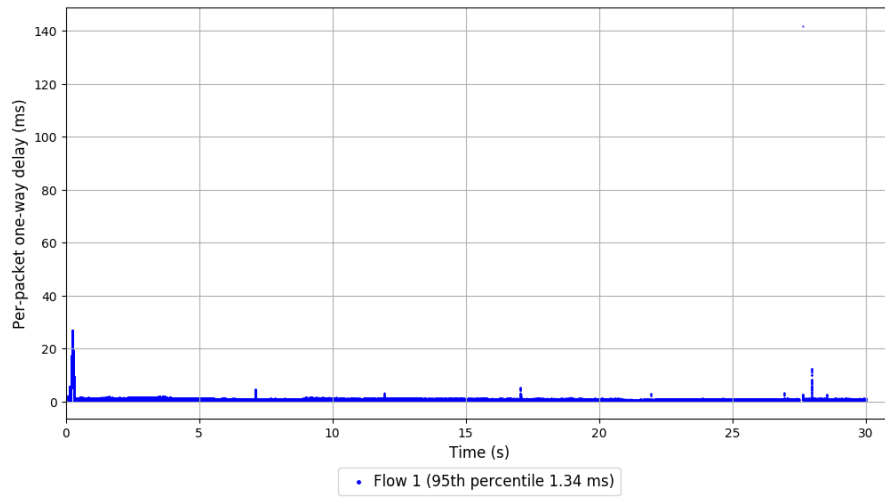
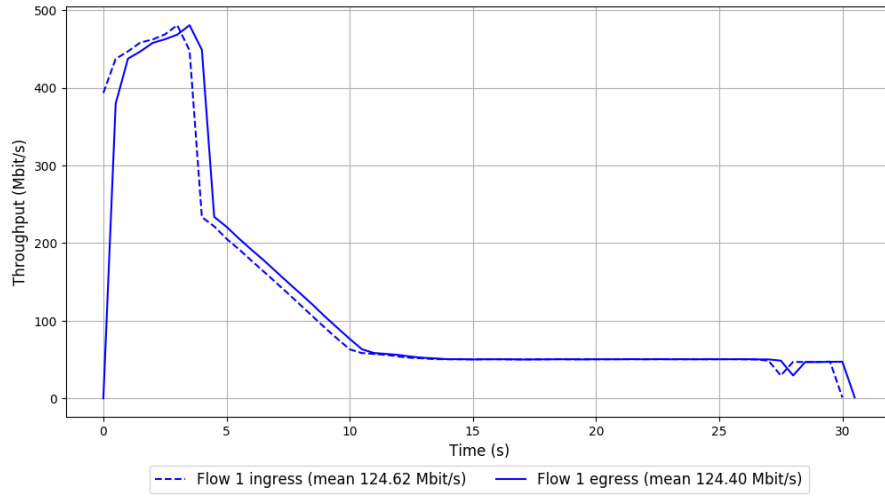
-- Flow 1:

Average throughput: 124.40 Mbit/s

95th percentile per-packet one-way delay: 1.341 ms

Loss rate: 0.17%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-11-23 23:15:09

End at: 2019-11-23 23:15:39

Local clock offset: 4.183 ms

Remote clock offset: 3.911 ms

Below is generated by plot.py at 2019-11-24 01:56:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.87 Mbit/s

95th percentile per-packet one-way delay: 3.027 ms

Loss rate: 0.04%

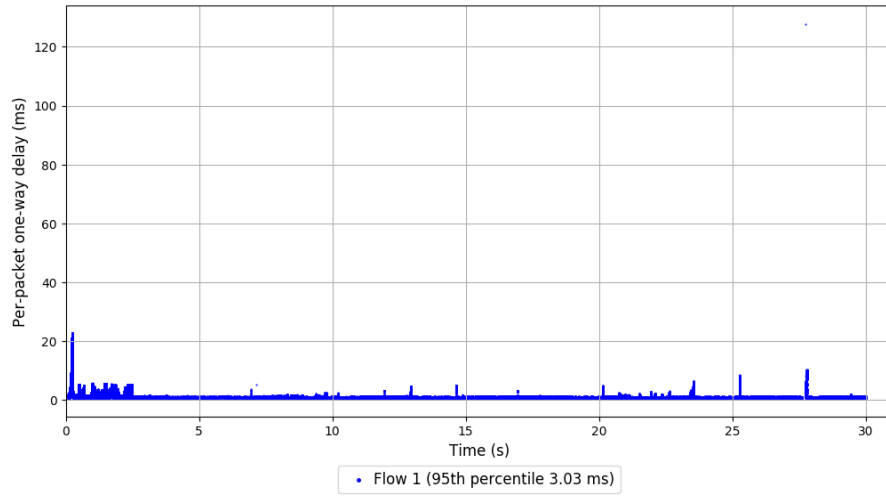
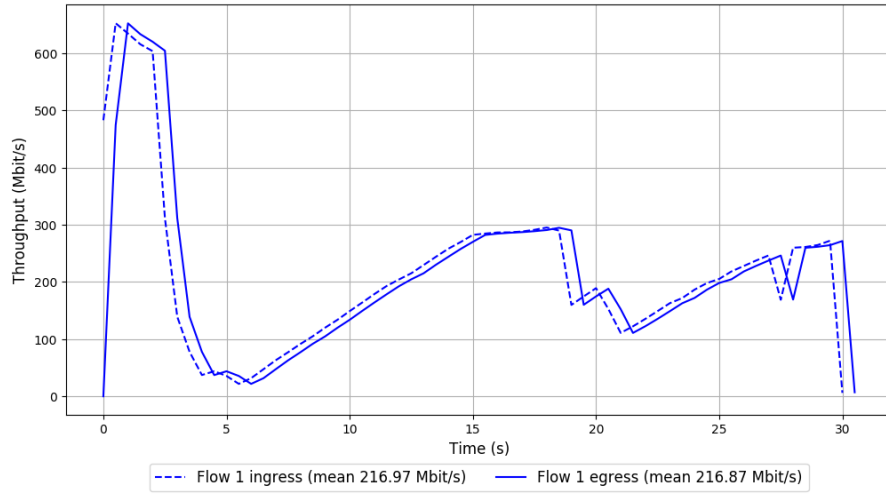
-- Flow 1:

Average throughput: 216.87 Mbit/s

95th percentile per-packet one-way delay: 3.027 ms

Loss rate: 0.04%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-11-23 23:48:34

End at: 2019-11-23 23:49:04

Local clock offset: 3.687 ms

Remote clock offset: -1.116 ms

Below is generated by plot.py at 2019-11-24 01:56:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 393.15 Mbit/s

95th percentile per-packet one-way delay: 1.655 ms

Loss rate: 0.05%

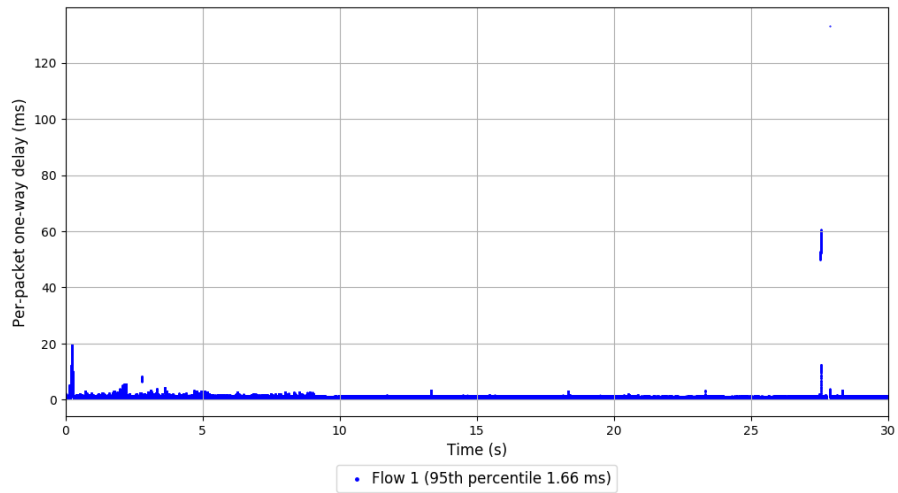
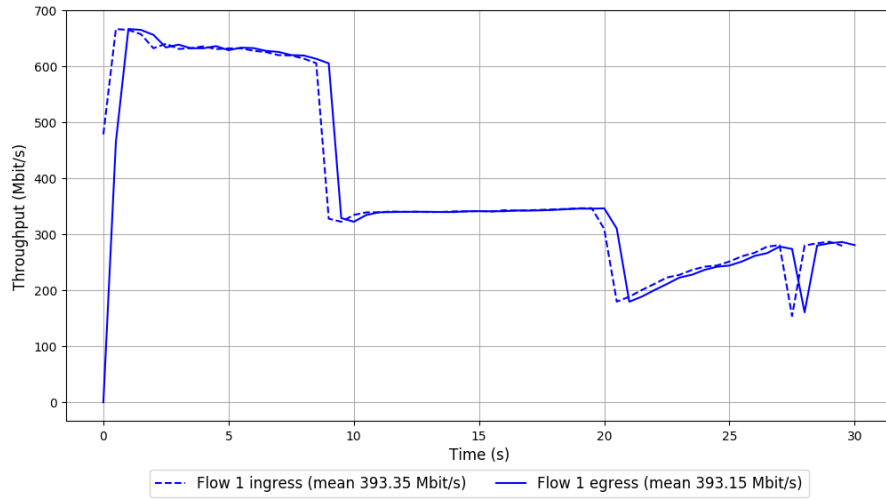
-- Flow 1:

Average throughput: 393.15 Mbit/s

95th percentile per-packet one-way delay: 1.655 ms

Loss rate: 0.05%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-11-24 00:20:52

End at: 2019-11-24 00:21:22

Local clock offset: 3.459 ms

Remote clock offset: -4.703 ms

Below is generated by plot.py at 2019-11-24 01:56:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 361.95 Mbit/s

95th percentile per-packet one-way delay: 1.198 ms

Loss rate: 0.00%

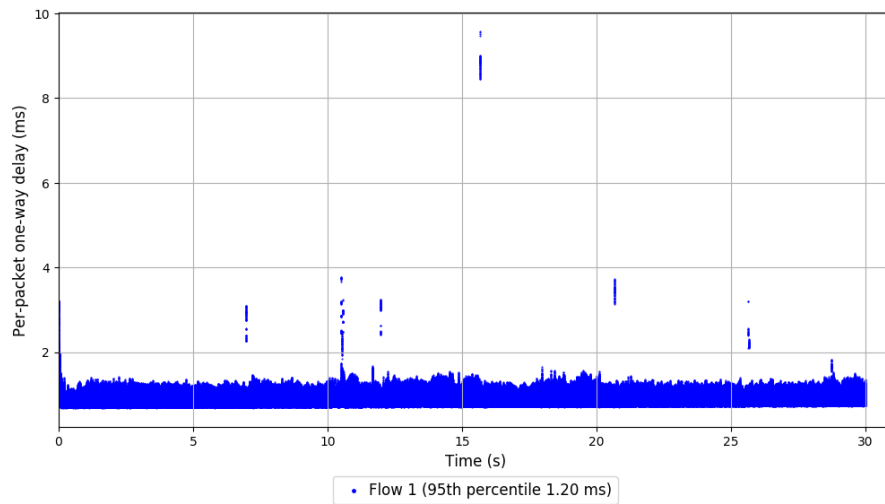
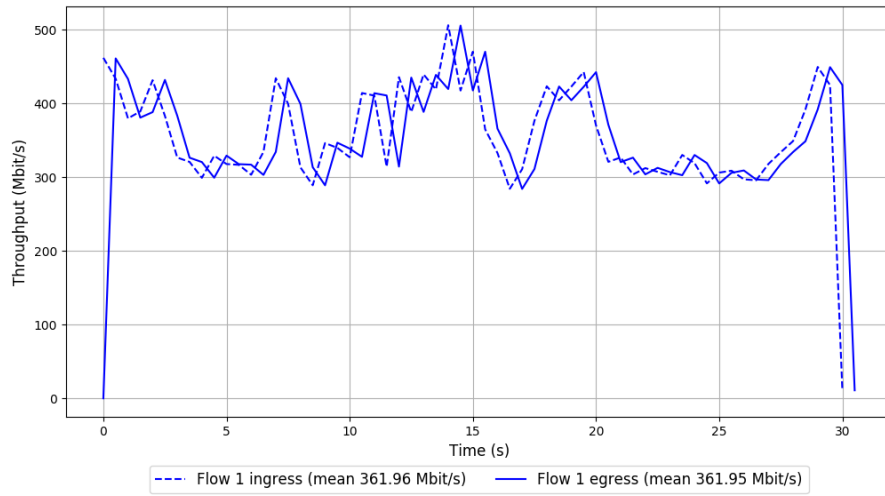
-- Flow 1:

Average throughput: 361.95 Mbit/s

95th percentile per-packet one-way delay: 1.198 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-11-24 00:54:10
End at: 2019-11-24 00:54:40
Local clock offset: 3.113 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2019-11-24 01:56:51

Datalink statistics

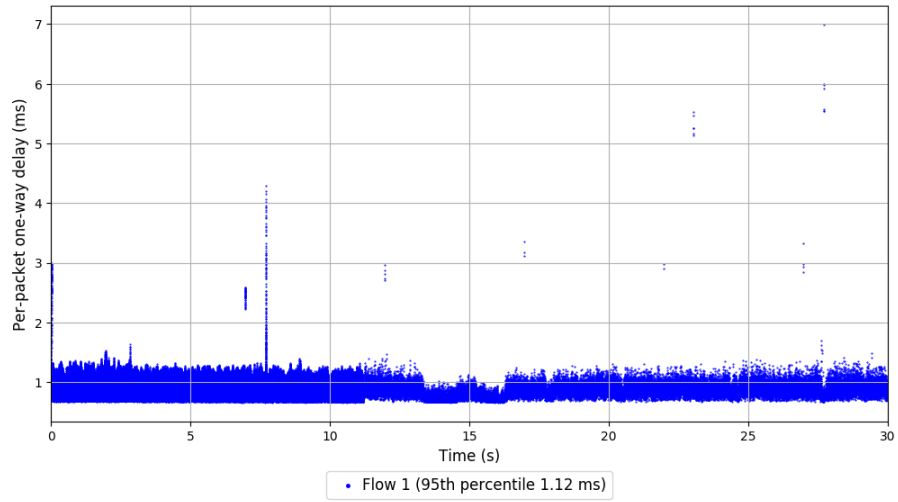
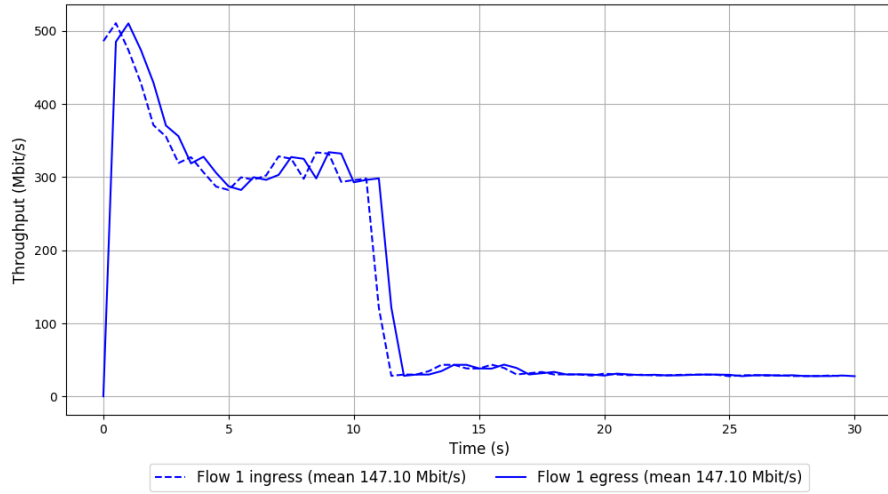
-- Total of 1 flow:

Average throughput: 147.10 Mbit/s
95th percentile per-packet one-way delay: 1.124 ms
Loss rate: 0.00%

-- Flow 1:

Average throughput: 147.10 Mbit/s
95th percentile per-packet one-way delay: 1.124 ms
Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-11-23 22:29:05

End at: 2019-11-23 22:29:35

Local clock offset: 4.371 ms

Remote clock offset: 3.109 ms

Below is generated by plot.py at 2019-11-24 01:56:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.30 Mbit/s

95th percentile per-packet one-way delay: 43.517 ms

Loss rate: 19.54%

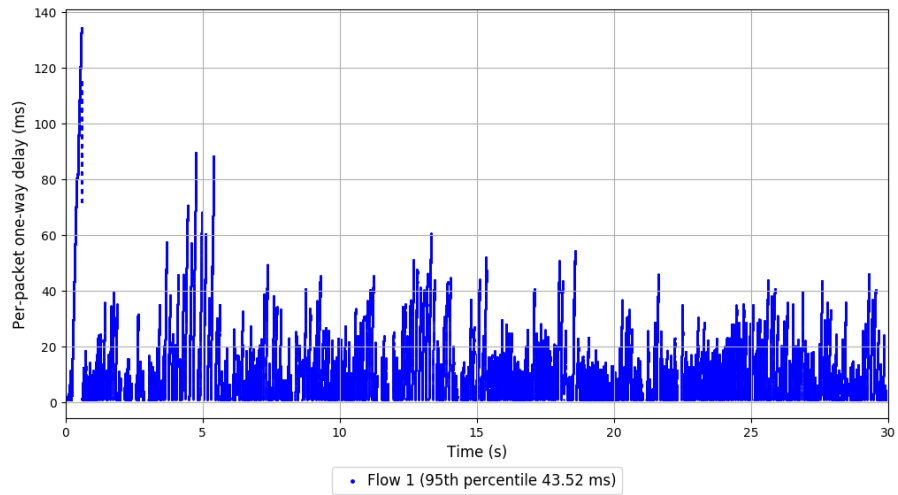
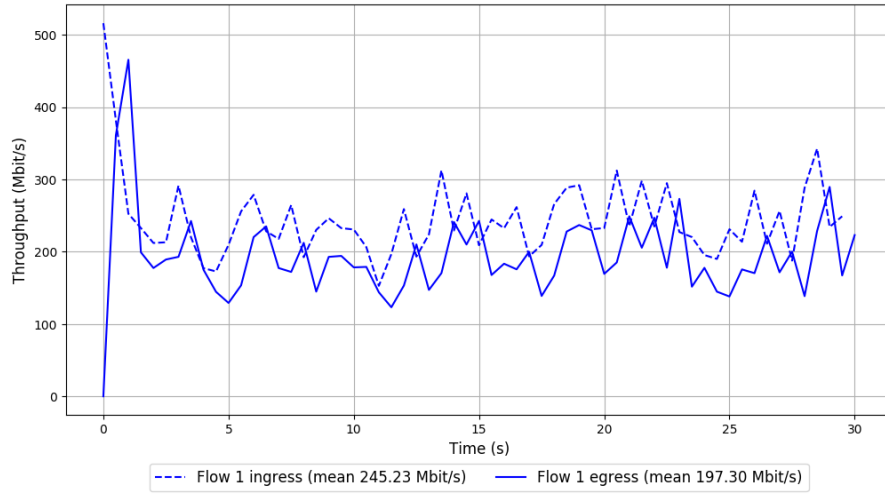
-- Flow 1:

Average throughput: 197.30 Mbit/s

95th percentile per-packet one-way delay: 43.517 ms

Loss rate: 19.54%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-11-23 23:02:23

End at: 2019-11-23 23:02:53

Local clock offset: 4.259 ms

Remote clock offset: 3.777 ms

Below is generated by plot.py at 2019-11-24 01:58:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 278.58 Mbit/s

95th percentile per-packet one-way delay: 11.205 ms

Loss rate: 7.37%

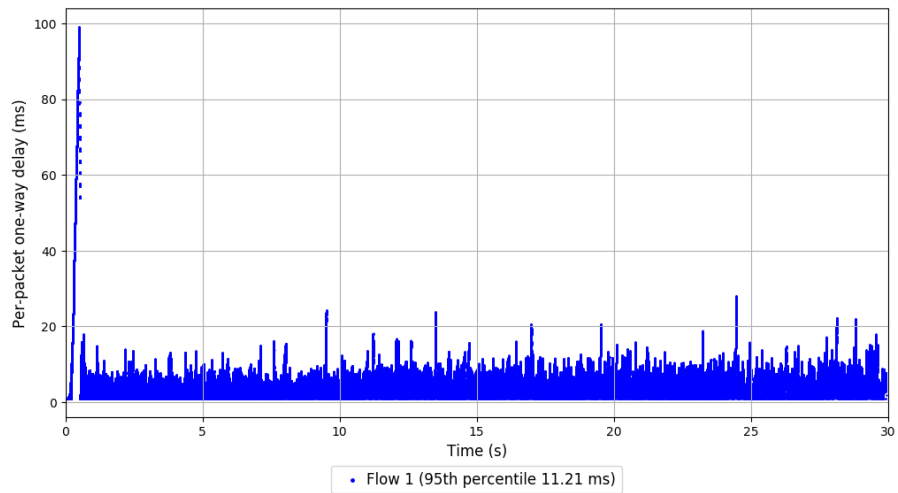
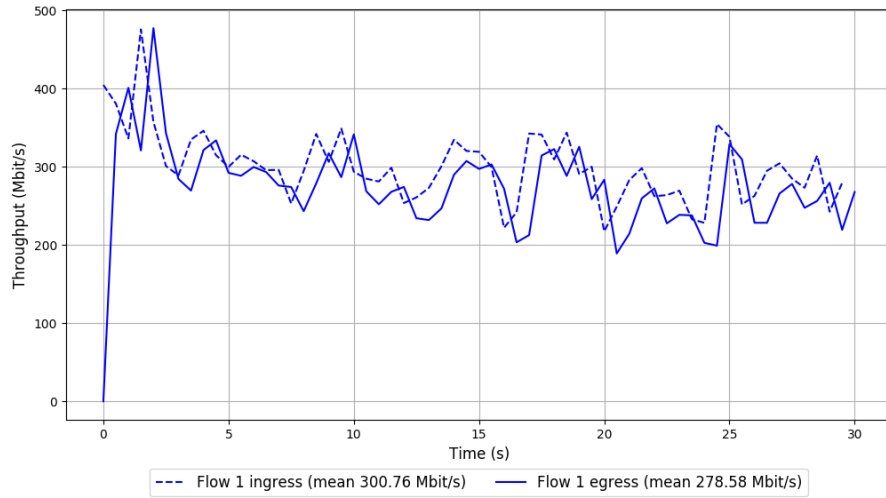
-- Flow 1:

Average throughput: 278.58 Mbit/s

95th percentile per-packet one-way delay: 11.205 ms

Loss rate: 7.37%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-11-23 23:35:52

End at: 2019-11-23 23:36:22

Local clock offset: 4.356 ms

Remote clock offset: 0.068 ms

Below is generated by plot.py at 2019-11-24 01:59:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 312.62 Mbit/s

95th percentile per-packet one-way delay: 18.482 ms

Loss rate: 5.69%

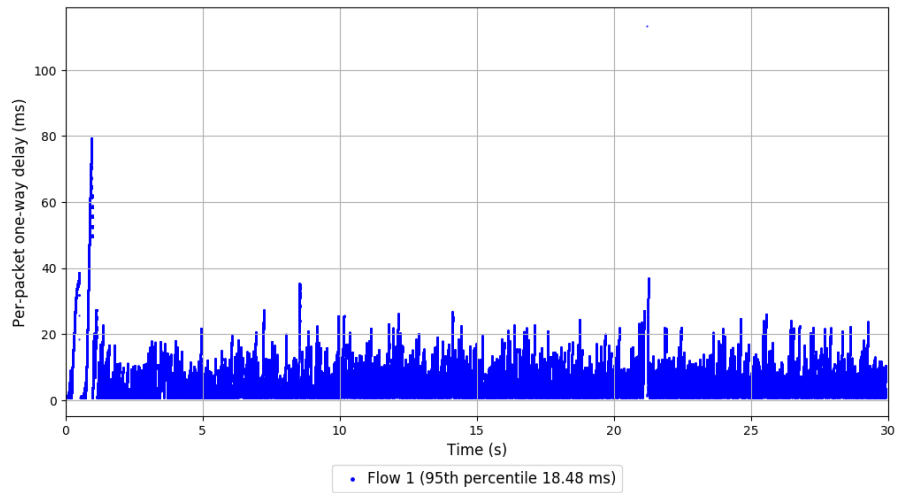
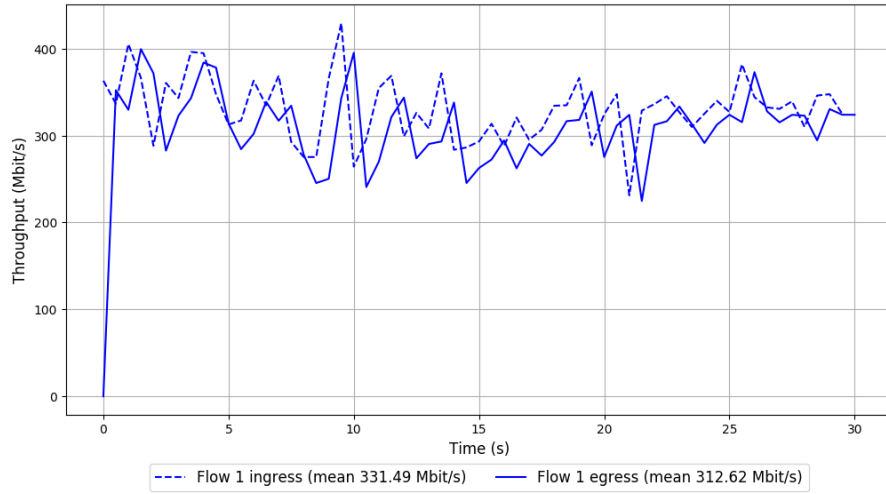
-- Flow 1:

Average throughput: 312.62 Mbit/s

95th percentile per-packet one-way delay: 18.482 ms

Loss rate: 5.69%

Run 3: Report of Verus — Data Link

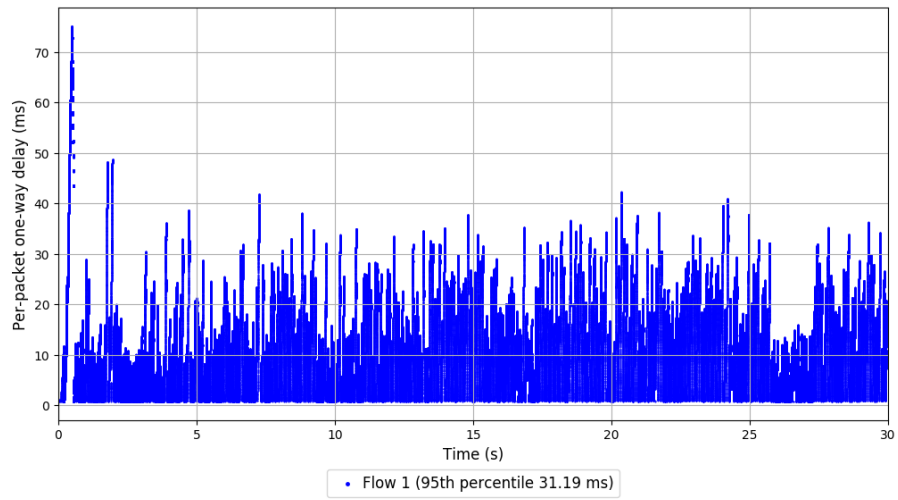
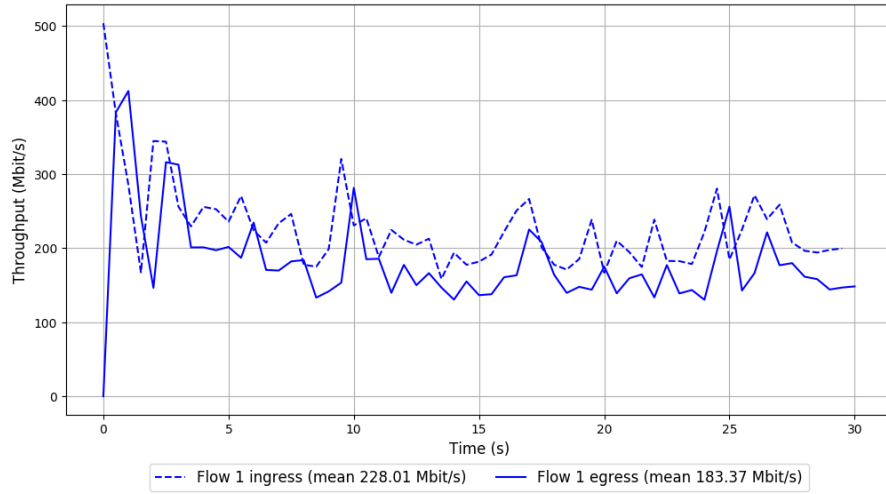


Run 4: Statistics of Verus

Start at: 2019-11-24 00:08:57
End at: 2019-11-24 00:09:27
Local clock offset: 3.511 ms
Remote clock offset: -3.555 ms

```
# Below is generated by plot.py at 2019-11-24 01:59:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 183.37 Mbit/s
95th percentile per-packet one-way delay: 31.191 ms
Loss rate: 19.55%
-- Flow 1:
Average throughput: 183.37 Mbit/s
95th percentile per-packet one-way delay: 31.191 ms
Loss rate: 19.55%
```

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-11-24 00:41:36

End at: 2019-11-24 00:42:06

Local clock offset: 3.492 ms

Remote clock offset: -1.19 ms

Below is generated by plot.py at 2019-11-24 01:59:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.16 Mbit/s

95th percentile per-packet one-way delay: 28.987 ms

Loss rate: 2.64%

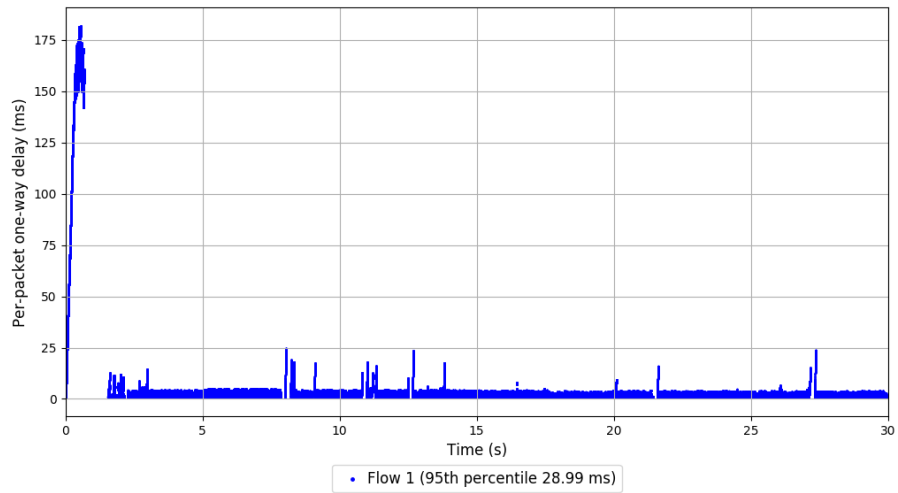
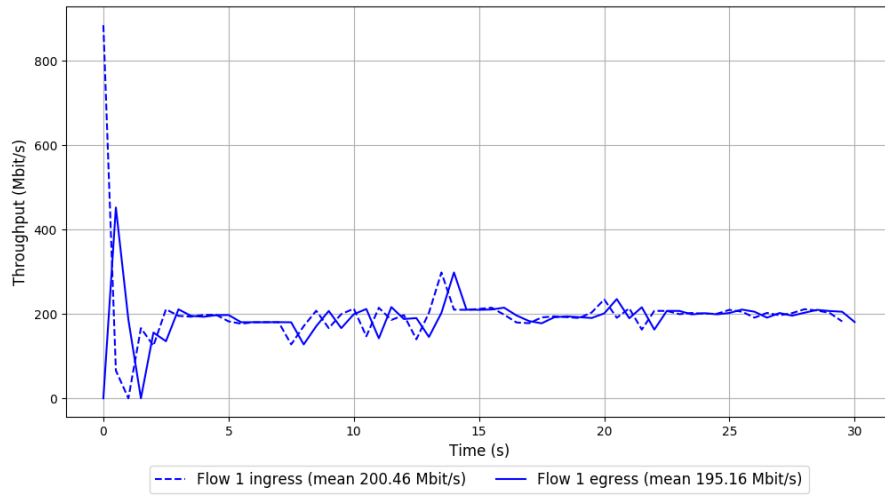
-- Flow 1:

Average throughput: 195.16 Mbit/s

95th percentile per-packet one-way delay: 28.987 ms

Loss rate: 2.64%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-11-23 22:15:37

End at: 2019-11-23 22:16:07

Local clock offset: 3.2 ms

Remote clock offset: 0.524 ms

Below is generated by plot.py at 2019-11-24 02:00:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 376.47 Mbit/s

95th percentile per-packet one-way delay: 85.160 ms

Loss rate: 0.00%

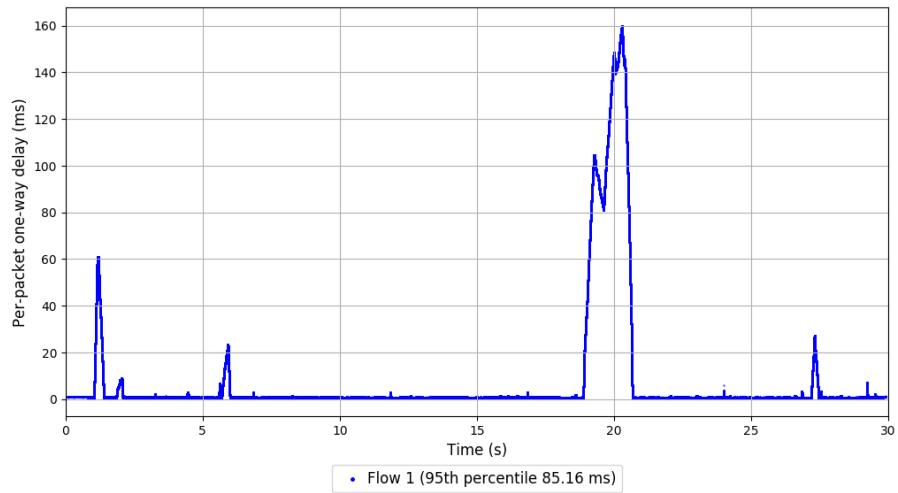
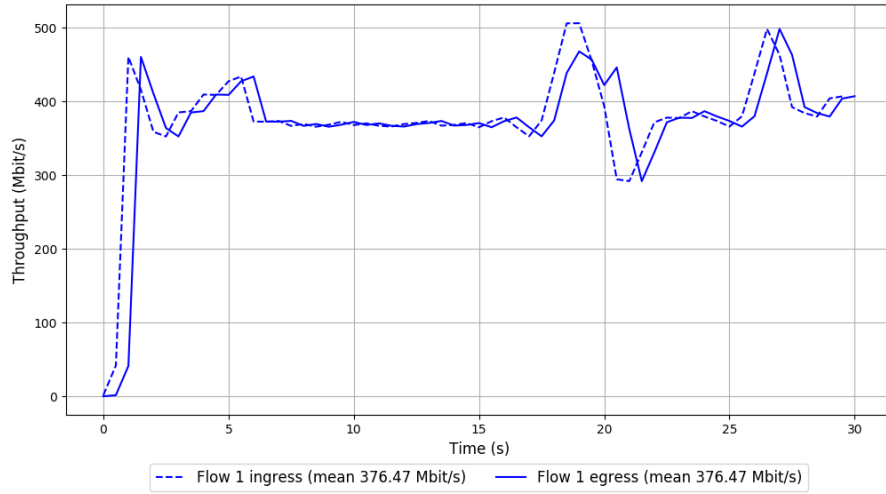
-- Flow 1:

Average throughput: 376.47 Mbit/s

95th percentile per-packet one-way delay: 85.160 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-11-23 22:49:01

End at: 2019-11-23 22:49:31

Local clock offset: 4.193 ms

Remote clock offset: 4.354 ms

Below is generated by plot.py at 2019-11-24 02:00:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 374.92 Mbit/s

95th percentile per-packet one-way delay: 24.060 ms

Loss rate: 0.08%

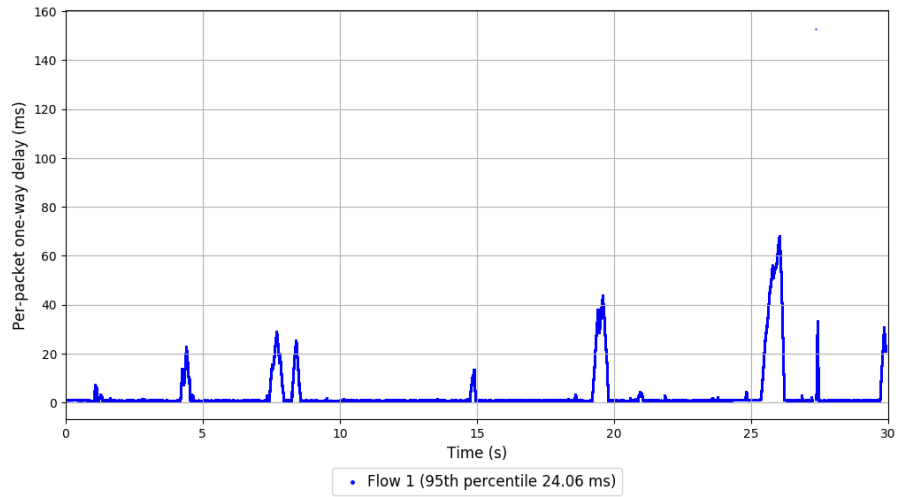
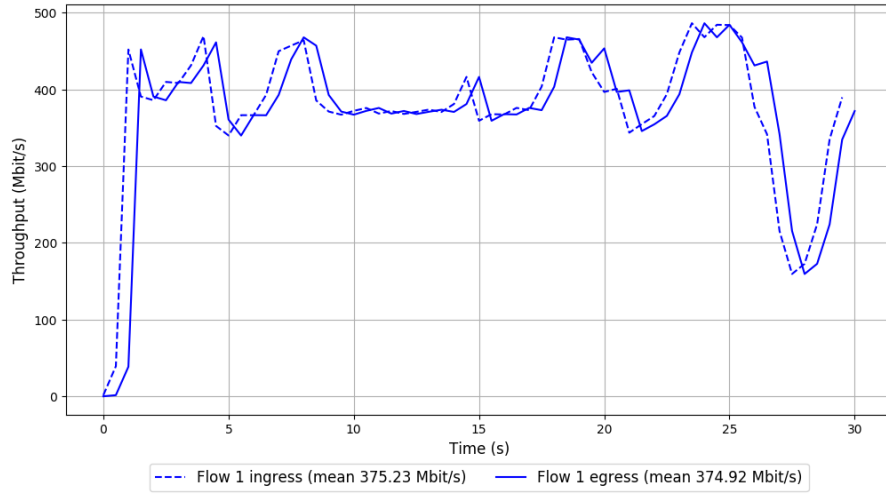
-- Flow 1:

Average throughput: 374.92 Mbit/s

95th percentile per-packet one-way delay: 24.060 ms

Loss rate: 0.08%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-11-23 23:22:06

End at: 2019-11-23 23:22:36

Local clock offset: 4.114 ms

Remote clock offset: 3.85 ms

Below is generated by plot.py at 2019-11-24 02:00:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 290.42 Mbit/s

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

Loss rate: 0.00%

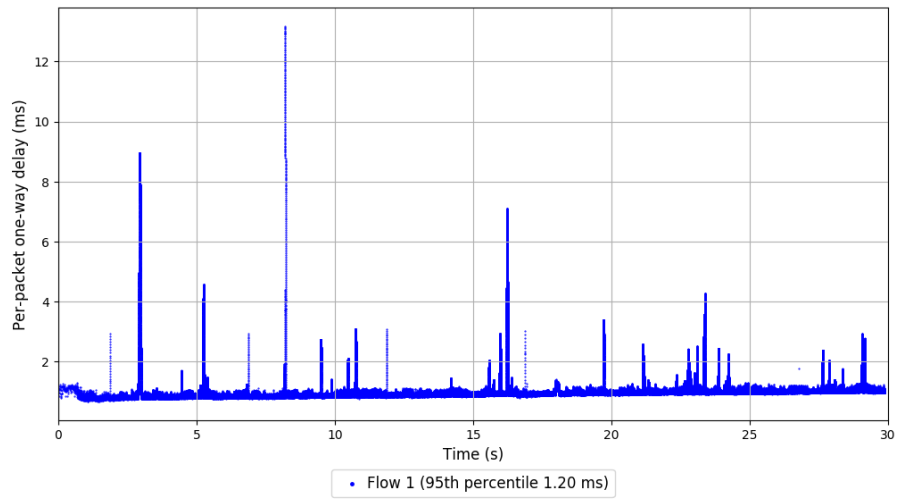
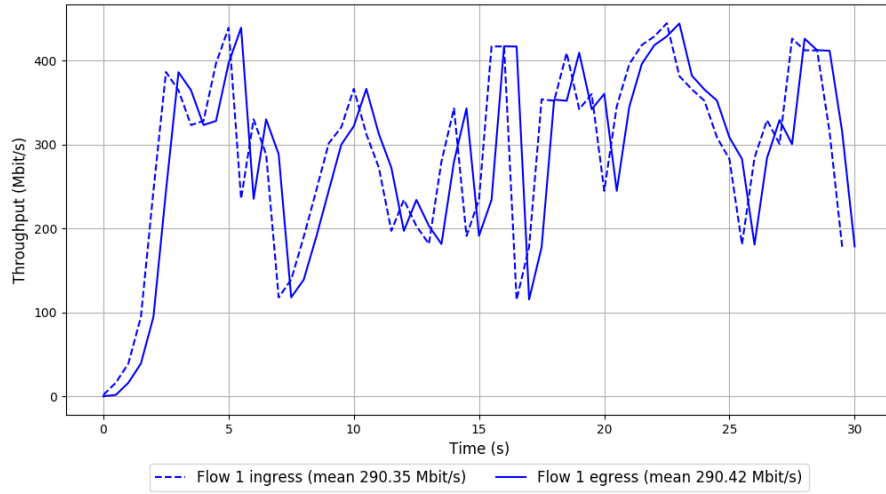
-- Flow 1:

Average throughput: 290.42 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-11-23 23:55:32

End at: 2019-11-23 23:56:02

Local clock offset: 3.502 ms

Remote clock offset: -1.538 ms

Below is generated by plot.py at 2019-11-24 02:00:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 378.65 Mbit/s

95th percentile per-packet one-way delay: 106.432 ms

Loss rate: 0.29%

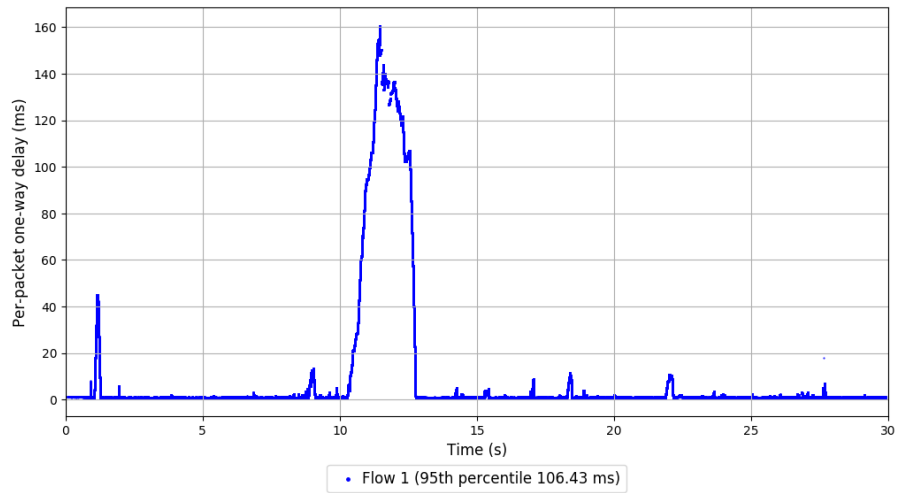
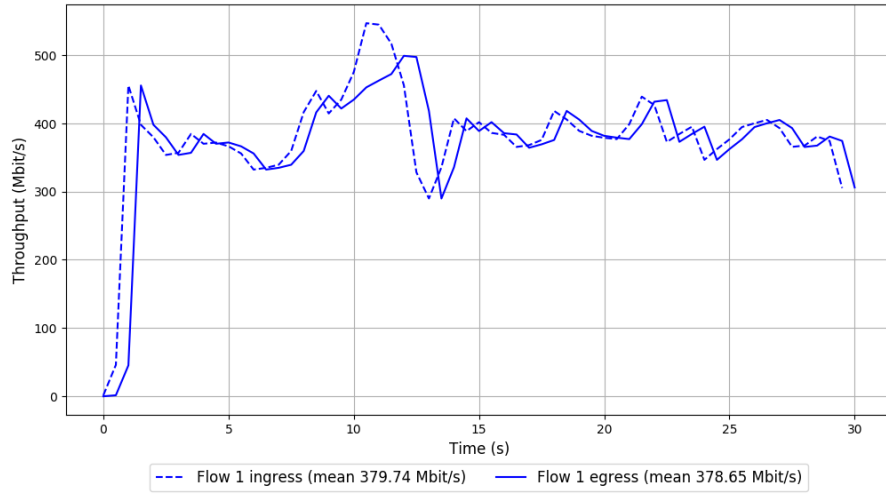
-- Flow 1:

Average throughput: 378.65 Mbit/s

95th percentile per-packet one-way delay: 106.432 ms

Loss rate: 0.29%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-11-24 00:27:52

End at: 2019-11-24 00:28:22

Local clock offset: 3.47 ms

Remote clock offset: -5.216 ms

Below is generated by plot.py at 2019-11-24 02:00:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 394.35 Mbit/s

95th percentile per-packet one-way delay: 10.899 ms

Loss rate: 0.00%

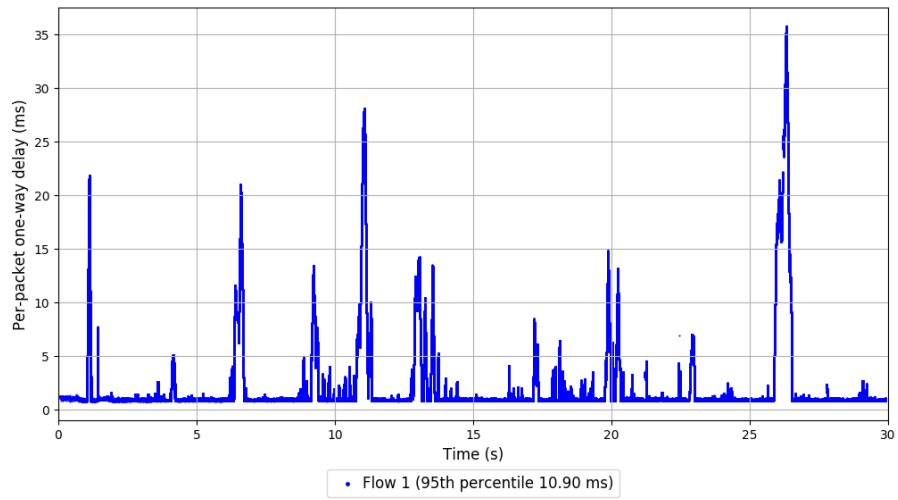
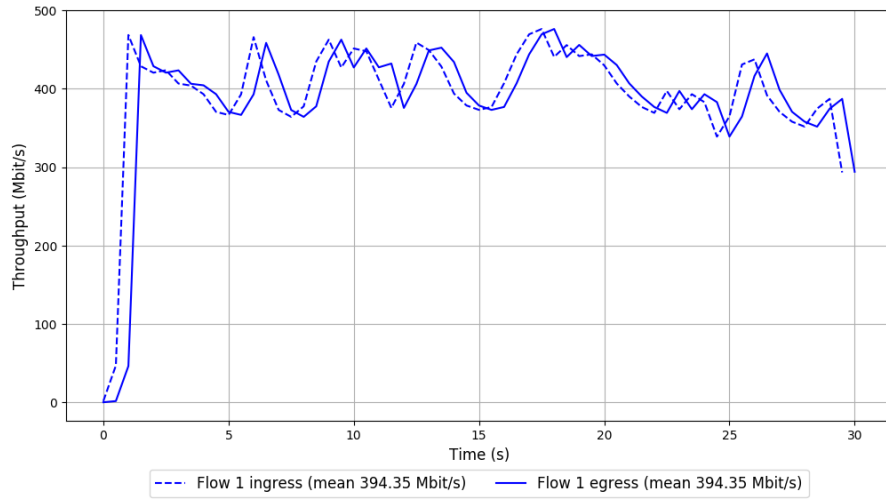
-- Flow 1:

Average throughput: 394.35 Mbit/s

95th percentile per-packet one-way delay: 10.899 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-11-23 22:27:52

End at: 2019-11-23 22:28:22

Local clock offset: 4.287 ms

Remote clock offset: 2.847 ms

Below is generated by plot.py at 2019-11-24 02:00:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 2.327 ms

Loss rate: 0.00%

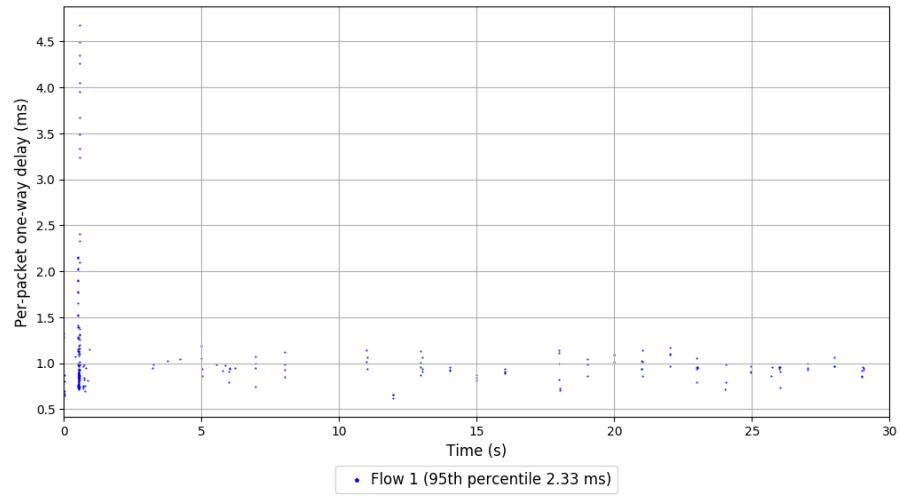
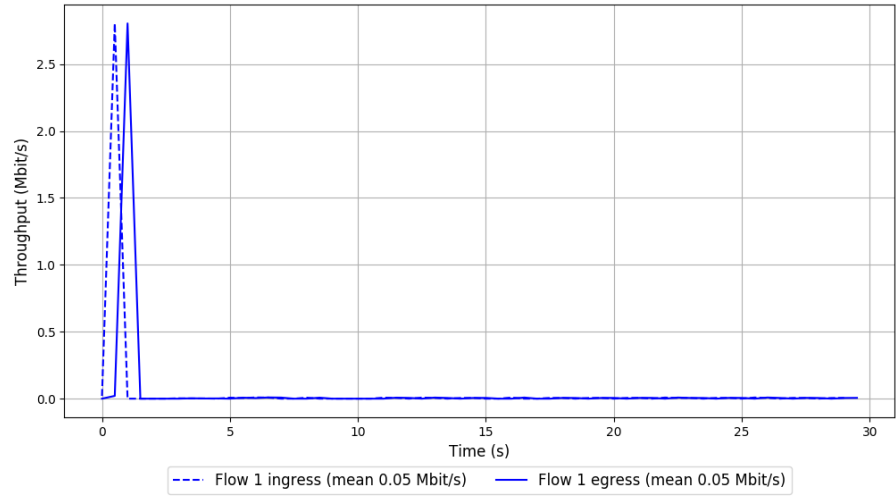
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 2.327 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-11-23 23:01:10

End at: 2019-11-23 23:01:40

Local clock offset: 4.223 ms

Remote clock offset: 3.647 ms

Below is generated by plot.py at 2019-11-24 02:00:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.965 ms

Loss rate: 0.00%

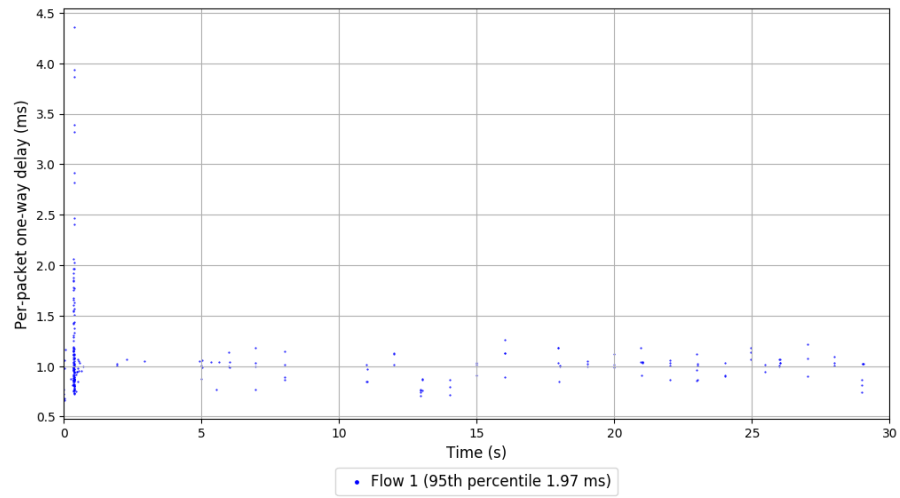
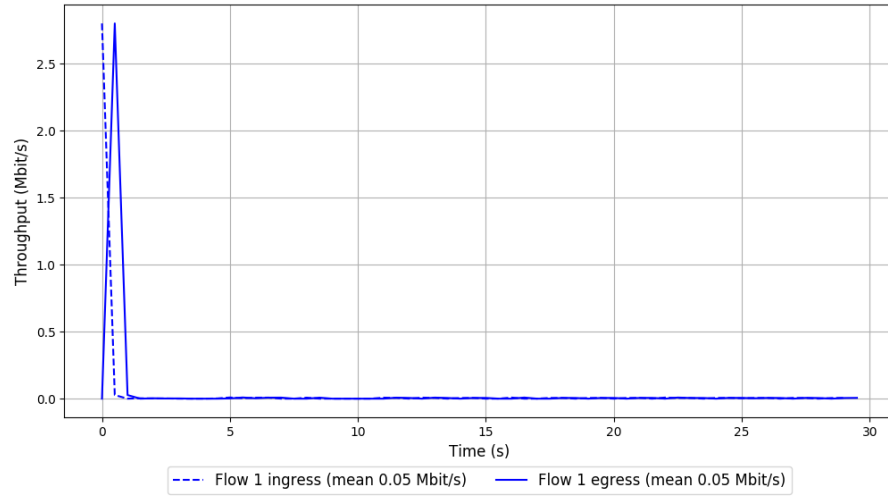
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.965 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-11-23 23:34:39

End at: 2019-11-23 23:35:09

Local clock offset: 4.321 ms

Remote clock offset: 0.3 ms

Below is generated by plot.py at 2019-11-24 02:00:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 3.209 ms

Loss rate: 0.00%

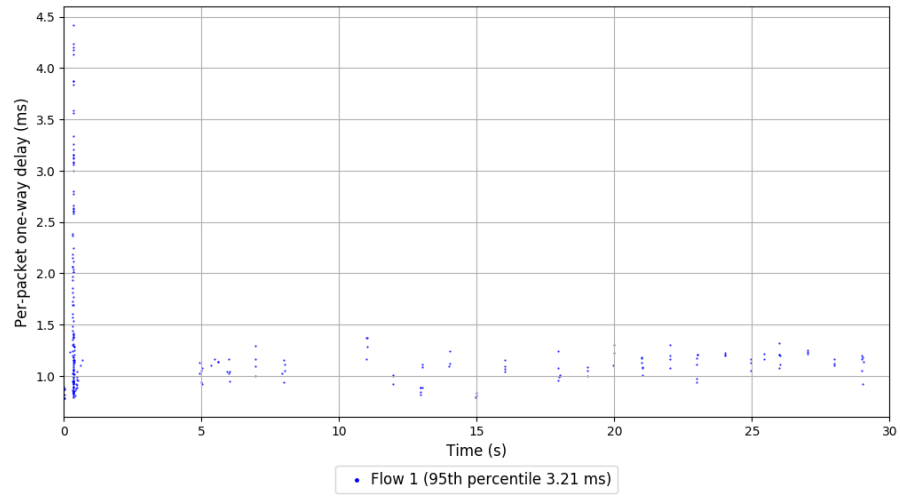
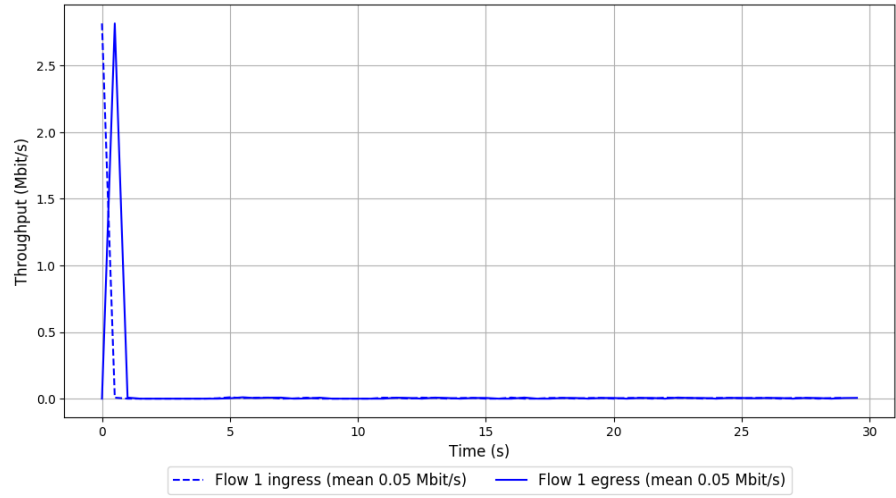
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 3.209 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-11-24 00:07:44

End at: 2019-11-24 00:08:14

Local clock offset: 3.505 ms

Remote clock offset: -3.374 ms

Below is generated by plot.py at 2019-11-24 02:00:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 1.192 ms

Loss rate: 0.00%

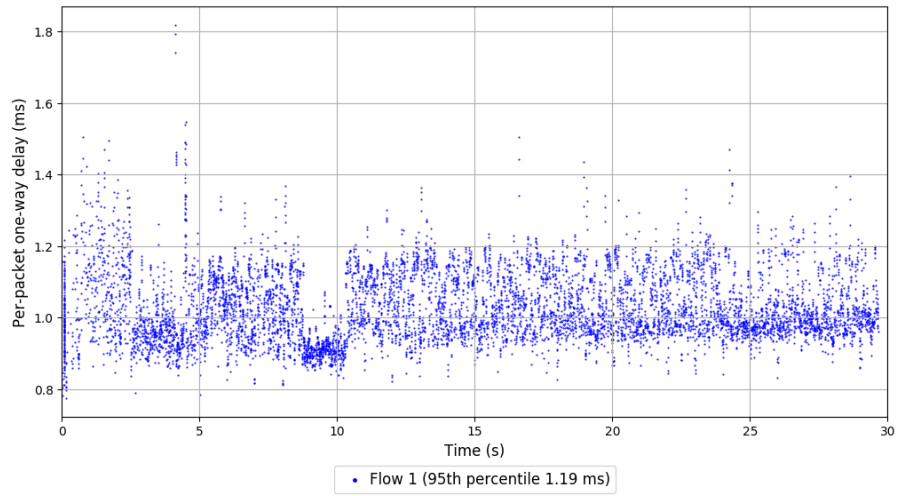
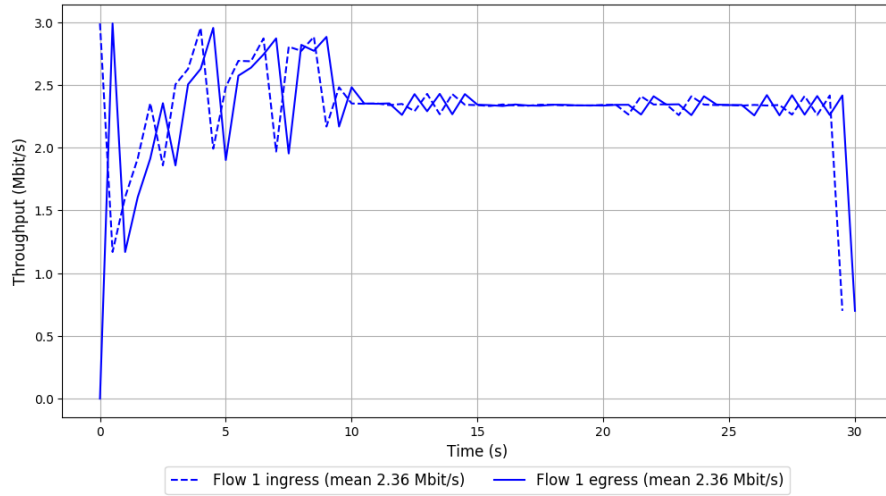
-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 1.192 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-11-24 00:40:23

End at: 2019-11-24 00:40:53

Local clock offset: 3.568 ms

Remote clock offset: -1.429 ms

Below is generated by plot.py at 2019-11-24 02:00:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.33 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

