

Pantheon Report

Generated at 2019-12-11 13:18:05 (UTC).

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

Repeated the test of 24 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

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

System info:

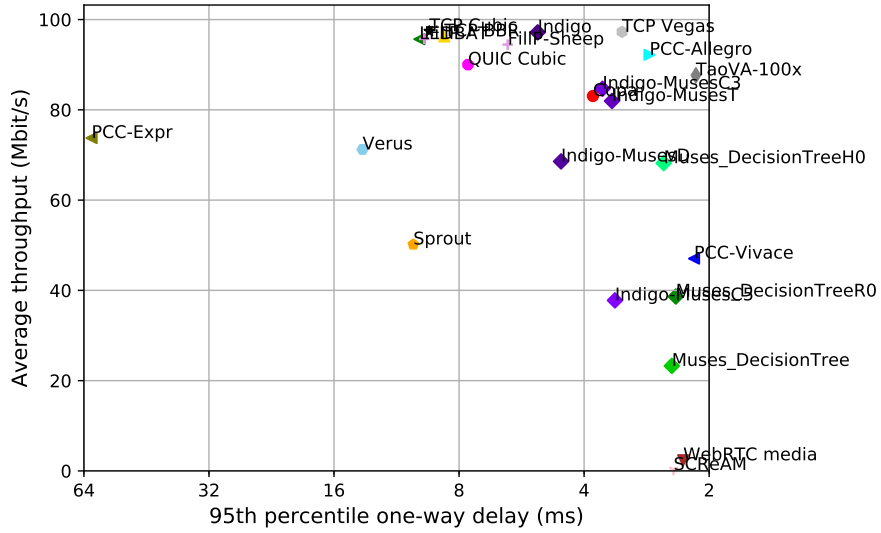
```
Linux 4.15.0-1054-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

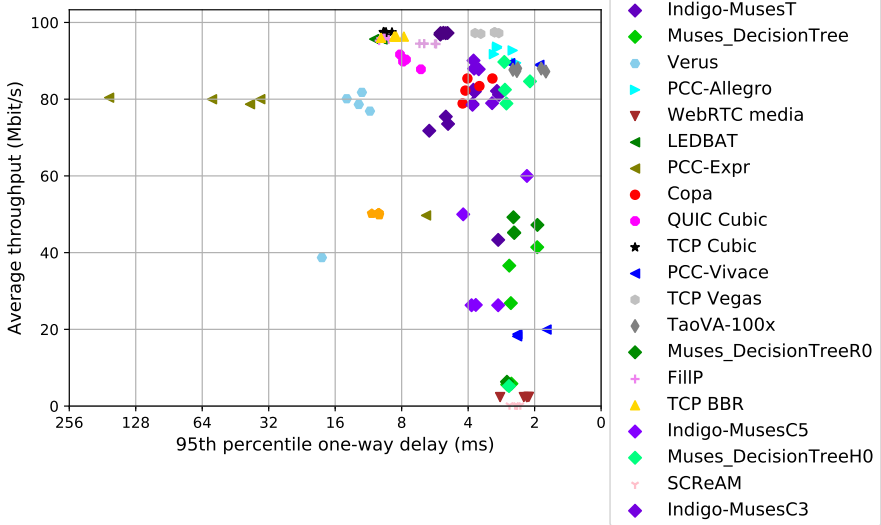
```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
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 Brazil to AWS Brazil 1, 5 runs of 30s each per scheme
 (mean of all runs by scheme)



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



scheme	# runs	mean avg tput (Mbit/s)	mean 95th-%ile delay (ms)	mean loss rate (%)
		flow 1	flow 1	flow 1
TCP BBR	5	96.26	8.68	0.05
Copa	5	83.06	3.81	0.01
TCP Cubic	5	97.42	9.43	0.05
FillP	5	95.72	9.70	0.04
FillP-Sheep	5	94.44	6.11	0.03
Indigo	5	97.17	5.17	0.02
Indigo-MusesC3	5	84.67	3.61	0.02
Indigo-MusesC5	5	37.78	3.37	0.01
Indigo-MusesD	5	68.57	4.55	0.01
Indigo-MusesT	5	81.96	3.43	0.02
LEDBAT	5	95.66	9.97	0.08
Muses_DecisionTree	5	23.27	2.46	0.01
Muses_DecisionTreeH0	5	68.18	2.57	0.01
Muses_DecisionTreeR0	5	38.64	2.41	0.01
PCC-Allegro	5	92.19	2.78	0.02
PCC-Expr	5	73.75	61.36	0.59
QUIC Cubic	5	90.01	7.61	0.02
SCReAM	5	0.21	2.44	0.08
Sprout	5	50.17	10.31	0.04
TaoVA-100x	5	87.64	2.15	0.02
TCP Vegas	5	97.27	3.24	0.02
Verus	5	71.22	13.66	0.03
PCC-Vivace	5	47.04	2.17	0.01
WebRTC media	5	2.36	2.31	0.02

Run 1: Statistics of TCP BBR

Start at: 2019-12-11 10:52:33
End at: 2019-12-11 10:53:03
Local clock offset: -6.135 ms
Remote clock offset: -0.067 ms

Below is generated by plot.py at 2019-12-11 13:04:30

Datalink statistics

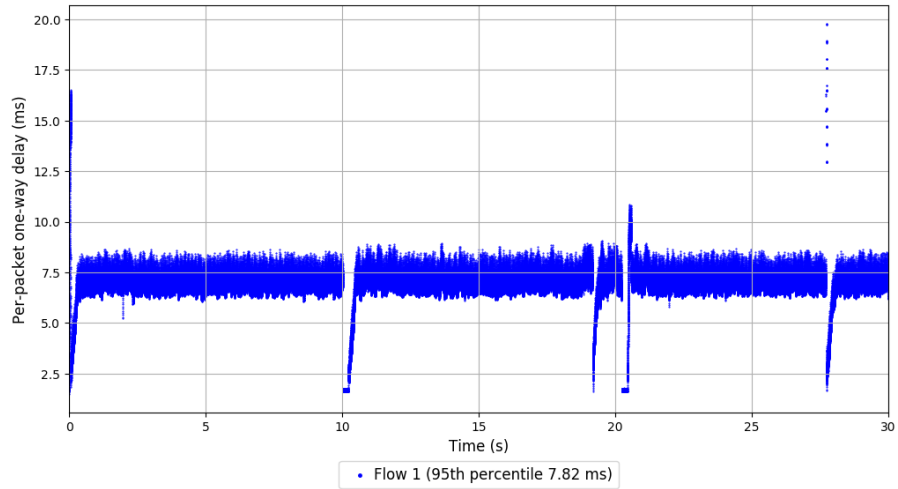
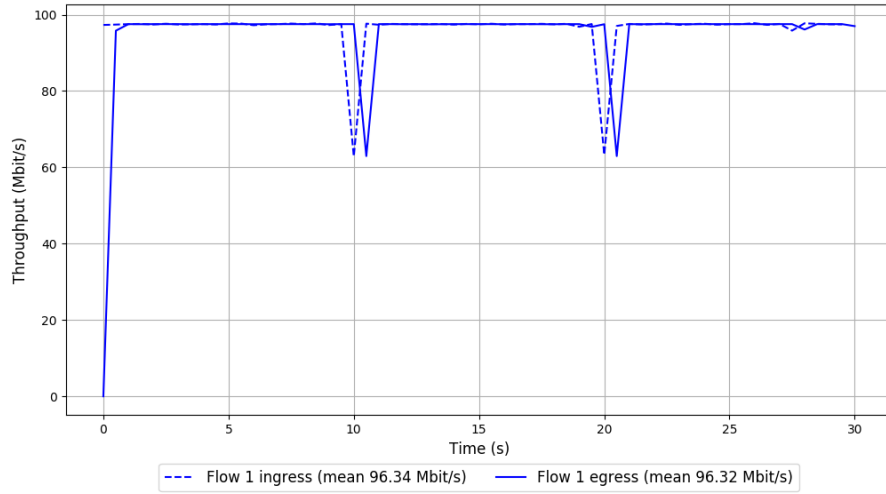
-- Total of 1 flow:

Average throughput: 96.32 Mbit/s
95th percentile per-packet one-way delay: 7.820 ms
Loss rate: 0.03%

-- Flow 1:

Average throughput: 96.32 Mbit/s
95th percentile per-packet one-way delay: 7.820 ms
Loss rate: 0.03%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-12-11 11:19:35

End at: 2019-12-11 11:20:05

Local clock offset: -6.202 ms

Remote clock offset: 0.163 ms

Below is generated by plot.py at 2019-12-11 13:04:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.34 Mbit/s

95th percentile per-packet one-way delay: 8.646 ms

Loss rate: 0.03%

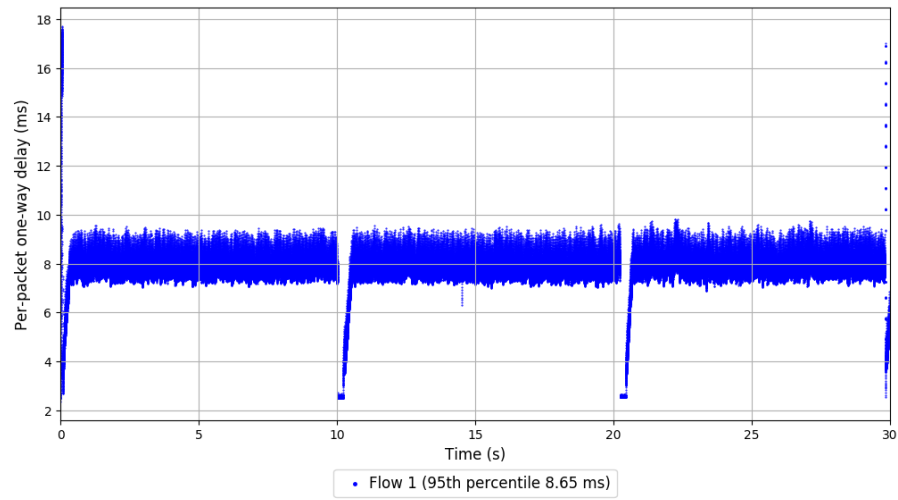
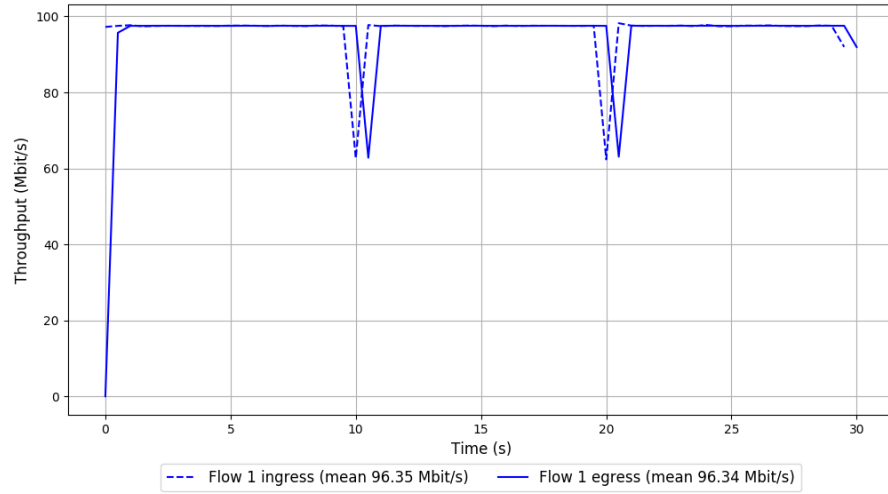
-- Flow 1:

Average throughput: 96.34 Mbit/s

95th percentile per-packet one-way delay: 8.646 ms

Loss rate: 0.03%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-12-11 11:46:40

End at: 2019-12-11 11:47:10

Local clock offset: -5.892 ms

Remote clock offset: 0.406 ms

Below is generated by plot.py at 2019-12-11 13:04:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.33 Mbit/s

95th percentile per-packet one-way delay: 8.570 ms

Loss rate: 0.03%

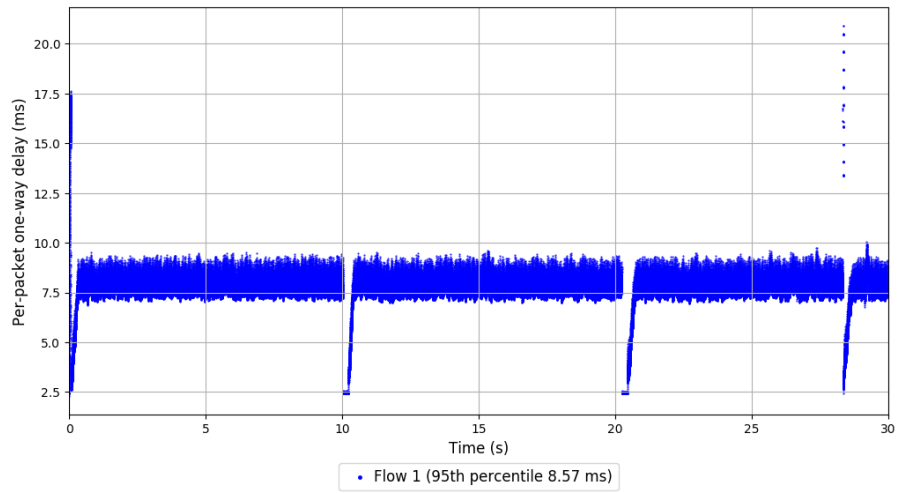
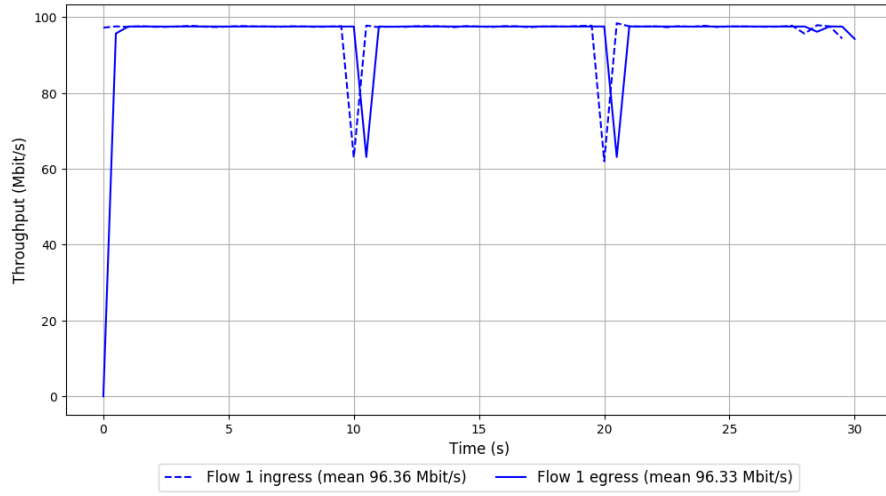
-- Flow 1:

Average throughput: 96.33 Mbit/s

95th percentile per-packet one-way delay: 8.570 ms

Loss rate: 0.03%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-12-11 12:13:38

End at: 2019-12-11 12:14:08

Local clock offset: -5.441 ms

Remote clock offset: 0.611 ms

Below is generated by plot.py at 2019-12-11 13:04:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.33 Mbit/s

95th percentile per-packet one-way delay: 8.464 ms

Loss rate: 0.03%

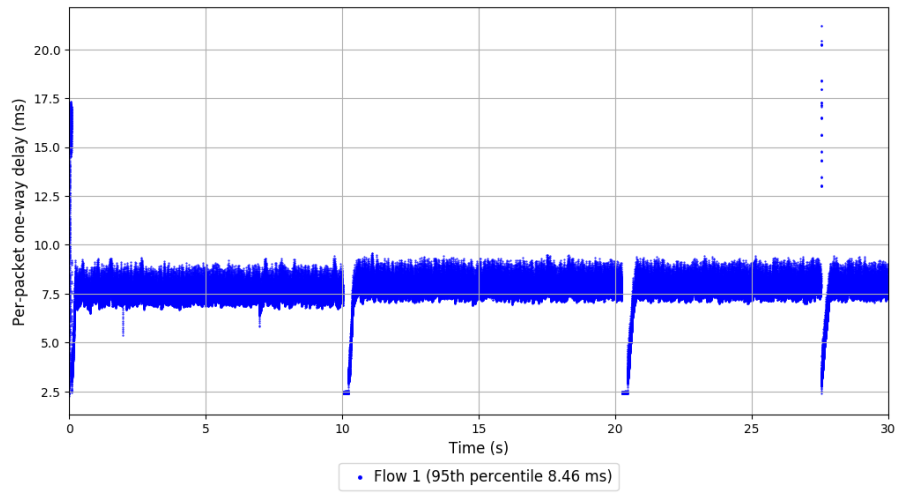
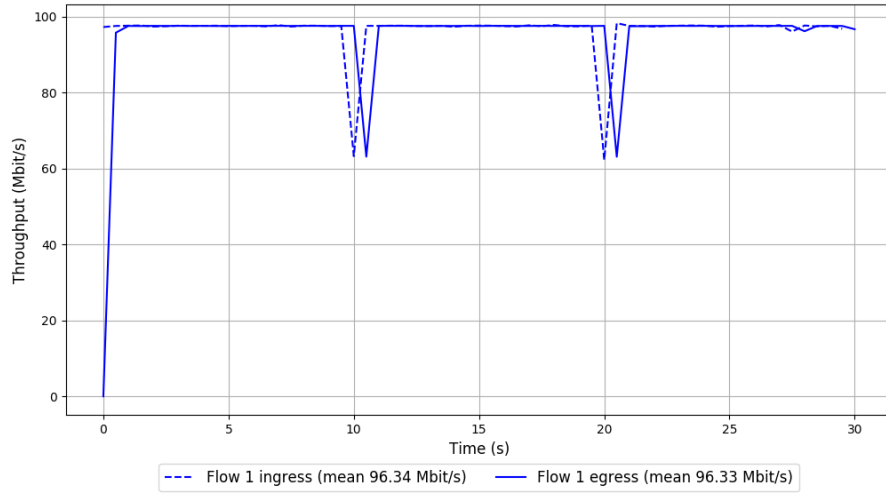
-- Flow 1:

Average throughput: 96.33 Mbit/s

95th percentile per-packet one-way delay: 8.464 ms

Loss rate: 0.03%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-12-11 12:40:35

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

Local clock offset: -4.682 ms

Remote clock offset: 0.741 ms

Below is generated by plot.py at 2019-12-11 13:04:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.99 Mbit/s

95th percentile per-packet one-way delay: 9.918 ms

Loss rate: 0.14%

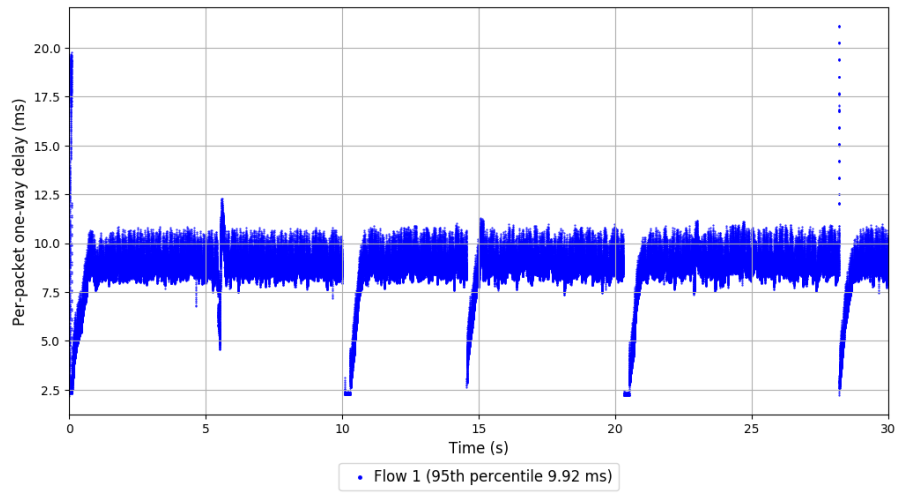
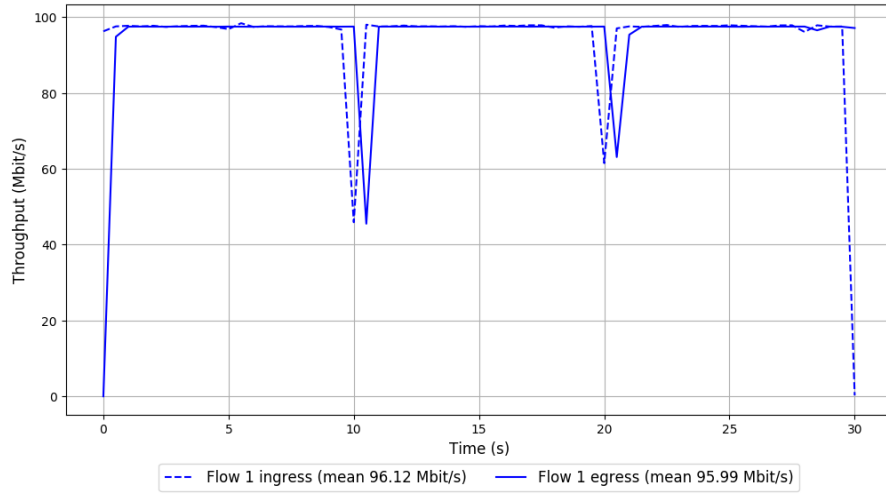
-- Flow 1:

Average throughput: 95.99 Mbit/s

95th percentile per-packet one-way delay: 9.918 ms

Loss rate: 0.14%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-12-11 11:09:27

End at: 2019-12-11 11:09:57

Local clock offset: -5.47 ms

Remote clock offset: -0.014 ms

Below is generated by plot.py at 2019-12-11 13:05:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.39 Mbit/s

95th percentile per-packet one-way delay: 4.031 ms

Loss rate: 0.01%

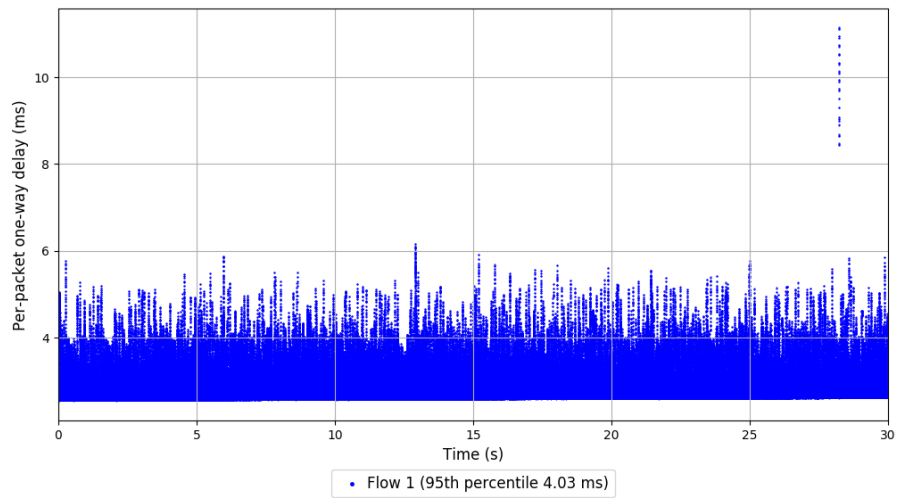
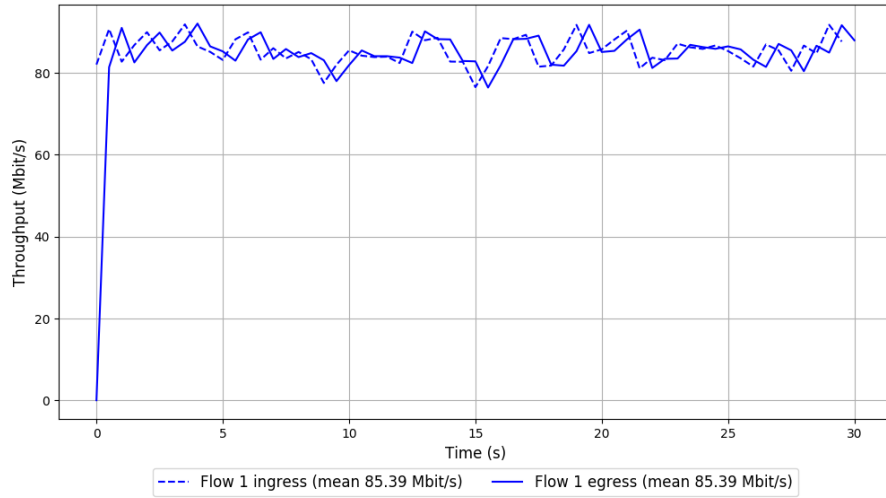
-- Flow 1:

Average throughput: 85.39 Mbit/s

95th percentile per-packet one-way delay: 4.031 ms

Loss rate: 0.01%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-12-11 11:36:29

End at: 2019-12-11 11:36:59

Local clock offset: -6.69 ms

Remote clock offset: 0.38 ms

Below is generated by plot.py at 2019-12-11 13:05:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.24 Mbit/s

95th percentile per-packet one-way delay: 4.116 ms

Loss rate: 0.02%

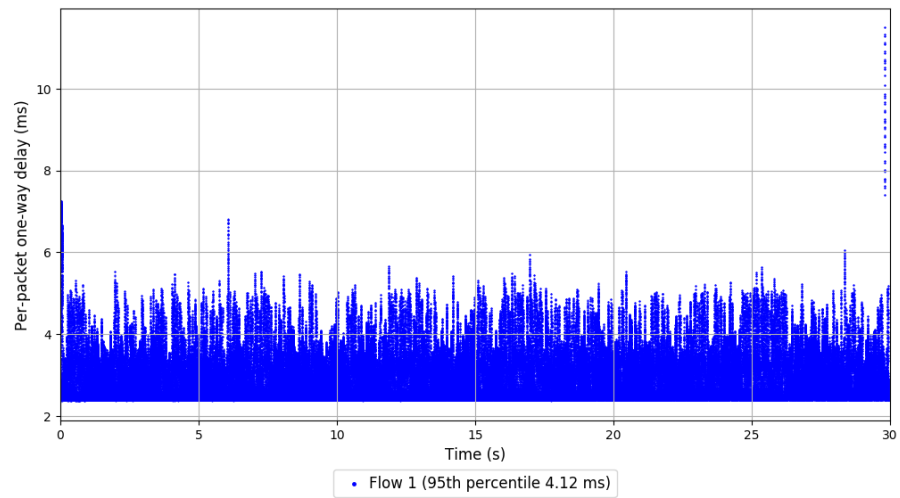
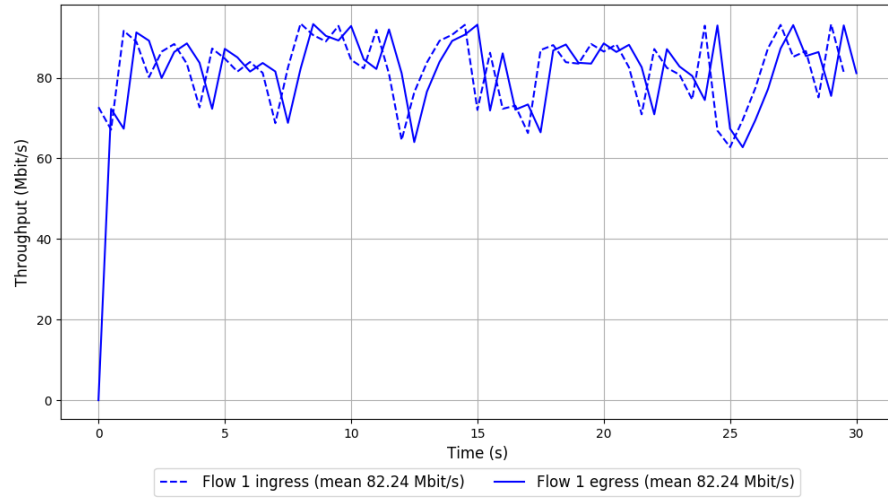
-- Flow 1:

Average throughput: 82.24 Mbit/s

95th percentile per-packet one-way delay: 4.116 ms

Loss rate: 0.02%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-12-11 12:03:28

End at: 2019-12-11 12:03:58

Local clock offset: -6.107 ms

Remote clock offset: 0.436 ms

Below is generated by plot.py at 2019-12-11 13:05:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.41 Mbit/s

95th percentile per-packet one-way delay: 3.557 ms

Loss rate: 0.01%

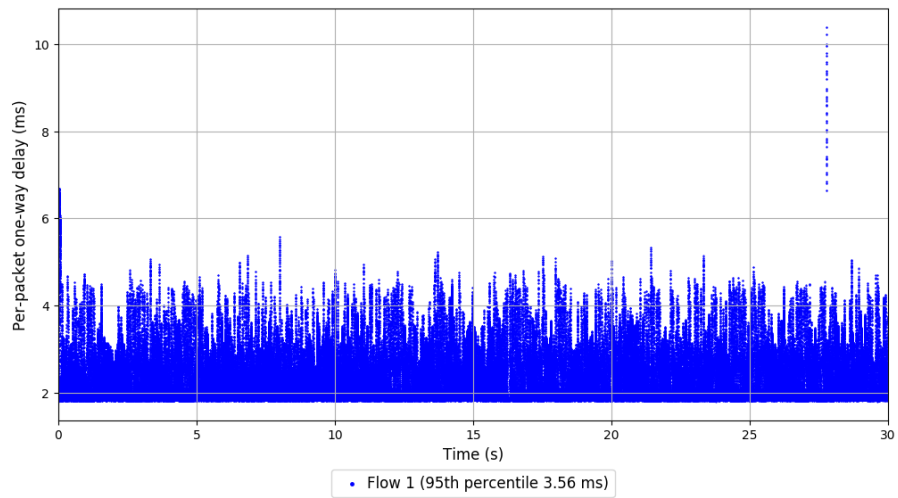
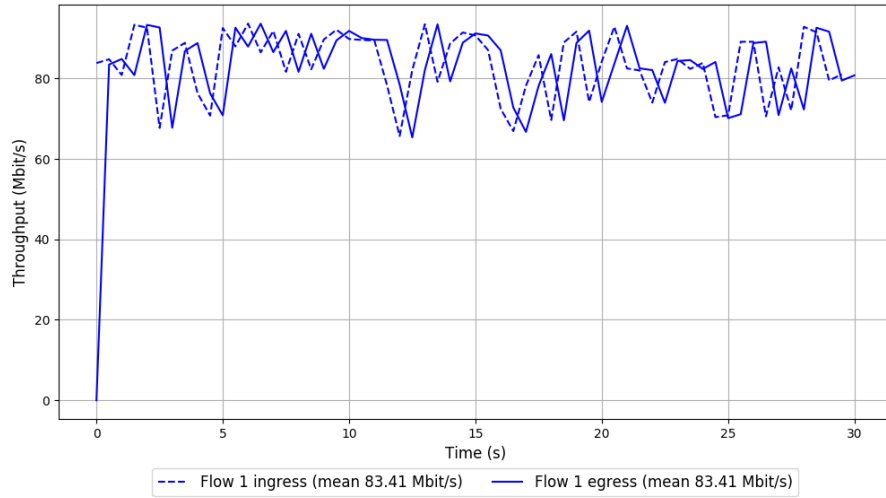
-- Flow 1:

Average throughput: 83.41 Mbit/s

95th percentile per-packet one-way delay: 3.557 ms

Loss rate: 0.01%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-12-11 12:30:24

End at: 2019-12-11 12:30:54

Local clock offset: -6.072 ms

Remote clock offset: 0.745 ms

Below is generated by plot.py at 2019-12-11 13:06:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.39 Mbit/s

95th percentile per-packet one-way delay: 3.106 ms

Loss rate: 0.01%

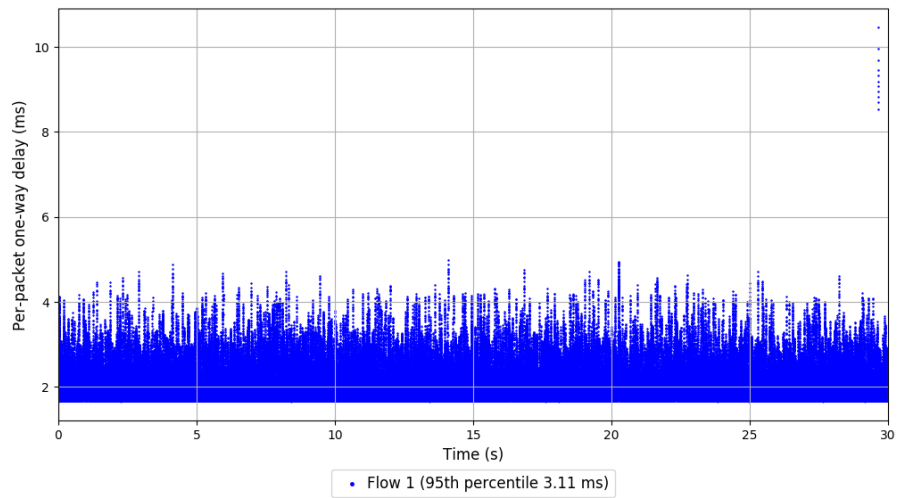
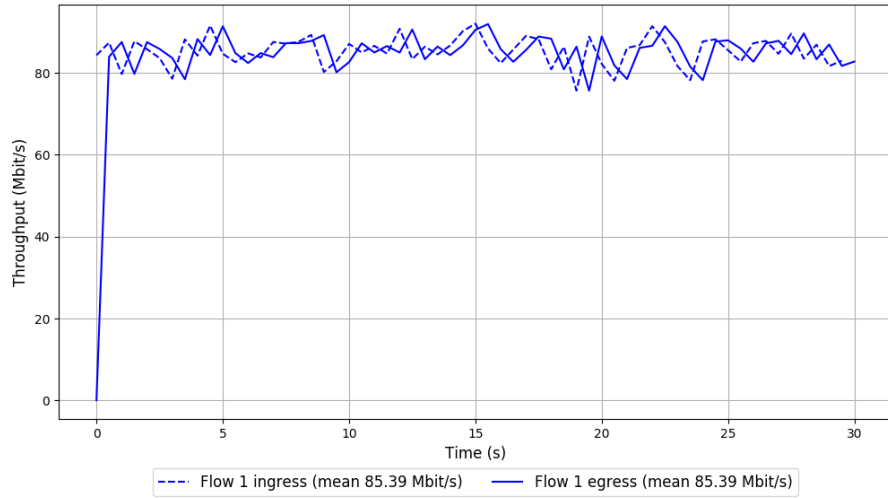
-- Flow 1:

Average throughput: 85.39 Mbit/s

95th percentile per-packet one-way delay: 3.106 ms

Loss rate: 0.01%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-12-11 12:57:25

End at: 2019-12-11 12:57:55

Local clock offset: -2.385 ms

Remote clock offset: 0.526 ms

Below is generated by plot.py at 2019-12-11 13:06:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.88 Mbit/s

95th percentile per-packet one-way delay: 4.237 ms

Loss rate: 0.02%

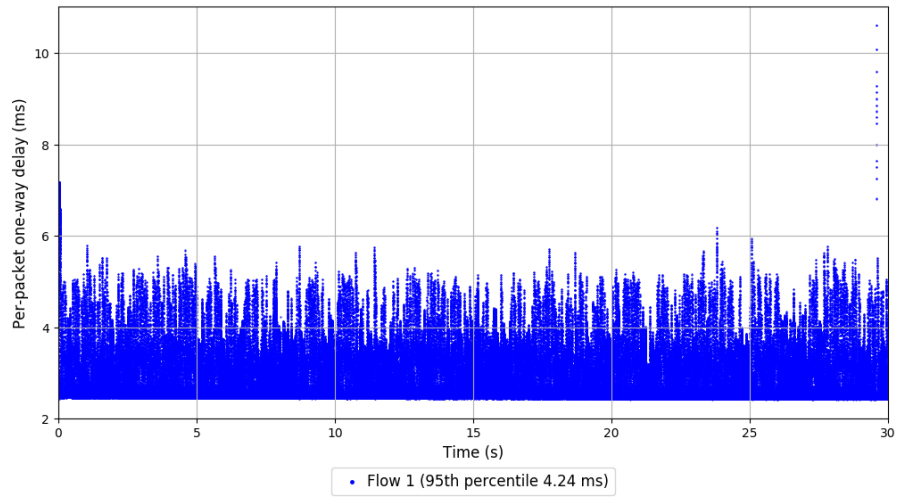
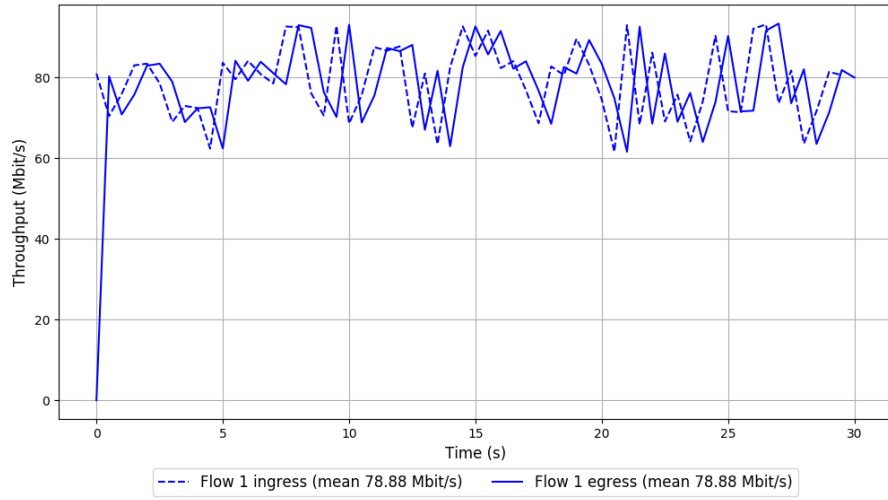
-- Flow 1:

Average throughput: 78.88 Mbit/s

95th percentile per-packet one-way delay: 4.237 ms

Loss rate: 0.02%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-12-11 10:58:14
End at: 2019-12-11 10:58:44
Local clock offset: -5.353 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2019-12-11 13:06:25

Datalink statistics

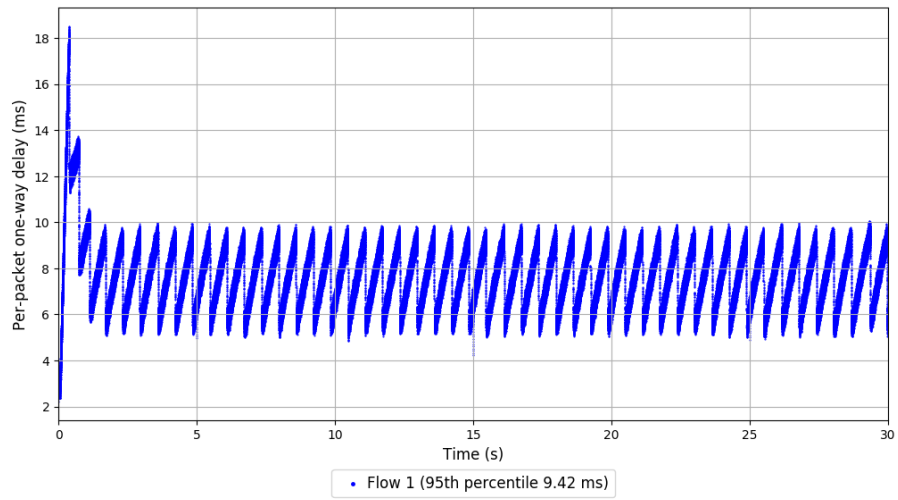
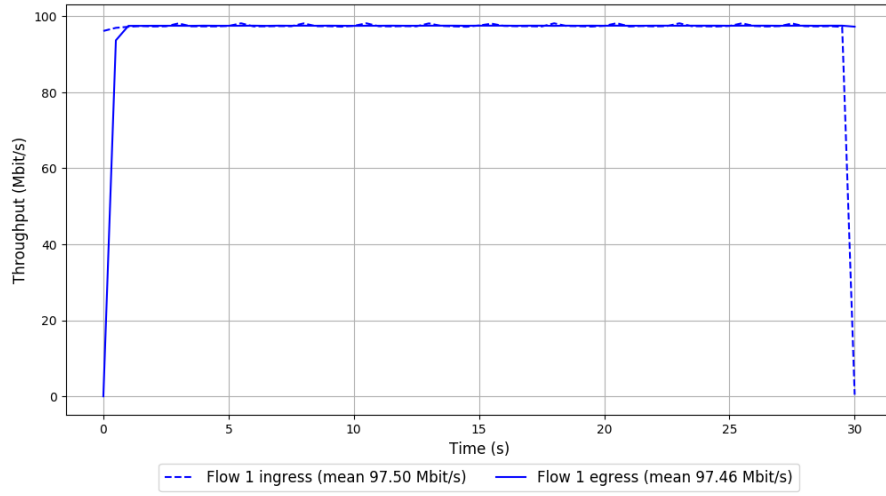
-- Total of 1 flow:

Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 9.418 ms
Loss rate: 0.05%

-- Flow 1:

Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 9.418 ms
Loss rate: 0.05%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-12-11 11:25:15

End at: 2019-12-11 11:25:45

Local clock offset: -7.107 ms

Remote clock offset: 0.241 ms

Below is generated by plot.py at 2019-12-11 13:06:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.43 Mbit/s

95th percentile per-packet one-way delay: 8.851 ms

Loss rate: 0.06%

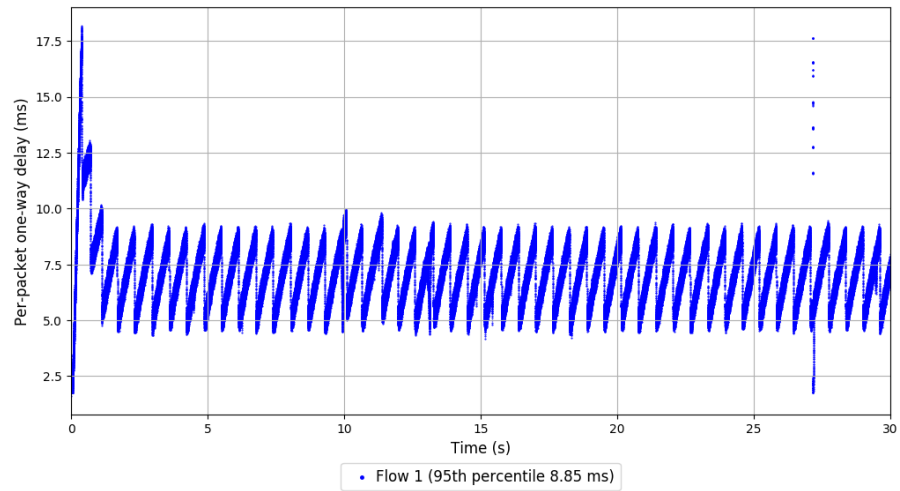
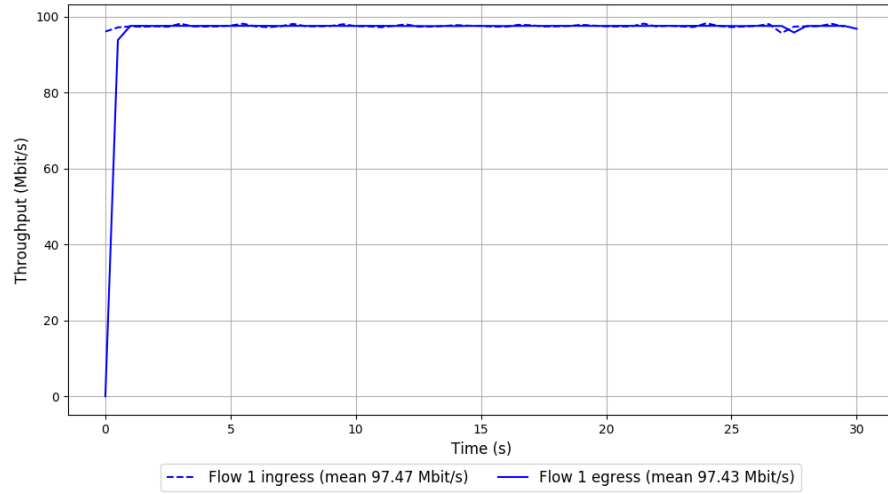
-- Flow 1:

Average throughput: 97.43 Mbit/s

95th percentile per-packet one-way delay: 8.851 ms

Loss rate: 0.06%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2019-12-11 11:52:16

End at: 2019-12-11 11:52:47

Local clock offset: -5.622 ms

Remote clock offset: 0.487 ms

Below is generated by plot.py at 2019-12-11 13:06:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.50 Mbit/s

95th percentile per-packet one-way delay: 9.666 ms

Loss rate: 0.05%

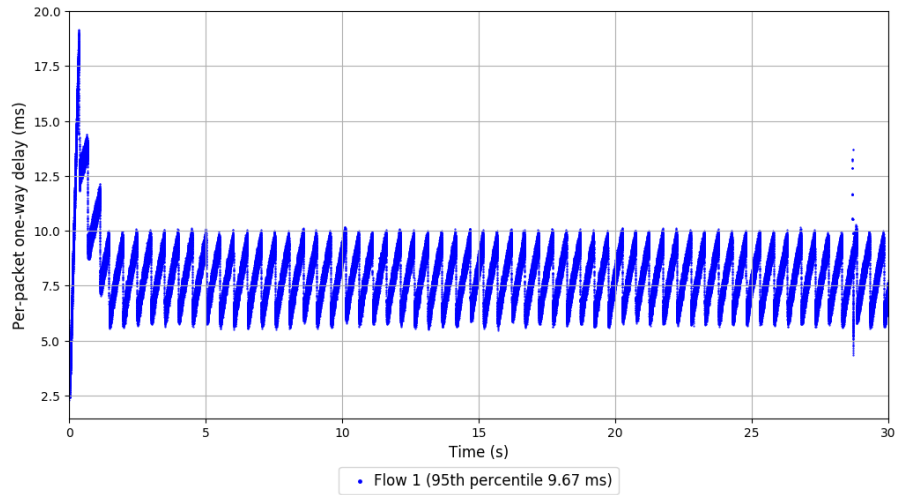
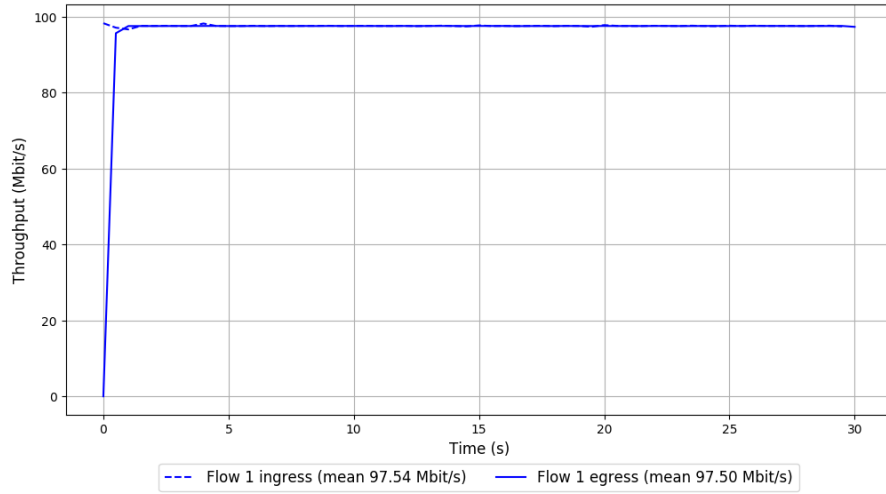
-- Flow 1:

Average throughput: 97.50 Mbit/s

95th percentile per-packet one-way delay: 9.666 ms

Loss rate: 0.05%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-12-11 12:19:14

End at: 2019-12-11 12:19:44

Local clock offset: -5.372 ms

Remote clock offset: 0.67 ms

Below is generated by plot.py at 2019-12-11 13:06:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.50 Mbit/s

95th percentile per-packet one-way delay: 9.640 ms

Loss rate: 0.05%

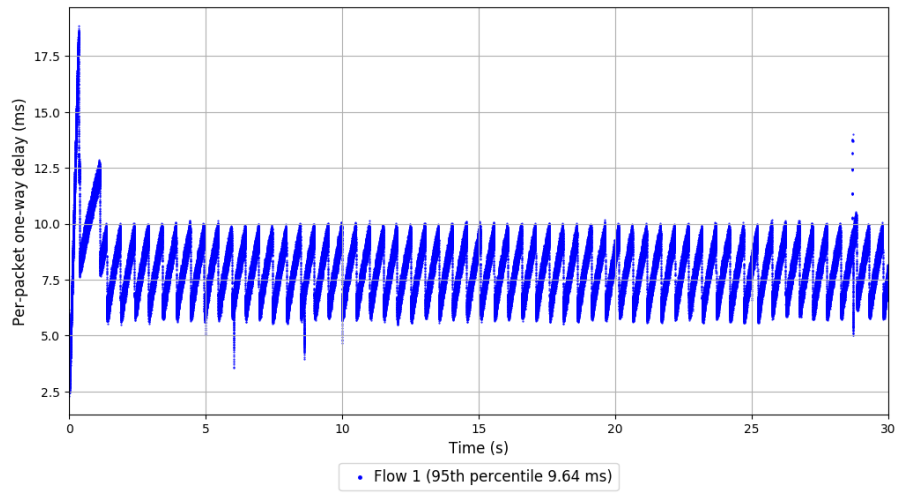
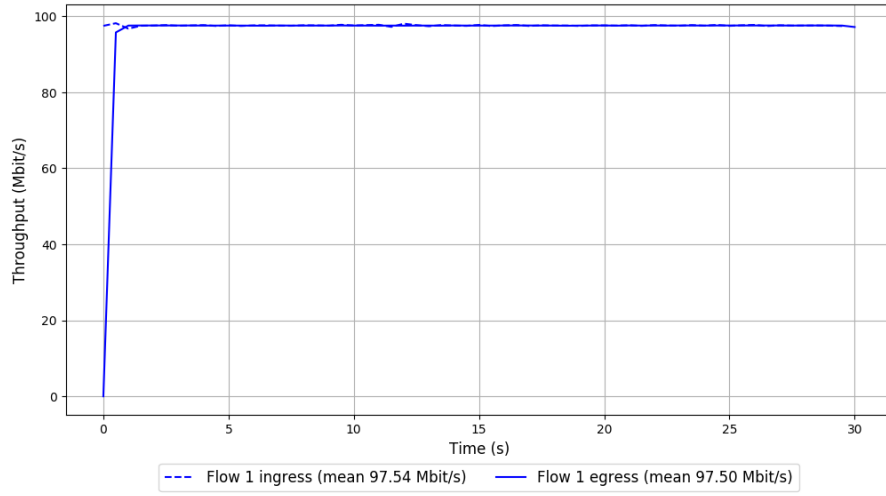
-- Flow 1:

Average throughput: 97.50 Mbit/s

95th percentile per-packet one-way delay: 9.640 ms

Loss rate: 0.05%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-12-11 12:46:12

End at: 2019-12-11 12:46:42

Local clock offset: -3.583 ms

Remote clock offset: 0.664 ms

Below is generated by plot.py at 2019-12-11 13:06:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.20 Mbit/s

95th percentile per-packet one-way delay: 9.590 ms

Loss rate: 0.06%

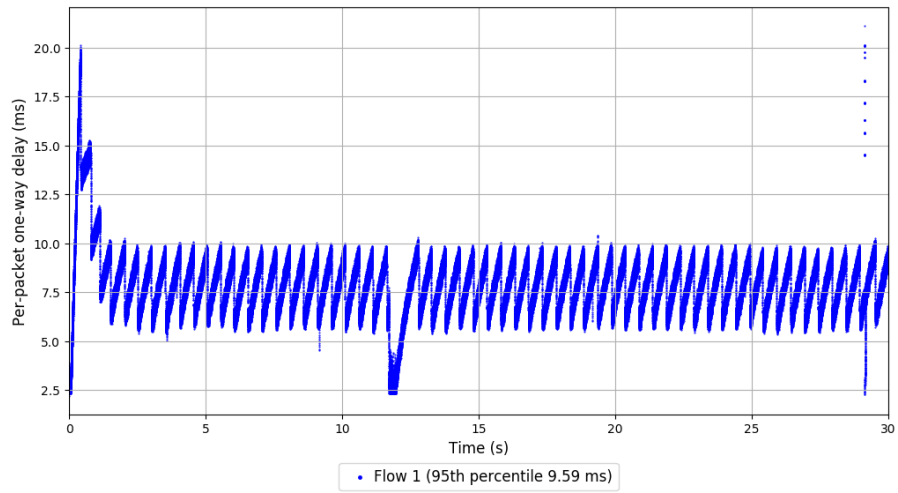
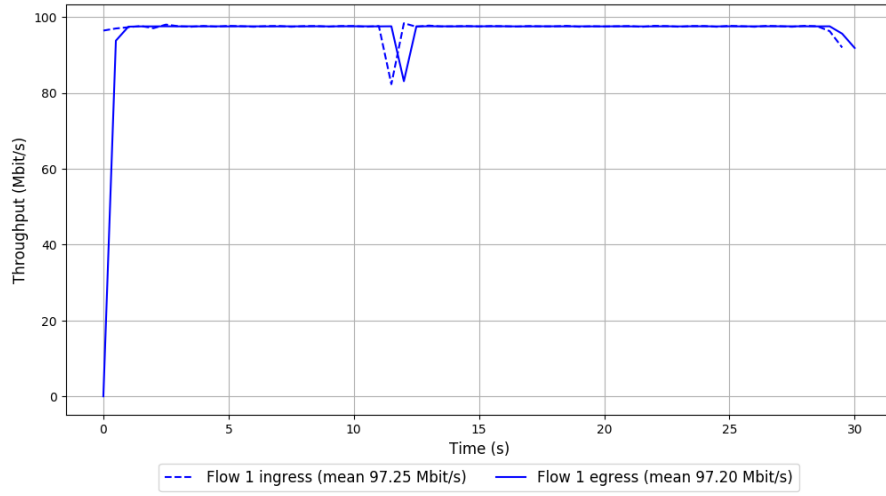
-- Flow 1:

Average throughput: 97.20 Mbit/s

95th percentile per-packet one-way delay: 9.590 ms

Loss rate: 0.06%

Run 5: Report of TCP Cubic — Data Link

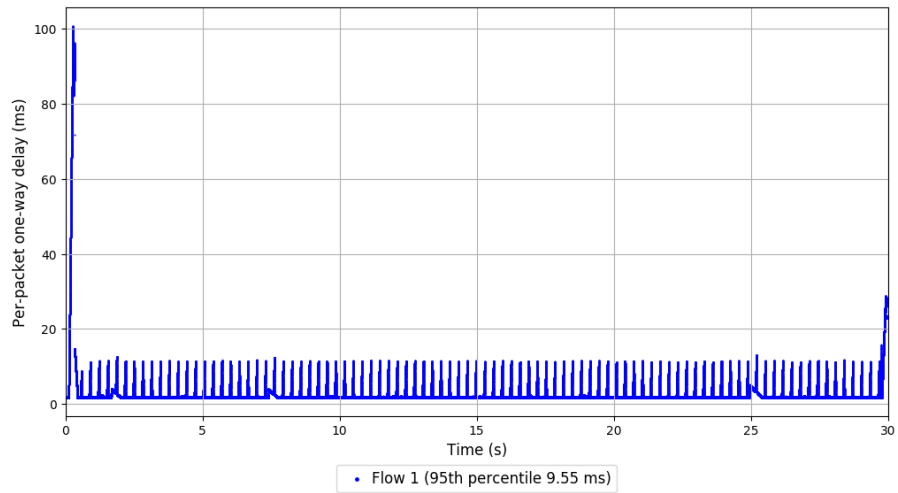
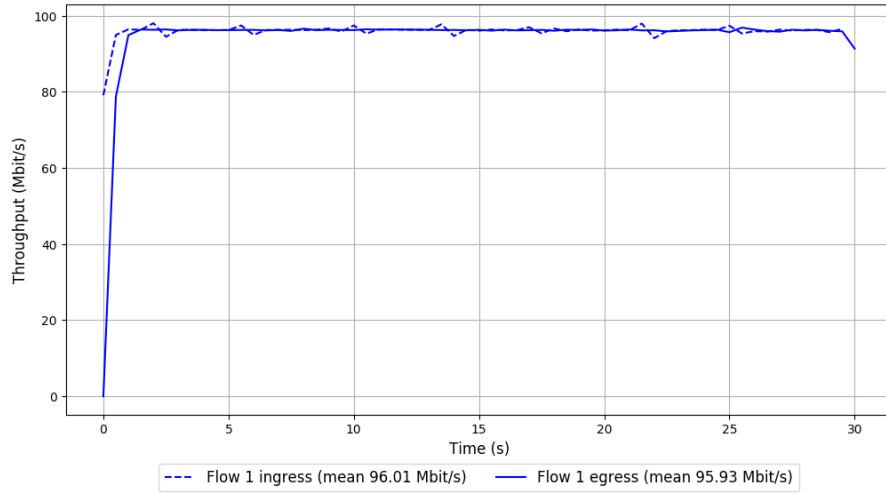


Run 1: Statistics of FillP

Start at: 2019-12-11 11:02:46
End at: 2019-12-11 11:03:16
Local clock offset: -6.041 ms
Remote clock offset: -0.098 ms

Below is generated by plot.py at 2019-12-11 13:06:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.93 Mbit/s
95th percentile per-packet one-way delay: 9.554 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 95.93 Mbit/s
95th percentile per-packet one-way delay: 9.554 ms
Loss rate: 0.10%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-12-11 11:29:47

End at: 2019-12-11 11:30:17

Local clock offset: -7.23 ms

Remote clock offset: 0.279 ms

Below is generated by plot.py at 2019-12-11 13:06:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.25 Mbit/s

95th percentile per-packet one-way delay: 10.117 ms

Loss rate: 0.02%

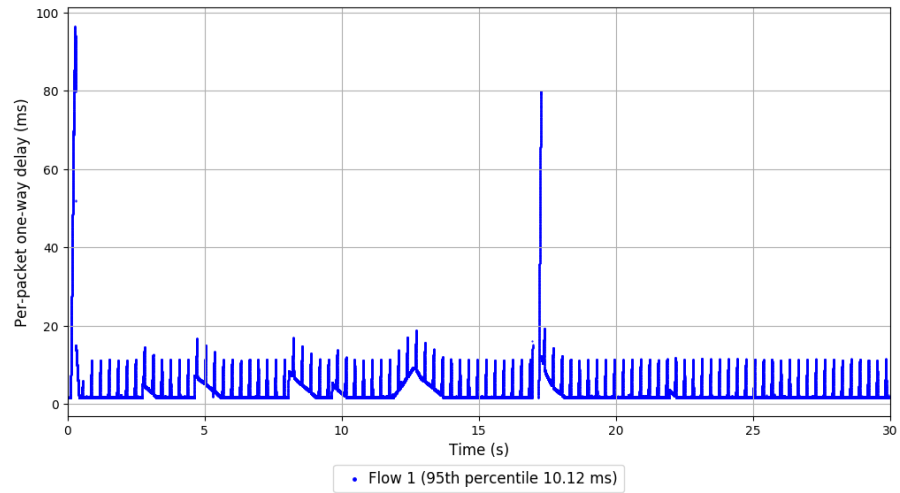
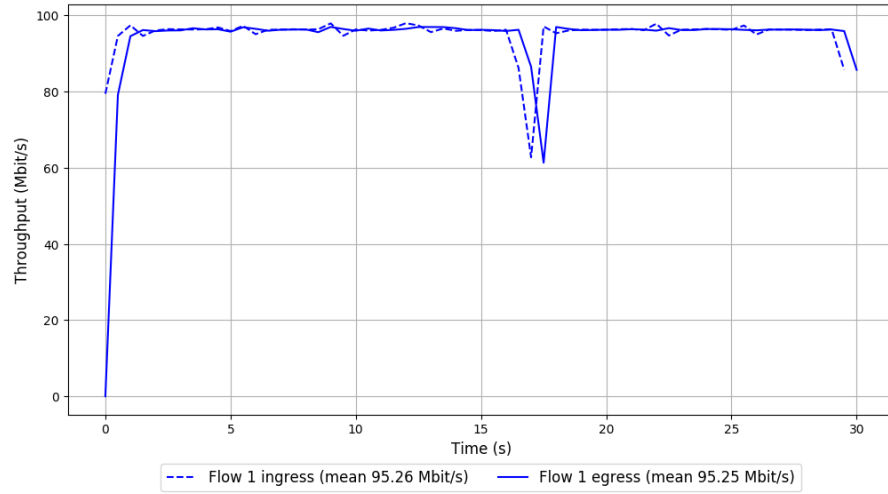
-- Flow 1:

Average throughput: 95.25 Mbit/s

95th percentile per-packet one-way delay: 10.117 ms

Loss rate: 0.02%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-12-11 11:56:49

End at: 2019-12-11 11:57:19

Local clock offset: -6.2 ms

Remote clock offset: 0.552 ms

Below is generated by plot.py at 2019-12-11 13:07:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.60 Mbit/s

95th percentile per-packet one-way delay: 9.165 ms

Loss rate: 0.03%

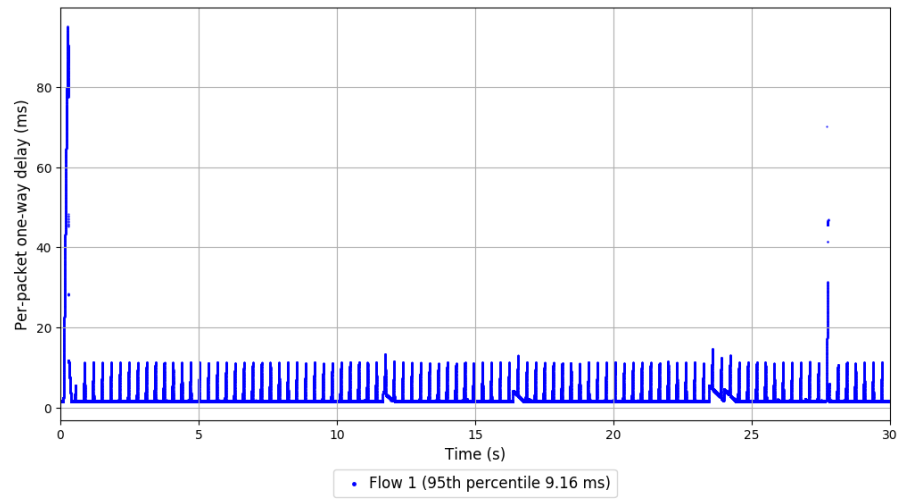
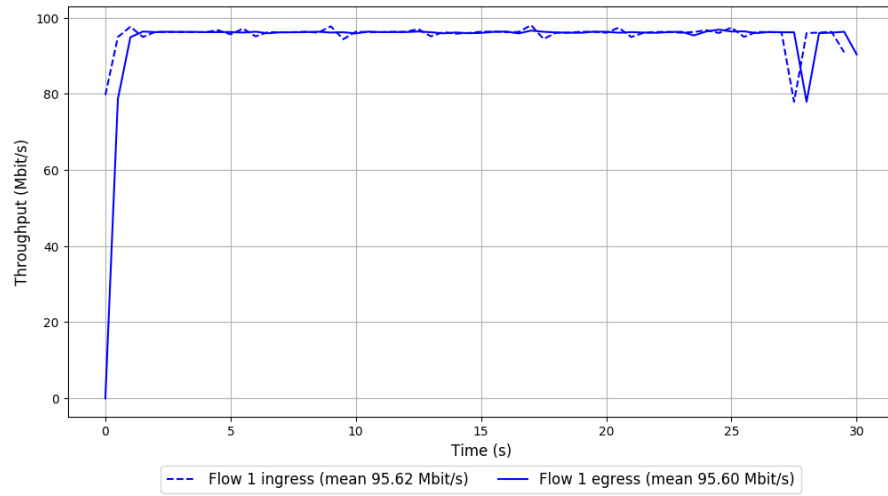
-- Flow 1:

Average throughput: 95.60 Mbit/s

95th percentile per-packet one-way delay: 9.165 ms

Loss rate: 0.03%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

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

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

Local clock offset: -5.373 ms

Remote clock offset: 0.641 ms

Below is generated by plot.py at 2019-12-11 13:07:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.90 Mbit/s

95th percentile per-packet one-way delay: 9.951 ms

Loss rate: 0.03%

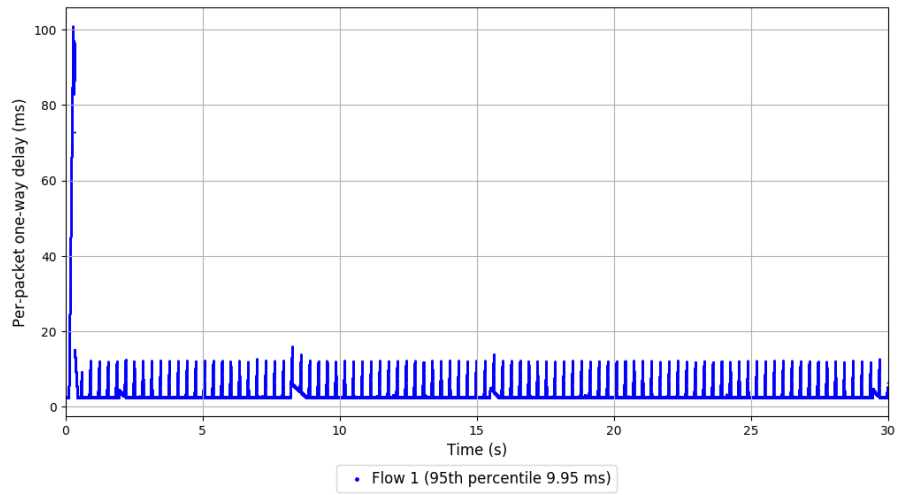
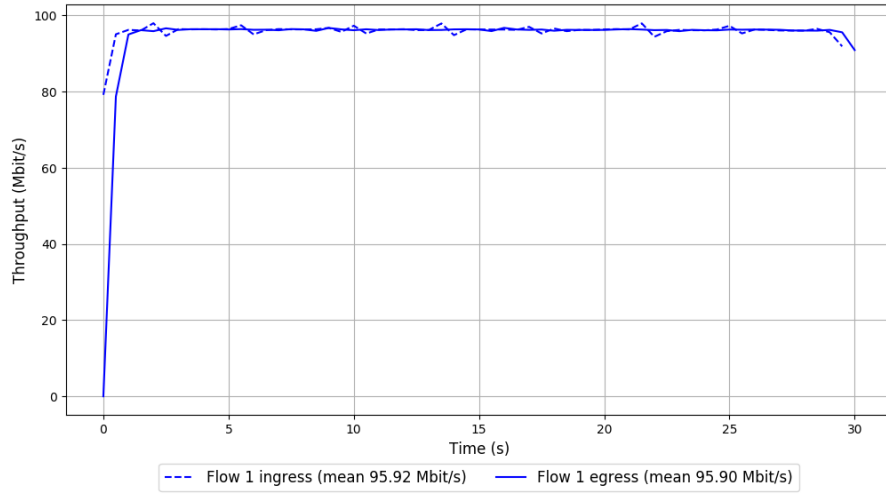
-- Flow 1:

Average throughput: 95.90 Mbit/s

95th percentile per-packet one-way delay: 9.951 ms

Loss rate: 0.03%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-12-11 12:50:45

End at: 2019-12-11 12:51:15

Local clock offset: -3.025 ms

Remote clock offset: 0.687 ms

Below is generated by plot.py at 2019-12-11 13:07:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.90 Mbit/s

95th percentile per-packet one-way delay: 9.722 ms

Loss rate: 0.03%

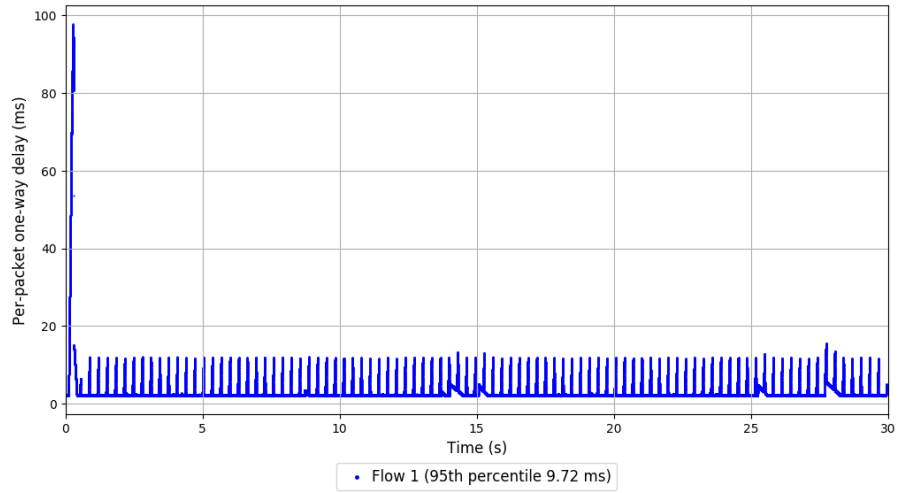
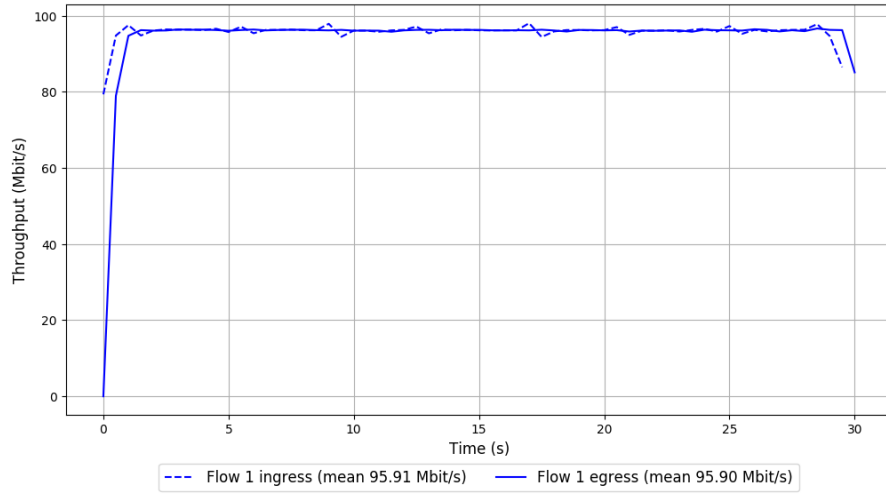
-- Flow 1:

Average throughput: 95.90 Mbit/s

95th percentile per-packet one-way delay: 9.722 ms

Loss rate: 0.03%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-12-11 10:48:03
End at: 2019-12-11 10:48:33
Local clock offset: -5.434 ms
Remote clock offset: -0.186 ms

Below is generated by plot.py at 2019-12-11 13:07:43

Datalink statistics

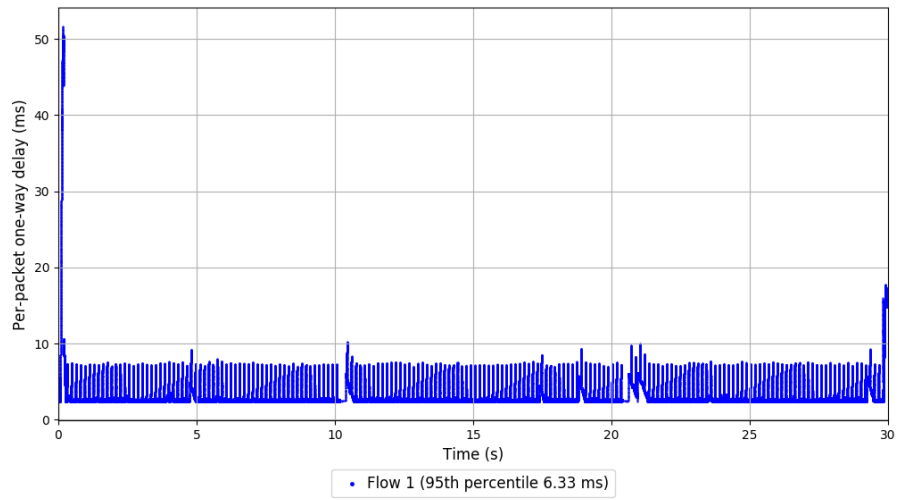
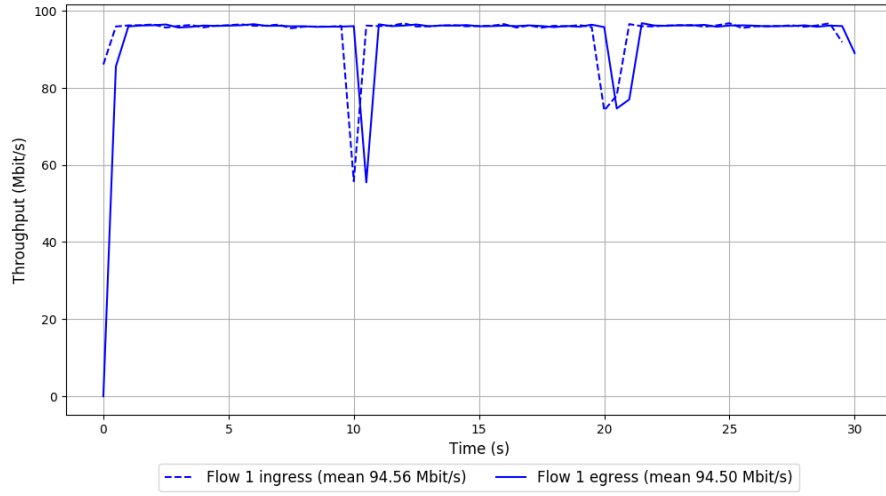
-- Total of 1 flow:

Average throughput: 94.50 Mbit/s
95th percentile per-packet one-way delay: 6.329 ms
Loss rate: 0.07%

-- Flow 1:

Average throughput: 94.50 Mbit/s
95th percentile per-packet one-way delay: 6.329 ms
Loss rate: 0.07%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-12-11 11:15:03

End at: 2019-12-11 11:15:33

Local clock offset: -6.66 ms

Remote clock offset: 0.156 ms

Below is generated by plot.py at 2019-12-11 13:07:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.37 Mbit/s

95th percentile per-packet one-way delay: 5.586 ms

Loss rate: 0.00%

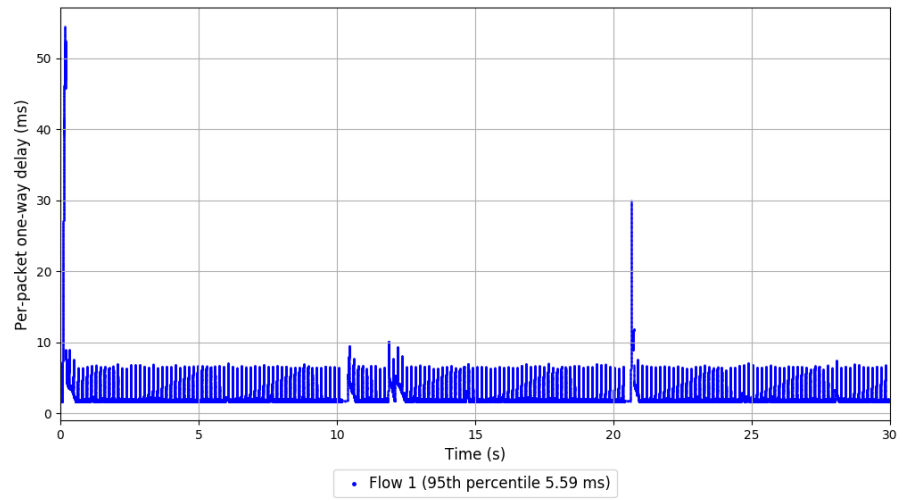
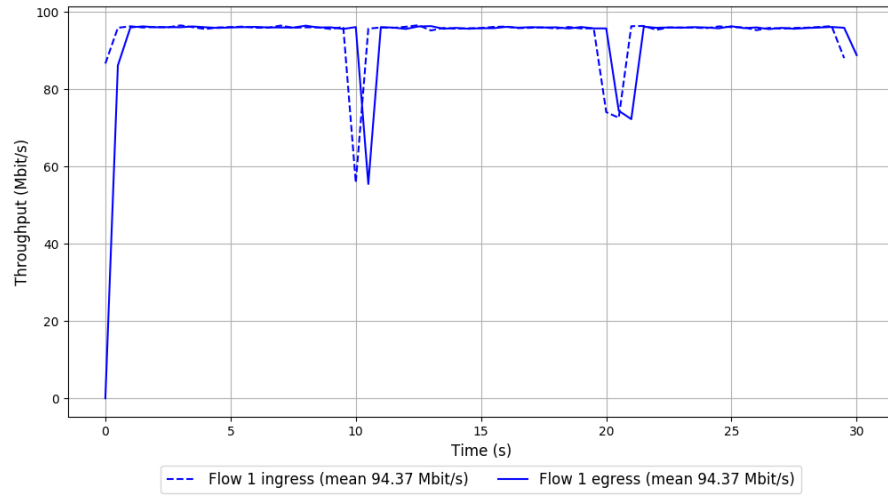
-- Flow 1:

Average throughput: 94.37 Mbit/s

95th percentile per-packet one-way delay: 5.586 ms

Loss rate: 0.00%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-12-11 11:42:08

End at: 2019-12-11 11:42:38

Local clock offset: -6.265 ms

Remote clock offset: 0.367 ms

Below is generated by plot.py at 2019-12-11 13:07:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.44 Mbit/s

95th percentile per-packet one-way delay: 6.330 ms

Loss rate: 0.03%

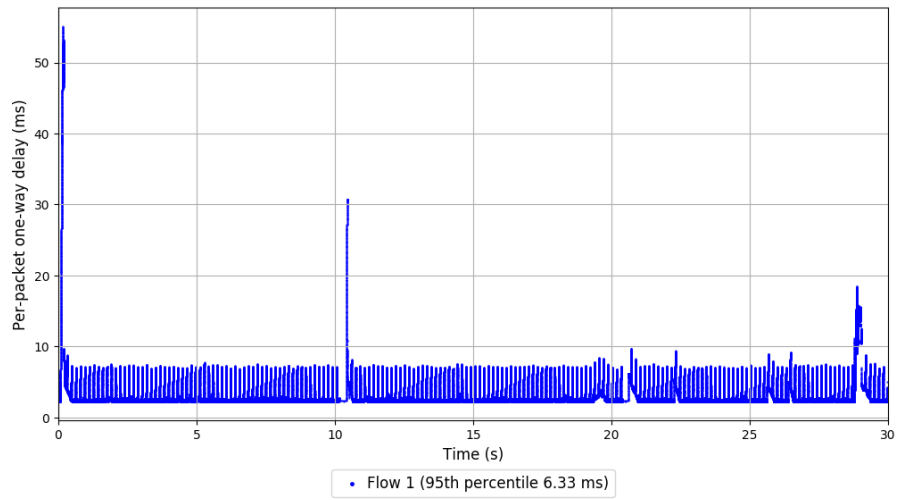
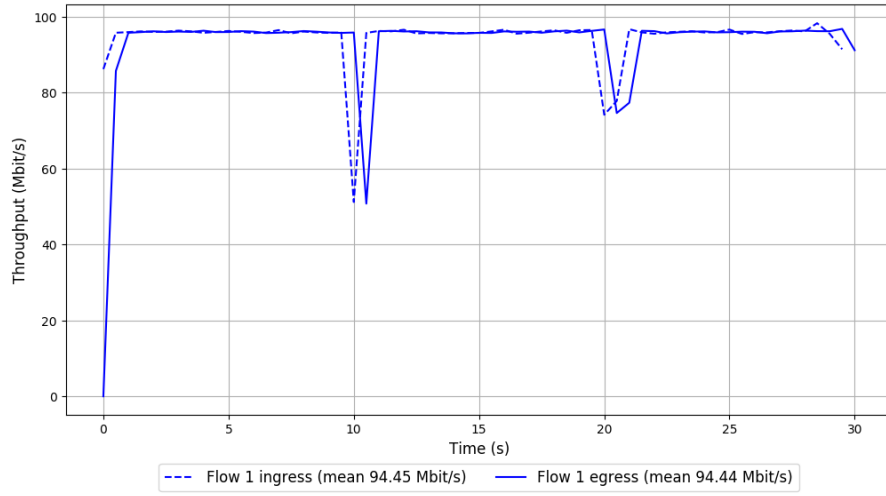
-- Flow 1:

Average throughput: 94.44 Mbit/s

95th percentile per-packet one-way delay: 6.330 ms

Loss rate: 0.03%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-12-11 12:09:07

End at: 2019-12-11 12:09:37

Local clock offset: -6.055 ms

Remote clock offset: 0.576 ms

Below is generated by plot.py at 2019-12-11 13:08:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.44 Mbit/s

95th percentile per-packet one-way delay: 5.652 ms

Loss rate: 0.02%

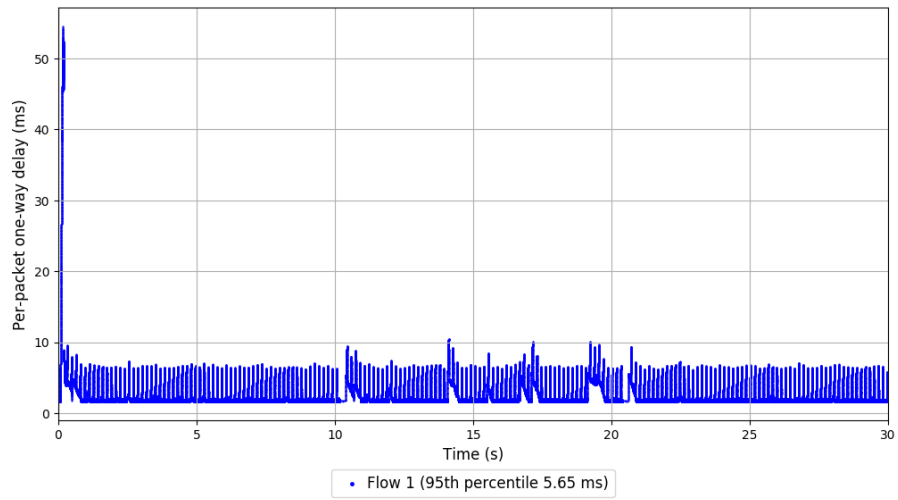
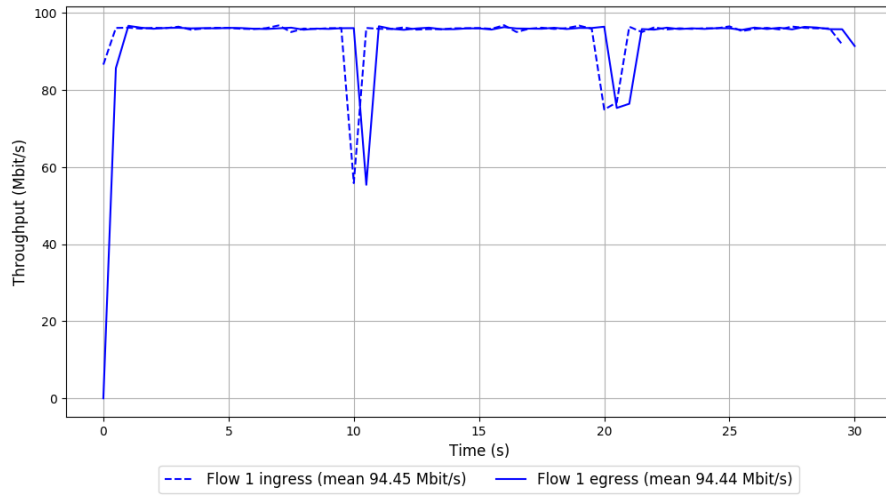
-- Flow 1:

Average throughput: 94.44 Mbit/s

95th percentile per-packet one-way delay: 5.652 ms

Loss rate: 0.02%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-12-11 12:36:04

End at: 2019-12-11 12:36:34

Local clock offset: -5.341 ms

Remote clock offset: 0.713 ms

Below is generated by plot.py at 2019-12-11 13:08:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.47 Mbit/s

95th percentile per-packet one-way delay: 6.644 ms

Loss rate: 0.03%

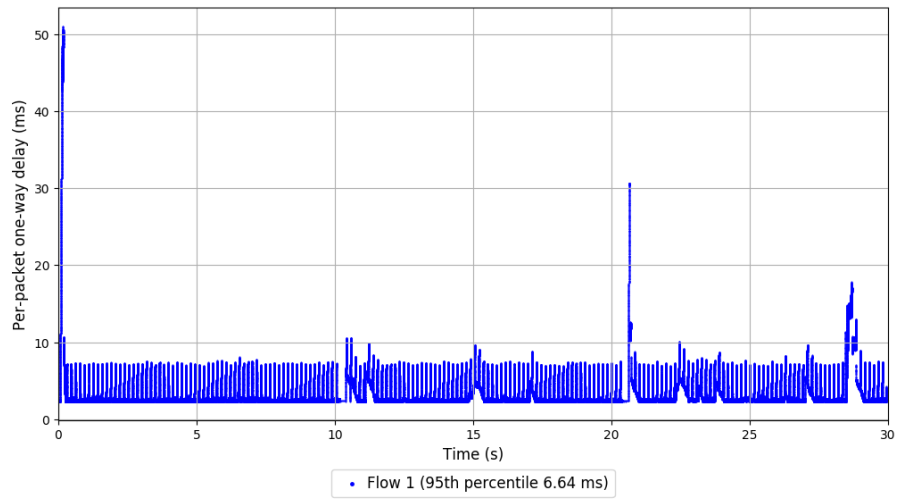
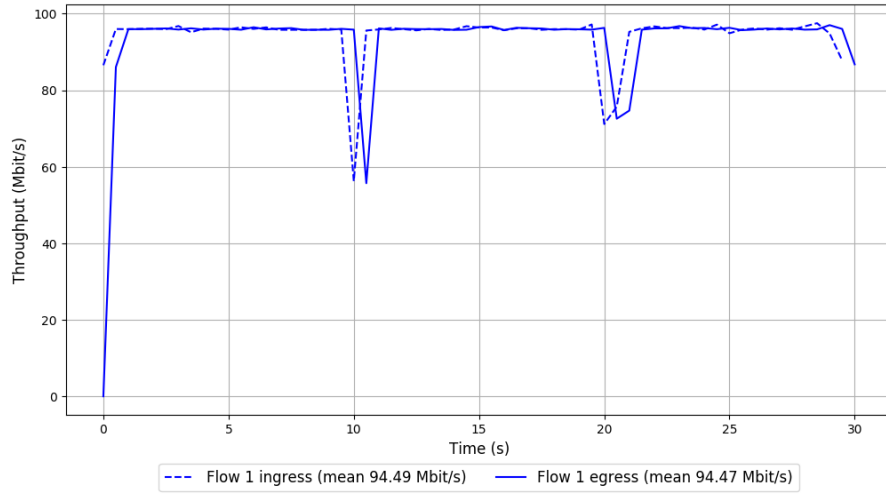
-- Flow 1:

Average throughput: 94.47 Mbit/s

95th percentile per-packet one-way delay: 6.644 ms

Loss rate: 0.03%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-12-11 10:55:58
End at: 2019-12-11 10:56:28
Local clock offset: -5.352 ms
Remote clock offset: -0.091 ms

Below is generated by plot.py at 2019-12-11 13:08:20

Datalink statistics

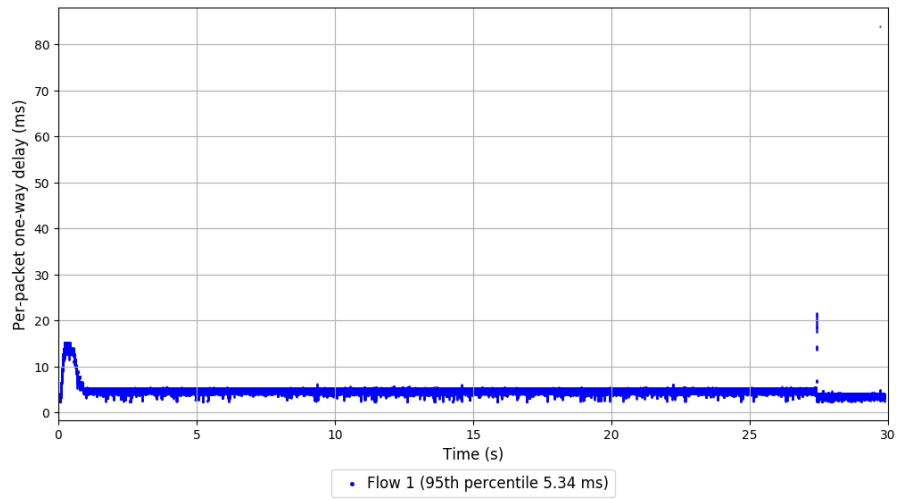
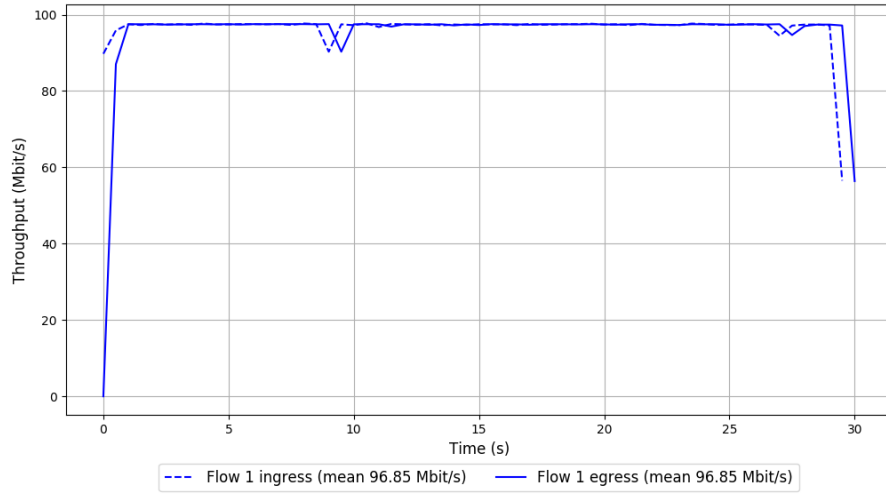
-- Total of 1 flow:

Average throughput: 96.85 Mbit/s
95th percentile per-packet one-way delay: 5.342 ms
Loss rate: 0.02%

-- Flow 1:

Average throughput: 96.85 Mbit/s
95th percentile per-packet one-way delay: 5.342 ms
Loss rate: 0.02%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-12-11 11:23:00

End at: 2019-12-11 11:23:30

Local clock offset: -6.335 ms

Remote clock offset: 0.266 ms

Below is generated by plot.py at 2019-12-11 13:08:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.20 Mbit/s

95th percentile per-packet one-way delay: 5.058 ms

Loss rate: 0.02%

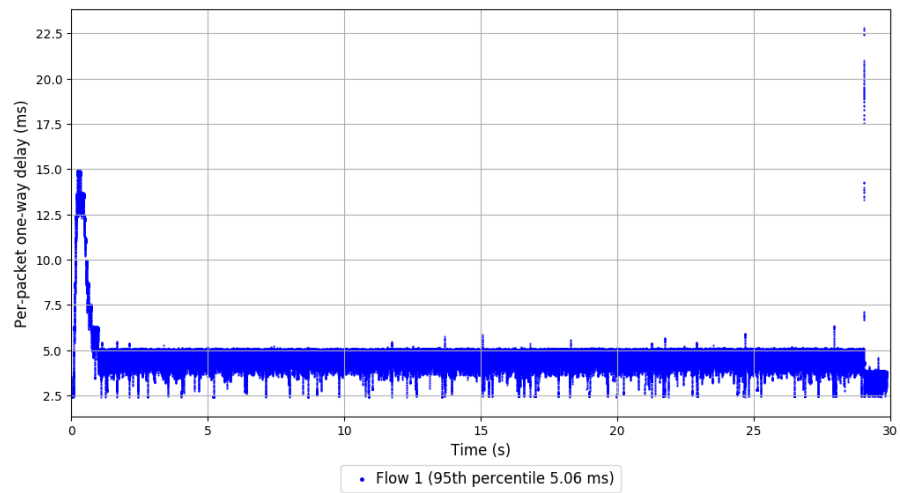
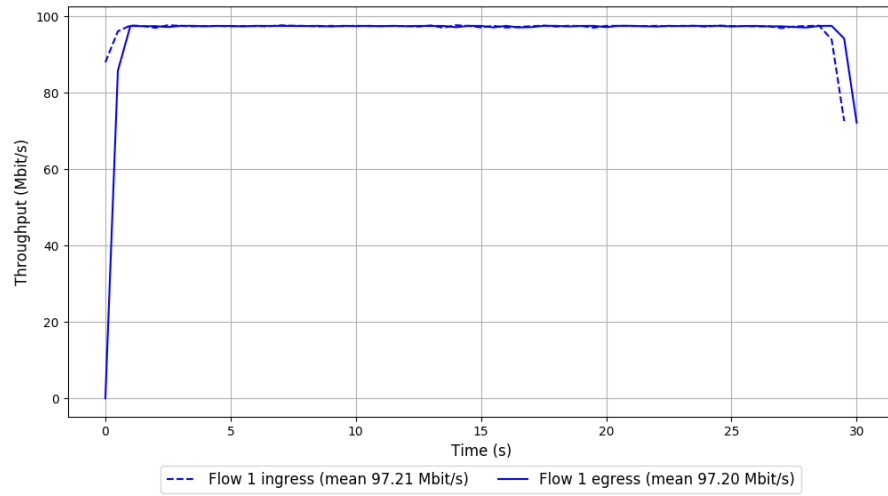
-- Flow 1:

Average throughput: 97.20 Mbit/s

95th percentile per-packet one-way delay: 5.058 ms

Loss rate: 0.02%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-12-11 11:50:01

End at: 2019-12-11 11:50:31

Local clock offset: -5.776 ms

Remote clock offset: 0.495 ms

Below is generated by plot.py at 2019-12-11 13:08:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.25 Mbit/s

95th percentile per-packet one-way delay: 4.959 ms

Loss rate: 0.02%

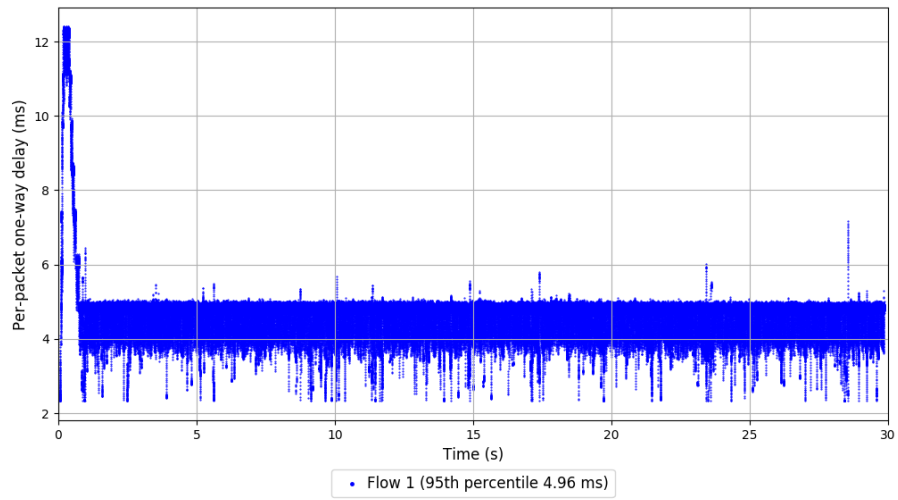
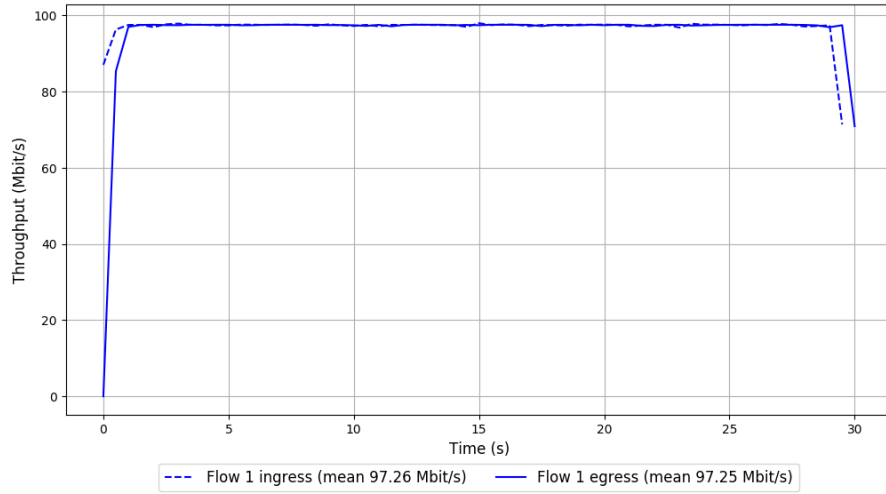
-- Flow 1:

Average throughput: 97.25 Mbit/s

95th percentile per-packet one-way delay: 4.959 ms

Loss rate: 0.02%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-12-11 12:16:59

End at: 2019-12-11 12:17:29

Local clock offset: -5.383 ms

Remote clock offset: 0.628 ms

Below is generated by plot.py at 2019-12-11 13:08:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.23 Mbit/s

95th percentile per-packet one-way delay: 5.333 ms

Loss rate: 0.02%

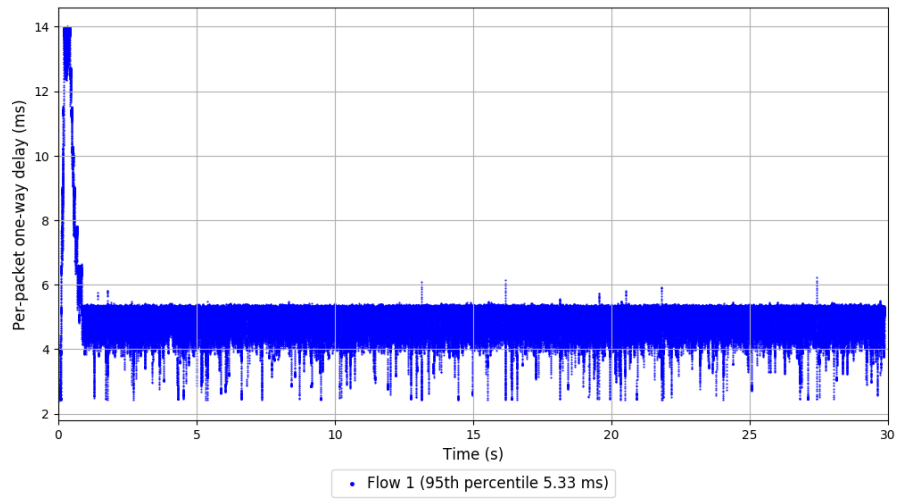
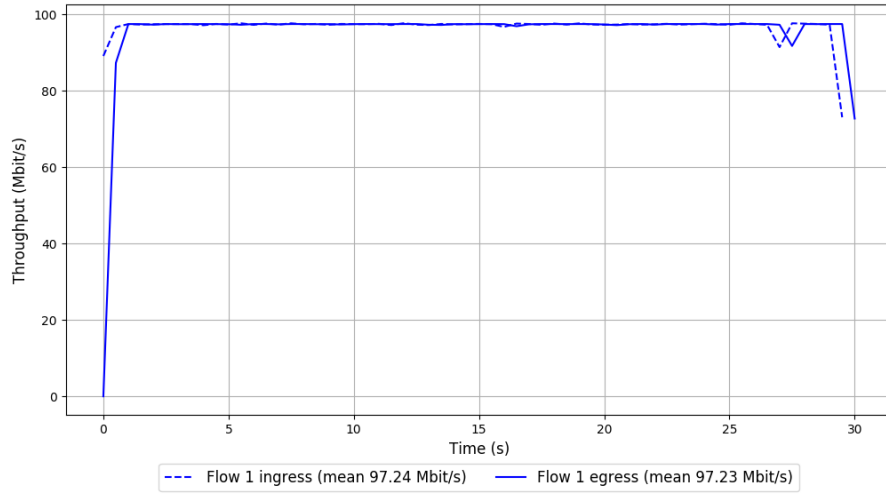
-- Flow 1:

Average throughput: 97.23 Mbit/s

95th percentile per-packet one-way delay: 5.333 ms

Loss rate: 0.02%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-12-11 12:43:57

End at: 2019-12-11 12:44:27

Local clock offset: -3.932 ms

Remote clock offset: 0.762 ms

Below is generated by plot.py at 2019-12-11 13:08:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.30 Mbit/s

95th percentile per-packet one-way delay: 5.179 ms

Loss rate: 0.02%

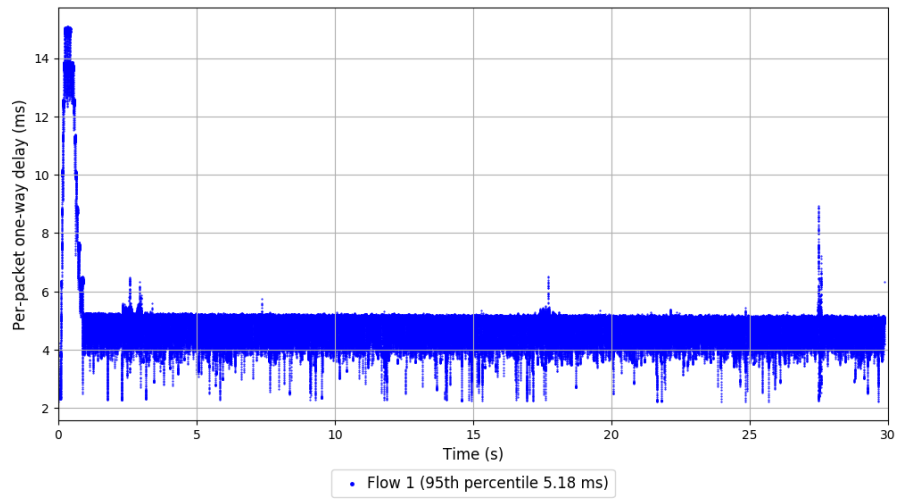
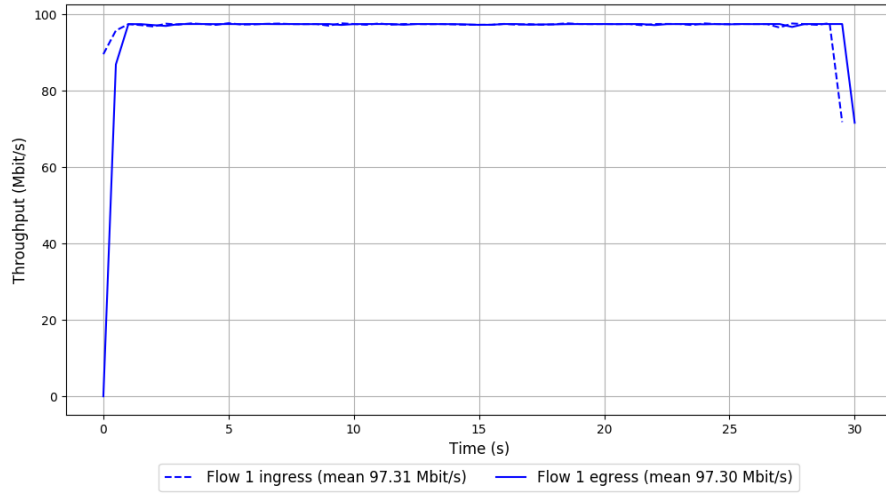
-- Flow 1:

Average throughput: 97.30 Mbit/s

95th percentile per-packet one-way delay: 5.179 ms

Loss rate: 0.02%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-12-11 11:08:19

End at: 2019-12-11 11:08:49

Local clock offset: -6.043 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2019-12-11 13:08:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.07 Mbit/s

95th percentile per-packet one-way delay: 3.781 ms

Loss rate: 0.02%

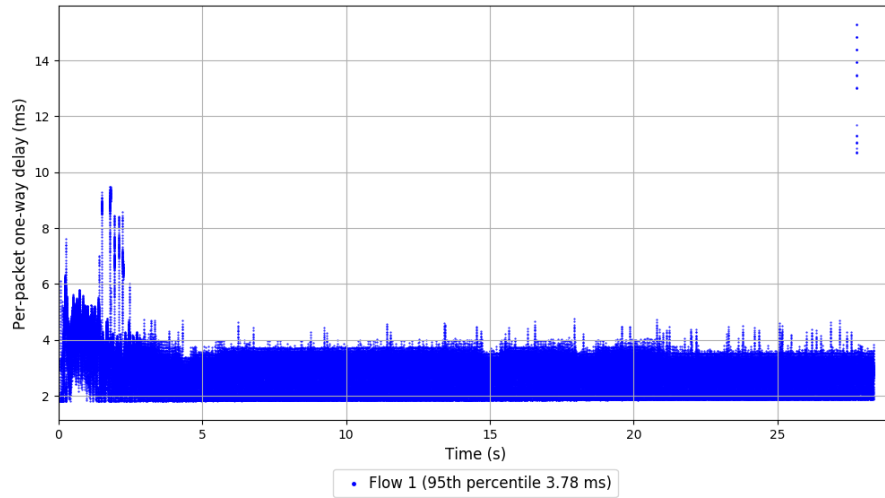
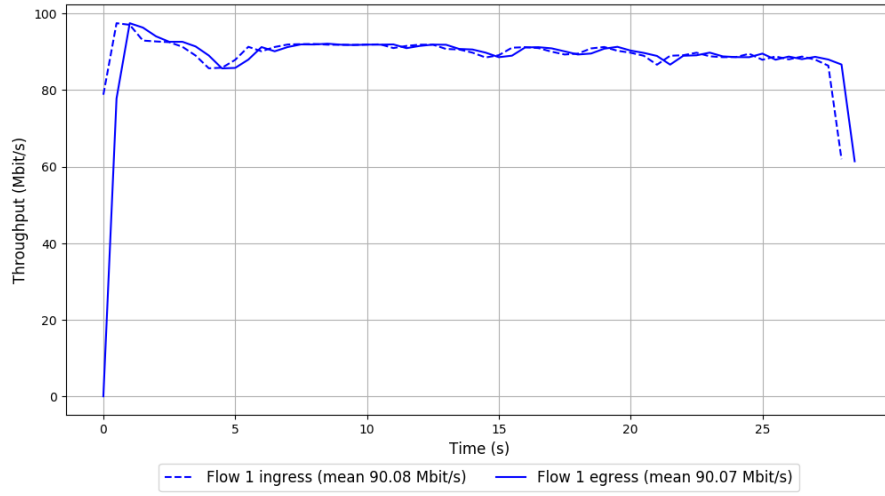
-- Flow 1:

Average throughput: 90.07 Mbit/s

95th percentile per-packet one-way delay: 3.781 ms

Loss rate: 0.02%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-12-11 11:35:21

End at: 2019-12-11 11:35:51

Local clock offset: -7.356 ms

Remote clock offset: 0.295 ms

Below is generated by plot.py at 2019-12-11 13:09:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.96 Mbit/s

95th percentile per-packet one-way delay: 3.116 ms

Loss rate: 0.02%

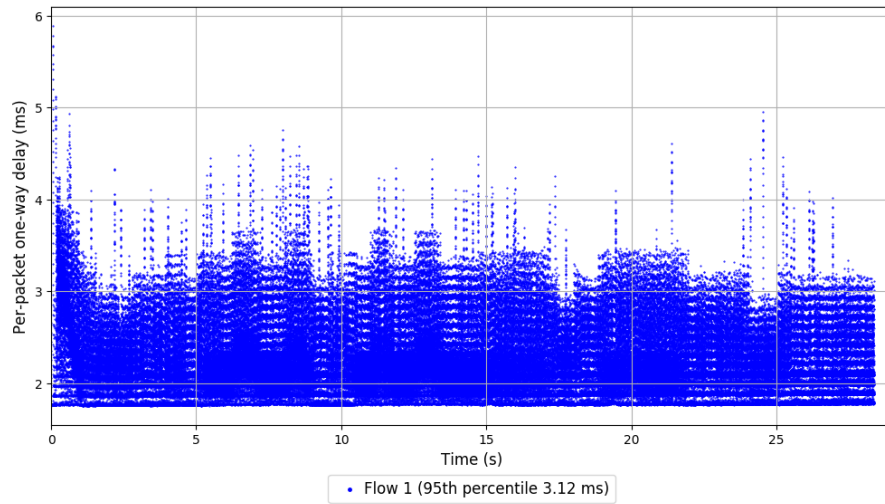
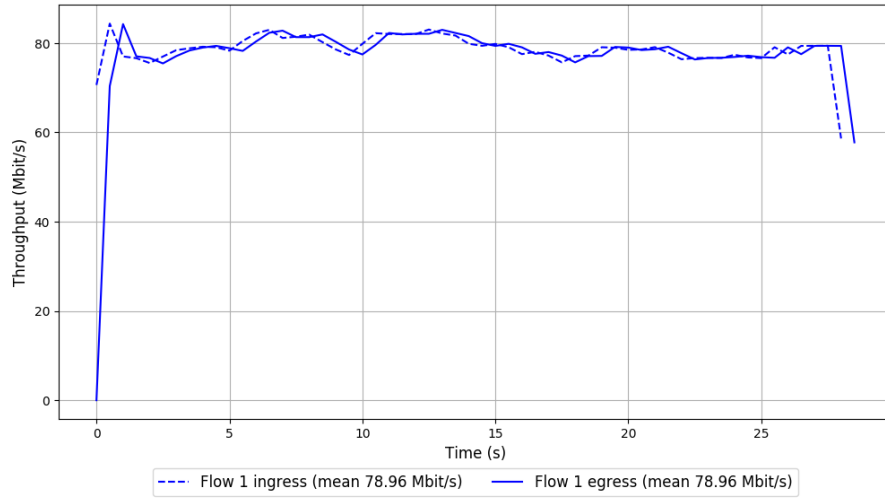
-- Flow 1:

Average throughput: 78.96 Mbit/s

95th percentile per-packet one-way delay: 3.116 ms

Loss rate: 0.02%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-12-11 12:02:21

End at: 2019-12-11 12:02:51

Local clock offset: -5.413 ms

Remote clock offset: 0.51 ms

Below is generated by plot.py at 2019-12-11 13:09:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.54 Mbit/s

95th percentile per-packet one-way delay: 3.823 ms

Loss rate: 0.01%

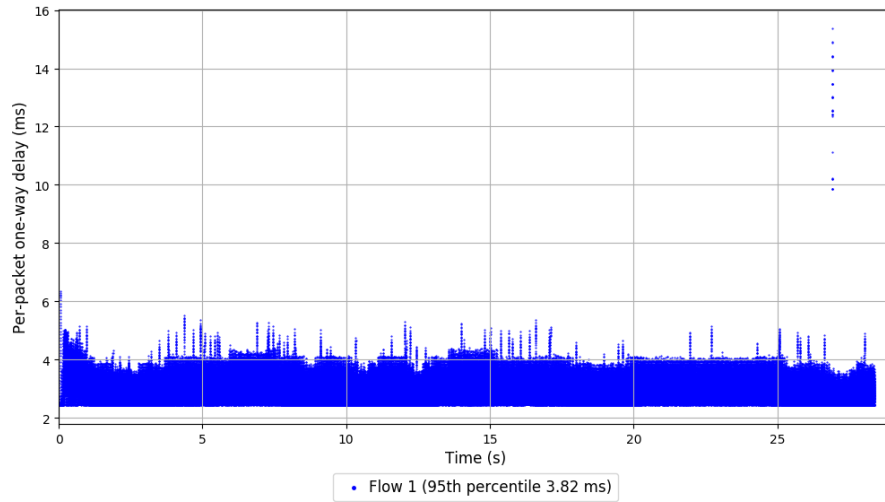
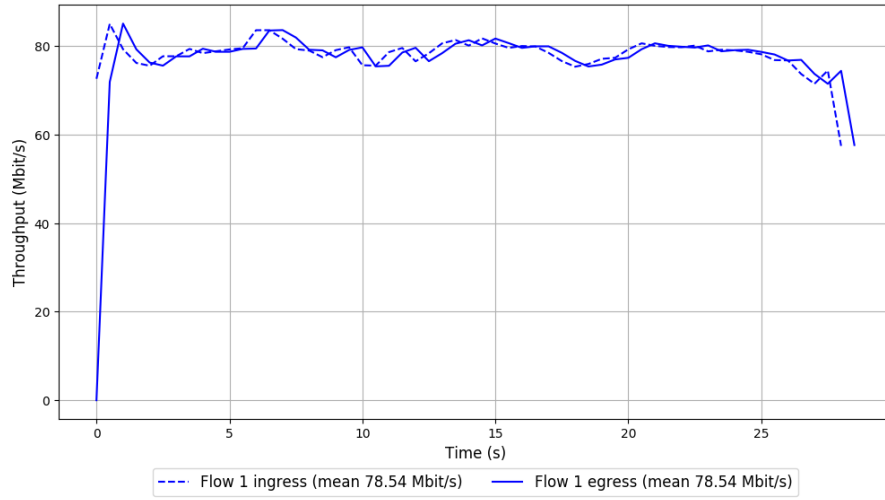
-- Flow 1:

Average throughput: 78.54 Mbit/s

95th percentile per-packet one-way delay: 3.823 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-12-11 12:29:17

End at: 2019-12-11 12:29:47

Local clock offset: -6.052 ms

Remote clock offset: 0.668 ms

Below is generated by plot.py at 2019-12-11 13:09:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.96 Mbit/s

95th percentile per-packet one-way delay: 3.759 ms

Loss rate: 0.02%

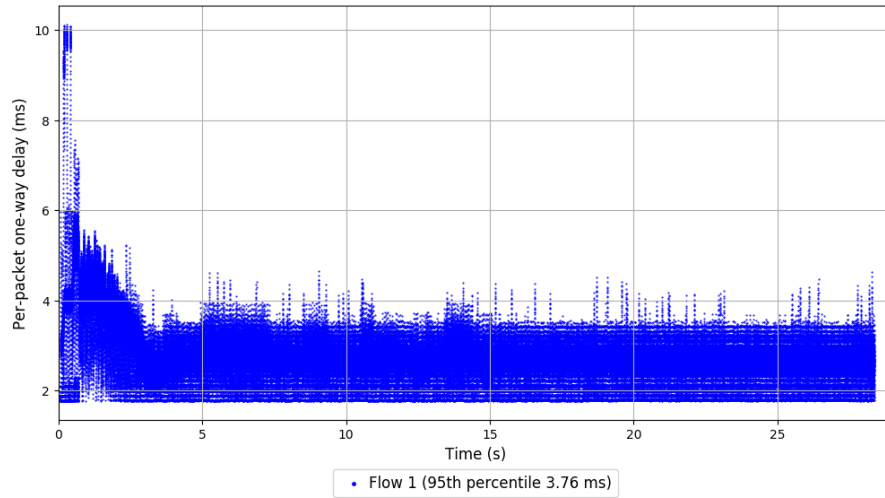
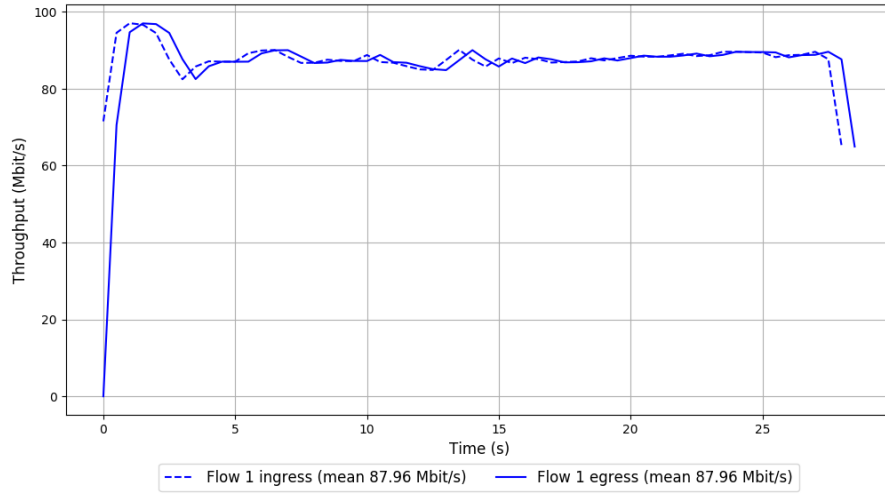
-- Flow 1:

Average throughput: 87.96 Mbit/s

95th percentile per-packet one-way delay: 3.759 ms

Loss rate: 0.02%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-12-11 12:56:18

End at: 2019-12-11 12:56:48

Local clock offset: -3.172 ms

Remote clock offset: 0.597 ms

Below is generated by plot.py at 2019-12-11 13:09:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.80 Mbit/s

95th percentile per-packet one-way delay: 3.583 ms

Loss rate: 0.02%

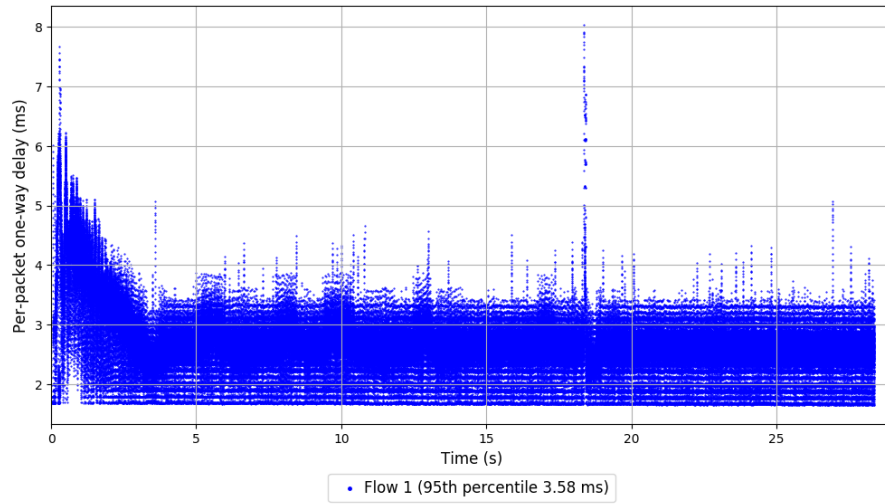
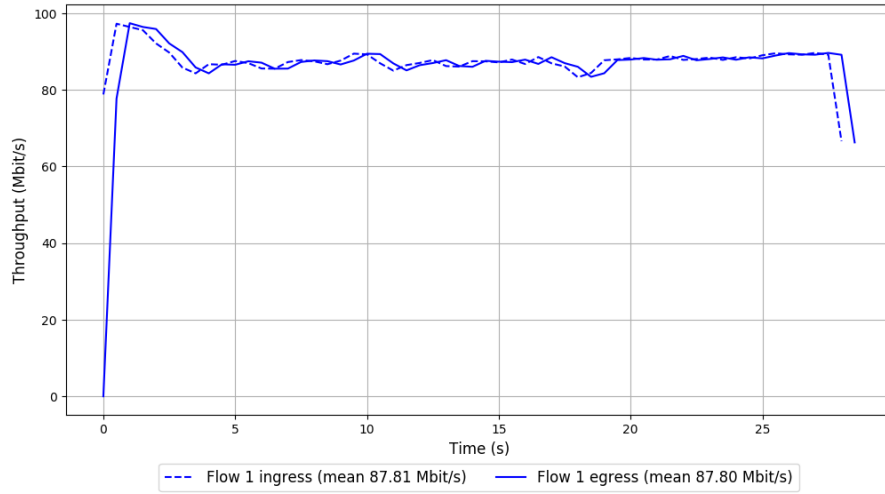
-- Flow 1:

Average throughput: 87.80 Mbit/s

95th percentile per-packet one-way delay: 3.583 ms

Loss rate: 0.02%

Run 5: Report of Indigo-MusesC3 — Data Link

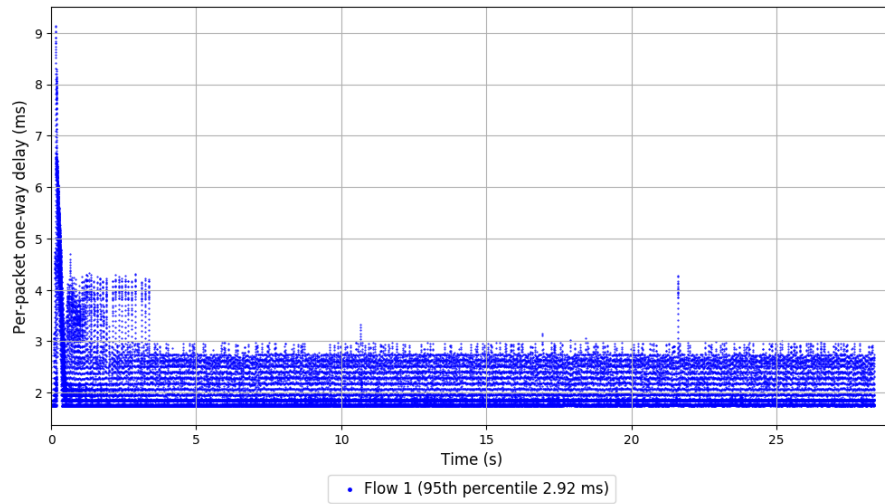
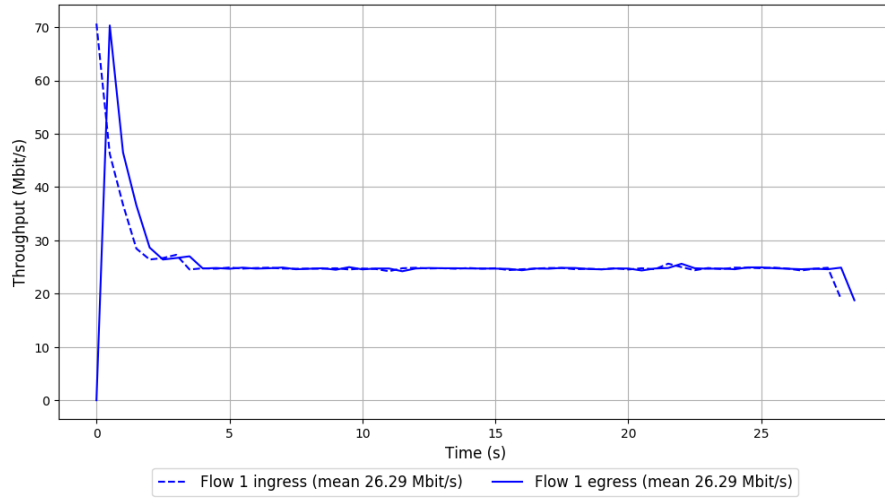


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-12-11 11:04:59
End at: 2019-12-11 11:05:29
Local clock offset: -6.05 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2019-12-11 13:09:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 26.29 Mbit/s
95th percentile per-packet one-way delay: 2.925 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 26.29 Mbit/s
95th percentile per-packet one-way delay: 2.925 ms
Loss rate: 0.02%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-12-11 11:32:00

End at: 2019-12-11 11:32:30

Local clock offset: -7.288 ms

Remote clock offset: 0.274 ms

Below is generated by plot.py at 2019-12-11 13:09:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.99 Mbit/s

95th percentile per-packet one-way delay: 2.167 ms

Loss rate: 0.02%

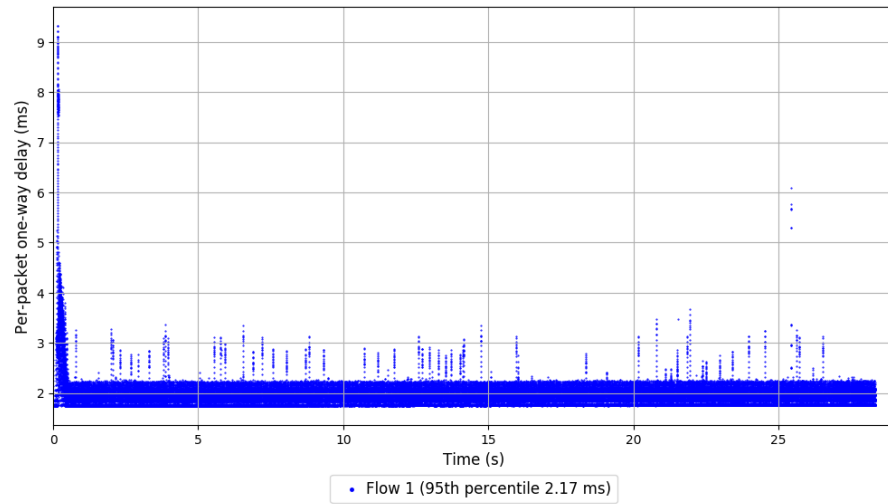
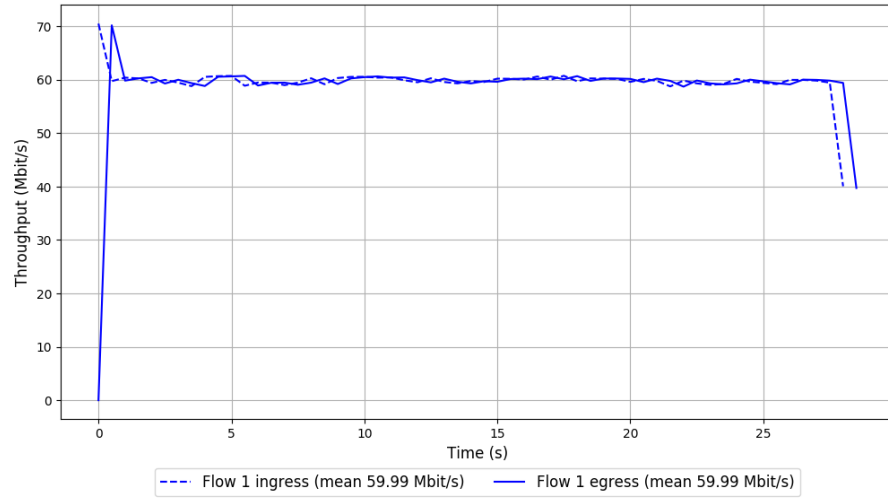
-- Flow 1:

Average throughput: 59.99 Mbit/s

95th percentile per-packet one-way delay: 2.167 ms

Loss rate: 0.02%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-12-11 11:59:01

End at: 2019-12-11 11:59:31

Local clock offset: -5.529 ms

Remote clock offset: 0.455 ms

Below is generated by plot.py at 2019-12-11 13:09:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.29 Mbit/s

95th percentile per-packet one-way delay: 3.860 ms

Loss rate: 0.01%

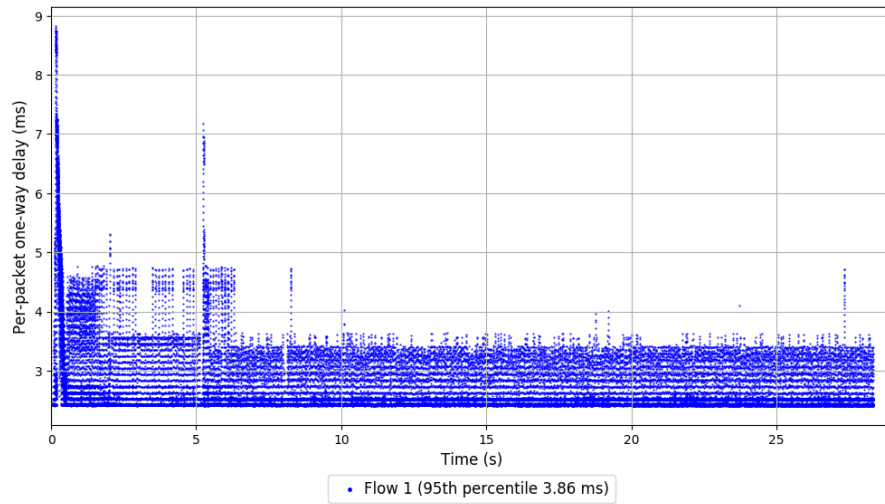
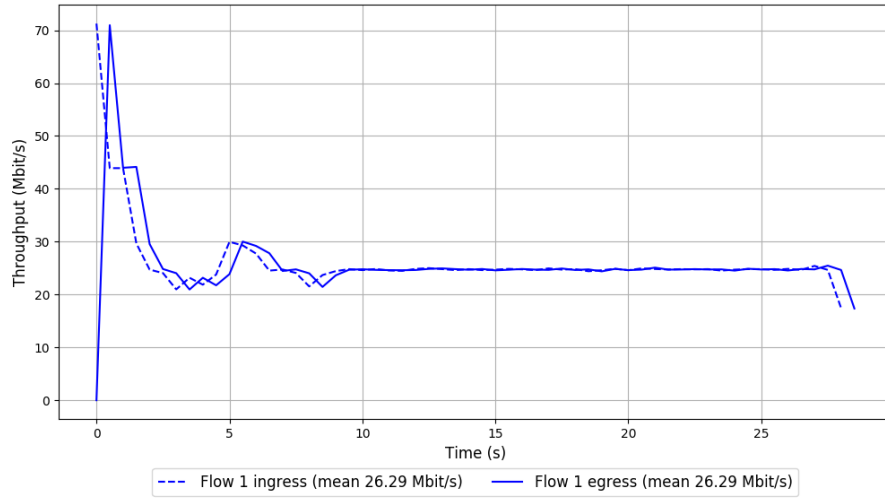
-- Flow 1:

Average throughput: 26.29 Mbit/s

95th percentile per-packet one-way delay: 3.860 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-12-11 12:25:58

End at: 2019-12-11 12:26:28

Local clock offset: -5.441 ms

Remote clock offset: 0.648 ms

Below is generated by plot.py at 2019-12-11 13:09:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.36 Mbit/s

95th percentile per-packet one-way delay: 3.693 ms

Loss rate: 0.01%

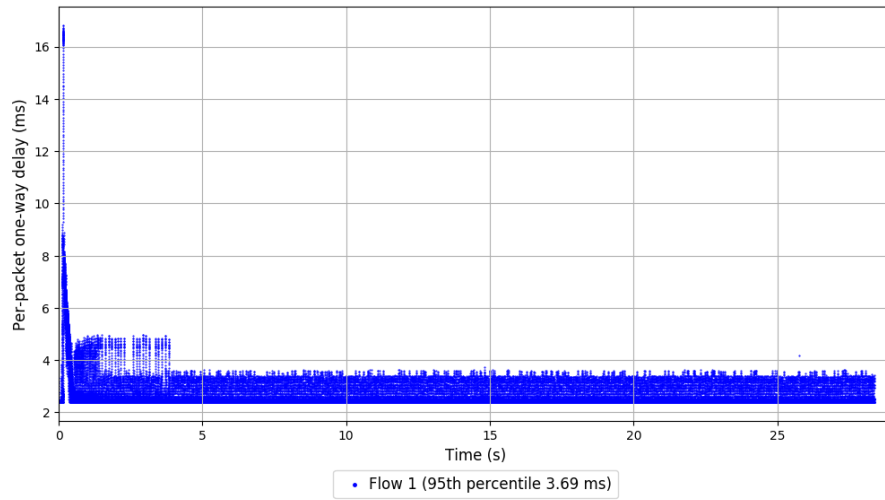
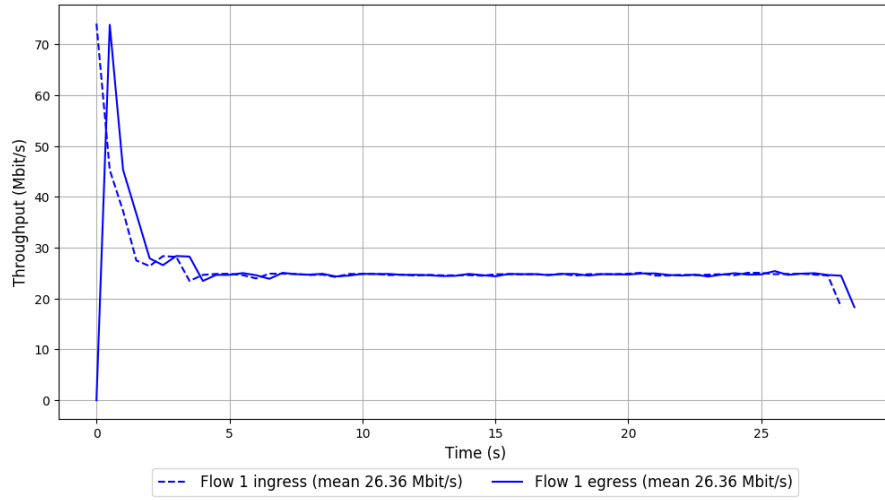
-- Flow 1:

Average throughput: 26.36 Mbit/s

95th percentile per-packet one-way delay: 3.693 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-12-11 12:52:57

End at: 2019-12-11 12:53:27

Local clock offset: -2.76 ms

Remote clock offset: 0.611 ms

Below is generated by plot.py at 2019-12-11 13:09:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.98 Mbit/s

95th percentile per-packet one-way delay: 4.211 ms

Loss rate: 0.01%

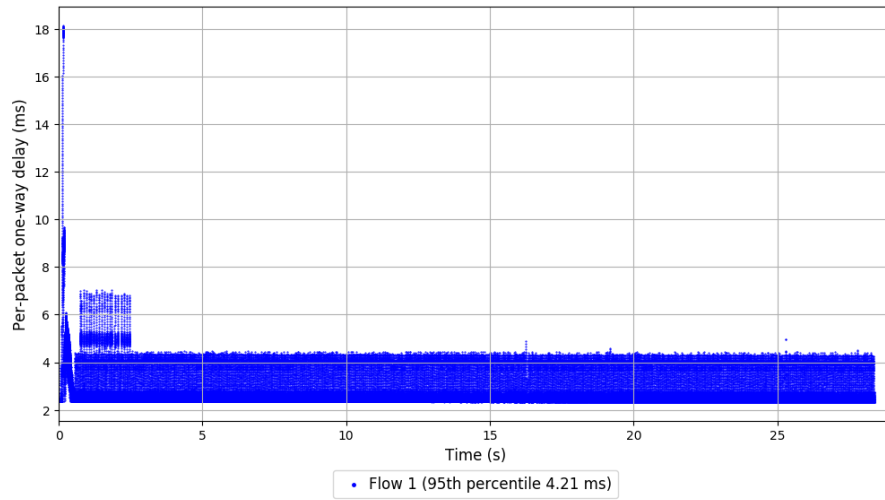
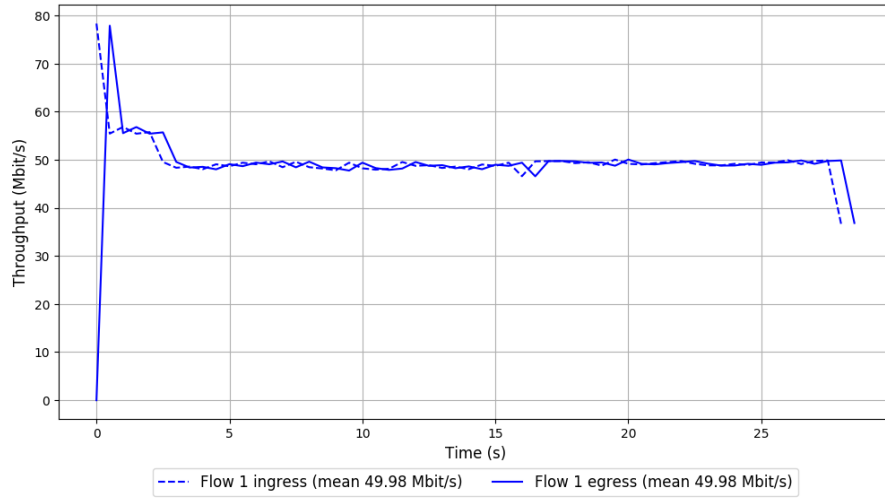
-- Flow 1:

Average throughput: 49.98 Mbit/s

95th percentile per-packet one-way delay: 4.211 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-12-11 11:06:04

End at: 2019-12-11 11:06:34

Local clock offset: -5.345 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2019-12-11 13:09:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.78 Mbit/s

95th percentile per-packet one-way delay: 5.999 ms

Loss rate: 0.00%

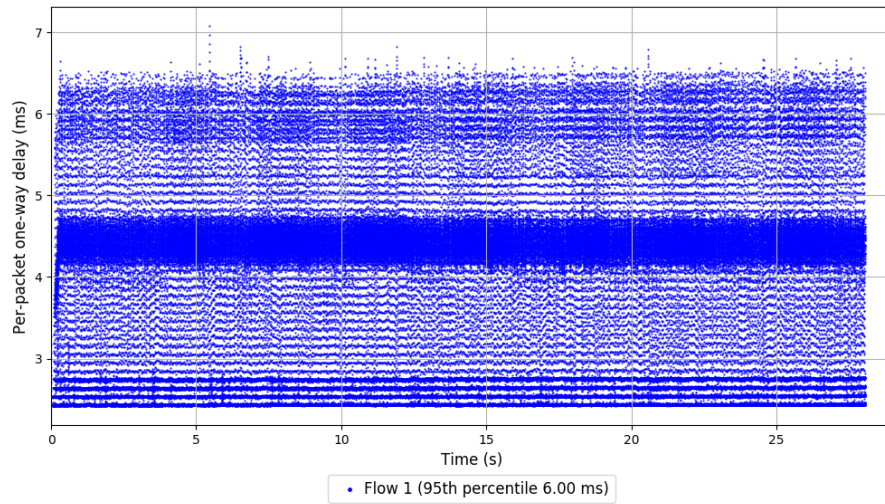
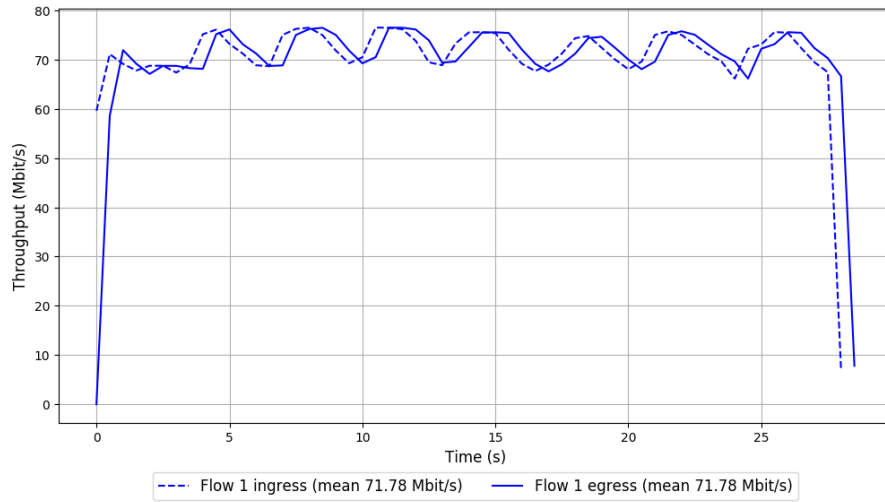
-- Flow 1:

Average throughput: 71.78 Mbit/s

95th percentile per-packet one-way delay: 5.999 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

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

End at: 2019-12-11 11:33:37

Local clock offset: -7.317 ms

Remote clock offset: 0.254 ms

Below is generated by plot.py at 2019-12-11 13:10:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.46 Mbit/s

95th percentile per-packet one-way delay: 5.049 ms

Loss rate: 0.02%

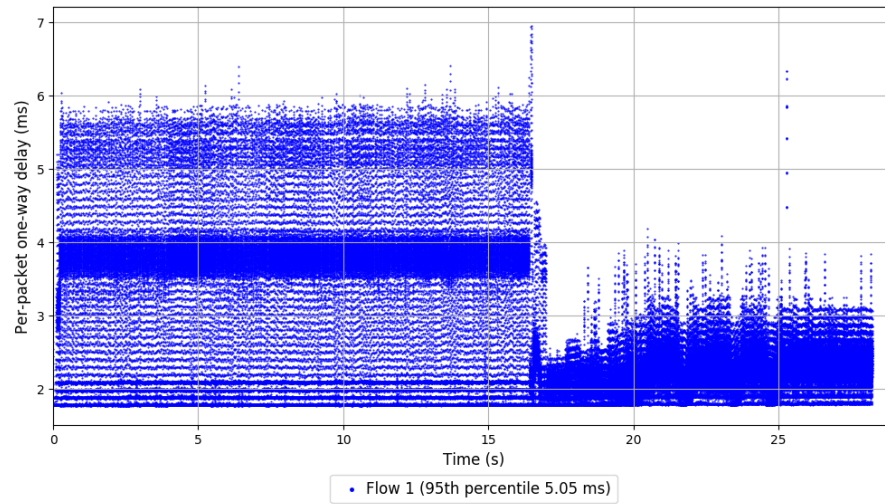
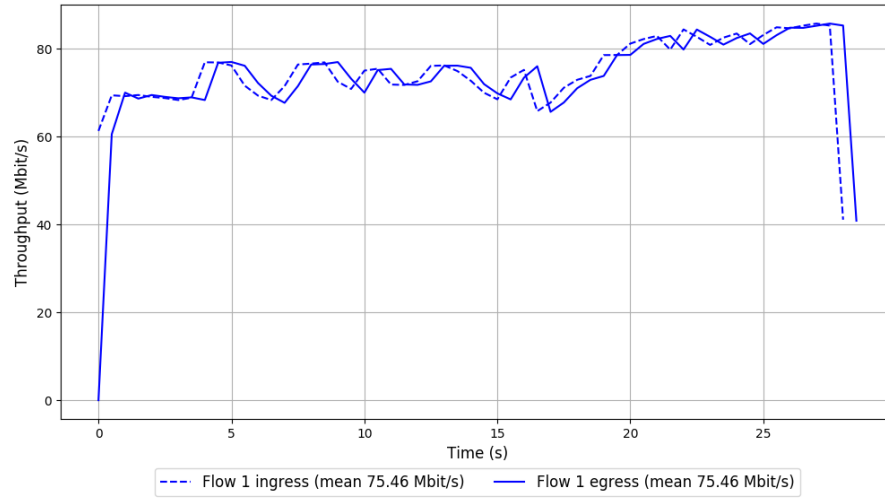
-- Flow 1:

Average throughput: 75.46 Mbit/s

95th percentile per-packet one-way delay: 5.049 ms

Loss rate: 0.02%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-12-11 12:00:06

End at: 2019-12-11 12:00:36

Local clock offset: -6.144 ms

Remote clock offset: 0.534 ms

Below is generated by plot.py at 2019-12-11 13:10:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.55 Mbit/s

95th percentile per-packet one-way delay: 4.932 ms

Loss rate: 0.02%

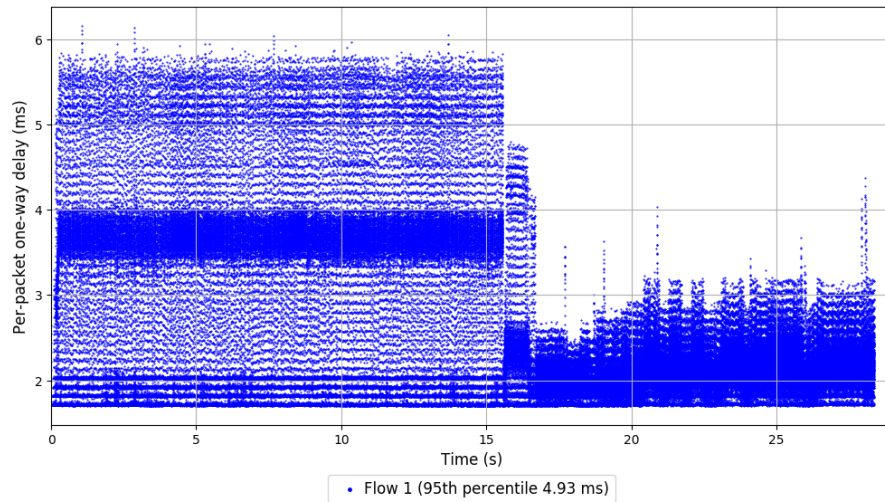
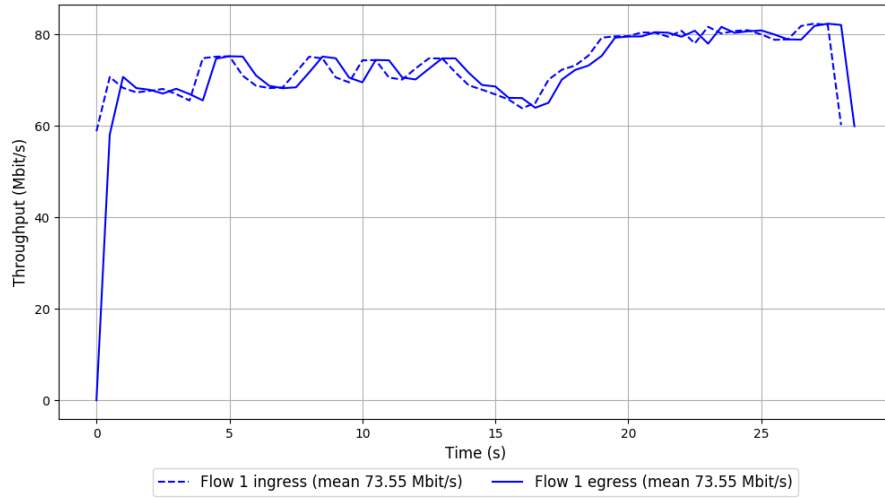
-- Flow 1:

Average throughput: 73.55 Mbit/s

95th percentile per-packet one-way delay: 4.932 ms

Loss rate: 0.02%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-12-11 12:27:03

End at: 2019-12-11 12:27:33

Local clock offset: -5.372 ms

Remote clock offset: 0.732 ms

Below is generated by plot.py at 2019-12-11 13:10:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.32 Mbit/s

95th percentile per-packet one-way delay: 2.924 ms

Loss rate: 0.00%

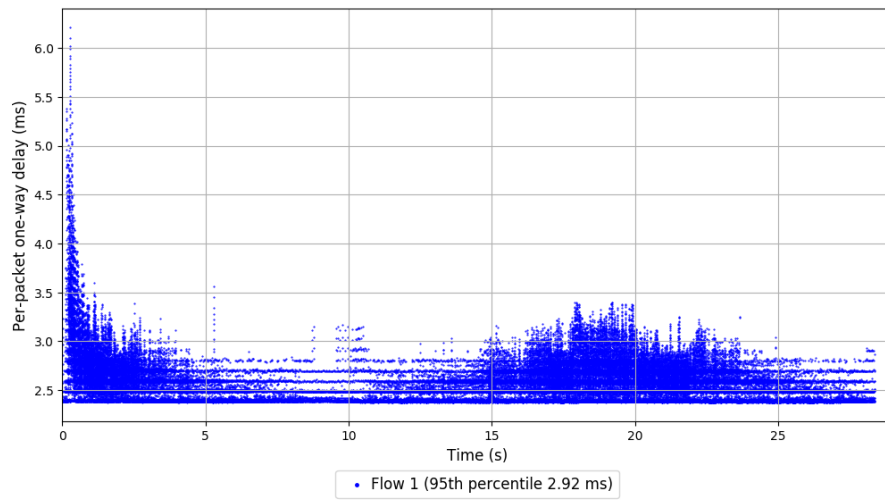
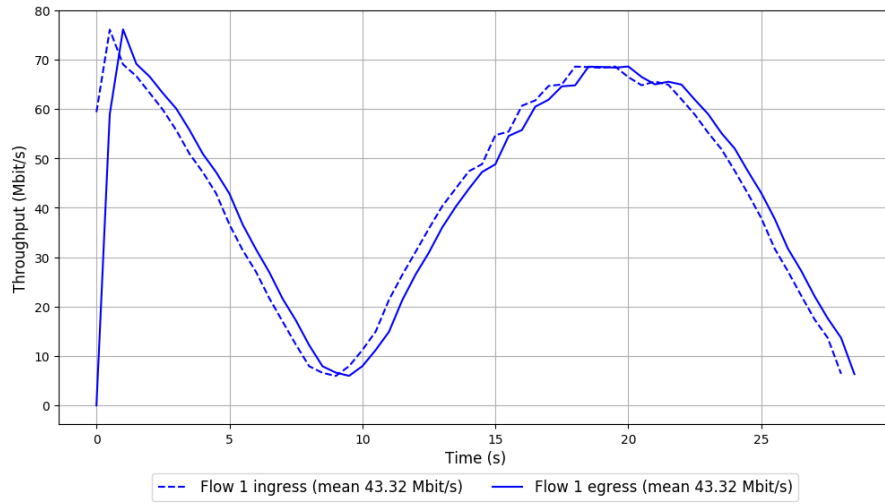
-- Flow 1:

Average throughput: 43.32 Mbit/s

95th percentile per-packet one-way delay: 2.924 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-12-11 12:54:03

End at: 2019-12-11 12:54:33

Local clock offset: -2.645 ms

Remote clock offset: 0.597 ms

Below is generated by plot.py at 2019-12-11 13:10:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.76 Mbit/s

95th percentile per-packet one-way delay: 3.824 ms

Loss rate: 0.02%

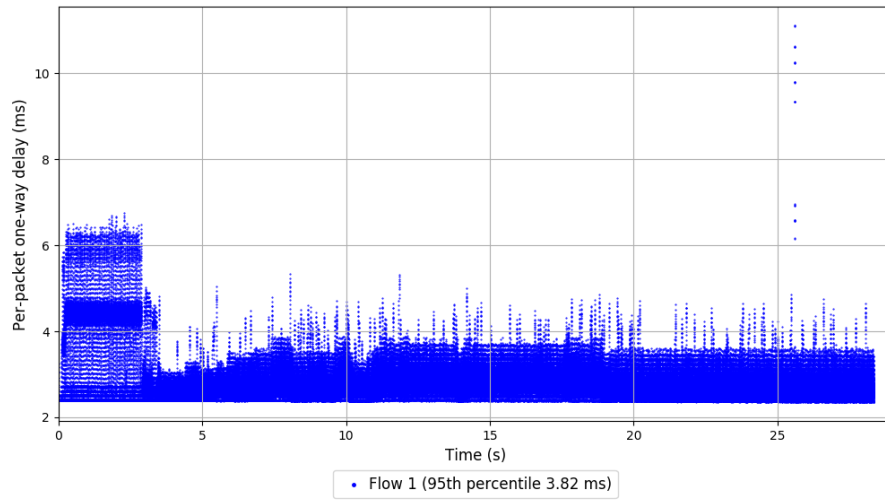
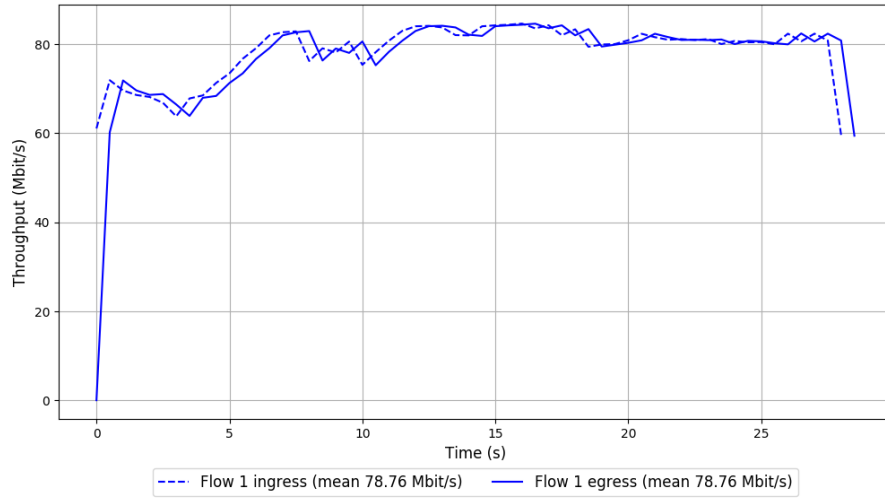
-- Flow 1:

Average throughput: 78.76 Mbit/s

95th percentile per-packet one-way delay: 3.824 ms

Loss rate: 0.02%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MuseST

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

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

Local clock offset: -5.362 ms

Remote clock offset: 0.086 ms

Below is generated by plot.py at 2019-12-11 13:10:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.46 Mbit/s

95th percentile per-packet one-way delay: 3.786 ms

Loss rate: 0.02%

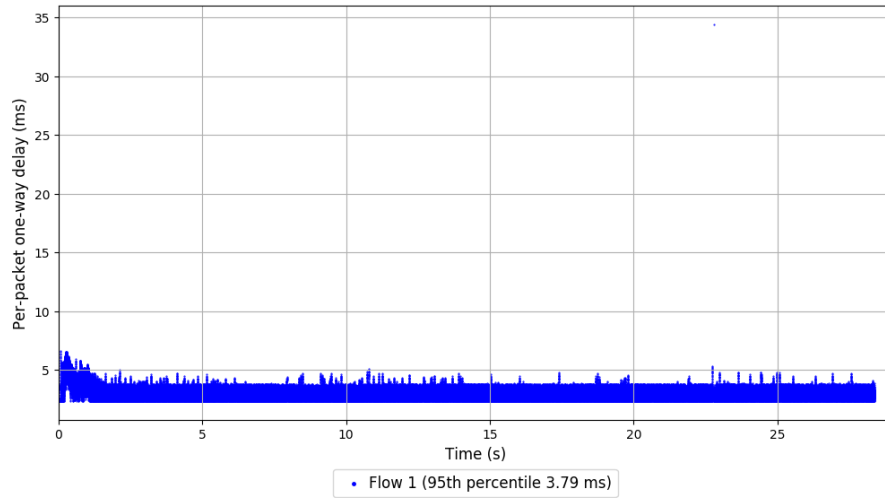
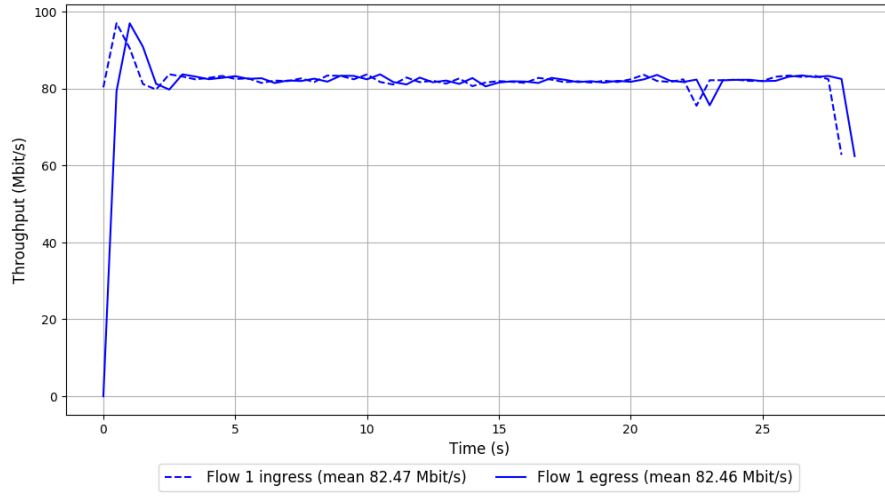
-- Flow 1:

Average throughput: 82.46 Mbit/s

95th percentile per-packet one-way delay: 3.786 ms

Loss rate: 0.02%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MuseST

Start at: 2019-12-11 11:34:14

End at: 2019-12-11 11:34:44

Local clock offset: -6.645 ms

Remote clock offset: 0.295 ms

Below is generated by plot.py at 2019-12-11 13:10:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.01 Mbit/s

95th percentile per-packet one-way delay: 3.730 ms

Loss rate: 0.01%

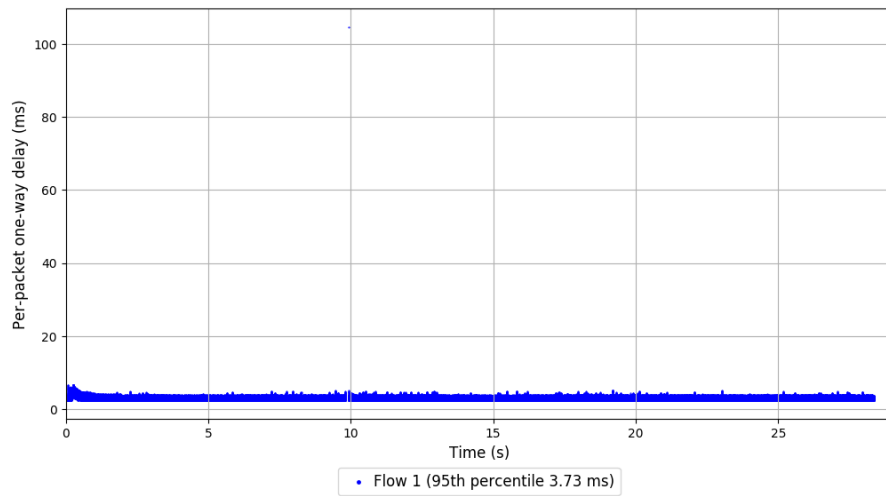
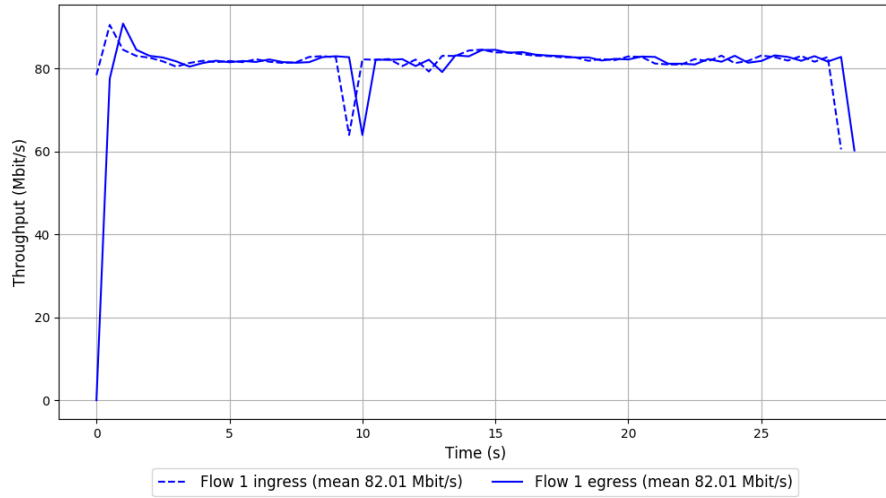
-- Flow 1:

Average throughput: 82.01 Mbit/s

95th percentile per-packet one-way delay: 3.730 ms

Loss rate: 0.01%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MuseST

Start at: 2019-12-11 12:01:13

End at: 2019-12-11 12:01:43

Local clock offset: -5.424 ms

Remote clock offset: 0.57 ms

Below is generated by plot.py at 2019-12-11 13:10:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.05 Mbit/s

95th percentile per-packet one-way delay: 3.758 ms

Loss rate: 0.02%

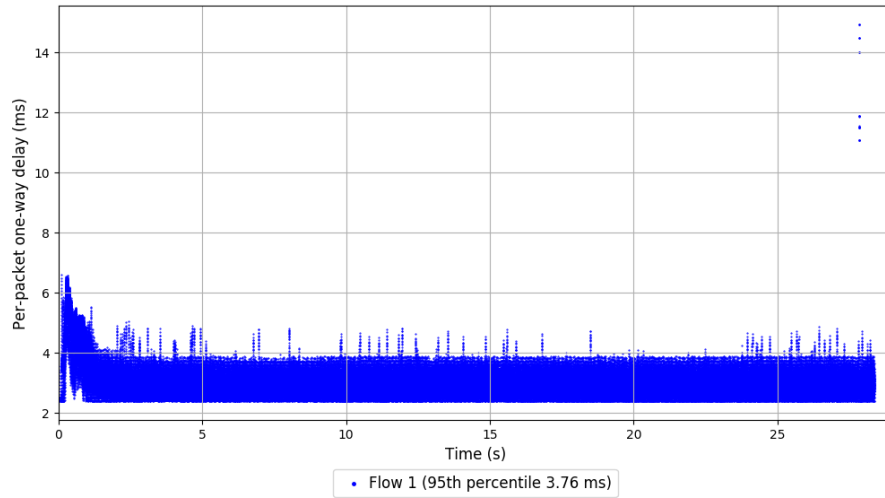
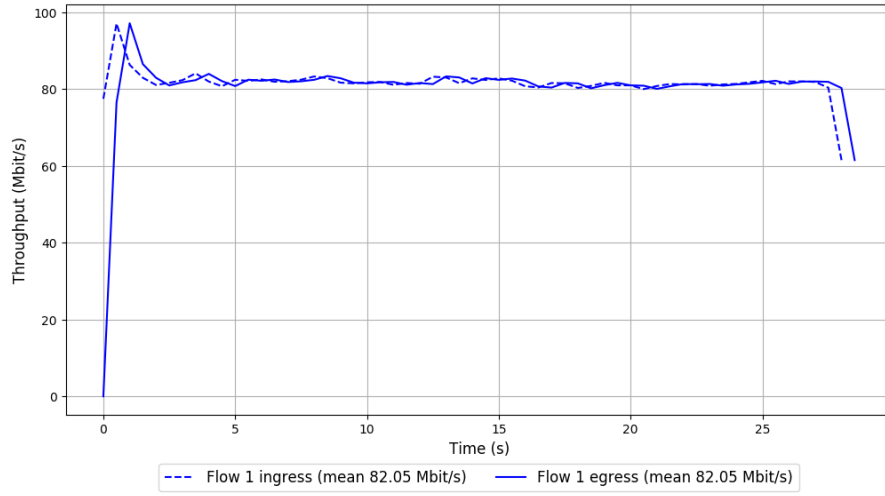
-- Flow 1:

Average throughput: 82.05 Mbit/s

95th percentile per-packet one-way delay: 3.758 ms

Loss rate: 0.02%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MuseST

Start at: 2019-12-11 12:28:09

End at: 2019-12-11 12:28:39

Local clock offset: -6.062 ms

Remote clock offset: 0.743 ms

Below is generated by plot.py at 2019-12-11 13:10:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.14 Mbit/s

95th percentile per-packet one-way delay: 2.962 ms

Loss rate: 0.02%

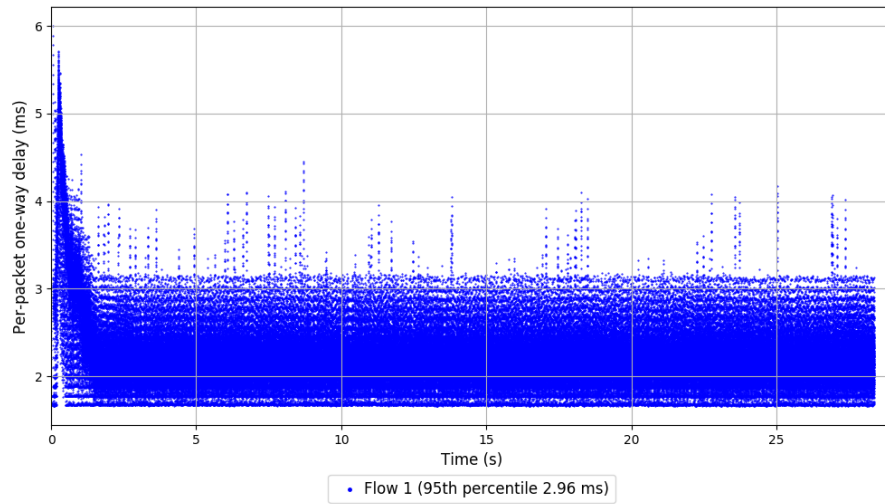
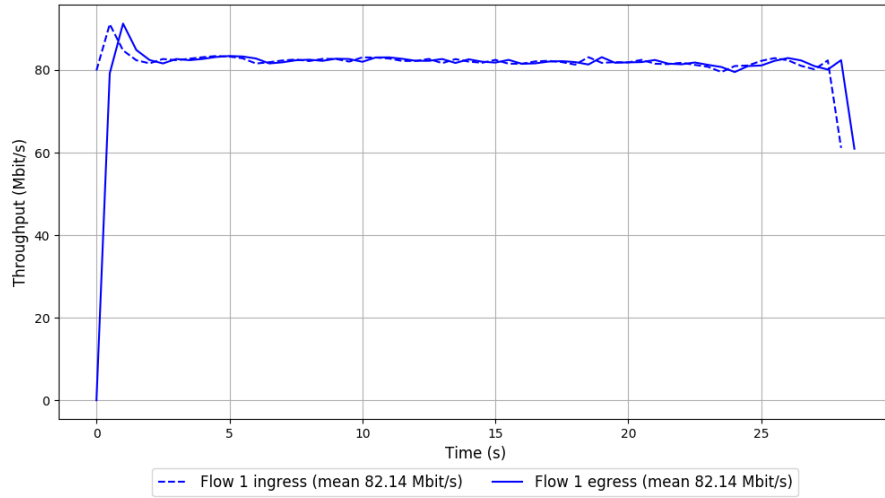
-- Flow 1:

Average throughput: 82.14 Mbit/s

95th percentile per-packet one-way delay: 2.962 ms

Loss rate: 0.02%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MuseST

Start at: 2019-12-11 12:55:10

End at: 2019-12-11 12:55:40

Local clock offset: -3.229 ms

Remote clock offset: 0.653 ms

Below is generated by plot.py at 2019-12-11 13:10:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.14 Mbit/s

95th percentile per-packet one-way delay: 2.901 ms

Loss rate: 0.02%

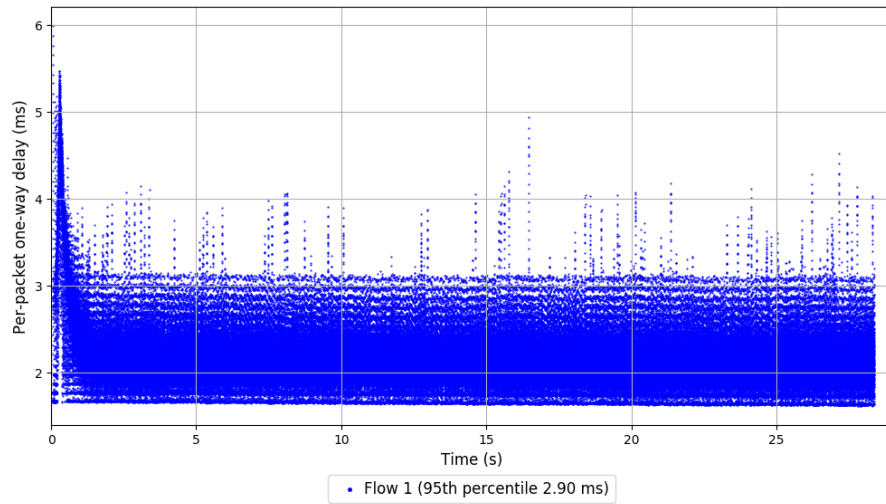
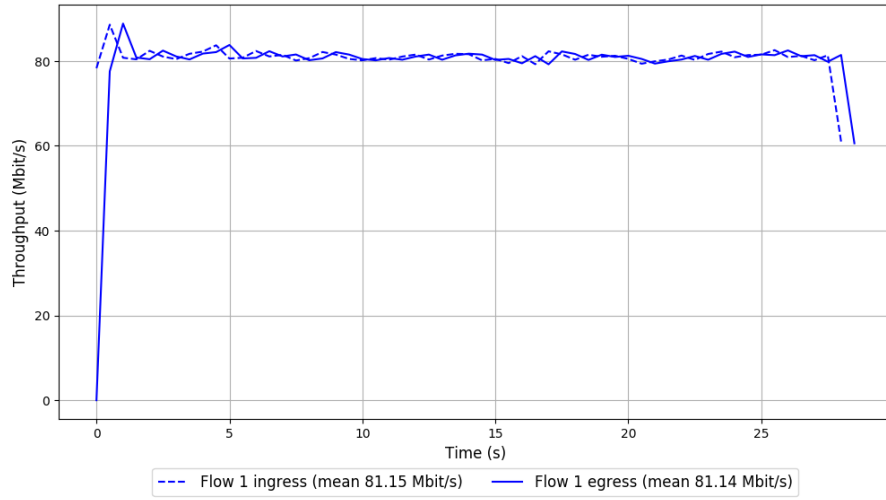
-- Flow 1:

Average throughput: 81.14 Mbit/s

95th percentile per-packet one-way delay: 2.901 ms

Loss rate: 0.02%

Run 5: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2019-12-11 11:12:46

End at: 2019-12-11 11:13:16

Local clock offset: -6.548 ms

Remote clock offset: 0.231 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.63 Mbit/s

95th percentile per-packet one-way delay: 9.719 ms

Loss rate: 0.08%

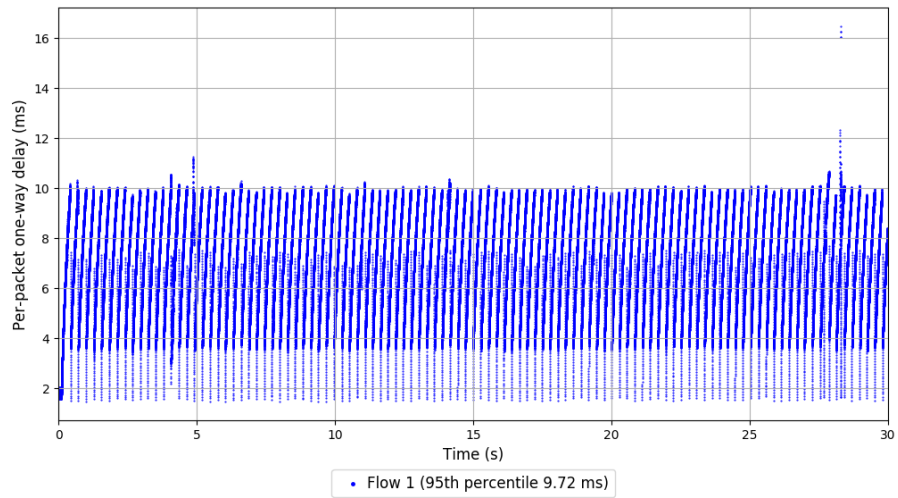
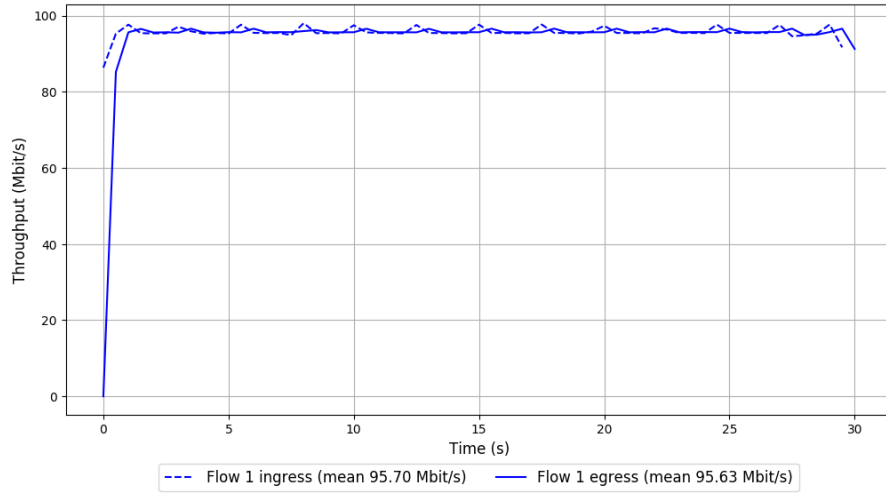
-- Flow 1:

Average throughput: 95.63 Mbit/s

95th percentile per-packet one-way delay: 9.719 ms

Loss rate: 0.08%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-12-11 11:39:51

End at: 2019-12-11 11:40:21

Local clock offset: -7.267 ms

Remote clock offset: 0.352 ms

Below is generated by plot.py at 2019-12-11 13:11:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.66 Mbit/s

95th percentile per-packet one-way delay: 9.795 ms

Loss rate: 0.07%

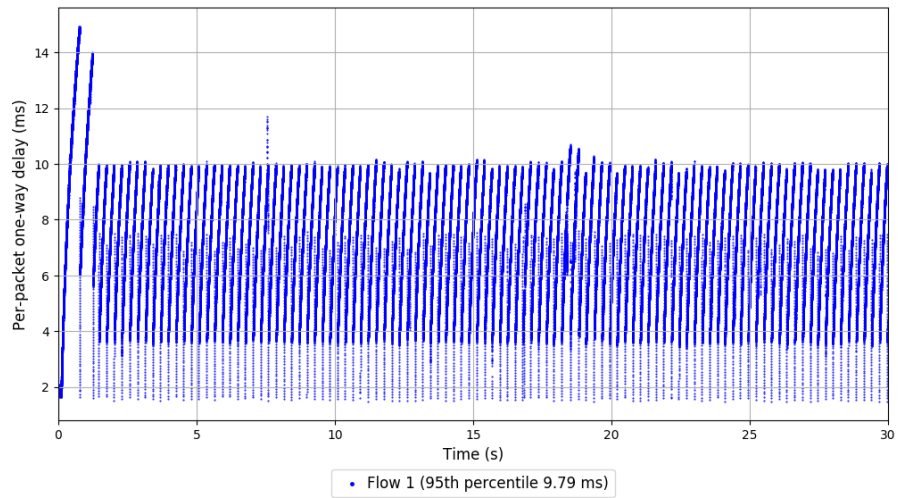
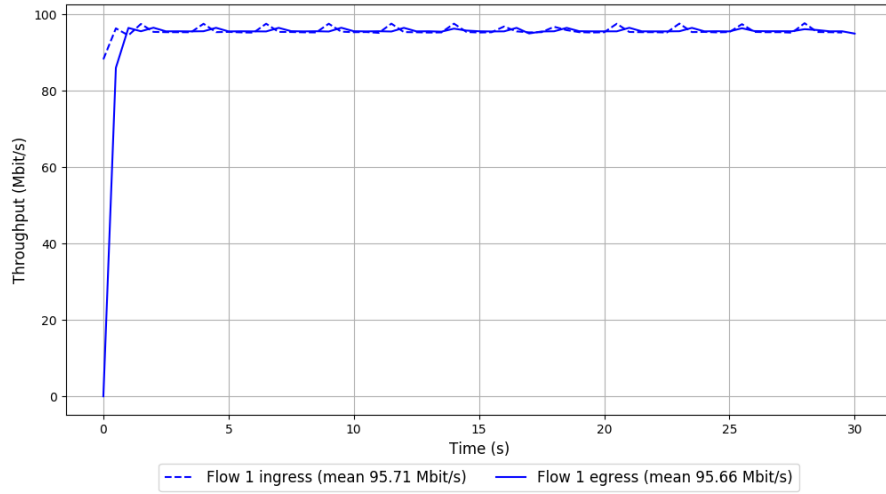
-- Flow 1:

Average throughput: 95.66 Mbit/s

95th percentile per-packet one-way delay: 9.795 ms

Loss rate: 0.07%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-12-11 12:06:51

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

Local clock offset: -5.376 ms

Remote clock offset: 0.543 ms

Below is generated by plot.py at 2019-12-11 13:11:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.66 Mbit/s

95th percentile per-packet one-way delay: 10.659 ms

Loss rate: 0.08%

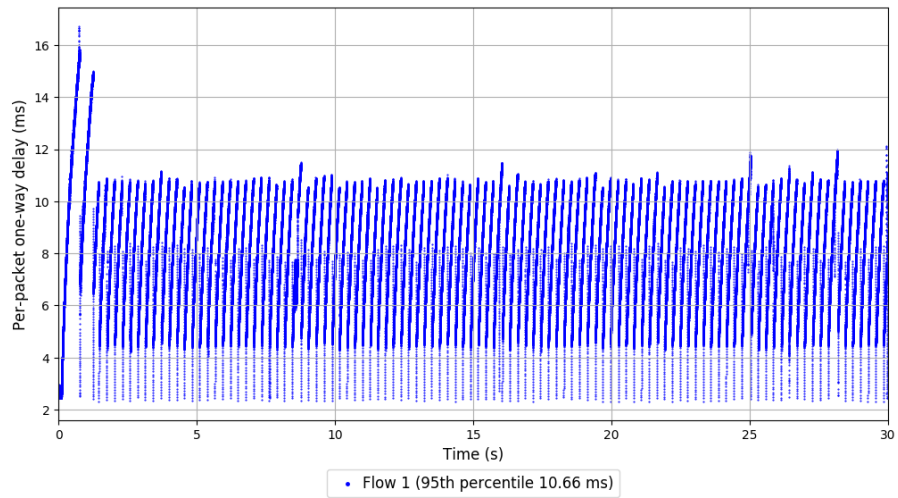
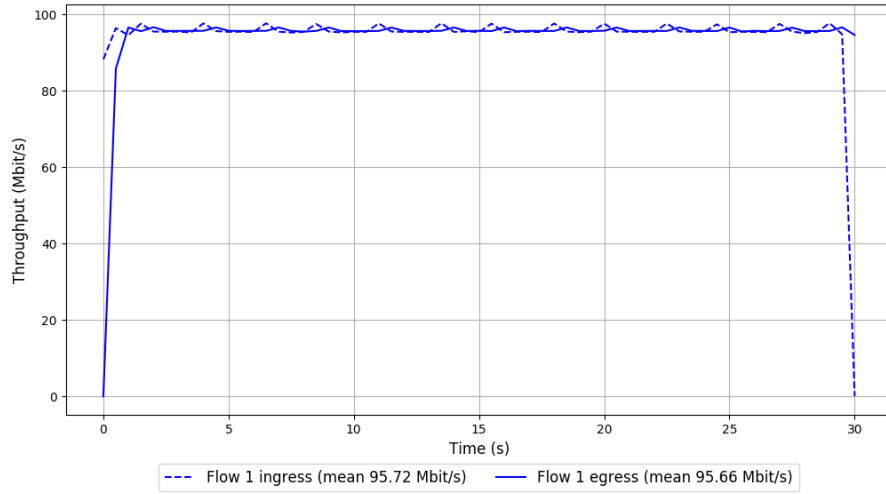
-- Flow 1:

Average throughput: 95.66 Mbit/s

95th percentile per-packet one-way delay: 10.659 ms

Loss rate: 0.08%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

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

End at: 2019-12-11 12:34:17

Local clock offset: -6.056 ms

Remote clock offset: 0.74 ms

Below is generated by plot.py at 2019-12-11 13:11:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.68 Mbit/s

95th percentile per-packet one-way delay: 9.888 ms

Loss rate: 0.08%

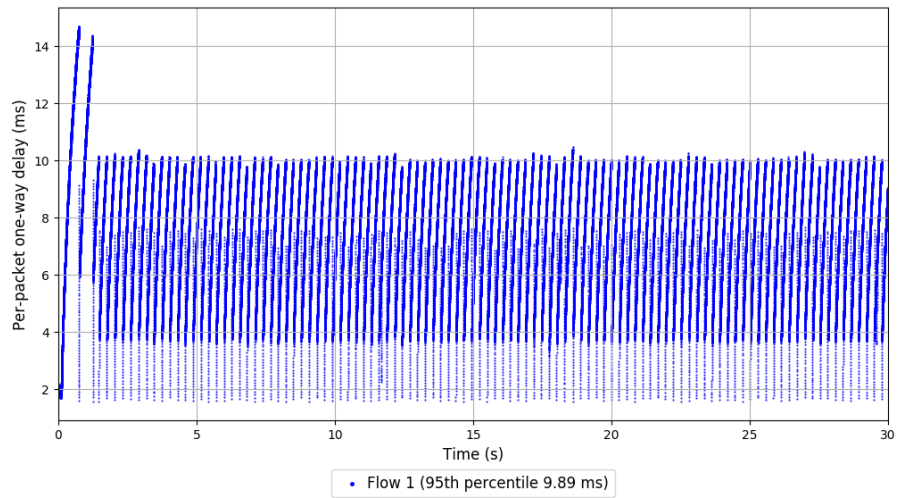
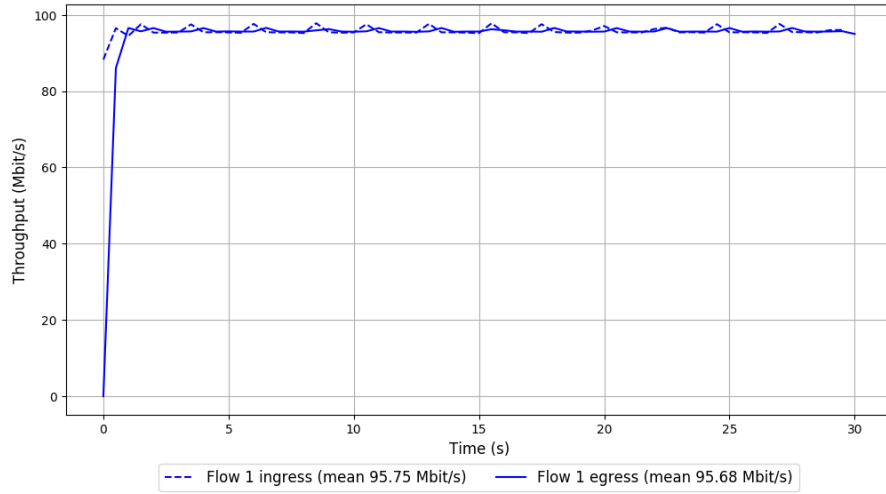
-- Flow 1:

Average throughput: 95.68 Mbit/s

95th percentile per-packet one-way delay: 9.888 ms

Loss rate: 0.08%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-12-11 13:00:48

End at: 2019-12-11 13:01:18

Local clock offset: -2.853 ms

Remote clock offset: 0.65 ms

Below is generated by plot.py at 2019-12-11 13:11:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.65 Mbit/s

95th percentile per-packet one-way delay: 9.790 ms

Loss rate: 0.07%

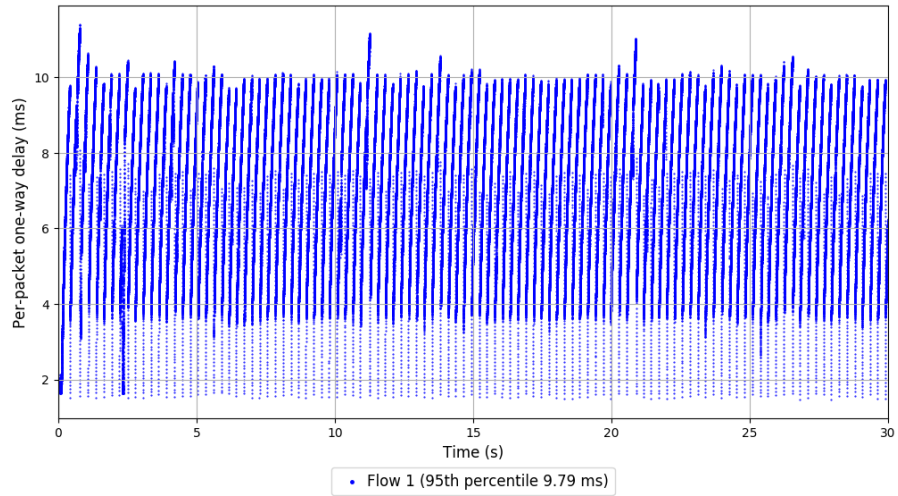
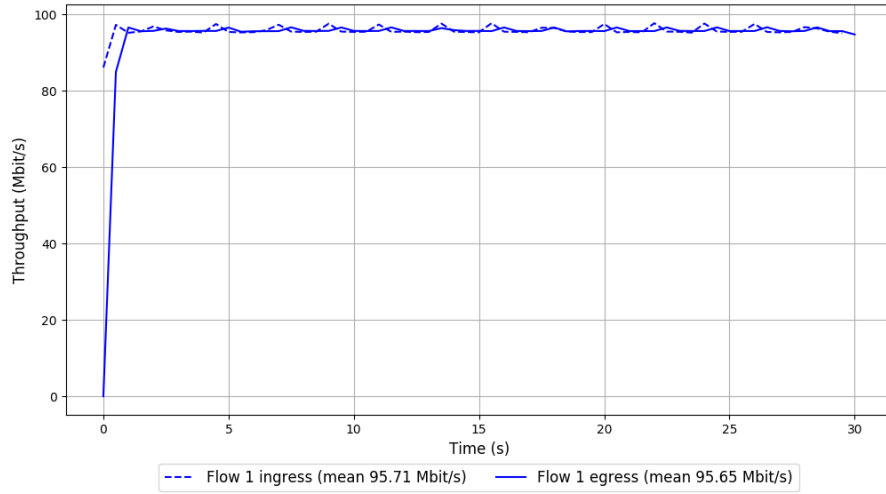
-- Flow 1:

Average throughput: 95.65 Mbit/s

95th percentile per-packet one-way delay: 9.790 ms

Loss rate: 0.07%

Run 5: Report of LEDBAT — Data Link

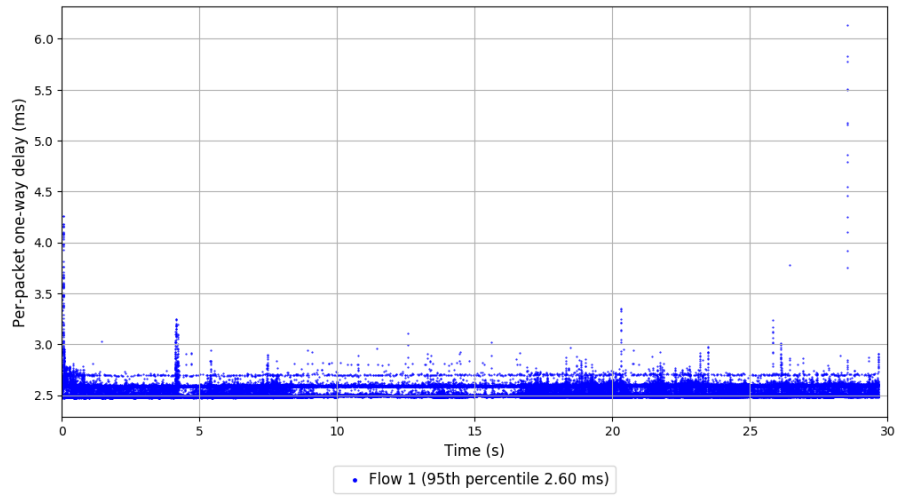
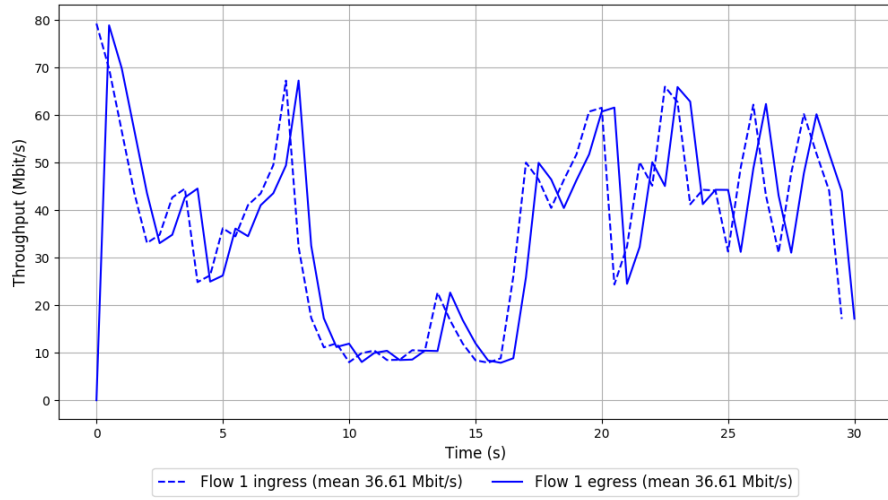


Run 1: Statistics of Muses_DecisionTree

Start at: 2019-12-11 11:03:53
End at: 2019-12-11 11:04:23
Local clock offset: -5.35 ms
Remote clock offset: -0.066 ms

Below is generated by plot.py at 2019-12-11 13:11:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 36.61 Mbit/s
95th percentile per-packet one-way delay: 2.605 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 36.61 Mbit/s
95th percentile per-packet one-way delay: 2.605 ms
Loss rate: 0.01%

Run 1: Report of Muses_DecisionTree — Data Link



Run 2: Statistics of Muses_DecisionTree

Start at: 2019-12-11 11:30:55

End at: 2019-12-11 11:31:25

Local clock offset: -6.631 ms

Remote clock offset: 0.21 ms

Below is generated by plot.py at 2019-12-11 13:11:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.84 Mbit/s

95th percentile per-packet one-way delay: 2.562 ms

Loss rate: 0.00%

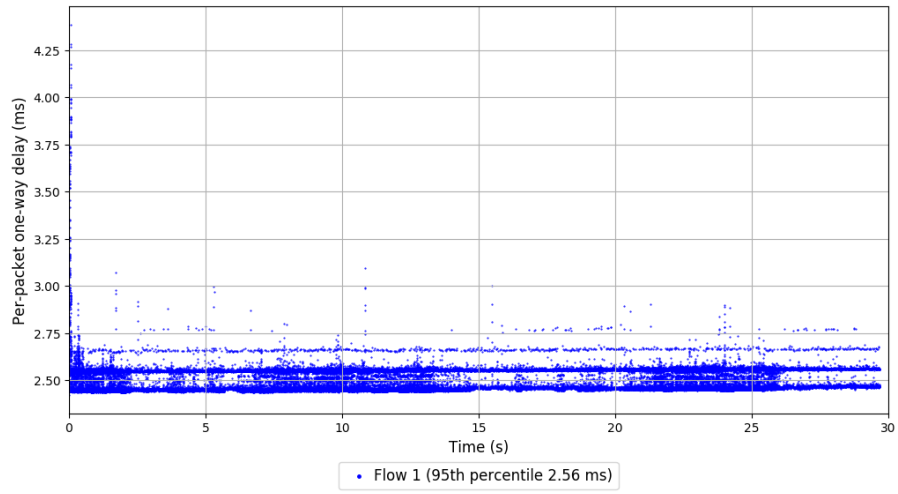
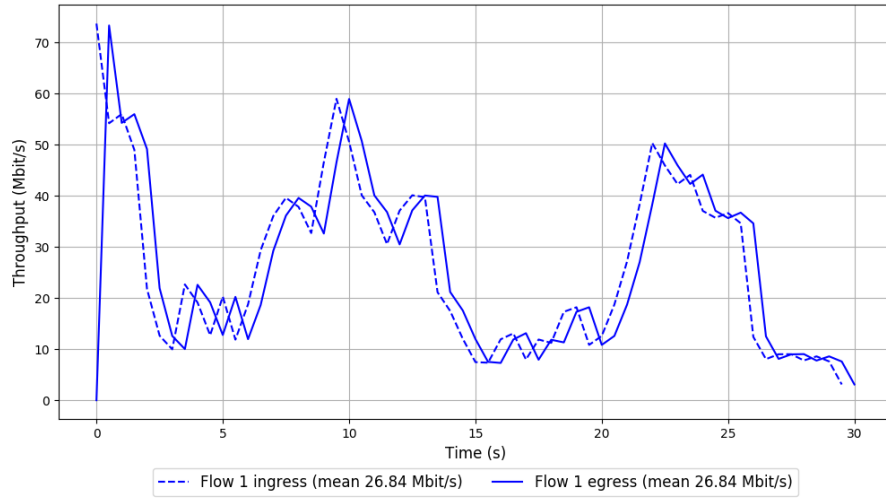
-- Flow 1:

Average throughput: 26.84 Mbit/s

95th percentile per-packet one-way delay: 2.562 ms

Loss rate: 0.00%

Run 2: Report of Muses_DecisionTree — Data Link



Run 3: Statistics of Muses_DecisionTree

Start at: 2019-12-11 11:57:56

End at: 2019-12-11 11:58:26

Local clock offset: -5.488 ms

Remote clock offset: 0.472 ms

Below is generated by plot.py at 2019-12-11 13:11:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.61 Mbit/s

95th percentile per-packet one-way delay: 2.662 ms

Loss rate: 0.01%

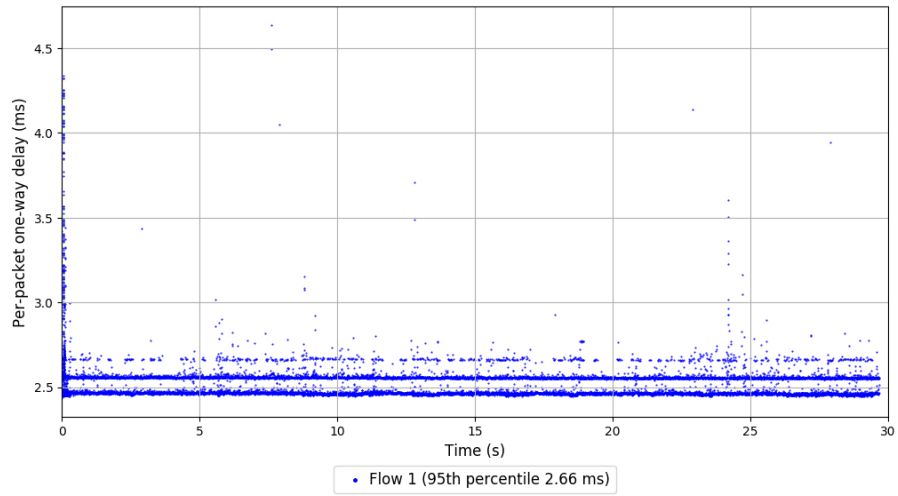
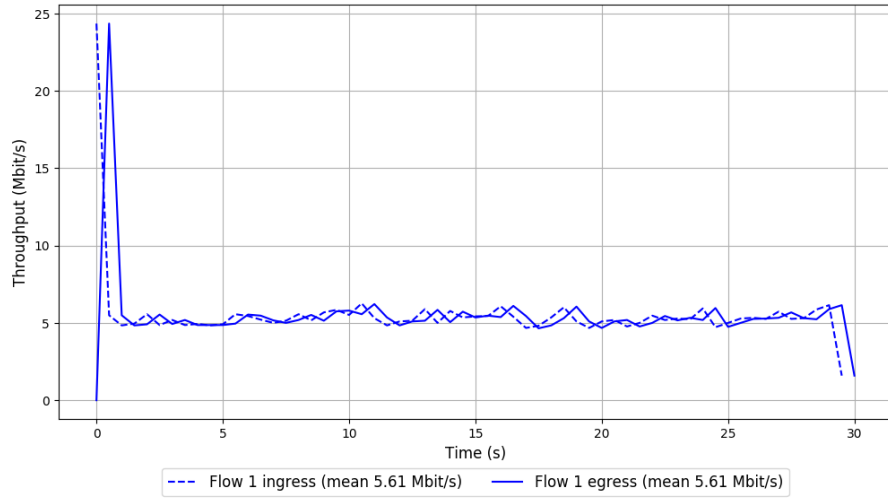
-- Flow 1:

Average throughput: 5.61 Mbit/s

95th percentile per-packet one-way delay: 2.662 ms

Loss rate: 0.01%

Run 3: Report of Muses_DecisionTree — Data Link



Run 4: Statistics of Muses_DecisionTree

Start at: 2019-12-11 12:24:52

End at: 2019-12-11 12:25:22

Local clock offset: -6.069 ms

Remote clock offset: 0.61 ms

Below is generated by plot.py at 2019-12-11 13:11:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.42 Mbit/s

95th percentile per-packet one-way delay: 1.922 ms

Loss rate: 0.00%

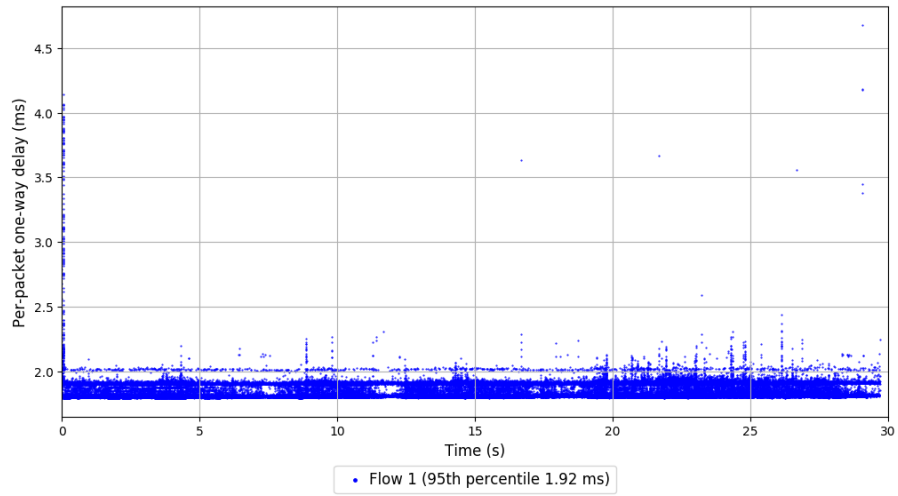
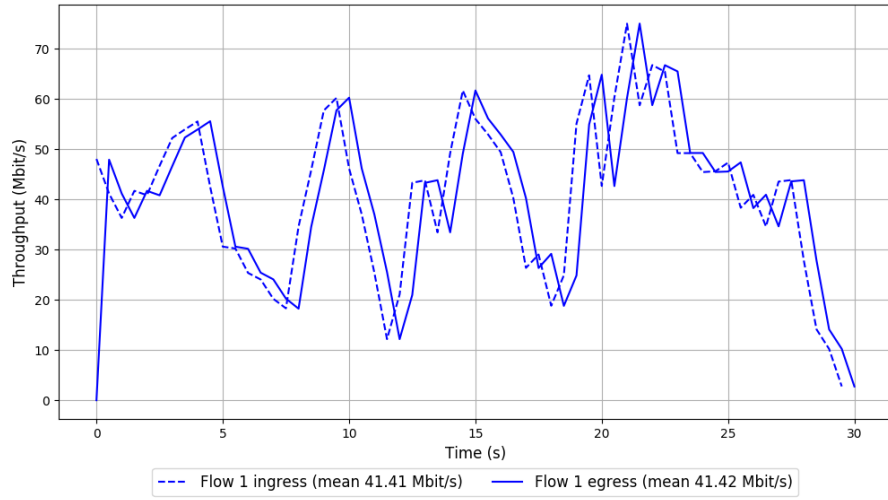
-- Flow 1:

Average throughput: 41.42 Mbit/s

95th percentile per-packet one-way delay: 1.922 ms

Loss rate: 0.00%

Run 4: Report of Muses_DecisionTree — Data Link



Run 5: Statistics of Muses_DecisionTree

Start at: 2019-12-11 12:51:52

End at: 2019-12-11 12:52:22

Local clock offset: -2.904 ms

Remote clock offset: 0.602 ms

Below is generated by plot.py at 2019-12-11 13:11:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.85 Mbit/s

95th percentile per-packet one-way delay: 2.548 ms

Loss rate: 0.02%

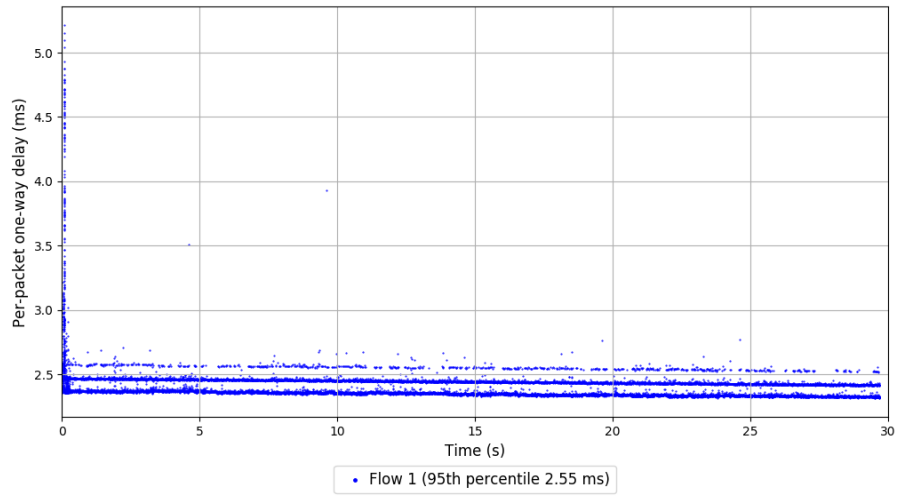
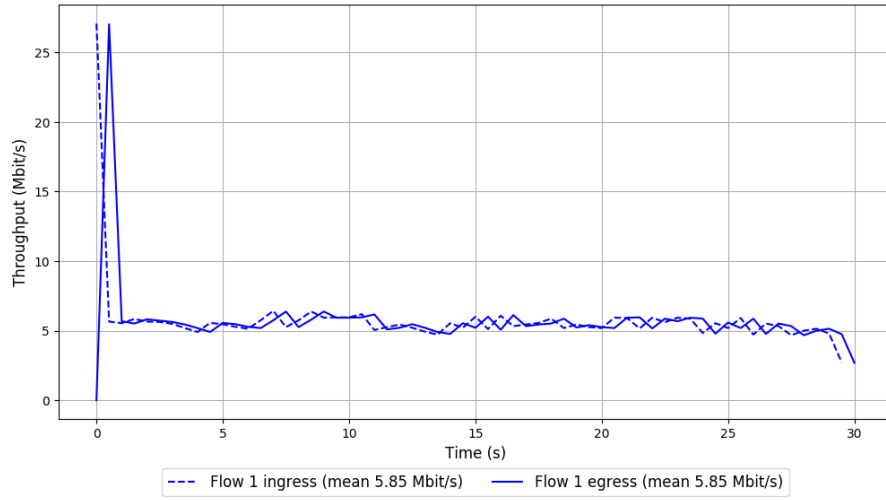
-- Flow 1:

Average throughput: 5.85 Mbit/s

95th percentile per-packet one-way delay: 2.548 ms

Loss rate: 0.02%

Run 5: Report of Muses_DecisionTree — Data Link



Run 1: Statistics of Muses_DecisionTreeH0

Start at: 2019-12-11 11:10:37

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

Local clock offset: -5.596 ms

Remote clock offset: 0.105 ms

Below is generated by plot.py at 2019-12-11 13:11:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.22 Mbit/s

95th percentile per-packet one-way delay: 2.613 ms

Loss rate: 0.02%

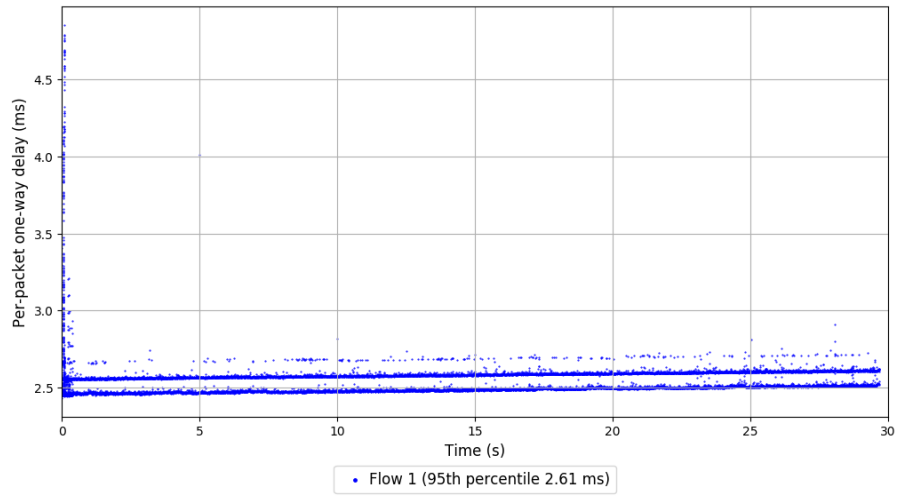
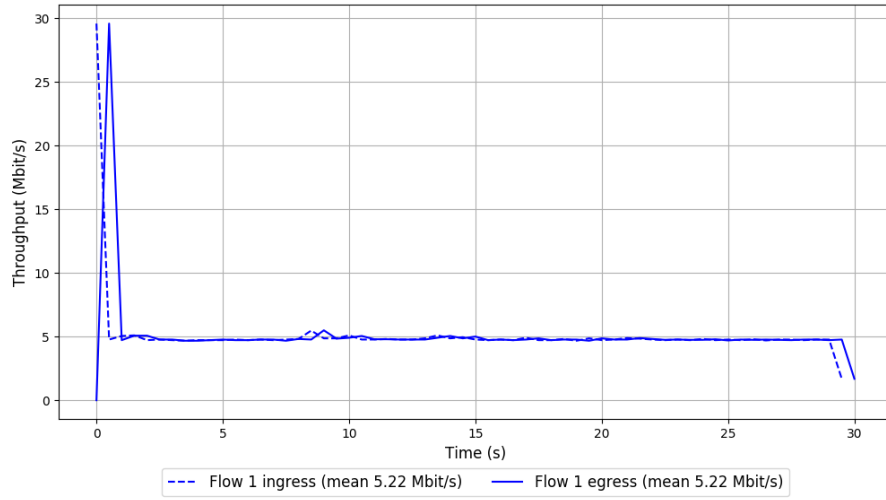
-- Flow 1:

Average throughput: 5.22 Mbit/s

95th percentile per-packet one-way delay: 2.613 ms

Loss rate: 0.02%

Run 1: Report of Muses_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2019-12-11 11:37:39

End at: 2019-12-11 11:38:09

Local clock offset: -7.421 ms

Remote clock offset: 0.253 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.65 Mbit/s

95th percentile per-packet one-way delay: 2.099 ms

Loss rate: 0.01%

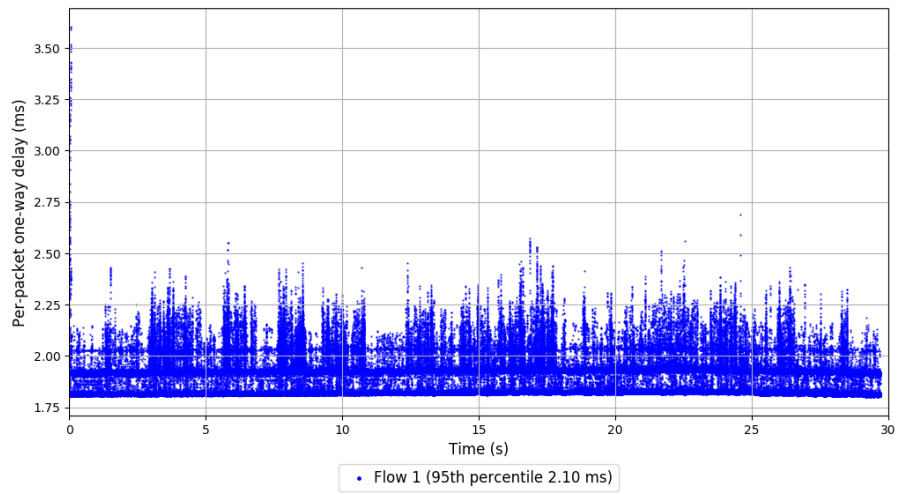
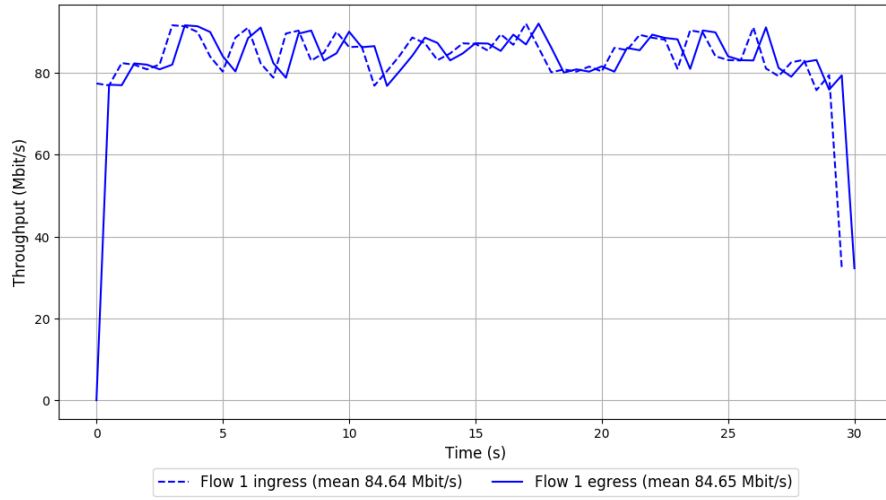
-- Flow 1:

Average throughput: 84.65 Mbit/s

95th percentile per-packet one-way delay: 2.099 ms

Loss rate: 0.01%

Run 2: Report of Muses_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2019-12-11 12:04:39

End at: 2019-12-11 12:05:09

Local clock offset: -5.39 ms

Remote clock offset: 0.548 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.47 Mbit/s

95th percentile per-packet one-way delay: 2.726 ms

Loss rate: 0.01%

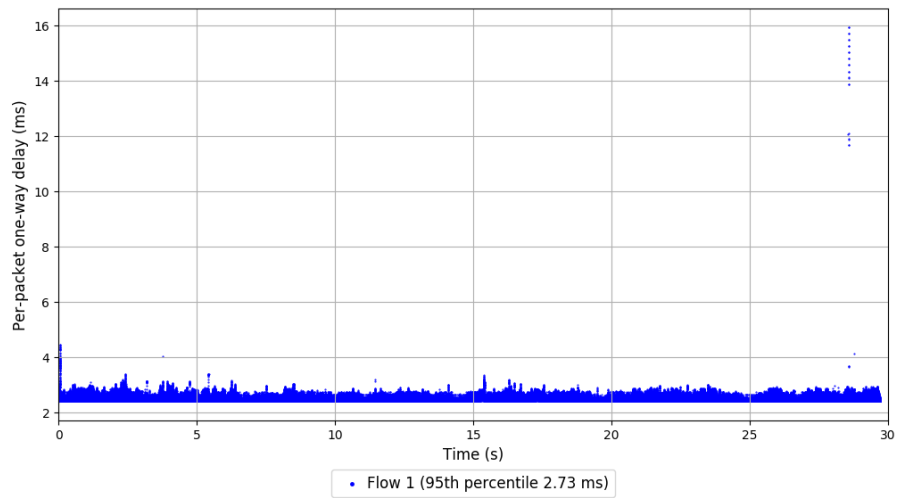
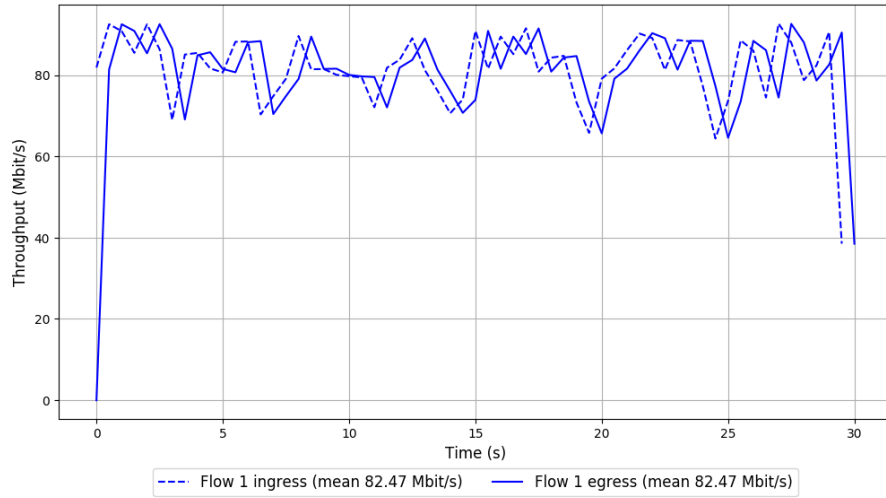
-- Flow 1:

Average throughput: 82.47 Mbit/s

95th percentile per-packet one-way delay: 2.726 ms

Loss rate: 0.01%

Run 3: Report of Muses_DecisionTreeH0 — Data Link



Run 4: Statistics of Muses_DecisionTreeH0

Start at: 2019-12-11 12:31:35

End at: 2019-12-11 12:32:05

Local clock offset: -5.379 ms

Remote clock offset: 0.694 ms

Below is generated by plot.py at 2019-12-11 13:12:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.87 Mbit/s

95th percentile per-packet one-way delay: 2.684 ms

Loss rate: 0.01%

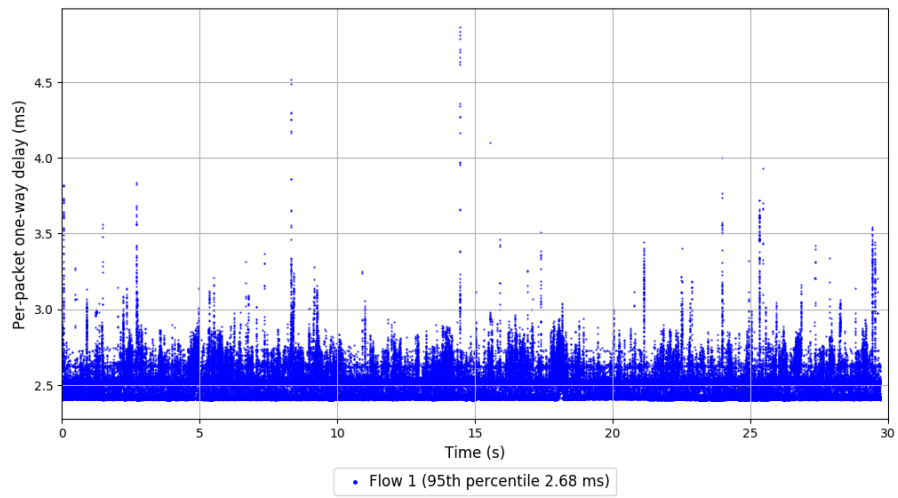
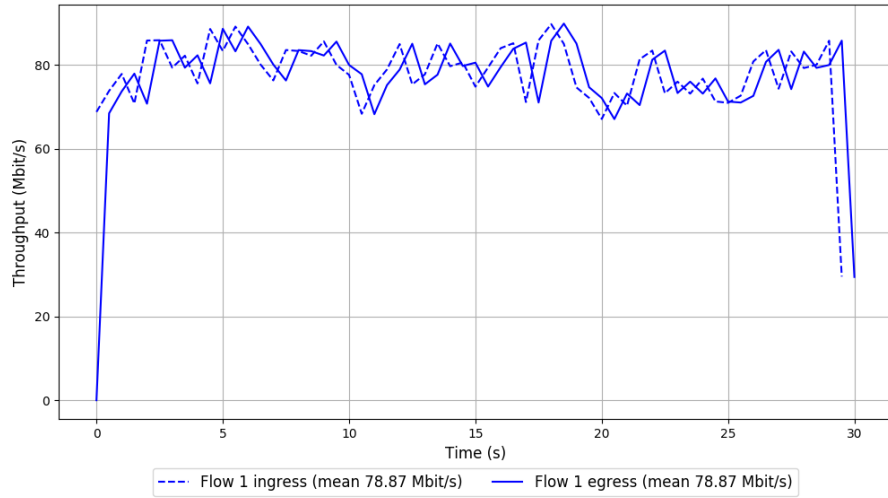
-- Flow 1:

Average throughput: 78.87 Mbit/s

95th percentile per-packet one-way delay: 2.684 ms

Loss rate: 0.01%

Run 4: Report of Muses_DecisionTreeH0 — Data Link



Run 5: Statistics of Muses_DecisionTreeH0

Start at: 2019-12-11 12:58:36

End at: 2019-12-11 12:59:06

Local clock offset: -2.3 ms

Remote clock offset: 0.58 ms

Below is generated by plot.py at 2019-12-11 13:12:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.70 Mbit/s

95th percentile per-packet one-way delay: 2.743 ms

Loss rate: 0.01%

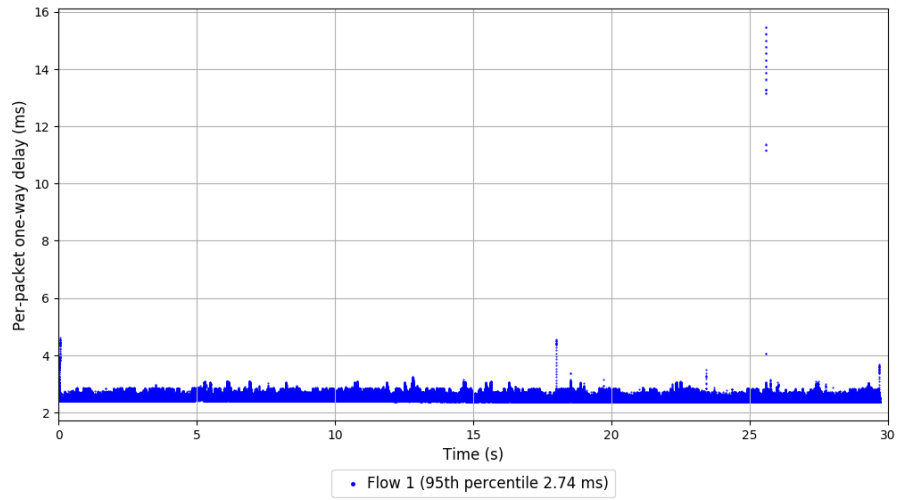
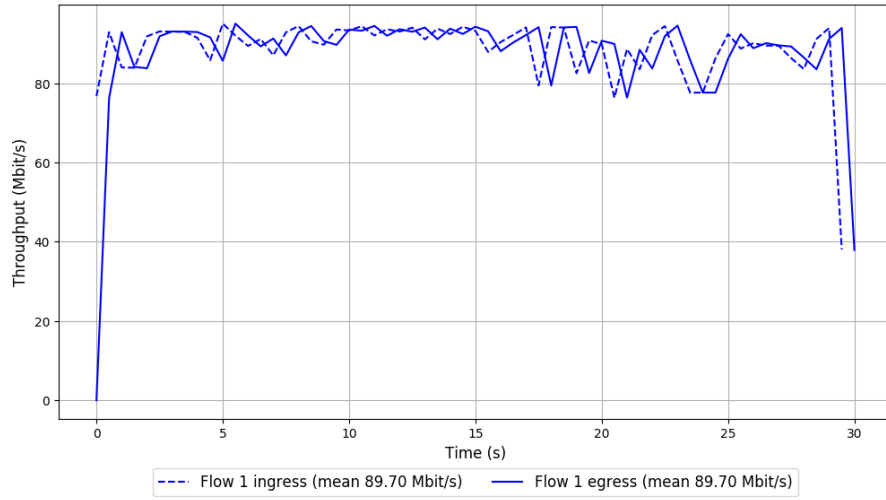
-- Flow 1:

Average throughput: 89.70 Mbit/s

95th percentile per-packet one-way delay: 2.743 ms

Loss rate: 0.01%

Run 5: Report of Muses_DecisionTreeH0 — Data Link



Run 1: Statistics of Muses_DecisionTreeR0

Start at: 2019-12-11 10:49:10
End at: 2019-12-11 10:49:41
Local clock offset: -5.419 ms
Remote clock offset: -0.109 ms

Below is generated by plot.py at 2019-12-11 13:12:25

Datalink statistics

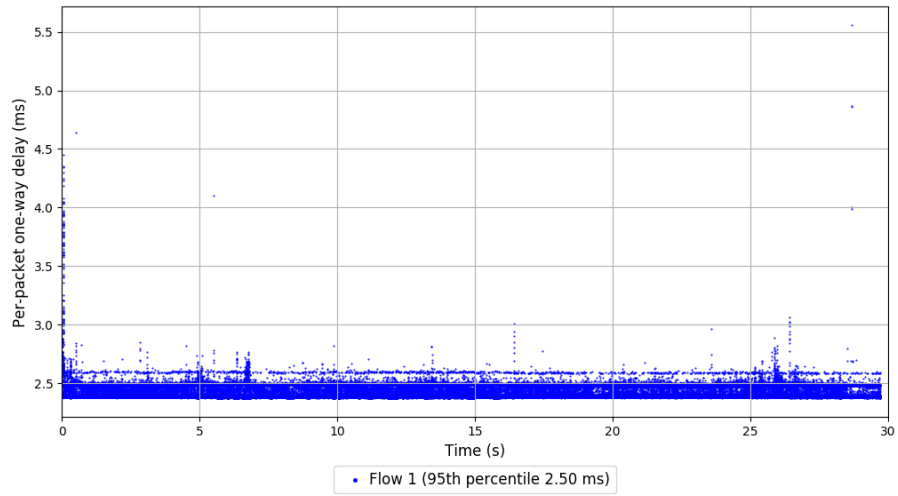
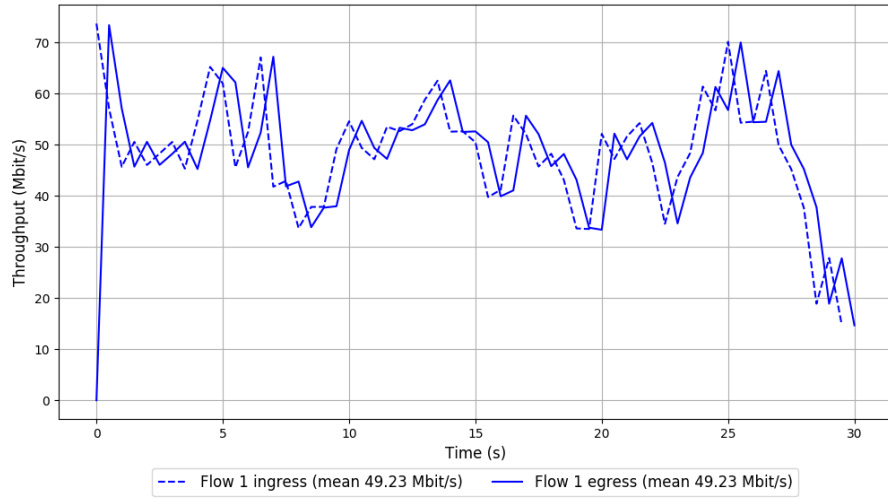
-- Total of 1 flow:

Average throughput: 49.23 Mbit/s
95th percentile per-packet one-way delay: 2.495 ms
Loss rate: 0.01%

-- Flow 1:

Average throughput: 49.23 Mbit/s
95th percentile per-packet one-way delay: 2.495 ms
Loss rate: 0.01%

Run 1: Report of Muses_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2019-12-11 11:16:10

End at: 2019-12-11 11:16:40

Local clock offset: -6.716 ms

Remote clock offset: 0.166 ms

Below is generated by plot.py at 2019-12-11 13:12:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.22 Mbit/s

95th percentile per-packet one-way delay: 1.916 ms

Loss rate: 0.01%

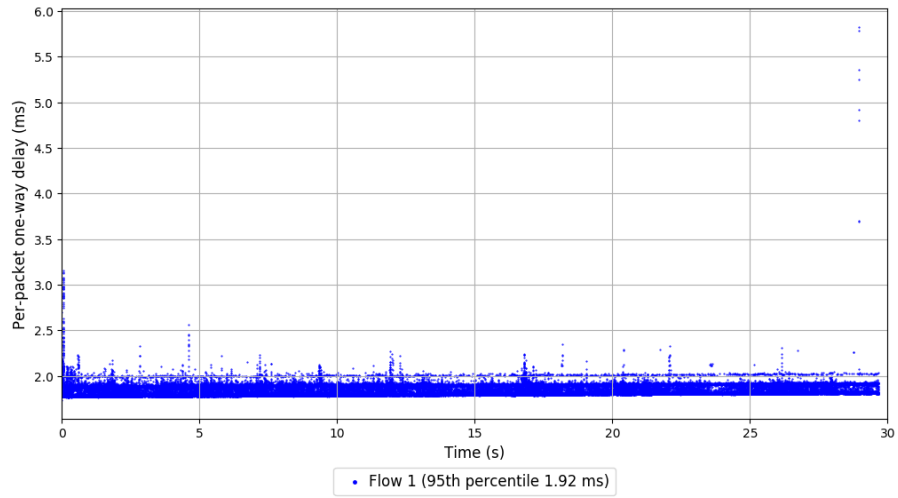
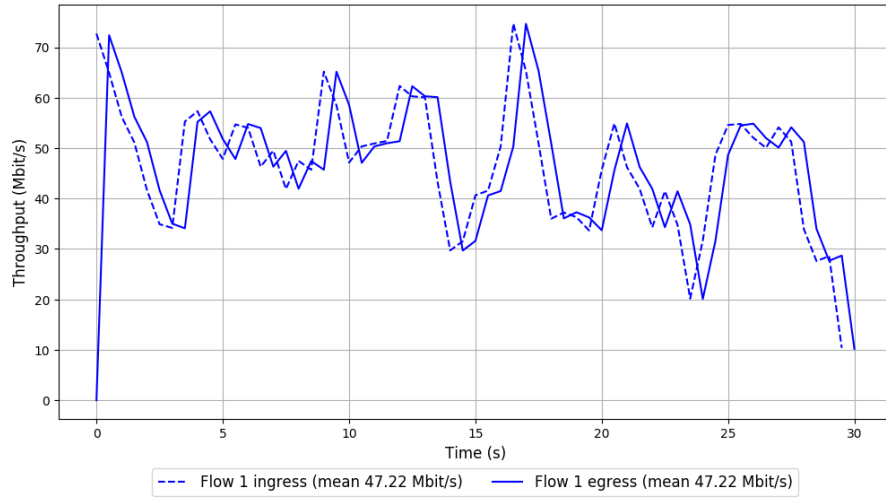
-- Flow 1:

Average throughput: 47.22 Mbit/s

95th percentile per-packet one-way delay: 1.916 ms

Loss rate: 0.01%

Run 2: Report of Muses_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-12-11 11:43:15

End at: 2019-12-11 11:43:45

Local clock offset: -6.215 ms

Remote clock offset: 0.358 ms

Below is generated by plot.py at 2019-12-11 13:12:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.25 Mbit/s

95th percentile per-packet one-way delay: 2.480 ms

Loss rate: 0.01%

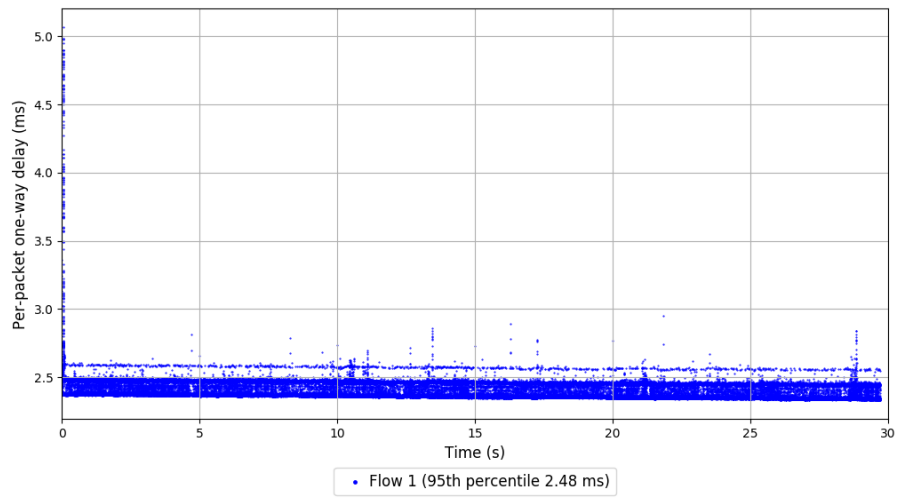
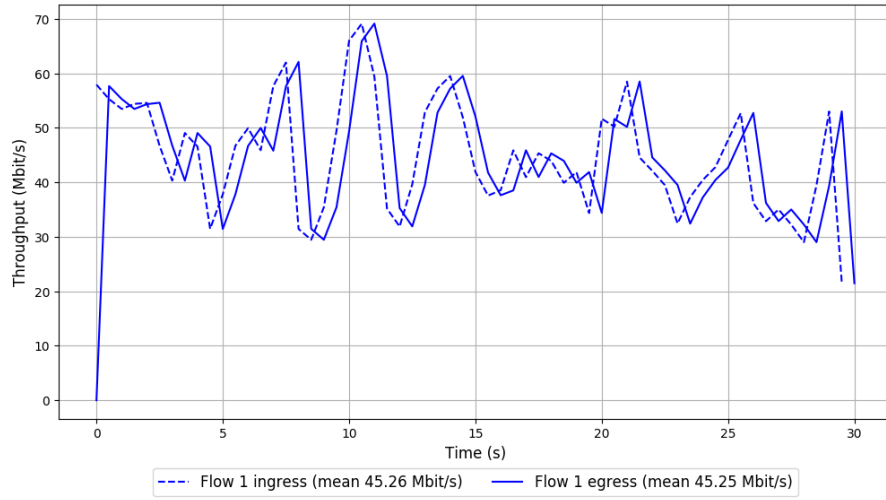
-- Flow 1:

Average throughput: 45.25 Mbit/s

95th percentile per-packet one-way delay: 2.480 ms

Loss rate: 0.01%

Run 3: Report of Muses_DecisionTreeR0 — Data Link



Run 4: Statistics of Muses_DecisionTreeR0

Start at: 2019-12-11 12:10:15

End at: 2019-12-11 12:10:45

Local clock offset: -5.379 ms

Remote clock offset: 0.572 ms

Below is generated by plot.py at 2019-12-11 13:12:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.34 Mbit/s

95th percentile per-packet one-way delay: 2.669 ms

Loss rate: 0.02%

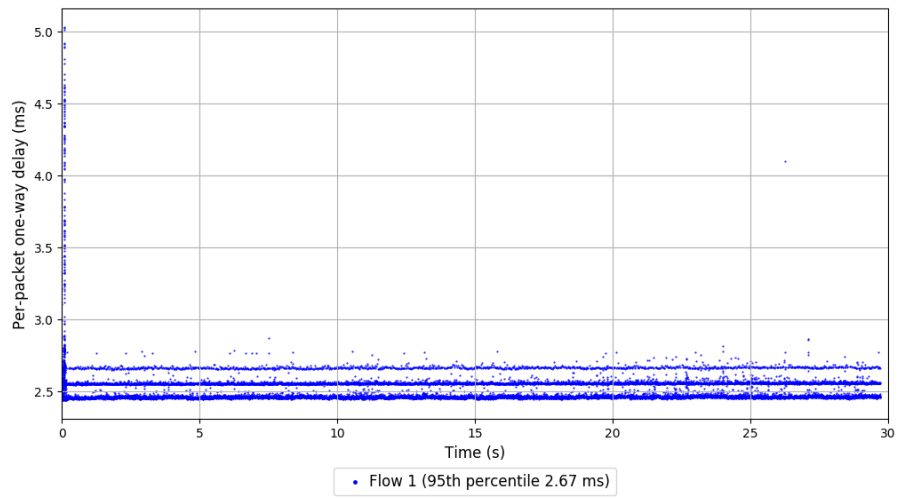
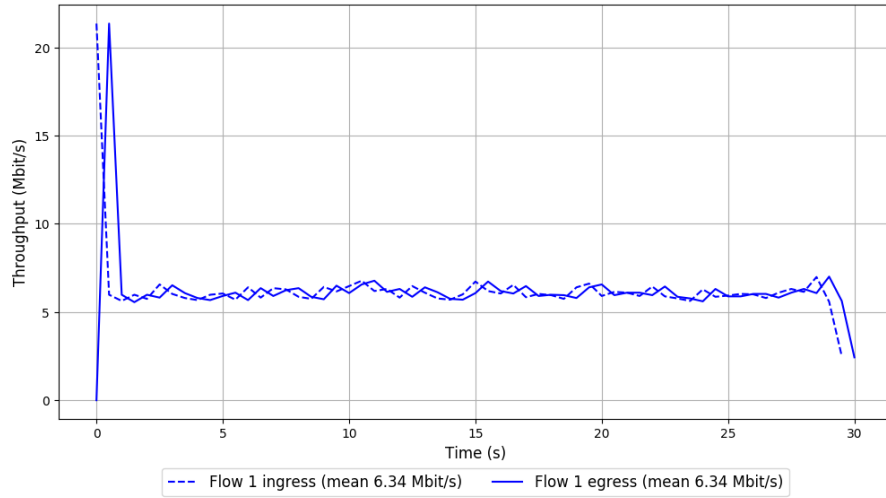
-- Flow 1:

Average throughput: 6.34 Mbit/s

95th percentile per-packet one-way delay: 2.669 ms

Loss rate: 0.02%

Run 4: Report of Muses_DecisionTreeR0 — Data Link



Run 5: Statistics of Muses_DecisionTreeR0

Start at: 2019-12-11 12:37:11

End at: 2019-12-11 12:37:41

Local clock offset: -5.361 ms

Remote clock offset: 0.767 ms

Below is generated by plot.py at 2019-12-11 13:12:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.14 Mbit/s

95th percentile per-packet one-way delay: 2.472 ms

Loss rate: 0.00%

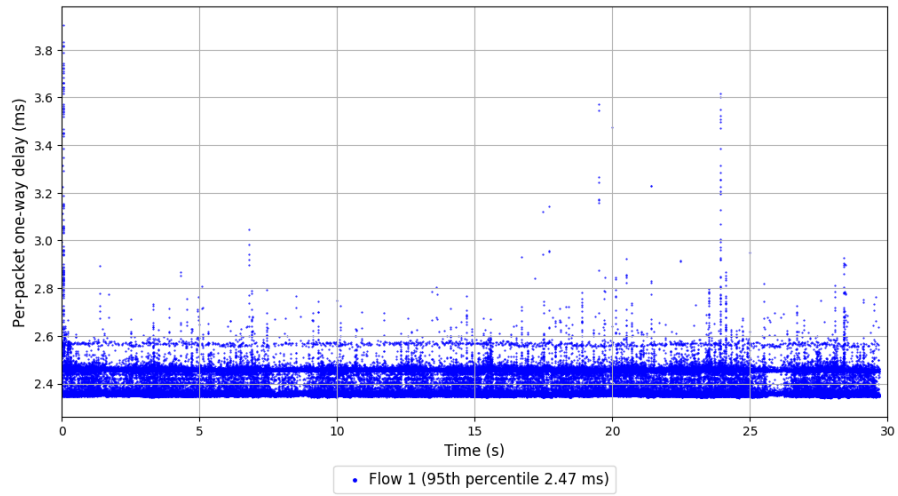
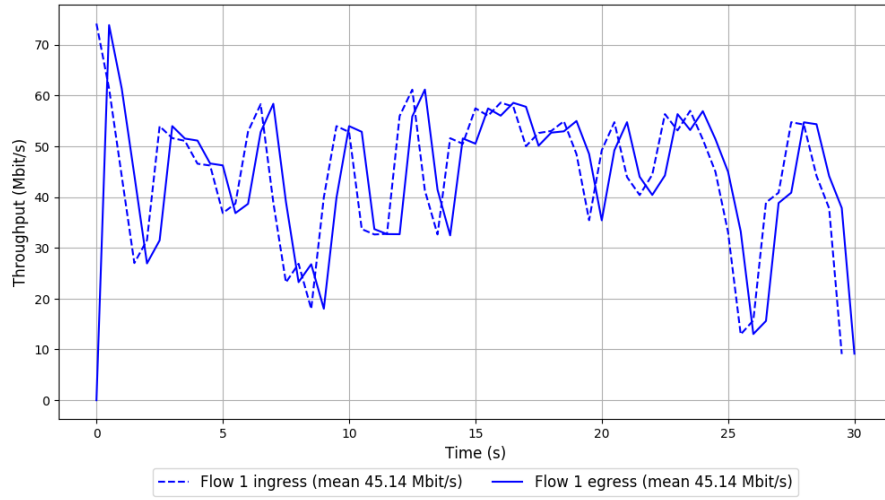
-- Flow 1:

Average throughput: 45.14 Mbit/s

95th percentile per-packet one-way delay: 2.472 ms

Loss rate: 0.00%

Run 5: Report of Muses_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-12-11 10:46:56

End at: 2019-12-11 10:47:26

Local clock offset: -5.452 ms

Remote clock offset: -0.12 ms

Below is generated by plot.py at 2019-12-11 13:13:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.69 Mbit/s

95th percentile per-packet one-way delay: 2.957 ms

Loss rate: 0.02%

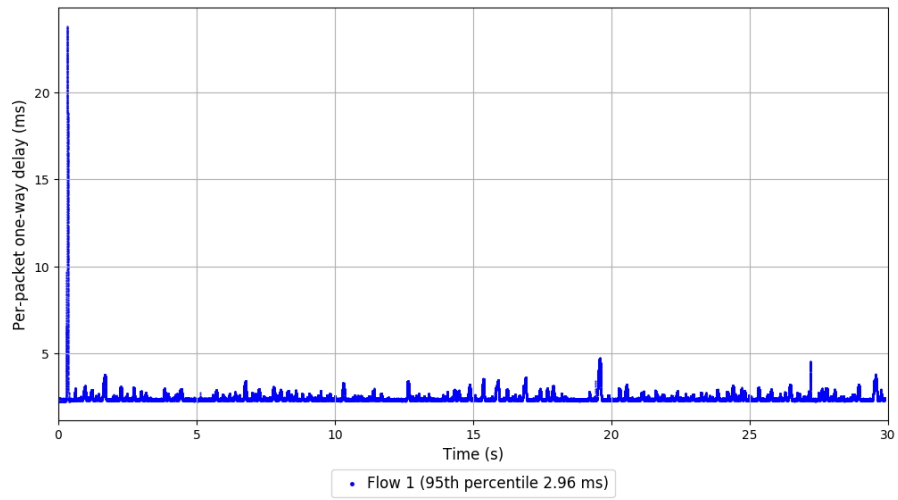
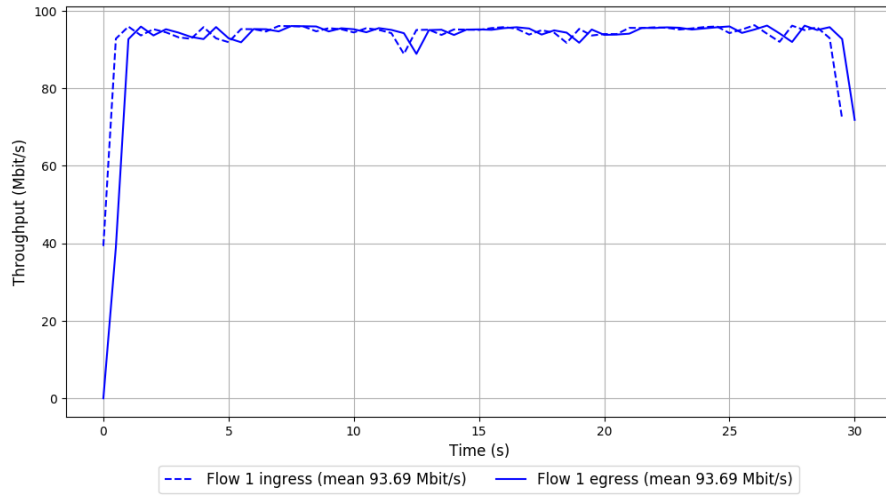
-- Flow 1:

Average throughput: 93.69 Mbit/s

95th percentile per-packet one-way delay: 2.957 ms

Loss rate: 0.02%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-12-11 11:13:56

End at: 2019-12-11 11:14:26

Local clock offset: -5.944 ms

Remote clock offset: 0.084 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.73 Mbit/s

95th percentile per-packet one-way delay: 3.058 ms

Loss rate: 0.02%

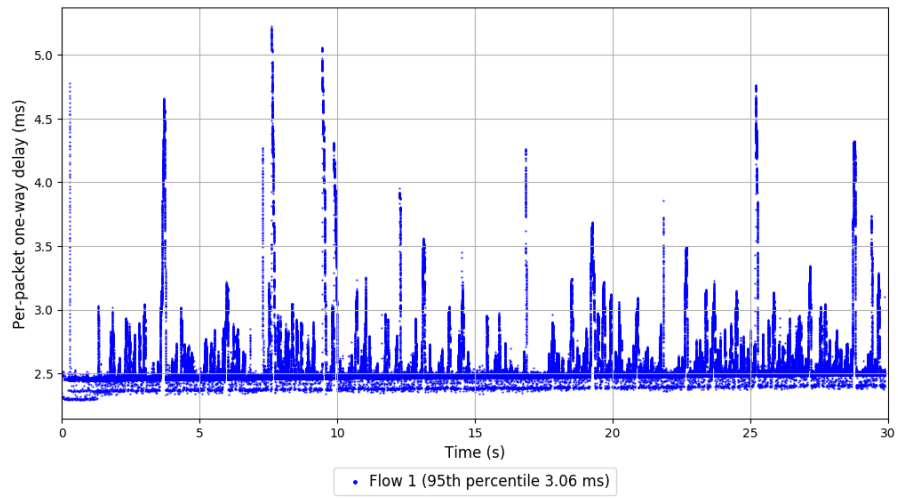
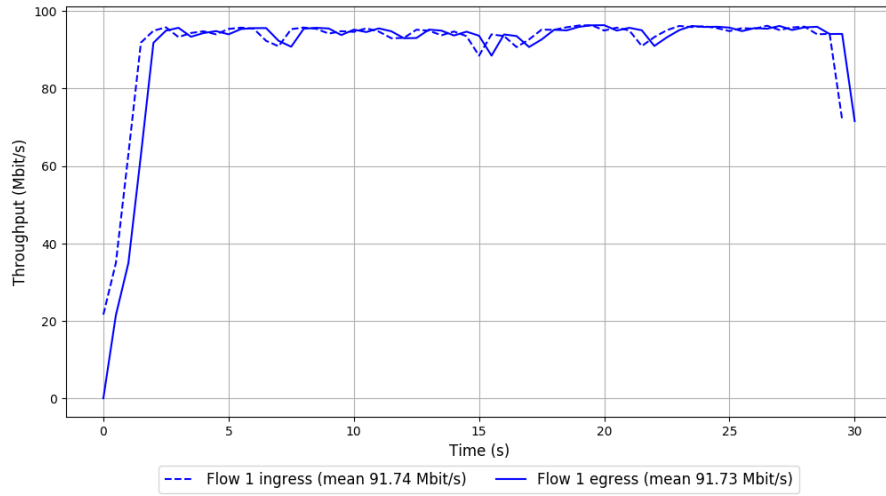
-- Flow 1:

Average throughput: 91.73 Mbit/s

95th percentile per-packet one-way delay: 3.058 ms

Loss rate: 0.02%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-12-11 11:41:01

End at: 2019-12-11 11:41:31

Local clock offset: -7.073 ms

Remote clock offset: 0.435 ms

Below is generated by plot.py at 2019-12-11 13:13:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.48 Mbit/s

95th percentile per-packet one-way delay: 2.425 ms

Loss rate: 0.02%

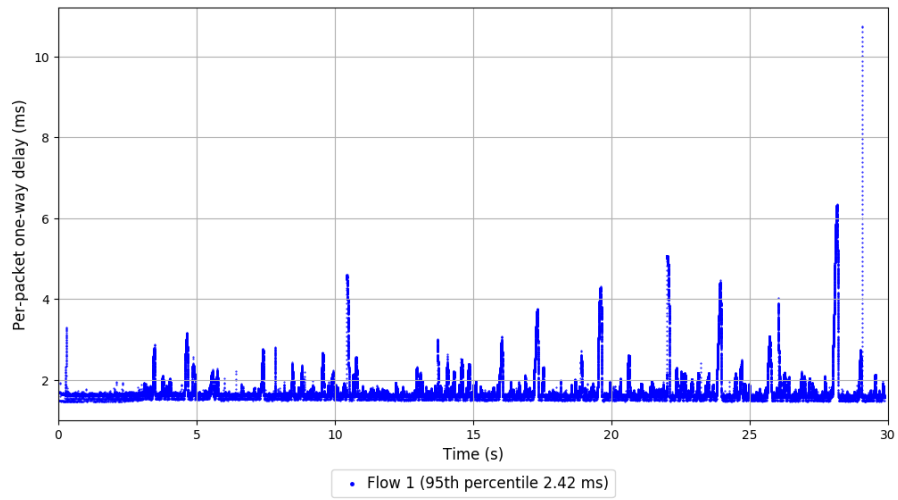
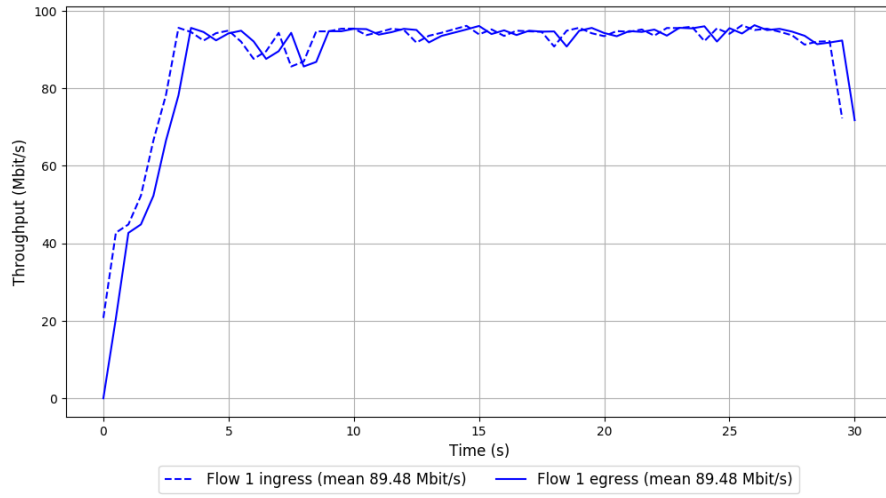
-- Flow 1:

Average throughput: 89.48 Mbit/s

95th percentile per-packet one-way delay: 2.425 ms

Loss rate: 0.02%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-12-11 12:08:00

End at: 2019-12-11 12:08:30

Local clock offset: -6.145 ms

Remote clock offset: 0.577 ms

Below is generated by plot.py at 2019-12-11 13:13:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.71 Mbit/s

95th percentile per-packet one-way delay: 2.514 ms

Loss rate: 0.03%

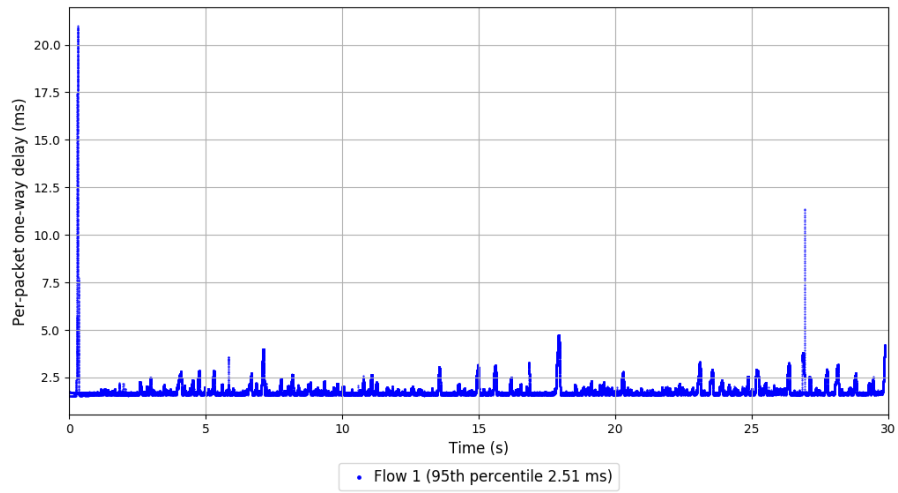
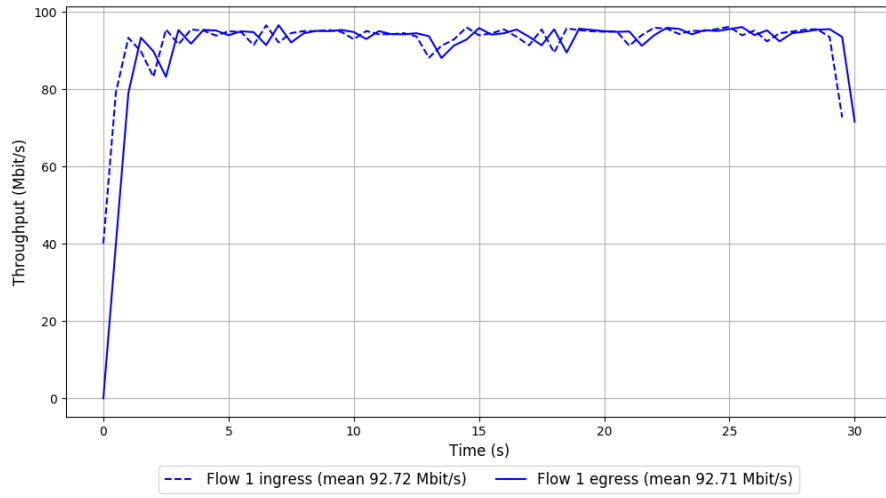
-- Flow 1:

Average throughput: 92.71 Mbit/s

95th percentile per-packet one-way delay: 2.514 ms

Loss rate: 0.03%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-12-11 12:34:56

End at: 2019-12-11 12:35:26

Local clock offset: -5.356 ms

Remote clock offset: 0.691 ms

Below is generated by plot.py at 2019-12-11 13:13:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.35 Mbit/s

95th percentile per-packet one-way delay: 2.963 ms

Loss rate: 0.02%

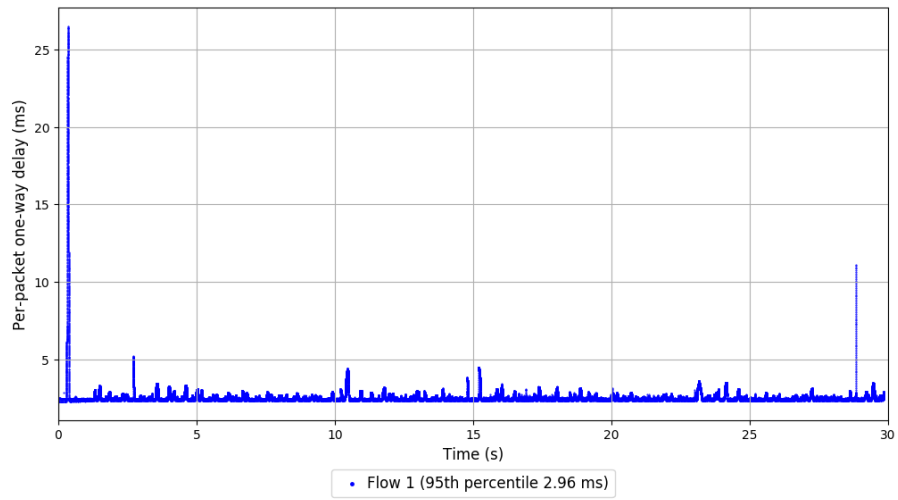
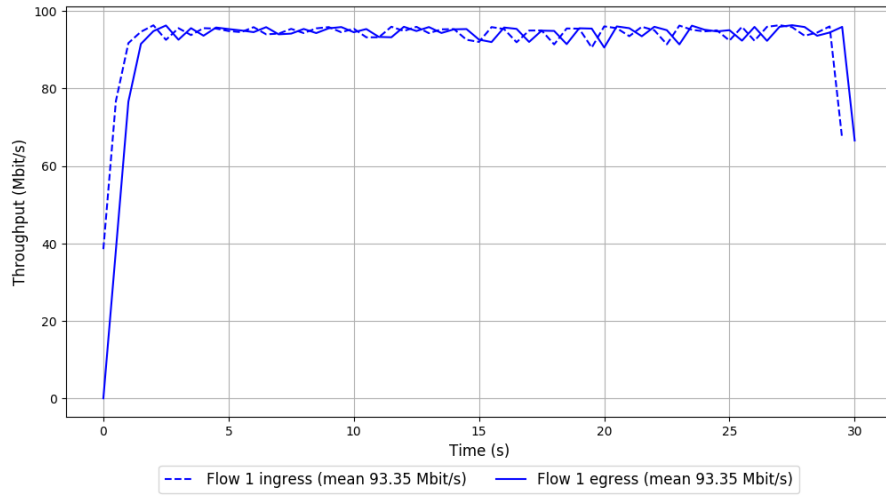
-- Flow 1:

Average throughput: 93.35 Mbit/s

95th percentile per-packet one-way delay: 2.963 ms

Loss rate: 0.02%

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2019-12-11 10:51:25
End at: 2019-12-11 10:51:55
Local clock offset: -6.09 ms
Remote clock offset: -0.157 ms

Below is generated by plot.py at 2019-12-11 13:13:18

Datalink statistics

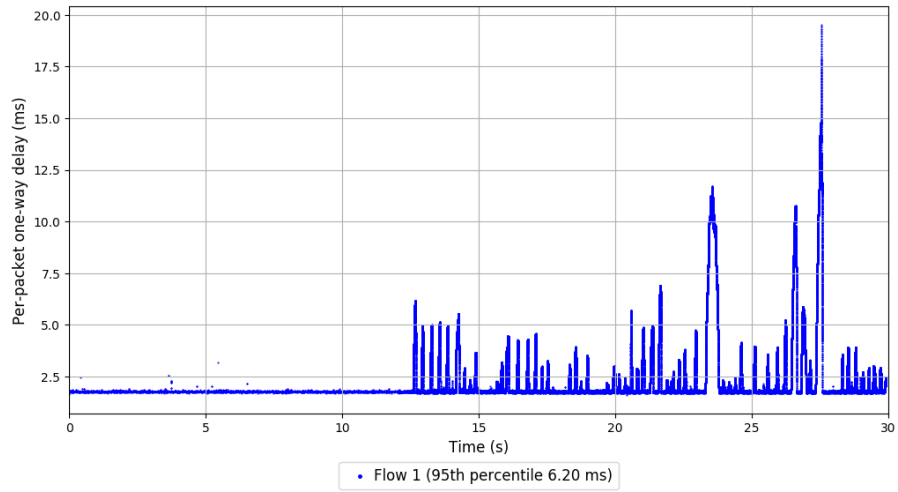
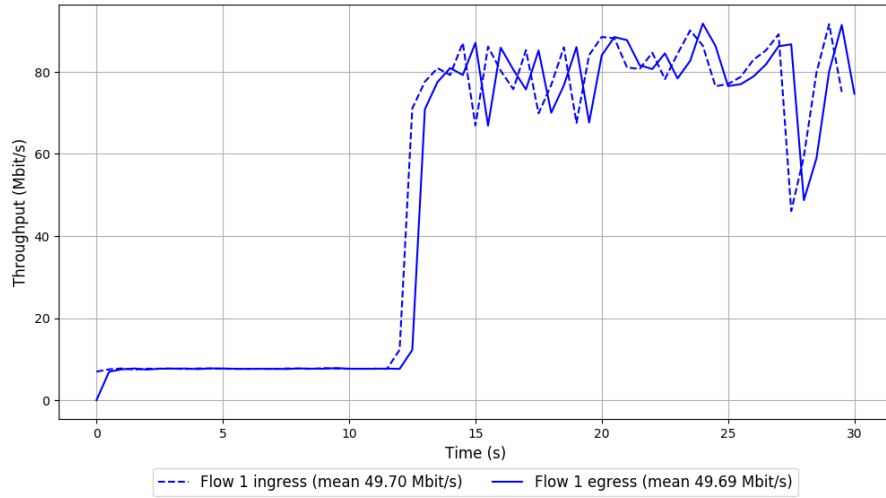
-- Total of 1 flow:

Average throughput: 49.69 Mbit/s
95th percentile per-packet one-way delay: 6.204 ms
Loss rate: 0.04%

-- Flow 1:

Average throughput: 49.69 Mbit/s
95th percentile per-packet one-way delay: 6.204 ms
Loss rate: 0.04%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-12-11 11:18:25

End at: 2019-12-11 11:18:55

Local clock offset: -6.148 ms

Remote clock offset: 0.163 ms

Below is generated by plot.py at 2019-12-11 13:14:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.69 Mbit/s

95th percentile per-packet one-way delay: 38.883 ms

Loss rate: 0.04%

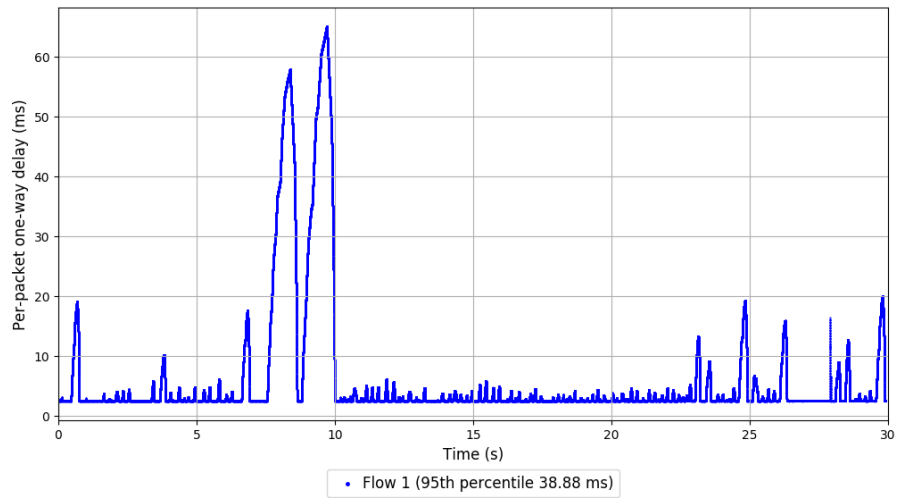
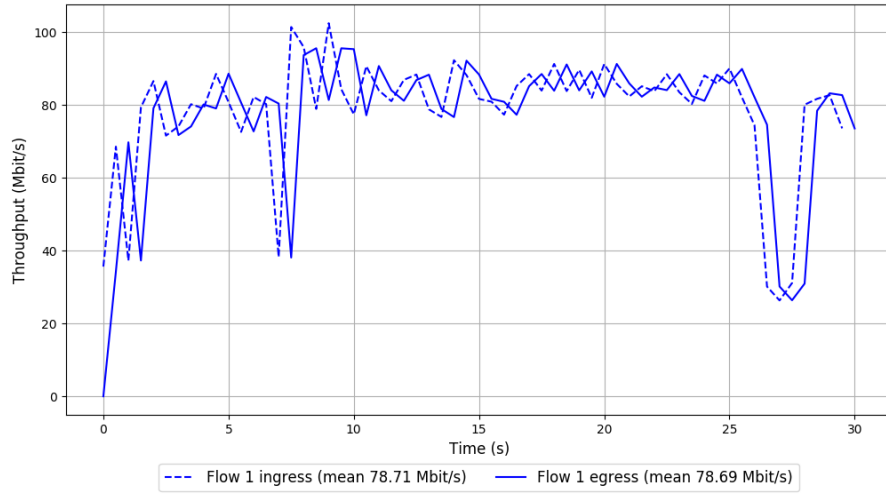
-- Flow 1:

Average throughput: 78.69 Mbit/s

95th percentile per-packet one-way delay: 38.883 ms

Loss rate: 0.04%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-12-11 11:45:29

End at: 2019-12-11 11:45:59

Local clock offset: -5.972 ms

Remote clock offset: 0.363 ms

Below is generated by plot.py at 2019-12-11 13:14:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.98 Mbit/s

95th percentile per-packet one-way delay: 57.784 ms

Loss rate: 1.46%

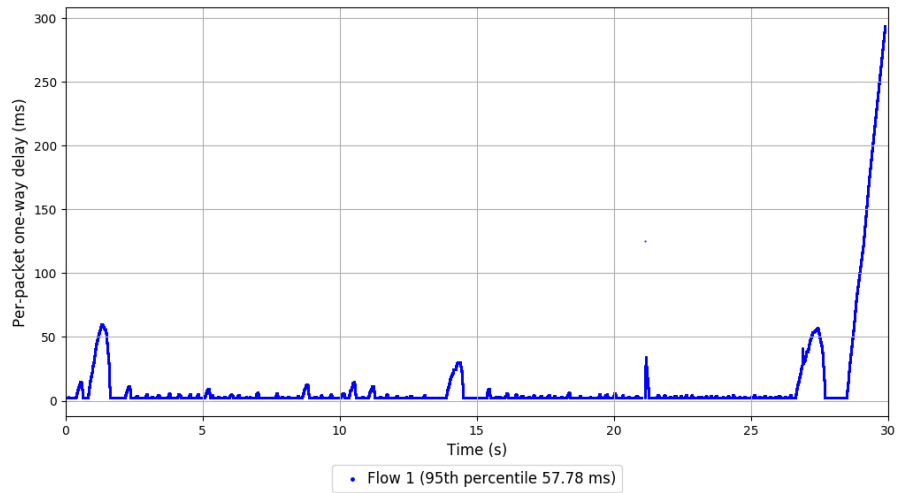
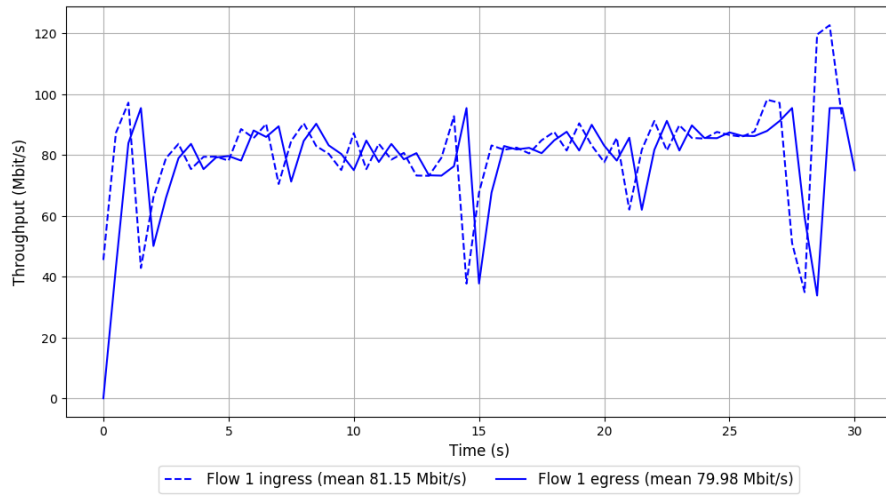
-- Flow 1:

Average throughput: 79.98 Mbit/s

95th percentile per-packet one-way delay: 57.784 ms

Loss rate: 1.46%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

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

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

Local clock offset: -5.377 ms

Remote clock offset: 0.549 ms

Below is generated by plot.py at 2019-12-11 13:15:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.39 Mbit/s

95th percentile per-packet one-way delay: 168.971 ms

Loss rate: 1.19%

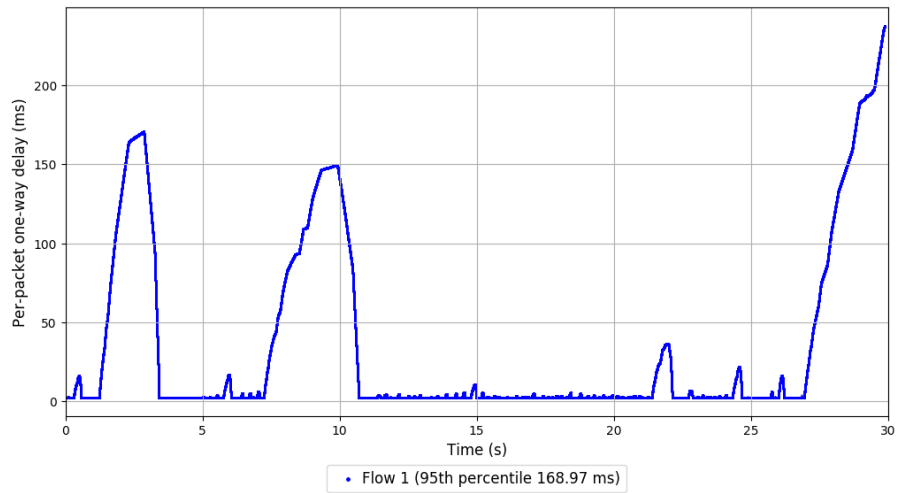
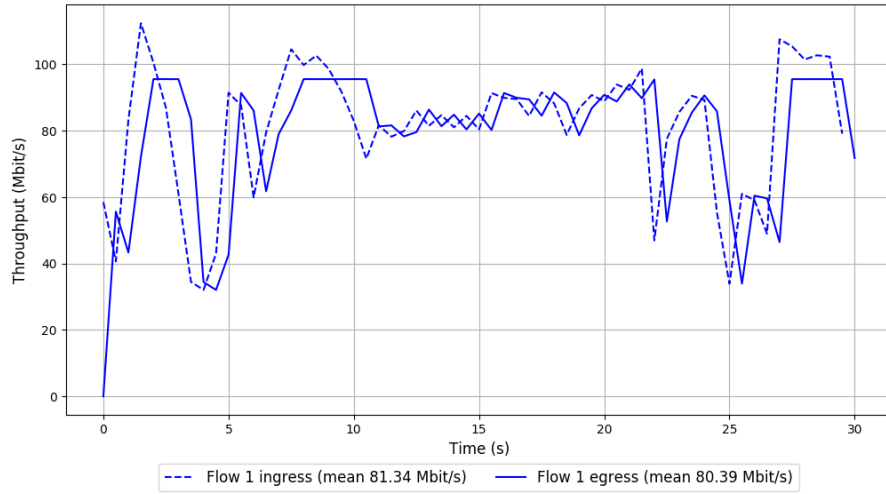
-- Flow 1:

Average throughput: 80.39 Mbit/s

95th percentile per-packet one-way delay: 168.971 ms

Loss rate: 1.19%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-12-11 12:39:25

End at: 2019-12-11 12:39:55

Local clock offset: -5.039 ms

Remote clock offset: 0.639 ms

Below is generated by plot.py at 2019-12-11 13:15:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.00 Mbit/s

95th percentile per-packet one-way delay: 34.938 ms

Loss rate: 0.20%

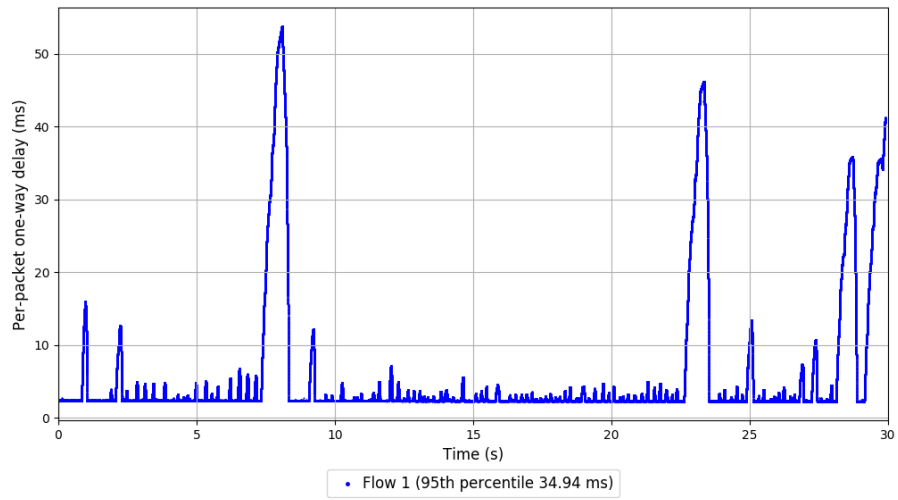
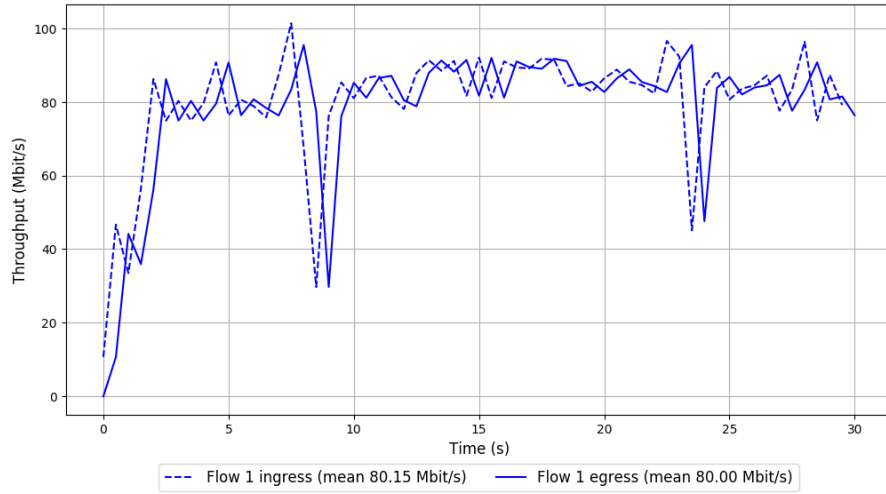
-- Flow 1:

Average throughput: 80.00 Mbit/s

95th percentile per-packet one-way delay: 34.938 ms

Loss rate: 0.20%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-12-11 10:50:17

End at: 2019-12-11 10:50:47

Local clock offset: -6.153 ms

Remote clock offset: -0.09 ms

Below is generated by plot.py at 2019-12-11 13:15:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.32 Mbit/s

95th percentile per-packet one-way delay: 7.648 ms

Loss rate: 0.02%

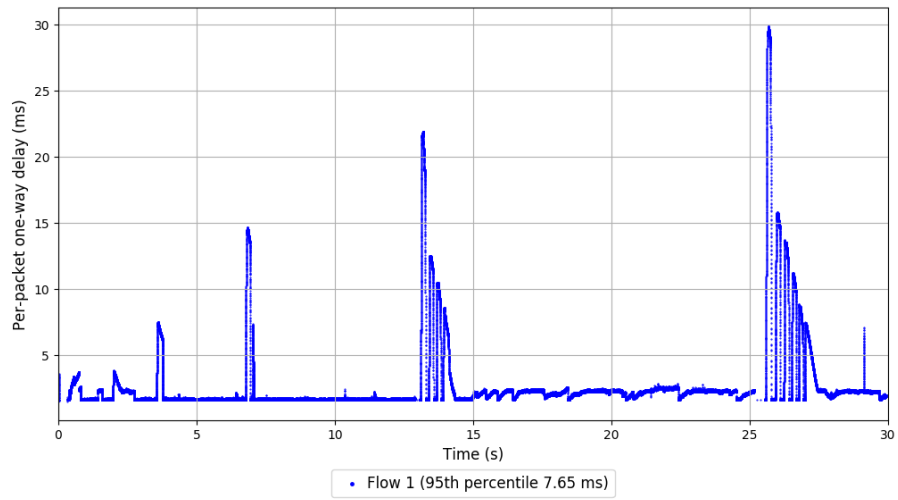
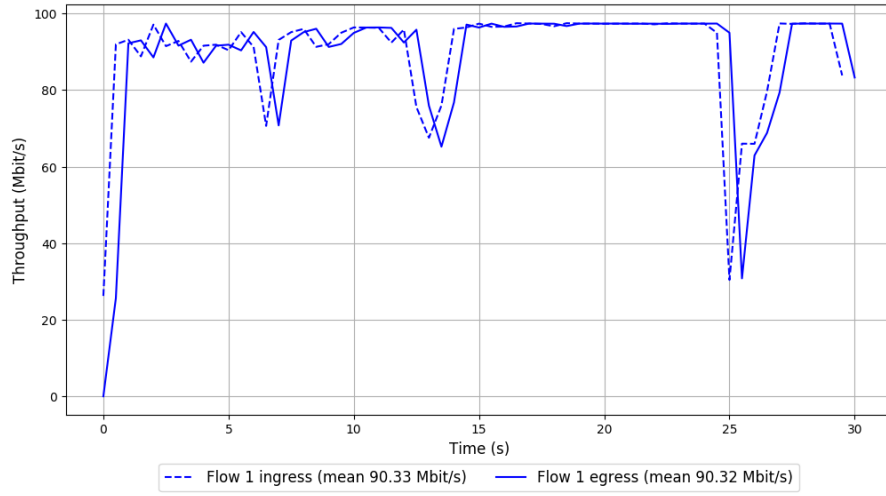
-- Flow 1:

Average throughput: 90.32 Mbit/s

95th percentile per-packet one-way delay: 7.648 ms

Loss rate: 0.02%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-12-11 11:17:16

End at: 2019-12-11 11:17:46

Local clock offset: -6.86 ms

Remote clock offset: 0.169 ms

Below is generated by plot.py at 2019-12-11 13:15:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.67 Mbit/s

95th percentile per-packet one-way delay: 8.139 ms

Loss rate: 0.02%

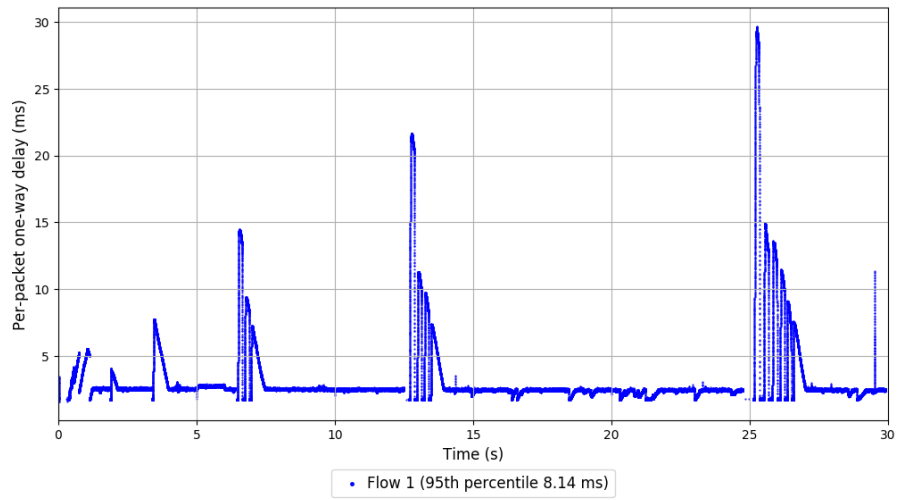
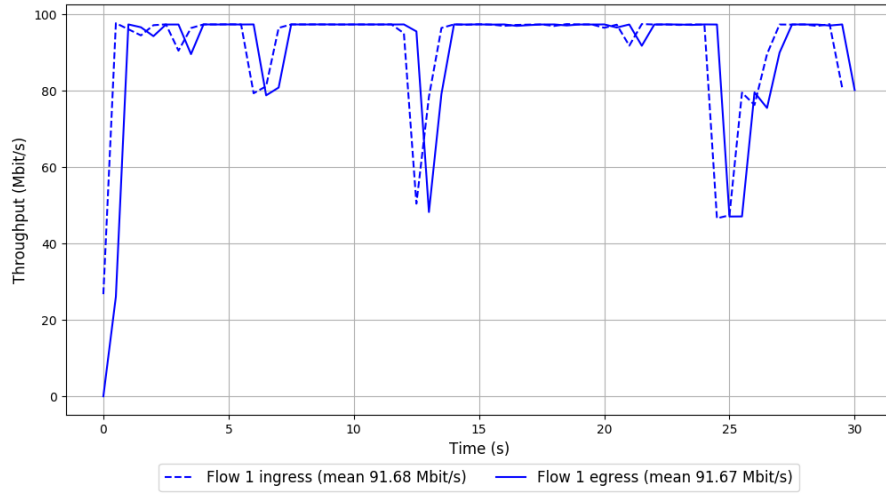
-- Flow 1:

Average throughput: 91.67 Mbit/s

95th percentile per-packet one-way delay: 8.139 ms

Loss rate: 0.02%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-12-11 11:44:21

End at: 2019-12-11 11:44:51

Local clock offset: -6.74 ms

Remote clock offset: 0.385 ms

Below is generated by plot.py at 2019-12-11 13:15:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.79 Mbit/s

95th percentile per-packet one-way delay: 6.545 ms

Loss rate: 0.02%

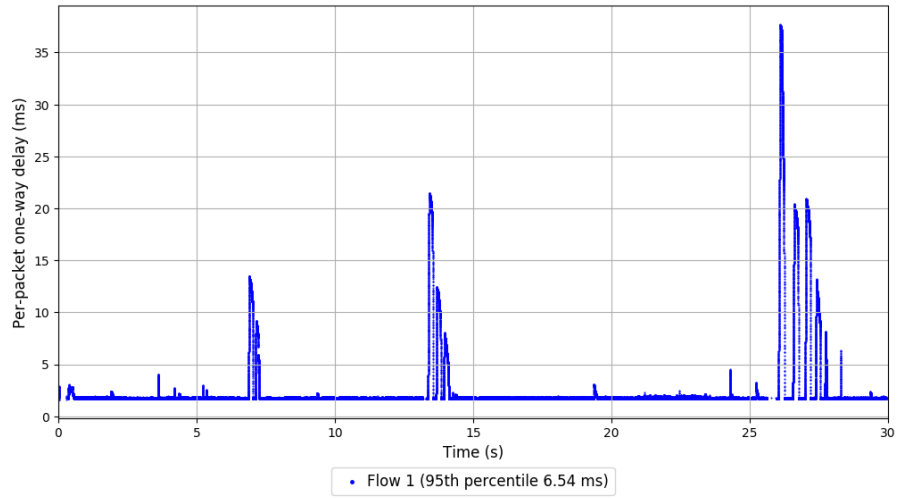
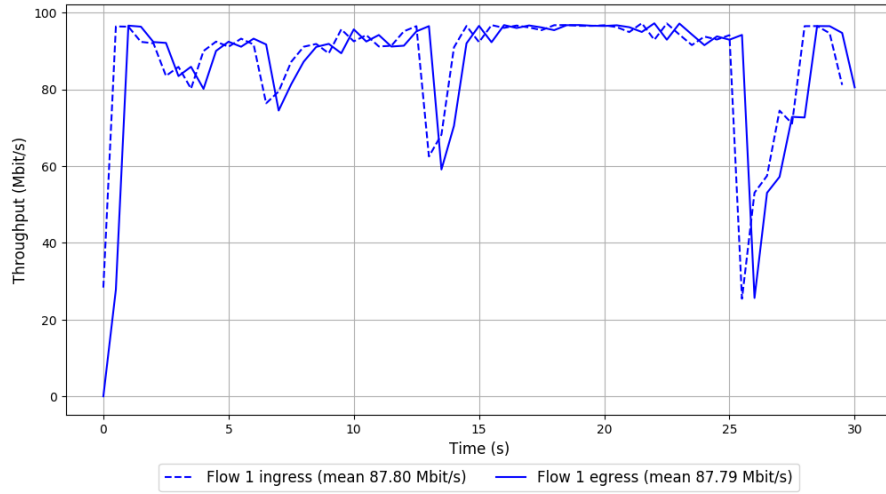
-- Flow 1:

Average throughput: 87.79 Mbit/s

95th percentile per-packet one-way delay: 6.545 ms

Loss rate: 0.02%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-12-11 12:11:19

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

Local clock offset: -6.129 ms

Remote clock offset: 0.605 ms

Below is generated by plot.py at 2019-12-11 13:15:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.47 Mbit/s

95th percentile per-packet one-way delay: 7.853 ms

Loss rate: 0.02%

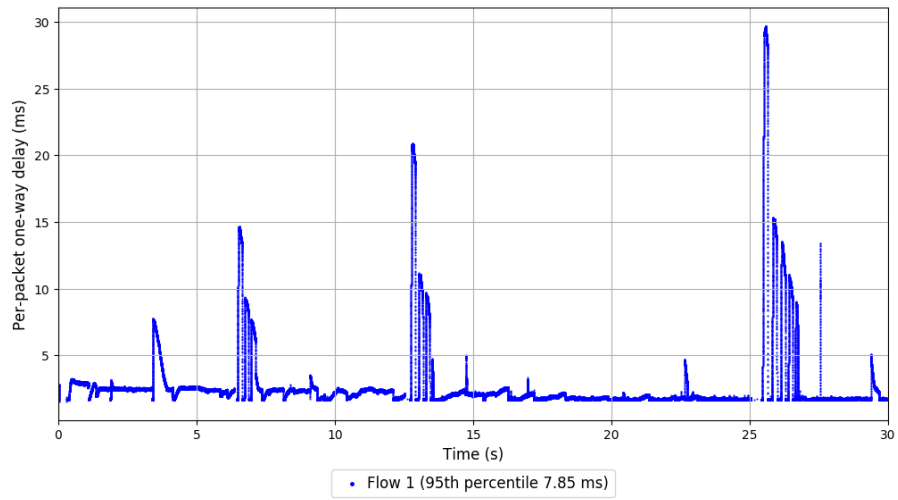
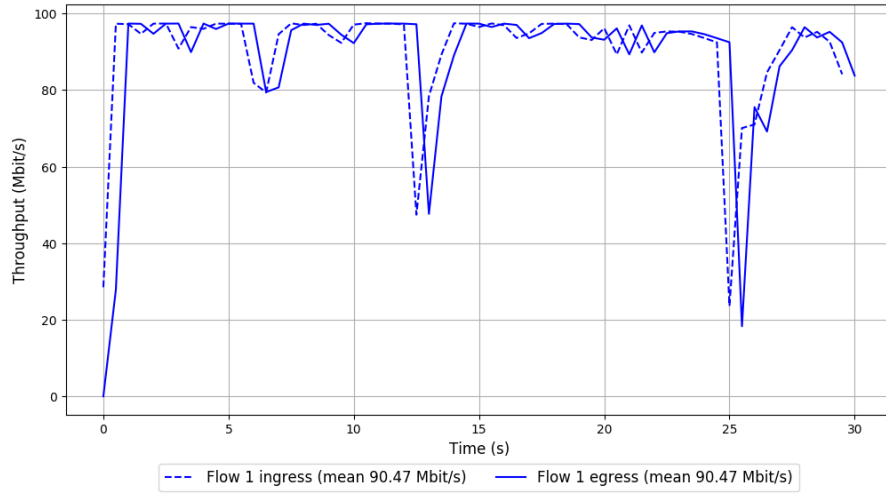
-- Flow 1:

Average throughput: 90.47 Mbit/s

95th percentile per-packet one-way delay: 7.853 ms

Loss rate: 0.02%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-12-11 12:38:17

End at: 2019-12-11 12:38:47

Local clock offset: -5.353 ms

Remote clock offset: 0.738 ms

Below is generated by plot.py at 2019-12-11 13:15:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.79 Mbit/s

95th percentile per-packet one-way delay: 7.886 ms

Loss rate: 0.02%

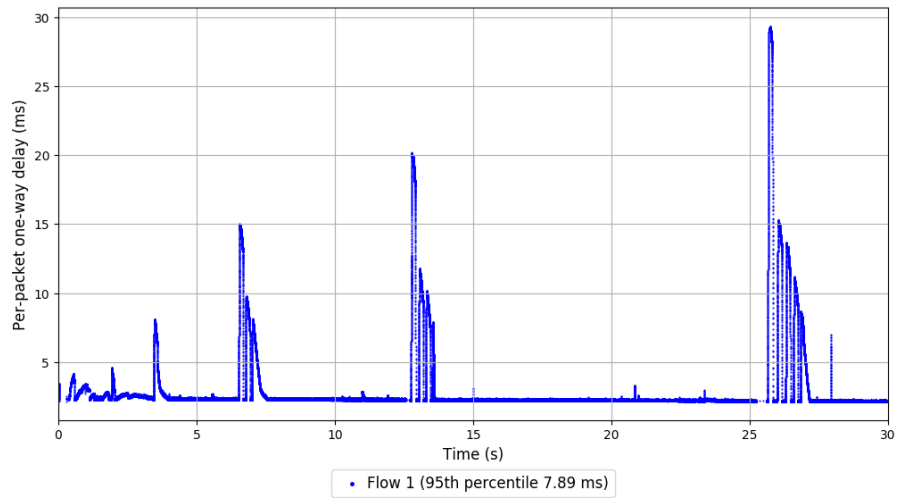
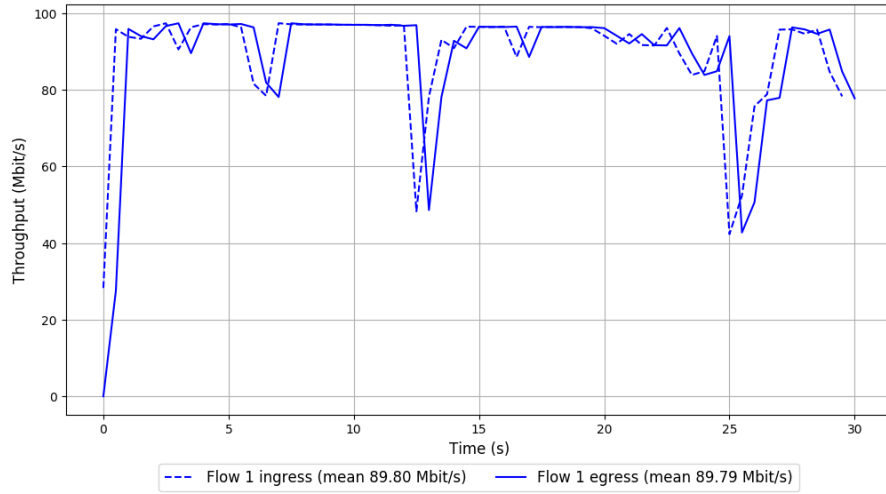
-- Flow 1:

Average throughput: 89.79 Mbit/s

95th percentile per-packet one-way delay: 7.886 ms

Loss rate: 0.02%

Run 5: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2019-12-11 11:11:42

End at: 2019-12-11 11:12:12

Local clock offset: -5.679 ms

Remote clock offset: 0.051 ms

Below is generated by plot.py at 2019-12-11 13:15:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.599 ms

Loss rate: 0.13%

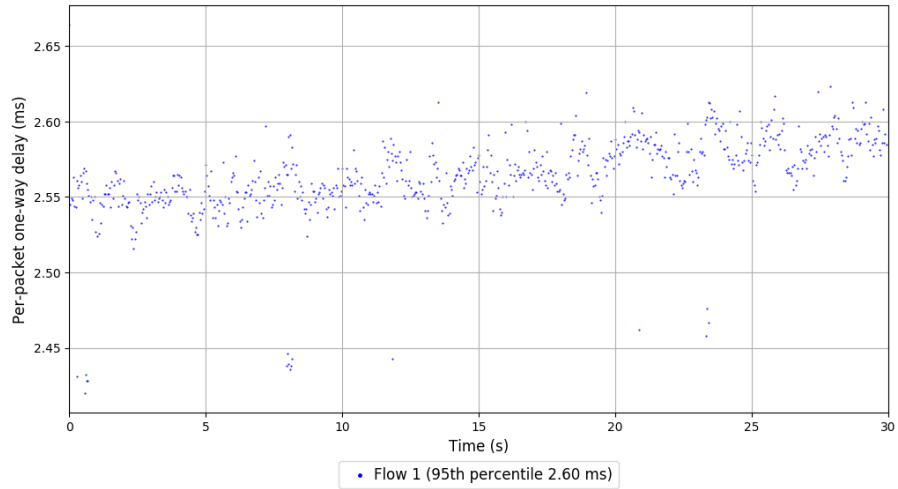
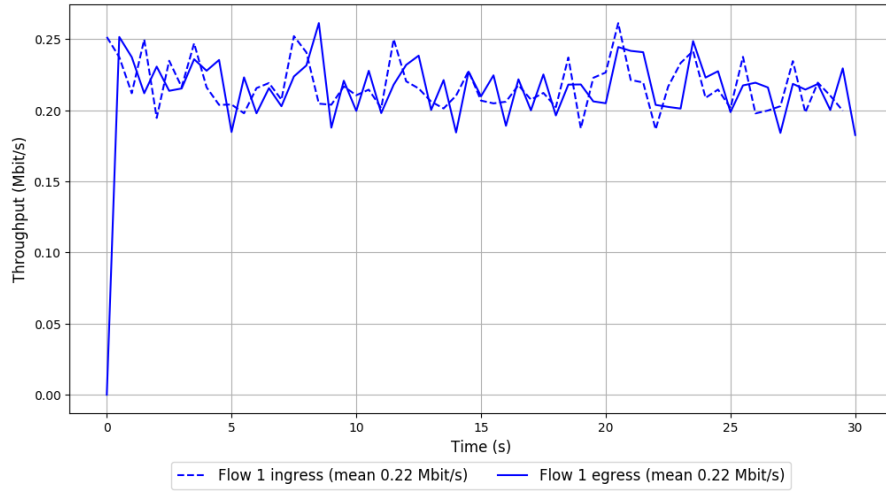
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.599 ms

Loss rate: 0.13%

Run 1: Report of SCReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-12-11 11:38:47

End at: 2019-12-11 11:39:17

Local clock offset: -6.684 ms

Remote clock offset: 0.401 ms

Below is generated by plot.py at 2019-12-11 13:15:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.321 ms

Loss rate: 0.00%

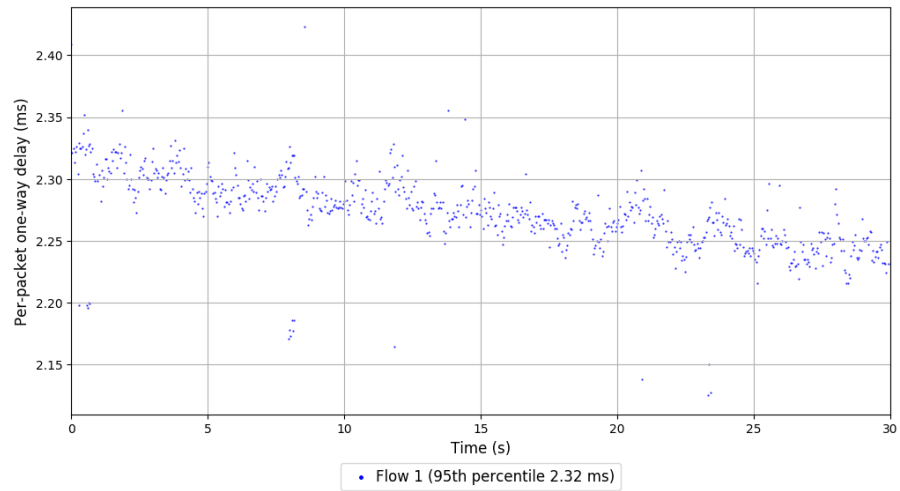
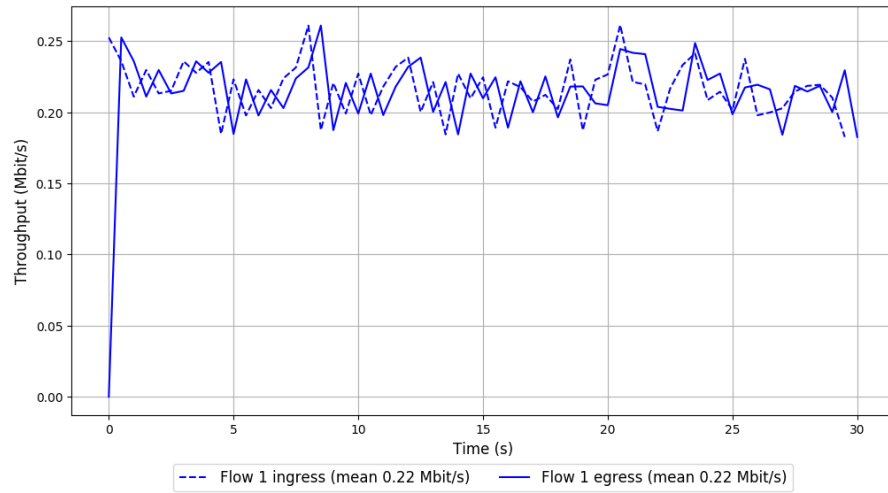
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.321 ms

Loss rate: 0.00%

Run 2: Report of SCReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-12-11 12:05:46

End at: 2019-12-11 12:06:16

Local clock offset: -5.448 ms

Remote clock offset: 0.531 ms

Below is generated by plot.py at 2019-12-11 13:15:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 2.409 ms

Loss rate: 0.29%

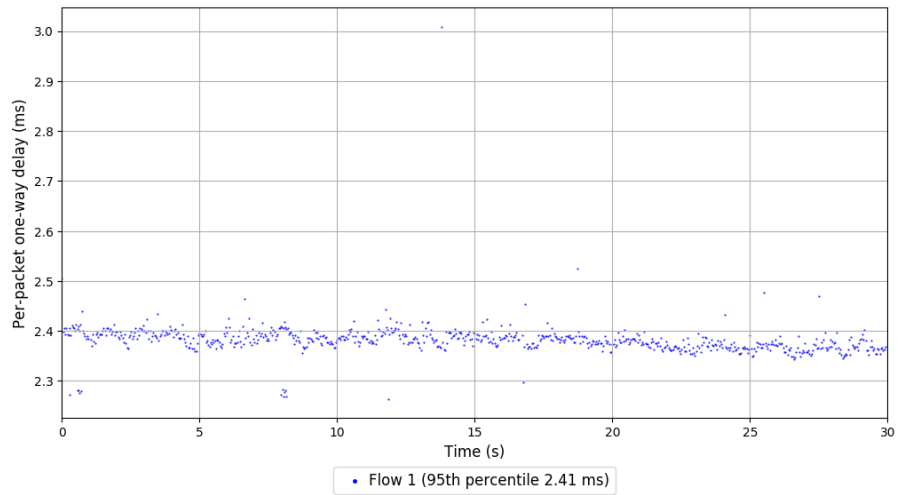
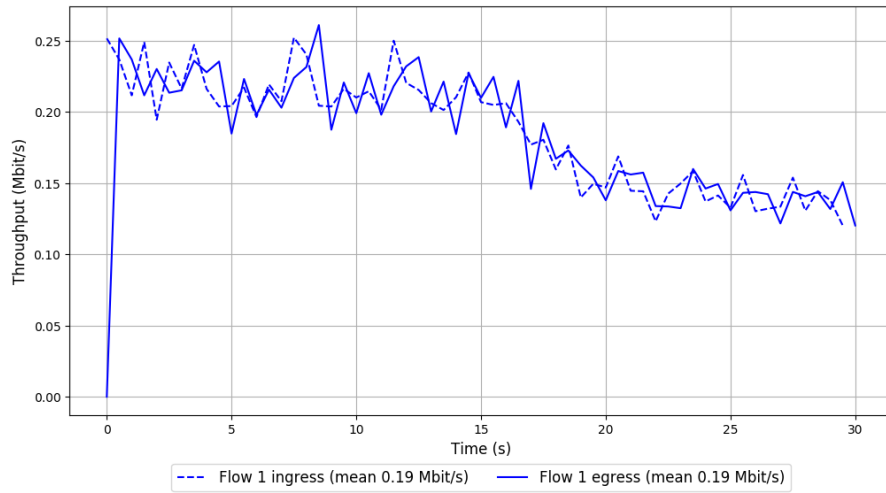
-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 2.409 ms

Loss rate: 0.29%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-12-11 12:32:43

End at: 2019-12-11 12:33:13

Local clock offset: -5.365 ms

Remote clock offset: 0.697 ms

Below is generated by plot.py at 2019-12-11 13:15:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.451 ms

Loss rate: 0.00%

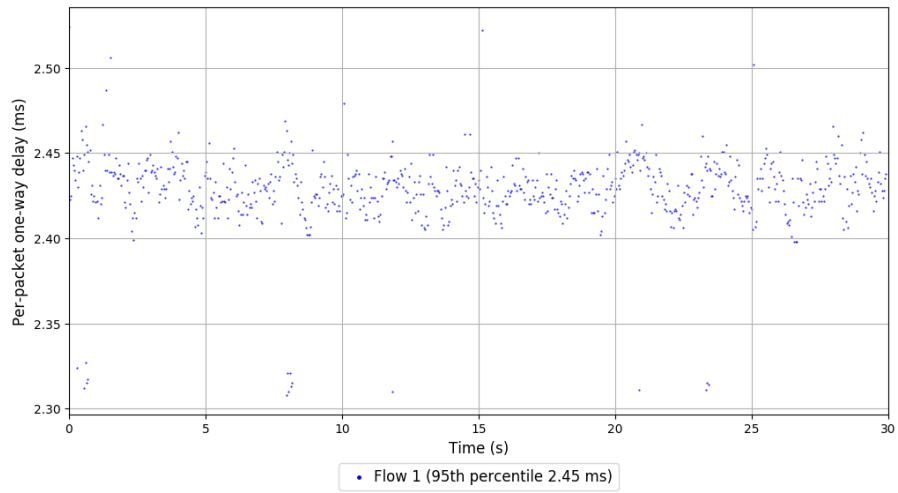
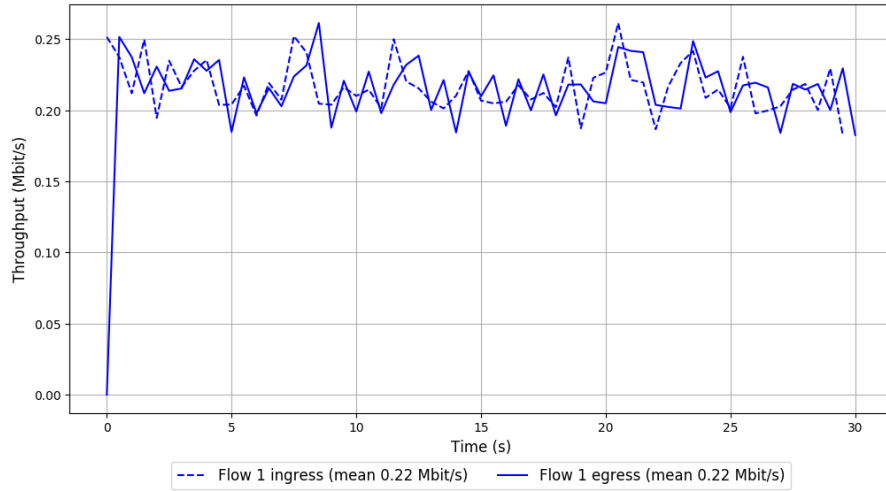
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.451 ms

Loss rate: 0.00%

Run 4: Report of SCReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-12-11 12:59:43

End at: 2019-12-11 13:00:13

Local clock offset: -2.221 ms

Remote clock offset: 0.609 ms

Below is generated by plot.py at 2019-12-11 13:15:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.400 ms

Loss rate: 0.00%

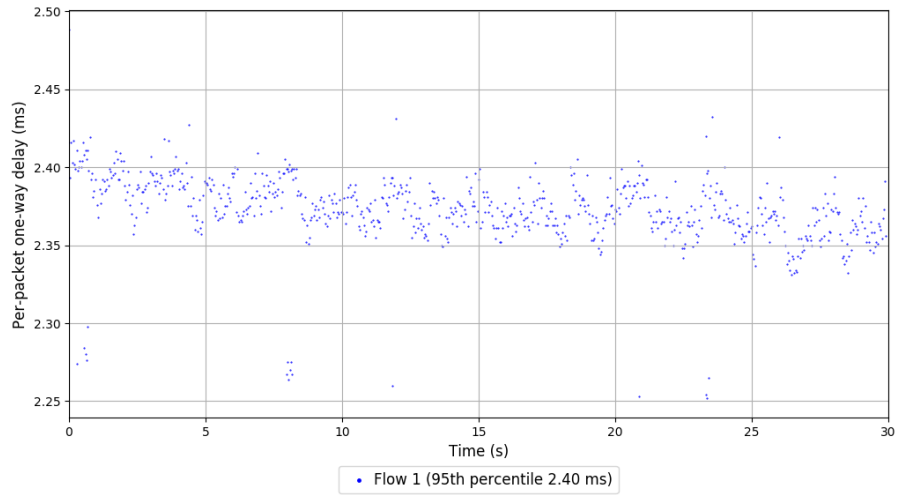
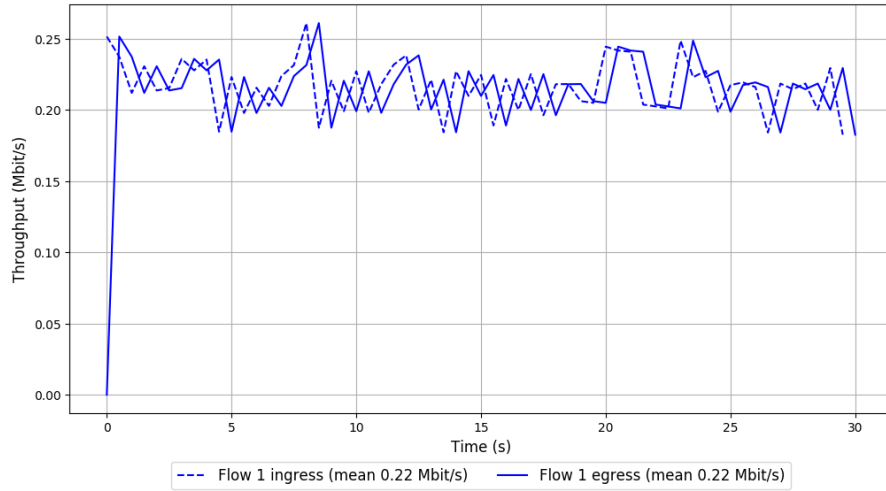
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.400 ms

Loss rate: 0.00%

Run 5: Report of SCReAM — Data Link

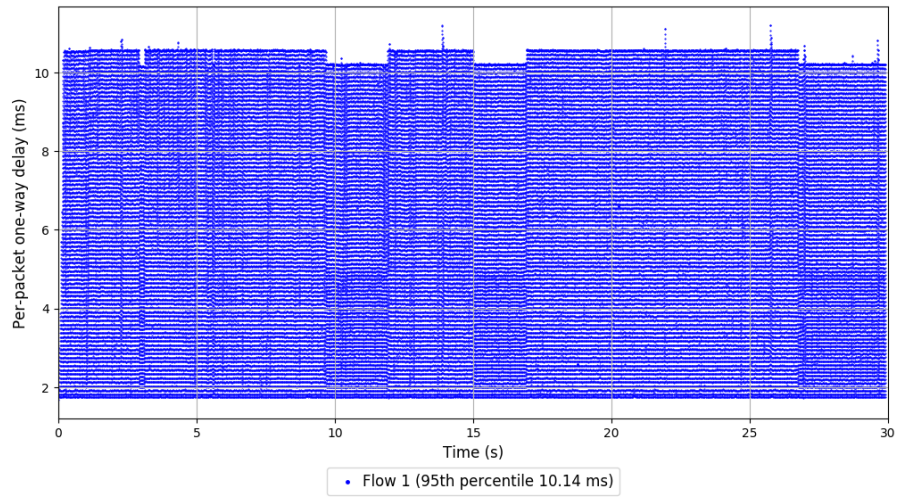
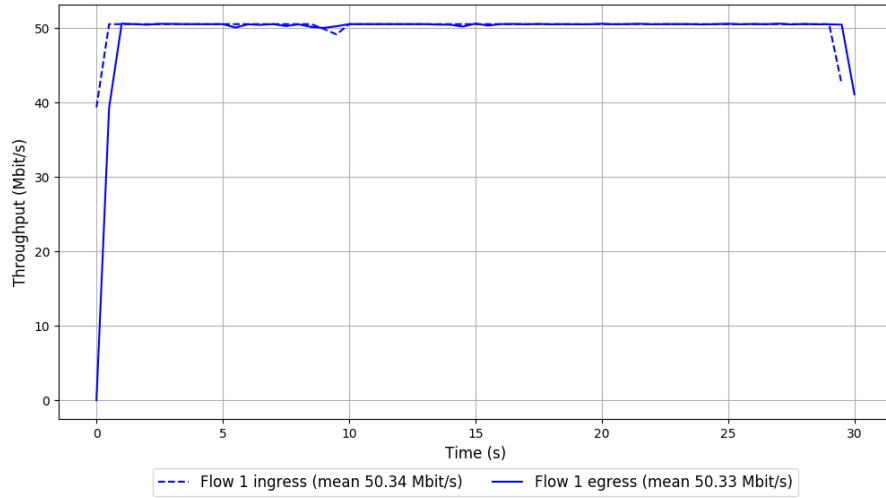


Run 1: Statistics of Sprout

Start at: 2019-12-11 10:57:08
End at: 2019-12-11 10:57:38
Local clock offset: -6.066 ms
Remote clock offset: -0.067 ms

Below is generated by plot.py at 2019-12-11 13:15:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.33 Mbit/s
95th percentile per-packet one-way delay: 10.144 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 50.33 Mbit/s
95th percentile per-packet one-way delay: 10.144 ms
Loss rate: 0.07%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-12-11 11:24:10

End at: 2019-12-11 11:24:40

Local clock offset: -6.445 ms

Remote clock offset: 0.124 ms

Below is generated by plot.py at 2019-12-11 13:15:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.18 Mbit/s

95th percentile per-packet one-way delay: 10.925 ms

Loss rate: 0.00%

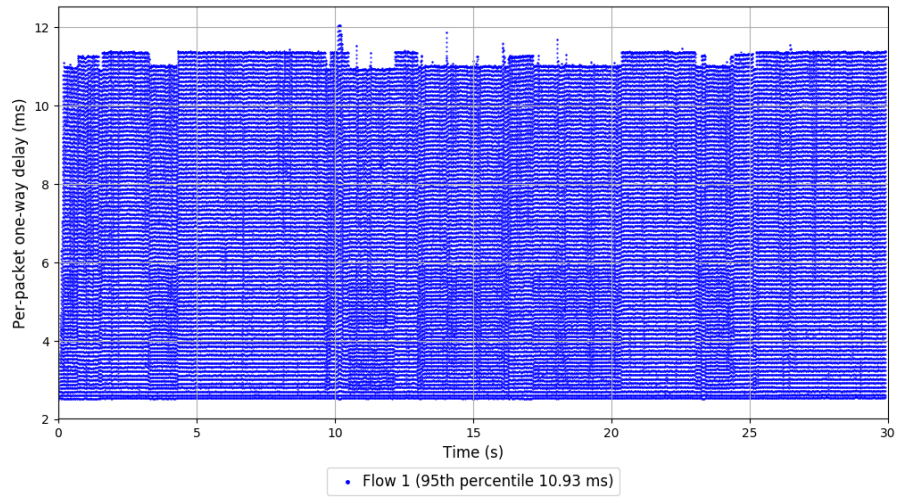
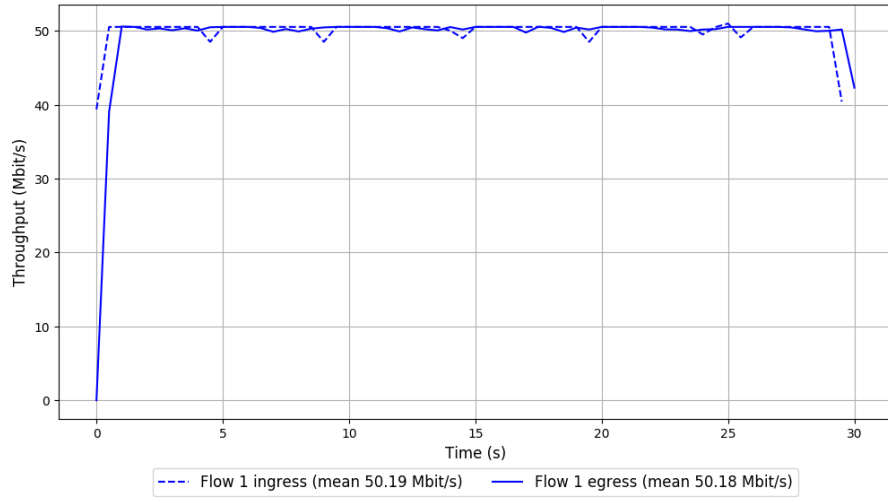
-- Flow 1:

Average throughput: 50.18 Mbit/s

95th percentile per-packet one-way delay: 10.925 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-12-11 11:51:11

End at: 2019-12-11 11:51:41

Local clock offset: -6.424 ms

Remote clock offset: 0.404 ms

Below is generated by plot.py at 2019-12-11 13:15:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.29 Mbit/s

95th percentile per-packet one-way delay: 10.185 ms

Loss rate: 0.07%

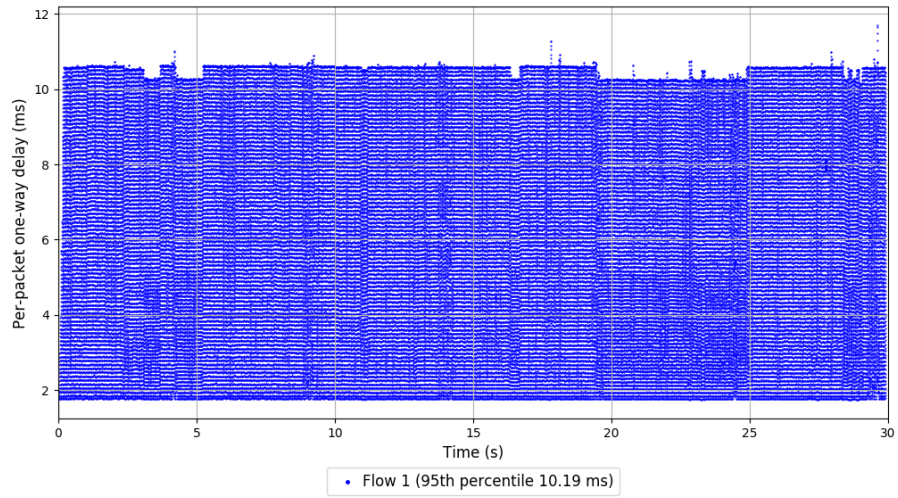
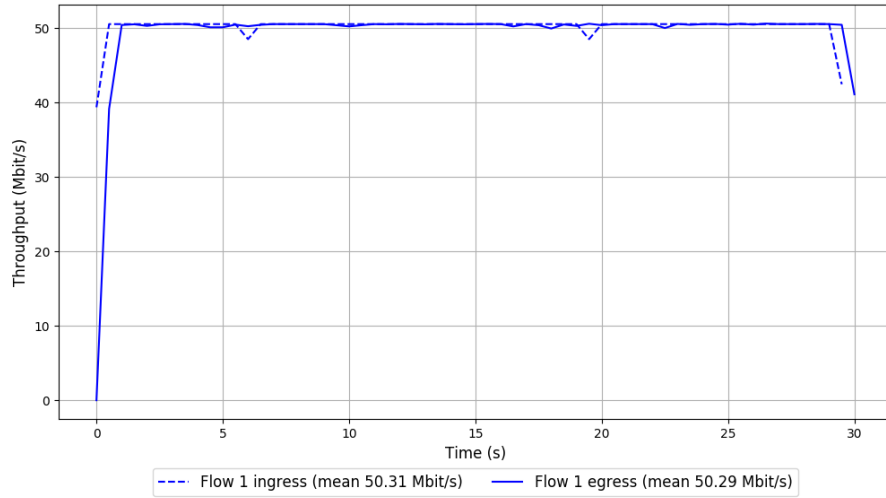
-- Flow 1:

Average throughput: 50.29 Mbit/s

95th percentile per-packet one-way delay: 10.185 ms

Loss rate: 0.07%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

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

End at: 2019-12-11 12:18:39

Local clock offset: -6.068 ms

Remote clock offset: 0.639 ms

Below is generated by plot.py at 2019-12-11 13:15:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.25 Mbit/s

95th percentile per-packet one-way delay: 10.186 ms

Loss rate: 0.00%

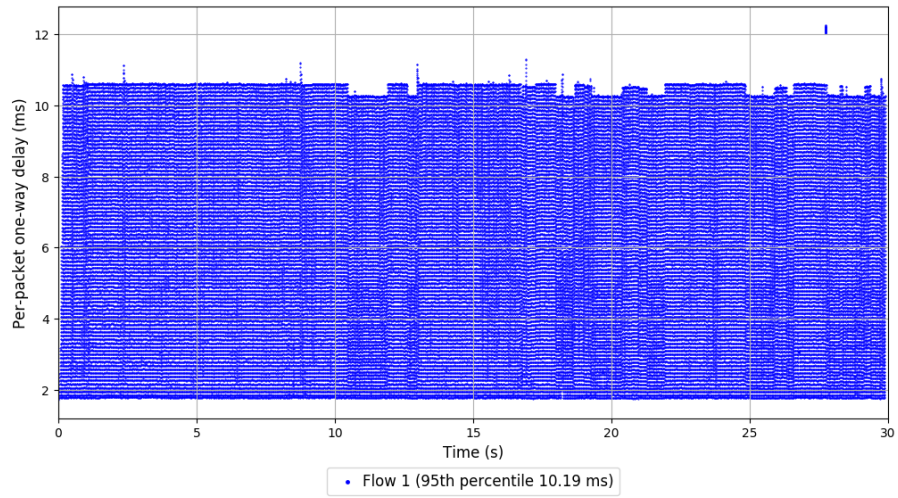
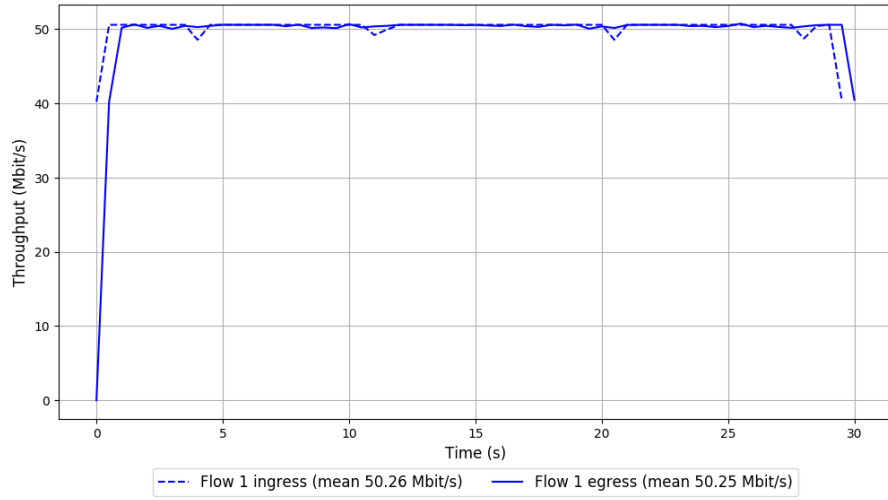
-- Flow 1:

Average throughput: 50.25 Mbit/s

95th percentile per-packet one-way delay: 10.186 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

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

End at: 2019-12-11 12:45:37

Local clock offset: -4.443 ms

Remote clock offset: 0.681 ms

Below is generated by plot.py at 2019-12-11 13:15:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.81 Mbit/s

95th percentile per-packet one-way delay: 10.102 ms

Loss rate: 0.06%

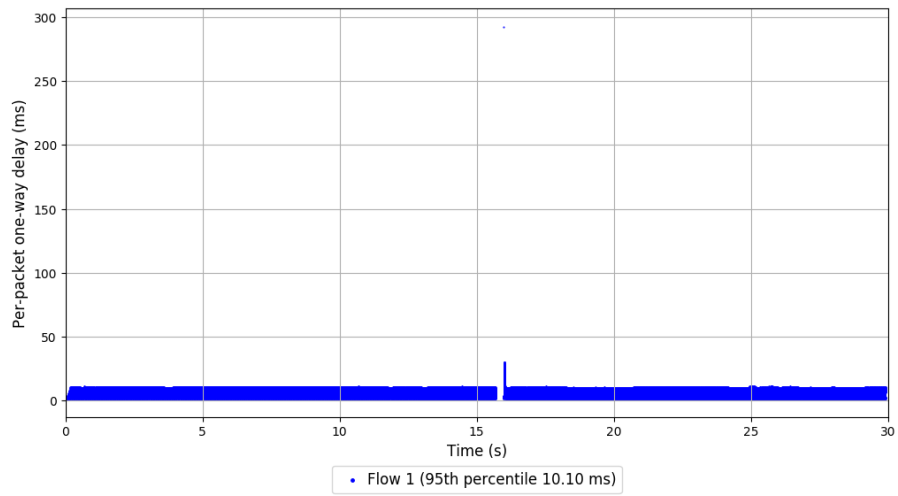
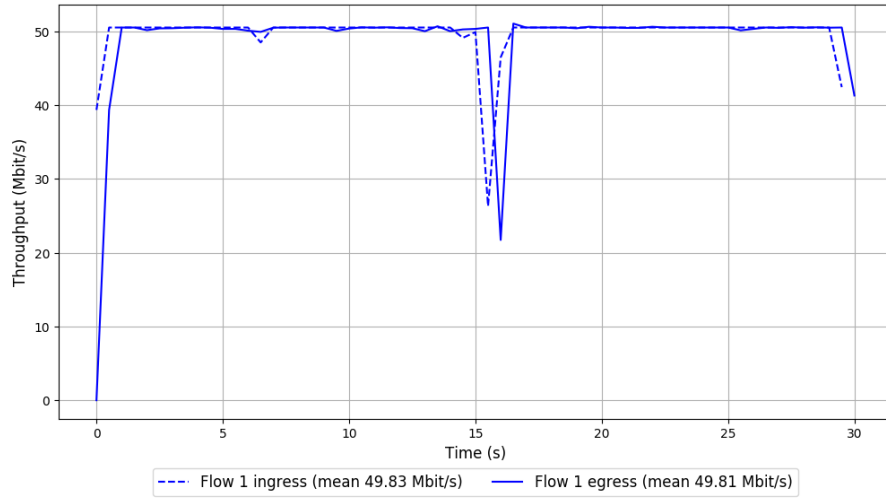
-- Flow 1:

Average throughput: 49.81 Mbit/s

95th percentile per-packet one-way delay: 10.102 ms

Loss rate: 0.06%

Run 5: Report of Sprout — Data Link

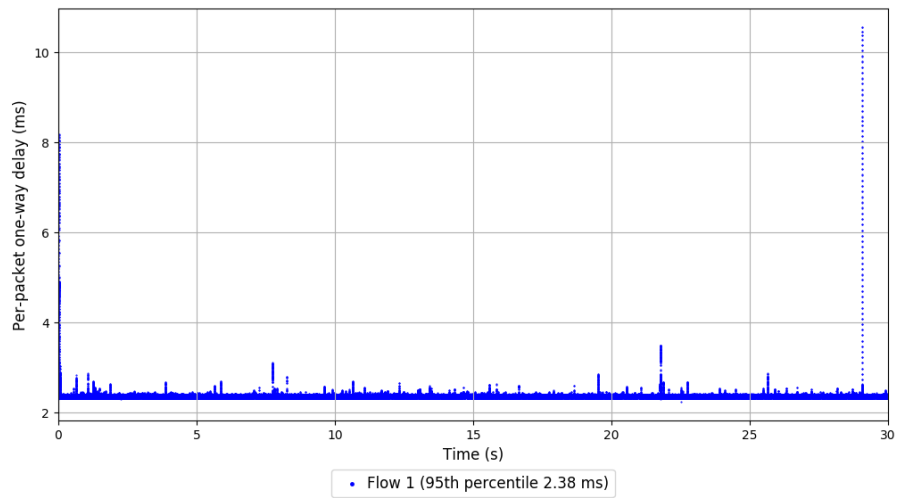
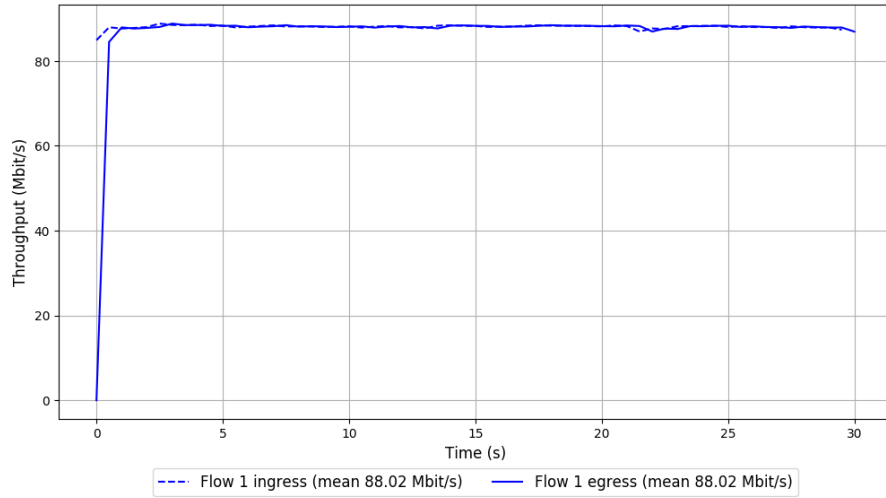


Run 1: Statistics of TaoVA-100x

Start at: 2019-12-11 11:01:35
End at: 2019-12-11 11:02:05
Local clock offset: -5.406 ms
Remote clock offset: -0.005 ms

Below is generated by plot.py at 2019-12-11 13:16:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.02 Mbit/s
95th percentile per-packet one-way delay: 2.385 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 88.02 Mbit/s
95th percentile per-packet one-way delay: 2.385 ms
Loss rate: 0.02%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-12-11 11:28:36

End at: 2019-12-11 11:29:06

Local clock offset: -6.583 ms

Remote clock offset: 0.256 ms

Below is generated by plot.py at 2019-12-11 13:16:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.34 Mbit/s

95th percentile per-packet one-way delay: 2.406 ms

Loss rate: 0.02%

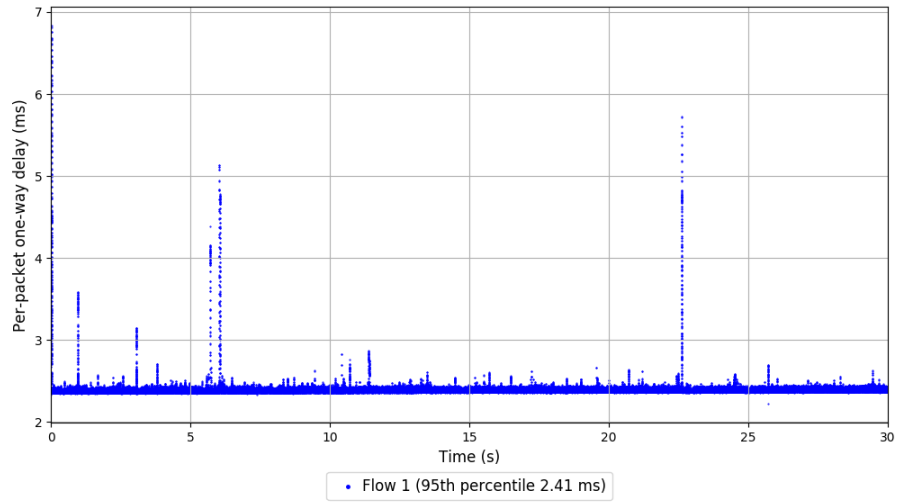
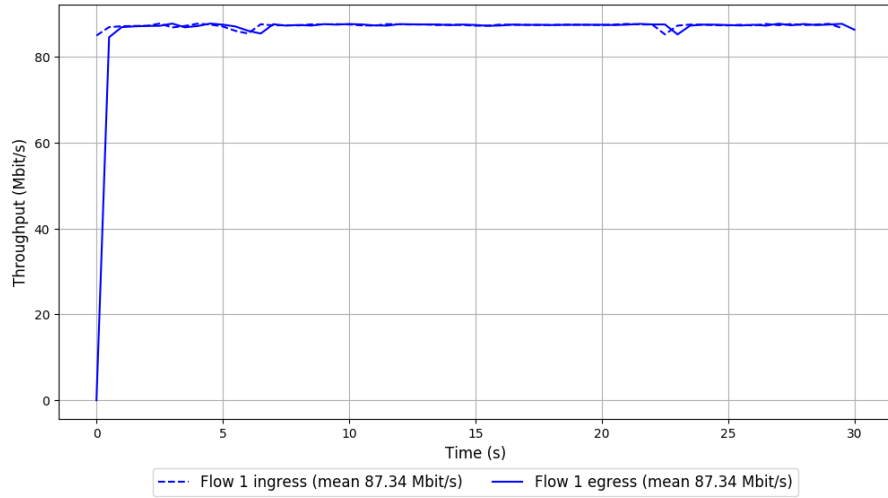
-- Flow 1:

Average throughput: 87.34 Mbit/s

95th percentile per-packet one-way delay: 2.406 ms

Loss rate: 0.02%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-12-11 11:55:38

End at: 2019-12-11 11:56:08

Local clock offset: -6.227 ms

Remote clock offset: 0.459 ms

Below is generated by plot.py at 2019-12-11 13:16:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.99 Mbit/s

95th percentile per-packet one-way delay: 1.801 ms

Loss rate: 0.02%

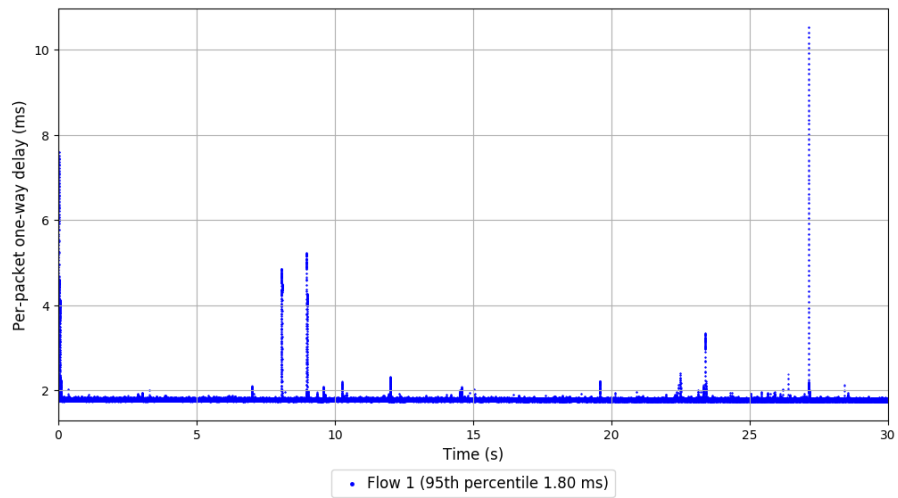
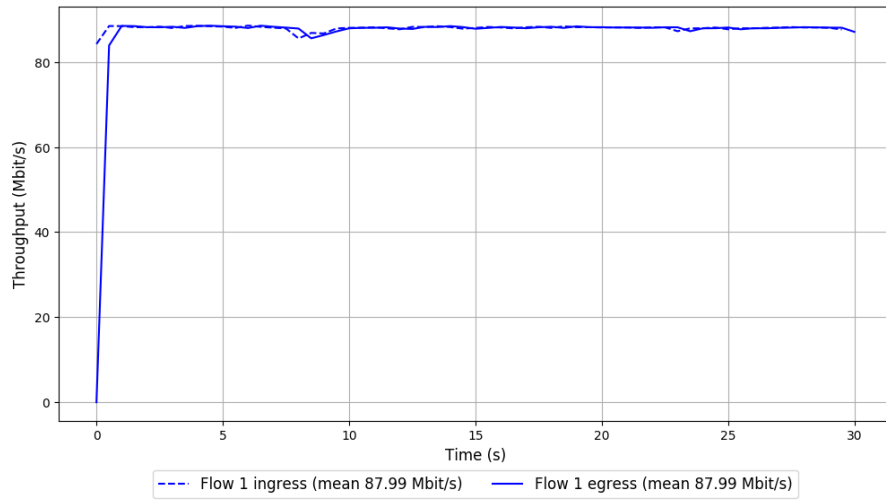
-- Flow 1:

Average throughput: 87.99 Mbit/s

95th percentile per-packet one-way delay: 1.801 ms

Loss rate: 0.02%

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



Run 4: Statistics of TaoVA-100x

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

End at: 2019-12-11 12:23:04

Local clock offset: -5.374 ms

Remote clock offset: 0.647 ms

Below is generated by plot.py at 2019-12-11 13:17:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.66 Mbit/s

95th percentile per-packet one-way delay: 2.509 ms

Loss rate: 0.01%

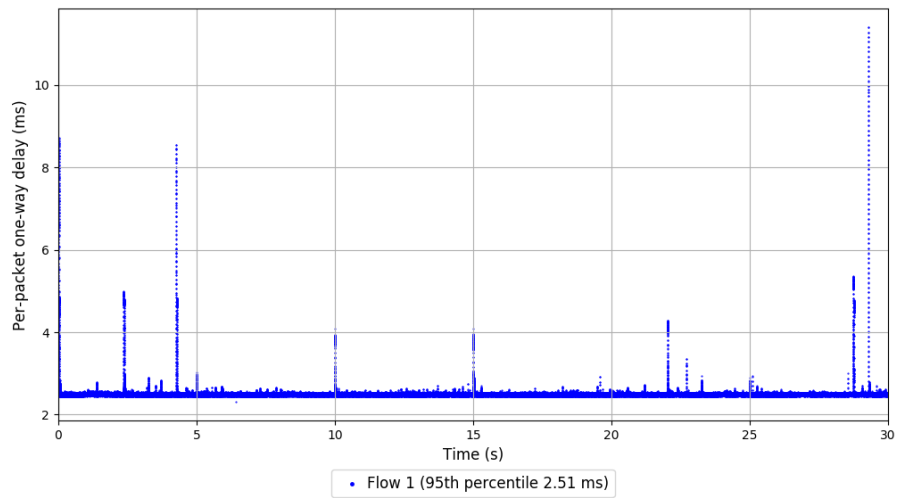
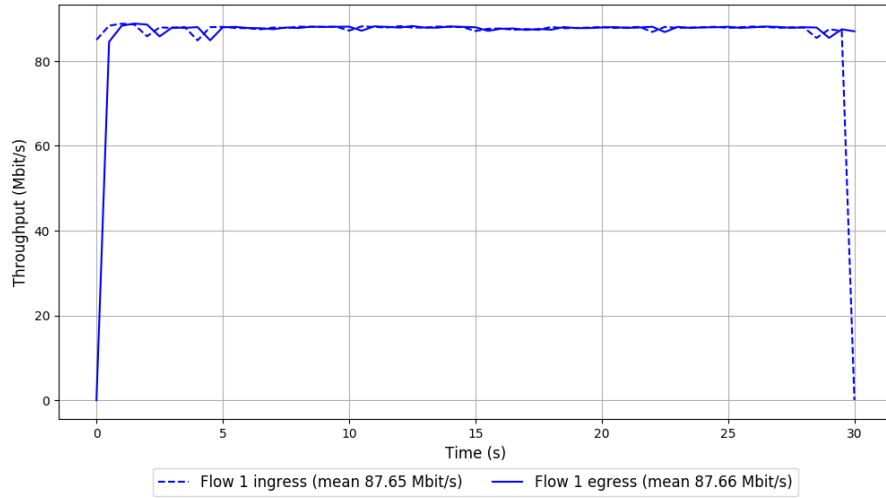
-- Flow 1:

Average throughput: 87.66 Mbit/s

95th percentile per-packet one-way delay: 2.509 ms

Loss rate: 0.01%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-12-11 12:49:34

End at: 2019-12-11 12:50:04

Local clock offset: -3.78 ms

Remote clock offset: 0.711 ms

Below is generated by plot.py at 2019-12-11 13:17:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.20 Mbit/s

95th percentile per-packet one-way delay: 1.662 ms

Loss rate: 0.02%

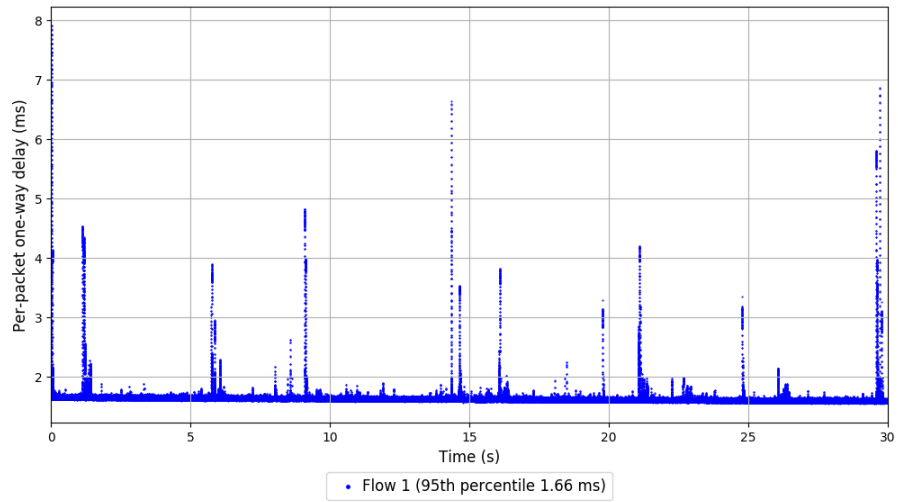
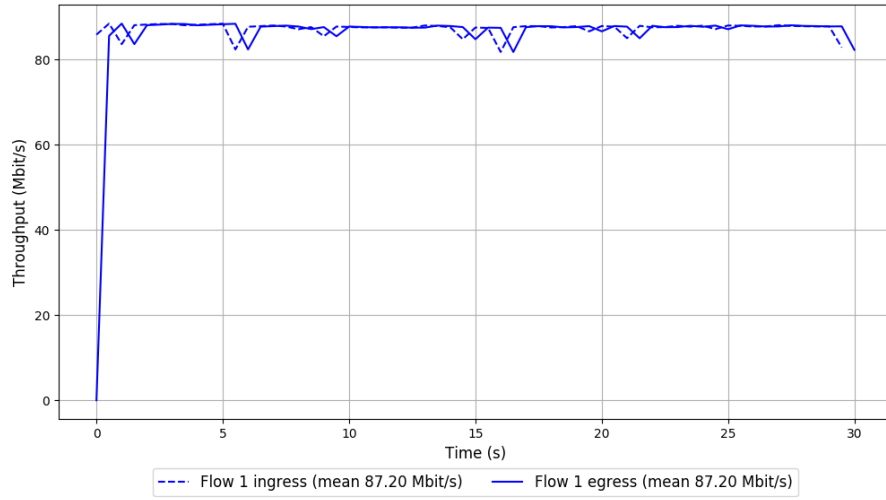
-- Flow 1:

Average throughput: 87.20 Mbit/s

95th percentile per-packet one-way delay: 1.662 ms

Loss rate: 0.02%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-12-11 10:54:50
End at: 2019-12-11 10:55:20
Local clock offset: -5.367 ms
Remote clock offset: -0.045 ms

Below is generated by plot.py at 2019-12-11 13:17:00

Datalink statistics

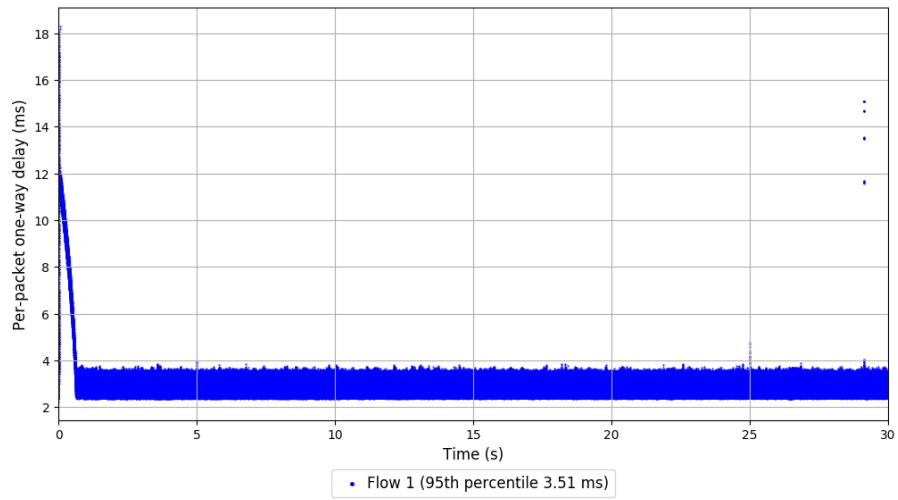
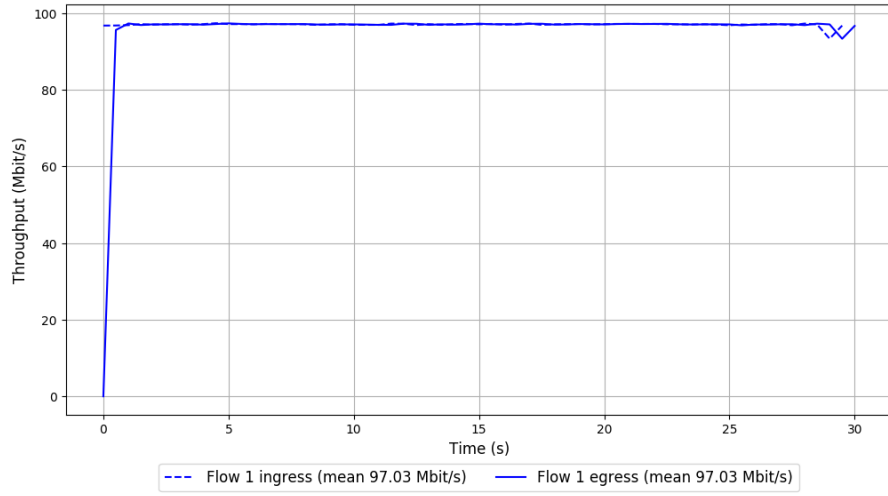
-- Total of 1 flow:

Average throughput: 97.03 Mbit/s
95th percentile per-packet one-way delay: 3.506 ms
Loss rate: 0.01%

-- Flow 1:

Average throughput: 97.03 Mbit/s
95th percentile per-packet one-way delay: 3.506 ms
Loss rate: 0.01%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-12-11 11:21:52

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

Local clock offset: -6.995 ms

Remote clock offset: 0.249 ms

Below is generated by plot.py at 2019-12-11 13:17:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 3.032 ms

Loss rate: 0.02%

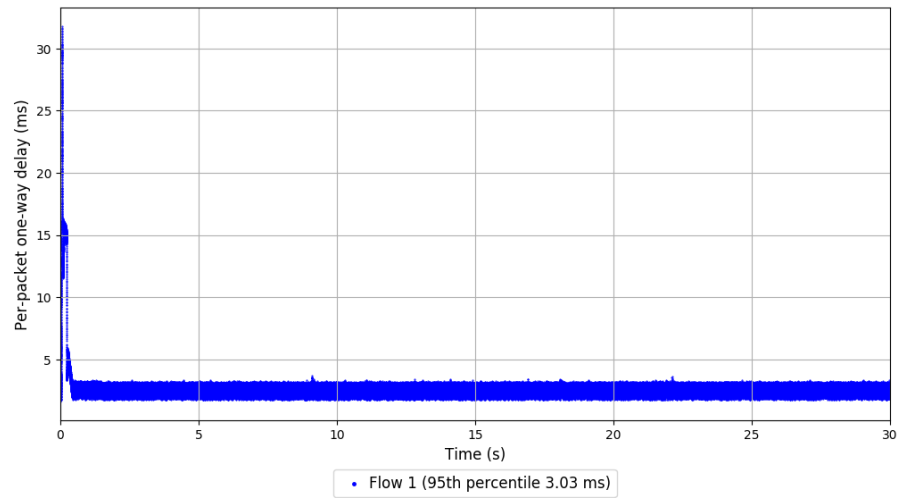
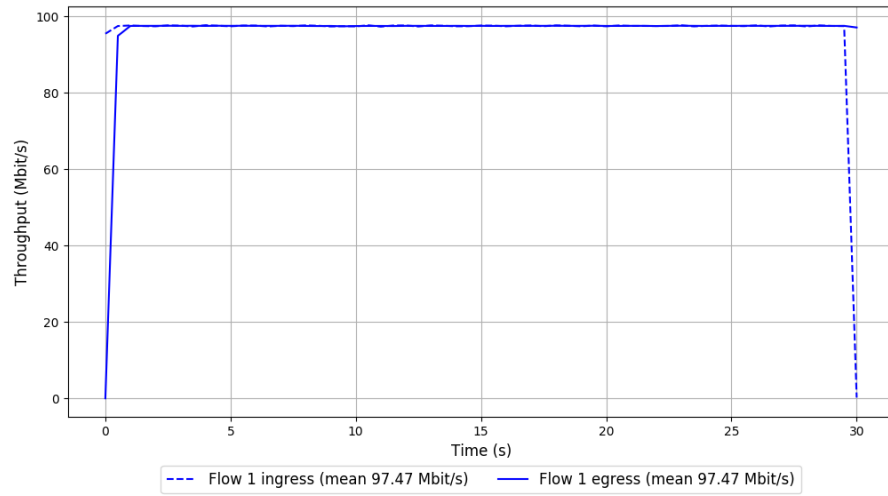
-- Flow 1:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 3.032 ms

Loss rate: 0.02%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

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

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

Local clock offset: -6.456 ms

Remote clock offset: 0.503 ms

Below is generated by plot.py at 2019-12-11 13:17:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.42 Mbit/s

95th percentile per-packet one-way delay: 3.041 ms

Loss rate: 0.02%

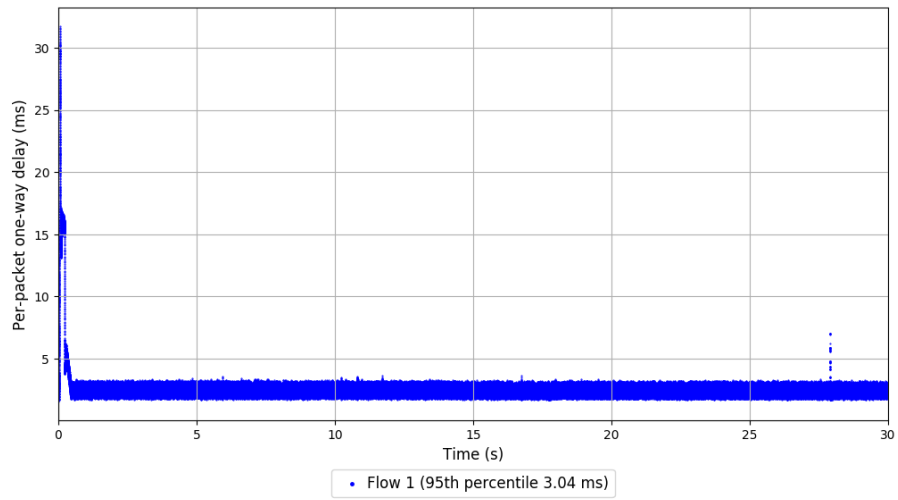
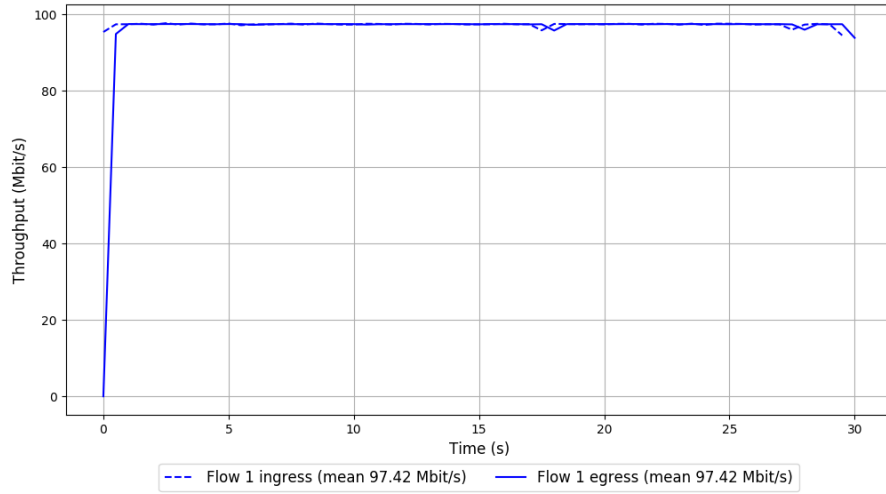
-- Flow 1:

Average throughput: 97.42 Mbit/s

95th percentile per-packet one-way delay: 3.041 ms

Loss rate: 0.02%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-12-11 12:15:51

End at: 2019-12-11 12:16:21

Local clock offset: -5.389 ms

Remote clock offset: 0.665 ms

Below is generated by plot.py at 2019-12-11 13:17:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.23 Mbit/s

95th percentile per-packet one-way delay: 3.721 ms

Loss rate: 0.02%

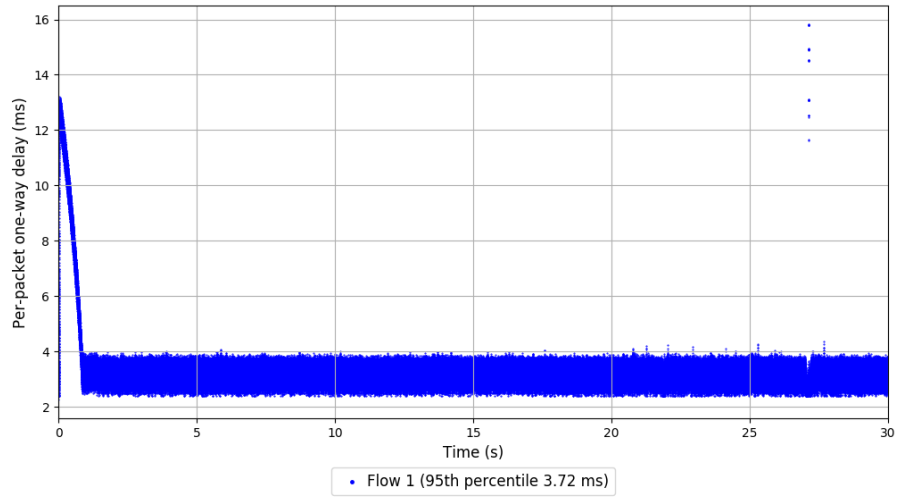
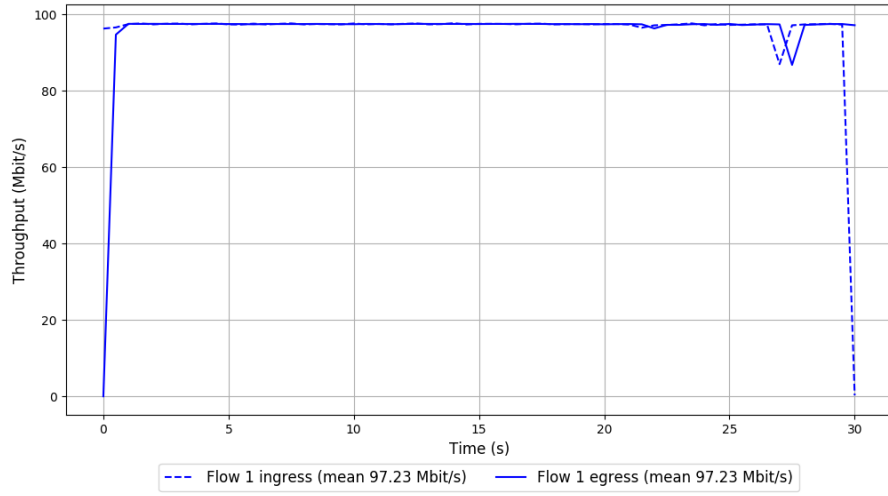
-- Flow 1:

Average throughput: 97.23 Mbit/s

95th percentile per-packet one-way delay: 3.721 ms

Loss rate: 0.02%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-12-11 12:42:49

End at: 2019-12-11 12:43:19

Local clock offset: -4.926 ms

Remote clock offset: 0.63 ms

Below is generated by plot.py at 2019-12-11 13:17:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.21 Mbit/s

95th percentile per-packet one-way delay: 2.906 ms

Loss rate: 0.02%

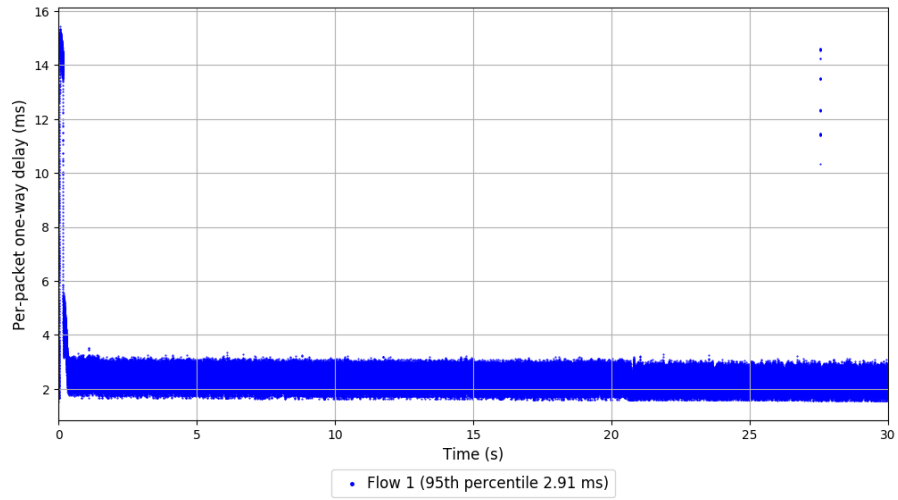
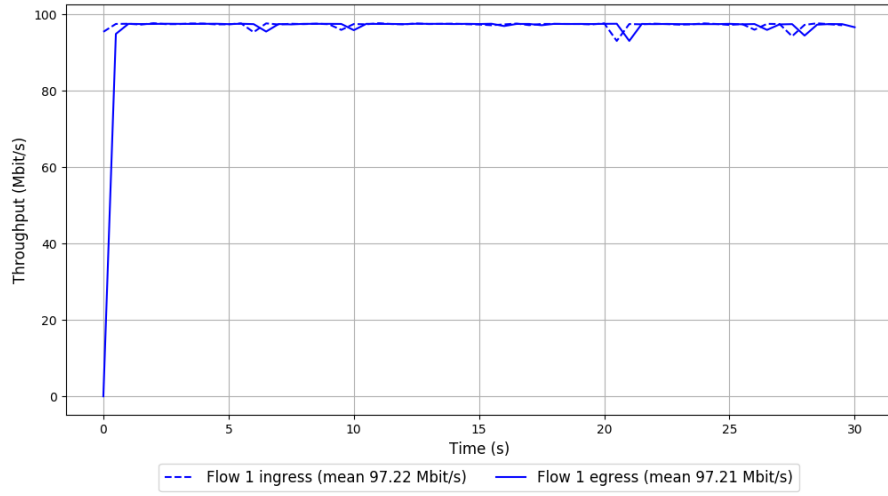
-- Flow 1:

Average throughput: 97.21 Mbit/s

95th percentile per-packet one-way delay: 2.906 ms

Loss rate: 0.02%

Run 5: Report of TCP Vegas — Data Link

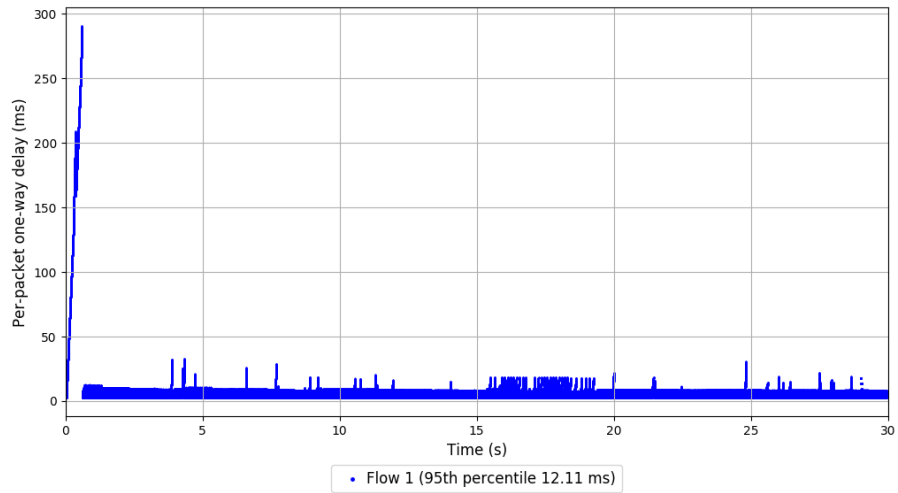
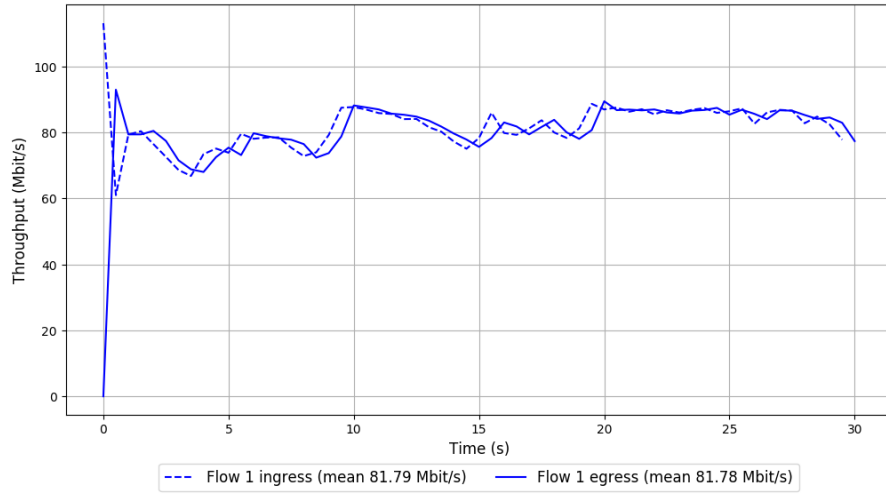


Run 1: Statistics of Verus

Start at: 2019-12-11 10:59:22
End at: 2019-12-11 10:59:52
Local clock offset: -5.346 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2019-12-11 13:17:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 81.78 Mbit/s
95th percentile per-packet one-way delay: 12.108 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 81.78 Mbit/s
95th percentile per-packet one-way delay: 12.108 ms
Loss rate: 0.02%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-12-11 11:26:23

End at: 2019-12-11 11:26:53

Local clock offset: -6.517 ms

Remote clock offset: 0.198 ms

Below is generated by plot.py at 2019-12-11 13:17:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.89 Mbit/s

95th percentile per-packet one-way delay: 11.136 ms

Loss rate: 0.01%

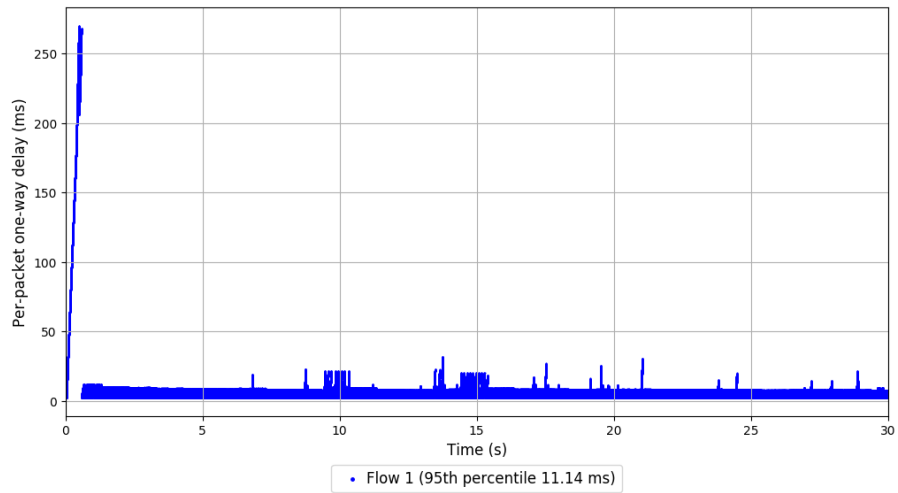
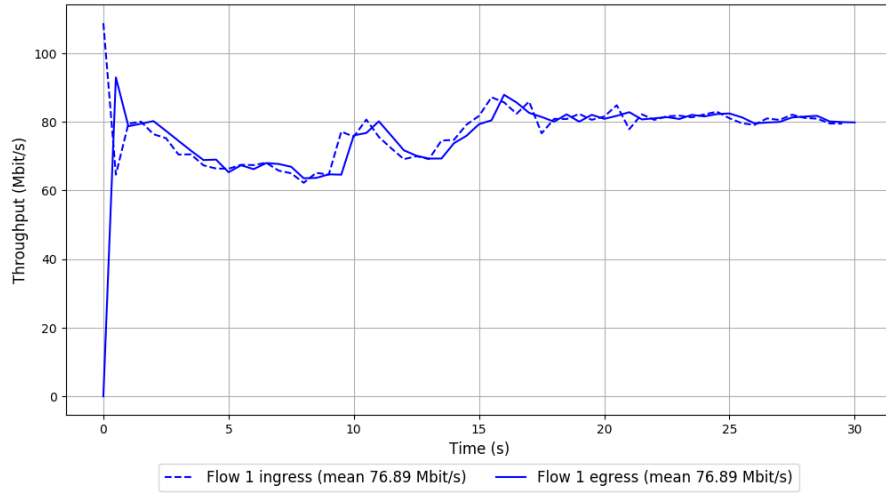
-- Flow 1:

Average throughput: 76.89 Mbit/s

95th percentile per-packet one-way delay: 11.136 ms

Loss rate: 0.01%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-12-11 11:53:25

End at: 2019-12-11 11:53:55

Local clock offset: -5.59 ms

Remote clock offset: 0.496 ms

Below is generated by plot.py at 2019-12-11 13:17:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.11 Mbit/s

95th percentile per-packet one-way delay: 14.183 ms

Loss rate: 0.05%

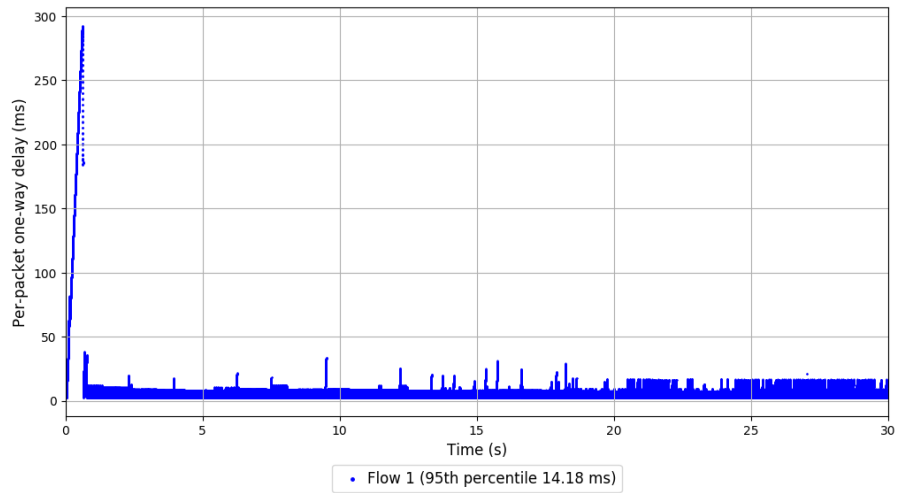
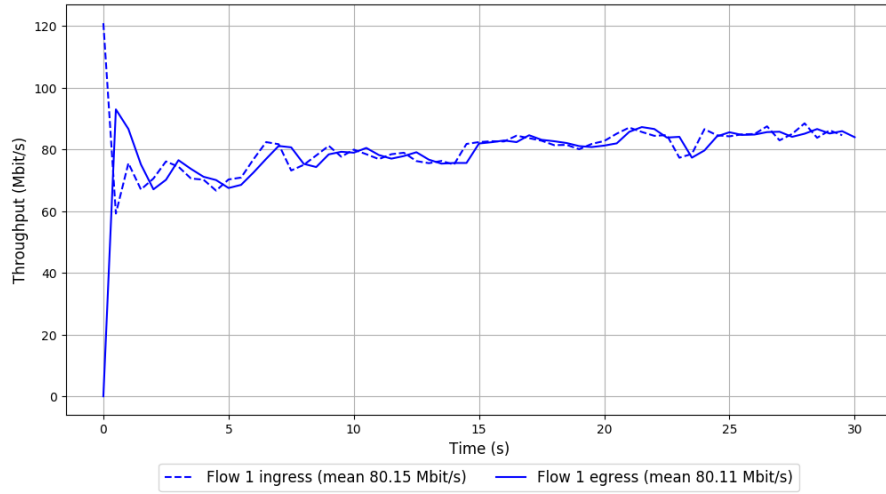
-- Flow 1:

Average throughput: 80.11 Mbit/s

95th percentile per-packet one-way delay: 14.183 ms

Loss rate: 0.05%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-12-11 12:20:23

End at: 2019-12-11 12:20:53

Local clock offset: -6.078 ms

Remote clock offset: 0.658 ms

Below is generated by plot.py at 2019-12-11 13:17:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.70 Mbit/s

95th percentile per-packet one-way delay: 18.377 ms

Loss rate: 0.03%

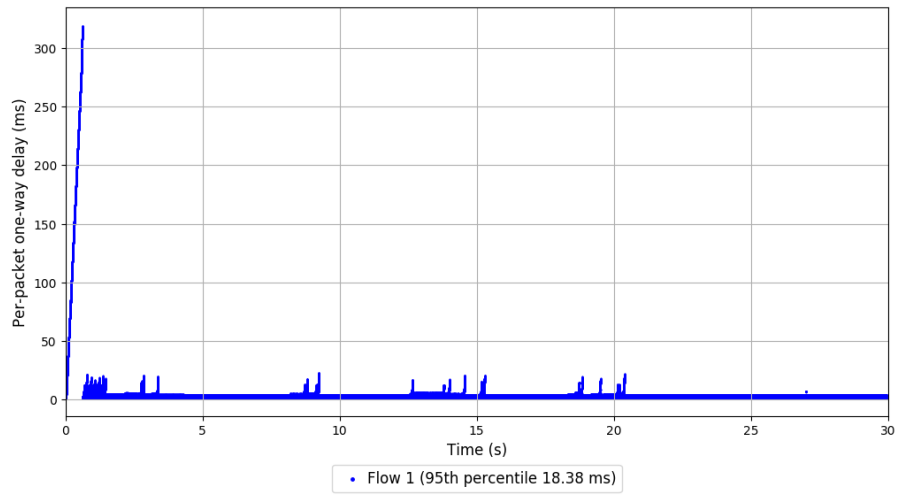
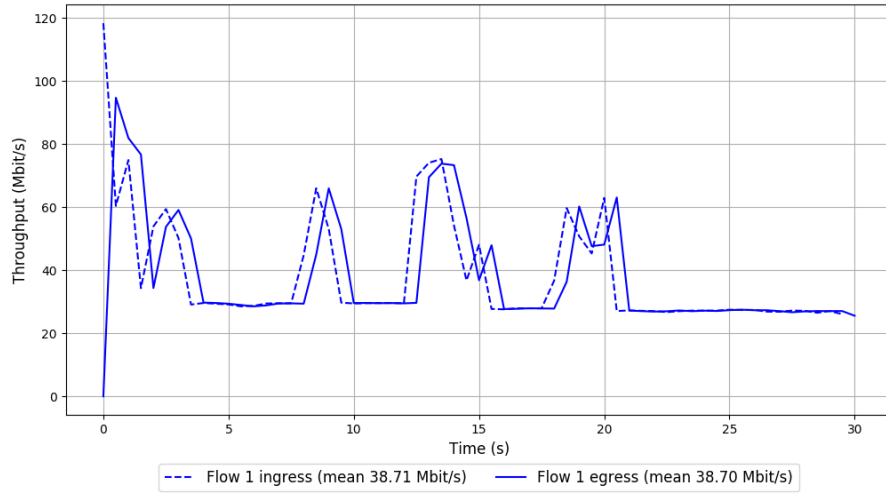
-- Flow 1:

Average throughput: 38.70 Mbit/s

95th percentile per-packet one-way delay: 18.377 ms

Loss rate: 0.03%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-12-11 12:47:21

End at: 2019-12-11 12:47:51

Local clock offset: -4.073 ms

Remote clock offset: 0.722 ms

Below is generated by plot.py at 2019-12-11 13:17:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.62 Mbit/s

95th percentile per-packet one-way delay: 12.510 ms

Loss rate: 0.04%

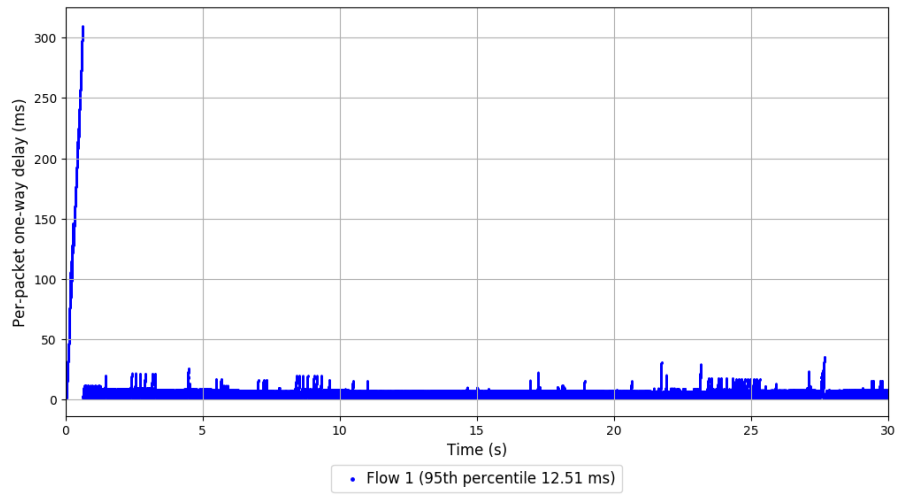
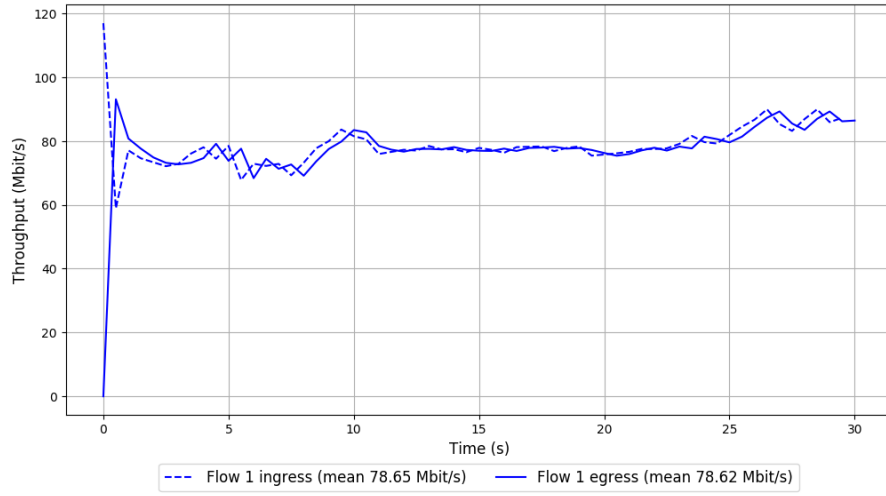
-- Flow 1:

Average throughput: 78.62 Mbit/s

95th percentile per-packet one-way delay: 12.510 ms

Loss rate: 0.04%

Run 5: Report of Verus — Data Link

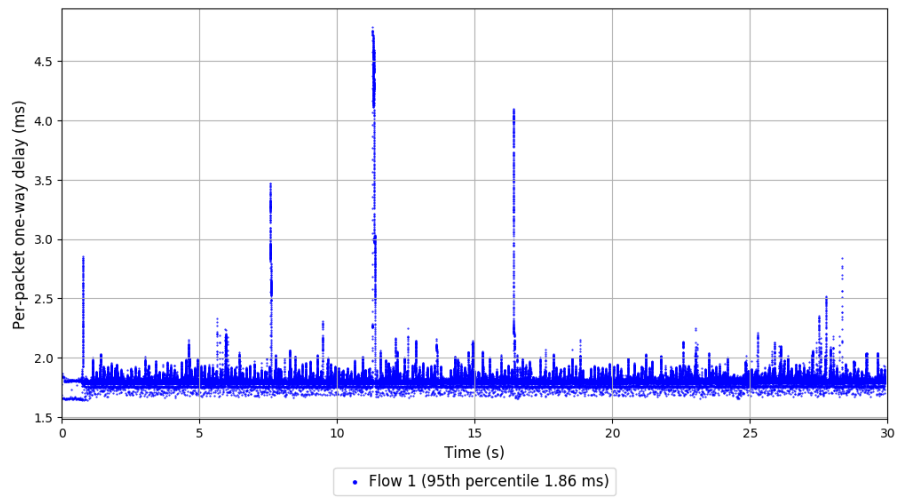
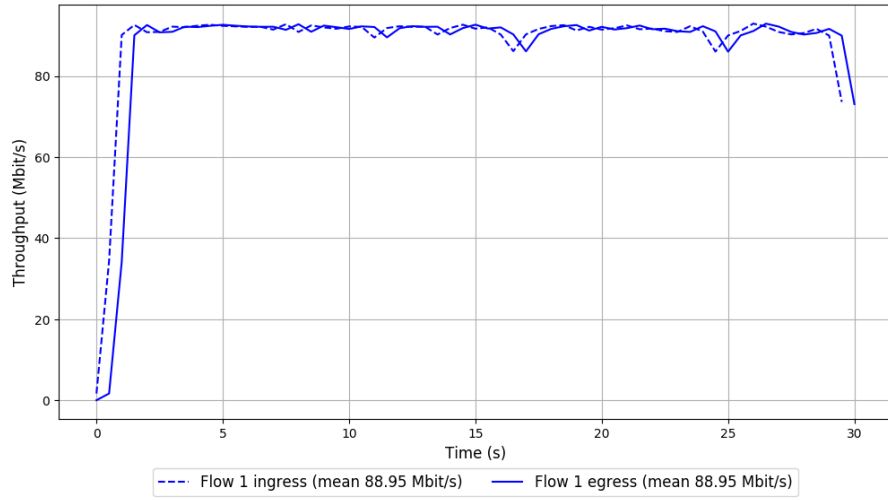


Run 1: Statistics of PCC-Vivace

Start at: 2019-12-11 10:53:41
End at: 2019-12-11 10:54:11
Local clock offset: -6.062 ms
Remote clock offset: -0.174 ms

Below is generated by plot.py at 2019-12-11 13:18:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.95 Mbit/s
95th percentile per-packet one-way delay: 1.858 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 88.95 Mbit/s
95th percentile per-packet one-way delay: 1.858 ms
Loss rate: 0.02%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-12-11 11:20:43

End at: 2019-12-11 11:21:13

Local clock offset: -6.259 ms

Remote clock offset: 0.174 ms

Below is generated by plot.py at 2019-12-11 13:18:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.38 Mbit/s

95th percentile per-packet one-way delay: 2.580 ms

Loss rate: 0.02%

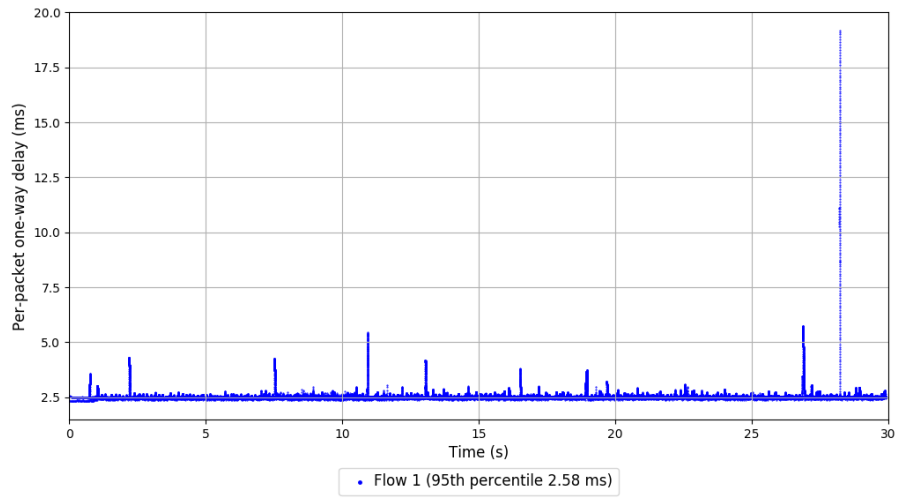
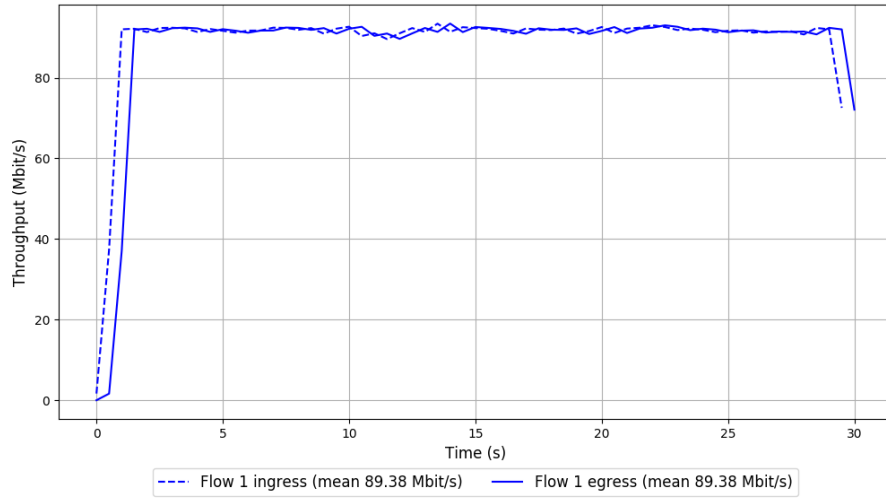
-- Flow 1:

Average throughput: 89.38 Mbit/s

95th percentile per-packet one-way delay: 2.580 ms

Loss rate: 0.02%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-12-11 11:47:48

End at: 2019-12-11 11:48:18

Local clock offset: -5.82 ms

Remote clock offset: 0.464 ms

Below is generated by plot.py at 2019-12-11 13:18:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.75 Mbit/s

95th percentile per-packet one-way delay: 2.395 ms

Loss rate: 0.01%

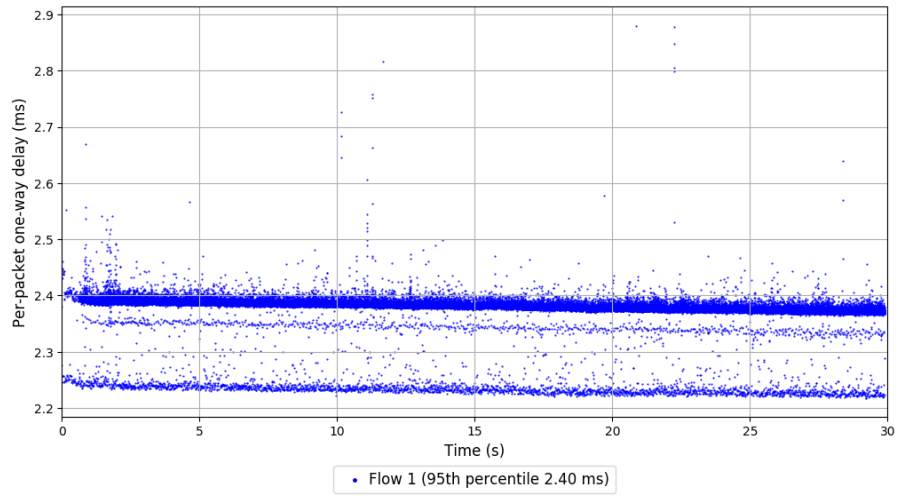
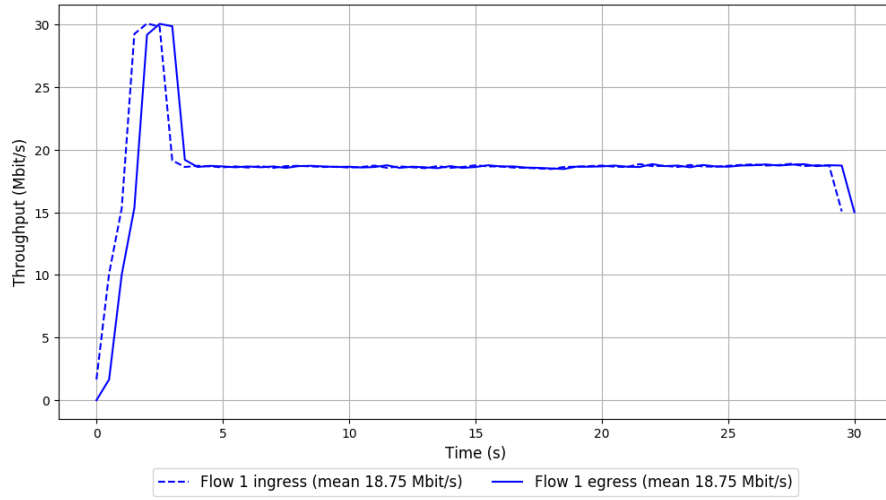
-- Flow 1:

Average throughput: 18.75 Mbit/s

95th percentile per-packet one-way delay: 2.395 ms

Loss rate: 0.01%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-12-11 12:14:46

End at: 2019-12-11 12:15:16

Local clock offset: -5.371 ms

Remote clock offset: 0.68 ms

Below is generated by plot.py at 2019-12-11 13:18:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.19 Mbit/s

95th percentile per-packet one-way delay: 2.400 ms

Loss rate: 0.01%

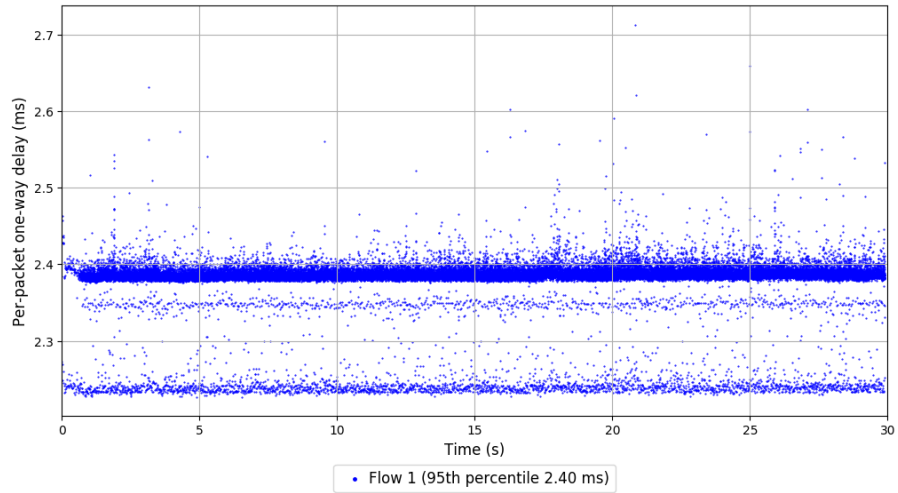
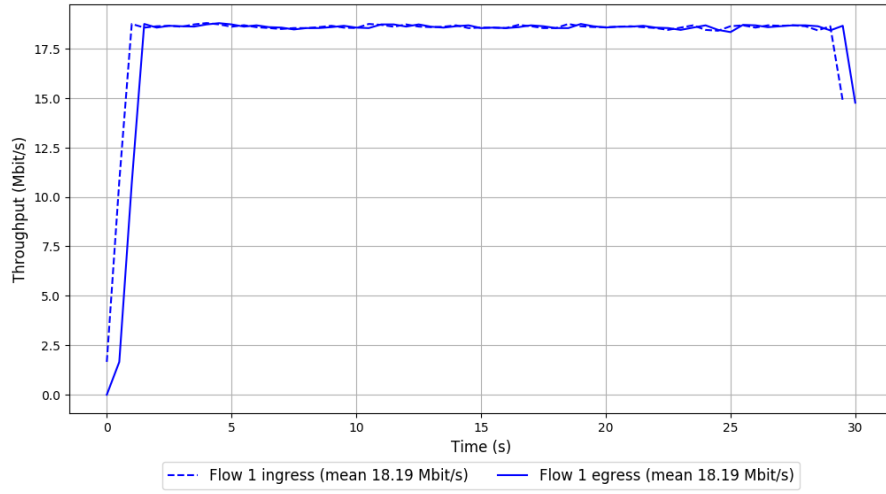
-- Flow 1:

Average throughput: 18.19 Mbit/s

95th percentile per-packet one-way delay: 2.400 ms

Loss rate: 0.01%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-12-11 12:41:44

End at: 2019-12-11 12:42:14

Local clock offset: -5.133 ms

Remote clock offset: 0.677 ms

Below is generated by plot.py at 2019-12-11 13:18:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.94 Mbit/s

95th percentile per-packet one-way delay: 1.642 ms

Loss rate: 0.01%

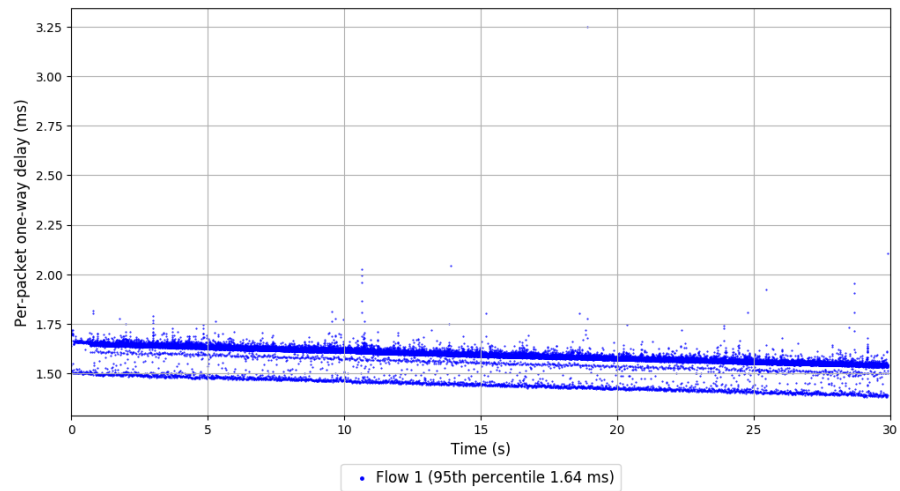
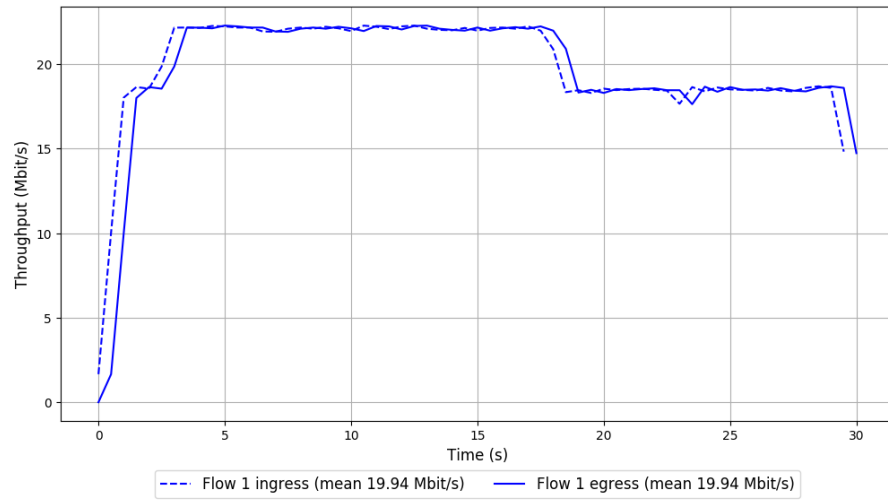
-- Flow 1:

Average throughput: 19.94 Mbit/s

95th percentile per-packet one-way delay: 1.642 ms

Loss rate: 0.01%

Run 5: Report of PCC-Vivace — Data Link

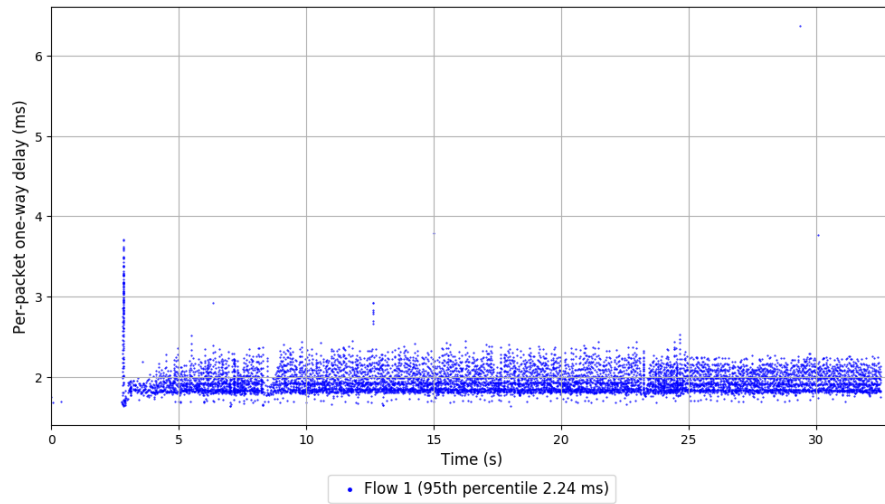
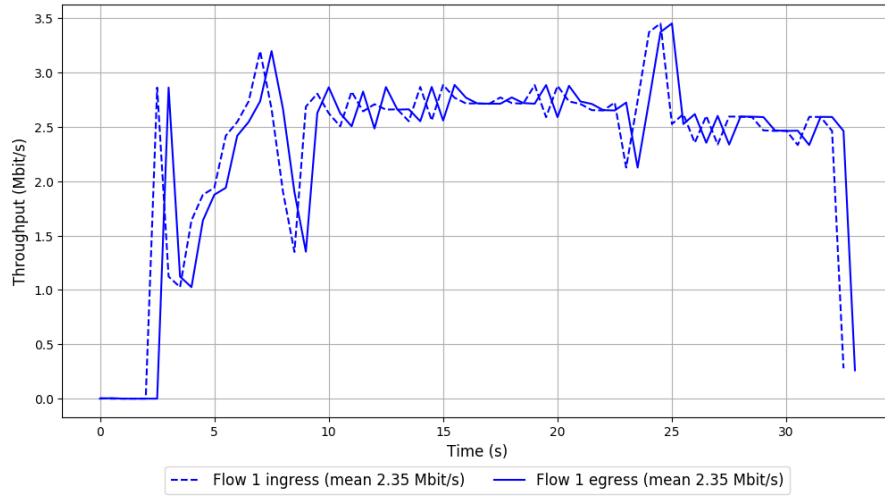


Run 1: Statistics of WebRTC media

Start at: 2019-12-11 11:00:30
End at: 2019-12-11 11:01:00
Local clock offset: -6.035 ms
Remote clock offset: -0.087 ms

Below is generated by plot.py at 2019-12-11 13:18:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 2.238 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 2.238 ms
Loss rate: 0.01%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-12-11 11:27:32

End at: 2019-12-11 11:28:02

Local clock offset: -7.193 ms

Remote clock offset: 0.256 ms

Below is generated by plot.py at 2019-12-11 13:18:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 2.174 ms

Loss rate: 0.00%

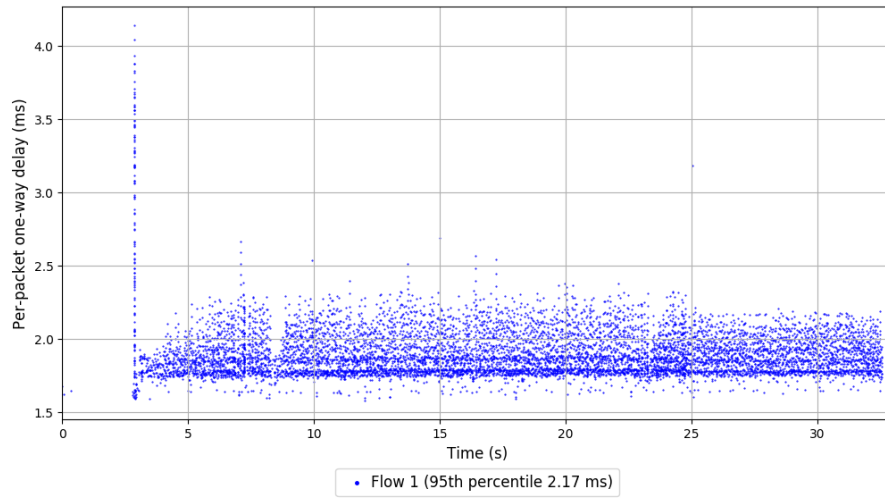
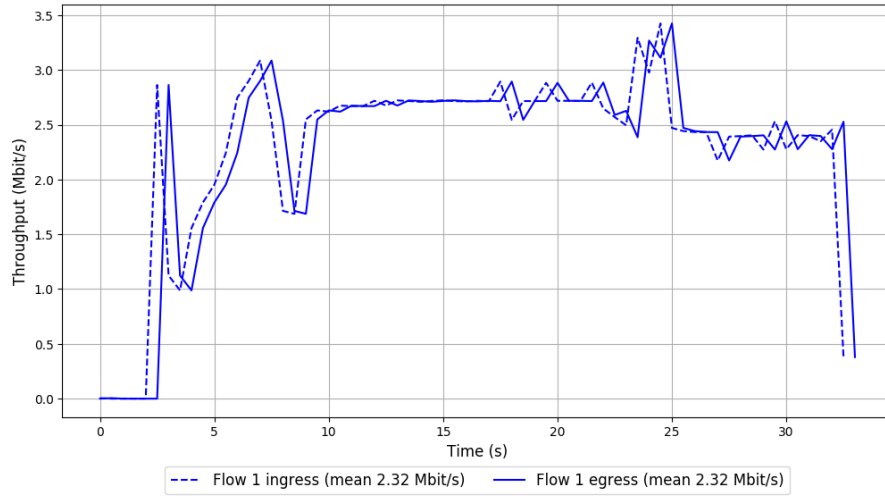
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 2.174 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-12-11 11:54:33

End at: 2019-12-11 11:55:03

Local clock offset: -6.252 ms

Remote clock offset: 0.56 ms

Below is generated by plot.py at 2019-12-11 13:18:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 2.123 ms

Loss rate: 0.00%

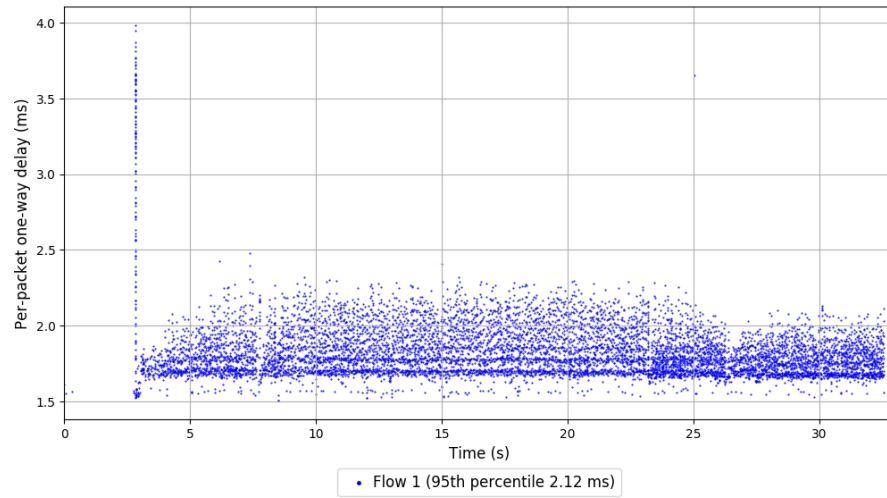
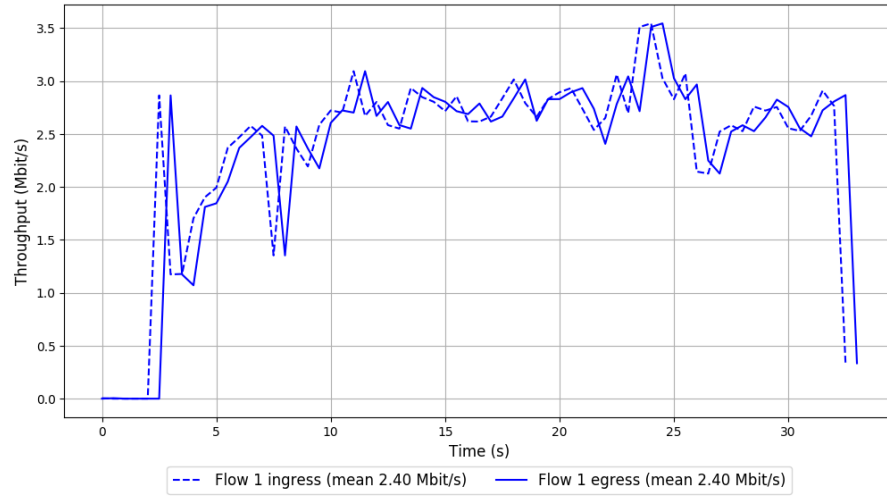
-- Flow 1:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 2.123 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-12-11 12:21:29

End at: 2019-12-11 12:21:59

Local clock offset: -6.075 ms

Remote clock offset: 0.686 ms

Below is generated by plot.py at 2019-12-11 13:18:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 2.148 ms

Loss rate: 0.08%

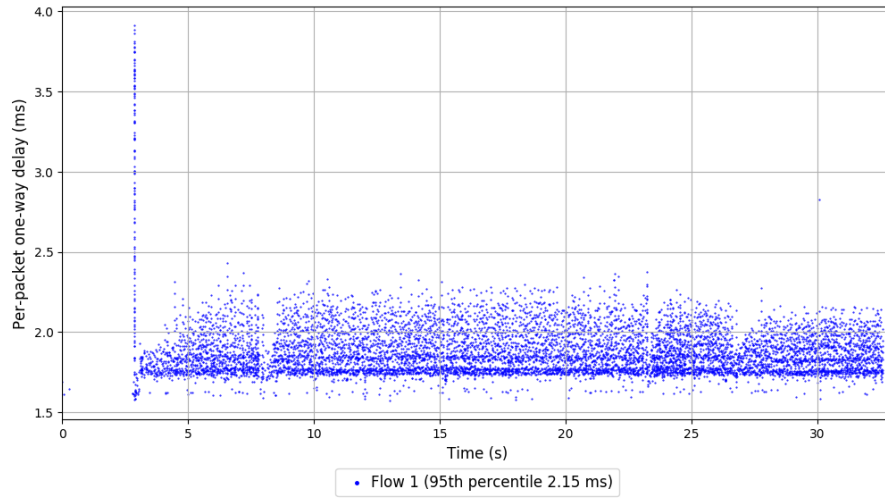
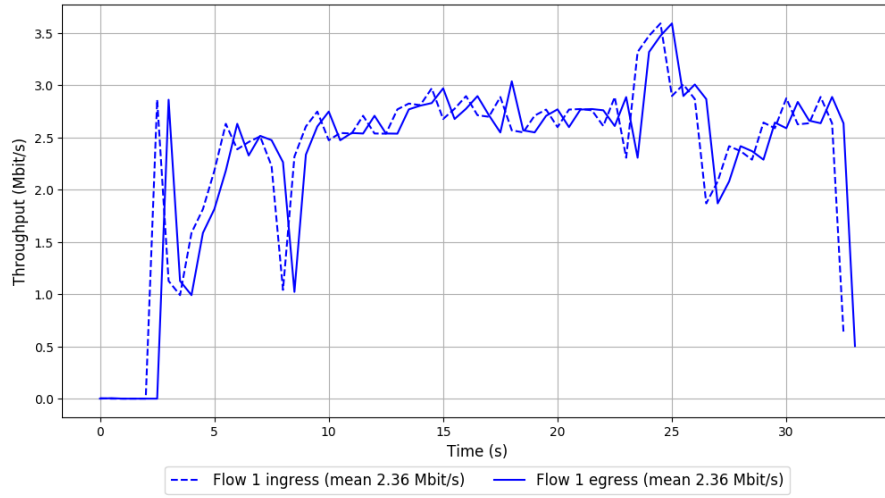
-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 2.148 ms

Loss rate: 0.08%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-12-11 12:48:29

End at: 2019-12-11 12:48:59

Local clock offset: -3.207 ms

Remote clock offset: 0.666 ms

Below is generated by plot.py at 2019-12-11 13:18:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 2.866 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 2.866 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

