

Pantheon Report

Generated at 2019-03-27 08:49:05 (UTC).

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

Repeated the test of 21 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

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

System info:

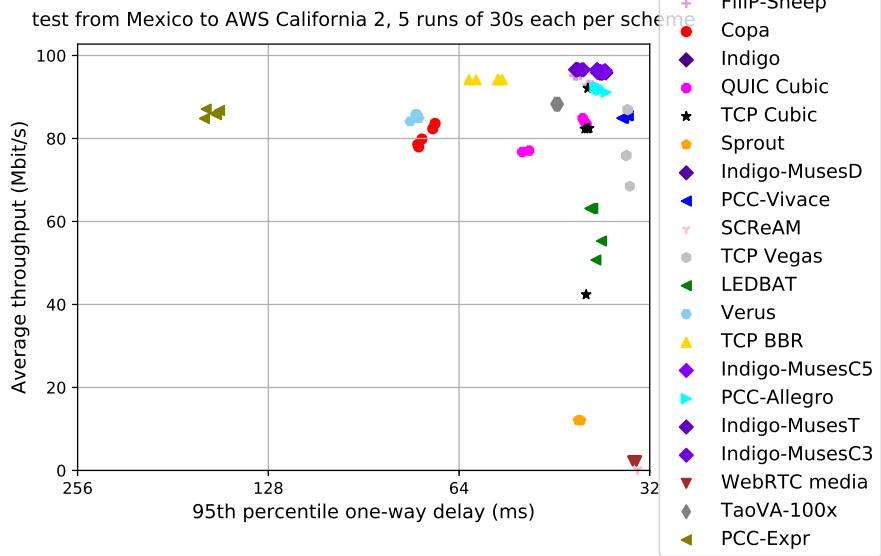
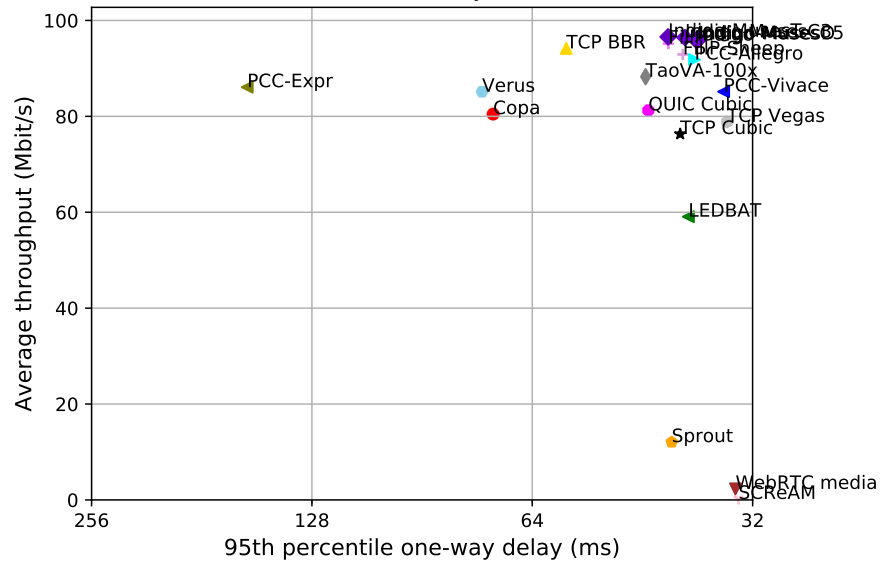
```
Linux 4.15.0-1034-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from Mexico to AWS California 2, 5 runs of 30s each per scheme
(mean of all runs by scheme)



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	94.17	57.51	0.62
Copa	5	80.47	72.39	0.30
TCP Cubic	5	76.32	40.19	0.29
FillP	5	95.16	41.72	0.24
FillP-Sheep	5	92.92	39.85	0.25
Indigo	5	95.80	38.15	0.23
Indigo-MusesC3	5	96.44	39.58	0.24
Indigo-MusesC5	5	96.11	38.09	0.24
Indigo-MusesD	5	96.06	37.92	0.23
Indigo-MusesT	5	96.58	41.75	0.90
LEDBAT	5	59.08	39.17	0.25
PCC-Allegro	5	91.84	38.41	0.25
PCC-Expr	5	86.08	156.91	0.29
QUIC Cubic	5	81.24	44.42	0.28
SCReAM	5	0.21	33.45	0.26
Sprout	5	12.07	41.28	0.26
TaoVA-100x	5	88.26	44.81	0.22
TCP Vegas	5	78.84	34.69	0.27
Verus	5	85.13	74.96	0.43
PCC-Vivace	5	85.15	35.06	0.24
WebRTC media	5	2.30	33.77	0.24

Run 1: Statistics of TCP BBR

Start at: 2019-03-27 06:54:27

End at: 2019-03-27 06:54:57

Local clock offset: 1.917 ms

Remote clock offset: 2.007 ms

Below is generated by plot.py at 2019-03-27 08:36:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.17 Mbit/s

95th percentile per-packet one-way delay: 55.666 ms

Loss rate: 0.61%

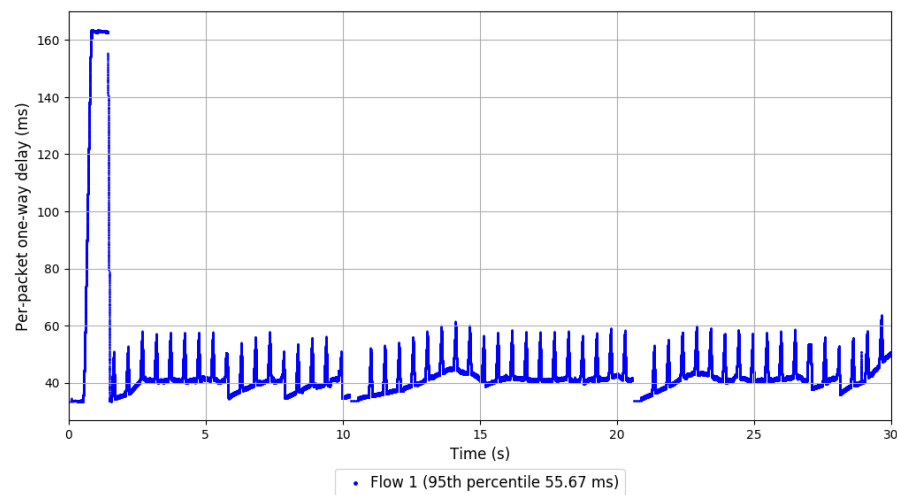
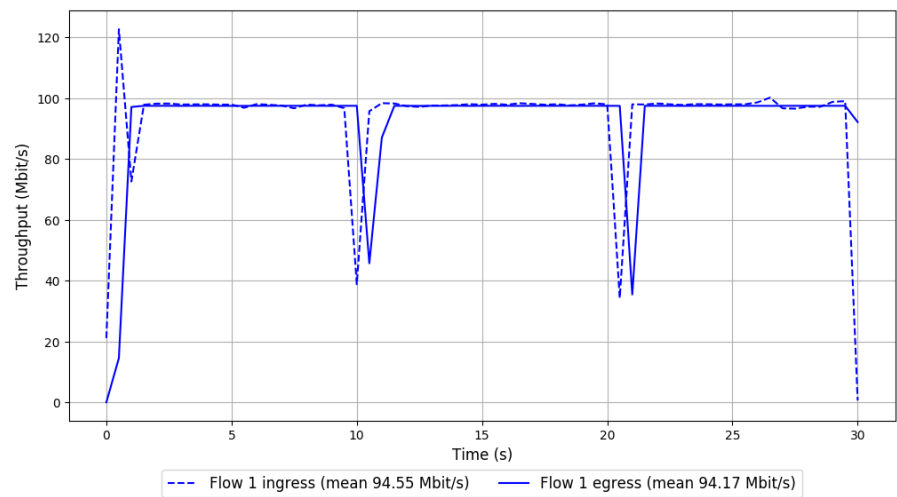
-- Flow 1:

Average throughput: 94.17 Mbit/s

95th percentile per-packet one-way delay: 55.666 ms

Loss rate: 0.61%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-03-27 07:18:58

End at: 2019-03-27 07:19:28

Local clock offset: 0.278 ms

Remote clock offset: 2.927 ms

Below is generated by plot.py at 2019-03-27 08:36:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.17 Mbit/s

95th percentile per-packet one-way delay: 61.715 ms

Loss rate: 0.85%

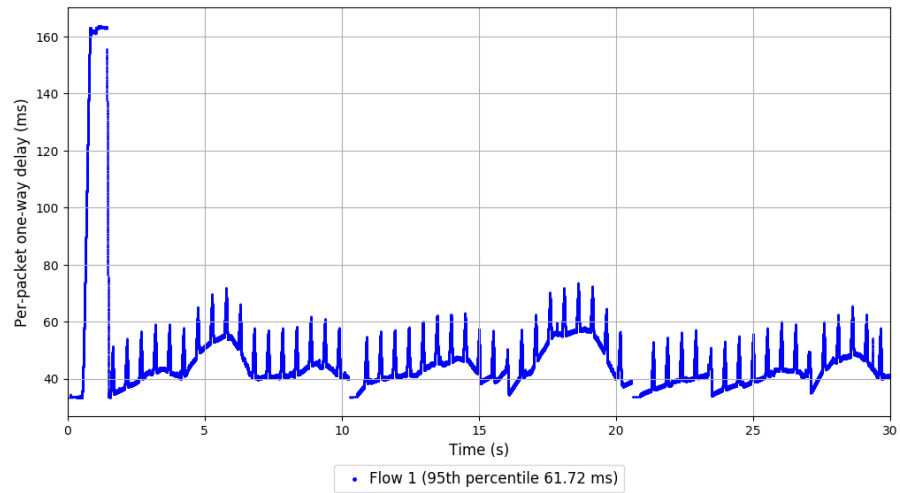
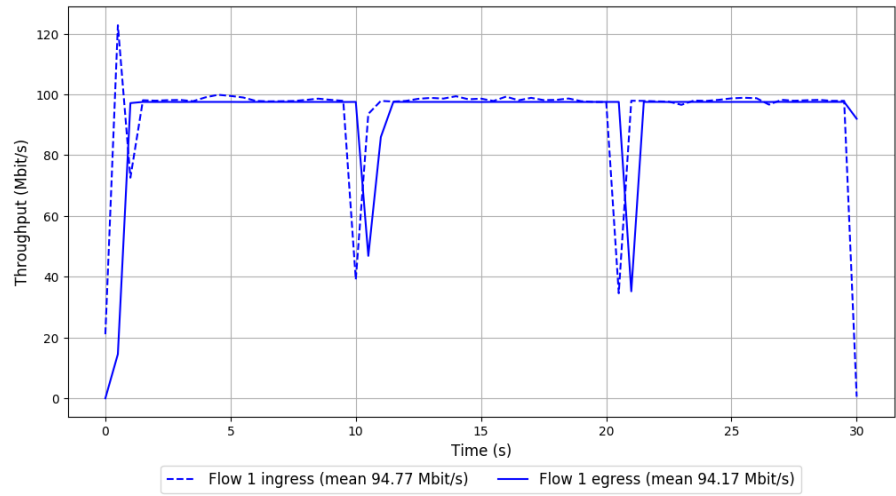
-- Flow 1:

Average throughput: 94.17 Mbit/s

95th percentile per-packet one-way delay: 61.715 ms

Loss rate: 0.85%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-03-27 07:43:27

End at: 2019-03-27 07:43:58

Local clock offset: 0.229 ms

Remote clock offset: 3.25 ms

Below is generated by plot.py at 2019-03-27 08:36:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.17 Mbit/s

95th percentile per-packet one-way delay: 60.159 ms

Loss rate: 0.71%

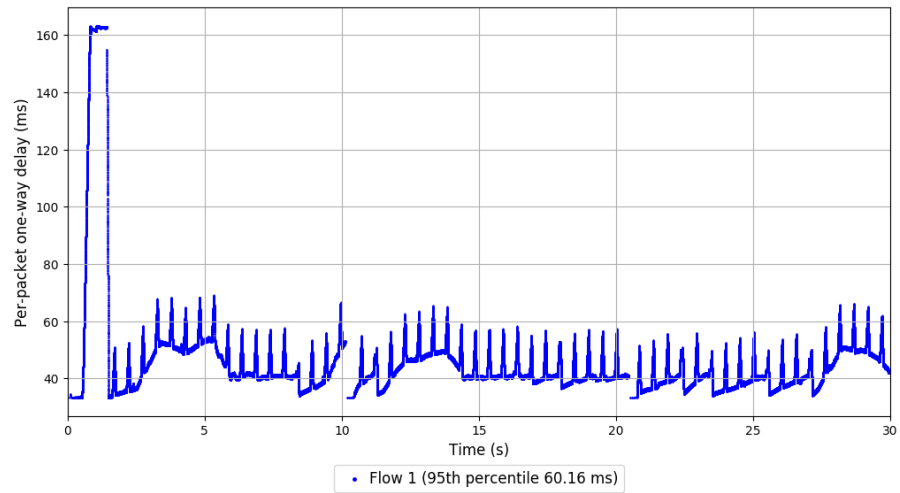
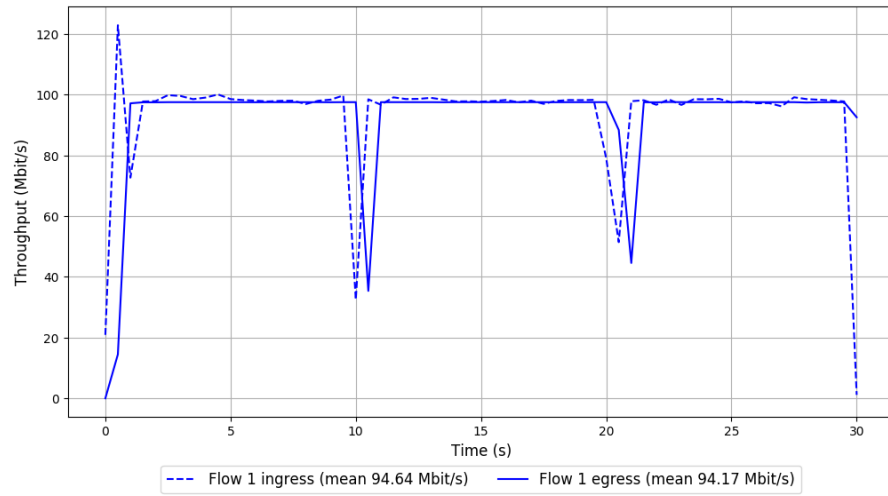
-- Flow 1:

Average throughput: 94.17 Mbit/s

95th percentile per-packet one-way delay: 60.159 ms

Loss rate: 0.71%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-03-27 08:08:07

End at: 2019-03-27 08:08:37

Local clock offset: 0.409 ms

Remote clock offset: 2.343 ms

Below is generated by plot.py at 2019-03-27 08:36:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.16 Mbit/s

95th percentile per-packet one-way delay: 55.317 ms

Loss rate: 0.49%

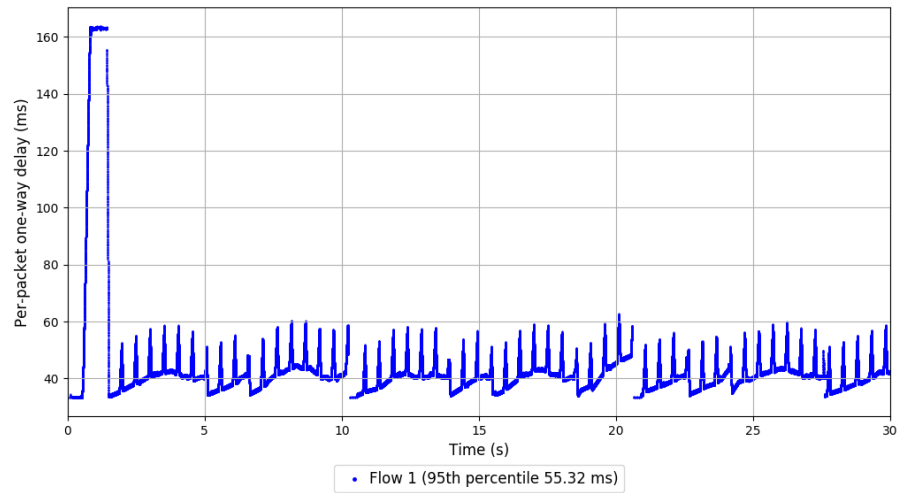
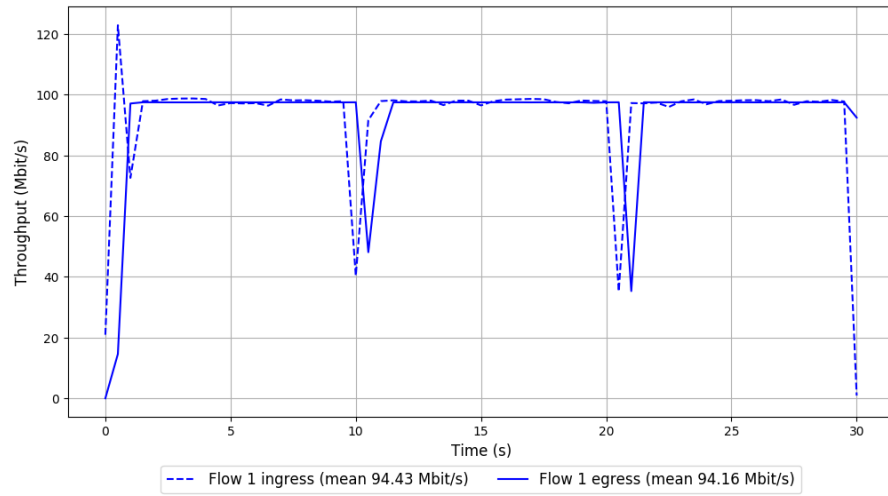
-- Flow 1:

Average throughput: 94.16 Mbit/s

95th percentile per-packet one-way delay: 55.317 ms

Loss rate: 0.49%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-03-27 08:32:38

End at: 2019-03-27 08:33:08

Local clock offset: 3.406 ms

Remote clock offset: 2.019 ms

Below is generated by plot.py at 2019-03-27 08:36:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.17 Mbit/s

95th percentile per-packet one-way delay: 54.672 ms

Loss rate: 0.45%

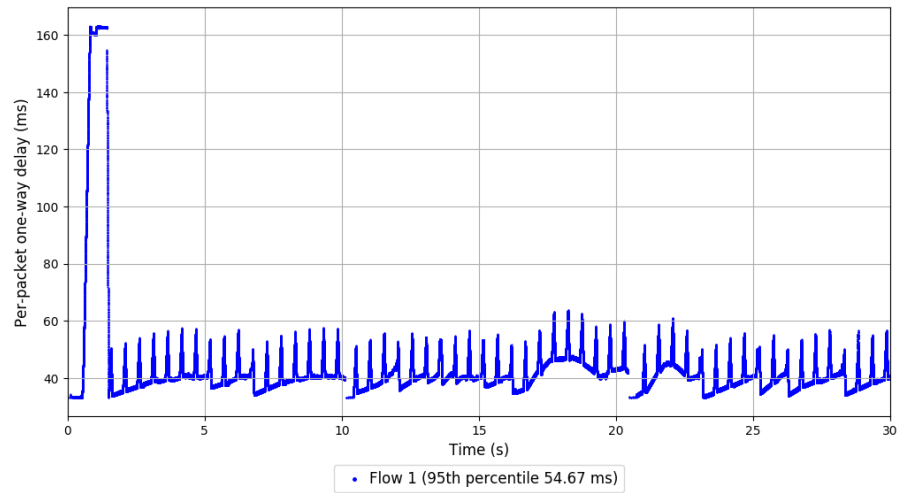
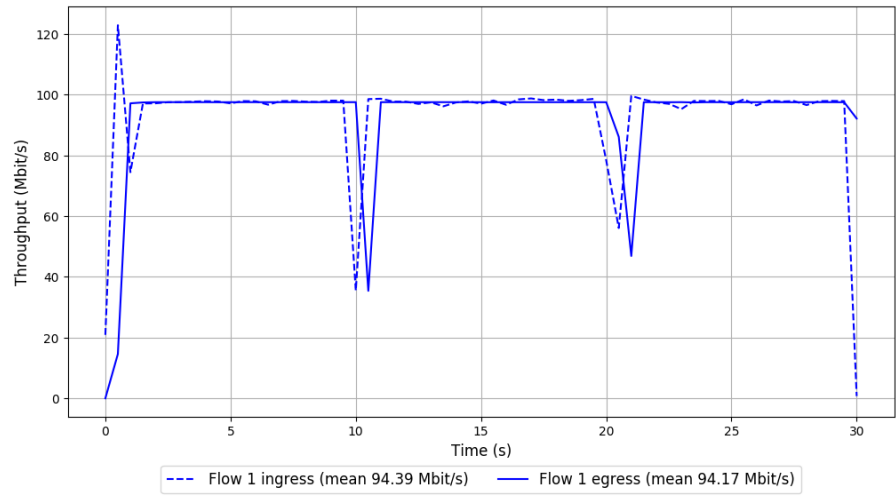
-- Flow 1:

Average throughput: 94.17 Mbit/s

95th percentile per-packet one-way delay: 54.672 ms

Loss rate: 0.45%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-03-27 06:48:38

End at: 2019-03-27 06:49:08

Local clock offset: 3.646 ms

Remote clock offset: 1.402 ms

Below is generated by plot.py at 2019-03-27 08:36:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.55 Mbit/s

95th percentile per-packet one-way delay: 74.356 ms

Loss rate: 0.29%

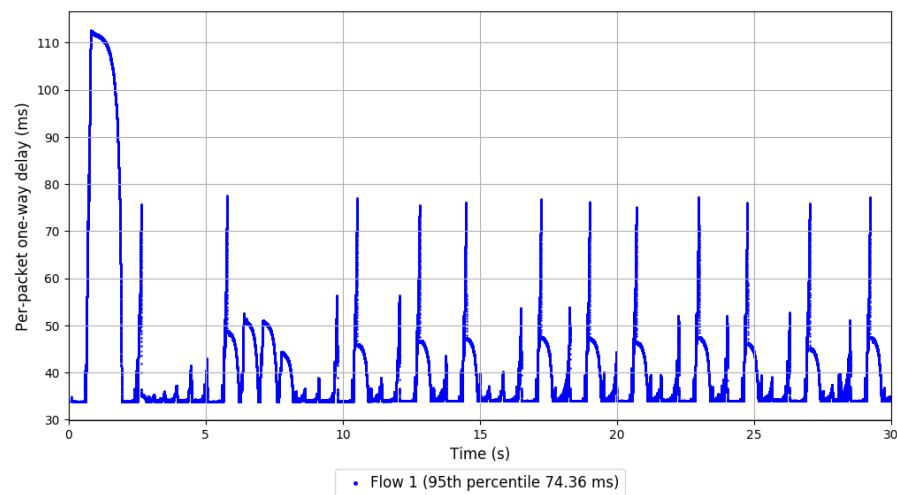
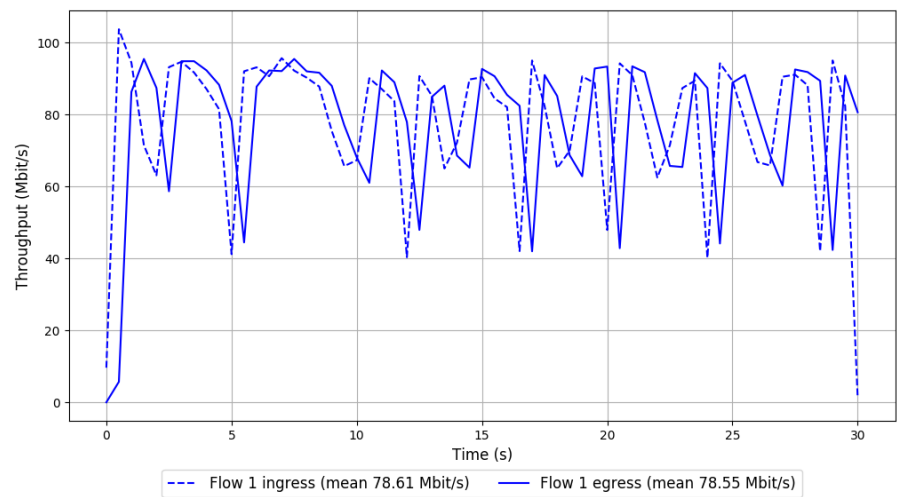
-- Flow 1:

Average throughput: 78.55 Mbit/s

95th percentile per-packet one-way delay: 74.356 ms

Loss rate: 0.29%

Run 1: Report of Copa — Data Link

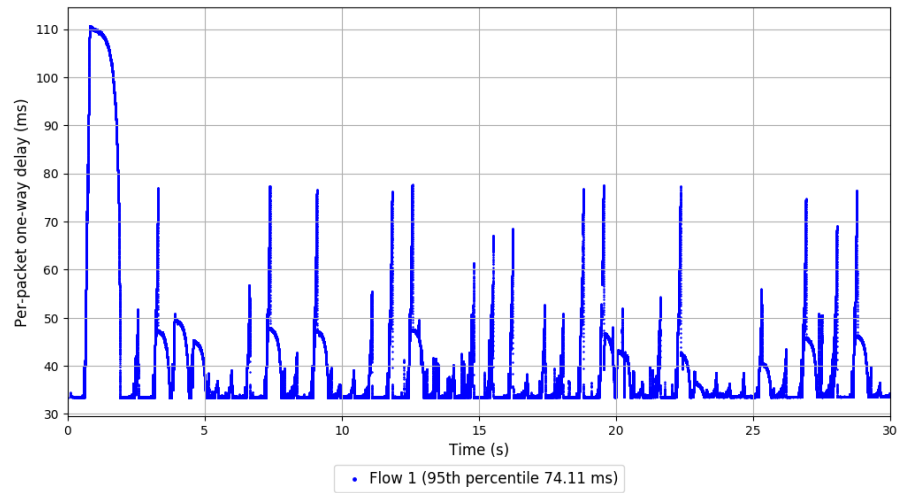
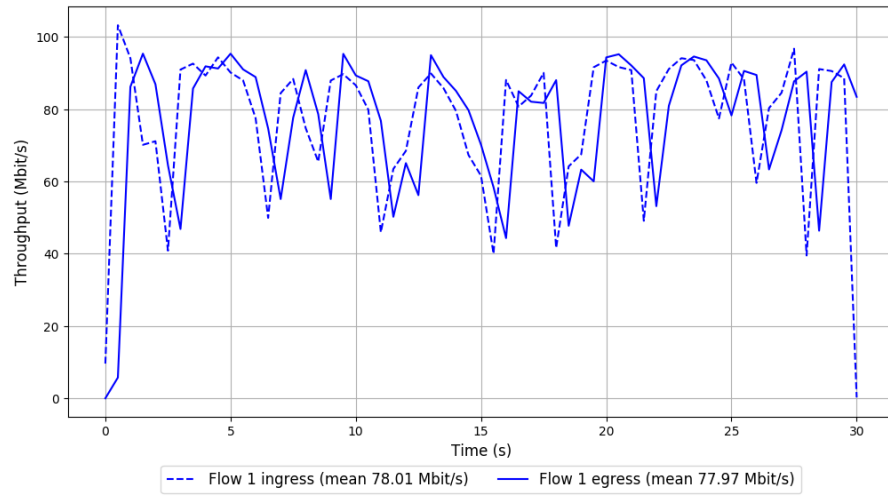


Run 2: Statistics of Copa

Start at: 2019-03-27 07:13:12
End at: 2019-03-27 07:13:42
Local clock offset: 0.365 ms
Remote clock offset: 2.649 ms

Below is generated by plot.py at 2019-03-27 08:36:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.97 Mbit/s
95th percentile per-packet one-way delay: 74.111 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 77.97 Mbit/s
95th percentile per-packet one-way delay: 74.111 ms
Loss rate: 0.27%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-03-27 07:37:41

End at: 2019-03-27 07:38:11

Local clock offset: 0.216 ms

Remote clock offset: 3.273 ms

Below is generated by plot.py at 2019-03-27 08:37:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.34 Mbit/s

95th percentile per-packet one-way delay: 70.405 ms

Loss rate: 0.27%

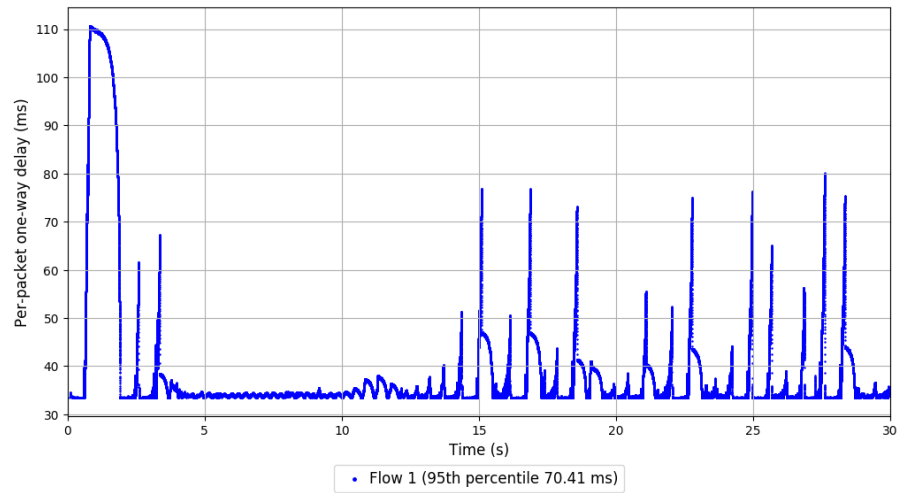
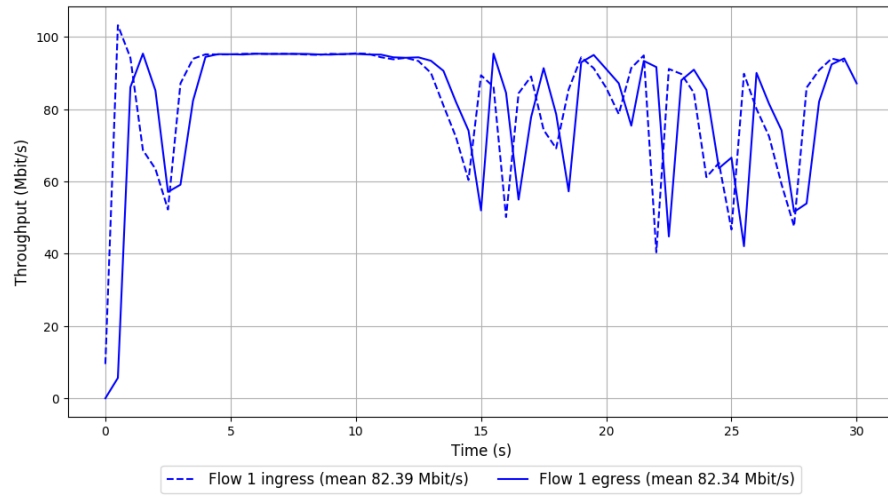
-- Flow 1:

Average throughput: 82.34 Mbit/s

95th percentile per-packet one-way delay: 70.405 ms

Loss rate: 0.27%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-03-27 08:02:21

End at: 2019-03-27 08:02:51

Local clock offset: 0.369 ms

Remote clock offset: 2.512 ms

Below is generated by plot.py at 2019-03-27 08:38:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.86 Mbit/s

95th percentile per-packet one-way delay: 73.237 ms

Loss rate: 0.39%

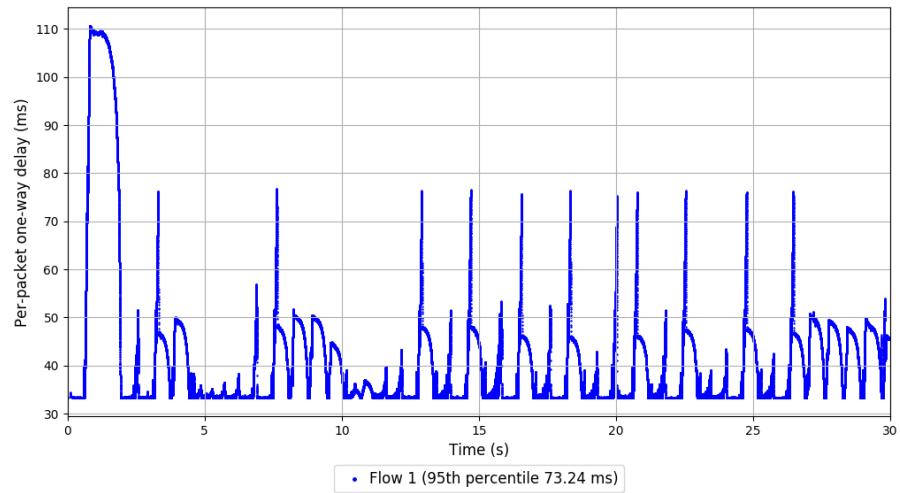
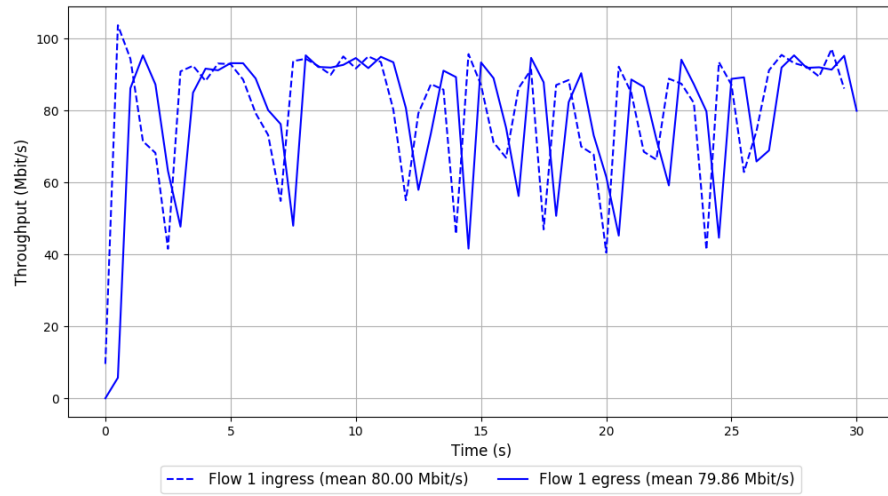
-- Flow 1:

Average throughput: 79.86 Mbit/s

95th percentile per-packet one-way delay: 73.237 ms

Loss rate: 0.39%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-03-27 08:26:51

End at: 2019-03-27 08:27:21

Local clock offset: 2.778 ms

Remote clock offset: 2.063 ms

Below is generated by plot.py at 2019-03-27 08:38:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.63 Mbit/s

95th percentile per-packet one-way delay: 69.827 ms

Loss rate: 0.26%

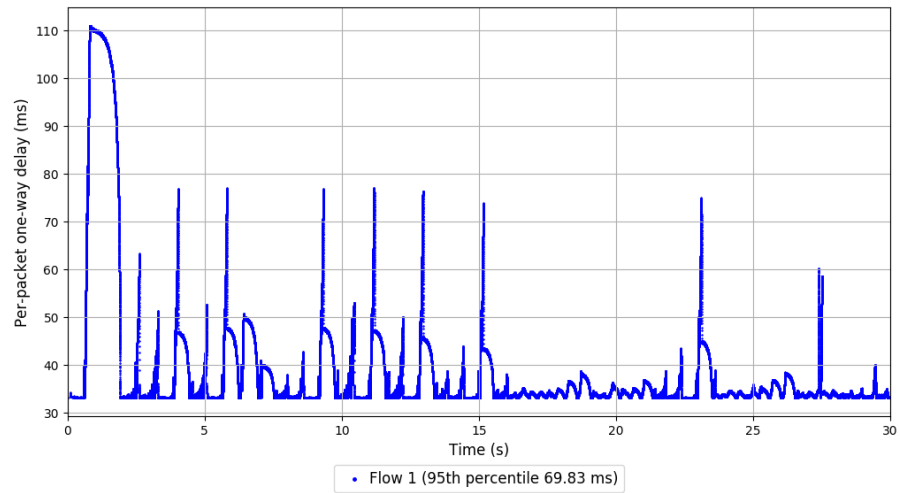
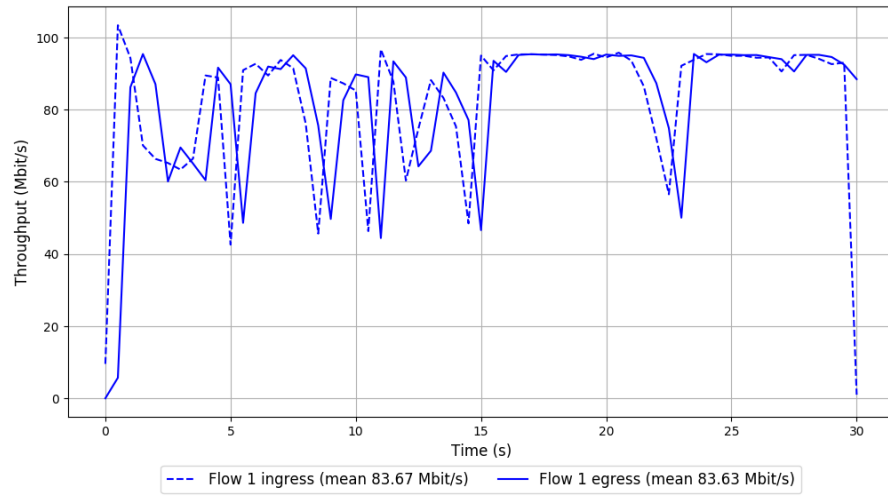
-- Flow 1:

Average throughput: 83.63 Mbit/s

95th percentile per-packet one-way delay: 69.827 ms

Loss rate: 0.26%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-03-27 06:41:34

End at: 2019-03-27 06:42:04

Local clock offset: 4.535 ms

Remote clock offset: 1.158 ms

Below is generated by plot.py at 2019-03-27 08:38:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.33 Mbit/s

95th percentile per-packet one-way delay: 40.148 ms

Loss rate: 0.26%

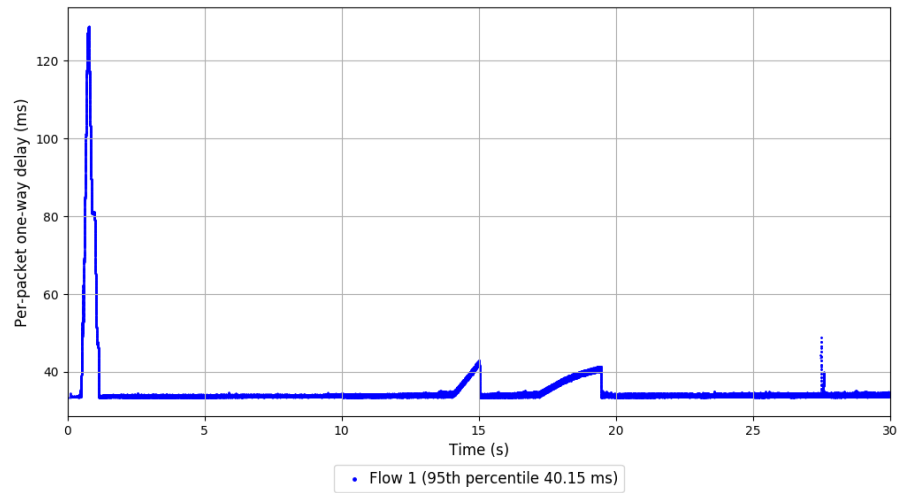
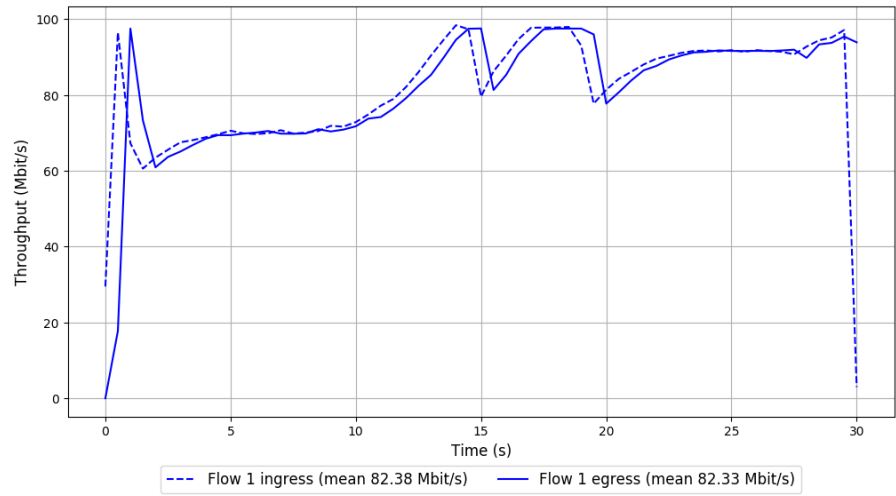
-- Flow 1:

Average throughput: 82.33 Mbit/s

95th percentile per-packet one-way delay: 40.148 ms

Loss rate: 0.26%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-03-27 07:06:11

End at: 2019-03-27 07:06:41

Local clock offset: 0.659 ms

Remote clock offset: 2.395 ms

Below is generated by plot.py at 2019-03-27 08:38:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.38 Mbit/s

95th percentile per-packet one-way delay: 40.326 ms

Loss rate: 0.49%

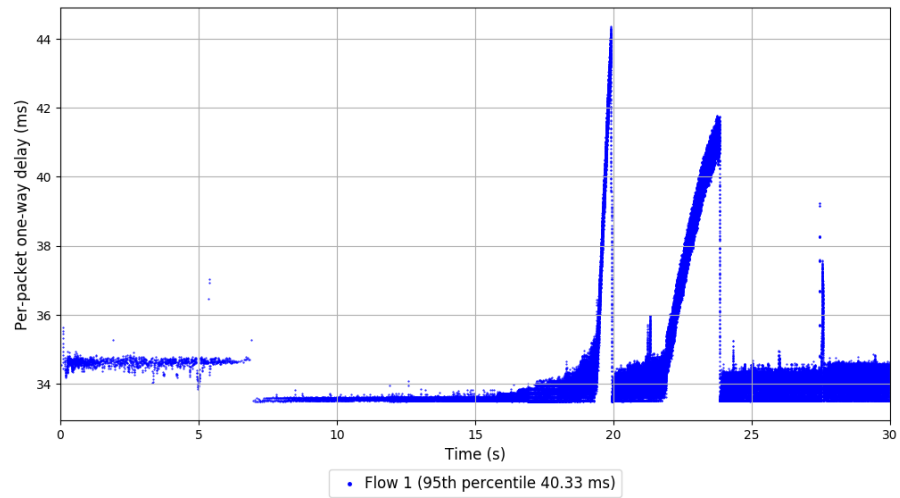
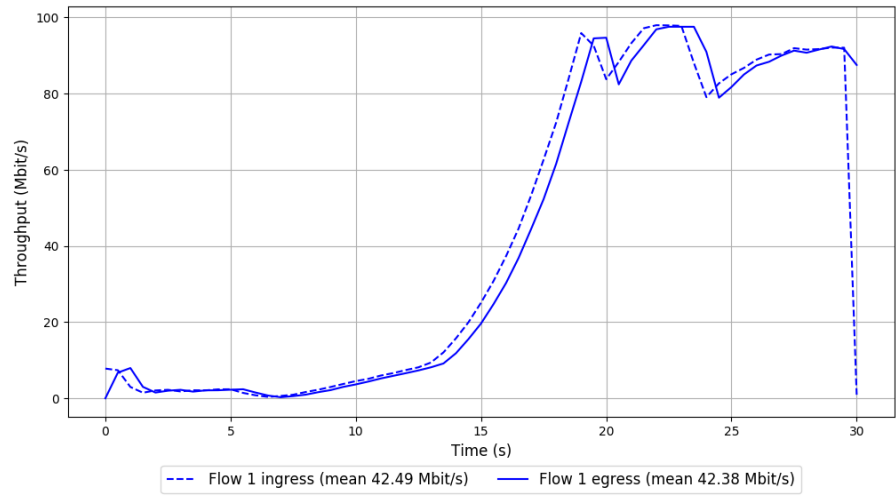
-- Flow 1:

Average throughput: 42.38 Mbit/s

95th percentile per-packet one-way delay: 40.326 ms

Loss rate: 0.49%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2019-03-27 07:30:39

End at: 2019-03-27 07:31:09

Local clock offset: 0.209 ms

Remote clock offset: 3.209 ms

Below is generated by plot.py at 2019-03-27 08:38:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.31 Mbit/s

95th percentile per-packet one-way delay: 40.504 ms

Loss rate: 0.26%

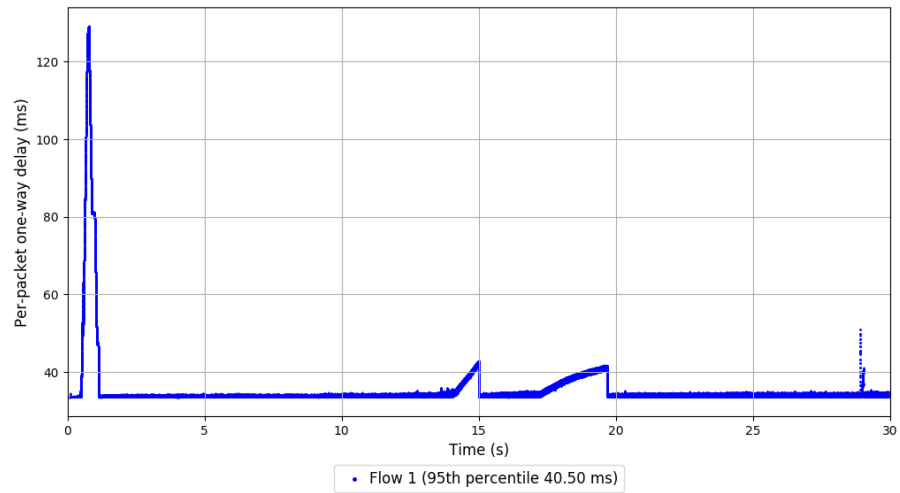
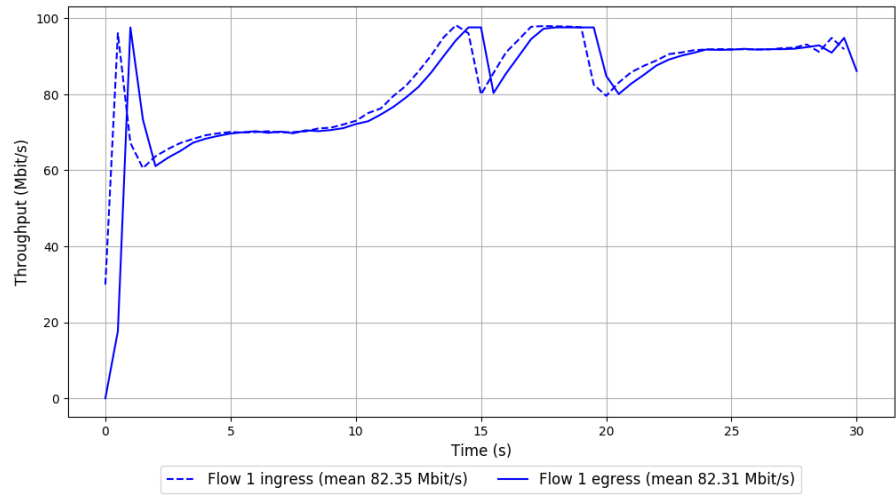
-- Flow 1:

Average throughput: 82.31 Mbit/s

95th percentile per-packet one-way delay: 40.504 ms

Loss rate: 0.26%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-03-27 07:55:18

End at: 2019-03-27 07:55:48

Local clock offset: 0.337 ms

Remote clock offset: 2.787 ms

Below is generated by plot.py at 2019-03-27 08:38:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.46 Mbit/s

95th percentile per-packet one-way delay: 39.904 ms

Loss rate: 0.26%

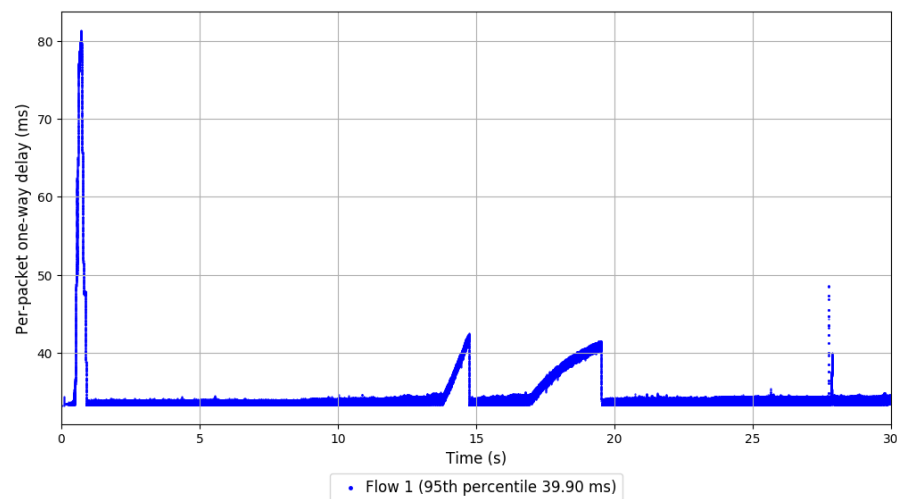
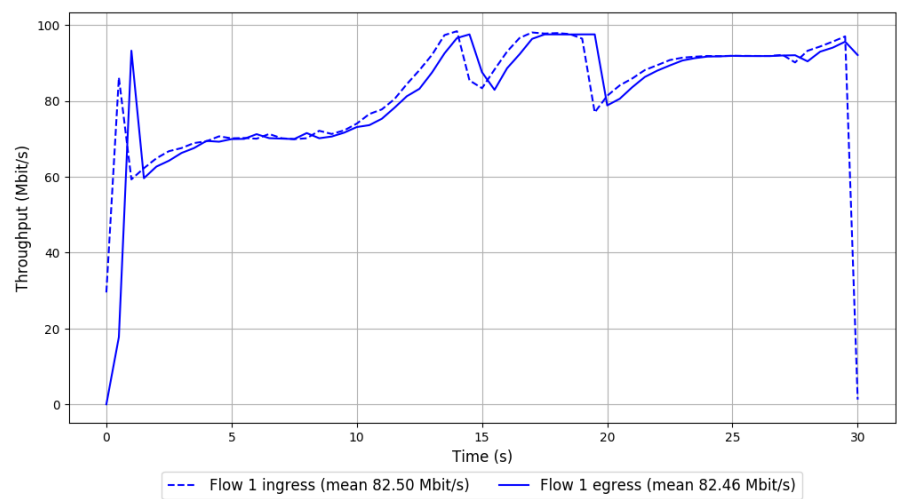
-- Flow 1:

Average throughput: 82.46 Mbit/s

95th percentile per-packet one-way delay: 39.904 ms

Loss rate: 0.26%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-03-27 08:19:48

End at: 2019-03-27 08:20:18

Local clock offset: 1.536 ms

Remote clock offset: 2.101 ms

Below is generated by plot.py at 2019-03-27 08:38:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.10 Mbit/s

95th percentile per-packet one-way delay: 40.073 ms

Loss rate: 0.19%

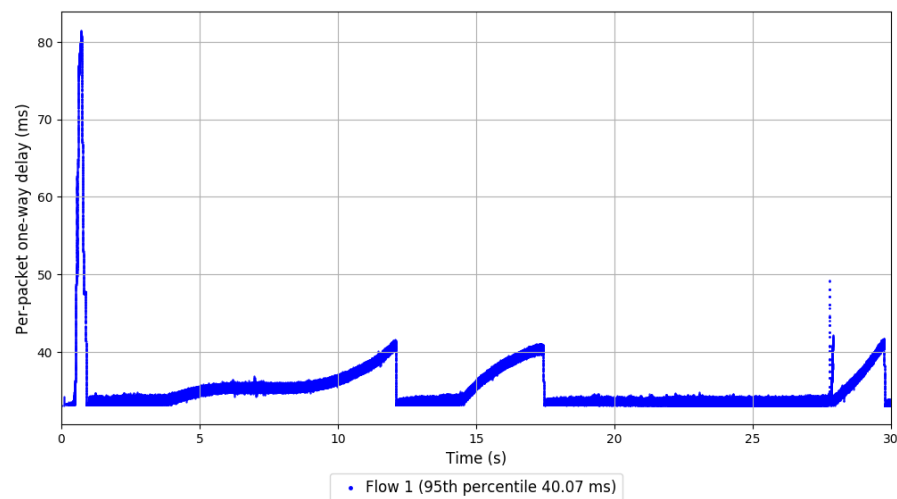
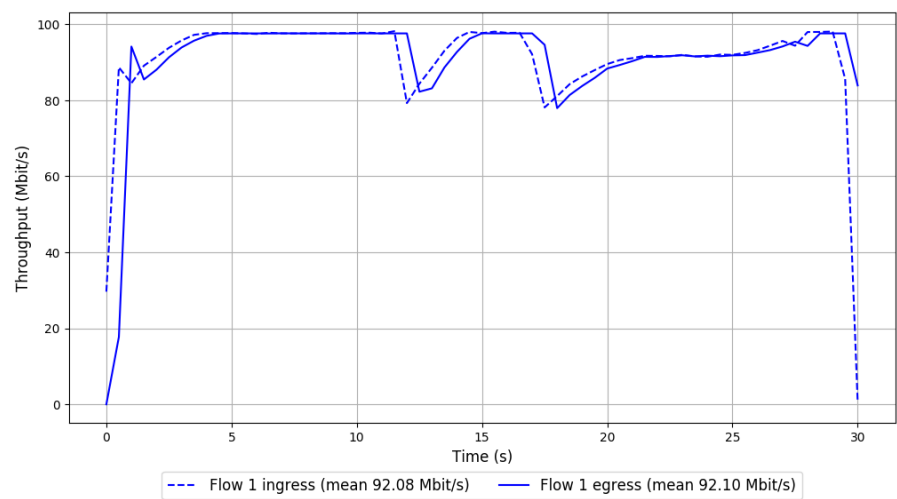
-- Flow 1:

Average throughput: 92.10 Mbit/s

95th percentile per-packet one-way delay: 40.073 ms

Loss rate: 0.19%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-03-27 06:47:28

End at: 2019-03-27 06:47:58

Local clock offset: 4.101 ms

Remote clock offset: 1.351 ms

Below is generated by plot.py at 2019-03-27 08:38:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.14 Mbit/s

95th percentile per-packet one-way delay: 41.749 ms

Loss rate: 0.22%

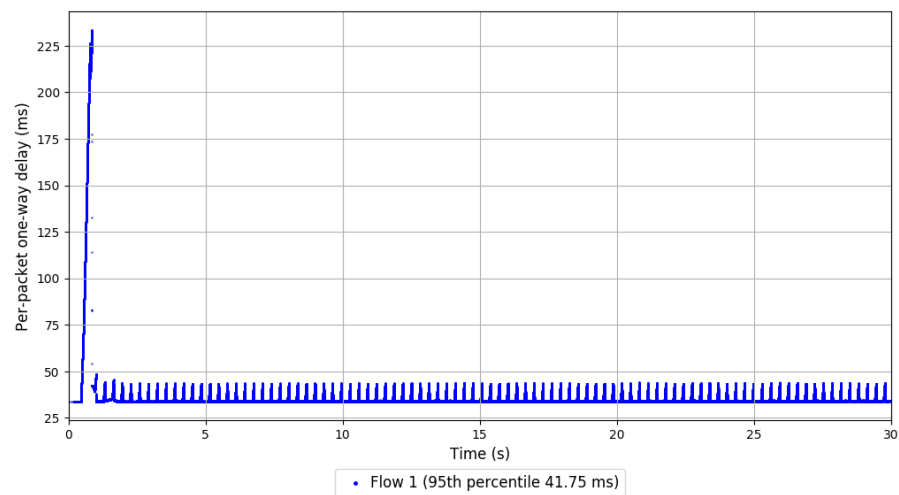
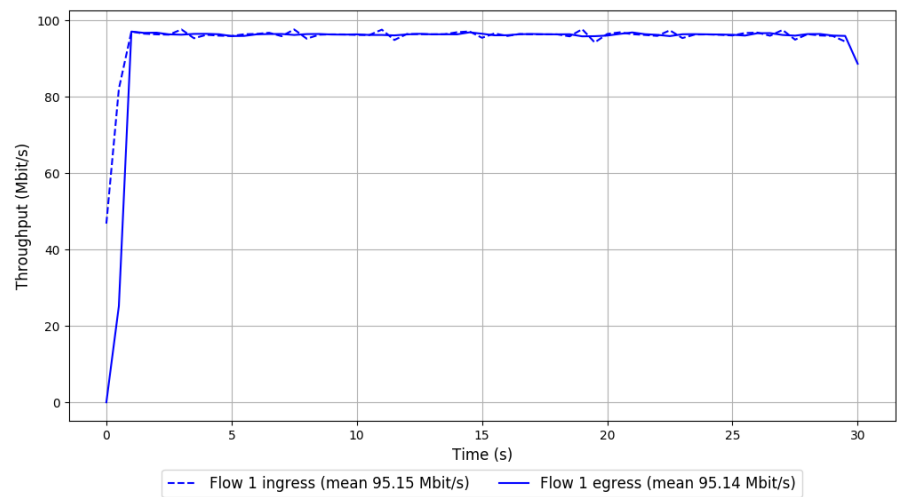
-- Flow 1:

Average throughput: 95.14 Mbit/s

95th percentile per-packet one-way delay: 41.749 ms

Loss rate: 0.22%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-03-27 07:12:02

End at: 2019-03-27 07:12:32

Local clock offset: 0.423 ms

Remote clock offset: 2.633 ms

Below is generated by plot.py at 2019-03-27 08:38:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.20 Mbit/s

95th percentile per-packet one-way delay: 41.729 ms

Loss rate: 0.33%

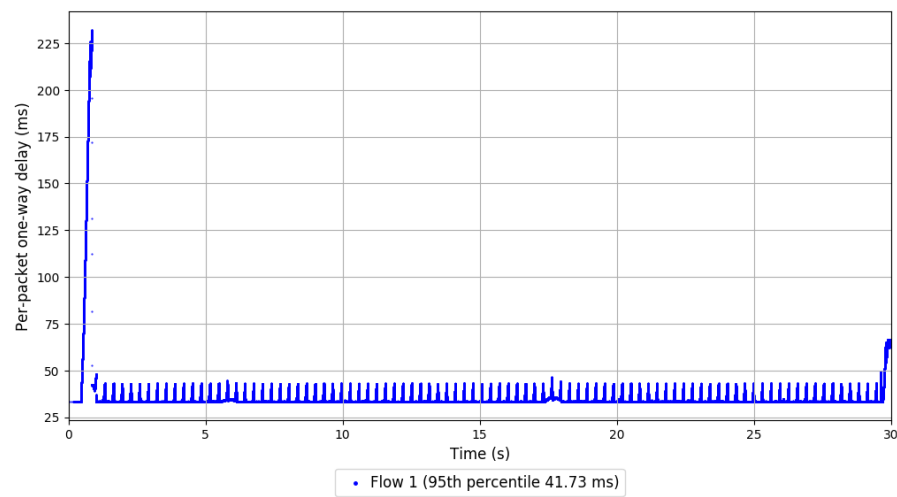
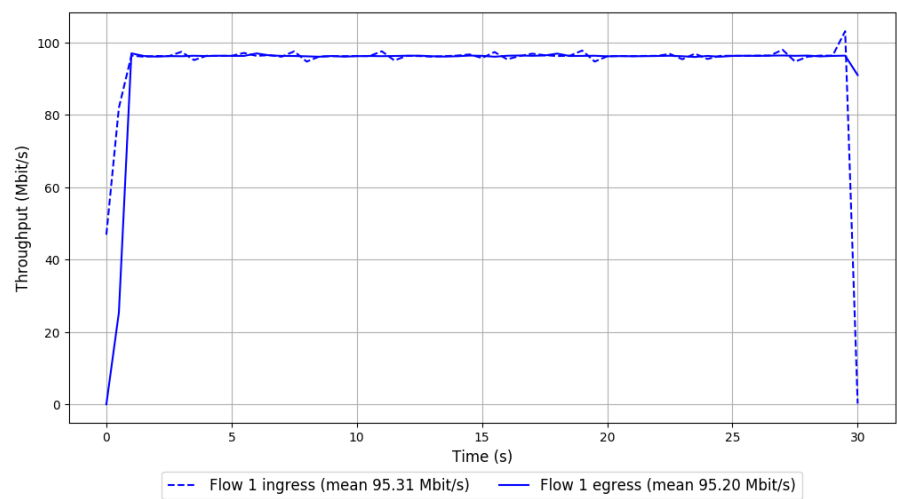
-- Flow 1:

Average throughput: 95.20 Mbit/s

95th percentile per-packet one-way delay: 41.729 ms

Loss rate: 0.33%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-03-27 07:36:31

End at: 2019-03-27 07:37:01

Local clock offset: 0.21 ms

Remote clock offset: 3.501 ms

Below is generated by plot.py at 2019-03-27 08:38:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.20 Mbit/s

95th percentile per-packet one-way delay: 41.165 ms

Loss rate: 0.23%

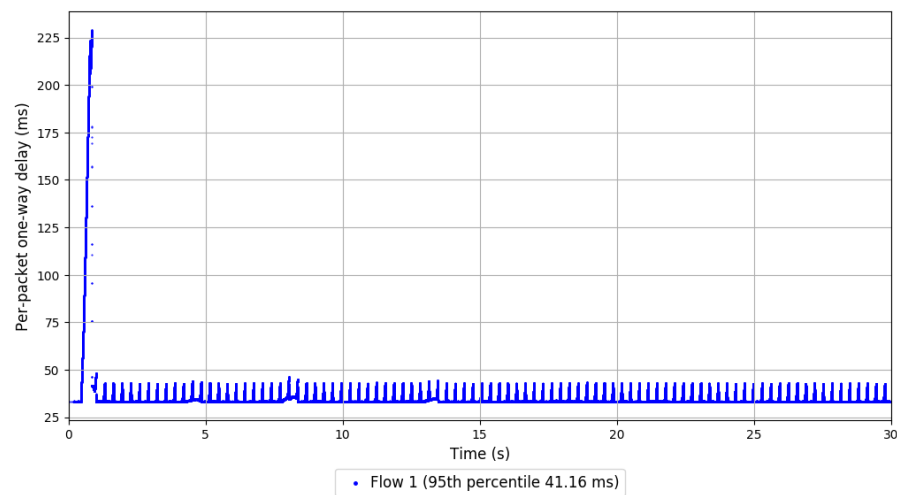
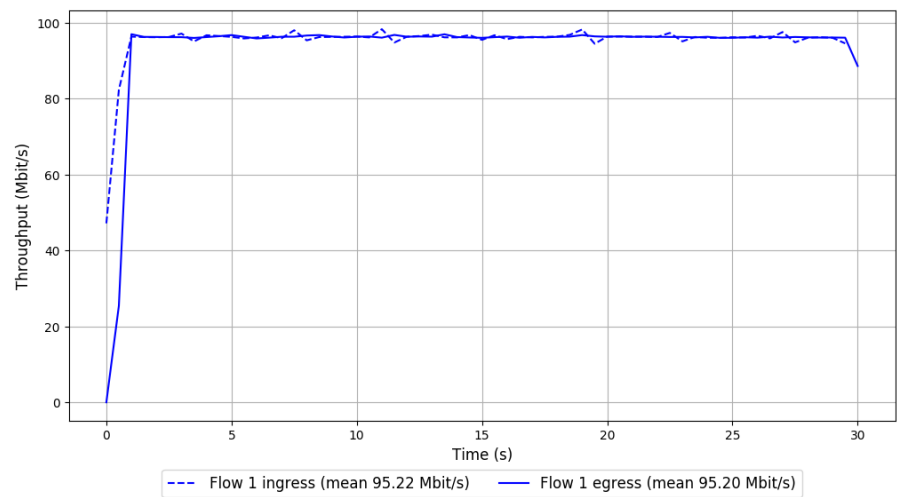
-- Flow 1:

Average throughput: 95.20 Mbit/s

95th percentile per-packet one-way delay: 41.165 ms

Loss rate: 0.23%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-03-27 08:01:11

End at: 2019-03-27 08:01:41

Local clock offset: 0.382 ms

Remote clock offset: 2.359 ms

Below is generated by plot.py at 2019-03-27 08:38:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.15 Mbit/s

95th percentile per-packet one-way delay: 42.147 ms

Loss rate: 0.22%

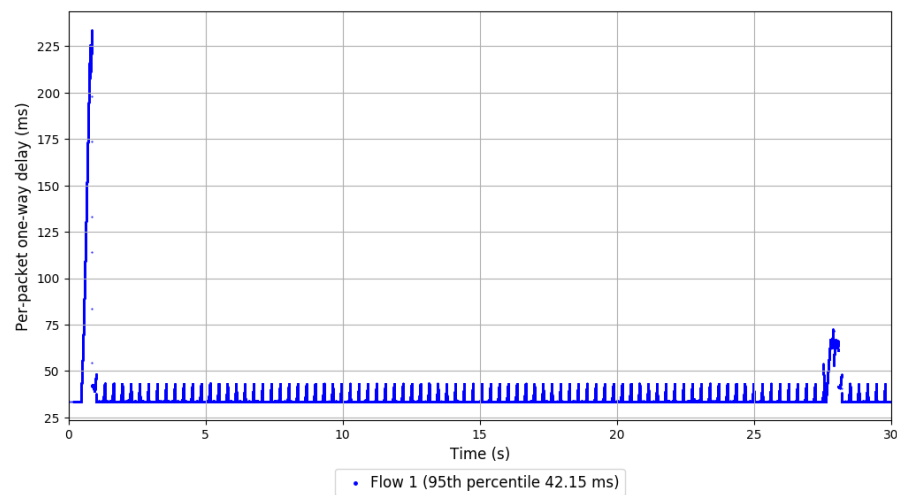
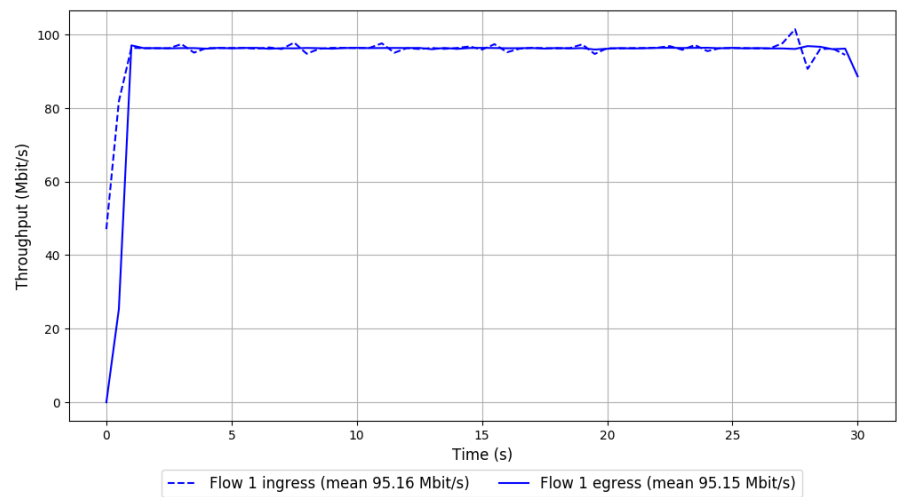
-- Flow 1:

Average throughput: 95.15 Mbit/s

95th percentile per-packet one-way delay: 42.147 ms

Loss rate: 0.22%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-03-27 08:25:42

End at: 2019-03-27 08:26:12

Local clock offset: 2.647 ms

Remote clock offset: 2.061 ms

Below is generated by plot.py at 2019-03-27 08:39:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.11 Mbit/s

95th percentile per-packet one-way delay: 41.794 ms

Loss rate: 0.22%

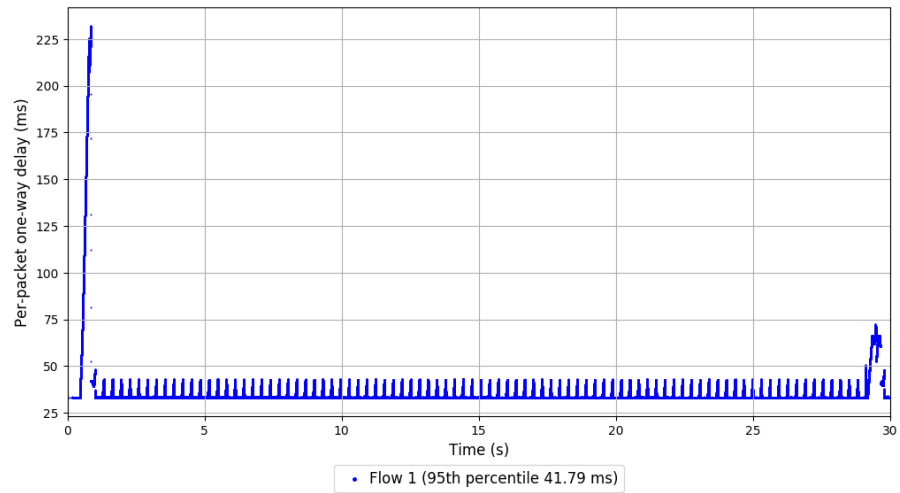
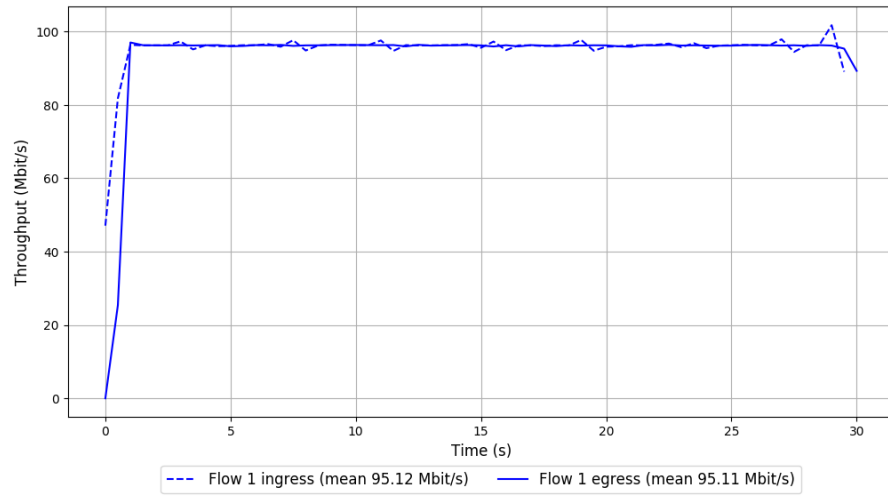
-- Flow 1:

Average throughput: 95.11 Mbit/s

95th percentile per-packet one-way delay: 41.794 ms

Loss rate: 0.22%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-03-27 06:32:15

End at: 2019-03-27 06:32:45

Local clock offset: 3.799 ms

Remote clock offset: 0.72 ms

Below is generated by plot.py at 2019-03-27 08:39:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.91 Mbit/s

95th percentile per-packet one-way delay: 39.853 ms

Loss rate: 0.22%

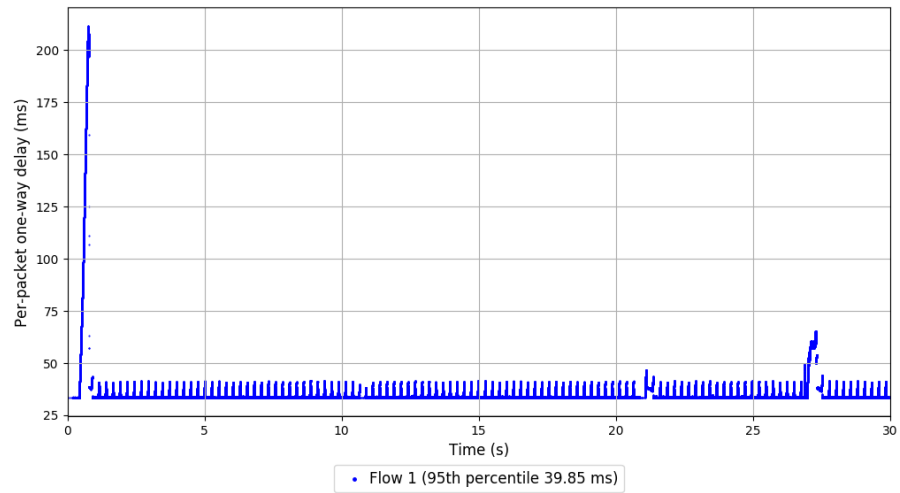
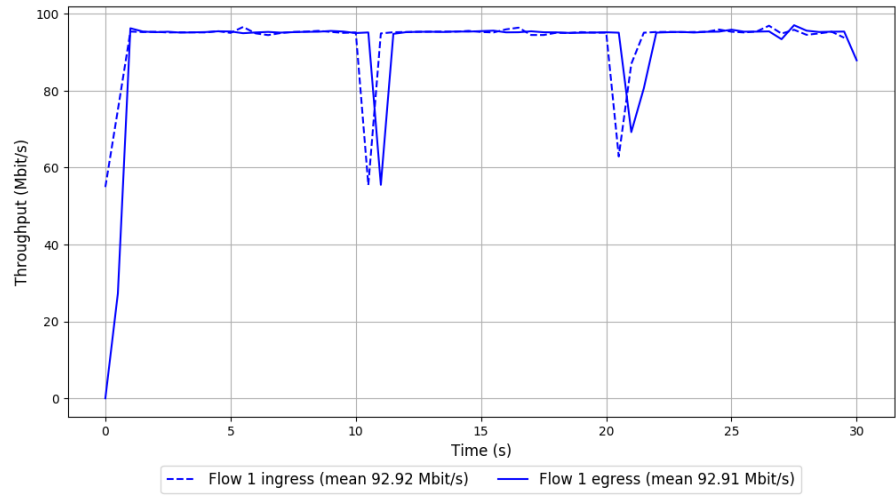
-- Flow 1:

Average throughput: 92.91 Mbit/s

95th percentile per-packet one-way delay: 39.853 ms

Loss rate: 0.22%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-03-27 06:56:52

End at: 2019-03-27 06:57:22

Local clock offset: 1.515 ms

Remote clock offset: 2.029 ms

Below is generated by plot.py at 2019-03-27 08:39:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.01 Mbit/s

95th percentile per-packet one-way delay: 39.979 ms

Loss rate: 0.33%

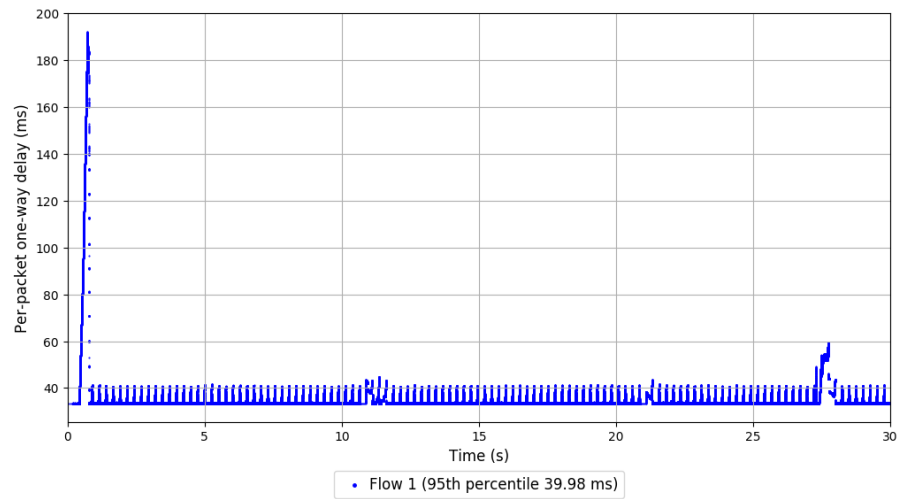
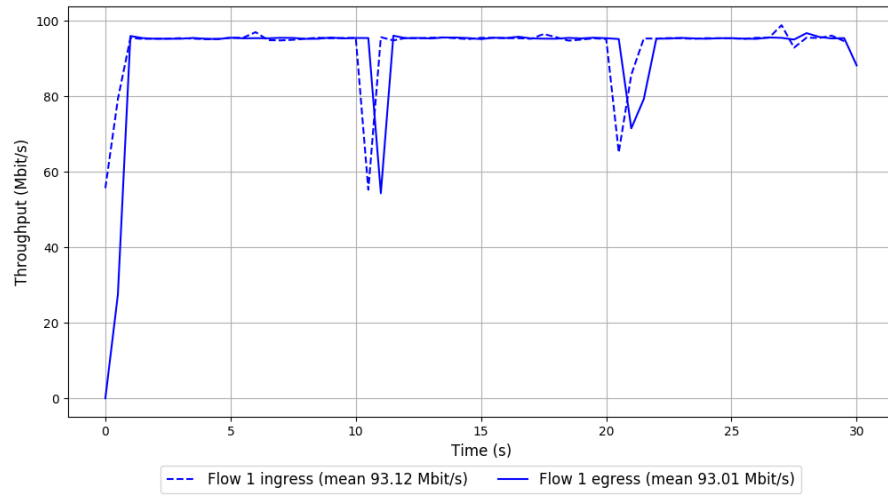
-- Flow 1:

Average throughput: 93.01 Mbit/s

95th percentile per-packet one-way delay: 39.979 ms

Loss rate: 0.33%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-03-27 07:21:22

End at: 2019-03-27 07:21:52

Local clock offset: 0.248 ms

Remote clock offset: 2.998 ms

Below is generated by plot.py at 2019-03-27 08:39:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.88 Mbit/s

95th percentile per-packet one-way delay: 40.210 ms

Loss rate: 0.22%

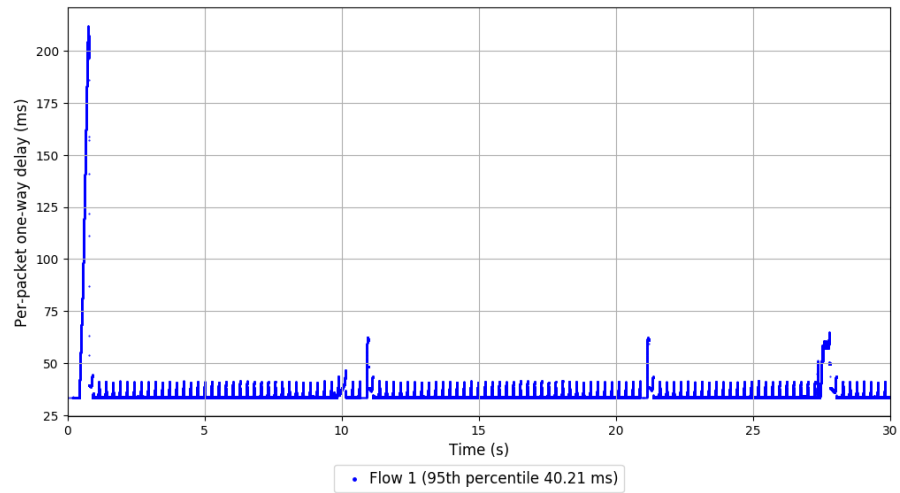
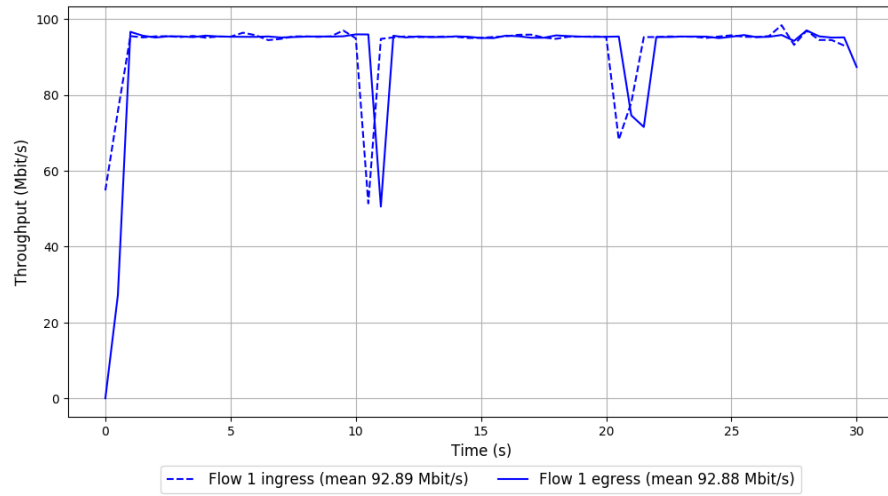
-- Flow 1:

Average throughput: 92.88 Mbit/s

95th percentile per-packet one-way delay: 40.210 ms

Loss rate: 0.22%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-03-27 07:45:51

End at: 2019-03-27 07:46:21

Local clock offset: 0.246 ms

Remote clock offset: 3.112 ms

Below is generated by plot.py at 2019-03-27 08:39:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.87 Mbit/s

95th percentile per-packet one-way delay: 39.405 ms

Loss rate: 0.22%

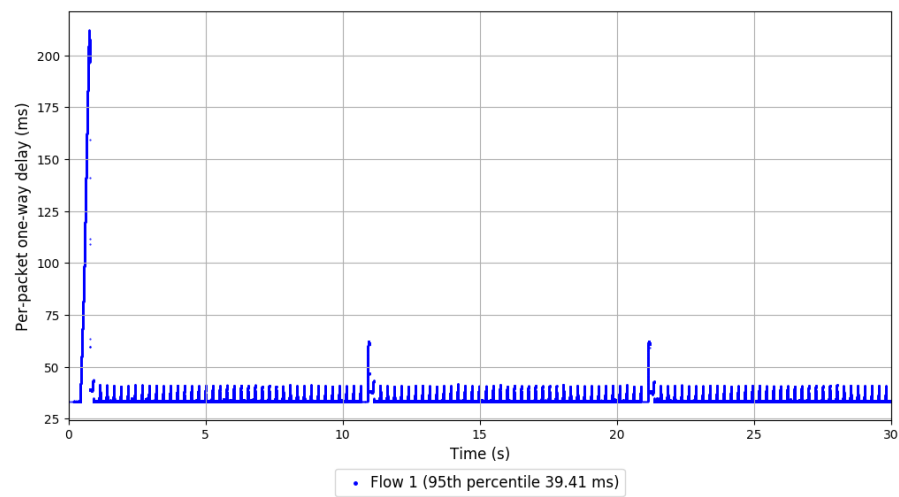
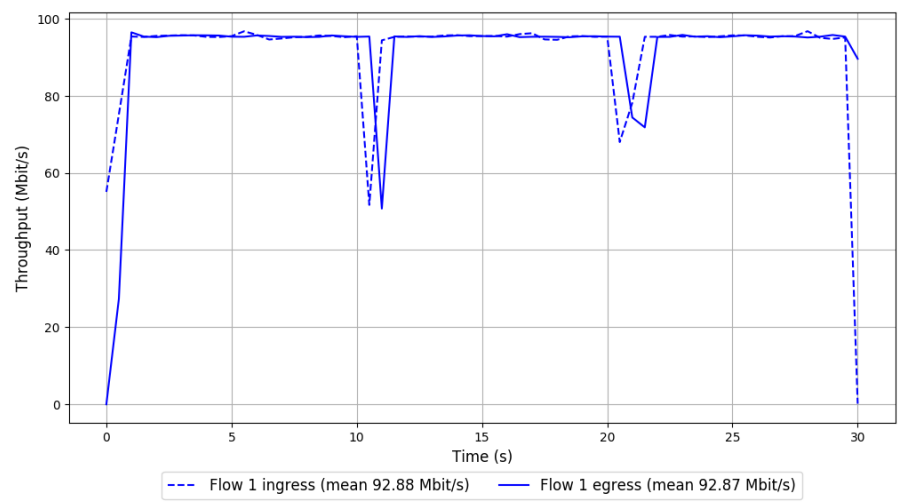
-- Flow 1:

Average throughput: 92.87 Mbit/s

95th percentile per-packet one-way delay: 39.405 ms

Loss rate: 0.22%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-03-27 08:10:30

End at: 2019-03-27 08:11:00

Local clock offset: 0.402 ms

Remote clock offset: 2.302 ms

Below is generated by plot.py at 2019-03-27 08:39:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.91 Mbit/s

95th percentile per-packet one-way delay: 39.825 ms

Loss rate: 0.24%

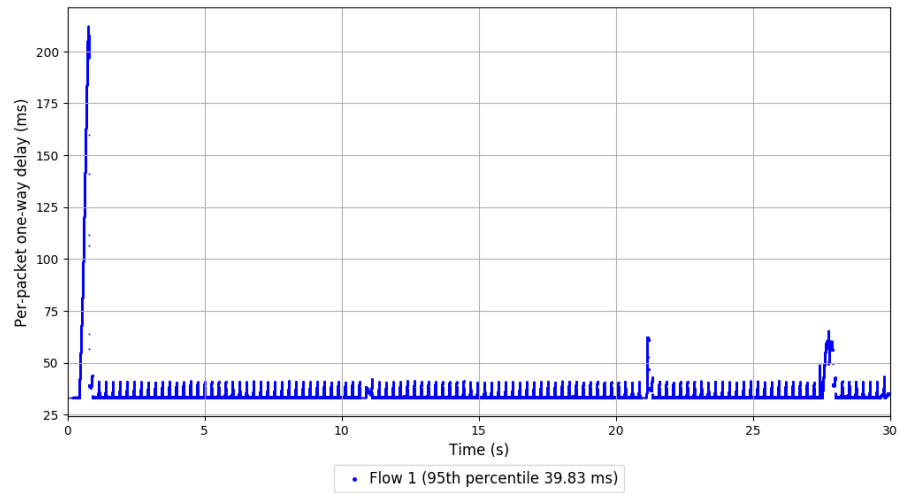
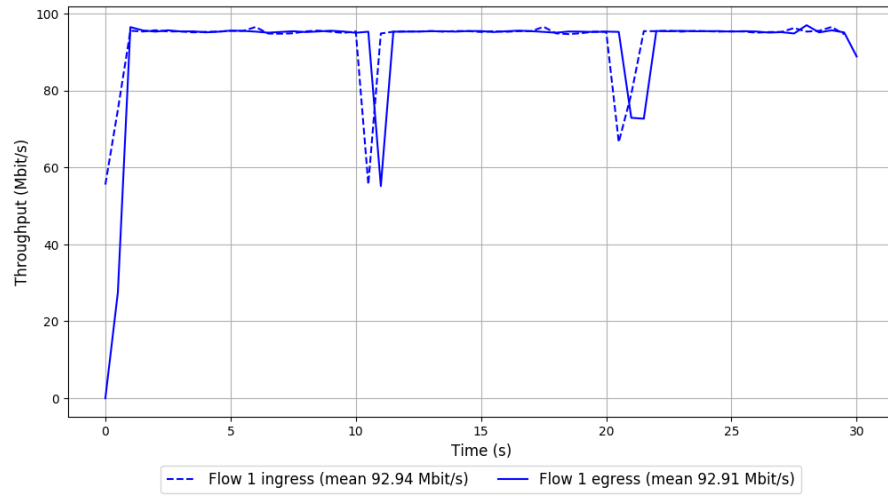
-- Flow 1:

Average throughput: 92.91 Mbit/s

95th percentile per-packet one-way delay: 39.825 ms

Loss rate: 0.24%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-03-27 06:52:08

End at: 2019-03-27 06:52:38

Local clock offset: 2.483 ms

Remote clock offset: 1.811 ms

Below is generated by plot.py at 2019-03-27 08:39:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.77 Mbit/s

95th percentile per-packet one-way delay: 38.346 ms

Loss rate: 0.23%

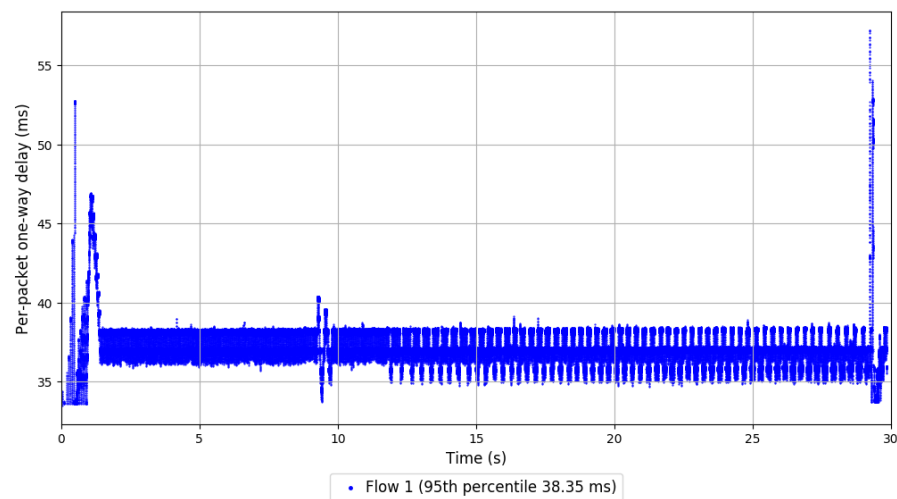
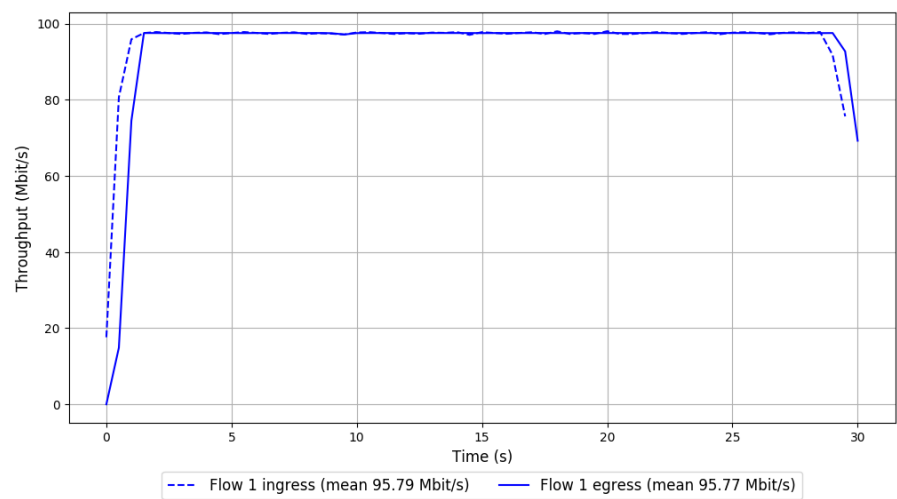
-- Flow 1:

Average throughput: 95.77 Mbit/s

95th percentile per-packet one-way delay: 38.346 ms

Loss rate: 0.23%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-03-27 07:16:40

End at: 2019-03-27 07:17:10

Local clock offset: 0.3 ms

Remote clock offset: 2.649 ms

Below is generated by plot.py at 2019-03-27 08:39:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.82 Mbit/s

95th percentile per-packet one-way delay: 38.359 ms

Loss rate: 0.23%

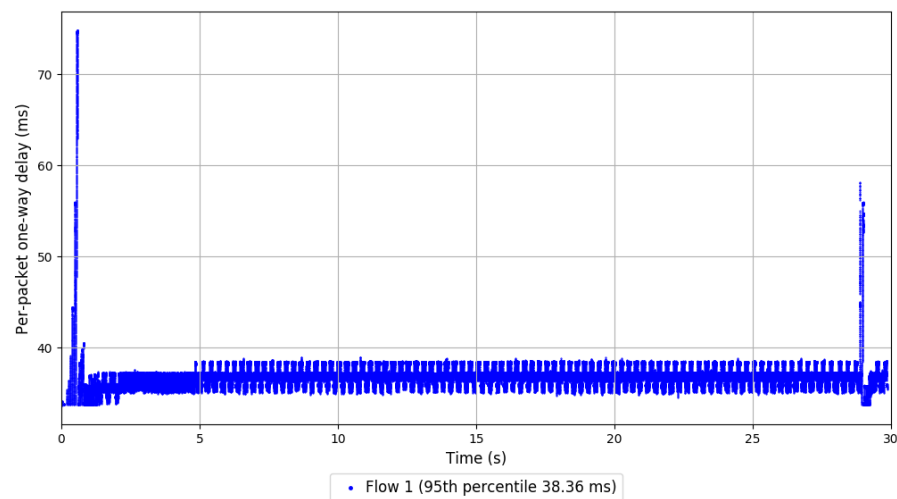
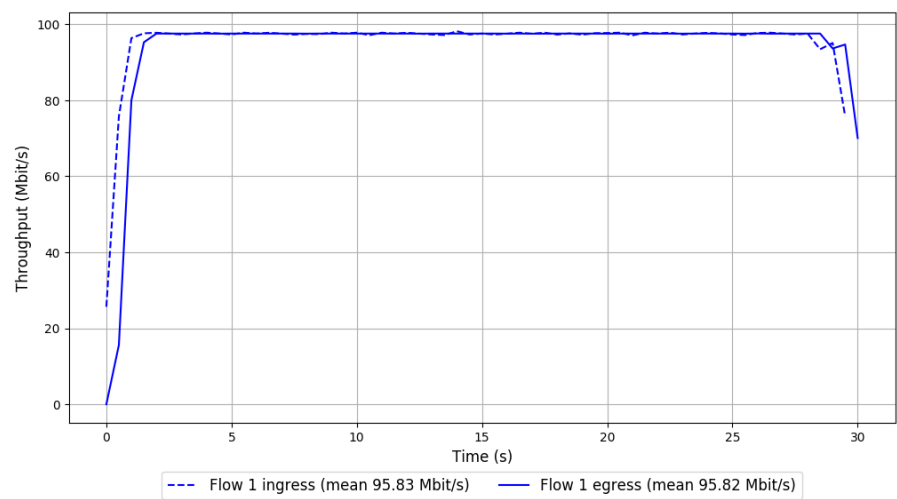
-- Flow 1:

Average throughput: 95.82 Mbit/s

95th percentile per-packet one-way delay: 38.359 ms

Loss rate: 0.23%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-03-27 07:41:10

End at: 2019-03-27 07:41:40

Local clock offset: 0.226 ms

Remote clock offset: 3.332 ms

Below is generated by plot.py at 2019-03-27 08:40:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.74 Mbit/s

95th percentile per-packet one-way delay: 38.053 ms

Loss rate: 0.22%

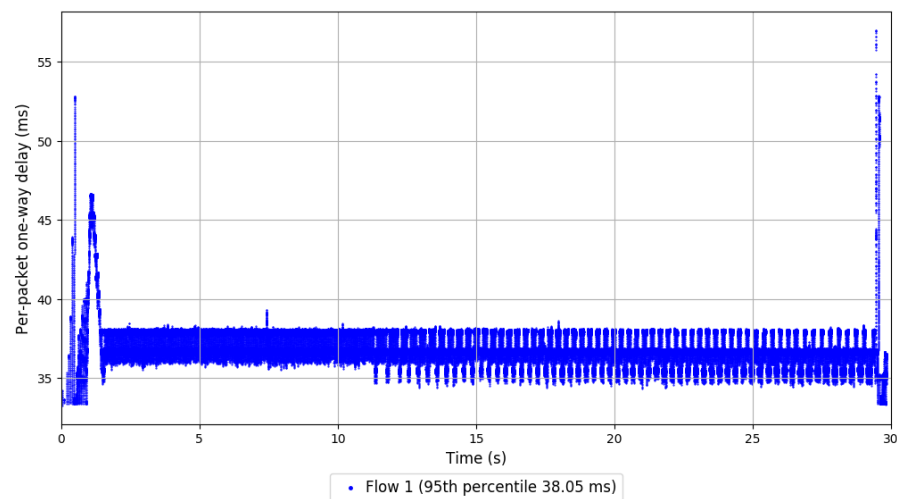
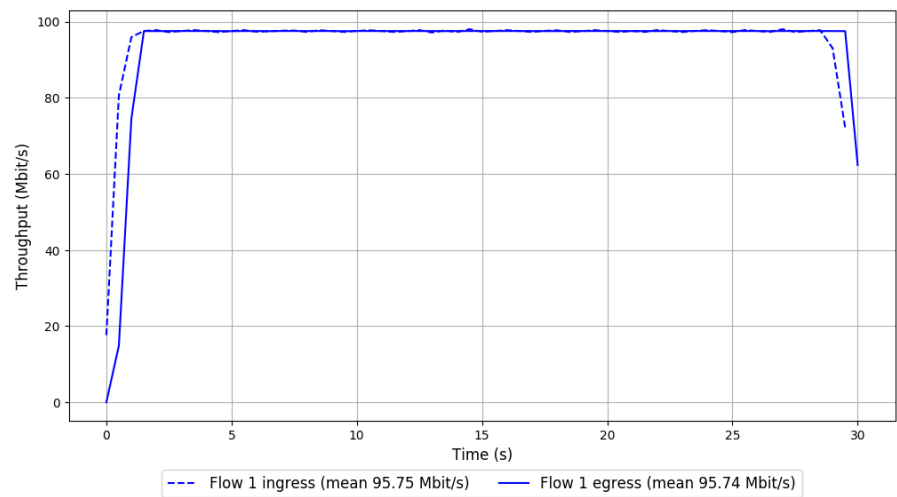
-- Flow 1:

Average throughput: 95.74 Mbit/s

95th percentile per-packet one-way delay: 38.053 ms

Loss rate: 0.22%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-03-27 08:05:49

End at: 2019-03-27 08:06:19

Local clock offset: 0.392 ms

Remote clock offset: 2.387 ms

Below is generated by plot.py at 2019-03-27 08:40:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.79 Mbit/s

95th percentile per-packet one-way delay: 38.096 ms

Loss rate: 0.23%

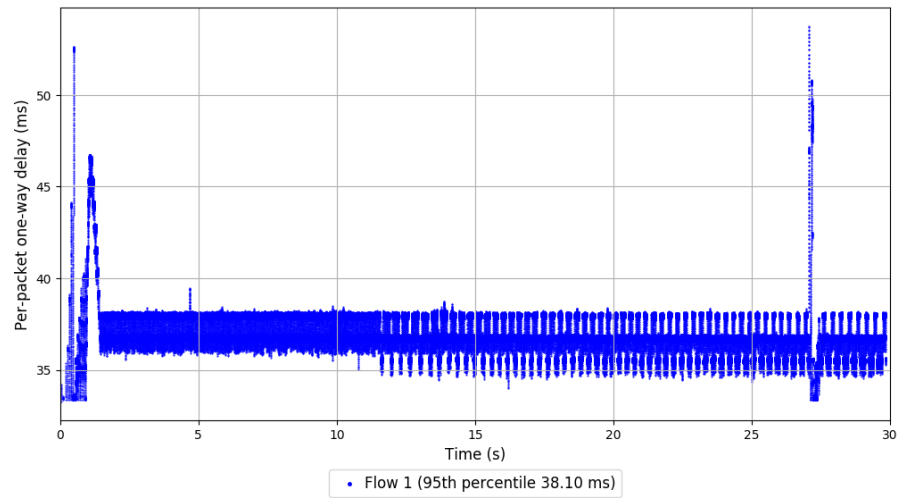
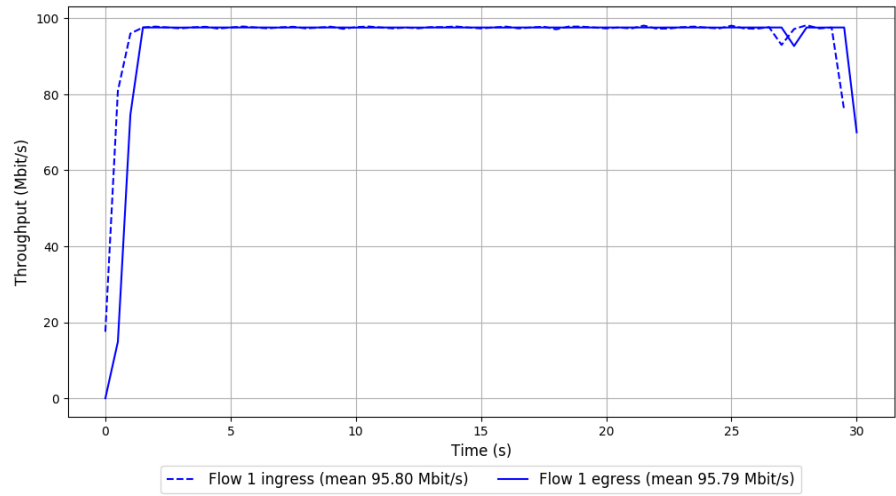
-- Flow 1:

Average throughput: 95.79 Mbit/s

95th percentile per-packet one-way delay: 38.096 ms

Loss rate: 0.23%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-03-27 08:30:20

End at: 2019-03-27 08:30:50

Local clock offset: 3.203 ms

Remote clock offset: 1.97 ms

Below is generated by plot.py at 2019-03-27 08:40:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.90 Mbit/s

95th percentile per-packet one-way delay: 37.907 ms

Loss rate: 0.22%

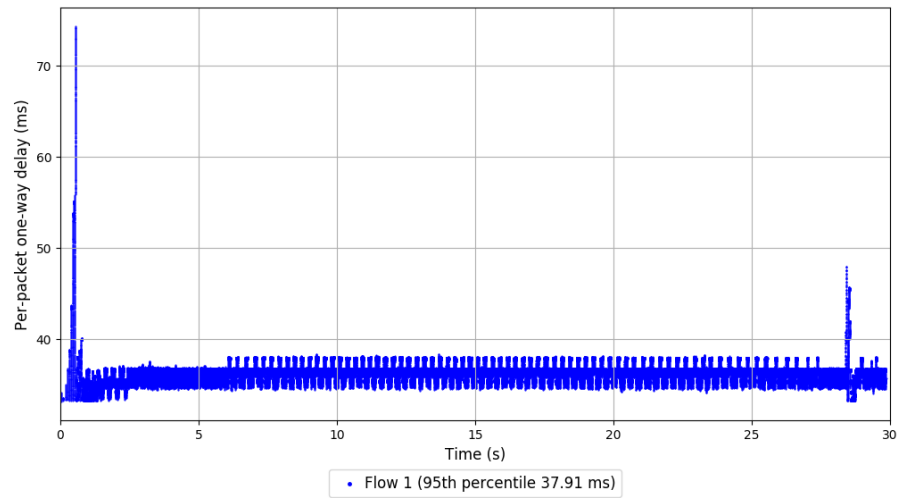
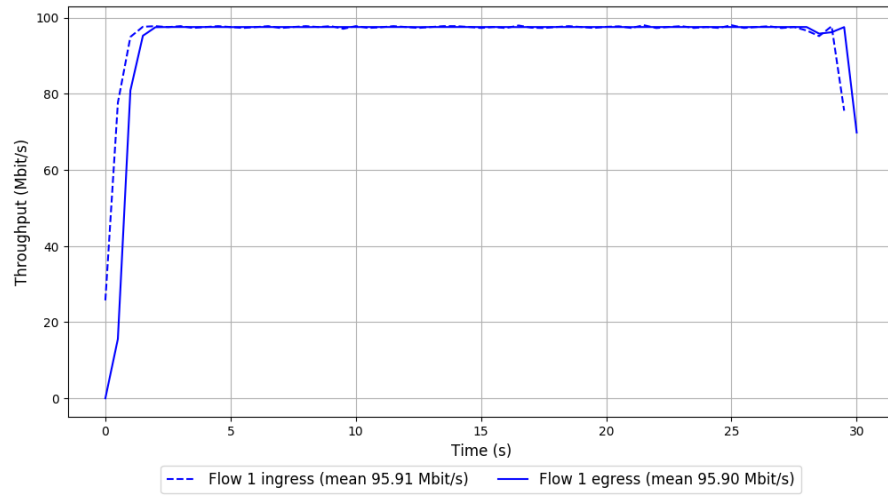
-- Flow 1:

Average throughput: 95.90 Mbit/s

95th percentile per-packet one-way delay: 37.907 ms

Loss rate: 0.22%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-03-27 06:34:35

End at: 2019-03-27 06:35:05

Local clock offset: 3.989 ms

Remote clock offset: 0.663 ms

Below is generated by plot.py at 2019-03-27 08:40:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.57 Mbit/s

95th percentile per-packet one-way delay: 40.969 ms

Loss rate: 0.24%

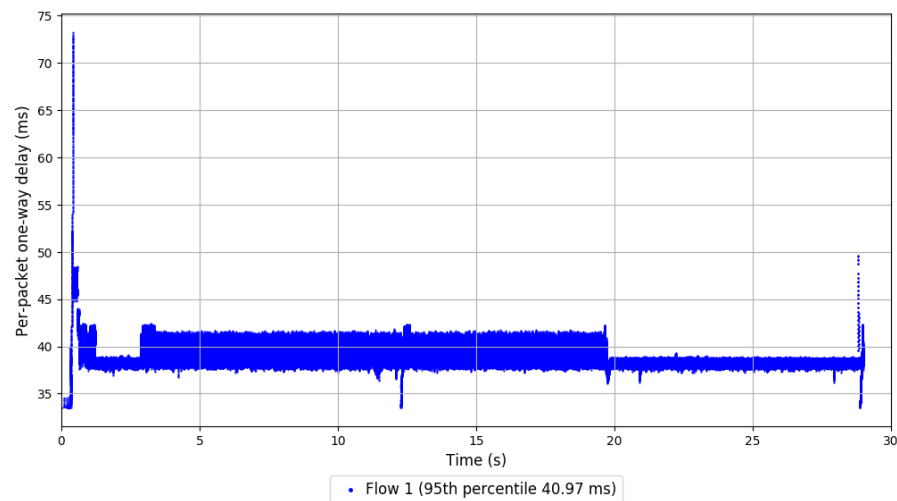
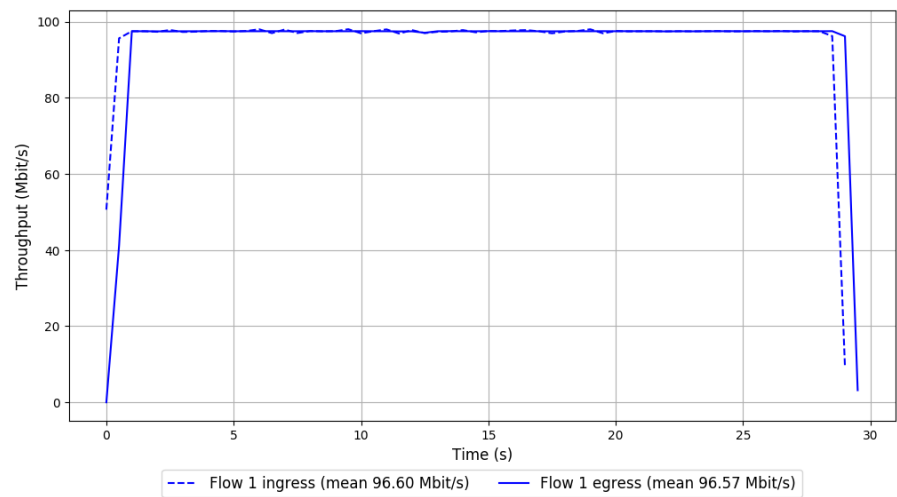
-- Flow 1:

Average throughput: 96.57 Mbit/s

95th percentile per-packet one-way delay: 40.969 ms

Loss rate: 0.24%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-03-27 06:59:13

End at: 2019-03-27 06:59:44

Local clock offset: 1.233 ms

Remote clock offset: 2.104 ms

Below is generated by plot.py at 2019-03-27 08:40:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.56 Mbit/s

95th percentile per-packet one-way delay: 38.764 ms

Loss rate: 0.25%

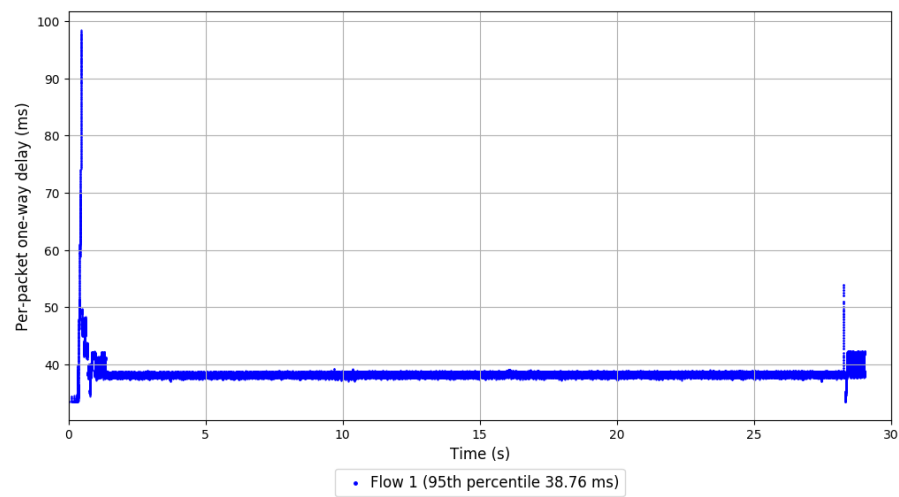
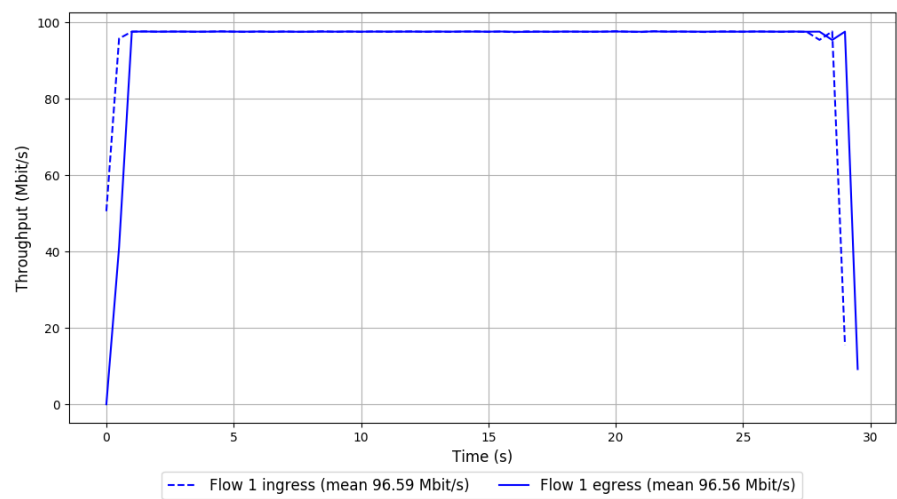
-- Flow 1:

Average throughput: 96.56 Mbit/s

95th percentile per-packet one-way delay: 38.764 ms

Loss rate: 0.25%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-03-27 07:23:42

End at: 2019-03-27 07:24:12

Local clock offset: 0.232 ms

Remote clock offset: 3.079 ms

Below is generated by plot.py at 2019-03-27 08:40:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.56 Mbit/s

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

Loss rate: 0.24%

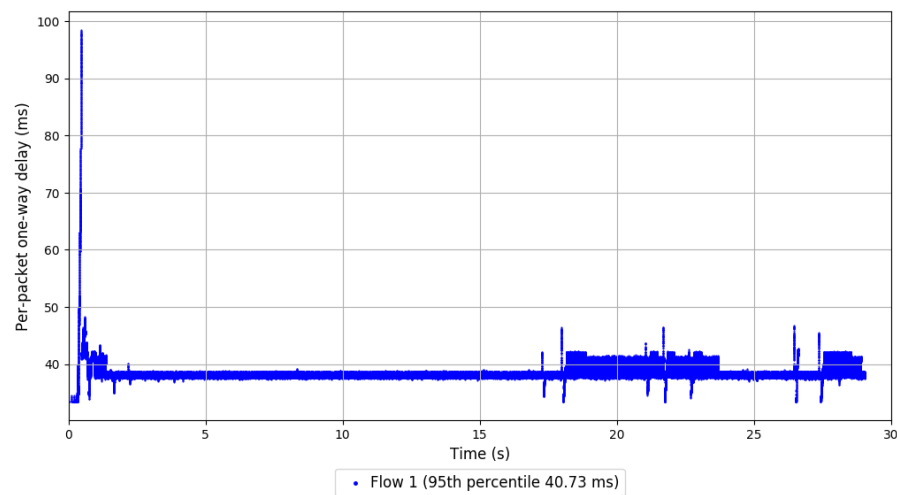
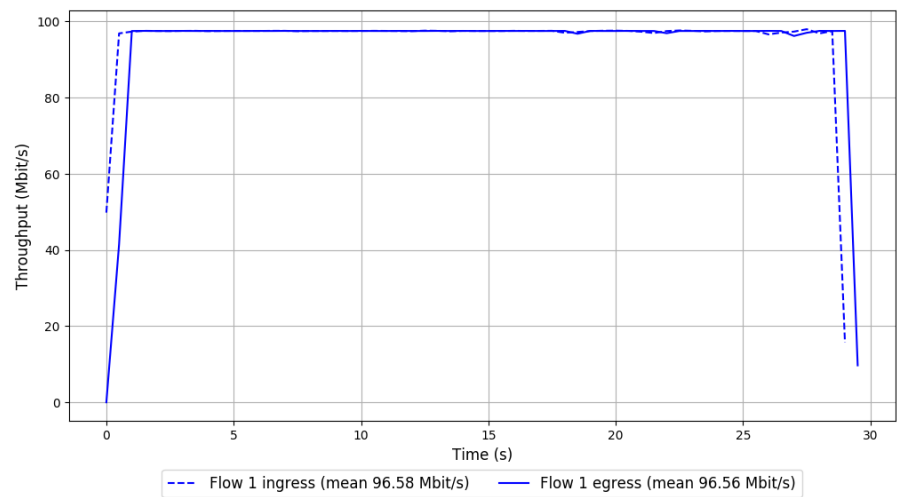
-- Flow 1:

Average throughput: 96.56 Mbit/s

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

Loss rate: 0.24%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-03-27 07:48:11

End at: 2019-03-27 07:48:41

Local clock offset: 0.271 ms

Remote clock offset: 2.943 ms

Below is generated by plot.py at 2019-03-27 08:40:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.90 Mbit/s

95th percentile per-packet one-way delay: 38.681 ms

Loss rate: 0.25%

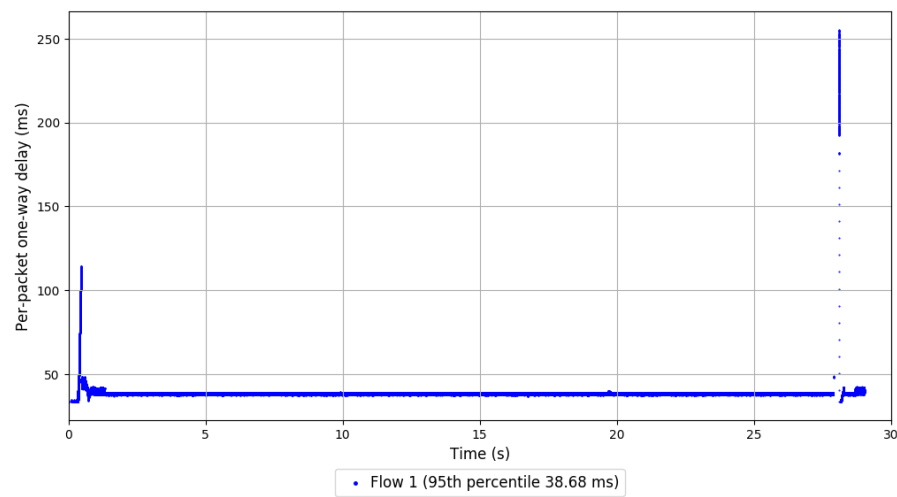
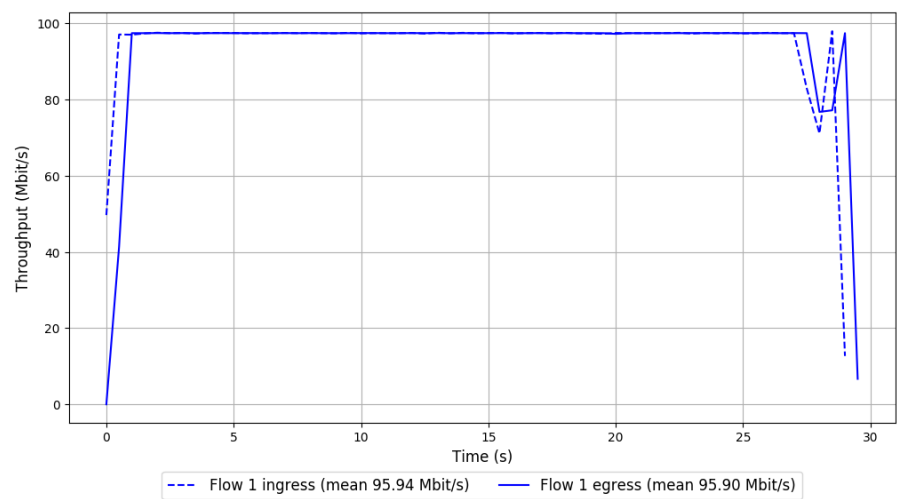
-- Flow 1:

Average throughput: 95.90 Mbit/s

95th percentile per-packet one-way delay: 38.681 ms

Loss rate: 0.25%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-03-27 08:12:51

End at: 2019-03-27 08:13:21

Local clock offset: 0.424 ms

Remote clock offset: 2.055 ms

Below is generated by plot.py at 2019-03-27 08:40:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.59 Mbit/s

95th percentile per-packet one-way delay: 38.752 ms

Loss rate: 0.24%

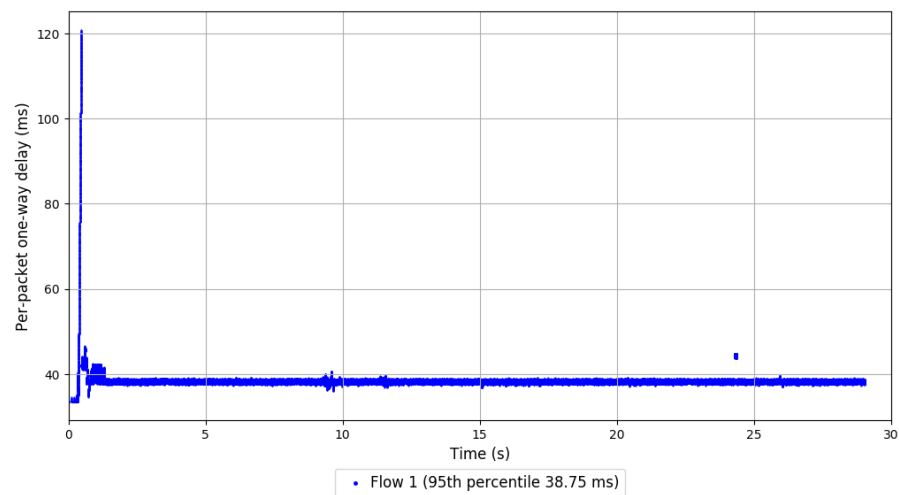
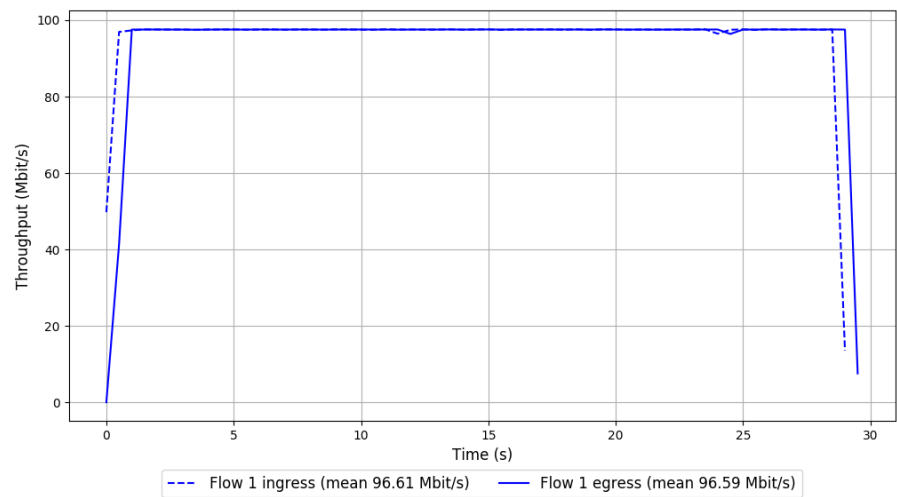
-- Flow 1:

Average throughput: 96.59 Mbit/s

95th percentile per-packet one-way delay: 38.752 ms

Loss rate: 0.24%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-03-27 06:43:53

End at: 2019-03-27 06:44:23

Local clock offset: 4.679 ms

Remote clock offset: 1.312 ms

Below is generated by plot.py at 2019-03-27 08:41:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.10 Mbit/s

95th percentile per-packet one-way delay: 37.840 ms

Loss rate: 0.23%

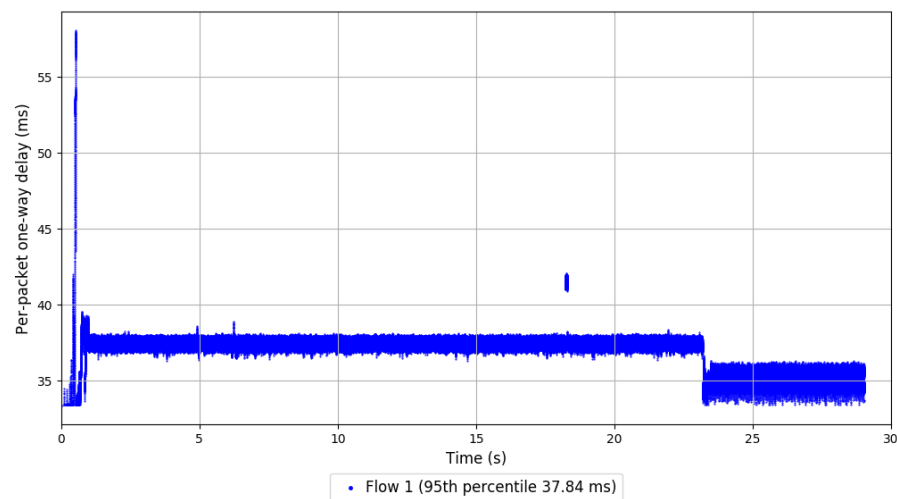
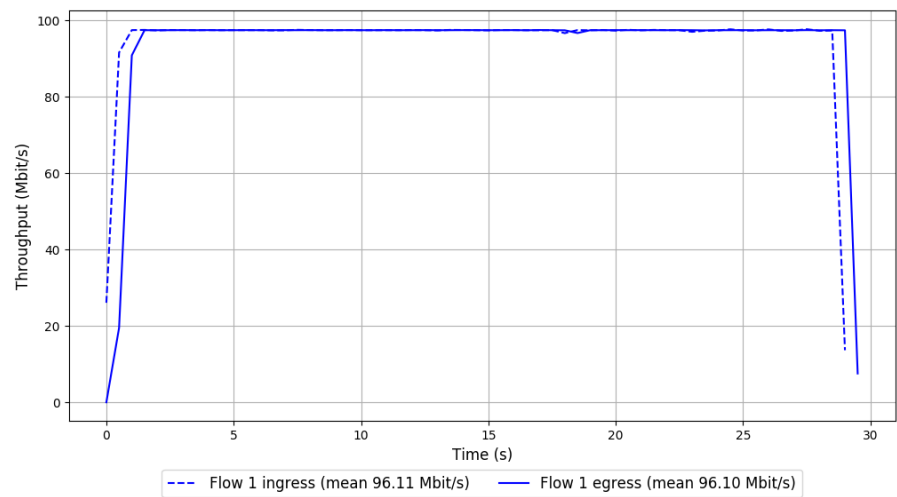
-- Flow 1:

Average throughput: 96.10 Mbit/s

95th percentile per-packet one-way delay: 37.840 ms

Loss rate: 0.23%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-03-27 07:08:29

End at: 2019-03-27 07:08:59

Local clock offset: 0.552 ms

Remote clock offset: 2.507 ms

Below is generated by plot.py at 2019-03-27 08:41:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.17 Mbit/s

95th percentile per-packet one-way delay: 38.632 ms

Loss rate: 0.24%

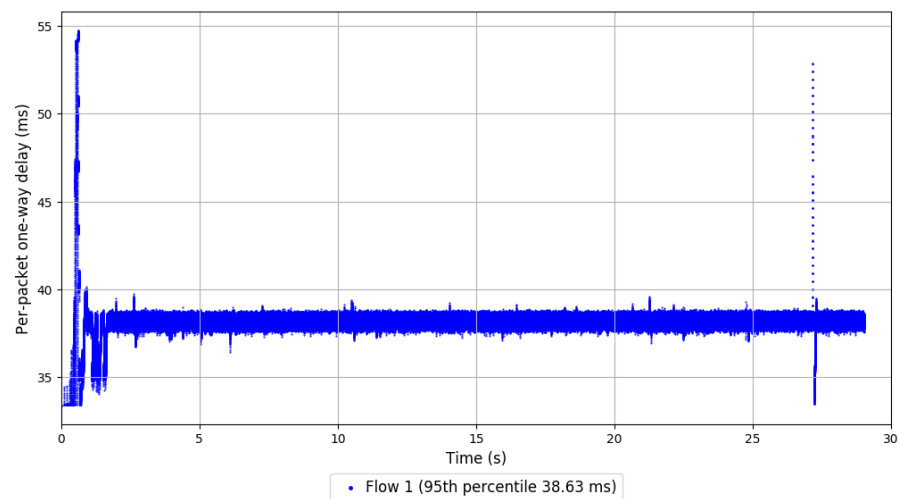
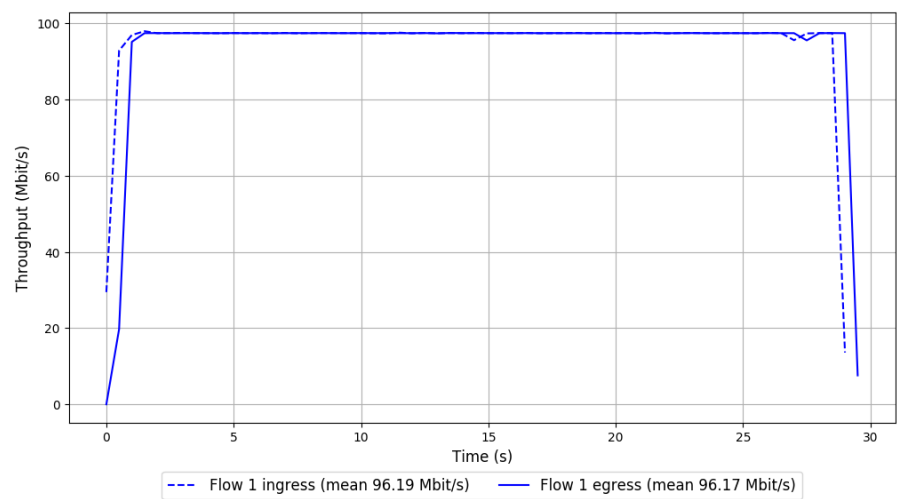
-- Flow 1:

Average throughput: 96.17 Mbit/s

95th percentile per-packet one-way delay: 38.632 ms

Loss rate: 0.24%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-03-27 07:32:58

End at: 2019-03-27 07:33:28

Local clock offset: 0.202 ms

Remote clock offset: 3.268 ms

Below is generated by plot.py at 2019-03-27 08:41:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.02 Mbit/s

95th percentile per-packet one-way delay: 37.940 ms

Loss rate: 0.24%

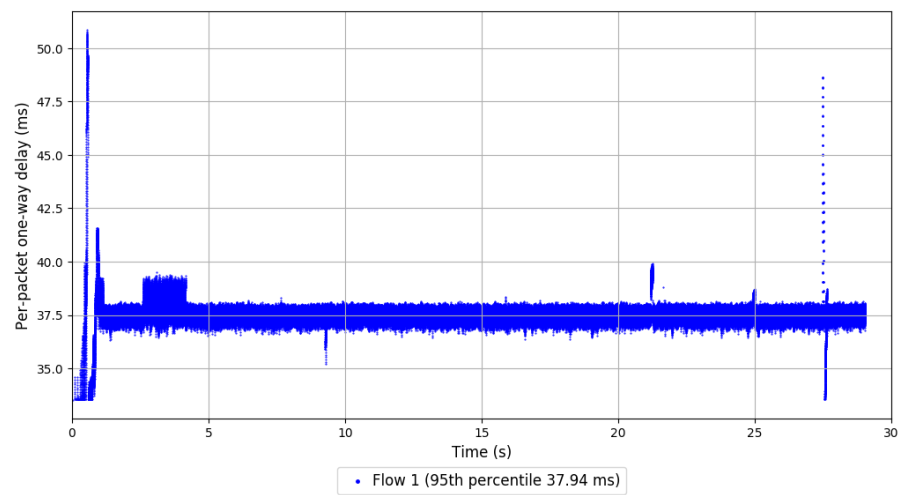
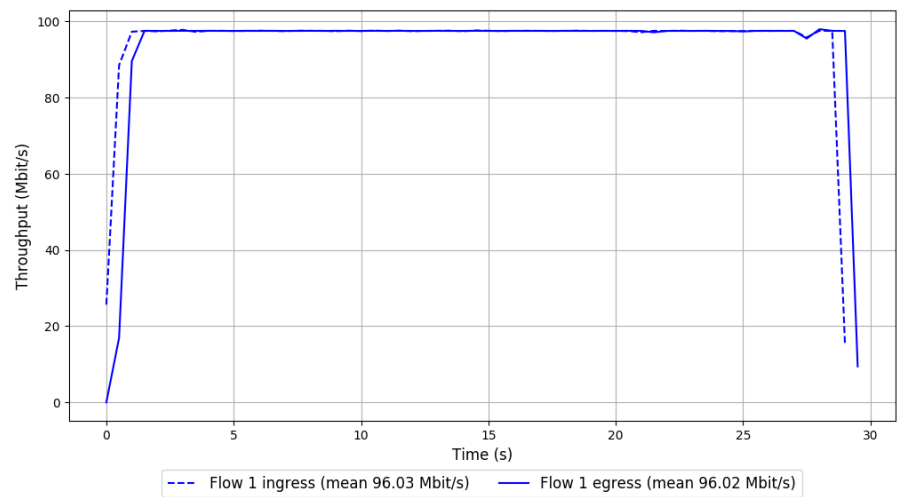
-- Flow 1:

Average throughput: 96.02 Mbit/s

95th percentile per-packet one-way delay: 37.940 ms

Loss rate: 0.24%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-03-27 07:57:38

End at: 2019-03-27 07:58:08

Local clock offset: 0.356 ms

Remote clock offset: 2.743 ms

Below is generated by plot.py at 2019-03-27 08:41:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.16 Mbit/s

95th percentile per-packet one-way delay: 38.382 ms

Loss rate: 0.24%

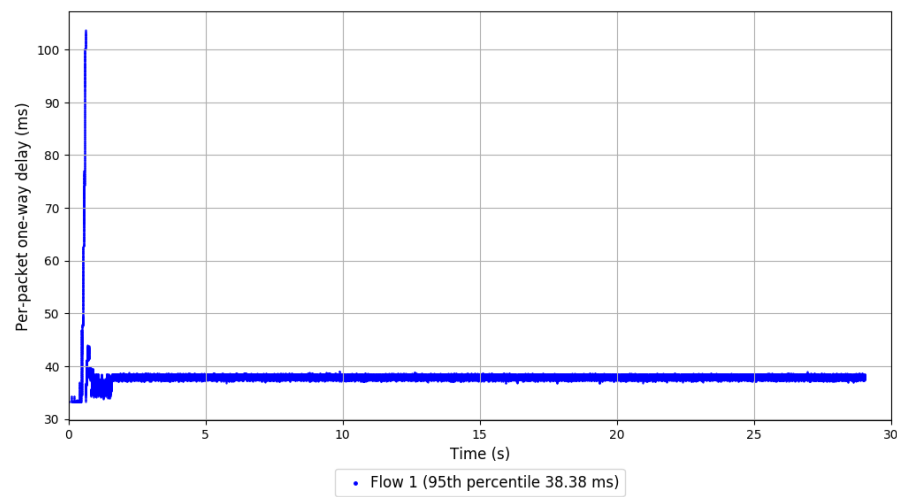
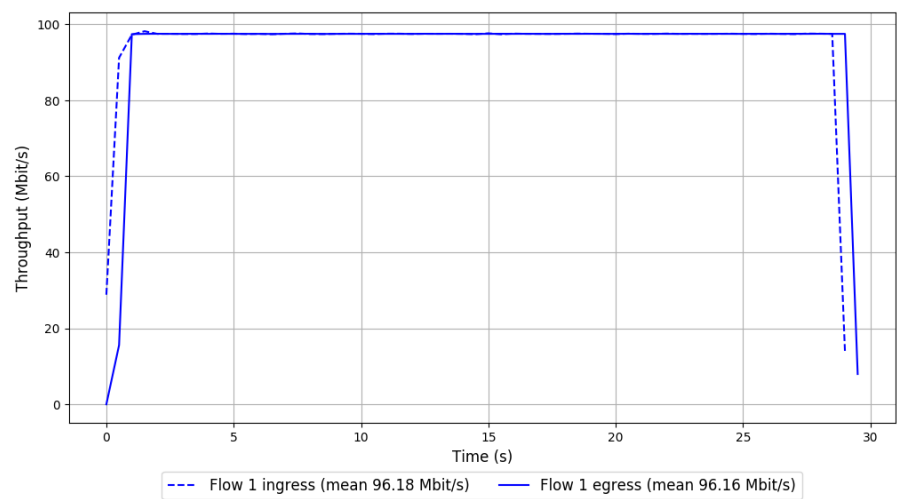
-- Flow 1:

Average throughput: 96.16 Mbit/s

95th percentile per-packet one-way delay: 38.382 ms

Loss rate: 0.24%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-03-27 08:22:08

End at: 2019-03-27 08:22:38

Local clock offset: 2.058 ms

Remote clock offset: 2.067 ms

Below is generated by plot.py at 2019-03-27 08:41:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.12 Mbit/s

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

Loss rate: 0.24%

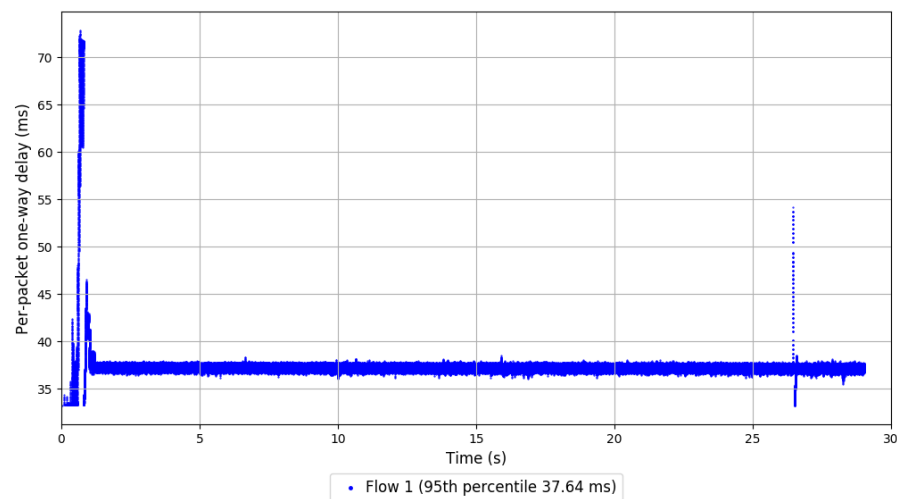
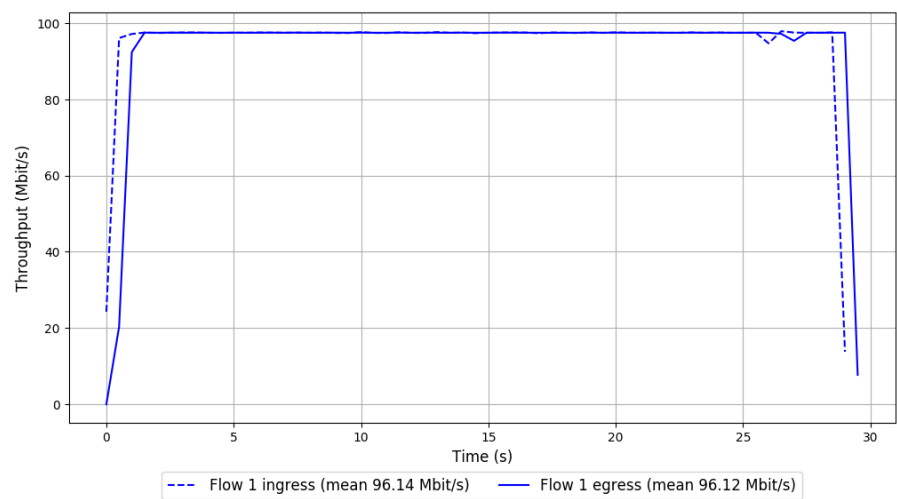
-- Flow 1:

Average throughput: 96.12 Mbit/s

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

Loss rate: 0.24%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-03-27 06:45:04

End at: 2019-03-27 06:45:34

Local clock offset: 4.751 ms

Remote clock offset: 1.412 ms

Below is generated by plot.py at 2019-03-27 08:41:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.10 Mbit/s

95th percentile per-packet one-way delay: 38.251 ms

Loss rate: 0.24%

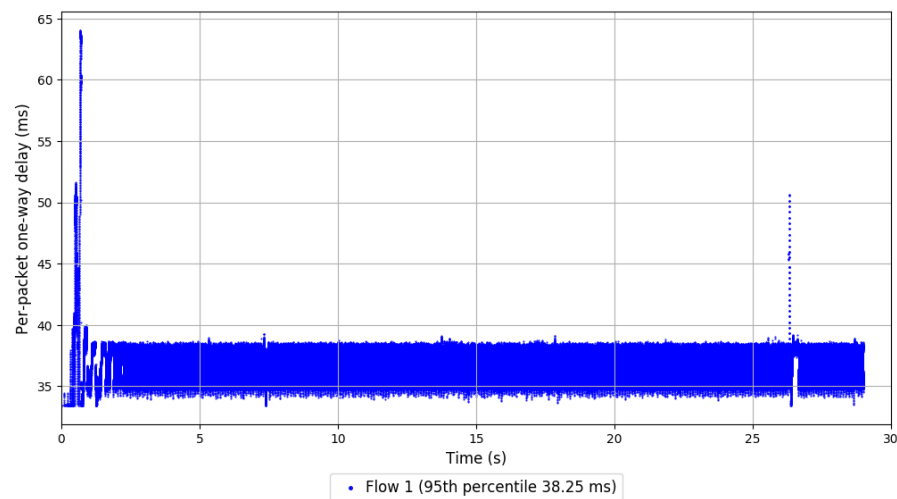
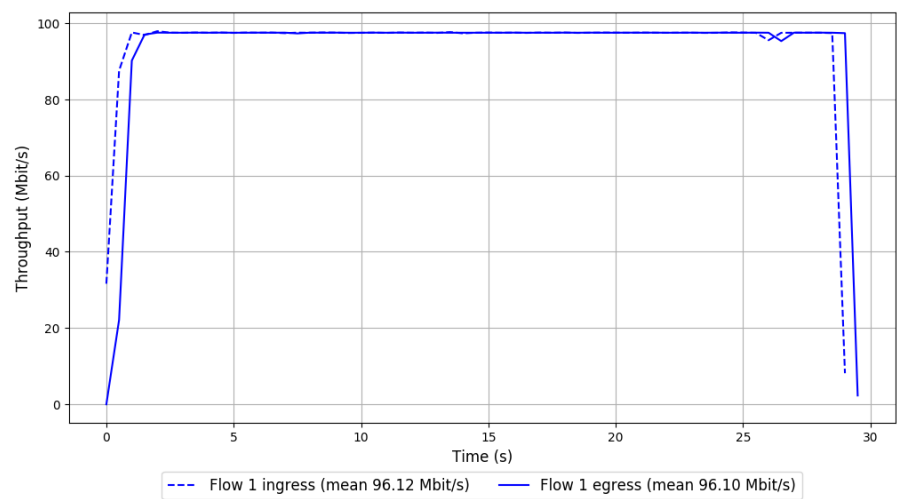
-- Flow 1:

Average throughput: 96.10 Mbit/s

95th percentile per-packet one-way delay: 38.251 ms

Loss rate: 0.24%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-03-27 07:09:39

End at: 2019-03-27 07:10:09

Local clock offset: 0.468 ms

Remote clock offset: 2.546 ms

Below is generated by plot.py at 2019-03-27 08:41:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.17 Mbit/s

95th percentile per-packet one-way delay: 38.352 ms

Loss rate: 0.24%

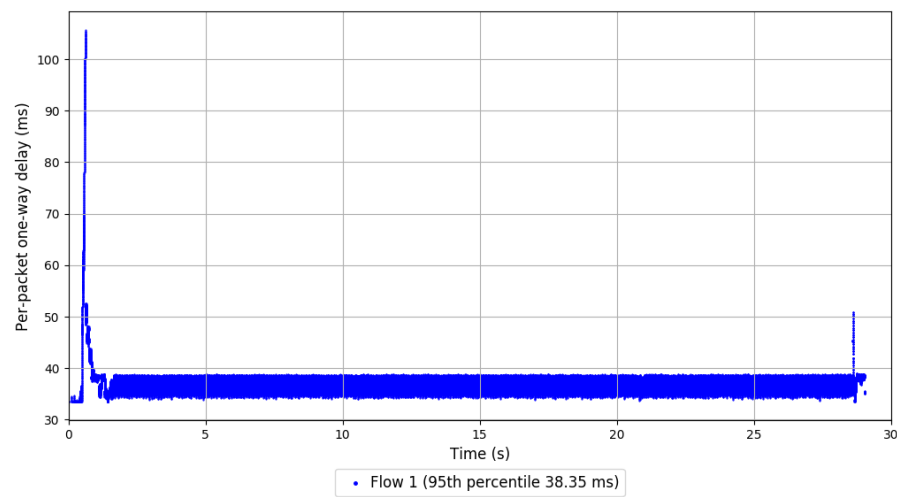
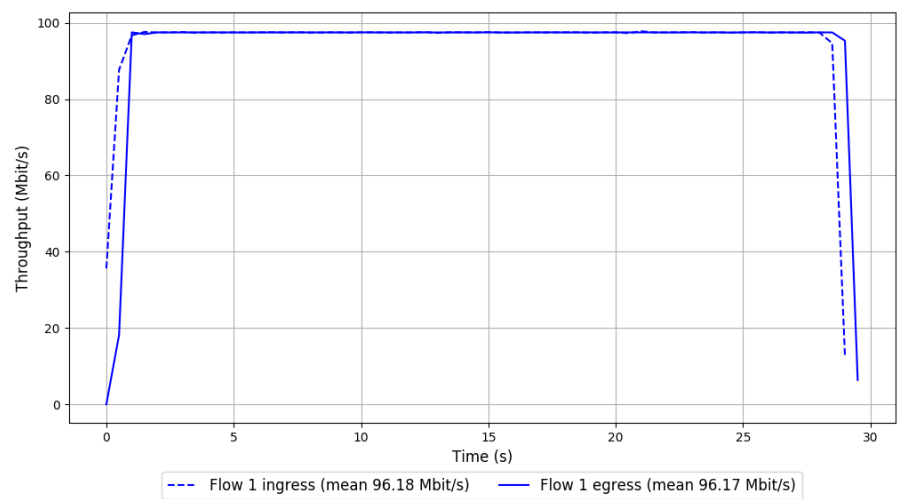
-- Flow 1:

Average throughput: 96.17 Mbit/s

95th percentile per-packet one-way delay: 38.352 ms

Loss rate: 0.24%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-03-27 07:34:08

End at: 2019-03-27 07:34:38

Local clock offset: 0.2 ms

Remote clock offset: 3.471 ms

Below is generated by plot.py at 2019-03-27 08:41:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.86 Mbit/s

95th percentile per-packet one-way delay: 37.841 ms

Loss rate: 0.21%

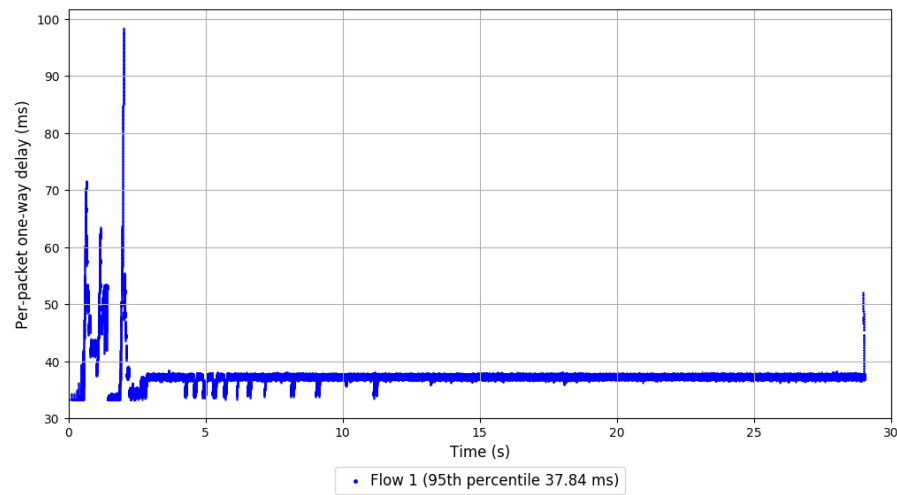
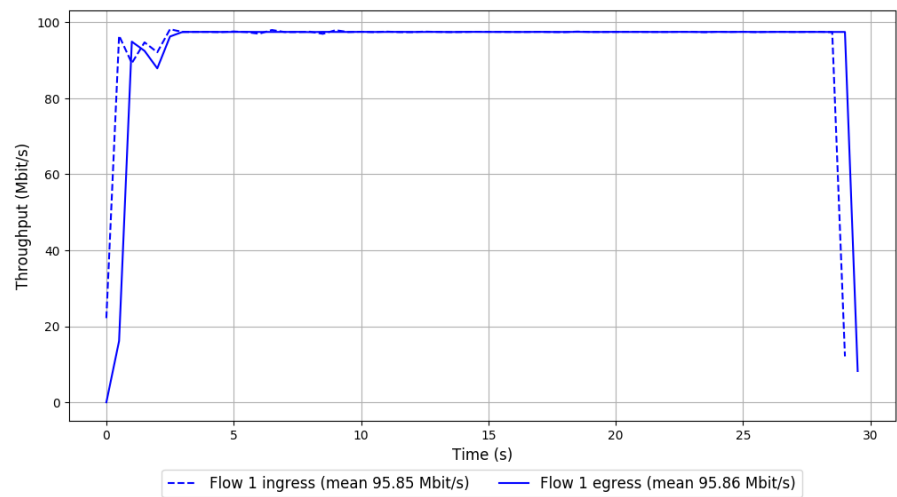
-- Flow 1:

Average throughput: 95.86 Mbit/s

95th percentile per-packet one-way delay: 37.841 ms

Loss rate: 0.21%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-03-27 07:58:48

End at: 2019-03-27 07:59:18

Local clock offset: 0.357 ms

Remote clock offset: 2.66 ms

Below is generated by plot.py at 2019-03-27 08:42:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.33 Mbit/s

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

Loss rate: 0.24%

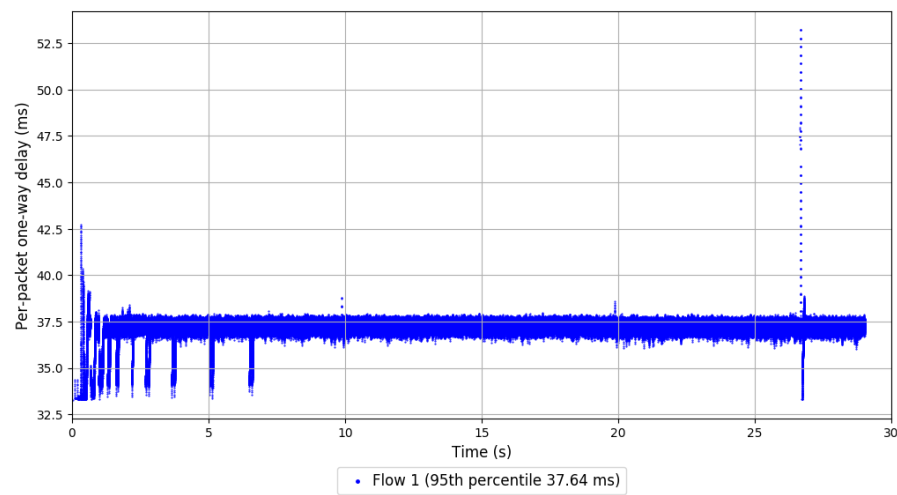
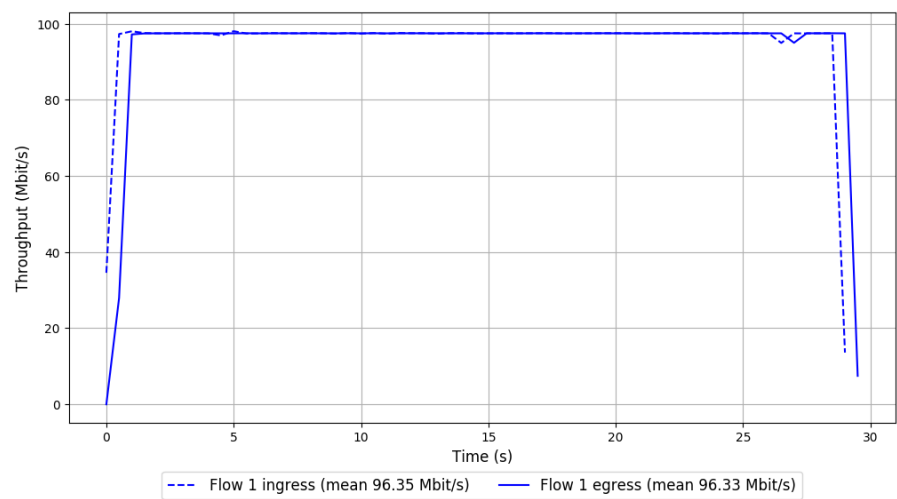
-- Flow 1:

Average throughput: 96.33 Mbit/s

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

Loss rate: 0.24%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-03-27 08:23:18

End at: 2019-03-27 08:23:48

Local clock offset: 2.285 ms

Remote clock offset: 2.086 ms

Below is generated by plot.py at 2019-03-27 08:42:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.82 Mbit/s

95th percentile per-packet one-way delay: 37.530 ms

Loss rate: 0.24%

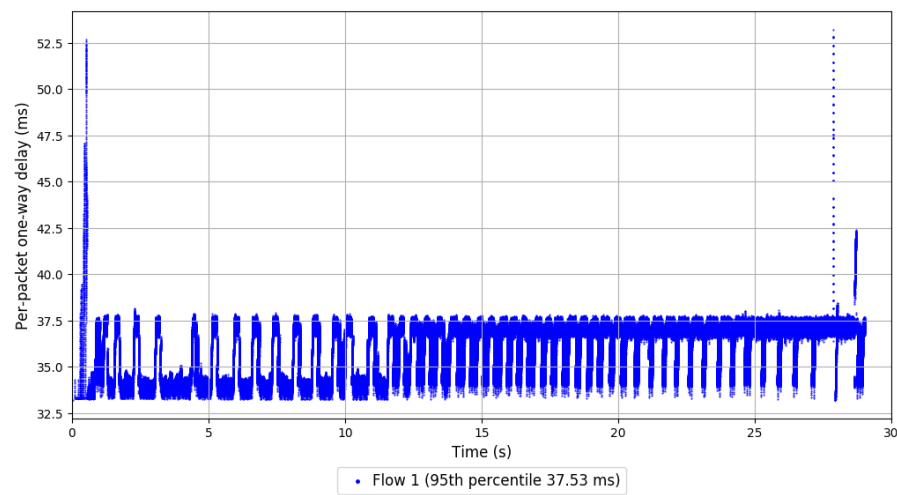
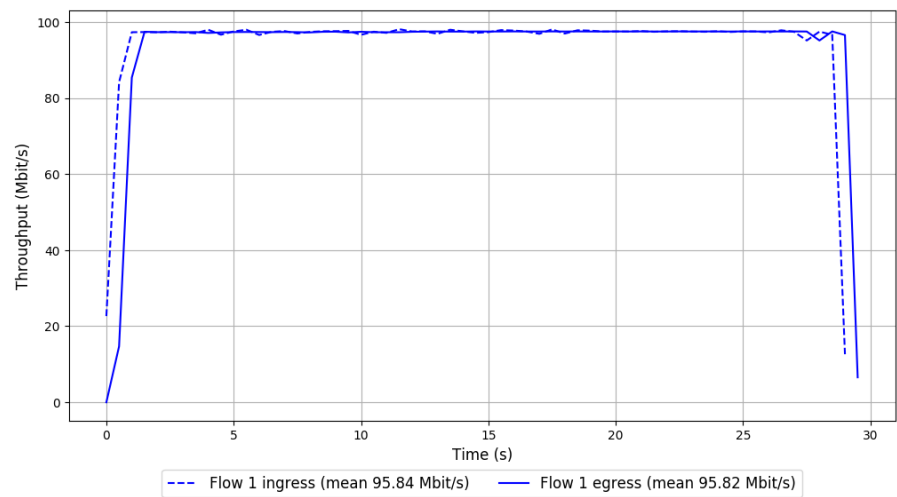
-- Flow 1:

Average throughput: 95.82 Mbit/s

95th percentile per-packet one-way delay: 37.530 ms

Loss rate: 0.24%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-03-27 06:38:02

End at: 2019-03-27 06:38:32

Local clock offset: 4.265 ms

Remote clock offset: 1.007 ms

Below is generated by plot.py at 2019-03-27 08:42:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.58 Mbit/s

95th percentile per-packet one-way delay: 41.768 ms

Loss rate: 0.99%

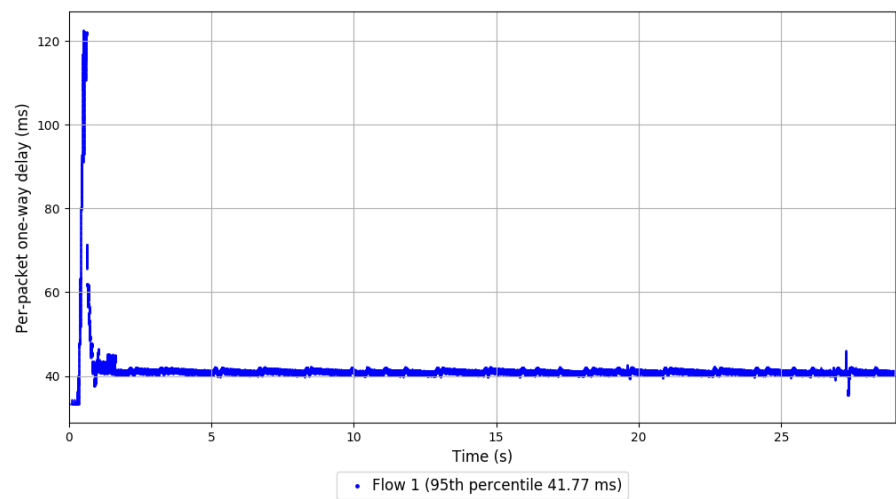
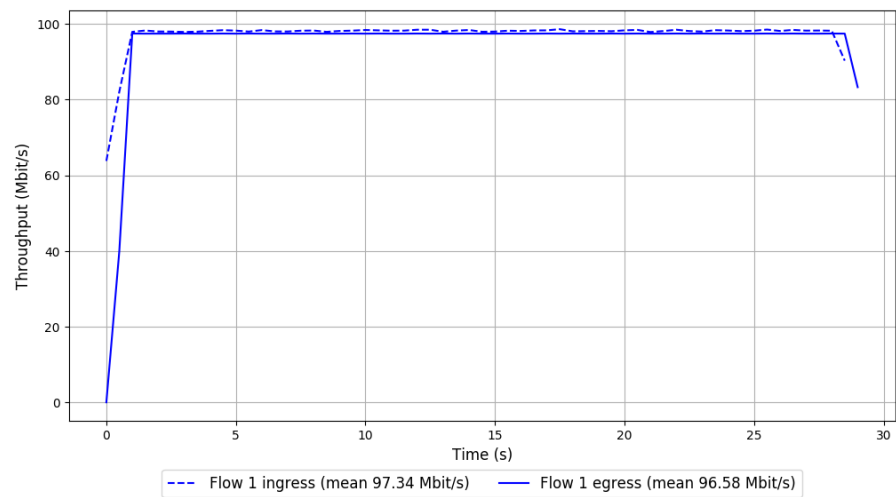
-- Flow 1:

Average throughput: 96.58 Mbit/s

95th percentile per-packet one-way delay: 41.768 ms

Loss rate: 0.99%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-03-27 07:02:40

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

Local clock offset: 0.896 ms

Remote clock offset: 2.249 ms

Below is generated by plot.py at 2019-03-27 08:42:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.59 Mbit/s

95th percentile per-packet one-way delay: 41.903 ms

Loss rate: 0.81%

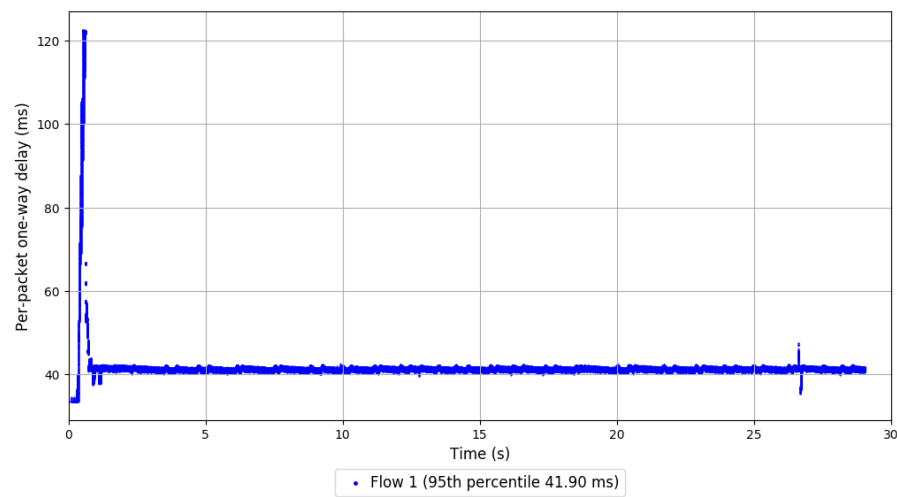
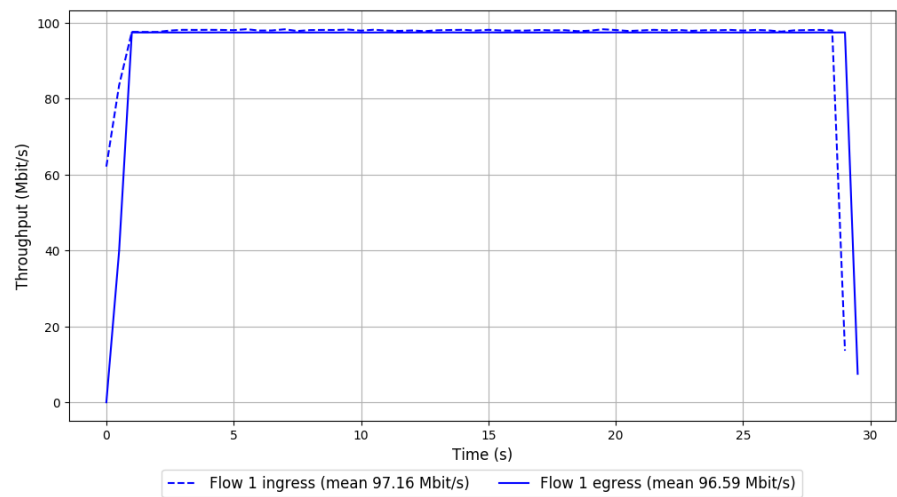
-- Flow 1:

Average throughput: 96.59 Mbit/s

95th percentile per-packet one-way delay: 41.903 ms

Loss rate: 0.81%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-03-27 07:27:08

End at: 2019-03-27 07:27:38

Local clock offset: 0.229 ms

Remote clock offset: 3.255 ms

Below is generated by plot.py at 2019-03-27 08:42:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.58 Mbit/s

95th percentile per-packet one-way delay: 41.804 ms

Loss rate: 0.82%

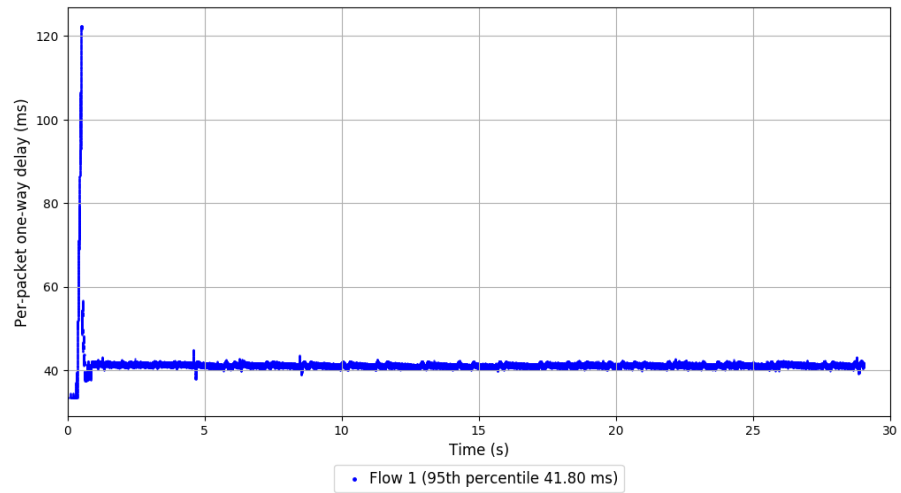
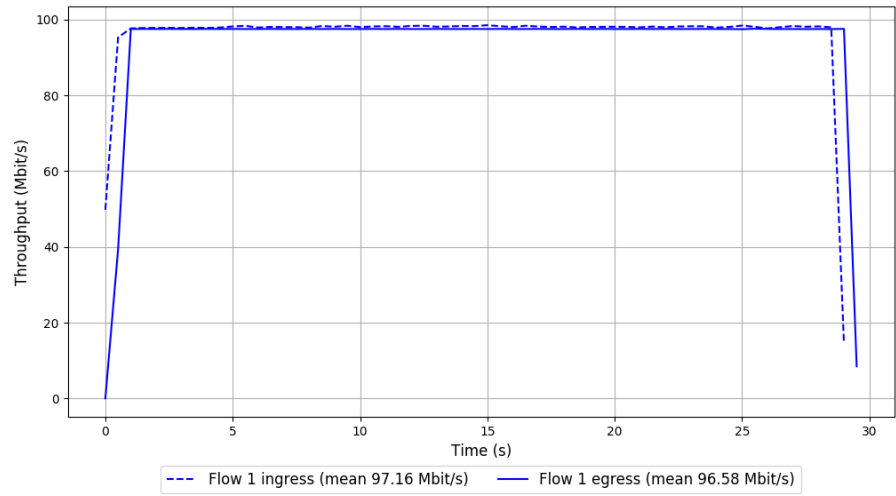
-- Flow 1:

Average throughput: 96.58 Mbit/s

95th percentile per-packet one-way delay: 41.804 ms

Loss rate: 0.82%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-03-27 07:51:38

End at: 2019-03-27 07:52:08

Local clock offset: 0.31 ms

Remote clock offset: 2.985 ms

Below is generated by plot.py at 2019-03-27 08:43:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.57 Mbit/s

95th percentile per-packet one-way delay: 41.748 ms

Loss rate: 0.92%

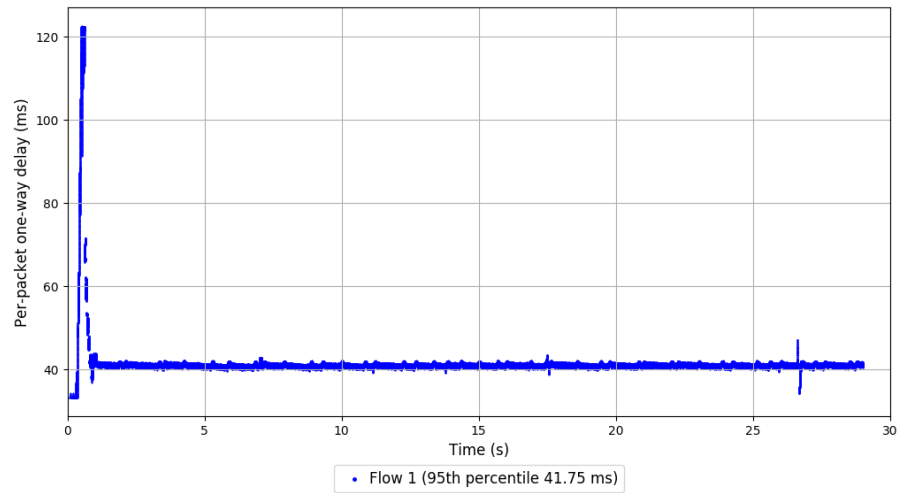
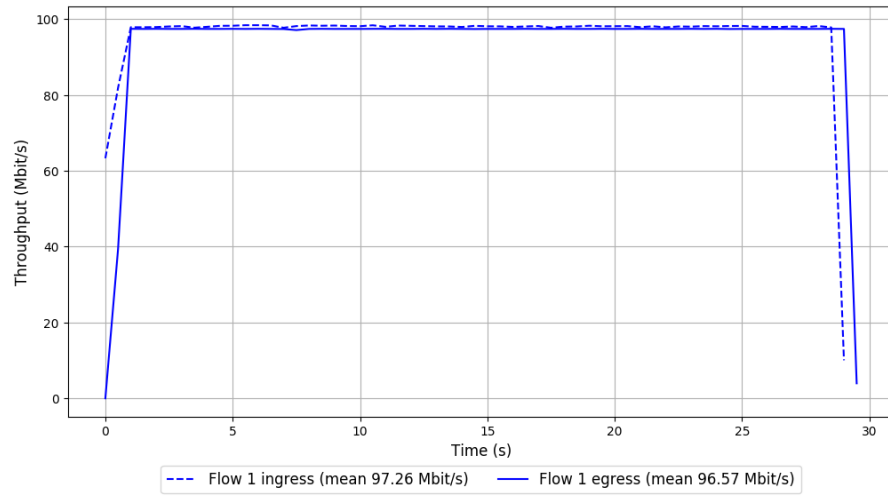
-- Flow 1:

Average throughput: 96.57 Mbit/s

95th percentile per-packet one-way delay: 41.748 ms

Loss rate: 0.92%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-03-27 08:16:17

End at: 2019-03-27 08:16:47

Local clock offset: 0.534 ms

Remote clock offset: 2.18 ms

Below is generated by plot.py at 2019-03-27 08:43:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.57 Mbit/s

95th percentile per-packet one-way delay: 41.507 ms

Loss rate: 0.95%

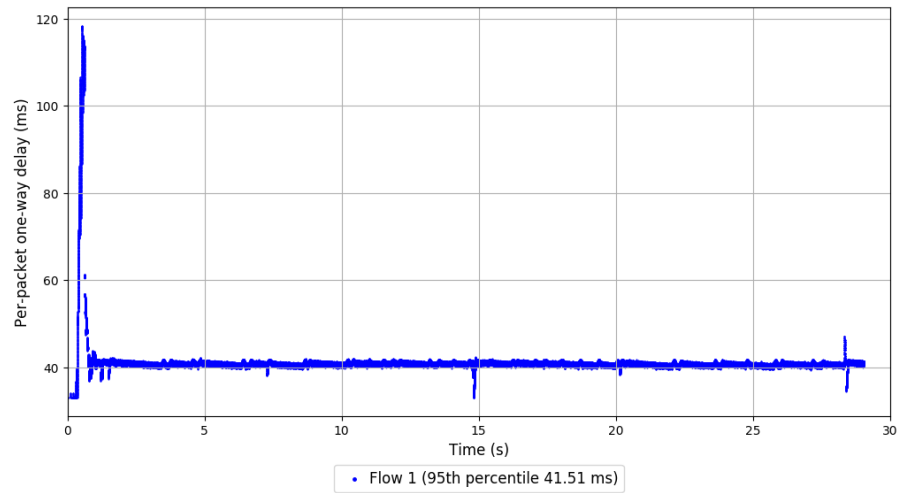
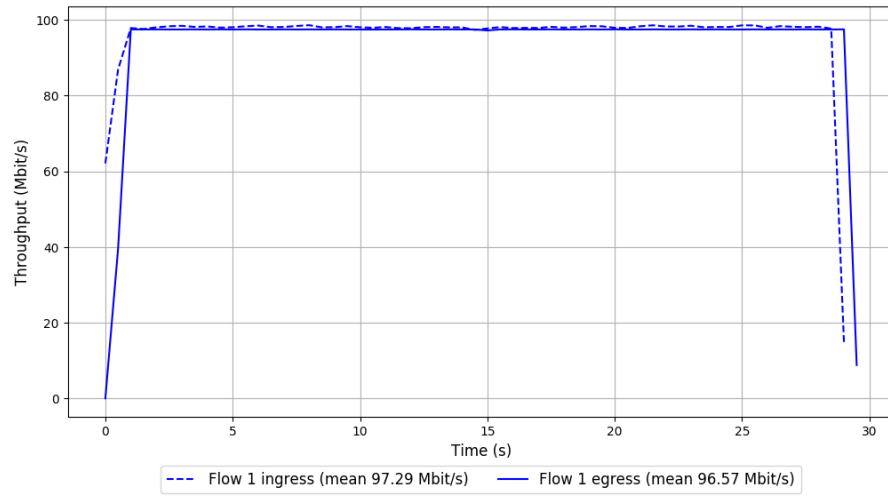
-- Flow 1:

Average throughput: 96.57 Mbit/s

95th percentile per-packet one-way delay: 41.507 ms

Loss rate: 0.95%

Run 5: Report of Indigo-MusesT — Data Link

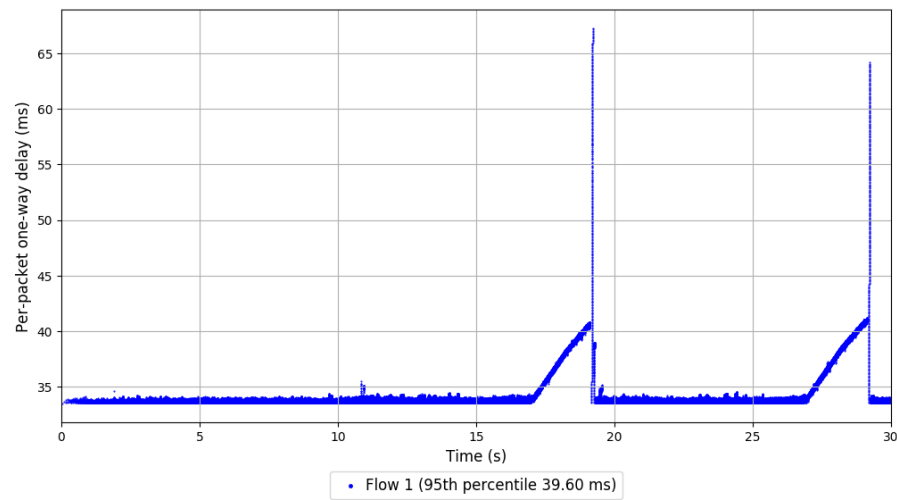
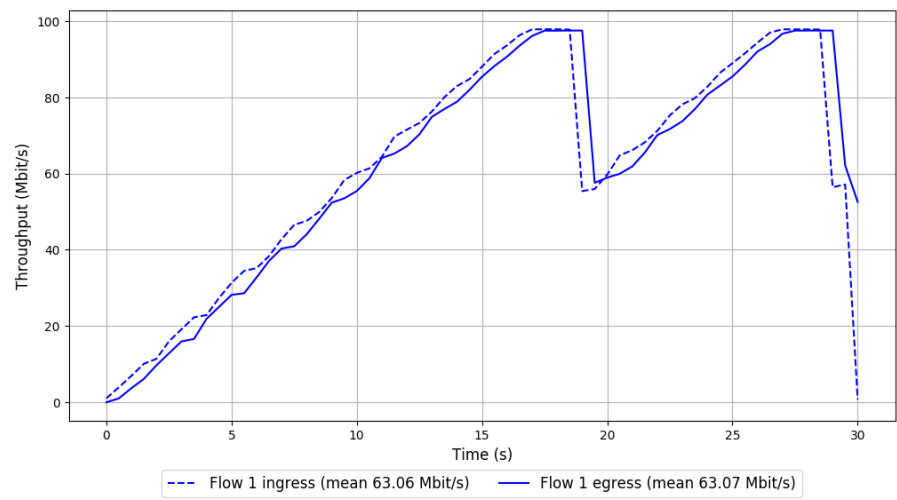


```
Run 1: Statistics of LEDBAT

Start at: 2019-03-27 06:35:45
End at: 2019-03-27 06:36:15
Local clock offset: 4.093 ms
Remote clock offset: 0.701 ms

# Below is generated by plot.py at 2019-03-27 08:43:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.07 Mbit/s
95th percentile per-packet one-way delay: 39.602 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 63.07 Mbit/s
95th percentile per-packet one-way delay: 39.602 ms
Loss rate: 0.20%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-03-27 07:00:24

End at: 2019-03-27 07:00:54

Local clock offset: 1.088 ms

Remote clock offset: 1.983 ms

Below is generated by plot.py at 2019-03-27 08:43:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.13 Mbit/s

95th percentile per-packet one-way delay: 39.791 ms

Loss rate: 0.20%

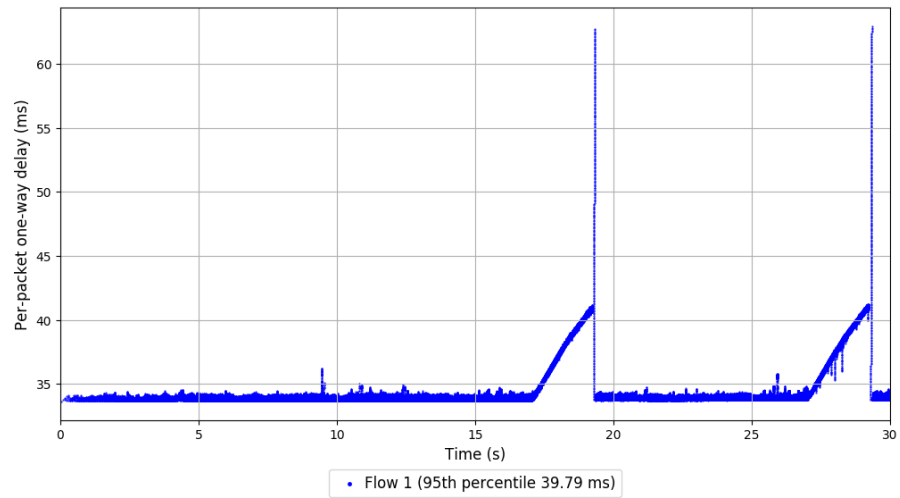
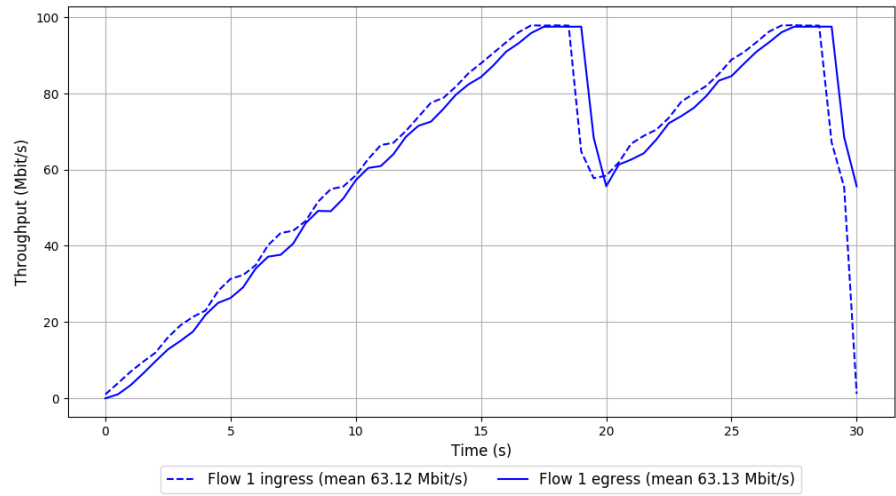
-- Flow 1:

Average throughput: 63.13 Mbit/s

95th percentile per-packet one-way delay: 39.791 ms

Loss rate: 0.20%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-03-27 07:24:52

End at: 2019-03-27 07:25:22

Local clock offset: 0.207 ms

Remote clock offset: 3.072 ms

Below is generated by plot.py at 2019-03-27 08:43:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.71 Mbit/s

95th percentile per-packet one-way delay: 38.926 ms

Loss rate: 0.32%

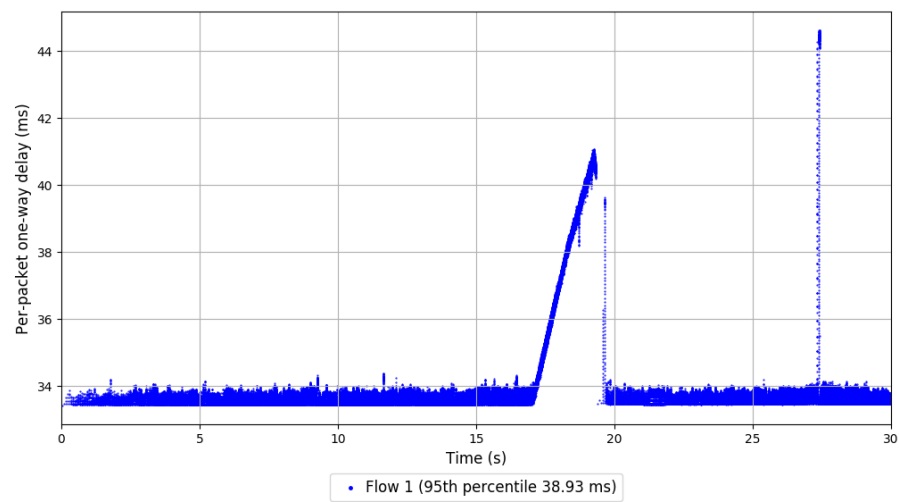
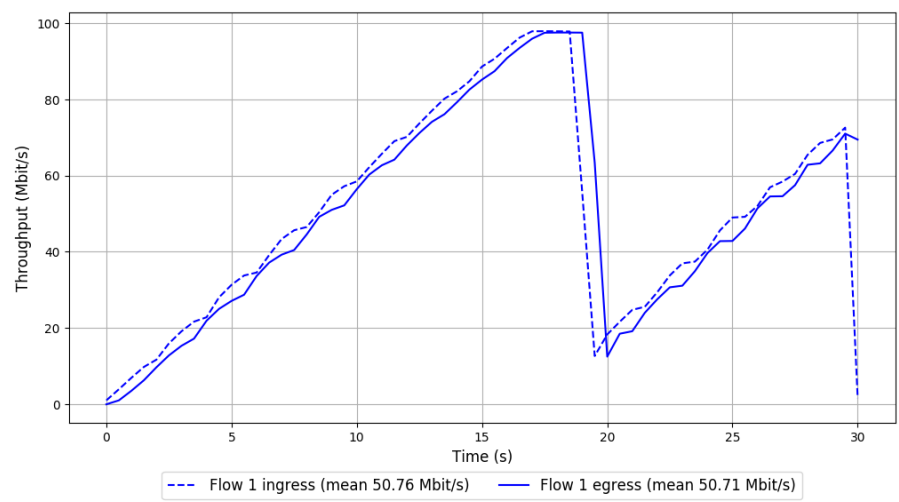
-- Flow 1:

Average throughput: 50.71 Mbit/s

95th percentile per-packet one-way delay: 38.926 ms

Loss rate: 0.32%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-03-27 07:49:22

End at: 2019-03-27 07:49:52

Local clock offset: 0.278 ms

Remote clock offset: 3.064 ms

Below is generated by plot.py at 2019-03-27 08:43:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.18 Mbit/s

95th percentile per-packet one-way delay: 39.372 ms

Loss rate: 0.20%

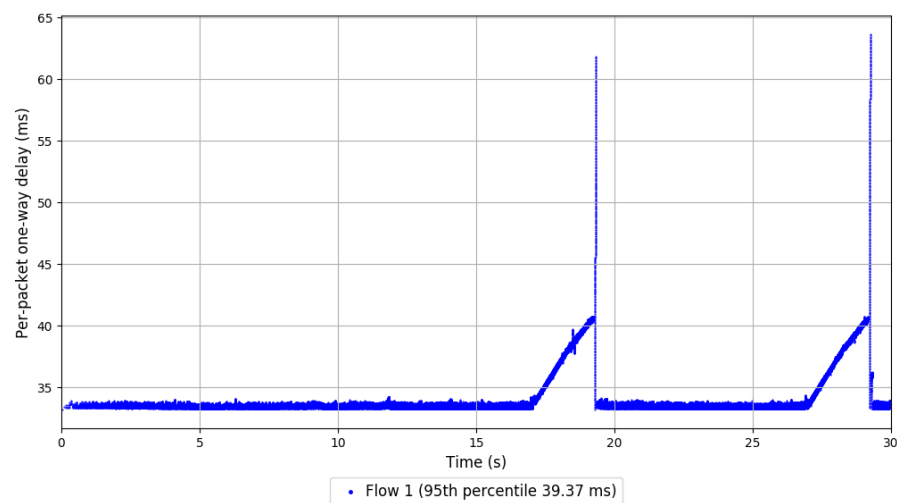
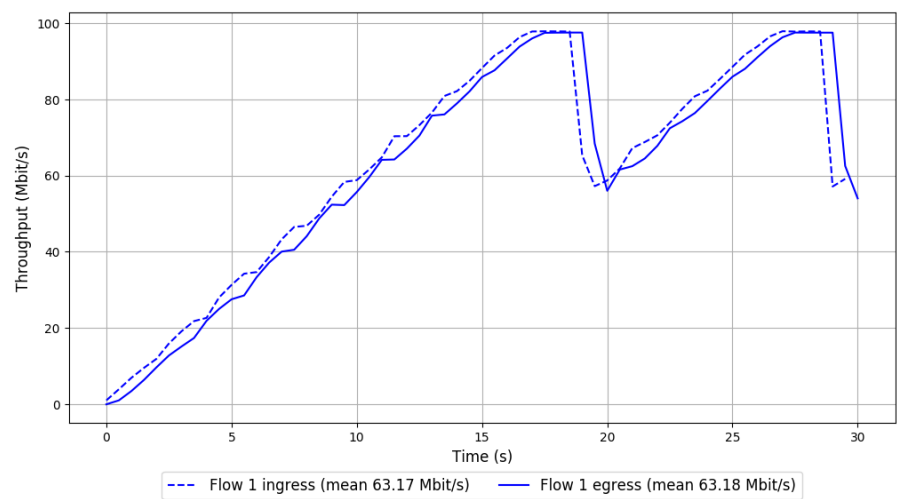
-- Flow 1:

Average throughput: 63.18 Mbit/s

95th percentile per-packet one-way delay: 39.372 ms

Loss rate: 0.20%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-03-27 08:14:01

End at: 2019-03-27 08:14:31

Local clock offset: 0.435 ms

Remote clock offset: 2.237 ms

Below is generated by plot.py at 2019-03-27 08:43:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.29 Mbit/s

95th percentile per-packet one-way delay: 38.150 ms

Loss rate: 0.35%

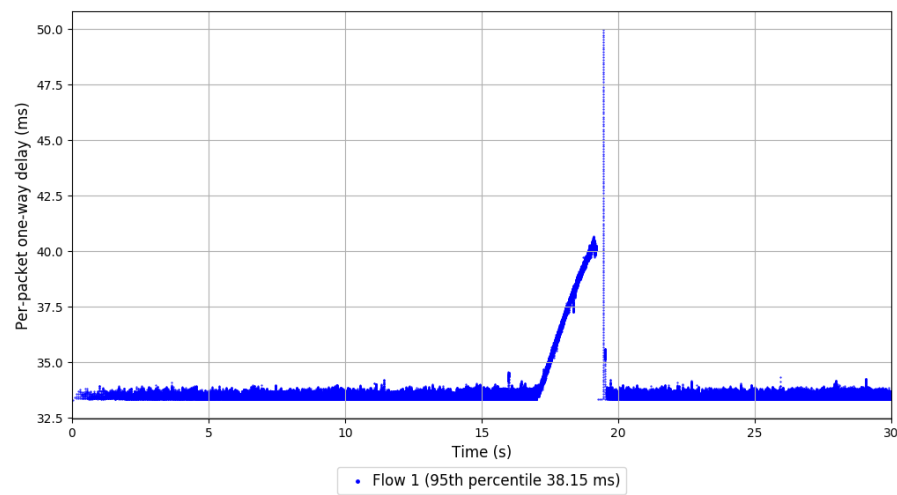
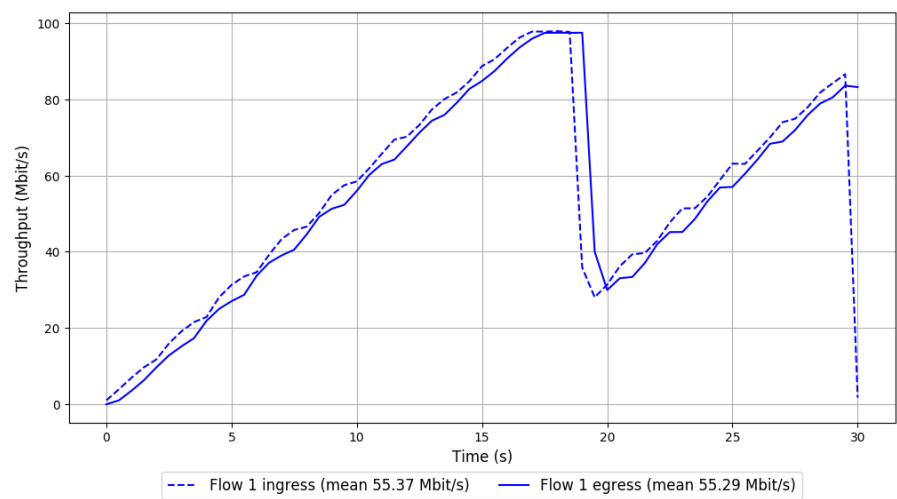
-- Flow 1:

Average throughput: 55.29 Mbit/s

95th percentile per-packet one-way delay: 38.150 ms

Loss rate: 0.35%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-03-27 06:49:51

End at: 2019-03-27 06:50:22

Local clock offset: 3.112 ms

Remote clock offset: 1.647 ms

Below is generated by plot.py at 2019-03-27 08:43:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.41 Mbit/s

95th percentile per-packet one-way delay: 38.574 ms

Loss rate: 0.24%

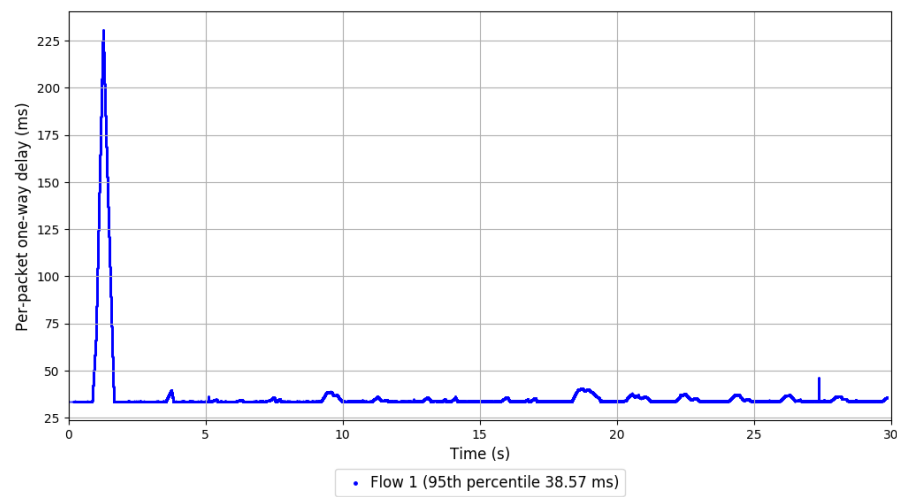
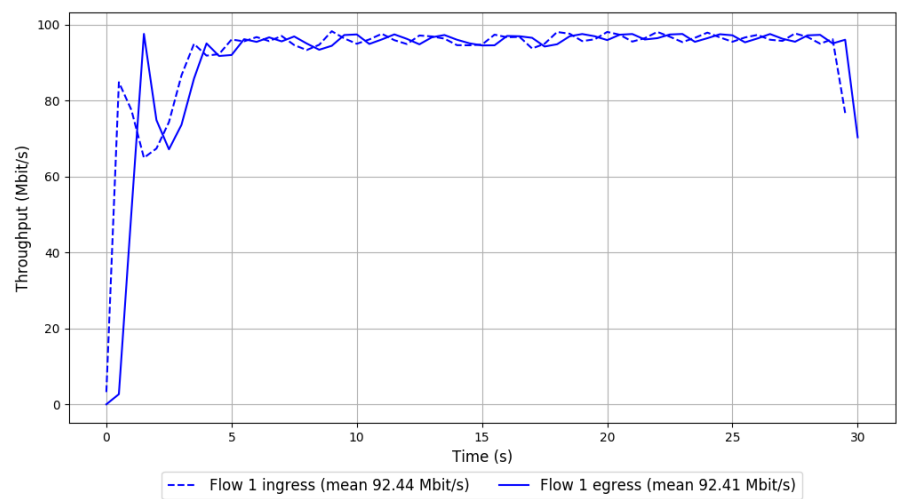
-- Flow 1:

Average throughput: 92.41 Mbit/s

95th percentile per-packet one-way delay: 38.574 ms

Loss rate: 0.24%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-03-27 07:14:24

End at: 2019-03-27 07:14:54

Local clock offset: 0.371 ms

Remote clock offset: 2.668 ms

Below is generated by plot.py at 2019-03-27 08:44:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.24 Mbit/s

95th percentile per-packet one-way delay: 39.071 ms

Loss rate: 0.23%

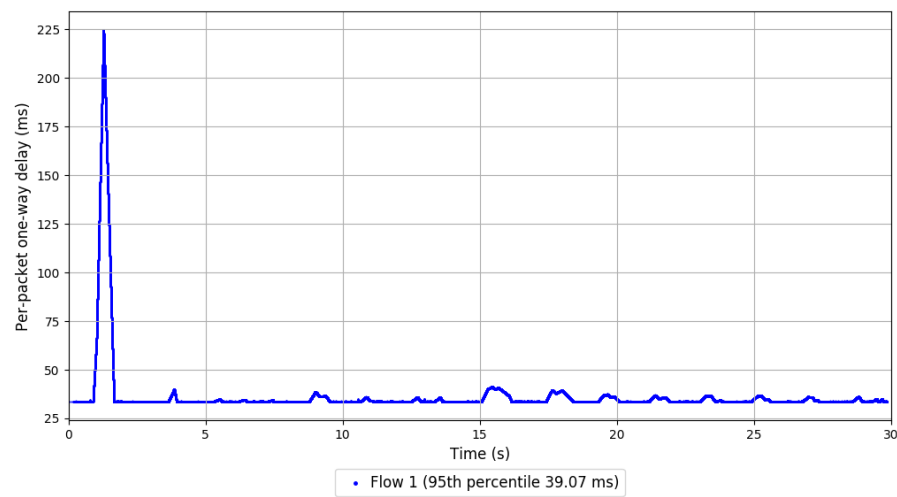
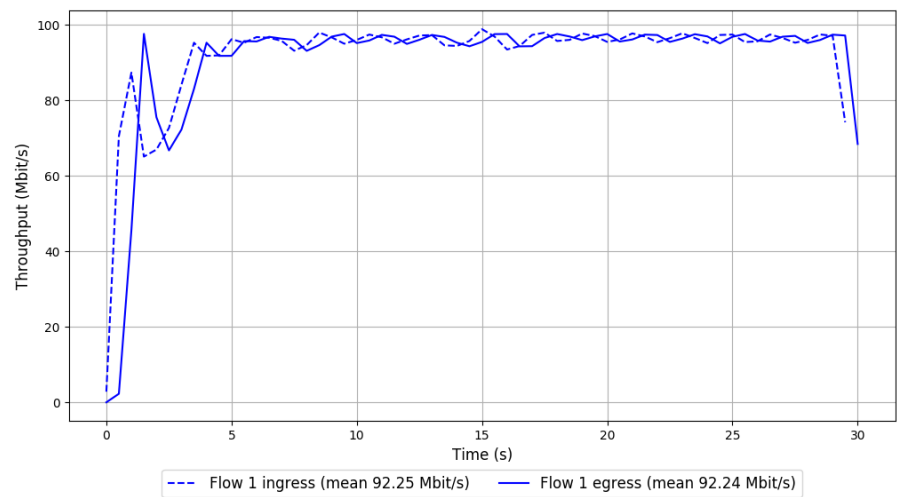
-- Flow 1:

Average throughput: 92.24 Mbit/s

95th percentile per-packet one-way delay: 39.071 ms

Loss rate: 0.23%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-03-27 07:38:54

End at: 2019-03-27 07:39:24

Local clock offset: 0.218 ms

Remote clock offset: 3.441 ms

Below is generated by plot.py at 2019-03-27 08:44:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.12 Mbit/s

95th percentile per-packet one-way delay: 37.505 ms

Loss rate: 0.31%

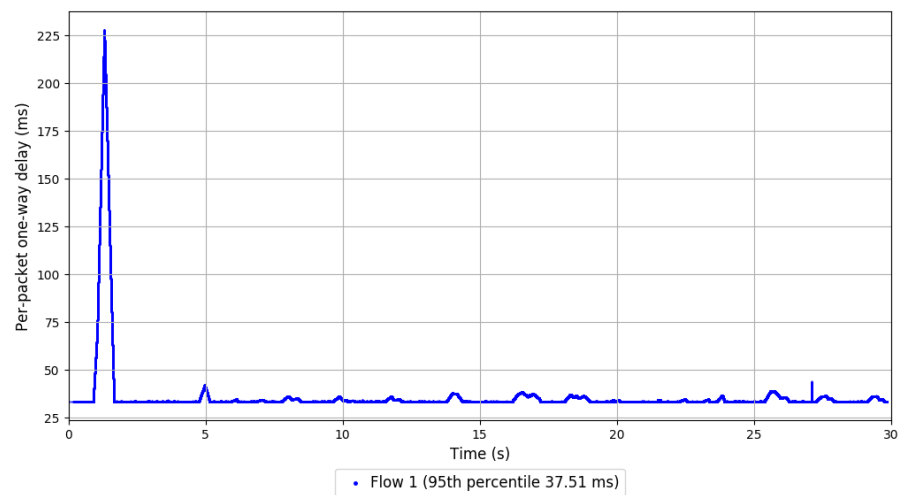
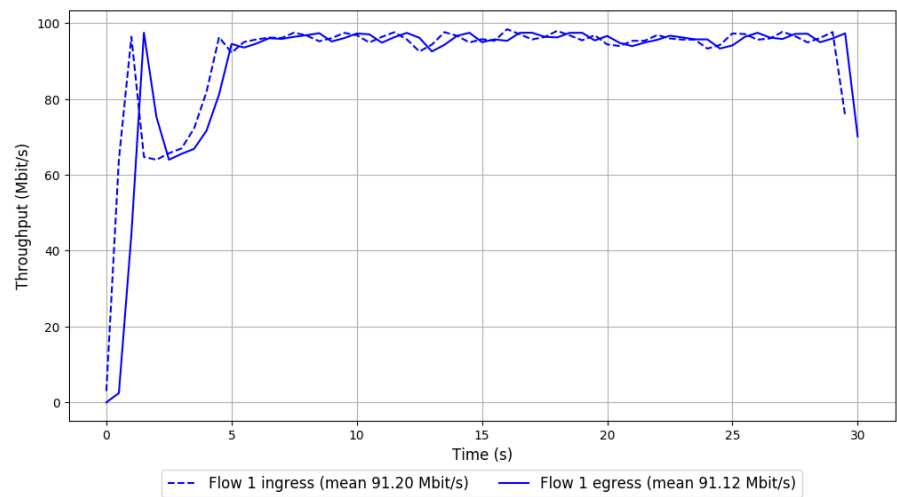
-- Flow 1:

Average throughput: 91.12 Mbit/s

95th percentile per-packet one-way delay: 37.505 ms

Loss rate: 0.31%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-03-27 08:03:33

End at: 2019-03-27 08:04:03

Local clock offset: 0.38 ms

Remote clock offset: 2.487 ms

Below is generated by plot.py at 2019-03-27 08:44:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.61 Mbit/s

95th percentile per-packet one-way delay: 38.276 ms

Loss rate: 0.25%

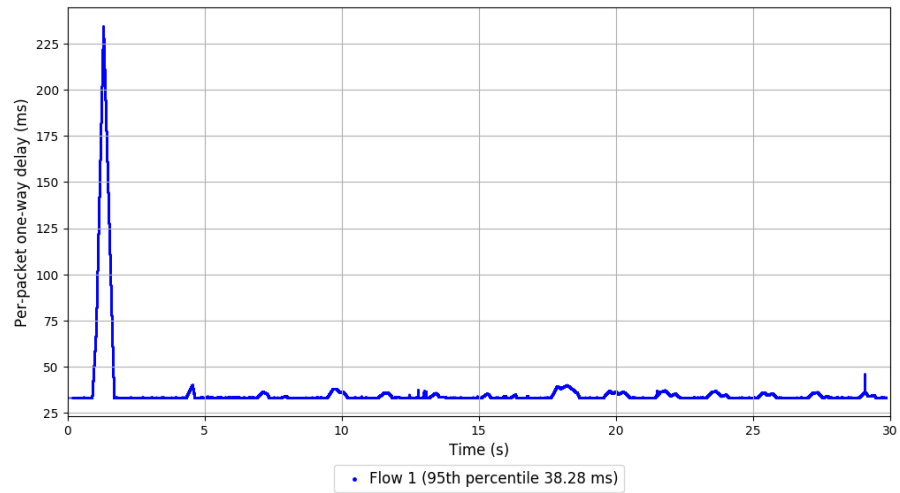
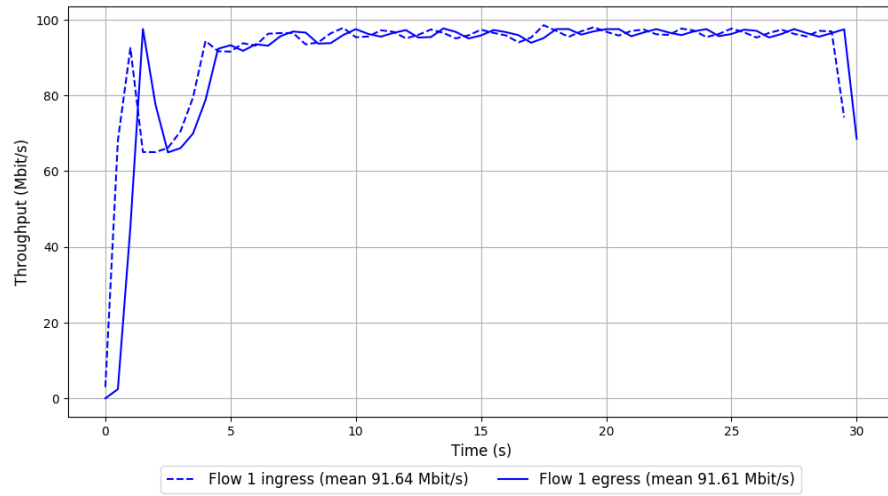
-- Flow 1:

Average throughput: 91.61 Mbit/s

95th percentile per-packet one-way delay: 38.276 ms

Loss rate: 0.25%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-03-27 08:28:04

End at: 2019-03-27 08:28:34

Local clock offset: 2.937 ms

Remote clock offset: 2.002 ms

Below is generated by plot.py at 2019-03-27 08:44:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.84 Mbit/s

95th percentile per-packet one-way delay: 38.642 ms

Loss rate: 0.23%

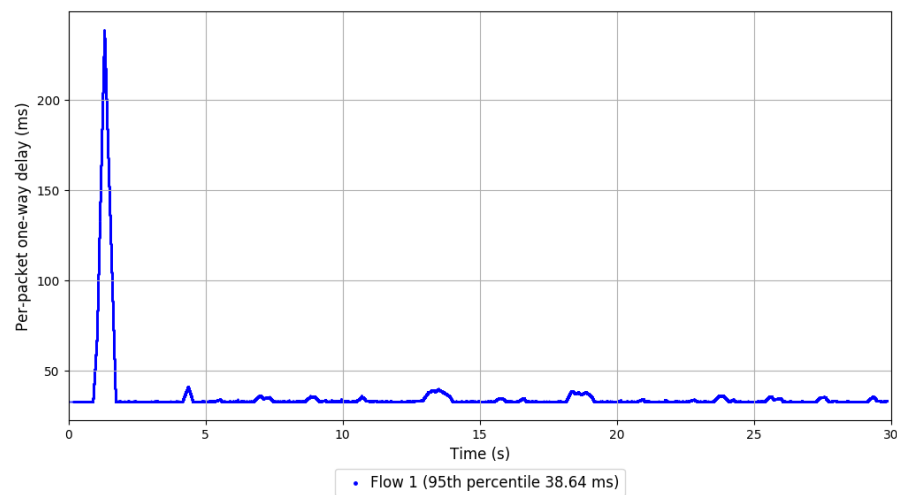
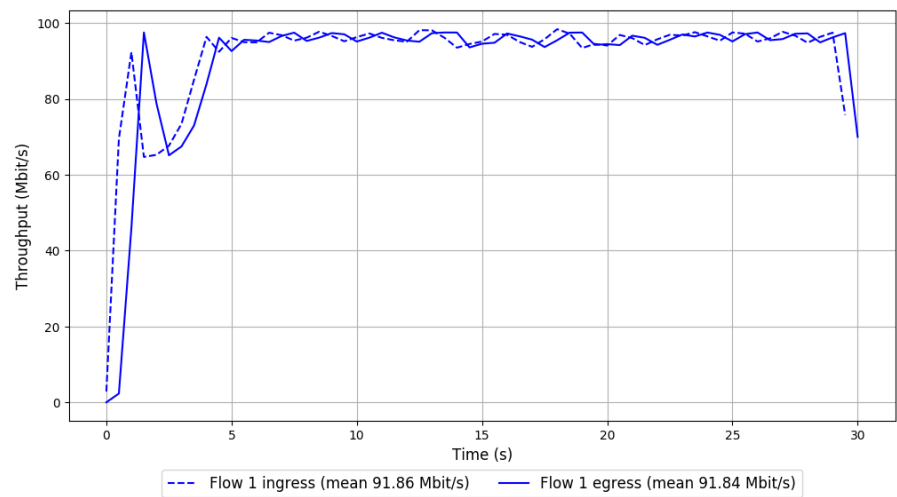
-- Flow 1:

Average throughput: 91.84 Mbit/s

95th percentile per-packet one-way delay: 38.642 ms

Loss rate: 0.23%

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2019-03-27 06:31:02

End at: 2019-03-27 06:31:32

Local clock offset: 3.678 ms

Remote clock offset: 0.64 ms

Below is generated by plot.py at 2019-03-27 08:45:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.75 Mbit/s

95th percentile per-packet one-way delay: 152.845 ms

Loss rate: 0.34%

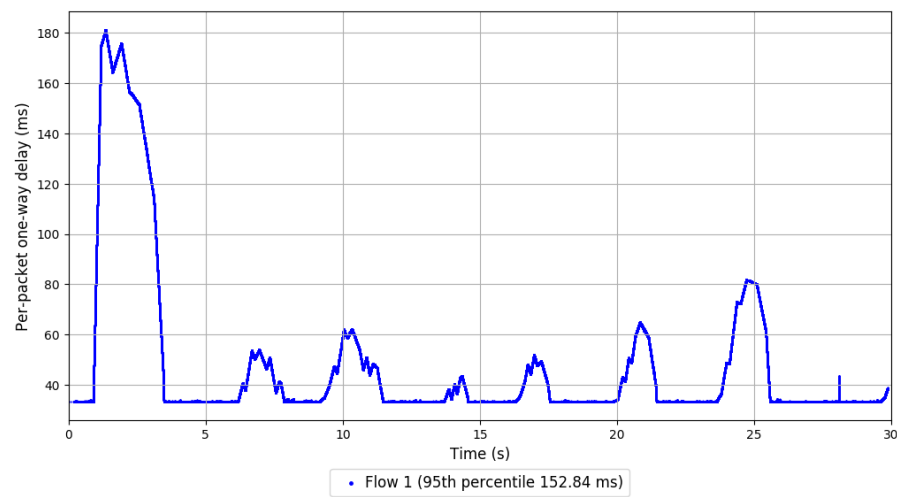
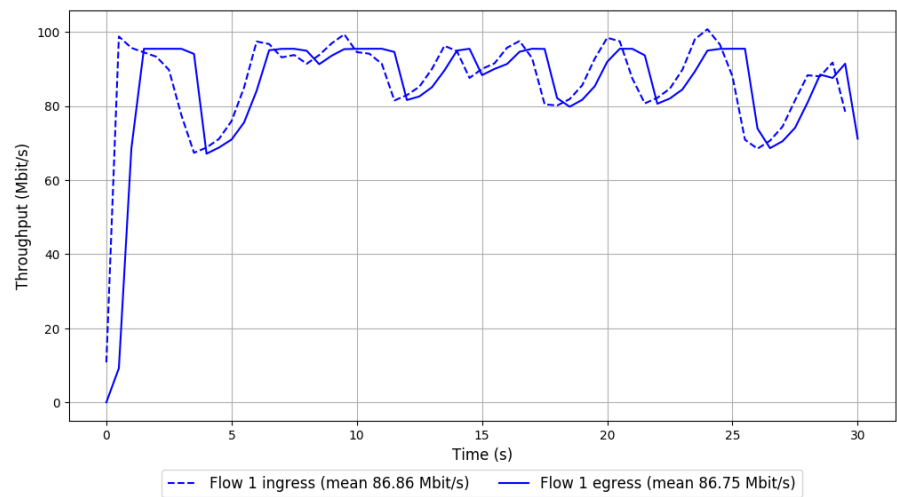
-- Flow 1:

Average throughput: 86.75 Mbit/s

95th percentile per-packet one-way delay: 152.845 ms

Loss rate: 0.34%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-03-27 06:55:38

End at: 2019-03-27 06:56:08

Local clock offset: 1.709 ms

Remote clock offset: 1.841 ms

Below is generated by plot.py at 2019-03-27 08:45:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.03 Mbit/s

95th percentile per-packet one-way delay: 155.243 ms

Loss rate: 0.25%

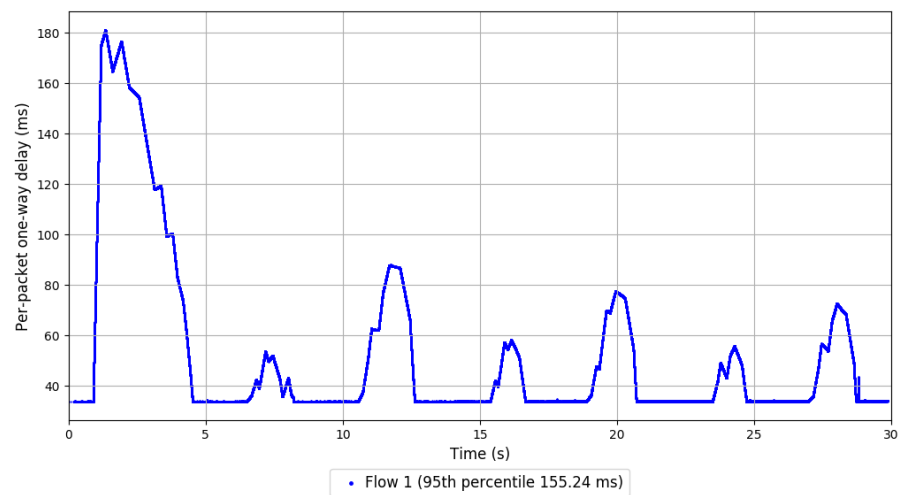
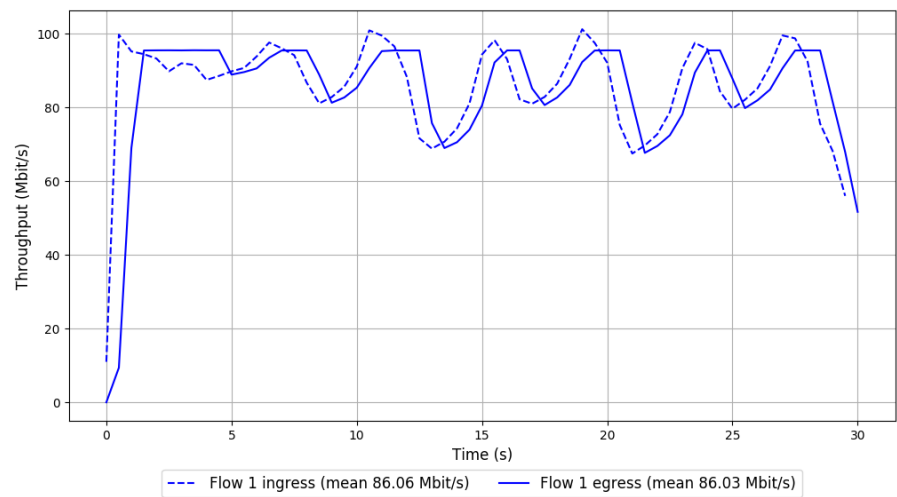
-- Flow 1:

Average throughput: 86.03 Mbit/s

95th percentile per-packet one-way delay: 155.243 ms

Loss rate: 0.25%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-03-27 07:20:09

End at: 2019-03-27 07:20:39

Local clock offset: 0.244 ms

Remote clock offset: 2.802 ms

Below is generated by plot.py at 2019-03-27 08:45:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.10 Mbit/s

95th percentile per-packet one-way delay: 160.464 ms

Loss rate: 0.30%

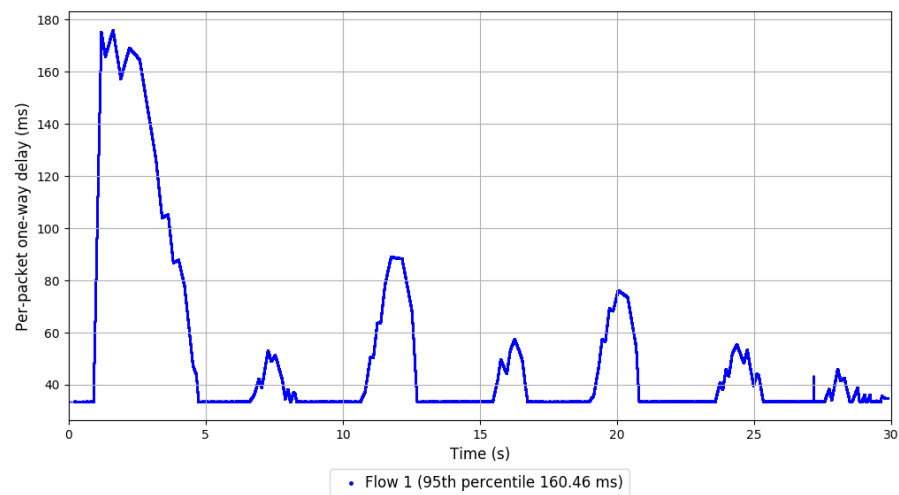
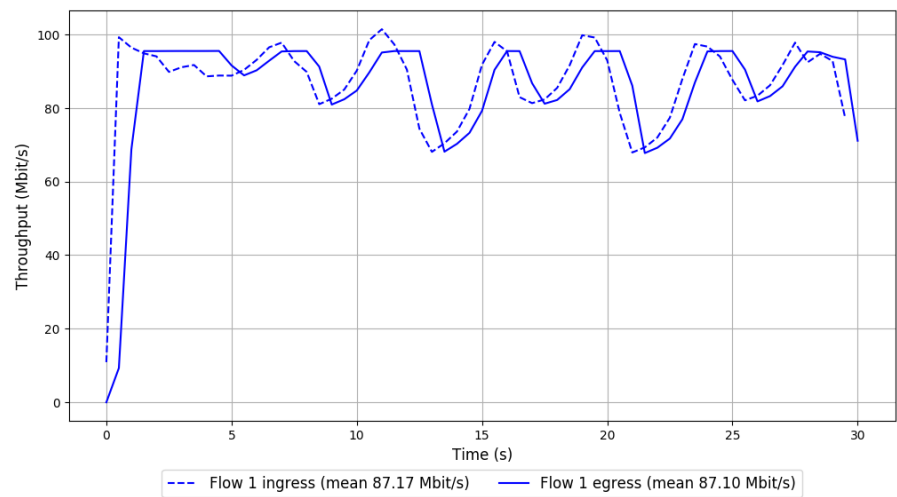
-- Flow 1:

Average throughput: 87.10 Mbit/s

95th percentile per-packet one-way delay: 160.464 ms

Loss rate: 0.30%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-03-27 07:44:38

End at: 2019-03-27 07:45:08

Local clock offset: 0.241 ms

Remote clock offset: 3.198 ms

Below is generated by plot.py at 2019-03-27 08:45:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.72 Mbit/s

95th percentile per-packet one-way delay: 154.519 ms

Loss rate: 0.25%

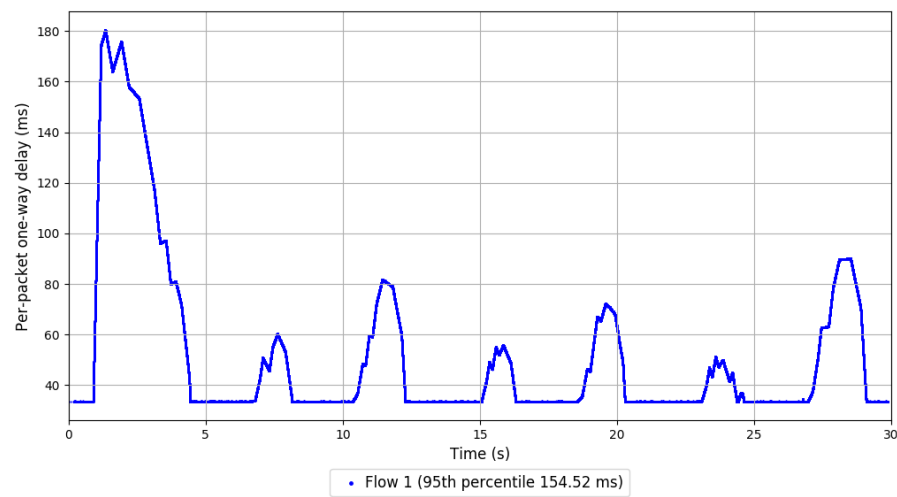
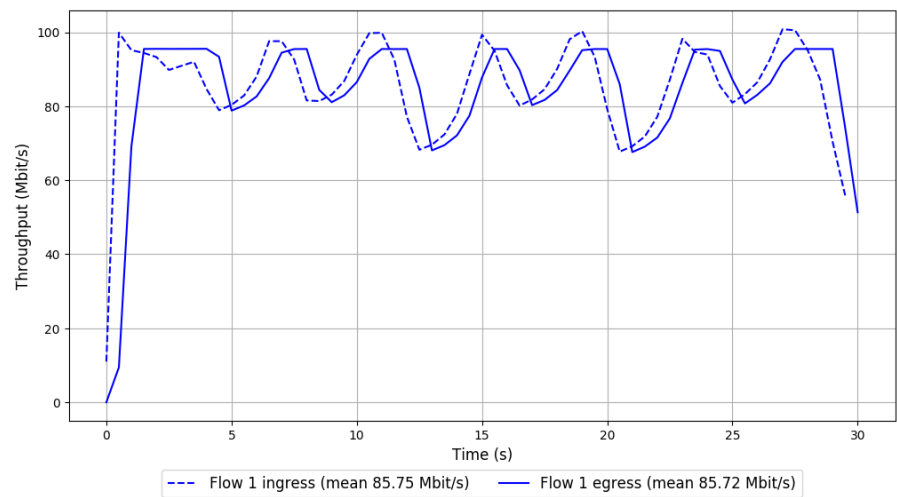
-- Flow 1:

Average throughput: 85.72 Mbit/s

95th percentile per-packet one-way delay: 154.519 ms

Loss rate: 0.25%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-03-27 08:09:18

End at: 2019-03-27 08:09:48

Local clock offset: 0.413 ms

Remote clock offset: 2.311 ms

Below is generated by plot.py at 2019-03-27 08:46:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.81 Mbit/s

95th percentile per-packet one-way delay: 161.490 ms

Loss rate: 0.31%

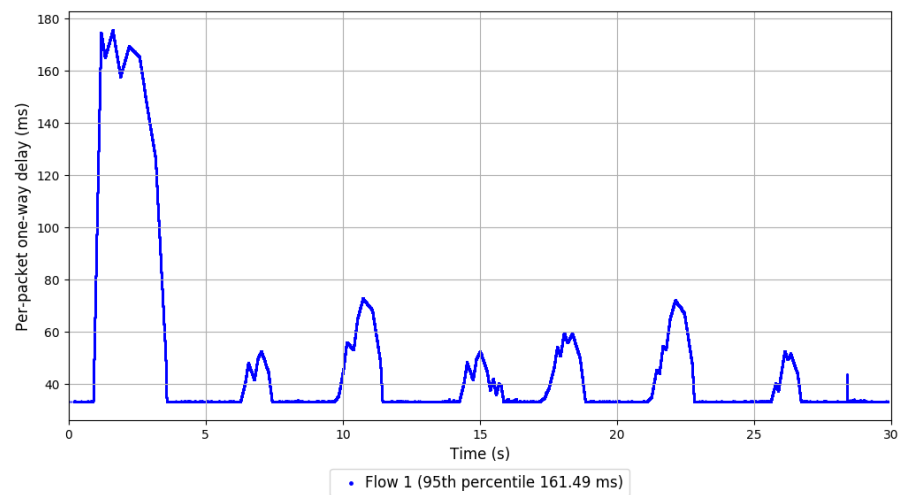
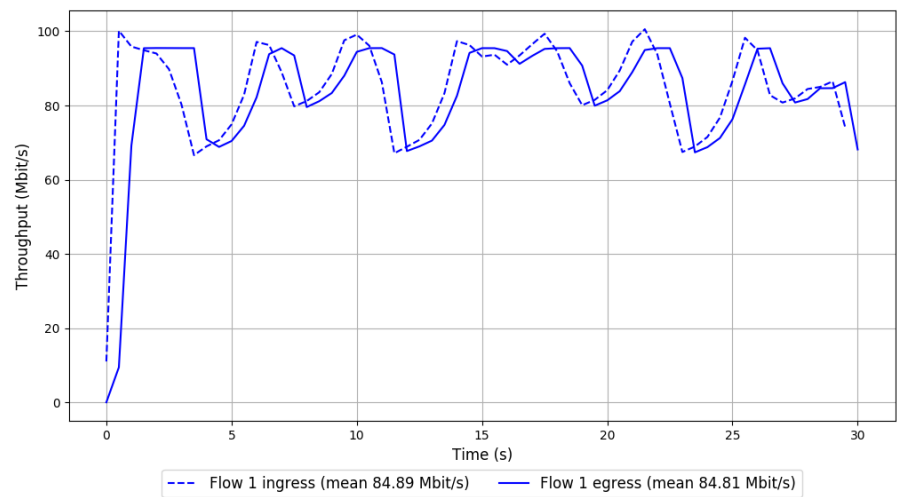
-- Flow 1:

Average throughput: 84.81 Mbit/s

95th percentile per-packet one-way delay: 161.490 ms

Loss rate: 0.31%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-03-27 06:40:23

End at: 2019-03-27 06:40:53

Local clock offset: 4.435 ms

Remote clock offset: 0.937 ms

Below is generated by plot.py at 2019-03-27 08:46:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.87 Mbit/s

95th percentile per-packet one-way delay: 40.829 ms

Loss rate: 0.26%

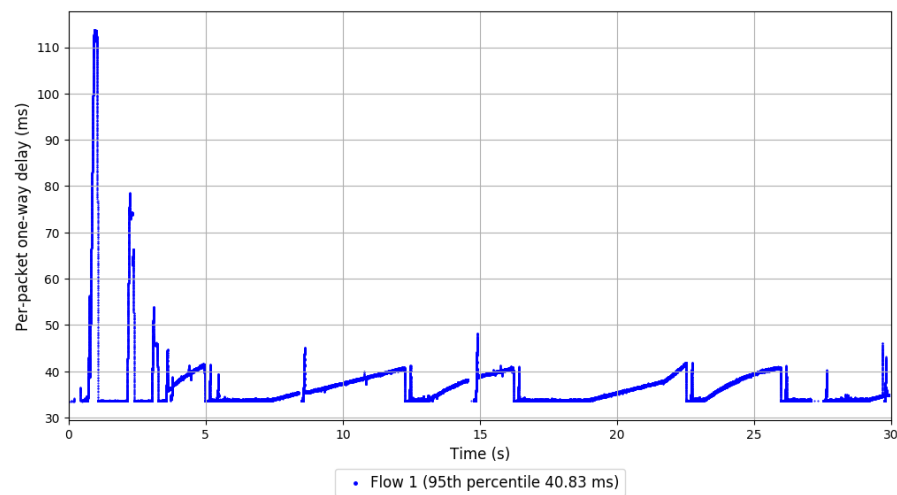
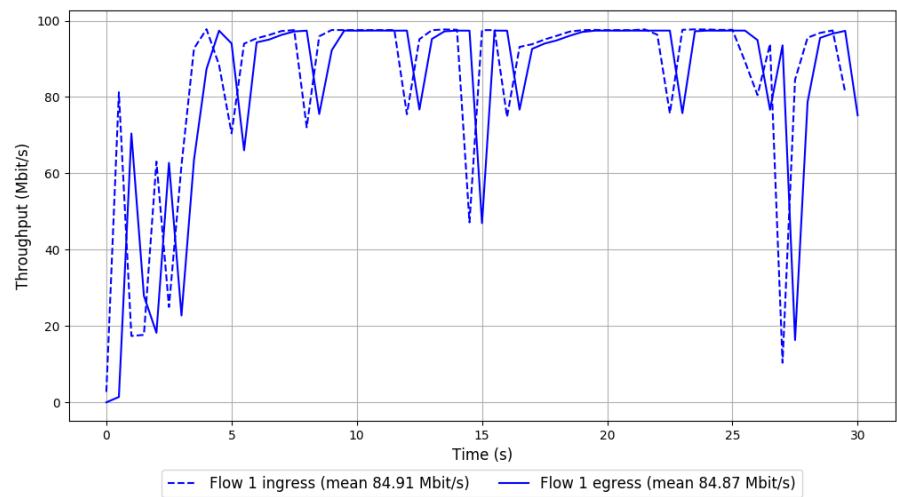
-- Flow 1:

Average throughput: 84.87 Mbit/s

95th percentile per-packet one-way delay: 40.829 ms

Loss rate: 0.26%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-03-27 07:05:01

End at: 2019-03-27 07:05:31

Local clock offset: 0.724 ms

Remote clock offset: 2.353 ms

Below is generated by plot.py at 2019-03-27 08:46:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.75 Mbit/s

95th percentile per-packet one-way delay: 50.852 ms

Loss rate: 0.28%

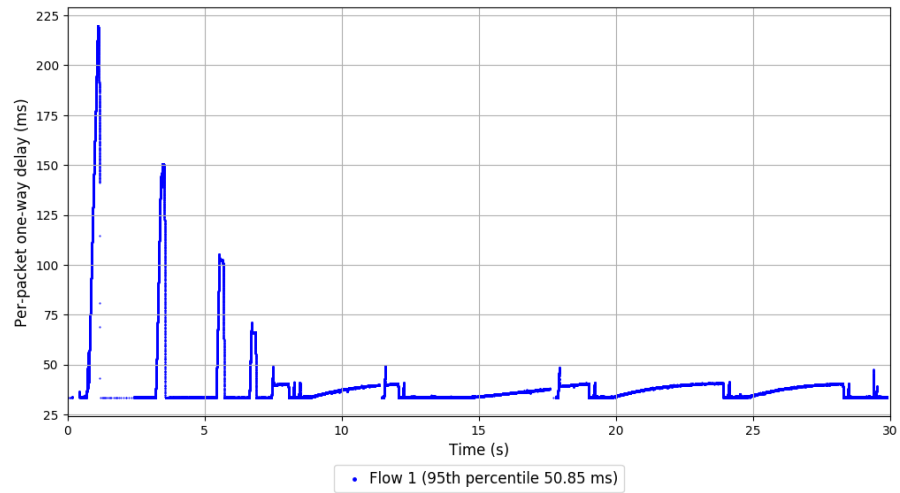
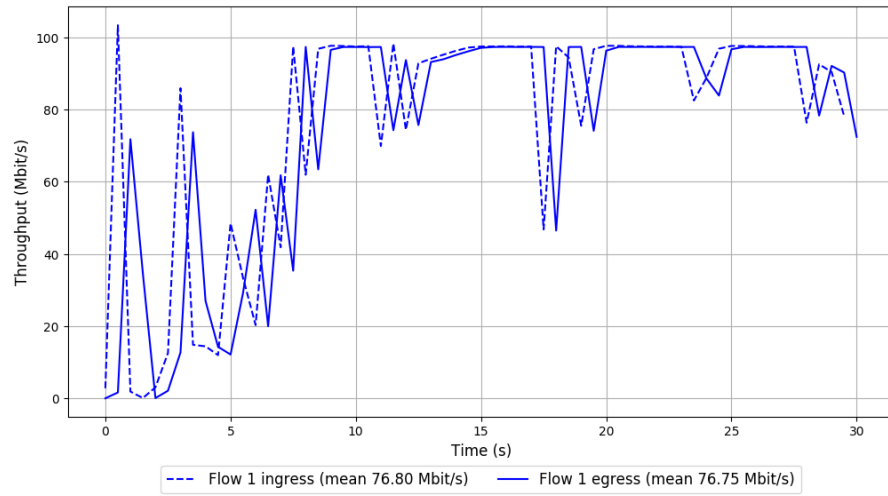
-- Flow 1:

Average throughput: 76.75 Mbit/s

95th percentile per-packet one-way delay: 50.852 ms

Loss rate: 0.28%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-03-27 07:29:29

End at: 2019-03-27 07:29:59

Local clock offset: 0.211 ms

Remote clock offset: 3.393 ms

Below is generated by plot.py at 2019-03-27 08:46:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.08 Mbit/s

95th percentile per-packet one-way delay: 49.606 ms

Loss rate: 0.28%

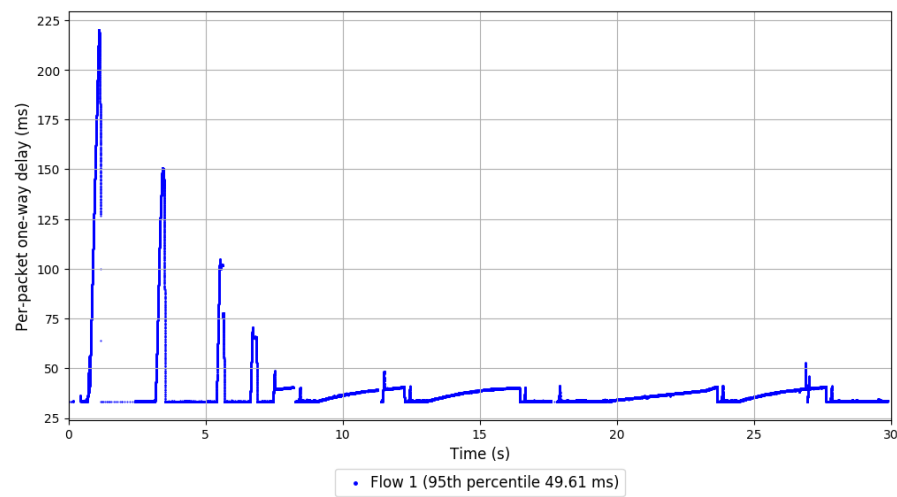
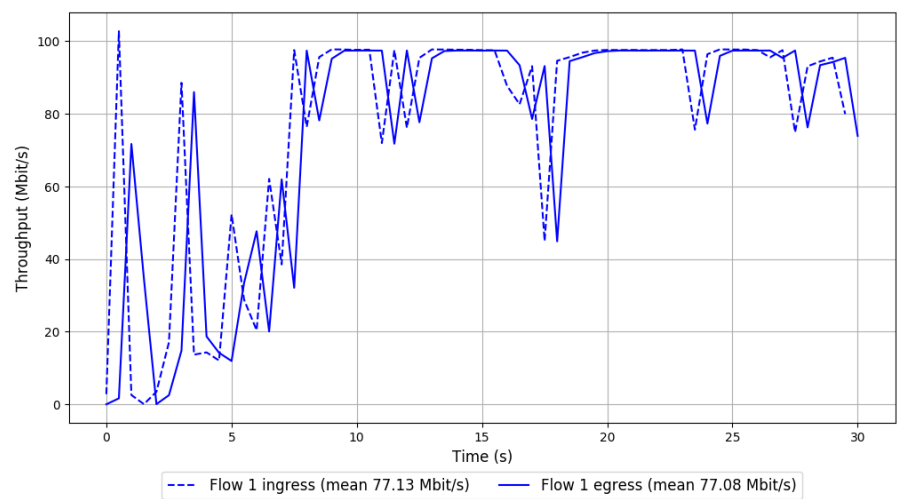
-- Flow 1:

Average throughput: 77.08 Mbit/s

95th percentile per-packet one-way delay: 49.606 ms

Loss rate: 0.28%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-03-27 07:54:07

End at: 2019-03-27 07:54:37

Local clock offset: 0.337 ms

Remote clock offset: 2.718 ms

Below is generated by plot.py at 2019-03-27 08:46:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.07 Mbit/s

95th percentile per-packet one-way delay: 40.562 ms

Loss rate: 0.28%

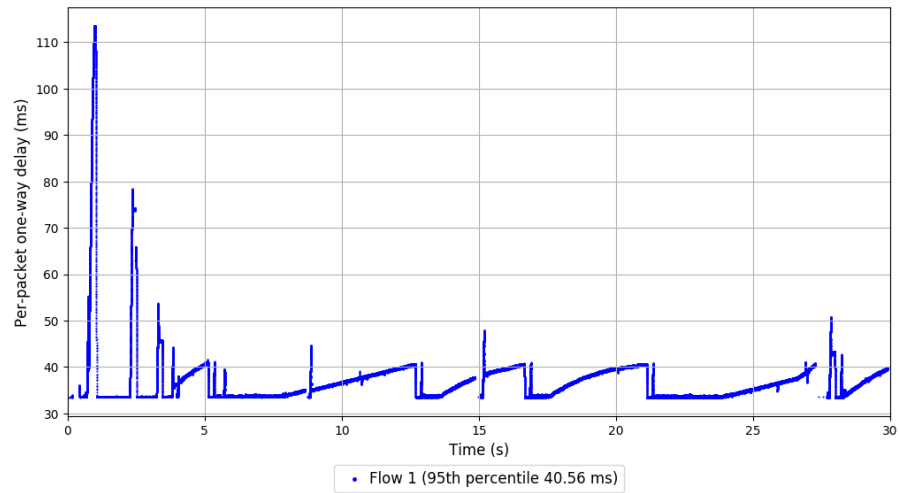
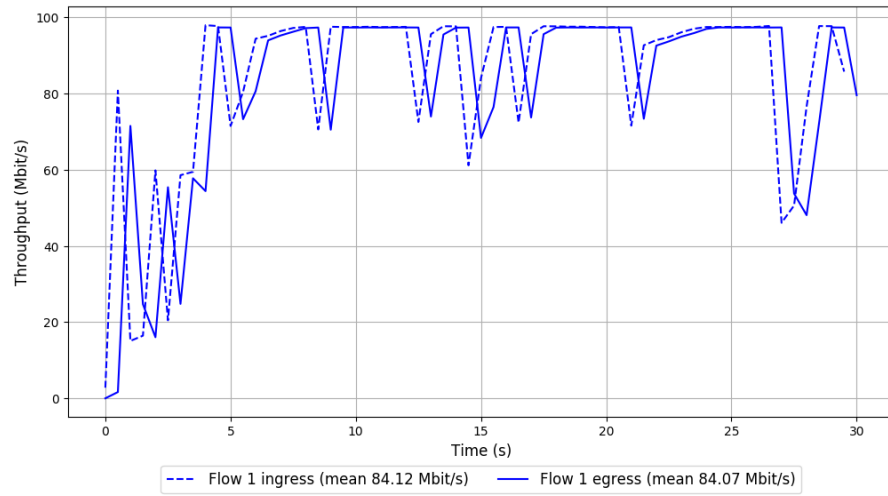
-- Flow 1:

Average throughput: 84.07 Mbit/s

95th percentile per-packet one-way delay: 40.562 ms

Loss rate: 0.28%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-03-27 08:18:38

End at: 2019-03-27 08:19:08

Local clock offset: 1.258 ms

Remote clock offset: 2.137 ms

Below is generated by plot.py at 2019-03-27 08:46:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.45 Mbit/s

95th percentile per-packet one-way delay: 40.265 ms

Loss rate: 0.29%

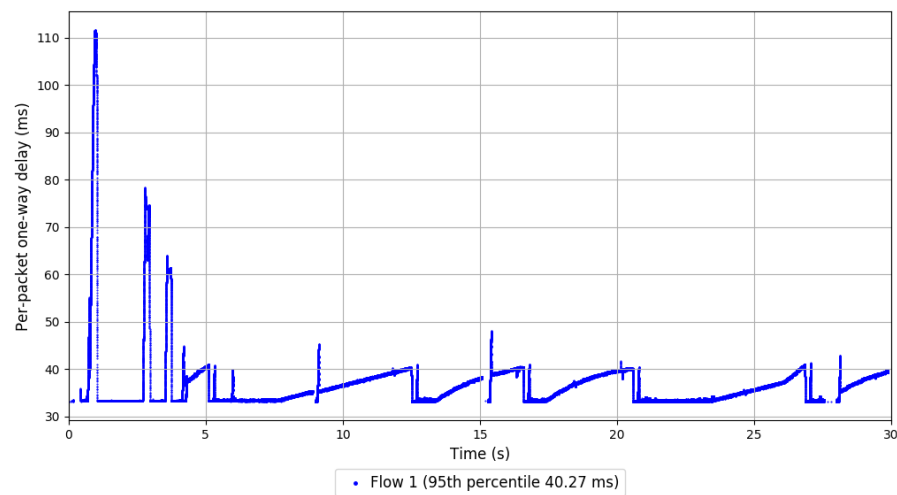
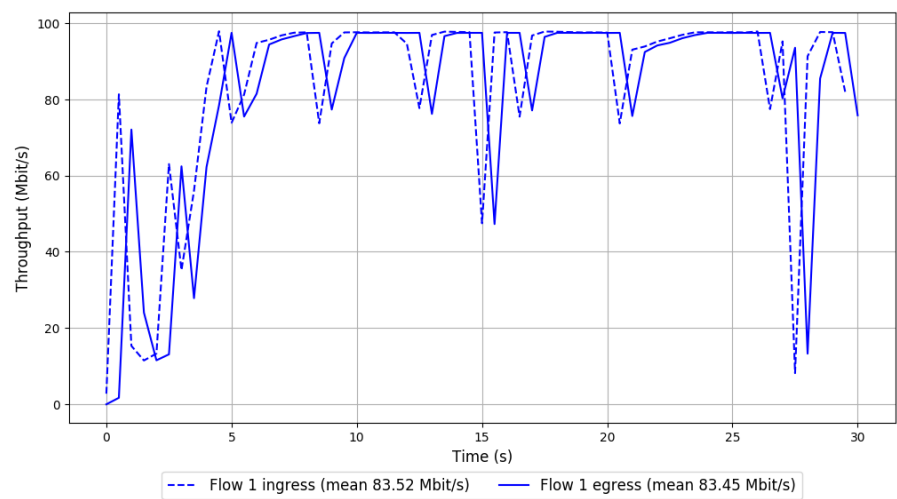
-- Flow 1:

Average throughput: 83.45 Mbit/s

95th percentile per-packet one-way delay: 40.265 ms

Loss rate: 0.29%

Run 5: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2019-03-27 06:36:55

End at: 2019-03-27 06:37:25

Local clock offset: 4.19 ms

Remote clock offset: 0.957 ms

Below is generated by plot.py at 2019-03-27 08:46:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 33.388 ms

Loss rate: 0.26%

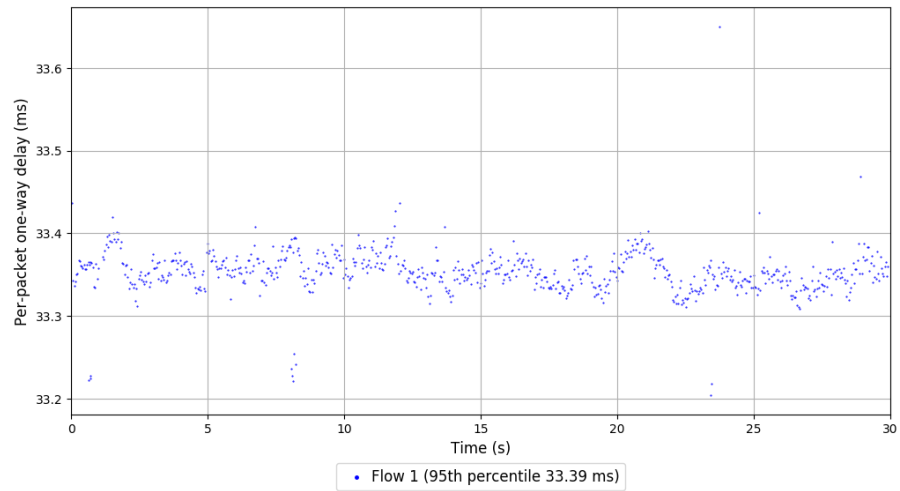
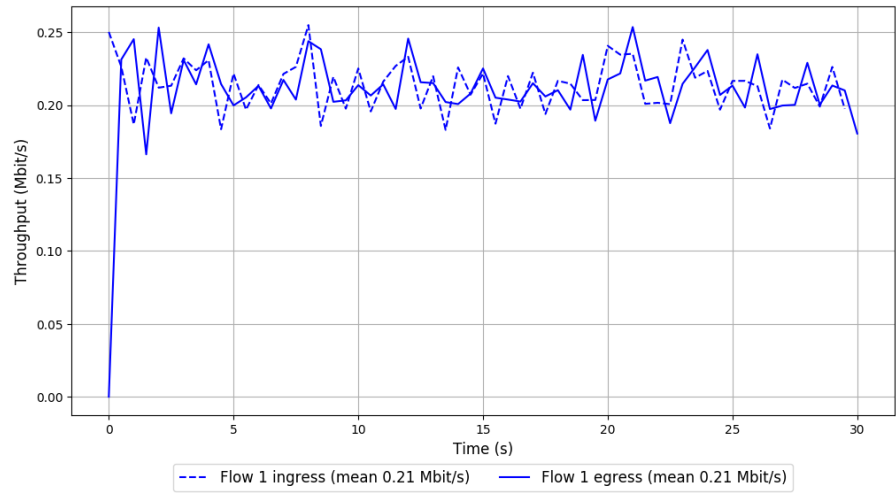
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 33.388 ms

Loss rate: 0.26%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-03-27 07:01:34

End at: 2019-03-27 07:02:04

Local clock offset: 0.966 ms

Remote clock offset: 2.273 ms

Below is generated by plot.py at 2019-03-27 08:46:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 33.426 ms

Loss rate: 0.26%

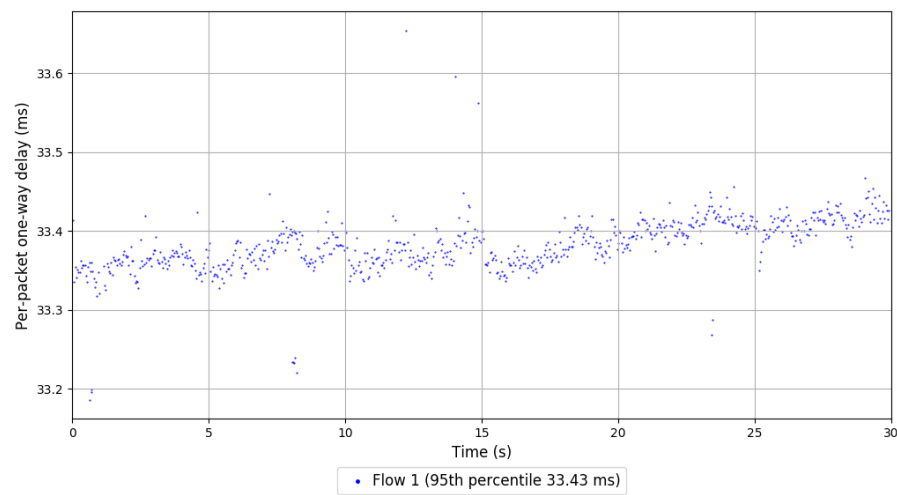
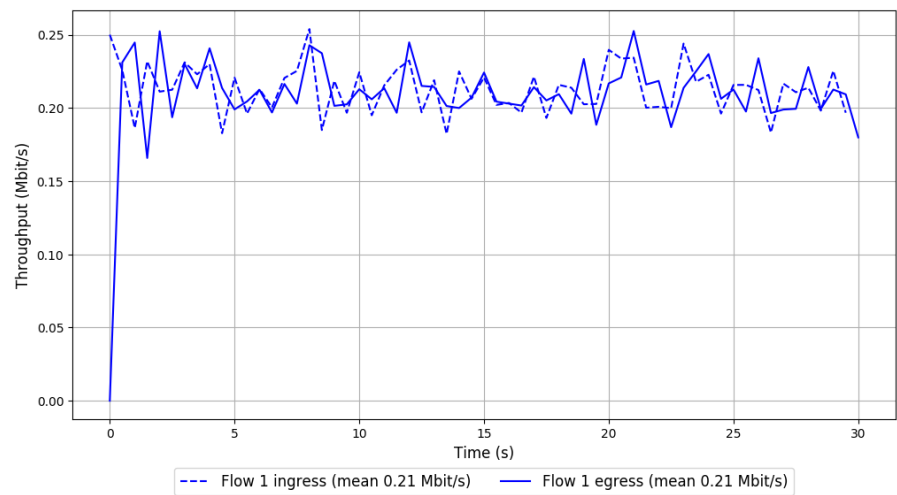
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 33.426 ms

Loss rate: 0.26%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-03-27 07:26:02

End at: 2019-03-27 07:26:32

Local clock offset: 0.23 ms

Remote clock offset: 3.239 ms

Below is generated by plot.py at 2019-03-27 08:46:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 33.470 ms

Loss rate: 0.26%

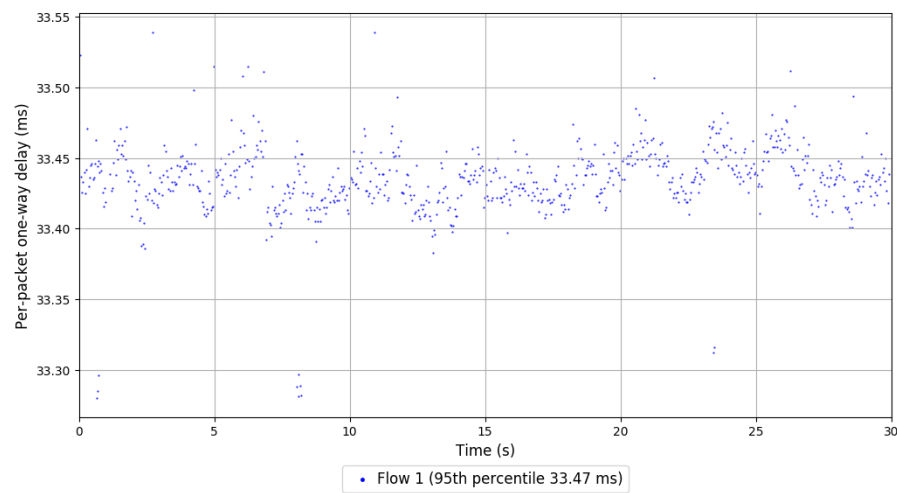
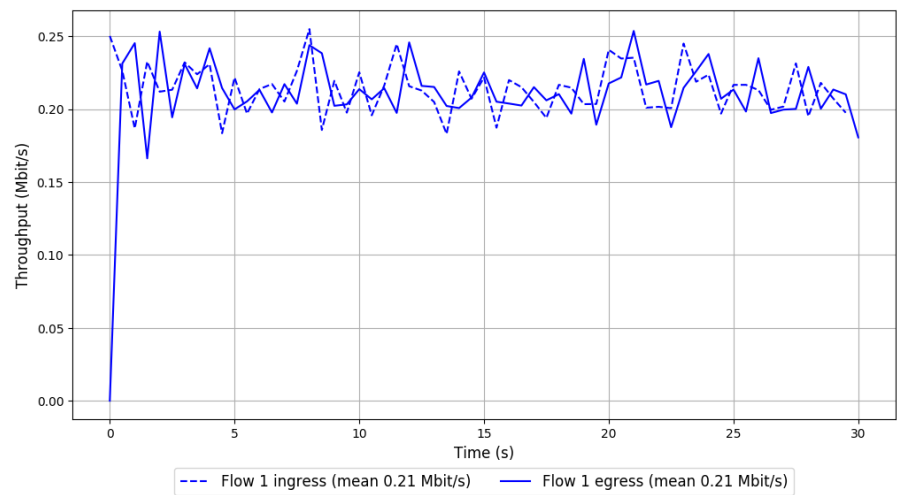
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 33.470 ms

Loss rate: 0.26%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-03-27 07:50:31

End at: 2019-03-27 07:51:02

Local clock offset: 0.315 ms

Remote clock offset: 2.982 ms

Below is generated by plot.py at 2019-03-27 08:46:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 33.474 ms

Loss rate: 0.26%

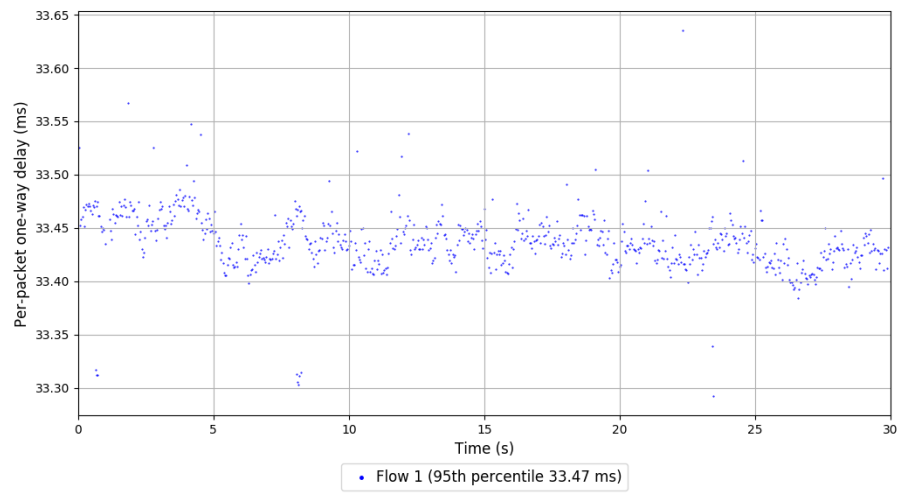
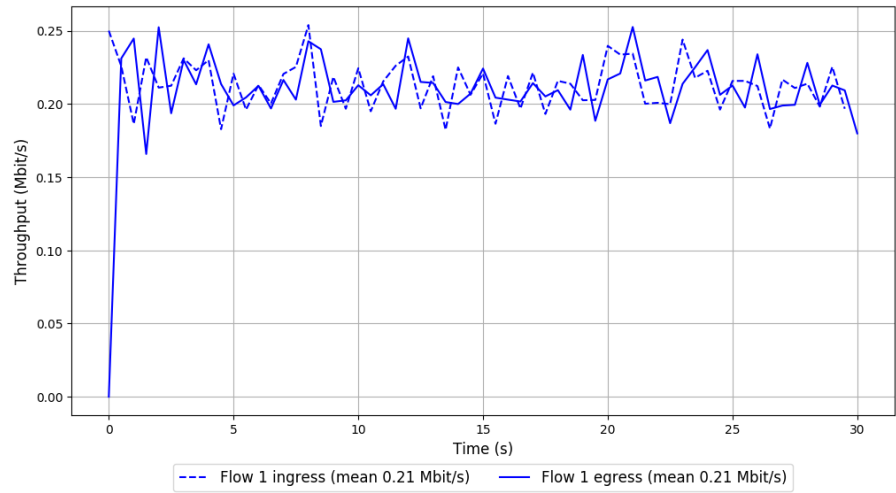
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 33.474 ms

Loss rate: 0.26%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-03-27 08:15:11

End at: 2019-03-27 08:15:41

Local clock offset: 0.44 ms

Remote clock offset: 2.017 ms

Below is generated by plot.py at 2019-03-27 08:46:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 33.511 ms

Loss rate: 0.26%

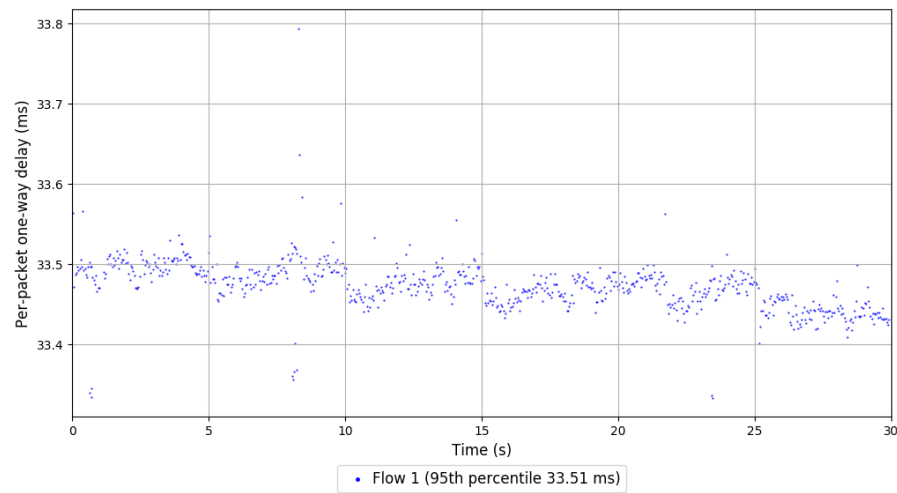
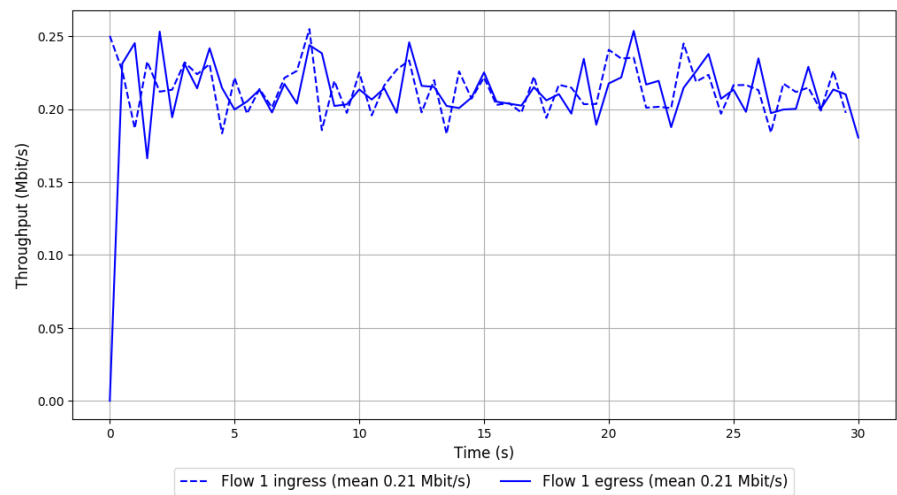
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 33.511 ms

Loss rate: 0.26%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-03-27 06:51:01

End at: 2019-03-27 06:51:31

Local clock offset: 2.797 ms

Remote clock offset: 1.753 ms

Below is generated by plot.py at 2019-03-27 08:46:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.08 Mbit/s

95th percentile per-packet one-way delay: 41.429 ms

Loss rate: 0.27%

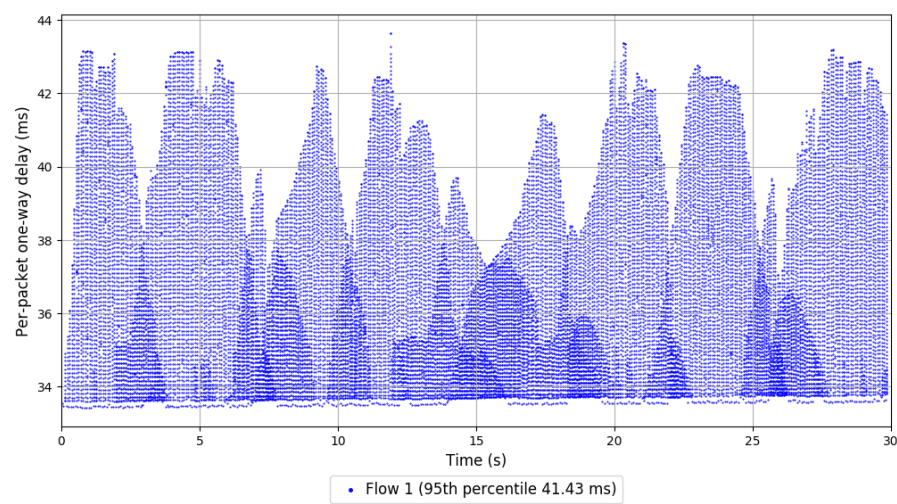
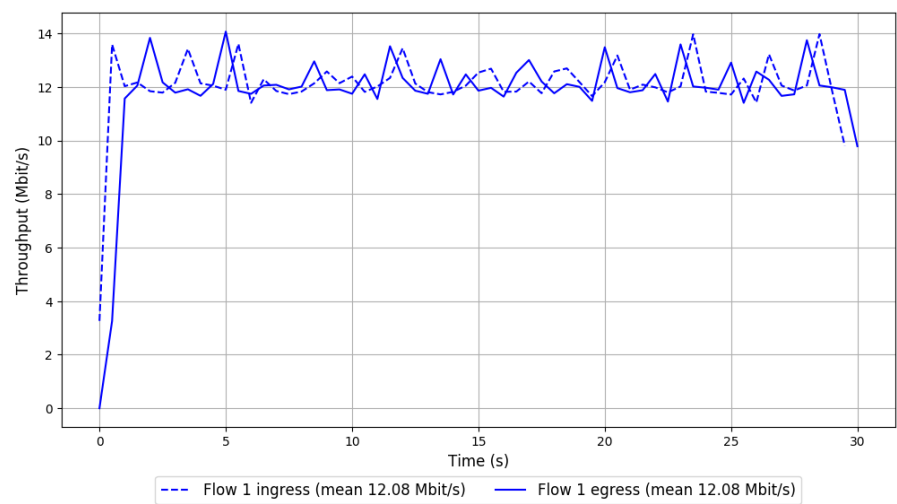
-- Flow 1:

Average throughput: 12.08 Mbit/s

95th percentile per-packet one-way delay: 41.429 ms

Loss rate: 0.27%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-03-27 07:15:33

End at: 2019-03-27 07:16:03

Local clock offset: 0.3 ms

Remote clock offset: 2.739 ms

Below is generated by plot.py at 2019-03-27 08:46:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.03 Mbit/s

95th percentile per-packet one-way delay: 41.193 ms

Loss rate: 0.27%

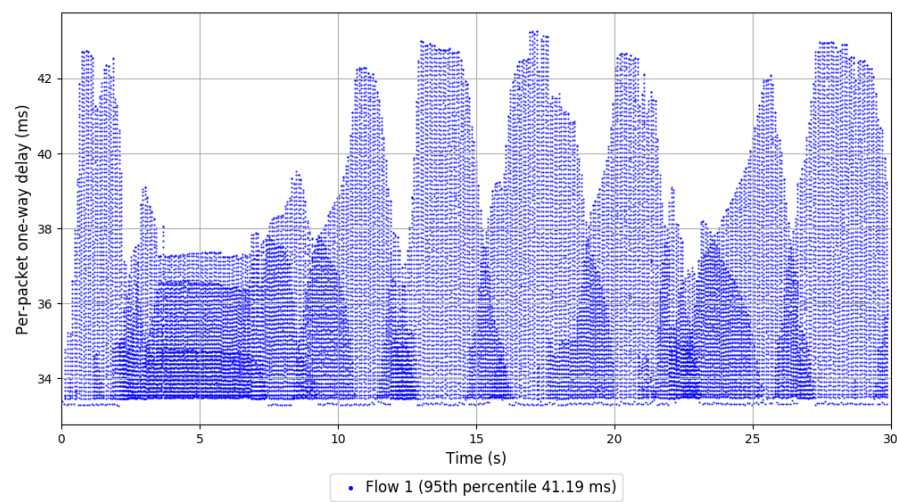
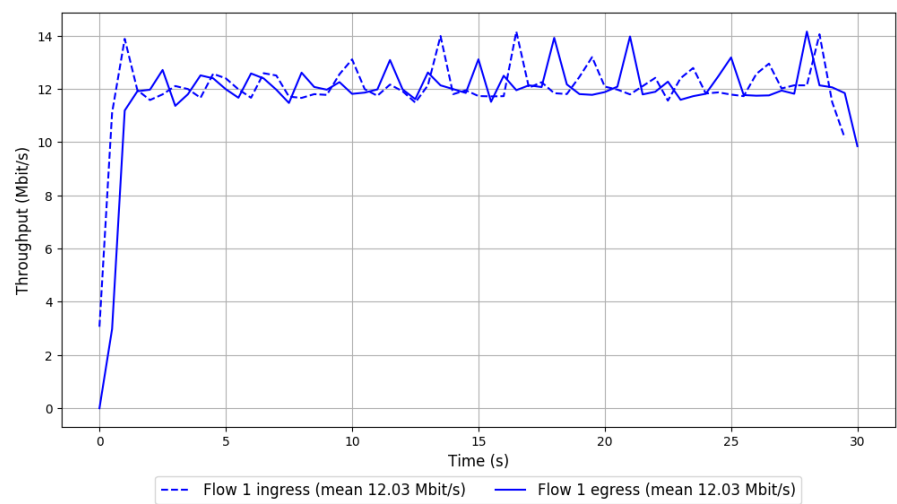
-- Flow 1:

Average throughput: 12.03 Mbit/s

95th percentile per-packet one-way delay: 41.193 ms

Loss rate: 0.27%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-03-27 07:40:03

End at: 2019-03-27 07:40:33

Local clock offset: 0.216 ms

Remote clock offset: 3.295 ms

Below is generated by plot.py at 2019-03-27 08:46:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.13 Mbit/s

95th percentile per-packet one-way delay: 41.531 ms

Loss rate: 0.27%

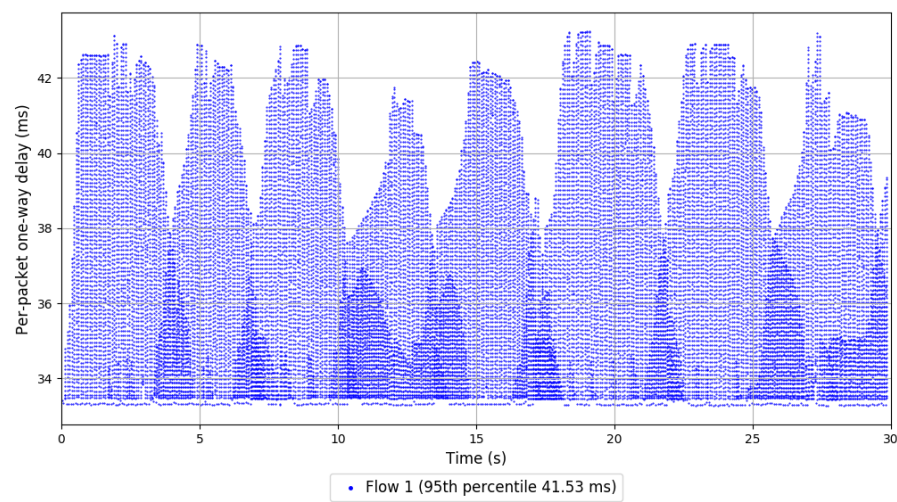
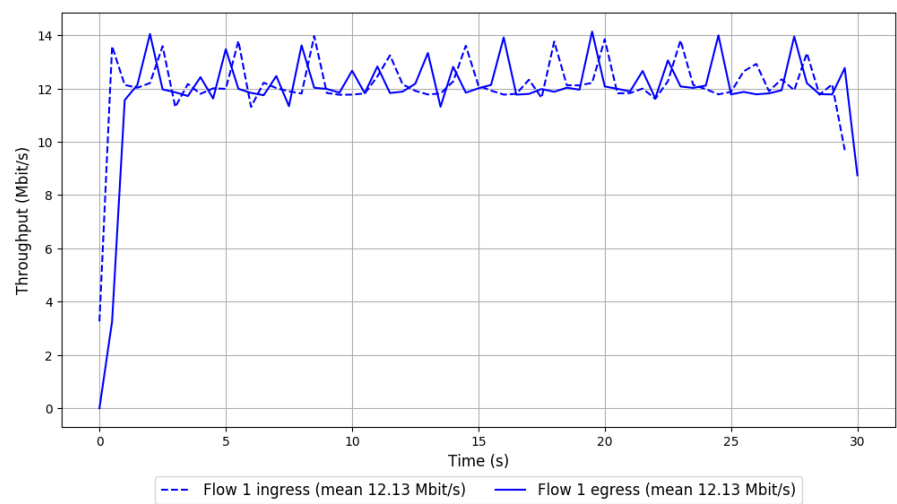
-- Flow 1:

Average throughput: 12.13 Mbit/s

95th percentile per-packet one-way delay: 41.531 ms

Loss rate: 0.27%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-03-27 08:04:42

End at: 2019-03-27 08:05:12

Local clock offset: 0.389 ms

Remote clock offset: 2.477 ms

Below is generated by plot.py at 2019-03-27 08:46:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.03 Mbit/s

95th percentile per-packet one-way delay: 41.142 ms

Loss rate: 0.27%

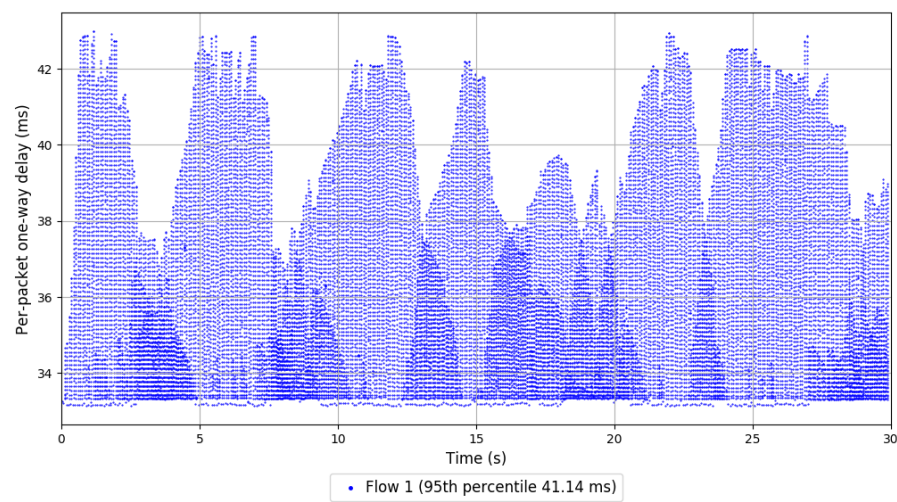
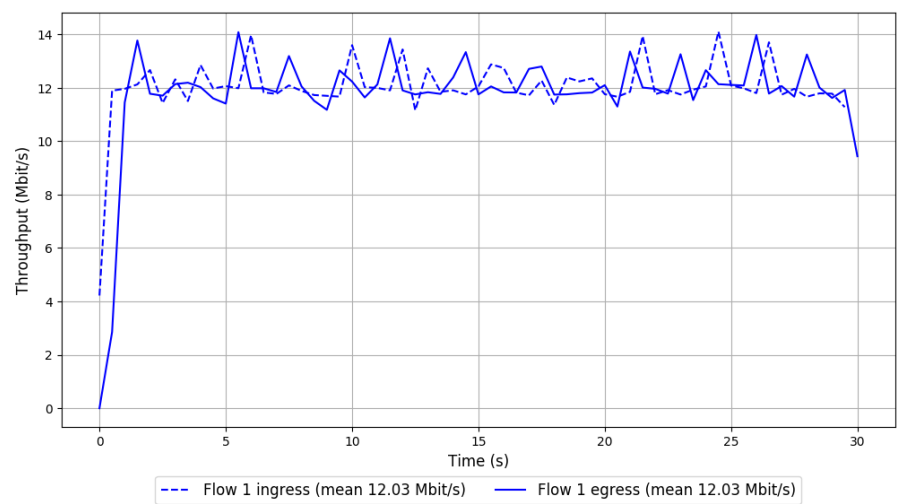
-- Flow 1:

Average throughput: 12.03 Mbit/s

95th percentile per-packet one-way delay: 41.142 ms

Loss rate: 0.27%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-03-27 08:29:13

End at: 2019-03-27 08:29:43

Local clock offset: 3.077 ms

Remote clock offset: 1.761 ms

Below is generated by plot.py at 2019-03-27 08:46:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.06 Mbit/s

95th percentile per-packet one-way delay: 41.110 ms

Loss rate: 0.23%

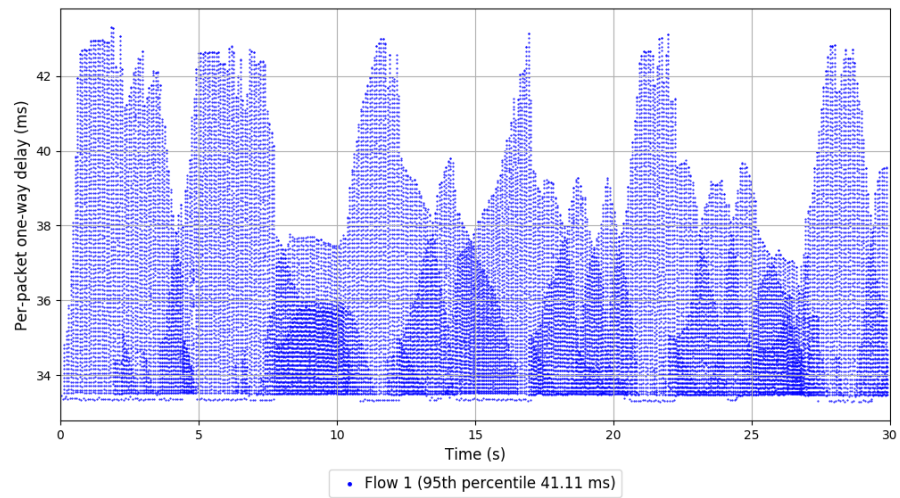
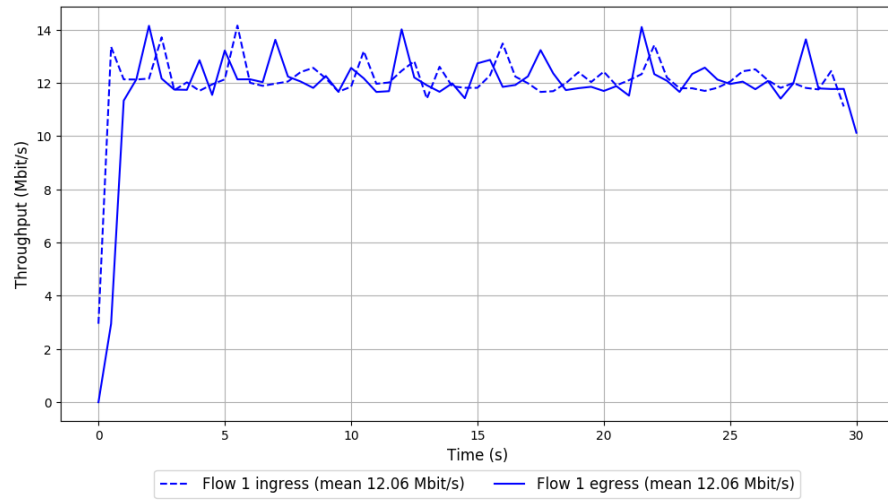
-- Flow 1:

Average throughput: 12.06 Mbit/s

95th percentile per-packet one-way delay: 41.110 ms

Loss rate: 0.23%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-03-27 06:46:15

End at: 2019-03-27 06:46:45

Local clock offset: 4.692 ms

Remote clock offset: 1.472 ms

Below is generated by plot.py at 2019-03-27 08:47:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.29 Mbit/s

95th percentile per-packet one-way delay: 45.155 ms

Loss rate: 0.22%

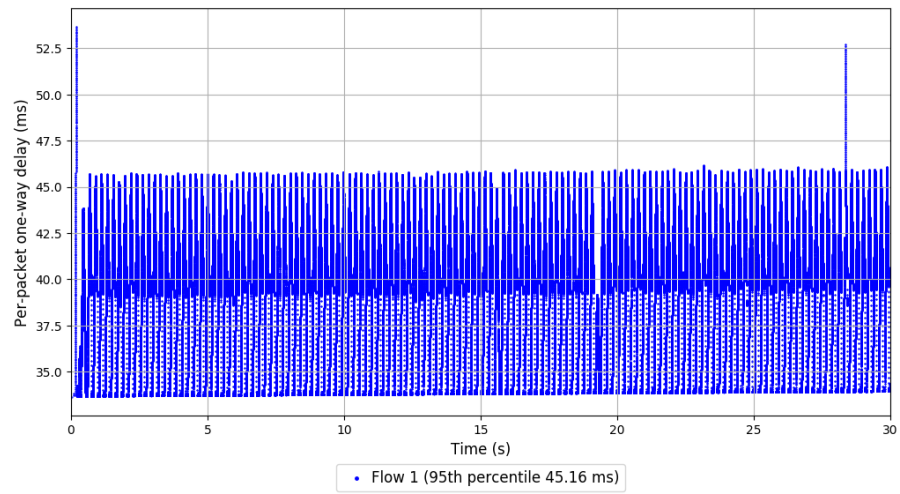
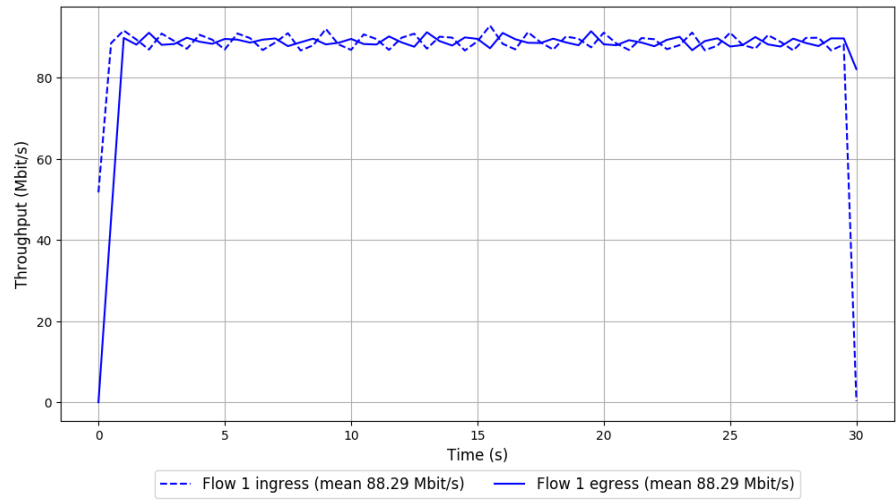
-- Flow 1:

Average throughput: 88.29 Mbit/s

95th percentile per-packet one-way delay: 45.155 ms

Loss rate: 0.22%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-03-27 07:10:49

End at: 2019-03-27 07:11:19

Local clock offset: 0.448 ms

Remote clock offset: 2.544 ms

Below is generated by plot.py at 2019-03-27 08:47:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.23 Mbit/s

95th percentile per-packet one-way delay: 44.840 ms

Loss rate: 0.22%

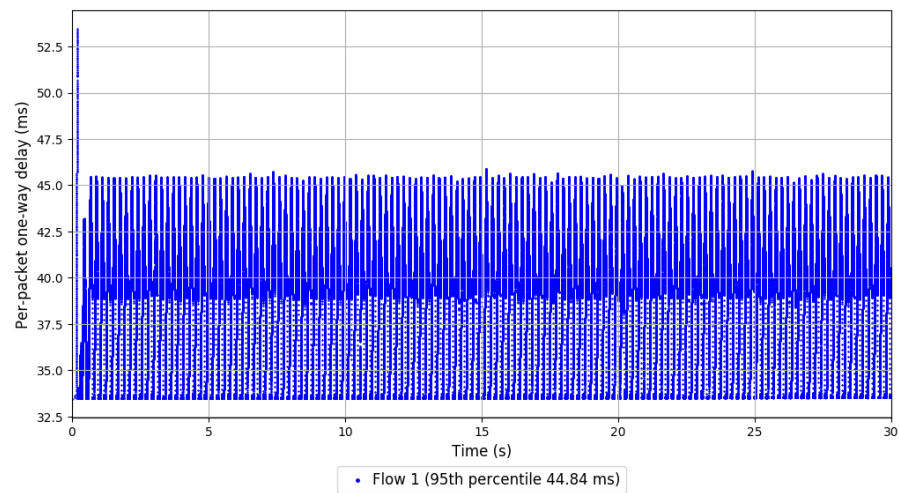
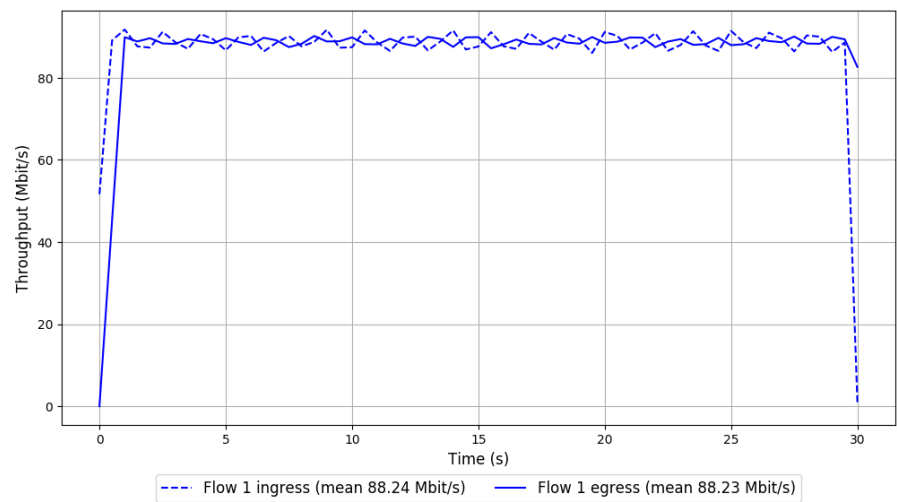
-- Flow 1:

Average throughput: 88.23 Mbit/s

95th percentile per-packet one-way delay: 44.840 ms

Loss rate: 0.22%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-03-27 07:35:18

End at: 2019-03-27 07:35:48

Local clock offset: 0.209 ms

Remote clock offset: 3.373 ms

Below is generated by plot.py at 2019-03-27 08:47:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.28 Mbit/s

95th percentile per-packet one-way delay: 44.834 ms

Loss rate: 0.20%

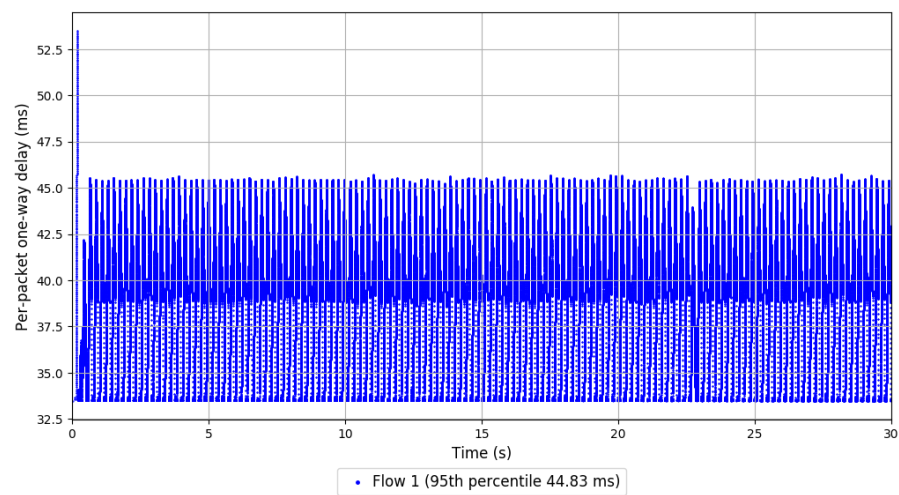
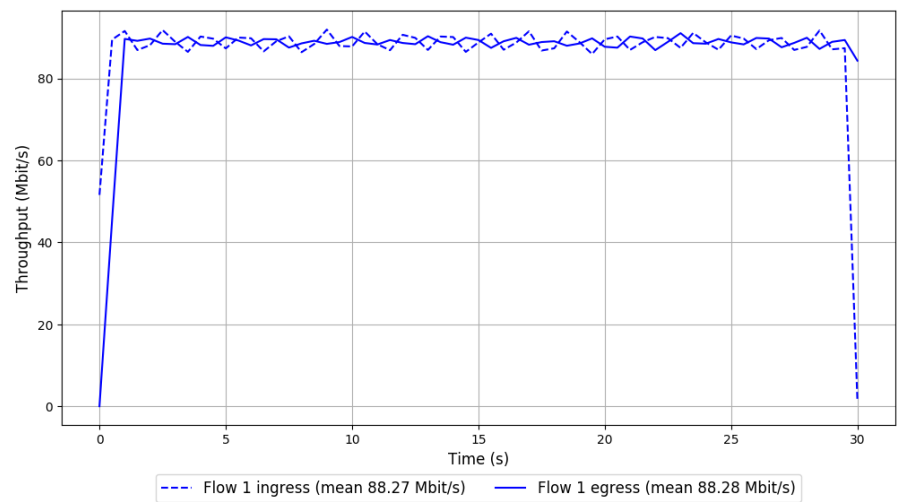
-- Flow 1:

Average throughput: 88.28 Mbit/s

95th percentile per-packet one-way delay: 44.834 ms

Loss rate: 0.20%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-03-27 07:59:58

End at: 2019-03-27 08:00:28

Local clock offset: 0.355 ms

Remote clock offset: 2.587 ms

Below is generated by plot.py at 2019-03-27 08:47:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.25 Mbit/s

95th percentile per-packet one-way delay: 44.725 ms

Loss rate: 0.23%

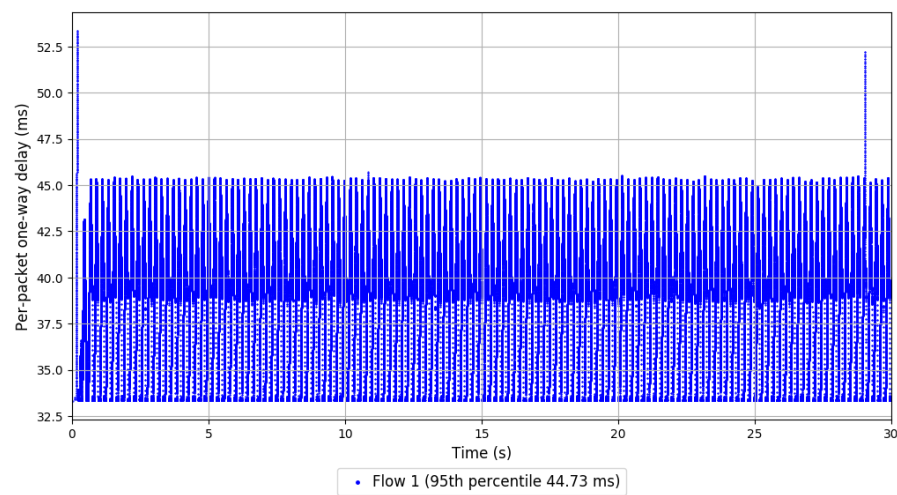
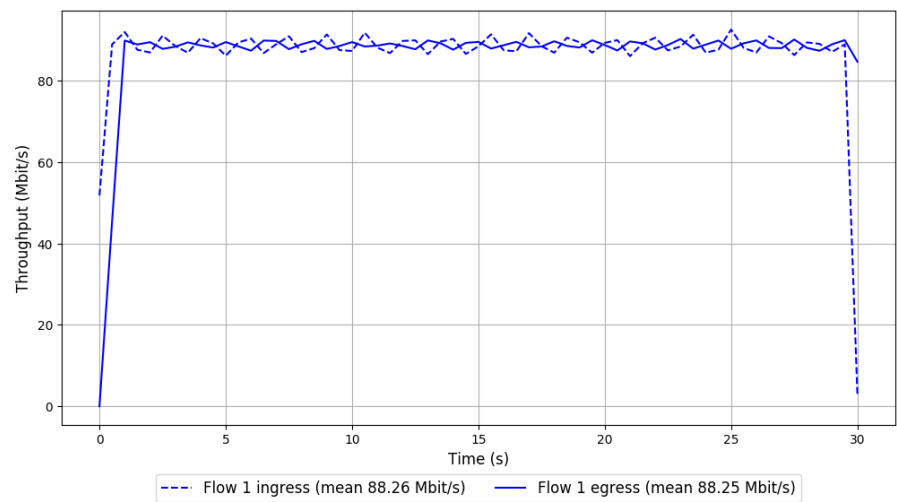
-- Flow 1:

Average throughput: 88.25 Mbit/s

95th percentile per-packet one-way delay: 44.725 ms

Loss rate: 0.23%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-03-27 08:24:29

End at: 2019-03-27 08:24:59

Local clock offset: 2.442 ms

Remote clock offset: 2.075 ms

Below is generated by plot.py at 2019-03-27 08:47:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.27 Mbit/s

95th percentile per-packet one-way delay: 44.478 ms

Loss rate: 0.22%

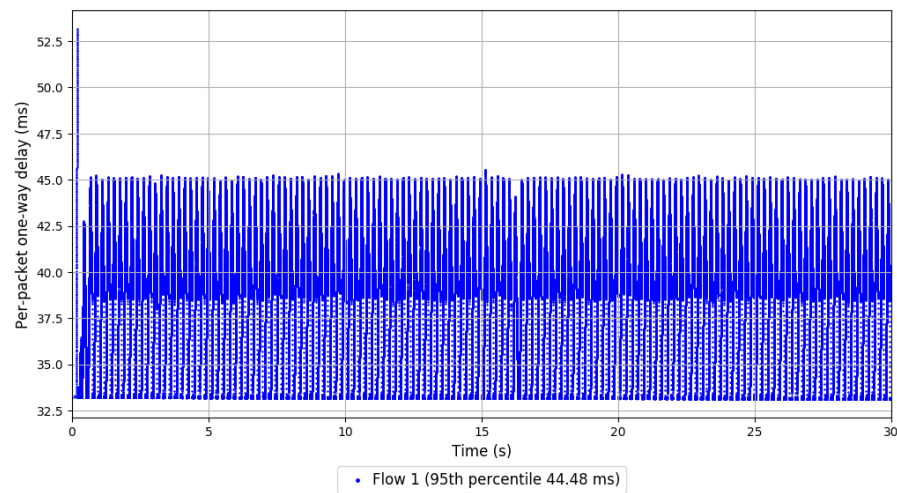
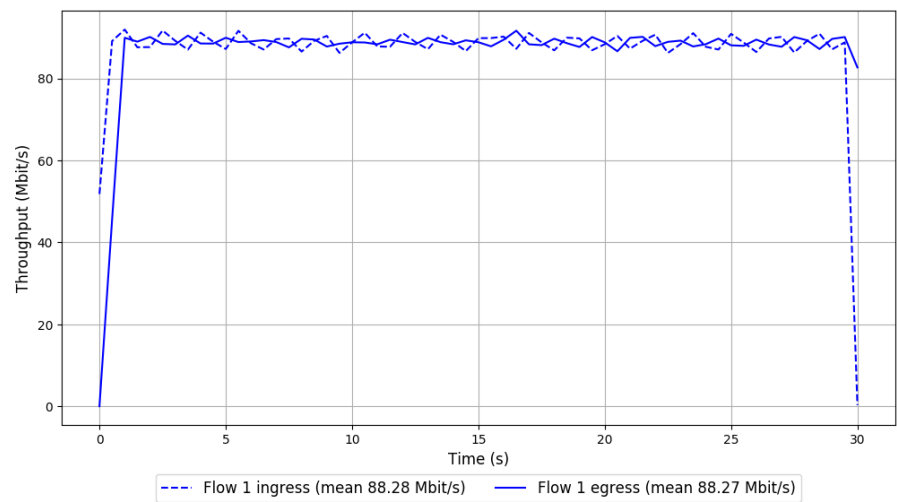
-- Flow 1:

Average throughput: 88.27 Mbit/s

95th percentile per-packet one-way delay: 44.478 ms

Loss rate: 0.22%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-03-27 06:42:43

End at: 2019-03-27 06:43:14

Local clock offset: 4.612 ms

Remote clock offset: 1.276 ms

Below is generated by plot.py at 2019-03-27 08:47:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.97 Mbit/s

95th percentile per-packet one-way delay: 34.802 ms

Loss rate: 0.28%

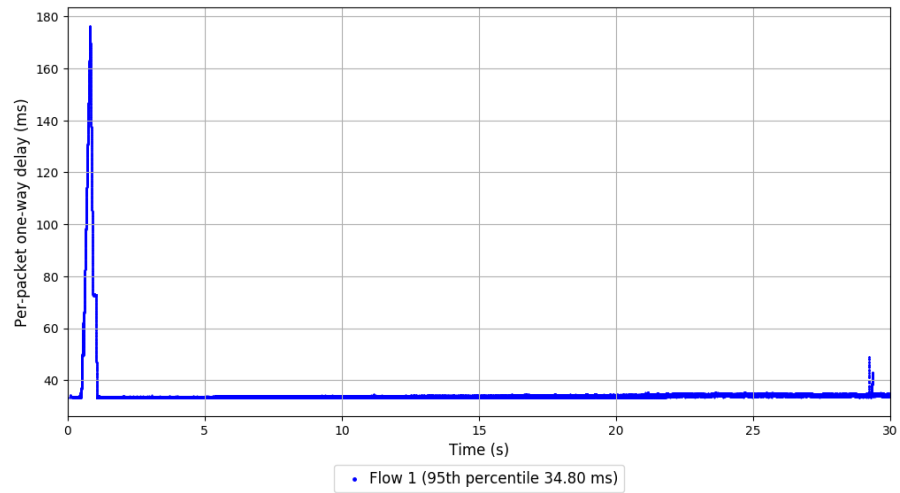
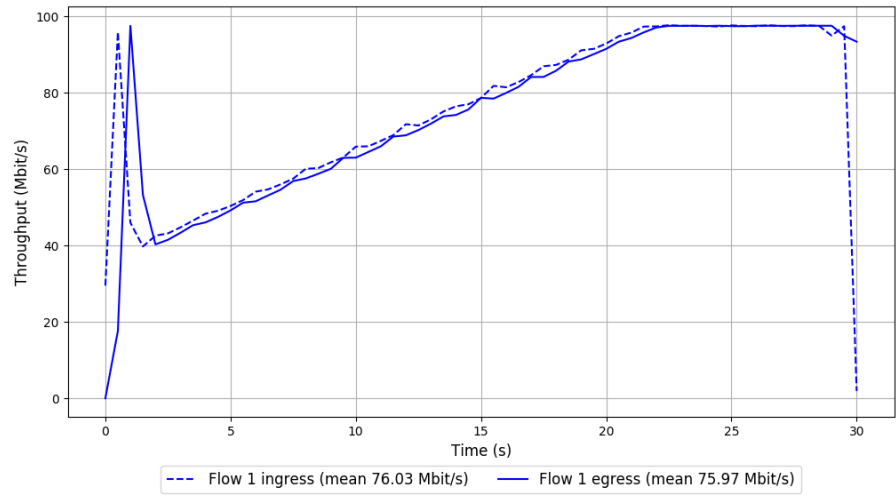
-- Flow 1:

Average throughput: 75.97 Mbit/s

95th percentile per-packet one-way delay: 34.802 ms

Loss rate: 0.28%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-03-27 07:07:19

End at: 2019-03-27 07:07:49

Local clock offset: 0.585 ms

Remote clock offset: 2.458 ms

Below is generated by plot.py at 2019-03-27 08:47:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.81 Mbit/s

95th percentile per-packet one-way delay: 34.890 ms

Loss rate: 0.28%

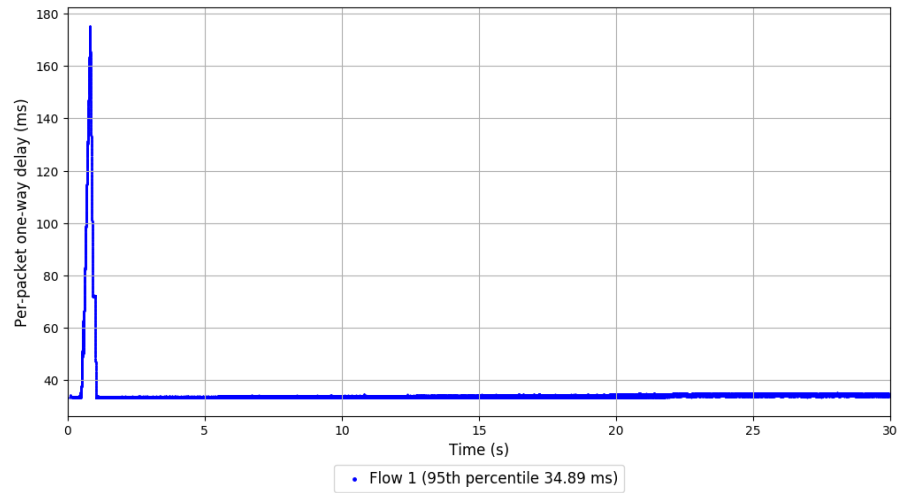
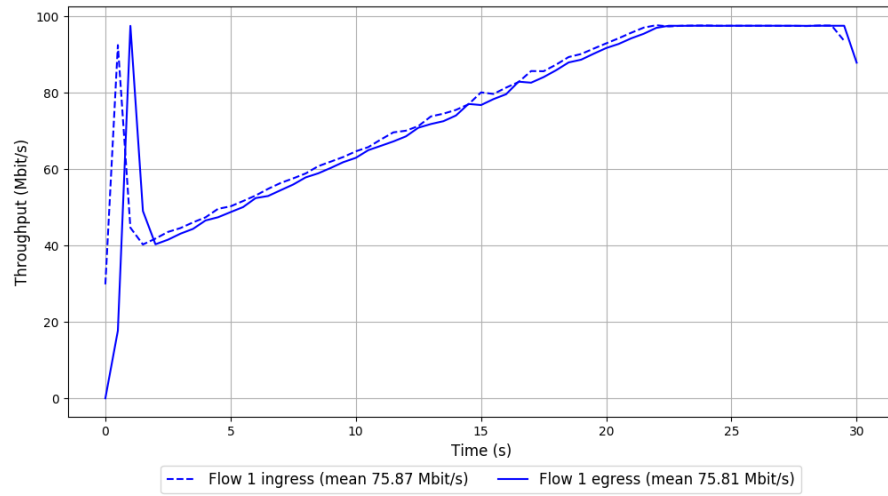
-- Flow 1:

Average throughput: 75.81 Mbit/s

95th percentile per-packet one-way delay: 34.890 ms

Loss rate: 0.28%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-03-27 07:31:49

End at: 2019-03-27 07:32:19

Local clock offset: 0.21 ms

Remote clock offset: 3.427 ms

Below is generated by plot.py at 2019-03-27 08:47:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.50 Mbit/s

95th percentile per-packet one-way delay: 34.397 ms

Loss rate: 0.31%

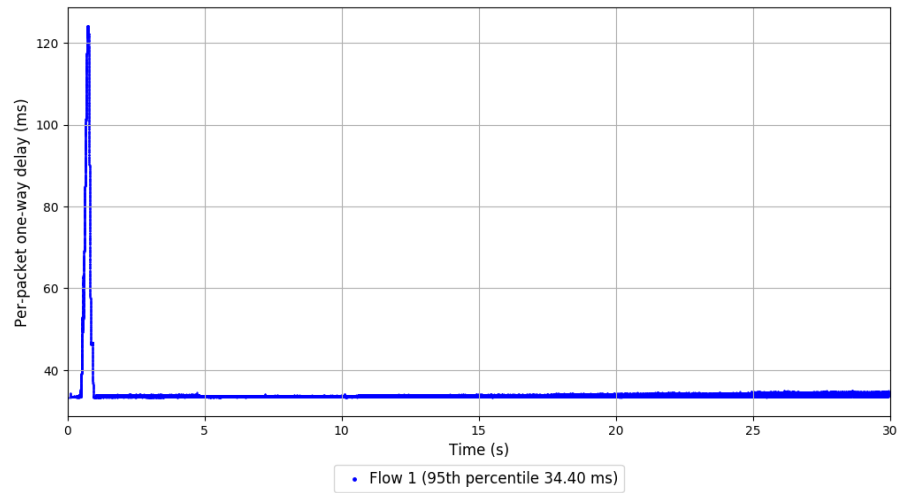
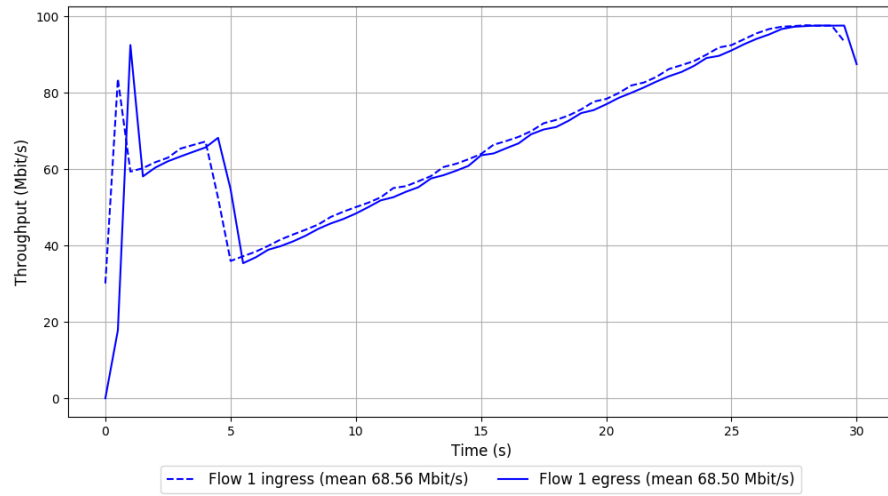
-- Flow 1:

Average throughput: 68.50 Mbit/s

95th percentile per-packet one-way delay: 34.397 ms

Loss rate: 0.31%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-03-27 07:56:28

End at: 2019-03-27 07:56:58

Local clock offset: 0.347 ms

Remote clock offset: 2.707 ms

Below is generated by plot.py at 2019-03-27 08:47:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.98 Mbit/s

95th percentile per-packet one-way delay: 34.733 ms

Loss rate: 0.25%

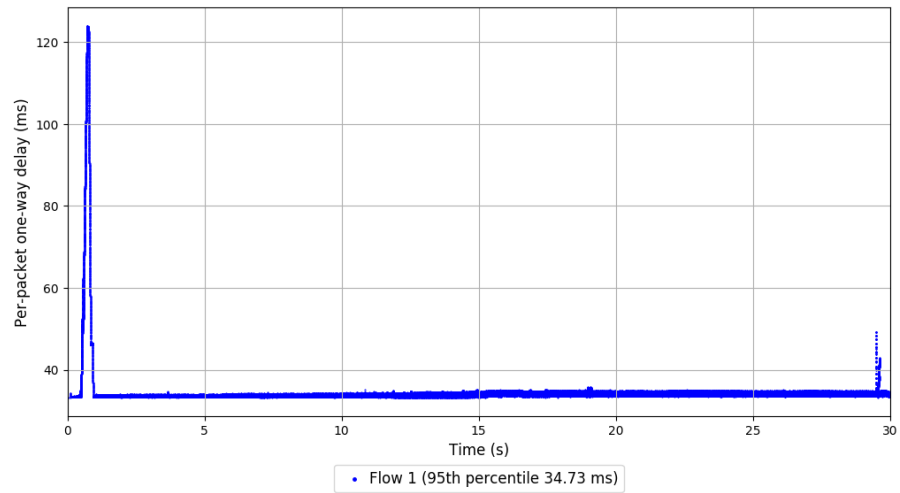
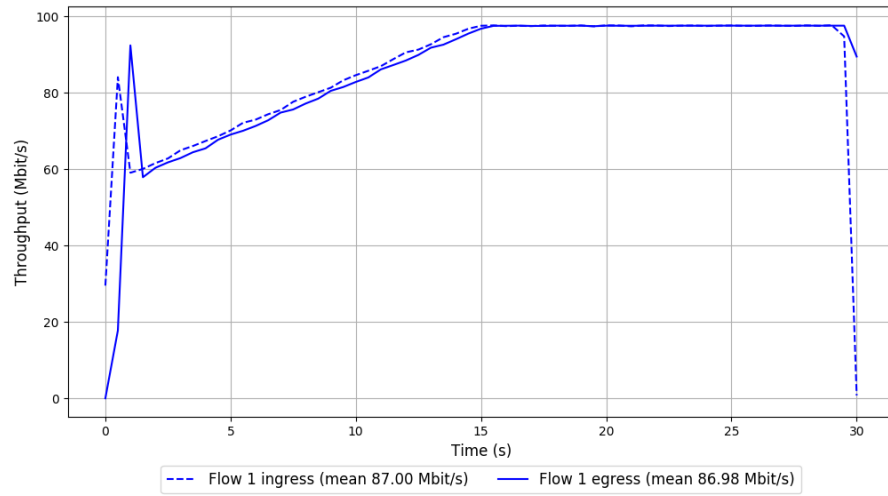
-- Flow 1:

Average throughput: 86.98 Mbit/s

95th percentile per-packet one-way delay: 34.733 ms

Loss rate: 0.25%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-03-27 08:20:58

End at: 2019-03-27 08:21:28

Local clock offset: 1.789 ms

Remote clock offset: 2.072 ms

Below is generated by plot.py at 2019-03-27 08:48:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.92 Mbit/s

95th percentile per-packet one-way delay: 34.632 ms

Loss rate: 0.25%

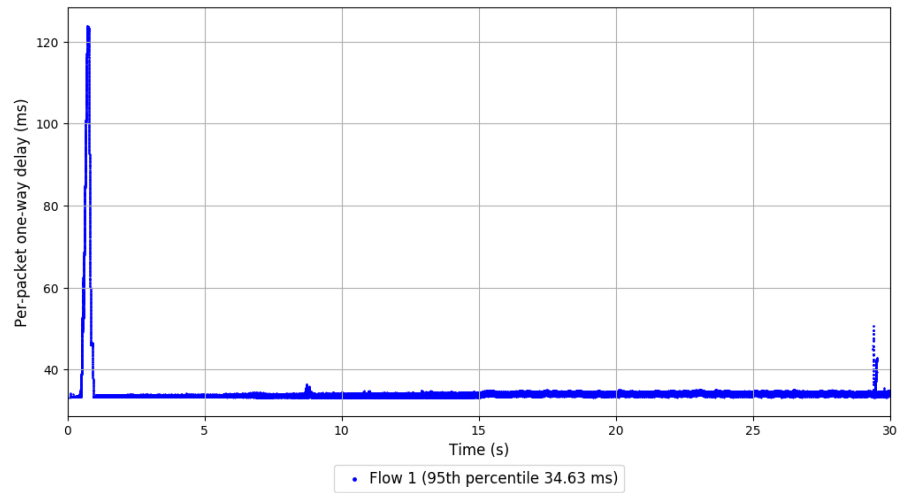
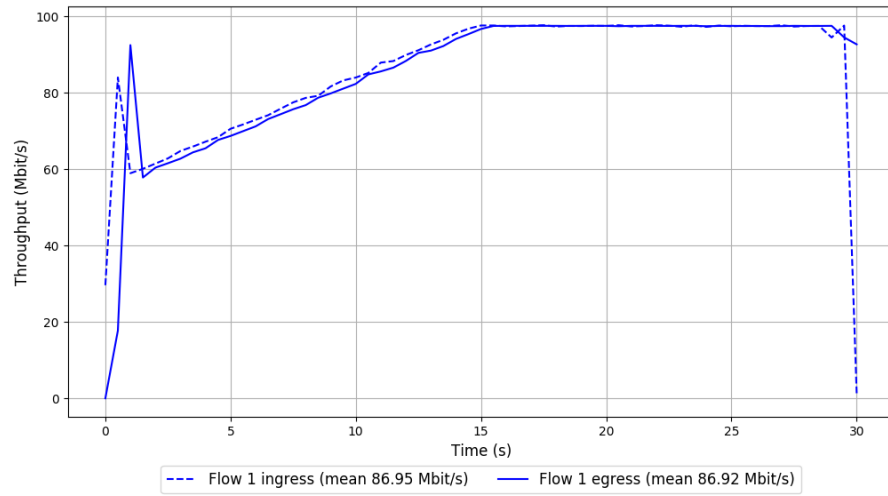
-- Flow 1:

Average throughput: 86.92 Mbit/s

95th percentile per-packet one-way delay: 34.632 ms

Loss rate: 0.25%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-03-27 06:33:24

End at: 2019-03-27 06:33:54

Local clock offset: 3.903 ms

Remote clock offset: 0.75 ms

Below is generated by plot.py at 2019-03-27 08:48:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.00 Mbit/s

95th percentile per-packet one-way delay: 74.924 ms

Loss rate: 0.48%

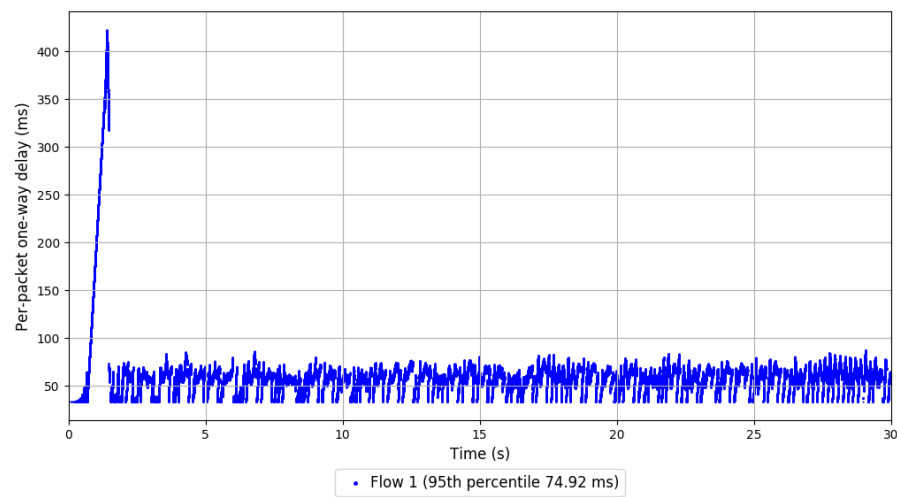
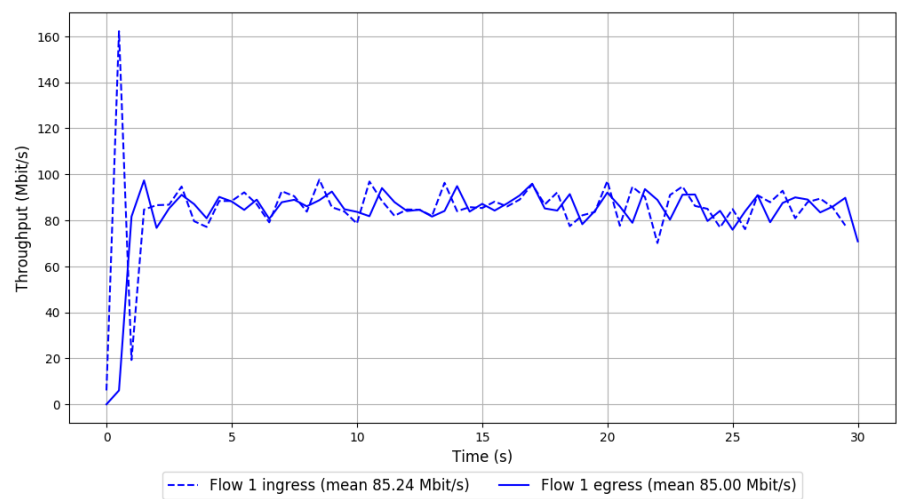
-- Flow 1:

Average throughput: 85.00 Mbit/s

95th percentile per-packet one-way delay: 74.924 ms

Loss rate: 0.48%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-03-27 06:58:02

End at: 2019-03-27 06:58:32

Local clock offset: 1.357 ms

Remote clock offset: 2.061 ms

Below is generated by plot.py at 2019-03-27 08:48:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.69 Mbit/s

95th percentile per-packet one-way delay: 74.446 ms

Loss rate: 0.35%

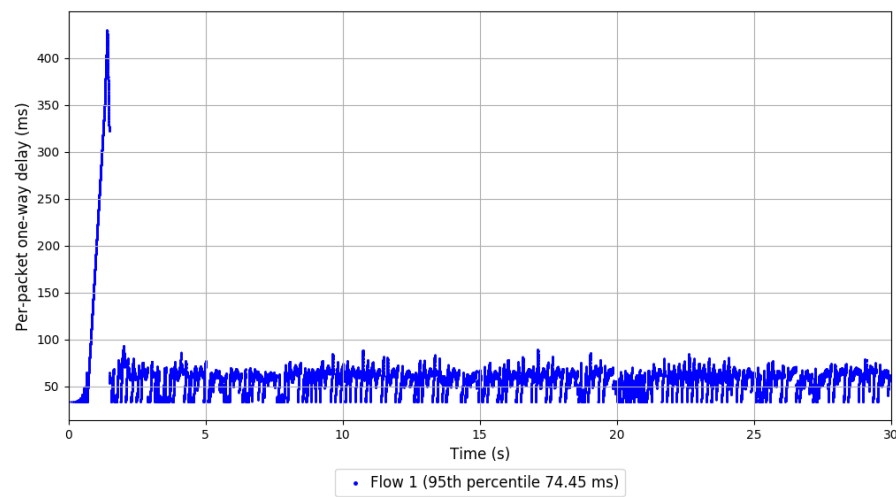
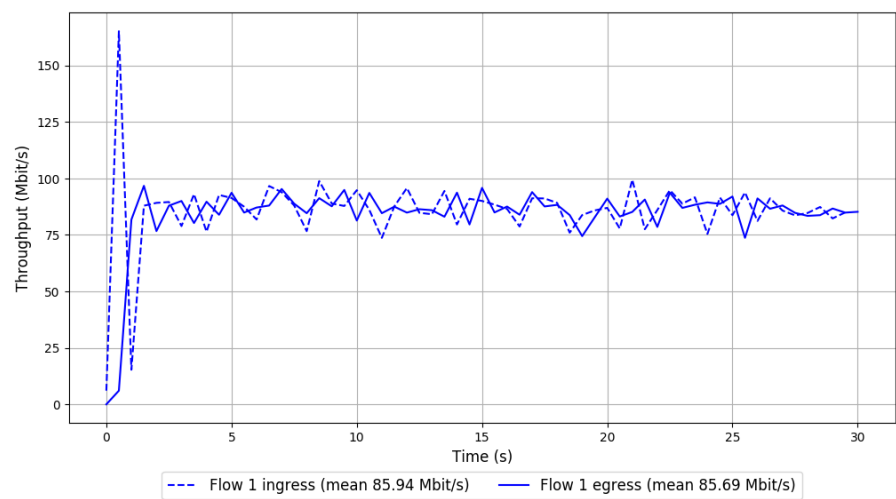
-- Flow 1:

Average throughput: 85.69 Mbit/s

95th percentile per-packet one-way delay: 74.446 ms

Loss rate: 0.35%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-03-27 07:22:31

End at: 2019-03-27 07:23:01

Local clock offset: 0.256 ms

Remote clock offset: 3.015 ms

Below is generated by plot.py at 2019-03-27 08:48:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.93 Mbit/s

95th percentile per-packet one-way delay: 74.047 ms

Loss rate: 0.35%

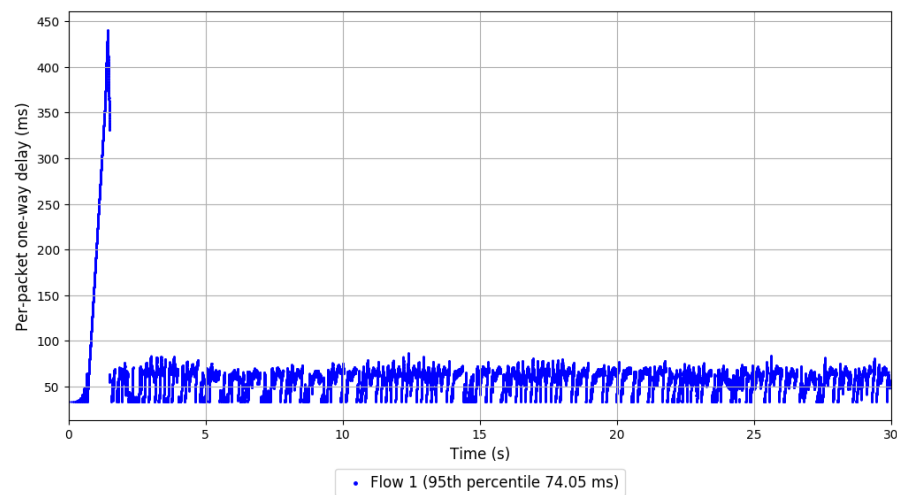
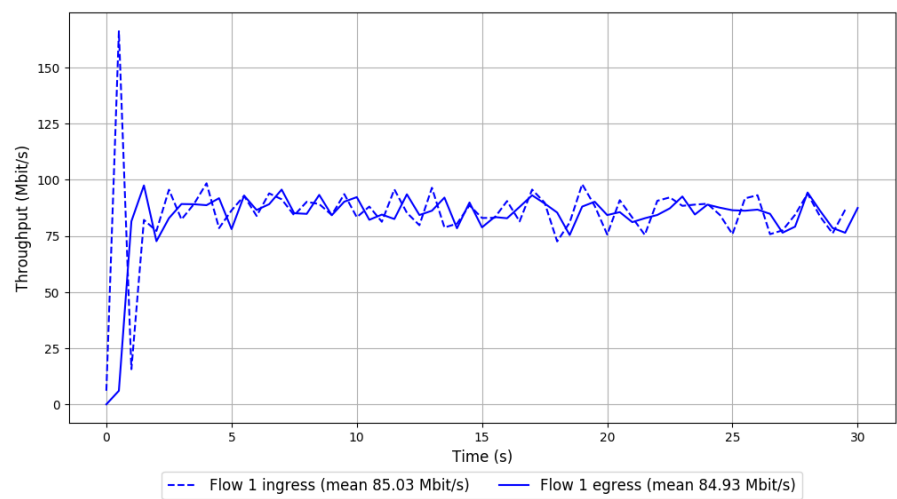
-- Flow 1:

Average throughput: 84.93 Mbit/s

95th percentile per-packet one-way delay: 74.047 ms

Loss rate: 0.35%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-03-27 07:47:01

End at: 2019-03-27 07:47:31

Local clock offset: 0.259 ms

Remote clock offset: 3.112 ms

Below is generated by plot.py at 2019-03-27 08:48:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.14 Mbit/s

95th percentile per-packet one-way delay: 76.452 ms

Loss rate: 0.52%

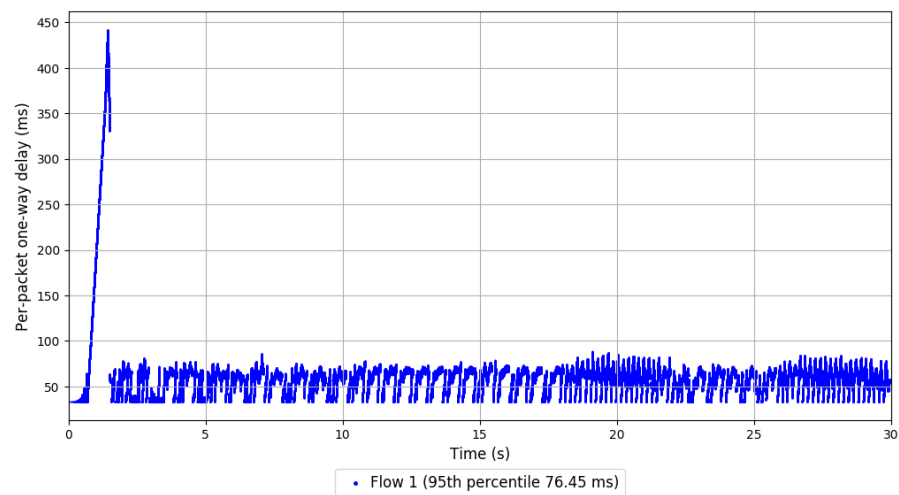
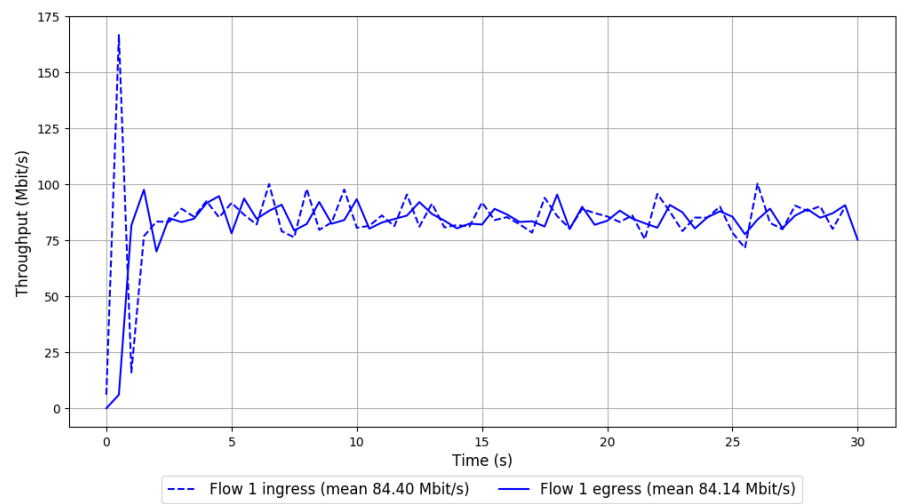
-- Flow 1:

Average throughput: 84.14 Mbit/s

95th percentile per-packet one-way delay: 76.452 ms

Loss rate: 0.52%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-03-27 08:11:40

End at: 2019-03-27 08:12:10

Local clock offset: 0.412 ms

Remote clock offset: 2.297 ms

Below is generated by plot.py at 2019-03-27 08:48:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.87 Mbit/s

95th percentile per-packet one-way delay: 74.912 ms

Loss rate: 0.47%

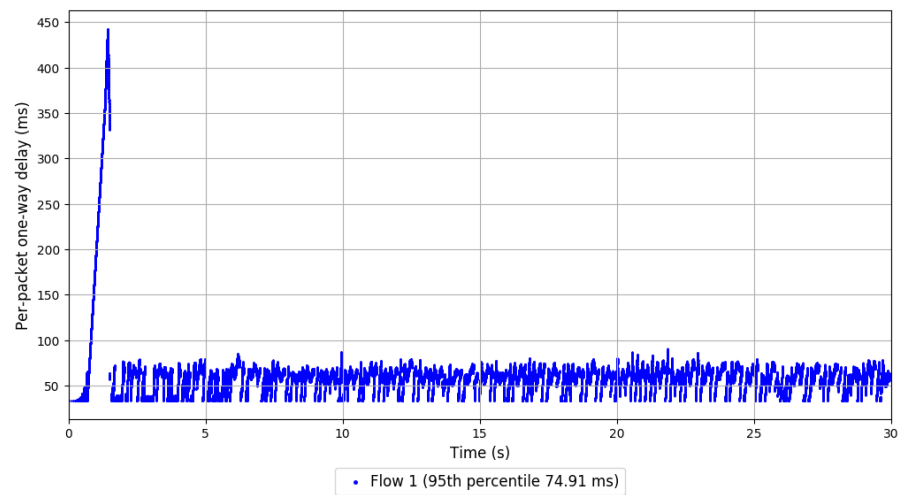
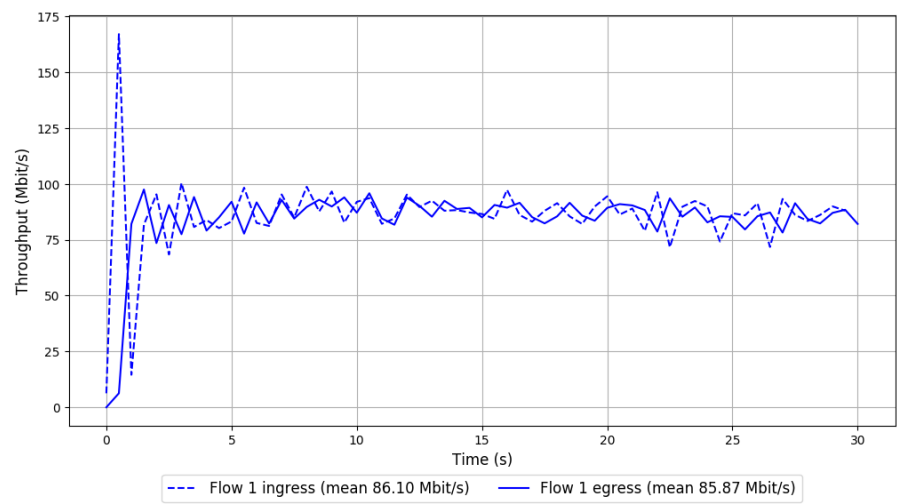
-- Flow 1:

Average throughput: 85.87 Mbit/s

95th percentile per-packet one-way delay: 74.912 ms

Loss rate: 0.47%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-03-27 06:39:12

End at: 2019-03-27 06:39:42

Local clock offset: 4.371 ms

Remote clock offset: 1.06 ms

Below is generated by plot.py at 2019-03-27 08:48:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.51 Mbit/s

95th percentile per-packet one-way delay: 34.601 ms

Loss rate: 0.24%

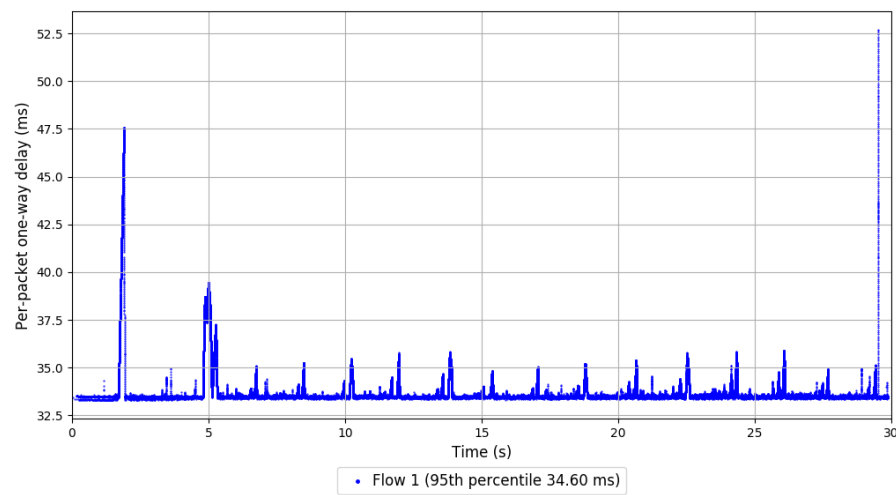
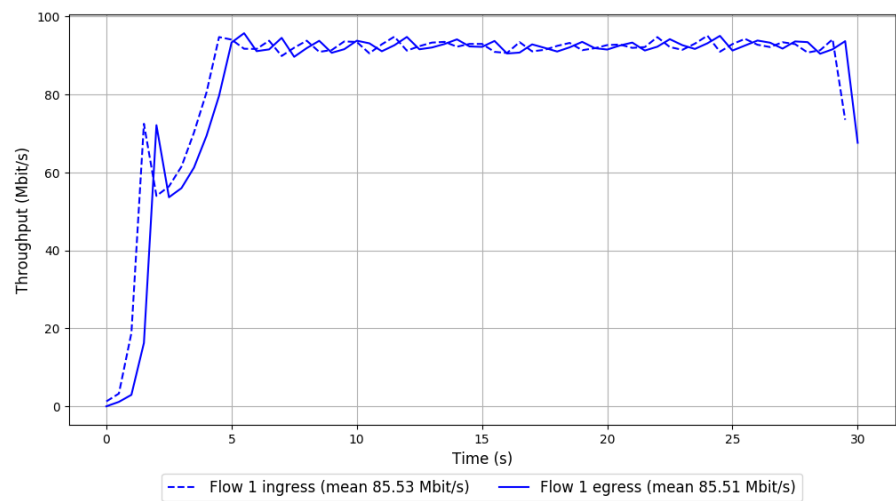
-- Flow 1:

Average throughput: 85.51 Mbit/s

95th percentile per-packet one-way delay: 34.601 ms

Loss rate: 0.24%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-03-27 07:03:50

End at: 2019-03-27 07:04:20

Local clock offset: 0.804 ms

Remote clock offset: 2.284 ms

Below is generated by plot.py at 2019-03-27 08:48:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.48 Mbit/s

95th percentile per-packet one-way delay: 34.733 ms

Loss rate: 0.23%

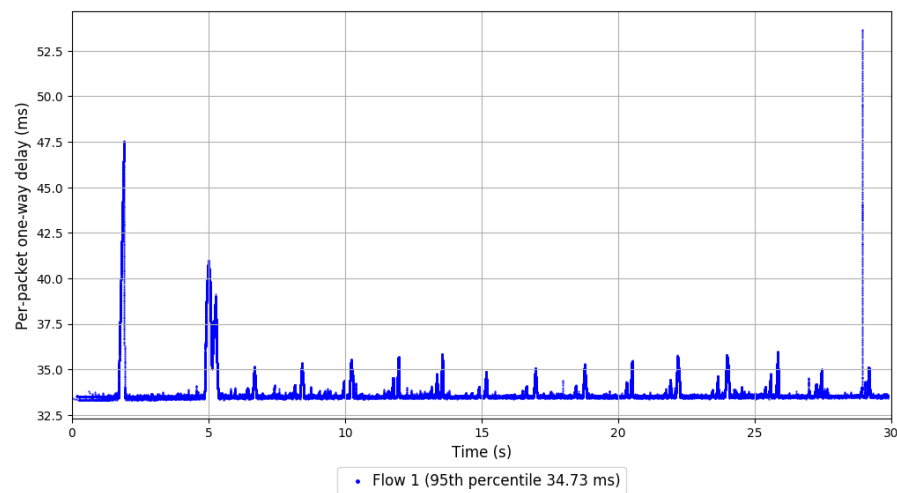
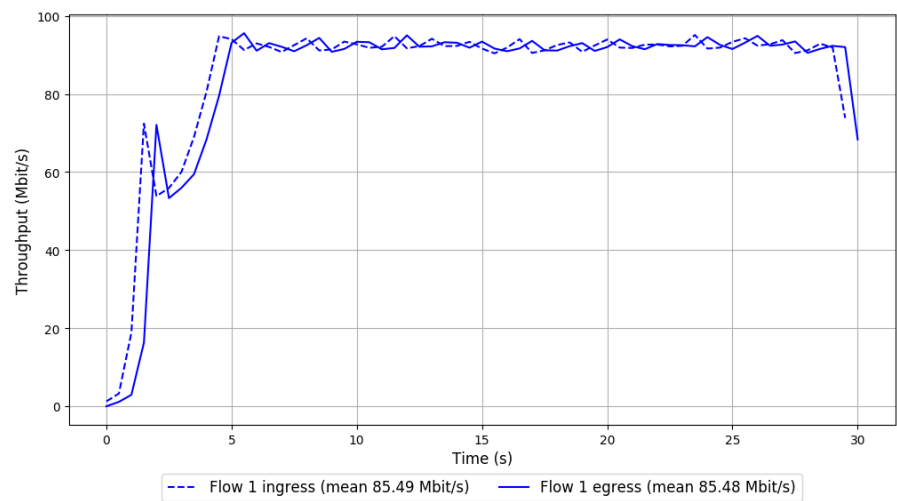
-- Flow 1:

Average throughput: 85.48 Mbit/s

95th percentile per-packet one-way delay: 34.733 ms

Loss rate: 0.23%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-03-27 07:28:18

End at: 2019-03-27 07:28:48

Local clock offset: 0.212 ms

Remote clock offset: 3.29 ms

Below is generated by plot.py at 2019-03-27 08:49:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.94 Mbit/s

95th percentile per-packet one-way delay: 35.330 ms

Loss rate: 0.26%

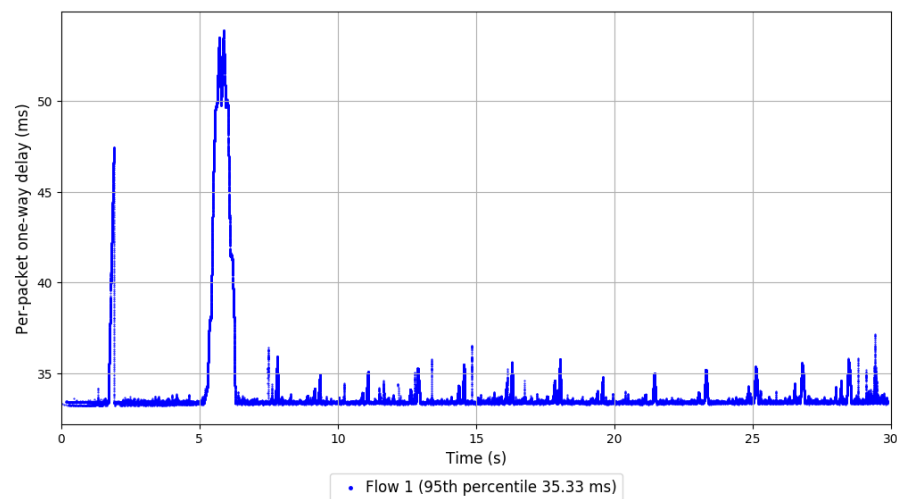
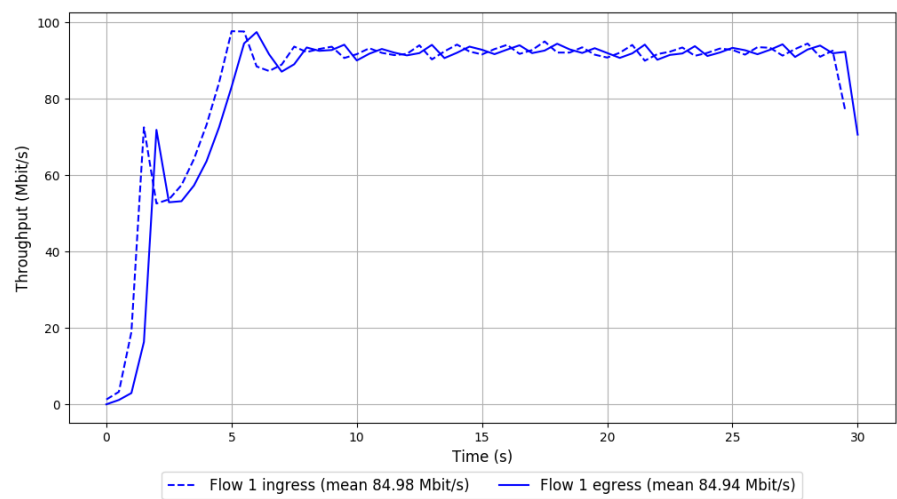
-- Flow 1:

Average throughput: 84.94 Mbit/s

95th percentile per-packet one-way delay: 35.330 ms

Loss rate: 0.26%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-03-27 07:52:48

End at: 2019-03-27 07:53:18

Local clock offset: 0.321 ms

Remote clock offset: 3.025 ms

Below is generated by plot.py at 2019-03-27 08:49:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.90 Mbit/s

95th percentile per-packet one-way delay: 35.206 ms

Loss rate: 0.24%

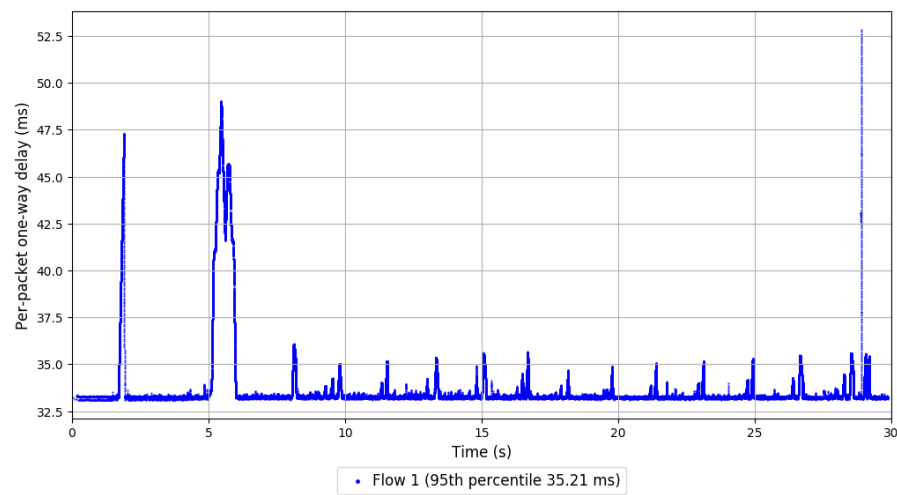
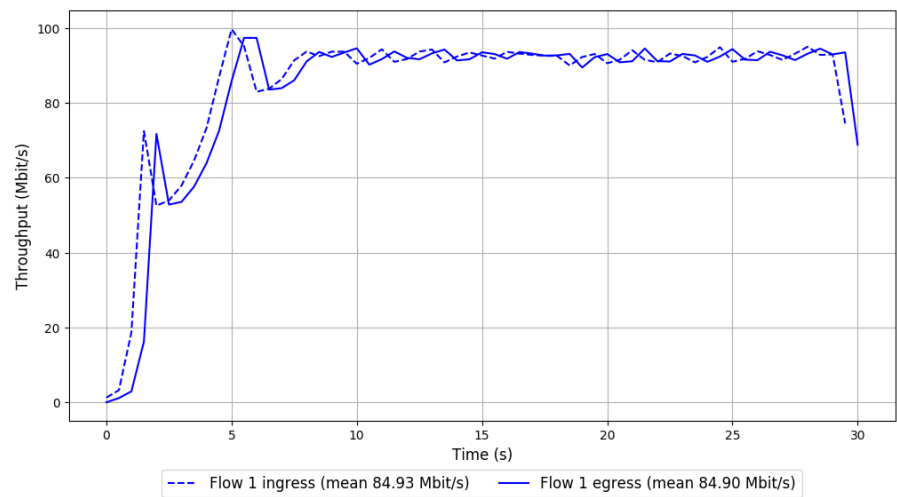
-- Flow 1:

Average throughput: 84.90 Mbit/s

95th percentile per-packet one-way delay: 35.206 ms

Loss rate: 0.24%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-03-27 08:17:27

End at: 2019-03-27 08:17:57

Local clock offset: 0.938 ms

Remote clock offset: 1.946 ms

Below is generated by plot.py at 2019-03-27 08:49:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.90 Mbit/s

95th percentile per-packet one-way delay: 35.429 ms

Loss rate: 0.23%

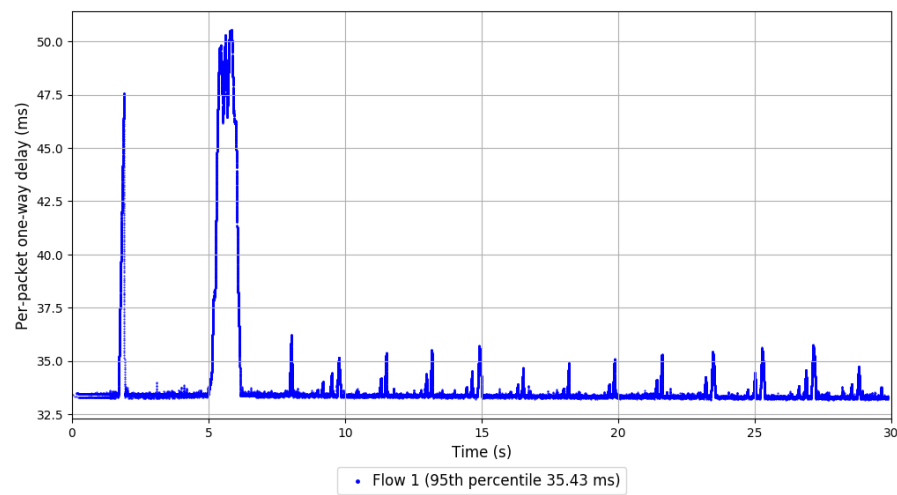
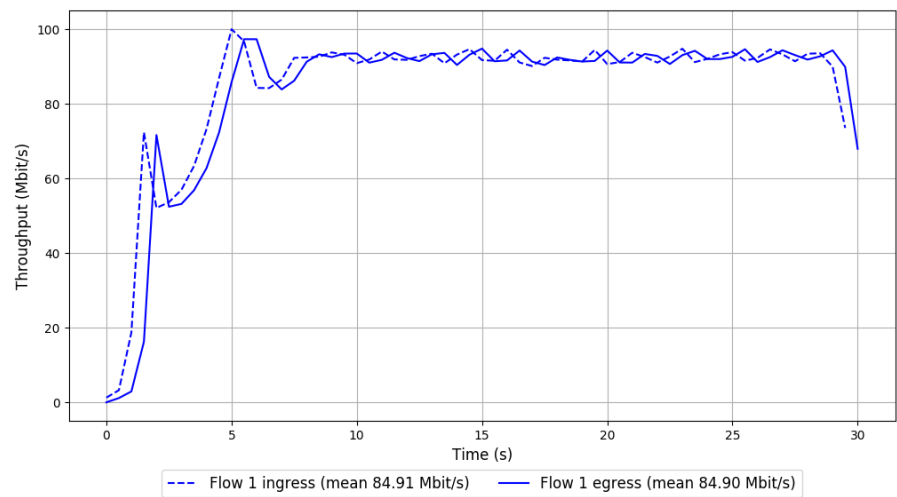
-- Flow 1:

Average throughput: 84.90 Mbit/s

95th percentile per-packet one-way delay: 35.429 ms

Loss rate: 0.23%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-03-27 06:53:20

End at: 2019-03-27 06:53:50

Local clock offset: 2.152 ms

Remote clock offset: 1.914 ms

Below is generated by plot.py at 2019-03-27 08:49:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 33.980 ms

Loss rate: 0.24%

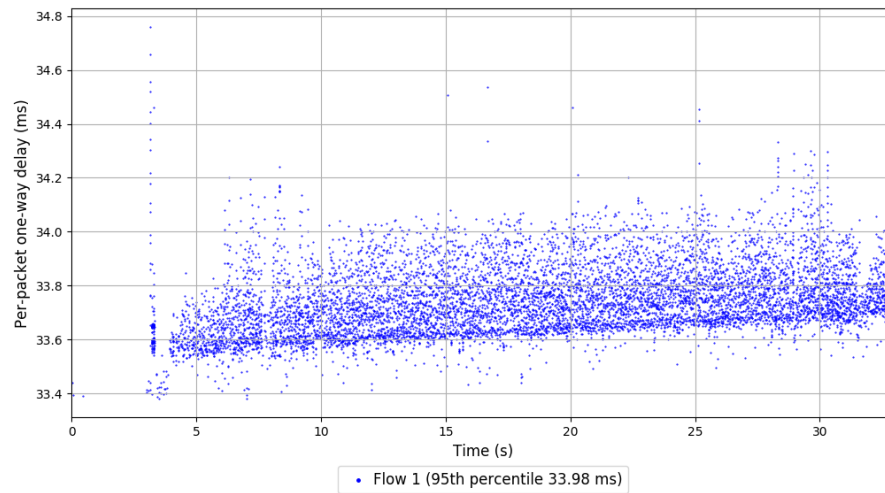
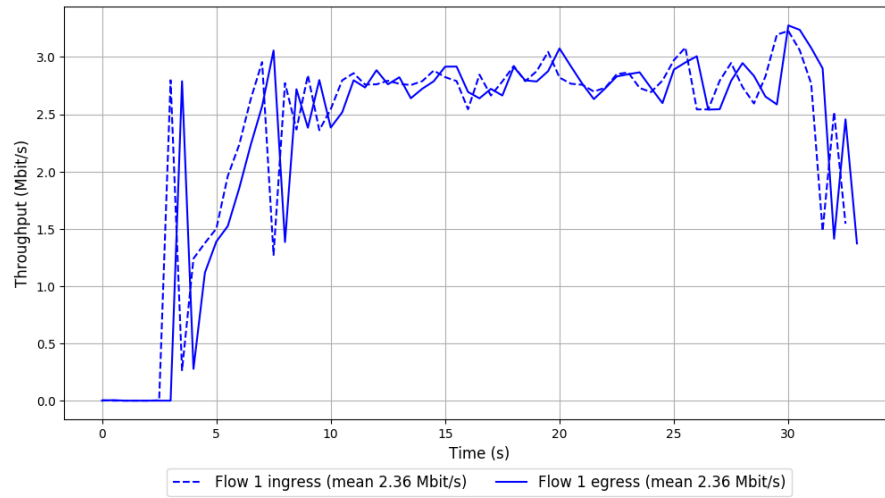
-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 33.980 ms

Loss rate: 0.24%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-03-27 07:17:51

End at: 2019-03-27 07:18:21

Local clock offset: 0.294 ms

Remote clock offset: 2.691 ms

Below is generated by plot.py at 2019-03-27 08:49:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 34.055 ms

Loss rate: 0.27%

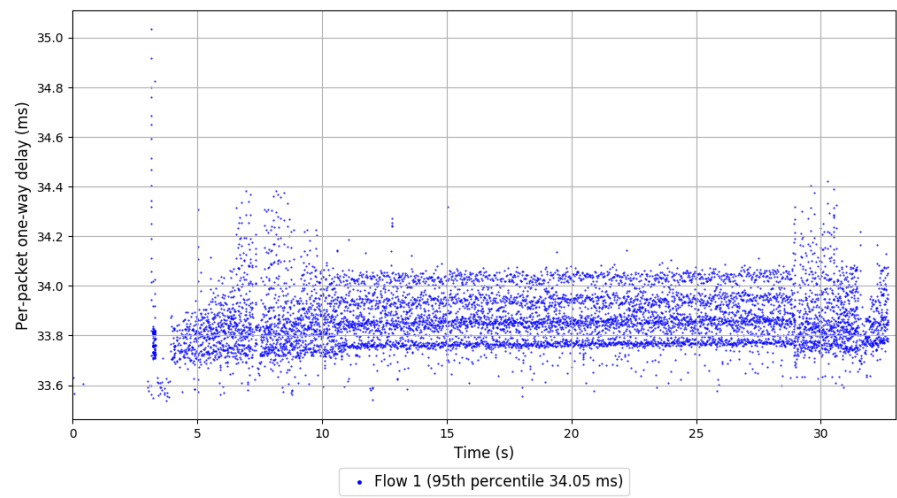
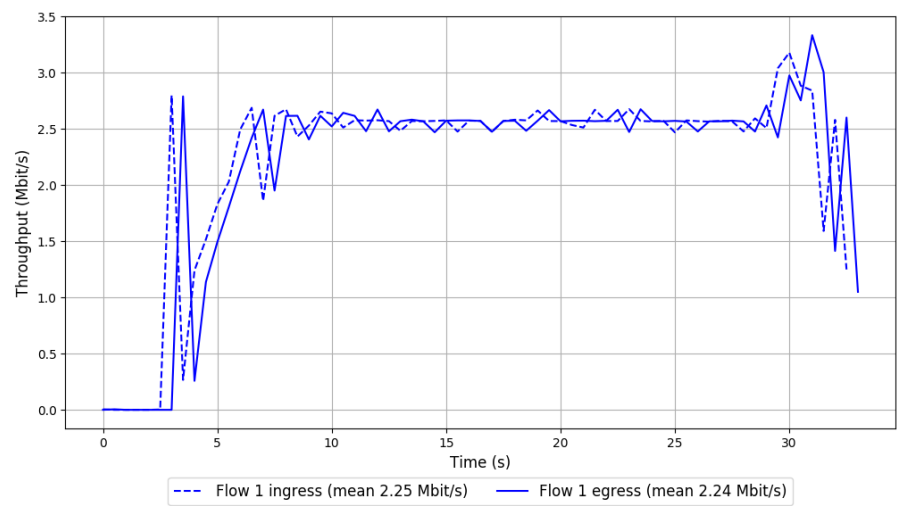
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 34.055 ms

Loss rate: 0.27%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-03-27 07:42:21

End at: 2019-03-27 07:42:51

Local clock offset: 0.225 ms

Remote clock offset: 3.33 ms

Below is generated by plot.py at 2019-03-27 08:49:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 33.659 ms

Loss rate: 0.26%

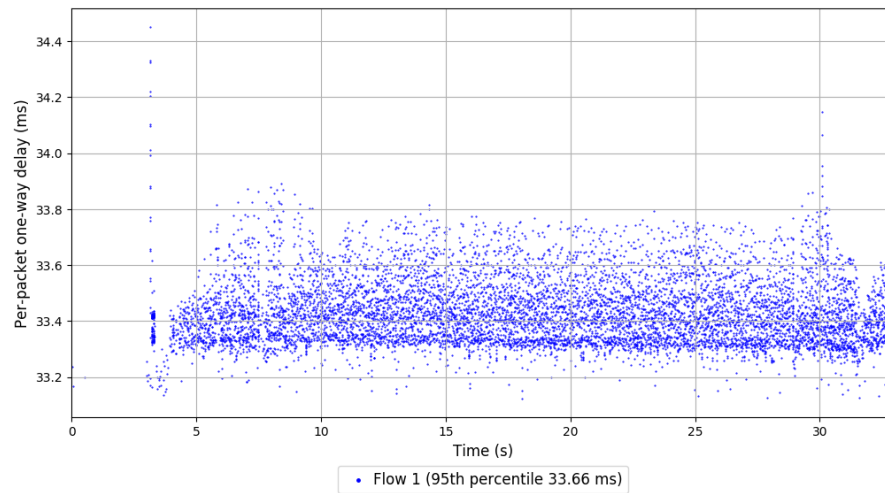
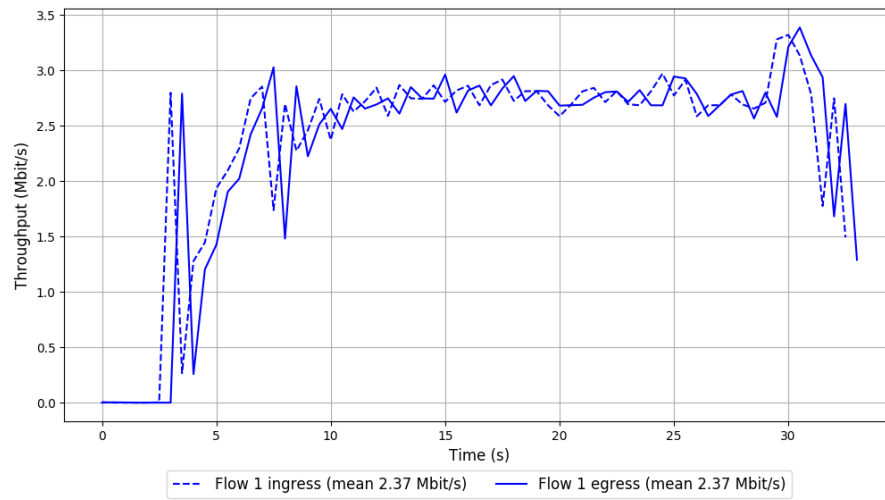
-- Flow 1:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 33.659 ms

Loss rate: 0.26%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-03-27 08:07:01

End at: 2019-03-27 08:07:31

Local clock offset: 0.404 ms

Remote clock offset: 2.377 ms

Below is generated by plot.py at 2019-03-27 08:49:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 33.602 ms

Loss rate: 0.19%

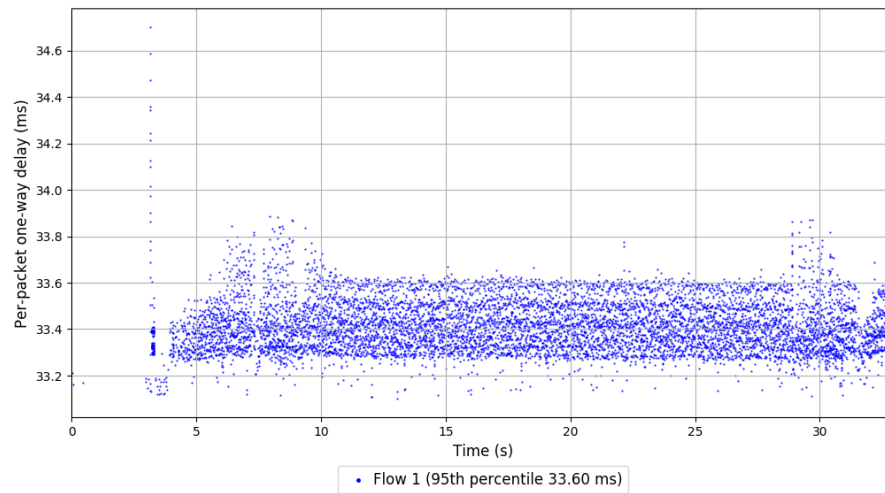
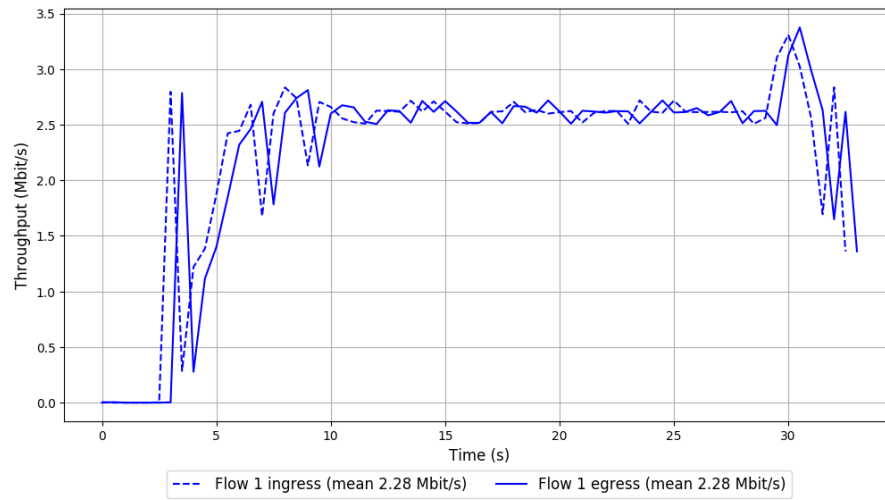
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 33.602 ms

Loss rate: 0.19%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-03-27 08:31:32

End at: 2019-03-27 08:32:02

Local clock offset: 3.306 ms

Remote clock offset: 1.977 ms

Below is generated by plot.py at 2019-03-27 08:49:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 33.567 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 33.567 ms

Loss rate: 0.26%

Run 5: Report of WebRTC media — Data Link

