

Pantheon Report

Generated at 2019-01-19 04:46:57 (UTC).

Data path: Colombia cellular on ppp0 (*remote*) → AWS Brazil 2 on ens5 (*local*).

Repeated the test of 21 congestion control schemes 3 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 4.15.0-1031-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:

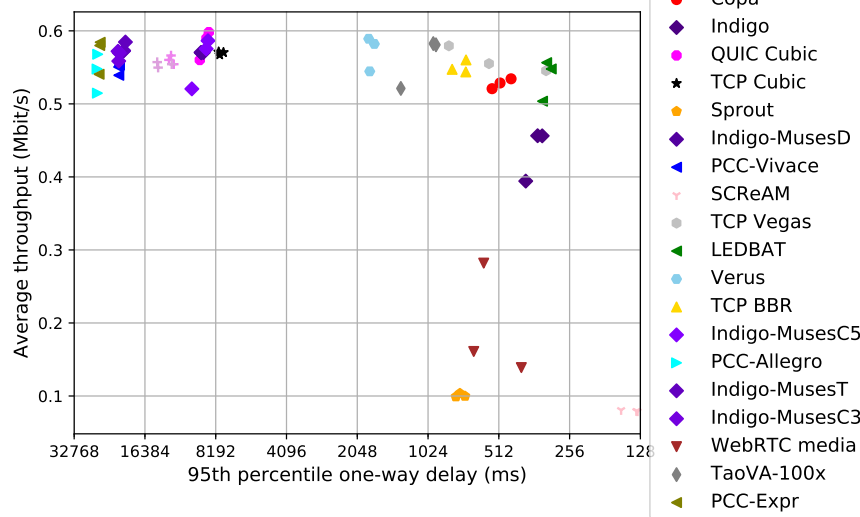
```
branch: muses @ c80a283586bf7b0cc1fe08c69c8f60d56498f81c
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf5e58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ c3eee875824760ec5b2fd207fefe166e1afe2170
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

A scatter plot showing the relationship between the 95th percentile one-way delay (ms) on the x-axis and the average throughput (Mbit/s) on the y-axis for various congestion control algorithms. The x-axis is logarithmic, ranging from 32 to 128 ms. The y-axis is linear, ranging from 0.1 to 0.6 Mbit/s. The algorithms are plotted as follows:

Algorithm	95th percentile one-way delay (ms)	Average throughput (Mbit/s)
Verus	~256	~0.57
Tao	~1024	~0.56
VA	~1536	~0.55
BBR	~1536	~0.53
Indigo	~1536	~0.44
EDBAT	~2048	~0.53
Copa	~1536	~0.52
WebRTC media	~1536	~0.20
Sprout	~1024	~0.11
SCReAM	~128	~0.09
PCQ	~32	~0.54
Indigo	~32	~0.53
Multipath	~32	~0.52
QUIC	~32	~0.51
Cubic	~32	~0.50
Musica	~32	~0.49
Musica	~32	~0.48
Musica	~32	~0.47
Musica	~32	~0.46
Musica	~32	~0.45
Musica	~32	~0.44
Musica	~32	~0.43
Musica	~32	~0.42
Musica	~32	~0.41
Musica	~32	~0.40
Musica	~32	~0.39
Musica	~32	~0.38
Musica	~32	~0.37
Musica	~32	~0.36
Musica	~32	~0.35
Musica	~32	~0.34
Musica	~32	~0.33
Musica	~32	~0.32
Musica	~32	~0.31
Musica	~32	~0.30
Musica	~32	~0.29
Musica	~32	~0.28
Musica	~32	~0.27
Musica	~32	~0.26
Musica	~32	~0.25
Musica	~32	~0.24
Musica	~32	~0.23
Musica	~32	~0.22
Musica	~32	~0.21
Musica	~32	~0.20
Musica	~32	~0.19
Musica	~32	~0.18
Musica	~32	~0.17
Musica	~32	~0.16
Musica	~32	~0.15
Musica	~32	~0.14
Musica	~32	~0.13
Musica	~32	~0.12
Musica	~32	~0.11
Musica	~32	~0.10

test from Colombia cellular to AWS Brazil 2, 3 runs of 30s each per s



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	3	0.55	740.83	2.14
Copa	3	0.53	502.35	0.93
TCP Cubic	3	0.57	7812.32	30.91
FillP	3	0.56	12665.57	19.42
FillP-Sheep	3	0.55	13844.48	13.35
Indigo	3	0.44	359.44	0.81
Indigo-MusesC3	3	0.57	21187.12	82.17
Indigo-MusesC5	3	0.56	9393.26	35.95
Indigo-MusesD	3	0.57	9377.04	35.49
Indigo-MusesT	3	0.57	20074.62	54.68
LEDBAT	3	0.54	320.29	1.32
PCC-Allegro	3	0.54	26100.20	98.41
PCC-Expr	3	0.57	25531.50	90.40
QUIC Cubic	3	0.58	9103.24	32.76
SCReAM	3	0.08	139.80	0.70
Sprout	3	0.10	747.42	0.66
TaoVA-100x	3	0.56	1085.63	5.49
TCP Vegas	3	0.56	573.80	1.00
Verus	3	0.57	1792.08	4.69
PCC-Vivace	3	0.55	21140.88	72.31
WebRTC media	3	0.19	553.01	1.52

Run 1: Statistics of TCP BBR

Start at: 2019-01-19 03:41:51

End at: 2019-01-19 03:42:21

Local clock offset: 0.034 ms

Remote clock offset: 8.274 ms

Below is generated by plot.py at 2019-01-19 04:46:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 706.048 ms

Loss rate: 2.19%

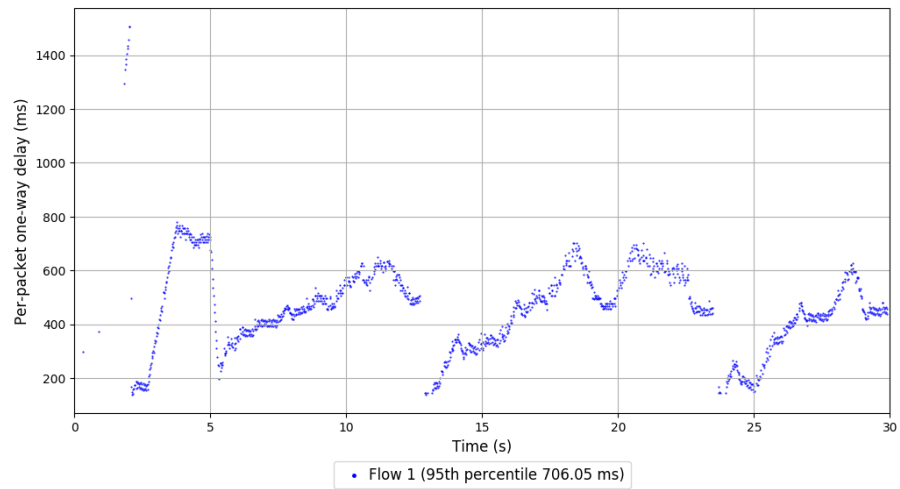
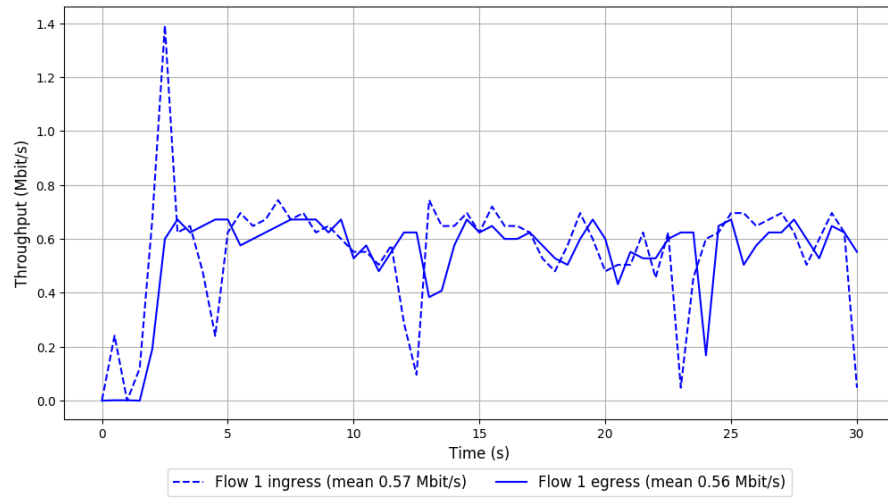
-- Flow 1:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 706.048 ms

Loss rate: 2.19%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-01-19 04:05:48

End at: 2019-01-19 04:06:18

Local clock offset: -1.016 ms

Remote clock offset: 7.91 ms

Below is generated by plot.py at 2019-01-19 04:46:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 808.772 ms

Loss rate: 2.18%

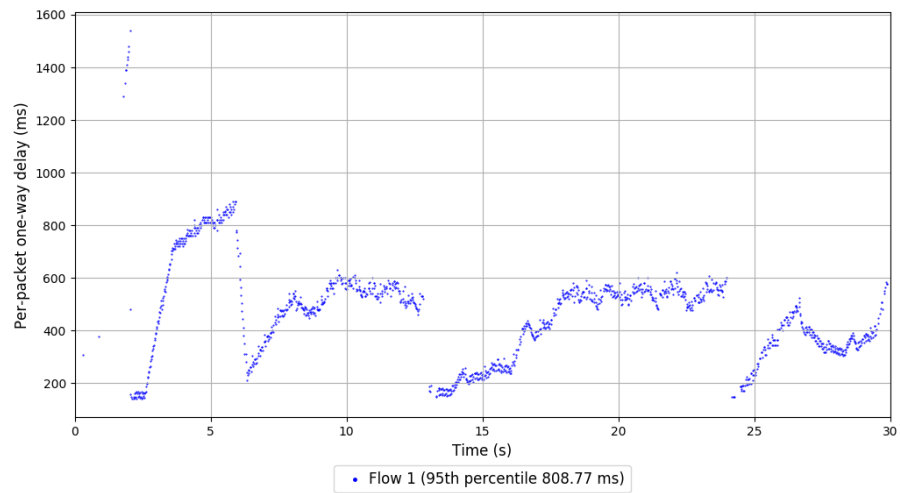
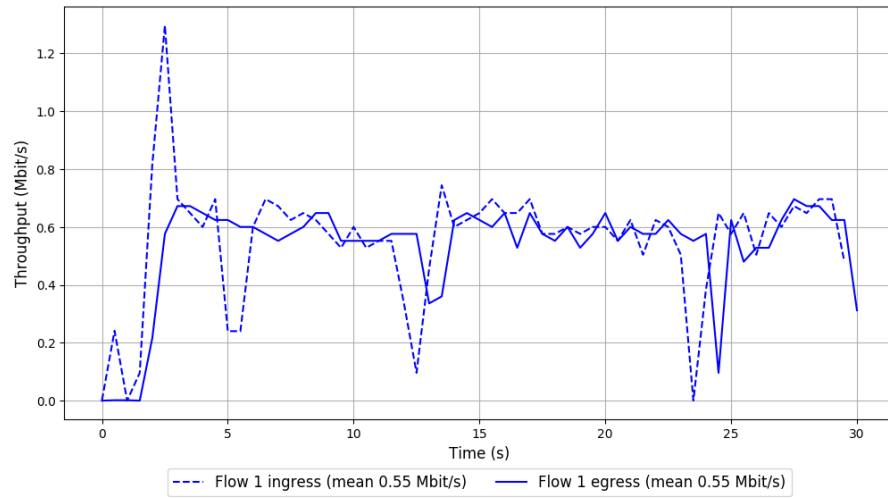
-- Flow 1:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 808.772 ms

Loss rate: 2.18%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-01-19 04:29:45

End at: 2019-01-19 04:30:15

Local clock offset: -2.178 ms

Remote clock offset: 7.463 ms

Below is generated by plot.py at 2019-01-19 04:46:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 707.657 ms

Loss rate: 2.05%

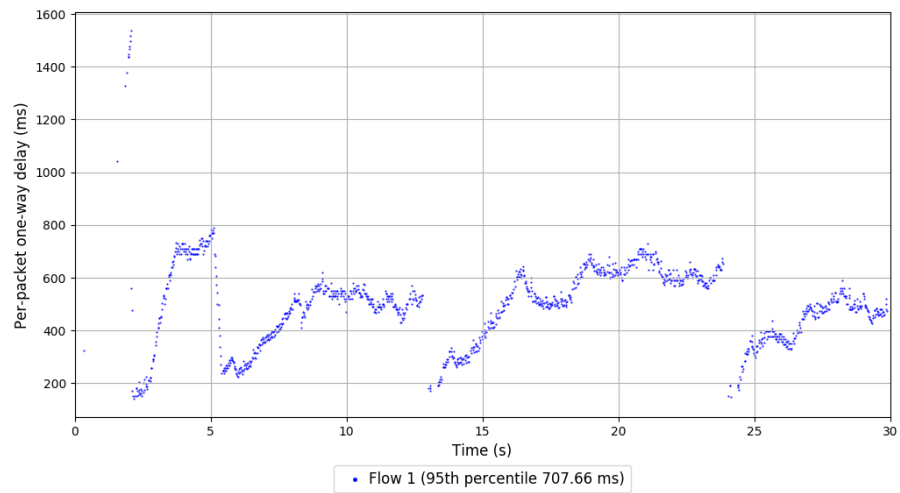
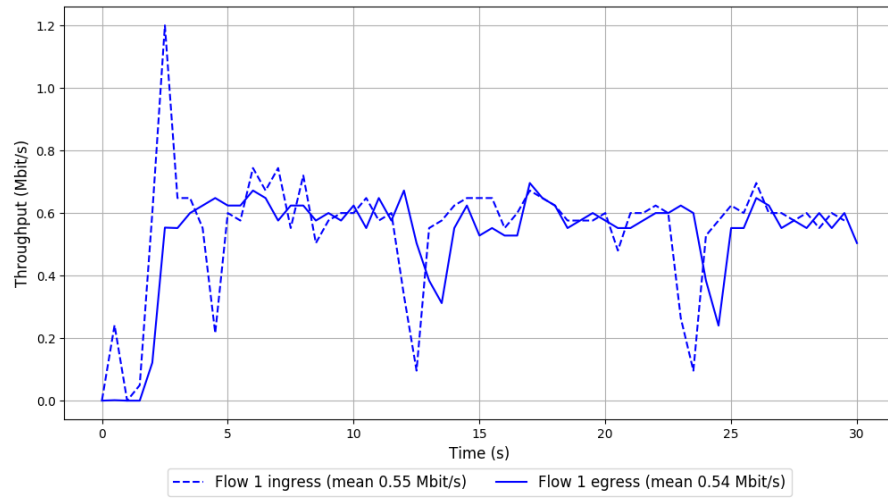
-- Flow 1:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 707.657 ms

Loss rate: 2.05%

Run 3: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-01-19 03:52:06

End at: 2019-01-19 03:52:36

Local clock offset: -1.133 ms

Remote clock offset: 4.63 ms

Below is generated by plot.py at 2019-01-19 04:46:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 546.955 ms

Loss rate: 0.88%

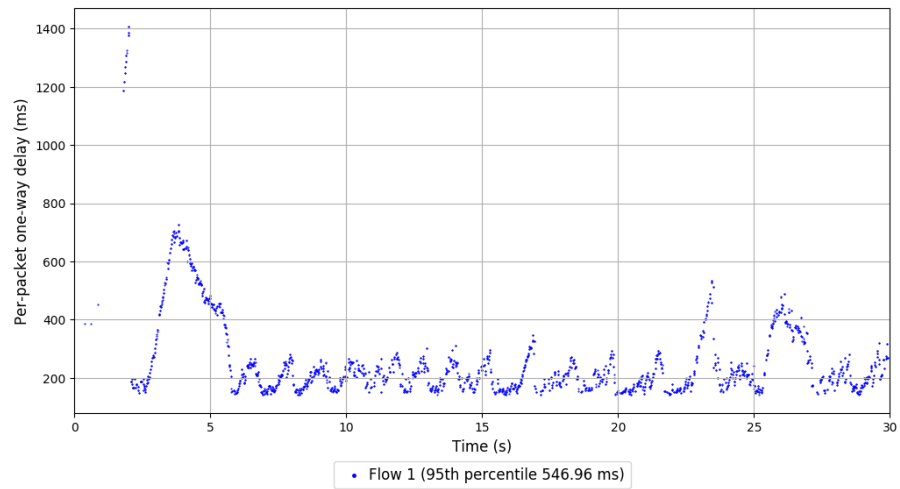
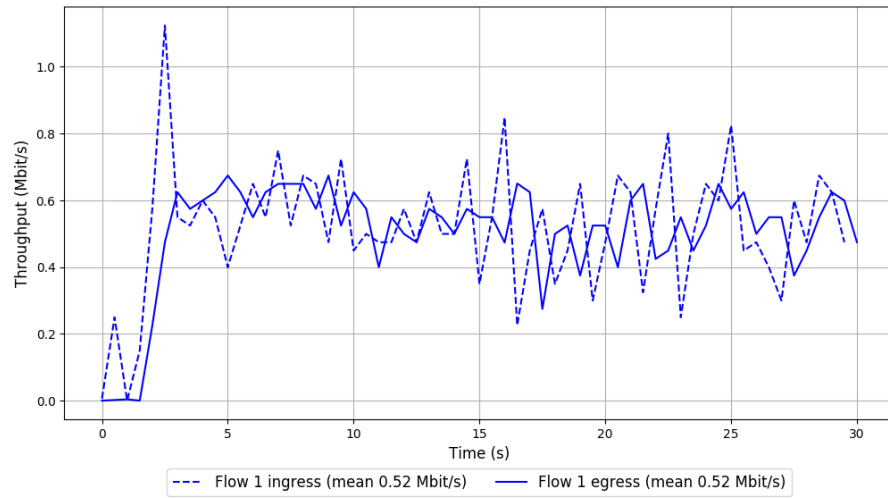
-- Flow 1:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 546.955 ms

Loss rate: 0.88%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-01-19 04:16:03

End at: 2019-01-19 04:16:33

Local clock offset: -0.951 ms

Remote clock offset: 2.469 ms

Below is generated by plot.py at 2019-01-19 04:46:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 454.149 ms

Loss rate: 1.10%

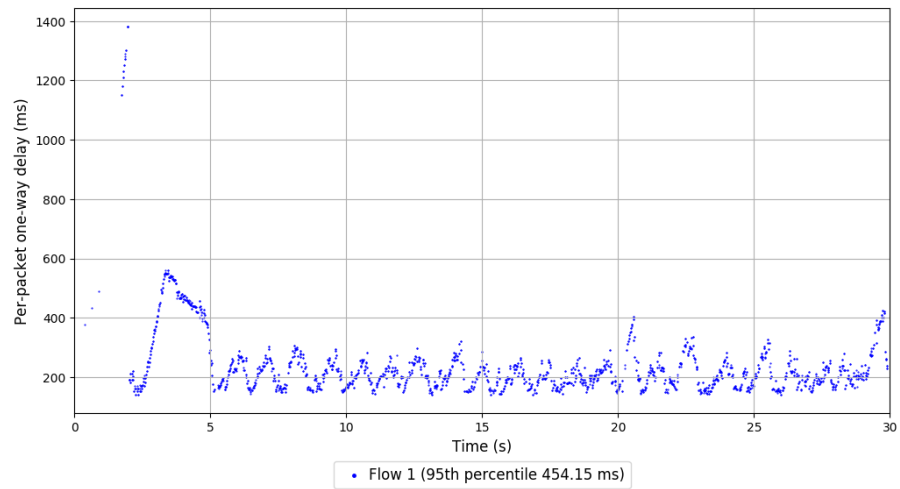
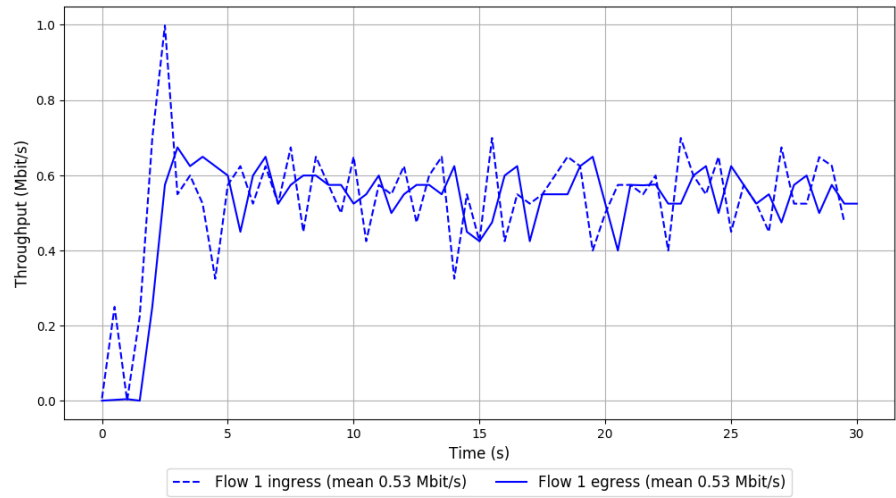
-- Flow 1:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 454.149 ms

Loss rate: 1.10%

Run 2: Report of Copa — Data Link

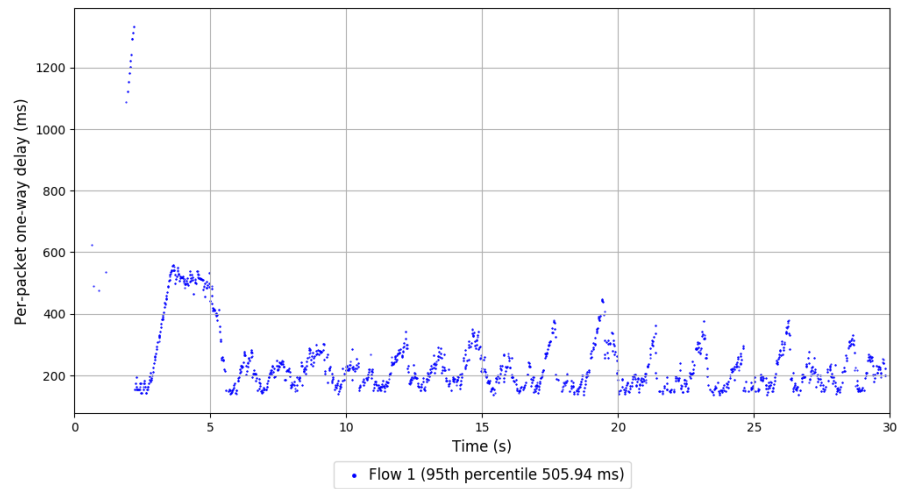
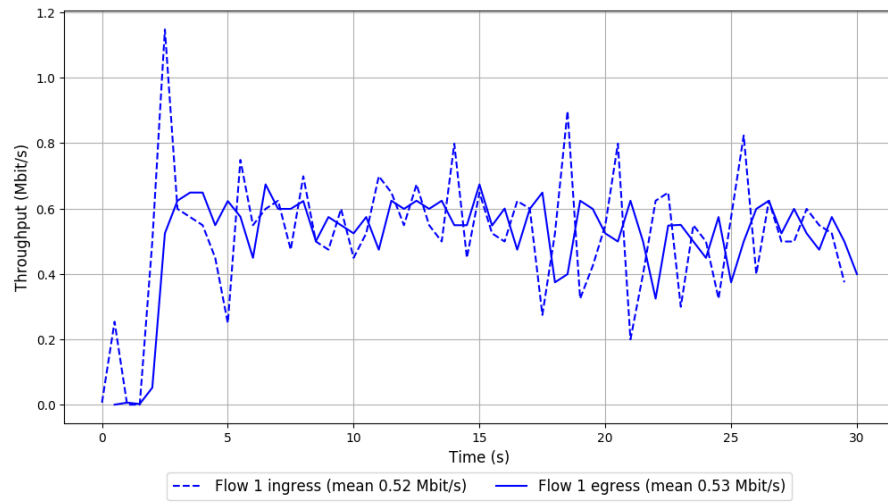


Run 3: Statistics of Copa

Start at: 2019-01-19 04:39:59
End at: 2019-01-19 04:40:29
Local clock offset: -1.416 ms
Remote clock offset: 6.368 ms

Below is generated by plot.py at 2019-01-19 04:46:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 505.944 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 505.944 ms
Loss rate: 0.80%

Run 3: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-01-19 03:42:59

End at: 2019-01-19 03:43:29

Local clock offset: -0.537 ms

Remote clock offset: 3.346 ms

Below is generated by plot.py at 2019-01-19 04:46:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 7882.736 ms

Loss rate: 30.66%

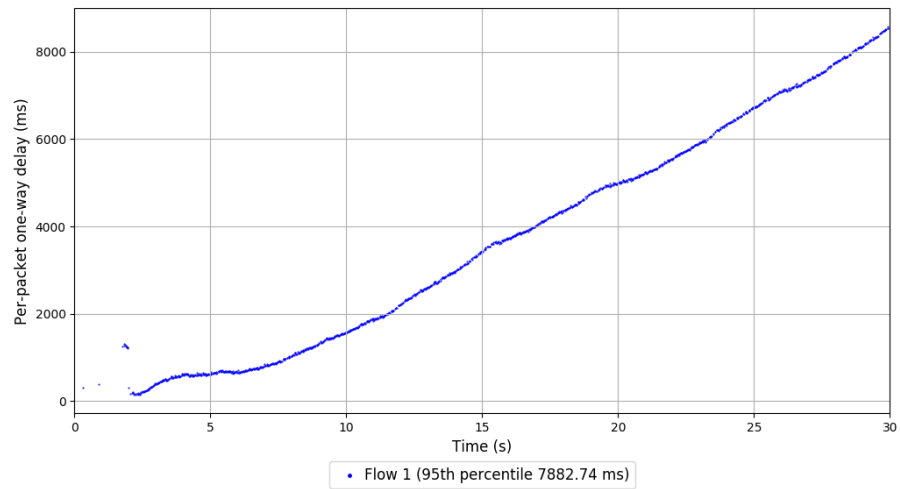
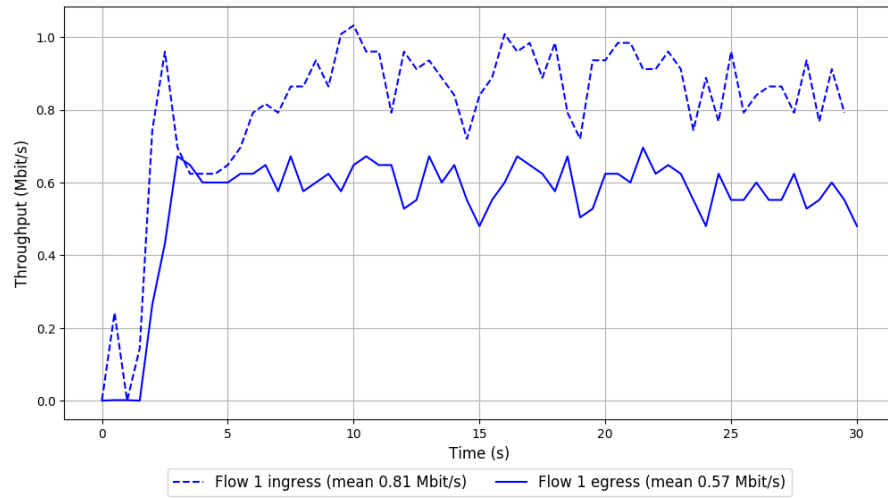
-- Flow 1:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 7882.736 ms

Loss rate: 30.66%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-01-19 04:06:56

End at: 2019-01-19 04:07:26

Local clock offset: -1.066 ms

Remote clock offset: 3.025 ms

Below is generated by plot.py at 2019-01-19 04:46:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 7593.111 ms

Loss rate: 31.08%

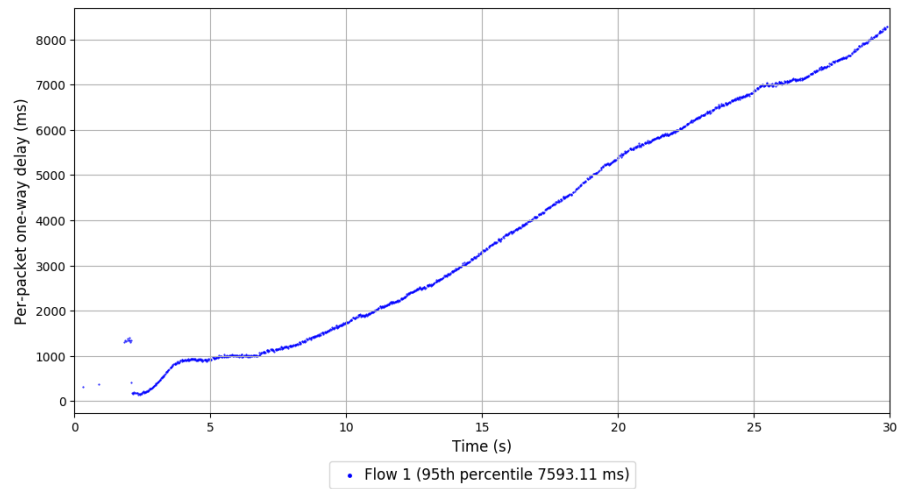
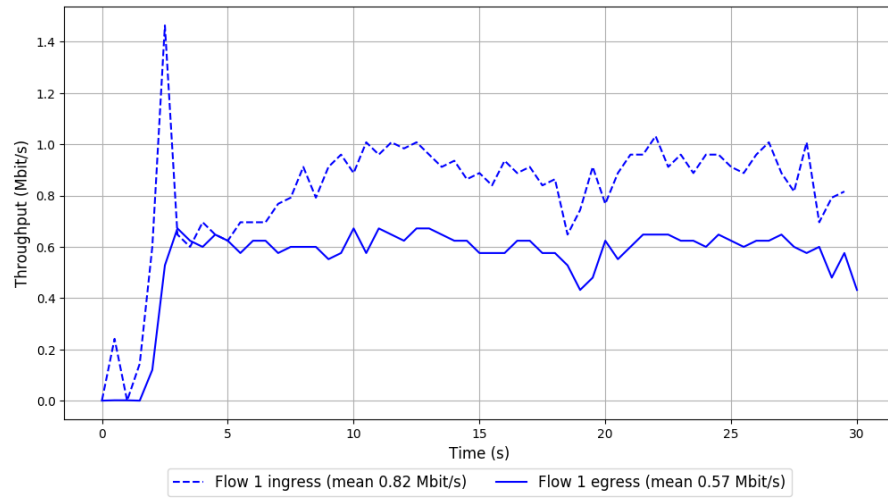
-- Flow 1:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 7593.111 ms

Loss rate: 31.08%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2019-01-19 04:30:53

End at: 2019-01-19 04:31:23

Local clock offset: -1.479 ms

Remote clock offset: 3.757 ms

Below is generated by plot.py at 2019-01-19 04:46:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 7961.102 ms

Loss rate: 30.98%

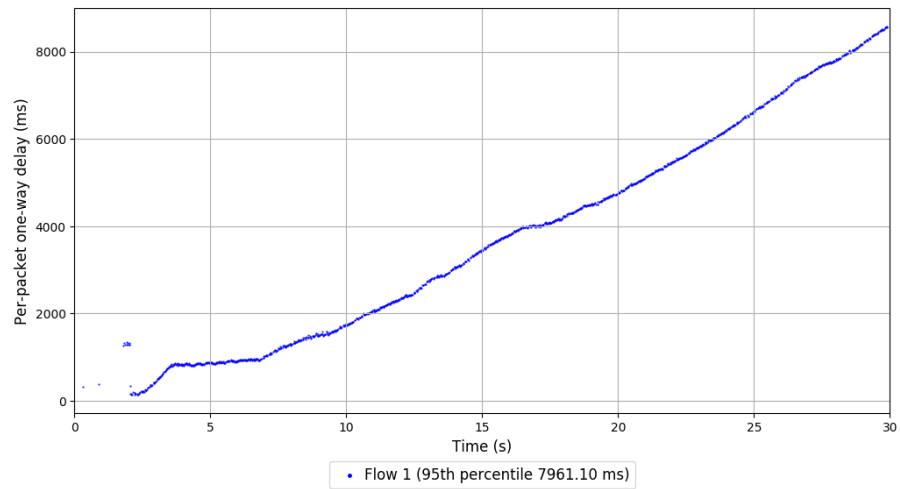
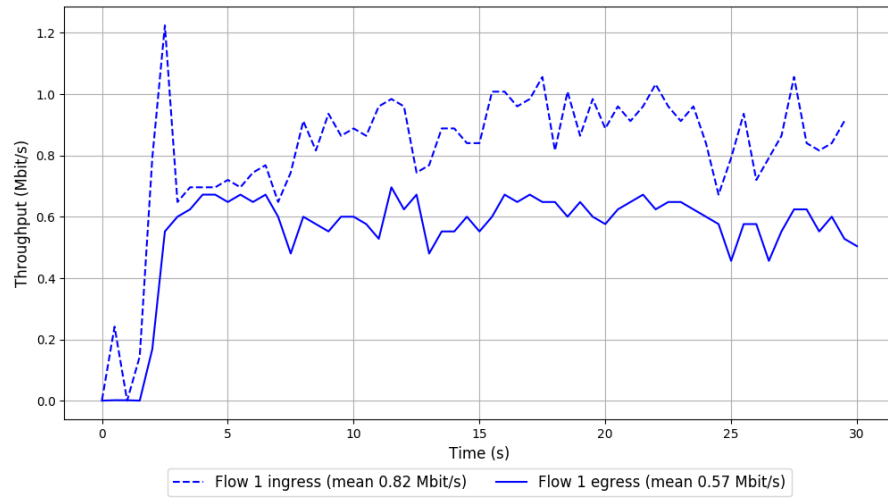
-- Flow 1:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 7961.102 ms

Loss rate: 30.98%

Run 3: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-01-19 03:49:49

End at: 2019-01-19 03:50:19

Local clock offset: 0.058 ms

Remote clock offset: 8.408 ms

Below is generated by plot.py at 2019-01-19 04:46:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 12353.051 ms

Loss rate: 19.04%

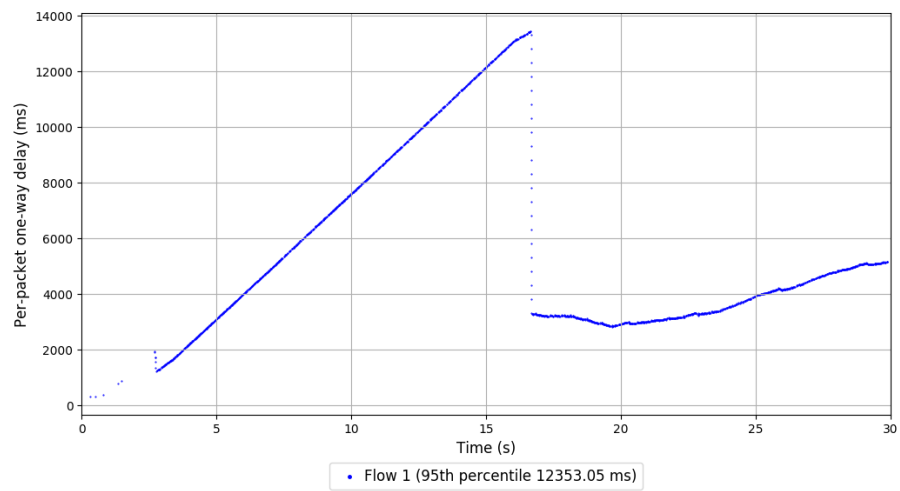
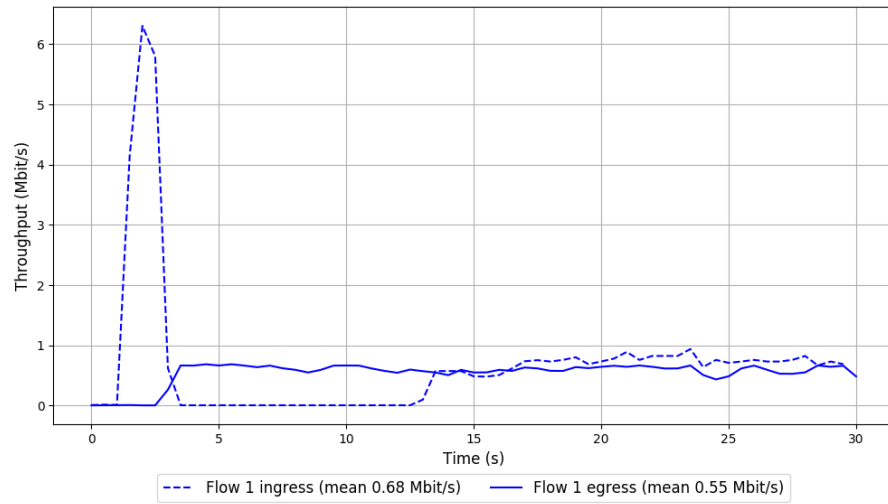
-- Flow 1:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 12353.051 ms

Loss rate: 19.04%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-01-19 04:13:47

End at: 2019-01-19 04:14:17

Local clock offset: -0.947 ms

Remote clock offset: 7.68 ms

Below is generated by plot.py at 2019-01-19 04:46:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 12953.816 ms

Loss rate: 20.01%

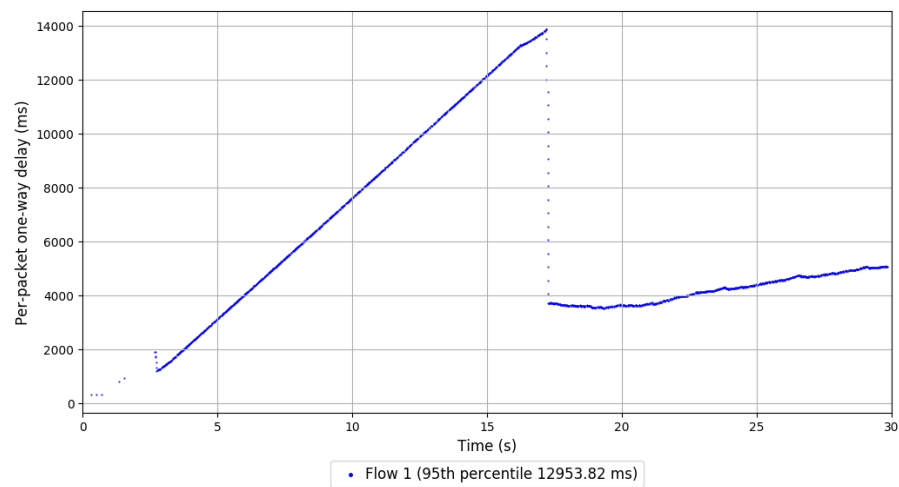
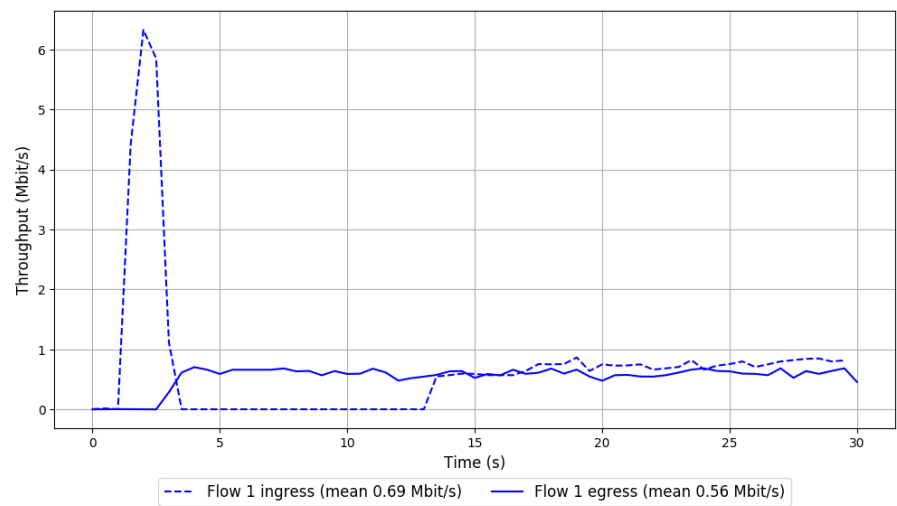
-- Flow 1:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 12953.816 ms

Loss rate: 20.01%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-01-19 04:37:43

End at: 2019-01-19 04:38:13

Local clock offset: -1.43 ms

Remote clock offset: 6.315 ms

Below is generated by plot.py at 2019-01-19 04:46:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 12689.849 ms

Loss rate: 19.20%

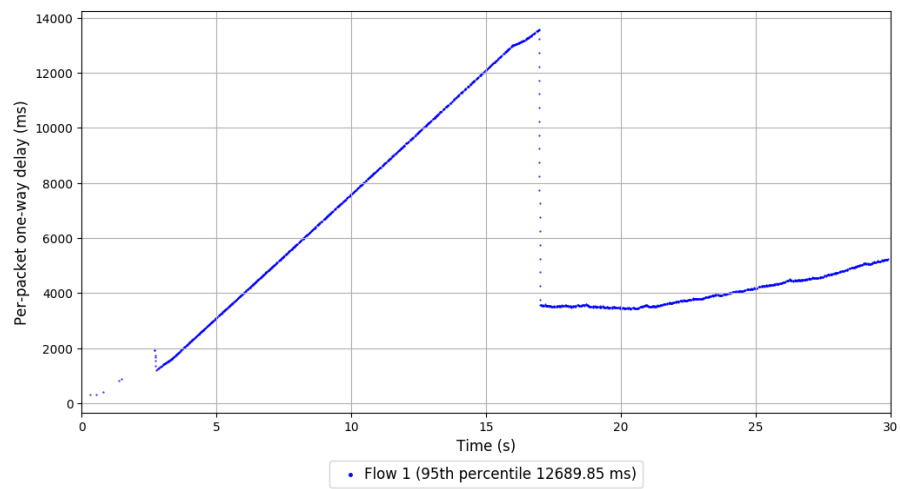
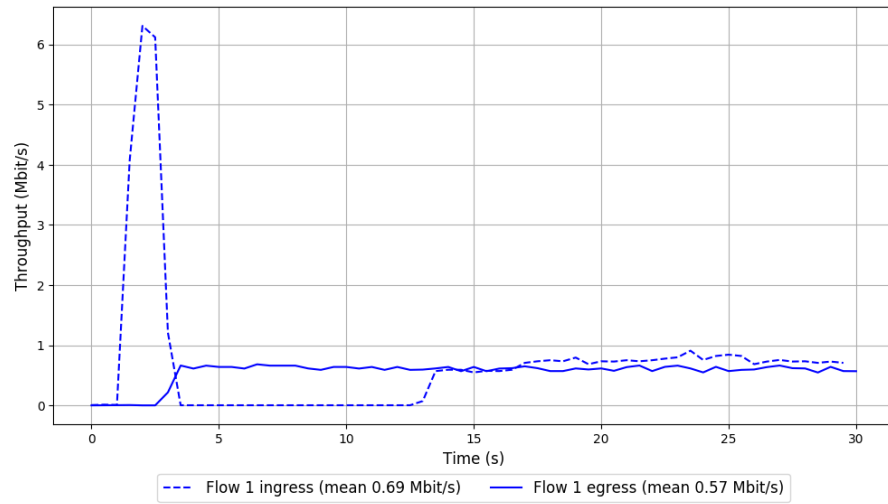
-- Flow 1:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 12689.849 ms

Loss rate: 19.20%

Run 3: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-01-19 03:46:25

End at: 2019-01-19 03:46:55

Local clock offset: -0.223 ms

Remote clock offset: 3.517 ms

Below is generated by plot.py at 2019-01-19 04:46:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 14528.360 ms

Loss rate: 12.05%

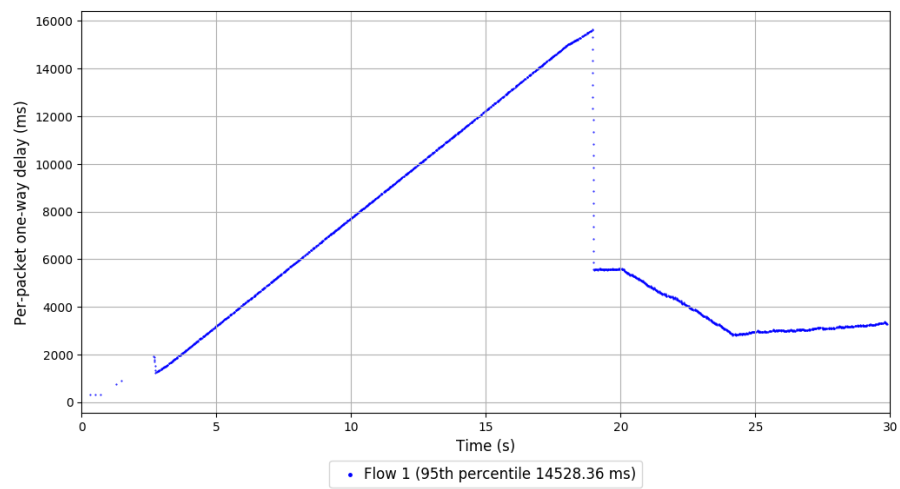
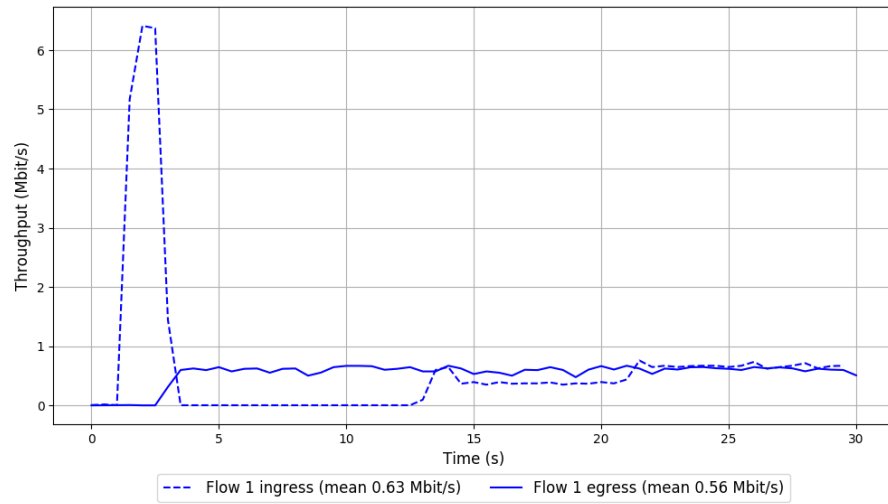
-- Flow 1:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 14528.360 ms

Loss rate: 12.05%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-01-19 04:10:22

End at: 2019-01-19 04:10:52

Local clock offset: -1.739 ms

Remote clock offset: 4.008 ms

Below is generated by plot.py at 2019-01-19 04:46:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 14401.148 ms

Loss rate: 13.46%

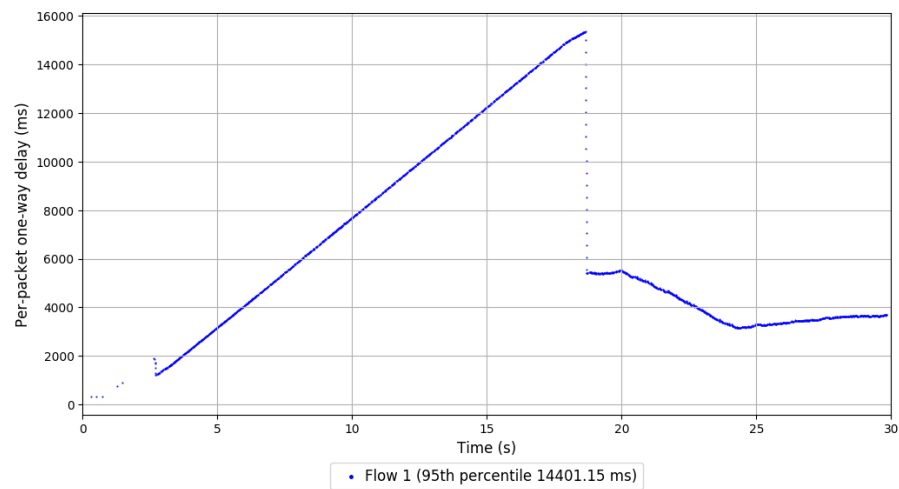
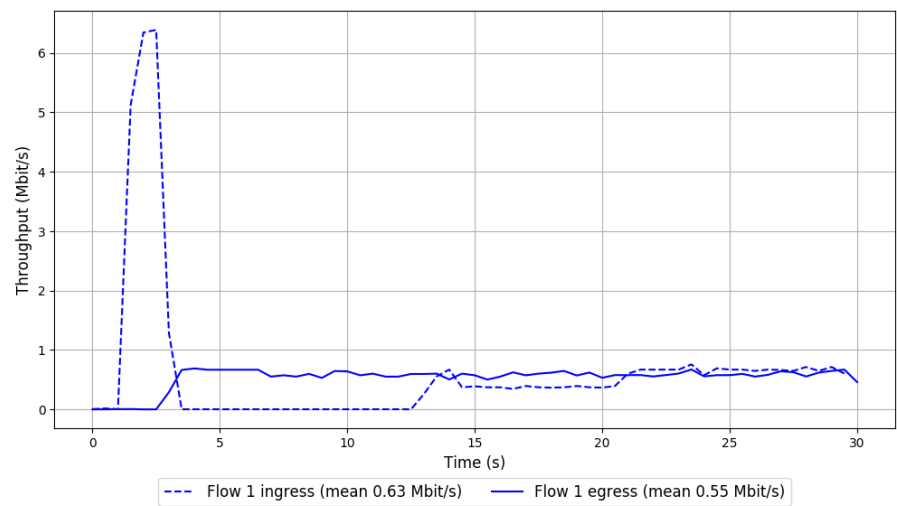
-- Flow 1:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 14401.148 ms

Loss rate: 13.46%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-01-19 04:34:18

End at: 2019-01-19 04:34:48

Local clock offset: -2.19 ms

Remote clock offset: 2.575 ms

Below is generated by plot.py at 2019-01-19 04:46:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 12603.919 ms

Loss rate: 14.55%

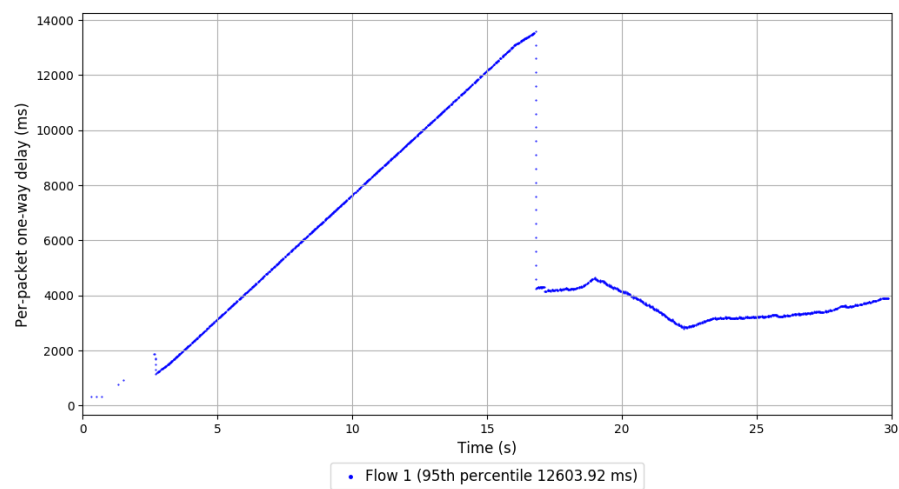
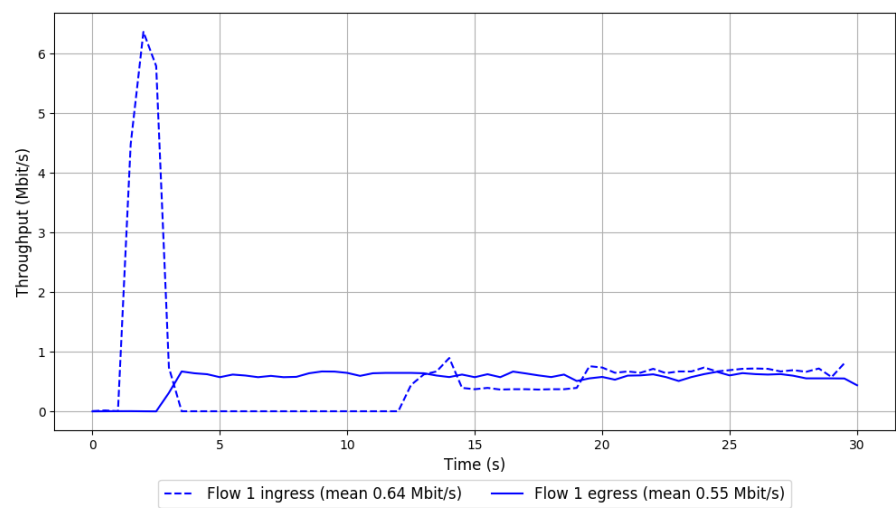
-- Flow 1:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 12603.919 ms

Loss rate: 14.55%

Run 3: Report of FillP-Sheep — Data Link

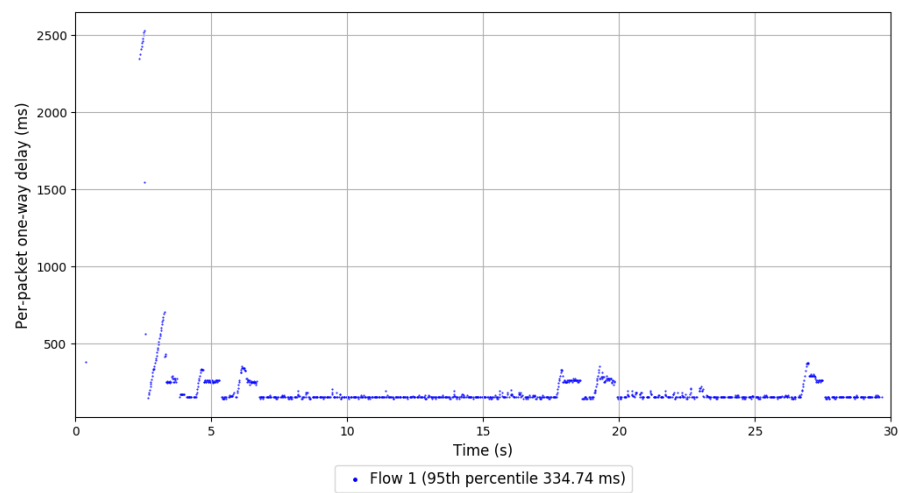
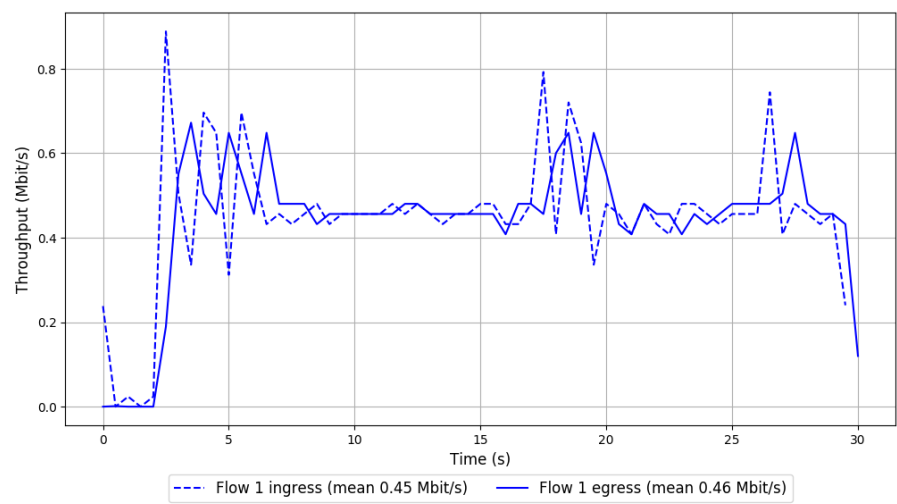


```
Run 1: Statistics of Indigo

Start at: 2019-01-19 03:57:49
End at: 2019-01-19 03:58:19
Local clock offset: -0.871 ms
Remote clock offset: 7.686 ms

# Below is generated by plot.py at 2019-01-19 04:46:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 334.743 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 334.743 ms
Loss rate: 0.80%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-01-19 04:21:45

End at: 2019-01-19 04:22:15

Local clock offset: -1.253 ms

Remote clock offset: 2.639 ms

Below is generated by plot.py at 2019-01-19 04:46:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 393.399 ms

Loss rate: 0.82%

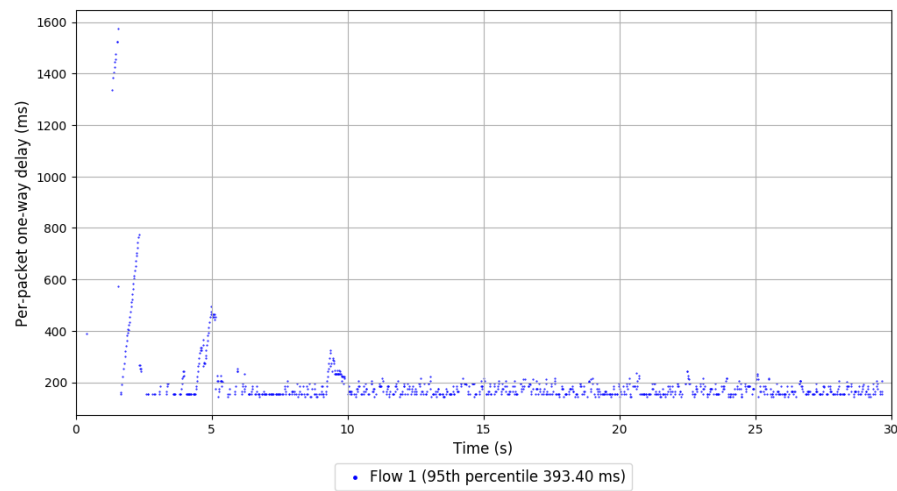
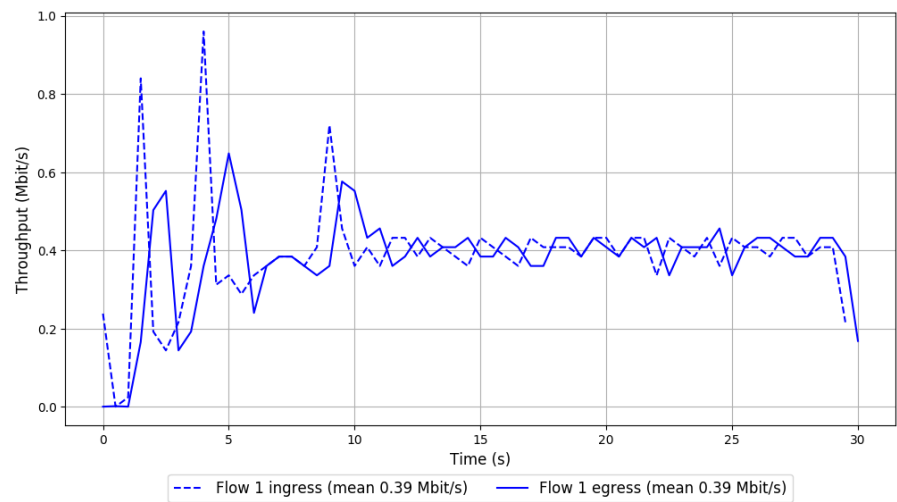
-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 393.399 ms

Loss rate: 0.82%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-01-19 04:45:41

End at: 2019-01-19 04:46:11

Local clock offset: -2.125 ms

Remote clock offset: 2.45 ms

Below is generated by plot.py at 2019-01-19 04:46:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 350.172 ms

Loss rate: 0.80%

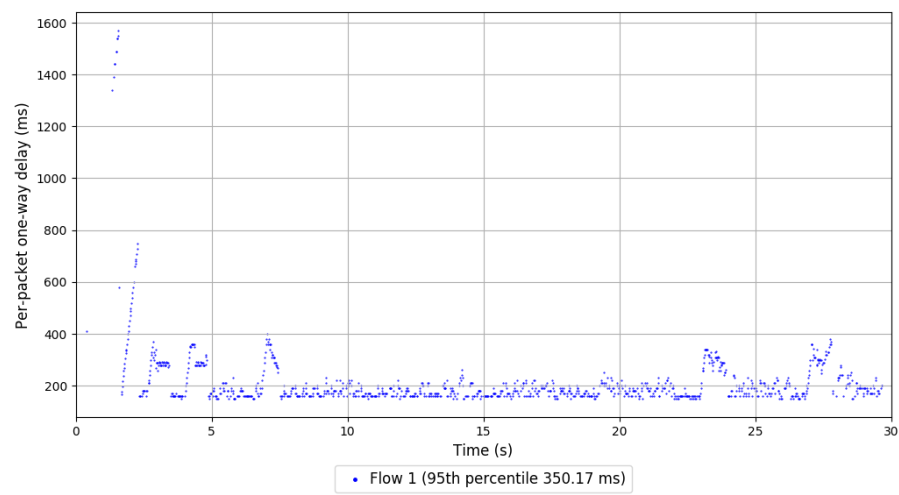
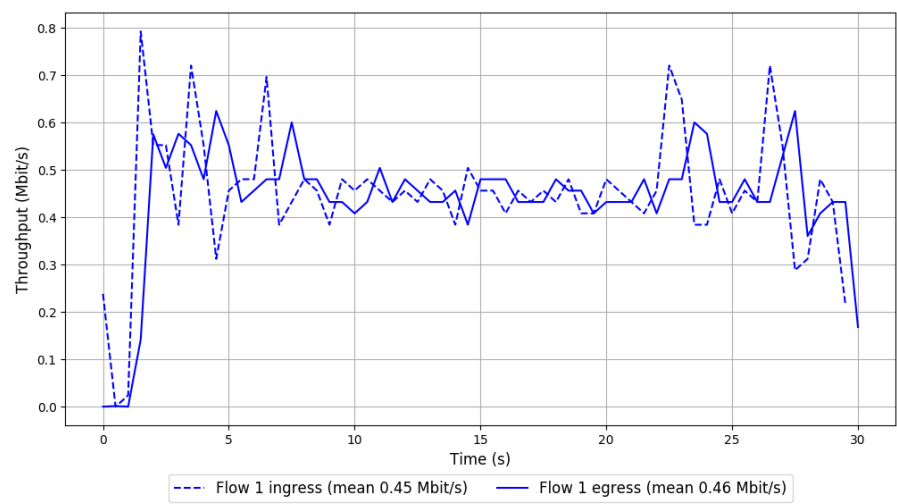
-- Flow 1:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 350.172 ms

Loss rate: 0.80%

Run 3: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-01-19 03:53:14

End at: 2019-01-19 03:53:44

Local clock offset: -1.204 ms

Remote clock offset: 3.677 ms

Below is generated by plot.py at 2019-01-19 04:46:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 21053.634 ms

Loss rate: 77.57%

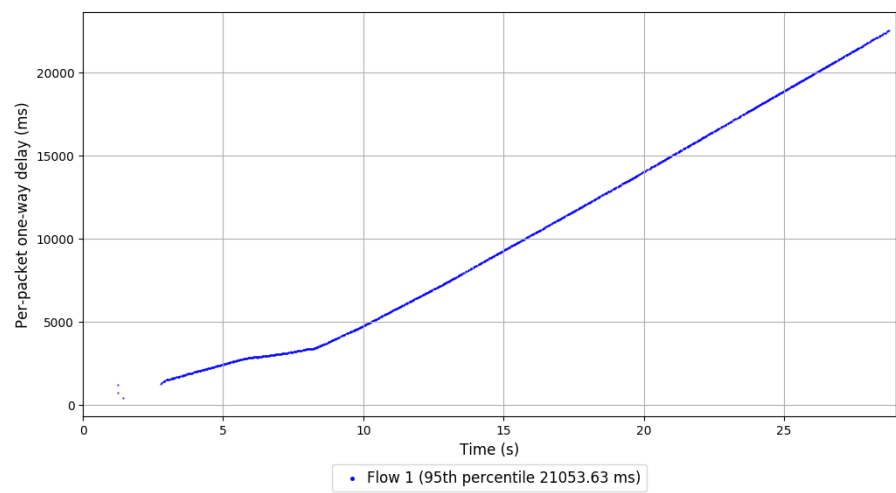
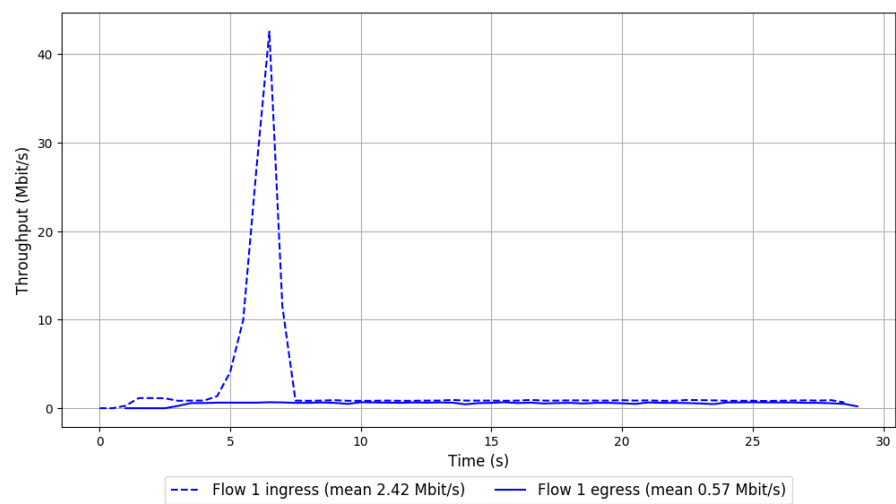
-- Flow 1:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 21053.634 ms

Loss rate: 77.57%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-01-19 04:17:11

End at: 2019-01-19 04:17:41

Local clock offset: -0.949 ms

Remote clock offset: 2.704 ms

Below is generated by plot.py at 2019-01-19 04:46:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 21330.080 ms

Loss rate: 86.94%

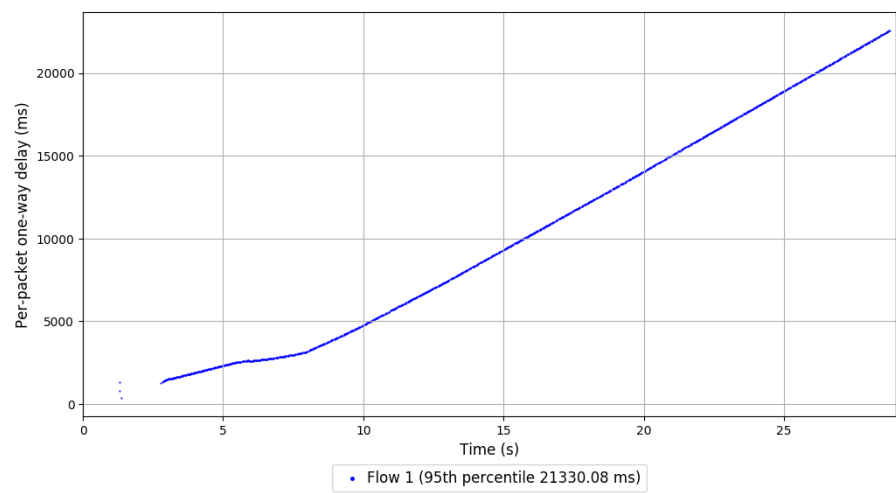
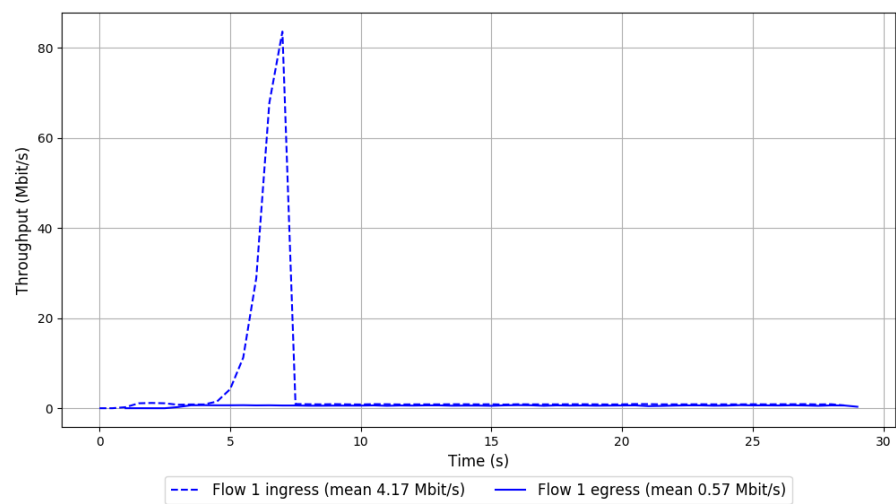
-- Flow 1:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 21330.080 ms

Loss rate: 86.94%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-01-19 04:41:07

End at: 2019-01-19 04:41:38

Local clock offset: -1.39 ms

Remote clock offset: 2.598 ms

Below is generated by plot.py at 2019-01-19 04:46:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 21177.658 ms

Loss rate: 82.00%

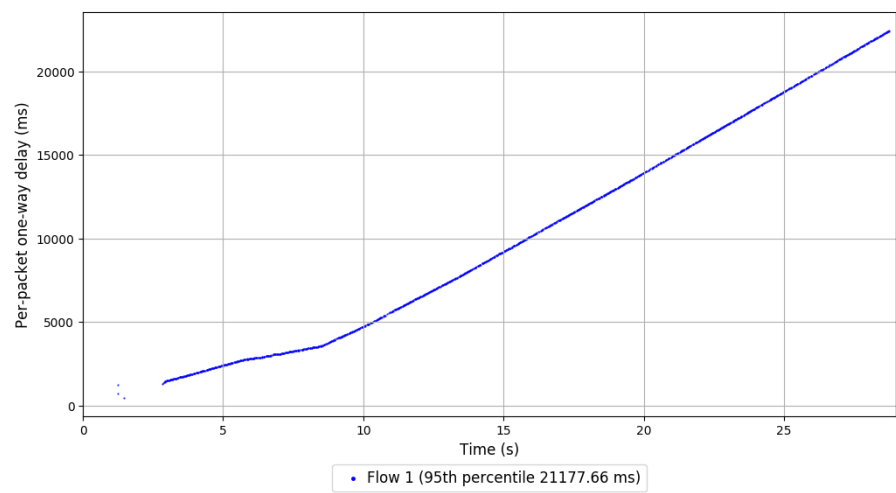
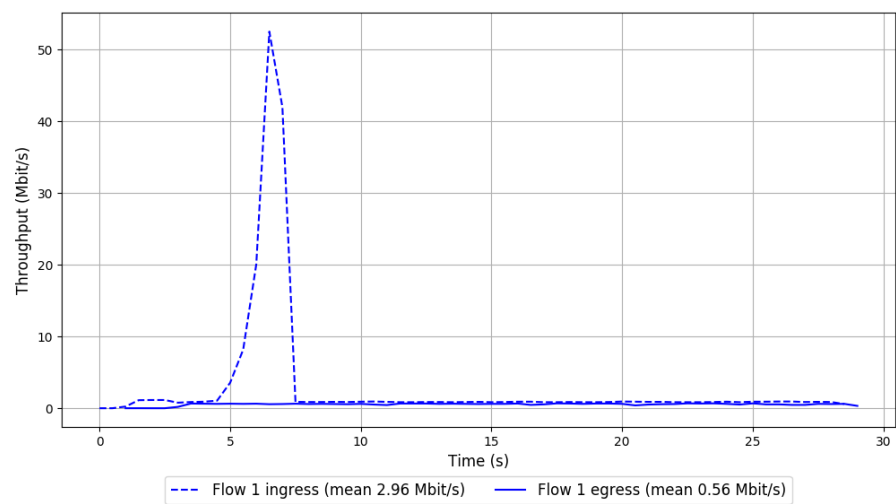
-- Flow 1:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 21177.658 ms

Loss rate: 82.00%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-01-19 03:36:06

End at: 2019-01-19 03:36:36

Local clock offset: -1.392 ms

Remote clock offset: 3.113 ms

Below is generated by plot.py at 2019-01-19 04:46:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 8834.855 ms

Loss rate: 33.11%

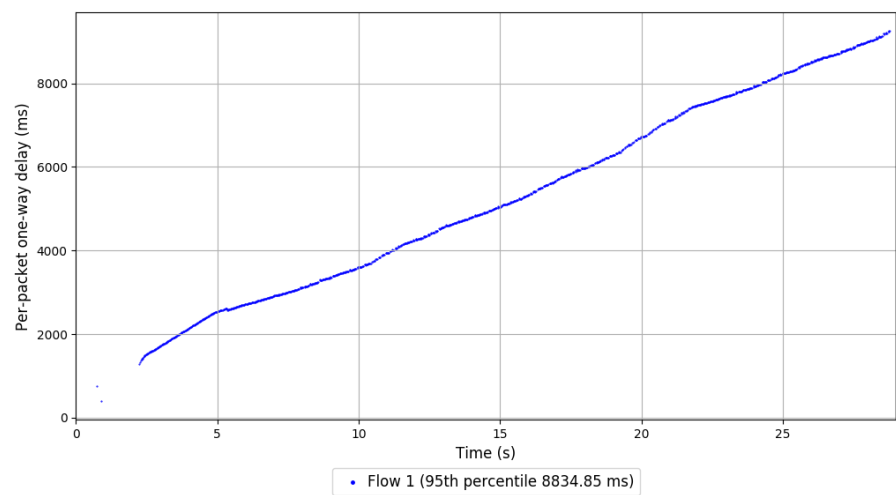
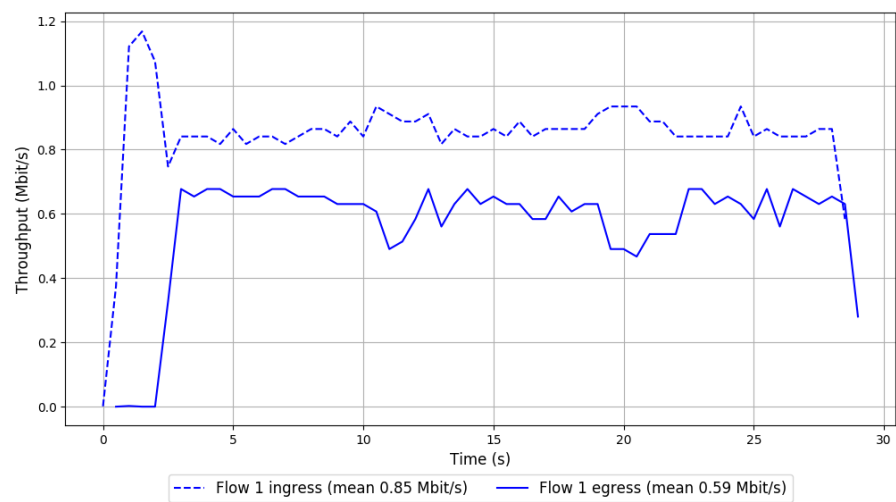
-- Flow 1:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 8834.855 ms

Loss rate: 33.11%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-01-19 04:00:05

End at: 2019-01-19 04:00:35

Local clock offset: -1.734 ms

Remote clock offset: 3.517 ms

Below is generated by plot.py at 2019-01-19 04:46:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 10350.441 ms

Loss rate: 40.01%

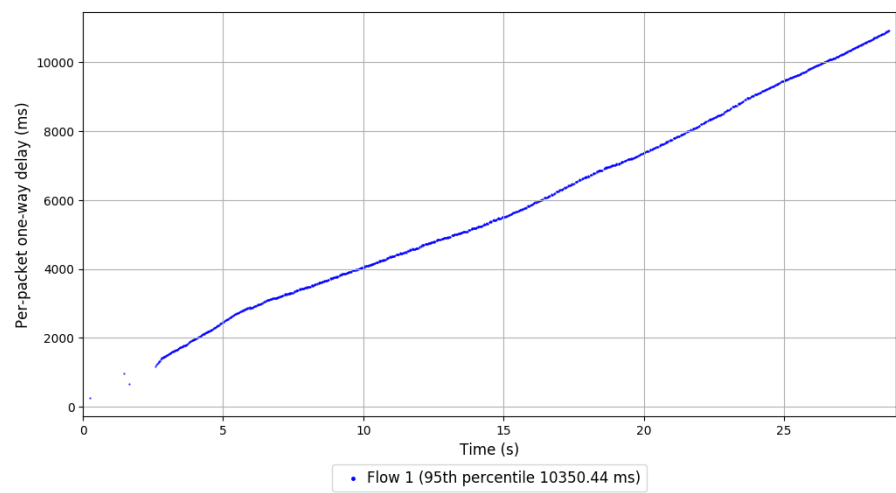
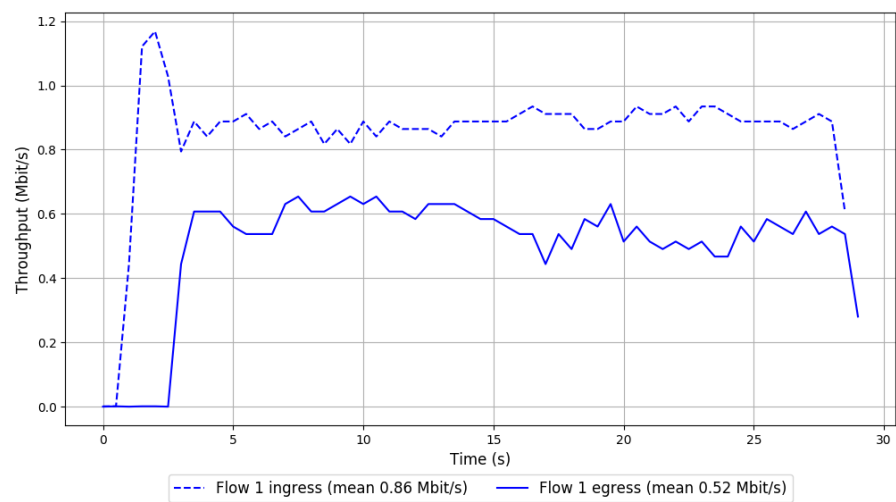
-- Flow 1:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 10350.441 ms

Loss rate: 40.01%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-01-19 04:24:01

End at: 2019-01-19 04:24:31

Local clock offset: -1.279 ms

Remote clock offset: 7.52 ms

Below is generated by plot.py at 2019-01-19 04:46:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 8994.480 ms

Loss rate: 34.73%

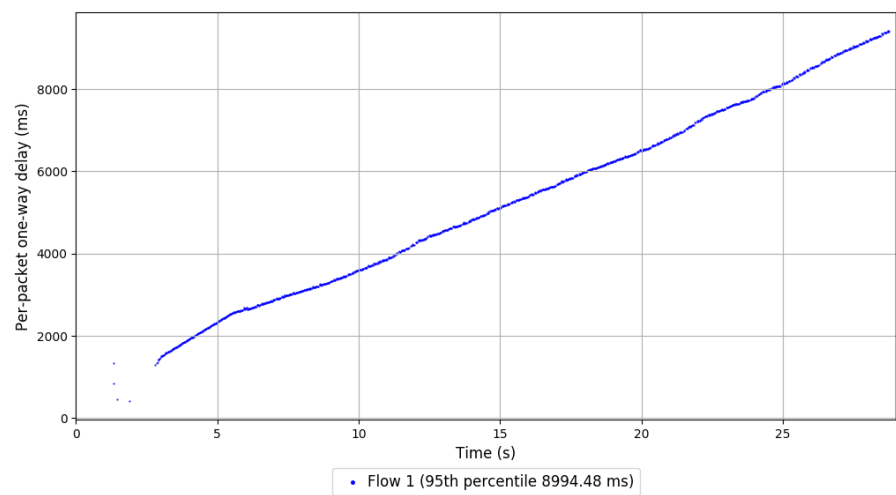
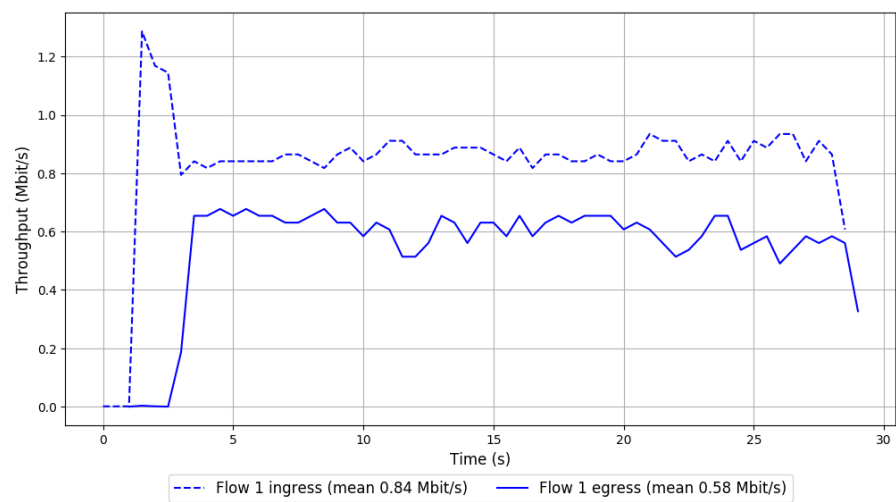
-- Flow 1:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 8994.480 ms

Loss rate: 34.73%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-01-19 03:40:43

End at: 2019-01-19 03:41:13

Local clock offset: -0.814 ms

Remote clock offset: 9.295 ms

Below is generated by plot.py at 2019-01-19 04:46:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 9425.166 ms

Loss rate: 35.55%

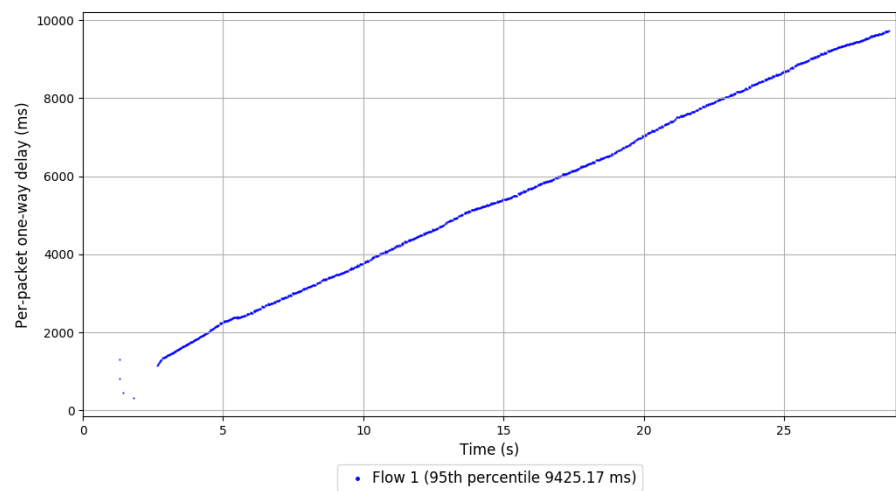
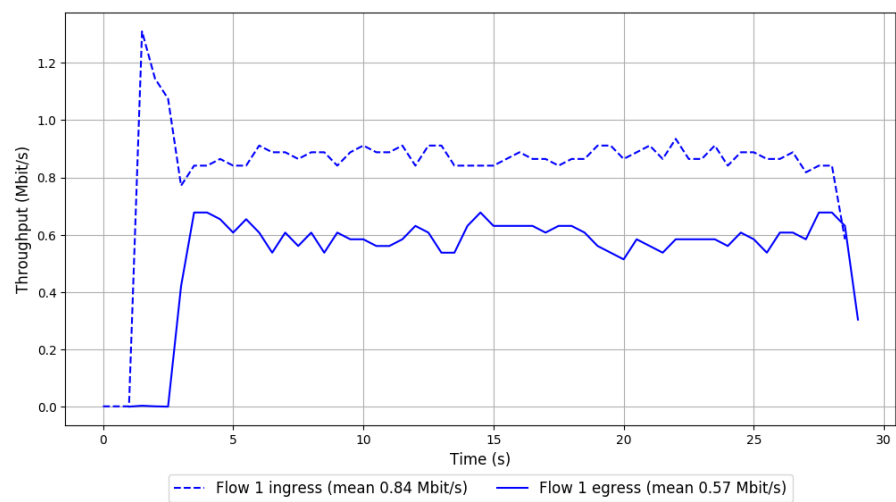
-- Flow 1:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 9425.166 ms

Loss rate: 35.55%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-01-19 04:04:39

End at: 2019-01-19 04:05:09

Local clock offset: -1.77 ms

Remote clock offset: 3.104 ms

Below is generated by plot.py at 2019-01-19 04:46:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 9460.420 ms

Loss rate: 35.43%

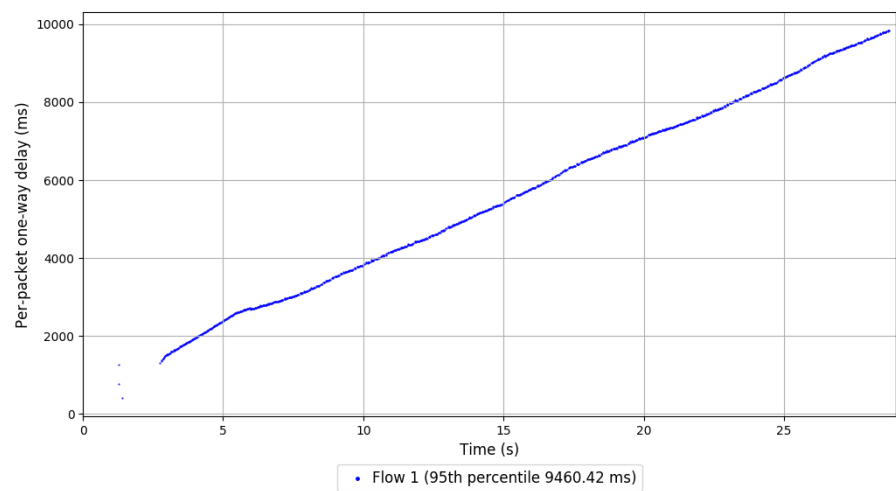
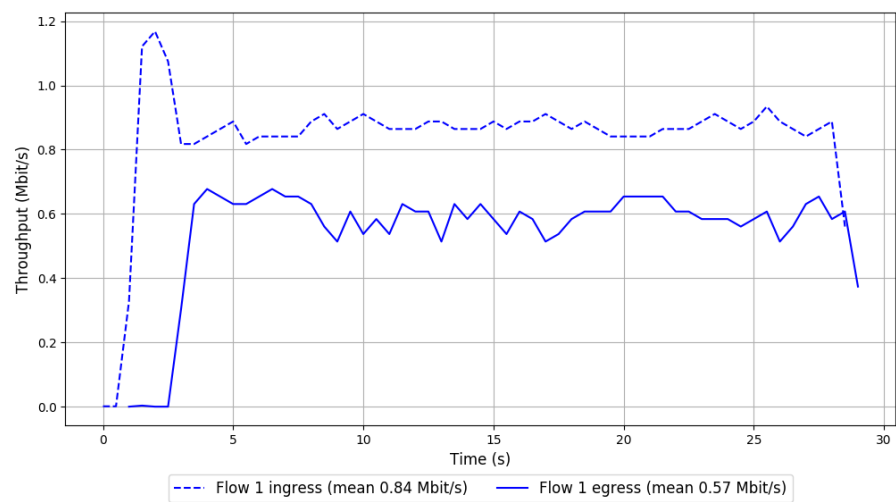
-- Flow 1:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 9460.420 ms

Loss rate: 35.43%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-01-19 04:28:36

End at: 2019-01-19 04:29:06

Local clock offset: -2.163 ms

Remote clock offset: 3.787 ms

Below is generated by plot.py at 2019-01-19 04:46:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 9245.528 ms

Loss rate: 35.49%

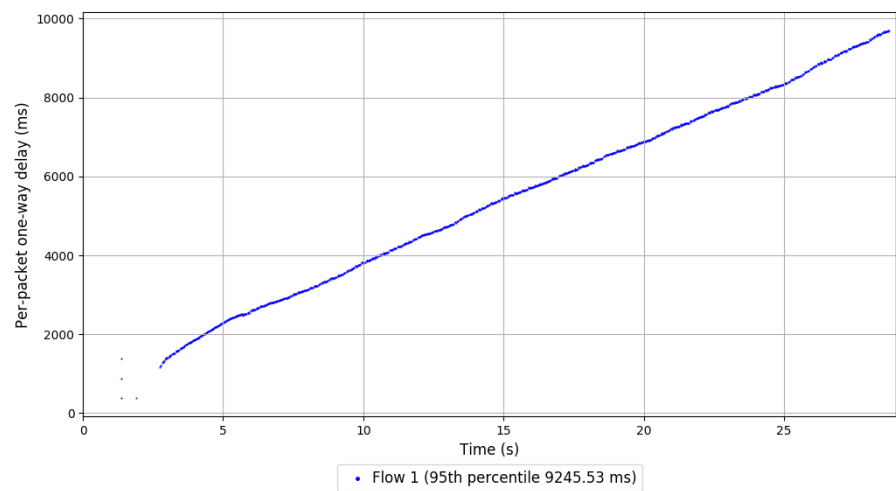
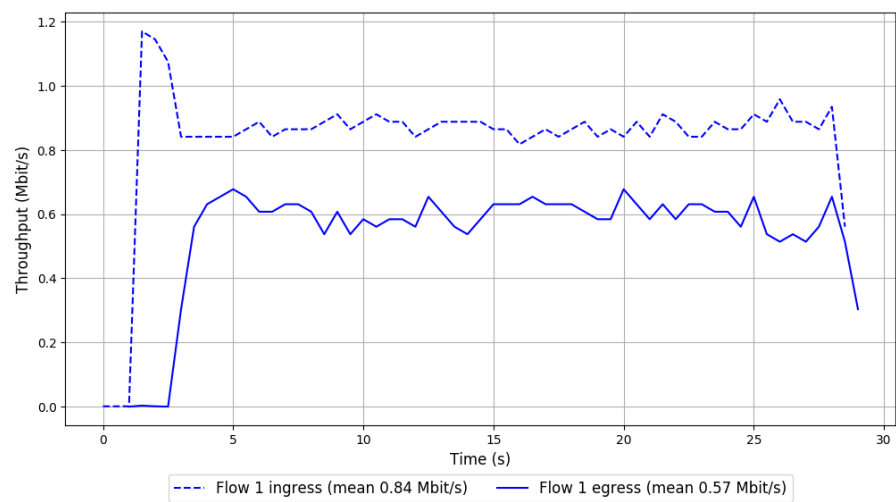
-- Flow 1:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 9245.528 ms

Loss rate: 35.49%

Run 3: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-01-19 03:34:58

End at: 2019-01-19 03:35:28

Local clock offset: -0.852 ms

Remote clock offset: 2.927 ms

Below is generated by plot.py at 2019-01-19 04:46:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 20187.655 ms

Loss rate: 54.99%

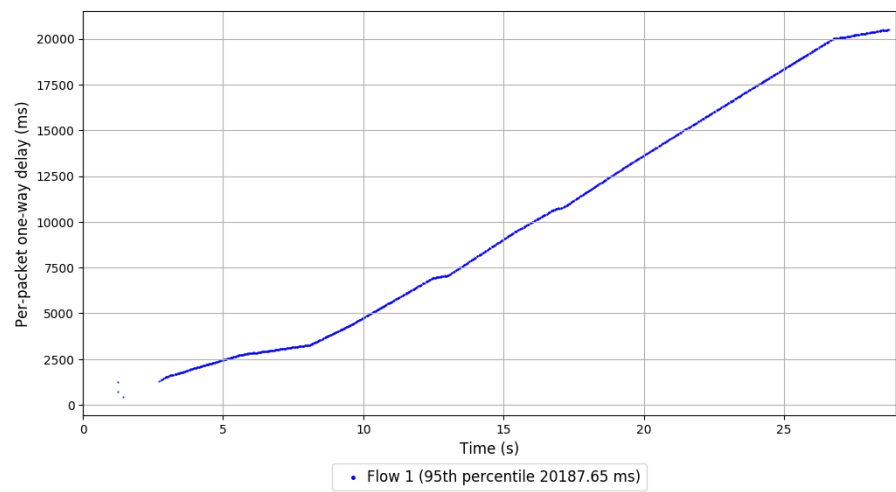
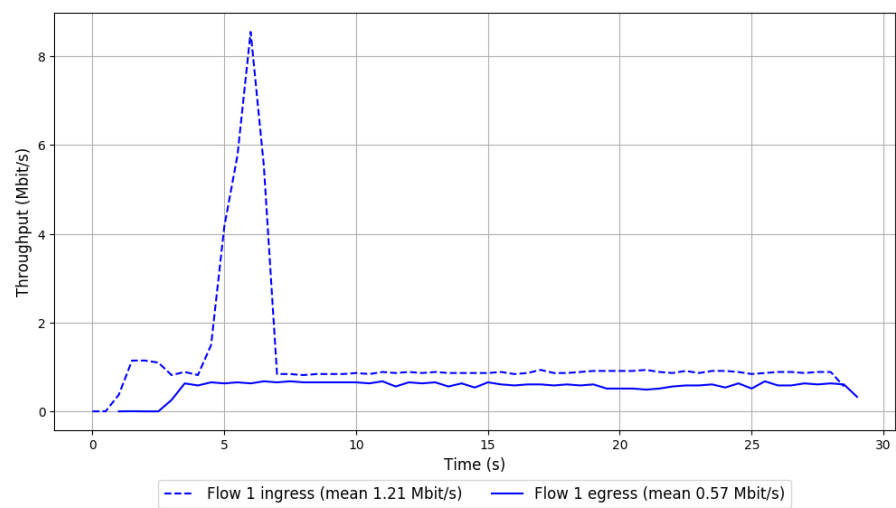
-- Flow 1:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 20187.655 ms

Loss rate: 54.99%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-01-19 03:58:57

End at: 2019-01-19 03:59:27

Local clock offset: -0.848 ms

Remote clock offset: 7.772 ms

Below is generated by plot.py at 2019-01-19 04:46:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 19833.757 ms

Loss rate: 54.31%

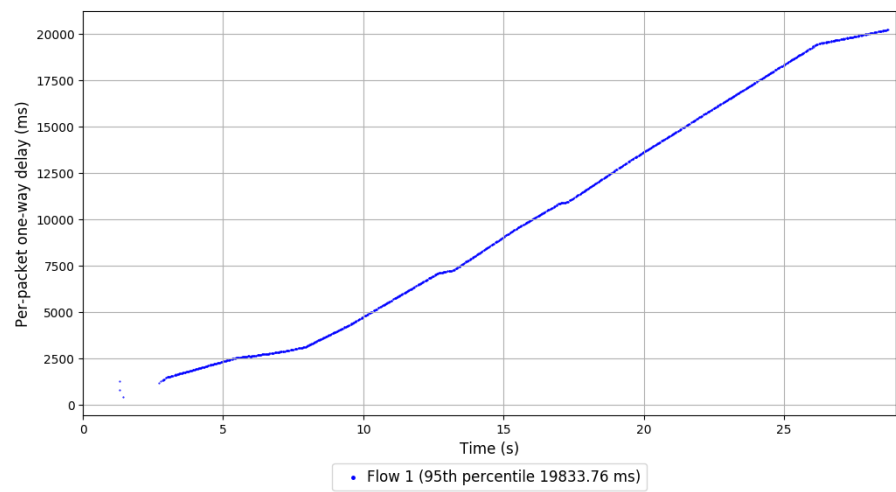
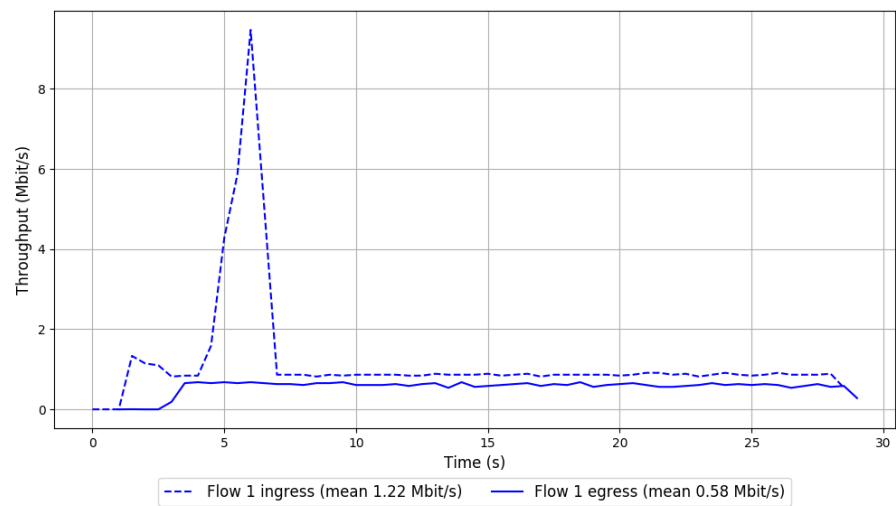
-- Flow 1:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 19833.757 ms

Loss rate: 54.31%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-01-19 04:22:53

End at: 2019-01-19 04:23:23

Local clock offset: -2.001 ms

Remote clock offset: 7.453 ms

Below is generated by plot.py at 2019-01-19 04:46:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 20202.447 ms

Loss rate: 54.74%

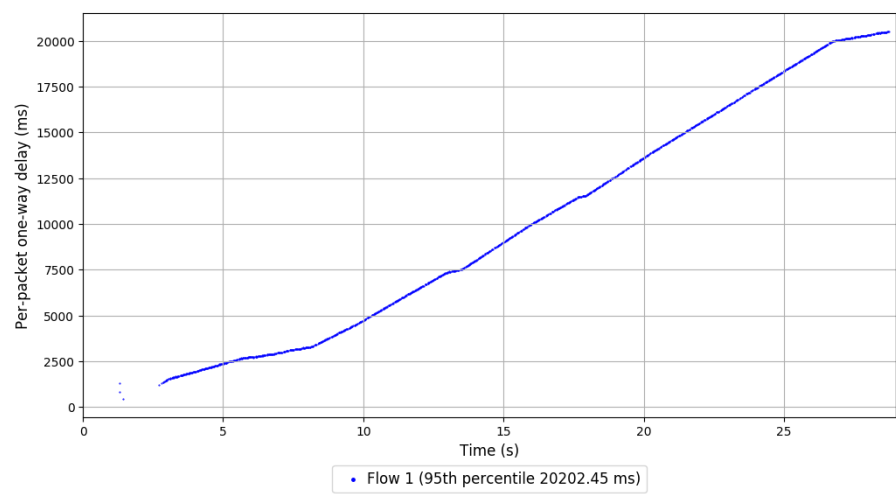
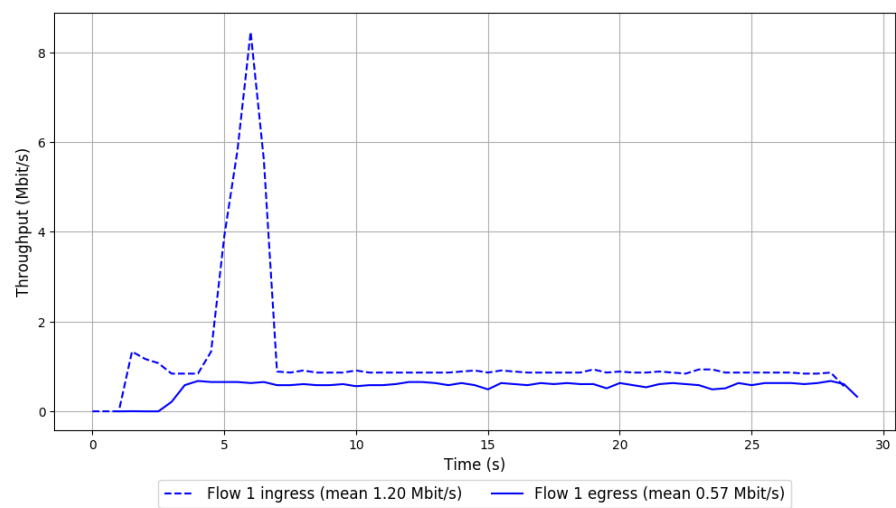
-- Flow 1:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 20202.447 ms

Loss rate: 54.74%

Run 3: Report of Indigo-MusesT — Data Link

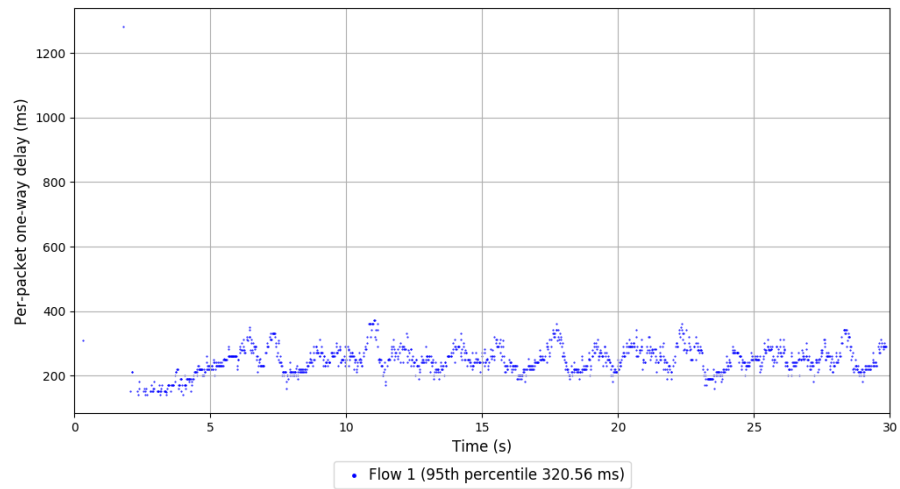
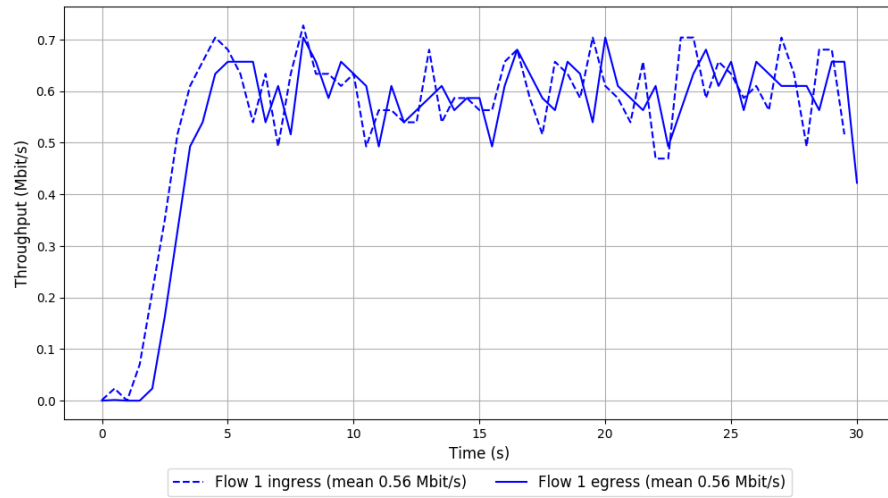



```
Run 1: Statistics of LEDBAT

Start at: 2019-01-19 03:47:33
End at: 2019-01-19 03:48:03
Local clock offset: -0.278 ms
Remote clock offset: 3.505 ms

# Below is generated by plot.py at 2019-01-19 04:46:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 320.558 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 320.558 ms
Loss rate: 1.27%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-01-19 04:11:31

End at: 2019-01-19 04:12:01

Local clock offset: -1.723 ms

Remote clock offset: 8.854 ms

Below is generated by plot.py at 2019-01-19 04:46:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 306.509 ms

Loss rate: 1.29%

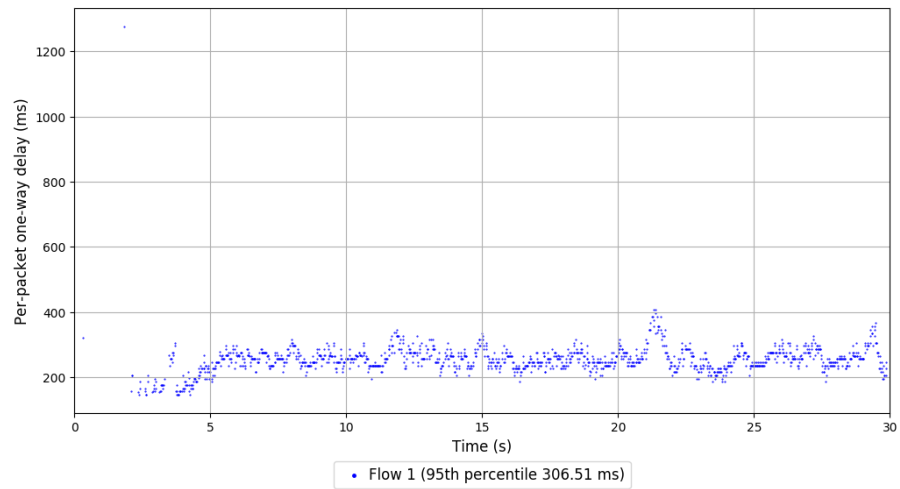
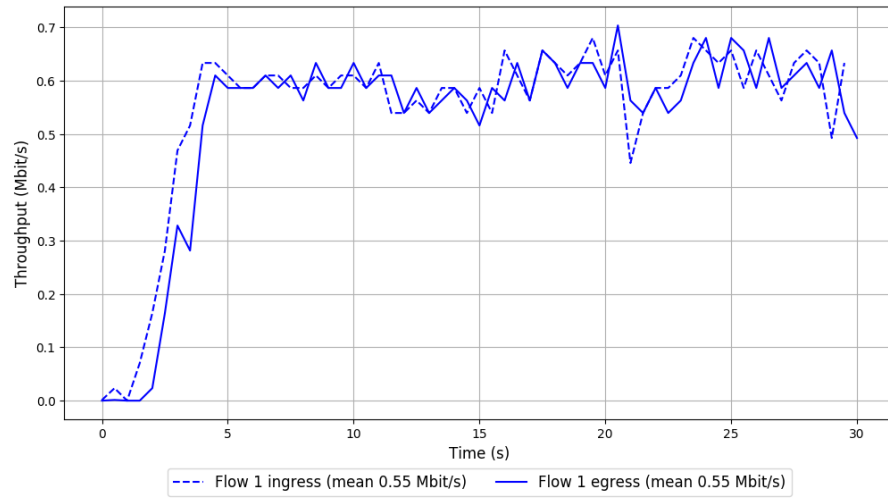
-- Flow 1:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 306.509 ms

Loss rate: 1.29%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-01-19 04:35:27

End at: 2019-01-19 04:35:57

Local clock offset: -1.439 ms

Remote clock offset: 6.079 ms

Below is generated by plot.py at 2019-01-19 04:46:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 333.796 ms

Loss rate: 1.40%

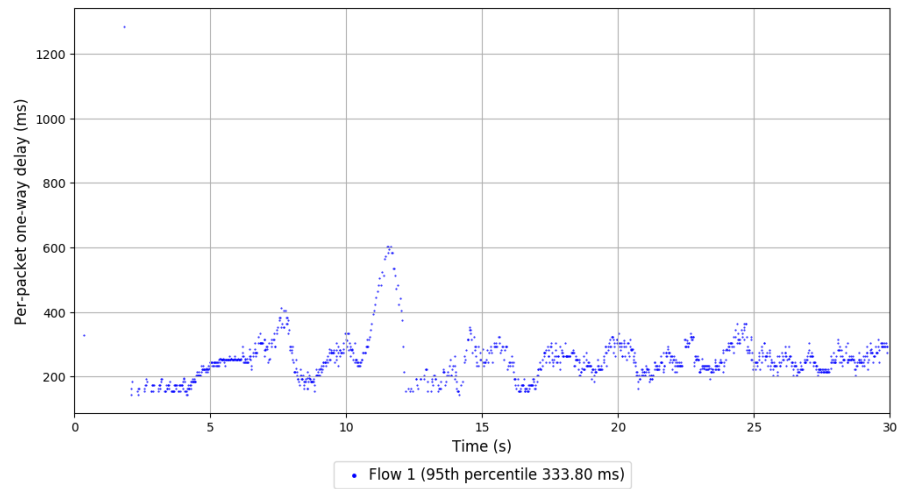
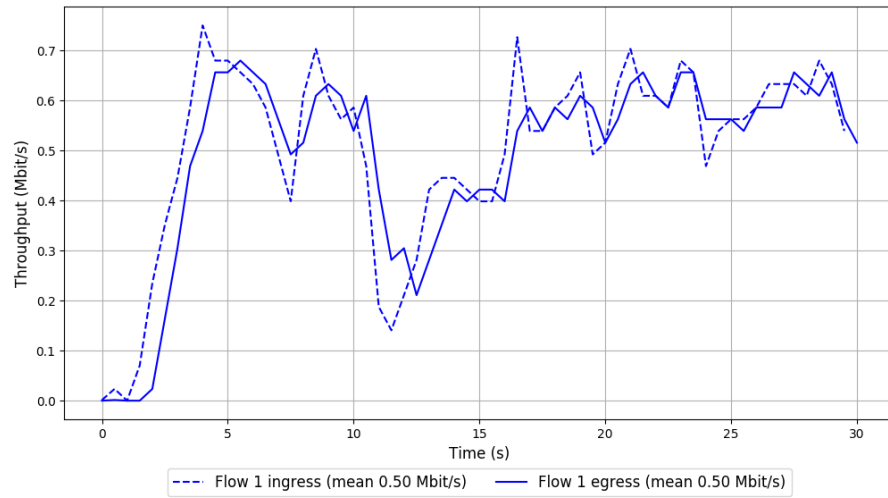
-- Flow 1:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 333.796 ms

Loss rate: 1.40%

Run 3: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-01-19 03:45:15

End at: 2019-01-19 03:45:45

Local clock offset: 0.432 ms

Remote clock offset: 8.375 ms

Below is generated by plot.py at 2019-01-19 04:46:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 26097.557 ms

Loss rate: 98.62%

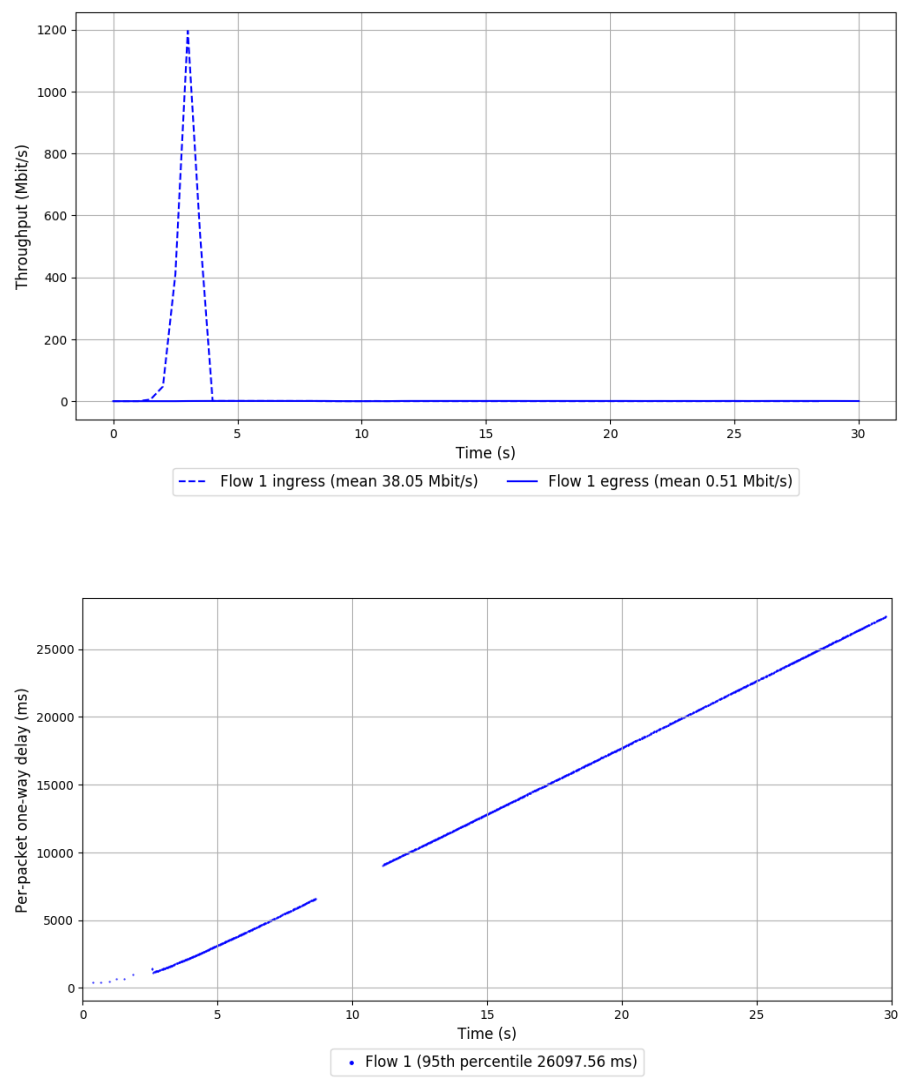
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 26097.557 ms

Loss rate: 98.62%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-01-19 04:09:12

End at: 2019-01-19 04:09:42

Local clock offset: -1.813 ms

Remote clock offset: 2.617 ms

Below is generated by plot.py at 2019-01-19 04:46:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 26183.179 ms

Loss rate: 98.10%

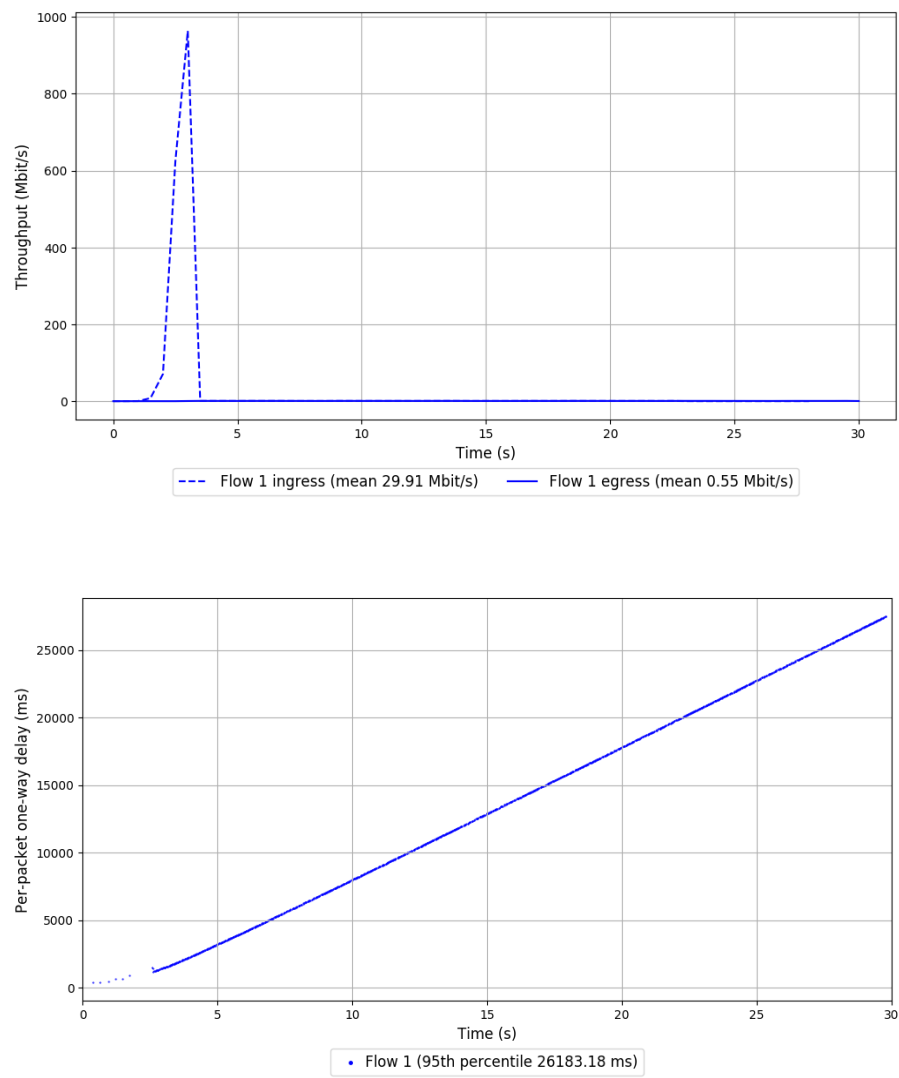
-- Flow 1:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 26183.179 ms

Loss rate: 98.10%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-01-19 04:33:09

End at: 2019-01-19 04:33:39

Local clock offset: -1.423 ms

Remote clock offset: 7.271 ms

Below is generated by plot.py at 2019-01-19 04:46:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 26019.860 ms

Loss rate: 98.51%

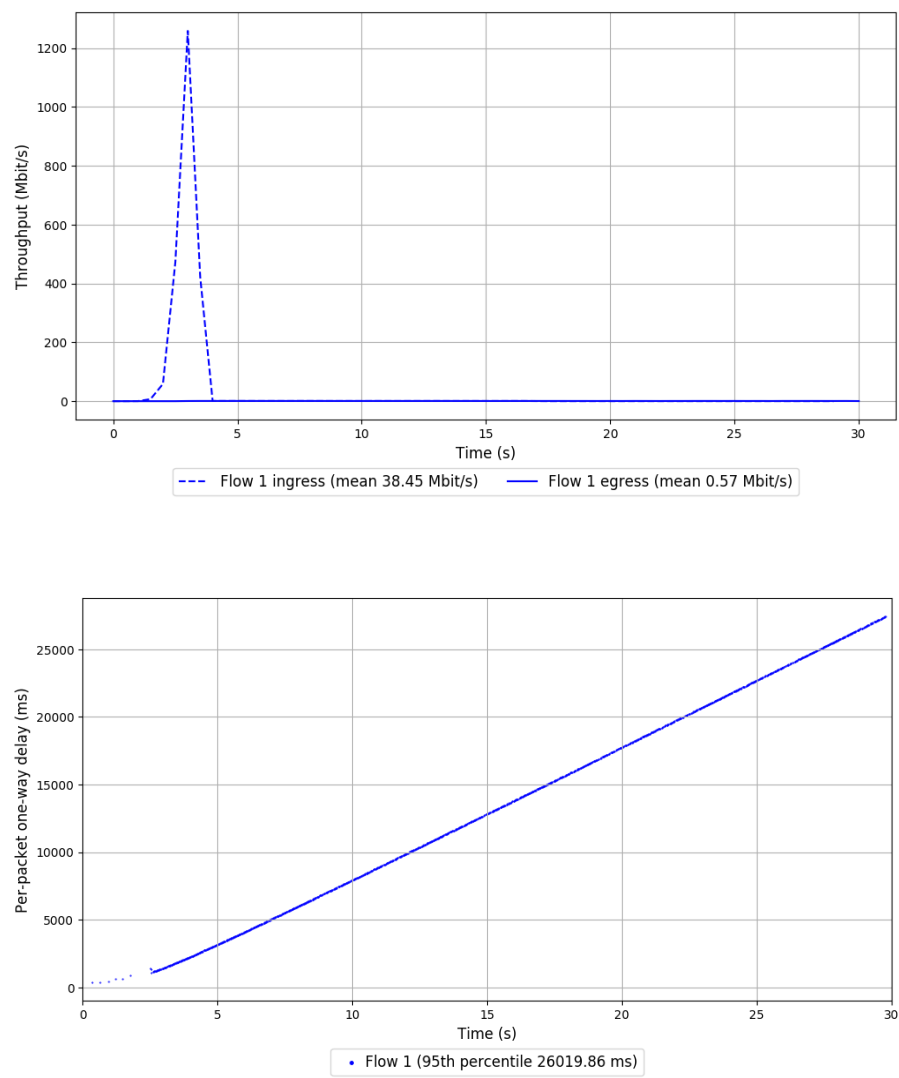
-- Flow 1:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 26019.860 ms

Loss rate: 98.51%

Run 3: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2019-01-19 03:38:25

End at: 2019-01-19 03:38:55

Local clock offset: -1.06 ms

Remote clock offset: 8.126 ms

Below is generated by plot.py at 2019-01-19 04:46:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 25672.910 ms

Loss rate: 90.86%

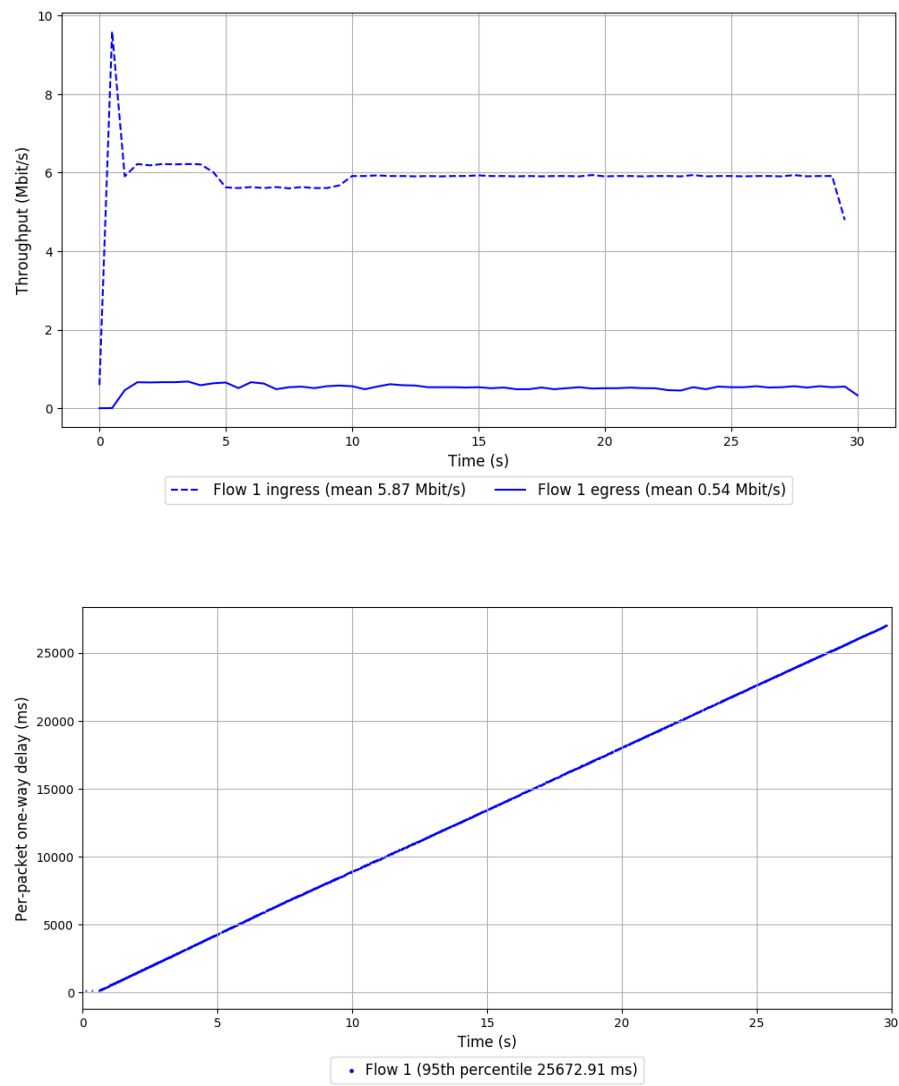
-- Flow 1:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 25672.910 ms

Loss rate: 90.86%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-01-19 04:02:23

End at: 2019-01-19 04:02:53

Local clock offset: -1.022 ms

Remote clock offset: 9.337 ms

Below is generated by plot.py at 2019-01-19 04:46:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 25516.854 ms

Loss rate: 90.27%

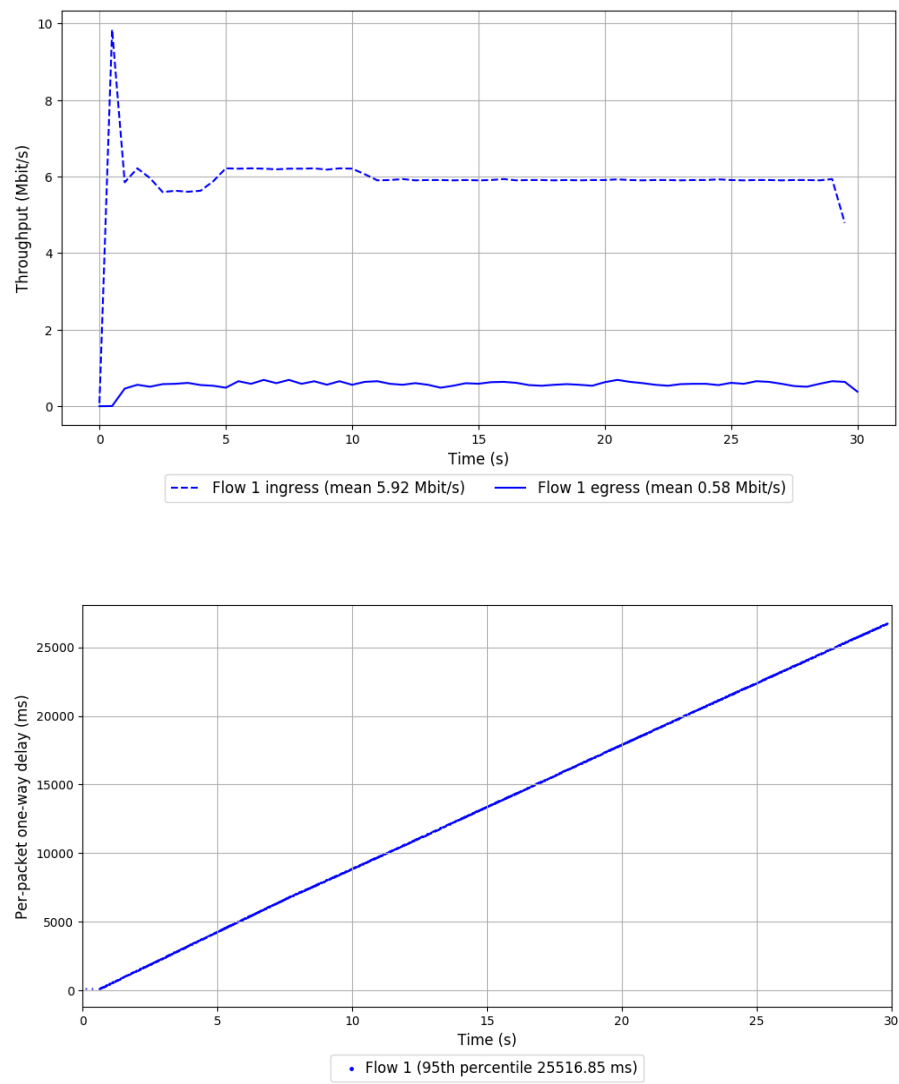
-- Flow 1:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 25516.854 ms

Loss rate: 90.27%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-01-19 04:26:20

End at: 2019-01-19 04:26:50

Local clock offset: -2.111 ms

Remote clock offset: 7.455 ms

Below is generated by plot.py at 2019-01-19 04:46:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 25404.740 ms

Loss rate: 90.08%

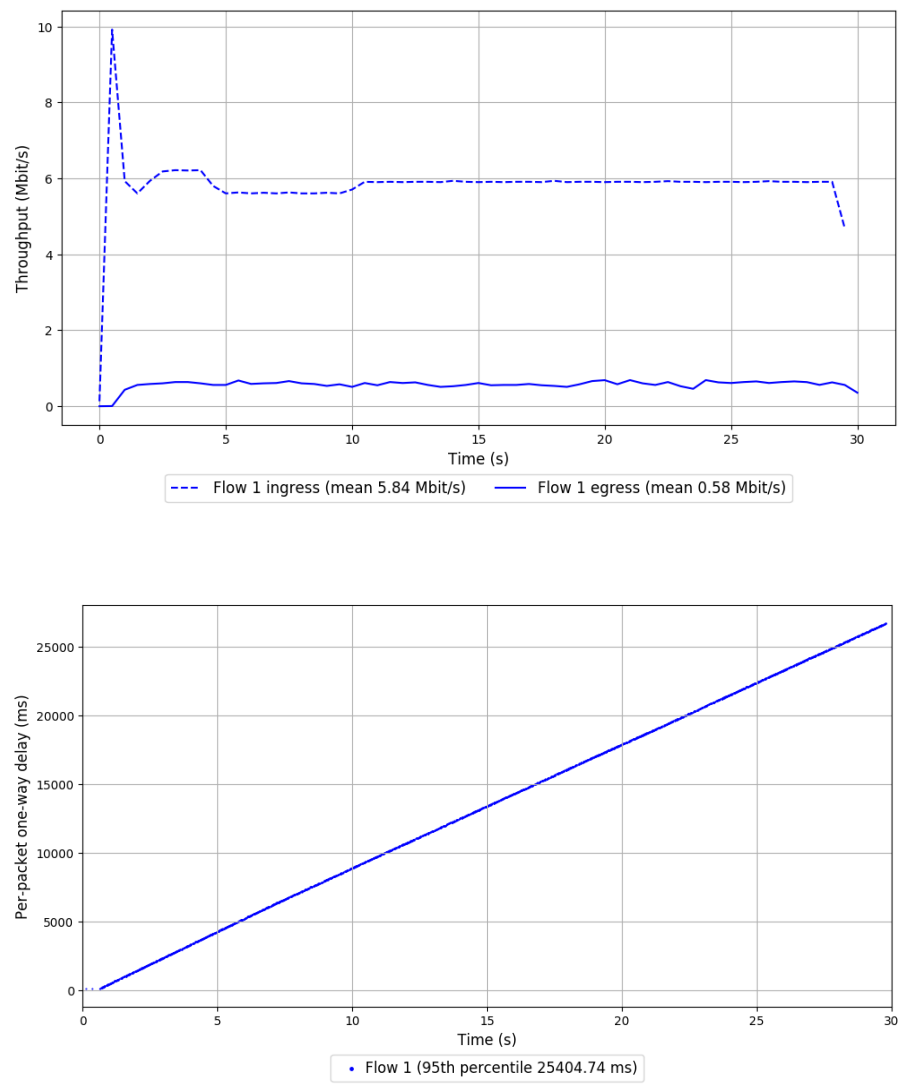
-- Flow 1:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 25404.740 ms

Loss rate: 90.08%

Run 3: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-01-19 03:50:57

End at: 2019-01-19 03:51:27

Local clock offset: -0.208 ms

Remote clock offset: 7.26 ms

Below is generated by plot.py at 2019-01-19 04:46:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 8969.385 ms

Loss rate: 32.81%

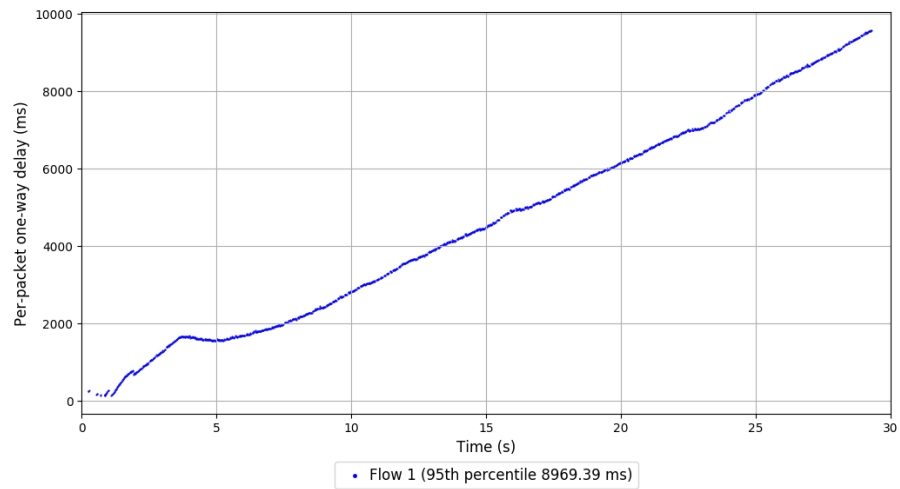
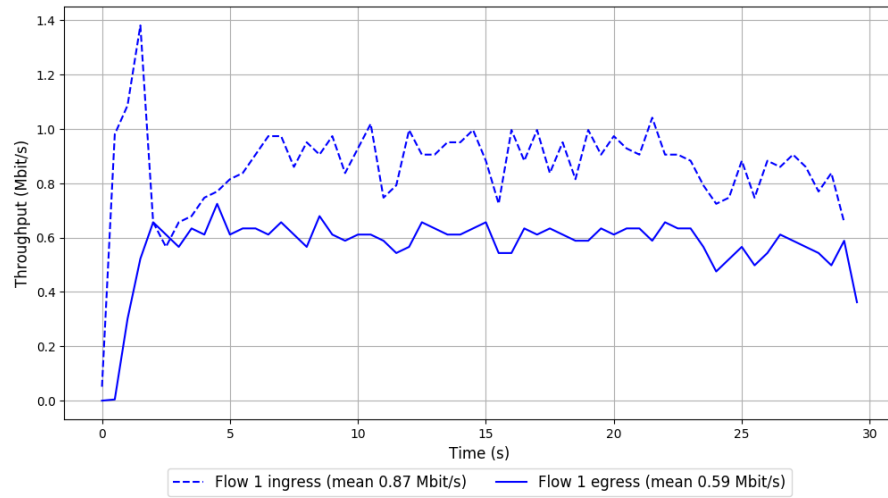
-- Flow 1:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 8969.385 ms

Loss rate: 32.81%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-01-19 04:14:55

End at: 2019-01-19 04:15:25

Local clock offset: -1.735 ms

Remote clock offset: 2.602 ms

Below is generated by plot.py at 2019-01-19 04:46:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.60 Mbit/s

95th percentile per-packet one-way delay: 8766.428 ms

Loss rate: 32.75%

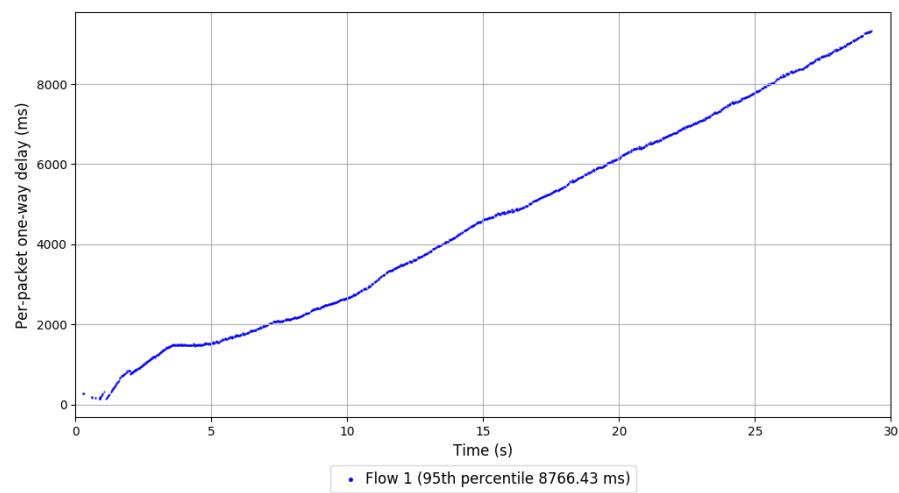
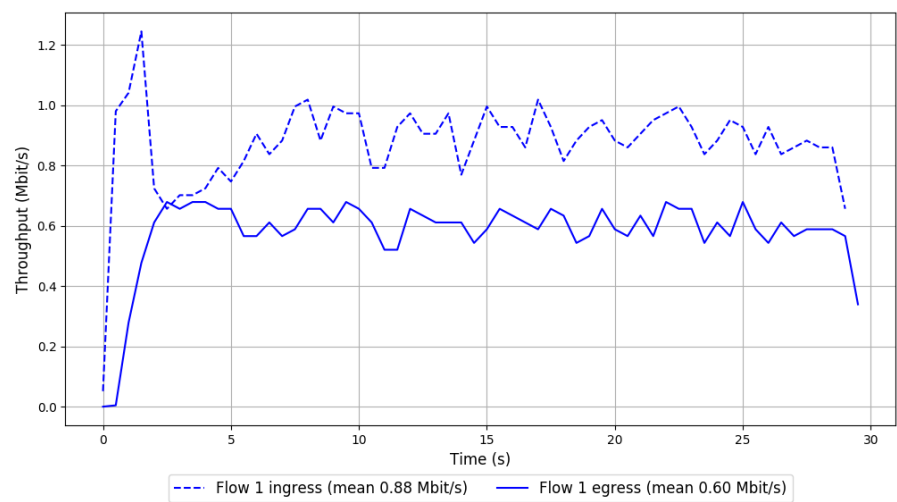
-- Flow 1:

Average throughput: 0.60 Mbit/s

95th percentile per-packet one-way delay: 8766.428 ms

Loss rate: 32.75%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-01-19 04:38:51

End at: 2019-01-19 04:39:21

Local clock offset: -1.416 ms

Remote clock offset: 2.395 ms

Below is generated by plot.py at 2019-01-19 04:46:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 9573.901 ms

Loss rate: 32.73%

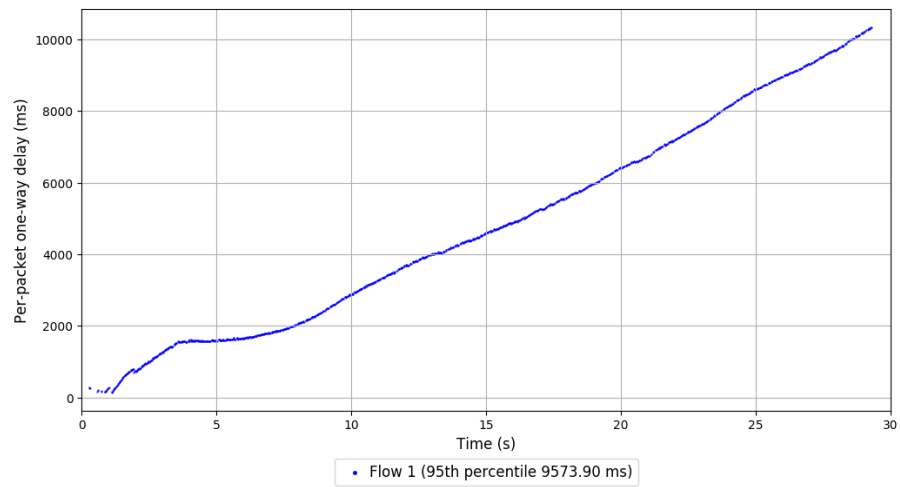
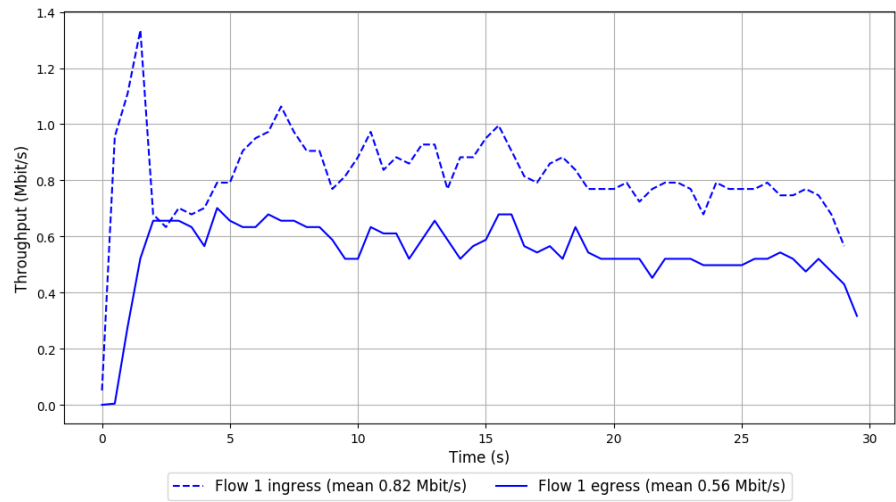
-- Flow 1:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 9573.901 ms

Loss rate: 32.73%

Run 3: Report of QUIC Cubic — Data Link

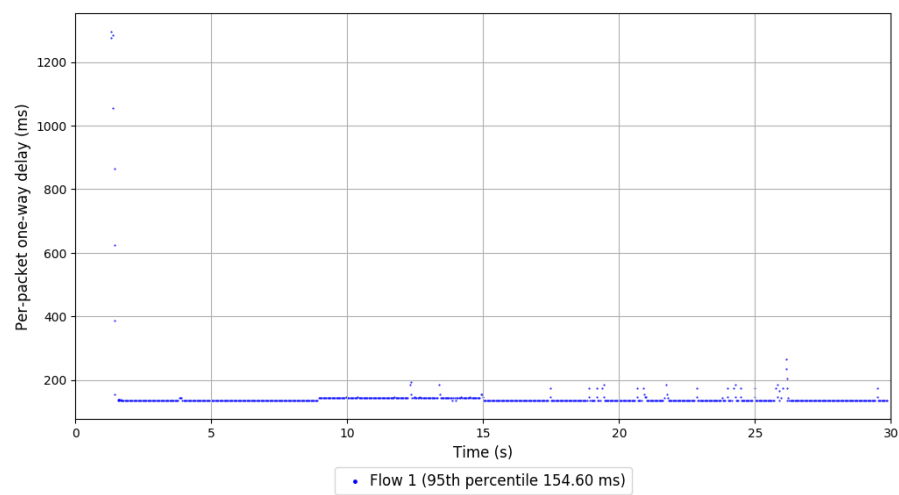
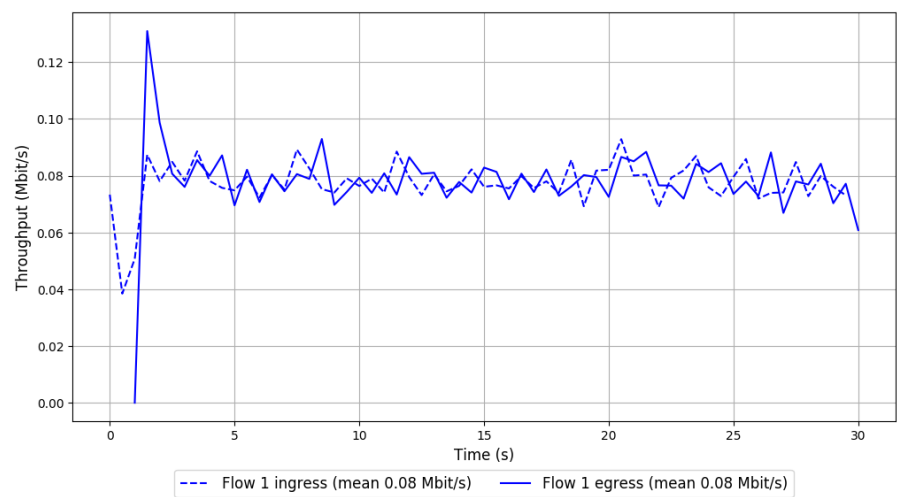



```
Run 1: Statistics of SCReAM

Start at: 2019-01-19 03:48:41
End at: 2019-01-19 03:49:11
Local clock offset: 0.251 ms
Remote clock offset: 8.38 ms

# Below is generated by plot.py at 2019-01-19 04:46:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 154.598 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 154.598 ms
Loss rate: 0.79%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-01-19 04:12:39

End at: 2019-01-19 04:13:09

Local clock offset: -1.716 ms

Remote clock offset: 7.856 ms

Below is generated by plot.py at 2019-01-19 04:46:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 131.638 ms

Loss rate: 0.66%

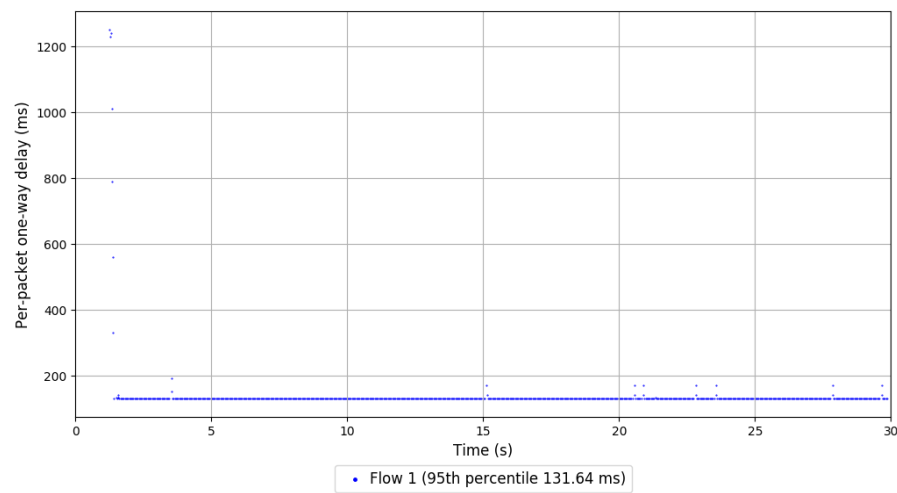
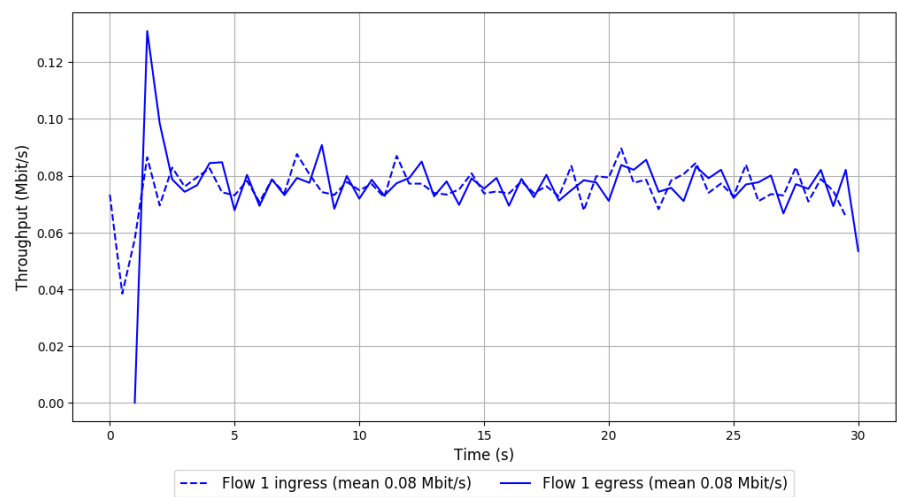
-- Flow 1:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 131.638 ms

Loss rate: 0.66%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-01-19 04:36:35

End at: 2019-01-19 04:37:05

Local clock offset: -2.204 ms

Remote clock offset: 2.589 ms

Below is generated by plot.py at 2019-01-19 04:46:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 133.168 ms

Loss rate: 0.66%

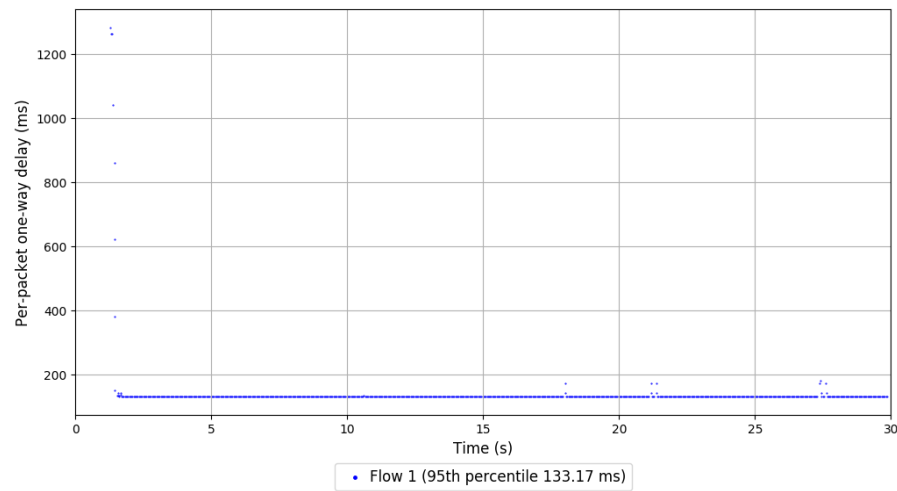
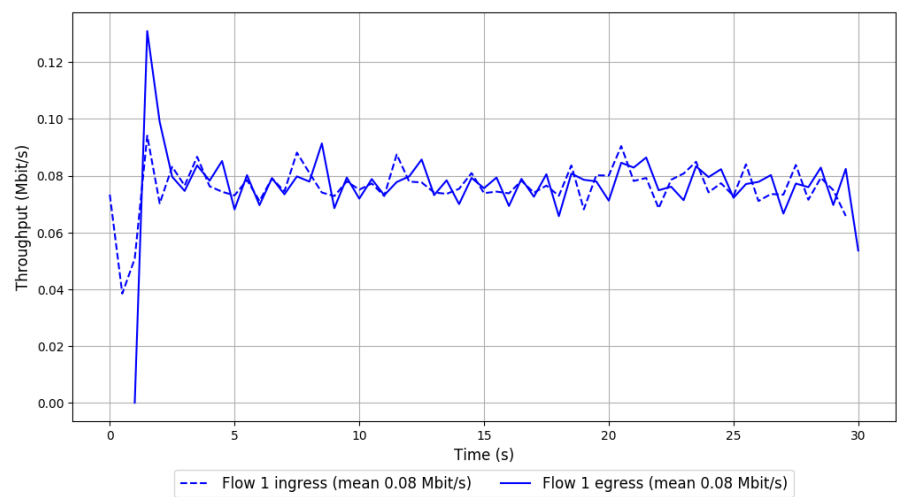
-- Flow 1:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 133.168 ms

Loss rate: 0.66%

Run 3: Report of SReAM — Data Link

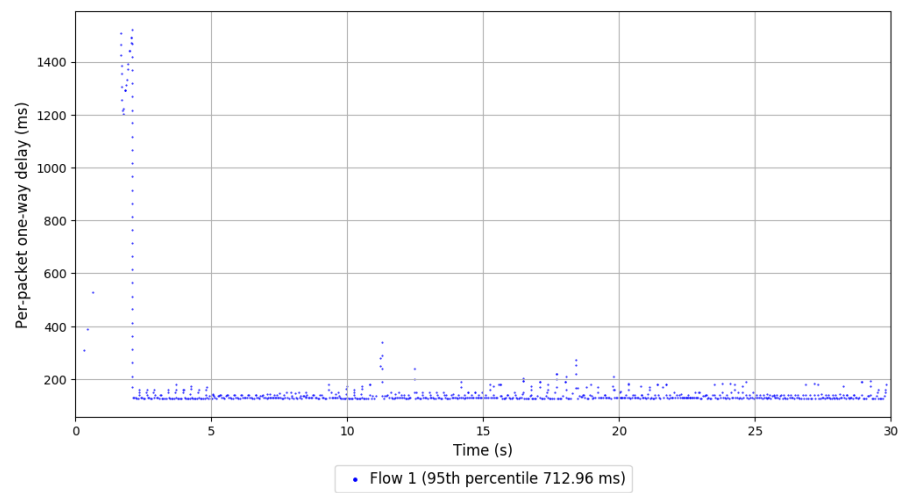
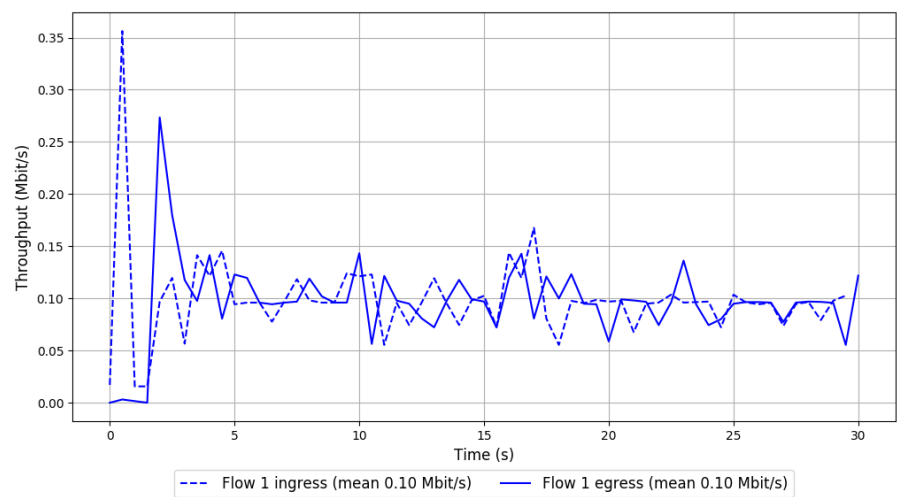


Run 1: Statistics of Sprout

Start at: 2019-01-19 03:56:40
End at: 2019-01-19 03:57:10
Local clock offset: -1.509 ms
Remote clock offset: 4.86 ms

Below is generated by plot.py at 2019-01-19 04:46:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 712.959 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 712.959 ms
Loss rate: 0.45%

Run 1: Report of Sprout — Data Link

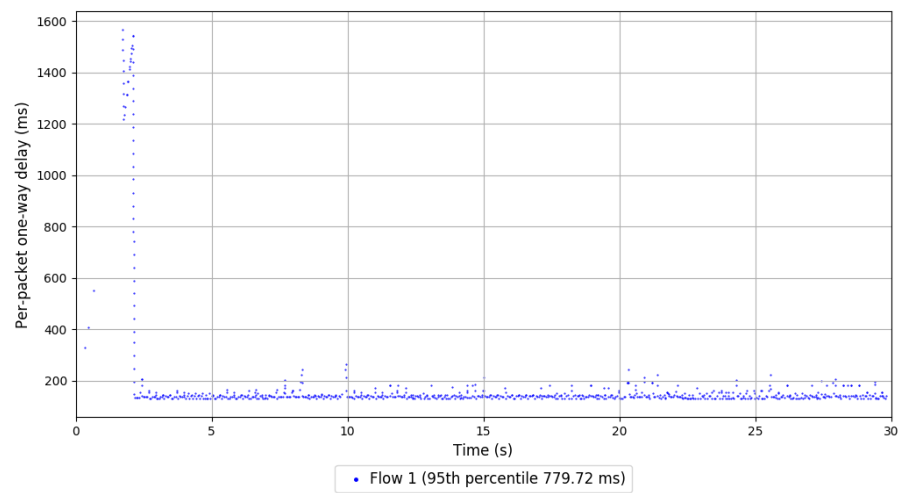
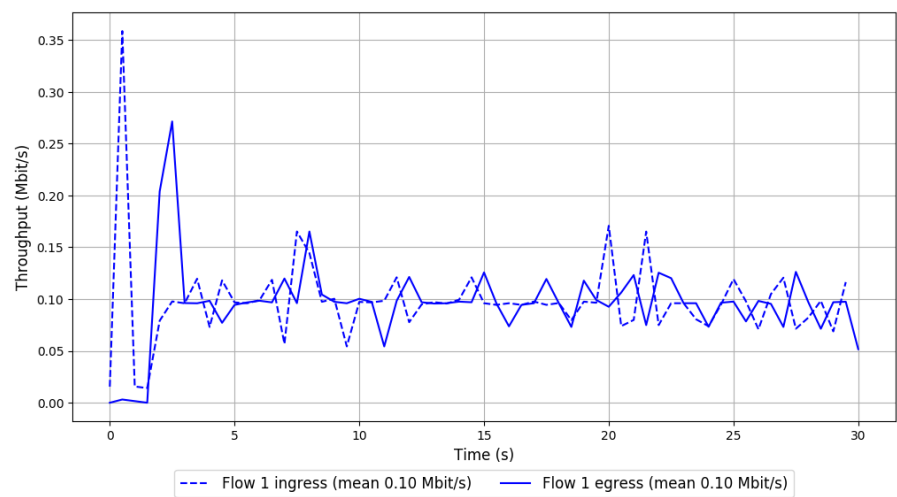


Run 2: Statistics of Sprout

Start at: 2019-01-19 04:20:37
End at: 2019-01-19 04:21:07
Local clock offset: -1.148 ms
Remote clock offset: 2.607 ms

Below is generated by plot.py at 2019-01-19 04:46:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 779.723 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 779.723 ms
Loss rate: 1.15%

Run 2: Report of Sprout — Data Link

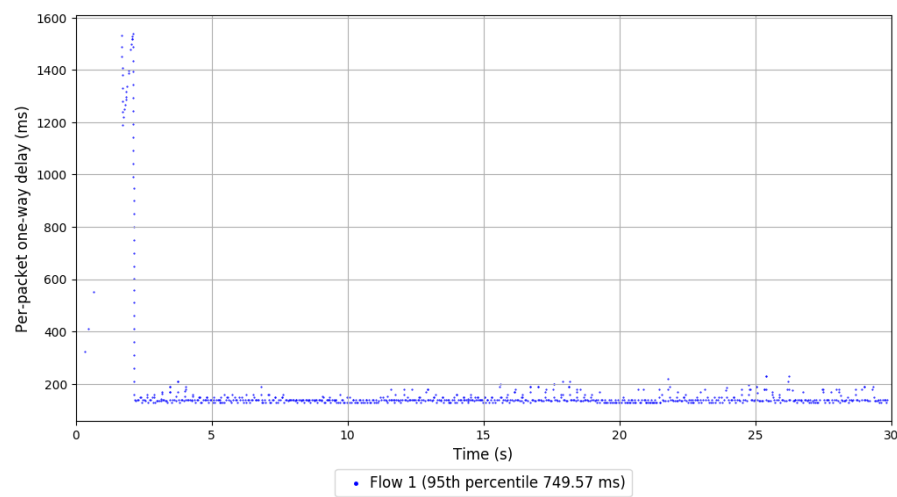
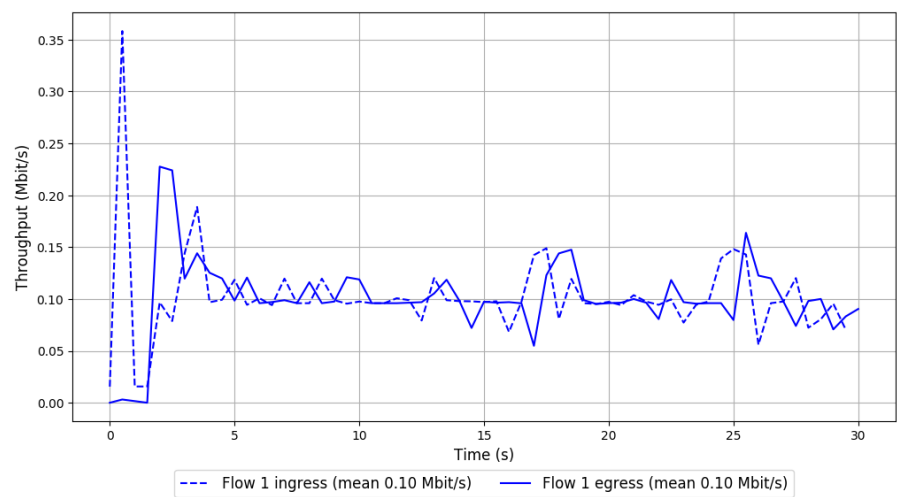


Run 3: Statistics of Sprout

Start at: 2019-01-19 04:44:32
End at: 2019-01-19 04:45:02
Local clock offset: -1.381 ms
Remote clock offset: 3.92 ms

Below is generated by plot.py at 2019-01-19 04:46:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 749.574 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 749.574 ms
Loss rate: 0.38%

Run 3: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-01-19 03:54:24

End at: 2019-01-19 03:54:54

Local clock offset: -0.637 ms

Remote clock offset: 10.02 ms

Below is generated by plot.py at 2019-01-19 04:46:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 972.770 ms

Loss rate: 2.32%

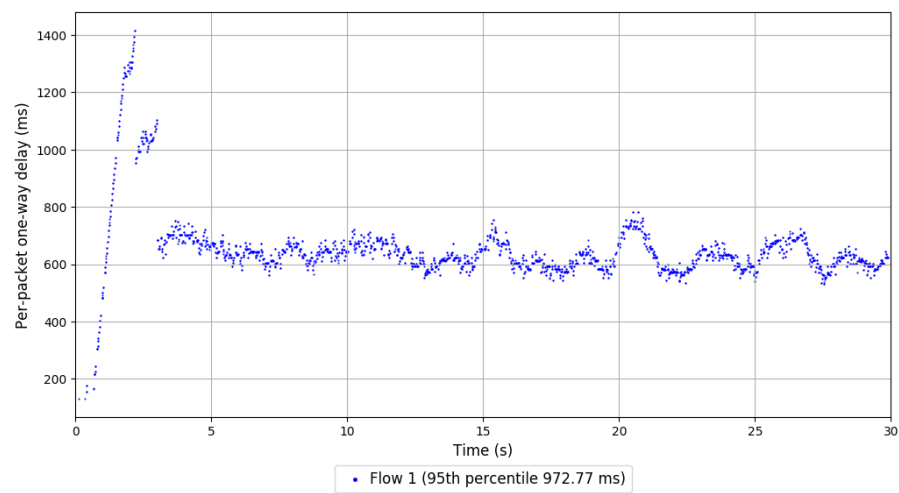
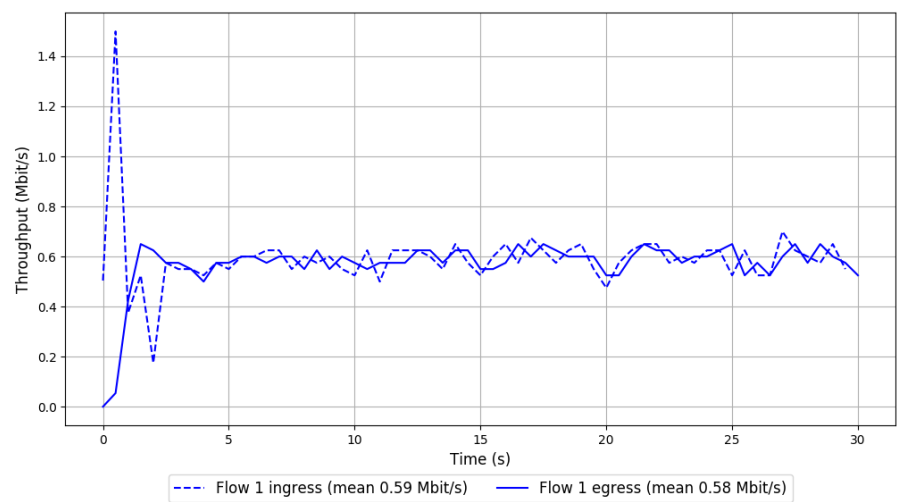
-- Flow 1:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 972.770 ms

Loss rate: 2.32%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-01-19 04:18:20

End at: 2019-01-19 04:18:50

Local clock offset: -1.79 ms

Remote clock offset: 2.69 ms

Below is generated by plot.py at 2019-01-19 04:46:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 947.644 ms

Loss rate: 2.39%

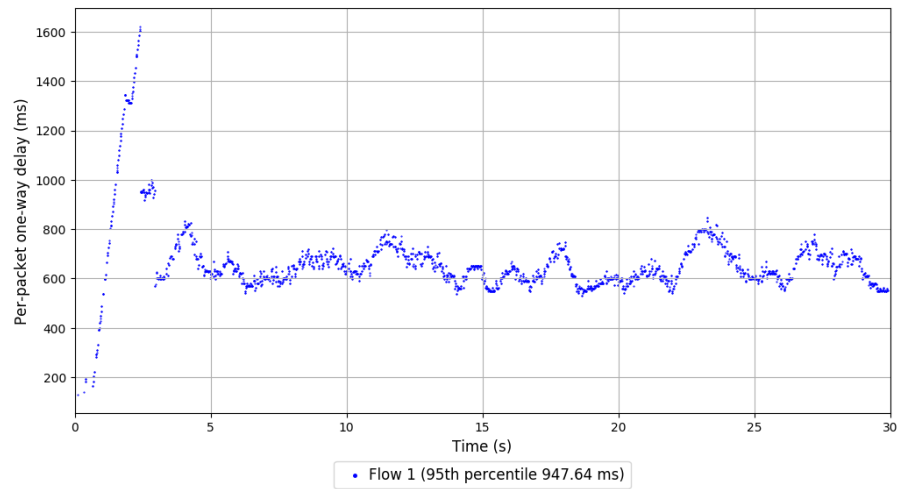
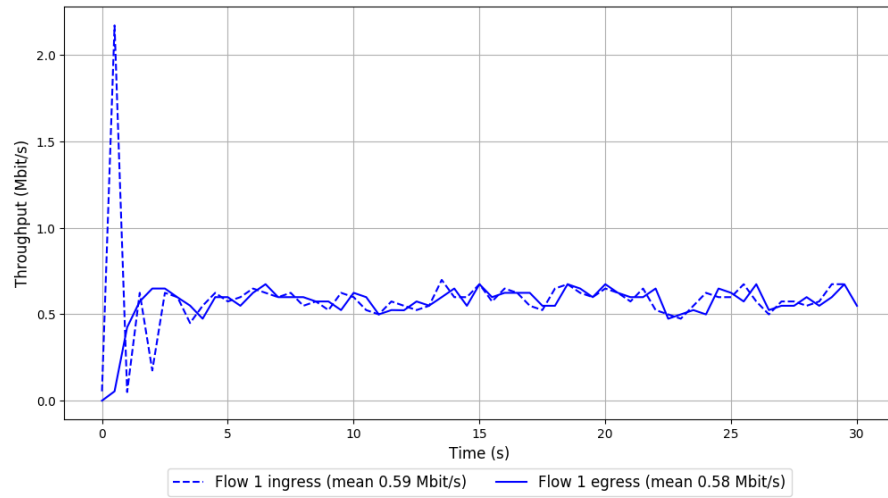
-- Flow 1:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 947.644 ms

Loss rate: 2.39%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-01-19 04:42:16

End at: 2019-01-19 04:42:46

Local clock offset: -1.402 ms

Remote clock offset: 3.841 ms

Below is generated by plot.py at 2019-01-19 04:46:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 1336.476 ms

Loss rate: 11.75%

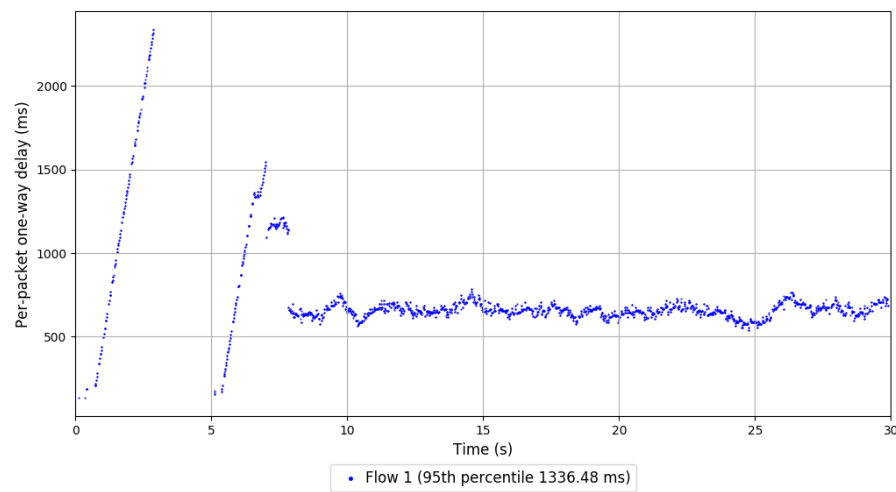
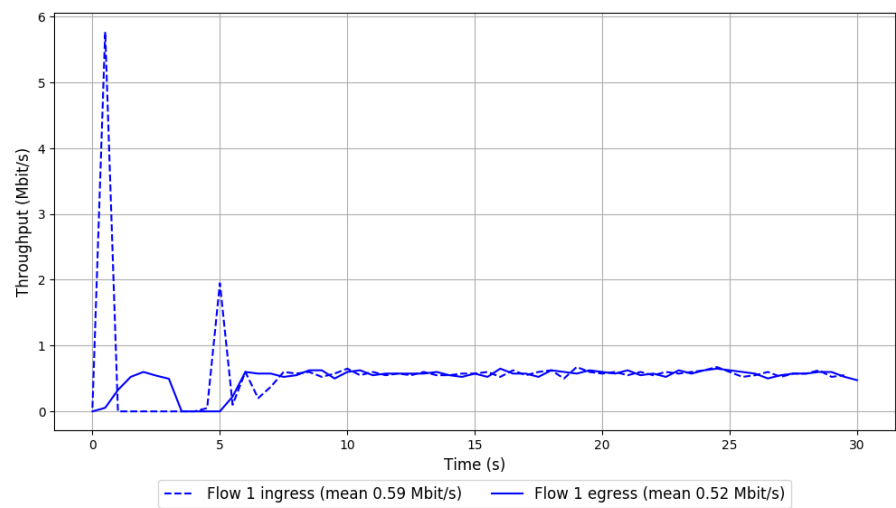
-- Flow 1:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 1336.476 ms

Loss rate: 11.75%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-01-19 03:39:35

End at: 2019-01-19 03:40:05

Local clock offset: -0.144 ms

Remote clock offset: 9.209 ms

Below is generated by plot.py at 2019-01-19 04:46:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 563.845 ms

Loss rate: 0.94%

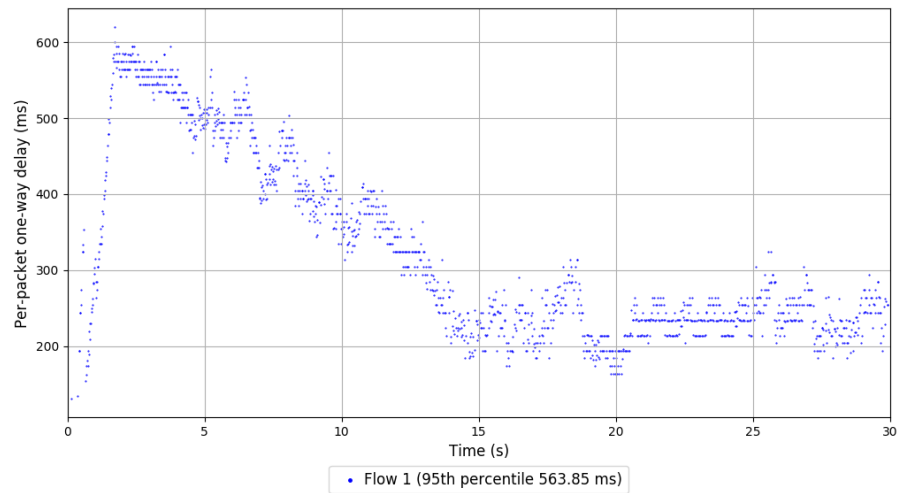
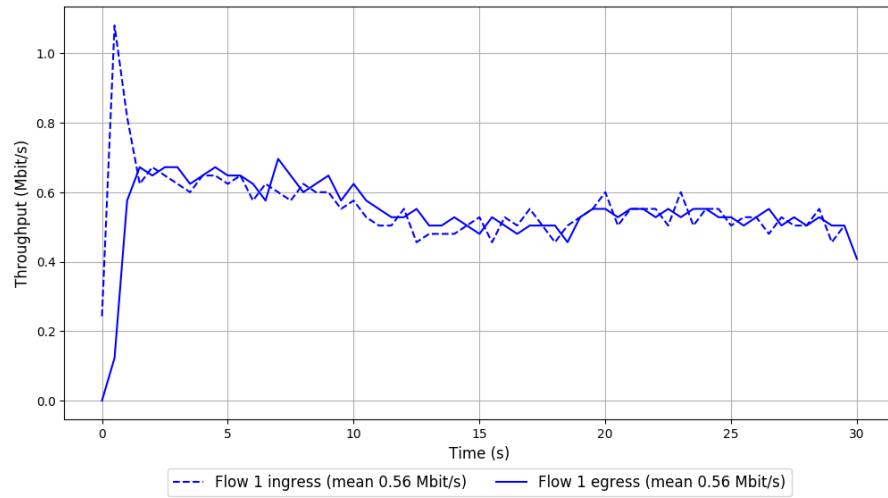
-- Flow 1:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 563.845 ms

Loss rate: 0.94%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-01-19 04:03:31

End at: 2019-01-19 04:04:01

Local clock offset: -0.988 ms

Remote clock offset: 6.852 ms

Below is generated by plot.py at 2019-01-19 04:46:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 322.338 ms

Loss rate: 1.17%

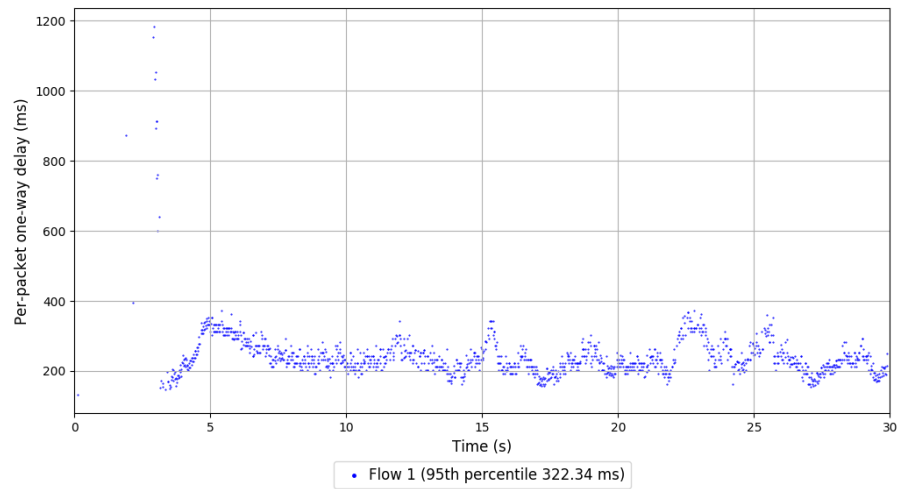
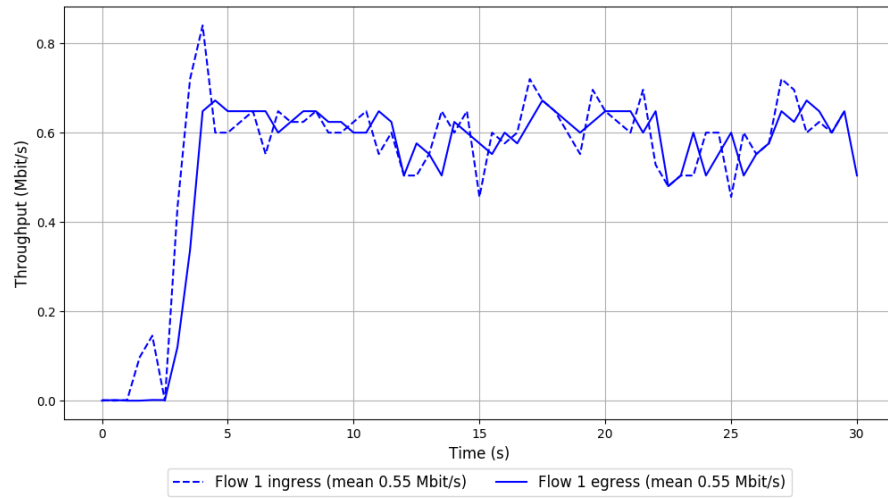
-- Flow 1:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 322.338 ms

Loss rate: 1.17%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-01-19 04:27:28

End at: 2019-01-19 04:27:58

Local clock offset: -2.197 ms

Remote clock offset: 2.482 ms

Below is generated by plot.py at 2019-01-19 04:46:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 835.203 ms

Loss rate: 0.90%

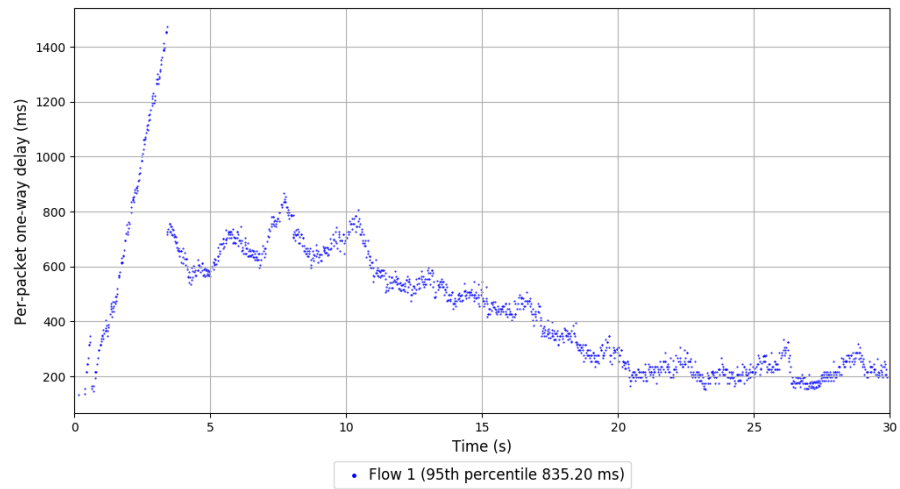
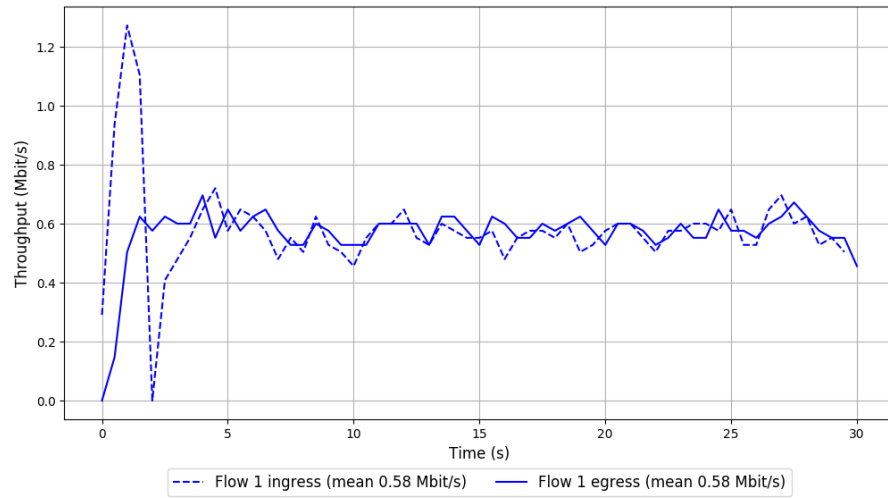
-- Flow 1:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 835.203 ms

Loss rate: 0.90%

Run 3: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-01-19 03:44:07

End at: 2019-01-19 03:44:37

Local clock offset: 0.322 ms

Remote clock offset: 8.393 ms

Below is generated by plot.py at 2019-01-19 04:46:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 1812.562 ms

Loss rate: 4.51%

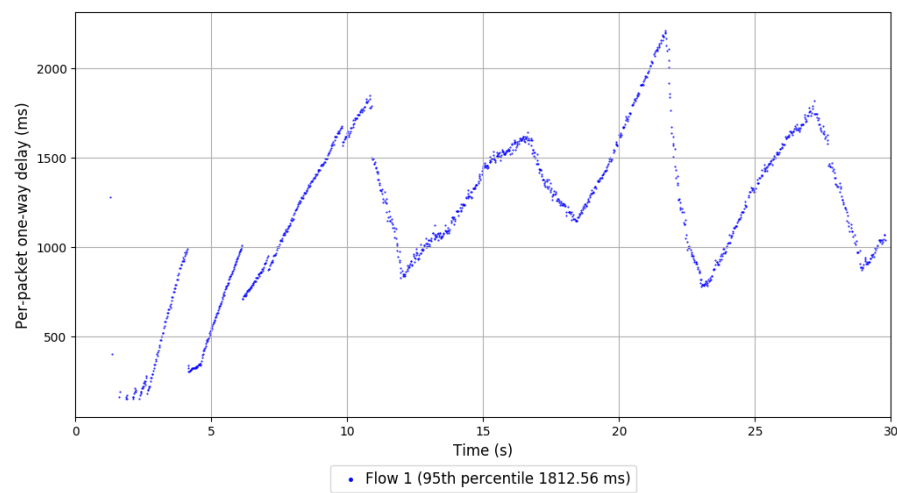
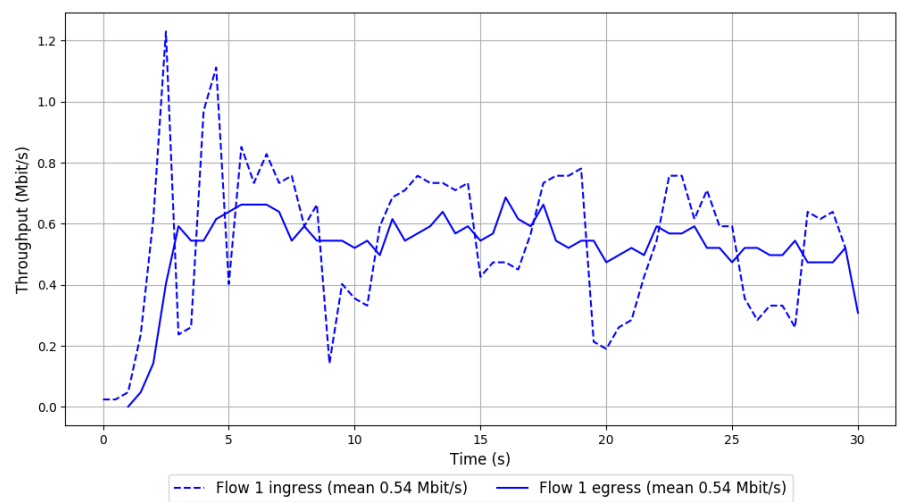
-- Flow 1:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 1812.562 ms

Loss rate: 4.51%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-01-19 04:08:04

End at: 2019-01-19 04:08:34

Local clock offset: -1.827 ms

Remote clock offset: 4.024 ms

Below is generated by plot.py at 2019-01-19 04:46:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 1831.123 ms

Loss rate: 3.53%

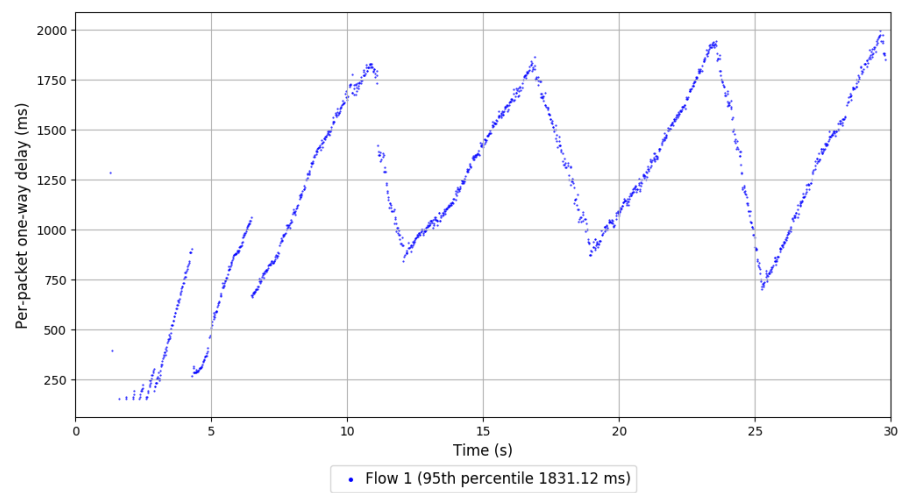
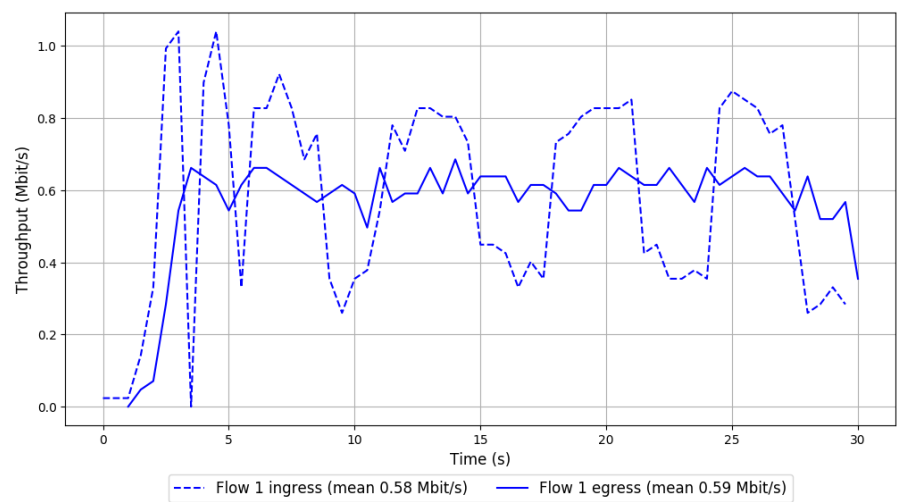
-- Flow 1:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 1831.123 ms

Loss rate: 3.53%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-01-19 04:32:01

End at: 2019-01-19 04:32:31

Local clock offset: -2.191 ms

Remote clock offset: 3.644 ms

Below is generated by plot.py at 2019-01-19 04:46:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 1732.568 ms

Loss rate: 6.02%

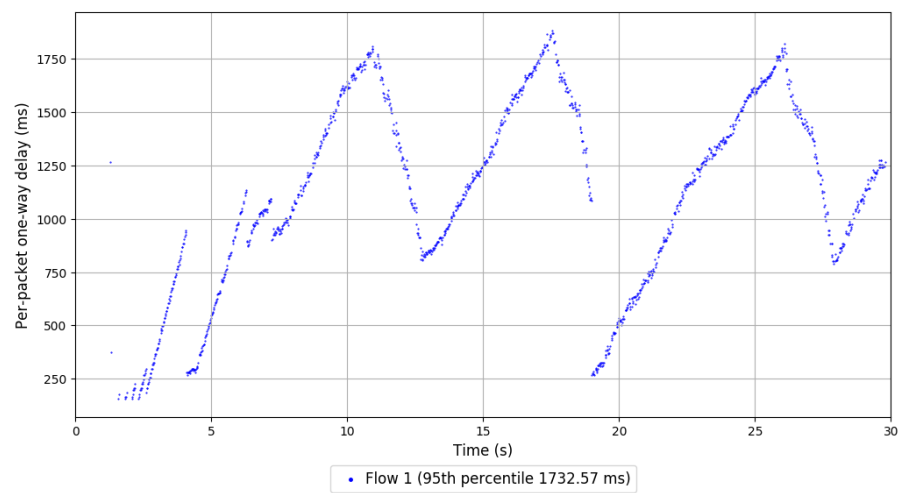
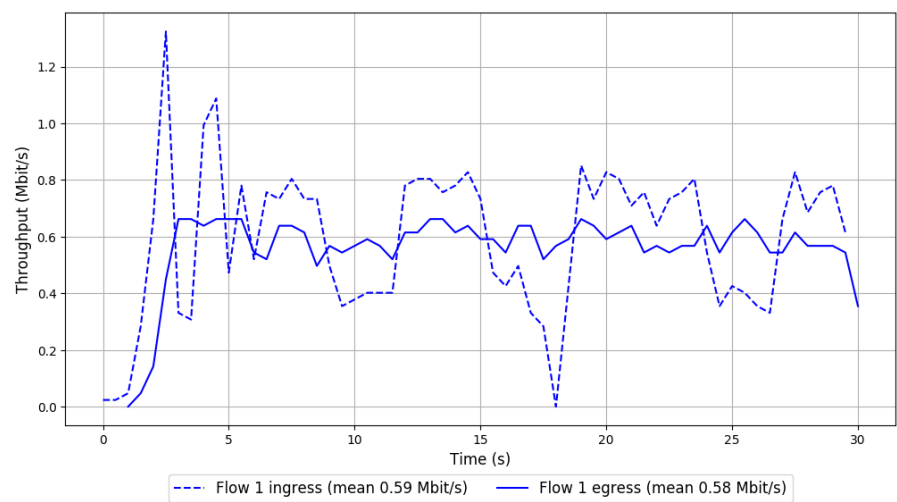
-- Flow 1:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 1732.568 ms

Loss rate: 6.02%

Run 3: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-01-19 03:37:14

End at: 2019-01-19 03:37:44

Local clock offset: -0.458 ms

Remote clock offset: 4.197 ms

Below is generated by plot.py at 2019-01-19 04:46:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 21167.639 ms

Loss rate: 72.72%

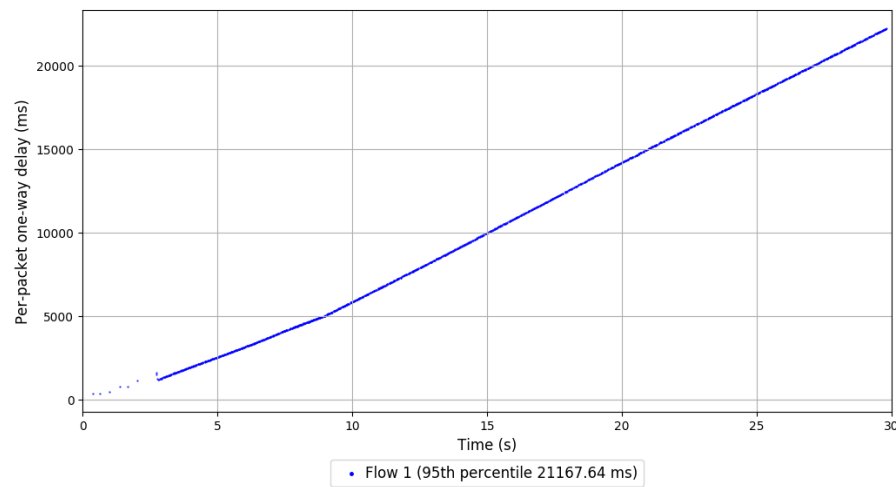
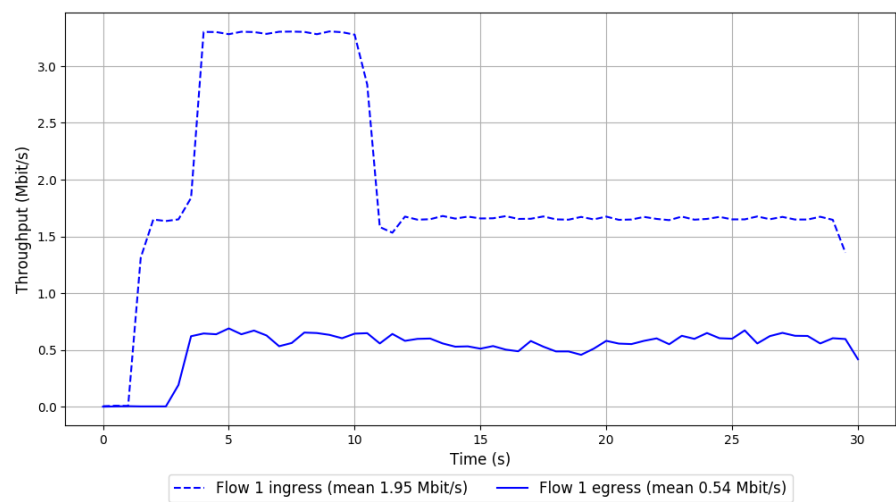
-- Flow 1:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 21167.639 ms

Loss rate: 72.72%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-01-19 04:01:14

End at: 2019-01-19 04:01:44

Local clock offset: -1.774 ms

Remote clock offset: 7.153 ms

Below is generated by plot.py at 2019-01-19 04:46:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 21218.376 ms

Loss rate: 72.03%

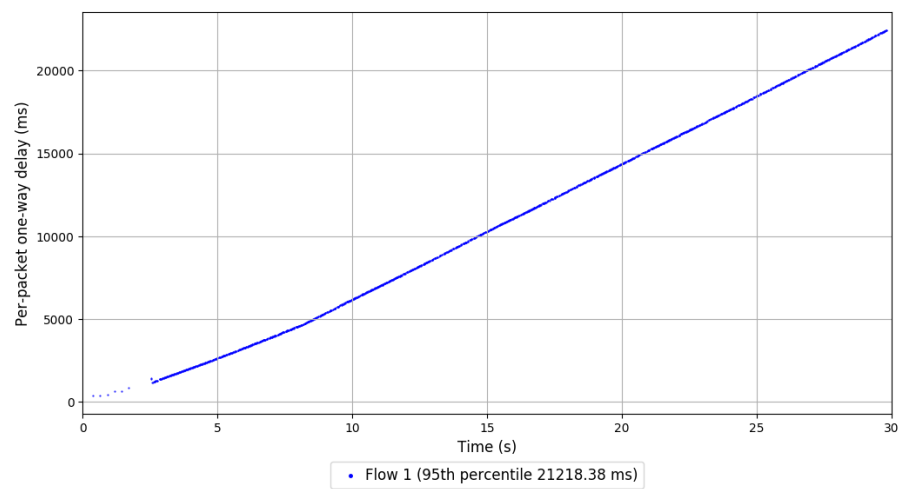
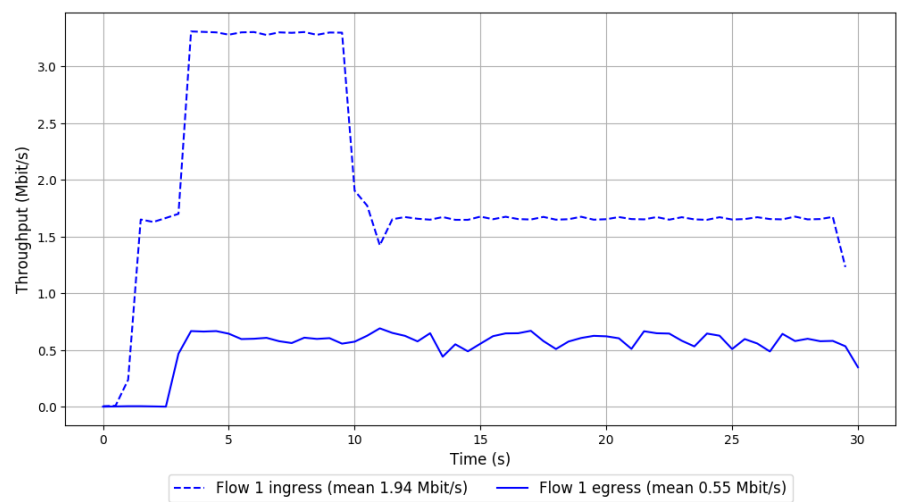
-- Flow 1:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 21218.376 ms

Loss rate: 72.03%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-01-19 04:25:10

End at: 2019-01-19 04:25:40

Local clock offset: -1.324 ms

Remote clock offset: 3.733 ms

Below is generated by plot.py at 2019-01-19 04:46:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 21036.618 ms

Loss rate: 72.19%

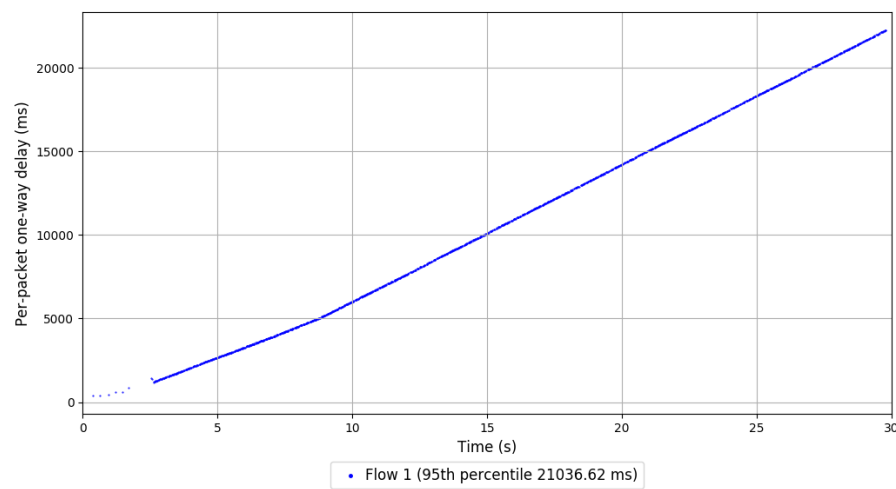
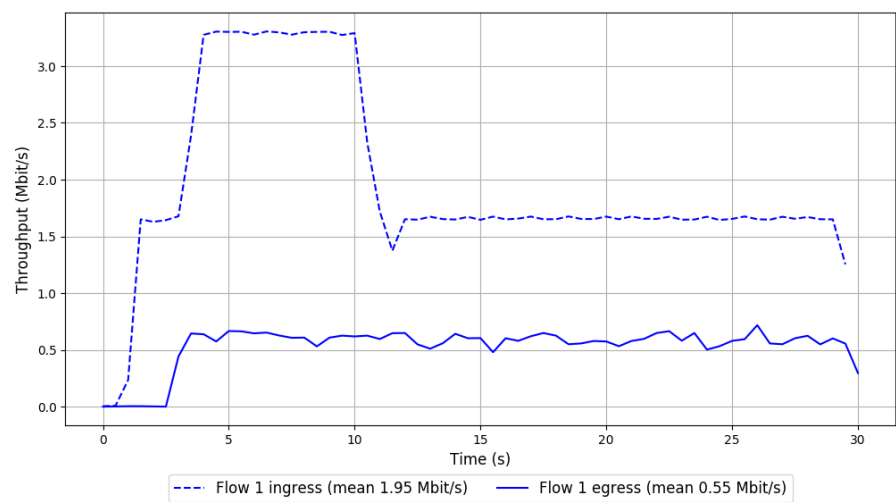
-- Flow 1:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 21036.618 ms

Loss rate: 72.19%

Run 3: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-01-19 03:55:32

End at: 2019-01-19 03:56:02

Local clock offset: -1.452 ms

Remote clock offset: 7.395 ms

Below is generated by plot.py at 2019-01-19 04:46:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 654.640 ms

Loss rate: 0.58%

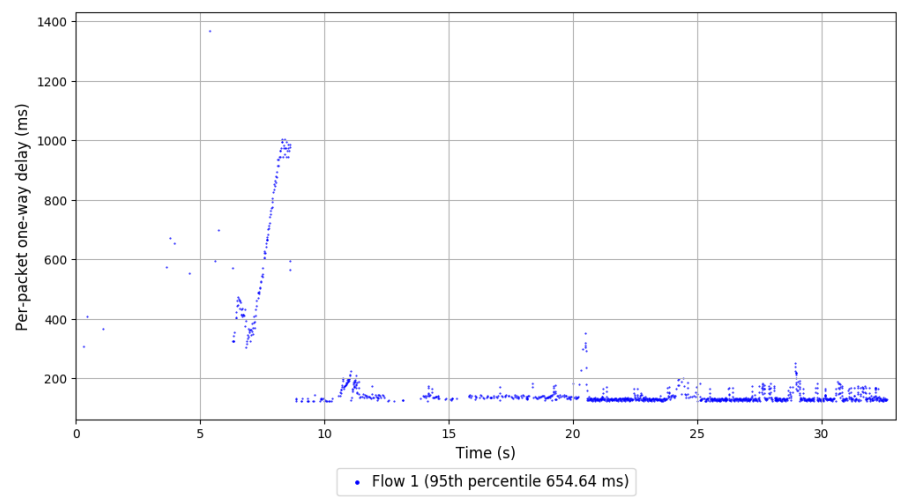
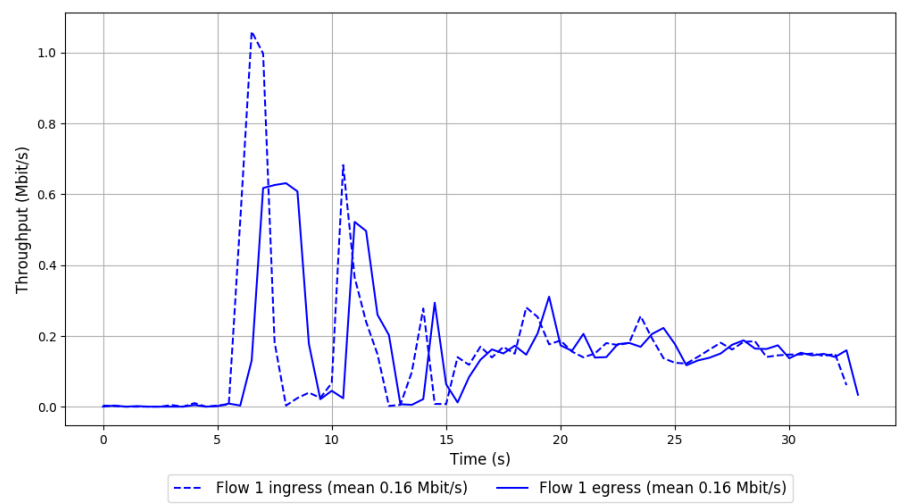
-- Flow 1:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 654.640 ms

Loss rate: 0.58%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-01-19 04:19:28

End at: 2019-01-19 04:19:58

Local clock offset: -1.814 ms

Remote clock offset: 3.689 ms

Below is generated by plot.py at 2019-01-19 04:46:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 593.754 ms

Loss rate: 0.63%

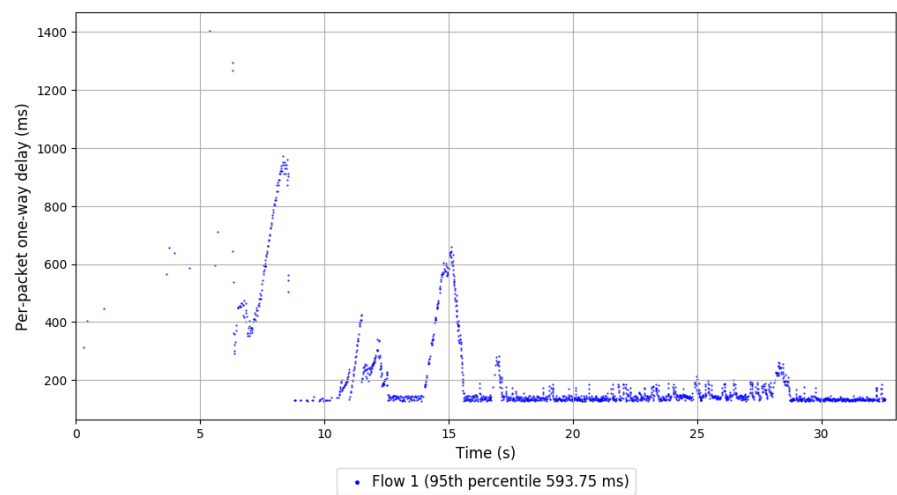
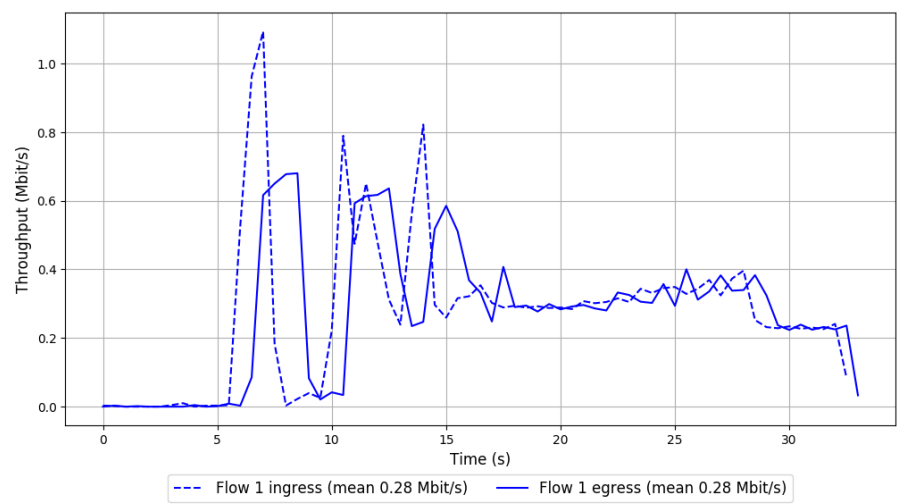
-- Flow 1:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 593.754 ms

Loss rate: 0.63%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-01-19 04:43:24

End at: 2019-01-19 04:43:54

Local clock offset: -1.395 ms

Remote clock offset: 2.558 ms

Below is generated by plot.py at 2019-01-19 04:46:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 410.642 ms

Loss rate: 3.34%

-- Flow 1:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 410.642 ms

Loss rate: 3.34%

Run 3: Report of WebRTC media — Data Link

