

Pantheon Report

Generated at 2019-08-26 17:35:48 (UTC).

Data path: AWS California 1 on *ens5 (local)* → Stanford cellular on *ppp0 (remote)*.

Repeated the test of 24 congestion control schemes 3 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:

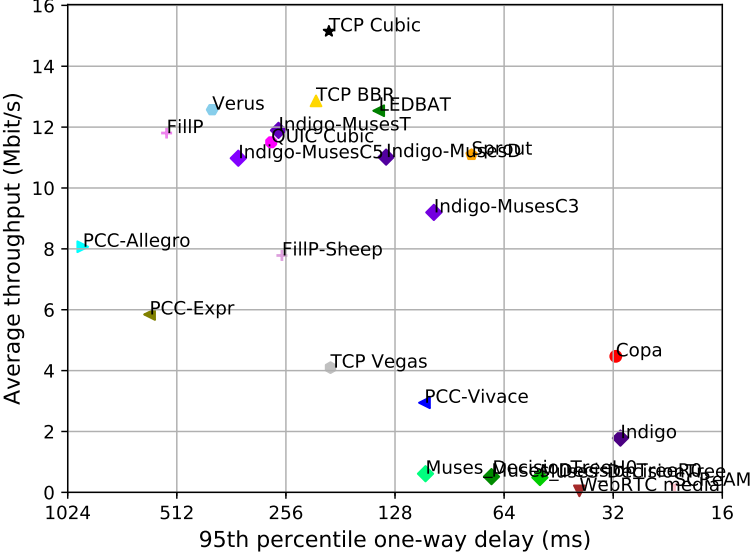
```
Linux 4.15.0-1043-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

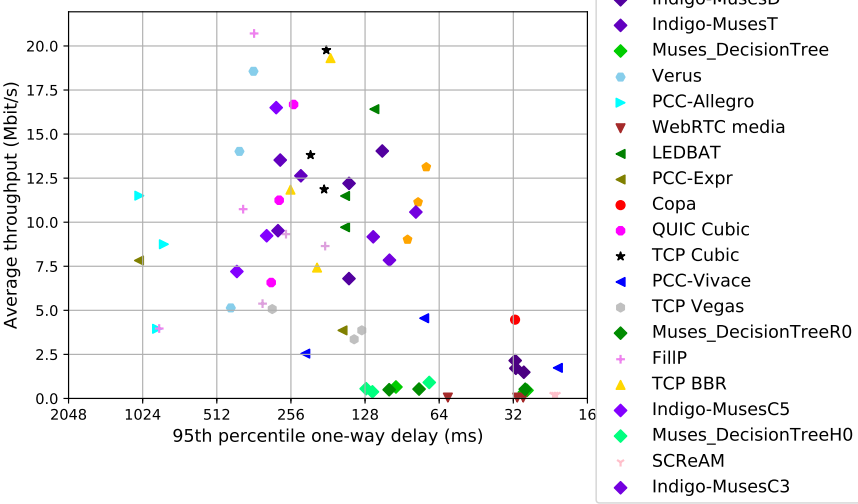
```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d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

```
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from AWS California 1 to Stanford cellular, 3 runs of 30s each per scheme
(mean of all runs by scheme)



test from AWS California 1 to Stanford cellular, 3 runs of 30s each per scheme



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	3	12.86	211.42	0.27
Copa	1	4.47	31.48	0.03
TCP Cubic	3	15.14	194.84	0.29
FillP	3	11.81	546.30	2.08
FillP-Sheep	3	7.78	262.57	1.83
Indigo	3	1.78	30.57	0.07
Indigo-MusesC3	3	9.20	100.01	0.12
Indigo-MusesC5	3	10.98	346.43	0.80
Indigo-MusesD	3	11.01	135.45	0.32
Indigo-MusesT	3	11.89	268.36	0.35
LEDBAT	3	12.54	142.00	0.28
Muses_DecisionTree	3	0.49	50.97	0.00
Muses_DecisionTreeH0	3	0.61	105.45	0.10
Muses_DecisionTreeR0	3	0.52	69.34	0.00
PCC-Allegro	3	8.07	930.28	10.29
PCC-Expr	2	5.84	608.93	15.77
QUIC Cubic	3	11.50	281.11	0.34
SCReAM	3	0.22	21.67	0.04
Sprout	3	11.10	78.73	0.03
TaoVA-100x	0	N/A	N/A	N/A
TCP Vegas	3	4.10	192.85	0.03
Verus	3	12.57	408.96	0.97
PCC-Vivace	3	2.94	106.19	0.22
WebRTC media	3	0.05	39.67	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-08-26 16:26:00

End at: 2019-08-26 16:26:30

Local clock offset: 1.626 ms

Remote clock offset: 1.08 ms

Below is generated by plot.py at 2019-08-26 17:34:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.43 Mbit/s

95th percentile per-packet one-way delay: 200.465 ms

Loss rate: 0.15%

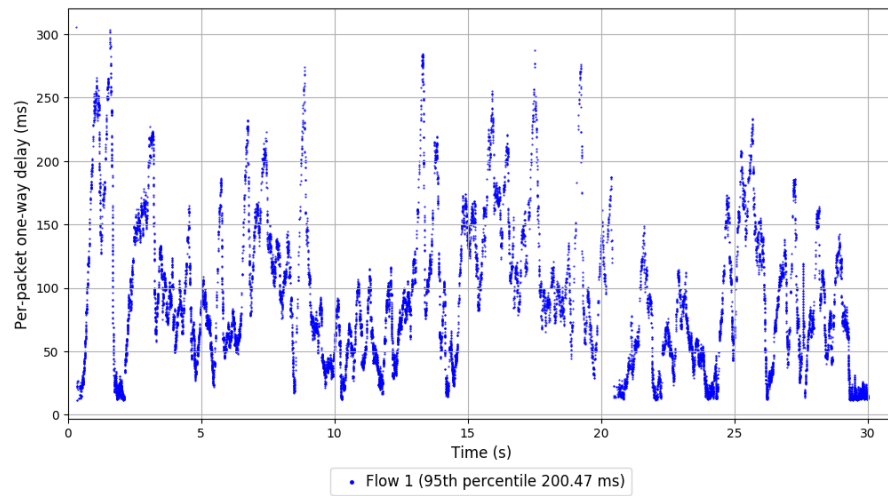
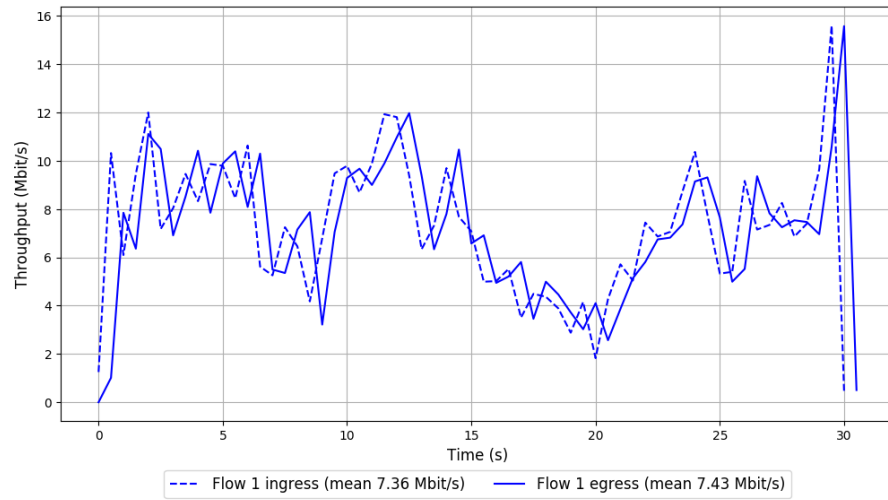
-- Flow 1:

Average throughput: 7.43 Mbit/s

95th percentile per-packet one-way delay: 200.465 ms

Loss rate: 0.15%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-08-26 16:55:31

End at: 2019-08-26 16:56:01

Local clock offset: -0.689 ms

Remote clock offset: 1.477 ms

Below is generated by plot.py at 2019-08-26 17:34:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.85 Mbit/s

95th percentile per-packet one-way delay: 257.054 ms

Loss rate: 0.39%

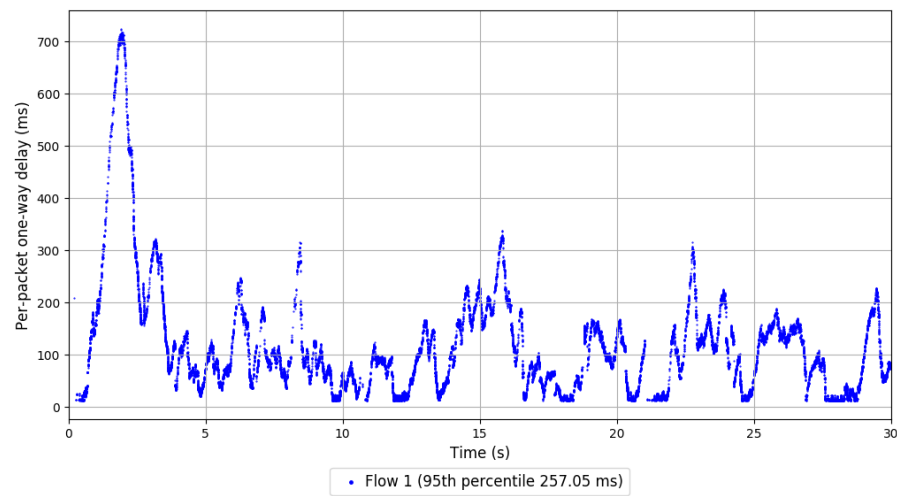
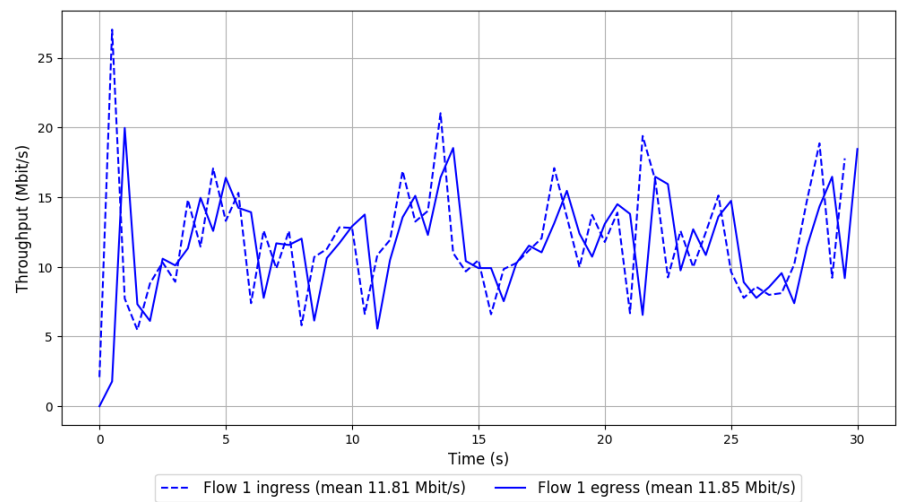
-- Flow 1:

Average throughput: 11.85 Mbit/s

95th percentile per-packet one-way delay: 257.054 ms

Loss rate: 0.39%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-08-26 17:25:01

End at: 2019-08-26 17:25:31

Local clock offset: -0.511 ms

Remote clock offset: 1.908 ms

Below is generated by plot.py at 2019-08-26 17:34:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.31 Mbit/s

95th percentile per-packet one-way delay: 176.747 ms

Loss rate: 0.27%

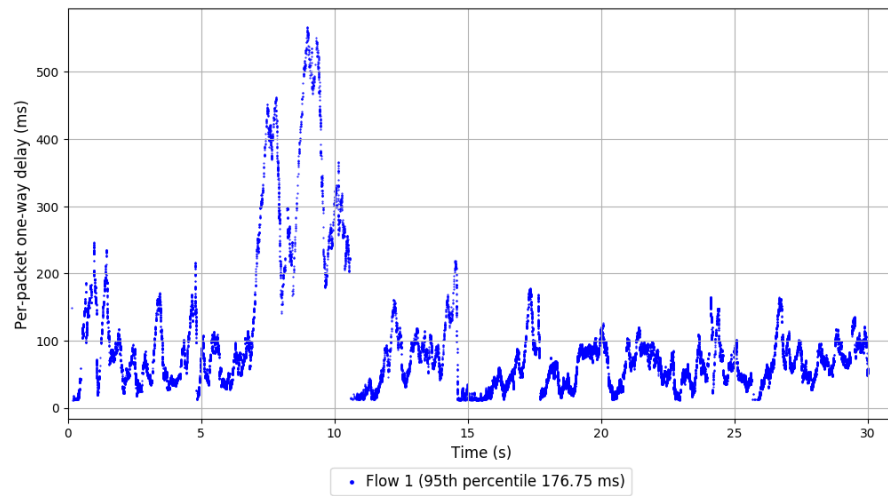
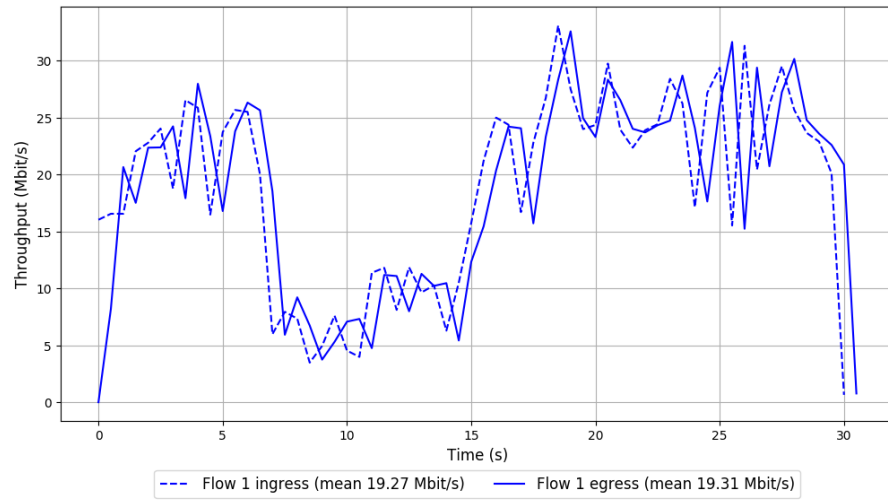
-- Flow 1:

Average throughput: 19.31 Mbit/s

95th percentile per-packet one-way delay: 176.747 ms

Loss rate: 0.27%

Run 3: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-08-26 16:18:38

End at: 2019-08-26 16:19:08

Local clock offset: -2.77 ms

Remote clock offset: 1.285 ms

Below is generated by plot.py at 2019-08-26 17:34:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.47 Mbit/s

95th percentile per-packet one-way delay: 31.479 ms

Loss rate: 0.03%

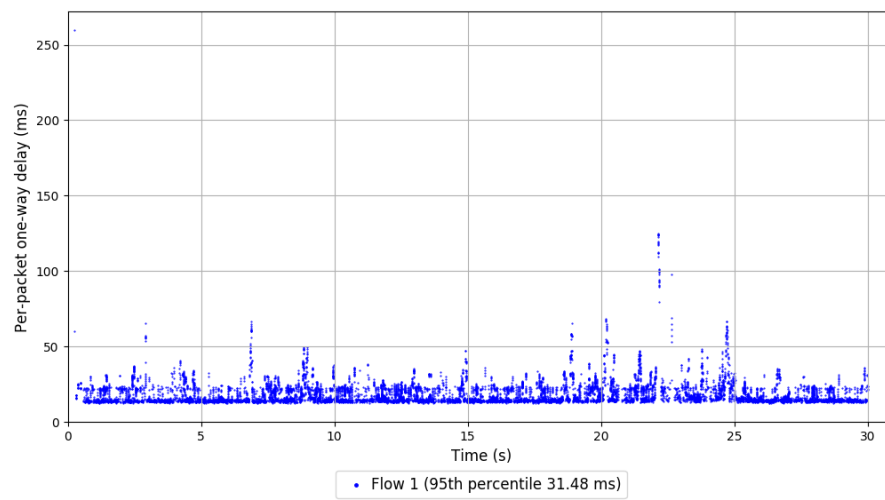
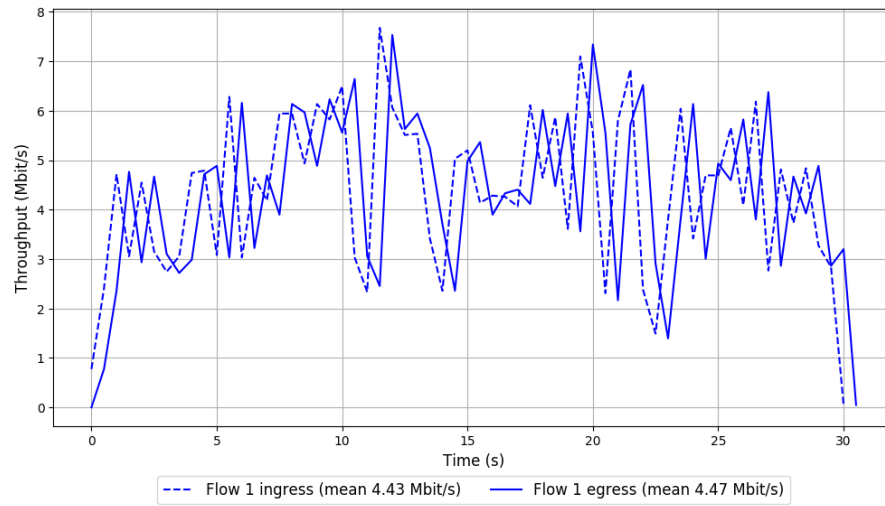
-- Flow 1:

Average throughput: 4.47 Mbit/s

95th percentile per-packet one-way delay: 31.479 ms

Loss rate: 0.03%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

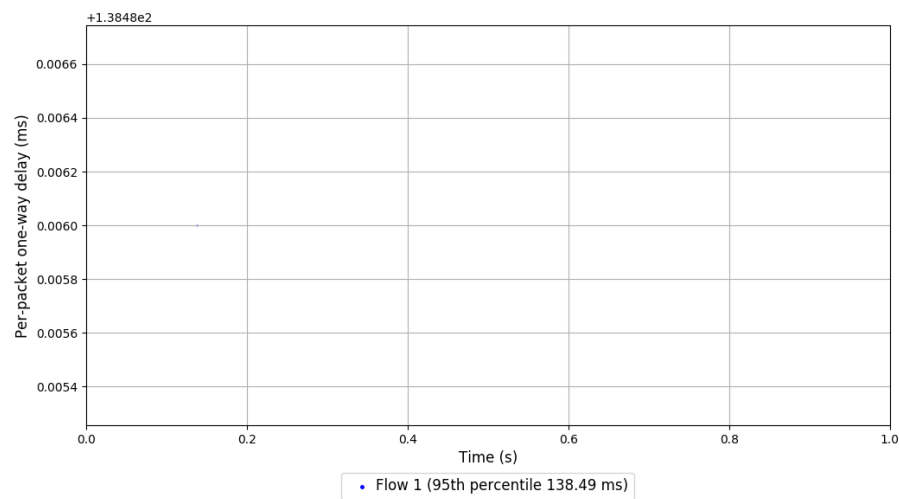
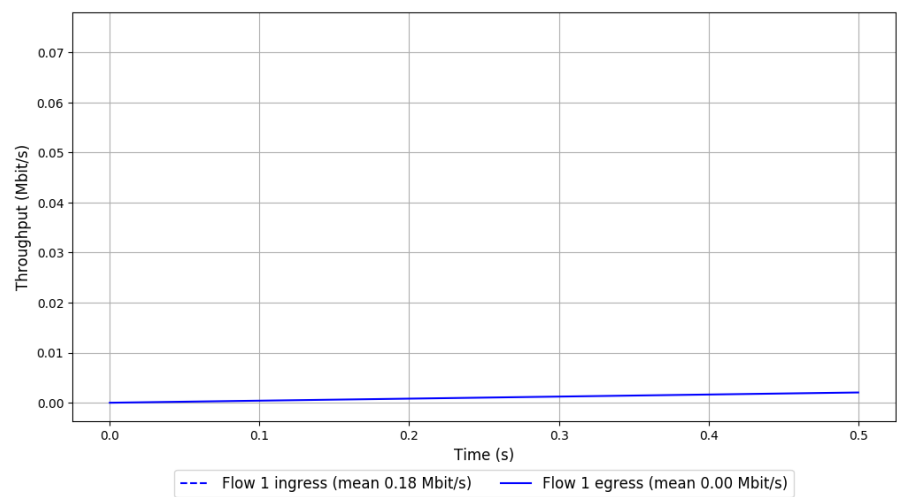
Start at: 2019-08-26 16:48:09

End at: 2019-08-26 16:48:39

Local clock offset: -2.72 ms

Remote clock offset: 1.318 ms

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

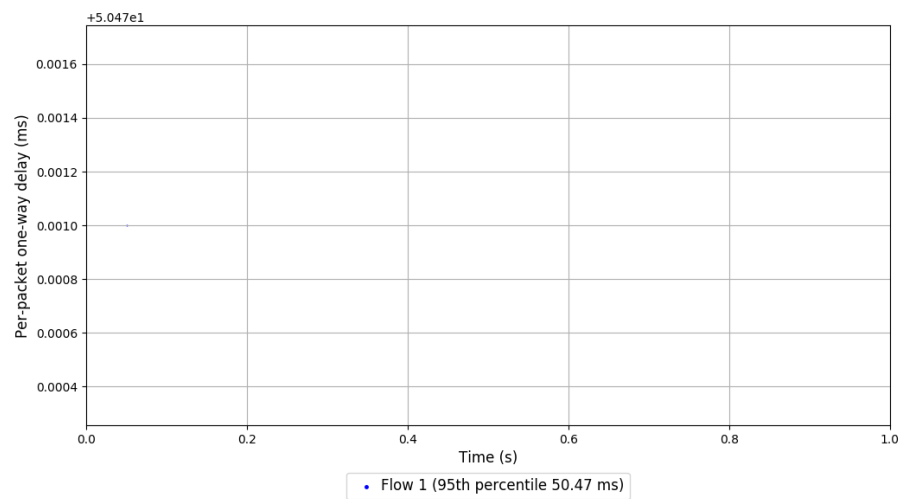
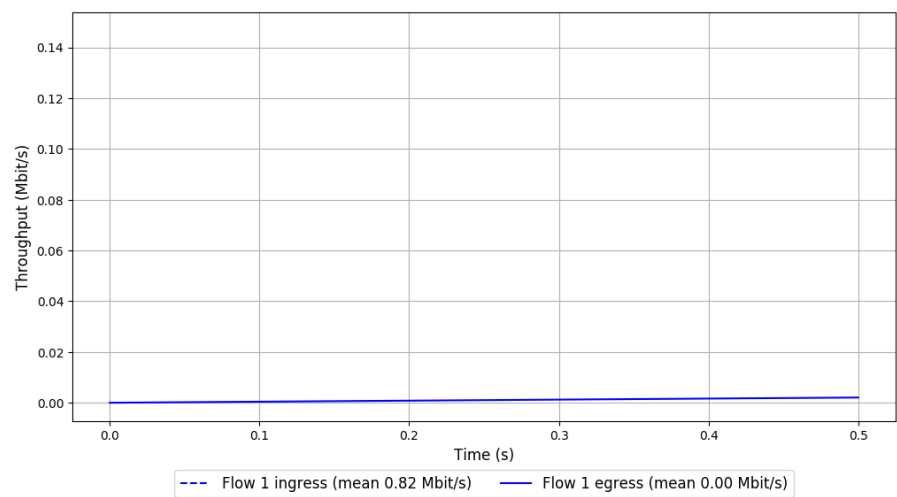
Start at: 2019-08-26 17:17:39

End at: 2019-08-26 17:18:09

Local clock offset: -0.286 ms

Remote clock offset: 1.738 ms

Run 3: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-08-26 16:22:19

End at: 2019-08-26 16:22:49

Local clock offset: 0.613 ms

Remote clock offset: 1.098 ms

Below is generated by plot.py at 2019-08-26 17:34:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.76 Mbit/s

95th percentile per-packet one-way delay: 183.828 ms

Loss rate: 0.32%

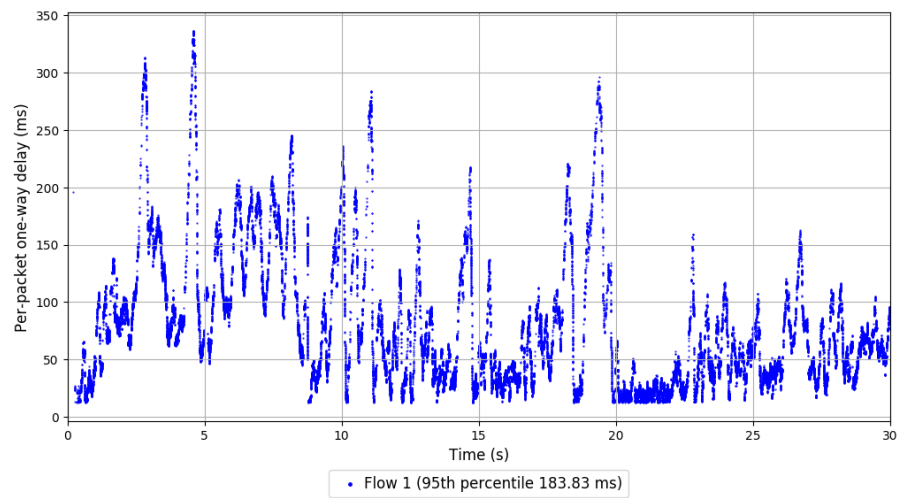
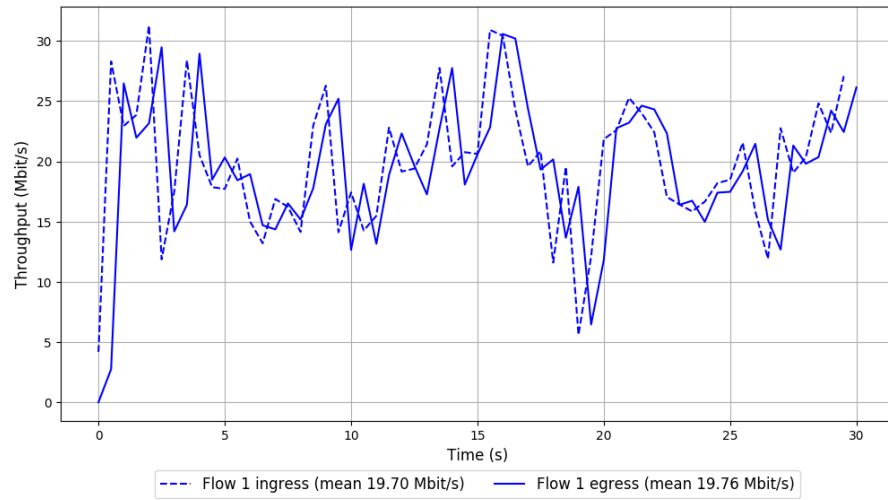
-- Flow 1:

Average throughput: 19.76 Mbit/s

95th percentile per-packet one-way delay: 183.828 ms

Loss rate: 0.32%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-08-26 16:51:50

End at: 2019-08-26 16:52:20

Local clock offset: -2.226 ms

Remote clock offset: 1.465 ms

Below is generated by plot.py at 2019-08-26 17:34:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.86 Mbit/s

95th percentile per-packet one-way delay: 187.620 ms

Loss rate: 0.26%

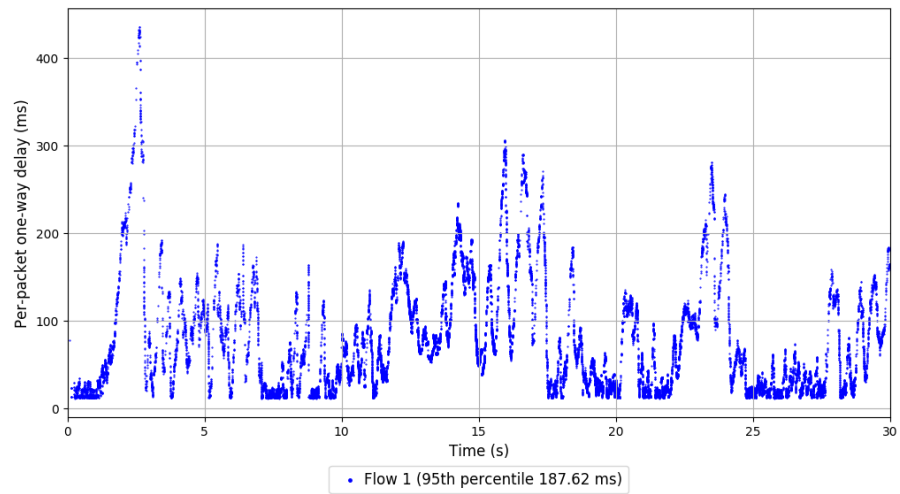
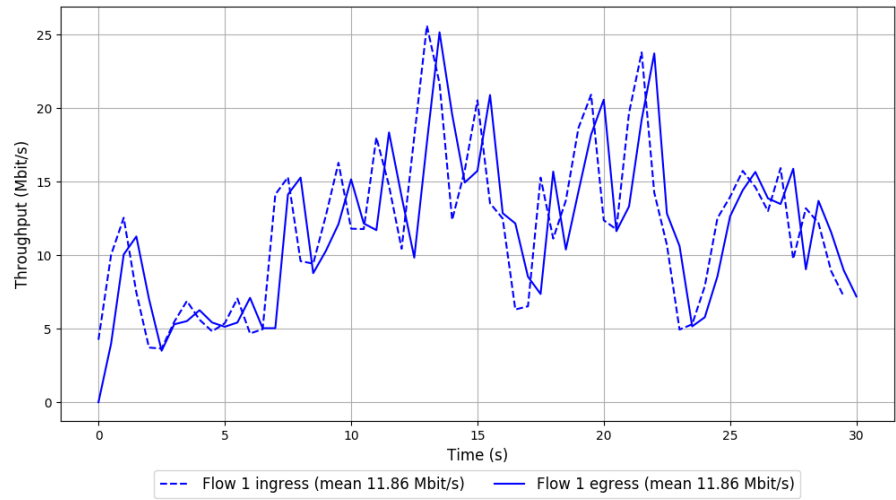
-- Flow 1:

Average throughput: 11.86 Mbit/s

95th percentile per-packet one-way delay: 187.620 ms

Loss rate: 0.26%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2019-08-26 17:21:20

End at: 2019-08-26 17:21:50

Local clock offset: -0.439 ms

Remote clock offset: 1.806 ms

Below is generated by plot.py at 2019-08-26 17:34:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.81 Mbit/s

95th percentile per-packet one-way delay: 213.077 ms

Loss rate: 0.29%

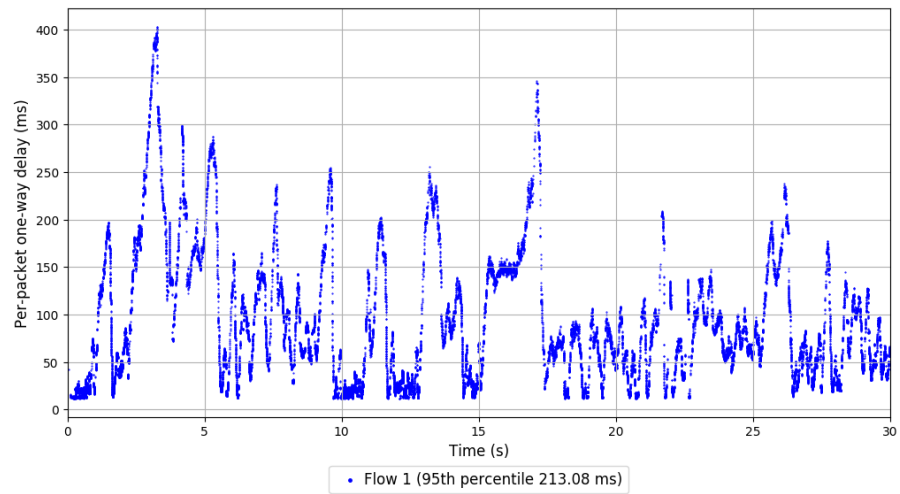
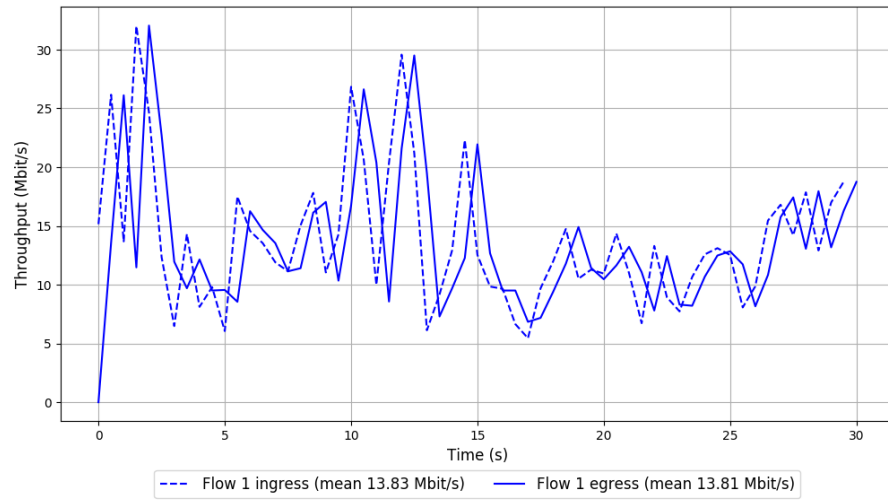
-- Flow 1:

Average throughput: 13.81 Mbit/s

95th percentile per-packet one-way delay: 213.077 ms

Loss rate: 0.29%

Run 3: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-08-26 16:07:34

End at: 2019-08-26 16:08:04

Local clock offset: -5.742 ms

Remote clock offset: 1.88 ms

Below is generated by plot.py at 2019-08-26 17:34:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.71 Mbit/s

95th percentile per-packet one-way delay: 361.273 ms

Loss rate: 0.56%

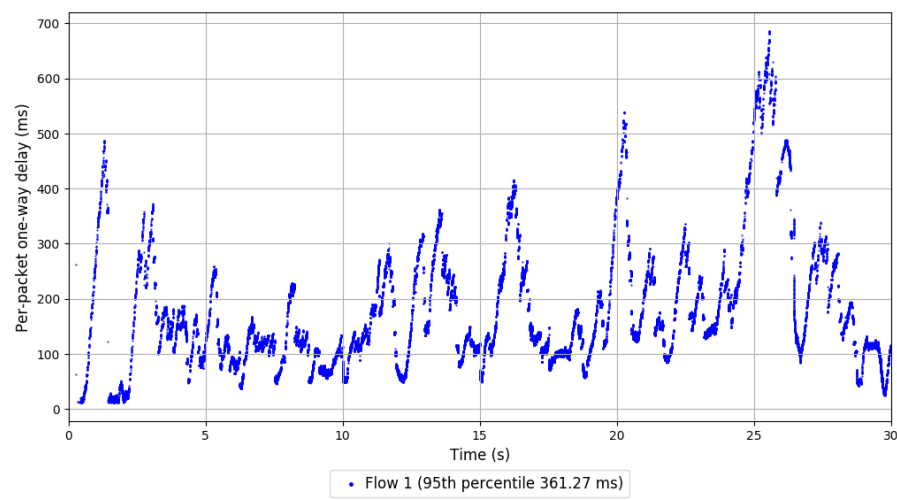
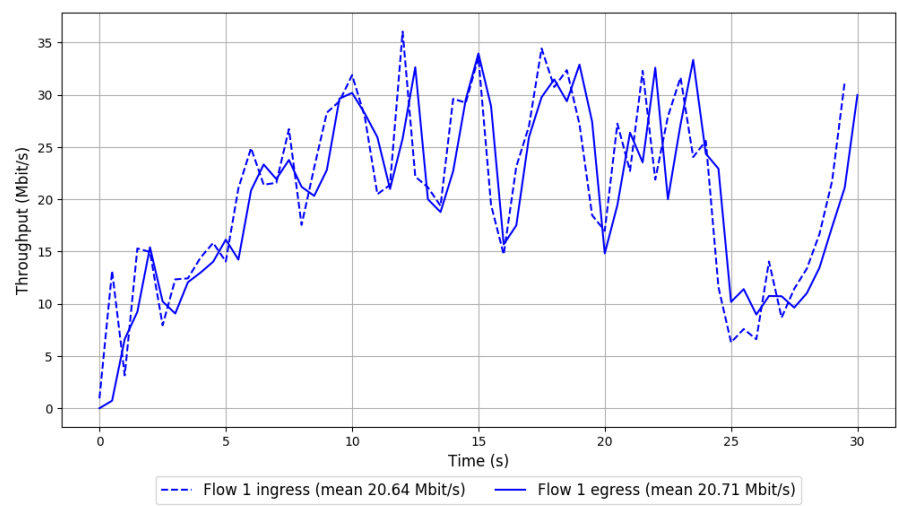
-- Flow 1:

Average throughput: 20.71 Mbit/s

95th percentile per-packet one-way delay: 361.273 ms

Loss rate: 0.56%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-08-26 16:37:07

End at: 2019-08-26 16:37:37

Local clock offset: -0.843 ms

Remote clock offset: 0.808 ms

Below is generated by plot.py at 2019-08-26 17:34:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.74 Mbit/s

95th percentile per-packet one-way delay: 400.207 ms

Loss rate: 0.55%

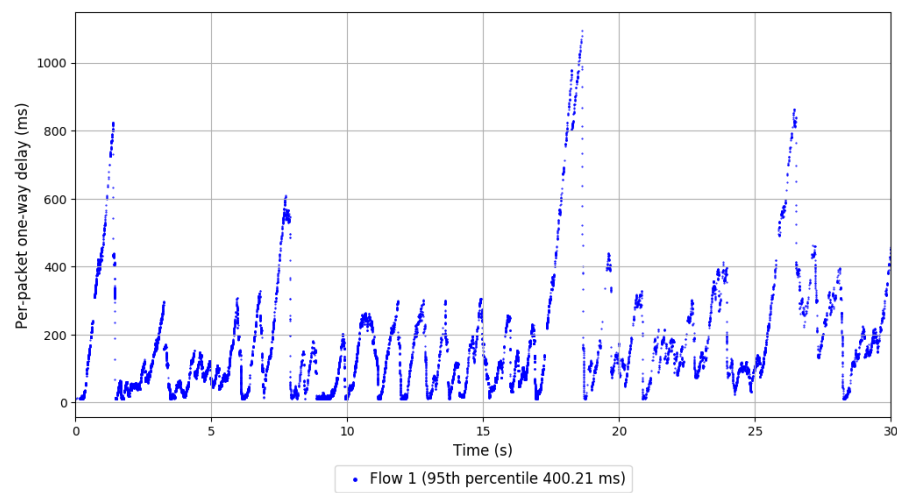
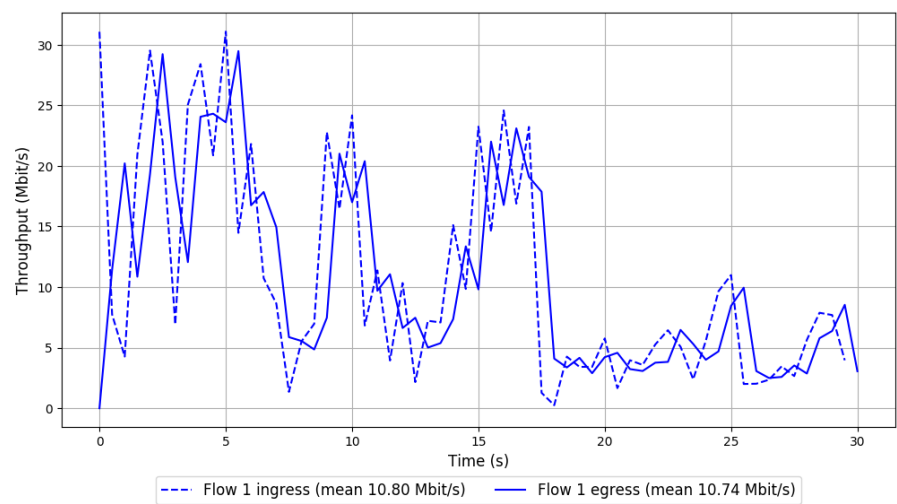
-- Flow 1:

Average throughput: 10.74 Mbit/s

95th percentile per-packet one-way delay: 400.207 ms

Loss rate: 0.55%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-08-26 17:06:32

End at: 2019-08-26 17:07:02

Local clock offset: 0.302 ms

Remote clock offset: 1.473 ms

Below is generated by plot.py at 2019-08-26 17:34:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.97 Mbit/s

95th percentile per-packet one-way delay: 877.431 ms

Loss rate: 5.12%

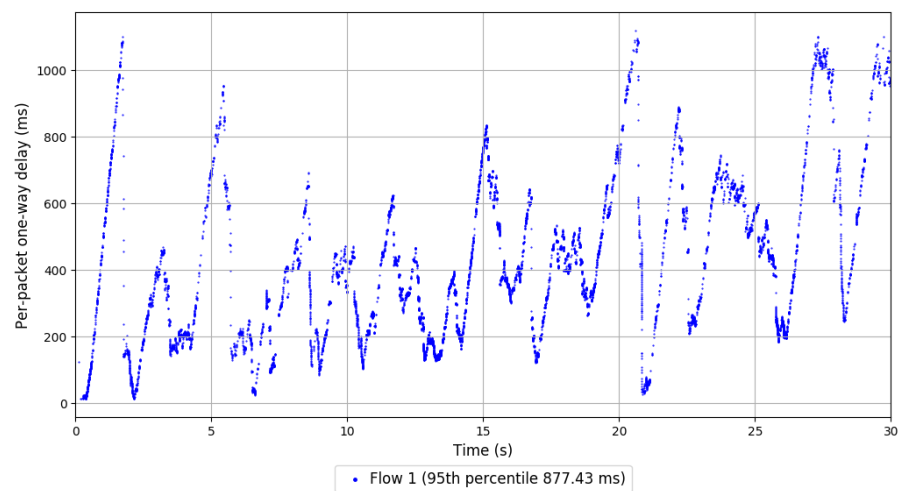
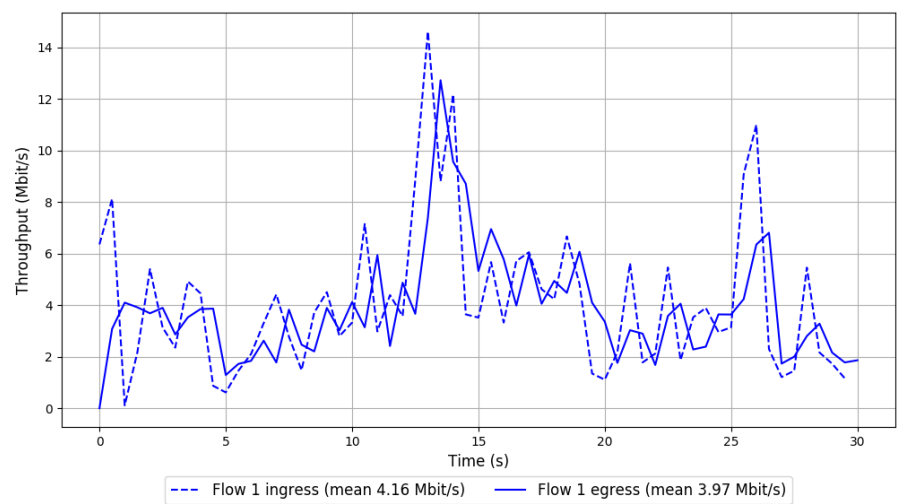
-- Flow 1:

Average throughput: 3.97 Mbit/s

95th percentile per-packet one-way delay: 877.431 ms

Loss rate: 5.12%

Run 3: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-08-26 16:21:05

End at: 2019-08-26 16:21:35

Local clock offset: -0.368 ms

Remote clock offset: 1.172 ms

Below is generated by plot.py at 2019-08-26 17:34:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.65 Mbit/s

95th percentile per-packet one-way delay: 185.878 ms

Loss rate: 0.13%

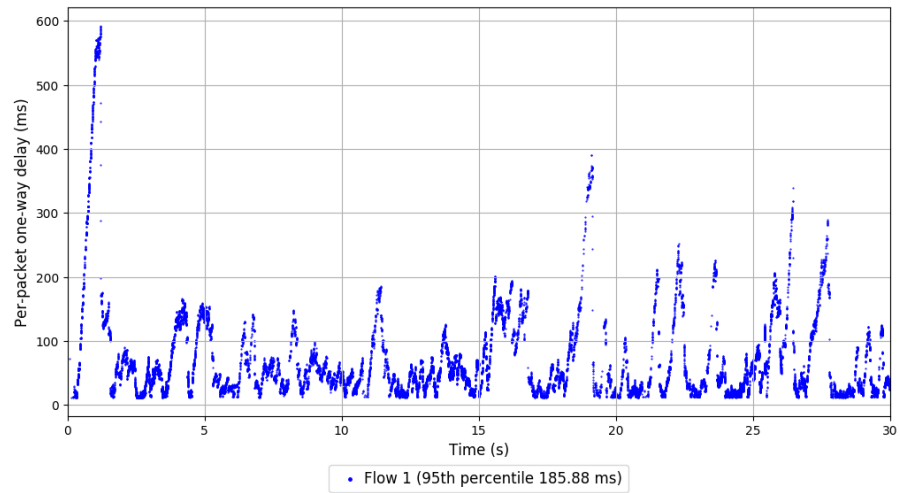
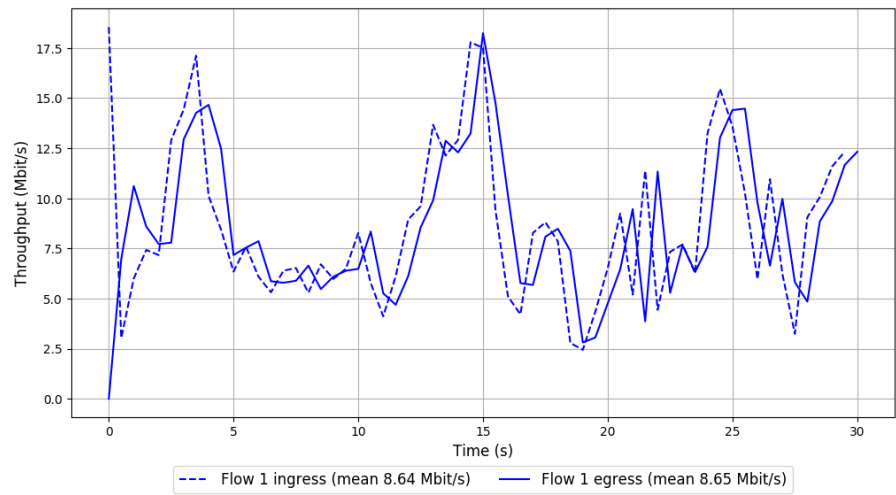
-- Flow 1:

Average throughput: 8.65 Mbit/s

95th percentile per-packet one-way delay: 185.878 ms

Loss rate: 0.13%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-08-26 16:50:36

End at: 2019-08-26 16:51:06

Local clock offset: -2.33 ms

Remote clock offset: 1.371 ms

Below is generated by plot.py at 2019-08-26 17:34:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.38 Mbit/s

95th percentile per-packet one-way delay: 333.775 ms

Loss rate: 4.69%

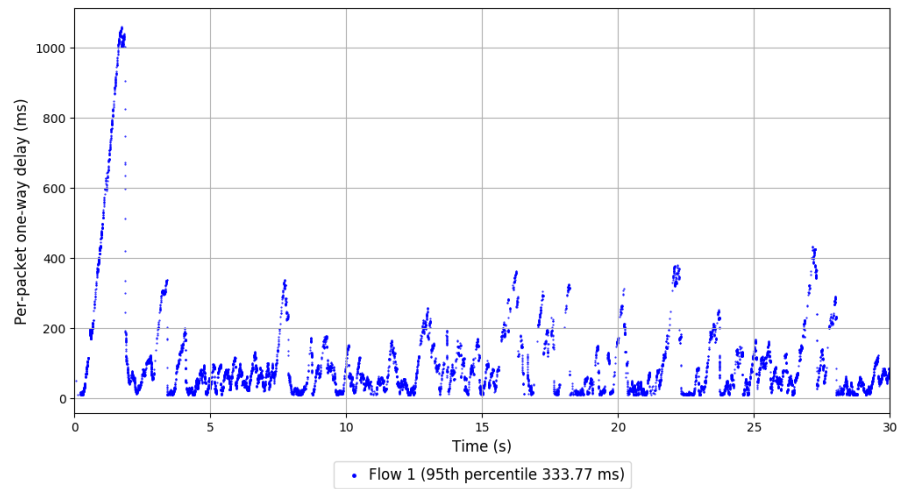
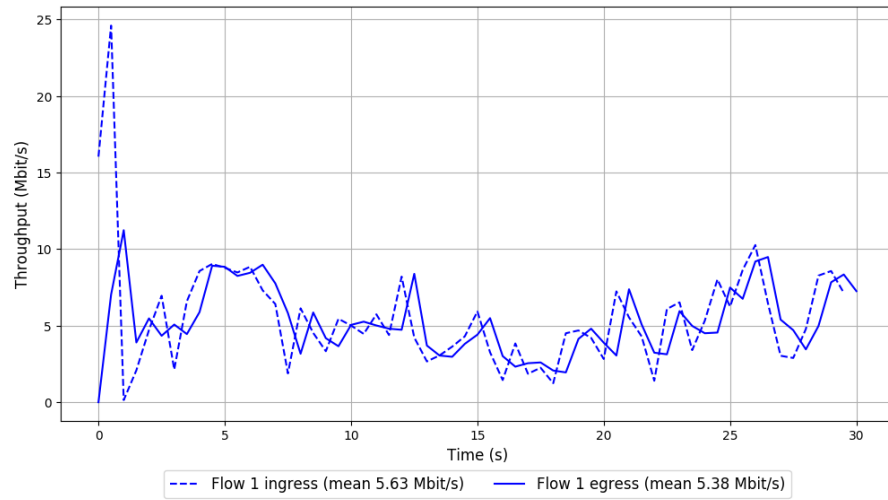
-- Flow 1:

Average throughput: 5.38 Mbit/s

95th percentile per-packet one-way delay: 333.775 ms

Loss rate: 4.69%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-08-26 17:20:06

End at: 2019-08-26 17:20:36

Local clock offset: -0.412 ms

Remote clock offset: 1.777 ms

Below is generated by plot.py at 2019-08-26 17:34:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.32 Mbit/s

95th percentile per-packet one-way delay: 268.061 ms

Loss rate: 0.66%

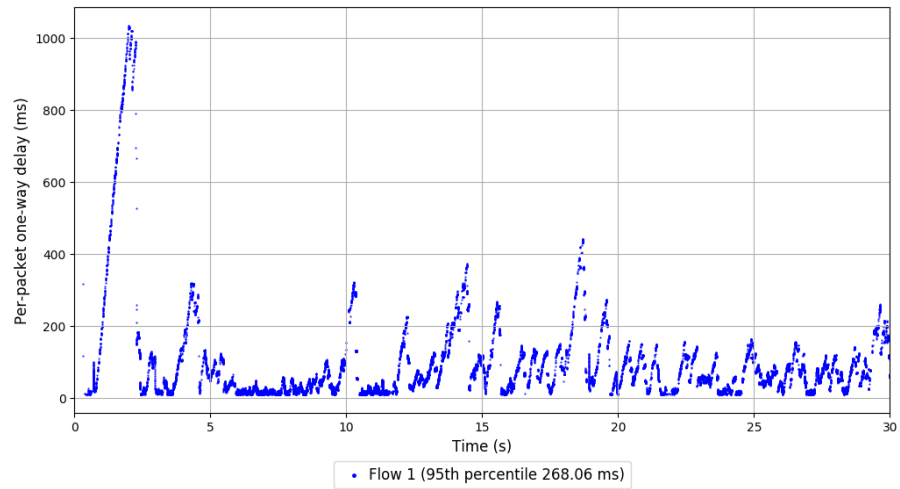
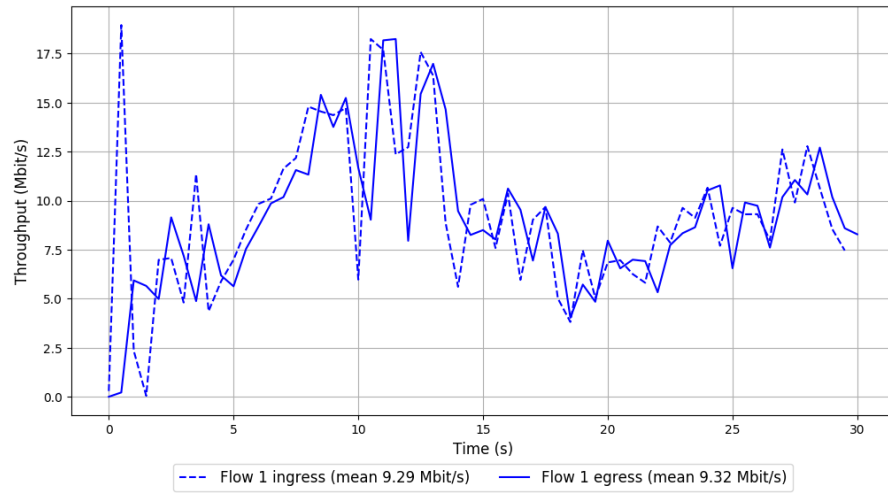
-- Flow 1:

Average throughput: 9.32 Mbit/s

95th percentile per-packet one-way delay: 268.061 ms

Loss rate: 0.66%

Run 3: Report of FillP-Sheep — Data Link

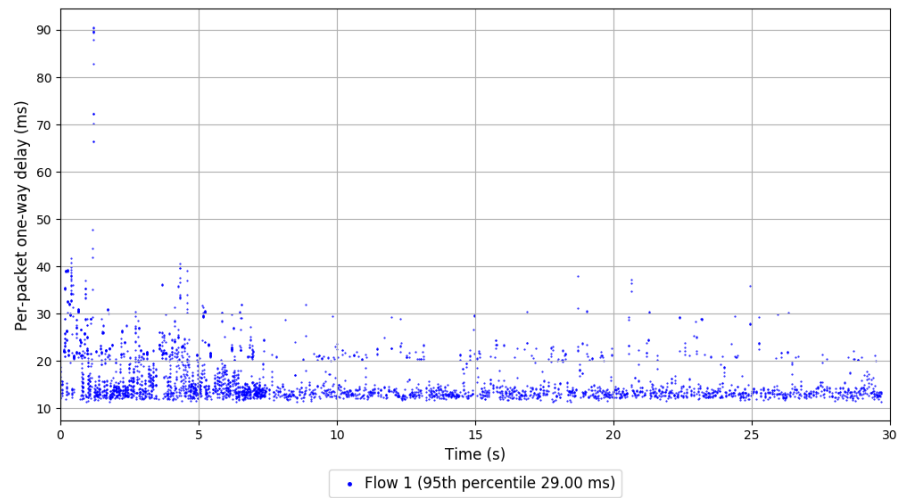
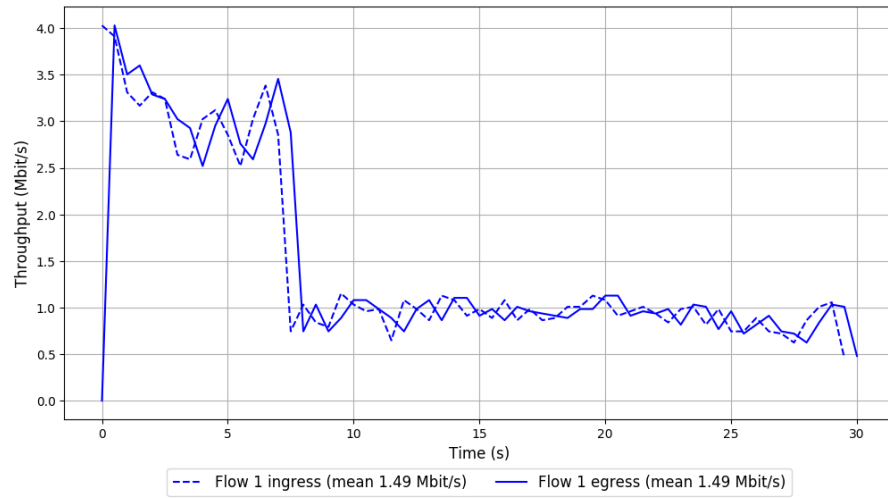


```
Run 1: Statistics of Indigo

Start at: 2019-08-26 16:28:27
End at: 2019-08-26 16:28:57
Local clock offset: 1.711 ms
Remote clock offset: 1.01 ms

# Below is generated by plot.py at 2019-08-26 17:34:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.49 Mbit/s
95th percentile per-packet one-way delay: 29.004 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 1.49 Mbit/s
95th percentile per-packet one-way delay: 29.004 ms
Loss rate: 0.03%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-08-26 16:57:58

End at: 2019-08-26 16:58:28

Local clock offset: -0.051 ms

Remote clock offset: 1.393 ms

Below is generated by plot.py at 2019-08-26 17:34:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 31.258 ms

Loss rate: 0.07%

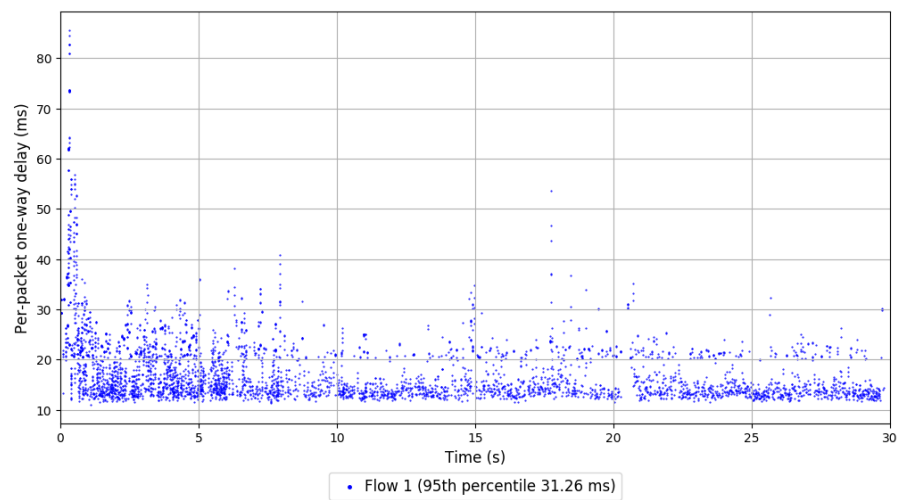
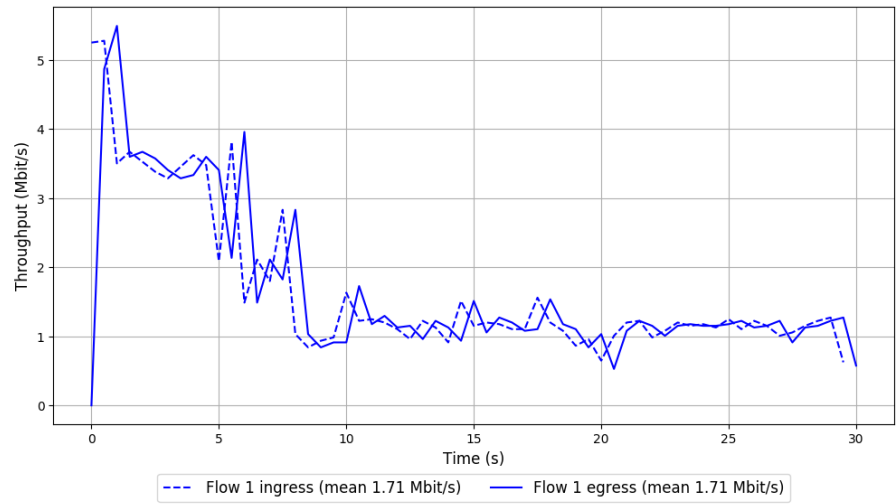
-- Flow 1:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 31.258 ms

Loss rate: 0.07%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-08-26 17:27:28

End at: 2019-08-26 17:27:58

Local clock offset: -0.571 ms

Remote clock offset: 1.907 ms

Below is generated by plot.py at 2019-08-26 17:34:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 31.441 ms

Loss rate: 0.11%

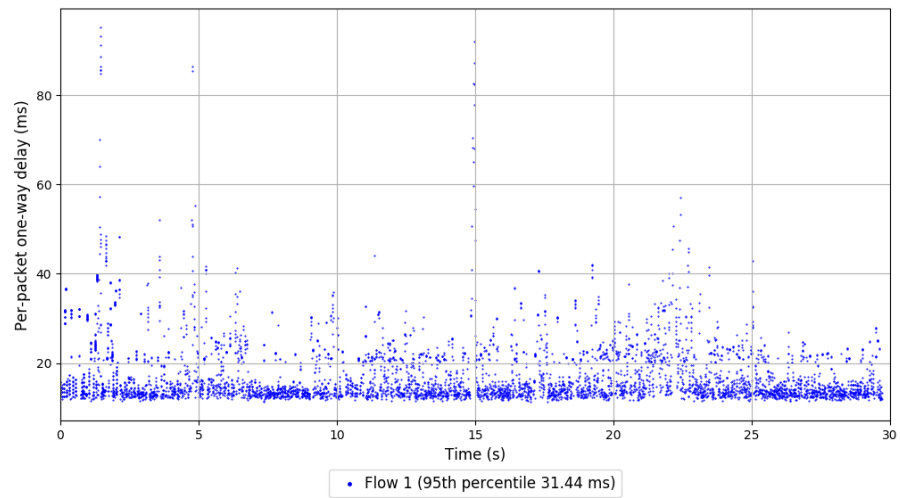
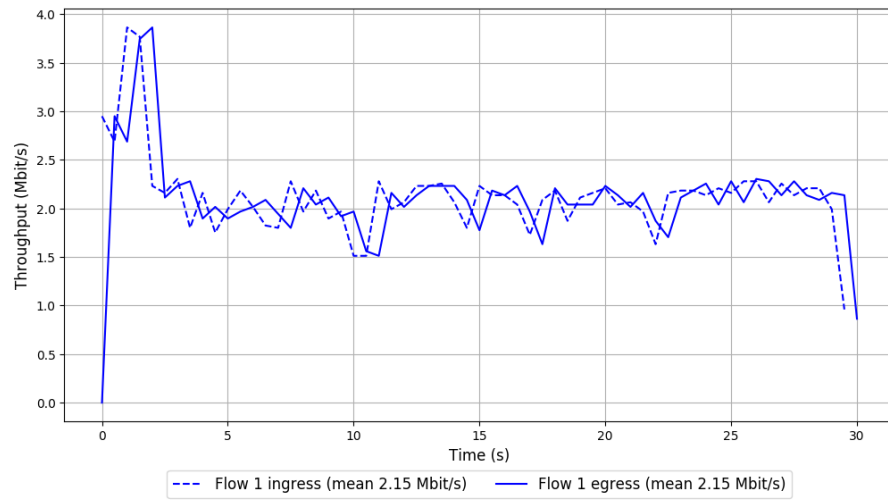
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 31.441 ms

Loss rate: 0.11%

Run 3: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-08-26 16:19:51

End at: 2019-08-26 16:20:21

Local clock offset: -1.722 ms

Remote clock offset: 1.177 ms

Below is generated by plot.py at 2019-08-26 17:34:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.58 Mbit/s

95th percentile per-packet one-way delay: 79.585 ms

Loss rate: 0.09%

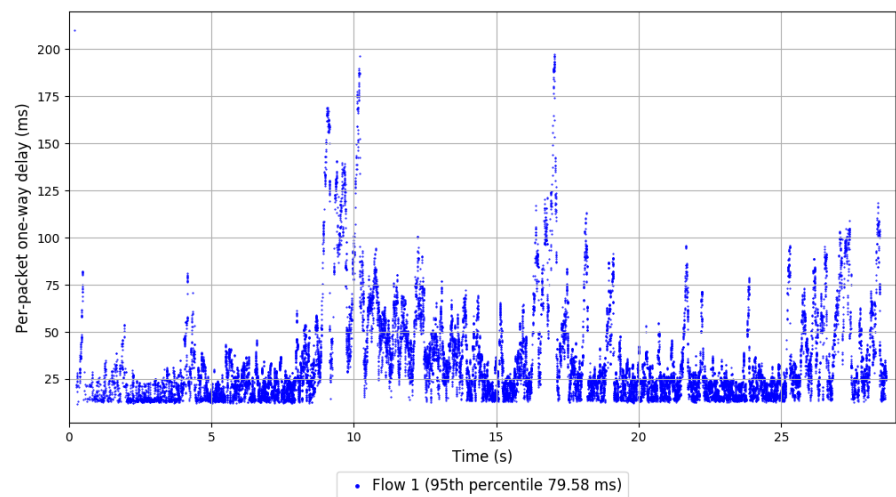
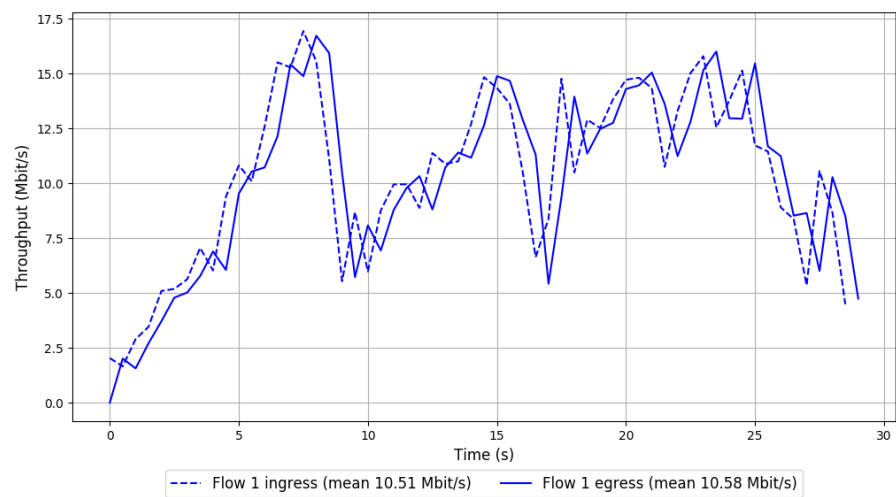
-- Flow 1:

Average throughput: 10.58 Mbit/s

95th percentile per-packet one-way delay: 79.585 ms

Loss rate: 0.09%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-08-26 16:49:23

End at: 2019-08-26 16:49:53

Local clock offset: -2.498 ms

Remote clock offset: 1.401 ms

Below is generated by plot.py at 2019-08-26 17:34:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 101.872 ms

Loss rate: 0.12%

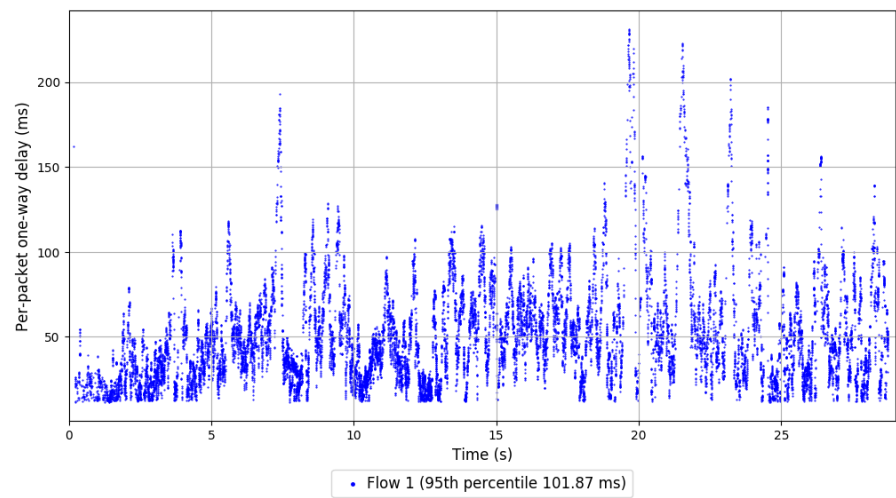
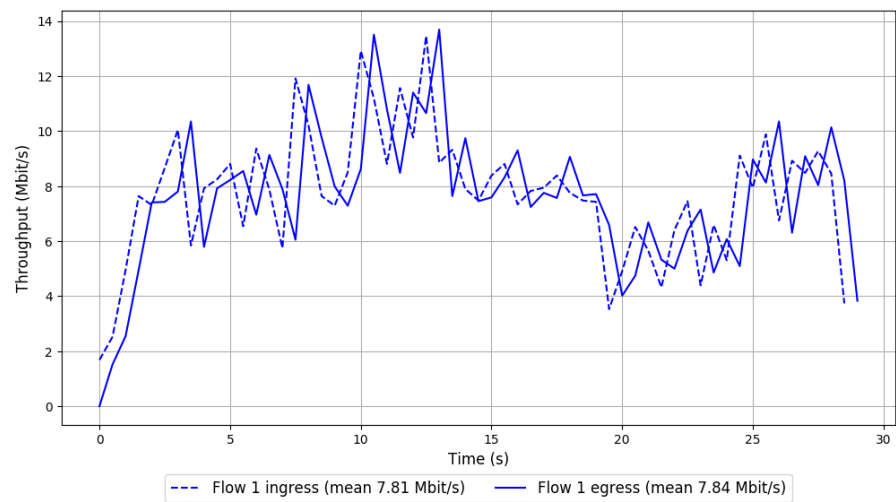
-- Flow 1:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 101.872 ms

Loss rate: 0.12%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-08-26 17:18:53

End at: 2019-08-26 17:19:23

Local clock offset: -0.35 ms

Remote clock offset: 1.751 ms

Below is generated by plot.py at 2019-08-26 17:34:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.17 Mbit/s

95th percentile per-packet one-way delay: 118.580 ms

Loss rate: 0.14%

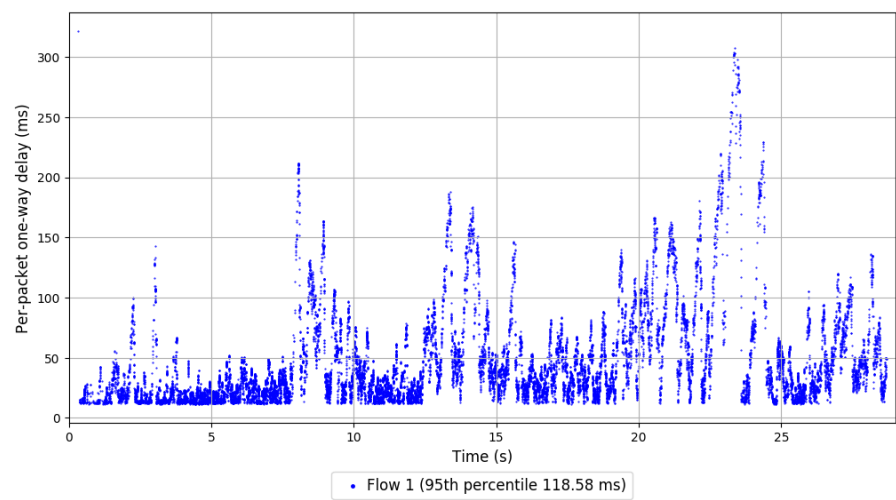
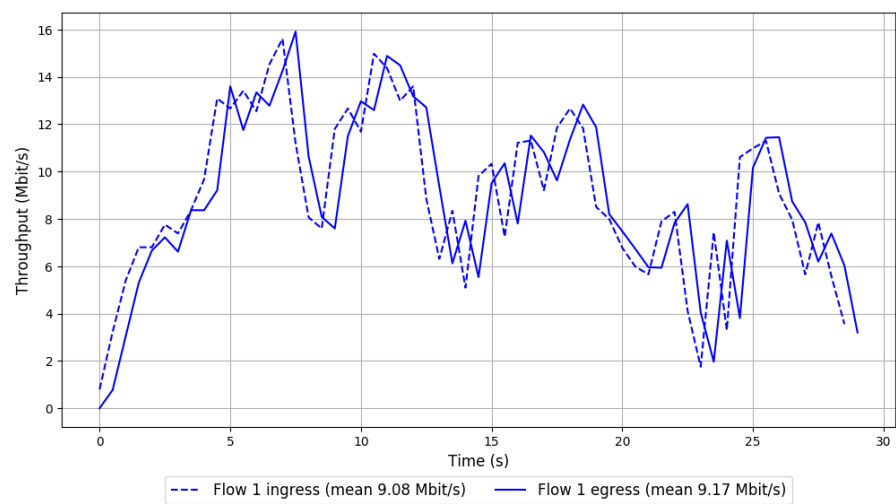
-- Flow 1:

Average throughput: 9.17 Mbit/s

95th percentile per-packet one-way delay: 118.580 ms

Loss rate: 0.14%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-08-26 16:16:10

End at: 2019-08-26 16:16:40

Local clock offset: -5.227 ms

Remote clock offset: 1.392 ms

Below is generated by plot.py at 2019-08-26 17:34:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.50 Mbit/s

95th percentile per-packet one-way delay: 293.754 ms

Loss rate: 0.69%

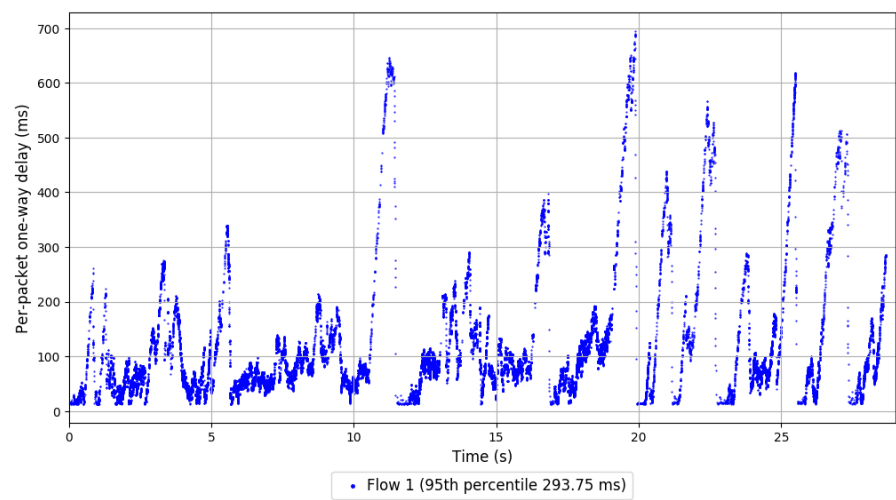
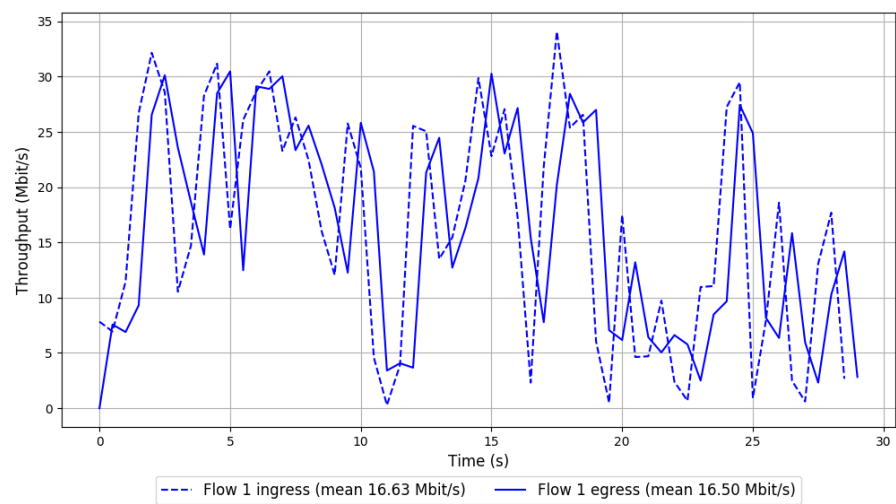
-- Flow 1:

Average throughput: 16.50 Mbit/s

95th percentile per-packet one-way delay: 293.754 ms

Loss rate: 0.69%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-08-26 16:45:42

End at: 2019-08-26 16:46:12

Local clock offset: -2.752 ms

Remote clock offset: 1.319 ms

Below is generated by plot.py at 2019-08-26 17:34:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.23 Mbit/s

95th percentile per-packet one-way delay: 321.168 ms

Loss rate: 0.79%

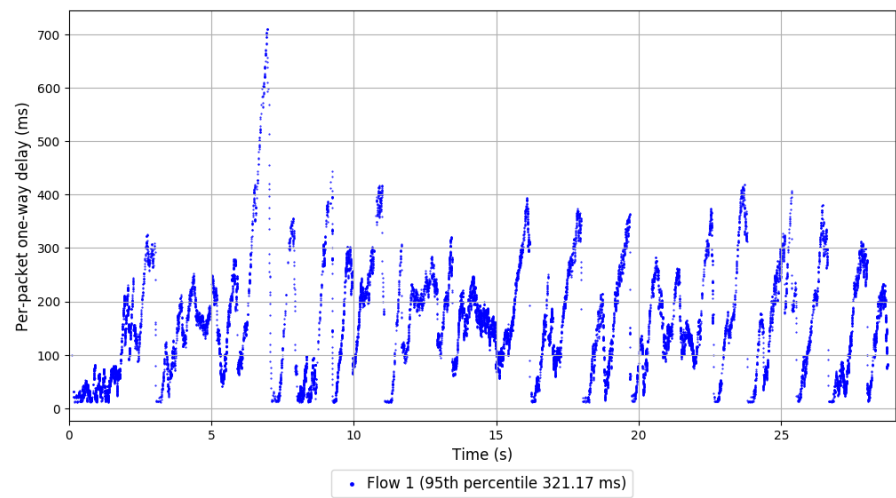
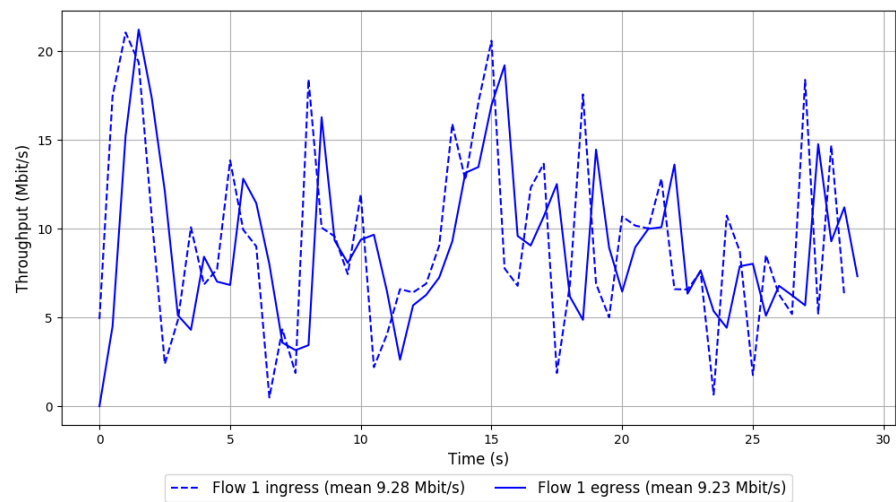
-- Flow 1:

Average throughput: 9.23 Mbit/s

95th percentile per-packet one-way delay: 321.168 ms

Loss rate: 0.79%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-08-26 17:15:12

End at: 2019-08-26 17:15:42

Local clock offset: -0.24 ms

Remote clock offset: 1.636 ms

Below is generated by plot.py at 2019-08-26 17:34:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.20 Mbit/s

95th percentile per-packet one-way delay: 424.367 ms

Loss rate: 0.93%

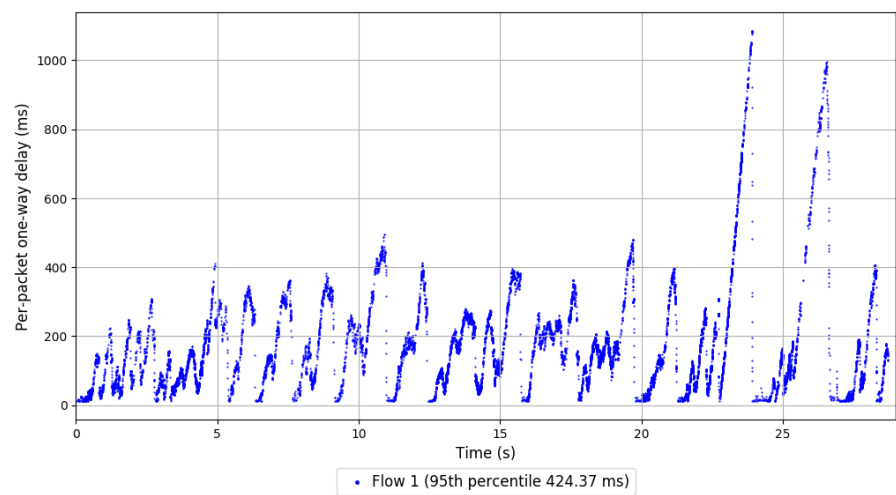
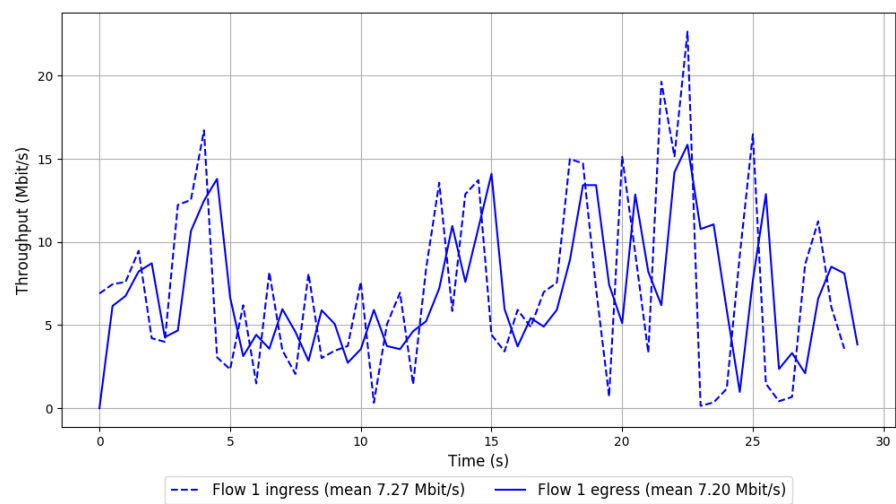
-- Flow 1:

Average throughput: 7.20 Mbit/s

95th percentile per-packet one-way delay: 424.367 ms

Loss rate: 0.93%

Run 3: Report of Indigo-MusesC5 — Data Link

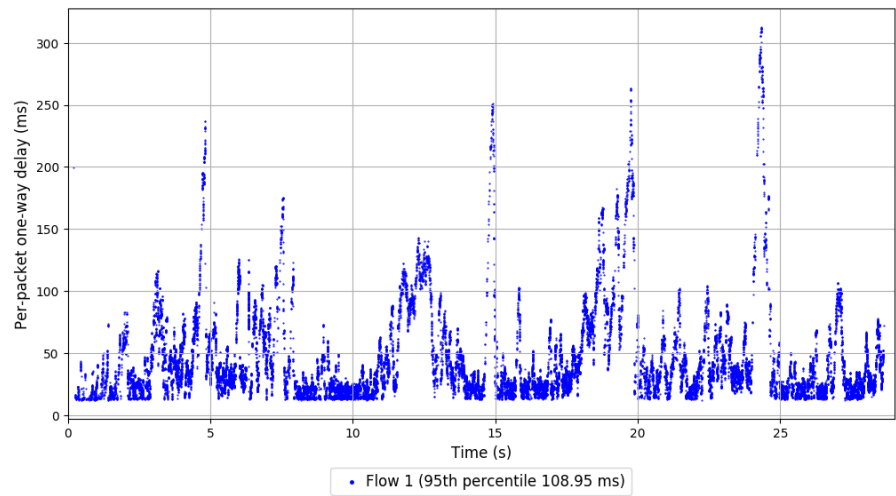
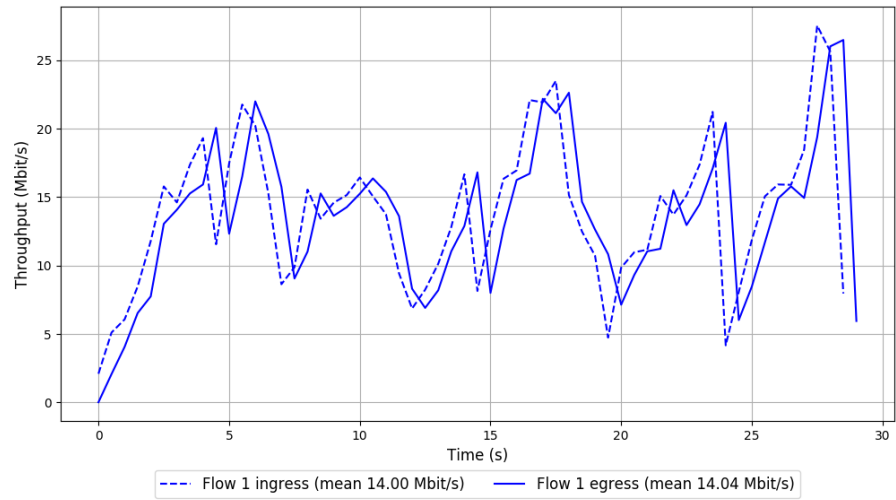


```
Run 1: Statistics of Indigo-MusesD

Start at: 2019-08-26 16:14:56
End at: 2019-08-26 16:15:26
Local clock offset: -6.305 ms
Remote clock offset: 1.39 ms

# Below is generated by plot.py at 2019-08-26 17:35:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 14.04 Mbit/s
95th percentile per-packet one-way delay: 108.955 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 14.04 Mbit/s
95th percentile per-packet one-way delay: 108.955 ms
Loss rate: 0.47%
```

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-08-26 16:44:28

End at: 2019-08-26 16:44:58

Local clock offset: -2.477 ms

Remote clock offset: 1.18 ms

Below is generated by plot.py at 2019-08-26 17:35:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.20 Mbit/s

95th percentile per-packet one-way delay: 148.654 ms

Loss rate: 0.16%

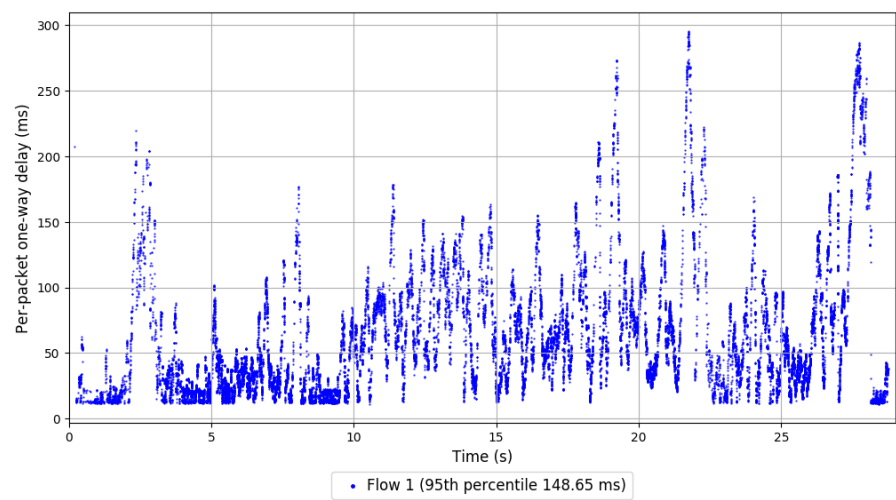
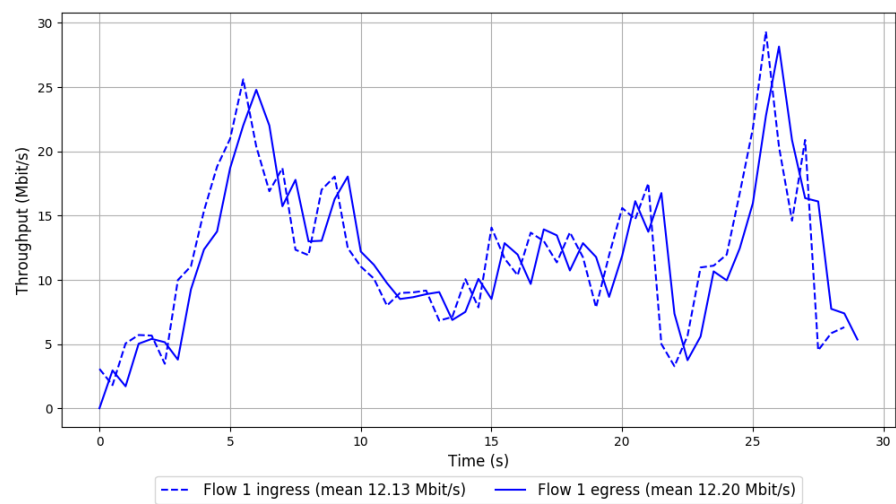
-- Flow 1:

Average throughput: 12.20 Mbit/s

95th percentile per-packet one-way delay: 148.654 ms

Loss rate: 0.16%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-08-26 17:13:59

End at: 2019-08-26 17:14:29

Local clock offset: -0.148 ms

Remote clock offset: 1.473 ms

Below is generated by plot.py at 2019-08-26 17:35:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.80 Mbit/s

95th percentile per-packet one-way delay: 148.755 ms

Loss rate: 0.32%

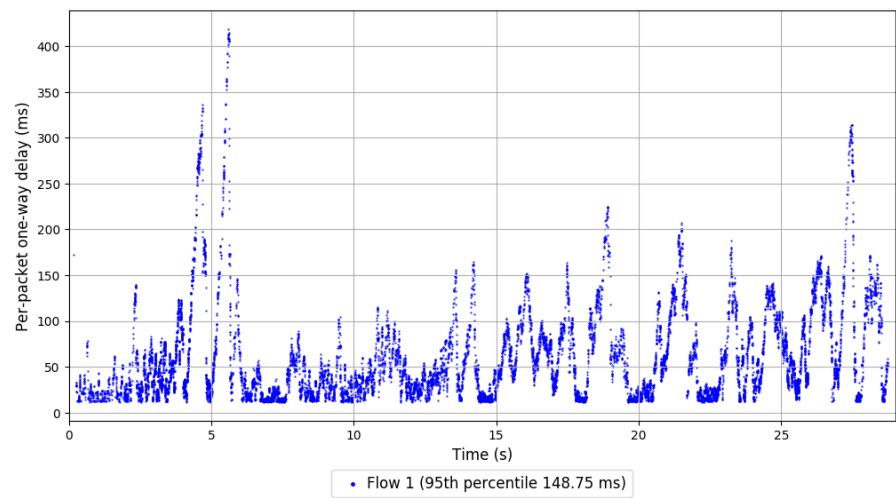
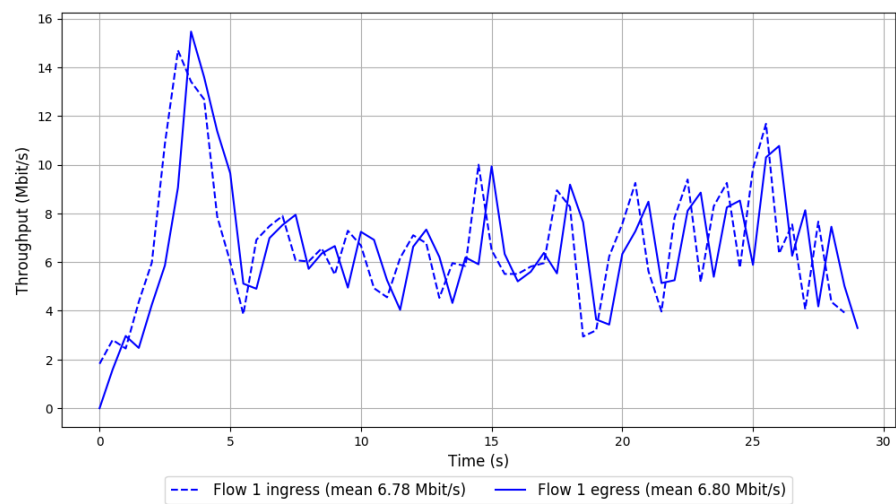
-- Flow 1:

Average throughput: 6.80 Mbit/s

95th percentile per-packet one-way delay: 148.755 ms

Loss rate: 0.32%

Run 3: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-08-26 16:17:24

End at: 2019-08-26 16:17:54

Local clock offset: -3.773 ms

Remote clock offset: 1.254 ms

Below is generated by plot.py at 2019-08-26 17:35:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.53 Mbit/s

95th percentile per-packet one-way delay: 282.929 ms

Loss rate: 0.28%

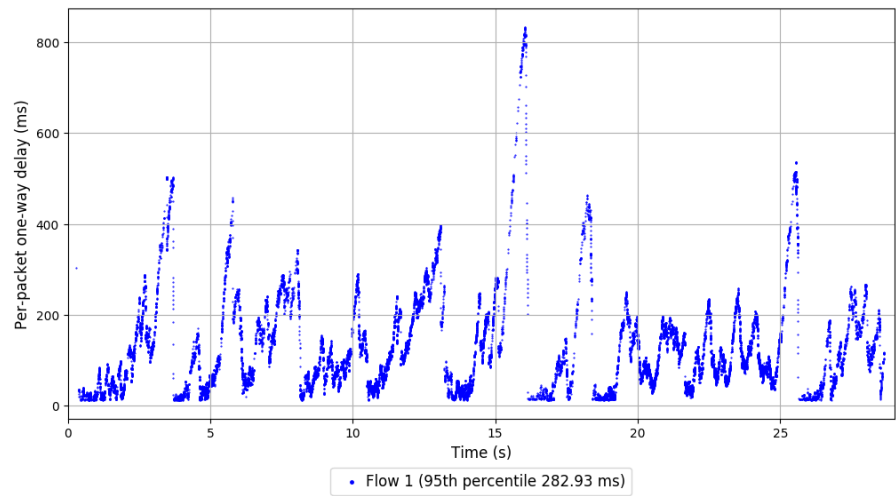
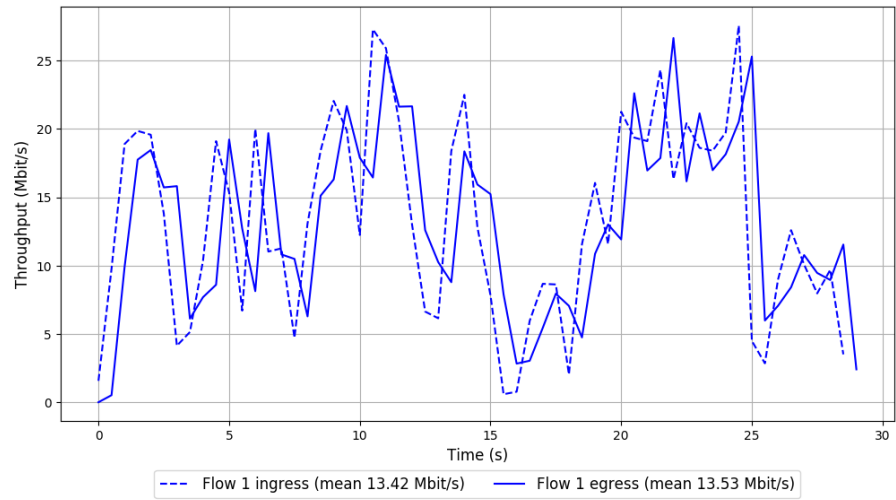
-- Flow 1:

Average throughput: 13.53 Mbit/s

95th percentile per-packet one-way delay: 282.929 ms

Loss rate: 0.28%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-08-26 16:46:56

End at: 2019-08-26 16:47:26

Local clock offset: -3.008 ms

Remote clock offset: 1.312 ms

Below is generated by plot.py at 2019-08-26 17:35:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.63 Mbit/s

95th percentile per-packet one-way delay: 233.236 ms

Loss rate: 0.29%

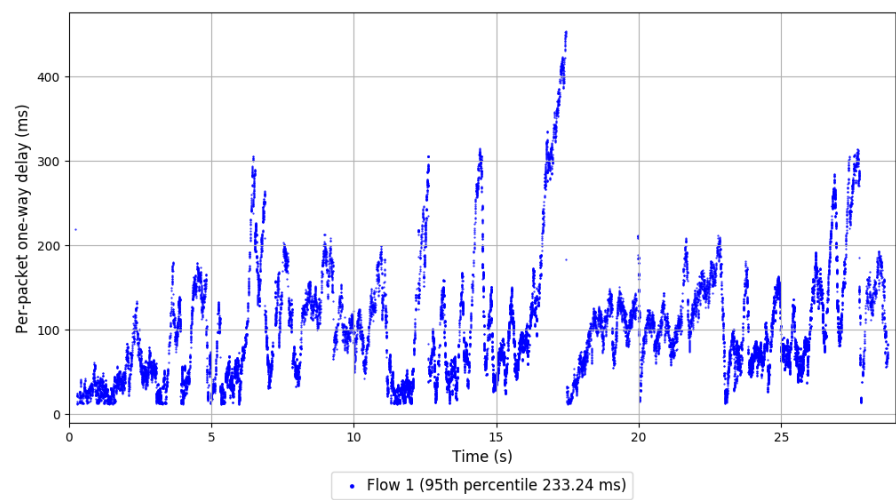
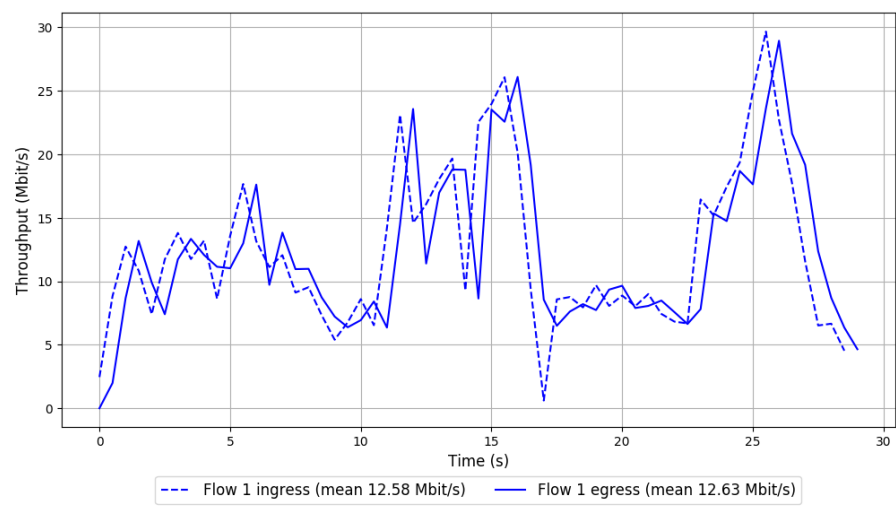
-- Flow 1:

Average throughput: 12.63 Mbit/s

95th percentile per-packet one-way delay: 233.236 ms

Loss rate: 0.29%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-08-26 17:16:26

End at: 2019-08-26 17:16:56

Local clock offset: -0.294 ms

Remote clock offset: 1.603 ms

Below is generated by plot.py at 2019-08-26 17:35:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.52 Mbit/s

95th percentile per-packet one-way delay: 288.904 ms

Loss rate: 0.47%

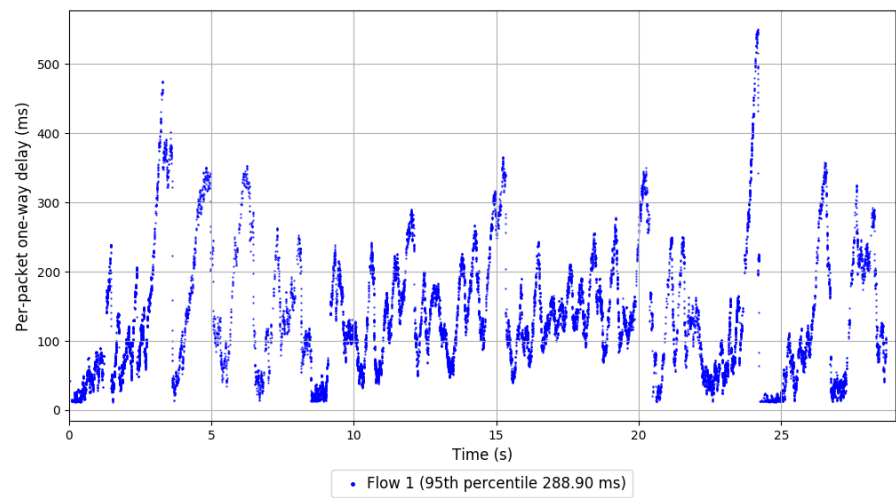
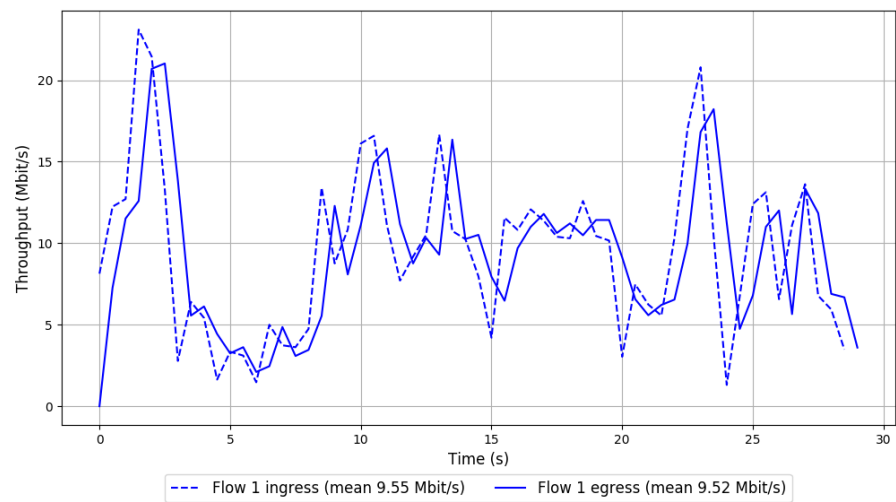
-- Flow 1:

Average throughput: 9.52 Mbit/s

95th percentile per-packet one-way delay: 288.904 ms

Loss rate: 0.47%

Run 3: Report of Indigo-MusesT — Data Link

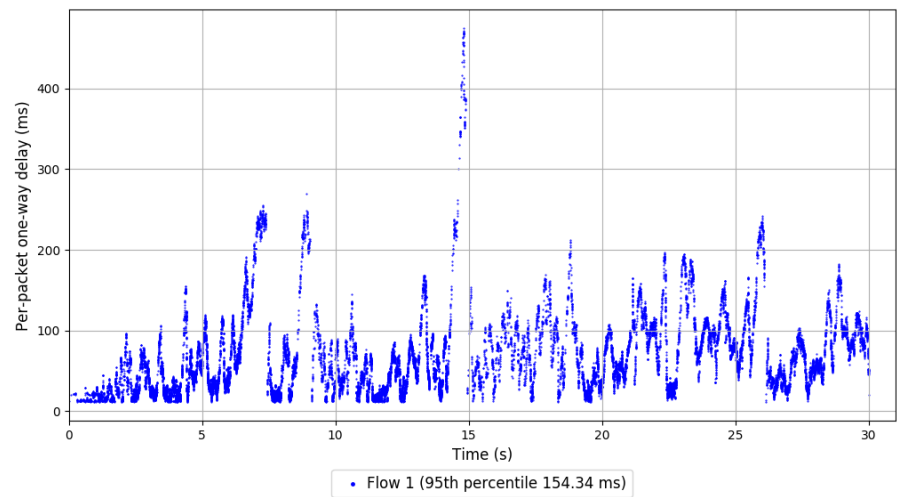
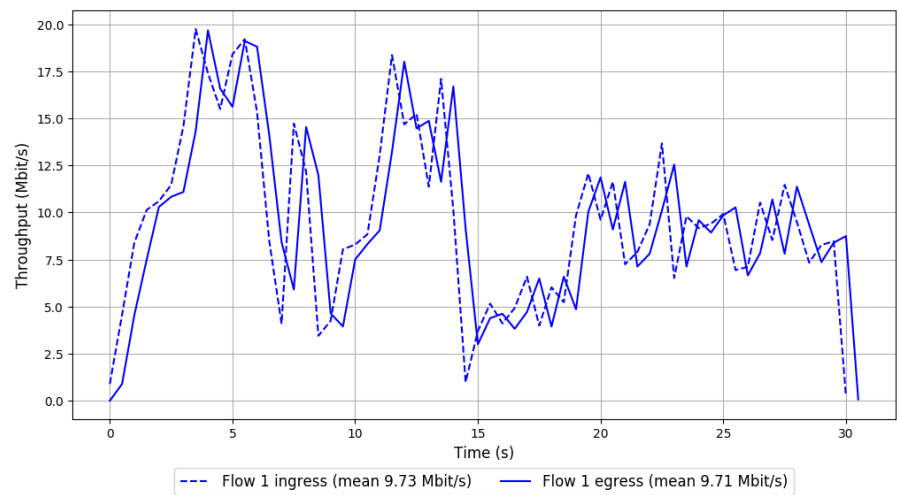



```
Run 1: Statistics of LEDBAT

Start at: 2019-08-26 16:32:08
End at: 2019-08-26 16:32:38
Local clock offset: 1.042 ms
Remote clock offset: 0.856 ms

# Below is generated by plot.py at 2019-08-26 17:35:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.71 Mbit/s
95th percentile per-packet one-way delay: 154.337 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 9.71 Mbit/s
95th percentile per-packet one-way delay: 154.337 ms
Loss rate: 0.23%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-08-26 17:01:38

End at: 2019-08-26 17:02:08

Local clock offset: 0.304 ms

Remote clock offset: 1.357 ms

Below is generated by plot.py at 2019-08-26 17:35:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.49 Mbit/s

95th percentile per-packet one-way delay: 154.328 ms

Loss rate: 0.26%

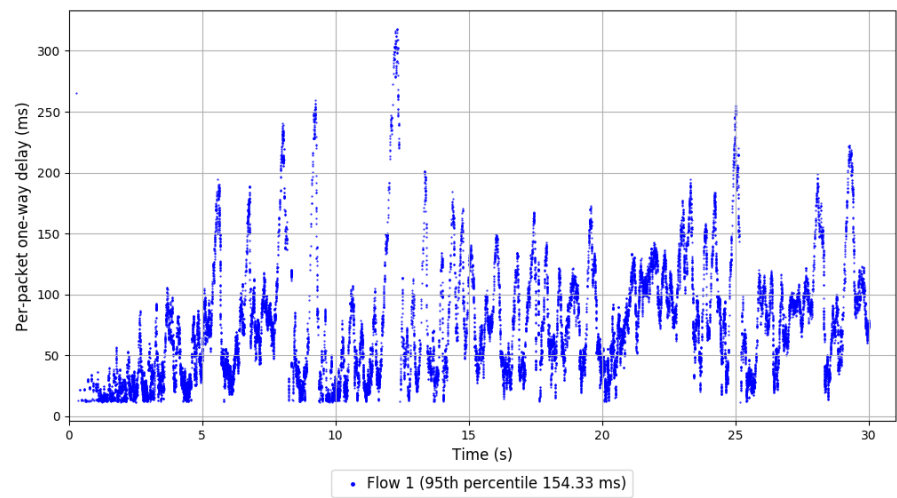
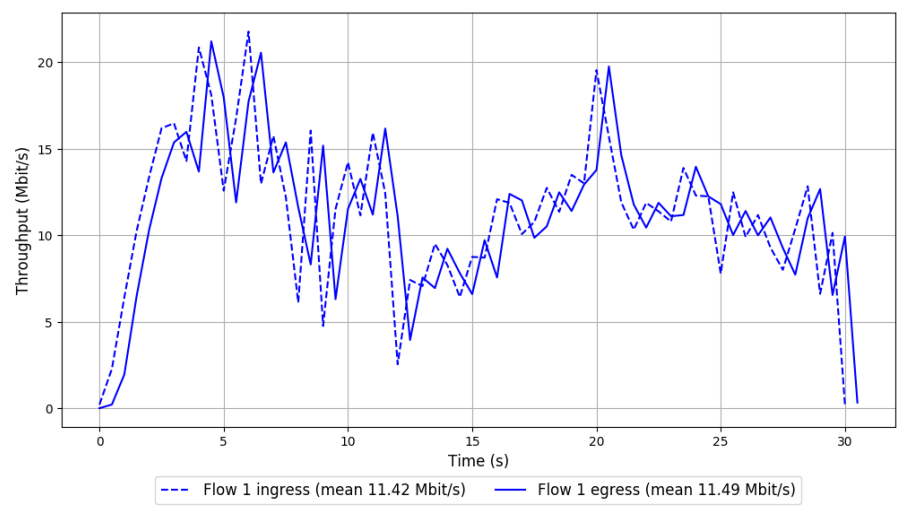
-- Flow 1:

Average throughput: 11.49 Mbit/s

95th percentile per-packet one-way delay: 154.328 ms

Loss rate: 0.26%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-08-26 17:31:09

End at: 2019-08-26 17:31:39

Local clock offset: -0.683 ms

Remote clock offset: 1.805 ms

Below is generated by plot.py at 2019-08-26 17:35:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.41 Mbit/s

95th percentile per-packet one-way delay: 117.343 ms

Loss rate: 0.35%

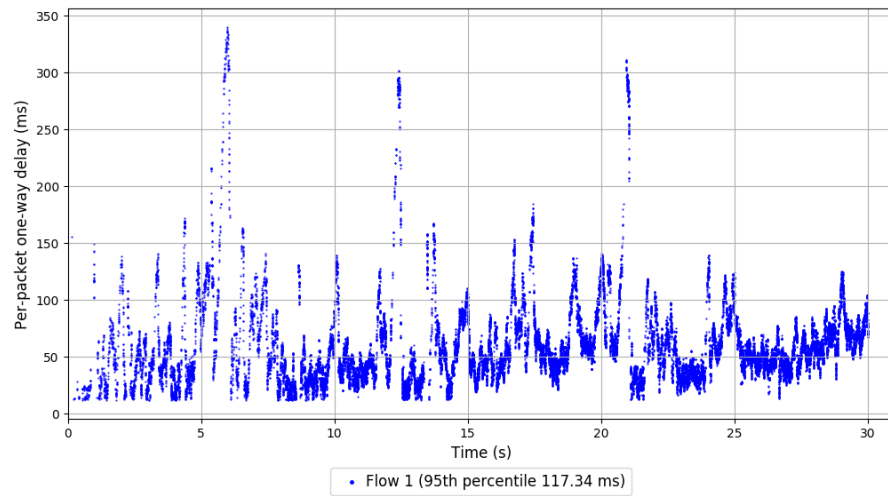
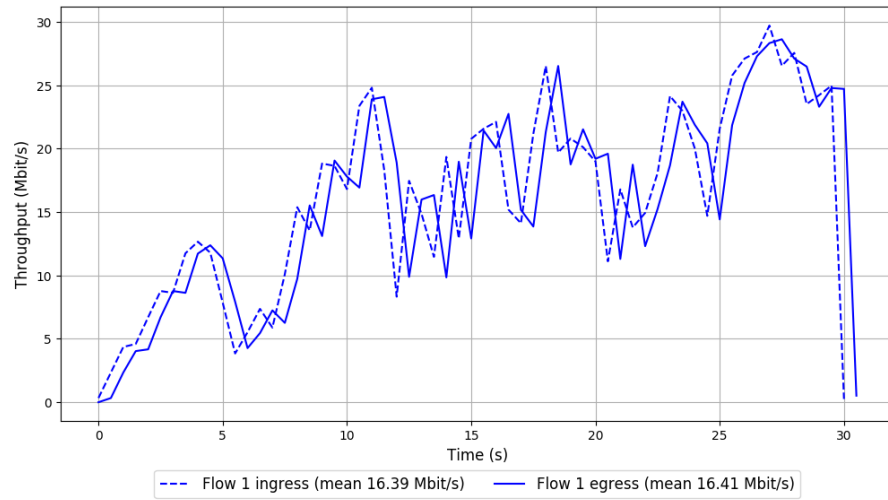
-- Flow 1:

Average throughput: 16.41 Mbit/s

95th percentile per-packet one-way delay: 117.343 ms

Loss rate: 0.35%

Run 3: Report of LEDBAT — Data Link



Run 1: Statistics of Muses_DecisionTree

Start at: 2019-08-26 16:30:54

End at: 2019-08-26 16:31:24

Local clock offset: 1.57 ms

Remote clock offset: 0.985 ms

Below is generated by plot.py at 2019-08-26 17:35:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.65 Mbit/s

95th percentile per-packet one-way delay: 95.887 ms

Loss rate: 0.00%

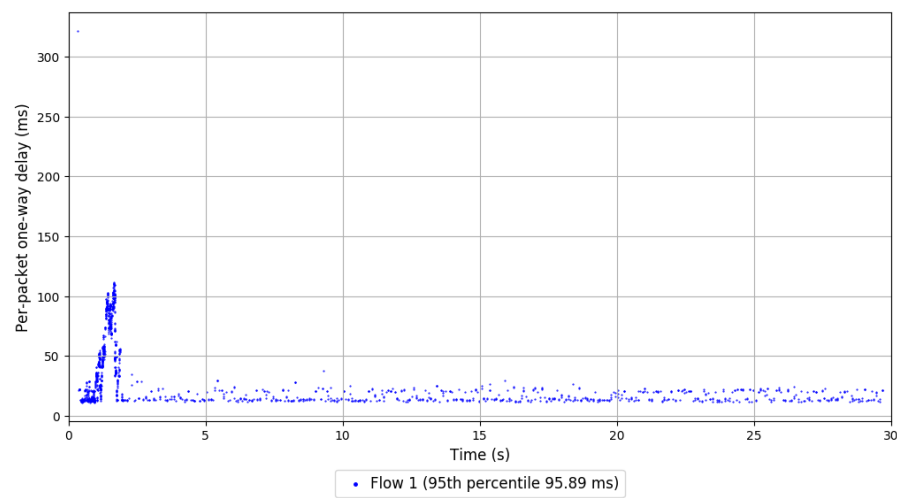
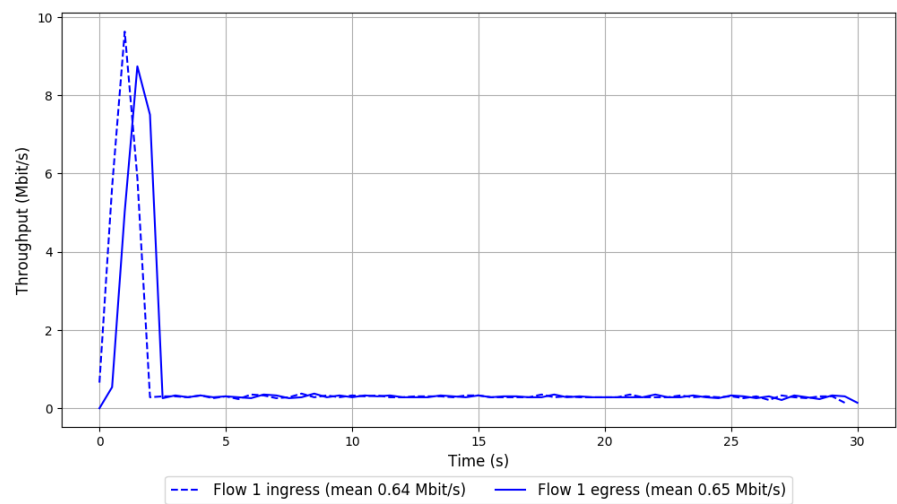
-- Flow 1:

Average throughput: 0.65 Mbit/s

95th percentile per-packet one-way delay: 95.887 ms

Loss rate: 0.00%

Run 1: Report of Muses_DecisionTree — Data Link



Run 2: Statistics of Muses_DecisionTree

Start at: 2019-08-26 17:00:25

End at: 2019-08-26 17:00:55

Local clock offset: 0.257 ms

Remote clock offset: 1.476 ms

Below is generated by plot.py at 2019-08-26 17:35:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 28.879 ms

Loss rate: 0.00%

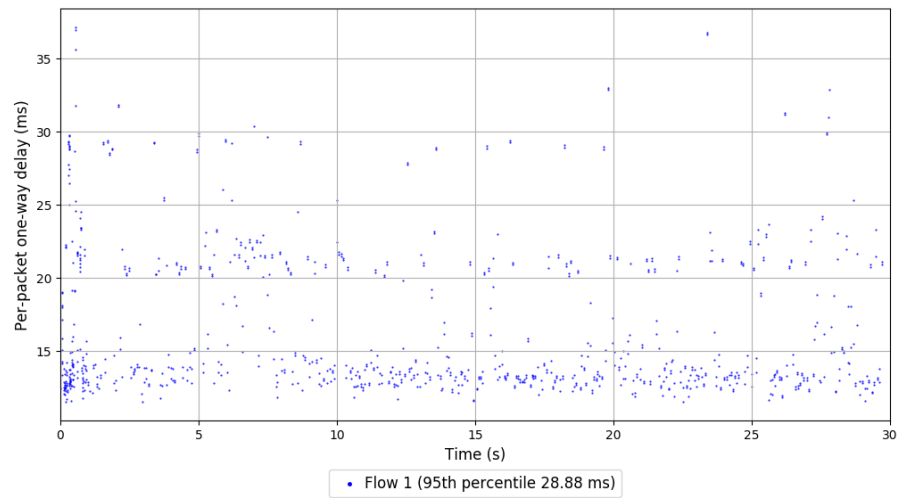
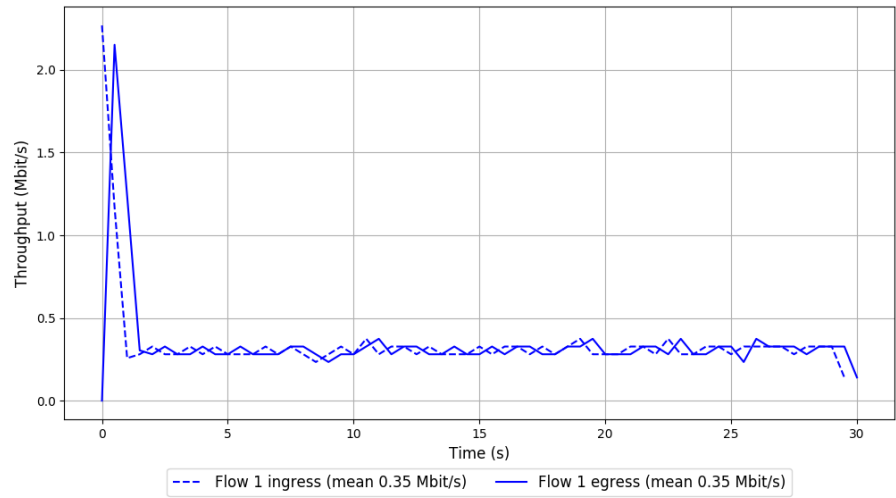
-- Flow 1:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 28.879 ms

Loss rate: 0.00%

Run 2: Report of Muses_DecisionTree — Data Link



Run 3: Statistics of Muses_DecisionTree

Start at: 2019-08-26 17:29:55

End at: 2019-08-26 17:30:25

Local clock offset: -0.621 ms

Remote clock offset: 1.793 ms

Below is generated by plot.py at 2019-08-26 17:35:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 28.152 ms

Loss rate: 0.00%

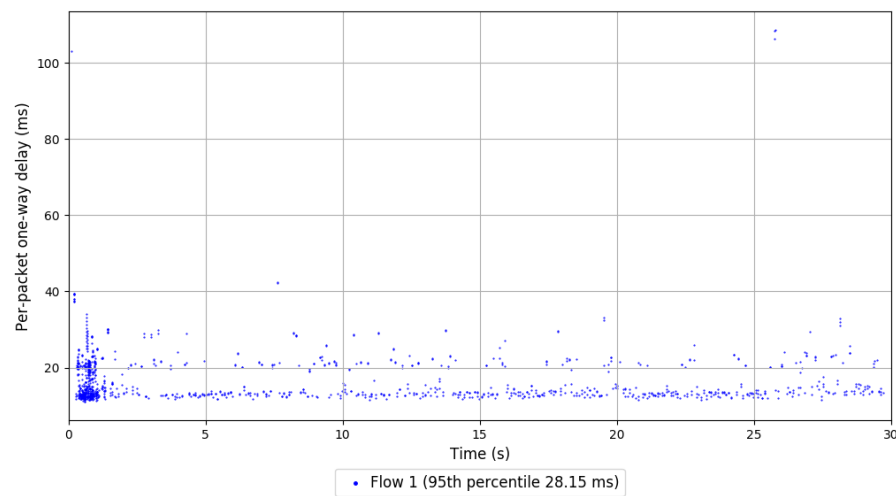
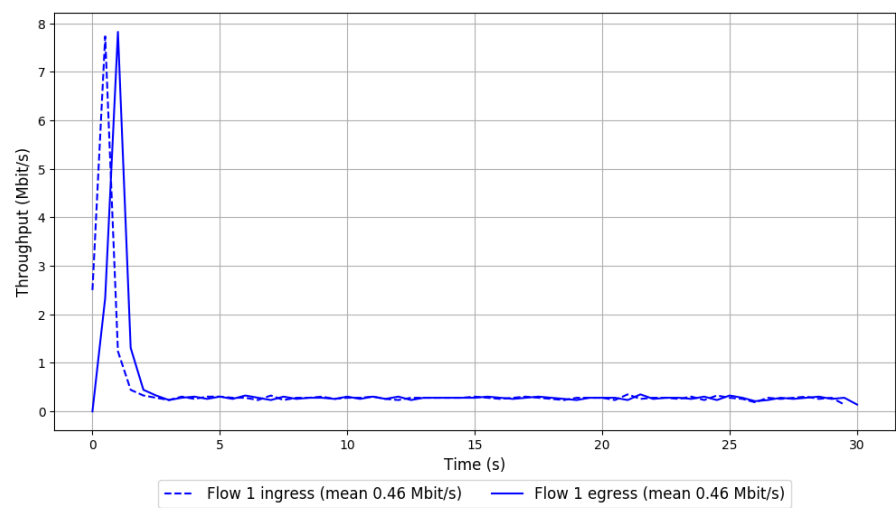
-- Flow 1:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 28.152 ms

Loss rate: 0.00%

Run 3: Report of Muses_DecisionTree — Data Link



Run 1: Statistics of Muses_DecisionTreeH0

Start at: 2019-08-26 16:13:43

End at: 2019-08-26 16:14:13

Local clock offset: -7.231 ms

Remote clock offset: 1.425 ms

Below is generated by plot.py at 2019-08-26 17:35:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.91 Mbit/s

95th percentile per-packet one-way delay: 70.225 ms

Loss rate: 0.09%

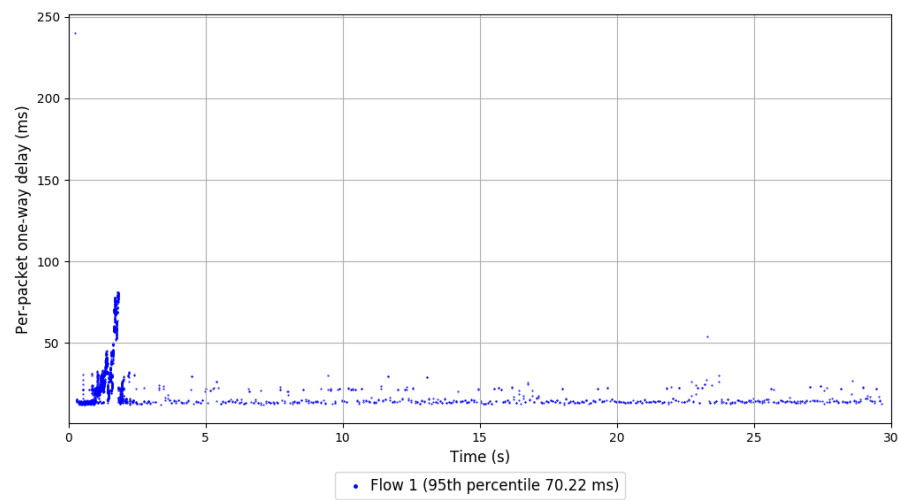
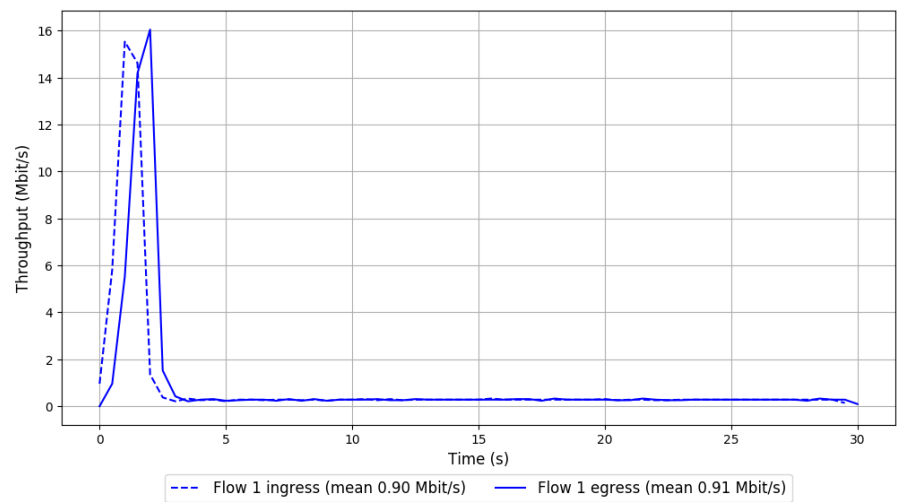
-- Flow 1:

Average throughput: 0.91 Mbit/s

95th percentile per-packet one-way delay: 70.225 ms

Loss rate: 0.09%

Run 1: Report of Muses_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2019-08-26 16:43:15

End at: 2019-08-26 16:43:45

Local clock offset: -2.185 ms

Remote clock offset: 1.207 ms

Below is generated by plot.py at 2019-08-26 17:35:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 119.450 ms

Loss rate: 0.21%

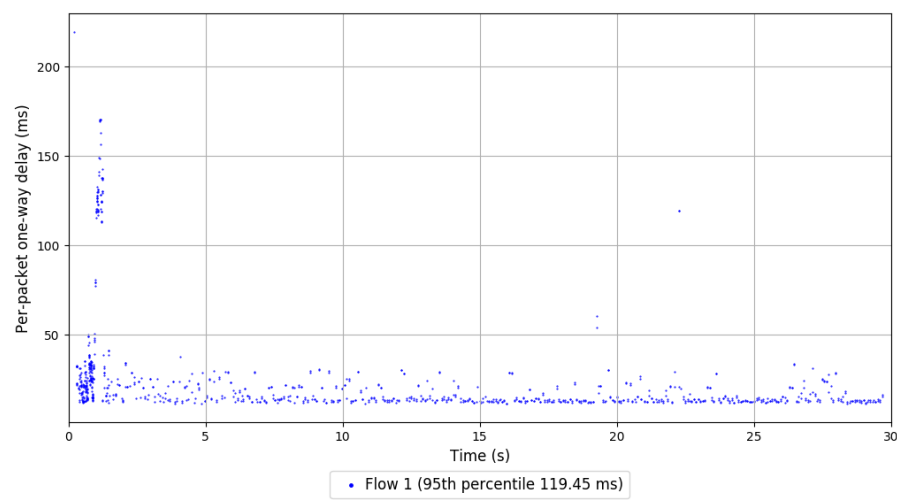
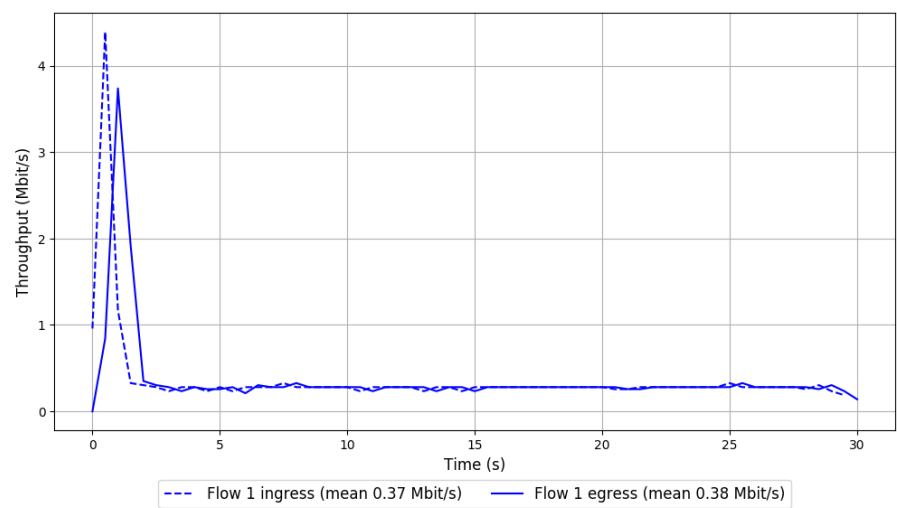
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 119.450 ms

Loss rate: 0.21%

Run 2: Report of Muses_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2019-08-26 17:12:45

End at: 2019-08-26 17:13:15

Local clock offset: -0.072 ms

Remote clock offset: 1.427 ms

Below is generated by plot.py at 2019-08-26 17:35:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 126.685 ms

Loss rate: 0.00%

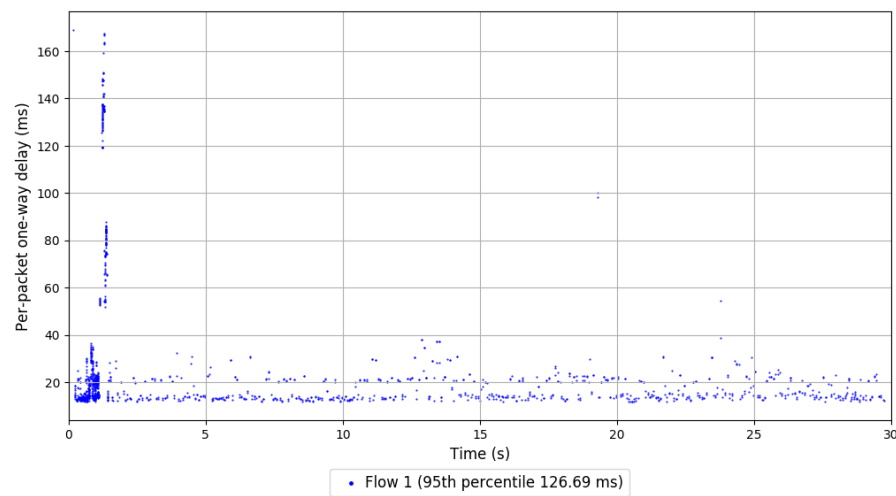
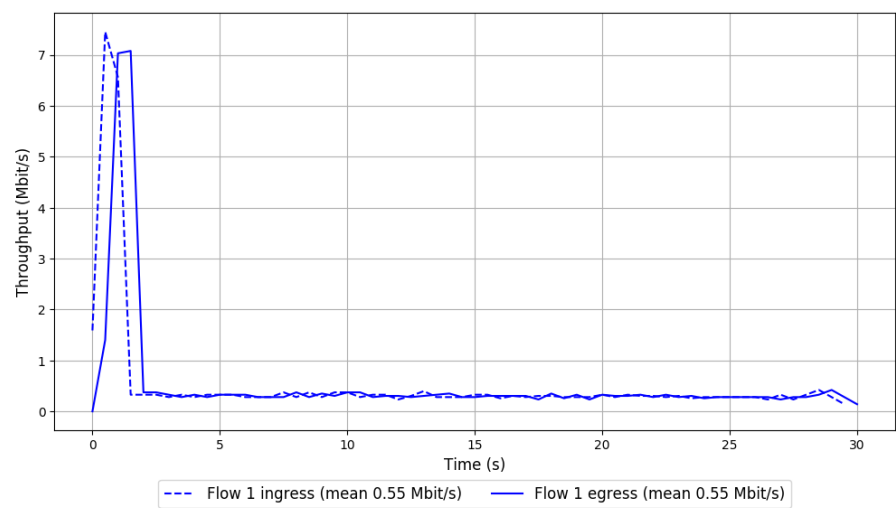
-- Flow 1:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 126.685 ms

Loss rate: 0.00%

Run 3: Report of Muses_DecisionTreeH0 — Data Link

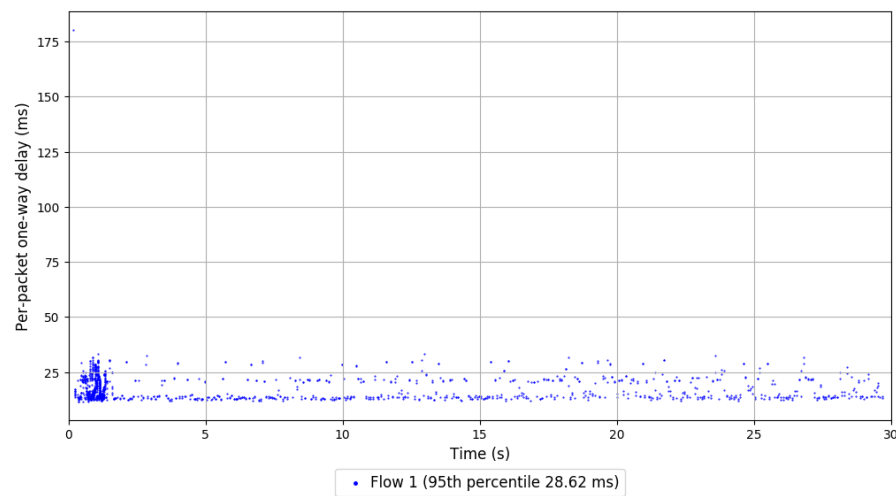
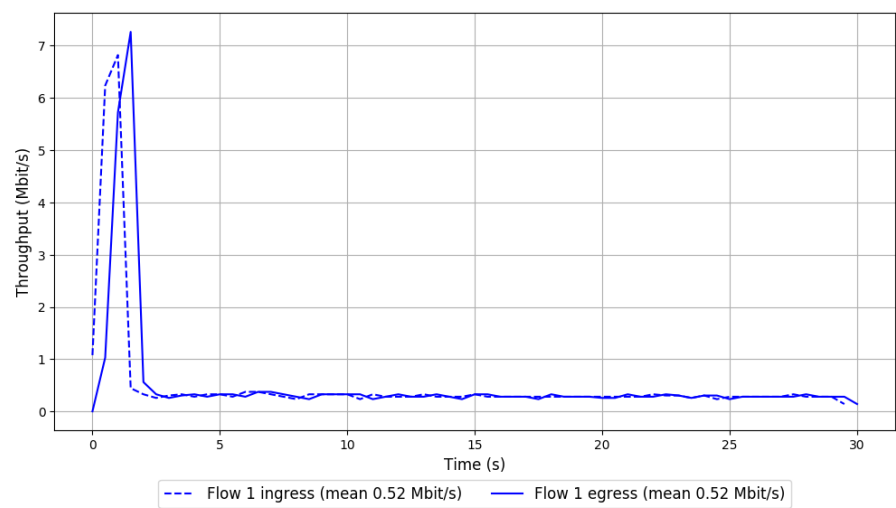


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-08-26 16:23:33
End at: 2019-08-26 16:24:03
Local clock offset: 1.172 ms
Remote clock offset: 1.158 ms

# Below is generated by plot.py at 2019-08-26 17:35:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 28.623 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 28.623 ms
Loss rate: 0.00%
```

Run 1: Report of Muses_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2019-08-26 16:53:04

End at: 2019-08-26 16:53:34

Local clock offset: -1.653 ms

Remote clock offset: 1.47 ms

Below is generated by plot.py at 2019-08-26 17:35:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 77.248 ms

Loss rate: 0.00%

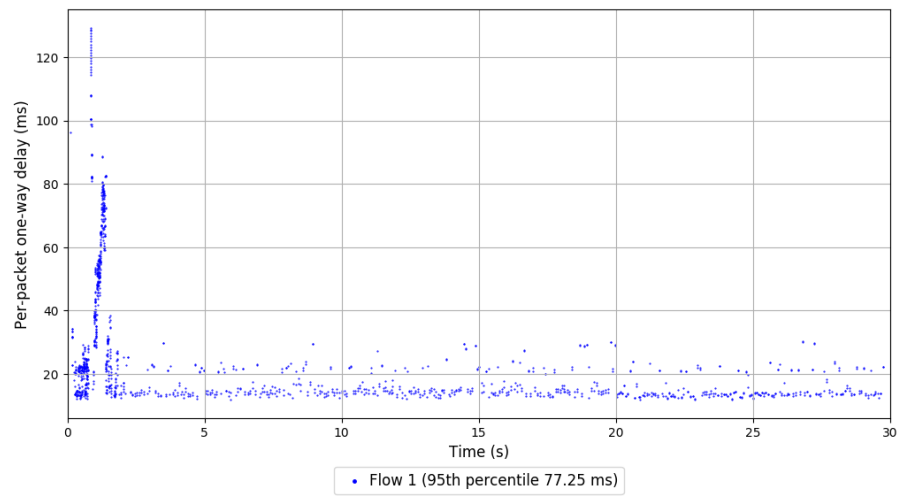
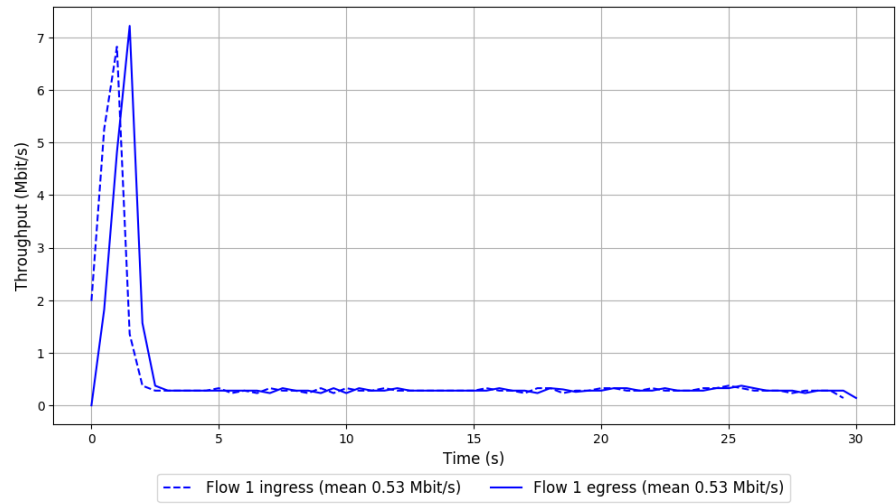
-- Flow 1:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 77.248 ms

Loss rate: 0.00%

Run 2: Report of Muses_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-08-26 17:22:34

End at: 2019-08-26 17:23:04

Local clock offset: -0.495 ms

Remote clock offset: 1.862 ms

Below is generated by plot.py at 2019-08-26 17:35:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 102.156 ms

Loss rate: 0.00%

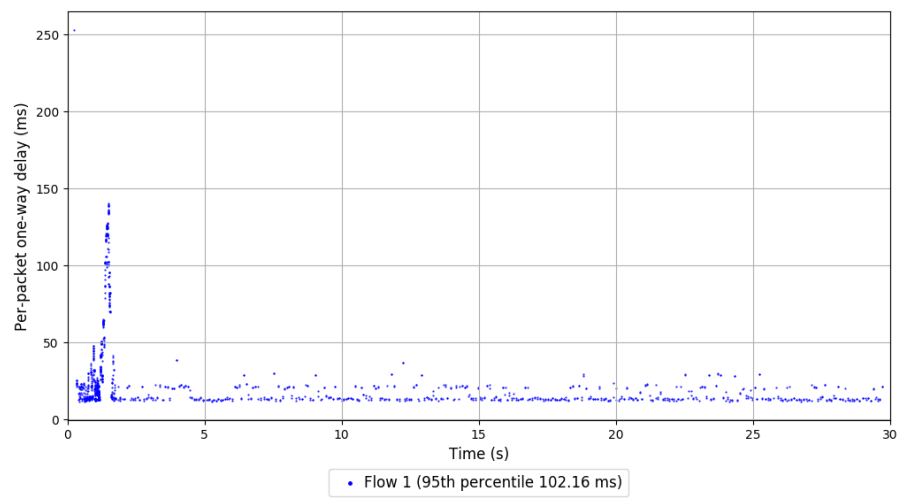
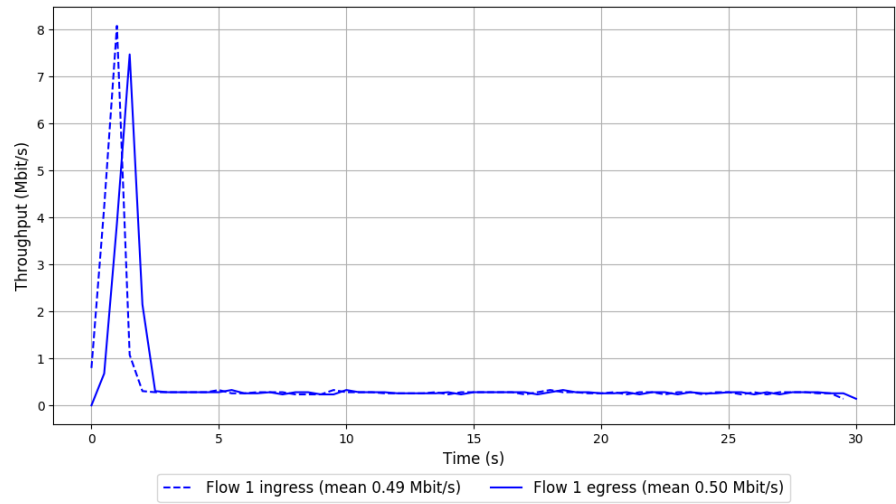
-- Flow 1:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 102.156 ms

Loss rate: 0.00%

Run 3: Report of Muses_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-08-26 16:33:21

End at: 2019-08-26 16:33:51

Local clock offset: 0.46 ms

Remote clock offset: 0.914 ms

Below is generated by plot.py at 2019-08-26 17:35:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.95 Mbit/s

95th percentile per-packet one-way delay: 894.905 ms

Loss rate: 1.76%

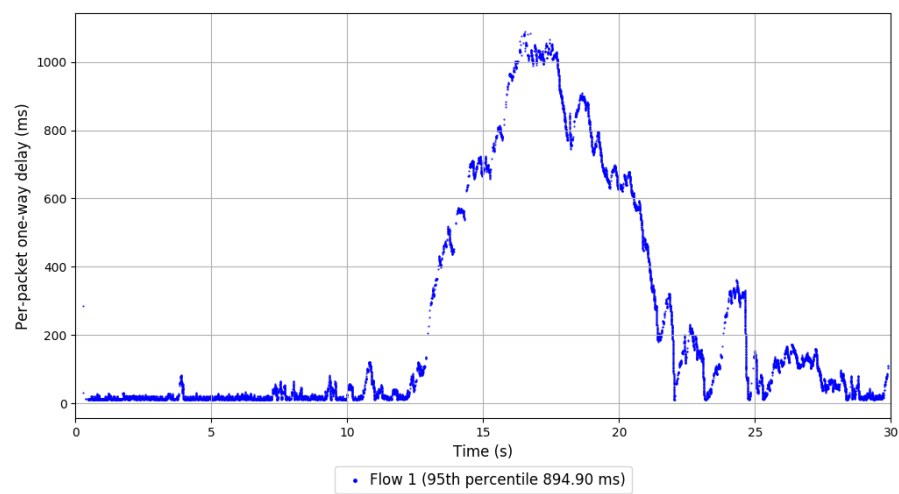
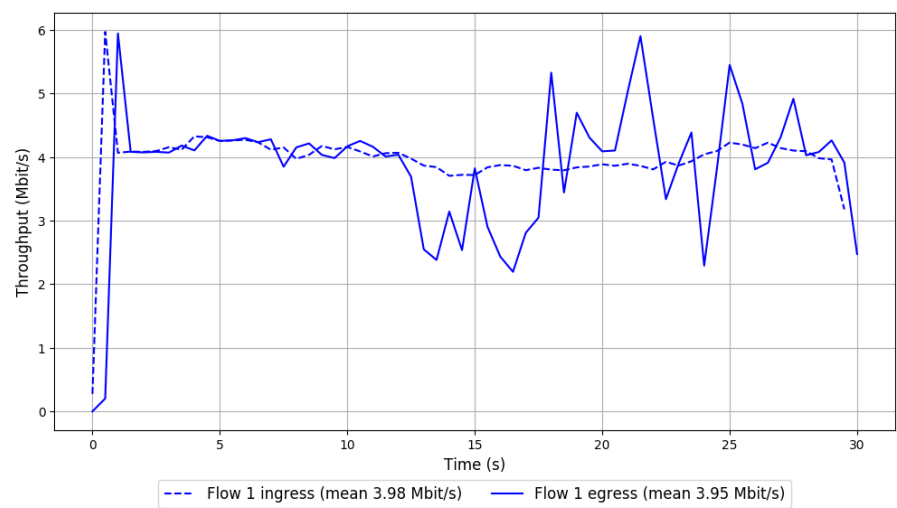
-- Flow 1:

Average throughput: 3.95 Mbit/s

95th percentile per-packet one-way delay: 894.905 ms

Loss rate: 1.76%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-08-26 17:02:52

End at: 2019-08-26 17:03:22

Local clock offset: 0.309 ms

Remote clock offset: 1.441 ms

Below is generated by plot.py at 2019-08-26 17:35:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.75 Mbit/s

95th percentile per-packet one-way delay: 839.768 ms

Loss rate: 1.14%

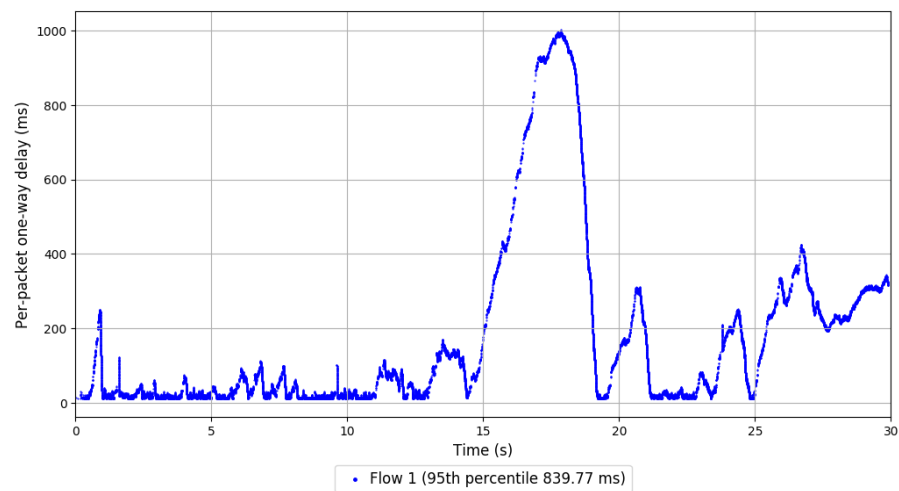
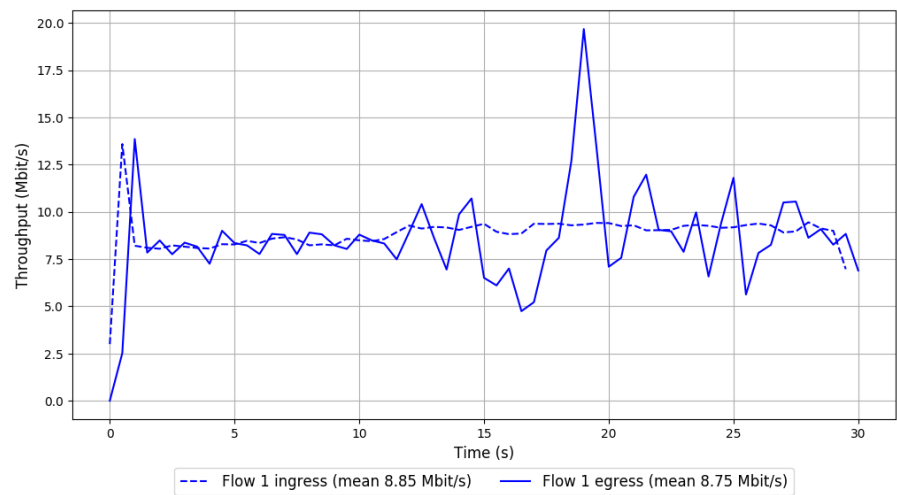
-- Flow 1:

Average throughput: 8.75 Mbit/s

95th percentile per-packet one-way delay: 839.768 ms

Loss rate: 1.14%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-08-26 17:32:23

End at: 2019-08-26 17:32:53

Local clock offset: -0.721 ms

Remote clock offset: 1.835 ms

Below is generated by plot.py at 2019-08-26 17:35:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.51 Mbit/s

95th percentile per-packet one-way delay: 1056.170 ms

Loss rate: 27.98%

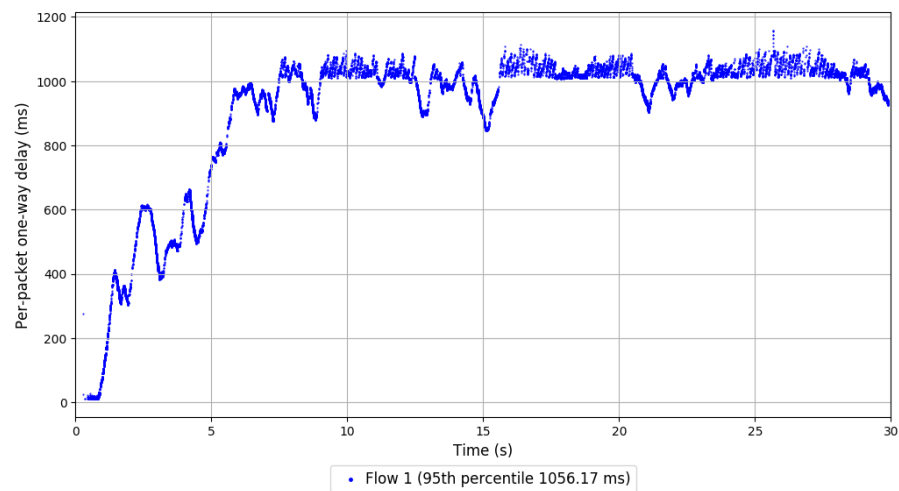
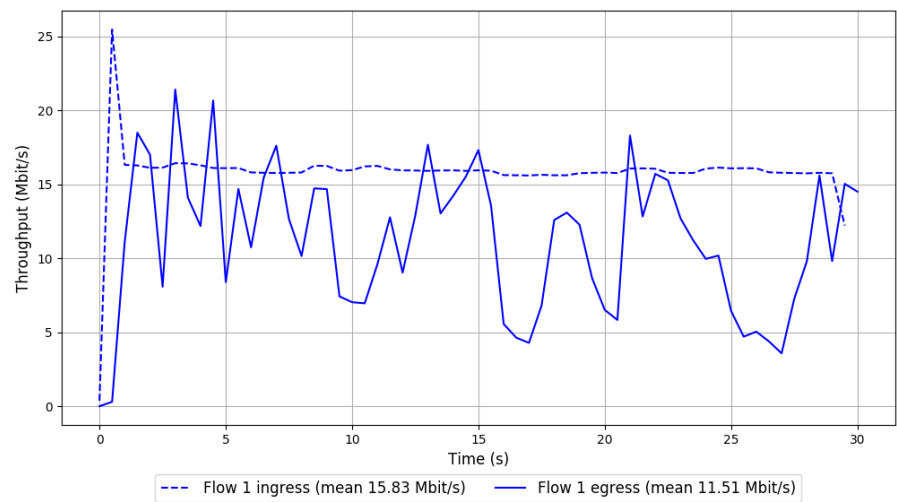
-- Flow 1:

Average throughput: 11.51 Mbit/s

95th percentile per-packet one-way delay: 1056.170 ms

Loss rate: 27.98%

Run 3: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

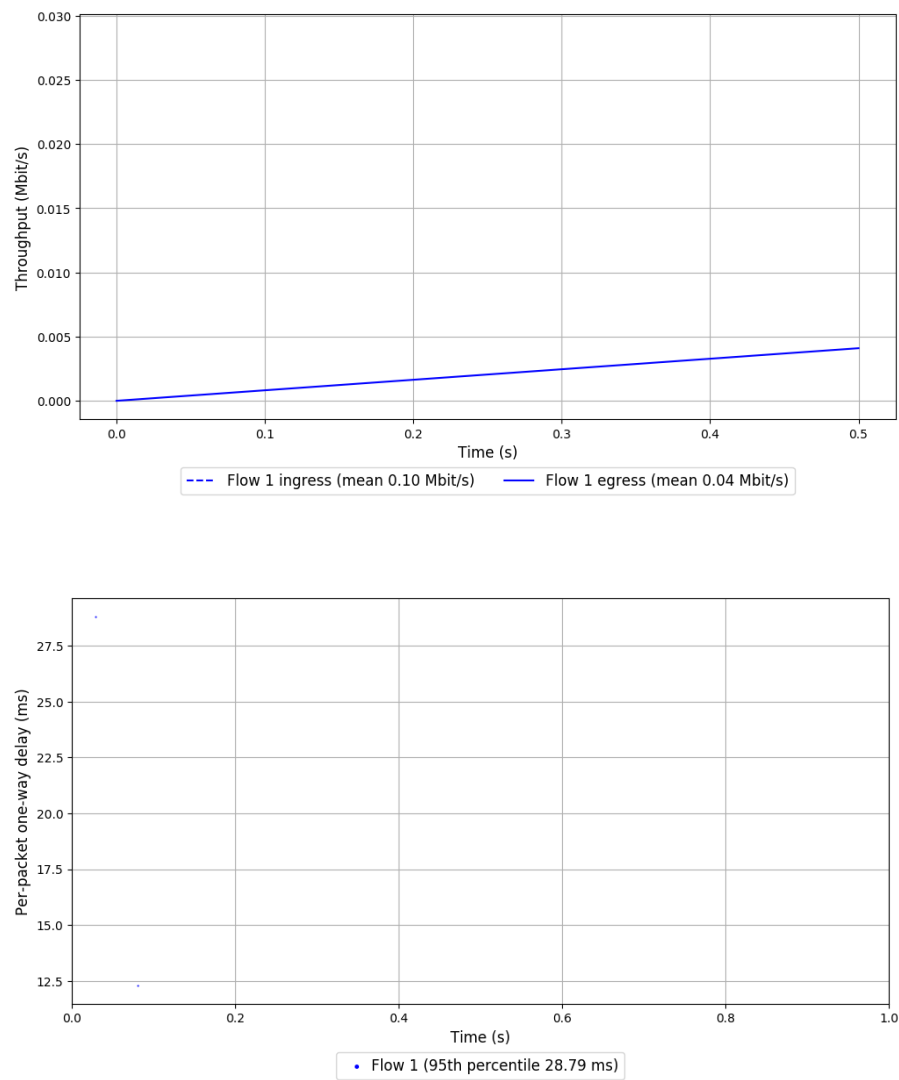
Start at: 2019-08-26 16:11:15

End at: 2019-08-26 16:11:46

Local clock offset: -6.776 ms

Remote clock offset: 1.473 ms

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-08-26 16:40:47

End at: 2019-08-26 16:41:17

Local clock offset: -1.663 ms

Remote clock offset: 1.073 ms

Below is generated by plot.py at 2019-08-26 17:35:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 1059.790 ms

Loss rate: 31.50%

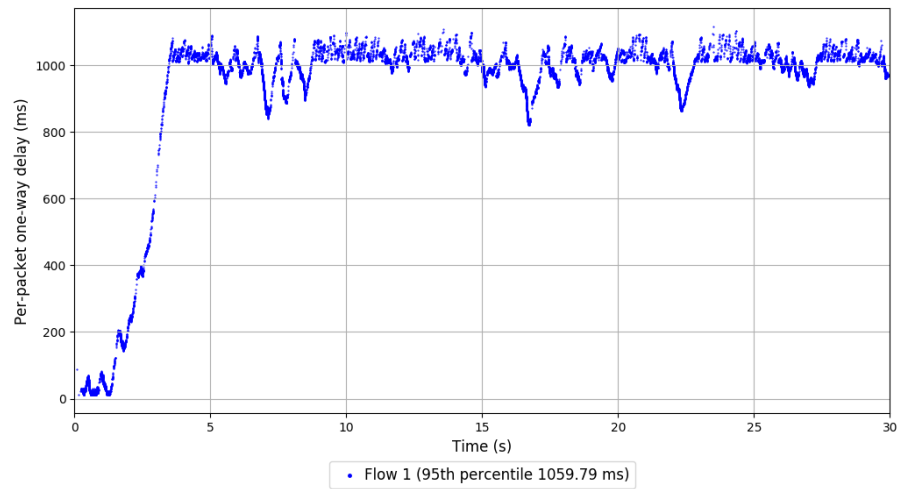
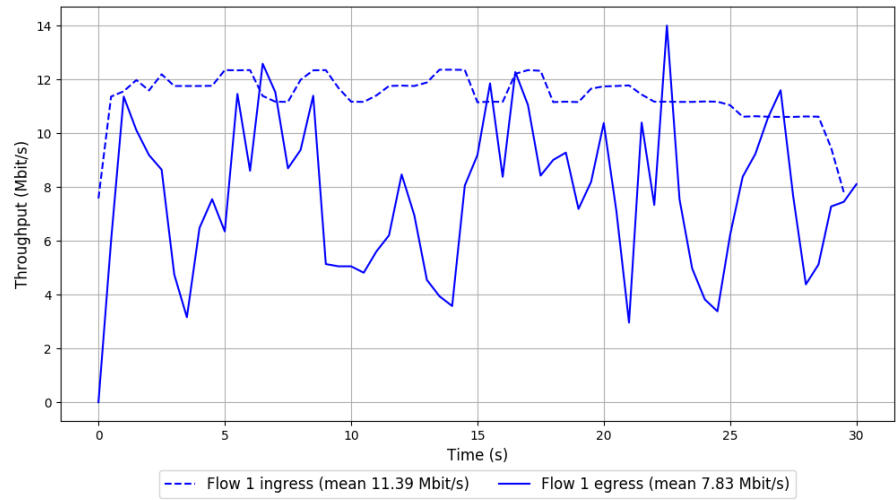
-- Flow 1:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 1059.790 ms

Loss rate: 31.50%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-08-26 17:10:13

End at: 2019-08-26 17:10:43

Local clock offset: 0.136 ms

Remote clock offset: 1.413 ms

Below is generated by plot.py at 2019-08-26 17:35:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.86 Mbit/s

95th percentile per-packet one-way delay: 158.077 ms

Loss rate: 0.03%

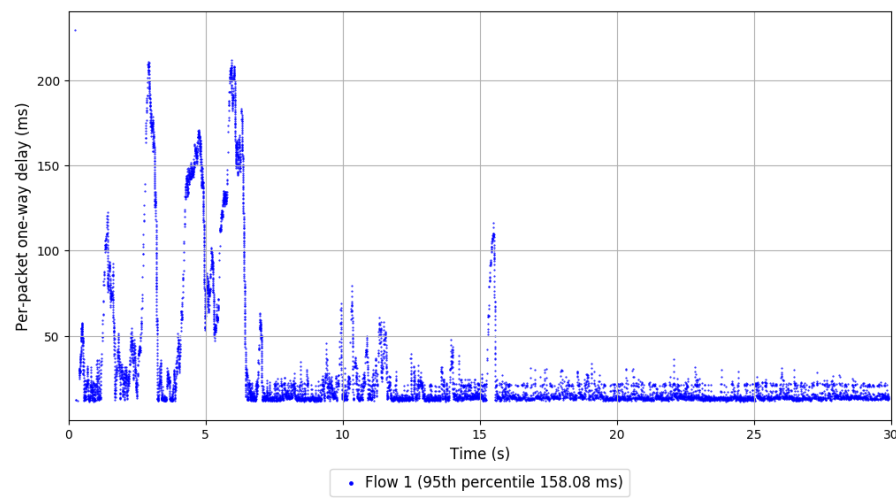
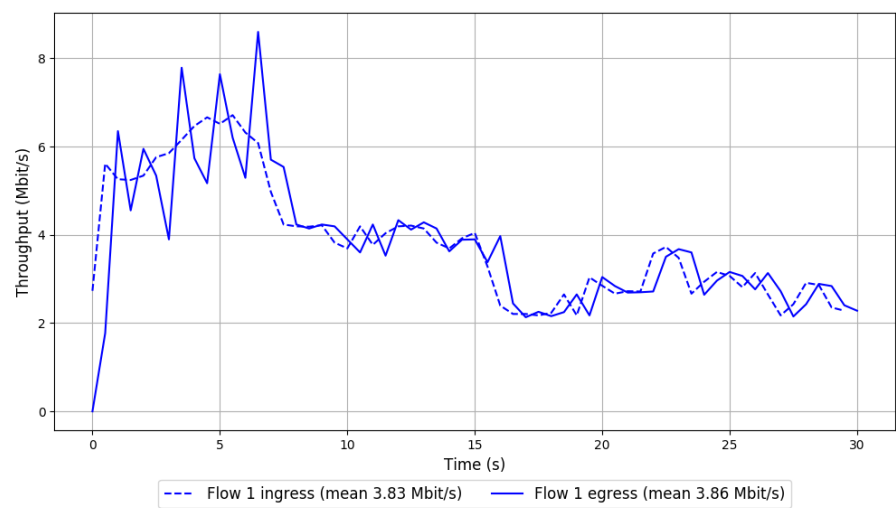
-- Flow 1:

Average throughput: 3.86 Mbit/s

95th percentile per-packet one-way delay: 158.077 ms

Loss rate: 0.03%

Run 3: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-08-26 16:12:29

End at: 2019-08-26 16:12:59

Local clock offset: -7.253 ms

Remote clock offset: 1.442 ms

Below is generated by plot.py at 2019-08-26 17:35:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.68 Mbit/s

95th percentile per-packet one-way delay: 249.712 ms

Loss rate: 0.43%

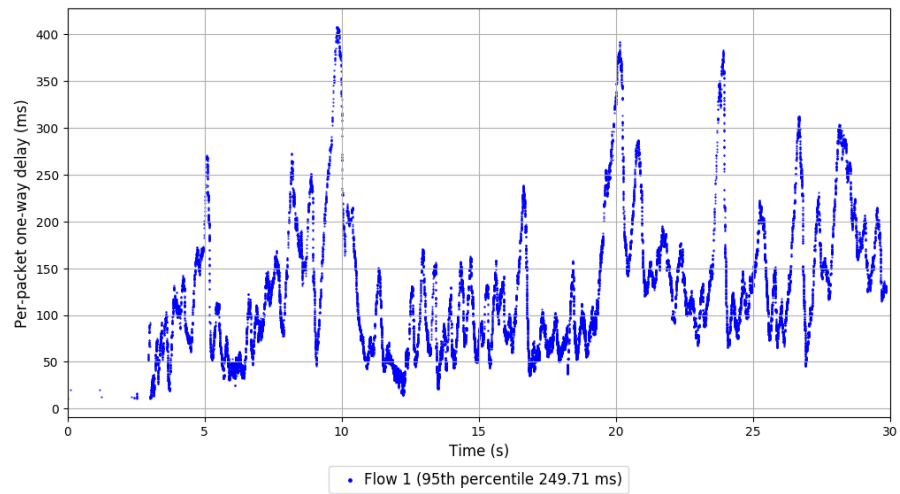
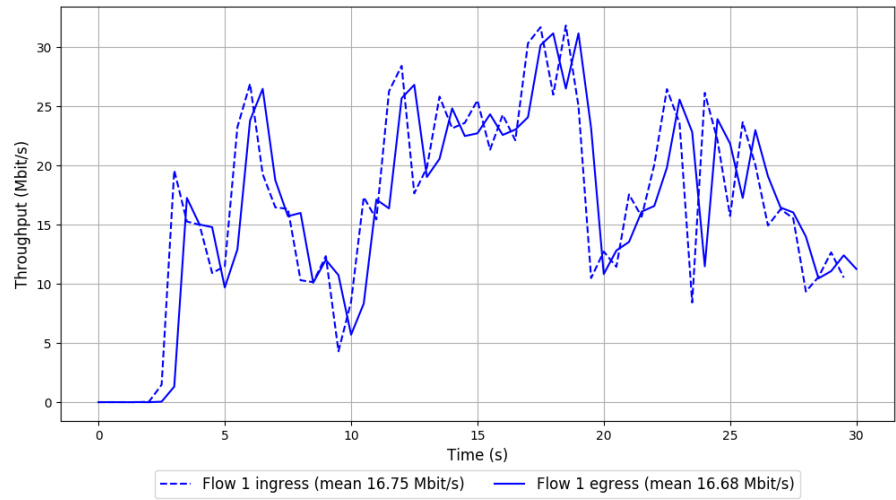
-- Flow 1:

Average throughput: 16.68 Mbit/s

95th percentile per-packet one-way delay: 249.712 ms

Loss rate: 0.43%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-08-26 16:42:01

End at: 2019-08-26 16:42:31

Local clock offset: -1.908 ms

Remote clock offset: 1.009 ms

Below is generated by plot.py at 2019-08-26 17:35:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.25 Mbit/s

95th percentile per-packet one-way delay: 285.736 ms

Loss rate: 0.23%

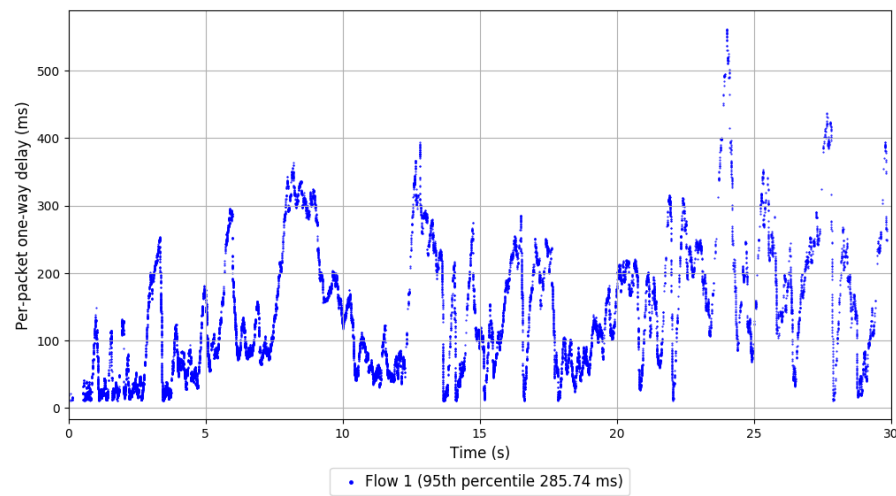
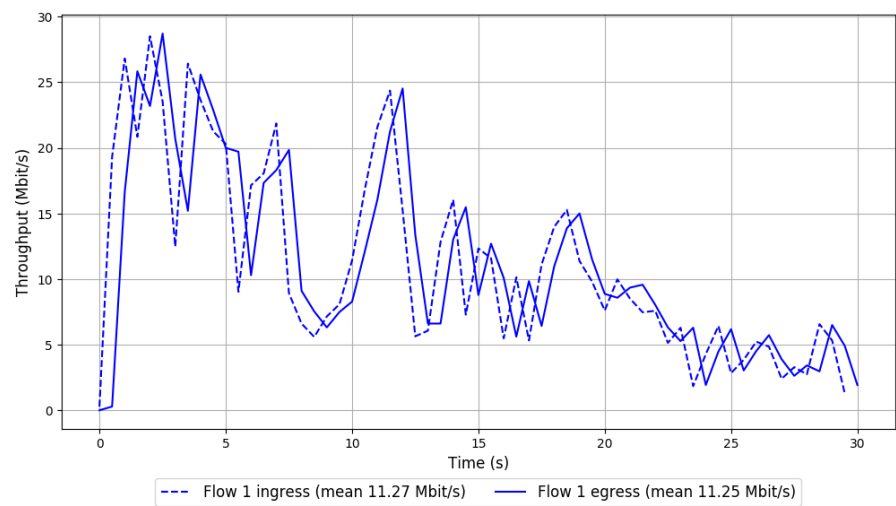
-- Flow 1:

Average throughput: 11.25 Mbit/s

95th percentile per-packet one-way delay: 285.736 ms

Loss rate: 0.23%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-08-26 17:11:27

End at: 2019-08-26 17:11:57

Local clock offset: 0.001 ms

Remote clock offset: 1.379 ms

Below is generated by plot.py at 2019-08-26 17:35:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.58 Mbit/s

95th percentile per-packet one-way delay: 307.878 ms

Loss rate: 0.35%

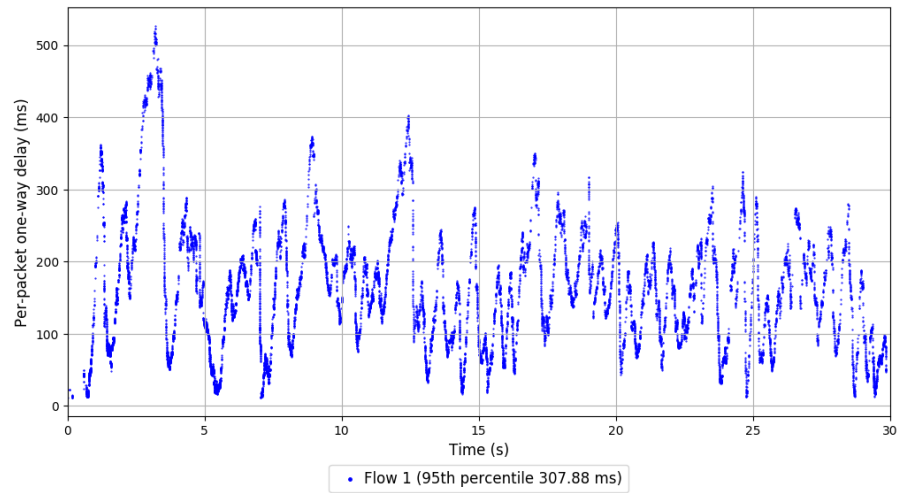
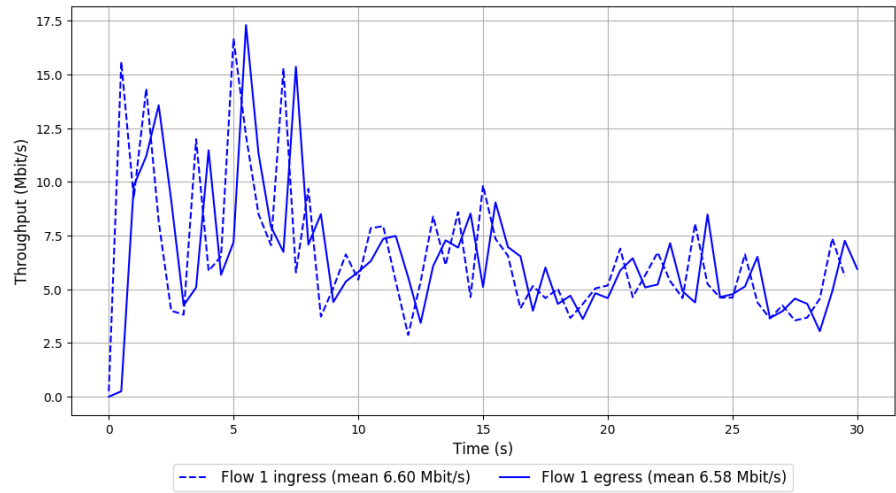
-- Flow 1:

Average throughput: 6.58 Mbit/s

95th percentile per-packet one-way delay: 307.878 ms

Loss rate: 0.35%

Run 3: Report of QUIC Cubic — Data Link

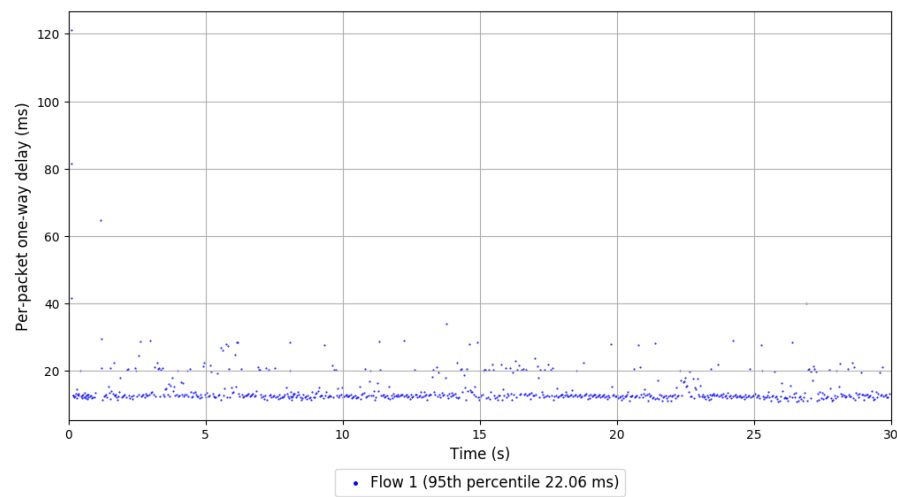
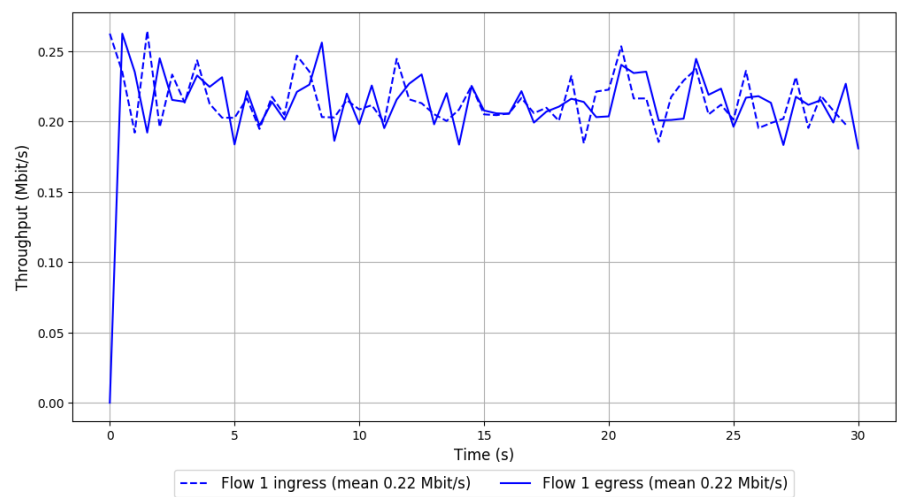


```
Run 1: Statistics of SCReAM

Start at: 2019-08-26 16:08:48
End at: 2019-08-26 16:09:18
Local clock offset: -6.012 ms
Remote clock offset: 1.62 ms

# Below is generated by plot.py at 2019-08-26 17:35:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 22.060 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 22.060 ms
Loss rate: 0.13%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-08-26 16:38:20

End at: 2019-08-26 16:38:50

Local clock offset: -1.167 ms

Remote clock offset: 0.785 ms

Below is generated by plot.py at 2019-08-26 17:35:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 21.267 ms

Loss rate: 0.00%

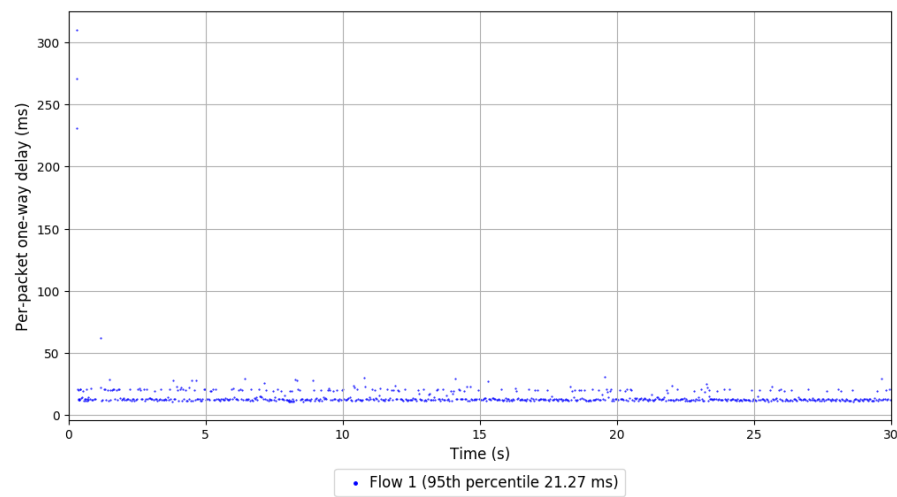
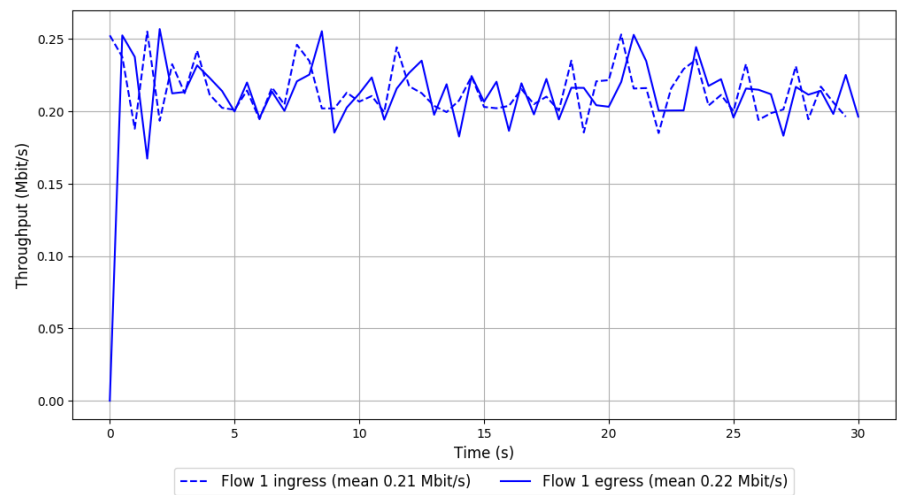
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 21.267 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-08-26 17:07:46

End at: 2019-08-26 17:08:16

Local clock offset: 0.249 ms

Remote clock offset: 1.338 ms

Below is generated by plot.py at 2019-08-26 17:35:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 21.694 ms

Loss rate: 0.00%

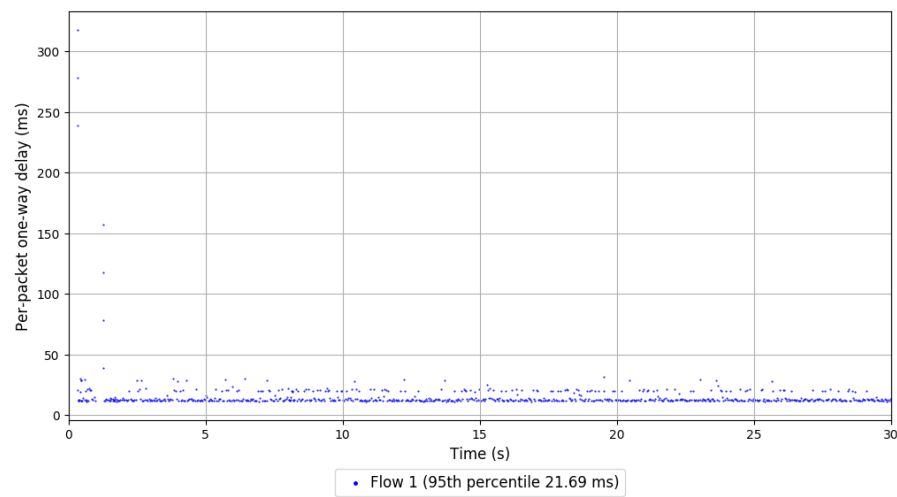
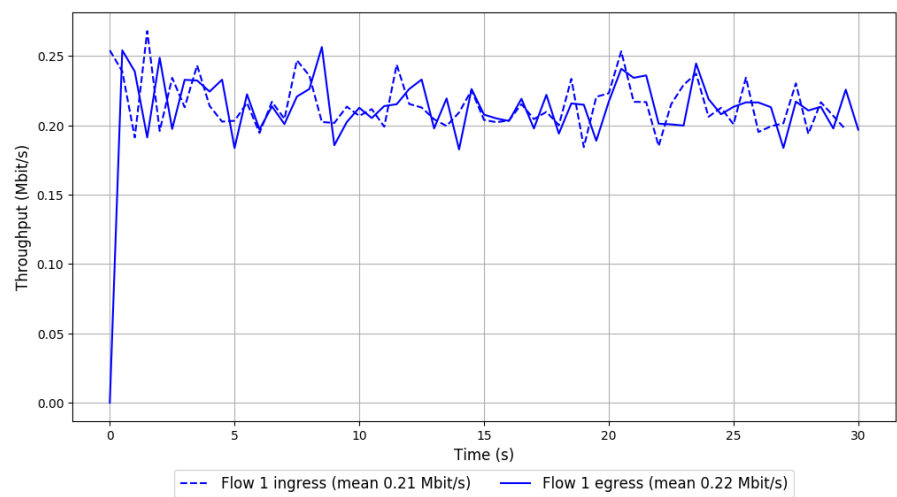
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 21.694 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-08-26 16:29:41

End at: 2019-08-26 16:30:11

Local clock offset: 1.678 ms

Remote clock offset: 0.919 ms

Below is generated by plot.py at 2019-08-26 17:35:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.14 Mbit/s

95th percentile per-packet one-way delay: 77.956 ms

Loss rate: 0.02%

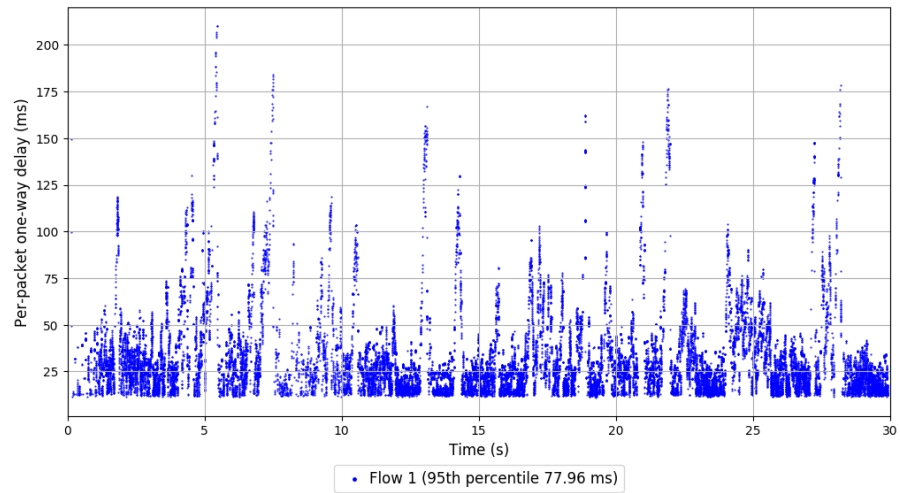
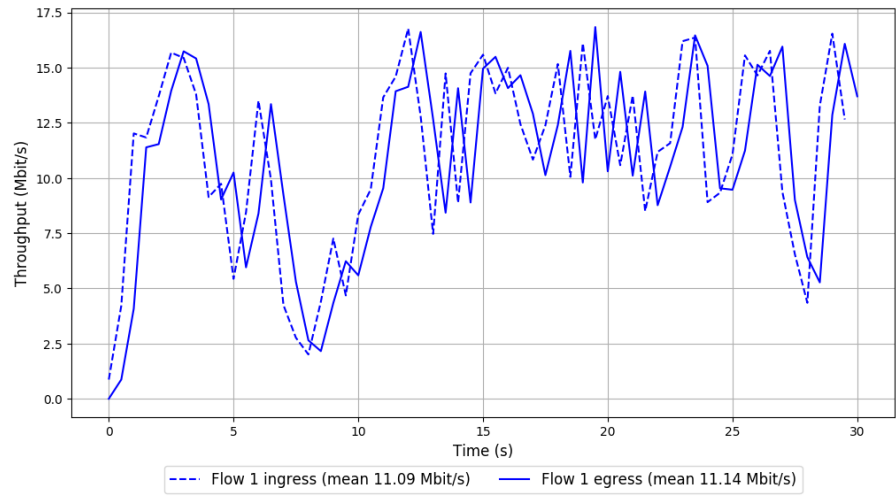
-- Flow 1:

Average throughput: 11.14 Mbit/s

95th percentile per-packet one-way delay: 77.956 ms

Loss rate: 0.02%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-08-26 16:59:11

End at: 2019-08-26 16:59:41

Local clock offset: 0.115 ms

Remote clock offset: 1.401 ms

Below is generated by plot.py at 2019-08-26 17:35:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.02 Mbit/s

95th percentile per-packet one-way delay: 86.022 ms

Loss rate: 0.00%

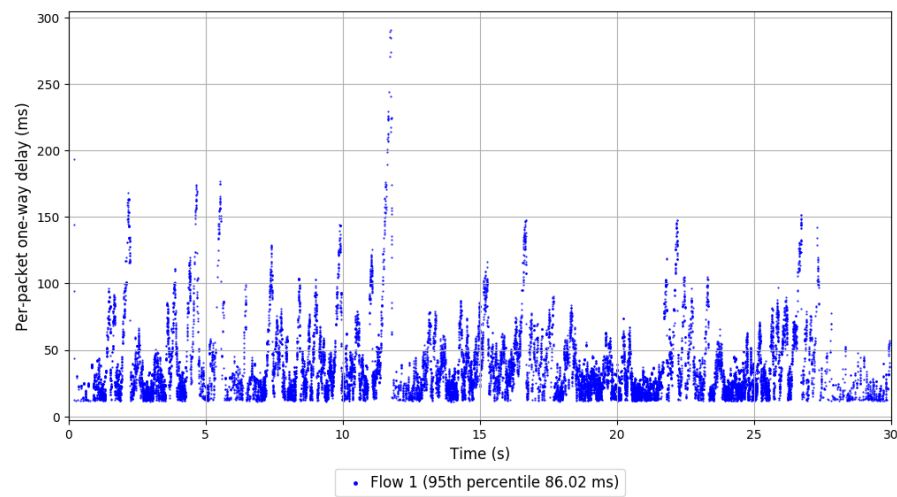
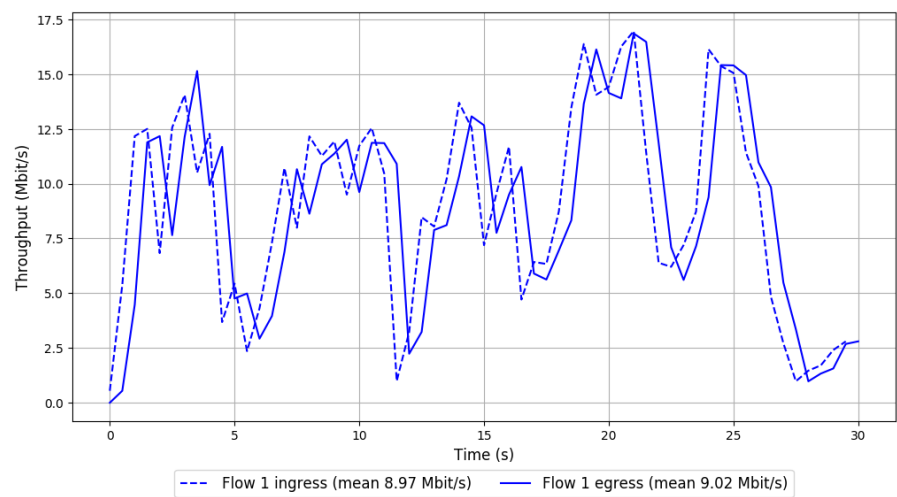
-- Flow 1:

Average throughput: 9.02 Mbit/s

95th percentile per-packet one-way delay: 86.022 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-08-26 17:28:42

End at: 2019-08-26 17:29:12

Local clock offset: -0.599 ms

Remote clock offset: 1.911 ms

Below is generated by plot.py at 2019-08-26 17:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.13 Mbit/s

95th percentile per-packet one-way delay: 72.197 ms

Loss rate: 0.06%

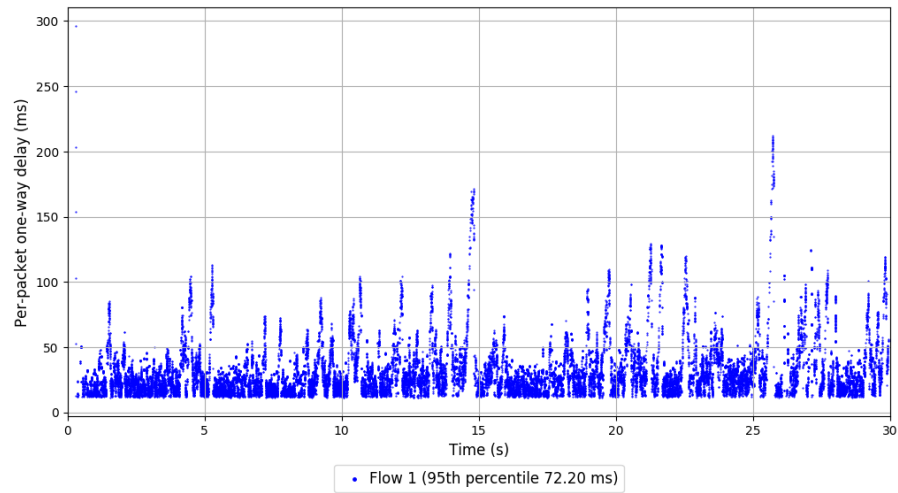
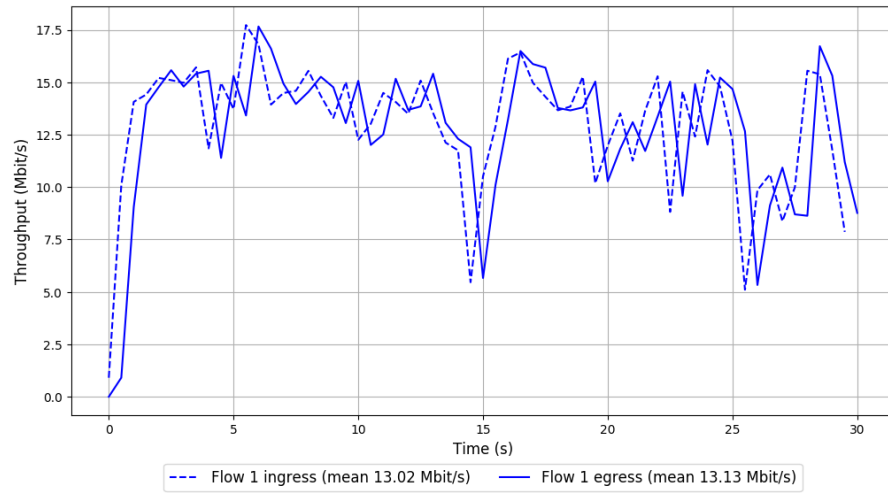
-- Flow 1:

Average throughput: 13.13 Mbit/s

95th percentile per-packet one-way delay: 72.197 ms

Loss rate: 0.06%

Run 3: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

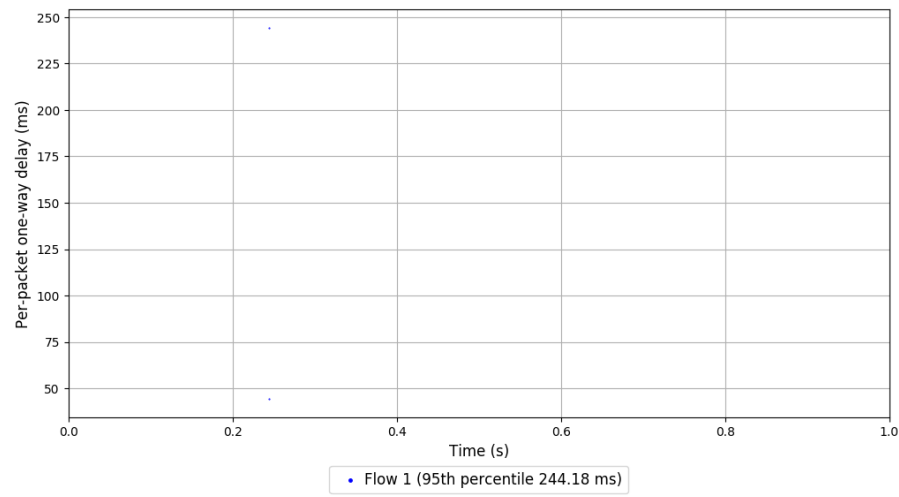
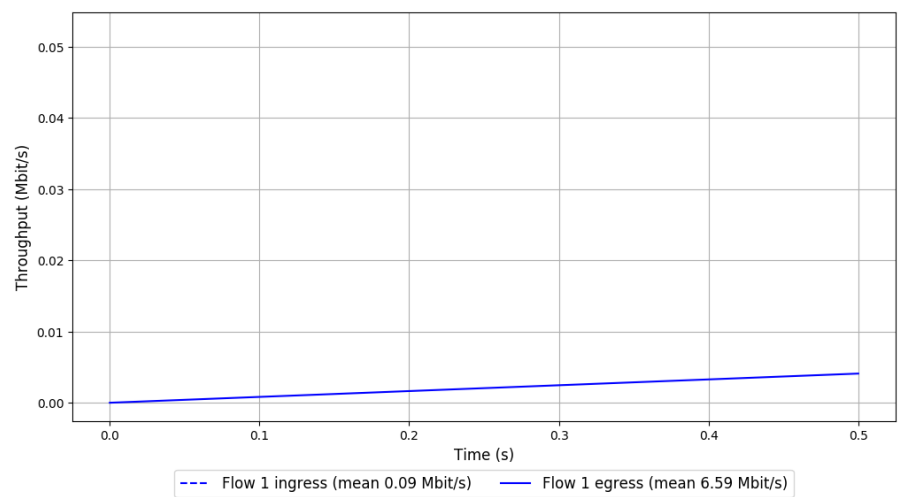
Start at: 2019-08-26 16:06:20

End at: 2019-08-26 16:06:50

Local clock offset: -5.626 ms

Remote clock offset: 2.138 ms

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



Run 2: Statistics of TaoVA-100x

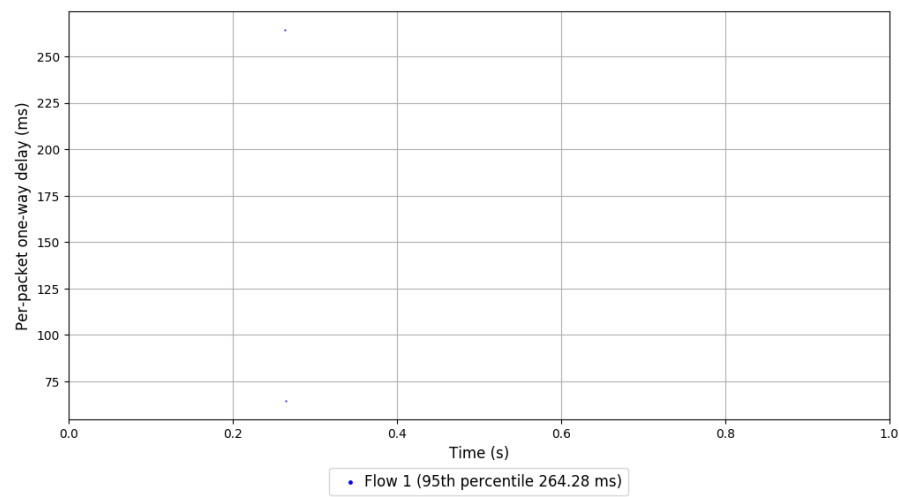
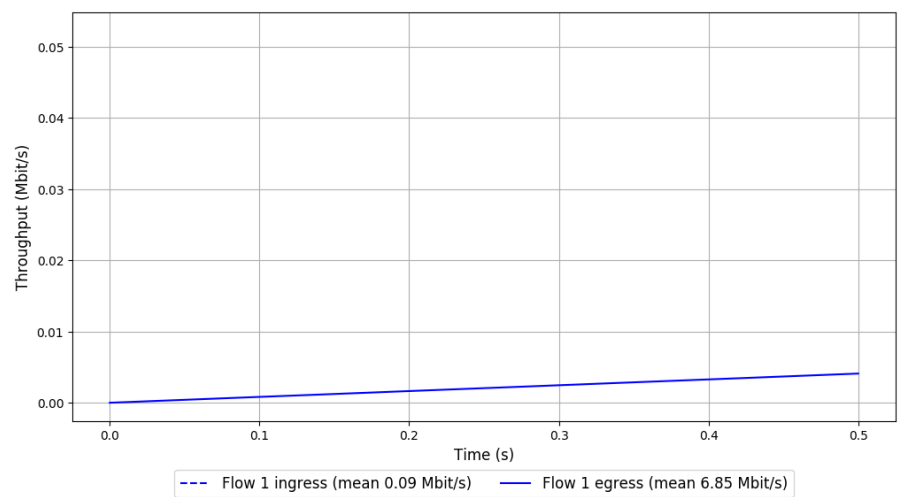
Start at: 2019-08-26 16:35:48

End at: 2019-08-26 16:36:18

Local clock offset: -0.428 ms

Remote clock offset: 0.814 ms

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



Run 3: Statistics of TaoVA-100x

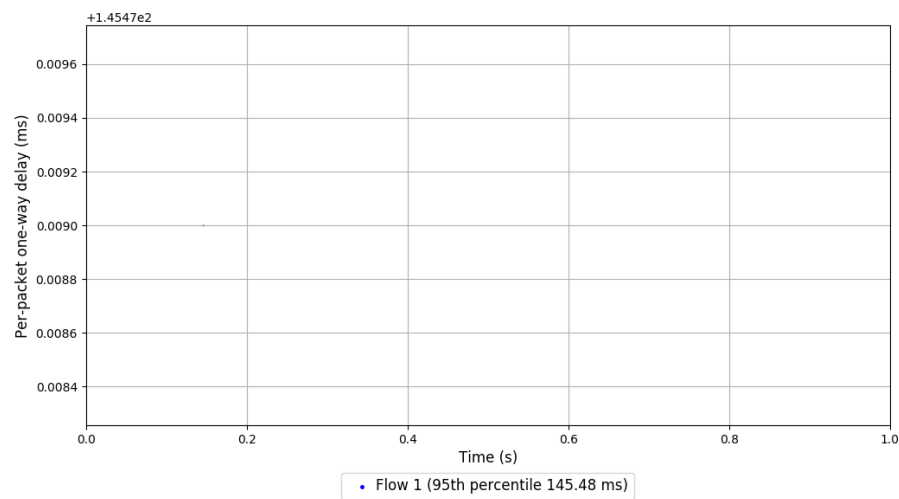
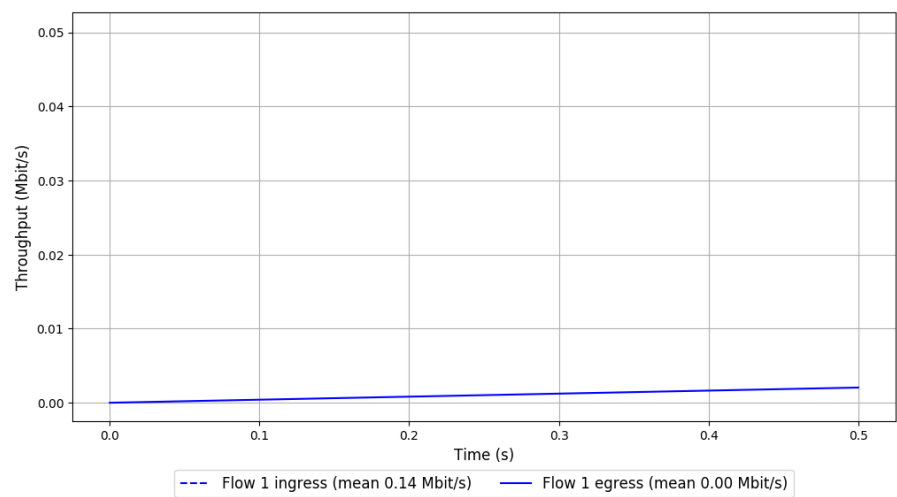
Start at: 2019-08-26 17:05:19

End at: 2019-08-26 17:05:49

Local clock offset: 0.307 ms

Remote clock offset: 1.361 ms

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



Run 1: Statistics of TCP Vegas

Start at: 2019-08-26 16:27:14

End at: 2019-08-26 16:27:44

Local clock offset: 1.732 ms

Remote clock offset: 1.031 ms

Below is generated by plot.py at 2019-08-26 17:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.36 Mbit/s

95th percentile per-packet one-way delay: 141.714 ms

Loss rate: 0.01%

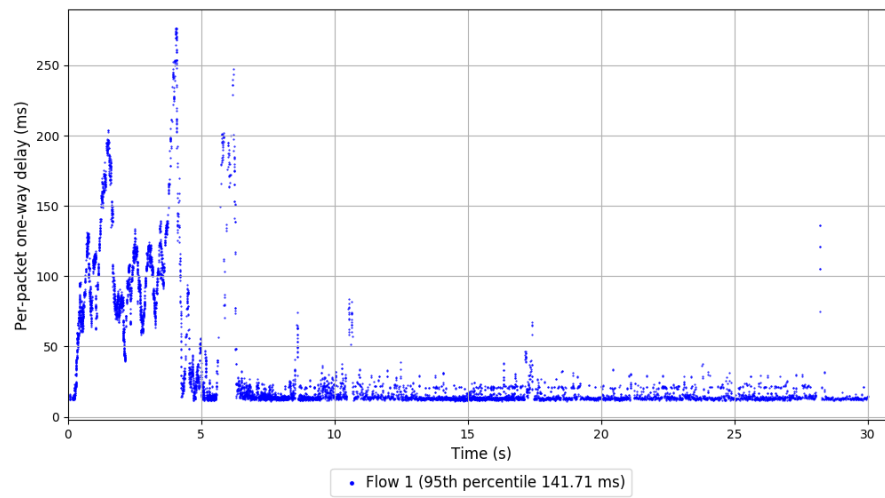
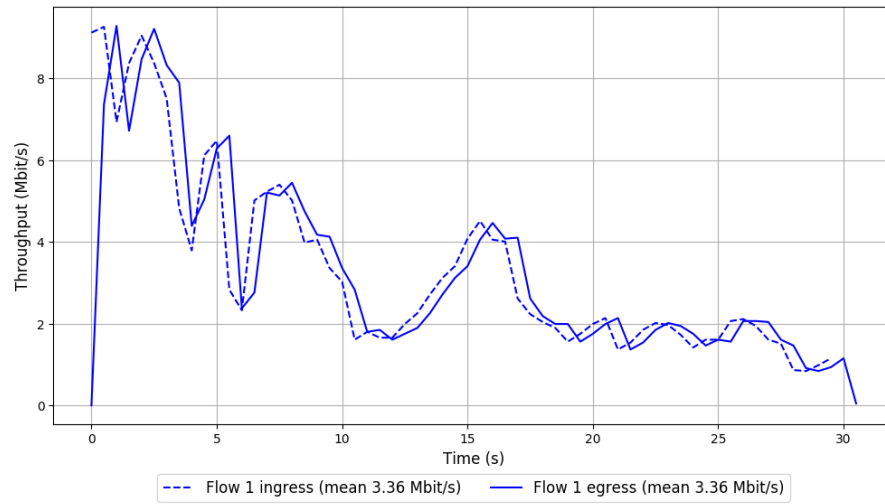
-- Flow 1:

Average throughput: 3.36 Mbit/s

95th percentile per-packet one-way delay: 141.714 ms

Loss rate: 0.01%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-08-26 16:56:44

End at: 2019-08-26 16:57:14

Local clock offset: -0.445 ms

Remote clock offset: 1.505 ms

Below is generated by plot.py at 2019-08-26 17:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.07 Mbit/s

95th percentile per-packet one-way delay: 304.885 ms

Loss rate: 0.03%

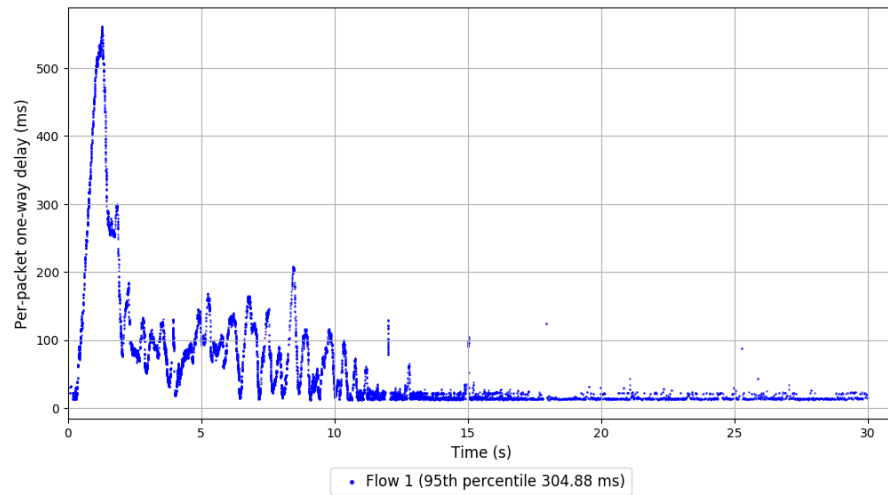
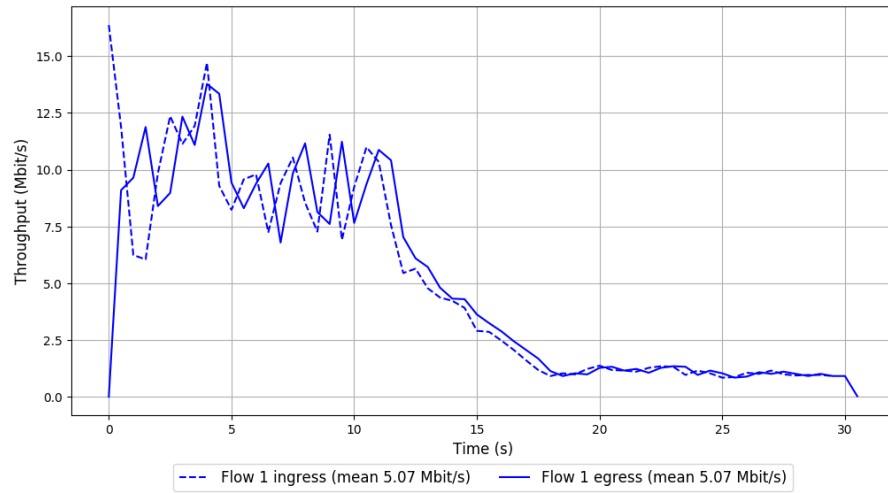
-- Flow 1:

Average throughput: 5.07 Mbit/s

95th percentile per-packet one-way delay: 304.885 ms

Loss rate: 0.03%

Run 2: Report of TCP Vegas — Data Link

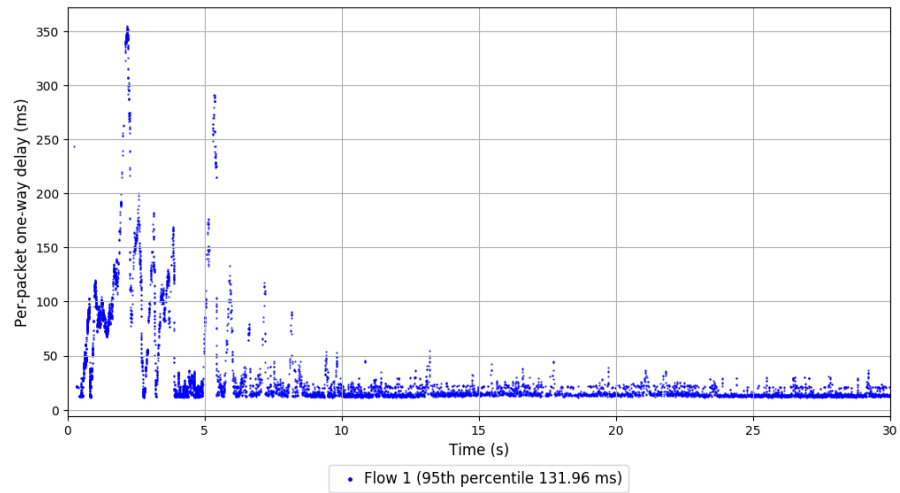
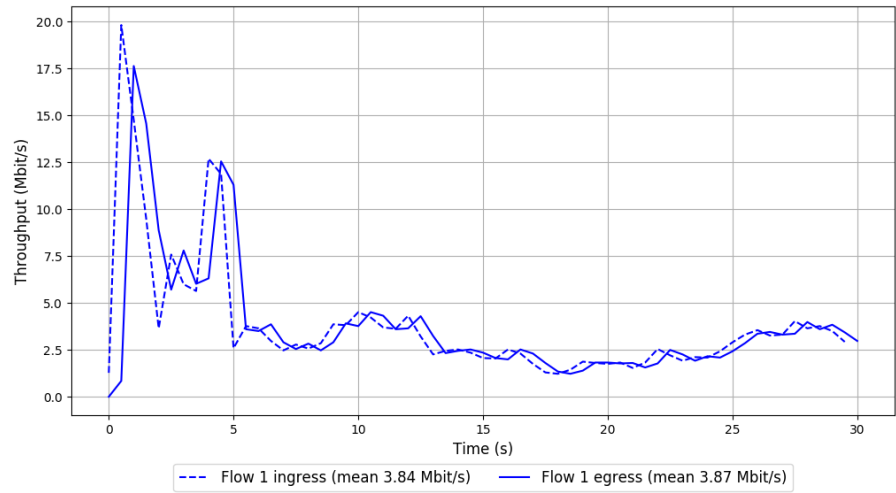


Run 3: Statistics of TCP Vegas

Start at: 2019-08-26 17:26:15
End at: 2019-08-26 17:26:45
Local clock offset: -0.535 ms
Remote clock offset: 1.813 ms

Below is generated by plot.py at 2019-08-26 17:35:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.87 Mbit/s
95th percentile per-packet one-way delay: 131.959 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 3.87 Mbit/s
95th percentile per-packet one-way delay: 131.959 ms
Loss rate: 0.06%

Run 3: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-08-26 16:10:01

End at: 2019-08-26 16:10:31

Local clock offset: -6.351 ms

Remote clock offset: 1.524 ms

Below is generated by plot.py at 2019-08-26 17:35:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.56 Mbit/s

95th percentile per-packet one-way delay: 363.329 ms

Loss rate: 0.59%

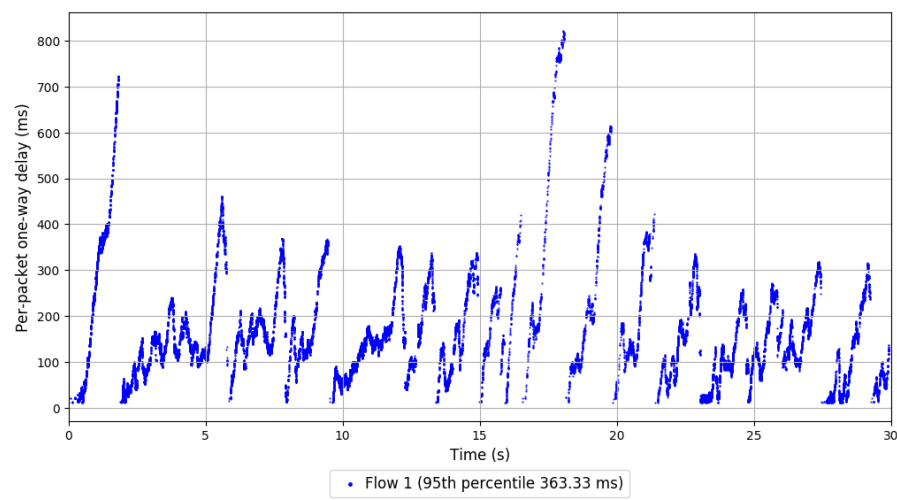
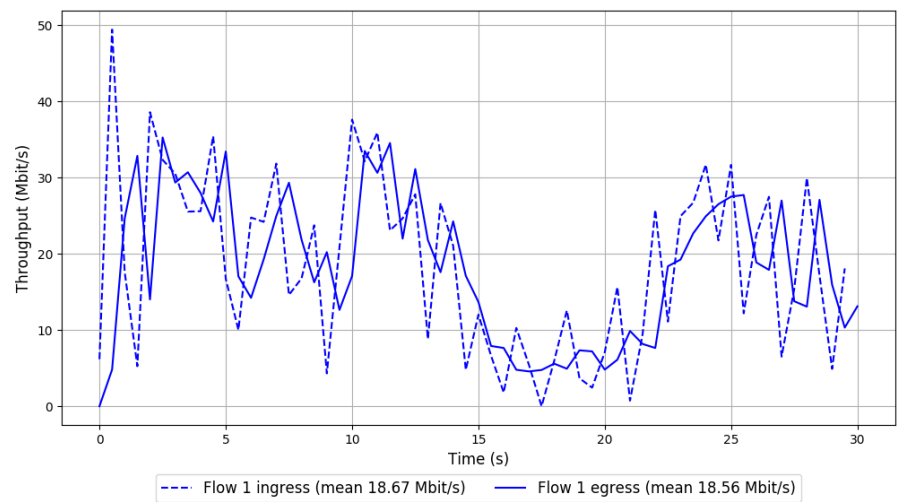
-- Flow 1:

Average throughput: 18.56 Mbit/s

95th percentile per-packet one-way delay: 363.329 ms

Loss rate: 0.59%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-08-26 16:39:34

End at: 2019-08-26 16:40:04

Local clock offset: -1.423 ms

Remote clock offset: 0.892 ms

Below is generated by plot.py at 2019-08-26 17:35:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.14 Mbit/s

95th percentile per-packet one-way delay: 449.258 ms

Loss rate: 0.55%

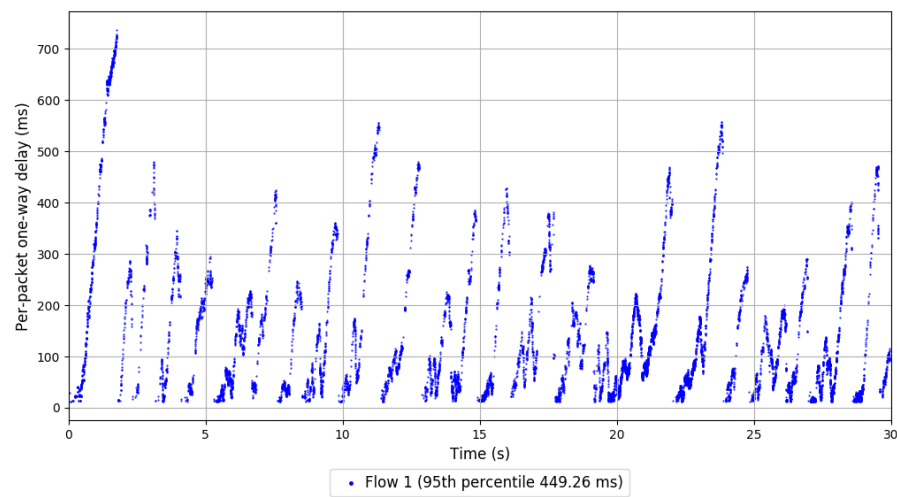
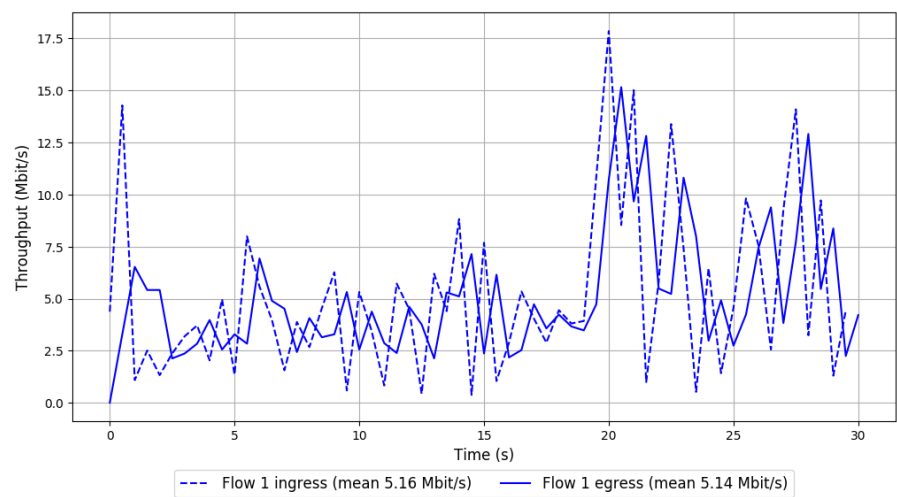
-- Flow 1:

Average throughput: 5.14 Mbit/s

95th percentile per-packet one-way delay: 449.258 ms

Loss rate: 0.55%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-08-26 17:08:59

End at: 2019-08-26 17:09:29

Local clock offset: 0.215 ms

Remote clock offset: 1.392 ms

Below is generated by plot.py at 2019-08-26 17:35:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.02 Mbit/s

95th percentile per-packet one-way delay: 414.285 ms

Loss rate: 1.76%

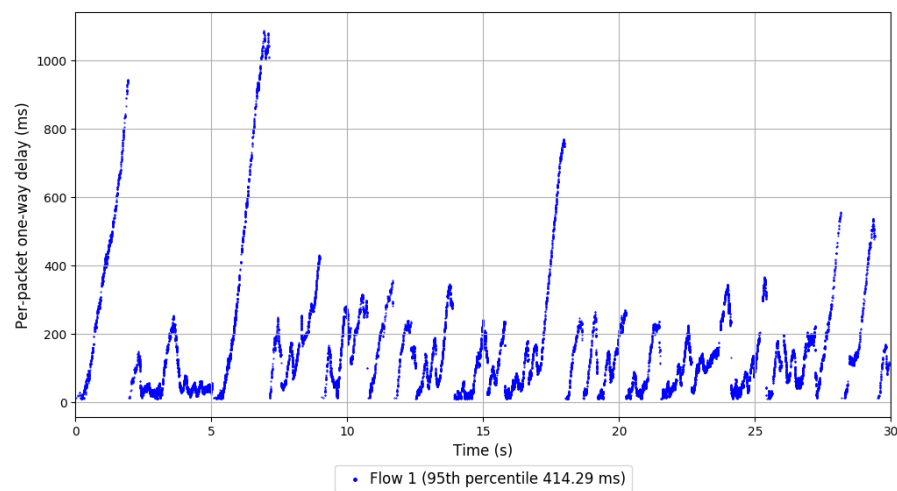
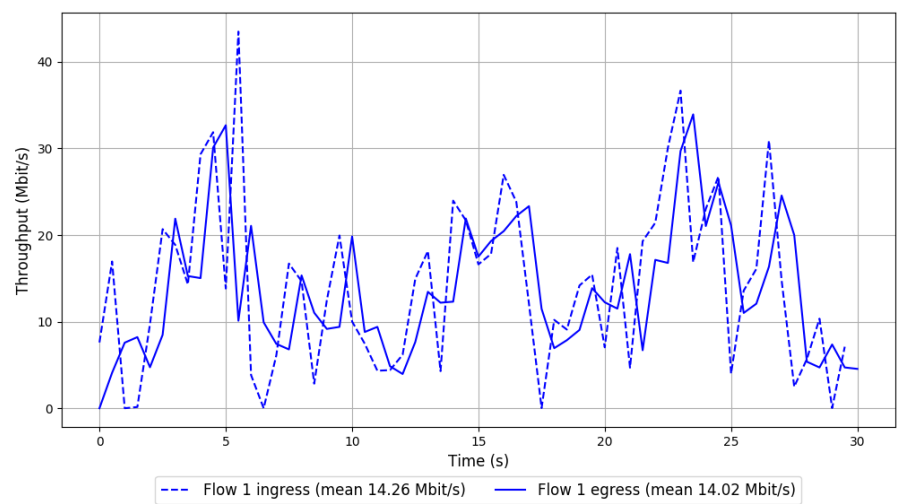
-- Flow 1:

Average throughput: 14.02 Mbit/s

95th percentile per-packet one-way delay: 414.285 ms

Loss rate: 1.76%

Run 3: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-08-26 16:24:46

End at: 2019-08-26 16:25:16

Local clock offset: 1.498 ms

Remote clock offset: 1.086 ms

Below is generated by plot.py at 2019-08-26 17:35:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.55 Mbit/s

95th percentile per-packet one-way delay: 73.637 ms

Loss rate: 0.54%

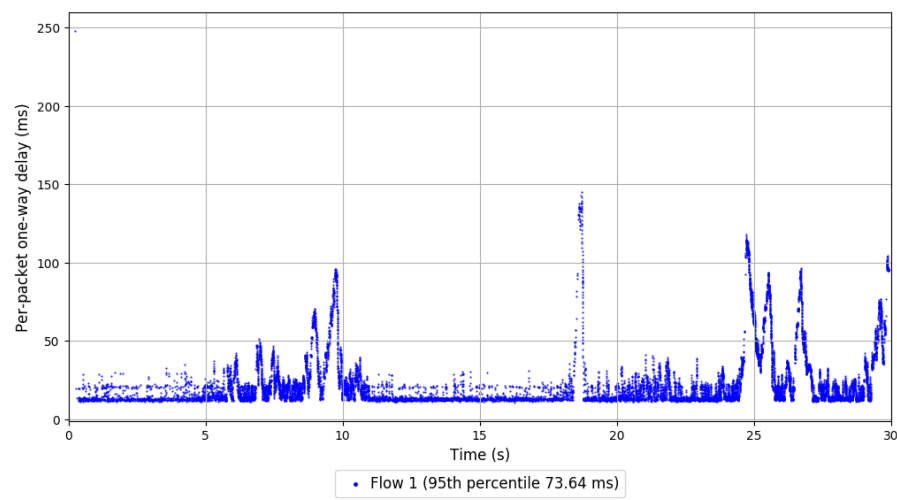
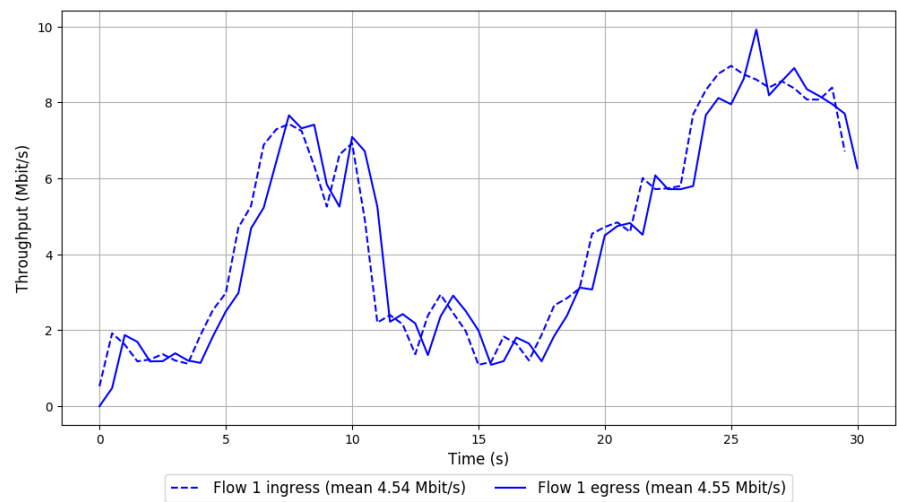
-- Flow 1:

Average throughput: 4.55 Mbit/s

95th percentile per-packet one-way delay: 73.637 ms

Loss rate: 0.54%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-08-26 16:54:17

End at: 2019-08-26 16:54:47

Local clock offset: -1.156 ms

Remote clock offset: 1.541 ms

Below is generated by plot.py at 2019-08-26 17:35:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.54 Mbit/s

95th percentile per-packet one-way delay: 223.831 ms

Loss rate: 0.11%

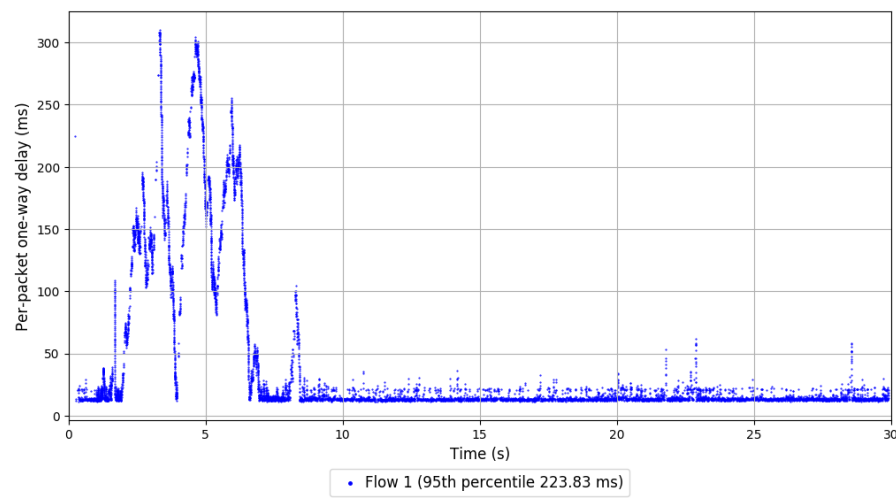
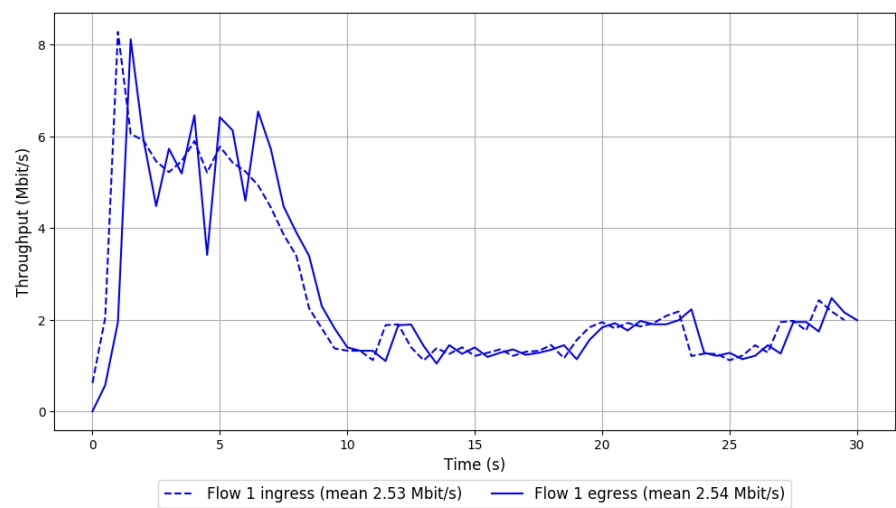
-- Flow 1:

Average throughput: 2.54 Mbit/s

95th percentile per-packet one-way delay: 223.831 ms

Loss rate: 0.11%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-08-26 17:23:47

End at: 2019-08-26 17:24:17

Local clock offset: -0.51 ms

Remote clock offset: 1.955 ms

Below is generated by plot.py at 2019-08-26 17:35:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 21.102 ms

Loss rate: 0.02%

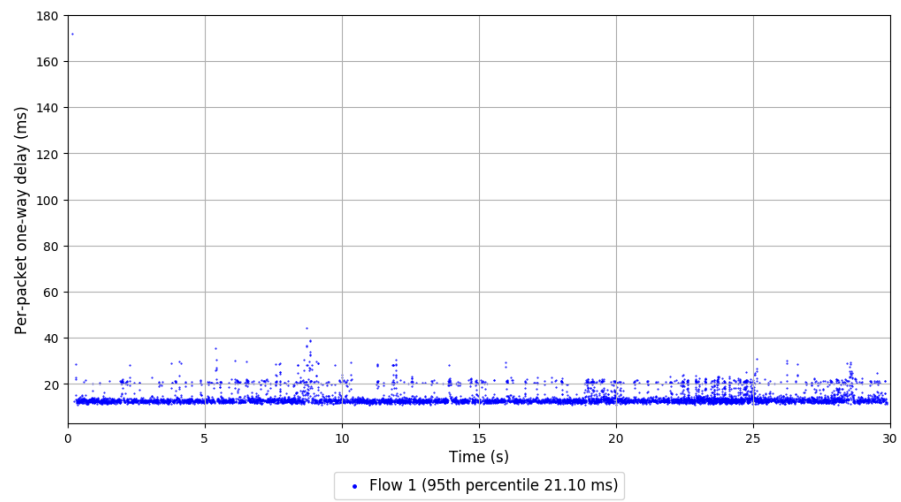
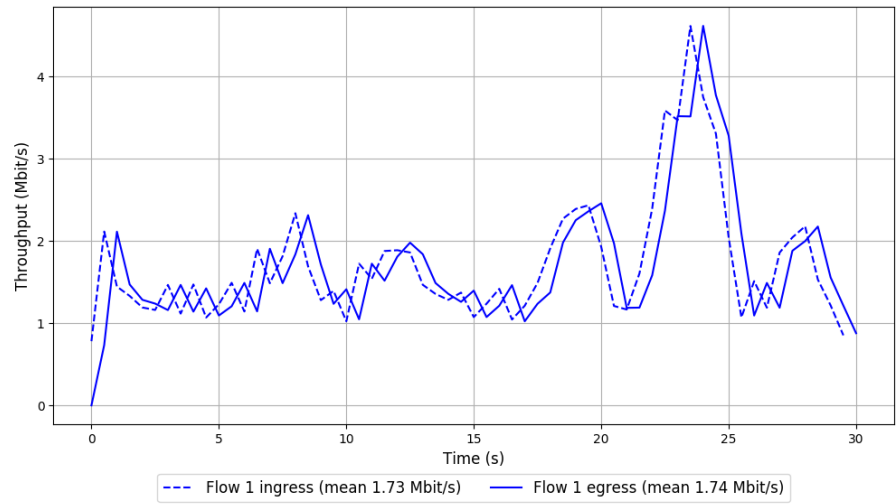
-- Flow 1:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 21.102 ms

Loss rate: 0.02%

Run 3: Report of PCC-Vivace — Data Link

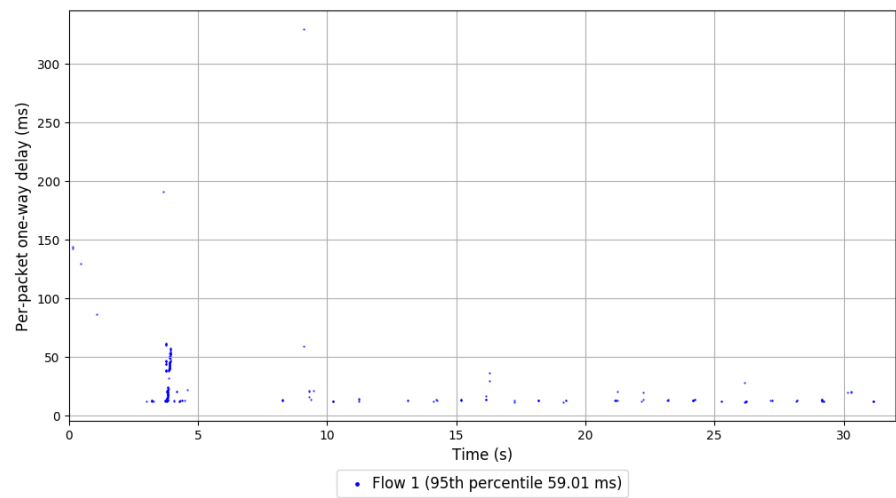
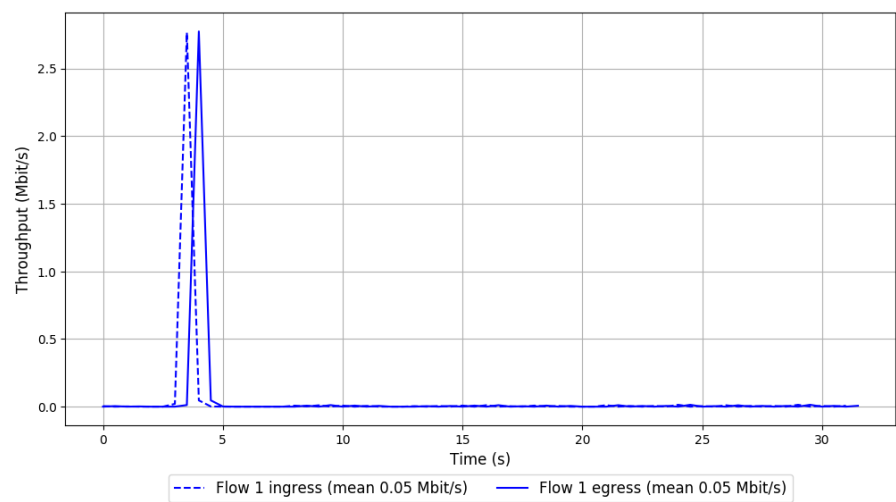


```
Run 1: Statistics of WebRTC media

Start at: 2019-08-26 16:34:35
End at: 2019-08-26 16:35:05
Local clock offset: -0.03 ms
Remote clock offset: 0.862 ms

# Below is generated by plot.py at 2019-08-26 17:35:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 59.010 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 59.010 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-08-26 17:04:06

End at: 2019-08-26 17:04:36

Local clock offset: 0.363 ms

Remote clock offset: 1.398 ms

Below is generated by plot.py at 2019-08-26 17:35:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 29.169 ms

Loss rate: 0.00%

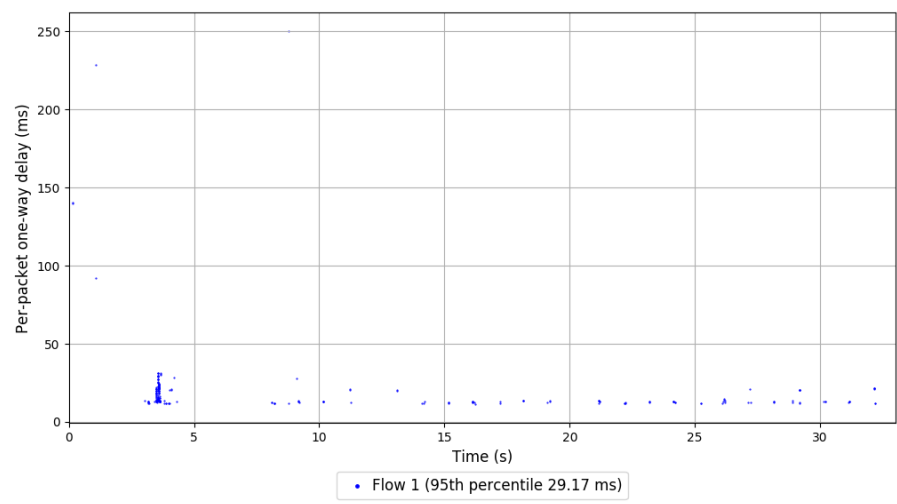
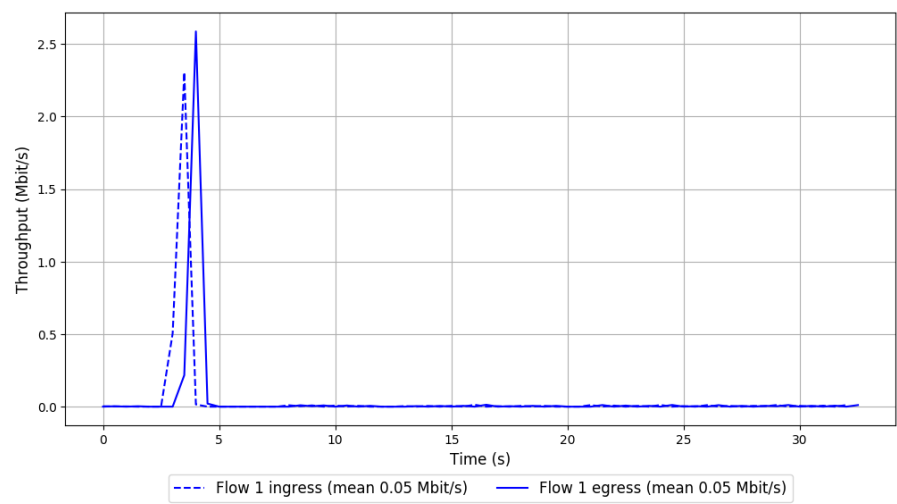
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 29.169 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-08-26 17:33:37

End at: 2019-08-26 17:34:07

Local clock offset: -0.773 ms

Remote clock offset: 1.842 ms

Below is generated by plot.py at 2019-08-26 17:35:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 30.843 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 30.843 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

