

Pantheon Report

Generated at 2019-02-12 00:52:11 (UTC).

Data path: Colombia on **p4p1** (*remote*) → AWS Brazil 2 on **ens5** (*local*).

Repeated the test of 21 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

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

System info:

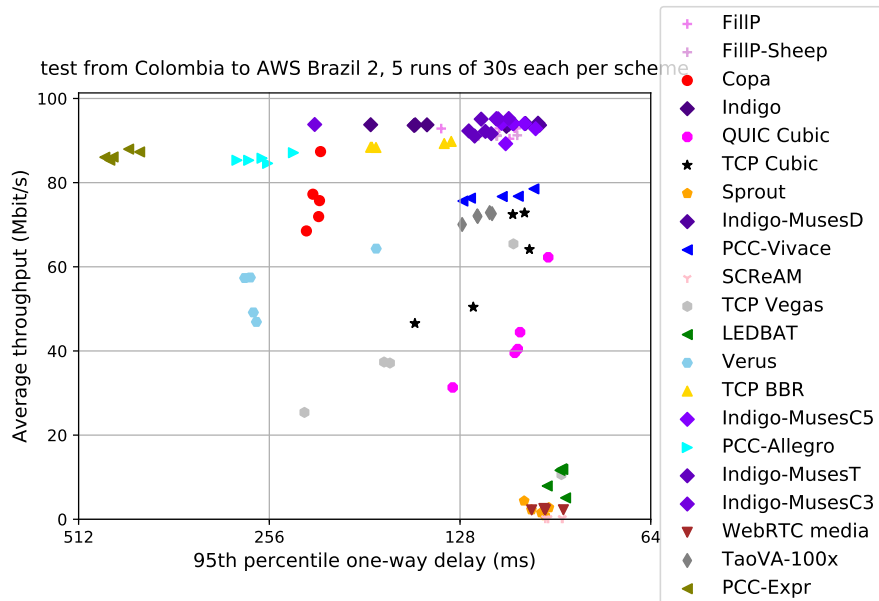
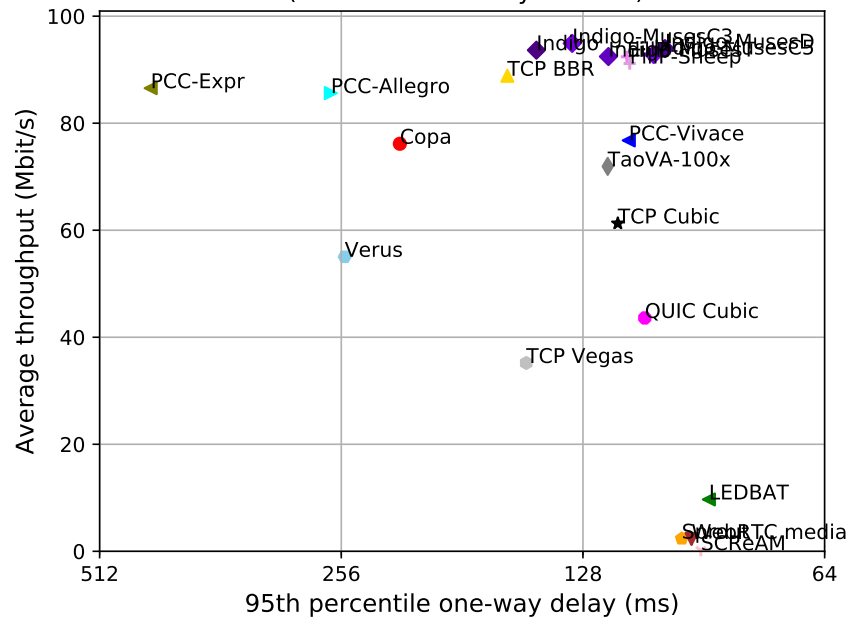
```
Linux 4.15.0-1031-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

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

third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	88.86	158.99	0.68
Copa	5	76.16	216.41	0.88
TCP Cubic	5	61.27	115.83	0.73
FillP	5	92.40	112.84	0.73
FillP-Sheep	5	91.15	111.93	0.66
Indigo	5	93.64	146.30	1.30
Indigo-MusesC3	5	94.91	132.01	6.08
Indigo-MusesC5	5	92.84	104.53	3.47
Indigo-MusesD	5	93.94	101.17	0.56
Indigo-MusesT	5	92.46	118.99	7.57
LEDBAT	5	9.69	89.21	1.21
PCC-Allegro	5	85.62	263.78	0.76
PCC-Expr	5	86.55	442.26	1.40
QUIC Cubic	5	43.61	107.20	0.65
SCReAM	5	0.22	91.29	0.59
Sprout	5	2.37	96.42	0.75
TaoVA-100x	5	71.93	119.23	0.68
TCP Vegas	5	35.19	150.63	0.62
Verus	5	55.03	253.50	1.01
PCC-Vivace	5	76.79	112.24	0.65
WebRTC media	5	2.30	93.76	0.47

Run 1: Statistics of TCP BBR

Start at: 2019-02-11 22:47:39

End at: 2019-02-11 22:48:09

Local clock offset: -0.083 ms

Remote clock offset: 4.129 ms

Below is generated by plot.py at 2019-02-12 00:41:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.41 Mbit/s

95th percentile per-packet one-way delay: 177.156 ms

Loss rate: 0.82%

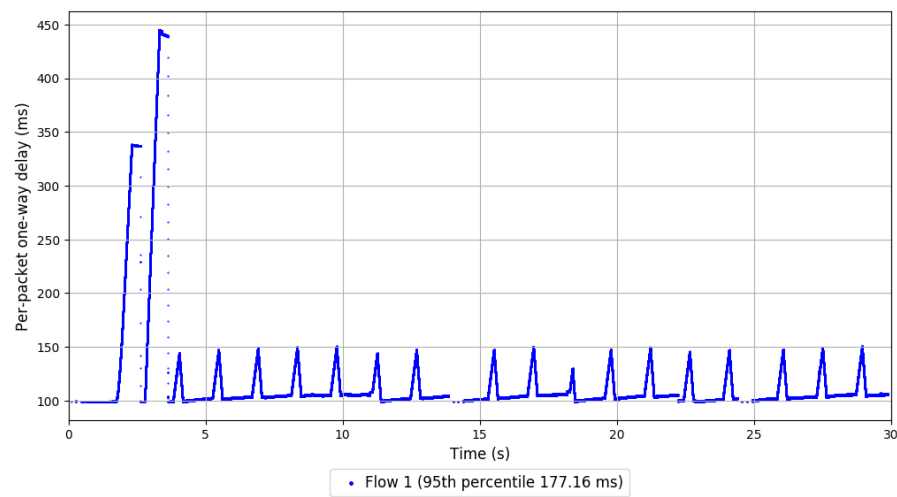
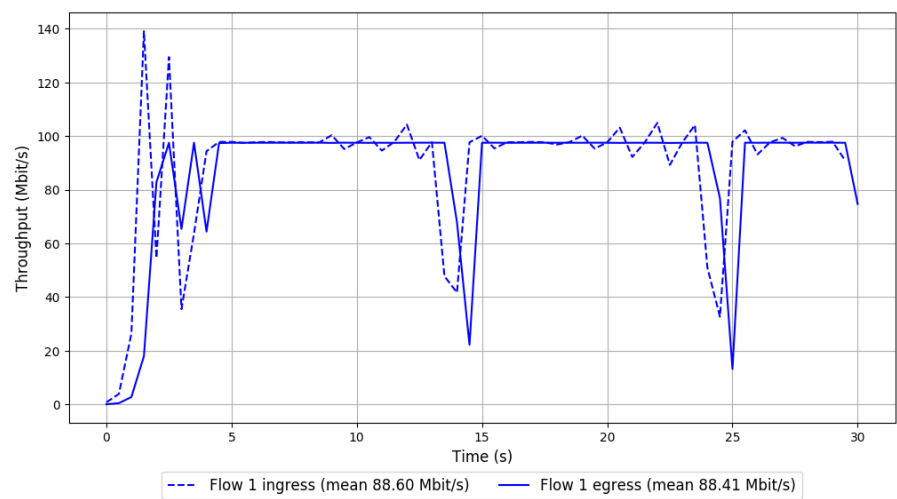
-- Flow 1:

Average throughput: 88.41 Mbit/s

95th percentile per-packet one-way delay: 177.156 ms

Loss rate: 0.82%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-02-11 23:12:37

End at: 2019-02-11 23:13:07

Local clock offset: -4.431 ms

Remote clock offset: 9.024 ms

Below is generated by plot.py at 2019-02-12 00:41:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.36 Mbit/s

95th percentile per-packet one-way delay: 173.740 ms

Loss rate: 0.15%

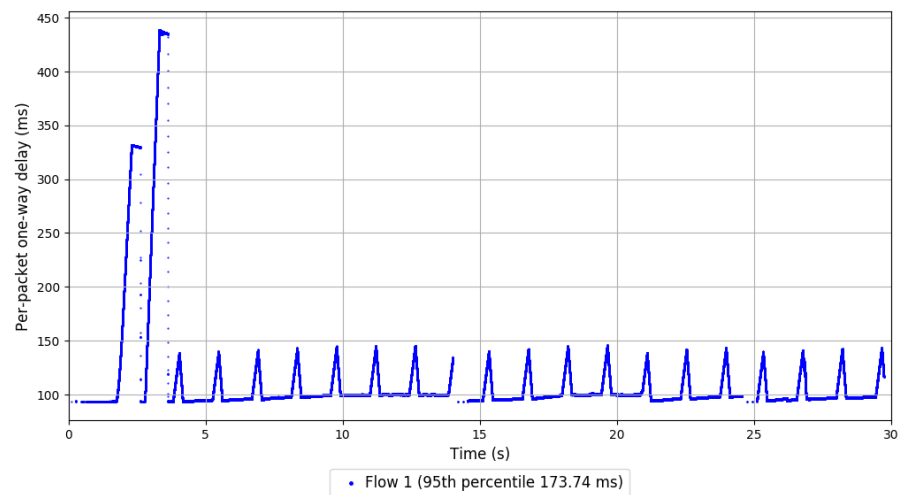
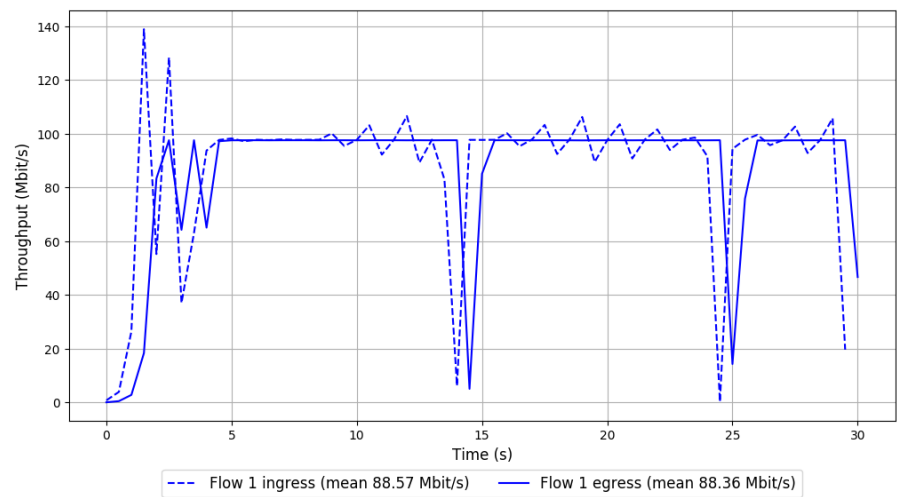
-- Flow 1:

Average throughput: 88.36 Mbit/s

95th percentile per-packet one-way delay: 173.740 ms

Loss rate: 0.15%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-02-11 23:38:59

End at: 2019-02-11 23:39:29

Local clock offset: -7.592 ms

Remote clock offset: 8.657 ms

Below is generated by plot.py at 2019-02-12 00:41:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.30 Mbit/s

95th percentile per-packet one-way delay: 135.566 ms

Loss rate: 0.78%

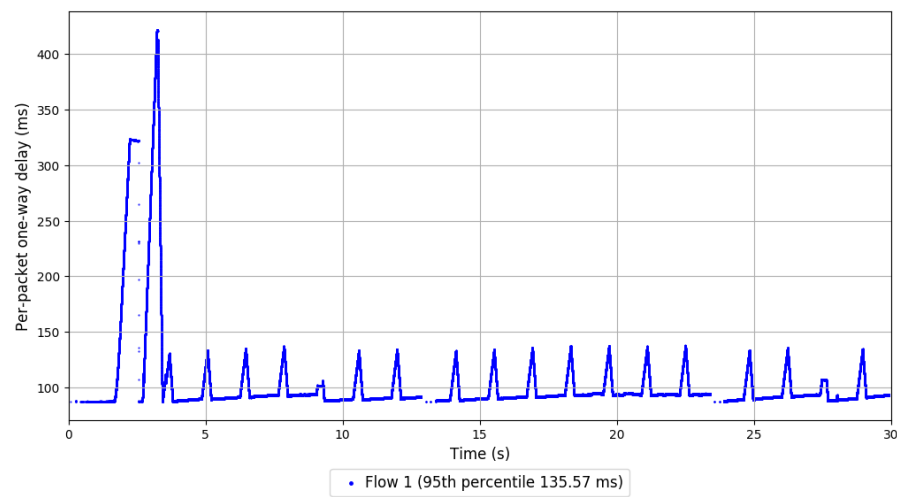
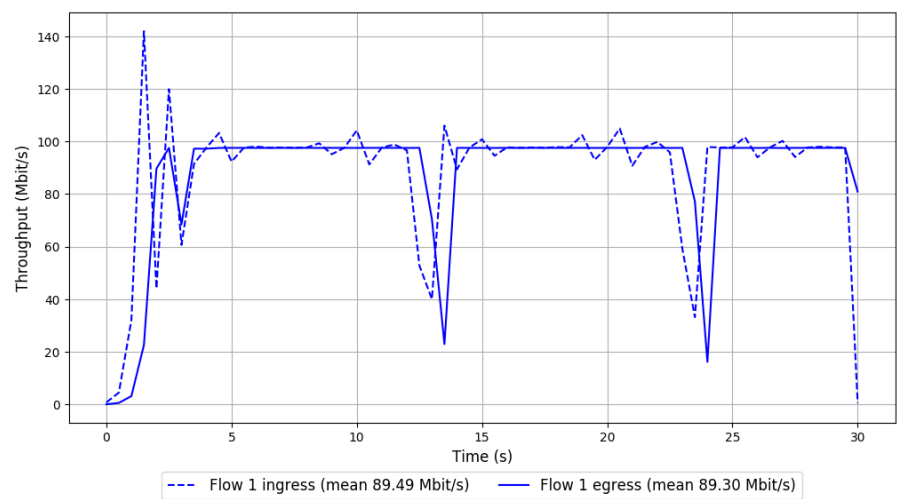
-- Flow 1:

Average throughput: 89.30 Mbit/s

95th percentile per-packet one-way delay: 135.566 ms

Loss rate: 0.78%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-02-12 00:04:43

End at: 2019-02-12 00:05:13

Local clock offset: -7.4 ms

Remote clock offset: 8.169 ms

Below is generated by plot.py at 2019-02-12 00:41:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.80 Mbit/s

95th percentile per-packet one-way delay: 132.170 ms

Loss rate: 0.86%

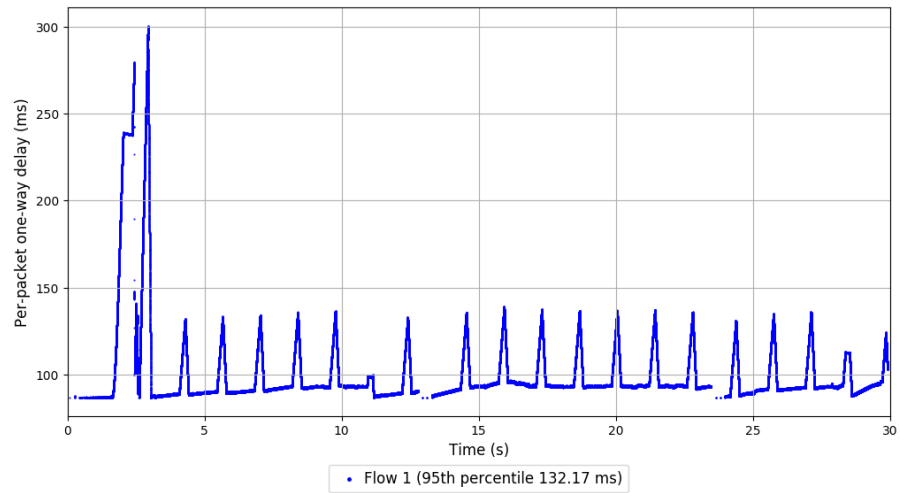
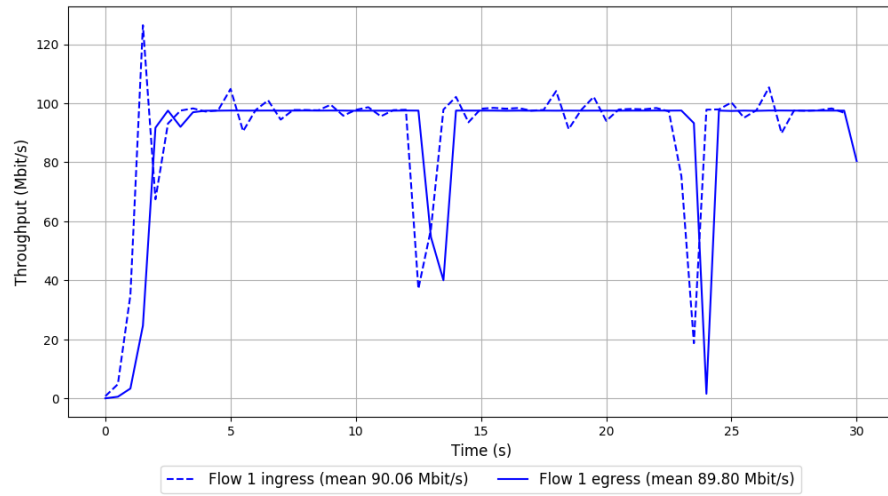
-- Flow 1:

Average throughput: 89.80 Mbit/s

95th percentile per-packet one-way delay: 132.170 ms

Loss rate: 0.86%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-02-12 00:30:41

End at: 2019-02-12 00:31:11

Local clock offset: -6.303 ms

Remote clock offset: 3.505 ms

Below is generated by plot.py at 2019-02-12 00:41:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.45 Mbit/s

95th percentile per-packet one-way delay: 176.320 ms

Loss rate: 0.80%

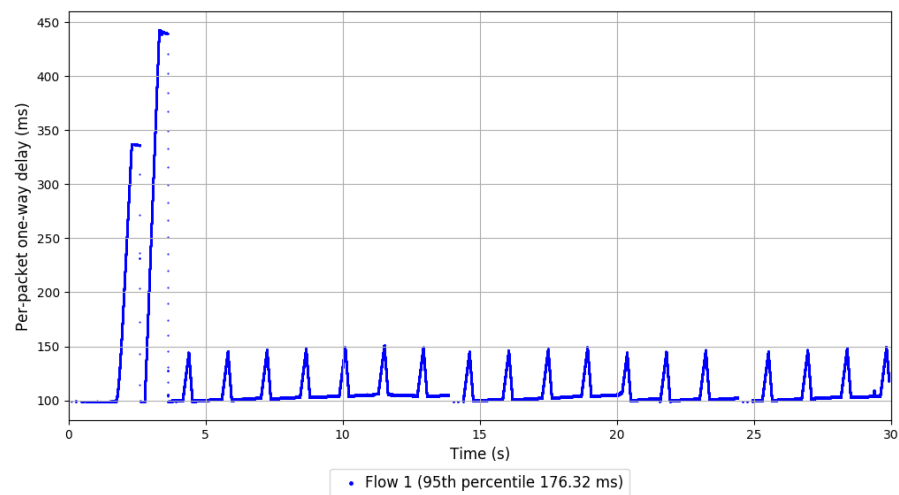
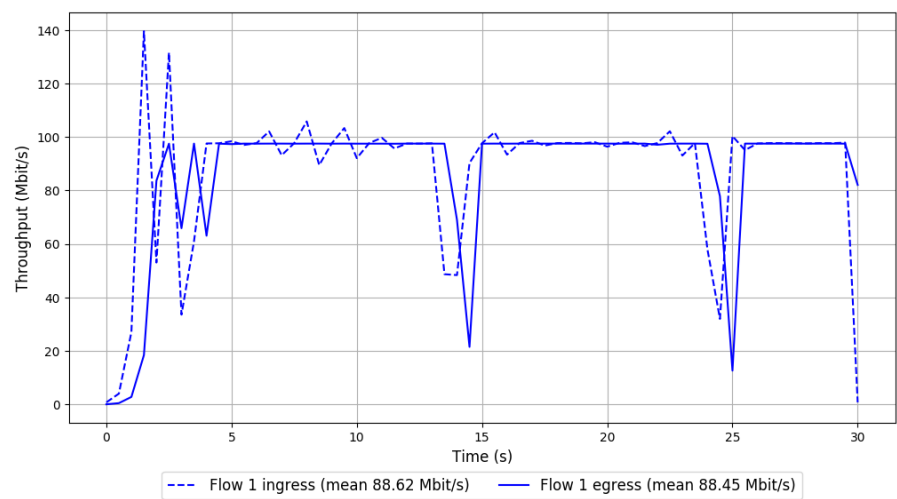
-- Flow 1:

Average throughput: 88.45 Mbit/s

95th percentile per-packet one-way delay: 176.320 ms

Loss rate: 0.80%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-02-11 22:31:01

End at: 2019-02-11 22:31:31

Local clock offset: -1.77 ms

Remote clock offset: 3.994 ms

Below is generated by plot.py at 2019-02-12 00:42:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.38 Mbit/s

95th percentile per-packet one-way delay: 212.513 ms

Loss rate: 1.08%

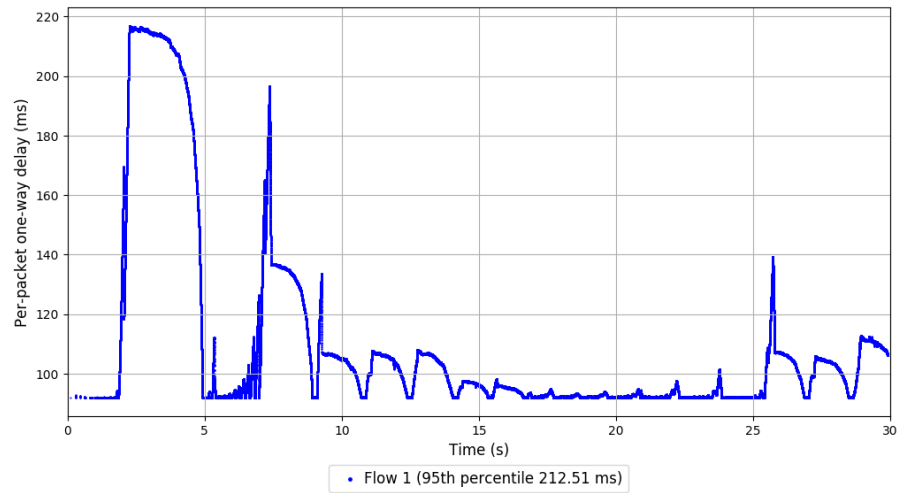
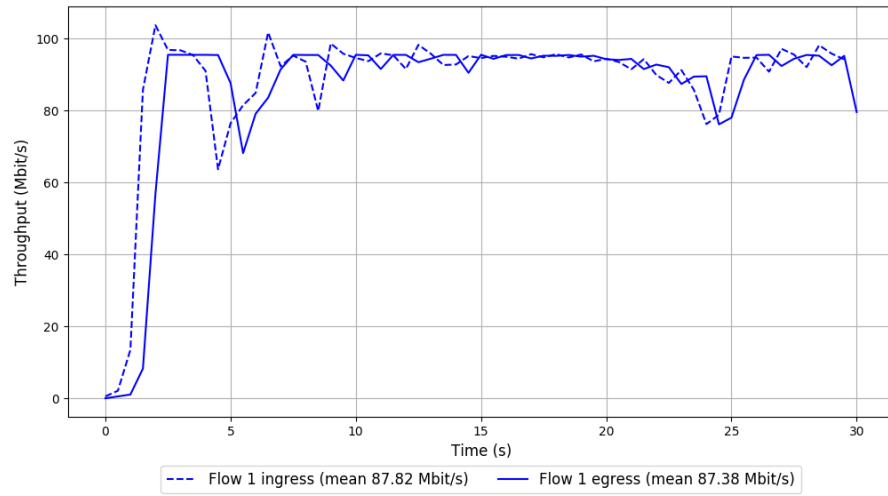
-- Flow 1:

Average throughput: 87.38 Mbit/s

95th percentile per-packet one-way delay: 212.513 ms

Loss rate: 1.08%

Run 1: Report of Copa — Data Link

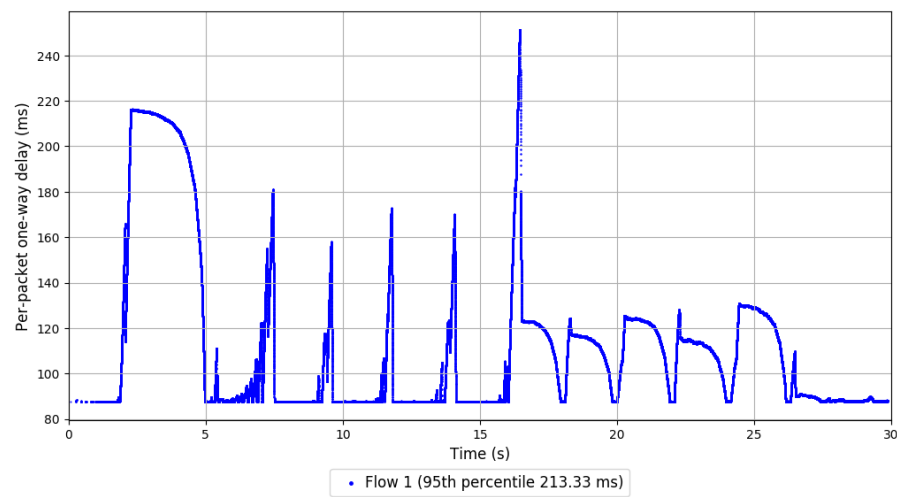
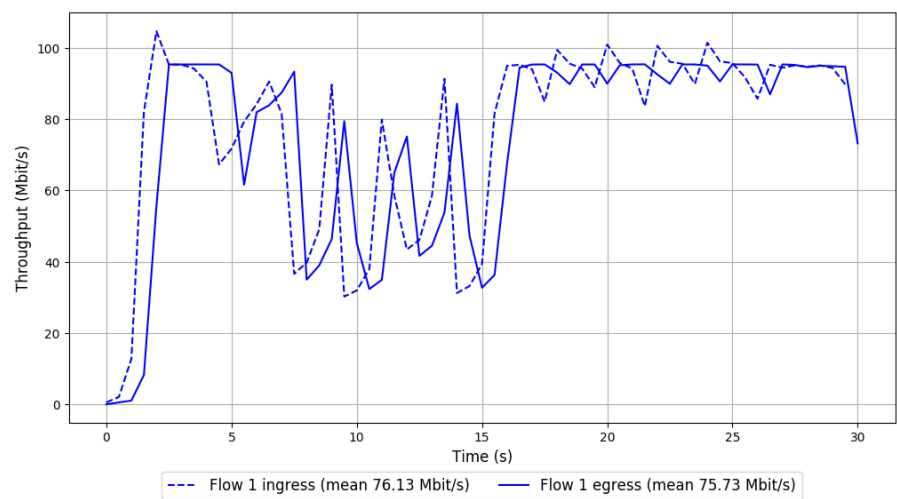


Run 2: Statistics of Copa

Start at: 2019-02-11 22:56:03
End at: 2019-02-11 22:56:33
Local clock offset: -0.357 ms
Remote clock offset: 9.461 ms

Below is generated by plot.py at 2019-02-12 00:42:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 75.73 Mbit/s
95th percentile per-packet one-way delay: 213.329 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 75.73 Mbit/s
95th percentile per-packet one-way delay: 213.329 ms
Loss rate: 1.11%

Run 2: Report of Copa — Data Link

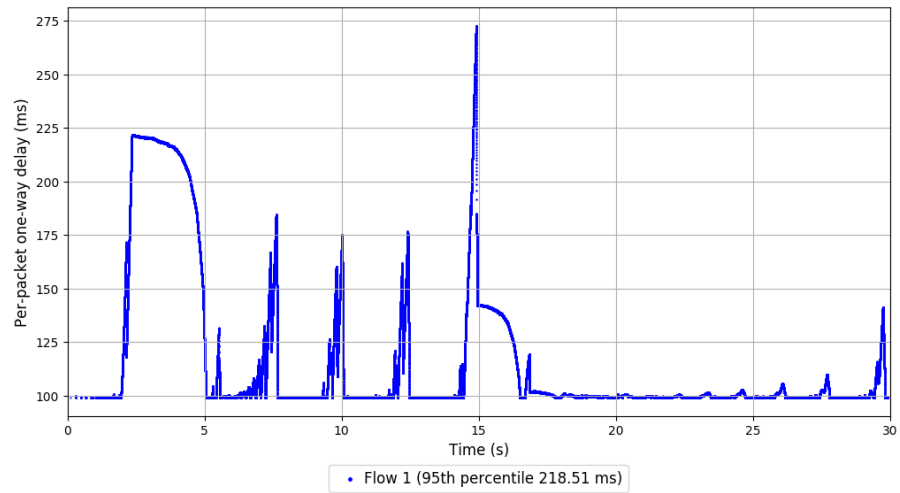
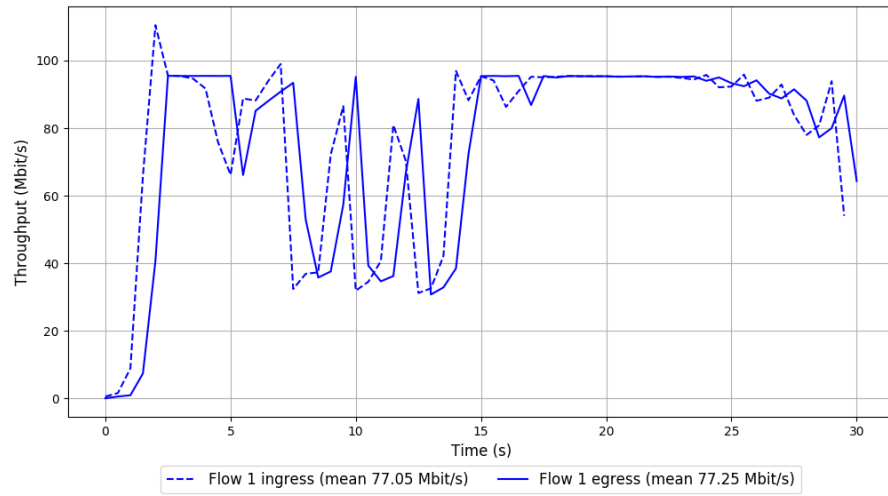


Run 3: Statistics of Copa

Start at: 2019-02-11 23:21:05
End at: 2019-02-11 23:21:35
Local clock offset: -5.813 ms
Remote clock offset: 3.845 ms

Below is generated by plot.py at 2019-02-12 00:42:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.25 Mbit/s
95th percentile per-packet one-way delay: 218.513 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 77.25 Mbit/s
95th percentile per-packet one-way delay: 218.513 ms
Loss rate: 0.35%

Run 3: Report of Copa — Data Link

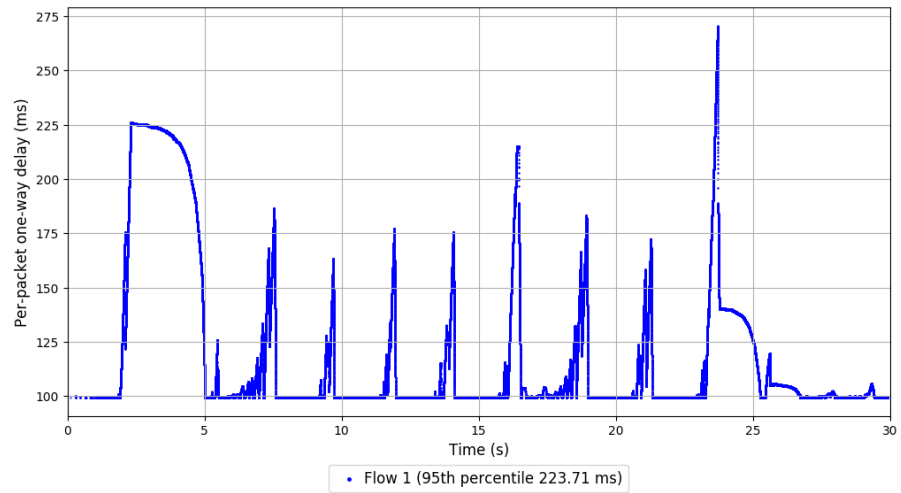
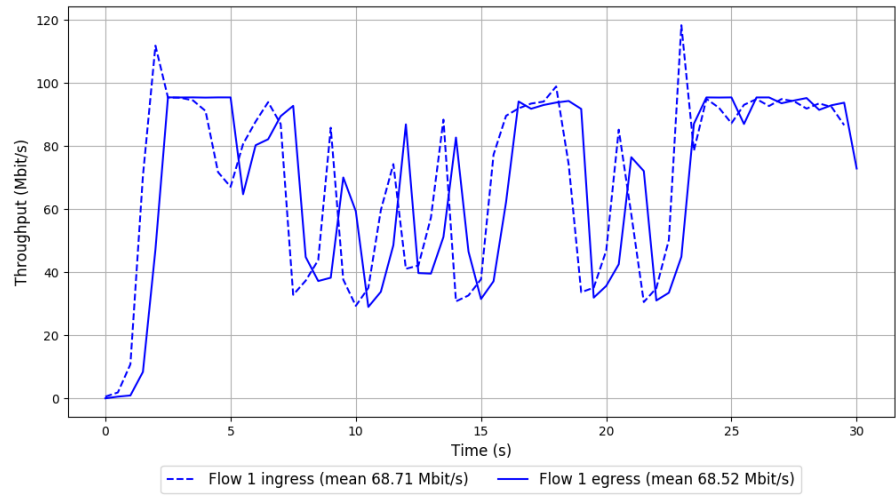


Run 4: Statistics of Copa

Start at: 2019-02-11 23:47:49
End at: 2019-02-11 23:48:19
Local clock offset: -6.362 ms
Remote clock offset: 3.407 ms

Below is generated by plot.py at 2019-02-12 00:42:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 68.52 Mbit/s
95th percentile per-packet one-way delay: 223.714 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 68.52 Mbit/s
95th percentile per-packet one-way delay: 223.714 ms
Loss rate: 0.87%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-02-12 00:13:34

End at: 2019-02-12 00:14:04

Local clock offset: -6.932 ms

Remote clock offset: 8.537 ms

Below is generated by plot.py at 2019-02-12 00:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.93 Mbit/s

95th percentile per-packet one-way delay: 213.987 ms

Loss rate: 0.98%

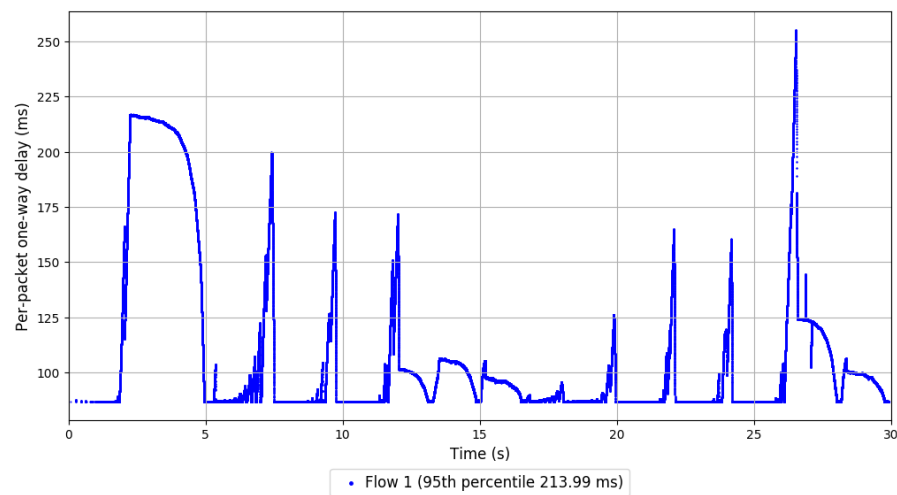
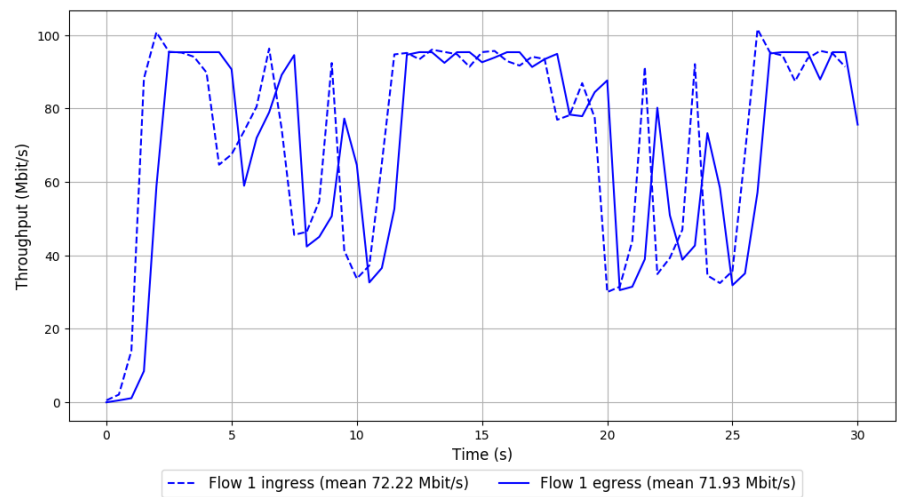
-- Flow 1:

Average throughput: 71.93 Mbit/s

95th percentile per-packet one-way delay: 213.987 ms

Loss rate: 0.98%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-02-11 22:52:26

End at: 2019-02-11 22:52:56

Local clock offset: -0.589 ms

Remote clock offset: 9.344 ms

Below is generated by plot.py at 2019-02-12 00:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.82 Mbit/s

95th percentile per-packet one-way delay: 101.240 ms

Loss rate: 0.64%

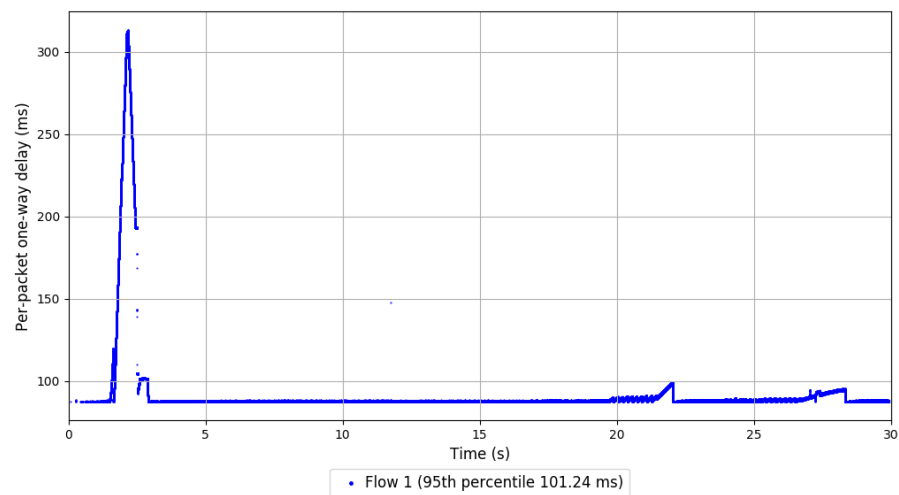
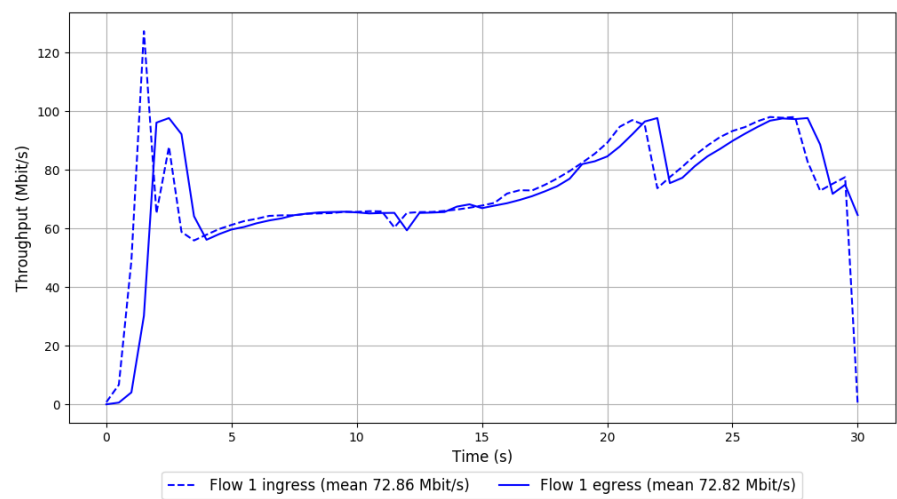
-- Flow 1:

Average throughput: 72.82 Mbit/s

95th percentile per-packet one-way delay: 101.240 ms

Loss rate: 0.64%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-02-11 23:17:25

End at: 2019-02-11 23:17:55

Local clock offset: -5.848 ms

Remote clock offset: 9.009 ms

Below is generated by plot.py at 2019-02-12 00:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.42 Mbit/s

95th percentile per-packet one-way delay: 121.979 ms

Loss rate: 0.39%

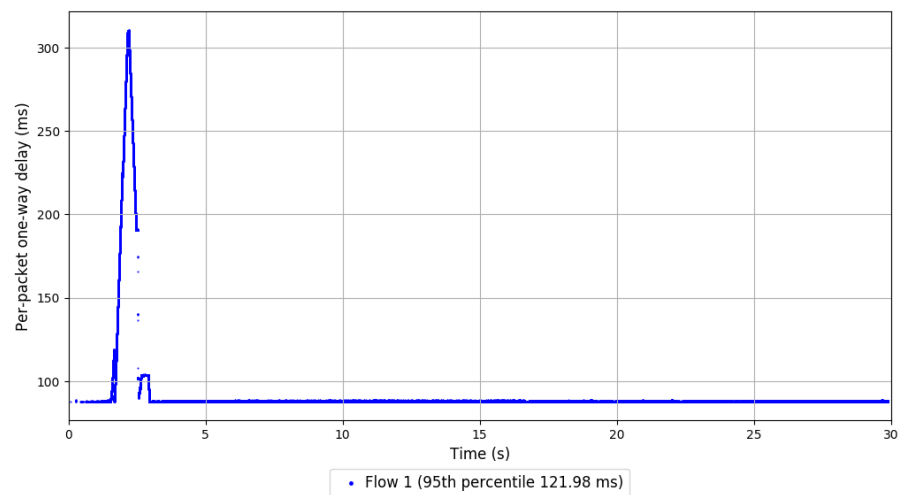
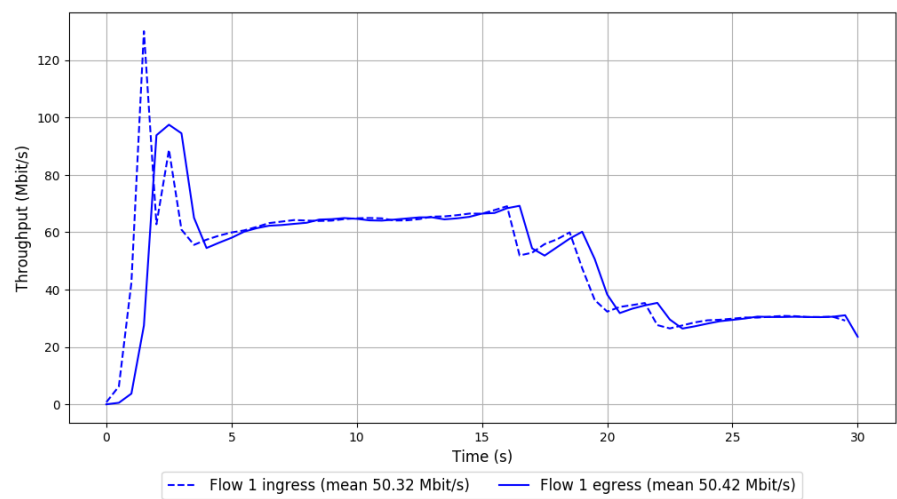
-- Flow 1:

Average throughput: 50.42 Mbit/s

95th percentile per-packet one-way delay: 121.979 ms

Loss rate: 0.39%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2019-02-11 23:44:05

End at: 2019-02-11 23:44:35

Local clock offset: -7.184 ms

Remote clock offset: 3.617 ms

Below is generated by plot.py at 2019-02-12 00:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.44 Mbit/s

95th percentile per-packet one-way delay: 105.663 ms

Loss rate: 0.64%

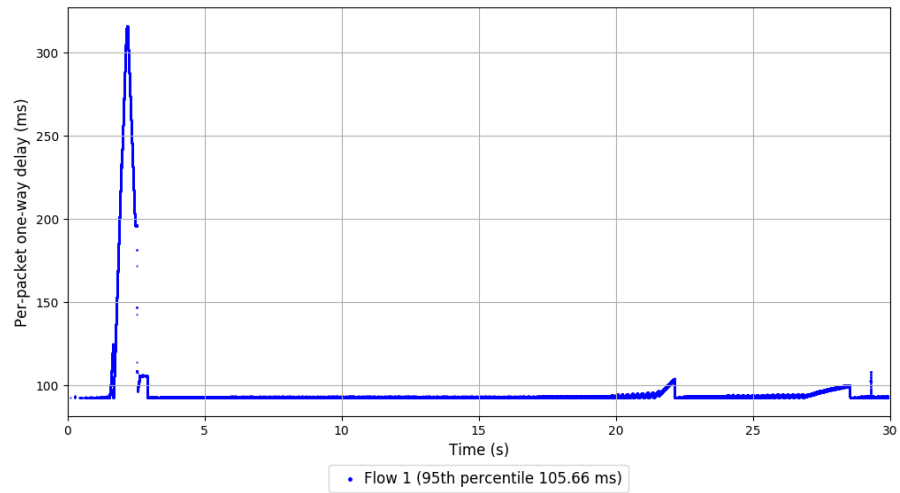
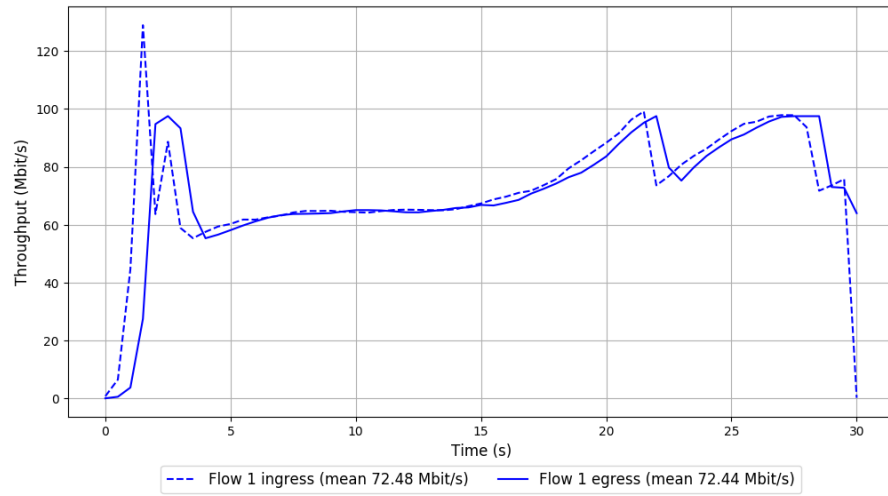
-- Flow 1:

Average throughput: 72.44 Mbit/s

95th percentile per-packet one-way delay: 105.663 ms

Loss rate: 0.64%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-02-12 00:09:44

End at: 2019-02-12 00:10:14

Local clock offset: -6.293 ms

Remote clock offset: 8.354 ms

Below is generated by plot.py at 2019-02-12 00:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.14 Mbit/s

95th percentile per-packet one-way delay: 99.454 ms

Loss rate: 0.87%

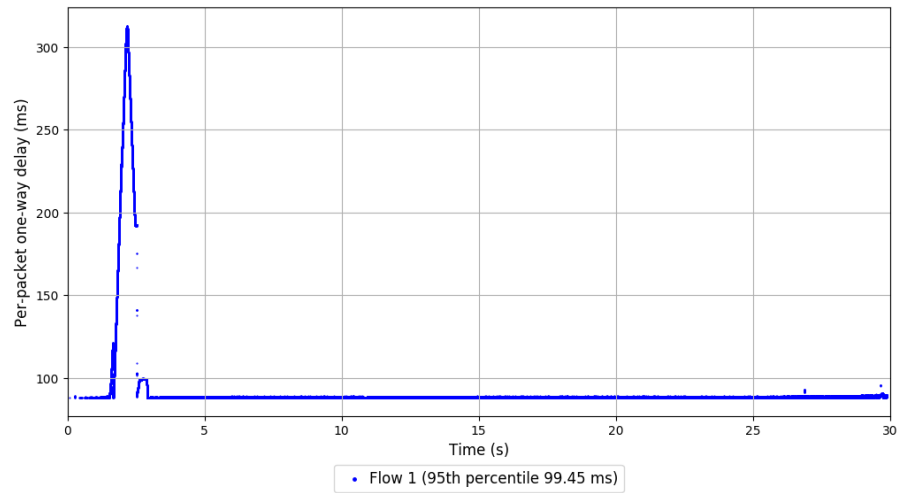
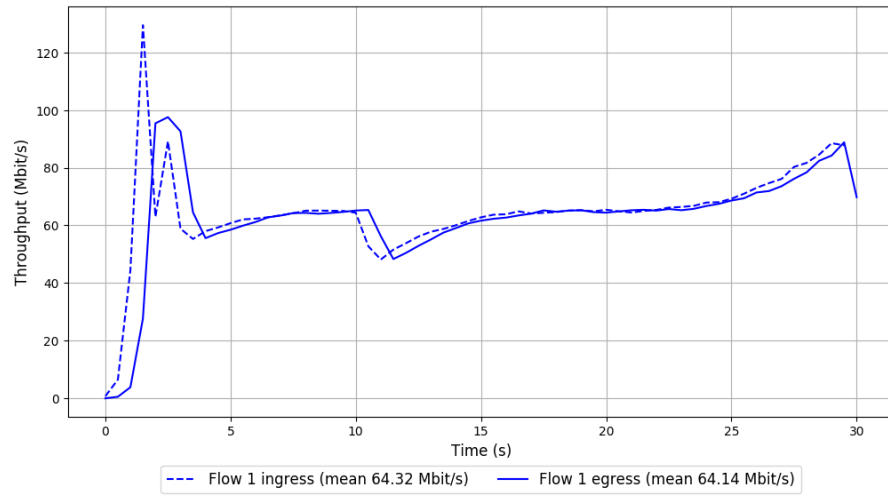
-- Flow 1:

Average throughput: 64.14 Mbit/s

95th percentile per-packet one-way delay: 99.454 ms

Loss rate: 0.87%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-02-12 00:35:31

End at: 2019-02-12 00:36:01

Local clock offset: -6.632 ms

Remote clock offset: 8.127 ms

Below is generated by plot.py at 2019-02-12 00:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.54 Mbit/s

95th percentile per-packet one-way delay: 150.803 ms

Loss rate: 1.11%

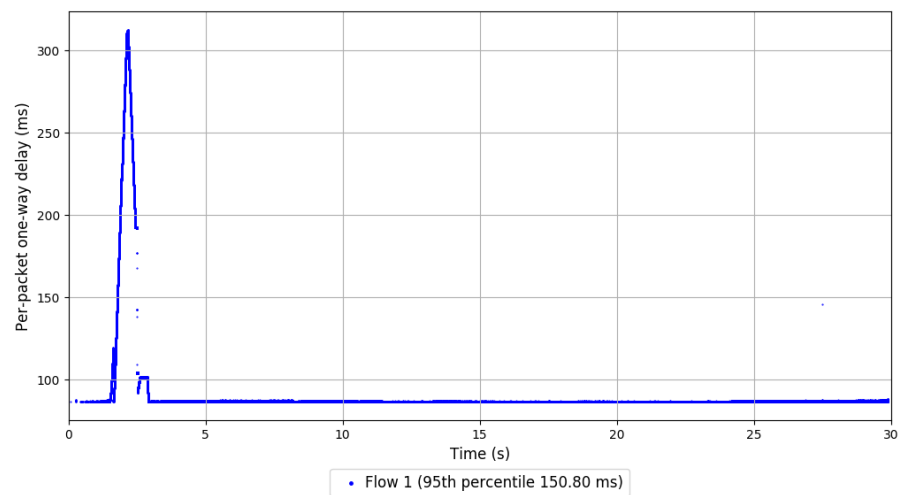
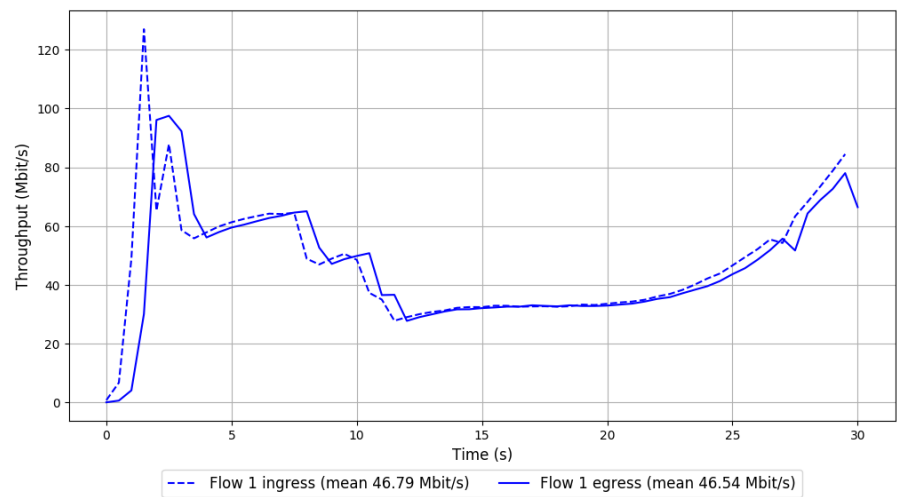
-- Flow 1:

Average throughput: 46.54 Mbit/s

95th percentile per-packet one-way delay: 150.803 ms

Loss rate: 1.11%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-02-11 22:33:25

End at: 2019-02-11 22:33:55

Local clock offset: -1.687 ms

Remote clock offset: 9.034 ms

Below is generated by plot.py at 2019-02-12 00:43:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.91 Mbit/s

95th percentile per-packet one-way delay: 104.294 ms

Loss rate: 0.68%

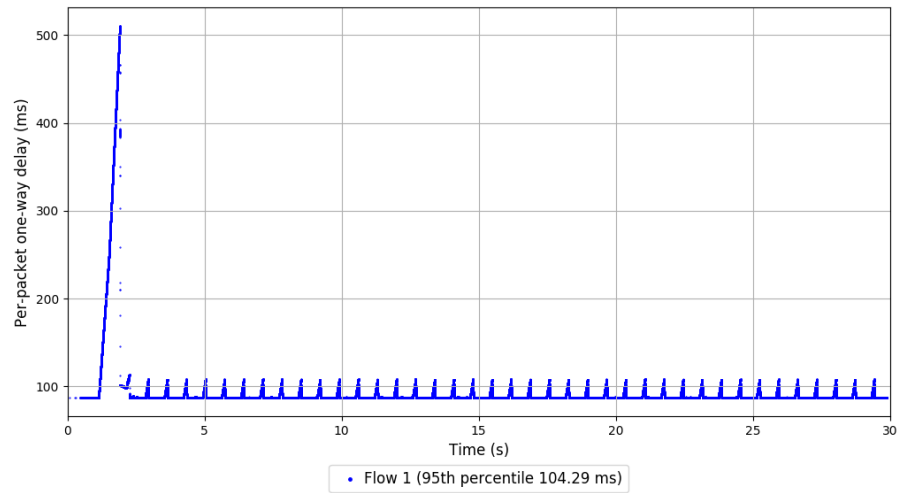
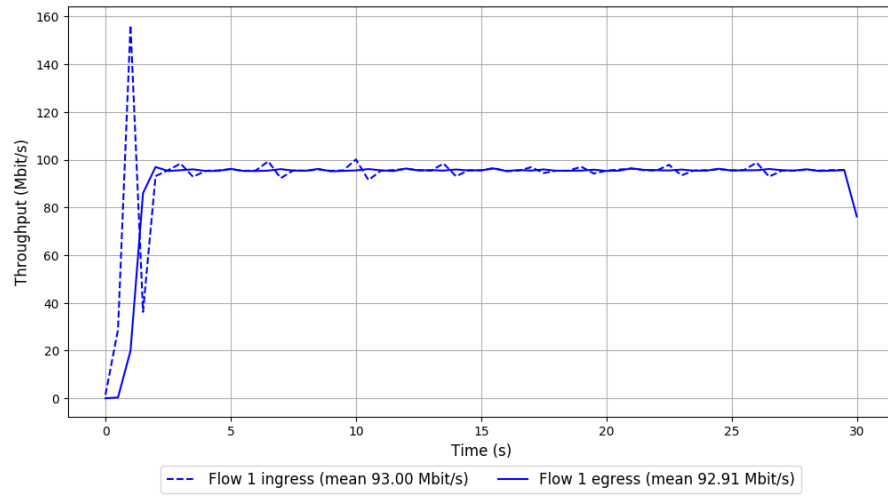
-- Flow 1:

Average throughput: 92.91 Mbit/s

95th percentile per-packet one-way delay: 104.294 ms

Loss rate: 0.68%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-02-11 22:58:25

End at: 2019-02-11 22:58:55

Local clock offset: -0.209 ms

Remote clock offset: 9.799 ms

Below is generated by plot.py at 2019-02-12 00:43:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.92 Mbit/s

95th percentile per-packet one-way delay: 104.932 ms

Loss rate: 0.66%

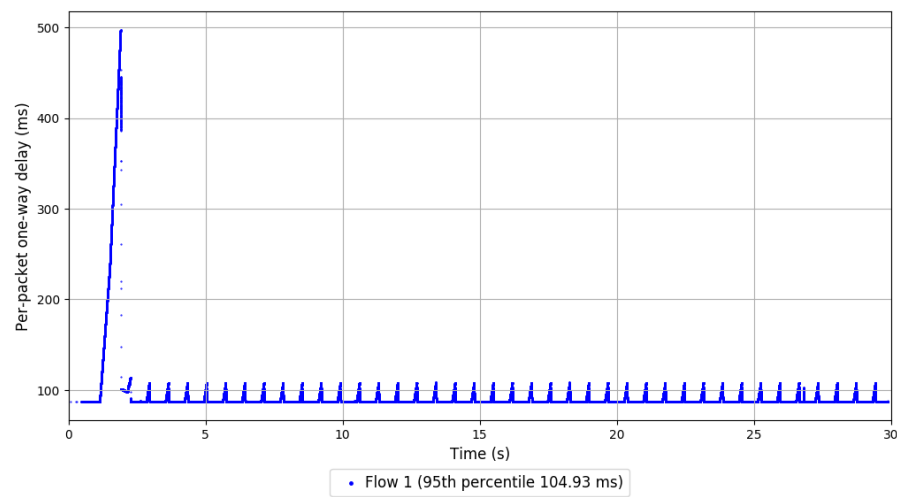
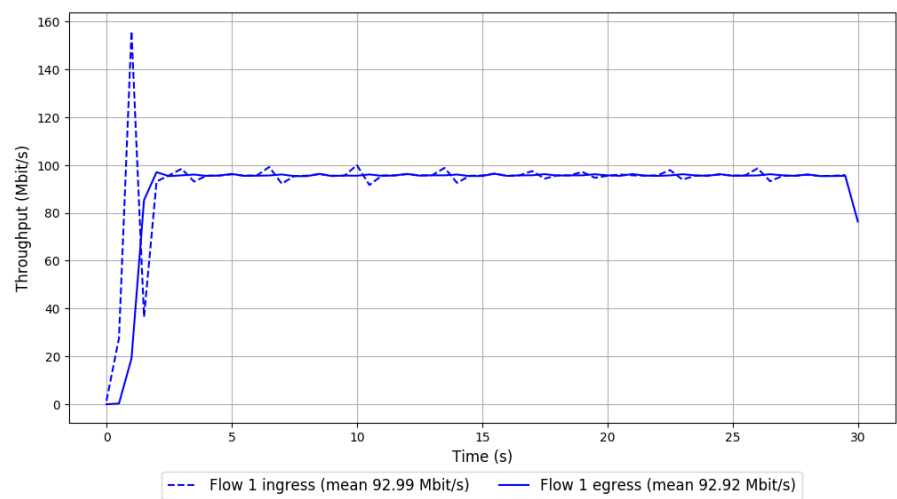
-- Flow 1:

Average throughput: 92.92 Mbit/s

95th percentile per-packet one-way delay: 104.932 ms

Loss rate: 0.66%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-02-11 23:23:37

End at: 2019-02-11 23:24:07

Local clock offset: -7.001 ms

Remote clock offset: 3.769 ms

Below is generated by plot.py at 2019-02-12 00:43:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.85 Mbit/s

95th percentile per-packet one-way delay: 137.065 ms

Loss rate: 0.75%

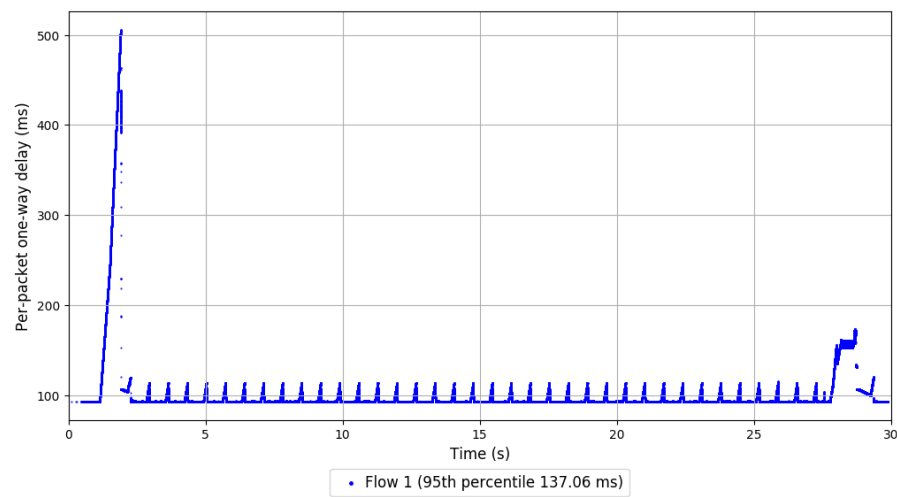
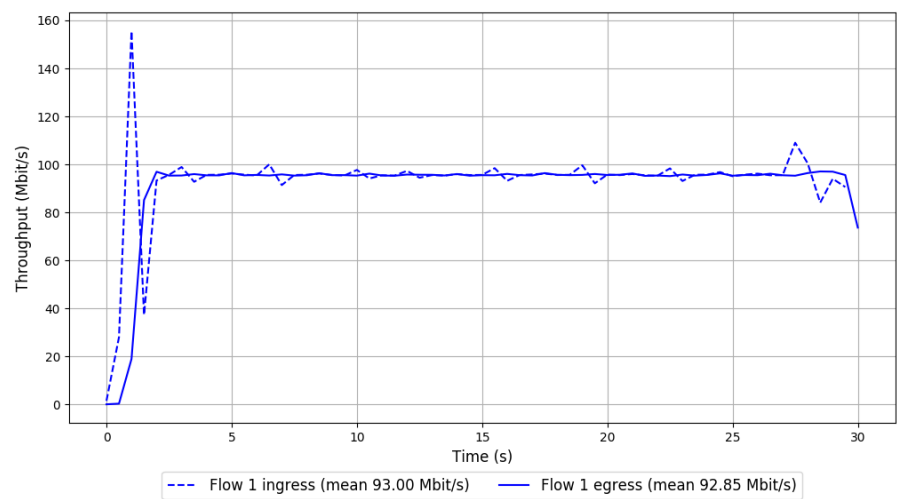
-- Flow 1:

Average throughput: 92.85 Mbit/s

95th percentile per-packet one-way delay: 137.065 ms

Loss rate: 0.75%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-02-11 23:50:18

End at: 2019-02-11 23:50:48

Local clock offset: -6.411 ms

Remote clock offset: 8.602 ms

Below is generated by plot.py at 2019-02-12 00:43:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.44 Mbit/s

95th percentile per-packet one-way delay: 106.927 ms

Loss rate: 0.67%

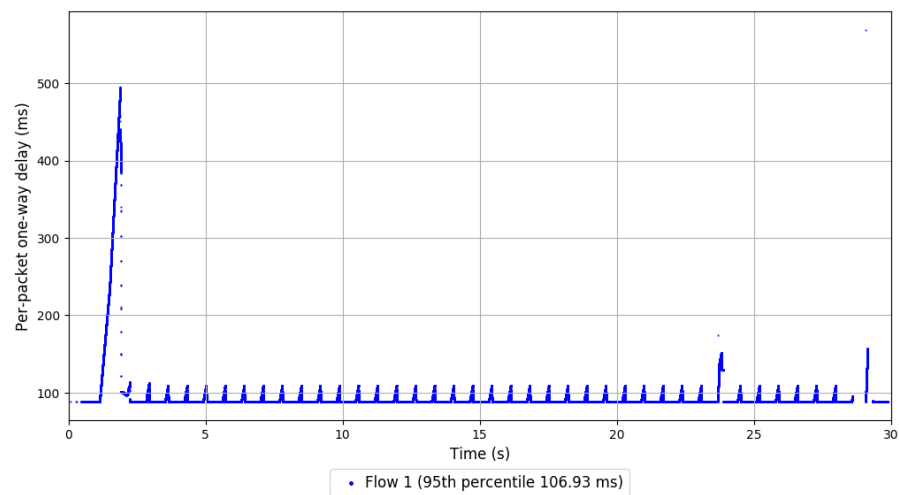
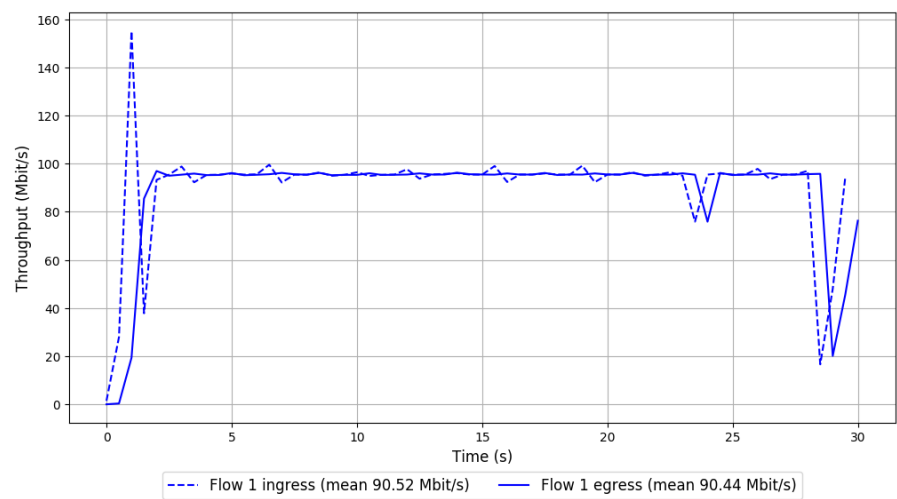
-- Flow 1:

Average throughput: 90.44 Mbit/s

95th percentile per-packet one-way delay: 106.927 ms

Loss rate: 0.67%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-02-12 00:16:05

End at: 2019-02-12 00:16:35

Local clock offset: -6.907 ms

Remote clock offset: 8.342 ms

Below is generated by plot.py at 2019-02-12 00:43:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.88 Mbit/s

95th percentile per-packet one-way delay: 110.991 ms

Loss rate: 0.87%

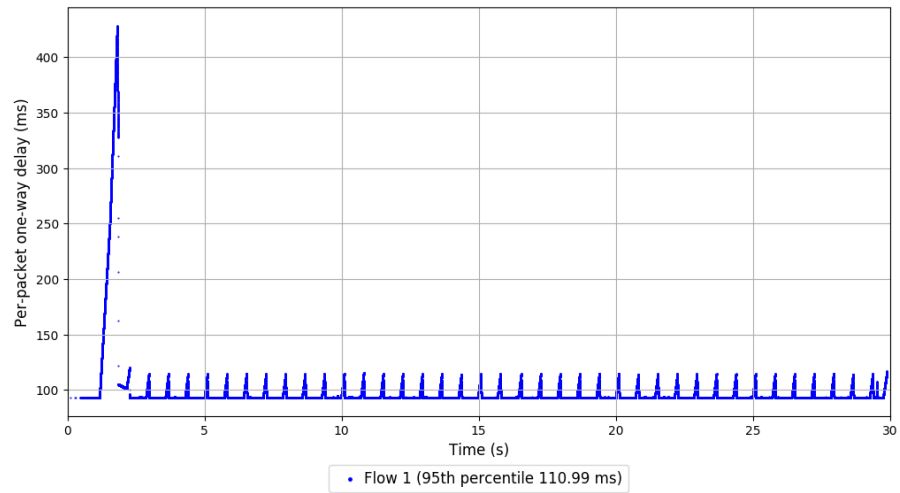
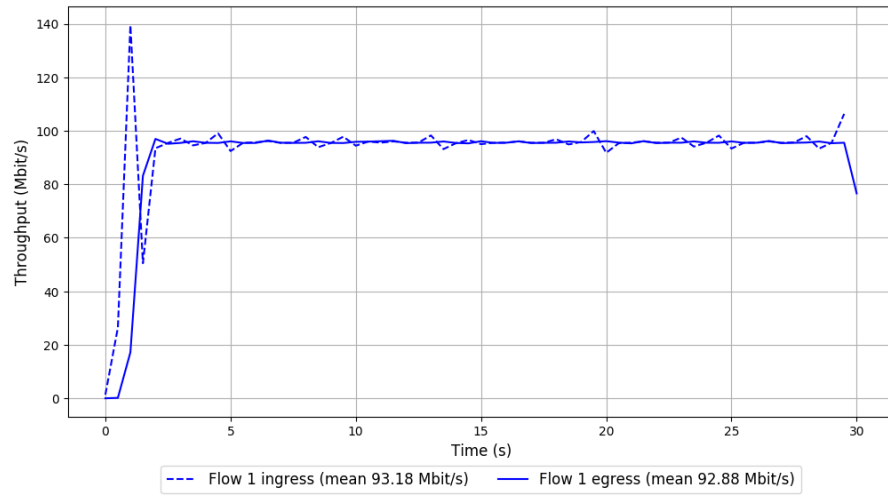
-- Flow 1:

Average throughput: 92.88 Mbit/s

95th percentile per-packet one-way delay: 110.991 ms

Loss rate: 0.87%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-02-11 22:35:48

End at: 2019-02-11 22:36:18

Local clock offset: -0.684 ms

Remote clock offset: 3.885 ms

Below is generated by plot.py at 2019-02-12 00:43:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.08 Mbit/s

95th percentile per-packet one-way delay: 119.698 ms

Loss rate: 0.66%

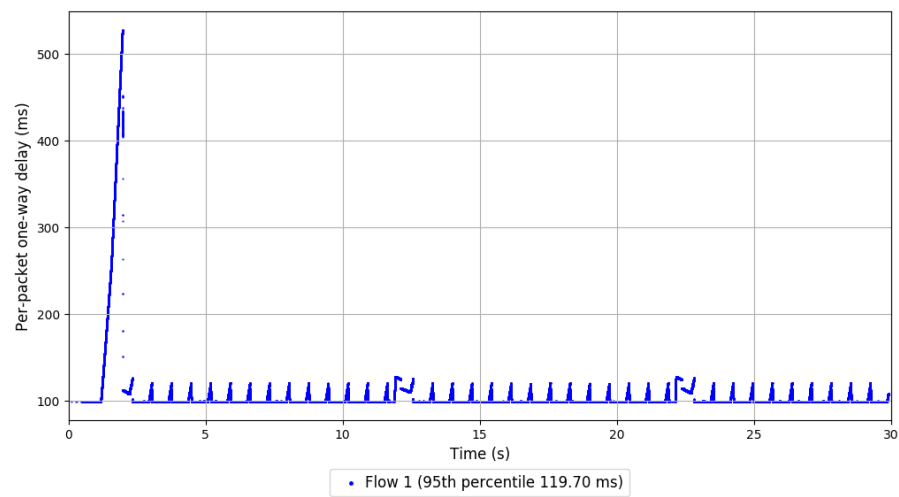
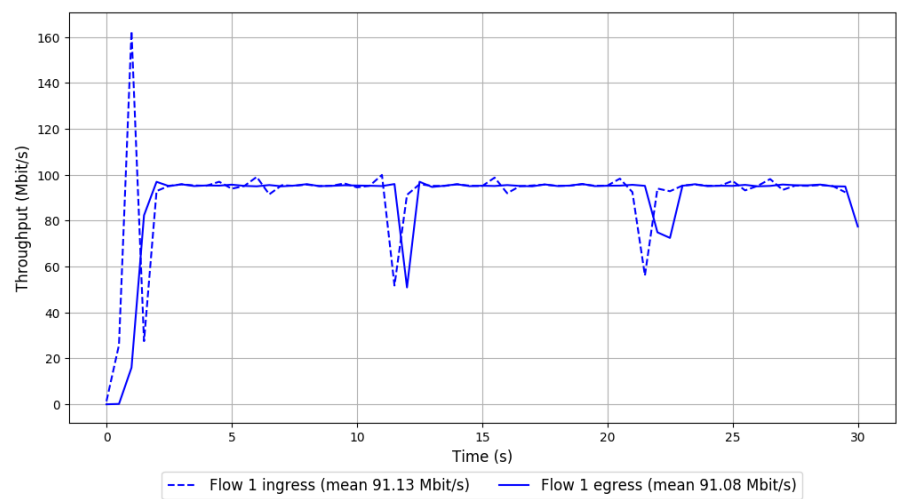
-- Flow 1:

Average throughput: 91.08 Mbit/s

95th percentile per-packet one-way delay: 119.698 ms

Loss rate: 0.66%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-02-11 23:00:48

End at: 2019-02-11 23:01:18

Local clock offset: -0.182 ms

Remote clock offset: 9.558 ms

Below is generated by plot.py at 2019-02-12 00:44:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.14 Mbit/s

95th percentile per-packet one-way delay: 112.102 ms

Loss rate: 0.63%

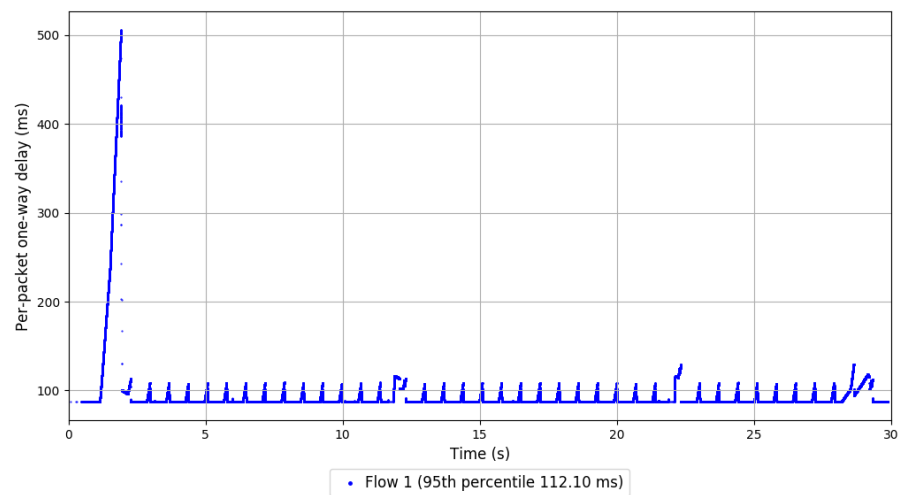
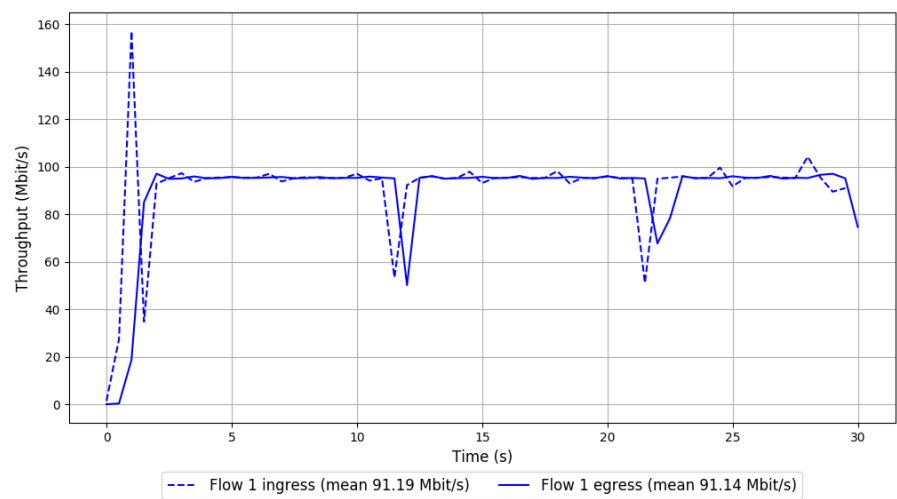
-- Flow 1:

Average throughput: 91.14 Mbit/s

95th percentile per-packet one-way delay: 112.102 ms

Loss rate: 0.63%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-02-11 23:26:15

End at: 2019-02-11 23:26:45

Local clock offset: -6.598 ms

Remote clock offset: 8.912 ms

Below is generated by plot.py at 2019-02-12 00:44:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.25 Mbit/s

95th percentile per-packet one-way delay: 103.958 ms

Loss rate: 0.68%

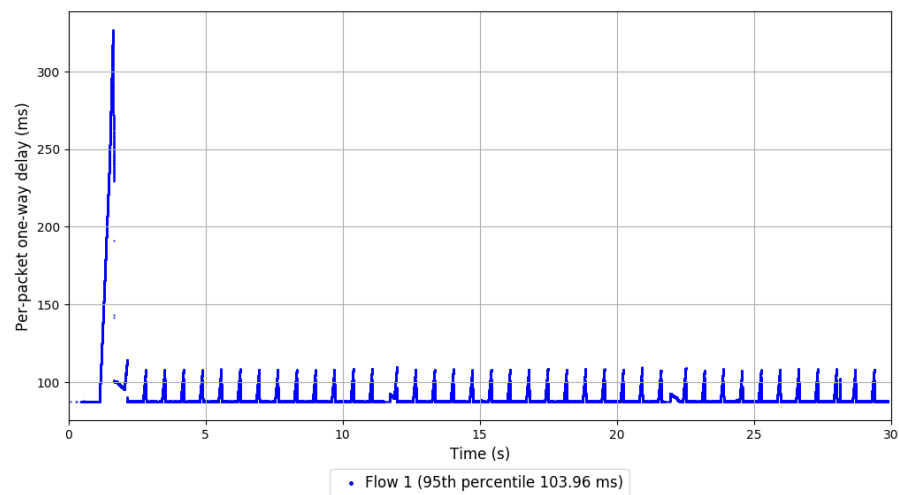
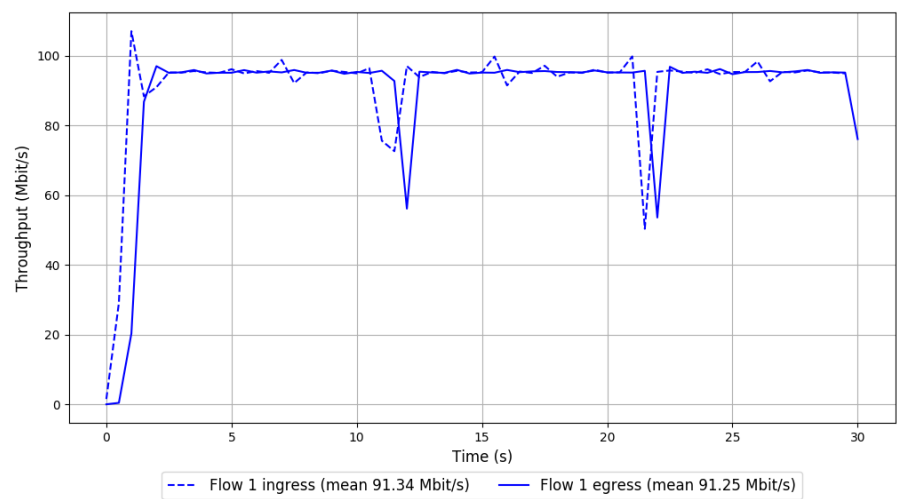
-- Flow 1:

Average throughput: 91.25 Mbit/s

95th percentile per-packet one-way delay: 103.958 ms

Loss rate: 0.68%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-02-11 23:52:43

End at: 2019-02-11 23:53:13

Local clock offset: -7.123 ms

Remote clock offset: 8.504 ms

Below is generated by plot.py at 2019-02-12 00:44:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.11 Mbit/s

95th percentile per-packet one-way delay: 111.883 ms

Loss rate: 0.65%

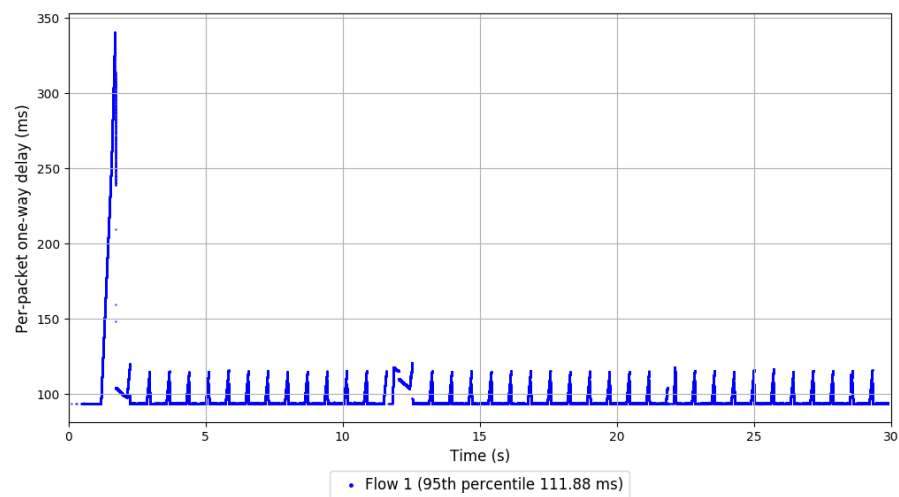
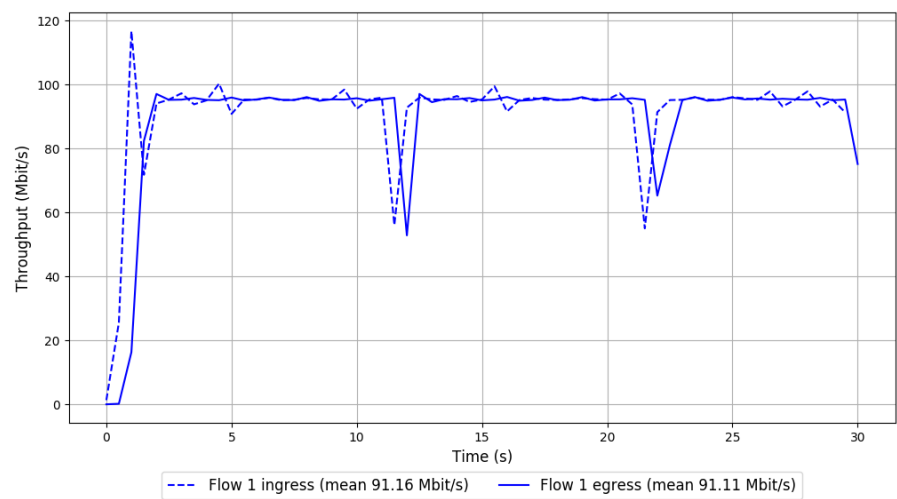
-- Flow 1:

Average throughput: 91.11 Mbit/s

95th percentile per-packet one-way delay: 111.883 ms

Loss rate: 0.65%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-02-12 00:18:34

End at: 2019-02-12 00:19:04

Local clock offset: -6.141 ms

Remote clock offset: 3.335 ms

Below is generated by plot.py at 2019-02-12 00:44:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.18 Mbit/s

95th percentile per-packet one-way delay: 112.027 ms

Loss rate: 0.66%

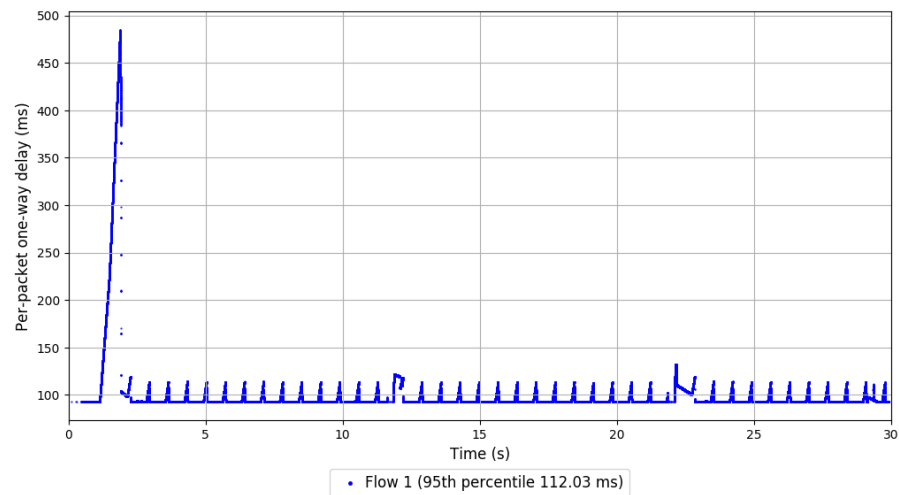
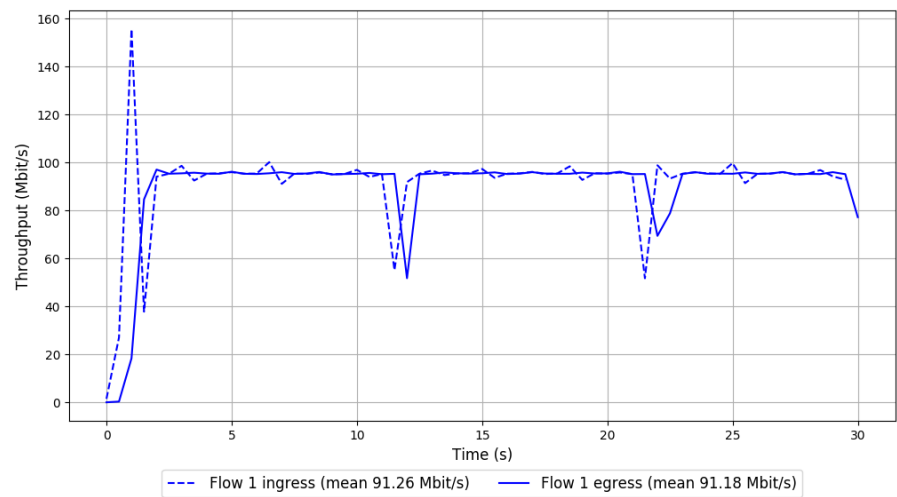
-- Flow 1:

Average throughput: 91.18 Mbit/s

95th percentile per-packet one-way delay: 112.027 ms

Loss rate: 0.66%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-02-11 22:53:38

End at: 2019-02-11 22:54:08

Local clock offset: -0.53 ms

Remote clock offset: 9.351 ms

Below is generated by plot.py at 2019-02-12 00:44:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.76 Mbit/s

95th percentile per-packet one-way delay: 177.112 ms

Loss rate: 2.95%

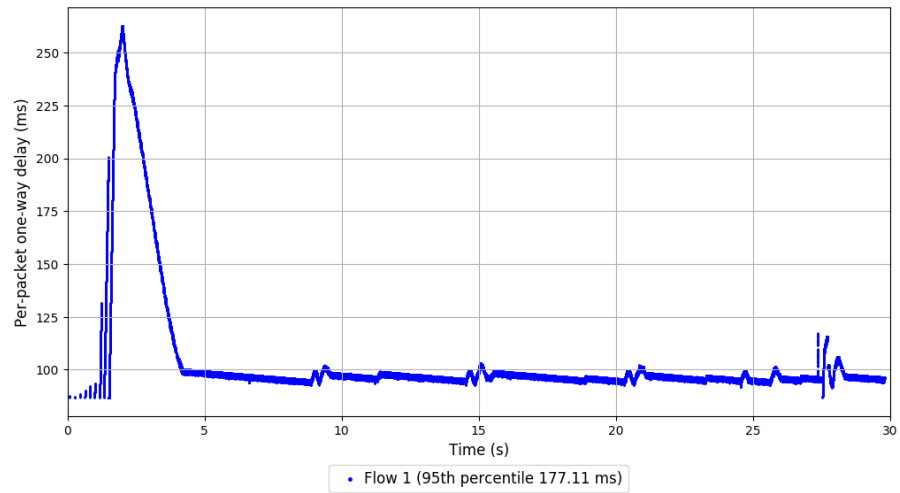
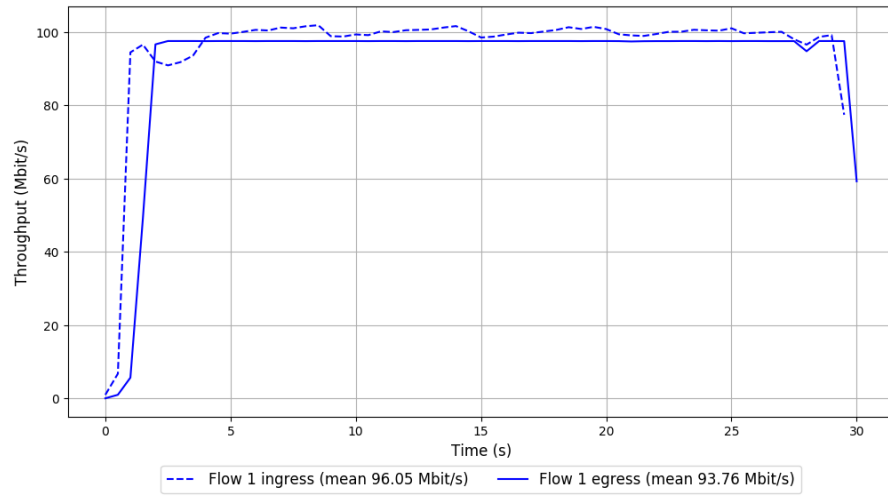
-- Flow 1:

Average throughput: 93.76 Mbit/s

95th percentile per-packet one-way delay: 177.112 ms

Loss rate: 2.95%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-02-11 23:18:35

End at: 2019-02-11 23:19:05

Local clock offset: -5.336 ms

Remote clock offset: 3.718 ms

Below is generated by plot.py at 2019-02-12 00:44:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.74 Mbit/s

95th percentile per-packet one-way delay: 144.339 ms

Loss rate: 0.69%

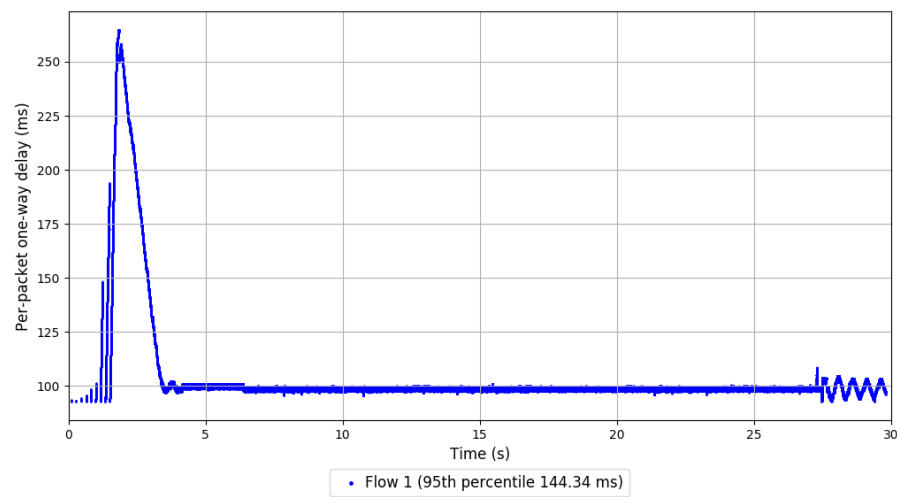
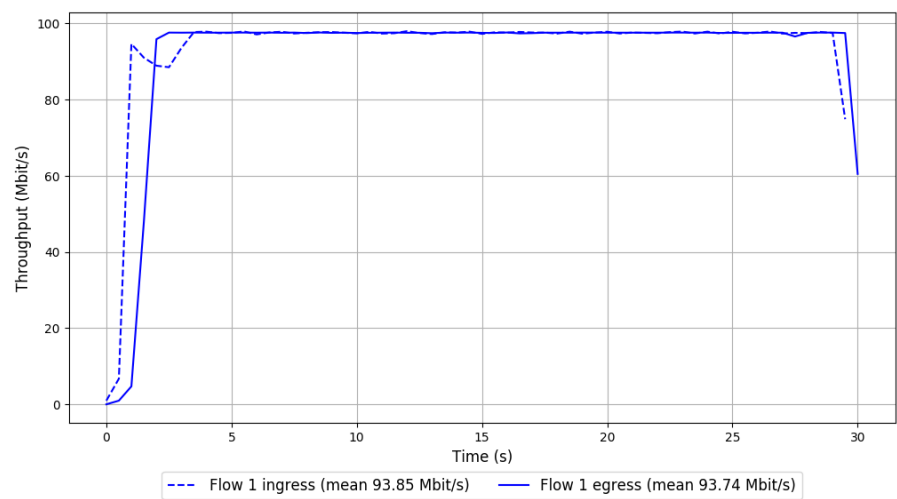
-- Flow 1:

Average throughput: 93.74 Mbit/s

95th percentile per-packet one-way delay: 144.339 ms

Loss rate: 0.69%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-02-11 23:45:18

End at: 2019-02-11 23:45:48

Local clock offset: -7.169 ms

Remote clock offset: 8.752 ms

Below is generated by plot.py at 2019-02-12 00:44:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.75 Mbit/s

95th percentile per-packet one-way delay: 150.641 ms

Loss rate: 1.31%

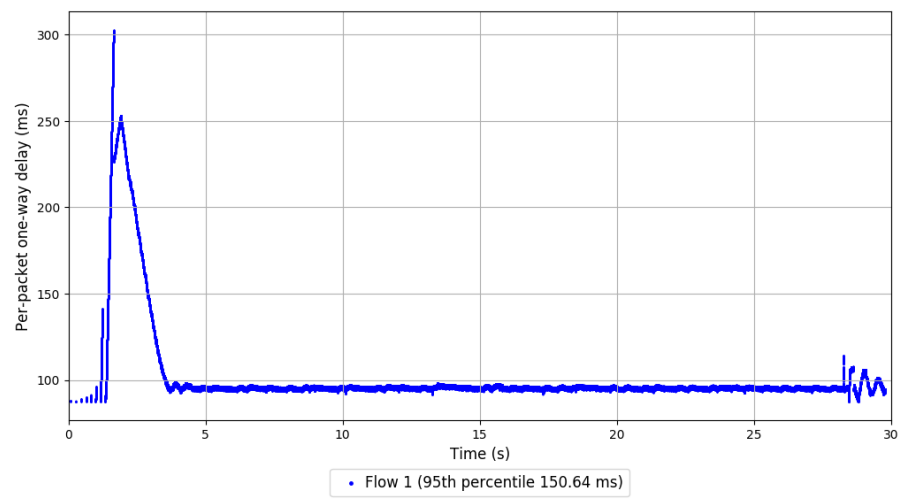
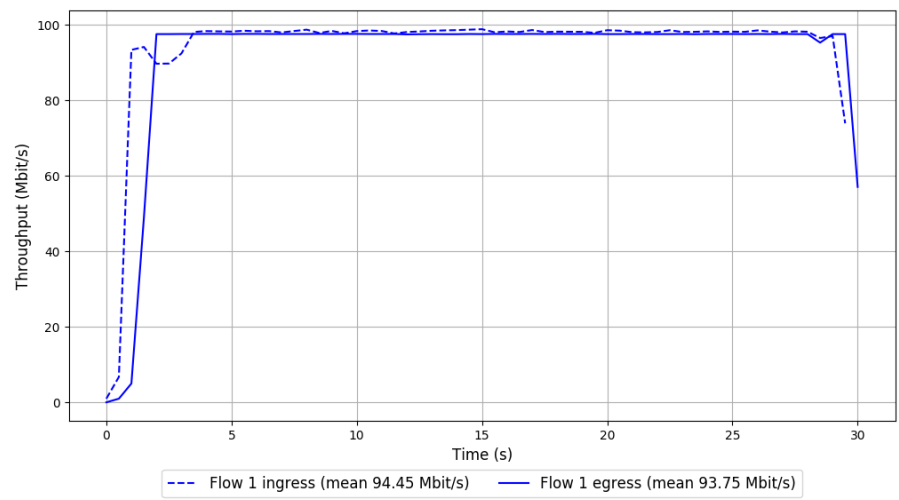
-- Flow 1:

Average throughput: 93.75 Mbit/s

95th percentile per-packet one-way delay: 150.641 ms

Loss rate: 1.31%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-02-12 00:10:59

End at: 2019-02-12 00:11:29

Local clock offset: -6.306 ms

Remote clock offset: 8.045 ms

Below is generated by plot.py at 2019-02-12 00:44:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.59 Mbit/s

95th percentile per-packet one-way delay: 151.244 ms

Loss rate: 0.83%

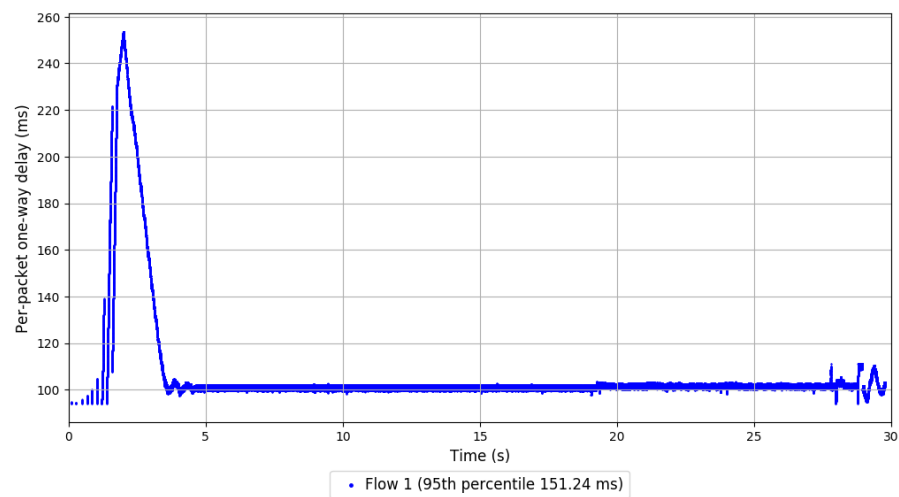
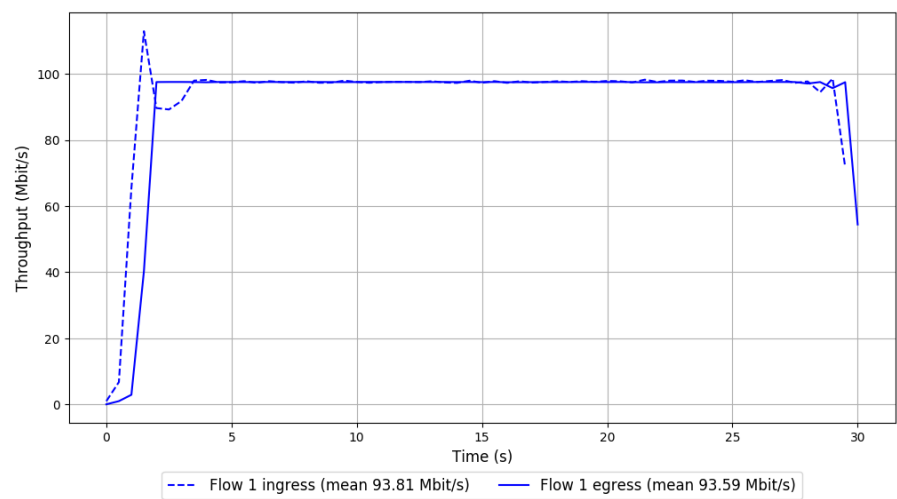
-- Flow 1:

Average throughput: 93.59 Mbit/s

95th percentile per-packet one-way delay: 151.244 ms

Loss rate: 0.83%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-02-12 00:36:41

End at: 2019-02-12 00:37:11

Local clock offset: -5.321 ms

Remote clock offset: 3.056 ms

Below is generated by plot.py at 2019-02-12 00:45:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.38 Mbit/s

95th percentile per-packet one-way delay: 108.143 ms

Loss rate: 0.72%

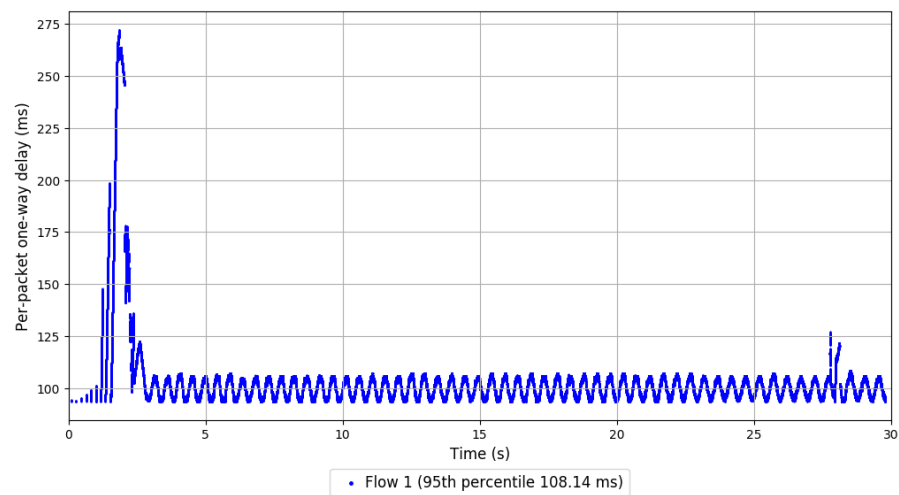
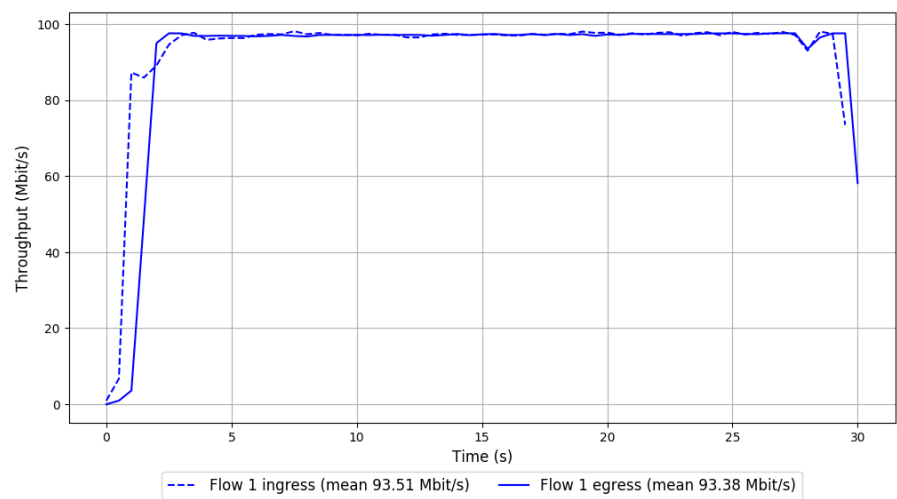
-- Flow 1:

Average throughput: 93.38 Mbit/s

95th percentile per-packet one-way delay: 108.143 ms

Loss rate: 0.72%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-02-11 22:48:51

End at: 2019-02-11 22:49:21

Local clock offset: 0.033 ms

Remote clock offset: 4.2 ms

Below is generated by plot.py at 2019-02-12 00:45:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.82 Mbit/s

95th percentile per-packet one-way delay: 217.077 ms

Loss rate: 5.27%

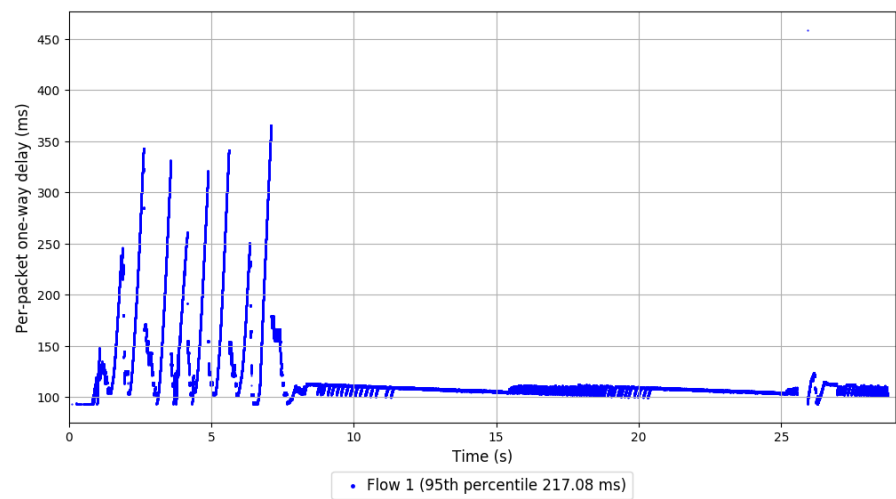
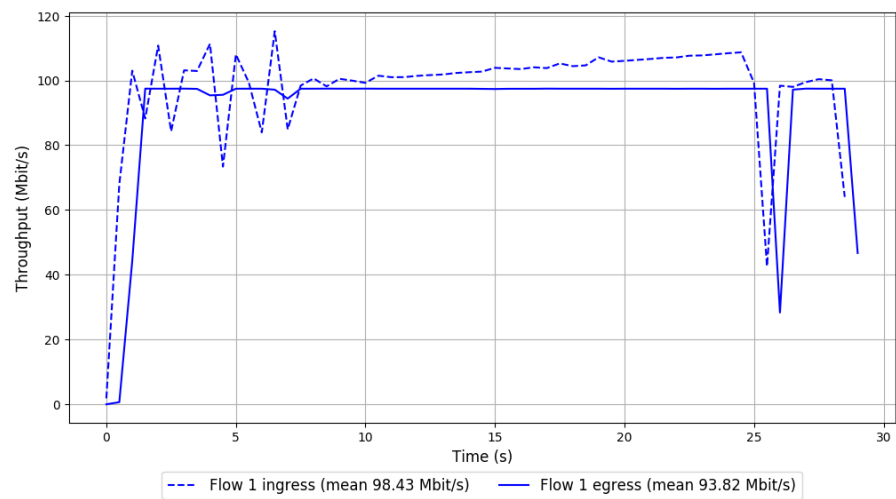
-- Flow 1:

Average throughput: 93.82 Mbit/s

95th percentile per-packet one-way delay: 217.077 ms

Loss rate: 5.27%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-02-11 23:13:50

End at: 2019-02-11 23:14:20

Local clock offset: -4.123 ms

Remote clock offset: 4.023 ms

Below is generated by plot.py at 2019-02-12 00:45:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.13 Mbit/s

95th percentile per-packet one-way delay: 112.216 ms

Loss rate: 6.42%

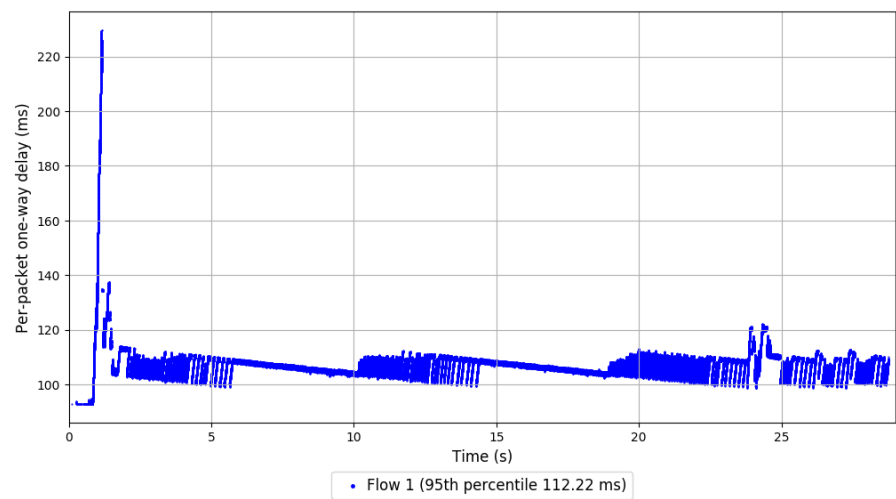
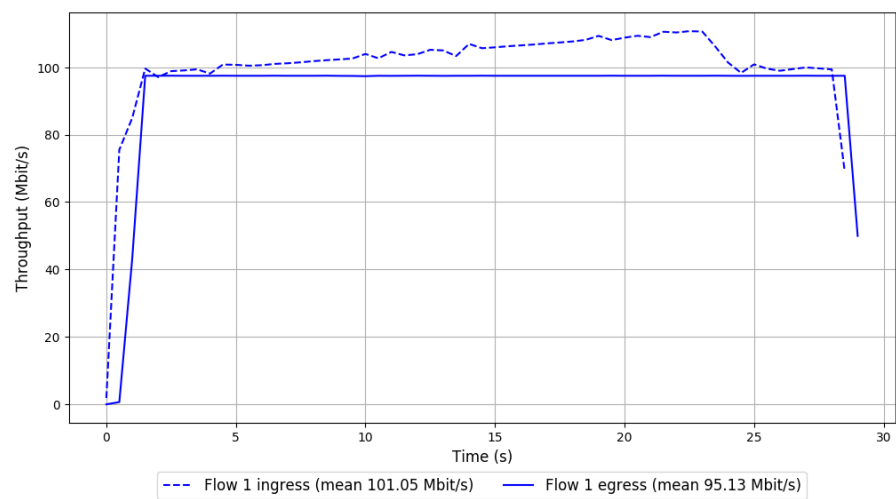
-- Flow 1:

Average throughput: 95.13 Mbit/s

95th percentile per-packet one-way delay: 112.216 ms

Loss rate: 6.42%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-02-11 23:40:13

End at: 2019-02-11 23:40:43

Local clock offset: -7.438 ms

Remote clock offset: 3.784 ms

Below is generated by plot.py at 2019-02-12 00:45:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.17 Mbit/s

95th percentile per-packet one-way delay: 111.422 ms

Loss rate: 6.02%

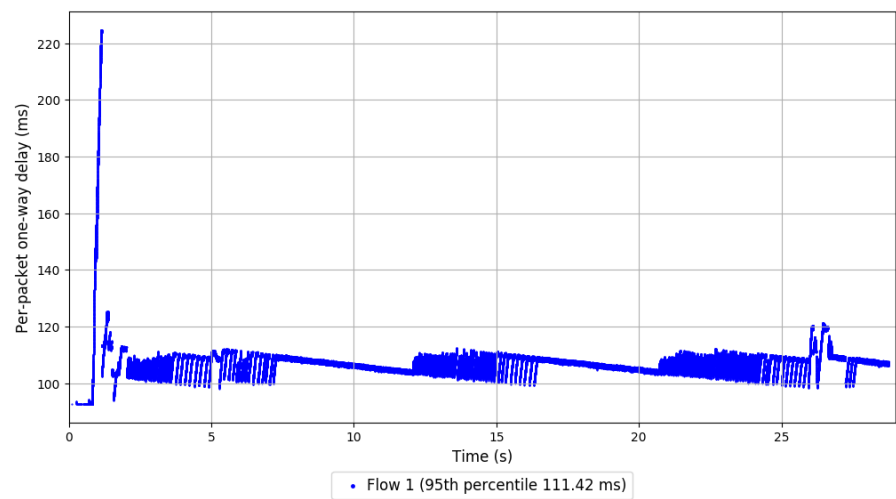
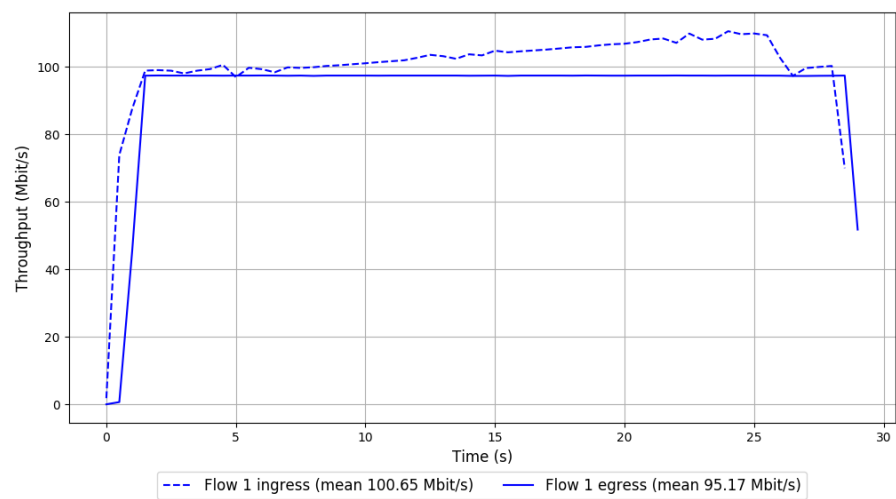
-- Flow 1:

Average throughput: 95.17 Mbit/s

95th percentile per-packet one-way delay: 111.422 ms

Loss rate: 6.02%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-02-12 00:06:00

End at: 2019-02-12 00:06:30

Local clock offset: -7.358 ms

Remote clock offset: 3.182 ms

Below is generated by plot.py at 2019-02-12 00:45:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.20 Mbit/s

95th percentile per-packet one-way delay: 112.096 ms

Loss rate: 6.08%

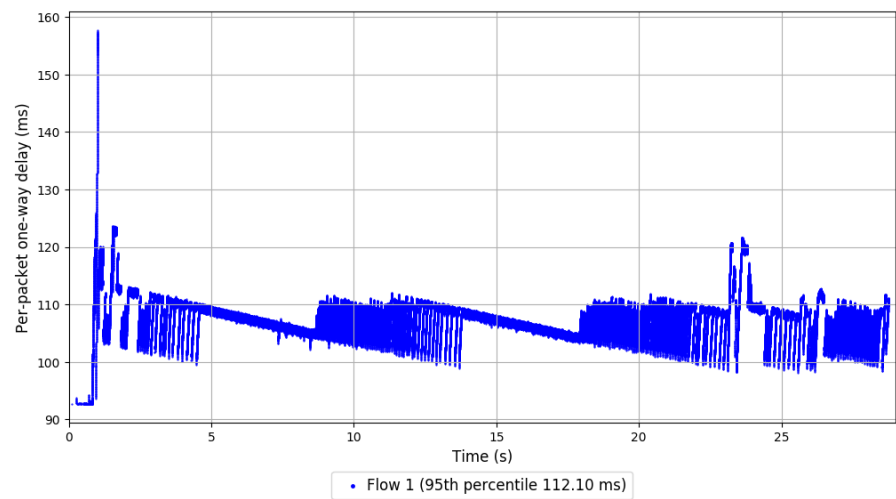
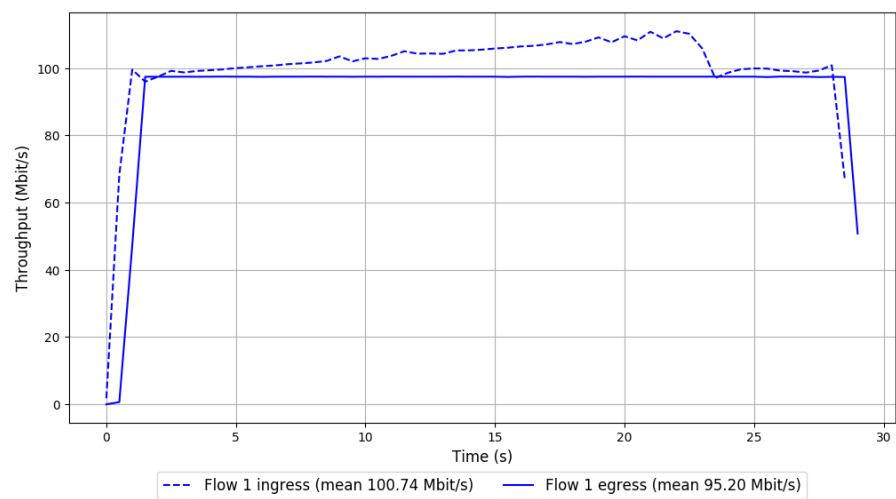
-- Flow 1:

Average throughput: 95.20 Mbit/s

95th percentile per-packet one-way delay: 112.096 ms

Loss rate: 6.08%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-02-12 00:31:55

End at: 2019-02-12 00:32:25

Local clock offset: -7.102 ms

Remote clock offset: 8.502 ms

Below is generated by plot.py at 2019-02-12 00:45:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.24 Mbit/s

95th percentile per-packet one-way delay: 107.235 ms

Loss rate: 6.60%

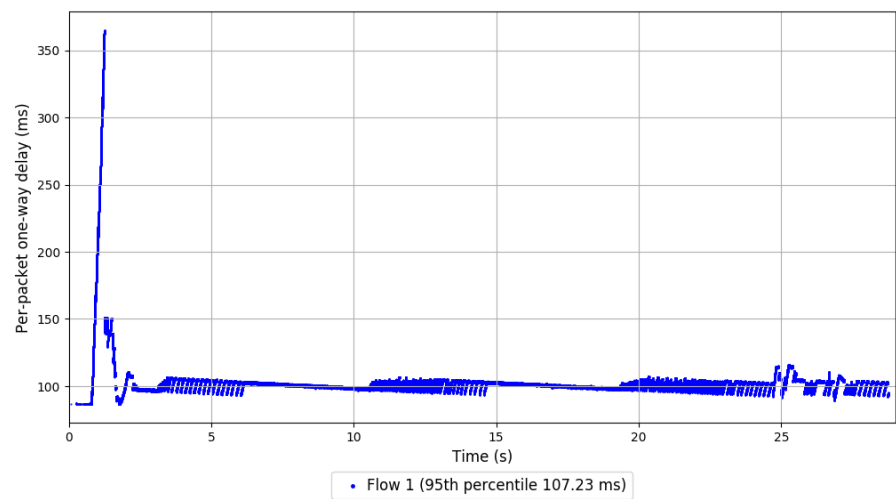
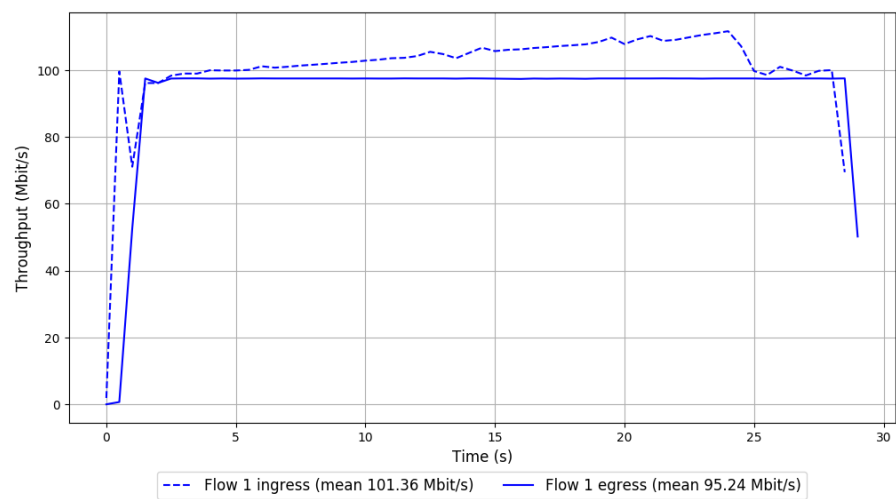
-- Flow 1:

Average throughput: 95.24 Mbit/s

95th percentile per-packet one-way delay: 107.235 ms

Loss rate: 6.60%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-02-11 22:54:51

End at: 2019-02-11 22:55:21

Local clock offset: 0.298 ms

Remote clock offset: 9.279 ms

Below is generated by plot.py at 2019-02-12 00:45:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.04 Mbit/s

95th percentile per-packet one-way delay: 105.645 ms

Loss rate: 8.05%

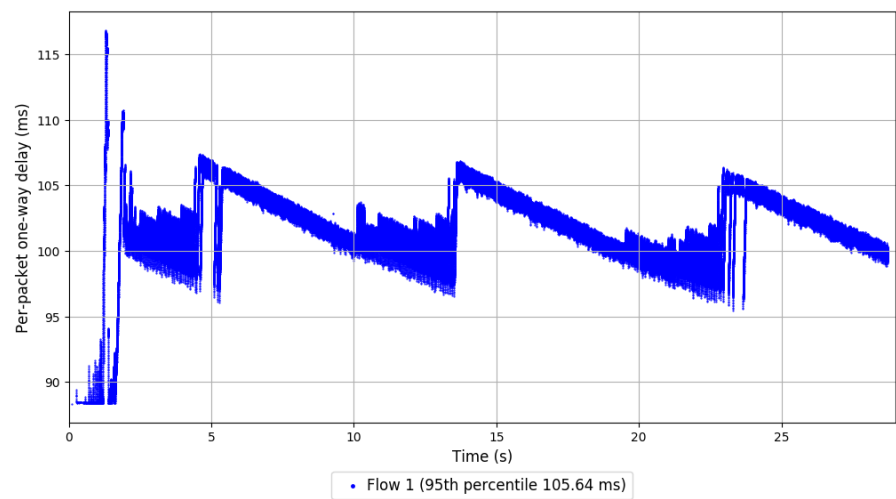
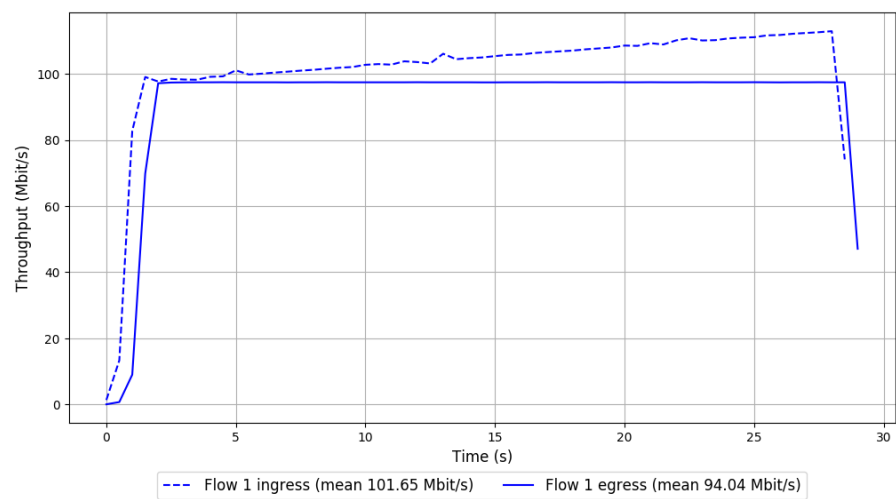
-- Flow 1:

Average throughput: 94.04 Mbit/s

95th percentile per-packet one-way delay: 105.645 ms

Loss rate: 8.05%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-02-11 23:19:51

End at: 2019-02-11 23:20:21

Local clock offset: -5.579 ms

Remote clock offset: 9.055 ms

Below is generated by plot.py at 2019-02-12 00:46:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.82 Mbit/s

95th percentile per-packet one-way delay: 97.262 ms

Loss rate: 1.64%

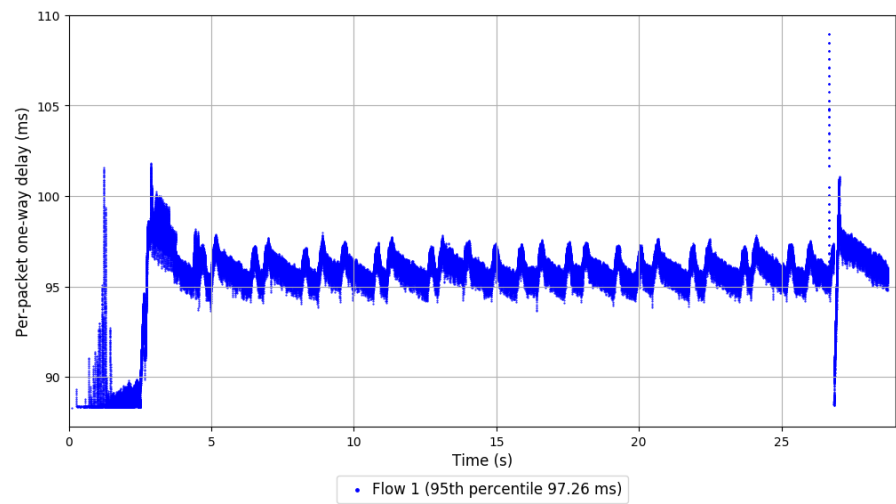
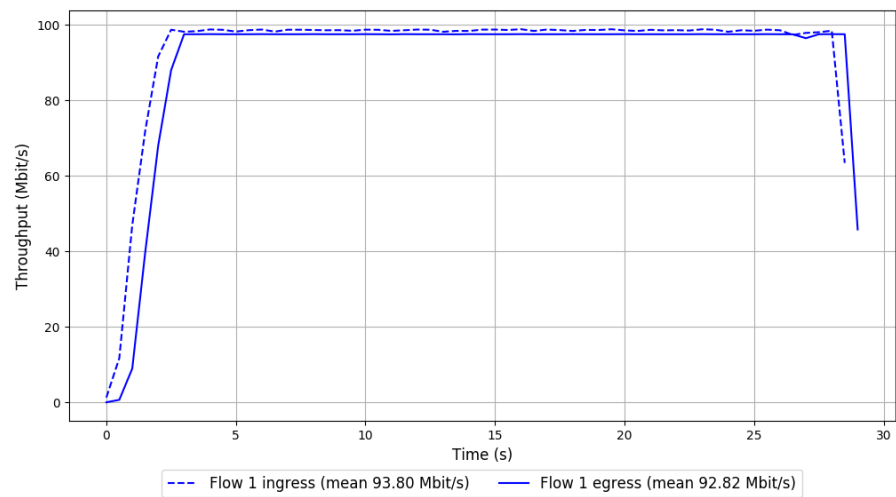
-- Flow 1:

Average throughput: 92.82 Mbit/s

95th percentile per-packet one-way delay: 97.262 ms

Loss rate: 1.64%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-02-11 23:46:34

End at: 2019-02-11 23:47:04

Local clock offset: -6.368 ms

Remote clock offset: 3.642 ms

Below is generated by plot.py at 2019-02-12 00:46:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.07 Mbit/s

95th percentile per-packet one-way delay: 110.056 ms

Loss rate: 6.26%

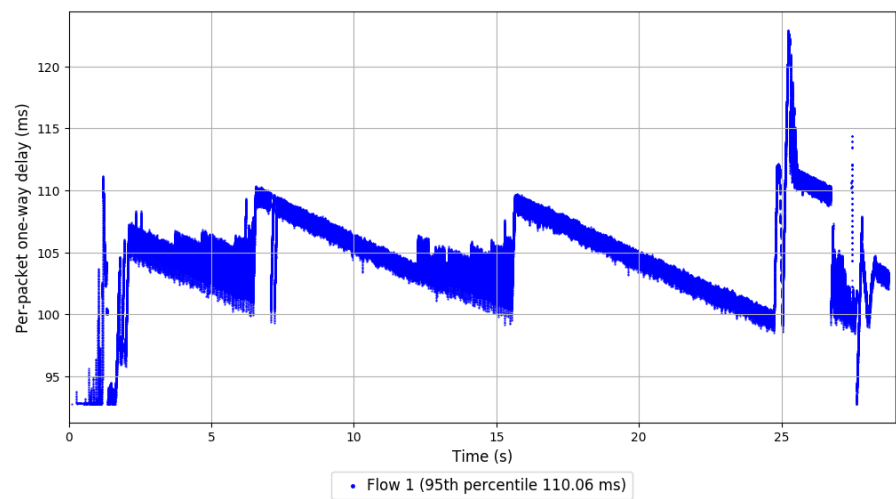
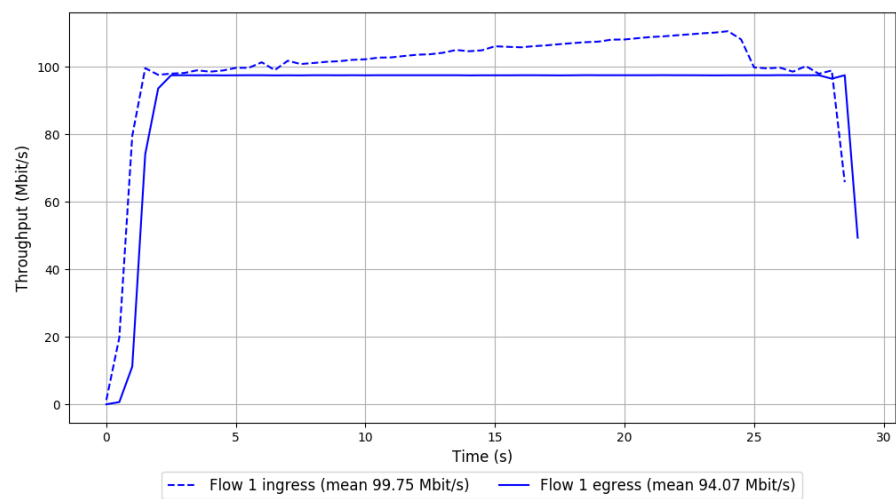
-- Flow 1:

Average throughput: 94.07 Mbit/s

95th percentile per-packet one-way delay: 110.056 ms

Loss rate: 6.26%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-02-12 00:12:17

End at: 2019-02-12 00:12:47

Local clock offset: -6.231 ms

Remote clock offset: 8.426 ms

Below is generated by plot.py at 2019-02-12 00:46:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.25 Mbit/s

95th percentile per-packet one-way delay: 108.442 ms

Loss rate: 0.72%

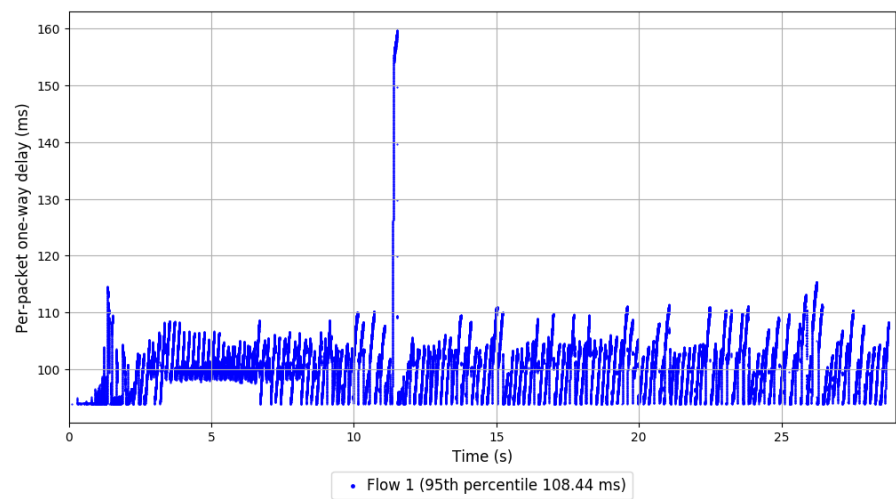
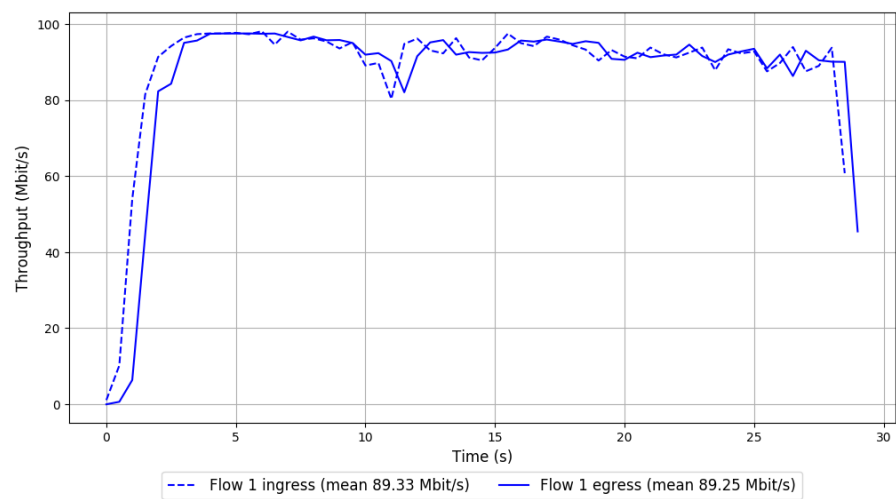
-- Flow 1:

Average throughput: 89.25 Mbit/s

95th percentile per-packet one-way delay: 108.442 ms

Loss rate: 0.72%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-02-12 00:37:57

End at: 2019-02-12 00:38:27

Local clock offset: -5.626 ms

Remote clock offset: 3.291 ms

Below is generated by plot.py at 2019-02-12 00:46:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.02 Mbit/s

95th percentile per-packet one-way delay: 101.249 ms

Loss rate: 0.67%

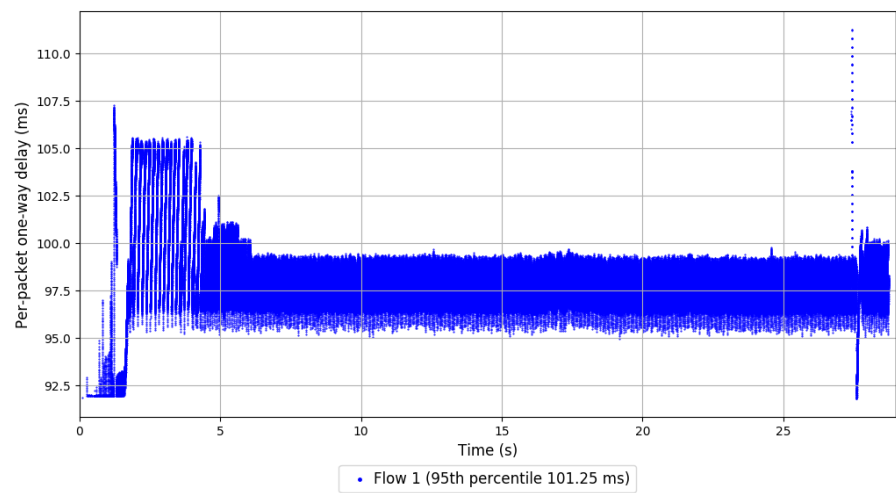
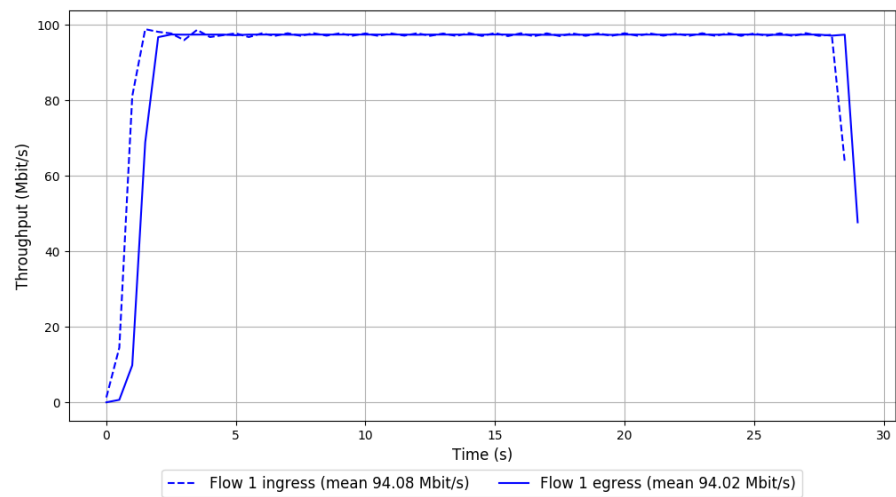
-- Flow 1:

Average throughput: 94.02 Mbit/s

95th percentile per-packet one-way delay: 101.249 ms

Loss rate: 0.67%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-02-11 22:45:19

End at: 2019-02-11 22:45:49

Local clock offset: -0.15 ms

Remote clock offset: 9.269 ms

Below is generated by plot.py at 2019-02-12 00:46:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.66 Mbit/s

95th percentile per-packet one-way delay: 95.874 ms

Loss rate: 0.93%

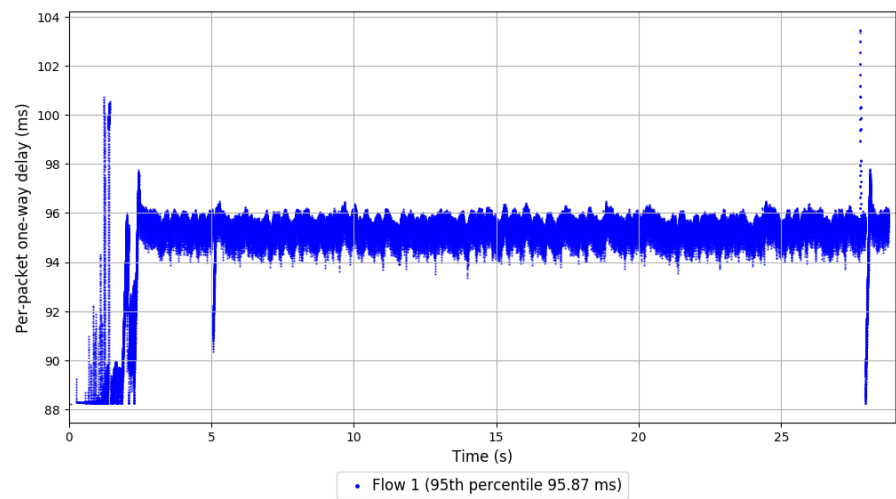
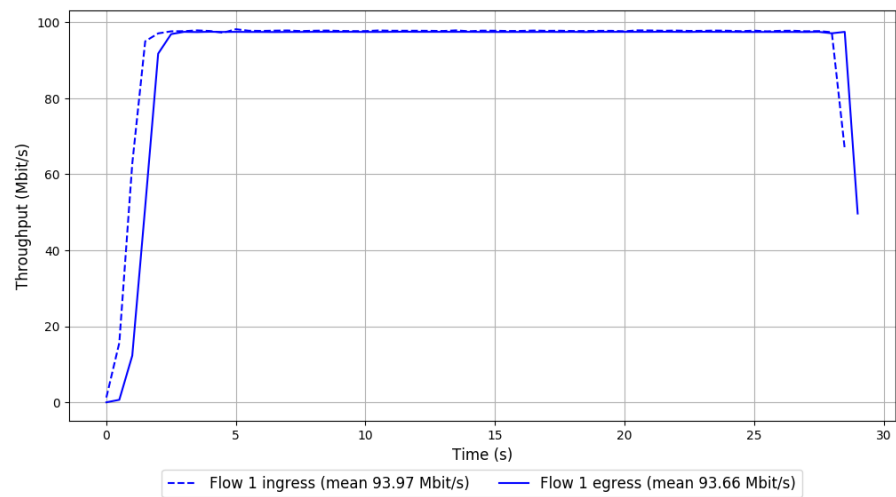
-- Flow 1:

Average throughput: 93.66 Mbit/s

95th percentile per-packet one-way delay: 95.874 ms

Loss rate: 0.93%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-02-11 23:10:17

End at: 2019-02-11 23:10:47

Local clock offset: -2.705 ms

Remote clock offset: 9.181 ms

Below is generated by plot.py at 2019-02-12 00:46:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.00 Mbit/s

95th percentile per-packet one-way delay: 105.469 ms

Loss rate: 0.68%

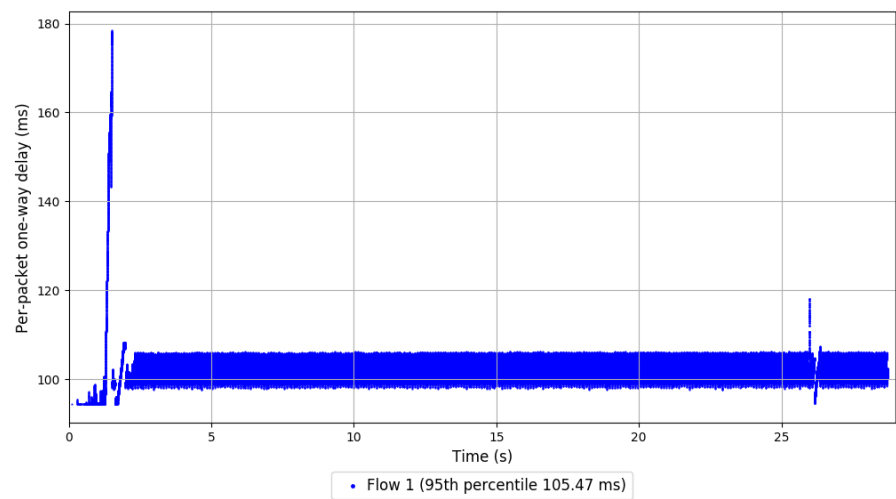
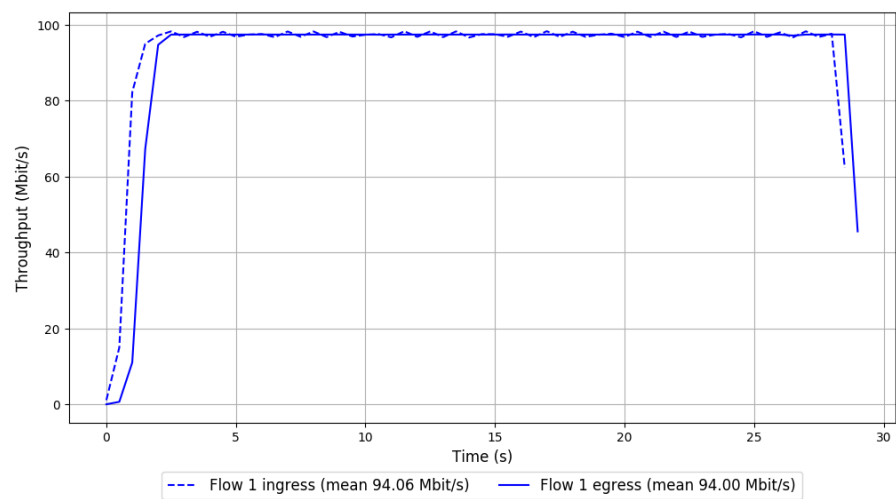
-- Flow 1:

Average throughput: 94.00 Mbit/s

95th percentile per-packet one-way delay: 105.469 ms

Loss rate: 0.68%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-02-11 23:36:39

End at: 2019-02-11 23:37:09

Local clock offset: -7.852 ms

Remote clock offset: 3.742 ms

Below is generated by plot.py at 2019-02-12 00:46:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.12 Mbit/s

95th percentile per-packet one-way delay: 96.408 ms

Loss rate: 0.55%

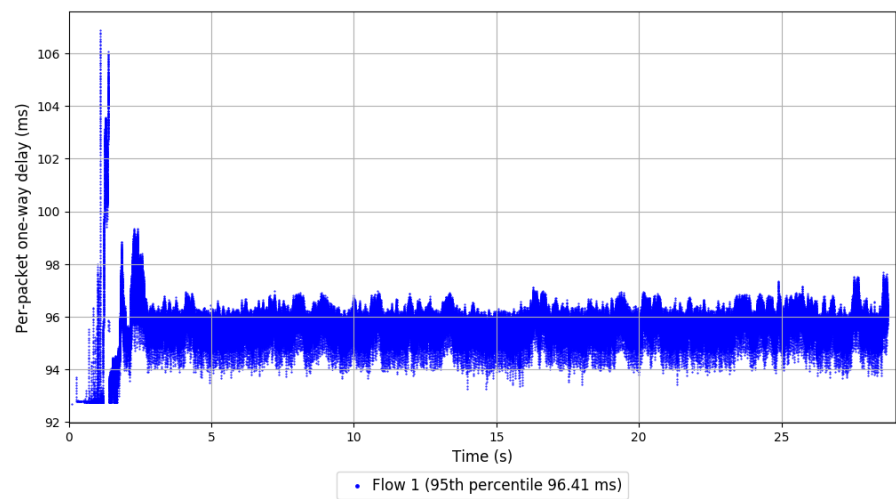
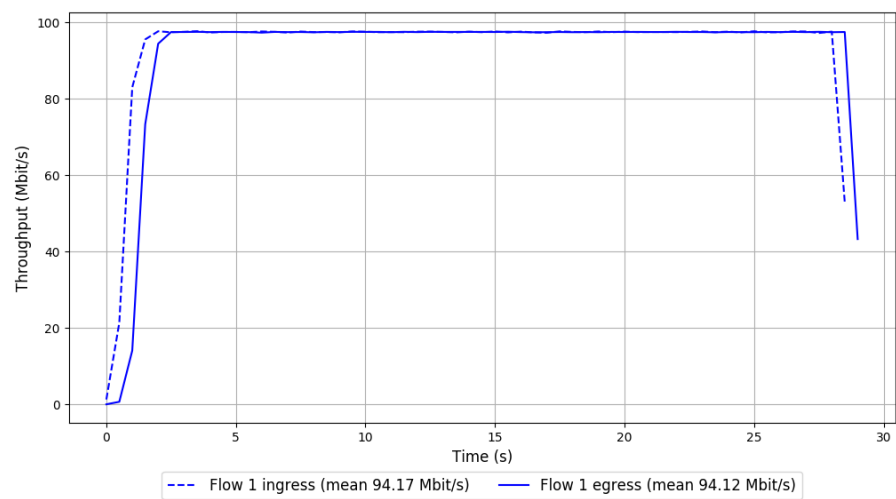
-- Flow 1:

Average throughput: 94.12 Mbit/s

95th percentile per-packet one-way delay: 96.408 ms

Loss rate: 0.55%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-02-12 00:02:20

End at: 2019-02-12 00:02:50

Local clock offset: -6.605 ms

Remote clock offset: 3.17 ms

Below is generated by plot.py at 2019-02-12 00:47:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.87 Mbit/s

95th percentile per-packet one-way delay: 107.215 ms

Loss rate: 0.01%

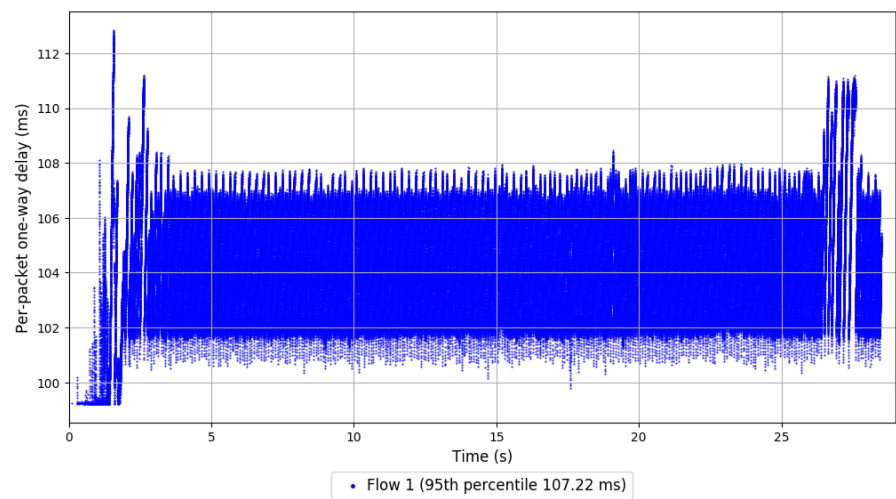
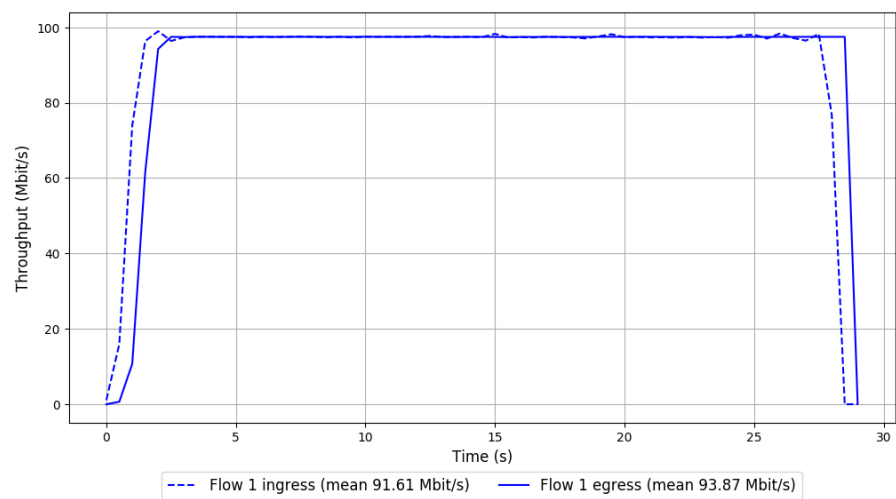
-- Flow 1:

Average throughput: 93.87 Mbit/s

95th percentile per-packet one-way delay: 107.215 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-02-12 00:28:20

End at: 2019-02-12 00:28:50

Local clock offset: -7.014 ms

Remote clock offset: 3.494 ms

Below is generated by plot.py at 2019-02-12 00:47:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.06 Mbit/s

95th percentile per-packet one-way delay: 100.890 ms

Loss rate: 0.63%

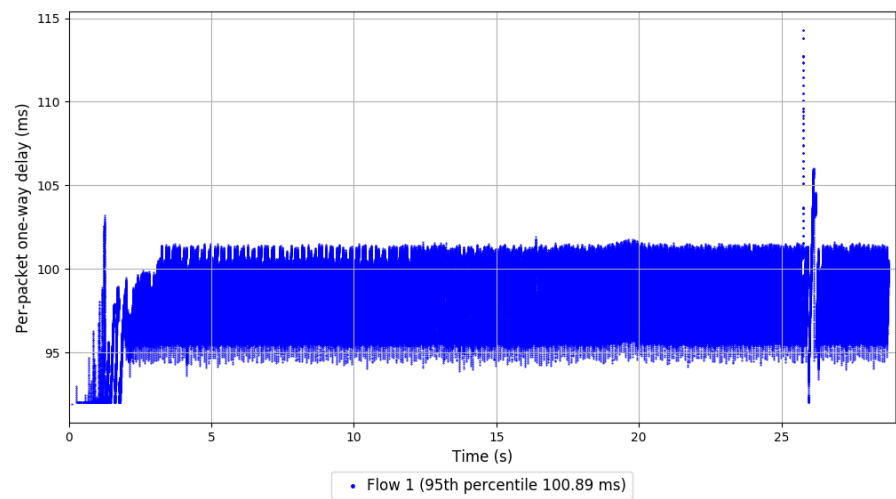
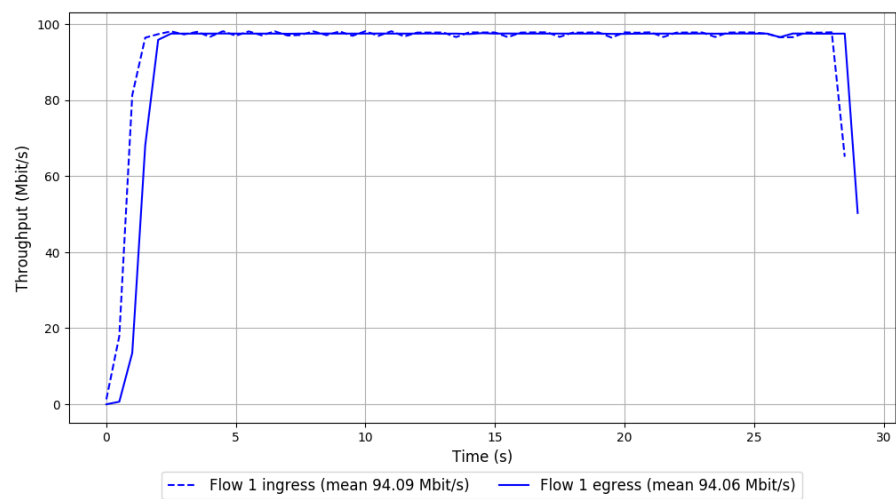
-- Flow 1:

Average throughput: 94.06 Mbit/s

95th percentile per-packet one-way delay: 100.890 ms

Loss rate: 0.63%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-02-11 22:51:14

End at: 2019-02-11 22:51:44

Local clock offset: -0.571 ms

Remote clock offset: 9.35 ms

Below is generated by plot.py at 2019-02-12 00:47:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.18 Mbit/s

95th percentile per-packet one-way delay: 116.728 ms

Loss rate: 7.59%

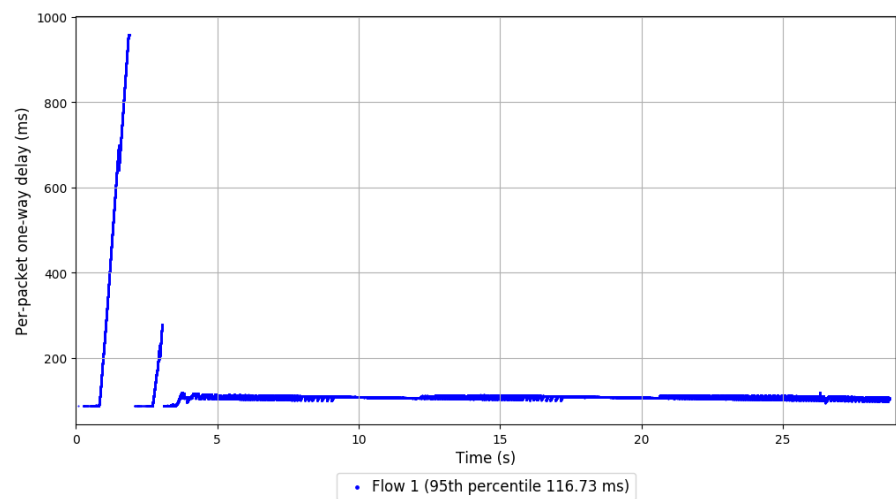
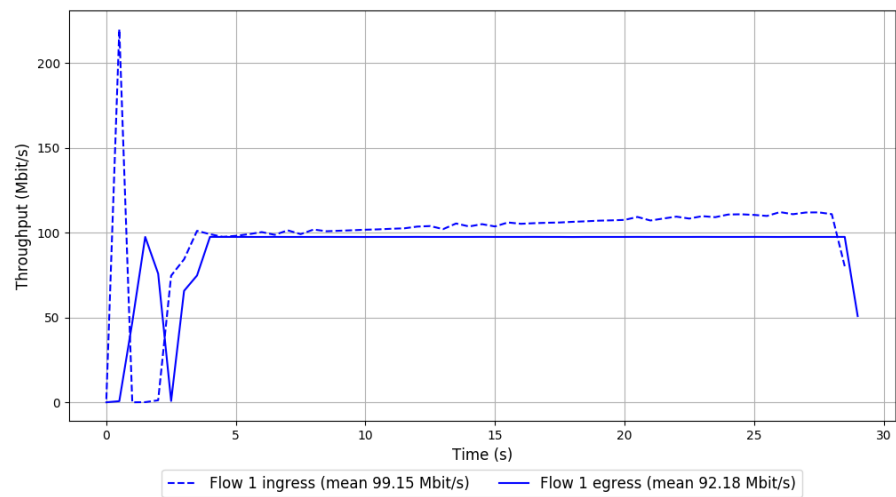
-- Flow 1:

Average throughput: 92.18 Mbit/s

95th percentile per-packet one-way delay: 116.728 ms

Loss rate: 7.59%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-02-11 23:16:12

End at: 2019-02-11 23:16:42

Local clock offset: -5.536 ms

Remote clock offset: 3.891 ms

Below is generated by plot.py at 2019-02-12 00:47:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.09 Mbit/s

95th percentile per-packet one-way delay: 118.530 ms

Loss rate: 8.14%

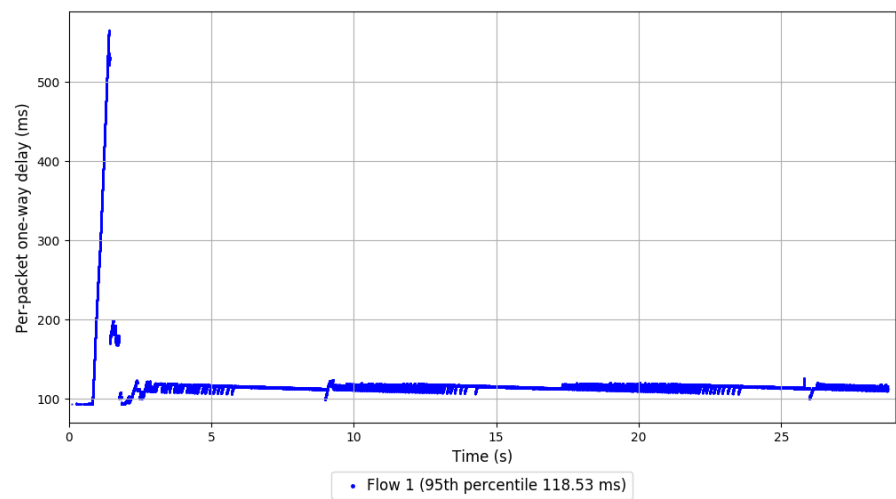
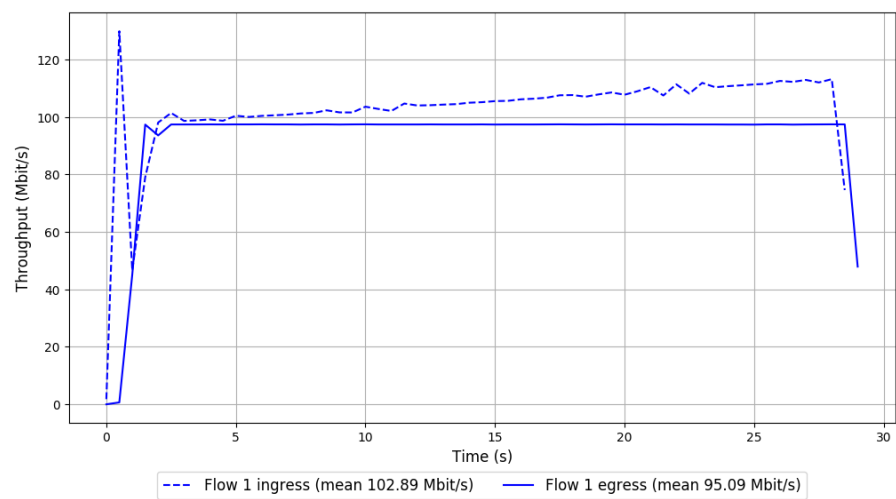
-- Flow 1:

Average throughput: 95.09 Mbit/s

95th percentile per-packet one-way delay: 118.530 ms

Loss rate: 8.14%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-02-11 23:42:50

End at: 2019-02-11 23:43:20

Local clock offset: -6.558 ms

Remote clock offset: 3.589 ms

Below is generated by plot.py at 2019-02-12 00:47:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.07 Mbit/s

95th percentile per-packet one-way delay: 121.393 ms

Loss rate: 7.16%

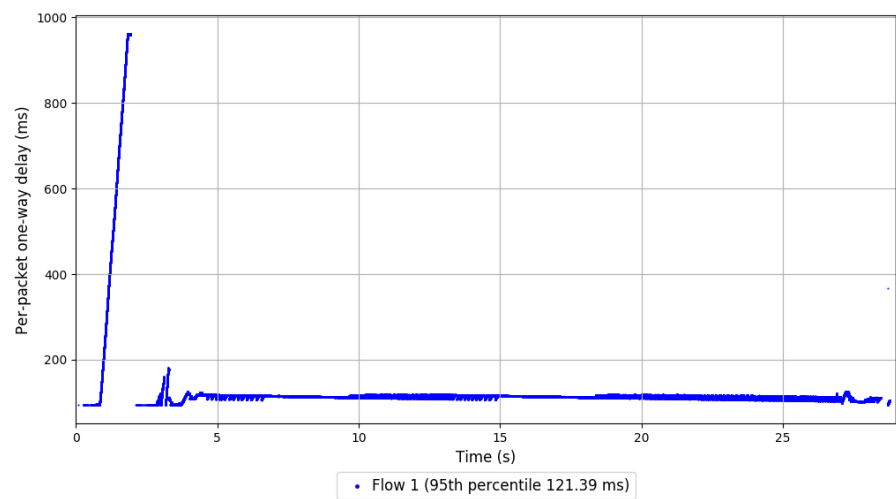
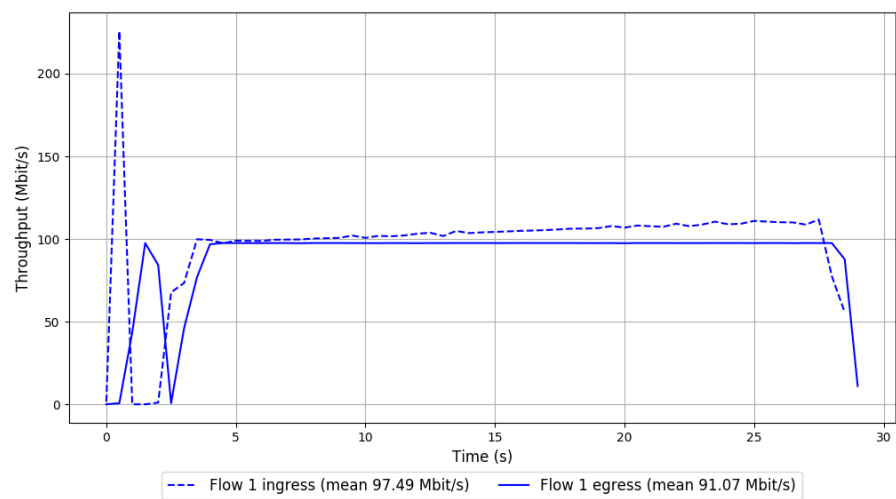
-- Flow 1:

Average throughput: 91.07 Mbit/s

95th percentile per-packet one-way delay: 121.393 ms

Loss rate: 7.16%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-02-12 00:08:27

End at: 2019-02-12 00:08:57

Local clock offset: -7.118 ms

Remote clock offset: 8.077 ms

Below is generated by plot.py at 2019-02-12 00:47:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.64 Mbit/s

95th percentile per-packet one-way delay: 114.288 ms

Loss rate: 7.47%

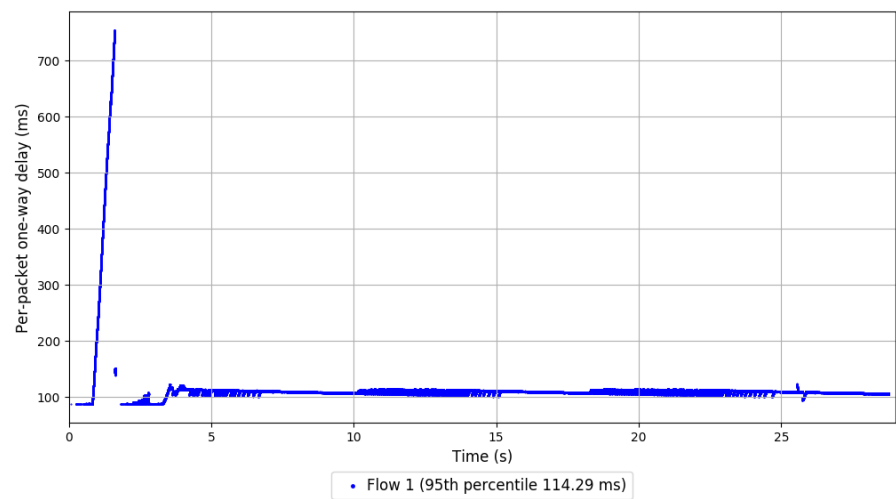
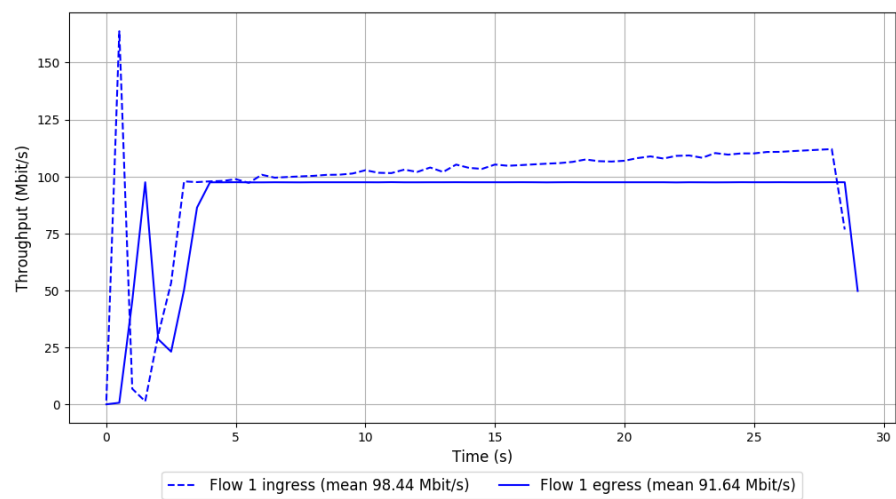
-- Flow 1:

Average throughput: 91.64 Mbit/s

95th percentile per-packet one-way delay: 114.288 ms

Loss rate: 7.47%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-02-12 00:34:18

End at: 2019-02-12 00:34:48

Local clock offset: -7.134 ms

Remote clock offset: 3.093 ms

Below is generated by plot.py at 2019-02-12 00:47:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.30 Mbit/s

95th percentile per-packet one-way delay: 123.990 ms

Loss rate: 7.48%

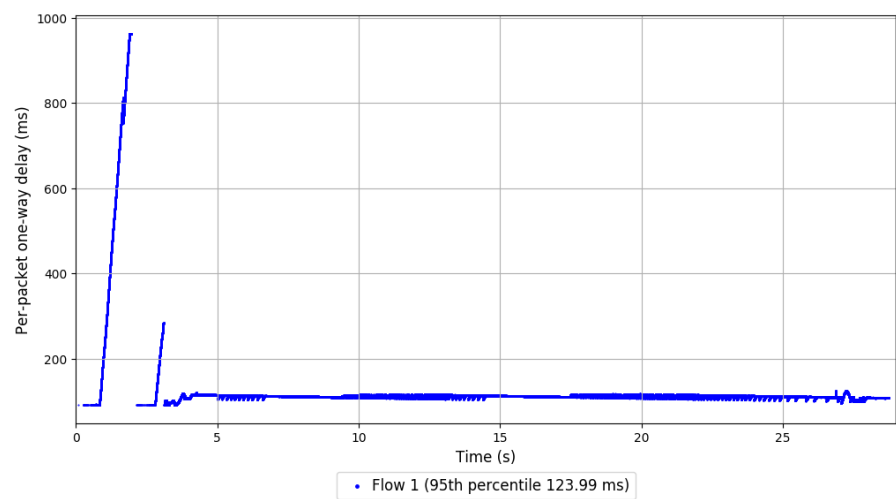
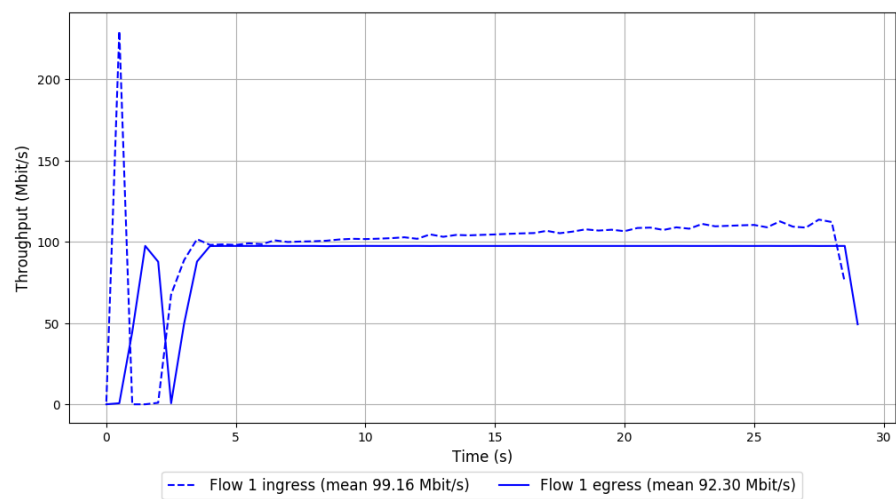
-- Flow 1:

Average throughput: 92.30 Mbit/s

95th percentile per-packet one-way delay: 123.990 ms

Loss rate: 7.48%

Run 5: Report of Indigo-MusesT — Data Link

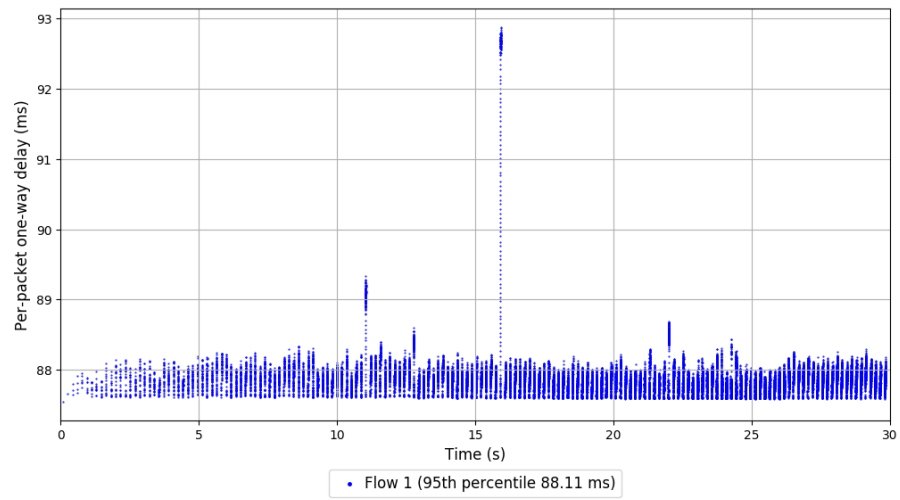
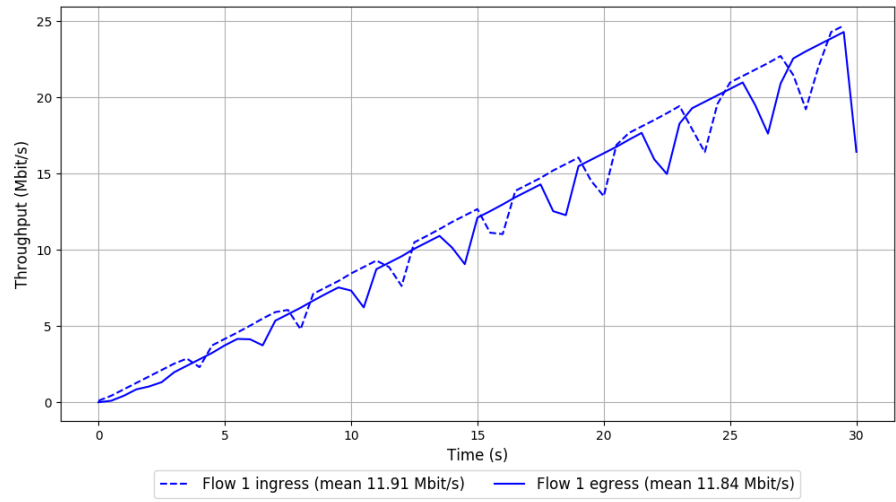


```
Run 1: Statistics of LEDBAT

Start at: 2019-02-11 22:44:10
End at: 2019-02-11 22:44:40
Local clock offset: -1.011 ms
Remote clock offset: 9.116 ms

# Below is generated by plot.py at 2019-02-12 00:47:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.84 Mbit/s
95th percentile per-packet one-way delay: 88.115 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 11.84 Mbit/s
95th percentile per-packet one-way delay: 88.115 ms
Loss rate: 1.16%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-02-11 23:09:09

End at: 2019-02-11 23:09:39

Local clock offset: -2.965 ms

Remote clock offset: 9.33 ms

Below is generated by plot.py at 2019-02-12 00:47:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.99 Mbit/s

95th percentile per-packet one-way delay: 88.420 ms

Loss rate: 1.15%

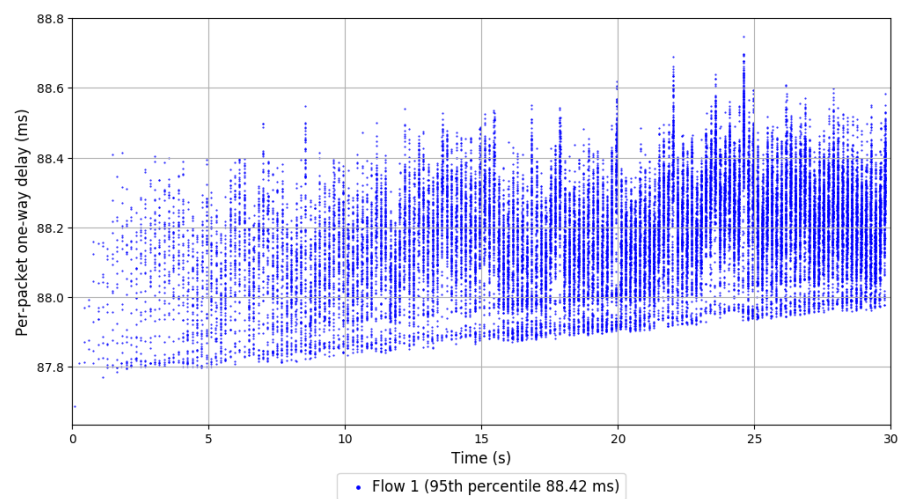
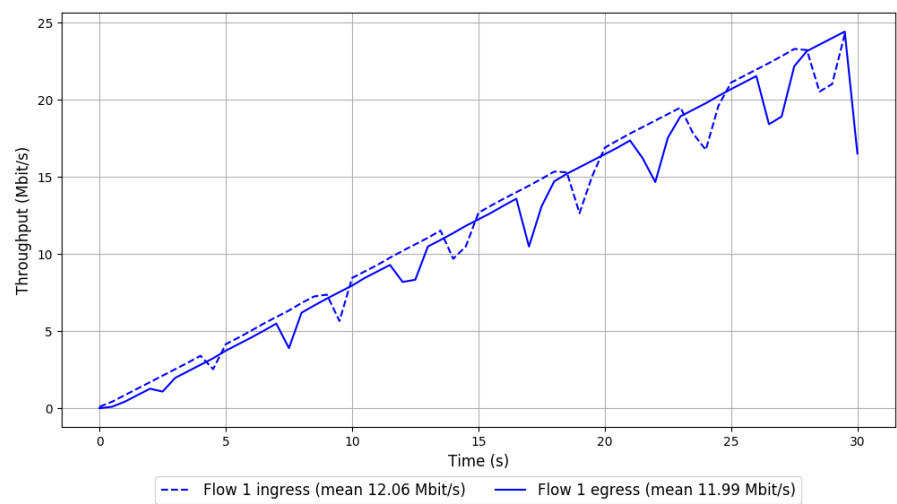
-- Flow 1:

Average throughput: 11.99 Mbit/s

95th percentile per-packet one-way delay: 88.420 ms

Loss rate: 1.15%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-02-11 23:35:30

End at: 2019-02-11 23:36:00

Local clock offset: -7.984 ms

Remote clock offset: 9.027 ms

Below is generated by plot.py at 2019-02-12 00:47:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.08 Mbit/s

95th percentile per-packet one-way delay: 87.232 ms

Loss rate: 1.31%

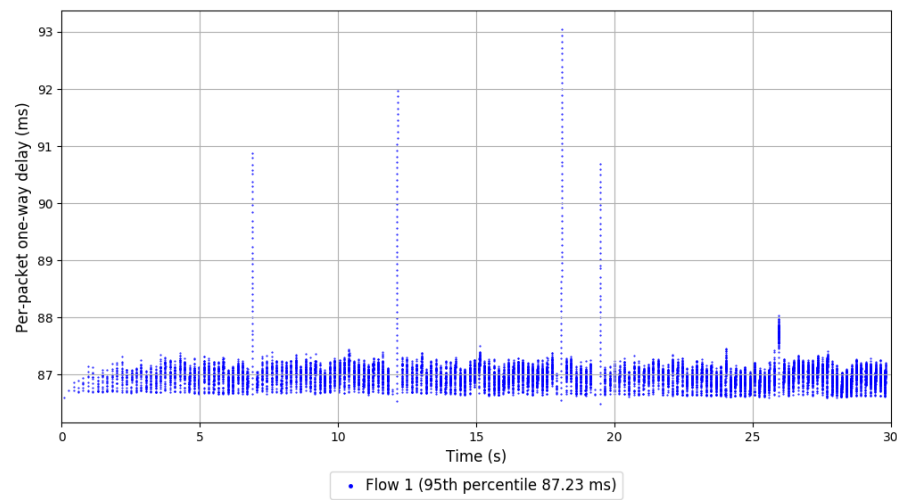
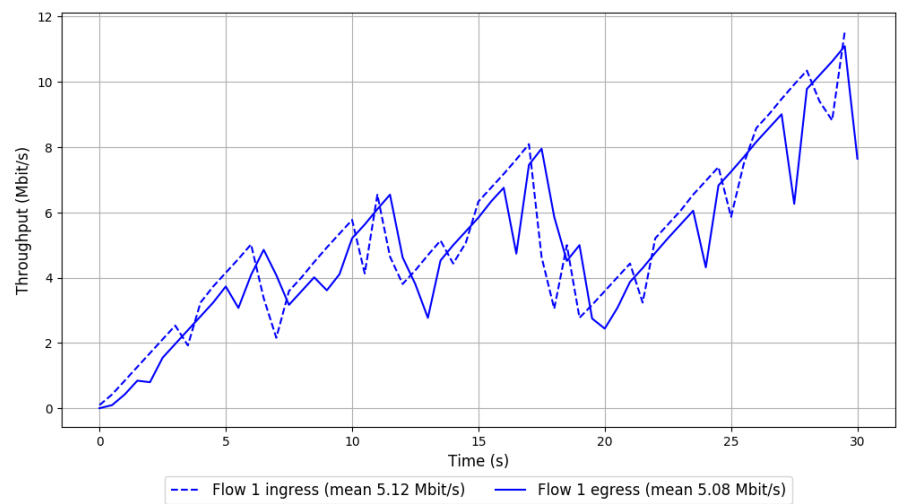
-- Flow 1:

Average throughput: 5.08 Mbit/s

95th percentile per-packet one-way delay: 87.232 ms

Loss rate: 1.31%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-02-12 00:01:11

End at: 2019-02-12 00:01:41

Local clock offset: -6.645 ms

Remote clock offset: 3.452 ms

Below is generated by plot.py at 2019-02-12 00:47:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 93.246 ms

Loss rate: 1.28%

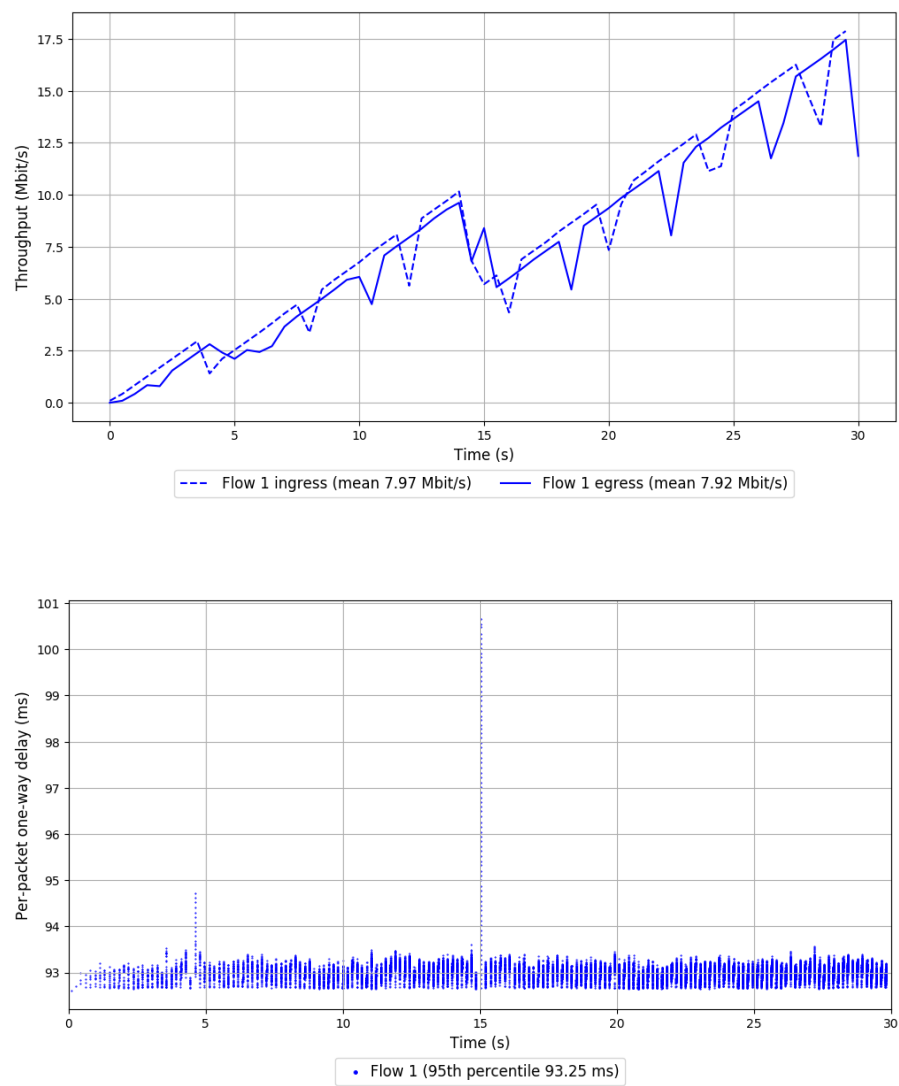
-- Flow 1:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 93.246 ms

Loss rate: 1.28%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-02-12 00:27:11

End at: 2019-02-12 00:27:41

Local clock offset: -6.236 ms

Remote clock offset: 8.342 ms

Below is generated by plot.py at 2019-02-12 00:47:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.63 Mbit/s

95th percentile per-packet one-way delay: 89.013 ms

Loss rate: 1.17%

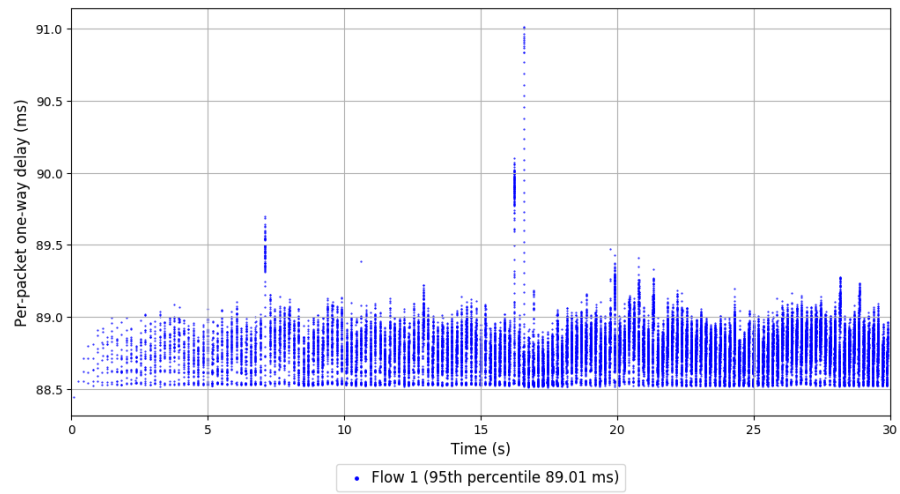
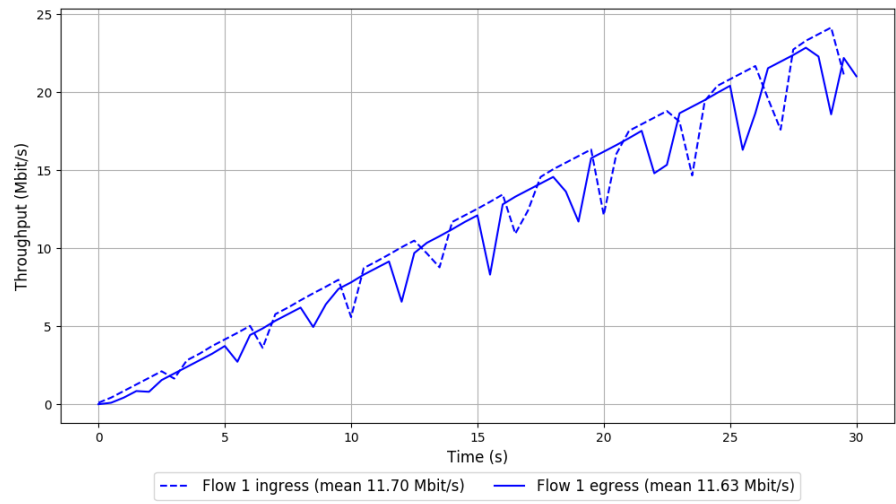
-- Flow 1:

Average throughput: 11.63 Mbit/s

95th percentile per-packet one-way delay: 89.013 ms

Loss rate: 1.17%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-02-11 22:42:59

End at: 2019-02-11 22:43:29

Local clock offset: -0.33 ms

Remote clock offset: 3.906 ms

Below is generated by plot.py at 2019-02-12 00:48:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.58 Mbit/s

95th percentile per-packet one-way delay: 257.611 ms

Loss rate: 0.73%

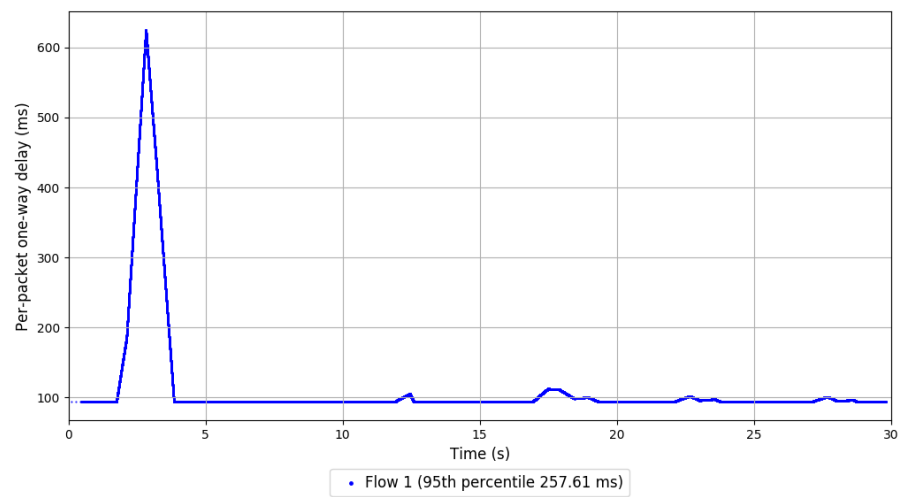
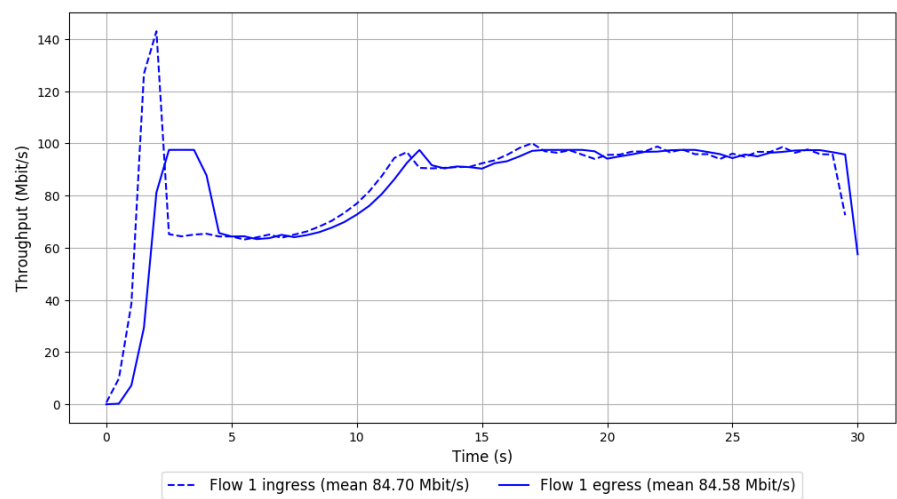
-- Flow 1:

Average throughput: 84.58 Mbit/s

95th percentile per-packet one-way delay: 257.611 ms

Loss rate: 0.73%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-02-11 23:07:58

End at: 2019-02-11 23:08:28

Local clock offset: -2.343 ms

Remote clock offset: 4.185 ms

Below is generated by plot.py at 2019-02-12 00:48:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.80 Mbit/s

95th percentile per-packet one-way delay: 262.873 ms

Loss rate: 0.74%

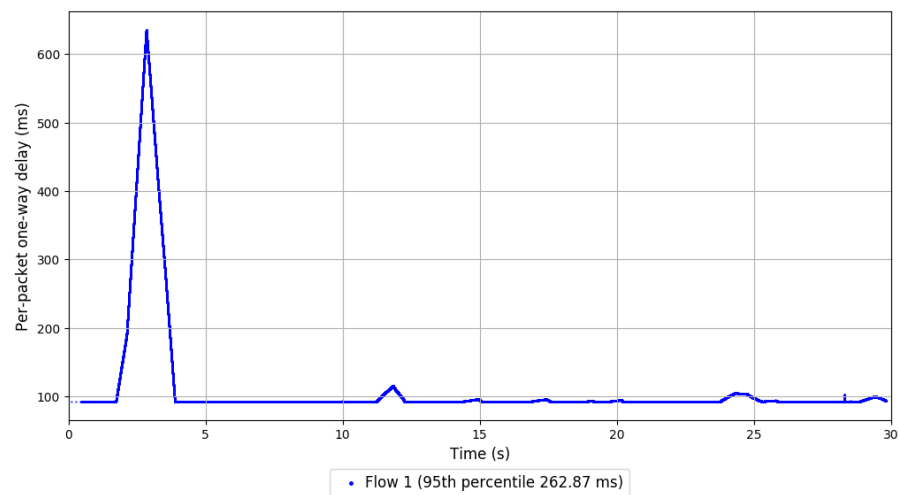
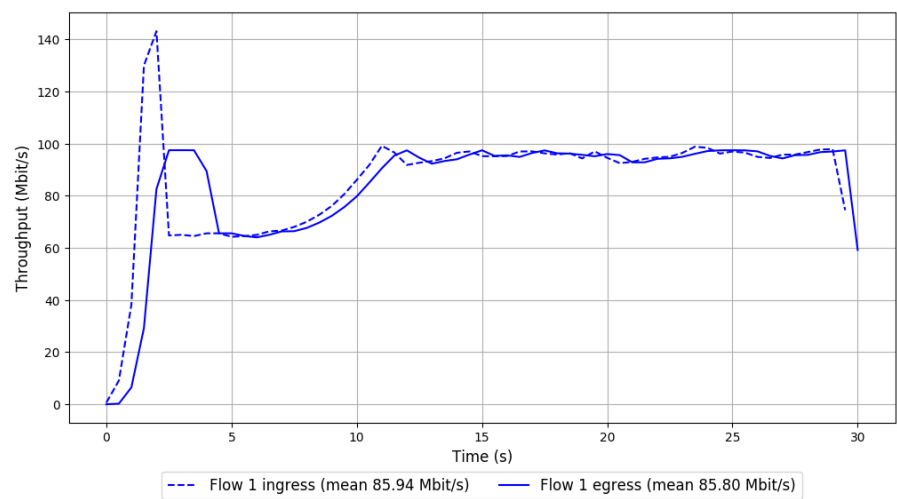
-- Flow 1:

Average throughput: 85.80 Mbit/s

95th percentile per-packet one-way delay: 262.873 ms

Loss rate: 0.74%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-02-11 23:34:16

End at: 2019-02-11 23:34:46

Local clock offset: -7.481 ms

Remote clock offset: 8.987 ms

Below is generated by plot.py at 2019-02-12 00:48:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.32 Mbit/s

95th percentile per-packet one-way delay: 287.980 ms

Loss rate: 0.80%

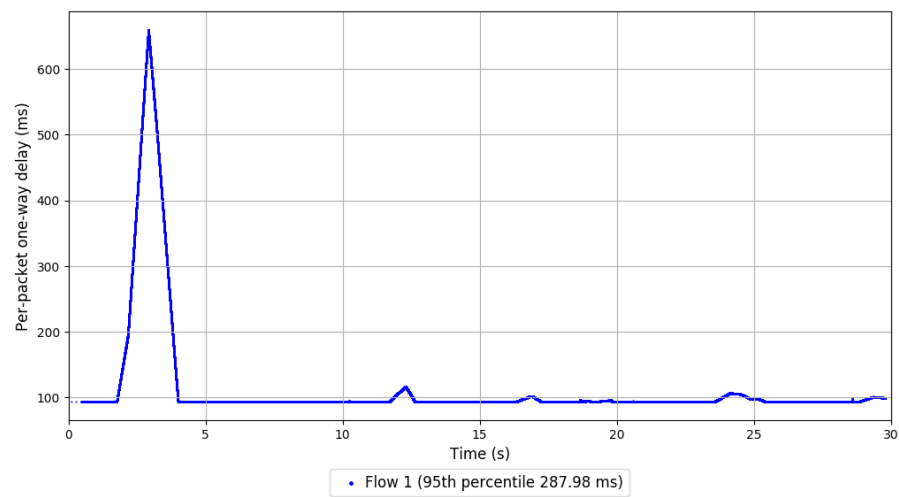
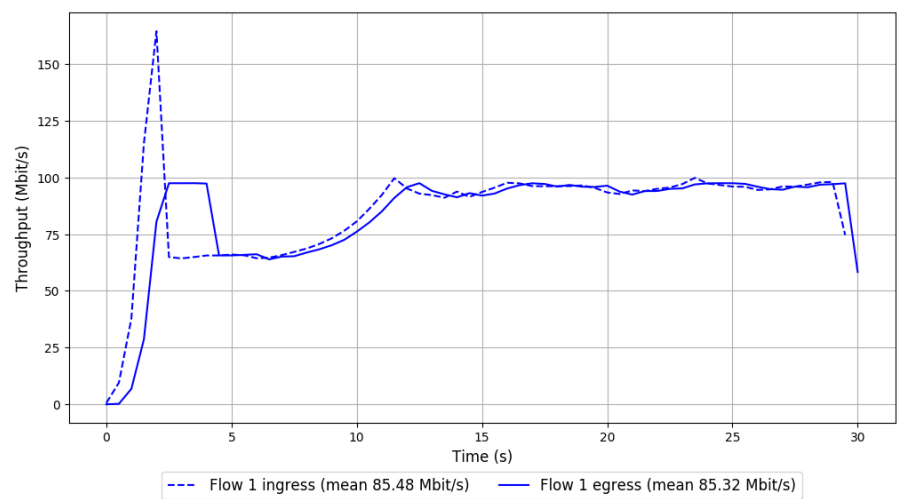
-- Flow 1:

Average throughput: 85.32 Mbit/s

95th percentile per-packet one-way delay: 287.980 ms

Loss rate: 0.80%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-02-11 23:59:59

End at: 2019-02-12 00:00:29

Local clock offset: -6.54 ms

Remote clock offset: 3.314 ms

Below is generated by plot.py at 2019-02-12 00:48:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.31 Mbit/s

95th percentile per-packet one-way delay: 275.928 ms

Loss rate: 0.80%

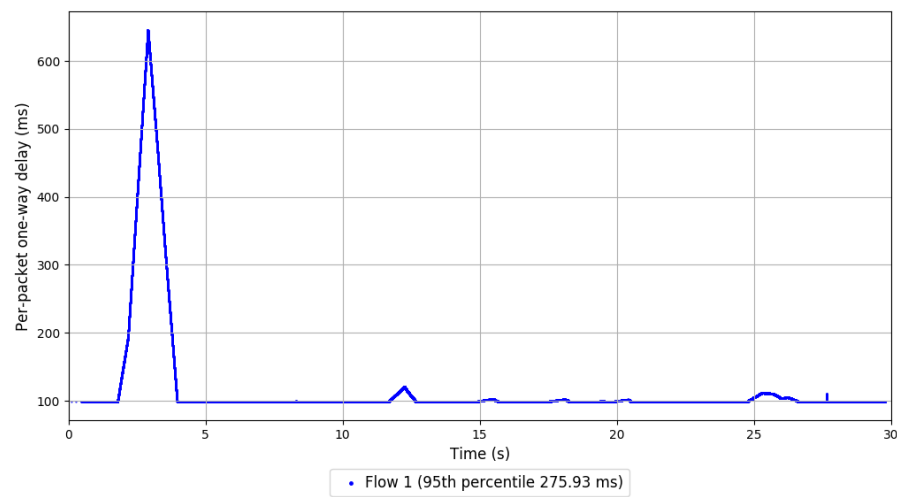
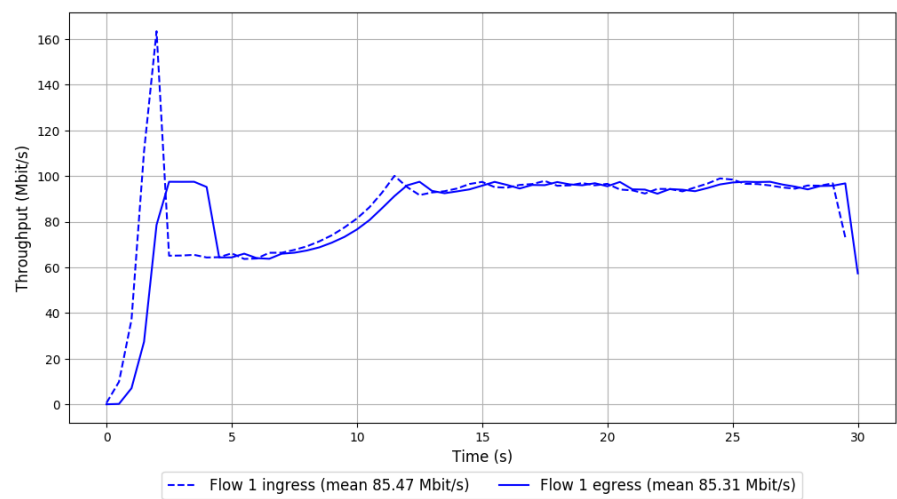
-- Flow 1:

Average throughput: 85.31 Mbit/s

95th percentile per-packet one-way delay: 275.928 ms

Loss rate: 0.80%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-02-12 00:25:58

End at: 2019-02-12 00:26:28

Local clock offset: -6.982 ms

Remote clock offset: 8.443 ms

Below is generated by plot.py at 2019-02-12 00:48:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.11 Mbit/s

95th percentile per-packet one-way delay: 234.529 ms

Loss rate: 0.71%

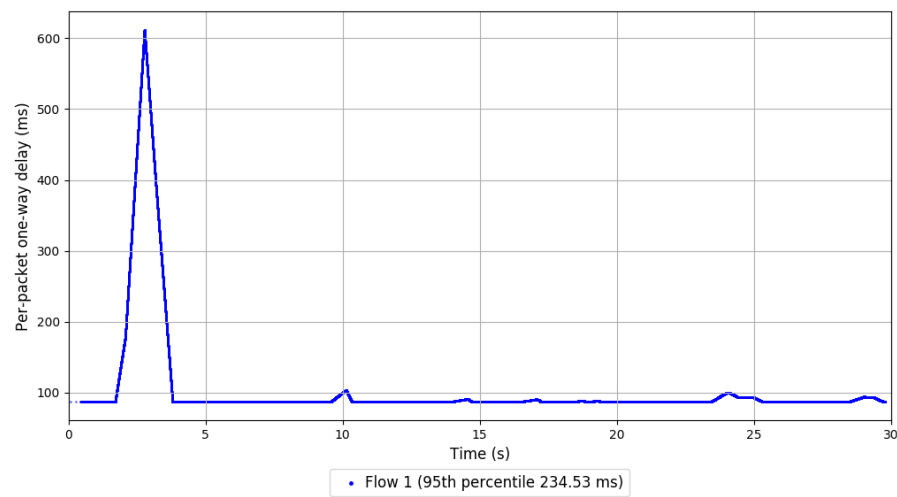
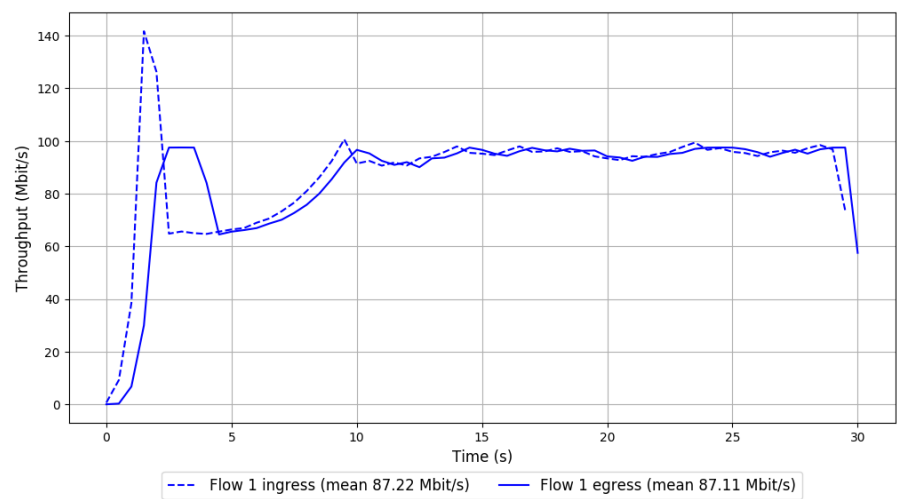
-- Flow 1:

Average throughput: 87.11 Mbit/s

95th percentile per-packet one-way delay: 234.529 ms

Loss rate: 0.71%

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2019-02-11 22:41:44

End at: 2019-02-11 22:42:14

Local clock offset: -0.394 ms

Remote clock offset: 4.139 ms

Below is generated by plot.py at 2019-02-12 00:49:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.33 Mbit/s

95th percentile per-packet one-way delay: 457.097 ms

Loss rate: 1.54%

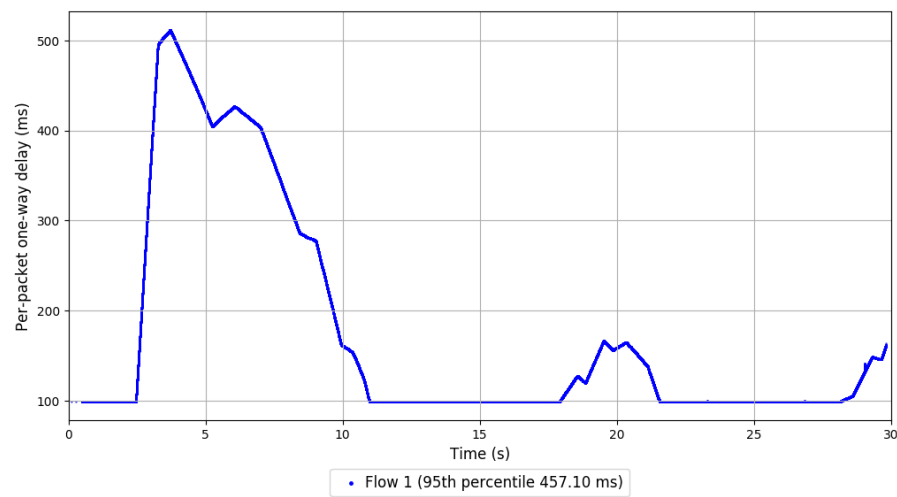
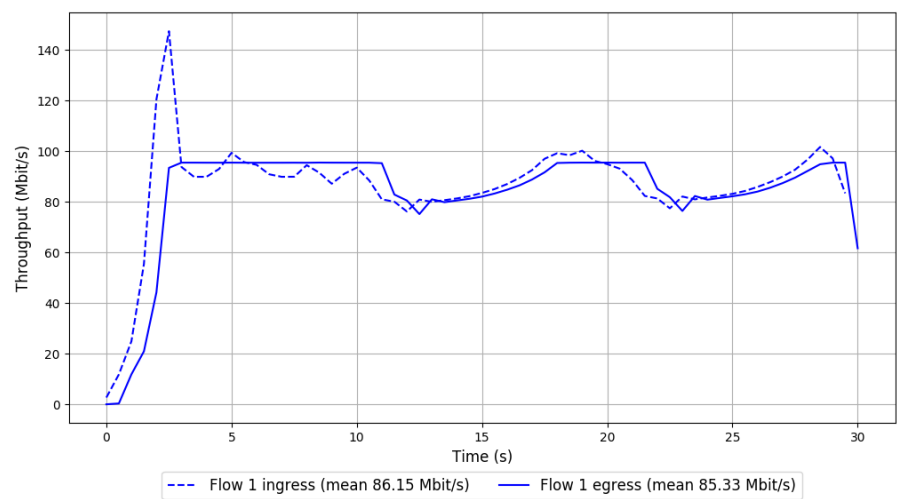
-- Flow 1:

Average throughput: 85.33 Mbit/s

95th percentile per-packet one-way delay: 457.097 ms

Loss rate: 1.54%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-02-11 23:06:43

End at: 2019-02-11 23:07:13

Local clock offset: -0.837 ms

Remote clock offset: 3.996 ms

Below is generated by plot.py at 2019-02-12 00:49:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.03 Mbit/s

95th percentile per-packet one-way delay: 465.482 ms

Loss rate: 1.38%

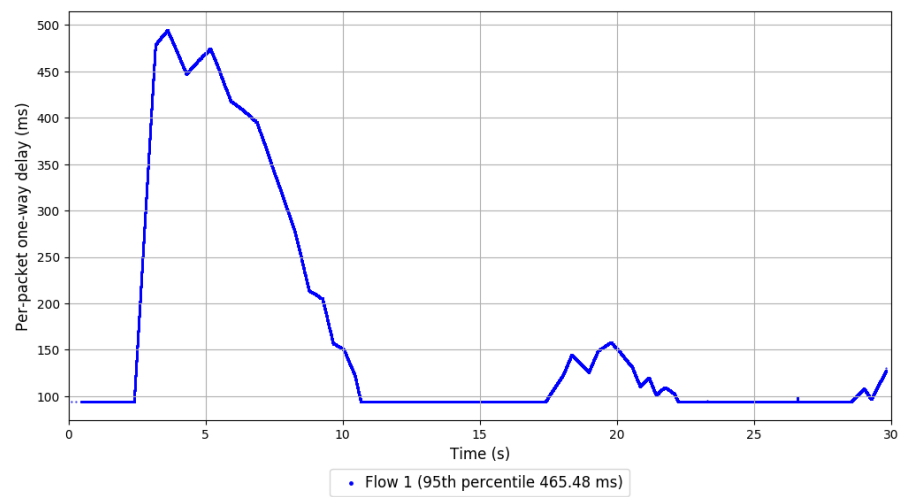
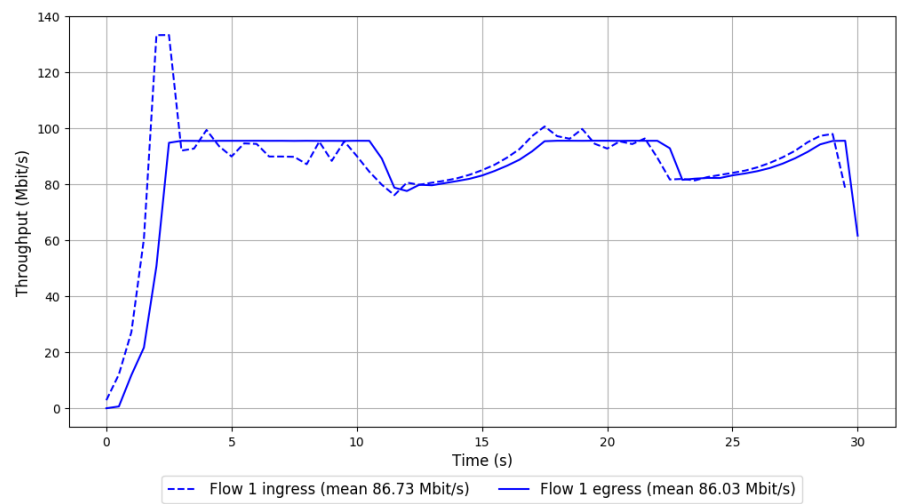
-- Flow 1:

Average throughput: 86.03 Mbit/s

95th percentile per-packet one-way delay: 465.482 ms

Loss rate: 1.38%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-02-11 23:32:43

End at: 2019-02-11 23:33:13

Local clock offset: -7.279 ms

Remote clock offset: 3.942 ms

Below is generated by plot.py at 2019-02-12 00:49:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.10 Mbit/s

95th percentile per-packet one-way delay: 451.688 ms

Loss rate: 1.34%

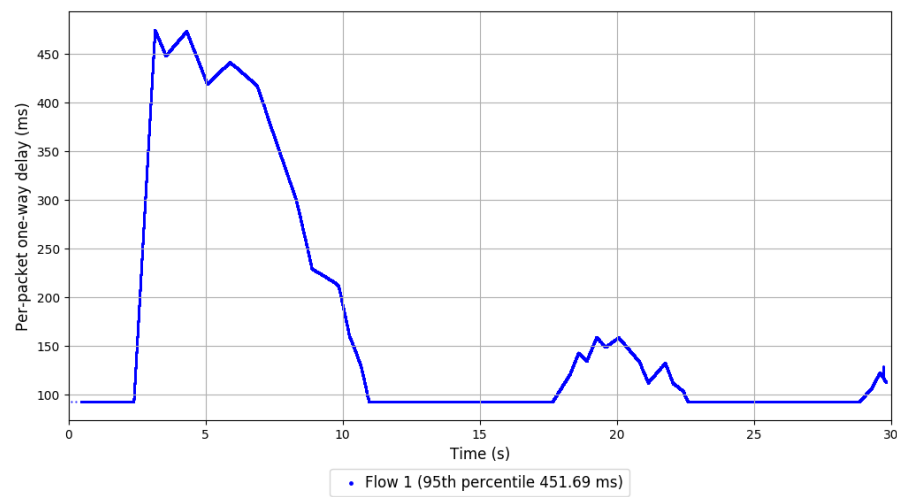
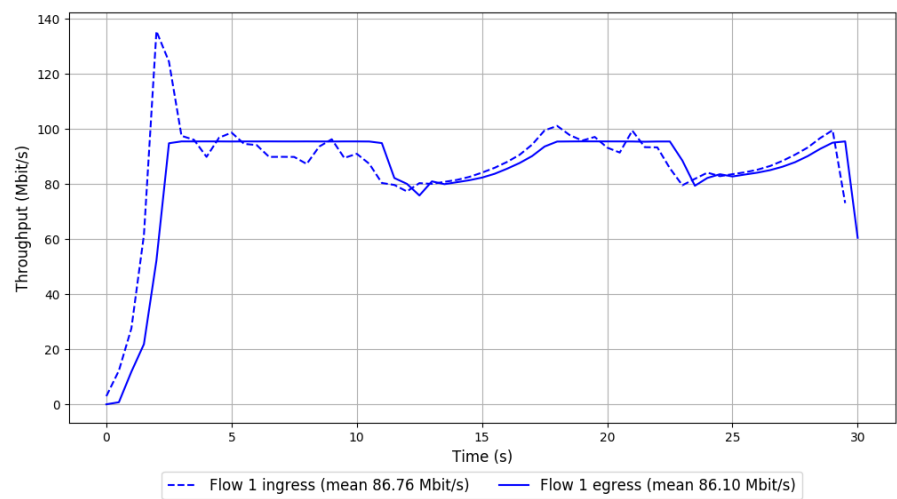
-- Flow 1:

Average throughput: 86.10 Mbit/s

95th percentile per-packet one-way delay: 451.688 ms

Loss rate: 1.34%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-02-11 23:58:40

End at: 2019-02-11 23:59:10

Local clock offset: -7.25 ms

Remote clock offset: 8.731 ms

Below is generated by plot.py at 2019-02-12 00:50:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.97 Mbit/s

95th percentile per-packet one-way delay: 426.866 ms

Loss rate: 1.12%

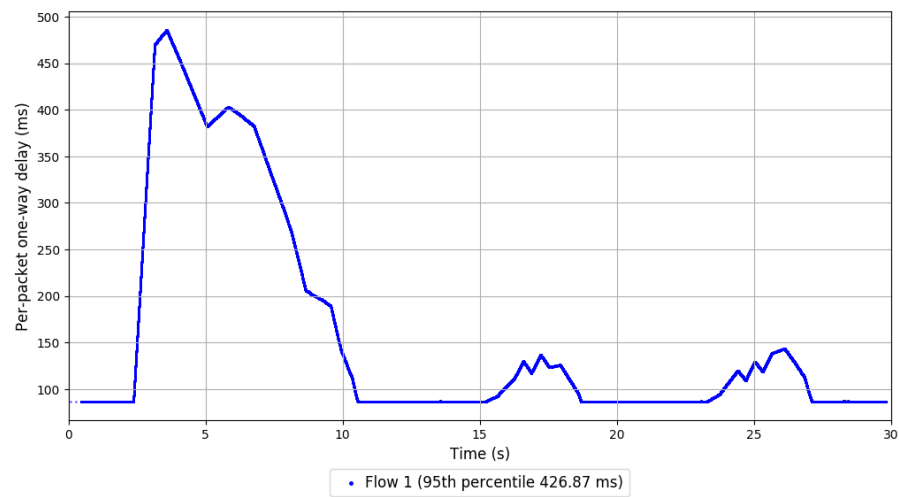
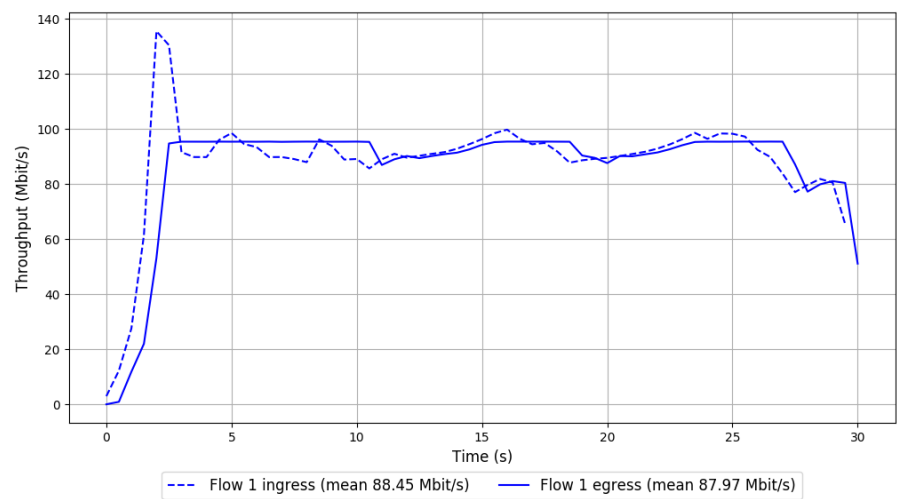
-- Flow 1:

Average throughput: 87.97 Mbit/s

95th percentile per-packet one-way delay: 426.866 ms

Loss rate: 1.12%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-02-12 00:24:36

End at: 2019-02-12 00:25:06

Local clock offset: -7.013 ms

Remote clock offset: 8.401 ms

Below is generated by plot.py at 2019-02-12 00:50:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.30 Mbit/s

95th percentile per-packet one-way delay: 410.166 ms

Loss rate: 1.61%

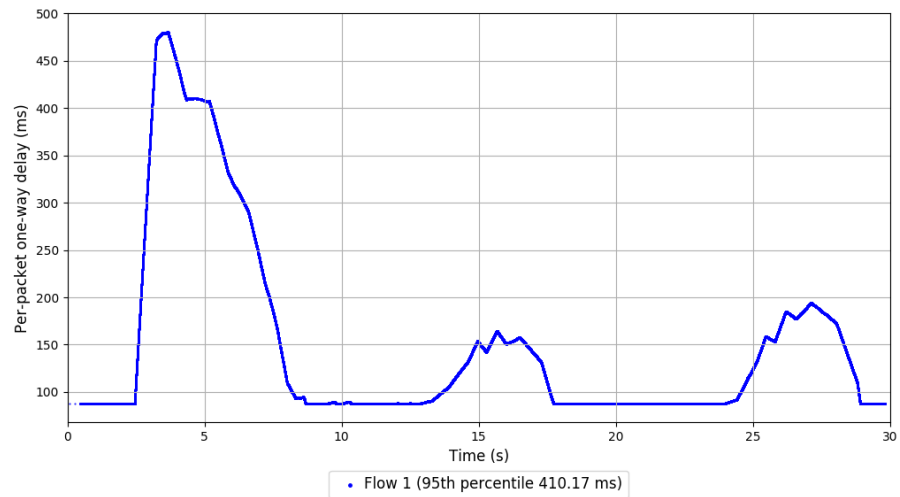
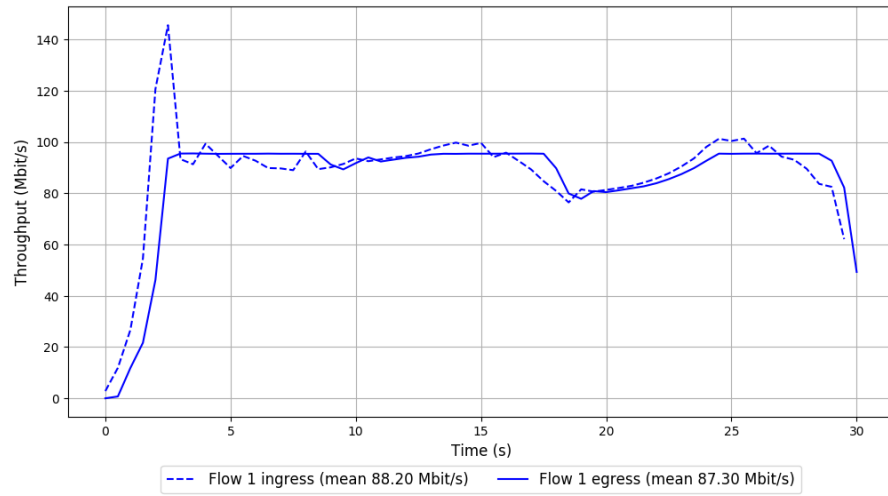
-- Flow 1:

Average throughput: 87.30 Mbit/s

95th percentile per-packet one-way delay: 410.166 ms

Loss rate: 1.61%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-02-11 22:50:03

End at: 2019-02-11 22:50:33

Local clock offset: -0.643 ms

Remote clock offset: 9.379 ms

Below is generated by plot.py at 2019-02-12 00:50:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.26 Mbit/s

95th percentile per-packet one-way delay: 92.898 ms

Loss rate: 0.85%

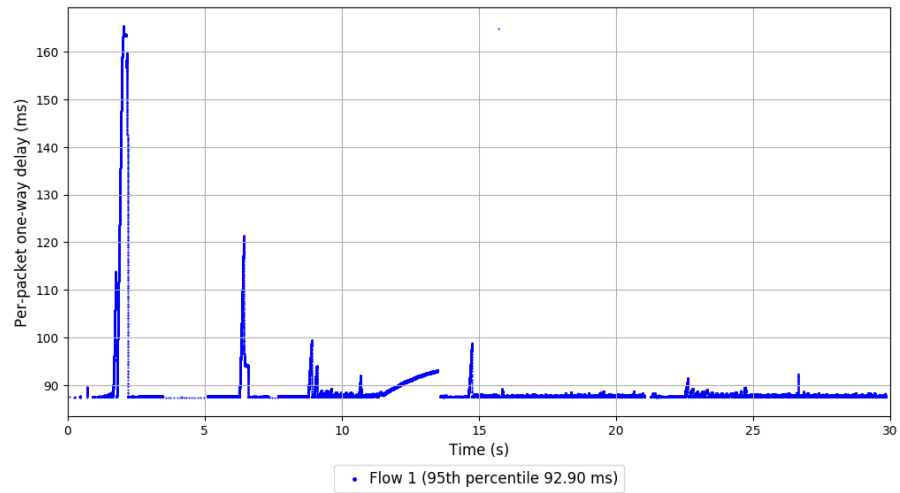
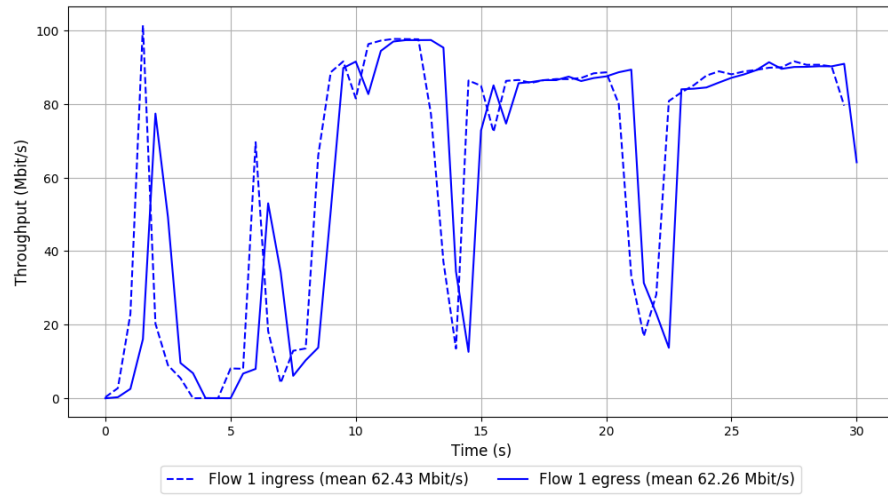
-- Flow 1:

Average throughput: 62.26 Mbit/s

95th percentile per-packet one-way delay: 92.898 ms

Loss rate: 0.85%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-02-11 23:15:02

End at: 2019-02-11 23:15:32

Local clock offset: -5.274 ms

Remote clock offset: 3.743 ms

Below is generated by plot.py at 2019-02-12 00:50:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.56 Mbit/s

95th percentile per-packet one-way delay: 104.927 ms

Loss rate: 0.72%

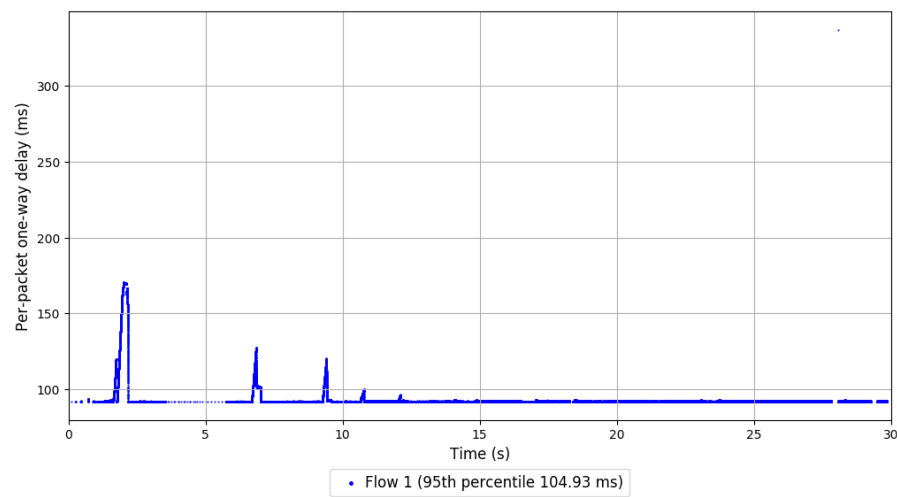
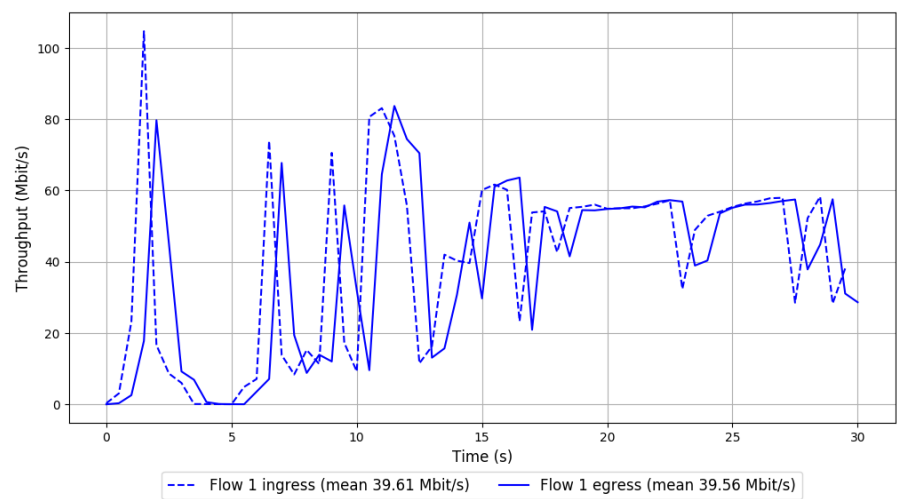
-- Flow 1:

Average throughput: 39.56 Mbit/s

95th percentile per-packet one-way delay: 104.927 ms

Loss rate: 0.72%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-02-11 23:41:38

End at: 2019-02-11 23:42:08

Local clock offset: -6.617 ms

Remote clock offset: 3.796 ms

Below is generated by plot.py at 2019-02-12 00:50:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.32 Mbit/s

95th percentile per-packet one-way delay: 131.462 ms

Loss rate: 0.43%

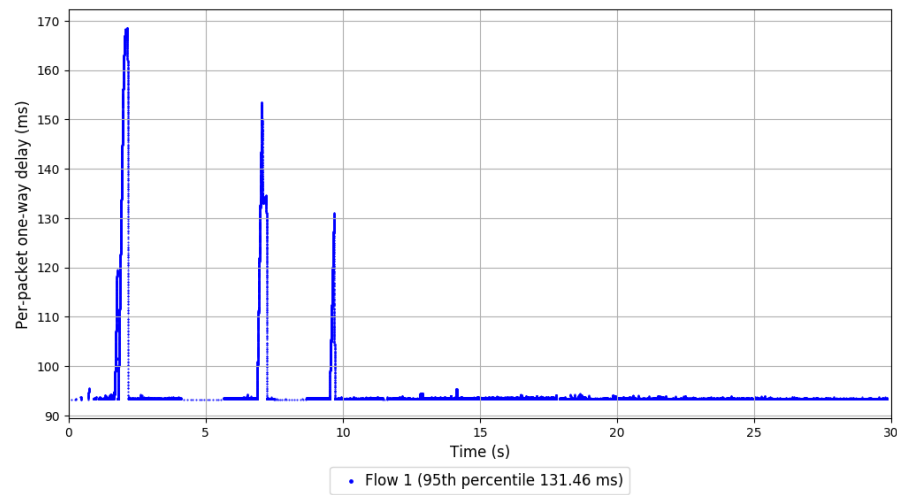
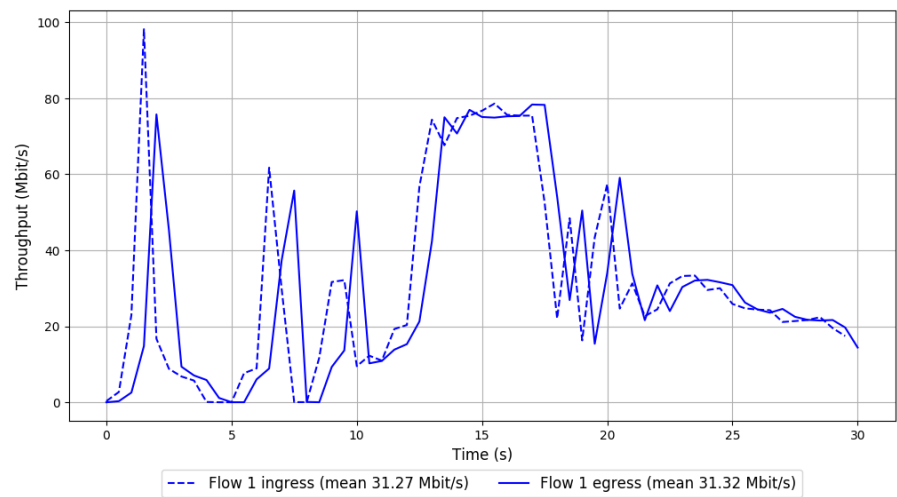
-- Flow 1:

Average throughput: 31.32 Mbit/s

95th percentile per-packet one-way delay: 131.462 ms

Loss rate: 0.43%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-02-12 00:07:16

End at: 2019-02-12 00:07:46

Local clock offset: -7.188 ms

Remote clock offset: 3.353 ms

Below is generated by plot.py at 2019-02-12 00:50:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.45 Mbit/s

95th percentile per-packet one-way delay: 103.784 ms

Loss rate: 0.54%

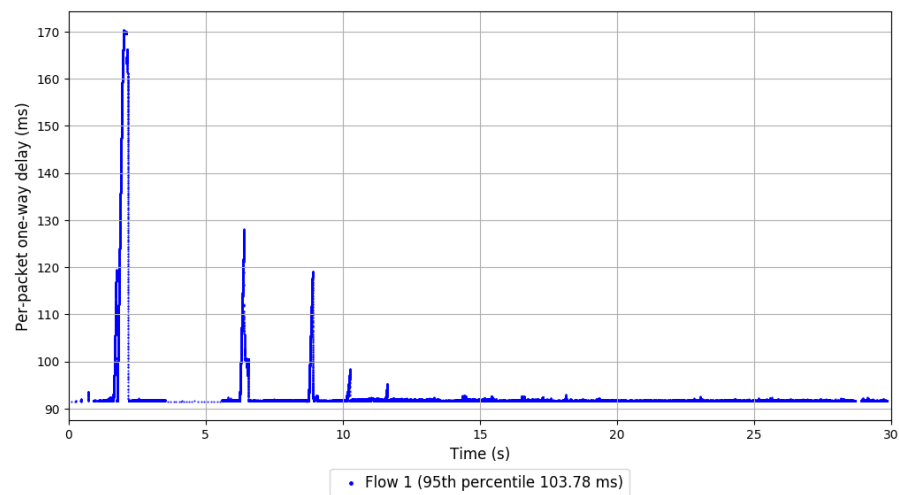
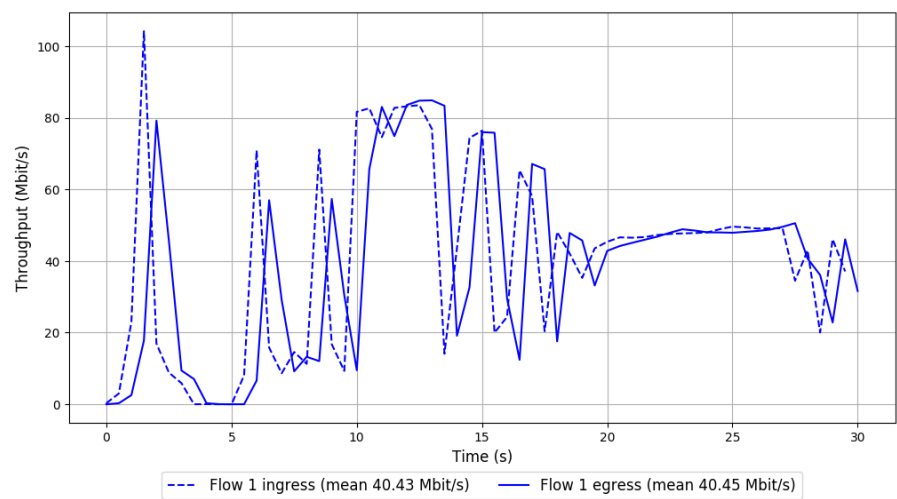
-- Flow 1:

Average throughput: 40.45 Mbit/s

95th percentile per-packet one-way delay: 103.784 ms

Loss rate: 0.54%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-02-12 00:33:07

End at: 2019-02-12 00:33:37

Local clock offset: -7.155 ms

Remote clock offset: 3.374 ms

Below is generated by plot.py at 2019-02-12 00:50:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.46 Mbit/s

95th percentile per-packet one-way delay: 102.910 ms

Loss rate: 0.71%

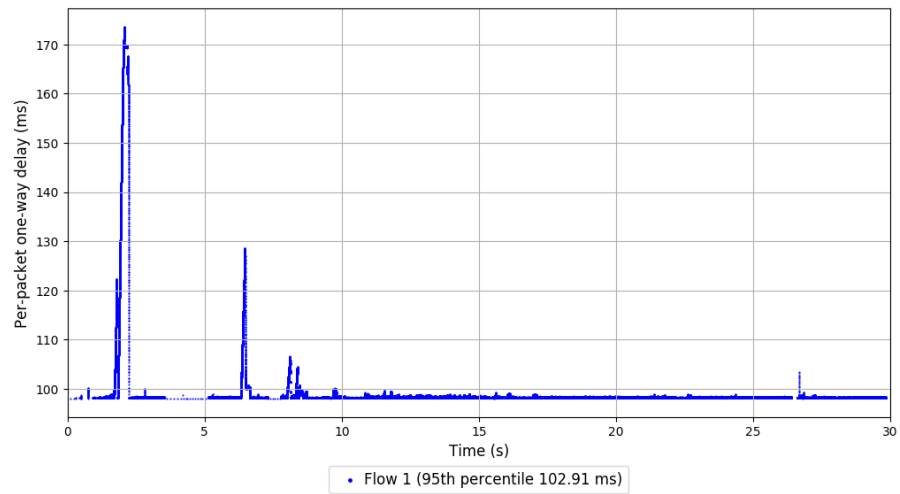
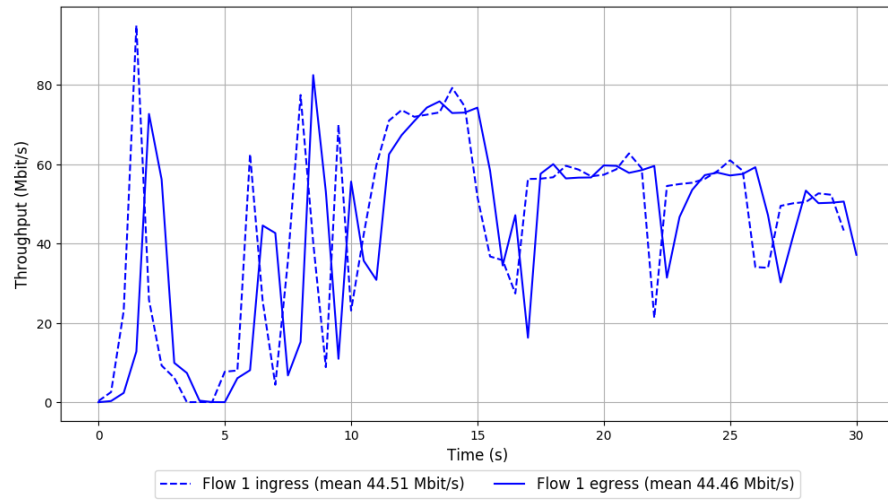
-- Flow 1:

Average throughput: 44.46 Mbit/s

95th percentile per-packet one-way delay: 102.910 ms

Loss rate: 0.71%

Run 5: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2019-02-11 22:46:31

End at: 2019-02-11 22:47:02

Local clock offset: -0.079 ms

Remote clock offset: 3.972 ms

Below is generated by plot.py at 2019-02-12 00:50:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 92.921 ms

Loss rate: 0.64%

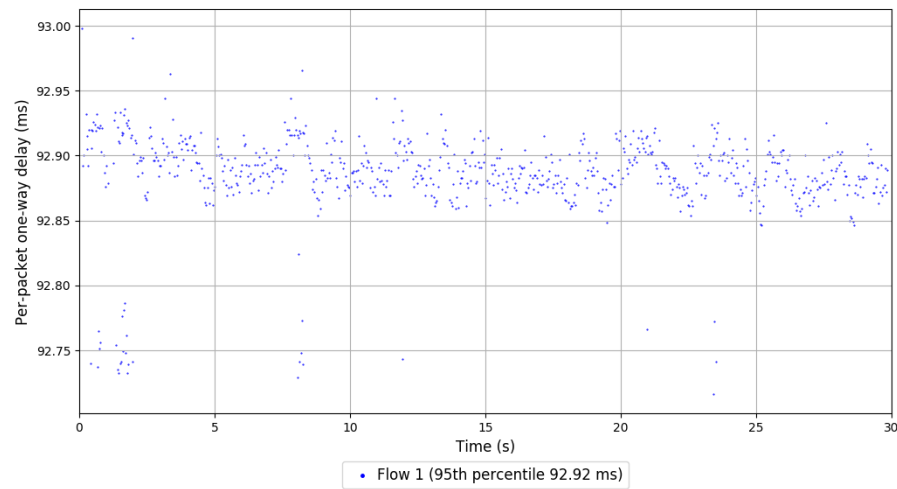
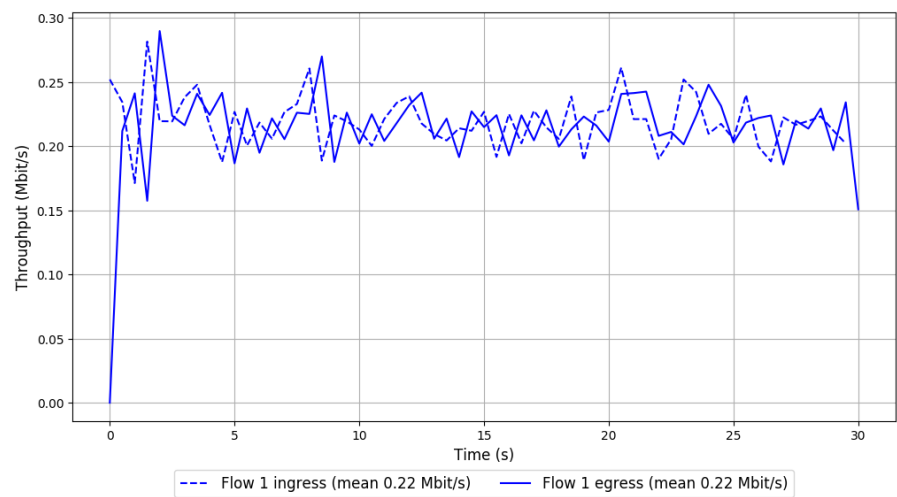
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 92.921 ms

Loss rate: 0.64%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-02-11 23:11:29

End at: 2019-02-11 23:11:59

Local clock offset: -4.017 ms

Remote clock offset: 8.966 ms

Below is generated by plot.py at 2019-02-12 00:50:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 88.167 ms

Loss rate: 0.51%

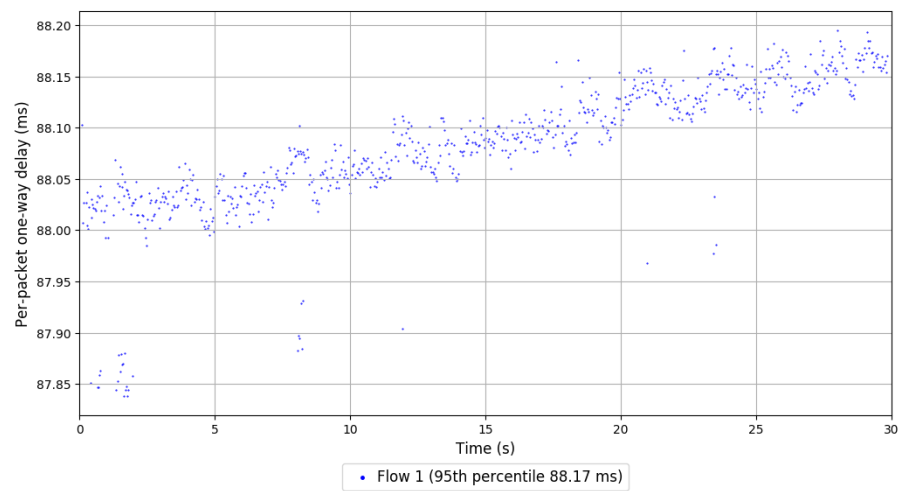
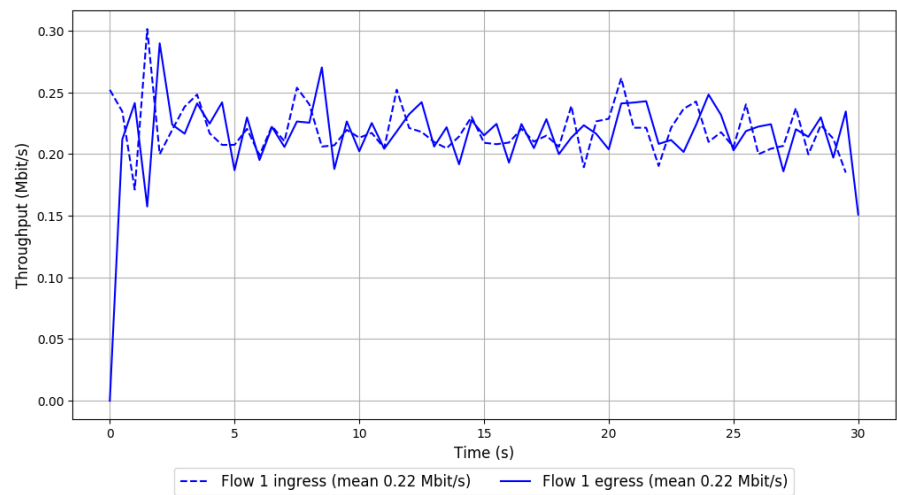
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 88.167 ms

Loss rate: 0.51%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-02-11 23:37:52

End at: 2019-02-11 23:38:22

Local clock offset: -6.9 ms

Remote clock offset: 8.875 ms

Below is generated by plot.py at 2019-02-12 00:50:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 88.382 ms

Loss rate: 0.64%

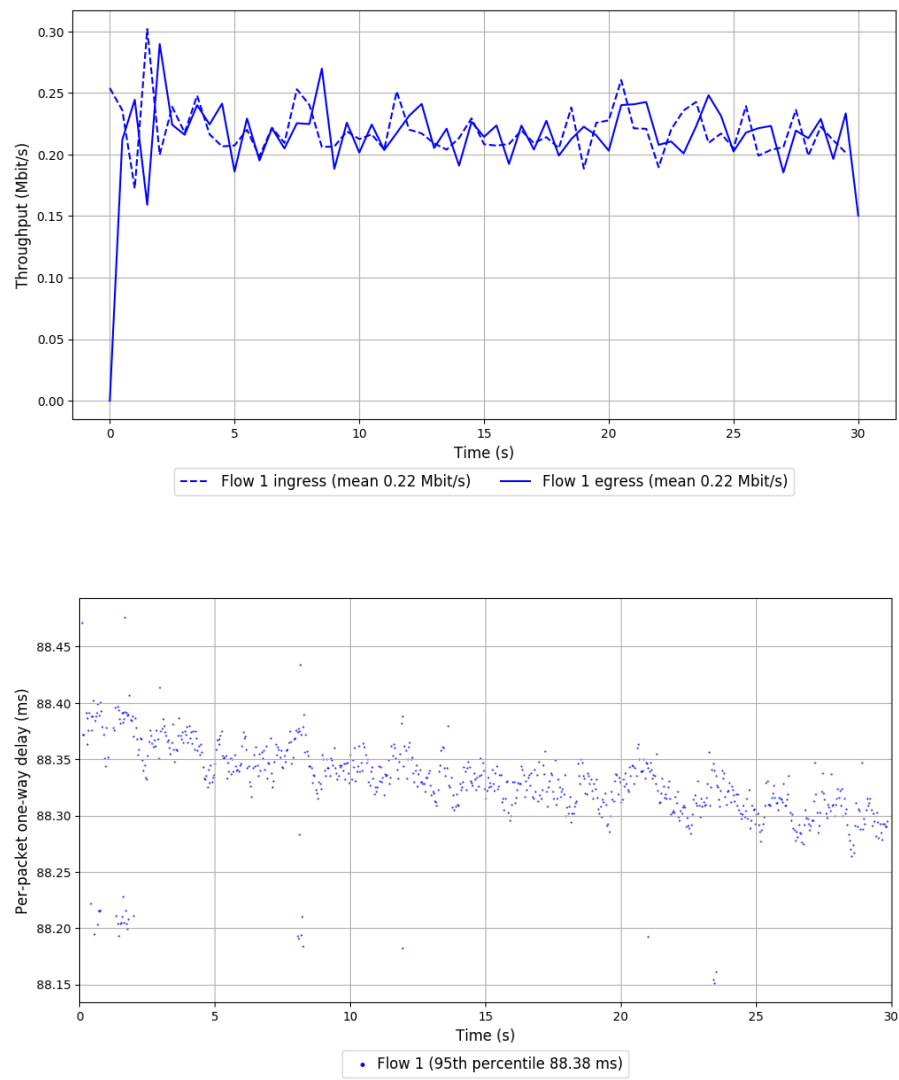
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 88.382 ms

Loss rate: 0.64%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-02-12 00:03:36

End at: 2019-02-12 00:04:06

Local clock offset: -6.645 ms

Remote clock offset: 8.47 ms

Below is generated by plot.py at 2019-02-12 00:50:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 93.923 ms

Loss rate: 0.51%

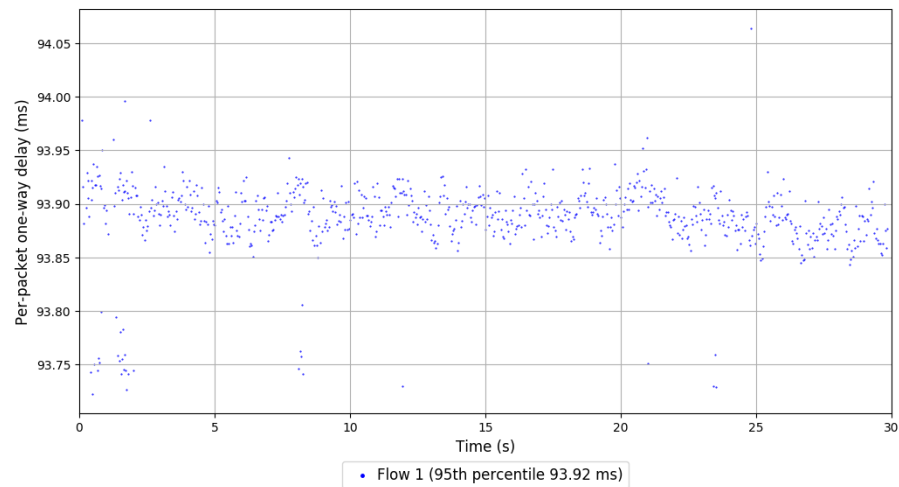
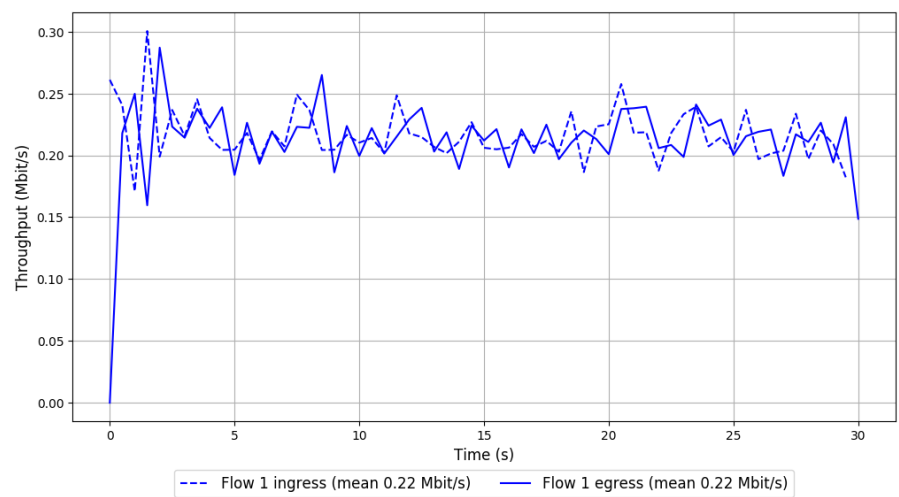
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 93.923 ms

Loss rate: 0.51%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-02-12 00:29:34

End at: 2019-02-12 00:30:04

Local clock offset: -6.349 ms

Remote clock offset: 3.103 ms

Below is generated by plot.py at 2019-02-12 00:50:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 93.042 ms

Loss rate: 0.64%

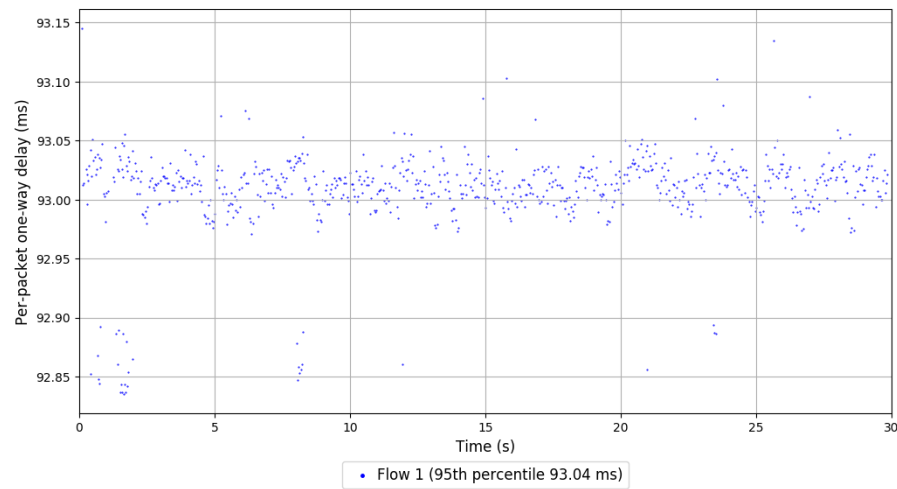
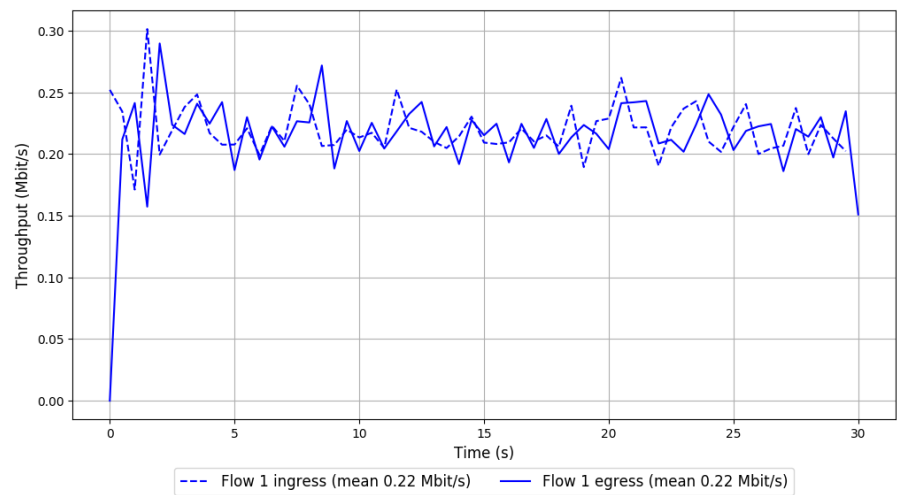
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 93.042 ms

Loss rate: 0.64%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-02-11 22:32:17

End at: 2019-02-11 22:32:47

Local clock offset: -1.666 ms

Remote clock offset: 3.985 ms

Below is generated by plot.py at 2019-02-12 00:50:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.89 Mbit/s

95th percentile per-packet one-way delay: 94.055 ms

Loss rate: 0.69%

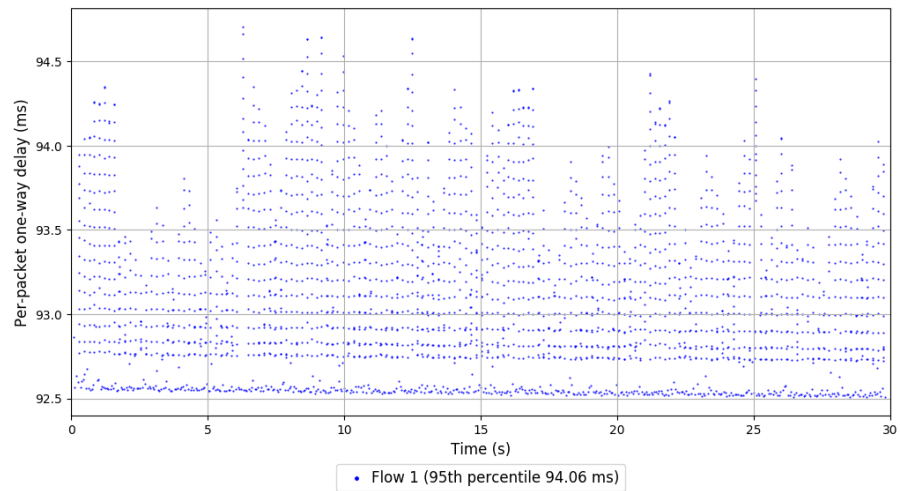
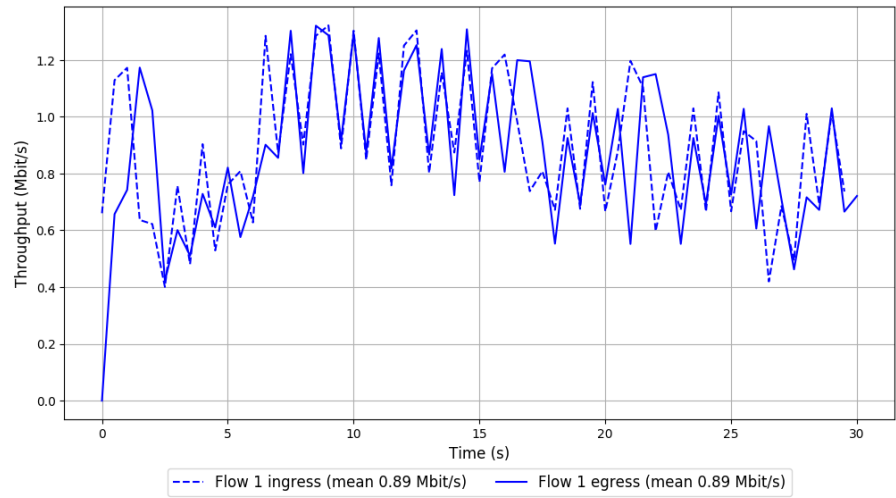
-- Flow 1:

Average throughput: 0.89 Mbit/s

95th percentile per-packet one-way delay: 94.055 ms

Loss rate: 0.69%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-02-11 22:57:17

End at: 2019-02-11 22:57:47

Local clock offset: -0.283 ms

Remote clock offset: 9.34 ms

Below is generated by plot.py at 2019-02-12 00:50:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.37 Mbit/s

95th percentile per-packet one-way delay: 101.392 ms

Loss rate: 0.58%

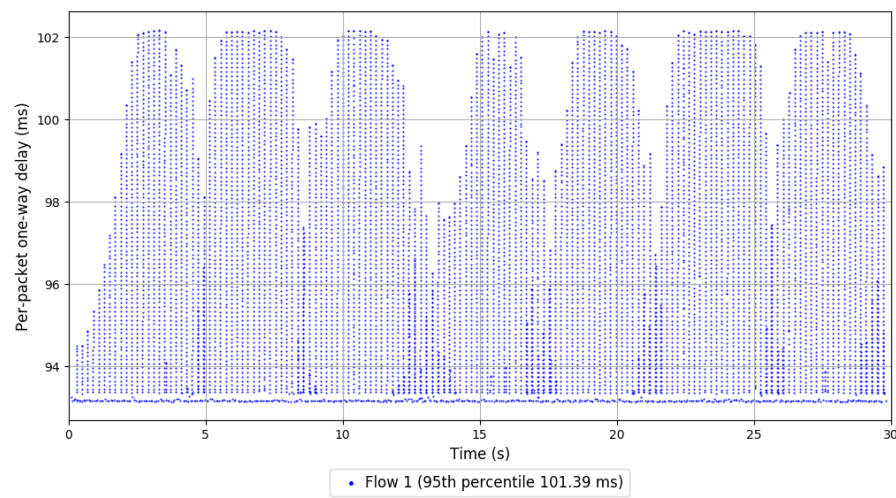
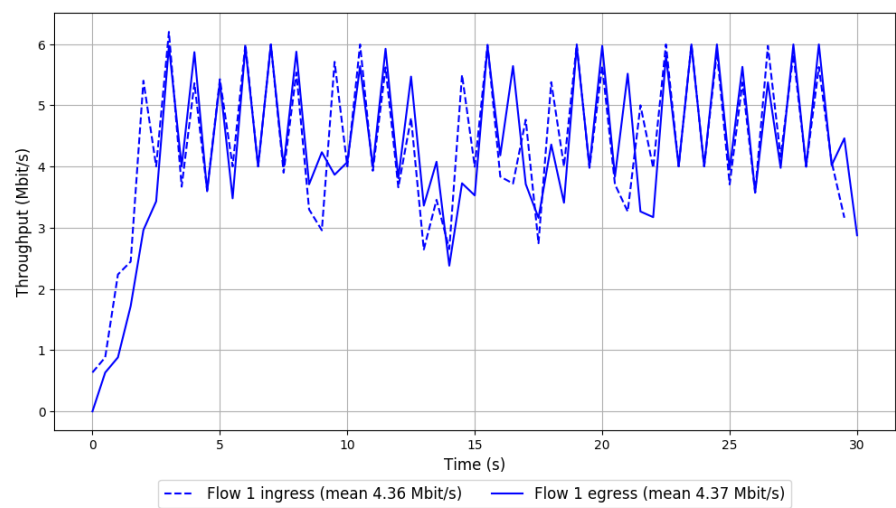
-- Flow 1:

Average throughput: 4.37 Mbit/s

95th percentile per-packet one-way delay: 101.392 ms

Loss rate: 0.58%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-02-11 23:22:29

End at: 2019-02-11 23:22:59

Local clock offset: -6.03 ms

Remote clock offset: 3.88 ms

Below is generated by plot.py at 2019-02-12 00:50:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 98.741 ms

Loss rate: 1.13%

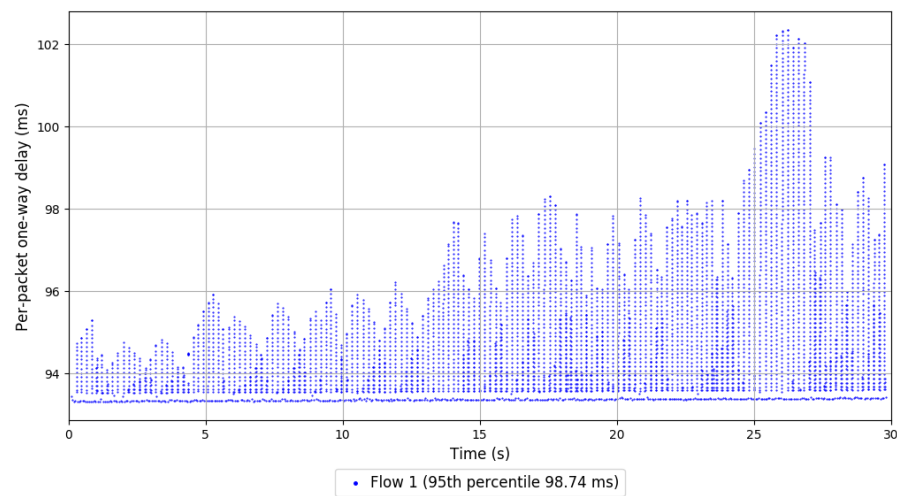
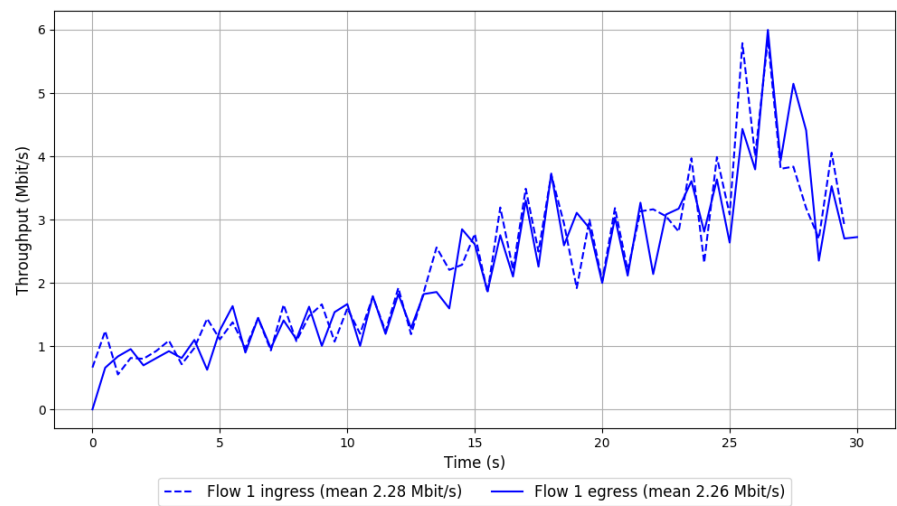
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 98.741 ms

Loss rate: 1.13%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-02-11 23:49:10

End at: 2019-02-11 23:49:40

Local clock offset: -7.177 ms

Remote clock offset: 3.559 ms

Below is generated by plot.py at 2019-02-12 00:50:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.57 Mbit/s

95th percentile per-packet one-way delay: 95.255 ms

Loss rate: 0.83%

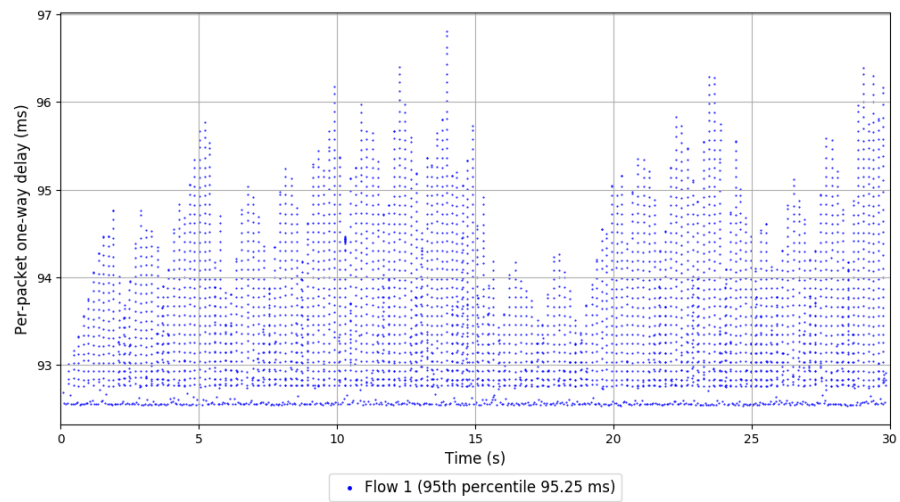
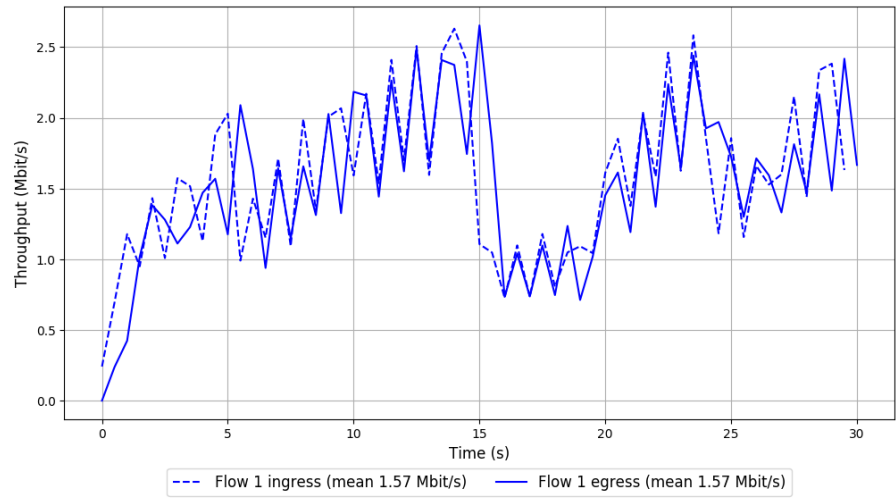
-- Flow 1:

Average throughput: 1.57 Mbit/s

95th percentile per-packet one-way delay: 95.255 ms

Loss rate: 0.83%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-02-12 00:14:57

End at: 2019-02-12 00:15:27

Local clock offset: -7.005 ms

Remote clock offset: 8.506 ms

Below is generated by plot.py at 2019-02-12 00:50:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.77 Mbit/s

95th percentile per-packet one-way delay: 92.675 ms

Loss rate: 0.51%

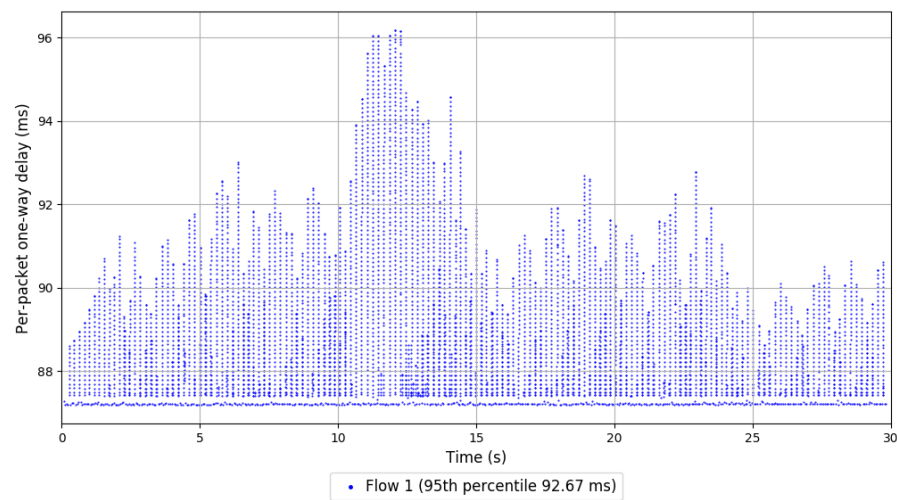
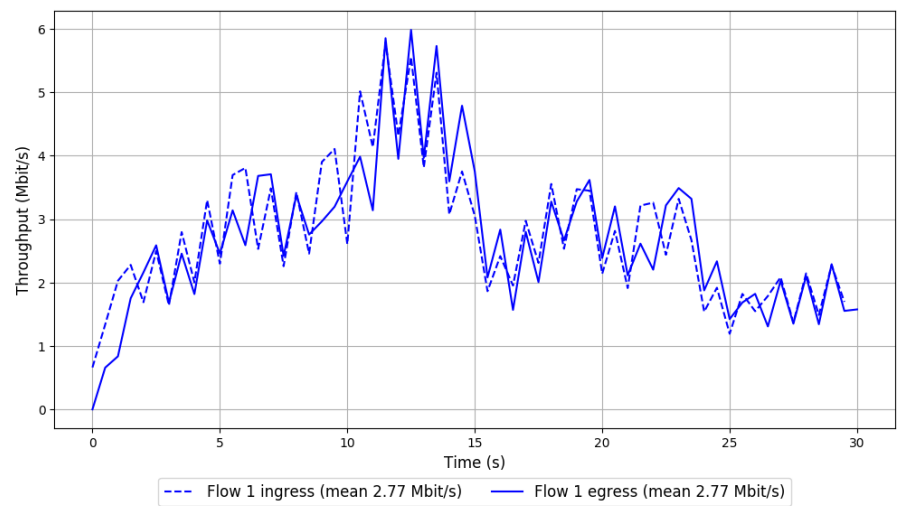
-- Flow 1:

Average throughput: 2.77 Mbit/s

95th percentile per-packet one-way delay: 92.675 ms

Loss rate: 0.51%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-02-11 22:36:59

End at: 2019-02-11 22:37:29

Local clock offset: -1.361 ms

Remote clock offset: 8.989 ms

Below is generated by plot.py at 2019-02-12 00:51:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.63 Mbit/s

95th percentile per-packet one-way delay: 113.932 ms

Loss rate: 0.59%

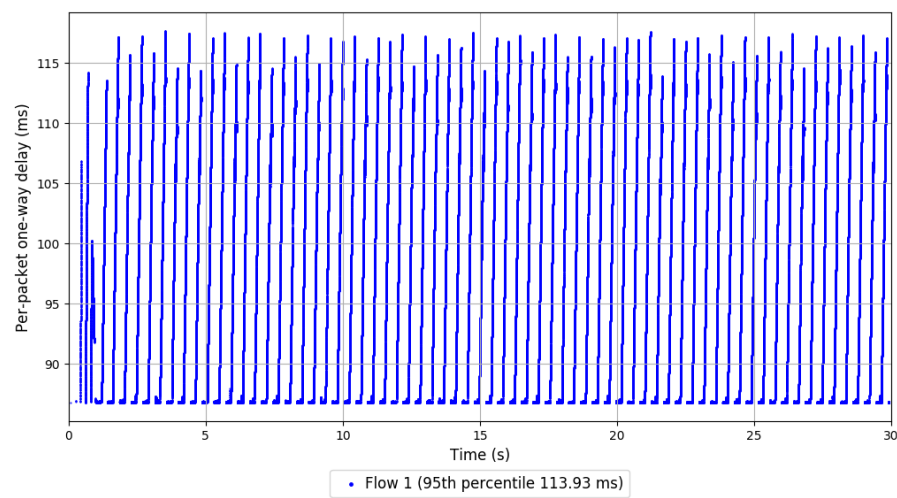
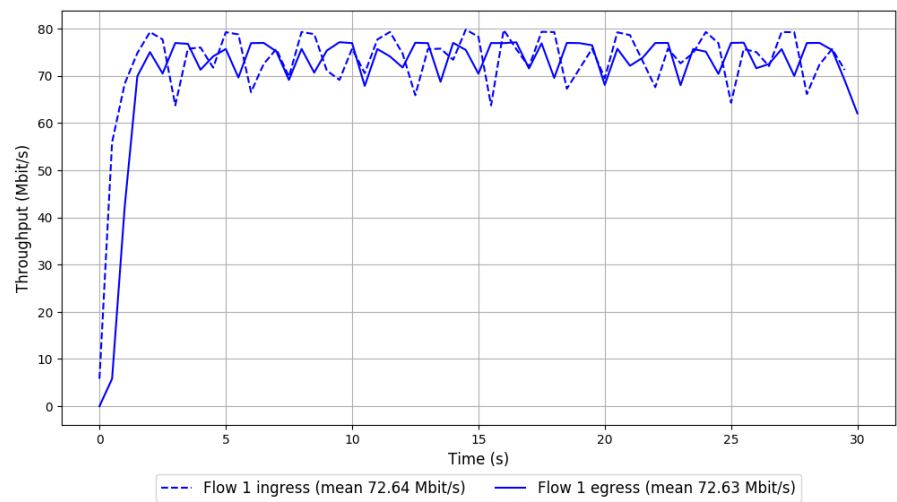
-- Flow 1:

Average throughput: 72.63 Mbit/s

95th percentile per-packet one-way delay: 113.932 ms

Loss rate: 0.59%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-02-11 23:01:59

End at: 2019-02-11 23:02:29

Local clock offset: -0.041 ms

Remote clock offset: 4.559 ms

Below is generated by plot.py at 2019-02-12 00:51:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.11 Mbit/s

95th percentile per-packet one-way delay: 120.220 ms

Loss rate: 0.58%

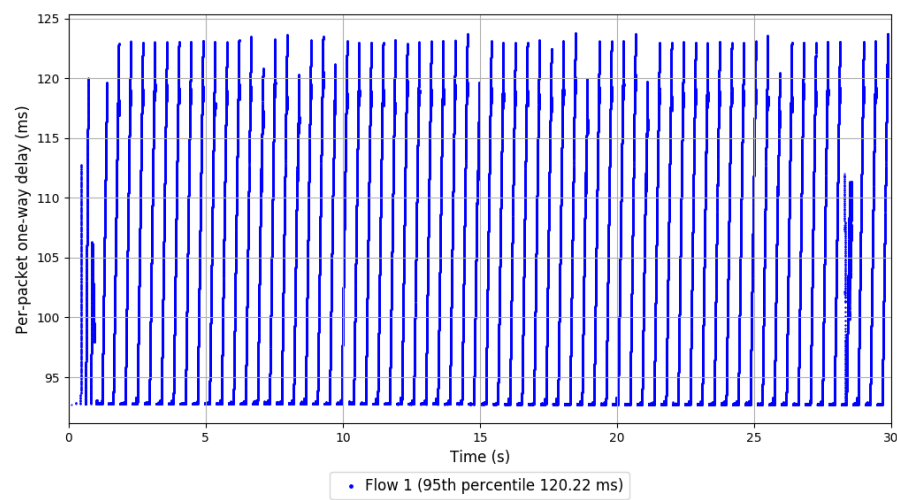
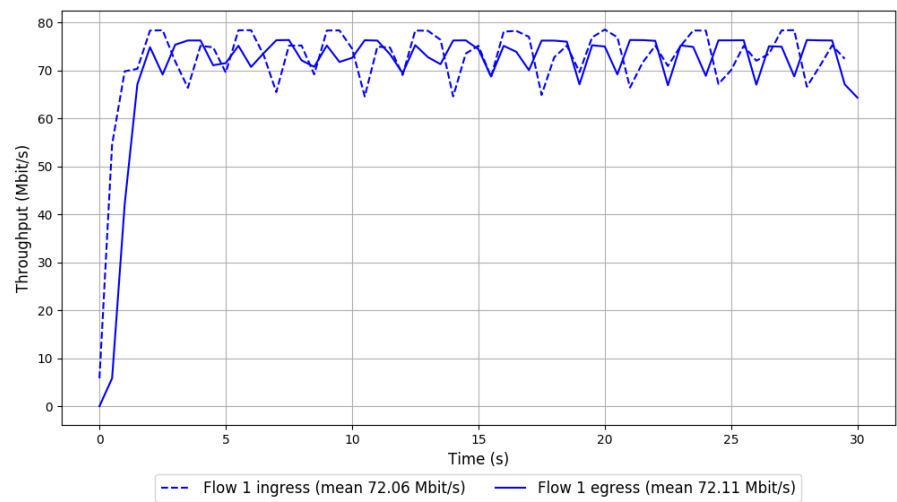
-- Flow 1:

Average throughput: 72.11 Mbit/s

95th percentile per-packet one-way delay: 120.220 ms

Loss rate: 0.58%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-02-11 23:27:29

End at: 2019-02-11 23:27:59

Local clock offset: -6.724 ms

Remote clock offset: 8.828 ms

Below is generated by plot.py at 2019-02-12 00:51:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.88 Mbit/s

95th percentile per-packet one-way delay: 114.939 ms

Loss rate: 0.71%

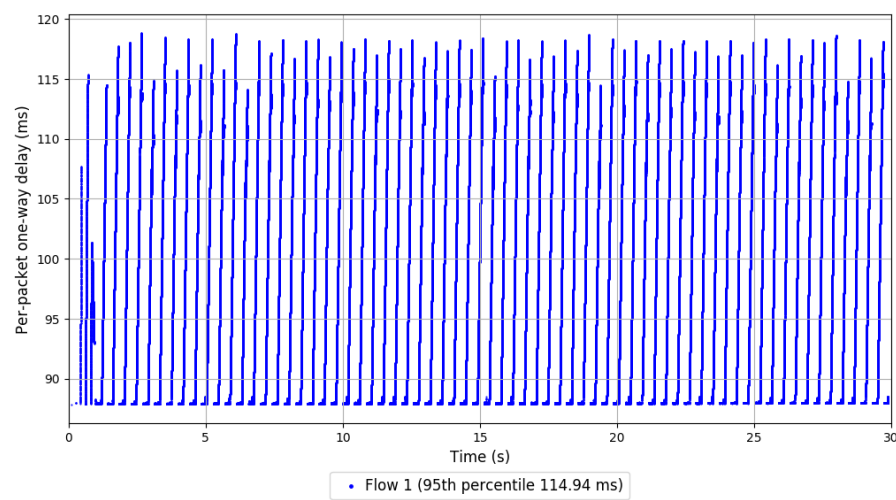
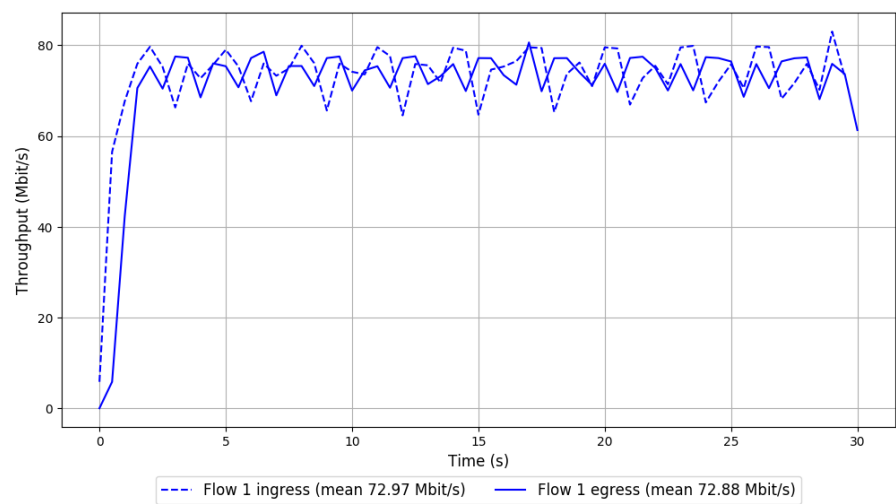
-- Flow 1:

Average throughput: 72.88 Mbit/s

95th percentile per-packet one-way delay: 114.939 ms

Loss rate: 0.71%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-02-11 23:53:55

End at: 2019-02-11 23:54:25

Local clock offset: -7.196 ms

Remote clock offset: 3.427 ms

Below is generated by plot.py at 2019-02-12 00:51:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.96 Mbit/s

95th percentile per-packet one-way delay: 120.046 ms

Loss rate: 0.61%

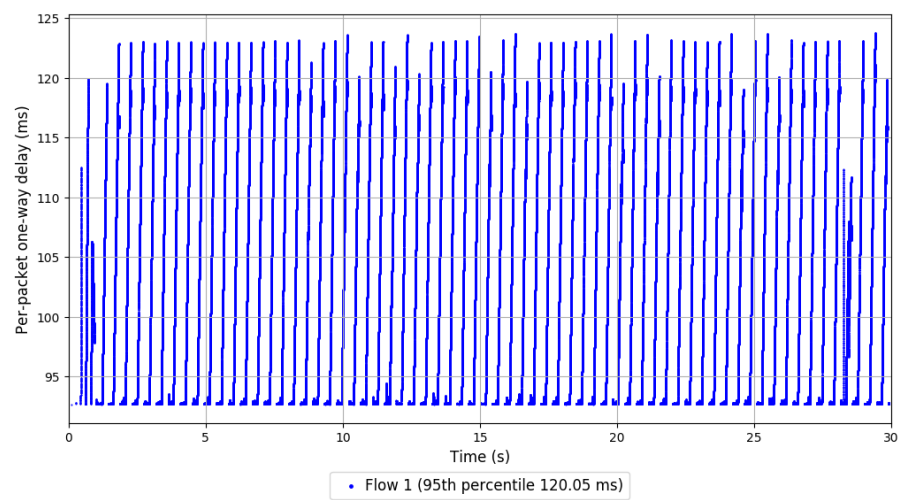
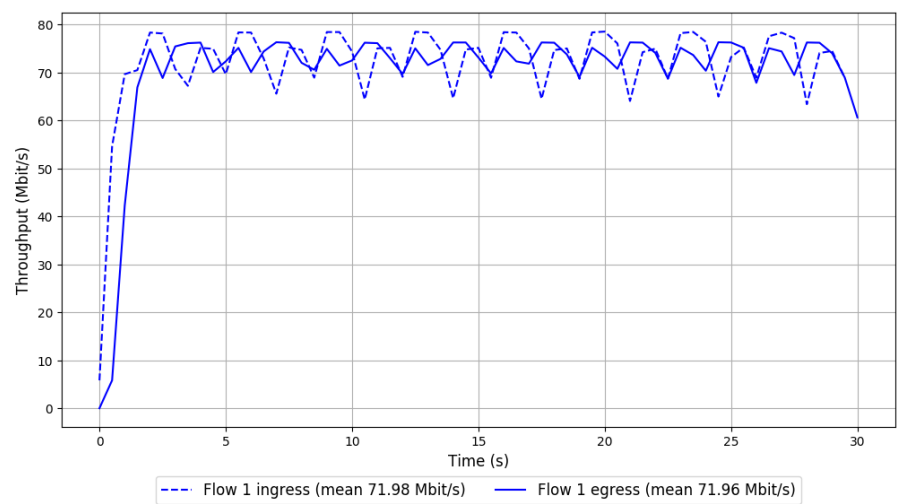
-- Flow 1:

Average throughput: 71.96 Mbit/s

95th percentile per-packet one-way delay: 120.046 ms

Loss rate: 0.61%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-02-12 00:19:47

End at: 2019-02-12 00:20:17

Local clock offset: -6.158 ms

Remote clock offset: 3.285 ms

Below is generated by plot.py at 2019-02-12 00:51:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.06 Mbit/s

95th percentile per-packet one-way delay: 127.030 ms

Loss rate: 0.93%

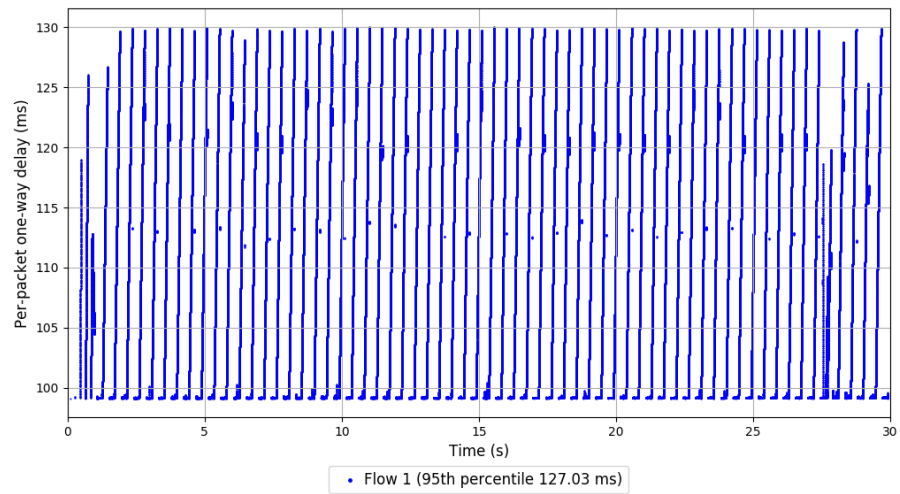
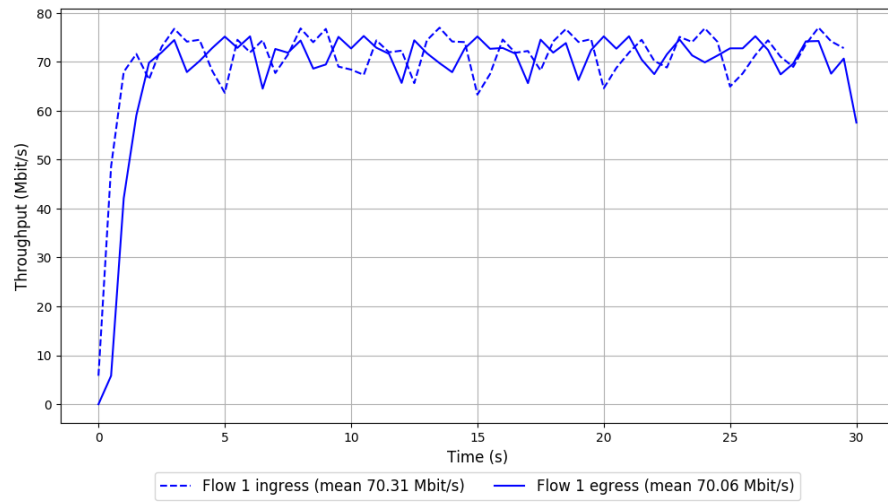
-- Flow 1:

Average throughput: 70.06 Mbit/s

95th percentile per-packet one-way delay: 127.030 ms

Loss rate: 0.93%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-02-11 22:40:34

End at: 2019-02-11 22:41:04

Local clock offset: -0.411 ms

Remote clock offset: 9.268 ms

Below is generated by plot.py at 2019-02-12 00:51:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.13 Mbit/s

95th percentile per-packet one-way delay: 165.147 ms

Loss rate: 0.38%

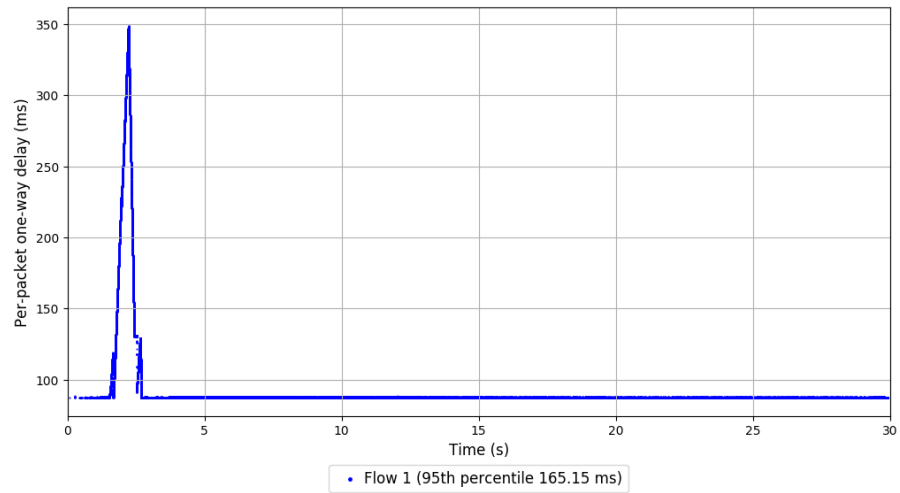
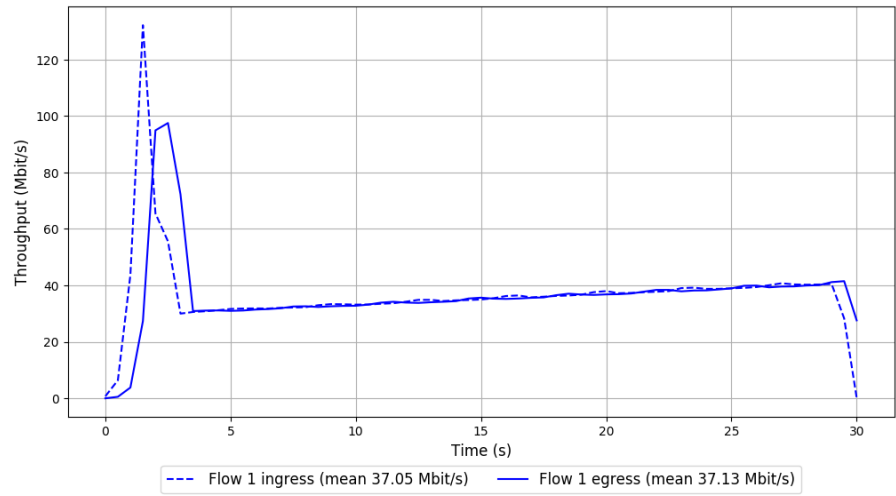
-- Flow 1:

Average throughput: 37.13 Mbit/s

95th percentile per-packet one-way delay: 165.147 ms

Loss rate: 0.38%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-02-11 23:05:33

End at: 2019-02-11 23:06:03

Local clock offset: -0.915 ms

Remote clock offset: 9.43 ms

Below is generated by plot.py at 2019-02-12 00:51:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.37 Mbit/s

95th percentile per-packet one-way delay: 168.692 ms

Loss rate: 0.66%

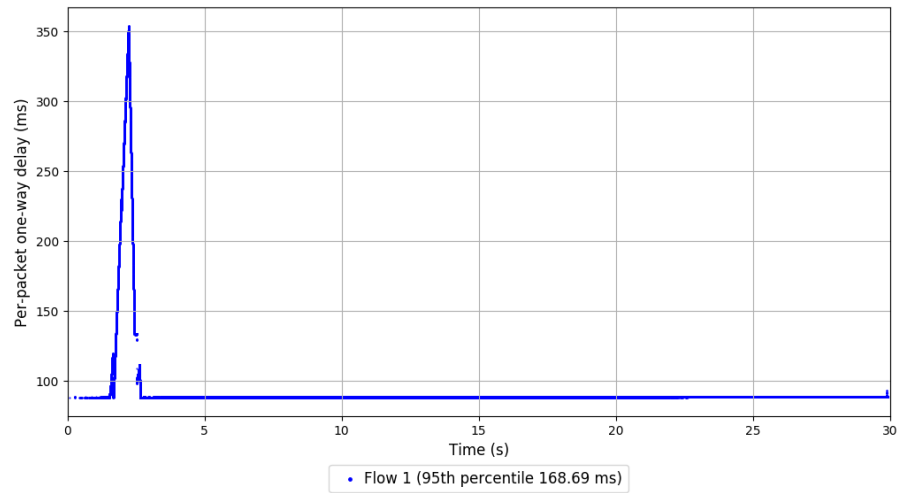
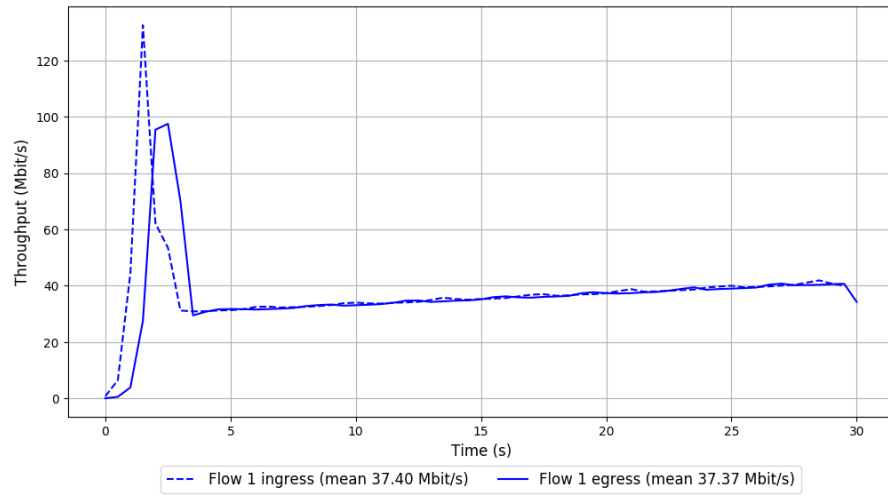
-- Flow 1:

Average throughput: 37.37 Mbit/s

95th percentile per-packet one-way delay: 168.692 ms

Loss rate: 0.66%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-02-11 23:31:23

End at: 2019-02-11 23:31:53

Local clock offset: -7.889 ms

Remote clock offset: 8.987 ms

Below is generated by plot.py at 2019-02-12 00:51:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.45 Mbit/s

95th percentile per-packet one-way delay: 105.418 ms

Loss rate: 0.72%

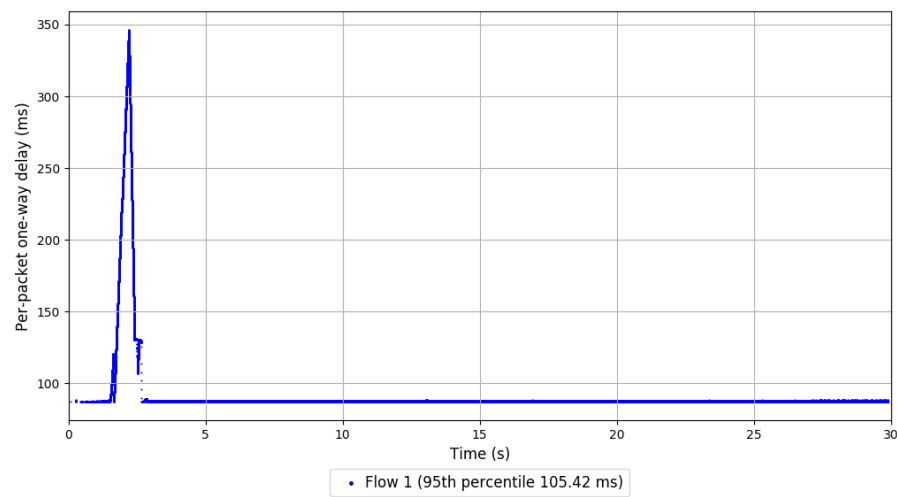
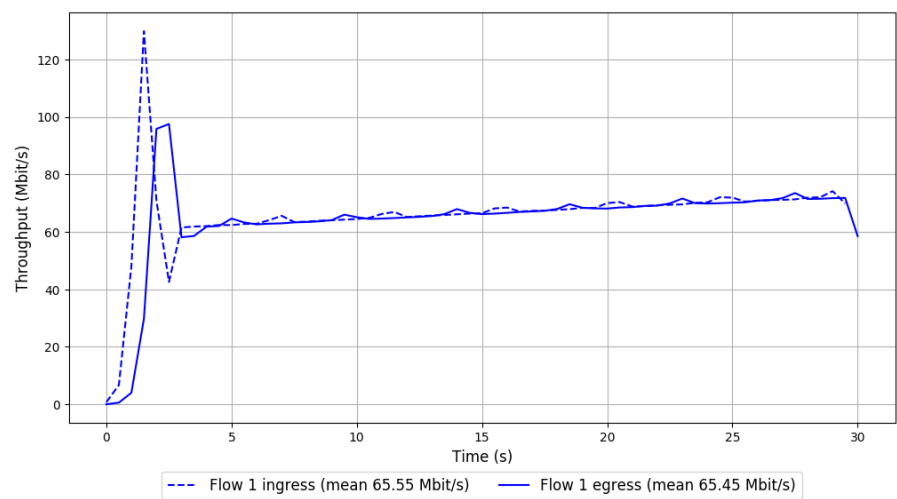
-- Flow 1:

Average throughput: 65.45 Mbit/s

95th percentile per-packet one-way delay: 105.418 ms

Loss rate: 0.72%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-02-11 23:57:31

End at: 2019-02-11 23:58:01

Local clock offset: -6.469 ms

Remote clock offset: 8.575 ms

Below is generated by plot.py at 2019-02-12 00:51:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.63 Mbit/s

95th percentile per-packet one-way delay: 88.554 ms

Loss rate: 0.72%

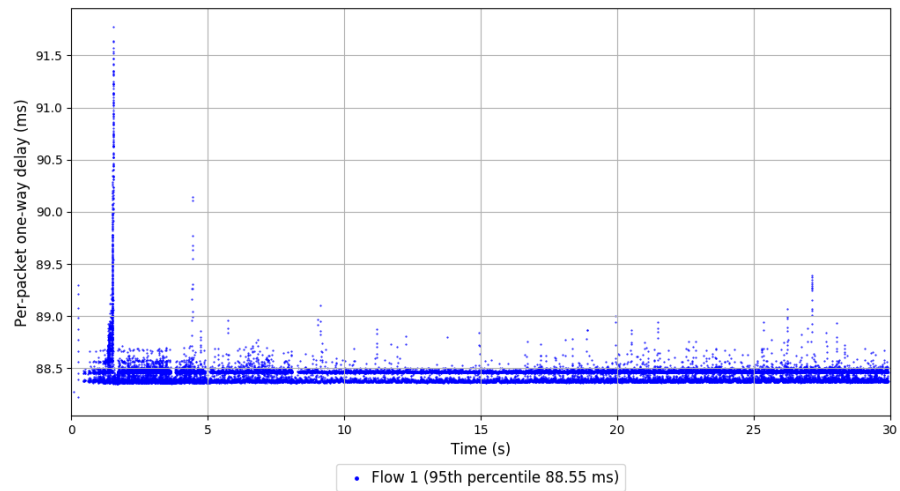
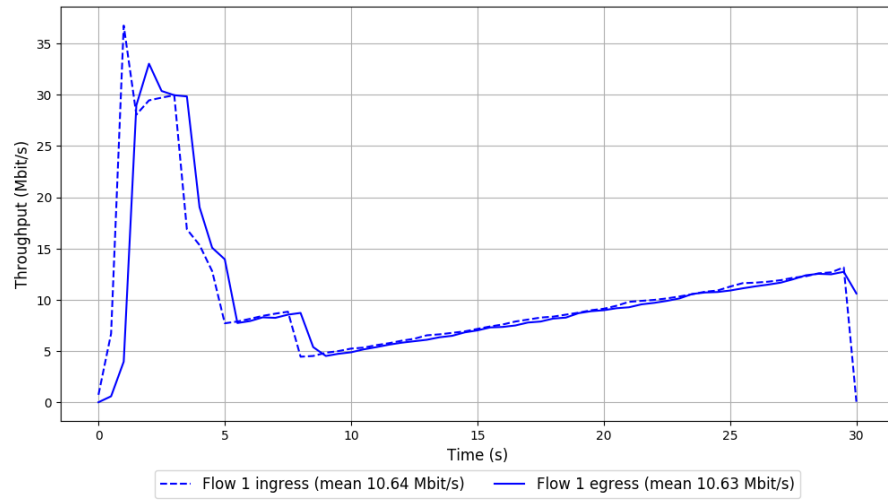
-- Flow 1:

Average throughput: 10.63 Mbit/s

95th percentile per-packet one-way delay: 88.554 ms

Loss rate: 0.72%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-02-12 00:23:27

End at: 2019-02-12 00:23:57

Local clock offset: -7.004 ms

Remote clock offset: 8.61 ms

Below is generated by plot.py at 2019-02-12 00:51:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.39 Mbit/s

95th percentile per-packet one-way delay: 225.315 ms

Loss rate: 0.61%

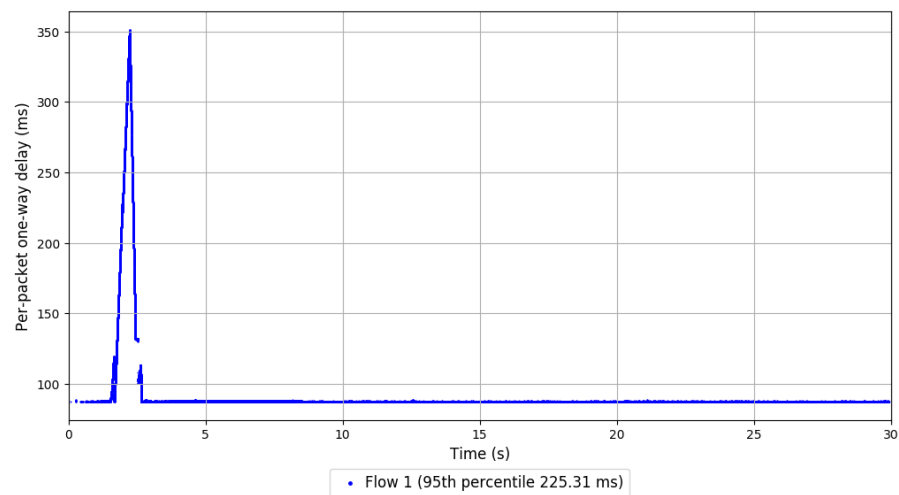
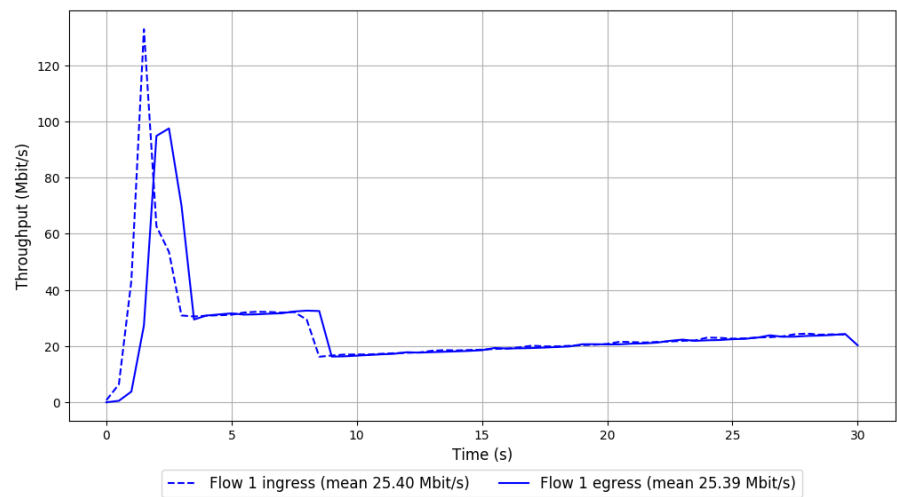
-- Flow 1:

Average throughput: 25.39 Mbit/s

95th percentile per-packet one-way delay: 225.315 ms

Loss rate: 0.61%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-02-11 22:34:36

End at: 2019-02-11 22:35:06

Local clock offset: -1.518 ms

Remote clock offset: 3.992 ms

Below is generated by plot.py at 2019-02-12 00:51:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.33 Mbit/s

95th percentile per-packet one-way delay: 280.023 ms

Loss rate: 1.30%

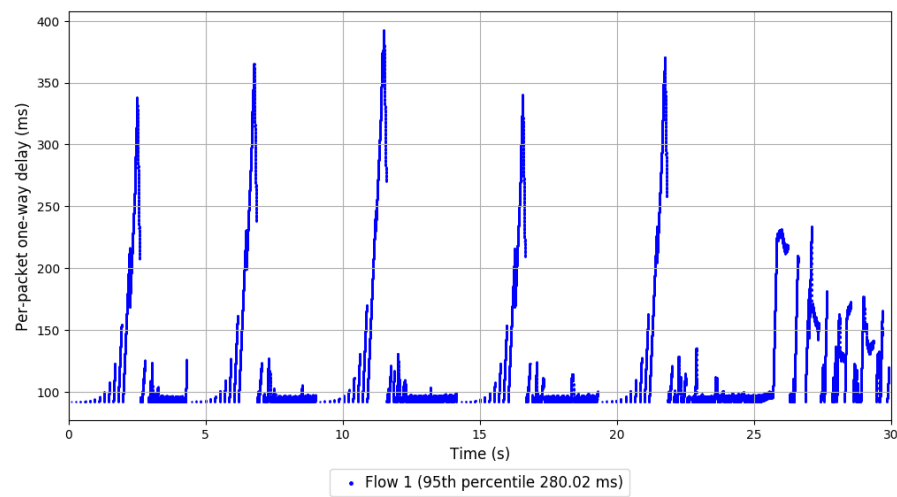
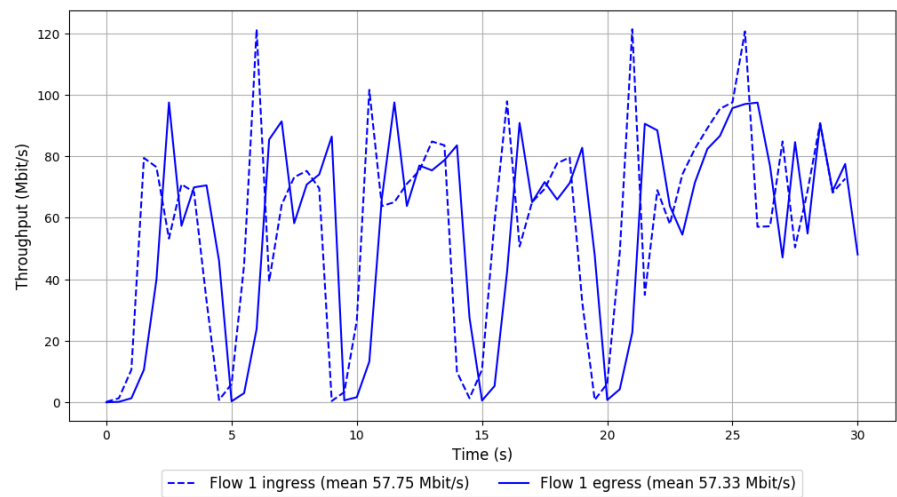
-- Flow 1:

Average throughput: 57.33 Mbit/s

95th percentile per-packet one-way delay: 280.023 ms

Loss rate: 1.30%

Run 1: Report of Verus — Data Link

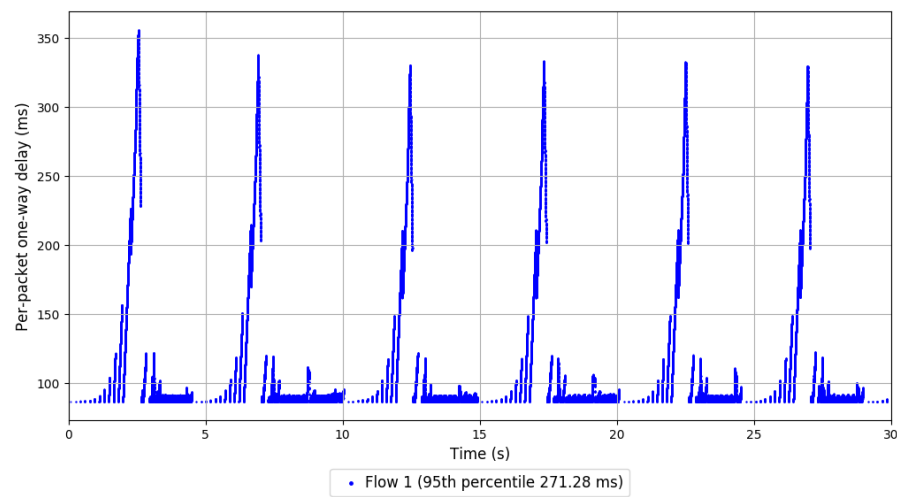
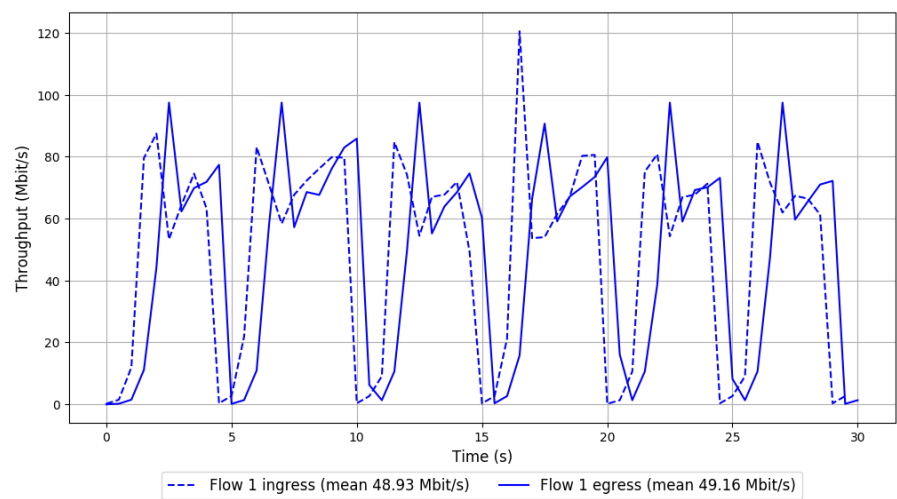


Run 2: Statistics of Verus

Start at: 2019-02-11 22:59:37
End at: 2019-02-11 23:00:07
Local clock offset: -0.159 ms
Remote clock offset: 9.613 ms

Below is generated by plot.py at 2019-02-12 00:51:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 49.16 Mbit/s
95th percentile per-packet one-way delay: 271.276 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 49.16 Mbit/s
95th percentile per-packet one-way delay: 271.276 ms
Loss rate: 0.11%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-02-11 23:25:02

End at: 2019-02-11 23:25:32

Local clock offset: -6.412 ms

Remote clock offset: 8.934 ms

Below is generated by plot.py at 2019-02-12 00:51:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.32 Mbit/s

95th percentile per-packet one-way delay: 173.603 ms

Loss rate: 0.82%

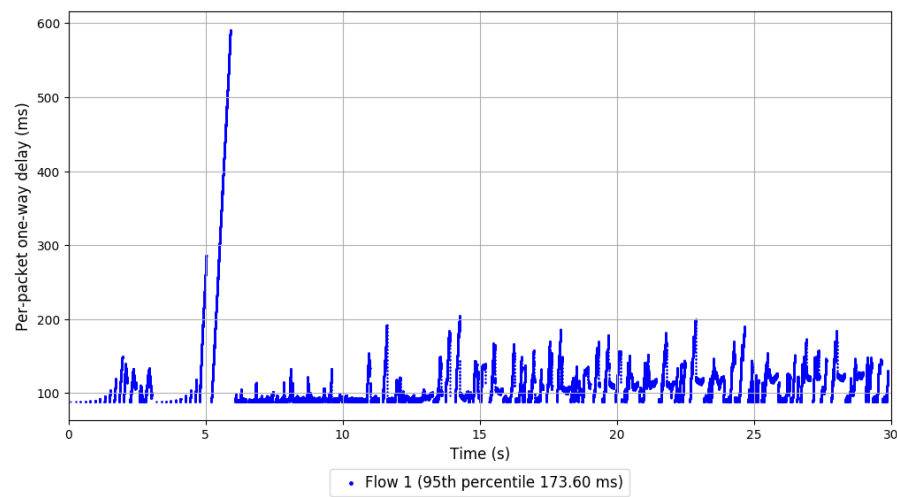
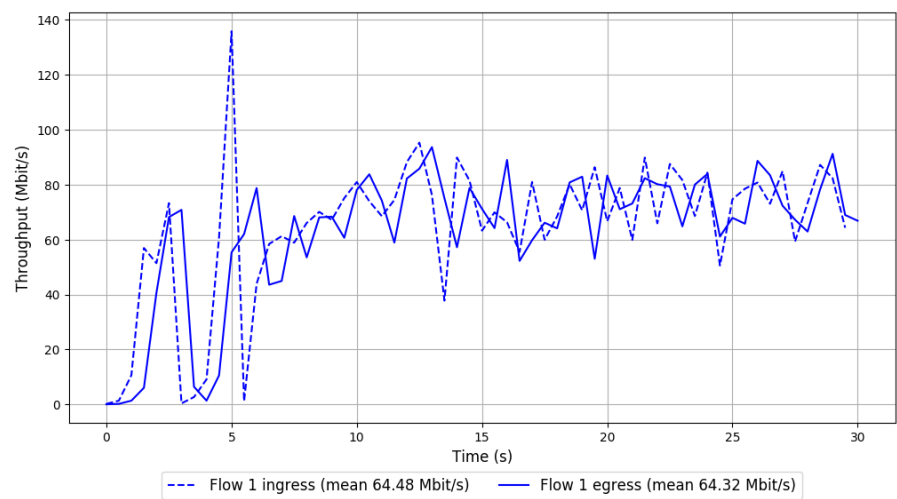
-- Flow 1:

Average throughput: 64.32 Mbit/s

95th percentile per-packet one-way delay: 173.603 ms

Loss rate: 0.82%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-02-11 23:51:32

End at: 2019-02-11 23:52:02

Local clock offset: -7.122 ms

Remote clock offset: 8.57 ms

Below is generated by plot.py at 2019-02-12 00:51:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.90 Mbit/s

95th percentile per-packet one-way delay: 268.291 ms

Loss rate: 2.78%

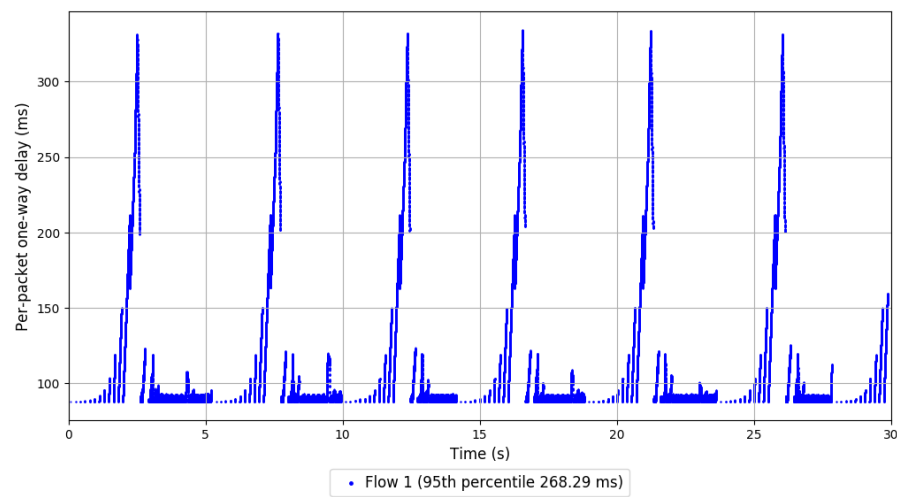
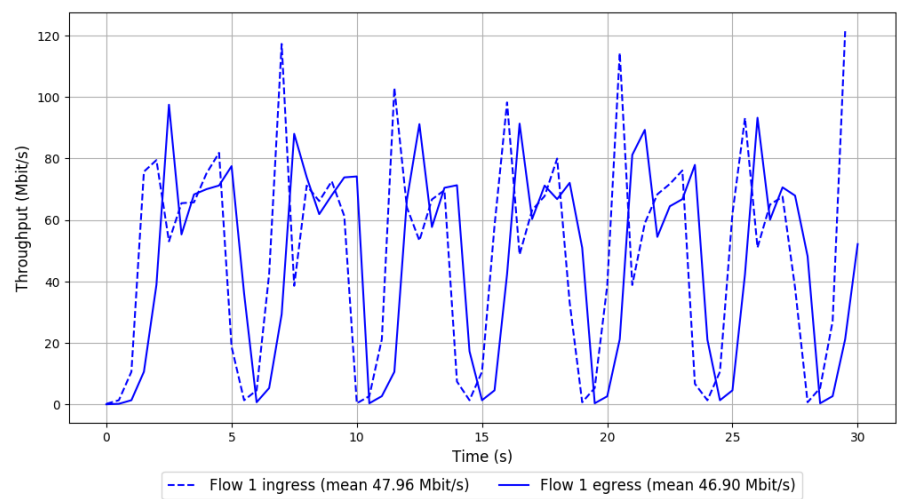
-- Flow 1:

Average throughput: 46.90 Mbit/s

95th percentile per-packet one-way delay: 268.291 ms

Loss rate: 2.78%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-02-12 00:17:20

End at: 2019-02-12 00:17:50

Local clock offset: -6.16 ms

Remote clock offset: 8.229 ms

Below is generated by plot.py at 2019-02-12 00:51:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.46 Mbit/s

95th percentile per-packet one-way delay: 274.302 ms

Loss rate: 0.06%

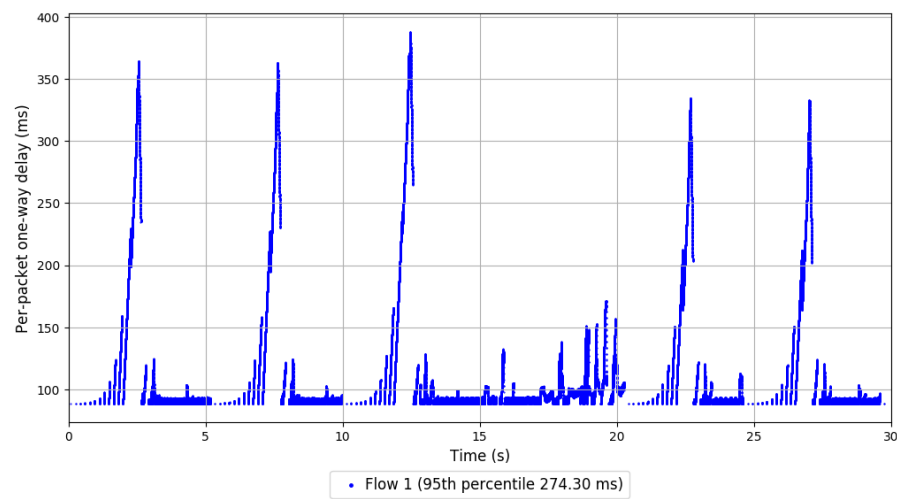
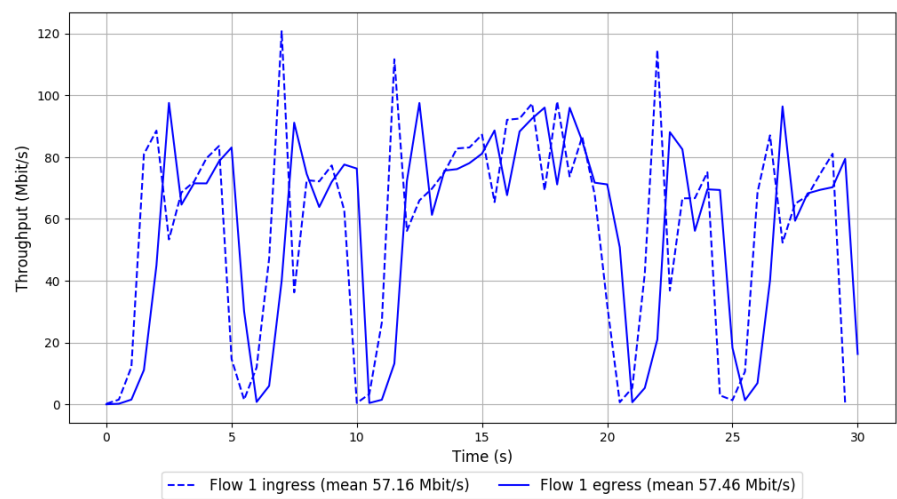
-- Flow 1:

Average throughput: 57.46 Mbit/s

95th percentile per-packet one-way delay: 274.302 ms

Loss rate: 0.06%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-02-11 22:39:21

End at: 2019-02-11 22:39:51

Local clock offset: -1.225 ms

Remote clock offset: 9.051 ms

Below is generated by plot.py at 2019-02-12 00:52:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.31 Mbit/s

95th percentile per-packet one-way delay: 123.248 ms

Loss rate: 0.80%

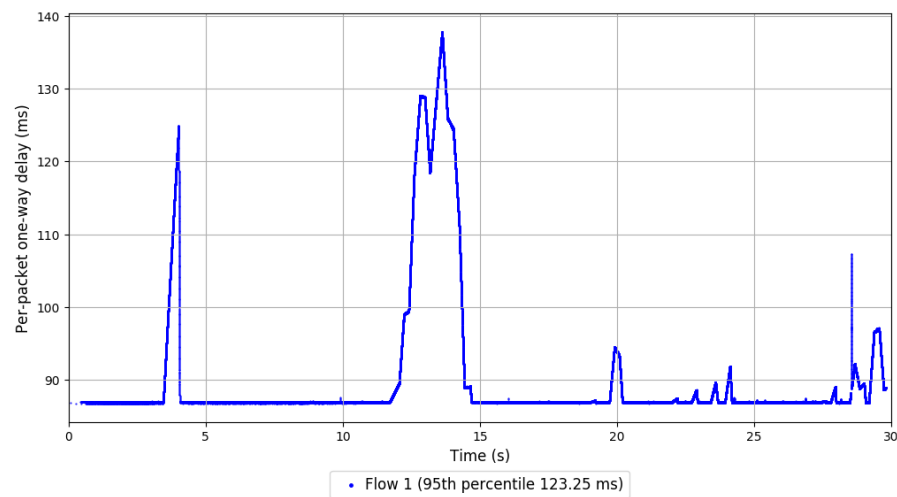
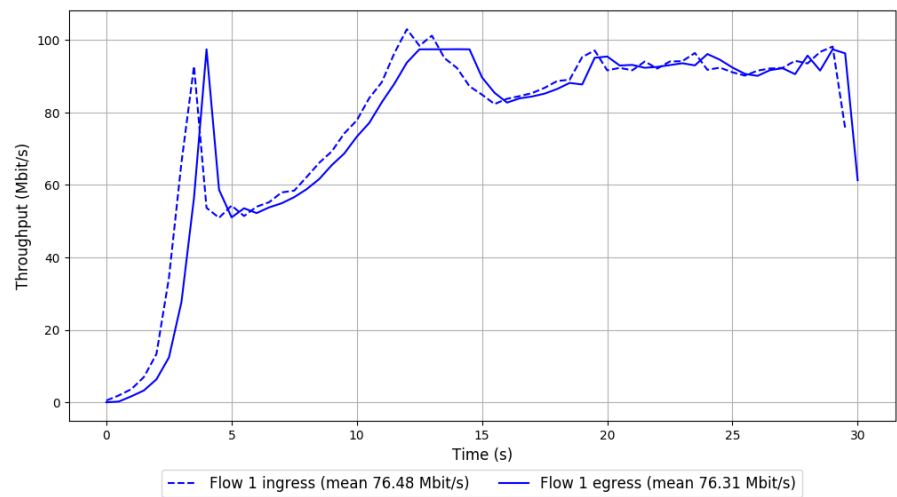
-- Flow 1:

Average throughput: 76.31 Mbit/s

95th percentile per-packet one-way delay: 123.248 ms

Loss rate: 0.80%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-02-11 23:04:21

End at: 2019-02-11 23:04:51

Local clock offset: 0.081 ms

Remote clock offset: 9.553 ms

Below is generated by plot.py at 2019-02-12 00:52:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.76 Mbit/s

95th percentile per-packet one-way delay: 103.594 ms

Loss rate: 0.02%

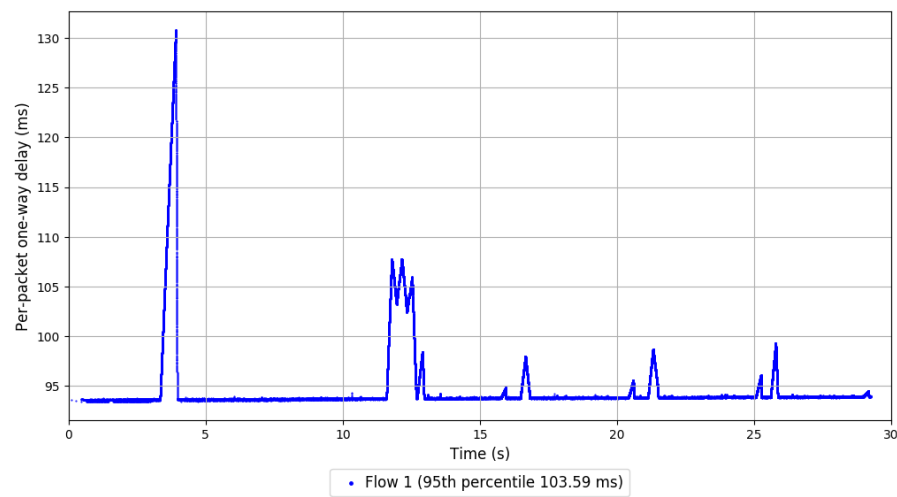
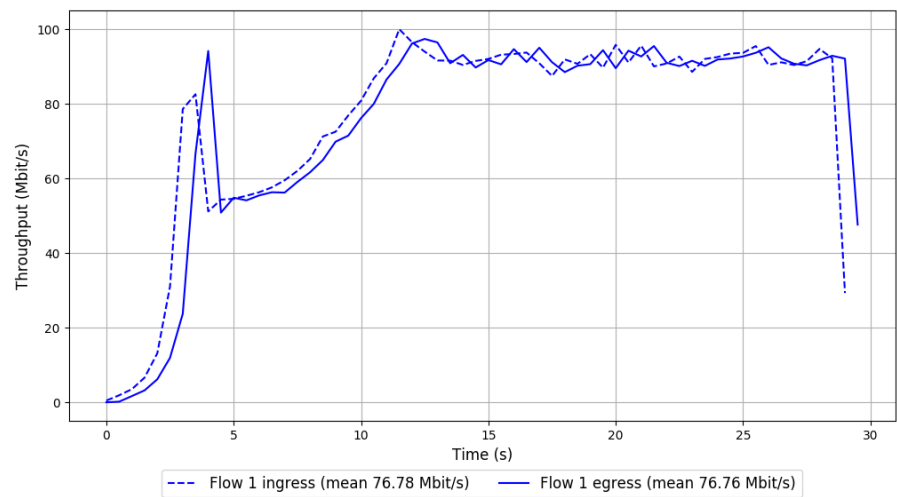
-- Flow 1:

Average throughput: 76.76 Mbit/s

95th percentile per-packet one-way delay: 103.594 ms

Loss rate: 0.02%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-02-11 23:29:57

End at: 2019-02-11 23:30:27

Local clock offset: -7.749 ms

Remote clock offset: 3.895 ms

Below is generated by plot.py at 2019-02-12 00:52:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.70 Mbit/s

95th percentile per-packet one-way delay: 109.816 ms

Loss rate: 0.85%

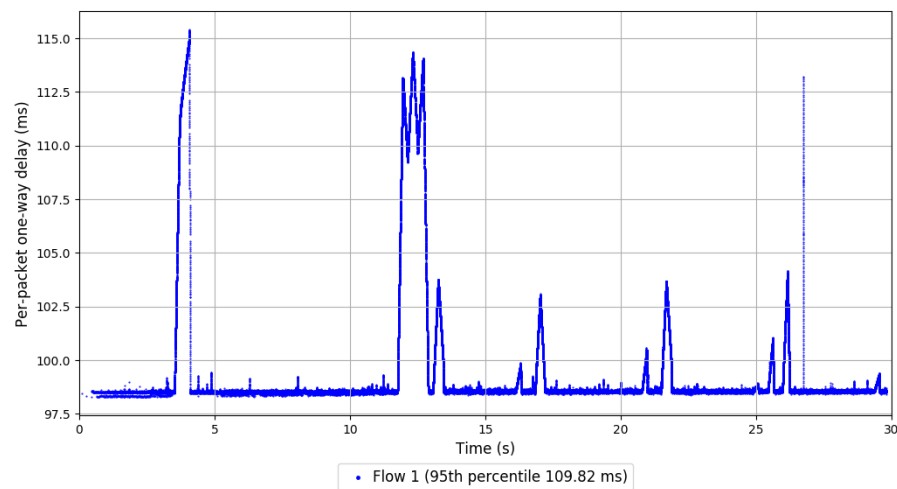
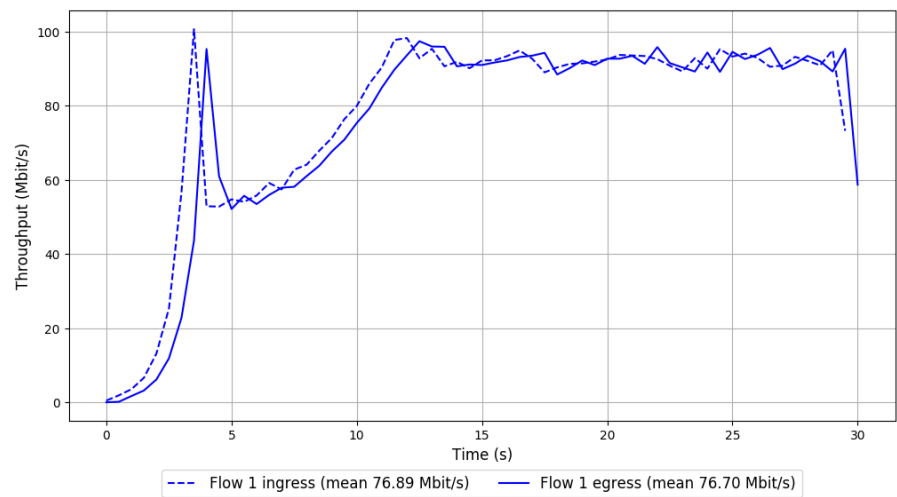
-- Flow 1:

Average throughput: 76.70 Mbit/s

95th percentile per-packet one-way delay: 109.816 ms

Loss rate: 0.85%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-02-11 23:56:18

End at: 2019-02-11 23:56:48

Local clock offset: -7.187 ms

Remote clock offset: 3.451 ms

Below is generated by plot.py at 2019-02-12 00:52:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.53 Mbit/s

95th percentile per-packet one-way delay: 97.869 ms

Loss rate: 0.76%

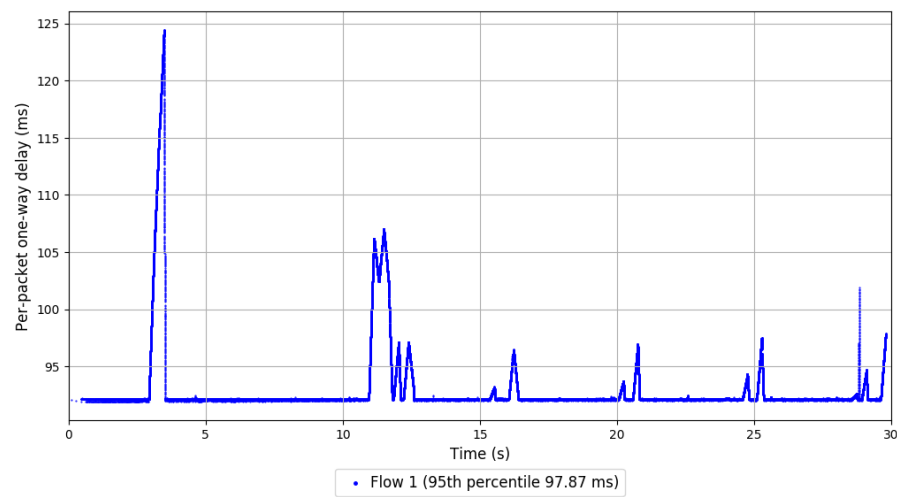
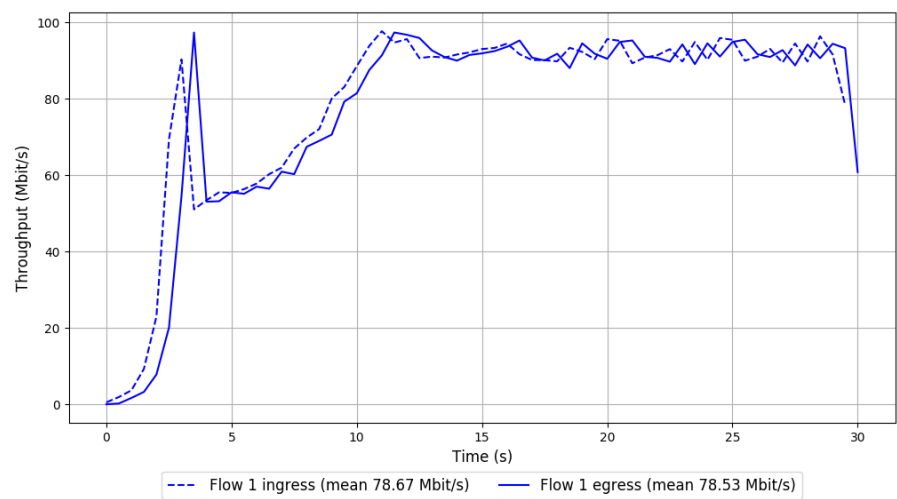
-- Flow 1:

Average throughput: 78.53 Mbit/s

95th percentile per-packet one-way delay: 97.869 ms

Loss rate: 0.76%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-02-12 00:22:12

End at: 2019-02-12 00:22:42

Local clock offset: -6.164 ms

Remote clock offset: 3.314 ms

Below is generated by plot.py at 2019-02-12 00:52:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.63 Mbit/s

95th percentile per-packet one-way delay: 126.691 ms

Loss rate: 0.82%

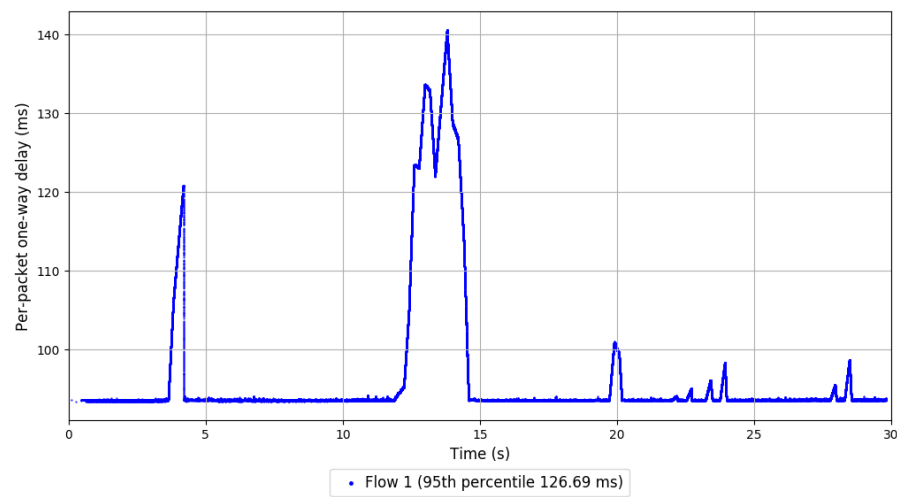
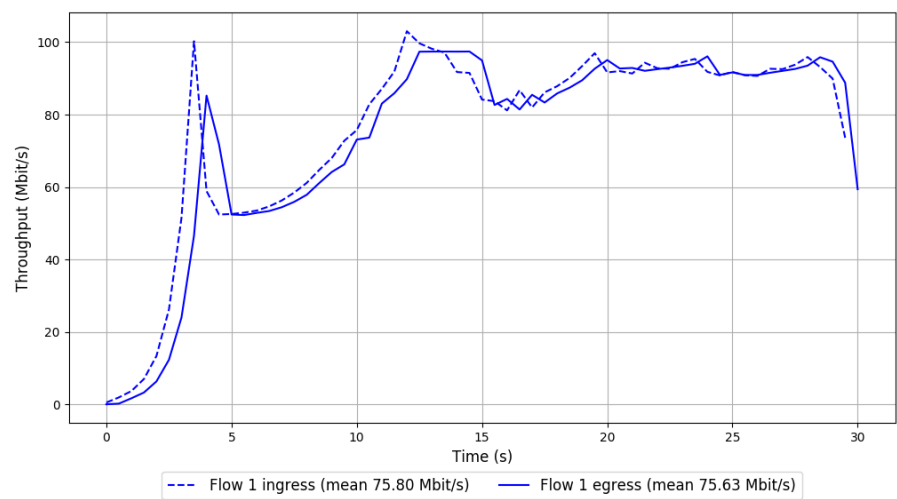
-- Flow 1:

Average throughput: 75.63 Mbit/s

95th percentile per-packet one-way delay: 126.691 ms

Loss rate: 0.82%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-02-11 22:38:13

End at: 2019-02-11 22:38:43

Local clock offset: -0.598 ms

Remote clock offset: 9.265 ms

Below is generated by plot.py at 2019-02-12 00:52:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 93.902 ms

Loss rate: 0.60%

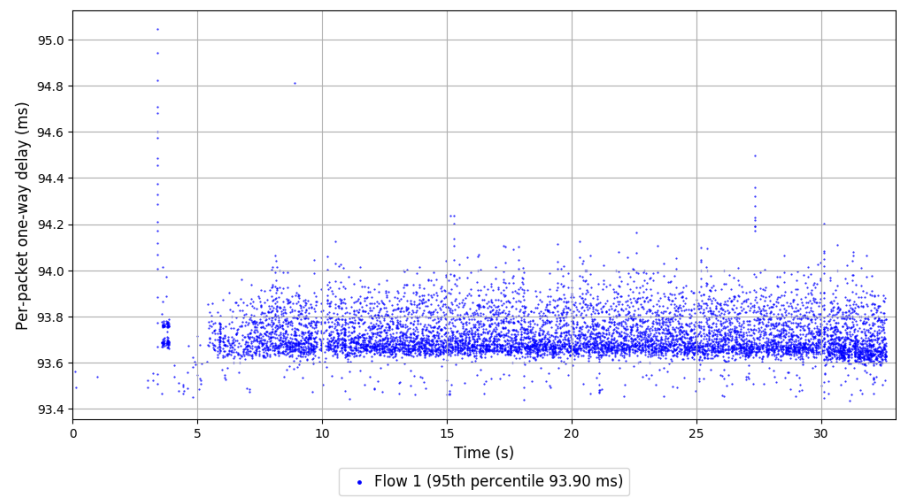
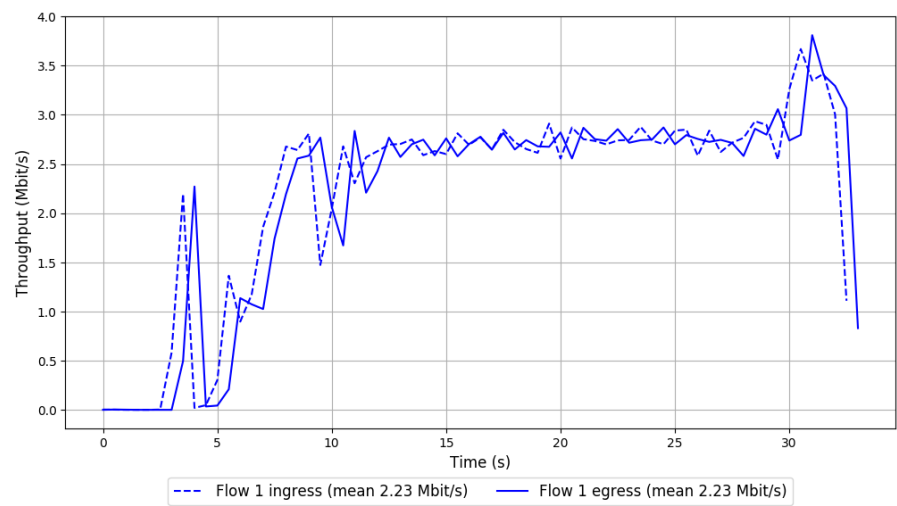
-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 93.902 ms

Loss rate: 0.60%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-02-11 23:03:13

End at: 2019-02-11 23:03:43

Local clock offset: 0.022 ms

Remote clock offset: 9.835 ms

Below is generated by plot.py at 2019-02-12 00:52:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 98.669 ms

Loss rate: 0.65%

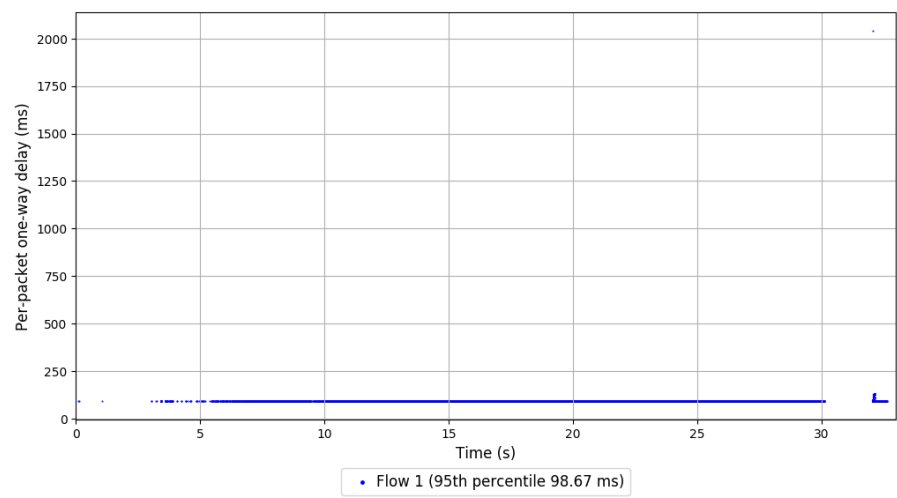
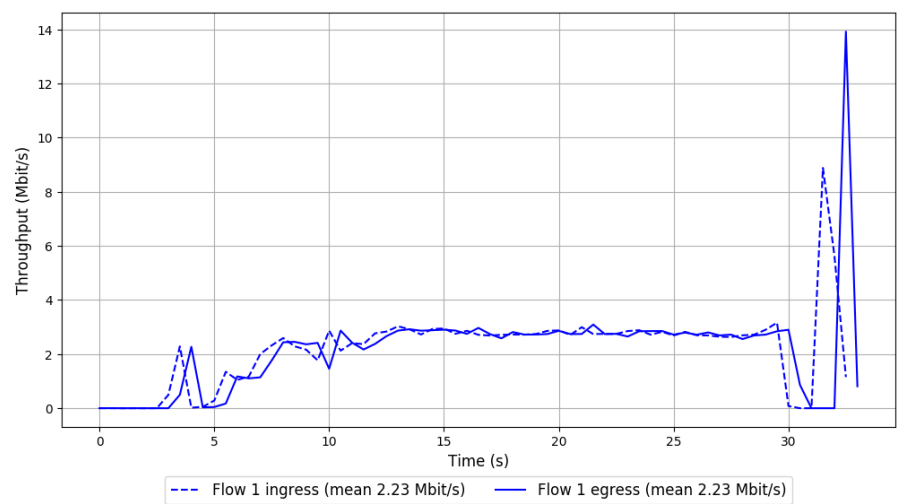
-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 98.669 ms

Loss rate: 0.65%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-02-11 23:28:49

End at: 2019-02-11 23:29:19

Local clock offset: -6.881 ms

Remote clock offset: 9.114 ms

Below is generated by plot.py at 2019-02-12 00:52:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.56 Mbit/s

95th percentile per-packet one-way delay: 94.370 ms

Loss rate: 0.36%

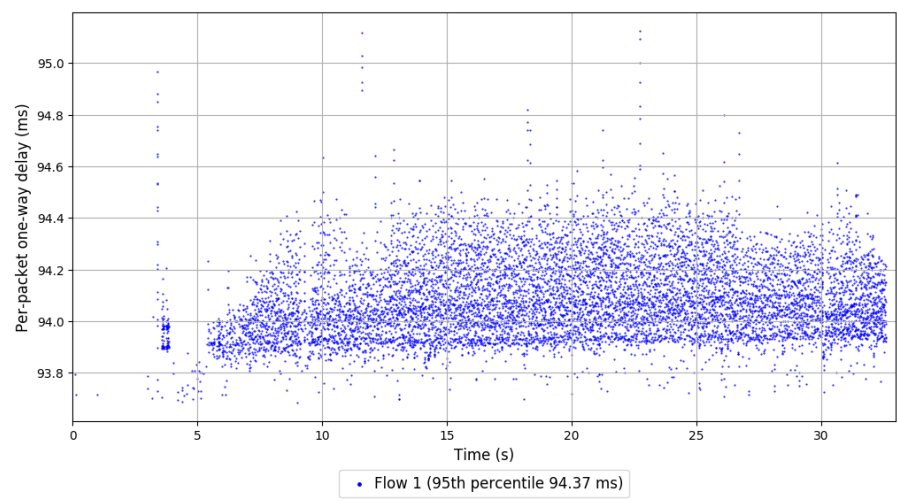
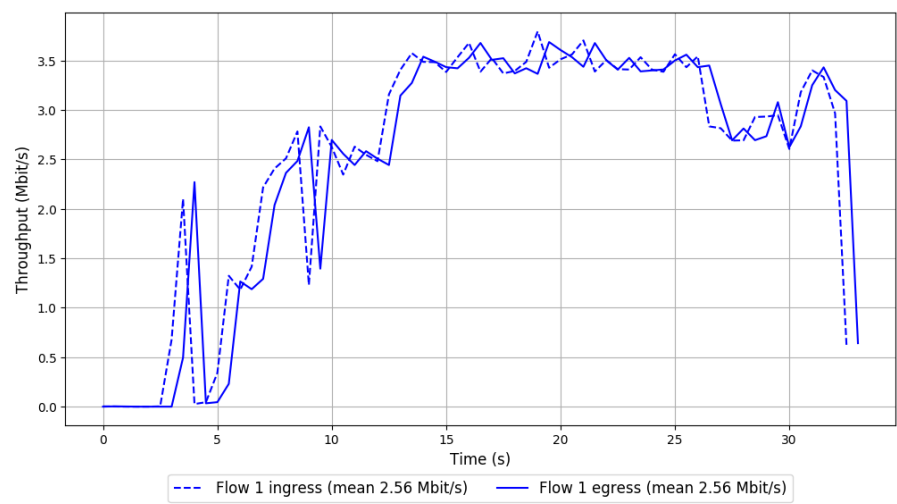
-- Flow 1:

Average throughput: 2.56 Mbit/s

95th percentile per-packet one-way delay: 94.370 ms

Loss rate: 0.36%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-02-11 23:55:10

End at: 2019-02-11 23:55:40

Local clock offset: -7.175 ms

Remote clock offset: 8.656 ms

Below is generated by plot.py at 2019-02-12 00:52:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 87.912 ms

Loss rate: 0.38%

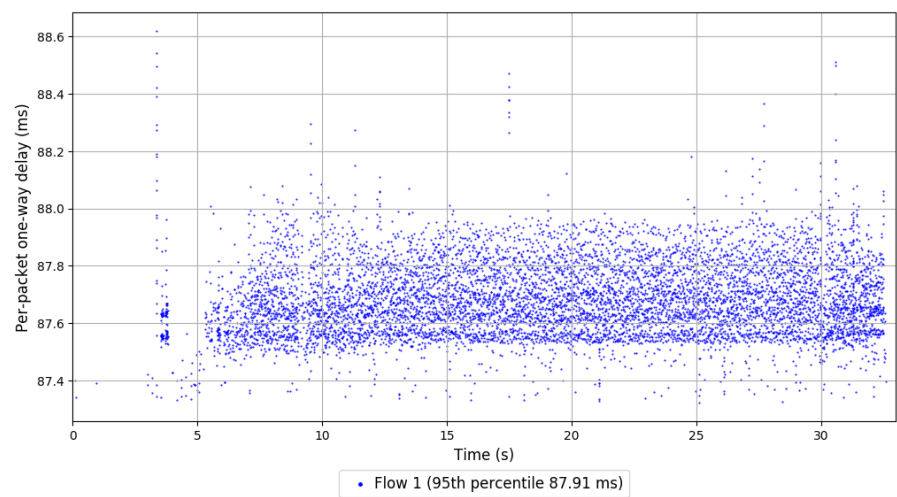
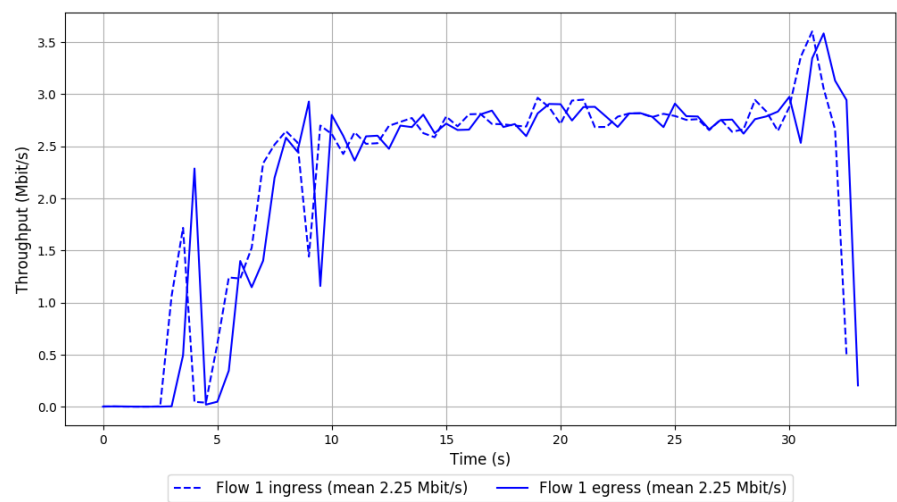
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 87.912 ms

Loss rate: 0.38%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-02-12 00:21:04

End at: 2019-02-12 00:21:34

Local clock offset: -6.174 ms

Remote clock offset: 3.287 ms

Below is generated by plot.py at 2019-02-12 00:52:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 93.961 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 93.961 ms

Loss rate: 0.36%

Run 5: Report of WebRTC media — Data Link

