

Pantheon Report

Generated at 2019-01-25 12:59:38 (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:

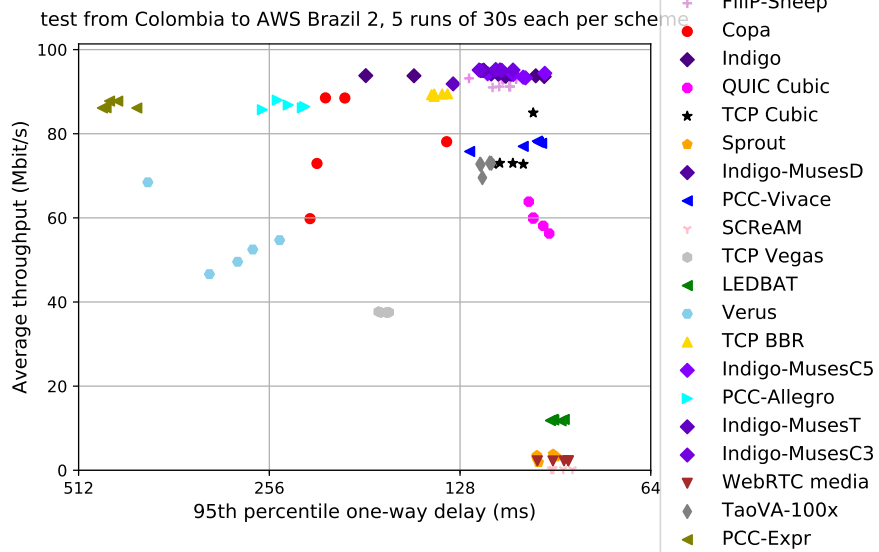
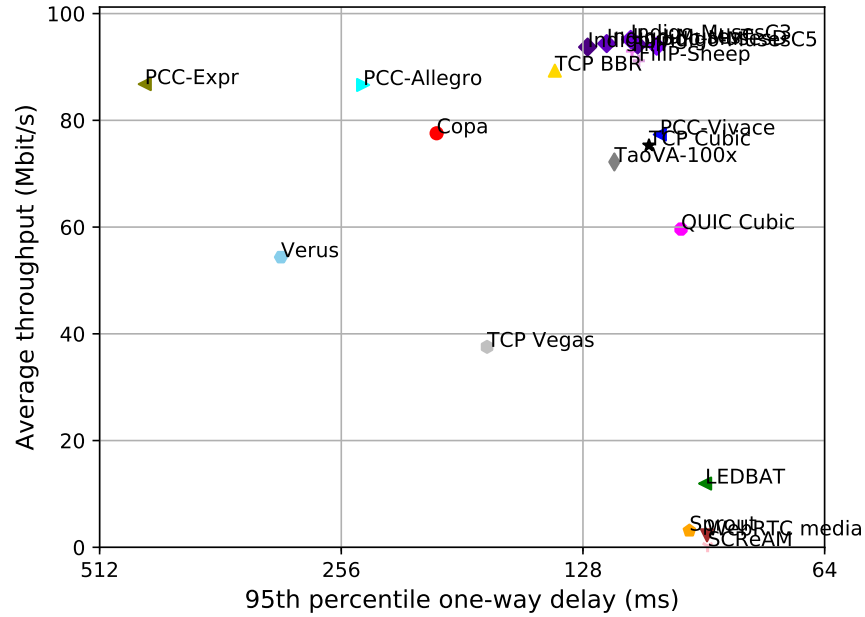
```
Linux 4.15.0-1031-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ 0b8e9a949603c3842368430acf469eec3b941f9f
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ d9c5ea33091330aca25ecd105ab2db6d34d5c40d
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	89.31	138.75	0.81
Copa	5	77.58	194.75	0.97
TCP Cubic	5	75.30	105.92	0.63
FillP	5	92.98	111.19	0.64
FillP-Sheep	5	91.16	109.06	0.66
Indigo	5	93.73	126.31	1.69
Indigo-MusesC3	5	95.16	111.62	6.66
Indigo-MusesC5	5	93.89	103.60	3.89
Indigo-MusesD	5	94.13	109.40	5.69
Indigo-MusesT	5	94.38	119.58	7.84
LEDBAT	5	11.95	90.17	1.15
PCC-Allegro	5	86.63	240.46	0.76
PCC-Expr	5	86.79	449.81	1.51
QUIC Cubic	5	59.63	96.62	0.85
SCReAM	5	0.22	89.52	0.59
Sprout	5	3.13	94.32	0.81
TaoVA-100x	5	72.20	116.98	0.61
TCP Vegas	5	37.56	168.52	0.67
Verus	5	54.37	304.41	0.78
PCC-Vivace	5	77.34	102.68	0.72
WebRTC media	5	2.24	89.68	0.37

Run 1: Statistics of TCP BBR

Start at: 2019-01-25 11:04:06

End at: 2019-01-25 11:04:36

Local clock offset: -1.997 ms

Remote clock offset: 3.772 ms

Below is generated by plot.py at 2019-01-25 12:48:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.28 Mbit/s

95th percentile per-packet one-way delay: 141.951 ms

Loss rate: 0.95%

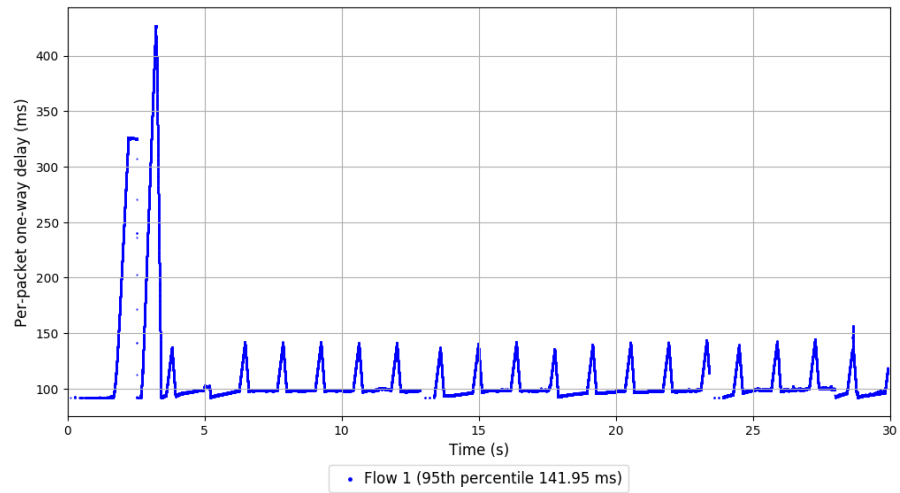
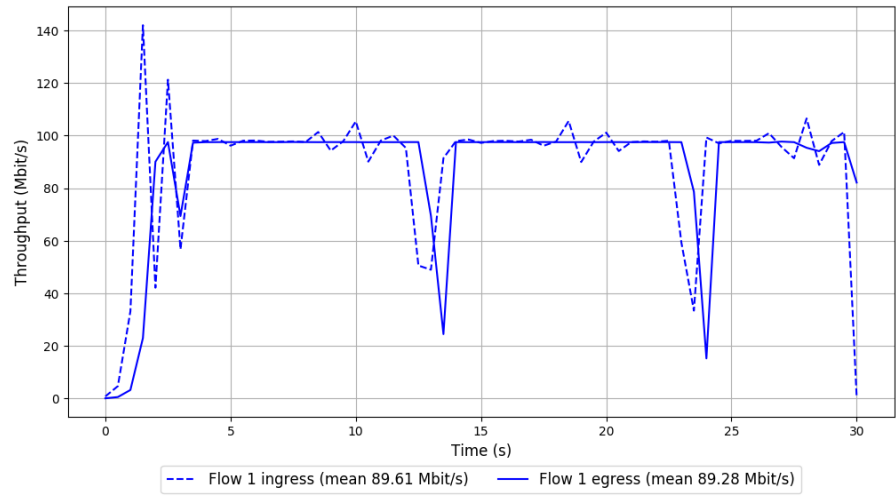
-- Flow 1:

Average throughput: 89.28 Mbit/s

95th percentile per-packet one-way delay: 141.951 ms

Loss rate: 0.95%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-01-25 11:29:05

End at: 2019-01-25 11:29:35

Local clock offset: -2.836 ms

Remote clock offset: 2.562 ms

Below is generated by plot.py at 2019-01-25 12:48:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.89 Mbit/s

95th percentile per-packet one-way delay: 140.667 ms

Loss rate: 0.75%

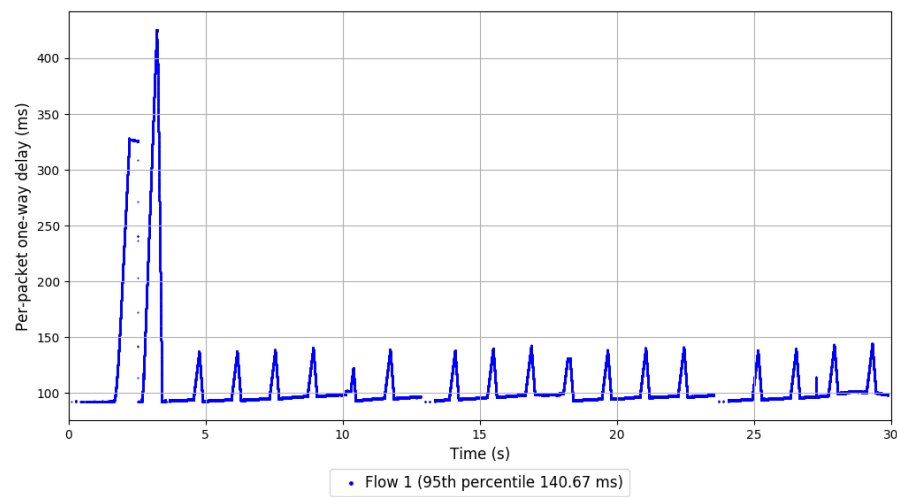
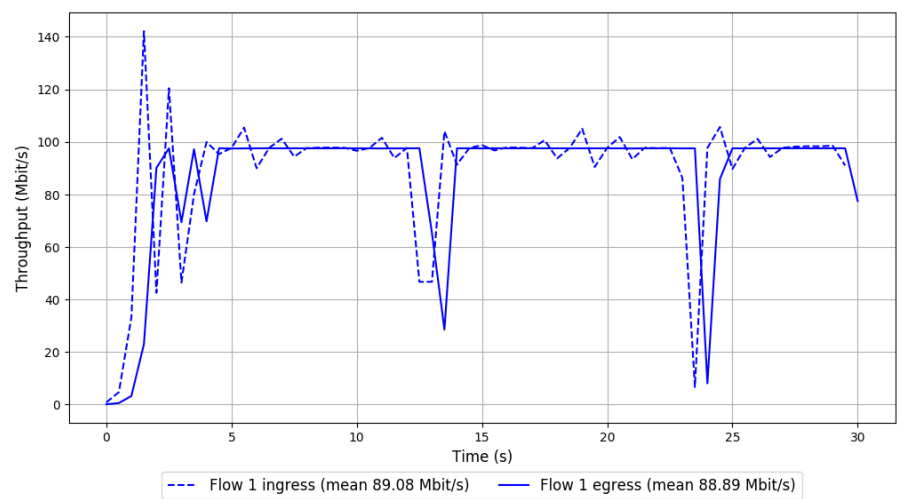
-- Flow 1:

Average throughput: 88.89 Mbit/s

95th percentile per-packet one-way delay: 140.667 ms

Loss rate: 0.75%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-01-25 11:54:03

End at: 2019-01-25 11:54:33

Local clock offset: -7.415 ms

Remote clock offset: 5.656 ms

Below is generated by plot.py at 2019-01-25 12:48:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.45 Mbit/s

95th percentile per-packet one-way delay: 136.567 ms

Loss rate: 0.76%

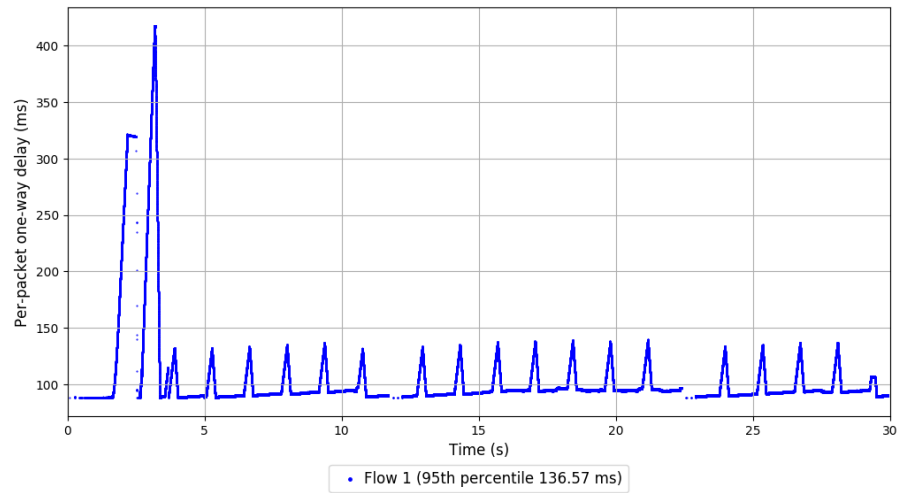
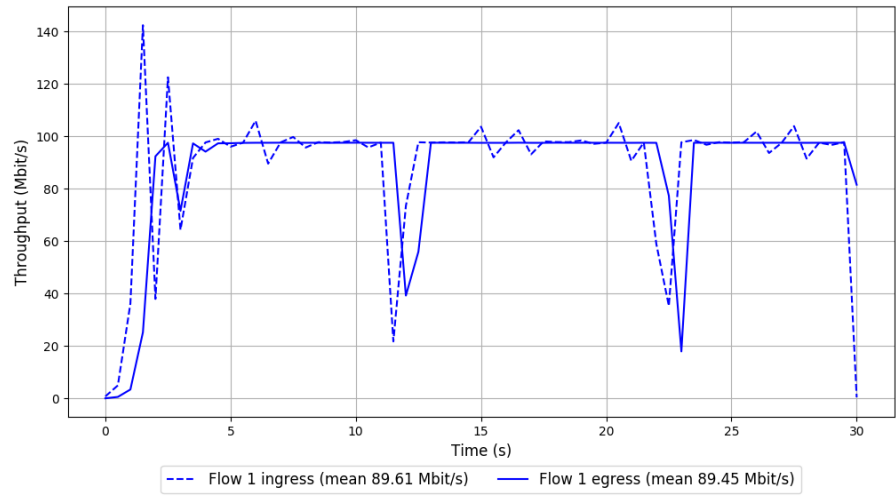
-- Flow 1:

Average throughput: 89.45 Mbit/s

95th percentile per-packet one-way delay: 136.567 ms

Loss rate: 0.76%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-01-25 12:19:04

End at: 2019-01-25 12:19:34

Local clock offset: -1.817 ms

Remote clock offset: 9.402 ms

Below is generated by plot.py at 2019-01-25 12:48:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.50 Mbit/s

95th percentile per-packet one-way delay: 133.939 ms

Loss rate: 0.82%

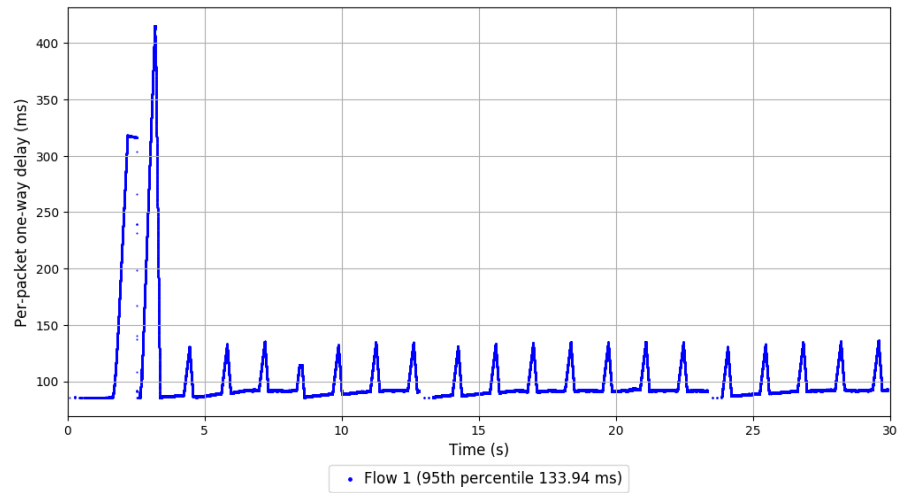
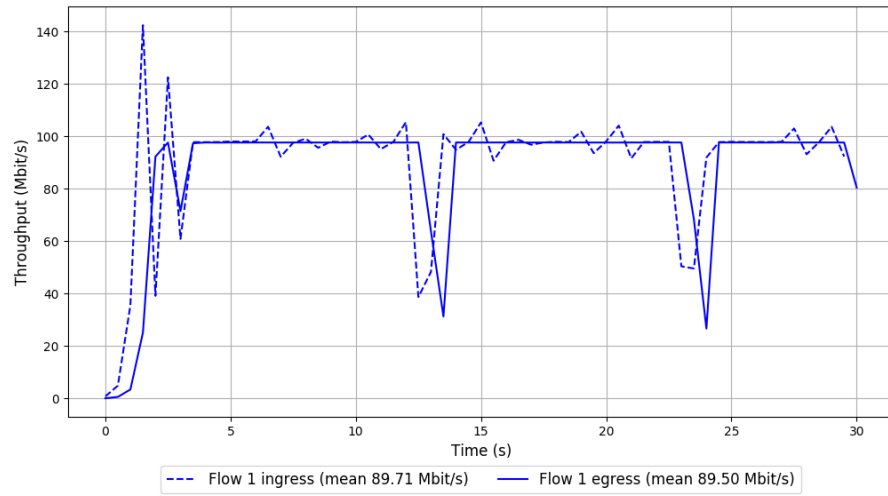
-- Flow 1:

Average throughput: 89.50 Mbit/s

95th percentile per-packet one-way delay: 133.939 ms

Loss rate: 0.82%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-01-25 12:44:04

End at: 2019-01-25 12:44:34

Local clock offset: -2.322 ms

Remote clock offset: 3.332 ms

Below is generated by plot.py at 2019-01-25 12:48:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.44 Mbit/s

95th percentile per-packet one-way delay: 140.607 ms

Loss rate: 0.78%

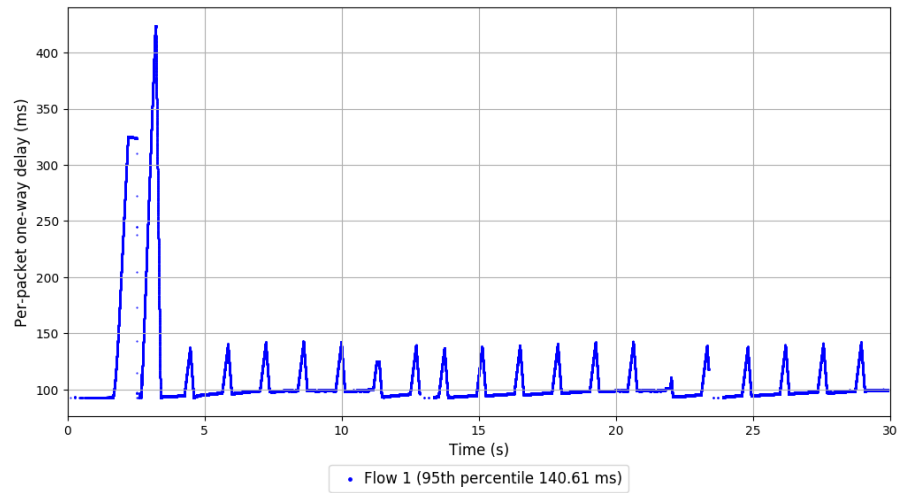
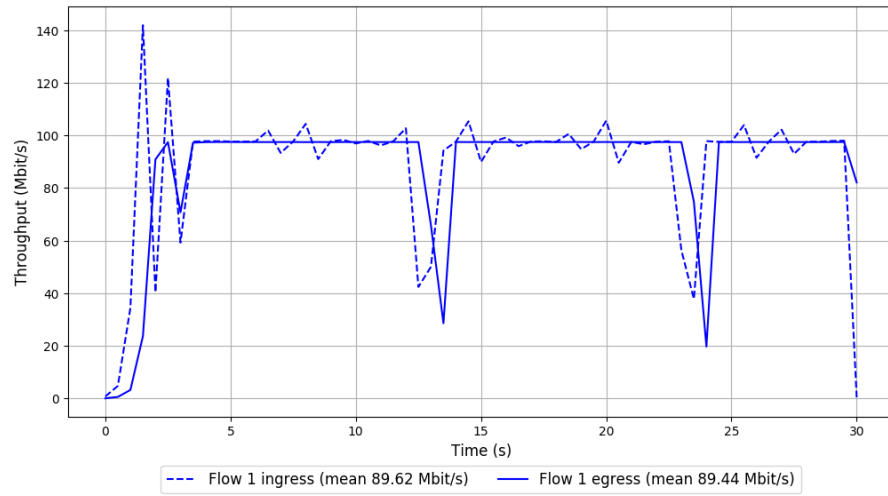
-- Flow 1:

Average throughput: 89.44 Mbit/s

95th percentile per-packet one-way delay: 140.607 ms

Loss rate: 0.78%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-01-25 10:58:03

End at: 2019-01-25 10:58:33

Local clock offset: -1.705 ms

Remote clock offset: 2.637 ms

Below is generated by plot.py at 2019-01-25 12:48:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.82 Mbit/s

95th percentile per-packet one-way delay: 220.778 ms

Loss rate: 1.12%

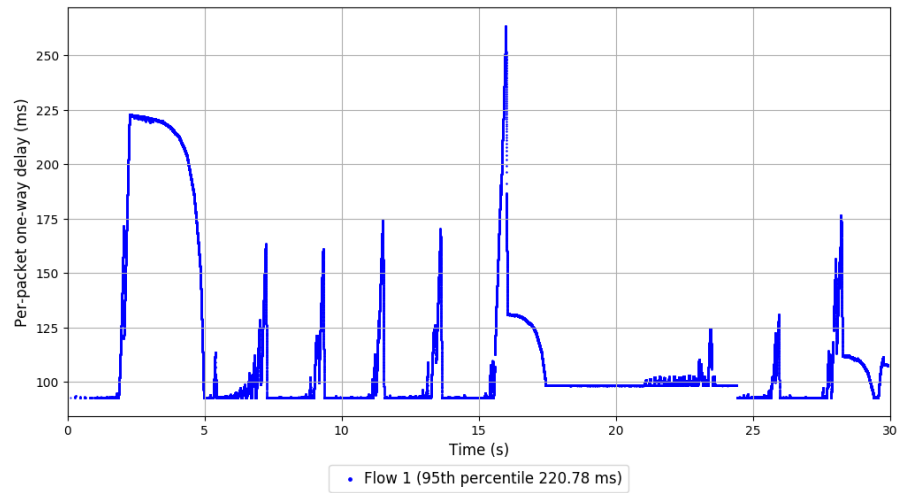
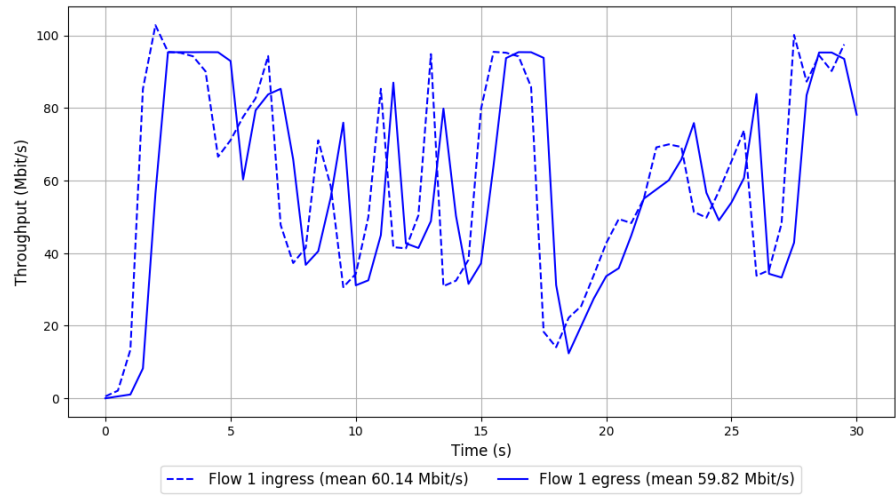
-- Flow 1:

Average throughput: 59.82 Mbit/s

95th percentile per-packet one-way delay: 220.778 ms

Loss rate: 1.12%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-01-25 11:23:01

End at: 2019-01-25 11:23:31

Local clock offset: -2.96 ms

Remote clock offset: 7.423 ms

Below is generated by plot.py at 2019-01-25 12:49:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.93 Mbit/s

95th percentile per-packet one-way delay: 215.294 ms

Loss rate: 1.24%

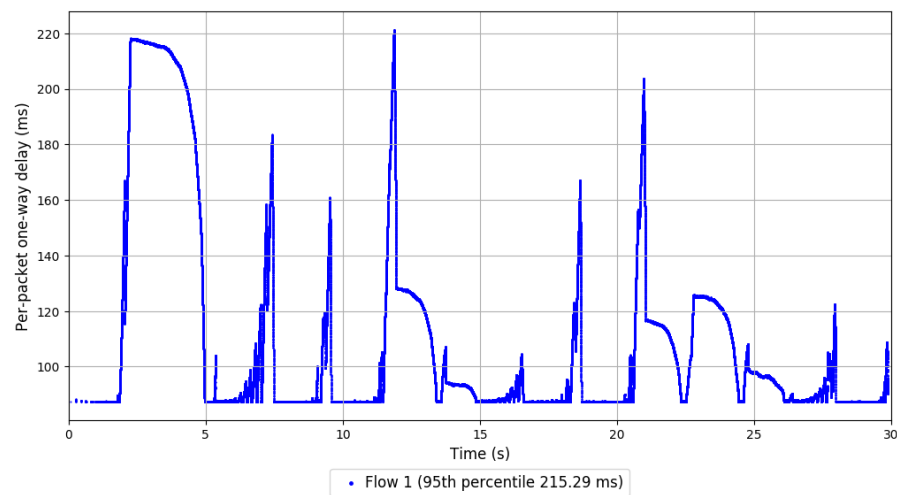
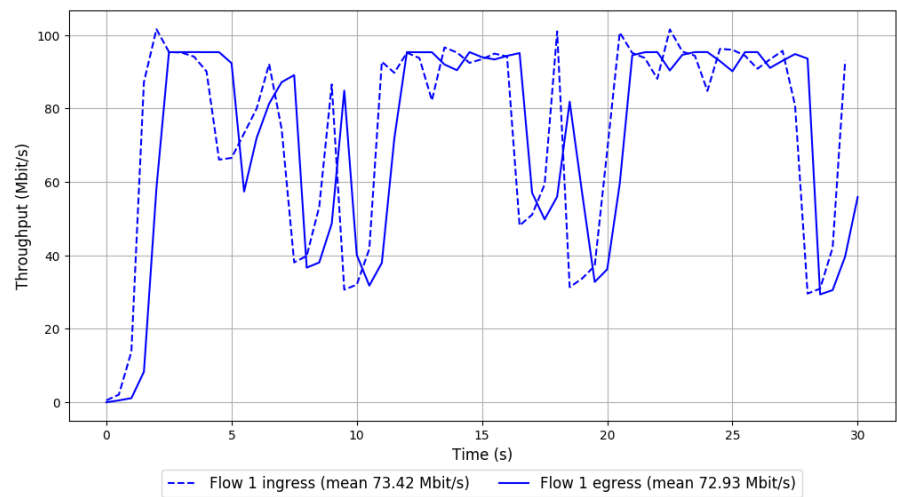
-- Flow 1:

Average throughput: 72.93 Mbit/s

95th percentile per-packet one-way delay: 215.294 ms

Loss rate: 1.24%

Run 2: Report of Copa — Data Link

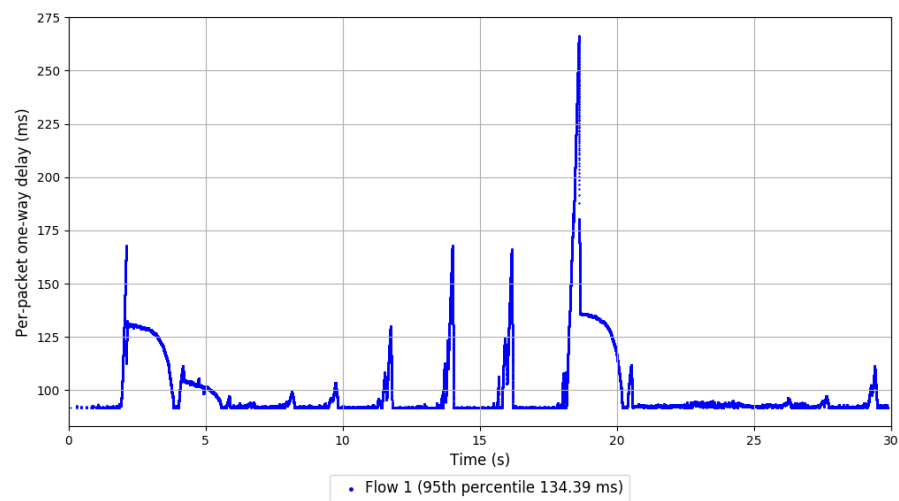
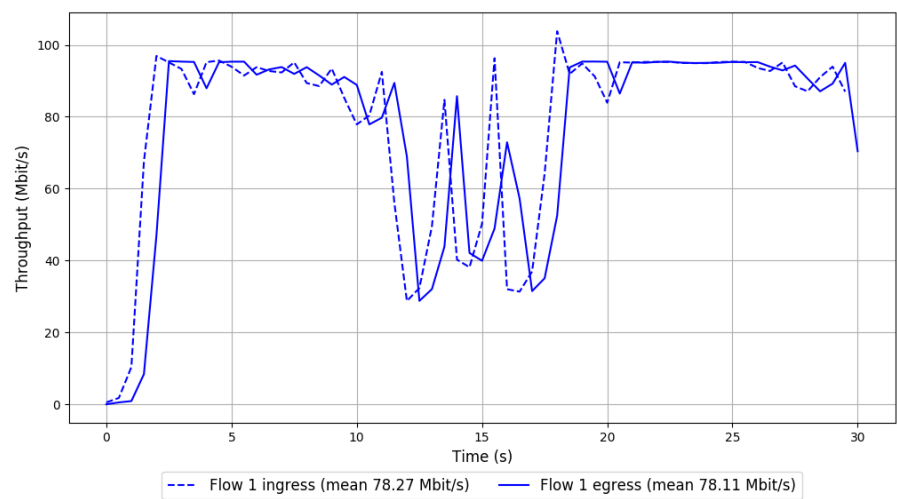


Run 3: Statistics of Copa

Start at: 2019-01-25 11:47:59
End at: 2019-01-25 11:48:29
Local clock offset: -7.655 ms
Remote clock offset: 7.909 ms

Below is generated by plot.py at 2019-01-25 12:49:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 78.11 Mbit/s
95th percentile per-packet one-way delay: 134.387 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 78.11 Mbit/s
95th percentile per-packet one-way delay: 134.387 ms
Loss rate: 0.80%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-01-25 12:12:59

End at: 2019-01-25 12:13:29

Local clock offset: -2.738 ms

Remote clock offset: 7.645 ms

Below is generated by plot.py at 2019-01-25 12:50:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.49 Mbit/s

95th percentile per-packet one-way delay: 194.552 ms

Loss rate: 0.65%

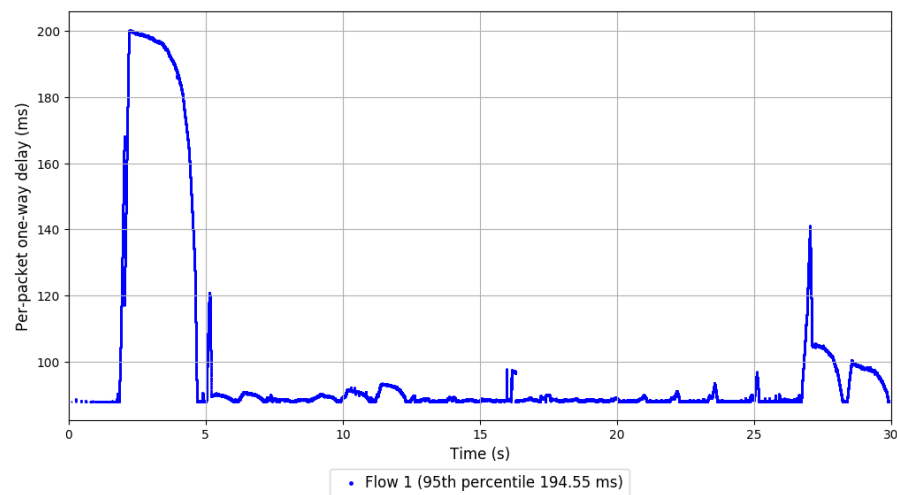
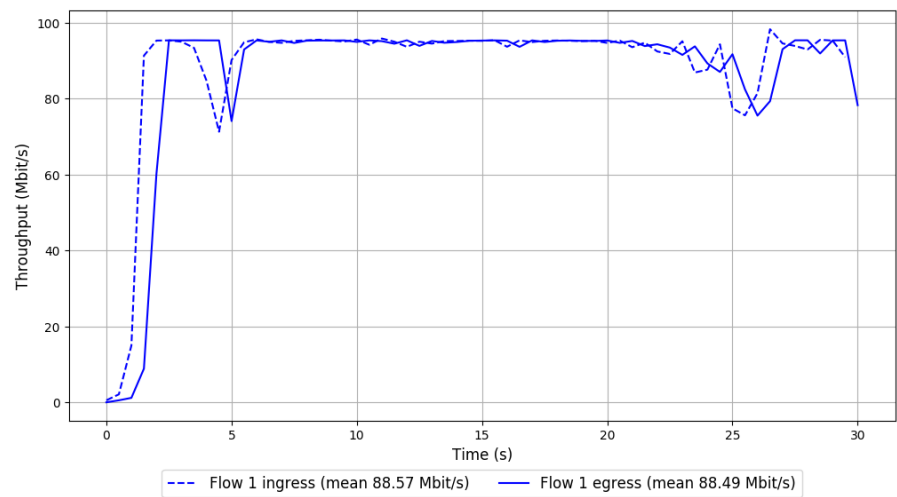
-- Flow 1:

Average throughput: 88.49 Mbit/s

95th percentile per-packet one-way delay: 194.552 ms

Loss rate: 0.65%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-01-25 12:37:58

End at: 2019-01-25 12:38:29

Local clock offset: -2.806 ms

Remote clock offset: 4.239 ms

Below is generated by plot.py at 2019-01-25 12:50:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.53 Mbit/s

95th percentile per-packet one-way delay: 208.752 ms

Loss rate: 1.02%

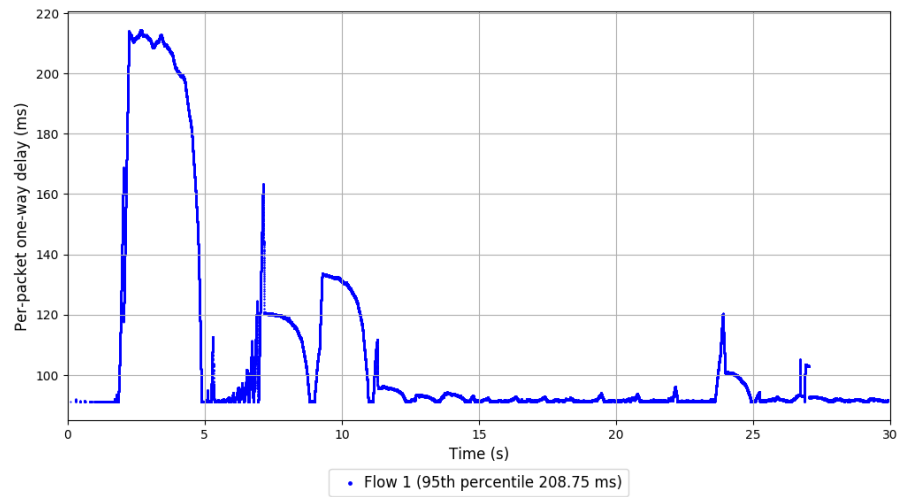
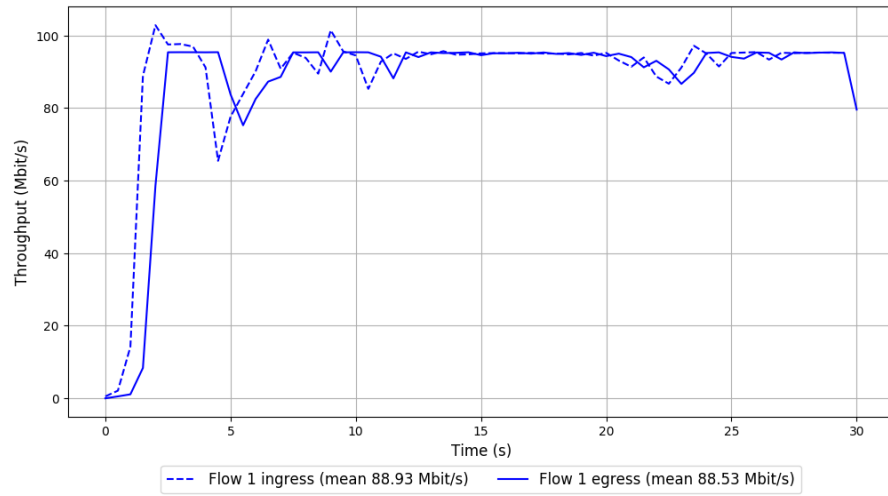
-- Flow 1:

Average throughput: 88.53 Mbit/s

95th percentile per-packet one-way delay: 208.752 ms

Loss rate: 1.02%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-01-25 10:48:39

End at: 2019-01-25 10:49:09

Local clock offset: -2.436 ms

Remote clock offset: 2.097 ms

Below is generated by plot.py at 2019-01-25 12:50:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.76 Mbit/s

95th percentile per-packet one-way delay: 113.385 ms

Loss rate: 0.67%

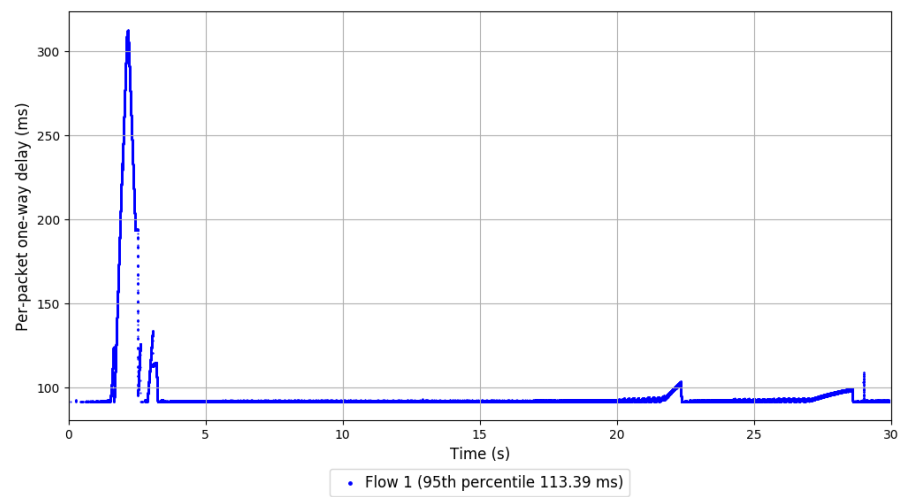
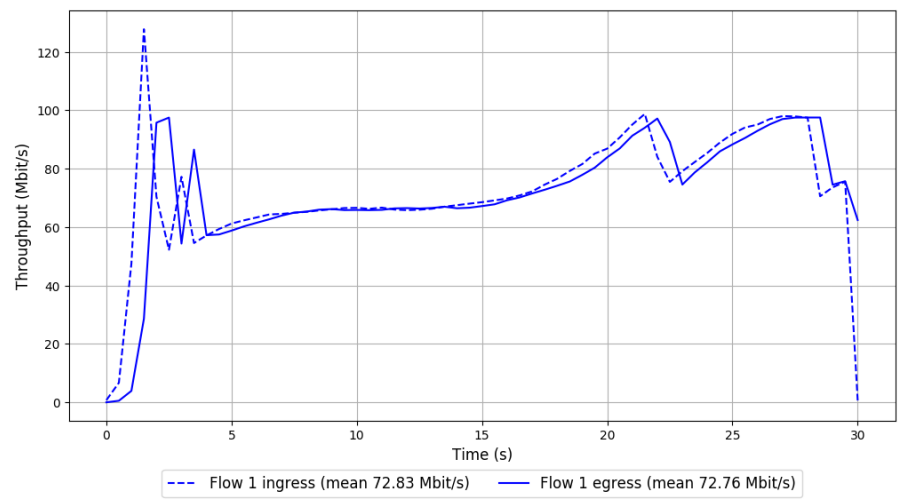
-- Flow 1:

Average throughput: 72.76 Mbit/s

95th percentile per-packet one-way delay: 113.385 ms

Loss rate: 0.67%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-01-25 11:13:37

End at: 2019-01-25 11:14:07

Local clock offset: -3.023 ms

Remote clock offset: 8.109 ms

Below is generated by plot.py at 2019-01-25 12:50:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.77 Mbit/s

95th percentile per-packet one-way delay: 101.694 ms

Loss rate: 0.64%

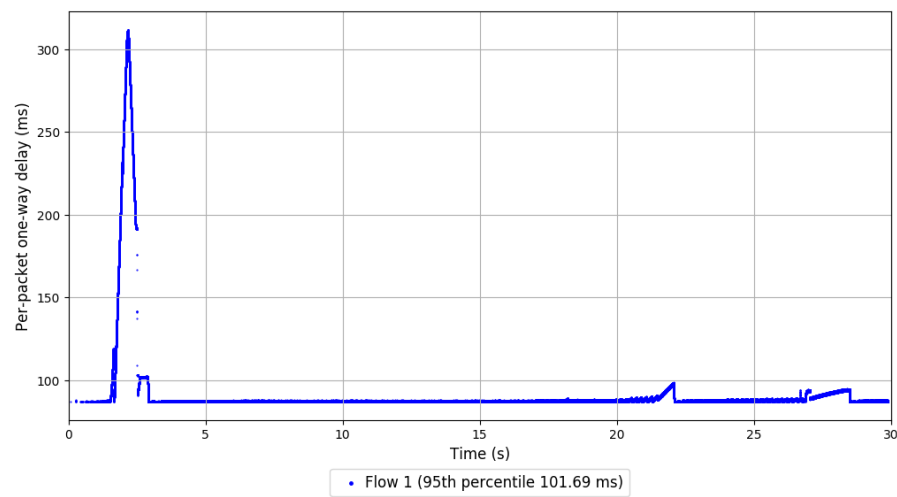
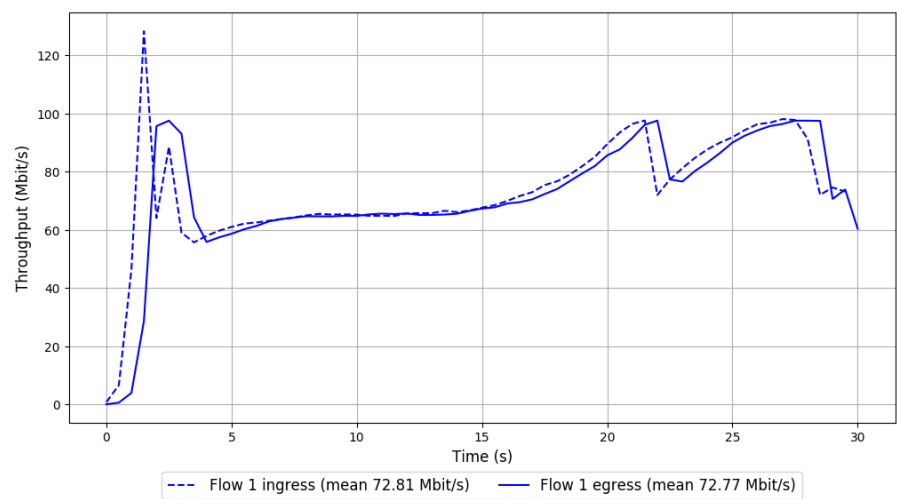
-- Flow 1:

Average throughput: 72.77 Mbit/s

95th percentile per-packet one-way delay: 101.694 ms

Loss rate: 0.64%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2019-01-25 11:38:36

End at: 2019-01-25 11:39:06

Local clock offset: -5.45 ms

Remote clock offset: 2.233 ms

Below is generated by plot.py at 2019-01-25 12:50:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.01 Mbit/s

95th percentile per-packet one-way delay: 110.787 ms

Loss rate: 0.64%

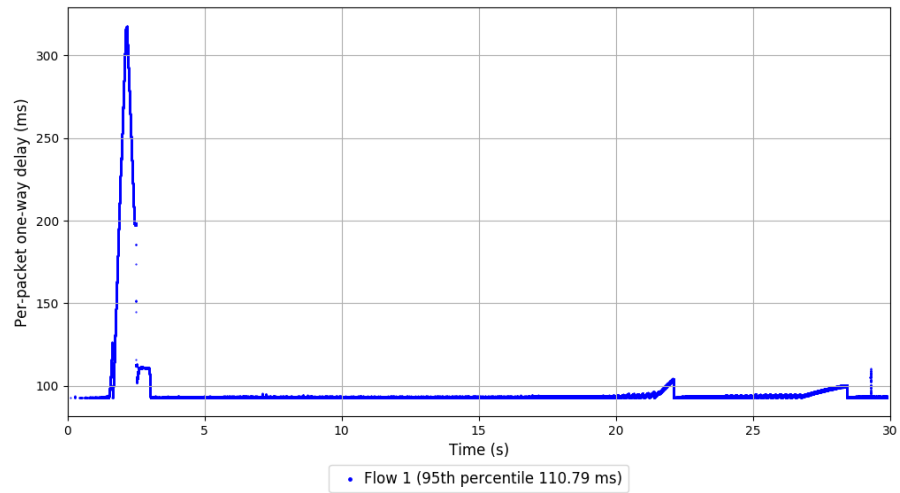
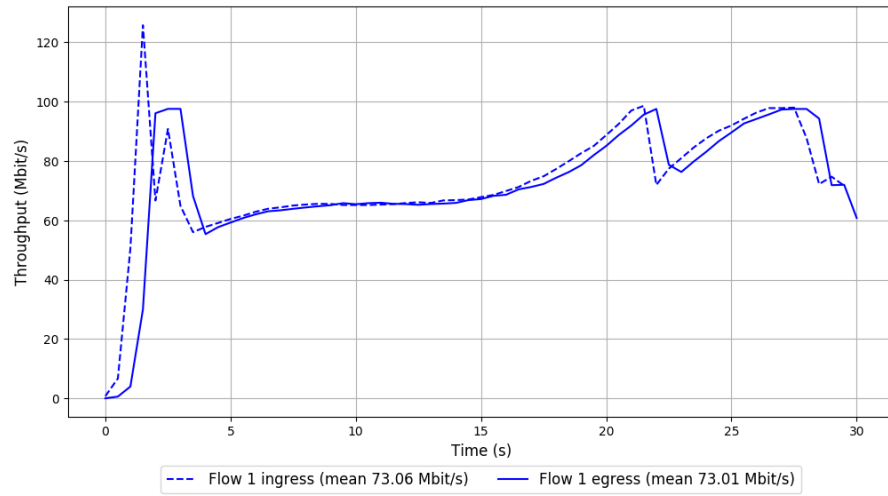
-- Flow 1:

Average throughput: 73.01 Mbit/s

95th percentile per-packet one-way delay: 110.787 ms

Loss rate: 0.64%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-01-25 12:03:35

End at: 2019-01-25 12:04:05

Local clock offset: -6.252 ms

Remote clock offset: 8.599 ms

Below is generated by plot.py at 2019-01-25 12:50:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.97 Mbit/s

95th percentile per-packet one-way delay: 98.100 ms

Loss rate: 0.59%

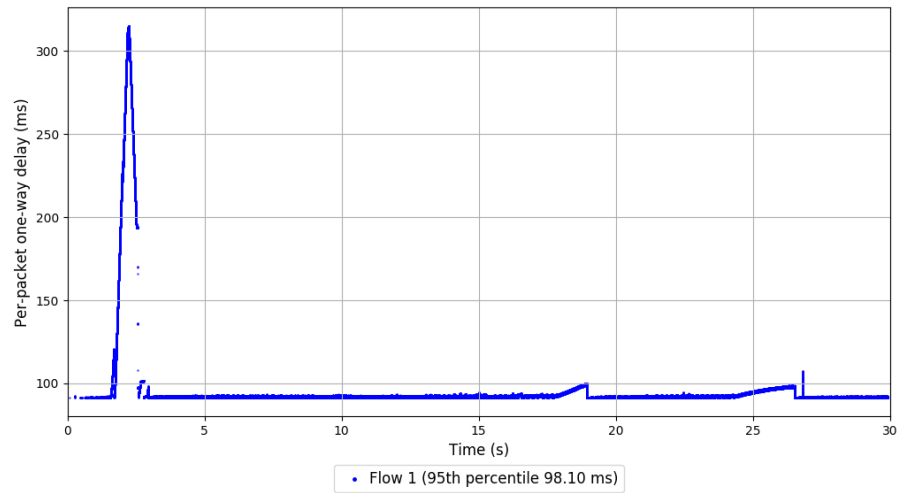
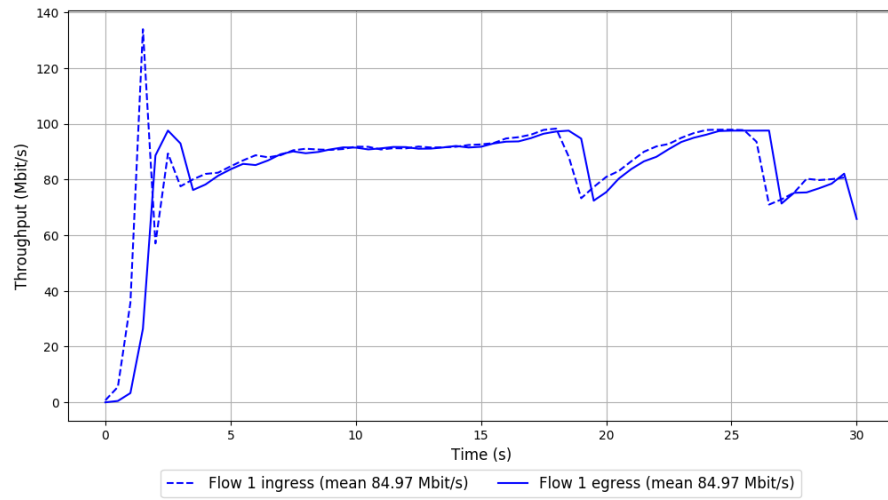
-- Flow 1:

Average throughput: 84.97 Mbit/s

95th percentile per-packet one-way delay: 98.100 ms

Loss rate: 0.59%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-01-25 12:28:35

End at: 2019-01-25 12:29:05

Local clock offset: -1.799 ms

Remote clock offset: 3.286 ms

Below is generated by plot.py at 2019-01-25 12:50:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.99 Mbit/s

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

Loss rate: 0.63%

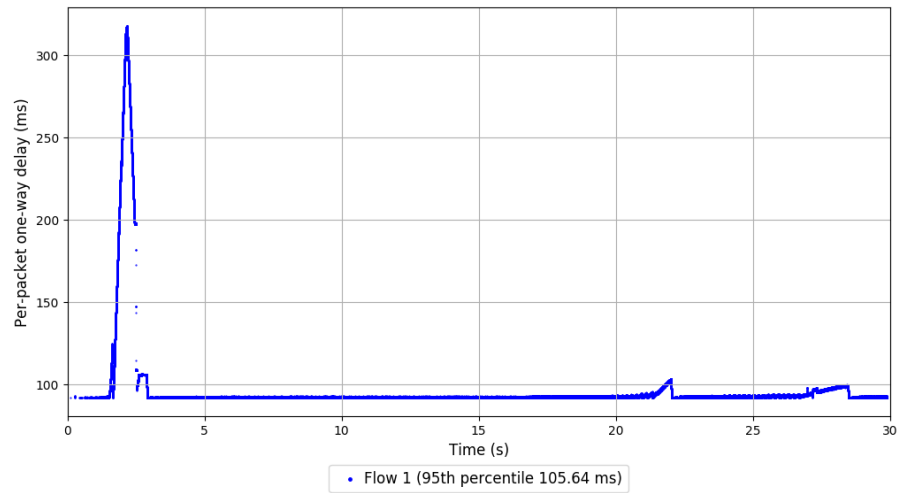
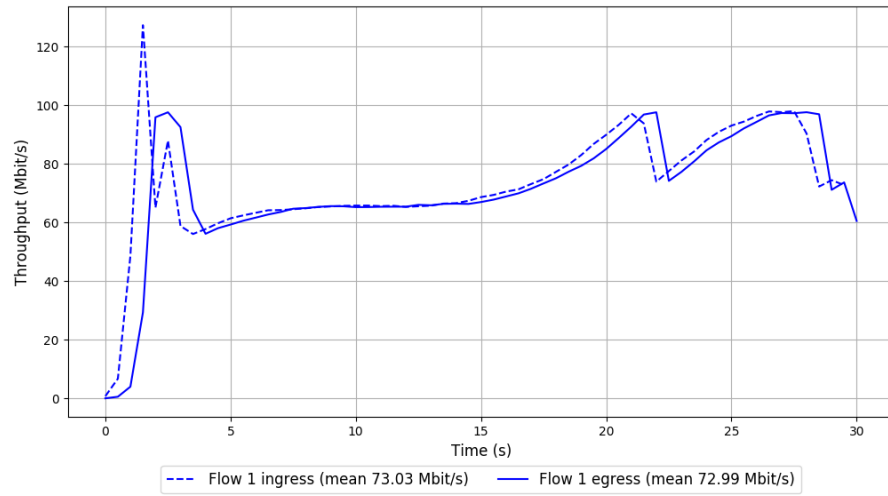
-- Flow 1:

Average throughput: 72.99 Mbit/s

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

Loss rate: 0.63%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-01-25 10:45:10

End at: 2019-01-25 10:45:40

Local clock offset: -3.629 ms

Remote clock offset: 2.121 ms

Below is generated by plot.py at 2019-01-25 12:50:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.86 Mbit/s

95th percentile per-packet one-way delay: 109.511 ms

Loss rate: 0.61%

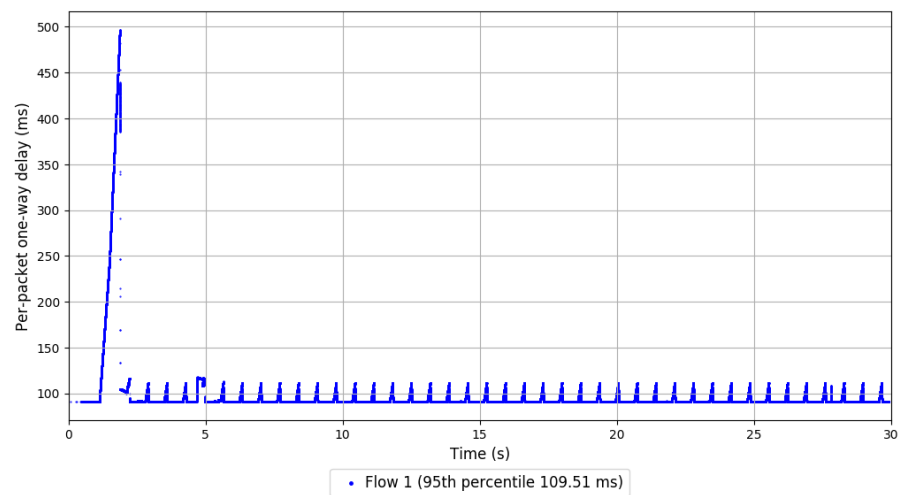
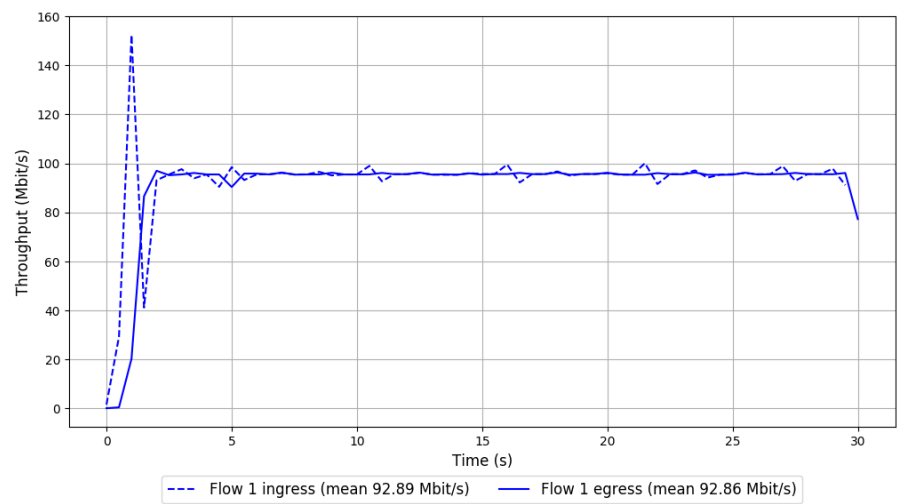
-- Flow 1:

Average throughput: 92.86 Mbit/s

95th percentile per-packet one-way delay: 109.511 ms

Loss rate: 0.61%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-01-25 11:10:09

End at: 2019-01-25 11:10:39

Local clock offset: -2.219 ms

Remote clock offset: 8.01 ms

Below is generated by plot.py at 2019-01-25 12:50:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.96 Mbit/s

95th percentile per-packet one-way delay: 104.375 ms

Loss rate: 0.61%

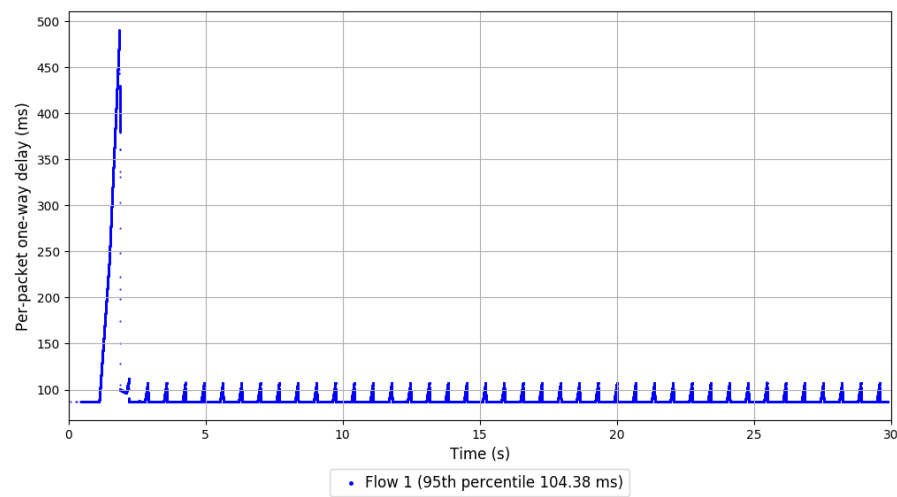
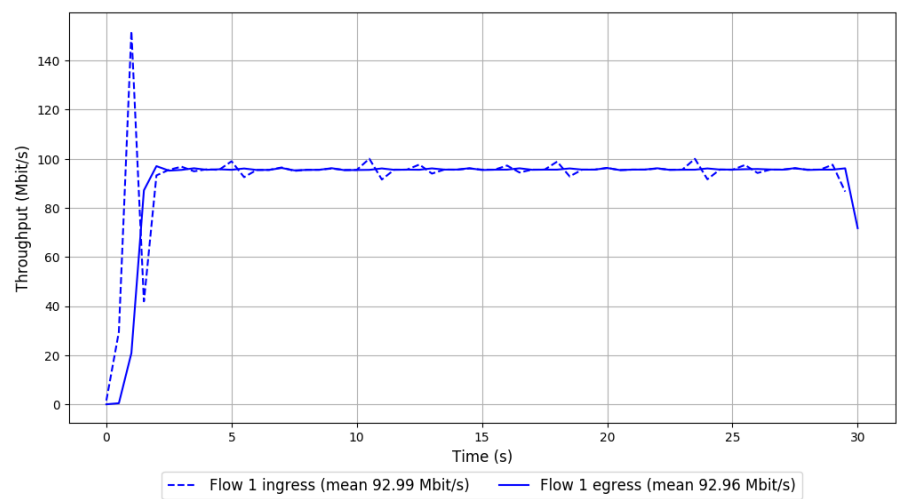
-- Flow 1:

Average throughput: 92.96 Mbit/s

95th percentile per-packet one-way delay: 104.375 ms

Loss rate: 0.61%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-01-25 11:35:07

End at: 2019-01-25 11:35:37

Local clock offset: -4.454 ms

Remote clock offset: 8.525 ms

Below is generated by plot.py at 2019-01-25 12:50:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.16 Mbit/s

95th percentile per-packet one-way delay: 123.873 ms

Loss rate: 0.77%

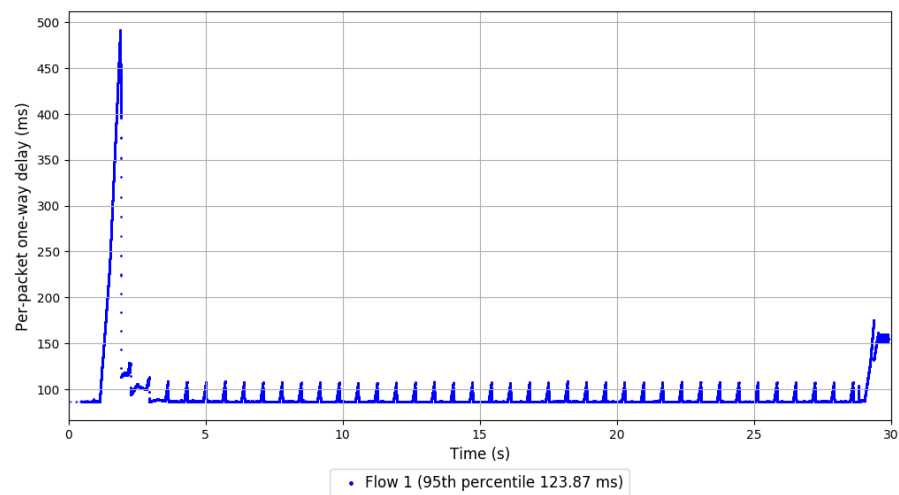
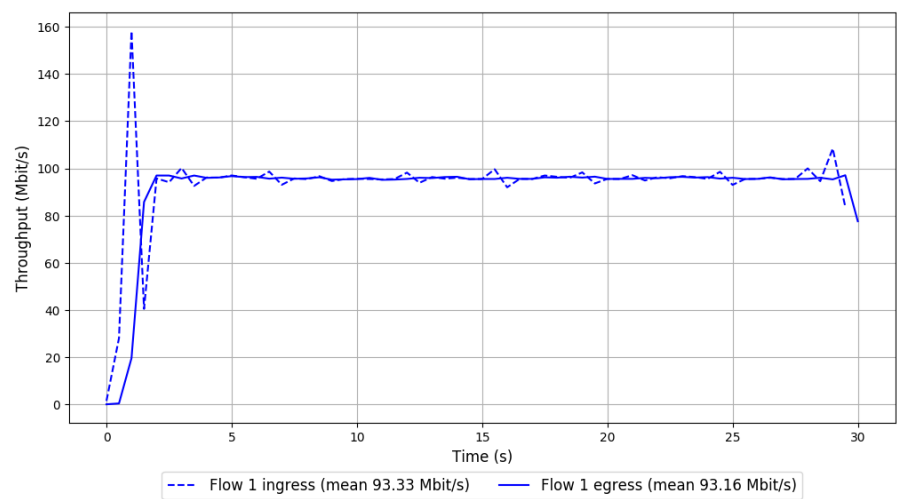
-- Flow 1:

Average throughput: 93.16 Mbit/s

95th percentile per-packet one-way delay: 123.873 ms

Loss rate: 0.77%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-01-25 12:00:06

End at: 2019-01-25 12:00:36

Local clock offset: -8.395 ms

Remote clock offset: 3.278 ms

Below is generated by plot.py at 2019-01-25 12:50:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.02 Mbit/s

95th percentile per-packet one-way delay: 108.461 ms

Loss rate: 0.63%

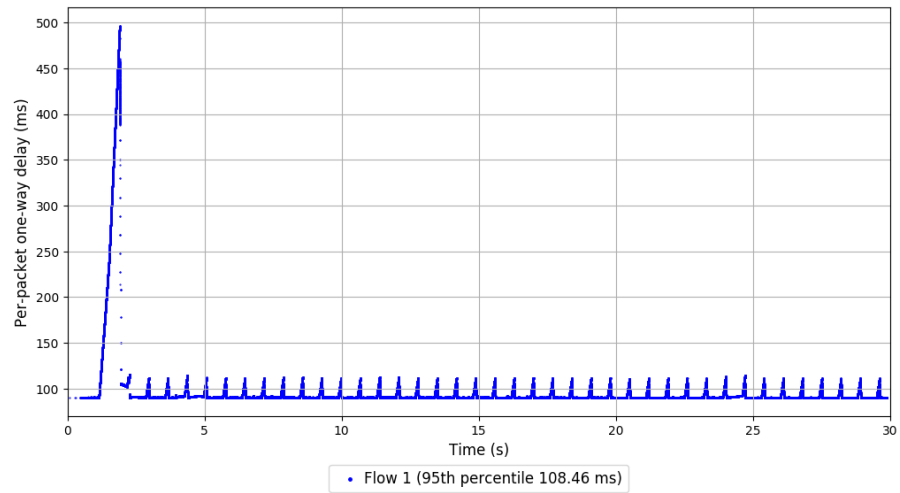
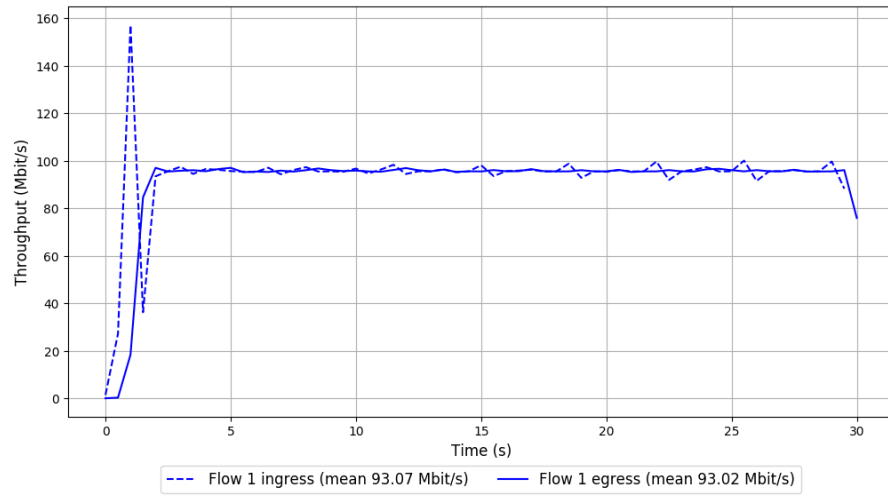
-- Flow 1:

Average throughput: 93.02 Mbit/s

95th percentile per-packet one-way delay: 108.461 ms

Loss rate: 0.63%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-01-25 12:25:06

End at: 2019-01-25 12:25:36

Local clock offset: -2.116 ms

Remote clock offset: 2.991 ms

Below is generated by plot.py at 2019-01-25 12:51:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.90 Mbit/s

95th percentile per-packet one-way delay: 109.724 ms

Loss rate: 0.60%

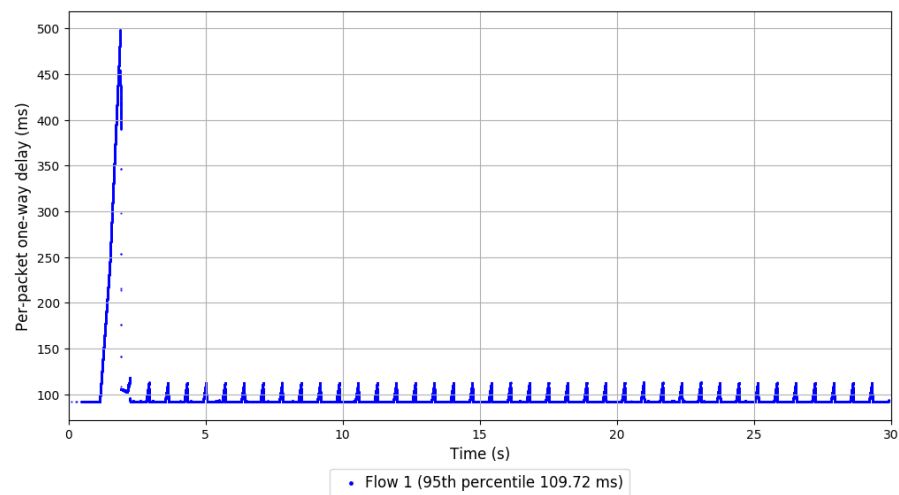
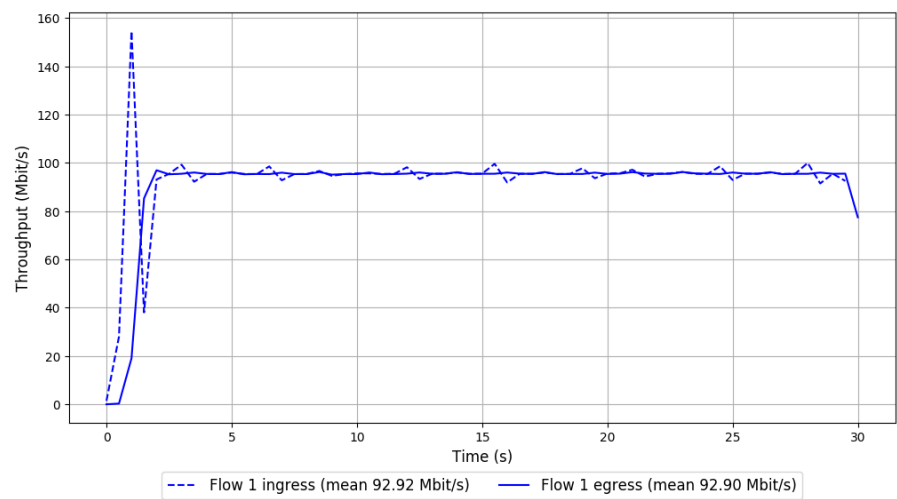
-- Flow 1:

Average throughput: 92.90 Mbit/s

95th percentile per-packet one-way delay: 109.724 ms

Loss rate: 0.60%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-01-25 10:53:20

End at: 2019-01-25 10:53:50

Local clock offset: -2.079 ms

Remote clock offset: 7.241 ms

Below is generated by plot.py at 2019-01-25 12:51:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.20 Mbit/s

95th percentile per-packet one-way delay: 107.047 ms

Loss rate: 0.64%

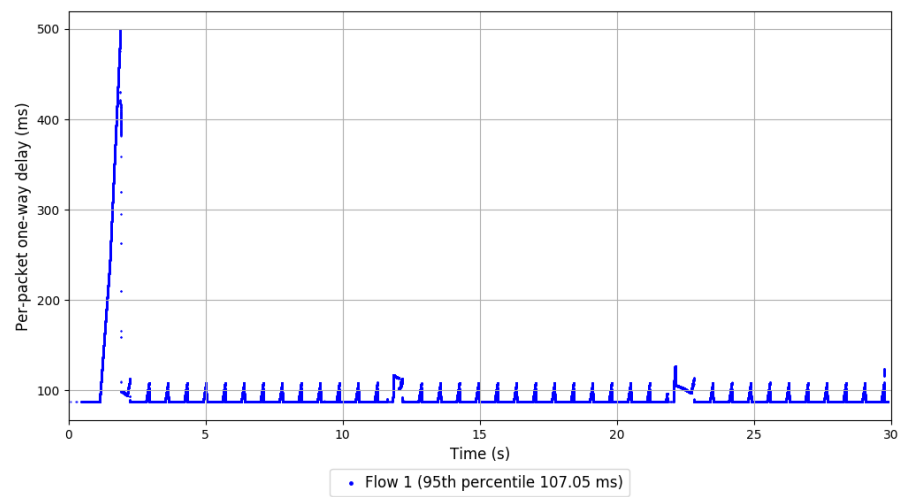
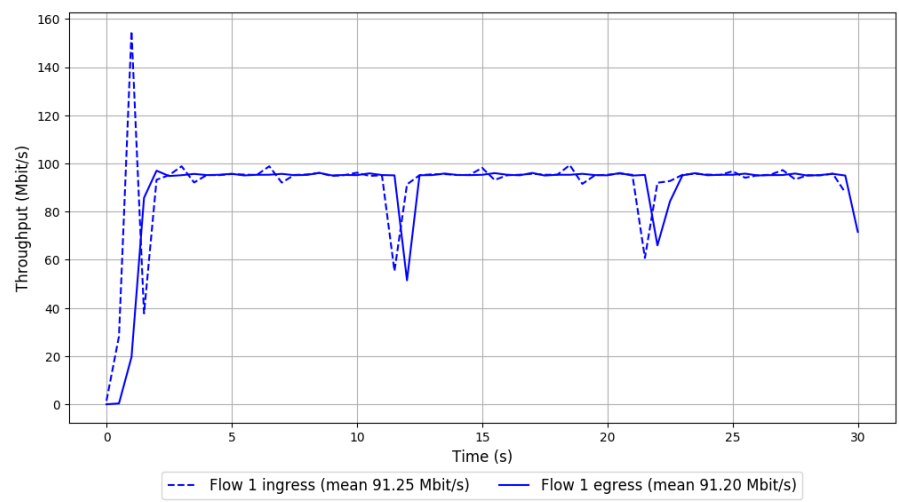
-- Flow 1:

Average throughput: 91.20 Mbit/s

95th percentile per-packet one-way delay: 107.047 ms

Loss rate: 0.64%

Run 1: Report of FillP-Sheep — Data Link

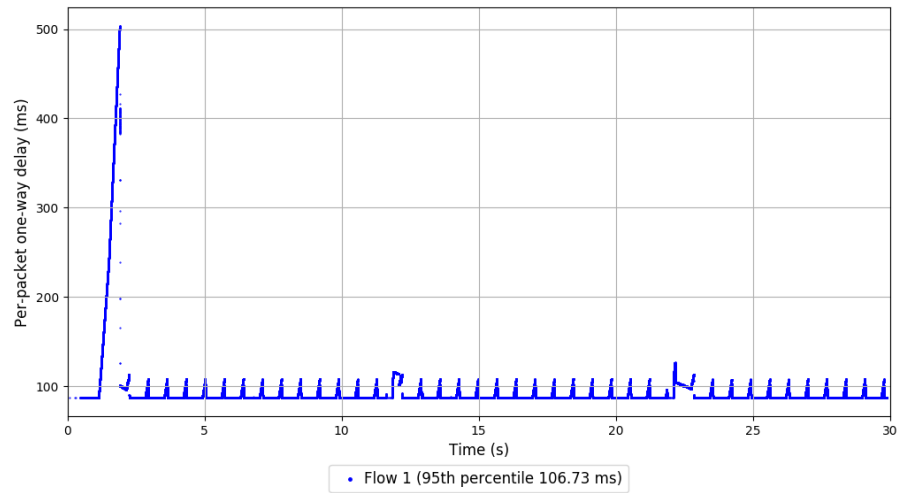
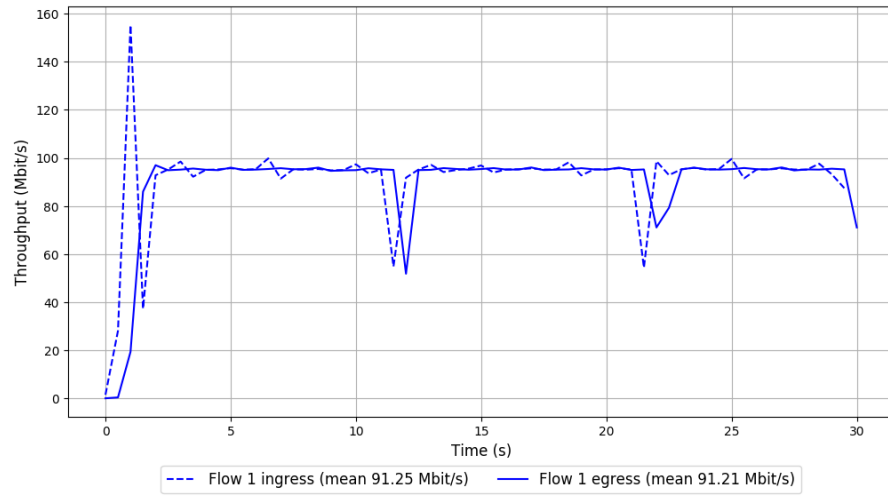


Run 2: Statistics of FillP-Sheep

Start at: 2019-01-25 11:18:18
End at: 2019-01-25 11:18:48
Local clock offset: -2.231 ms
Remote clock offset: 8.146 ms

Below is generated by plot.py at 2019-01-25 12:51:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.21 Mbit/s
95th percentile per-packet one-way delay: 106.735 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 91.21 Mbit/s
95th percentile per-packet one-way delay: 106.735 ms
Loss rate: 0.62%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-01-25 11:43:17

End at: 2019-01-25 11:43:47

Local clock offset: -7.137 ms

Remote clock offset: 6.726 ms

Below is generated by plot.py at 2019-01-25 12:51:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.19 Mbit/s

95th percentile per-packet one-way delay: 106.769 ms

Loss rate: 0.73%

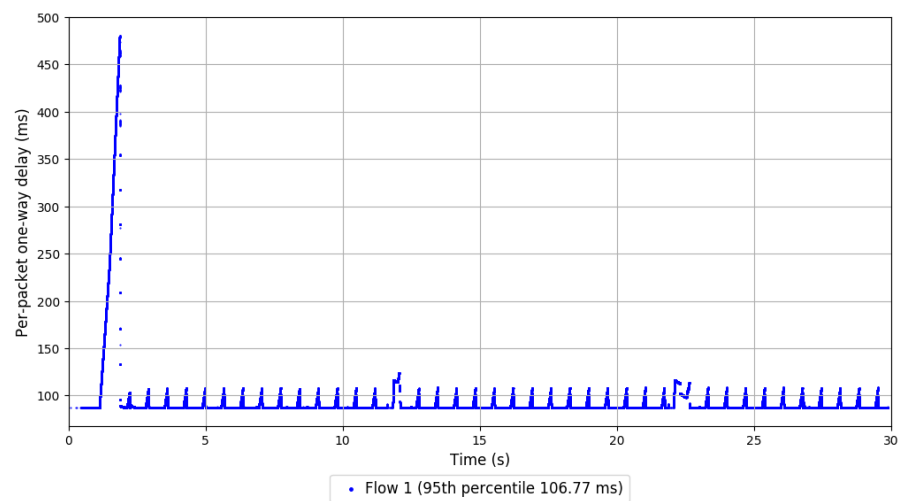
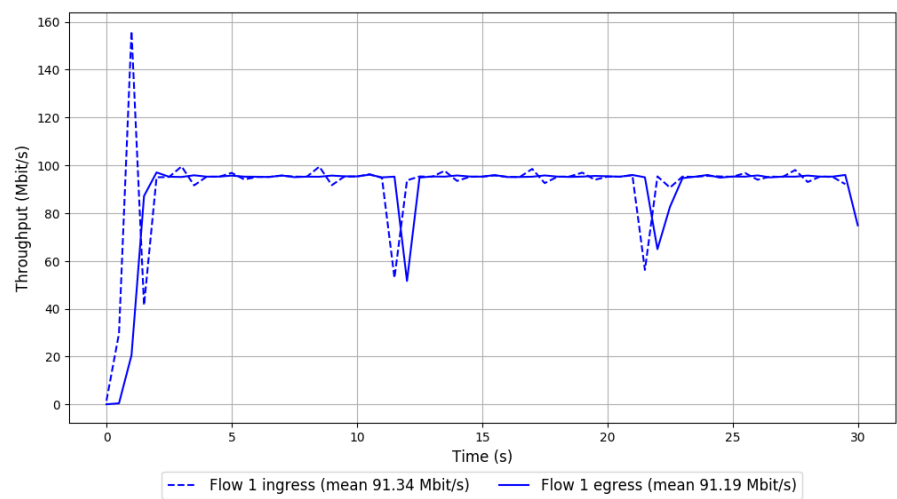
-- Flow 1:

Average throughput: 91.19 Mbit/s

95th percentile per-packet one-way delay: 106.769 ms

Loss rate: 0.73%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-01-25 12:08:16

End at: 2019-01-25 12:08:46

Local clock offset: -3.865 ms

Remote clock offset: 7.695 ms

Below is generated by plot.py at 2019-01-25 12:51:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.01 Mbit/s

95th percentile per-packet one-way delay: 113.724 ms

Loss rate: 0.65%

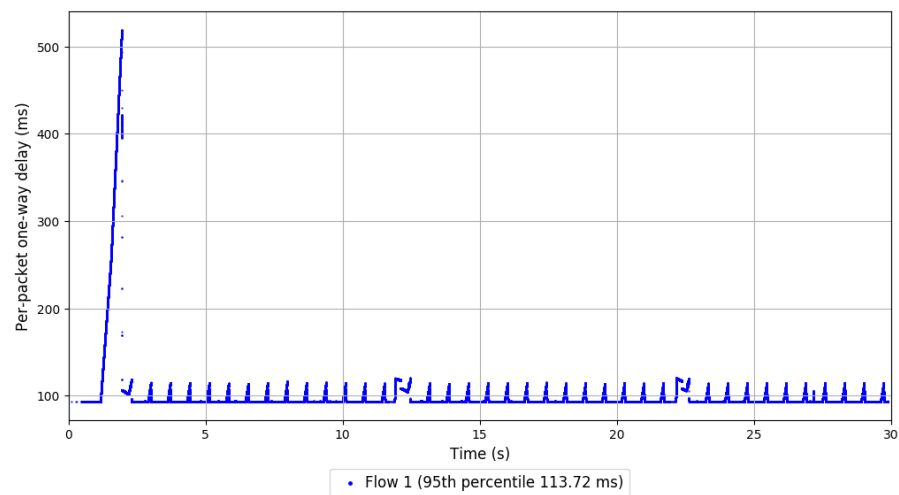
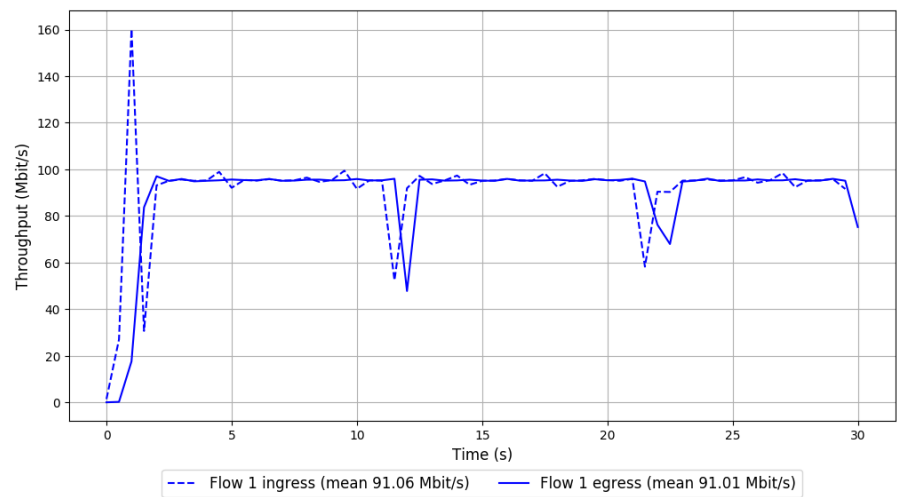
-- Flow 1:

Average throughput: 91.01 Mbit/s

95th percentile per-packet one-way delay: 113.724 ms

Loss rate: 0.65%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-01-25 12:33:16

End at: 2019-01-25 12:33:46

Local clock offset: -2.378 ms

Remote clock offset: 3.257 ms

Below is generated by plot.py at 2019-01-25 12:51:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.21 Mbit/s

95th percentile per-packet one-way delay: 111.009 ms

Loss rate: 0.68%

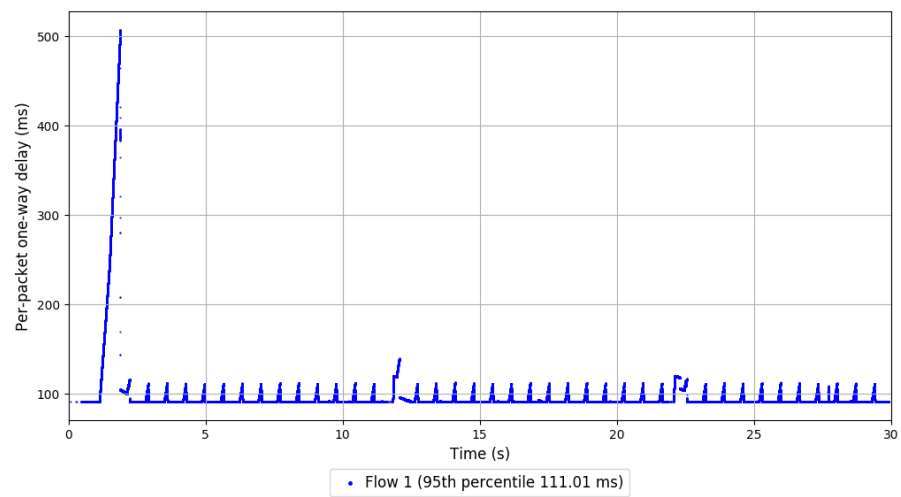
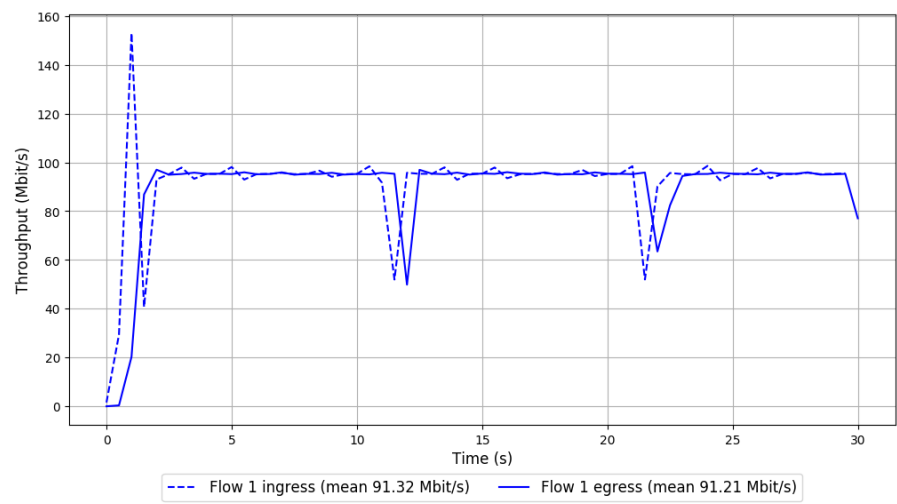
-- Flow 1:

Average throughput: 91.21 Mbit/s

95th percentile per-packet one-way delay: 111.009 ms

Loss rate: 0.68%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-01-25 10:43:57

End at: 2019-01-25 10:44:27

Local clock offset: -3.033 ms

Remote clock offset: 3.162 ms

Below is generated by plot.py at 2019-01-25 12:51:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.67 Mbit/s

95th percentile per-packet one-way delay: 108.445 ms

Loss rate: 0.64%

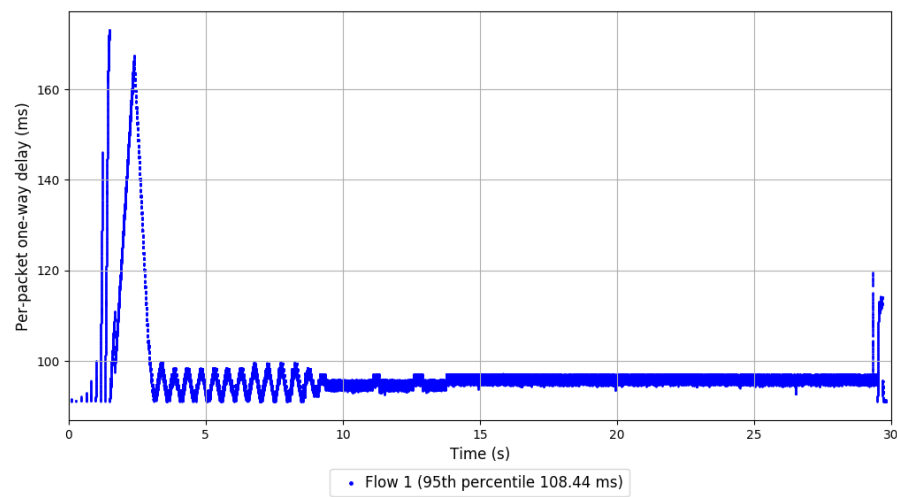
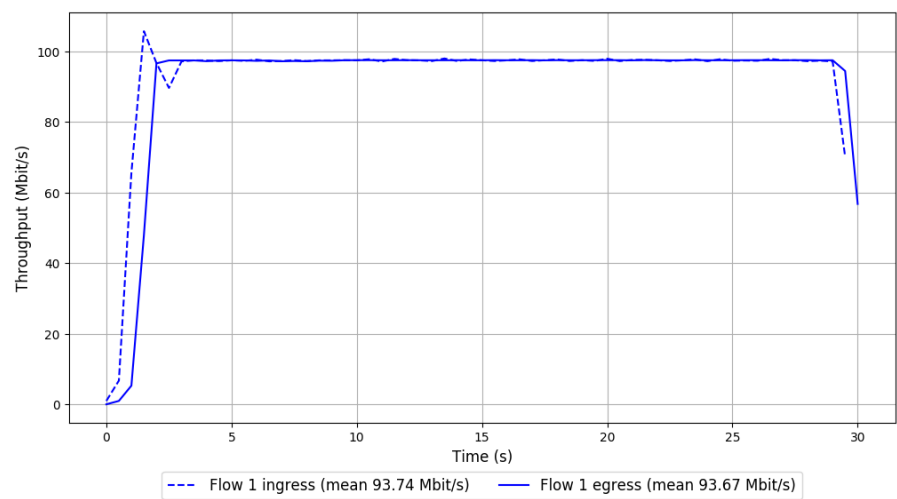
-- Flow 1:

Average throughput: 93.67 Mbit/s

95th percentile per-packet one-way delay: 108.445 ms

Loss rate: 0.64%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-01-25 11:08:55

End at: 2019-01-25 11:09:25

Local clock offset: -2.96 ms

Remote clock offset: 7.954 ms

Below is generated by plot.py at 2019-01-25 12:51:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.77 Mbit/s

95th percentile per-packet one-way delay: 97.211 ms

Loss rate: 1.13%

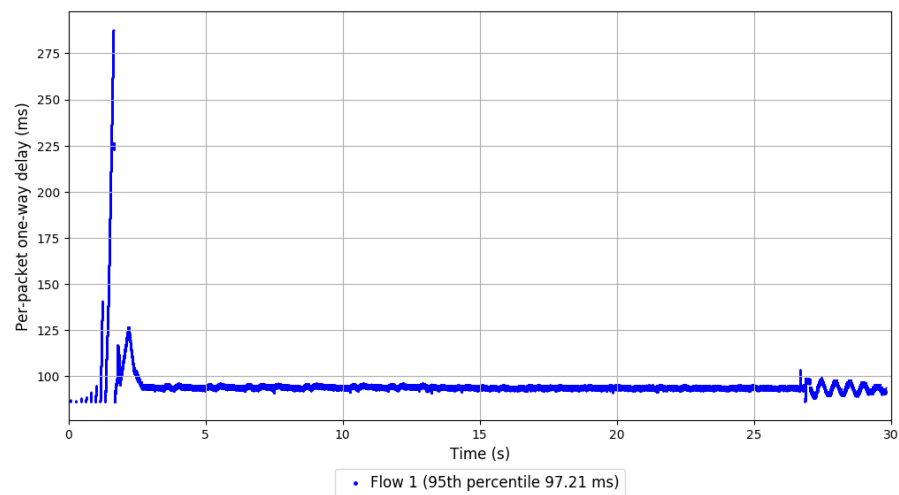
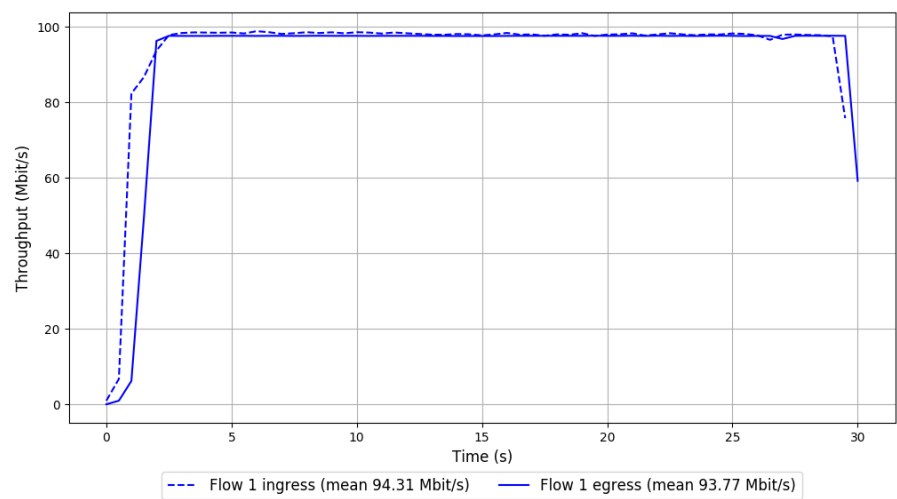
-- Flow 1:

Average throughput: 93.77 Mbit/s

95th percentile per-packet one-way delay: 97.211 ms

Loss rate: 1.13%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-01-25 11:33:54

End at: 2019-01-25 11:34:24

Local clock offset: -4.017 ms

Remote clock offset: 6.122 ms

Below is generated by plot.py at 2019-01-25 12:52:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.82 Mbit/s

95th percentile per-packet one-way delay: 180.291 ms

Loss rate: 4.79%

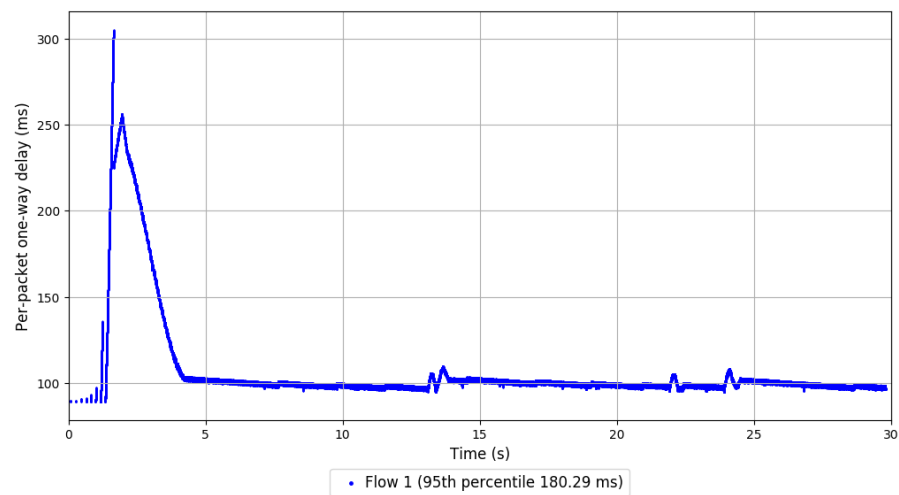
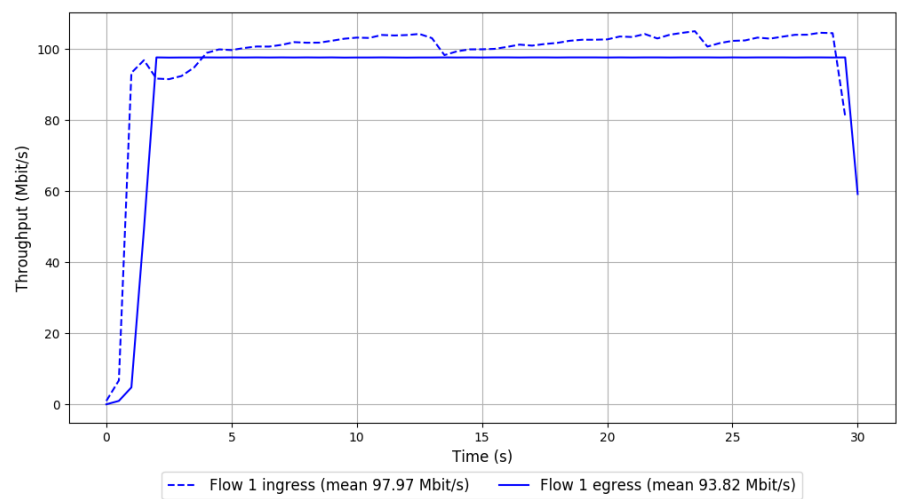
-- Flow 1:

Average throughput: 93.82 Mbit/s

95th percentile per-packet one-way delay: 180.291 ms

Loss rate: 4.79%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-01-25 11:58:53

End at: 2019-01-25 11:59:23

Local clock offset: -8.513 ms

Remote clock offset: 7.055 ms

Below is generated by plot.py at 2019-01-25 12:52:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.78 Mbit/s

95th percentile per-packet one-way delay: 151.325 ms

Loss rate: 1.26%

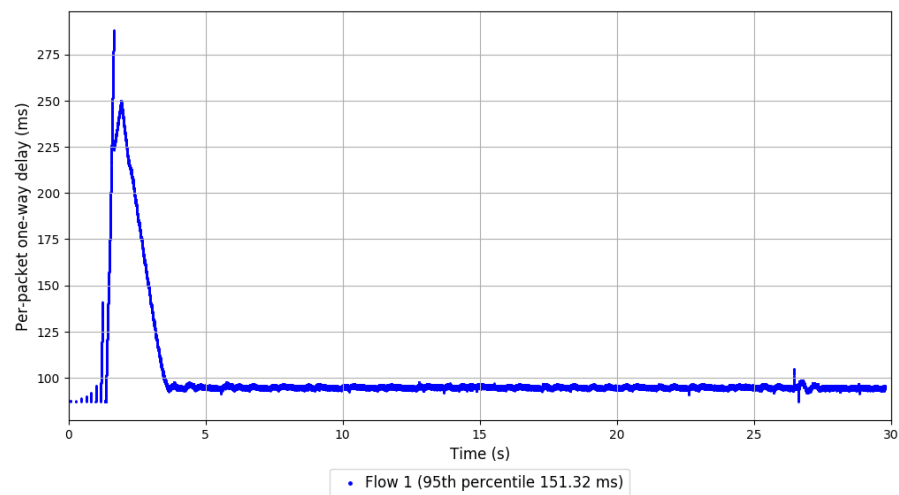
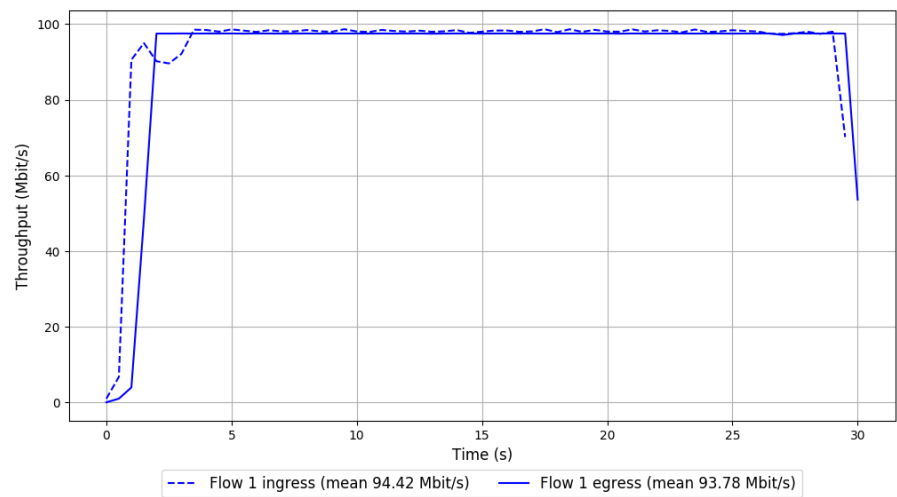
-- Flow 1:

Average throughput: 93.78 Mbit/s

95th percentile per-packet one-way delay: 151.325 ms

Loss rate: 1.26%

Run 4: Report of Indigo — Data Link

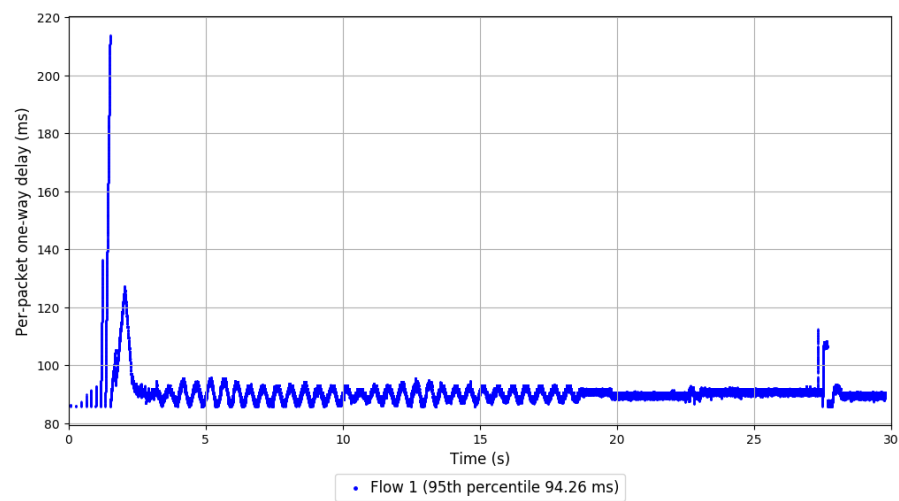
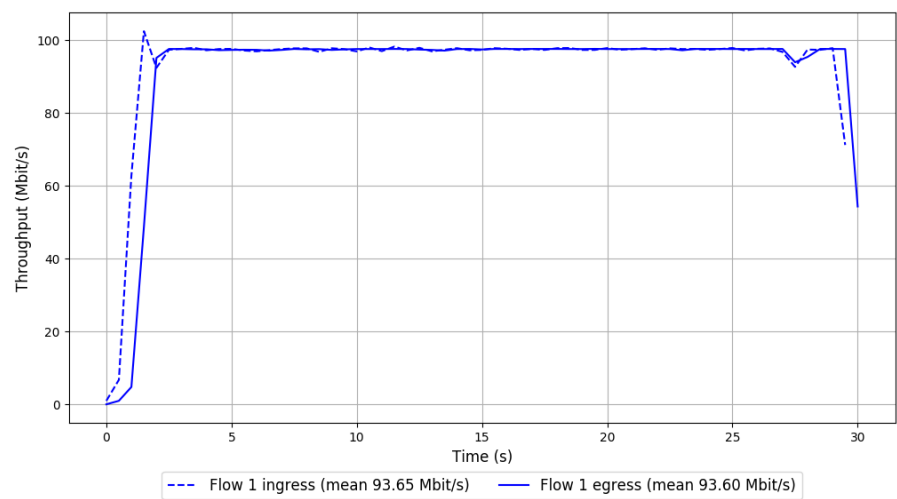


Run 5: Statistics of Indigo

Start at: 2019-01-25 12:23:53
End at: 2019-01-25 12:24:23
Local clock offset: -1.428 ms
Remote clock offset: 9.319 ms

Below is generated by plot.py at 2019-01-25 12:52:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.60 Mbit/s
95th percentile per-packet one-way delay: 94.260 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 93.60 Mbit/s
95th percentile per-packet one-way delay: 94.260 ms
Loss rate: 0.63%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-01-25 11:01:43

End at: 2019-01-25 11:02:13

Local clock offset: -1.801 ms

Remote clock offset: 2.786 ms

Below is generated by plot.py at 2019-01-25 12:52:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.27 Mbit/s

95th percentile per-packet one-way delay: 112.410 ms

Loss rate: 6.89%

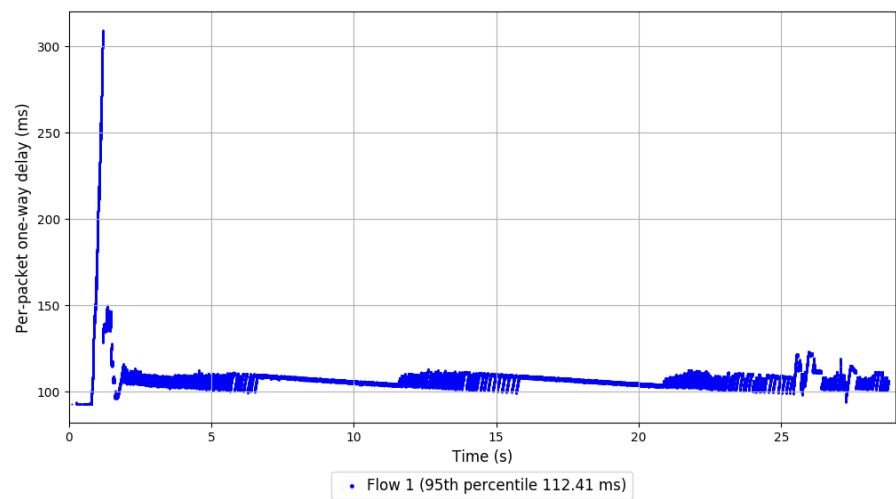
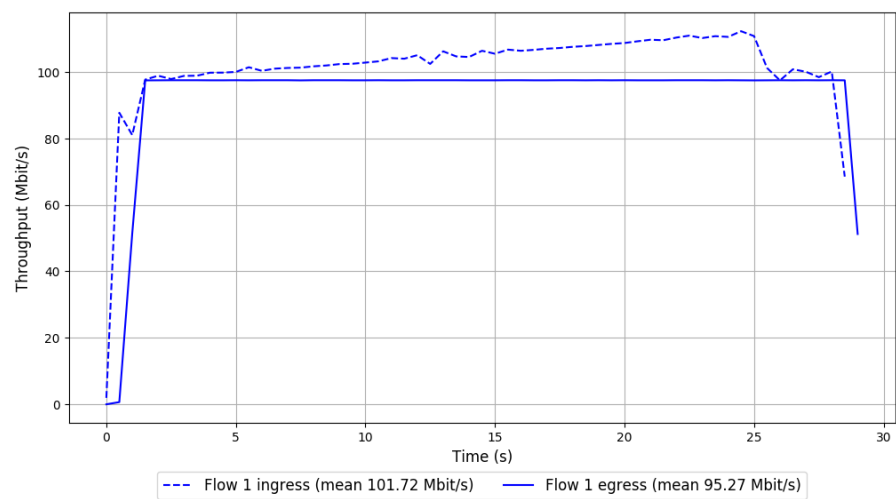
-- Flow 1:

Average throughput: 95.27 Mbit/s

95th percentile per-packet one-way delay: 112.410 ms

Loss rate: 6.89%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-01-25 11:26:42

End at: 2019-01-25 11:27:12

Local clock offset: -2.959 ms

Remote clock offset: 4.312 ms

Below is generated by plot.py at 2019-01-25 12:52:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.17 Mbit/s

95th percentile per-packet one-way delay: 110.710 ms

Loss rate: 6.72%

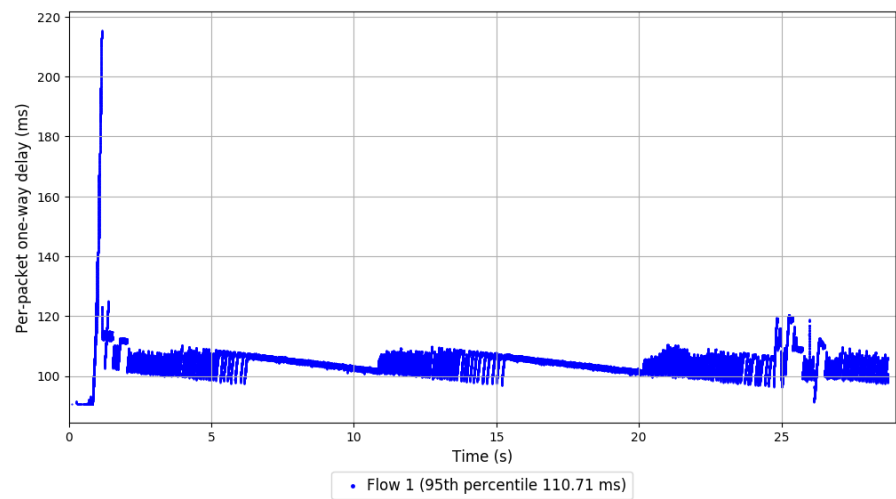
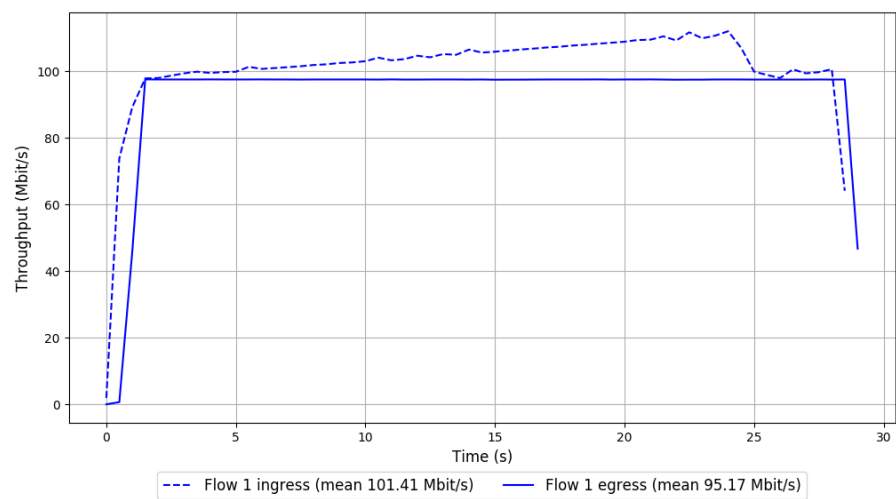
-- Flow 1:

Average throughput: 95.17 Mbit/s

95th percentile per-packet one-way delay: 110.710 ms

Loss rate: 6.72%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-01-25 11:51:40

End at: 2019-01-25 11:52:10

Local clock offset: -7.262 ms

Remote clock offset: 7.864 ms

Below is generated by plot.py at 2019-01-25 12:52:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.15 Mbit/s

95th percentile per-packet one-way delay: 105.575 ms

Loss rate: 7.17%

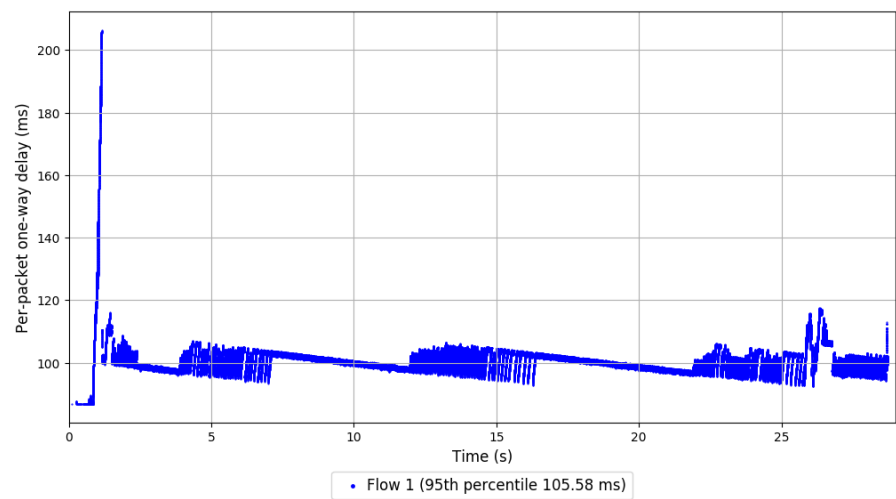
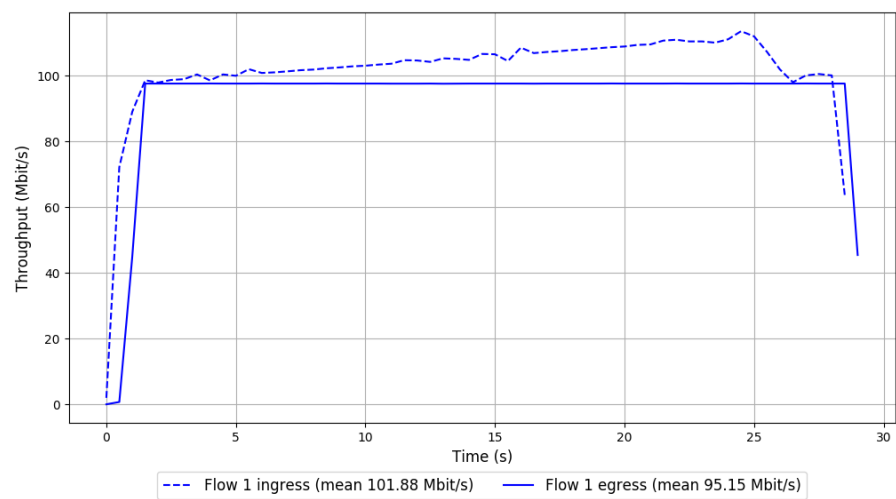
-- Flow 1:

Average throughput: 95.15 Mbit/s

95th percentile per-packet one-way delay: 105.575 ms

Loss rate: 7.17%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-01-25 12:16:41

End at: 2019-01-25 12:17:11

Local clock offset: -2.175 ms

Remote clock offset: 3.104 ms

Below is generated by plot.py at 2019-01-25 12:52:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.08 Mbit/s

95th percentile per-packet one-way delay: 110.006 ms

Loss rate: 6.18%

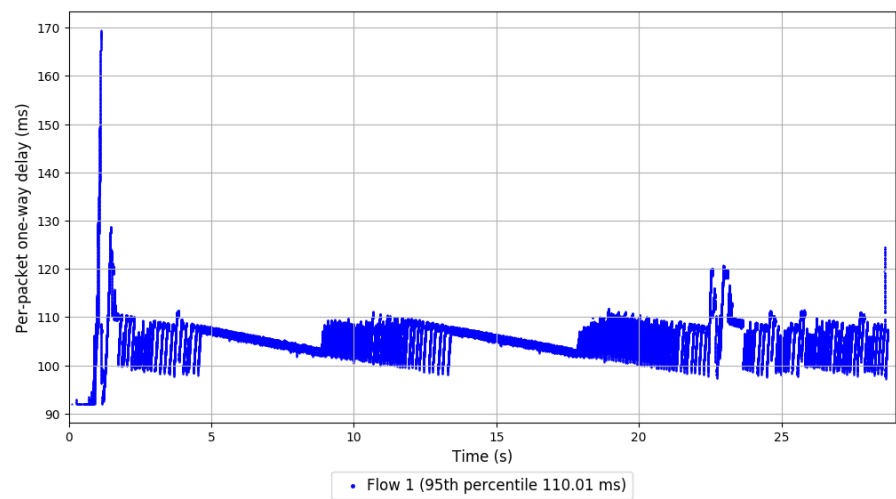
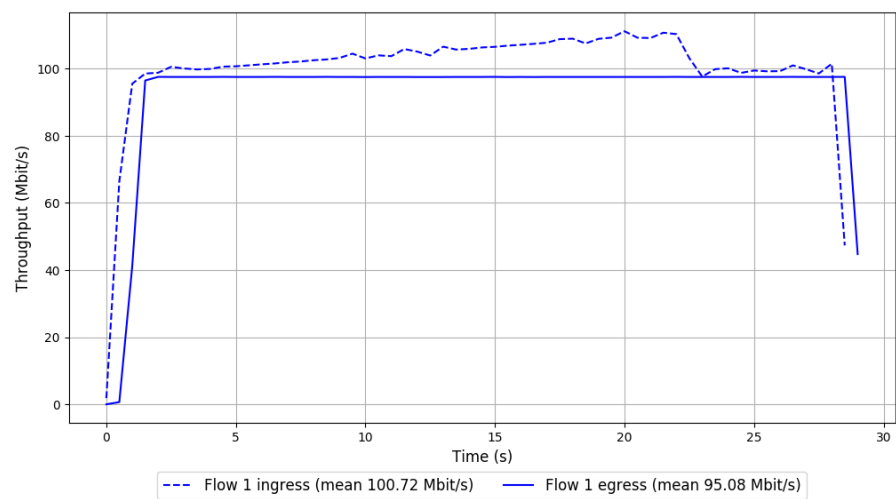
-- Flow 1:

Average throughput: 95.08 Mbit/s

95th percentile per-packet one-way delay: 110.006 ms

Loss rate: 6.18%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-01-25 12:41:40

End at: 2019-01-25 12:42:10

Local clock offset: -3.017 ms

Remote clock offset: 4.458 ms

Below is generated by plot.py at 2019-01-25 12:53:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.15 Mbit/s

95th percentile per-packet one-way delay: 119.405 ms

Loss rate: 6.34%

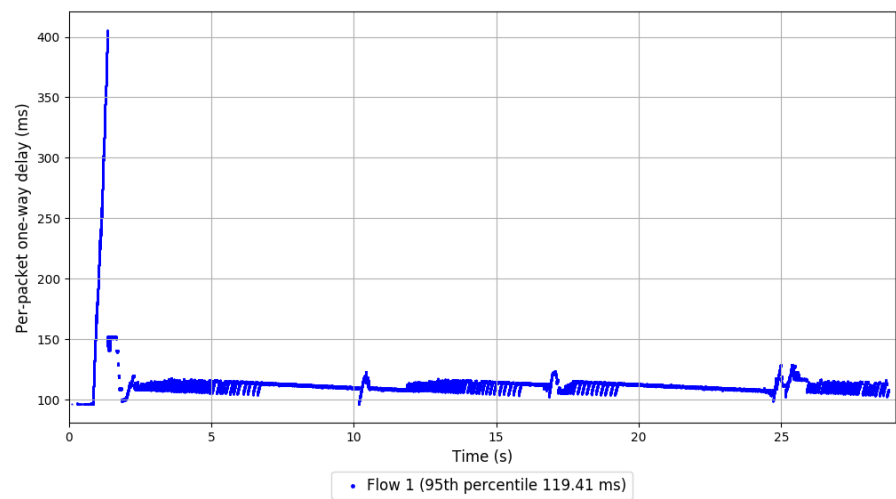
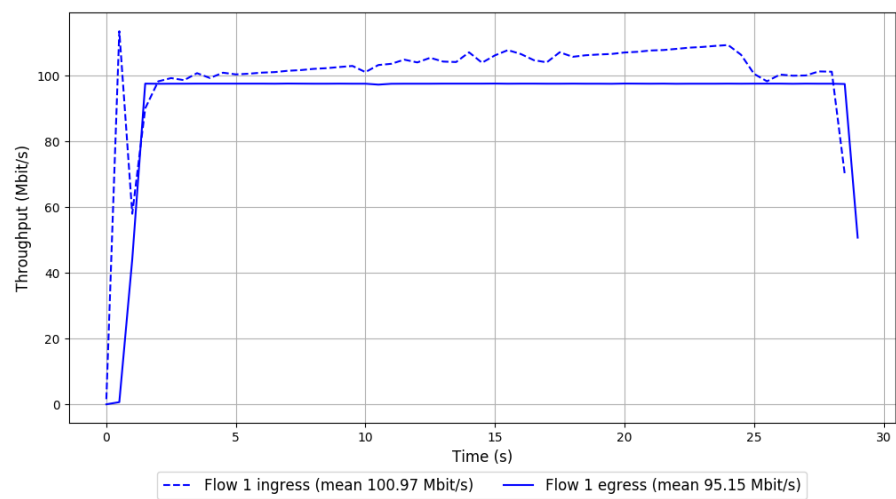
-- Flow 1:

Average throughput: 95.15 Mbit/s

95th percentile per-packet one-way delay: 119.405 ms

Loss rate: 6.34%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-01-25 11:05:19

End at: 2019-01-25 11:05:49

Local clock offset: -2.89 ms

Remote clock offset: 7.733 ms

Below is generated by plot.py at 2019-01-25 12:53:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.37 Mbit/s

95th percentile per-packet one-way delay: 94.056 ms

Loss rate: 0.65%

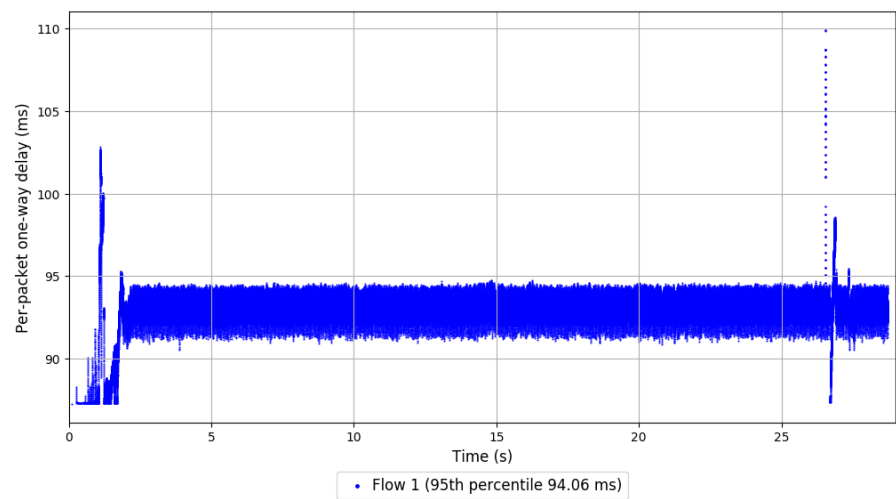
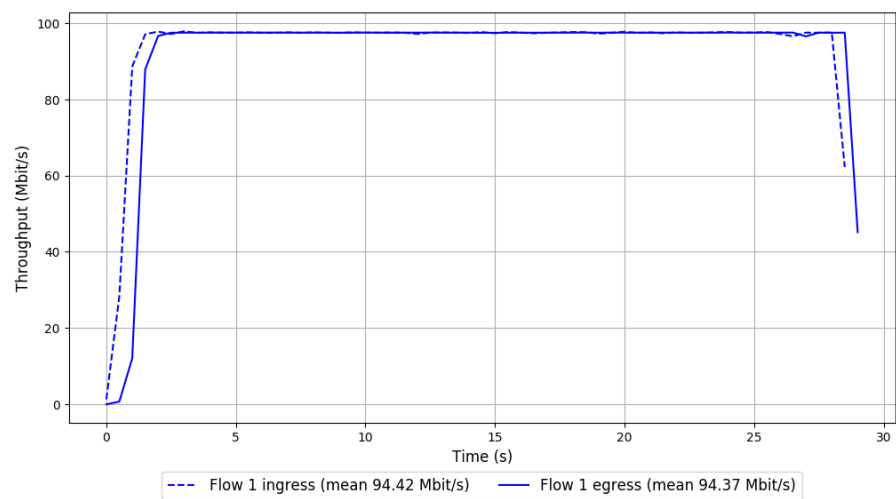
-- Flow 1:

Average throughput: 94.37 Mbit/s

95th percentile per-packet one-way delay: 94.056 ms

Loss rate: 0.65%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-01-25 11:30:17

End at: 2019-01-25 11:30:47

Local clock offset: -3.159 ms

Remote clock offset: 7.507 ms

Below is generated by plot.py at 2019-01-25 12:53:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.09 Mbit/s

95th percentile per-packet one-way delay: 105.465 ms

Loss rate: 6.40%

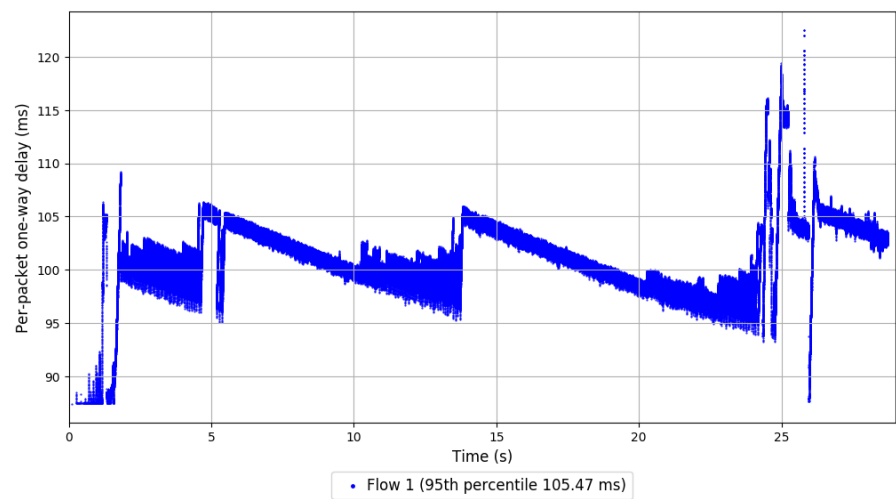
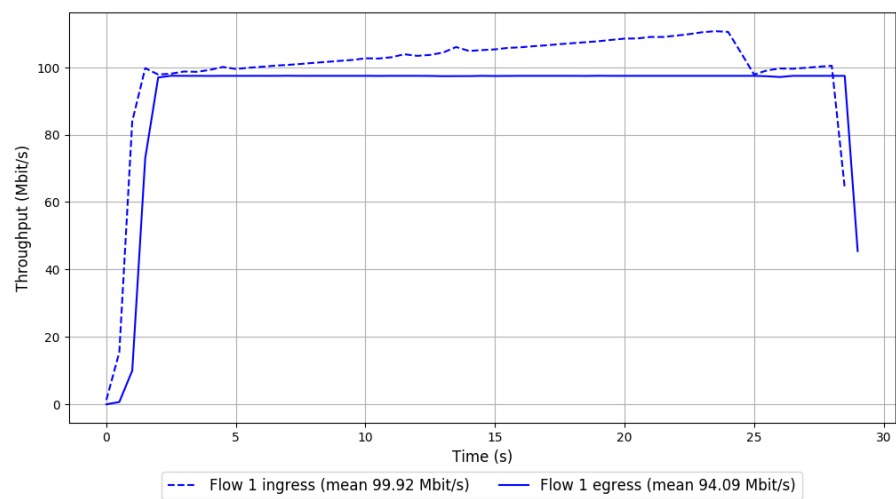
-- Flow 1:

Average throughput: 94.09 Mbit/s

95th percentile per-packet one-way delay: 105.465 ms

Loss rate: 6.40%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-01-25 11:55:16

End at: 2019-01-25 11:55:46

Local clock offset: -7.525 ms

Remote clock offset: 1.877 ms

Below is generated by plot.py at 2019-01-25 12:53:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.26 Mbit/s

95th percentile per-packet one-way delay: 115.802 ms

Loss rate: 8.22%

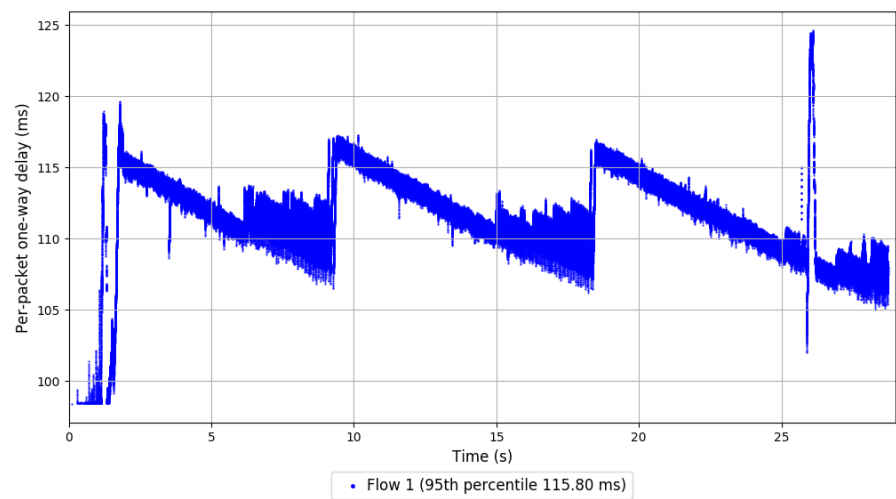
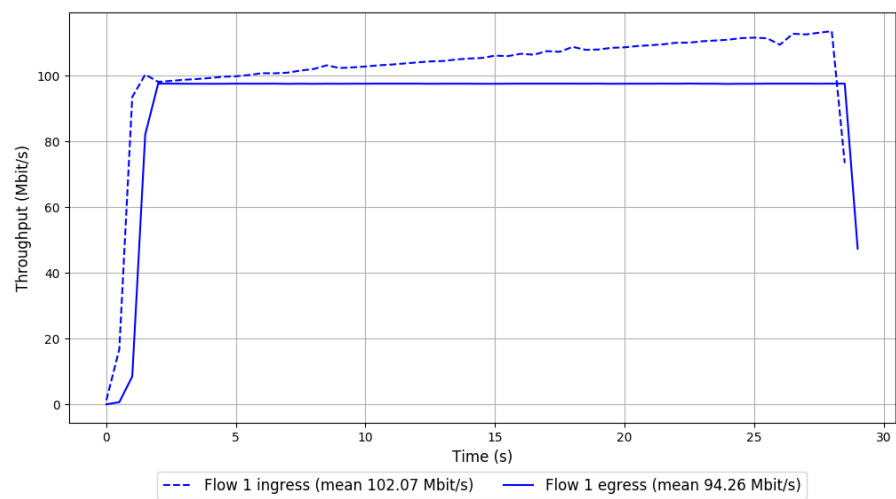
-- Flow 1:

Average throughput: 94.26 Mbit/s

95th percentile per-packet one-way delay: 115.802 ms

Loss rate: 8.22%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-01-25 12:20:16

End at: 2019-01-25 12:20:46

Local clock offset: -2.447 ms

Remote clock offset: 4.227 ms

Below is generated by plot.py at 2019-01-25 12:53:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.45 Mbit/s

95th percentile per-packet one-way delay: 101.753 ms

Loss rate: 2.42%

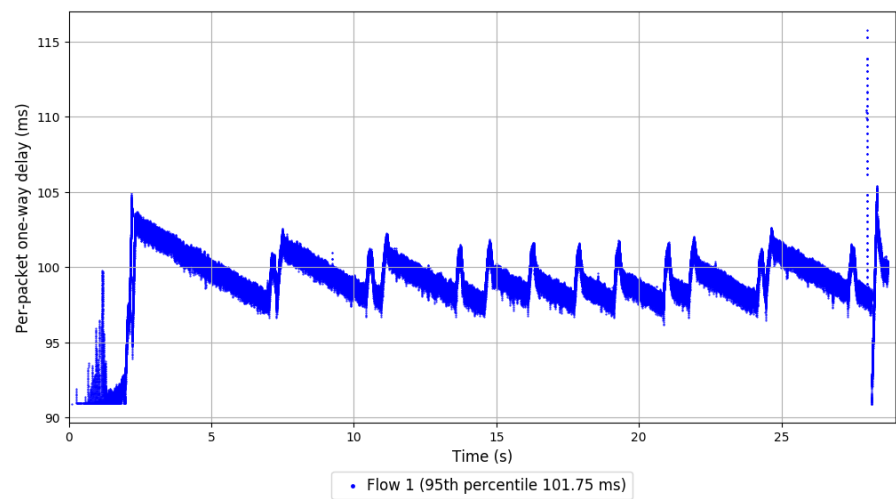
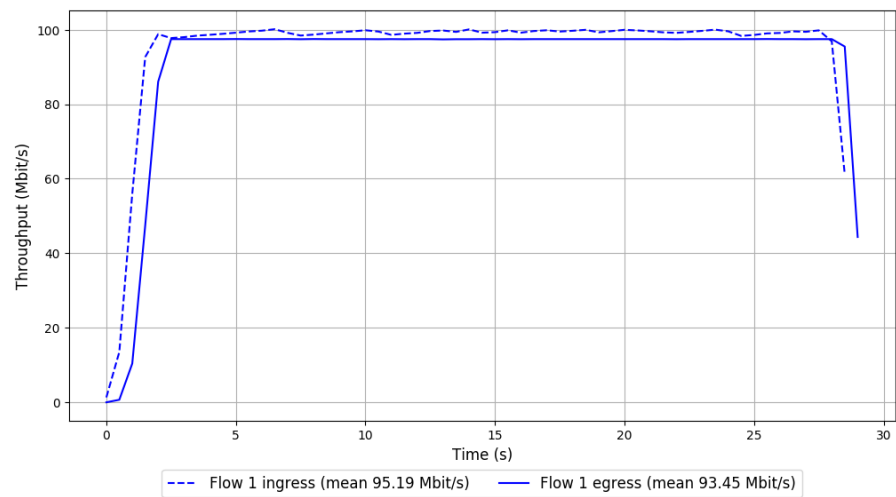
-- Flow 1:

Average throughput: 93.45 Mbit/s

95th percentile per-packet one-way delay: 101.753 ms

Loss rate: 2.42%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-01-25 12:45:16

End at: 2019-01-25 12:45:46

Local clock offset: -2.375 ms

Remote clock offset: 4.328 ms

Below is generated by plot.py at 2019-01-25 12:53:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.29 Mbit/s

95th percentile per-packet one-way delay: 100.912 ms

Loss rate: 1.75%

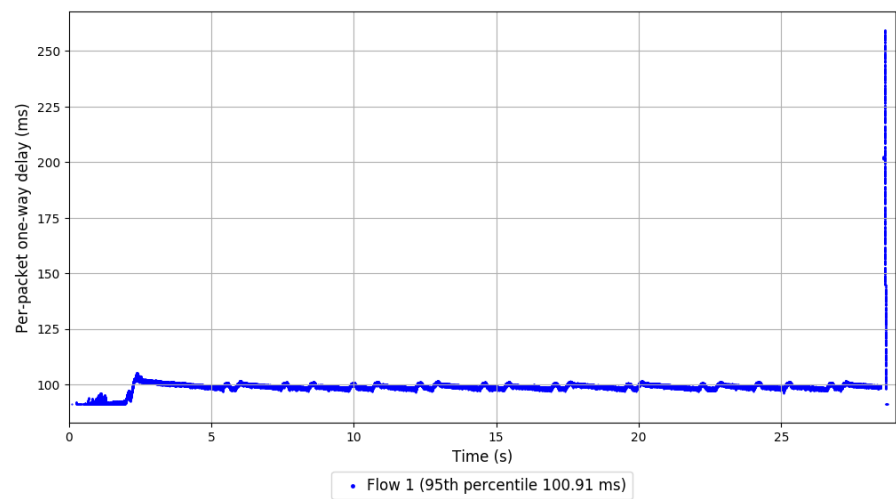
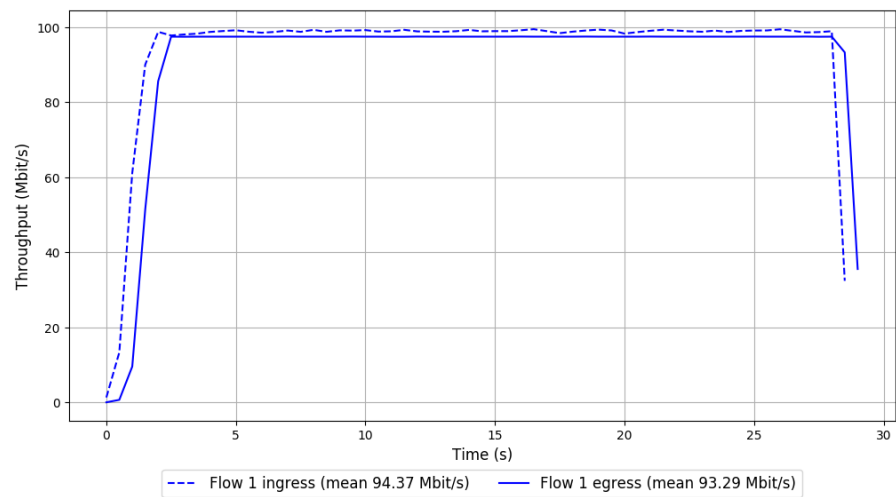
-- Flow 1:

Average throughput: 93.29 Mbit/s

95th percentile per-packet one-way delay: 100.912 ms

Loss rate: 1.75%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-01-25 10:59:16

End at: 2019-01-25 10:59:46

Local clock offset: -1.624 ms

Remote clock offset: 6.411 ms

Below is generated by plot.py at 2019-01-25 12:53:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.19 Mbit/s

95th percentile per-packet one-way delay: 114.271 ms

Loss rate: 6.23%

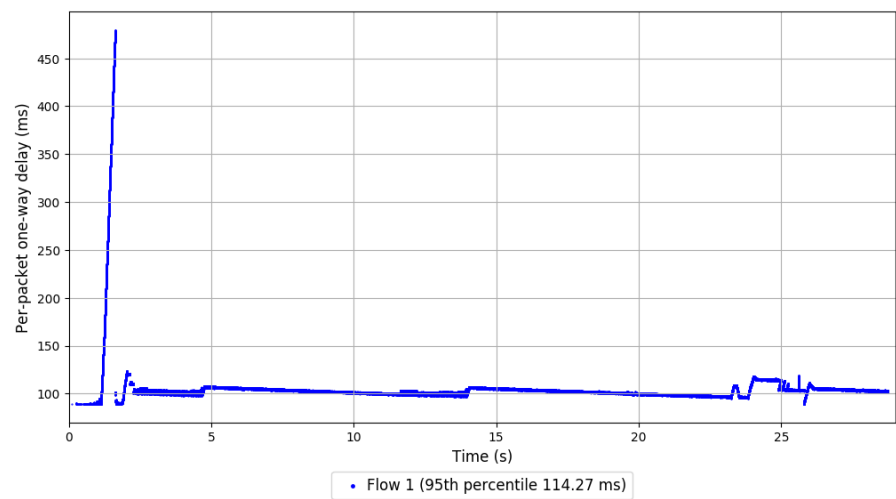
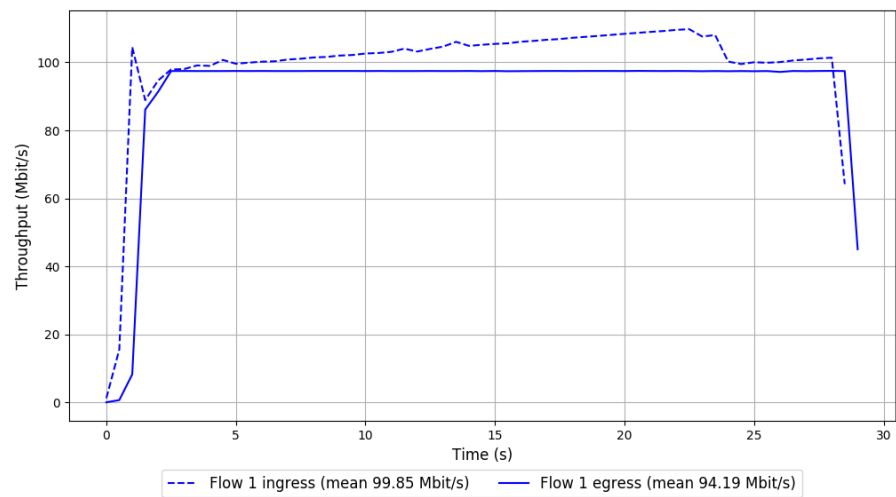
-- Flow 1:

Average throughput: 94.19 Mbit/s

95th percentile per-packet one-way delay: 114.271 ms

Loss rate: 6.23%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-01-25 11:24:15

End at: 2019-01-25 11:24:45

Local clock offset: -2.165 ms

Remote clock offset: 8.358 ms

Below is generated by plot.py at 2019-01-25 12:53:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.18 Mbit/s

95th percentile per-packet one-way delay: 106.740 ms

Loss rate: 5.06%

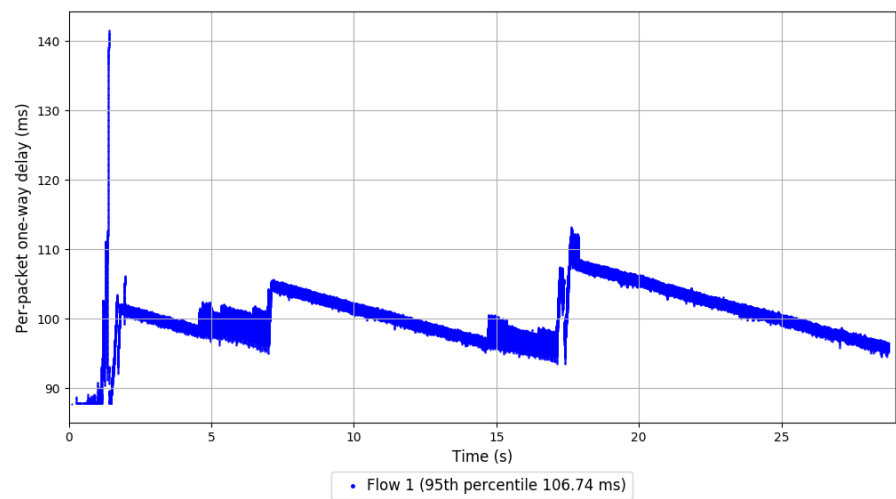
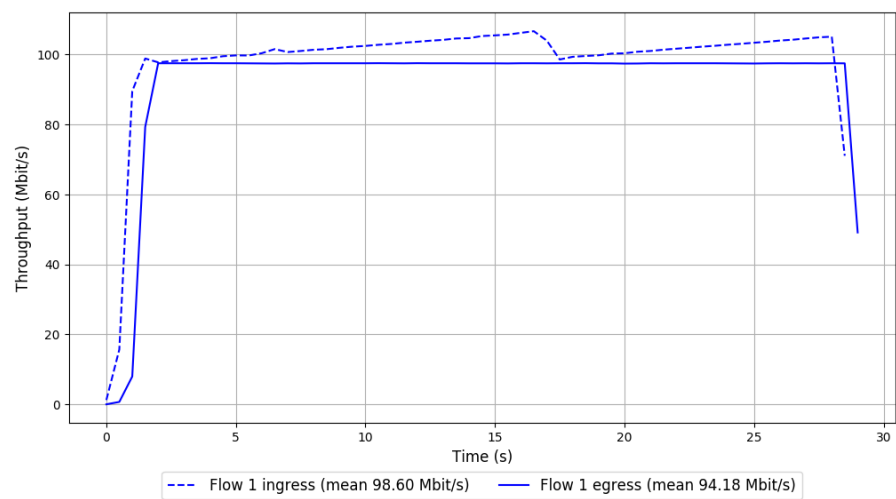
-- Flow 1:

Average throughput: 94.18 Mbit/s

95th percentile per-packet one-way delay: 106.740 ms

Loss rate: 5.06%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-01-25 11:49:13

End at: 2019-01-25 11:49:43

Local clock offset: -7.862 ms

Remote clock offset: 5.66 ms

Below is generated by plot.py at 2019-01-25 12:54:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.14 Mbit/s

95th percentile per-packet one-way delay: 106.151 ms

Loss rate: 6.05%

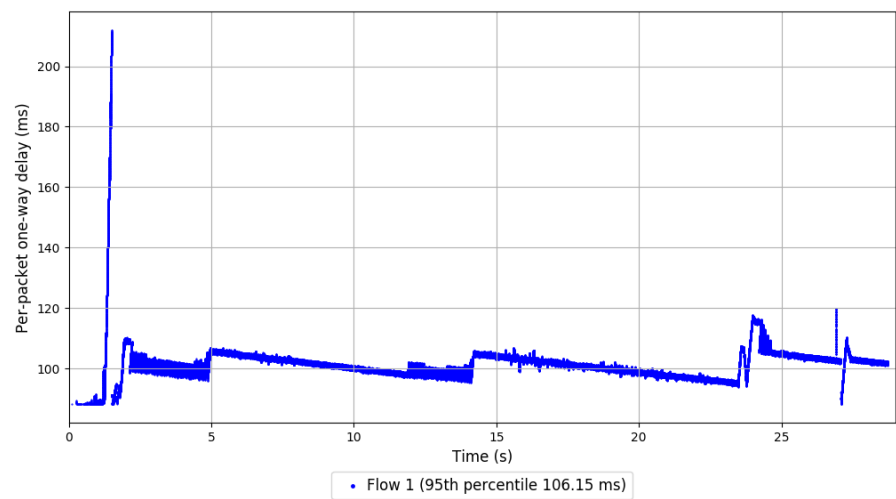
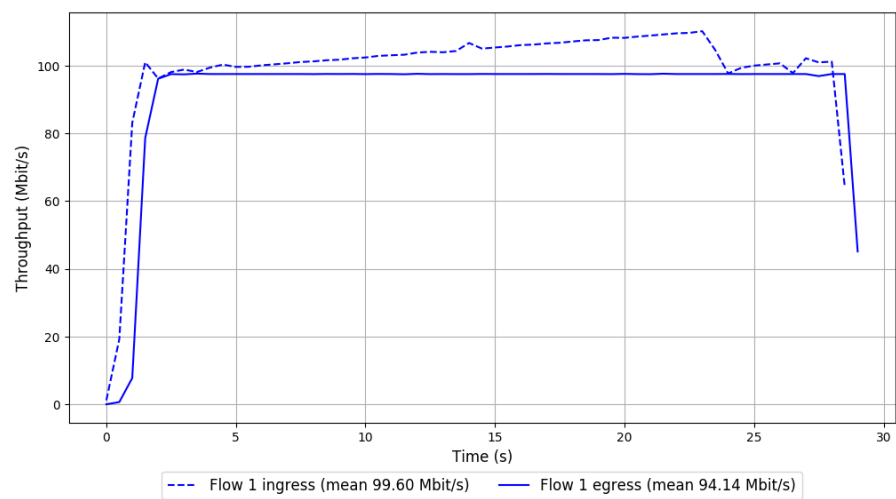
-- Flow 1:

Average throughput: 94.14 Mbit/s

95th percentile per-packet one-way delay: 106.151 ms

Loss rate: 6.05%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-01-25 12:14:14

End at: 2019-01-25 12:14:44

Local clock offset: -2.476 ms

Remote clock offset: 7.947 ms

Below is generated by plot.py at 2019-01-25 12:54:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.00 Mbit/s

95th percentile per-packet one-way delay: 108.484 ms

Loss rate: 4.76%

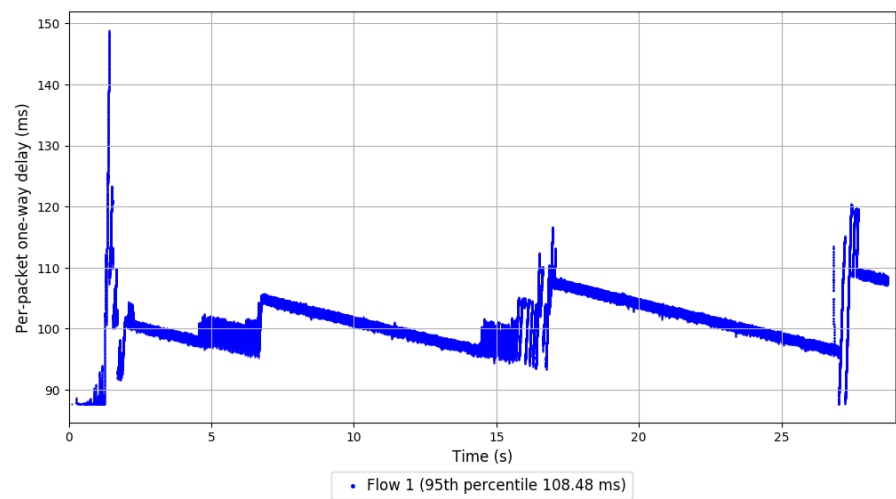
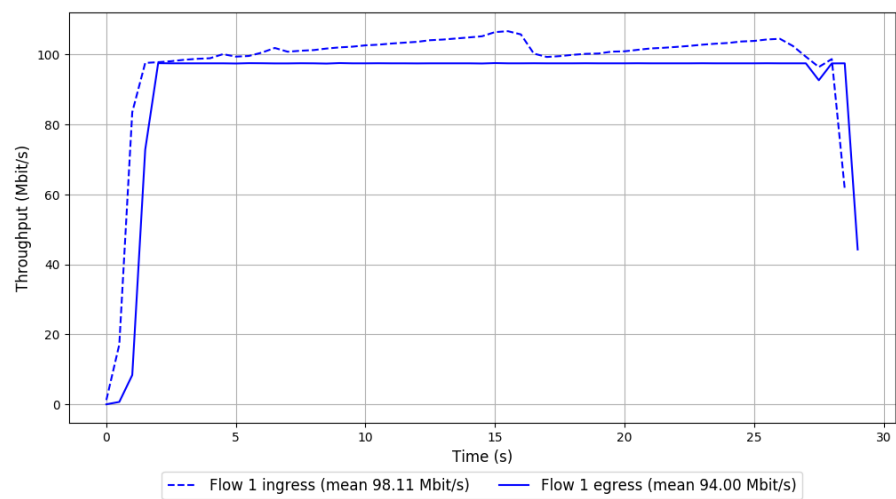
-- Flow 1:

Average throughput: 94.00 Mbit/s

95th percentile per-packet one-way delay: 108.484 ms

Loss rate: 4.76%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-01-25 12:39:14

End at: 2019-01-25 12:39:44

Local clock offset: -2.9 ms

Remote clock offset: 7.099 ms

Below is generated by plot.py at 2019-01-25 12:54:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.15 Mbit/s

95th percentile per-packet one-way delay: 111.365 ms

Loss rate: 6.37%

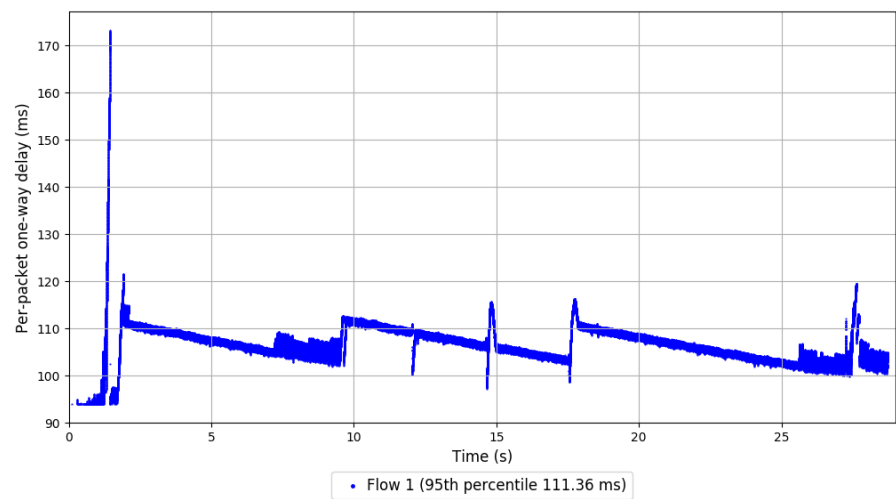
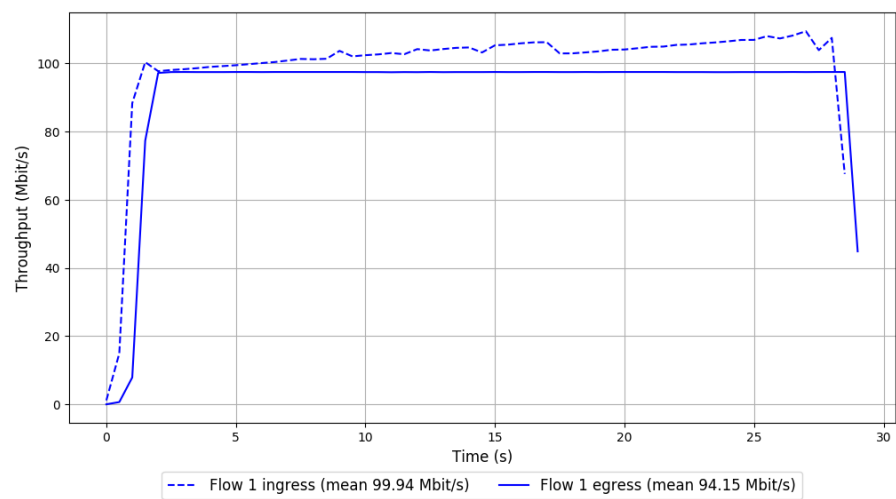
-- Flow 1:

Average throughput: 94.15 Mbit/s

95th percentile per-packet one-way delay: 111.365 ms

Loss rate: 6.37%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-01-25 10:55:43

End at: 2019-01-25 10:56:13

Local clock offset: -2.627 ms

Remote clock offset: 2.522 ms

Below is generated by plot.py at 2019-01-25 12:54:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.01 Mbit/s

95th percentile per-packet one-way delay: 117.795 ms

Loss rate: 7.93%

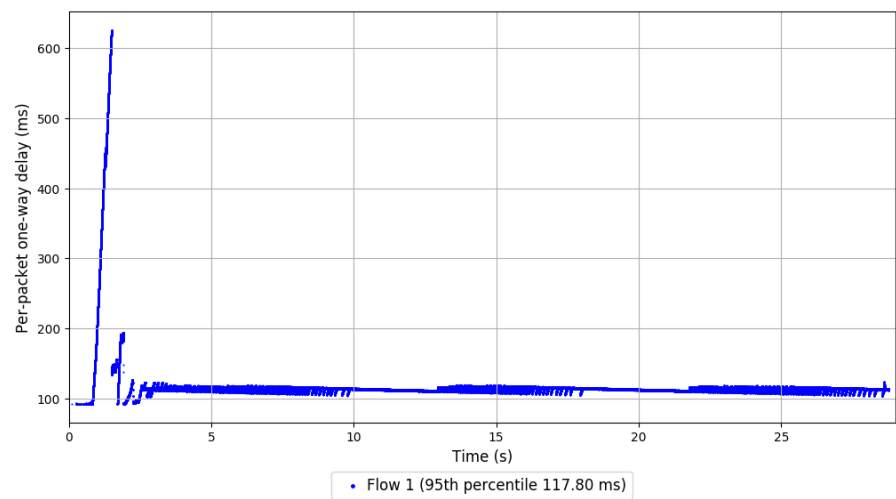
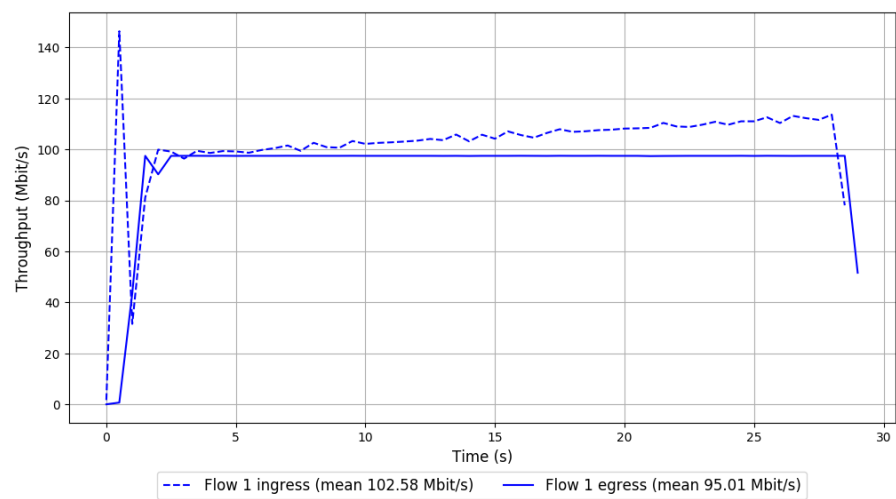
-- Flow 1:

Average throughput: 95.01 Mbit/s

95th percentile per-packet one-way delay: 117.795 ms

Loss rate: 7.93%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-01-25 11:20:41

End at: 2019-01-25 11:21:11

Local clock offset: -2.983 ms

Remote clock offset: 8.372 ms

Below is generated by plot.py at 2019-01-25 12:54:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.90 Mbit/s

95th percentile per-packet one-way delay: 112.714 ms

Loss rate: 7.98%

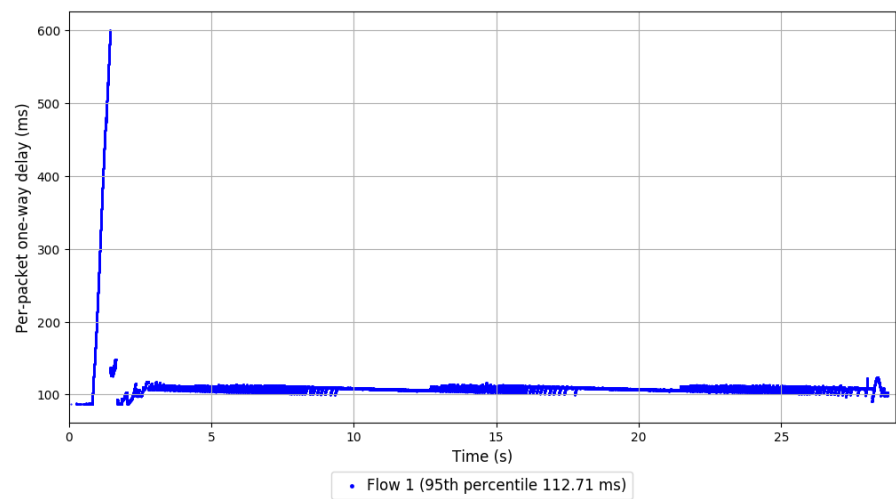
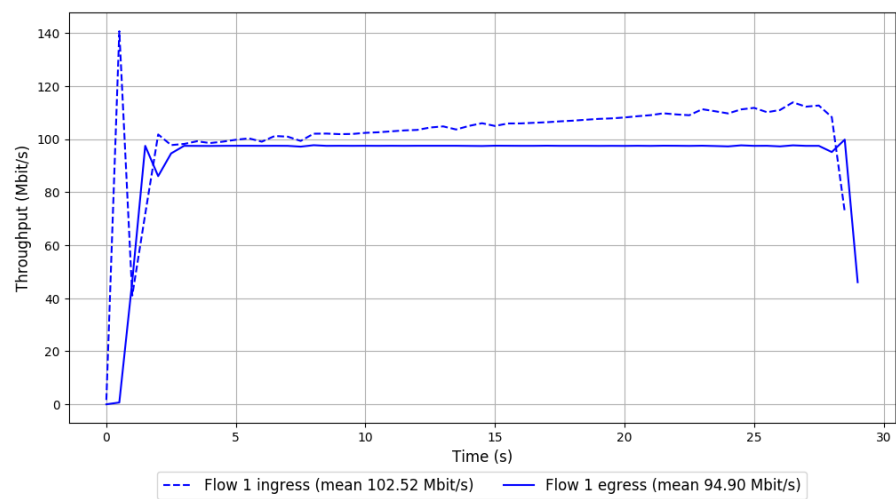
-- Flow 1:

Average throughput: 94.90 Mbit/s

95th percentile per-packet one-way delay: 112.714 ms

Loss rate: 7.98%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-01-25 11:45:39

End at: 2019-01-25 11:46:09

Local clock offset: -6.615 ms

Remote clock offset: 1.855 ms

Below is generated by plot.py at 2019-01-25 12:55:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.00 Mbit/s

95th percentile per-packet one-way delay: 118.697 ms

Loss rate: 7.84%

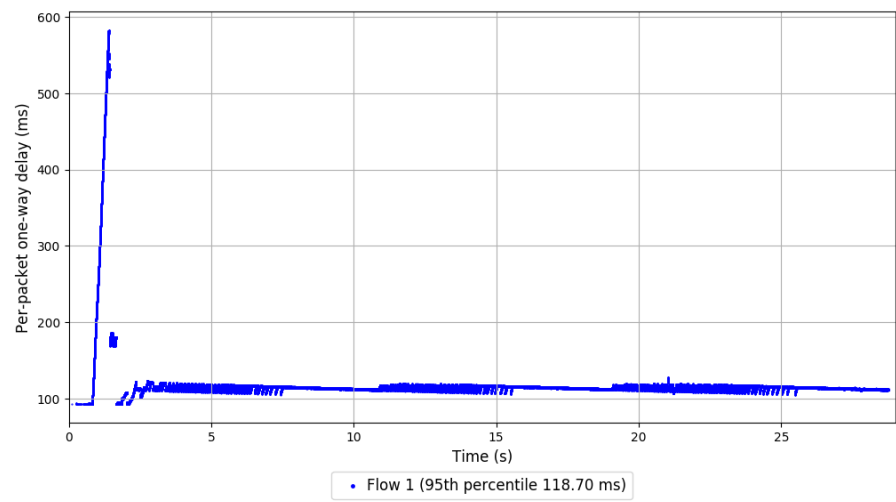
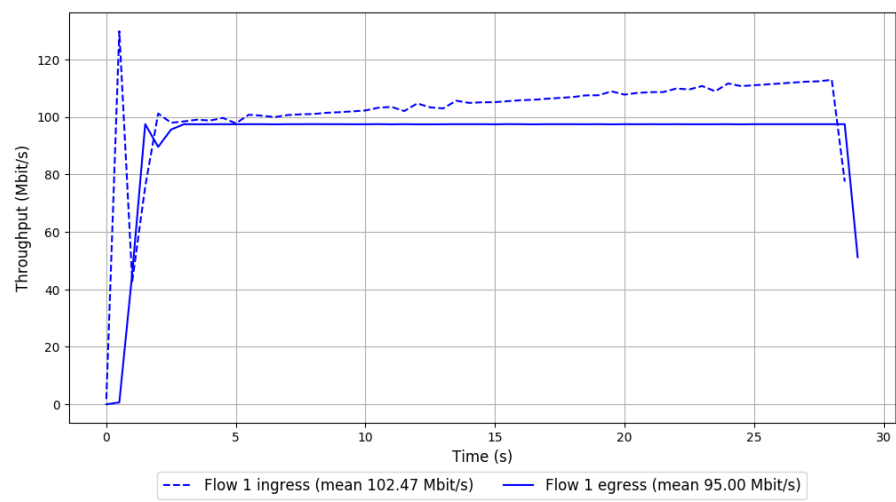
-- Flow 1:

Average throughput: 95.00 Mbit/s

95th percentile per-packet one-way delay: 118.697 ms

Loss rate: 7.84%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-01-25 12:10:39

End at: 2019-01-25 12:11:09

Local clock offset: -3.909 ms

Remote clock offset: 2.918 ms

Below is generated by plot.py at 2019-01-25 12:55:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.85 Mbit/s

95th percentile per-packet one-way delay: 131.245 ms

Loss rate: 7.21%

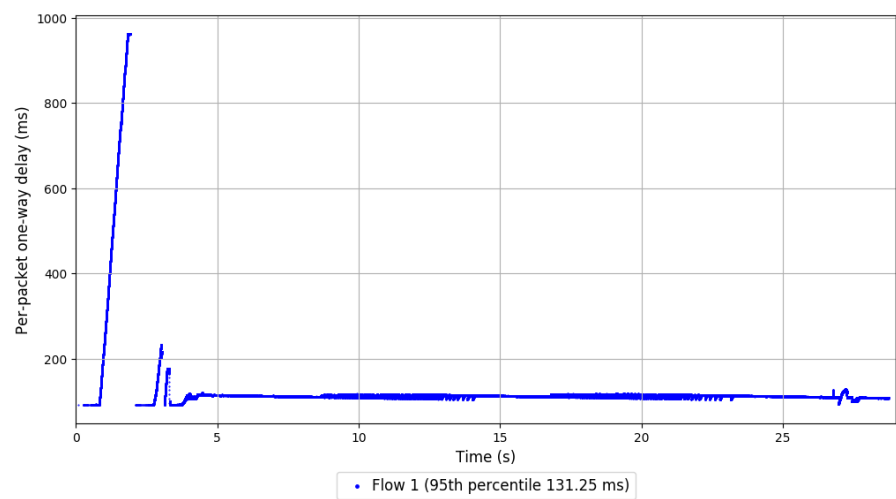
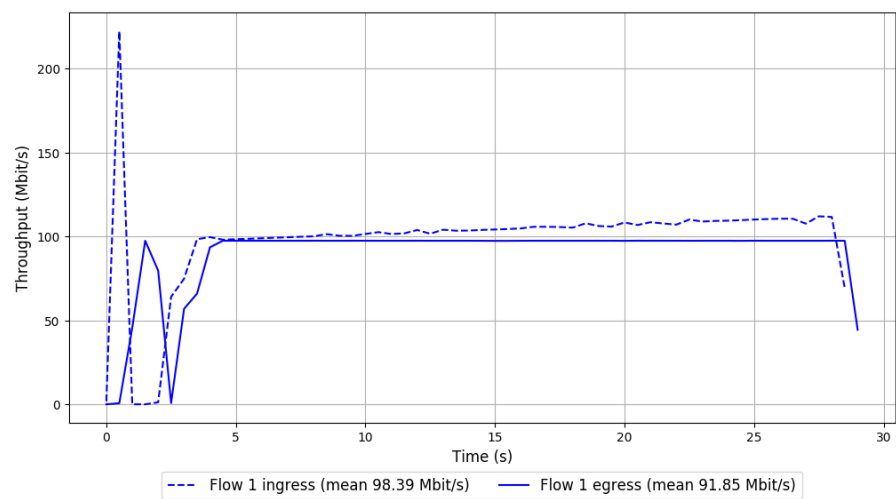
-- Flow 1:

Average throughput: 91.85 Mbit/s

95th percentile per-packet one-way delay: 131.245 ms

Loss rate: 7.21%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-01-25 12:35:38

End at: 2019-01-25 12:36:08

Local clock offset: -1.879 ms

Remote clock offset: 3.104 ms

Below is generated by plot.py at 2019-01-25 12:55:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.12 Mbit/s

95th percentile per-packet one-way delay: 117.436 ms

Loss rate: 8.25%

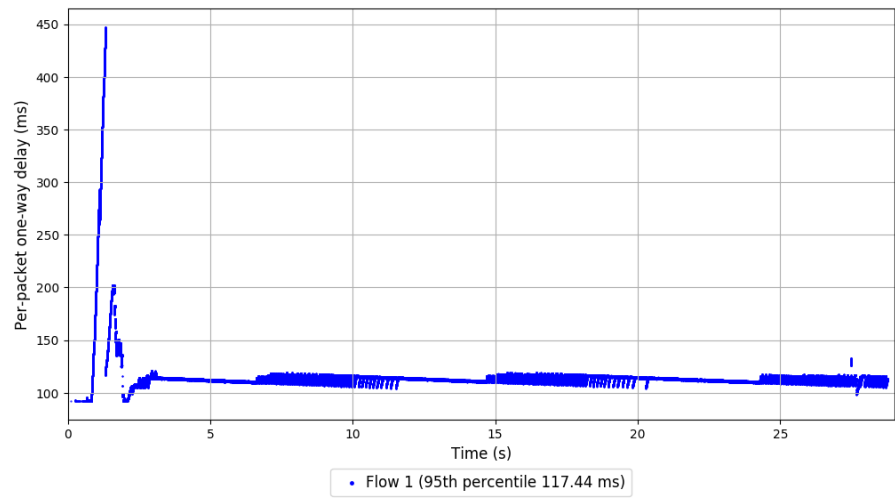
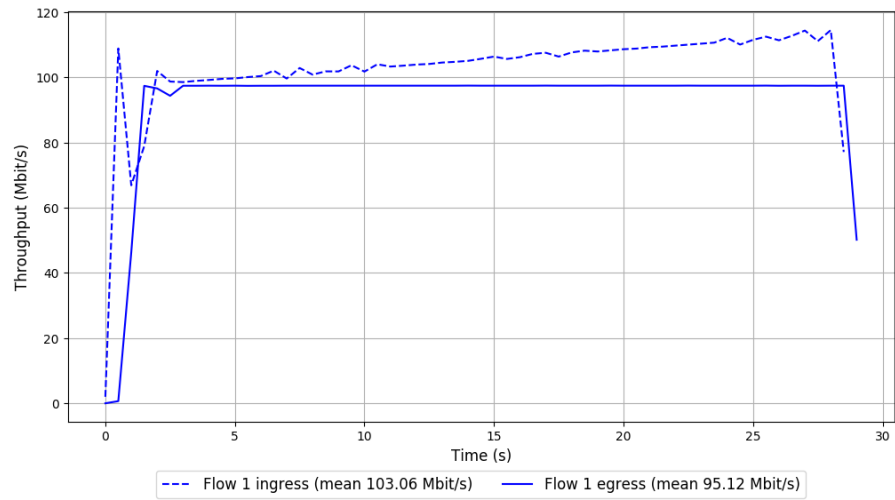
-- Flow 1:

Average throughput: 95.12 Mbit/s

95th percentile per-packet one-way delay: 117.436 ms

Loss rate: 8.25%

Run 5: Report of Indigo-MusesT — Data Link

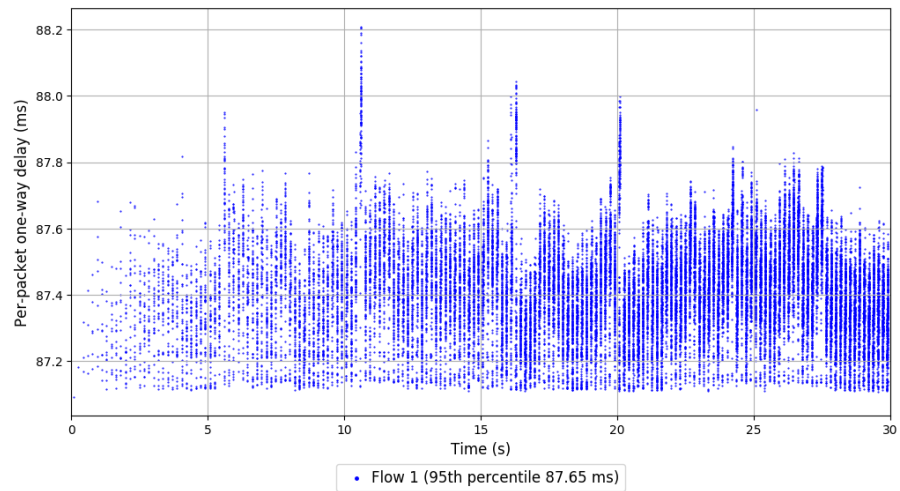
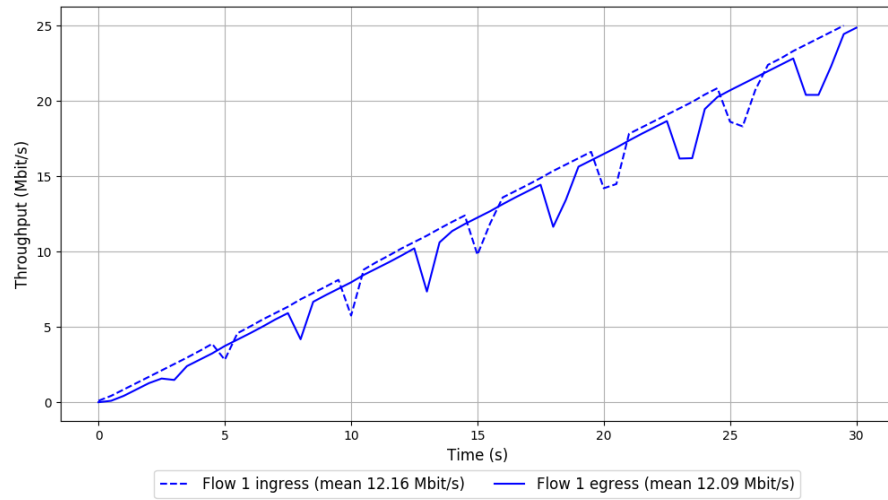


```
Run 1: Statistics of LEDBAT

Start at: 2019-01-25 10:51:03
End at: 2019-01-25 10:51:33
Local clock offset: -3.02 ms
Remote clock offset: 7.041 ms

# Below is generated by plot.py at 2019-01-25 12:55:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.09 Mbit/s
95th percentile per-packet one-way delay: 87.652 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 12.09 Mbit/s
95th percentile per-packet one-way delay: 87.652 ms
Loss rate: 1.15%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-01-25 11:16:01

End at: 2019-01-25 11:16:31

Local clock offset: -3.024 ms

Remote clock offset: 3.066 ms

Below is generated by plot.py at 2019-01-25 12:55:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.82 Mbit/s

95th percentile per-packet one-way delay: 92.167 ms

Loss rate: 1.16%

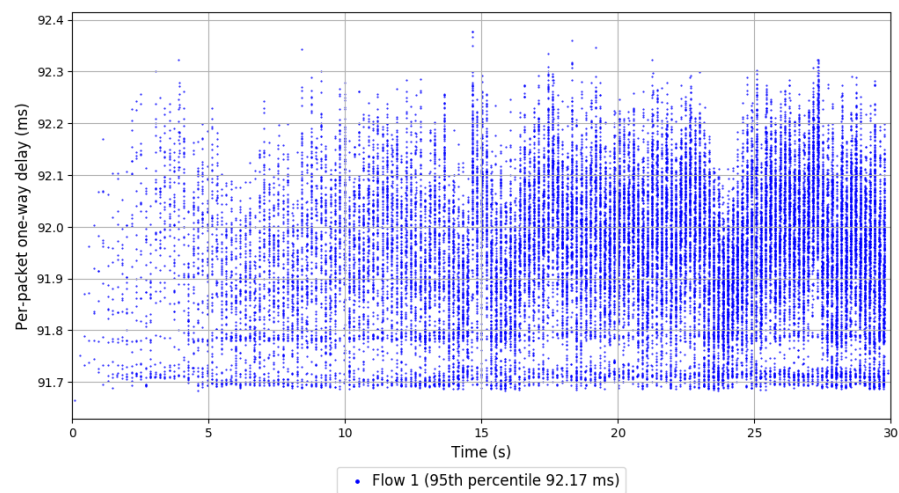
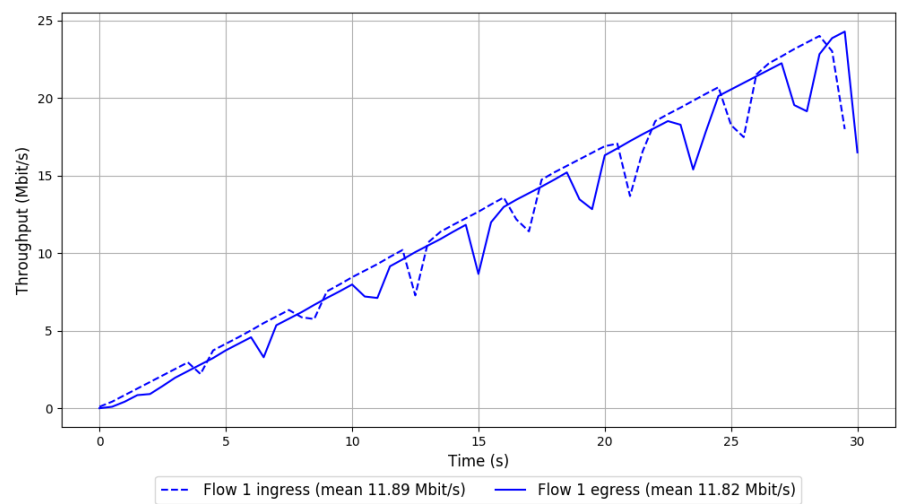
-- Flow 1:

Average throughput: 11.82 Mbit/s

95th percentile per-packet one-way delay: 92.167 ms

Loss rate: 1.16%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-01-25 11:41:00

End at: 2019-01-25 11:41:30

Local clock offset: -6.725 ms

Remote clock offset: 3.083 ms

Below is generated by plot.py at 2019-01-25 12:55:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.97 Mbit/s

95th percentile per-packet one-way delay: 91.050 ms

Loss rate: 1.16%

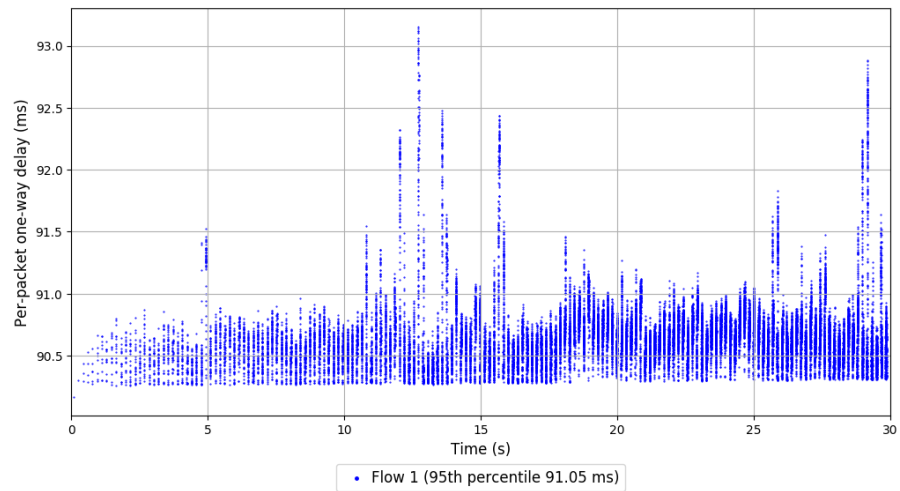
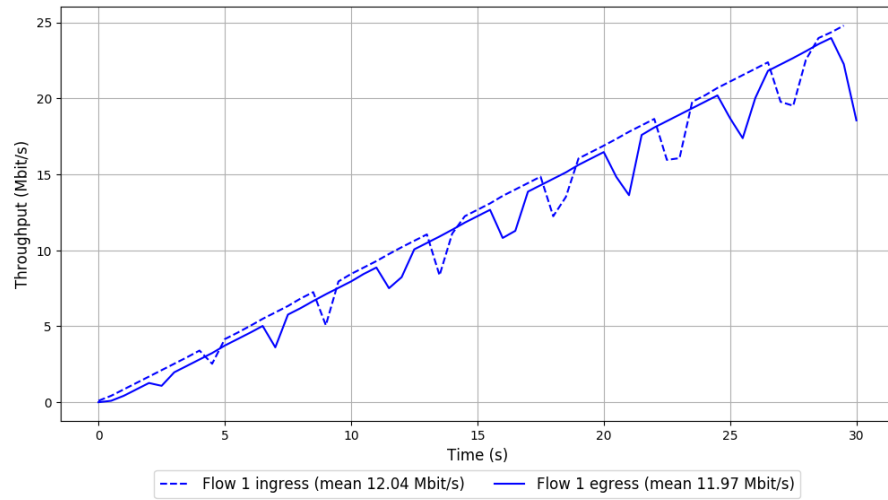
-- Flow 1:

Average throughput: 11.97 Mbit/s

95th percentile per-packet one-way delay: 91.050 ms

Loss rate: 1.16%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-01-25 12:05:59

End at: 2019-01-25 12:06:29

Local clock offset: -5.296 ms

Remote clock offset: 3.676 ms

Below is generated by plot.py at 2019-01-25 12:55:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.10 Mbit/s

95th percentile per-packet one-way delay: 91.323 ms

Loss rate: 1.15%

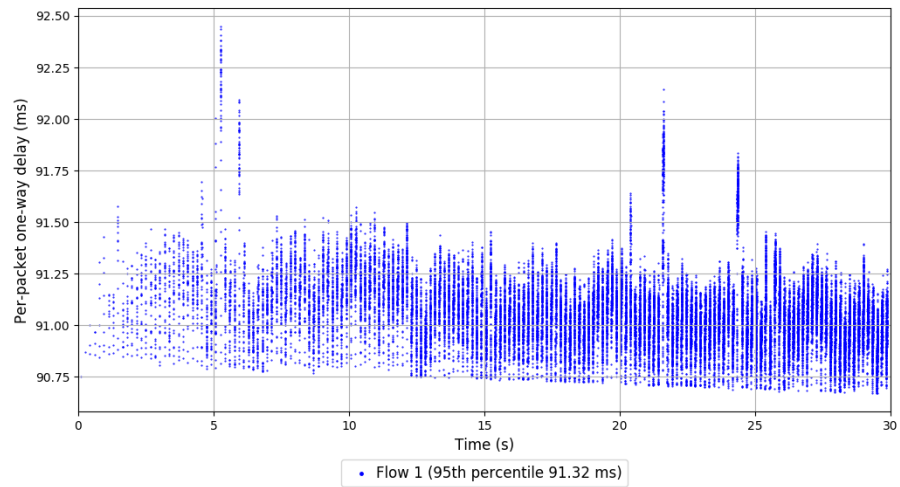
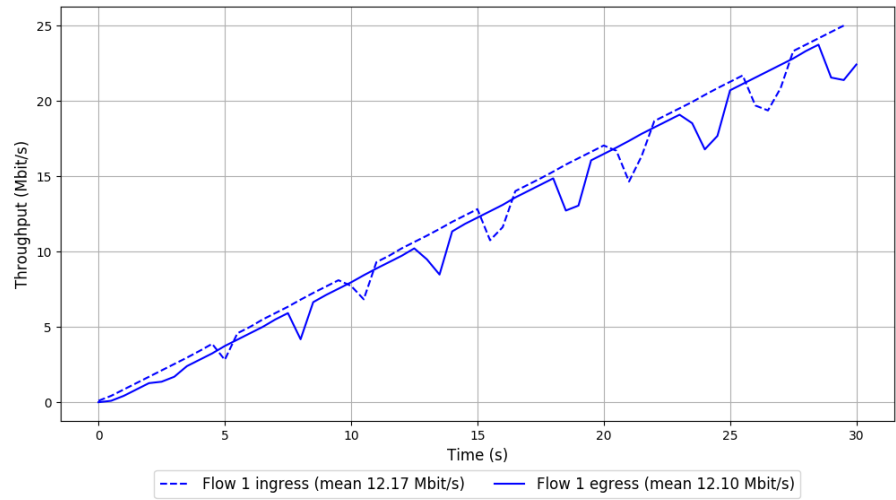
-- Flow 1:

Average throughput: 12.10 Mbit/s

95th percentile per-packet one-way delay: 91.323 ms

Loss rate: 1.15%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-01-25 12:30:59

End at: 2019-01-25 12:31:29

Local clock offset: -1.296 ms

Remote clock offset: 8.245 ms

Below is generated by plot.py at 2019-01-25 12:55:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.75 Mbit/s

95th percentile per-packet one-way delay: 88.647 ms

Loss rate: 1.15%

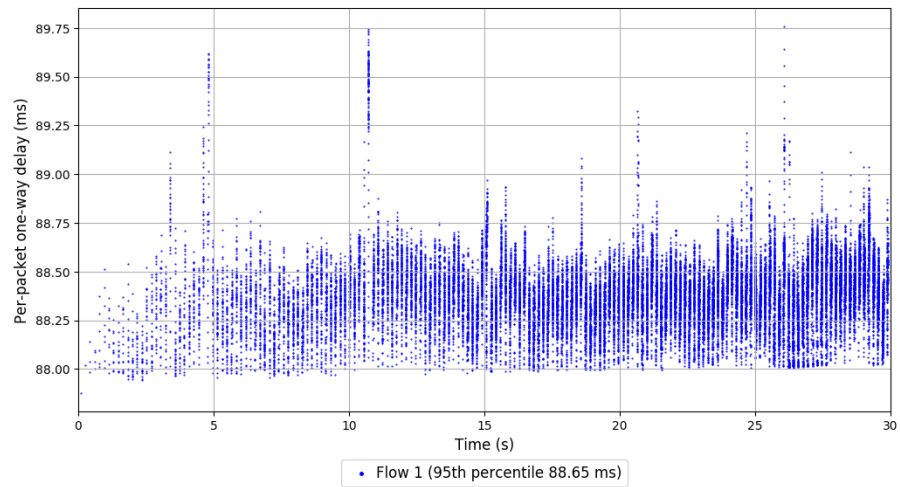
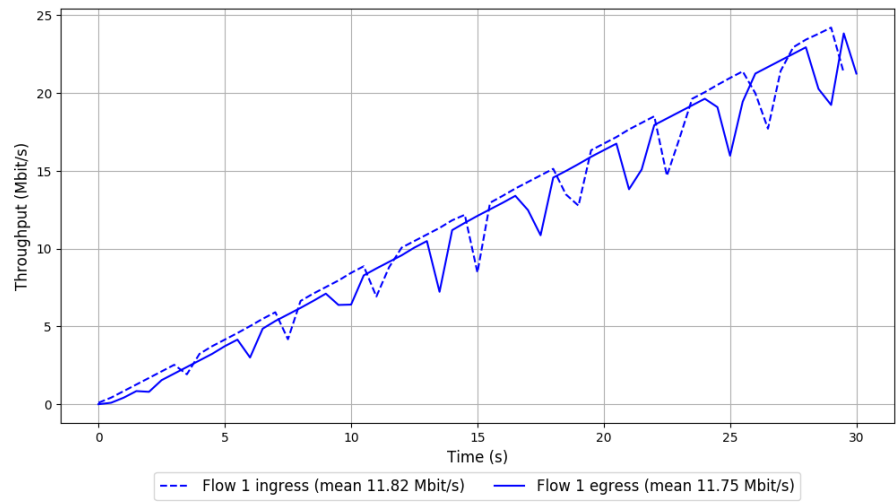
-- Flow 1:

Average throughput: 11.75 Mbit/s

95th percentile per-packet one-way delay: 88.647 ms

Loss rate: 1.15%

Run 5: Report of LEDBAT — Data Link

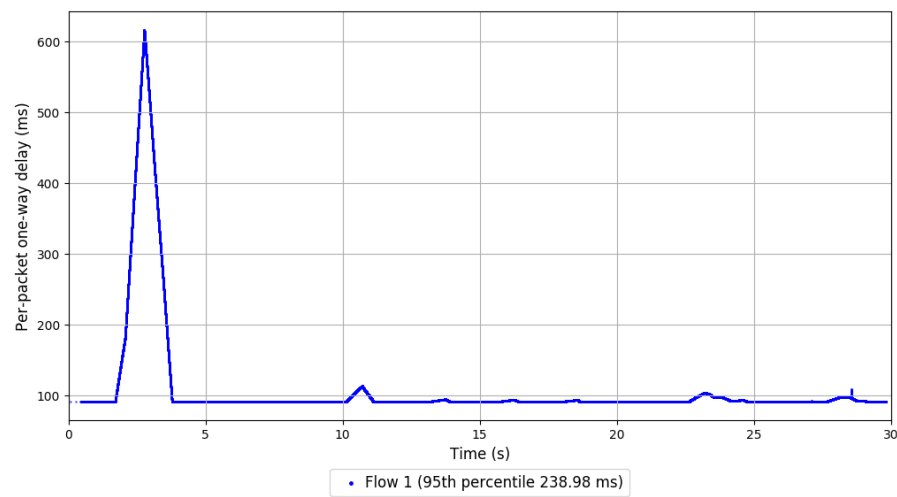
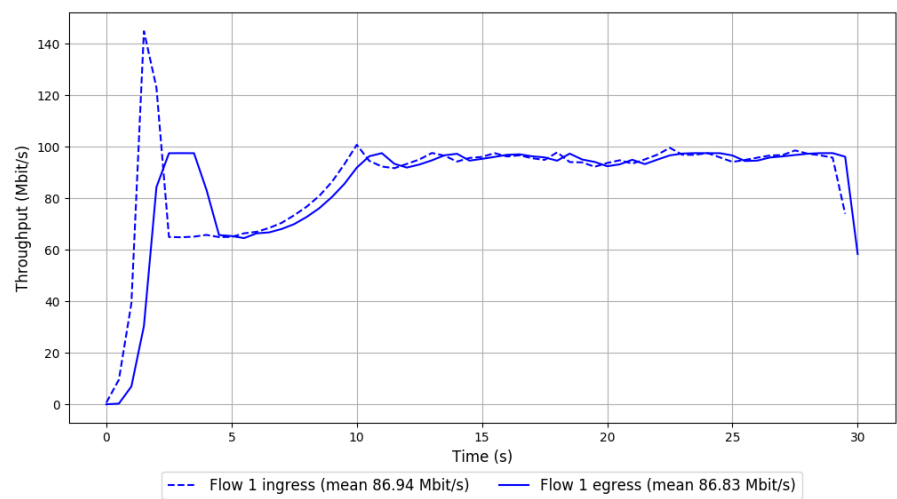


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-01-25 10:42:46
End at: 2019-01-25 10:43:16
Local clock offset: -3.192 ms
Remote clock offset: 3.253 ms

# Below is generated by plot.py at 2019-01-25 12:55:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.83 Mbit/s
95th percentile per-packet one-way delay: 238.977 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 86.83 Mbit/s
95th percentile per-packet one-way delay: 238.977 ms
Loss rate: 0.70%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-01-25 11:07:45

End at: 2019-01-25 11:08:15

Local clock offset: -2.211 ms

Remote clock offset: 8.02 ms

Below is generated by plot.py at 2019-01-25 12:55:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.44 Mbit/s

95th percentile per-packet one-way delay: 225.065 ms

Loss rate: 0.71%

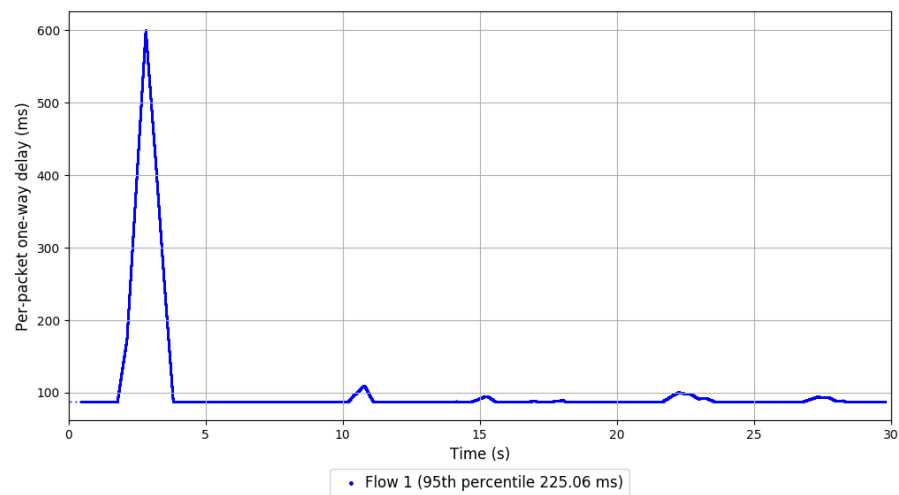
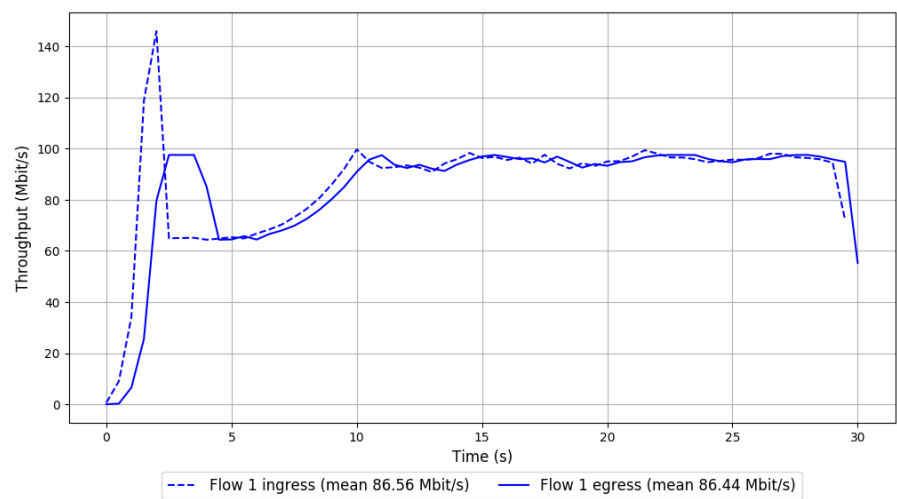
-- Flow 1:

Average throughput: 86.44 Mbit/s

95th percentile per-packet one-way delay: 225.065 ms

Loss rate: 0.71%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-01-25 11:32:43

End at: 2019-01-25 11:33:13

Local clock offset: -4.452 ms

Remote clock offset: 6.251 ms

Below is generated by plot.py at 2019-01-25 12:55:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.17 Mbit/s

95th percentile per-packet one-way delay: 227.028 ms

Loss rate: 0.74%

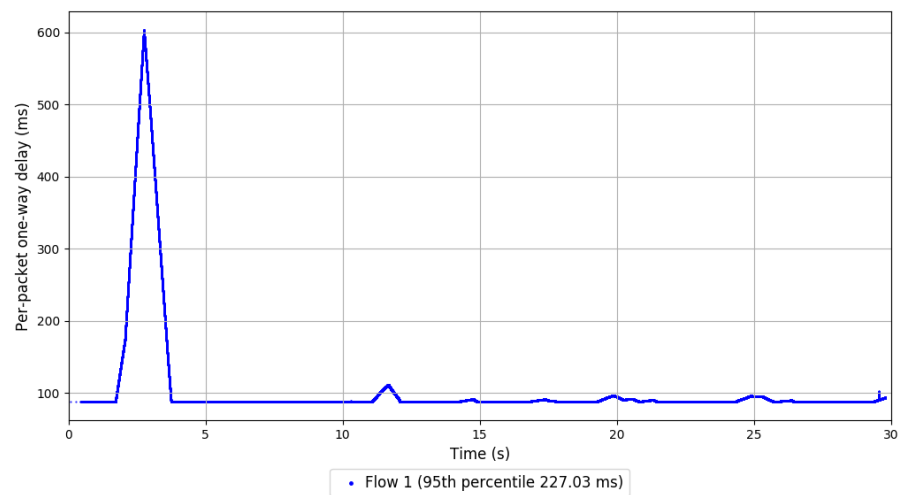
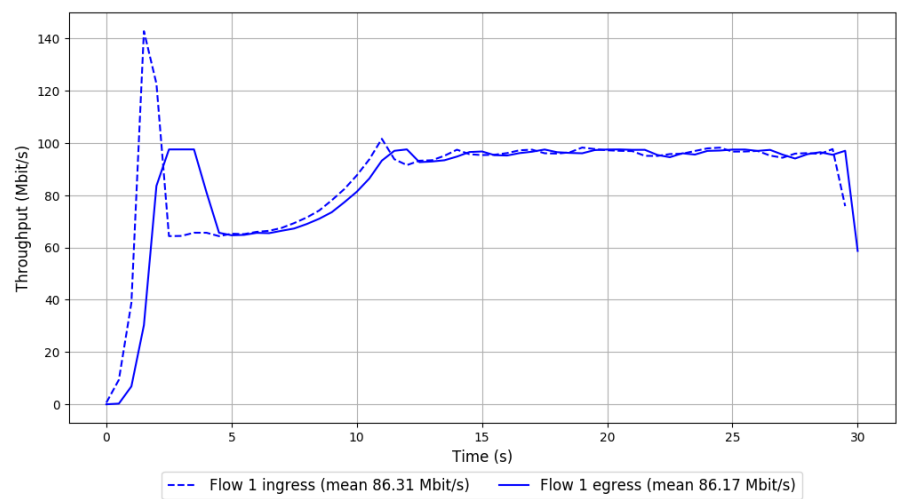
-- Flow 1:

Average throughput: 86.17 Mbit/s

95th percentile per-packet one-way delay: 227.028 ms

Loss rate: 0.74%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-01-25 11:57:42

End at: 2019-01-25 11:58:12

Local clock offset: -8.453 ms

Remote clock offset: 1.971 ms

Below is generated by plot.py at 2019-01-25 12:55:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.71 Mbit/s

95th percentile per-packet one-way delay: 262.530 ms

Loss rate: 0.73%

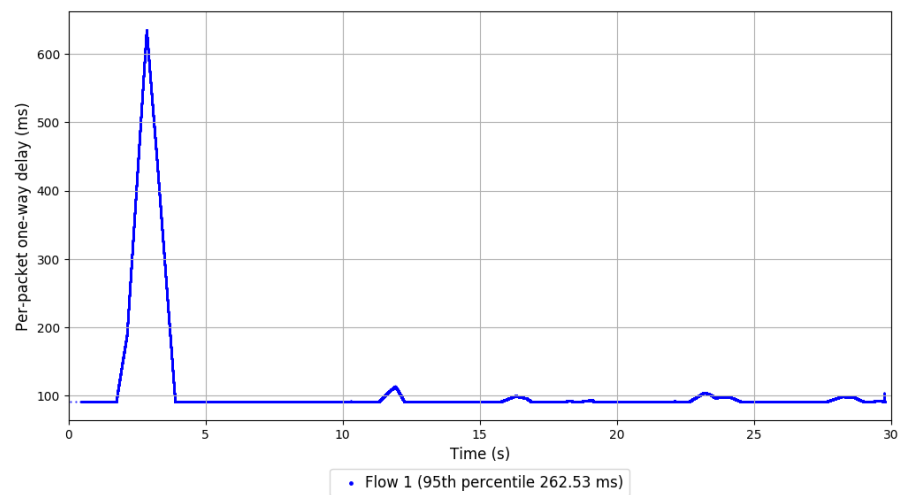
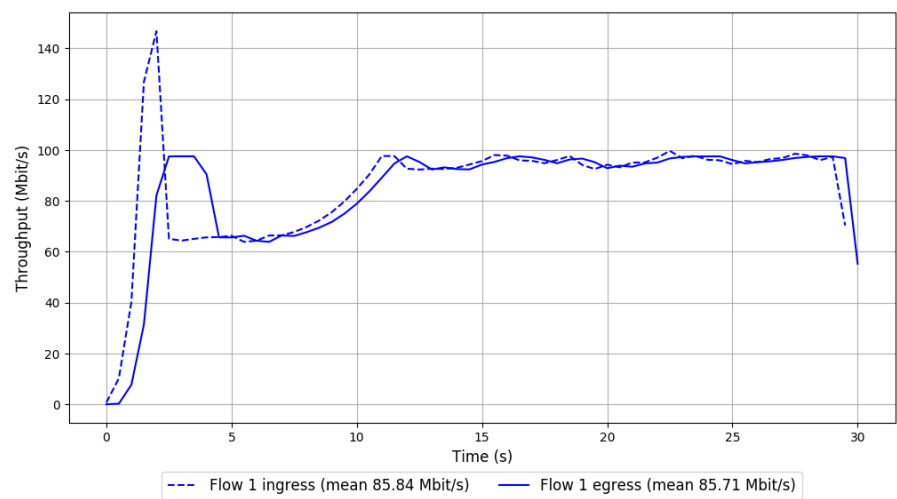
-- Flow 1:

Average throughput: 85.71 Mbit/s

95th percentile per-packet one-way delay: 262.530 ms

Loss rate: 0.73%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-01-25 12:22:42

End at: 2019-01-25 12:23:12

Local clock offset: -2.288 ms

Remote clock offset: 3.158 ms

Below is generated by plot.py at 2019-01-25 12:55:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.99 Mbit/s

95th percentile per-packet one-way delay: 248.682 ms

Loss rate: 0.91%

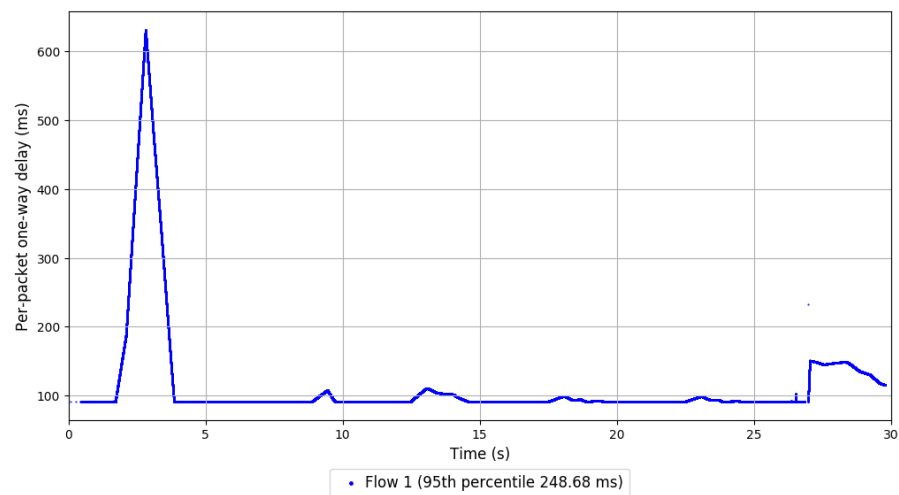
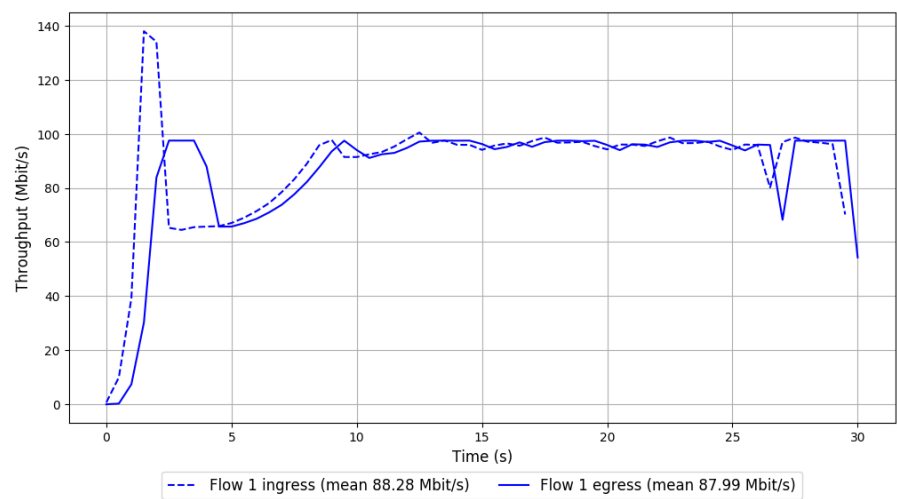
-- Flow 1:

Average throughput: 87.99 Mbit/s

95th percentile per-packet one-way delay: 248.682 ms

Loss rate: 0.91%

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2019-01-25 11:00:28

End at: 2019-01-25 11:00:58

Local clock offset: -2.421 ms

Remote clock offset: 9.071 ms

Below is generated by plot.py at 2019-01-25 12:56:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.18 Mbit/s

95th percentile per-packet one-way delay: 463.401 ms

Loss rate: 1.27%

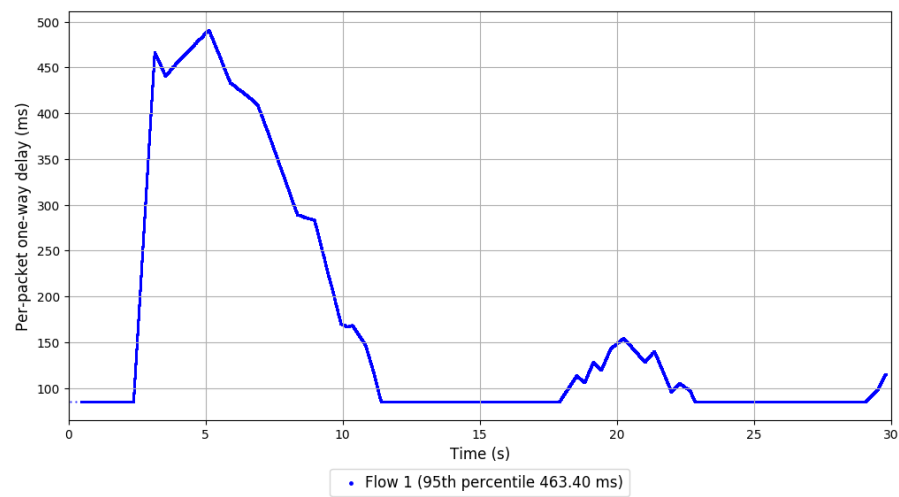
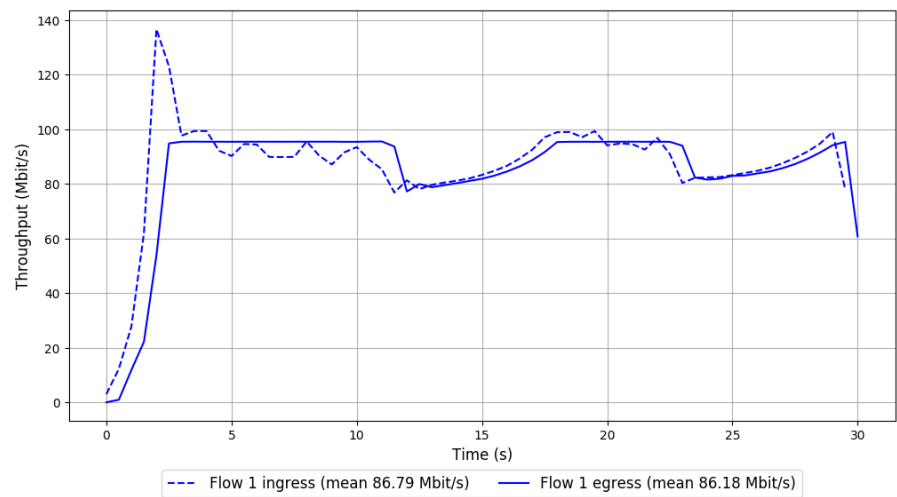
-- Flow 1:

Average throughput: 86.18 Mbit/s

95th percentile per-packet one-way delay: 463.401 ms

Loss rate: 1.27%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-01-25 11:25:27

End at: 2019-01-25 11:25:57

Local clock offset: -2.135 ms

Remote clock offset: 7.245 ms

Below is generated by plot.py at 2019-01-25 12:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.11 Mbit/s

95th percentile per-packet one-way delay: 414.401 ms

Loss rate: 1.59%

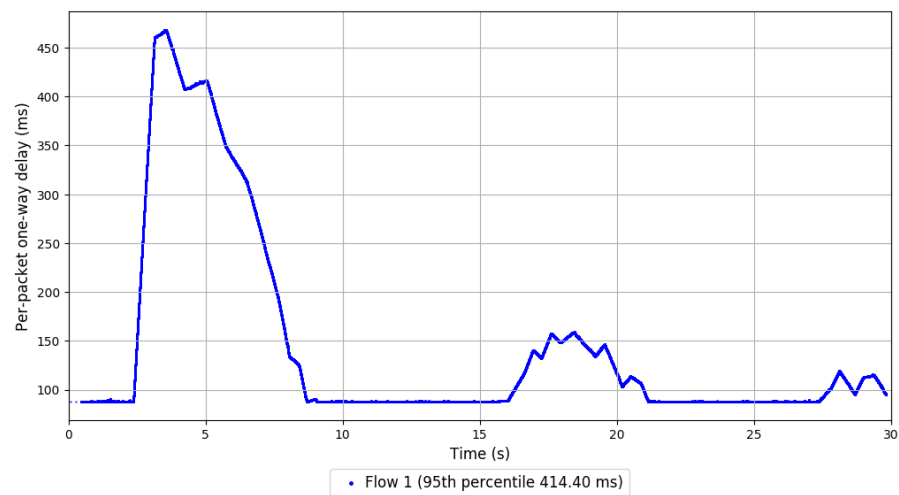
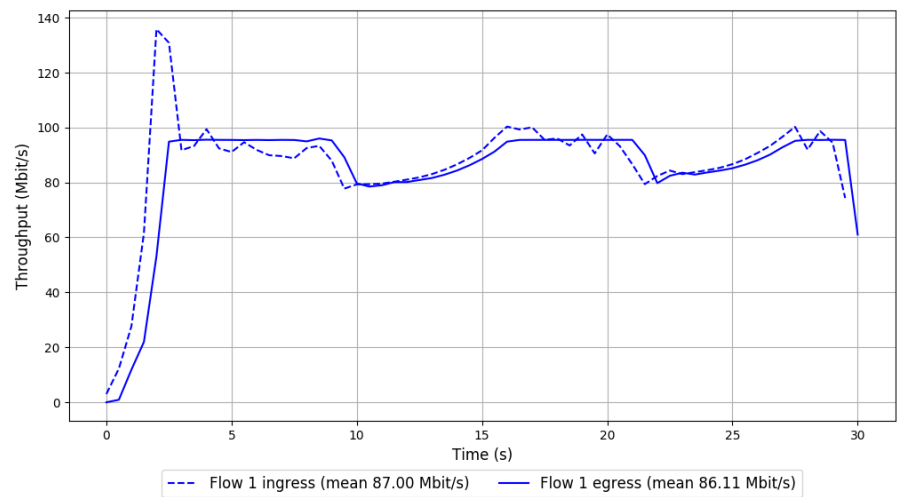
-- Flow 1:

Average throughput: 86.11 Mbit/s

95th percentile per-packet one-way delay: 414.401 ms

Loss rate: 1.59%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-01-25 11:50:25

End at: 2019-01-25 11:50:55

Local clock offset: -7.22 ms

Remote clock offset: 6.74 ms

Below is generated by plot.py at 2019-01-25 12:57:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.75 Mbit/s

95th percentile per-packet one-way delay: 444.109 ms

Loss rate: 1.75%

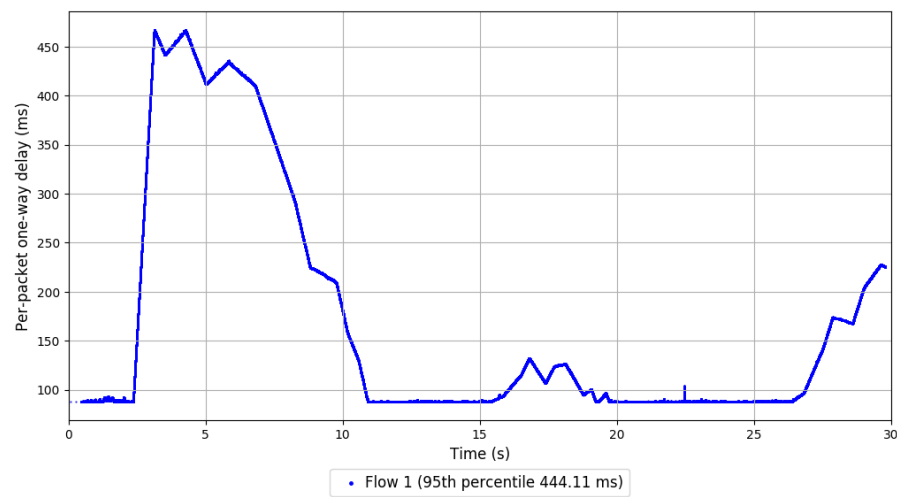
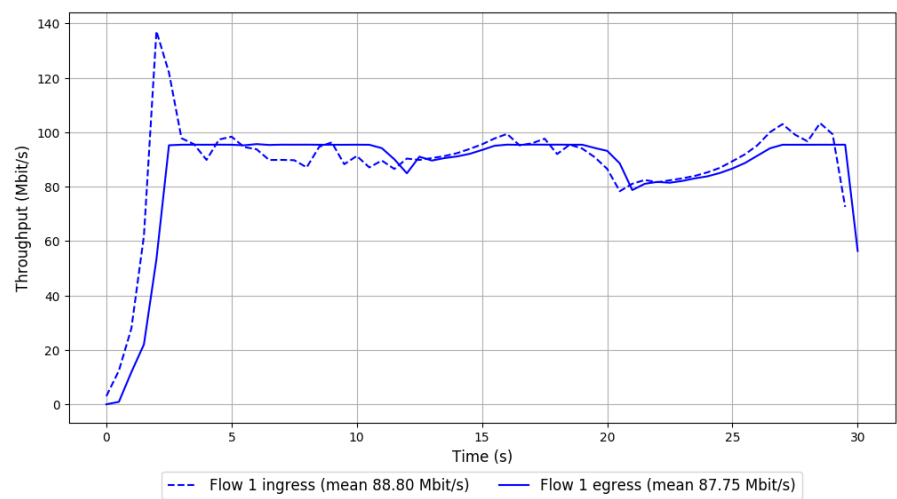
-- Flow 1:

Average throughput: 87.75 Mbit/s

95th percentile per-packet one-way delay: 444.109 ms

Loss rate: 1.75%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-01-25 12:15:26

End at: 2019-01-25 12:15:56

Local clock offset: -2.273 ms

Remote clock offset: 4.173 ms

Below is generated by plot.py at 2019-01-25 12:57:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.76 Mbit/s

95th percentile per-packet one-way delay: 457.521 ms

Loss rate: 1.65%

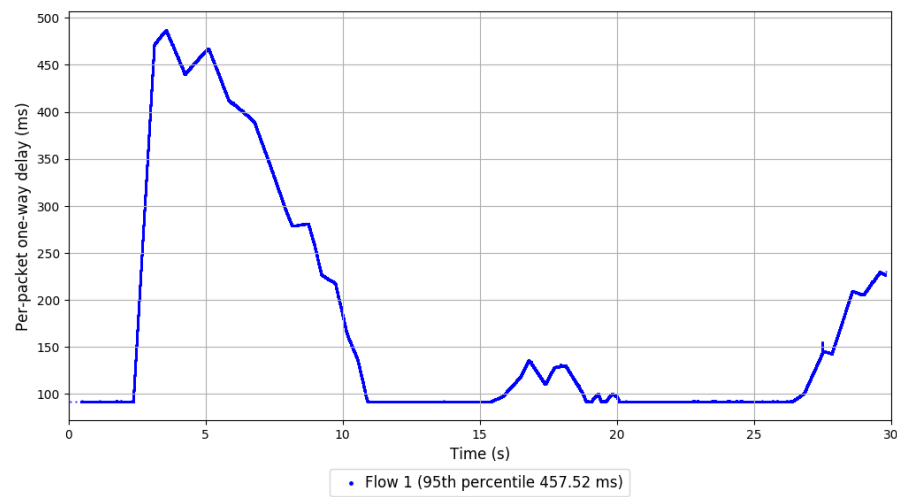
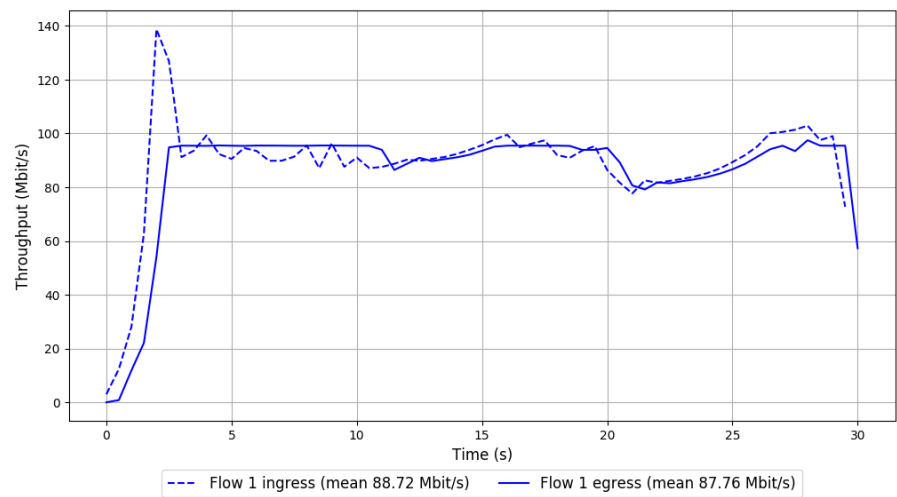
-- Flow 1:

Average throughput: 87.76 Mbit/s

95th percentile per-packet one-way delay: 457.521 ms

Loss rate: 1.65%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-01-25 12:40:26

End at: 2019-01-25 12:40:56

Local clock offset: -2.233 ms

Remote clock offset: 4.18 ms

Below is generated by plot.py at 2019-01-25 12:57:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.13 Mbit/s

95th percentile per-packet one-way delay: 469.619 ms

Loss rate: 1.31%

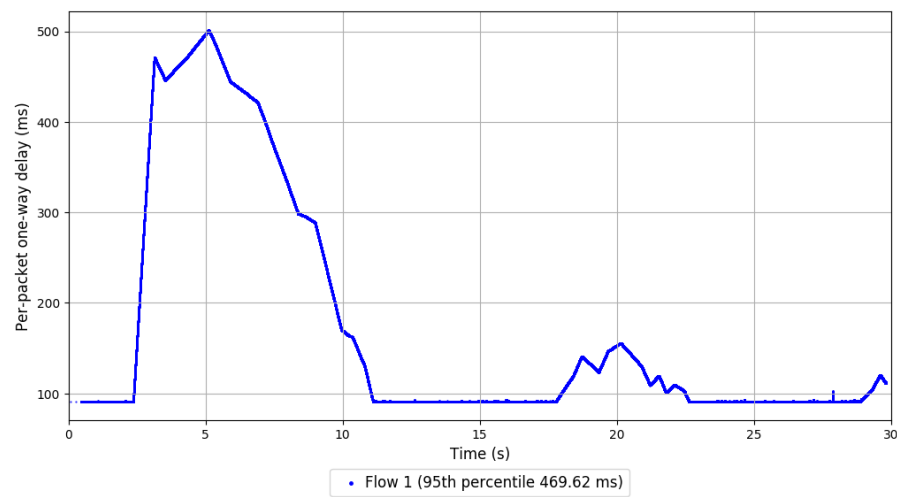
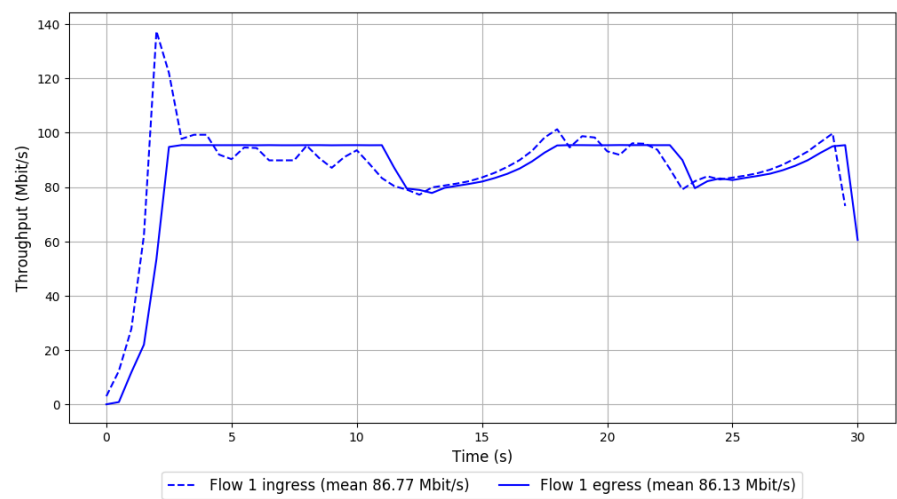
-- Flow 1:

Average throughput: 86.13 Mbit/s

95th percentile per-packet one-way delay: 469.619 ms

Loss rate: 1.31%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-01-25 11:02:55

End at: 2019-01-25 11:03:25

Local clock offset: -1.899 ms

Remote clock offset: 6.88 ms

Below is generated by plot.py at 2019-01-25 12:57:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.10 Mbit/s

95th percentile per-packet one-way delay: 94.611 ms

Loss rate: 0.86%

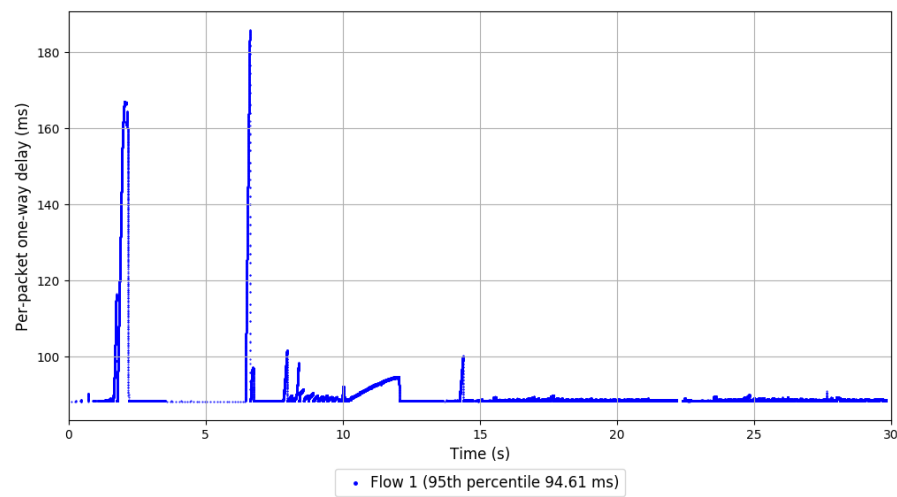
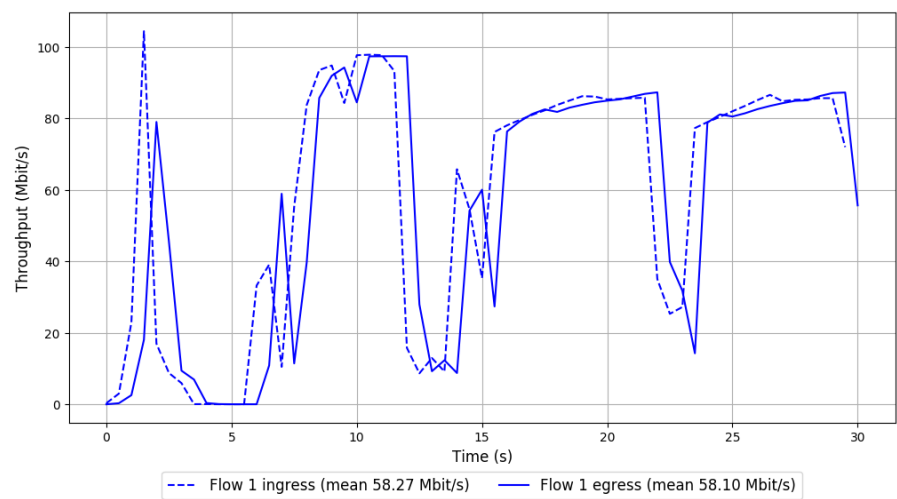
-- Flow 1:

Average throughput: 58.10 Mbit/s

95th percentile per-packet one-way delay: 94.611 ms

Loss rate: 0.86%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-01-25 11:27:54

End at: 2019-01-25 11:28:24

Local clock offset: -2.104 ms

Remote clock offset: 4.065 ms

Below is generated by plot.py at 2019-01-25 12:57:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.85 Mbit/s

95th percentile per-packet one-way delay: 99.707 ms

Loss rate: 0.86%

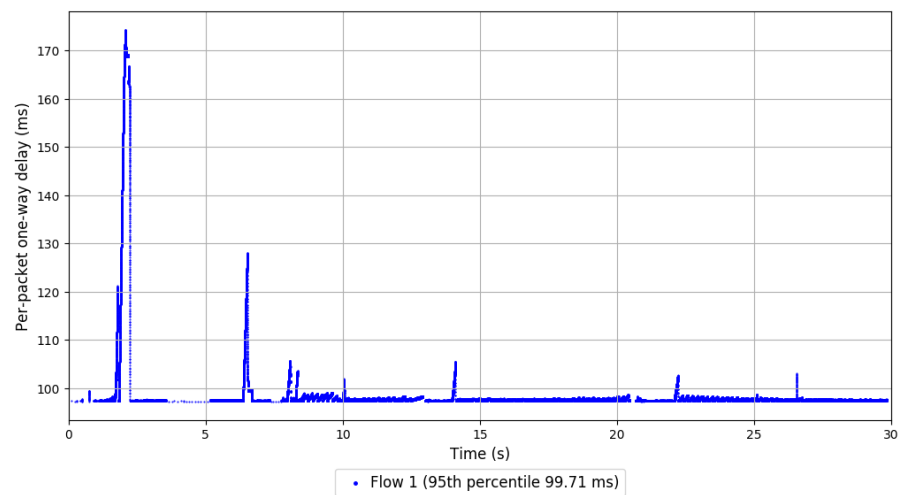
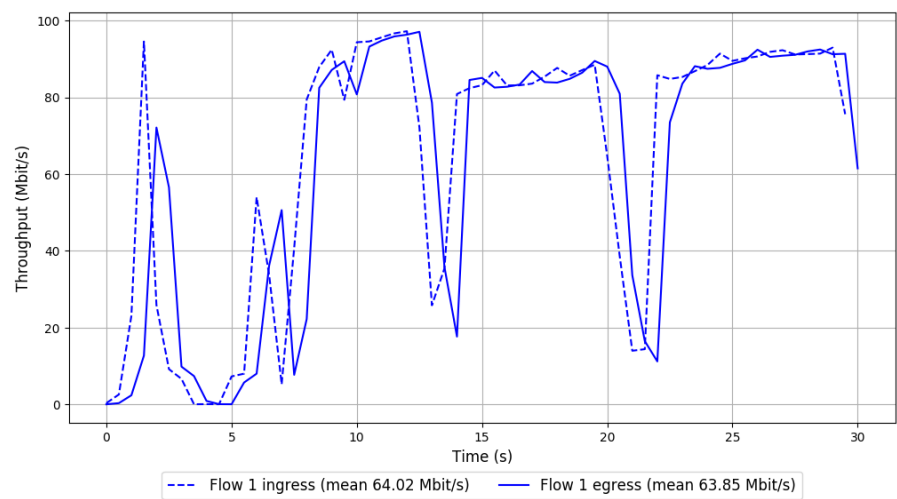
-- Flow 1:

Average throughput: 63.85 Mbit/s

95th percentile per-packet one-way delay: 99.707 ms

Loss rate: 0.86%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-01-25 11:52:52

End at: 2019-01-25 11:53:22

Local clock offset: -8.167 ms

Remote clock offset: 6.721 ms

Below is generated by plot.py at 2019-01-25 12:57:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.28 Mbit/s

95th percentile per-packet one-way delay: 92.575 ms

Loss rate: 0.84%

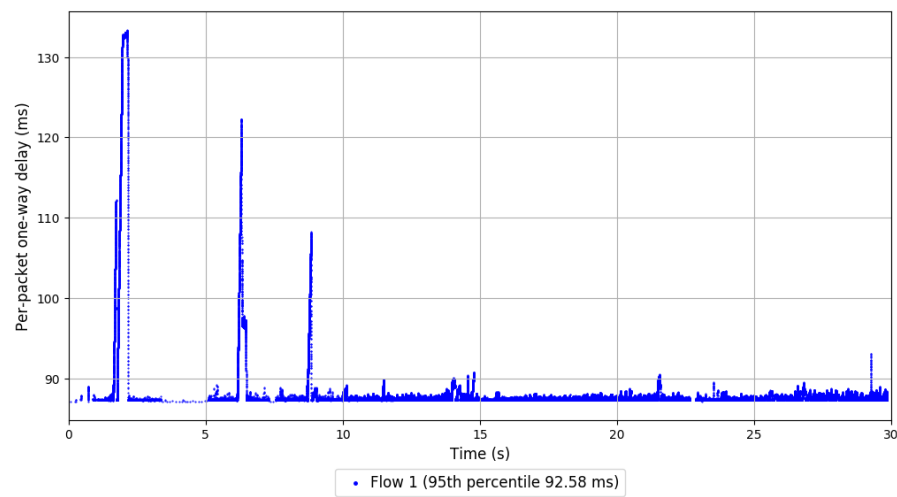
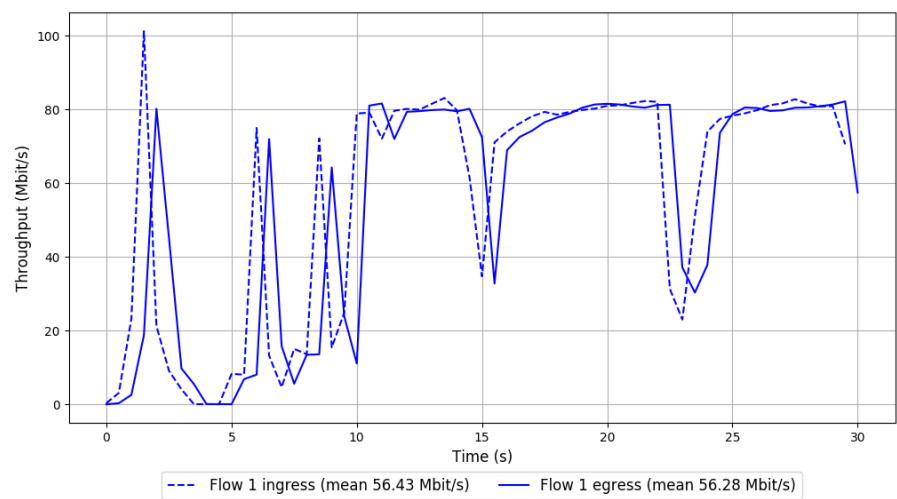
-- Flow 1:

Average throughput: 56.28 Mbit/s

95th percentile per-packet one-way delay: 92.575 ms

Loss rate: 0.84%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-01-25 12:17:53

End at: 2019-01-25 12:18:23

Local clock offset: -1.943 ms

Remote clock offset: 4.077 ms

Below is generated by plot.py at 2019-01-25 12:57:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.84 Mbit/s

95th percentile per-packet one-way delay: 98.108 ms

Loss rate: 0.78%

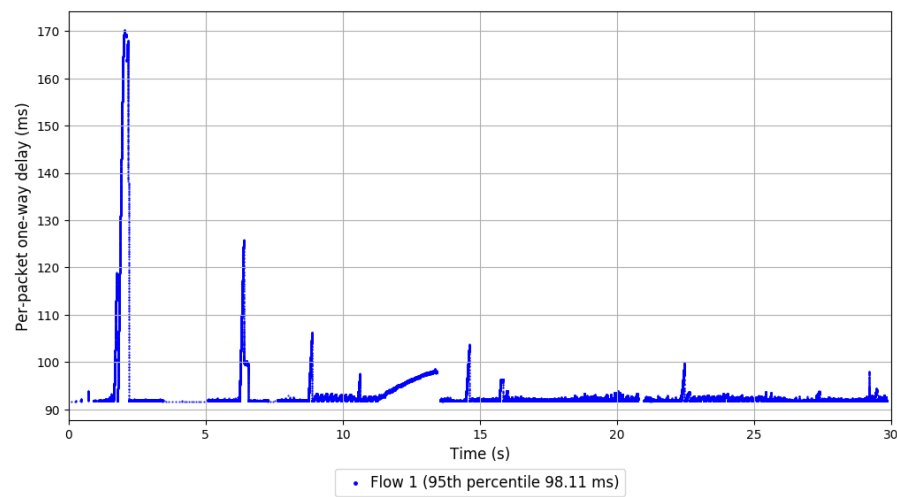
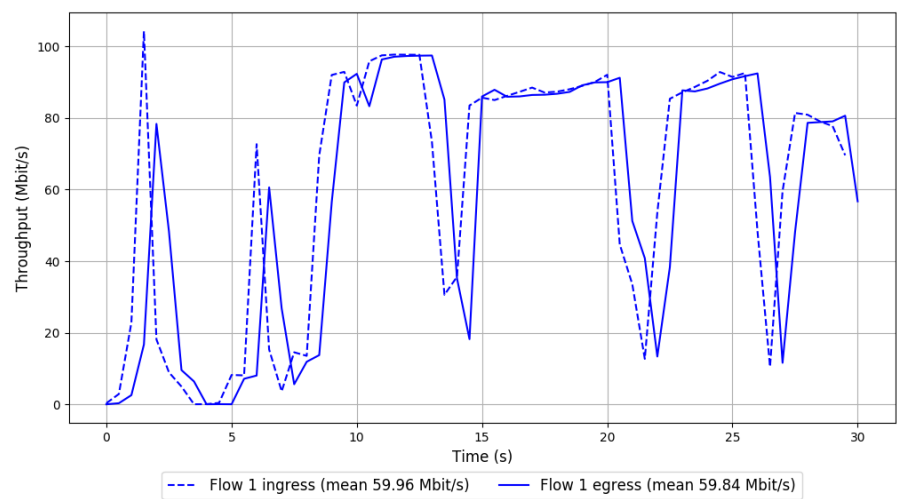
-- Flow 1:

Average throughput: 59.84 Mbit/s

95th percentile per-packet one-way delay: 98.108 ms

Loss rate: 0.78%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-01-25 12:42:53

End at: 2019-01-25 12:43:23

Local clock offset: -2.367 ms

Remote clock offset: 4.176 ms

Below is generated by plot.py at 2019-01-25 12:57:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.06 Mbit/s

95th percentile per-packet one-way delay: 98.080 ms

Loss rate: 0.92%

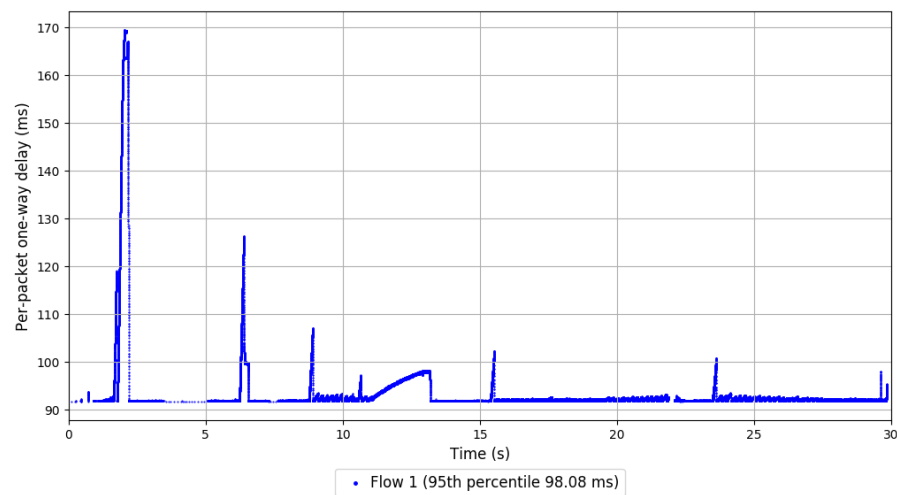
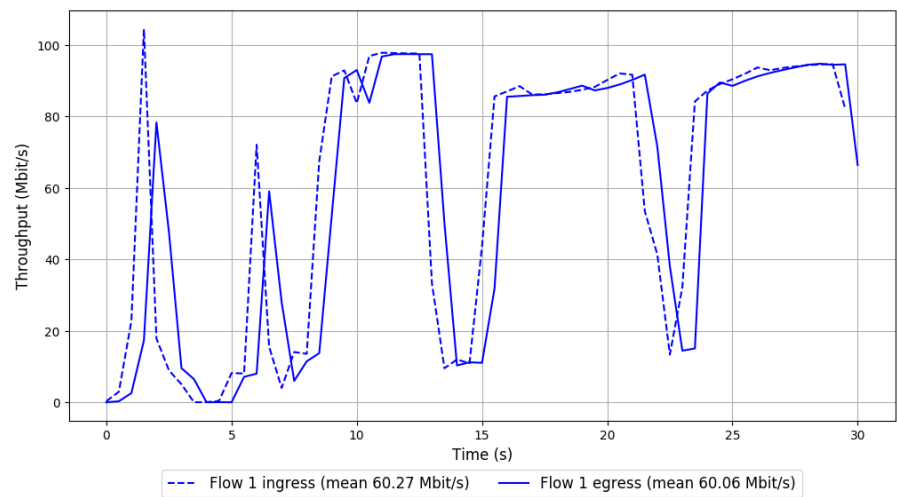
-- Flow 1:

Average throughput: 60.06 Mbit/s

95th percentile per-packet one-way delay: 98.080 ms

Loss rate: 0.92%

Run 5: Report of QUIC Cubic — Data Link

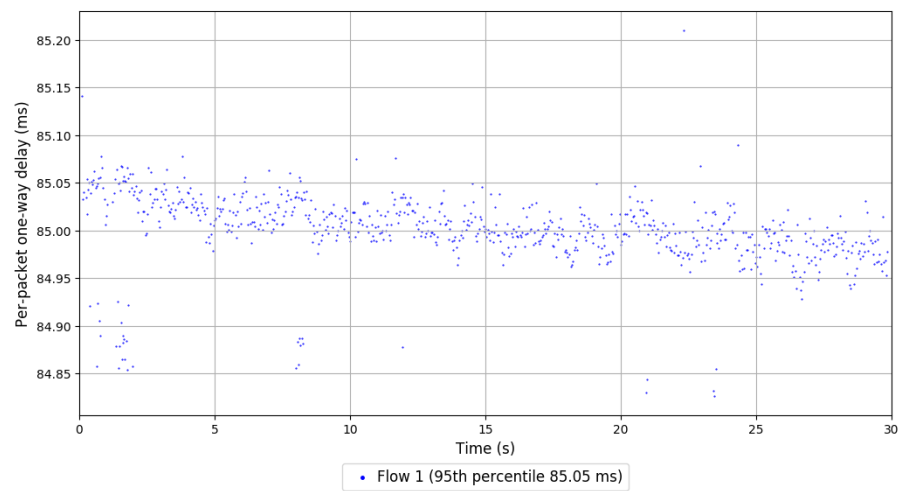
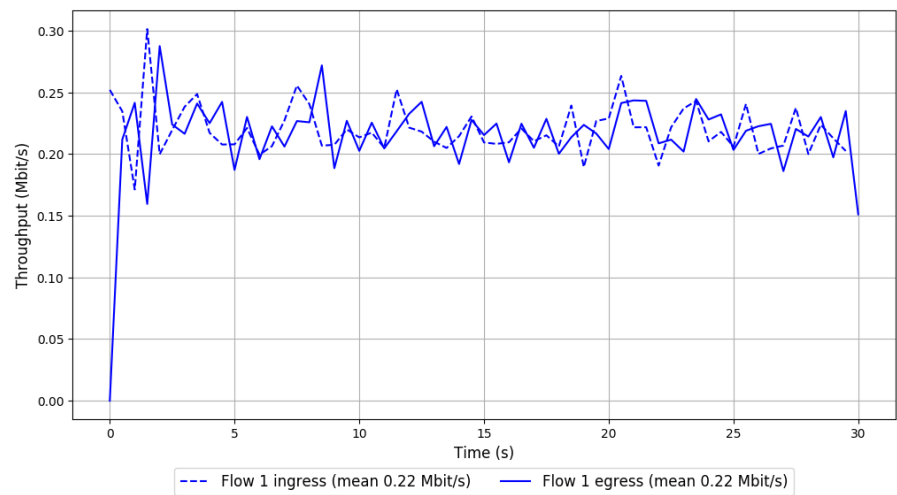


```
Run 1: Statistics of SCReAM

Start at: 2019-01-25 10:47:32
End at: 2019-01-25 10:48:02
Local clock offset: -3.341 ms
Remote clock offset: 8.18 ms

# Below is generated by plot.py at 2019-01-25 12:57:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.049 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.049 ms
Loss rate: 0.64%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-01-25 11:12:30

End at: 2019-01-25 11:13:00

Local clock offset: -2.317 ms

Remote clock offset: 8.106 ms

Below is generated by plot.py at 2019-01-25 12:57:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.987 ms

Loss rate: 0.64%

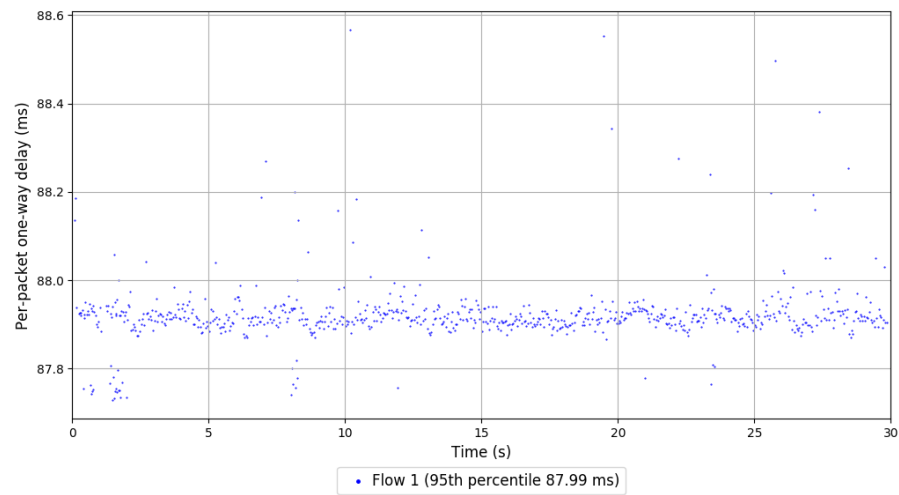
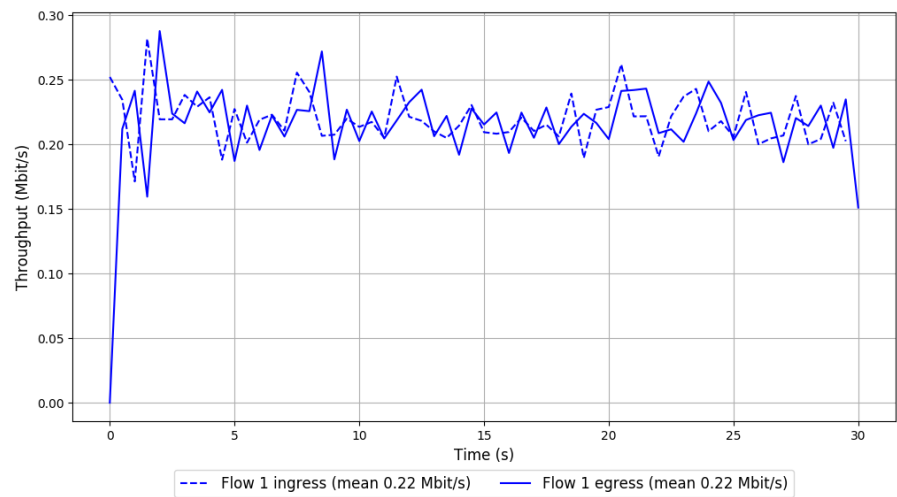
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.987 ms

Loss rate: 0.64%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-01-25 11:37:28

End at: 2019-01-25 11:37:59

Local clock offset: -5.14 ms

Remote clock offset: 3.466 ms

Below is generated by plot.py at 2019-01-25 12:57:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 91.208 ms

Loss rate: 0.64%

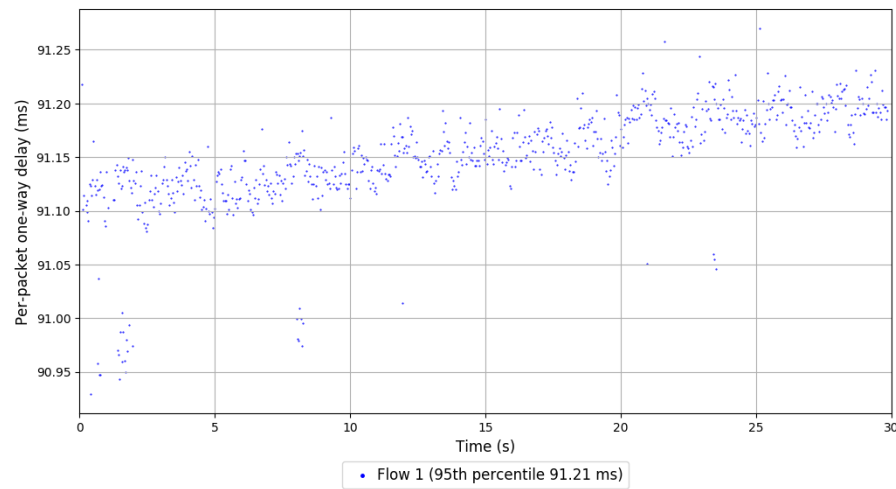
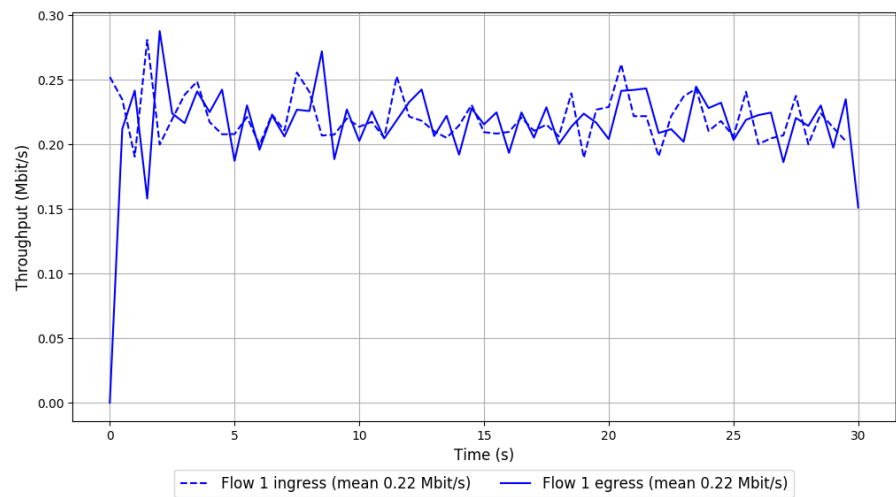
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 91.208 ms

Loss rate: 0.64%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-01-25 12:02:27

End at: 2019-01-25 12:02:57

Local clock offset: -6.871 ms

Remote clock offset: 2.272 ms

Below is generated by plot.py at 2019-01-25 12:57:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 91.925 ms

Loss rate: 0.51%

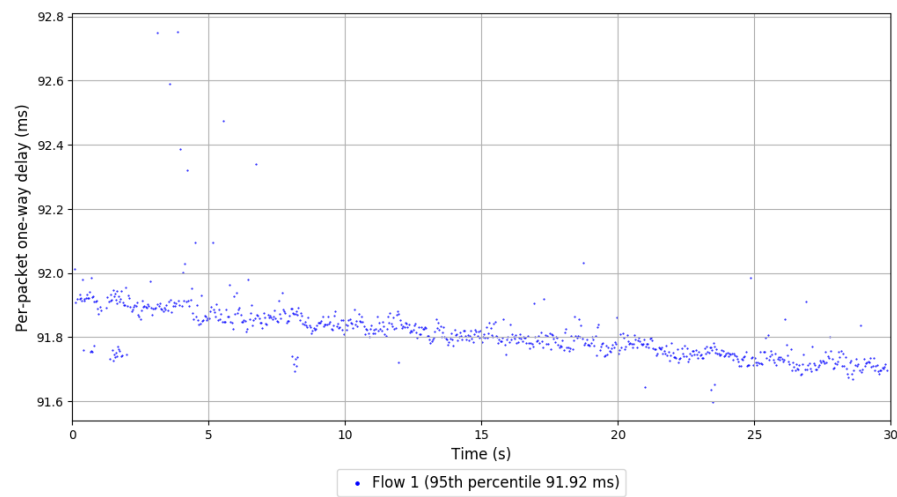
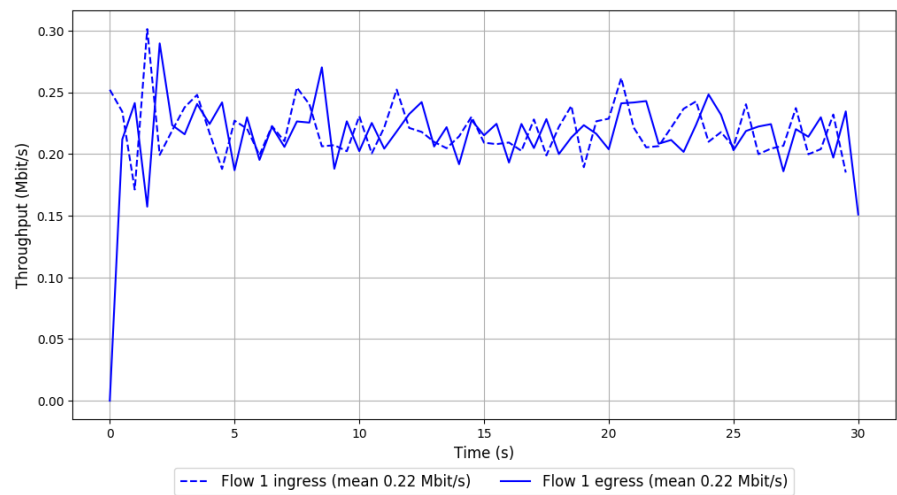
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 91.925 ms

Loss rate: 0.51%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-01-25 12:27:28

End at: 2019-01-25 12:27:58

Local clock offset: -1.162 ms

Remote clock offset: 4.546 ms

Below is generated by plot.py at 2019-01-25 12:57:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 91.450 ms

Loss rate: 0.51%

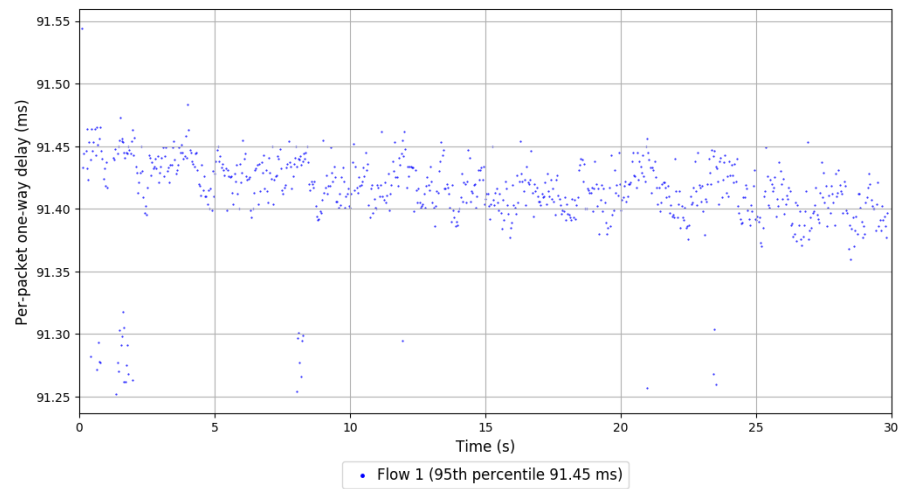
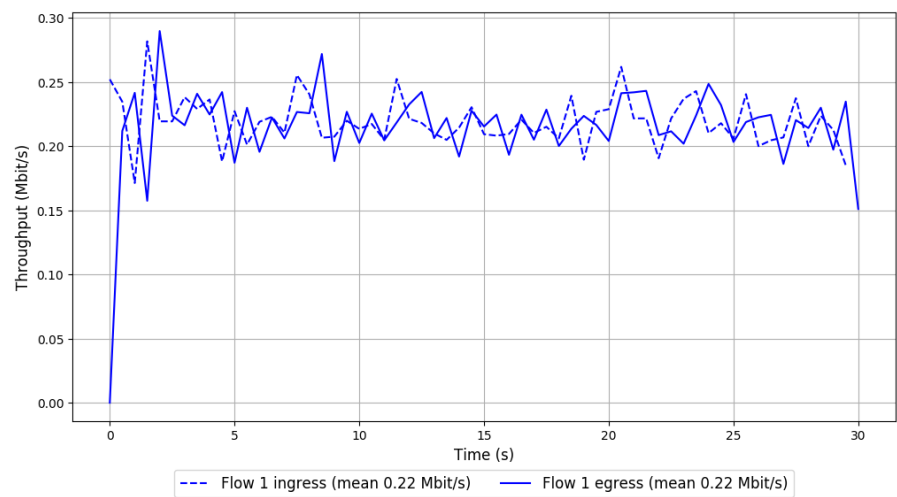
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 91.450 ms

Loss rate: 0.51%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-01-25 10:56:55

End at: 2019-01-25 10:57:25

Local clock offset: -1.781 ms

Remote clock offset: 2.38 ms

Below is generated by plot.py at 2019-01-25 12:57:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 96.202 ms

Loss rate: 0.67%

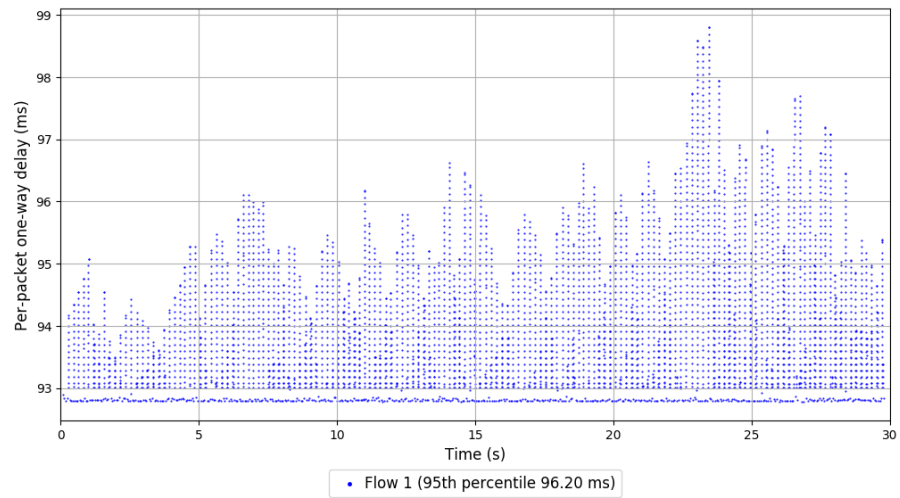
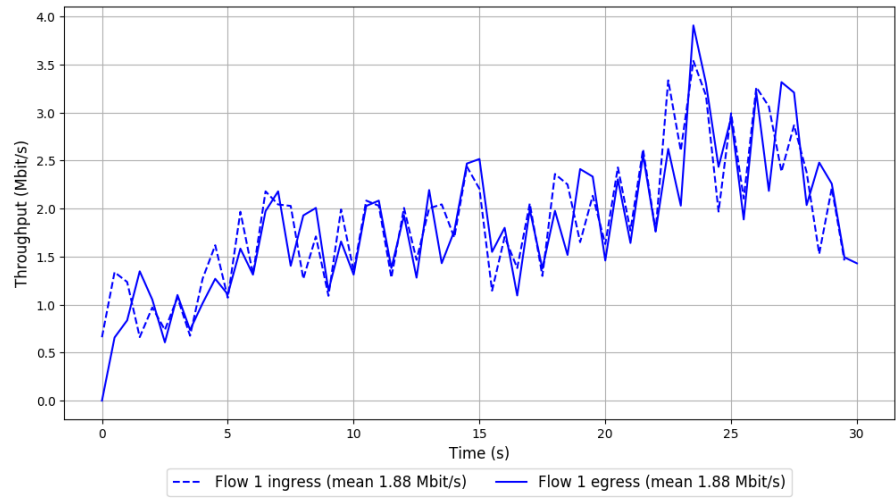
-- Flow 1:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 96.202 ms

Loss rate: 0.67%

Run 1: Report of Sprout — Data Link

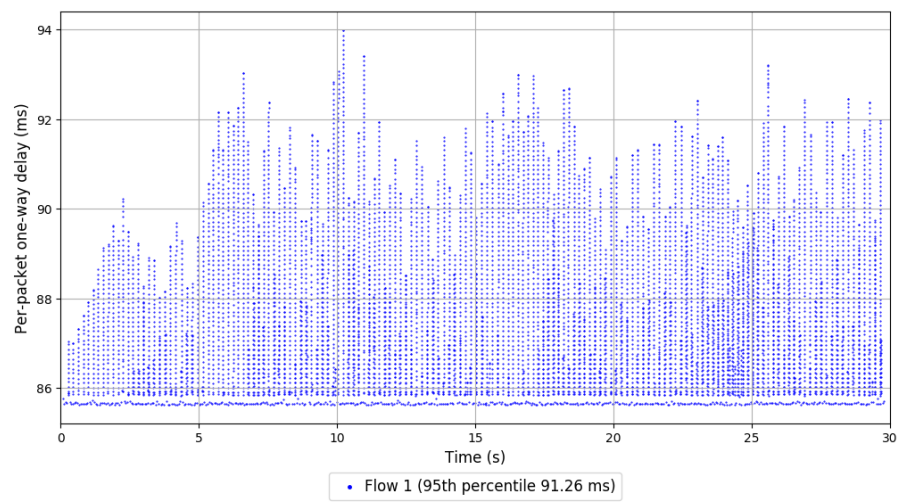
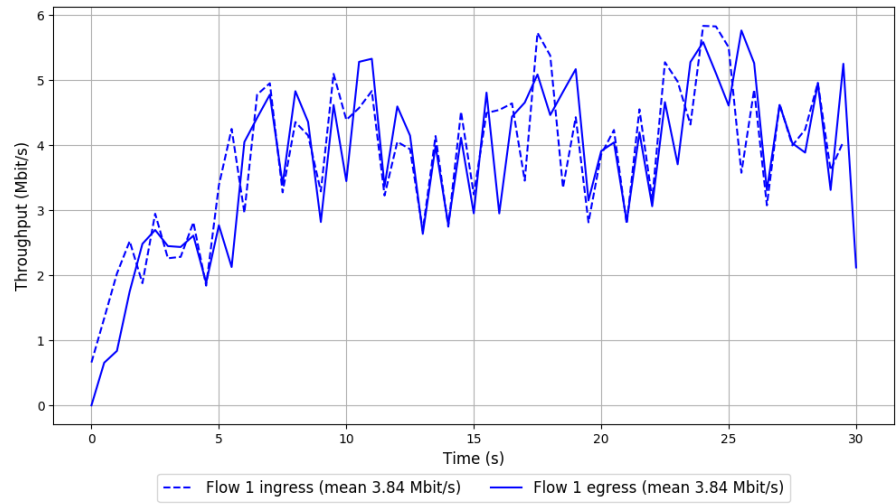


Run 2: Statistics of Sprout

Start at: 2019-01-25 11:21:53
End at: 2019-01-25 11:22:23
Local clock offset: -2.252 ms
Remote clock offset: 9.473 ms

Below is generated by plot.py at 2019-01-25 12:57:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.84 Mbit/s
95th percentile per-packet one-way delay: 91.257 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 3.84 Mbit/s
95th percentile per-packet one-way delay: 91.257 ms
Loss rate: 0.85%

Run 2: Report of Sprout — Data Link

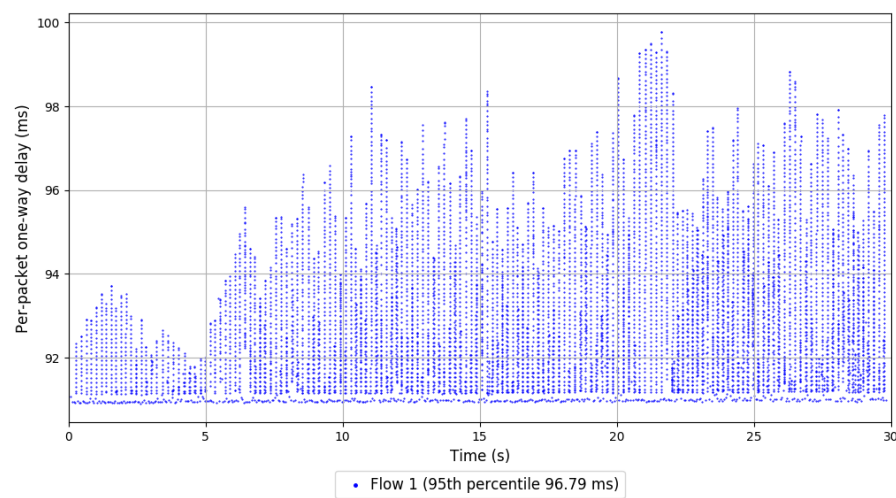
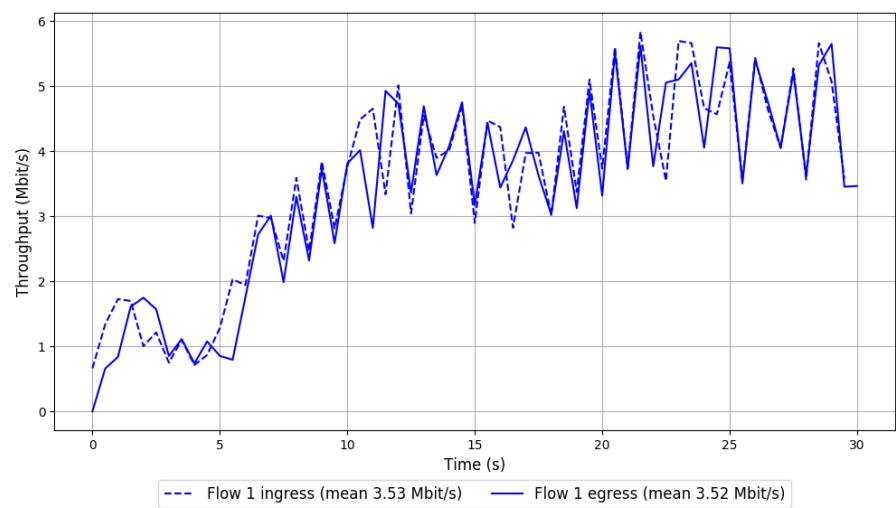


Run 3: Statistics of Sprout

Start at: 2019-01-25 11:46:51
End at: 2019-01-25 11:47:21
Local clock offset: -6.763 ms
Remote clock offset: 2.862 ms

Below is generated by plot.py at 2019-01-25 12:57:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.52 Mbit/s
95th percentile per-packet one-way delay: 96.790 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 3.52 Mbit/s
95th percentile per-packet one-way delay: 96.790 ms
Loss rate: 0.82%

Run 3: Report of Sprout — Data Link

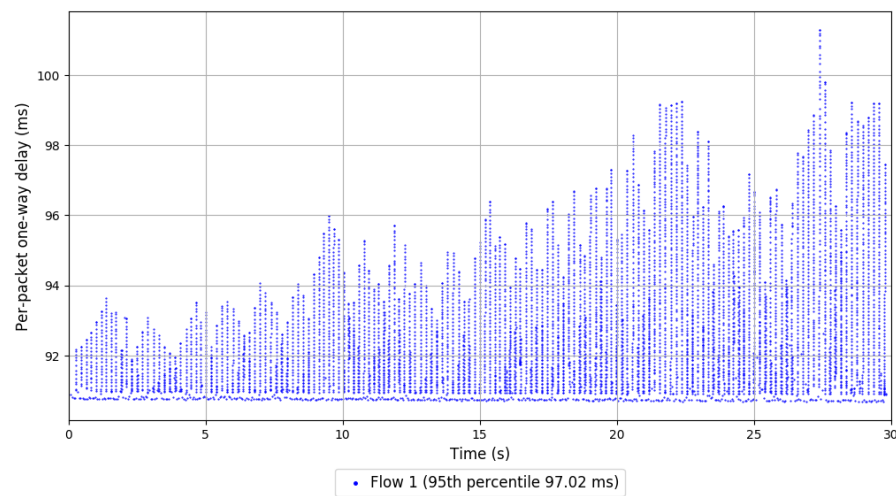
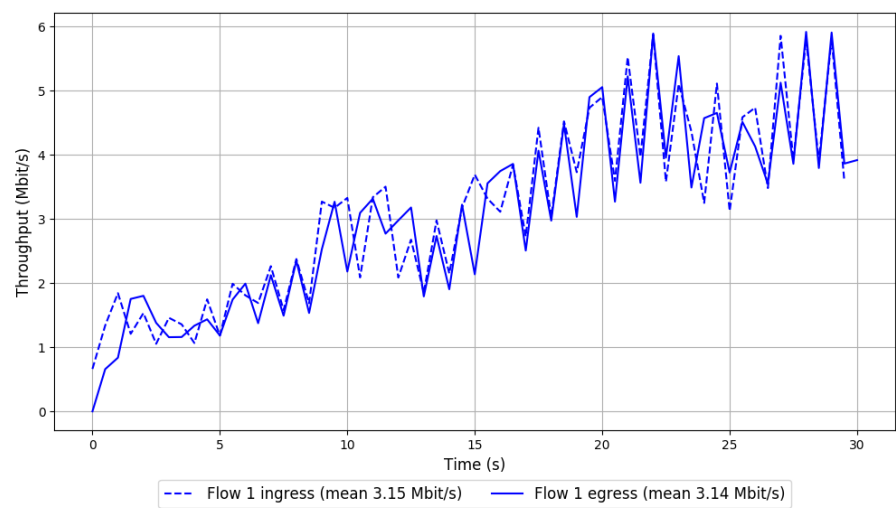


Run 4: Statistics of Sprout

Start at: 2019-01-25 12:11:51
End at: 2019-01-25 12:12:21
Local clock offset: -3.687 ms
Remote clock offset: 3.962 ms

Below is generated by plot.py at 2019-01-25 12:57:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.14 Mbit/s
95th percentile per-packet one-way delay: 97.022 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 3.14 Mbit/s
95th percentile per-packet one-way delay: 97.022 ms
Loss rate: 0.86%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-01-25 12:36:51

End at: 2019-01-25 12:37:21

Local clock offset: -2.773 ms

Remote clock offset: 9.37 ms

Below is generated by plot.py at 2019-01-25 12:57:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.25 Mbit/s

95th percentile per-packet one-way delay: 90.335 ms

Loss rate: 0.84%

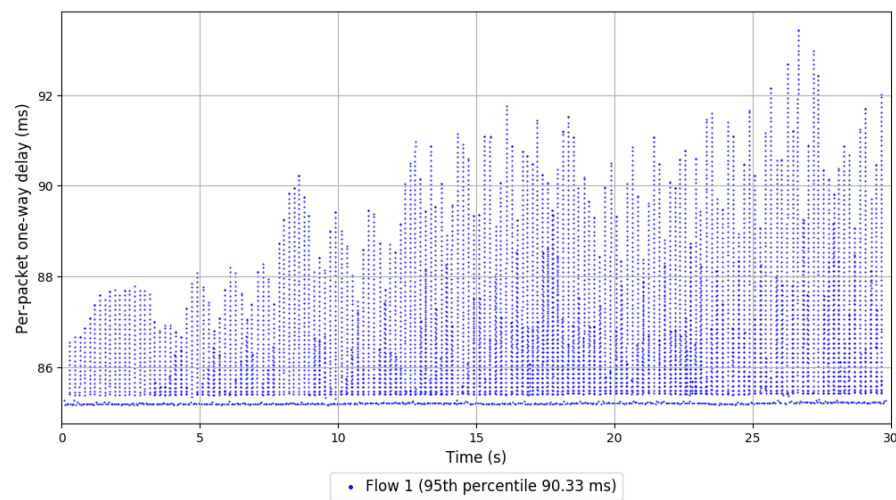
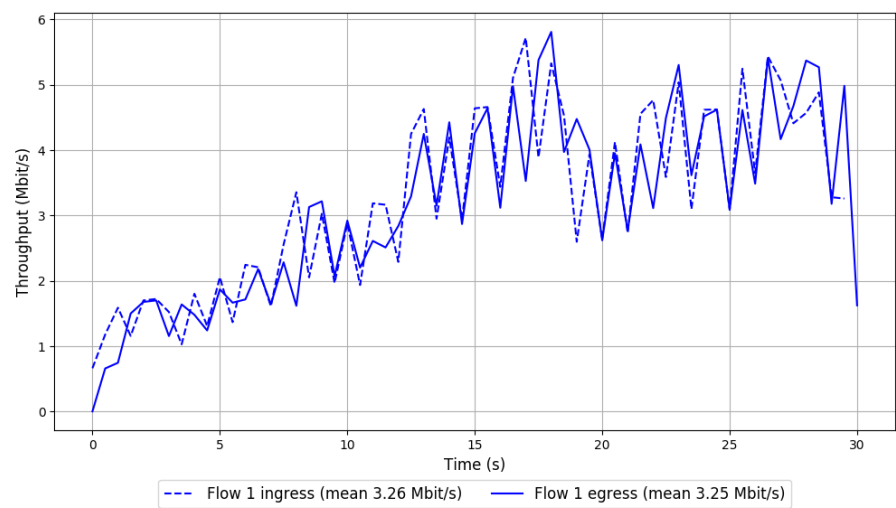
-- Flow 1:

Average throughput: 3.25 Mbit/s

95th percentile per-packet one-way delay: 90.335 ms

Loss rate: 0.84%

Run 5: Report of Sprout — Data Link

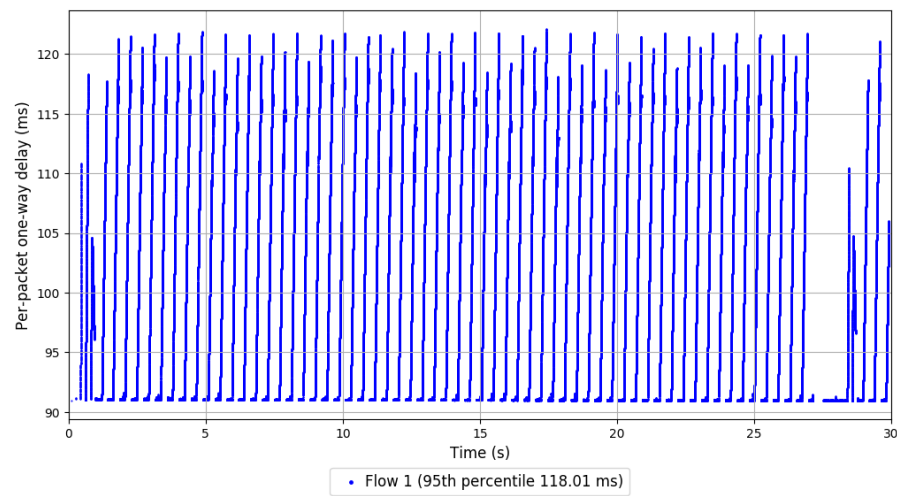
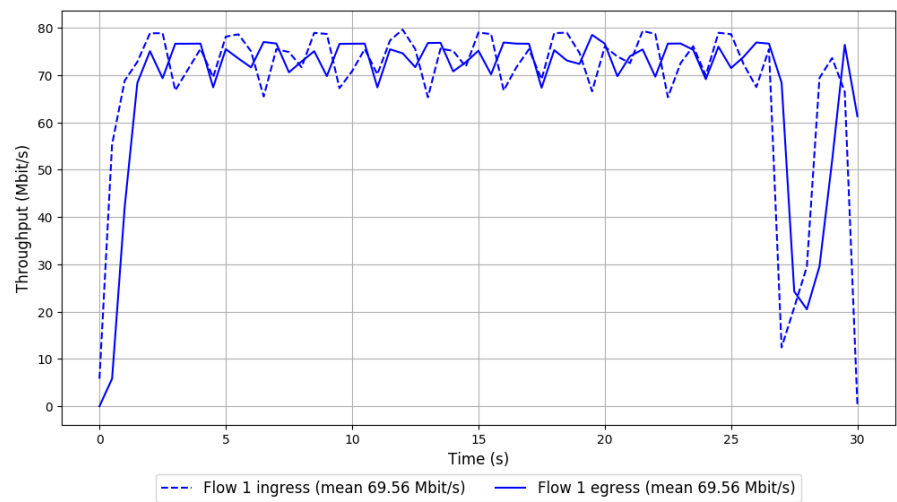



```
Run 1: Statistics of TaoVA-100x

Start at: 2019-01-25 10:41:32
End at: 2019-01-25 10:42:02
Local clock offset: -4.199 ms
Remote clock offset: 3.011 ms

# Below is generated by plot.py at 2019-01-25 12:58:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.56 Mbit/s
95th percentile per-packet one-way delay: 118.013 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 69.56 Mbit/s
95th percentile per-packet one-way delay: 118.013 ms
Loss rate: 0.59%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-01-25 11:06:31

End at: 2019-01-25 11:07:01

Local clock offset: -2.122 ms

Remote clock offset: 7.956 ms

Below is generated by plot.py at 2019-01-25 12:58:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.97 Mbit/s

95th percentile per-packet one-way delay: 114.244 ms

Loss rate: 0.31%

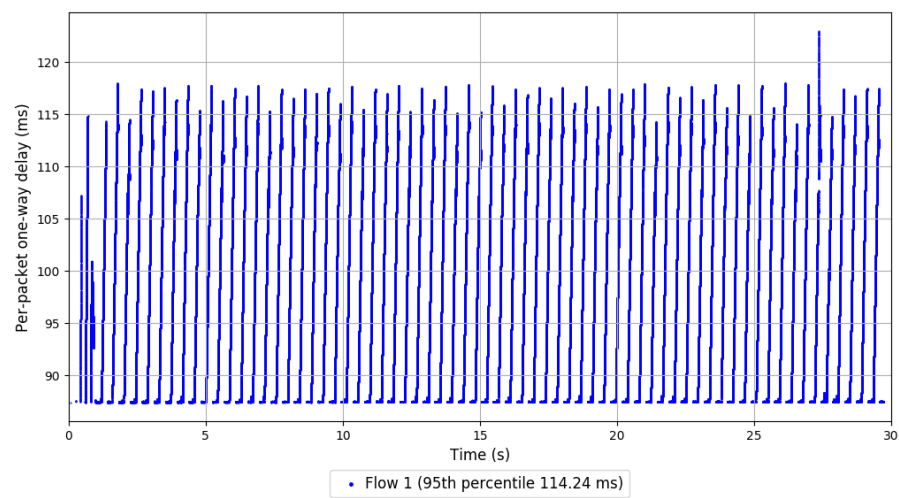
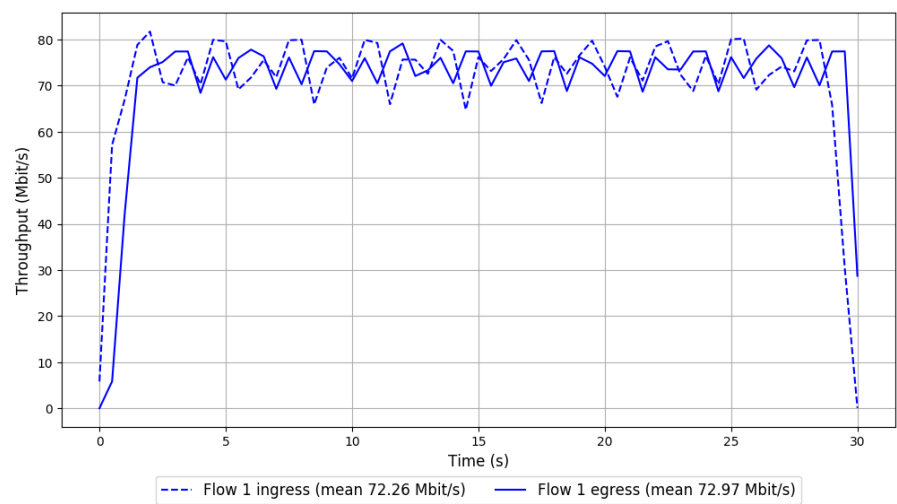
-- Flow 1:

Average throughput: 72.97 Mbit/s

95th percentile per-packet one-way delay: 114.244 ms

Loss rate: 0.31%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-01-25 11:31:29

End at: 2019-01-25 11:31:59

Local clock offset: -3.085 ms

Remote clock offset: 7.495 ms

Below is generated by plot.py at 2019-01-25 12:58:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.05 Mbit/s

95th percentile per-packet one-way delay: 114.920 ms

Loss rate: 0.65%

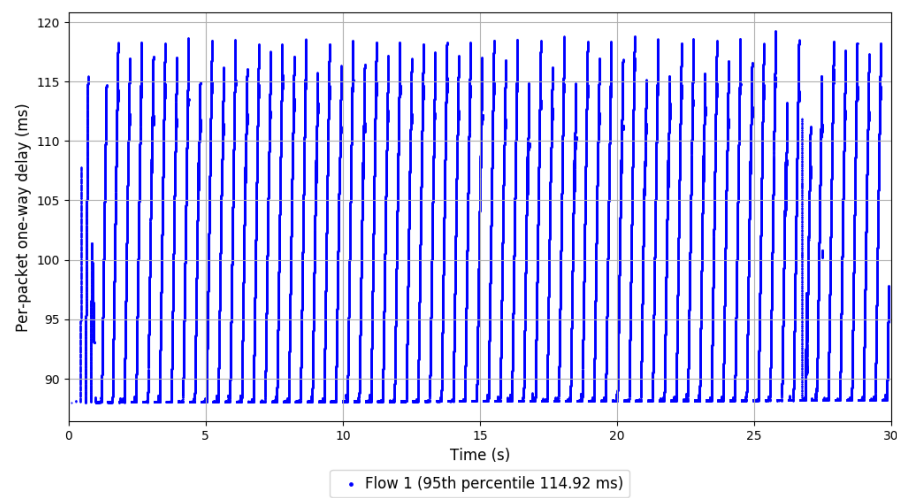
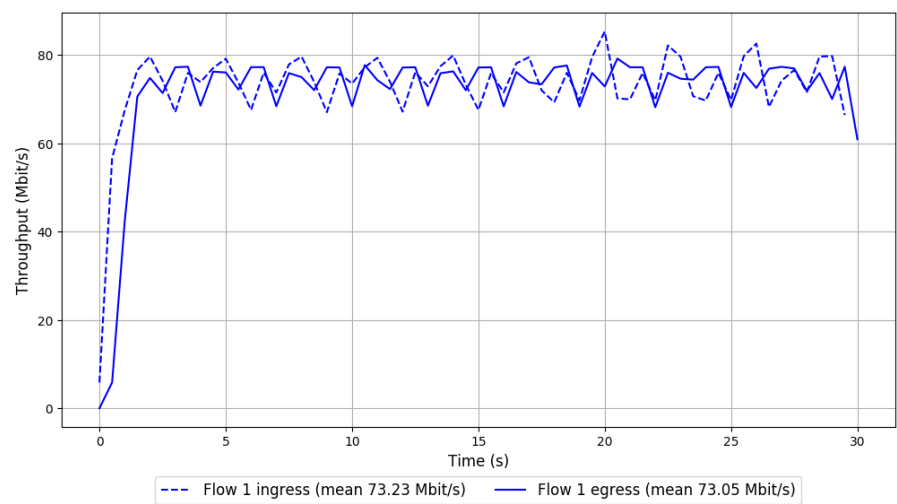
-- Flow 1:

Average throughput: 73.05 Mbit/s

95th percentile per-packet one-way delay: 114.920 ms

Loss rate: 0.65%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-01-25 11:56:28

End at: 2019-01-25 11:56:58

Local clock offset: -7.598 ms

Remote clock offset: 1.882 ms

Below is generated by plot.py at 2019-01-25 12:58:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.78 Mbit/s

95th percentile per-packet one-way delay: 119.015 ms

Loss rate: 0.87%

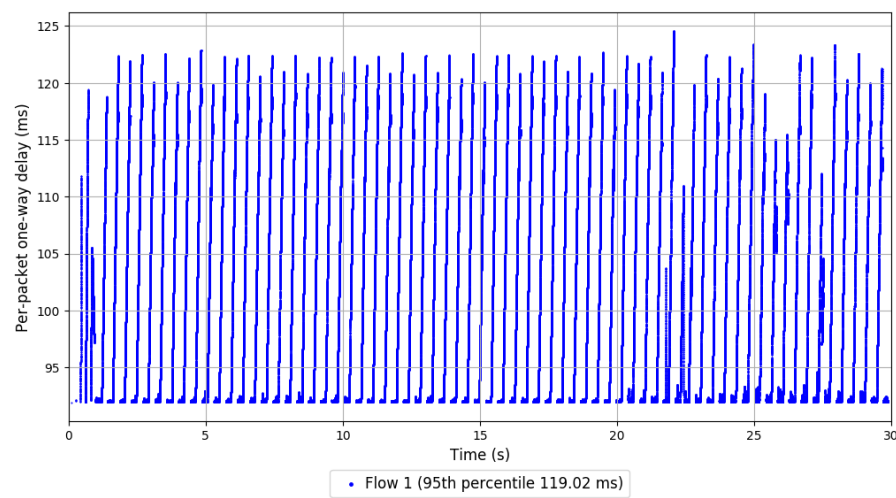
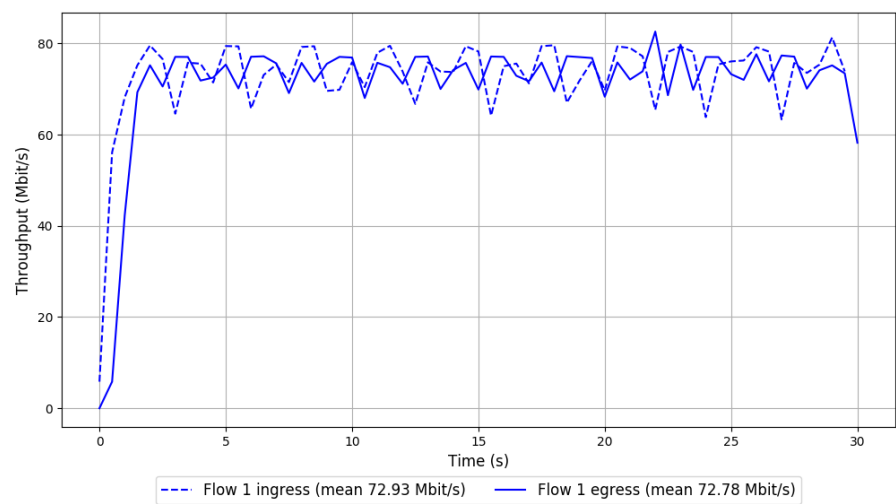
-- Flow 1:

Average throughput: 72.78 Mbit/s

95th percentile per-packet one-way delay: 119.015 ms

Loss rate: 0.87%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-01-25 12:21:28

End at: 2019-01-25 12:21:58

Local clock offset: -1.59 ms

Remote clock offset: 4.317 ms

Below is generated by plot.py at 2019-01-25 12:58:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.66 Mbit/s

95th percentile per-packet one-way delay: 118.690 ms

Loss rate: 0.63%

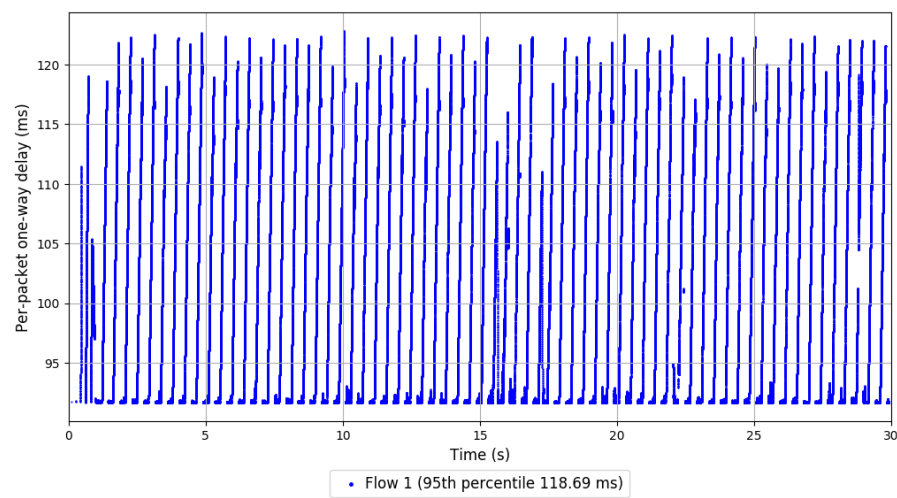
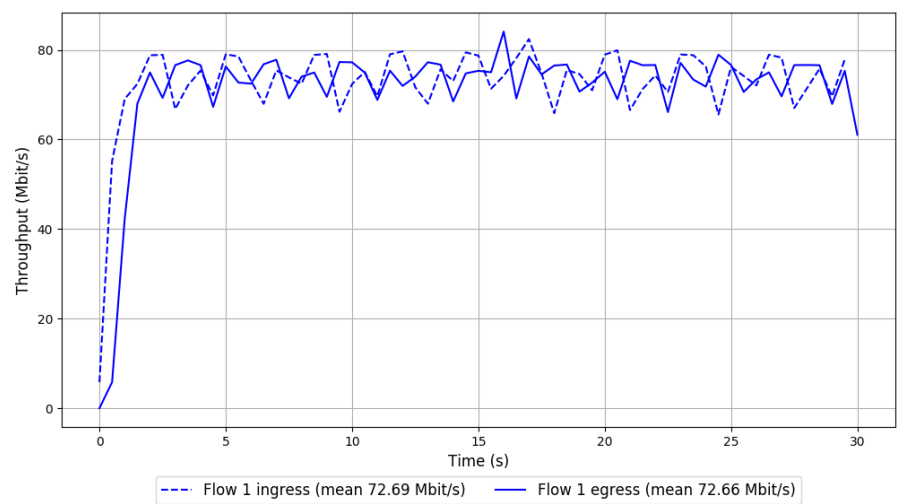
-- Flow 1:

Average throughput: 72.66 Mbit/s

95th percentile per-packet one-way delay: 118.690 ms

Loss rate: 0.63%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-01-25 10:46:22

End at: 2019-01-25 10:46:52

Local clock offset: -2.696 ms

Remote clock offset: 1.842 ms

Below is generated by plot.py at 2019-01-25 12:58:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.69 Mbit/s

95th percentile per-packet one-way delay: 172.209 ms

Loss rate: 0.66%

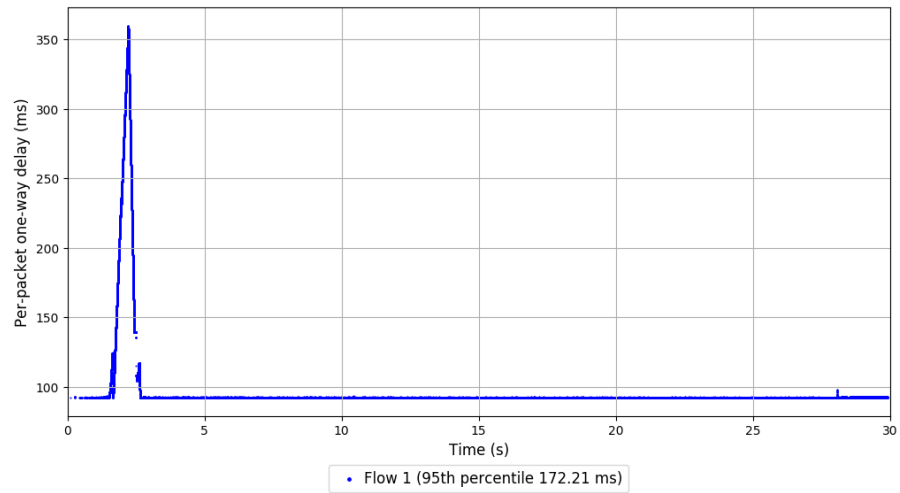
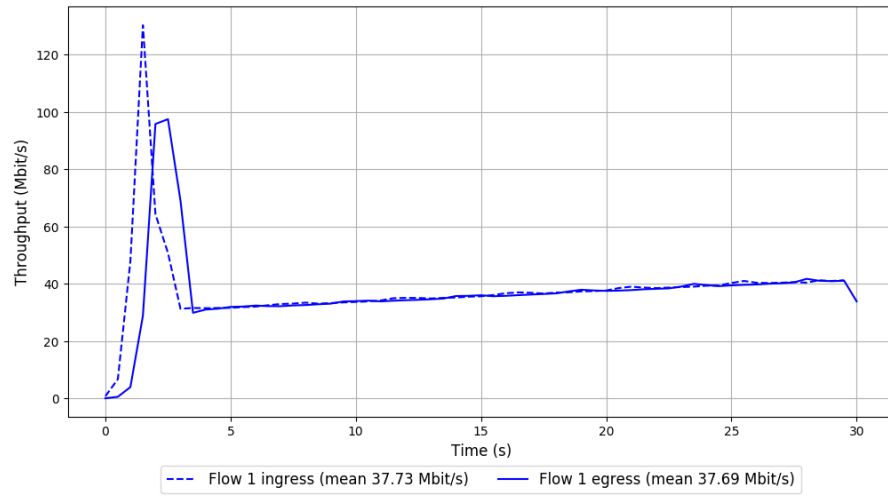
-- Flow 1:

Average throughput: 37.69 Mbit/s

95th percentile per-packet one-way delay: 172.209 ms

Loss rate: 0.66%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-01-25 11:11:20

End at: 2019-01-25 11:11:50

Local clock offset: -2.991 ms

Remote clock offset: 8.46 ms

Below is generated by plot.py at 2019-01-25 12:58:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.56 Mbit/s

95th percentile per-packet one-way delay: 165.691 ms

Loss rate: 0.66%

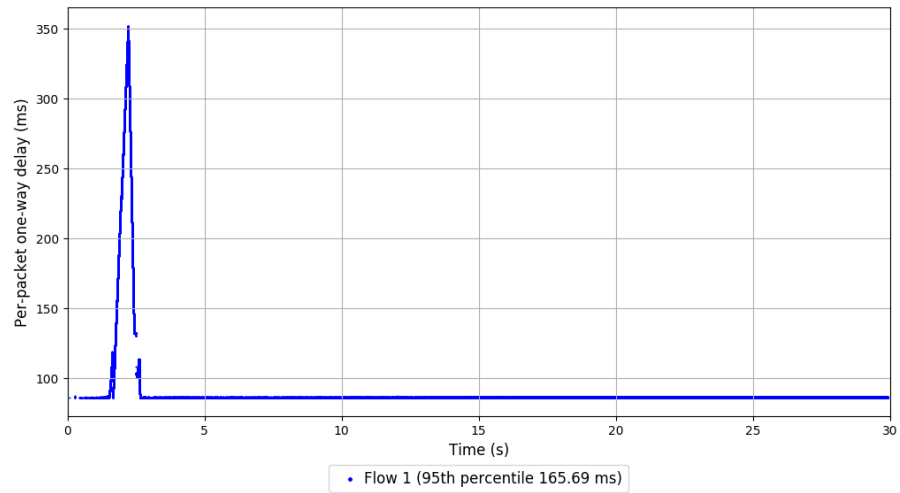
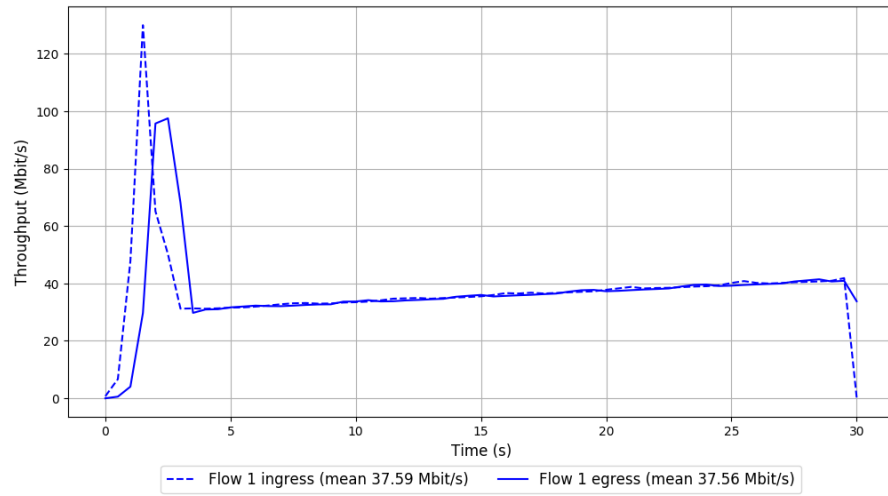
-- Flow 1:

Average throughput: 37.56 Mbit/s

95th percentile per-packet one-way delay: 165.691 ms

Loss rate: 0.66%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-01-25 11:36:19

End at: 2019-01-25 11:36:49

Local clock offset: -5.673 ms

Remote clock offset: 7.114 ms

Below is generated by plot.py at 2019-01-25 12:58:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.51 Mbit/s

95th percentile per-packet one-way delay: 167.481 ms

Loss rate: 0.67%

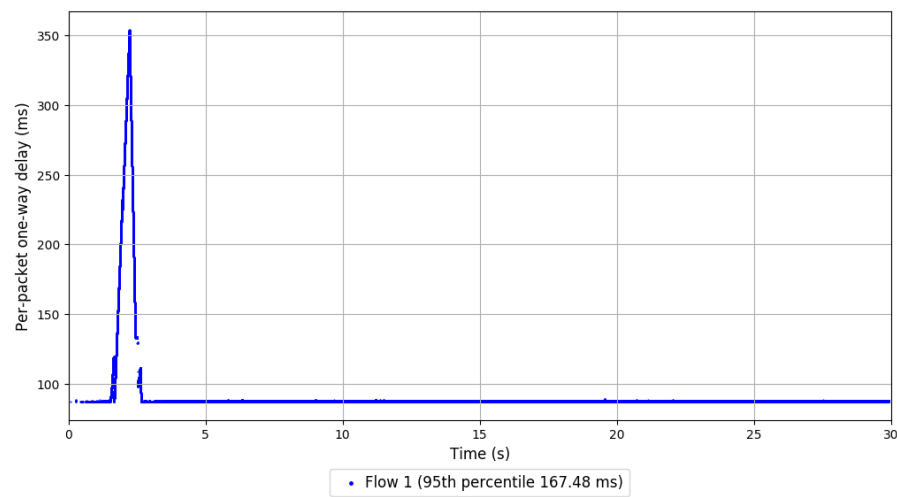
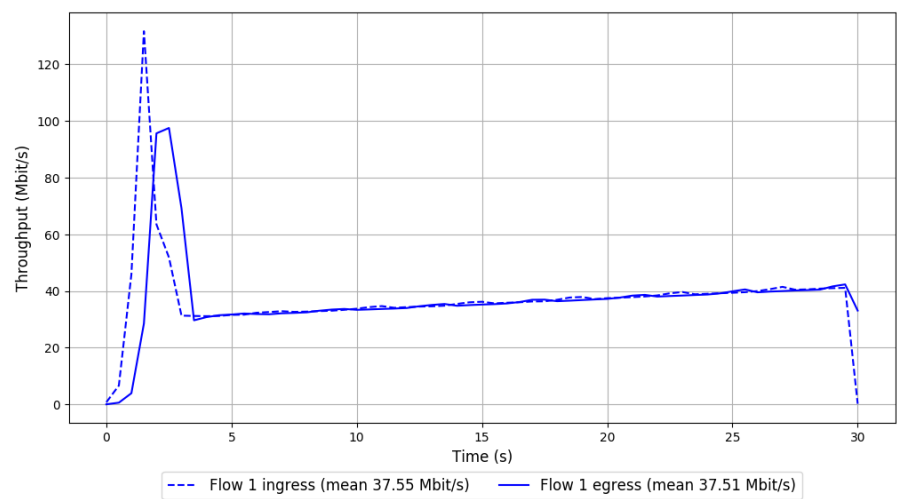
-- Flow 1:

Average throughput: 37.51 Mbit/s

95th percentile per-packet one-way delay: 167.481 ms

Loss rate: 0.67%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-01-25 12:01:17

End at: 2019-01-25 12:01:47

Local clock offset: -6.824 ms

Remote clock offset: 2.253 ms

Below is generated by plot.py at 2019-01-25 12:58:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.52 Mbit/s

95th percentile per-packet one-way delay: 170.617 ms

Loss rate: 0.67%

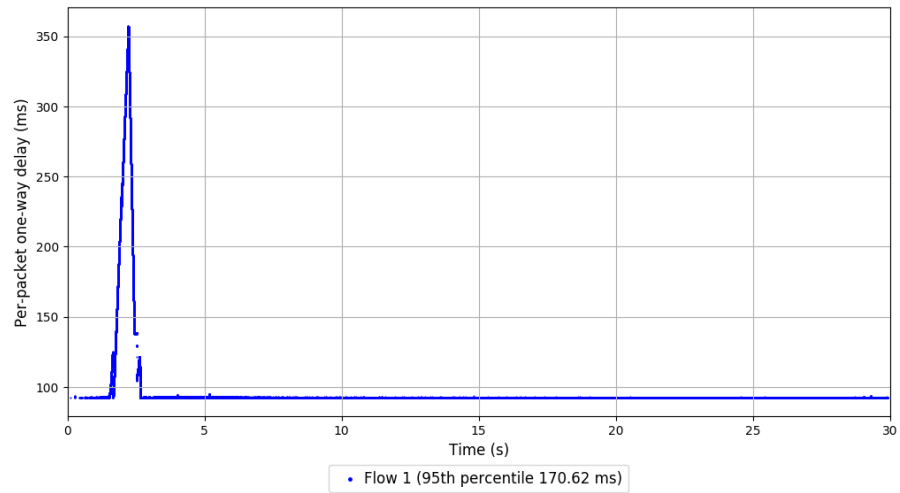
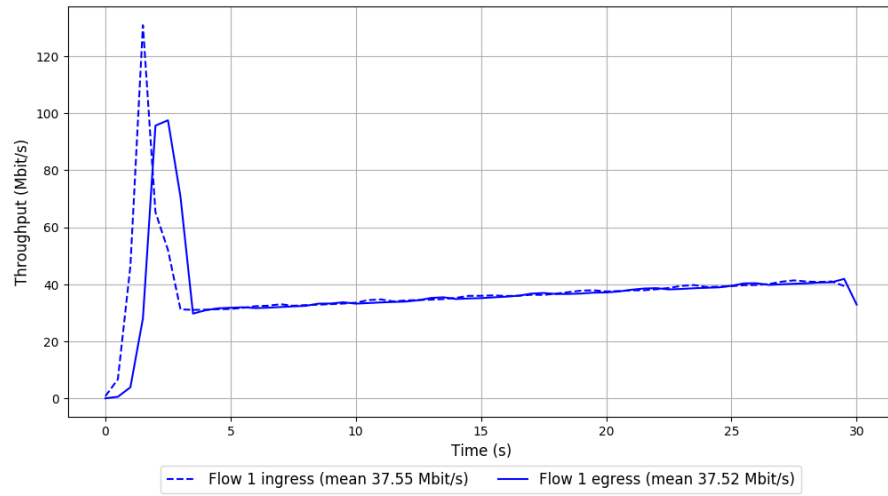
-- Flow 1:

Average throughput: 37.52 Mbit/s

95th percentile per-packet one-way delay: 170.617 ms

Loss rate: 0.67%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-01-25 12:26:18

End at: 2019-01-25 12:26:48

Local clock offset: -1.993 ms

Remote clock offset: 7.155 ms

Below is generated by plot.py at 2019-01-25 12:58:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.50 Mbit/s

95th percentile per-packet one-way delay: 166.622 ms

Loss rate: 0.67%

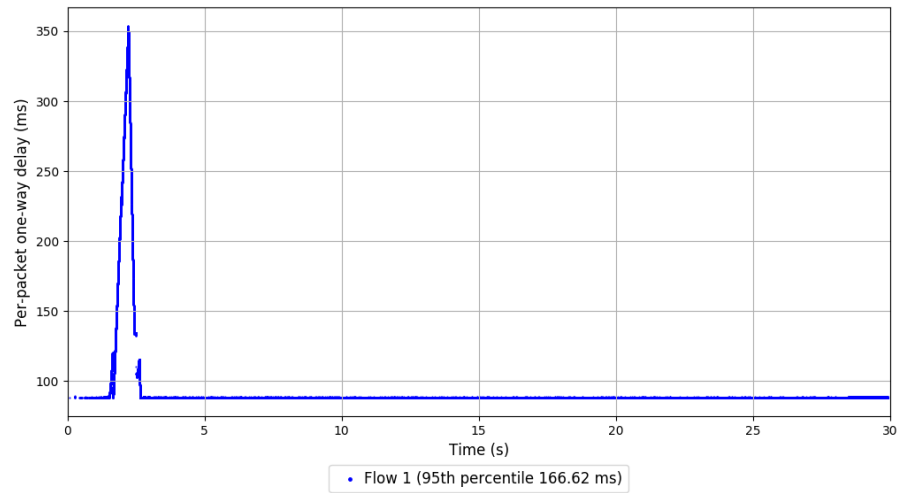
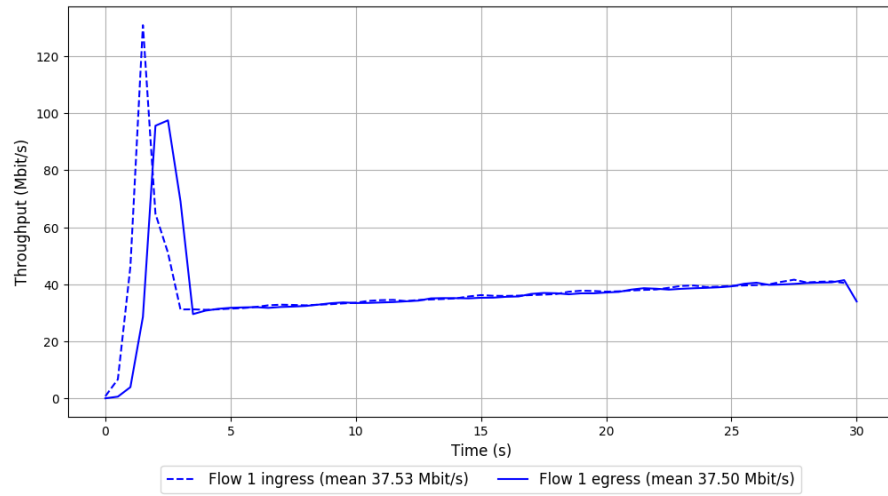
-- Flow 1:

Average throughput: 37.50 Mbit/s

95th percentile per-packet one-way delay: 166.622 ms

Loss rate: 0.67%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-01-25 10:54:31

End at: 2019-01-25 10:55:01

Local clock offset: -2.696 ms

Remote clock offset: 3.588 ms

Below is generated by plot.py at 2019-01-25 12:58:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.46 Mbit/s

95th percentile per-packet one-way delay: 398.072 ms

Loss rate: 1.21%

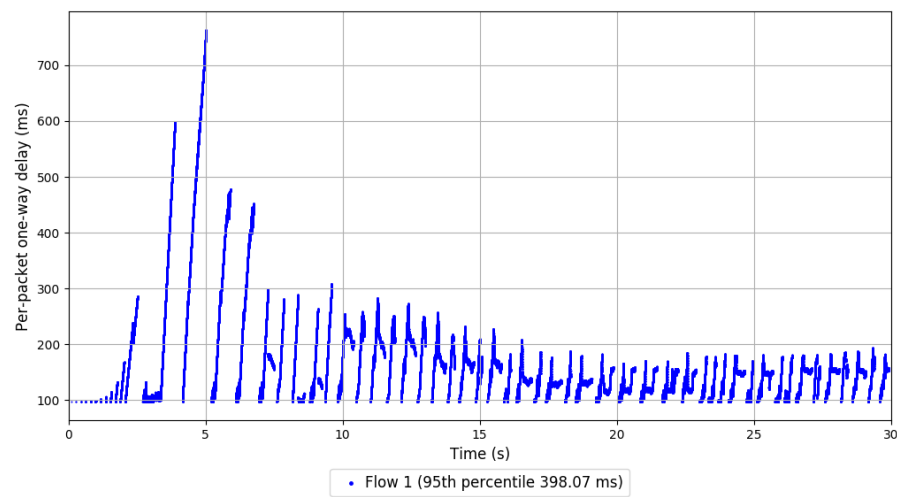
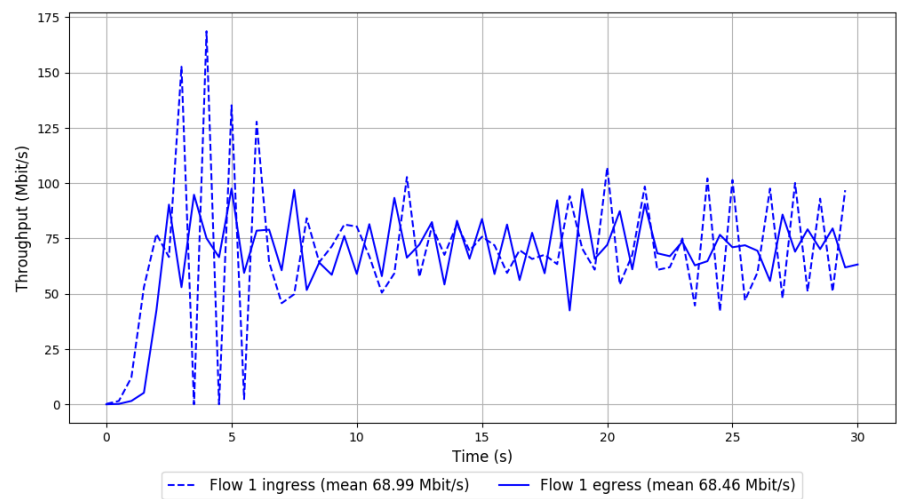
-- Flow 1:

Average throughput: 68.46 Mbit/s

95th percentile per-packet one-way delay: 398.072 ms

Loss rate: 1.21%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-01-25 11:19:29

End at: 2019-01-25 11:19:59

Local clock offset: -3.002 ms

Remote clock offset: 7.114 ms

Below is generated by plot.py at 2019-01-25 12:59:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.48 Mbit/s

95th percentile per-packet one-way delay: 271.881 ms

Loss rate: 0.88%

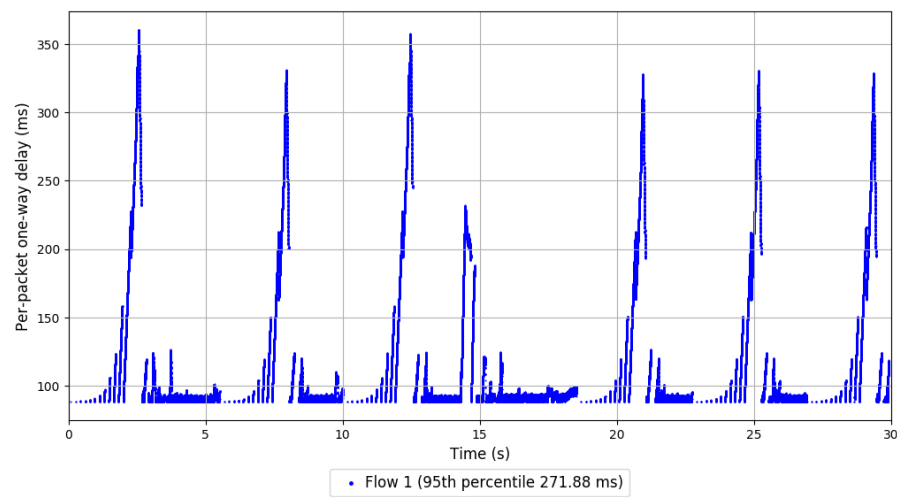
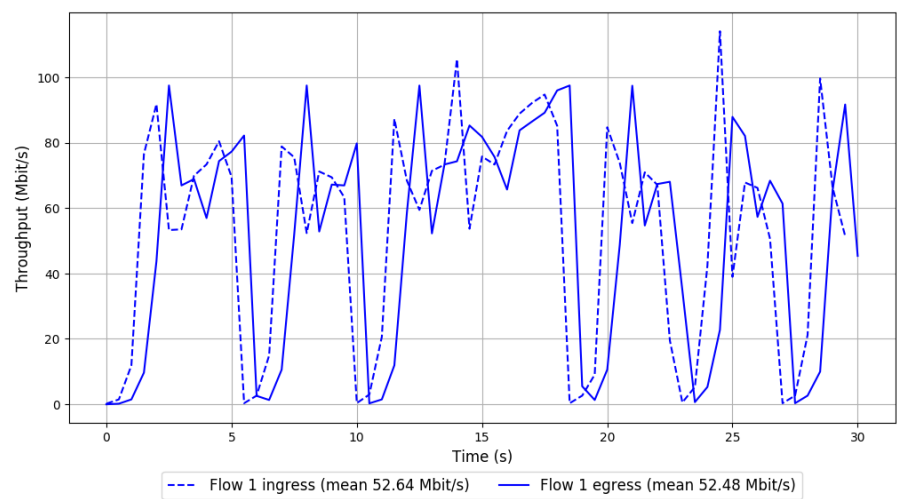
-- Flow 1:

Average throughput: 52.48 Mbit/s

95th percentile per-packet one-way delay: 271.881 ms

Loss rate: 0.88%

Run 2: Report of Verus — Data Link

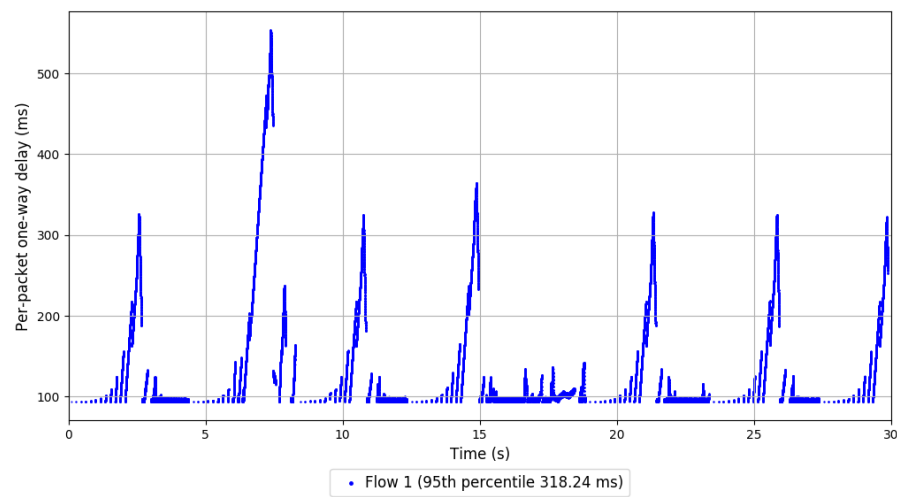
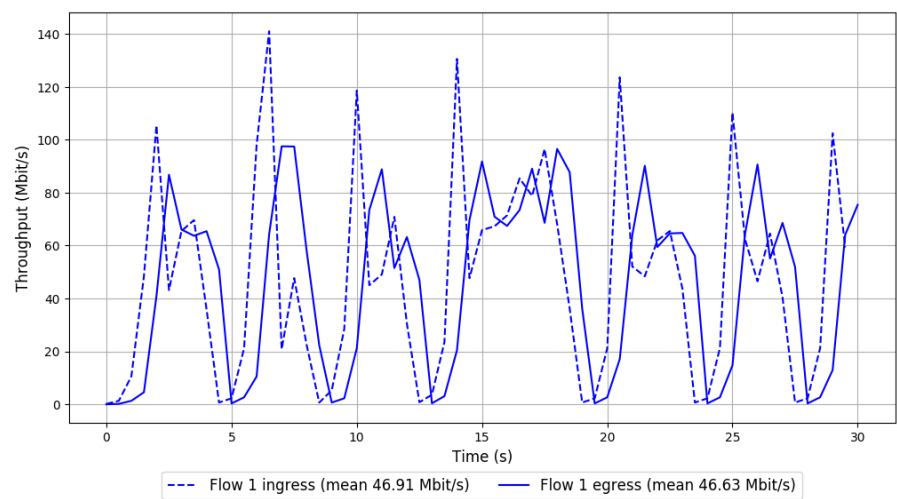


Run 3: Statistics of Verus

Start at: 2019-01-25 11:44:28
End at: 2019-01-25 11:44:58
Local clock offset: -6.474 ms
Remote clock offset: 6.928 ms

Below is generated by plot.py at 2019-01-25 12:59:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 46.63 Mbit/s
95th percentile per-packet one-way delay: 318.244 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 46.63 Mbit/s
95th percentile per-packet one-way delay: 318.244 ms
Loss rate: 1.18%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-01-25 12:09:27

End at: 2019-01-25 12:09:57

Local clock offset: -4.21 ms

Remote clock offset: 3.708 ms

Below is generated by plot.py at 2019-01-25 12:59:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.71 Mbit/s

95th percentile per-packet one-way delay: 246.583 ms

Loss rate: 0.16%

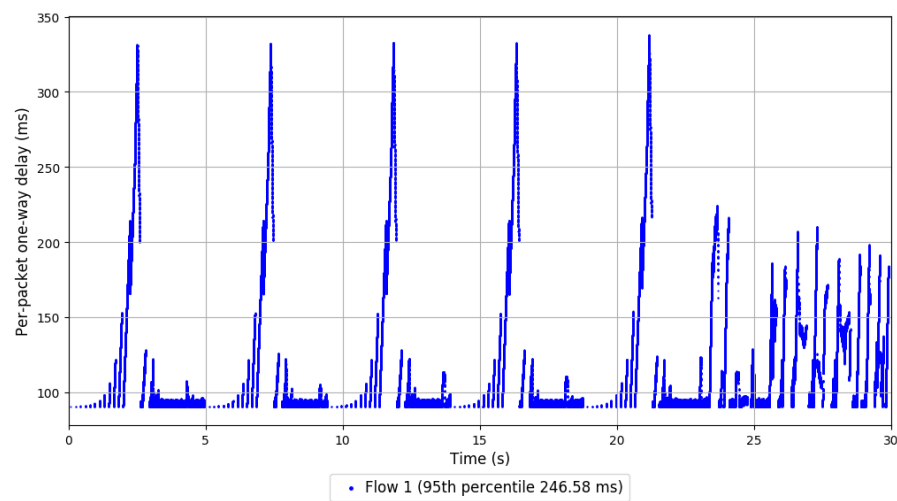
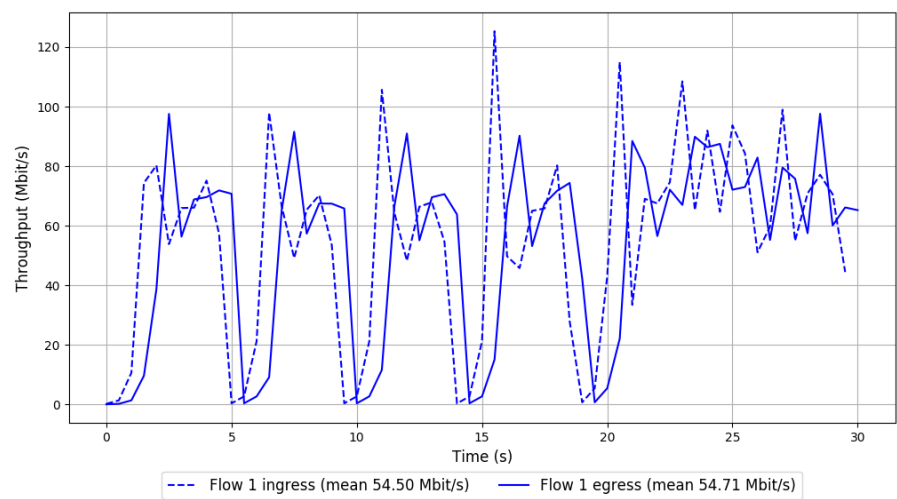
-- Flow 1:

Average throughput: 54.71 Mbit/s

95th percentile per-packet one-way delay: 246.583 ms

Loss rate: 0.16%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-01-25 12:34:27

End at: 2019-01-25 12:34:57

Local clock offset: -2.457 ms

Remote clock offset: 9.273 ms

Below is generated by plot.py at 2019-01-25 12:59:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.56 Mbit/s

95th percentile per-packet one-way delay: 287.258 ms

Loss rate: 0.47%

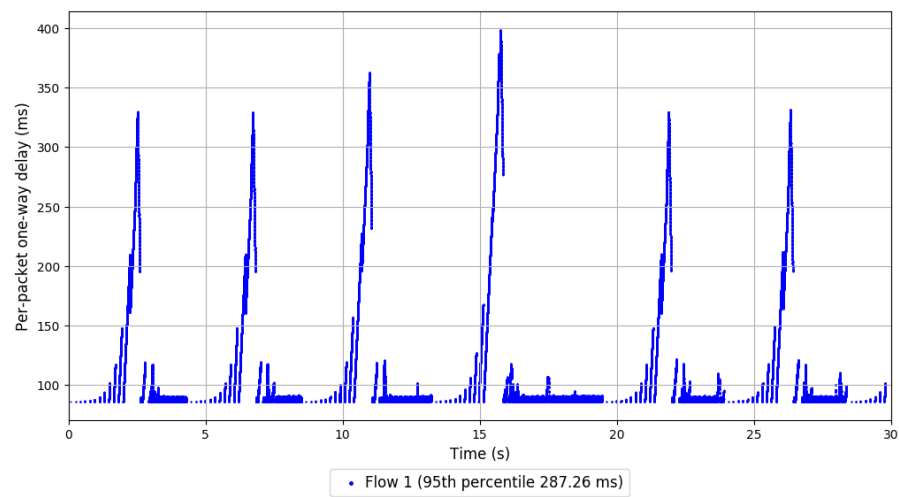
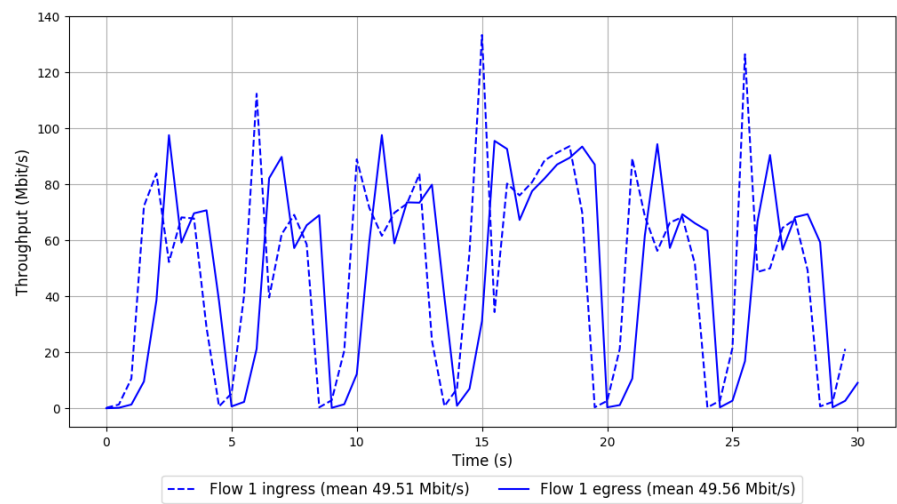
-- Flow 1:

Average throughput: 49.56 Mbit/s

95th percentile per-packet one-way delay: 287.258 ms

Loss rate: 0.47%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-01-25 10:49:50

End at: 2019-01-25 10:50:20

Local clock offset: -2.34 ms

Remote clock offset: 2.122 ms

Below is generated by plot.py at 2019-01-25 12:59:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.00 Mbit/s

95th percentile per-packet one-way delay: 101.742 ms

Loss rate: 0.71%

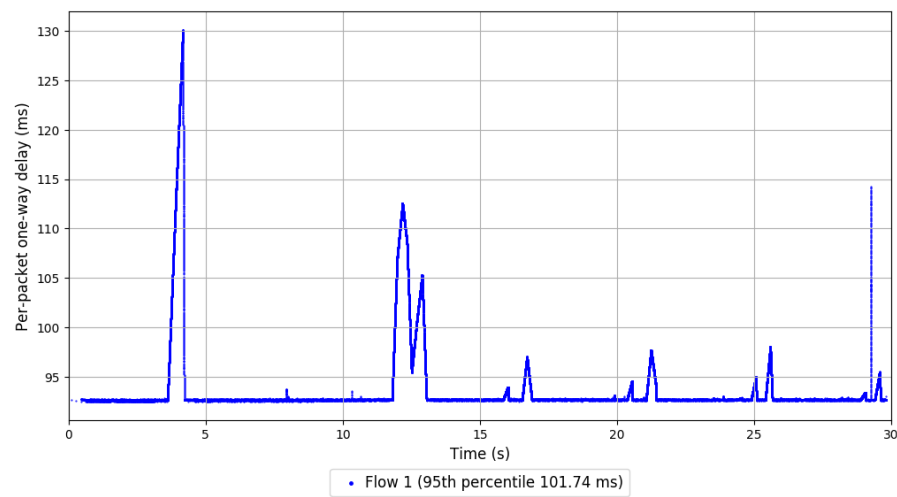
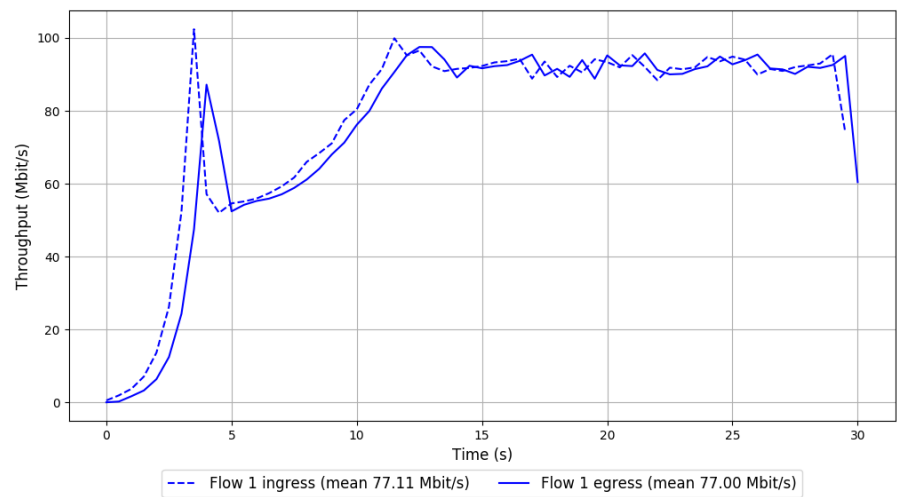
-- Flow 1:

Average throughput: 77.00 Mbit/s

95th percentile per-packet one-way delay: 101.742 ms

Loss rate: 0.71%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-01-25 11:14:49

End at: 2019-01-25 11:15:19

Local clock offset: -3.018 ms

Remote clock offset: 8.073 ms

Below is generated by plot.py at 2019-01-25 12:59:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.72 Mbit/s

95th percentile per-packet one-way delay: 95.159 ms

Loss rate: 0.72%

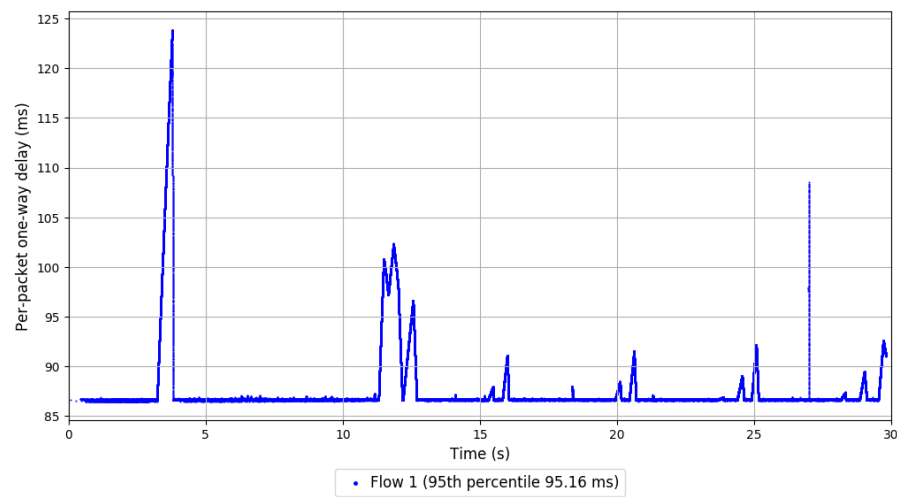
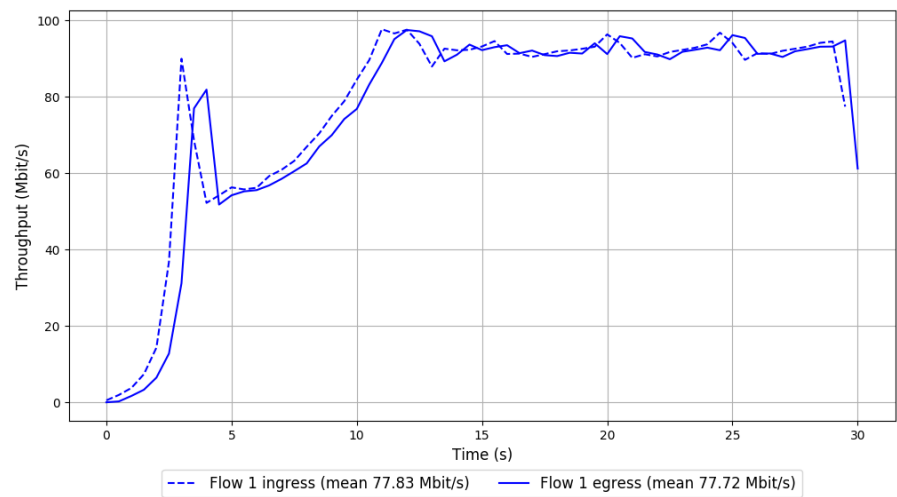
-- Flow 1:

Average throughput: 77.72 Mbit/s

95th percentile per-packet one-way delay: 95.159 ms

Loss rate: 0.72%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-01-25 11:39:47

End at: 2019-01-25 11:40:17

Local clock offset: -6.52 ms

Remote clock offset: 2.125 ms

Below is generated by plot.py at 2019-01-25 12:59:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.78 Mbit/s

95th percentile per-packet one-way delay: 123.614 ms

Loss rate: 0.80%

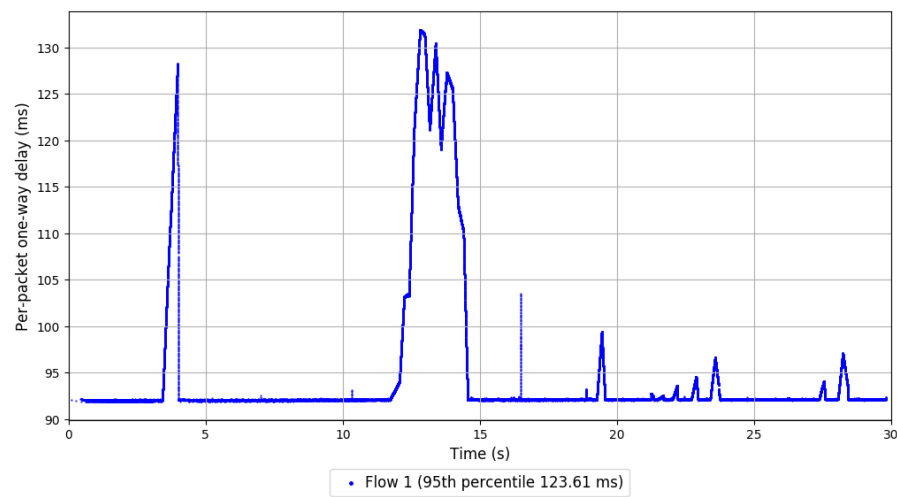
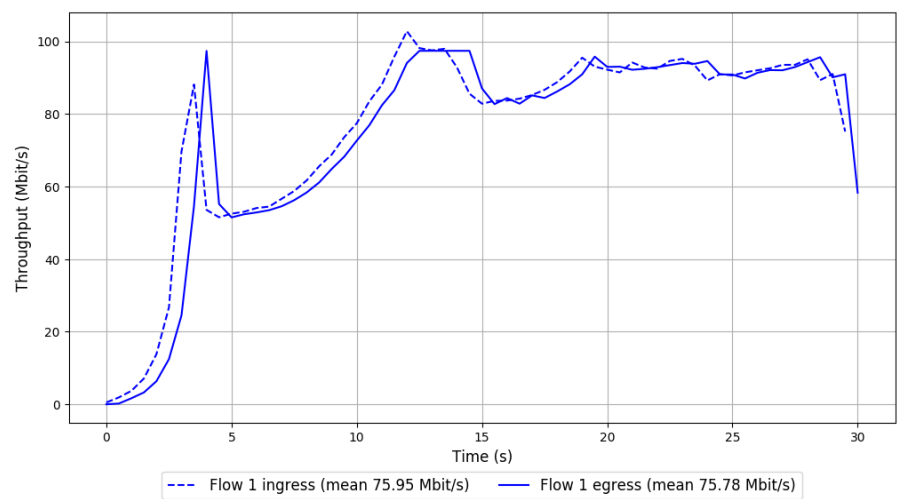
-- Flow 1:

Average throughput: 75.78 Mbit/s

95th percentile per-packet one-way delay: 123.614 ms

Loss rate: 0.80%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-01-25 12:04:46

End at: 2019-01-25 12:05:16

Local clock offset: -5.729 ms

Remote clock offset: 7.41 ms

Below is generated by plot.py at 2019-01-25 12:59:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.97 Mbit/s

95th percentile per-packet one-way delay: 96.255 ms

Loss rate: 0.71%

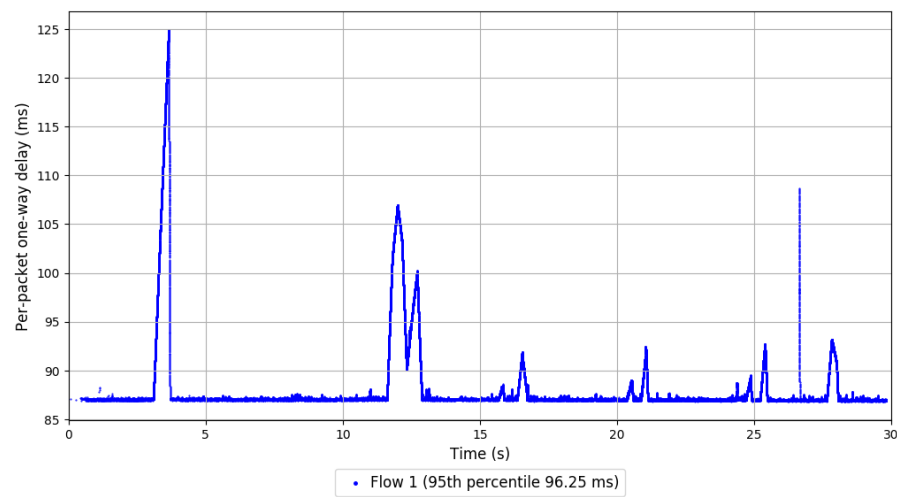
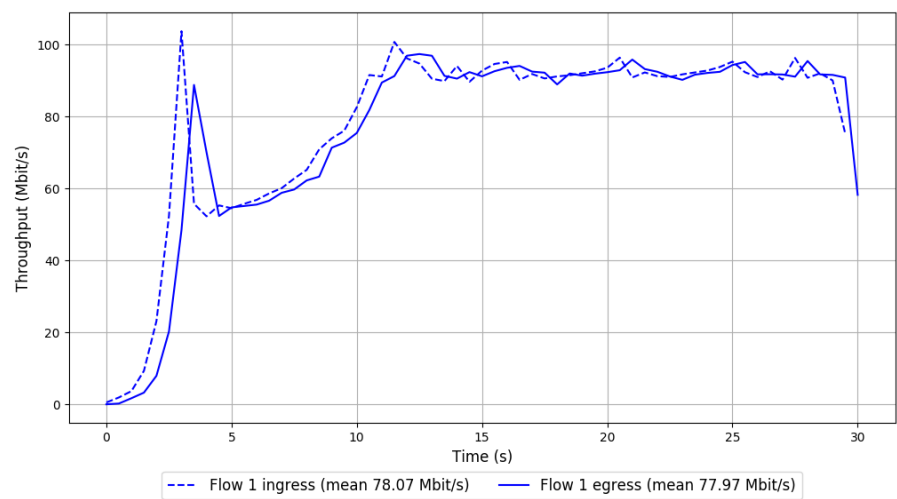
-- Flow 1:

Average throughput: 77.97 Mbit/s

95th percentile per-packet one-way delay: 96.255 ms

Loss rate: 0.71%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-01-25 12:29:46

End at: 2019-01-25 12:30:16

Local clock offset: -1.72 ms

Remote clock offset: 7.259 ms

Below is generated by plot.py at 2019-01-25 12:59:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.25 Mbit/s

95th percentile per-packet one-way delay: 96.640 ms

Loss rate: 0.67%

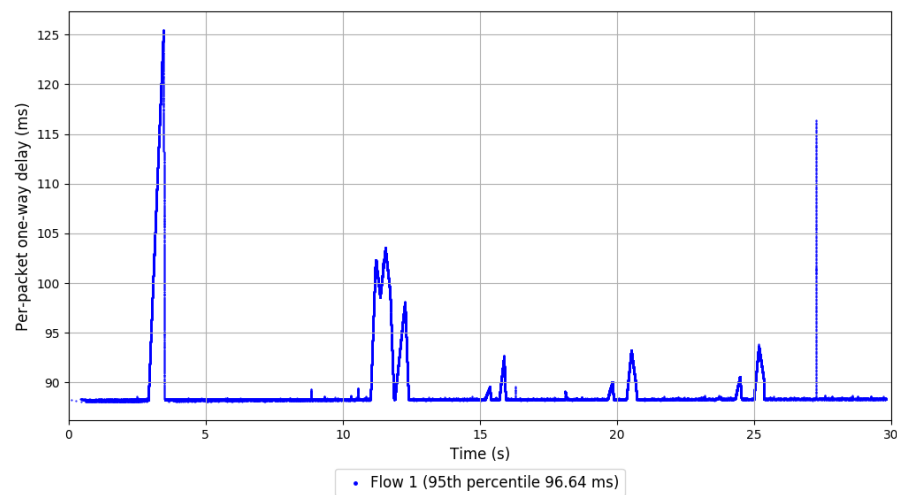
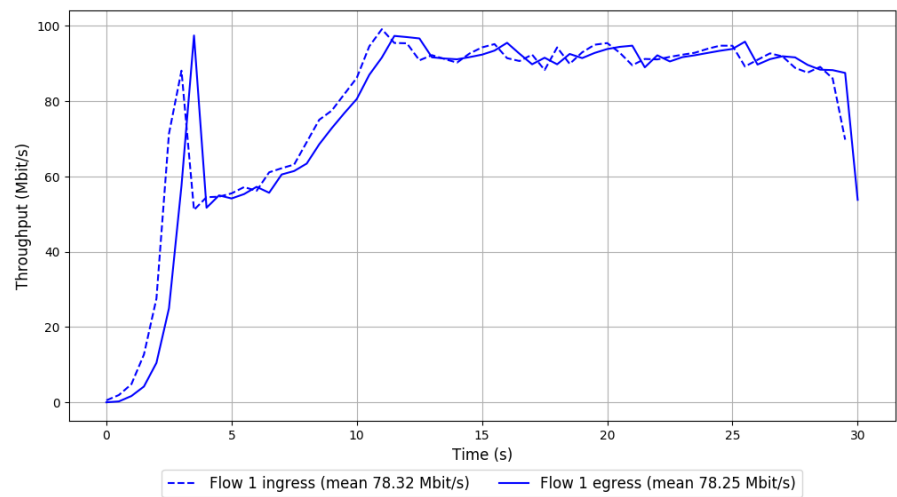
-- Flow 1:

Average throughput: 78.25 Mbit/s

95th percentile per-packet one-way delay: 96.640 ms

Loss rate: 0.67%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-01-25 10:52:12

End at: 2019-01-25 10:52:42

Local clock offset: -2.873 ms

Remote clock offset: 8.379 ms

Below is generated by plot.py at 2019-01-25 12:59:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 86.374 ms

Loss rate: 0.35%

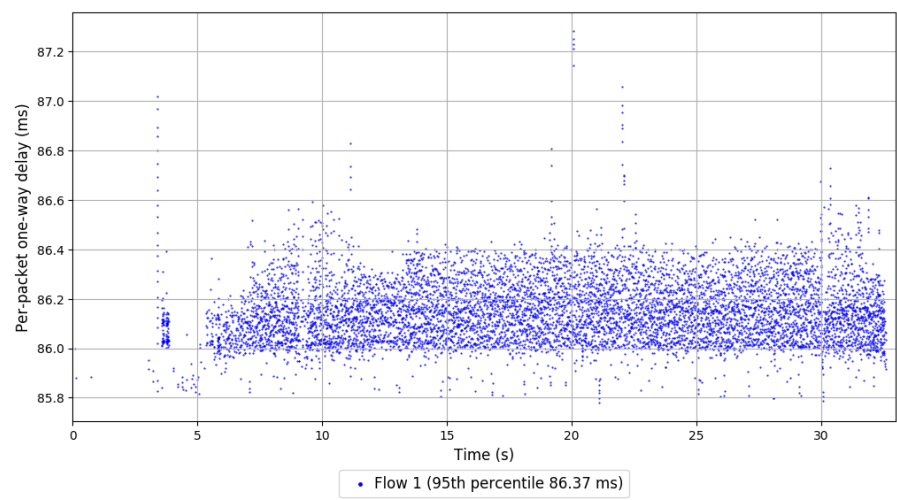
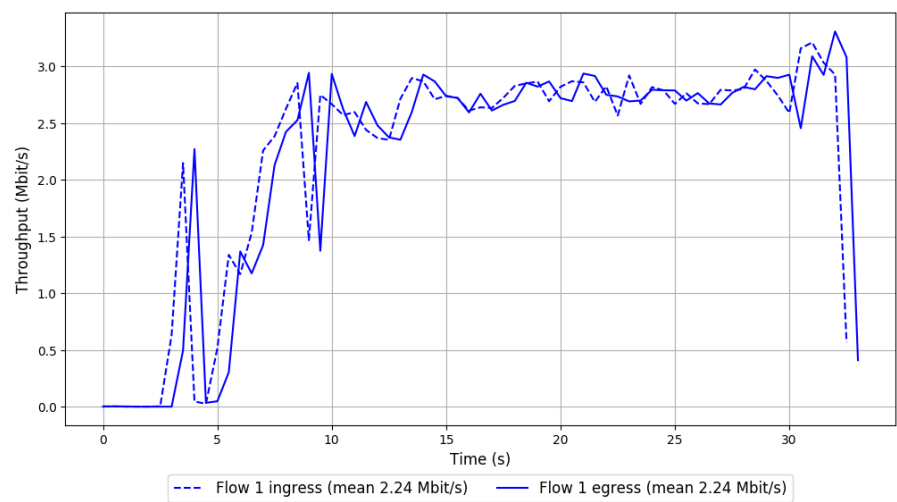
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 86.374 ms

Loss rate: 0.35%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-01-25 11:17:10

End at: 2019-01-25 11:17:40

Local clock offset: -3.011 ms

Remote clock offset: 9.359 ms

Below is generated by plot.py at 2019-01-25 12:59:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 86.346 ms

Loss rate: 0.26%

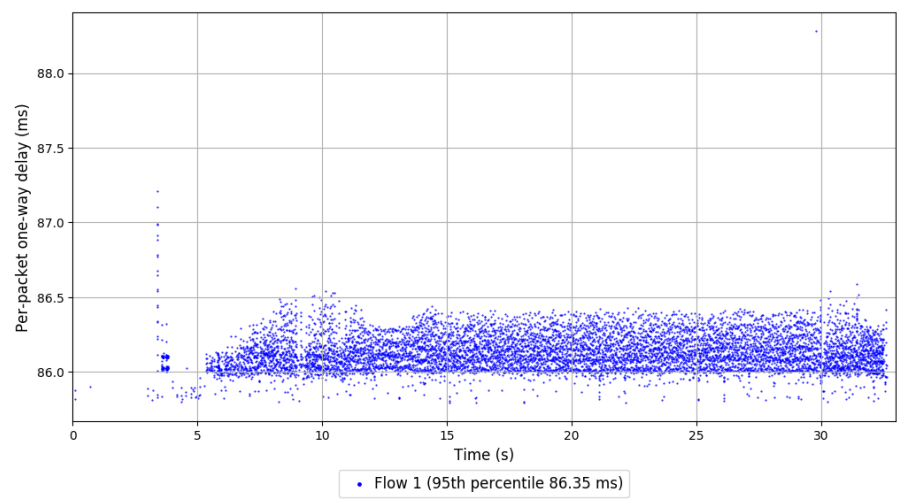
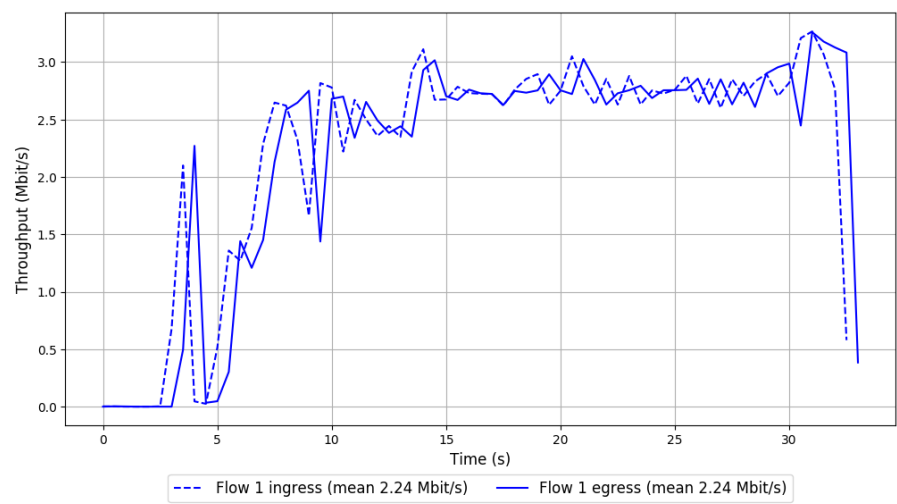
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 86.346 ms

Loss rate: 0.26%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-01-25 11:42:09

End at: 2019-01-25 11:42:39

Local clock offset: -6.878 ms

Remote clock offset: 3.255 ms

Below is generated by plot.py at 2019-01-25 12:59:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 91.326 ms

Loss rate: 0.37%

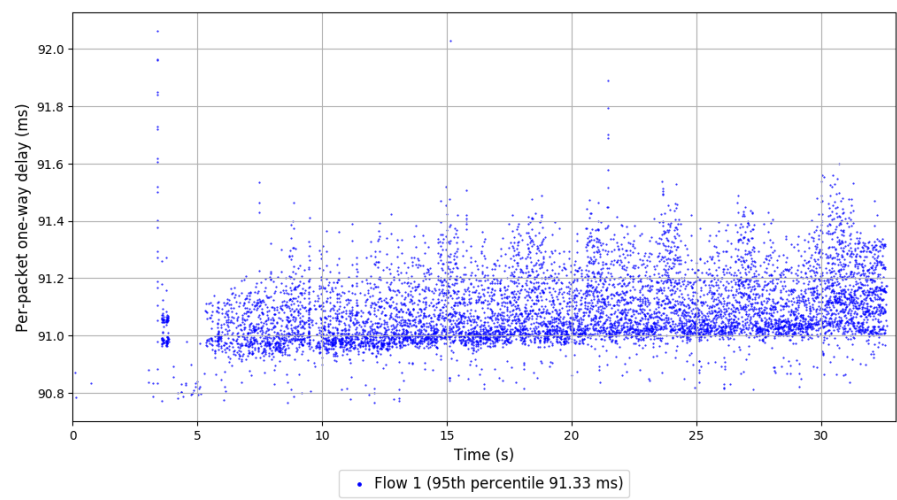
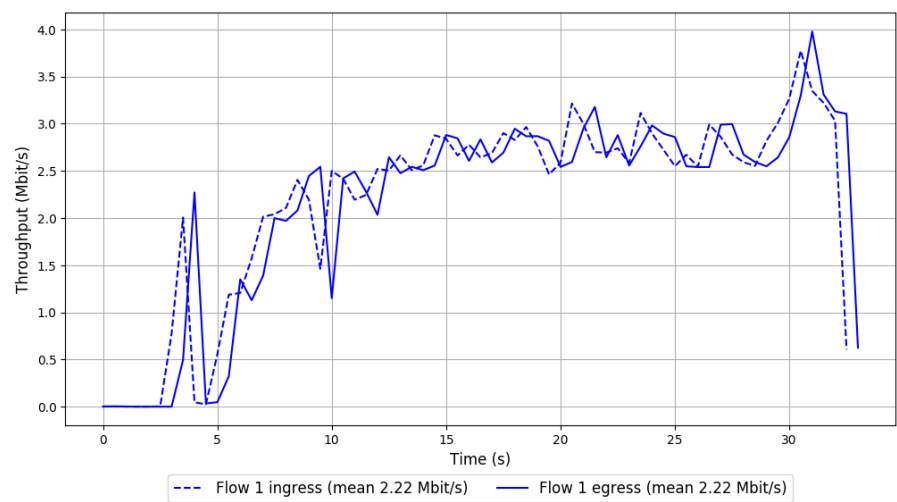
-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 91.326 ms

Loss rate: 0.37%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-01-25 12:07:08

End at: 2019-01-25 12:07:38

Local clock offset: -4.907 ms

Remote clock offset: 3.794 ms

Below is generated by plot.py at 2019-01-25 12:59:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 96.621 ms

Loss rate: 0.57%

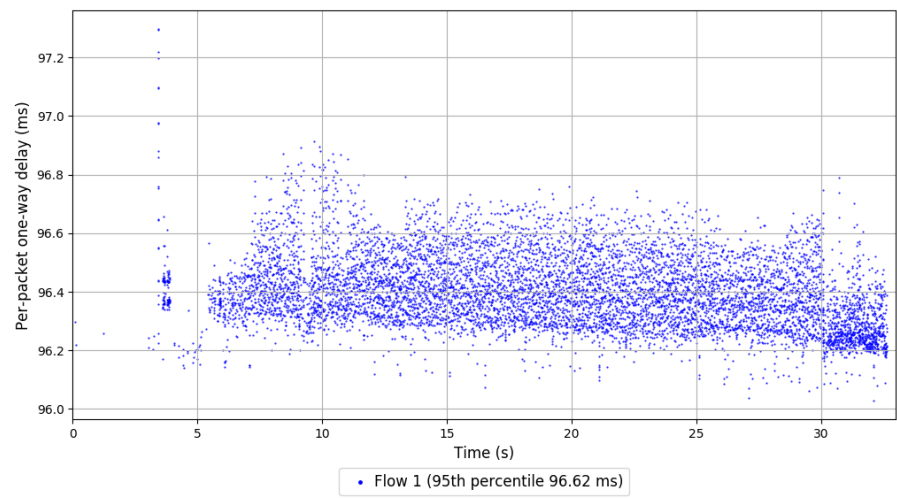
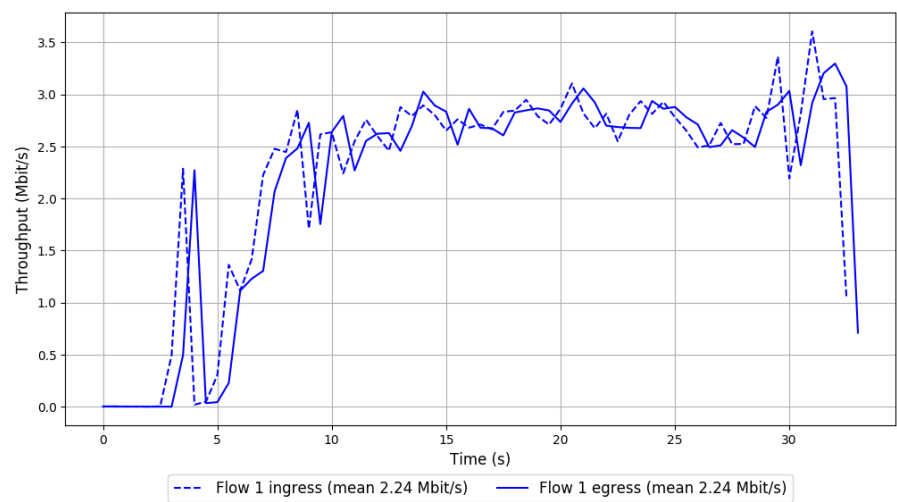
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 96.621 ms

Loss rate: 0.57%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-01-25 12:32:08

End at: 2019-01-25 12:32:38

Local clock offset: -1.425 ms

Remote clock offset: 8.271 ms

Below is generated by plot.py at 2019-01-25 12:59:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 87.730 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 87.730 ms

Loss rate: 0.32%

Run 5: Report of WebRTC media — Data Link

