

Pantheon Report

Generated at 2019-02-12 00:43:56 (UTC).

Data path: Brazil on p4p1 (*remote*) → AWS Brazil 1 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.

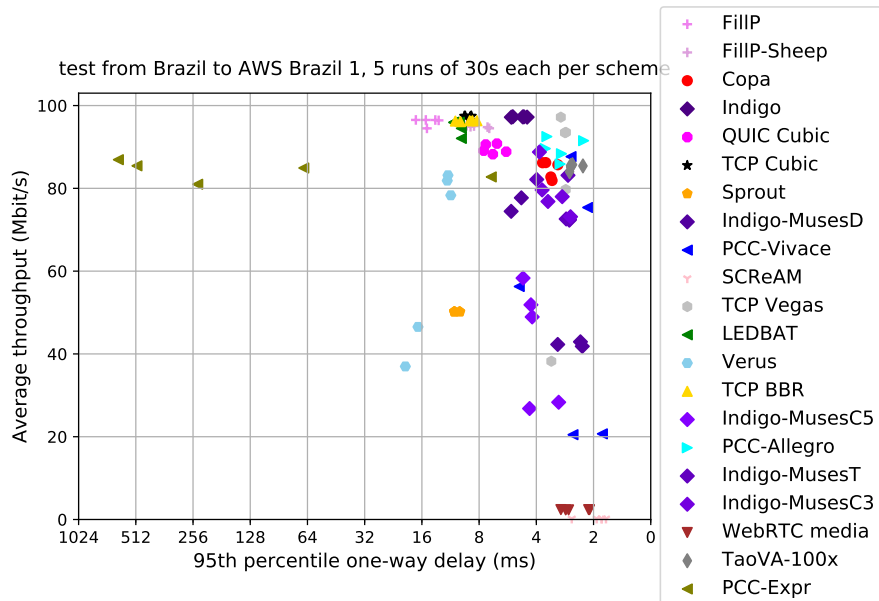
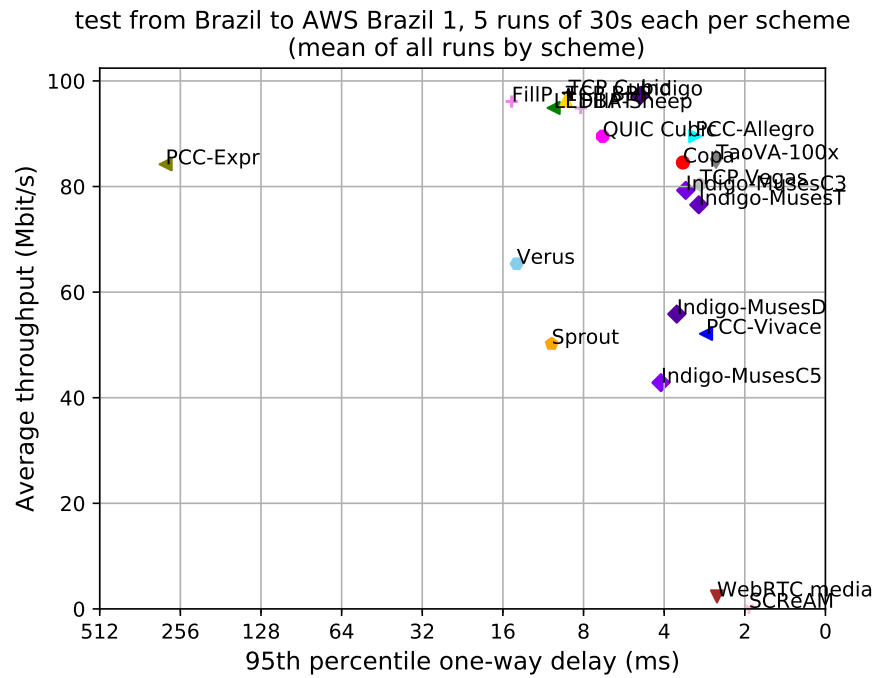
System info:

```
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 @ 2601c92e4aa9d58d38dc4dfe0ecd9c077e64d
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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	96.28	9.31	0.11
Copa	5	84.55	3.40	0.02
TCP Cubic	5	97.42	9.11	0.06
FillP	5	96.09	14.84	0.16
FillP-Sheep	5	94.87	8.20	0.03
Indigo	5	97.25	4.91	0.03
Indigo-MusesC3	5	79.27	3.32	0.02
Indigo-MusesC5	5	42.85	4.11	0.02
Indigo-MusesD	5	55.84	3.59	0.02
Indigo-MusesT	5	76.54	2.97	0.03
LEDBAT	5	94.89	10.34	0.09
PCC-Allegro	5	89.57	3.06	0.02
PCC-Expr	5	84.21	290.66	0.72
QUIC Cubic	5	89.52	6.79	0.03
SCReAM	5	0.22	1.90	0.00
Sprout	5	50.21	10.52	0.07
TaoVA-100x	5	85.16	2.56	0.02
TCP Vegas	5	80.42	2.95	0.02
Verus	5	65.37	14.21	0.05
PCC-Vivace	5	52.10	2.79	0.02
WebRTC media	5	2.37	2.54	0.01

Run 1: Statistics of TCP BBR

Start at: 2019-02-11 22:34:27

End at: 2019-02-11 22:34:57

Local clock offset: -6.924 ms

Remote clock offset: 1.436 ms

Below is generated by plot.py at 2019-02-12 00:31:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.34 Mbit/s

95th percentile per-packet one-way delay: 8.680 ms

Loss rate: 0.05%

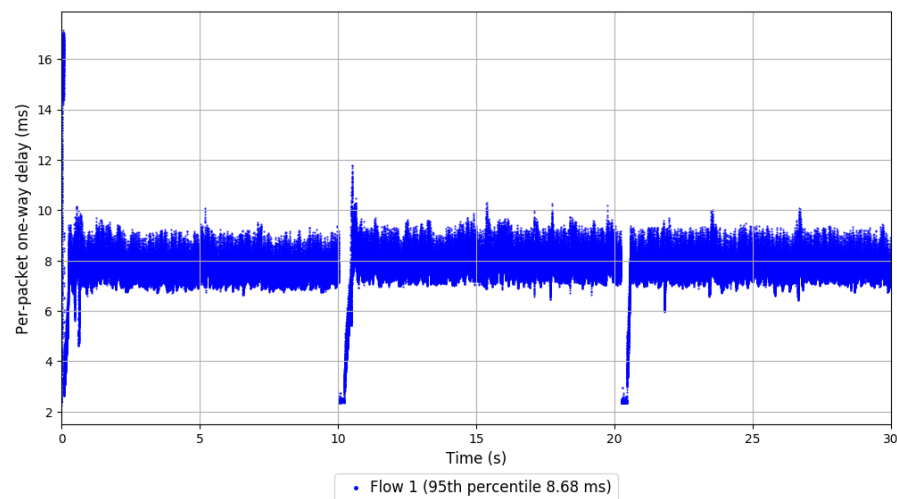
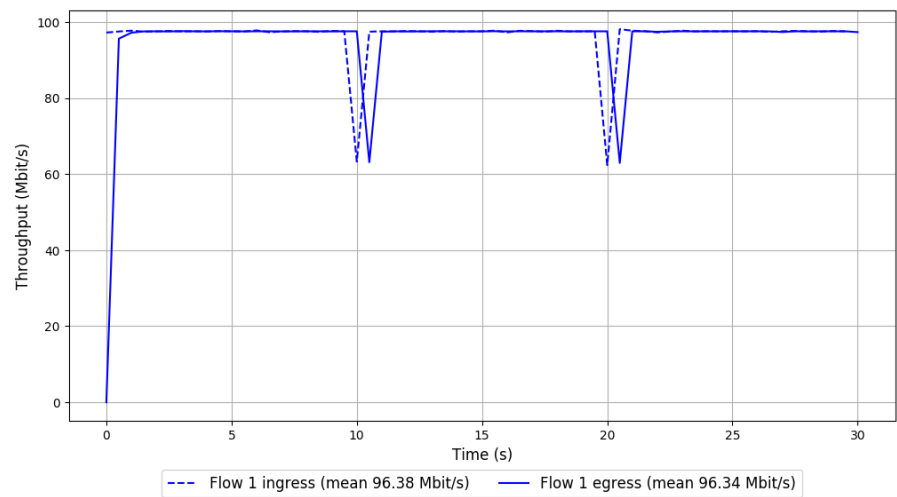
-- Flow 1:

Average throughput: 96.34 Mbit/s

95th percentile per-packet one-way delay: 8.680 ms

Loss rate: 0.05%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-02-11 22:58:05

End at: 2019-02-11 22:58:35

Local clock offset: -6.721 ms

Remote clock offset: 1.307 ms

Below is generated by plot.py at 2019-02-12 00:31:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.34 Mbit/s

95th percentile per-packet one-way delay: 8.966 ms

Loss rate: 0.03%

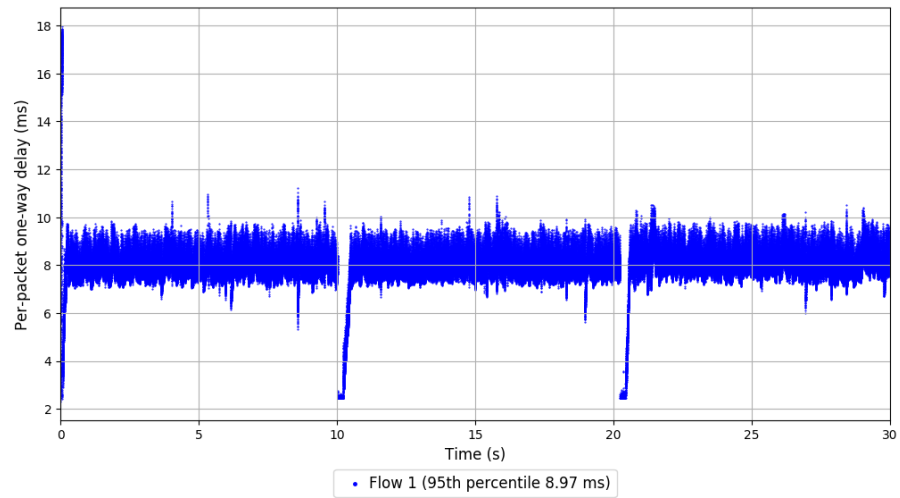
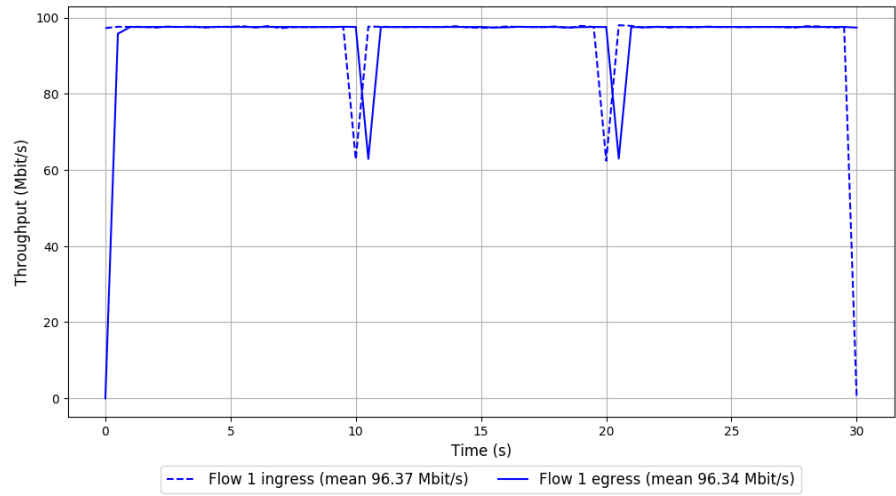
-- Flow 1:

Average throughput: 96.34 Mbit/s

95th percentile per-packet one-way delay: 8.966 ms

Loss rate: 0.03%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-02-11 23:21:46

End at: 2019-02-11 23:22:16

Local clock offset: -6.758 ms

Remote clock offset: 1.176 ms

Below is generated by plot.py at 2019-02-12 00:31:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.34 Mbit/s

95th percentile per-packet one-way delay: 8.214 ms

Loss rate: 0.04%

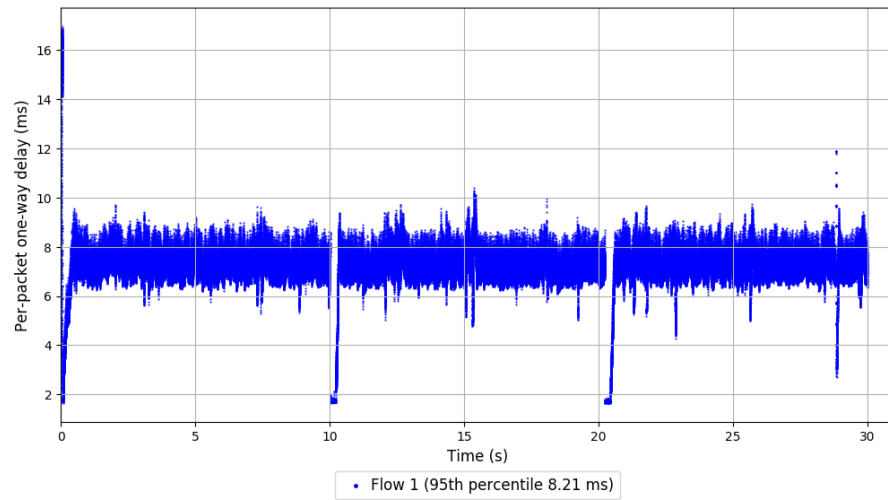
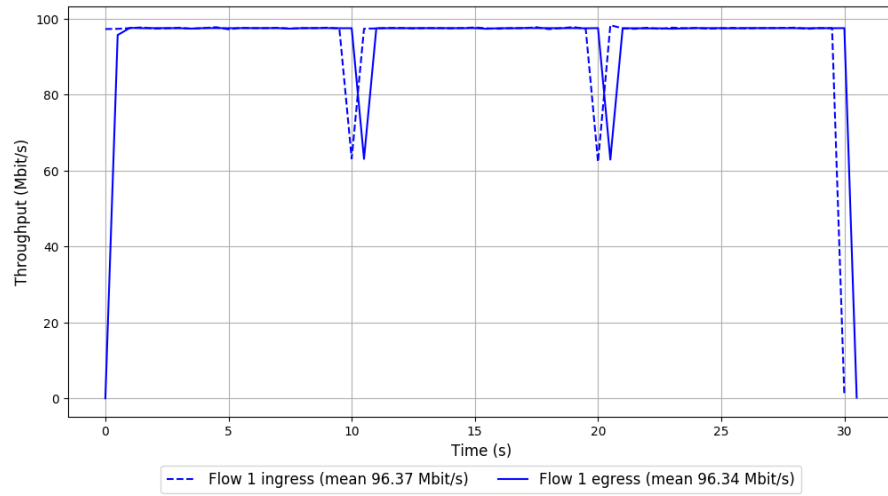
-- Flow 1:

Average throughput: 96.34 Mbit/s

95th percentile per-packet one-way delay: 8.214 ms

Loss rate: 0.04%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-02-11 23:45:24

End at: 2019-02-11 23:45:54

Local clock offset: -5.814 ms

Remote clock offset: 0.935 ms

Below is generated by plot.py at 2019-02-12 00:31:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 10.667 ms

Loss rate: 0.25%

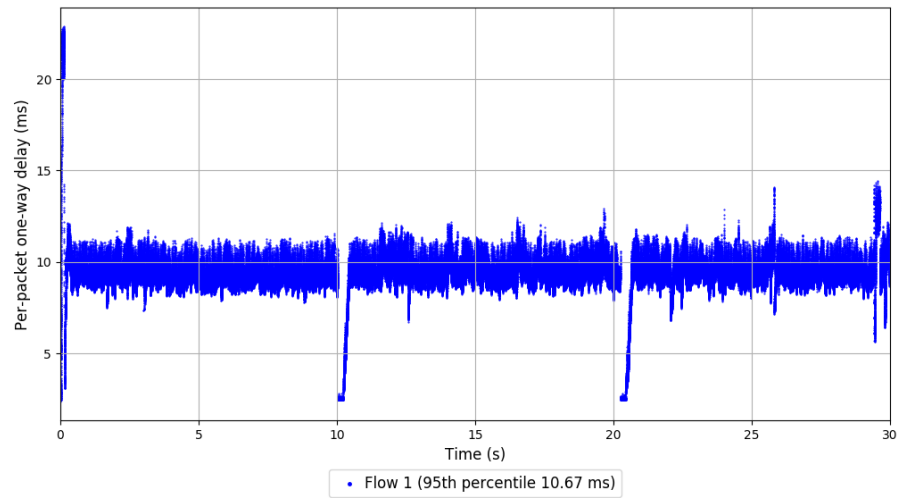
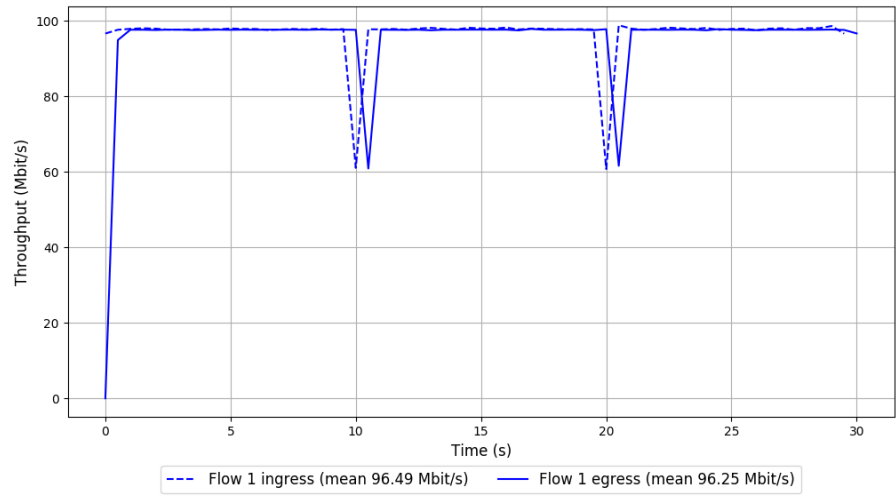
-- Flow 1:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 10.667 ms

Loss rate: 0.25%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-02-12 00:09:08

End at: 2019-02-12 00:09:38

Local clock offset: -3.97 ms

Remote clock offset: 0.525 ms

Below is generated by plot.py at 2019-02-12 00:31:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.11 Mbit/s

95th percentile per-packet one-way delay: 10.032 ms

Loss rate: 0.18%

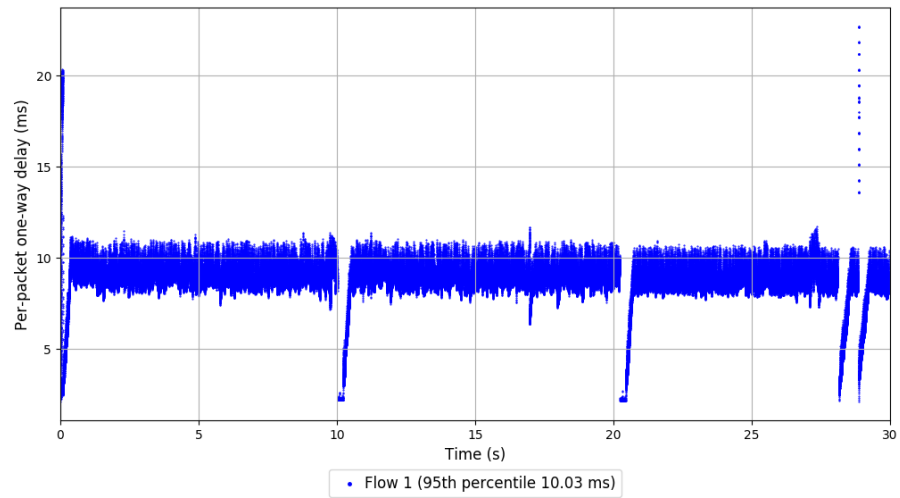
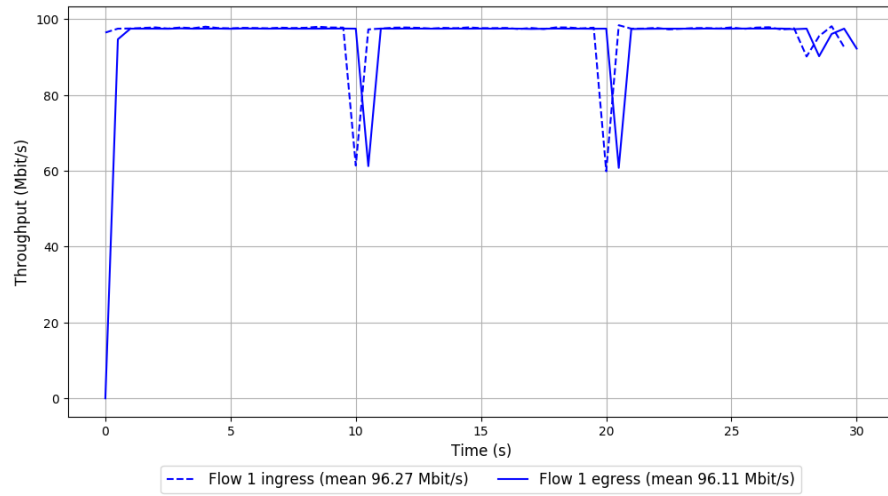
-- Flow 1:

Average throughput: 96.11 Mbit/s

95th percentile per-packet one-way delay: 10.032 ms

Loss rate: 0.18%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-02-11 22:38:54

End at: 2019-02-11 22:39:24

Local clock offset: -7.396 ms

Remote clock offset: 1.421 ms

Below is generated by plot.py at 2019-02-12 00:32:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.90 Mbit/s

95th percentile per-packet one-way delay: 3.306 ms

Loss rate: 0.02%

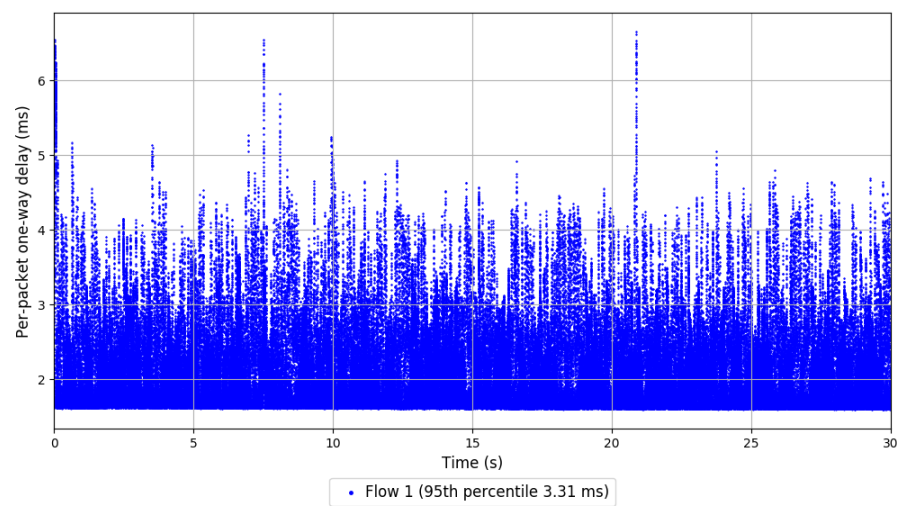
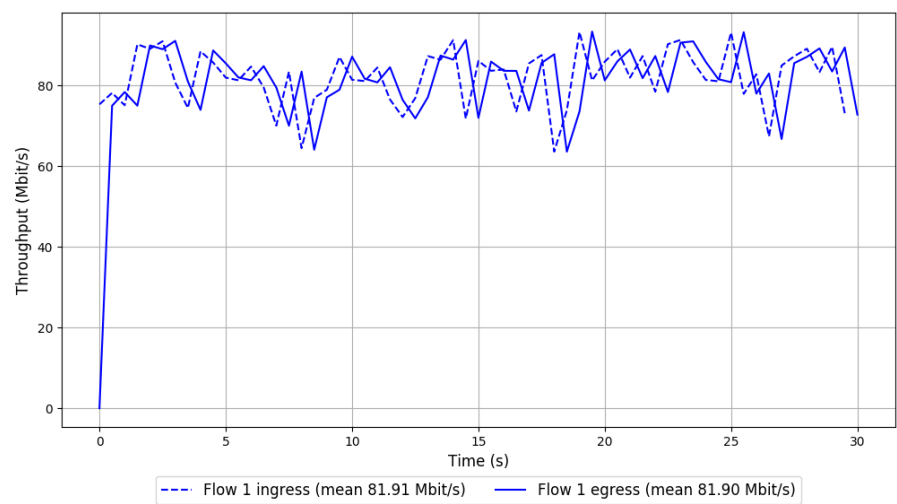
-- Flow 1:

Average throughput: 81.90 Mbit/s

95th percentile per-packet one-way delay: 3.306 ms

Loss rate: 0.02%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

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

End at: 2019-02-11 23:03:01

Local clock offset: -6.897 ms

Remote clock offset: 1.377 ms

Below is generated by plot.py at 2019-02-12 00:32:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.18 Mbit/s

95th percentile per-packet one-way delay: 3.709 ms

Loss rate: 0.02%

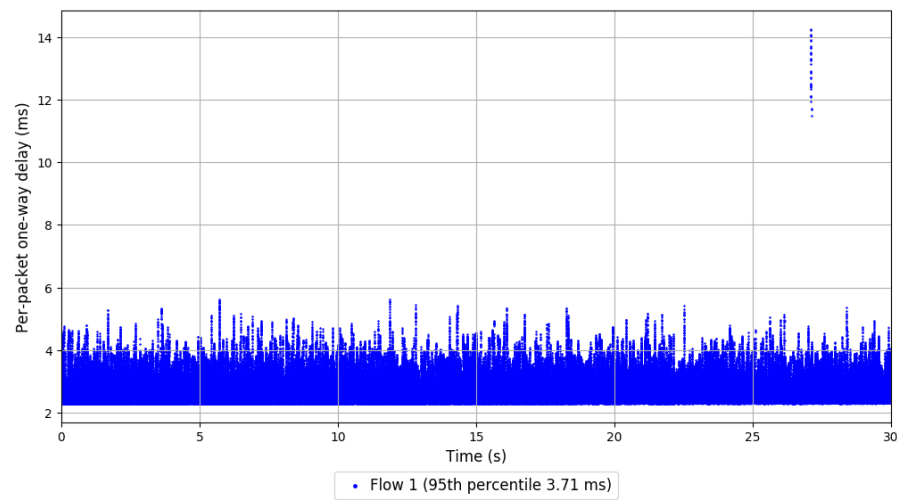
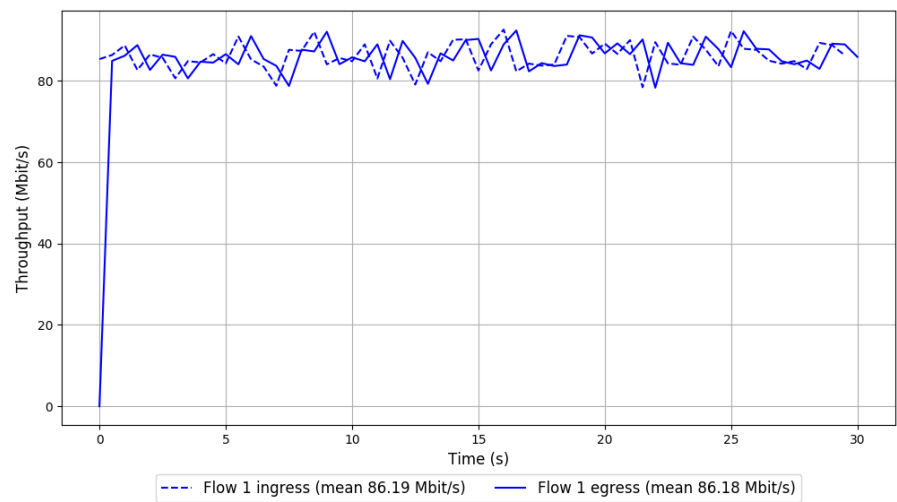
-- Flow 1:

Average throughput: 86.18 Mbit/s

95th percentile per-packet one-way delay: 3.709 ms

Loss rate: 0.02%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-02-11 23:26:12

End at: 2019-02-11 23:26:42

Local clock offset: -6.73 ms

Remote clock offset: 1.108 ms

Below is generated by plot.py at 2019-02-12 00:32:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.69 Mbit/s

95th percentile per-packet one-way delay: 3.082 ms

Loss rate: 0.04%

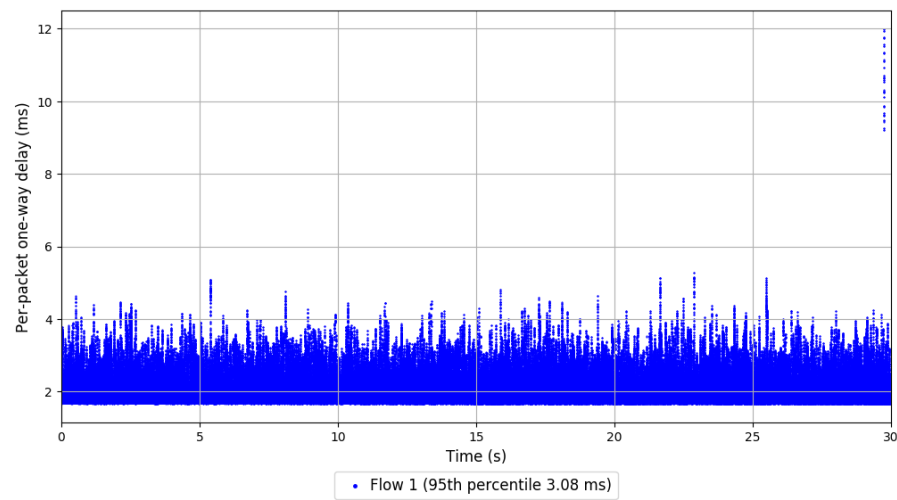
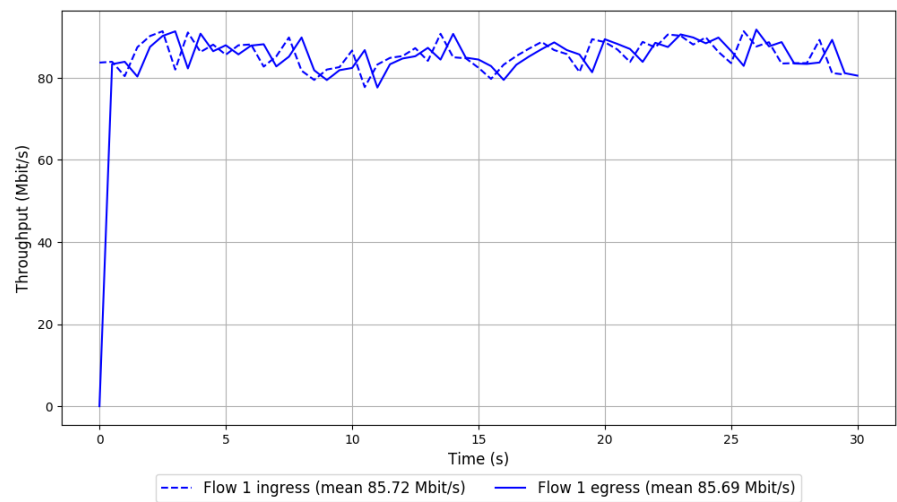
-- Flow 1:

Average throughput: 85.69 Mbit/s

95th percentile per-packet one-way delay: 3.082 ms

Loss rate: 0.04%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-02-11 23:49:50

End at: 2019-02-11 23:50:20

Local clock offset: -6.554 ms

Remote clock offset: 0.88 ms

Below is generated by plot.py at 2019-02-12 00:33:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.75 Mbit/s

95th percentile per-packet one-way delay: 3.355 ms

Loss rate: 0.02%

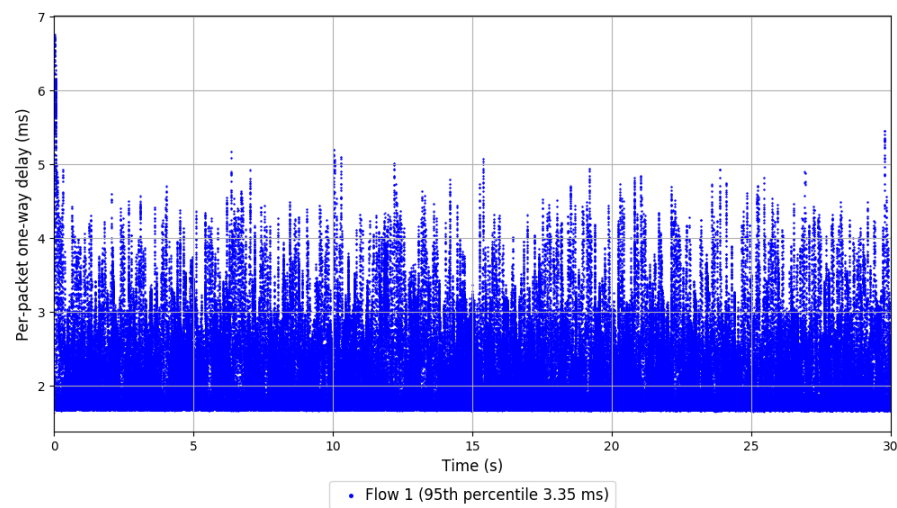
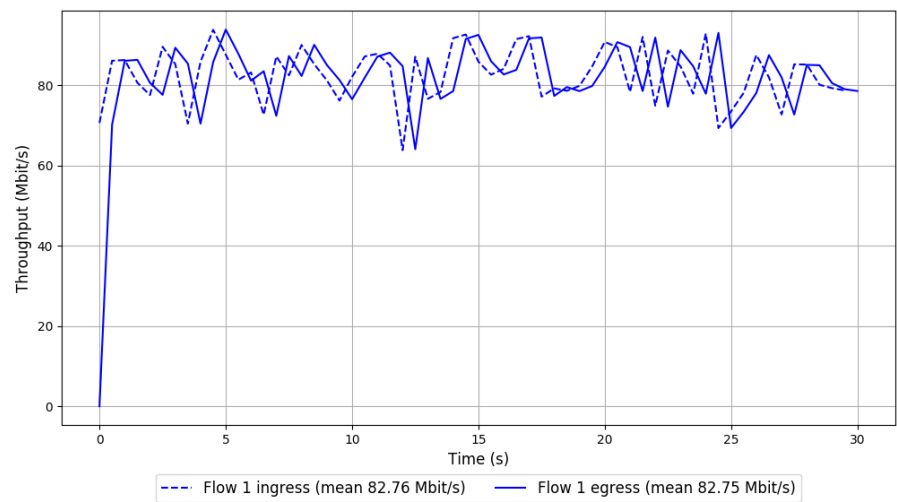
-- Flow 1:

Average throughput: 82.75 Mbit/s

95th percentile per-packet one-way delay: 3.355 ms

Loss rate: 0.02%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-02-12 00:13:35

End at: 2019-02-12 00:14:05

Local clock offset: -2.907 ms

Remote clock offset: 0.49 ms

Below is generated by plot.py at 2019-02-12 00:33:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.22 Mbit/s

95th percentile per-packet one-way delay: 3.571 ms

Loss rate: 0.02%

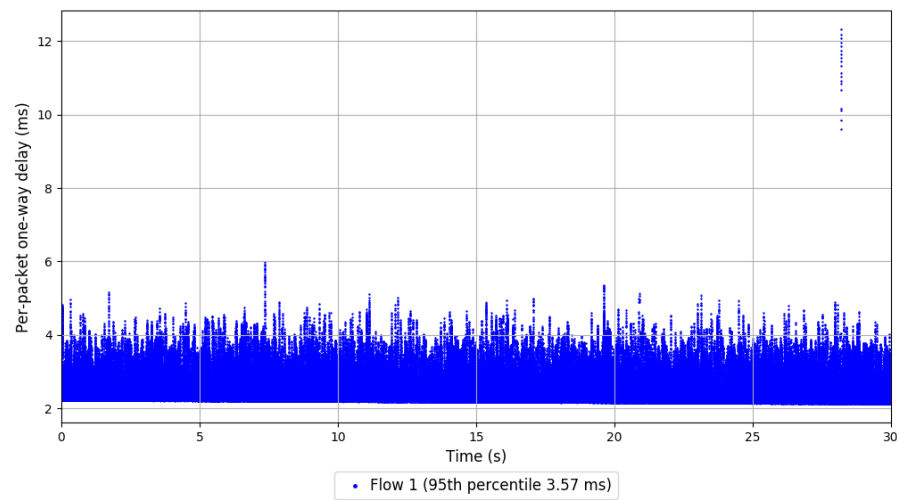
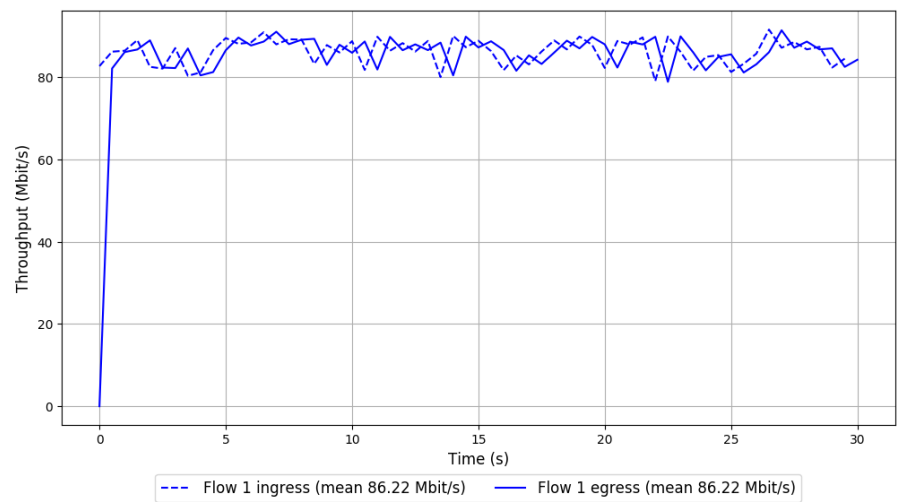
-- Flow 1:

Average throughput: 86.22 Mbit/s

95th percentile per-packet one-way delay: 3.571 ms

Loss rate: 0.02%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-02-11 22:41:14

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

Local clock offset: -7.388 ms

Remote clock offset: 1.346 ms

Below is generated by plot.py at 2019-02-12 00:33:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.44 Mbit/s

95th percentile per-packet one-way delay: 8.811 ms

Loss rate: 0.07%

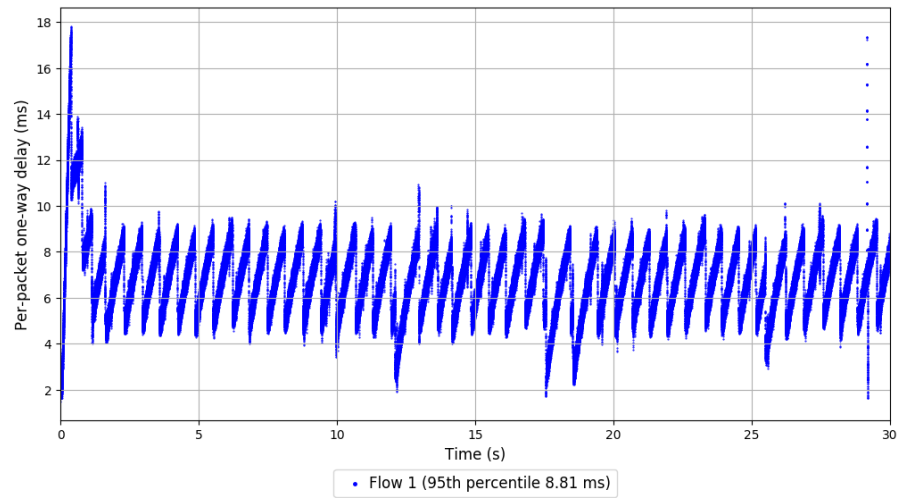
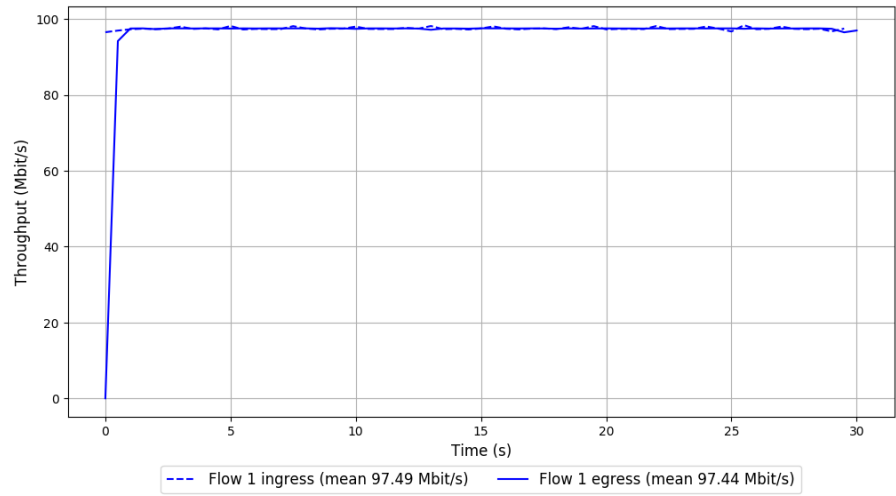
-- Flow 1:

Average throughput: 97.44 Mbit/s

95th percentile per-packet one-way delay: 8.811 ms

Loss rate: 0.07%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

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

End at: 2019-02-11 23:05:21

Local clock offset: -6.808 ms

Remote clock offset: 1.337 ms

Below is generated by plot.py at 2019-02-12 00:33:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 9.460 ms

Loss rate: 0.05%

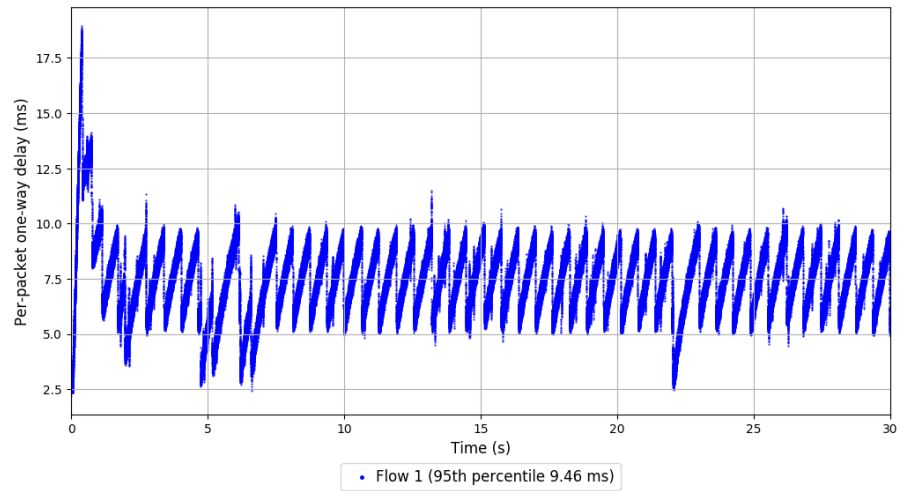
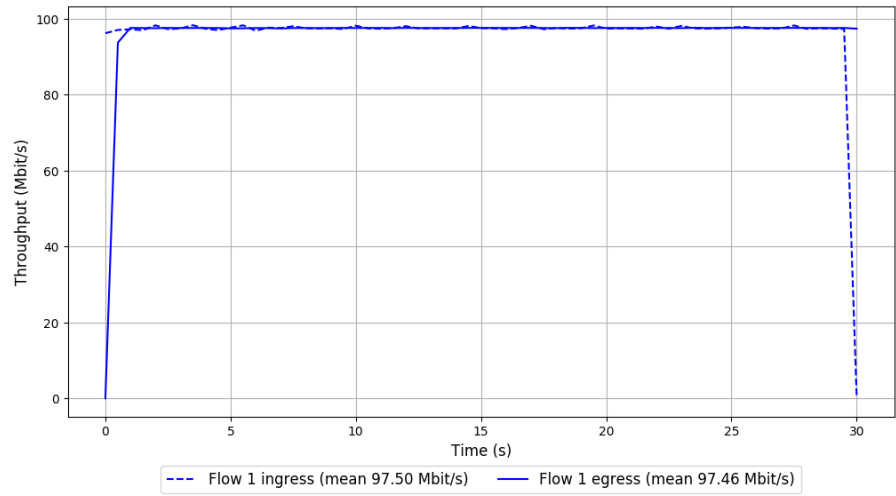
-- Flow 1:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 9.460 ms

Loss rate: 0.05%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2019-02-11 23:28:32

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

Local clock offset: -6.719 ms

Remote clock offset: 1.128 ms

Below is generated by plot.py at 2019-02-12 00:33:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.30 Mbit/s

95th percentile per-packet one-way delay: 8.913 ms

Loss rate: 0.06%

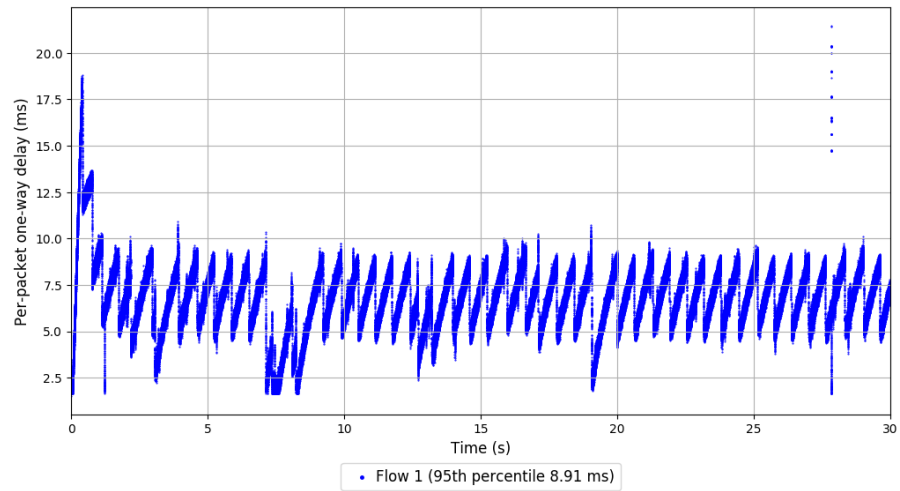
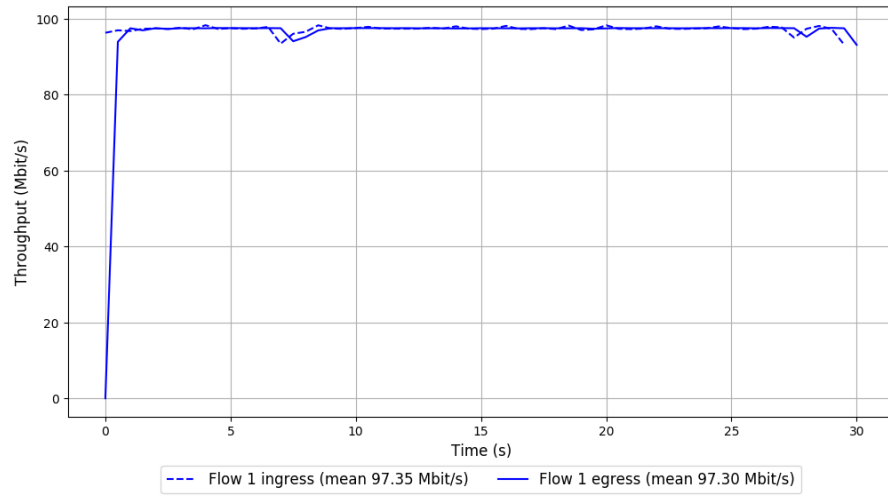
-- Flow 1:

Average throughput: 97.30 Mbit/s

95th percentile per-packet one-way delay: 8.913 ms

Loss rate: 0.06%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-02-11 23:52:10

End at: 2019-02-11 23:52:40

Local clock offset: -6.637 ms

Remote clock offset: 0.838 ms

Below is generated by plot.py at 2019-02-12 00:33:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 8.788 ms

Loss rate: 0.05%

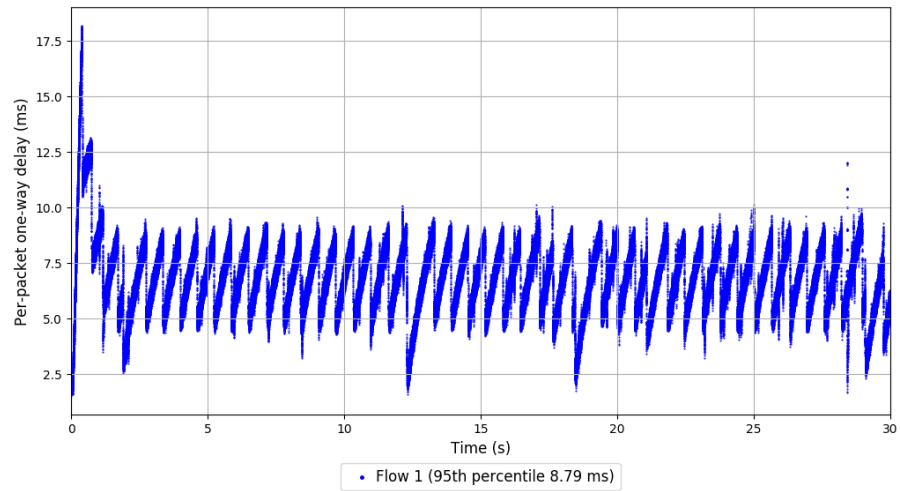
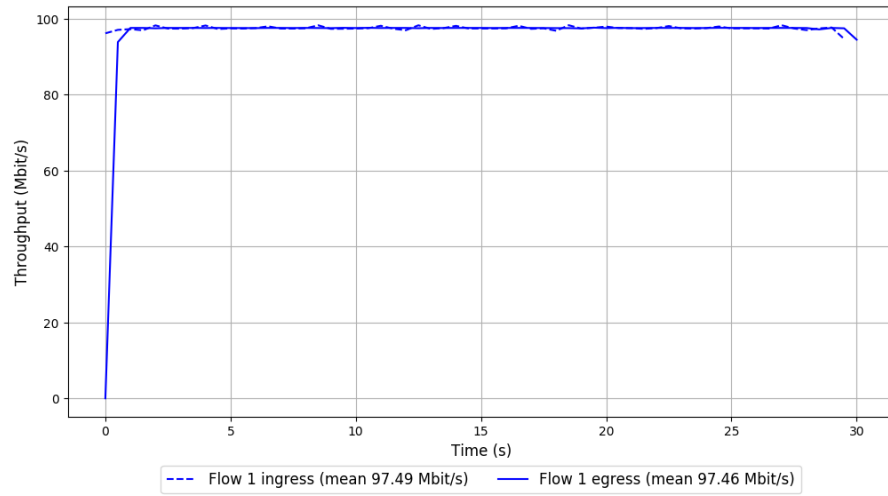
-- Flow 1:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 8.788 ms

Loss rate: 0.05%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-02-12 00:15:55

End at: 2019-02-12 00:16:25

Local clock offset: -2.425 ms

Remote clock offset: 0.448 ms

Below is generated by plot.py at 2019-02-12 00:33:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.45 Mbit/s

95th percentile per-packet one-way delay: 9.558 ms

Loss rate: 0.06%

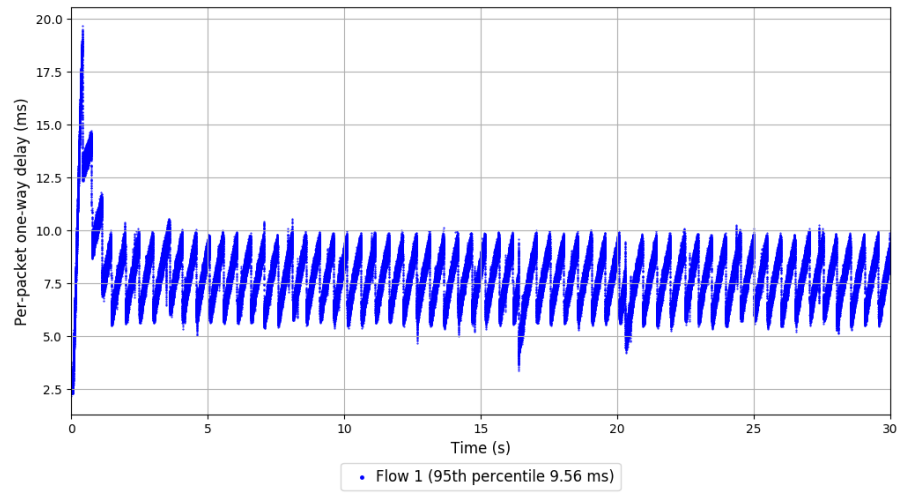
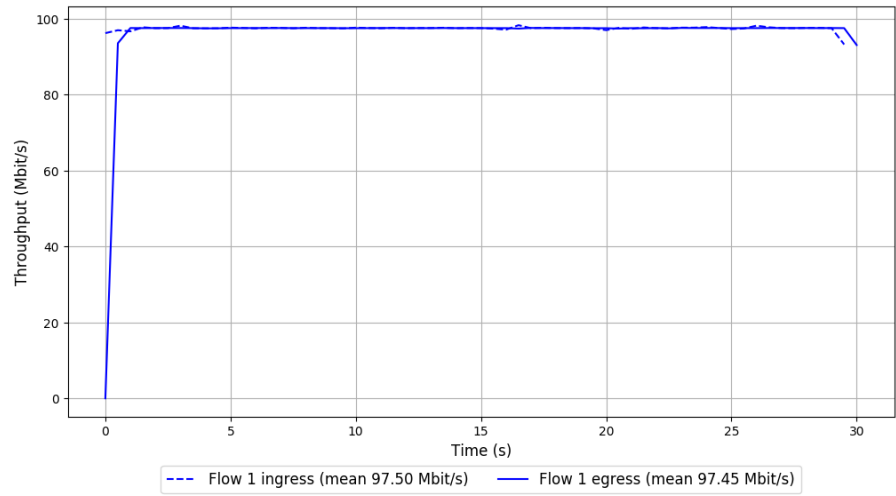
-- Flow 1:

Average throughput: 97.45 Mbit/s

95th percentile per-packet one-way delay: 9.558 ms

Loss rate: 0.06%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-02-11 22:50:14

End at: 2019-02-11 22:50:44

Local clock offset: -6.558 ms

Remote clock offset: 1.384 ms

Below is generated by plot.py at 2019-02-12 00:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.52 Mbit/s

95th percentile per-packet one-way delay: 15.255 ms

Loss rate: 0.13%

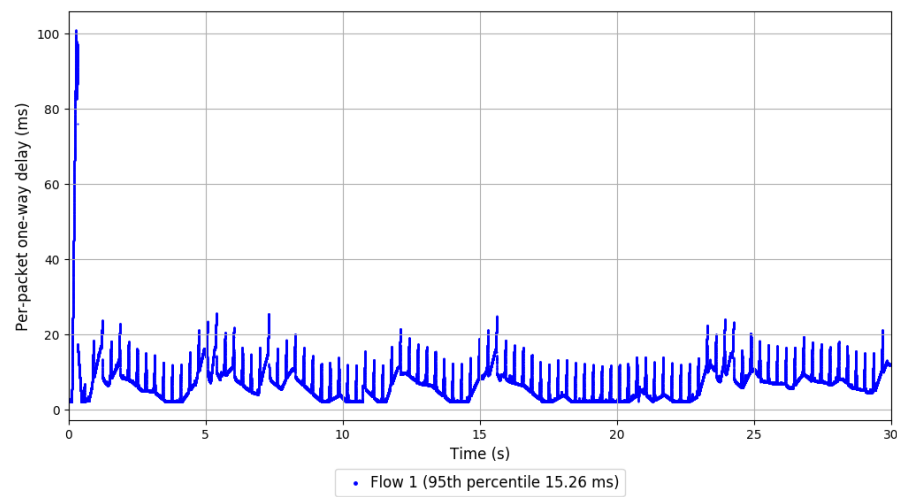
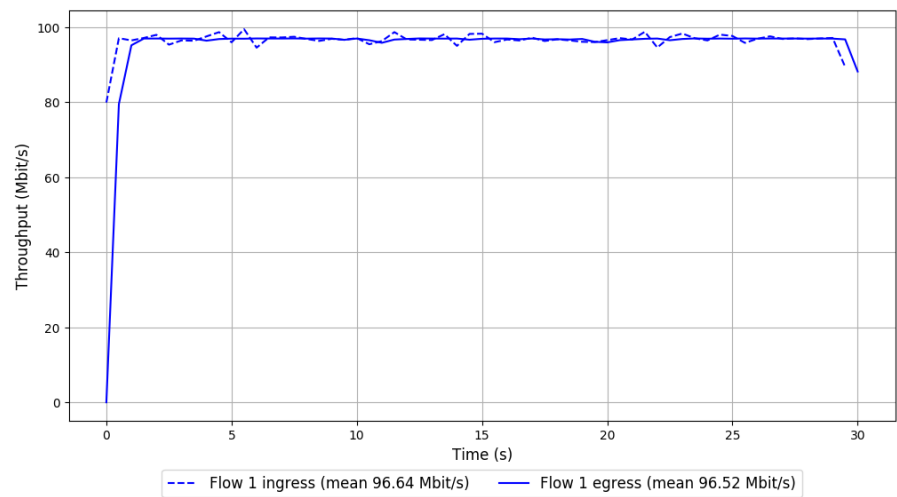
-- Flow 1:

Average throughput: 96.52 Mbit/s

95th percentile per-packet one-way delay: 15.255 ms

Loss rate: 0.13%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-02-11 23:13:54

End at: 2019-02-11 23:14:24

Local clock offset: -6.895 ms

Remote clock offset: 1.369 ms

Below is generated by plot.py at 2019-02-12 00:34:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.53 Mbit/s

95th percentile per-packet one-way delay: 17.215 ms

Loss rate: 0.22%

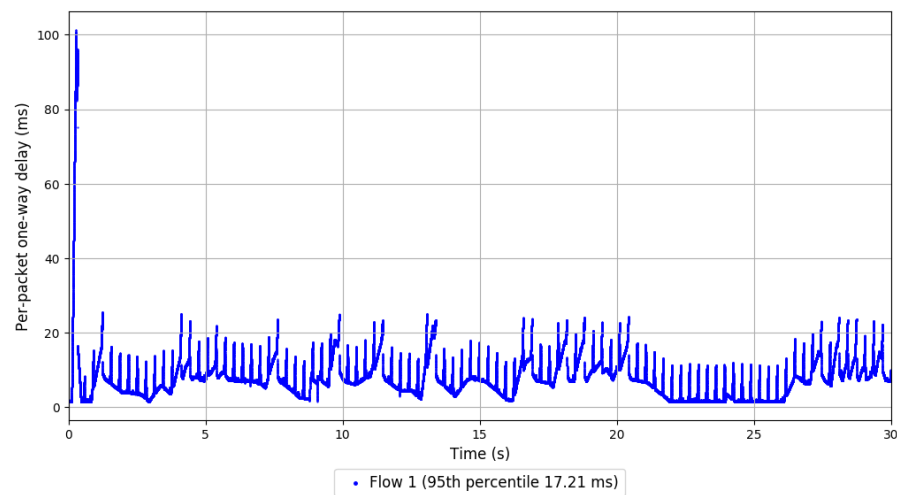
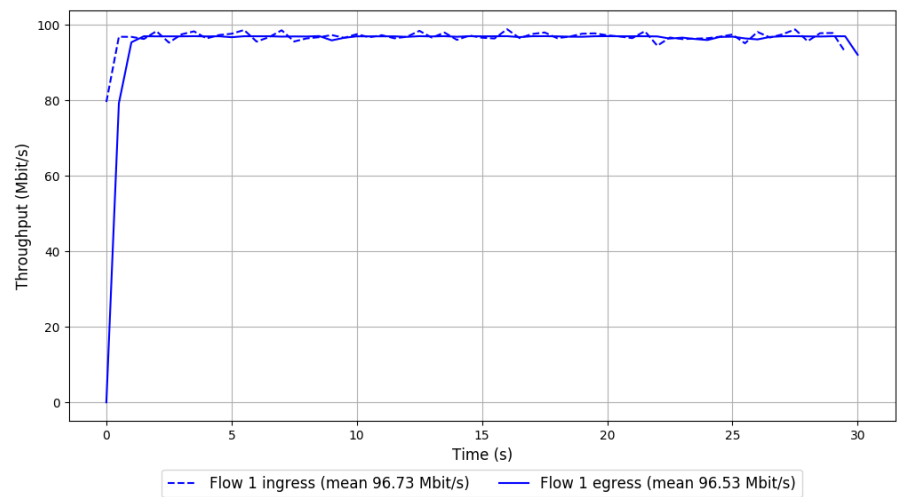
-- Flow 1:

Average throughput: 96.53 Mbit/s

95th percentile per-packet one-way delay: 17.215 ms

Loss rate: 0.22%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-02-11 23:37:34

End at: 2019-02-11 23:38:04

Local clock offset: -6.678 ms

Remote clock offset: 1.045 ms

Below is generated by plot.py at 2019-02-12 00:34:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.51 Mbit/s

95th percentile per-packet one-way delay: 13.602 ms

Loss rate: 0.10%

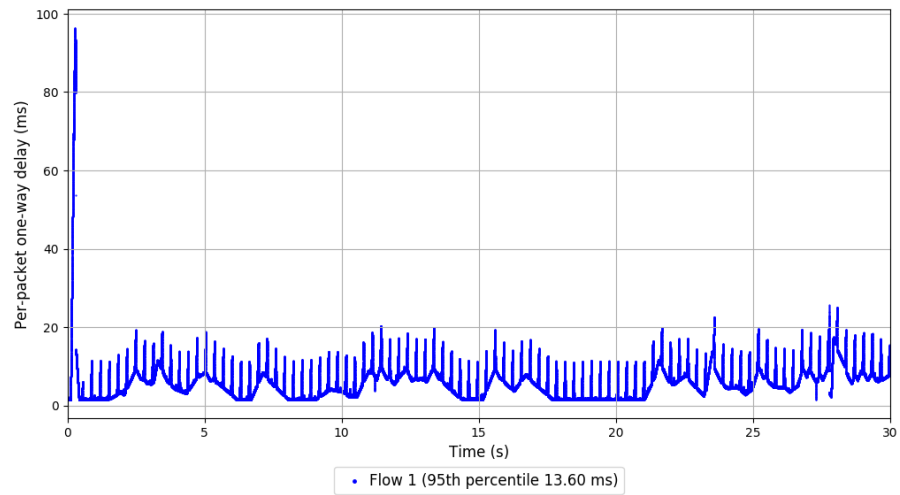
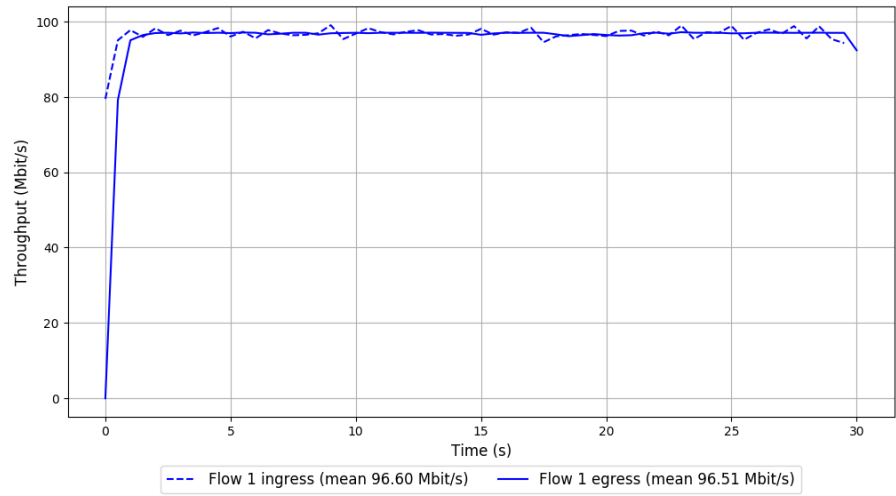
-- Flow 1:

Average throughput: 96.51 Mbit/s

95th percentile per-packet one-way delay: 13.602 ms

Loss rate: 0.10%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-02-12 00:01:13

End at: 2019-02-12 00:01:43

Local clock offset: -6.588 ms

Remote clock offset: 0.609 ms

Below is generated by plot.py at 2019-02-12 00:34:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.42 Mbit/s

95th percentile per-packet one-way delay: 13.059 ms

Loss rate: 0.06%

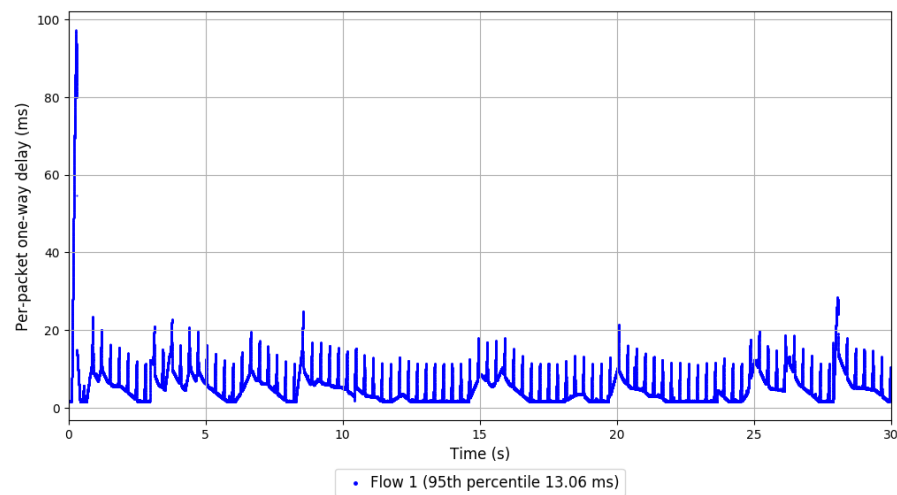
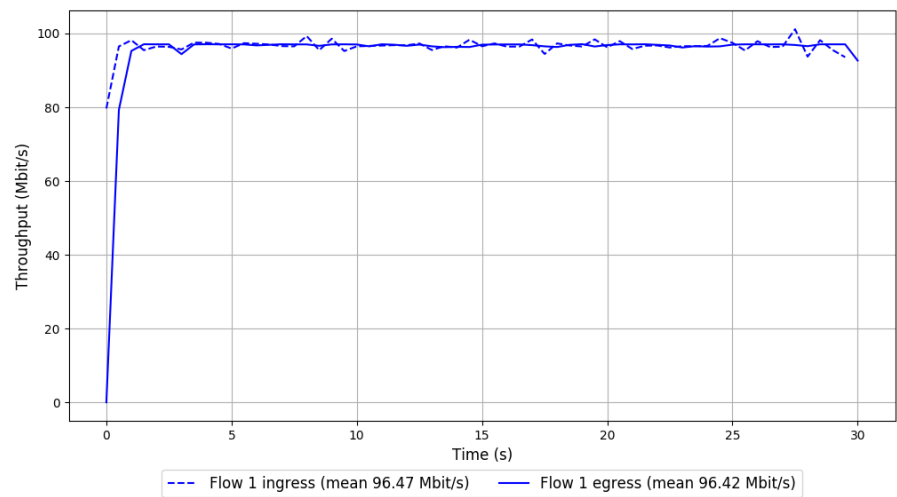
-- Flow 1:

Average throughput: 96.42 Mbit/s

95th percentile per-packet one-way delay: 13.059 ms

Loss rate: 0.06%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-02-12 00:24:59

End at: 2019-02-12 00:25:29

Local clock offset: -1.441 ms

Remote clock offset: 0.276 ms

Below is generated by plot.py at 2019-02-12 00:34:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.49 Mbit/s

95th percentile per-packet one-way delay: 15.052 ms

Loss rate: 0.31%

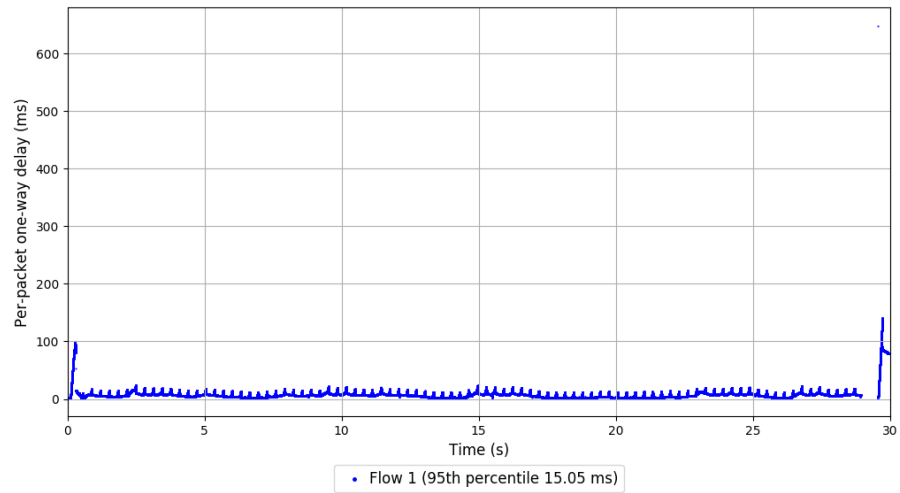
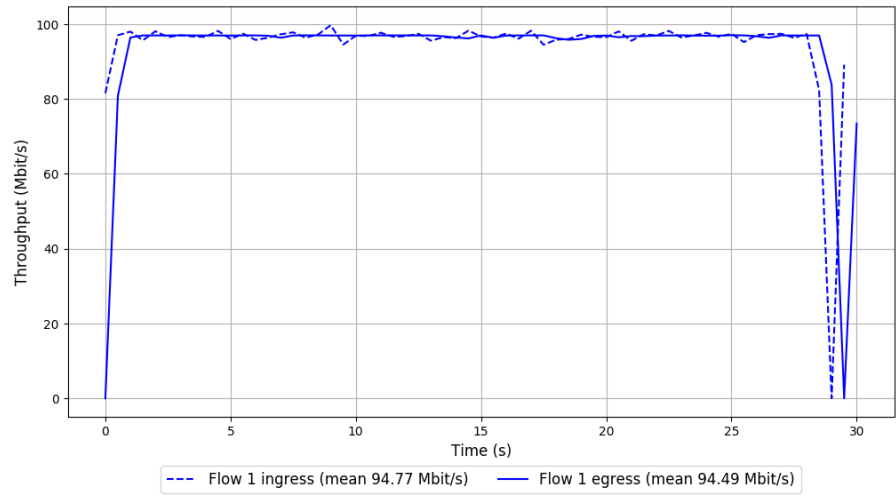
-- Flow 1:

Average throughput: 94.49 Mbit/s

95th percentile per-packet one-way delay: 15.052 ms

Loss rate: 0.31%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-02-11 22:44:35

End at: 2019-02-11 22:45:05

Local clock offset: -7.29 ms

Remote clock offset: 1.324 ms

Below is generated by plot.py at 2019-02-12 00:34:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.80 Mbit/s

95th percentile per-packet one-way delay: 7.226 ms

Loss rate: 0.02%

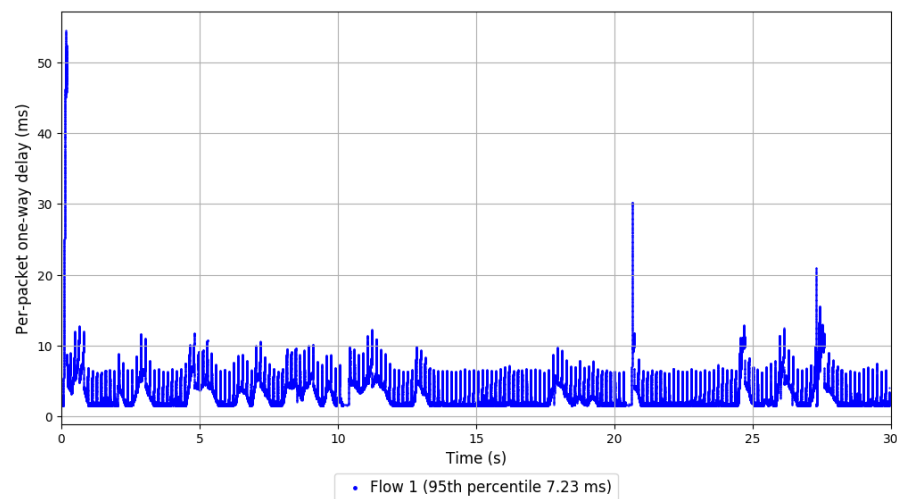
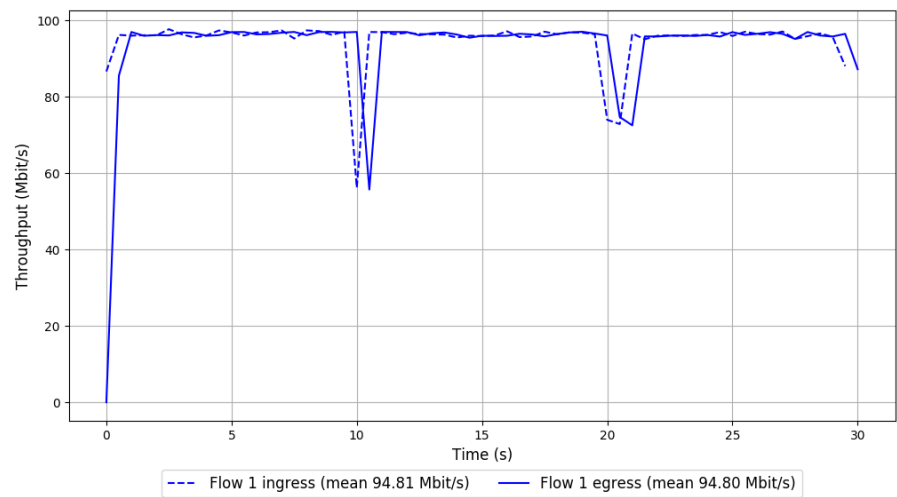
-- Flow 1:

Average throughput: 94.80 Mbit/s

95th percentile per-packet one-way delay: 7.226 ms

Loss rate: 0.02%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-02-11 23:08:13

End at: 2019-02-11 23:08:43

Local clock offset: -7.232 ms

Remote clock offset: 1.263 ms

Below is generated by plot.py at 2019-02-12 00:35:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.05 Mbit/s

95th percentile per-packet one-way delay: 8.508 ms

Loss rate: 0.06%

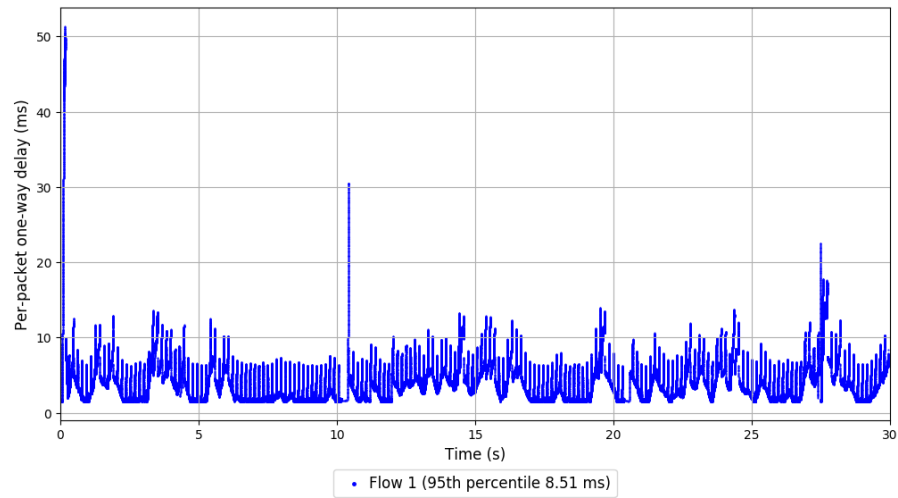
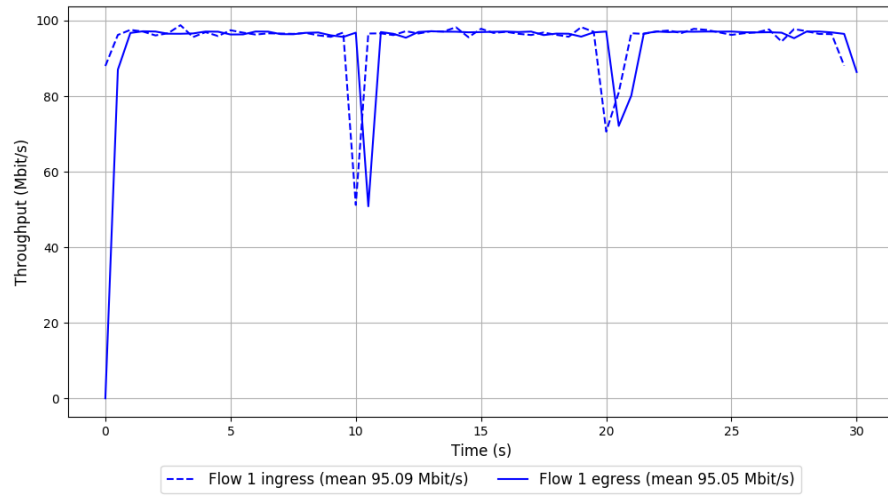
-- Flow 1:

Average throughput: 95.05 Mbit/s

95th percentile per-packet one-way delay: 8.508 ms

Loss rate: 0.06%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

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

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

Local clock offset: -6.756 ms

Remote clock offset: 1.143 ms

Below is generated by plot.py at 2019-02-12 00:35:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.12 Mbit/s

95th percentile per-packet one-way delay: 9.293 ms

Loss rate: 0.04%

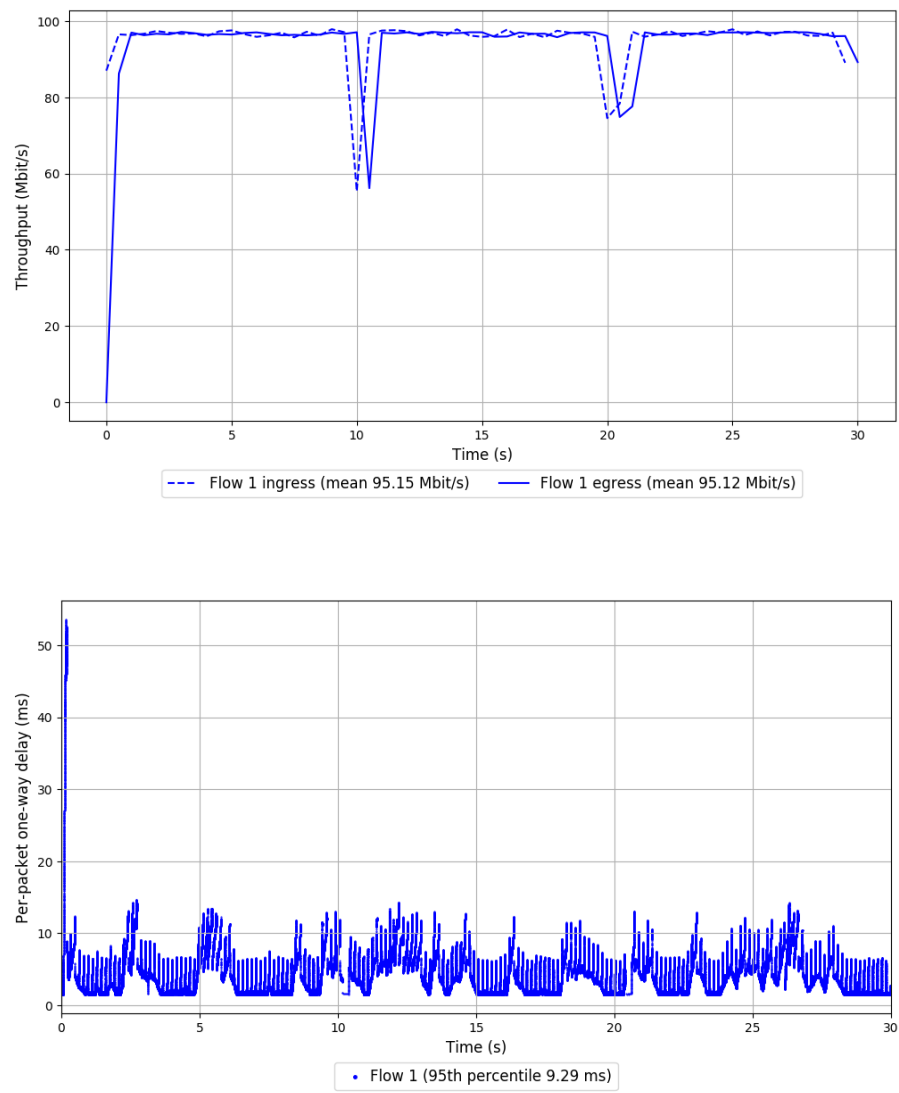
-- Flow 1:

Average throughput: 95.12 Mbit/s

95th percentile per-packet one-way delay: 9.293 ms

Loss rate: 0.04%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-02-11 23:55:32

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

Local clock offset: -5.885 ms

Remote clock offset: 0.674 ms

Below is generated by plot.py at 2019-02-12 00:35:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.50 Mbit/s

95th percentile per-packet one-way delay: 7.073 ms

Loss rate: 0.01%

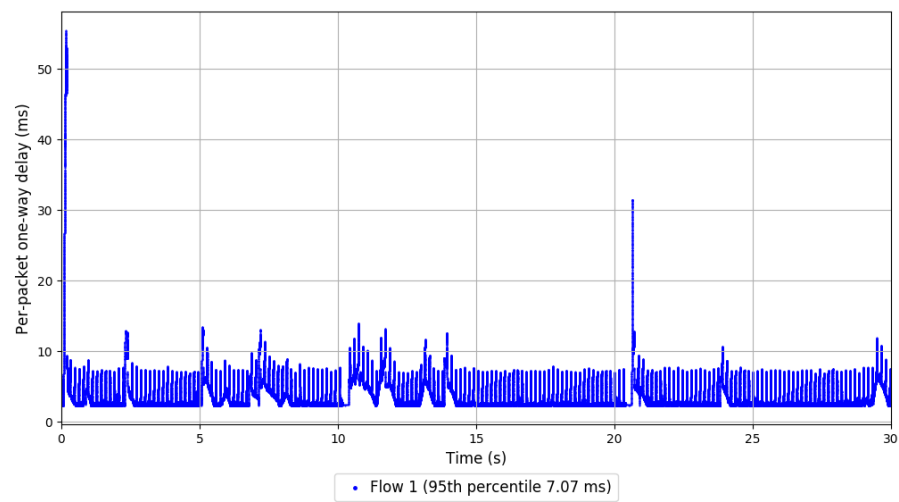
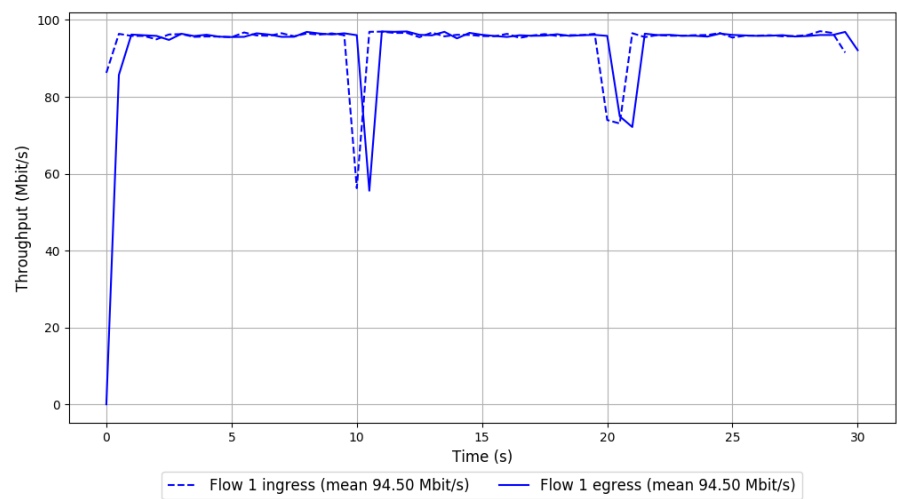
-- Flow 1:

Average throughput: 94.50 Mbit/s

95th percentile per-packet one-way delay: 7.073 ms

Loss rate: 0.01%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-02-12 00:19:18

End at: 2019-02-12 00:19:48

Local clock offset: -1.959 ms

Remote clock offset: 0.345 ms

Below is generated by plot.py at 2019-02-12 00:35:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.88 Mbit/s

95th percentile per-packet one-way delay: 8.878 ms

Loss rate: 0.03%

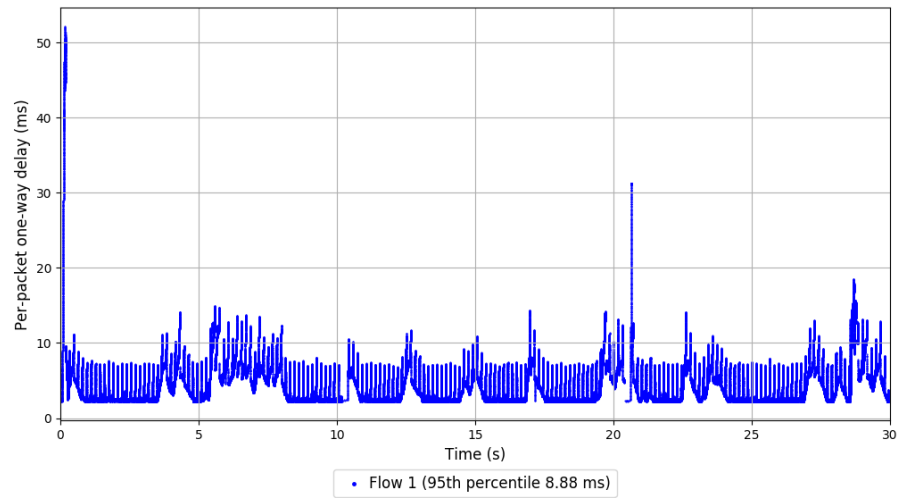
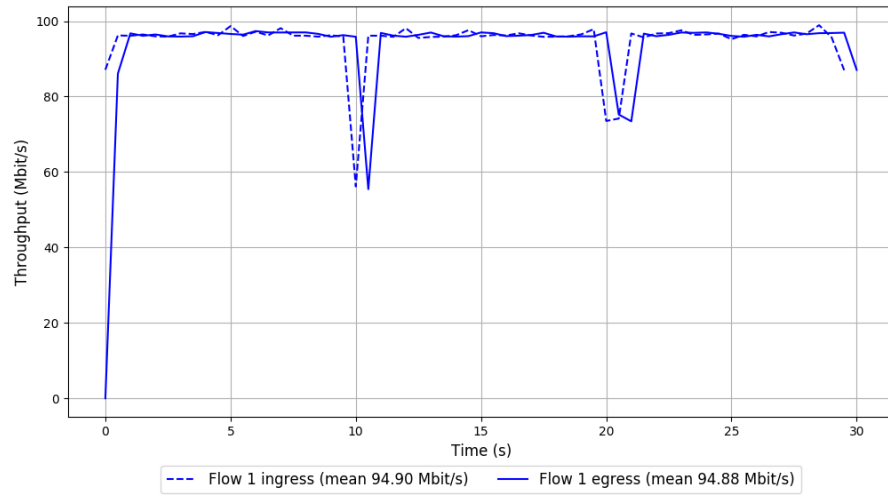
-- Flow 1:

Average throughput: 94.88 Mbit/s

95th percentile per-packet one-way delay: 8.878 ms

Loss rate: 0.03%

Run 5: Report of FillP-Sheep — Data Link

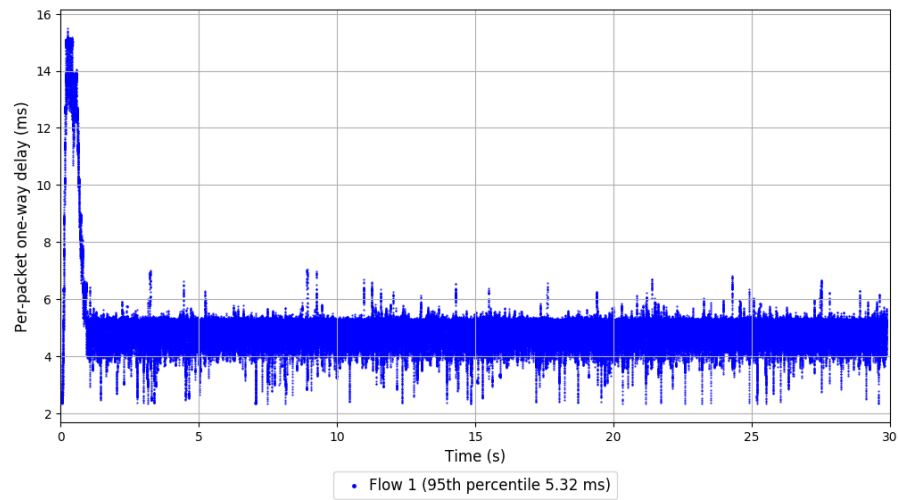
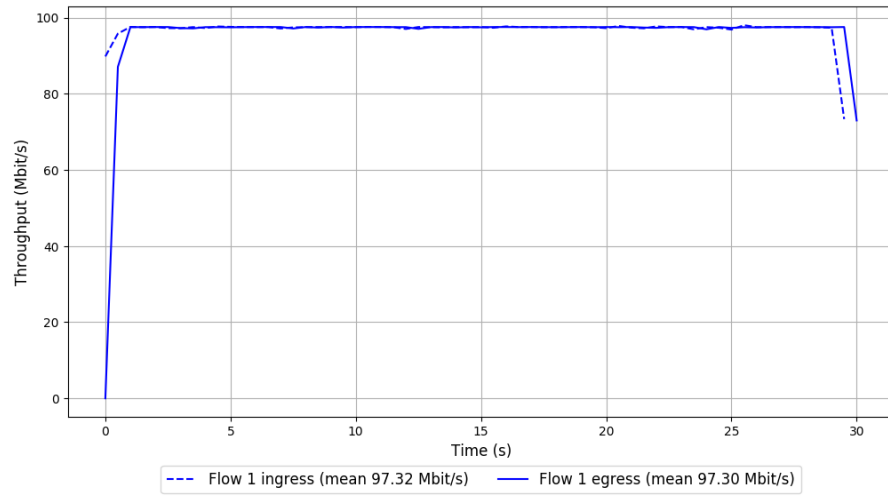


```
Run 1: Statistics of Indigo

Start at: 2019-02-11 22:40:04
End at: 2019-02-11 22:40:34
Local clock offset: -6.668 ms
Remote clock offset: 1.371 ms

# Below is generated by plot.py at 2019-02-12 00:35:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.30 Mbit/s
95th percentile per-packet one-way delay: 5.318 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 97.30 Mbit/s
95th percentile per-packet one-way delay: 5.318 ms
Loss rate: 0.03%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-02-11 23:03:41

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

Local clock offset: -6.875 ms

Remote clock offset: 1.296 ms

Below is generated by plot.py at 2019-02-12 00:35:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.18 Mbit/s

95th percentile per-packet one-way delay: 5.414 ms

Loss rate: 0.04%

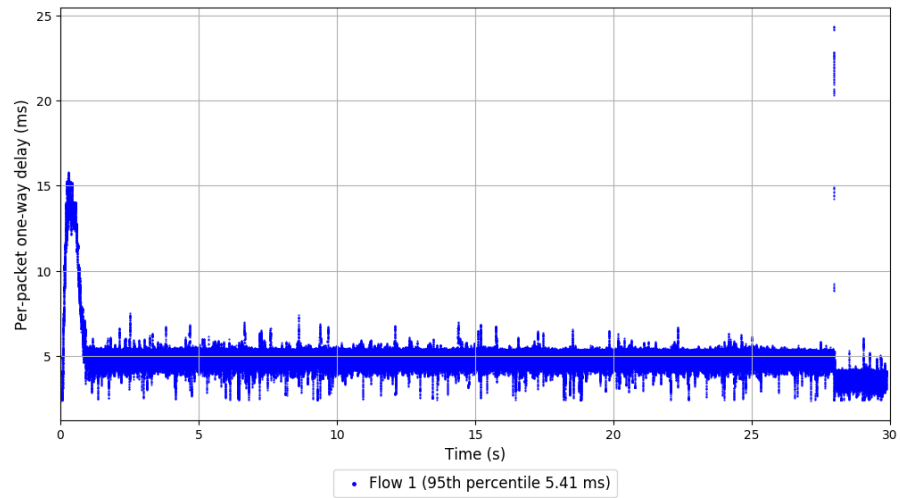
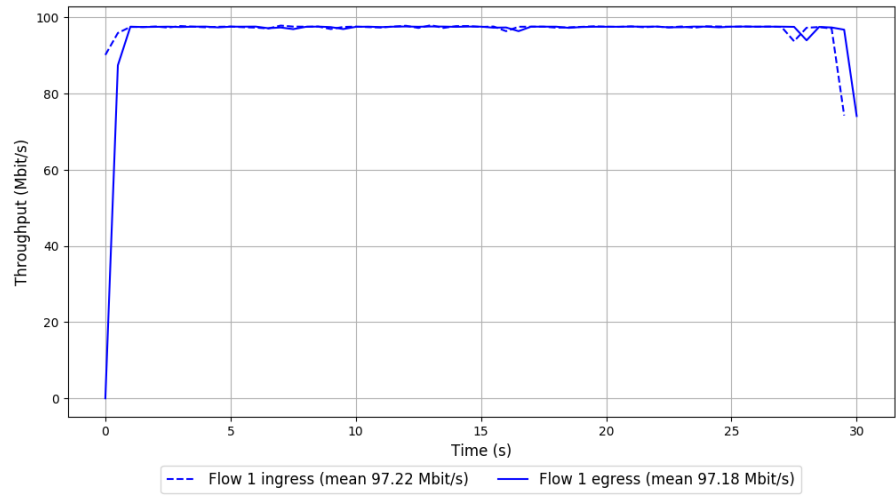
-- Flow 1:

Average throughput: 97.18 Mbit/s

95th percentile per-packet one-way delay: 5.414 ms

Loss rate: 0.04%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-02-11 23:27:22

End at: 2019-02-11 23:27:52

Local clock offset: -6.738 ms

Remote clock offset: 1.101 ms

Below is generated by plot.py at 2019-02-12 00:36:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.28 Mbit/s

95th percentile per-packet one-way delay: 4.649 ms

Loss rate: 0.03%

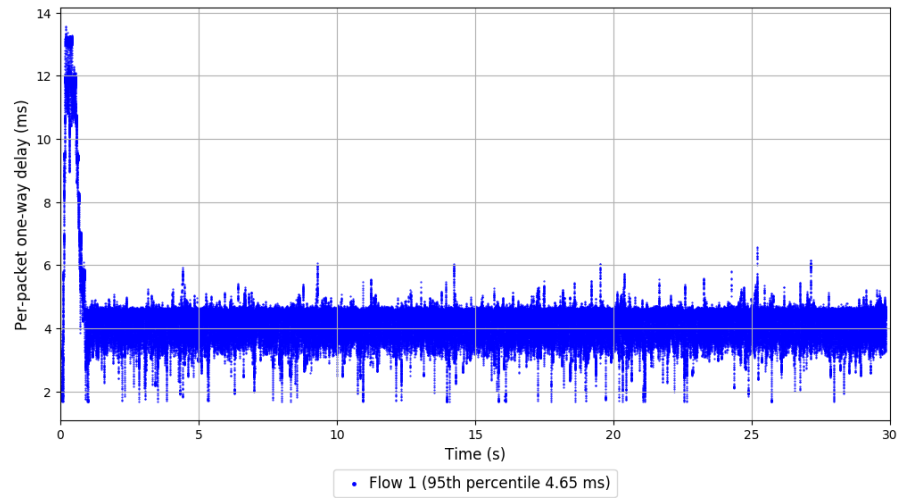
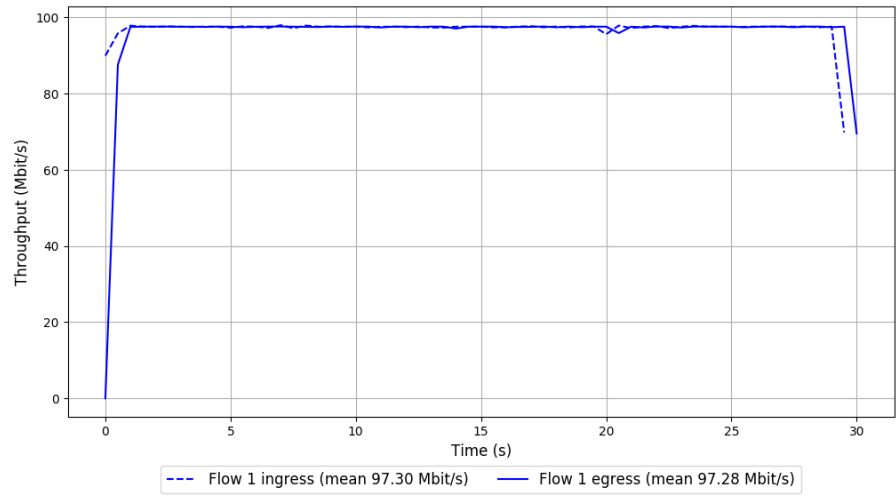
-- Flow 1:

Average throughput: 97.28 Mbit/s

95th percentile per-packet one-way delay: 4.649 ms

Loss rate: 0.03%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-02-11 23:51:00

End at: 2019-02-11 23:51:30

Local clock offset: -6.549 ms

Remote clock offset: 0.865 ms

Below is generated by plot.py at 2019-02-12 00:36:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.26 Mbit/s

95th percentile per-packet one-way delay: 4.715 ms

Loss rate: 0.03%

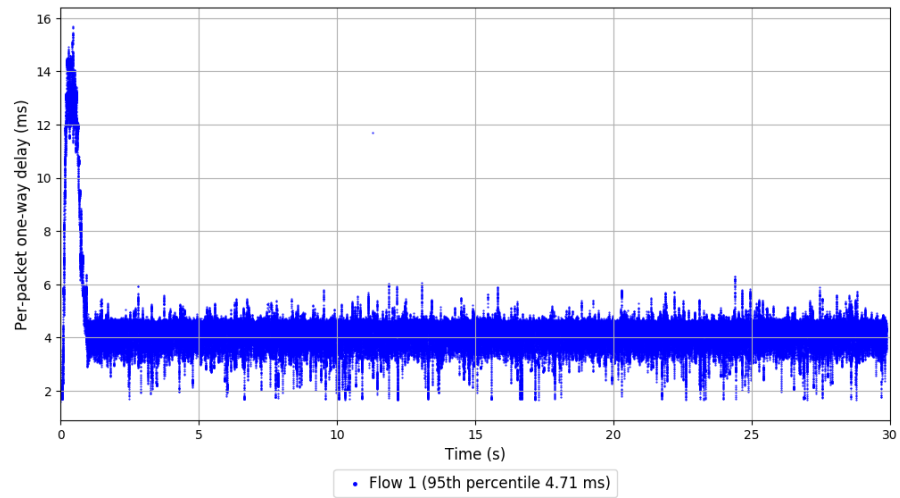
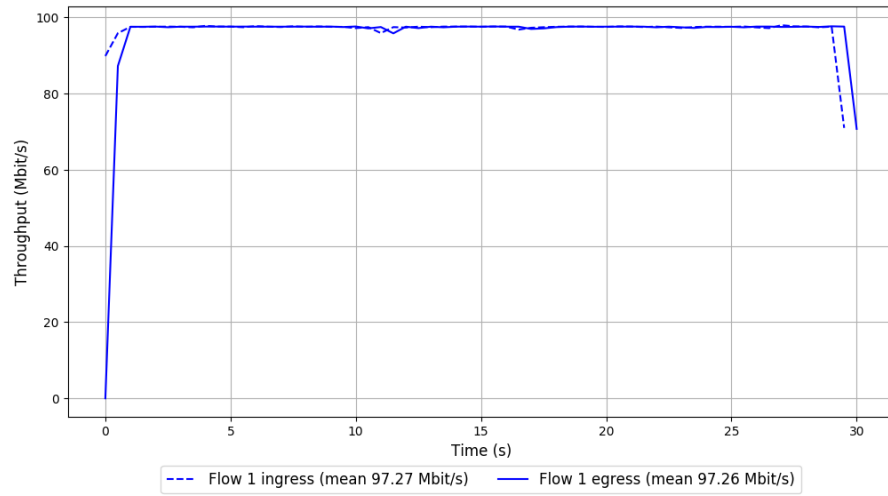
-- Flow 1:

Average throughput: 97.26 Mbit/s

95th percentile per-packet one-way delay: 4.715 ms

Loss rate: 0.03%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-02-12 00:14:46

End at: 2019-02-12 00:15:16

Local clock offset: -3.438 ms

Remote clock offset: 0.419 ms

Below is generated by plot.py at 2019-02-12 00:36:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.21 Mbit/s

95th percentile per-packet one-way delay: 4.472 ms

Loss rate: 0.03%

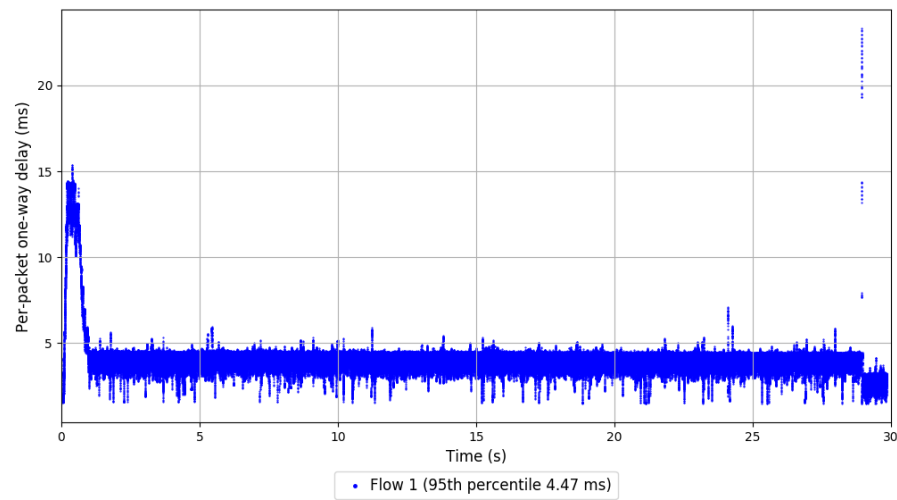
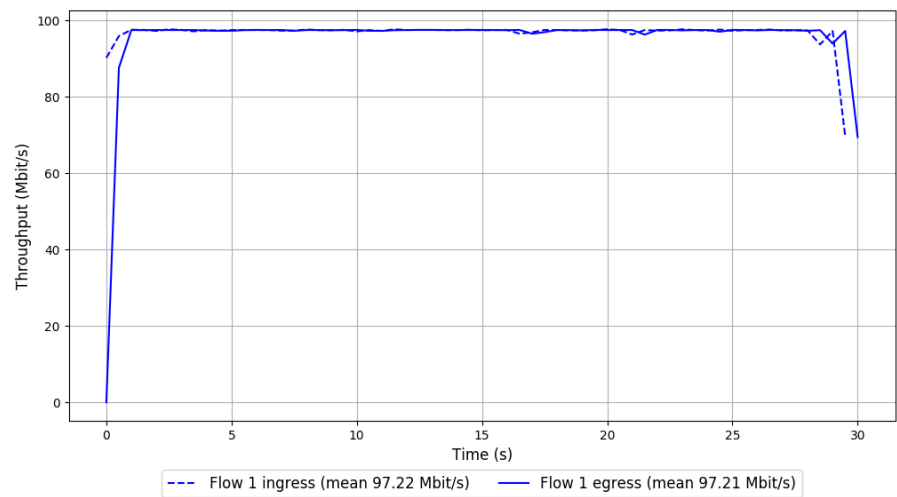
-- Flow 1:

Average throughput: 97.21 Mbit/s

95th percentile per-packet one-way delay: 4.472 ms

Loss rate: 0.03%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-02-11 22:51:21

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

Local clock offset: -6.625 ms

Remote clock offset: 1.386 ms

Below is generated by plot.py at 2019-02-12 00:36:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.83 Mbit/s

95th percentile per-packet one-way delay: 3.474 ms

Loss rate: 0.02%

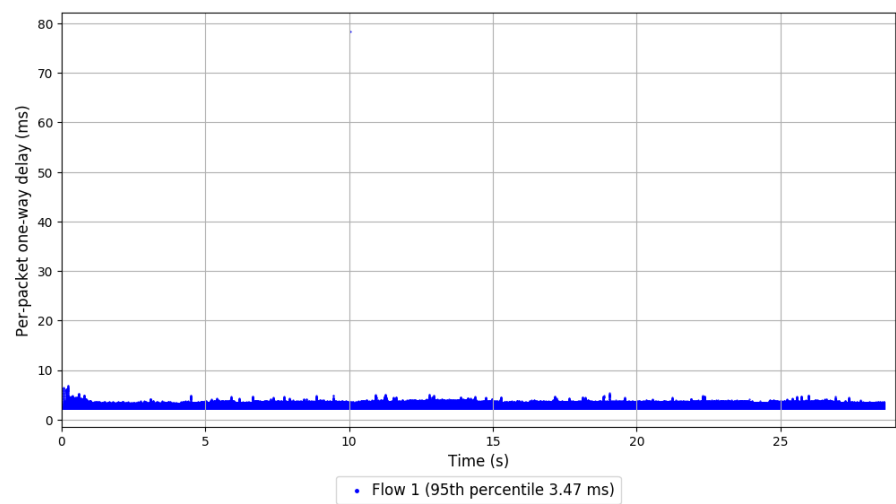
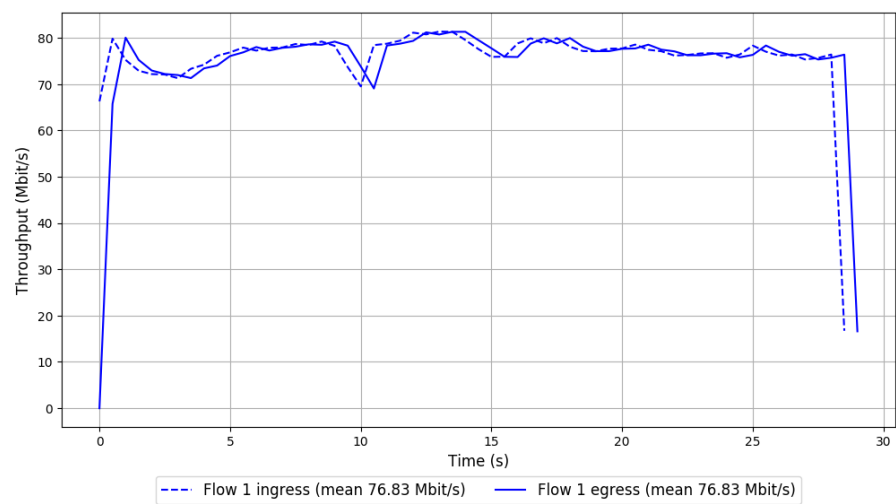
-- Flow 1:

Average throughput: 76.83 Mbit/s

95th percentile per-packet one-way delay: 3.474 ms

Loss rate: 0.02%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-02-11 23:15:01

End at: 2019-02-11 23:15:31

Local clock offset: -6.854 ms

Remote clock offset: 1.305 ms

Below is generated by plot.py at 2019-02-12 00:36:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.77 Mbit/s

95th percentile per-packet one-way delay: 3.853 ms

Loss rate: 0.02%

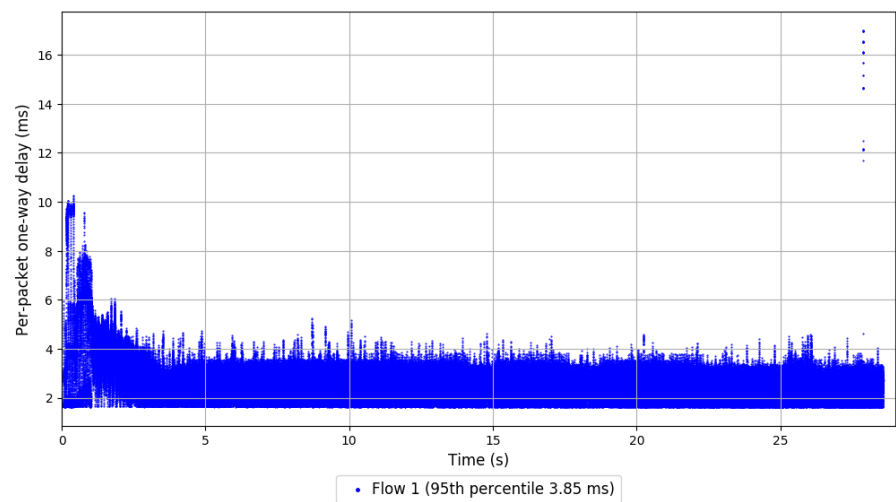
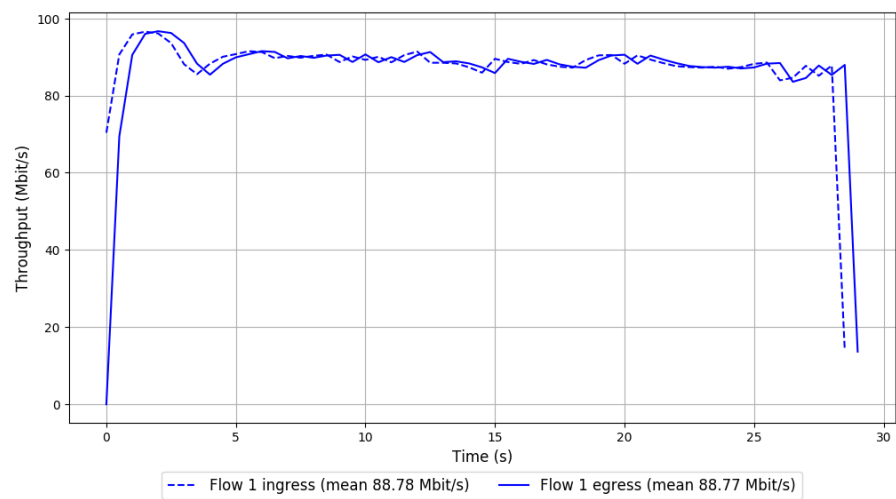
-- Flow 1:

Average throughput: 88.77 Mbit/s

95th percentile per-packet one-way delay: 3.853 ms

Loss rate: 0.02%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-02-11 23:38:42

End at: 2019-02-11 23:39:12

Local clock offset: -6.727 ms

Remote clock offset: 0.983 ms

Below is generated by plot.py at 2019-02-12 00:36:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.99 Mbit/s

95th percentile per-packet one-way delay: 2.923 ms

Loss rate: 0.04%

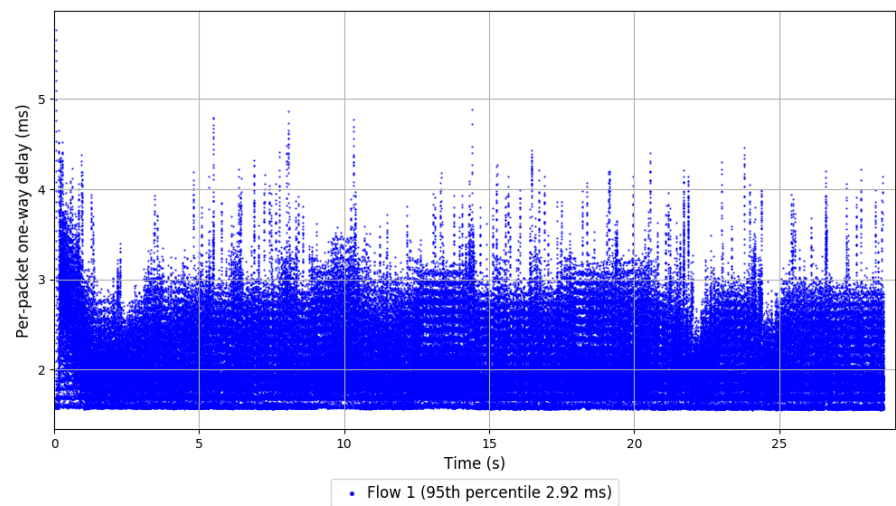
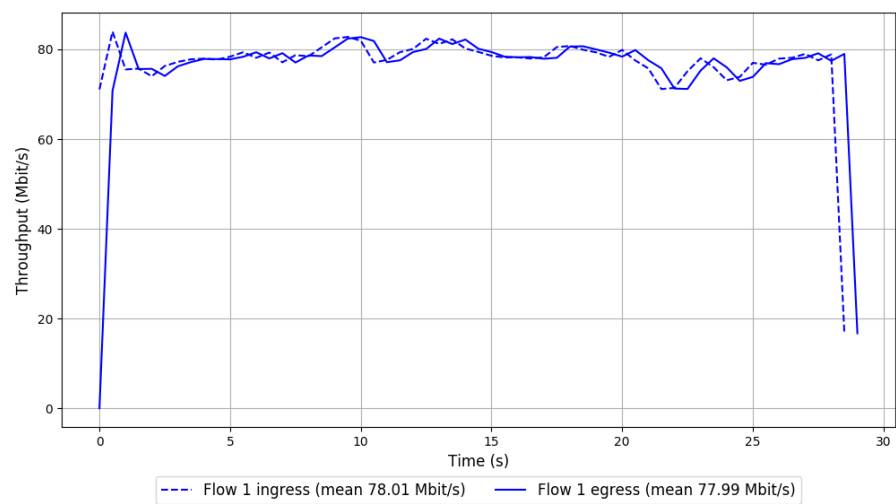
-- Flow 1:

Average throughput: 77.99 Mbit/s

95th percentile per-packet one-way delay: 2.923 ms

Loss rate: 0.04%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

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

End at: 2019-02-12 00:02:51

Local clock offset: -6.595 ms

Remote clock offset: 0.593 ms

Below is generated by plot.py at 2019-02-12 00:36:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.14 Mbit/s

95th percentile per-packet one-way delay: 2.643 ms

Loss rate: 0.01%

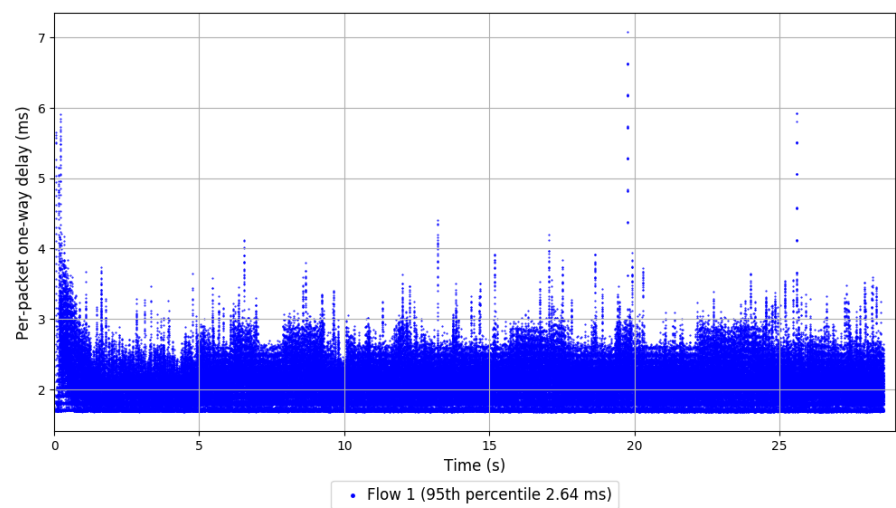
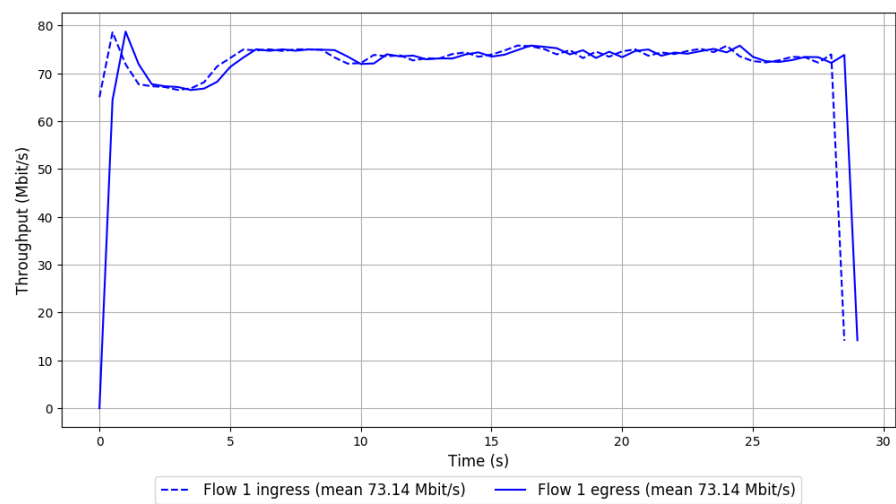
-- Flow 1:

Average throughput: 73.14 Mbit/s

95th percentile per-packet one-way delay: 2.643 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-02-12 00:26:07

End at: 2019-02-12 00:26:37

Local clock offset: -1.269 ms

Remote clock offset: 0.285 ms

Below is generated by plot.py at 2019-02-12 00:36:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.62 Mbit/s

95th percentile per-packet one-way delay: 3.728 ms

Loss rate: 0.01%

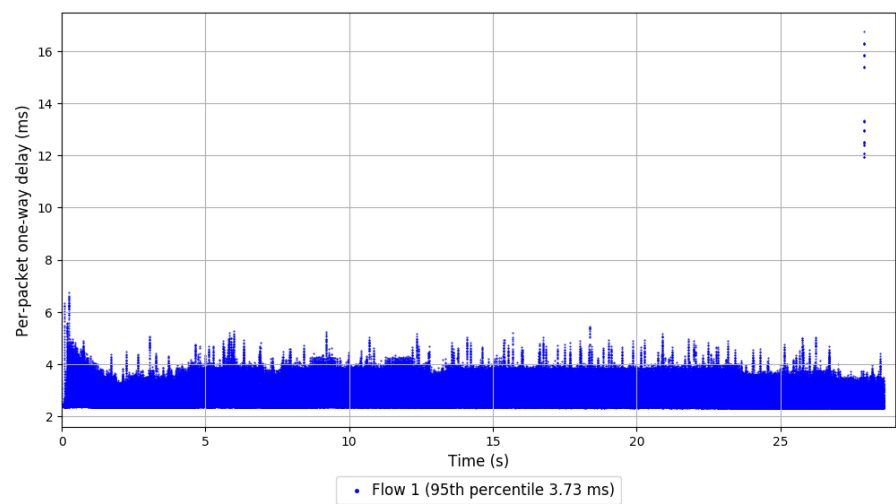
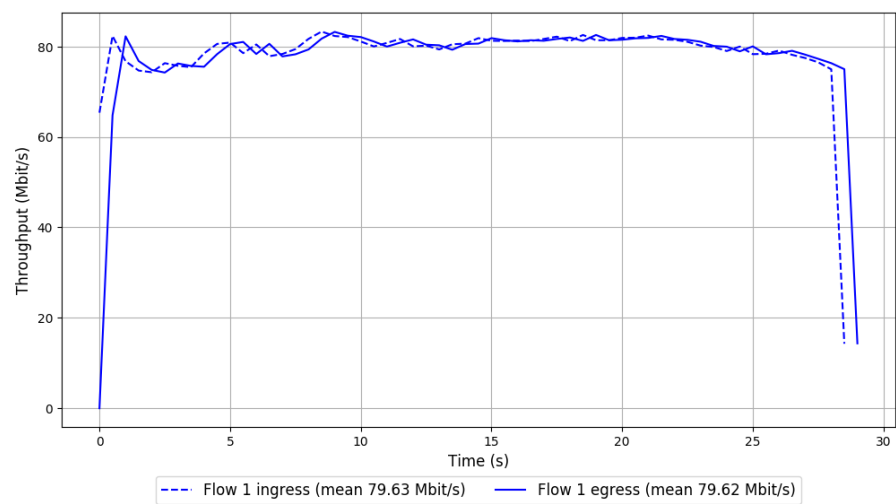
-- Flow 1:

Average throughput: 79.62 Mbit/s

95th percentile per-packet one-way delay: 3.728 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-02-11 22:43:30

End at: 2019-02-11 22:44:00

Local clock offset: -6.52 ms

Remote clock offset: 1.376 ms

Below is generated by plot.py at 2019-02-12 00:36:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.81 Mbit/s

95th percentile per-packet one-way delay: 4.340 ms

Loss rate: 0.02%

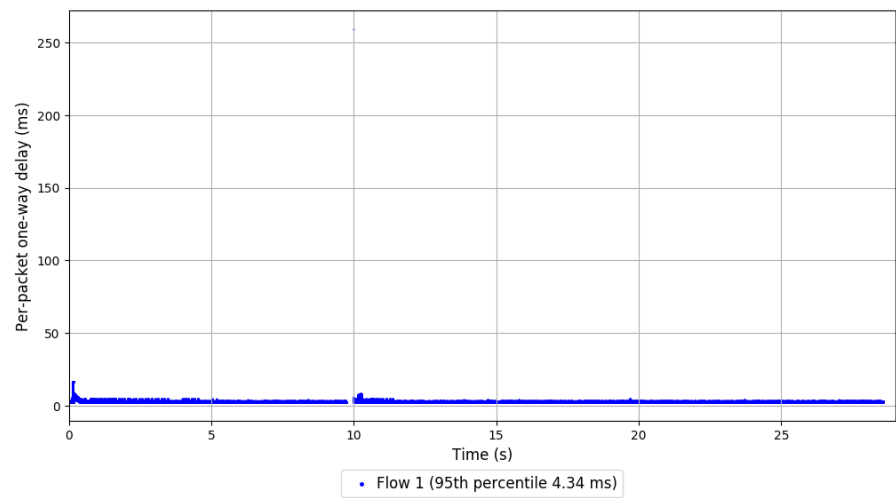
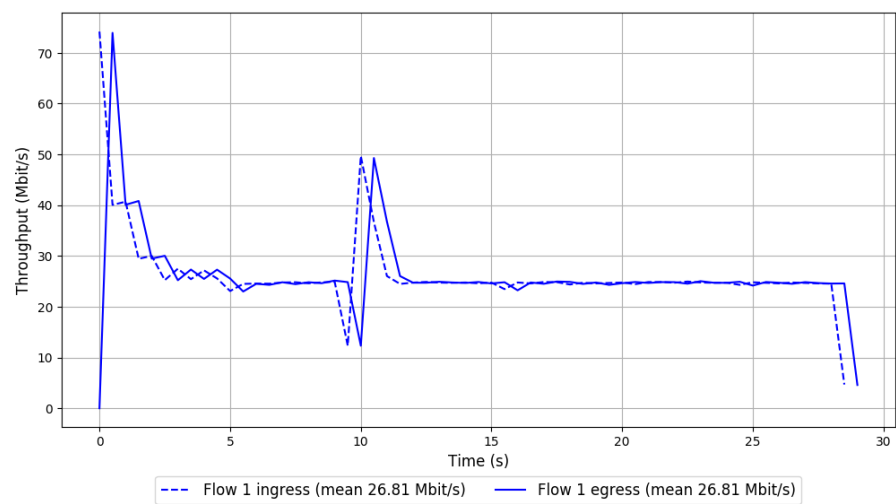
-- Flow 1:

Average throughput: 26.81 Mbit/s

95th percentile per-packet one-way delay: 4.340 ms

Loss rate: 0.02%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

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

End at: 2019-02-11 23:07:37

Local clock offset: -6.545 ms

Remote clock offset: 1.317 ms

Below is generated by plot.py at 2019-02-12 00:36:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.32 Mbit/s

95th percentile per-packet one-way delay: 4.698 ms

Loss rate: 0.03%

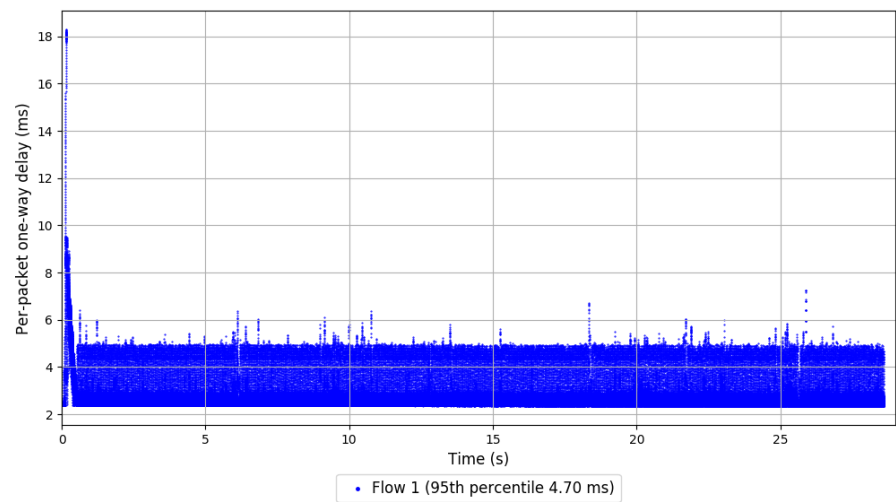
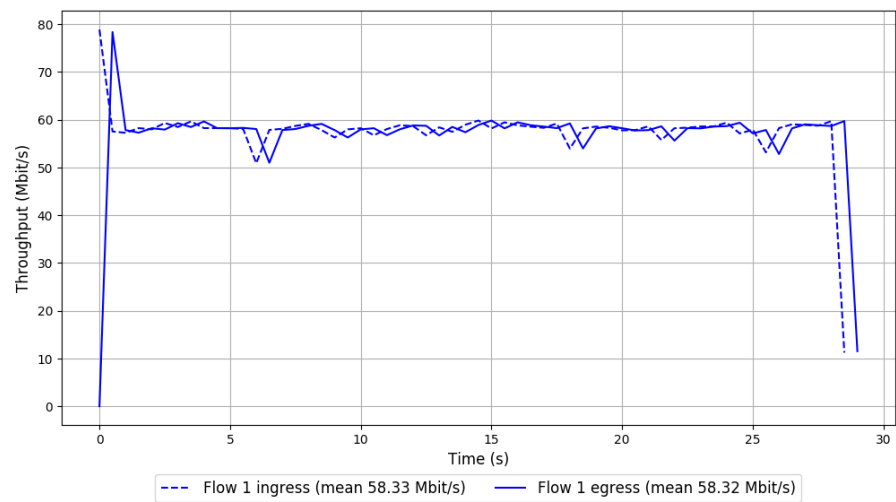
-- Flow 1:

Average throughput: 58.32 Mbit/s

95th percentile per-packet one-way delay: 4.698 ms

Loss rate: 0.03%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-02-11 23:30:48

End at: 2019-02-11 23:31:18

Local clock offset: -6.793 ms

Remote clock offset: 1.059 ms

Below is generated by plot.py at 2019-02-12 00:36:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.33 Mbit/s

95th percentile per-packet one-way delay: 3.051 ms

Loss rate: 0.01%

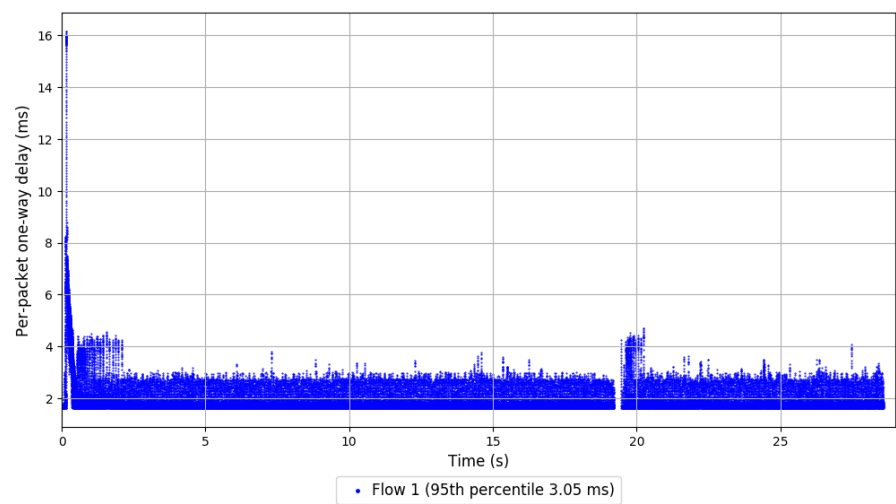
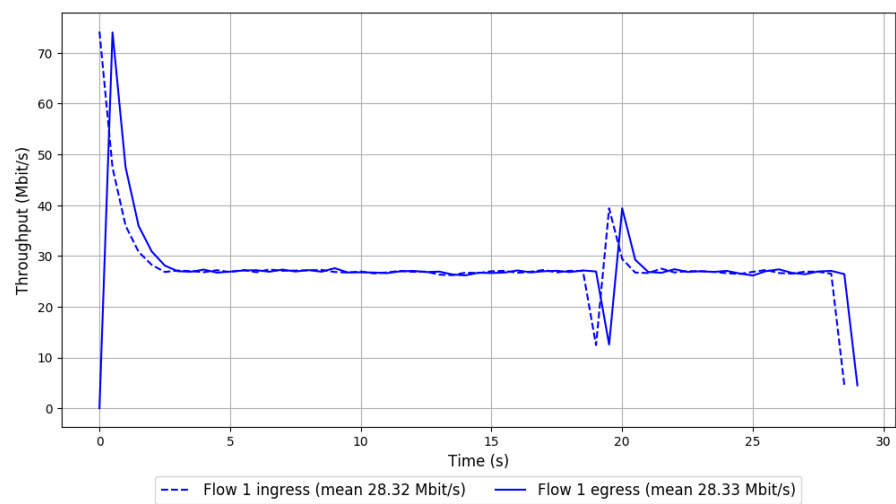
-- Flow 1:

Average throughput: 28.33 Mbit/s

95th percentile per-packet one-way delay: 3.051 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-02-11 23:54:26

End at: 2019-02-11 23:54:56

Local clock offset: -5.876 ms

Remote clock offset: 0.808 ms

Below is generated by plot.py at 2019-02-12 00:36:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.87 Mbit/s

95th percentile per-packet one-way delay: 4.270 ms

Loss rate: 0.02%

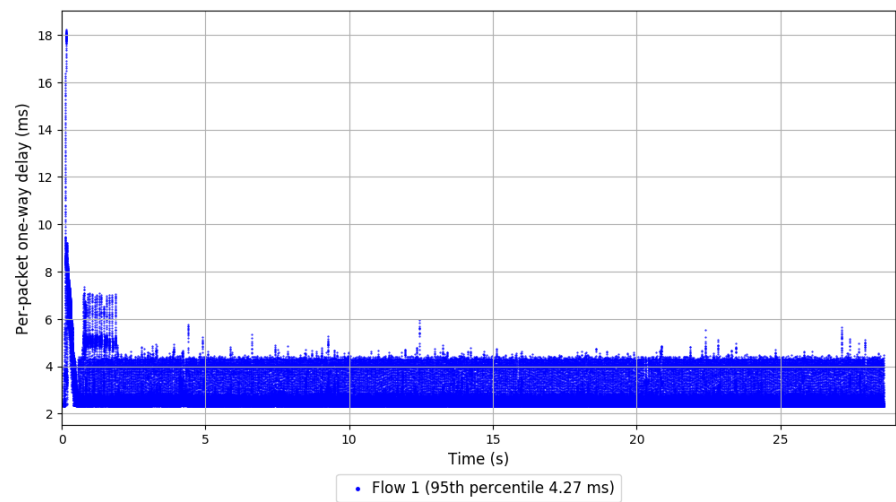
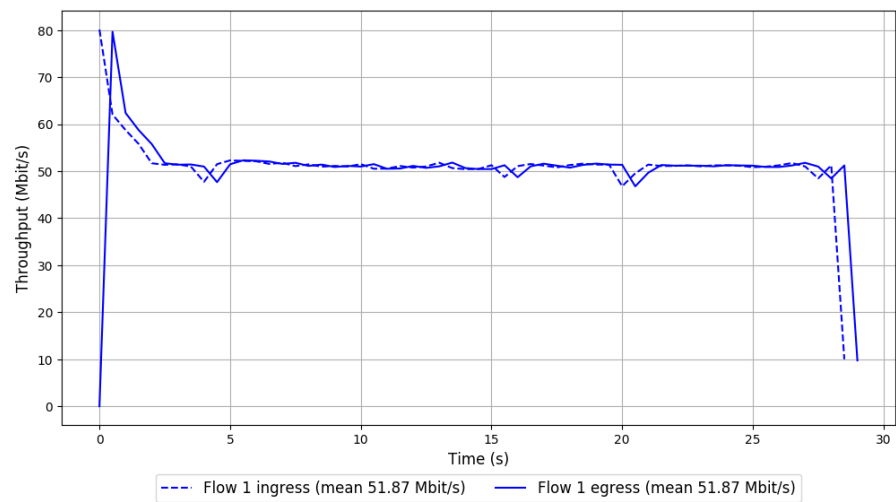
-- Flow 1:

Average throughput: 51.87 Mbit/s

95th percentile per-packet one-way delay: 4.270 ms

Loss rate: 0.02%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

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

End at: 2019-02-12 00:18:42

Local clock offset: -2.064 ms

Remote clock offset: 0.378 ms

Below is generated by plot.py at 2019-02-12 00:36:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.94 Mbit/s

95th percentile per-packet one-way delay: 4.206 ms

Loss rate: 0.01%

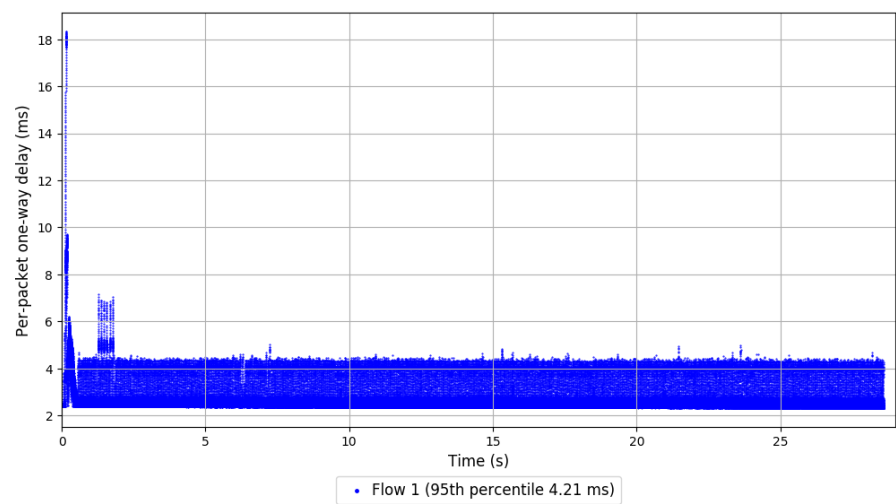
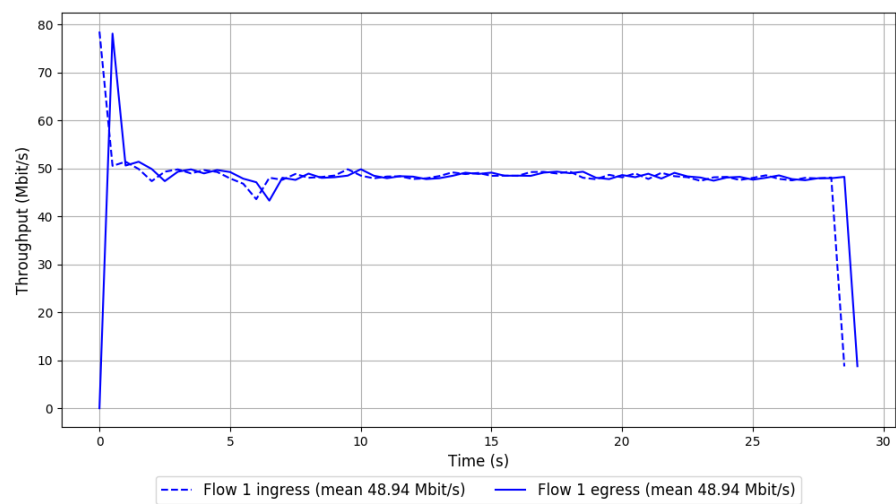
-- Flow 1:

Average throughput: 48.94 Mbit/s

95th percentile per-packet one-way delay: 4.206 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-02-11 22:37:47

End at: 2019-02-11 22:38:17

Local clock offset: -6.694 ms

Remote clock offset: 1.416 ms

Below is generated by plot.py at 2019-02-12 00:37:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.45 Mbit/s

95th percentile per-packet one-way delay: 5.426 ms

Loss rate: 0.02%

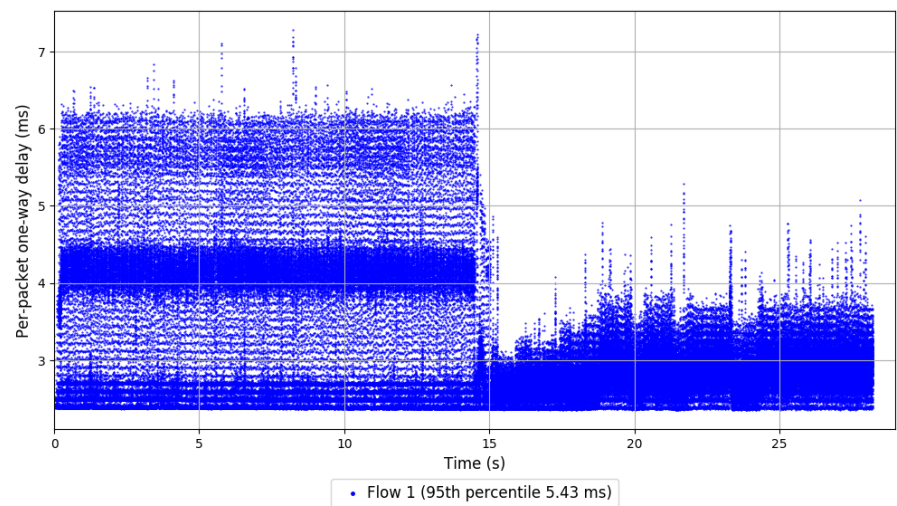
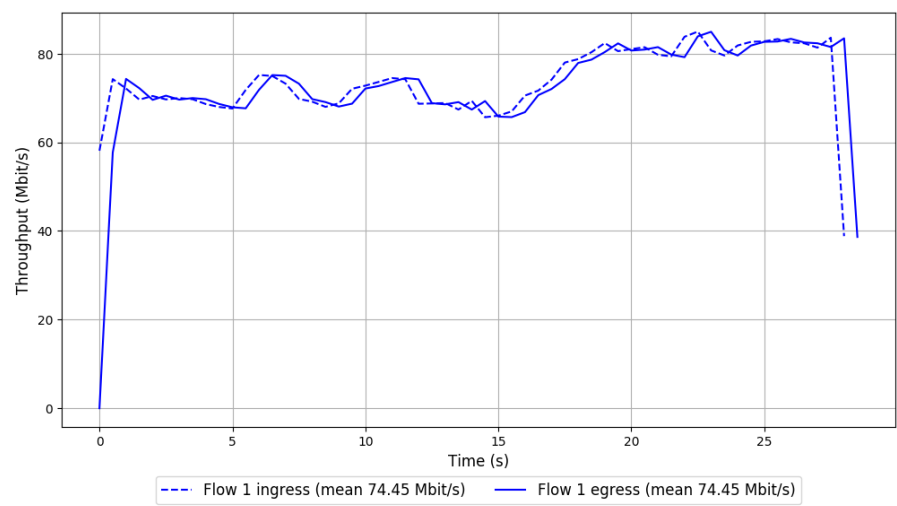
-- Flow 1:

Average throughput: 74.45 Mbit/s

95th percentile per-packet one-way delay: 5.426 ms

Loss rate: 0.02%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-02-11 23:01:25

End at: 2019-02-11 23:01:55

Local clock offset: -6.8 ms

Remote clock offset: 1.275 ms

Below is generated by plot.py at 2019-02-12 00:37:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.29 Mbit/s

95th percentile per-packet one-way delay: 3.087 ms

Loss rate: 0.01%

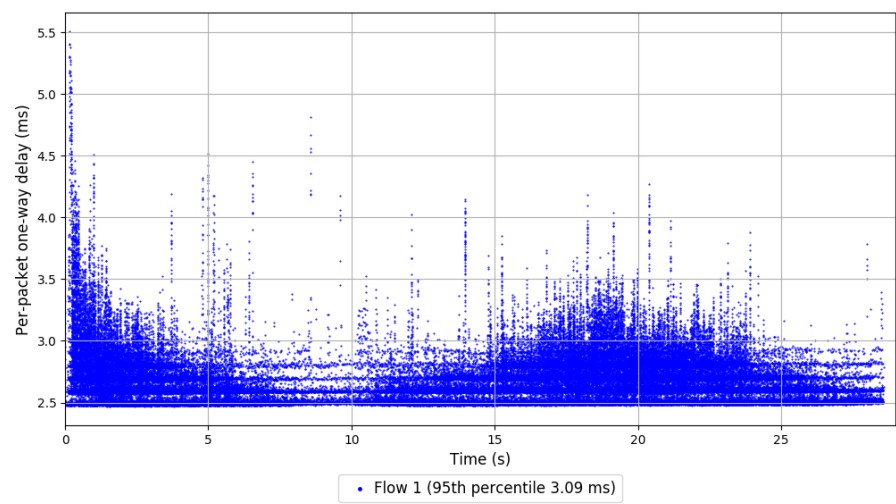
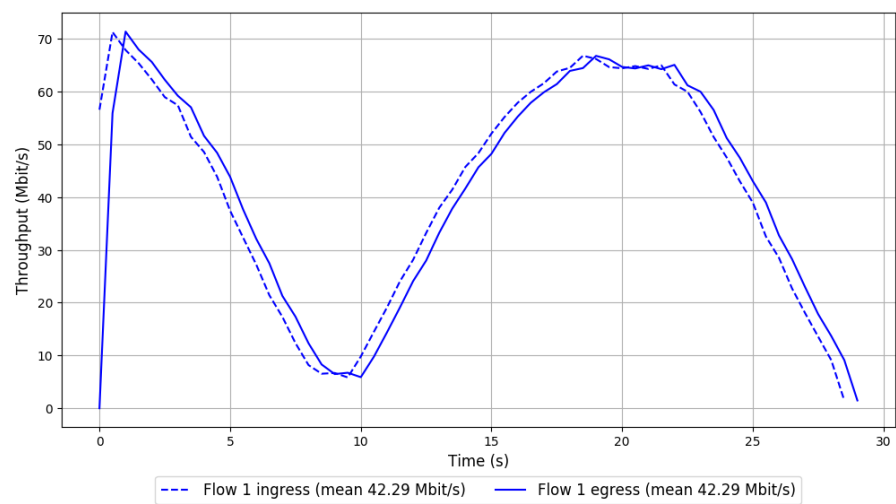
-- Flow 1:

Average throughput: 42.29 Mbit/s

95th percentile per-packet one-way delay: 3.087 ms

Loss rate: 0.01%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-02-11 23:25:05

End at: 2019-02-11 23:25:35

Local clock offset: -6.731 ms

Remote clock offset: 1.122 ms

Below is generated by plot.py at 2019-02-12 00:37:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.93 Mbit/s

95th percentile per-packet one-way delay: 2.344 ms

Loss rate: 0.03%

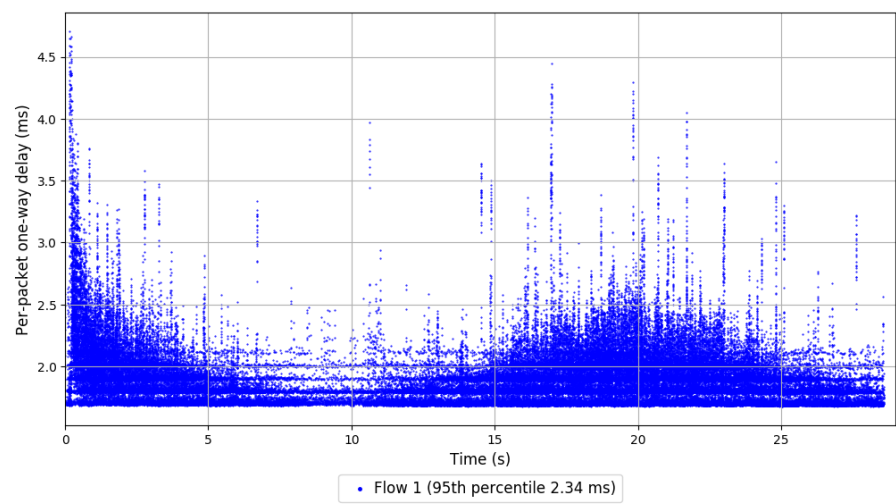
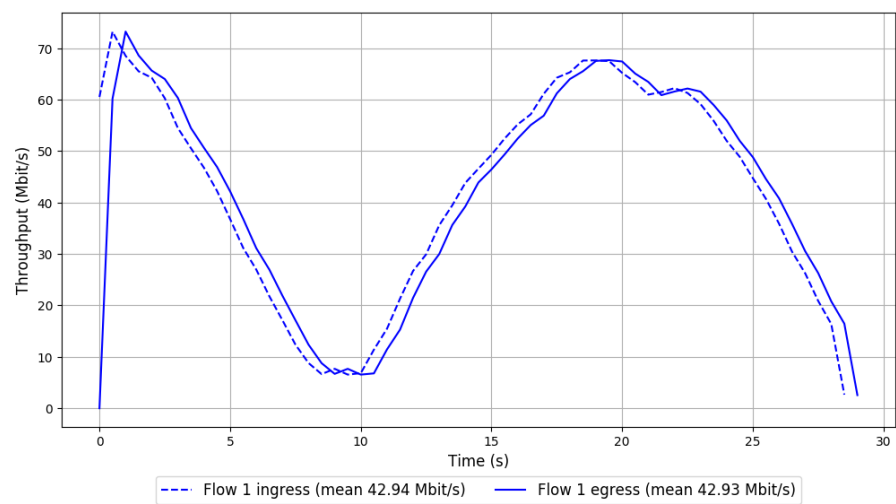
-- Flow 1:

Average throughput: 42.93 Mbit/s

95th percentile per-packet one-way delay: 2.344 ms

Loss rate: 0.03%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-02-11 23:48:44

End at: 2019-02-11 23:49:14

Local clock offset: -6.615 ms

Remote clock offset: 0.878 ms

Below is generated by plot.py at 2019-02-12 00:37:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.84 Mbit/s

95th percentile per-packet one-way delay: 2.292 ms

Loss rate: 0.02%

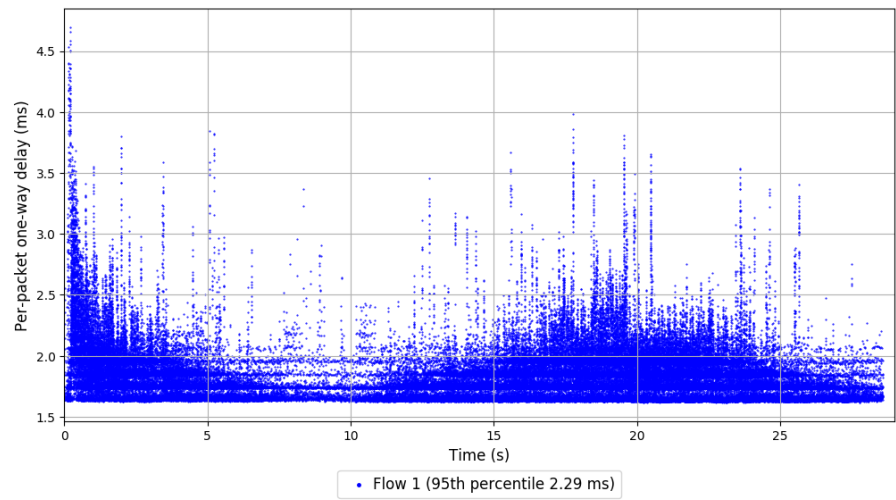
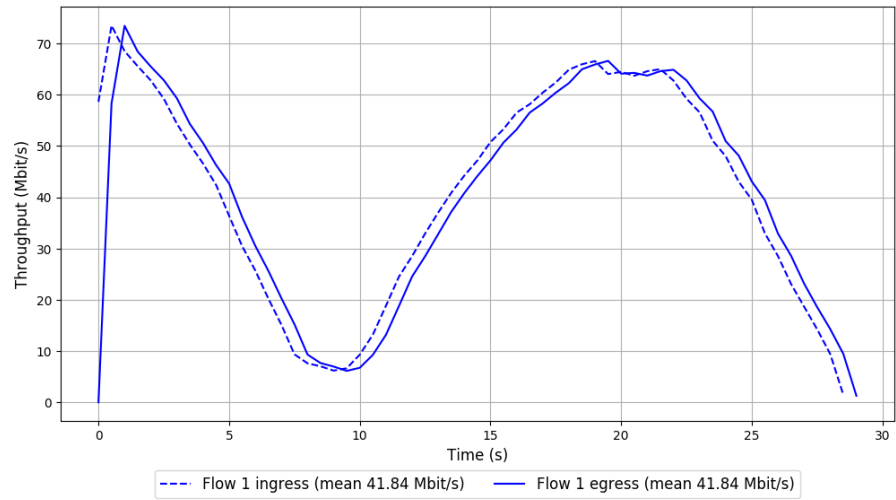
-- Flow 1:

Average throughput: 41.84 Mbit/s

95th percentile per-packet one-way delay: 2.292 ms

Loss rate: 0.02%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

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

End at: 2019-02-12 00:12:58

Local clock offset: -3.07 ms

Remote clock offset: 0.476 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.71 Mbit/s

95th percentile per-packet one-way delay: 4.796 ms

Loss rate: 0.02%

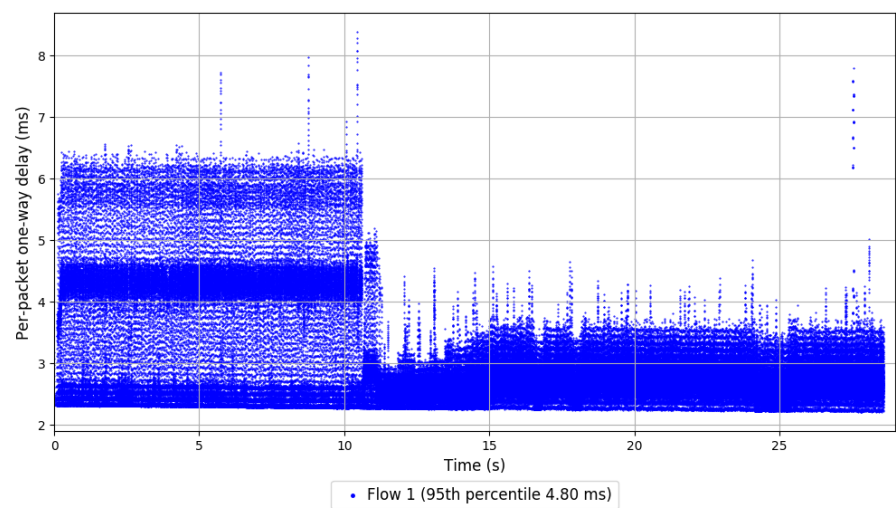
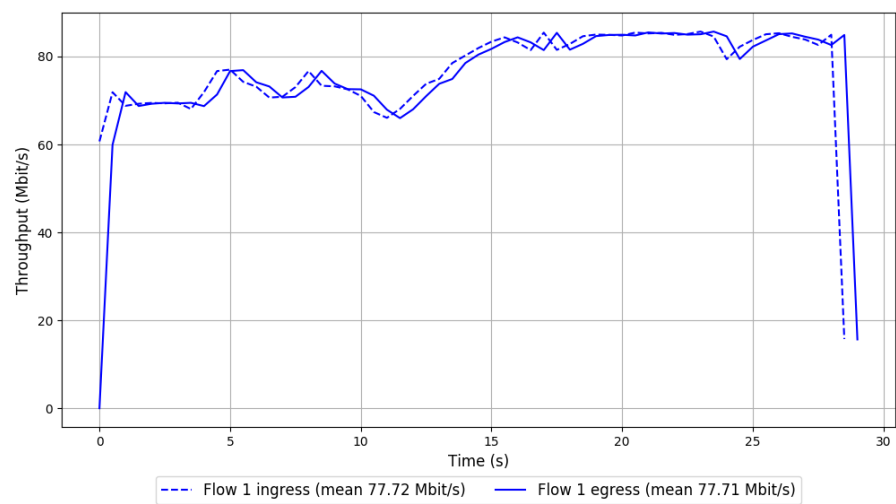
-- Flow 1:

Average throughput: 77.71 Mbit/s

95th percentile per-packet one-way delay: 4.796 ms

Loss rate: 0.02%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-02-11 22:53:34

End at: 2019-02-11 22:54:04

Local clock offset: -7.366 ms

Remote clock offset: 1.293 ms

Below is generated by plot.py at 2019-02-12 00:37:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.50 Mbit/s

95th percentile per-packet one-way delay: 2.677 ms

Loss rate: 0.02%

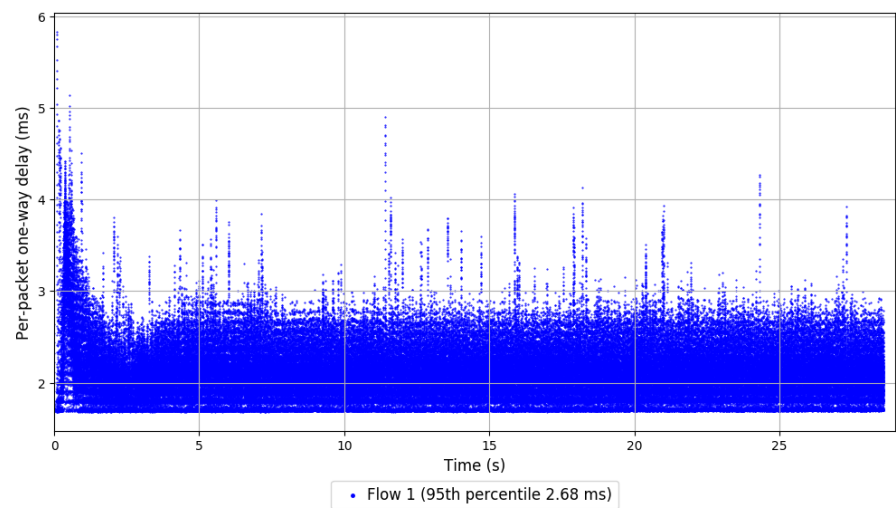
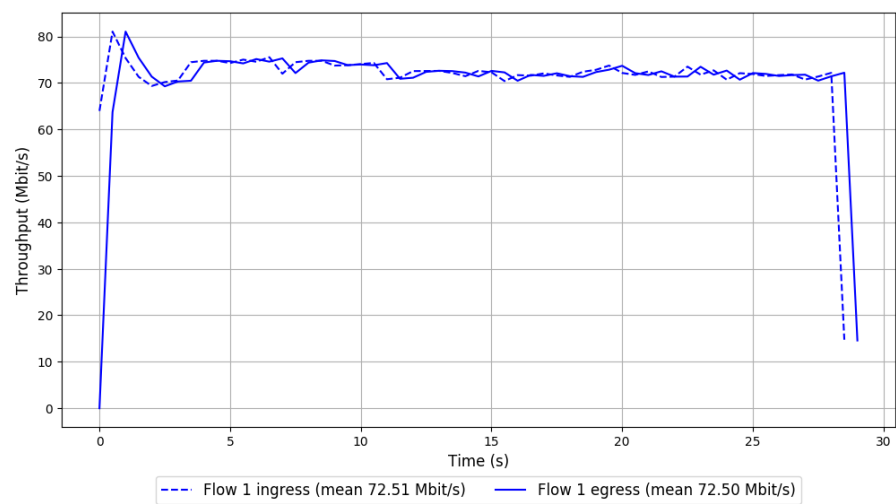
-- Flow 1:

Average throughput: 72.50 Mbit/s

95th percentile per-packet one-way delay: 2.677 ms

Loss rate: 0.02%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-02-11 23:17:18

End at: 2019-02-11 23:17:48

Local clock offset: -6.793 ms

Remote clock offset: 1.218 ms

Below is generated by plot.py at 2019-02-12 00:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.61 Mbit/s

95th percentile per-packet one-way delay: 2.786 ms

Loss rate: 0.03%

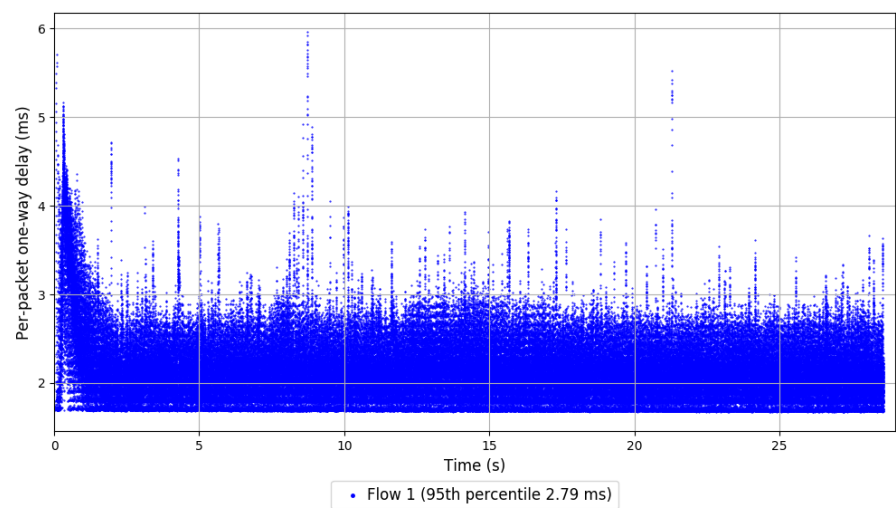
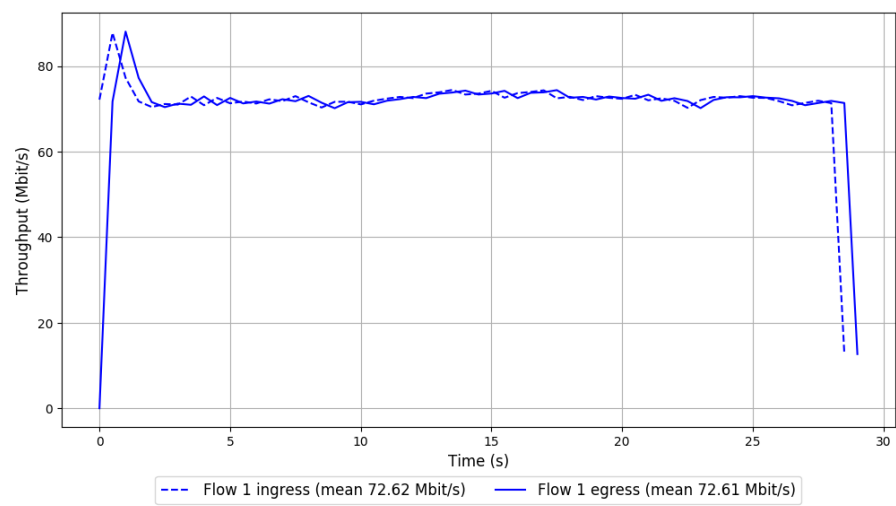
-- Flow 1:

Average throughput: 72.61 Mbit/s

95th percentile per-packet one-way delay: 2.786 ms

Loss rate: 0.03%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

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

End at: 2019-02-11 23:41:25

Local clock offset: -5.851 ms

Remote clock offset: 0.968 ms

Below is generated by plot.py at 2019-02-12 00:37:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.14 Mbit/s

95th percentile per-packet one-way delay: 3.981 ms

Loss rate: 0.04%

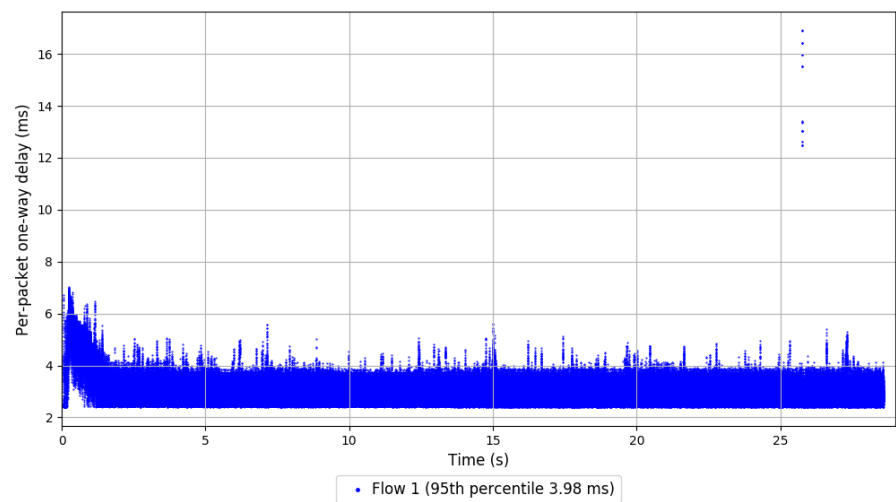
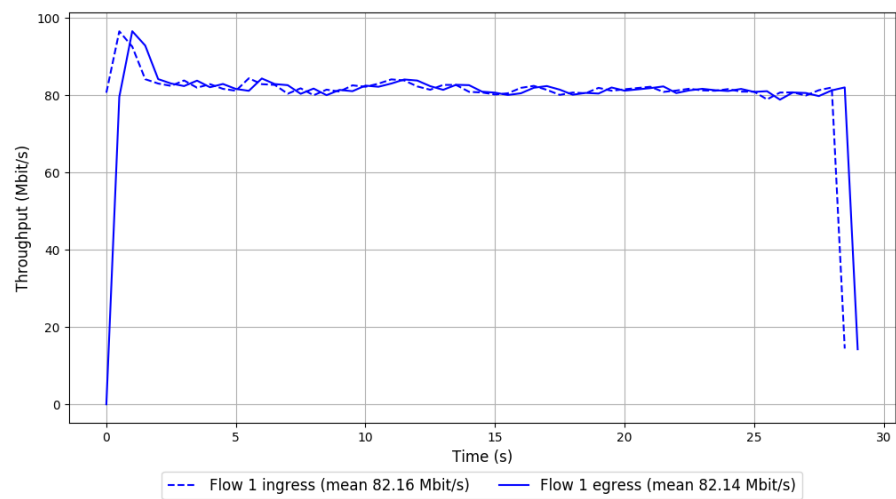
-- Flow 1:

Average throughput: 82.14 Mbit/s

95th percentile per-packet one-way delay: 3.981 ms

Loss rate: 0.04%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-02-12 00:04:37

End at: 2019-02-12 00:05:07

Local clock offset: -6.425 ms

Remote clock offset: 0.591 ms

Below is generated by plot.py at 2019-02-12 00:37:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.15 Mbit/s

95th percentile per-packet one-way delay: 2.726 ms

Loss rate: 0.02%

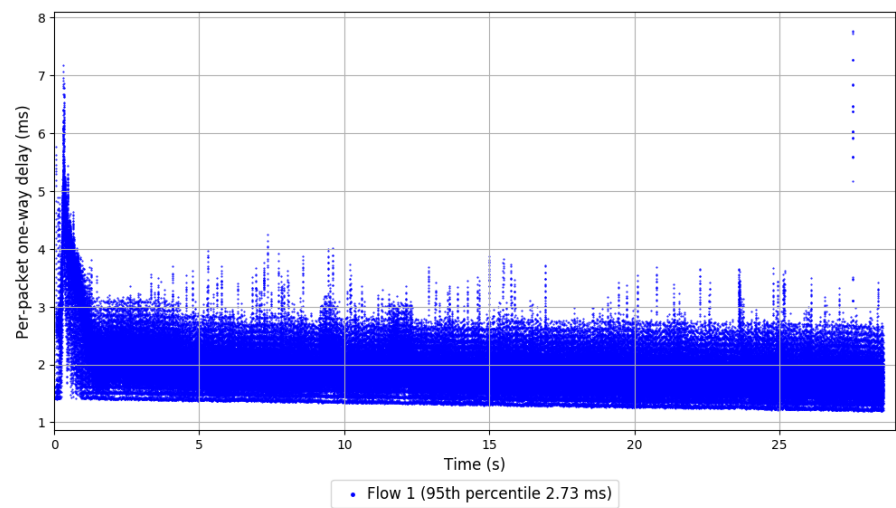
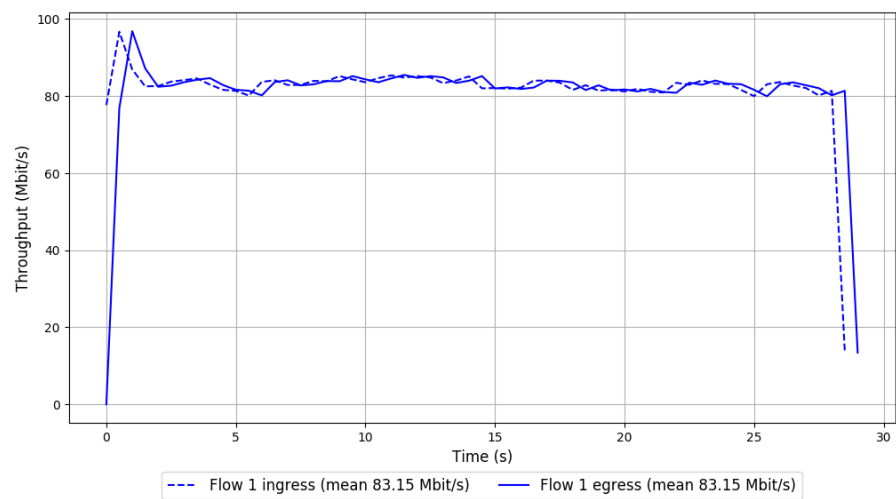
-- Flow 1:

Average throughput: 83.15 Mbit/s

95th percentile per-packet one-way delay: 2.726 ms

Loss rate: 0.02%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-02-12 00:28:22

End at: 2019-02-12 00:28:52

Local clock offset: -1.889 ms

Remote clock offset: 0.208 ms

Below is generated by plot.py at 2019-02-12 00:37:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.32 Mbit/s

95th percentile per-packet one-way delay: 2.683 ms

Loss rate: 0.02%

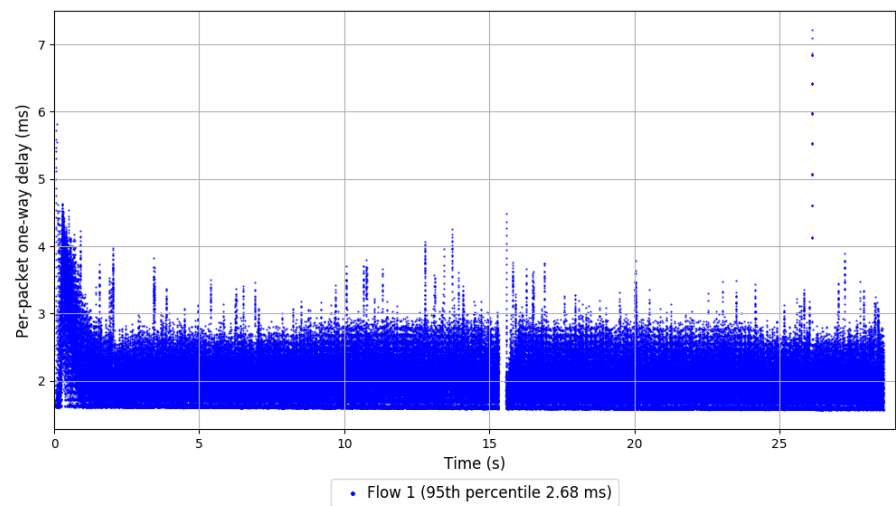
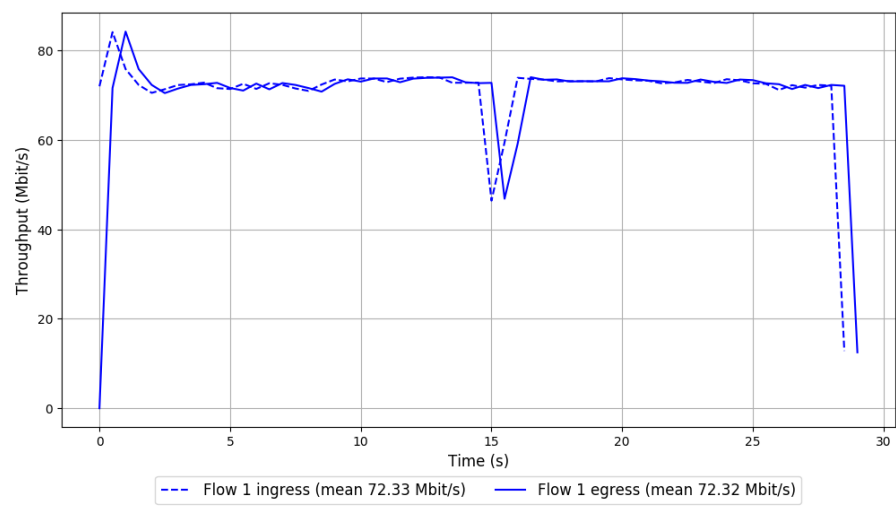
-- Flow 1:

Average throughput: 72.32 Mbit/s

95th percentile per-packet one-way delay: 2.683 ms

Loss rate: 0.02%

Run 5: Report of Indigo-MusesT — Data Link

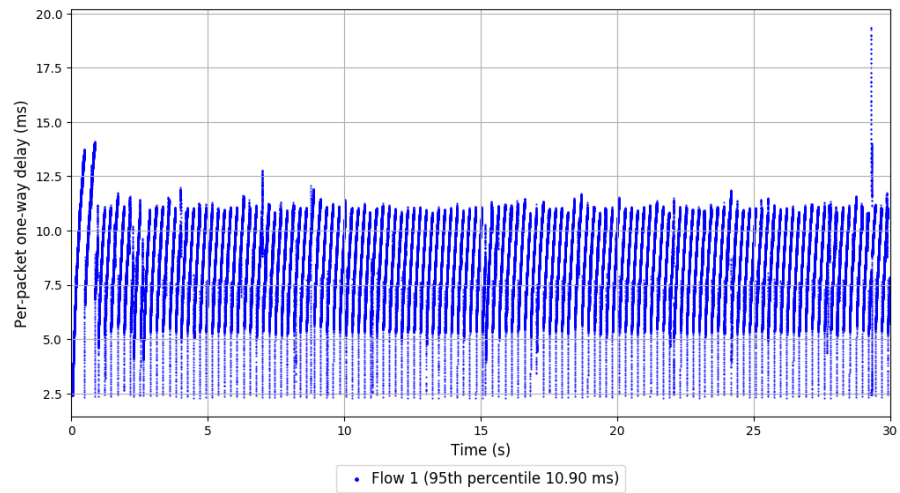
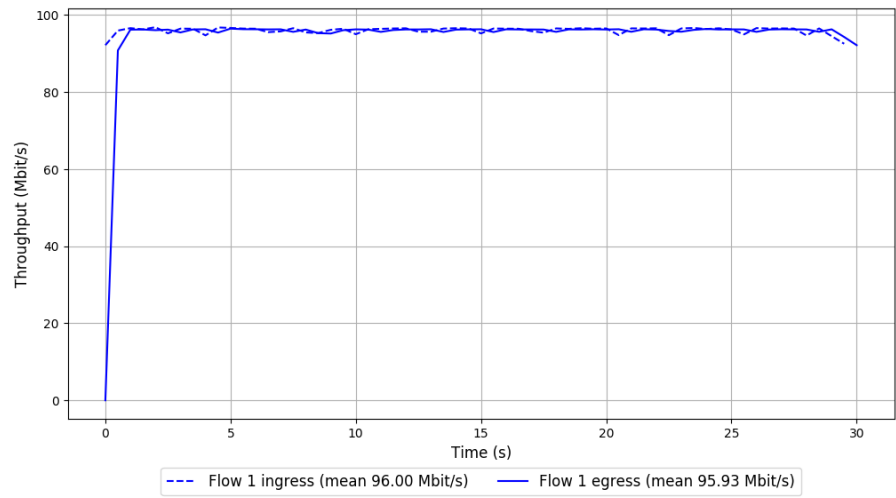


```
Run 1: Statistics of LEDBAT

Start at: 2019-02-11 22:49:05
End at: 2019-02-11 22:49:35
Local clock offset: -6.526 ms
Remote clock offset: 1.35 ms

# Below is generated by plot.py at 2019-02-12 00:38:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.93 Mbit/s
95th percentile per-packet one-way delay: 10.896 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 95.93 Mbit/s
95th percentile per-packet one-way delay: 10.896 ms
Loss rate: 0.09%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-02-11 23:12:45

End at: 2019-02-11 23:13:15

Local clock offset: -6.987 ms

Remote clock offset: 1.342 ms

Below is generated by plot.py at 2019-02-12 00:38:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.07 Mbit/s

95th percentile per-packet one-way delay: 9.923 ms

Loss rate: 0.10%

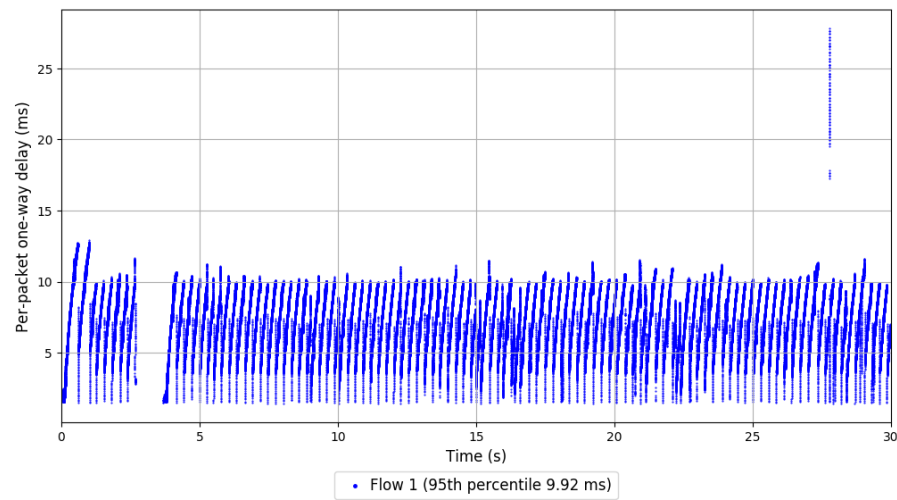
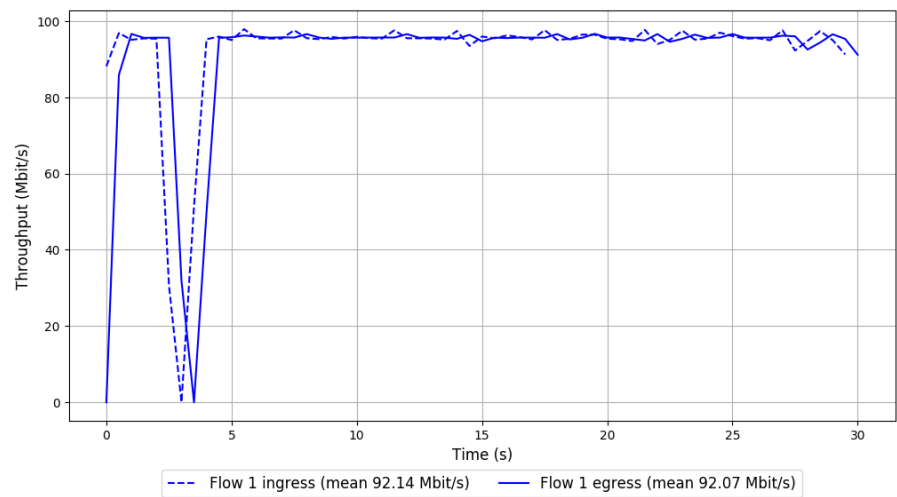
-- Flow 1:

Average throughput: 92.07 Mbit/s

95th percentile per-packet one-way delay: 9.923 ms

Loss rate: 0.10%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-02-11 23:36:25

End at: 2019-02-11 23:36:55

Local clock offset: -6.701 ms

Remote clock offset: 1.023 ms

Below is generated by plot.py at 2019-02-12 00:38:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.99 Mbit/s

95th percentile per-packet one-way delay: 10.166 ms

Loss rate: 0.09%

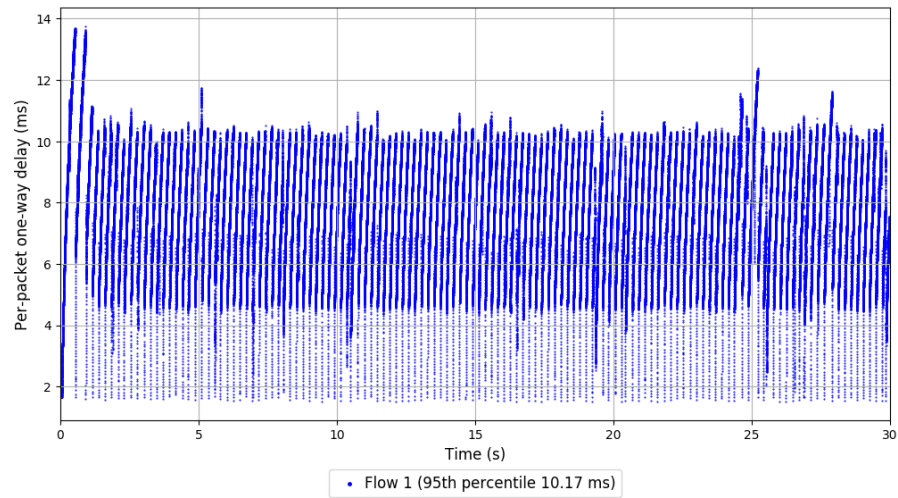
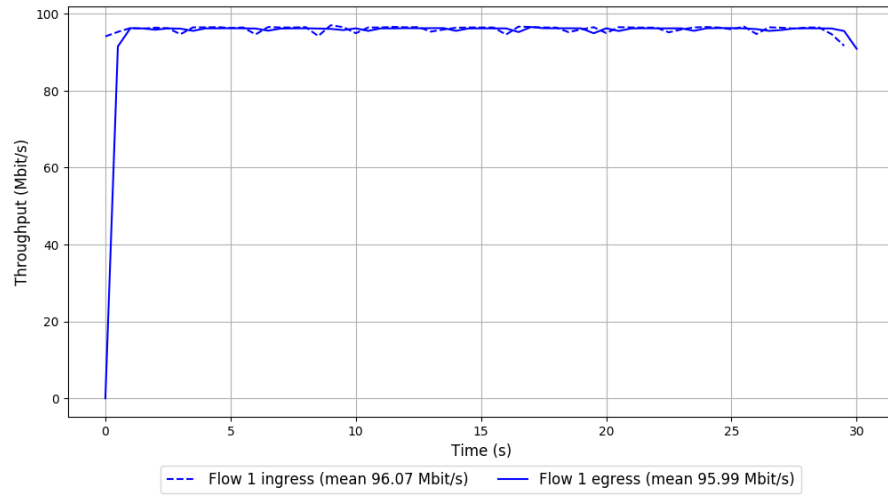
-- Flow 1:

Average throughput: 95.99 Mbit/s

95th percentile per-packet one-way delay: 10.166 ms

Loss rate: 0.09%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

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

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

Local clock offset: -6.574 ms

Remote clock offset: 0.68 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.49 Mbit/s

95th percentile per-packet one-way delay: 9.924 ms

Loss rate: 0.07%

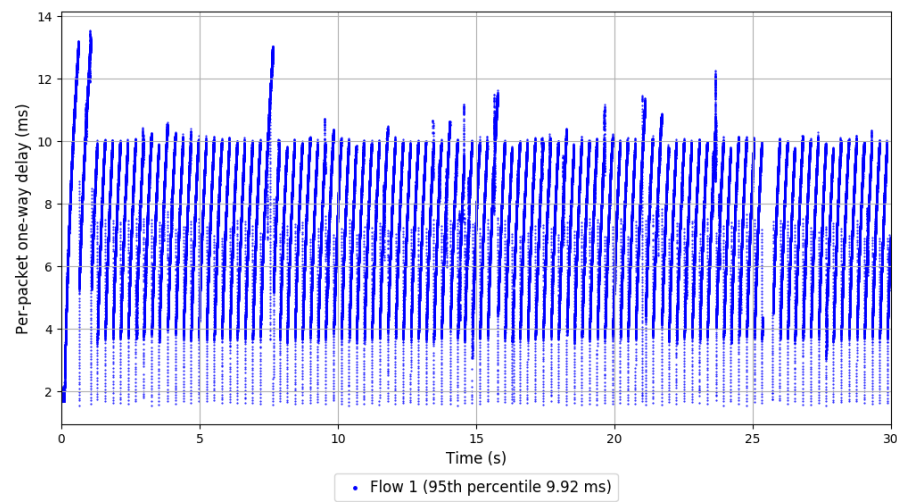
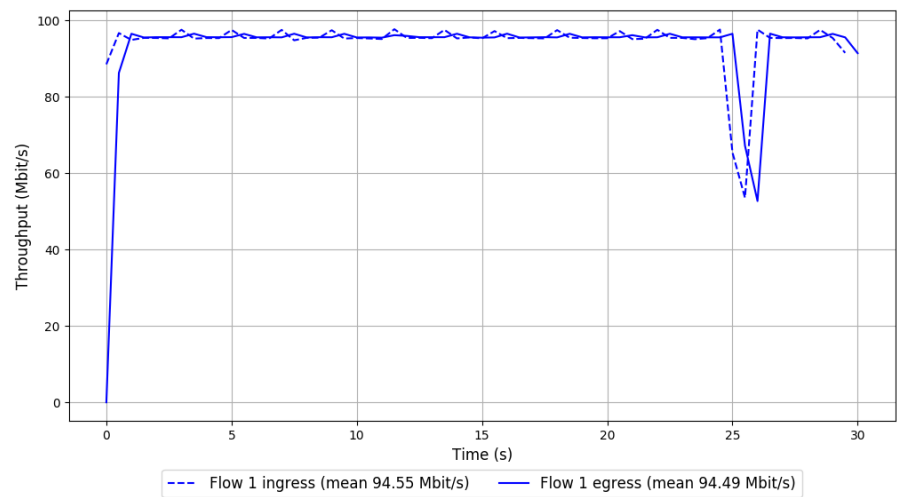
-- Flow 1:

Average throughput: 94.49 Mbit/s

95th percentile per-packet one-way delay: 9.924 ms

Loss rate: 0.07%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-02-12 00:23:50

End at: 2019-02-12 00:24:20

Local clock offset: -1.514 ms

Remote clock offset: 0.345 ms

Below is generated by plot.py at 2019-02-12 00:38:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.98 Mbit/s

95th percentile per-packet one-way delay: 10.815 ms

Loss rate: 0.10%

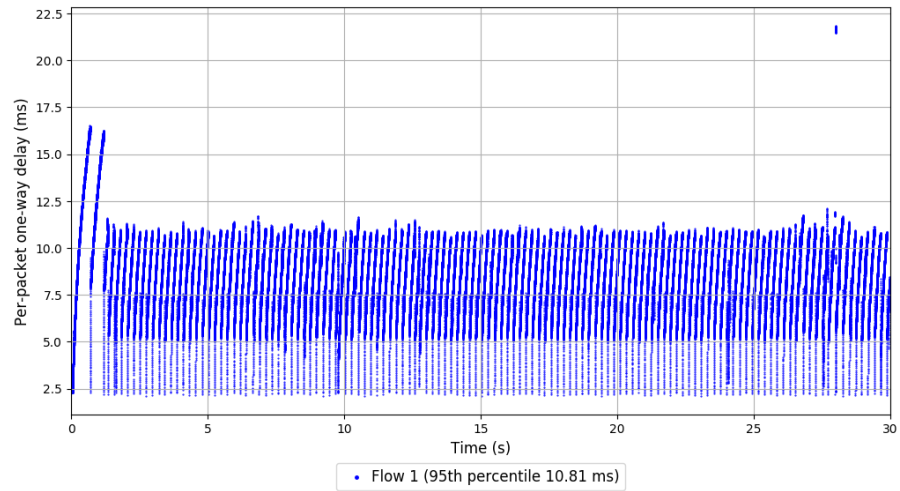
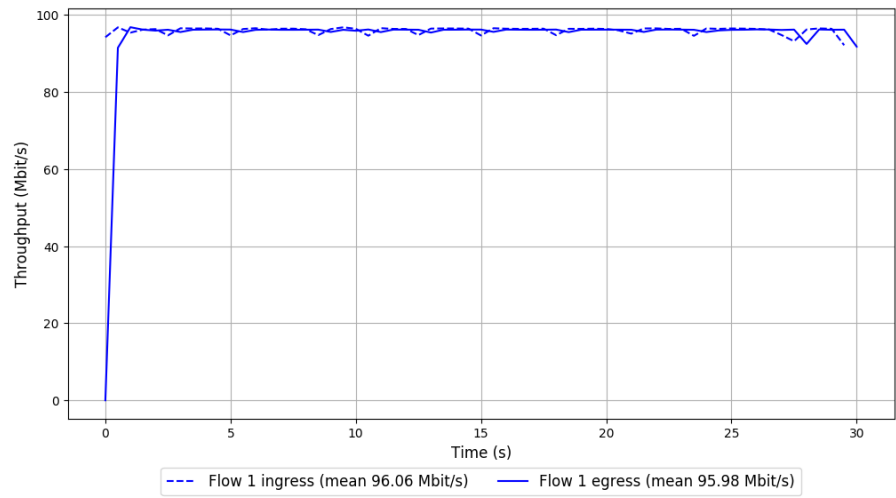
-- Flow 1:

Average throughput: 95.98 Mbit/s

95th percentile per-packet one-way delay: 10.815 ms

Loss rate: 0.10%

Run 5: Report of LEDBAT — Data Link

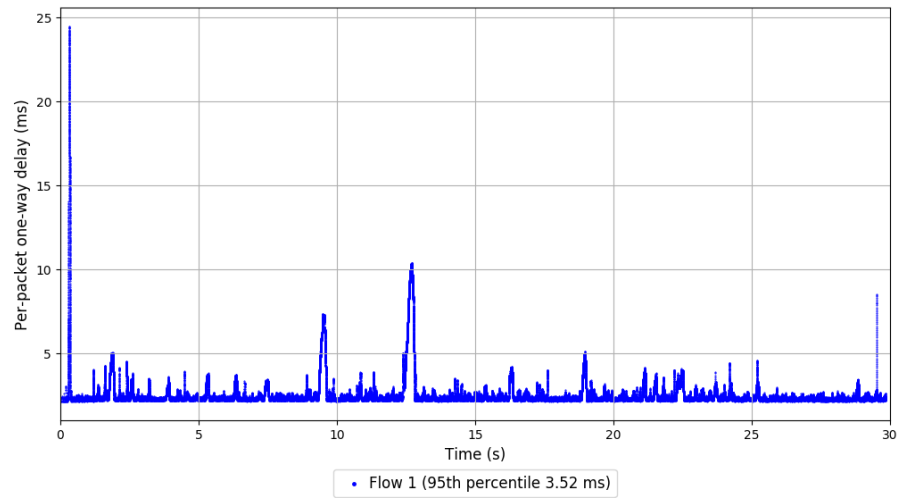
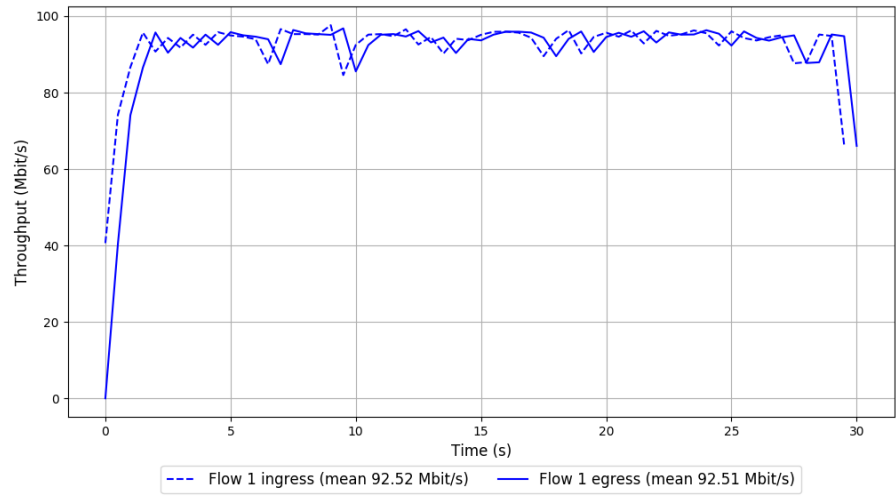


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-02-11 22:35:35
End at: 2019-02-11 22:36:05
Local clock offset: -6.88 ms
Remote clock offset: 1.481 ms

# Below is generated by plot.py at 2019-02-12 00:38:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.51 Mbit/s
95th percentile per-packet one-way delay: 3.519 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 92.51 Mbit/s
95th percentile per-packet one-way delay: 3.519 ms
Loss rate: 0.02%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-02-11 22:59:13

End at: 2019-02-11 22:59:43

Local clock offset: -7.557 ms

Remote clock offset: 1.328 ms

Below is generated by plot.py at 2019-02-12 00:38:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.36 Mbit/s

95th percentile per-packet one-way delay: 2.950 ms

Loss rate: 0.02%

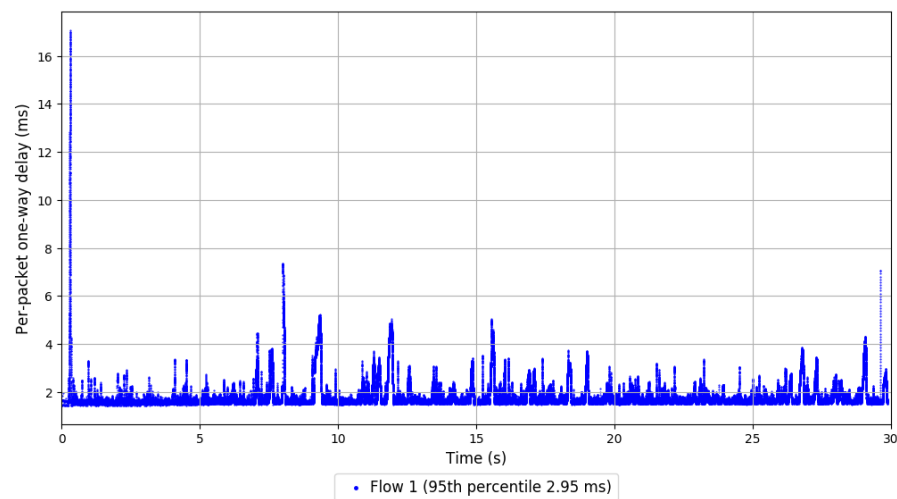
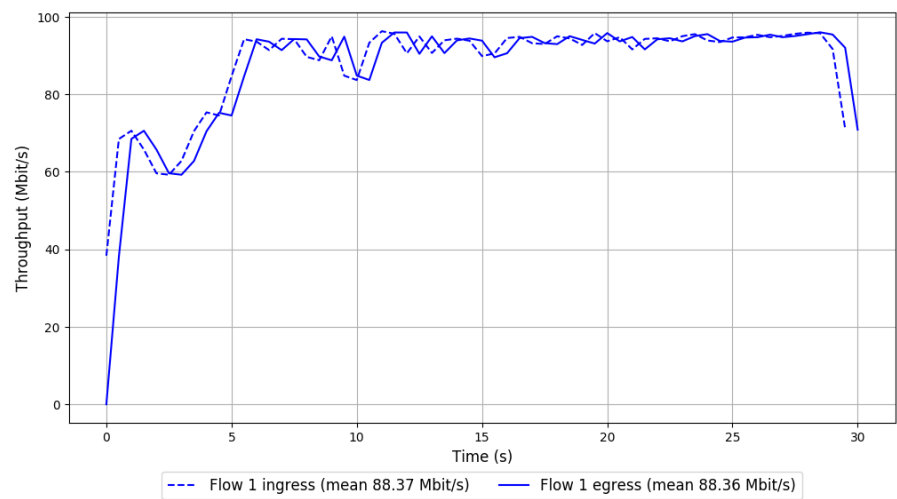
-- Flow 1:

Average throughput: 88.36 Mbit/s

95th percentile per-packet one-way delay: 2.950 ms

Loss rate: 0.02%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-02-11 23:22:54

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

Local clock offset: -6.727 ms

Remote clock offset: 1.151 ms

Below is generated by plot.py at 2019-02-12 00:38:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.87 Mbit/s

95th percentile per-packet one-way delay: 2.999 ms

Loss rate: 0.02%

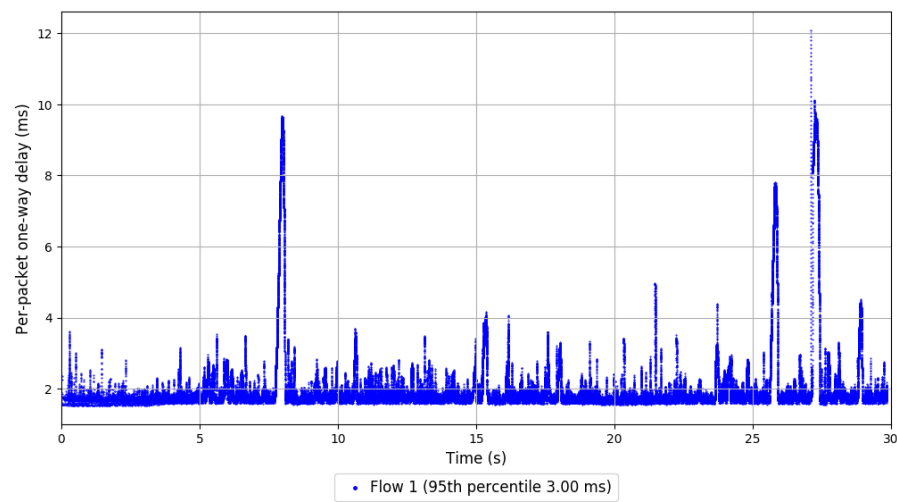
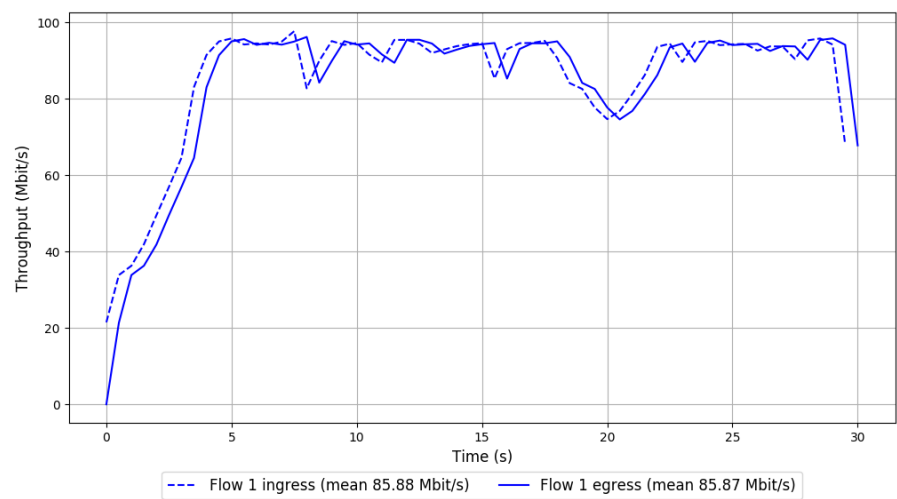
-- Flow 1:

Average throughput: 85.87 Mbit/s

95th percentile per-packet one-way delay: 2.999 ms

Loss rate: 0.02%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-02-11 23:46:33

End at: 2019-02-11 23:47:03

Local clock offset: -5.862 ms

Remote clock offset: 0.898 ms

Below is generated by plot.py at 2019-02-12 00:39:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.60 Mbit/s

95th percentile per-packet one-way delay: 3.586 ms

Loss rate: 0.04%

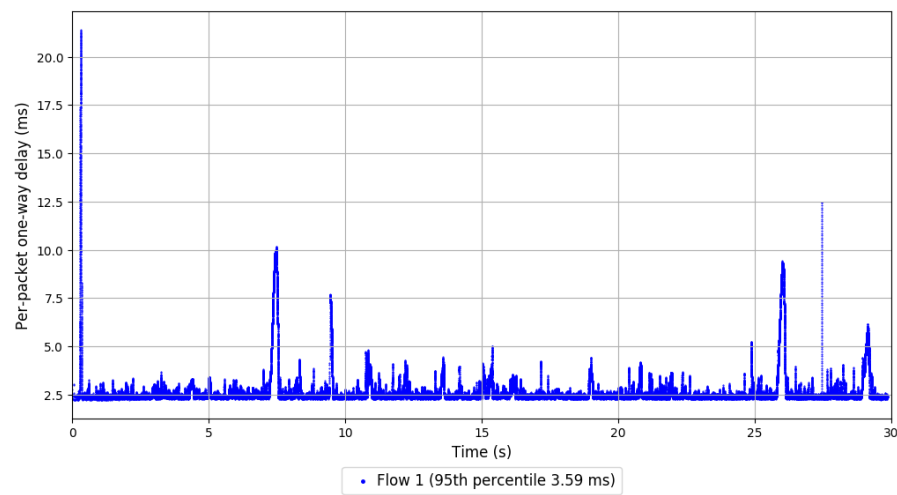
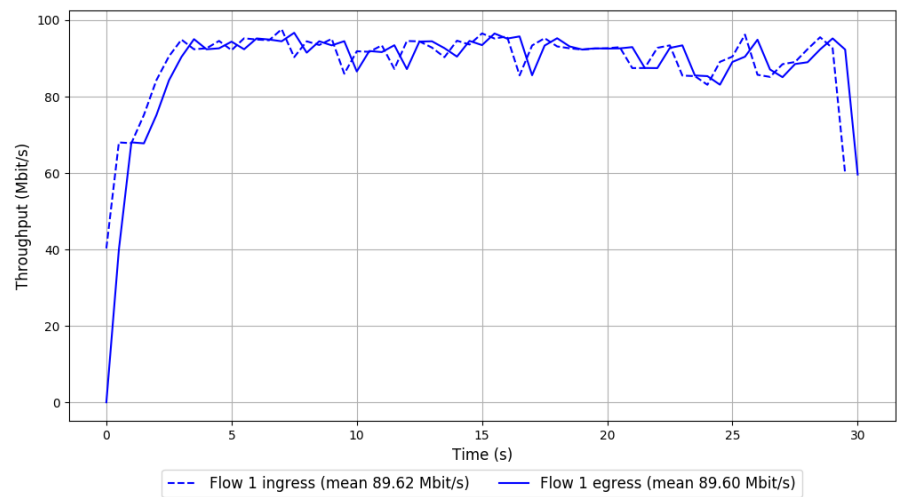
-- Flow 1:

Average throughput: 89.60 Mbit/s

95th percentile per-packet one-way delay: 3.586 ms

Loss rate: 0.04%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-02-12 00:10:17

End at: 2019-02-12 00:10:47

Local clock offset: -4.417 ms

Remote clock offset: 0.551 ms

Below is generated by plot.py at 2019-02-12 00:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.51 Mbit/s

95th percentile per-packet one-way delay: 2.256 ms

Loss rate: 0.02%

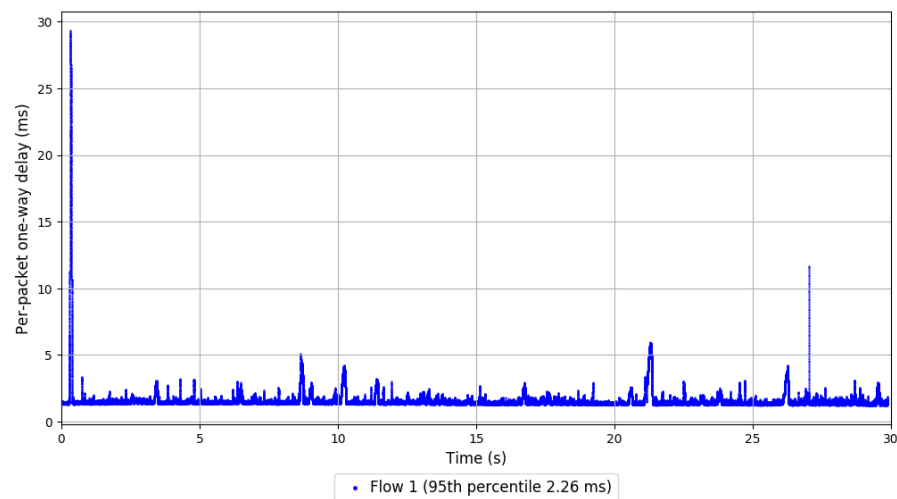
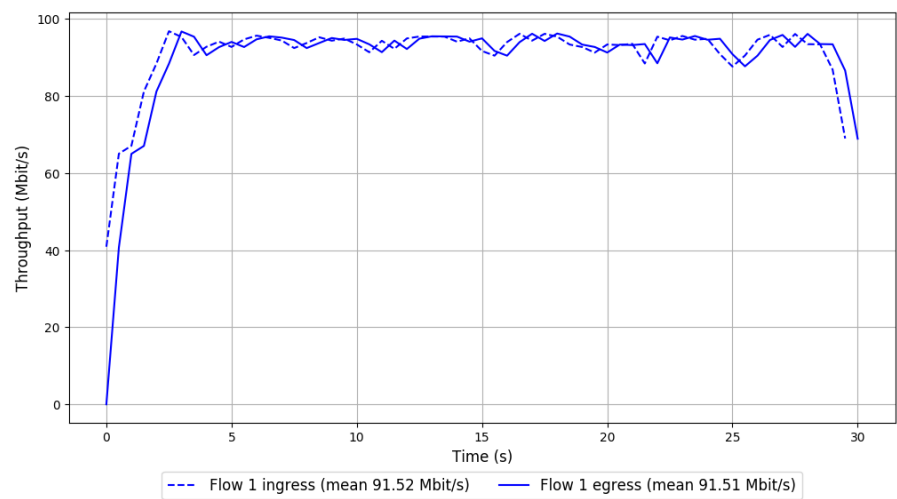
-- Flow 1:

Average throughput: 91.51 Mbit/s

95th percentile per-packet one-way delay: 2.256 ms

Loss rate: 0.02%

Run 5: Report of PCC-Allegro — Data Link

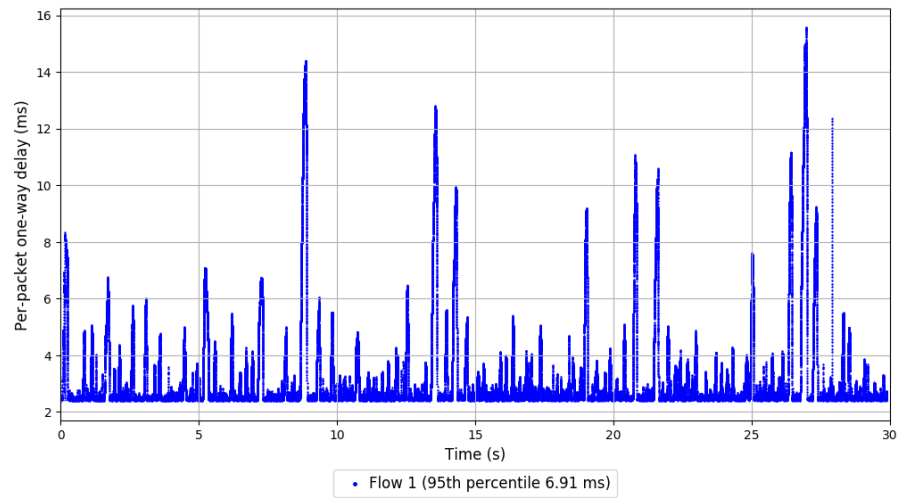
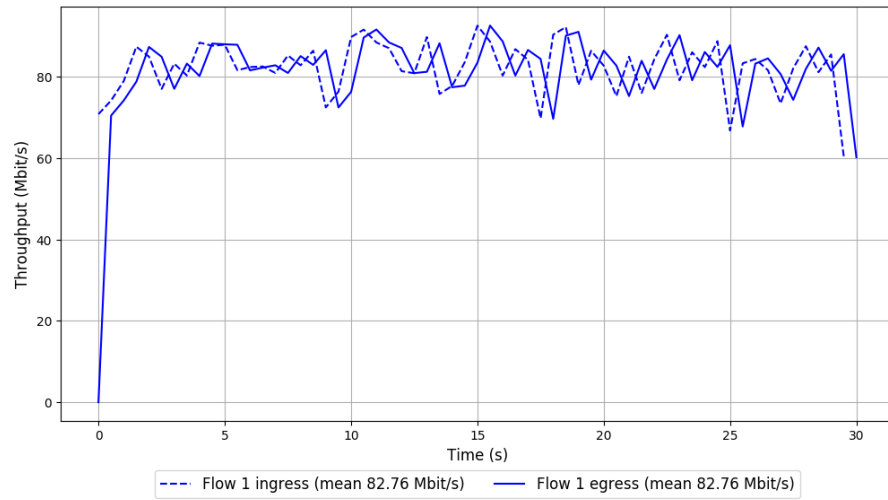



```
Run 1: Statistics of PCC-Expr

Start at: 2019-02-11 22:47:54
End at: 2019-02-11 22:48:24
Local clock offset: -6.581 ms
Remote clock offset: 1.261 ms

# Below is generated by plot.py at 2019-02-12 00:40:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.76 Mbit/s
95th percentile per-packet one-way delay: 6.907 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 82.76 Mbit/s
95th percentile per-packet one-way delay: 6.907 ms
Loss rate: 0.02%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

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

End at: 2019-02-11 23:12:04

Local clock offset: -6.229 ms

Remote clock offset: 1.354 ms

Below is generated by plot.py at 2019-02-12 00:40:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.44 Mbit/s

95th percentile per-packet one-way delay: 504.992 ms

Loss rate: 0.63%

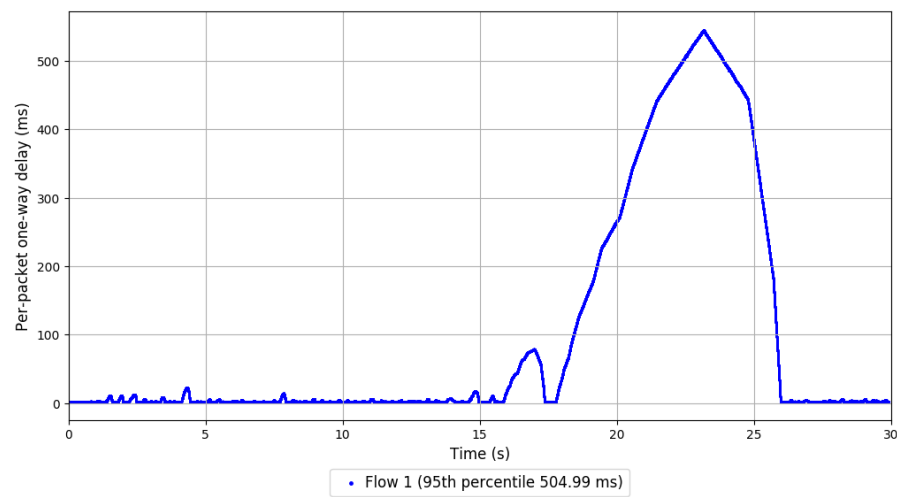
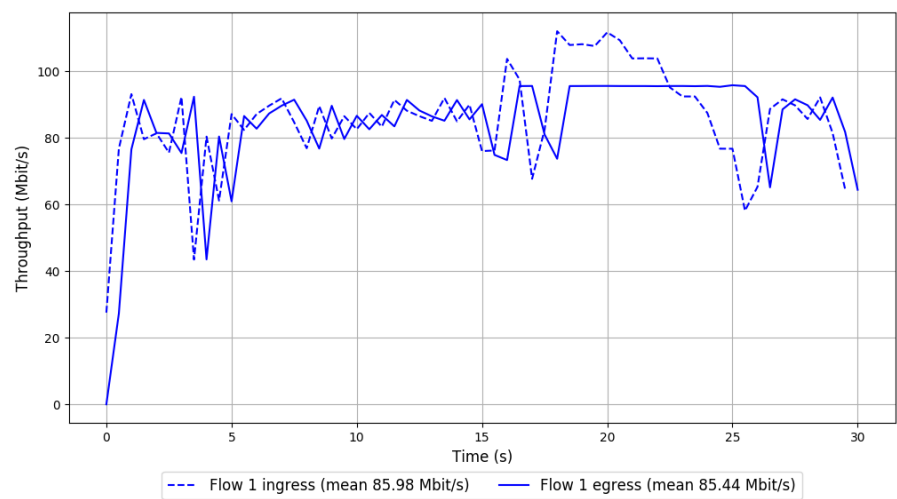
-- Flow 1:

Average throughput: 85.44 Mbit/s

95th percentile per-packet one-way delay: 504.992 ms

Loss rate: 0.63%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-02-11 23:35:15

End at: 2019-02-11 23:35:45

Local clock offset: -6.732 ms

Remote clock offset: 1.026 ms

Below is generated by plot.py at 2019-02-12 00:40:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.92 Mbit/s

95th percentile per-packet one-way delay: 66.935 ms

Loss rate: 0.07%

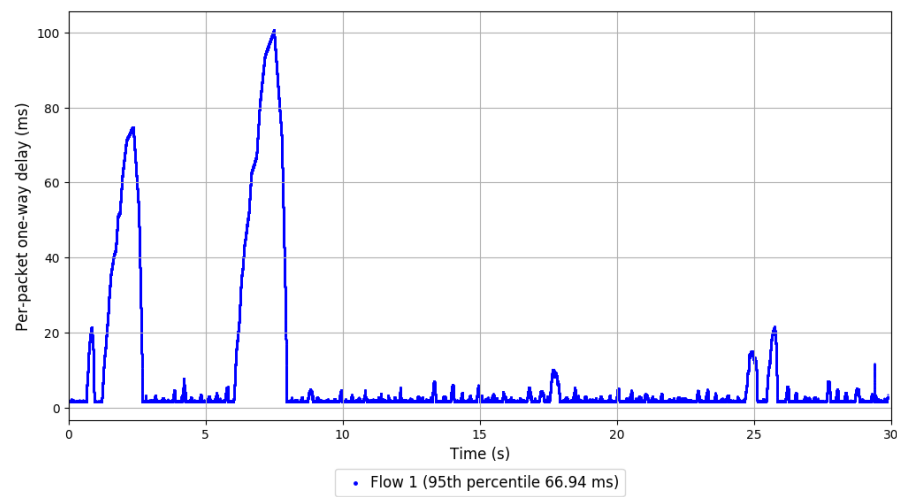
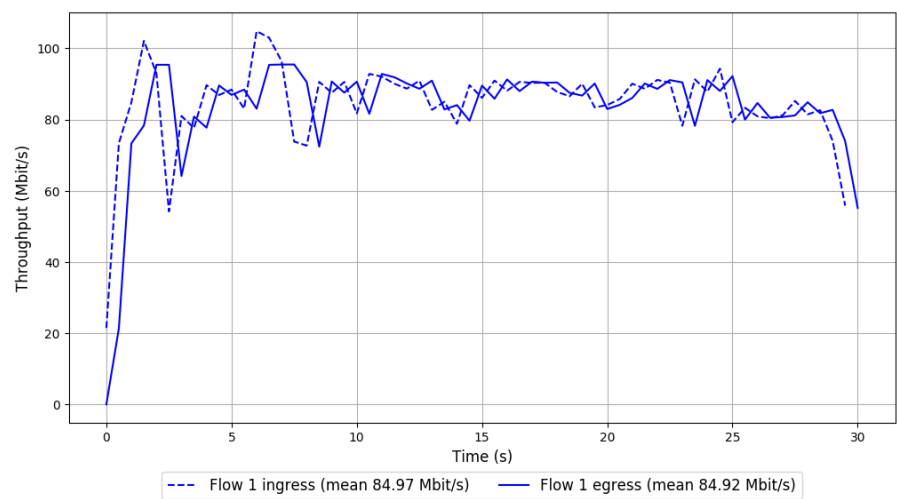
-- Flow 1:

Average throughput: 84.92 Mbit/s

95th percentile per-packet one-way delay: 66.935 ms

Loss rate: 0.07%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-02-11 23:58:53

End at: 2019-02-11 23:59:24

Local clock offset: -6.581 ms

Remote clock offset: 0.711 ms

Below is generated by plot.py at 2019-02-12 00:40:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.99 Mbit/s

95th percentile per-packet one-way delay: 241.906 ms

Loss rate: 0.24%

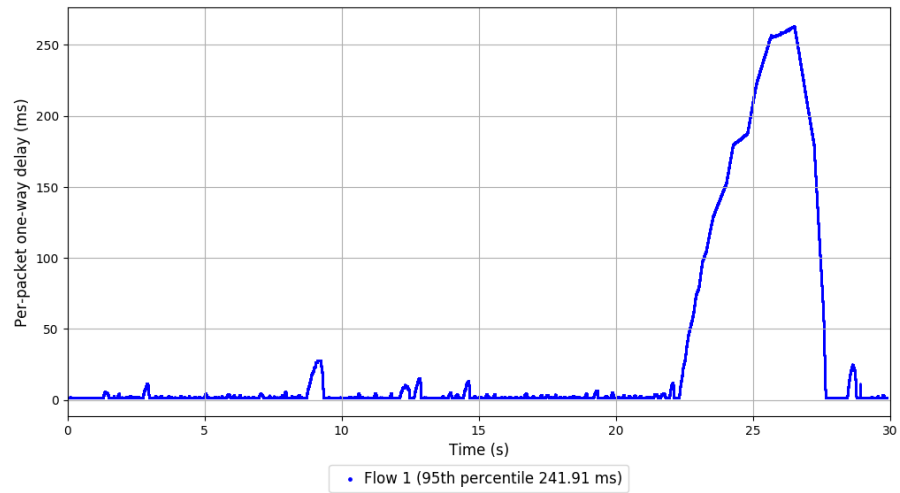
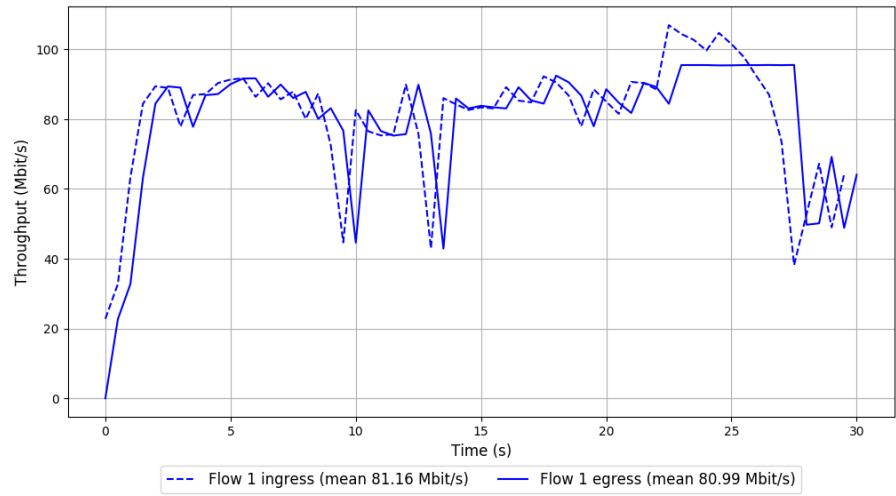
-- Flow 1:

Average throughput: 80.99 Mbit/s

95th percentile per-packet one-way delay: 241.906 ms

Loss rate: 0.24%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-02-12 00:22:39

End at: 2019-02-12 00:23:09

Local clock offset: -2.336 ms

Remote clock offset: 0.228 ms

Below is generated by plot.py at 2019-02-12 00:40:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.92 Mbit/s

95th percentile per-packet one-way delay: 632.564 ms

Loss rate: 2.66%

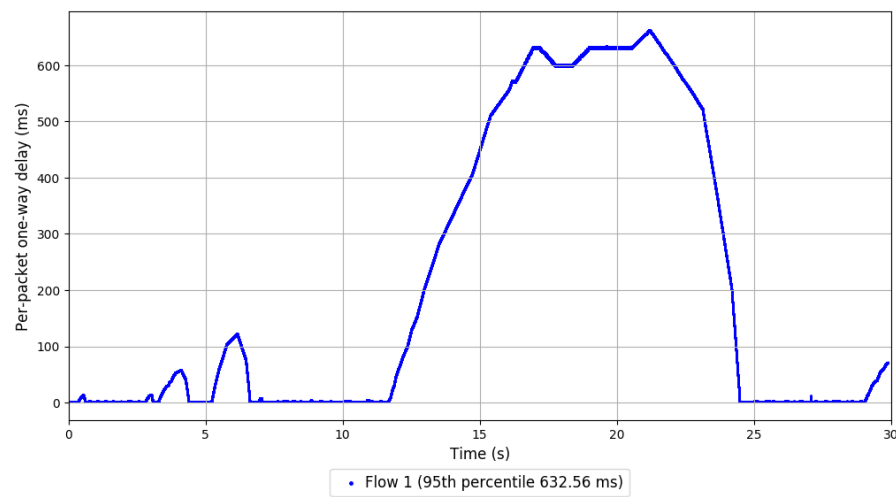
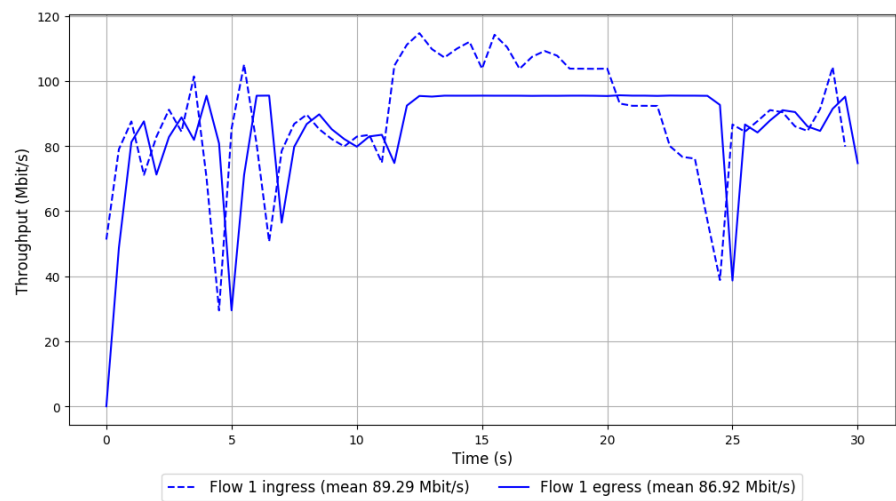
-- Flow 1:

Average throughput: 86.92 Mbit/s

95th percentile per-packet one-way delay: 632.564 ms

Loss rate: 2.66%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

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

End at: 2019-02-11 22:42:52

Local clock offset: -7.289 ms

Remote clock offset: 1.429 ms

Below is generated by plot.py at 2019-02-12 00:40:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.24 Mbit/s

95th percentile per-packet one-way delay: 6.774 ms

Loss rate: 0.03%

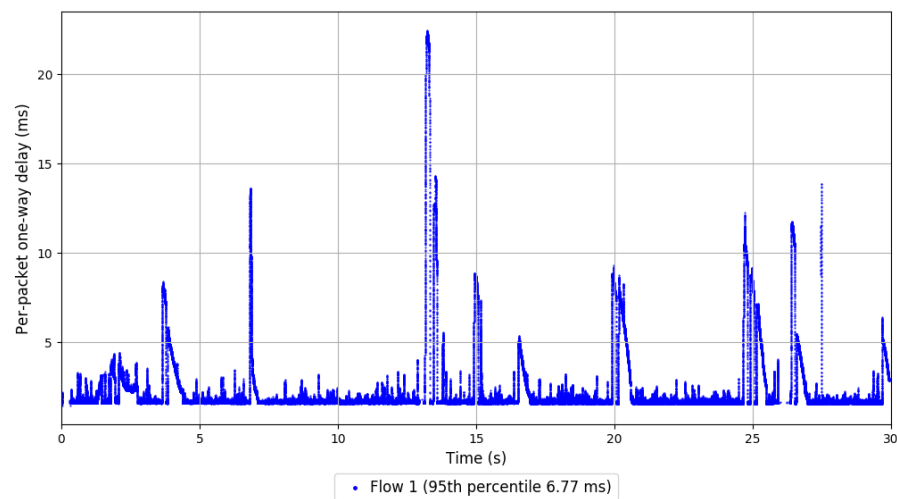
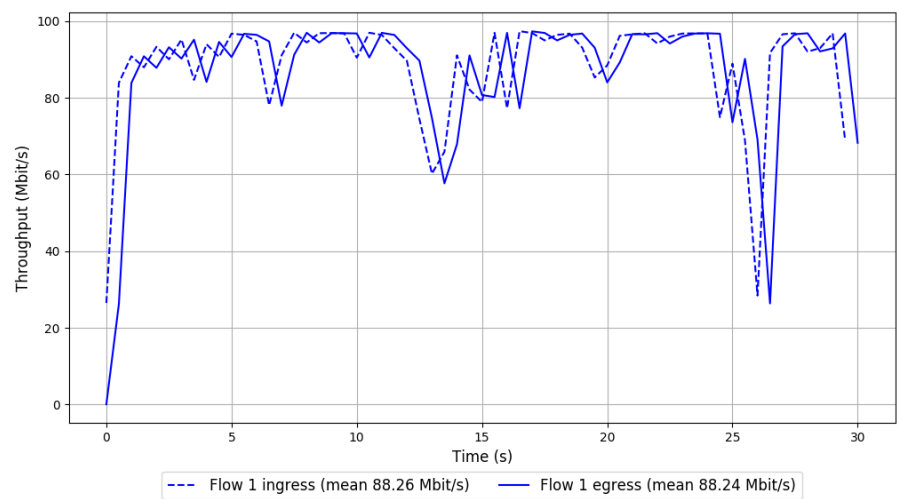
-- Flow 1:

Average throughput: 88.24 Mbit/s

95th percentile per-packet one-way delay: 6.774 ms

Loss rate: 0.03%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-02-11 23:05:59

End at: 2019-02-11 23:06:29

Local clock offset: -7.388 ms

Remote clock offset: 1.301 ms

Below is generated by plot.py at 2019-02-12 00:40:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.81 Mbit/s

95th percentile per-packet one-way delay: 6.447 ms

Loss rate: 0.03%

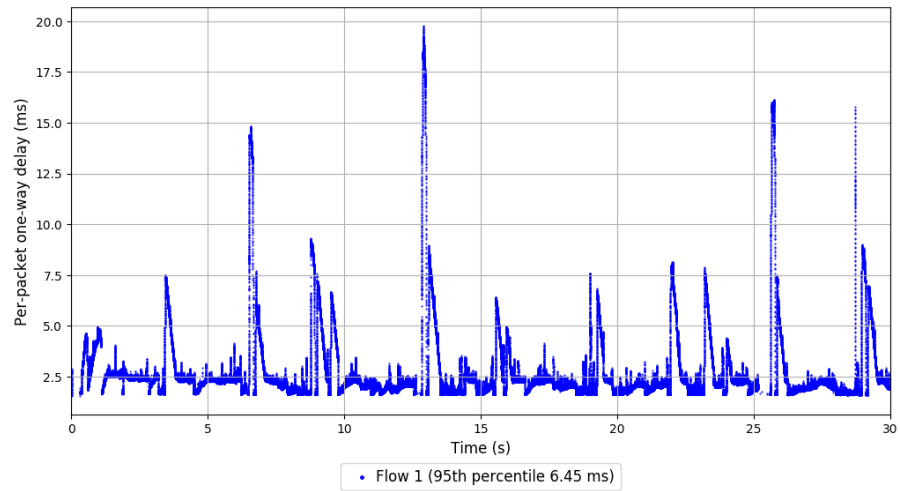
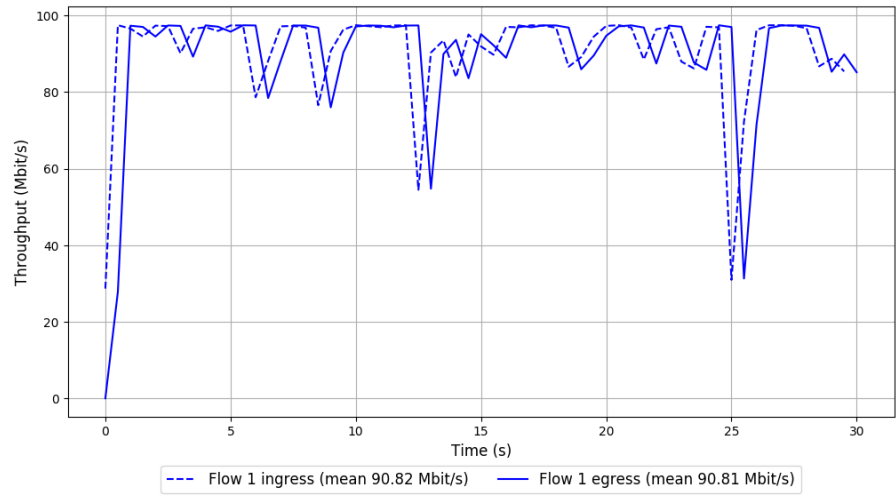
-- Flow 1:

Average throughput: 90.81 Mbit/s

95th percentile per-packet one-way delay: 6.447 ms

Loss rate: 0.03%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-02-11 23:29:40

End at: 2019-02-11 23:30:10

Local clock offset: -6.736 ms

Remote clock offset: 1.136 ms

Below is generated by plot.py at 2019-02-12 00:40:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.85 Mbit/s

95th percentile per-packet one-way delay: 5.763 ms

Loss rate: 0.02%

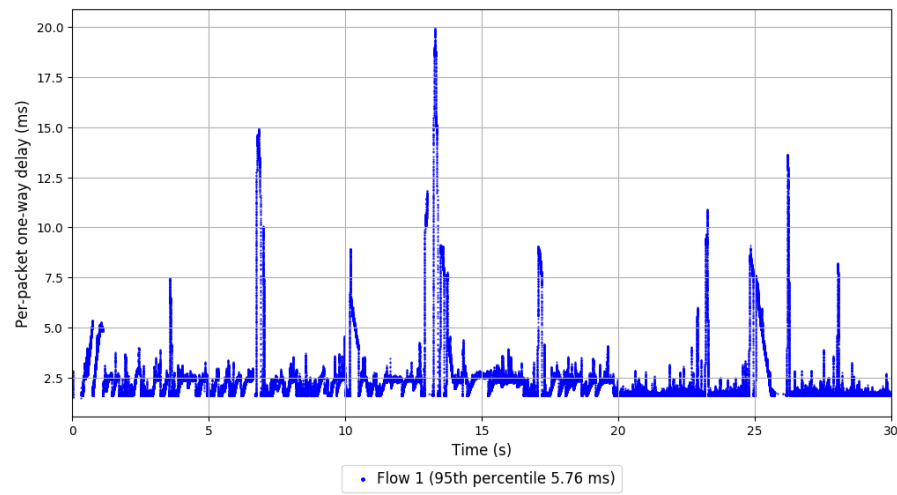
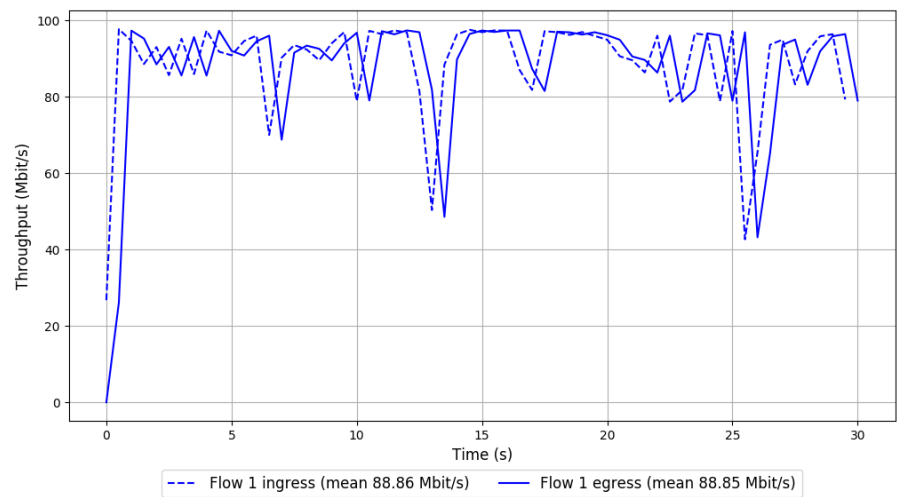
-- Flow 1:

Average throughput: 88.85 Mbit/s

95th percentile per-packet one-way delay: 5.763 ms

Loss rate: 0.02%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-02-11 23:53:18

End at: 2019-02-11 23:53:48

Local clock offset: -5.808 ms

Remote clock offset: 0.869 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.59 Mbit/s

95th percentile per-packet one-way delay: 7.385 ms

Loss rate: 0.03%

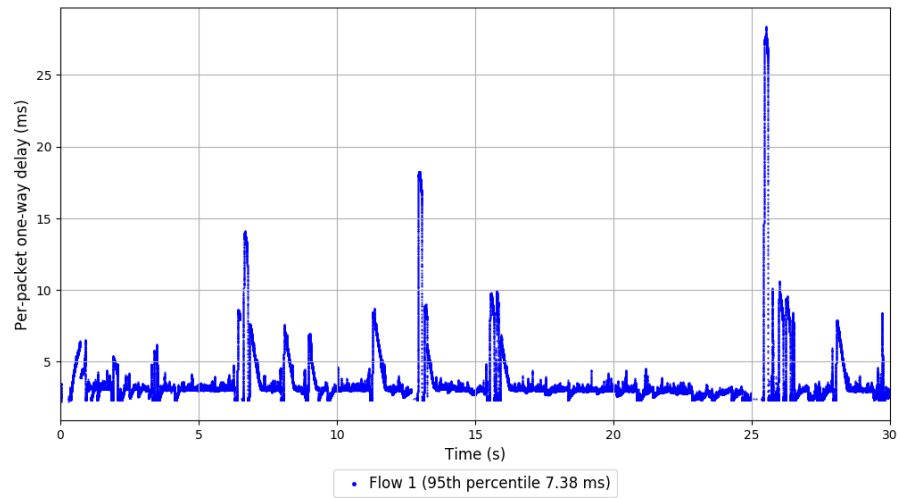
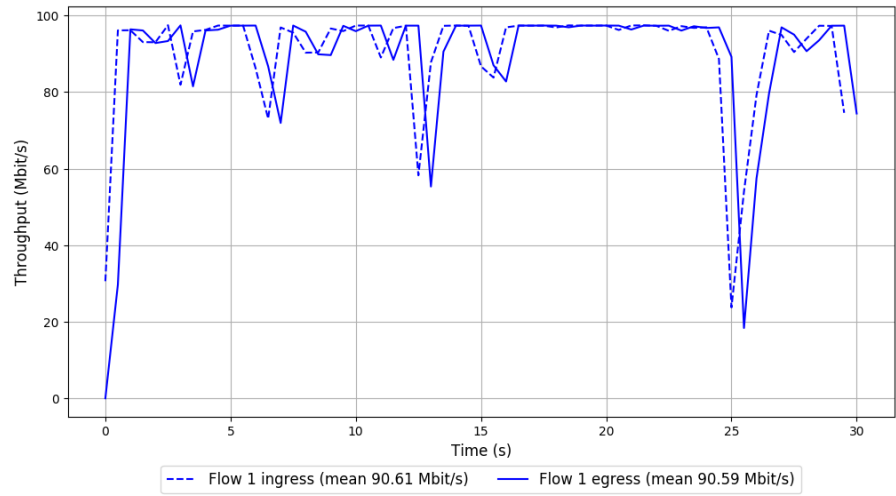
-- Flow 1:

Average throughput: 90.59 Mbit/s

95th percentile per-packet one-way delay: 7.385 ms

Loss rate: 0.03%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-02-12 00:17:04

End at: 2019-02-12 00:17:34

Local clock offset: -2.334 ms

Remote clock offset: 0.398 ms

Below is generated by plot.py at 2019-02-12 00:41:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.10 Mbit/s

95th percentile per-packet one-way delay: 7.568 ms

Loss rate: 0.02%

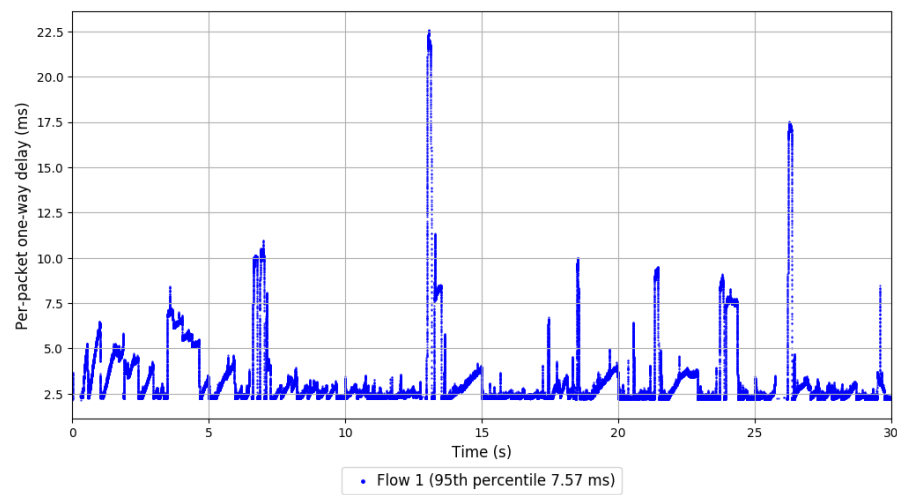
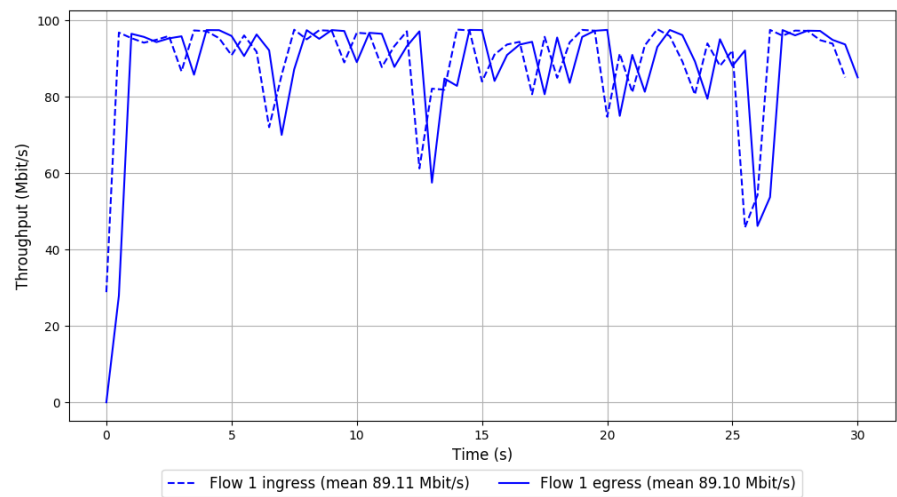
-- Flow 1:

Average throughput: 89.10 Mbit/s

95th percentile per-packet one-way delay: 7.568 ms

Loss rate: 0.02%

Run 5: Report of QUIC Cubic — Data Link

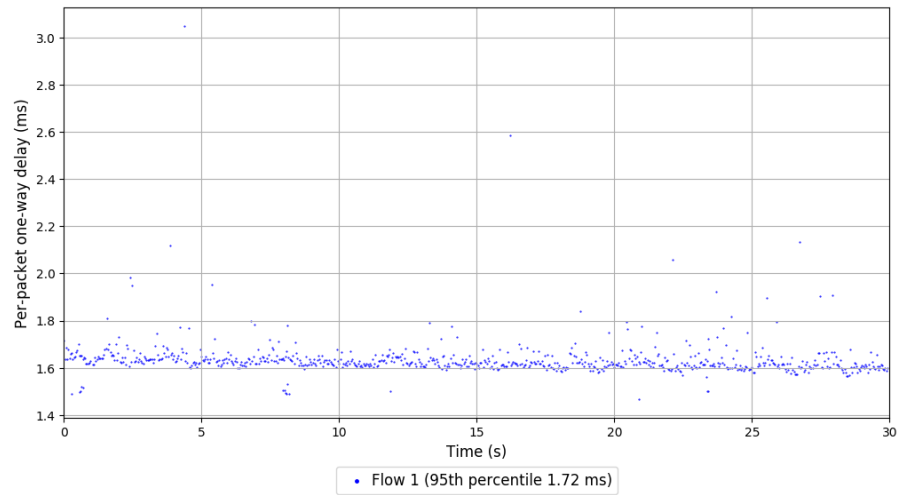
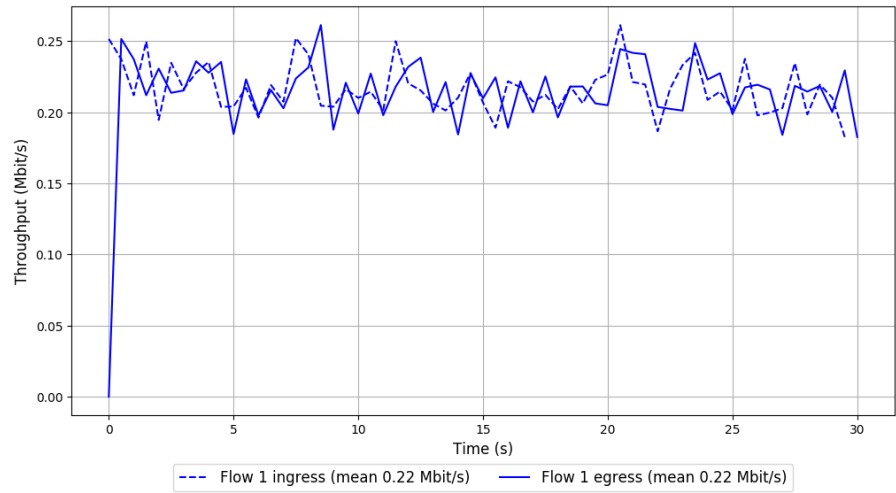


```
Run 1: Statistics of SCReAM

Start at: 2019-02-11 22:36:42
End at: 2019-02-11 22:37:12
Local clock offset: -7.561 ms
Remote clock offset: 1.38 ms

# Below is generated by plot.py at 2019-02-12 00:41:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.716 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.716 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-02-11 23:00:20

End at: 2019-02-11 23:00:50

Local clock offset: -7.536 ms

Remote clock offset: 1.239 ms

Below is generated by plot.py at 2019-02-12 00:41:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.890 ms

Loss rate: 0.00%

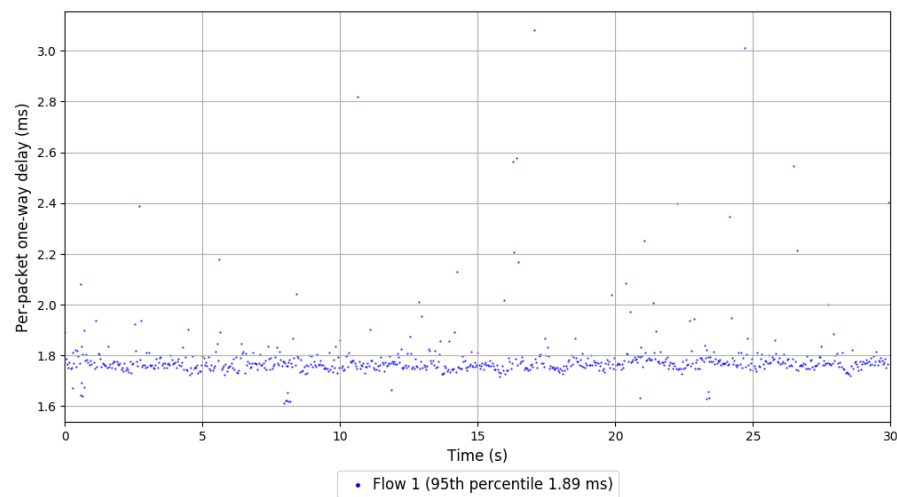
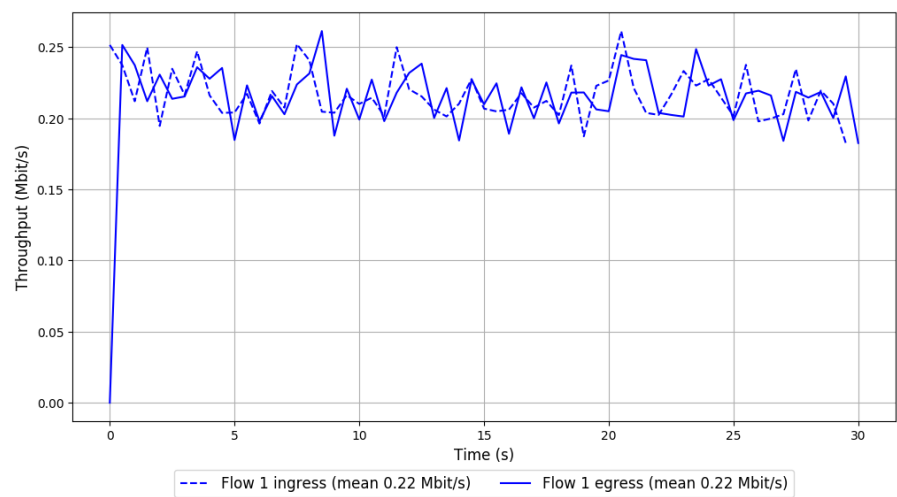
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.890 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-02-11 23:24:01

End at: 2019-02-11 23:24:31

Local clock offset: -5.97 ms

Remote clock offset: 1.109 ms

Below is generated by plot.py at 2019-02-12 00:41:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.604 ms

Loss rate: 0.00%

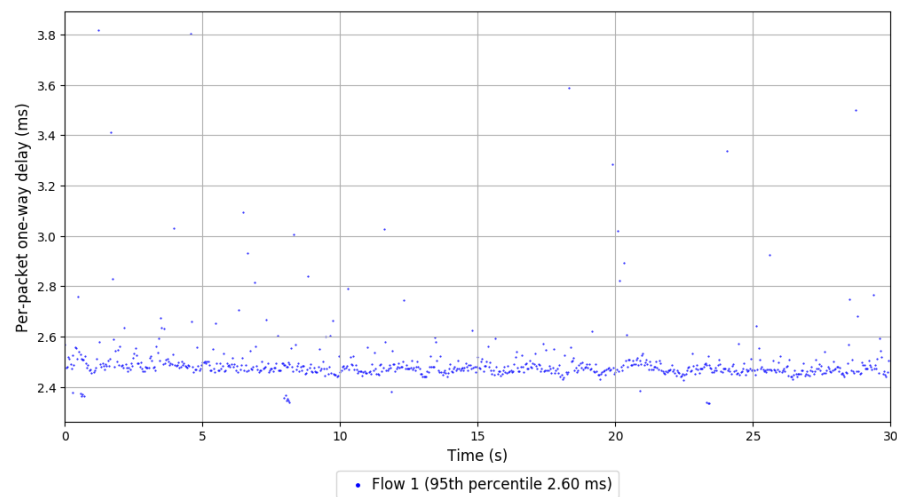
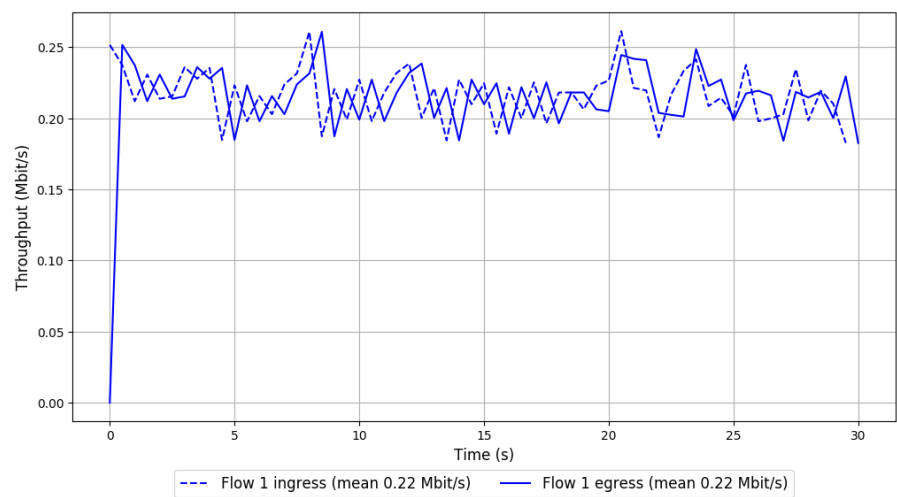
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.604 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-02-11 23:47:39

End at: 2019-02-11 23:48:09

Local clock offset: -6.633 ms

Remote clock offset: 0.92 ms

Below is generated by plot.py at 2019-02-12 00:41:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.713 ms

Loss rate: 0.00%

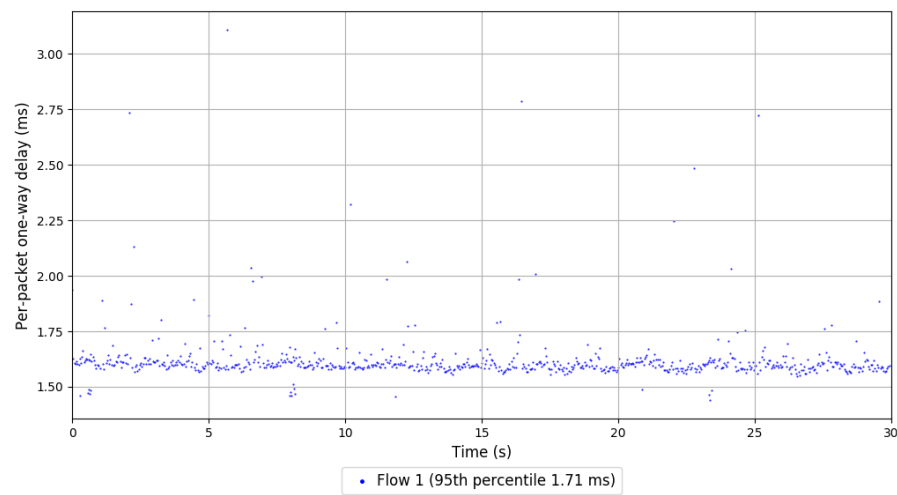
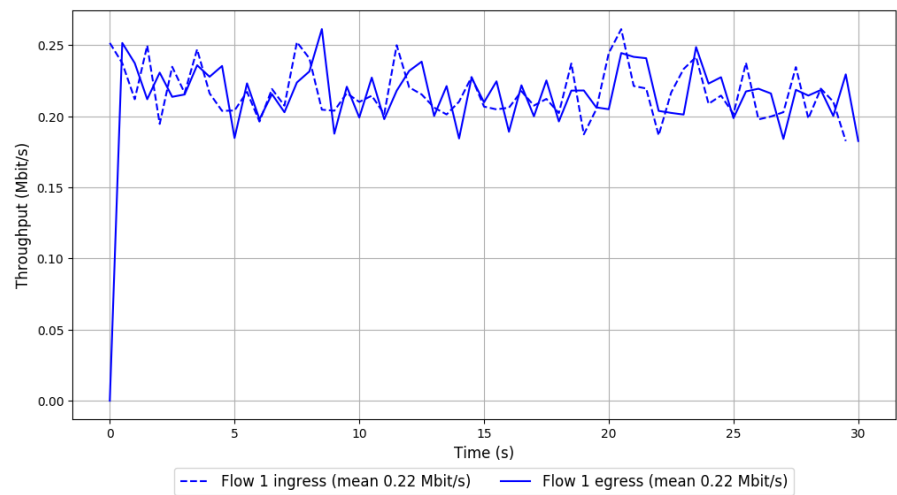
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.713 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-02-12 00:11:24

End at: 2019-02-12 00:11:54

Local clock offset: -4.091 ms

Remote clock offset: 0.535 ms

Below is generated by plot.py at 2019-02-12 00:41:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.565 ms

Loss rate: 0.00%

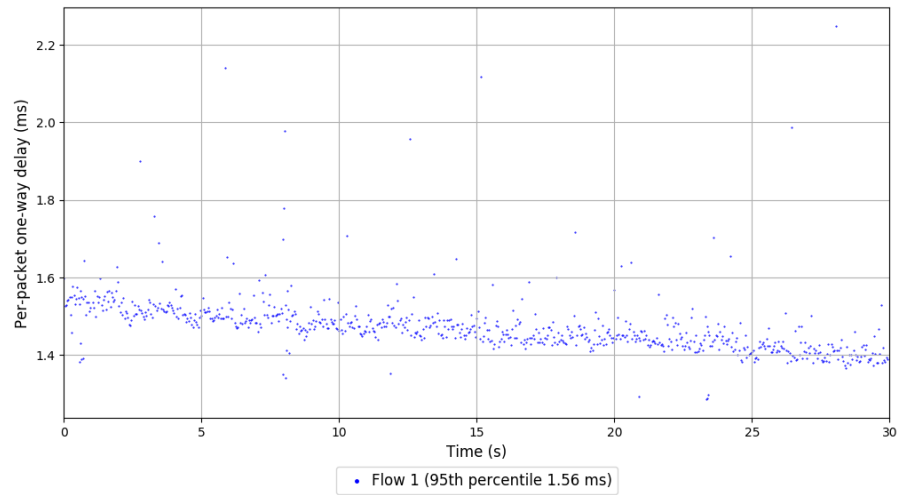
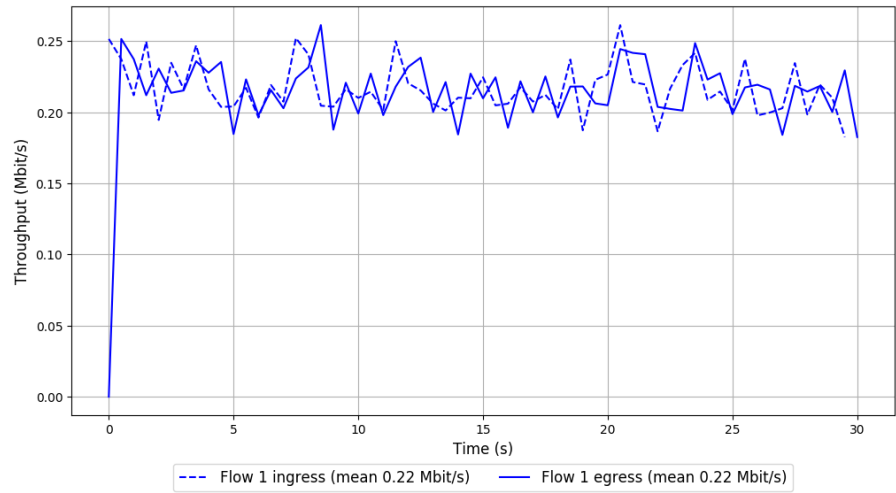
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.565 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-02-11 22:46:48

End at: 2019-02-11 22:47:19

Local clock offset: -7.282 ms

Remote clock offset: 1.368 ms

Below is generated by plot.py at 2019-02-12 00:41:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.24 Mbit/s

95th percentile per-packet one-way delay: 10.139 ms

Loss rate: 0.07%

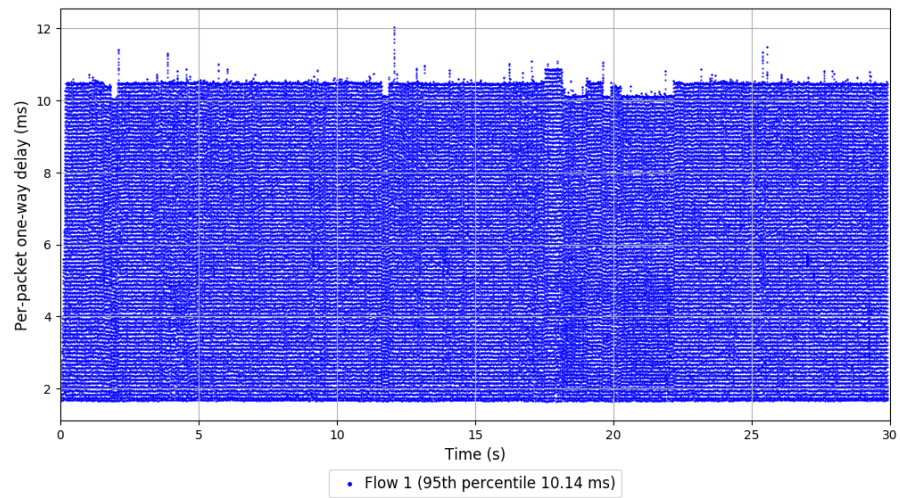
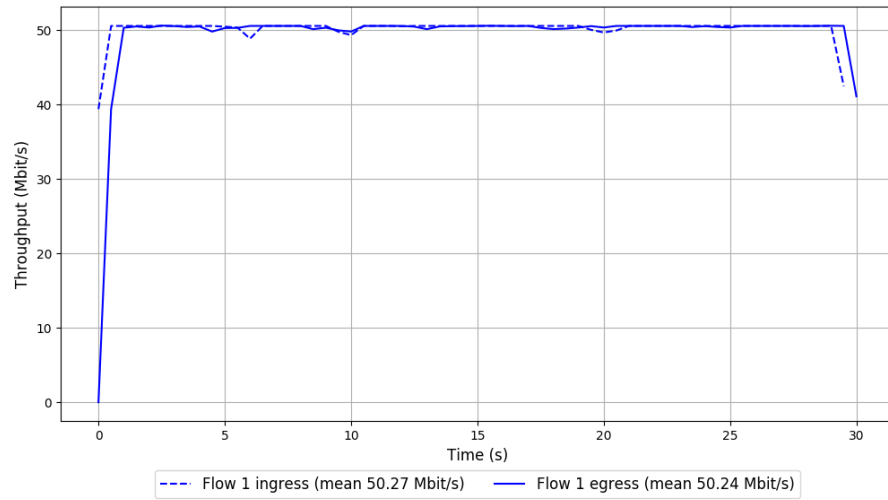
-- Flow 1:

Average throughput: 50.24 Mbit/s

95th percentile per-packet one-way delay: 10.139 ms

Loss rate: 0.07%

Run 1: Report of Sprout — Data Link

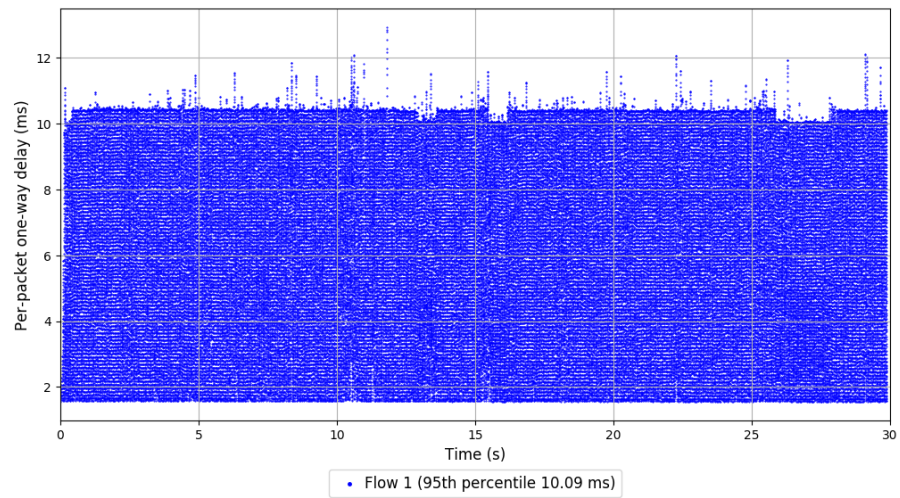
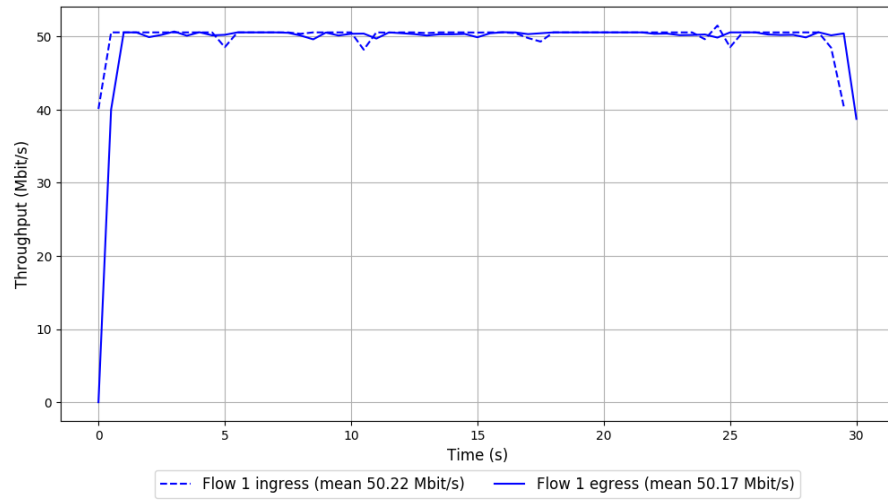


Run 2: Statistics of Sprout

Start at: 2019-02-11 23:10:28
End at: 2019-02-11 23:10:58
Local clock offset: -7.058 ms
Remote clock offset: 1.408 ms

Below is generated by plot.py at 2019-02-12 00:41:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.17 Mbit/s
95th percentile per-packet one-way delay: 10.087 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 50.17 Mbit/s
95th percentile per-packet one-way delay: 10.087 ms
Loss rate: 0.10%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-02-11 23:34:09

End at: 2019-02-11 23:34:39

Local clock offset: -6.03 ms

Remote clock offset: 1.041 ms

Below is generated by plot.py at 2019-02-12 00:41:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.25 Mbit/s

95th percentile per-packet one-way delay: 10.795 ms

Loss rate: 0.05%

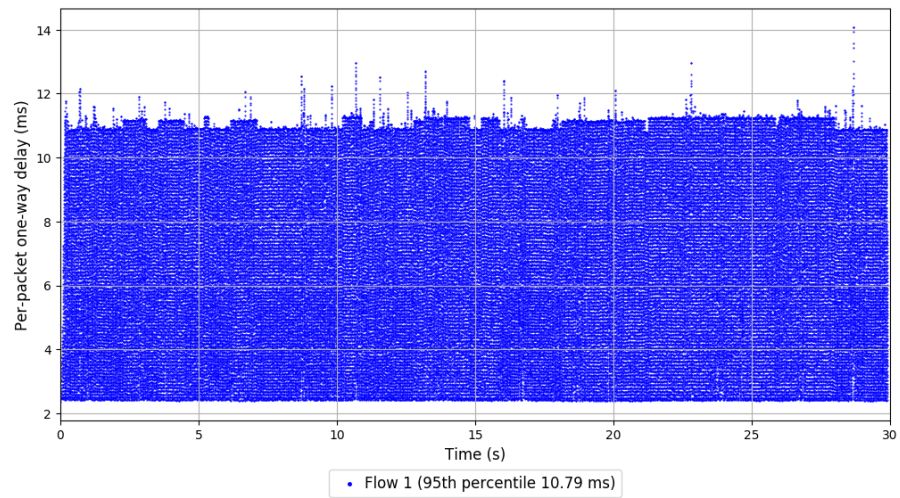
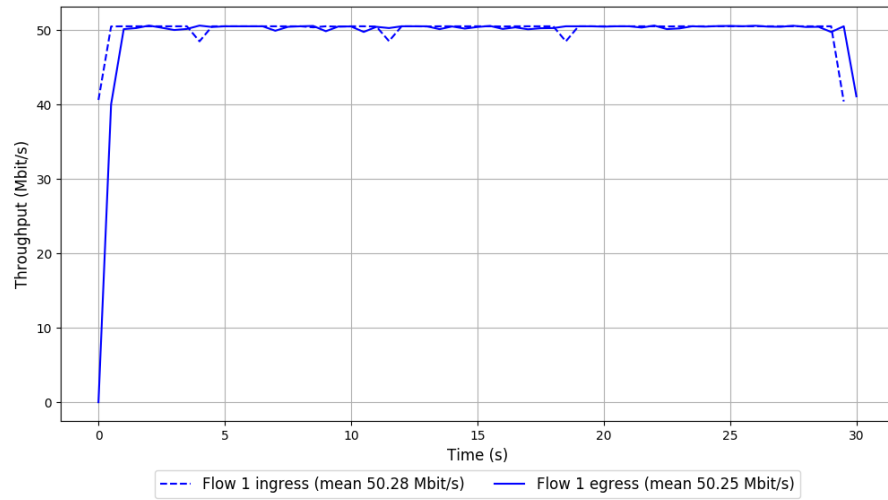
-- Flow 1:

Average throughput: 50.25 Mbit/s

95th percentile per-packet one-way delay: 10.795 ms

Loss rate: 0.05%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-02-11 23:57:48

End at: 2019-02-11 23:58:18

Local clock offset: -5.87 ms

Remote clock offset: 0.722 ms

Below is generated by plot.py at 2019-02-12 00:41:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.19 Mbit/s

95th percentile per-packet one-way delay: 10.790 ms

Loss rate: 0.06%

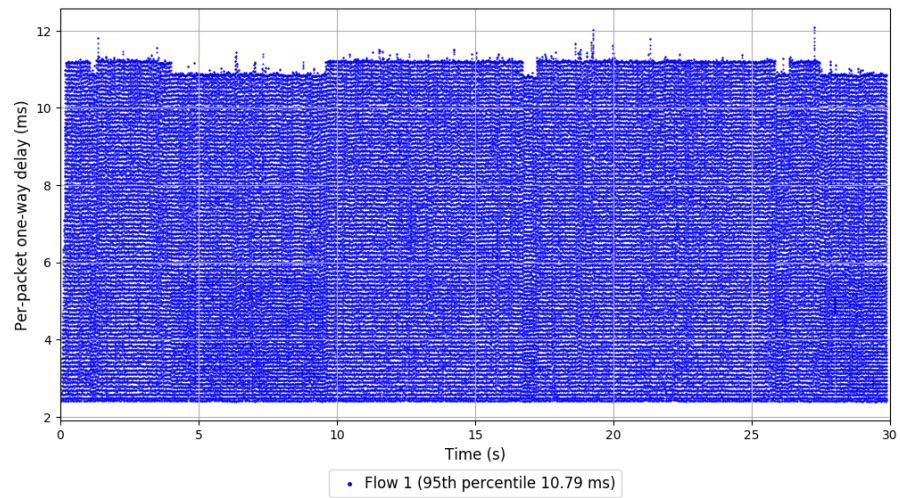
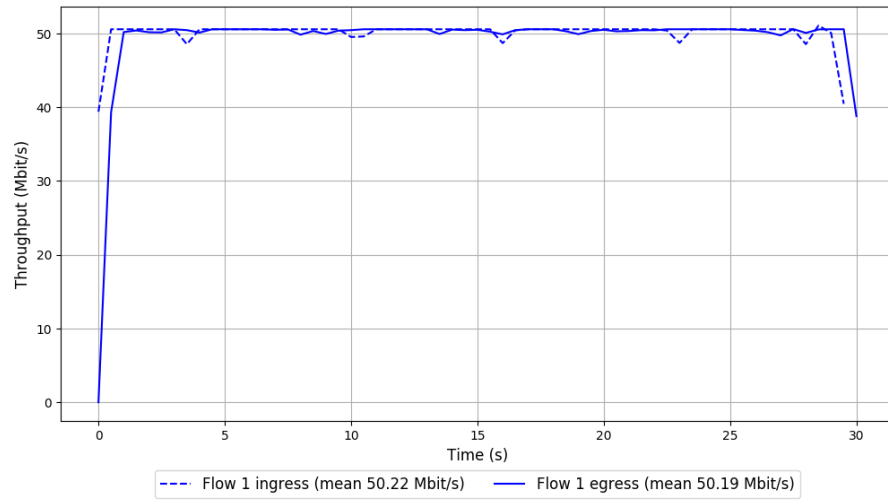
-- Flow 1:

Average throughput: 50.19 Mbit/s

95th percentile per-packet one-way delay: 10.790 ms

Loss rate: 0.06%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-02-12 00:21:33

End at: 2019-02-12 00:22:03

Local clock offset: -1.699 ms

Remote clock offset: 0.298 ms

Below is generated by plot.py at 2019-02-12 00:41:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.18 Mbit/s

95th percentile per-packet one-way delay: 10.801 ms

Loss rate: 0.07%

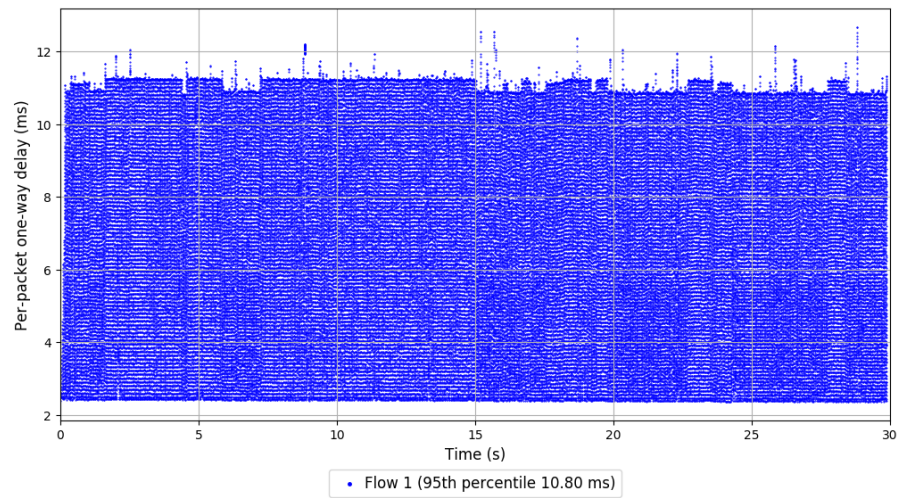
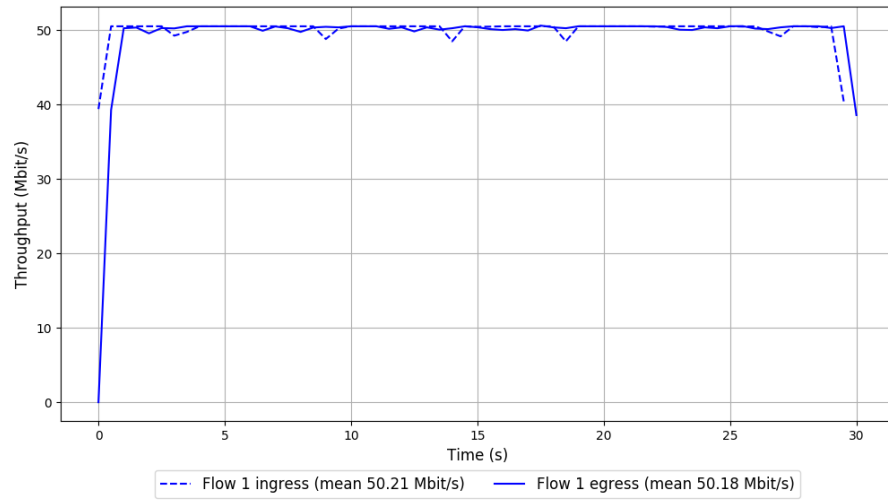
-- Flow 1:

Average throughput: 50.18 Mbit/s

95th percentile per-packet one-way delay: 10.801 ms

Loss rate: 0.07%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-02-11 22:31:03

End at: 2019-02-11 22:31:33

Local clock offset: -6.727 ms

Remote clock offset: 1.494 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.15 Mbit/s

95th percentile per-packet one-way delay: 2.635 ms

Loss rate: 0.02%

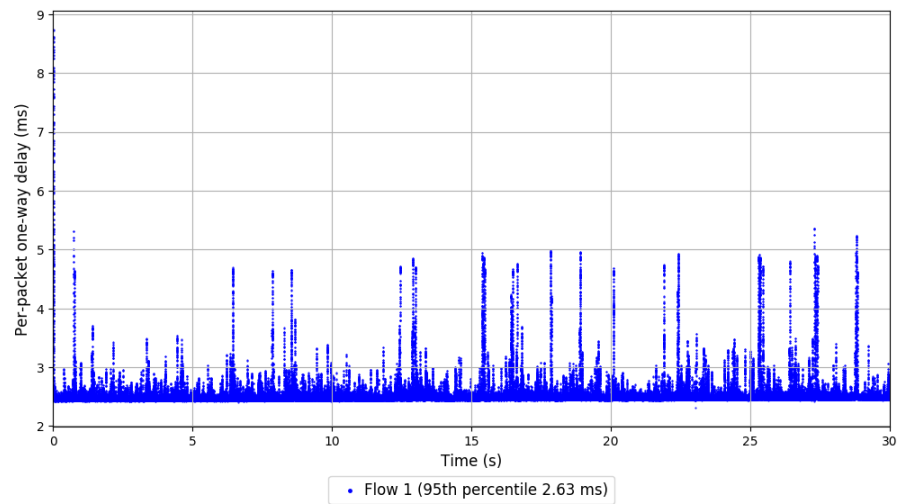
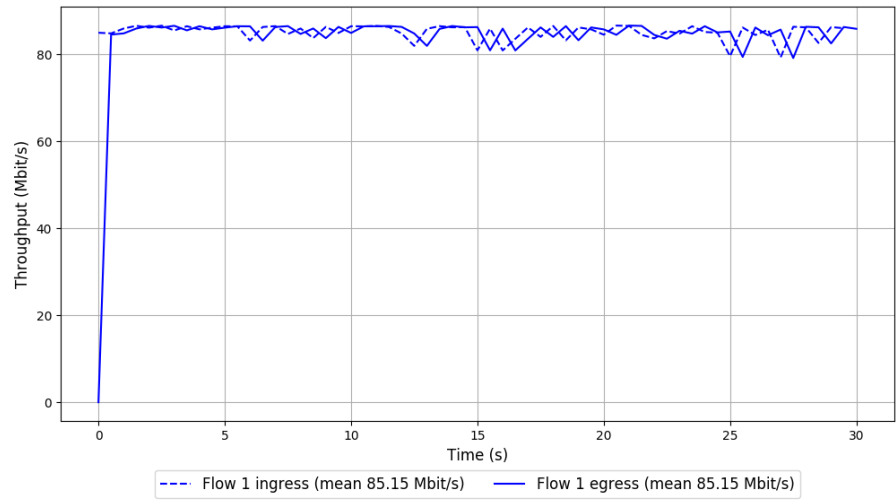
-- Flow 1:

Average throughput: 85.15 Mbit/s

95th percentile per-packet one-way delay: 2.635 ms

Loss rate: 0.02%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-02-11 22:54:41

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

Local clock offset: -6.652 ms

Remote clock offset: 1.283 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.72 Mbit/s

95th percentile per-packet one-way delay: 2.582 ms

Loss rate: 0.01%

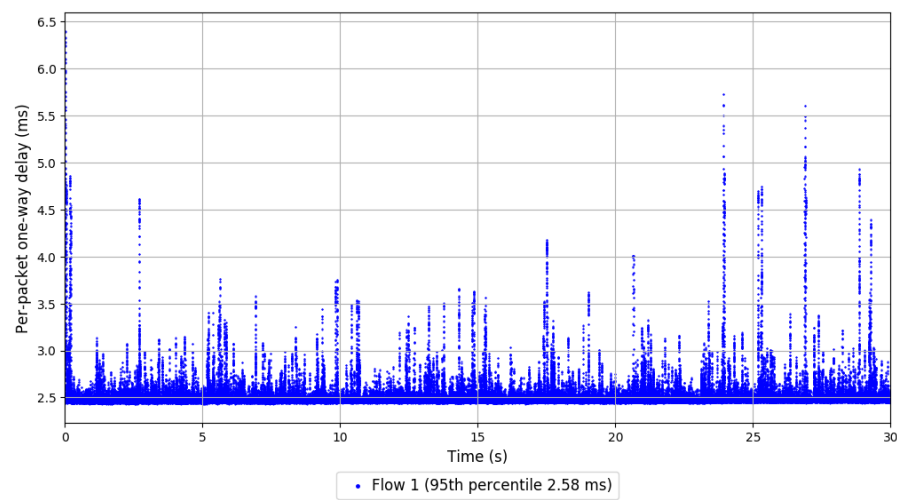
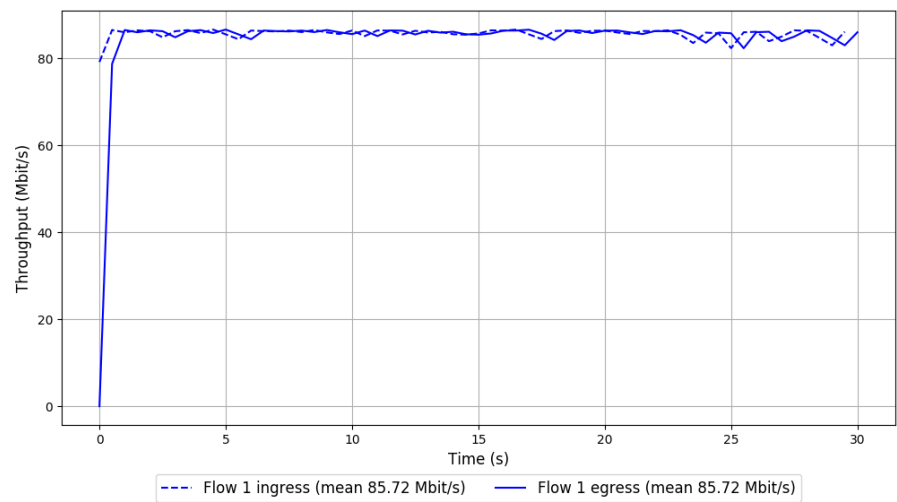
-- Flow 1:

Average throughput: 85.72 Mbit/s

95th percentile per-packet one-way delay: 2.582 ms

Loss rate: 0.01%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-02-11 23:18:25

End at: 2019-02-11 23:18:55

Local clock offset: -6.016 ms

Remote clock offset: 1.137 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.50 Mbit/s

95th percentile per-packet one-way delay: 2.641 ms

Loss rate: 0.01%

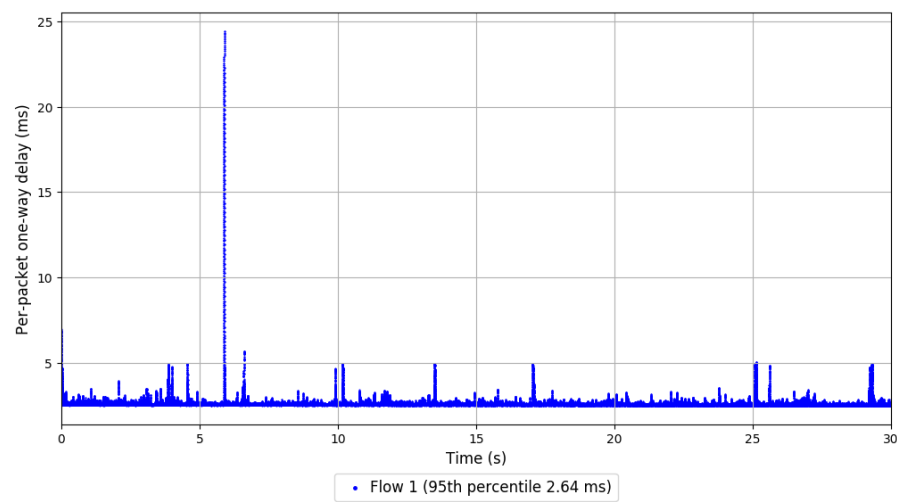
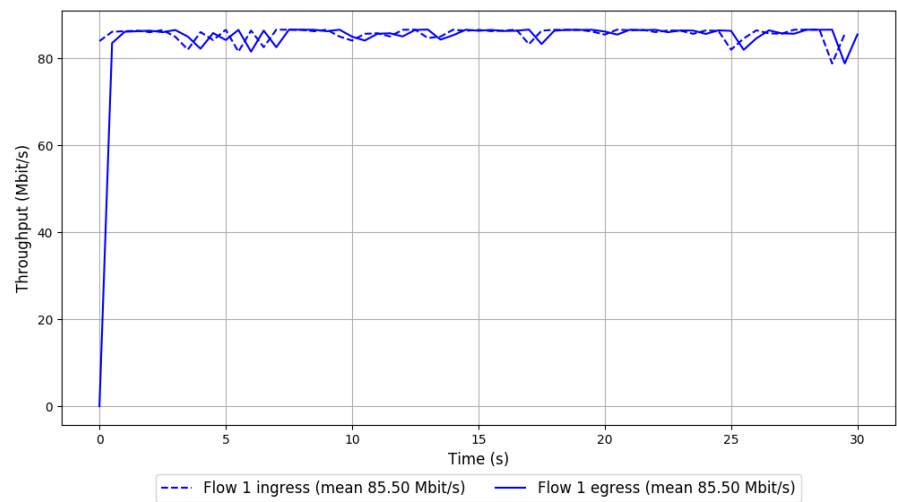
-- Flow 1:

Average throughput: 85.50 Mbit/s

95th percentile per-packet one-way delay: 2.641 ms

Loss rate: 0.01%

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



Run 4: Statistics of TaoVA-100x

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

End at: 2019-02-11 23:42:32

Local clock offset: -5.851 ms

Remote clock offset: 0.971 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.03 Mbit/s

95th percentile per-packet one-way delay: 2.675 ms

Loss rate: 0.03%

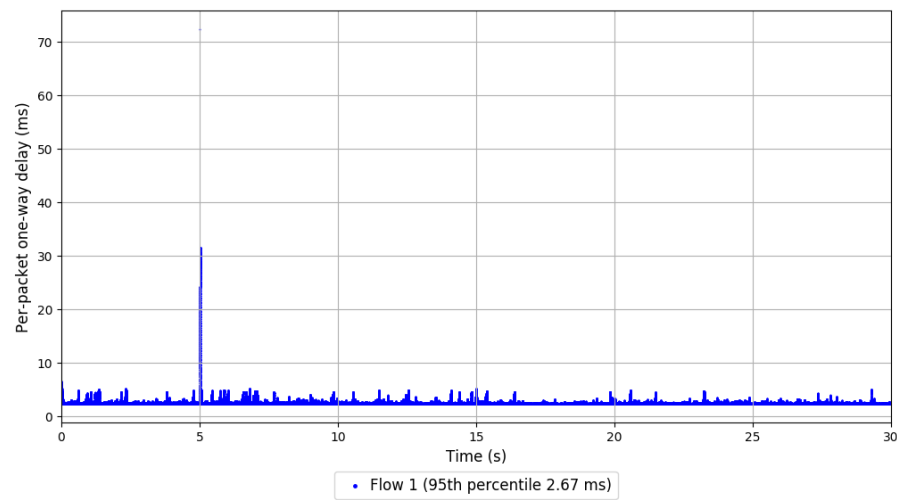
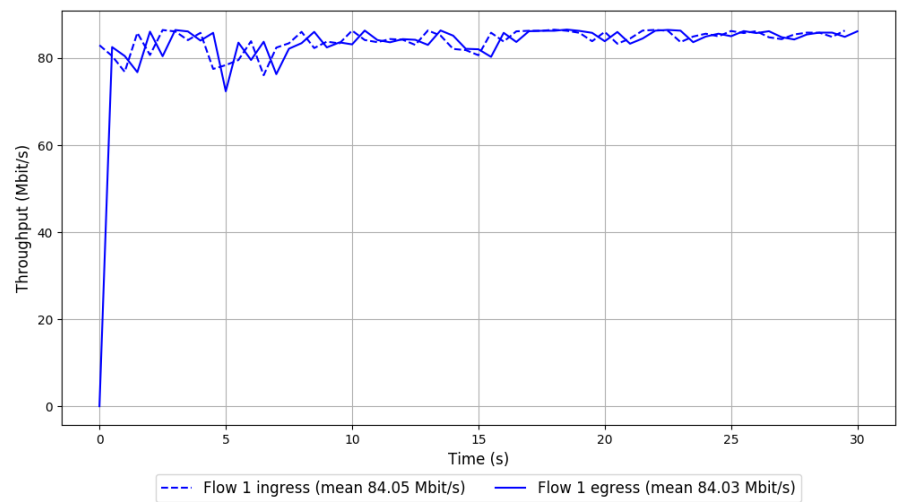
-- Flow 1:

Average throughput: 84.03 Mbit/s

95th percentile per-packet one-way delay: 2.675 ms

Loss rate: 0.03%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-02-12 00:05:44

End at: 2019-02-12 00:06:14

Local clock offset: -5.147 ms

Remote clock offset: 0.574 ms

Below is generated by plot.py at 2019-02-12 00:43:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.42 Mbit/s

95th percentile per-packet one-way delay: 2.274 ms

Loss rate: 0.01%

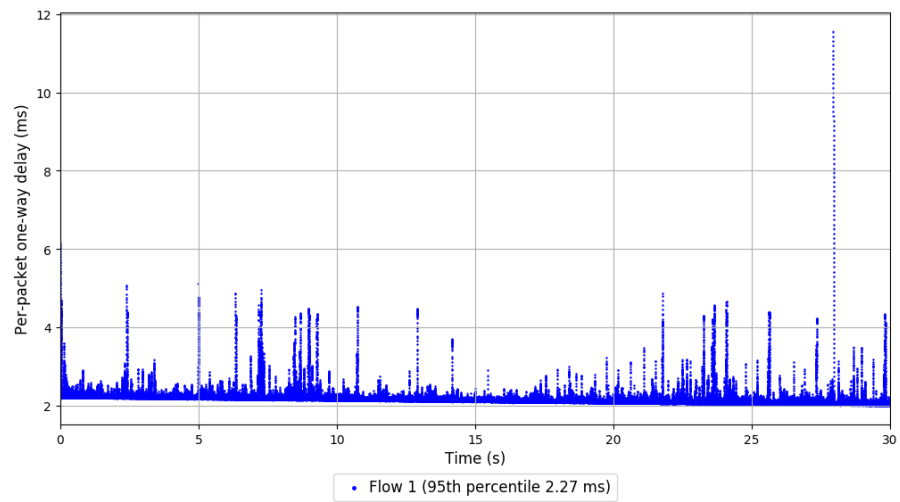
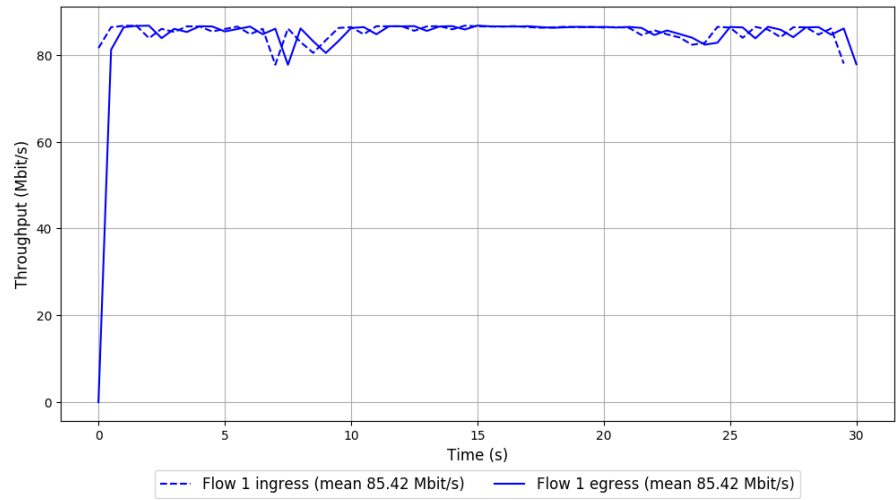
-- Flow 1:

Average throughput: 85.42 Mbit/s

95th percentile per-packet one-way delay: 2.274 ms

Loss rate: 0.01%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-02-11 22:45:43

End at: 2019-02-11 22:46:13

Local clock offset: -6.519 ms

Remote clock offset: 1.336 ms

Below is generated by plot.py at 2019-02-12 00:43:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.23 Mbit/s

95th percentile per-packet one-way delay: 3.336 ms

Loss rate: 0.01%

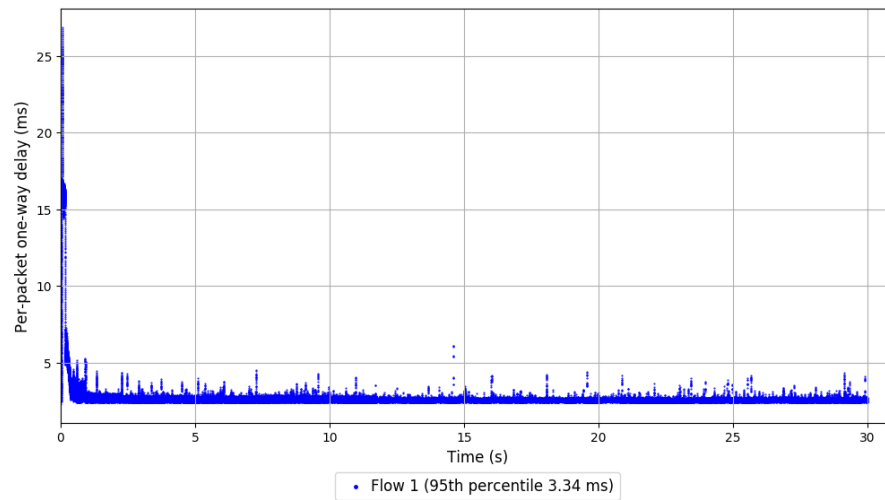
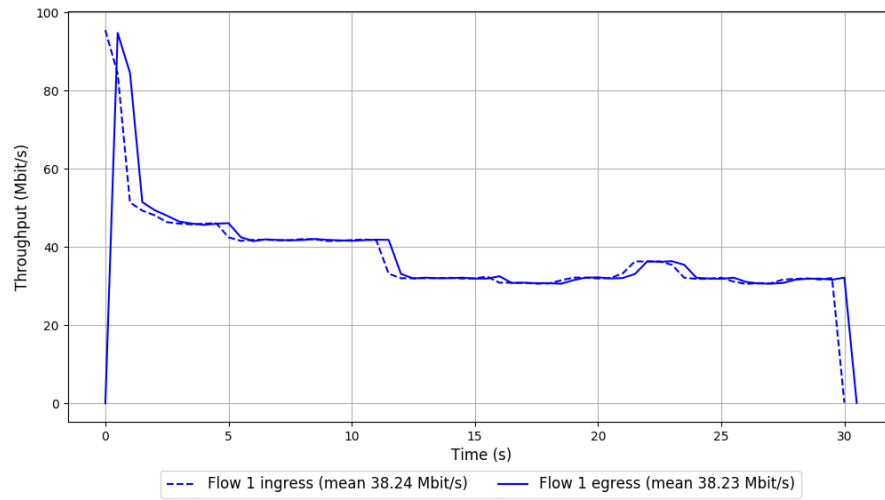
-- Flow 1:

Average throughput: 38.23 Mbit/s

95th percentile per-packet one-way delay: 3.336 ms

Loss rate: 0.01%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-02-11 23:09:21

End at: 2019-02-11 23:09:51

Local clock offset: -7.127 ms

Remote clock offset: 1.387 ms

Below is generated by plot.py at 2019-02-12 00:43:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.72 Mbit/s

95th percentile per-packet one-way delay: 2.801 ms

Loss rate: 0.02%

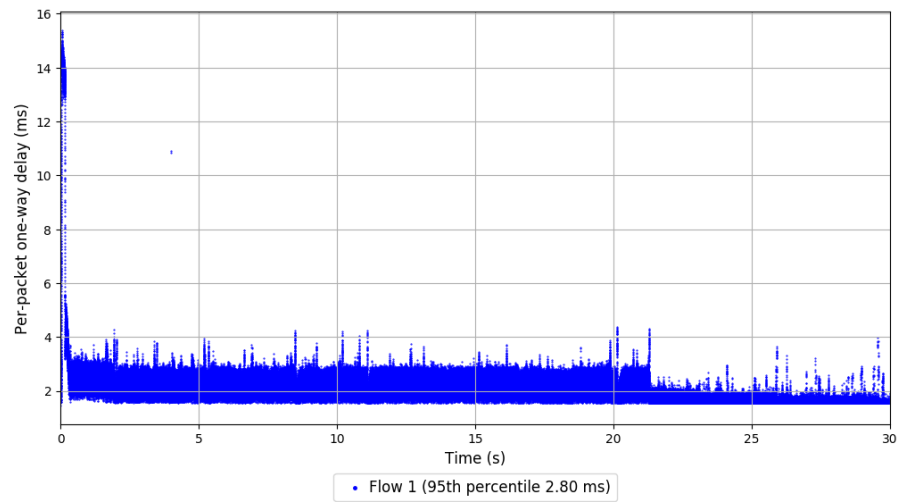
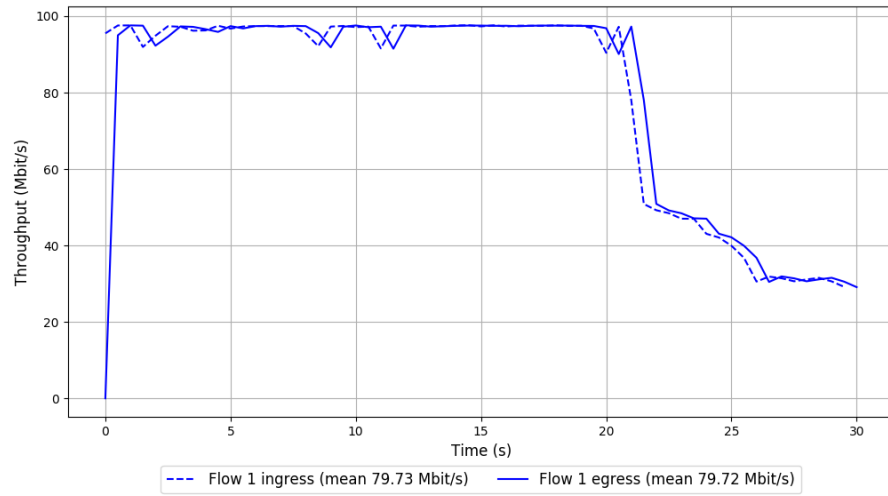
-- Flow 1:

Average throughput: 79.72 Mbit/s

95th percentile per-packet one-way delay: 2.801 ms

Loss rate: 0.02%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-02-11 23:33:01

End at: 2019-02-11 23:33:31

Local clock offset: -6.755 ms

Remote clock offset: 1.115 ms

Below is generated by plot.py at 2019-02-12 00:43:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.45 Mbit/s

95th percentile per-packet one-way delay: 2.828 ms

Loss rate: 0.04%

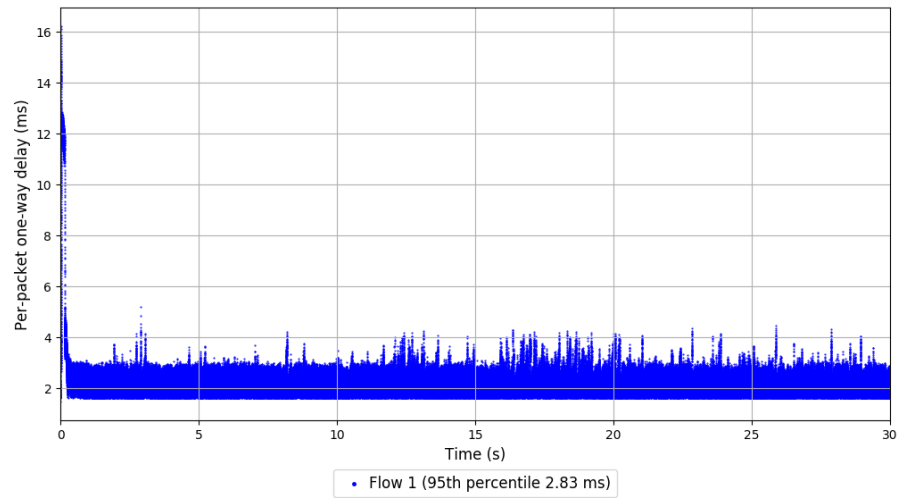
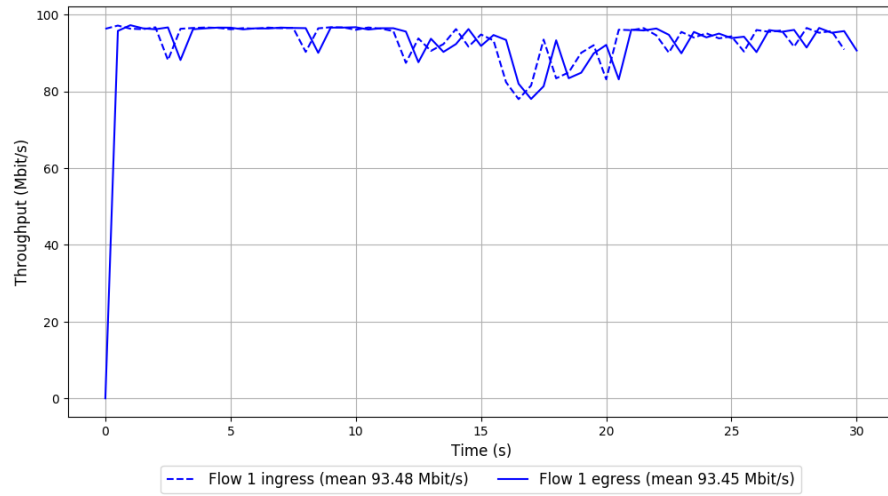
-- Flow 1:

Average throughput: 93.45 Mbit/s

95th percentile per-packet one-way delay: 2.828 ms

Loss rate: 0.04%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-02-11 23:56:40

End at: 2019-02-11 23:57:10

Local clock offset: -6.575 ms

Remote clock offset: 0.682 ms

Below is generated by plot.py at 2019-02-12 00:43:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.19 Mbit/s

95th percentile per-packet one-way delay: 2.973 ms

Loss rate: 0.01%

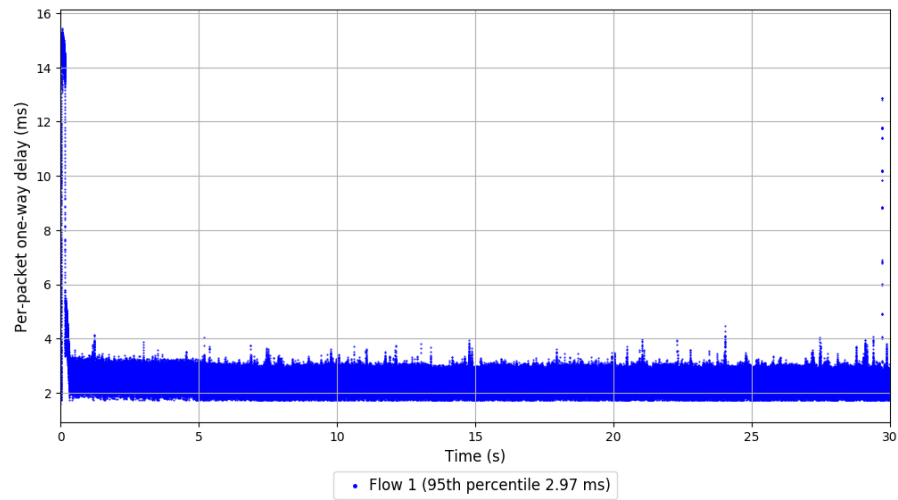
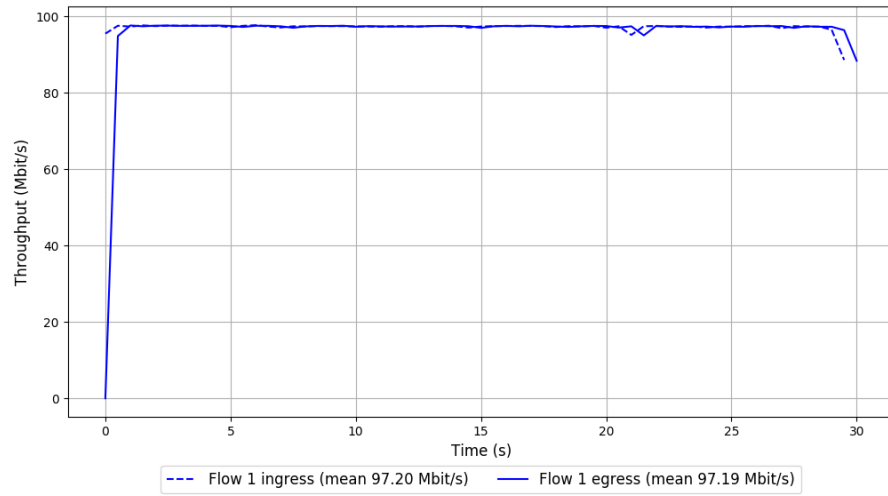
-- Flow 1:

Average throughput: 97.19 Mbit/s

95th percentile per-packet one-way delay: 2.973 ms

Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-02-12 00:20:25

End at: 2019-02-12 00:20:55

Local clock offset: -2.642 ms

Remote clock offset: 0.345 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.52 Mbit/s

95th percentile per-packet one-way delay: 2.794 ms

Loss rate: 0.02%

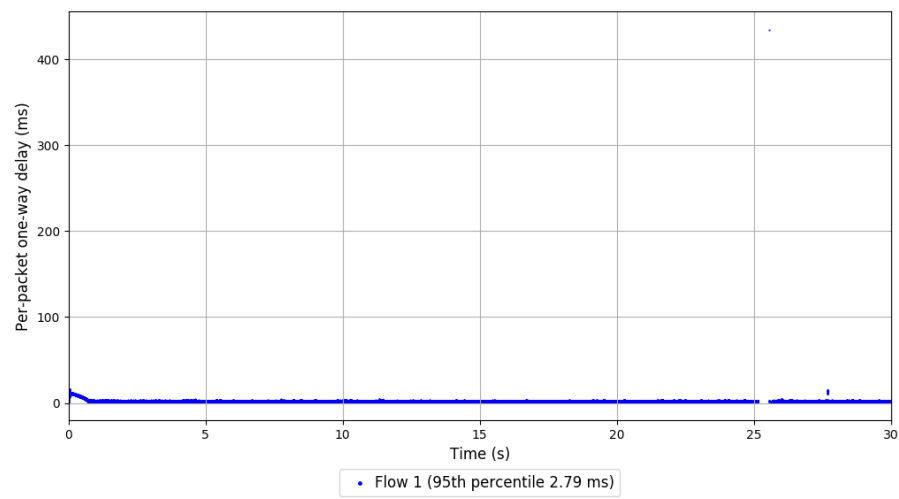
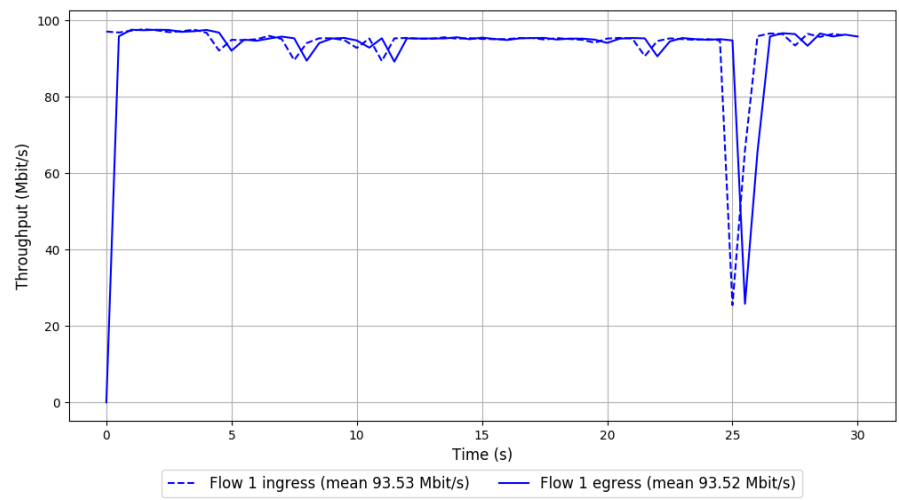
-- Flow 1:

Average throughput: 93.52 Mbit/s

95th percentile per-packet one-way delay: 2.794 ms

Loss rate: 0.02%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-02-11 22:33:18

End at: 2019-02-11 22:33:48

Local clock offset: -7.635 ms

Remote clock offset: 1.46 ms

Below is generated by plot.py at 2019-02-12 00:43:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.16 Mbit/s

95th percentile per-packet one-way delay: 11.664 ms

Loss rate: 0.04%

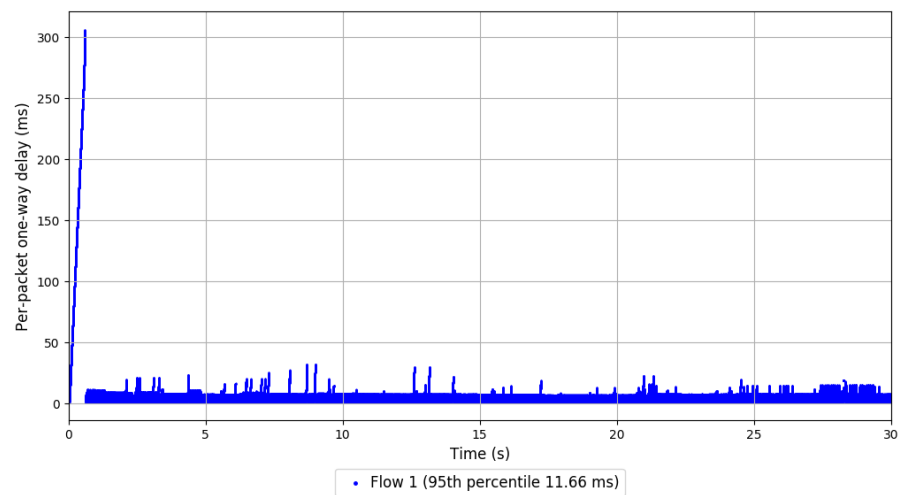
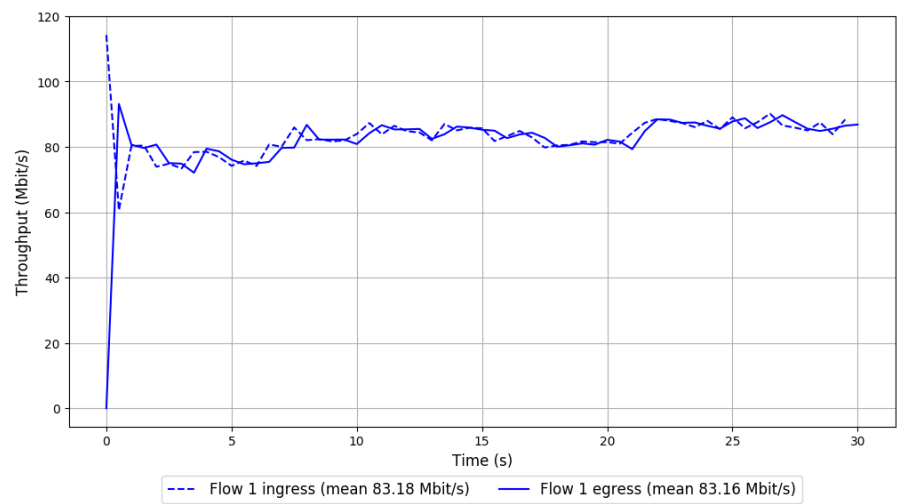
-- Flow 1:

Average throughput: 83.16 Mbit/s

95th percentile per-packet one-way delay: 11.664 ms

Loss rate: 0.04%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-02-11 22:56:57

End at: 2019-02-11 22:57:27

Local clock offset: -7.445 ms

Remote clock offset: 1.262 ms

Below is generated by plot.py at 2019-02-12 00:43:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.32 Mbit/s

95th percentile per-packet one-way delay: 11.275 ms

Loss rate: 0.02%

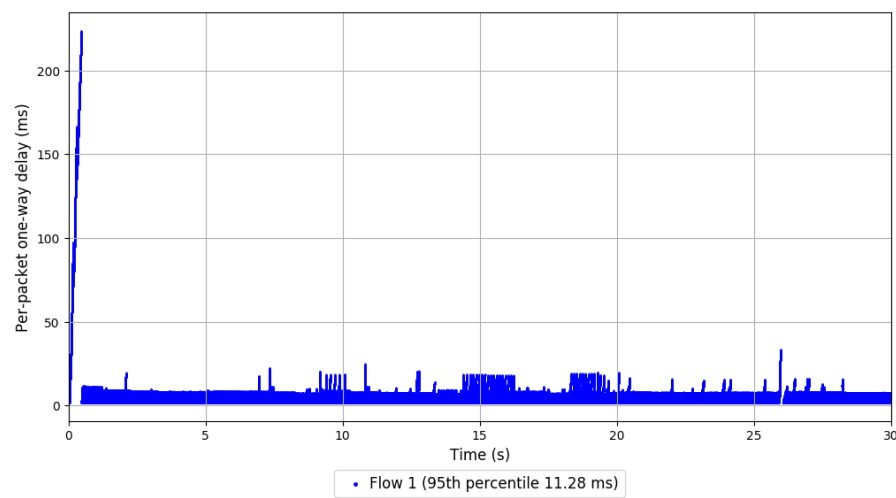
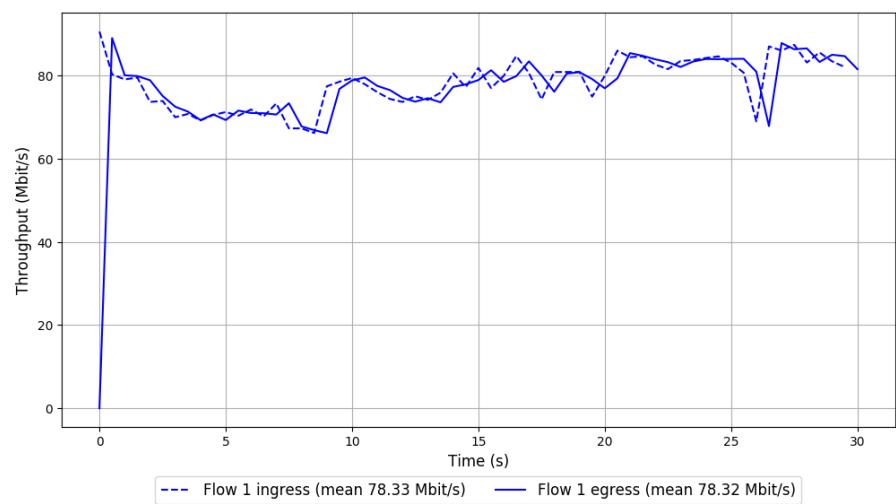
-- Flow 1:

Average throughput: 78.32 Mbit/s

95th percentile per-packet one-way delay: 11.275 ms

Loss rate: 0.02%

Run 2: Report of Verus — Data Link

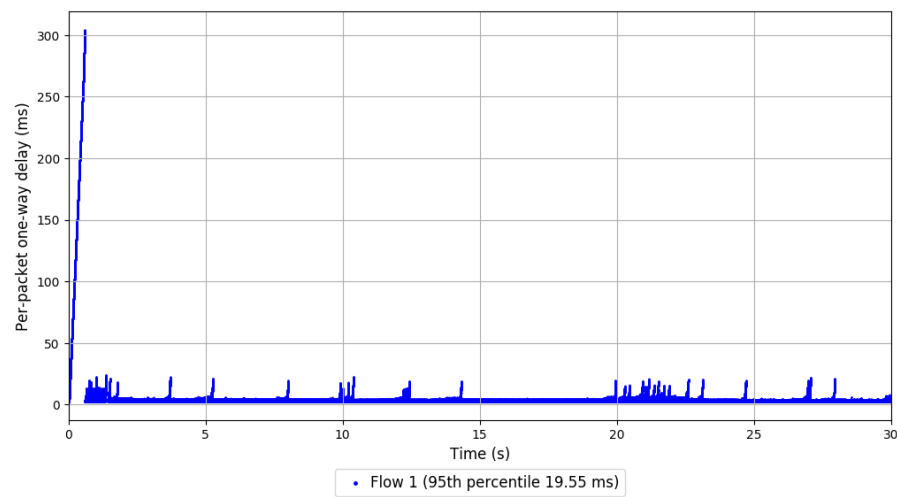
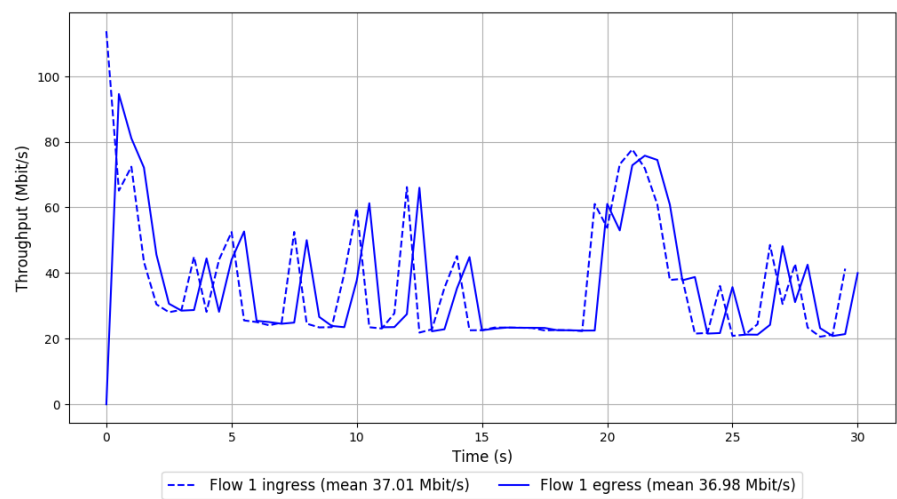


Run 3: Statistics of Verus

Start at: 2019-02-11 23:20:40
End at: 2019-02-11 23:21:10
Local clock offset: -5.998 ms
Remote clock offset: 1.255 ms

Below is generated by plot.py at 2019-02-12 00:43:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 36.98 Mbit/s
95th percentile per-packet one-way delay: 19.550 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 36.98 Mbit/s
95th percentile per-packet one-way delay: 19.550 ms
Loss rate: 0.09%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-02-11 23:44:17

End at: 2019-02-11 23:44:47

Local clock offset: -6.557 ms

Remote clock offset: 0.923 ms

Below is generated by plot.py at 2019-02-12 00:43:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.53 Mbit/s

95th percentile per-packet one-way delay: 16.777 ms

Loss rate: 0.04%

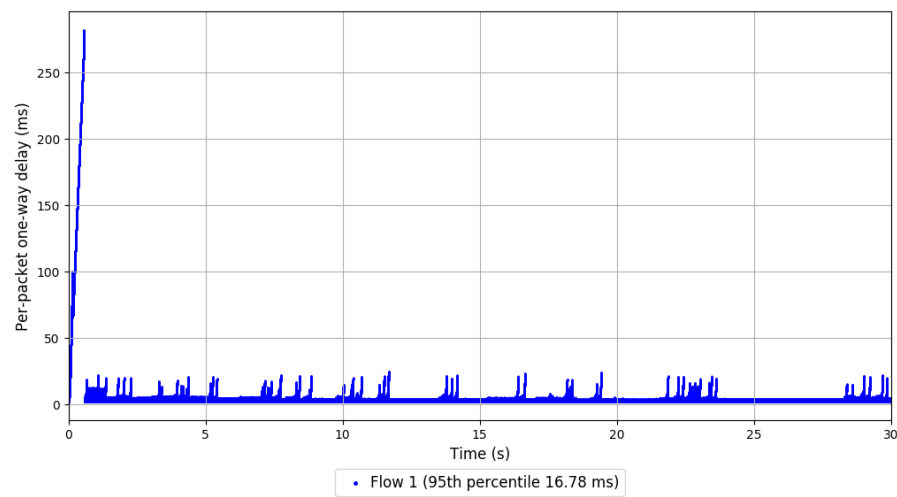
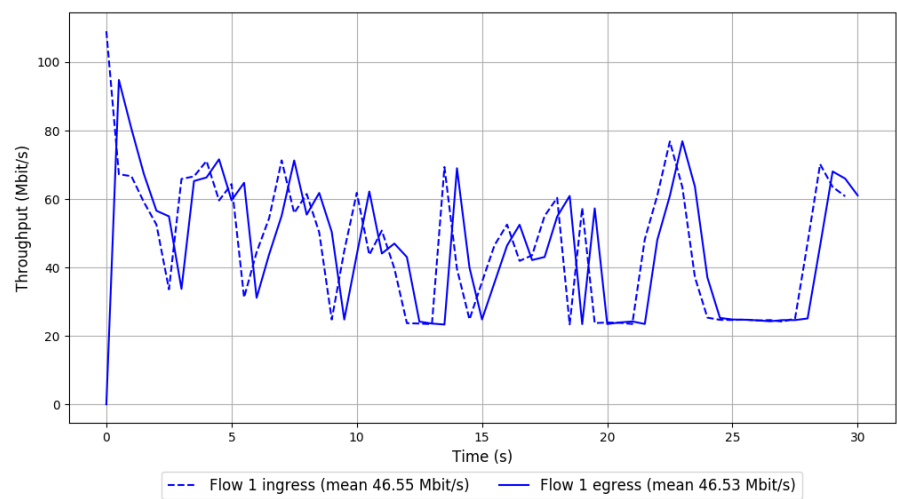
-- Flow 1:

Average throughput: 46.53 Mbit/s

95th percentile per-packet one-way delay: 16.777 ms

Loss rate: 0.04%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

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

End at: 2019-02-12 00:08:30

Local clock offset: -4.415 ms

Remote clock offset: 0.52 ms

Below is generated by plot.py at 2019-02-12 00:43:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.87 Mbit/s

95th percentile per-packet one-way delay: 11.768 ms

Loss rate: 0.06%

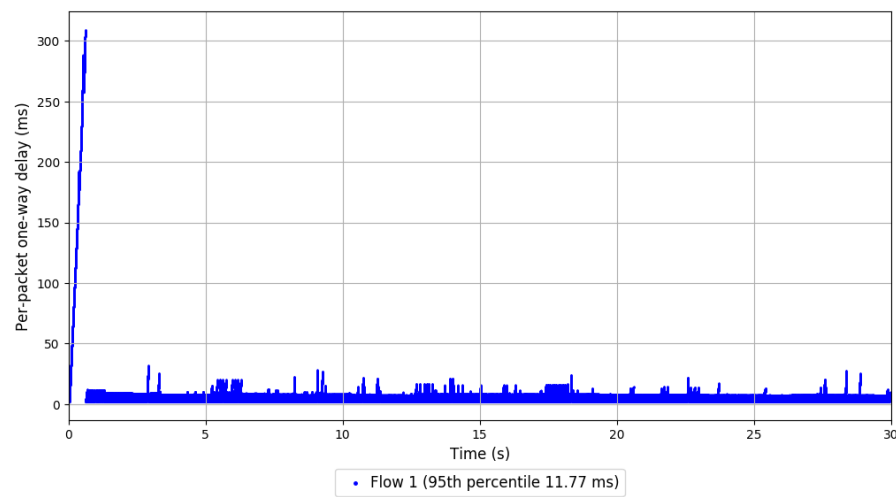
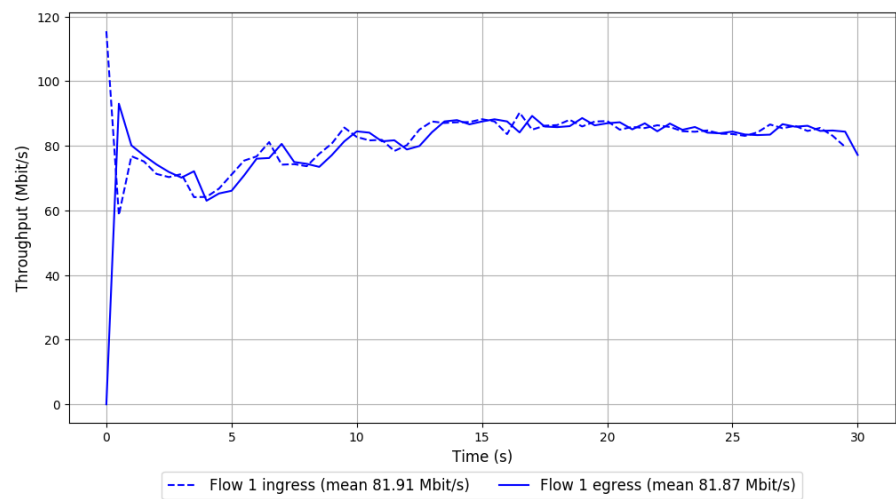
-- Flow 1:

Average throughput: 81.87 Mbit/s

95th percentile per-packet one-way delay: 11.768 ms

Loss rate: 0.06%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-02-11 22:52:29

End at: 2019-02-11 22:52:59

Local clock offset: -7.399 ms

Remote clock offset: 1.321 ms

Below is generated by plot.py at 2019-02-12 00:43:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.69 Mbit/s

95th percentile per-packet one-way delay: 1.692 ms

Loss rate: 0.01%

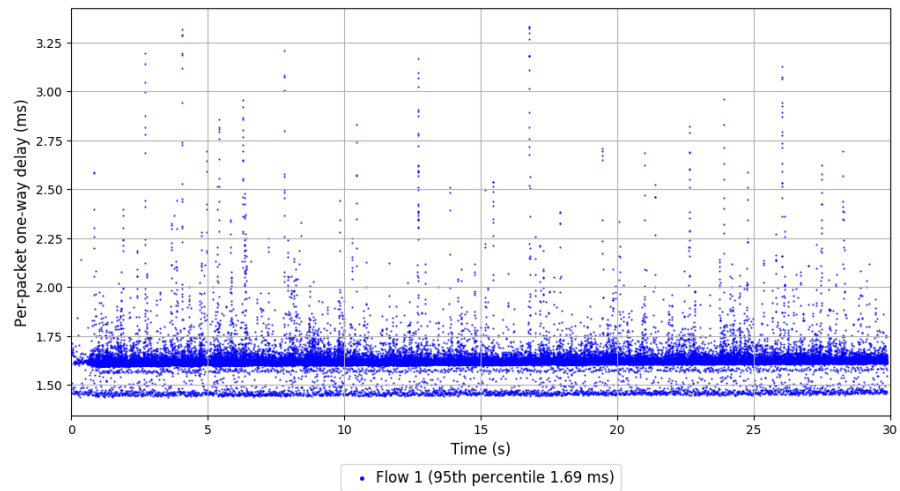
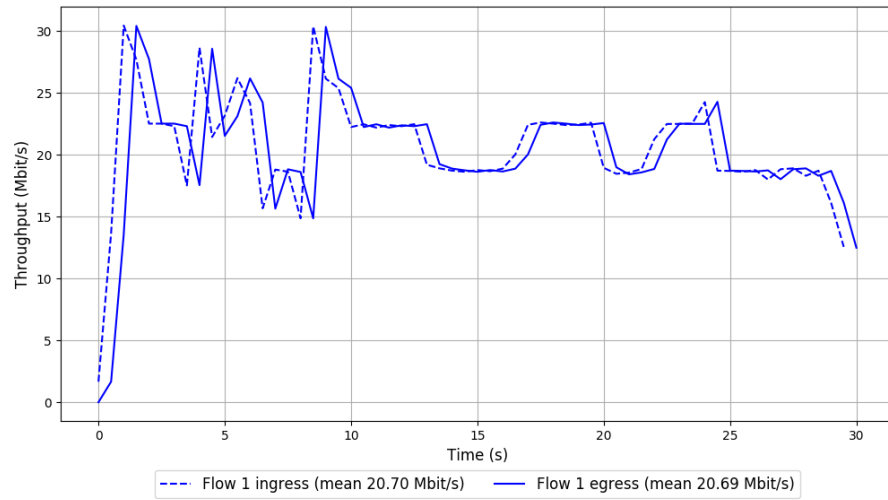
-- Flow 1:

Average throughput: 20.69 Mbit/s

95th percentile per-packet one-way delay: 1.692 ms

Loss rate: 0.01%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-02-11 23:16:09

End at: 2019-02-11 23:16:39

Local clock offset: -6.815 ms

Remote clock offset: 1.28 ms

Below is generated by plot.py at 2019-02-12 00:43:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.37 Mbit/s

95th percentile per-packet one-way delay: 2.148 ms

Loss rate: 0.02%

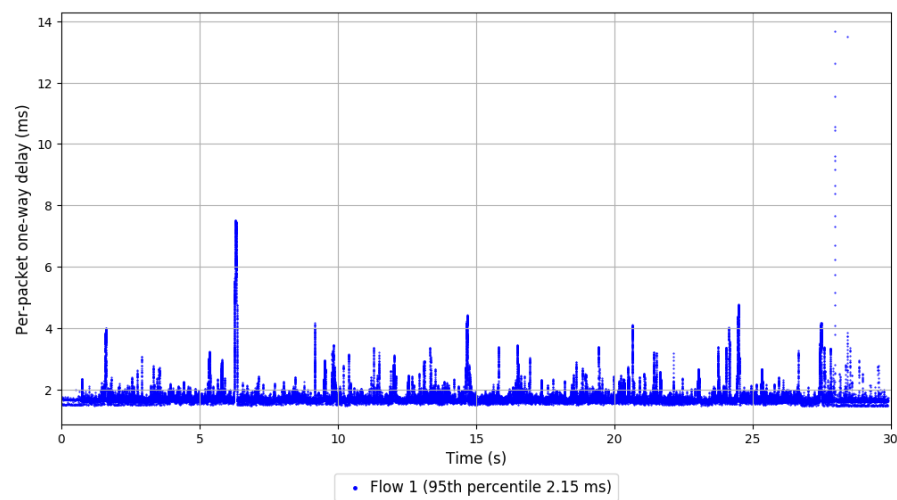
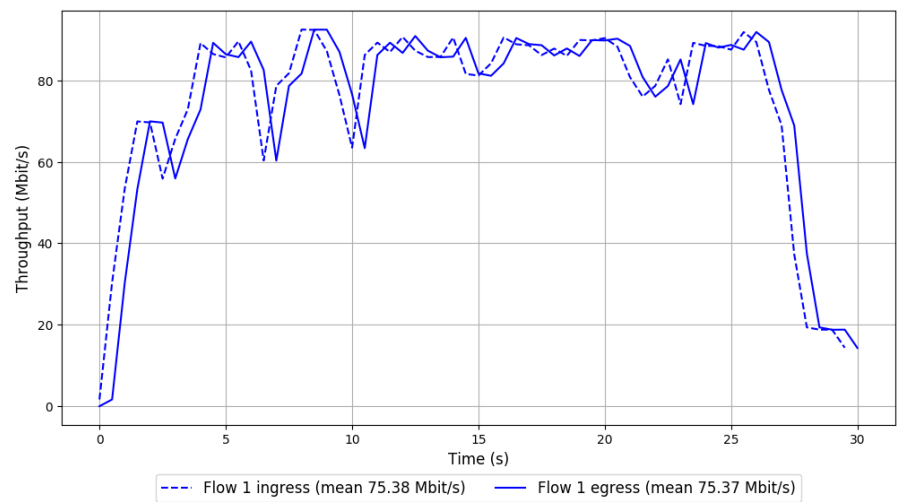
-- Flow 1:

Average throughput: 75.37 Mbit/s

95th percentile per-packet one-way delay: 2.148 ms

Loss rate: 0.02%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-02-11 23:39:49

End at: 2019-02-11 23:40:19

Local clock offset: -5.935 ms

Remote clock offset: 0.933 ms

Below is generated by plot.py at 2019-02-12 00:43:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.49 Mbit/s

95th percentile per-packet one-way delay: 2.566 ms

Loss rate: 0.02%

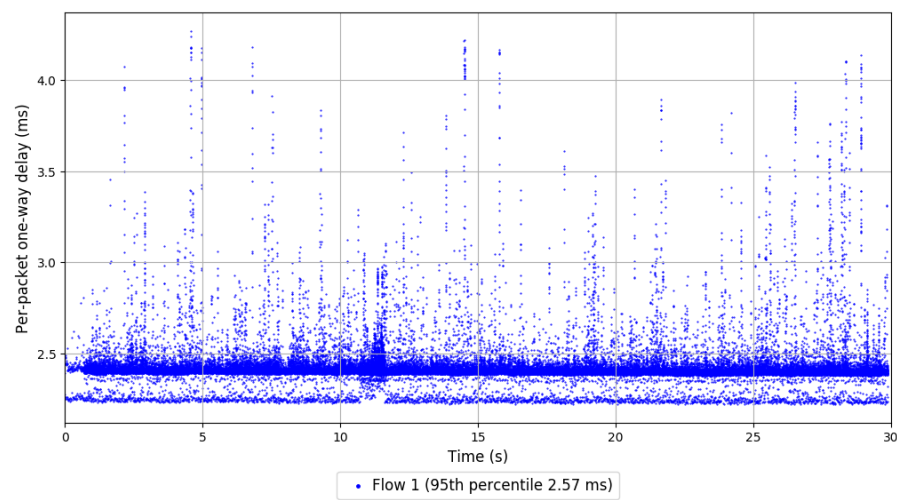
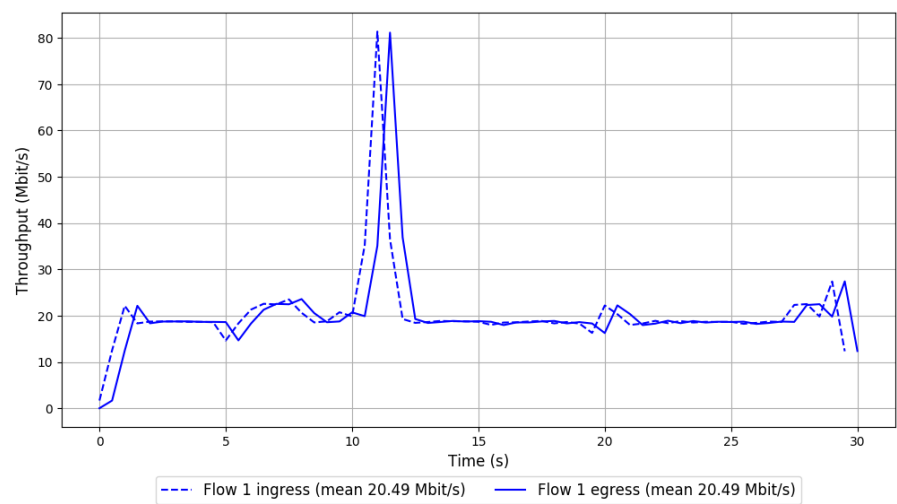
-- Flow 1:

Average throughput: 20.49 Mbit/s

95th percentile per-packet one-way delay: 2.566 ms

Loss rate: 0.02%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-02-12 00:03:28

End at: 2019-02-12 00:03:58

Local clock offset: -5.835 ms

Remote clock offset: 0.603 ms

Below is generated by plot.py at 2019-02-12 00:43:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.66 Mbit/s

95th percentile per-packet one-way delay: 2.628 ms

Loss rate: 0.01%

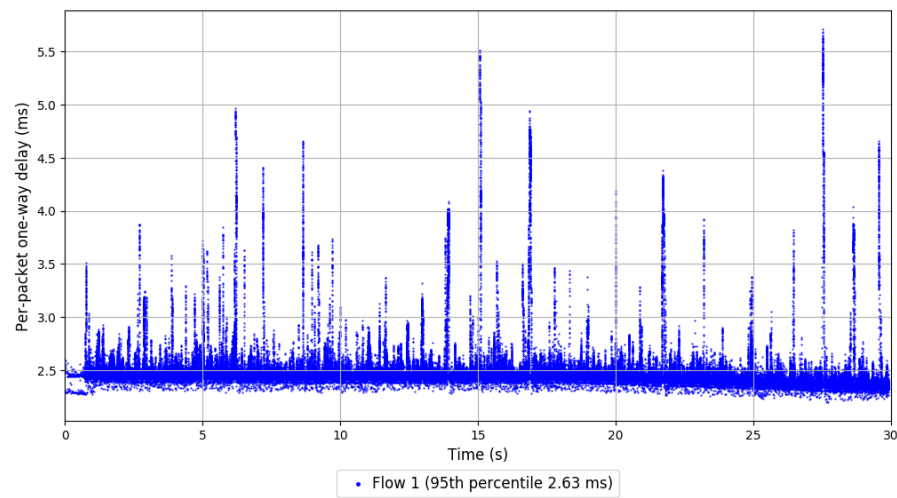
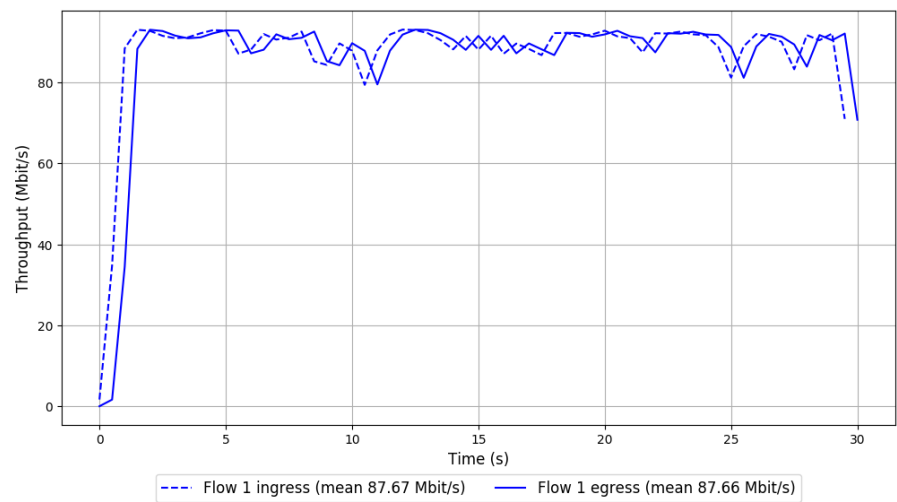
-- Flow 1:

Average throughput: 87.66 Mbit/s

95th percentile per-packet one-way delay: 2.628 ms

Loss rate: 0.01%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-02-12 00:27:14

End at: 2019-02-12 00:27:44

Local clock offset: -1.189 ms

Remote clock offset: 0.267 ms

Below is generated by plot.py at 2019-02-12 00:43:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.29 Mbit/s

95th percentile per-packet one-way delay: 4.922 ms

Loss rate: 0.02%

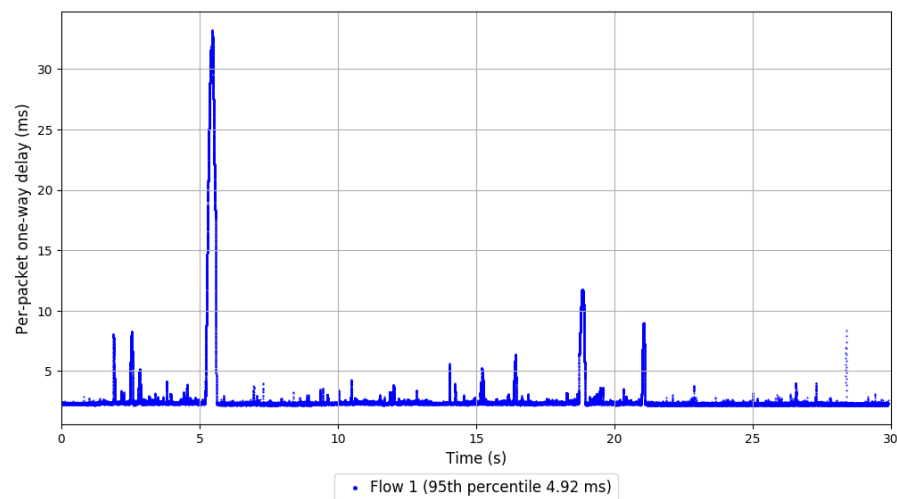
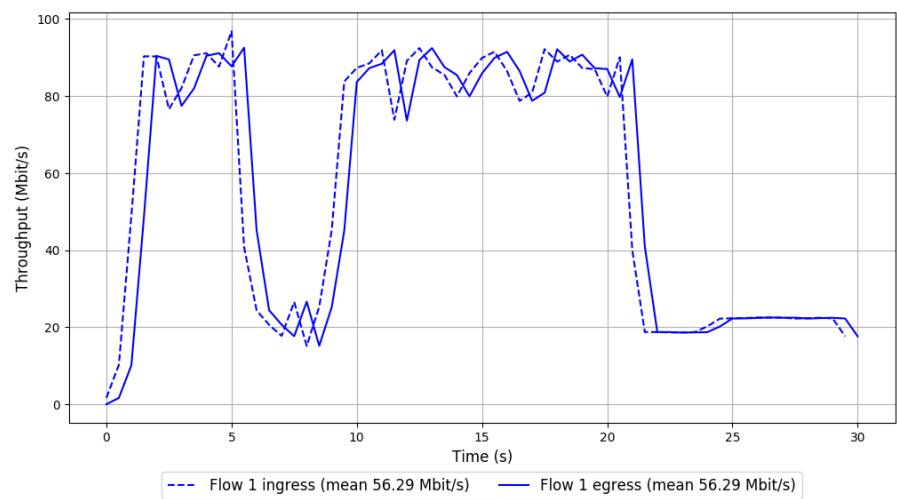
-- Flow 1:

Average throughput: 56.29 Mbit/s

95th percentile per-packet one-way delay: 4.922 ms

Loss rate: 0.02%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-02-11 22:32:14

End at: 2019-02-11 22:32:44

Local clock offset: -7.566 ms

Remote clock offset: 1.543 ms

Below is generated by plot.py at 2019-02-12 00:43:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 2.100 ms

Loss rate: 0.00%

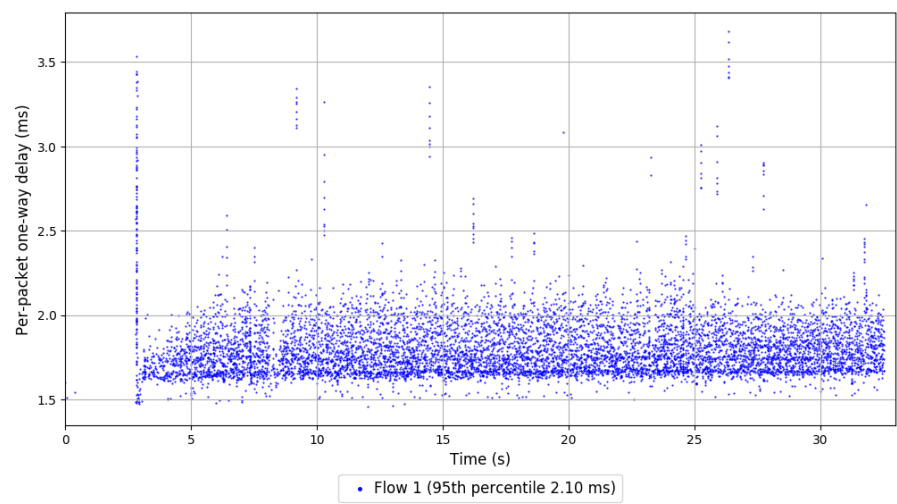
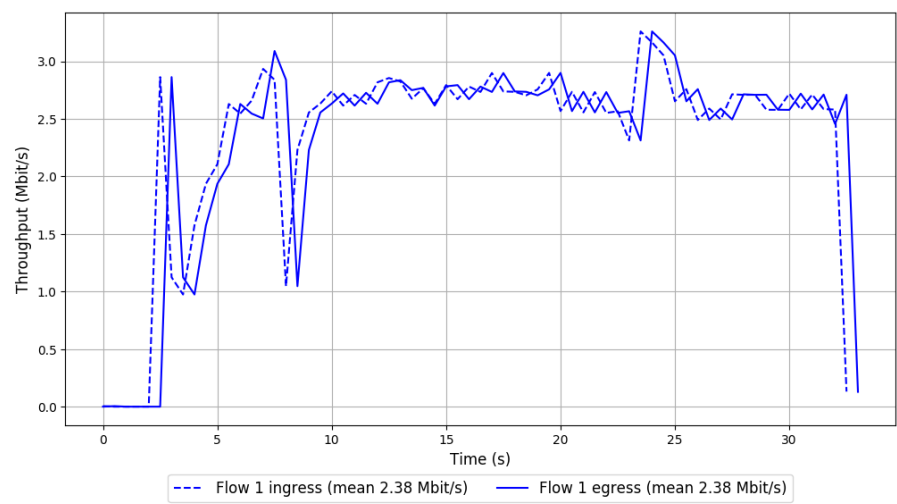
-- Flow 1:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 2.100 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-02-11 22:55:52

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

Local clock offset: -6.738 ms

Remote clock offset: 1.338 ms

Below is generated by plot.py at 2019-02-12 00:43:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 2.803 ms

Loss rate: 0.00%

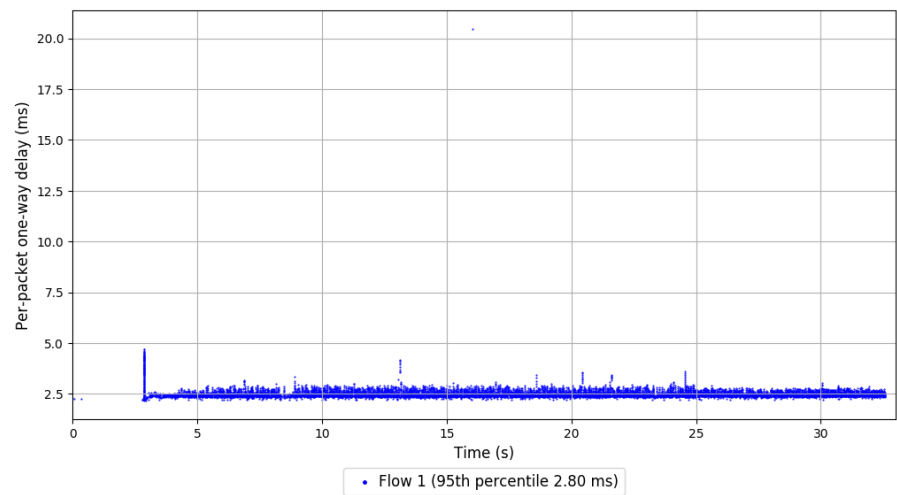
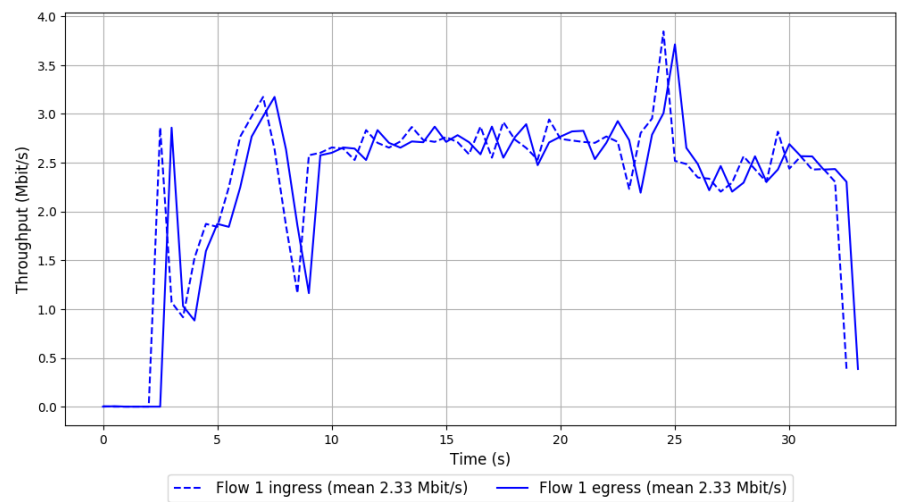
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 2.803 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-02-11 23:19:35

End at: 2019-02-11 23:20:06

Local clock offset: -6.01 ms

Remote clock offset: 1.221 ms

Below is generated by plot.py at 2019-02-12 00:43:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 2.970 ms

Loss rate: 0.05%

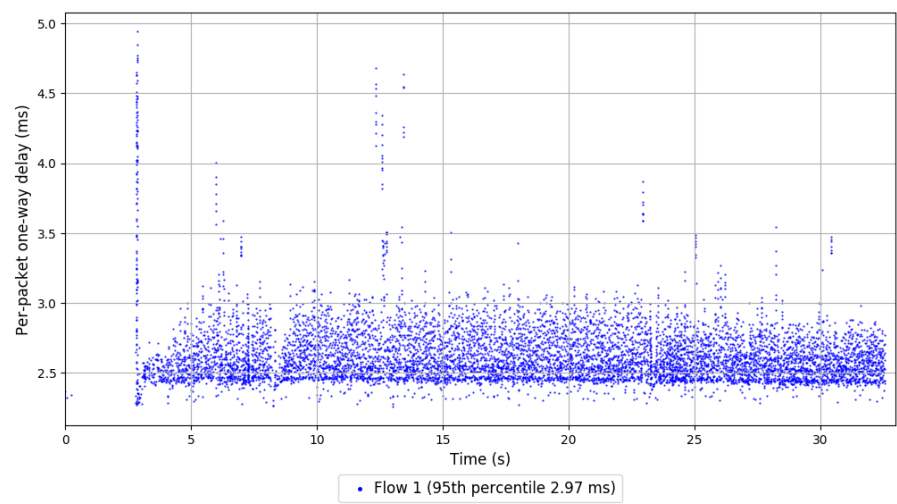
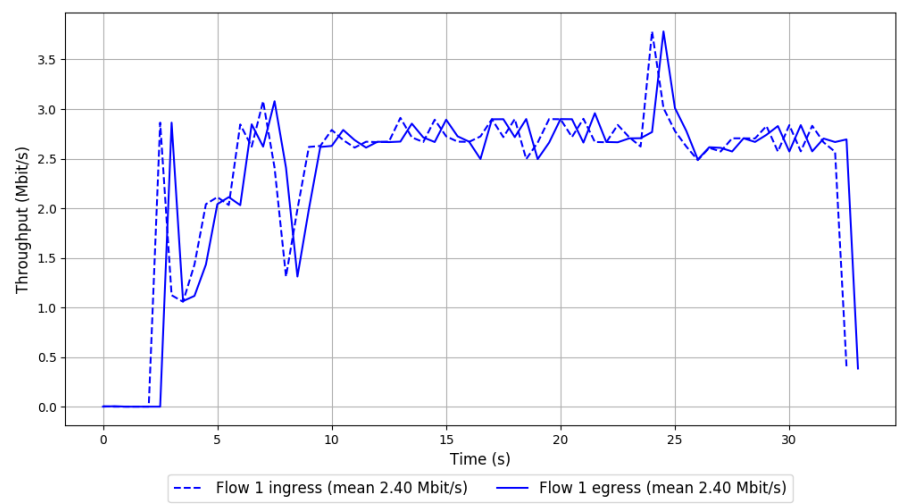
-- Flow 1:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 2.970 ms

Loss rate: 0.05%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-02-11 23:43:13

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

Local clock offset: -6.575 ms

Remote clock offset: 0.986 ms

Below is generated by plot.py at 2019-02-12 00:43:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 2.122 ms

Loss rate: 0.02%

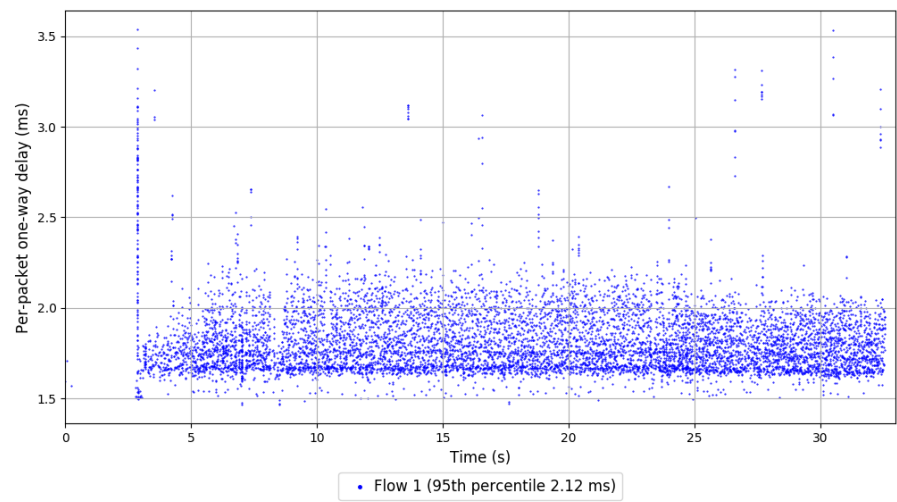
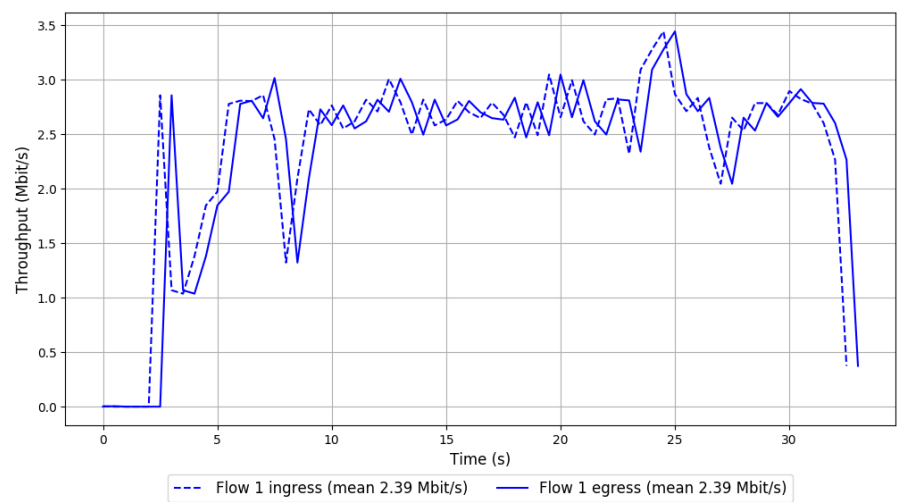
-- Flow 1:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 2.122 ms

Loss rate: 0.02%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-02-12 00:06:55

End at: 2019-02-12 00:07:25

Local clock offset: -4.666 ms

Remote clock offset: 0.562 ms

Below is generated by plot.py at 2019-02-12 00:43:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 2.706 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 2.706 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

