

Pantheon Report

Generated at 2019-03-19 12:10:20 (UTC).

Data path: Stanford on `eno1` (*remote*) → AWS California 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 `time.stanford.edu` and have been applied to correct the timestamps in logs.

System info:

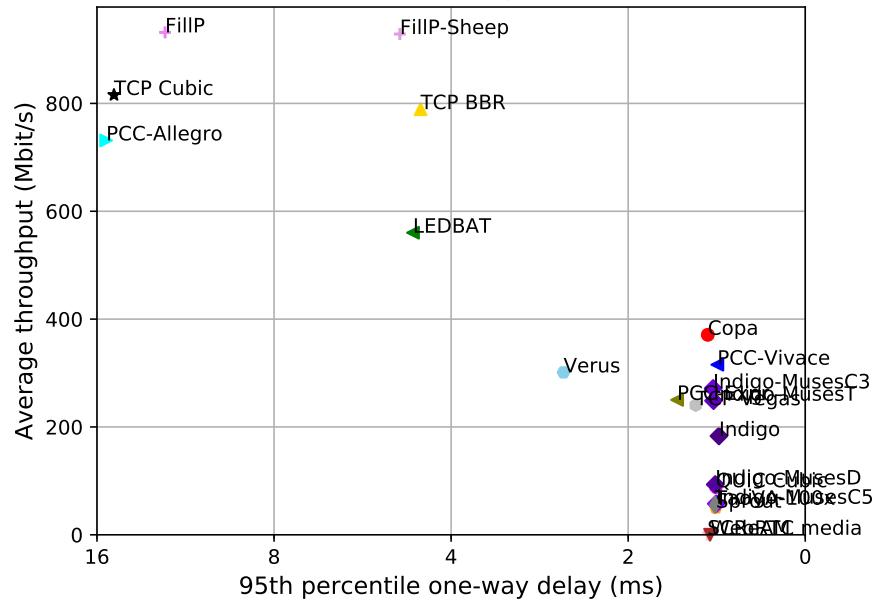
```
Linux 4.15.0-1033-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

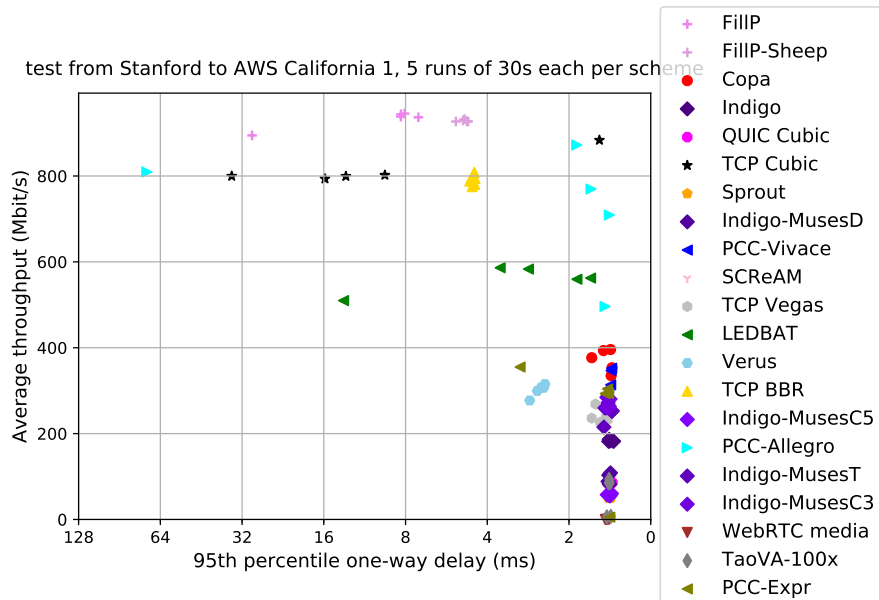
```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d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

third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from Stanford to AWS California 1, 5 runs of 30s each per scheme
(mean of all runs by scheme)



test from Stanford to AWS California 1, 5 runs of 30s each per scheme



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	789.31	4.51	0.02
Copa	5	370.87	1.10	0.01
TCP Cubic	5	815.65	14.97	0.03
FillP	5	931.72	12.26	0.04
FillP-Sheep	5	928.63	4.89	0.01
Indigo	5	183.27	0.97	0.01
Indigo-MusesC3	5	271.45	1.04	0.00
Indigo-MusesC5	5	57.62	1.01	0.00
Indigo-MusesD	5	93.32	1.02	0.00
Indigo-MusesT	5	248.71	1.04	0.01
LEDBAT	5	560.23	4.64	0.01
PCC-Allegro	5	731.35	15.43	0.03
PCC-Expr	5	250.18	1.45	0.02
QUIC Cubic	5	88.21	1.01	0.01
SCReAM	5	0.22	1.11	0.05
Sprout	5	50.26	1.01	0.00
TaoVA-100x	5	55.69	1.02	0.01
TCP Vegas	5	240.33	1.24	0.01
Verus	5	301.19	2.58	0.01
PCC-Vivace	5	315.46	0.99	0.01
WebRTC media	5	0.05	1.08	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-03-19 08:41:29

End at: 2019-03-19 08:41:59

Local clock offset: 0.96 ms

Remote clock offset: -0.013 ms

Below is generated by plot.py at 2019-03-19 11:20:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 808.49 Mbit/s

95th percentile per-packet one-way delay: 4.465 ms

Loss rate: 0.02%

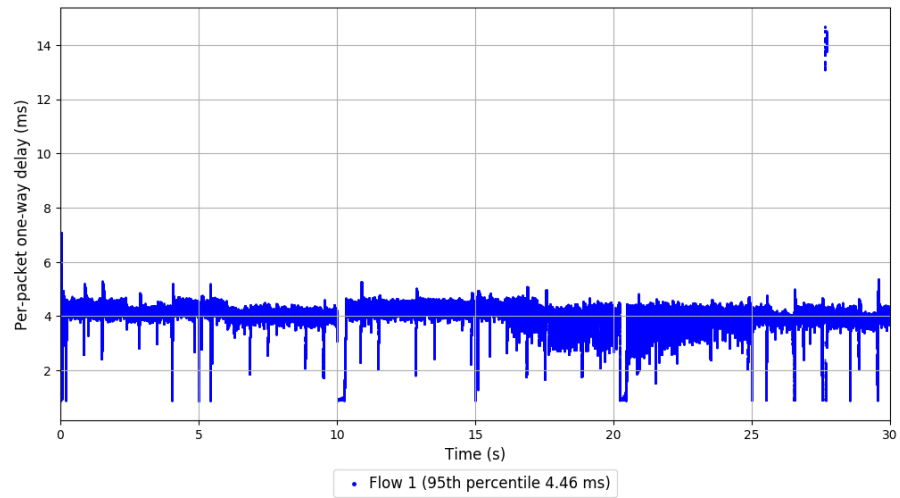
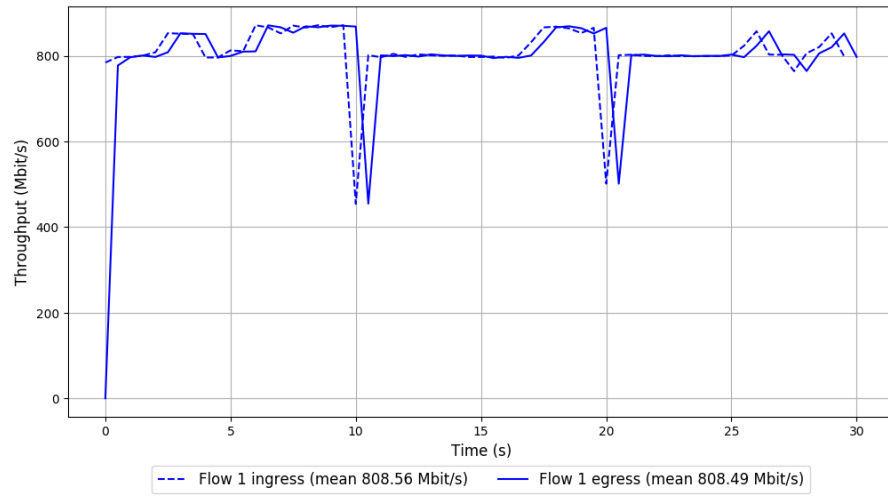
-- Flow 1:

Average throughput: 808.49 Mbit/s

95th percentile per-packet one-way delay: 4.465 ms

Loss rate: 0.02%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-03-19 09:11:15

End at: 2019-03-19 09:11:45

Local clock offset: 0.197 ms

Remote clock offset: 0.436 ms

Below is generated by plot.py at 2019-03-19 11:20:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 775.26 Mbit/s

95th percentile per-packet one-way delay: 4.546 ms

Loss rate: 0.02%

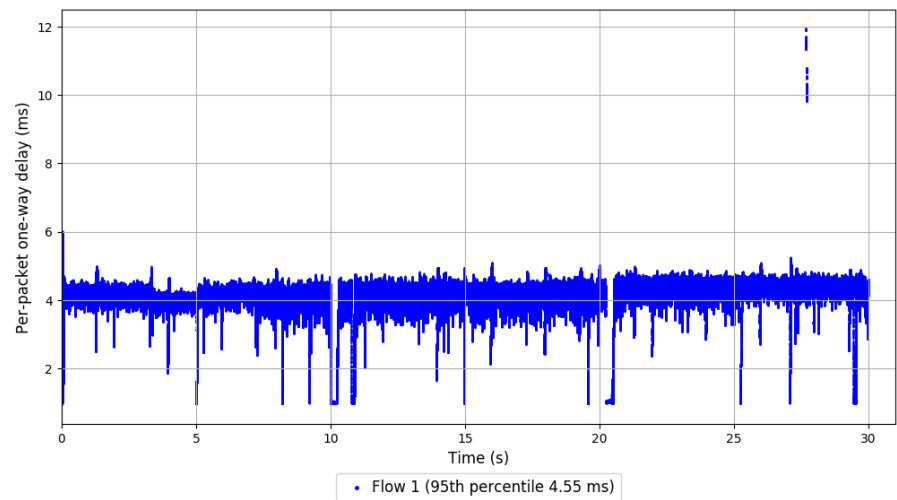
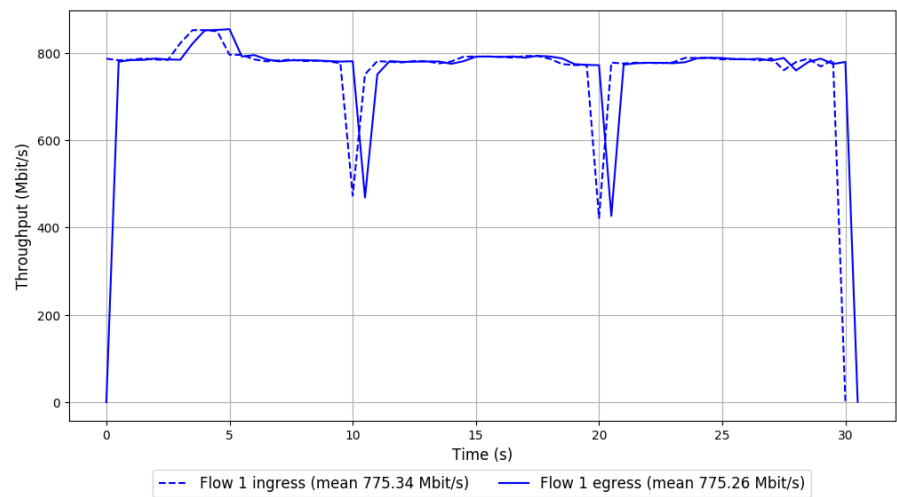
-- Flow 1:

Average throughput: 775.26 Mbit/s

95th percentile per-packet one-way delay: 4.546 ms

Loss rate: 0.02%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-03-19 09:41:03

End at: 2019-03-19 09:41:33

Local clock offset: 0.431 ms

Remote clock offset: 0.49 ms

Below is generated by plot.py at 2019-03-19 11:20:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 780.54 Mbit/s

95th percentile per-packet one-way delay: 4.449 ms

Loss rate: 0.02%

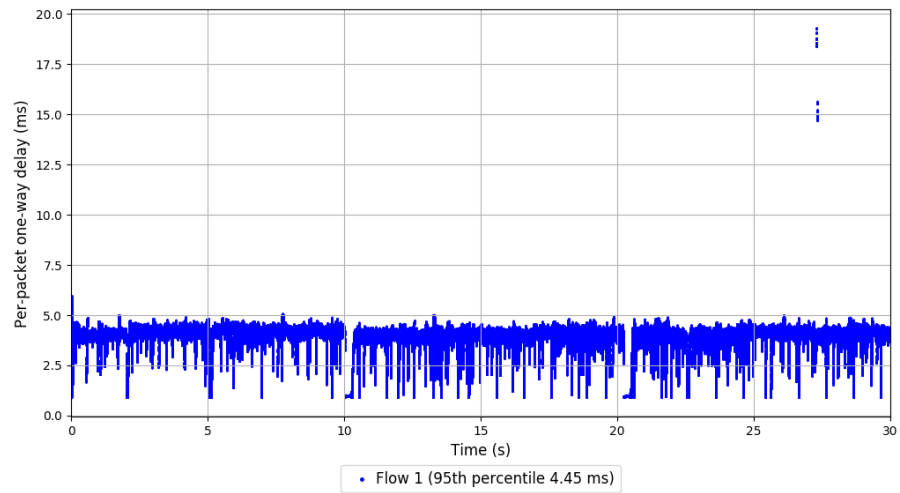
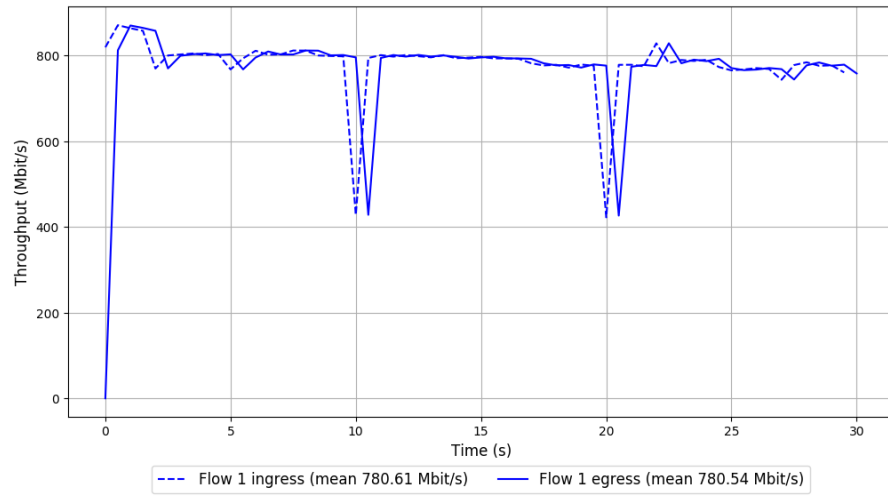
-- Flow 1:

Average throughput: 780.54 Mbit/s

95th percentile per-packet one-way delay: 4.449 ms

Loss rate: 0.02%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-03-19 10:10:49

End at: 2019-03-19 10:11:19

Local clock offset: 1.216 ms

Remote clock offset: 0.035 ms

Below is generated by plot.py at 2019-03-19 11:20:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 788.01 Mbit/s

95th percentile per-packet one-way delay: 4.641 ms

Loss rate: 0.02%

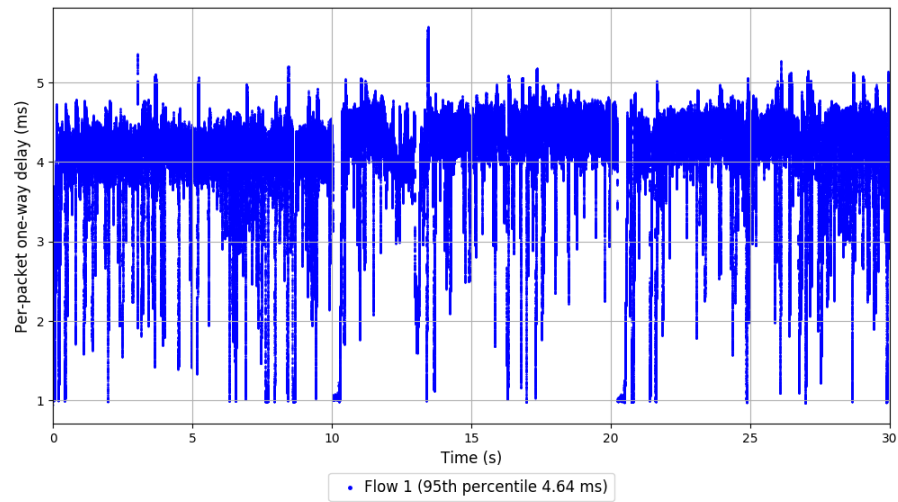
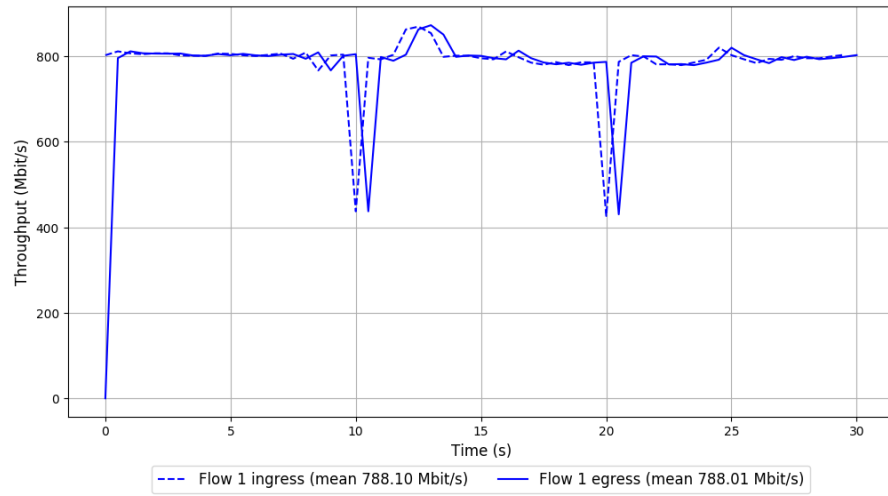
-- Flow 1:

Average throughput: 788.01 Mbit/s

95th percentile per-packet one-way delay: 4.641 ms

Loss rate: 0.02%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-03-19 10:40:40

End at: 2019-03-19 10:41:10

Local clock offset: 0.254 ms

Remote clock offset: 0.015 ms

Below is generated by plot.py at 2019-03-19 11:20:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 794.26 Mbit/s

95th percentile per-packet one-way delay: 4.440 ms

Loss rate: 0.02%

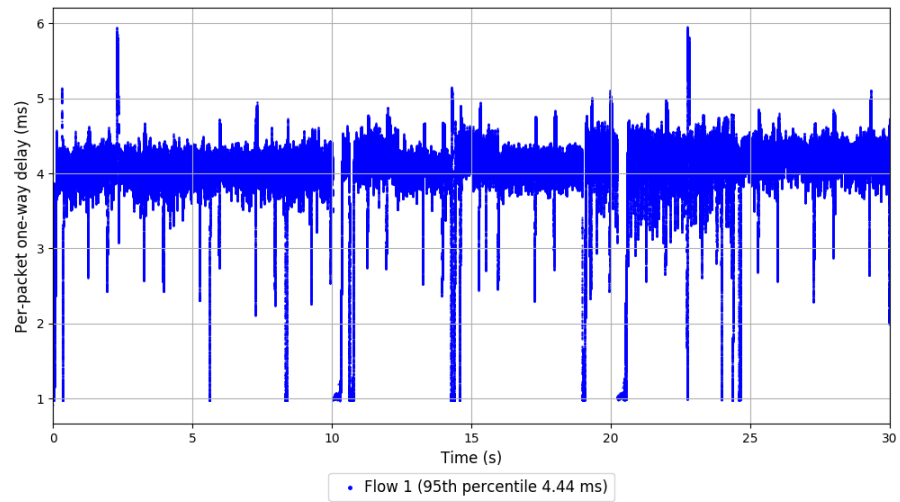
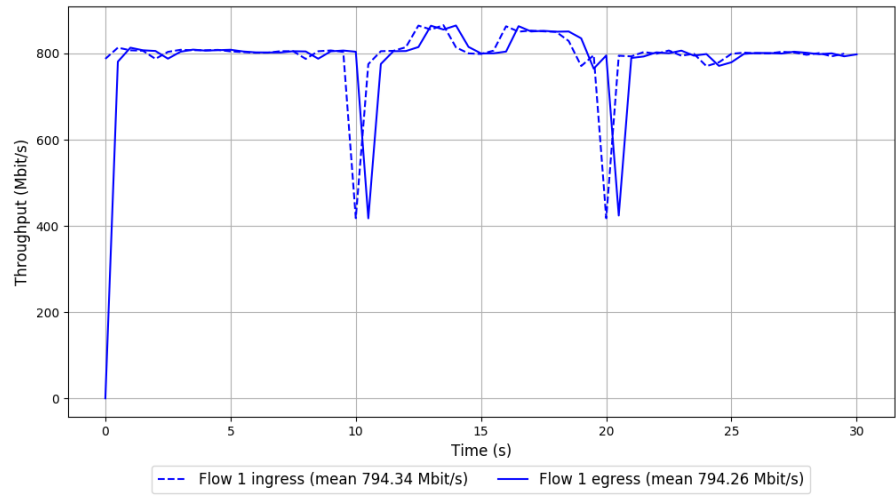
-- Flow 1:

Average throughput: 794.26 Mbit/s

95th percentile per-packet one-way delay: 4.440 ms

Loss rate: 0.02%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-03-19 08:47:26

End at: 2019-03-19 08:47:56

Local clock offset: 0.887 ms

Remote clock offset: 0.065 ms

Below is generated by plot.py at 2019-03-19 11:20:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 376.78 Mbit/s

95th percentile per-packet one-way delay: 1.444 ms

Loss rate: 0.01%

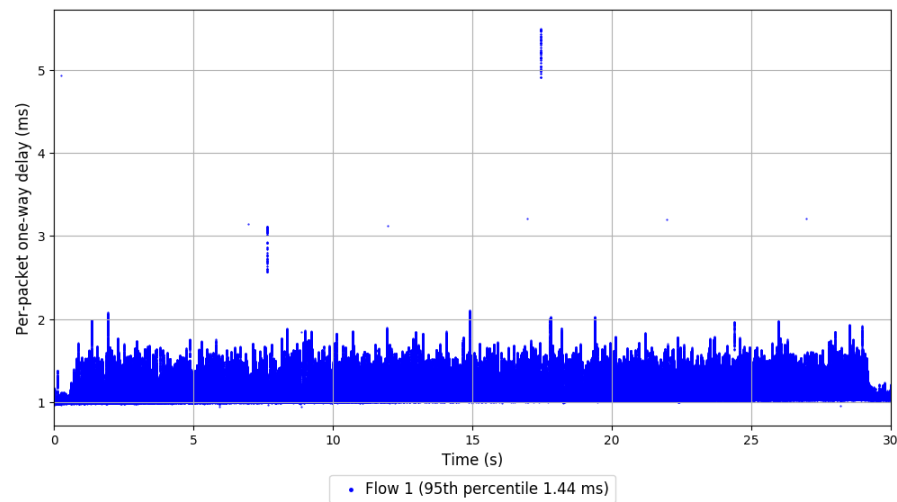
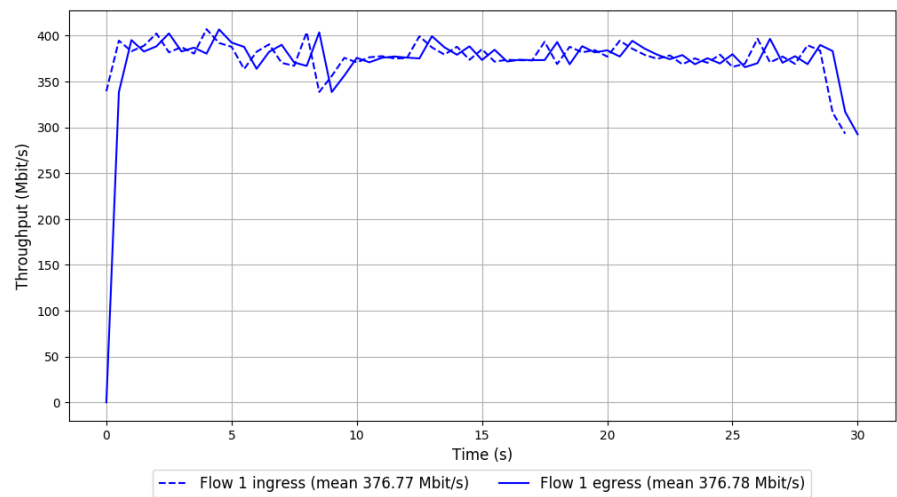
-- Flow 1:

Average throughput: 376.78 Mbit/s

95th percentile per-packet one-way delay: 1.444 ms

Loss rate: 0.01%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-03-19 09:17:17

End at: 2019-03-19 09:17:47

Local clock offset: 0.18 ms

Remote clock offset: 0.611 ms

Below is generated by plot.py at 2019-03-19 11:20:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 334.99 Mbit/s

95th percentile per-packet one-way delay: 0.970 ms

Loss rate: 0.01%

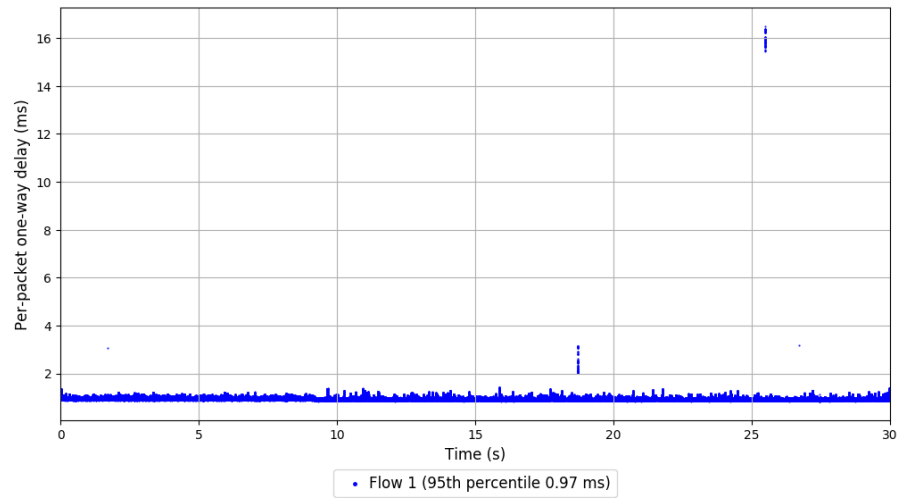
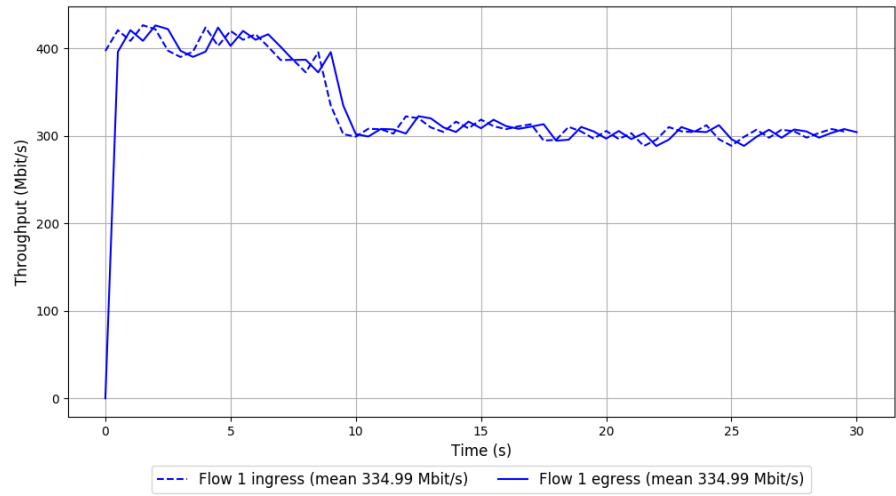
-- Flow 1:

Average throughput: 334.99 Mbit/s

95th percentile per-packet one-way delay: 0.970 ms

Loss rate: 0.01%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-03-19 09:47:04

End at: 2019-03-19 09:47:34

Local clock offset: 0.466 ms

Remote clock offset: 0.515 ms

Below is generated by plot.py at 2019-03-19 11:20:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 395.87 Mbit/s

95th percentile per-packet one-way delay: 0.984 ms

Loss rate: 0.00%

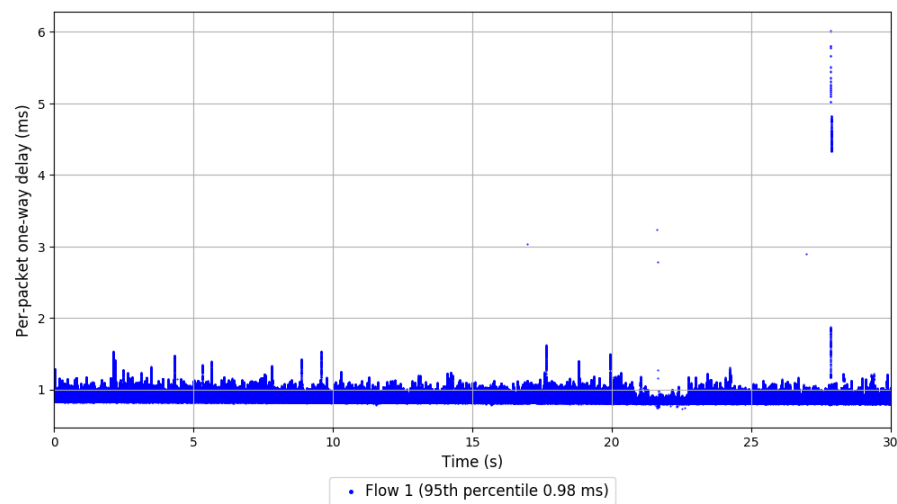
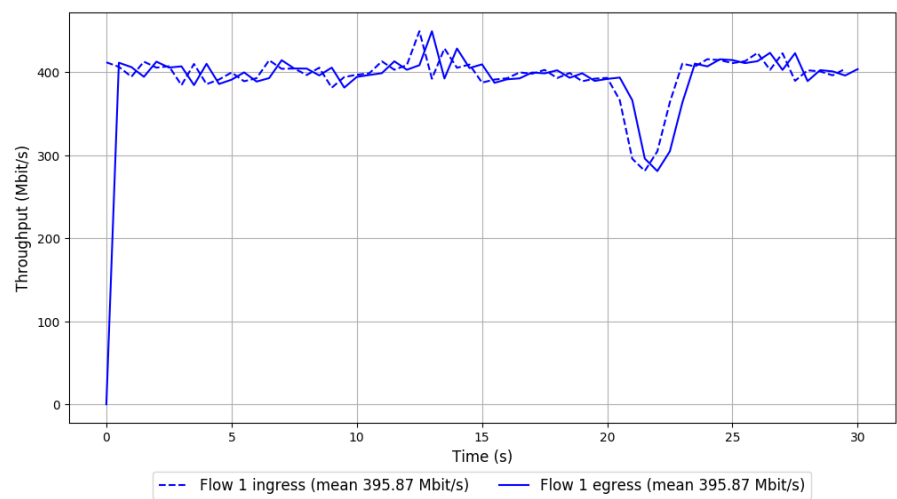
-- Flow 1:

Average throughput: 395.87 Mbit/s

95th percentile per-packet one-way delay: 0.984 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link

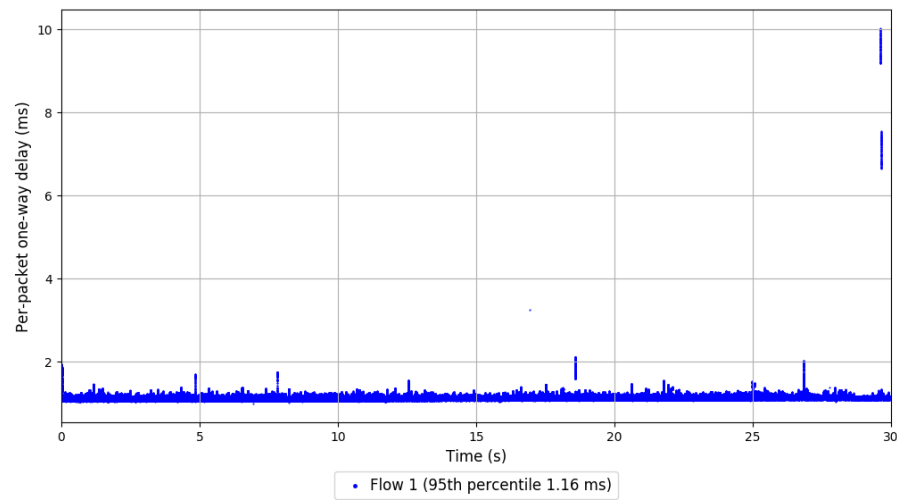
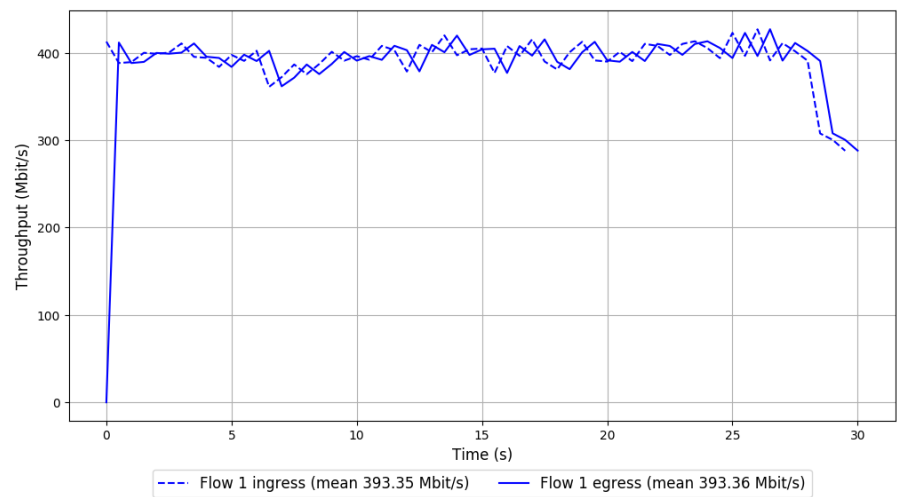


Run 4: Statistics of Copa

Start at: 2019-03-19 10:16:56
End at: 2019-03-19 10:17:26
Local clock offset: 1.196 ms
Remote clock offset: -0.065 ms

Below is generated by plot.py at 2019-03-19 11:27:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 393.36 Mbit/s
95th percentile per-packet one-way delay: 1.157 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 393.36 Mbit/s
95th percentile per-packet one-way delay: 1.157 ms
Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-03-19 10:46:44

End at: 2019-03-19 10:47:14

Local clock offset: 0.214 ms

Remote clock offset: 0.152 ms

Below is generated by plot.py at 2019-03-19 11:27:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 353.37 Mbit/s

95th percentile per-packet one-way delay: 0.949 ms

Loss rate: 0.01%

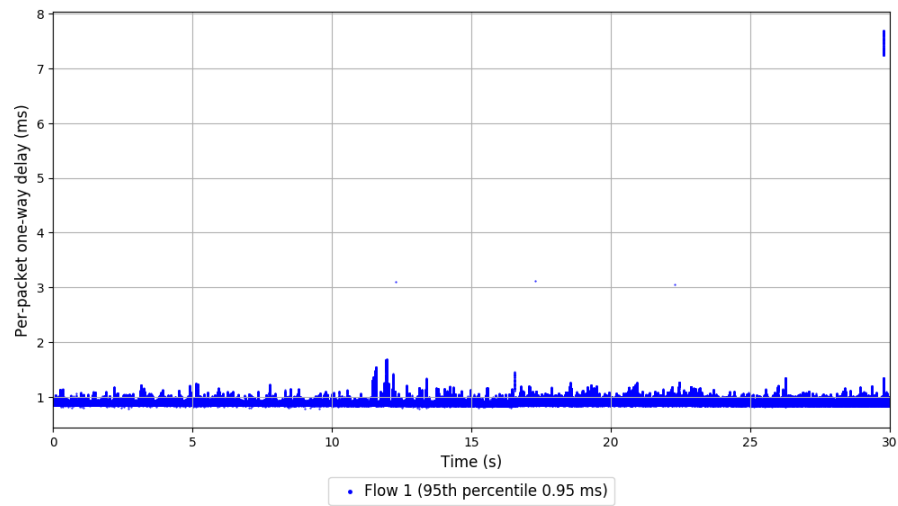
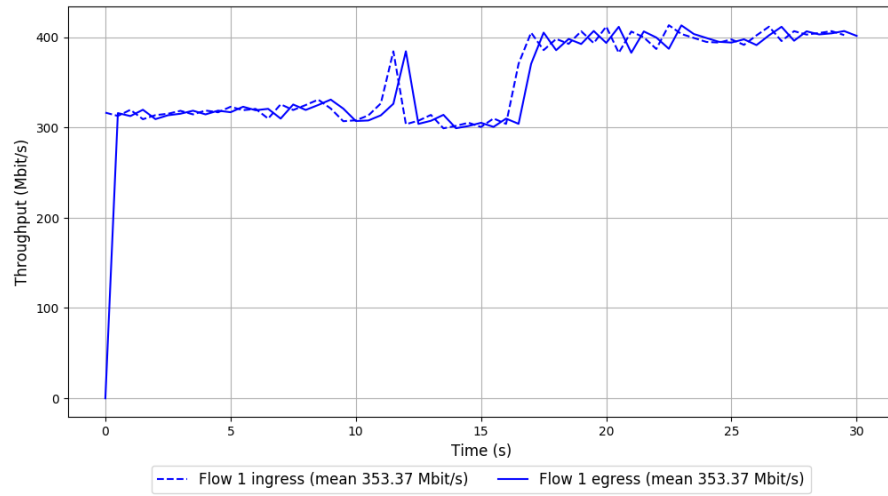
-- Flow 1:

Average throughput: 353.37 Mbit/s

95th percentile per-packet one-way delay: 0.949 ms

Loss rate: 0.01%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-03-19 08:54:36

End at: 2019-03-19 08:55:06

Local clock offset: 0.522 ms

Remote clock offset: 0.16 ms

Below is generated by plot.py at 2019-03-19 11:28:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 799.68 Mbit/s

95th percentile per-packet one-way delay: 34.943 ms

Loss rate: 0.03%

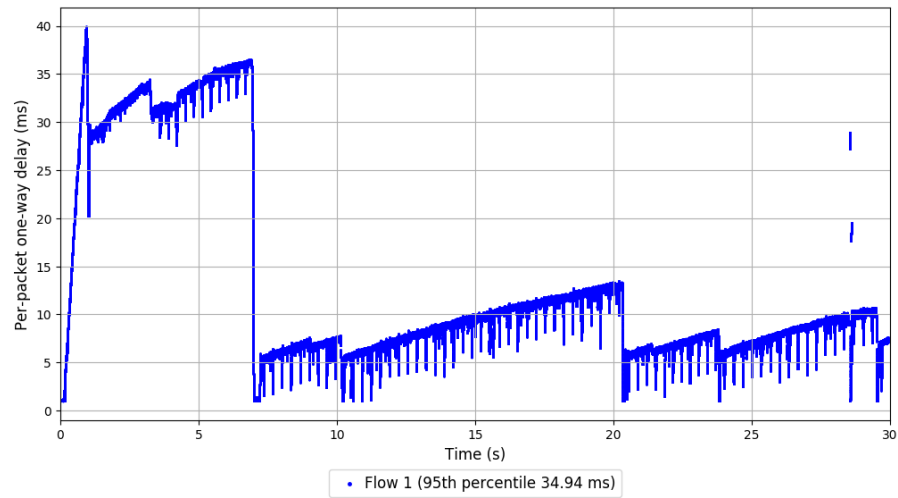
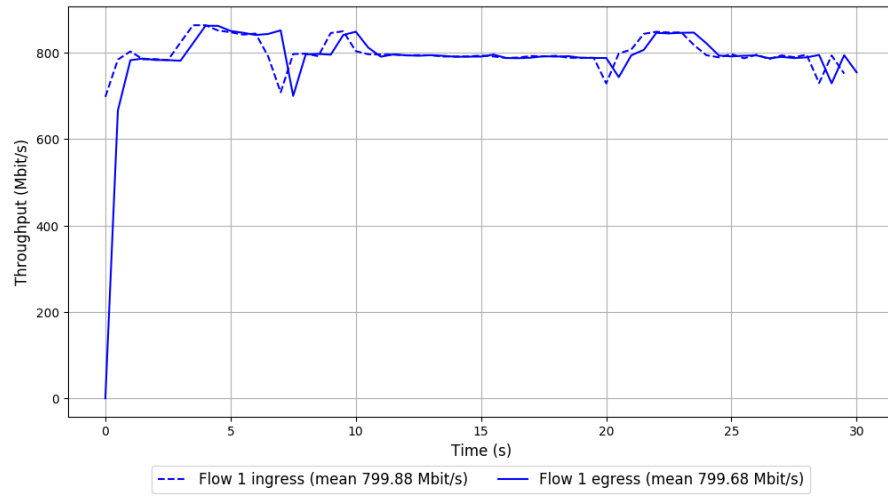
-- Flow 1:

Average throughput: 799.68 Mbit/s

95th percentile per-packet one-way delay: 34.943 ms

Loss rate: 0.03%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-03-19 09:24:24

End at: 2019-03-19 09:24:54

Local clock offset: 0.334 ms

Remote clock offset: 0.835 ms

Below is generated by plot.py at 2019-03-19 11:28:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 793.50 Mbit/s

95th percentile per-packet one-way delay: 15.845 ms

Loss rate: 0.04%

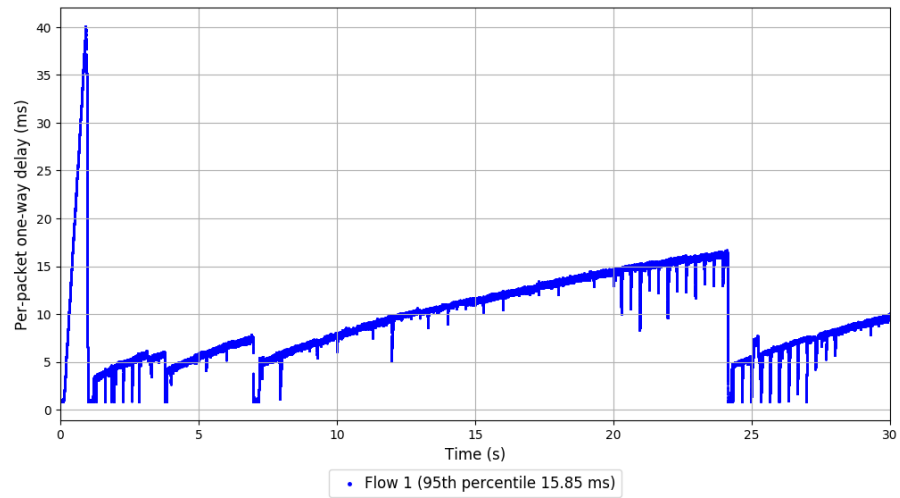
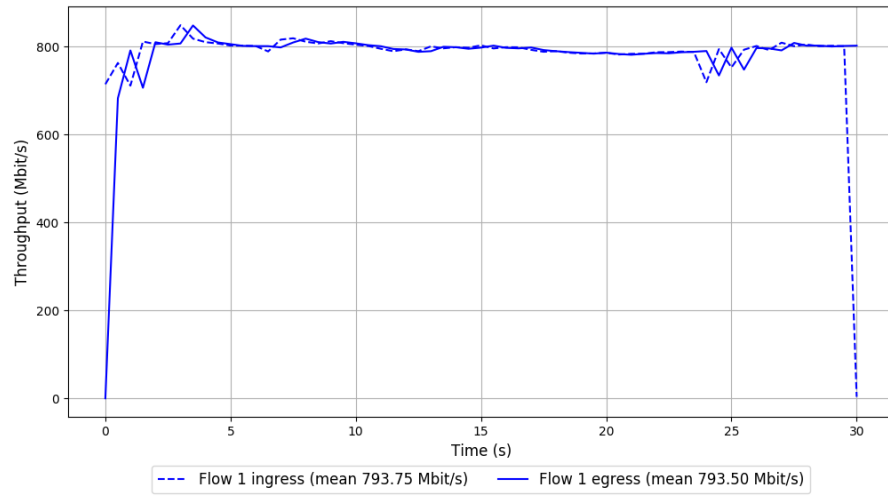
-- Flow 1:

Average throughput: 793.50 Mbit/s

95th percentile per-packet one-way delay: 15.845 ms

Loss rate: 0.04%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2019-03-19 09:54:14

End at: 2019-03-19 09:54:44

Local clock offset: 0.859 ms

Remote clock offset: 0.581 ms

Below is generated by plot.py at 2019-03-19 11:28:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 802.09 Mbit/s

95th percentile per-packet one-way delay: 9.534 ms

Loss rate: 0.03%

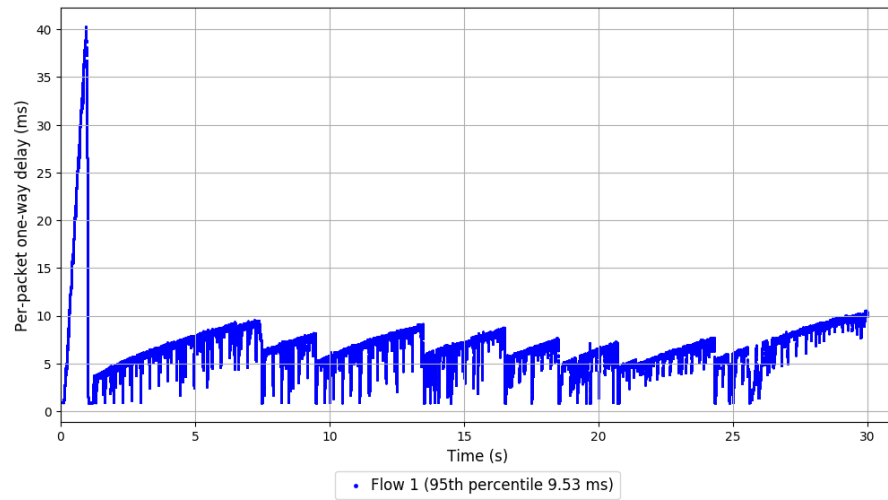
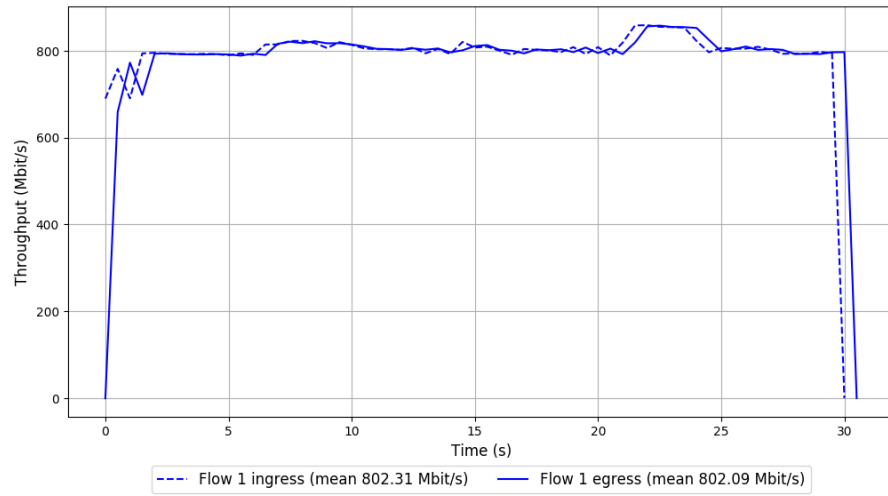
-- Flow 1:

Average throughput: 802.09 Mbit/s

95th percentile per-packet one-way delay: 9.534 ms

Loss rate: 0.03%

Run 3: Report of TCP Cubic — Data Link

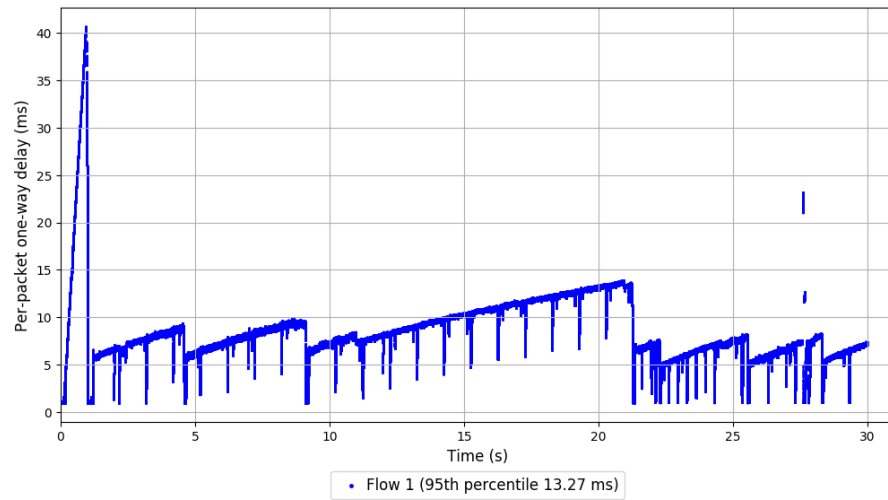
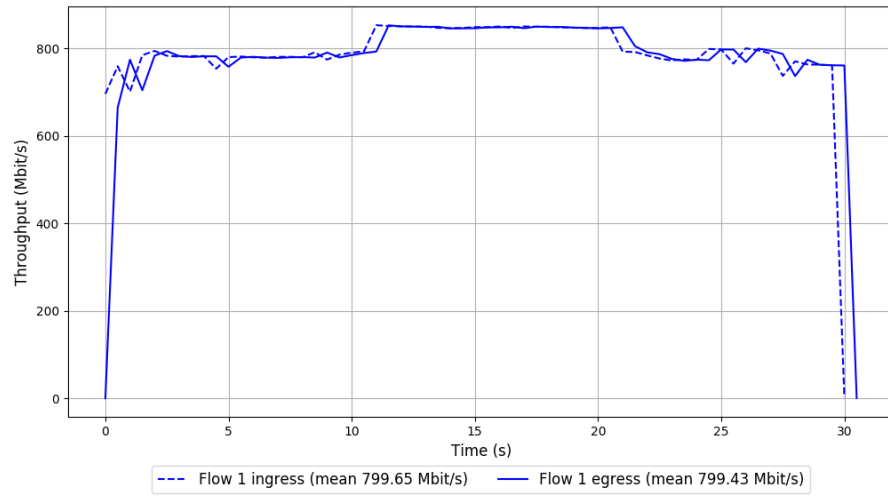


Run 4: Statistics of TCP Cubic

Start at: 2019-03-19 10:24:06
End at: 2019-03-19 10:24:36
Local clock offset: 0.665 ms
Remote clock offset: -0.082 ms

Below is generated by plot.py at 2019-03-19 11:29:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 799.43 Mbit/s
95th percentile per-packet one-way delay: 13.273 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 799.43 Mbit/s
95th percentile per-packet one-way delay: 13.273 ms
Loss rate: 0.03%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-03-19 10:53:54

End at: 2019-03-19 10:54:24

Local clock offset: 0.478 ms

Remote clock offset: 0.165 ms

Below is generated by plot.py at 2019-03-19 11:30:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 883.54 Mbit/s

95th percentile per-packet one-way delay: 1.256 ms

Loss rate: 0.01%

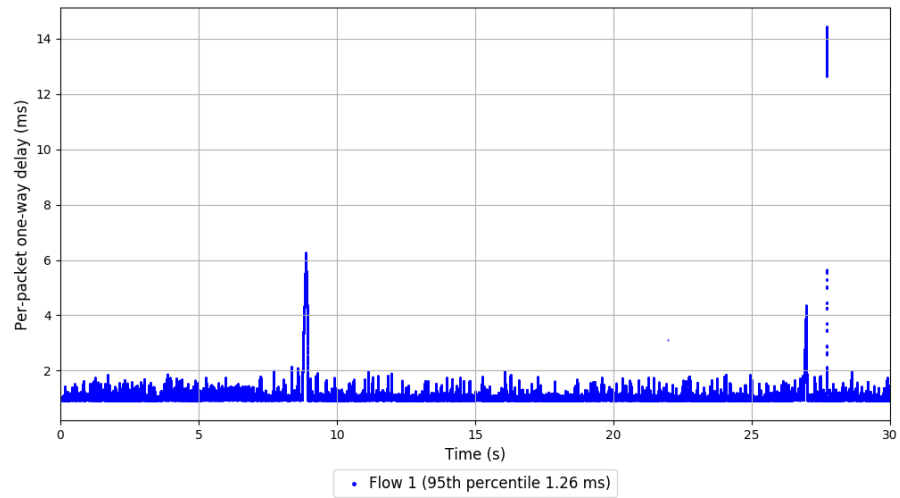
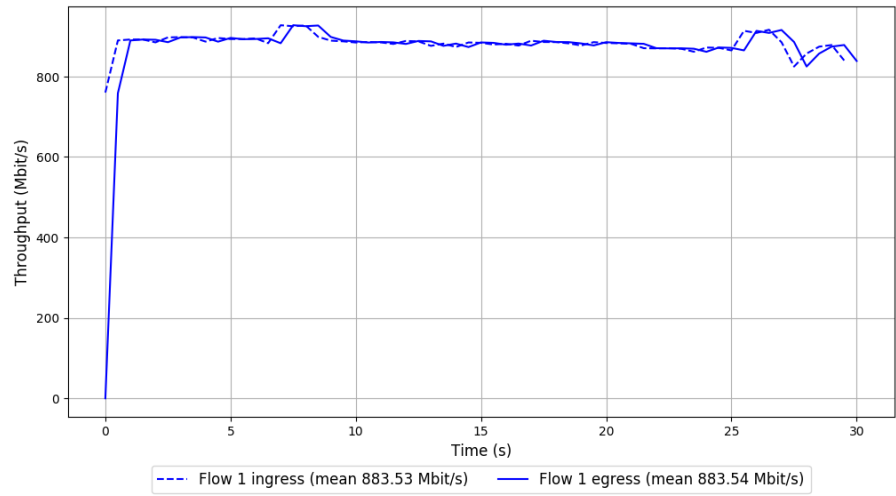
-- Flow 1:

Average throughput: 883.54 Mbit/s

95th percentile per-packet one-way delay: 1.256 ms

Loss rate: 0.01%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-03-19 08:52:58

End at: 2019-03-19 08:53:28

Local clock offset: 0.579 ms

Remote clock offset: 0.138 ms

Below is generated by plot.py at 2019-03-19 11:32:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 943.68 Mbit/s

95th percentile per-packet one-way delay: 8.320 ms

Loss rate: 0.01%

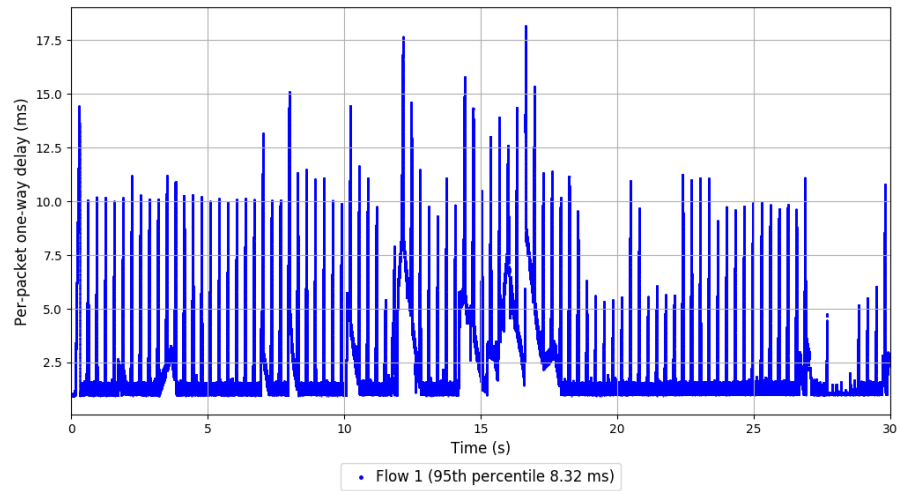
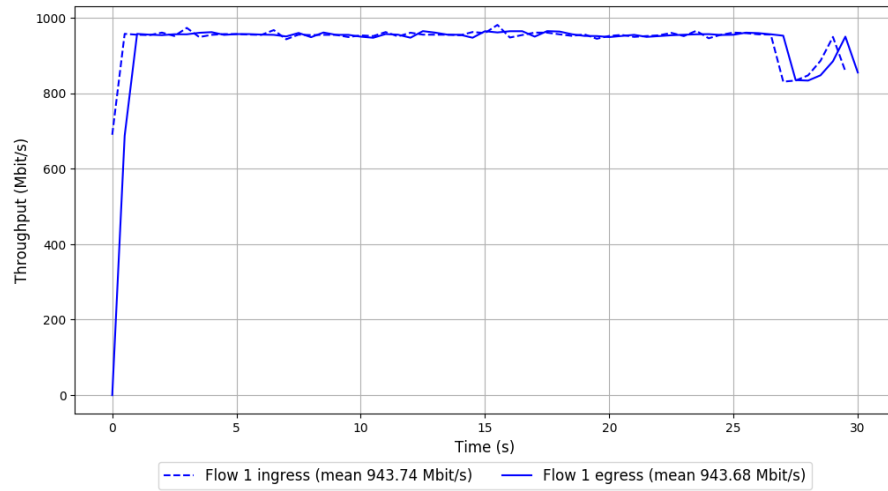
-- Flow 1:

Average throughput: 943.68 Mbit/s

95th percentile per-packet one-way delay: 8.320 ms

Loss rate: 0.01%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-03-19 09:22:46

End at: 2019-03-19 09:23:16

Local clock offset: 0.312 ms

Remote clock offset: 0.704 ms

Below is generated by plot.py at 2019-03-19 11:40:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 938.36 Mbit/s

95th percentile per-packet one-way delay: 8.324 ms

Loss rate: 0.03%

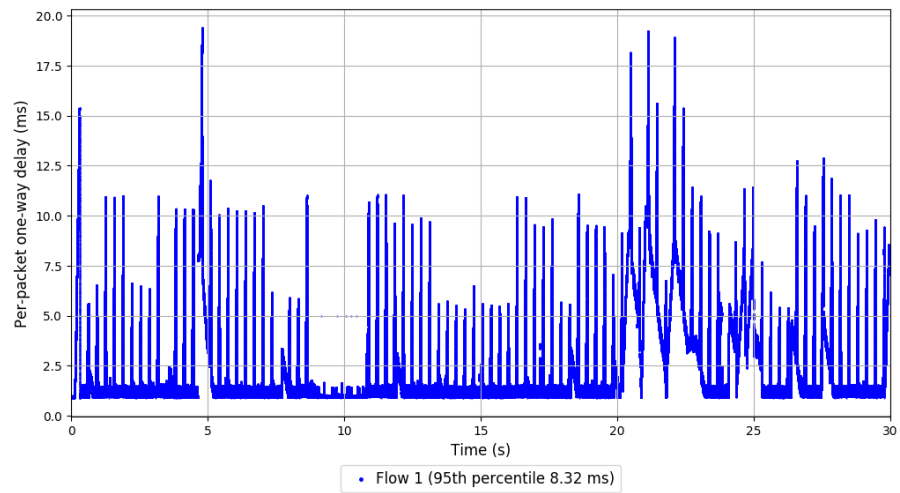
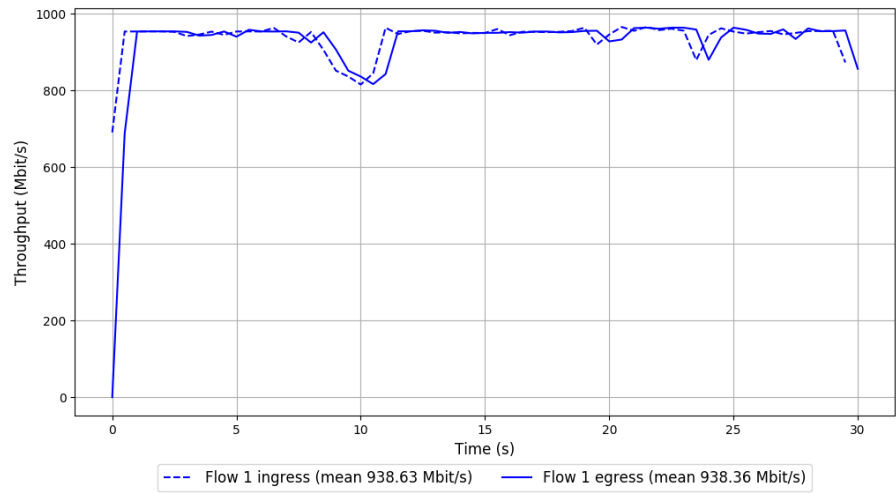
-- Flow 1:

Average throughput: 938.36 Mbit/s

95th percentile per-packet one-way delay: 8.324 ms

Loss rate: 0.03%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-03-19 09:52:38

End at: 2019-03-19 09:53:08

Local clock offset: 0.816 ms

Remote clock offset: 0.545 ms

Below is generated by plot.py at 2019-03-19 11:40:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 894.48 Mbit/s

95th percentile per-packet one-way delay: 29.400 ms

Loss rate: 0.16%

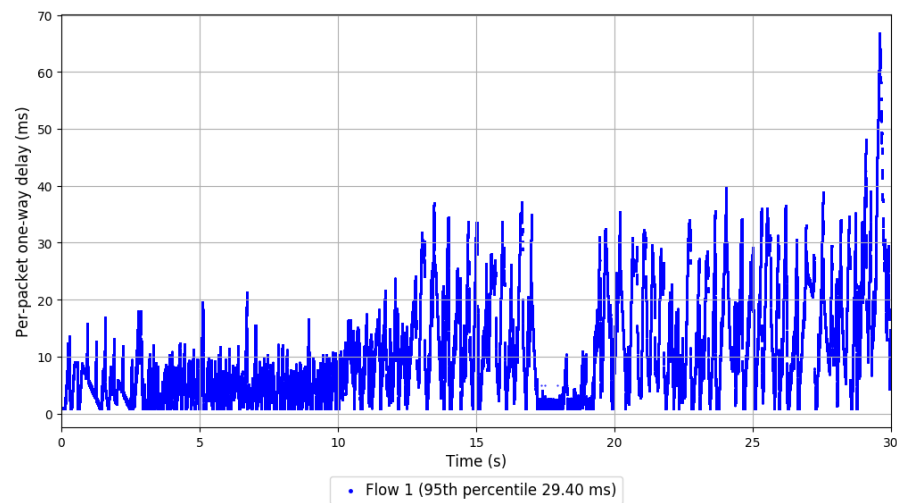
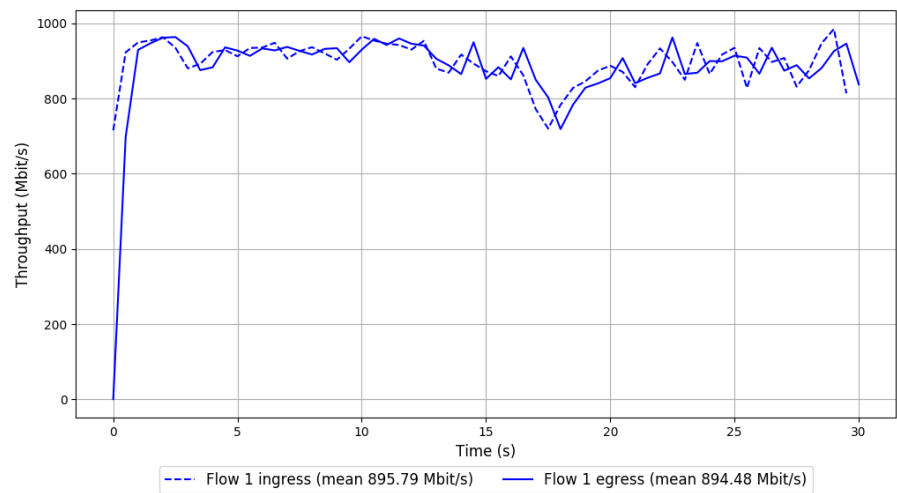
-- Flow 1:

Average throughput: 894.48 Mbit/s

95th percentile per-packet one-way delay: 29.400 ms

Loss rate: 0.16%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-03-19 10:22:28

End at: 2019-03-19 10:22:58

Local clock offset: 0.772 ms

Remote clock offset: -0.07 ms

Below is generated by plot.py at 2019-03-19 11:41:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 945.34 Mbit/s

95th percentile per-packet one-way delay: 8.063 ms

Loss rate: 0.01%

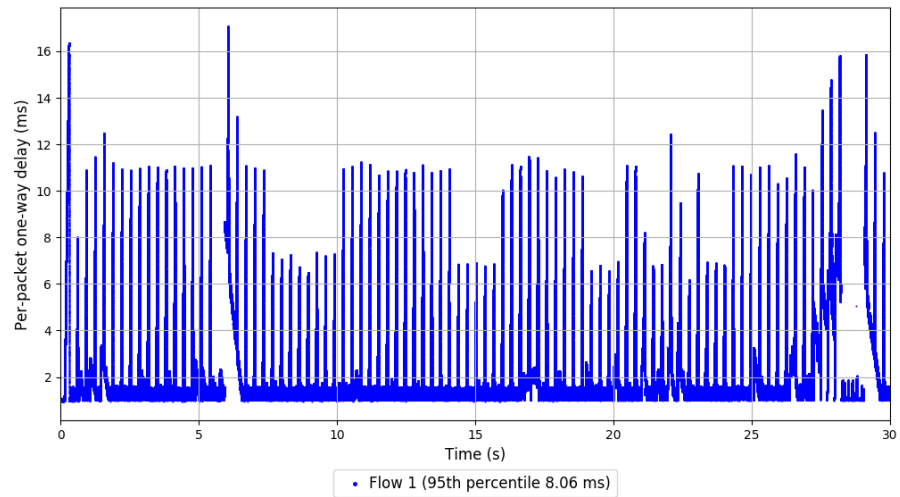
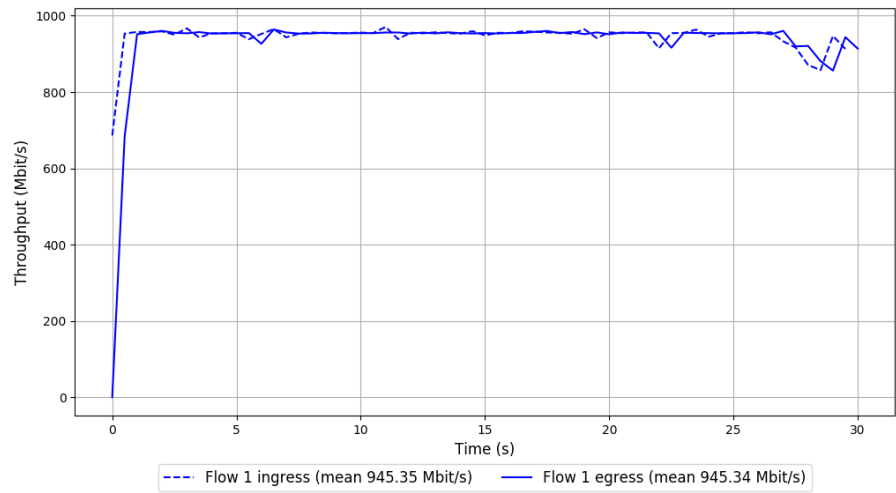
-- Flow 1:

Average throughput: 945.34 Mbit/s

95th percentile per-packet one-way delay: 8.063 ms

Loss rate: 0.01%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-03-19 10:52:15

End at: 2019-03-19 10:52:45

Local clock offset: 0.435 ms

Remote clock offset: 0.131 ms

Below is generated by plot.py at 2019-03-19 11:41:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 936.72 Mbit/s

95th percentile per-packet one-way delay: 7.177 ms

Loss rate: 0.01%

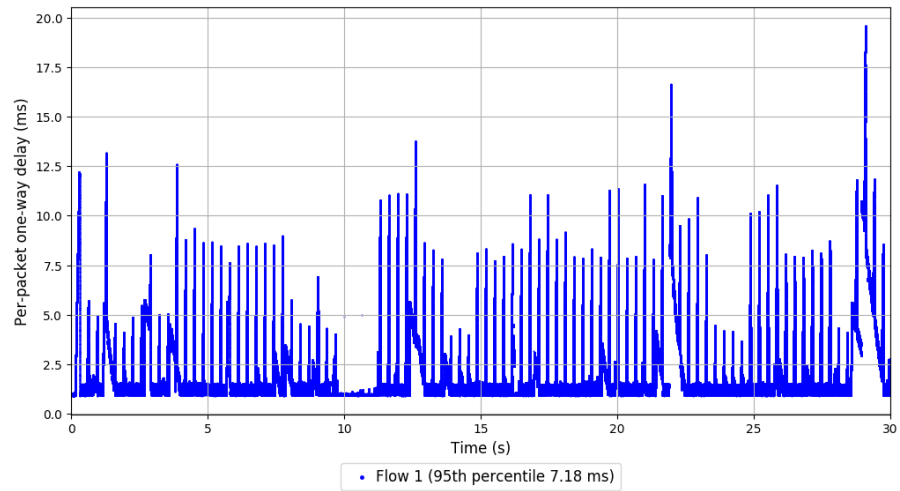
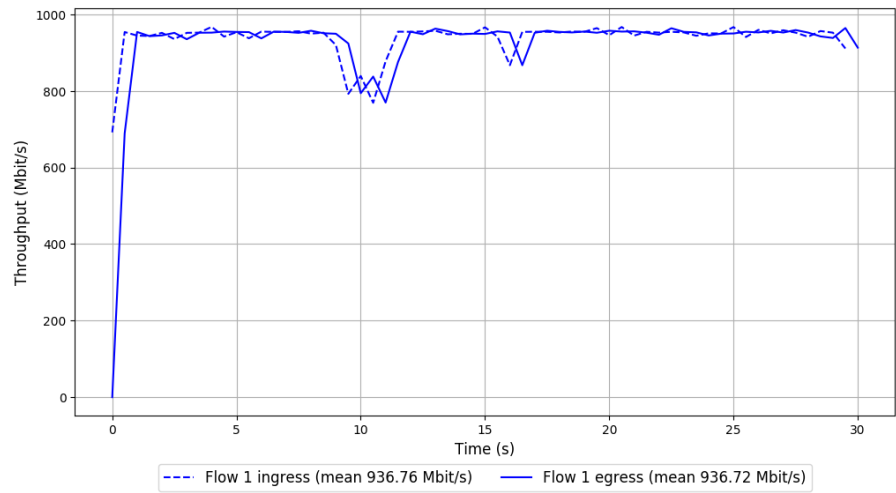
-- Flow 1:

Average throughput: 936.72 Mbit/s

95th percentile per-packet one-way delay: 7.177 ms

Loss rate: 0.01%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-03-19 08:44:24

End at: 2019-03-19 08:44:54

Local clock offset: 0.953 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2019-03-19 11:41:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 927.74 Mbit/s

95th percentile per-packet one-way delay: 4.757 ms

Loss rate: 0.01%

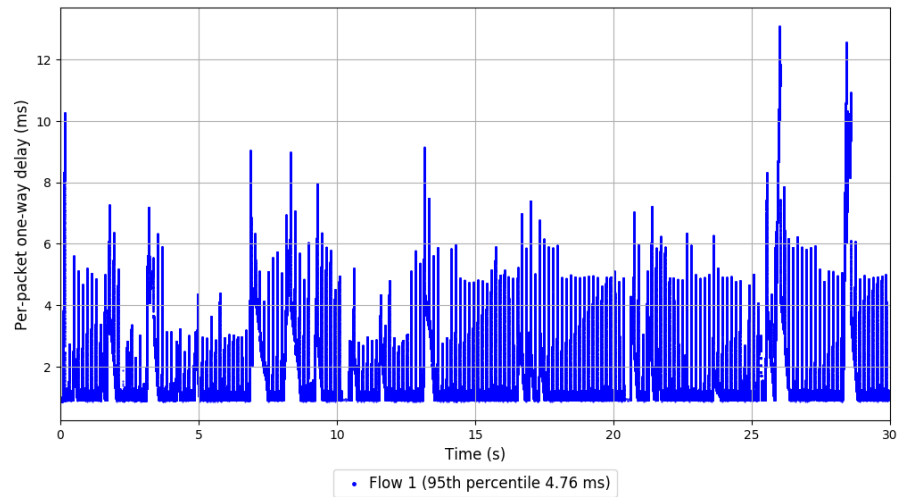
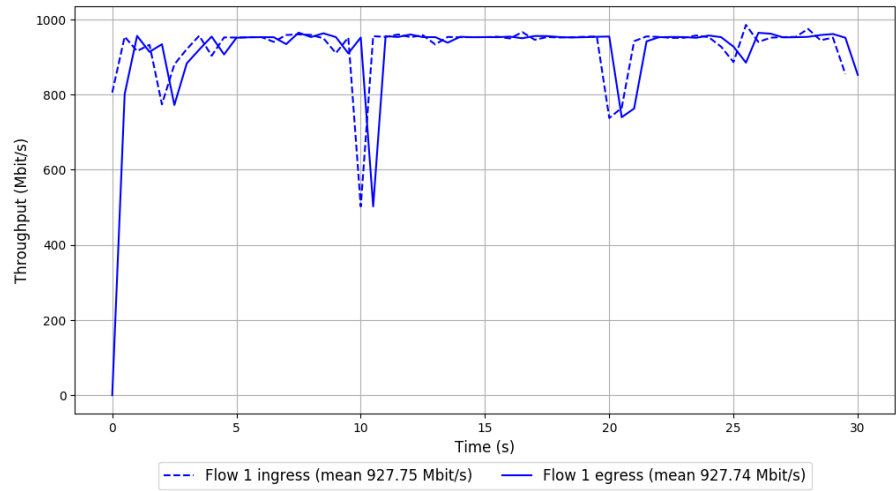
-- Flow 1:

Average throughput: 927.74 Mbit/s

95th percentile per-packet one-way delay: 4.757 ms

Loss rate: 0.01%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-03-19 09:14:08

End at: 2019-03-19 09:14:38

Local clock offset: 0.168 ms

Remote clock offset: 0.549 ms

Below is generated by plot.py at 2019-03-19 11:41:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 926.88 Mbit/s

95th percentile per-packet one-way delay: 5.220 ms

Loss rate: 0.01%

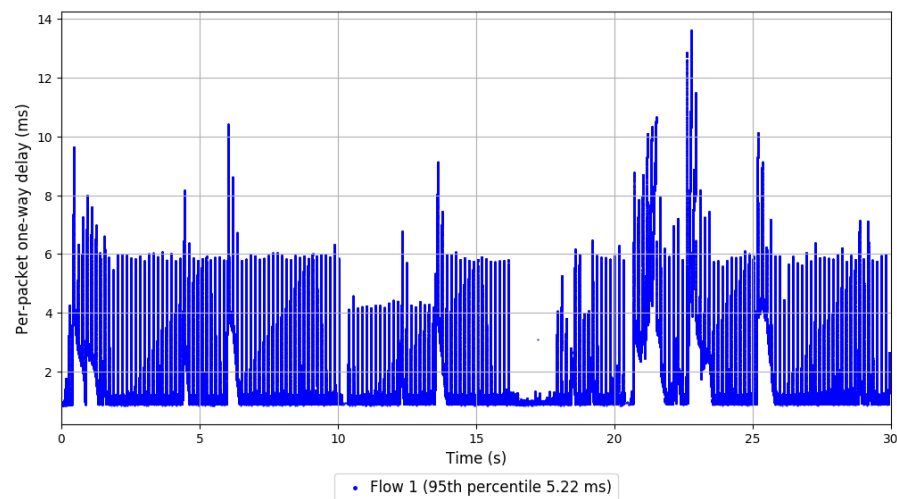
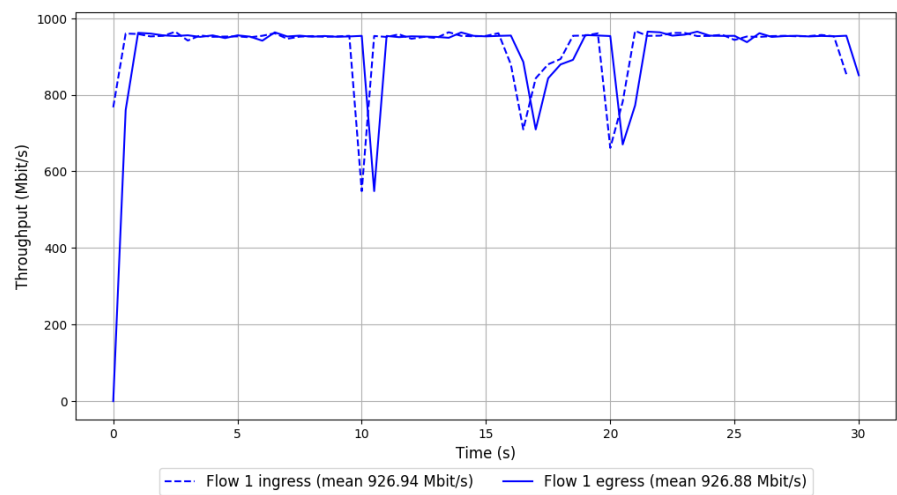
-- Flow 1:

Average throughput: 926.88 Mbit/s

95th percentile per-packet one-way delay: 5.220 ms

Loss rate: 0.01%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-03-19 09:43:57

End at: 2019-03-19 09:44:27

Local clock offset: 0.424 ms

Remote clock offset: 0.389 ms

Below is generated by plot.py at 2019-03-19 11:42:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 926.79 Mbit/s

95th percentile per-packet one-way delay: 4.704 ms

Loss rate: 0.01%

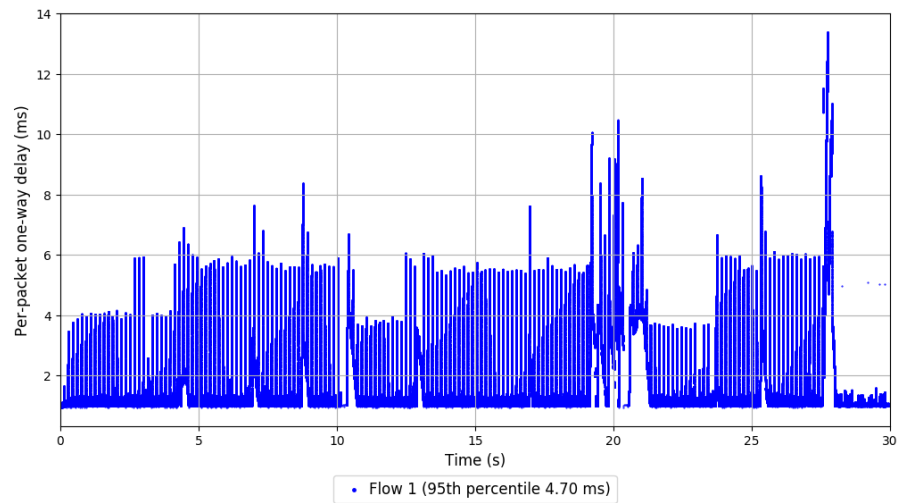
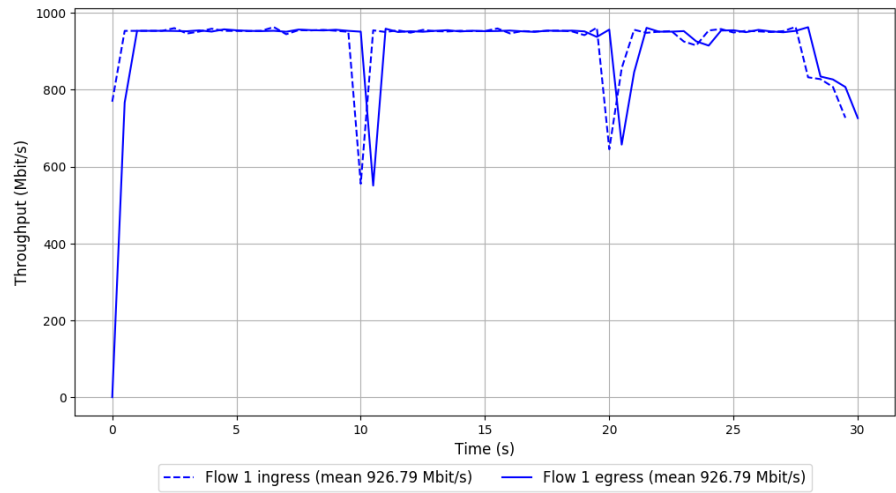
-- Flow 1:

Average throughput: 926.79 Mbit/s

95th percentile per-packet one-way delay: 4.704 ms

Loss rate: 0.01%

Run 3: Report of FillP-Sheep — Data Link

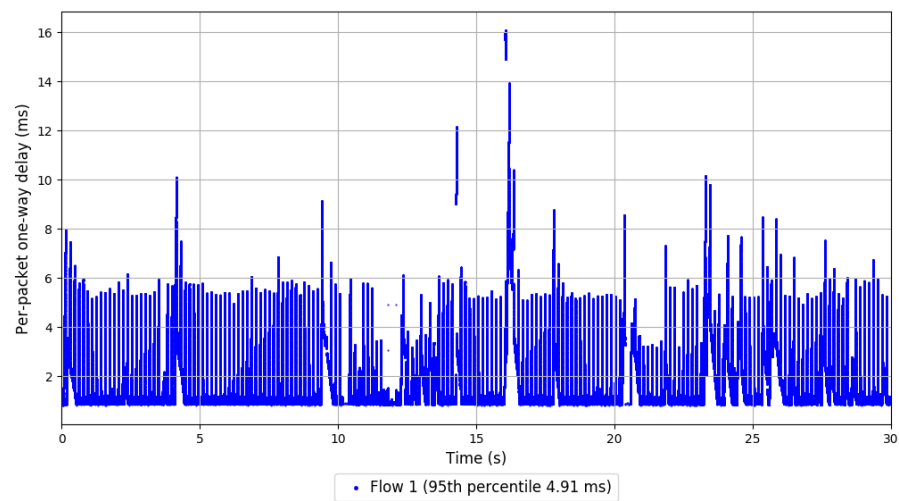
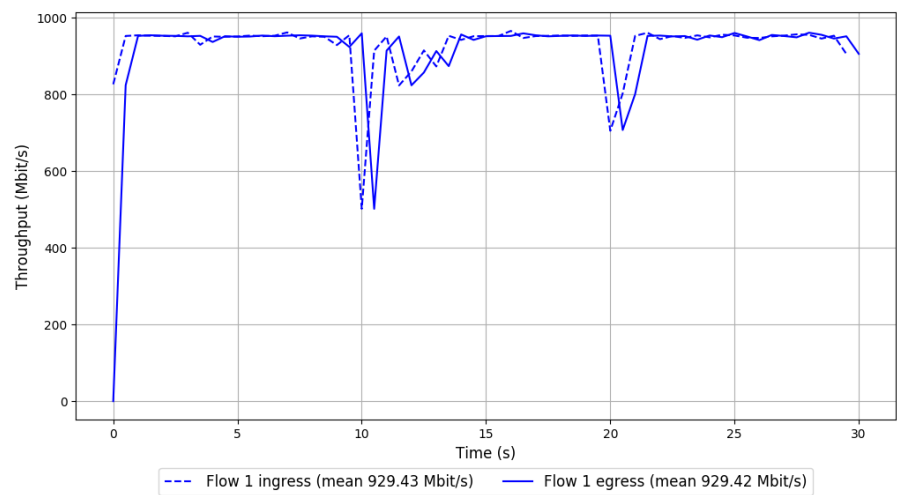


Run 4: Statistics of FillP-Sheep

Start at: 2019-03-19 10:13:43
End at: 2019-03-19 10:14:13
Local clock offset: 1.246 ms
Remote clock offset: 0.06 ms

Below is generated by plot.py at 2019-03-19 11:46:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 929.42 Mbit/s
95th percentile per-packet one-way delay: 4.914 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 929.42 Mbit/s
95th percentile per-packet one-way delay: 4.914 ms
Loss rate: 0.01%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-03-19 10:43:35

End at: 2019-03-19 10:44:05

Local clock offset: 0.224 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2019-03-19 11:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 932.34 Mbit/s

95th percentile per-packet one-way delay: 4.848 ms

Loss rate: 0.01%

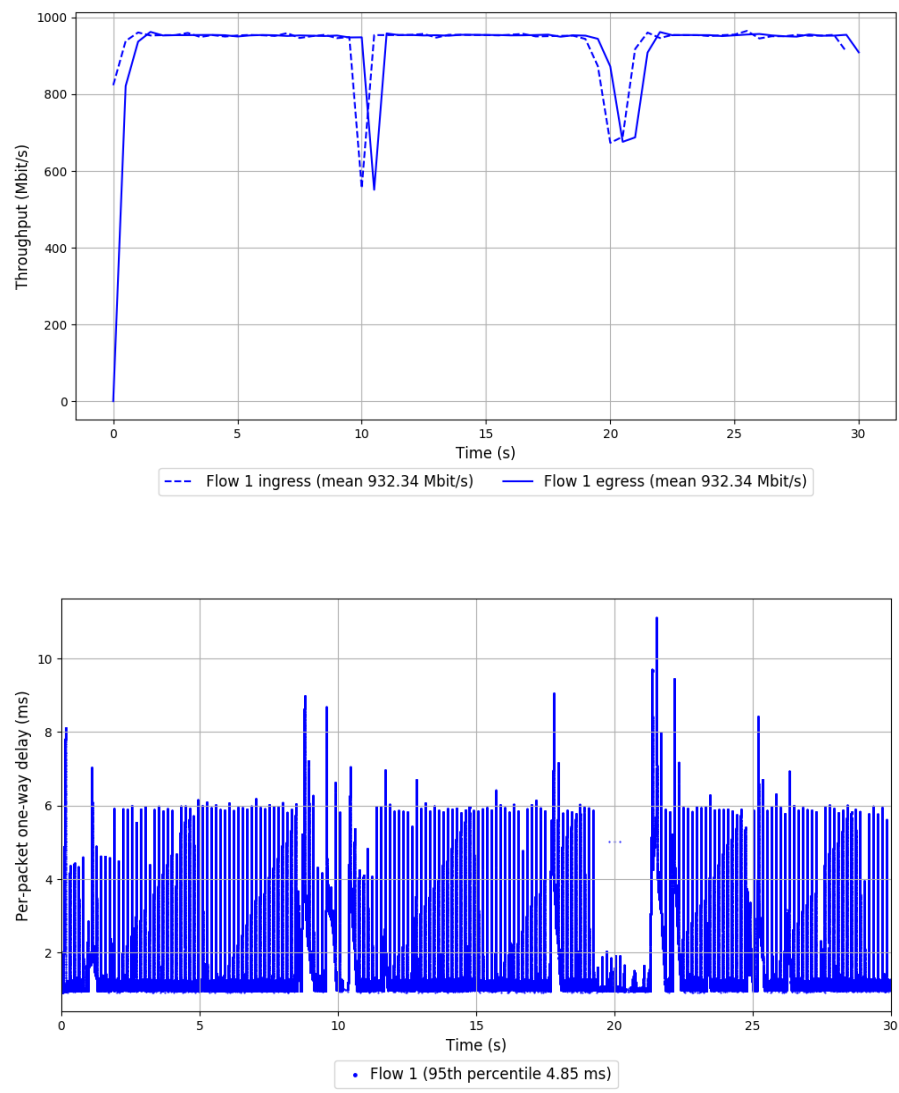
-- Flow 1:

Average throughput: 932.34 Mbit/s

95th percentile per-packet one-way delay: 4.848 ms

Loss rate: 0.01%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-03-19 08:51:37

End at: 2019-03-19 08:52:07

Local clock offset: 0.657 ms

Remote clock offset: 0.225 ms

Below is generated by plot.py at 2019-03-19 11:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.99 Mbit/s

95th percentile per-packet one-way delay: 0.992 ms

Loss rate: 0.00%

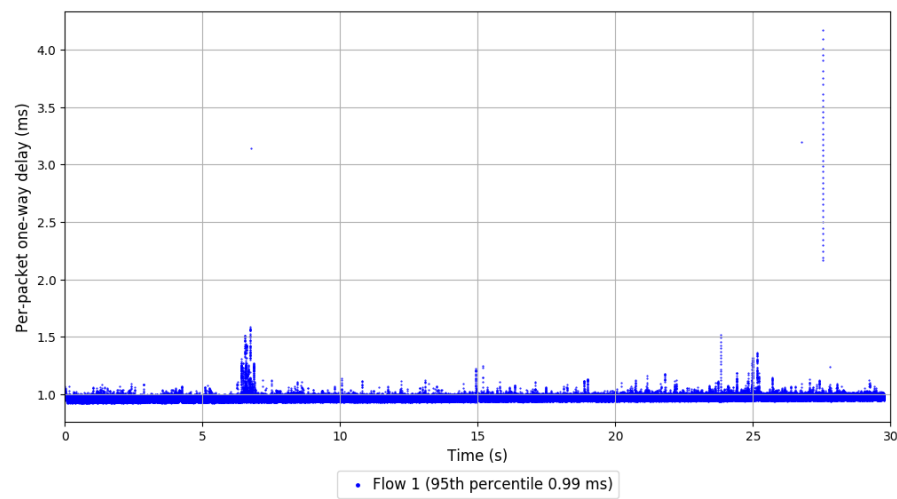
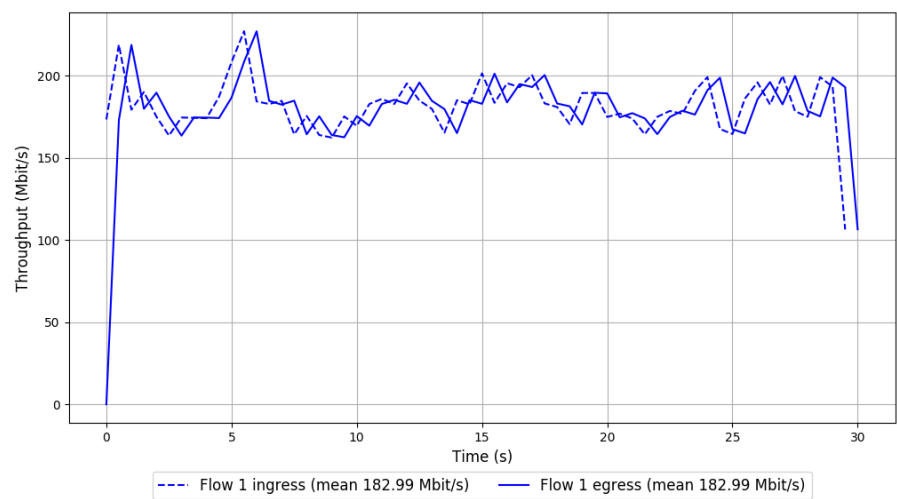
-- Flow 1:

Average throughput: 182.99 Mbit/s

95th percentile per-packet one-way delay: 0.992 ms

Loss rate: 0.00%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-03-19 09:21:25

End at: 2019-03-19 09:21:55

Local clock offset: 0.284 ms

Remote clock offset: 0.76 ms

Below is generated by plot.py at 2019-03-19 11:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.02 Mbit/s

95th percentile per-packet one-way delay: 0.910 ms

Loss rate: 0.01%

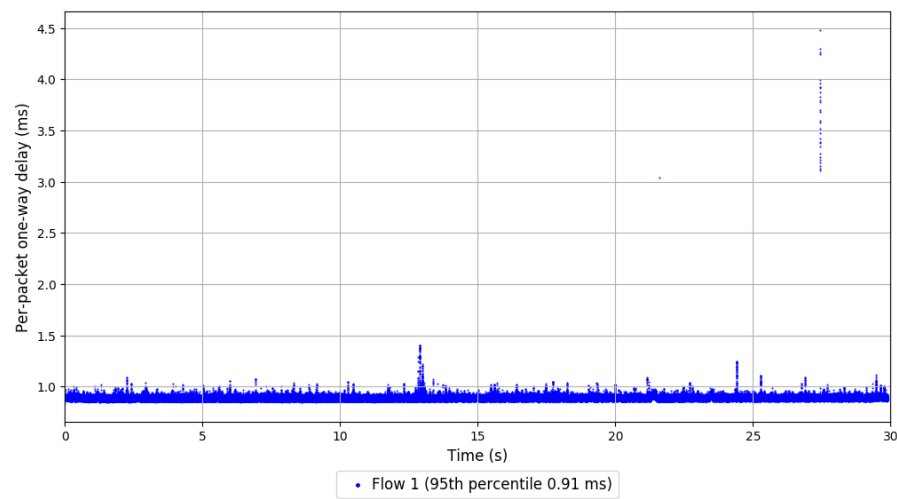
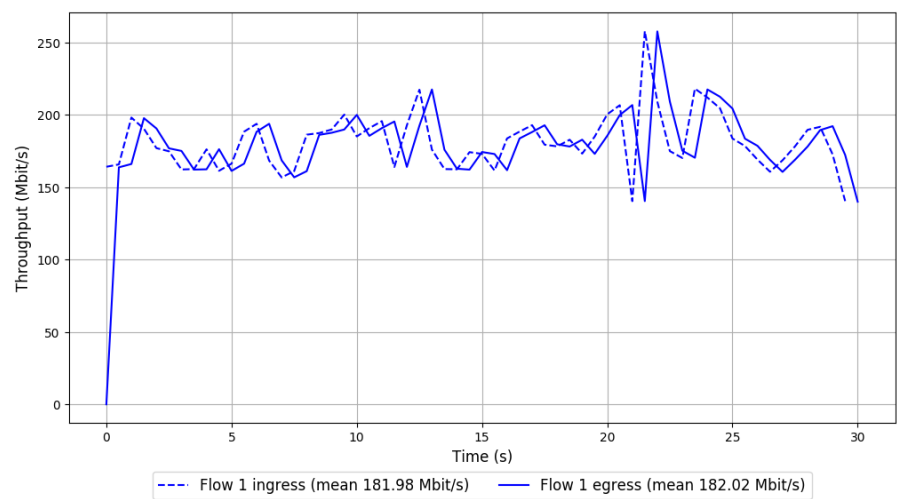
-- Flow 1:

Average throughput: 182.02 Mbit/s

95th percentile per-packet one-way delay: 0.910 ms

Loss rate: 0.01%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-03-19 09:51:17

End at: 2019-03-19 09:51:47

Local clock offset: 0.752 ms

Remote clock offset: 0.545 ms

Below is generated by plot.py at 2019-03-19 11:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.96 Mbit/s

95th percentile per-packet one-way delay: 0.926 ms

Loss rate: 0.00%

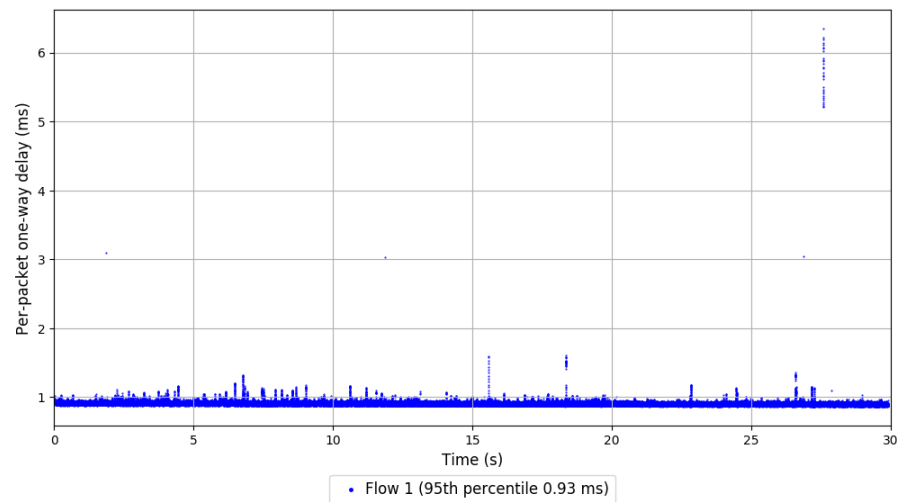
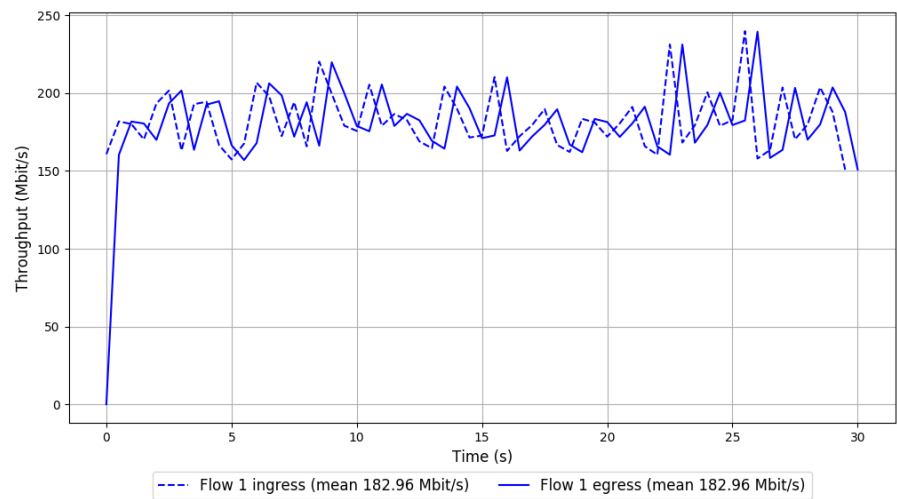
-- Flow 1:

Average throughput: 182.96 Mbit/s

95th percentile per-packet one-way delay: 0.926 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link

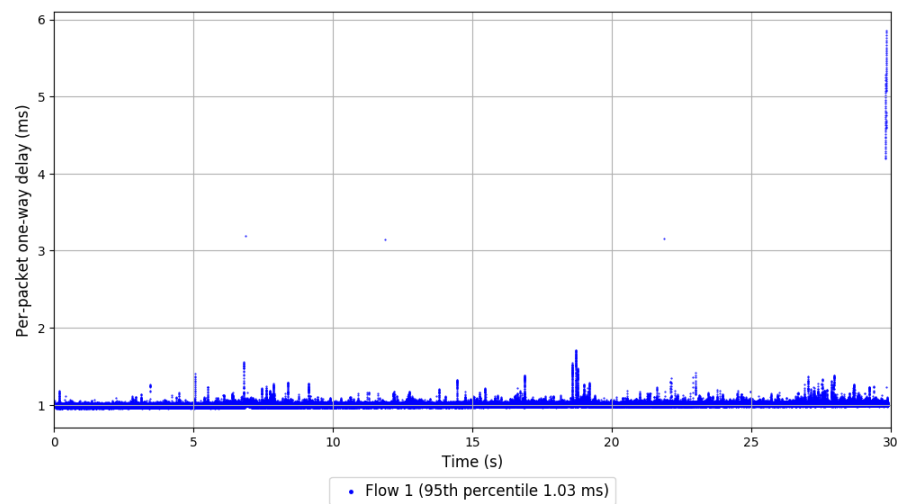
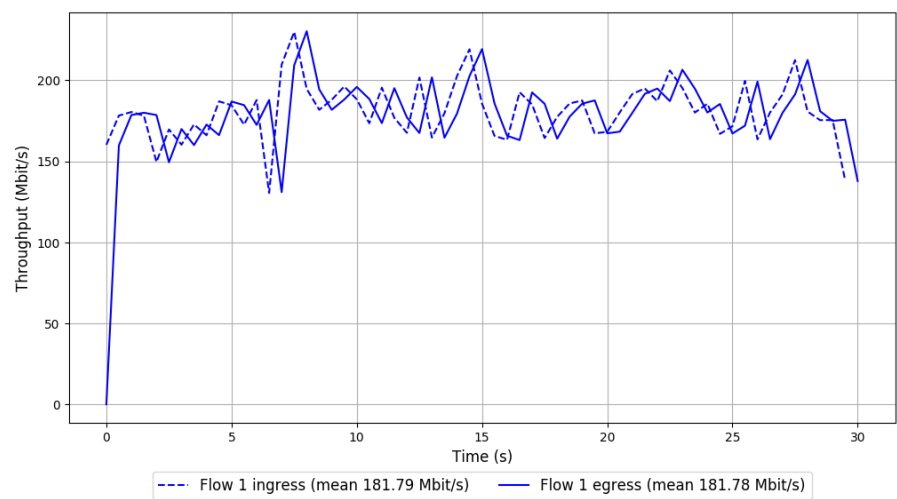


Run 4: Statistics of Indigo

Start at: 2019-03-19 10:21:07
End at: 2019-03-19 10:21:37
Local clock offset: 0.847 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2019-03-19 11:52:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 181.78 Mbit/s
95th percentile per-packet one-way delay: 1.028 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 181.78 Mbit/s
95th percentile per-packet one-way delay: 1.028 ms
Loss rate: 0.01%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-03-19 10:50:55

End at: 2019-03-19 10:51:25

Local clock offset: 0.406 ms

Remote clock offset: 0.135 ms

Below is generated by plot.py at 2019-03-19 11:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.61 Mbit/s

95th percentile per-packet one-way delay: 1.017 ms

Loss rate: 0.01%

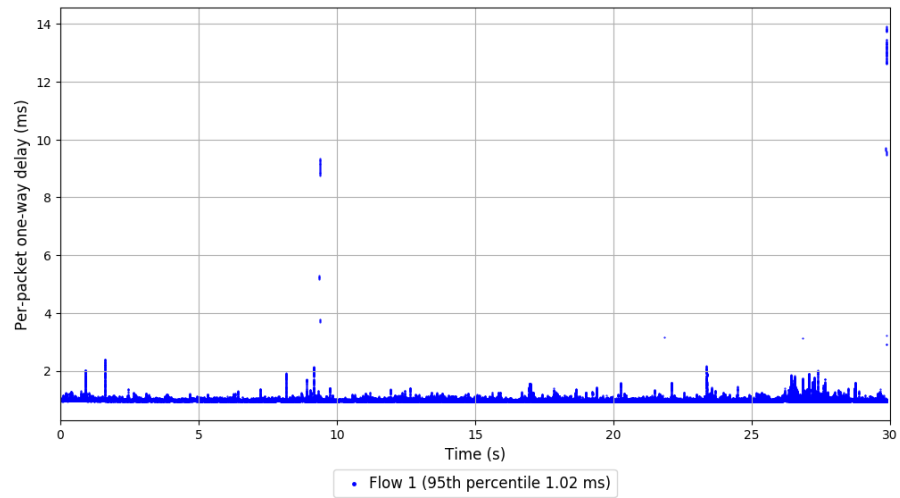
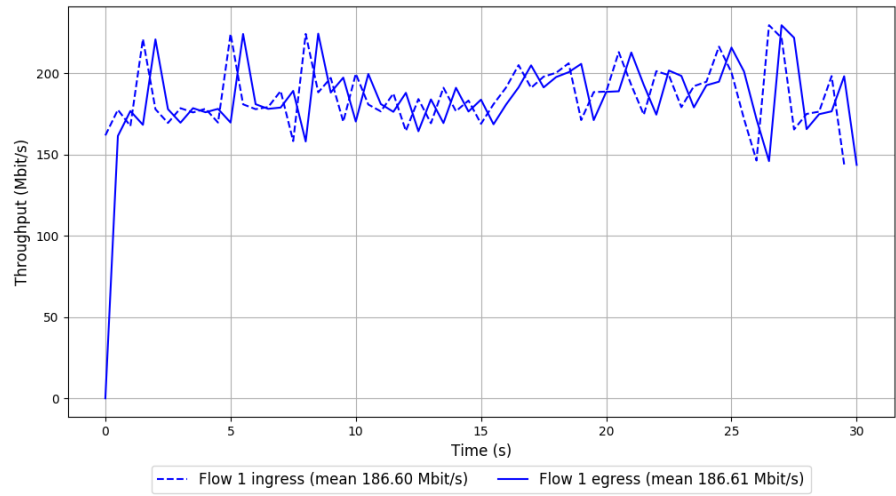
-- Flow 1:

Average throughput: 186.61 Mbit/s

95th percentile per-packet one-way delay: 1.017 ms

Loss rate: 0.01%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-03-19 09:02:57

End at: 2019-03-19 09:03:27

Local clock offset: 0.322 ms

Remote clock offset: 0.265 ms

Below is generated by plot.py at 2019-03-19 11:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 259.96 Mbit/s

95th percentile per-packet one-way delay: 1.076 ms

Loss rate: 0.00%

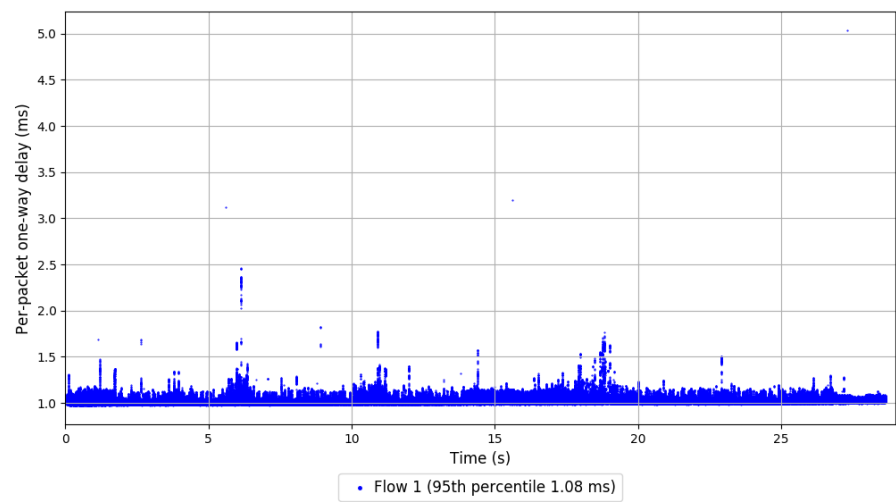
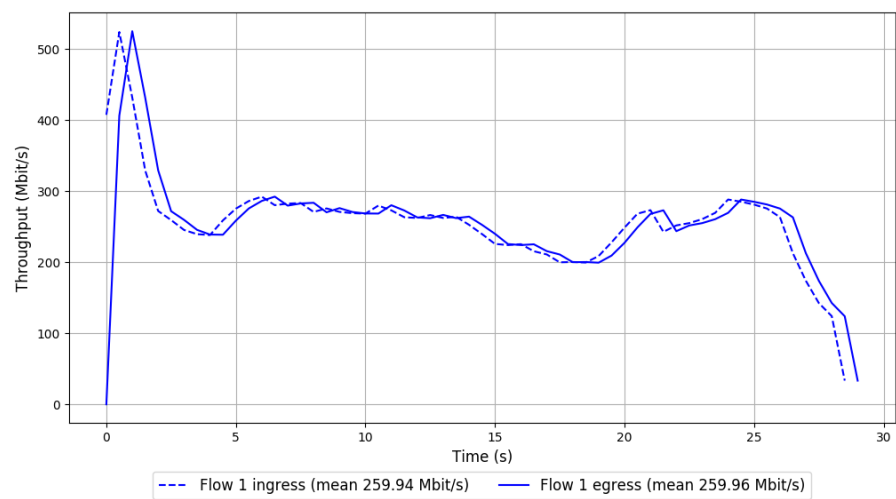
-- Flow 1:

Average throughput: 259.96 Mbit/s

95th percentile per-packet one-way delay: 1.076 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-03-19 09:32:50

End at: 2019-03-19 09:33:20

Local clock offset: 0.399 ms

Remote clock offset: 0.471 ms

Below is generated by plot.py at 2019-03-19 11:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 260.68 Mbit/s

95th percentile per-packet one-way delay: 1.014 ms

Loss rate: 0.00%

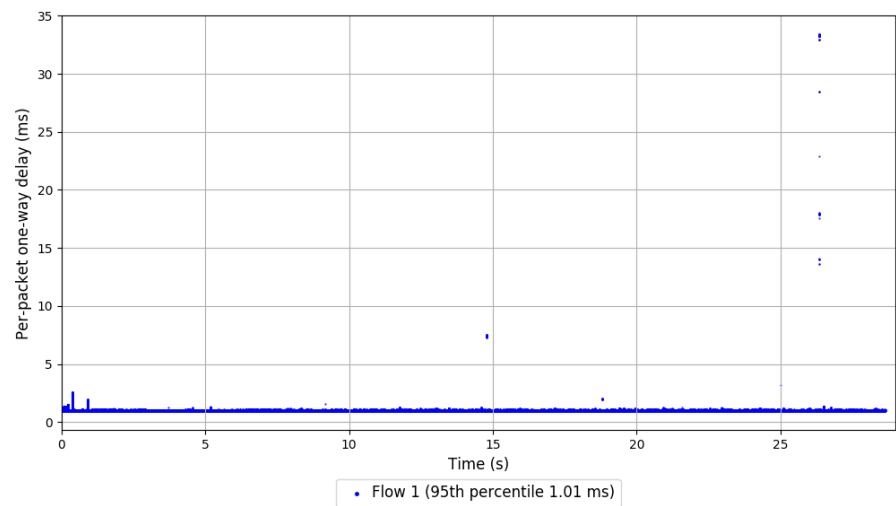
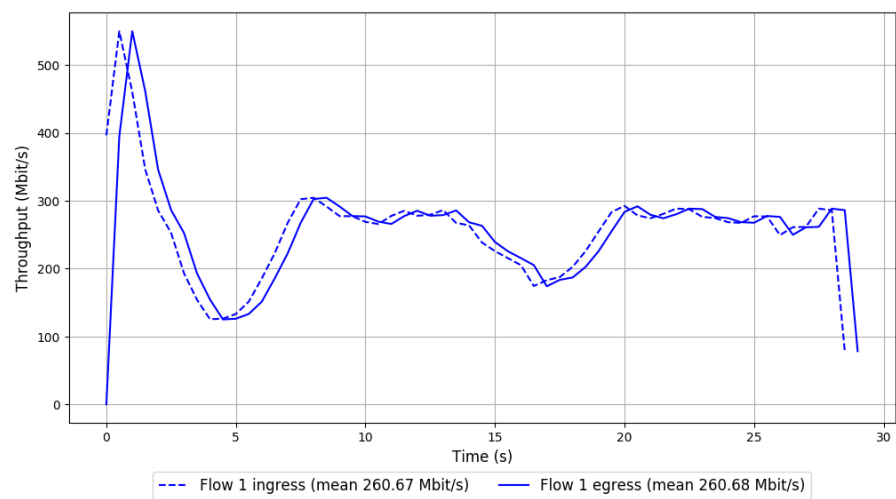
-- Flow 1:

Average throughput: 260.68 Mbit/s

95th percentile per-packet one-way delay: 1.014 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-03-19 10:02:35

End at: 2019-03-19 10:03:05

Local clock offset: 1.077 ms

Remote clock offset: 0.325 ms

Below is generated by plot.py at 2019-03-19 11:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 284.49 Mbit/s

95th percentile per-packet one-way delay: 1.074 ms

Loss rate: 0.00%

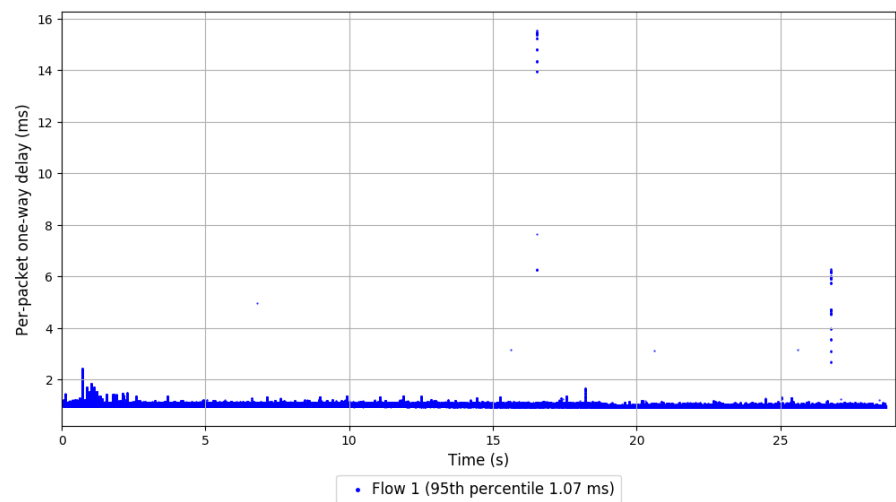
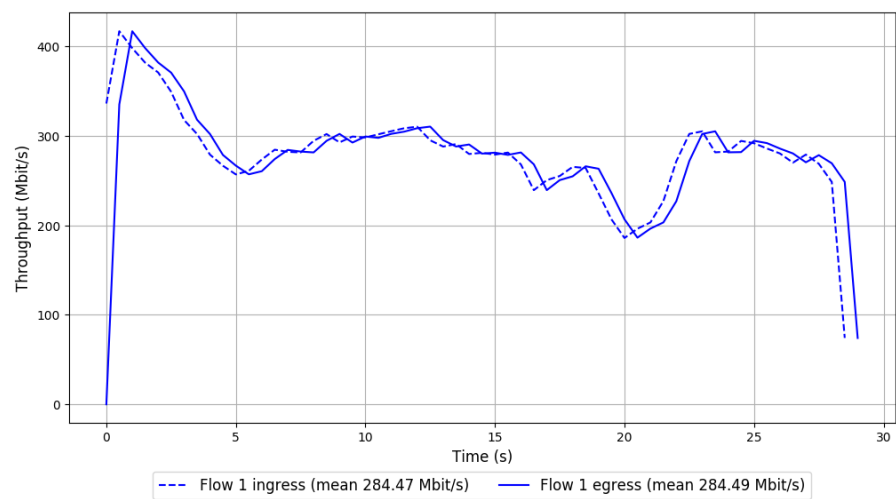
-- Flow 1:

Average throughput: 284.49 Mbit/s

95th percentile per-packet one-way delay: 1.074 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesC3 — Data Link

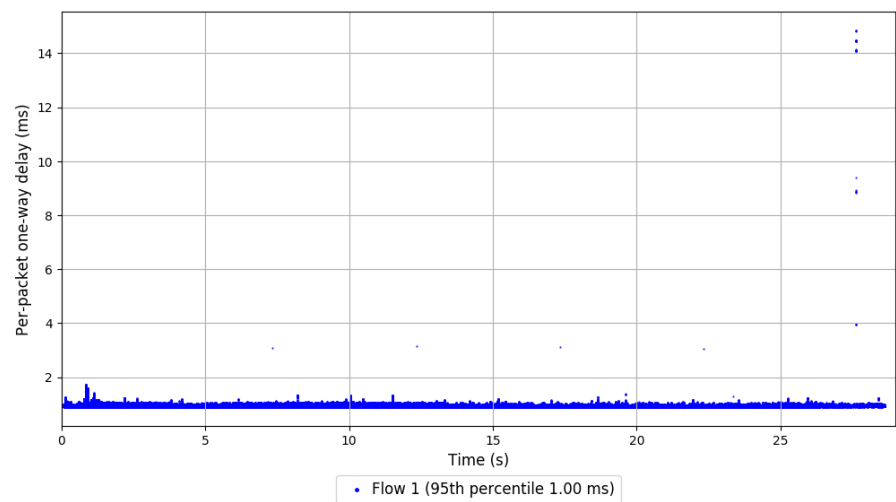
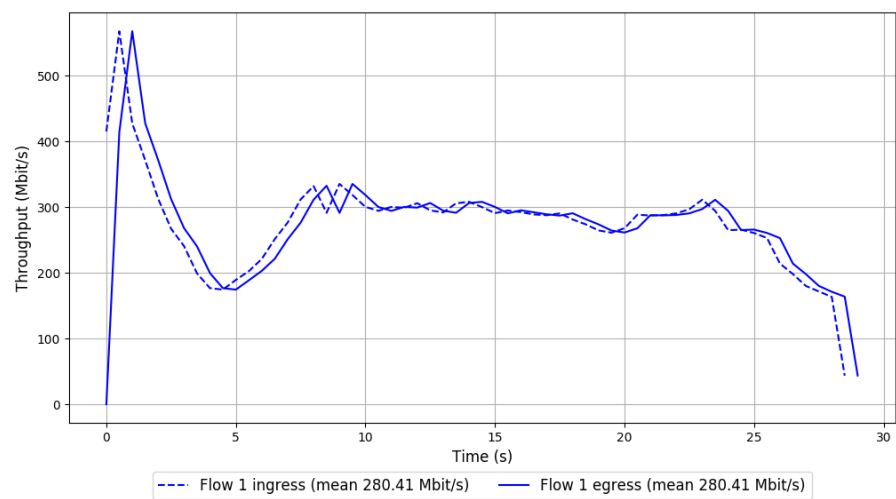


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-03-19 10:32:25
End at: 2019-03-19 10:32:55
Local clock offset: 0.397 ms
Remote clock offset: -0.039 ms

Below is generated by plot.py at 2019-03-19 11:52:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 280.41 Mbit/s
95th percentile per-packet one-way delay: 0.996 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 280.41 Mbit/s
95th percentile per-packet one-way delay: 0.996 ms
Loss rate: 0.00%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-03-19 11:02:02

End at: 2019-03-19 11:02:32

Local clock offset: 0.599 ms

Remote clock offset: 0.208 ms

Below is generated by plot.py at 2019-03-19 11:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 271.70 Mbit/s

95th percentile per-packet one-way delay: 1.044 ms

Loss rate: 0.00%

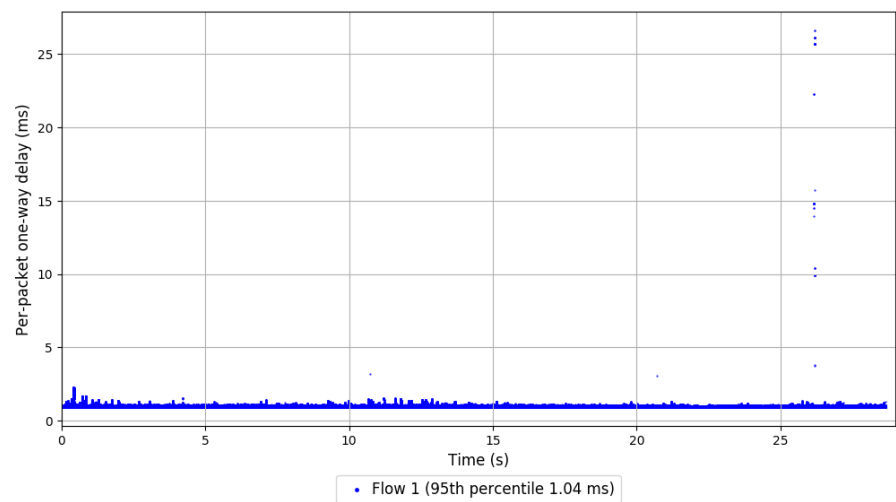
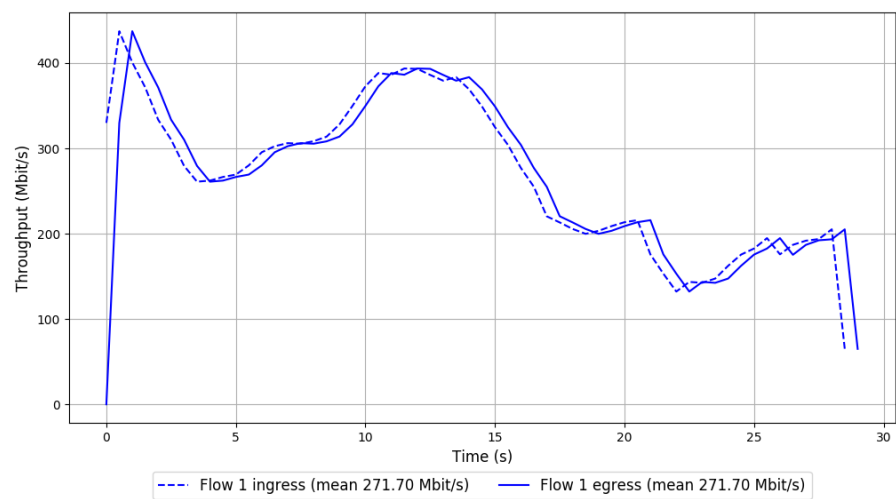
-- Flow 1:

Average throughput: 271.70 Mbit/s

95th percentile per-packet one-way delay: 1.044 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-03-19 08:37:34

End at: 2019-03-19 08:38:04

Local clock offset: 0.94 ms

Remote clock offset: -0.066 ms

Below is generated by plot.py at 2019-03-19 11:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.07 Mbit/s

95th percentile per-packet one-way delay: 0.991 ms

Loss rate: 0.00%

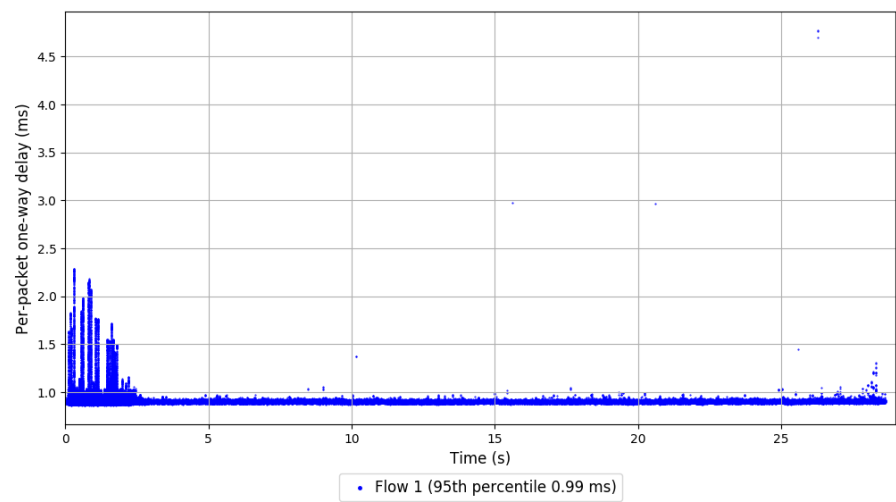
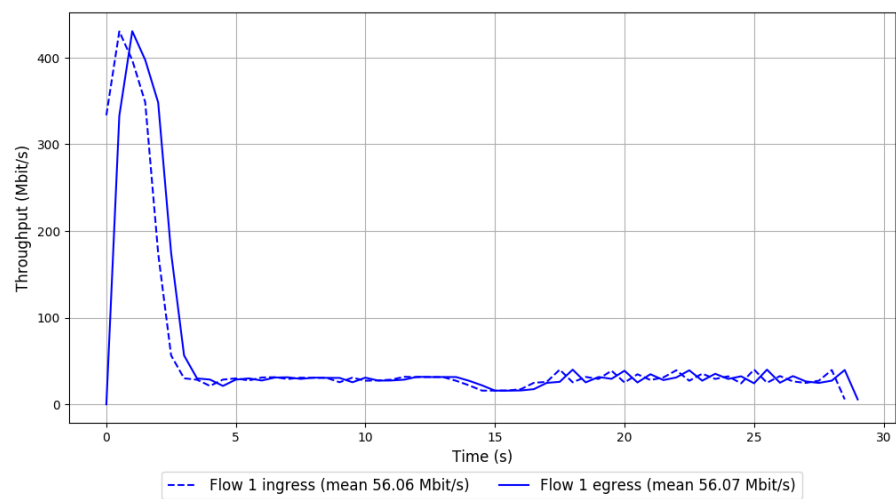
-- Flow 1:

Average throughput: 56.07 Mbit/s

95th percentile per-packet one-way delay: 0.991 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-03-19 09:07:16

End at: 2019-03-19 09:07:46

Local clock offset: 0.254 ms

Remote clock offset: 0.385 ms

Below is generated by plot.py at 2019-03-19 11:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.63 Mbit/s

95th percentile per-packet one-way delay: 1.065 ms

Loss rate: 0.00%

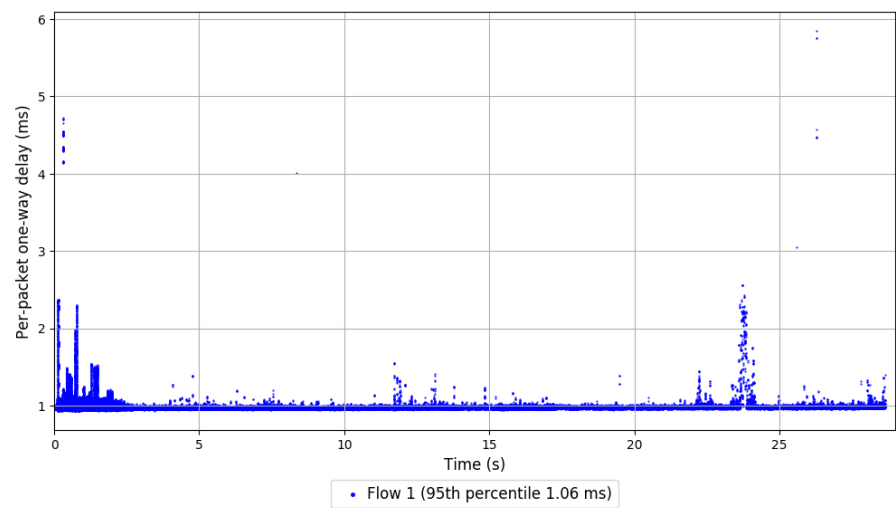
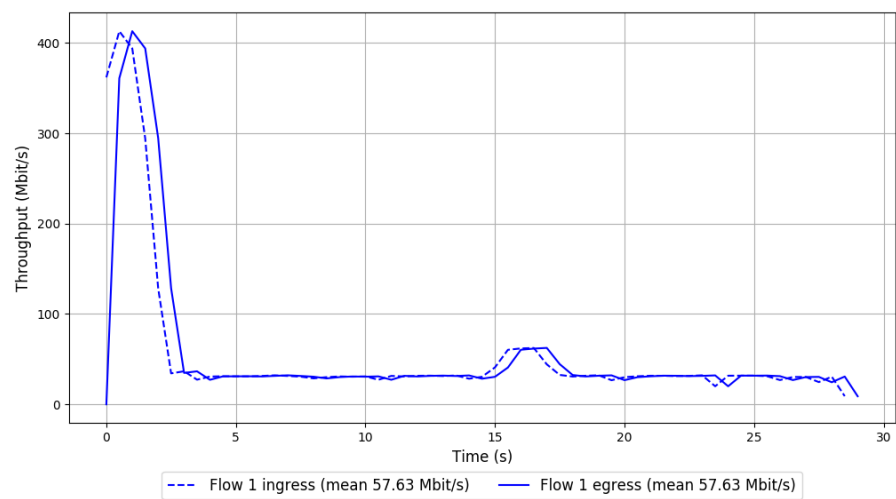
-- Flow 1:

Average throughput: 57.63 Mbit/s

95th percentile per-packet one-way delay: 1.065 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-03-19 09:37:08

End at: 2019-03-19 09:37:38

Local clock offset: 0.401 ms

Remote clock offset: 0.54 ms

Below is generated by plot.py at 2019-03-19 11:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.49 Mbit/s

95th percentile per-packet one-way delay: 0.962 ms

Loss rate: 0.00%

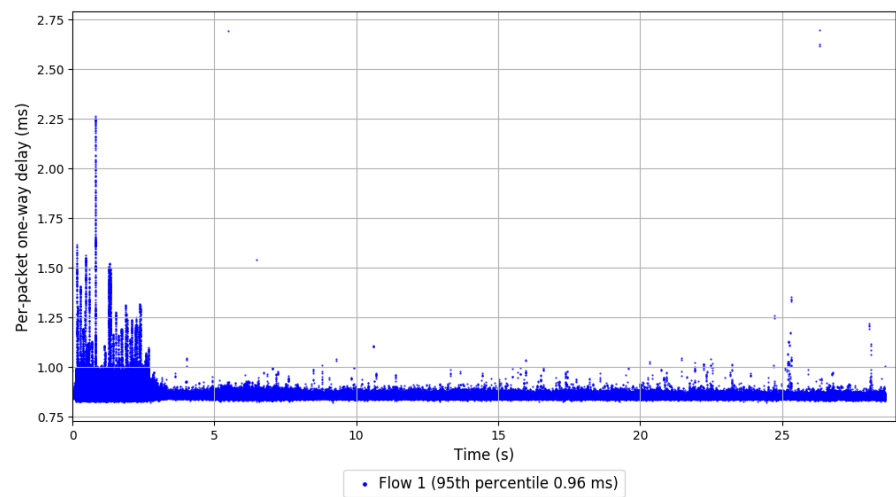
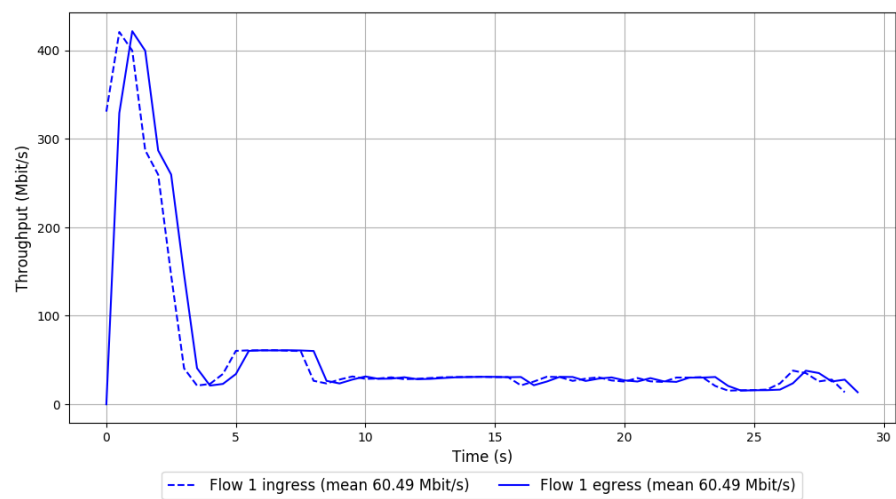
-- Flow 1:

Average throughput: 60.49 Mbit/s

95th percentile per-packet one-way delay: 0.962 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-03-19 10:06:52

End at: 2019-03-19 10:07:22

Local clock offset: 1.145 ms

Remote clock offset: 0.165 ms

Below is generated by plot.py at 2019-03-19 11:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.23 Mbit/s

95th percentile per-packet one-way delay: 1.004 ms

Loss rate: 0.01%

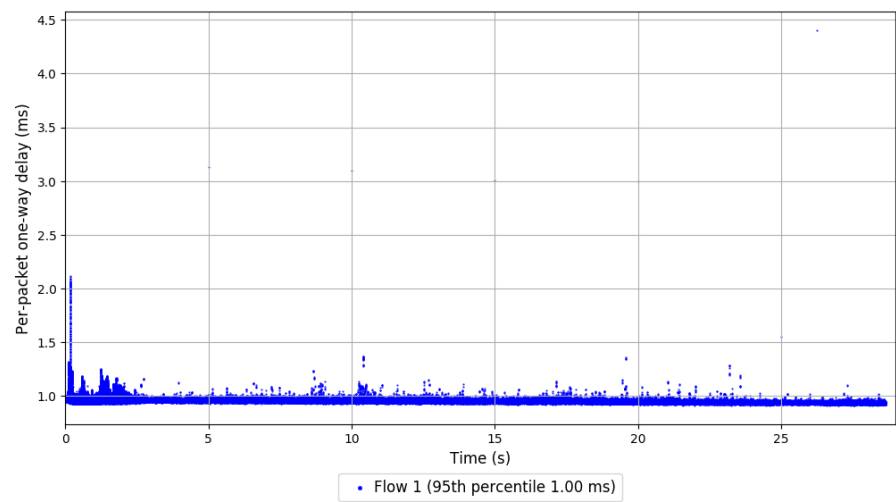
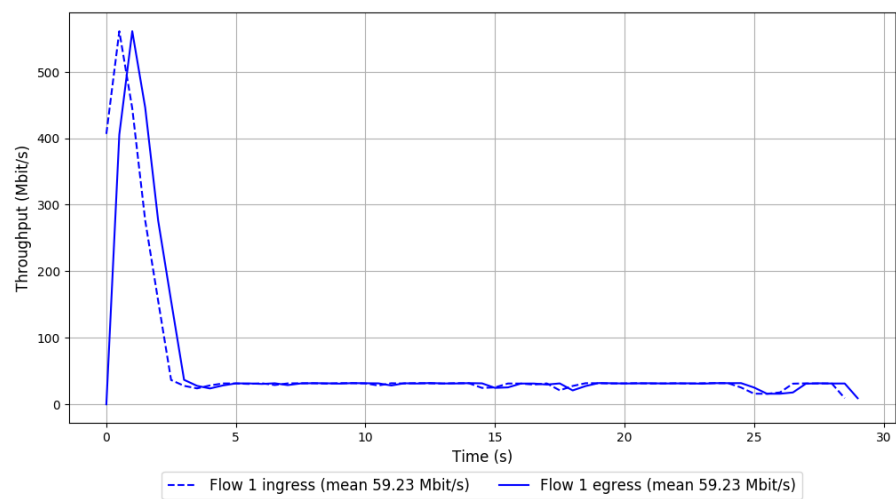
-- Flow 1:

Average throughput: 59.23 Mbit/s

95th percentile per-packet one-way delay: 1.004 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-03-19 10:36:43

End at: 2019-03-19 10:37:13

Local clock offset: 0.327 ms

Remote clock offset: 0.062 ms

Below is generated by plot.py at 2019-03-19 11:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.68 Mbit/s

95th percentile per-packet one-way delay: 1.003 ms

Loss rate: 0.00%

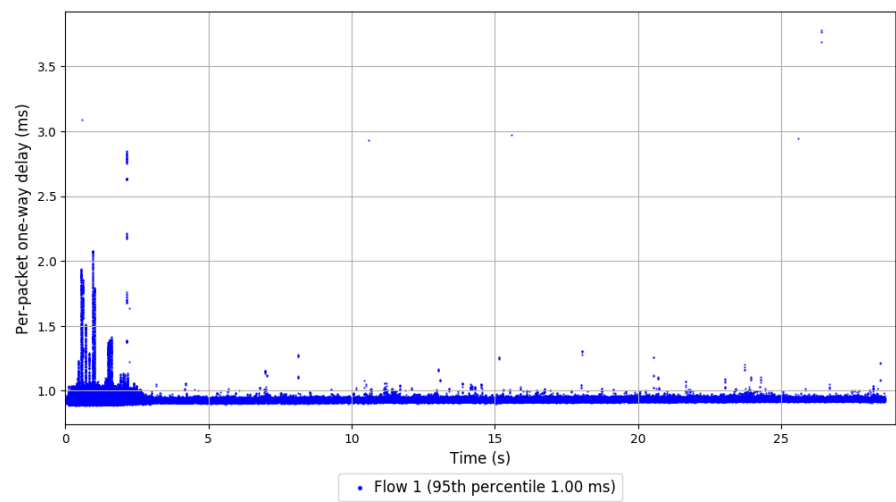
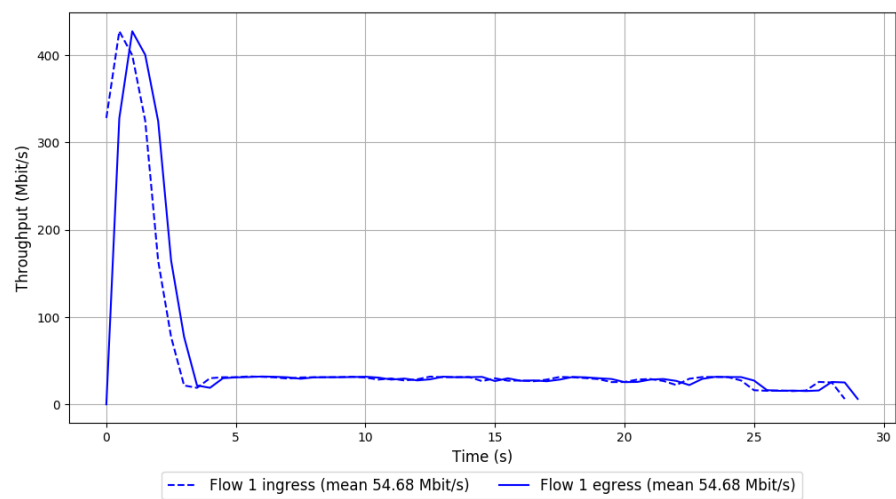
-- Flow 1:

Average throughput: 54.68 Mbit/s

95th percentile per-packet one-way delay: 1.003 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-03-19 08:43:08

End at: 2019-03-19 08:43:38

Local clock offset: 0.945 ms

Remote clock offset: -0.061 ms

Below is generated by plot.py at 2019-03-19 11:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.90 Mbit/s

95th percentile per-packet one-way delay: 1.008 ms

Loss rate: 0.00%

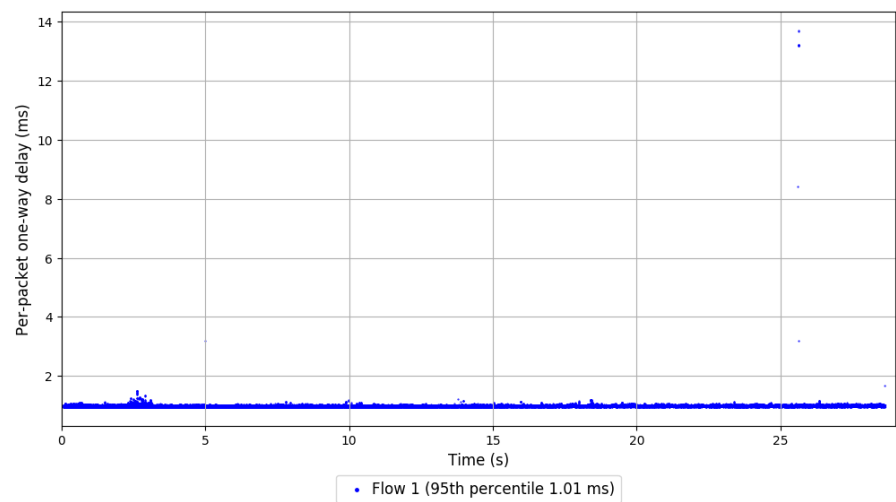
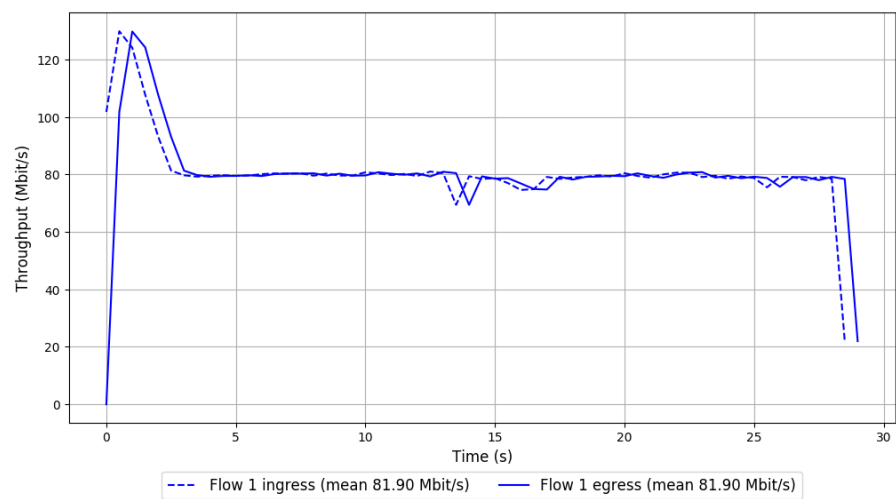
-- Flow 1:

Average throughput: 81.90 Mbit/s

95th percentile per-packet one-way delay: 1.008 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-03-19 09:12:53

End at: 2019-03-19 09:13:23

Local clock offset: 0.173 ms

Remote clock offset: 0.448 ms

Below is generated by plot.py at 2019-03-19 11:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.72 Mbit/s

95th percentile per-packet one-way delay: 1.045 ms

Loss rate: 0.00%

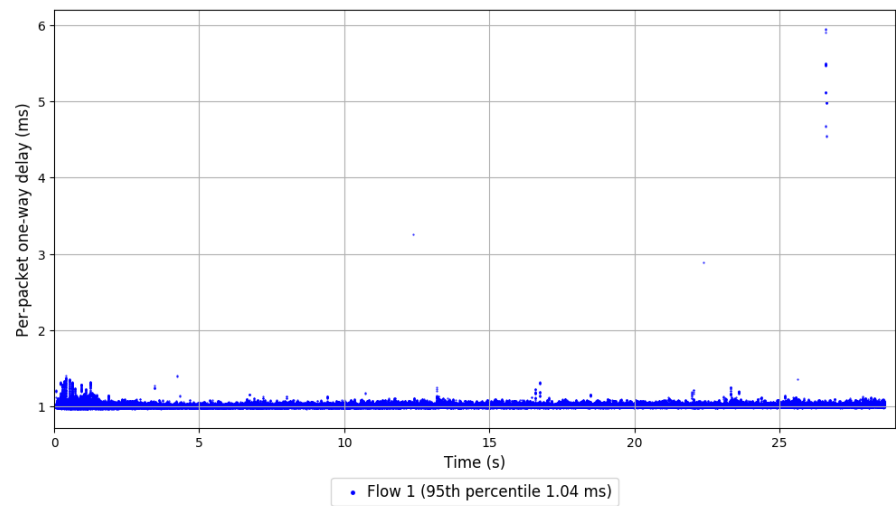
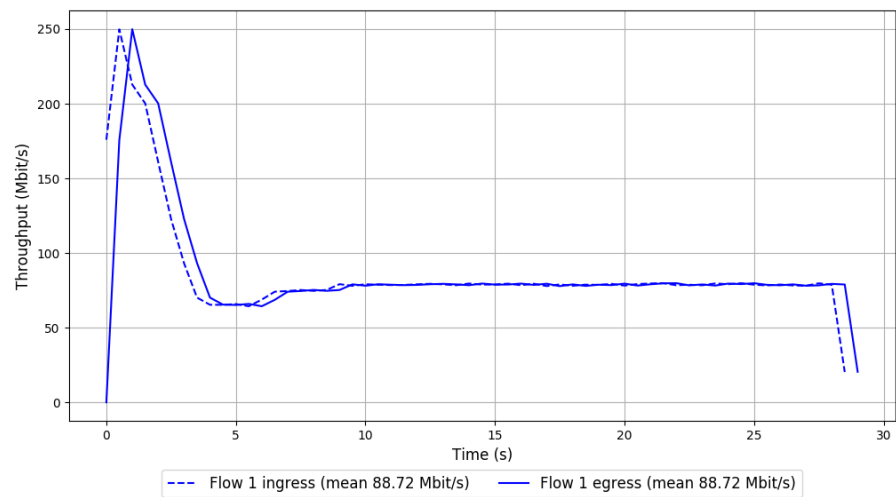
-- Flow 1:

Average throughput: 88.72 Mbit/s

95th percentile per-packet one-way delay: 1.045 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-03-19 09:42:41

End at: 2019-03-19 09:43:11

Local clock offset: 0.416 ms

Remote clock offset: 0.406 ms

Below is generated by plot.py at 2019-03-19 11:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.11 Mbit/s

95th percentile per-packet one-way delay: 1.019 ms

Loss rate: 0.00%

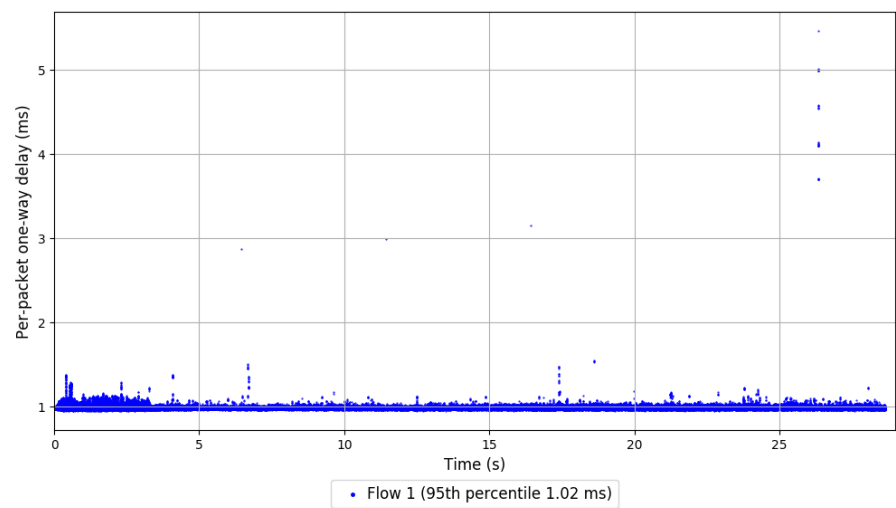
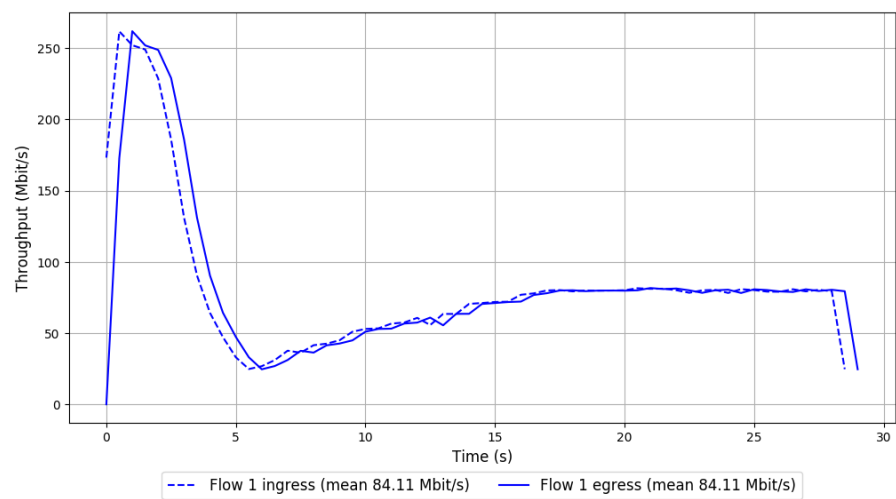
-- Flow 1:

Average throughput: 84.11 Mbit/s

95th percentile per-packet one-way delay: 1.019 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-03-19 10:12:27

End at: 2019-03-19 10:12:57

Local clock offset: 1.227 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2019-03-19 11:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.35 Mbit/s

95th percentile per-packet one-way delay: 1.028 ms

Loss rate: 0.00%

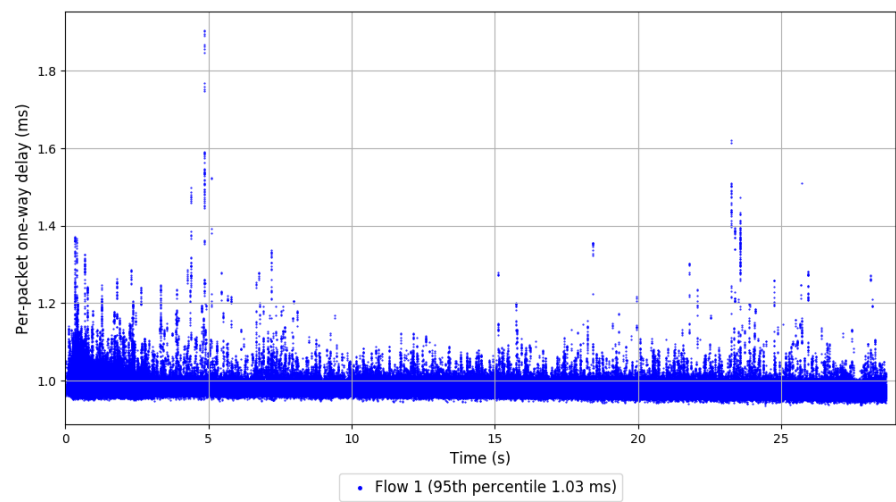
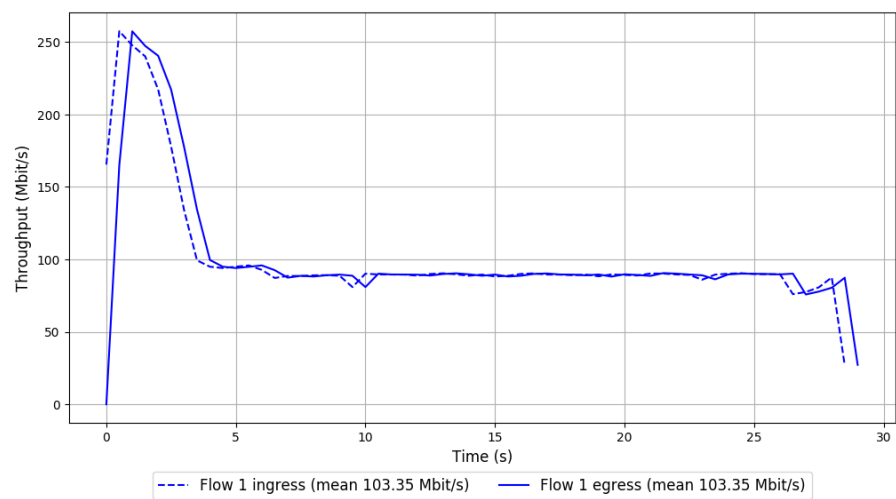
-- Flow 1:

Average throughput: 103.35 Mbit/s

95th percentile per-packet one-way delay: 1.028 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-03-19 10:42:19

End at: 2019-03-19 10:42:49

Local clock offset: 0.24 ms

Remote clock offset: 0.109 ms

Below is generated by plot.py at 2019-03-19 11:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 108.50 Mbit/s

95th percentile per-packet one-way delay: 0.985 ms

Loss rate: 0.01%

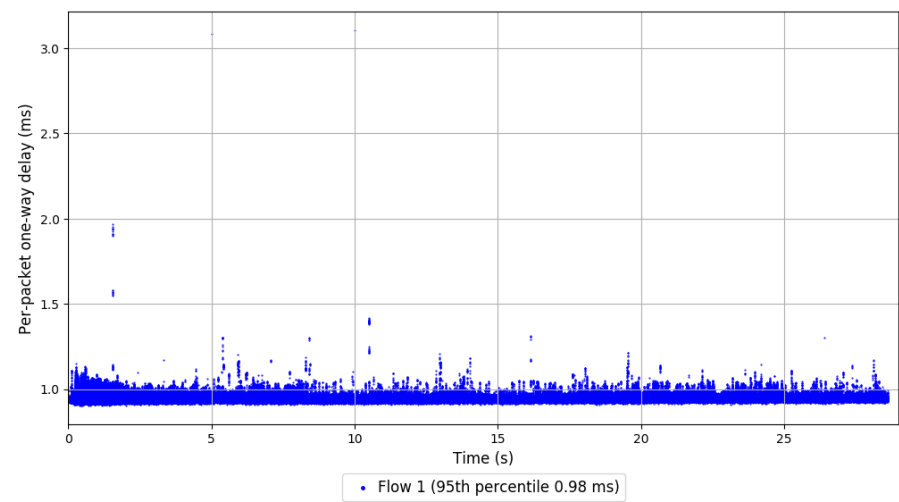
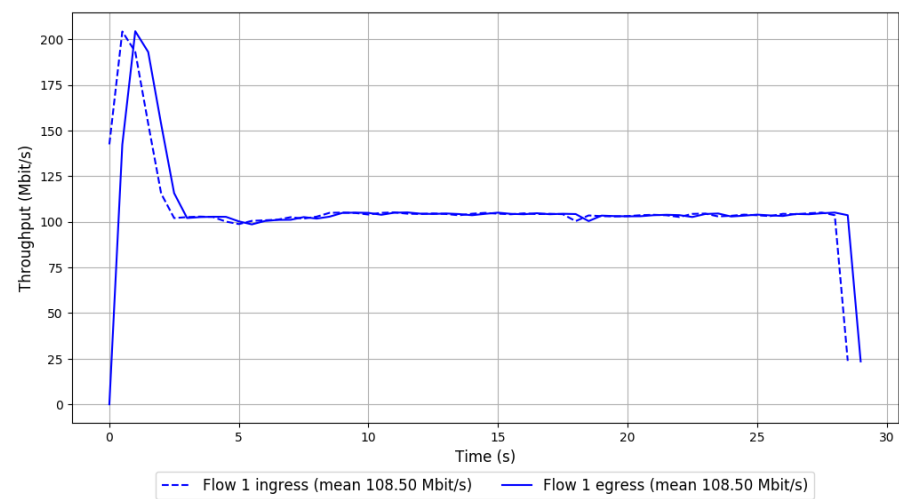
-- Flow 1:

Average throughput: 108.50 Mbit/s

95th percentile per-packet one-way delay: 0.985 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-03-19 08:50:16

End at: 2019-03-19 08:50:46

Local clock offset: 0.705 ms

Remote clock offset: 0.092 ms

Below is generated by plot.py at 2019-03-19 11:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 259.65 Mbit/s

95th percentile per-packet one-way delay: 1.122 ms

Loss rate: 0.01%

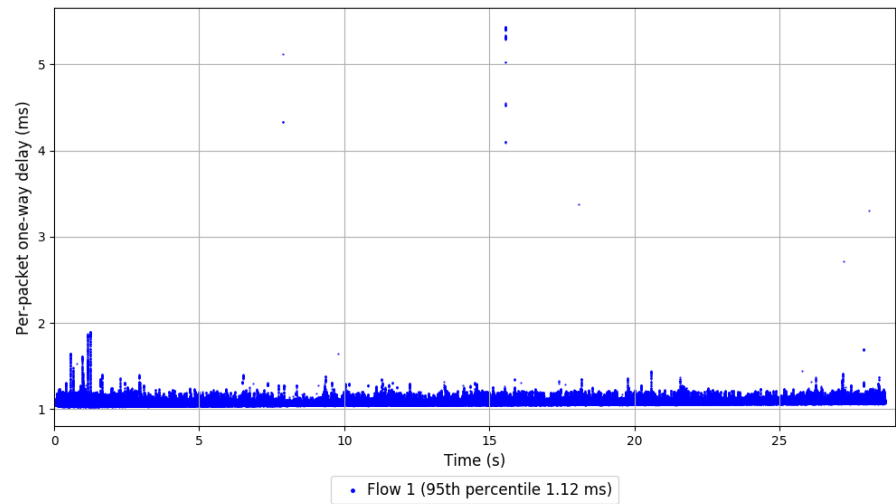
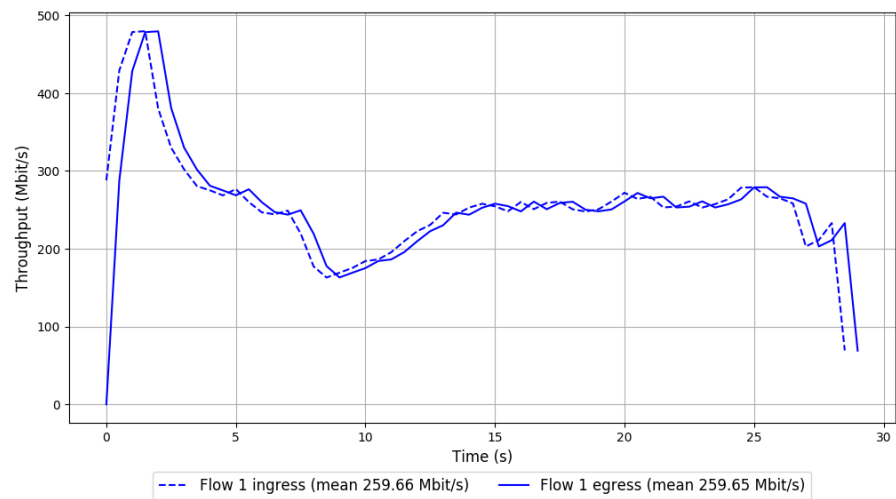
-- Flow 1:

Average throughput: 259.65 Mbit/s

95th percentile per-packet one-way delay: 1.122 ms

Loss rate: 0.01%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-03-19 09:20:04

End at: 2019-03-19 09:20:34

Local clock offset: 0.245 ms

Remote clock offset: 0.674 ms

Below is generated by plot.py at 2019-03-19 11:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 251.75 Mbit/s

95th percentile per-packet one-way delay: 0.951 ms

Loss rate: 0.01%

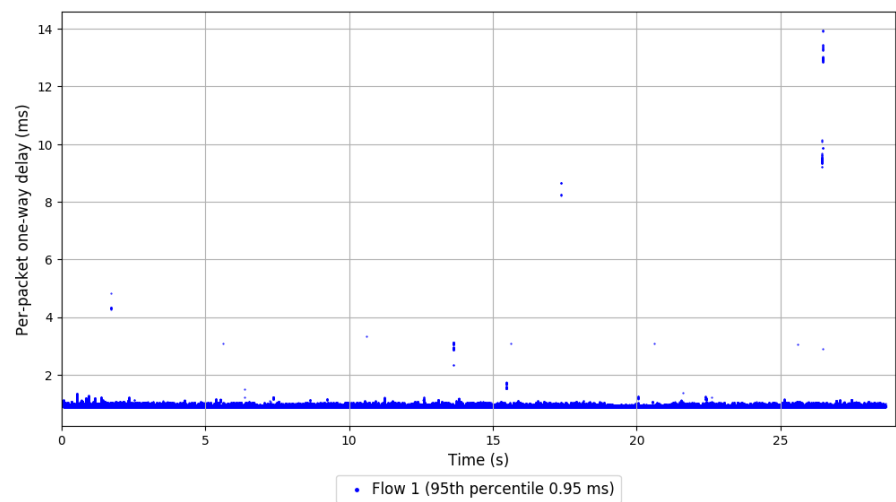
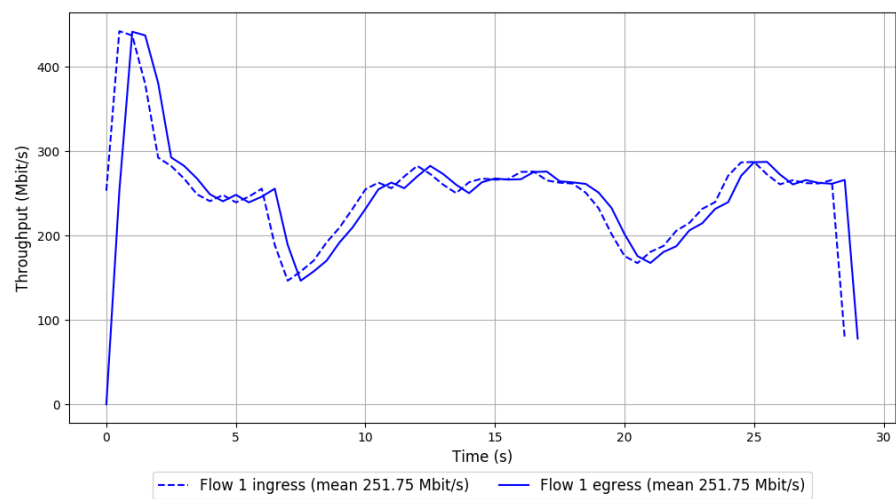
-- Flow 1:

Average throughput: 251.75 Mbit/s

95th percentile per-packet one-way delay: 0.951 ms

Loss rate: 0.01%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-03-19 09:49:56

End at: 2019-03-19 09:50:26

Local clock offset: 0.673 ms

Remote clock offset: 0.491 ms

Below is generated by plot.py at 2019-03-19 11:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 264.00 Mbit/s

95th percentile per-packet one-way delay: 1.018 ms

Loss rate: 0.01%

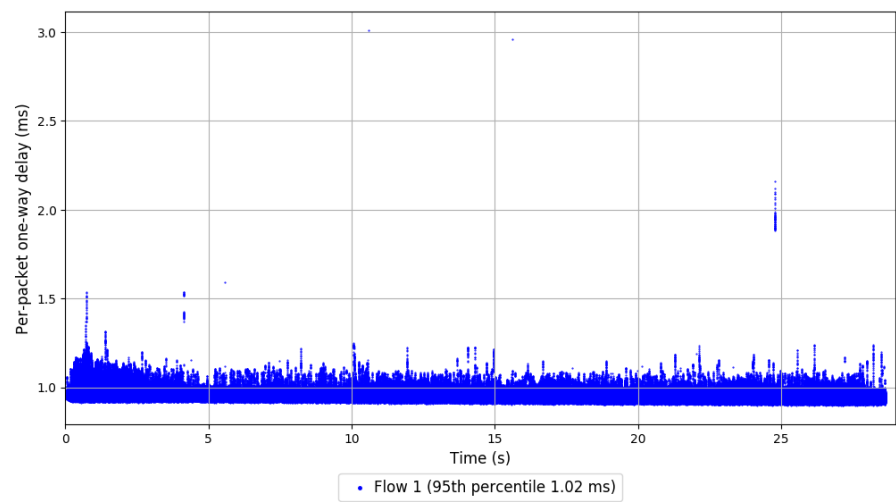
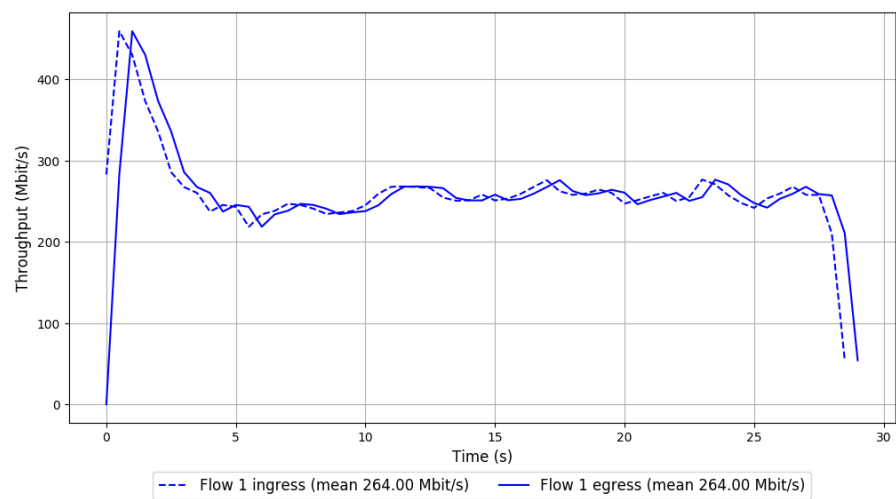
-- Flow 1:

Average throughput: 264.00 Mbit/s

95th percentile per-packet one-way delay: 1.018 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-03-19 10:19:47

End at: 2019-03-19 10:20:17

Local clock offset: 0.942 ms

Remote clock offset: -0.072 ms

Below is generated by plot.py at 2019-03-19 11:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.13 Mbit/s

95th percentile per-packet one-way delay: 1.147 ms

Loss rate: 0.00%

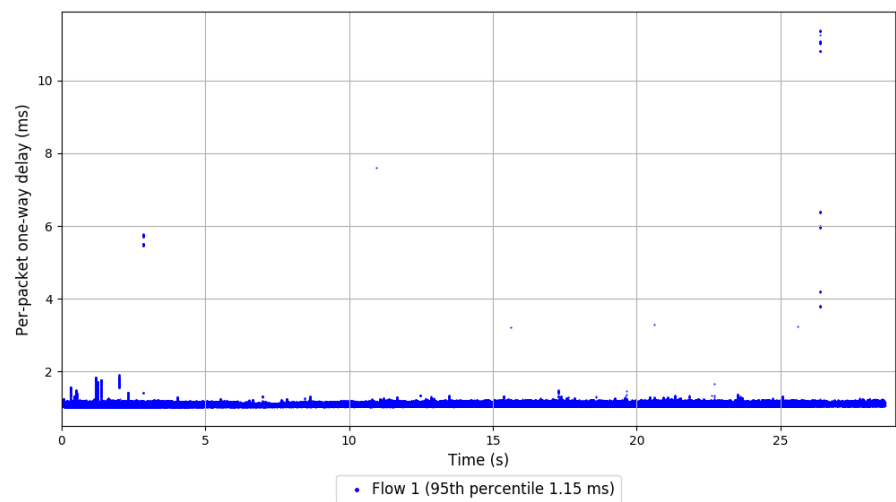
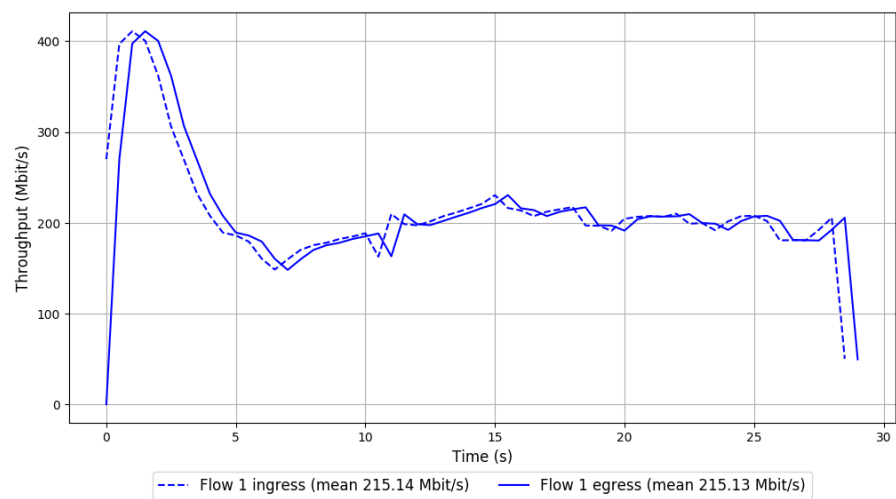
-- Flow 1:

Average throughput: 215.13 Mbit/s

95th percentile per-packet one-way delay: 1.147 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-03-19 10:49:34

End at: 2019-03-19 10:50:04

Local clock offset: 0.348 ms

Remote clock offset: 0.177 ms

Below is generated by plot.py at 2019-03-19 11:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.00 Mbit/s

95th percentile per-packet one-way delay: 0.942 ms

Loss rate: 0.01%

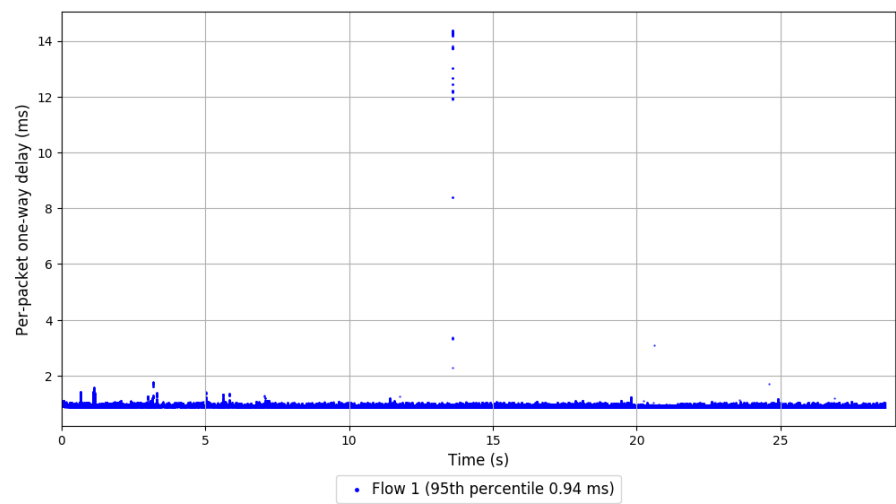
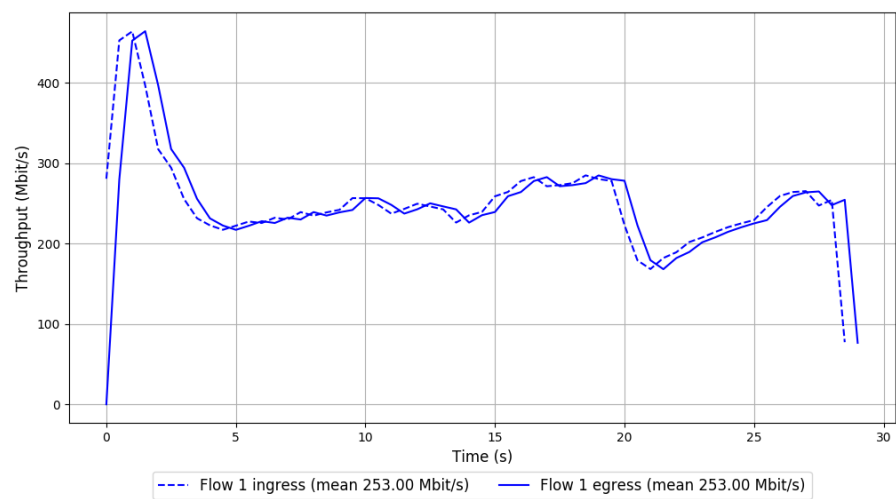
-- Flow 1:

Average throughput: 253.00 Mbit/s

95th percentile per-packet one-way delay: 0.942 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesT — Data Link

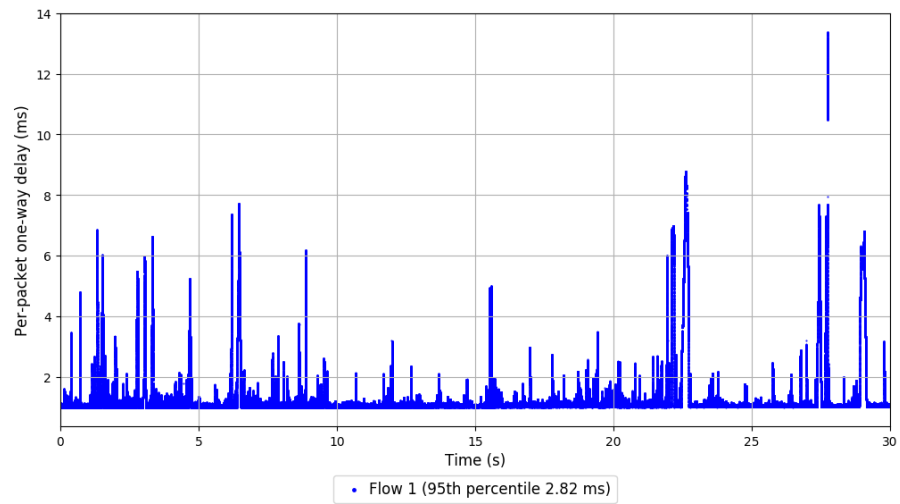
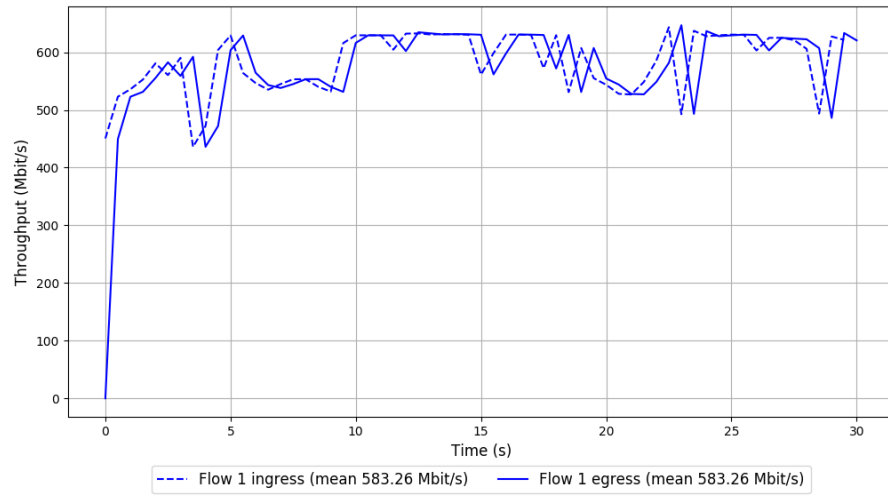


```
Run 1: Statistics of LEDBAT

Start at: 2019-03-19 09:04:18
End at: 2019-03-19 09:04:48
Local clock offset: 0.306 ms
Remote clock offset: 0.271 ms

# Below is generated by plot.py at 2019-03-19 11:54:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 583.26 Mbit/s
95th percentile per-packet one-way delay: 2.822 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 583.26 Mbit/s
95th percentile per-packet one-way delay: 2.822 ms
Loss rate: 0.01%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-03-19 09:34:12

End at: 2019-03-19 09:34:42

Local clock offset: 0.409 ms

Remote clock offset: 0.467 ms

Below is generated by plot.py at 2019-03-19 11:54:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 559.52 Mbit/s

95th percentile per-packet one-way delay: 1.807 ms

Loss rate: 0.01%

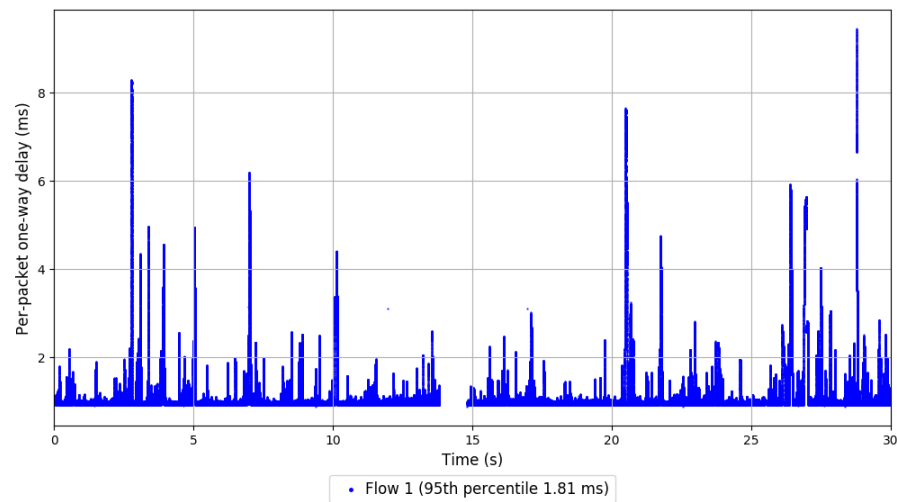
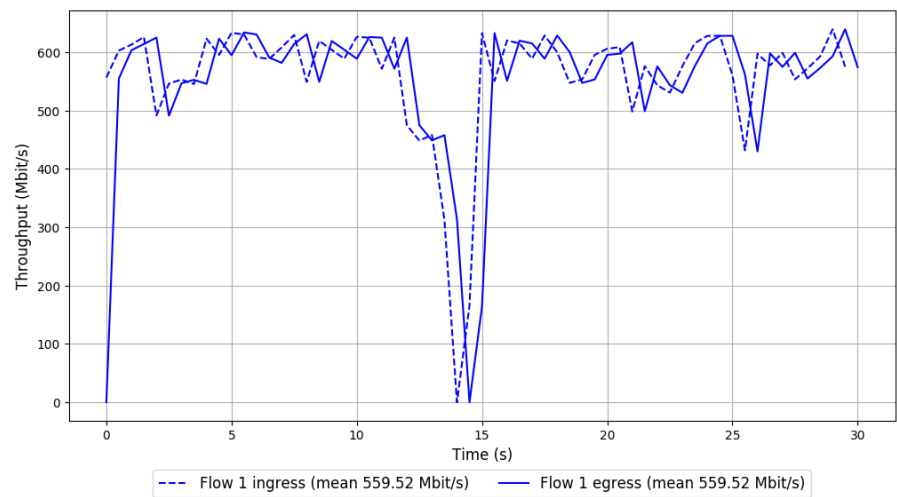
-- Flow 1:

Average throughput: 559.52 Mbit/s

95th percentile per-packet one-way delay: 1.807 ms

Loss rate: 0.01%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-03-19 10:03:57

End at: 2019-03-19 10:04:27

Local clock offset: 1.116 ms

Remote clock offset: 0.263 ms

Below is generated by plot.py at 2019-03-19 11:55:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 509.79 Mbit/s

95th percentile per-packet one-way delay: 13.533 ms

Loss rate: 0.01%

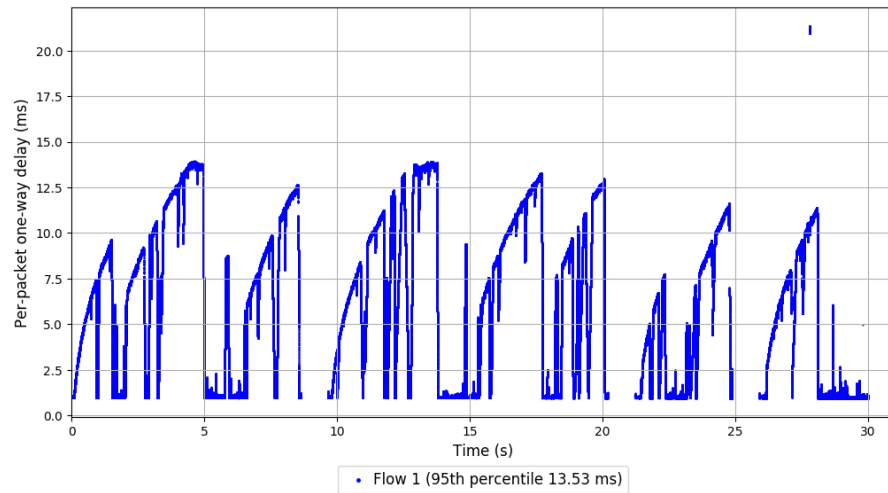
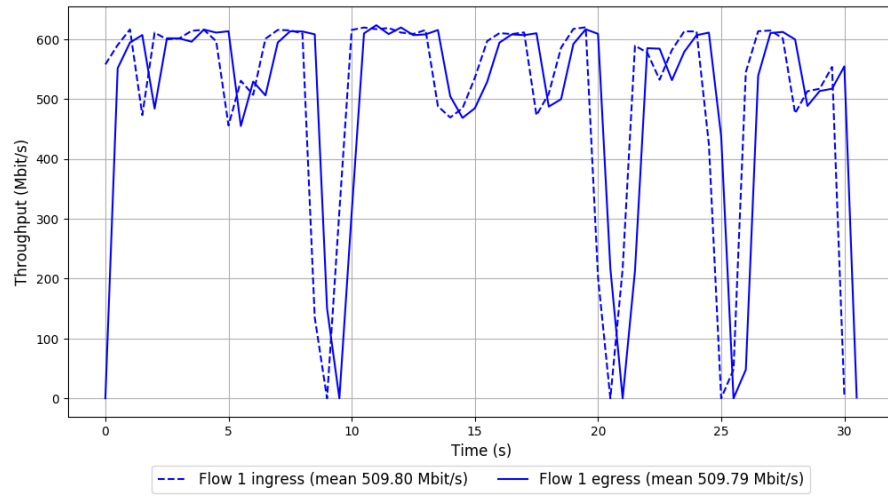
-- Flow 1:

Average throughput: 509.79 Mbit/s

95th percentile per-packet one-way delay: 13.533 ms

Loss rate: 0.01%

Run 3: Report of LEDBAT — Data Link

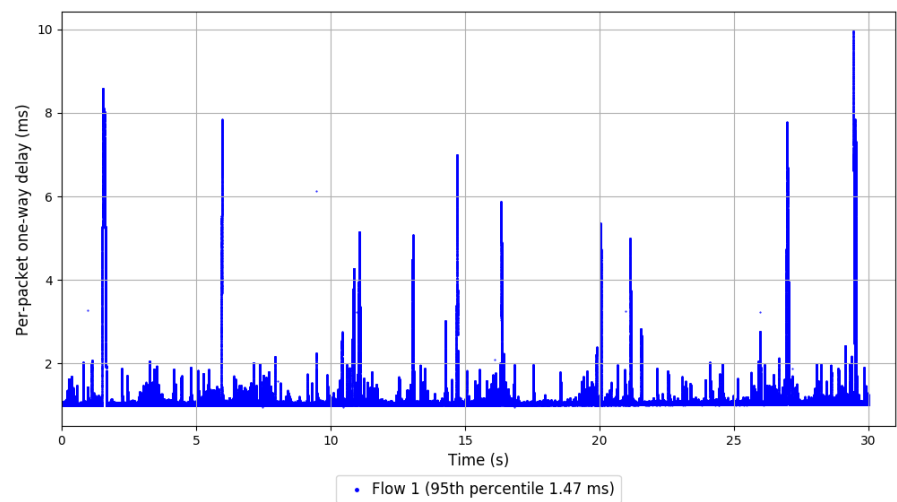
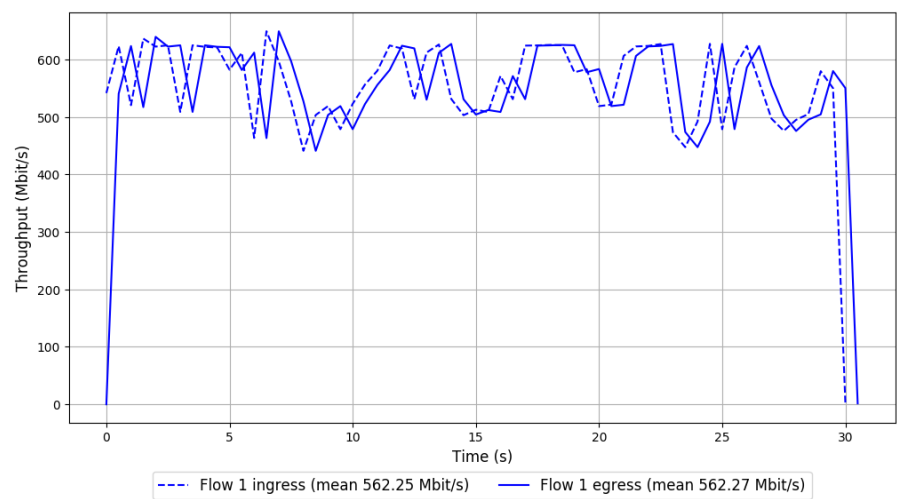


Run 4: Statistics of LEDBAT

Start at: 2019-03-19 10:33:47
End at: 2019-03-19 10:34:17
Local clock offset: 0.371 ms
Remote clock offset: -0.118 ms

Below is generated by plot.py at 2019-03-19 11:55:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 562.27 Mbit/s
95th percentile per-packet one-way delay: 1.473 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 562.27 Mbit/s
95th percentile per-packet one-way delay: 1.473 ms
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-03-19 11:03:24

End at: 2019-03-19 11:03:54

Local clock offset: 0.625 ms

Remote clock offset: 0.259 ms

Below is generated by plot.py at 2019-03-19 11:56:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 586.29 Mbit/s

95th percentile per-packet one-way delay: 3.587 ms

Loss rate: 0.01%

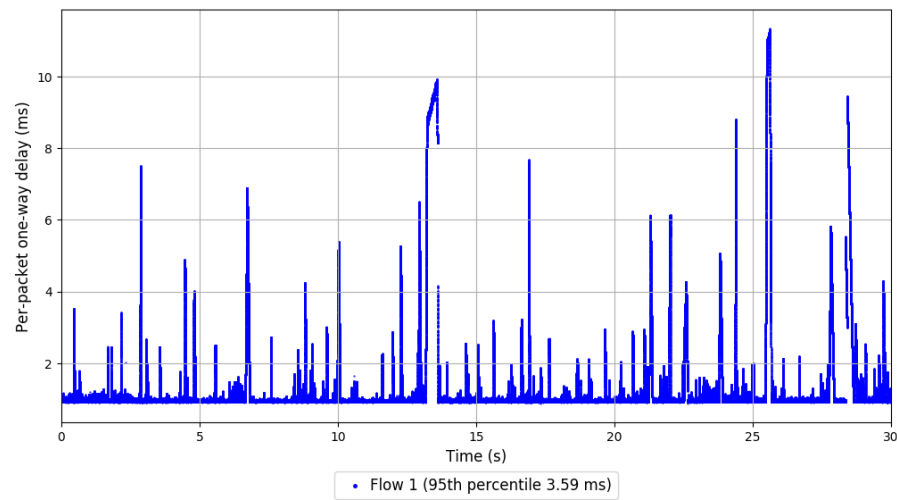
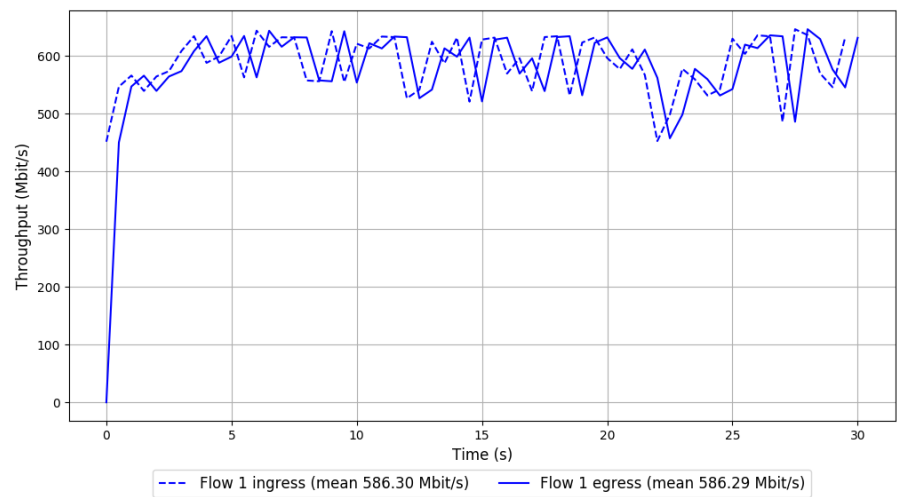
-- Flow 1:

Average throughput: 586.29 Mbit/s

95th percentile per-packet one-way delay: 3.587 ms

Loss rate: 0.01%

Run 5: Report of LEDBAT — Data Link

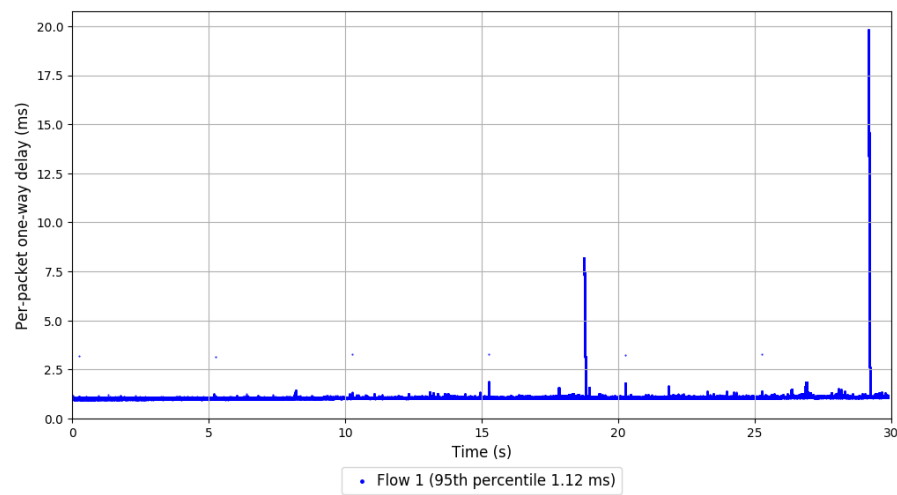
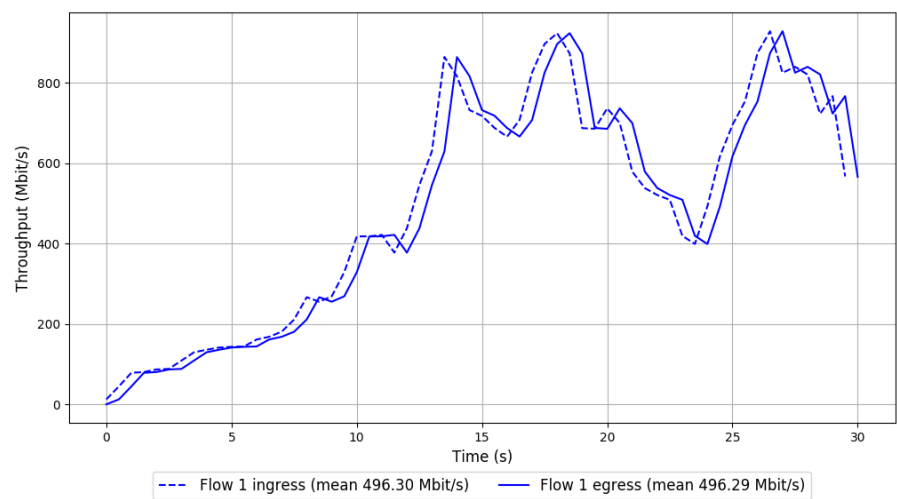


Run 1: Statistics of PCC-Allegro

Start at: 2019-03-19 08:46:01
End at: 2019-03-19 08:46:31
Local clock offset: 0.963 ms
Remote clock offset: -0.021 ms

Below is generated by plot.py at 2019-03-19 11:56:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 496.29 Mbit/s
95th percentile per-packet one-way delay: 1.118 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 496.29 Mbit/s
95th percentile per-packet one-way delay: 1.118 ms
Loss rate: 0.01%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-03-19 09:15:46

End at: 2019-03-19 09:16:16

Local clock offset: 0.161 ms

Remote clock offset: 0.503 ms

Below is generated by plot.py at 2019-03-19 11:58:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 769.70 Mbit/s

95th percentile per-packet one-way delay: 1.462 ms

Loss rate: 0.01%

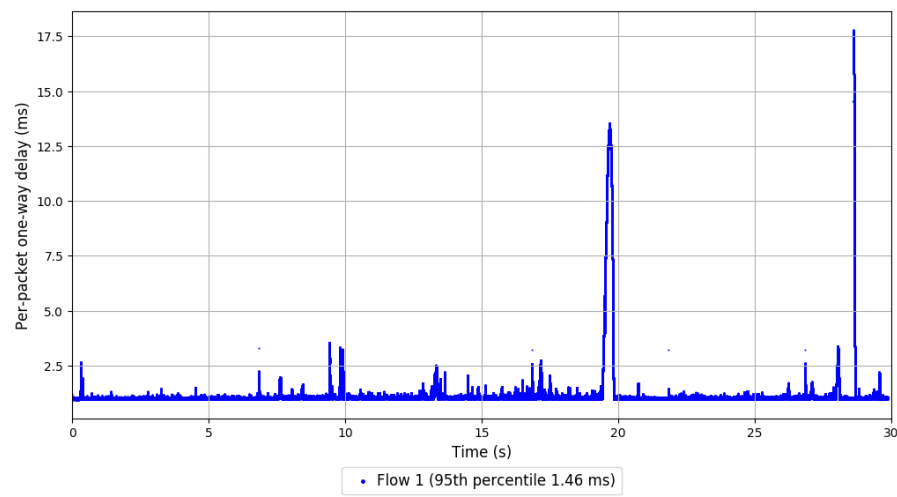
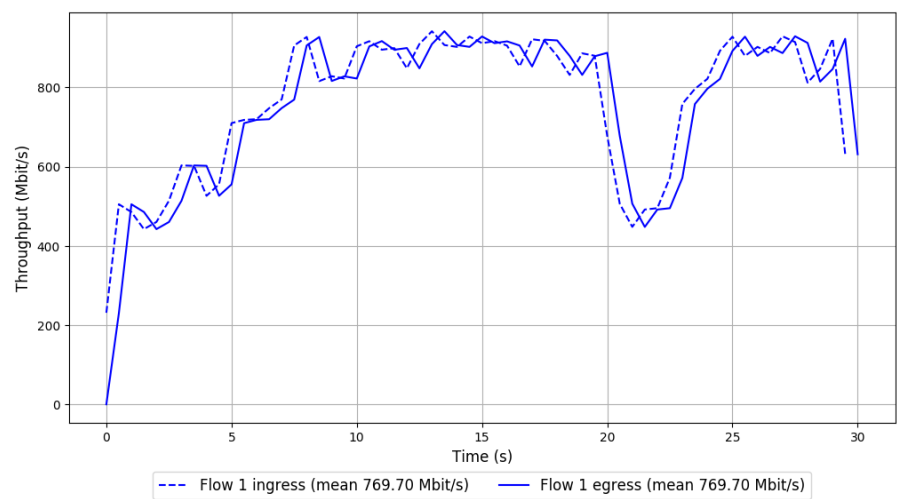
-- Flow 1:

Average throughput: 769.70 Mbit/s

95th percentile per-packet one-way delay: 1.462 ms

Loss rate: 0.01%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-03-19 09:45:34

End at: 2019-03-19 09:46:04

Local clock offset: 0.426 ms

Remote clock offset: 0.514 ms

Below is generated by plot.py at 2019-03-19 12:00:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 709.05 Mbit/s

95th percentile per-packet one-way delay: 1.014 ms

Loss rate: 0.01%

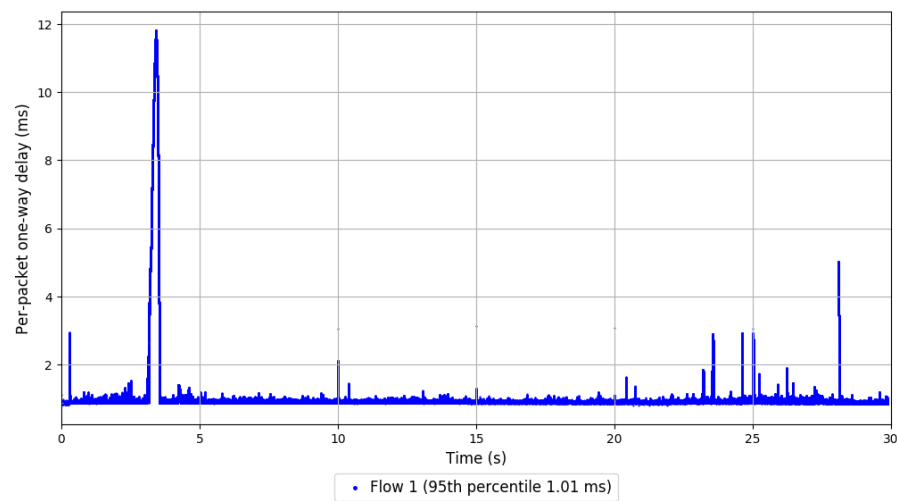
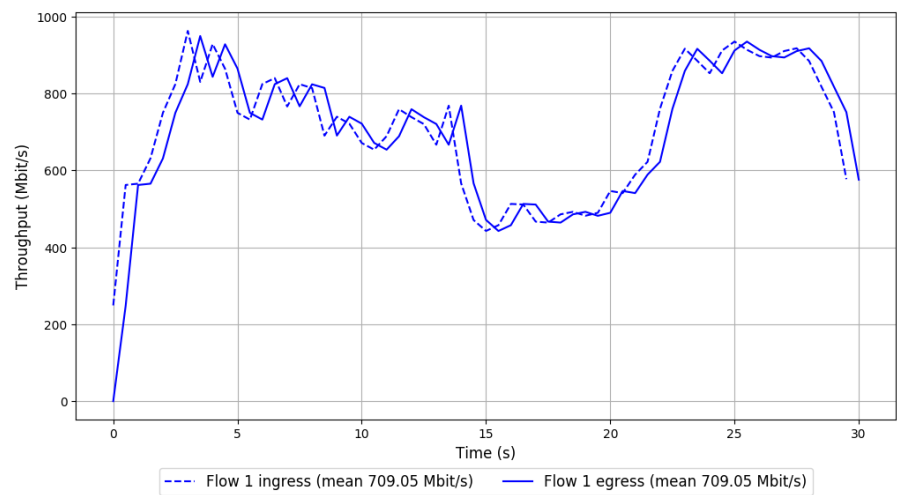
-- Flow 1:

Average throughput: 709.05 Mbit/s

95th percentile per-packet one-way delay: 1.014 ms

Loss rate: 0.01%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-03-19 10:15:23

End at: 2019-03-19 10:15:53

Local clock offset: 1.261 ms

Remote clock offset: -0.057 ms

Below is generated by plot.py at 2019-03-19 12:04:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 872.19 Mbit/s

95th percentile per-packet one-way delay: 1.811 ms

Loss rate: 0.09%

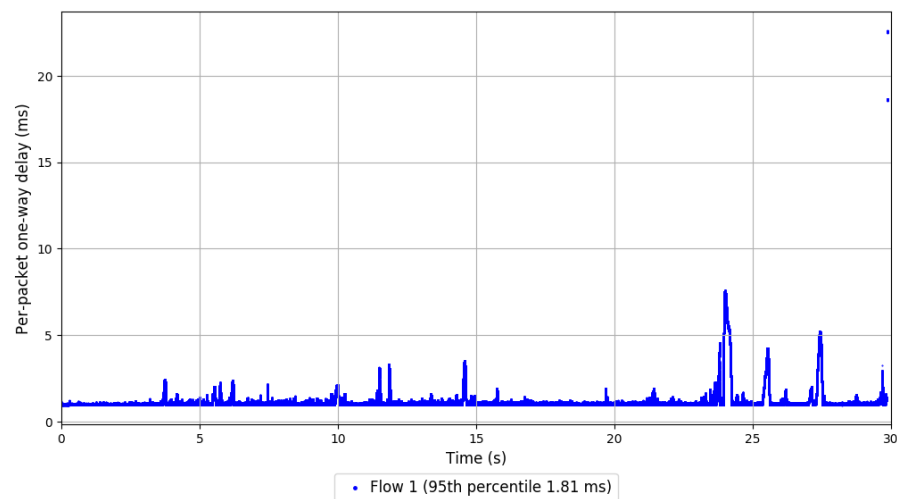
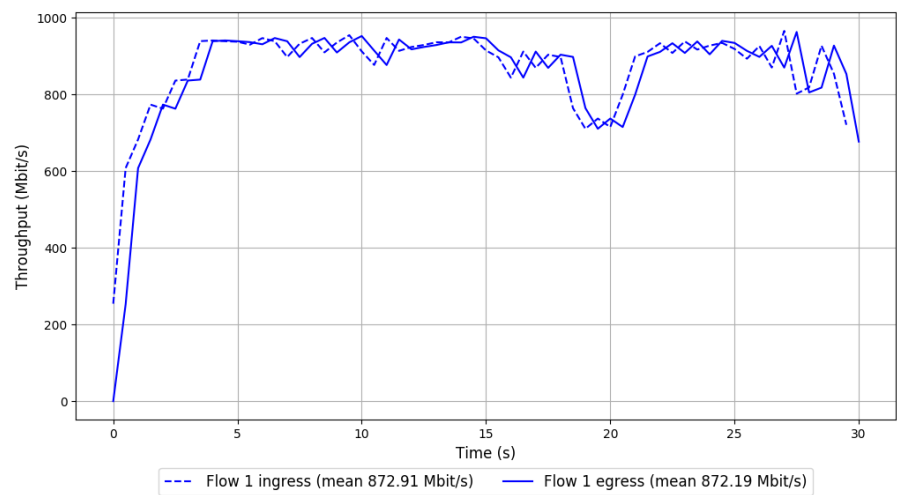
-- Flow 1:

Average throughput: 872.19 Mbit/s

95th percentile per-packet one-way delay: 1.811 ms

Loss rate: 0.09%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-03-19 10:45:13

End at: 2019-03-19 10:45:43

Local clock offset: 0.211 ms

Remote clock offset: 0.148 ms

Below is generated by plot.py at 2019-03-19 12:04:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 809.53 Mbit/s

95th percentile per-packet one-way delay: 71.767 ms

Loss rate: 0.01%

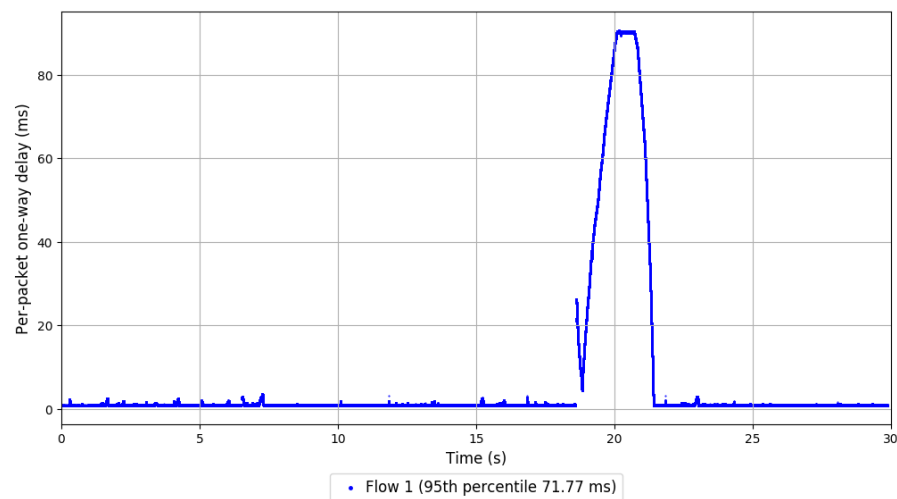
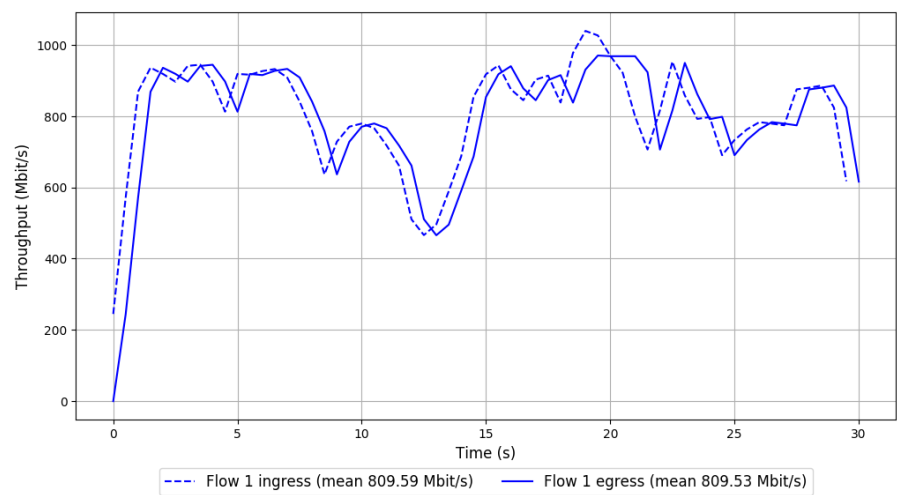
-- Flow 1:

Average throughput: 809.53 Mbit/s

95th percentile per-packet one-way delay: 71.767 ms

Loss rate: 0.01%

Run 5: Report of PCC-Allegro — Data Link

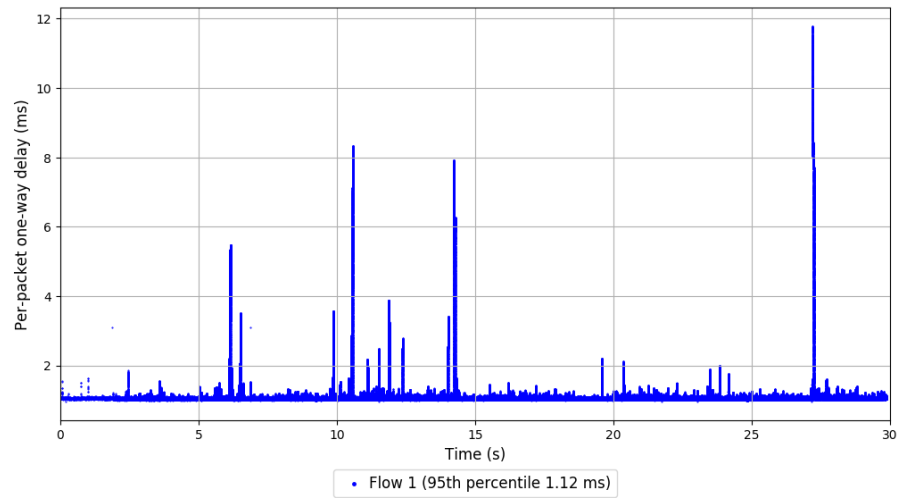
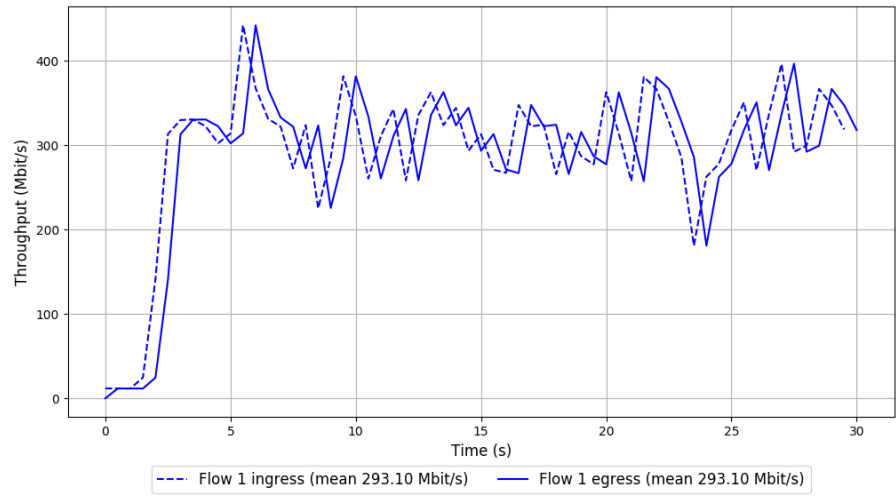


```
Run 1: Statistics of PCC-Expr

Start at: 2019-03-19 09:00:01
End at: 2019-03-19 09:00:31
Local clock offset: 0.368 ms
Remote clock offset: 0.176 ms

# Below is generated by plot.py at 2019-03-19 12:04:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 293.10 Mbit/s
95th percentile per-packet one-way delay: 1.116 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 293.10 Mbit/s
95th percentile per-packet one-way delay: 1.116 ms
Loss rate: 0.01%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-03-19 09:29:50

End at: 2019-03-19 09:30:20

Local clock offset: 0.377 ms

Remote clock offset: 0.52 ms

Below is generated by plot.py at 2019-03-19 12:04:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 355.01 Mbit/s

95th percentile per-packet one-way delay: 3.029 ms

Loss rate: 0.06%

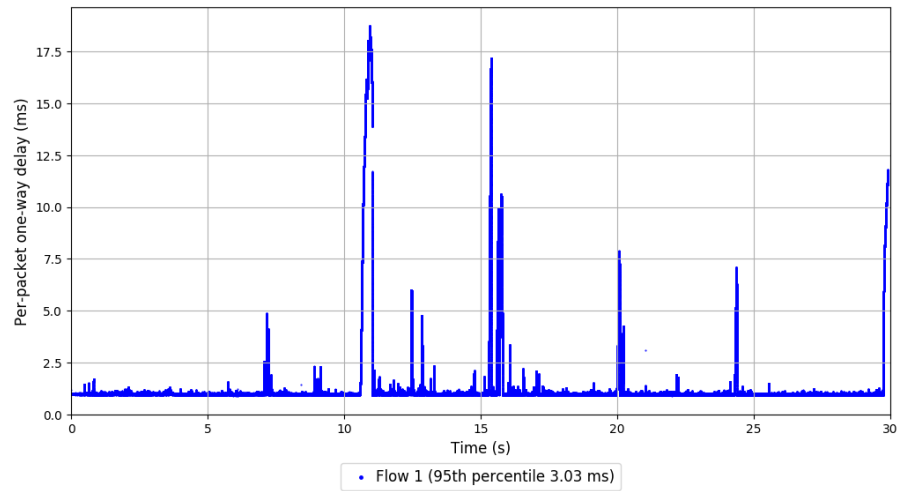
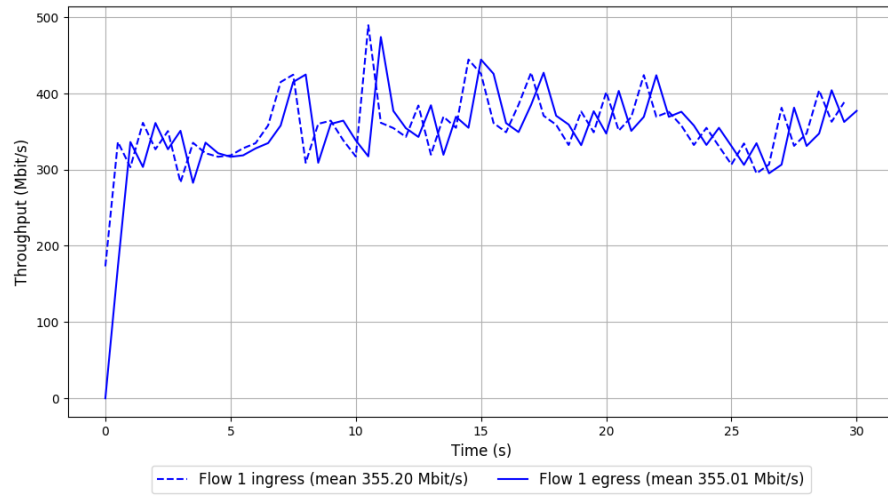
-- Flow 1:

Average throughput: 355.01 Mbit/s

95th percentile per-packet one-way delay: 3.029 ms

Loss rate: 0.06%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-03-19 09:59:36

End at: 2019-03-19 10:00:06

Local clock offset: 1.018 ms

Remote clock offset: 0.542 ms

Below is generated by plot.py at 2019-03-19 12:04:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 303.87 Mbit/s

95th percentile per-packet one-way delay: 1.059 ms

Loss rate: 0.01%

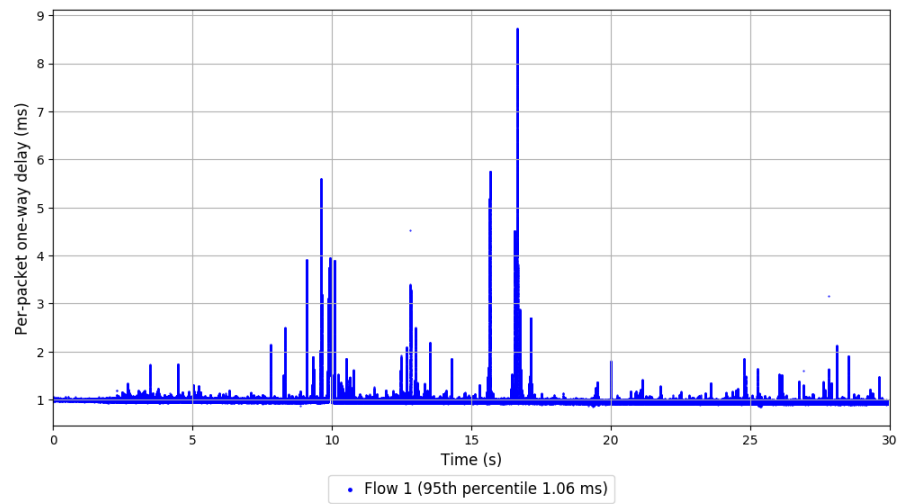
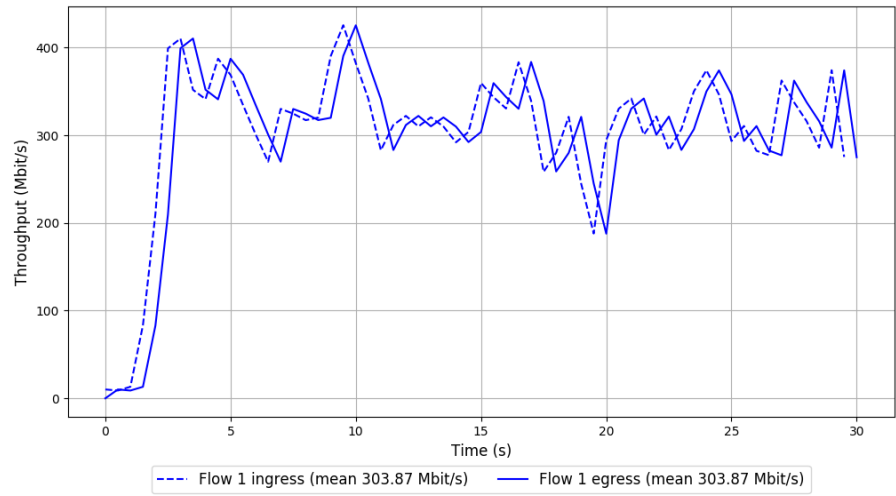
-- Flow 1:

Average throughput: 303.87 Mbit/s

95th percentile per-packet one-way delay: 1.059 ms

Loss rate: 0.01%

Run 3: Report of PCC-Expr — Data Link

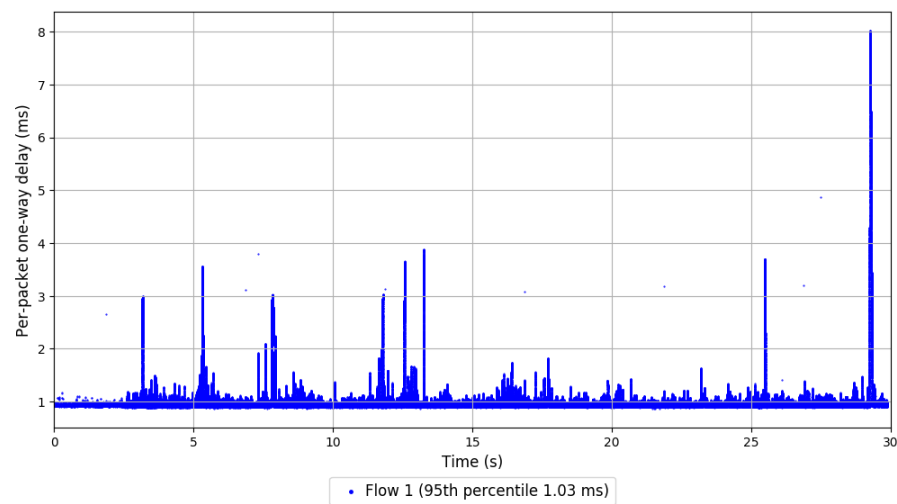
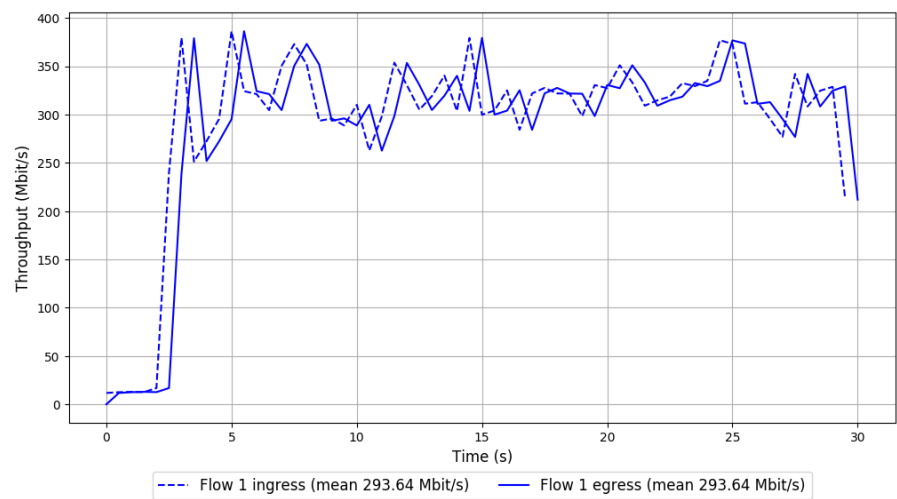


Run 4: Statistics of PCC-Expr

Start at: 2019-03-19 10:29:28
End at: 2019-03-19 10:29:58
Local clock offset: 0.479 ms
Remote clock offset: -0.027 ms

Below is generated by plot.py at 2019-03-19 12:04:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 293.64 Mbit/s
95th percentile per-packet one-way delay: 1.032 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 293.64 Mbit/s
95th percentile per-packet one-way delay: 1.032 ms
Loss rate: 0.01%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-03-19 10:59:23

End at: 2019-03-19 10:59:53

Local clock offset: 0.565 ms

Remote clock offset: 0.179 ms

Below is generated by plot.py at 2019-03-19 12:04:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.30 Mbit/s

95th percentile per-packet one-way delay: 1.002 ms

Loss rate: 0.01%

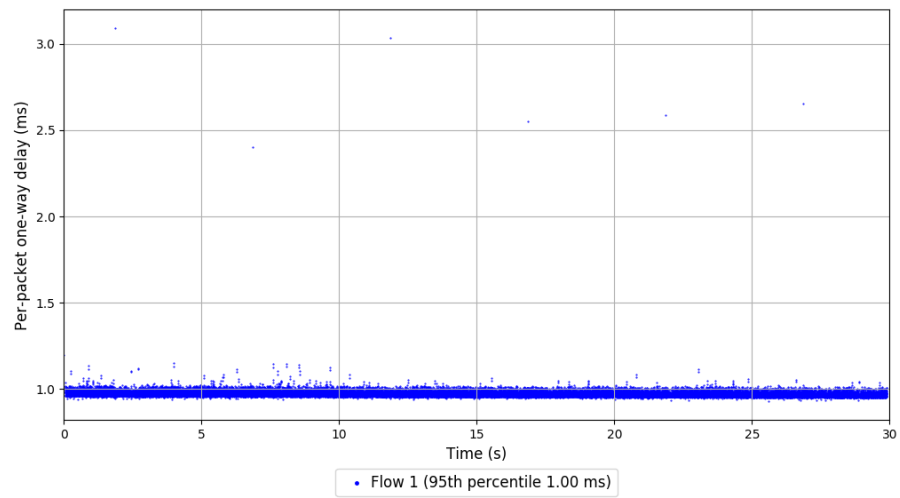
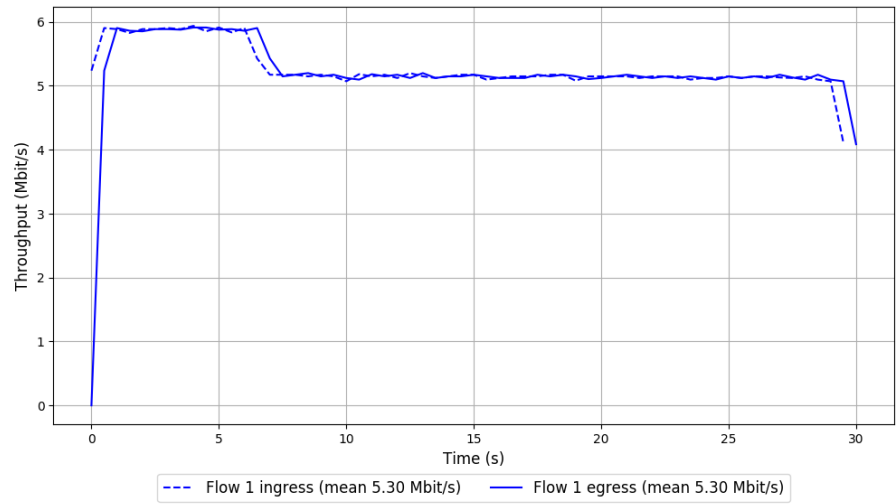
-- Flow 1:

Average throughput: 5.30 Mbit/s

95th percentile per-packet one-way delay: 1.002 ms

Loss rate: 0.01%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-03-19 08:57:33

End at: 2019-03-19 08:58:03

Local clock offset: 0.43 ms

Remote clock offset: 0.194 ms

Below is generated by plot.py at 2019-03-19 12:04:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.74 Mbit/s

95th percentile per-packet one-way delay: 1.021 ms

Loss rate: 0.01%

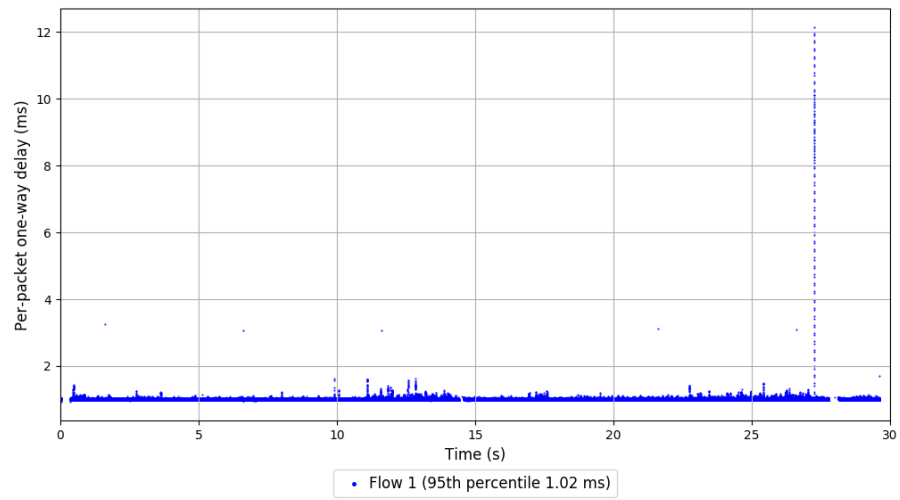
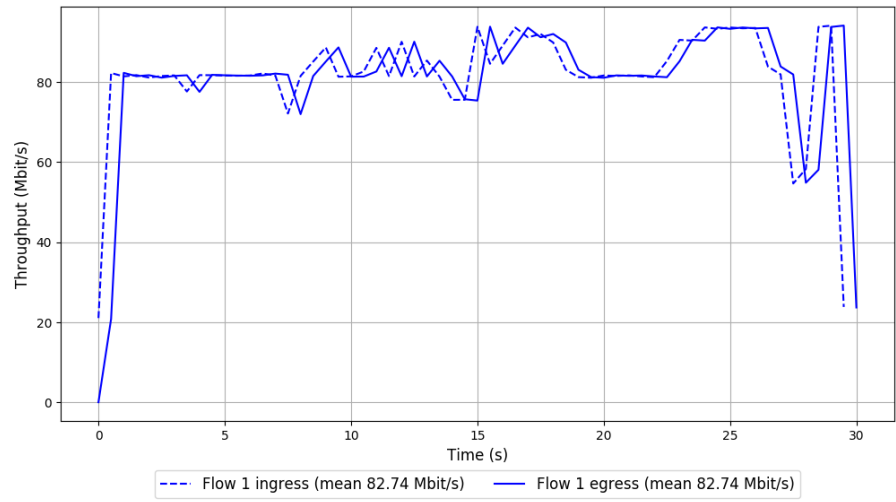
-- Flow 1:

Average throughput: 82.74 Mbit/s

95th percentile per-packet one-way delay: 1.021 ms

Loss rate: 0.01%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-03-19 09:27:21

End at: 2019-03-19 09:27:51

Local clock offset: 0.375 ms

Remote clock offset: 0.641 ms

Below is generated by plot.py at 2019-03-19 12:04:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.95 Mbit/s

95th percentile per-packet one-way delay: 1.029 ms

Loss rate: 0.01%

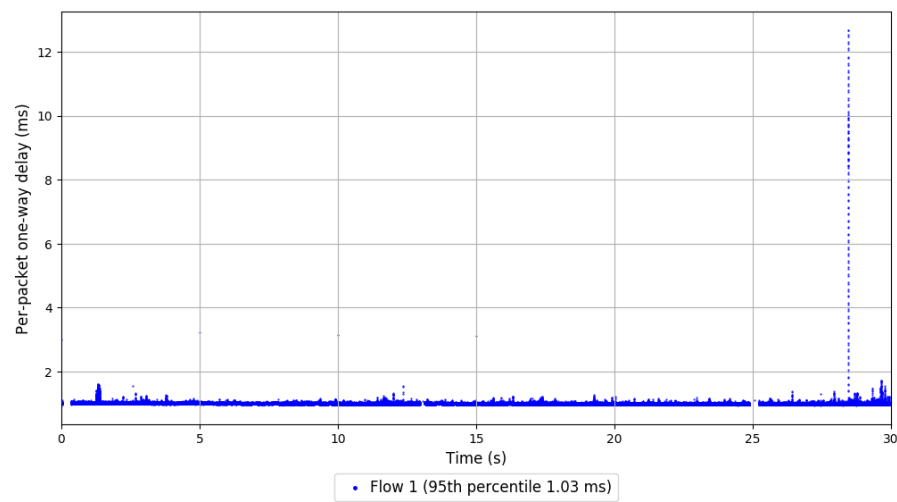
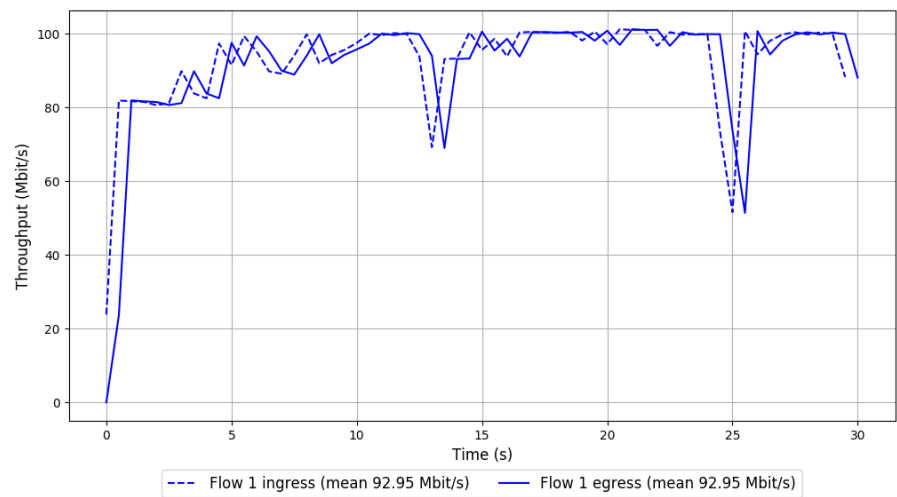
-- Flow 1:

Average throughput: 92.95 Mbit/s

95th percentile per-packet one-way delay: 1.029 ms

Loss rate: 0.01%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-03-19 09:57:07

End at: 2019-03-19 09:57:37

Local clock offset: 0.963 ms

Remote clock offset: 0.537 ms

Below is generated by plot.py at 2019-03-19 12:04:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.84 Mbit/s

95th percentile per-packet one-way delay: 1.011 ms

Loss rate: 0.01%

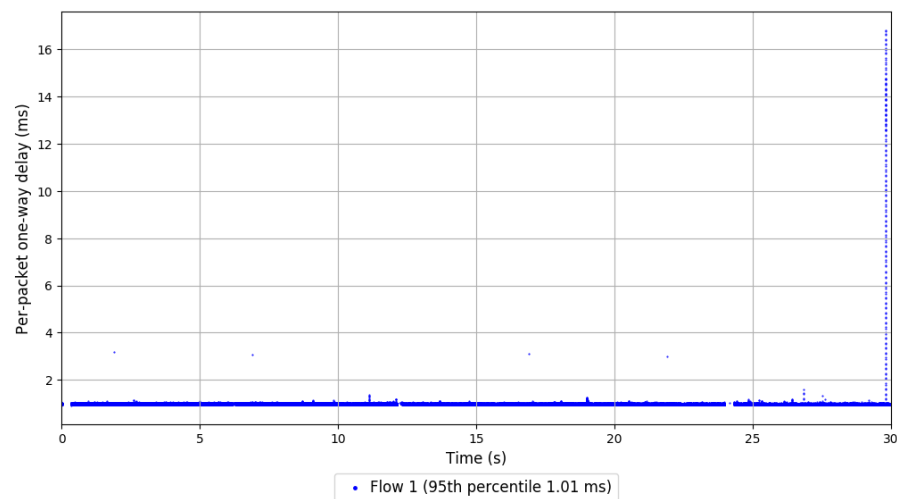
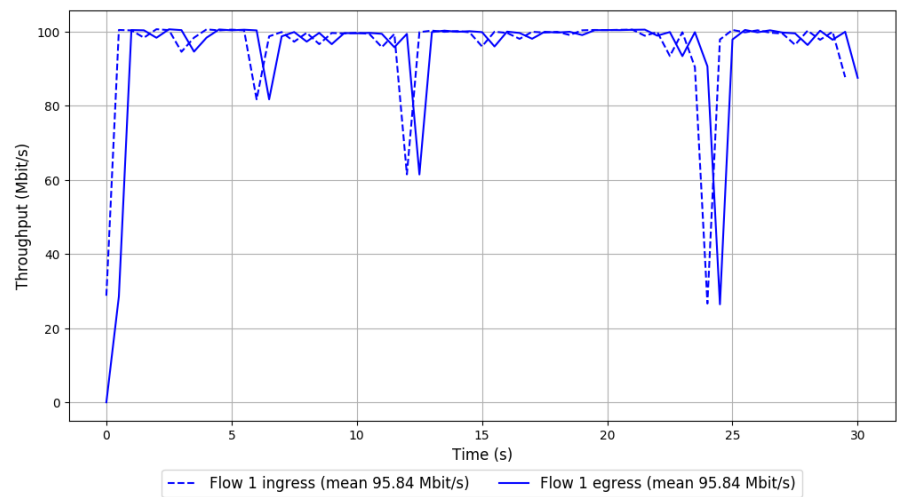
-- Flow 1:

Average throughput: 95.84 Mbit/s

95th percentile per-packet one-way delay: 1.011 ms

Loss rate: 0.01%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-03-19 10:26:59

End at: 2019-03-19 10:27:29

Local clock offset: 0.559 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2019-03-19 12:04:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.00 Mbit/s

95th percentile per-packet one-way delay: 0.936 ms

Loss rate: 0.01%

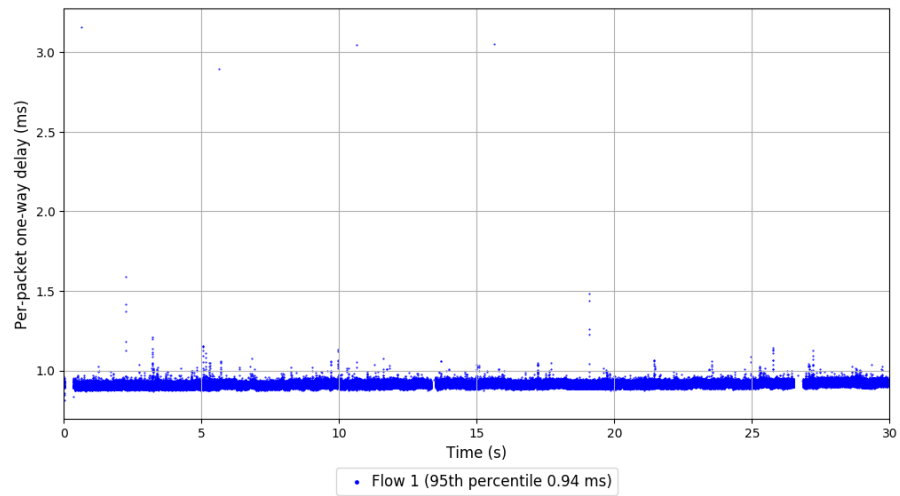
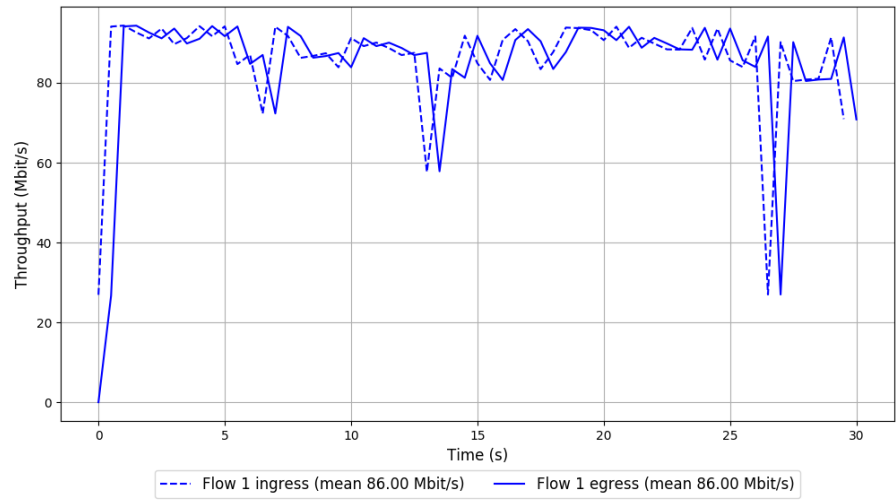
-- Flow 1:

Average throughput: 86.00 Mbit/s

95th percentile per-packet one-way delay: 0.936 ms

Loss rate: 0.01%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-03-19 10:56:54

End at: 2019-03-19 10:57:24

Local clock offset: 0.542 ms

Remote clock offset: 0.143 ms

Below is generated by plot.py at 2019-03-19 12:04:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.52 Mbit/s

95th percentile per-packet one-way delay: 1.047 ms

Loss rate: 0.01%

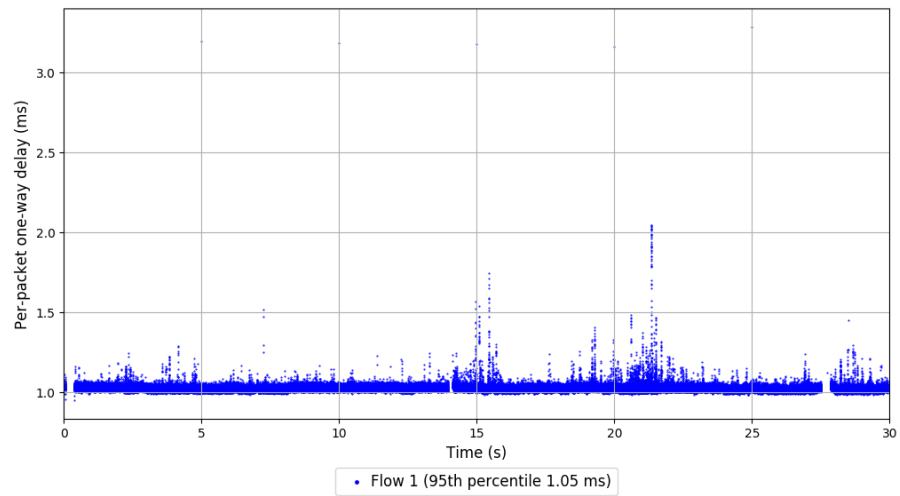
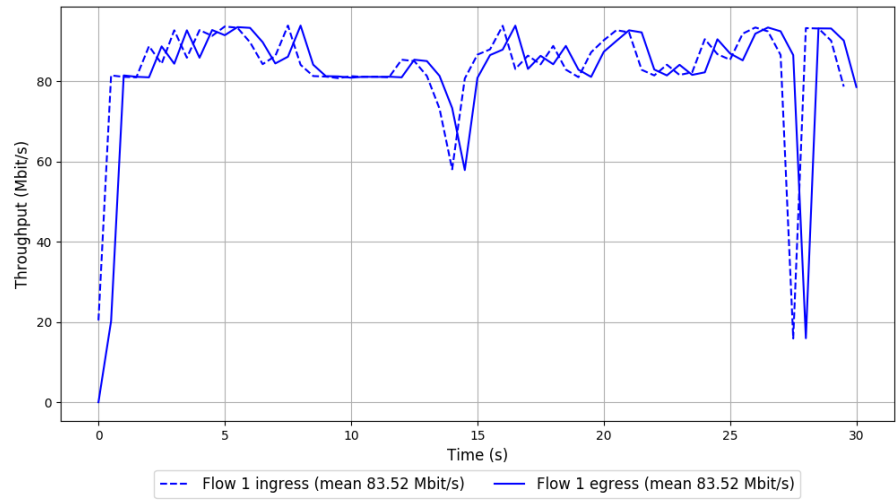
-- Flow 1:

Average throughput: 83.52 Mbit/s

95th percentile per-packet one-way delay: 1.047 ms

Loss rate: 0.01%

Run 5: Report of QUIC Cubic — Data Link

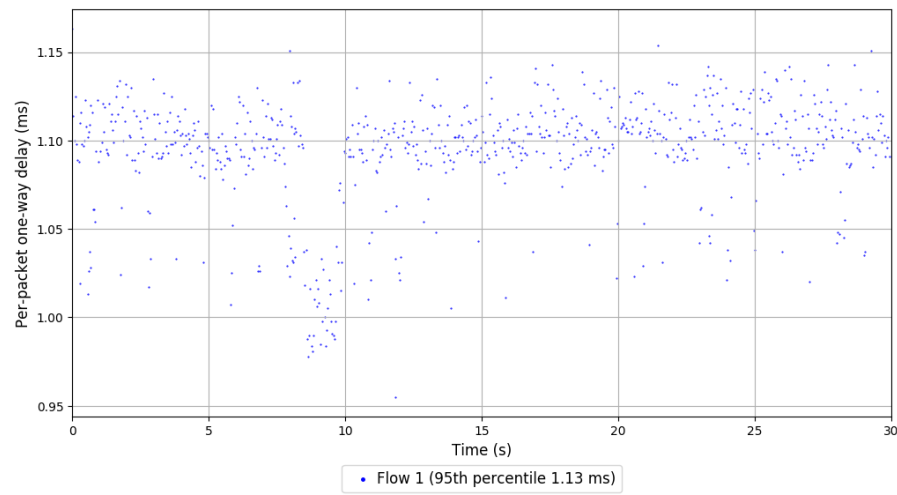
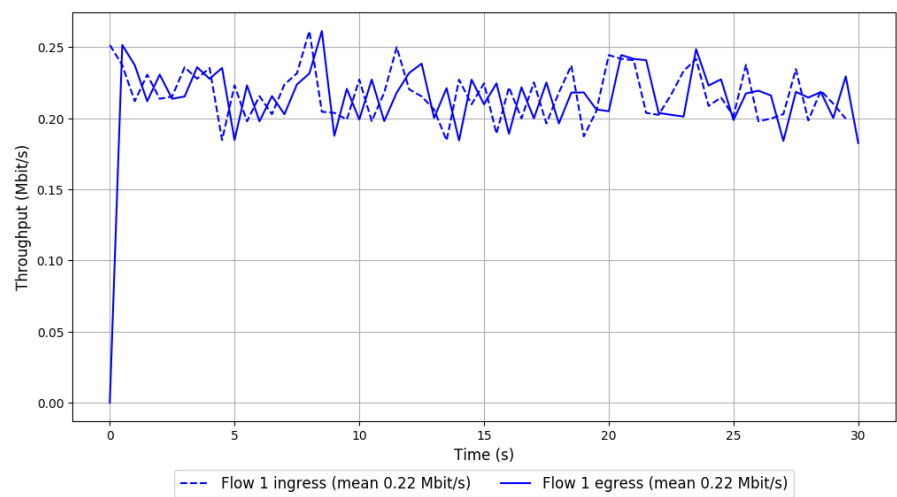


```
Run 1: Statistics of SCReAM

Start at: 2019-03-19 08:40:16
End at: 2019-03-19 08:40:46
Local clock offset: 0.959 ms
Remote clock offset: -0.123 ms

# Below is generated by plot.py at 2019-03-19 12:04:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.132 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.132 ms
Loss rate: 0.13%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-03-19 09:10:02

End at: 2019-03-19 09:10:32

Local clock offset: 0.207 ms

Remote clock offset: 0.424 ms

Below is generated by plot.py at 2019-03-19 12:04:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.104 ms

Loss rate: 0.13%

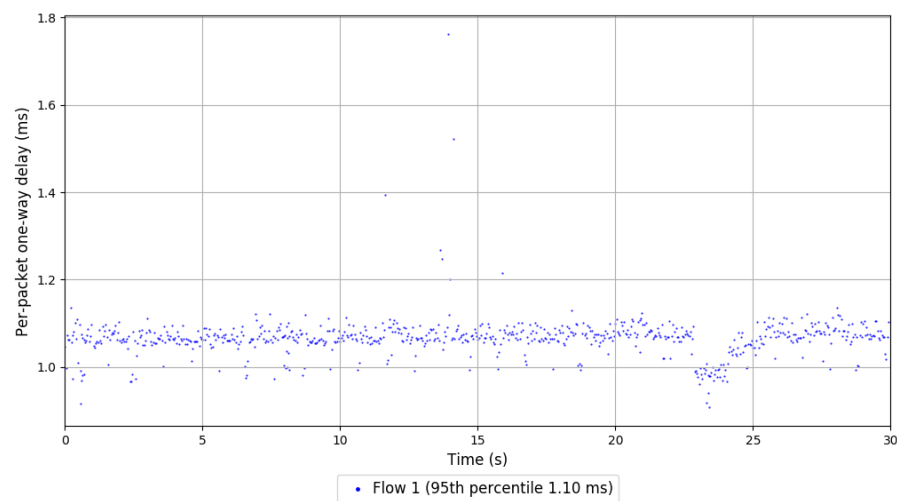
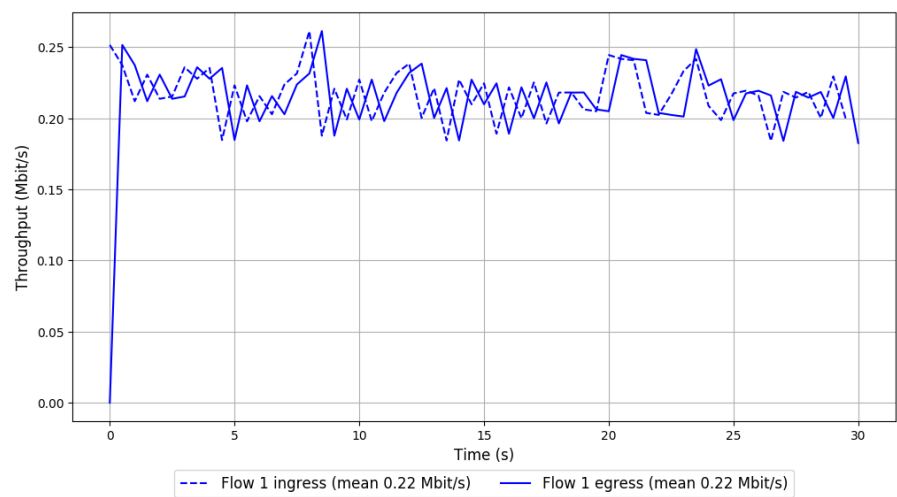
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.104 ms

Loss rate: 0.13%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-03-19 09:39:50

End at: 2019-03-19 09:40:20

Local clock offset: 0.424 ms

Remote clock offset: 0.42 ms

Below is generated by plot.py at 2019-03-19 12:04:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.120 ms

Loss rate: 0.00%

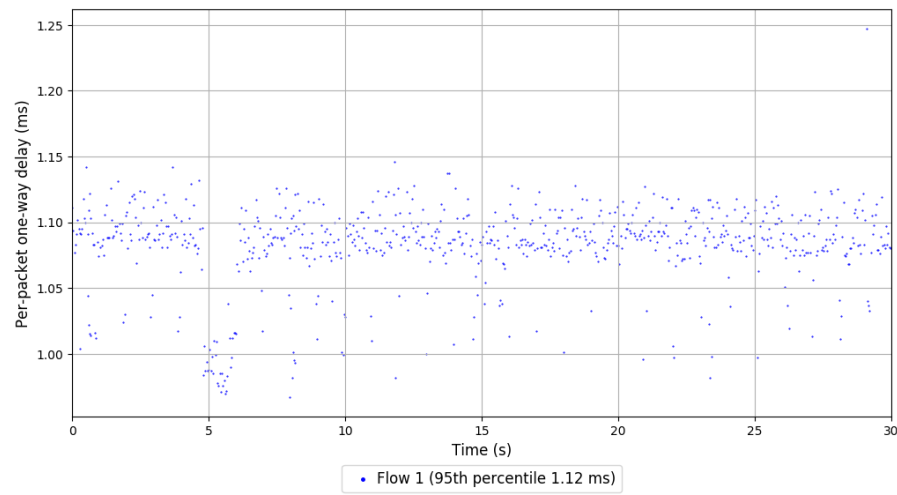
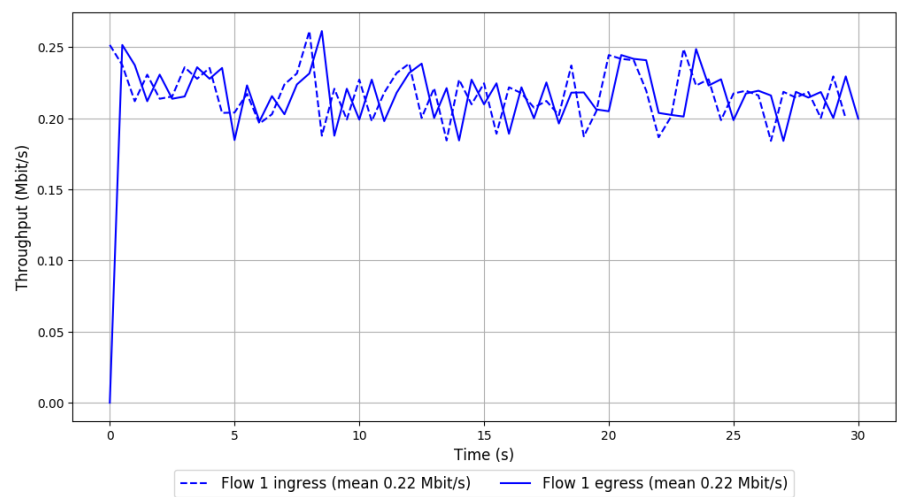
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.120 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-03-19 10:09:36

End at: 2019-03-19 10:10:06

Local clock offset: 1.185 ms

Remote clock offset: 0.074 ms

Below is generated by plot.py at 2019-03-19 12:04:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.091 ms

Loss rate: 0.00%

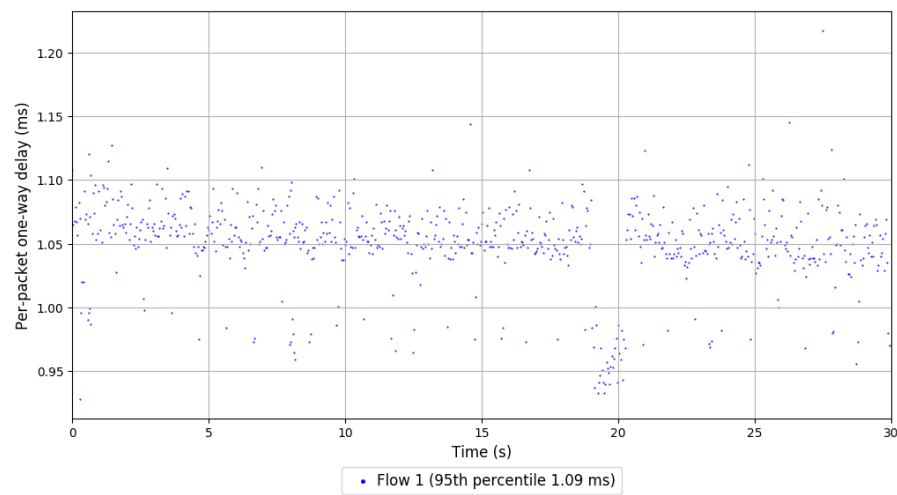
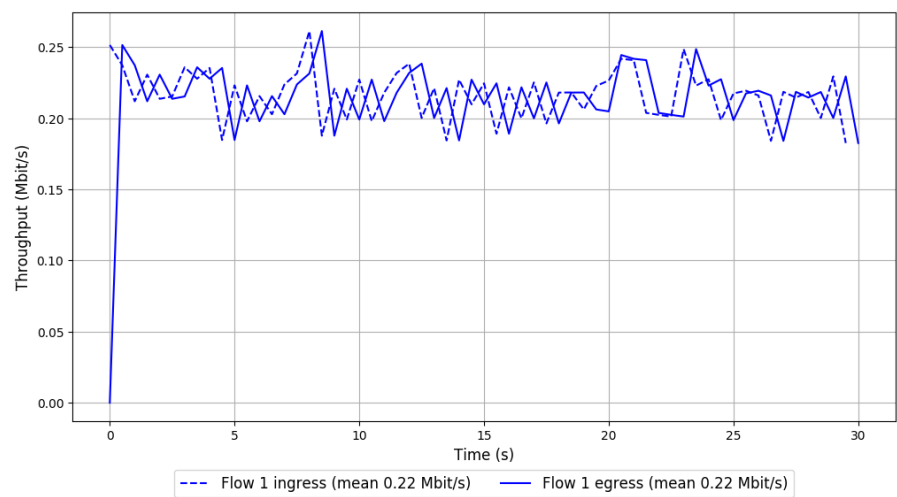
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.091 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-03-19 10:39:27

End at: 2019-03-19 10:39:57

Local clock offset: 0.306 ms

Remote clock offset: 0.091 ms

Below is generated by plot.py at 2019-03-19 12:04:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.083 ms

Loss rate: 0.00%

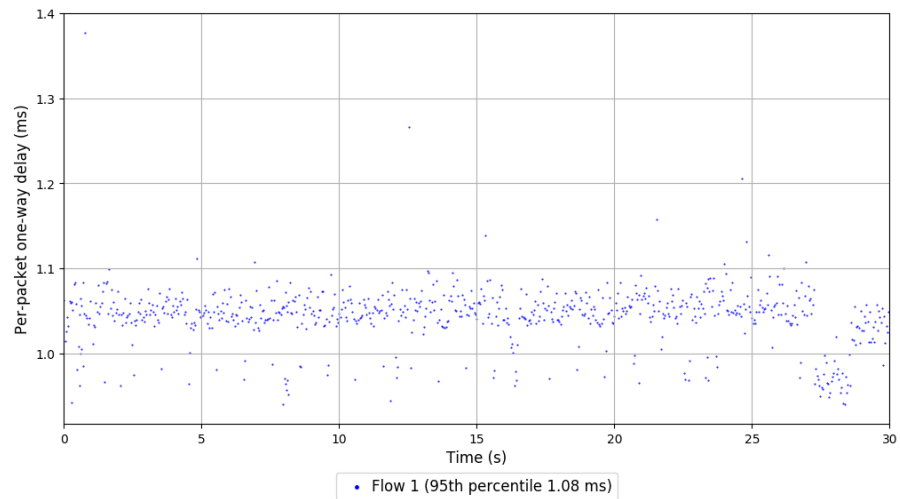
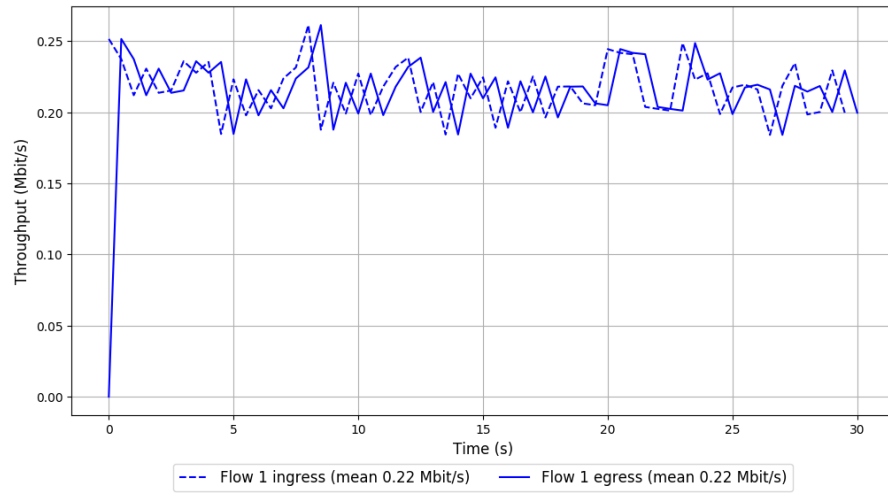
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.083 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-03-19 08:49:02

End at: 2019-03-19 08:49:32

Local clock offset: 0.777 ms

Remote clock offset: 0.179 ms

Below is generated by plot.py at 2019-03-19 12:04:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.22 Mbit/s

95th percentile per-packet one-way delay: 1.037 ms

Loss rate: 0.00%

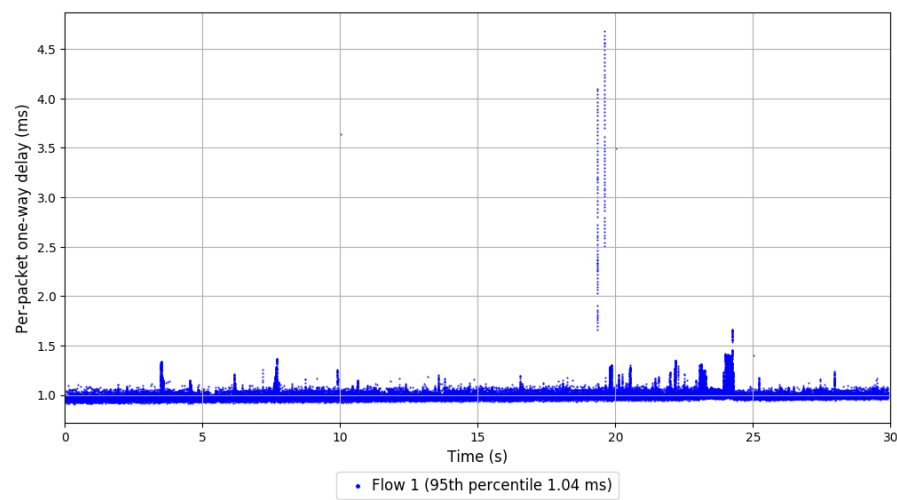
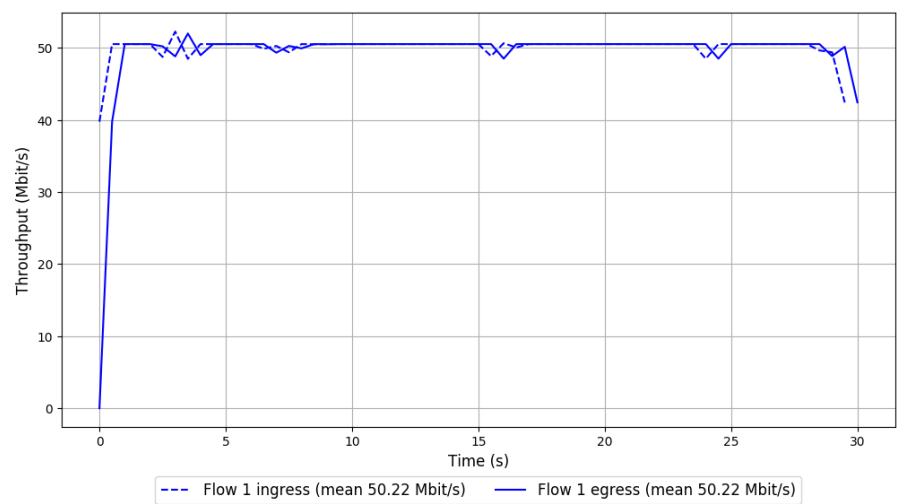
-- Flow 1:

Average throughput: 50.22 Mbit/s

95th percentile per-packet one-way delay: 1.037 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-03-19 09:18:50

End at: 2019-03-19 09:19:20

Local clock offset: 0.24 ms

Remote clock offset: 0.678 ms

Below is generated by plot.py at 2019-03-19 12:04:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.27 Mbit/s

95th percentile per-packet one-way delay: 0.969 ms

Loss rate: 0.00%

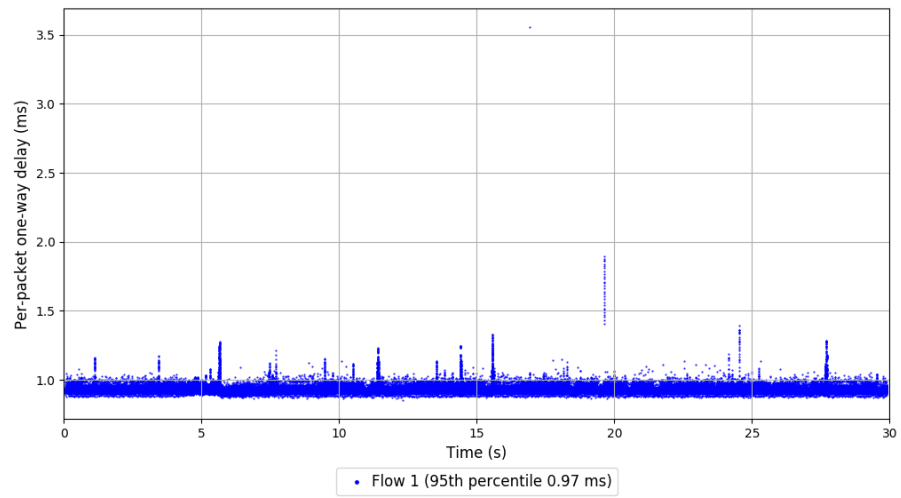
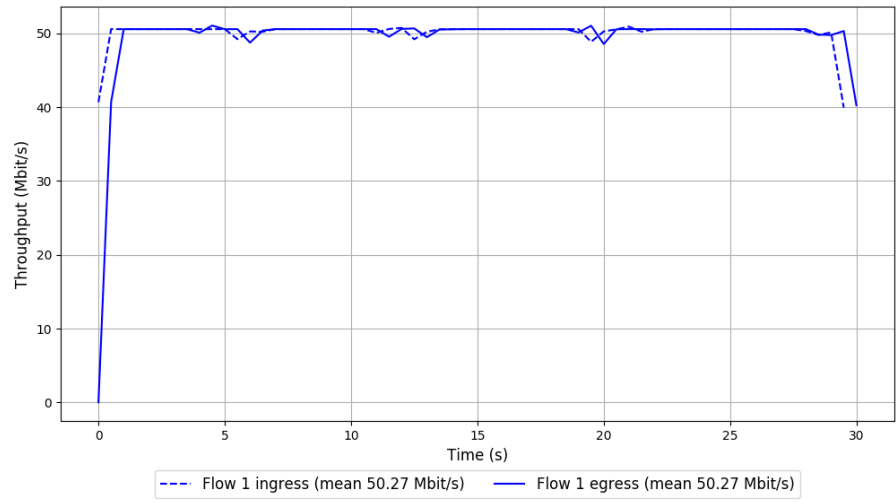
-- Flow 1:

Average throughput: 50.27 Mbit/s

95th percentile per-packet one-way delay: 0.969 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-03-19 09:48:41

End at: 2019-03-19 09:49:11

Local clock offset: 0.595 ms

Remote clock offset: 0.504 ms

Below is generated by plot.py at 2019-03-19 12:04:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.27 Mbit/s

95th percentile per-packet one-way delay: 0.987 ms

Loss rate: 0.00%

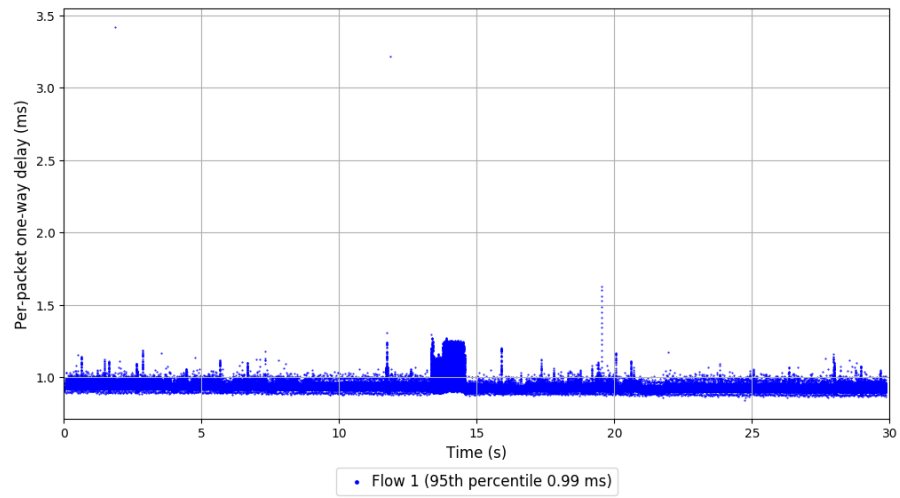
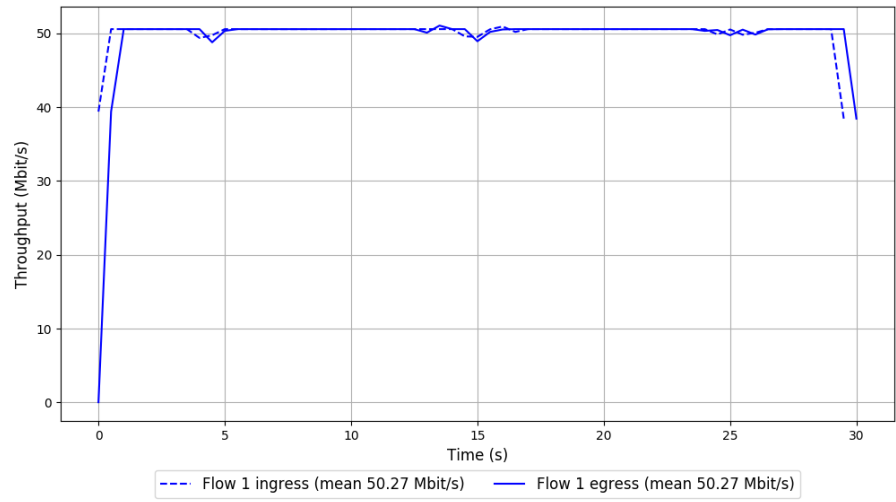
-- Flow 1:

Average throughput: 50.27 Mbit/s

95th percentile per-packet one-way delay: 0.987 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-03-19 10:18:33

End at: 2019-03-19 10:19:03

Local clock offset: 1.063 ms

Remote clock offset: 0.049 ms

Below is generated by plot.py at 2019-03-19 12:04:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.21 Mbit/s

95th percentile per-packet one-way delay: 1.035 ms

Loss rate: 0.00%

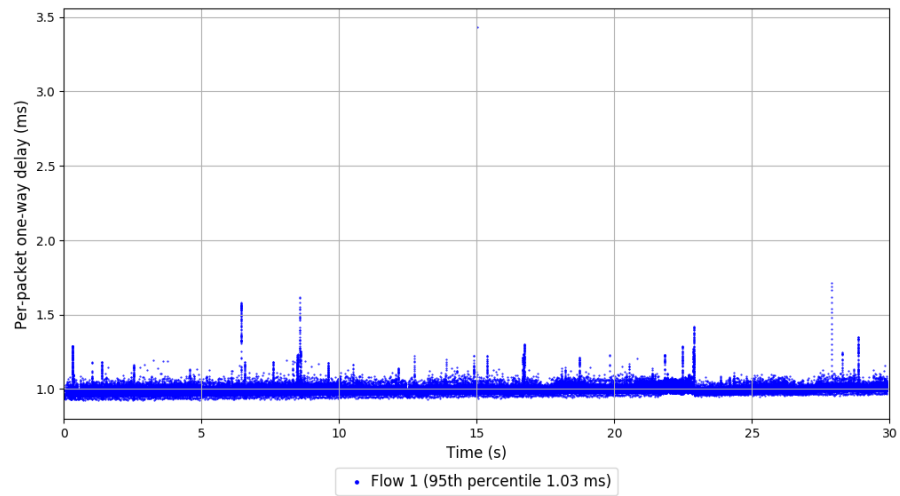
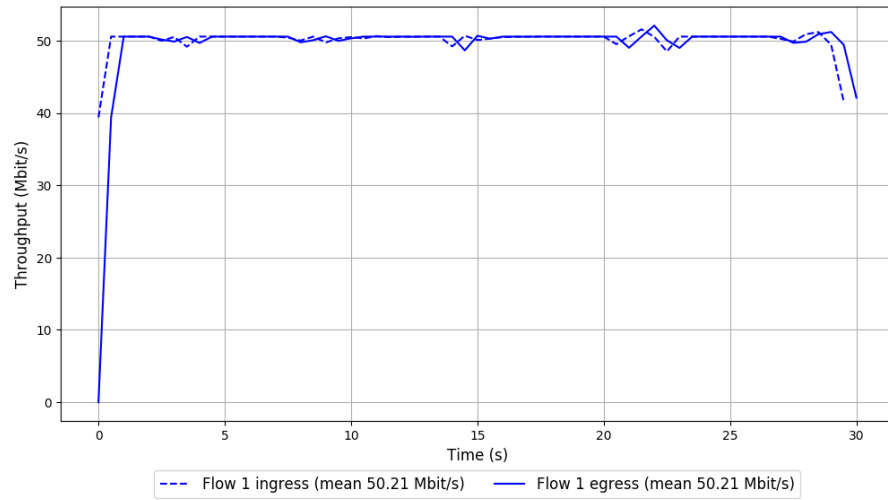
-- Flow 1:

Average throughput: 50.21 Mbit/s

95th percentile per-packet one-way delay: 1.035 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-03-19 10:48:19

End at: 2019-03-19 10:48:49

Local clock offset: 0.279 ms

Remote clock offset: 0.101 ms

Below is generated by plot.py at 2019-03-19 12:04:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.31 Mbit/s

95th percentile per-packet one-way delay: 1.020 ms

Loss rate: 0.00%

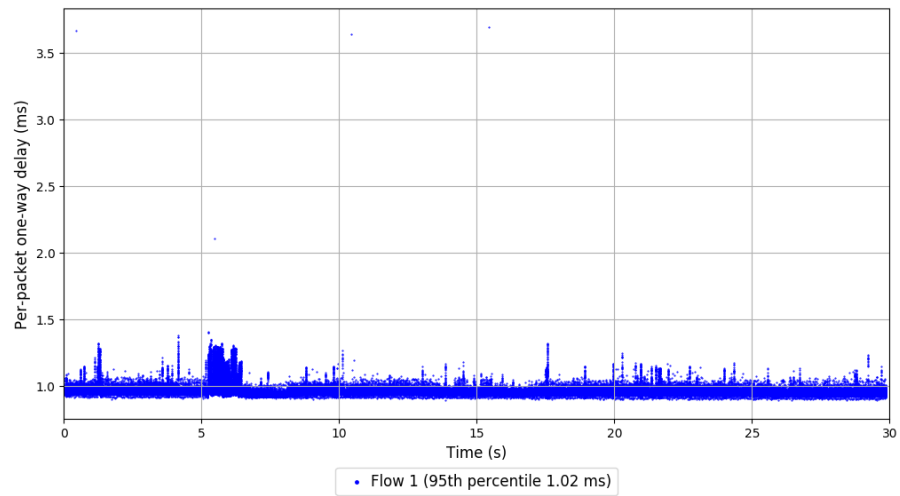
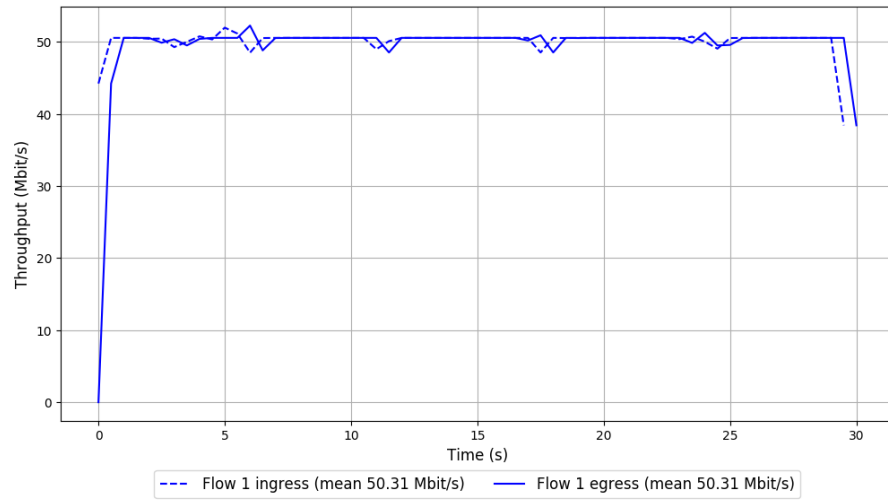
-- Flow 1:

Average throughput: 50.31 Mbit/s

95th percentile per-packet one-way delay: 1.020 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

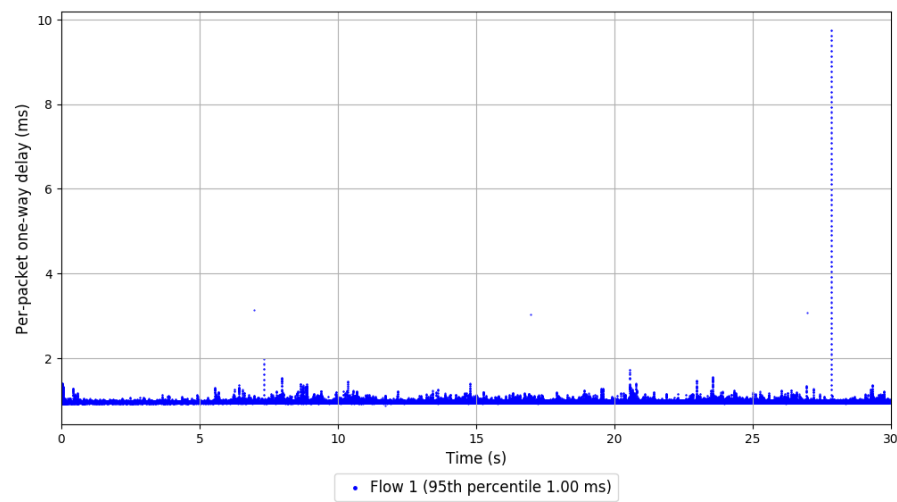
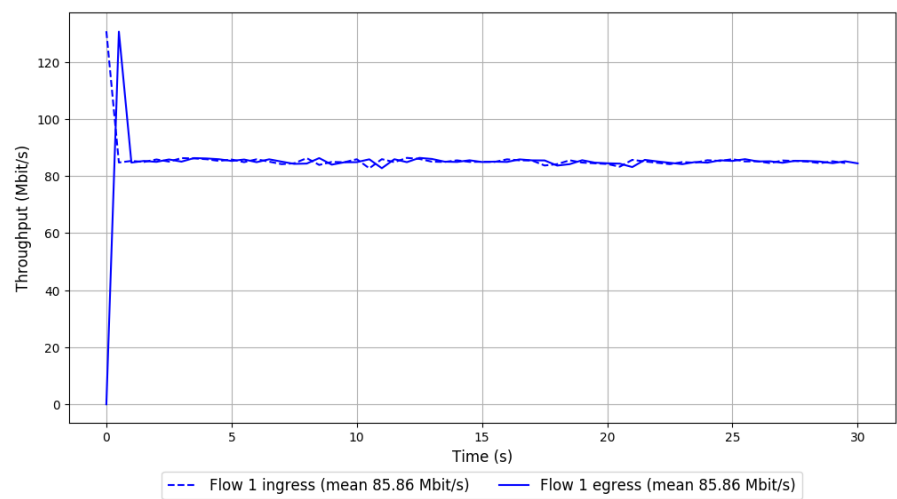


```
Run 1: Statistics of TaoVA-100x

Start at: 2019-03-19 08:56:14
End at: 2019-03-19 08:56:44
Local clock offset: 0.473 ms
Remote clock offset: 0.217 ms

# Below is generated by plot.py at 2019-03-19 12:04:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.86 Mbit/s
95th percentile per-packet one-way delay: 0.996 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 85.86 Mbit/s
95th percentile per-packet one-way delay: 0.996 ms
Loss rate: 0.01%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-03-19 09:26:02

End at: 2019-03-19 09:26:32

Local clock offset: 0.359 ms

Remote clock offset: 0.716 ms

Below is generated by plot.py at 2019-03-19 12:04:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.40 Mbit/s

95th percentile per-packet one-way delay: 1.019 ms

Loss rate: 0.01%

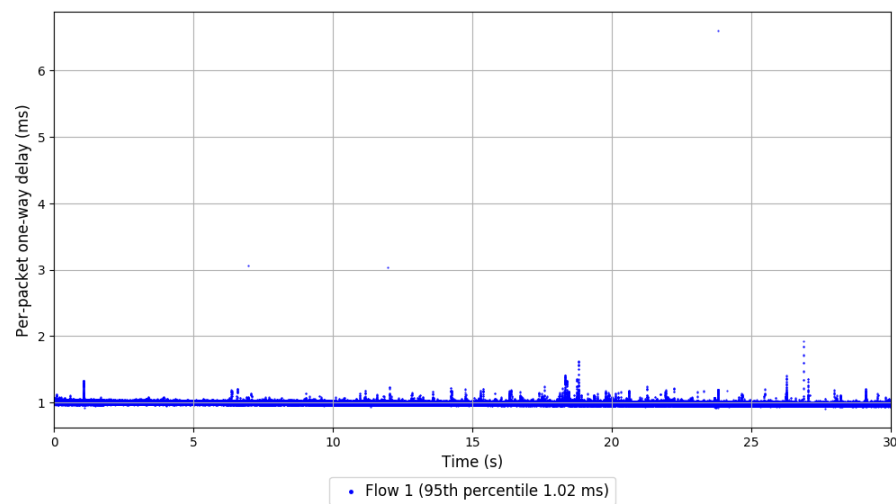
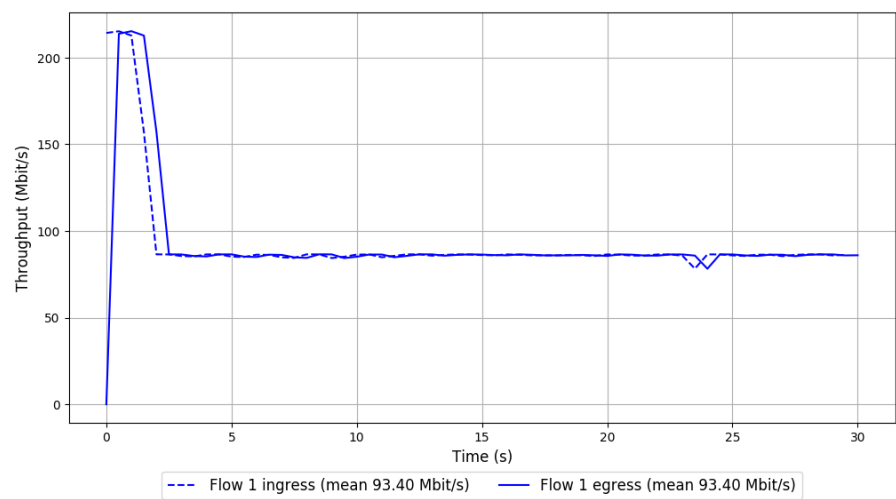
-- Flow 1:

Average throughput: 93.40 Mbit/s

95th percentile per-packet one-way delay: 1.019 ms

Loss rate: 0.01%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-03-19 09:55:53

End at: 2019-03-19 09:56:23

Local clock offset: 0.922 ms

Remote clock offset: 0.633 ms

Below is generated by plot.py at 2019-03-19 12:04:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.24 Mbit/s

95th percentile per-packet one-way delay: 0.976 ms

Loss rate: 0.01%

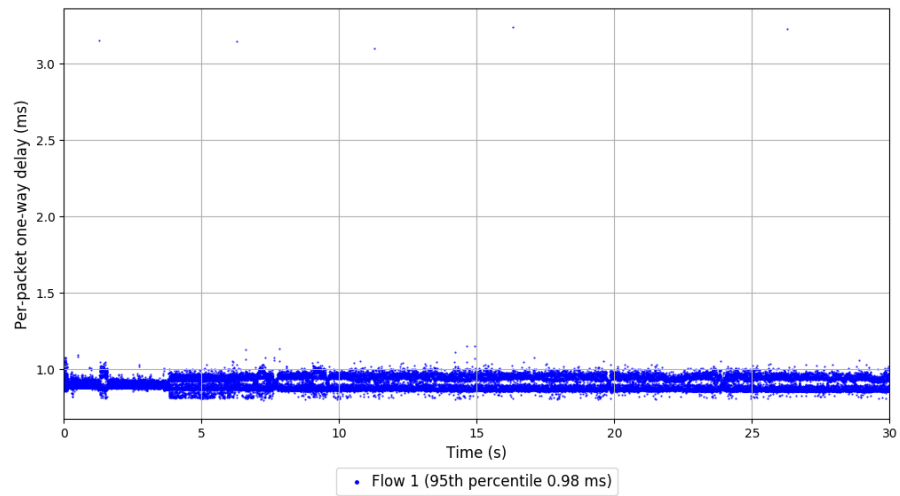
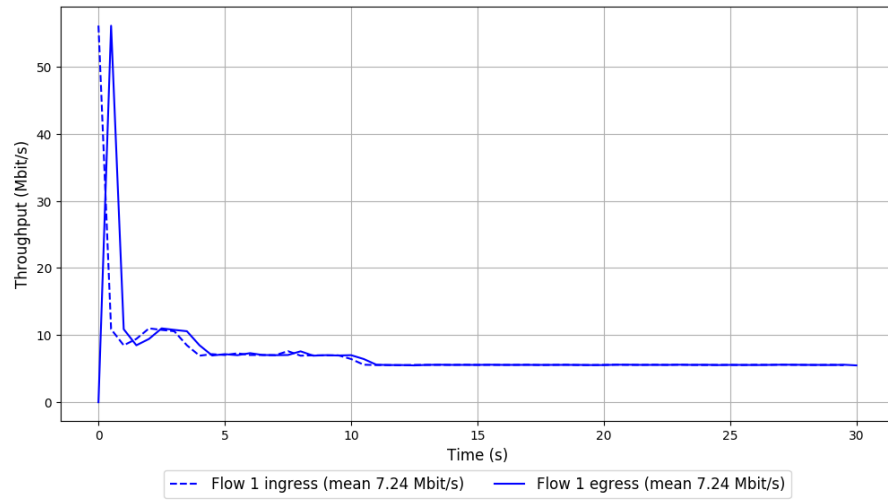
-- Flow 1:

Average throughput: 7.24 Mbit/s

95th percentile per-packet one-way delay: 0.976 ms

Loss rate: 0.01%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-03-19 10:25:45

End at: 2019-03-19 10:26:15

Local clock offset: 0.598 ms

Remote clock offset: -0.034 ms

Below is generated by plot.py at 2019-03-19 12:04:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.27 Mbit/s

95th percentile per-packet one-way delay: 1.074 ms

Loss rate: 0.01%

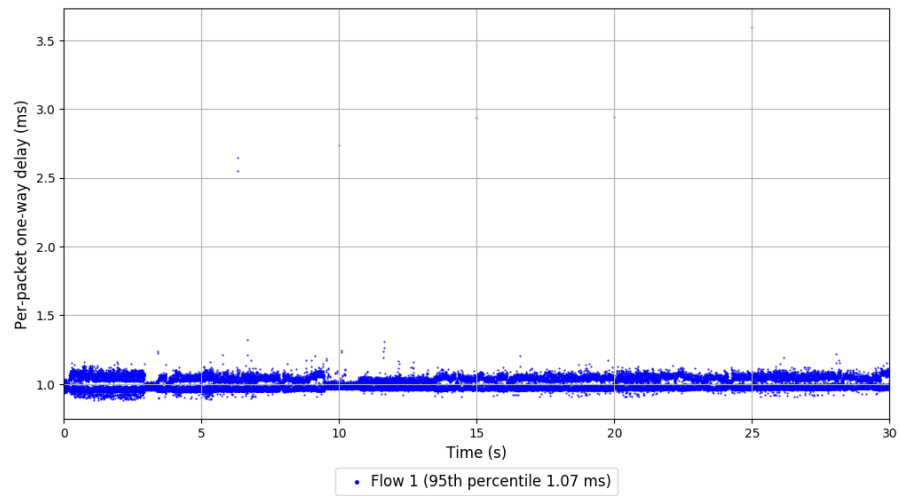
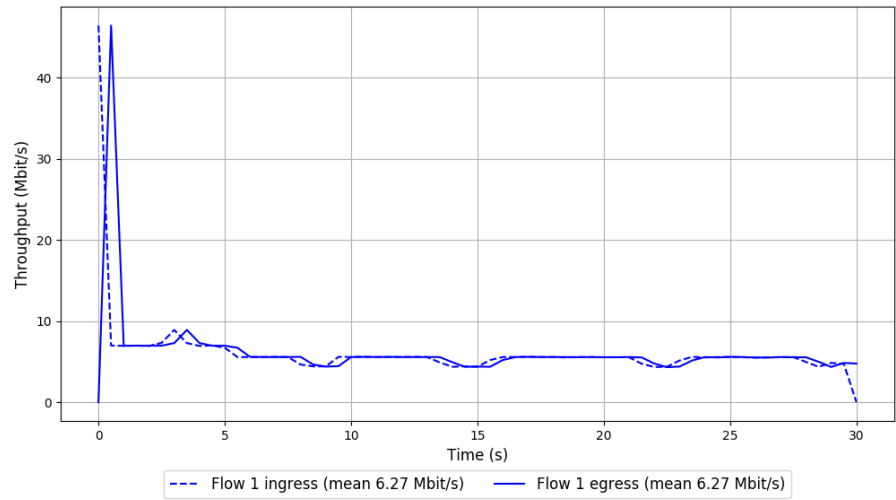
-- Flow 1:

Average throughput: 6.27 Mbit/s

95th percentile per-packet one-way delay: 1.074 ms

Loss rate: 0.01%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-03-19 10:55:35

End at: 2019-03-19 10:56:05

Local clock offset: 0.518 ms

Remote clock offset: 0.148 ms

Below is generated by plot.py at 2019-03-19 12:04:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.67 Mbit/s

95th percentile per-packet one-way delay: 1.033 ms

Loss rate: 0.01%

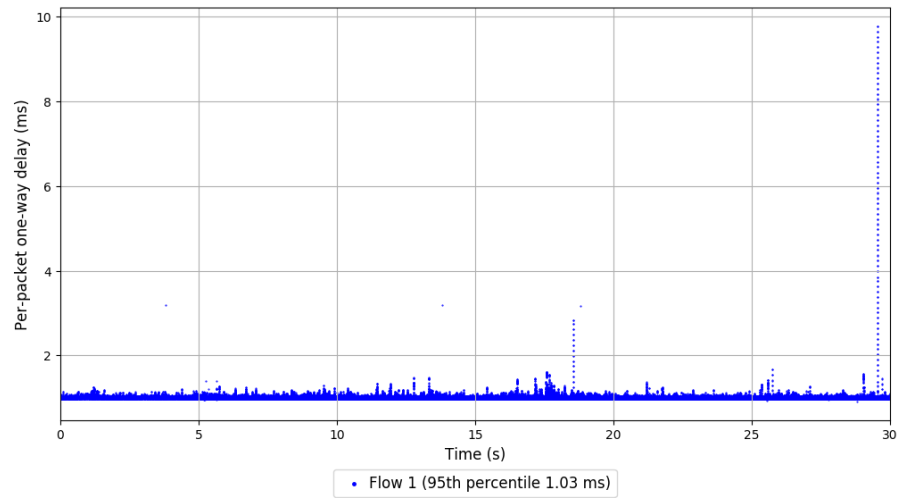
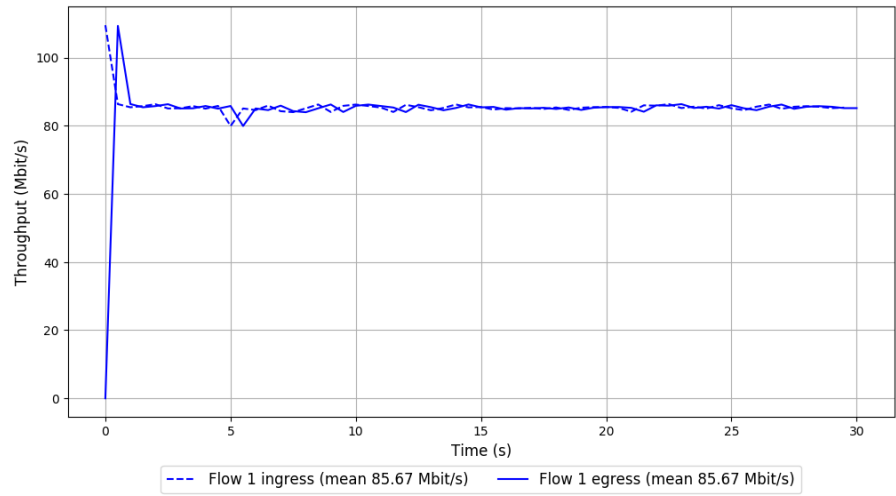
-- Flow 1:

Average throughput: 85.67 Mbit/s

95th percentile per-packet one-way delay: 1.033 ms

Loss rate: 0.01%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-03-19 08:36:13

End at: 2019-03-19 08:36:43

Local clock offset: 0.937 ms

Remote clock offset: -0.1 ms

Below is generated by plot.py at 2019-03-19 12:06:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 268.63 Mbit/s

95th percentile per-packet one-way delay: 1.353 ms

Loss rate: 0.00%

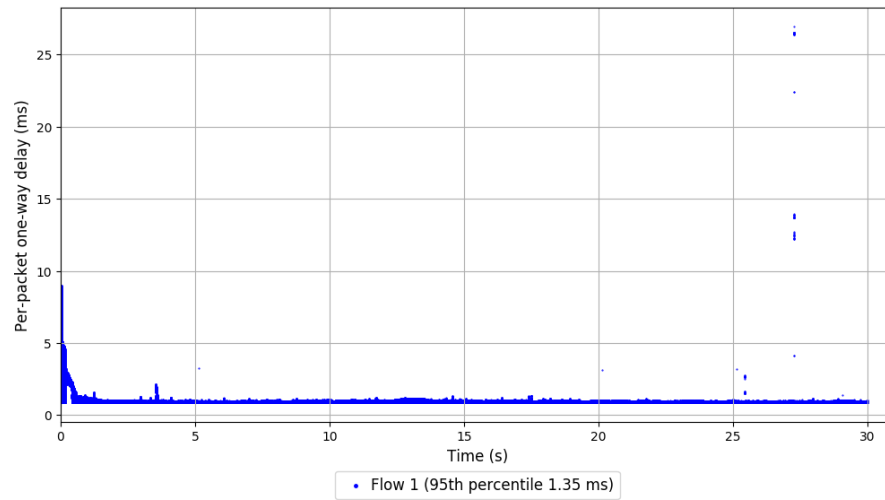
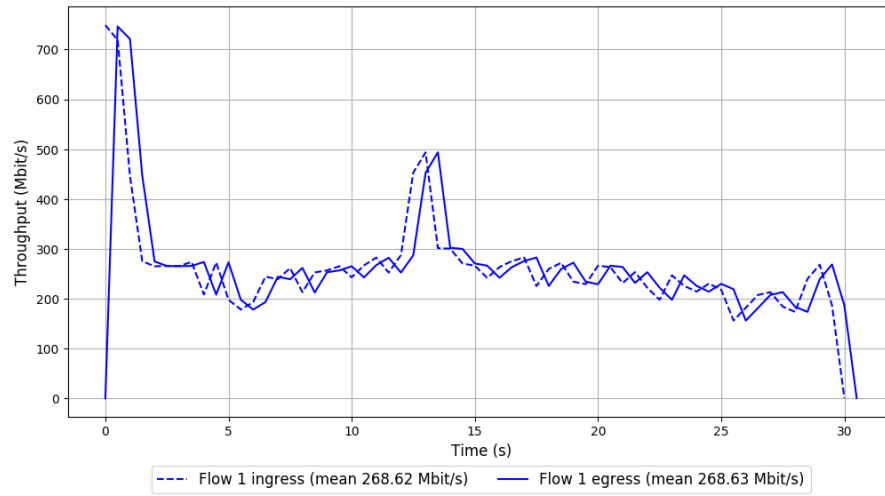
-- Flow 1:

Average throughput: 268.63 Mbit/s

95th percentile per-packet one-way delay: 1.353 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-03-19 09:05:55

End at: 2019-03-19 09:06:25

Local clock offset: 0.271 ms

Remote clock offset: 0.313 ms

Below is generated by plot.py at 2019-03-19 12:06:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.49 Mbit/s

95th percentile per-packet one-way delay: 1.239 ms

Loss rate: 0.01%

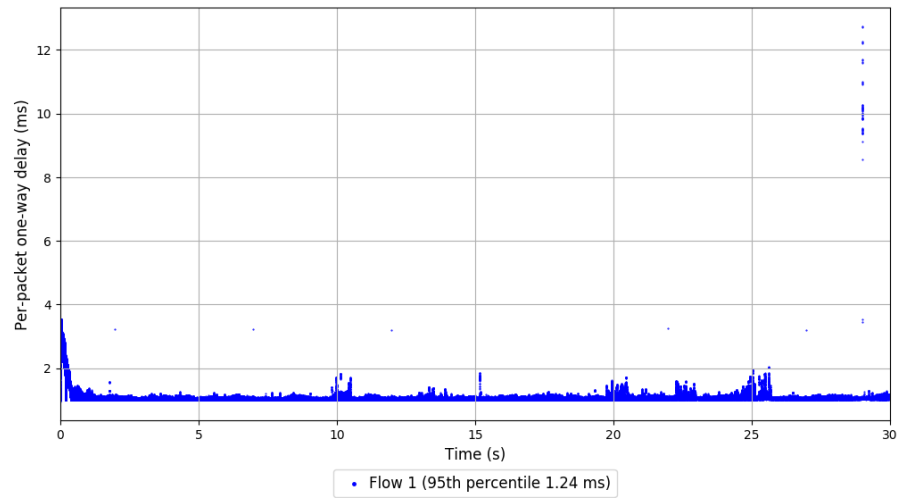
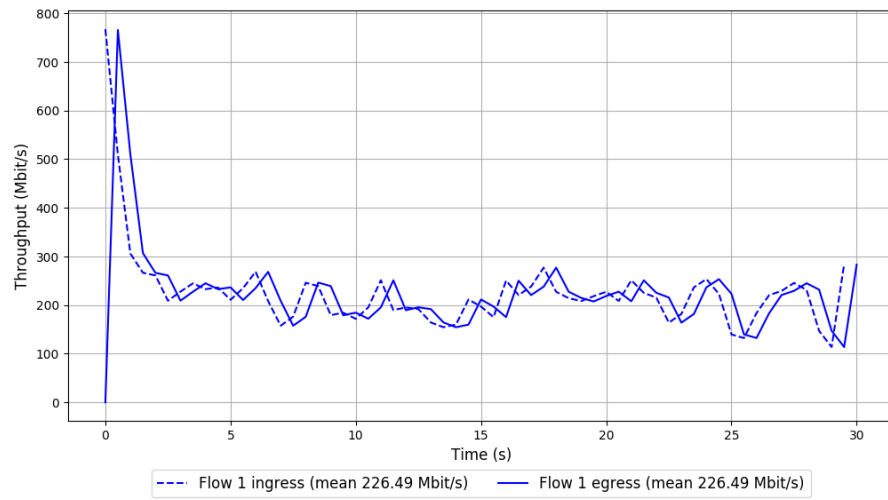
-- Flow 1:

Average throughput: 226.49 Mbit/s

95th percentile per-packet one-way delay: 1.239 ms

Loss rate: 0.01%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-03-19 09:35:48

End at: 2019-03-19 09:36:18

Local clock offset: 0.414 ms

Remote clock offset: 0.436 ms

Below is generated by plot.py at 2019-03-19 12:06:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 238.56 Mbit/s

95th percentile per-packet one-way delay: 1.095 ms

Loss rate: 0.01%

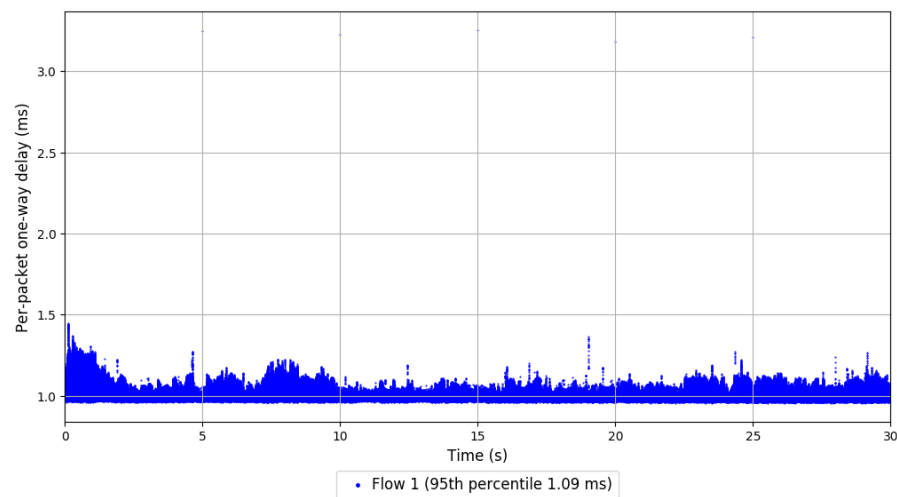
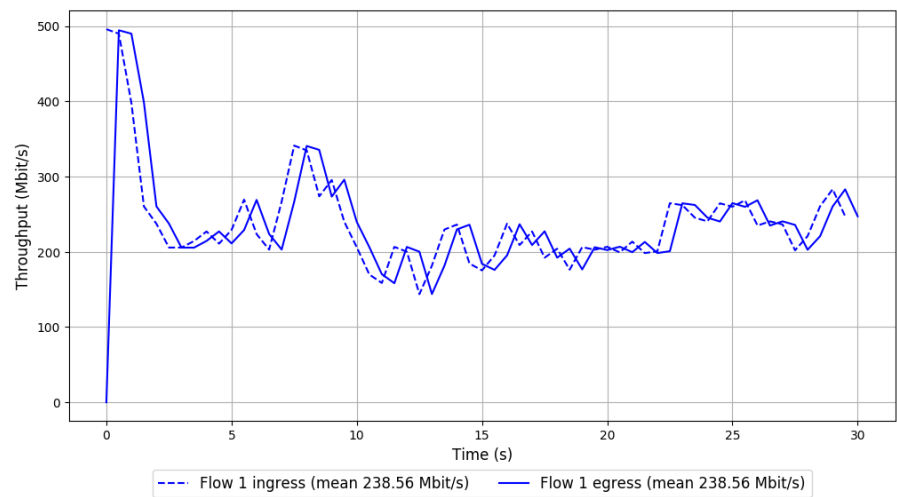
-- Flow 1:

Average throughput: 238.56 Mbit/s

95th percentile per-packet one-way delay: 1.095 ms

Loss rate: 0.01%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-03-19 10:05:32

End at: 2019-03-19 10:06:02

Local clock offset: 1.131 ms

Remote clock offset: 0.225 ms

Below is generated by plot.py at 2019-03-19 12:06:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 232.12 Mbit/s

95th percentile per-packet one-way delay: 1.054 ms

Loss rate: 0.01%

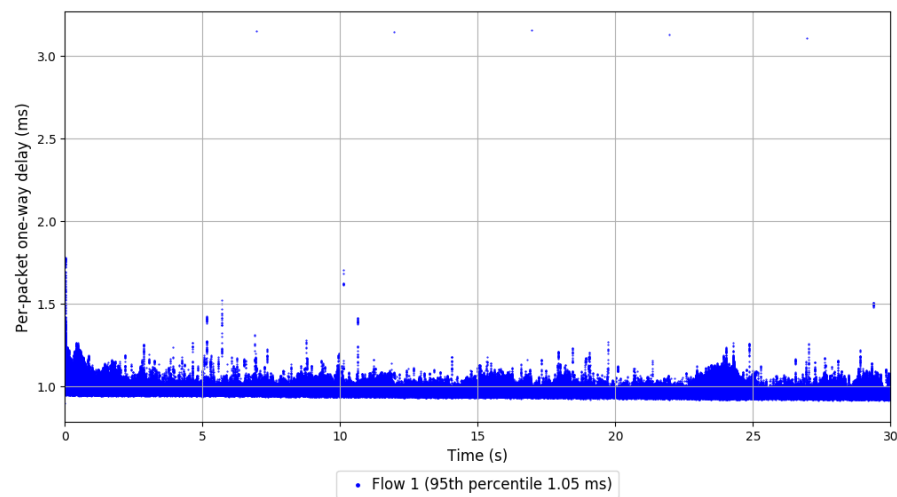
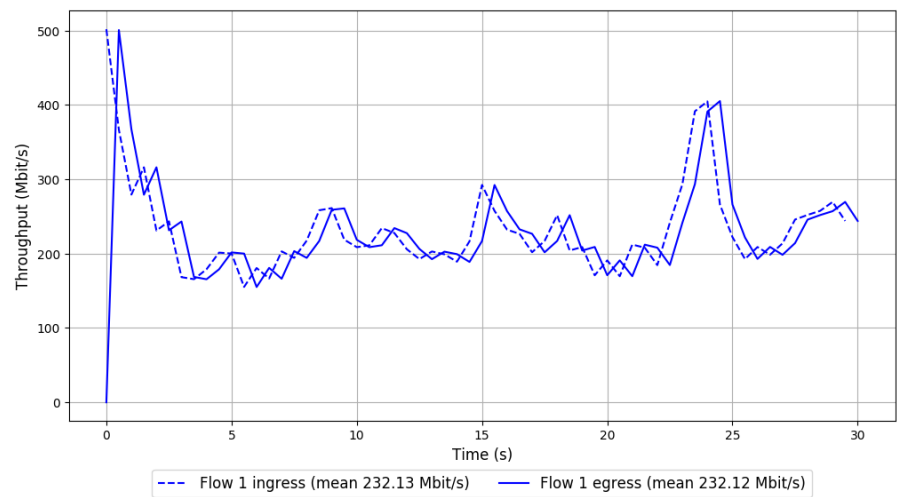
-- Flow 1:

Average throughput: 232.12 Mbit/s

95th percentile per-packet one-way delay: 1.054 ms

Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-03-19 10:35:23

End at: 2019-03-19 10:35:53

Local clock offset: 0.338 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2019-03-19 12:07:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 235.85 Mbit/s

95th percentile per-packet one-way delay: 1.445 ms

Loss rate: 0.01%

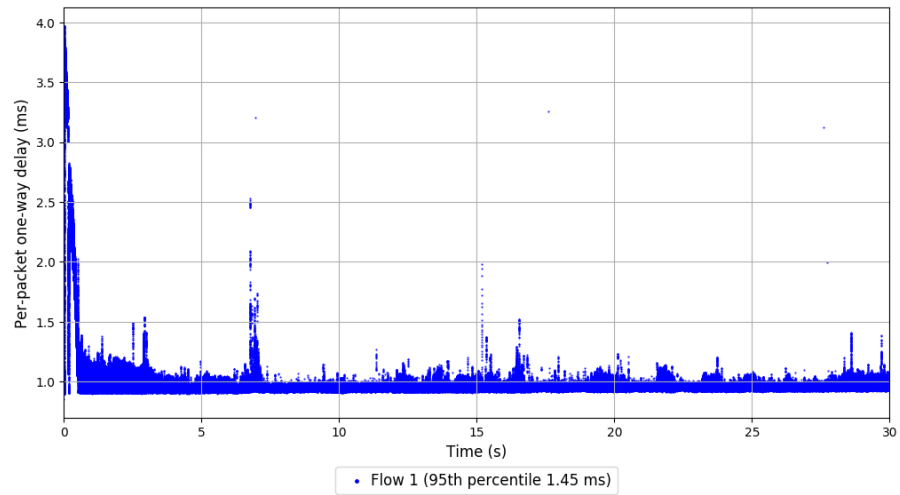
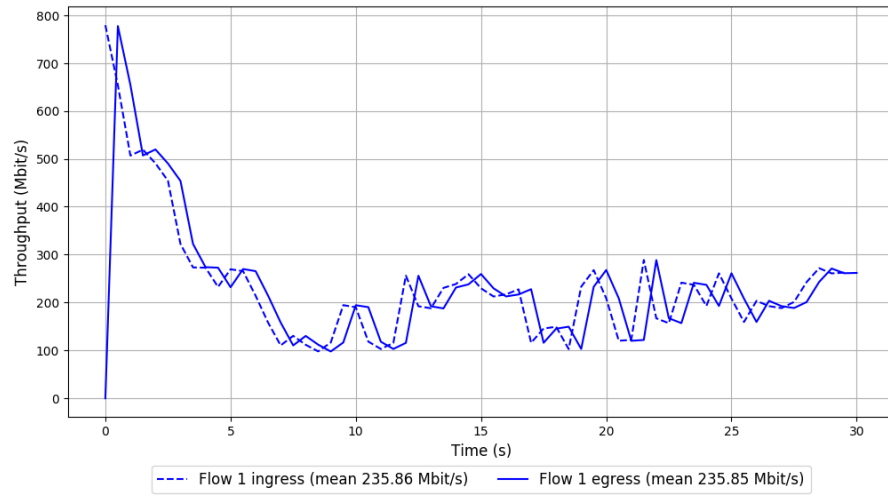
-- Flow 1:

Average throughput: 235.85 Mbit/s

95th percentile per-packet one-way delay: 1.445 ms

Loss rate: 0.01%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-03-19 09:01:32

End at: 2019-03-19 09:02:02

Local clock offset: 0.346 ms

Remote clock offset: 0.241 ms

Below is generated by plot.py at 2019-03-19 12:07:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 277.18 Mbit/s

95th percentile per-packet one-way delay: 2.791 ms

Loss rate: 0.01%

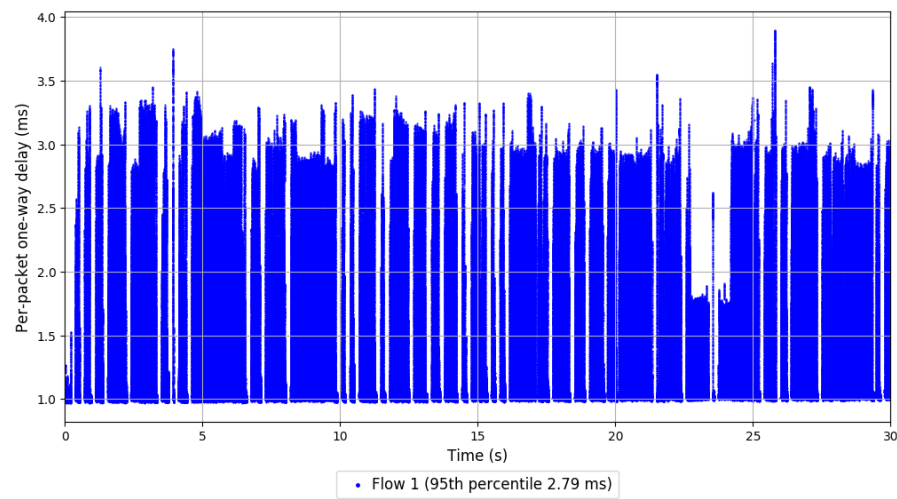
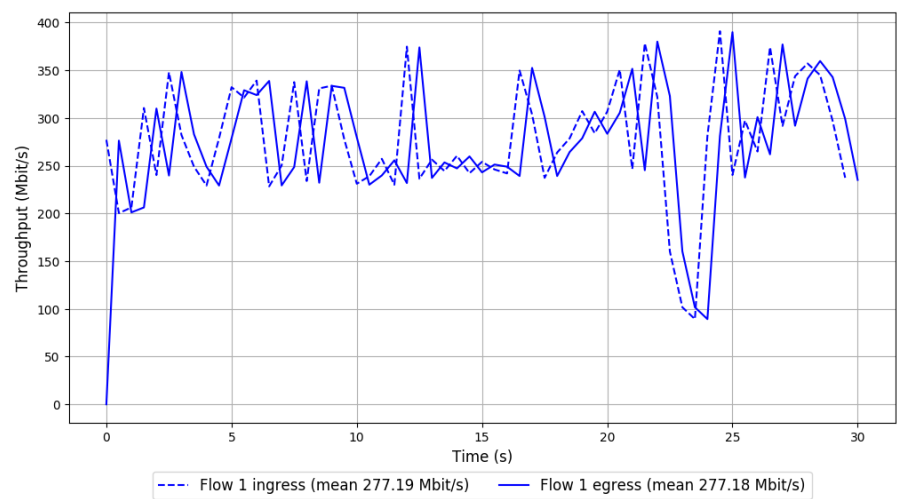
-- Flow 1:

Average throughput: 277.18 Mbit/s

95th percentile per-packet one-way delay: 2.791 ms

Loss rate: 0.01%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-03-19 09:31:24

End at: 2019-03-19 09:31:55

Local clock offset: 0.389 ms

Remote clock offset: 0.484 ms

Below is generated by plot.py at 2019-03-19 12:08:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 299.25 Mbit/s

95th percentile per-packet one-way delay: 2.618 ms

Loss rate: 0.02%

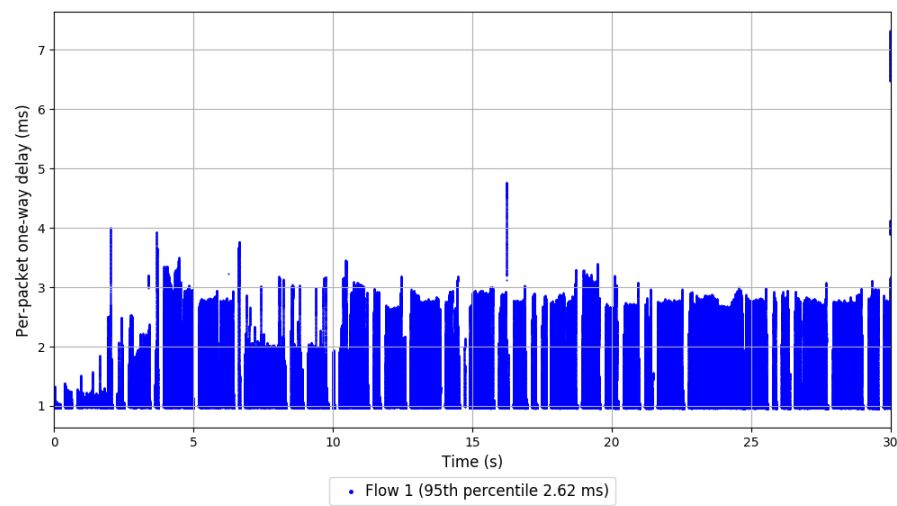
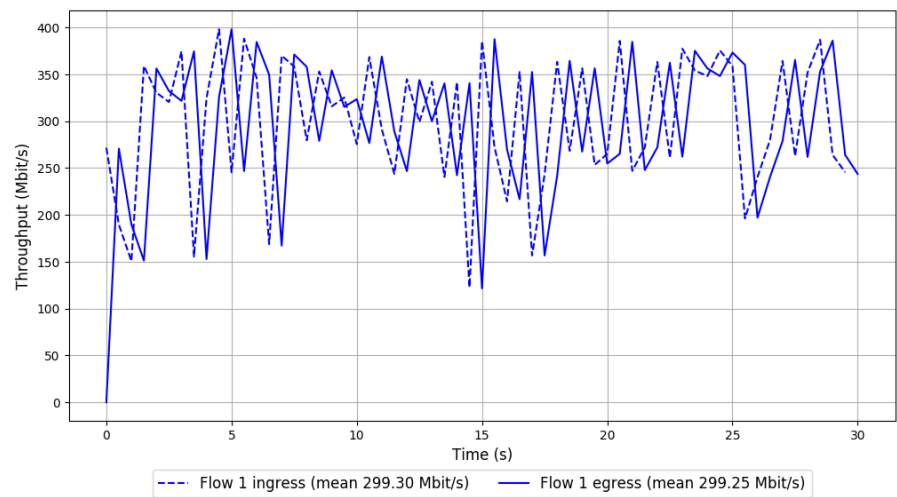
-- Flow 1:

Average throughput: 299.25 Mbit/s

95th percentile per-packet one-way delay: 2.618 ms

Loss rate: 0.02%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-03-19 10:01:08

End at: 2019-03-19 10:01:38

Local clock offset: 1.047 ms

Remote clock offset: 0.498 ms

Below is generated by plot.py at 2019-03-19 12:08:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 315.43 Mbit/s

95th percentile per-packet one-way delay: 2.454 ms

Loss rate: 0.02%

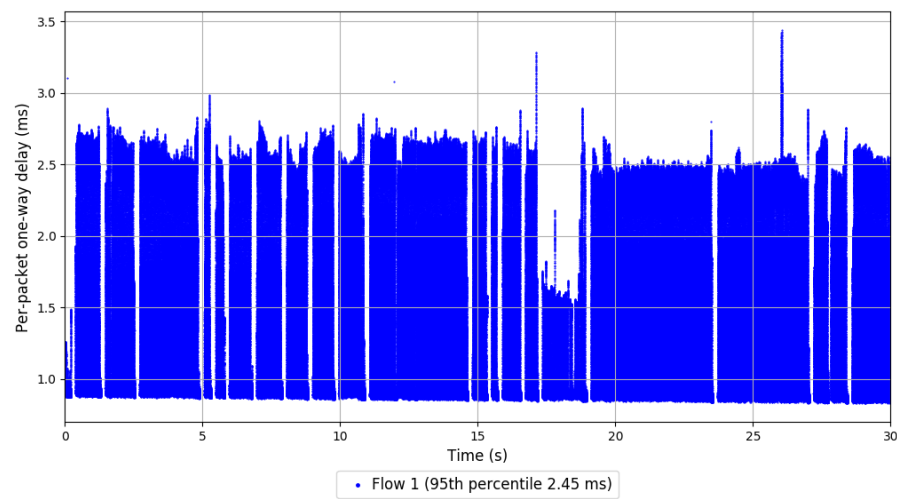
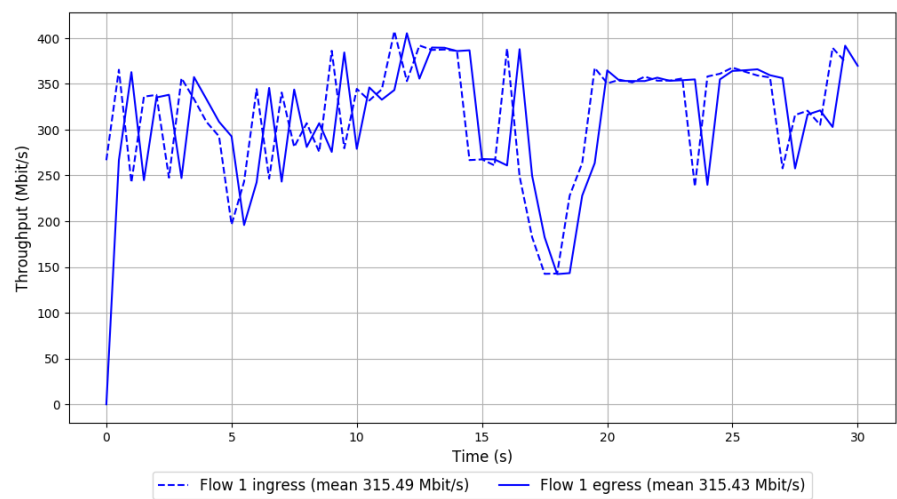
-- Flow 1:

Average throughput: 315.43 Mbit/s

95th percentile per-packet one-way delay: 2.454 ms

Loss rate: 0.02%

Run 3: Report of Verus — Data Link

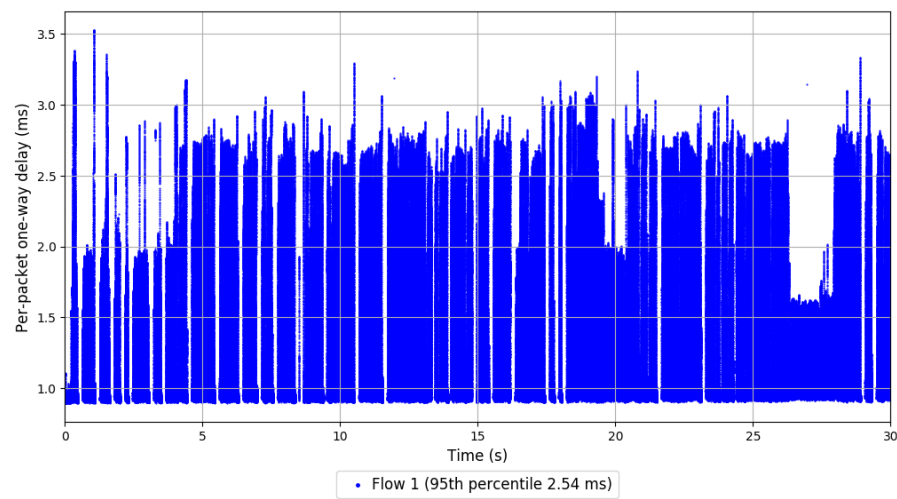
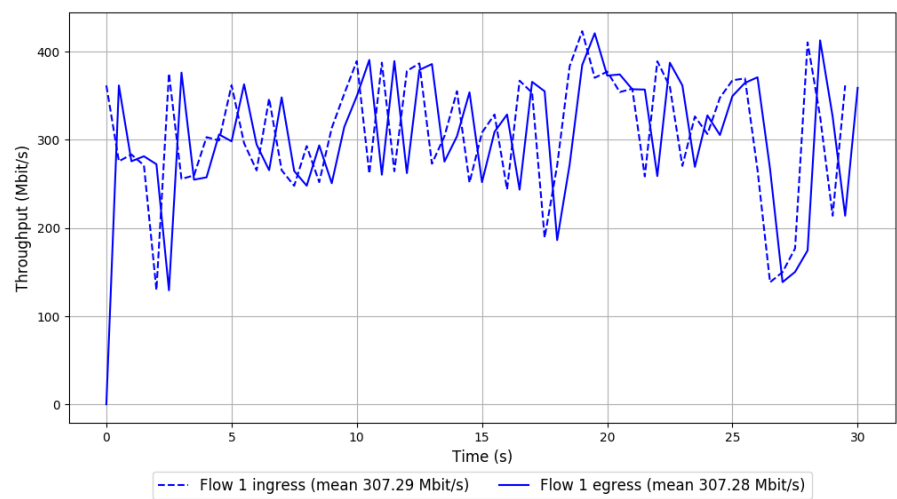


Run 4: Statistics of Verus

Start at: 2019-03-19 10:30:58
End at: 2019-03-19 10:31:28
Local clock offset: 0.433 ms
Remote clock offset: -0.038 ms

Below is generated by plot.py at 2019-03-19 12:09:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 307.28 Mbit/s
95th percentile per-packet one-way delay: 2.536 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 307.28 Mbit/s
95th percentile per-packet one-way delay: 2.536 ms
Loss rate: 0.01%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-03-19 11:00:36

End at: 2019-03-19 11:01:06

Local clock offset: 0.588 ms

Remote clock offset: 0.172 ms

Below is generated by plot.py at 2019-03-19 12:09:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 306.79 Mbit/s

95th percentile per-packet one-way delay: 2.481 ms

Loss rate: 0.00%

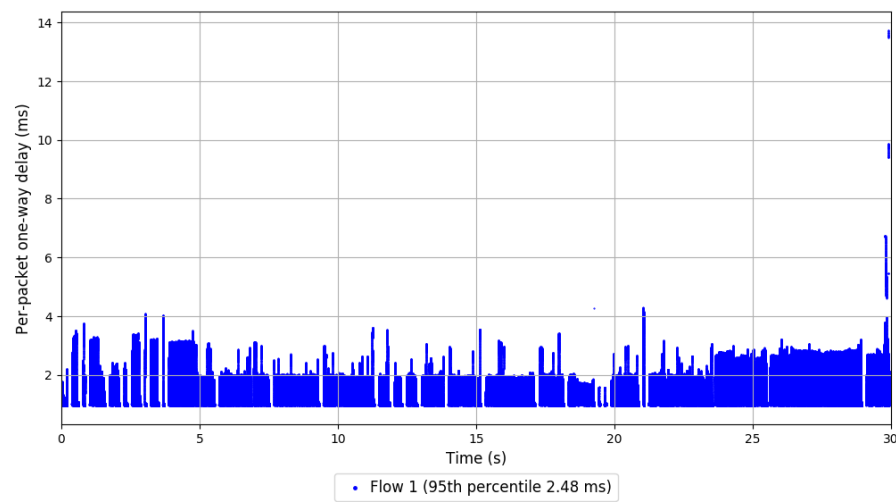
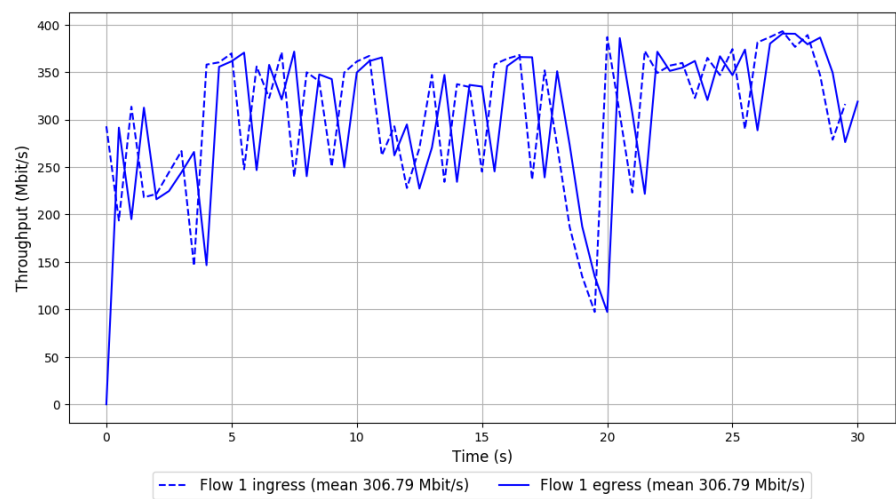
-- Flow 1:

Average throughput: 306.79 Mbit/s

95th percentile per-packet one-way delay: 2.481 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link

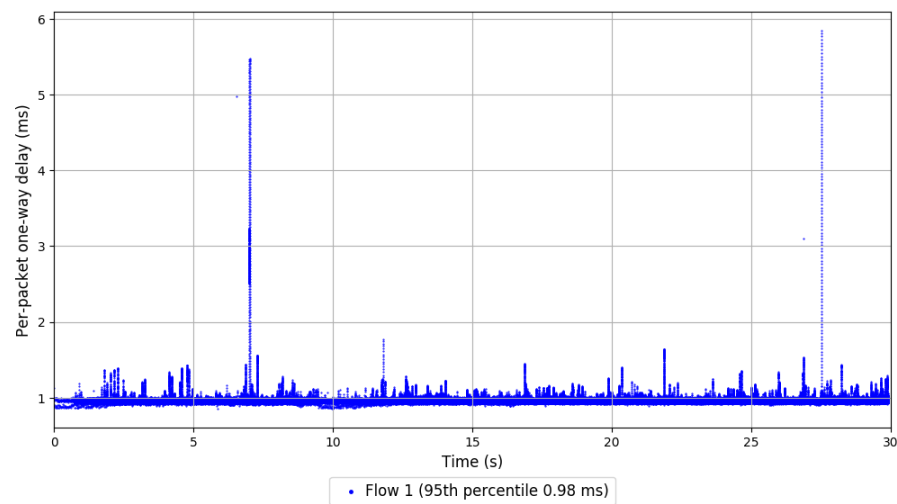
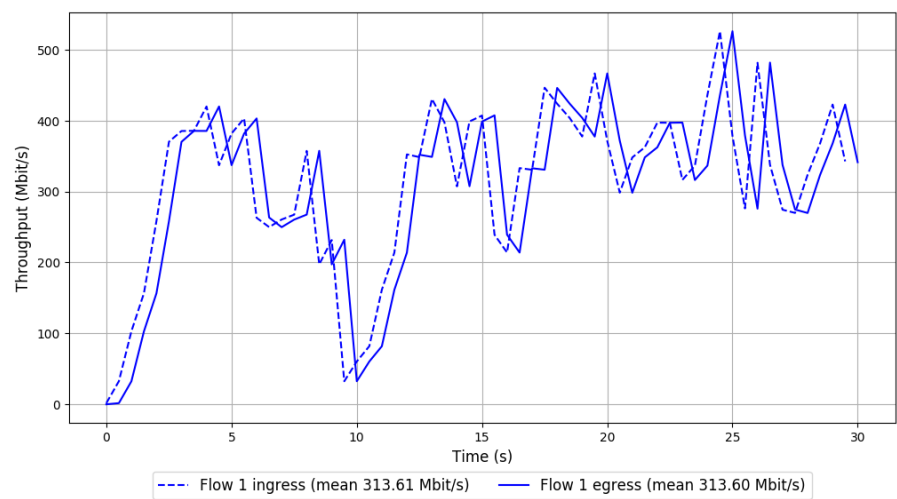


Run 1: Statistics of PCC-Vivace

Start at: 2019-03-19 08:38:49
End at: 2019-03-19 08:39:19
Local clock offset: 0.958 ms
Remote clock offset: -0.109 ms

Below is generated by plot.py at 2019-03-19 12:09:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 313.60 Mbit/s
95th percentile per-packet one-way delay: 0.981 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 313.60 Mbit/s
95th percentile per-packet one-way delay: 0.981 ms
Loss rate: 0.01%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-03-19 09:08:30

End at: 2019-03-19 09:09:00

Local clock offset: 0.217 ms

Remote clock offset: 0.376 ms

Below is generated by plot.py at 2019-03-19 12:09:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 259.52 Mbit/s

95th percentile per-packet one-way delay: 1.021 ms

Loss rate: 0.01%

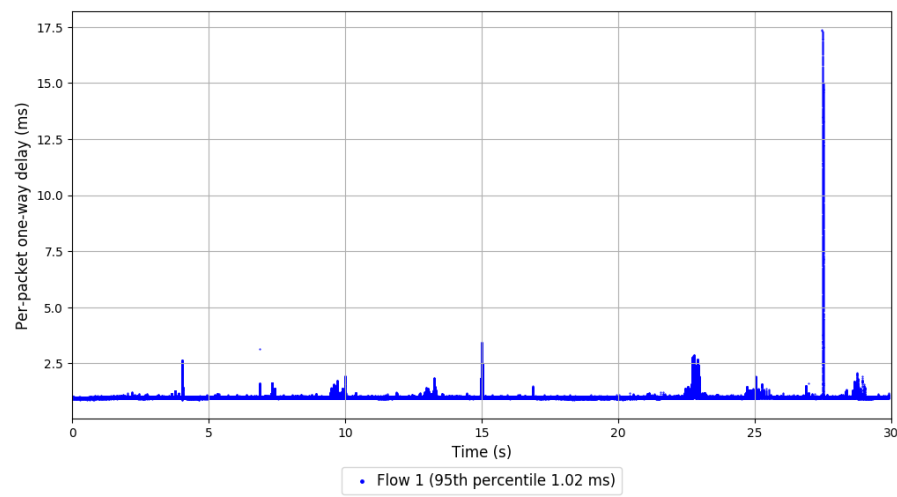
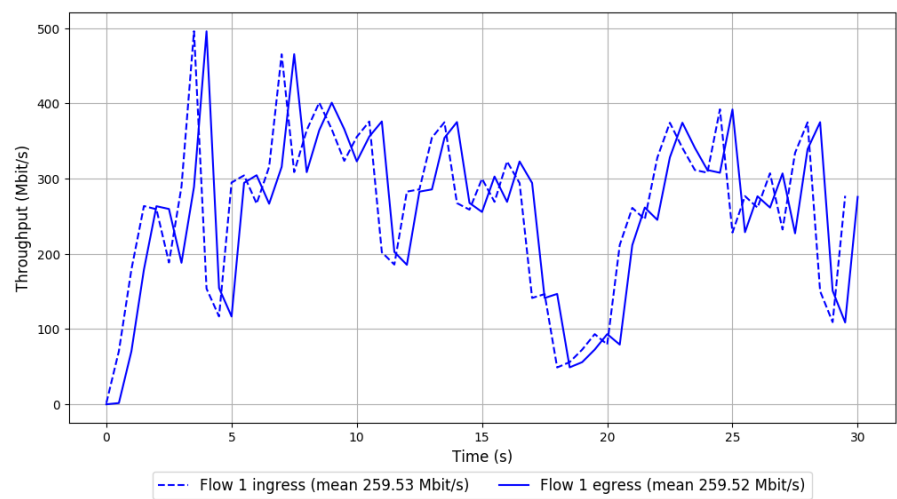
-- Flow 1:

Average throughput: 259.52 Mbit/s

95th percentile per-packet one-way delay: 1.021 ms

Loss rate: 0.01%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-03-19 09:38:23

End at: 2019-03-19 09:38:53

Local clock offset: 0.414 ms

Remote clock offset: 0.404 ms

Below is generated by plot.py at 2019-03-19 12:09:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 305.22 Mbit/s

95th percentile per-packet one-way delay: 1.033 ms

Loss rate: 0.01%

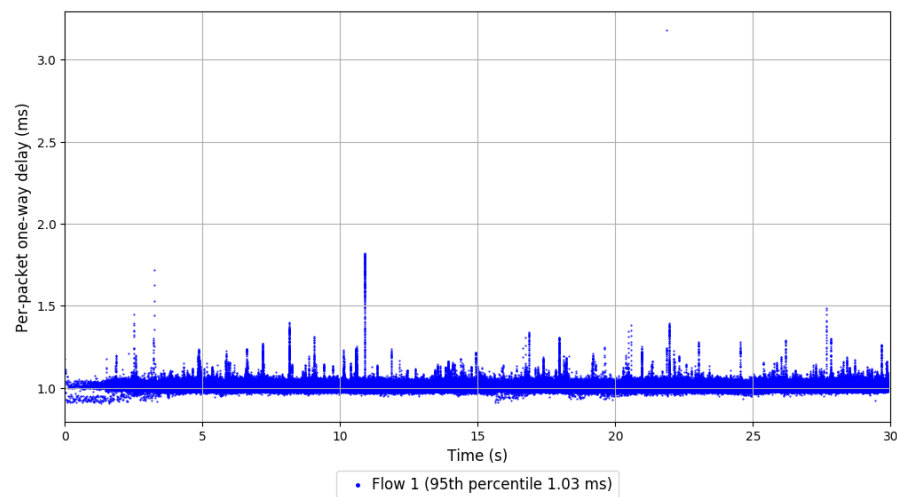
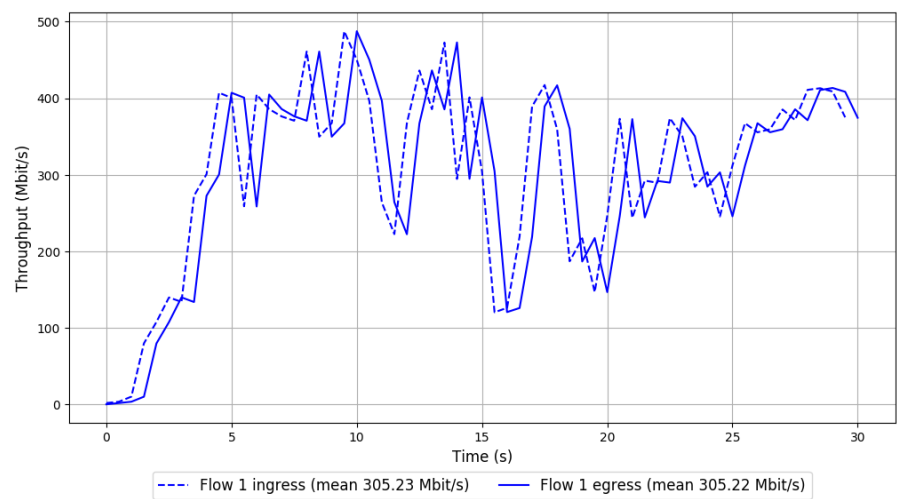
-- Flow 1:

Average throughput: 305.22 Mbit/s

95th percentile per-packet one-way delay: 1.033 ms

Loss rate: 0.01%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-03-19 10:08:07

End at: 2019-03-19 10:08:37

Local clock offset: 1.172 ms

Remote clock offset: 0.155 ms

Below is generated by plot.py at 2019-03-19 12:10:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 346.83 Mbit/s

95th percentile per-packet one-way delay: 0.974 ms

Loss rate: 0.00%

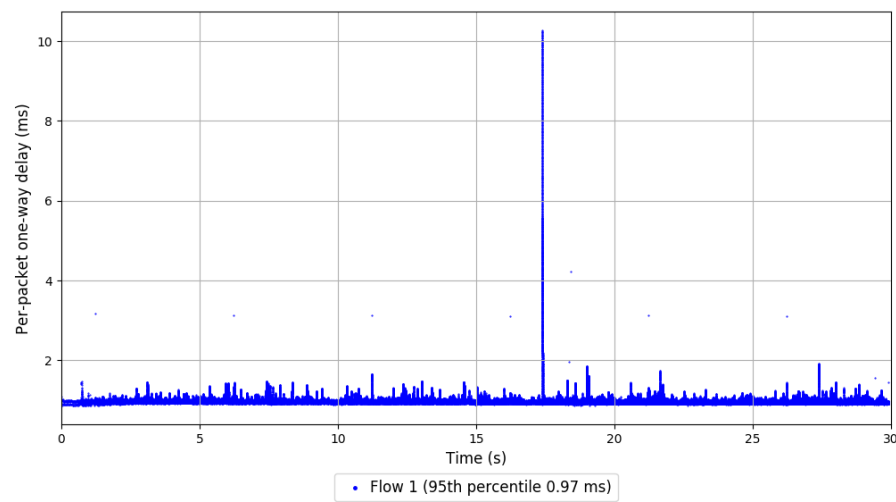
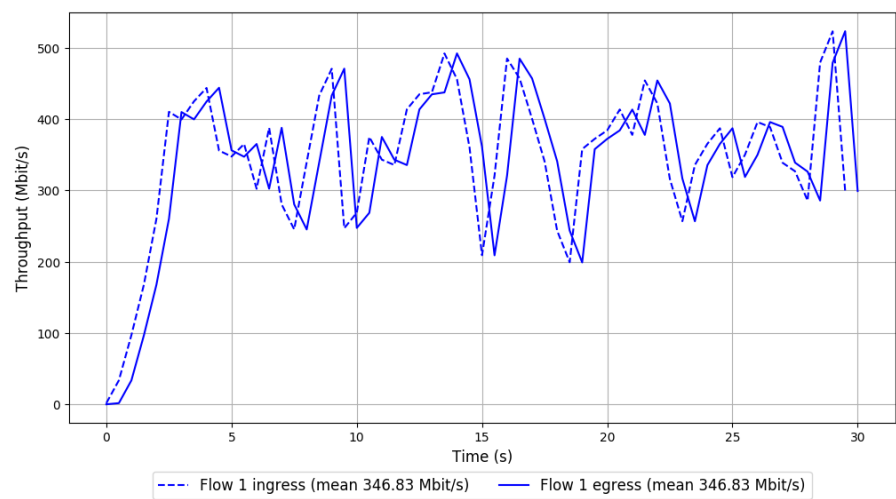
-- Flow 1:

Average throughput: 346.83 Mbit/s

95th percentile per-packet one-way delay: 0.974 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-03-19 10:37:58

End at: 2019-03-19 10:38:28

Local clock offset: 0.304 ms

Remote clock offset: 0.075 ms

Below is generated by plot.py at 2019-03-19 12:10:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 352.13 Mbit/s

95th percentile per-packet one-way delay: 0.957 ms

Loss rate: 0.01%

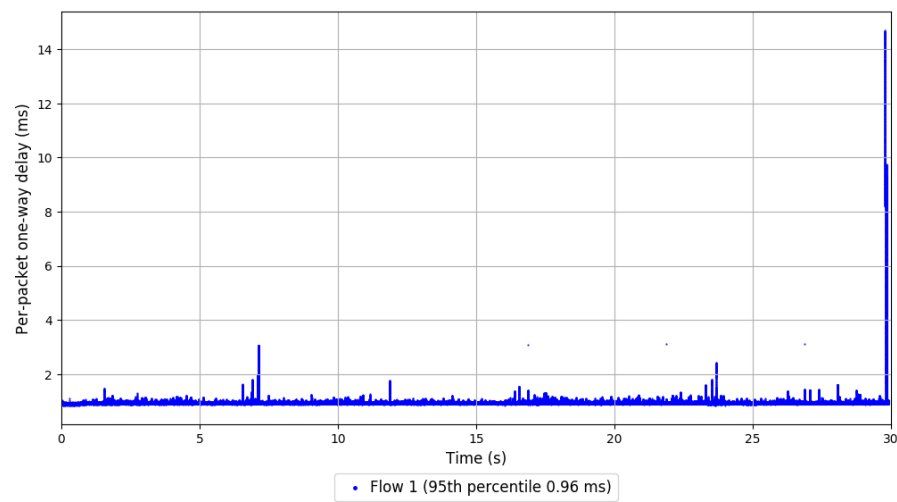
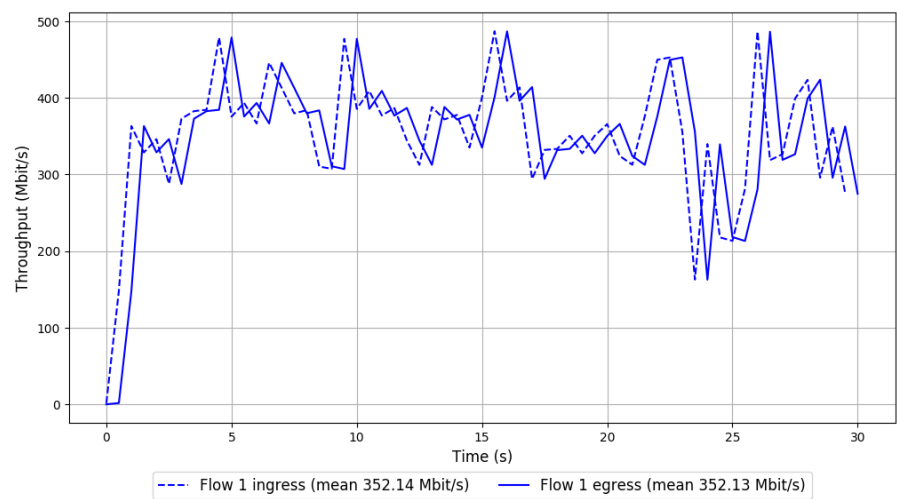
-- Flow 1:

Average throughput: 352.13 Mbit/s

95th percentile per-packet one-way delay: 0.957 ms

Loss rate: 0.01%

Run 5: Report of PCC-Vivace — Data Link

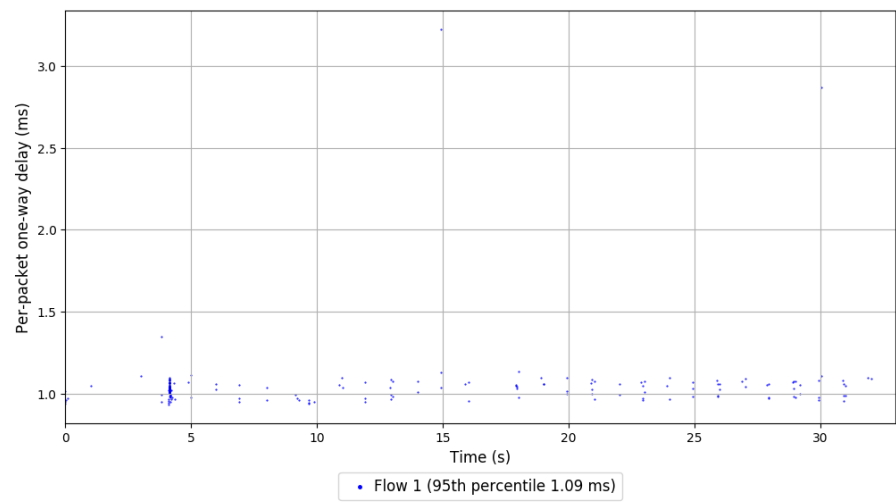
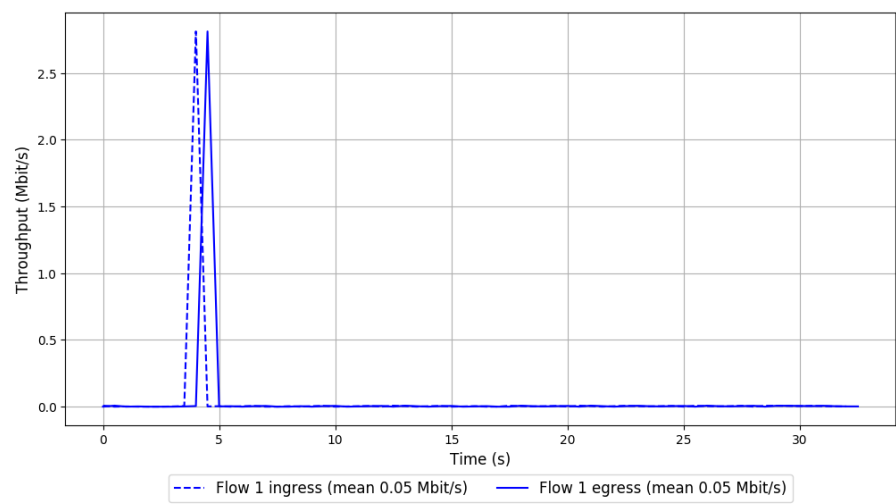


```
Run 1: Statistics of WebRTC media

Start at: 2019-03-19 08:58:48
End at: 2019-03-19 08:59:18
Local clock offset: 0.408 ms
Remote clock offset: 0.19 ms

# Below is generated by plot.py at 2019-03-19 12:10:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.095 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.095 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-03-19 09:28:37

End at: 2019-03-19 09:29:07

Local clock offset: 0.375 ms

Remote clock offset: 0.597 ms

Below is generated by plot.py at 2019-03-19 12:10:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.087 ms

Loss rate: 0.00%

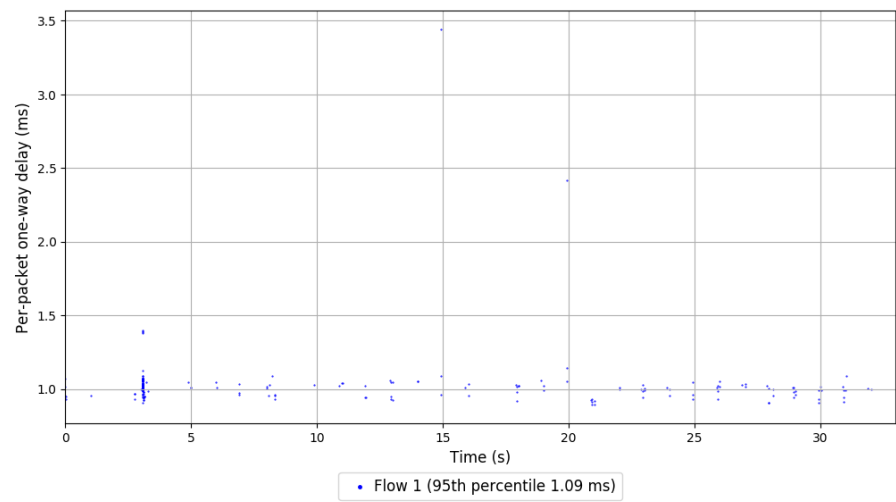
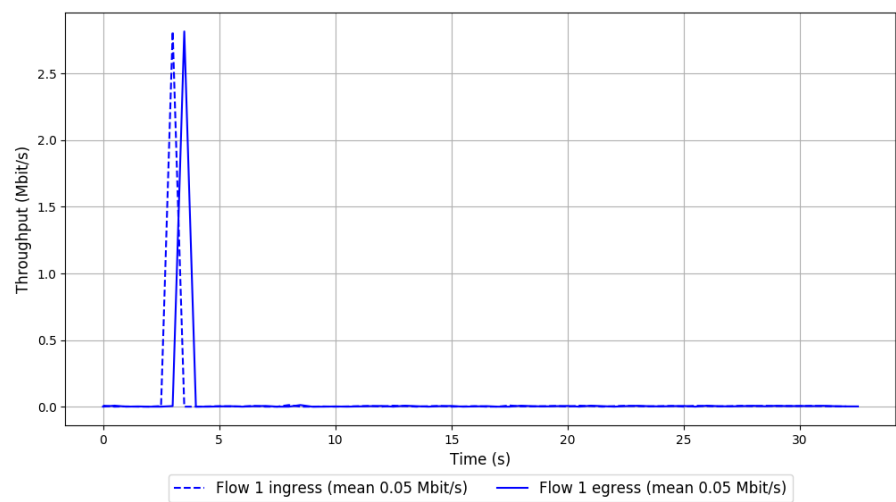
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.087 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-03-19 09:58:23

End at: 2019-03-19 09:58:53

Local clock offset: 0.991 ms

Remote clock offset: 0.537 ms

Below is generated by plot.py at 2019-03-19 12:10:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.108 ms

Loss rate: 0.00%

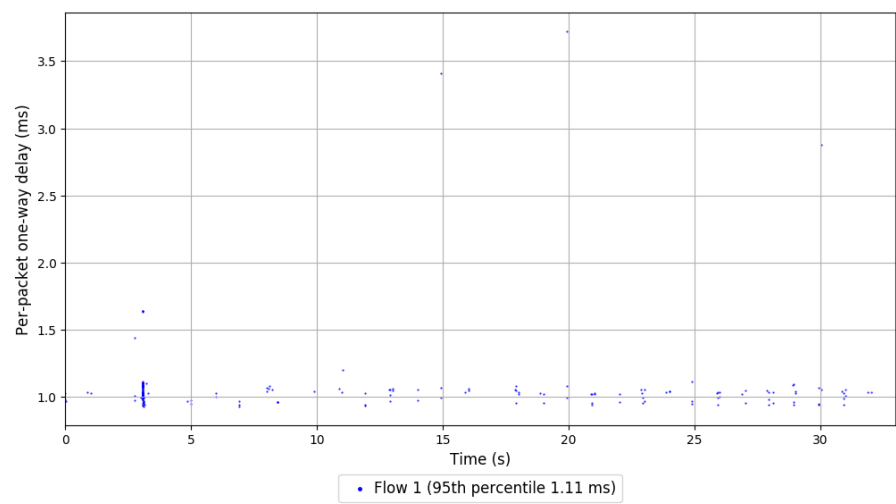
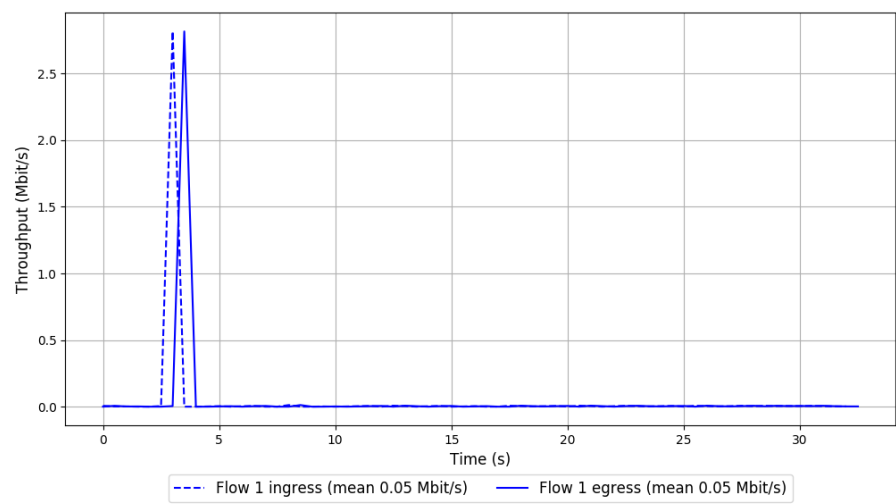
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.108 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

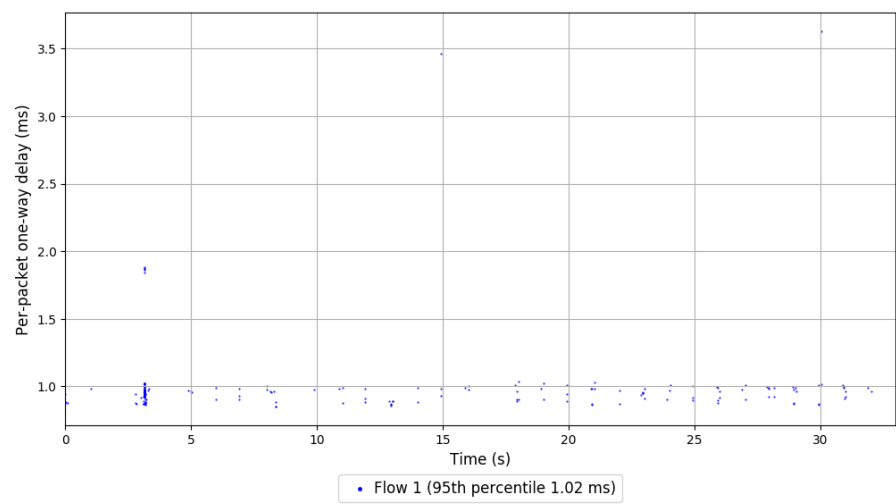
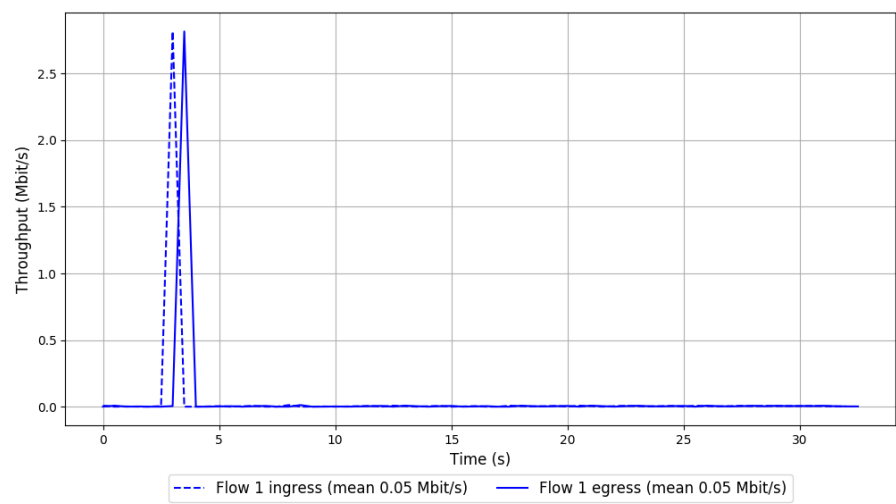


Run 4: Statistics of WebRTC media

Start at: 2019-03-19 10:28:15
End at: 2019-03-19 10:28:45
Local clock offset: 0.51 ms
Remote clock offset: -0.024 ms

Below is generated by plot.py at 2019-03-19 12:10:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.021 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.021 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-03-19 10:58:10

End at: 2019-03-19 10:58:40

Local clock offset: 0.56 ms

Remote clock offset: 0.174 ms

Below is generated by plot.py at 2019-03-19 12:10:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.065 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.065 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

