

Pantheon Report

Generated at 2019-03-09 11:08:22 (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:

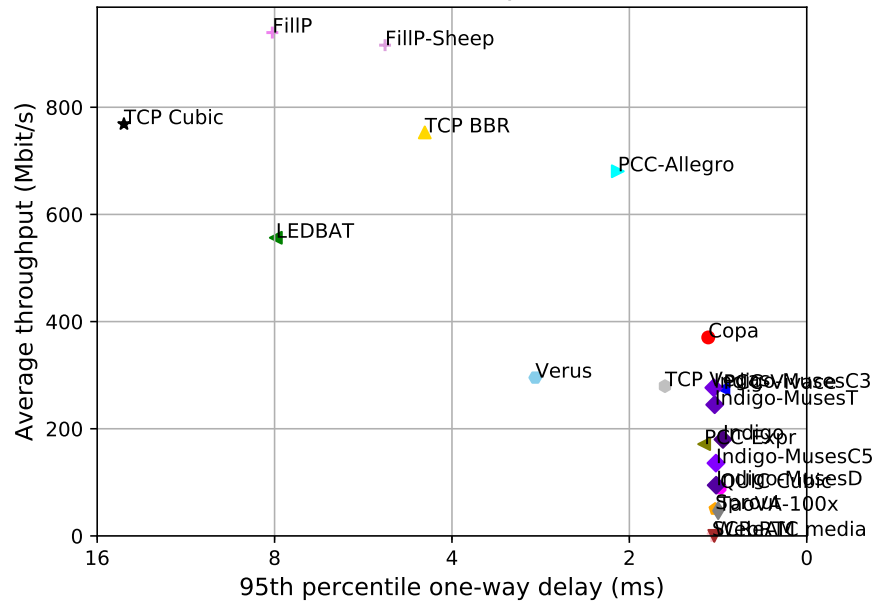
```
Linux 4.15.0-1031-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

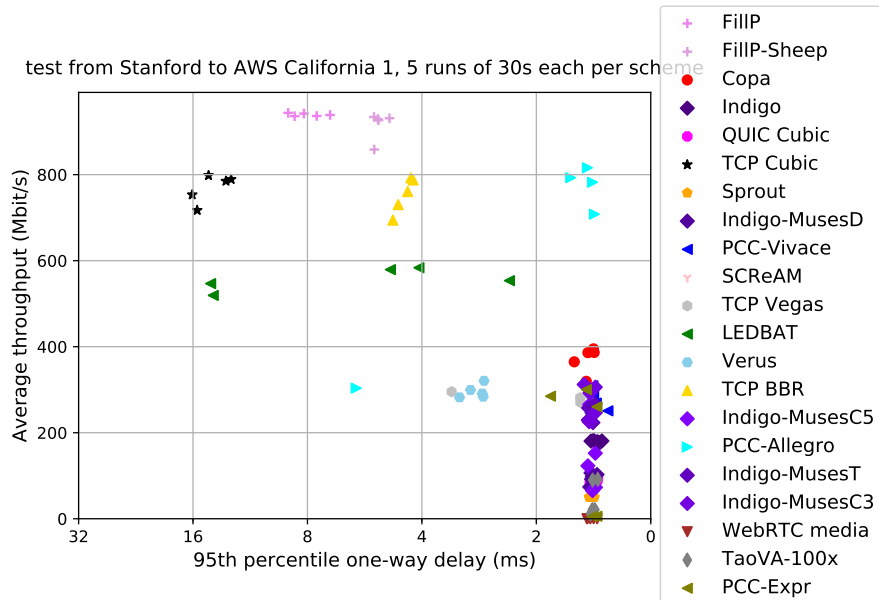
```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d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

third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from 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	753.06	4.45	0.02
Copa	5	370.42	1.11	0.01
TCP Cubic	5	768.56	14.41	0.04
FillP	5	939.36	8.07	0.01
FillP-Sheep	5	915.88	5.20	0.01
Indigo	5	180.04	0.94	0.01
Indigo-MusesC3	5	276.63	1.05	0.01
Indigo-MusesC5	5	135.87	1.02	0.00
Indigo-MusesD	5	94.66	1.02	0.01
Indigo-MusesT	5	244.86	1.04	0.01
LEDBAT	5	556.48	7.96	0.02
PCC-Allegro	5	680.52	2.09	0.01
PCC-Expr	5	171.35	1.16	0.01
QUIC Cubic	5	89.66	0.98	0.01
SCReAM	5	0.22	1.07	0.03
Sprout	5	50.25	1.03	0.01
TaoVA-100x	5	47.09	1.00	0.00
TCP Vegas	5	279.50	1.60	0.01
Verus	5	295.46	2.89	0.01
PCC-Vivace	5	274.60	0.94	0.00
WebRTC media	5	0.05	1.04	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-03-09 07:51:26

End at: 2019-03-09 07:51:56

Local clock offset: 0.28 ms

Remote clock offset: 2.646 ms

Below is generated by plot.py at 2019-03-09 10:18:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 694.21 Mbit/s

95th percentile per-packet one-way delay: 4.768 ms

Loss rate: 0.02%

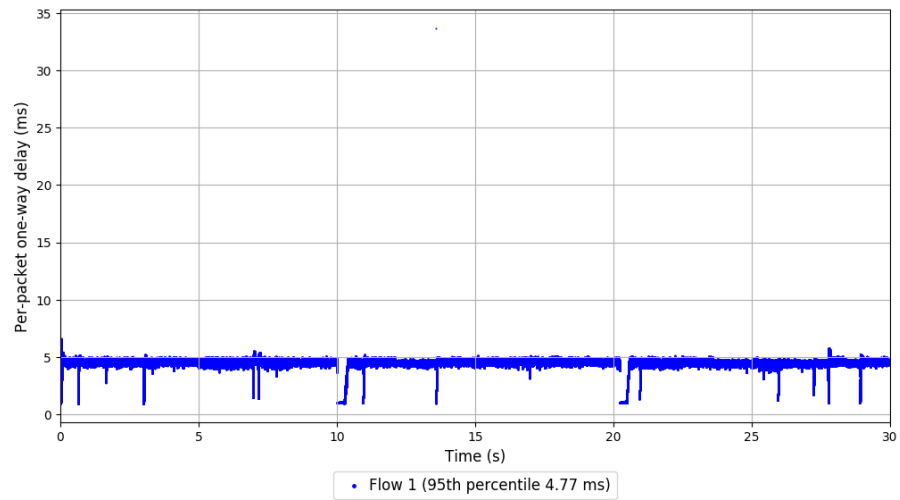
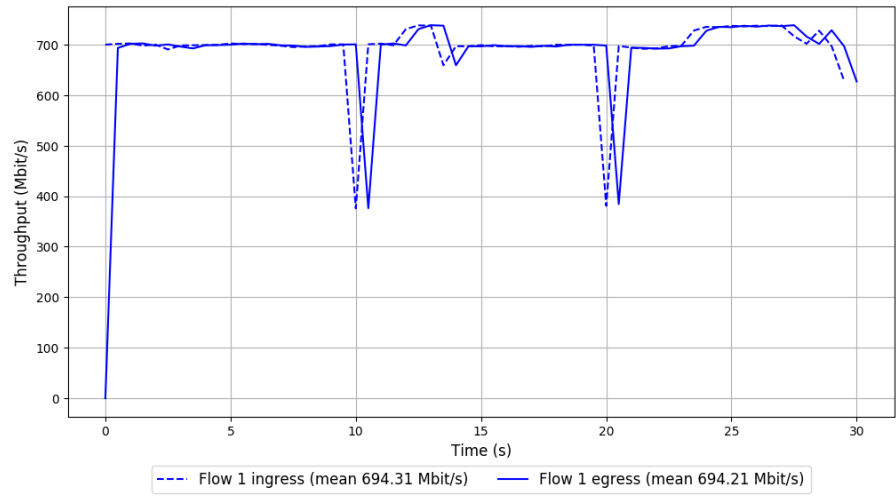
-- Flow 1:

Average throughput: 694.21 Mbit/s

95th percentile per-packet one-way delay: 4.768 ms

Loss rate: 0.02%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-03-09 08:20:45

End at: 2019-03-09 08:21:15

Local clock offset: 0.317 ms

Remote clock offset: 2.839 ms

Below is generated by plot.py at 2019-03-09 10:19:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 760.72 Mbit/s

95th percentile per-packet one-way delay: 4.361 ms

Loss rate: 0.02%

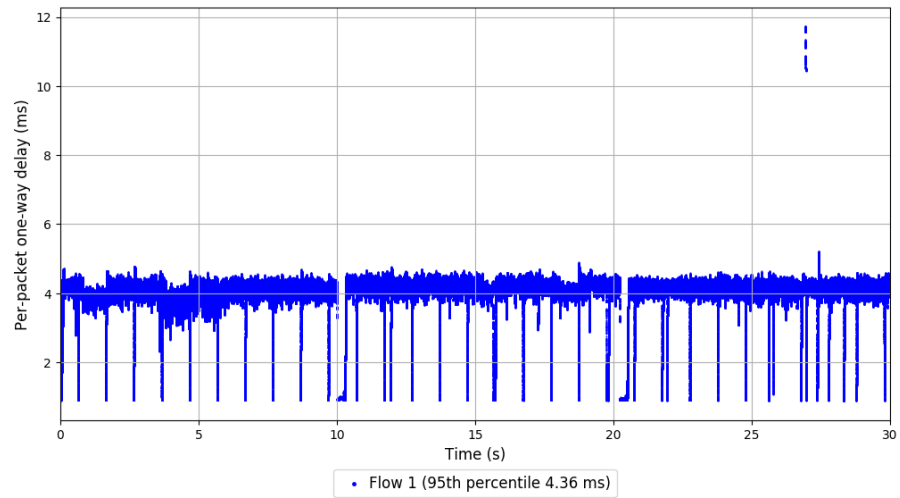
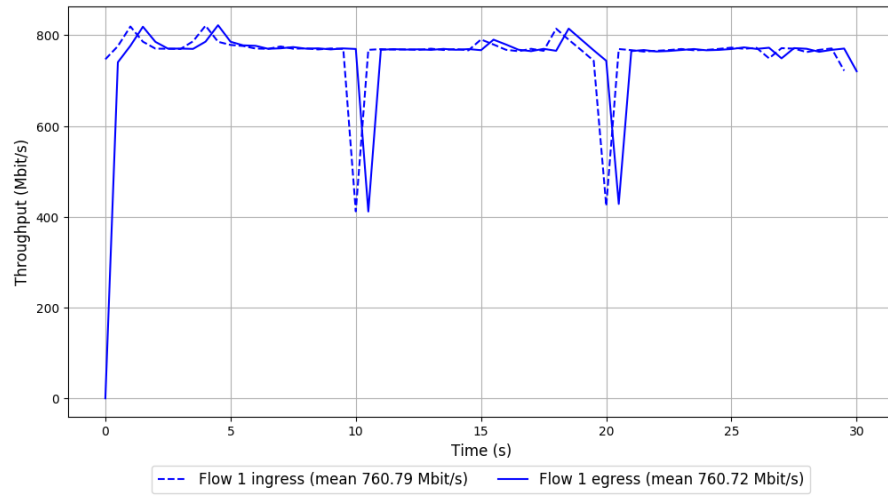
-- Flow 1:

Average throughput: 760.72 Mbit/s

95th percentile per-packet one-way delay: 4.361 ms

Loss rate: 0.02%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-03-09 08:50:35

End at: 2019-03-09 08:51:05

Local clock offset: 0.518 ms

Remote clock offset: 2.817 ms

Below is generated by plot.py at 2019-03-09 10:19:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 792.49 Mbit/s

95th percentile per-packet one-way delay: 4.276 ms

Loss rate: 0.02%

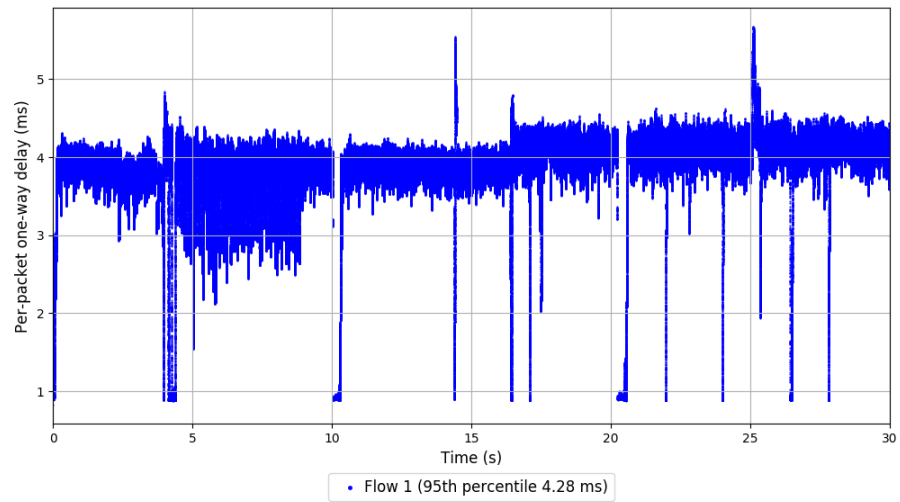
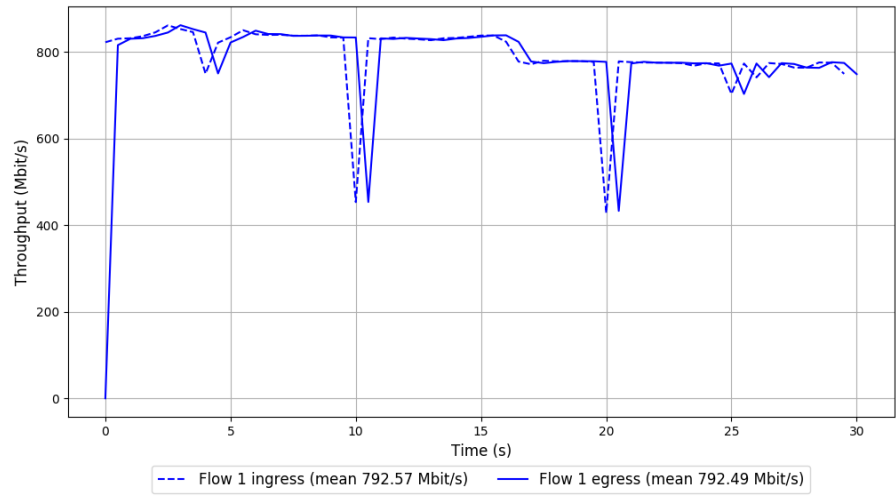
-- Flow 1:

Average throughput: 792.49 Mbit/s

95th percentile per-packet one-way delay: 4.276 ms

Loss rate: 0.02%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-03-09 09:20:13

End at: 2019-03-09 09:20:43

Local clock offset: 0.412 ms

Remote clock offset: 2.363 ms

Below is generated by plot.py at 2019-03-09 10:19:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 730.31 Mbit/s

95th percentile per-packet one-way delay: 4.618 ms

Loss rate: 0.02%

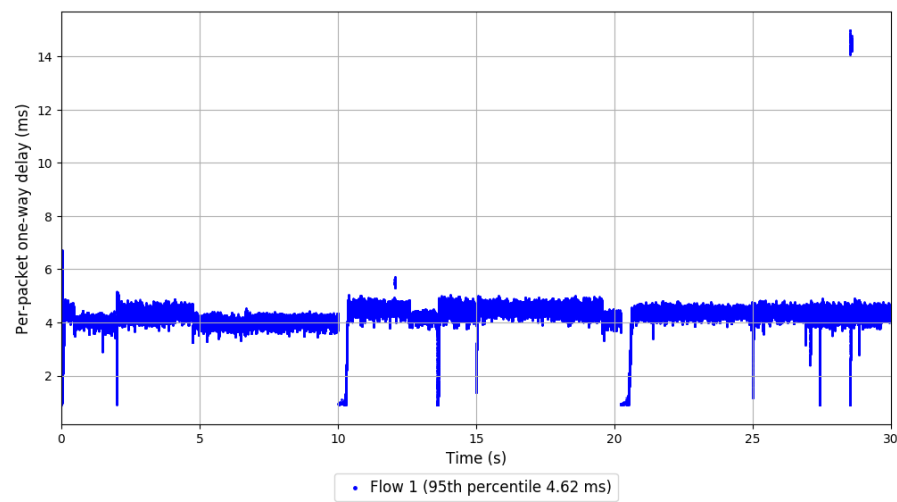
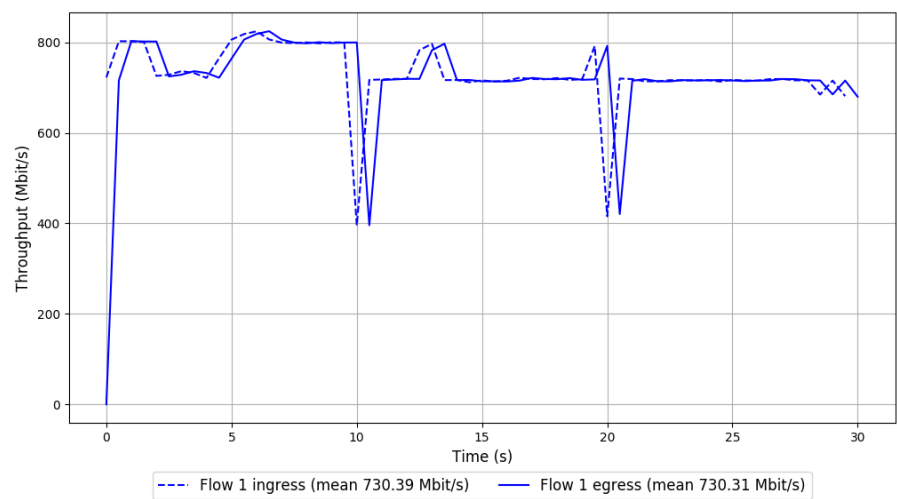
-- Flow 1:

Average throughput: 730.31 Mbit/s

95th percentile per-packet one-way delay: 4.618 ms

Loss rate: 0.02%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-03-09 09:49:48

End at: 2019-03-09 09:50:18

Local clock offset: 1.844 ms

Remote clock offset: 2.149 ms

Below is generated by plot.py at 2019-03-09 10:19:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 787.56 Mbit/s

95th percentile per-packet one-way delay: 4.218 ms

Loss rate: 0.02%

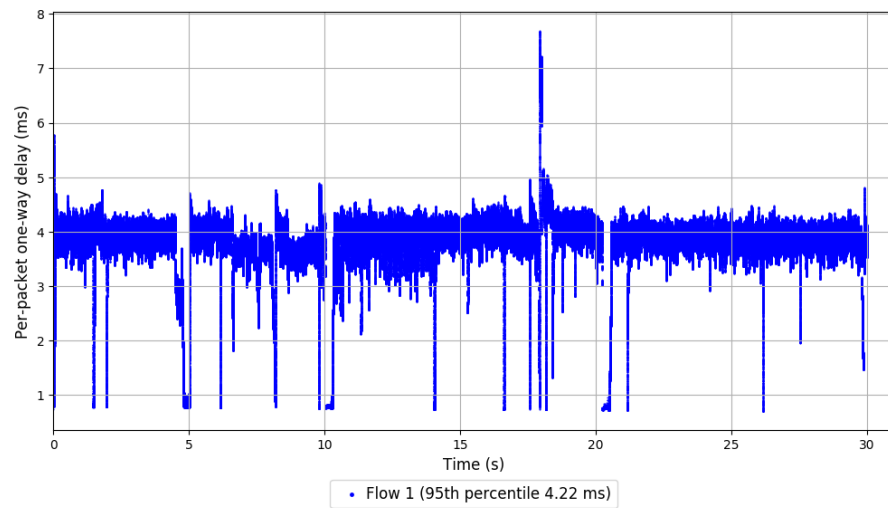
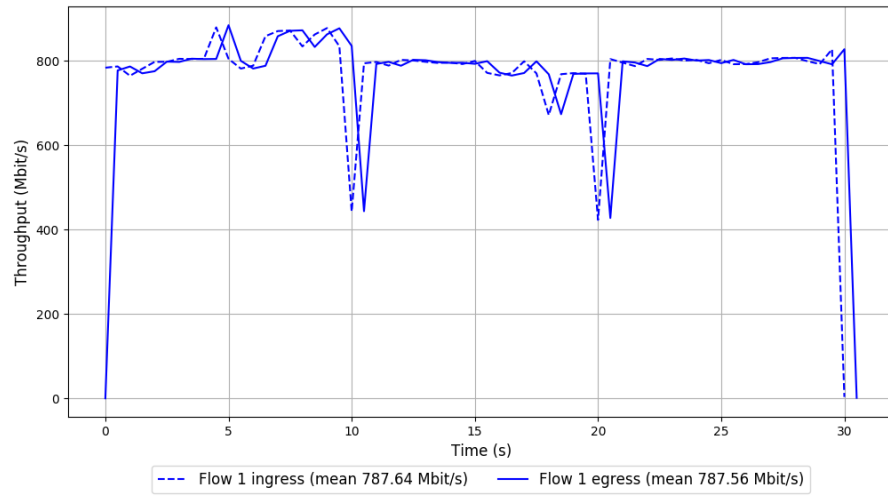
-- Flow 1:

Average throughput: 787.56 Mbit/s

95th percentile per-packet one-way delay: 4.218 ms

Loss rate: 0.02%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-03-09 07:43:51

End at: 2019-03-09 07:44:21

Local clock offset: 0.537 ms

Remote clock offset: 2.382 ms

Below is generated by plot.py at 2019-03-09 10:19:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 364.87 Mbit/s

95th percentile per-packet one-way delay: 1.337 ms

Loss rate: 0.01%

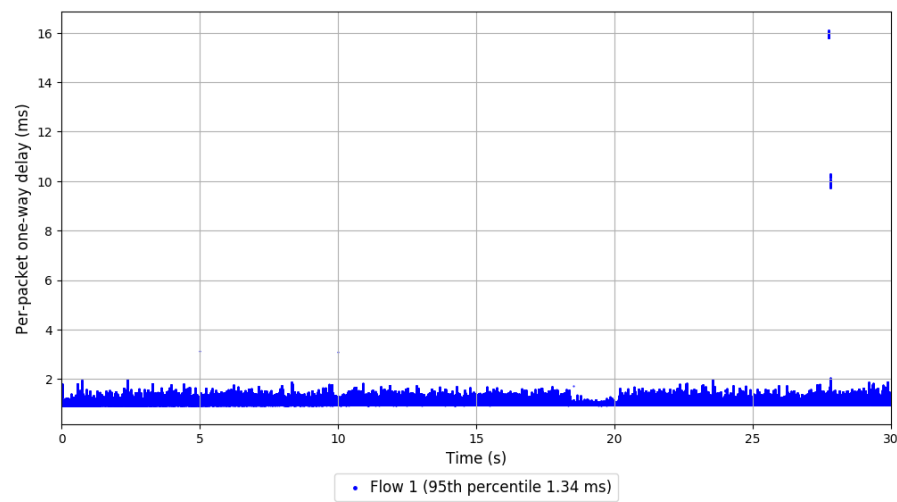
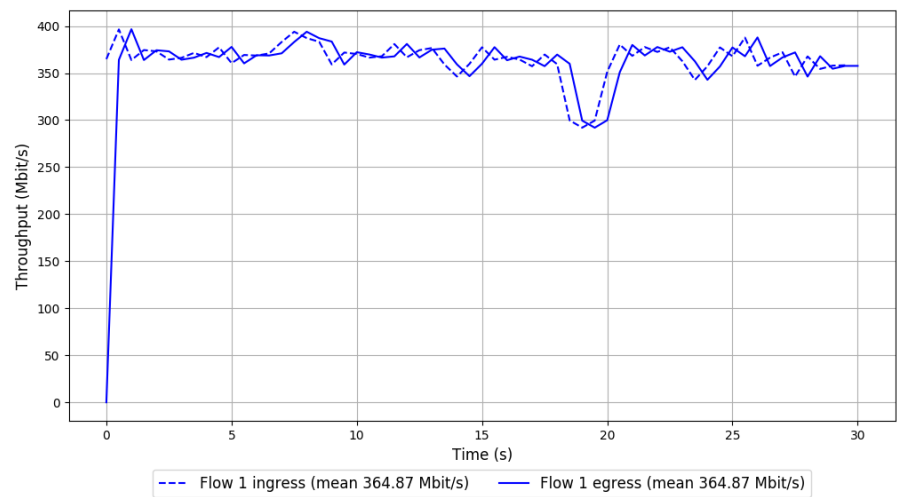
-- Flow 1:

Average throughput: 364.87 Mbit/s

95th percentile per-packet one-way delay: 1.337 ms

Loss rate: 0.01%

Run 1: Report of Copa — Data Link

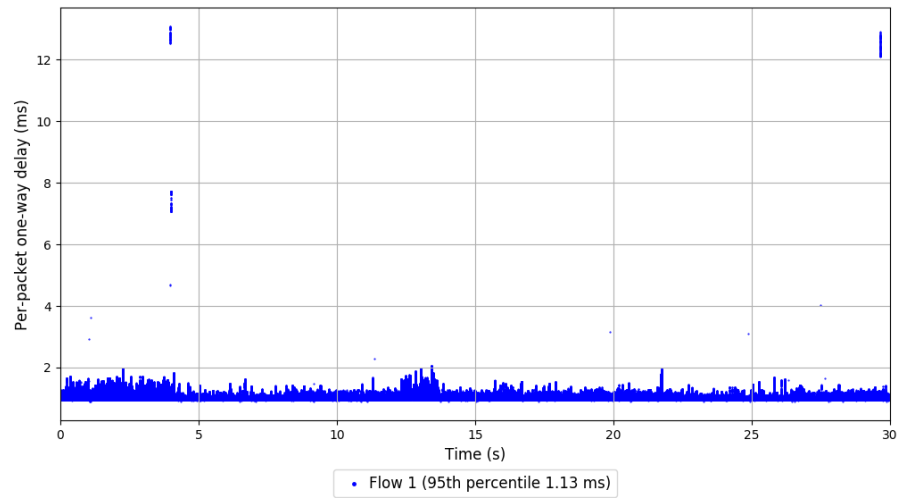
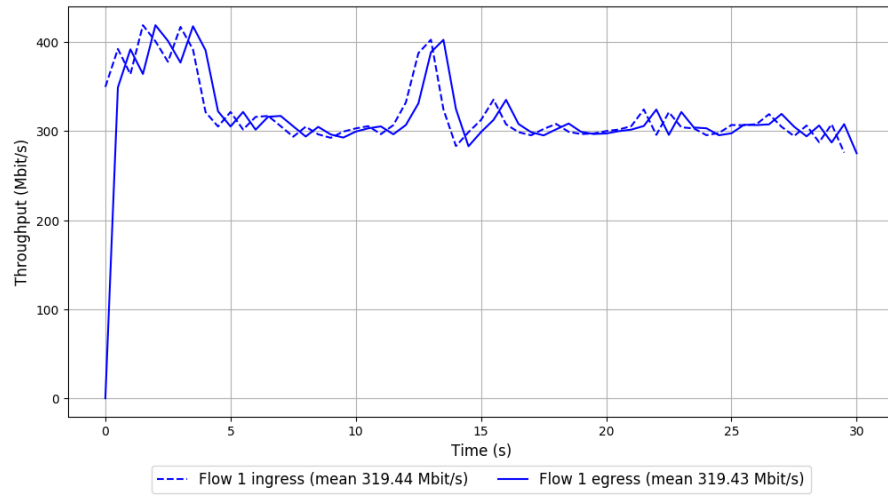


Run 2: Statistics of Copa

Start at: 2019-03-09 08:13:12
End at: 2019-03-09 08:13:42
Local clock offset: -0.023 ms
Remote clock offset: 2.736 ms

Below is generated by plot.py at 2019-03-09 10:19:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 319.43 Mbit/s
95th percentile per-packet one-way delay: 1.127 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 319.43 Mbit/s
95th percentile per-packet one-way delay: 1.127 ms
Loss rate: 0.01%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-03-09 08:42:54

End at: 2019-03-09 08:43:24

Local clock offset: 0.622 ms

Remote clock offset: 2.952 ms

Below is generated by plot.py at 2019-03-09 10:19:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 386.68 Mbit/s

95th percentile per-packet one-way delay: 0.989 ms

Loss rate: 0.00%

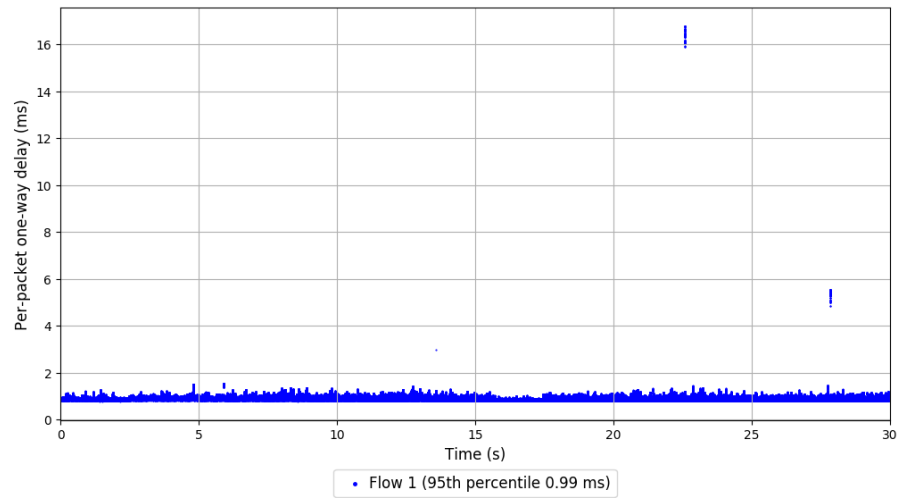
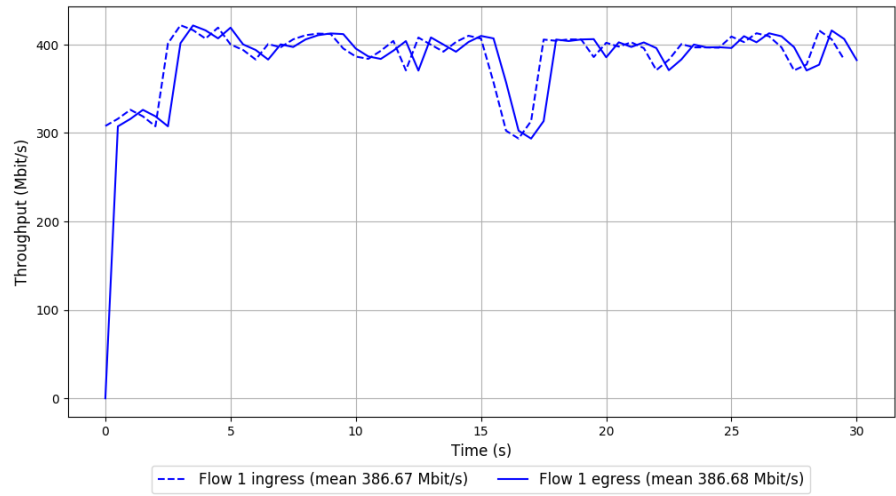
-- Flow 1:

Average throughput: 386.68 Mbit/s

95th percentile per-packet one-way delay: 0.989 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

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

End at: 2019-03-09 09:13:04

Local clock offset: 0.399 ms

Remote clock offset: 2.745 ms

Below is generated by plot.py at 2019-03-09 10:26:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 386.14 Mbit/s

95th percentile per-packet one-way delay: 1.098 ms

Loss rate: 0.01%

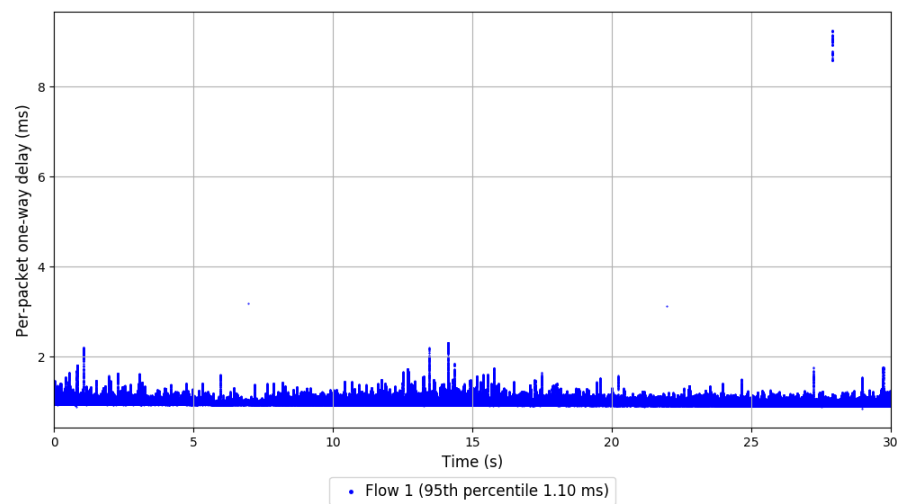
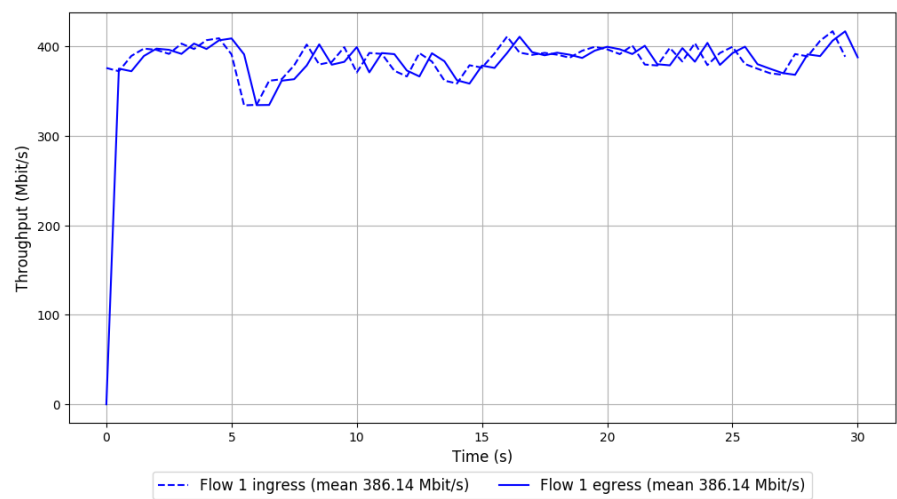
-- Flow 1:

Average throughput: 386.14 Mbit/s

95th percentile per-packet one-way delay: 1.098 ms

Loss rate: 0.01%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

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

End at: 2019-03-09 09:42:39

Local clock offset: 0.39 ms

Remote clock offset: 2.124 ms

Below is generated by plot.py at 2019-03-09 10:26:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 394.97 Mbit/s

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

Loss rate: 0.01%

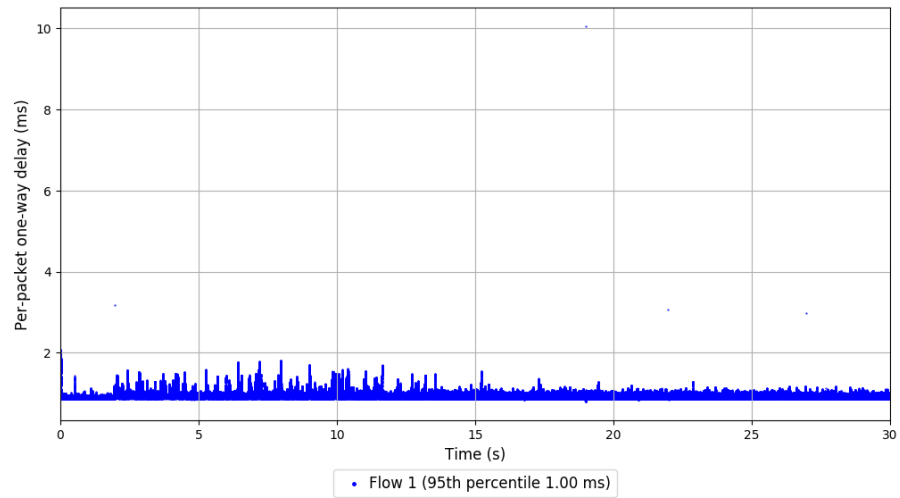
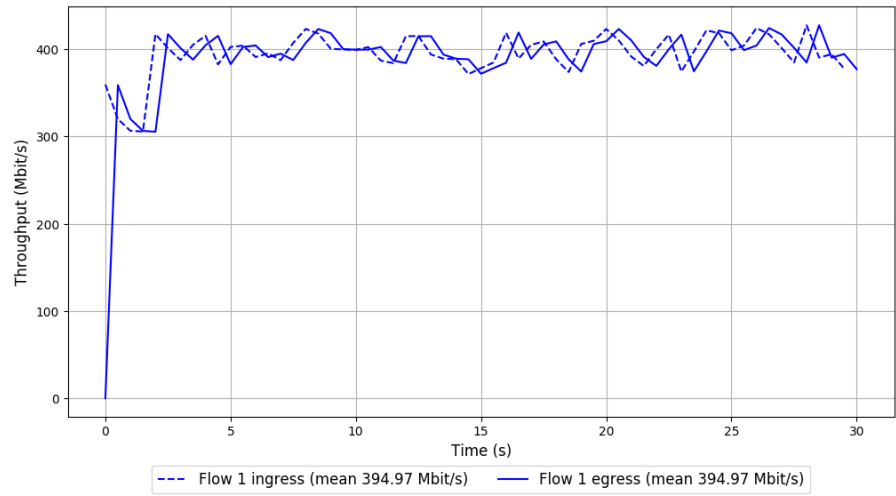
-- Flow 1:

Average throughput: 394.97 Mbit/s

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

Loss rate: 0.01%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-03-09 07:45:27

End at: 2019-03-09 07:45:57

Local clock offset: 0.489 ms

Remote clock offset: 2.426 ms

Below is generated by plot.py at 2019-03-09 10:26:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 717.20 Mbit/s

95th percentile per-packet one-way delay: 15.602 ms

Loss rate: 0.03%

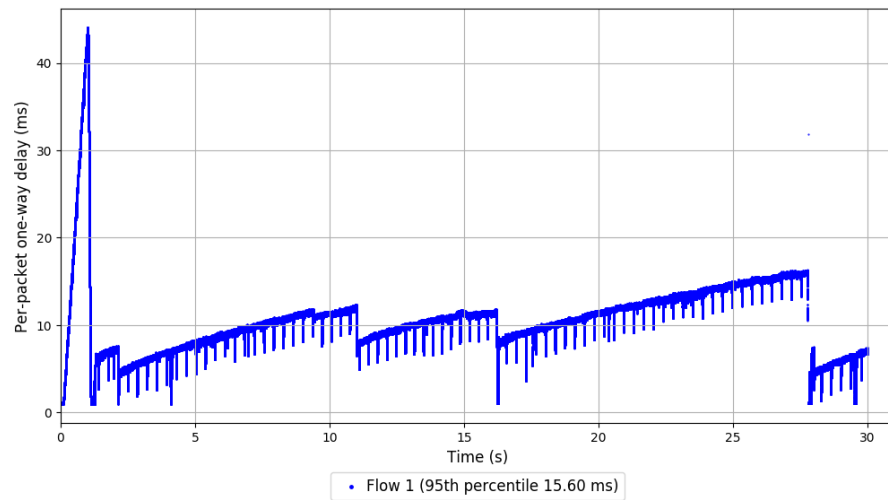
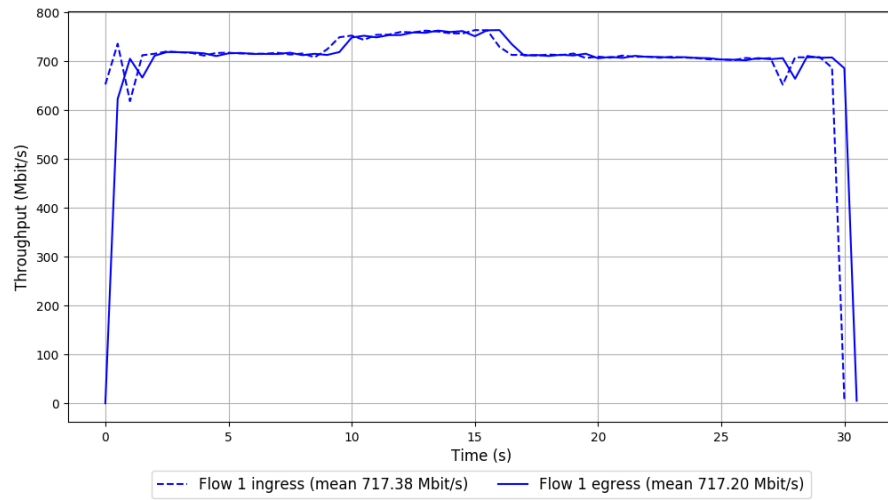
-- Flow 1:

Average throughput: 717.20 Mbit/s

95th percentile per-packet one-way delay: 15.602 ms

Loss rate: 0.03%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-03-09 08:14:45

End at: 2019-03-09 08:15:15

Local clock offset: -0.019 ms

Remote clock offset: 2.717 ms

Below is generated by plot.py at 2019-03-09 10:27:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 753.35 Mbit/s

95th percentile per-packet one-way delay: 16.080 ms

Loss rate: 0.06%

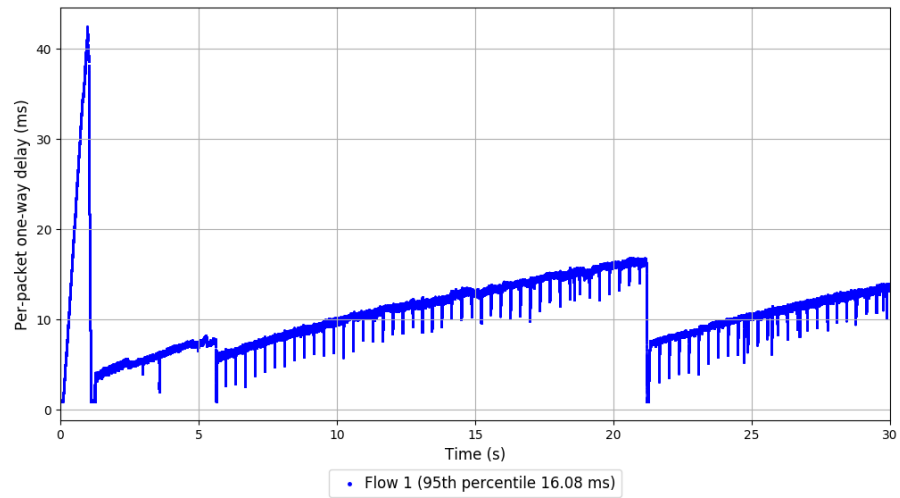
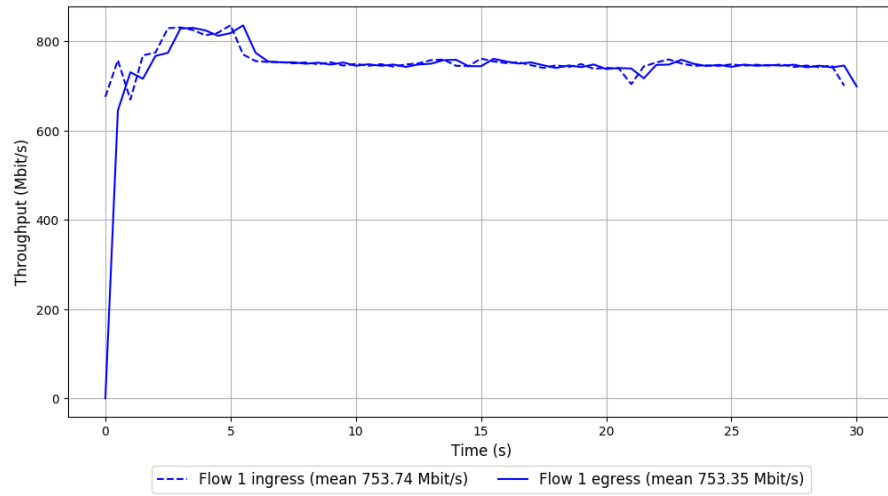
-- Flow 1:

Average throughput: 753.35 Mbit/s

95th percentile per-packet one-way delay: 16.080 ms

Loss rate: 0.06%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2019-03-09 08:44:31

End at: 2019-03-09 08:45:01

Local clock offset: 0.623 ms

Remote clock offset: 2.815 ms

Below is generated by plot.py at 2019-03-09 10:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 798.15 Mbit/s

95th percentile per-packet one-way delay: 14.564 ms

Loss rate: 0.03%

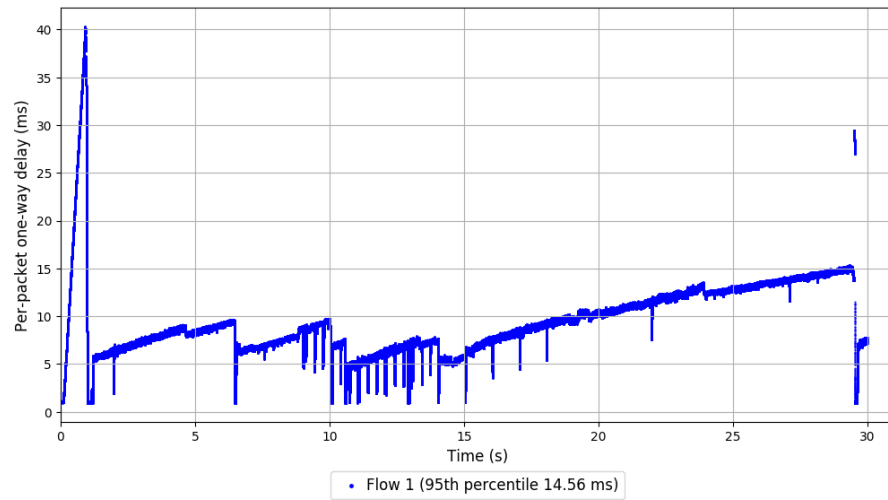
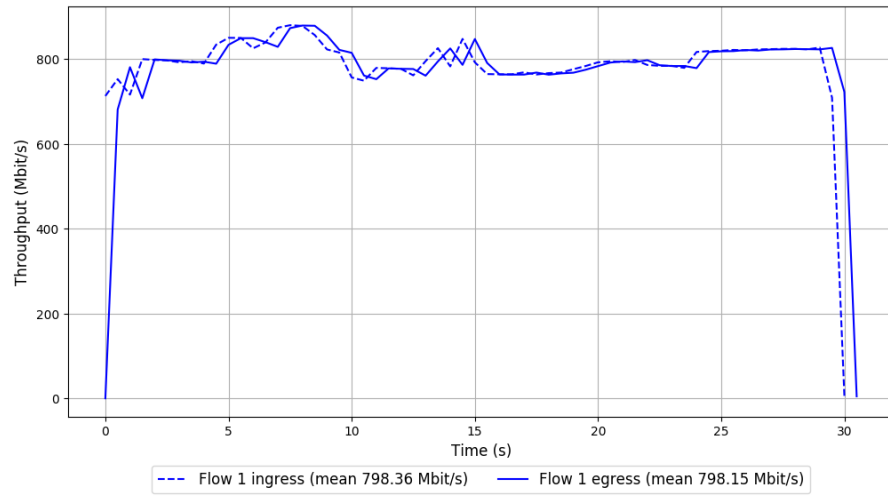
-- Flow 1:

Average throughput: 798.15 Mbit/s

95th percentile per-packet one-way delay: 14.564 ms

Loss rate: 0.03%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-03-09 09:14:11

End at: 2019-03-09 09:14:41

Local clock offset: 0.389 ms

Remote clock offset: 2.695 ms

Below is generated by plot.py at 2019-03-09 10:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 785.03 Mbit/s

95th percentile per-packet one-way delay: 13.110 ms

Loss rate: 0.04%

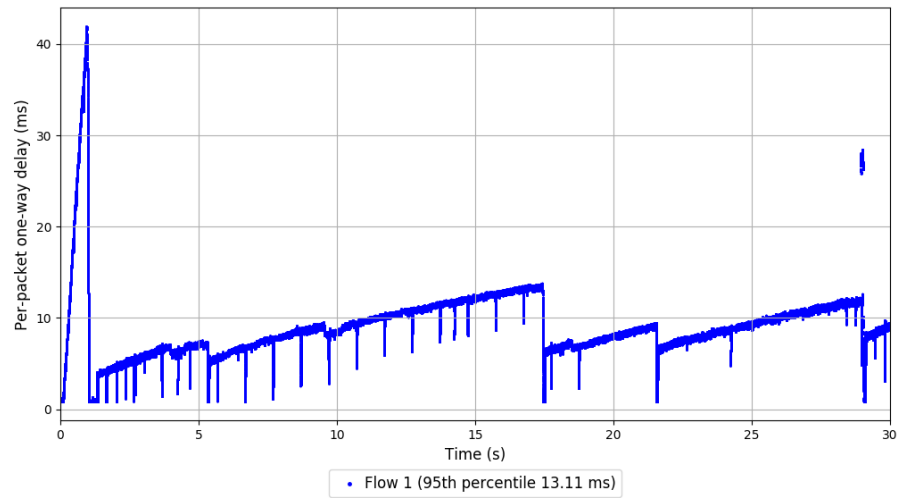
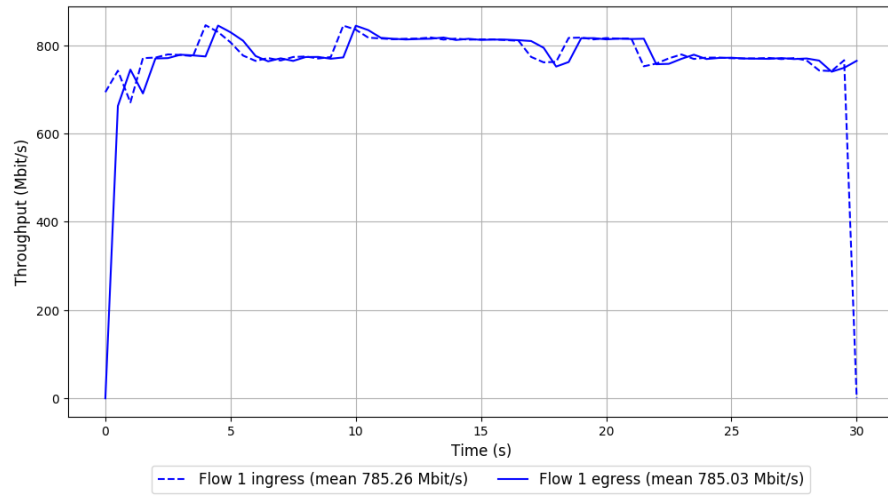
-- Flow 1:

Average throughput: 785.03 Mbit/s

95th percentile per-packet one-way delay: 13.110 ms

Loss rate: 0.04%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-03-09 09:43:47

End at: 2019-03-09 09:44:17

Local clock offset: 0.4 ms

Remote clock offset: 2.146 ms

Below is generated by plot.py at 2019-03-09 10:27:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 789.09 Mbit/s

95th percentile per-packet one-way delay: 12.703 ms

Loss rate: 0.04%

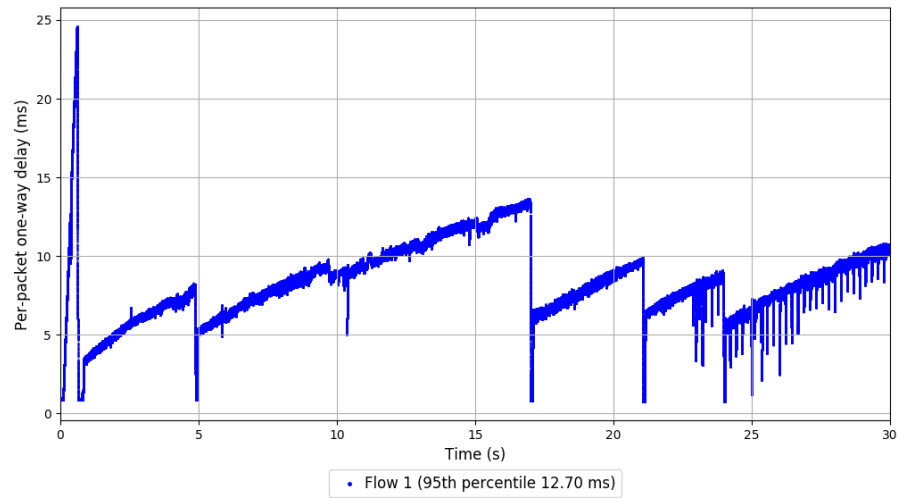
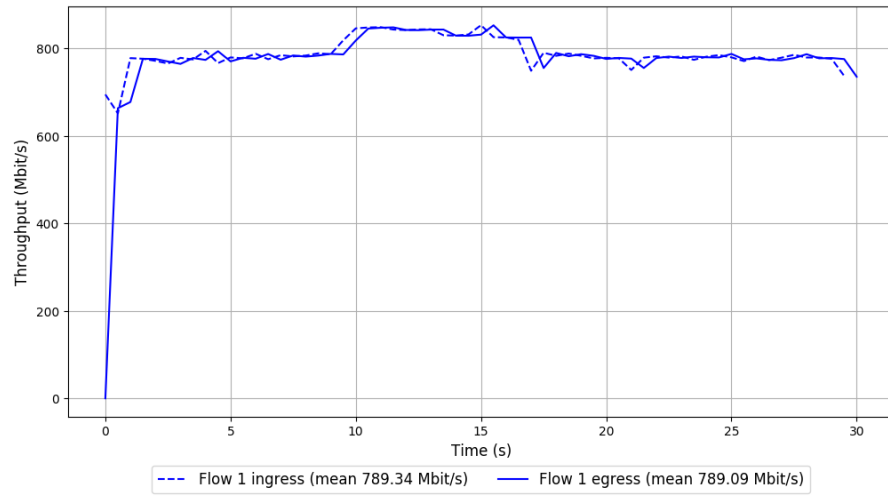
-- Flow 1:

Average throughput: 789.09 Mbit/s

95th percentile per-packet one-way delay: 12.703 ms

Loss rate: 0.04%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-03-09 07:58:29

End at: 2019-03-09 07:58:59

Local clock offset: 0.112 ms

Remote clock offset: 3.049 ms

Below is generated by plot.py at 2019-03-09 10:31:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 938.80 Mbit/s

95th percentile per-packet one-way delay: 6.977 ms

Loss rate: 0.01%

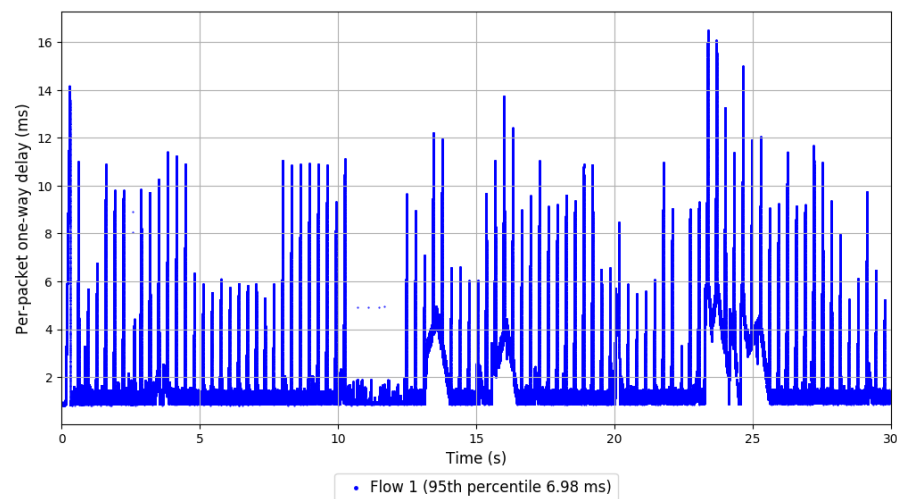
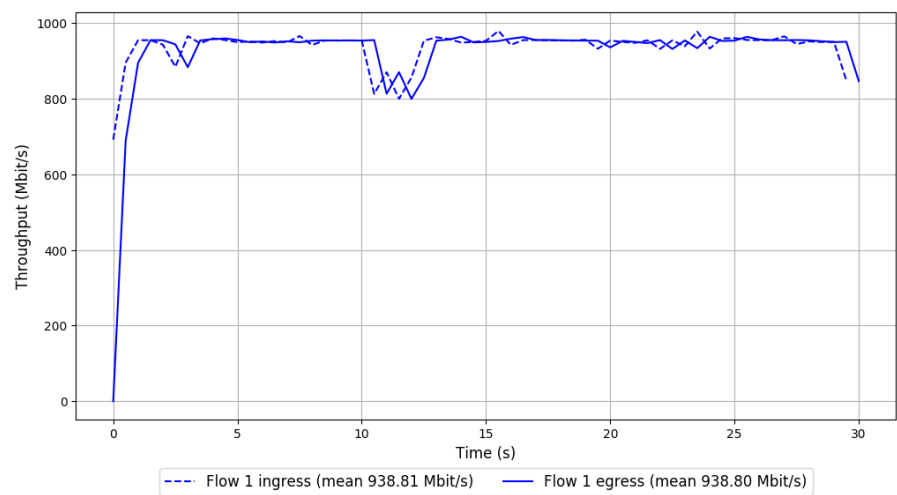
-- Flow 1:

Average throughput: 938.80 Mbit/s

95th percentile per-packet one-way delay: 6.977 ms

Loss rate: 0.01%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-03-09 08:27:51

End at: 2019-03-09 08:28:21

Local clock offset: 0.495 ms

Remote clock offset: 3.029 ms

Below is generated by plot.py at 2019-03-09 10:38:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 935.95 Mbit/s

95th percentile per-packet one-way delay: 8.646 ms

Loss rate: 0.01%

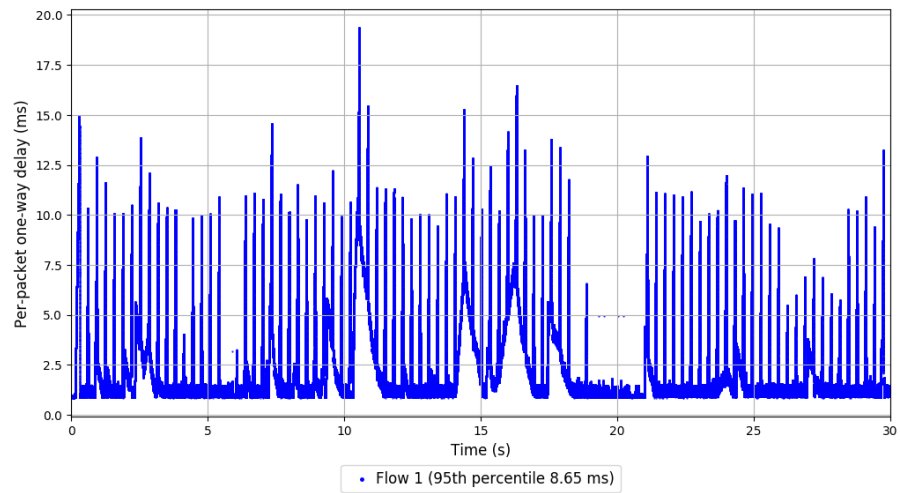
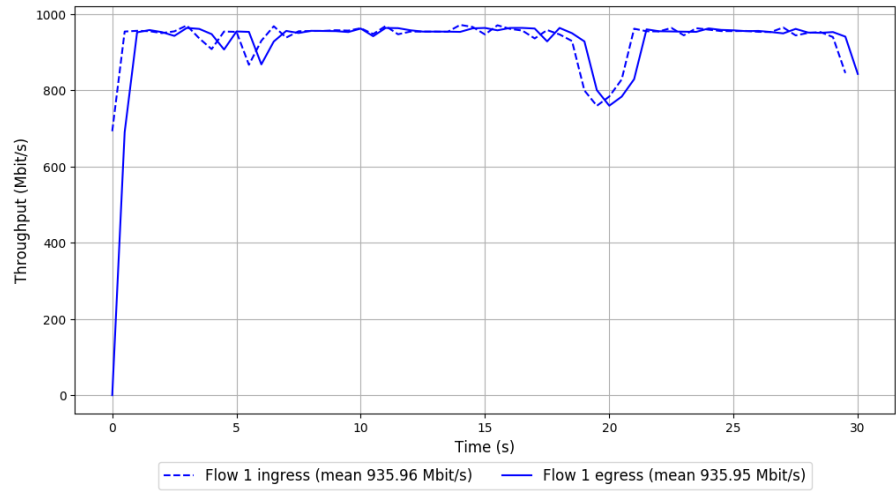
-- Flow 1:

Average throughput: 935.95 Mbit/s

95th percentile per-packet one-way delay: 8.646 ms

Loss rate: 0.01%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-03-09 08:57:44

End at: 2019-03-09 08:58:14

Local clock offset: 0.451 ms

Remote clock offset: 2.848 ms

Below is generated by plot.py at 2019-03-09 10:39:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 943.58 Mbit/s

95th percentile per-packet one-way delay: 8.992 ms

Loss rate: 0.01%

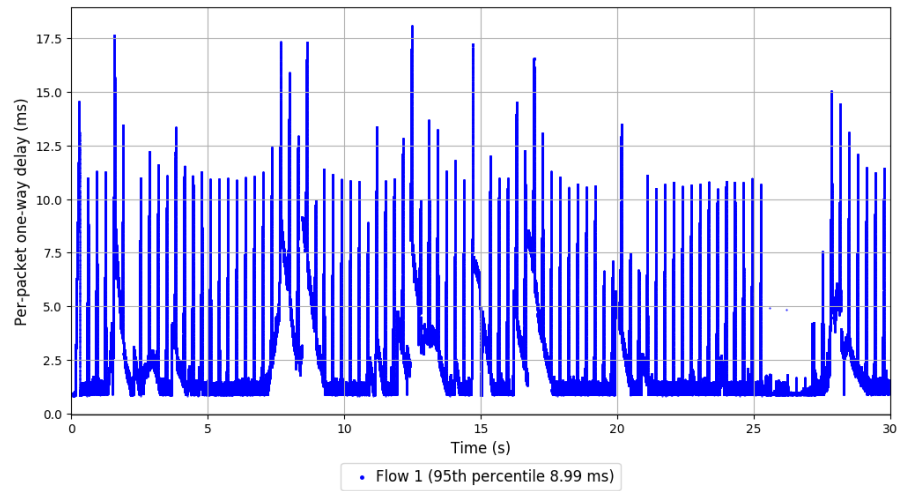
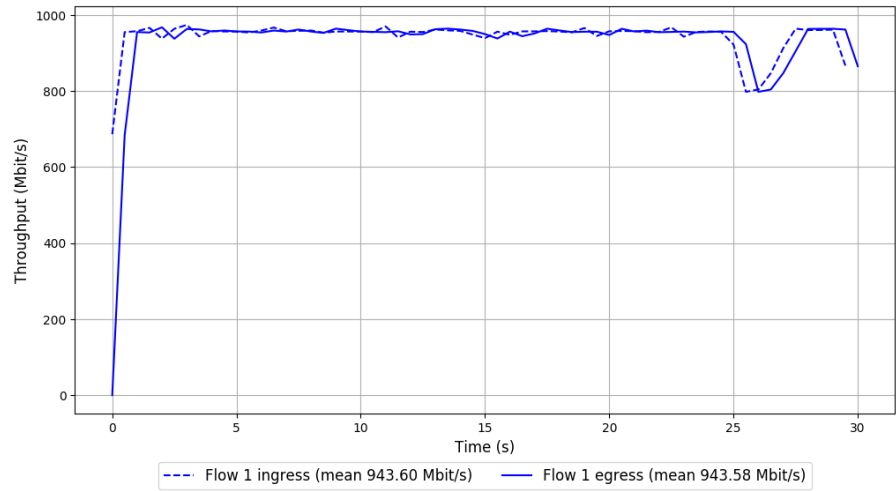
-- Flow 1:

Average throughput: 943.58 Mbit/s

95th percentile per-packet one-way delay: 8.992 ms

Loss rate: 0.01%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

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

End at: 2019-03-09 09:27:49

Local clock offset: 0.422 ms

Remote clock offset: 2.214 ms

Below is generated by plot.py at 2019-03-09 10:39:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 936.45 Mbit/s

95th percentile per-packet one-way delay: 7.565 ms

Loss rate: 0.01%

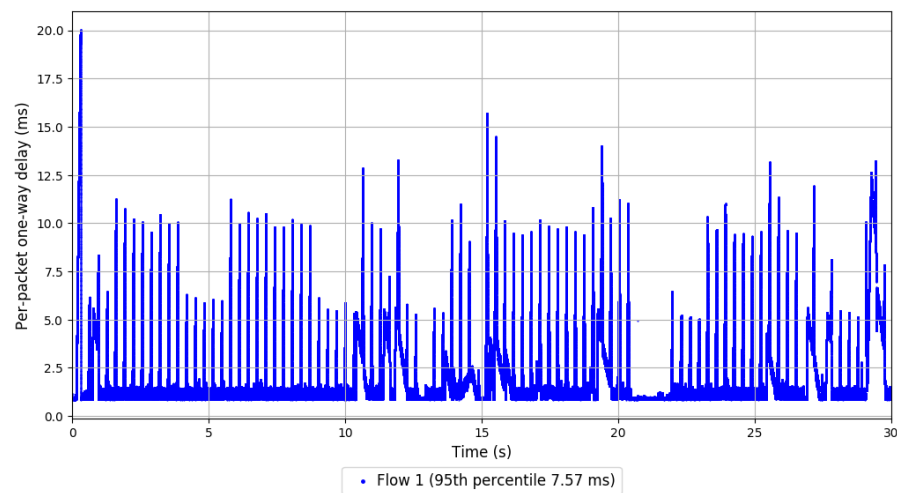
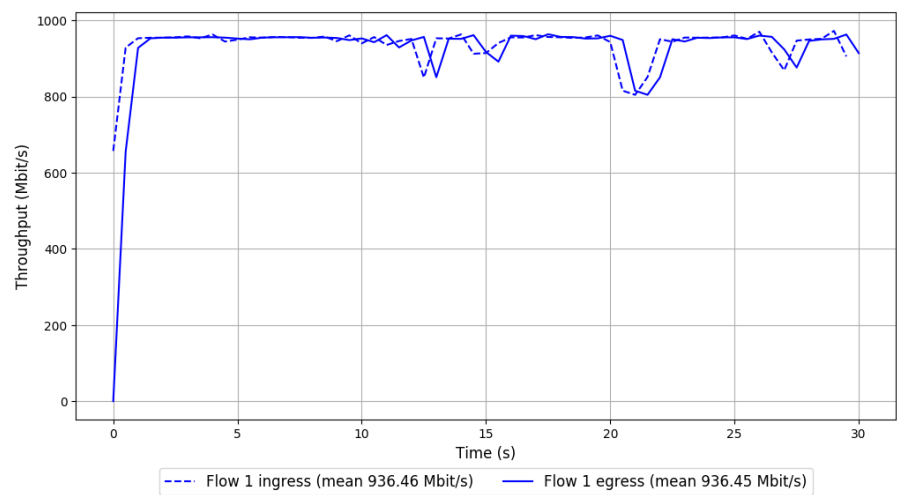
-- Flow 1:

Average throughput: 936.45 Mbit/s

95th percentile per-packet one-way delay: 7.565 ms

Loss rate: 0.01%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-03-09 09:56:55

End at: 2019-03-09 09:57:25

Local clock offset: 2.907 ms

Remote clock offset: 2.095 ms

Below is generated by plot.py at 2019-03-09 10:39:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 942.01 Mbit/s

95th percentile per-packet one-way delay: 8.171 ms

Loss rate: 0.01%

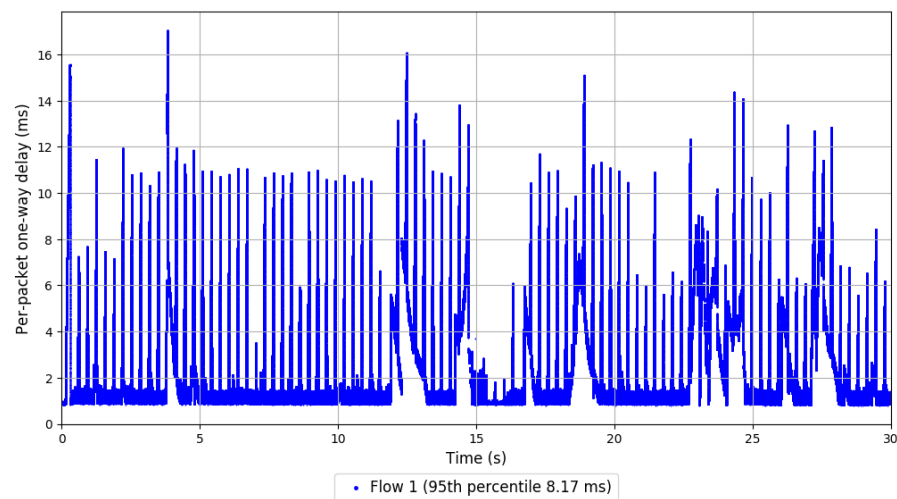
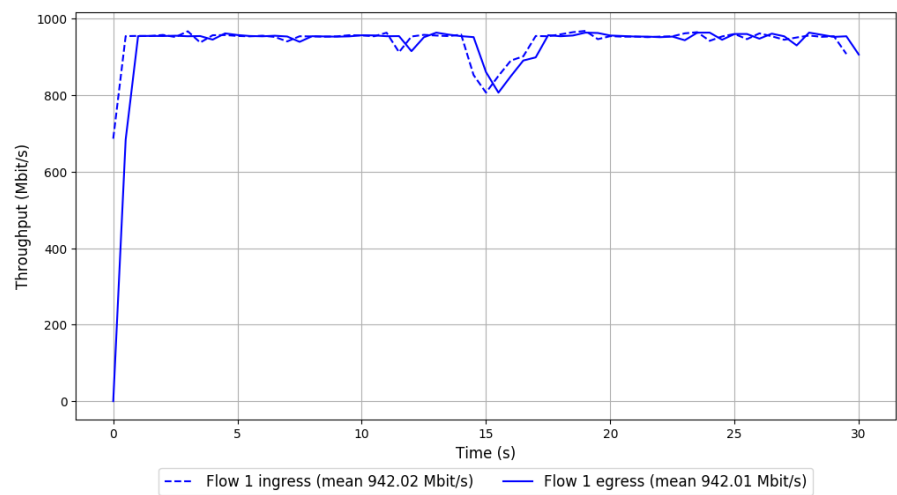
-- Flow 1:

Average throughput: 942.01 Mbit/s

95th percentile per-packet one-way delay: 8.171 ms

Loss rate: 0.01%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-03-09 07:49:50

End at: 2019-03-09 07:50:20

Local clock offset: 0.334 ms

Remote clock offset: 2.566 ms

Below is generated by plot.py at 2019-03-09 10:39:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 858.36 Mbit/s

95th percentile per-packet one-way delay: 5.337 ms

Loss rate: 0.00%

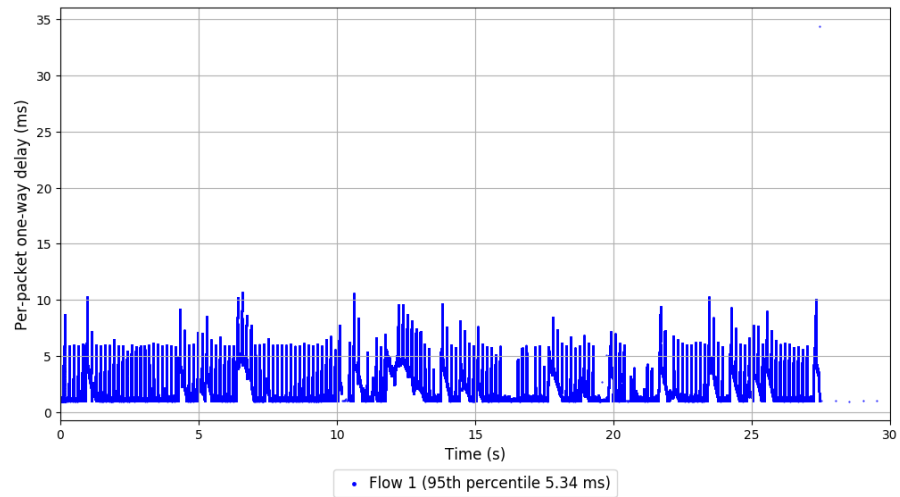
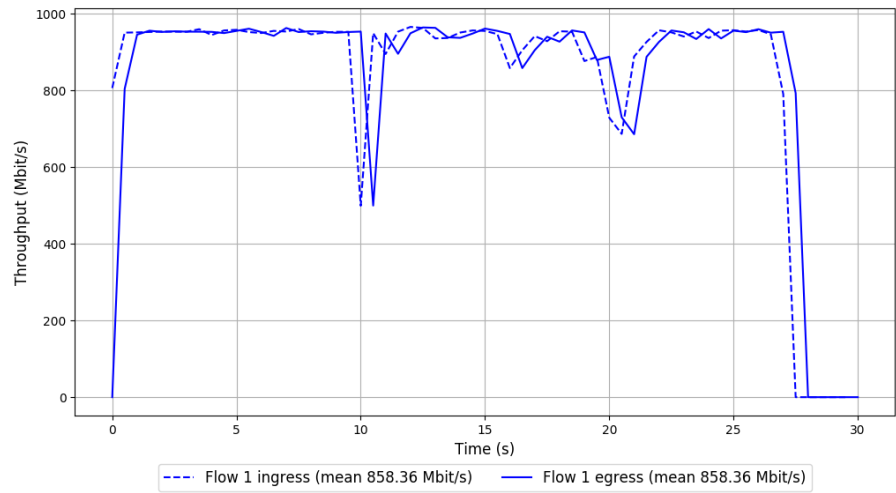
-- Flow 1:

Average throughput: 858.36 Mbit/s

95th percentile per-packet one-way delay: 5.337 ms

Loss rate: 0.00%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-03-09 08:19:07

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

Local clock offset: 0.237 ms

Remote clock offset: 2.752 ms

Below is generated by plot.py at 2019-03-09 10:40:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 926.44 Mbit/s

95th percentile per-packet one-way delay: 5.202 ms

Loss rate: 0.01%

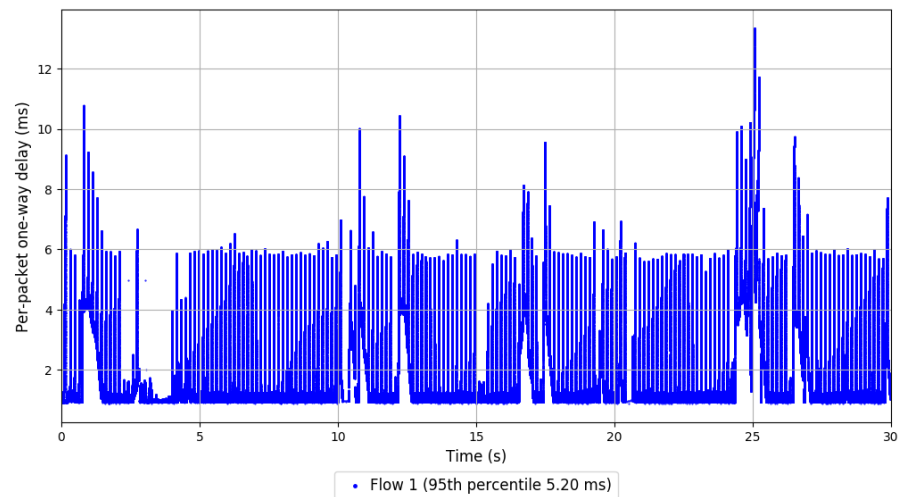
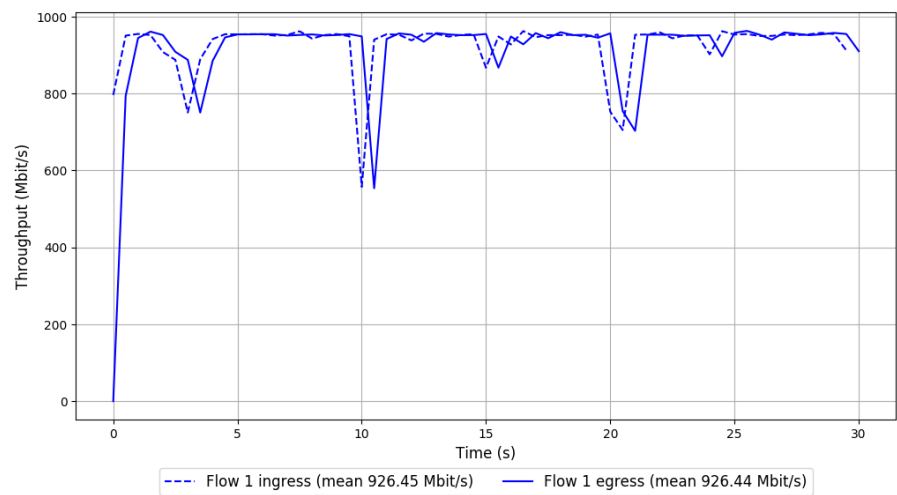
-- Flow 1:

Average throughput: 926.44 Mbit/s

95th percentile per-packet one-way delay: 5.202 ms

Loss rate: 0.01%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-03-09 08:48:58

End at: 2019-03-09 08:49:28

Local clock offset: 0.528 ms

Remote clock offset: 2.826 ms

Below is generated by plot.py at 2019-03-09 10:40:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 929.43 Mbit/s

95th percentile per-packet one-way delay: 5.223 ms

Loss rate: 0.02%

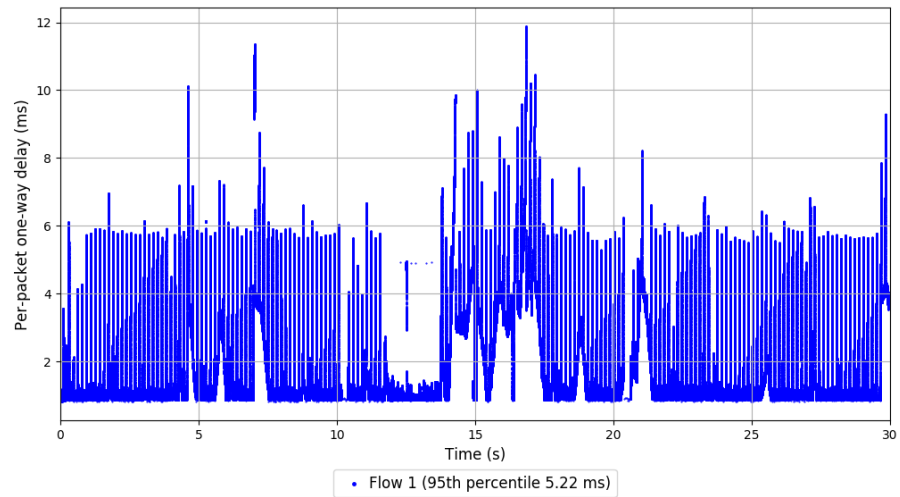
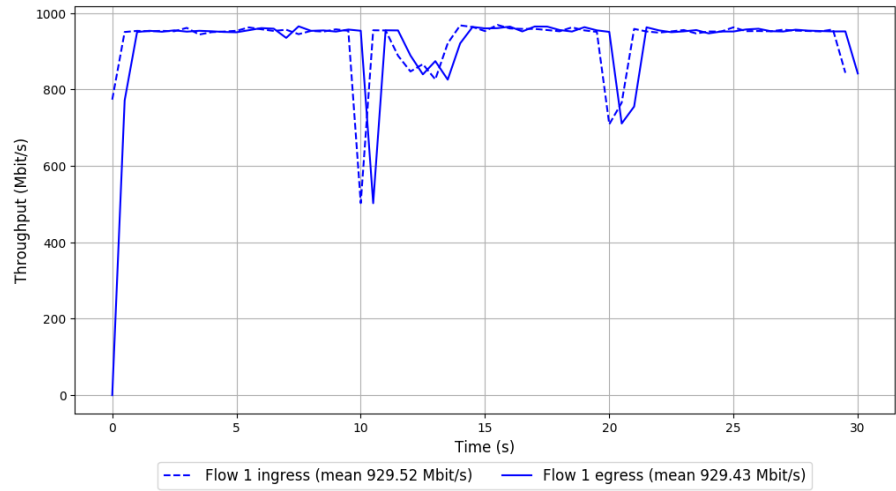
-- Flow 1:

Average throughput: 929.43 Mbit/s

95th percentile per-packet one-way delay: 5.223 ms

Loss rate: 0.02%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-03-09 09:18:35

End at: 2019-03-09 09:19:05

Local clock offset: 0.425 ms

Remote clock offset: 2.387 ms

Below is generated by plot.py at 2019-03-09 10:46:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 933.95 Mbit/s

95th percentile per-packet one-way delay: 5.345 ms

Loss rate: 0.01%

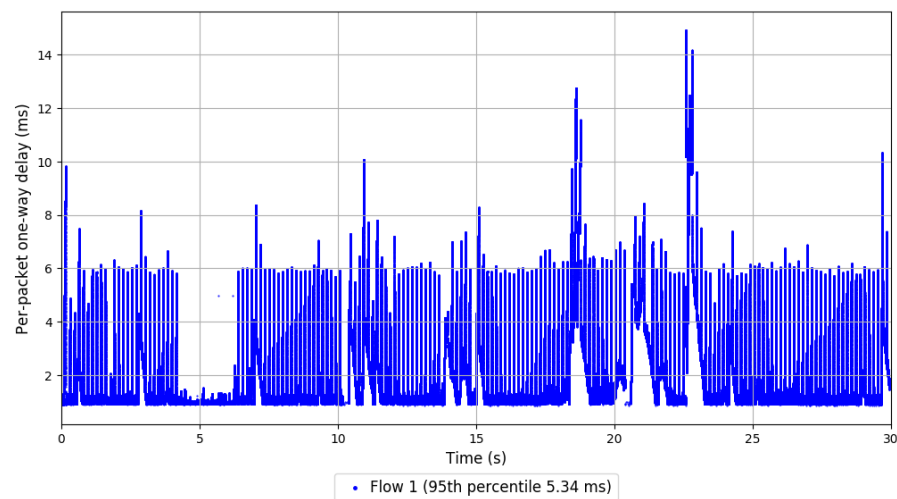
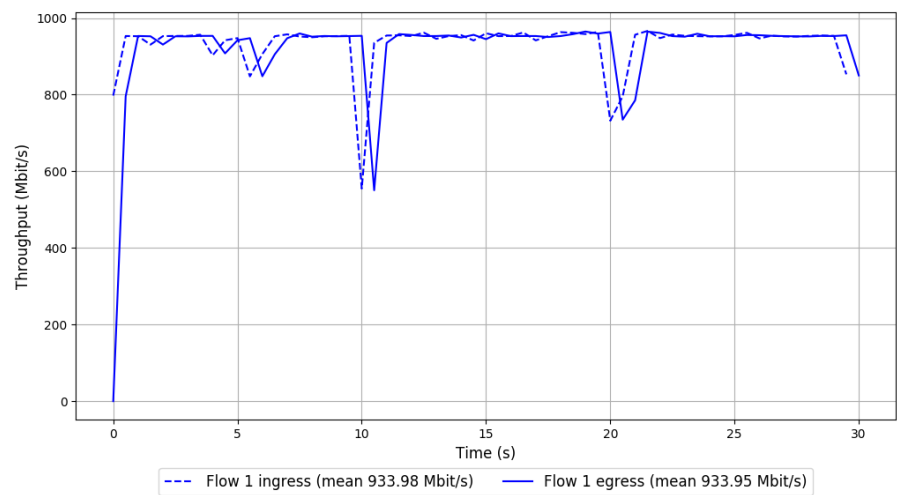
-- Flow 1:

Average throughput: 933.95 Mbit/s

95th percentile per-packet one-way delay: 5.345 ms

Loss rate: 0.01%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-03-09 09:48:10

End at: 2019-03-09 09:48:40

Local clock offset: 1.486 ms

Remote clock offset: 2.102 ms

Below is generated by plot.py at 2019-03-09 10:51:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 931.21 Mbit/s

95th percentile per-packet one-way delay: 4.868 ms

Loss rate: 0.01%

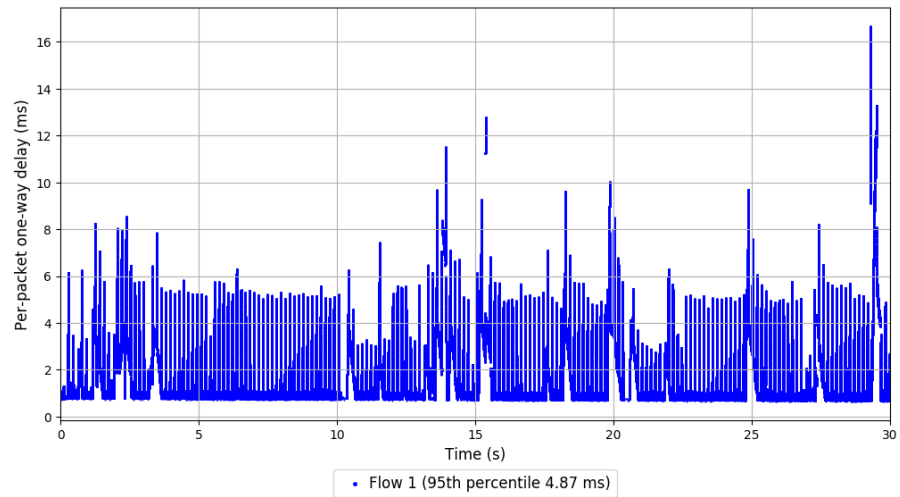
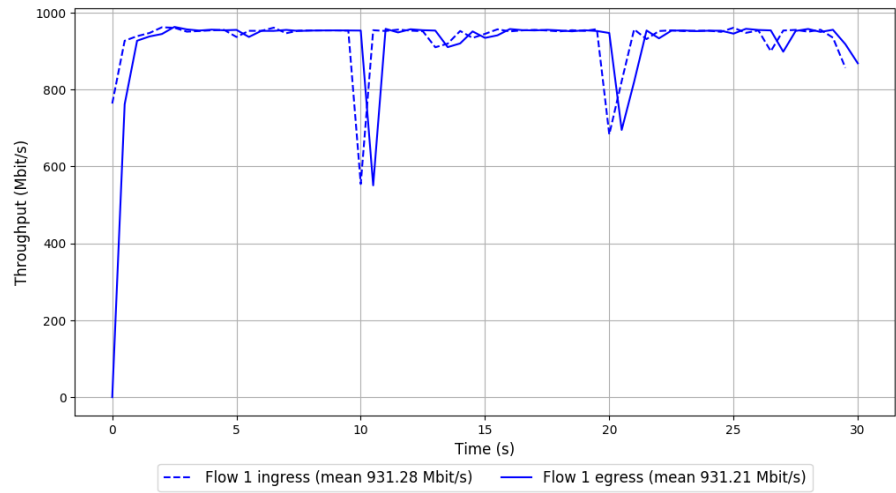
-- Flow 1:

Average throughput: 931.21 Mbit/s

95th percentile per-packet one-way delay: 4.868 ms

Loss rate: 0.01%

Run 5: Report of FillP-Sheep — Data Link

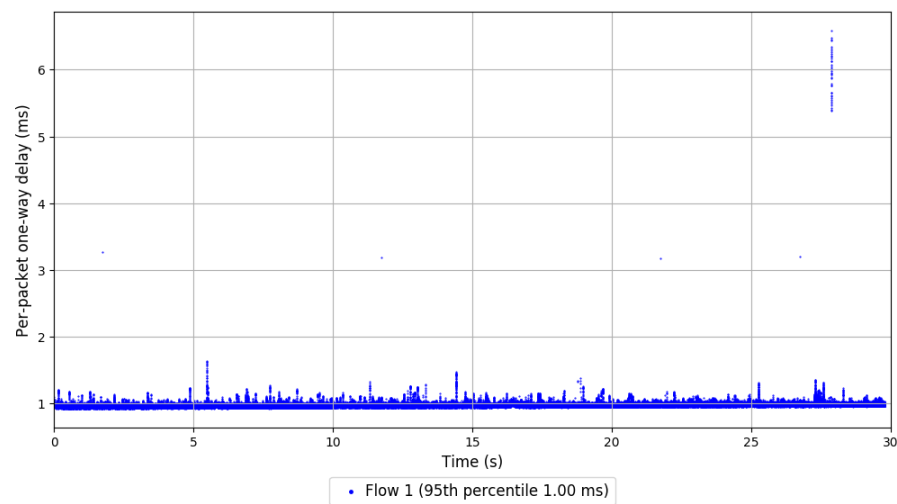
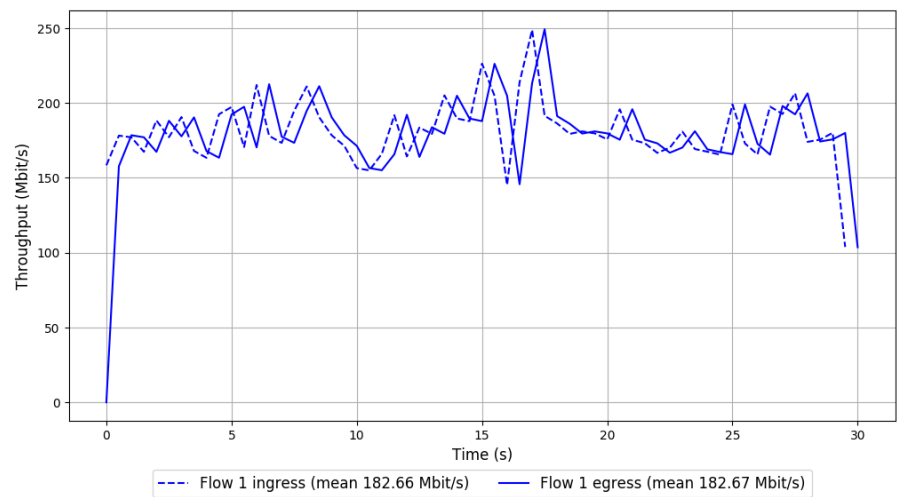


```
Run 1: Statistics of Indigo

Start at: 2019-03-09 07:48:30
End at: 2019-03-09 07:49:00
Local clock offset: 0.34 ms
Remote clock offset: 2.531 ms

# Below is generated by plot.py at 2019-03-09 10:51:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 182.67 Mbit/s
95th percentile per-packet one-way delay: 1.001 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 182.67 Mbit/s
95th percentile per-packet one-way delay: 1.001 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-03-09 08:17:47

End at: 2019-03-09 08:18:17

Local clock offset: 0.158 ms

Remote clock offset: 2.823 ms

Below is generated by plot.py at 2019-03-09 10:51:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.75 Mbit/s

95th percentile per-packet one-way delay: 0.893 ms

Loss rate: 0.01%

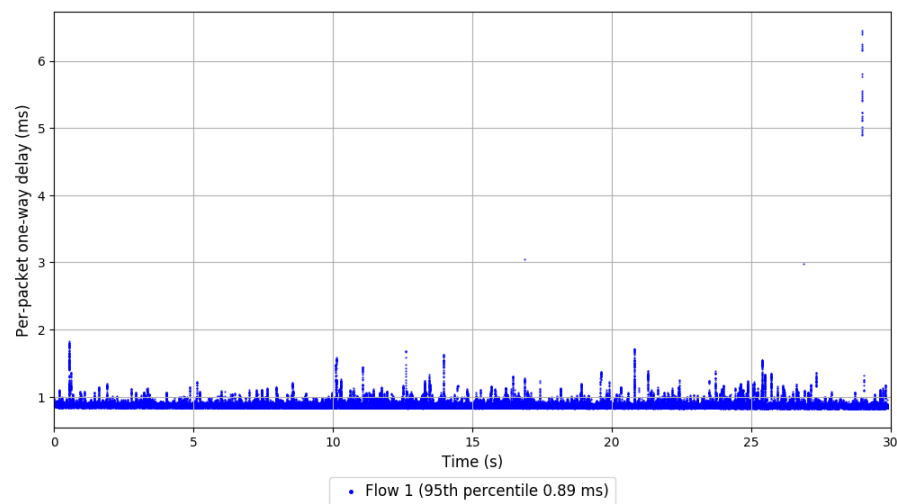
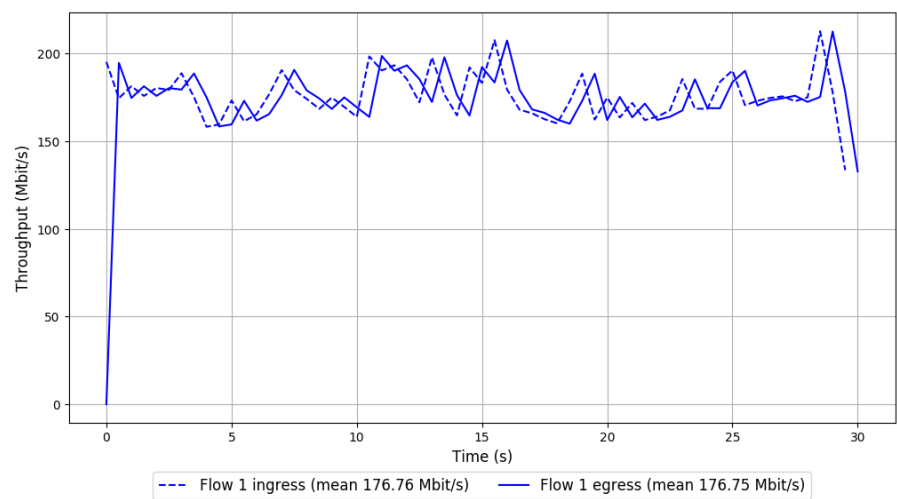
-- Flow 1:

Average throughput: 176.75 Mbit/s

95th percentile per-packet one-way delay: 0.893 ms

Loss rate: 0.01%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-03-09 08:47:37

End at: 2019-03-09 08:48:07

Local clock offset: 0.564 ms

Remote clock offset: 2.737 ms

Below is generated by plot.py at 2019-03-09 10:51:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.55 Mbit/s

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

Loss rate: 0.01%

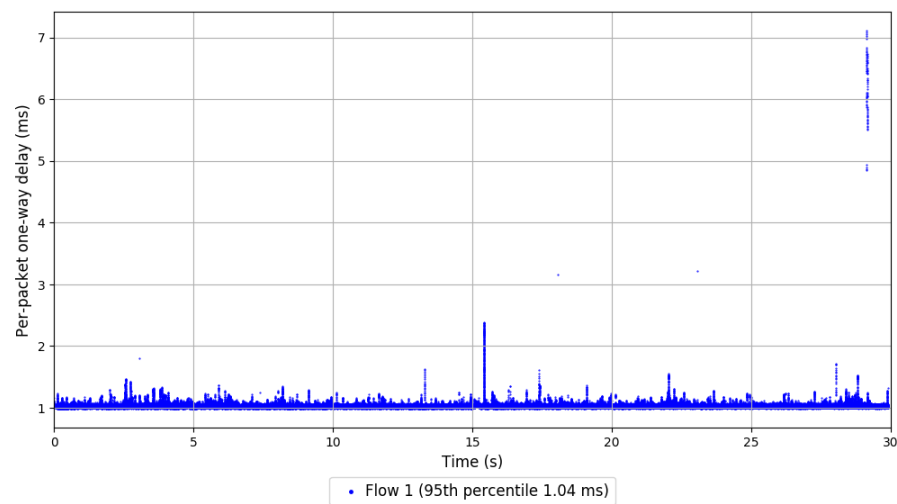
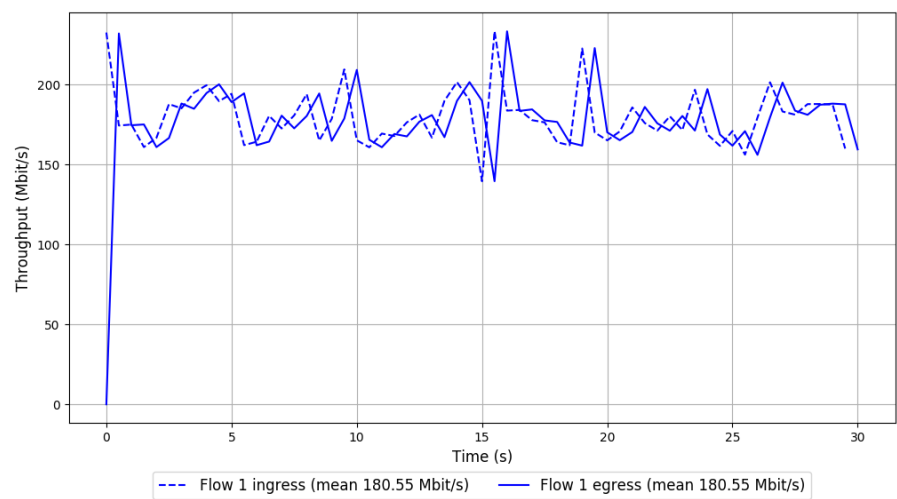
-- Flow 1:

Average throughput: 180.55 Mbit/s

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

Loss rate: 0.01%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-03-09 09:17:15

End at: 2019-03-09 09:17:45

Local clock offset: 0.398 ms

Remote clock offset: 2.481 ms

Below is generated by plot.py at 2019-03-09 10:51:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.31 Mbit/s

95th percentile per-packet one-way delay: 0.932 ms

Loss rate: 0.00%

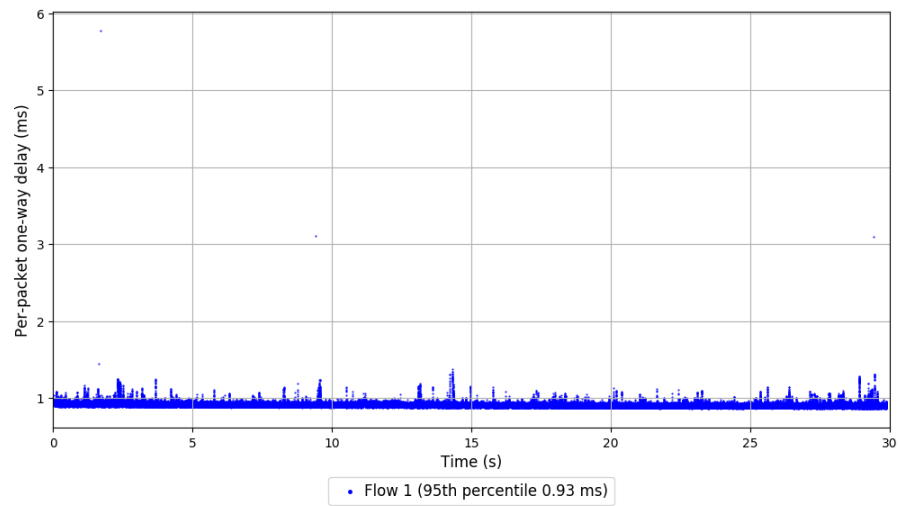
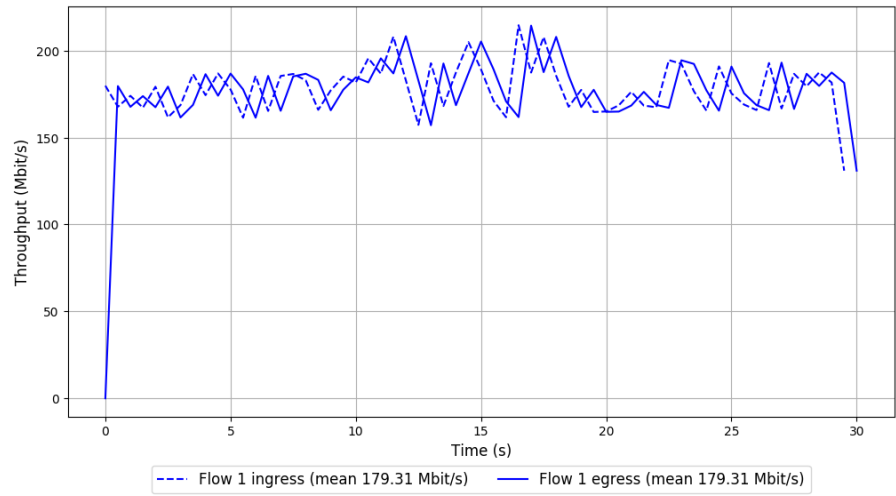
-- Flow 1:

Average throughput: 179.31 Mbit/s

95th percentile per-packet one-way delay: 0.932 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-03-09 09:46:50

End at: 2019-03-09 09:47:20

Local clock offset: 1.161 ms

Remote clock offset: 2.066 ms

Below is generated by plot.py at 2019-03-09 10:51:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.93 Mbit/s

95th percentile per-packet one-way delay: 0.854 ms

Loss rate: 0.01%

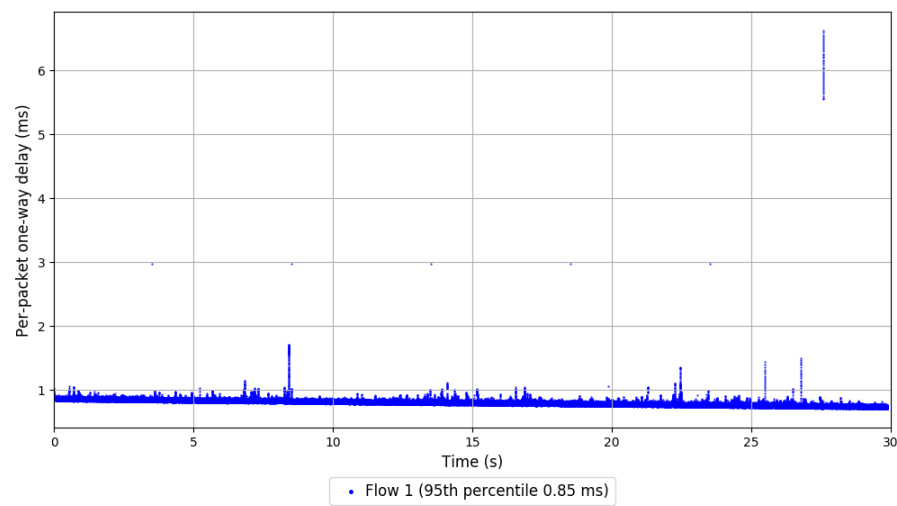
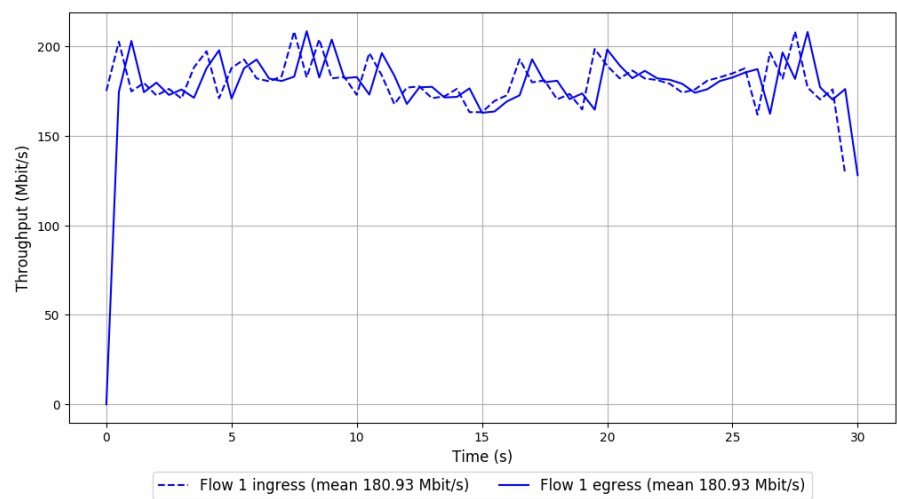
-- Flow 1:

Average throughput: 180.93 Mbit/s

95th percentile per-packet one-way delay: 0.854 ms

Loss rate: 0.01%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-03-09 07:54:14

End at: 2019-03-09 07:54:44

Local clock offset: 0.219 ms

Remote clock offset: 2.728 ms

Below is generated by plot.py at 2019-03-09 10:51:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 312.21 Mbit/s

95th percentile per-packet one-way delay: 1.164 ms

Loss rate: 0.01%

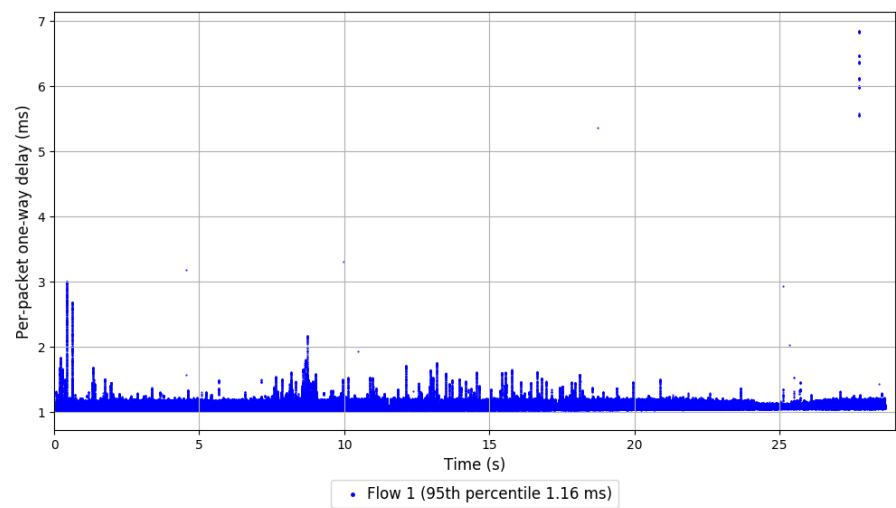
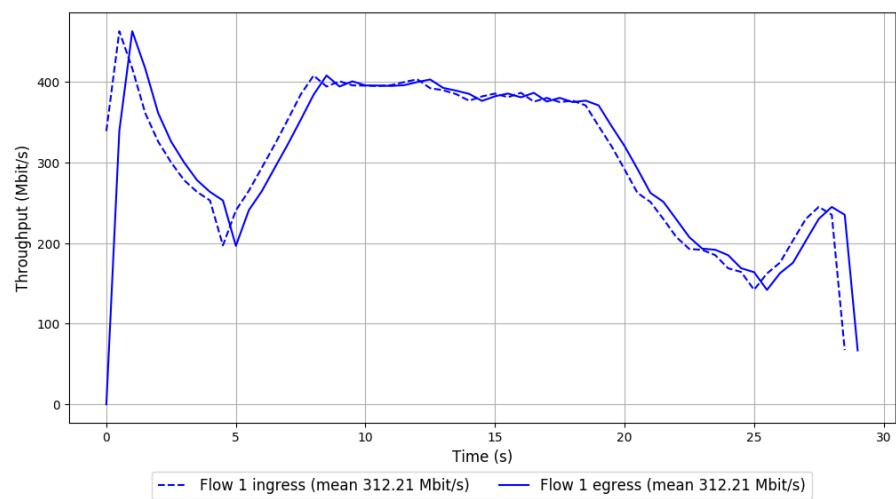
-- Flow 1:

Average throughput: 312.21 Mbit/s

95th percentile per-packet one-way delay: 1.164 ms

Loss rate: 0.01%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-03-09 08:23:35

End at: 2019-03-09 08:24:05

Local clock offset: 0.385 ms

Remote clock offset: 2.955 ms

Below is generated by plot.py at 2019-03-09 10:51:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 305.94 Mbit/s

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

Loss rate: 0.00%

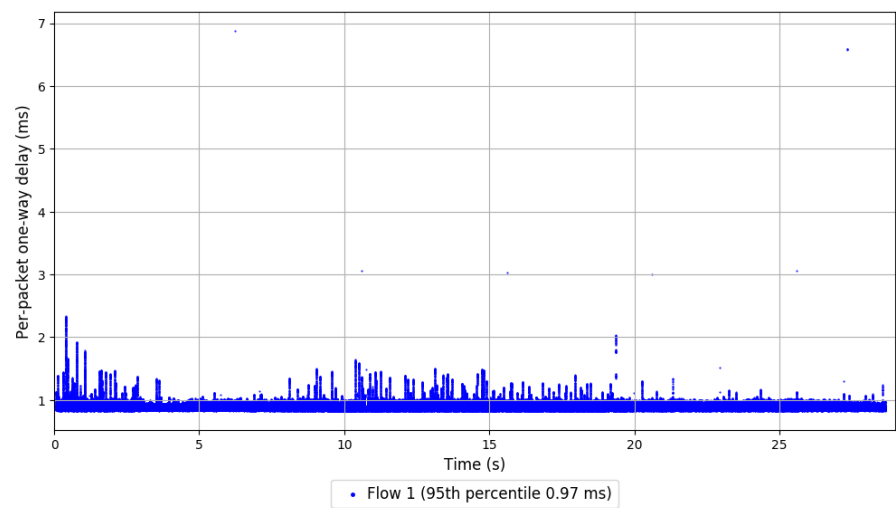
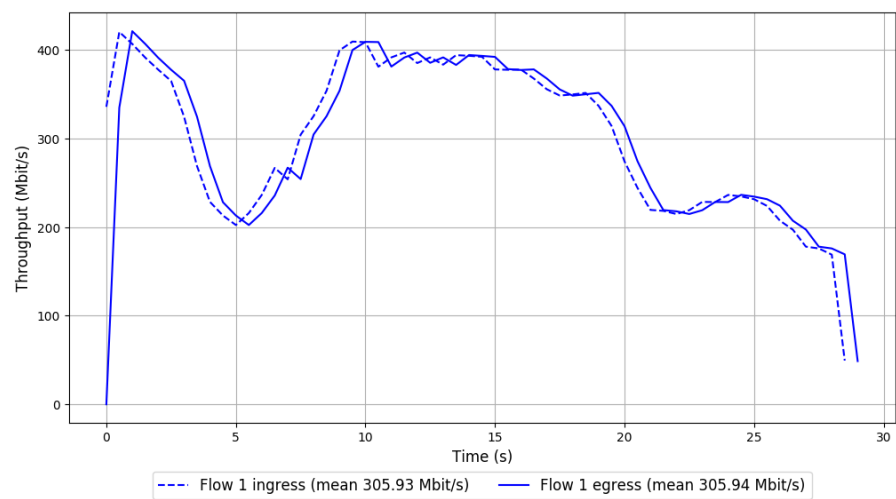
-- Flow 1:

Average throughput: 305.94 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-03-09 08:53:27

End at: 2019-03-09 08:53:57

Local clock offset: 0.476 ms

Remote clock offset: 2.755 ms

Below is generated by plot.py at 2019-03-09 10:51:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.67 Mbit/s

95th percentile per-packet one-way delay: 1.077 ms

Loss rate: 0.01%

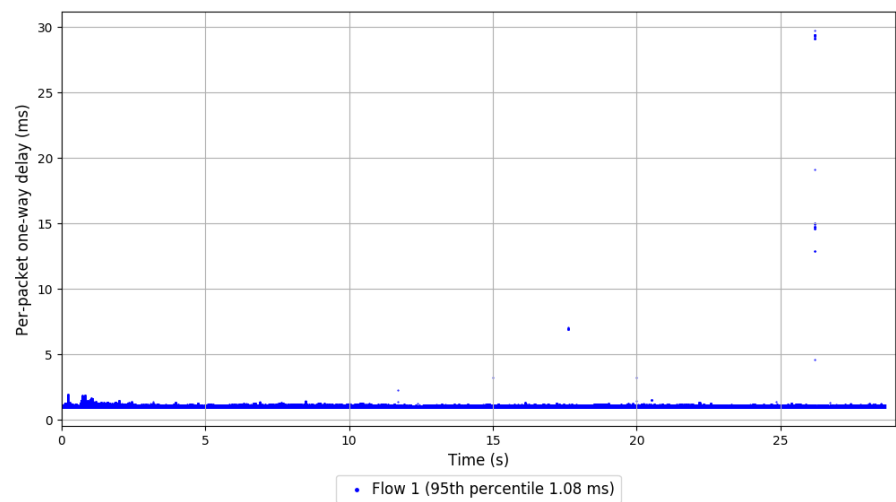
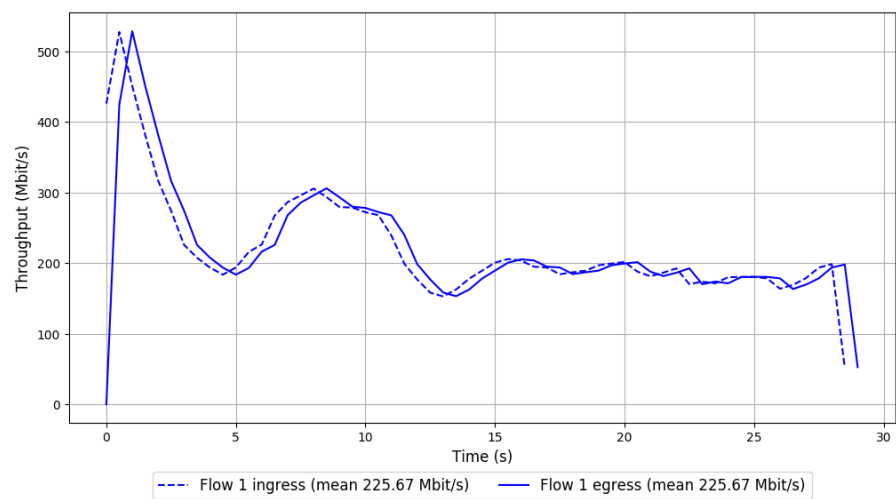
-- Flow 1:

Average throughput: 225.67 Mbit/s

95th percentile per-packet one-way delay: 1.077 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-03-09 09:23:02

End at: 2019-03-09 09:23:33

Local clock offset: 0.43 ms

Remote clock offset: 2.241 ms

Below is generated by plot.py at 2019-03-09 10:51:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 292.56 Mbit/s

95th percentile per-packet one-way delay: 1.063 ms

Loss rate: 0.01%

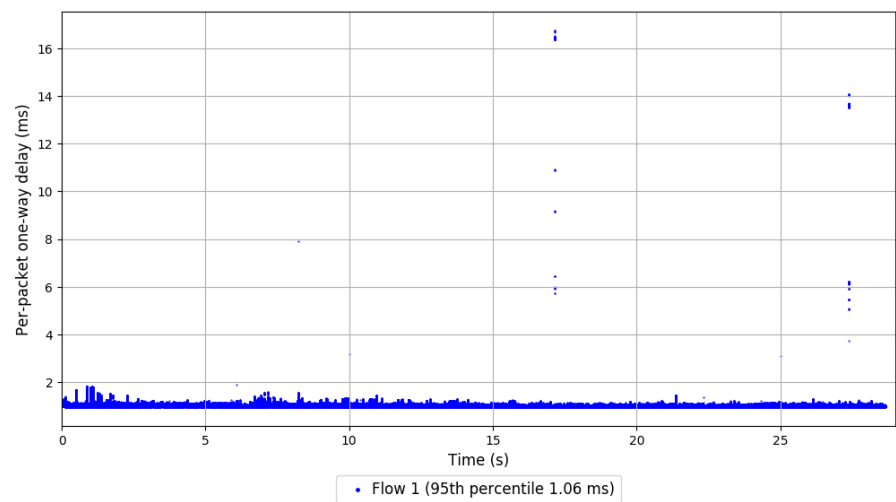
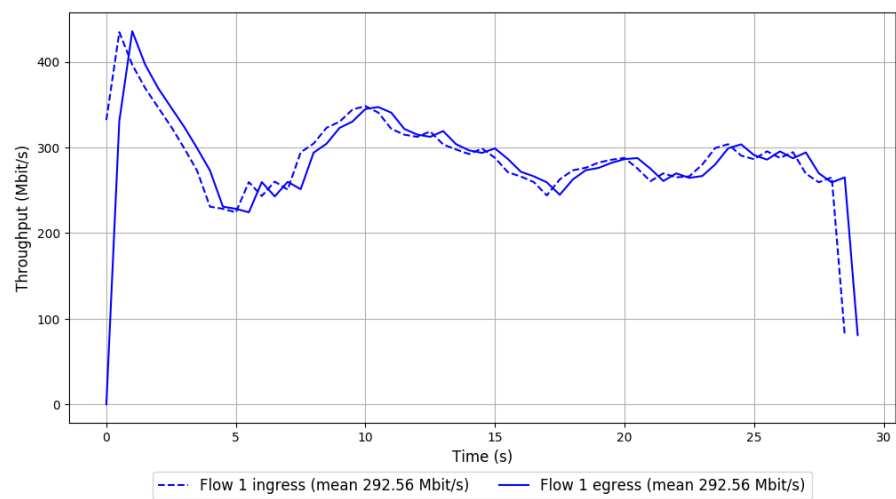
-- Flow 1:

Average throughput: 292.56 Mbit/s

95th percentile per-packet one-way delay: 1.063 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-03-09 09:52:40

End at: 2019-03-09 09:53:10

Local clock offset: 2.34 ms

Remote clock offset: 2.076 ms

Below is generated by plot.py at 2019-03-09 10:51:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 246.78 Mbit/s

95th percentile per-packet one-way delay: 0.968 ms

Loss rate: 0.00%

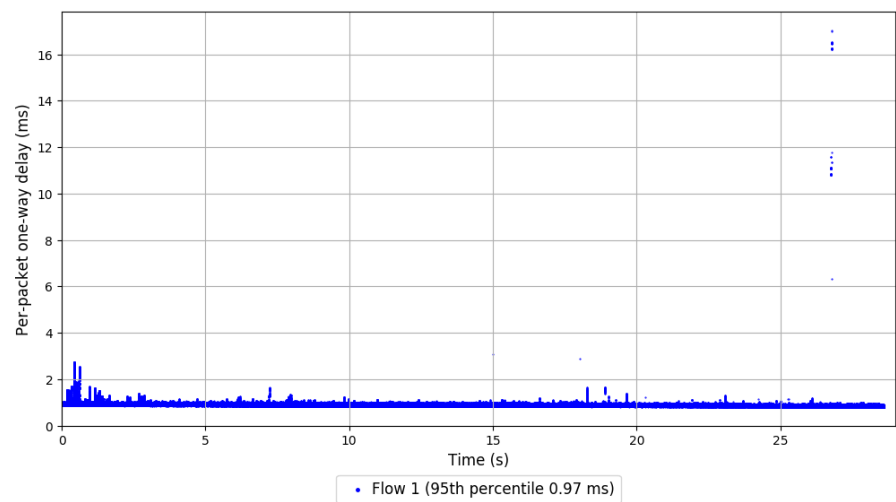
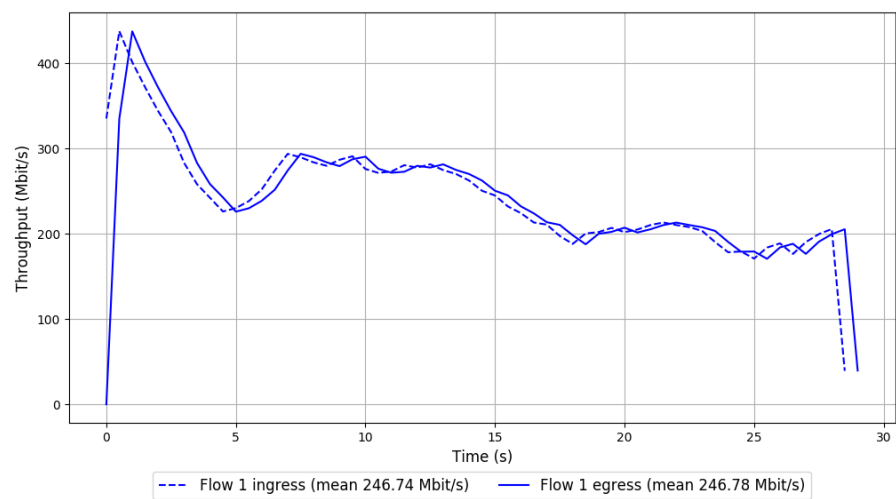
-- Flow 1:

Average throughput: 246.78 Mbit/s

95th percentile per-packet one-way delay: 0.968 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-03-09 07:55:37

End at: 2019-03-09 07:56:07

Local clock offset: 0.178 ms

Remote clock offset: 2.908 ms

Below is generated by plot.py at 2019-03-09 10:51:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.94 Mbit/s

95th percentile per-packet one-way delay: 0.967 ms

Loss rate: 0.00%

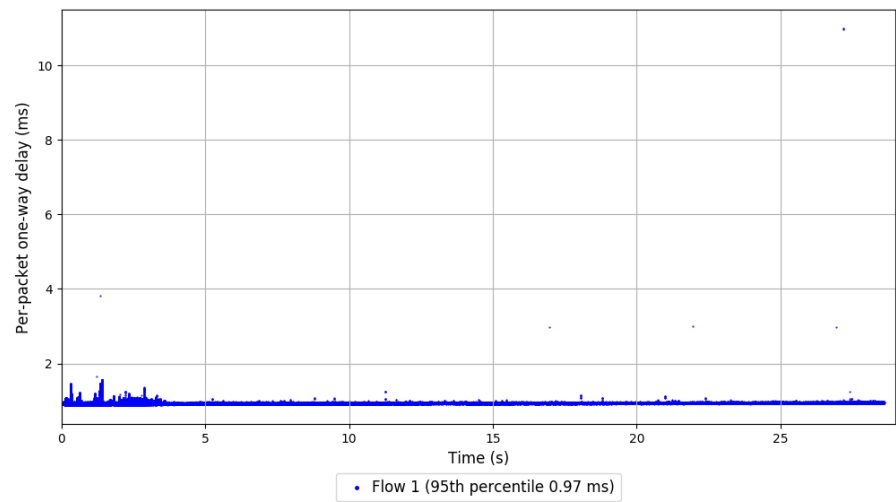
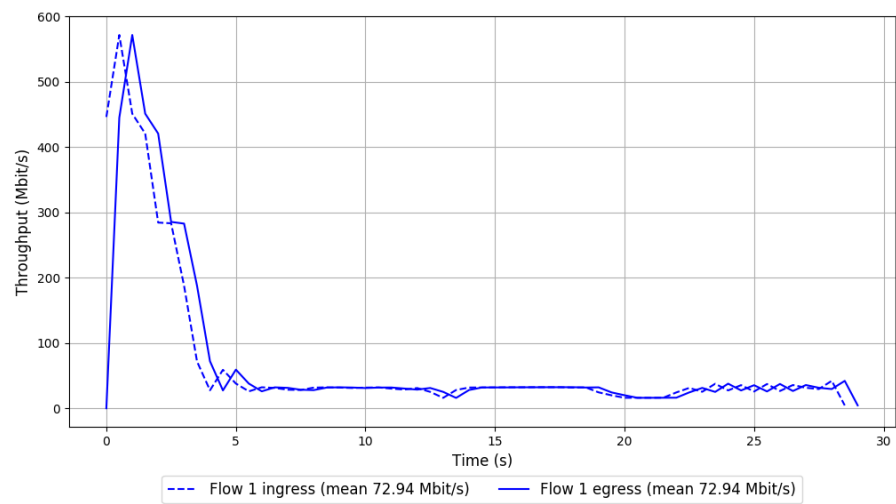
-- Flow 1:

Average throughput: 72.94 Mbit/s

95th percentile per-packet one-way delay: 0.967 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-03-09 08:24:58

End at: 2019-03-09 08:25:28

Local clock offset: 0.422 ms

Remote clock offset: 2.938 ms

Below is generated by plot.py at 2019-03-09 10:51:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.37 Mbit/s

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

Loss rate: 0.00%

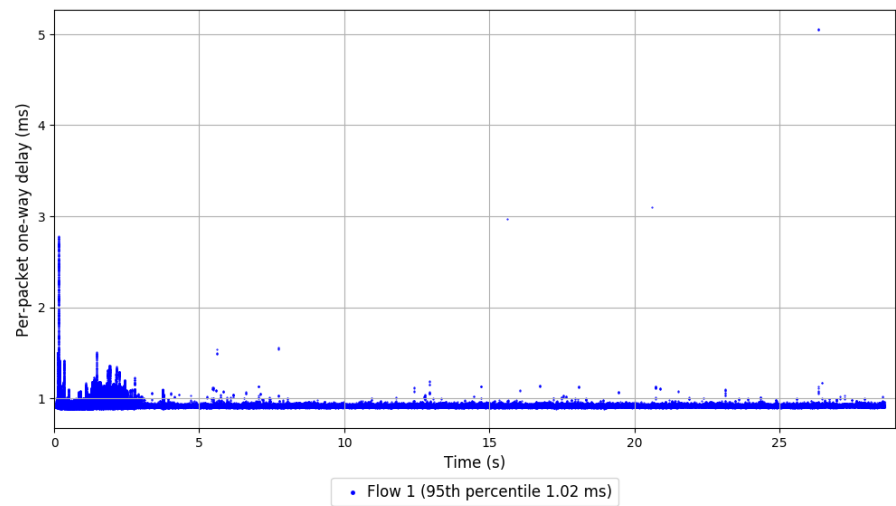
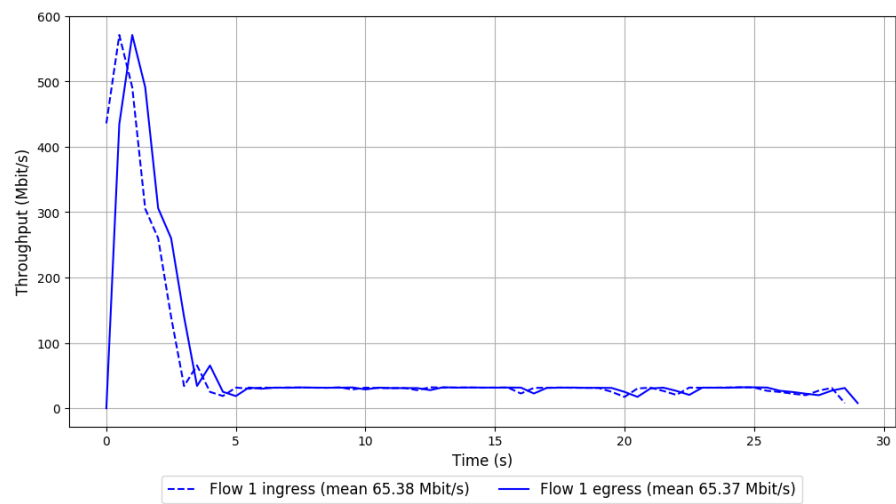
-- Flow 1:

Average throughput: 65.37 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-03-09 08:54:47

End at: 2019-03-09 08:55:17

Local clock offset: 0.479 ms

Remote clock offset: 2.746 ms

Below is generated by plot.py at 2019-03-09 10:51:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 265.63 Mbit/s

95th percentile per-packet one-way delay: 1.066 ms

Loss rate: 0.00%

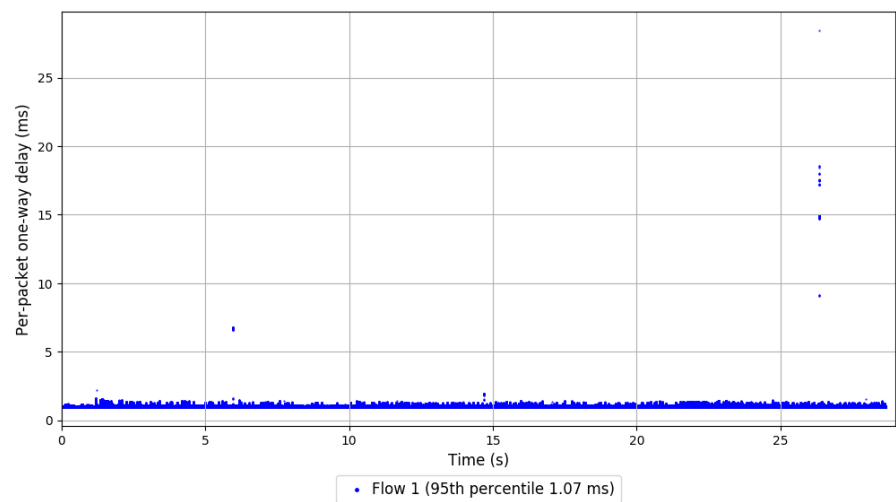
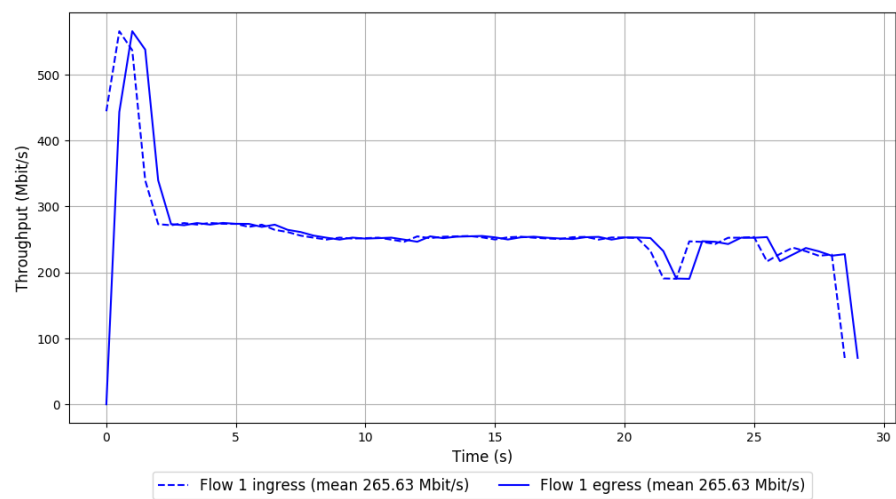
-- Flow 1:

Average throughput: 265.63 Mbit/s

95th percentile per-packet one-way delay: 1.066 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-03-09 09:24:25

End at: 2019-03-09 09:24:55

Local clock offset: 0.436 ms

Remote clock offset: 2.187 ms

Below is generated by plot.py at 2019-03-09 10:51:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 123.07 Mbit/s

95th percentile per-packet one-way delay: 1.099 ms

Loss rate: 0.01%

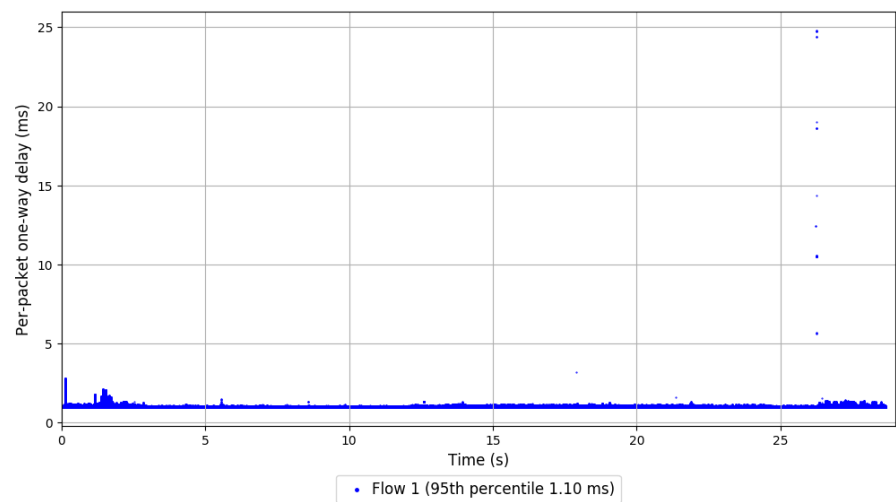
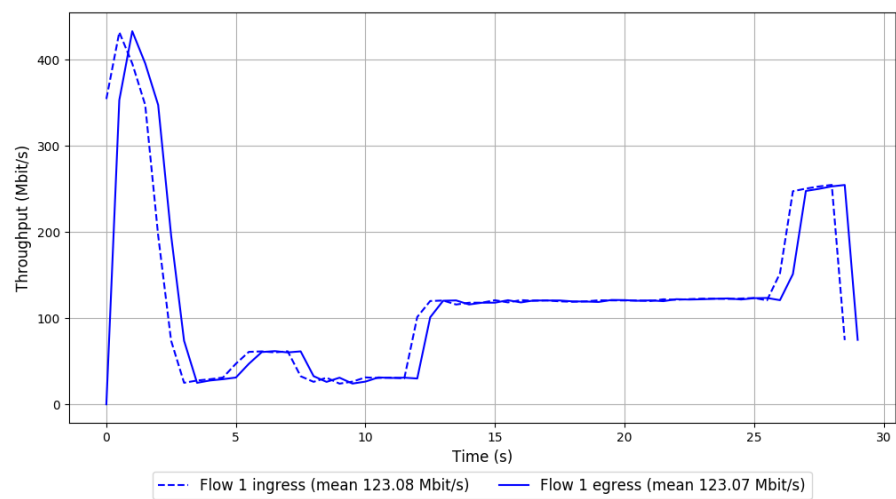
-- Flow 1:

Average throughput: 123.07 Mbit/s

95th percentile per-packet one-way delay: 1.099 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-03-09 09:54:00

End at: 2019-03-09 09:54:30

Local clock offset: 2.508 ms

Remote clock offset: 2.079 ms

Below is generated by plot.py at 2019-03-09 10:51:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.33 Mbit/s

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

Loss rate: 0.00%

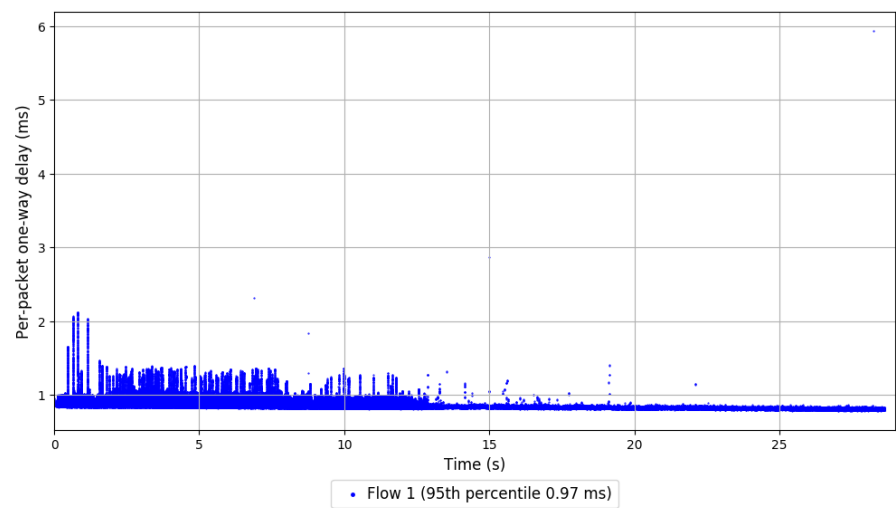
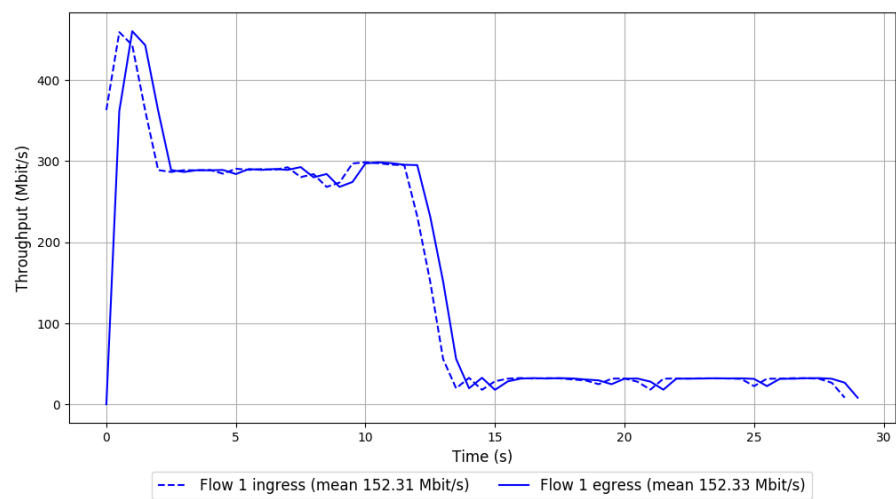
-- Flow 1:

Average throughput: 152.33 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-03-09 08:02:45

End at: 2019-03-09 08:03:15

Local clock offset: 0.07 ms

Remote clock offset: 3.054 ms

Below is generated by plot.py at 2019-03-09 10:51:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.93 Mbit/s

95th percentile per-packet one-way delay: 1.066 ms

Loss rate: 0.00%

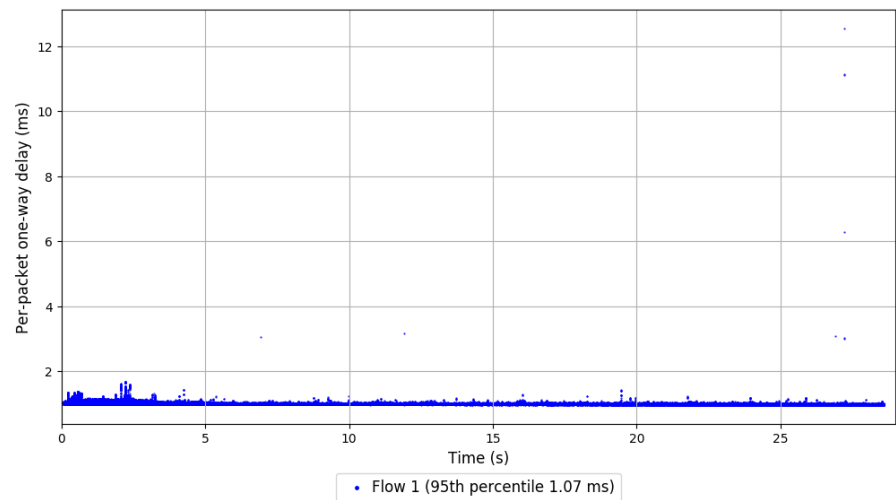
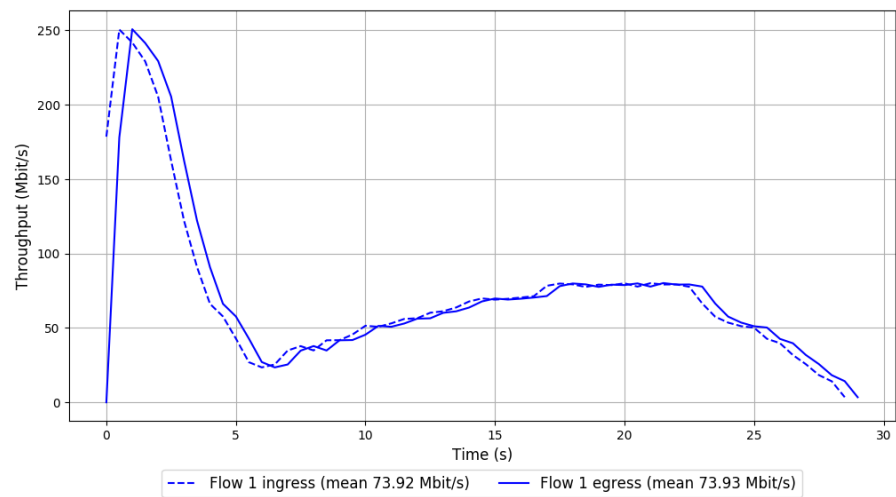
-- Flow 1:

Average throughput: 73.93 Mbit/s

95th percentile per-packet one-way delay: 1.066 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-03-09 08:32:07

End at: 2019-03-09 08:32:37

Local clock offset: 0.559 ms

Remote clock offset: 3.113 ms

Below is generated by plot.py at 2019-03-09 10:51:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.03 Mbit/s

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

Loss rate: 0.01%

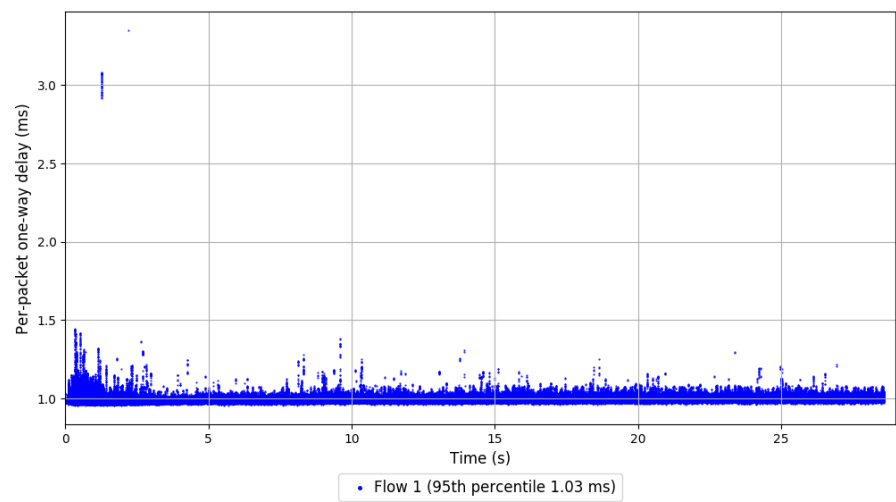
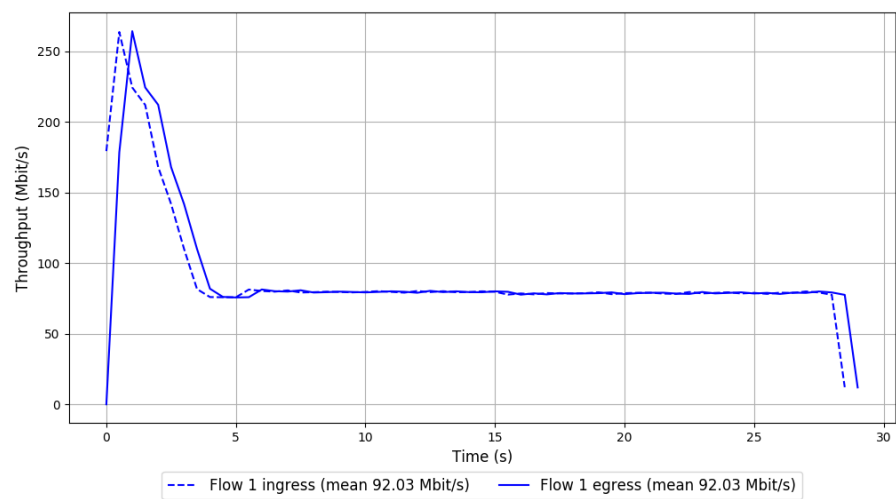
-- Flow 1:

Average throughput: 92.03 Mbit/s

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

Loss rate: 0.01%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

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

End at: 2019-03-09 09:02:33

Local clock offset: 0.429 ms

Remote clock offset: 2.859 ms

Below is generated by plot.py at 2019-03-09 10:51:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.02 Mbit/s

95th percentile per-packet one-way delay: 1.023 ms

Loss rate: 0.01%

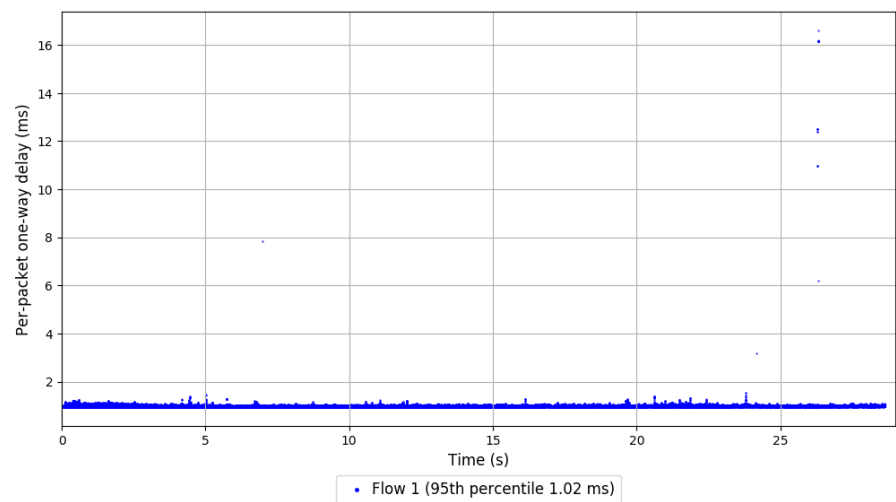
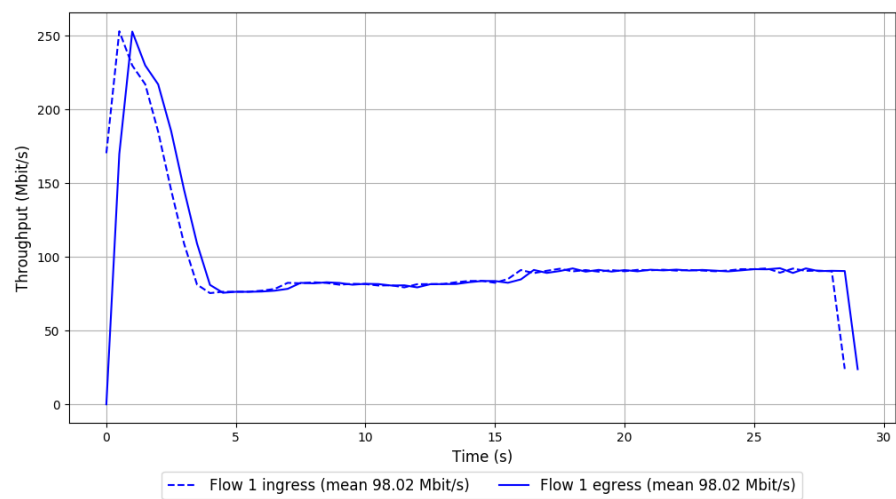
-- Flow 1:

Average throughput: 98.02 Mbit/s

95th percentile per-packet one-way delay: 1.023 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-03-09 09:31:36

End at: 2019-03-09 09:32:06

Local clock offset: 0.412 ms

Remote clock offset: 2.111 ms

Below is generated by plot.py at 2019-03-09 10:51:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.59 Mbit/s

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

Loss rate: 0.01%

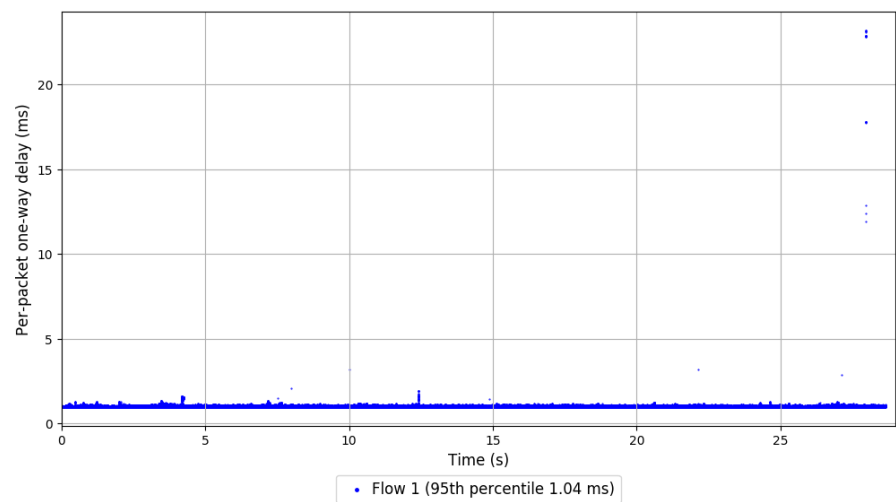
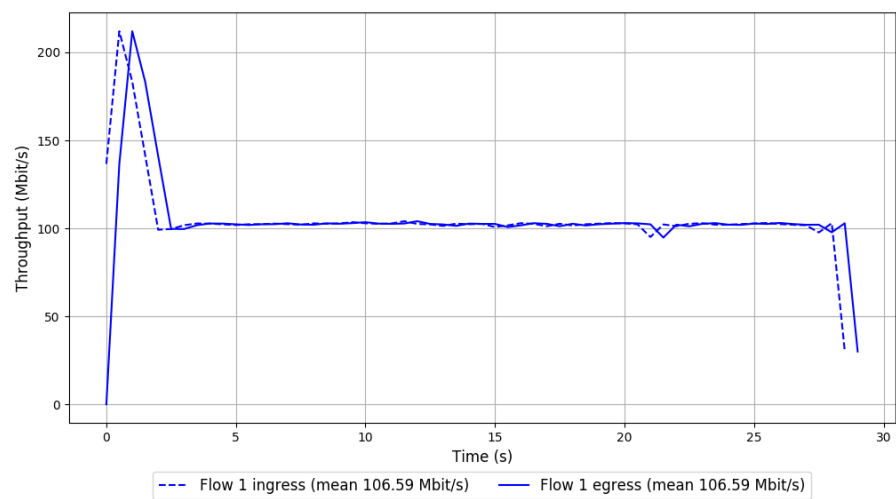
-- Flow 1:

Average throughput: 106.59 Mbit/s

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

Loss rate: 0.01%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-03-09 10:01:11

End at: 2019-03-09 10:01:41

Local clock offset: 3.292 ms

Remote clock offset: 2.155 ms

Below is generated by plot.py at 2019-03-09 10:51:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.71 Mbit/s

95th percentile per-packet one-way delay: 0.938 ms

Loss rate: 0.01%

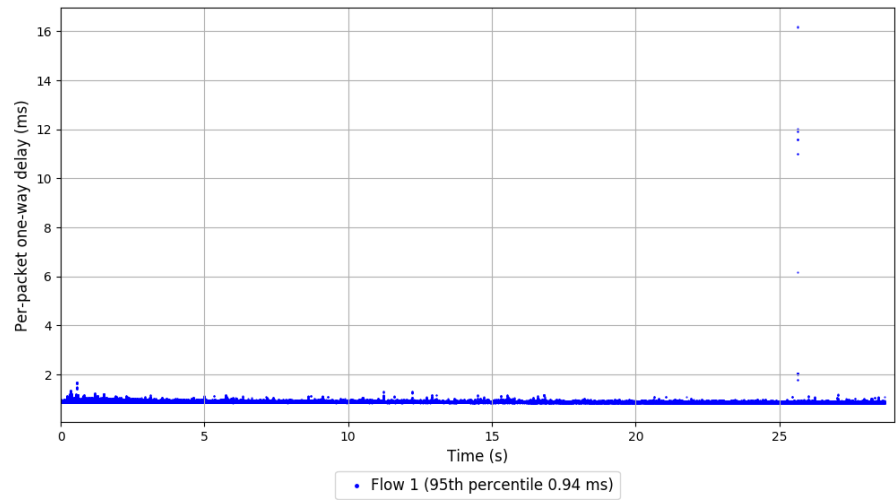
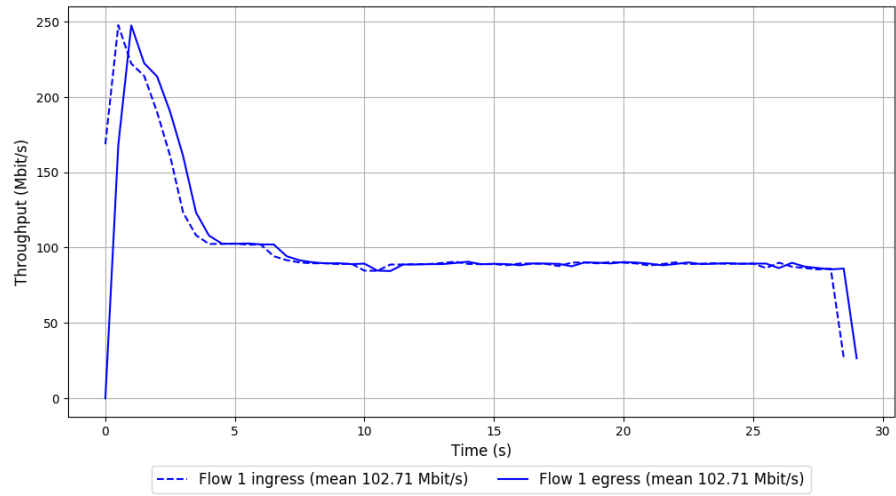
-- Flow 1:

Average throughput: 102.71 Mbit/s

95th percentile per-packet one-way delay: 0.938 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-03-09 07:35:49

End at: 2019-03-09 07:36:19

Local clock offset: 0.539 ms

Remote clock offset: 2.261 ms

Below is generated by plot.py at 2019-03-09 10:51:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.54 Mbit/s

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

Loss rate: 0.01%

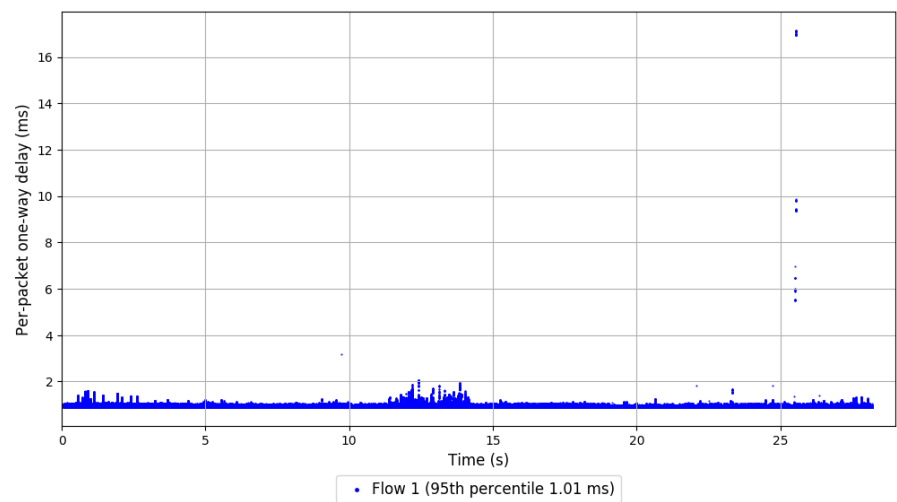
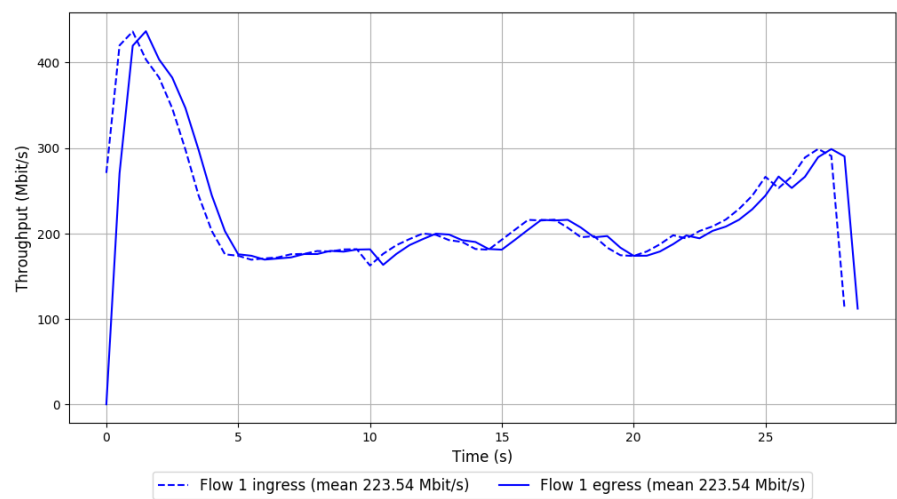
-- Flow 1:

Average throughput: 223.54 Mbit/s

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

Loss rate: 0.01%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-03-09 08:05:32

End at: 2019-03-09 08:06:02

Local clock offset: 0.066 ms

Remote clock offset: 2.894 ms

Below is generated by plot.py at 2019-03-09 10:51:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 229.66 Mbit/s

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

Loss rate: 0.00%

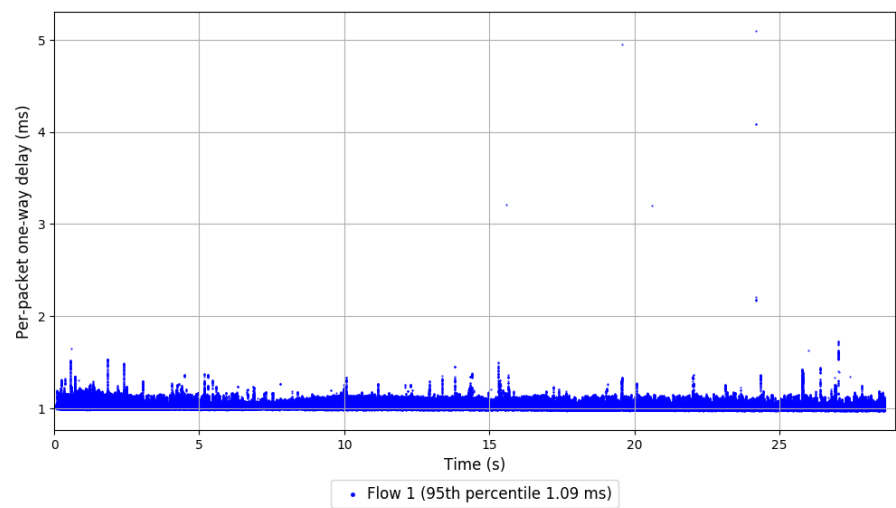
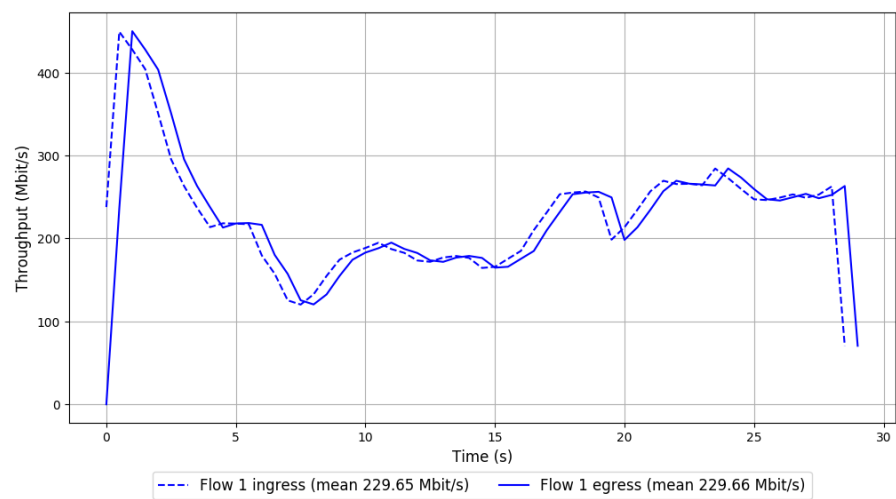
-- Flow 1:

Average throughput: 229.66 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-03-09 08:34:55

End at: 2019-03-09 08:35:25

Local clock offset: 0.572 ms

Remote clock offset: 3.174 ms

Below is generated by plot.py at 2019-03-09 10:51:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 257.63 Mbit/s

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

Loss rate: 0.00%

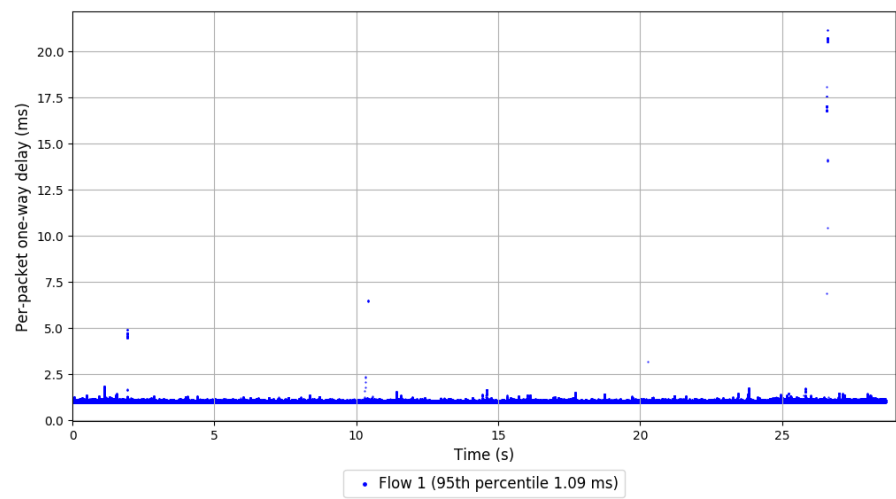
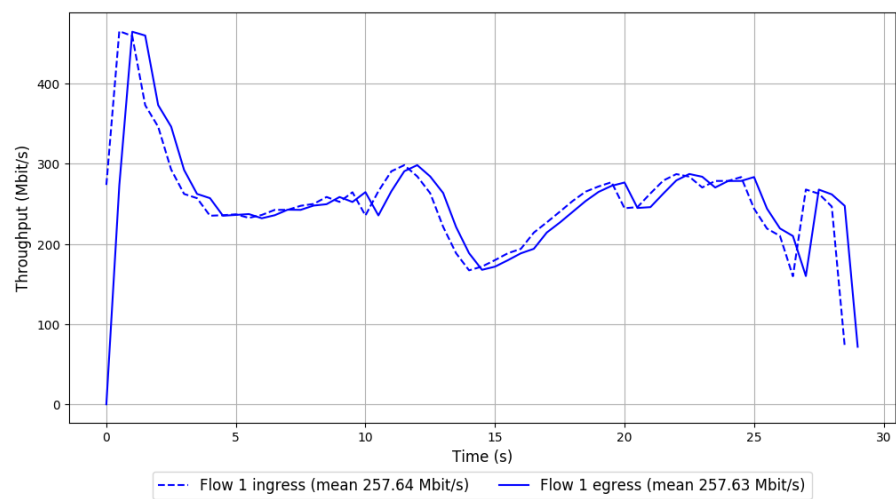
-- Flow 1:

Average throughput: 257.63 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-03-09 09:04:39

End at: 2019-03-09 09:05:09

Local clock offset: 0.414 ms

Remote clock offset: 2.922 ms

Below is generated by plot.py at 2019-03-09 10:51:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 246.38 Mbit/s

95th percentile per-packet one-way delay: 1.026 ms

Loss rate: 0.01%

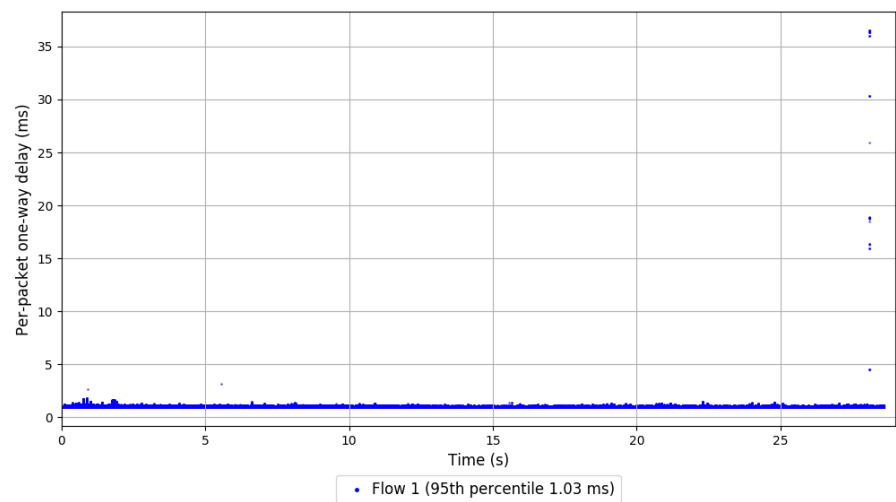
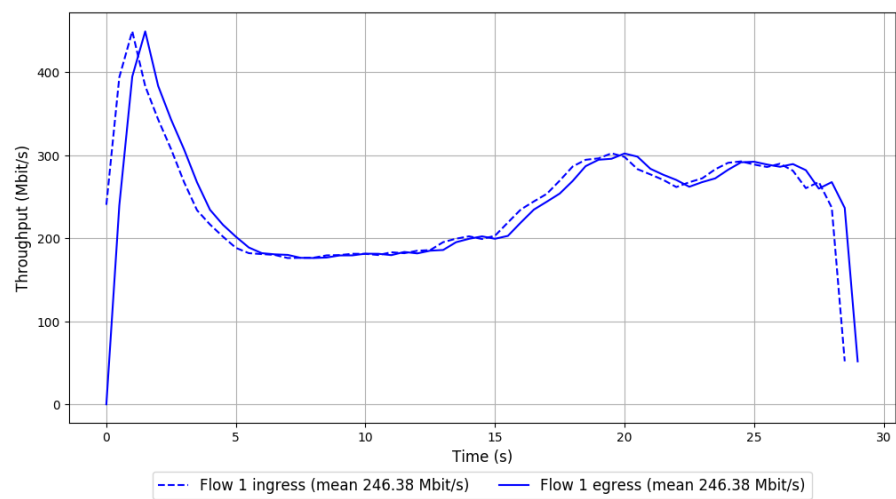
-- Flow 1:

Average throughput: 246.38 Mbit/s

95th percentile per-packet one-way delay: 1.026 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-03-09 09:34:23

End at: 2019-03-09 09:34:53

Local clock offset: 0.415 ms

Remote clock offset: 2.186 ms

Below is generated by plot.py at 2019-03-09 10:51:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 267.07 Mbit/s

95th percentile per-packet one-way delay: 0.975 ms

Loss rate: 0.01%

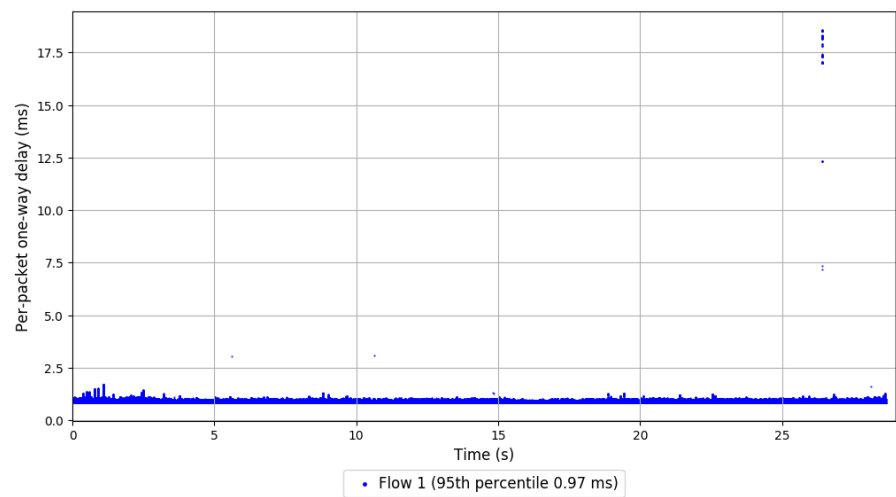
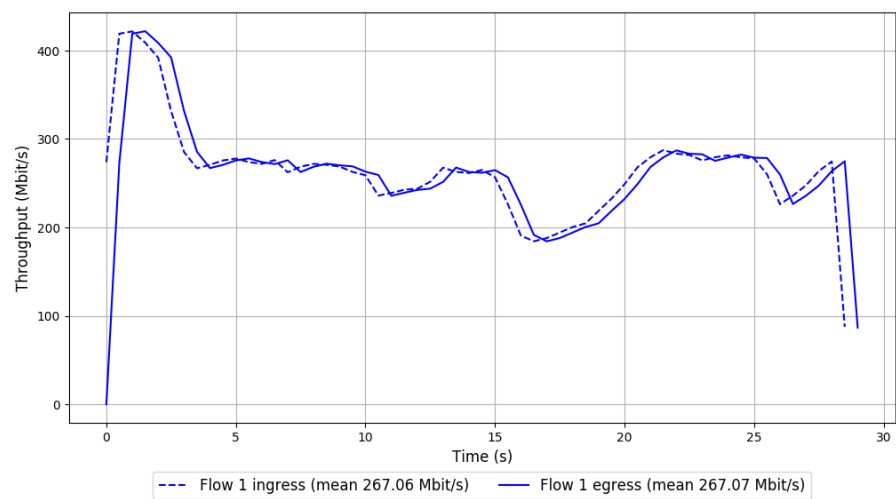
-- Flow 1:

Average throughput: 267.07 Mbit/s

95th percentile per-packet one-way delay: 0.975 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2019-03-09 07:56:53

End at: 2019-03-09 07:57:23

Local clock offset: 0.162 ms

Remote clock offset: 2.911 ms

Below is generated by plot.py at 2019-03-09 10:52:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 546.73 Mbit/s

95th percentile per-packet one-way delay: 14.382 ms

Loss rate: 0.03%

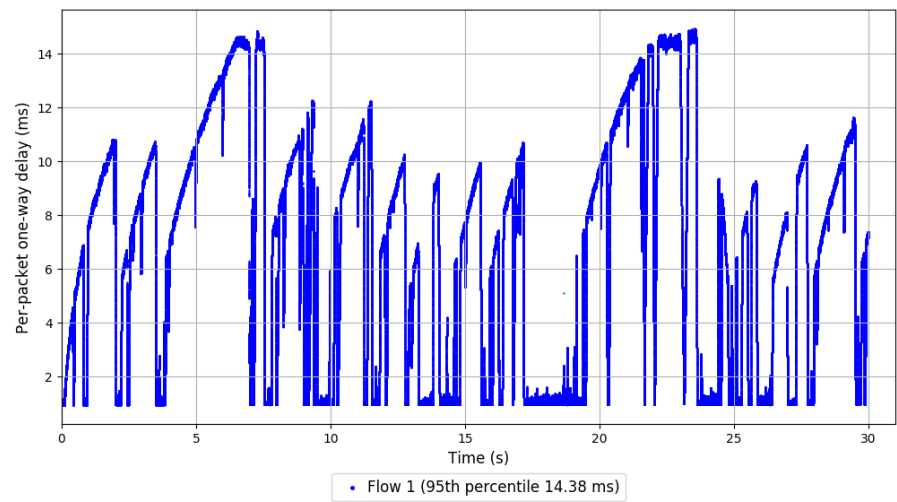
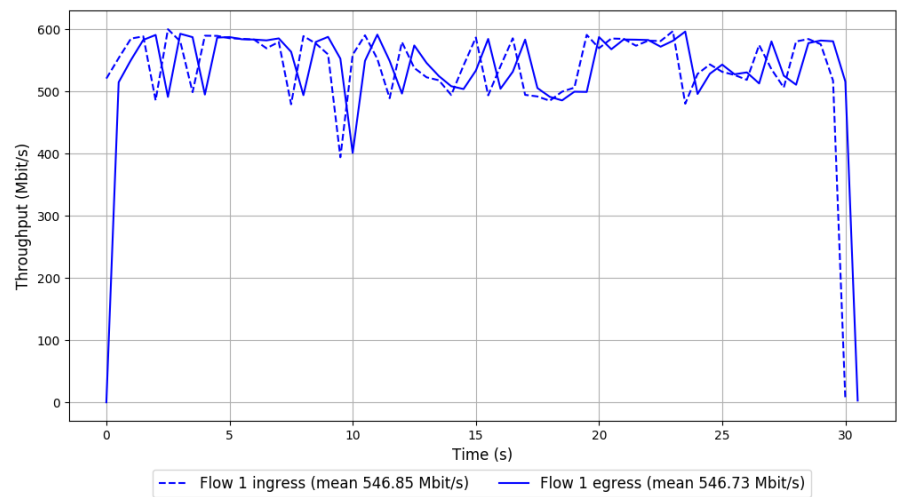
-- Flow 1:

Average throughput: 546.73 Mbit/s

95th percentile per-packet one-way delay: 14.382 ms

Loss rate: 0.03%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-03-09 08:26:13

End at: 2019-03-09 08:26:43

Local clock offset: 0.462 ms

Remote clock offset: 2.977 ms

Below is generated by plot.py at 2019-03-09 10:53:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 579.21 Mbit/s

95th percentile per-packet one-way delay: 4.841 ms

Loss rate: 0.01%

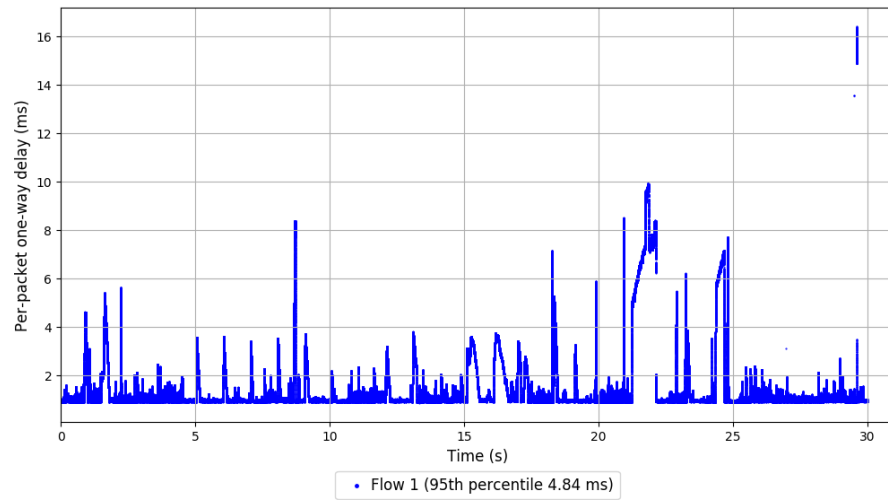
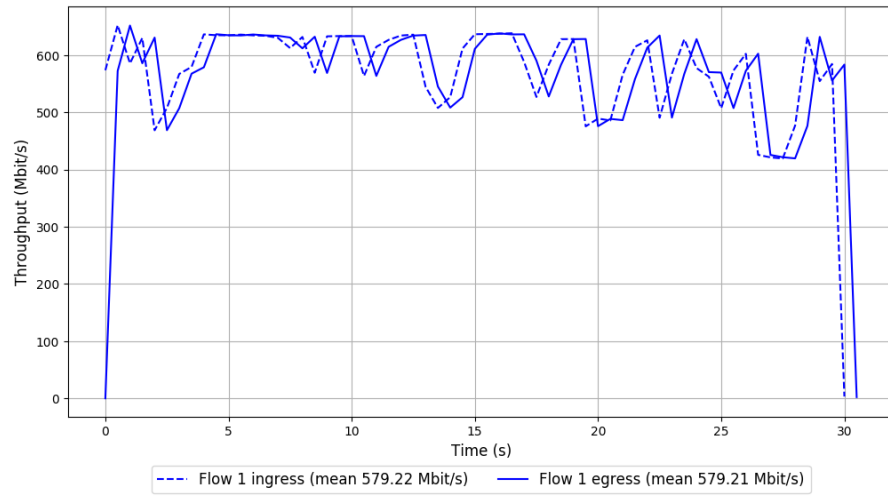
-- Flow 1:

Average throughput: 579.21 Mbit/s

95th percentile per-packet one-way delay: 4.841 ms

Loss rate: 0.01%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-03-09 08:56:09

End at: 2019-03-09 08:56:39

Local clock offset: 0.451 ms

Remote clock offset: 2.762 ms

Below is generated by plot.py at 2019-03-09 10:54:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 519.28 Mbit/s

95th percentile per-packet one-way delay: 14.157 ms

Loss rate: 0.06%

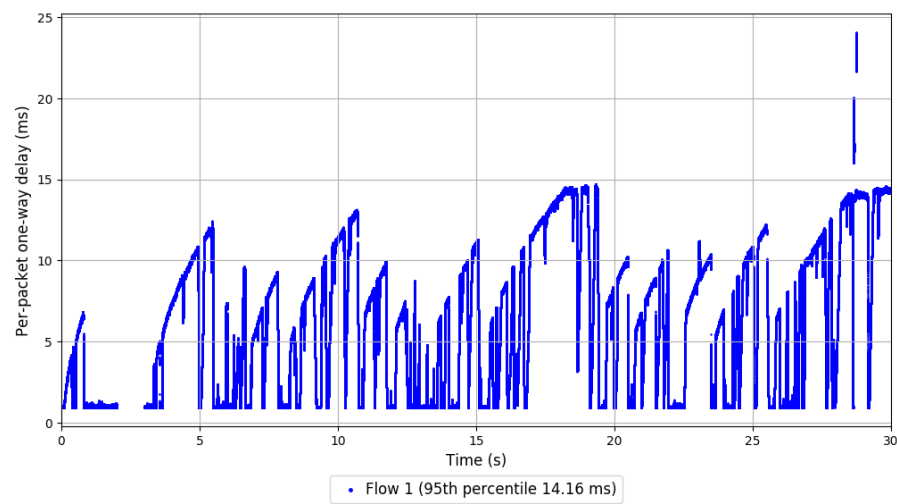
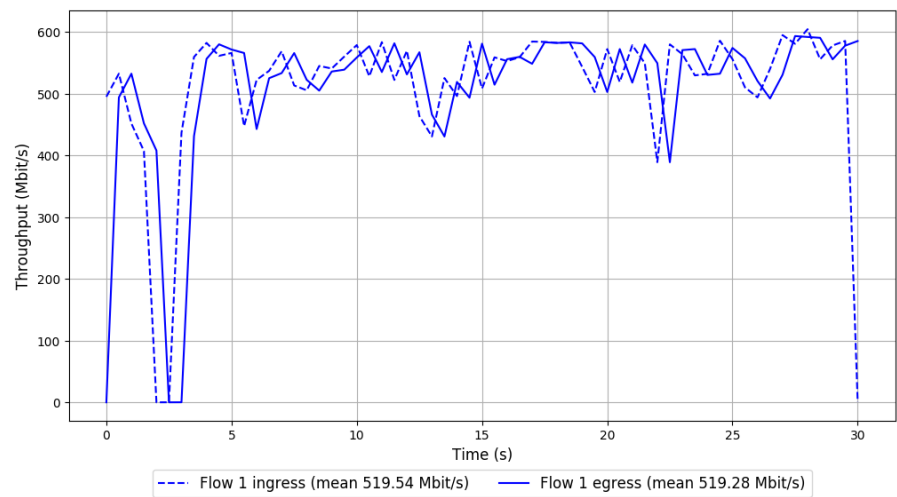
-- Flow 1:

Average throughput: 519.28 Mbit/s

95th percentile per-packet one-way delay: 14.157 ms

Loss rate: 0.06%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-03-09 09:25:42

End at: 2019-03-09 09:26:12

Local clock offset: 0.417 ms

Remote clock offset: 2.17 ms

Below is generated by plot.py at 2019-03-09 10:55:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 583.62 Mbit/s

95th percentile per-packet one-way delay: 4.073 ms

Loss rate: 0.00%

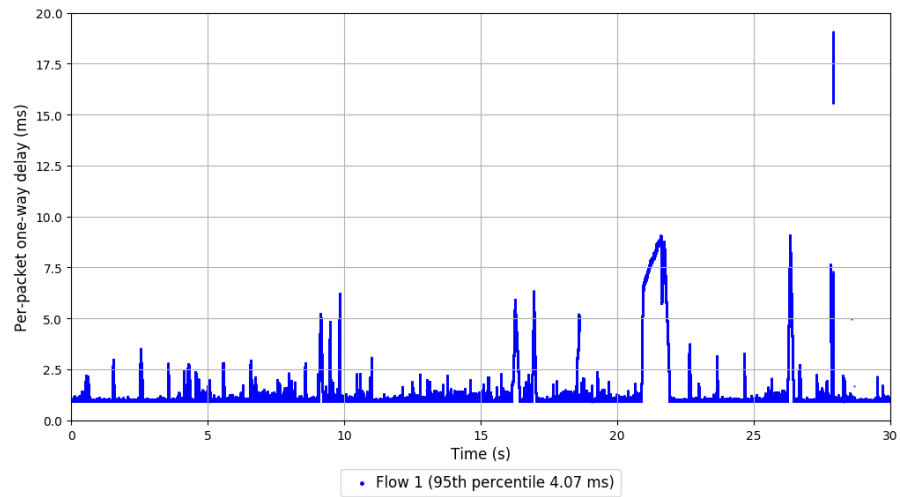
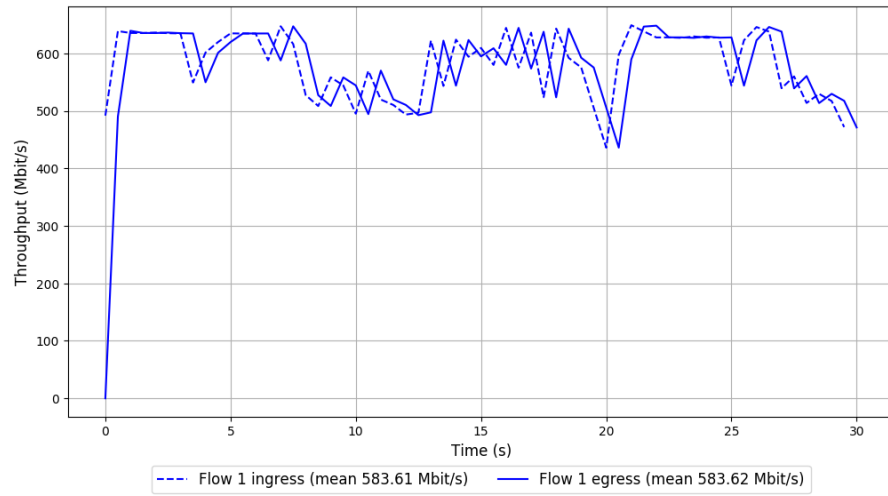
-- Flow 1:

Average throughput: 583.62 Mbit/s

95th percentile per-packet one-way delay: 4.073 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-03-09 09:55:18

End at: 2019-03-09 09:55:48

Local clock offset: 2.72 ms

Remote clock offset: 2.191 ms

Below is generated by plot.py at 2019-03-09 10:55:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 553.56 Mbit/s

95th percentile per-packet one-way delay: 2.354 ms

Loss rate: 0.00%

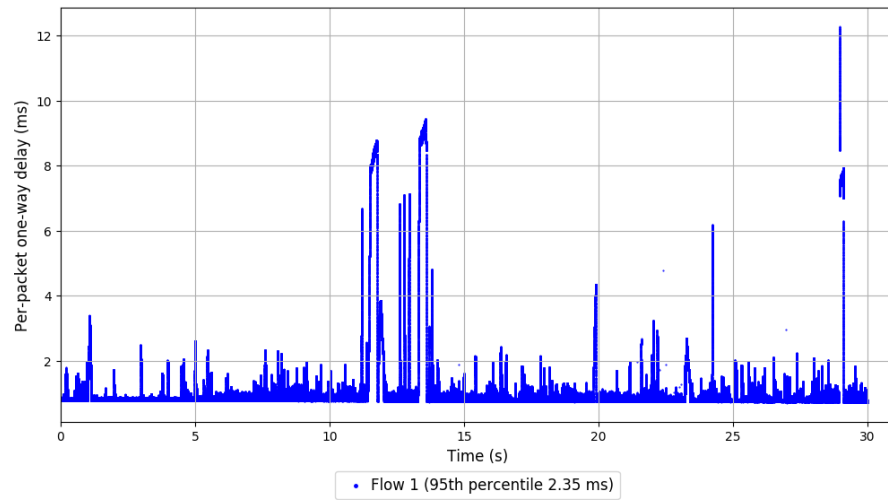
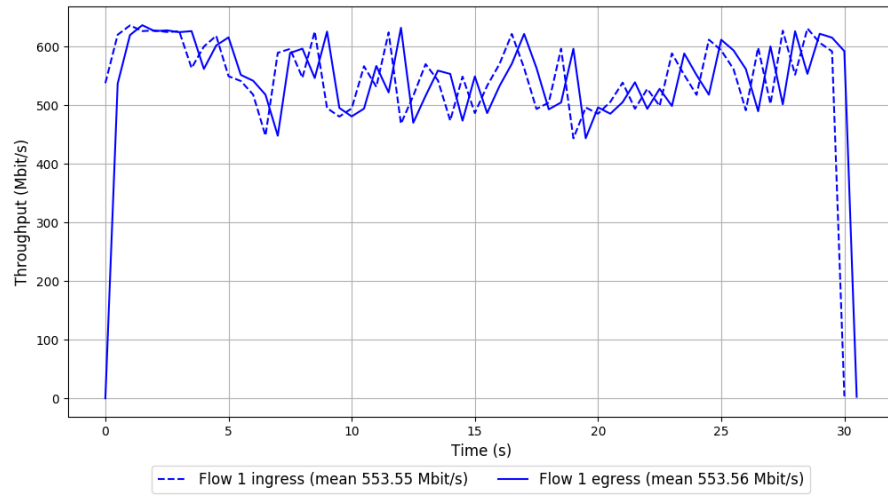
-- Flow 1:

Average throughput: 553.56 Mbit/s

95th percentile per-packet one-way delay: 2.354 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-03-09 08:04:01

End at: 2019-03-09 08:04:31

Local clock offset: 0.061 ms

Remote clock offset: 3.086 ms

Below is generated by plot.py at 2019-03-09 10:57:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 782.23 Mbit/s

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

Loss rate: 0.01%

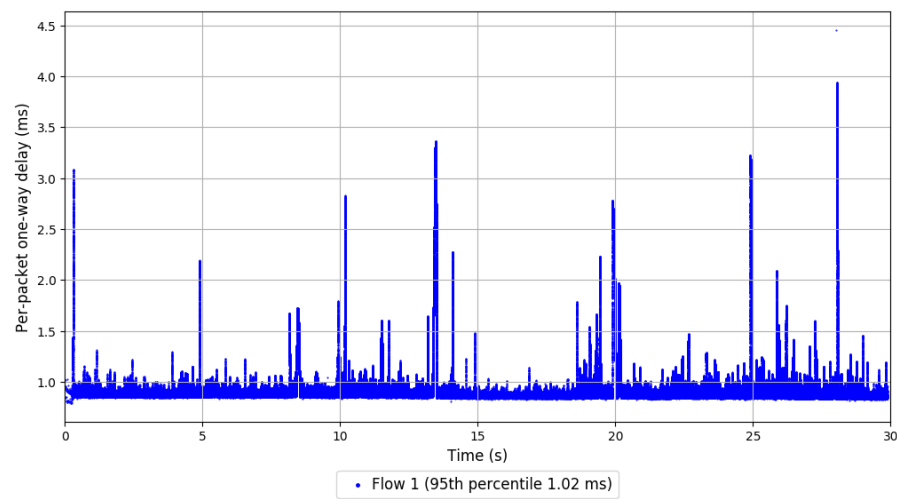
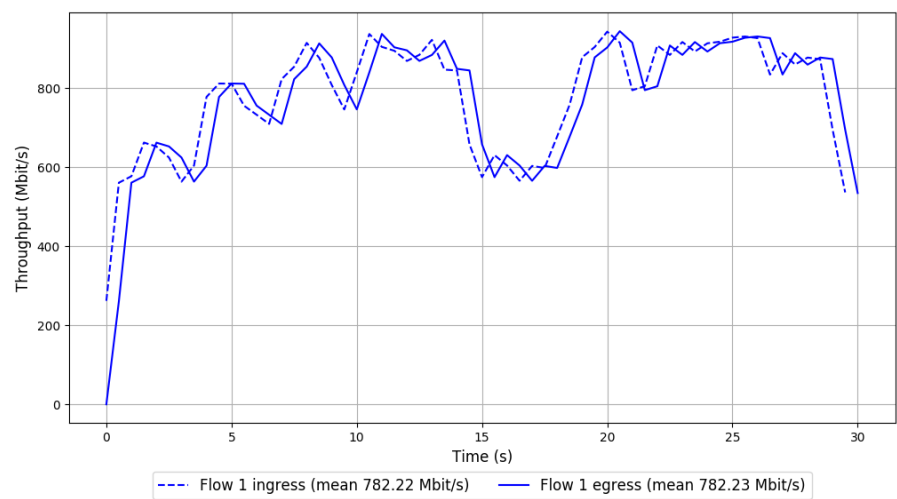
-- Flow 1:

Average throughput: 782.23 Mbit/s

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

Loss rate: 0.01%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-03-09 08:33:23

End at: 2019-03-09 08:33:53

Local clock offset: 0.576 ms

Remote clock offset: 3.237 ms

Below is generated by plot.py at 2019-03-09 10:58:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 815.96 Mbit/s

95th percentile per-packet one-way delay: 1.106 ms

Loss rate: 0.01%

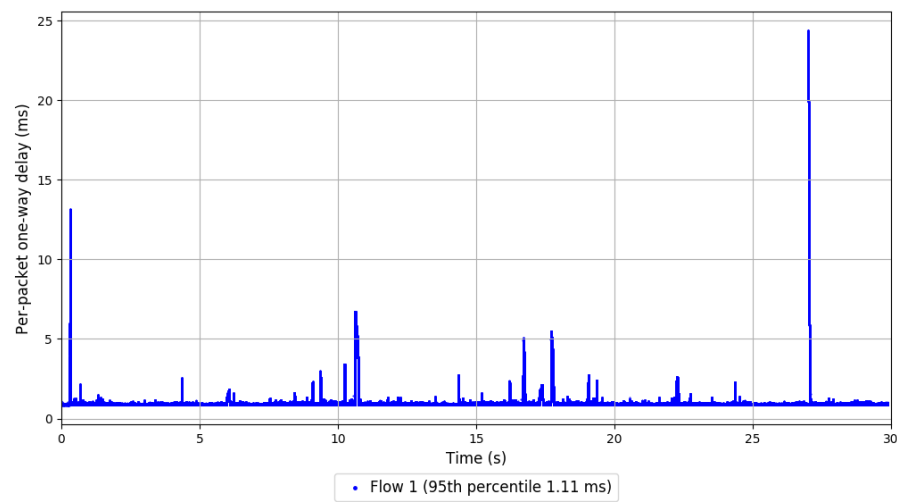
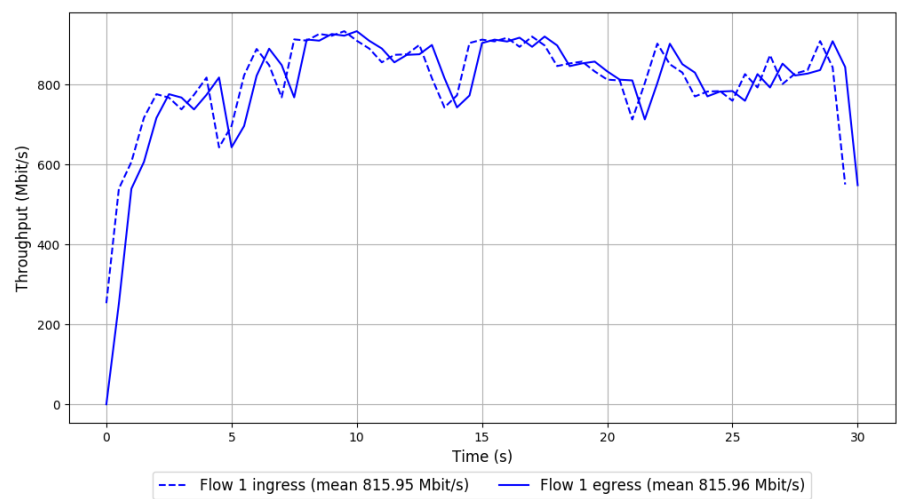
-- Flow 1:

Average throughput: 815.96 Mbit/s

95th percentile per-packet one-way delay: 1.106 ms

Loss rate: 0.01%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

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

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

Local clock offset: 0.429 ms

Remote clock offset: 2.979 ms

Below is generated by plot.py at 2019-03-09 10:58:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 303.50 Mbit/s

95th percentile per-packet one-way delay: 5.955 ms

Loss rate: 0.03%

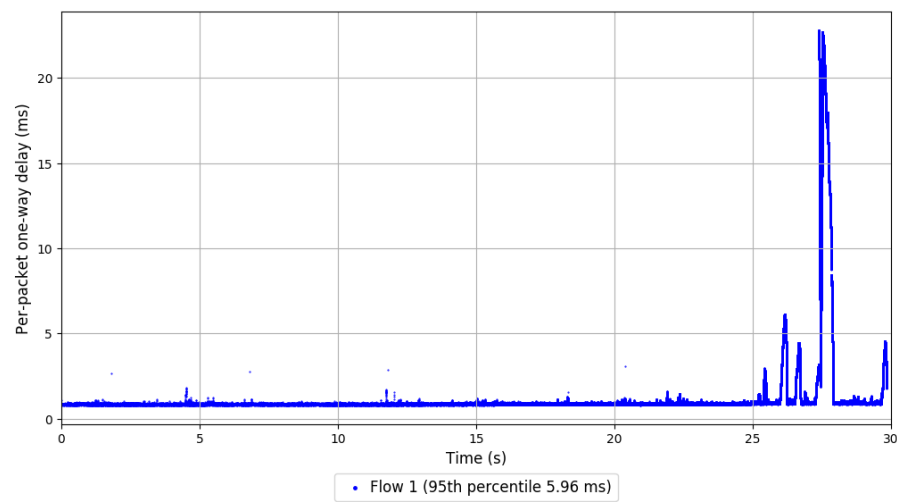
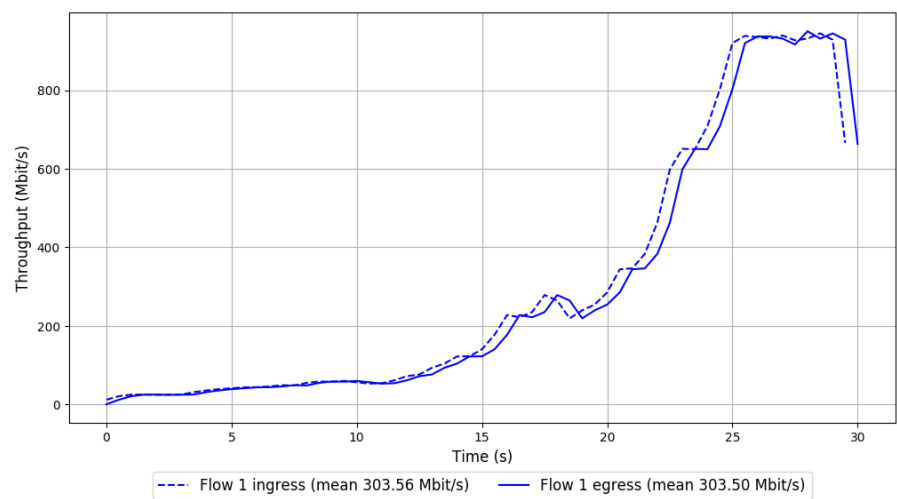
-- Flow 1:

Average throughput: 303.50 Mbit/s

95th percentile per-packet one-way delay: 5.955 ms

Loss rate: 0.03%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-03-09 09:32:53

End at: 2019-03-09 09:33:23

Local clock offset: 0.422 ms

Remote clock offset: 2.215 ms

Below is generated by plot.py at 2019-03-09 11:01:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 708.06 Mbit/s

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

Loss rate: 0.01%

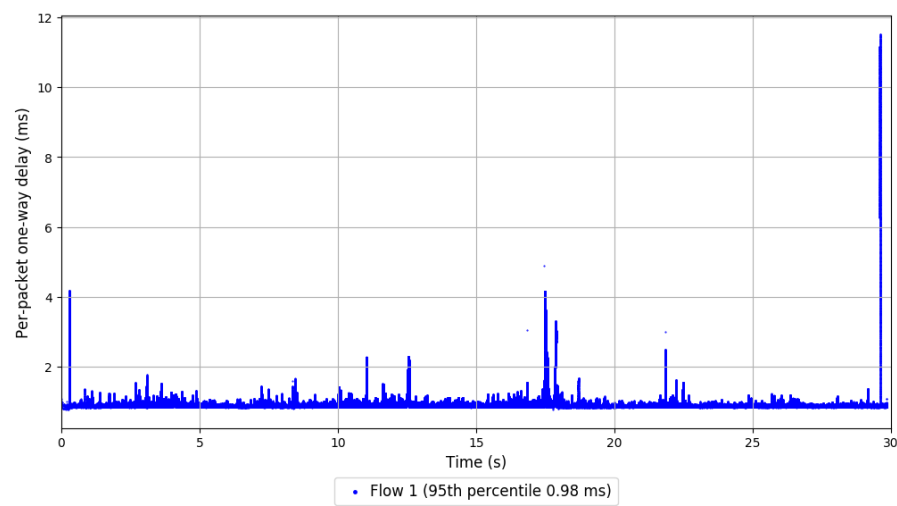
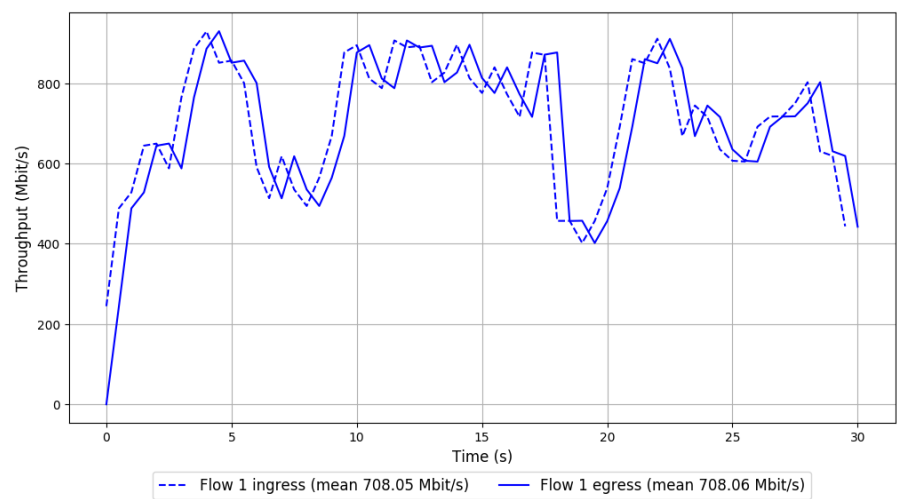
-- Flow 1:

Average throughput: 708.06 Mbit/s

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

Loss rate: 0.01%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-03-09 10:02:28

End at: 2019-03-09 10:02:58

Local clock offset: 3.393 ms

Remote clock offset: 2.224 ms

Below is generated by plot.py at 2019-03-09 11:02:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 792.86 Mbit/s

95th percentile per-packet one-way delay: 1.399 ms

Loss rate: 0.01%

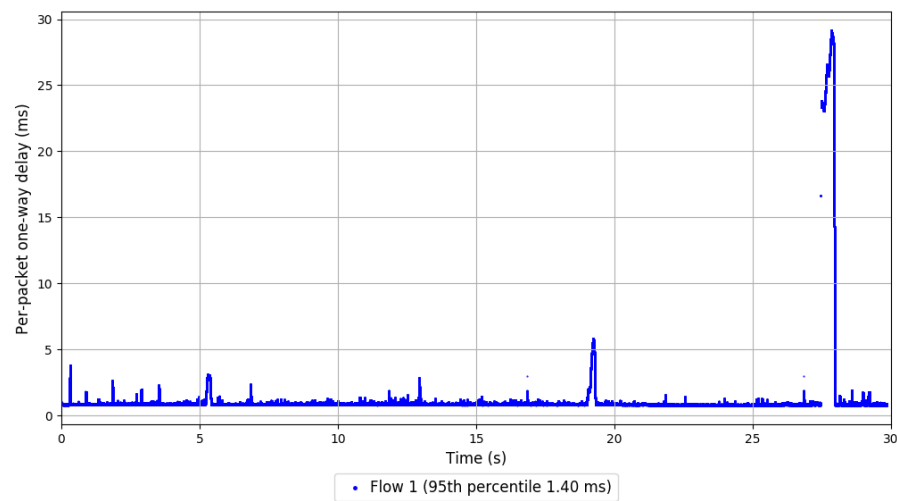
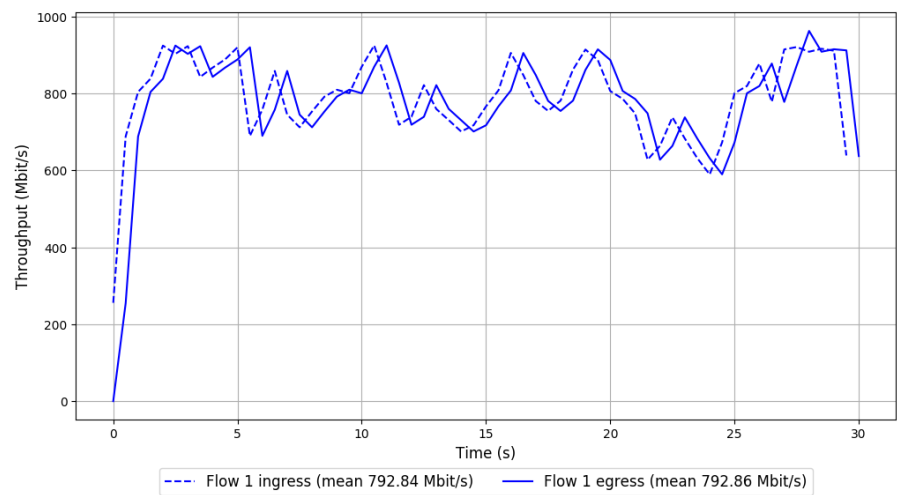
-- Flow 1:

Average throughput: 792.86 Mbit/s

95th percentile per-packet one-way delay: 1.399 ms

Loss rate: 0.01%

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2019-03-09 07:37:09

End at: 2019-03-09 07:37:39

Local clock offset: 0.53 ms

Remote clock offset: 2.215 ms

Below is generated by plot.py at 2019-03-09 11:02:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 300.38 Mbit/s

95th percentile per-packet one-way delay: 1.125 ms

Loss rate: 0.01%

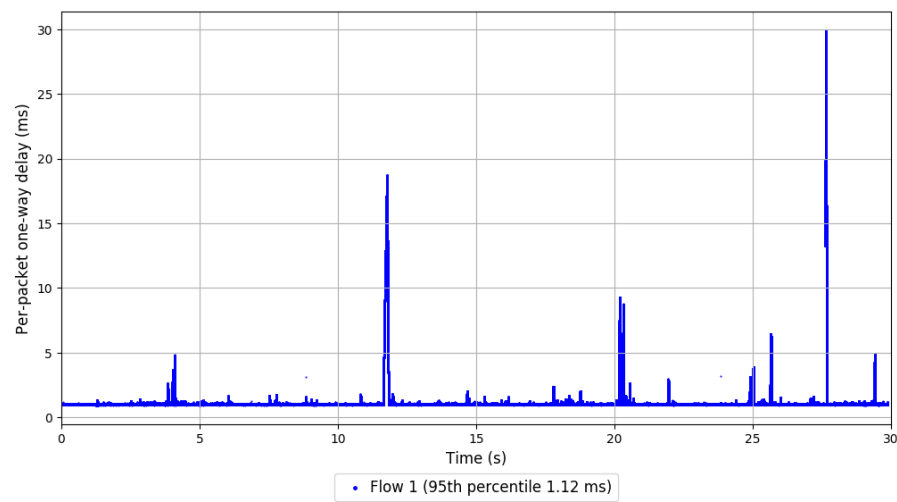
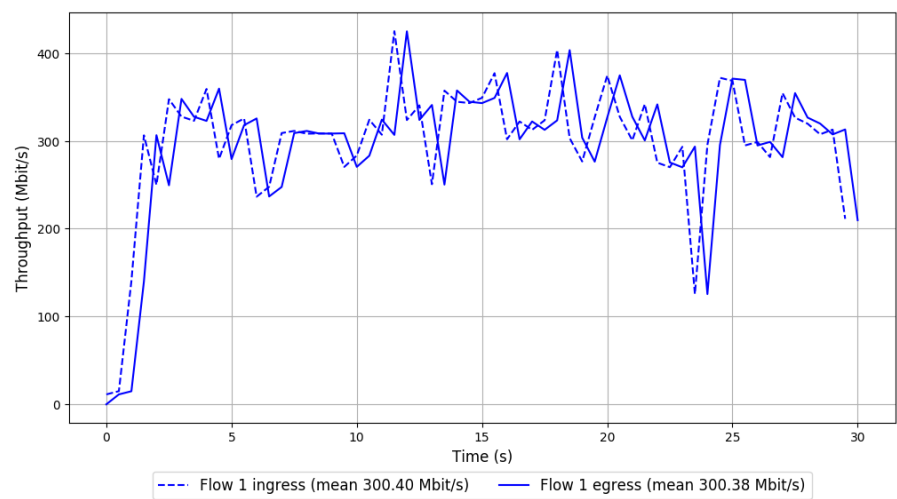
-- Flow 1:

Average throughput: 300.38 Mbit/s

95th percentile per-packet one-way delay: 1.125 ms

Loss rate: 0.01%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-03-09 08:06:52

End at: 2019-03-09 08:07:22

Local clock offset: 0.042 ms

Remote clock offset: 2.84 ms

Below is generated by plot.py at 2019-03-09 11:02:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.31 Mbit/s

95th percentile per-packet one-way delay: 1.024 ms

Loss rate: 0.01%

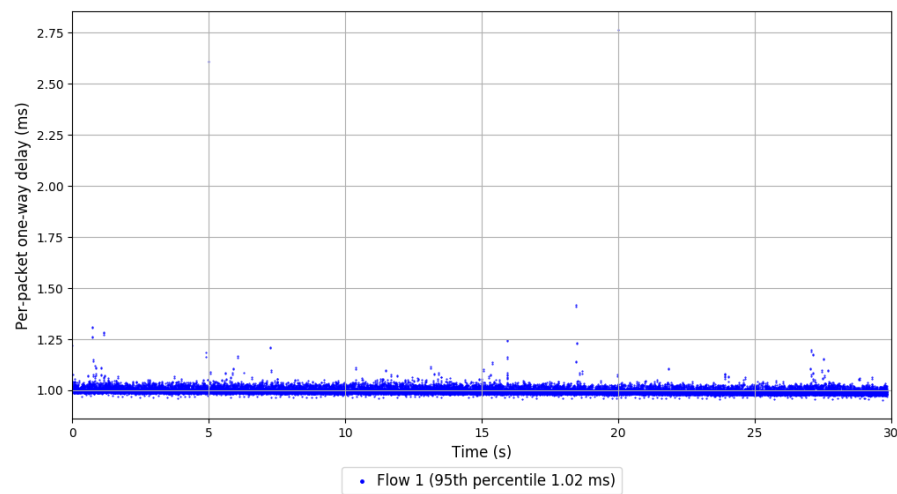
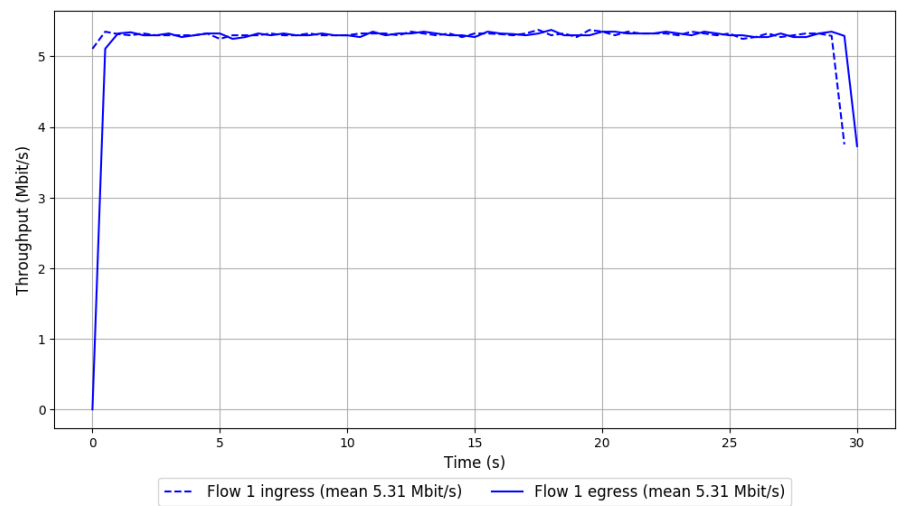
-- Flow 1:

Average throughput: 5.31 Mbit/s

95th percentile per-packet one-way delay: 1.024 ms

Loss rate: 0.01%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-03-09 08:36:16

End at: 2019-03-09 08:36:46

Local clock offset: 0.588 ms

Remote clock offset: 3.234 ms

Below is generated by plot.py at 2019-03-09 11:02:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 284.96 Mbit/s

95th percentile per-packet one-way delay: 1.753 ms

Loss rate: 0.01%

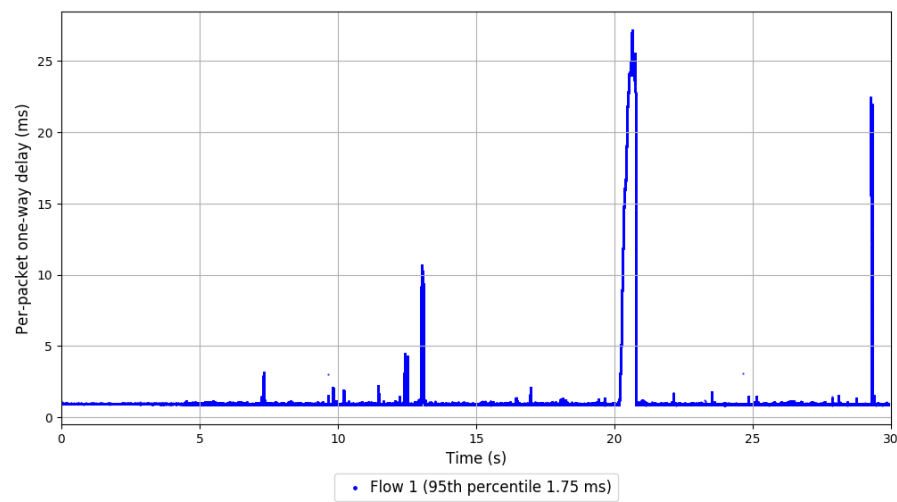
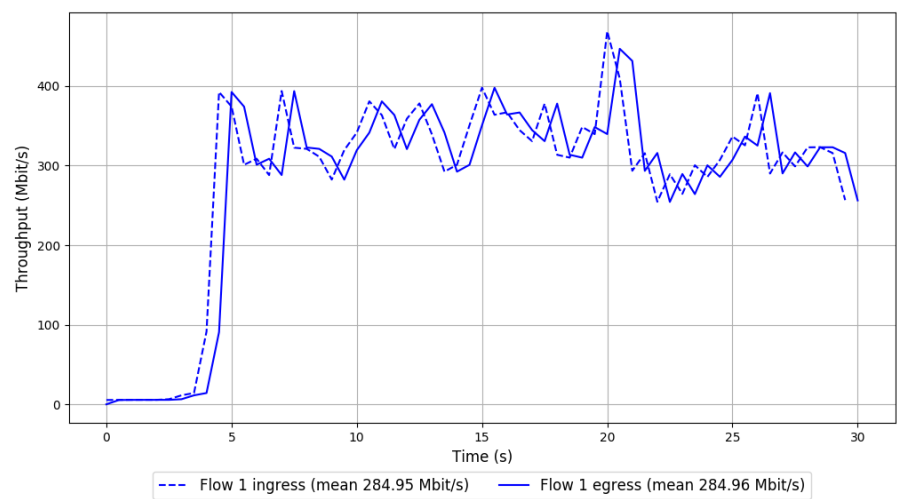
-- Flow 1:

Average throughput: 284.96 Mbit/s

95th percentile per-packet one-way delay: 1.753 ms

Loss rate: 0.01%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-03-09 09:06:00

End at: 2019-03-09 09:06:30

Local clock offset: 0.418 ms

Remote clock offset: 3.015 ms

Below is generated by plot.py at 2019-03-09 11:02:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 260.34 Mbit/s

95th percentile per-packet one-way delay: 0.941 ms

Loss rate: 0.01%

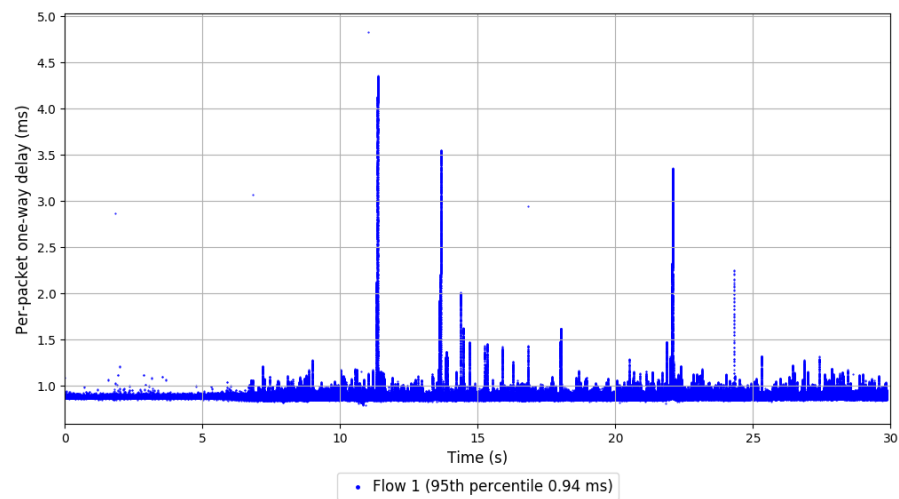
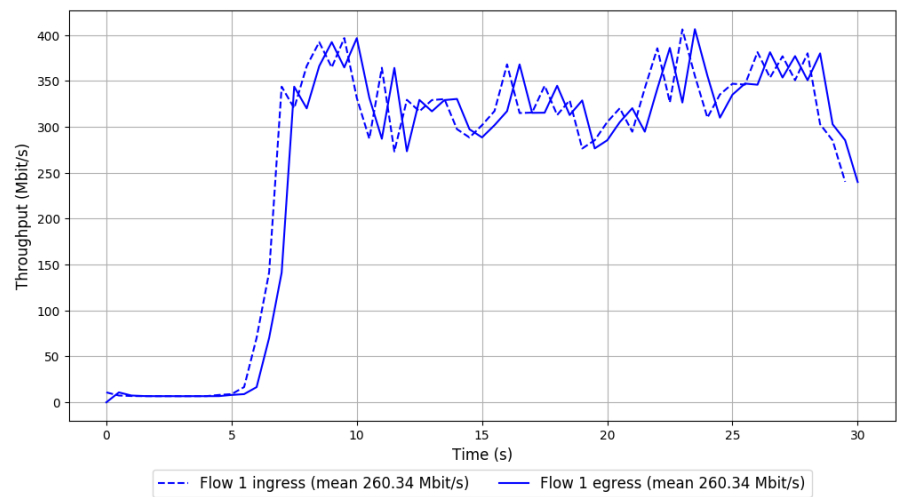
-- Flow 1:

Average throughput: 260.34 Mbit/s

95th percentile per-packet one-way delay: 0.941 ms

Loss rate: 0.01%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-03-09 09:35:44

End at: 2019-03-09 09:36:14

Local clock offset: 0.394 ms

Remote clock offset: 2.16 ms

Below is generated by plot.py at 2019-03-09 11:02:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.76 Mbit/s

95th percentile per-packet one-way delay: 0.941 ms

Loss rate: 0.01%

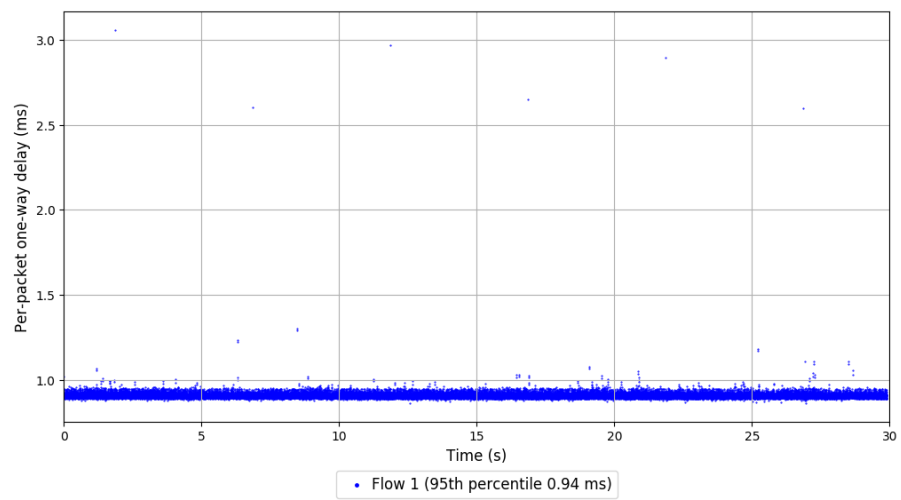
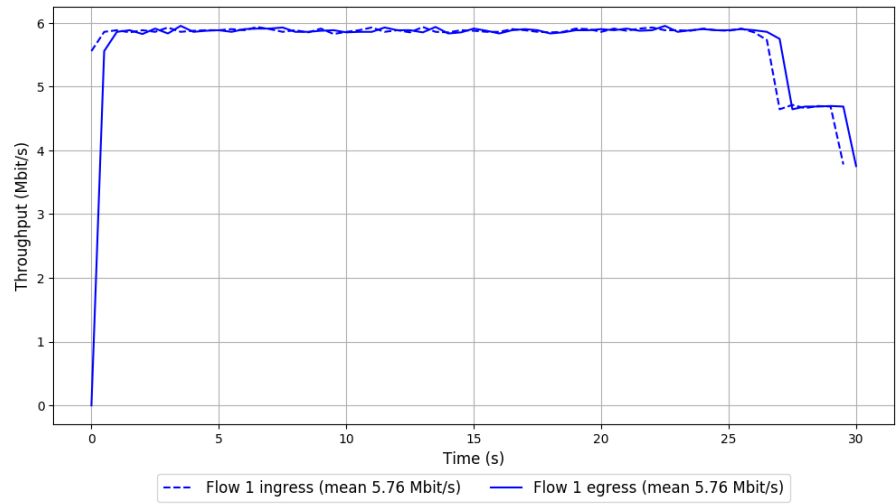
-- Flow 1:

Average throughput: 5.76 Mbit/s

95th percentile per-packet one-way delay: 0.941 ms

Loss rate: 0.01%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-03-09 07:40:02

End at: 2019-03-09 07:40:32

Local clock offset: 0.523 ms

Remote clock offset: 2.335 ms

Below is generated by plot.py at 2019-03-09 11:02:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.31 Mbit/s

95th percentile per-packet one-way delay: 0.933 ms

Loss rate: 0.01%

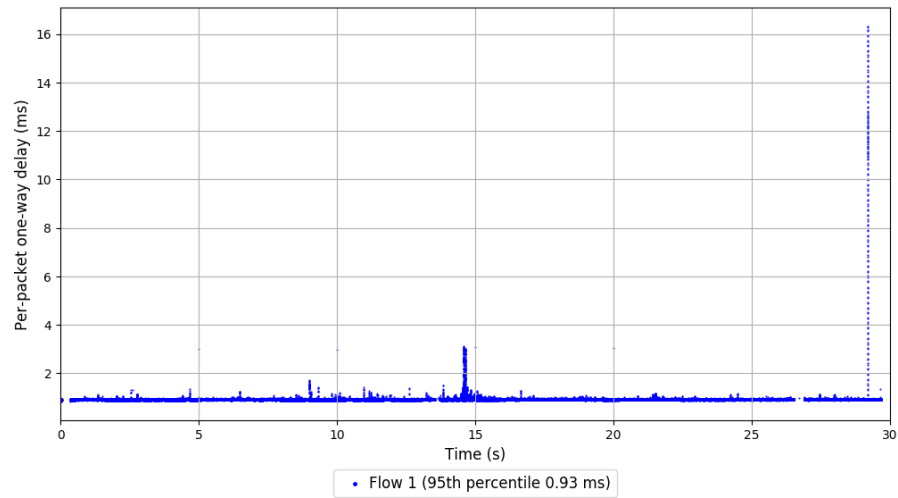
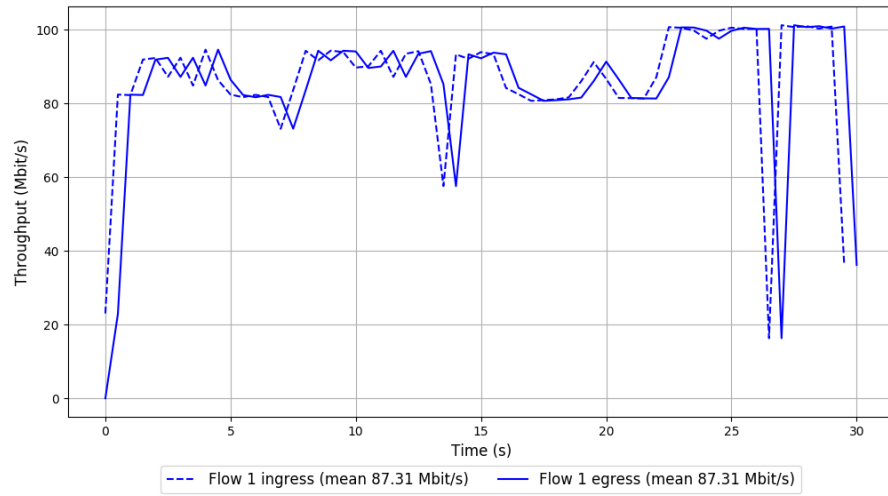
-- Flow 1:

Average throughput: 87.31 Mbit/s

95th percentile per-packet one-way delay: 0.933 ms

Loss rate: 0.01%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-03-09 08:09:28

End at: 2019-03-09 08:09:58

Local clock offset: 0.006 ms

Remote clock offset: 2.823 ms

Below is generated by plot.py at 2019-03-09 11:02:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.02 Mbit/s

95th percentile per-packet one-way delay: 0.956 ms

Loss rate: 0.01%

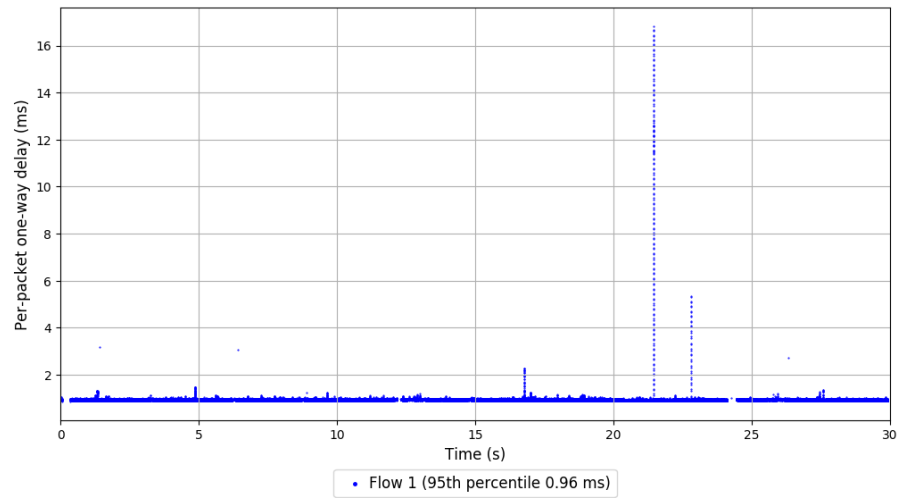
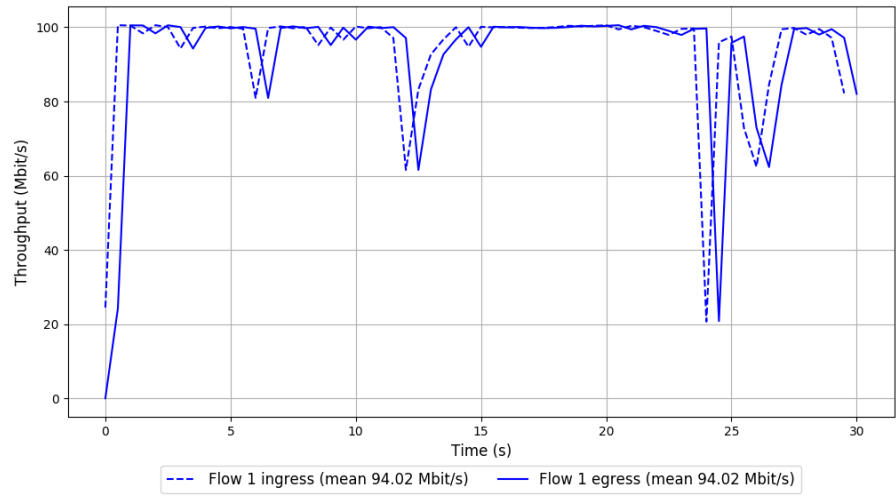
-- Flow 1:

Average throughput: 94.02 Mbit/s

95th percentile per-packet one-way delay: 0.956 ms

Loss rate: 0.01%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-03-09 08:39:09

End at: 2019-03-09 08:39:39

Local clock offset: 0.607 ms

Remote clock offset: 2.999 ms

Below is generated by plot.py at 2019-03-09 11:02:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.13 Mbit/s

95th percentile per-packet one-way delay: 1.012 ms

Loss rate: 0.01%

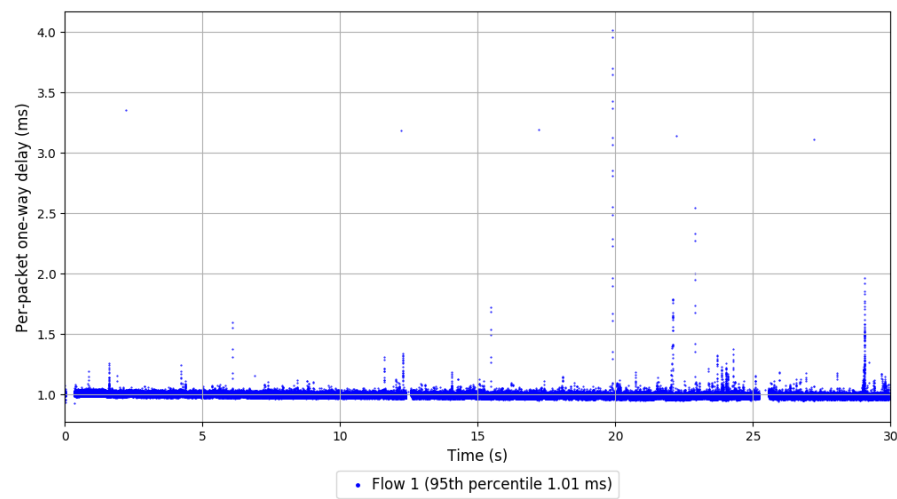
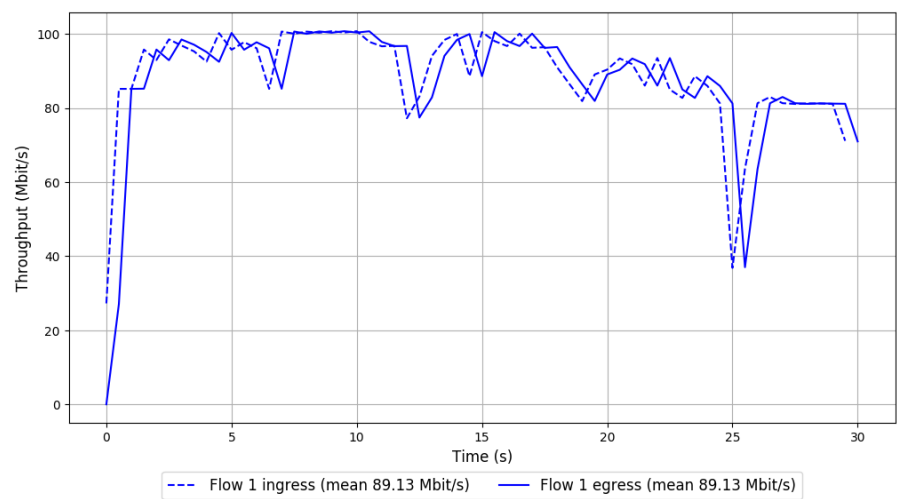
-- Flow 1:

Average throughput: 89.13 Mbit/s

95th percentile per-packet one-way delay: 1.012 ms

Loss rate: 0.01%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-03-09 09:08:50

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

Local clock offset: 0.412 ms

Remote clock offset: 2.943 ms

Below is generated by plot.py at 2019-03-09 11:02:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.07 Mbit/s

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

Loss rate: 0.01%

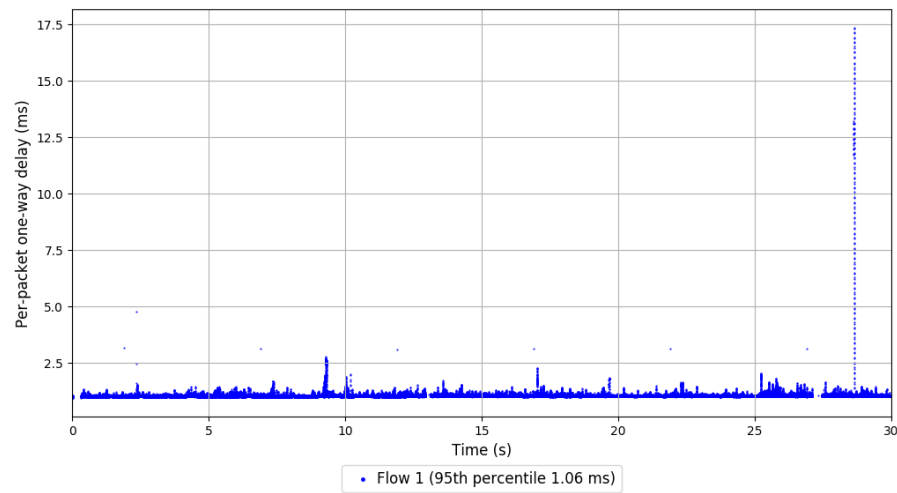
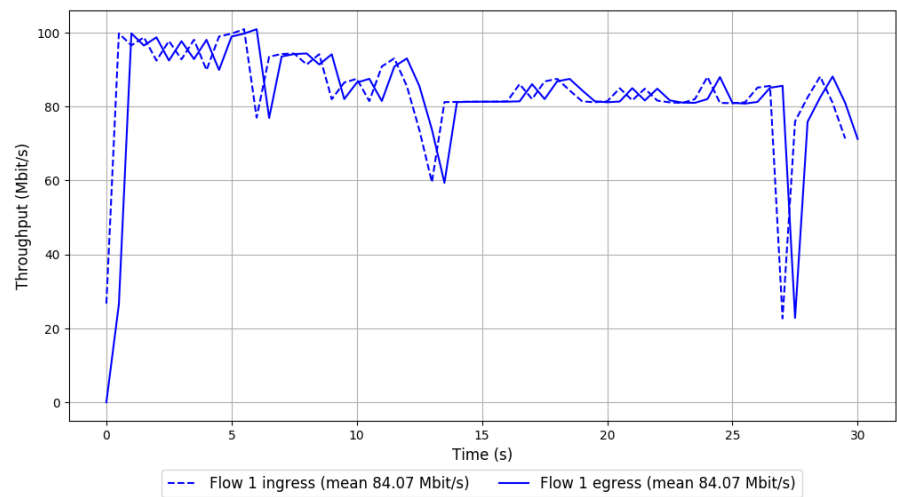
-- Flow 1:

Average throughput: 84.07 Mbit/s

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

Loss rate: 0.01%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-03-09 09:38:20

End at: 2019-03-09 09:38:50

Local clock offset: 0.421 ms

Remote clock offset: 2.163 ms

Below is generated by plot.py at 2019-03-09 11:02:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.78 Mbit/s

95th percentile per-packet one-way delay: 0.923 ms

Loss rate: 0.01%

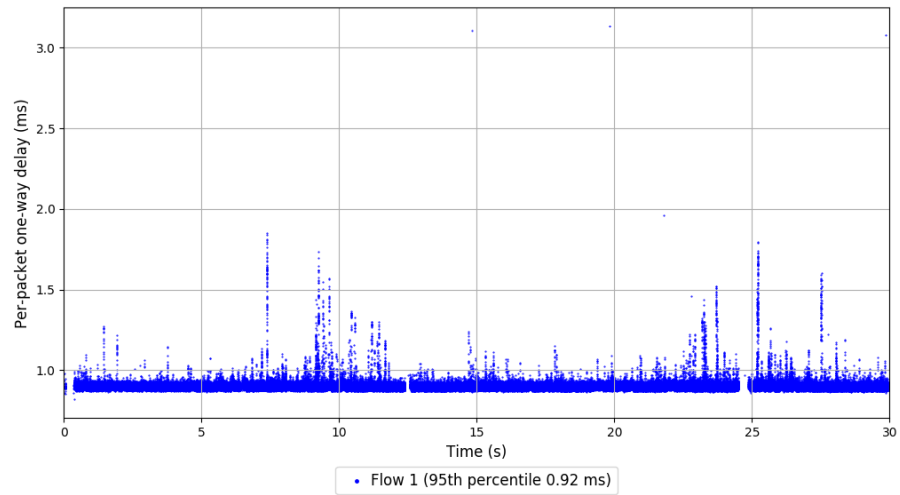
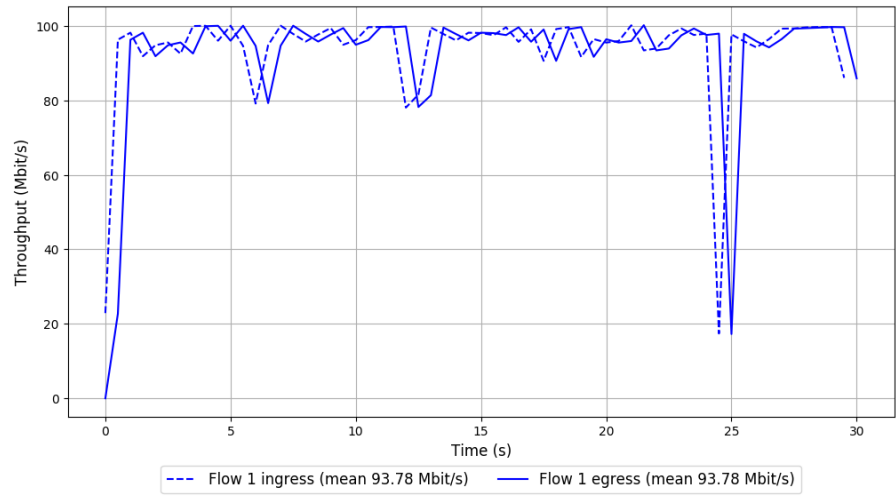
-- Flow 1:

Average throughput: 93.78 Mbit/s

95th percentile per-packet one-way delay: 0.923 ms

Loss rate: 0.01%

Run 5: Report of QUIC Cubic — Data Link

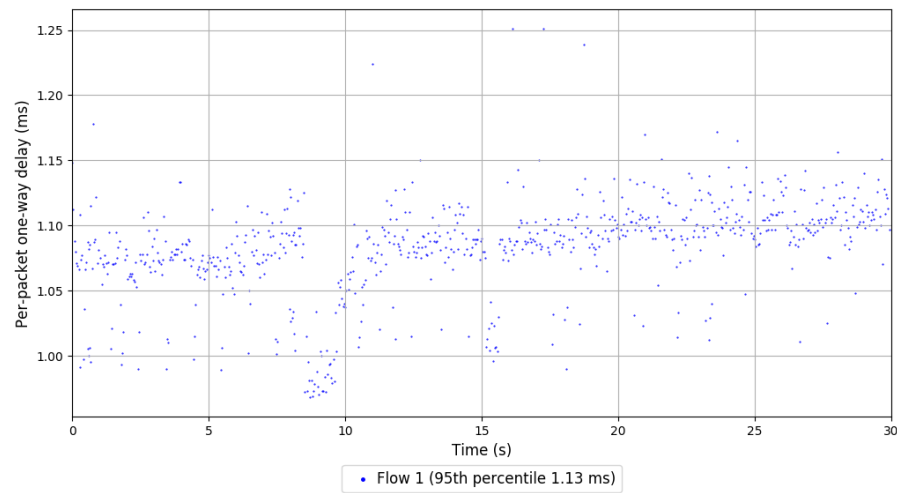
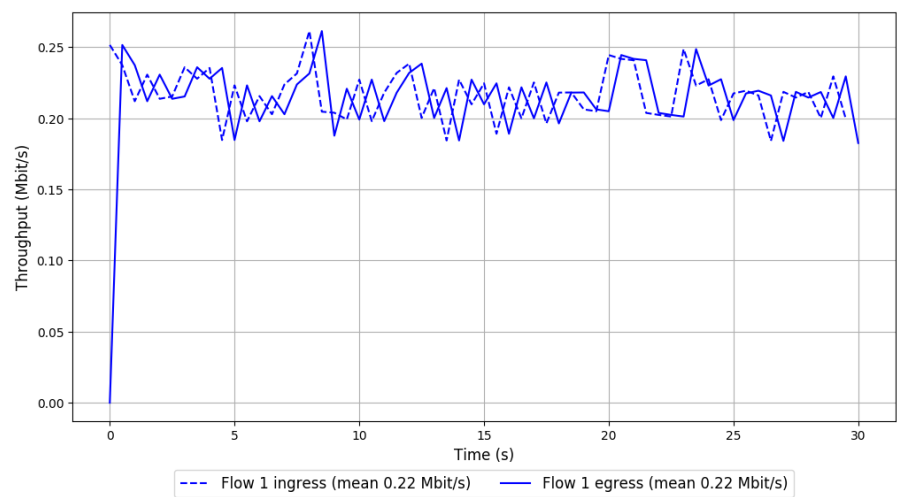


```
Run 1: Statistics of SCReAM

Start at: 2019-03-09 07:53:01
End at: 2019-03-09 07:53:31
Local clock offset: 0.235 ms
Remote clock offset: 2.719 ms

# Below is generated by plot.py at 2019-03-09 11:02:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.131 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.131 ms
Loss rate: 0.13%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-03-09 08:22:22

End at: 2019-03-09 08:22:52

Local clock offset: 0.356 ms

Remote clock offset: 2.834 ms

Below is generated by plot.py at 2019-03-09 11:02:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.079 ms

Loss rate: 0.00%

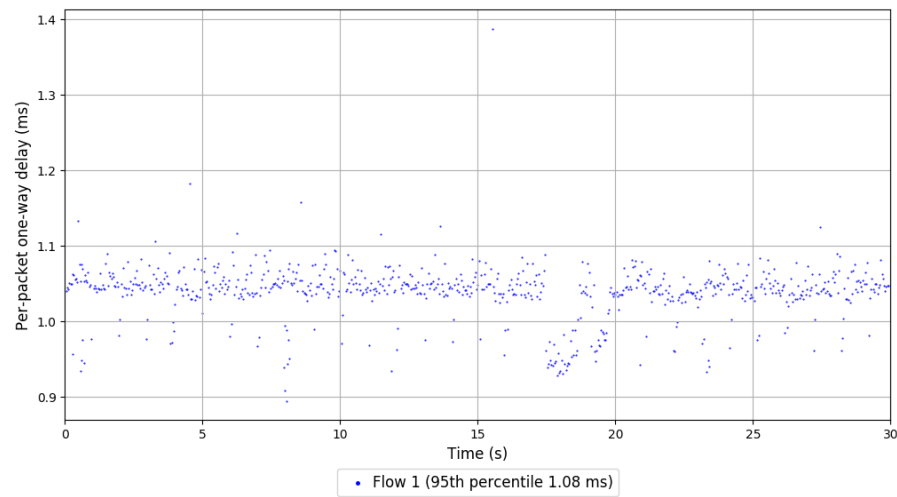
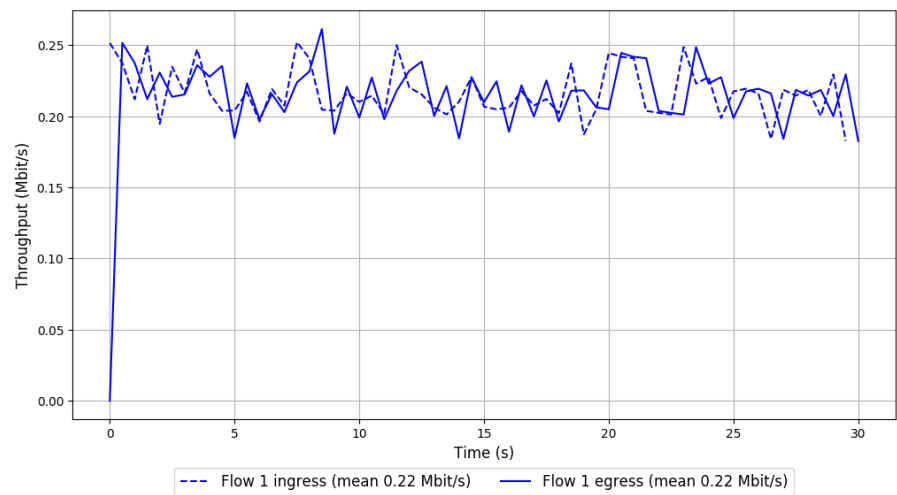
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.079 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-03-09 08:52:14

End at: 2019-03-09 08:52:44

Local clock offset: 0.489 ms

Remote clock offset: 2.809 ms

Below is generated by plot.py at 2019-03-09 11:02:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.050 ms

Loss rate: 0.00%

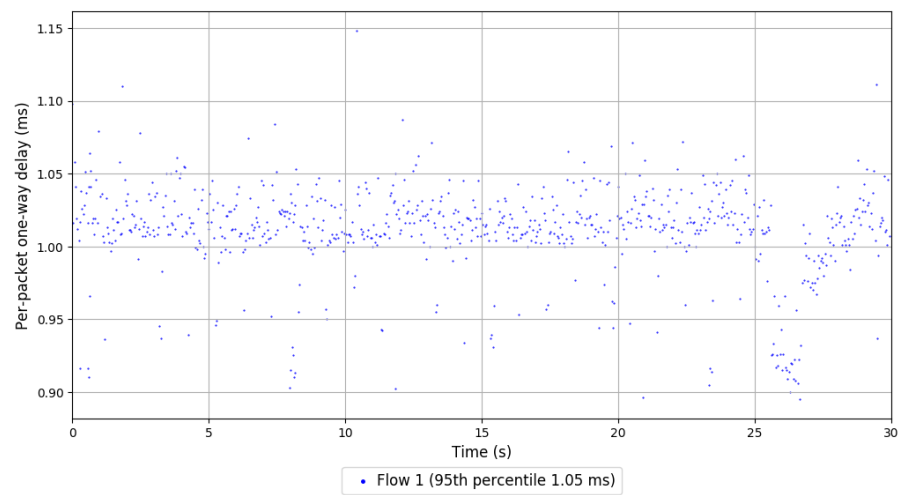
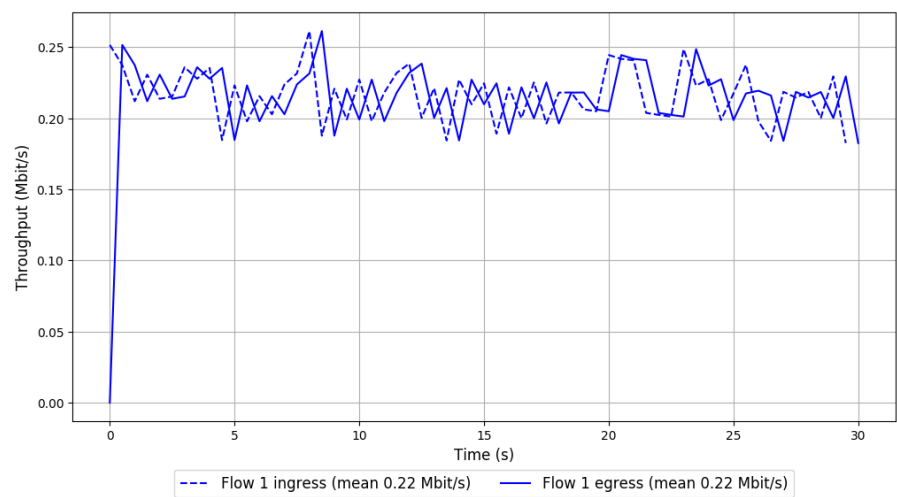
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.050 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-03-09 09:21:49

End at: 2019-03-09 09:22:19

Local clock offset: 0.418 ms

Remote clock offset: 2.329 ms

Below is generated by plot.py at 2019-03-09 11:02:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.040 ms

Loss rate: 0.00%

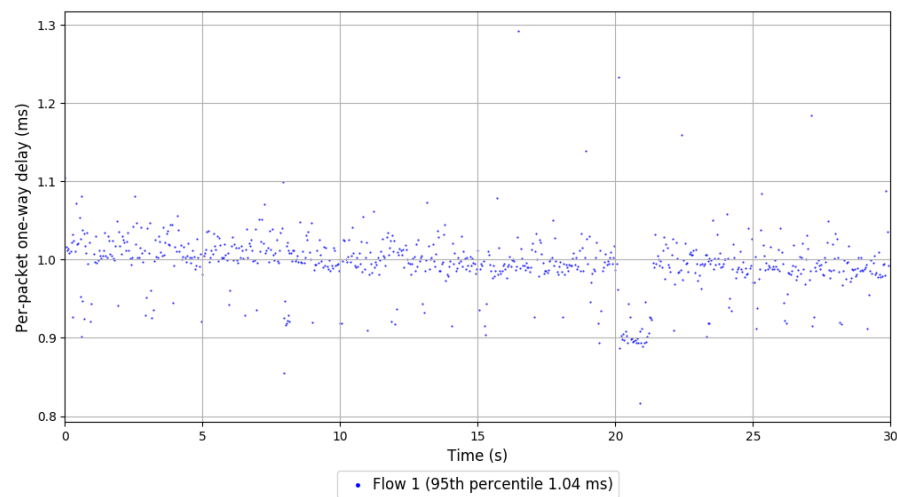
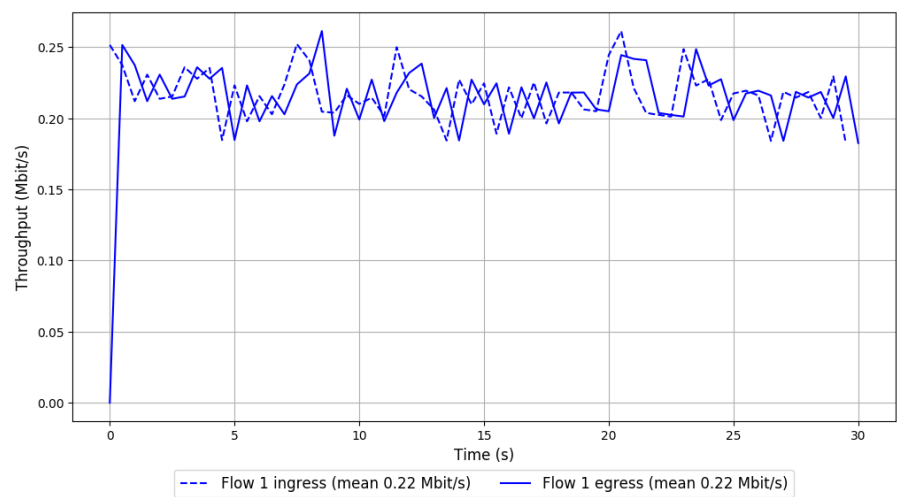
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.040 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2019-03-09 09:51:27

End at: 2019-03-09 09:51:57

Local clock offset: 2.153 ms

Remote clock offset: 2.086 ms

Below is generated by plot.py at 2019-03-09 11:02:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

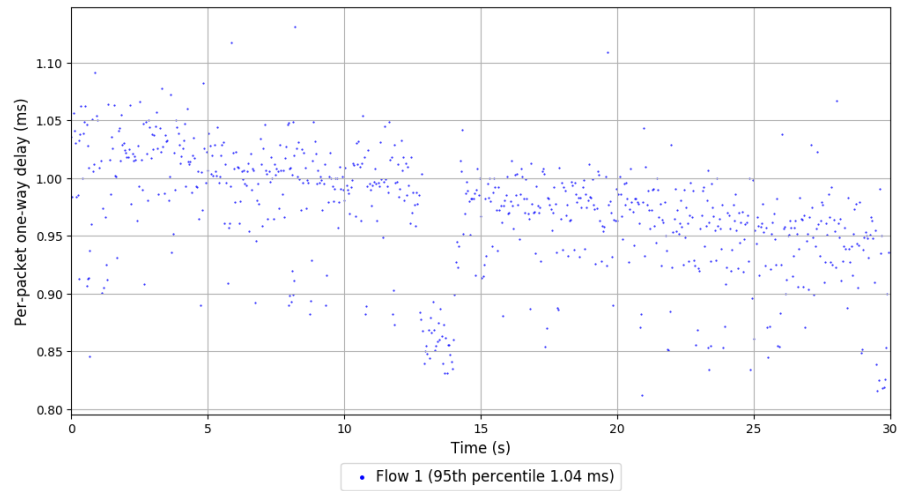
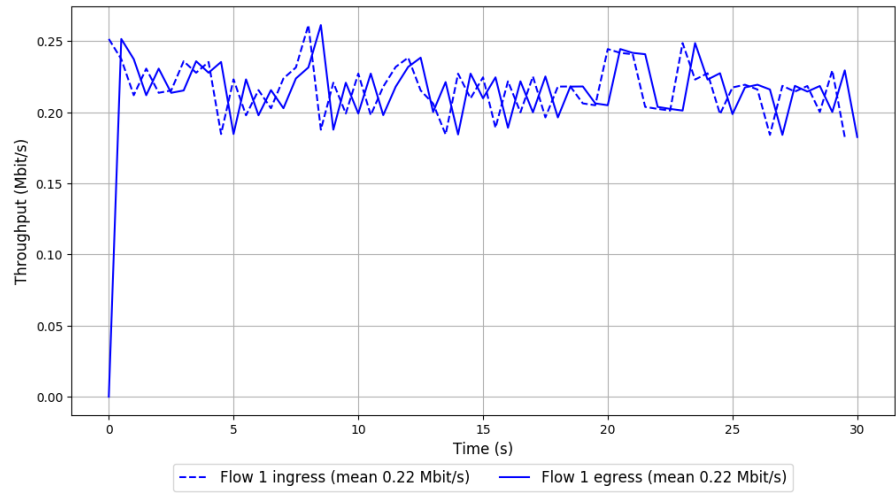
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-03-09 07:42:37

End at: 2019-03-09 07:43:07

Local clock offset: 0.528 ms

Remote clock offset: 2.326 ms

Below is generated by plot.py at 2019-03-09 11:02:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.23 Mbit/s

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

Loss rate: 0.00%

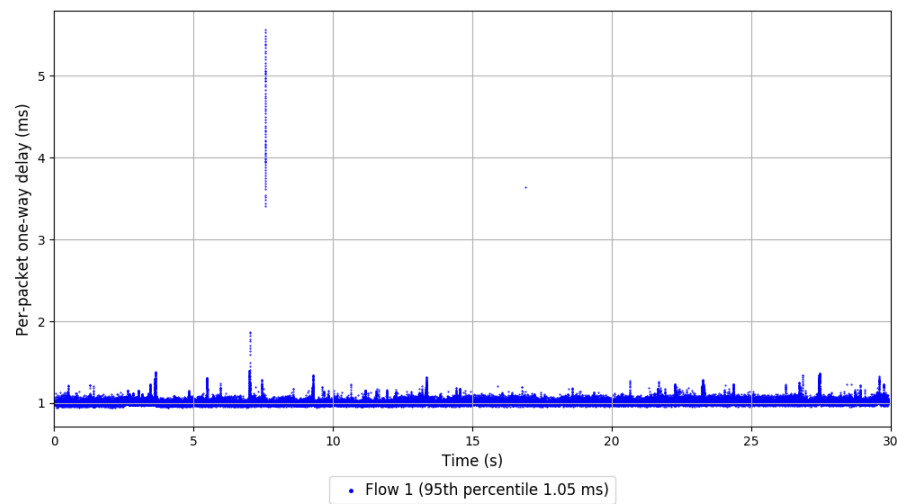
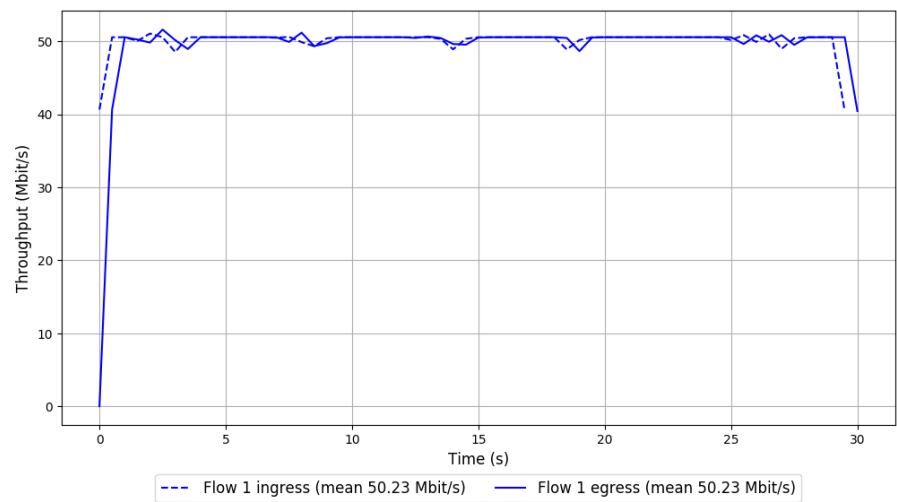
-- Flow 1:

Average throughput: 50.23 Mbit/s

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

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-03-09 08:11:58

End at: 2019-03-09 08:12:28

Local clock offset: -0.0 ms

Remote clock offset: 2.802 ms

Below is generated by plot.py at 2019-03-09 11:02:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.23 Mbit/s

95th percentile per-packet one-way delay: 1.006 ms

Loss rate: 0.00%

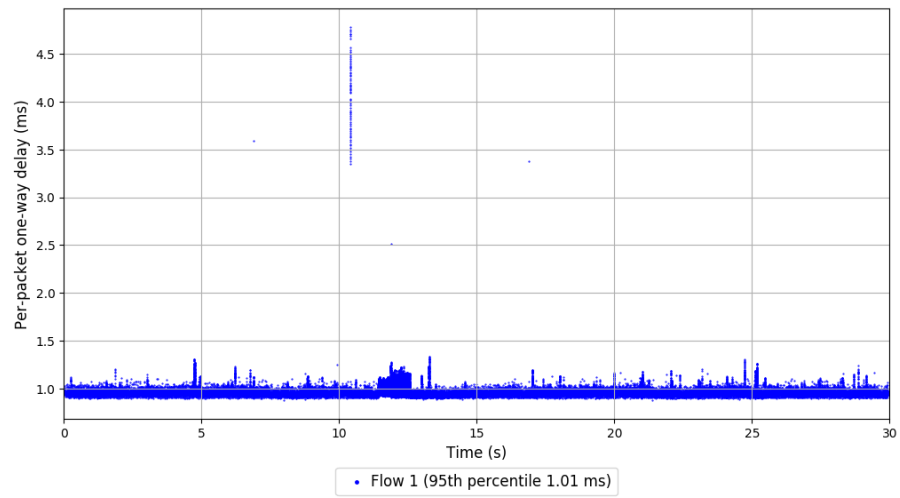
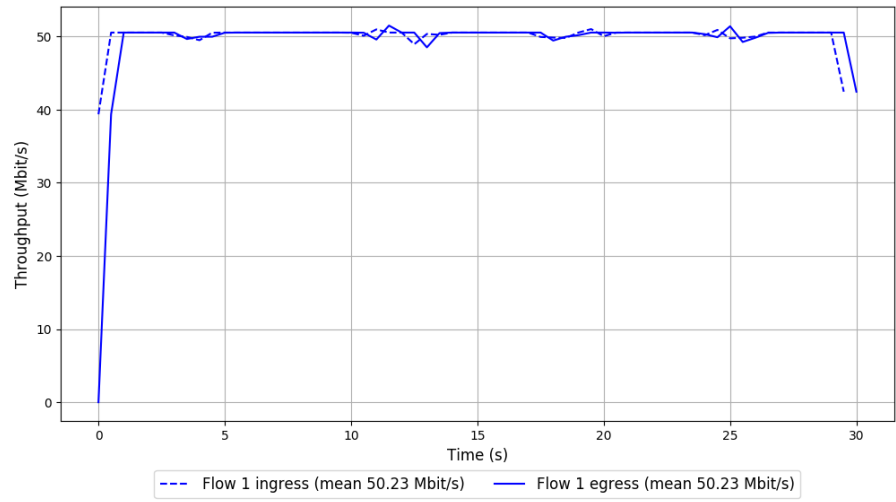
-- Flow 1:

Average throughput: 50.23 Mbit/s

95th percentile per-packet one-way delay: 1.006 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-03-09 08:41:40

End at: 2019-03-09 08:42:10

Local clock offset: 0.614 ms

Remote clock offset: 2.963 ms

Below is generated by plot.py at 2019-03-09 11:02:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.28 Mbit/s

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

Loss rate: 0.00%

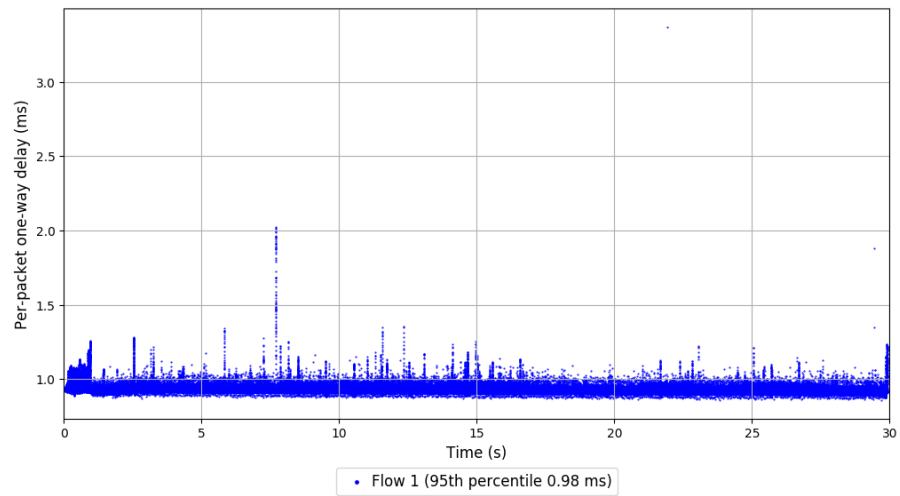
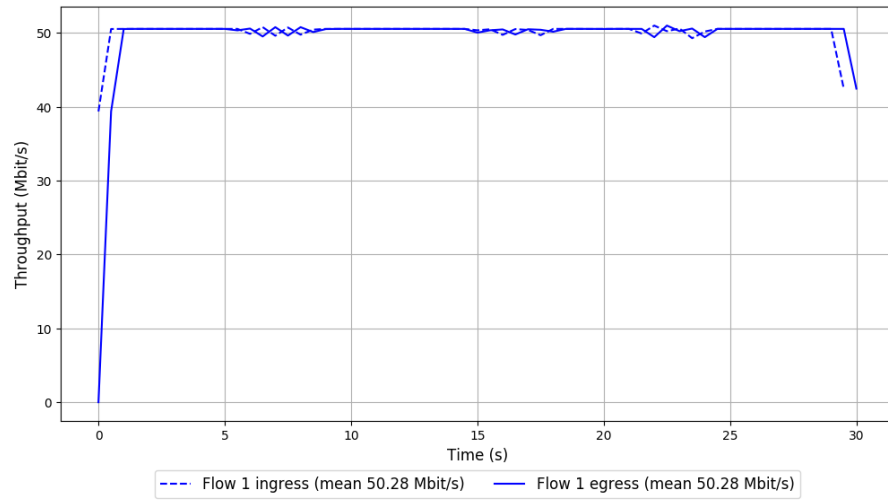
-- Flow 1:

Average throughput: 50.28 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-03-09 09:11:20

End at: 2019-03-09 09:11:50

Local clock offset: 0.41 ms

Remote clock offset: 2.869 ms

Below is generated by plot.py at 2019-03-09 11:02:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.24 Mbit/s

95th percentile per-packet one-way delay: 1.038 ms

Loss rate: 0.00%

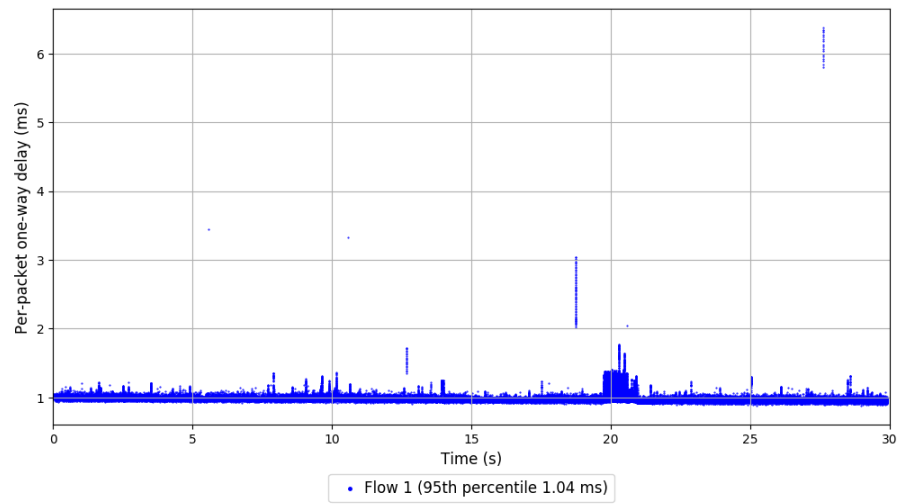
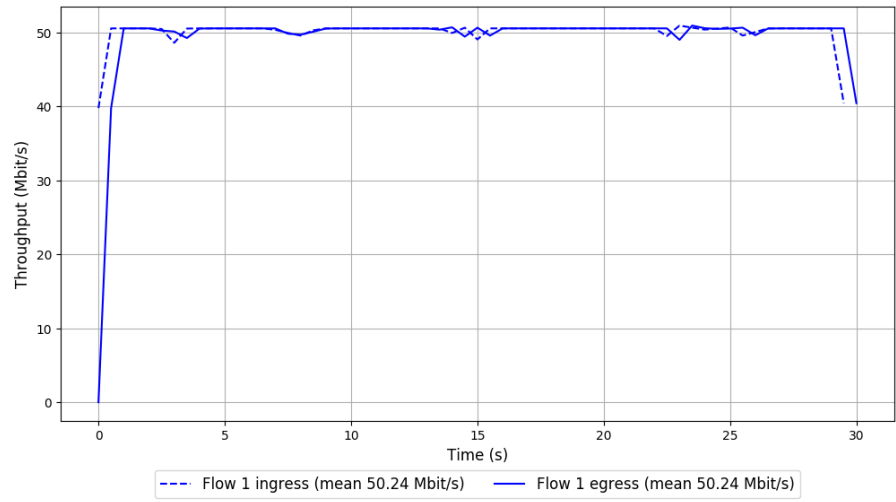
-- Flow 1:

Average throughput: 50.24 Mbit/s

95th percentile per-packet one-way delay: 1.038 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-03-09 09:40:55

End at: 2019-03-09 09:41:25

Local clock offset: 0.413 ms

Remote clock offset: 2.053 ms

Below is generated by plot.py at 2019-03-09 11:02:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.25 Mbit/s

95th percentile per-packet one-way delay: 1.078 ms

Loss rate: 0.04%

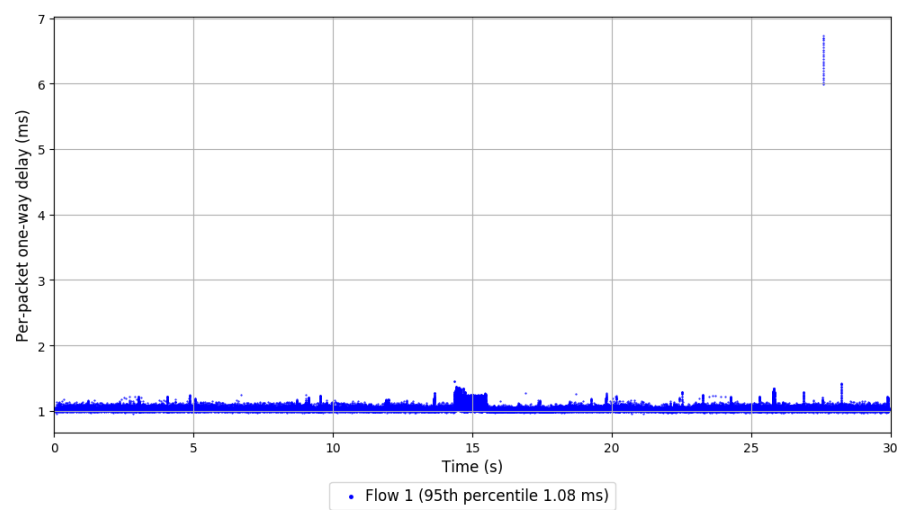
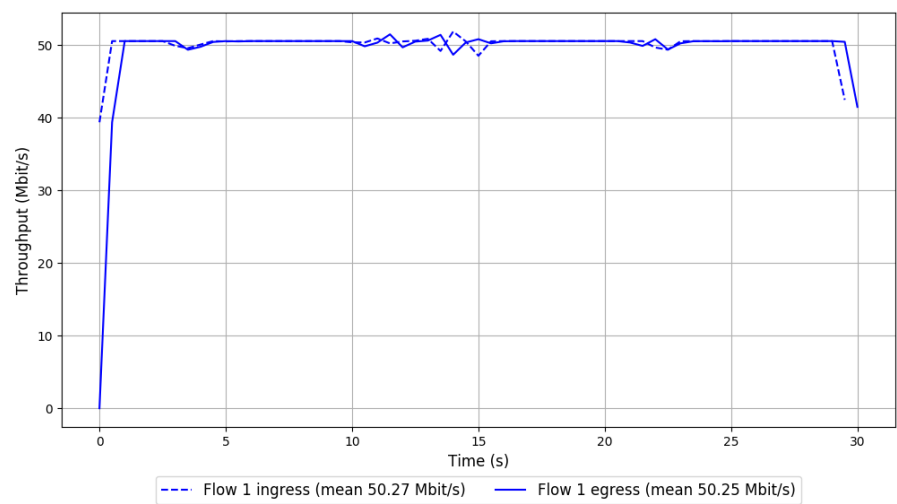
-- Flow 1:

Average throughput: 50.25 Mbit/s

95th percentile per-packet one-way delay: 1.078 ms

Loss rate: 0.04%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-03-09 07:41:18

End at: 2019-03-09 07:41:48

Local clock offset: 0.532 ms

Remote clock offset: 2.379 ms

Below is generated by plot.py at 2019-03-09 11:02:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.69 Mbit/s

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

Loss rate: 0.01%

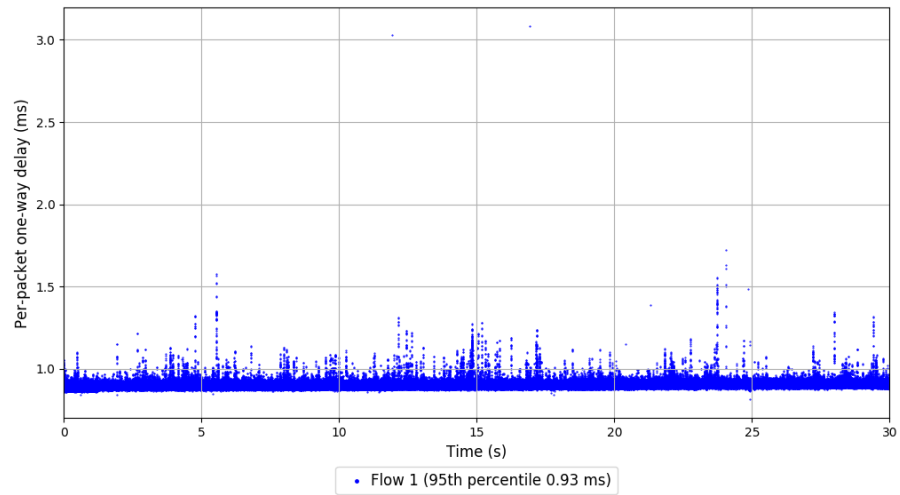
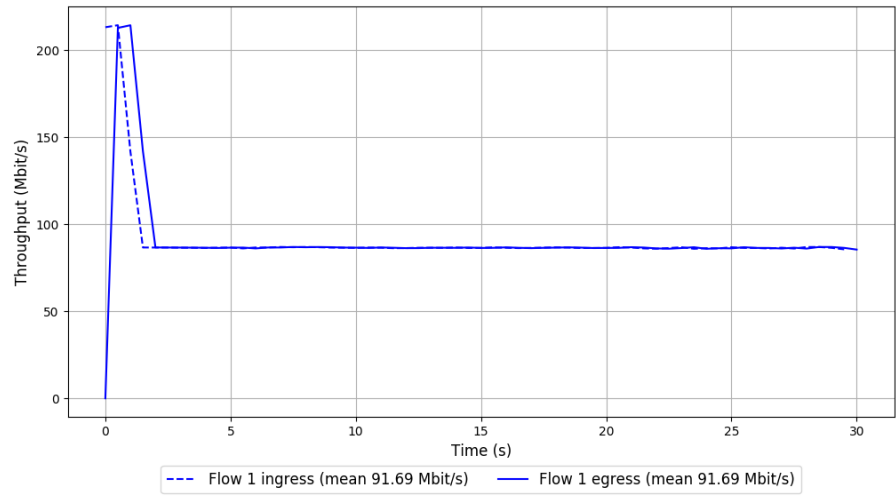
-- Flow 1:

Average throughput: 91.69 Mbit/s

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

Loss rate: 0.01%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-03-09 08:10:44

End at: 2019-03-09 08:11:14

Local clock offset: 0.001 ms

Remote clock offset: 2.821 ms

Below is generated by plot.py at 2019-03-09 11:02:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.21 Mbit/s

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

Loss rate: 0.00%

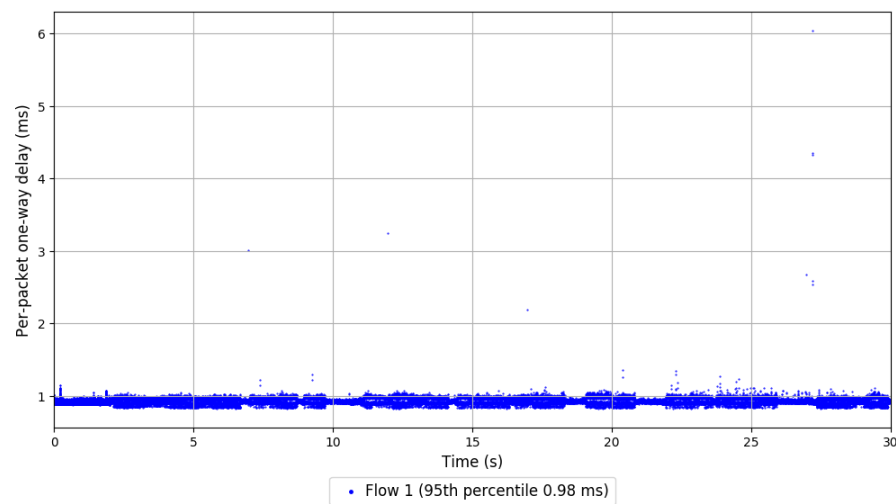
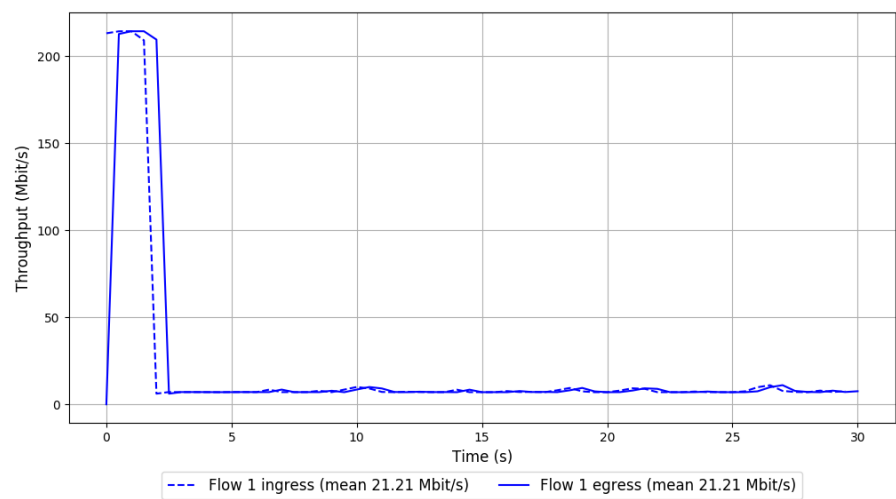
-- Flow 1:

Average throughput: 21.21 Mbit/s

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

Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-03-09 08:40:25

End at: 2019-03-09 08:40:55

Local clock offset: 0.608 ms

Remote clock offset: 2.956 ms

Below is generated by plot.py at 2019-03-09 11:02:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.43 Mbit/s

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

Loss rate: 0.00%

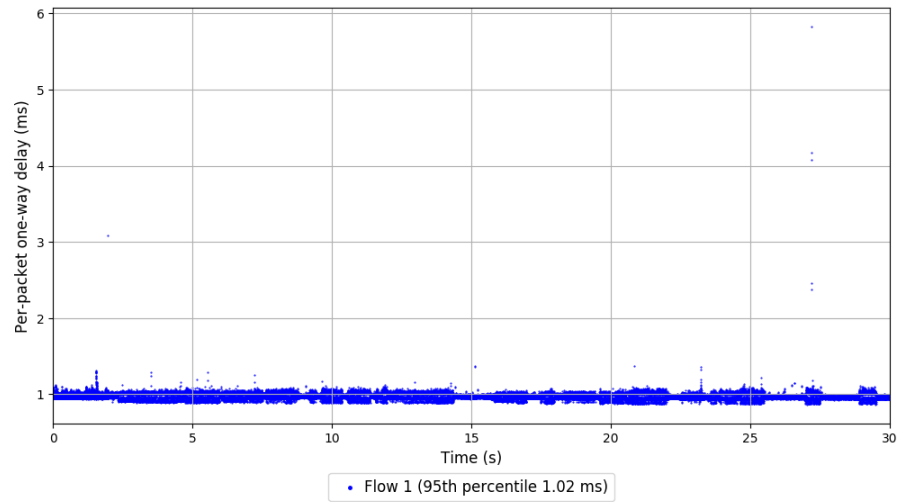
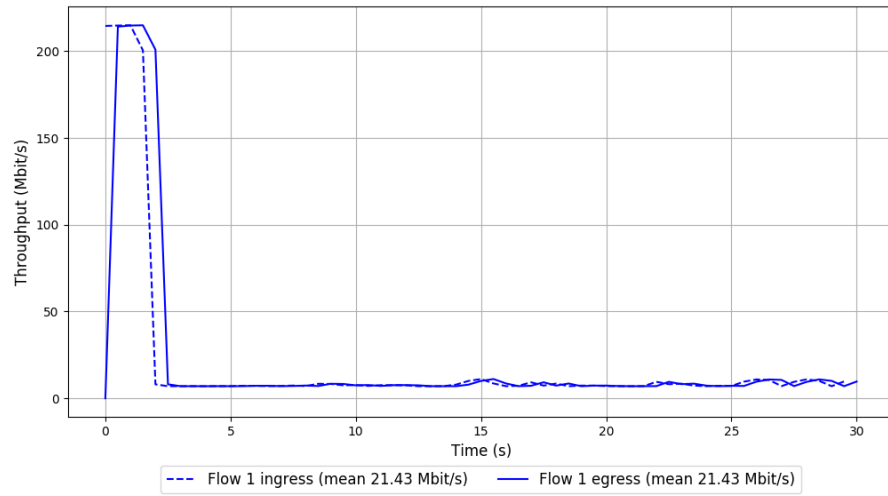
-- Flow 1:

Average throughput: 21.43 Mbit/s

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

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-03-09 09:10:06

End at: 2019-03-09 09:10:36

Local clock offset: 0.414 ms

Remote clock offset: 2.995 ms

Below is generated by plot.py at 2019-03-09 11:02:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.28 Mbit/s

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

Loss rate: 0.00%

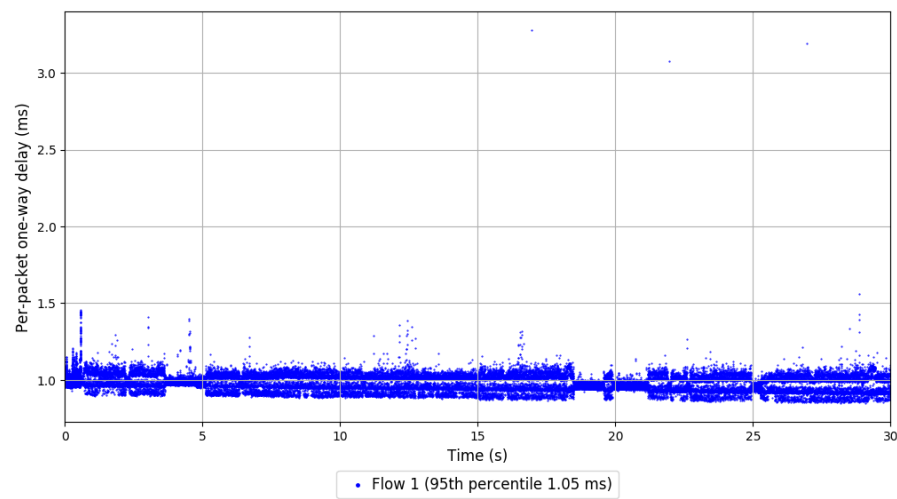
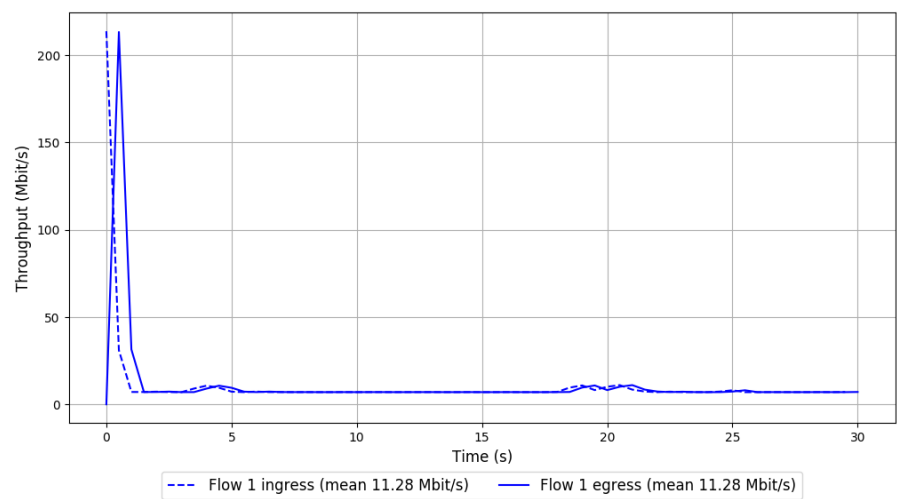
-- Flow 1:

Average throughput: 11.28 Mbit/s

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

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-03-09 09:39:37

End at: 2019-03-09 09:40:07

Local clock offset: 0.412 ms

Remote clock offset: 2.073 ms

Below is generated by plot.py at 2019-03-09 11:02:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.83 Mbit/s

95th percentile per-packet one-way delay: 1.016 ms

Loss rate: 0.01%

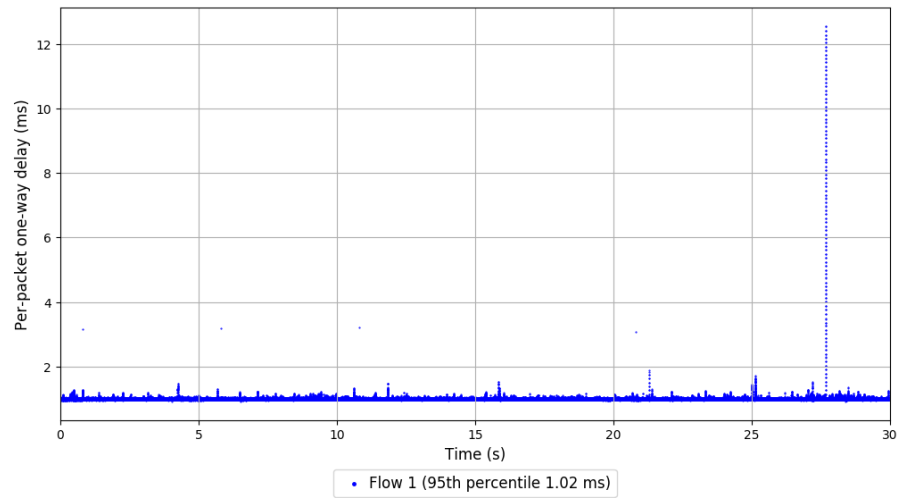
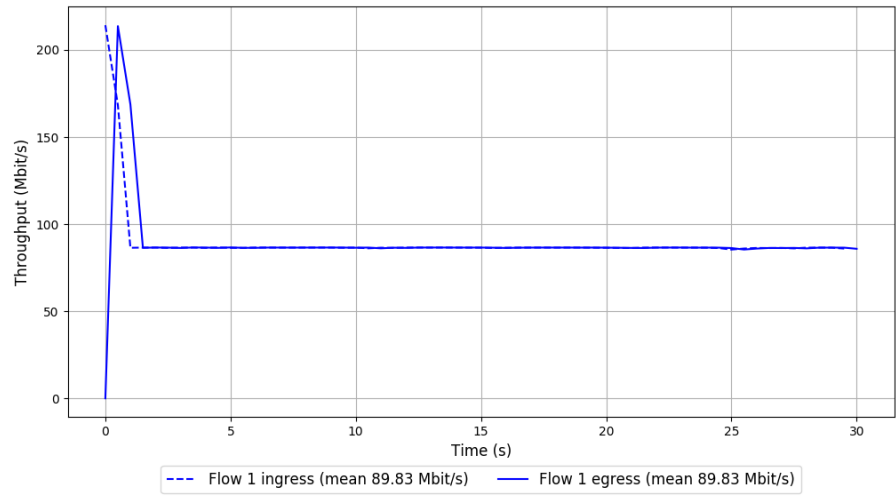
-- Flow 1:

Average throughput: 89.83 Mbit/s

95th percentile per-packet one-way delay: 1.016 ms

Loss rate: 0.01%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-03-09 07:38:40

End at: 2019-03-09 07:39:10

Local clock offset: 0.526 ms

Remote clock offset: 2.224 ms

Below is generated by plot.py at 2019-03-09 11:04:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 281.53 Mbit/s

95th percentile per-packet one-way delay: 1.234 ms

Loss rate: 0.01%

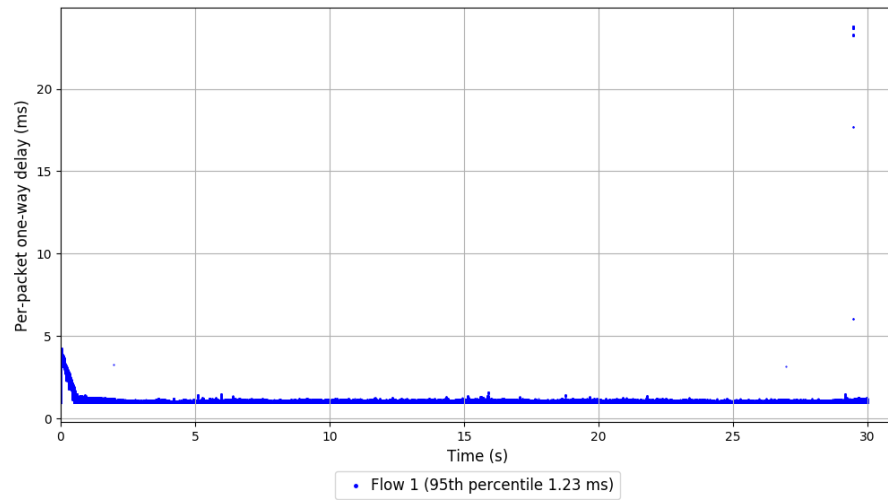
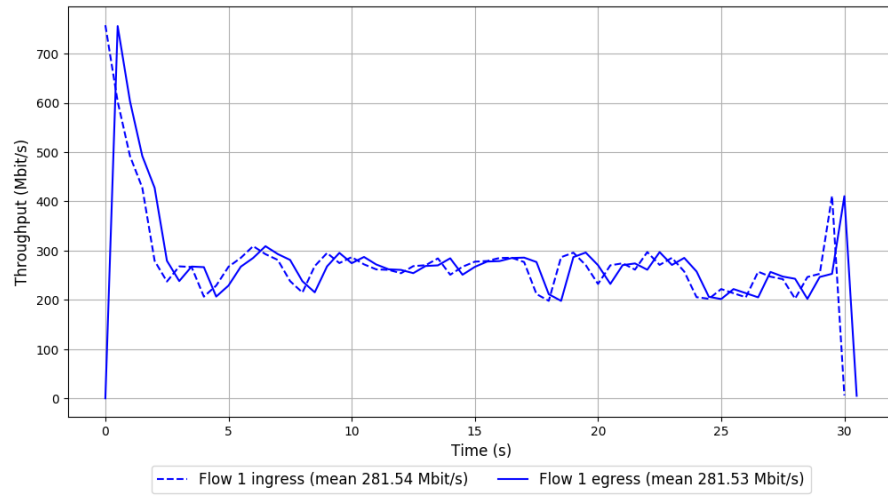
-- Flow 1:

Average throughput: 281.53 Mbit/s

95th percentile per-packet one-way delay: 1.234 ms

Loss rate: 0.01%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-03-09 08:08:06

End at: 2019-03-09 08:08:36

Local clock offset: 0.019 ms

Remote clock offset: 2.802 ms

Below is generated by plot.py at 2019-03-09 11:04:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 270.62 Mbit/s

95th percentile per-packet one-way delay: 1.231 ms

Loss rate: 0.00%

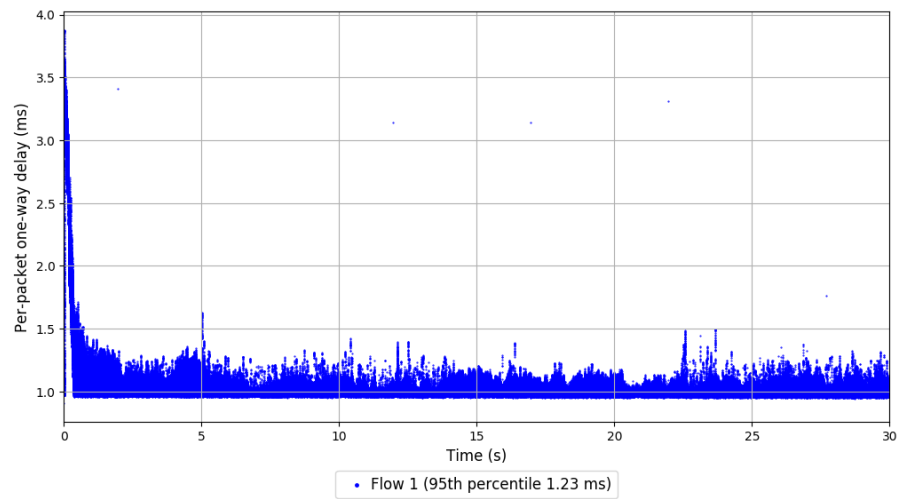
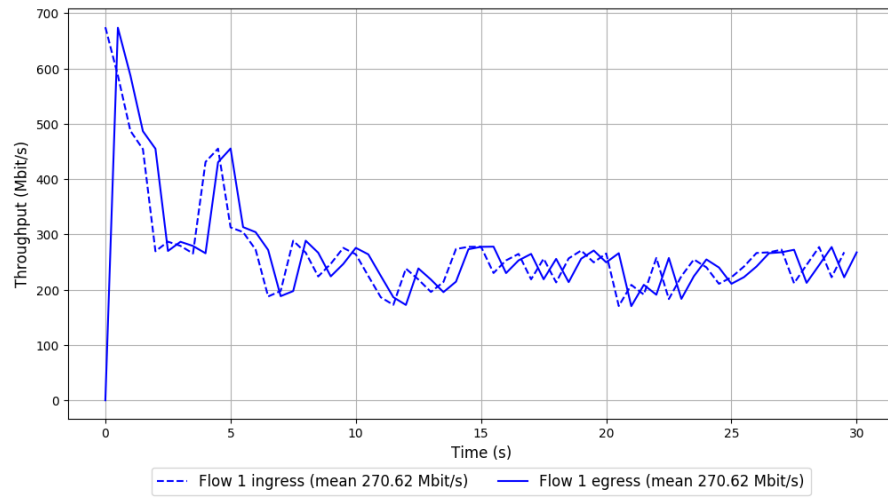
-- Flow 1:

Average throughput: 270.62 Mbit/s

95th percentile per-packet one-way delay: 1.231 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-03-09 08:37:47

End at: 2019-03-09 08:38:17

Local clock offset: 0.602 ms

Remote clock offset: 3.139 ms

Below is generated by plot.py at 2019-03-09 11:04:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 289.49 Mbit/s

95th percentile per-packet one-way delay: 1.098 ms

Loss rate: 0.01%

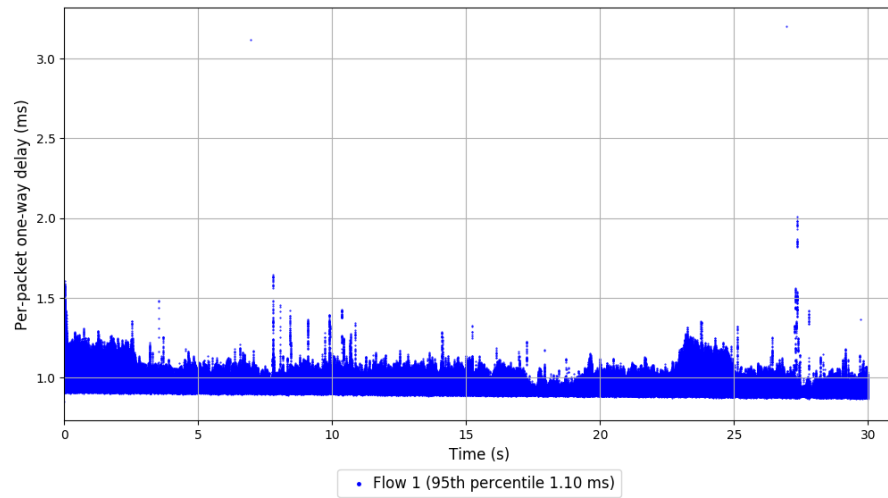
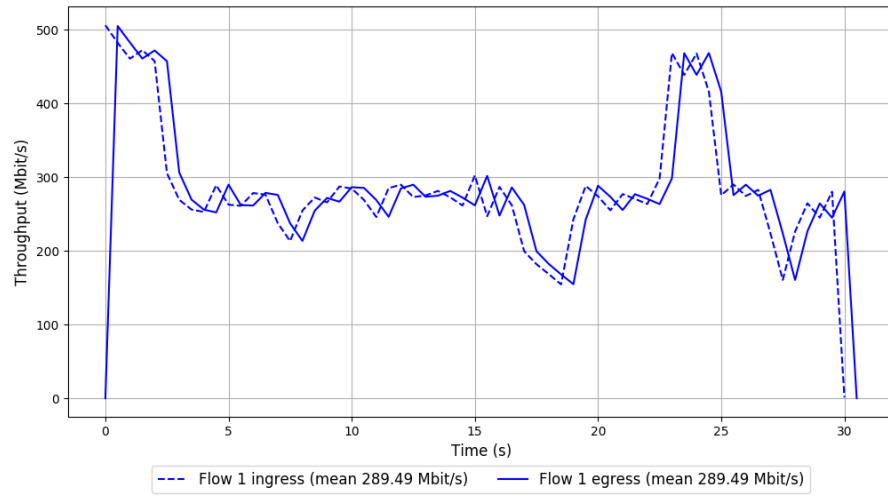
-- Flow 1:

Average throughput: 289.49 Mbit/s

95th percentile per-packet one-way delay: 1.098 ms

Loss rate: 0.01%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-03-09 09:07:29

End at: 2019-03-09 09:07:59

Local clock offset: 0.394 ms

Remote clock offset: 3.044 ms

Below is generated by plot.py at 2019-03-09 11:04:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 260.44 Mbit/s

95th percentile per-packet one-way delay: 1.089 ms

Loss rate: 0.01%

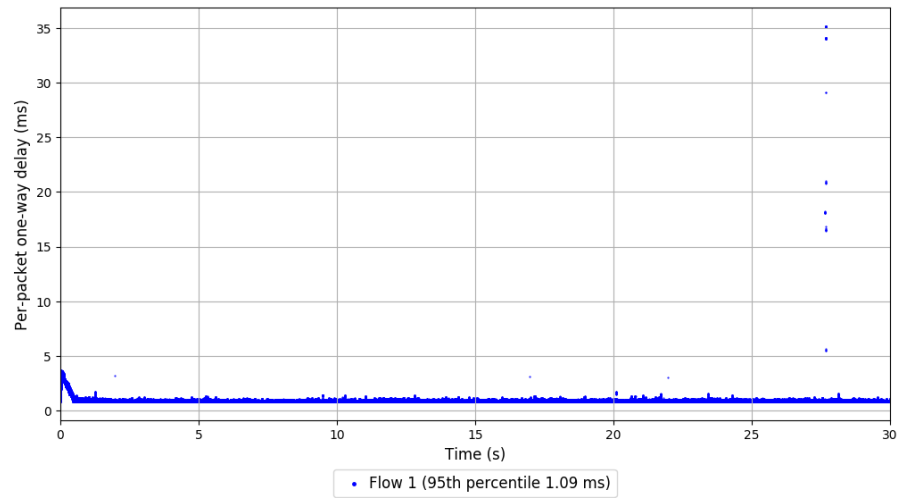
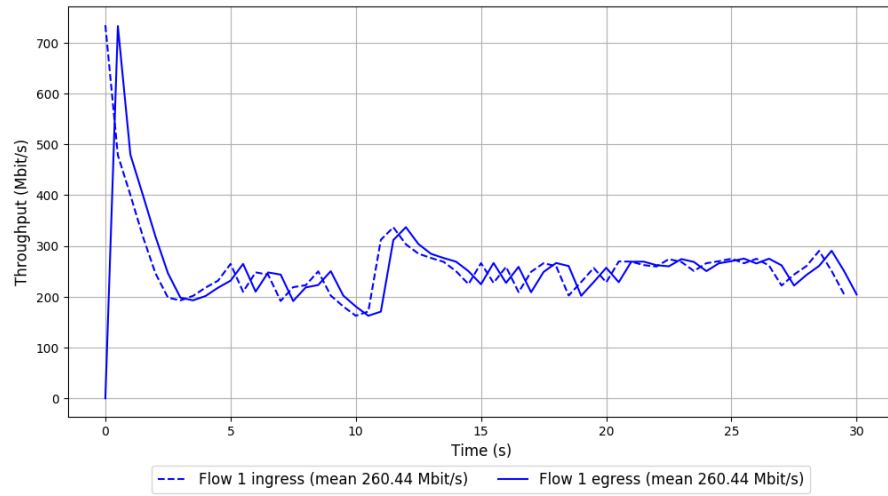
-- Flow 1:

Average throughput: 260.44 Mbit/s

95th percentile per-packet one-way delay: 1.089 ms

Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-03-09 09:36:58

End at: 2019-03-09 09:37:28

Local clock offset: 0.41 ms

Remote clock offset: 2.147 ms

Below is generated by plot.py at 2019-03-09 11:05:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 295.44 Mbit/s

95th percentile per-packet one-way delay: 3.341 ms

Loss rate: 0.00%

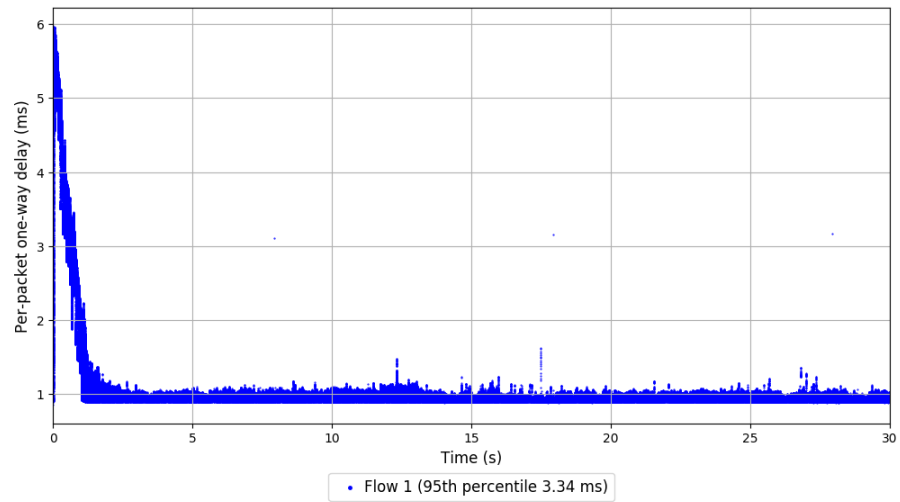
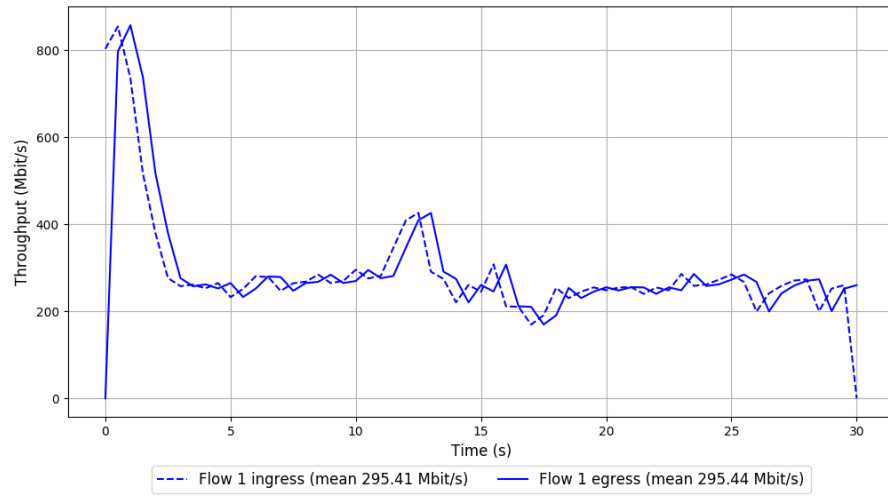
-- Flow 1:

Average throughput: 295.44 Mbit/s

95th percentile per-packet one-way delay: 3.341 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-03-09 08:00:07

End at: 2019-03-09 08:00:37

Local clock offset: 0.106 ms

Remote clock offset: 3.044 ms

Below is generated by plot.py at 2019-03-09 11:05:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 282.24 Mbit/s

95th percentile per-packet one-way delay: 3.184 ms

Loss rate: 0.01%

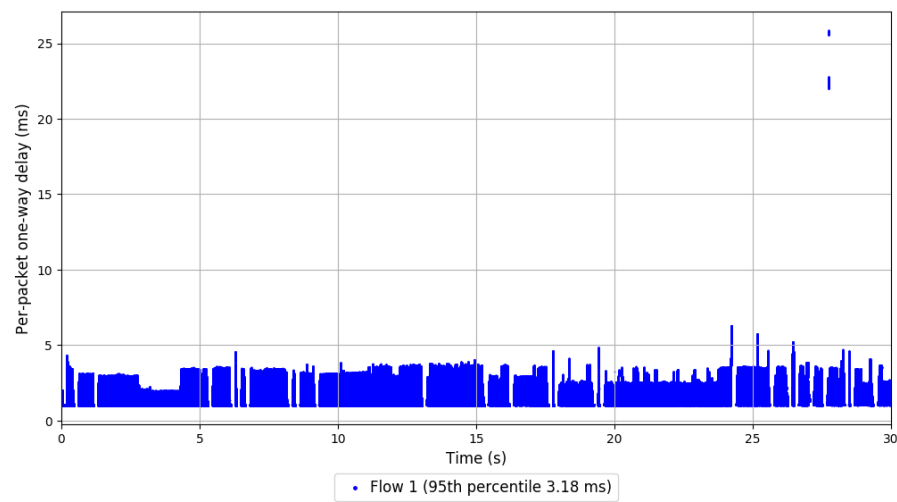
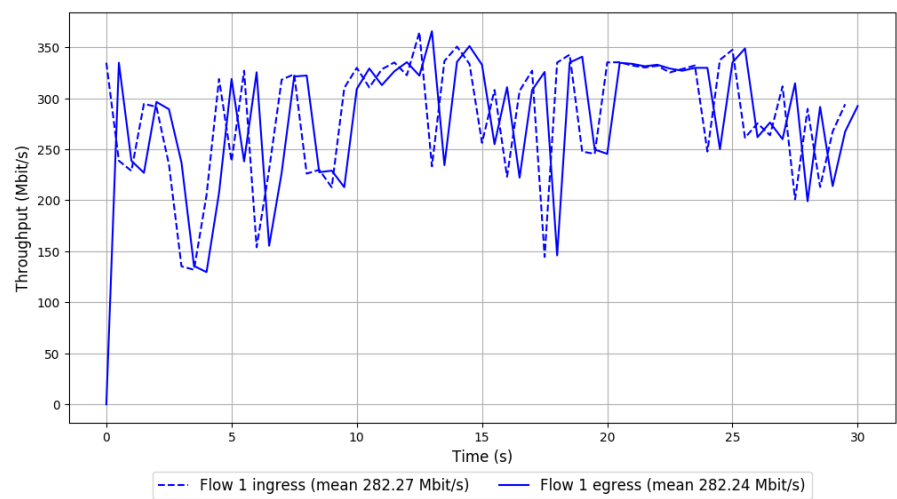
-- Flow 1:

Average throughput: 282.24 Mbit/s

95th percentile per-packet one-way delay: 3.184 ms

Loss rate: 0.01%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-03-09 08:29:28

End at: 2019-03-09 08:29:58

Local clock offset: 0.528 ms

Remote clock offset: 3.107 ms

Below is generated by plot.py at 2019-03-09 11:06:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 291.13 Mbit/s

95th percentile per-packet one-way delay: 2.775 ms

Loss rate: 0.00%

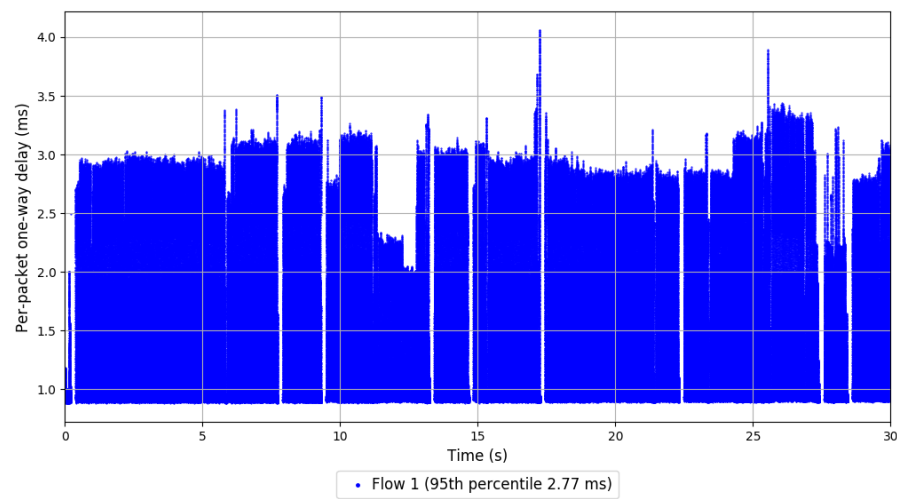
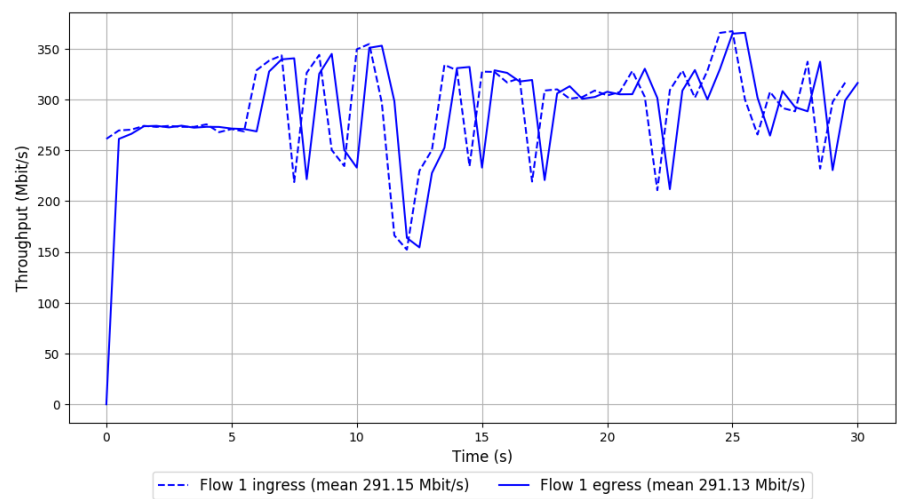
-- Flow 1:

Average throughput: 291.13 Mbit/s

95th percentile per-packet one-way delay: 2.775 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-03-09 08:59:23

End at: 2019-03-09 08:59:53

Local clock offset: 0.432 ms

Remote clock offset: 2.786 ms

Below is generated by plot.py at 2019-03-09 11:06:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 320.67 Mbit/s

95th percentile per-packet one-way delay: 2.745 ms

Loss rate: 0.01%

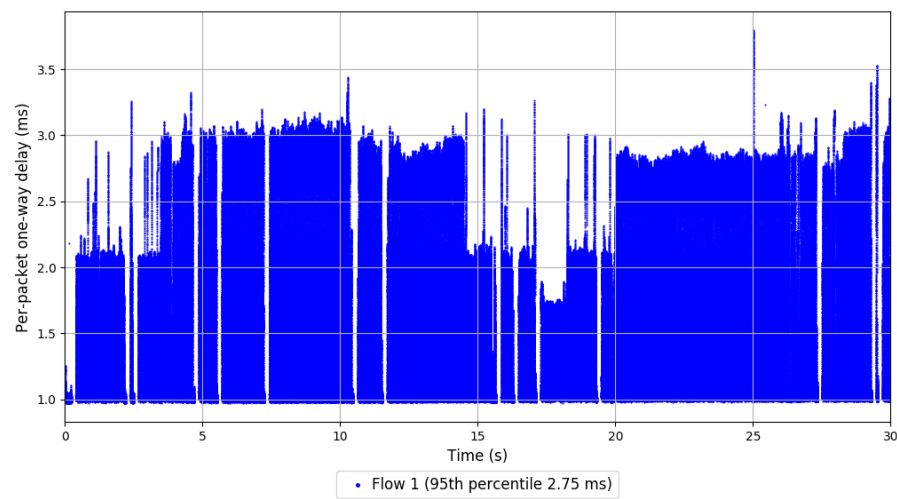
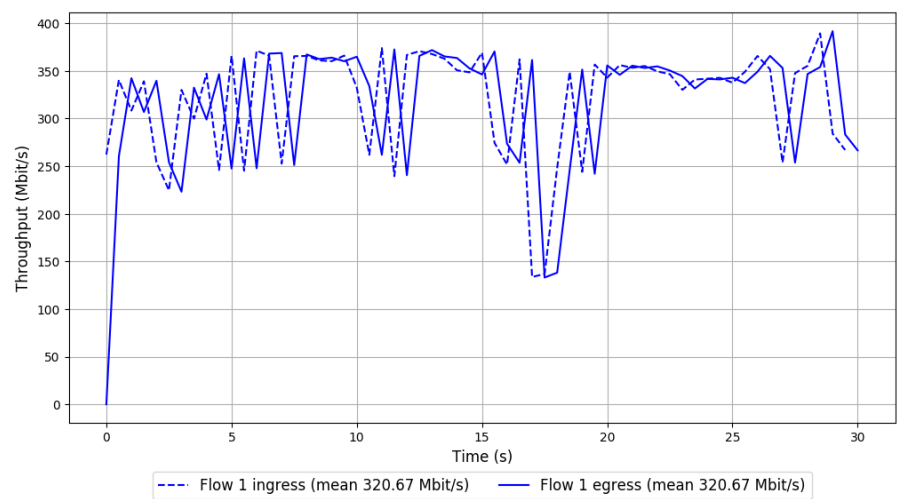
-- Flow 1:

Average throughput: 320.67 Mbit/s

95th percentile per-packet one-way delay: 2.745 ms

Loss rate: 0.01%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-03-09 09:28:57

End at: 2019-03-09 09:29:27

Local clock offset: 0.435 ms

Remote clock offset: 2.137 ms

Below is generated by plot.py at 2019-03-09 11:07:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 299.43 Mbit/s

95th percentile per-packet one-way delay: 2.980 ms

Loss rate: 0.02%

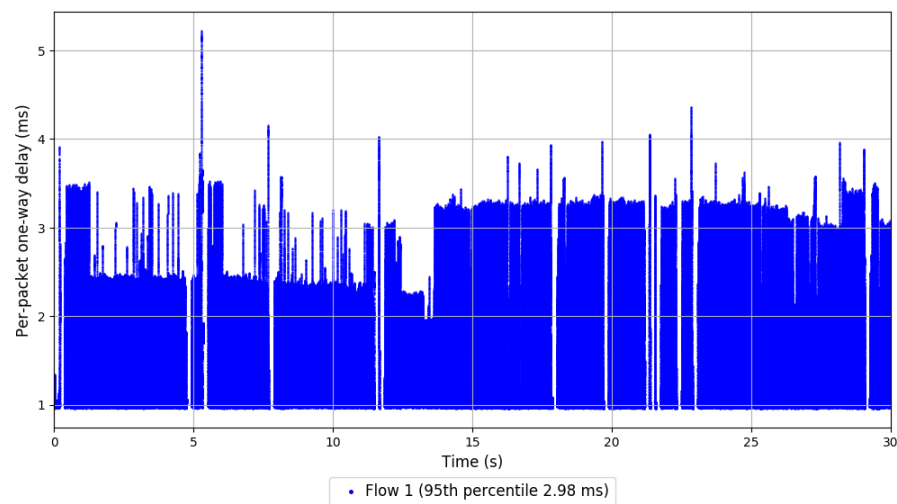
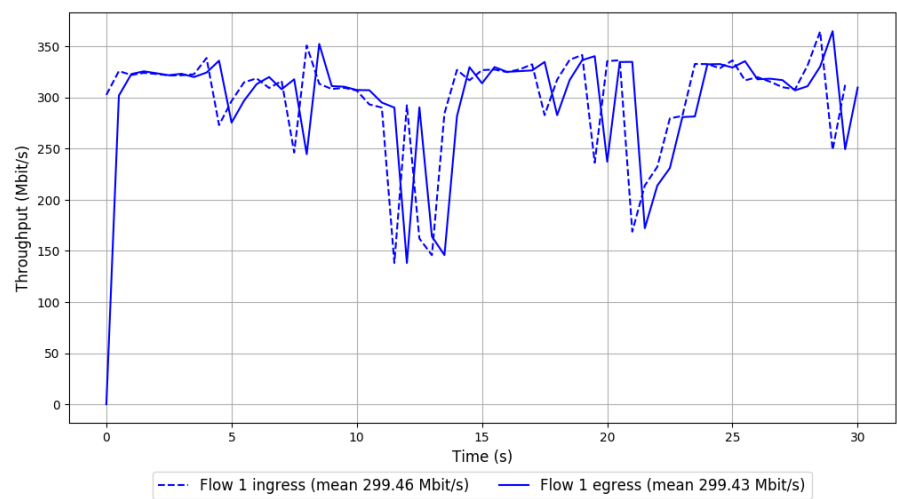
-- Flow 1:

Average throughput: 299.43 Mbit/s

95th percentile per-packet one-way delay: 2.980 ms

Loss rate: 0.02%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-03-09 09:58:33

End at: 2019-03-09 09:59:03

Local clock offset: 3.086 ms

Remote clock offset: 2.095 ms

Below is generated by plot.py at 2019-03-09 11:07:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 283.83 Mbit/s

95th percentile per-packet one-way delay: 2.759 ms

Loss rate: 0.01%

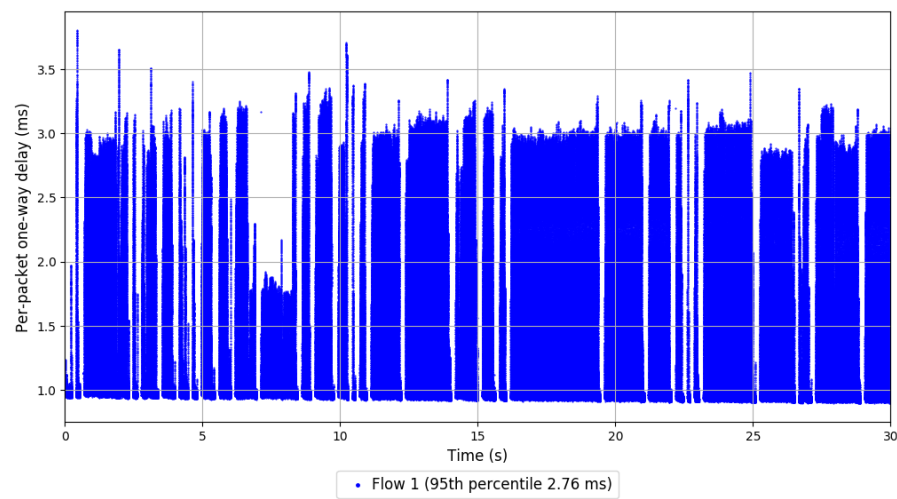
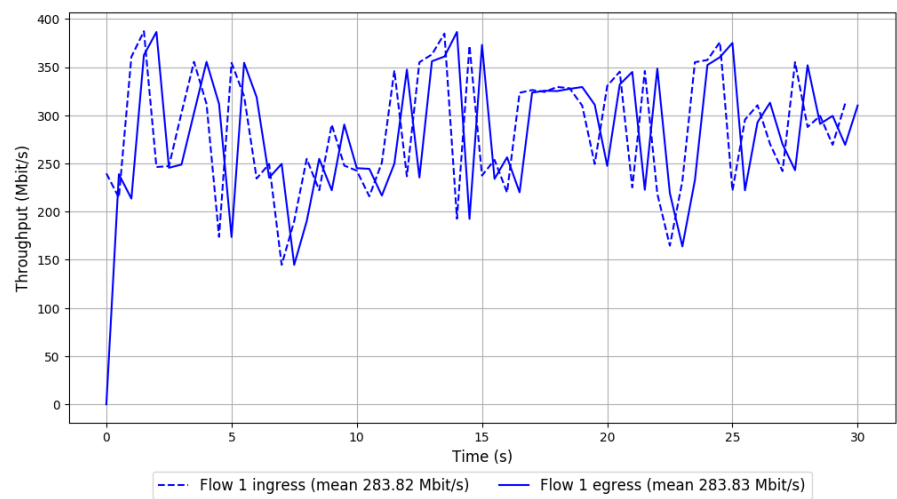
-- Flow 1:

Average throughput: 283.83 Mbit/s

95th percentile per-packet one-way delay: 2.759 ms

Loss rate: 0.01%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-03-09 07:47:04

End at: 2019-03-09 07:47:34

Local clock offset: 0.395 ms

Remote clock offset: 2.472 ms

Below is generated by plot.py at 2019-03-09 11:07:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 287.20 Mbit/s

95th percentile per-packet one-way delay: 0.999 ms

Loss rate: 0.00%

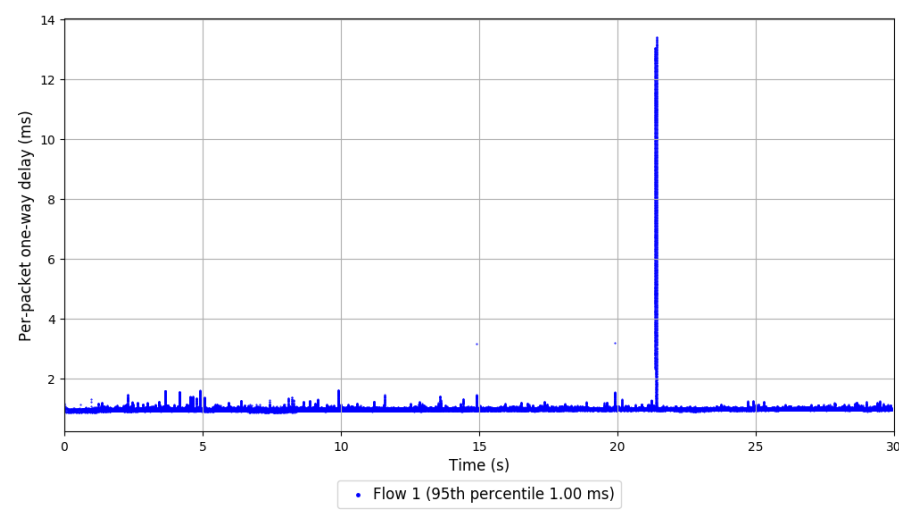
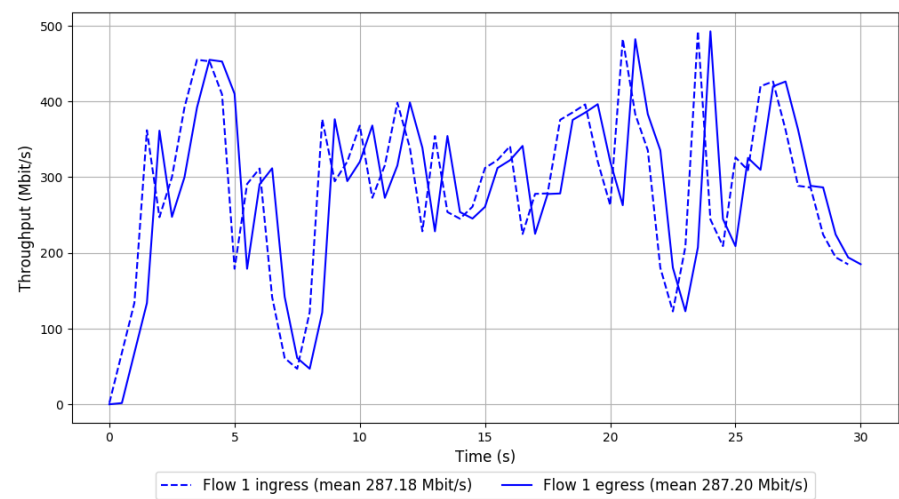
-- Flow 1:

Average throughput: 287.20 Mbit/s

95th percentile per-packet one-way delay: 0.999 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-03-09 08:16:22

End at: 2019-03-09 08:16:52

Local clock offset: 0.091 ms

Remote clock offset: 2.704 ms

Below is generated by plot.py at 2019-03-09 11:07:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 256.78 Mbit/s

95th percentile per-packet one-way delay: 0.986 ms

Loss rate: 0.00%

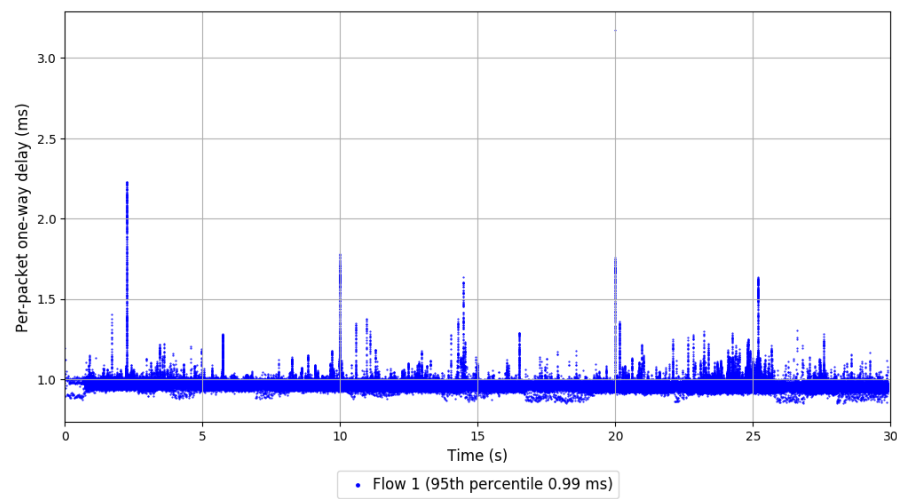
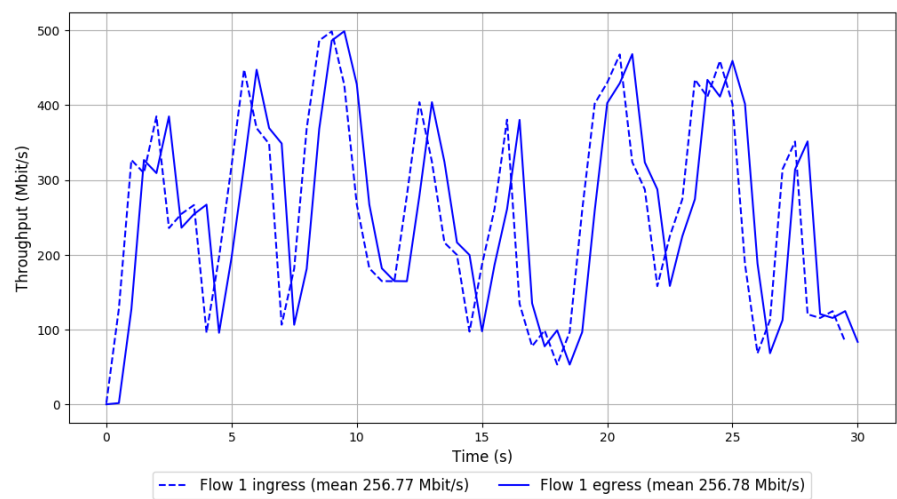
-- Flow 1:

Average throughput: 256.78 Mbit/s

95th percentile per-packet one-way delay: 0.986 ms

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-03-09 08:46:10

End at: 2019-03-09 08:46:40

Local clock offset: 0.573 ms

Remote clock offset: 2.758 ms

Below is generated by plot.py at 2019-03-09 11:08:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 309.09 Mbit/s

95th percentile per-packet one-way delay: 1.013 ms

Loss rate: 0.01%

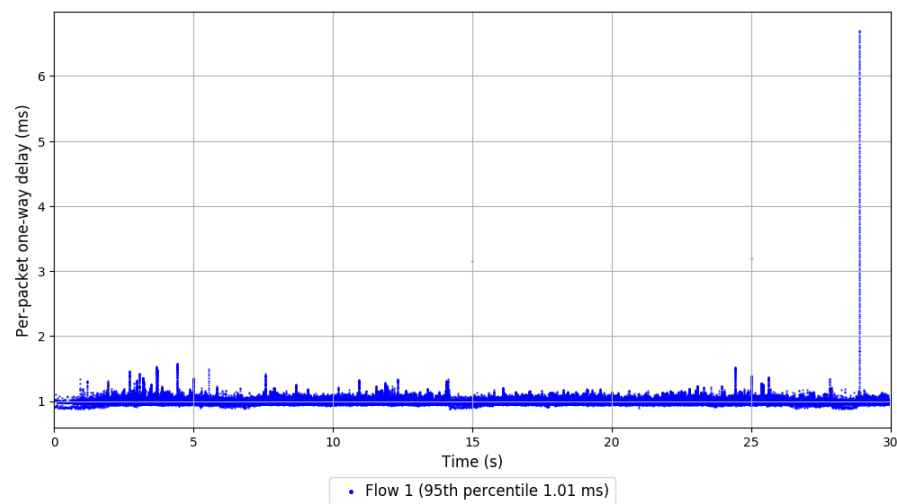
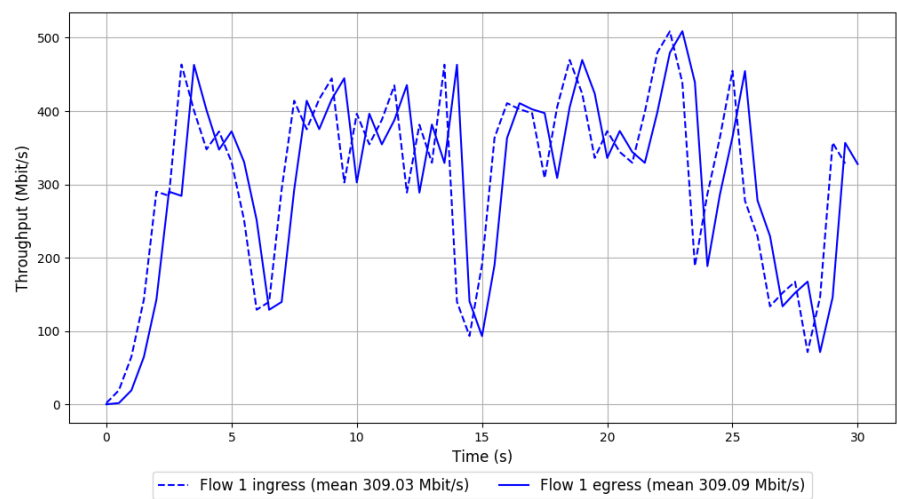
-- Flow 1:

Average throughput: 309.09 Mbit/s

95th percentile per-packet one-way delay: 1.013 ms

Loss rate: 0.01%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-03-09 09:15:49

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

Local clock offset: 0.403 ms

Remote clock offset: 2.539 ms

Below is generated by plot.py at 2019-03-09 11:08:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 268.97 Mbit/s

95th percentile per-packet one-way delay: 0.953 ms

Loss rate: 0.00%

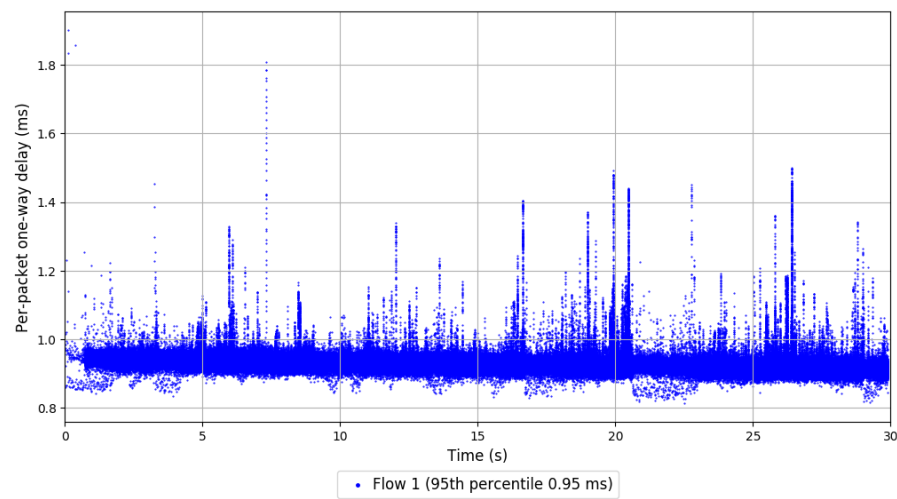
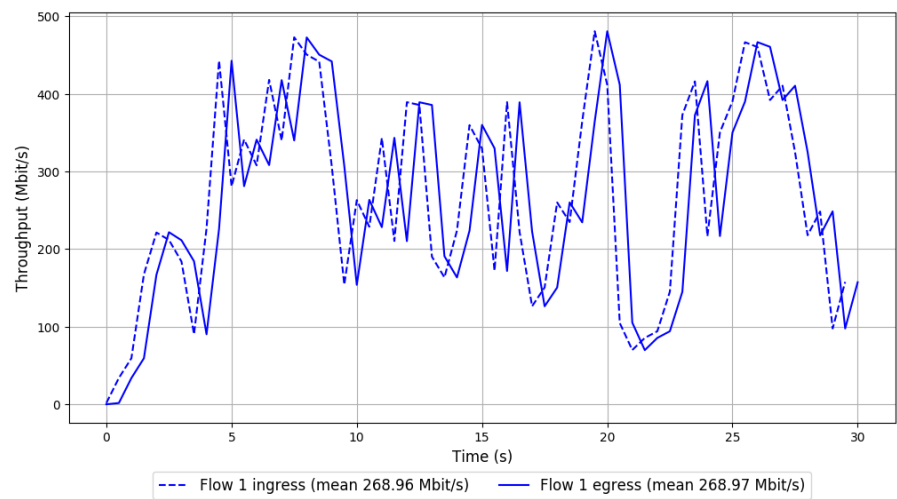
-- Flow 1:

Average throughput: 268.97 Mbit/s

95th percentile per-packet one-way delay: 0.953 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-03-09 09:45:25

End at: 2019-03-09 09:45:55

Local clock offset: 0.711 ms

Remote clock offset: 2.077 ms

Below is generated by plot.py at 2019-03-09 11:08:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 250.94 Mbit/s

95th percentile per-packet one-way delay: 0.749 ms

Loss rate: 0.01%

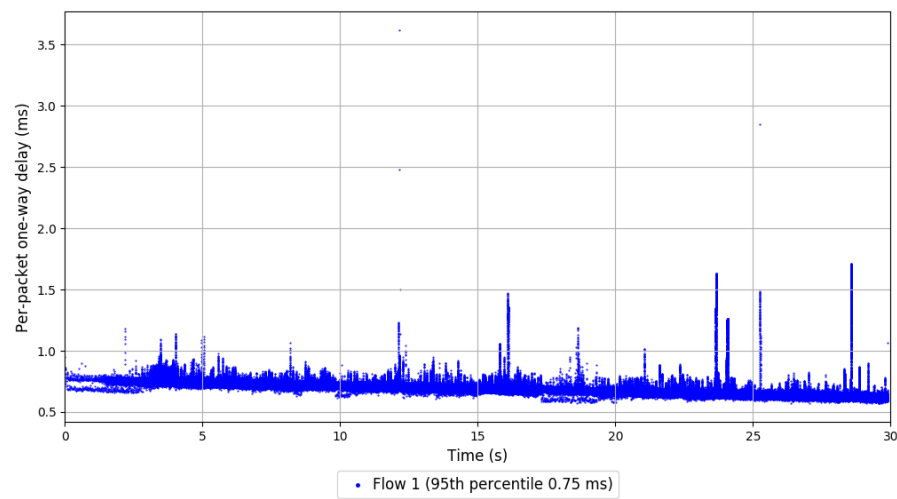
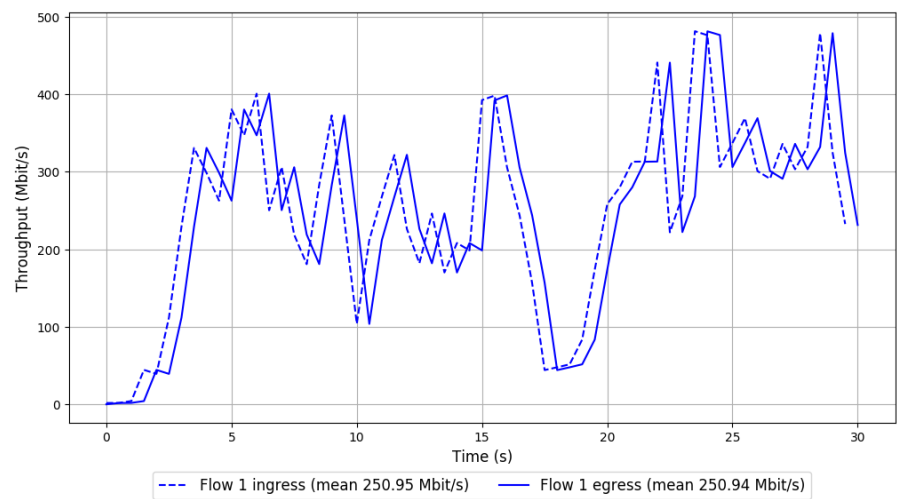
-- Flow 1:

Average throughput: 250.94 Mbit/s

95th percentile per-packet one-way delay: 0.749 ms

Loss rate: 0.01%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-03-09 08:01:32

End at: 2019-03-09 08:02:02

Local clock offset: 0.095 ms

Remote clock offset: 3.139 ms

Below is generated by plot.py at 2019-03-09 11:08:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.106 ms

Loss rate: 0.00%

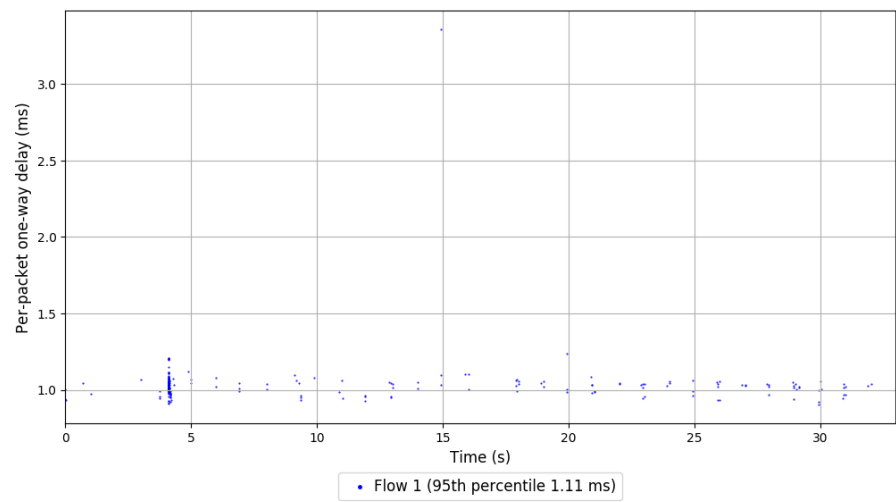
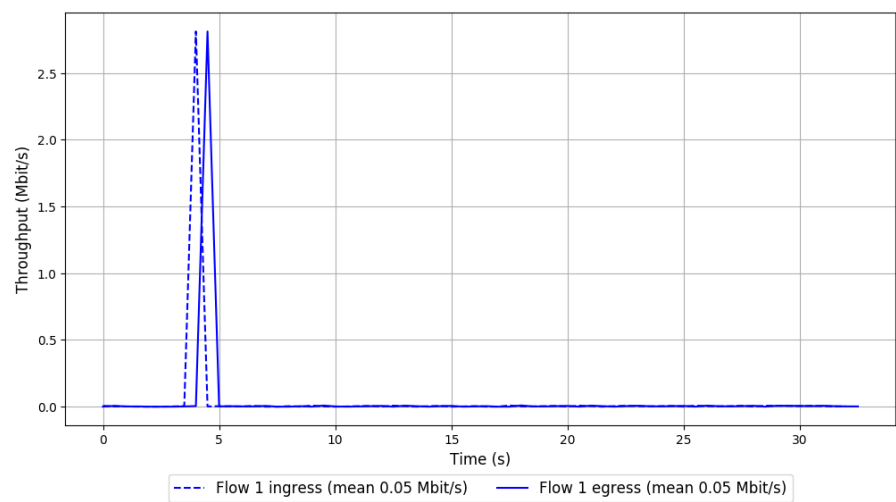
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.106 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-03-09 08:30:54

End at: 2019-03-09 08:31:24

Local clock offset: 0.541 ms

Remote clock offset: 3.161 ms

Below is generated by plot.py at 2019-03-09 11:08:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 0.999 ms

Loss rate: 0.00%

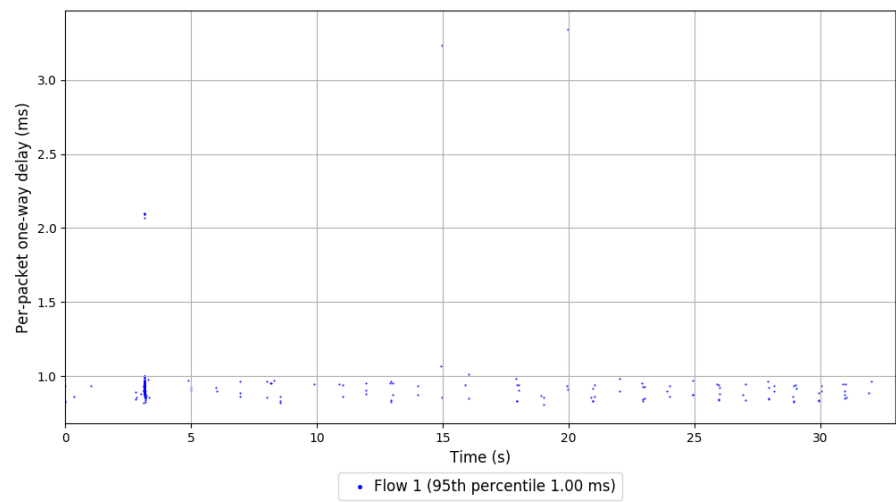
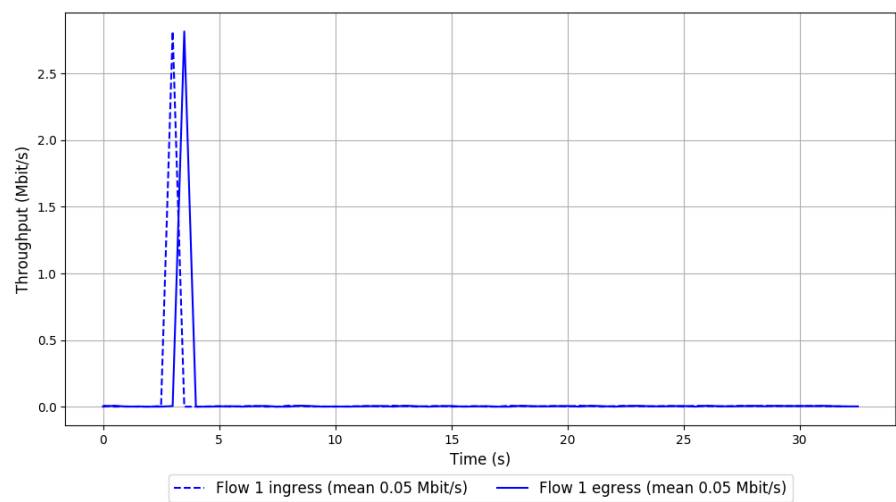
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 0.999 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-03-09 09:00:50

End at: 2019-03-09 09:01:20

Local clock offset: 0.43 ms

Remote clock offset: 2.836 ms

Below is generated by plot.py at 2019-03-09 11:08:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.056 ms

Loss rate: 0.00%

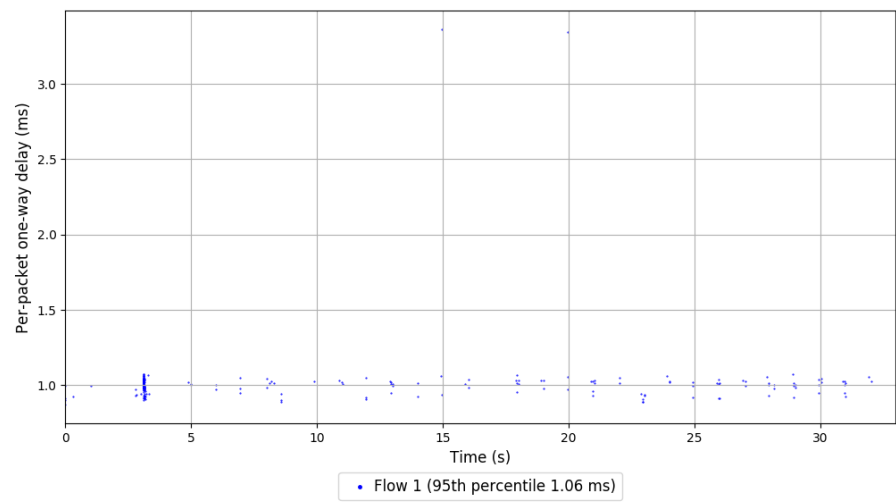
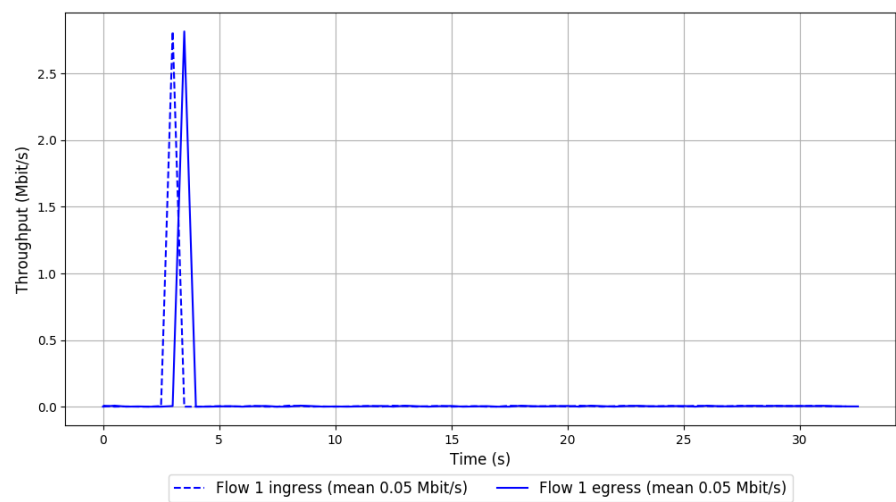
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.056 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-03-09 09:30:23

End at: 2019-03-09 09:30:53

Local clock offset: 0.411 ms

Remote clock offset: 2.23 ms

Below is generated by plot.py at 2019-03-09 11:08:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.114 ms

Loss rate: 0.00%

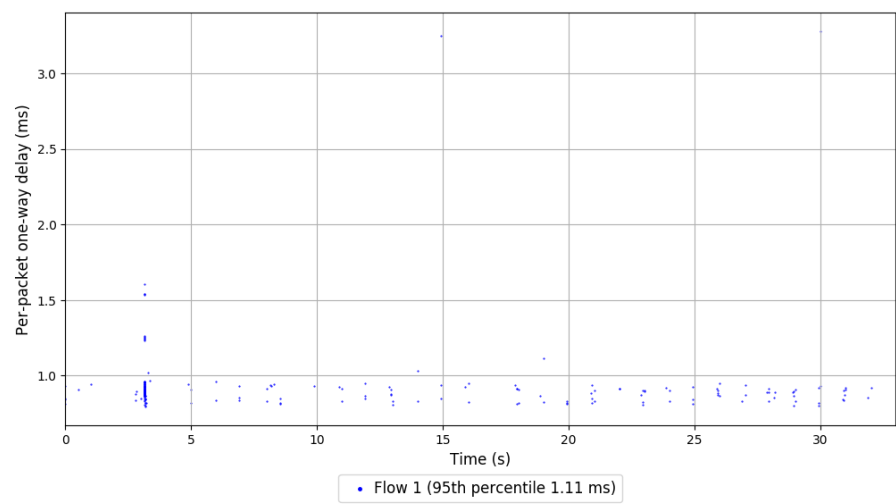
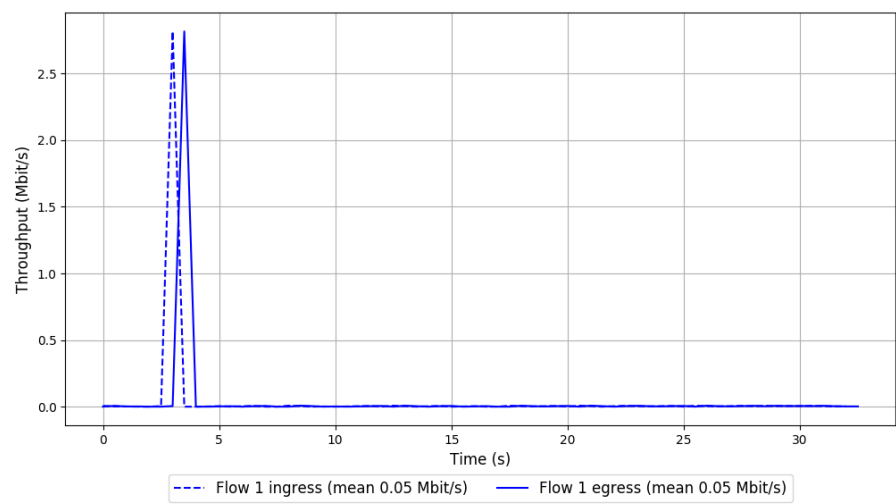
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.114 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-03-09 09:59:58

End at: 2019-03-09 10:00:28

Local clock offset: 3.19 ms

Remote clock offset: 2.199 ms

Below is generated by plot.py at 2019-03-09 11:08:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 0.937 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 0.937 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

