

Pantheon Report

Generated at 2019-09-18 19:36:20 (UTC).

Data path: Stanford on `eno1` (*remote*) → AWS California 1 on `ens5` (*local*).

Repeated the test of 24 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:

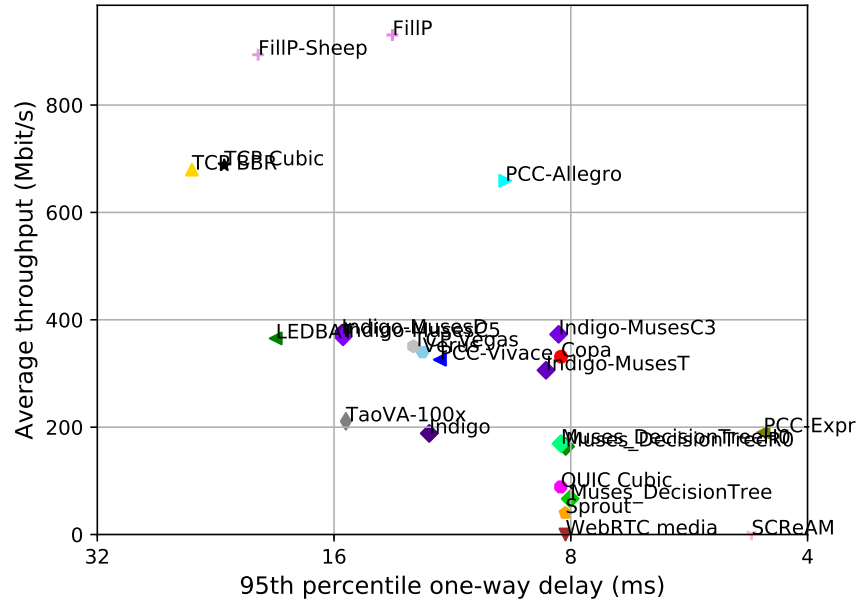
```
Linux 4.15.0-1045-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

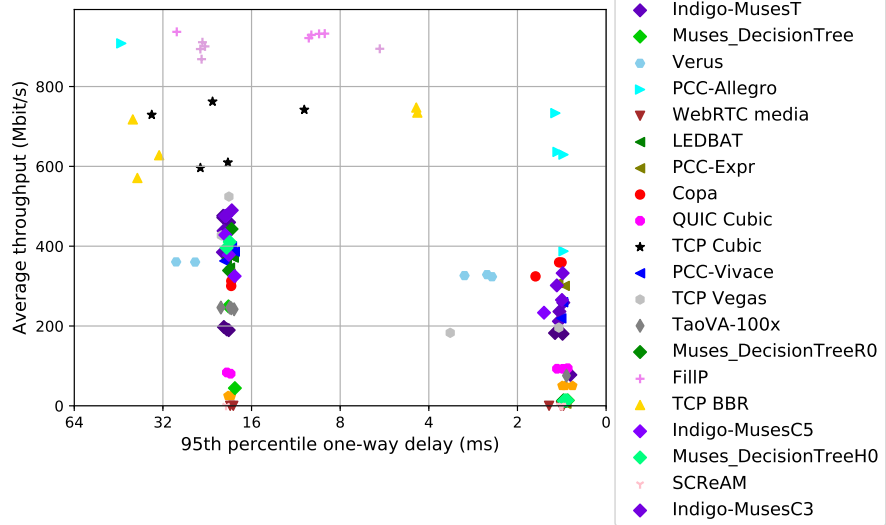
```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
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	679.77	24.26	0.06
Copa	5	331.25	8.23	0.03
TCP Cubic	5	687.76	22.07	0.06
FillP	5	930.47	13.49	0.04
FillP-Sheep	5	893.73	19.98	0.04
Indigo	5	188.34	12.11	0.05
Indigo-MusesC3	5	372.95	8.29	0.03
Indigo-MusesC5	5	368.18	15.59	0.06
Indigo-MusesD	5	374.20	15.66	0.06
Indigo-MusesT	5	305.98	8.60	0.03
LEDBAT	5	365.35	18.98	0.07
Muses_DecisionTree	5	66.58	8.01	0.02
Muses_DecisionTreeH0	5	169.28	8.23	0.04
Muses_DecisionTreeR0	5	164.15	8.12	0.03
PCC-Allegro	5	658.91	9.69	0.02
PCC-Expr	5	190.52	4.55	0.02
QUIC Cubic	5	88.77	8.24	0.03
SCReAM	5	0.22	4.71	0.05
Sprout	5	40.14	8.13	0.06
TaoVA-100x	5	210.87	15.45	0.05
TCP Vegas	5	350.72	12.68	0.03
Verus	5	339.86	12.35	0.03
PCC-Vivace	5	325.59	11.74	0.04
WebRTC media	5	0.05	8.13	0.01

Run 1: Statistics of TCP BBR

Start at: 2019-09-18 15:55:59

End at: 2019-09-18 15:56:29

Local clock offset: -0.091 ms

Remote clock offset: 0.509 ms

Below is generated by plot.py at 2019-09-18 18:36:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 717.72 Mbit/s

95th percentile per-packet one-way delay: 40.491 ms

Loss rate: 0.13%

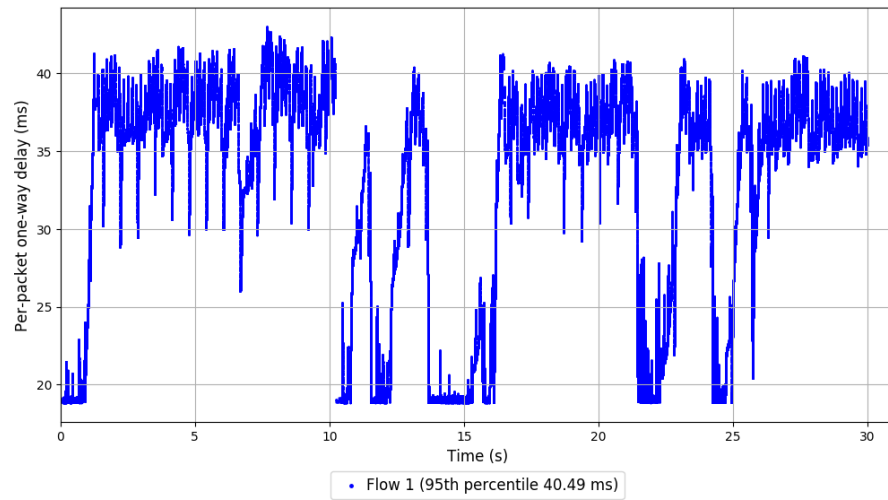
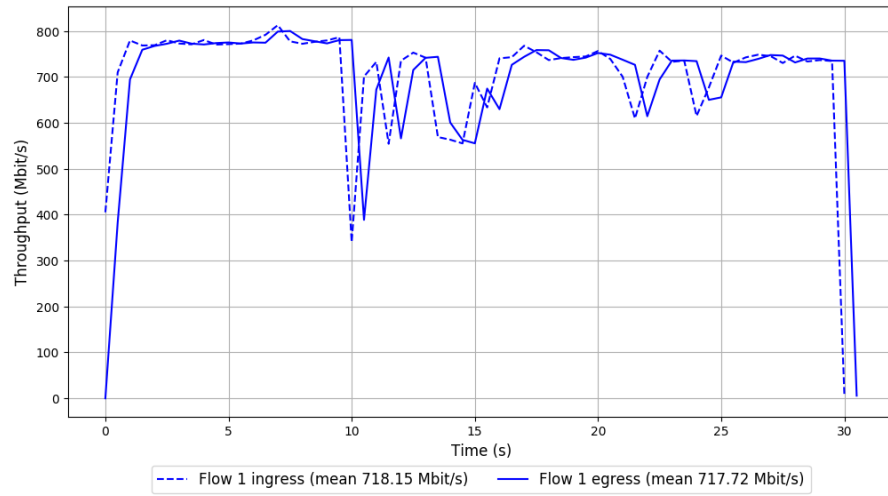
-- Flow 1:

Average throughput: 717.72 Mbit/s

95th percentile per-packet one-way delay: 40.491 ms

Loss rate: 0.13%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-09-18 16:29:53

End at: 2019-09-18 16:30:23

Local clock offset: 3.927 ms

Remote clock offset: 0.308 ms

Below is generated by plot.py at 2019-09-18 18:36:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 627.96 Mbit/s

95th percentile per-packet one-way delay: 32.952 ms

Loss rate: 0.05%

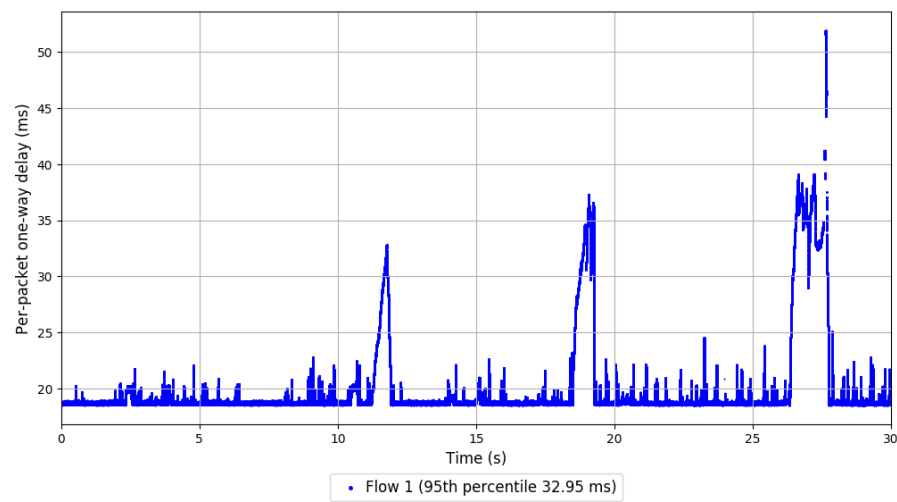
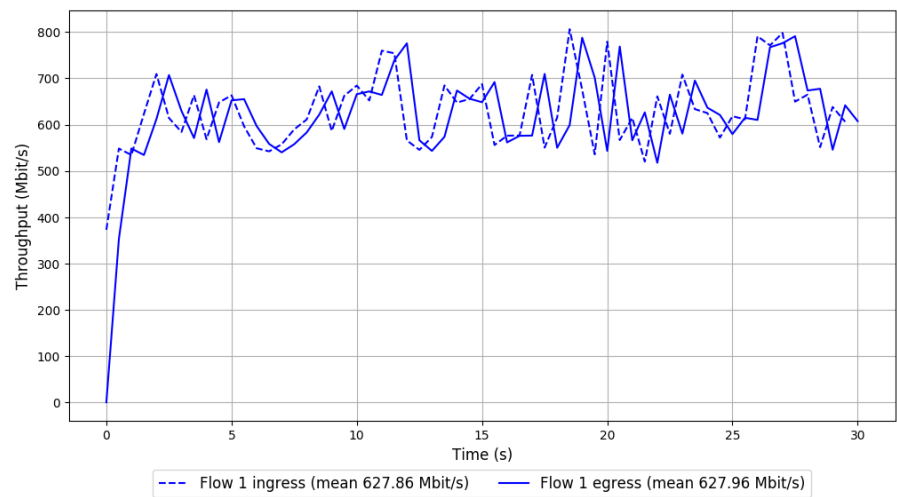
-- Flow 1:

Average throughput: 627.96 Mbit/s

95th percentile per-packet one-way delay: 32.952 ms

Loss rate: 0.05%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-09-18 17:04:08

End at: 2019-09-18 17:04:38

Local clock offset: 3.174 ms

Remote clock offset: 0.386 ms

Below is generated by plot.py at 2019-09-18 18:36:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 570.96 Mbit/s

95th percentile per-packet one-way delay: 39.069 ms

Loss rate: 0.10%

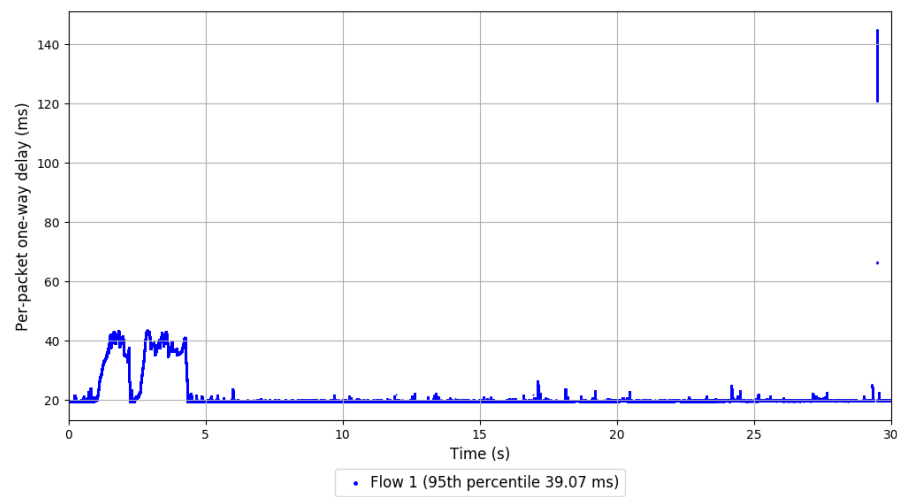
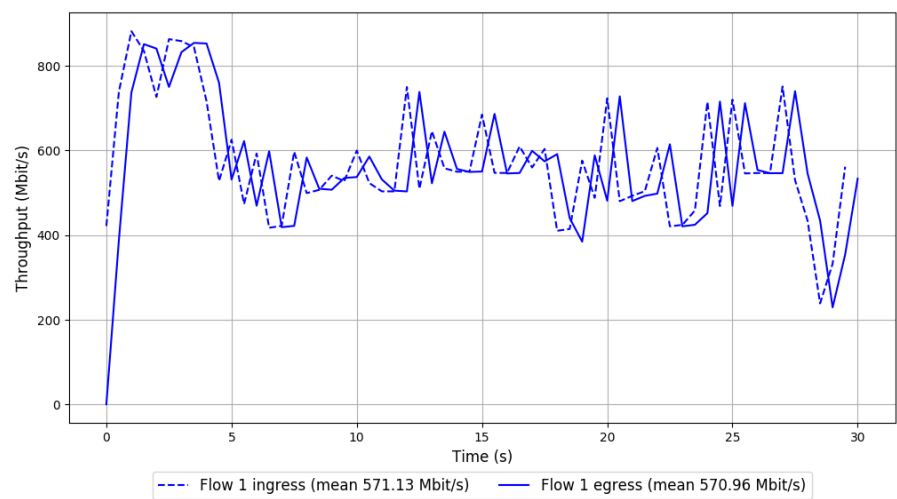
-- Flow 1:

Average throughput: 570.96 Mbit/s

95th percentile per-packet one-way delay: 39.069 ms

Loss rate: 0.10%

Run 3: Report of TCP BBR — Data Link

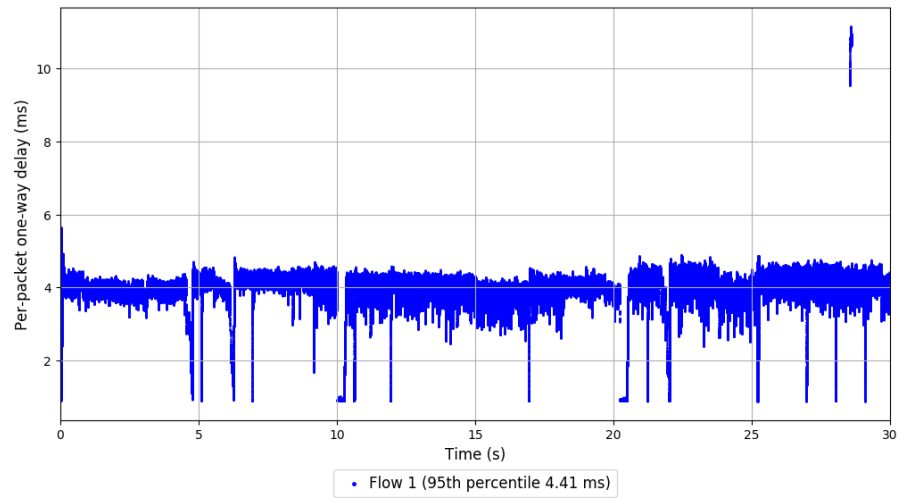
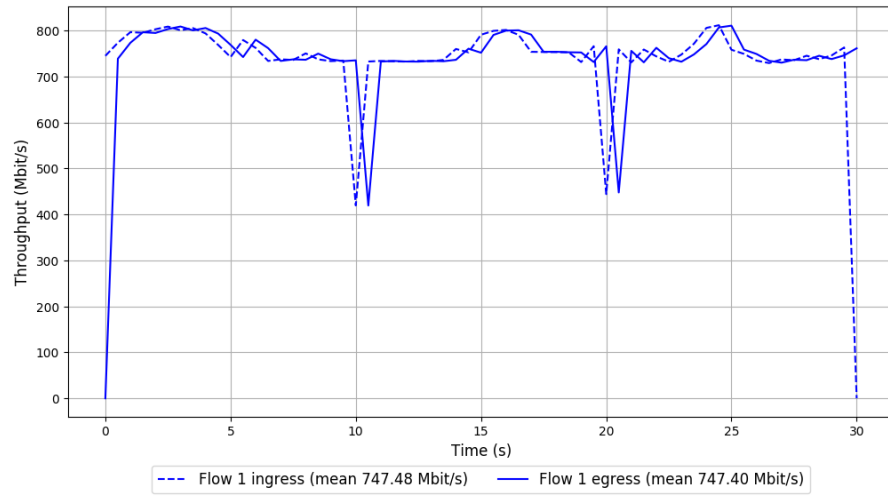


Run 4: Statistics of TCP BBR

Start at: 2019-09-18 17:38:38
End at: 2019-09-18 17:39:08
Local clock offset: -0.707 ms
Remote clock offset: -0.005 ms

Below is generated by plot.py at 2019-09-18 18:36:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 747.40 Mbit/s
95th percentile per-packet one-way delay: 4.412 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 747.40 Mbit/s
95th percentile per-packet one-way delay: 4.412 ms
Loss rate: 0.02%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-09-18 18:12:20

End at: 2019-09-18 18:12:50

Local clock offset: -0.261 ms

Remote clock offset: 3.24 ms

Below is generated by plot.py at 2019-09-18 18:36:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 734.80 Mbit/s

95th percentile per-packet one-way delay: 4.376 ms

Loss rate: 0.01%

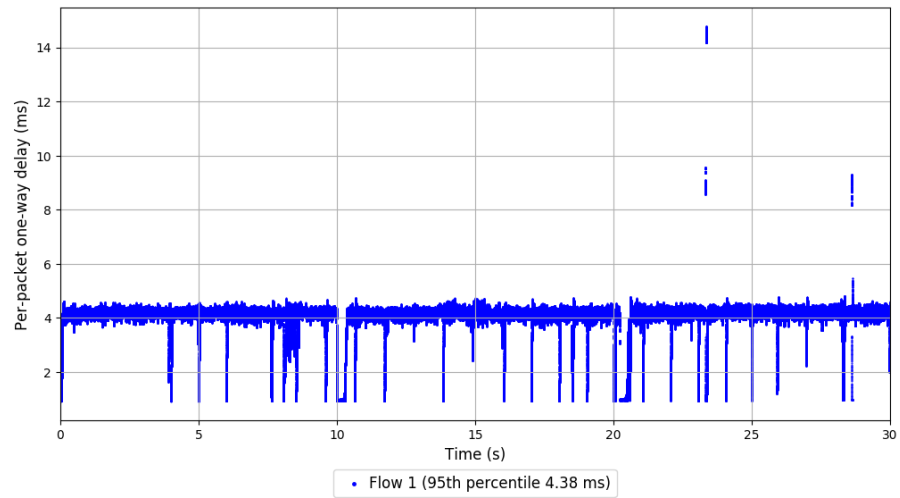
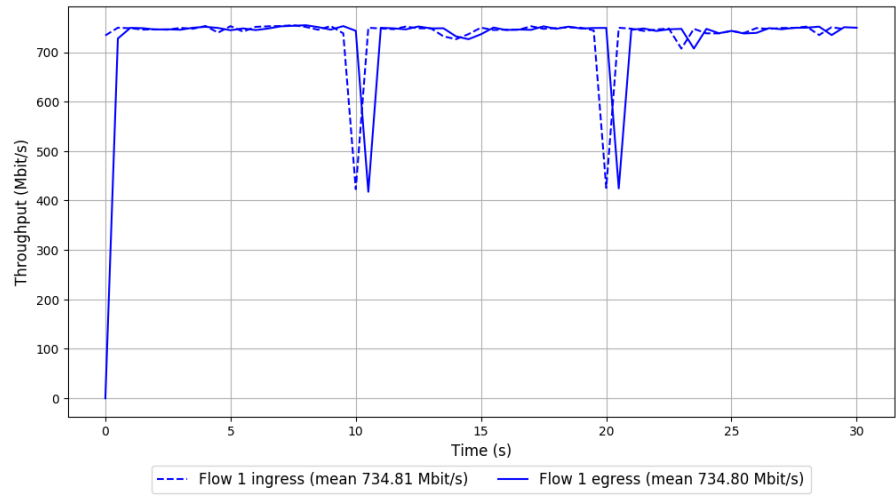
-- Flow 1:

Average throughput: 734.80 Mbit/s

95th percentile per-packet one-way delay: 4.376 ms

Loss rate: 0.01%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-09-18 16:00:03

End at: 2019-09-18 16:00:33

Local clock offset: -0.146 ms

Remote clock offset: 0.576 ms

Below is generated by plot.py at 2019-09-18 18:36:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 359.19 Mbit/s

95th percentile per-packet one-way delay: 1.005 ms

Loss rate: 0.01%

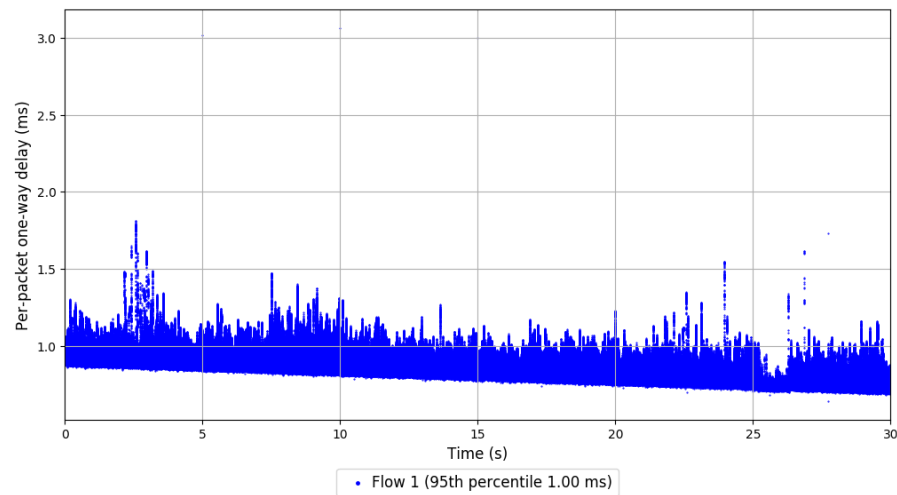
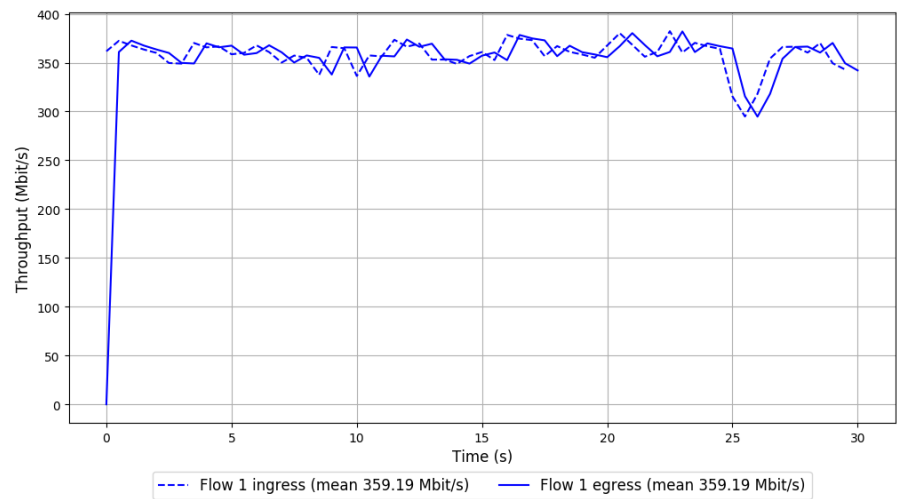
-- Flow 1:

Average throughput: 359.19 Mbit/s

95th percentile per-packet one-way delay: 1.005 ms

Loss rate: 0.01%

Run 1: Report of Copa — Data Link

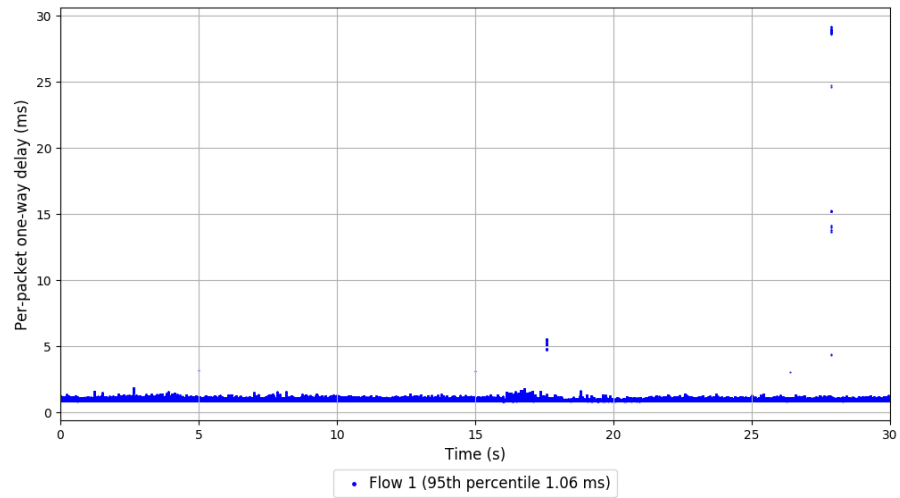
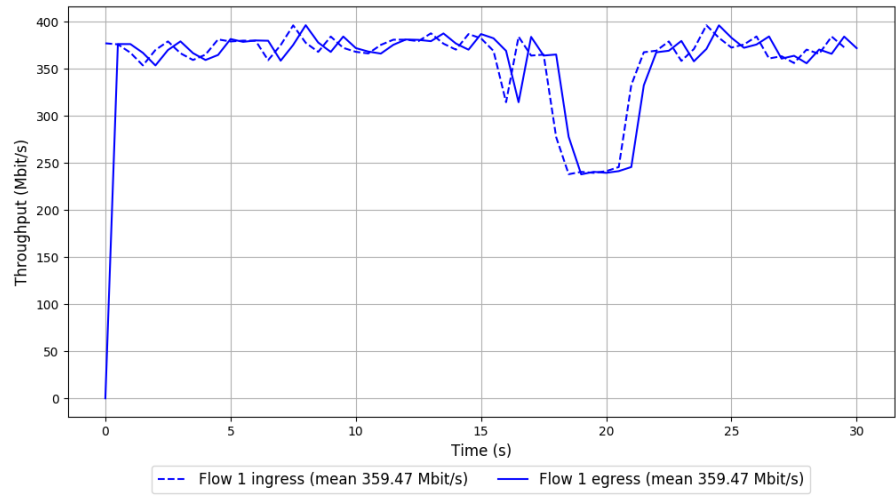


Run 2: Statistics of Copa

Start at: 2019-09-18 16:34:10
End at: 2019-09-18 16:34:40
Local clock offset: 4.059 ms
Remote clock offset: 0.236 ms

Below is generated by plot.py at 2019-09-18 18:36:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 359.47 Mbit/s
95th percentile per-packet one-way delay: 1.060 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 359.47 Mbit/s
95th percentile per-packet one-way delay: 1.060 ms
Loss rate: 0.01%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-09-18 17:08:20

End at: 2019-09-18 17:08:50

Local clock offset: 1.659 ms

Remote clock offset: 0.319 ms

Below is generated by plot.py at 2019-09-18 18:36:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 324.33 Mbit/s

95th percentile per-packet one-way delay: 1.593 ms

Loss rate: 0.01%

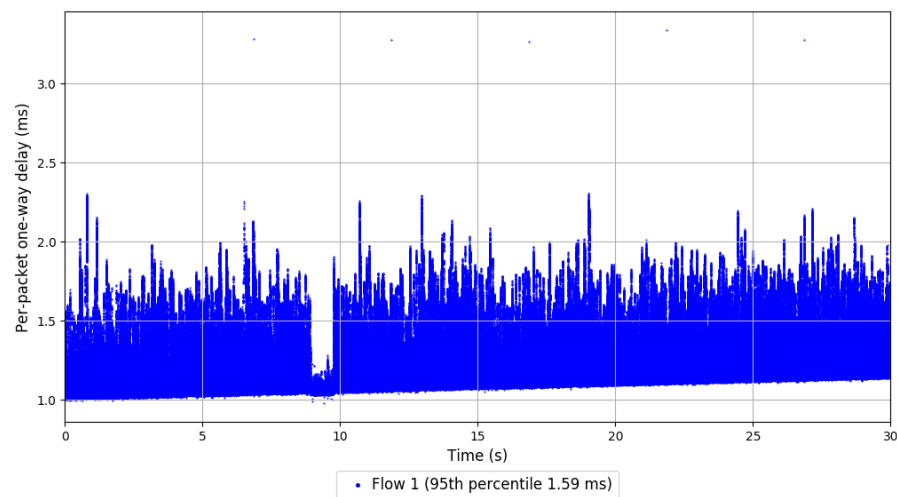
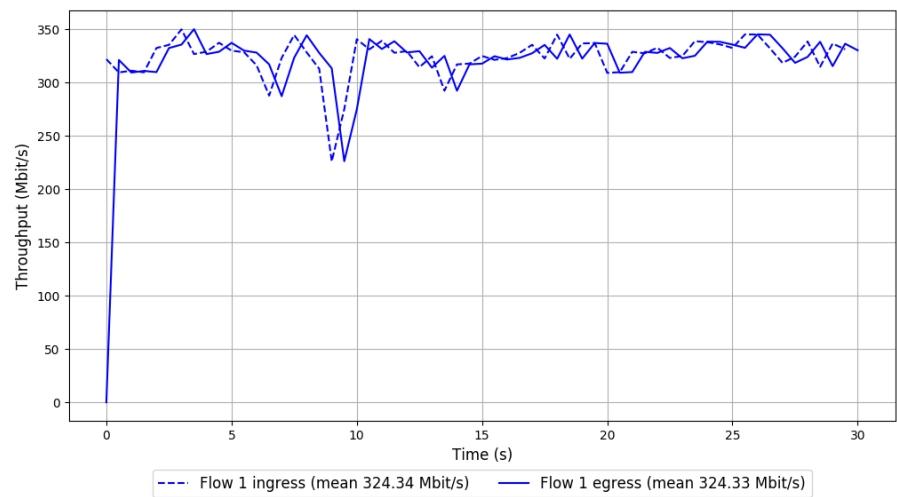
-- Flow 1:

Average throughput: 324.33 Mbit/s

95th percentile per-packet one-way delay: 1.593 ms

Loss rate: 0.01%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-09-18 17:42:43

End at: 2019-09-18 17:43:13

Local clock offset: -0.552 ms

Remote clock offset: 0.112 ms

Below is generated by plot.py at 2019-09-18 18:41:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 312.85 Mbit/s

95th percentile per-packet one-way delay: 18.746 ms

Loss rate: 0.07%

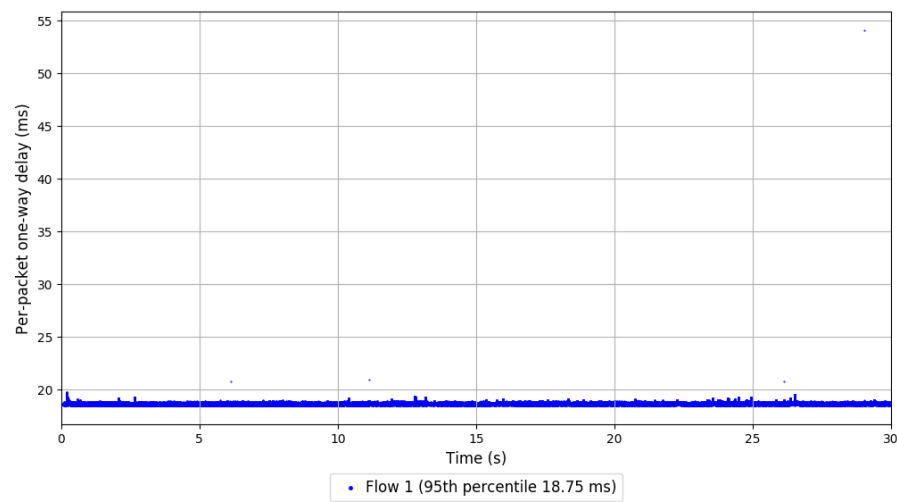
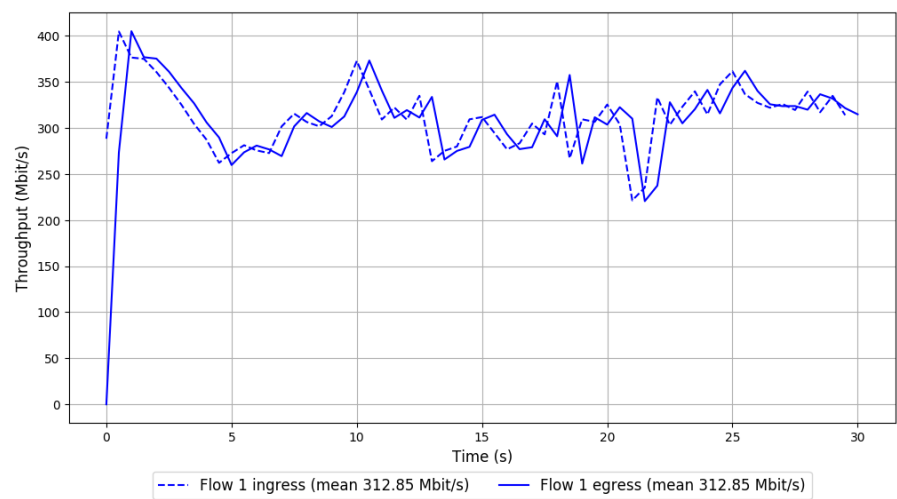
-- Flow 1:

Average throughput: 312.85 Mbit/s

95th percentile per-packet one-way delay: 18.746 ms

Loss rate: 0.07%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-09-18 18:16:25

End at: 2019-09-18 18:16:55

Local clock offset: -0.254 ms

Remote clock offset: 3.654 ms

Below is generated by plot.py at 2019-09-18 18:41:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 300.39 Mbit/s

95th percentile per-packet one-way delay: 18.759 ms

Loss rate: 0.07%

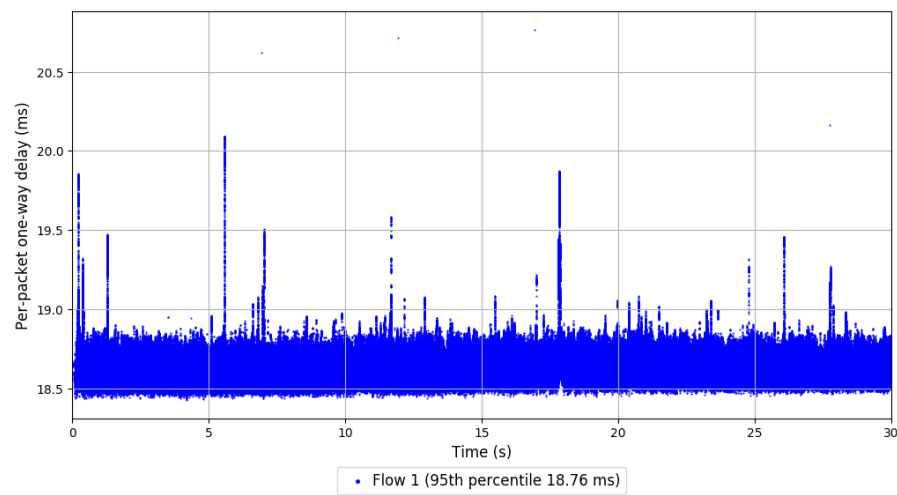
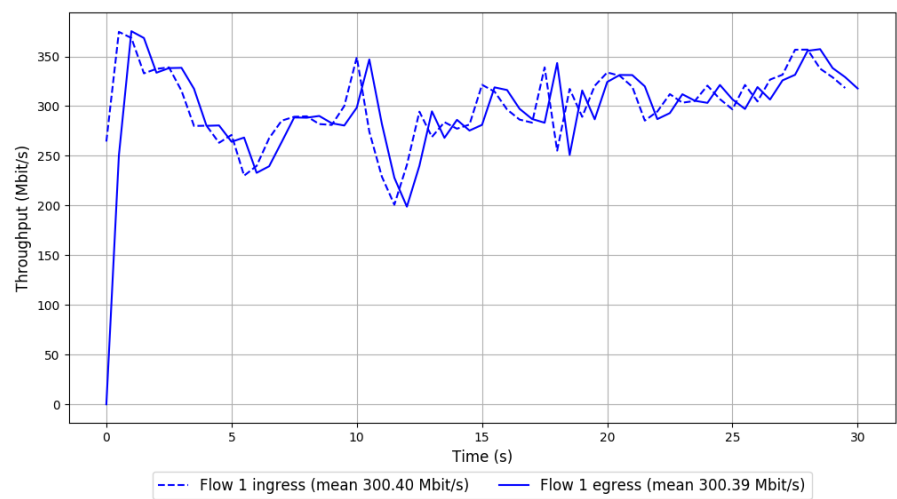
-- Flow 1:

Average throughput: 300.39 Mbit/s

95th percentile per-packet one-way delay: 18.759 ms

Loss rate: 0.07%

Run 5: Report of Copa — Data Link

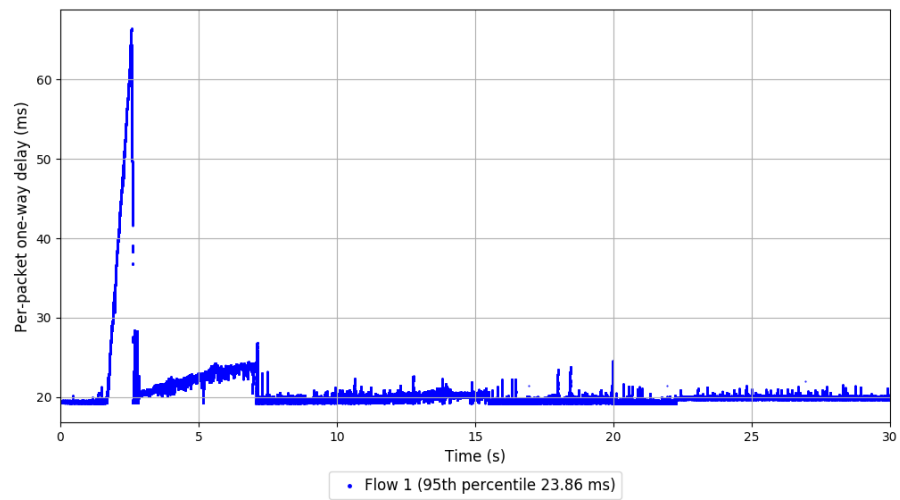
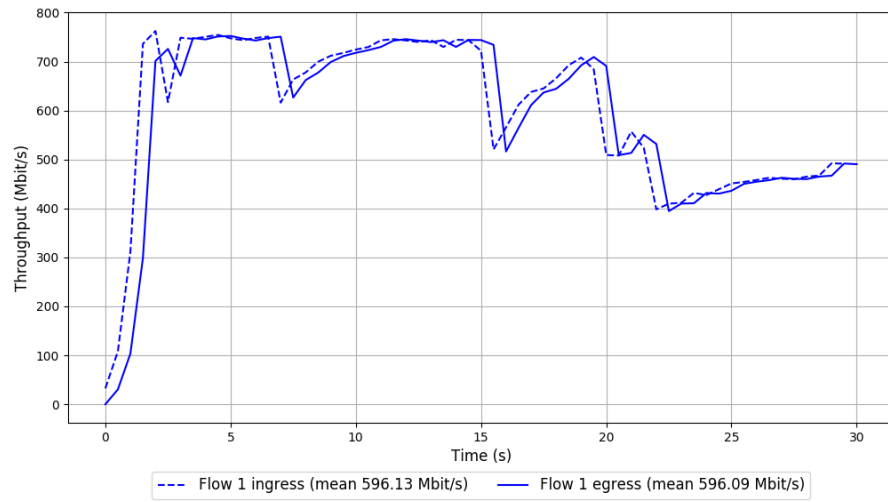


Run 1: Statistics of TCP Cubic

Start at: 2019-09-18 15:30:07
End at: 2019-09-18 15:30:37
Local clock offset: -0.29 ms
Remote clock offset: -0.103 ms

Below is generated by plot.py at 2019-09-18 18:42:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 596.09 Mbit/s
95th percentile per-packet one-way delay: 23.864 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 596.09 Mbit/s
95th percentile per-packet one-way delay: 23.864 ms
Loss rate: 0.08%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-09-18 16:04:24

End at: 2019-09-18 16:04:54

Local clock offset: 1.1 ms

Remote clock offset: 0.615 ms

Below is generated by plot.py at 2019-09-18 18:44:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 729.17 Mbit/s

95th percentile per-packet one-way delay: 34.925 ms

Loss rate: 0.04%

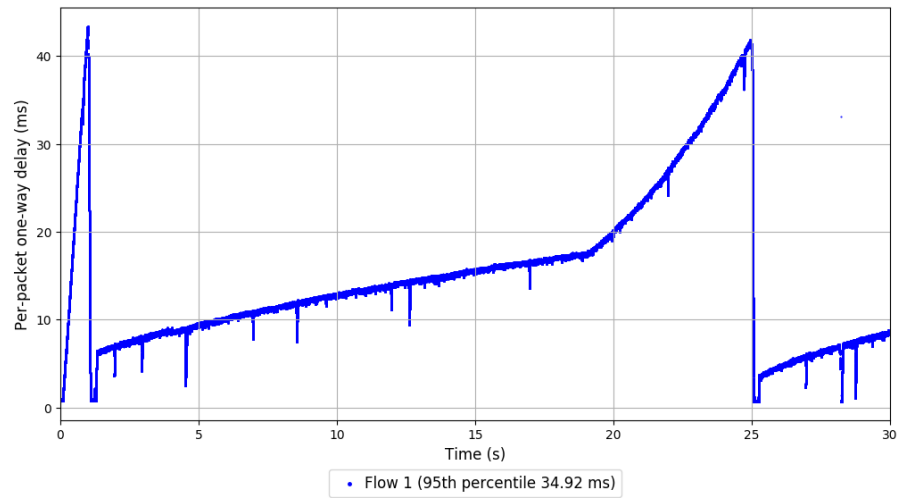
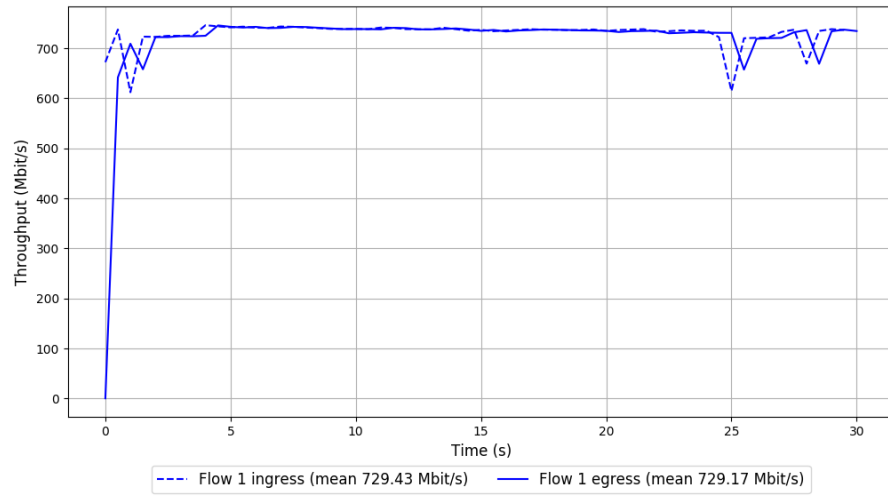
-- Flow 1:

Average throughput: 729.17 Mbit/s

95th percentile per-packet one-way delay: 34.925 ms

Loss rate: 0.04%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2019-09-18 16:38:28

End at: 2019-09-18 16:38:58

Local clock offset: 4.247 ms

Remote clock offset: 0.25 ms

Below is generated by plot.py at 2019-09-18 18:44:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 741.76 Mbit/s

95th percentile per-packet one-way delay: 10.591 ms

Loss rate: 0.04%

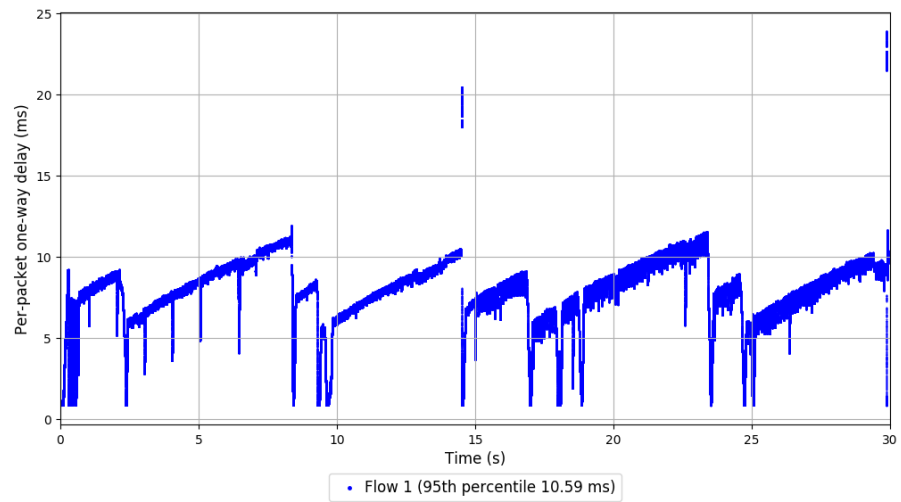
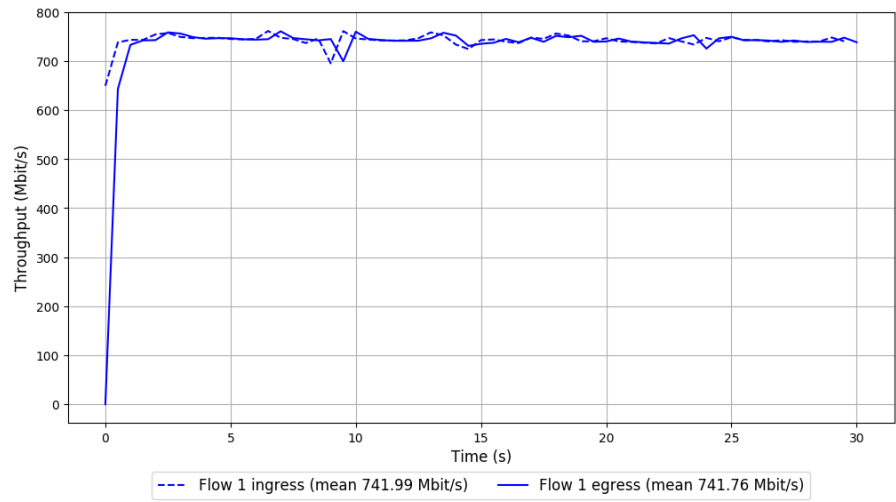
-- Flow 1:

Average throughput: 741.76 Mbit/s

95th percentile per-packet one-way delay: 10.591 ms

Loss rate: 0.04%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-09-18 17:12:35

End at: 2019-09-18 17:13:05

Local clock offset: 0.664 ms

Remote clock offset: 0.312 ms

Below is generated by plot.py at 2019-09-18 18:44:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 762.22 Mbit/s

95th percentile per-packet one-way delay: 21.706 ms

Loss rate: 0.06%

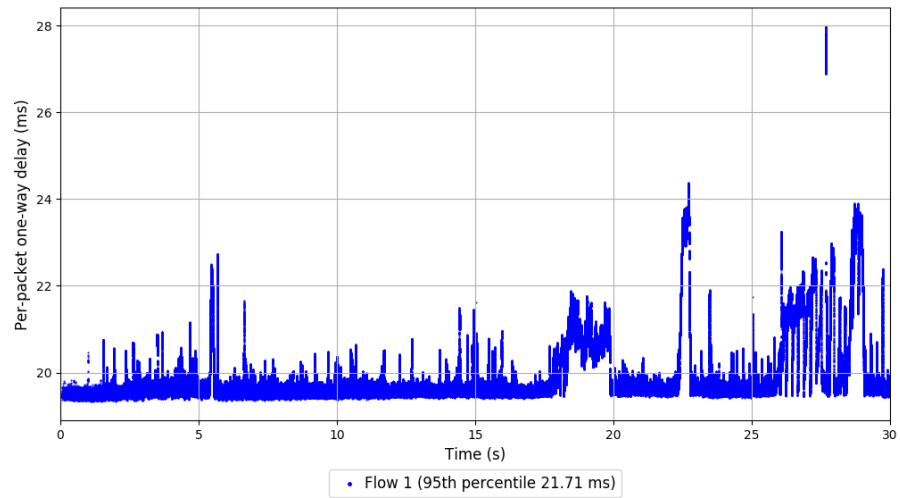
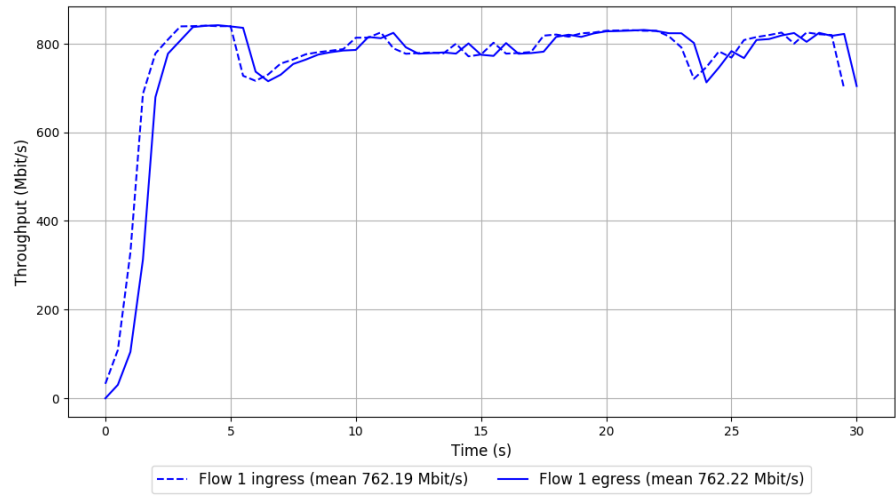
-- Flow 1:

Average throughput: 762.22 Mbit/s

95th percentile per-packet one-way delay: 21.706 ms

Loss rate: 0.06%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-09-18 17:46:51

End at: 2019-09-18 17:47:21

Local clock offset: -0.545 ms

Remote clock offset: 0.017 ms

Below is generated by plot.py at 2019-09-18 18:44:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 609.58 Mbit/s

95th percentile per-packet one-way delay: 19.251 ms

Loss rate: 0.09%

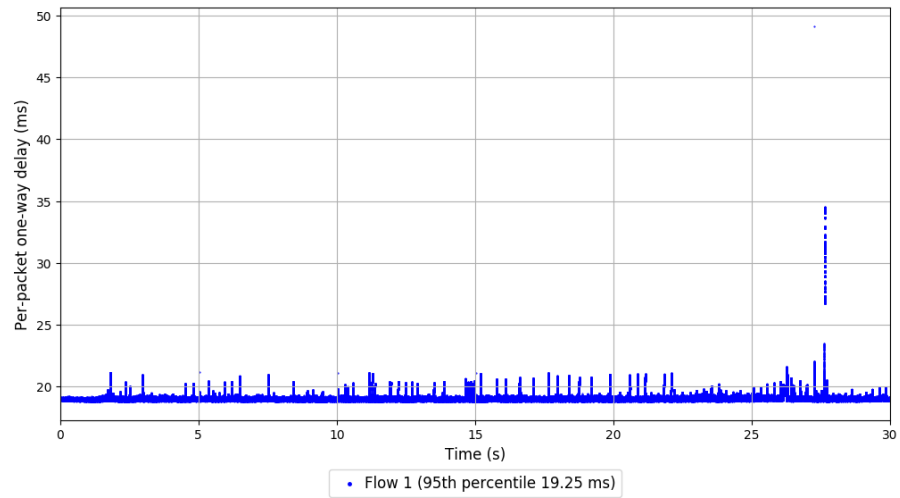
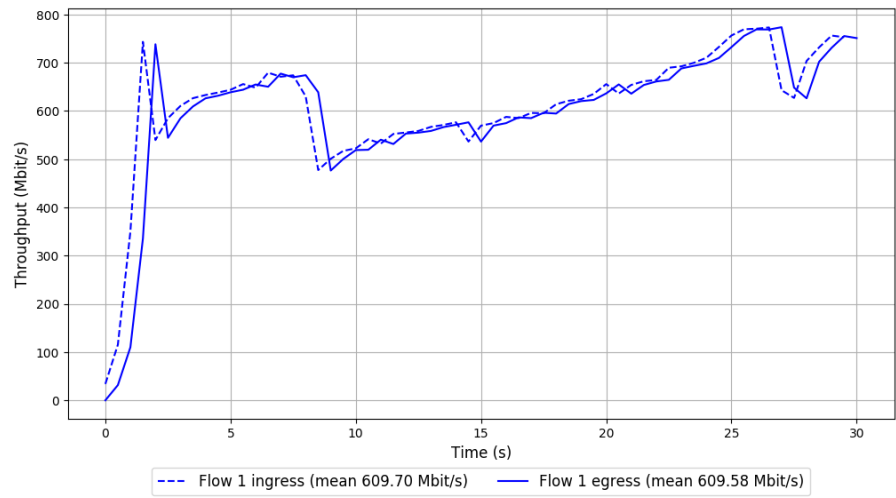
-- Flow 1:

Average throughput: 609.58 Mbit/s

95th percentile per-packet one-way delay: 19.251 ms

Loss rate: 0.09%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-09-18 15:32:57

End at: 2019-09-18 15:33:27

Local clock offset: -0.234 ms

Remote clock offset: -0.21 ms

Below is generated by plot.py at 2019-09-18 18:49:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 929.20 Mbit/s

95th percentile per-packet one-way delay: 10.025 ms

Loss rate: 0.01%

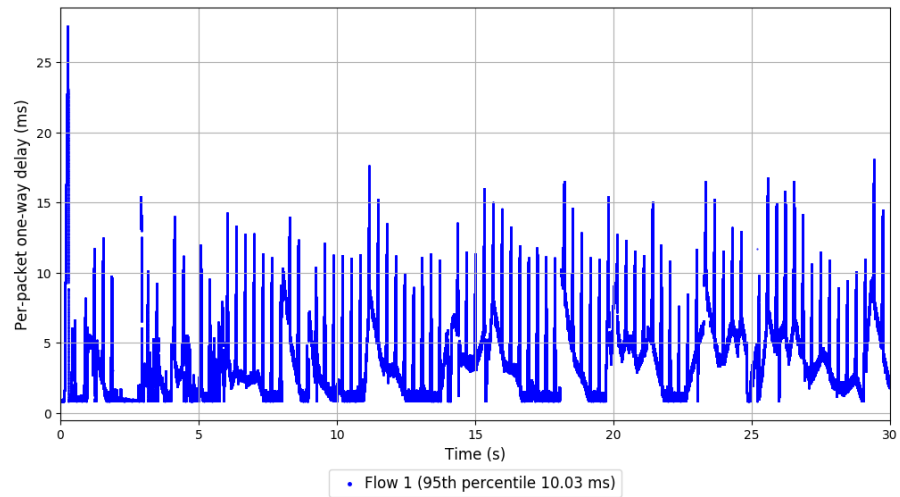
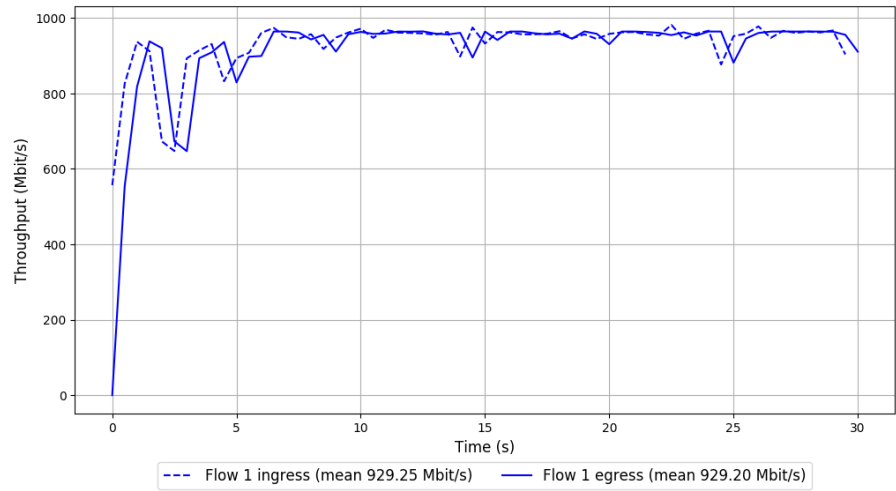
-- Flow 1:

Average throughput: 929.20 Mbit/s

95th percentile per-packet one-way delay: 10.025 ms

Loss rate: 0.01%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-09-18 16:07:17

End at: 2019-09-18 16:07:47

Local clock offset: 1.77 ms

Remote clock offset: 0.773 ms

Below is generated by plot.py at 2019-09-18 18:55:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 932.62 Mbit/s

95th percentile per-packet one-way delay: 9.026 ms

Loss rate: 0.01%

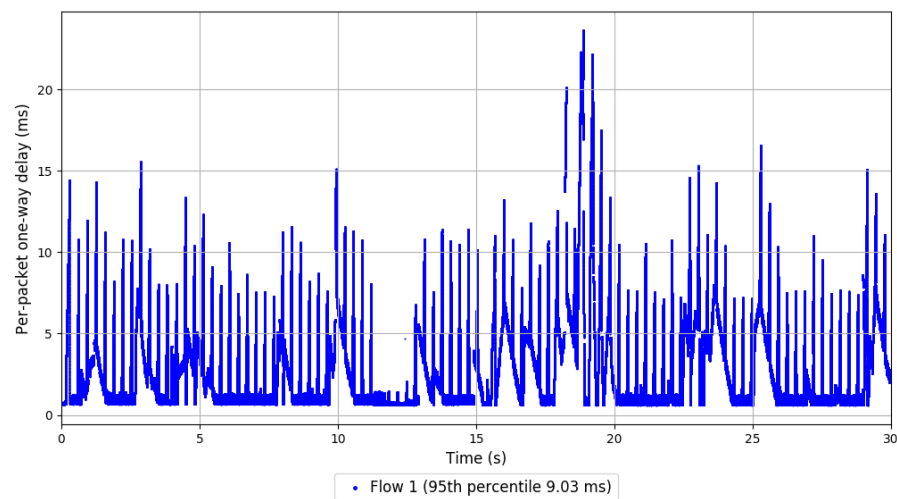
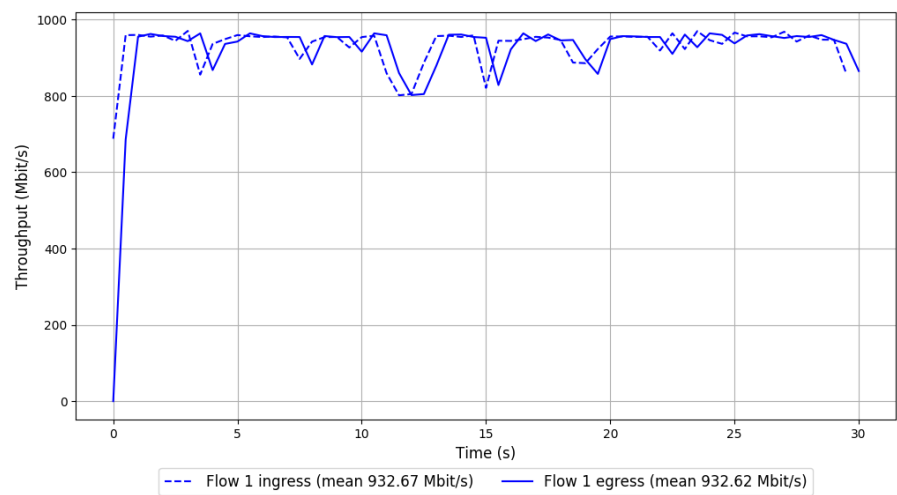
-- Flow 1:

Average throughput: 932.62 Mbit/s

95th percentile per-packet one-way delay: 9.026 ms

Loss rate: 0.01%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-09-18 16:41:22

End at: 2019-09-18 16:41:52

Local clock offset: 4.371 ms

Remote clock offset: 0.32 ms

Below is generated by plot.py at 2019-09-18 18:55:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 921.47 Mbit/s

95th percentile per-packet one-way delay: 10.226 ms

Loss rate: 0.05%

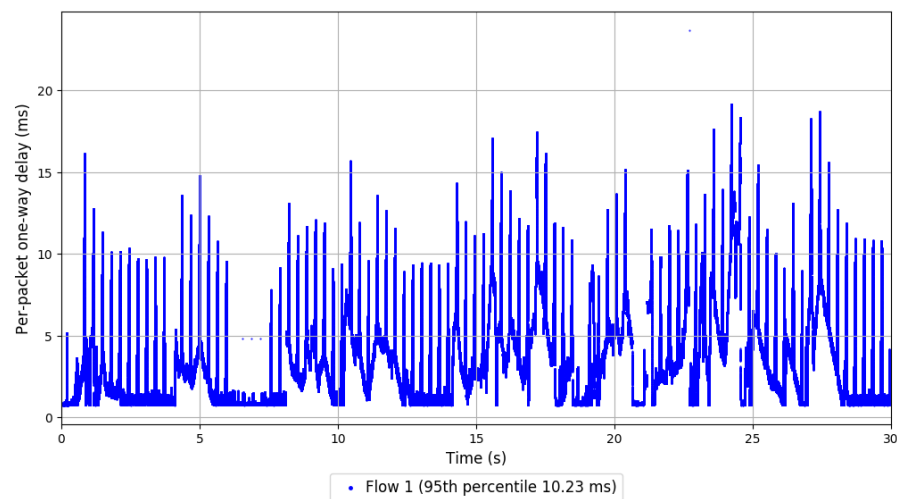
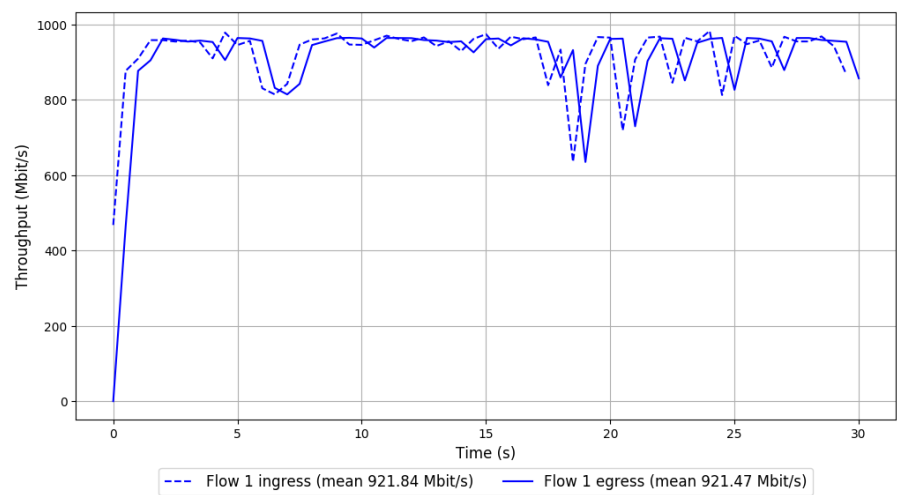
-- Flow 1:

Average throughput: 921.47 Mbit/s

95th percentile per-packet one-way delay: 10.226 ms

Loss rate: 0.05%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-09-18 17:15:30

End at: 2019-09-18 17:16:00

Local clock offset: 0.123 ms

Remote clock offset: 0.276 ms

Below is generated by plot.py at 2019-09-18 18:55:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 937.06 Mbit/s

95th percentile per-packet one-way delay: 28.712 ms

Loss rate: 0.08%

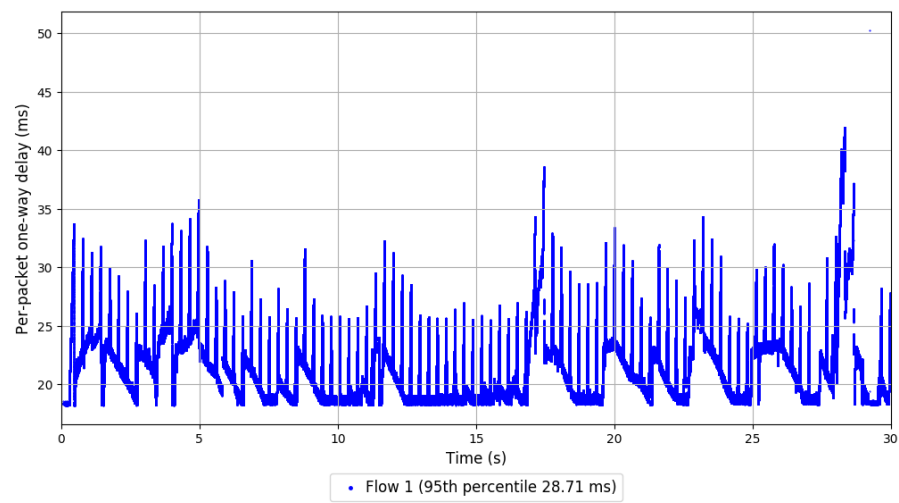
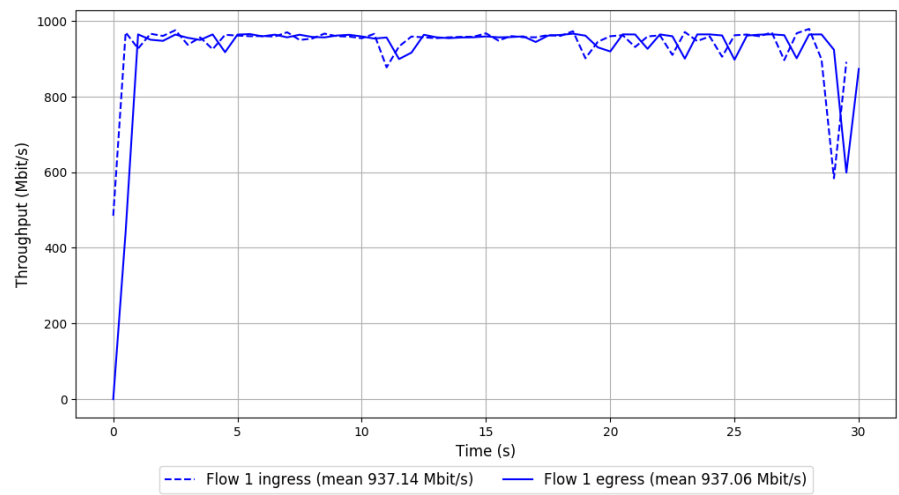
-- Flow 1:

Average throughput: 937.06 Mbit/s

95th percentile per-packet one-way delay: 28.712 ms

Loss rate: 0.08%

Run 4: Report of FillP — Data Link

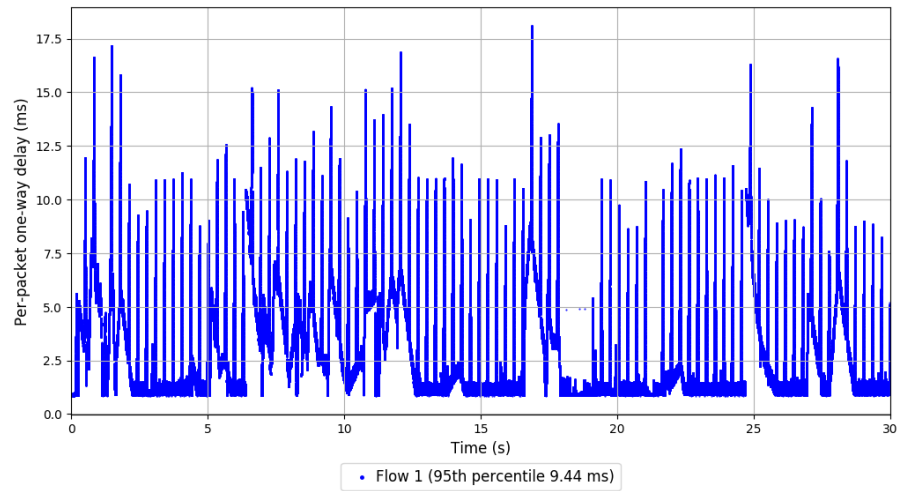
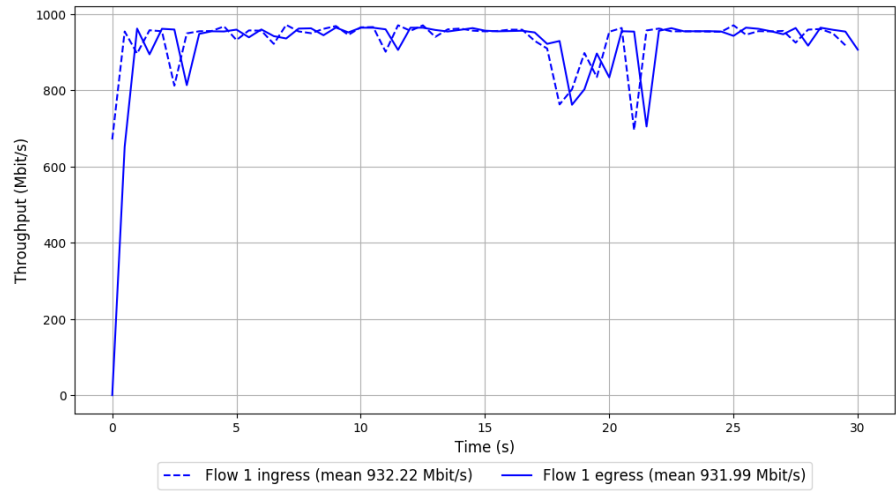


Run 5: Statistics of FillP

Start at: 2019-09-18 17:49:40
End at: 2019-09-18 17:50:10
Local clock offset: -0.598 ms
Remote clock offset: -0.035 ms

Below is generated by plot.py at 2019-09-18 18:56:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 931.99 Mbit/s
95th percentile per-packet one-way delay: 9.436 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 931.99 Mbit/s
95th percentile per-packet one-way delay: 9.436 ms
Loss rate: 0.03%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-09-18 15:50:04

End at: 2019-09-18 15:50:34

Local clock offset: -0.068 ms

Remote clock offset: 0.252 ms

Below is generated by plot.py at 2019-09-18 18:57:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 894.61 Mbit/s

95th percentile per-packet one-way delay: 5.870 ms

Loss rate: 0.00%

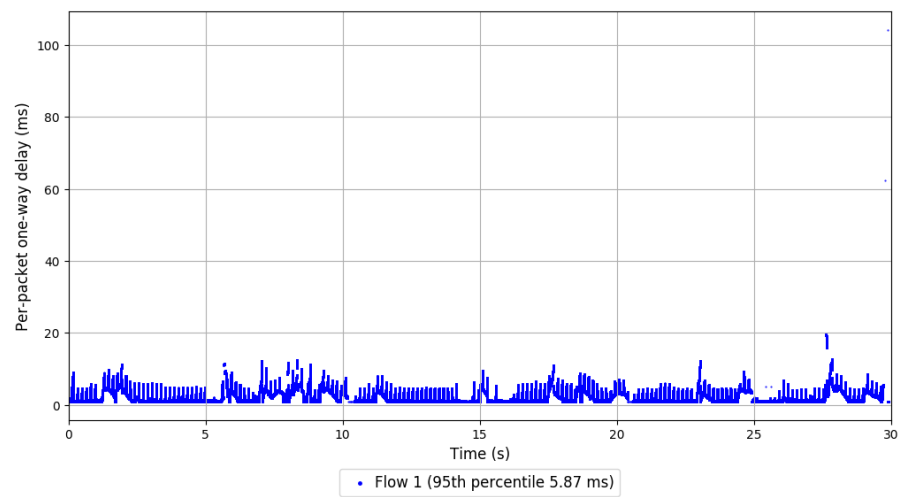
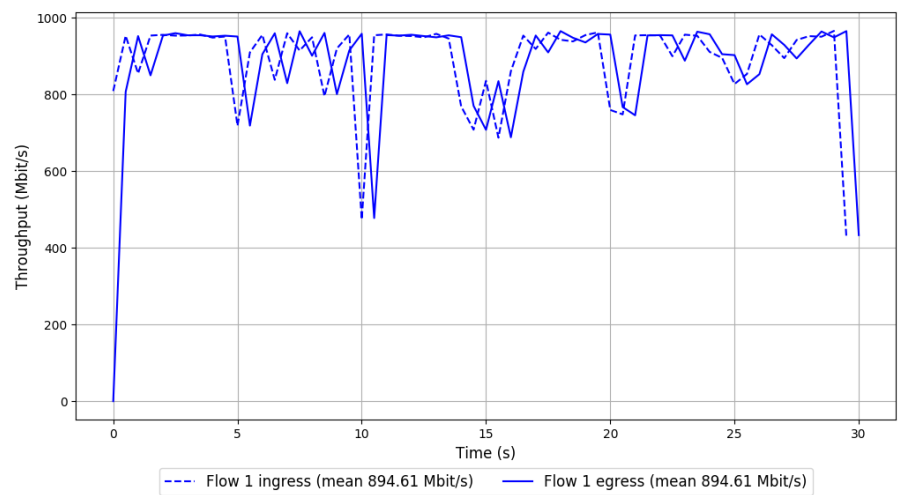
-- Flow 1:

Average throughput: 894.61 Mbit/s

95th percentile per-packet one-way delay: 5.870 ms

Loss rate: 0.00%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-09-18 16:24:02

End at: 2019-09-18 16:24:32

Local clock offset: 3.597 ms

Remote clock offset: 0.399 ms

Below is generated by plot.py at 2019-09-18 18:57:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 900.58 Mbit/s

95th percentile per-packet one-way delay: 23.025 ms

Loss rate: 0.05%

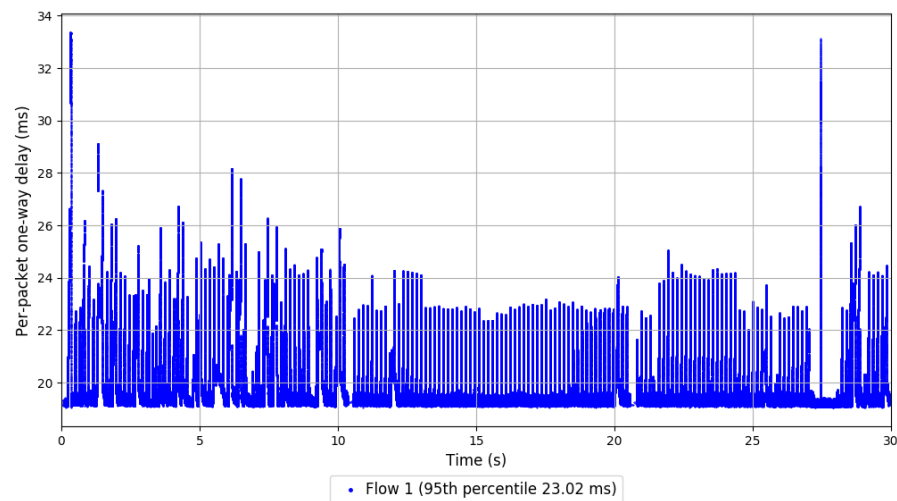
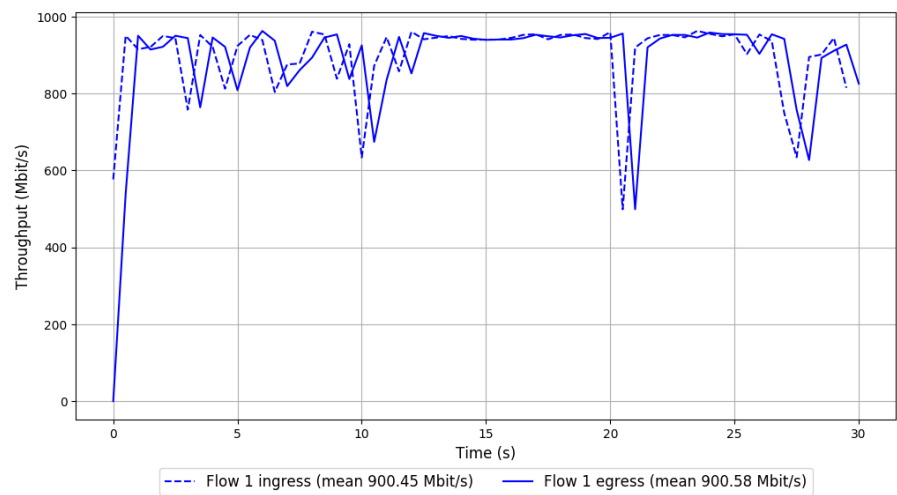
-- Flow 1:

Average throughput: 900.58 Mbit/s

95th percentile per-packet one-way delay: 23.025 ms

Loss rate: 0.05%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-09-18 16:58:21

End at: 2019-09-18 16:58:51

Local clock offset: 4.97 ms

Remote clock offset: 0.229 ms

Below is generated by plot.py at 2019-09-18 18:57:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 868.55 Mbit/s

95th percentile per-packet one-way delay: 23.648 ms

Loss rate: 0.00%

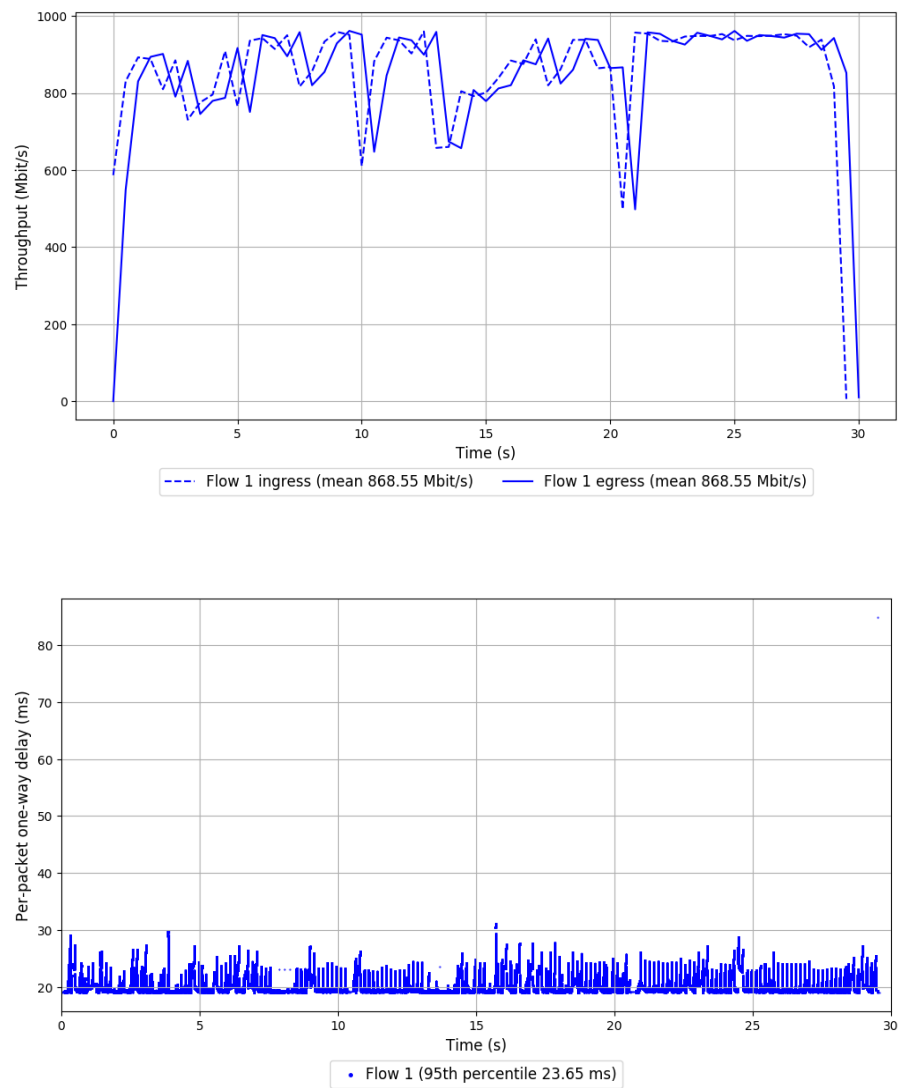
-- Flow 1:

Average throughput: 868.55 Mbit/s

95th percentile per-packet one-way delay: 23.648 ms

Loss rate: 0.00%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-09-18 17:32:42

End at: 2019-09-18 17:33:12

Local clock offset: -1.138 ms

Remote clock offset: 0.158 ms

Below is generated by plot.py at 2019-09-18 19:03:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 911.00 Mbit/s

95th percentile per-packet one-way delay: 23.490 ms

Loss rate: 0.07%

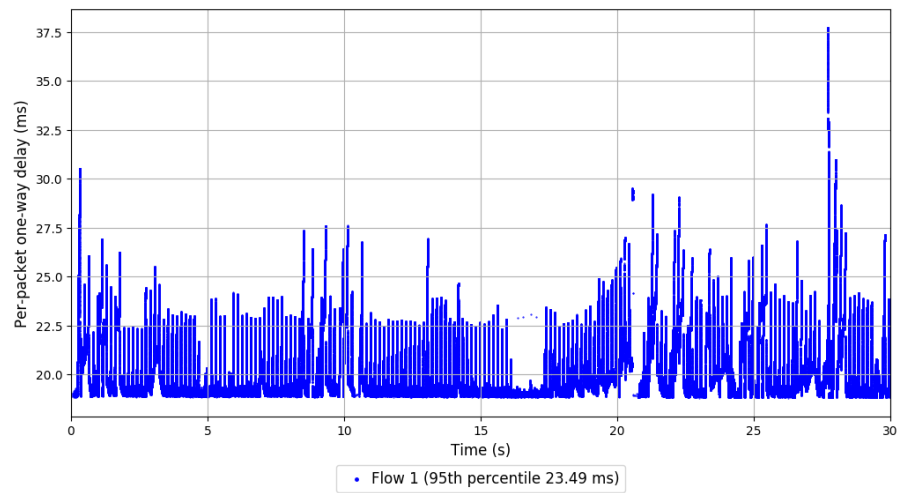
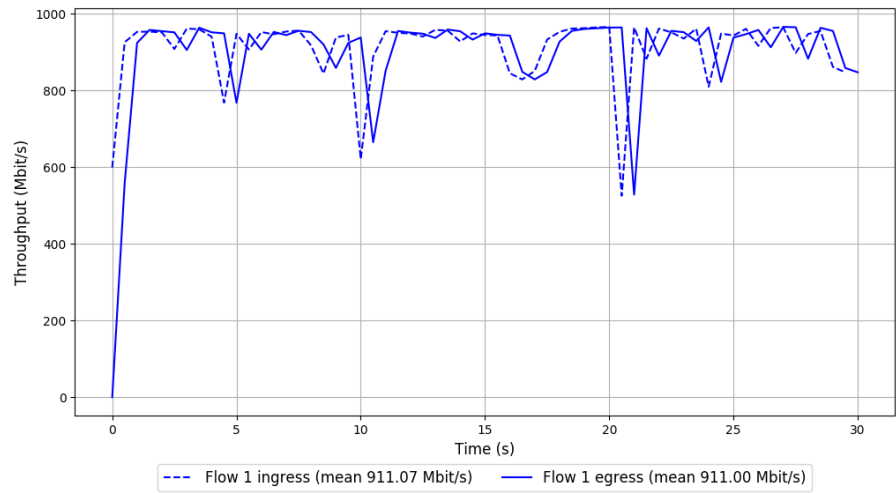
-- Flow 1:

Average throughput: 911.00 Mbit/s

95th percentile per-packet one-way delay: 23.490 ms

Loss rate: 0.07%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-09-18 18:06:38

End at: 2019-09-18 18:07:08

Local clock offset: -0.376 ms

Remote clock offset: 2.657 ms

Below is generated by plot.py at 2019-09-18 19:08:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 893.93 Mbit/s

95th percentile per-packet one-way delay: 23.874 ms

Loss rate: 0.09%

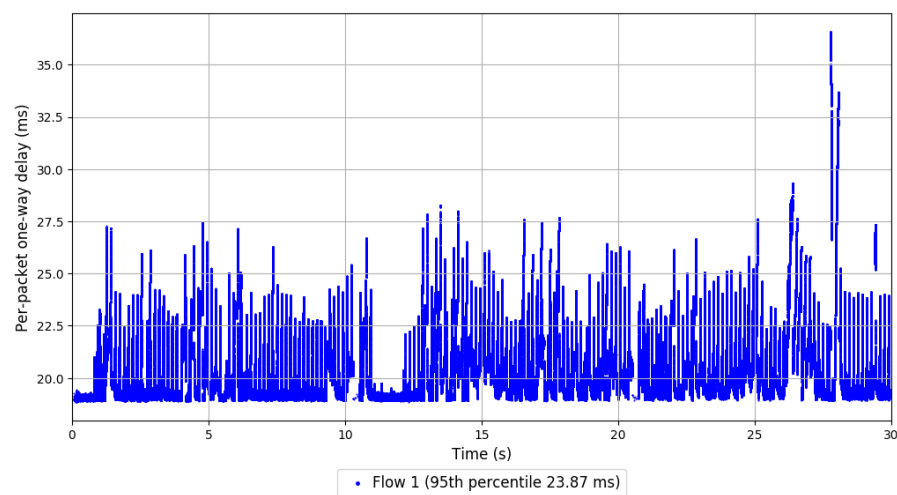
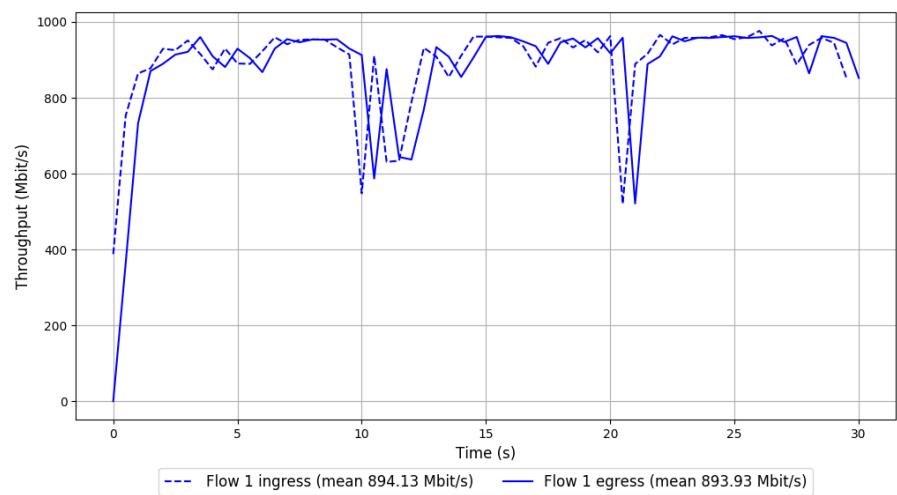
-- Flow 1:

Average throughput: 893.93 Mbit/s

95th percentile per-packet one-way delay: 23.874 ms

Loss rate: 0.09%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-09-18 15:51:41

End at: 2019-09-18 15:52:11

Local clock offset: -0.085 ms

Remote clock offset: 0.323 ms

Below is generated by plot.py at 2019-09-18 19:08:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.46 Mbit/s

95th percentile per-packet one-way delay: 0.983 ms

Loss rate: 0.01%

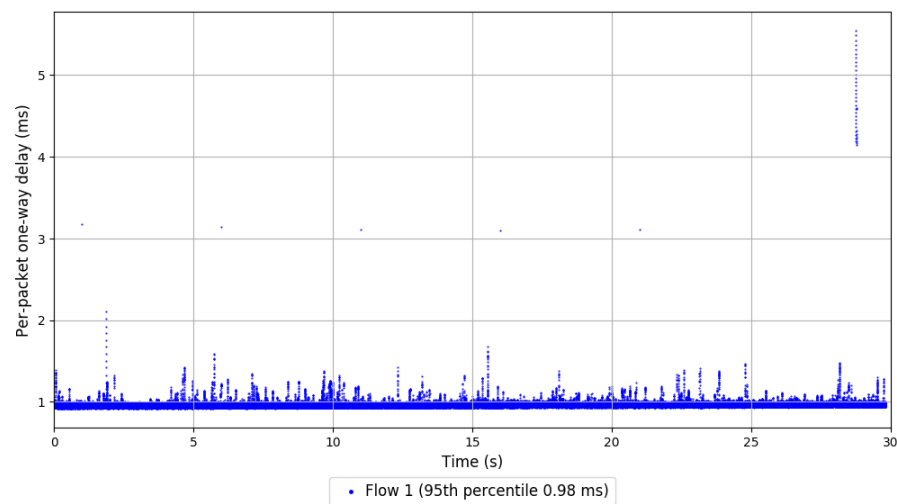
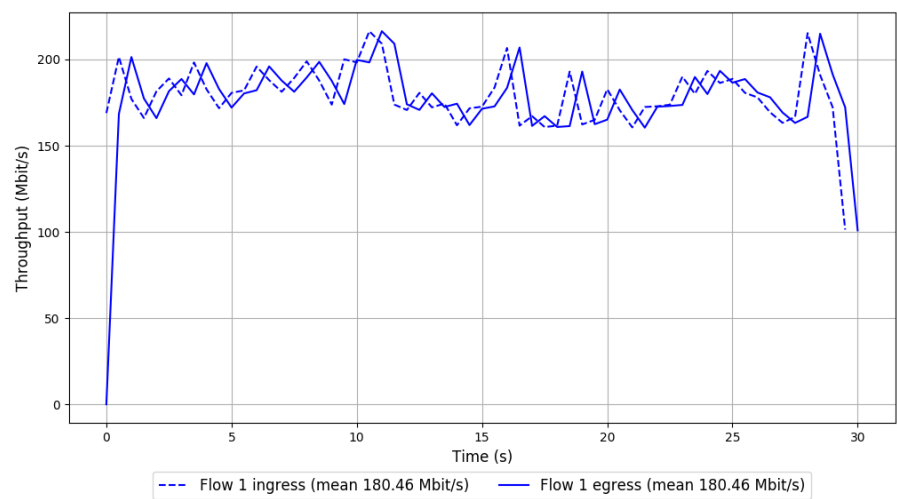
-- Flow 1:

Average throughput: 180.46 Mbit/s

95th percentile per-packet one-way delay: 0.983 ms

Loss rate: 0.01%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-09-18 16:25:39

End at: 2019-09-18 16:26:09

Local clock offset: 3.69 ms

Remote clock offset: 0.273 ms

Below is generated by plot.py at 2019-09-18 19:08:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.61 Mbit/s

95th percentile per-packet one-way delay: 19.421 ms

Loss rate: 0.06%

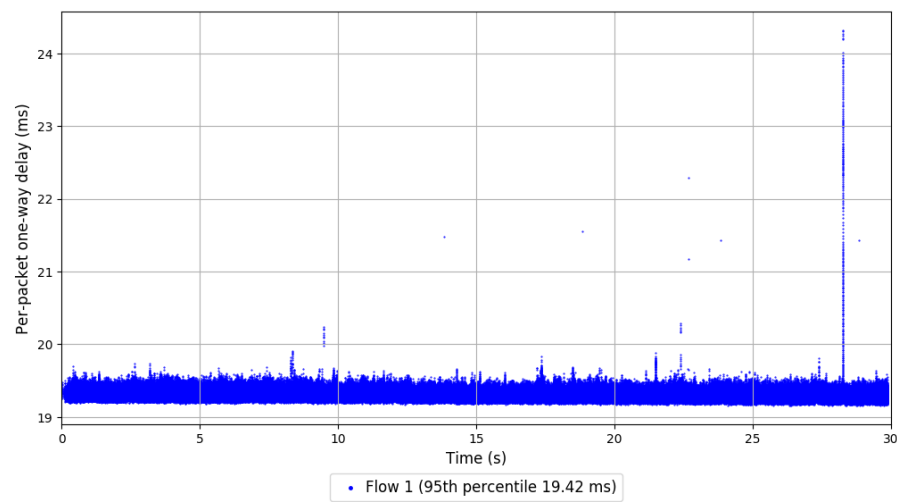
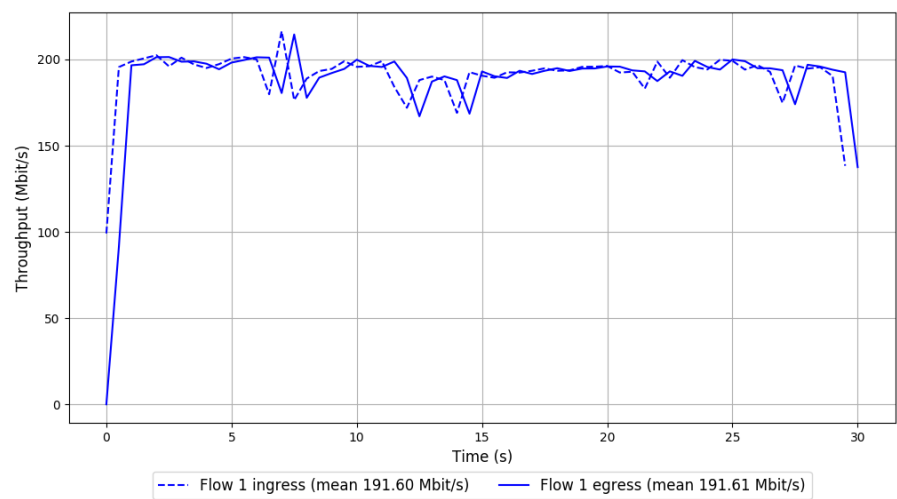
-- Flow 1:

Average throughput: 191.61 Mbit/s

95th percentile per-packet one-way delay: 19.421 ms

Loss rate: 0.06%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-09-18 16:59:57

End at: 2019-09-18 17:00:27

Local clock offset: 5.026 ms

Remote clock offset: 0.251 ms

Below is generated by plot.py at 2019-09-18 19:08:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.41 Mbit/s

95th percentile per-packet one-way delay: 1.153 ms

Loss rate: 0.01%

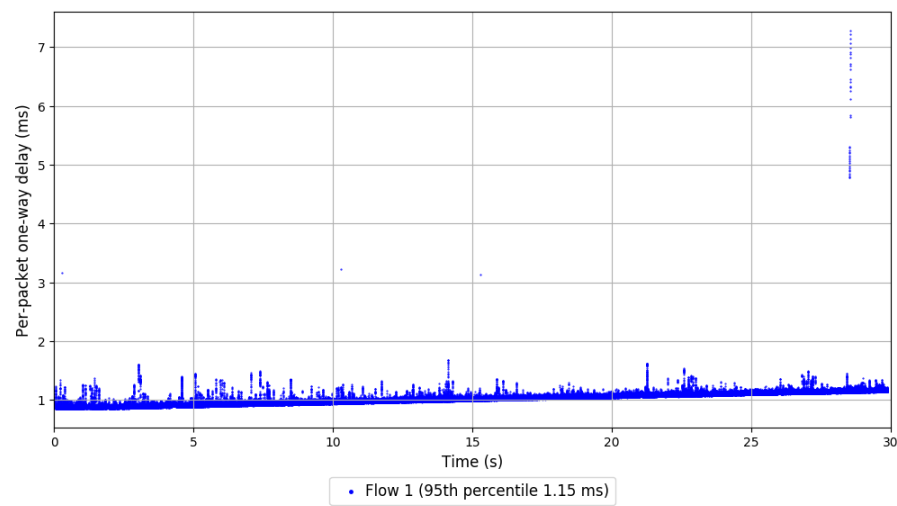
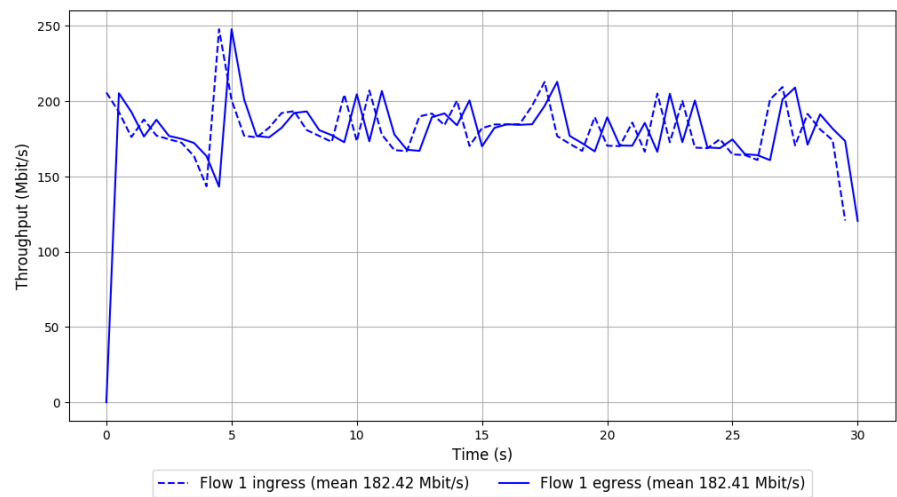
-- Flow 1:

Average throughput: 182.41 Mbit/s

95th percentile per-packet one-way delay: 1.153 ms

Loss rate: 0.01%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-09-18 17:34:20

End at: 2019-09-18 17:34:50

Local clock offset: -0.929 ms

Remote clock offset: 0.139 ms

Below is generated by plot.py at 2019-09-18 19:08:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.58 Mbit/s

95th percentile per-packet one-way delay: 19.863 ms

Loss rate: 0.08%

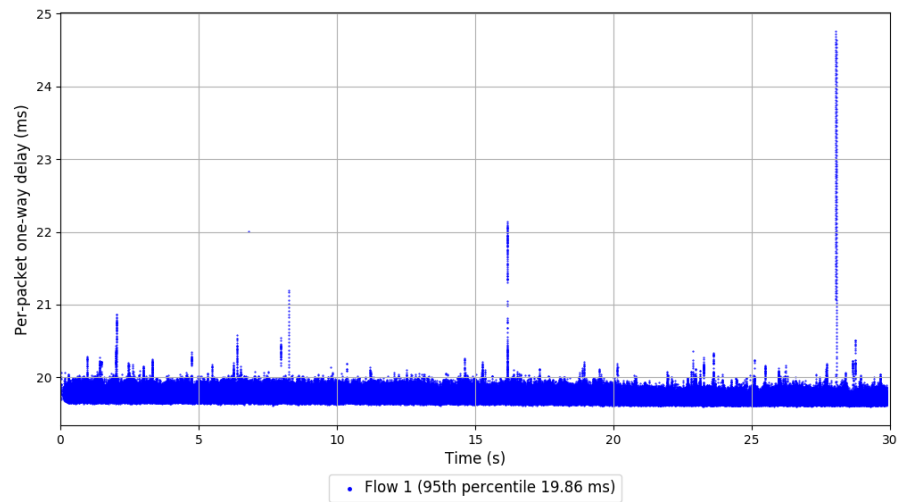
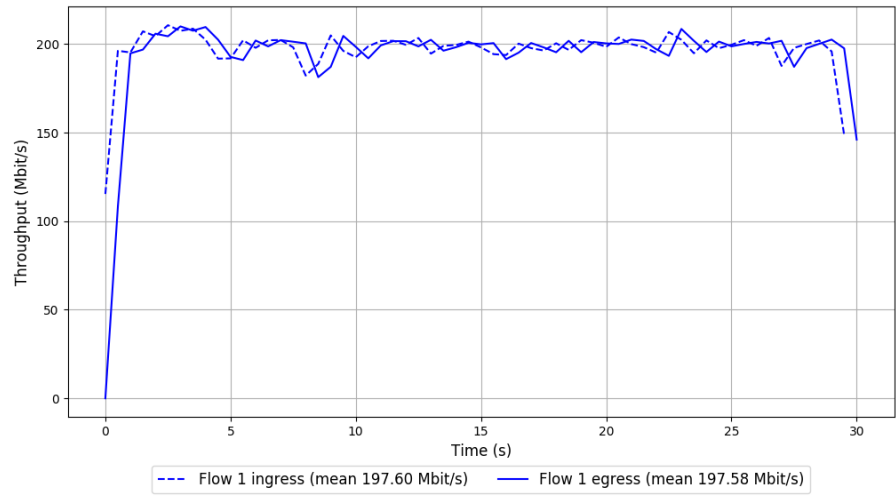
-- Flow 1:

Average throughput: 197.58 Mbit/s

95th percentile per-packet one-way delay: 19.863 ms

Loss rate: 0.08%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-09-18 18:08:15

End at: 2019-09-18 18:08:45

Local clock offset: -0.316 ms

Remote clock offset: 2.867 ms

Below is generated by plot.py at 2019-09-18 19:08:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.64 Mbit/s

95th percentile per-packet one-way delay: 19.125 ms

Loss rate: 0.07%

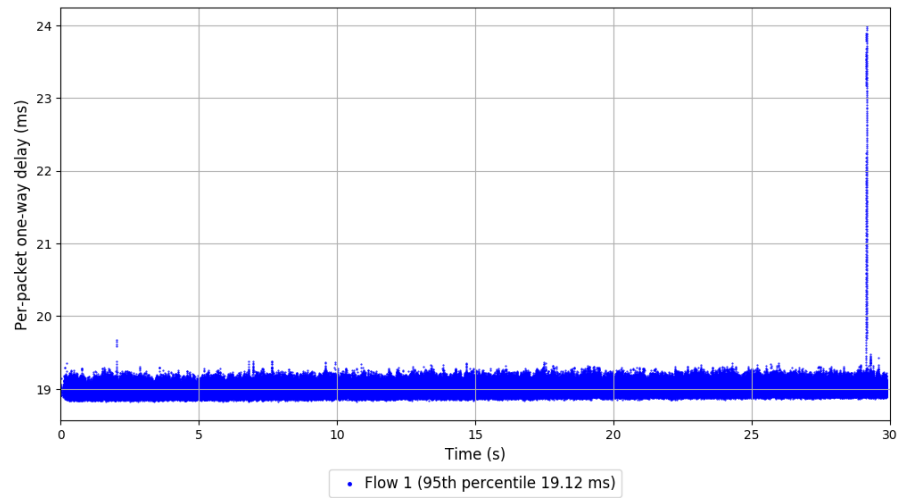
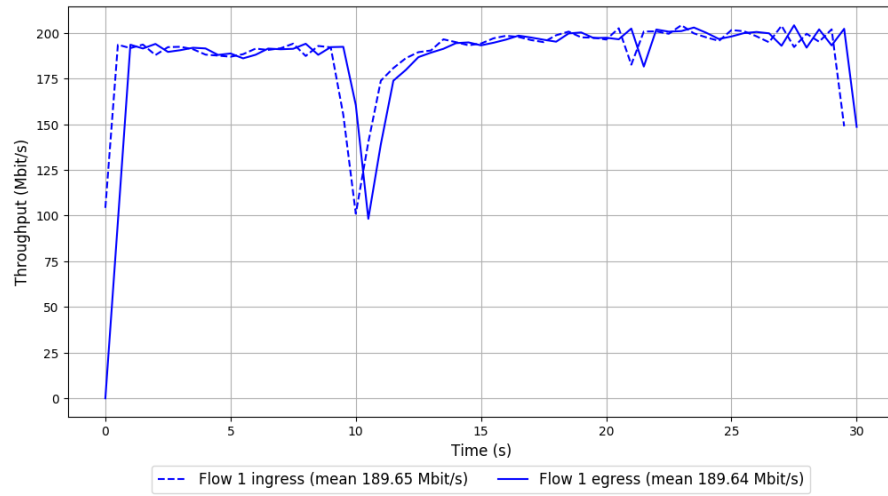
-- Flow 1:

Average throughput: 189.64 Mbit/s

95th percentile per-packet one-way delay: 19.125 ms

Loss rate: 0.07%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-09-18 15:40:18

End at: 2019-09-18 15:40:48

Local clock offset: -0.071 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2019-09-18 19:08:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 332.37 Mbit/s

95th percentile per-packet one-way delay: 0.980 ms

Loss rate: 0.00%

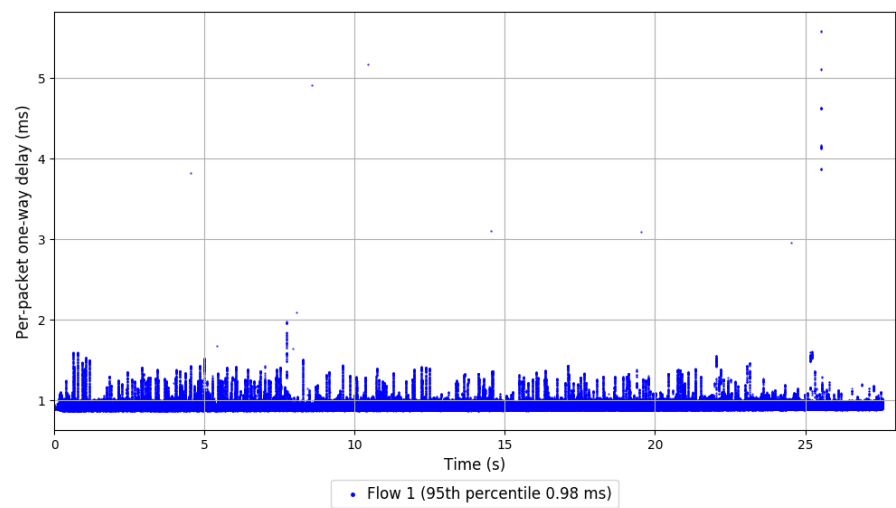
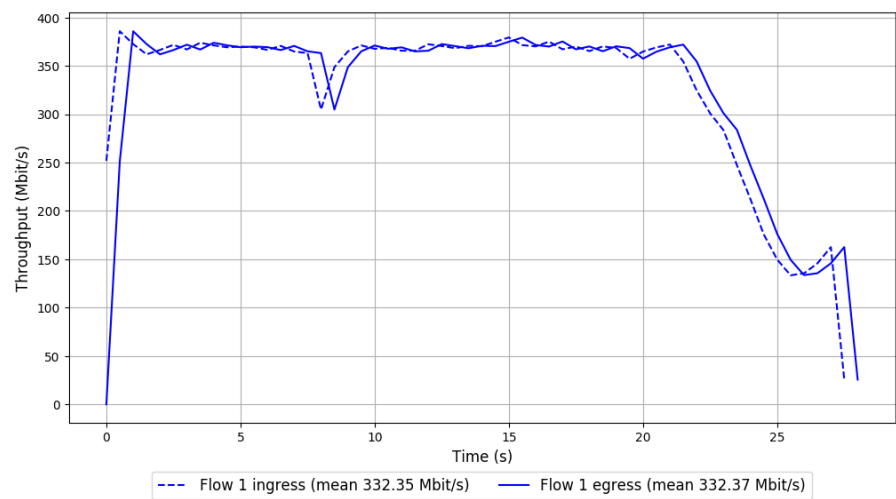
-- Flow 1:

Average throughput: 332.37 Mbit/s

95th percentile per-packet one-way delay: 0.980 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-09-18 16:14:22

End at: 2019-09-18 16:14:52

Local clock offset: 2.849 ms

Remote clock offset: 0.643 ms

Below is generated by plot.py at 2019-09-18 19:08:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 489.92 Mbit/s

95th percentile per-packet one-way delay: 18.674 ms

Loss rate: 0.07%

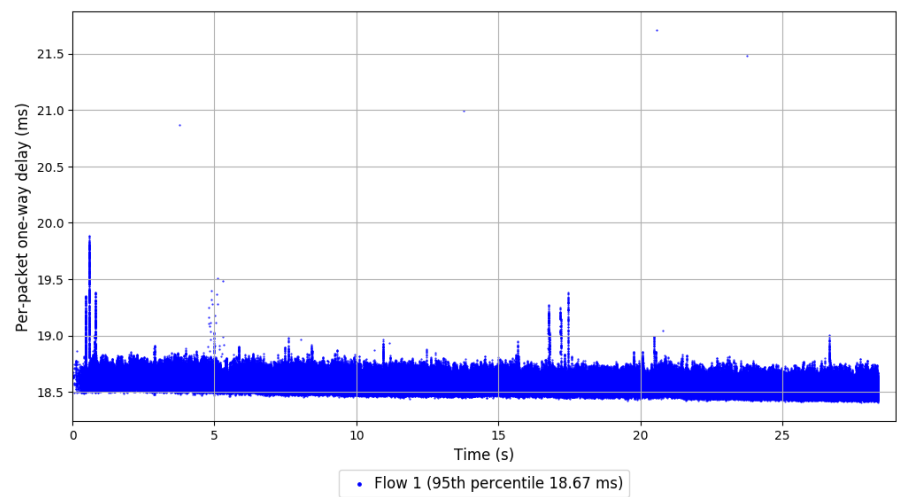
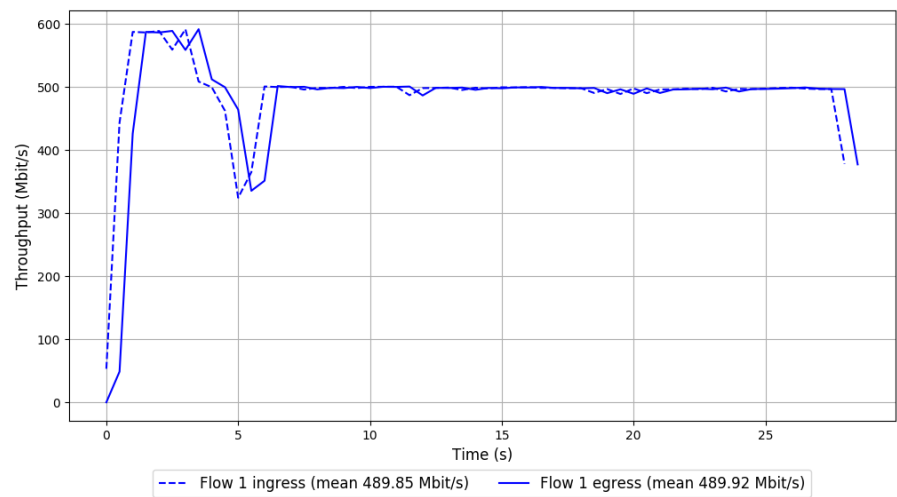
-- Flow 1:

Average throughput: 489.92 Mbit/s

95th percentile per-packet one-way delay: 18.674 ms

Loss rate: 0.07%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-09-18 16:48:43

End at: 2019-09-18 16:49:13

Local clock offset: 4.65 ms

Remote clock offset: 0.213 ms

Below is generated by plot.py at 2019-09-18 19:08:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 265.26 Mbit/s

95th percentile per-packet one-way delay: 0.996 ms

Loss rate: 0.01%

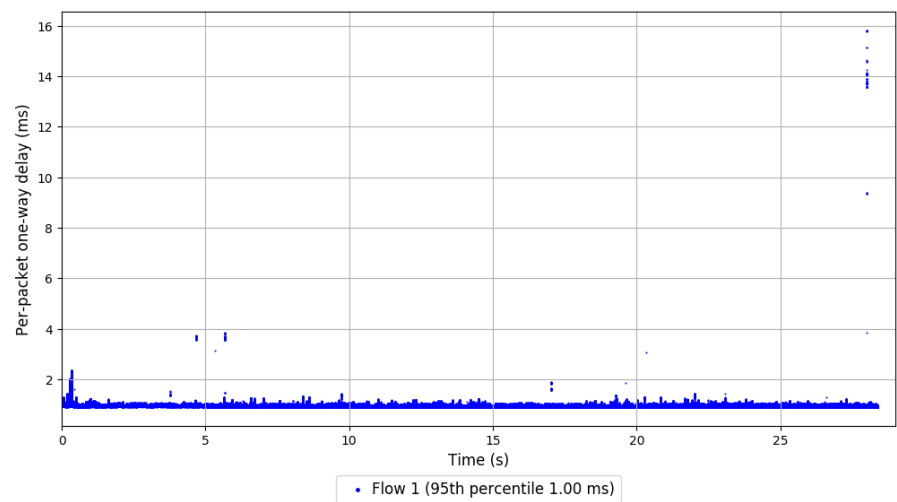
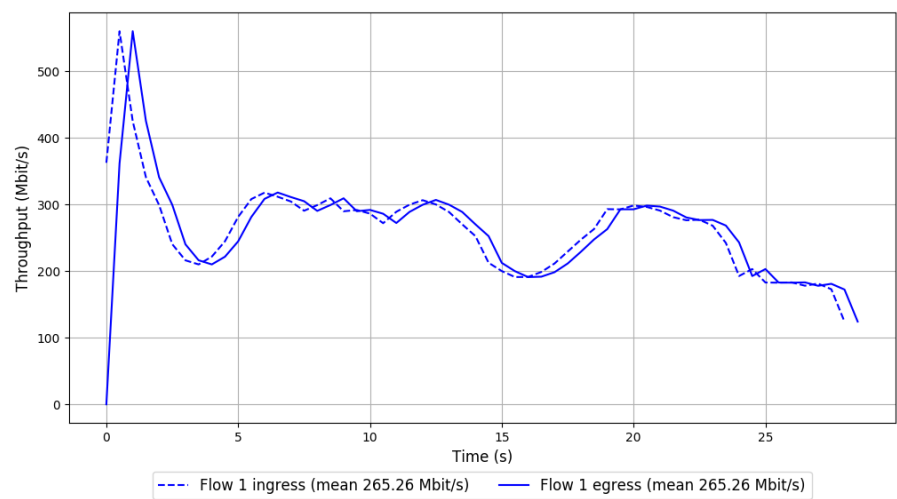
-- Flow 1:

Average throughput: 265.26 Mbit/s

95th percentile per-packet one-way delay: 0.996 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-09-18 17:23:01

End at: 2019-09-18 17:23:32

Local clock offset: -0.727 ms

Remote clock offset: 0.246 ms

Below is generated by plot.py at 2019-09-18 19:08:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 301.72 Mbit/s

95th percentile per-packet one-way delay: 1.112 ms

Loss rate: 0.01%

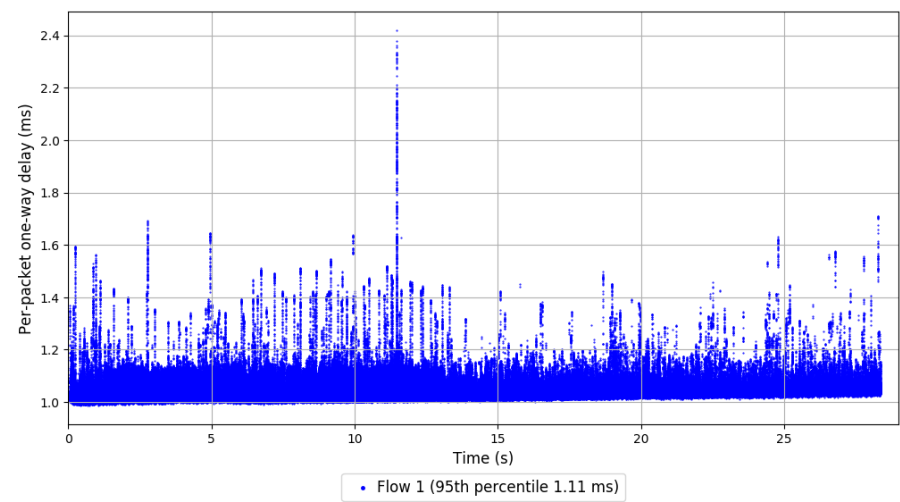
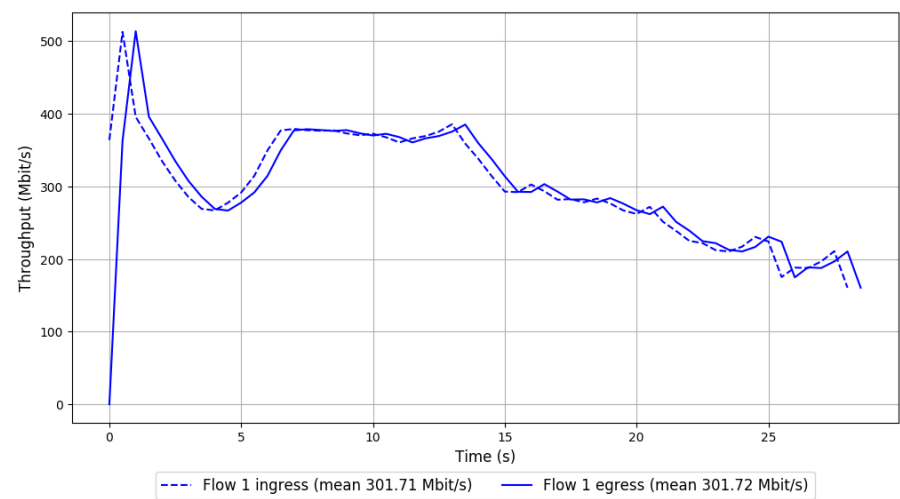
-- Flow 1:

Average throughput: 301.72 Mbit/s

95th percentile per-packet one-way delay: 1.112 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-09-18 17:56:43

End at: 2019-09-18 17:57:13

Local clock offset: -0.75 ms

Remote clock offset: 0.634 ms

Below is generated by plot.py at 2019-09-18 19:08:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 475.46 Mbit/s

95th percentile per-packet one-way delay: 19.696 ms

Loss rate: 0.07%

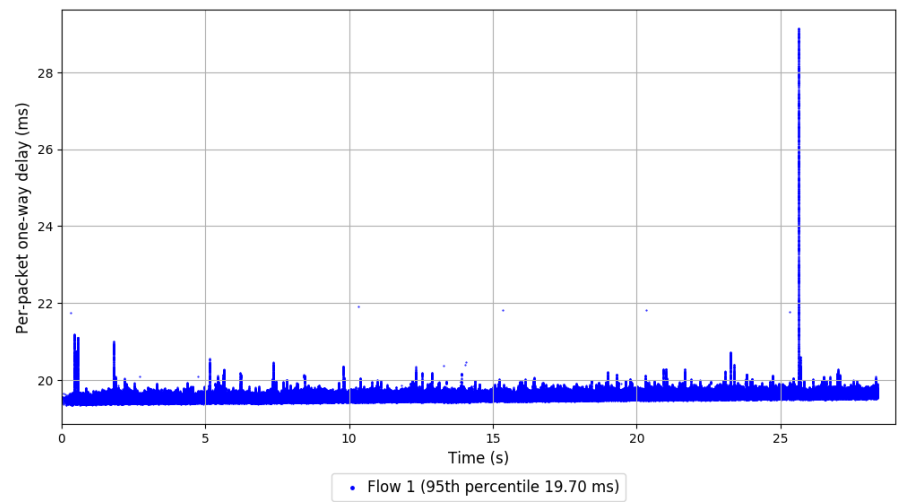
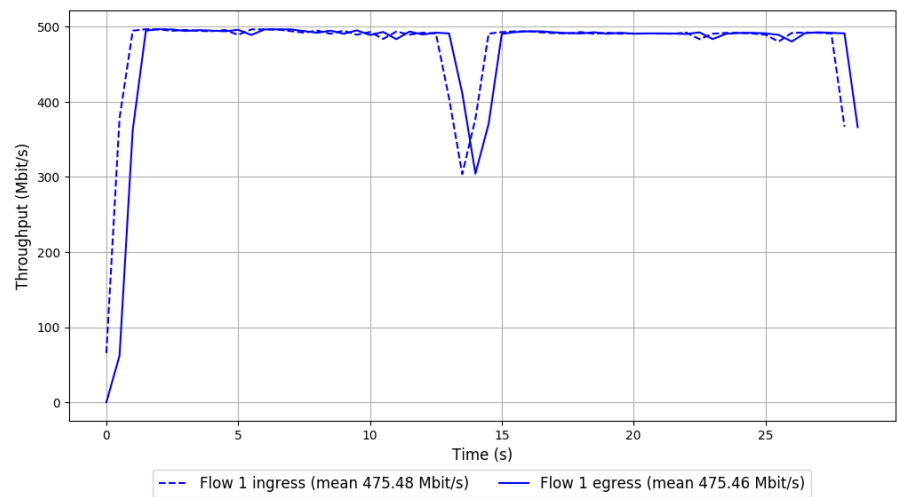
-- Flow 1:

Average throughput: 475.46 Mbit/s

95th percentile per-packet one-way delay: 19.696 ms

Loss rate: 0.07%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-09-18 15:54:30

End at: 2019-09-18 15:55:00

Local clock offset: -0.081 ms

Remote clock offset: 0.445 ms

Below is generated by plot.py at 2019-09-18 19:08:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 476.25 Mbit/s

95th percentile per-packet one-way delay: 19.510 ms

Loss rate: 0.08%

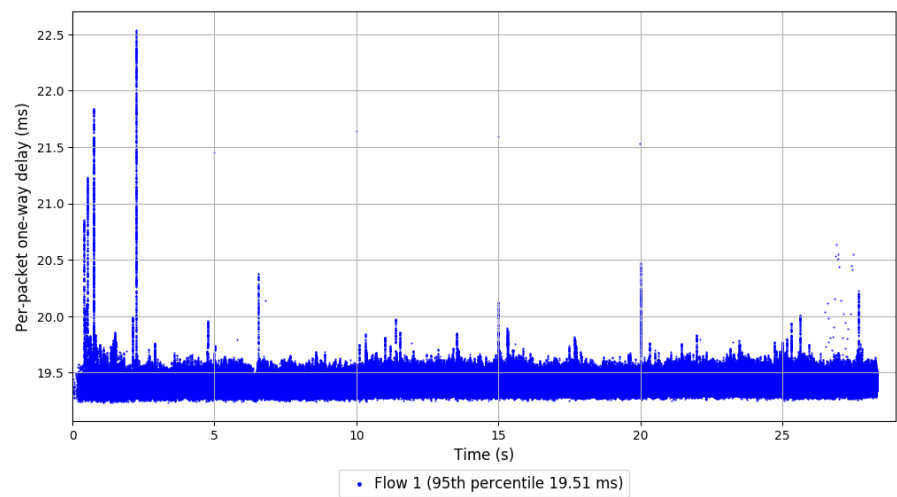
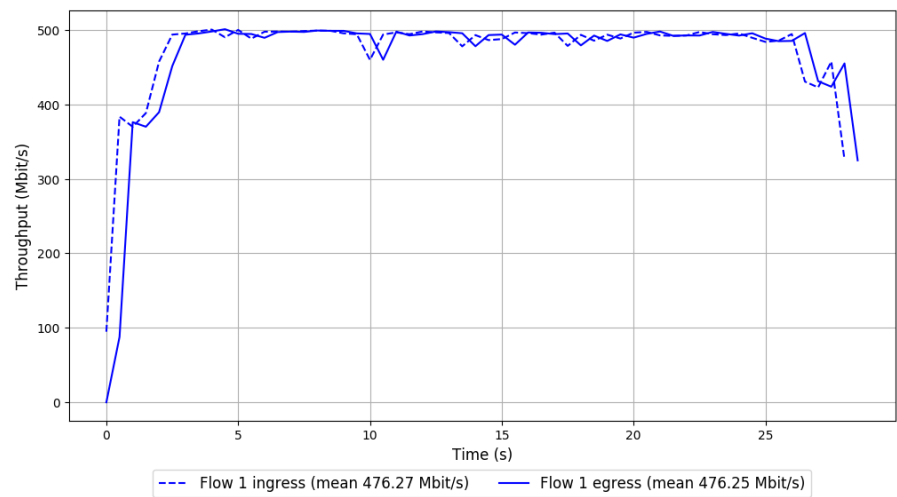
-- Flow 1:

Average throughput: 476.25 Mbit/s

95th percentile per-packet one-way delay: 19.510 ms

Loss rate: 0.08%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-09-18 16:28:29

End at: 2019-09-18 16:28:59

Local clock offset: 3.797 ms

Remote clock offset: 0.31 ms

Below is generated by plot.py at 2019-09-18 19:08:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 324.81 Mbit/s

95th percentile per-packet one-way delay: 18.260 ms

Loss rate: 0.06%

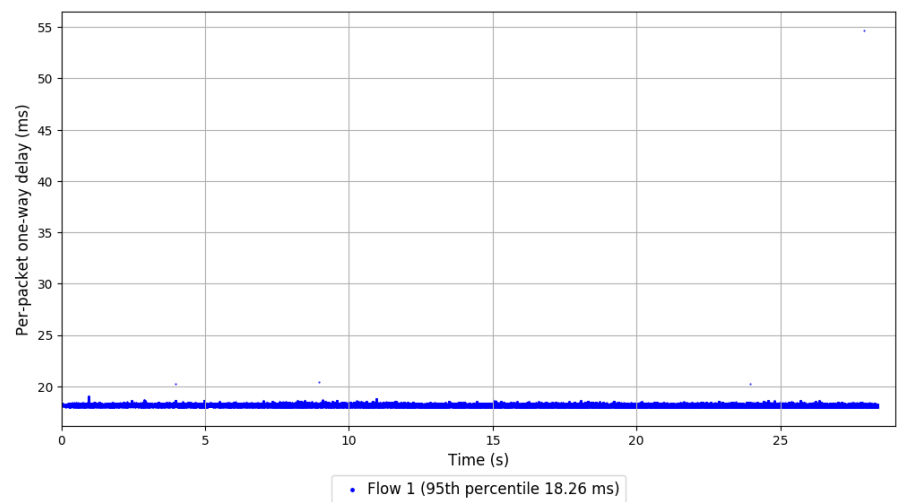
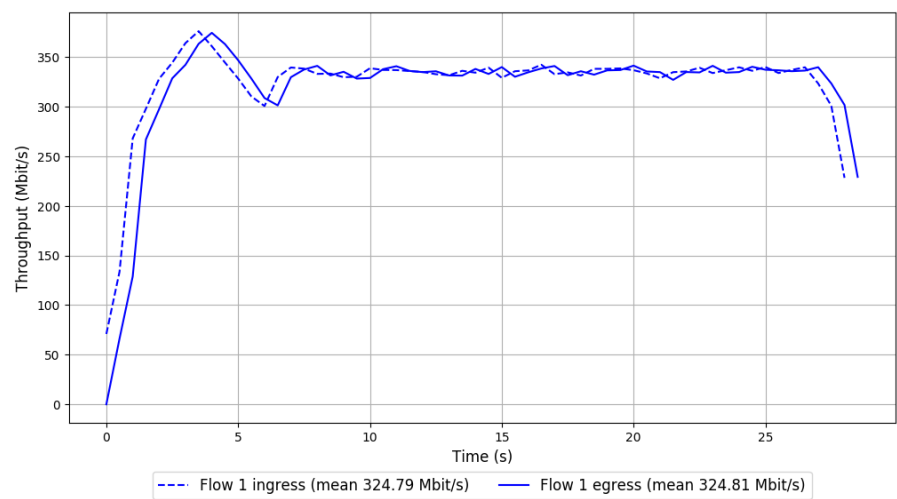
-- Flow 1:

Average throughput: 324.81 Mbit/s

95th percentile per-packet one-way delay: 18.260 ms

Loss rate: 0.06%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-09-18 17:02:47

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

Local clock offset: 3.871 ms

Remote clock offset: 0.352 ms

Below is generated by plot.py at 2019-09-18 19:08:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 233.30 Mbit/s

95th percentile per-packet one-way delay: 1.401 ms

Loss rate: 0.00%

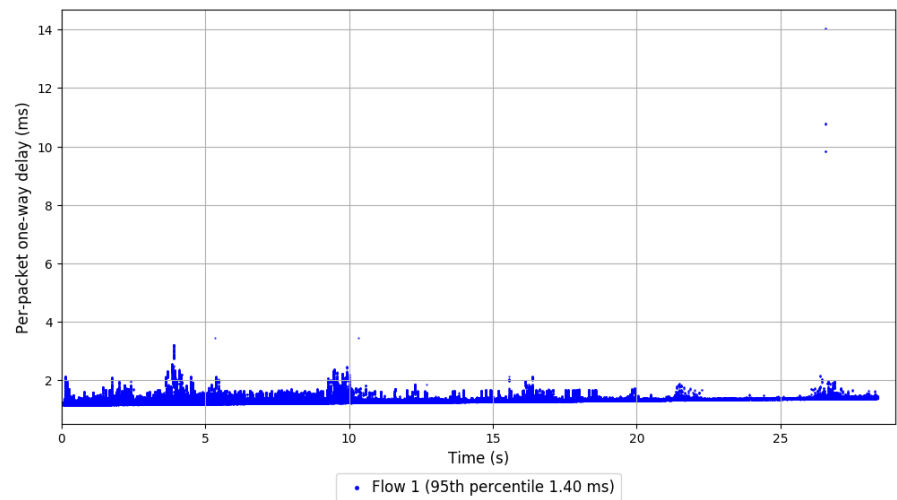
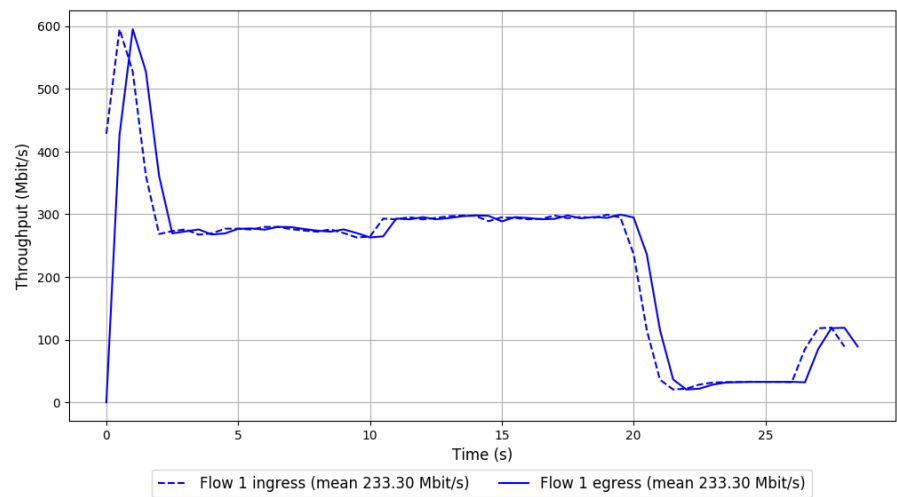
-- Flow 1:

Average throughput: 233.30 Mbit/s

95th percentile per-packet one-way delay: 1.401 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-09-18 17:37:11

End at: 2019-09-18 17:37:41

Local clock offset: -0.725 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2019-09-18 19:08:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 428.21 Mbit/s

95th percentile per-packet one-way delay: 19.649 ms

Loss rate: 0.08%

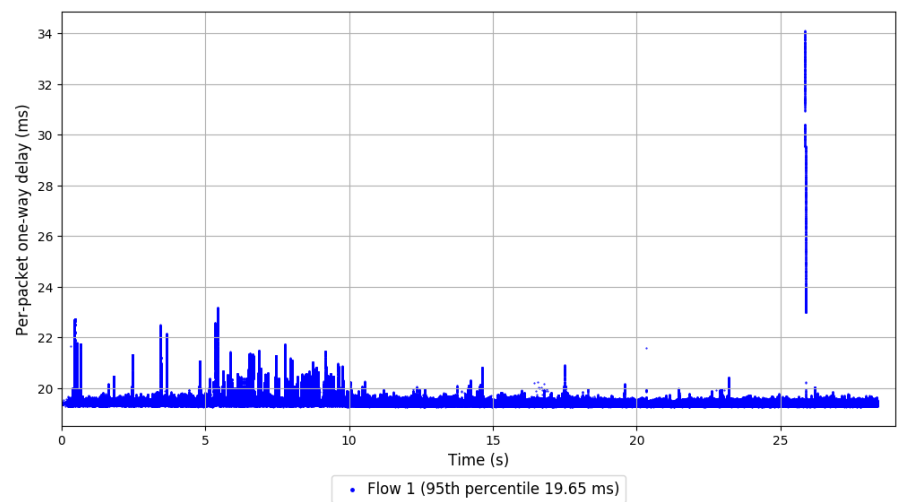
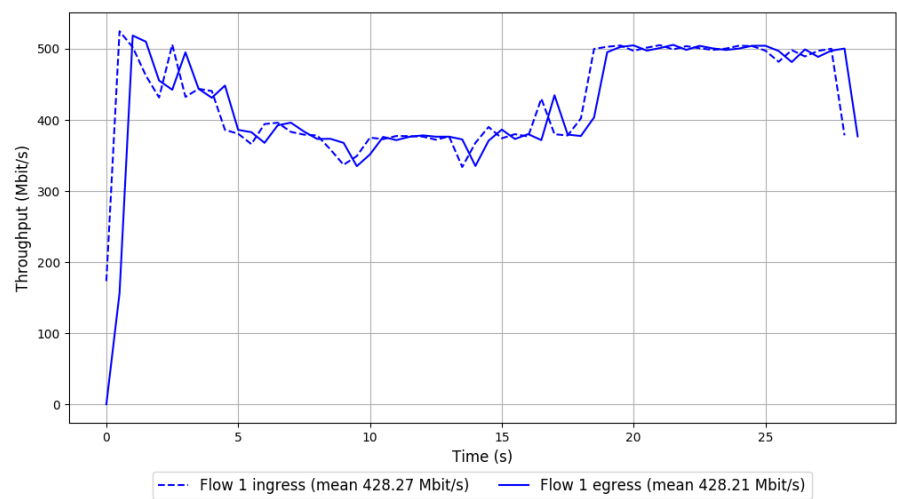
-- Flow 1:

Average throughput: 428.21 Mbit/s

95th percentile per-packet one-way delay: 19.649 ms

Loss rate: 0.08%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-09-18 18:10:55

End at: 2019-09-18 18:11:25

Local clock offset: -0.269 ms

Remote clock offset: 3.133 ms

Below is generated by plot.py at 2019-09-18 19:08:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 378.34 Mbit/s

95th percentile per-packet one-way delay: 19.108 ms

Loss rate: 0.09%

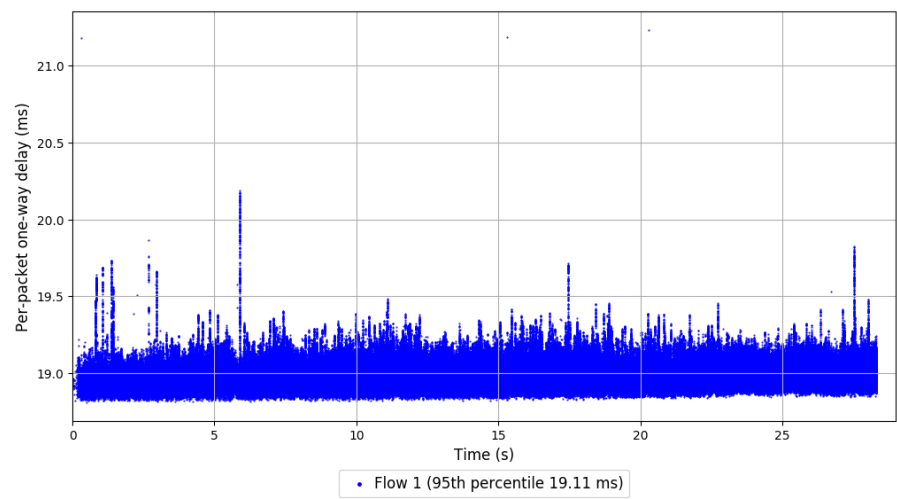
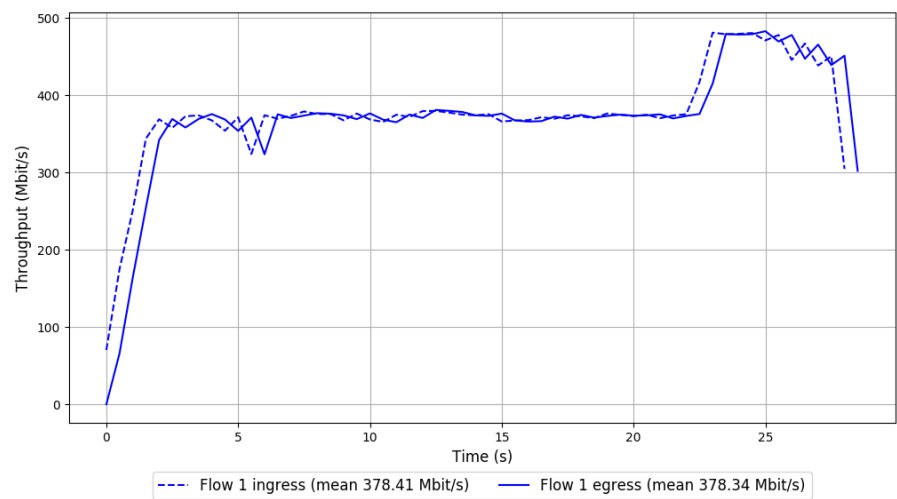
-- Flow 1:

Average throughput: 378.34 Mbit/s

95th percentile per-packet one-way delay: 19.108 ms

Loss rate: 0.09%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-09-18 15:43:05

End at: 2019-09-18 15:43:35

Local clock offset: -0.078 ms

Remote clock offset: 0.063 ms

Below is generated by plot.py at 2019-09-18 19:09:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 471.78 Mbit/s

95th percentile per-packet one-way delay: 19.952 ms

Loss rate: 0.08%

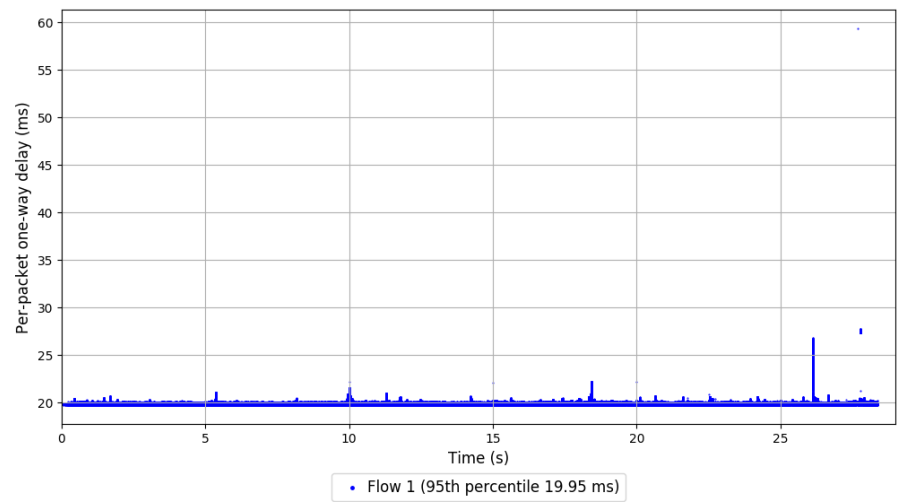
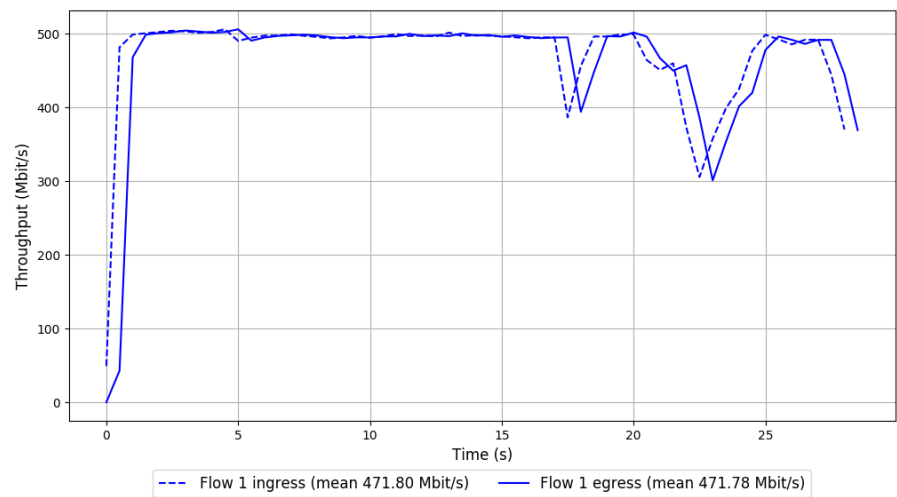
-- Flow 1:

Average throughput: 471.78 Mbit/s

95th percentile per-packet one-way delay: 19.952 ms

Loss rate: 0.08%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-09-18 16:17:19

End at: 2019-09-18 16:17:49

Local clock offset: 3.107 ms

Remote clock offset: 0.589 ms

Below is generated by plot.py at 2019-09-18 19:09:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.66 Mbit/s

95th percentile per-packet one-way delay: 0.807 ms

Loss rate: 0.00%

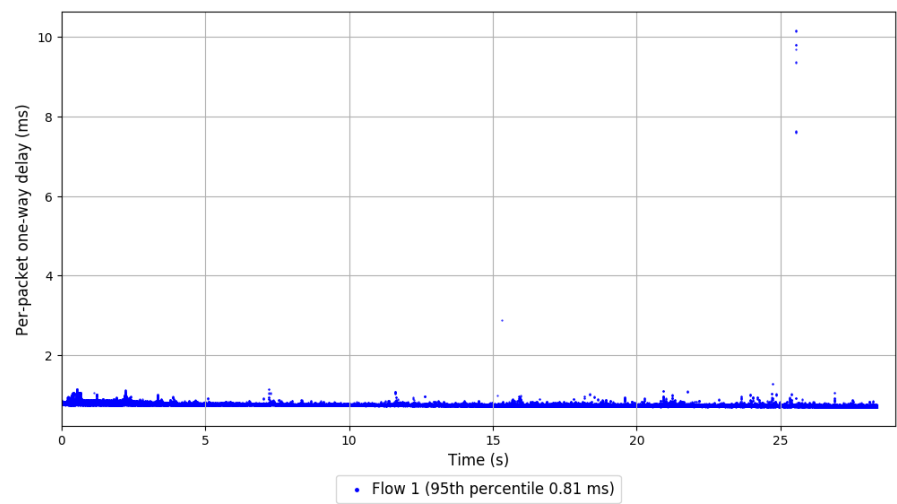
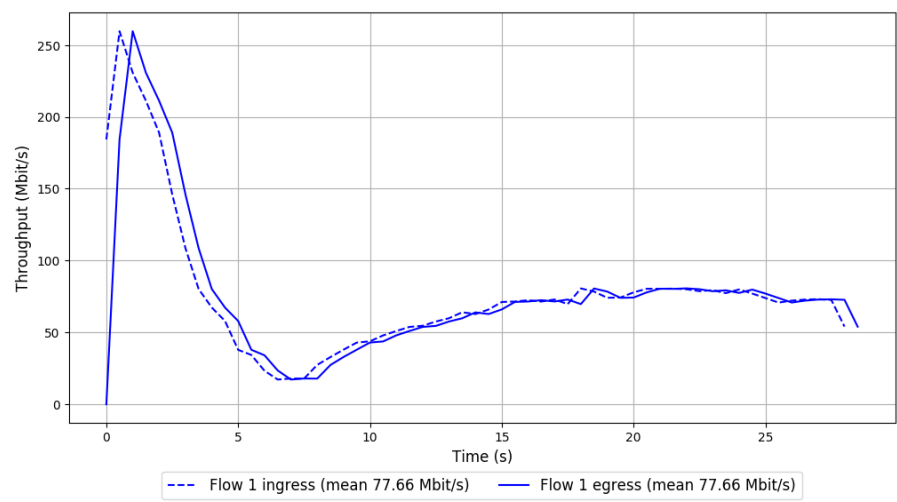
-- Flow 1:

Average throughput: 77.66 Mbit/s

95th percentile per-packet one-way delay: 0.807 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-09-18 16:51:33

End at: 2019-09-18 16:52:03

Local clock offset: 4.739 ms

Remote clock offset: 0.225 ms

Below is generated by plot.py at 2019-09-18 19:10:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 459.74 Mbit/s

95th percentile per-packet one-way delay: 19.072 ms

Loss rate: 0.08%

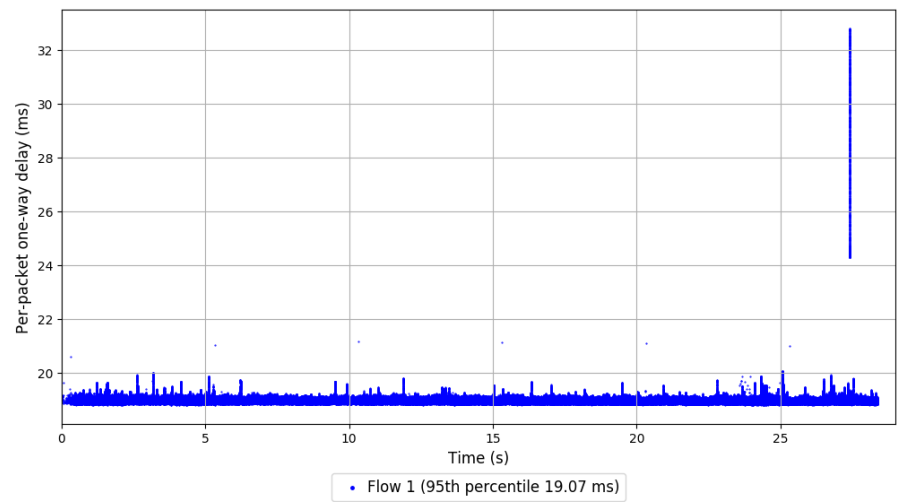
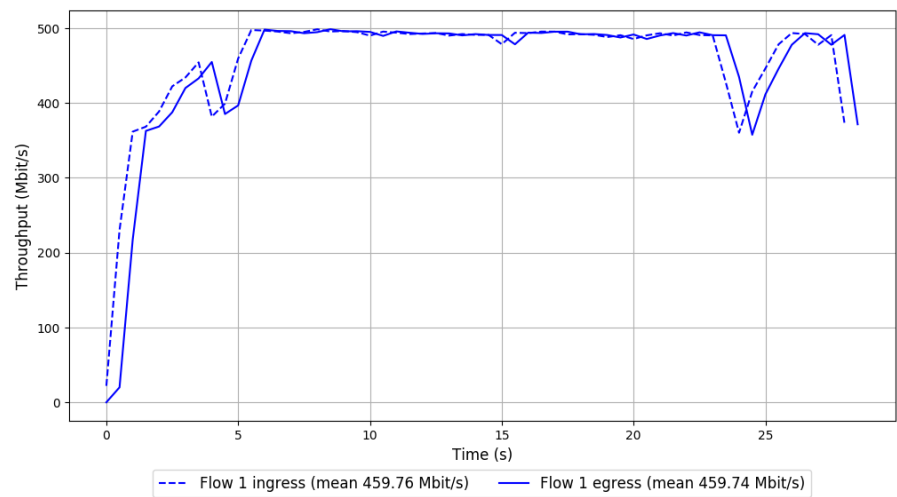
-- Flow 1:

Average throughput: 459.74 Mbit/s

95th percentile per-packet one-way delay: 19.072 ms

Loss rate: 0.08%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-09-18 17:25:56

End at: 2019-09-18 17:26:26

Local clock offset: -1.027 ms

Remote clock offset: 0.261 ms

Below is generated by plot.py at 2019-09-18 19:10:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 476.19 Mbit/s

95th percentile per-packet one-way delay: 19.965 ms

Loss rate: 0.08%

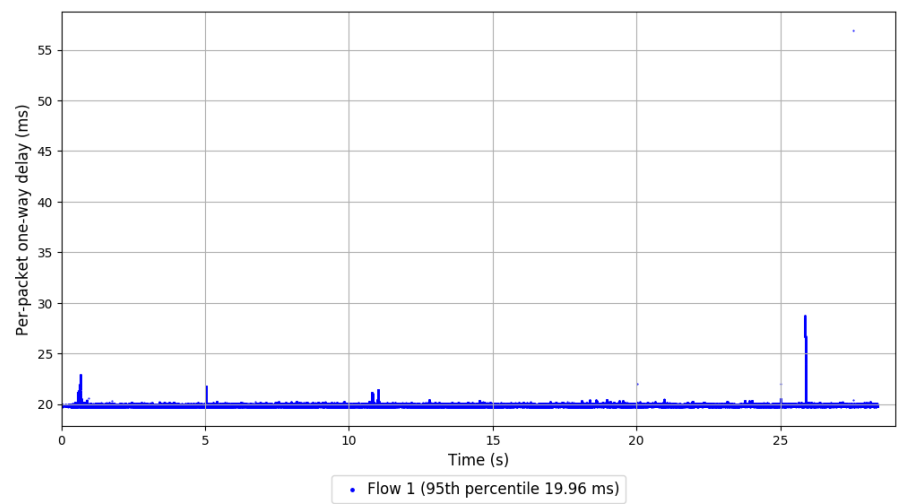
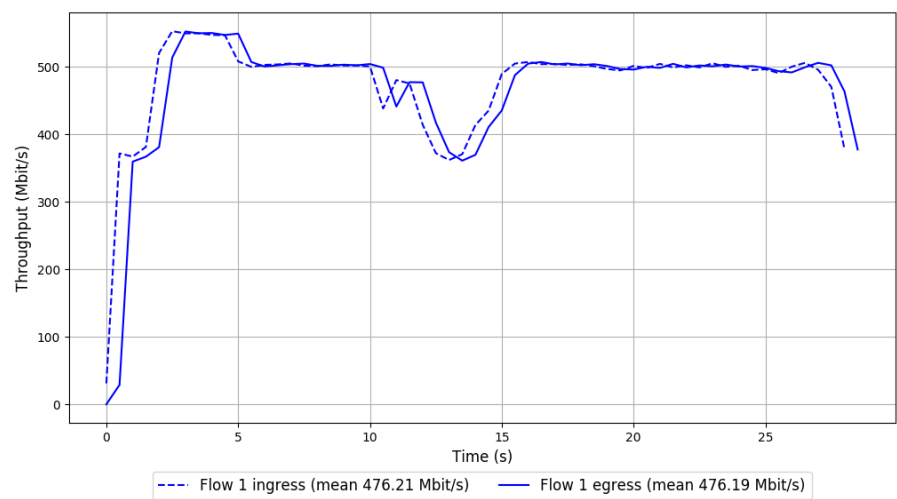
-- Flow 1:

Average throughput: 476.19 Mbit/s

95th percentile per-packet one-way delay: 19.965 ms

Loss rate: 0.08%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-09-18 17:59:47

End at: 2019-09-18 18:00:17

Local clock offset: -0.813 ms

Remote clock offset: 1.561 ms

Below is generated by plot.py at 2019-09-18 19:10:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 385.63 Mbit/s

95th percentile per-packet one-way delay: 18.492 ms

Loss rate: 0.06%

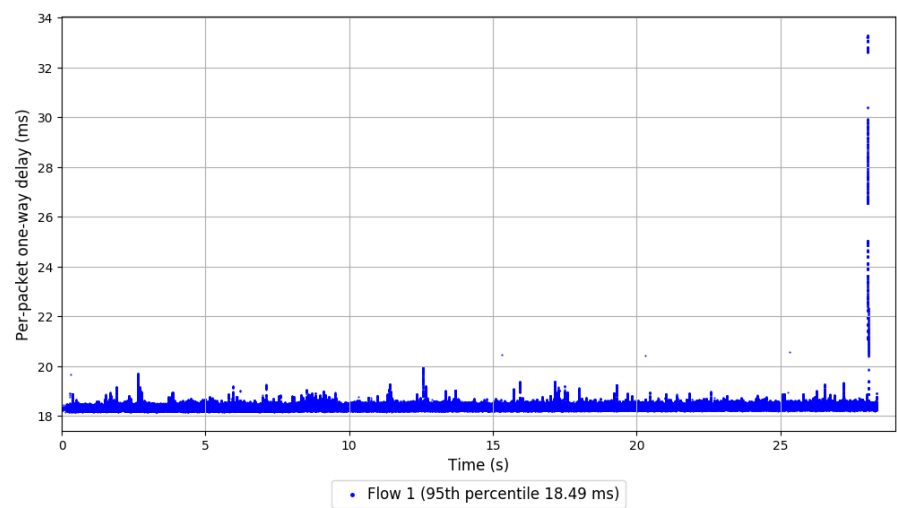
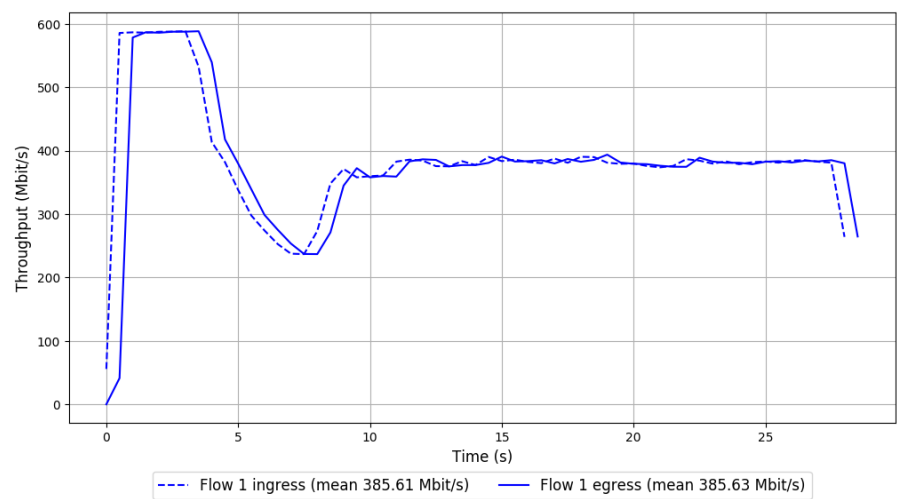
-- Flow 1:

Average throughput: 385.63 Mbit/s

95th percentile per-packet one-way delay: 18.492 ms

Loss rate: 0.06%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-09-18 15:45:59

End at: 2019-09-18 15:46:30

Local clock offset: -0.04 ms

Remote clock offset: 0.153 ms

Below is generated by plot.py at 2019-09-18 19:10:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 384.84 Mbit/s

95th percentile per-packet one-way delay: 20.016 ms

Loss rate: 0.07%

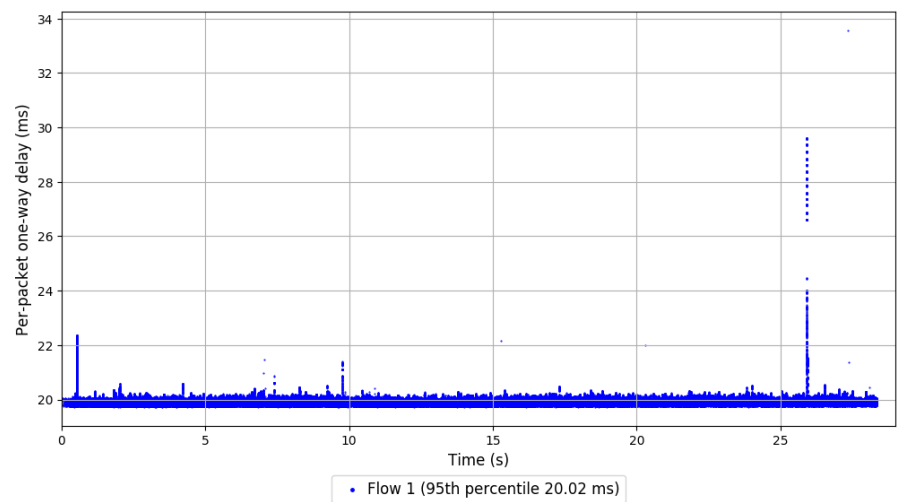
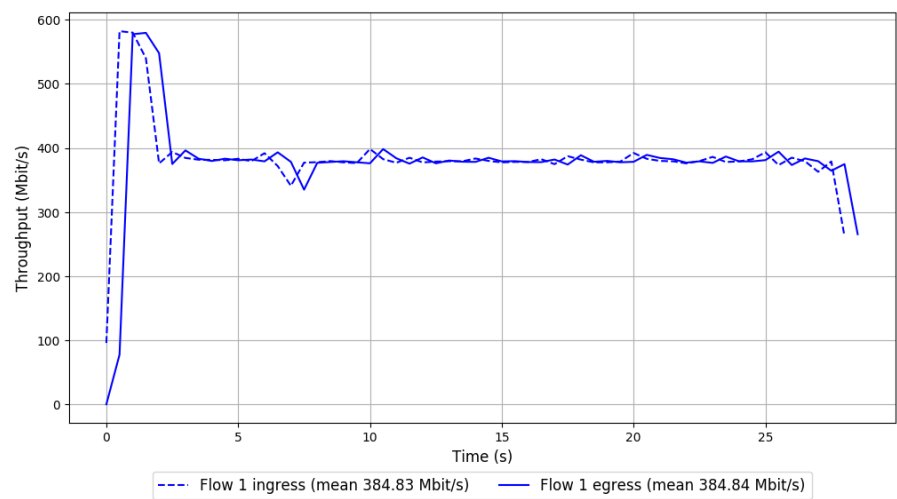
-- Flow 1:

Average throughput: 384.84 Mbit/s

95th percentile per-packet one-way delay: 20.016 ms

Loss rate: 0.07%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-09-18 16:19:49

End at: 2019-09-18 16:20:19

Local clock offset: 3.316 ms

Remote clock offset: 0.407 ms

Below is generated by plot.py at 2019-09-18 19:12:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 438.45 Mbit/s

95th percentile per-packet one-way delay: 19.915 ms

Loss rate: 0.06%

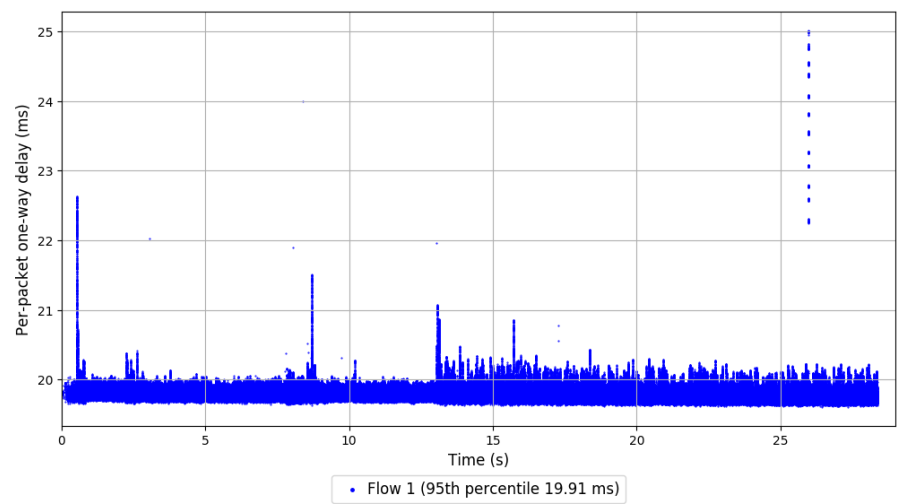
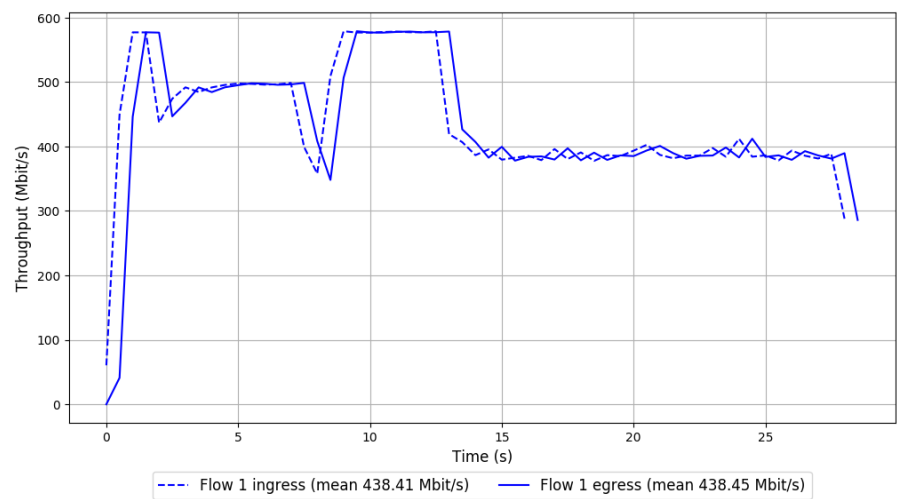
-- Flow 1:

Average throughput: 438.45 Mbit/s

95th percentile per-packet one-way delay: 19.915 ms

Loss rate: 0.06%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-09-18 16:54:15

End at: 2019-09-18 16:54:45

Local clock offset: 4.86 ms

Remote clock offset: 0.285 ms

Below is generated by plot.py at 2019-09-18 19:12:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 258.62 Mbit/s

95th percentile per-packet one-way delay: 0.966 ms

Loss rate: 0.00%

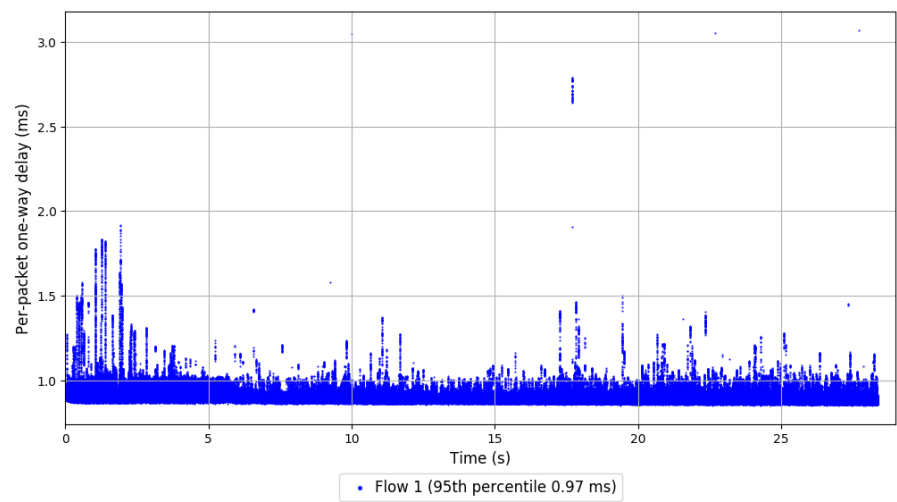
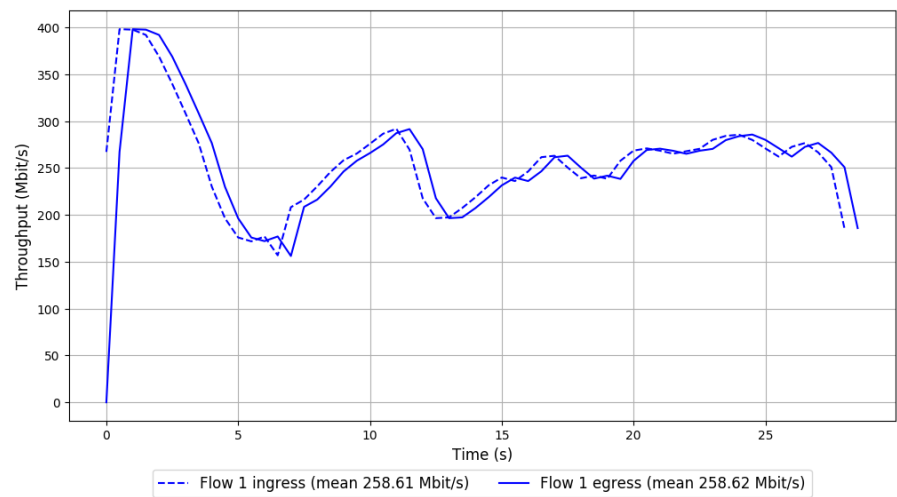
-- Flow 1:

Average throughput: 258.62 Mbit/s

95th percentile per-packet one-way delay: 0.966 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-09-18 17:28:38

End at: 2019-09-18 17:29:08

Local clock offset: -1.258 ms

Remote clock offset: 0.126 ms

Below is generated by plot.py at 2019-09-18 19:12:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.77 Mbit/s

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

Loss rate: 0.01%

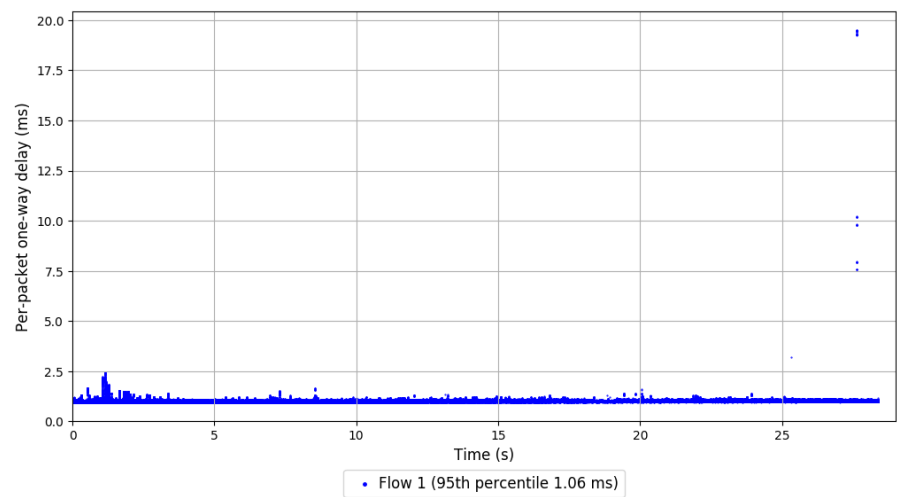
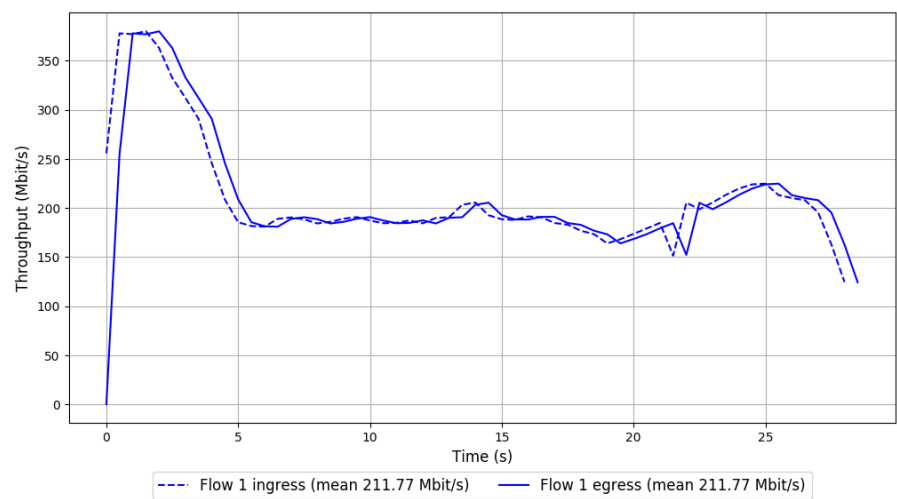
-- Flow 1:

Average throughput: 211.77 Mbit/s

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

Loss rate: 0.01%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-09-18 18:02:40

End at: 2019-09-18 18:03:10

Local clock offset: -0.621 ms

Remote clock offset: 2.056 ms

Below is generated by plot.py at 2019-09-18 19:12:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 236.23 Mbit/s

95th percentile per-packet one-way delay: 1.053 ms

Loss rate: 0.01%

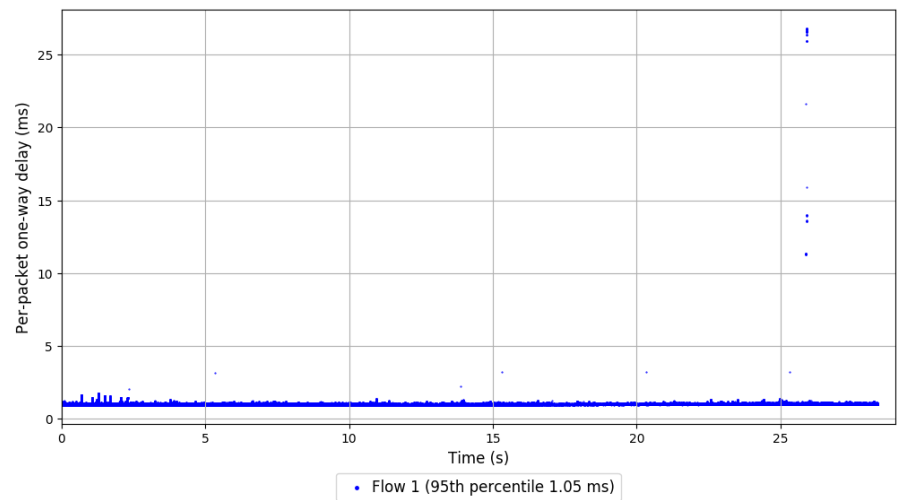
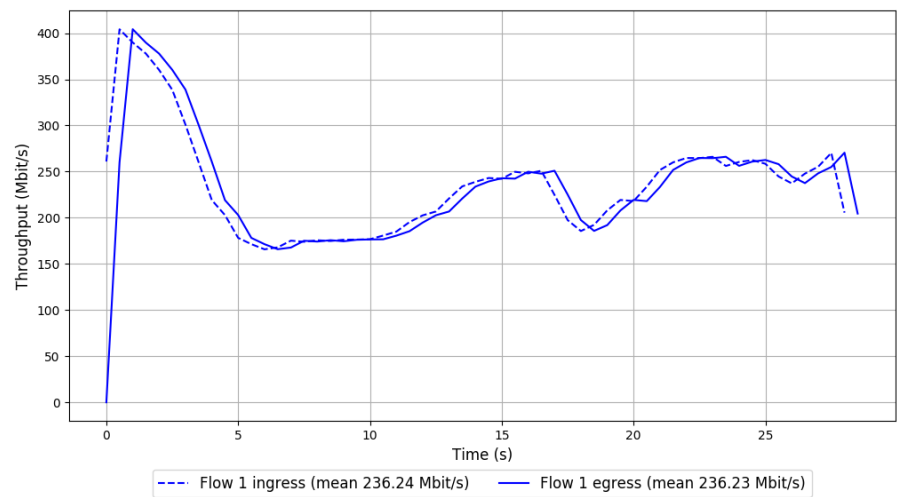
-- Flow 1:

Average throughput: 236.23 Mbit/s

95th percentile per-packet one-way delay: 1.053 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesT — Data Link

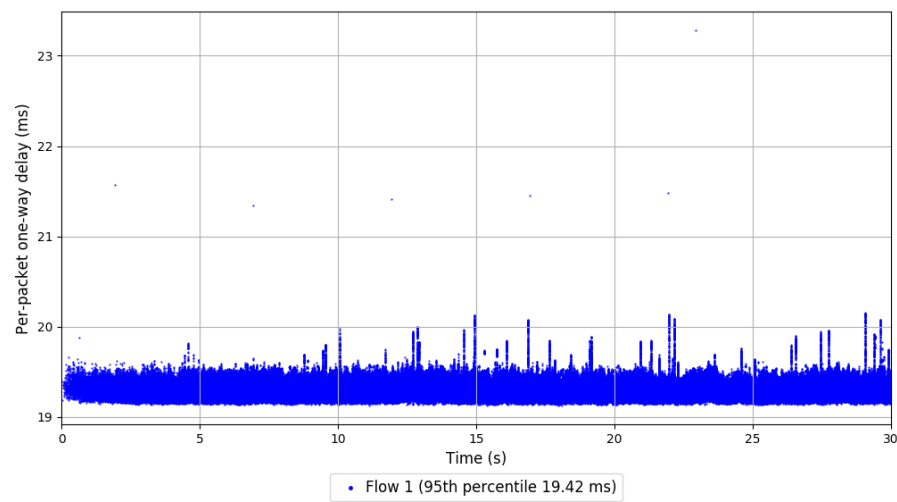
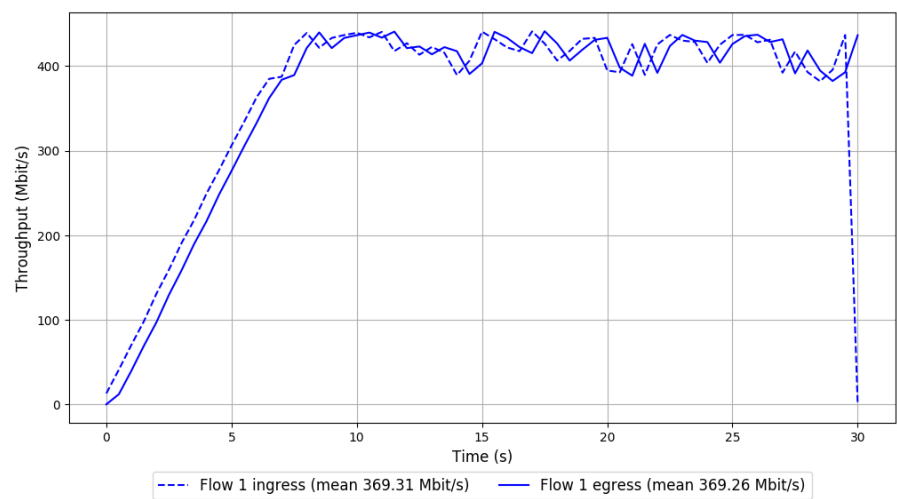


Run 1: Statistics of LEDBAT

Start at: 2019-09-18 15:34:36
End at: 2019-09-18 15:35:06
Local clock offset: -0.187 ms
Remote clock offset: -0.134 ms

Below is generated by plot.py at 2019-09-18 19:14:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 369.26 Mbit/s
95th percentile per-packet one-way delay: 19.423 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 369.26 Mbit/s
95th percentile per-packet one-way delay: 19.423 ms
Loss rate: 0.08%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-09-18 16:08:55

End at: 2019-09-18 16:09:25

Local clock offset: 2.102 ms

Remote clock offset: 0.738 ms

Below is generated by plot.py at 2019-09-18 19:14:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 374.02 Mbit/s

95th percentile per-packet one-way delay: 18.686 ms

Loss rate: 0.08%

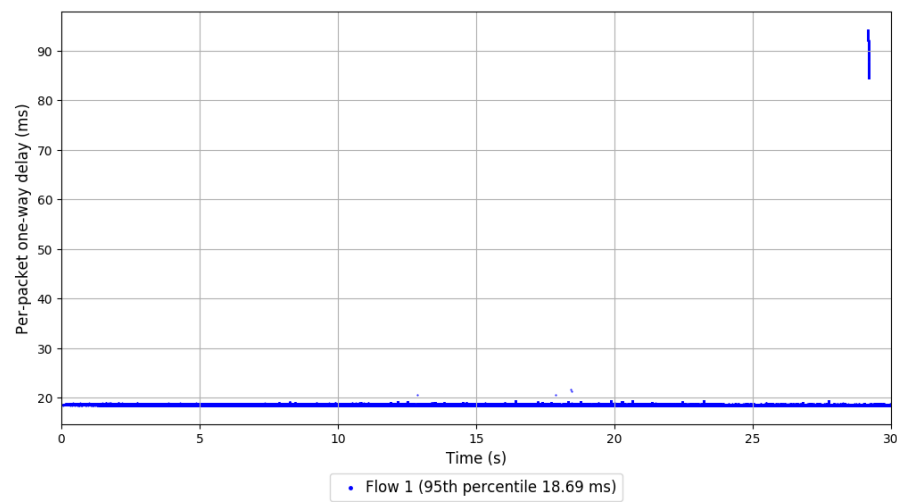
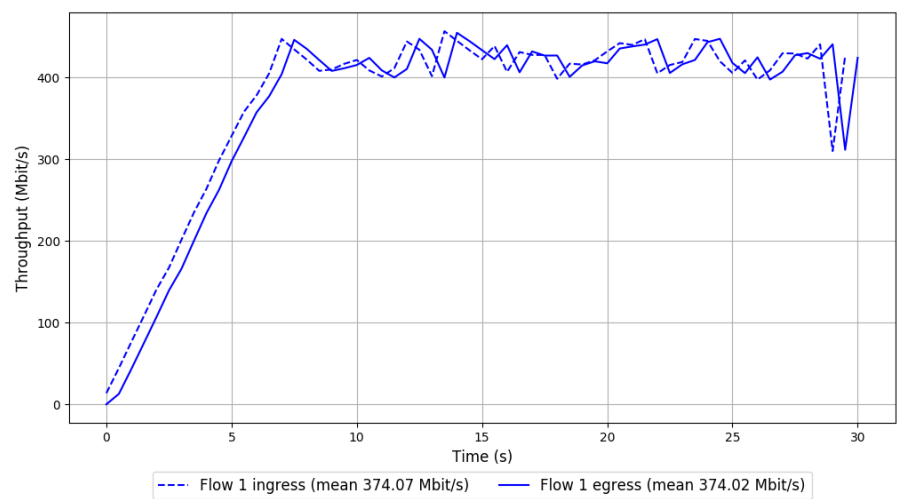
-- Flow 1:

Average throughput: 374.02 Mbit/s

95th percentile per-packet one-way delay: 18.686 ms

Loss rate: 0.08%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-09-18 16:43:00

End at: 2019-09-18 16:43:30

Local clock offset: 4.424 ms

Remote clock offset: 0.246 ms

Below is generated by plot.py at 2019-09-18 19:14:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 365.89 Mbit/s

95th percentile per-packet one-way delay: 19.462 ms

Loss rate: 0.08%

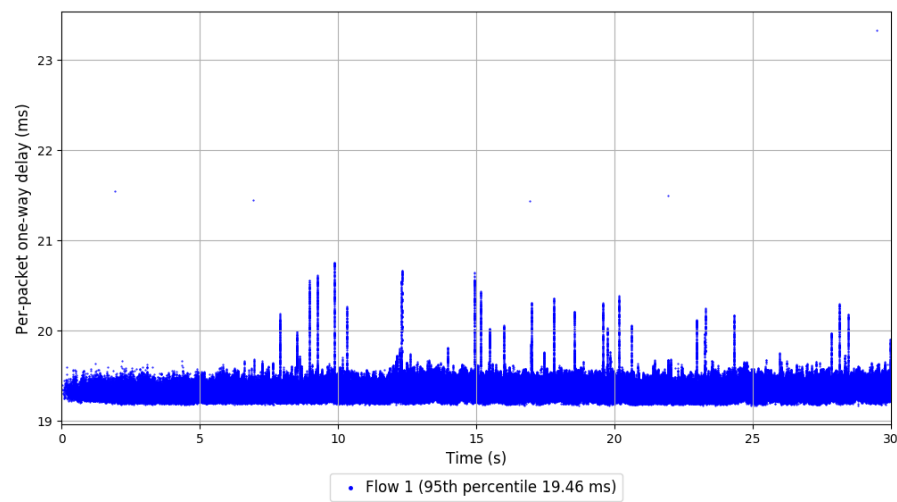
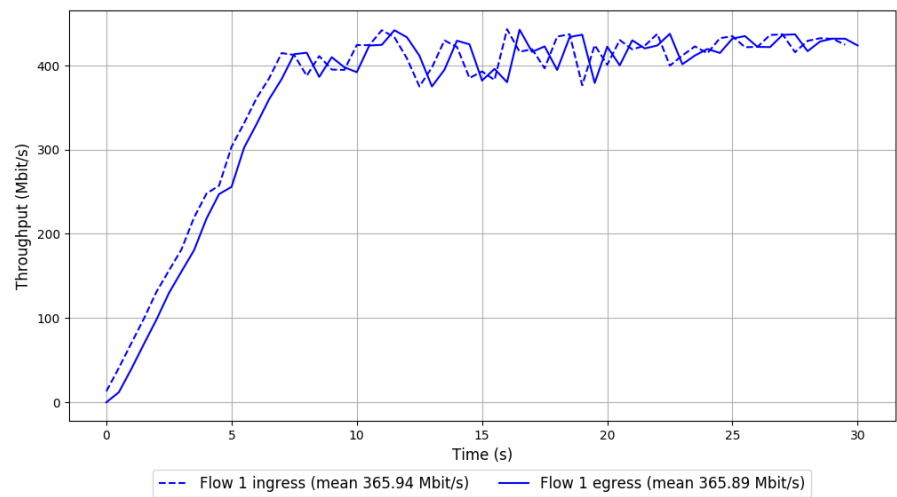
-- Flow 1:

Average throughput: 365.89 Mbit/s

95th percentile per-packet one-way delay: 19.462 ms

Loss rate: 0.08%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-09-18 17:17:09

End at: 2019-09-18 17:17:39

Local clock offset: -0.061 ms

Remote clock offset: 0.329 ms

Below is generated by plot.py at 2019-09-18 19:14:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 346.22 Mbit/s

95th percentile per-packet one-way delay: 18.942 ms

Loss rate: 0.07%

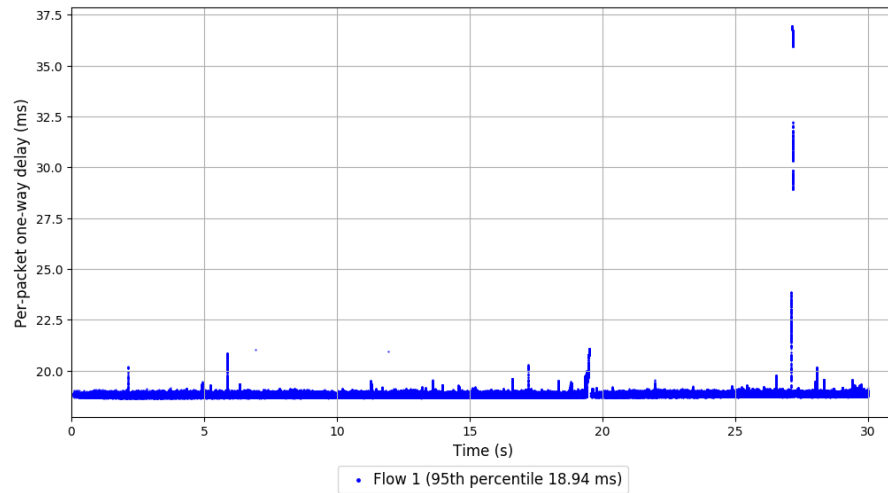
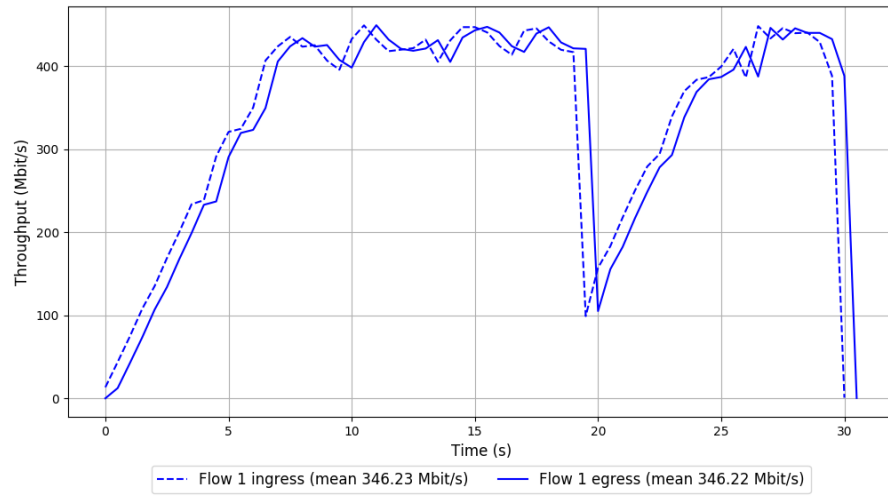
-- Flow 1:

Average throughput: 346.22 Mbit/s

95th percentile per-packet one-way delay: 18.942 ms

Loss rate: 0.07%

Run 4: Report of LEDBAT — Data Link

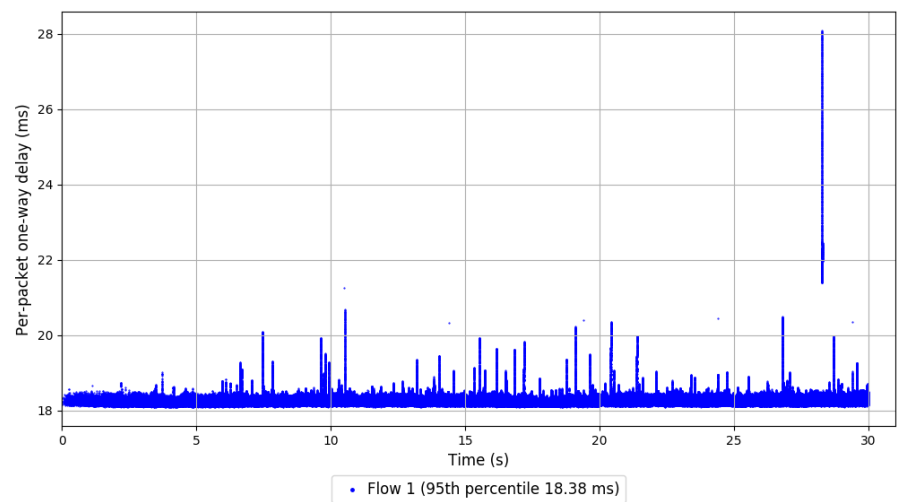
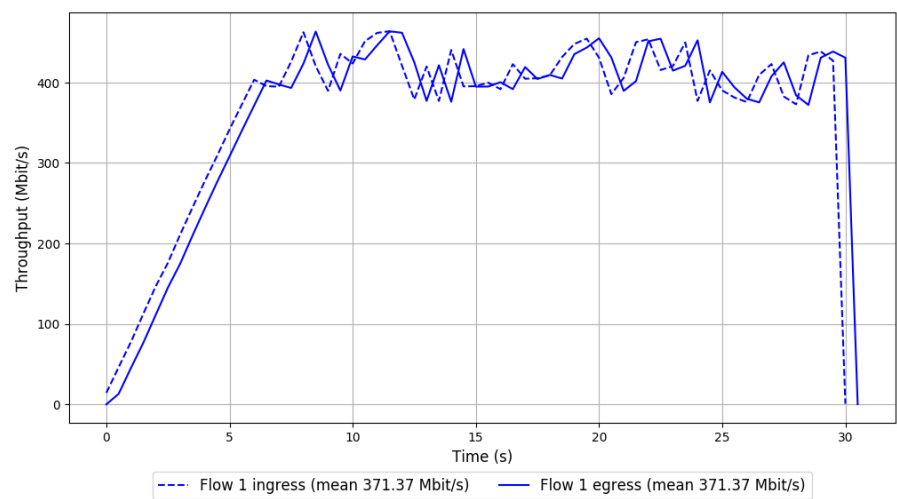


Run 5: Statistics of LEDBAT

Start at: 2019-09-18 17:51:18
End at: 2019-09-18 17:51:48
Local clock offset: -0.654 ms
Remote clock offset: -0.023 ms

Below is generated by plot.py at 2019-09-18 19:15:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 371.37 Mbit/s
95th percentile per-packet one-way delay: 18.384 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 371.37 Mbit/s
95th percentile per-packet one-way delay: 18.384 ms
Loss rate: 0.06%

Run 5: Report of LEDBAT — Data Link

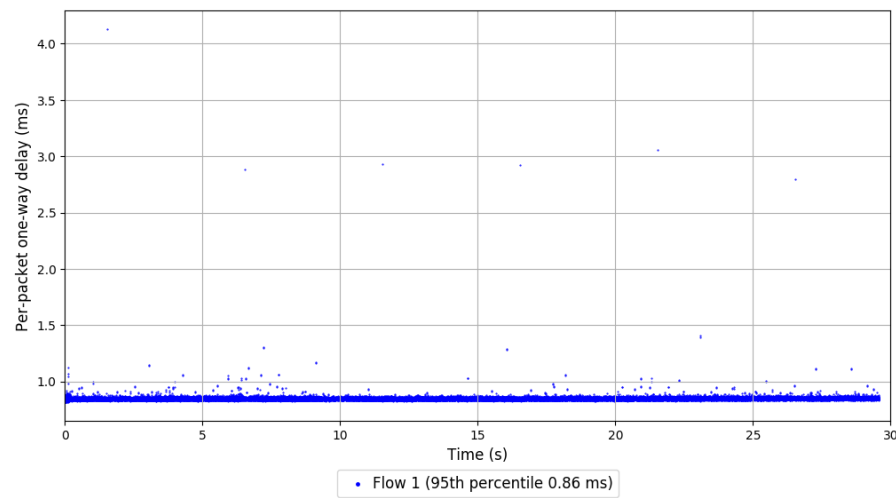
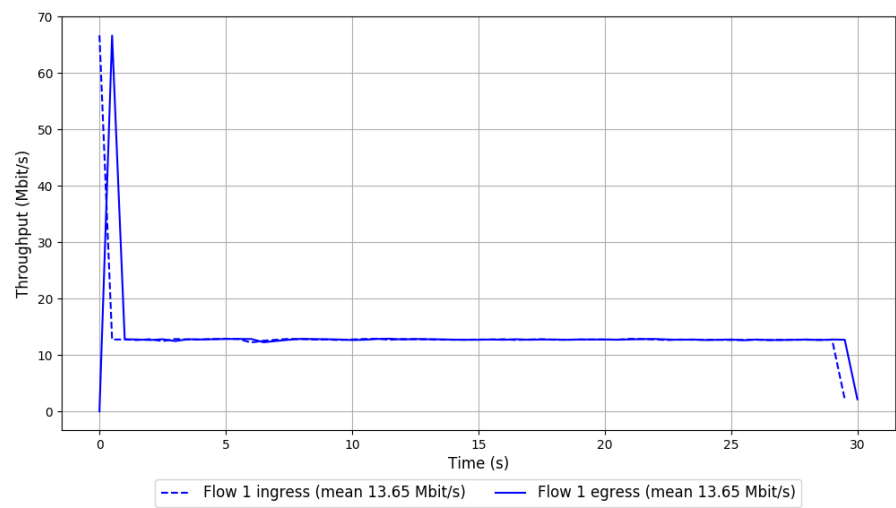


Run 1: Statistics of Muses_DecisionTree

Start at: 2019-09-18 15:37:37
End at: 2019-09-18 15:38:07
Local clock offset: -0.112 ms
Remote clock offset: -0.069 ms

Below is generated by plot.py at 2019-09-18 19:15:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.65 Mbit/s
95th percentile per-packet one-way delay: 0.864 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.65 Mbit/s
95th percentile per-packet one-way delay: 0.864 ms
Loss rate: 0.00%

Run 1: Report of Muses_DecisionTree — Data Link



Run 2: Statistics of Muses_DecisionTree

Start at: 2019-09-18 16:11:38

End at: 2019-09-18 16:12:08

Local clock offset: 2.51 ms

Remote clock offset: 0.884 ms

Below is generated by plot.py at 2019-09-18 19:15:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.37 Mbit/s

95th percentile per-packet one-way delay: 18.226 ms

Loss rate: 0.02%

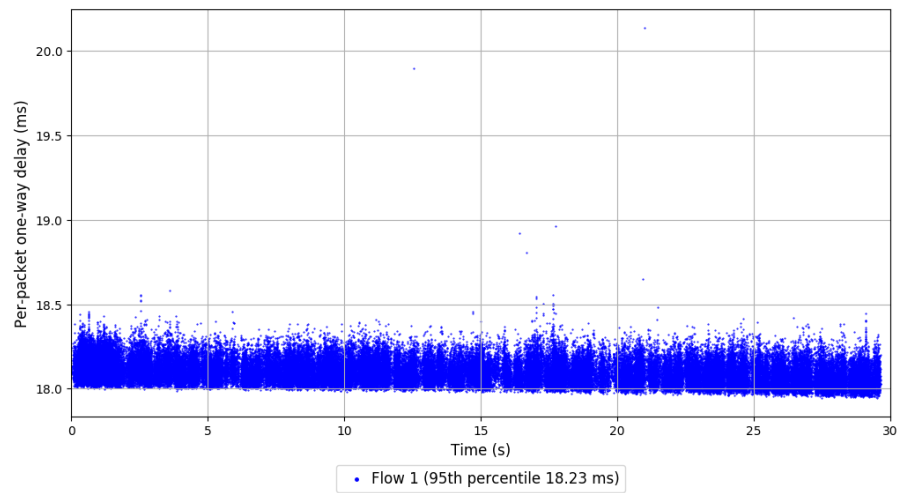
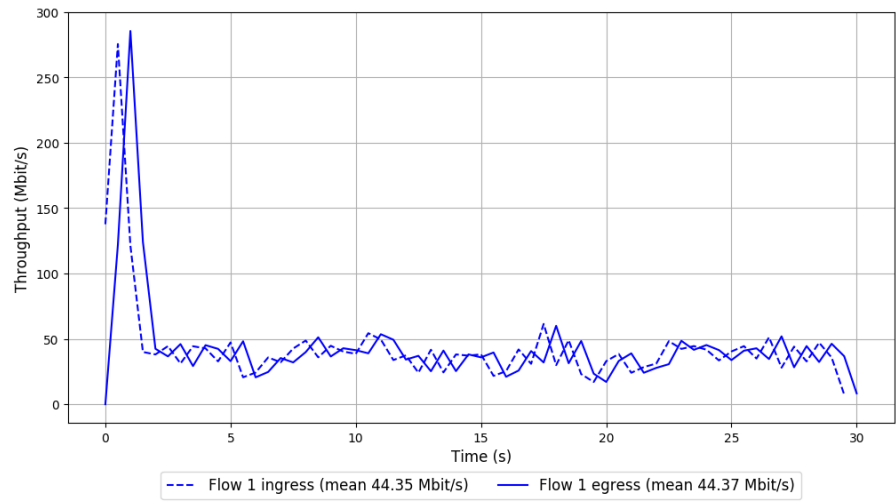
-- Flow 1:

Average throughput: 44.37 Mbit/s

95th percentile per-packet one-way delay: 18.226 ms

Loss rate: 0.02%

Run 2: Report of Muses_DecisionTree — Data Link



Run 3: Statistics of Muses_DecisionTree

Start at: 2019-09-18 16:46:01

End at: 2019-09-18 16:46:31

Local clock offset: 4.539 ms

Remote clock offset: 0.274 ms

Below is generated by plot.py at 2019-09-18 19:15:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.95 Mbit/s

95th percentile per-packet one-way delay: 0.894 ms

Loss rate: 0.01%

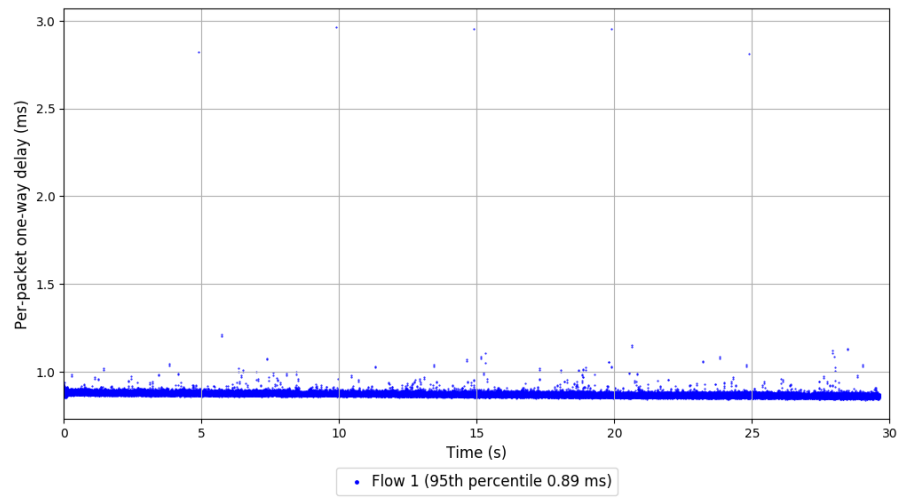
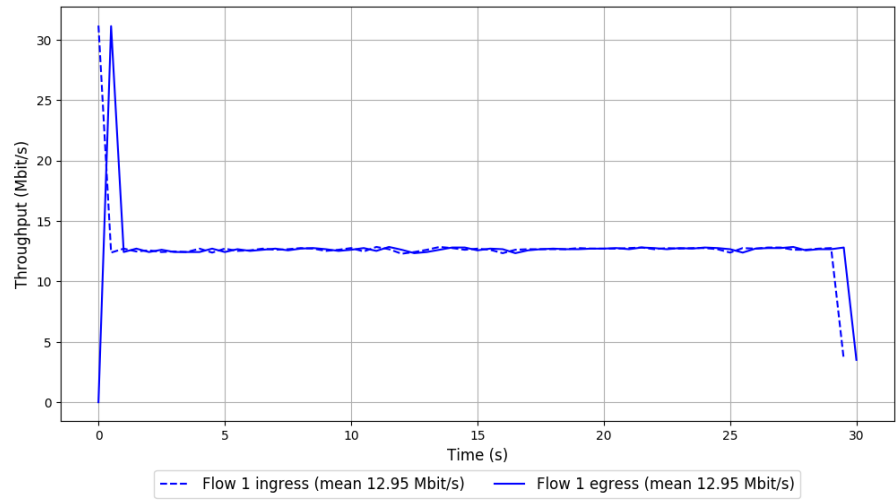
-- Flow 1:

Average throughput: 12.95 Mbit/s

95th percentile per-packet one-way delay: 0.894 ms

Loss rate: 0.01%

Run 3: Report of Muses_DecisionTree — Data Link



Run 4: Statistics of Muses_DecisionTree

Start at: 2019-09-18 17:20:11

End at: 2019-09-18 17:20:41

Local clock offset: -0.455 ms

Remote clock offset: 0.324 ms

Below is generated by plot.py at 2019-09-18 19:15:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 249.21 Mbit/s

95th percentile per-packet one-way delay: 19.165 ms

Loss rate: 0.06%

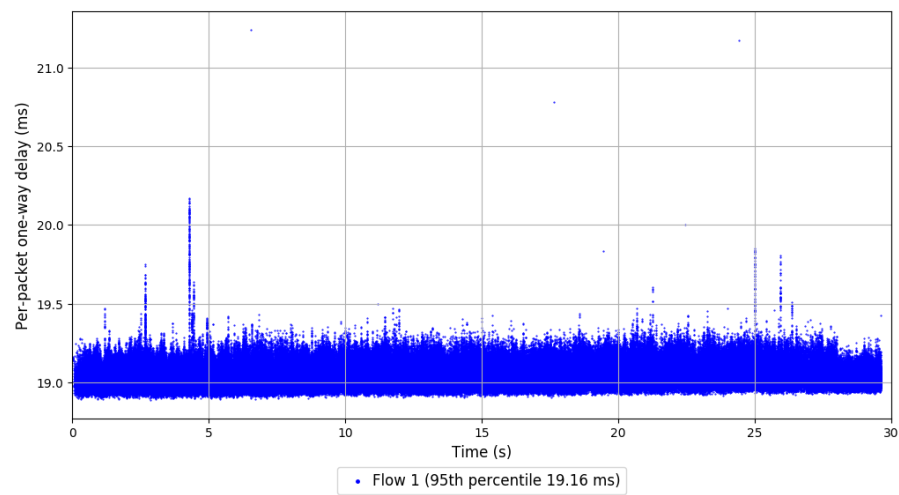
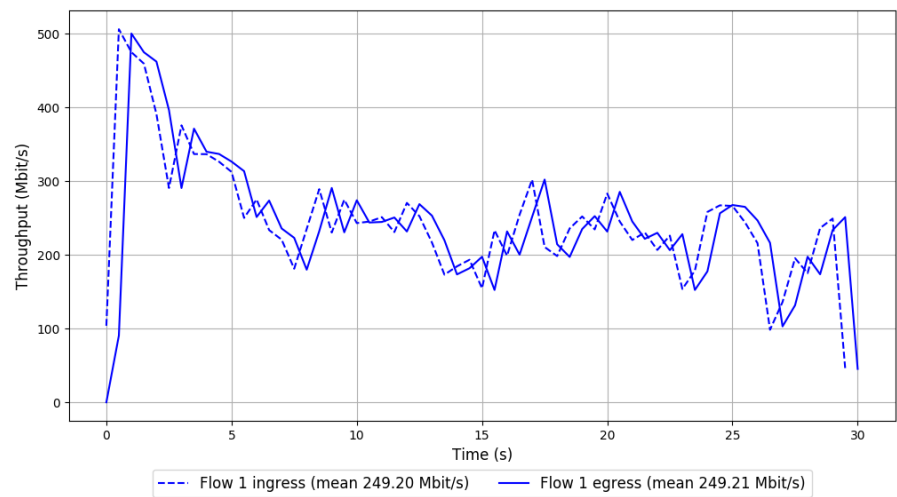
-- Flow 1:

Average throughput: 249.21 Mbit/s

95th percentile per-packet one-way delay: 19.165 ms

Loss rate: 0.06%

Run 4: Report of Muses_DecisionTree — Data Link



Run 5: Statistics of Muses_DecisionTree

Start at: 2019-09-18 17:54:02

End at: 2019-09-18 17:54:32

Local clock offset: -0.663 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2019-09-18 19:15:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.70 Mbit/s

95th percentile per-packet one-way delay: 0.919 ms

Loss rate: 0.01%

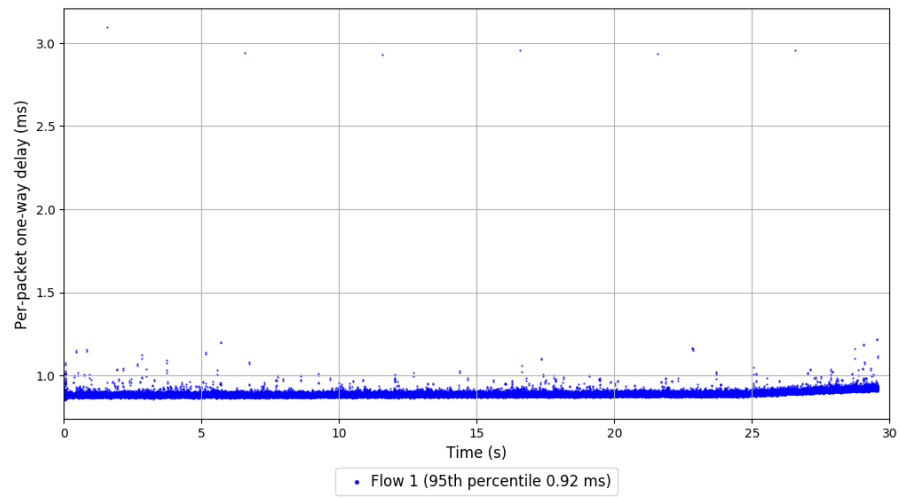
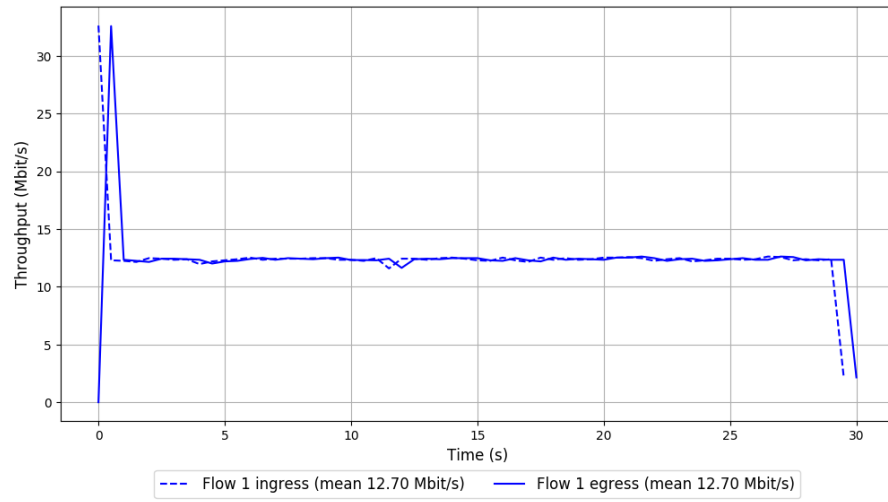
-- Flow 1:

Average throughput: 12.70 Mbit/s

95th percentile per-packet one-way delay: 0.919 ms

Loss rate: 0.01%

Run 5: Report of Muses_DecisionTree — Data Link

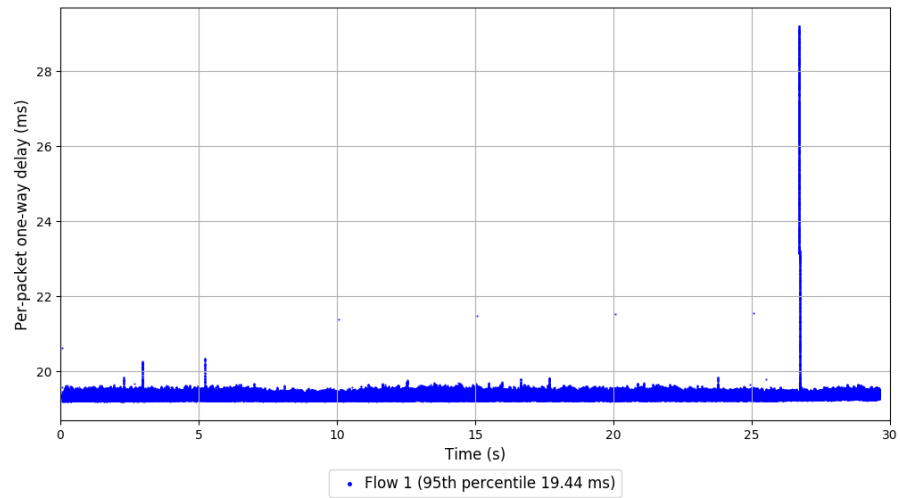
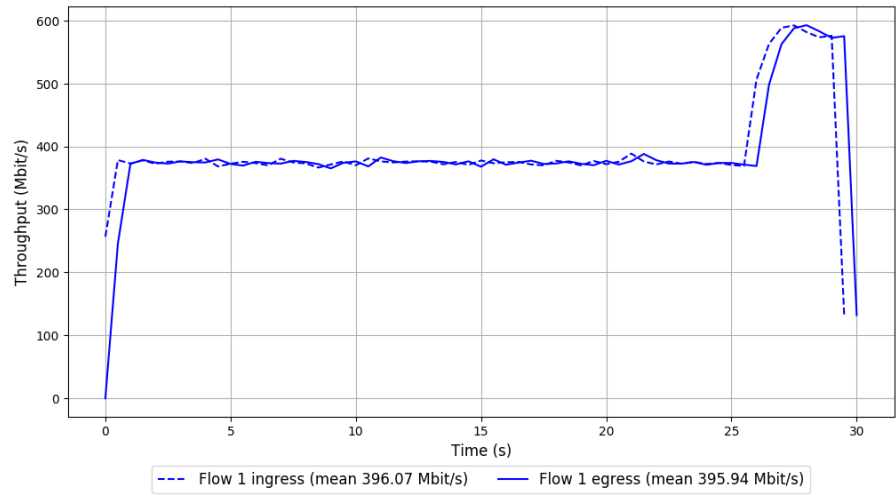


```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-09-18 15:44:33
End at: 2019-09-18 15:45:03
Local clock offset: -0.079 ms
Remote clock offset: 0.133 ms

# Below is generated by plot.py at 2019-09-18 19:17:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 395.94 Mbit/s
95th percentile per-packet one-way delay: 19.444 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 395.94 Mbit/s
95th percentile per-packet one-way delay: 19.444 ms
Loss rate: 0.10%
```

Run 1: Report of Muses_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2019-09-18 16:18:35

End at: 2019-09-18 16:19:05

Local clock offset: 3.225 ms

Remote clock offset: 0.443 ms

Below is generated by plot.py at 2019-09-18 19:17:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.57 Mbit/s

95th percentile per-packet one-way delay: 0.878 ms

Loss rate: 0.01%

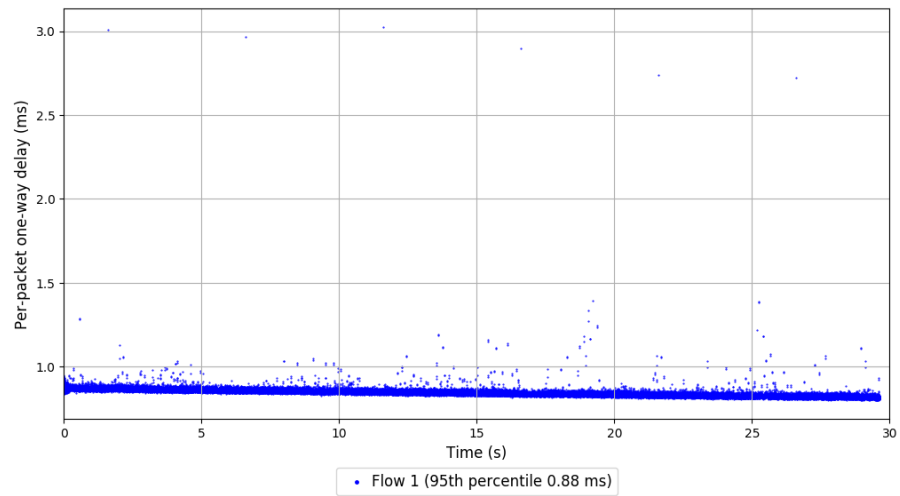
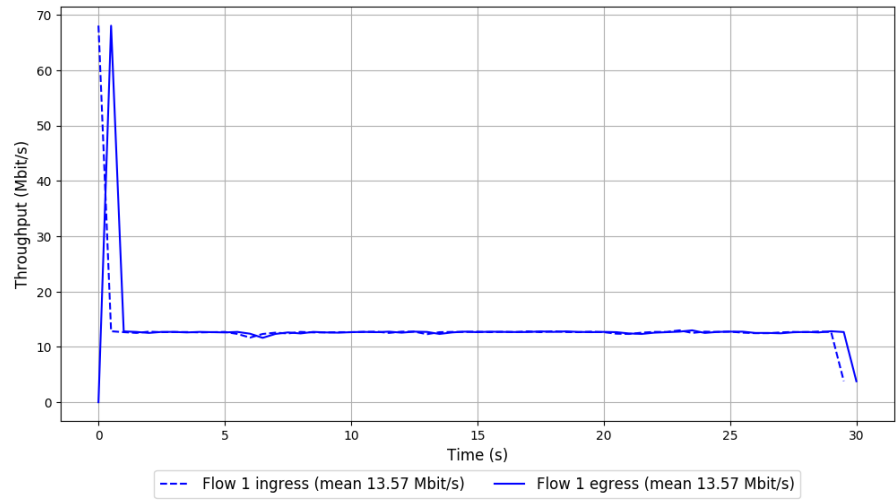
-- Flow 1:

Average throughput: 13.57 Mbit/s

95th percentile per-packet one-way delay: 0.878 ms

Loss rate: 0.01%

Run 2: Report of Muses_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2019-09-18 16:53:01

End at: 2019-09-18 16:53:31

Local clock offset: 4.79 ms

Remote clock offset: 0.223 ms

Below is generated by plot.py at 2019-09-18 19:17:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.60 Mbit/s

95th percentile per-packet one-way delay: 0.928 ms

Loss rate: 0.01%

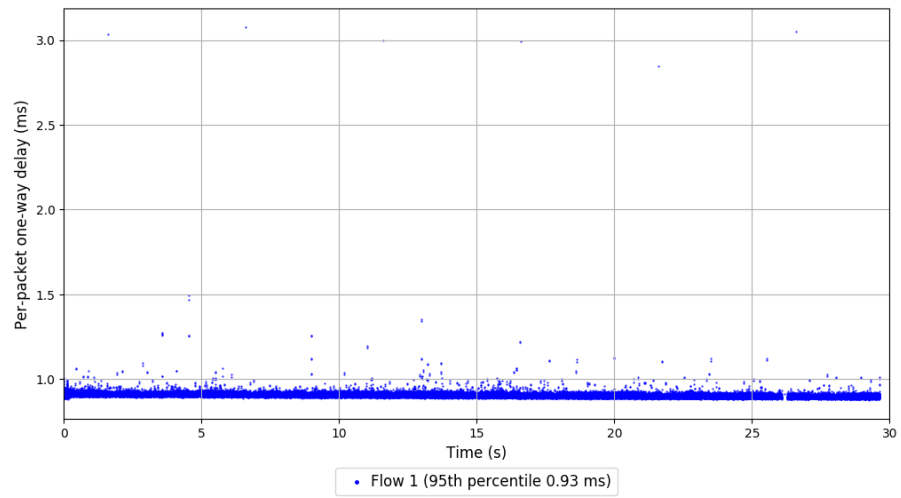
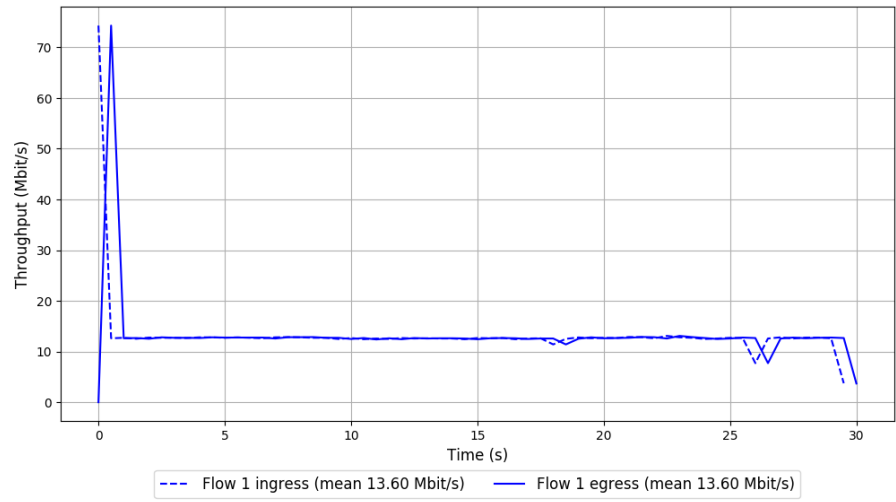
-- Flow 1:

Average throughput: 13.60 Mbit/s

95th percentile per-packet one-way delay: 0.928 ms

Loss rate: 0.01%

Run 3: Report of Muses_DecisionTreeH0 — Data Link



Run 4: Statistics of Muses_DecisionTreeH0

Start at: 2019-09-18 17:27:24

End at: 2019-09-18 17:27:55

Local clock offset: -1.156 ms

Remote clock offset: 0.218 ms

Below is generated by plot.py at 2019-09-18 19:17:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.47 Mbit/s

95th percentile per-packet one-way delay: 0.952 ms

Loss rate: 0.01%

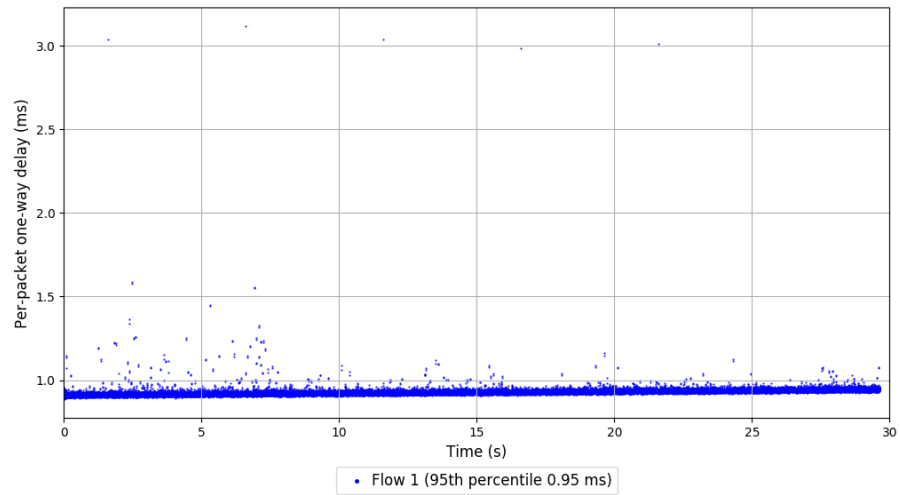
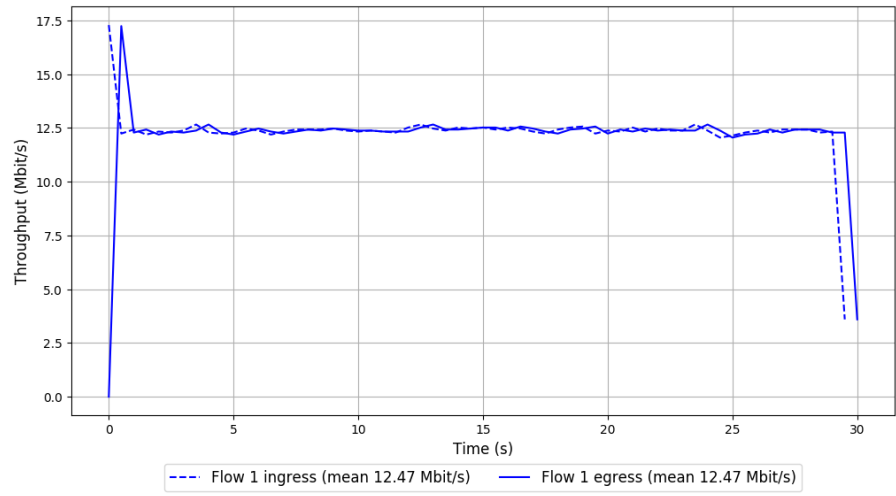
-- Flow 1:

Average throughput: 12.47 Mbit/s

95th percentile per-packet one-way delay: 0.952 ms

Loss rate: 0.01%

Run 4: Report of Muses_DecisionTreeH0 — Data Link



Run 5: Statistics of Muses_DecisionTreeH0

Start at: 2019-09-18 18:01:13

End at: 2019-09-18 18:01:43

Local clock offset: -0.763 ms

Remote clock offset: 1.888 ms

Below is generated by plot.py at 2019-09-18 19:18:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 410.82 Mbit/s

95th percentile per-packet one-way delay: 18.971 ms

Loss rate: 0.06%

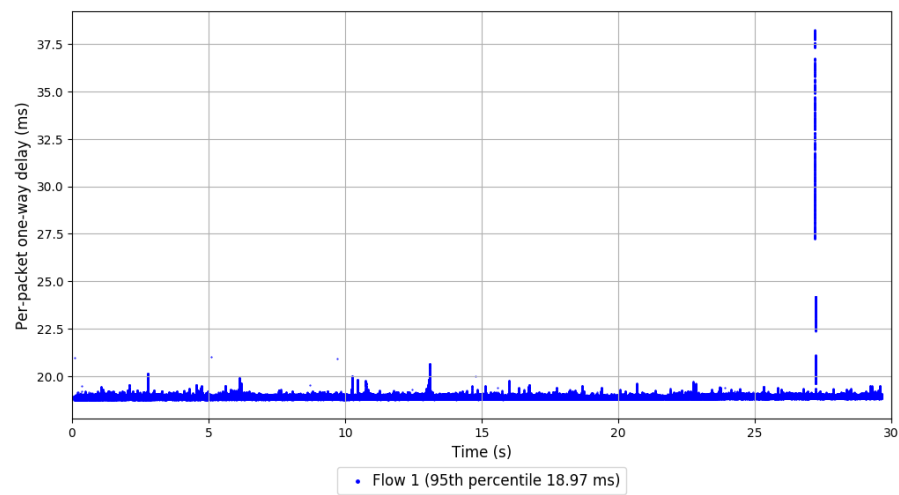
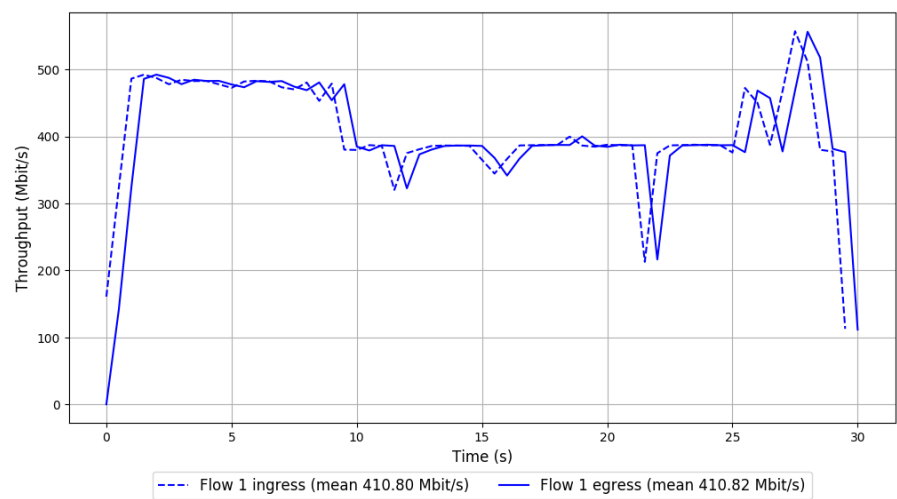
-- Flow 1:

Average throughput: 410.82 Mbit/s

95th percentile per-packet one-way delay: 18.971 ms

Loss rate: 0.06%

Run 5: Report of Muses_DecisionTreeH0 — Data Link

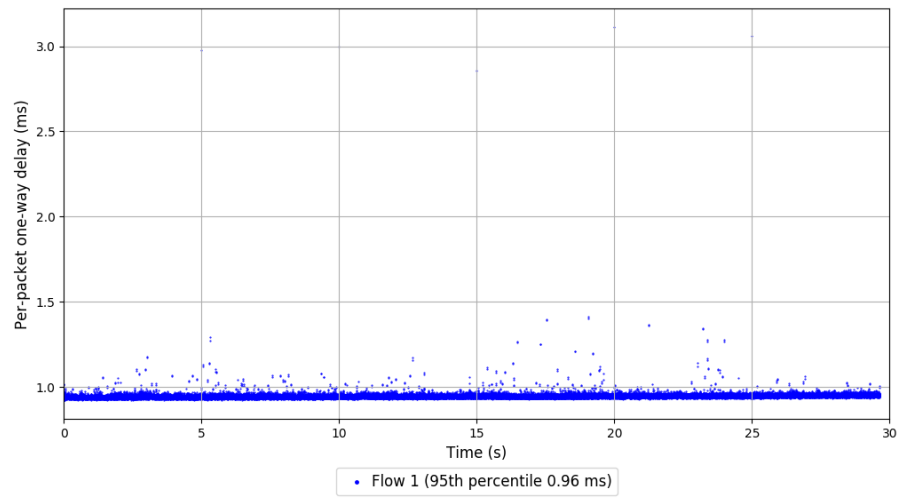
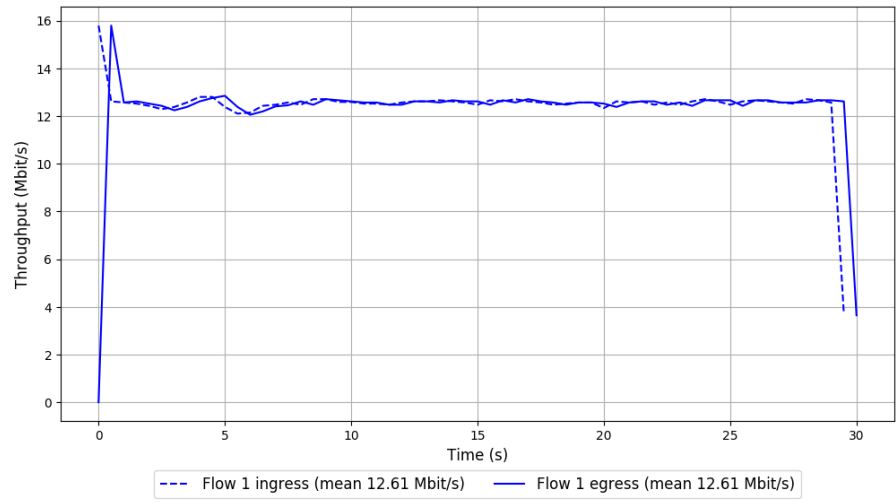


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-09-18 15:58:49
End at: 2019-09-18 15:59:19
Local clock offset: -0.135 ms
Remote clock offset: 0.523 ms

# Below is generated by plot.py at 2019-09-18 19:18:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 0.965 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 0.965 ms
Loss rate: 0.01%
```

Run 1: Report of Muses_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2019-09-18 16:32:43

End at: 2019-09-18 16:33:13

Local clock offset: 4.036 ms

Remote clock offset: 0.318 ms

Below is generated by plot.py at 2019-09-18 19:19:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 442.98 Mbit/s

95th percentile per-packet one-way delay: 18.705 ms

Loss rate: 0.07%

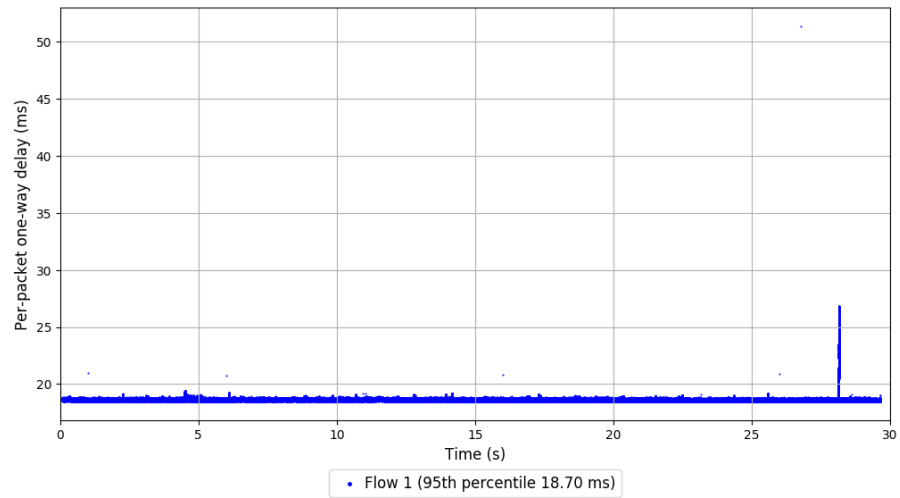
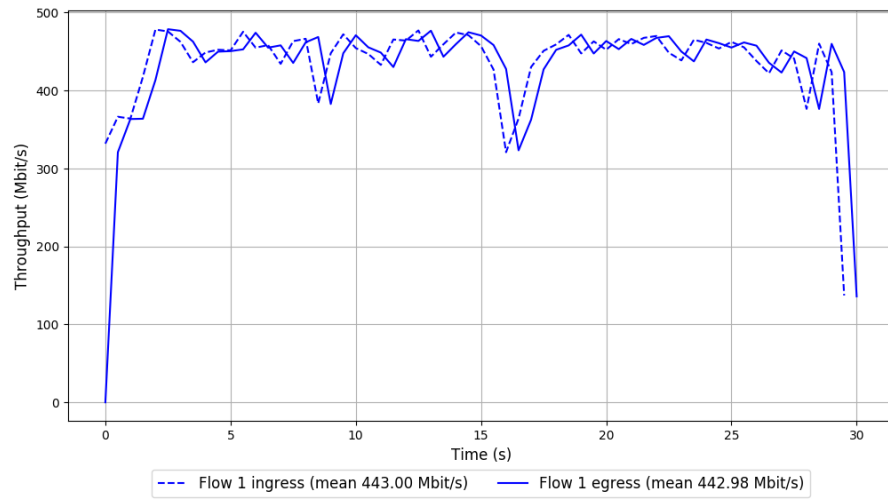
-- Flow 1:

Average throughput: 442.98 Mbit/s

95th percentile per-packet one-way delay: 18.705 ms

Loss rate: 0.07%

Run 2: Report of Muses_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-09-18 17:06:55

End at: 2019-09-18 17:07:25

Local clock offset: 2.159 ms

Remote clock offset: 0.291 ms

Below is generated by plot.py at 2019-09-18 19:19:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 339.09 Mbit/s

95th percentile per-packet one-way delay: 19.070 ms

Loss rate: 0.07%

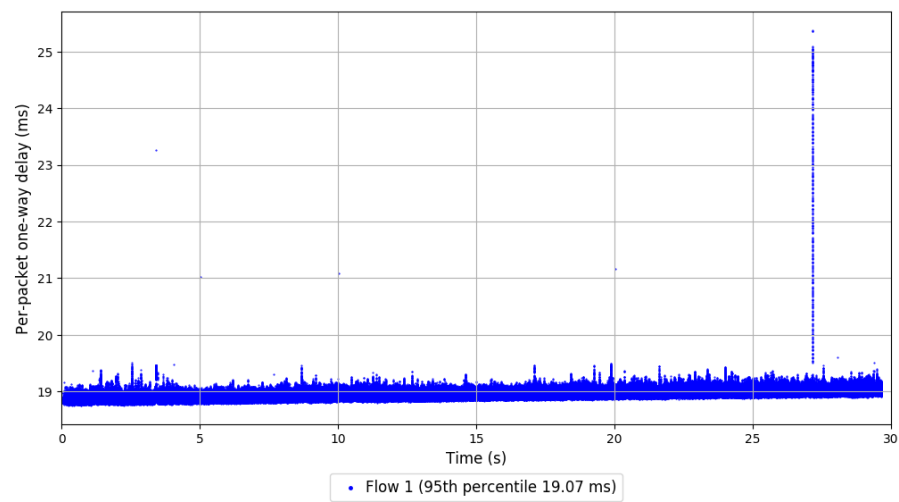
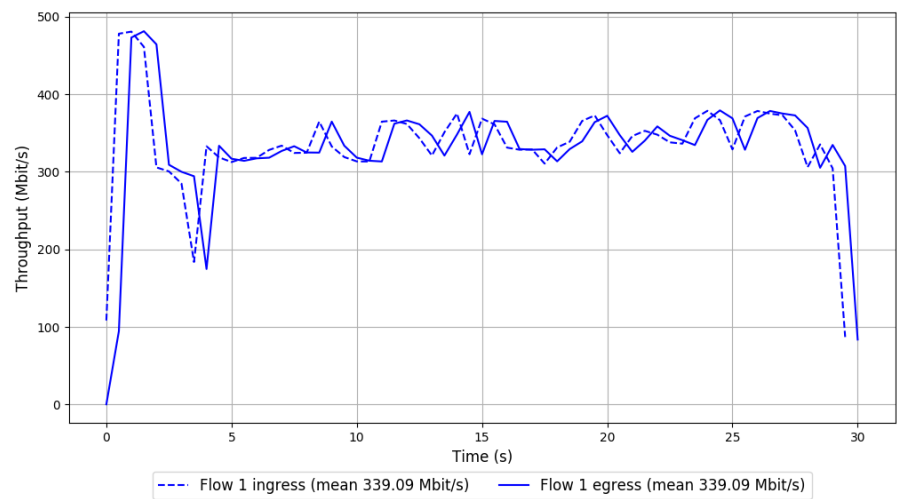
-- Flow 1:

Average throughput: 339.09 Mbit/s

95th percentile per-packet one-way delay: 19.070 ms

Loss rate: 0.07%

Run 3: Report of Muses_DecisionTreeR0 — Data Link



Run 4: Statistics of Muses_DecisionTreeR0

Start at: 2019-09-18 17:41:29

End at: 2019-09-18 17:41:59

Local clock offset: -0.618 ms

Remote clock offset: 0.033 ms

Below is generated by plot.py at 2019-09-18 19:19:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.46 Mbit/s

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

Loss rate: 0.01%

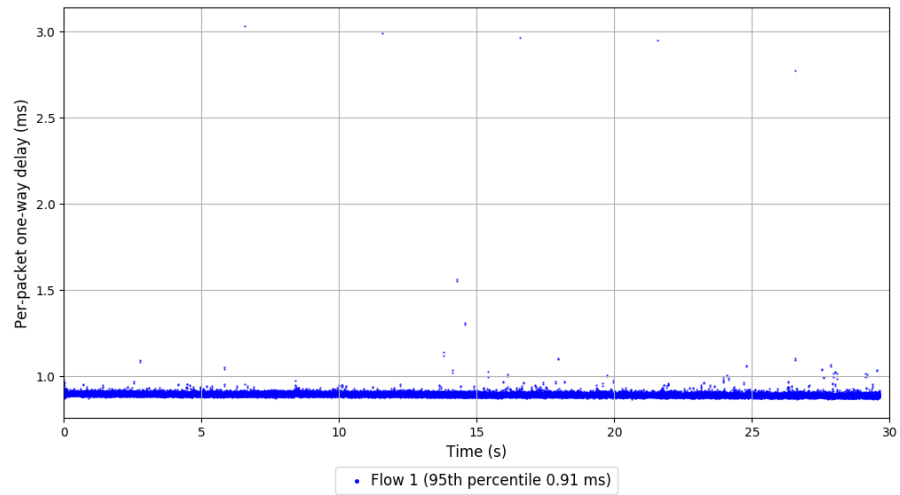
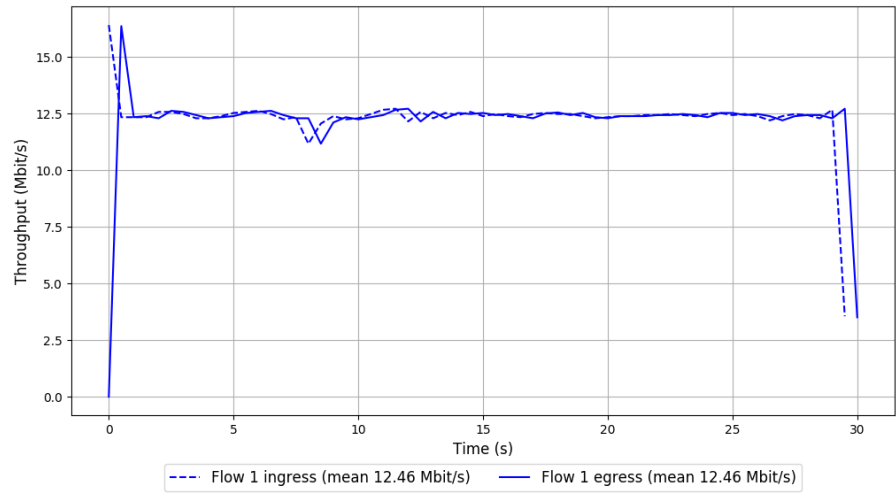
-- Flow 1:

Average throughput: 12.46 Mbit/s

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

Loss rate: 0.01%

Run 4: Report of Muses_DecisionTreeR0 — Data Link

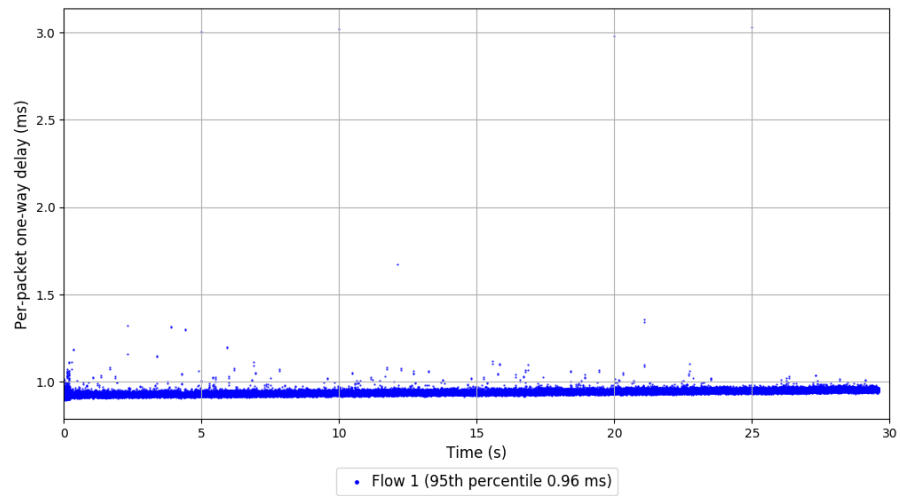
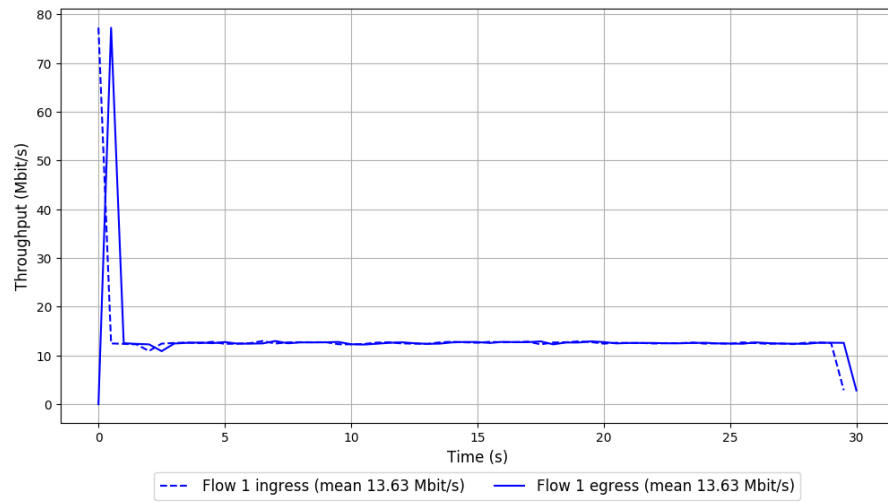


```
Run 5: Statistics of Muses\_DecisionTreeR0

Start at: 2019-09-18 18:15:11
End at: 2019-09-18 18:15:41
Local clock offset: -0.228 ms
Remote clock offset: 3.487 ms

# Below is generated by plot.py at 2019-09-18 19:19:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.63 Mbit/s
95th percentile per-packet one-way delay: 0.962 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 13.63 Mbit/s
95th percentile per-packet one-way delay: 0.962 ms
Loss rate: 0.01%
```

Run 5: Report of Muses_DecisionTreeR0 — Data Link

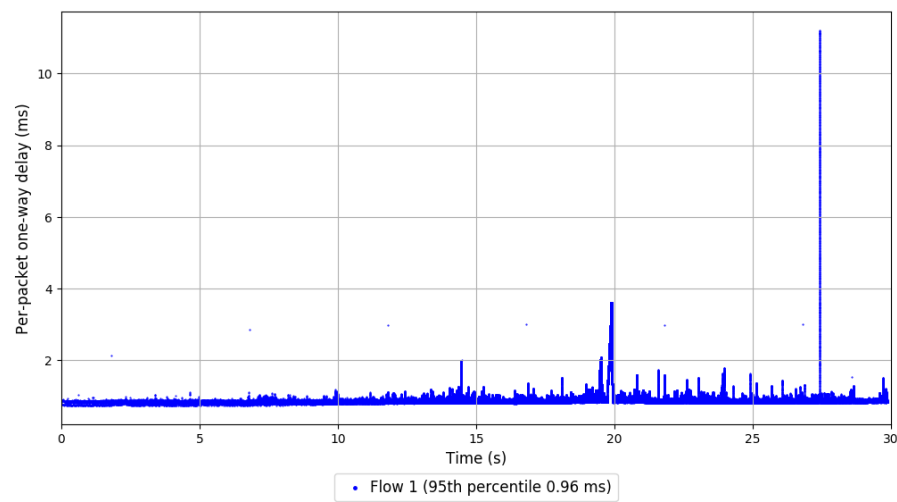
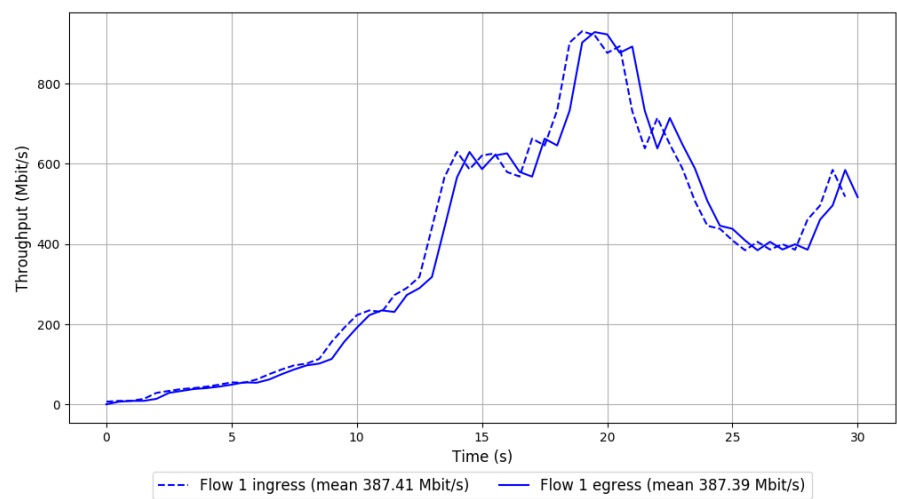


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-09-18 15:41:42
End at: 2019-09-18 15:42:12
Local clock offset: -0.06 ms
Remote clock offset: 0.113 ms

# Below is generated by plot.py at 2019-09-18 19:19:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 387.39 Mbit/s
95th percentile per-packet one-way delay: 0.960 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 387.39 Mbit/s
95th percentile per-packet one-way delay: 0.960 ms
Loss rate: 0.01%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-09-18 16:15:51

End at: 2019-09-18 16:16:21

Local clock offset: 2.989 ms

Remote clock offset: 0.564 ms

Below is generated by plot.py at 2019-09-18 19:22:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 629.41 Mbit/s

95th percentile per-packet one-way delay: 0.961 ms

Loss rate: 0.00%

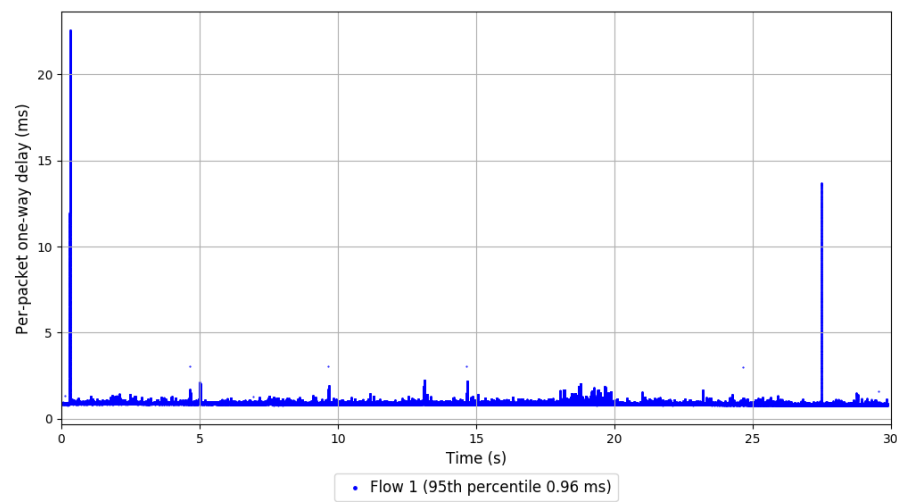
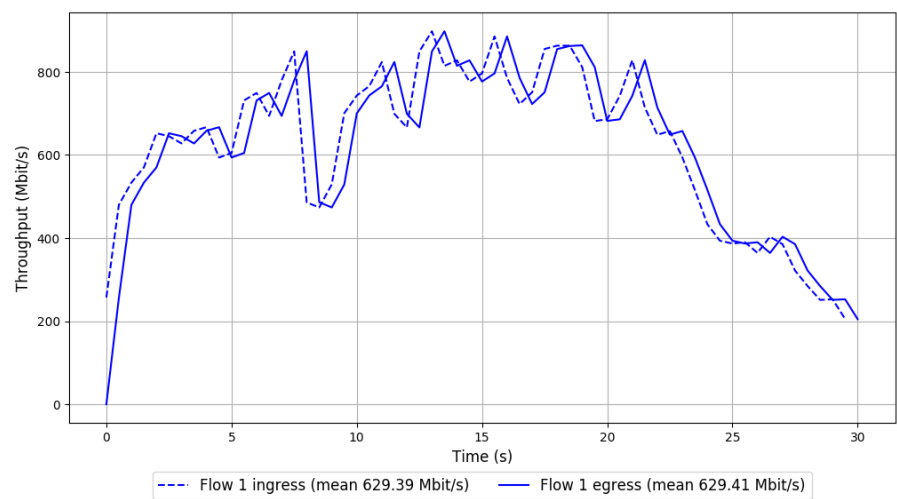
-- Flow 1:

Average throughput: 629.41 Mbit/s

95th percentile per-packet one-way delay: 0.961 ms

Loss rate: 0.00%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-09-18 16:50:05

End at: 2019-09-18 16:50:35

Local clock offset: 4.702 ms

Remote clock offset: 0.278 ms

Below is generated by plot.py at 2019-09-18 19:22:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 636.21 Mbit/s

95th percentile per-packet one-way delay: 1.096 ms

Loss rate: 0.02%

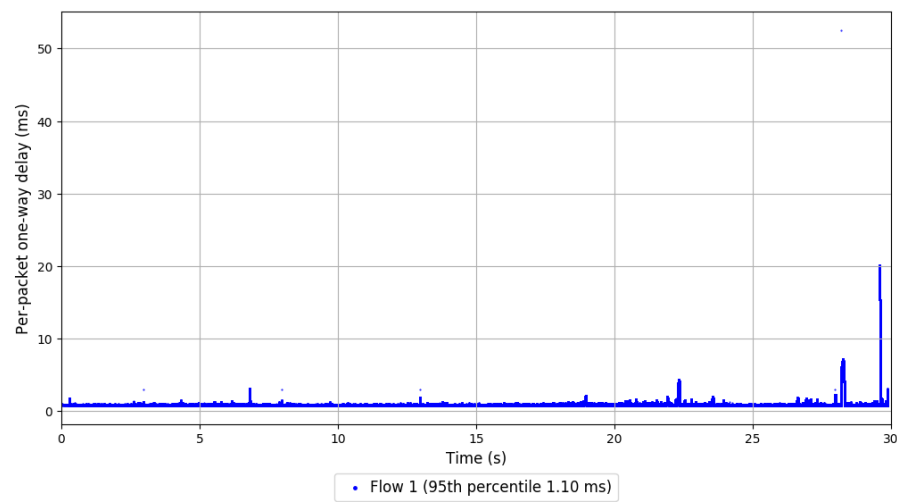
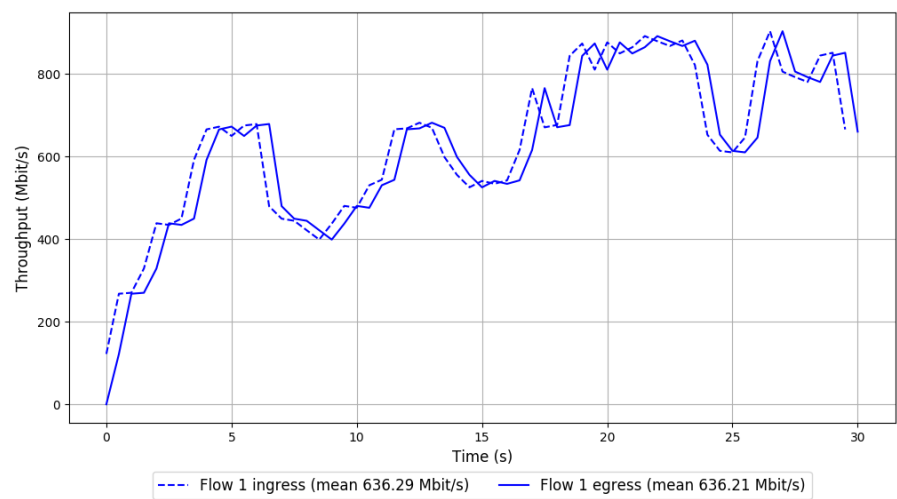
-- Flow 1:

Average throughput: 636.21 Mbit/s

95th percentile per-packet one-way delay: 1.096 ms

Loss rate: 0.02%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-09-18 17:24:25

End at: 2019-09-18 17:24:55

Local clock offset: -0.921 ms

Remote clock offset: 0.209 ms

Below is generated by plot.py at 2019-09-18 19:24:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 733.37 Mbit/s

95th percentile per-packet one-way delay: 1.144 ms

Loss rate: 0.00%

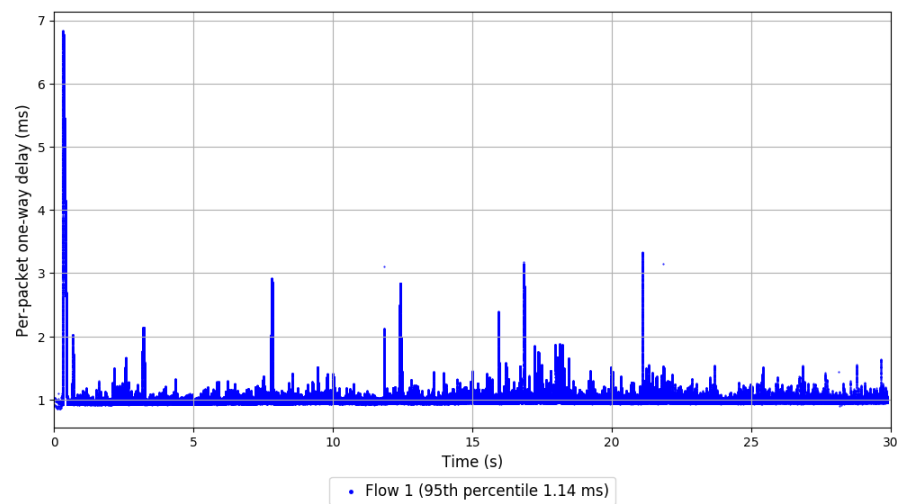
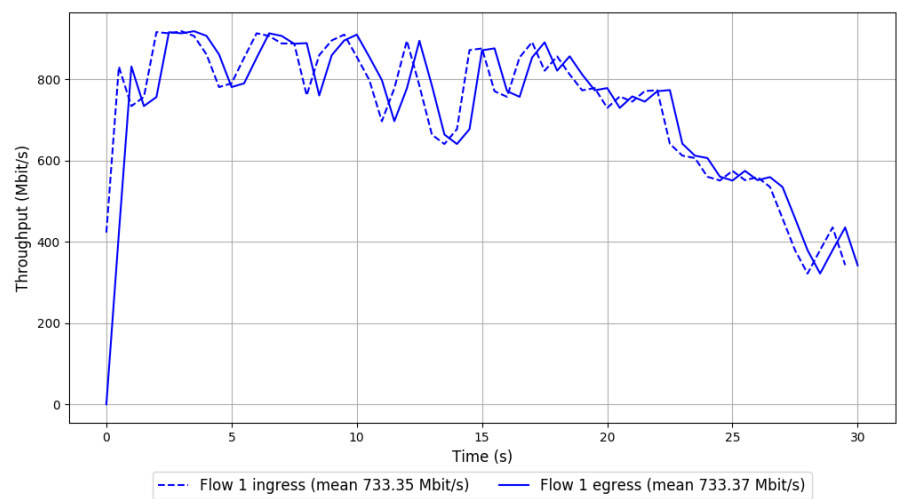
-- Flow 1:

Average throughput: 733.37 Mbit/s

95th percentile per-packet one-way delay: 1.144 ms

Loss rate: 0.00%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-09-18 17:58:12

End at: 2019-09-18 17:58:42

Local clock offset: -0.776 ms

Remote clock offset: 1.197 ms

Below is generated by plot.py at 2019-09-18 19:28:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 908.15 Mbit/s

95th percentile per-packet one-way delay: 44.297 ms

Loss rate: 0.08%

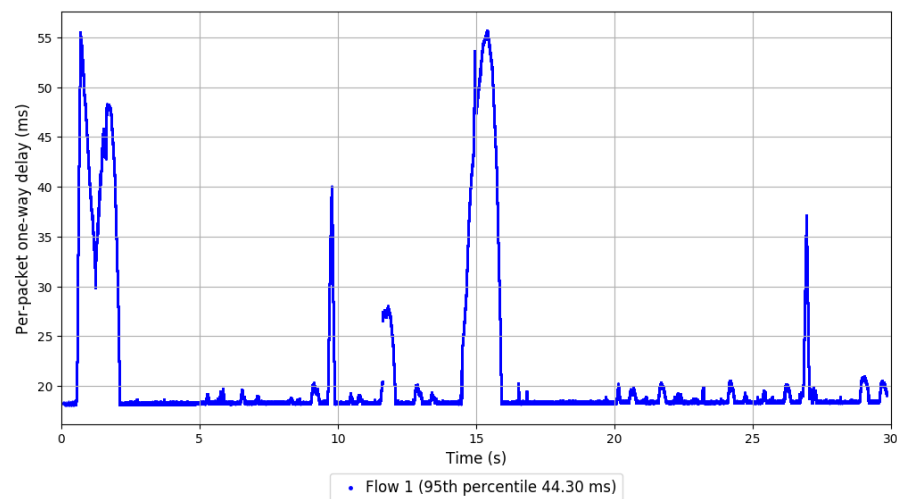
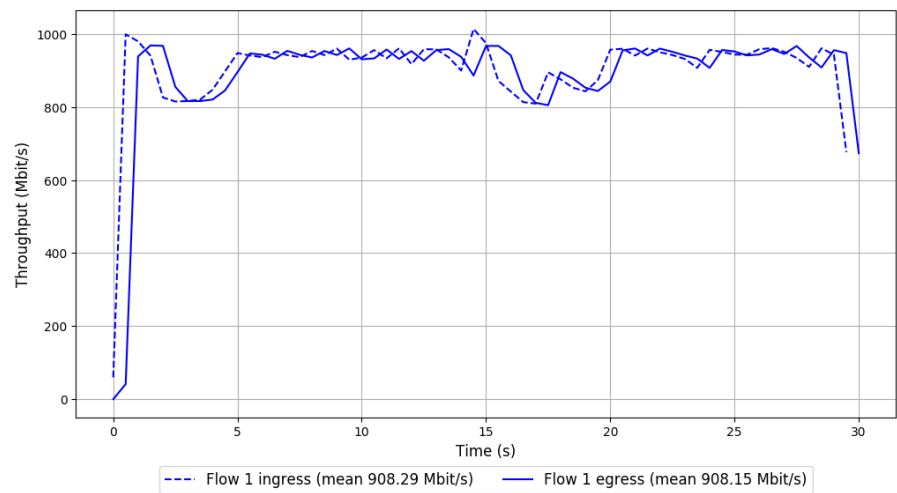
-- Flow 1:

Average throughput: 908.15 Mbit/s

95th percentile per-packet one-way delay: 44.297 ms

Loss rate: 0.08%

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2019-09-18 15:36:05
End at: 2019-09-18 15:36:35
Local clock offset: -0.149 ms
Remote clock offset: -0.164 ms

Below is generated by plot.py at 2019-09-18 19:28:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 307.82 Mbit/s

95th percentile per-packet one-way delay: 1.080 ms

Loss rate: 0.01%

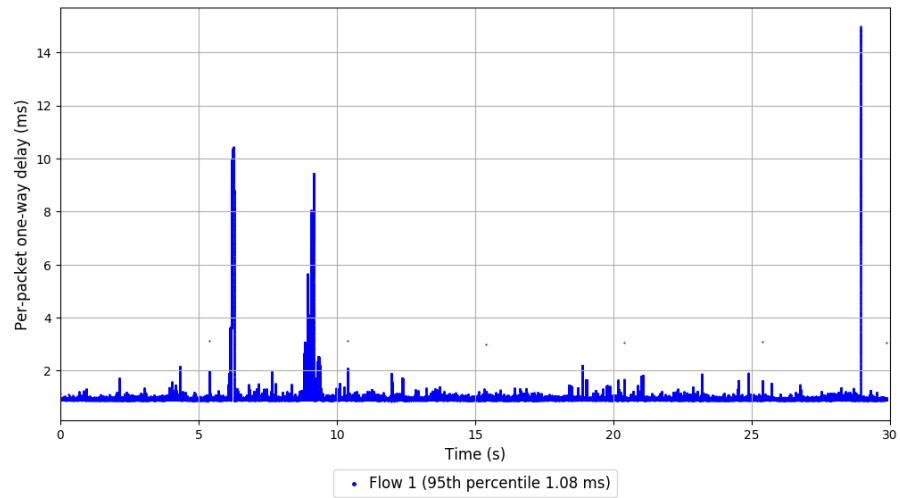
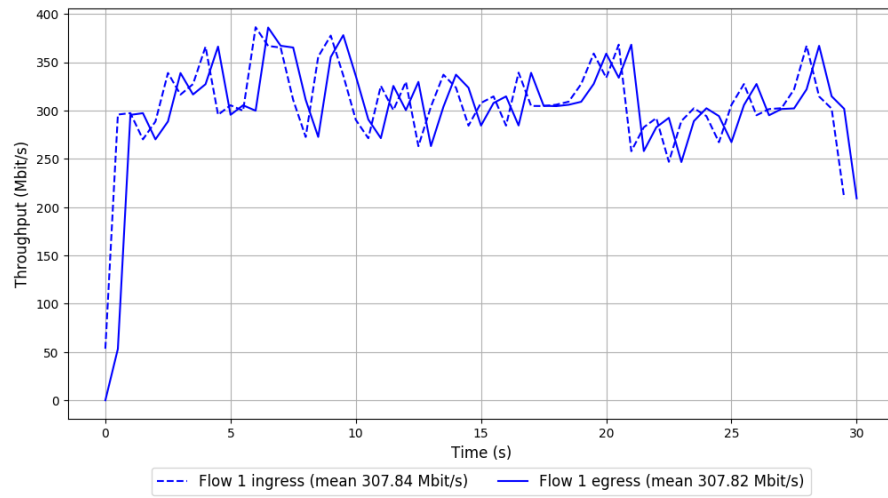
-- Flow 1:

Average throughput: 307.82 Mbit/s

95th percentile per-packet one-way delay: 1.080 ms

Loss rate: 0.01%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-09-18 16:10:24

End at: 2019-09-18 16:10:54

Local clock offset: 2.334 ms

Remote clock offset: 0.769 ms

Below is generated by plot.py at 2019-09-18 19:28:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.58 Mbit/s

95th percentile per-packet one-way delay: 0.896 ms

Loss rate: 0.01%

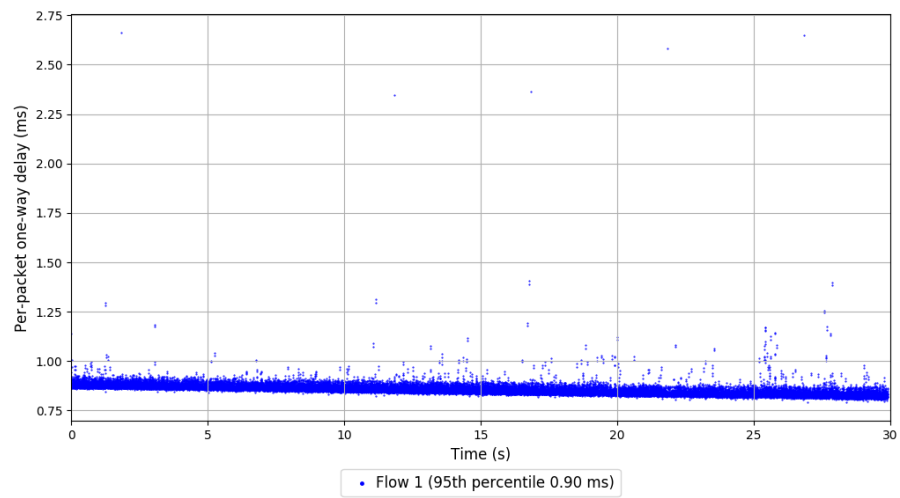
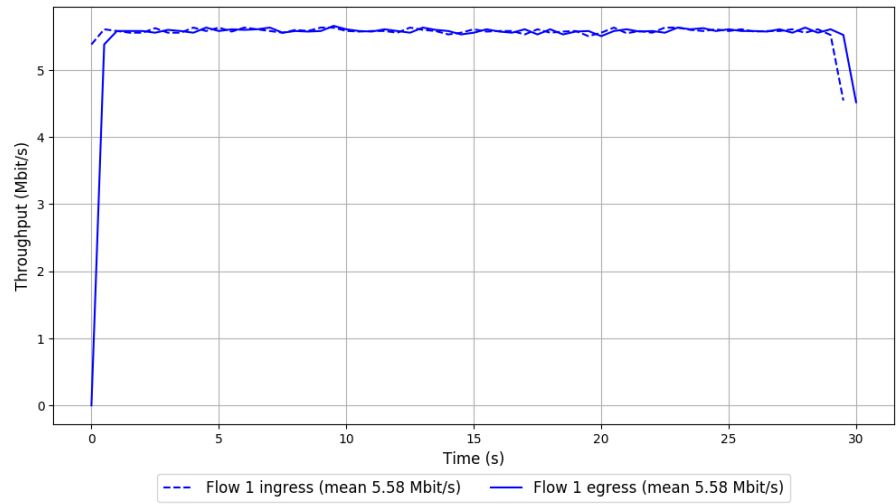
-- Flow 1:

Average throughput: 5.58 Mbit/s

95th percentile per-packet one-way delay: 0.896 ms

Loss rate: 0.01%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-09-18 16:44:29

End at: 2019-09-18 16:44:59

Local clock offset: 4.475 ms

Remote clock offset: 0.292 ms

Below is generated by plot.py at 2019-09-18 19:28:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 300.55 Mbit/s

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

Loss rate: 0.01%

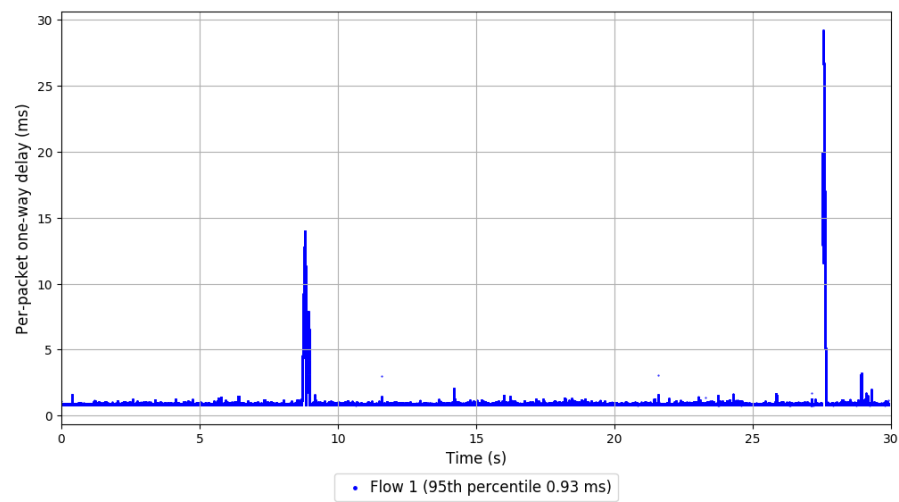
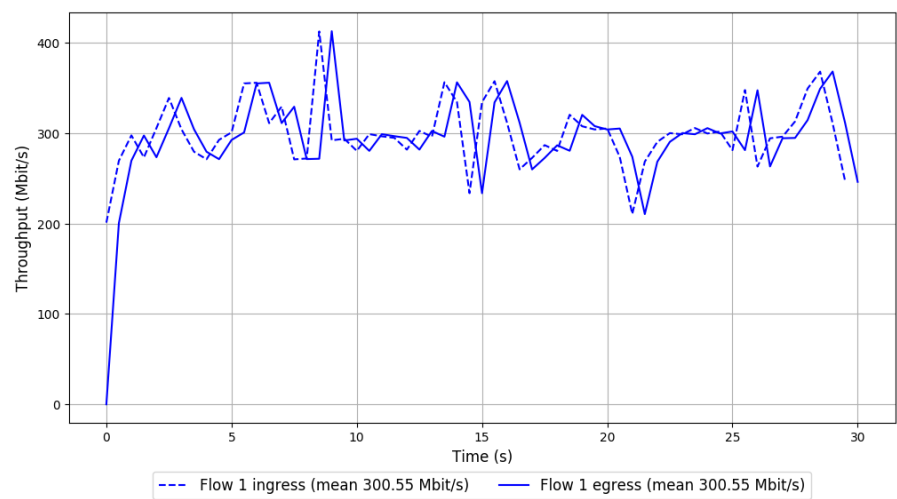
-- Flow 1:

Average throughput: 300.55 Mbit/s

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

Loss rate: 0.01%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-09-18 17:18:37

End at: 2019-09-18 17:19:07

Local clock offset: -0.278 ms

Remote clock offset: 0.408 ms

Below is generated by plot.py at 2019-09-18 19:28:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 332.51 Mbit/s

95th percentile per-packet one-way delay: 18.937 ms

Loss rate: 0.07%

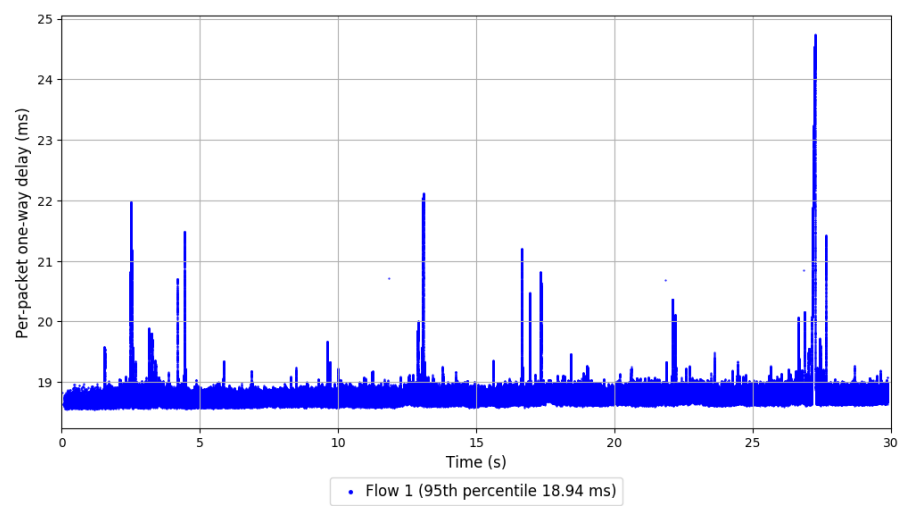
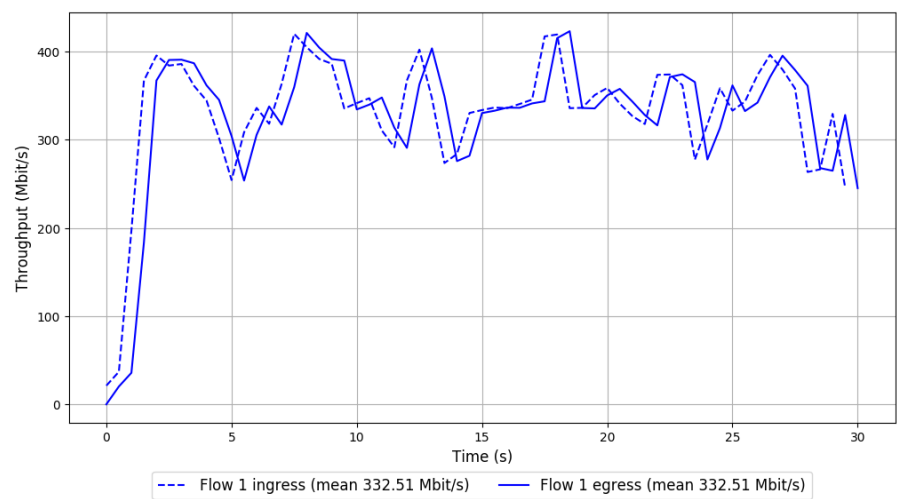
-- Flow 1:

Average throughput: 332.51 Mbit/s

95th percentile per-packet one-way delay: 18.937 ms

Loss rate: 0.07%

Run 4: Report of PCC-Expr — Data Link

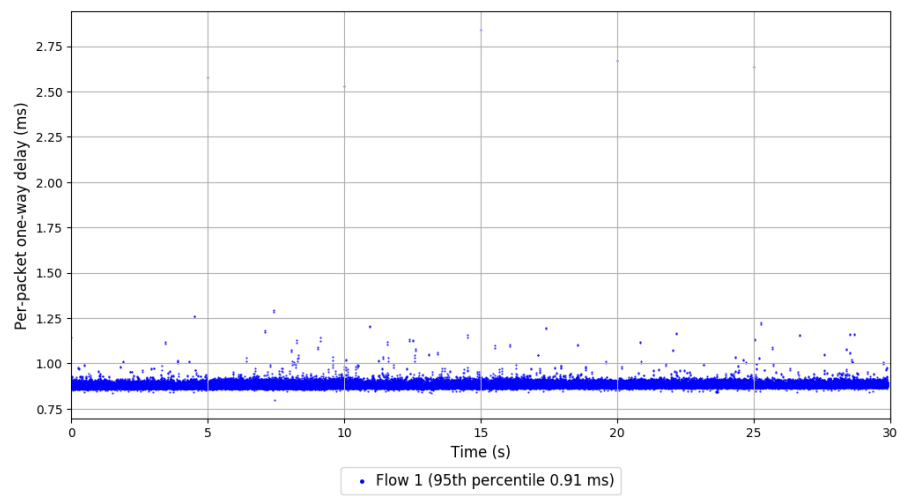
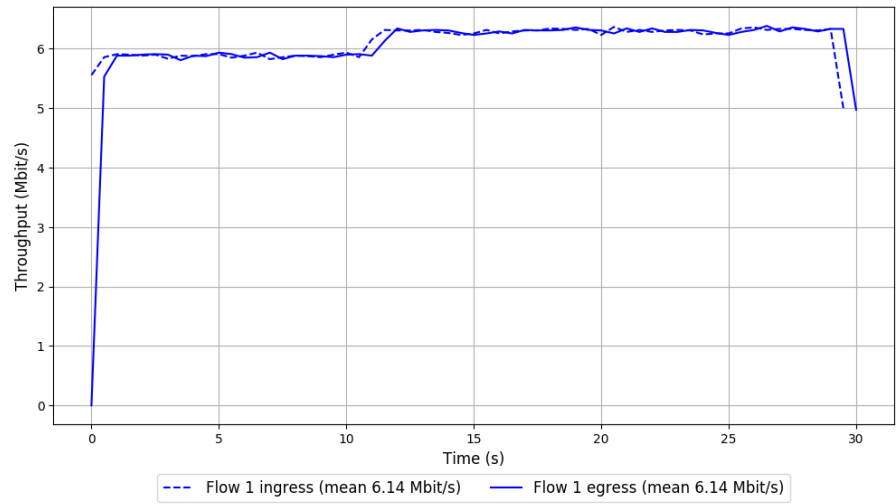


Run 5: Statistics of PCC-Expr

Start at: 2019-09-18 17:52:48
End at: 2019-09-18 17:53:18
Local clock offset: -0.669 ms
Remote clock offset: -0.004 ms

Below is generated by plot.py at 2019-09-18 19:28:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.14 Mbit/s
95th percentile per-packet one-way delay: 0.913 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 6.14 Mbit/s
95th percentile per-packet one-way delay: 0.913 ms
Loss rate: 0.01%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-09-18 15:31:40

End at: 2019-09-18 15:32:10

Local clock offset: -0.286 ms

Remote clock offset: -0.14 ms

Below is generated by plot.py at 2019-09-18 19:28:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.61 Mbit/s

95th percentile per-packet one-way delay: 19.401 ms

Loss rate: 0.06%

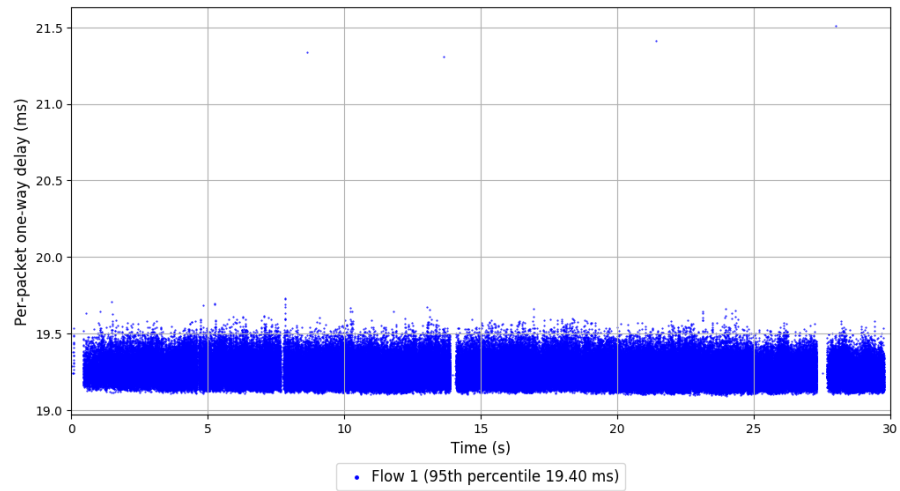
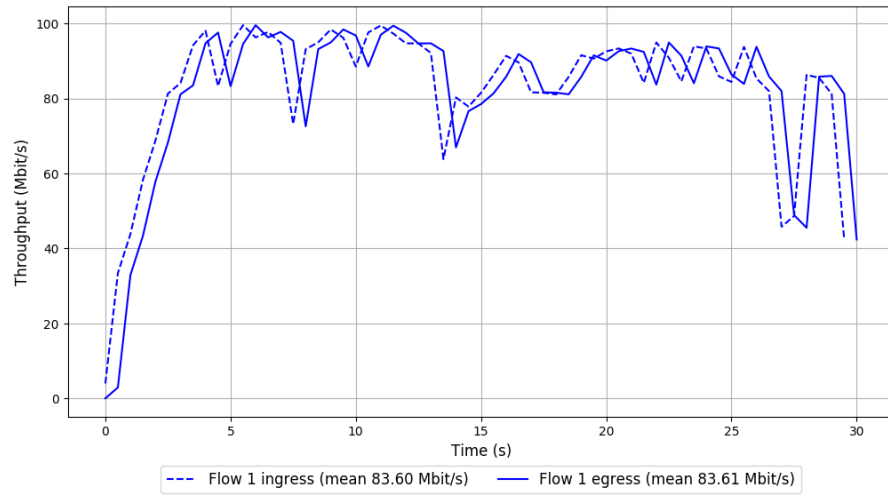
-- Flow 1:

Average throughput: 83.61 Mbit/s

95th percentile per-packet one-way delay: 19.401 ms

Loss rate: 0.06%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-09-18 16:06:01

End at: 2019-09-18 16:06:31

Local clock offset: 1.496 ms

Remote clock offset: 0.724 ms

Below is generated by plot.py at 2019-09-18 19:28:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.48 Mbit/s

95th percentile per-packet one-way delay: 18.849 ms

Loss rate: 0.07%

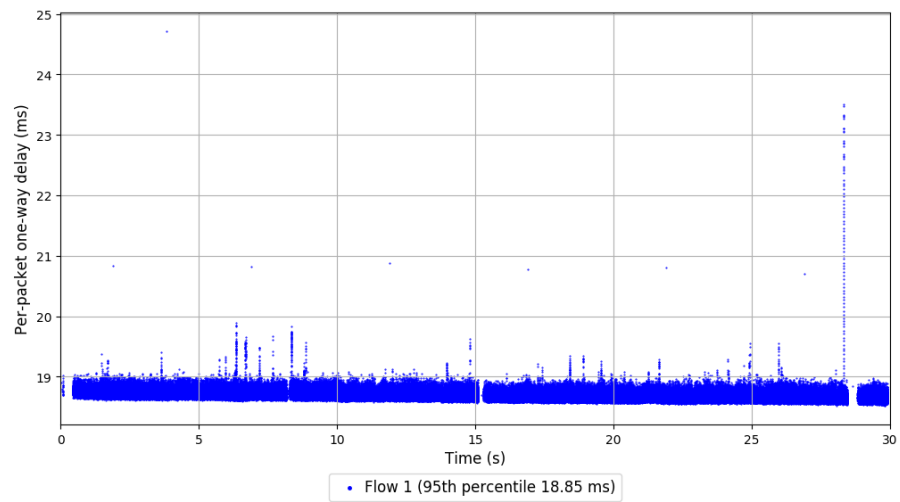
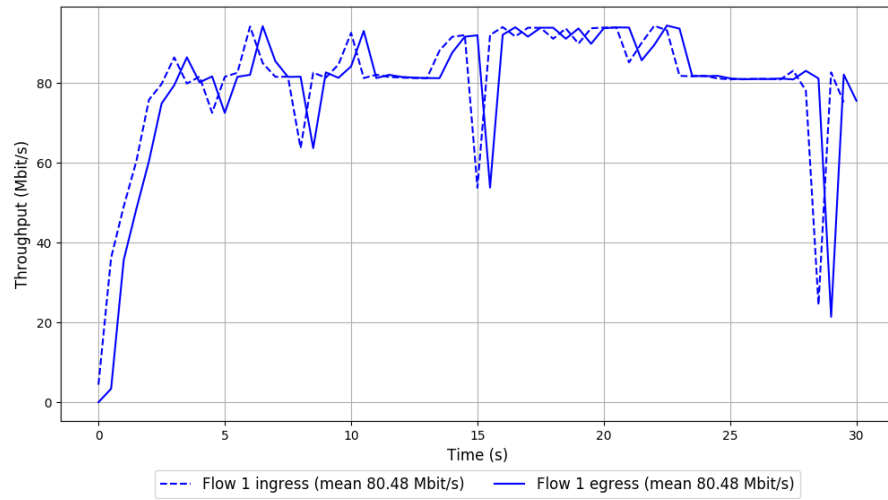
-- Flow 1:

Average throughput: 80.48 Mbit/s

95th percentile per-packet one-way delay: 18.849 ms

Loss rate: 0.07%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-09-18 16:40:05

End at: 2019-09-18 16:40:35

Local clock offset: 4.313 ms

Remote clock offset: 0.291 ms

Below is generated by plot.py at 2019-09-18 19:28:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.18 Mbit/s

95th percentile per-packet one-way delay: 0.867 ms

Loss rate: 0.01%

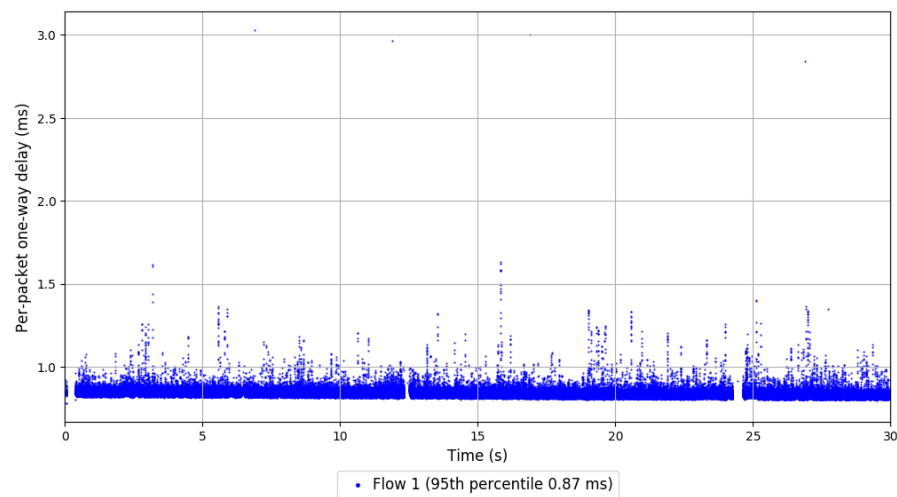
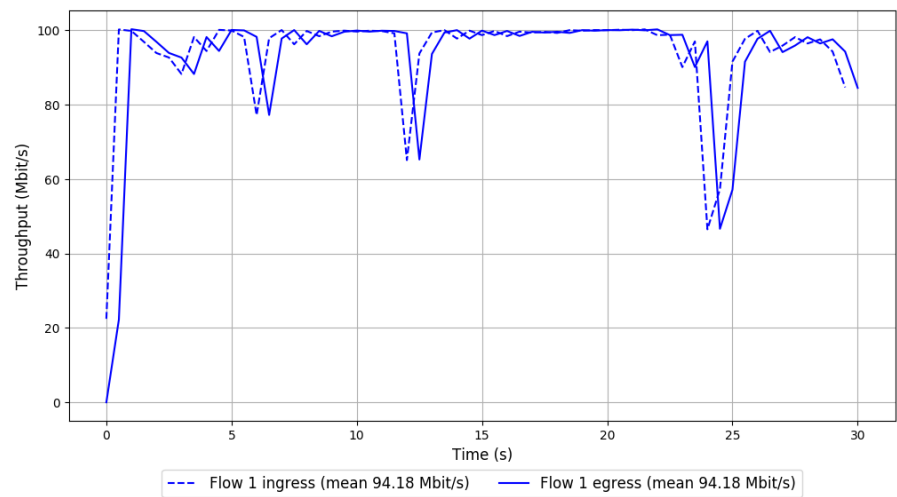
-- Flow 1:

Average throughput: 94.18 Mbit/s

95th percentile per-packet one-way delay: 0.867 ms

Loss rate: 0.01%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-09-18 17:14:13

End at: 2019-09-18 17:14:43

Local clock offset: 0.363 ms

Remote clock offset: 0.295 ms

Below is generated by plot.py at 2019-09-18 19:28:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.91 Mbit/s

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

Loss rate: 0.01%

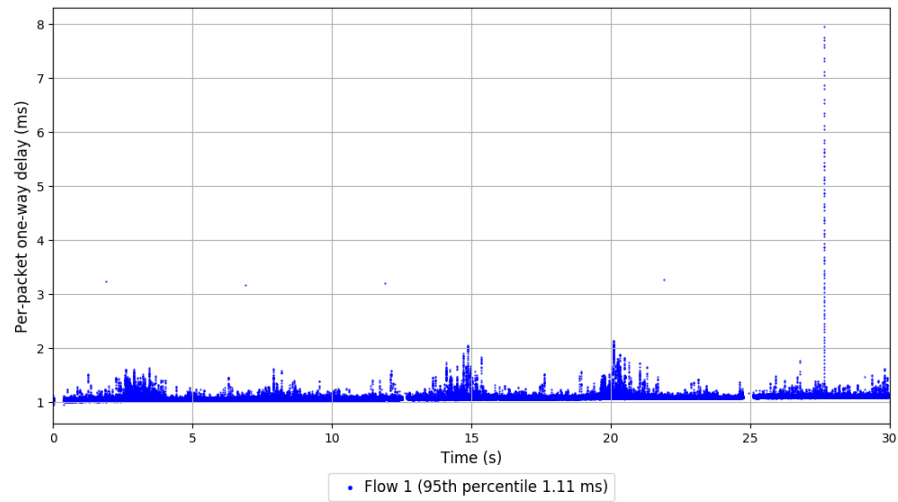
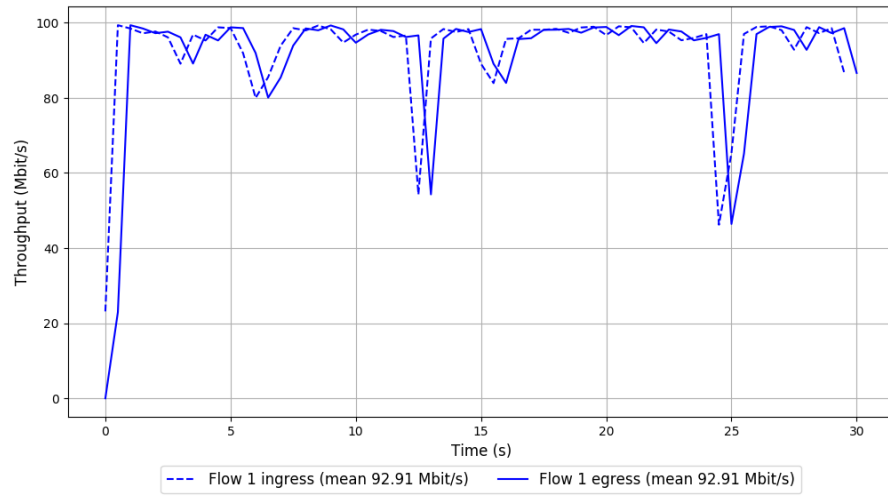
-- Flow 1:

Average throughput: 92.91 Mbit/s

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

Loss rate: 0.01%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-09-18 17:48:24

End at: 2019-09-18 17:48:54

Local clock offset: -0.568 ms

Remote clock offset: -0.056 ms

Below is generated by plot.py at 2019-09-18 19:28:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.67 Mbit/s

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

Loss rate: 0.00%

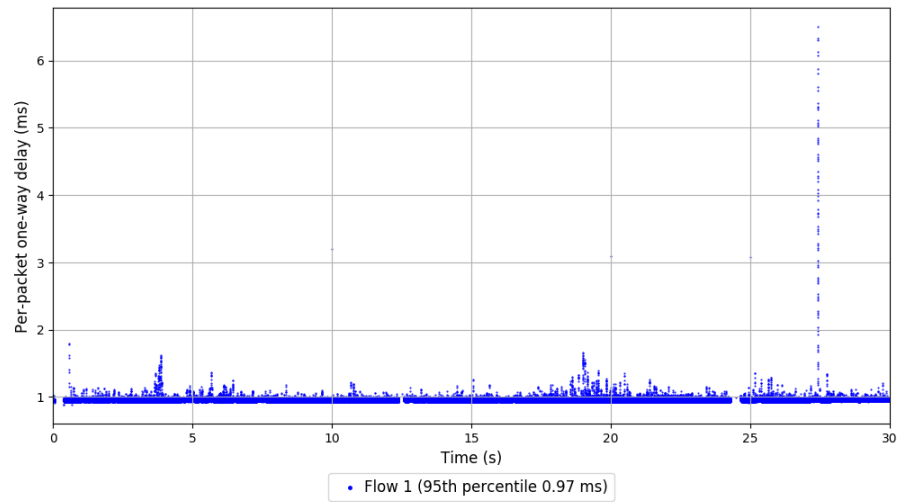
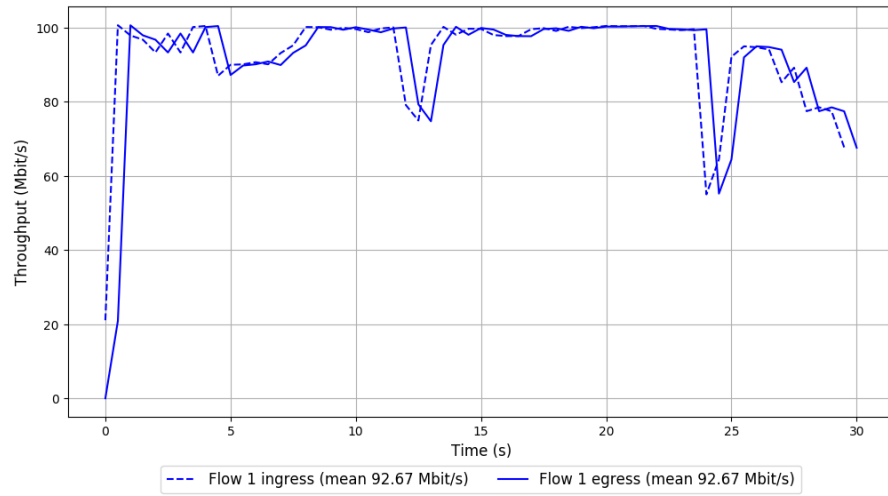
-- Flow 1:

Average throughput: 92.67 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link

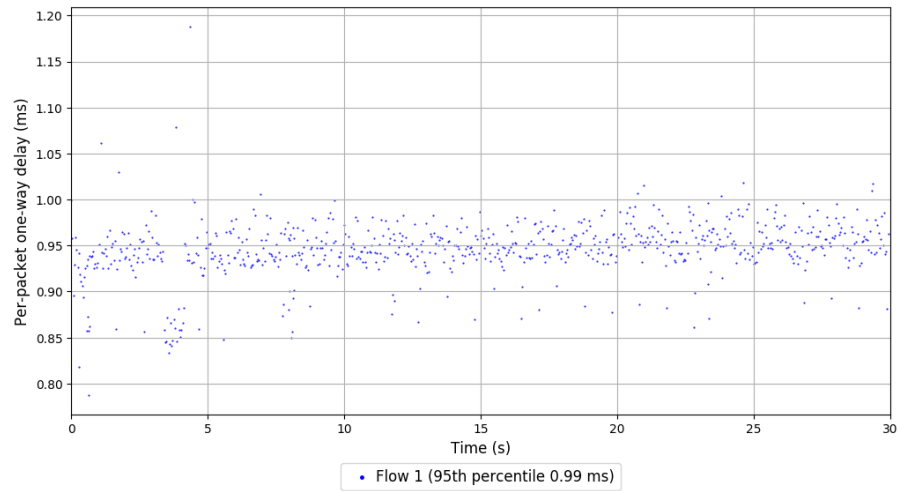
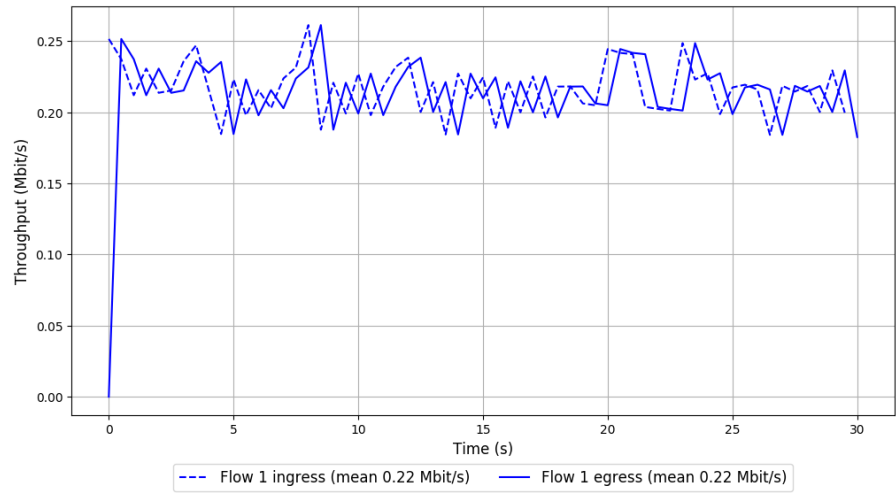


```
Run 1: Statistics of SCReAM

Start at: 2019-09-18 15:47:25
End at: 2019-09-18 15:47:55
Local clock offset: -0.06 ms
Remote clock offset: 0.293 ms

# Below is generated by plot.py at 2019-09-18 19:28:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.986 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.986 ms
Loss rate: 0.13%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-09-18 16:21:16

End at: 2019-09-18 16:21:46

Local clock offset: 3.42 ms

Remote clock offset: 0.377 ms

Below is generated by plot.py at 2019-09-18 19:28:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 0.993 ms

Loss rate: 0.00%

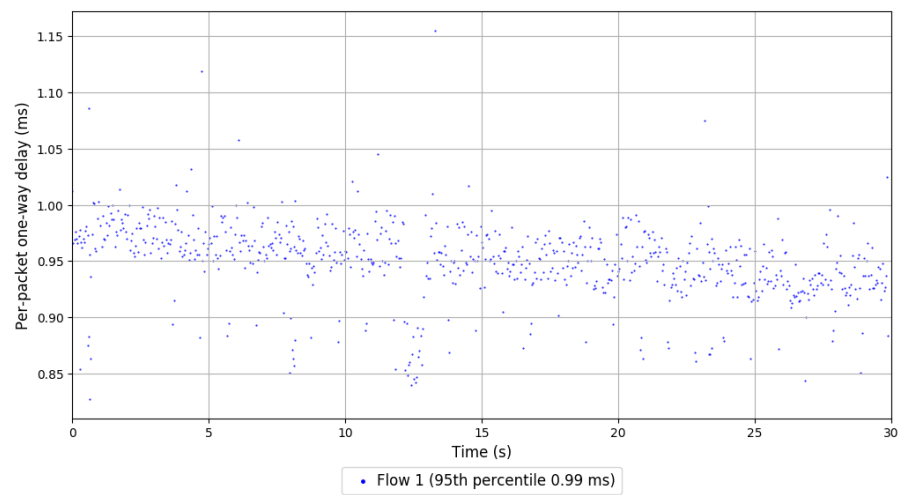
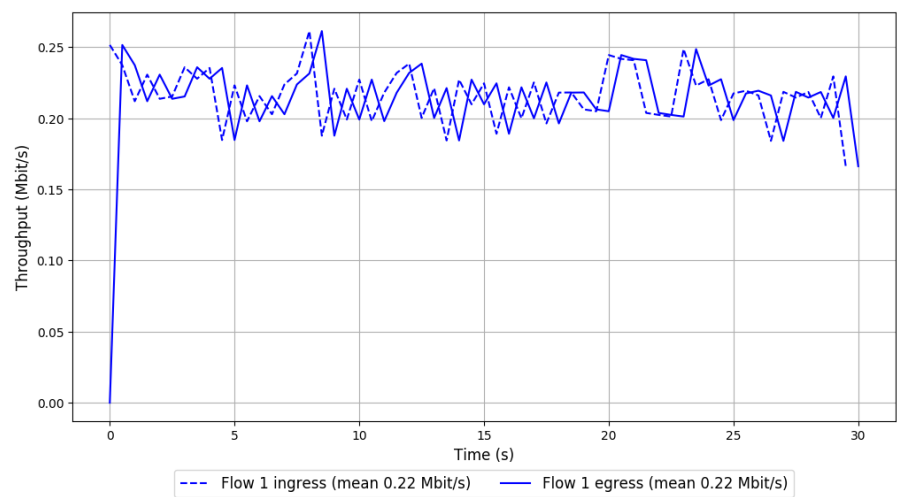
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 0.993 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-09-18 16:55:37

End at: 2019-09-18 16:56:07

Local clock offset: 4.869 ms

Remote clock offset: 0.227 ms

Below is generated by plot.py at 2019-09-18 19:28:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.13%

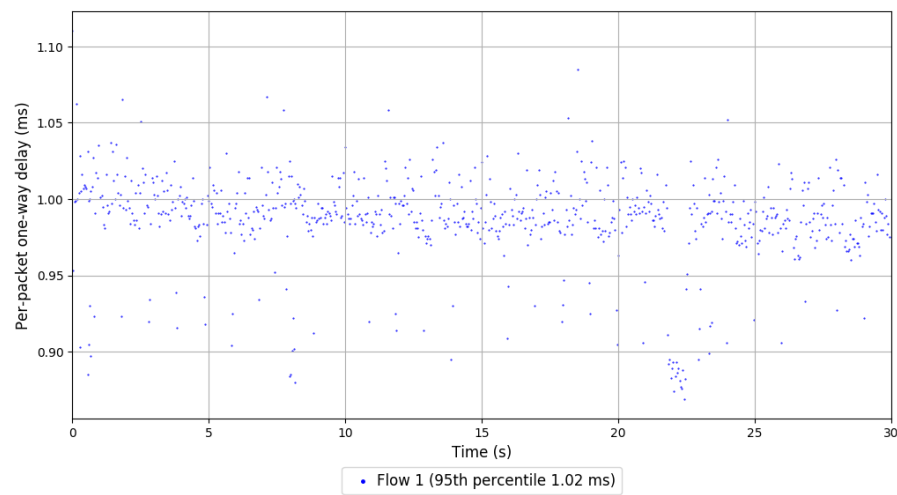
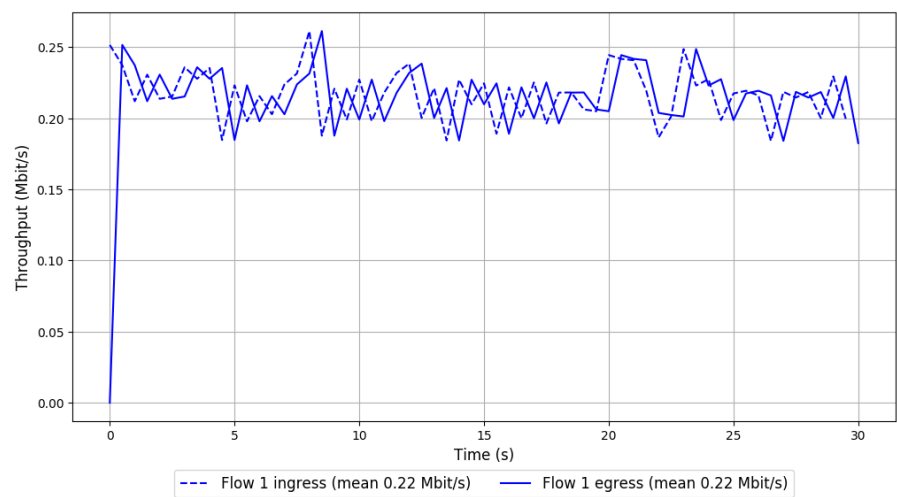
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.13%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-09-18 17:29:59

End at: 2019-09-18 17:30:29

Local clock offset: -1.36 ms

Remote clock offset: 0.176 ms

Below is generated by plot.py at 2019-09-18 19:28:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.036 ms

Loss rate: 0.00%

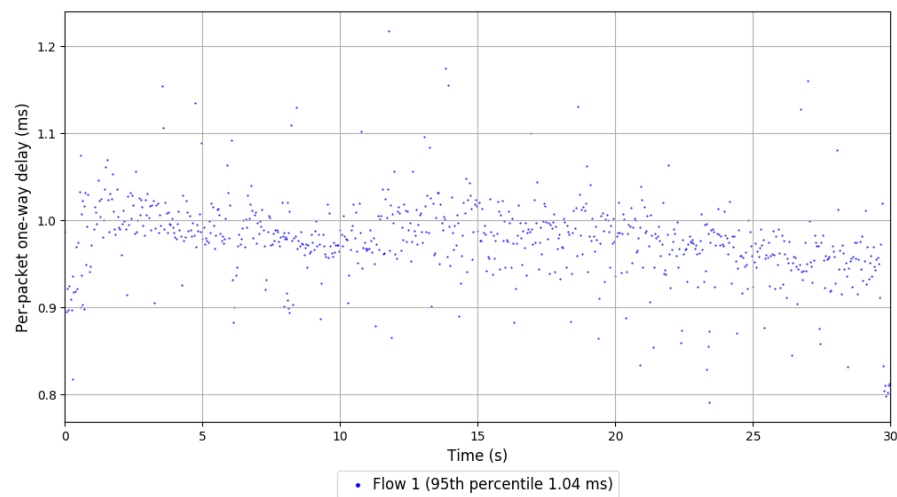
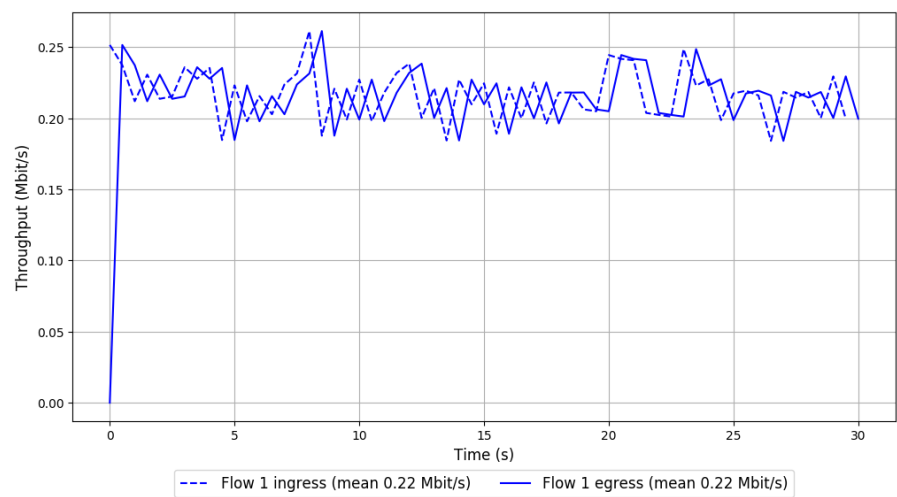
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.036 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-09-18 18:04:01

End at: 2019-09-18 18:04:31

Local clock offset: -0.529 ms

Remote clock offset: 2.429 ms

Below is generated by plot.py at 2019-09-18 19:28:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.529 ms

Loss rate: 0.00%

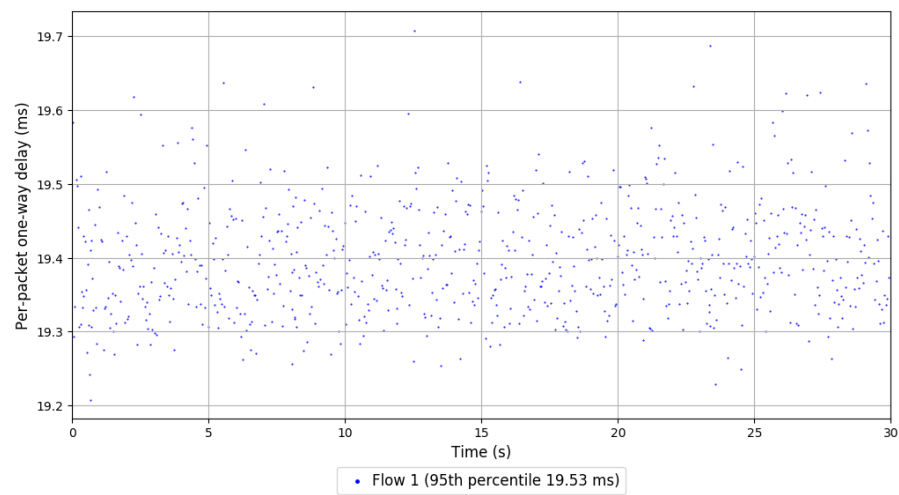
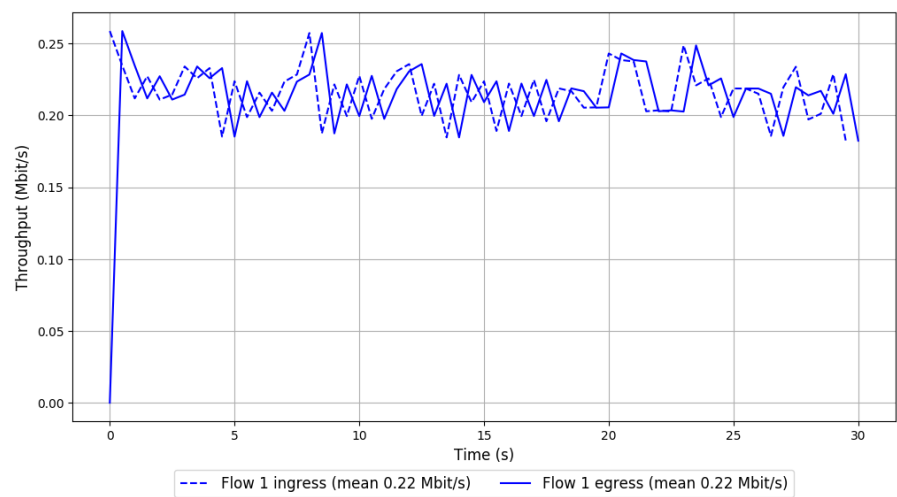
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.529 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-09-18 16:03:09

End at: 2019-09-18 16:03:39

Local clock offset: 0.718 ms

Remote clock offset: 0.628 ms

Below is generated by plot.py at 2019-09-18 19:28:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.20 Mbit/s

95th percentile per-packet one-way delay: 0.758 ms

Loss rate: 0.03%

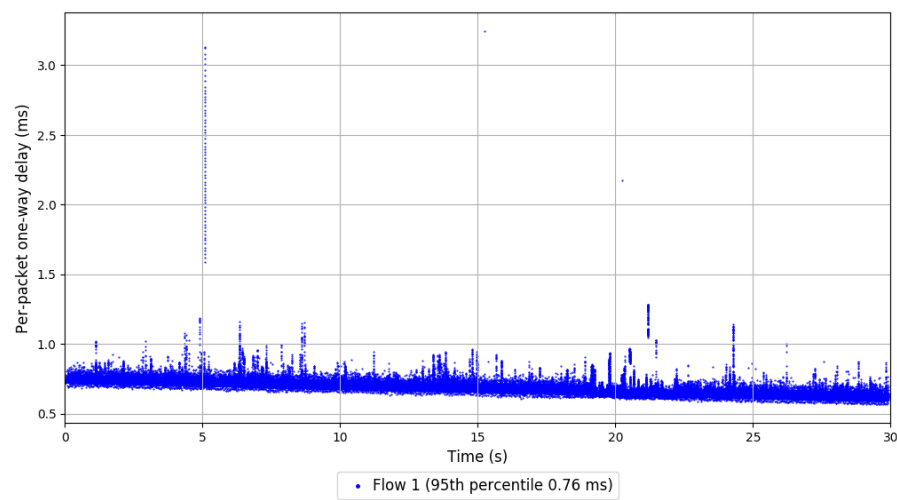
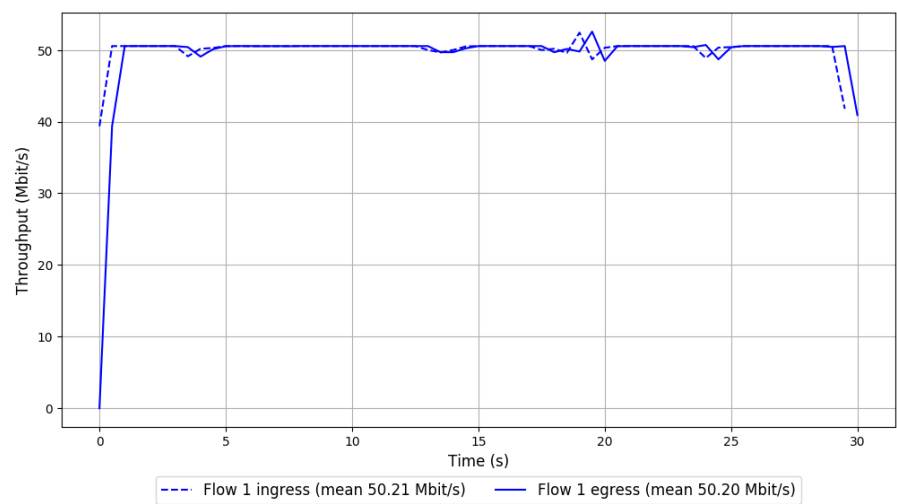
-- Flow 1:

Average throughput: 50.20 Mbit/s

95th percentile per-packet one-way delay: 0.758 ms

Loss rate: 0.03%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-09-18 16:37:14

End at: 2019-09-18 16:37:44

Local clock offset: 4.175 ms

Remote clock offset: 0.236 ms

Below is generated by plot.py at 2019-09-18 19:28:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.23 Mbit/s

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

Loss rate: 0.00%

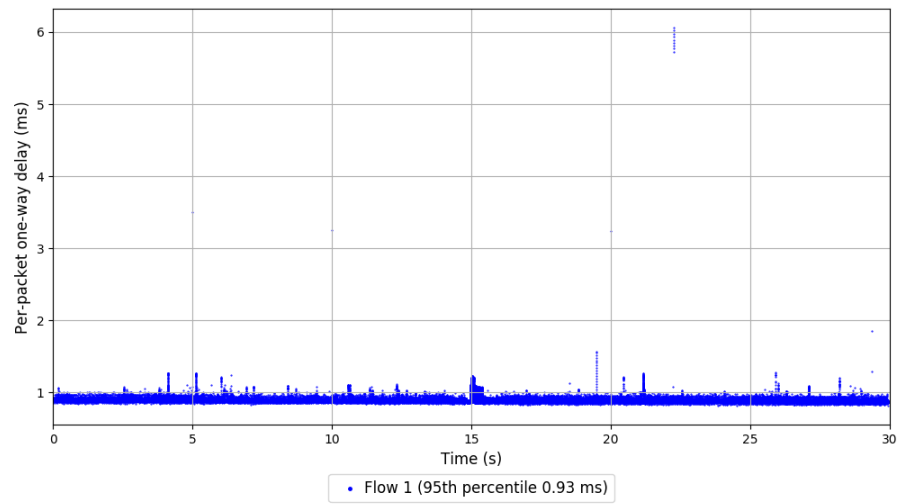
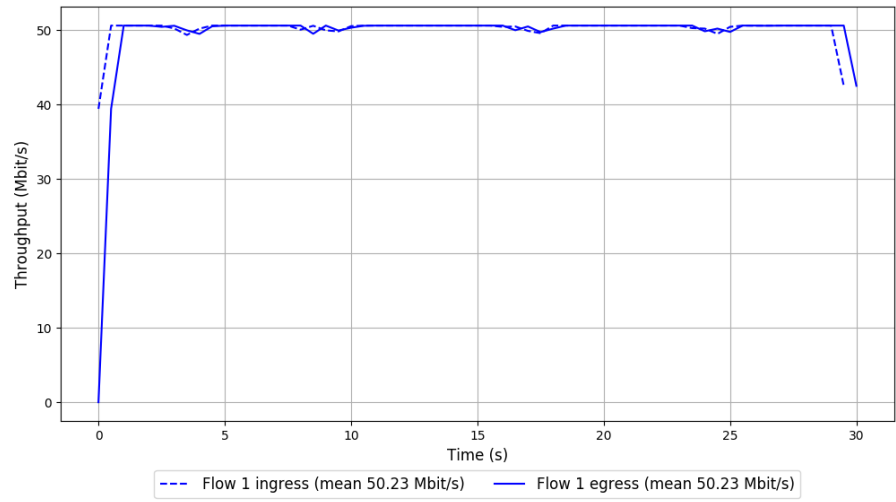
-- Flow 1:

Average throughput: 50.23 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-09-18 17:11:21

End at: 2019-09-18 17:11:51

Local clock offset: 0.941 ms

Remote clock offset: 0.379 ms

Below is generated by plot.py at 2019-09-18 19:28:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.02 Mbit/s

95th percentile per-packet one-way delay: 19.209 ms

Loss rate: 0.14%

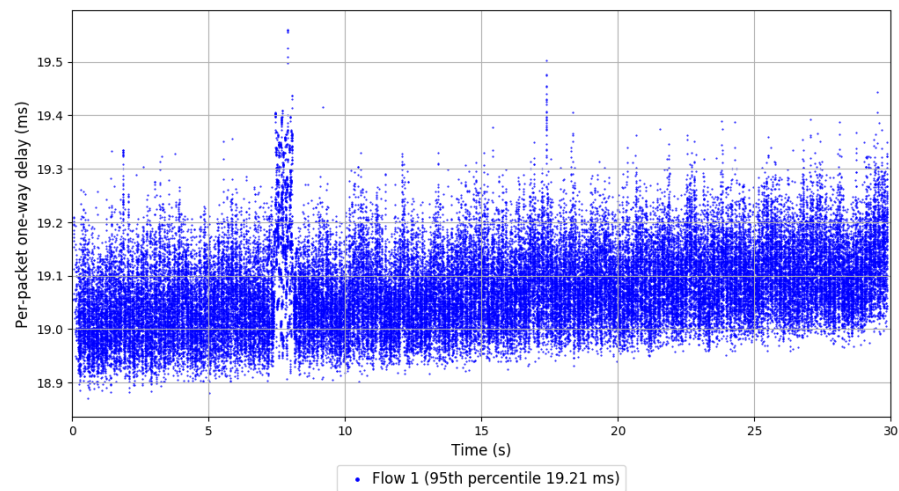
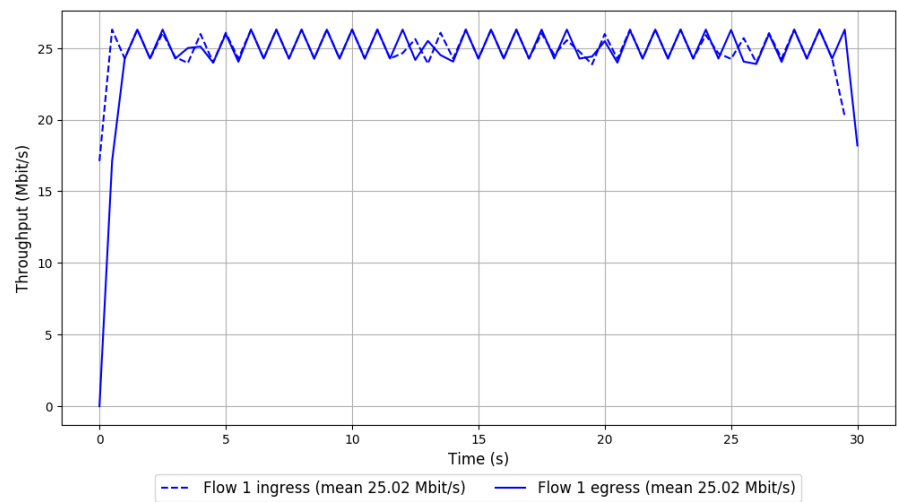
-- Flow 1:

Average throughput: 25.02 Mbit/s

95th percentile per-packet one-way delay: 19.209 ms

Loss rate: 0.14%

Run 3: Report of Sprout — Data Link

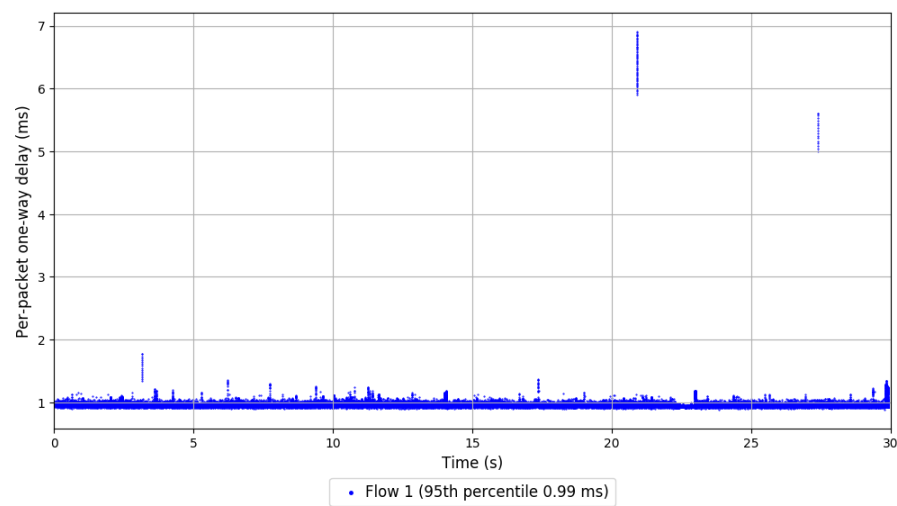
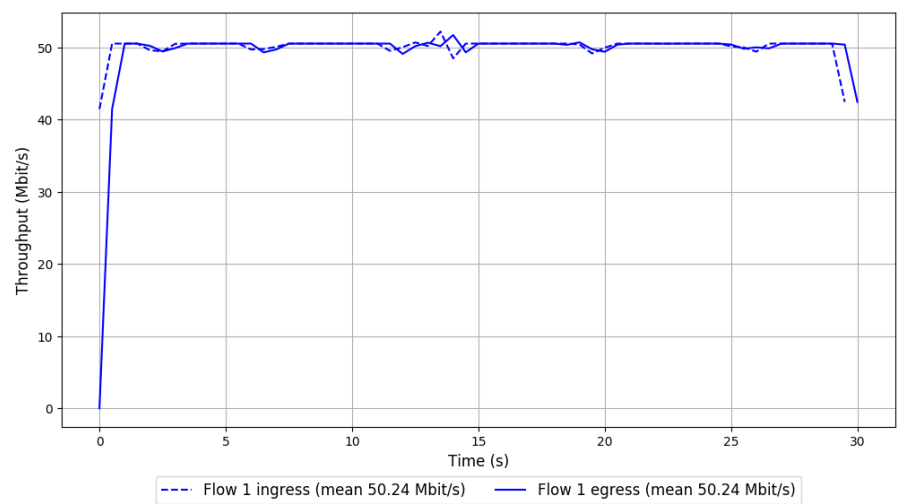


Run 4: Statistics of Sprout

Start at: 2019-09-18 17:45:36
End at: 2019-09-18 17:46:06
Local clock offset: -0.535 ms
Remote clock offset: 0.011 ms

Below is generated by plot.py at 2019-09-18 19:28:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.24 Mbit/s
95th percentile per-packet one-way delay: 0.990 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.24 Mbit/s
95th percentile per-packet one-way delay: 0.990 ms
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-09-18 18:19:17

End at: 2019-09-18 18:19:47

Local clock offset: -0.249 ms

Remote clock offset: 3.8 ms

Below is generated by plot.py at 2019-09-18 19:28:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.99 Mbit/s

95th percentile per-packet one-way delay: 18.764 ms

Loss rate: 0.14%

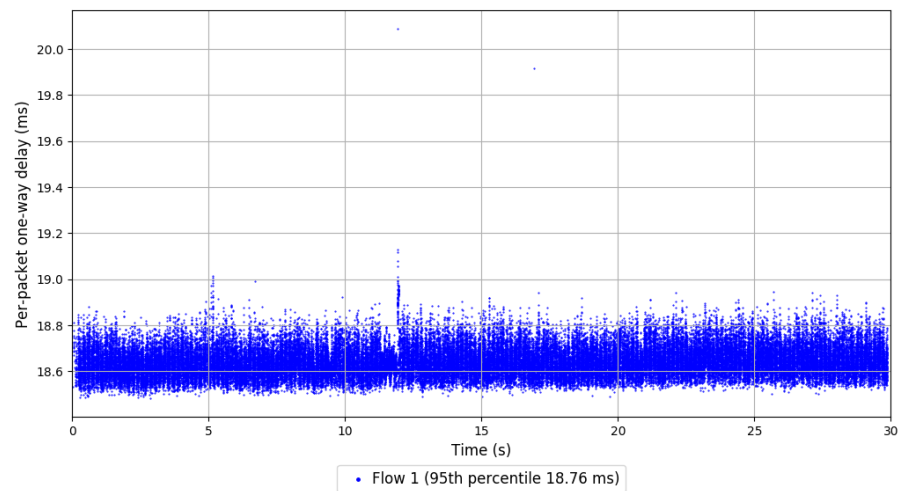
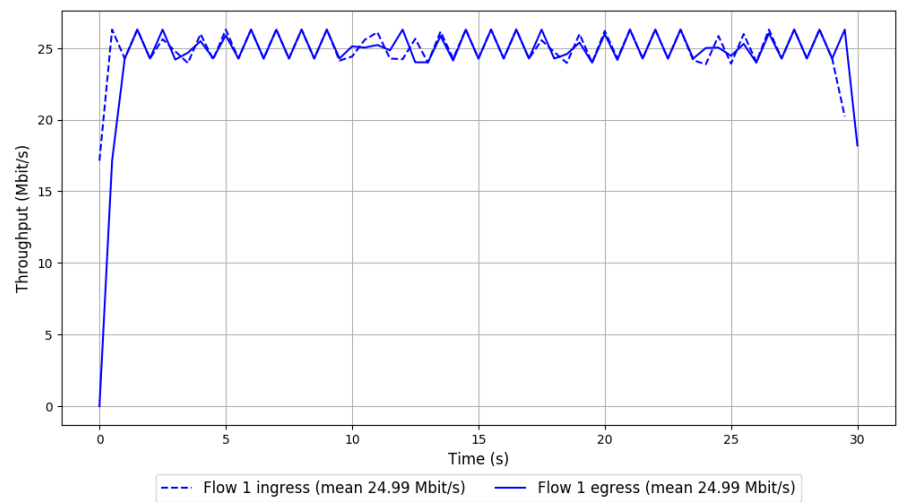
-- Flow 1:

Average throughput: 24.99 Mbit/s

95th percentile per-packet one-way delay: 18.764 ms

Loss rate: 0.14%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-09-18 15:53:02

End at: 2019-09-18 15:53:32

Local clock offset: -0.119 ms

Remote clock offset: 0.437 ms

Below is generated by plot.py at 2019-09-18 19:29:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 244.40 Mbit/s

95th percentile per-packet one-way delay: 18.744 ms

Loss rate: 0.07%

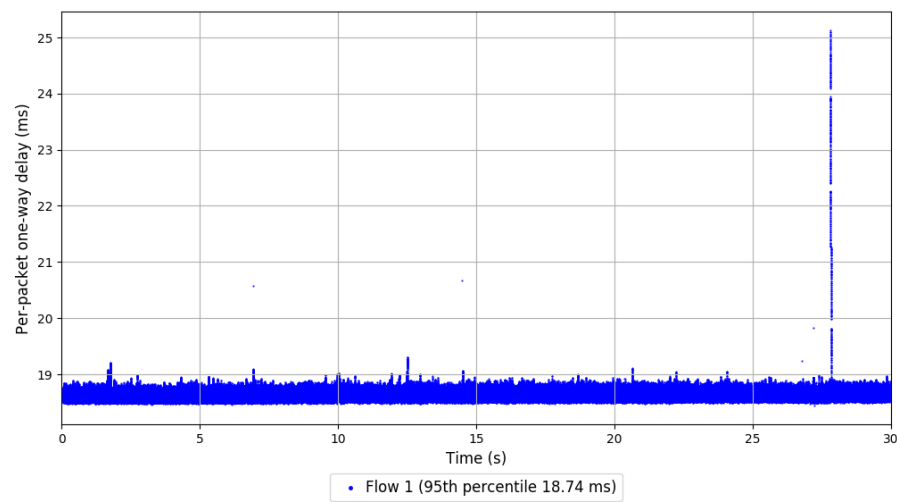
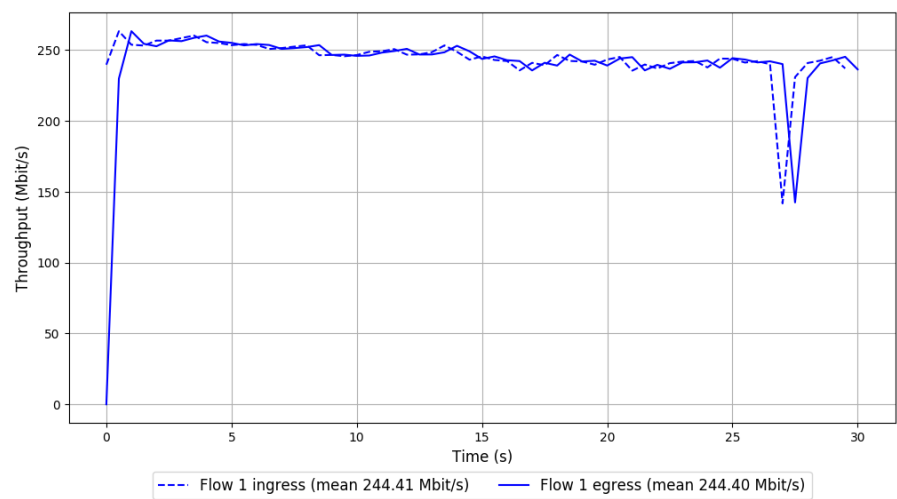
-- Flow 1:

Average throughput: 244.40 Mbit/s

95th percentile per-packet one-way delay: 18.744 ms

Loss rate: 0.07%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-09-18 16:27:01

End at: 2019-09-18 16:27:31

Local clock offset: 3.756 ms

Remote clock offset: 0.282 ms

Below is generated by plot.py at 2019-09-18 19:29:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 241.88 Mbit/s

95th percentile per-packet one-way delay: 18.334 ms

Loss rate: 0.06%

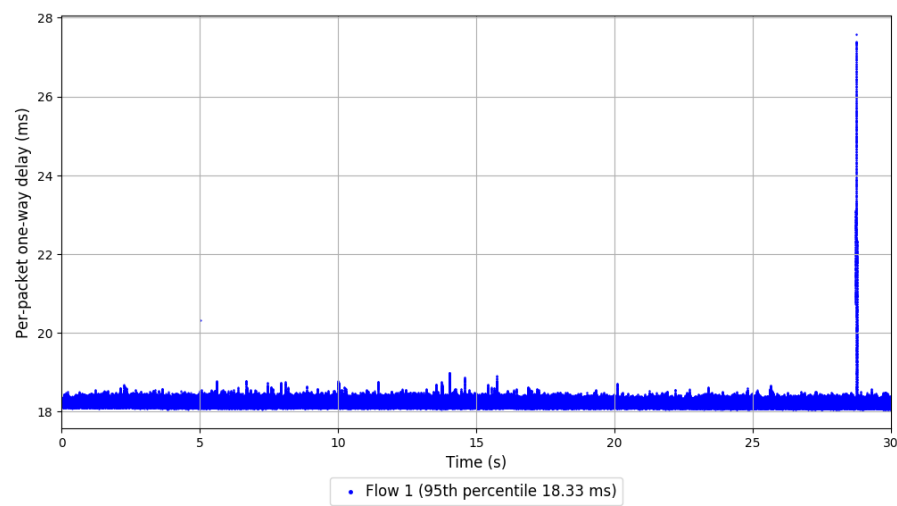
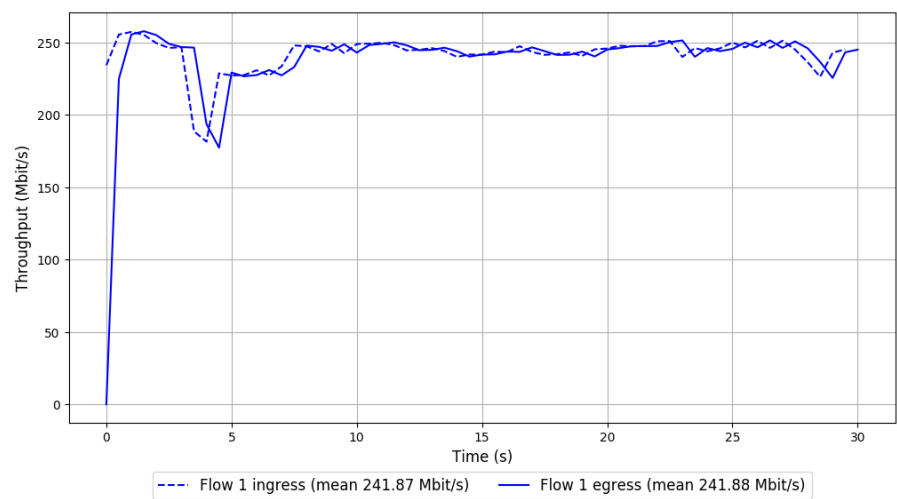
-- Flow 1:

Average throughput: 241.88 Mbit/s

95th percentile per-packet one-way delay: 18.334 ms

Loss rate: 0.06%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-09-18 17:01:19

End at: 2019-09-18 17:01:49

Local clock offset: 4.533 ms

Remote clock offset: 0.329 ms

Below is generated by plot.py at 2019-09-18 19:29:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 246.22 Mbit/s

95th percentile per-packet one-way delay: 20.335 ms

Loss rate: 0.07%

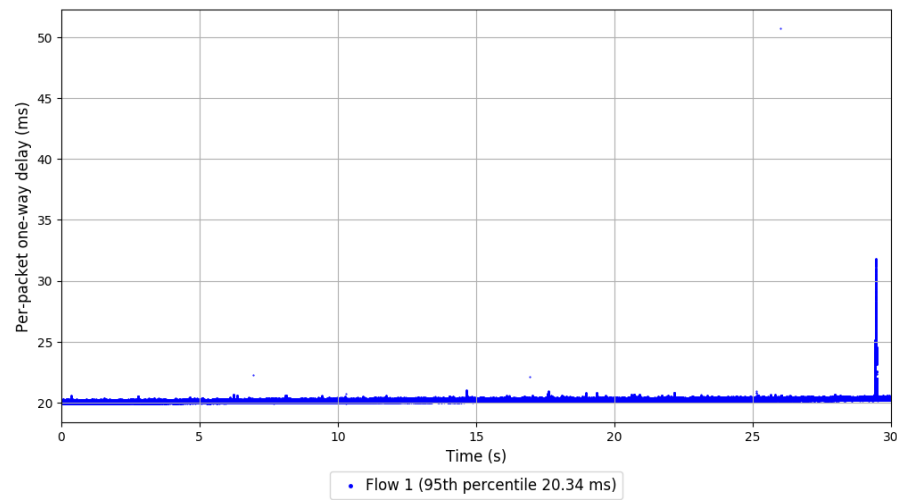
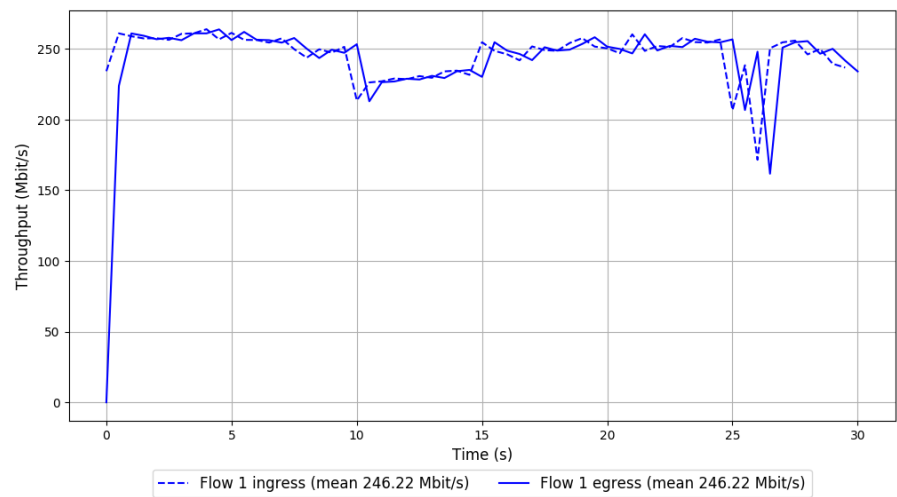
-- Flow 1:

Average throughput: 246.22 Mbit/s

95th percentile per-packet one-way delay: 20.335 ms

Loss rate: 0.07%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-09-18 17:35:42

End at: 2019-09-18 17:36:12

Local clock offset: -0.831 ms

Remote clock offset: 0.131 ms

Below is generated by plot.py at 2019-09-18 19:30:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 246.20 Mbit/s

95th percentile per-packet one-way delay: 18.967 ms

Loss rate: 0.06%

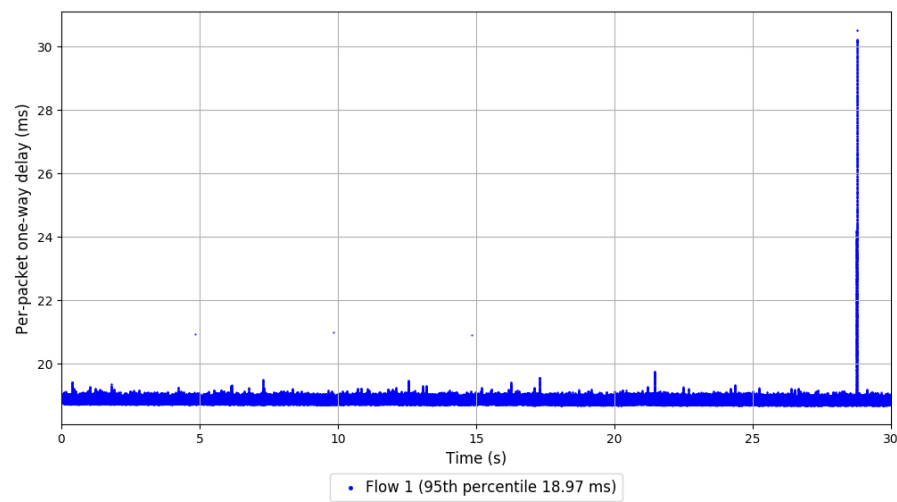
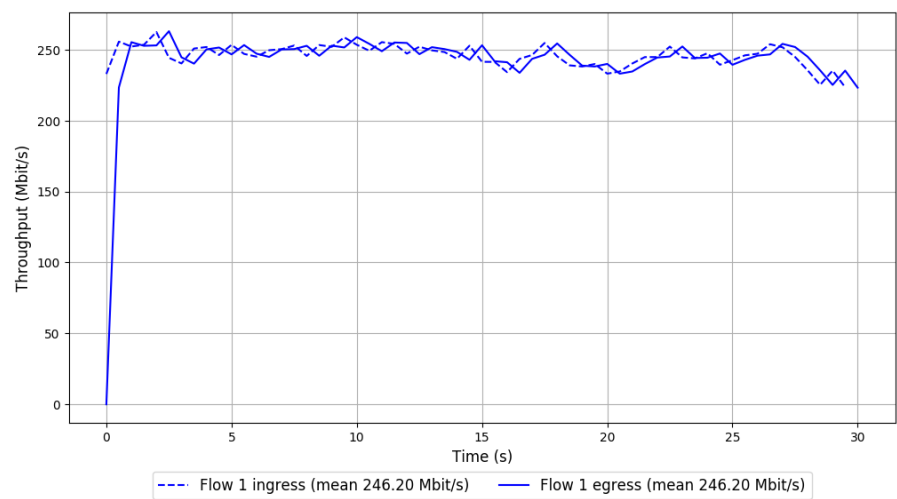
-- Flow 1:

Average throughput: 246.20 Mbit/s

95th percentile per-packet one-way delay: 18.967 ms

Loss rate: 0.06%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-09-18 18:09:37

End at: 2019-09-18 18:10:07

Local clock offset: -0.305 ms

Remote clock offset: 3.093 ms

Below is generated by plot.py at 2019-09-18 19:30:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.66 Mbit/s

95th percentile per-packet one-way delay: 0.894 ms

Loss rate: 0.00%

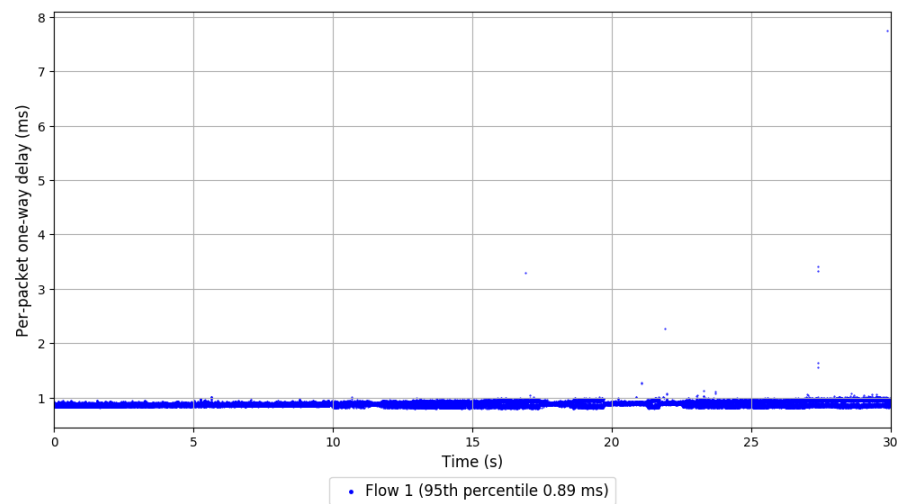
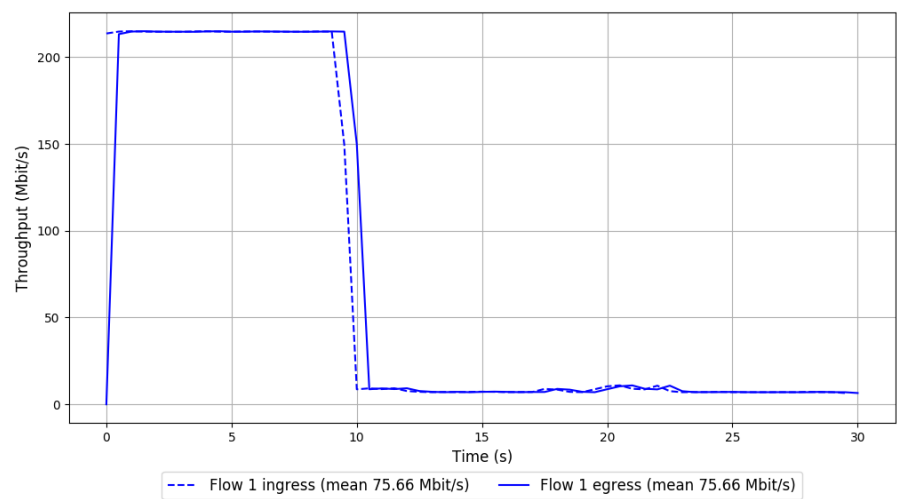
-- Flow 1:

Average throughput: 75.66 Mbit/s

95th percentile per-packet one-way delay: 0.894 ms

Loss rate: 0.00%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-09-18 16:01:39

End at: 2019-09-18 16:02:09

Local clock offset: 0.317 ms

Remote clock offset: 0.561 ms

Below is generated by plot.py at 2019-09-18 19:31:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 524.26 Mbit/s

95th percentile per-packet one-way delay: 19.100 ms

Loss rate: 0.05%

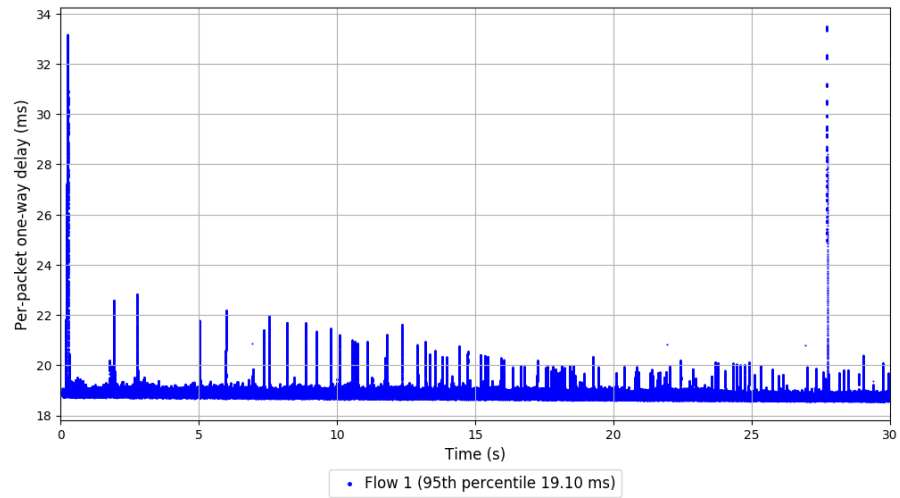
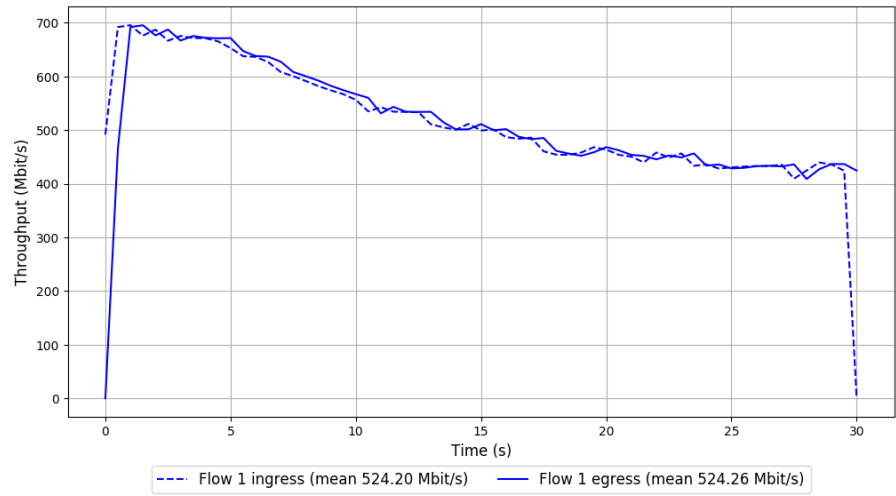
-- Flow 1:

Average throughput: 524.26 Mbit/s

95th percentile per-packet one-way delay: 19.100 ms

Loss rate: 0.05%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-09-18 16:35:46

End at: 2019-09-18 16:36:17

Local clock offset: 4.153 ms

Remote clock offset: 0.21 ms

Below is generated by plot.py at 2019-09-18 19:31:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 423.54 Mbit/s

95th percentile per-packet one-way delay: 19.603 ms

Loss rate: 0.05%

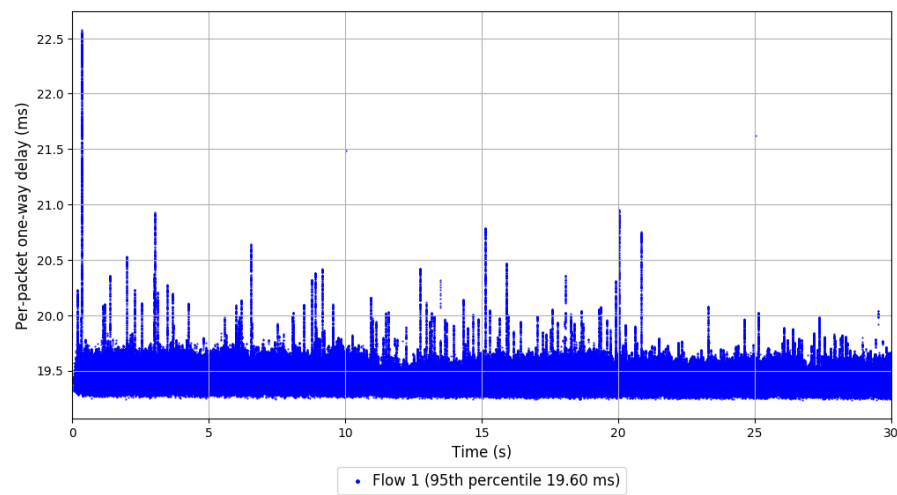
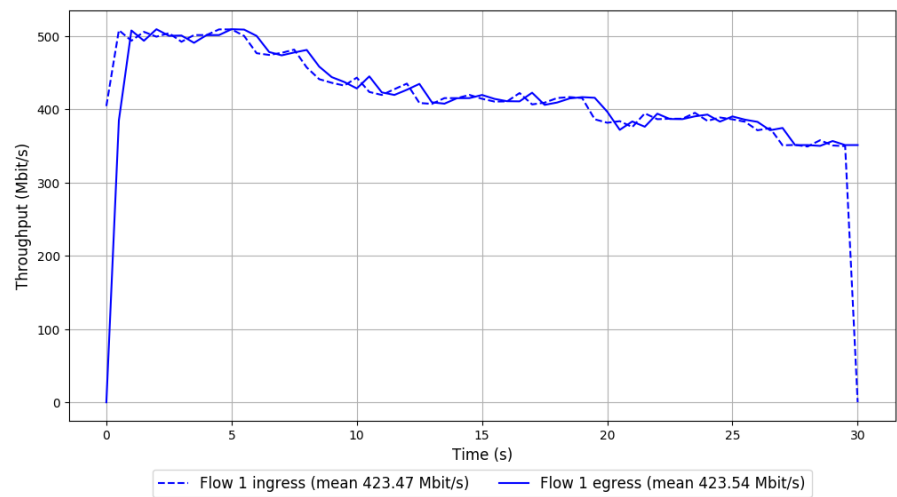
-- Flow 1:

Average throughput: 423.54 Mbit/s

95th percentile per-packet one-way delay: 19.603 ms

Loss rate: 0.05%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-09-18 17:09:54

End at: 2019-09-18 17:10:24

Local clock offset: 1.272 ms

Remote clock offset: 0.292 ms

Below is generated by plot.py at 2019-09-18 19:32:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 426.93 Mbit/s

95th percentile per-packet one-way delay: 20.260 ms

Loss rate: 0.05%

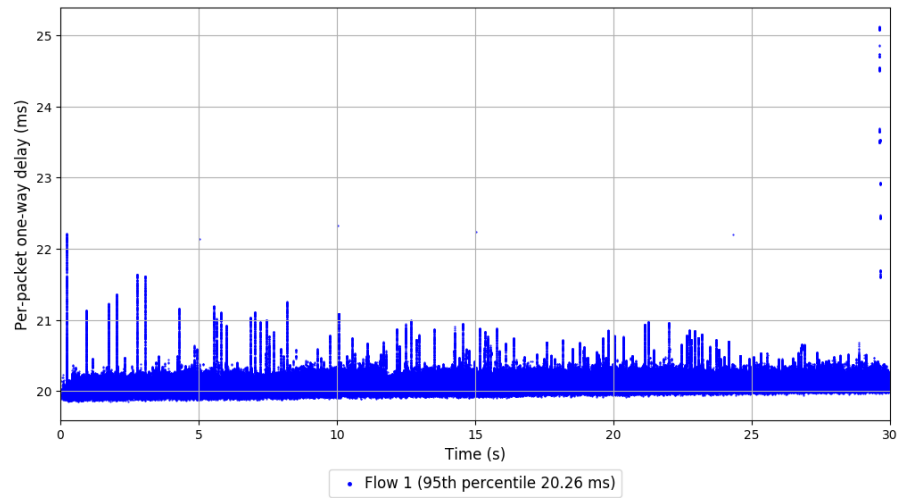
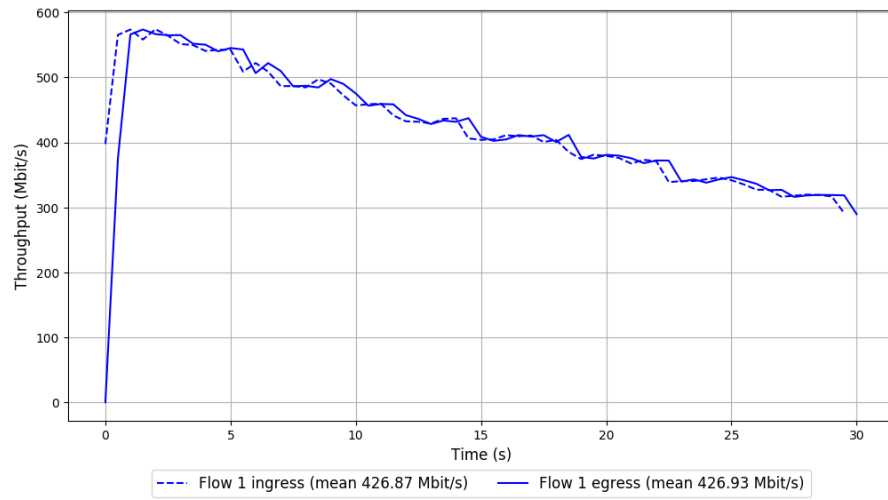
-- Flow 1:

Average throughput: 426.93 Mbit/s

95th percentile per-packet one-way delay: 20.260 ms

Loss rate: 0.05%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-09-18 17:44:16

End at: 2019-09-18 17:44:46

Local clock offset: -0.559 ms

Remote clock offset: -0.03 ms

Below is generated by plot.py at 2019-09-18 19:32:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.90 Mbit/s

95th percentile per-packet one-way delay: 3.384 ms

Loss rate: 0.00%

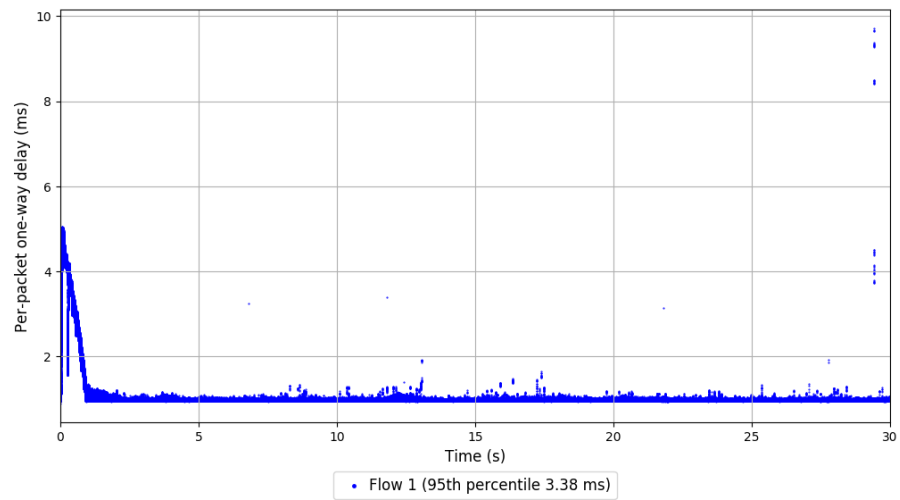
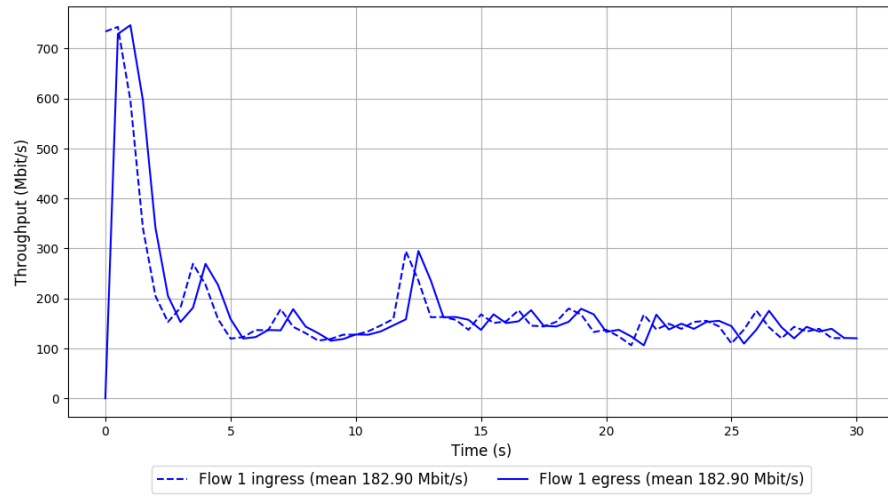
-- Flow 1:

Average throughput: 182.90 Mbit/s

95th percentile per-packet one-way delay: 3.384 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-09-18 18:17:57

End at: 2019-09-18 18:18:27

Local clock offset: -0.215 ms

Remote clock offset: 3.648 ms

Below is generated by plot.py at 2019-09-18 19:32:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.98 Mbit/s

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

Loss rate: 0.00%

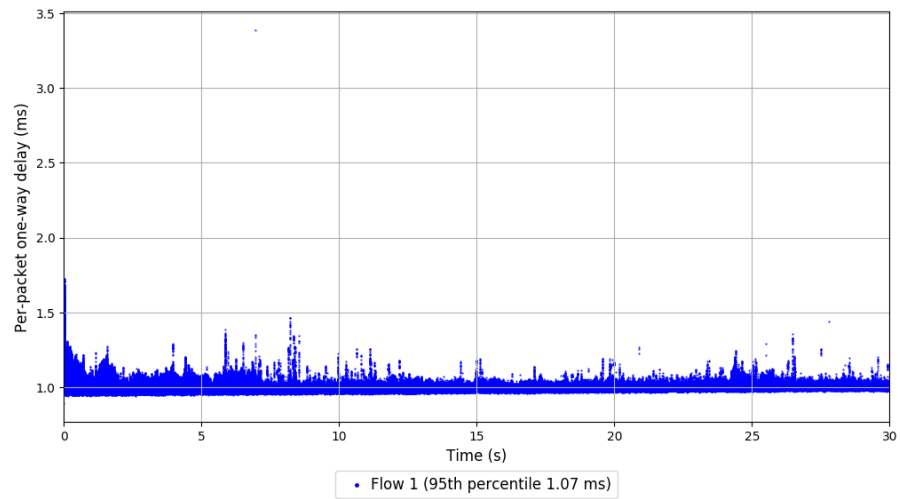
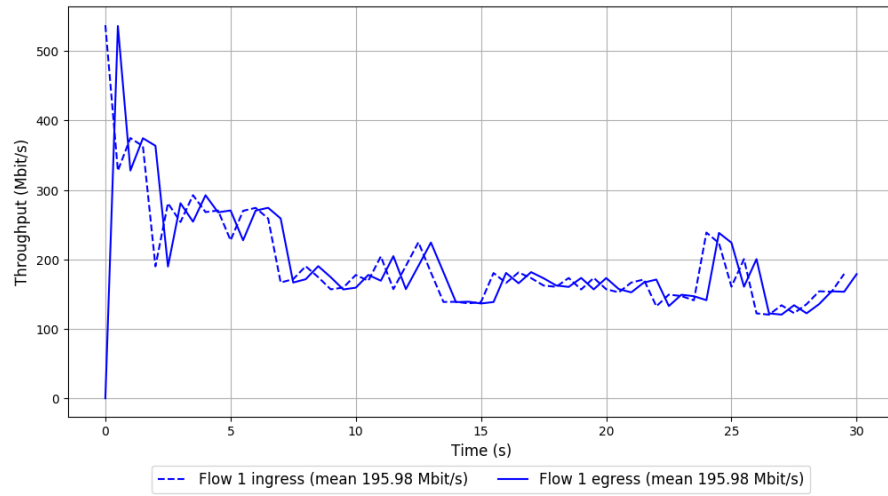
-- Flow 1:

Average throughput: 195.98 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-09-18 15:38:51

End at: 2019-09-18 15:39:21

Local clock offset: -0.087 ms

Remote clock offset: -0.13 ms

Below is generated by plot.py at 2019-09-18 19:33:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 326.31 Mbit/s

95th percentile per-packet one-way delay: 3.026 ms

Loss rate: 0.00%

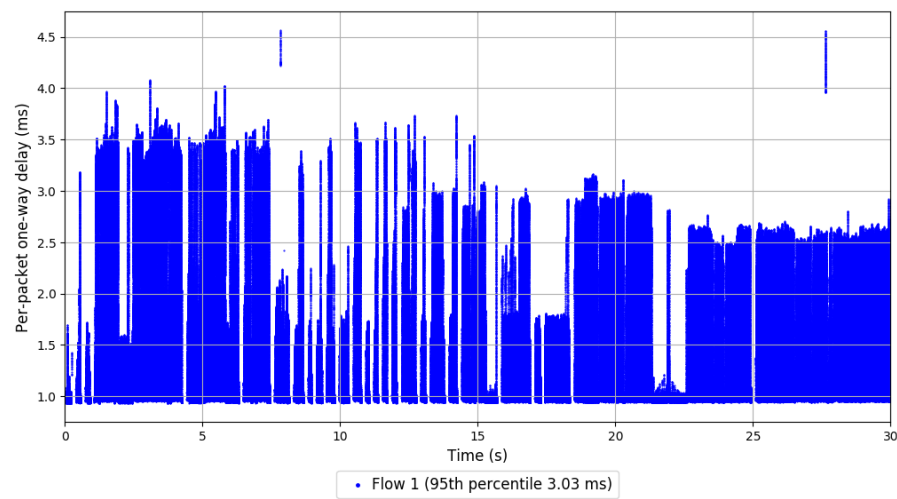
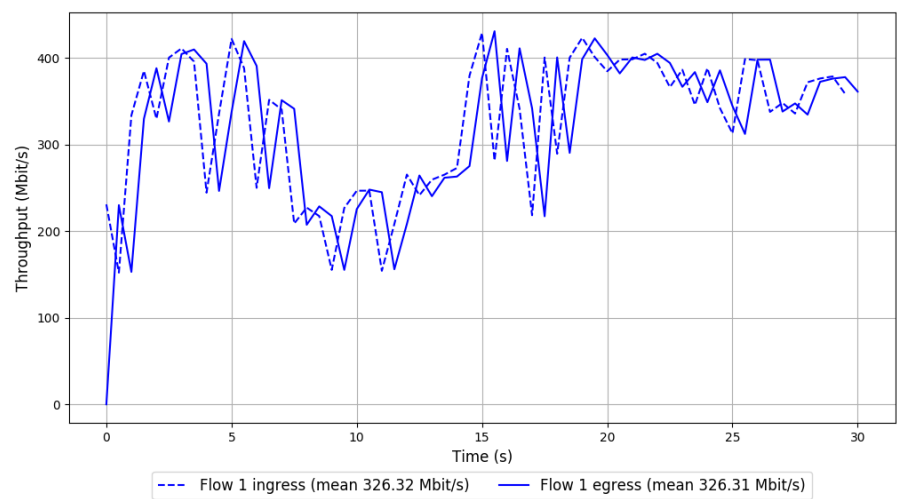
-- Flow 1:

Average throughput: 326.31 Mbit/s

95th percentile per-packet one-way delay: 3.026 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-09-18 16:12:53

End at: 2019-09-18 16:13:23

Local clock offset: 2.652 ms

Remote clock offset: 0.72 ms

Below is generated by plot.py at 2019-09-18 19:34:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 360.62 Mbit/s

95th percentile per-packet one-way delay: 28.852 ms

Loss rate: 0.04%

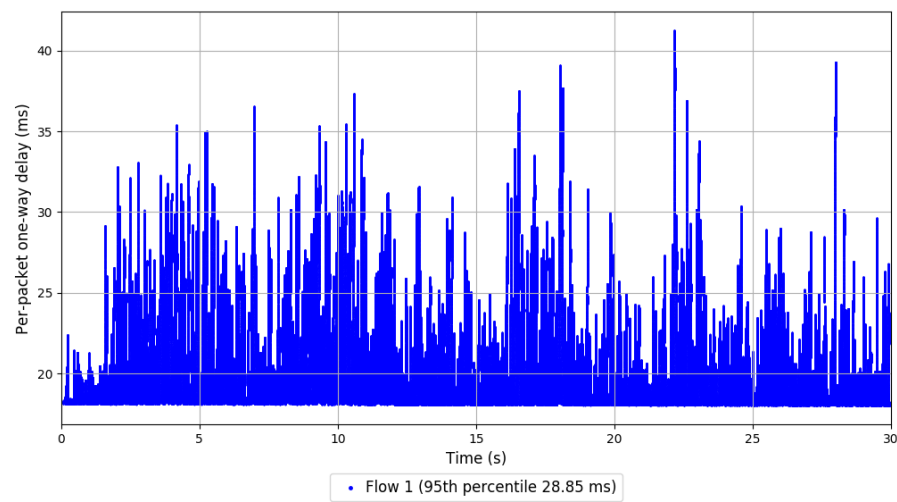
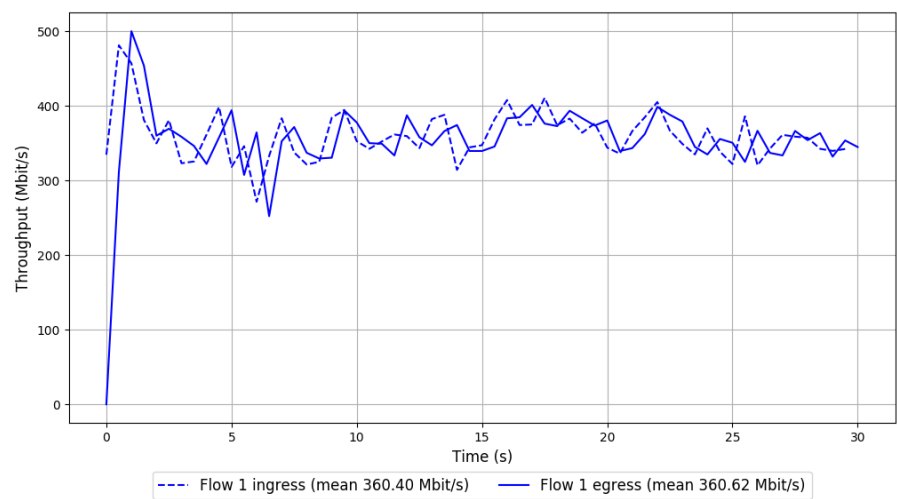
-- Flow 1:

Average throughput: 360.62 Mbit/s

95th percentile per-packet one-way delay: 28.852 ms

Loss rate: 0.04%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-09-18 16:47:15

End at: 2019-09-18 16:47:45

Local clock offset: 4.573 ms

Remote clock offset: 0.321 ms

Below is generated by plot.py at 2019-09-18 19:34:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 323.47 Mbit/s

95th percentile per-packet one-way delay: 2.441 ms

Loss rate: 0.00%

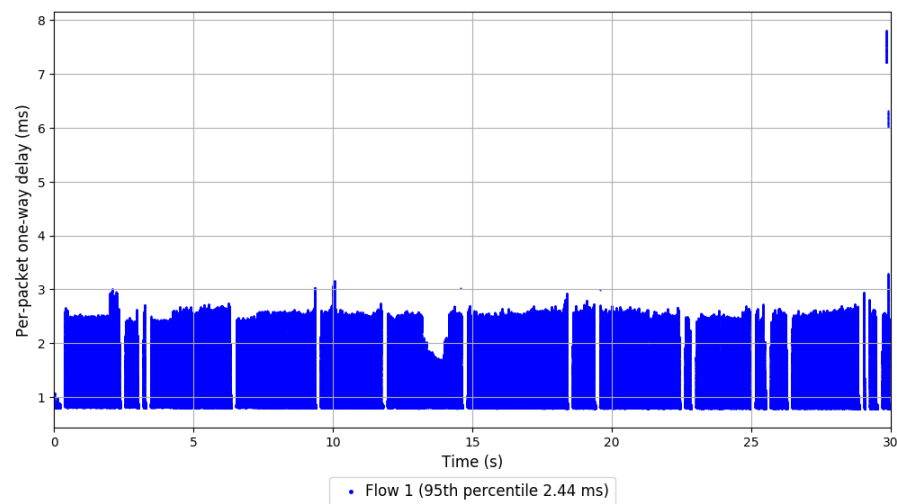
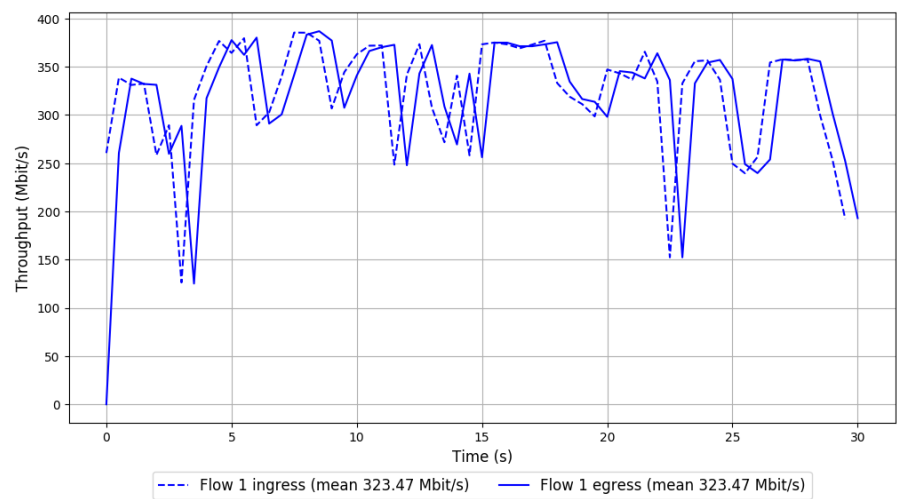
-- Flow 1:

Average throughput: 323.47 Mbit/s

95th percentile per-packet one-way delay: 2.441 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-09-18 17:21:32

End at: 2019-09-18 17:22:02

Local clock offset: -0.582 ms

Remote clock offset: 0.416 ms

Below is generated by plot.py at 2019-09-18 19:34:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 360.21 Mbit/s

95th percentile per-packet one-way delay: 24.874 ms

Loss rate: 0.09%

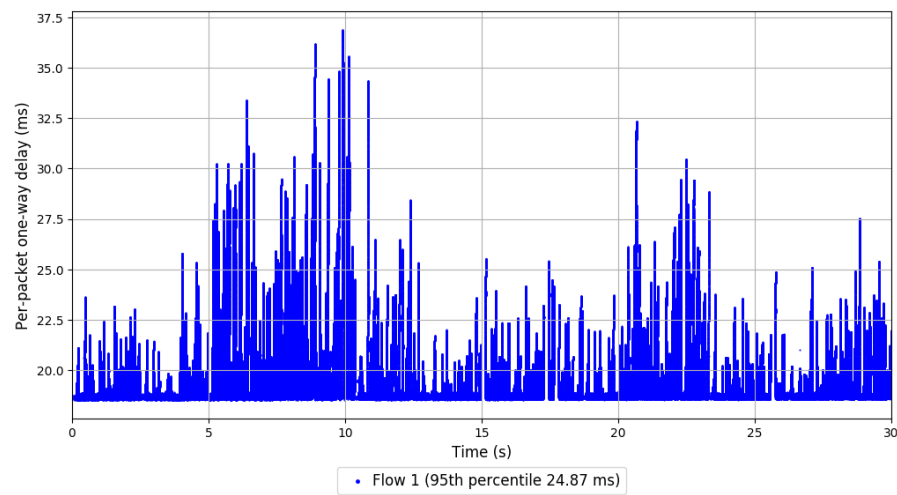
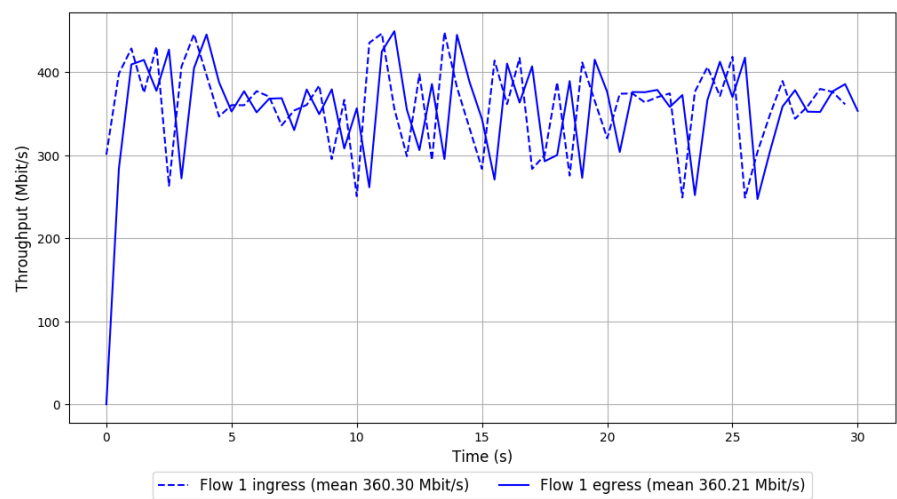
-- Flow 1:

Average throughput: 360.21 Mbit/s

95th percentile per-packet one-way delay: 24.874 ms

Loss rate: 0.09%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-09-18 17:55:16

End at: 2019-09-18 17:55:46

Local clock offset: -0.695 ms

Remote clock offset: 0.178 ms

Below is generated by plot.py at 2019-09-18 19:35:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 328.67 Mbit/s

95th percentile per-packet one-way delay: 2.536 ms

Loss rate: 0.01%

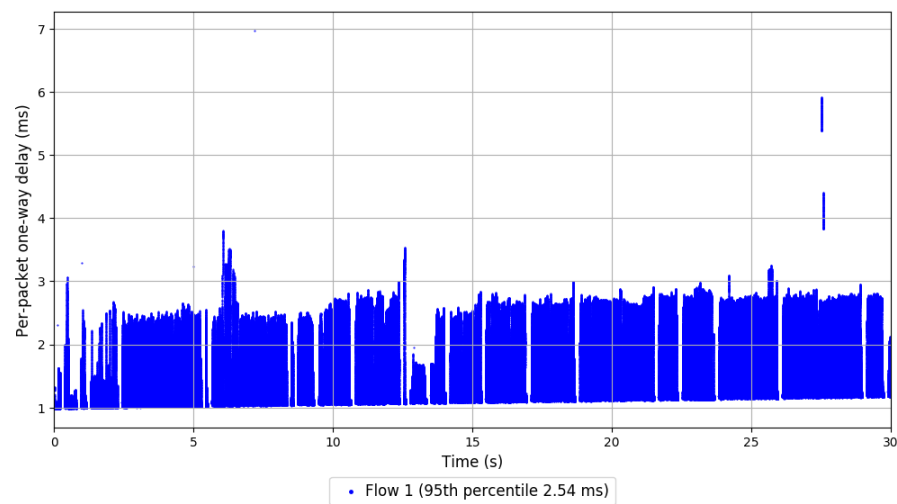
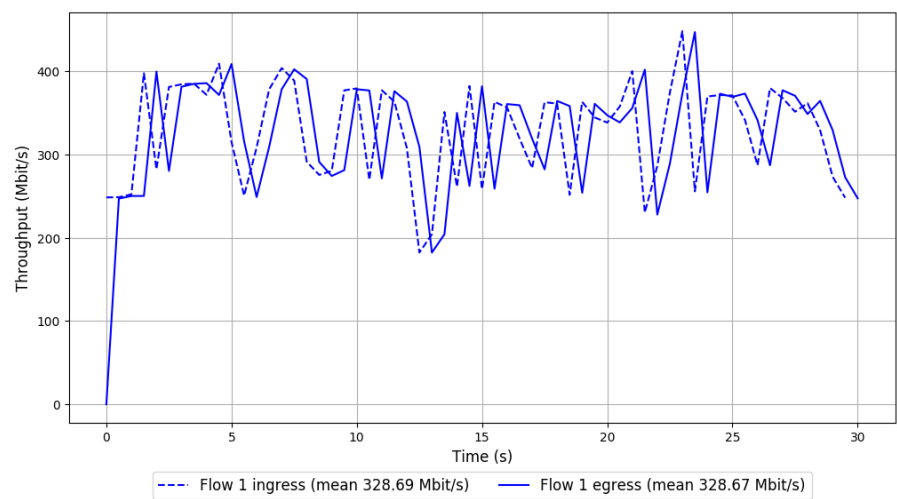
-- Flow 1:

Average throughput: 328.67 Mbit/s

95th percentile per-packet one-way delay: 2.536 ms

Loss rate: 0.01%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-09-18 15:48:38

End at: 2019-09-18 15:49:08

Local clock offset: -0.051 ms

Remote clock offset: 0.246 ms

Below is generated by plot.py at 2019-09-18 19:35:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 259.57 Mbit/s

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

Loss rate: 0.01%

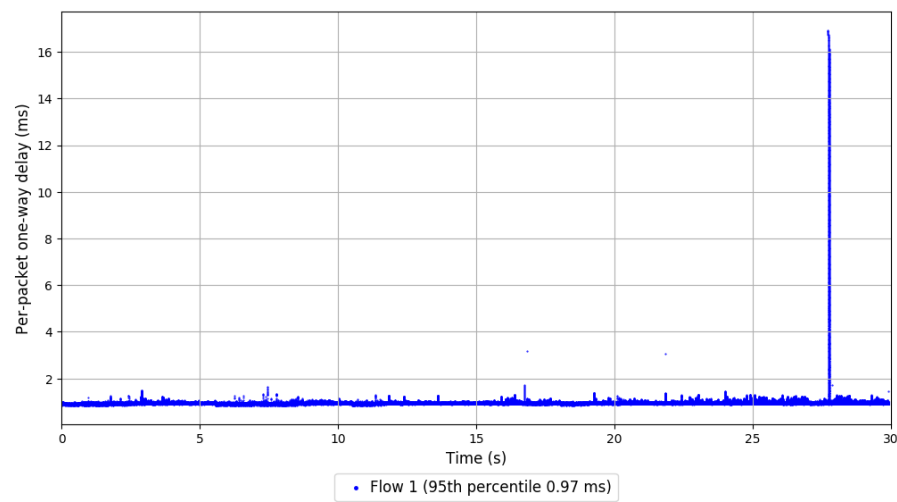
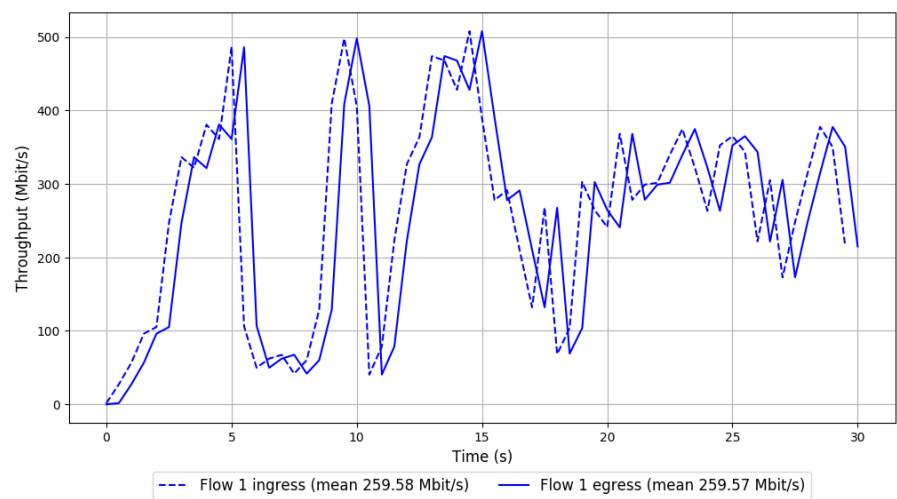
-- Flow 1:

Average throughput: 259.57 Mbit/s

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

Loss rate: 0.01%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-09-18 16:22:30

End at: 2019-09-18 16:23:00

Local clock offset: 3.5 ms

Remote clock offset: 0.378 ms

Below is generated by plot.py at 2019-09-18 19:36:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 399.78 Mbit/s

95th percentile per-packet one-way delay: 18.651 ms

Loss rate: 0.06%

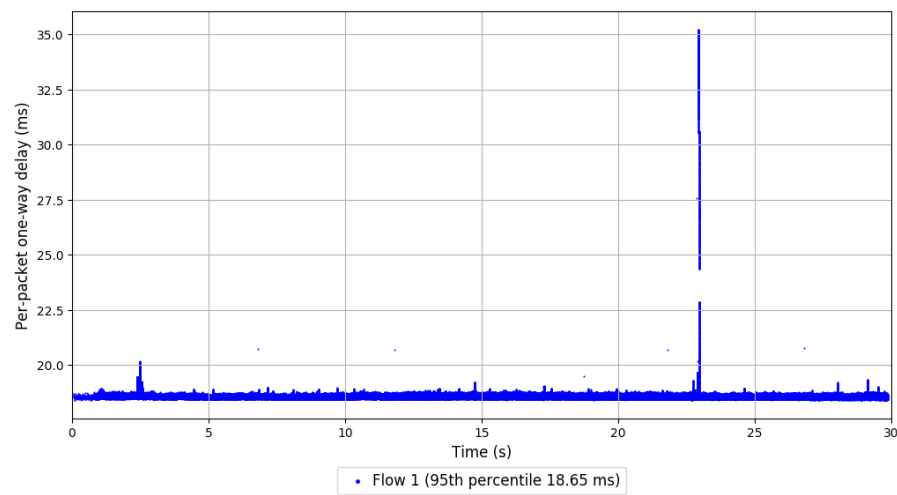
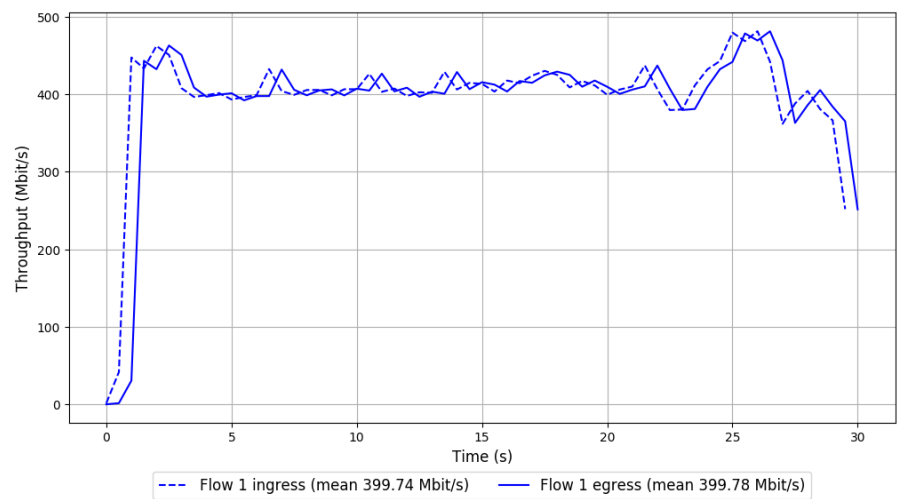
-- Flow 1:

Average throughput: 399.78 Mbit/s

95th percentile per-packet one-way delay: 18.651 ms

Loss rate: 0.06%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-09-18 16:56:50

End at: 2019-09-18 16:57:20

Local clock offset: 4.91 ms

Remote clock offset: 0.291 ms

Below is generated by plot.py at 2019-09-18 19:36:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 386.50 Mbit/s

95th percentile per-packet one-way delay: 18.240 ms

Loss rate: 0.07%

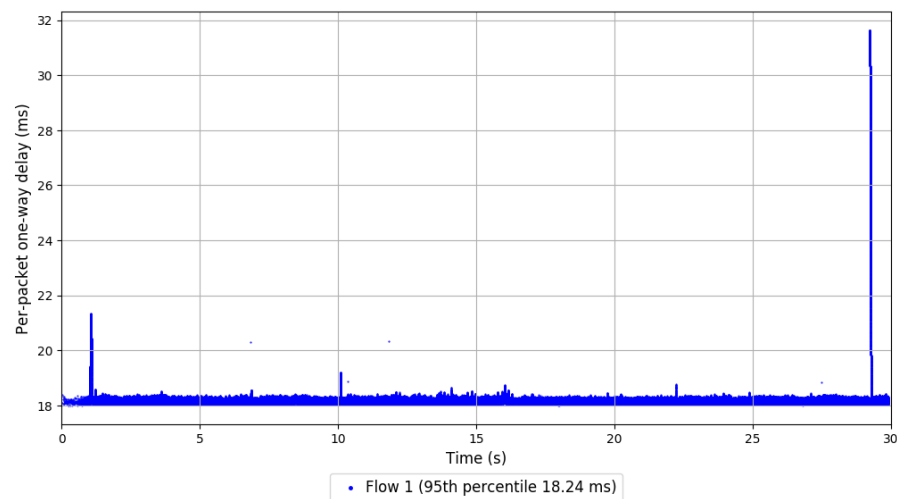
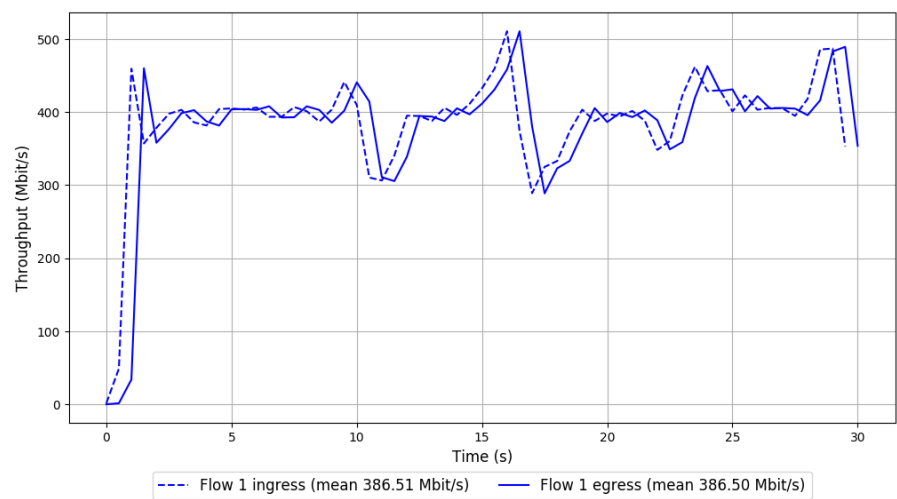
-- Flow 1:

Average throughput: 386.50 Mbit/s

95th percentile per-packet one-way delay: 18.240 ms

Loss rate: 0.07%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-09-18 17:31:12

End at: 2019-09-18 17:31:42

Local clock offset: -1.299 ms

Remote clock offset: 0.193 ms

Below is generated by plot.py at 2019-09-18 19:36:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 362.98 Mbit/s

95th percentile per-packet one-way delay: 19.810 ms

Loss rate: 0.07%

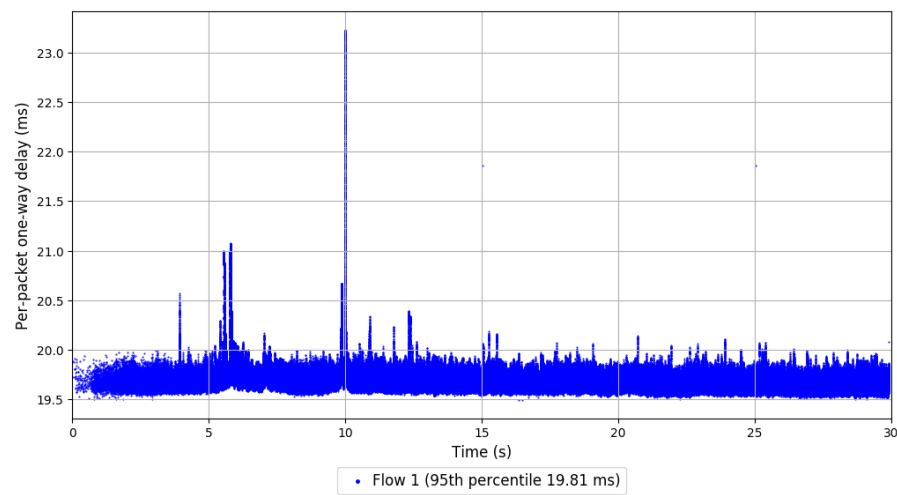
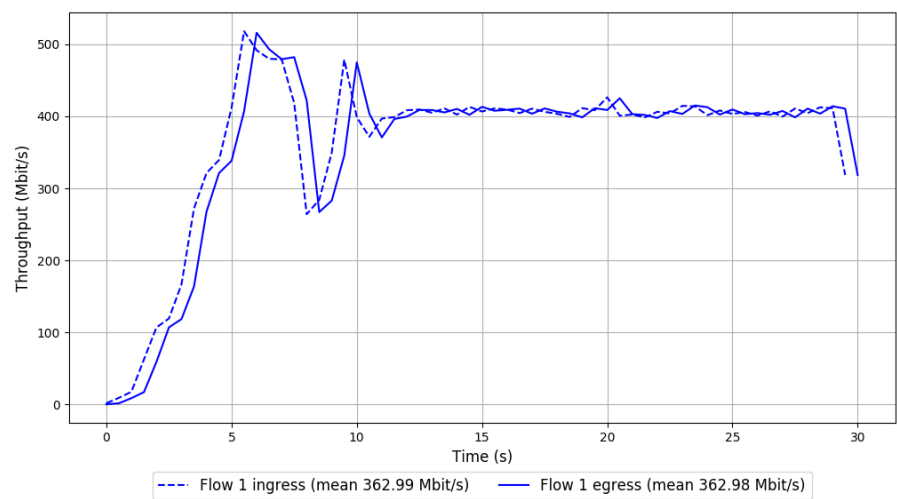
-- Flow 1:

Average throughput: 362.98 Mbit/s

95th percentile per-packet one-way delay: 19.810 ms

Loss rate: 0.07%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-09-18 18:05:14

End at: 2019-09-18 18:05:44

Local clock offset: -0.497 ms

Remote clock offset: 2.435 ms

Below is generated by plot.py at 2019-09-18 19:36:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.10 Mbit/s

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

Loss rate: 0.01%

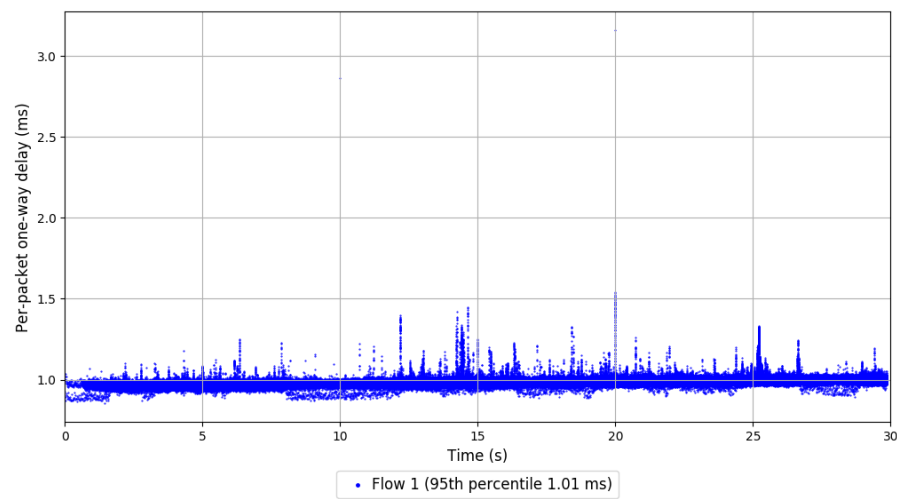
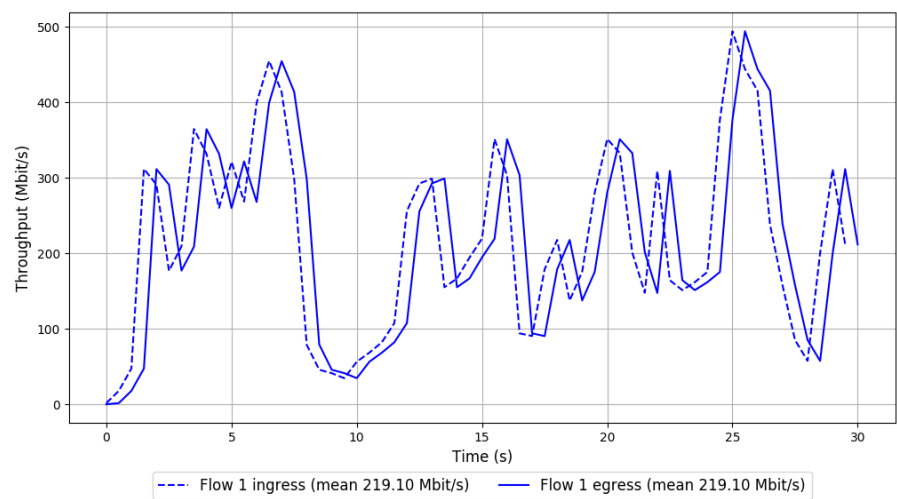
-- Flow 1:

Average throughput: 219.10 Mbit/s

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

Loss rate: 0.01%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-09-18 15:57:36

End at: 2019-09-18 15:58:06

Local clock offset: -0.094 ms

Remote clock offset: 0.545 ms

Below is generated by plot.py at 2019-09-18 19:36:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

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

Loss rate: 0.00%

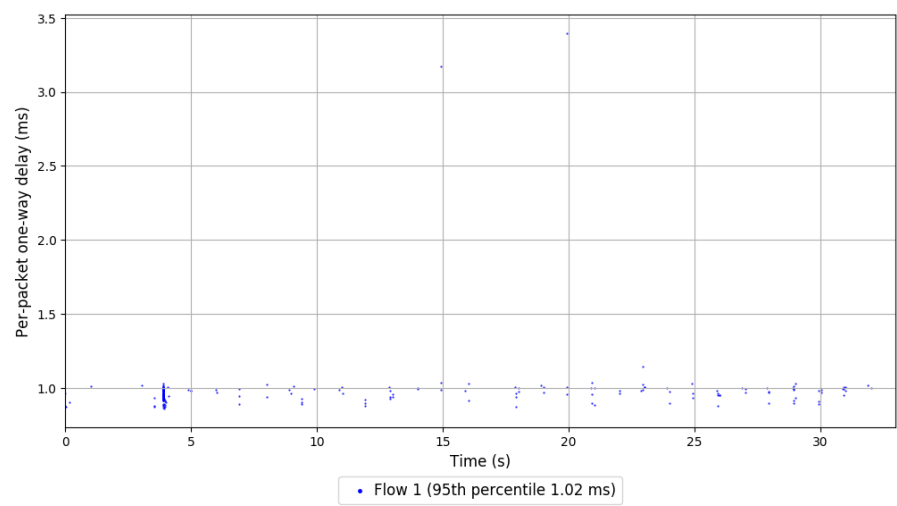
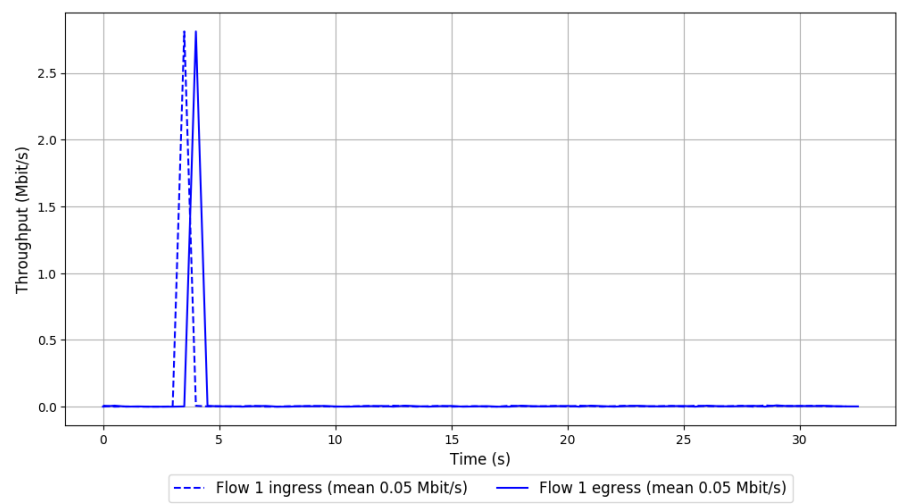
-- Flow 1:

Average throughput: 0.05 Mbit/s

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

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-09-18 16:31:29

End at: 2019-09-18 16:31:59

Local clock offset: 3.925 ms

Remote clock offset: 0.241 ms

Below is generated by plot.py at 2019-09-18 19:36:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 0.964 ms

Loss rate: 0.00%

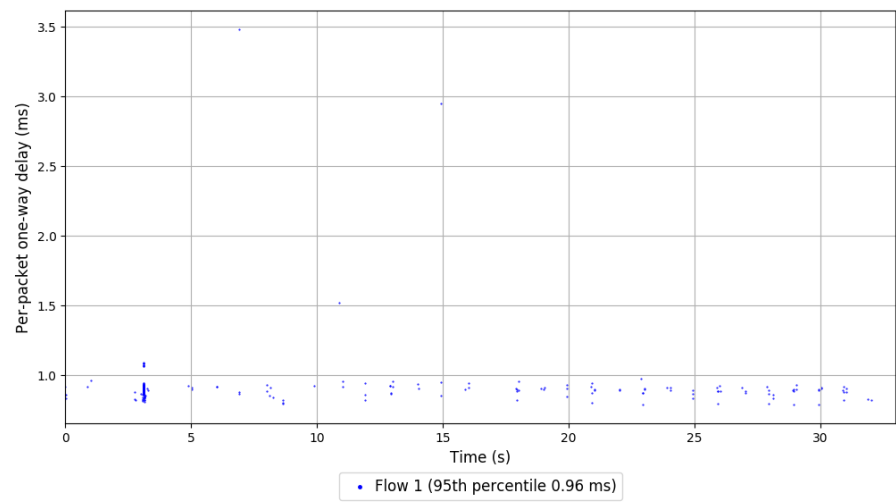
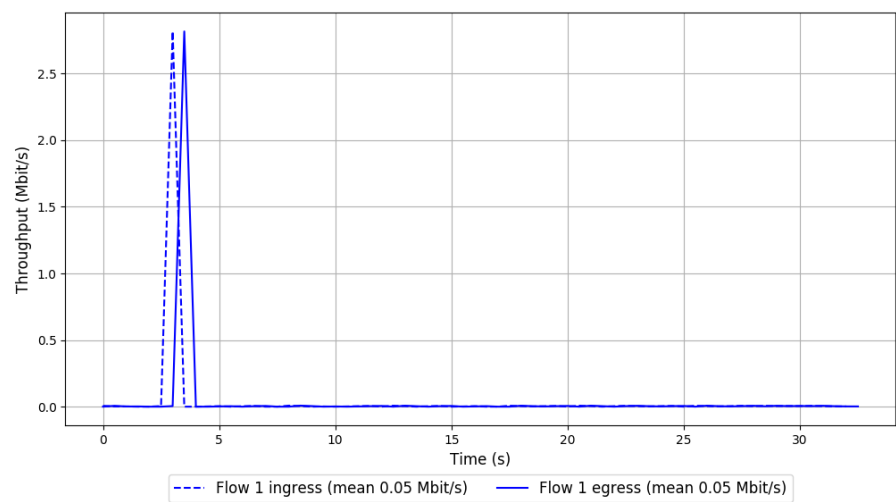
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 0.964 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-09-18 17:05:42

End at: 2019-09-18 17:06:12

Local clock offset: 2.505 ms

Remote clock offset: 0.347 ms

Below is generated by plot.py at 2019-09-18 19:36:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.287 ms

Loss rate: 0.00%

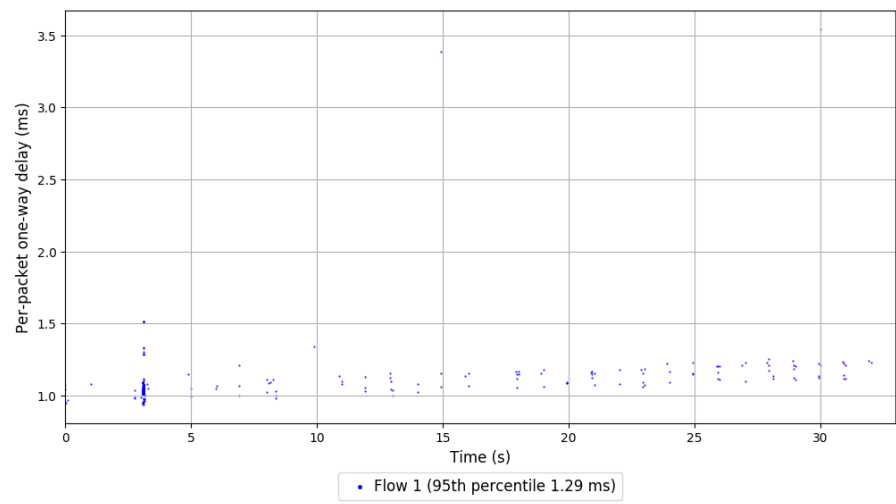
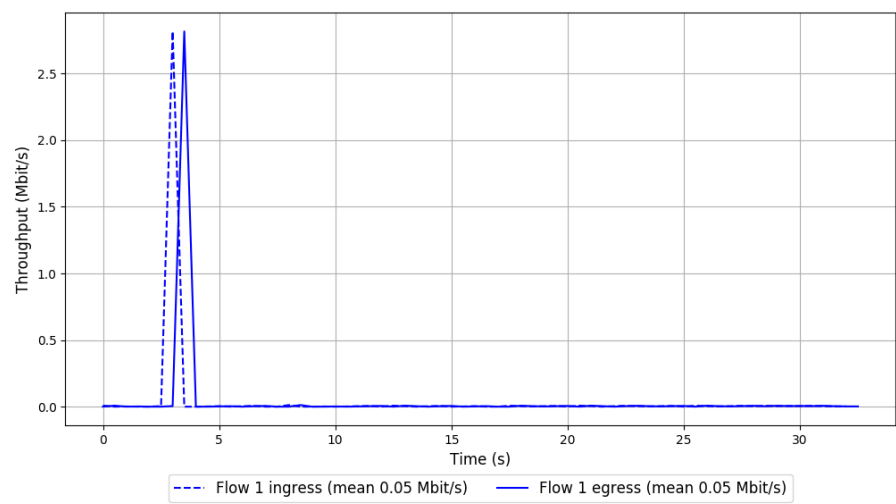
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.287 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-09-18 17:40:15

End at: 2019-09-18 17:40:46

Local clock offset: -0.606 ms

Remote clock offset: 0.006 ms

Below is generated by plot.py at 2019-09-18 19:36:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 18.906 ms

Loss rate: 0.00%

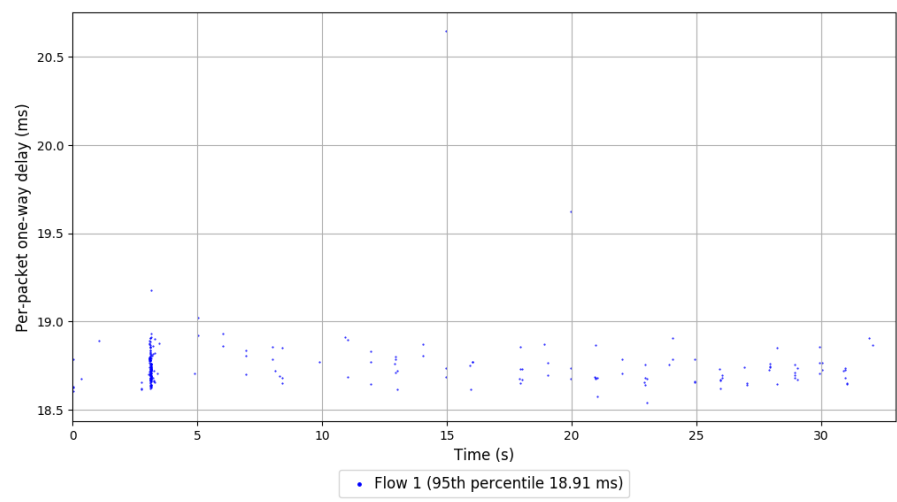
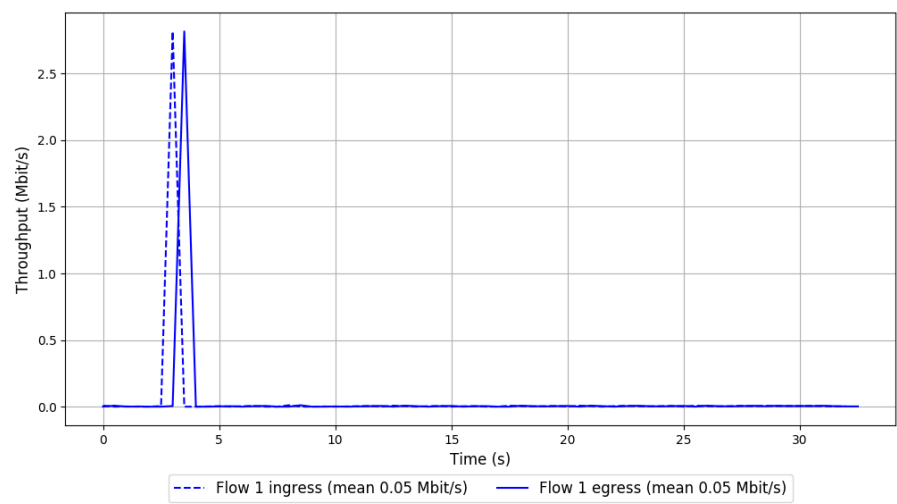
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 18.906 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-09-18 18:13:58

End at: 2019-09-18 18:14:28

Local clock offset: -0.245 ms

Remote clock offset: 3.362 ms

Below is generated by plot.py at 2019-09-18 19:36:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 18.455 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 18.455 ms

Loss rate: 0.05%

Run 5: Report of WebRTC media — Data Link

