

Pantheon Report

Generated at 2019-10-03 10:59:42 (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:

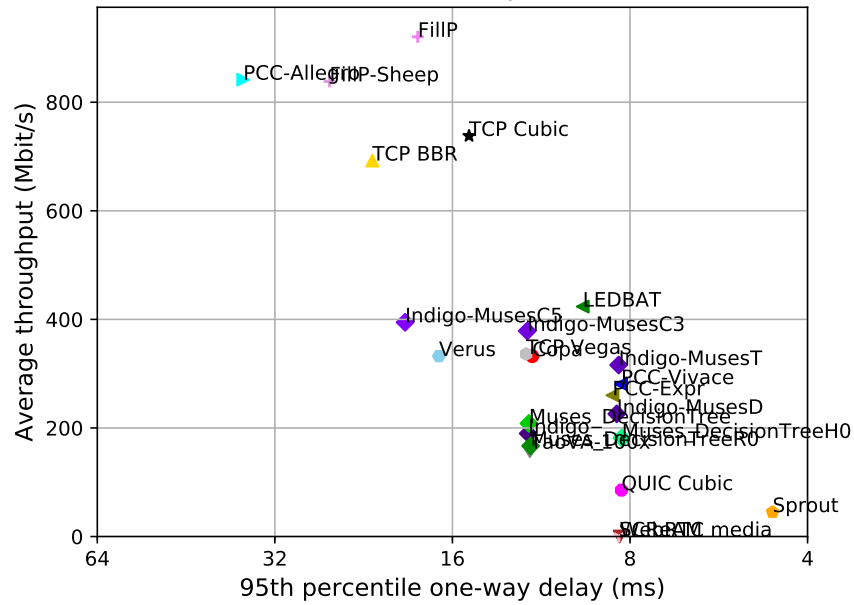
```
Linux 4.15.0-1050-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

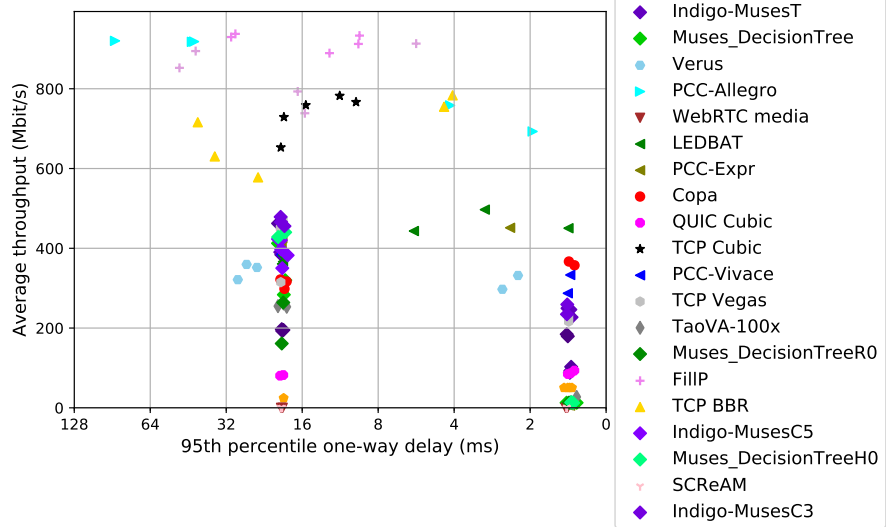
```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
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	692.52	21.87	0.03
Copa	5	332.22	11.72	0.04
TCP Cubic	5	737.95	15.00	0.06
FillP	5	920.44	18.31	0.04
FillP-Sheep	5	838.37	25.85	0.10
Indigo	5	189.83	11.90	0.05
Indigo-MusesC3	5	378.69	11.95	0.05
Indigo-MusesC5	5	394.65	19.25	0.07
Indigo-MusesD	5	225.98	8.42	0.03
Indigo-MusesT	5	315.98	8.36	0.04
LEDBAT	5	423.59	9.62	0.03
Muses_DecisionTree	5	208.33	11.87	0.04
Muses_DecisionTreeH0	5	181.64	8.26	0.03
Muses_DecisionTreeR0	5	167.00	11.79	0.05
PCC-Allegro	5	841.42	36.20	0.05
PCC-Expr	5	260.20	8.57	0.03
QUIC Cubic	5	85.49	8.27	0.03
SCReAM	5	0.22	8.36	0.08
Sprout	5	45.06	4.59	0.01
TaoVA-100x	5	161.77	11.82	0.04
TCP Vegas	5	336.26	12.00	0.03
Verus	5	332.38	16.87	0.05
PCC-Vivace	5	280.76	8.28	0.03
WebRTC media	5	0.05	8.33	0.01

Run 1: Statistics of TCP BBR

Start at: 2019-10-03 07:17:48

End at: 2019-10-03 07:18:18

Local clock offset: 5.019 ms

Remote clock offset: 0.714 ms

Below is generated by plot.py at 2019-10-03 10:02:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 783.54 Mbit/s

95th percentile per-packet one-way delay: 4.056 ms

Loss rate: 0.02%

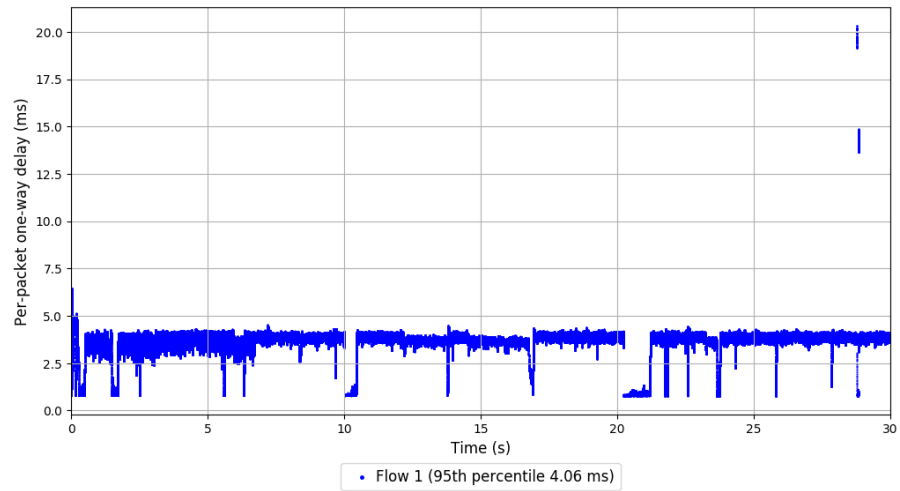
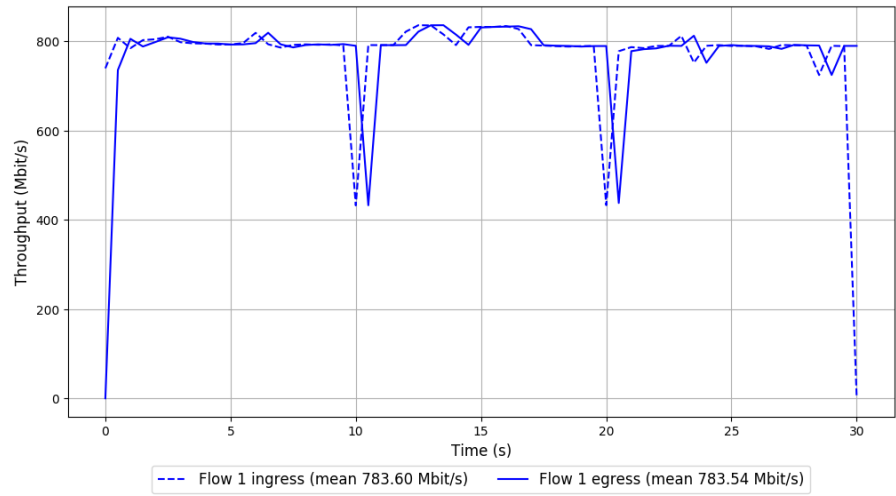
-- Flow 1:

Average throughput: 783.54 Mbit/s

95th percentile per-packet one-way delay: 4.056 ms

Loss rate: 0.02%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-10-03 07:51:51

End at: 2019-10-03 07:52:21

Local clock offset: 5.873 ms

Remote clock offset: 0.671 ms

Below is generated by plot.py at 2019-10-03 10:02:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 630.32 Mbit/s

95th percentile per-packet one-way delay: 35.520 ms

Loss rate: 0.07%

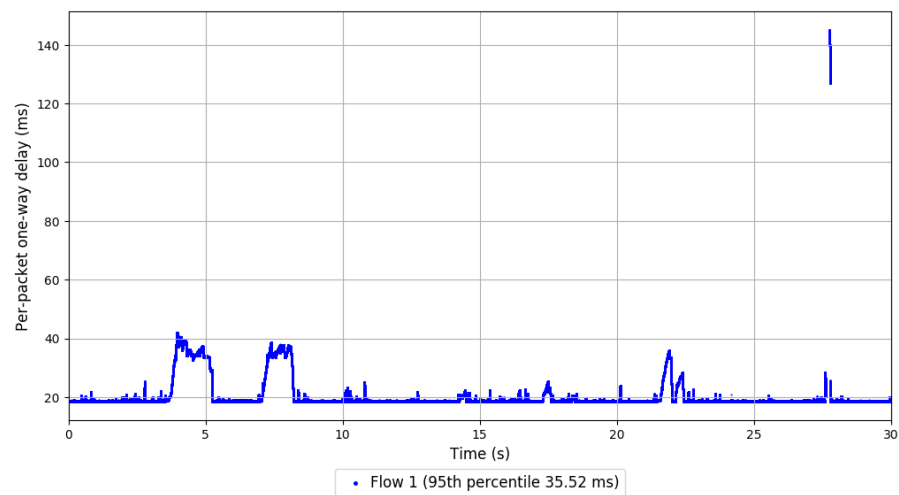
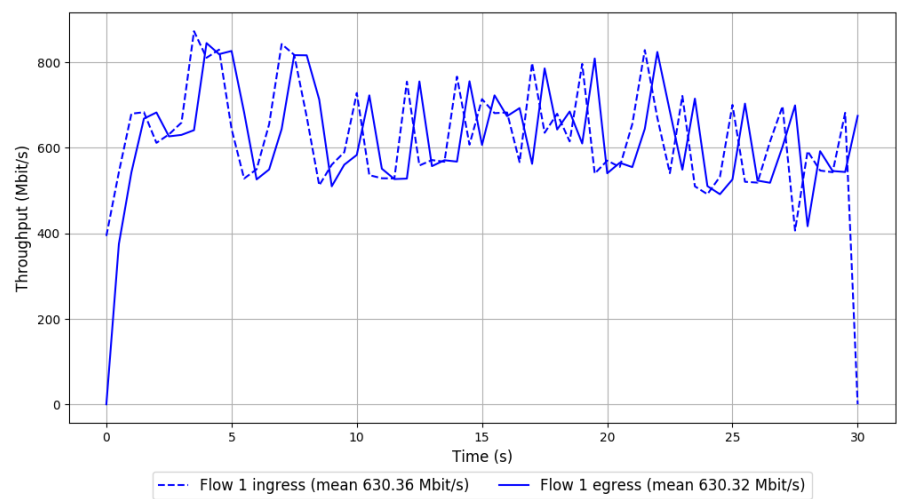
-- Flow 1:

Average throughput: 630.32 Mbit/s

95th percentile per-packet one-way delay: 35.520 ms

Loss rate: 0.07%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-10-03 08:26:20

End at: 2019-10-03 08:26:50

Local clock offset: 6.042 ms

Remote clock offset: 0.275 ms

Below is generated by plot.py at 2019-10-03 10:02:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 716.04 Mbit/s

95th percentile per-packet one-way delay: 41.483 ms

Loss rate: 0.00%

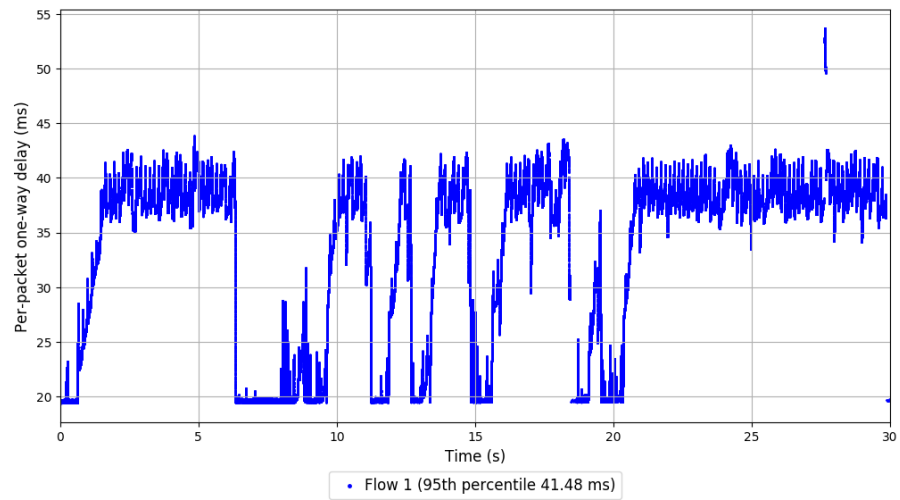
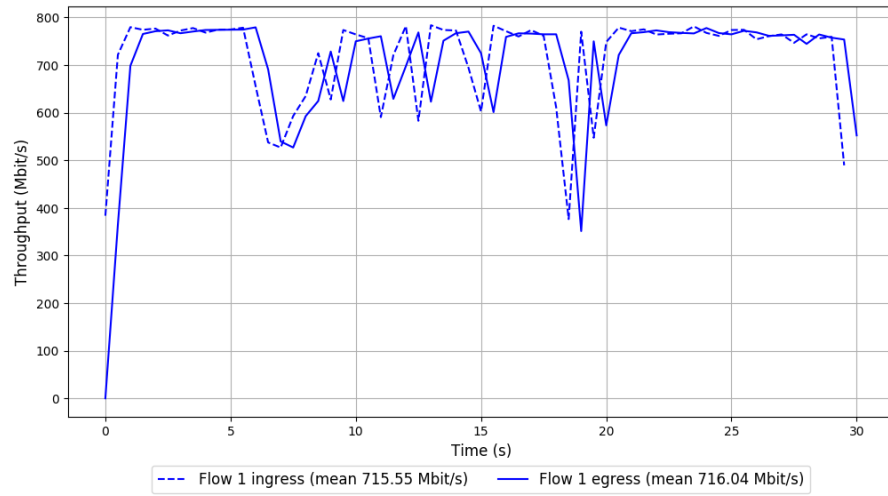
-- Flow 1:

Average throughput: 716.04 Mbit/s

95th percentile per-packet one-way delay: 41.483 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-10-03 09:00:02

End at: 2019-10-03 09:00:32

Local clock offset: 3.045 ms

Remote clock offset: 0.017 ms

Below is generated by plot.py at 2019-10-03 10:02:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 754.79 Mbit/s

95th percentile per-packet one-way delay: 4.385 ms

Loss rate: 0.02%

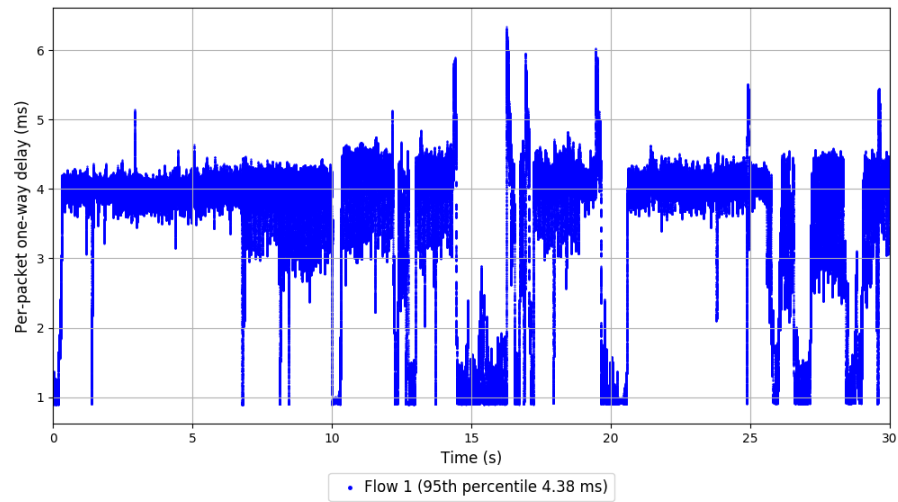
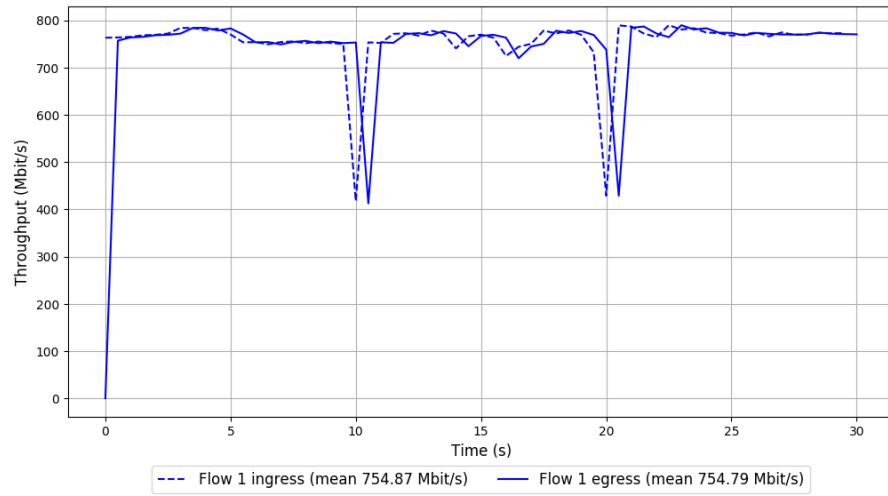
-- Flow 1:

Average throughput: 754.79 Mbit/s

95th percentile per-packet one-way delay: 4.385 ms

Loss rate: 0.02%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-10-03 09:33:47

End at: 2019-10-03 09:34:17

Local clock offset: 3.918 ms

Remote clock offset: 0.18 ms

Below is generated by plot.py at 2019-10-03 10:02:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 577.89 Mbit/s

95th percentile per-packet one-way delay: 23.927 ms

Loss rate: 0.05%

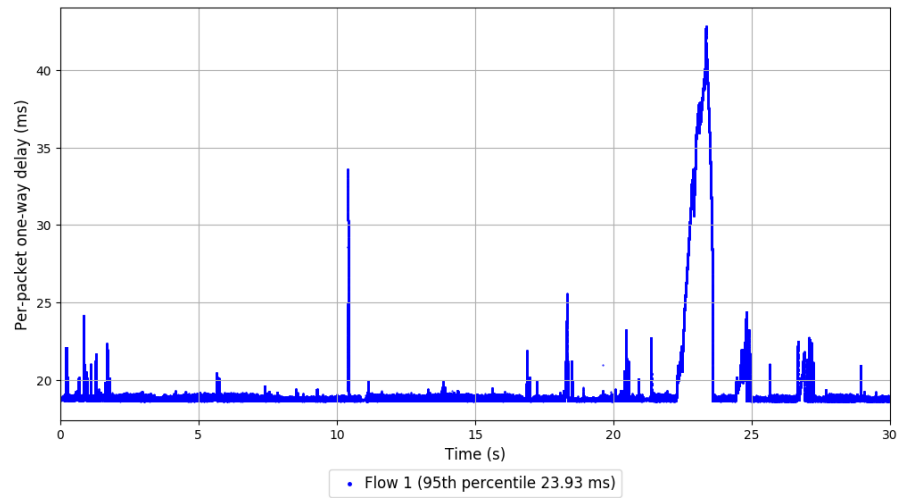
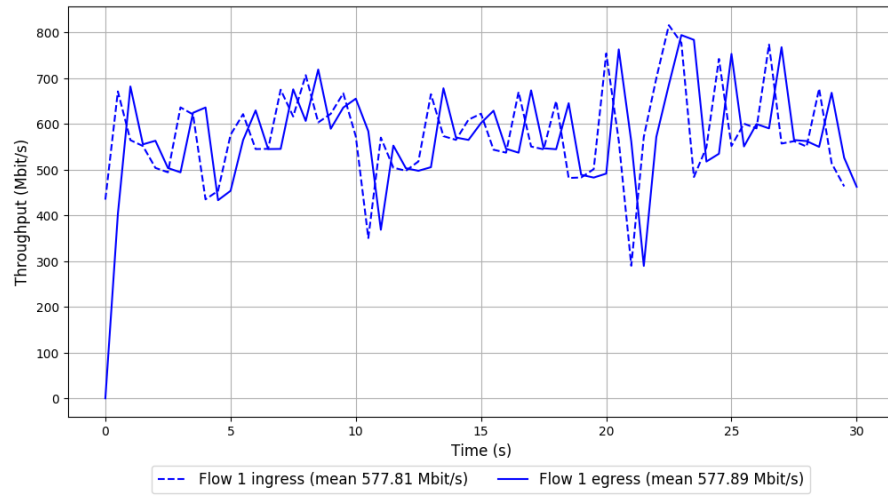
-- Flow 1:

Average throughput: 577.89 Mbit/s

95th percentile per-packet one-way delay: 23.927 ms

Loss rate: 0.05%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-10-03 06:57:28

End at: 2019-10-03 06:57:58

Local clock offset: 4.283 ms

Remote clock offset: 0.122 ms

Below is generated by plot.py at 2019-10-03 10:02:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 357.31 Mbit/s

95th percentile per-packet one-way delay: 0.832 ms

Loss rate: 0.01%

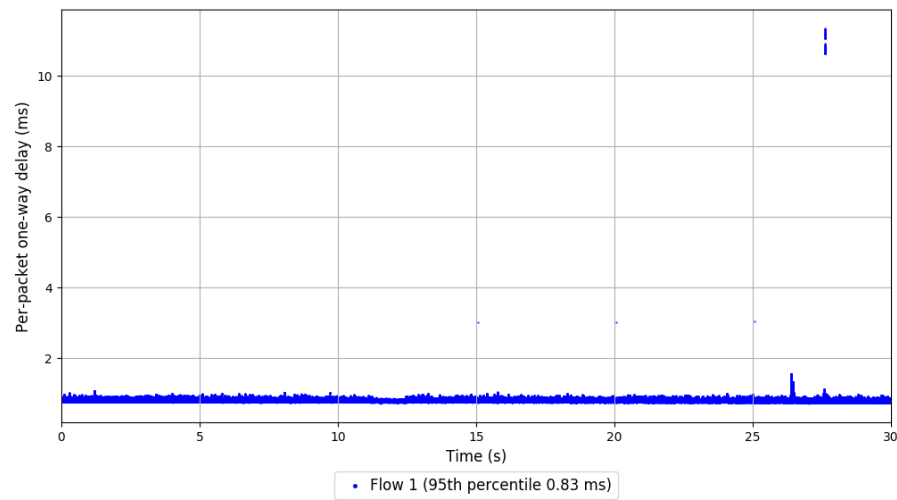
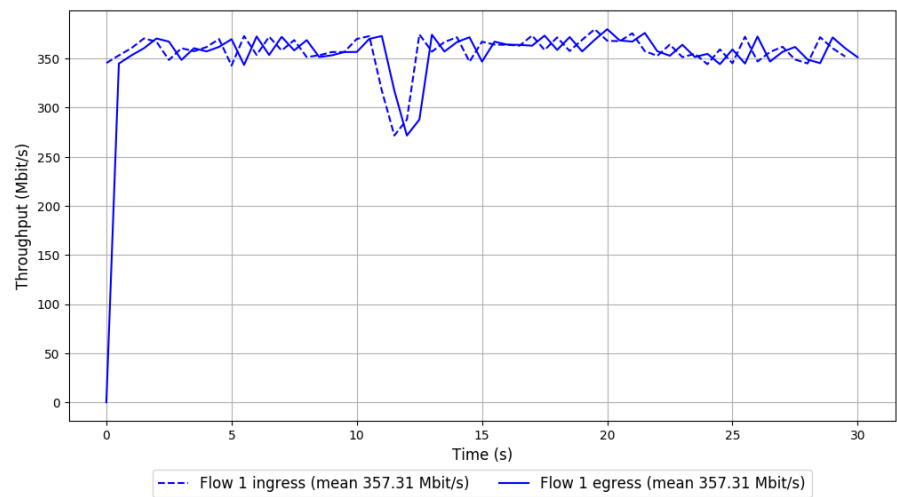
-- Flow 1:

Average throughput: 357.31 Mbit/s

95th percentile per-packet one-way delay: 0.832 ms

Loss rate: 0.01%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-10-03 07:31:55

End at: 2019-10-03 07:32:25

Local clock offset: 5.381 ms

Remote clock offset: 0.342 ms

Below is generated by plot.py at 2019-10-03 10:02:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 366.82 Mbit/s

95th percentile per-packet one-way delay: 0.979 ms

Loss rate: 0.00%

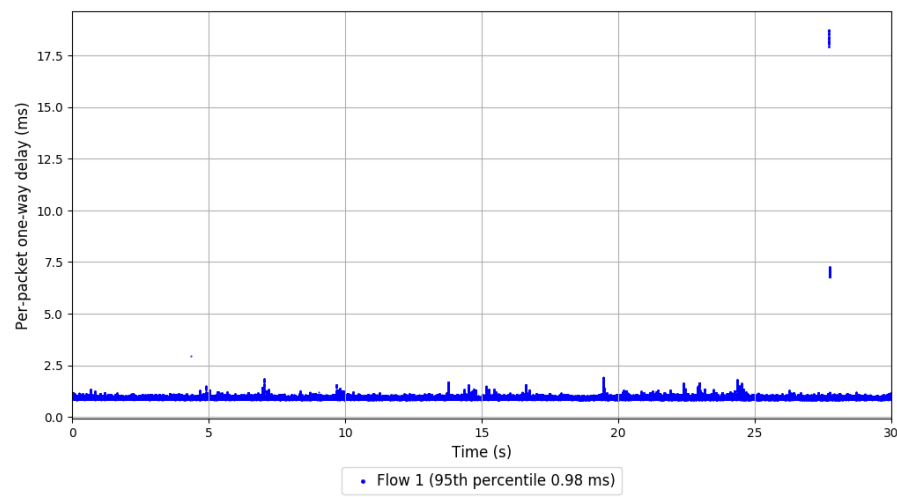
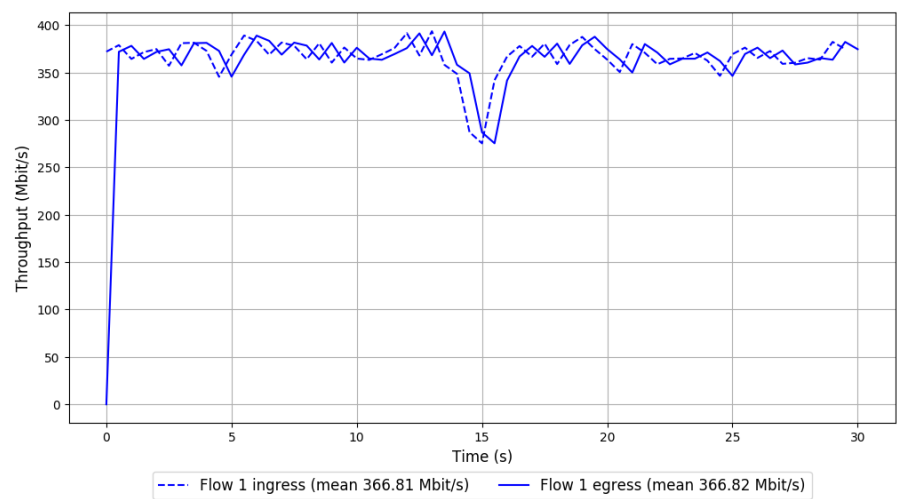
-- Flow 1:

Average throughput: 366.82 Mbit/s

95th percentile per-packet one-way delay: 0.979 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-10-03 08:06:22

End at: 2019-10-03 08:06:52

Local clock offset: 6.197 ms

Remote clock offset: 0.159 ms

Below is generated by plot.py at 2019-10-03 10:02:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 321.79 Mbit/s

95th percentile per-packet one-way delay: 19.514 ms

Loss rate: 0.06%

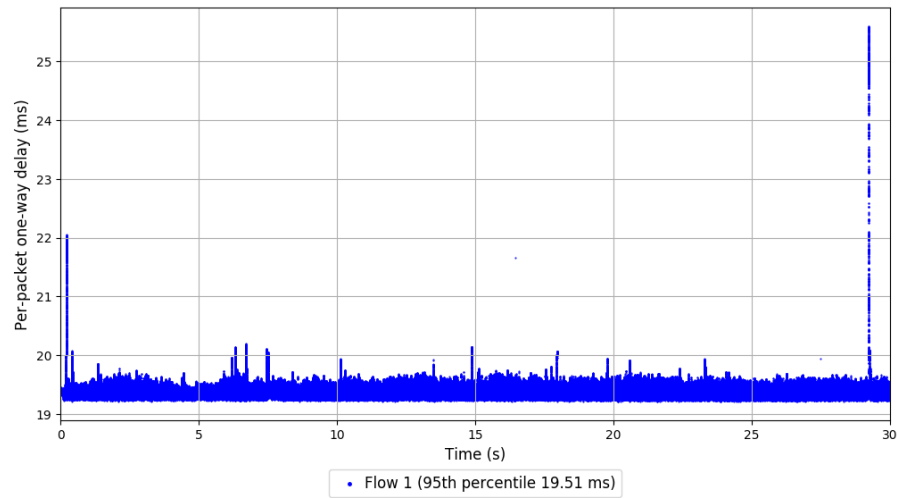
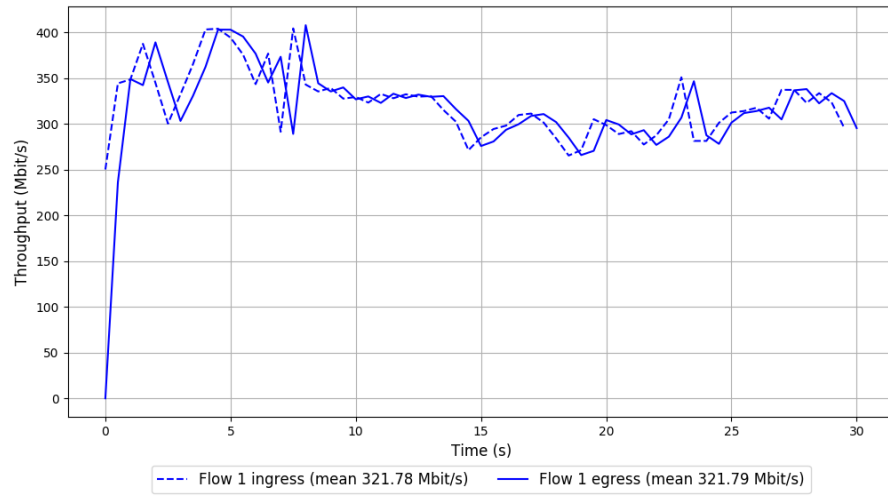
-- Flow 1:

Average throughput: 321.79 Mbit/s

95th percentile per-packet one-way delay: 19.514 ms

Loss rate: 0.06%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-10-03 08:40:35

End at: 2019-10-03 08:41:05

Local clock offset: 3.922 ms

Remote clock offset: 0.095 ms

Below is generated by plot.py at 2019-10-03 10:05:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 298.31 Mbit/s

95th percentile per-packet one-way delay: 18.809 ms

Loss rate: 0.07%

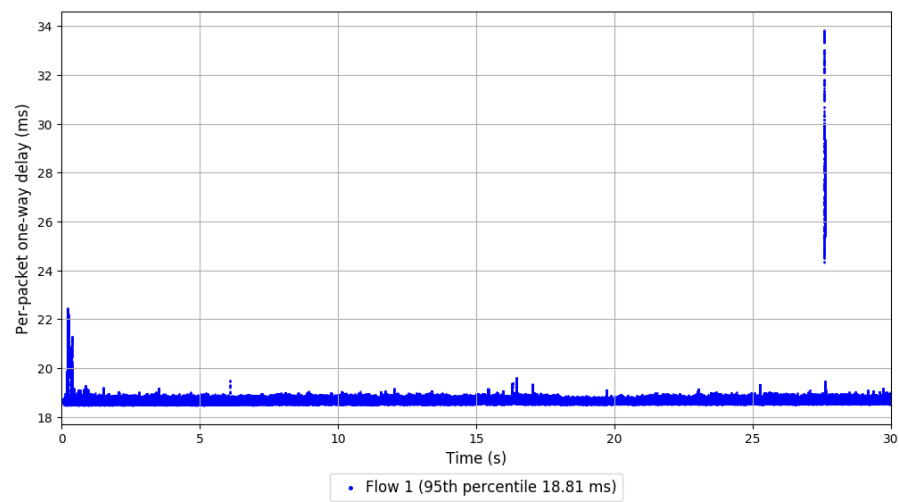
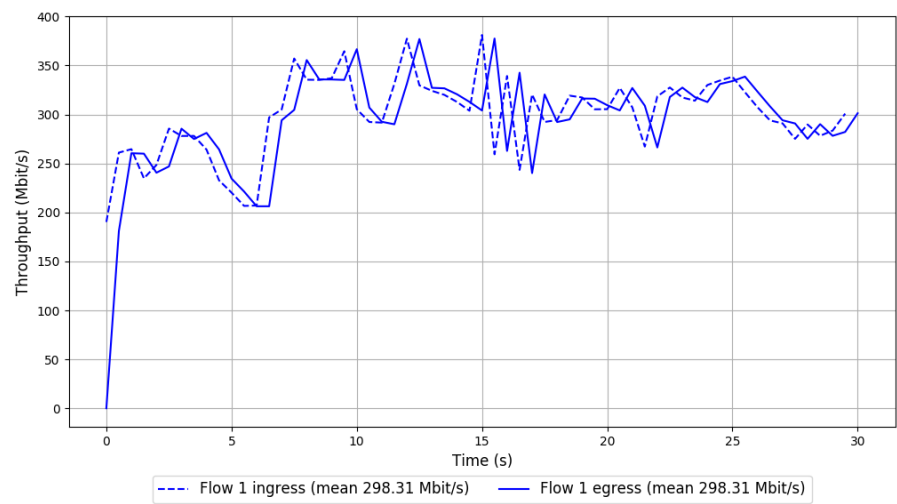
-- Flow 1:

Average throughput: 298.31 Mbit/s

95th percentile per-packet one-way delay: 18.809 ms

Loss rate: 0.07%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-10-03 09:14:30

End at: 2019-10-03 09:15:00

Local clock offset: 2.557 ms

Remote clock offset: 0.023 ms

Below is generated by plot.py at 2019-10-03 10:07:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 316.85 Mbit/s

95th percentile per-packet one-way delay: 18.447 ms

Loss rate: 0.07%

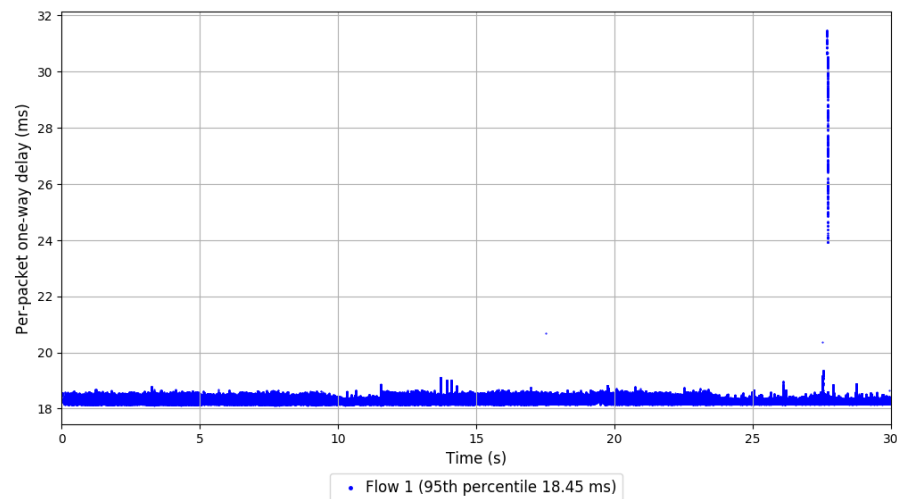
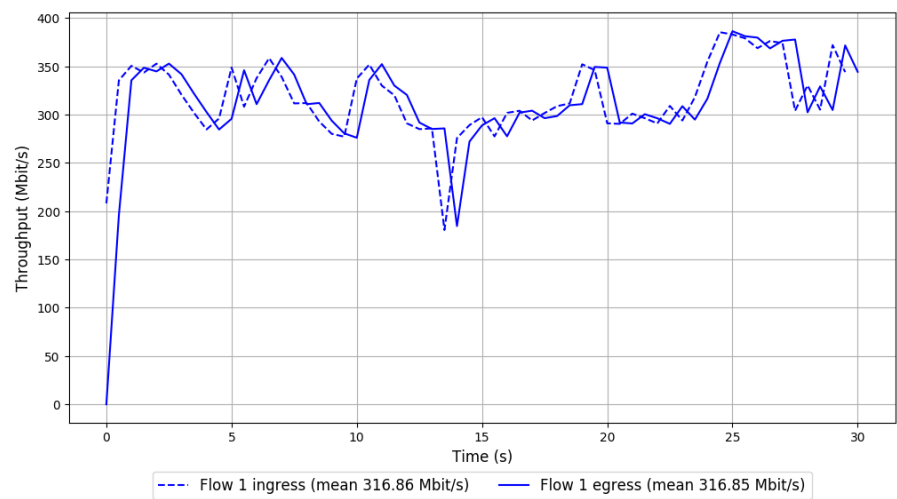
-- Flow 1:

Average throughput: 316.85 Mbit/s

95th percentile per-packet one-way delay: 18.447 ms

Loss rate: 0.07%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-10-03 07:08:59

End at: 2019-10-03 07:09:29

Local clock offset: 4.796 ms

Remote clock offset: 0.322 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 782.31 Mbit/s

95th percentile per-packet one-way delay: 11.364 ms

Loss rate: 0.02%

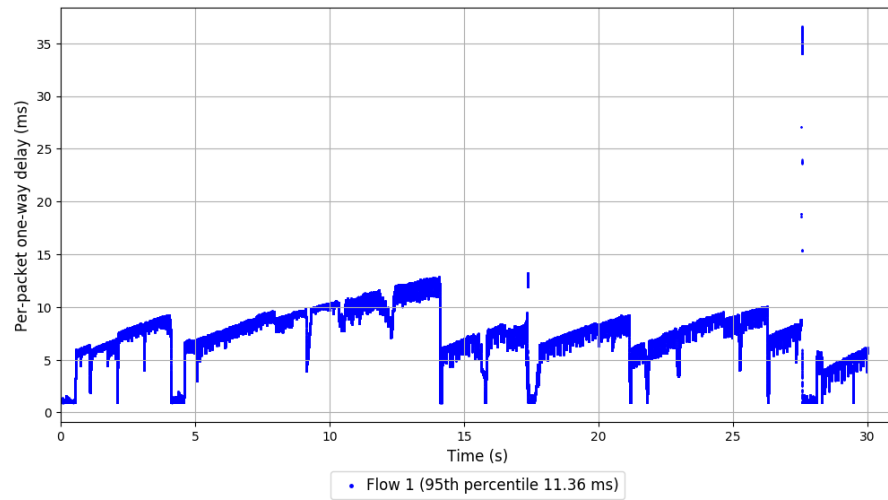
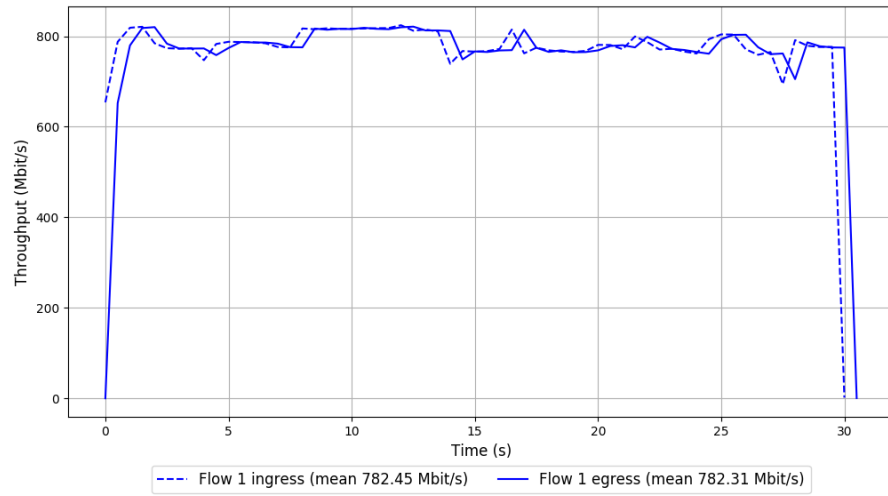
-- Flow 1:

Average throughput: 782.31 Mbit/s

95th percentile per-packet one-way delay: 11.364 ms

Loss rate: 0.02%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-10-03 07:43:10

End at: 2019-10-03 07:43:40

Local clock offset: 5.704 ms

Remote clock offset: 0.451 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 729.00 Mbit/s

95th percentile per-packet one-way delay: 18.903 ms

Loss rate: 0.07%

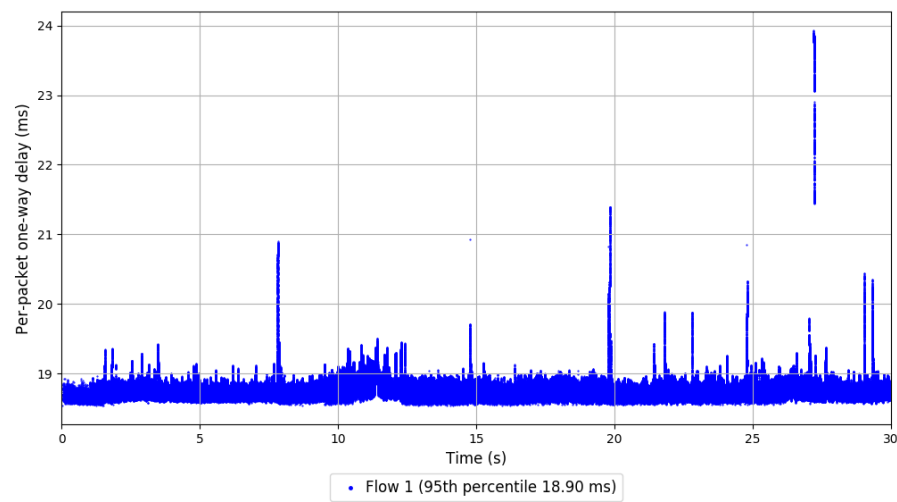
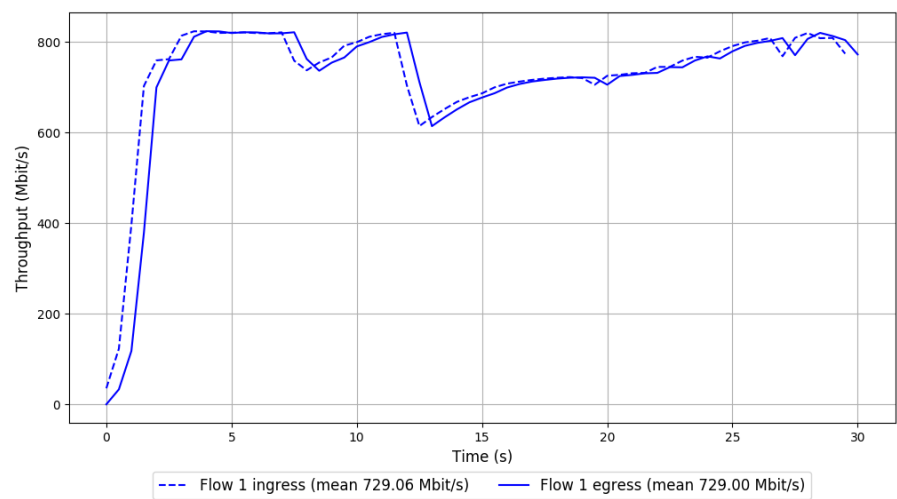
-- Flow 1:

Average throughput: 729.00 Mbit/s

95th percentile per-packet one-way delay: 18.903 ms

Loss rate: 0.07%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2019-10-03 08:17:49

End at: 2019-10-03 08:18:19

Local clock offset: 6.38 ms

Remote clock offset: 0.275 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 652.90 Mbit/s

95th percentile per-packet one-way delay: 19.443 ms

Loss rate: 0.10%

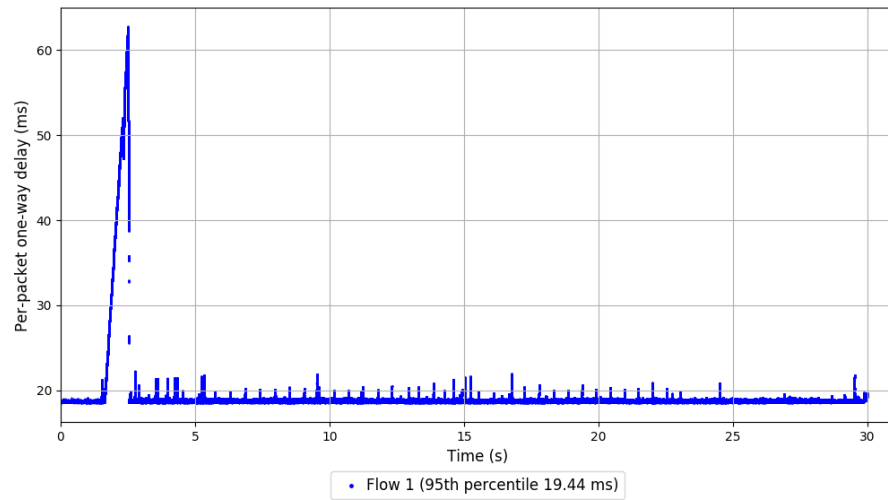
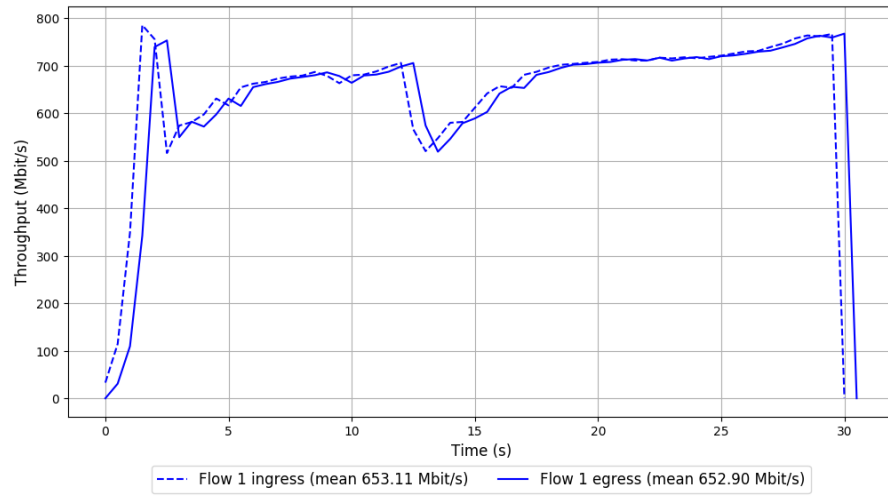
-- Flow 1:

Average throughput: 652.90 Mbit/s

95th percentile per-packet one-way delay: 19.443 ms

Loss rate: 0.10%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-10-03 08:51:25

End at: 2019-10-03 08:51:55

Local clock offset: 3.328 ms

Remote clock offset: 0.011 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 766.65 Mbit/s

95th percentile per-packet one-way delay: 9.790 ms

Loss rate: 0.04%

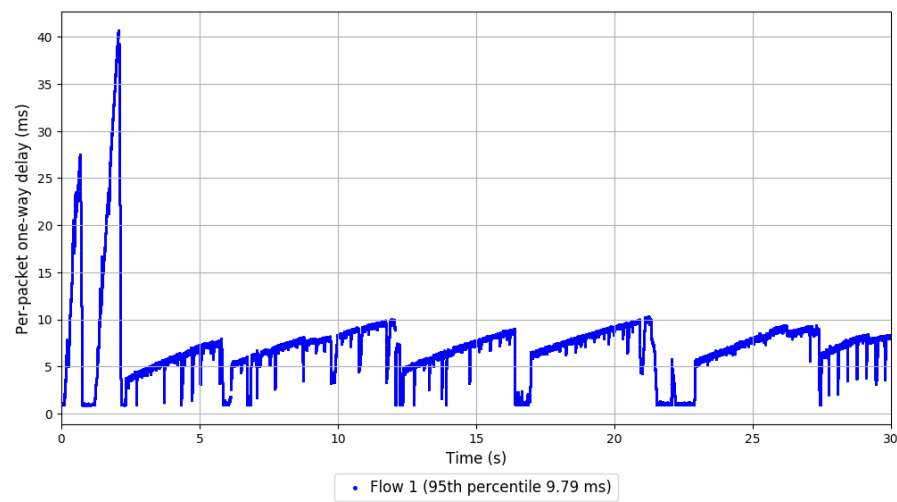
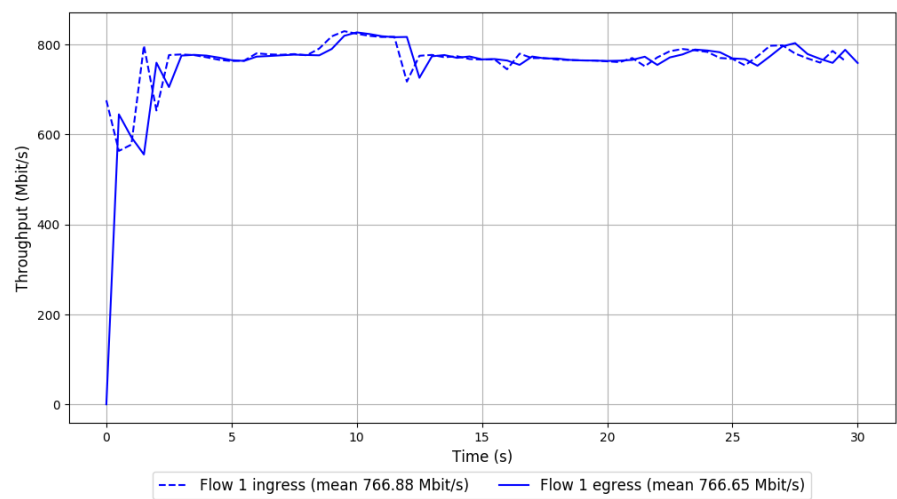
-- Flow 1:

Average throughput: 766.65 Mbit/s

95th percentile per-packet one-way delay: 9.790 ms

Loss rate: 0.04%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-10-03 09:25:21

End at: 2019-10-03 09:25:51

Local clock offset: 2.415 ms

Remote clock offset: 0.074 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 758.87 Mbit/s

95th percentile per-packet one-way delay: 15.481 ms

Loss rate: 0.05%

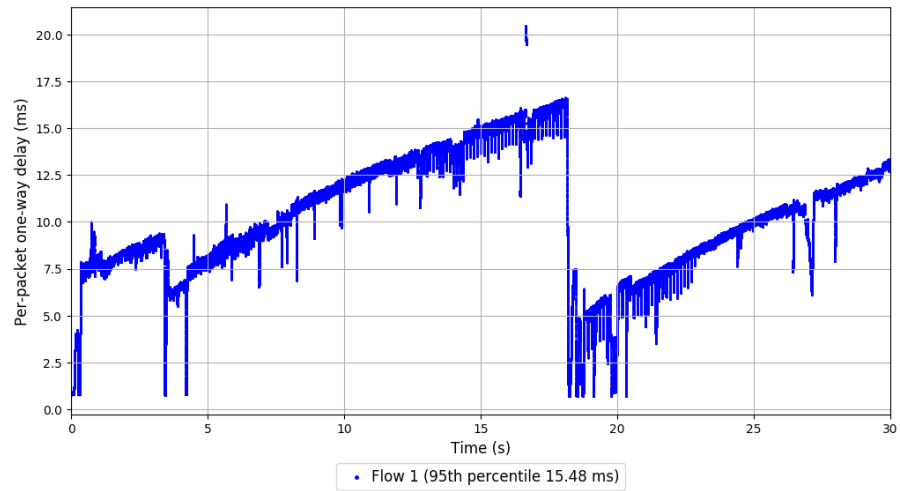
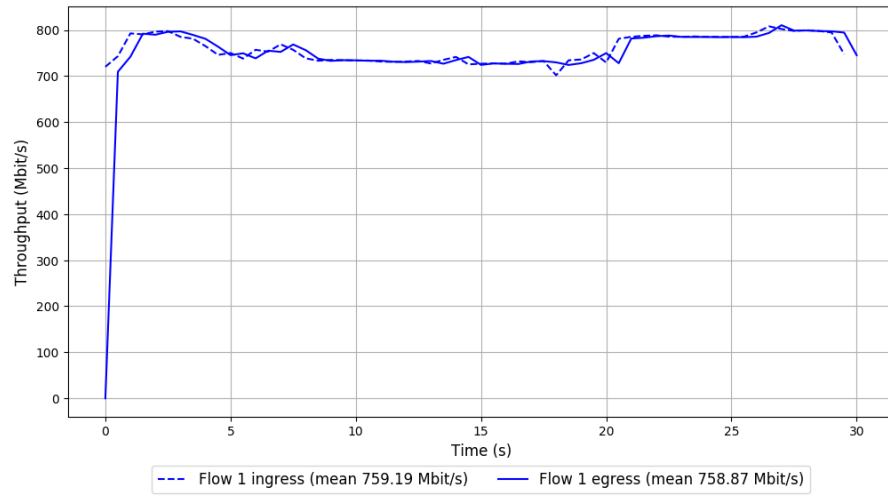
-- Flow 1:

Average throughput: 758.87 Mbit/s

95th percentile per-packet one-way delay: 15.481 ms

Loss rate: 0.05%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-10-03 07:24:51

End at: 2019-10-03 07:25:21

Local clock offset: 5.134 ms

Remote clock offset: 0.332 ms

Below is generated by plot.py at 2019-10-03 10:13:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 929.65 Mbit/s

95th percentile per-packet one-way delay: 30.595 ms

Loss rate: 0.07%

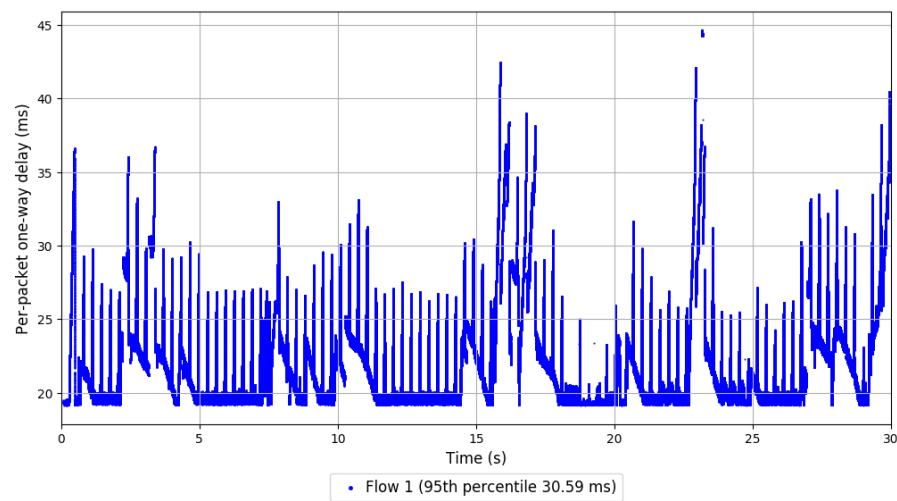
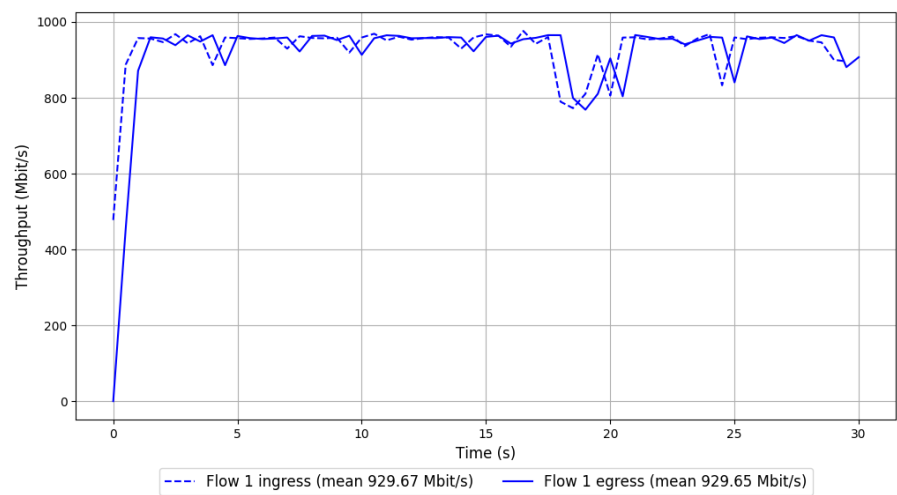
-- Flow 1:

Average throughput: 929.65 Mbit/s

95th percentile per-packet one-way delay: 30.595 ms

Loss rate: 0.07%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-10-03 07:58:50

End at: 2019-10-03 07:59:20

Local clock offset: 6.033 ms

Remote clock offset: 0.255 ms

Below is generated by plot.py at 2019-10-03 10:18:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 912.36 Mbit/s

95th percentile per-packet one-way delay: 9.581 ms

Loss rate: 0.01%

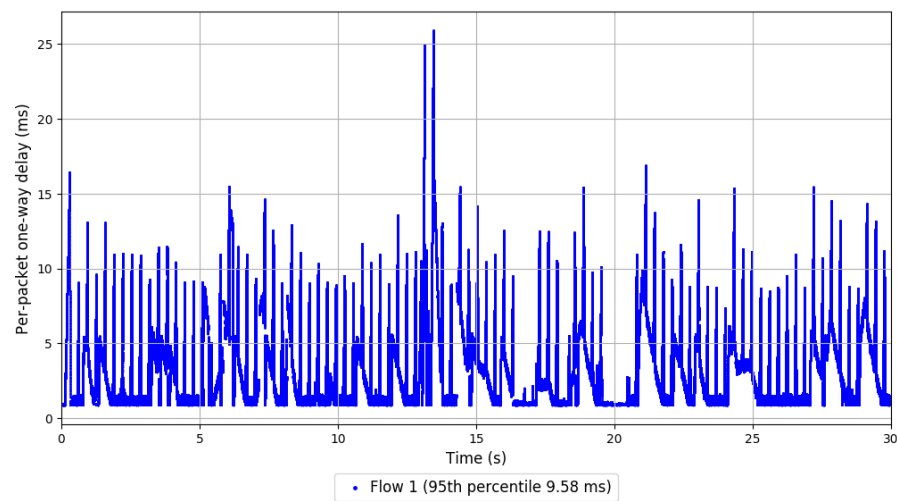
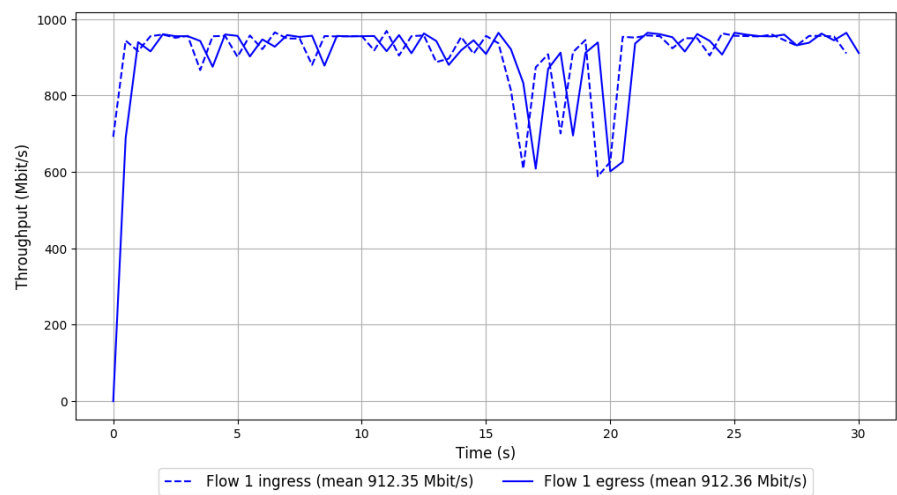
-- Flow 1:

Average throughput: 912.36 Mbit/s

95th percentile per-packet one-way delay: 9.581 ms

Loss rate: 0.01%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-10-03 08:33:19

End at: 2019-10-03 08:33:49

Local clock offset: 4.651 ms

Remote clock offset: 0.159 ms

Below is generated by plot.py at 2019-10-03 10:20:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 933.28 Mbit/s

95th percentile per-packet one-way delay: 9.486 ms

Loss rate: 0.02%

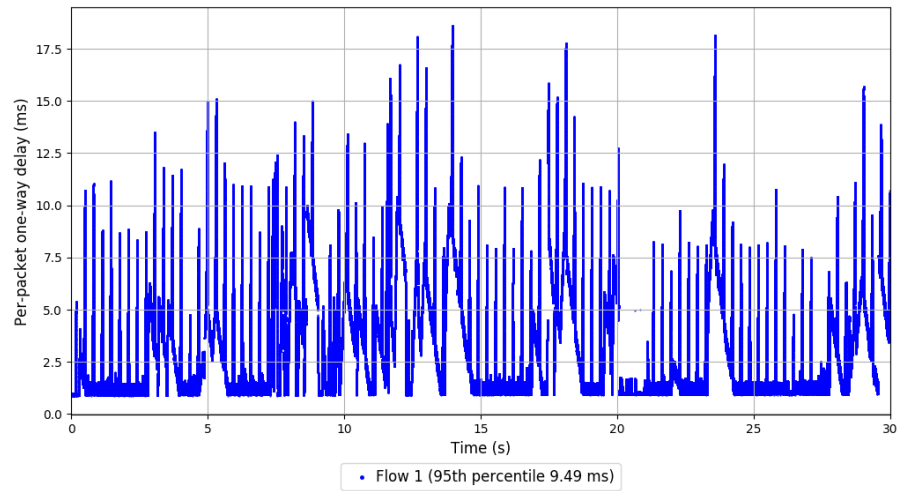
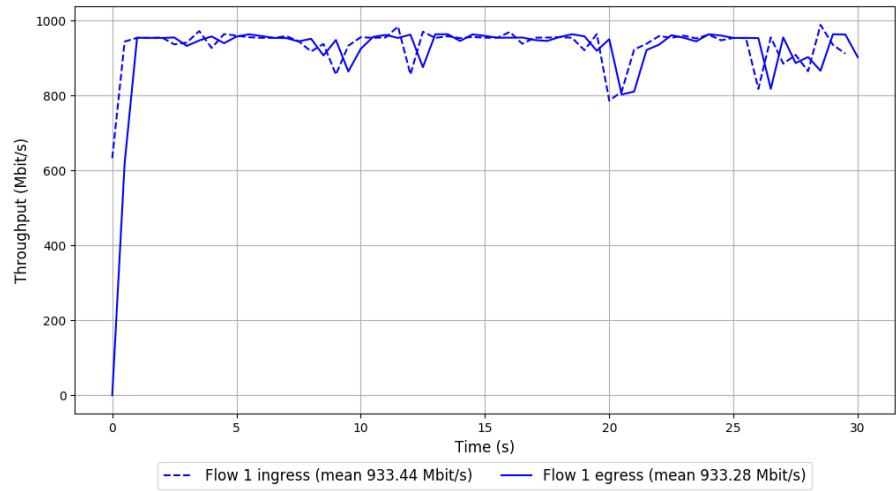
-- Flow 1:

Average throughput: 933.28 Mbit/s

95th percentile per-packet one-way delay: 9.486 ms

Loss rate: 0.02%

Run 3: Report of FillP — Data Link

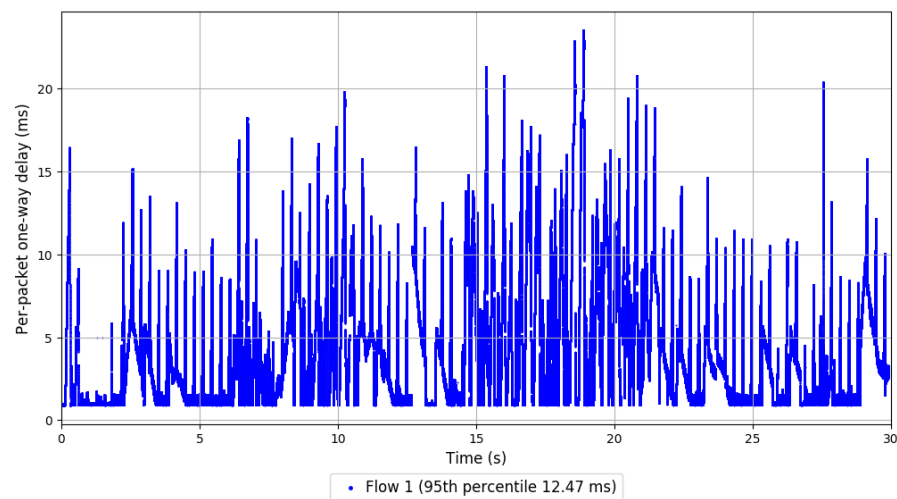
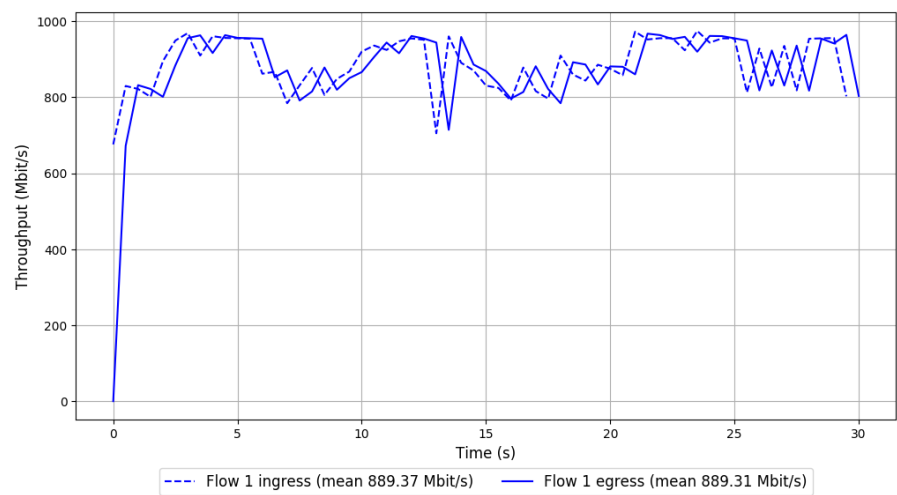


Run 4: Statistics of FillP

Start at: 2019-10-03 09:07:08
End at: 2019-10-03 09:07:38
Local clock offset: 2.819 ms
Remote clock offset: -0.005 ms

Below is generated by plot.py at 2019-10-03 10:20:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 889.31 Mbit/s
95th percentile per-packet one-way delay: 12.474 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 889.31 Mbit/s
95th percentile per-packet one-way delay: 12.474 ms
Loss rate: 0.01%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-10-03 09:40:38

End at: 2019-10-03 09:41:08

Local clock offset: 4.503 ms

Remote clock offset: 0.061 ms

Below is generated by plot.py at 2019-10-03 10:21:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 937.58 Mbit/s

95th percentile per-packet one-way delay: 29.429 ms

Loss rate: 0.07%

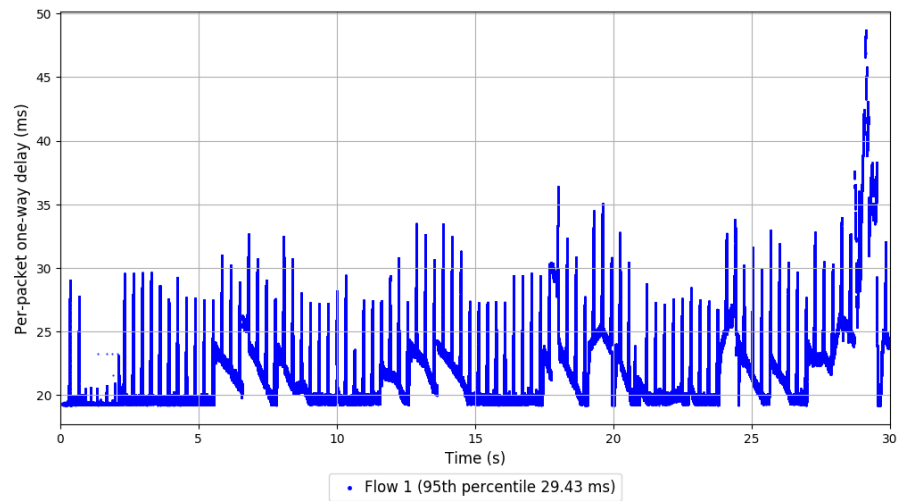
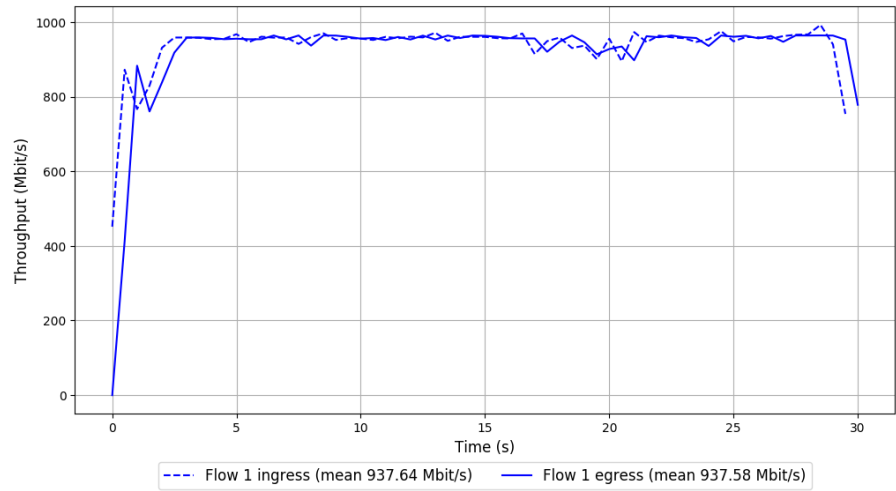
-- Flow 1:

Average throughput: 937.58 Mbit/s

95th percentile per-packet one-way delay: 29.429 ms

Loss rate: 0.07%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-10-03 07:00:25

End at: 2019-10-03 07:00:55

Local clock offset: 4.438 ms

Remote clock offset: 0.108 ms

Below is generated by plot.py at 2019-10-03 10:21:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 793.20 Mbit/s

95th percentile per-packet one-way delay: 16.664 ms

Loss rate: 0.07%

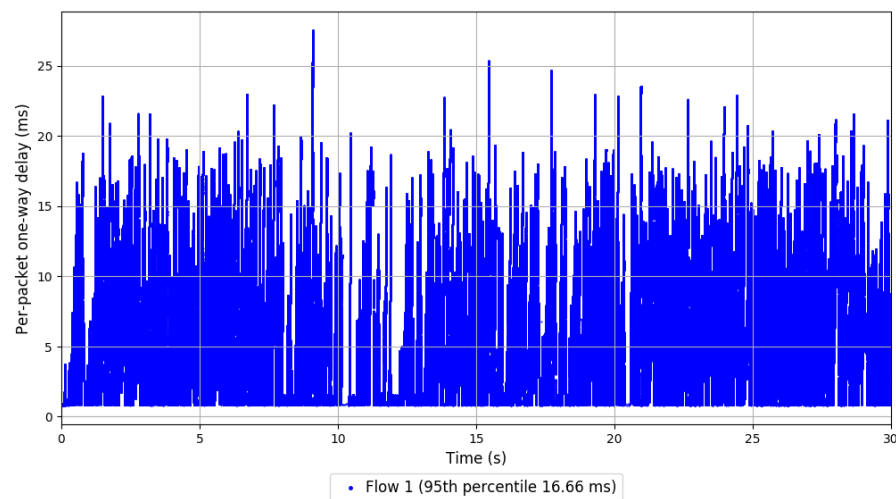
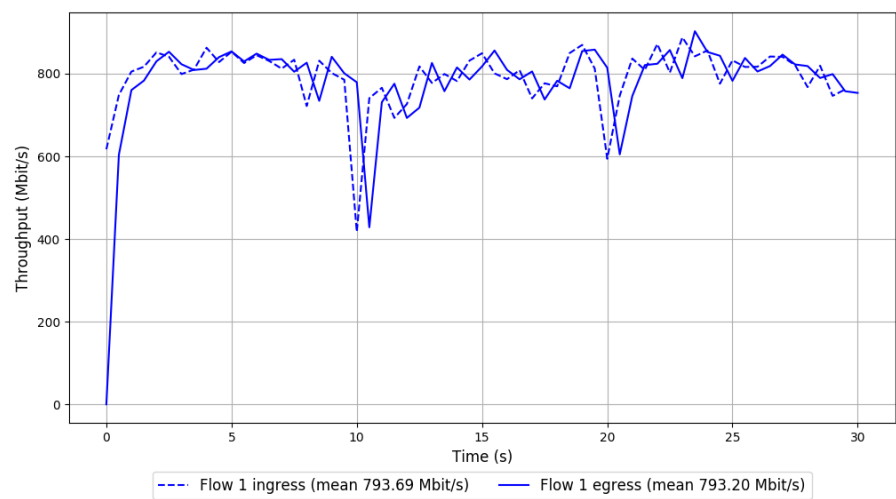
-- Flow 1:

Average throughput: 793.20 Mbit/s

95th percentile per-packet one-way delay: 16.664 ms

Loss rate: 0.07%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-10-03 07:34:59

End at: 2019-10-03 07:35:29

Local clock offset: 5.453 ms

Remote clock offset: 0.313 ms

Below is generated by plot.py at 2019-10-03 10:22:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 913.19 Mbit/s

95th percentile per-packet one-way delay: 5.657 ms

Loss rate: 0.01%

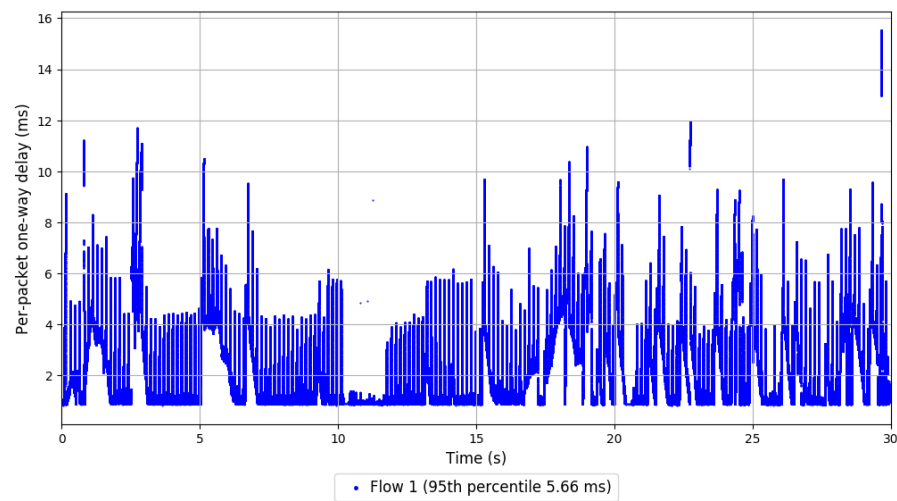
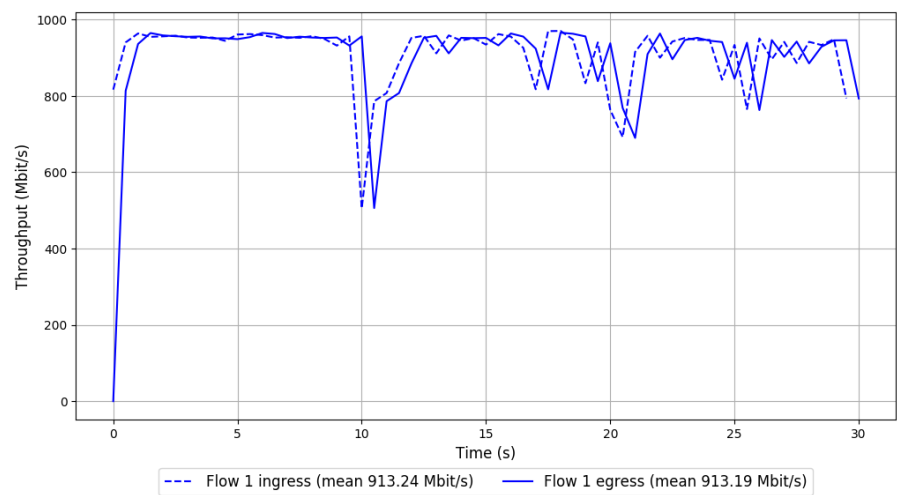
-- Flow 1:

Average throughput: 913.19 Mbit/s

95th percentile per-packet one-way delay: 5.657 ms

Loss rate: 0.01%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-10-03 08:09:24

End at: 2019-10-03 08:09:54

Local clock offset: 6.251 ms

Remote clock offset: 0.216 ms

Below is generated by plot.py at 2019-10-03 10:22:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 894.49 Mbit/s

95th percentile per-packet one-way delay: 42.292 ms

Loss rate: 0.12%

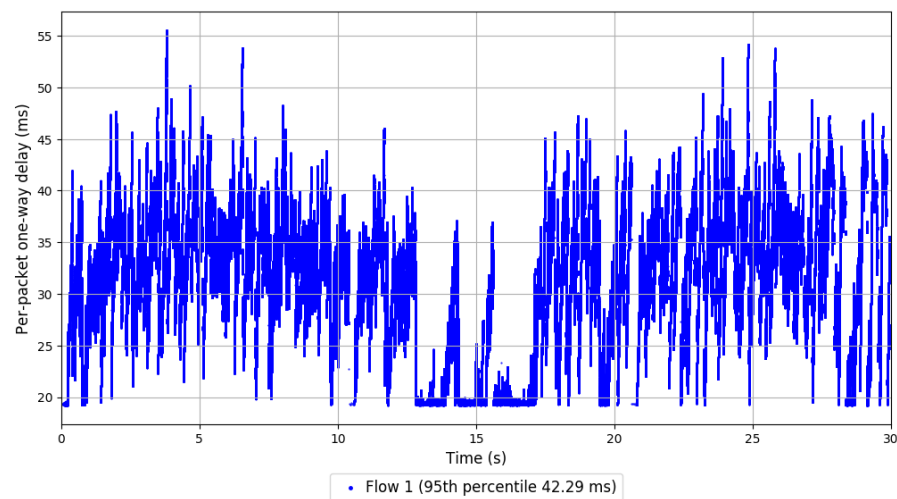
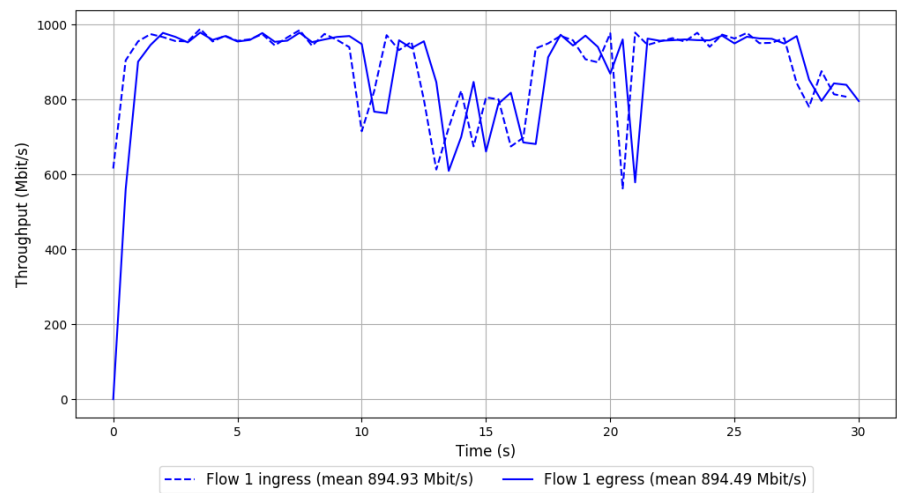
-- Flow 1:

Average throughput: 894.49 Mbit/s

95th percentile per-packet one-way delay: 42.292 ms

Loss rate: 0.12%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-10-03 08:43:35

End at: 2019-10-03 08:44:05

Local clock offset: 3.734 ms

Remote clock offset: 0.007 ms

Below is generated by plot.py at 2019-10-03 10:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 852.37 Mbit/s

95th percentile per-packet one-way delay: 49.030 ms

Loss rate: 0.25%

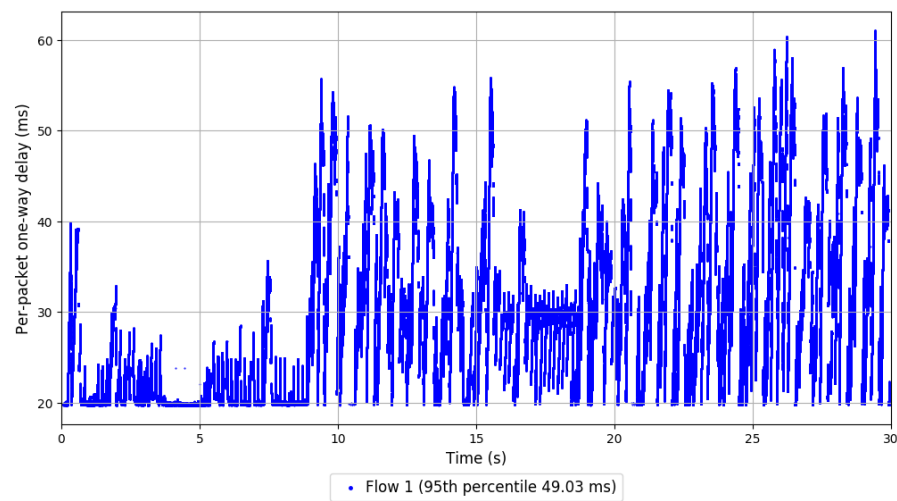
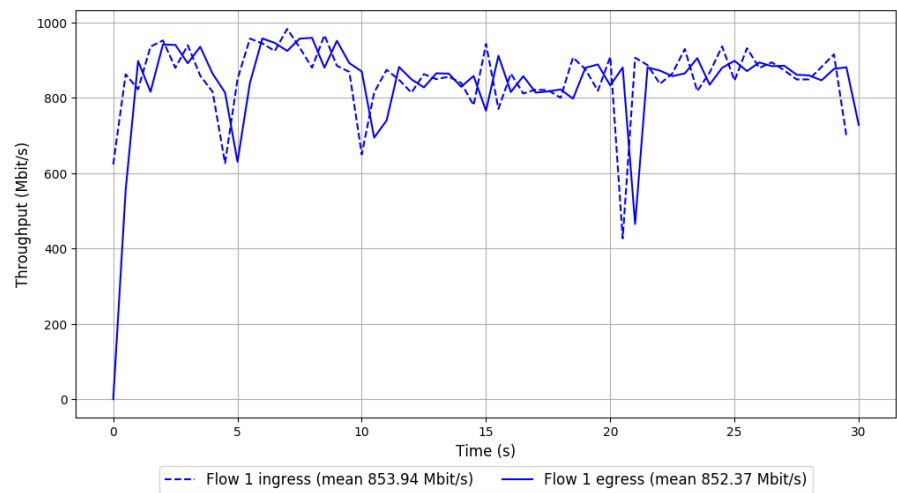
-- Flow 1:

Average throughput: 852.37 Mbit/s

95th percentile per-packet one-way delay: 49.030 ms

Loss rate: 0.25%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-10-03 09:17:24

End at: 2019-10-03 09:17:54

Local clock offset: 2.452 ms

Remote clock offset: 0.068 ms

Below is generated by plot.py at 2019-10-03 10:29:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 738.59 Mbit/s

95th percentile per-packet one-way delay: 15.619 ms

Loss rate: 0.05%

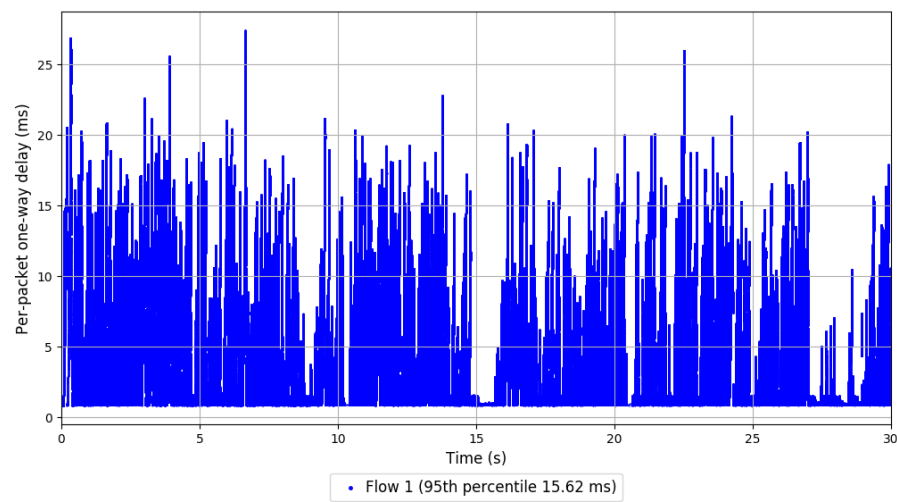
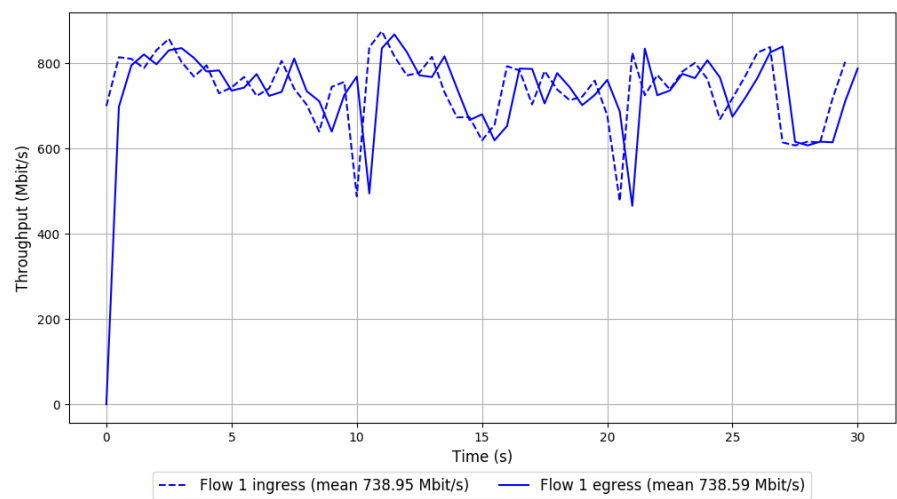
-- Flow 1:

Average throughput: 738.59 Mbit/s

95th percentile per-packet one-way delay: 15.619 ms

Loss rate: 0.05%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-10-03 06:56:06

End at: 2019-10-03 06:56:36

Local clock offset: 4.175 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2019-10-03 10:29:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.24 Mbit/s

95th percentile per-packet one-way delay: 18.991 ms

Loss rate: 0.07%

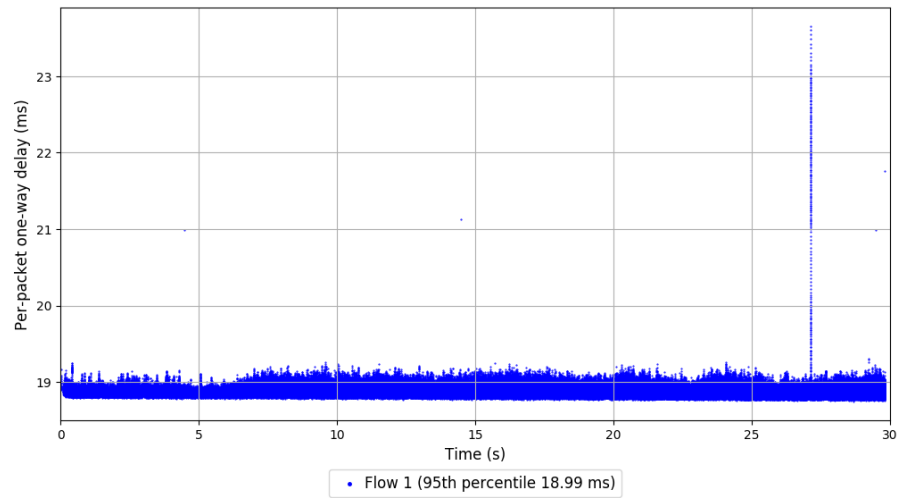
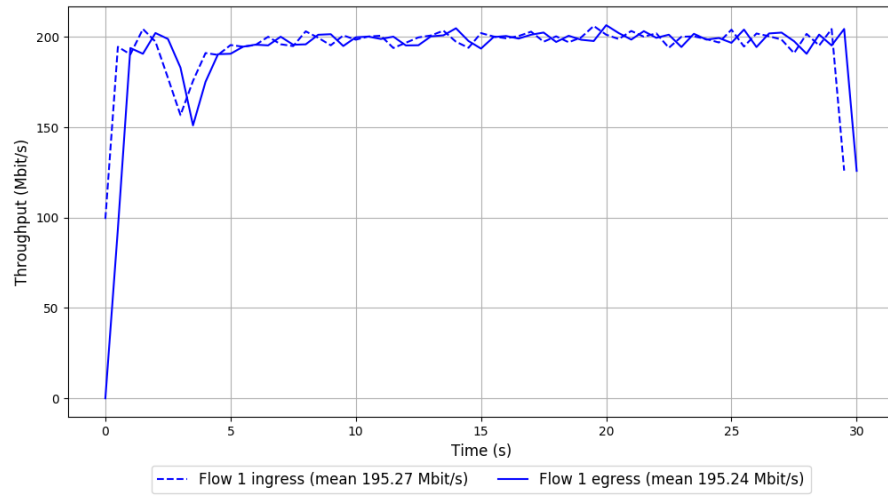
-- Flow 1:

Average throughput: 195.24 Mbit/s

95th percentile per-packet one-way delay: 18.991 ms

Loss rate: 0.07%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-10-03 07:30:33

End at: 2019-10-03 07:31:03

Local clock offset: 5.327 ms

Remote clock offset: 0.315 ms

Below is generated by plot.py at 2019-10-03 10:29:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.84 Mbit/s

95th percentile per-packet one-way delay: 19.199 ms

Loss rate: 0.07%

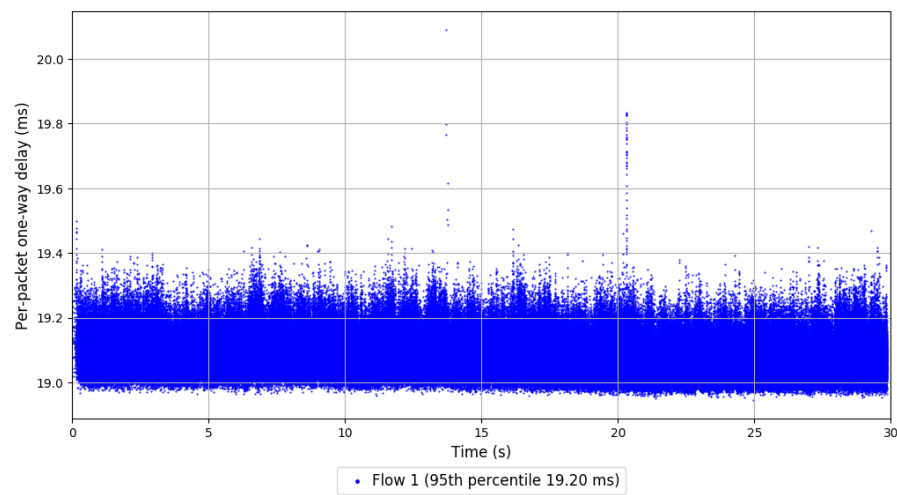
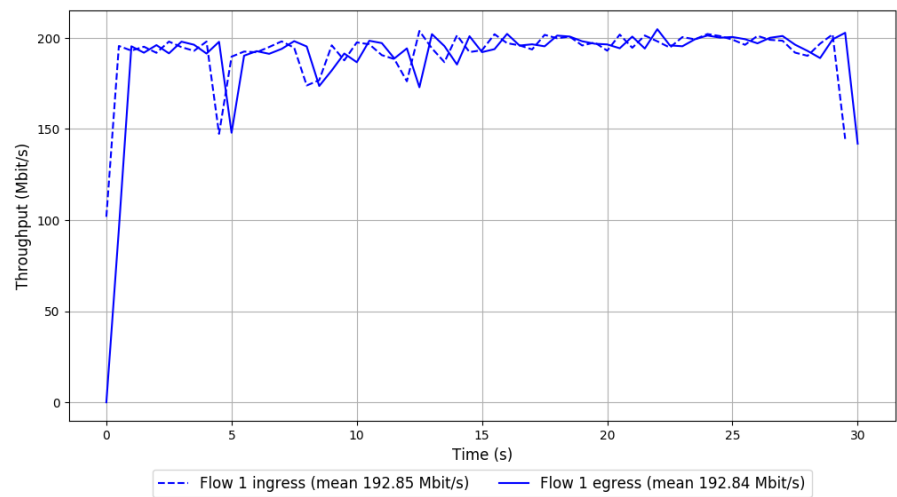
-- Flow 1:

Average throughput: 192.84 Mbit/s

95th percentile per-packet one-way delay: 19.199 ms

Loss rate: 0.07%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-10-03 08:05:00

End at: 2019-10-03 08:05:30

Local clock offset: 6.149 ms

Remote clock offset: 0.185 ms

Below is generated by plot.py at 2019-10-03 10:29:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.24 Mbit/s

95th percentile per-packet one-way delay: 19.281 ms

Loss rate: 0.07%

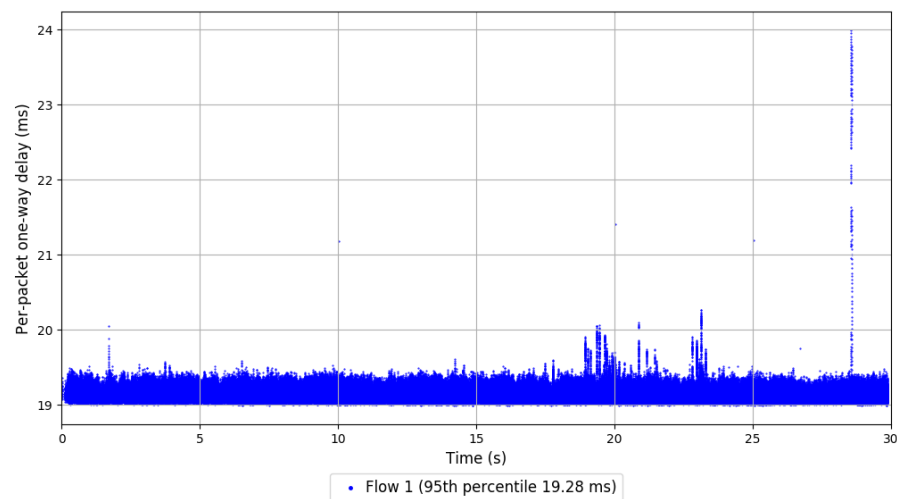
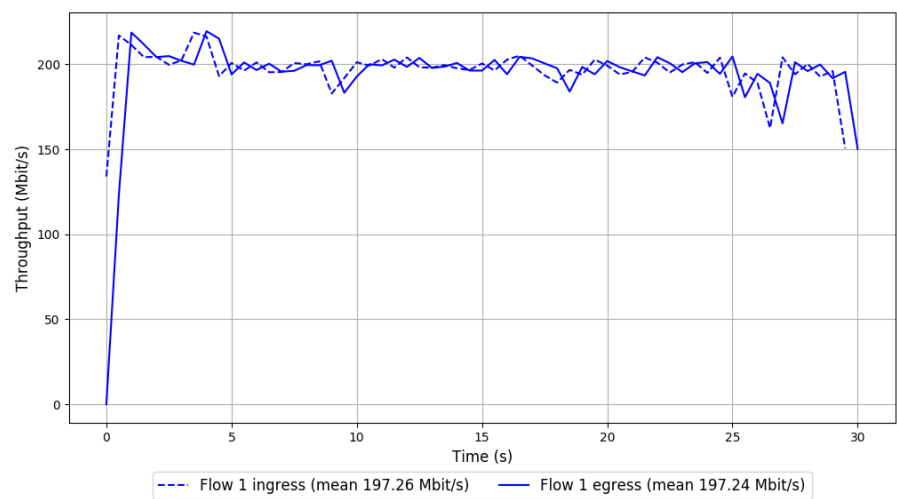
-- Flow 1:

Average throughput: 197.24 Mbit/s

95th percentile per-packet one-way delay: 19.281 ms

Loss rate: 0.07%

Run 3: Report of Indigo — Data Link

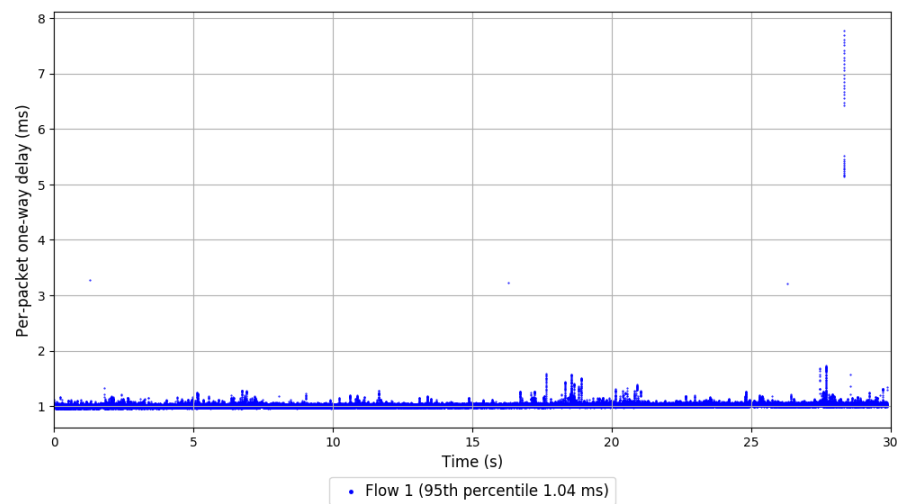
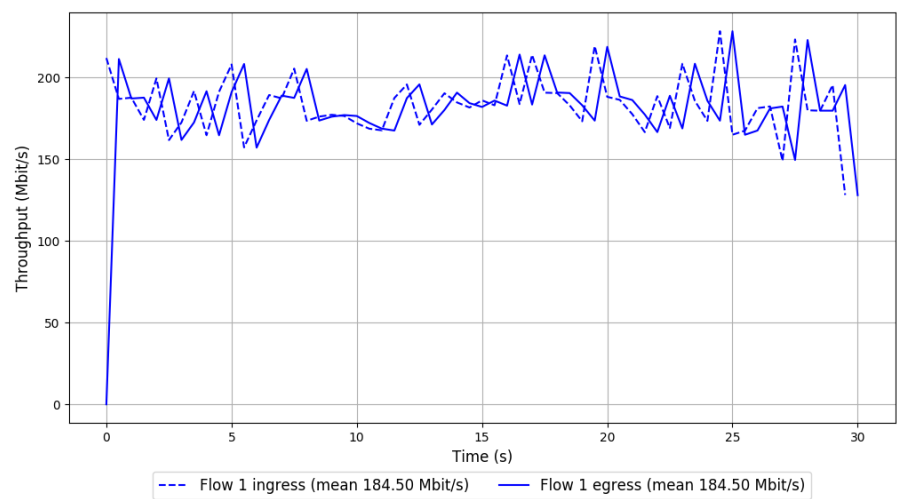


Run 4: Statistics of Indigo

Start at: 2019-10-03 08:39:14
End at: 2019-10-03 08:39:44
Local clock offset: 4.034 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2019-10-03 10:29:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 184.50 Mbit/s
95th percentile per-packet one-way delay: 1.037 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 184.50 Mbit/s
95th percentile per-packet one-way delay: 1.037 ms
Loss rate: 0.01%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-10-03 09:13:09

End at: 2019-10-03 09:13:39

Local clock offset: 2.602 ms

Remote clock offset: 0.015 ms

Below is generated by plot.py at 2019-10-03 10:29:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.34 Mbit/s

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

Loss rate: 0.01%

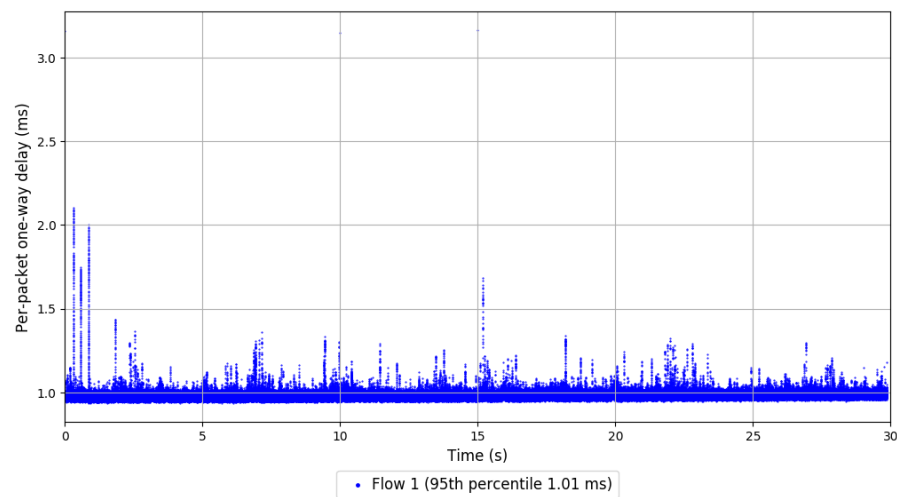
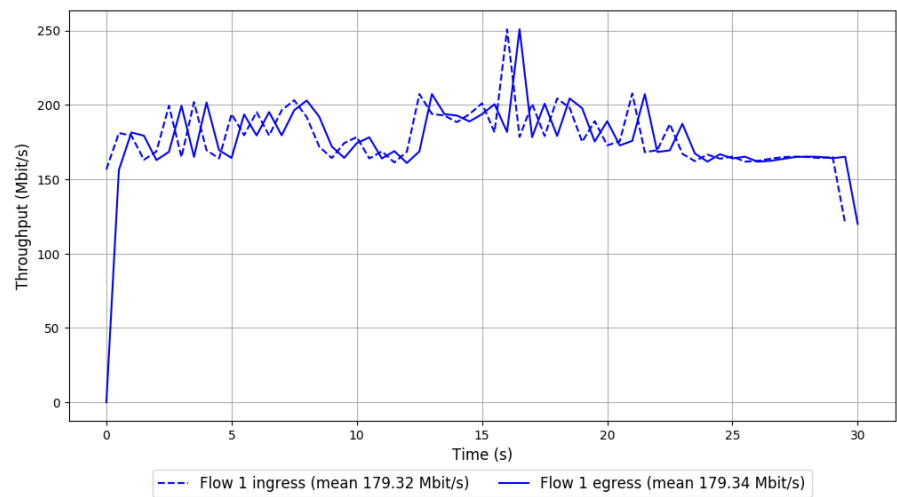
-- Flow 1:

Average throughput: 179.34 Mbit/s

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

Loss rate: 0.01%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-10-03 06:59:03

End at: 2019-10-03 06:59:33

Local clock offset: 4.39 ms

Remote clock offset: 0.024 ms

Below is generated by plot.py at 2019-10-03 10:29:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 259.15 Mbit/s

95th percentile per-packet one-way delay: 1.022 ms

Loss rate: 0.00%

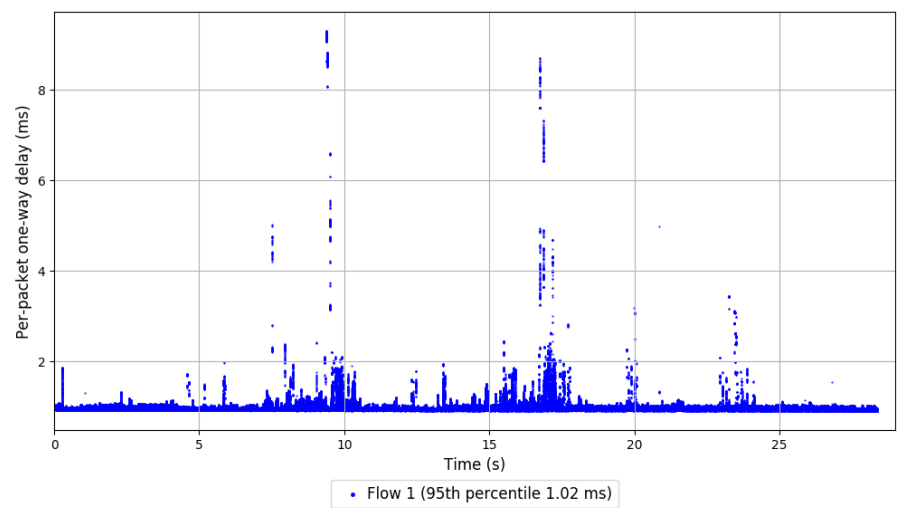
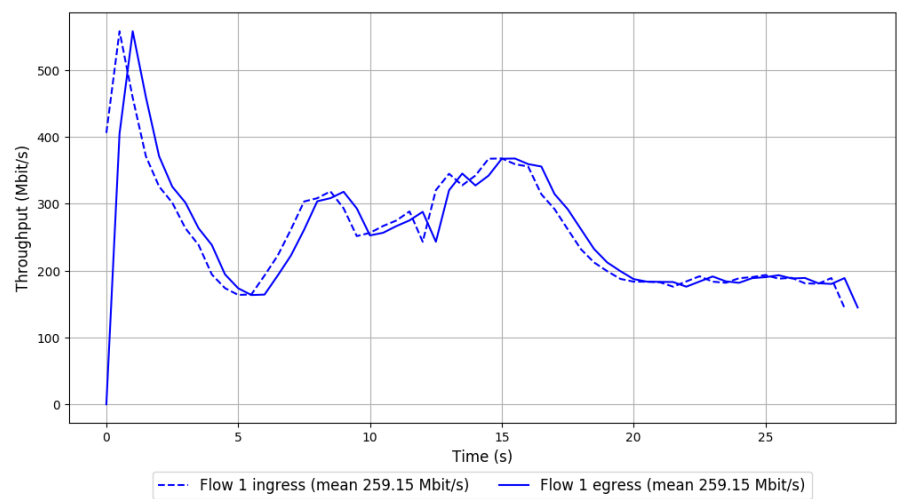
-- Flow 1:

Average throughput: 259.15 Mbit/s

95th percentile per-packet one-way delay: 1.022 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-10-03 07:33:31

End at: 2019-10-03 07:34:01

Local clock offset: 5.432 ms

Remote clock offset: 0.339 ms

Below is generated by plot.py at 2019-10-03 10:29:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 465.50 Mbit/s

95th percentile per-packet one-way delay: 19.404 ms

Loss rate: 0.09%

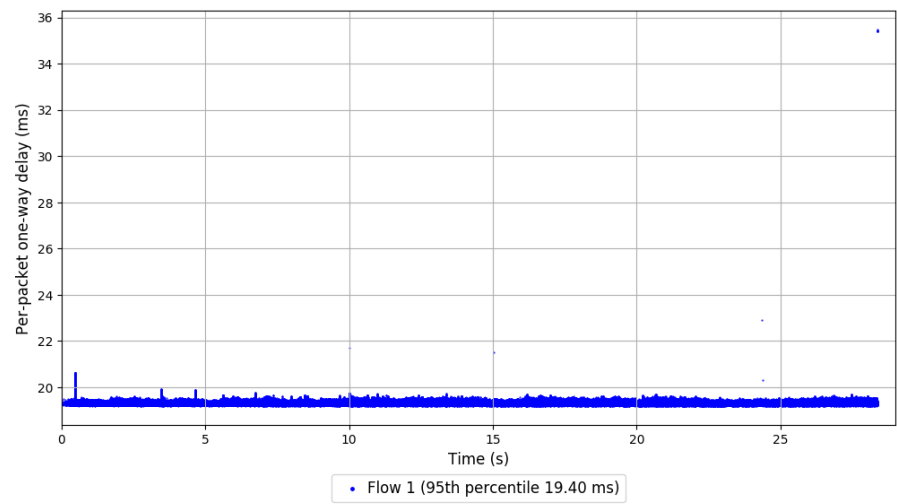
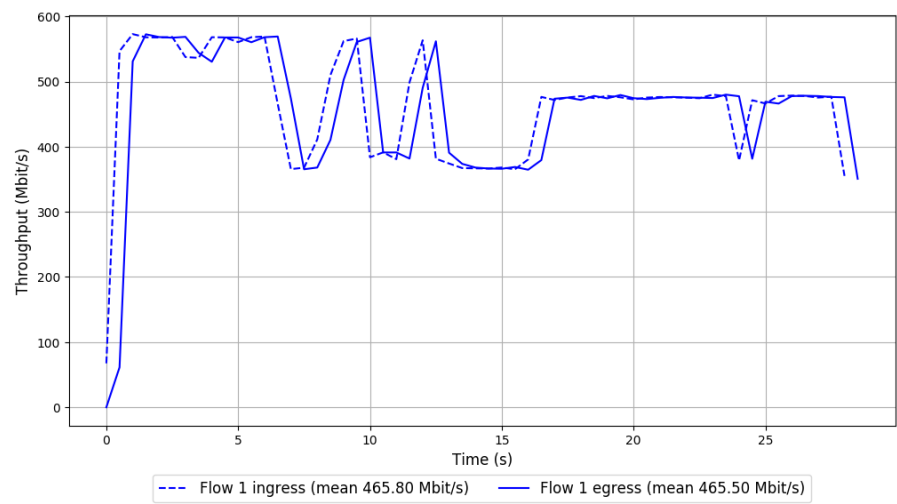
-- Flow 1:

Average throughput: 465.50 Mbit/s

95th percentile per-packet one-way delay: 19.404 ms

Loss rate: 0.09%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-10-03 08:07:55

End at: 2019-10-03 08:08:25

Local clock offset: 6.21 ms

Remote clock offset: 0.147 ms

Below is generated by plot.py at 2019-10-03 10:29:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 478.73 Mbit/s

95th percentile per-packet one-way delay: 19.475 ms

Loss rate: 0.07%

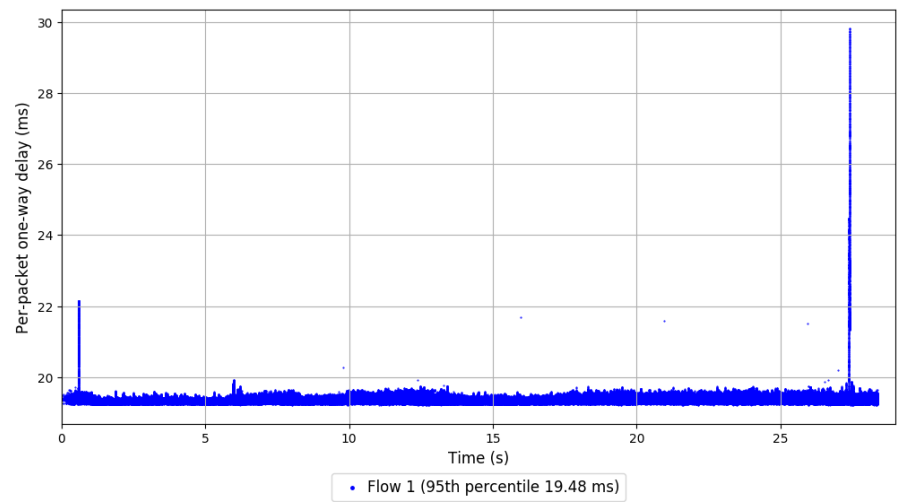
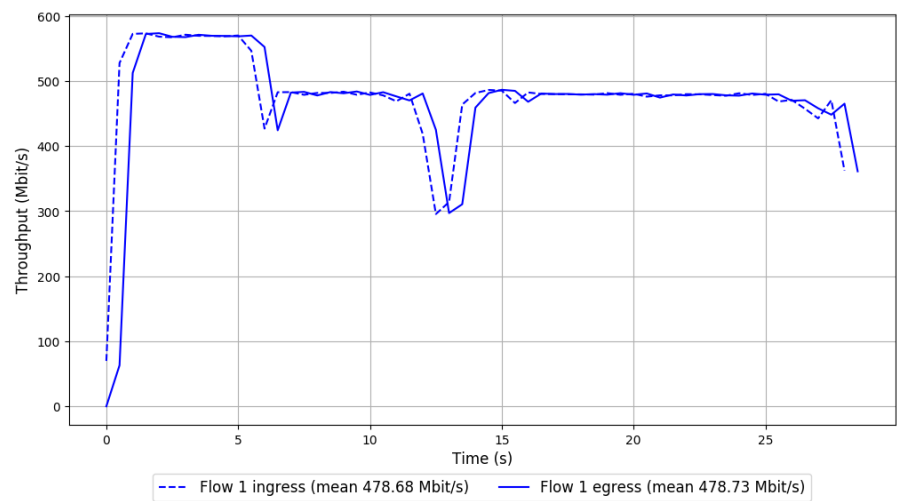
-- Flow 1:

Average throughput: 478.73 Mbit/s

95th percentile per-packet one-way delay: 19.475 ms

Loss rate: 0.07%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-10-03 08:42:07

End at: 2019-10-03 08:42:37

Local clock offset: 3.822 ms

Remote clock offset: 0.062 ms

Below is generated by plot.py at 2019-10-03 10:29:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 455.47 Mbit/s

95th percentile per-packet one-way delay: 18.807 ms

Loss rate: 0.07%

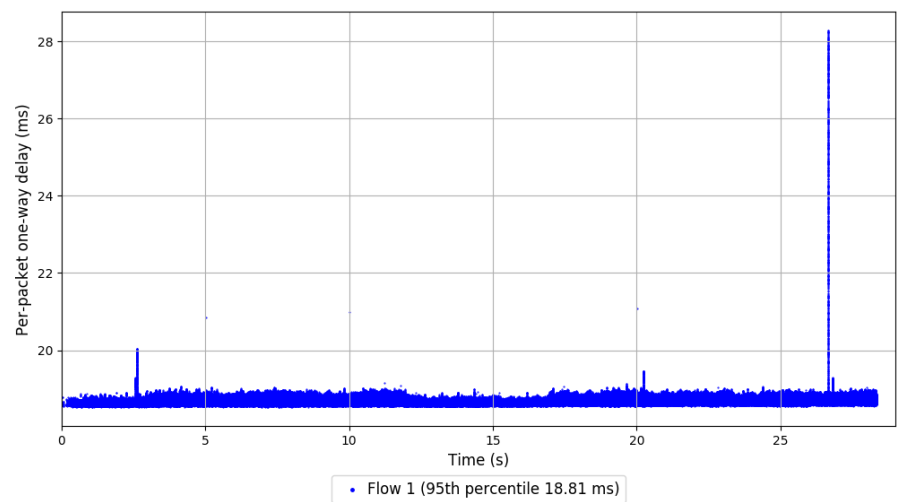
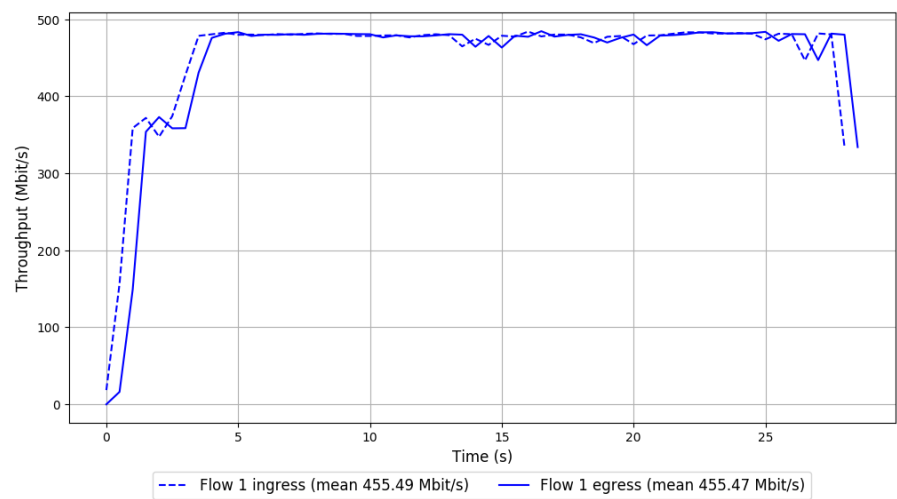
-- Flow 1:

Average throughput: 455.47 Mbit/s

95th percentile per-packet one-way delay: 18.807 ms

Loss rate: 0.07%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-10-03 09:16:03

End at: 2019-10-03 09:16:33

Local clock offset: 2.519 ms

Remote clock offset: 0.04 ms

Below is generated by plot.py at 2019-10-03 10:29:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 234.60 Mbit/s

95th percentile per-packet one-way delay: 1.031 ms

Loss rate: 0.01%

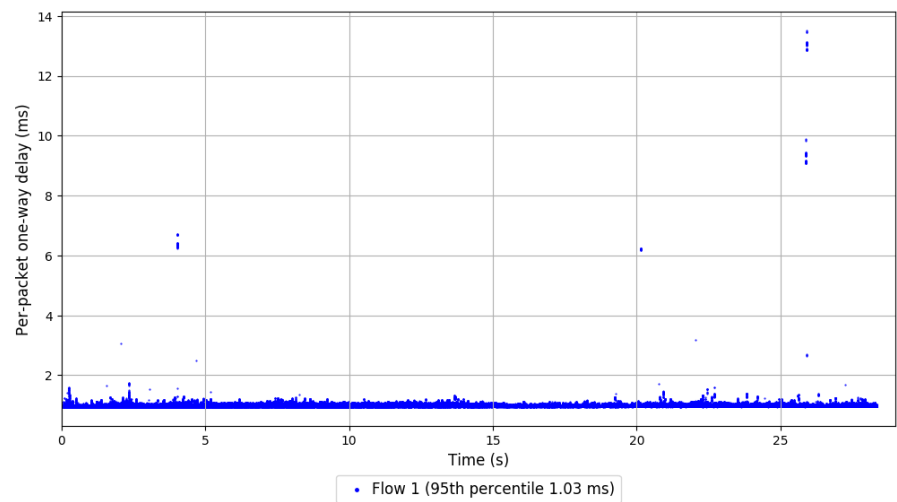
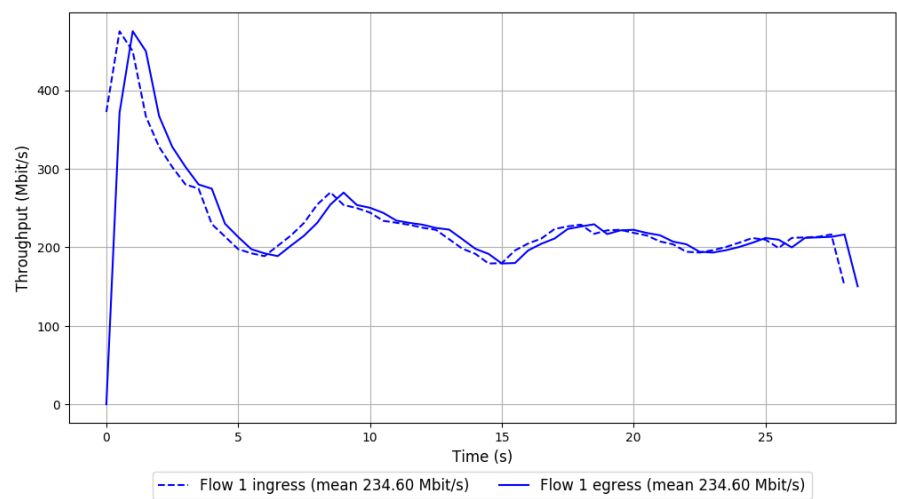
-- Flow 1:

Average throughput: 234.60 Mbit/s

95th percentile per-packet one-way delay: 1.031 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-10-03 07:22:13

End at: 2019-10-03 07:22:43

Local clock offset: 5.115 ms

Remote clock offset: 0.447 ms

Below is generated by plot.py at 2019-10-03 10:29:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 350.18 Mbit/s

95th percentile per-packet one-way delay: 19.192 ms

Loss rate: 0.09%

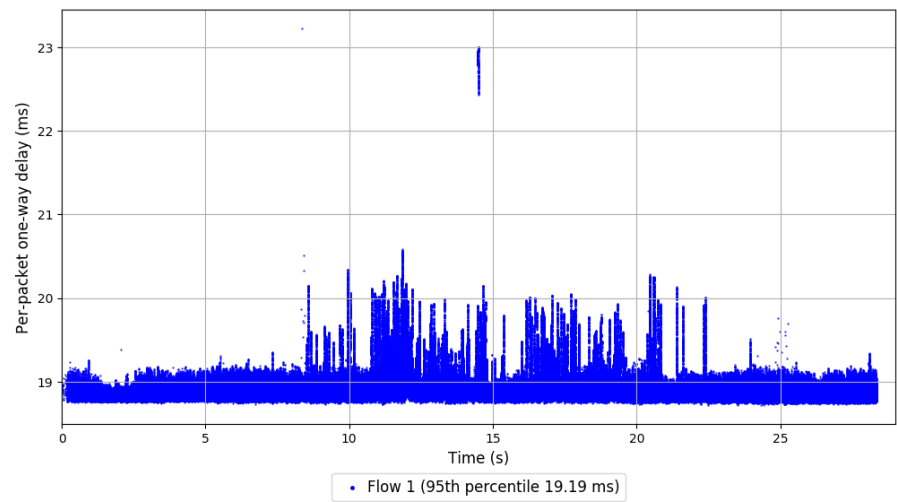
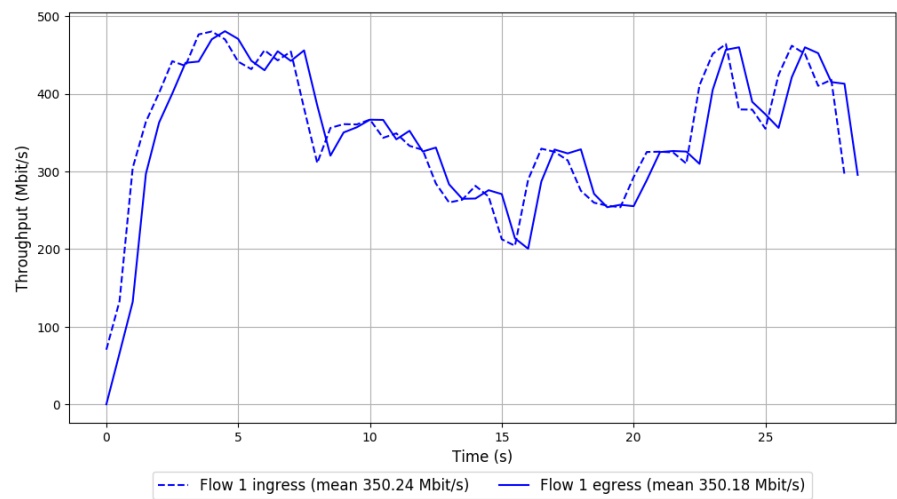
-- Flow 1:

Average throughput: 350.18 Mbit/s

95th percentile per-packet one-way delay: 19.192 ms

Loss rate: 0.09%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-10-03 07:56:10

End at: 2019-10-03 07:56:40

Local clock offset: 5.966 ms

Remote clock offset: 0.352 ms

Below is generated by plot.py at 2019-10-03 10:29:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 423.28 Mbit/s

95th percentile per-packet one-way delay: 19.953 ms

Loss rate: 0.07%

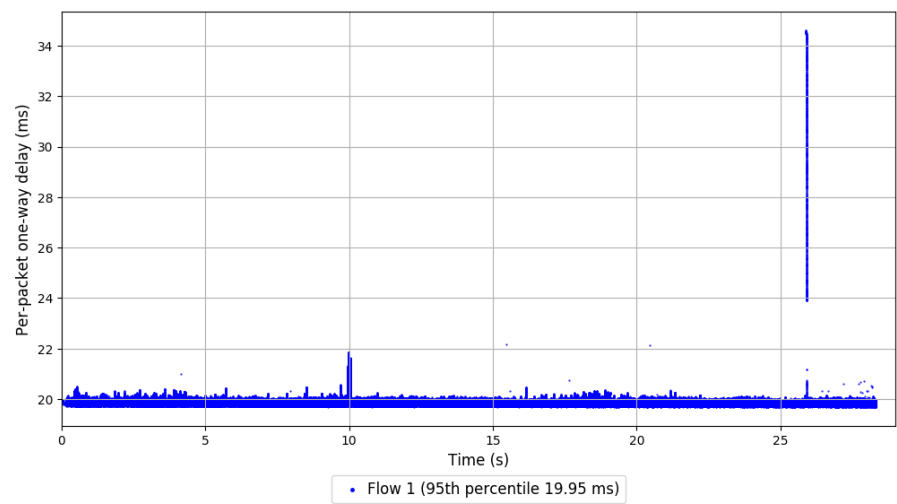
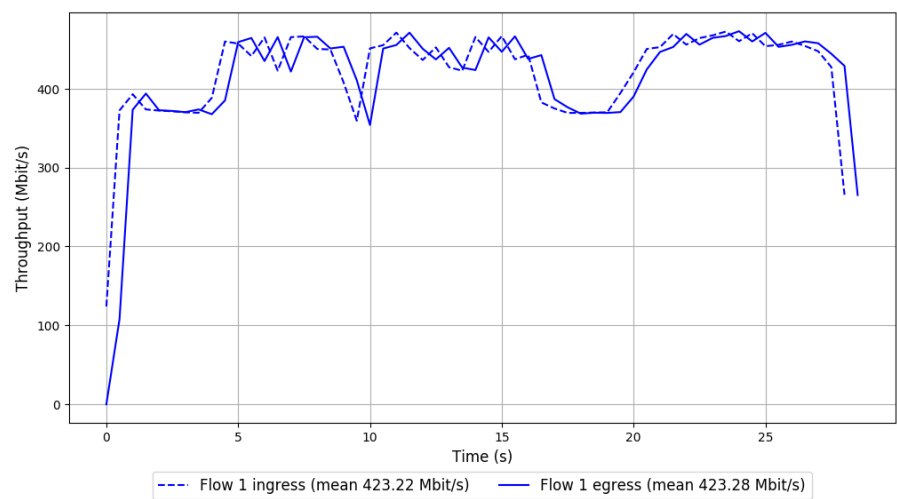
-- Flow 1:

Average throughput: 423.28 Mbit/s

95th percentile per-packet one-way delay: 19.953 ms

Loss rate: 0.07%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-10-03 08:30:40

End at: 2019-10-03 08:31:10

Local clock offset: 5.067 ms

Remote clock offset: 0.161 ms

Below is generated by plot.py at 2019-10-03 10:30:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 397.14 Mbit/s

95th percentile per-packet one-way delay: 19.379 ms

Loss rate: 0.07%

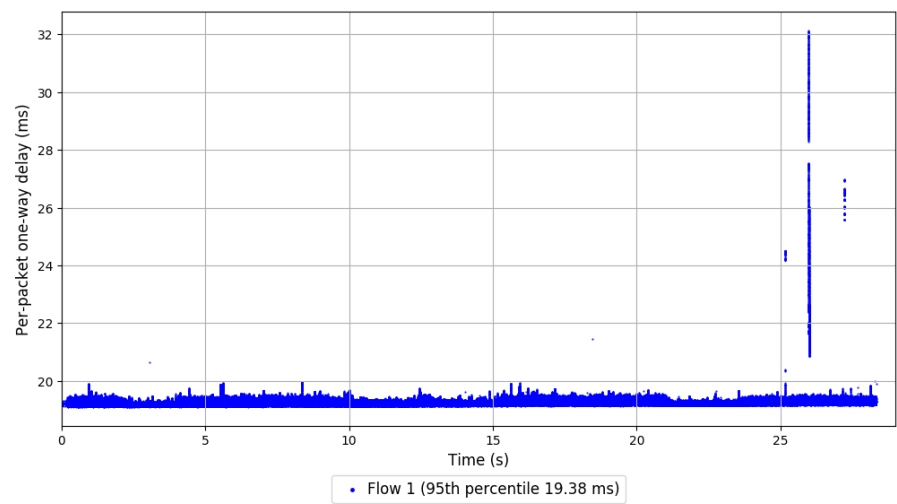
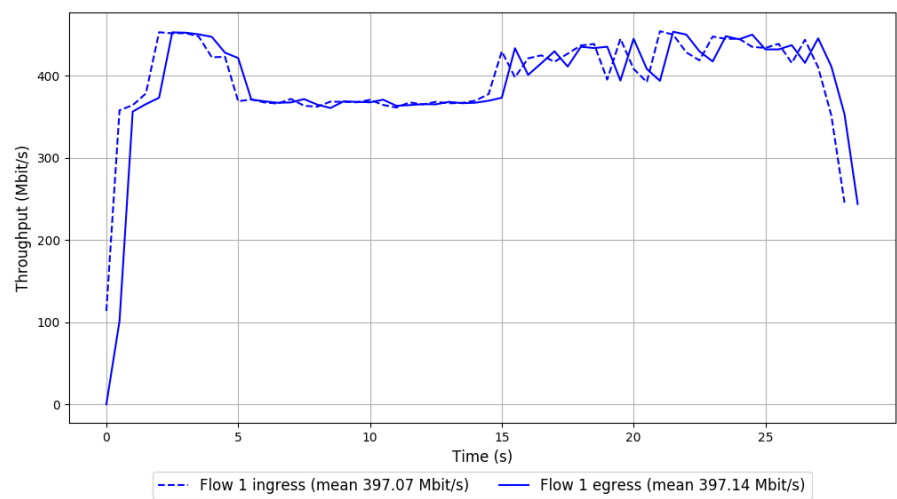
-- Flow 1:

Average throughput: 397.14 Mbit/s

95th percentile per-packet one-way delay: 19.379 ms

Loss rate: 0.07%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-10-03 09:04:28

End at: 2019-10-03 09:04:58

Local clock offset: 2.895 ms

Remote clock offset: 0.084 ms

Below is generated by plot.py at 2019-10-03 10:31:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 420.24 Mbit/s

95th percentile per-packet one-way delay: 19.443 ms

Loss rate: 0.08%

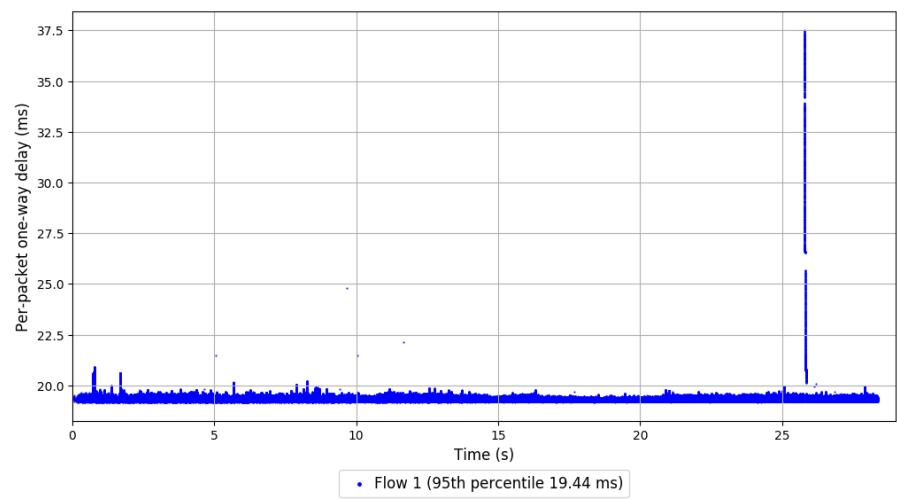
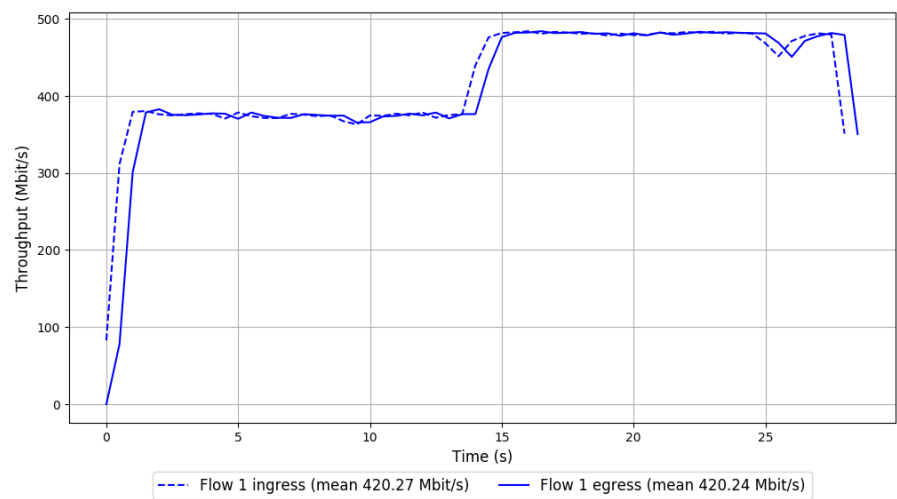
-- Flow 1:

Average throughput: 420.24 Mbit/s

95th percentile per-packet one-way delay: 19.443 ms

Loss rate: 0.08%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-10-03 09:38:07

End at: 2019-10-03 09:38:37

Local clock offset: 4.28 ms

Remote clock offset: 0.088 ms

Below is generated by plot.py at 2019-10-03 10:31:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 382.39 Mbit/s

95th percentile per-packet one-way delay: 18.268 ms

Loss rate: 0.06%

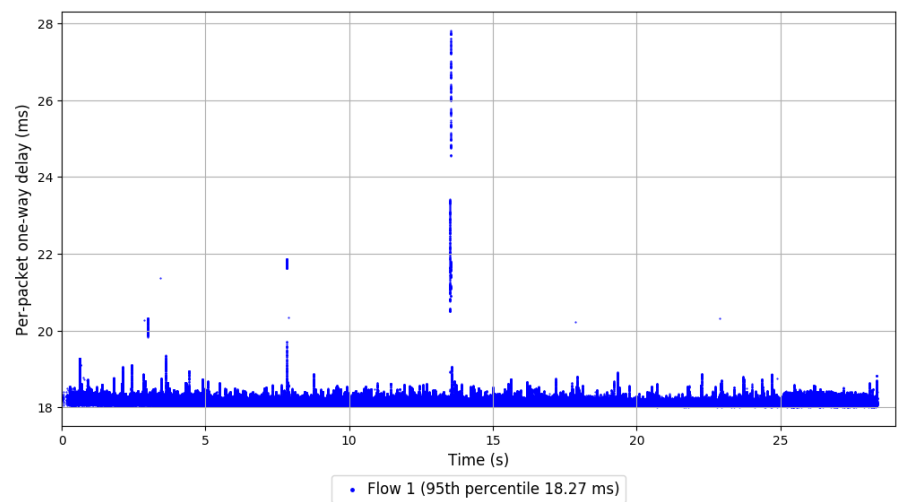
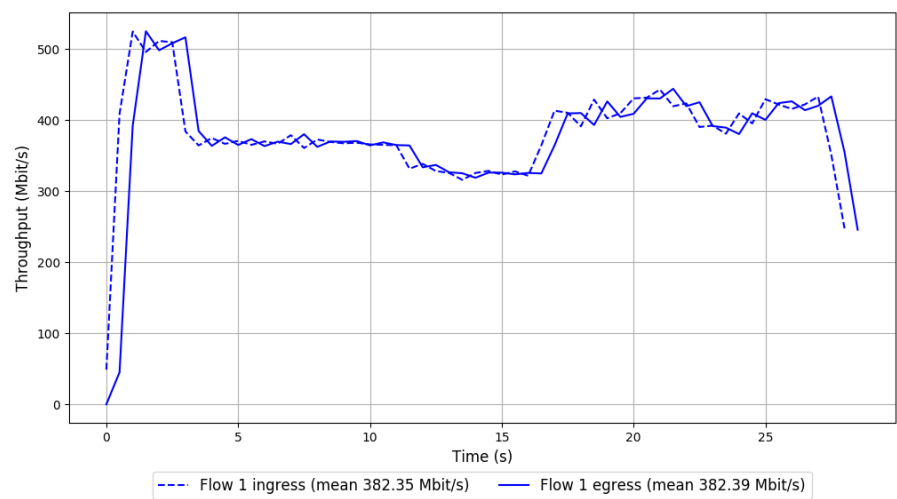
-- Flow 1:

Average throughput: 382.39 Mbit/s

95th percentile per-packet one-way delay: 18.268 ms

Loss rate: 0.06%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-10-03 07:03:27

End at: 2019-10-03 07:03:57

Local clock offset: 4.602 ms

Remote clock offset: 0.127 ms

Below is generated by plot.py at 2019-10-03 10:32:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 462.37 Mbit/s

95th percentile per-packet one-way delay: 19.942 ms

Loss rate: 0.08%

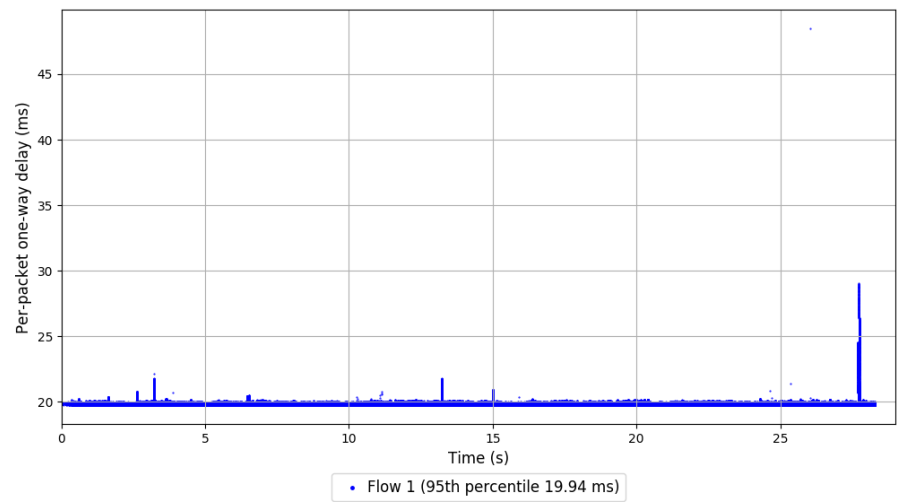
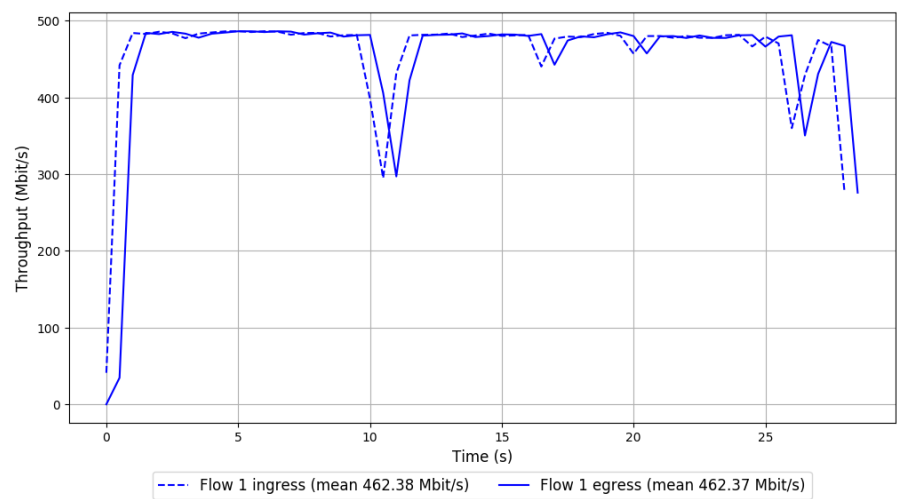
-- Flow 1:

Average throughput: 462.37 Mbit/s

95th percentile per-packet one-way delay: 19.942 ms

Loss rate: 0.08%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-10-03 07:37:50

End at: 2019-10-03 07:38:20

Local clock offset: 5.545 ms

Remote clock offset: 0.409 ms

Below is generated by plot.py at 2019-10-03 10:32:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.88 Mbit/s

95th percentile per-packet one-way delay: 0.955 ms

Loss rate: 0.00%

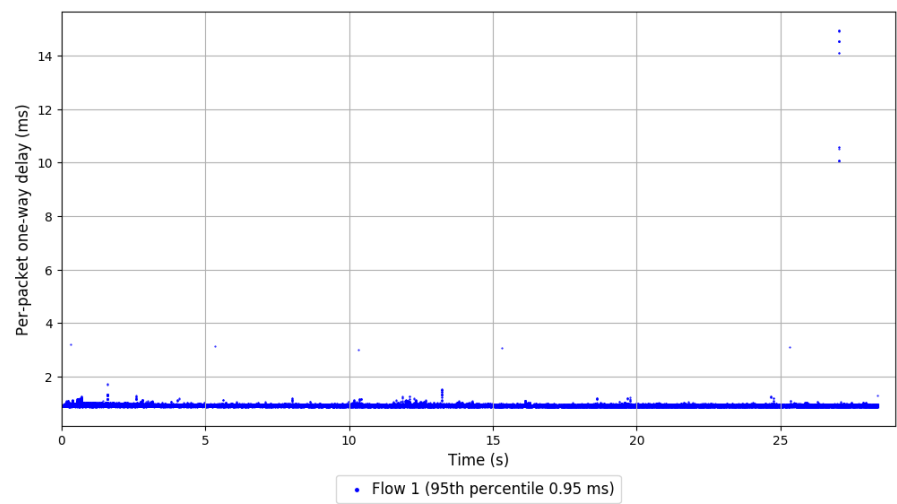
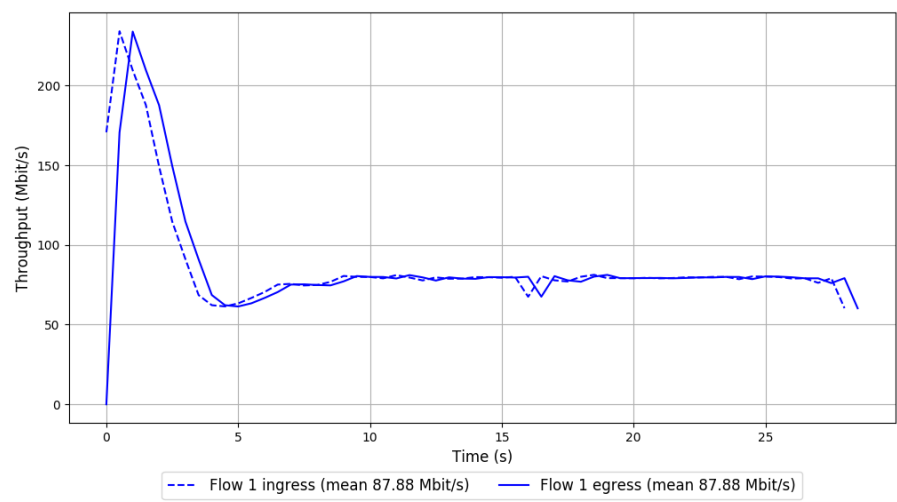
-- Flow 1:

Average throughput: 87.88 Mbit/s

95th percentile per-packet one-way delay: 0.955 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-10-03 08:12:28

End at: 2019-10-03 08:12:58

Local clock offset: 6.302 ms

Remote clock offset: 0.269 ms

Below is generated by plot.py at 2019-10-03 10:32:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.86 Mbit/s

95th percentile per-packet one-way delay: 0.920 ms

Loss rate: 0.01%

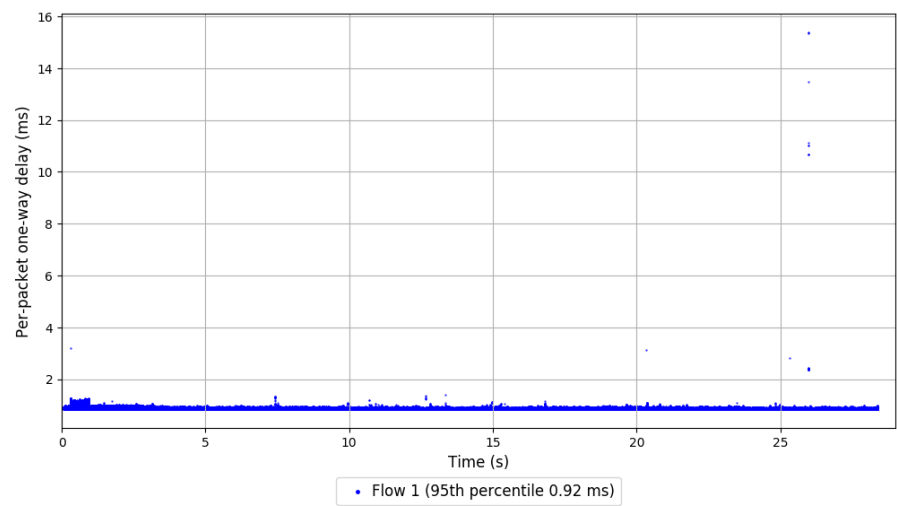
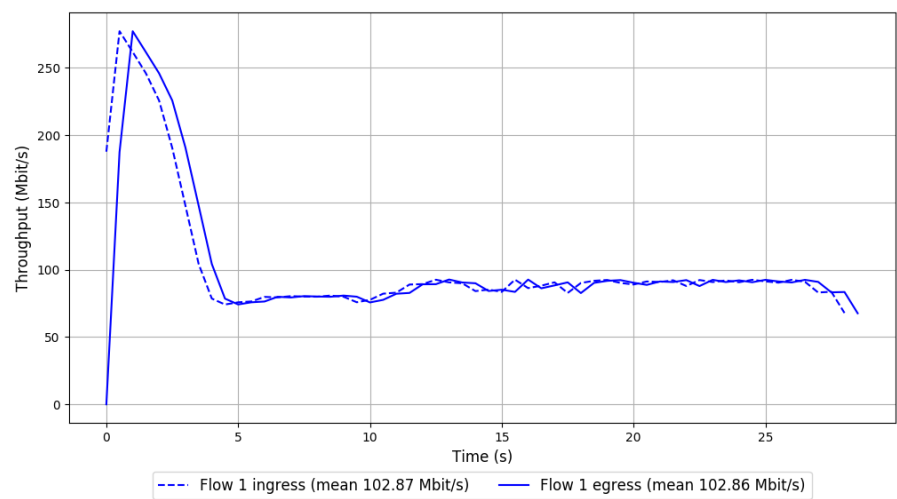
-- Flow 1:

Average throughput: 102.86 Mbit/s

95th percentile per-packet one-way delay: 0.920 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-10-03 08:46:25

End at: 2019-10-03 08:46:55

Local clock offset: 3.561 ms

Remote clock offset: 0.039 ms

Below is generated by plot.py at 2019-10-03 10:32:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.86 Mbit/s

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

Loss rate: 0.00%

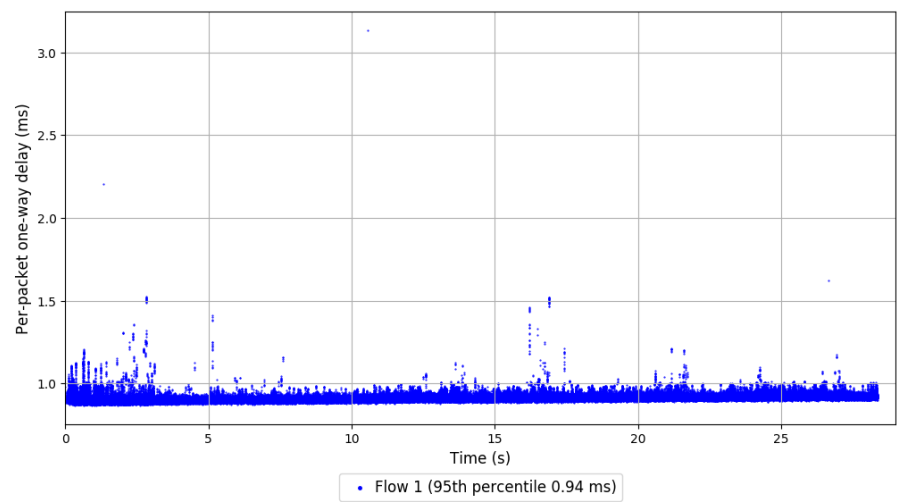
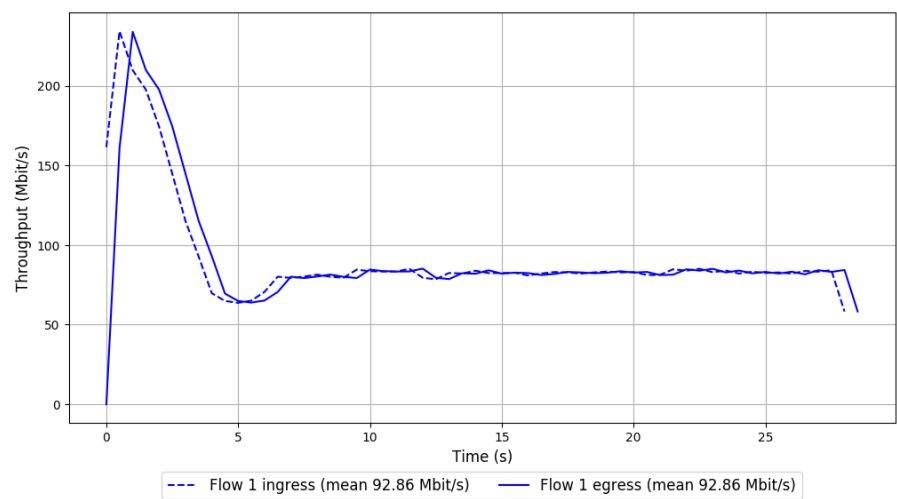
-- Flow 1:

Average throughput: 92.86 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-10-03 09:20:11

End at: 2019-10-03 09:20:41

Local clock offset: 2.359 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2019-10-03 10:33:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 383.93 Mbit/s

95th percentile per-packet one-way delay: 19.362 ms

Loss rate: 0.06%

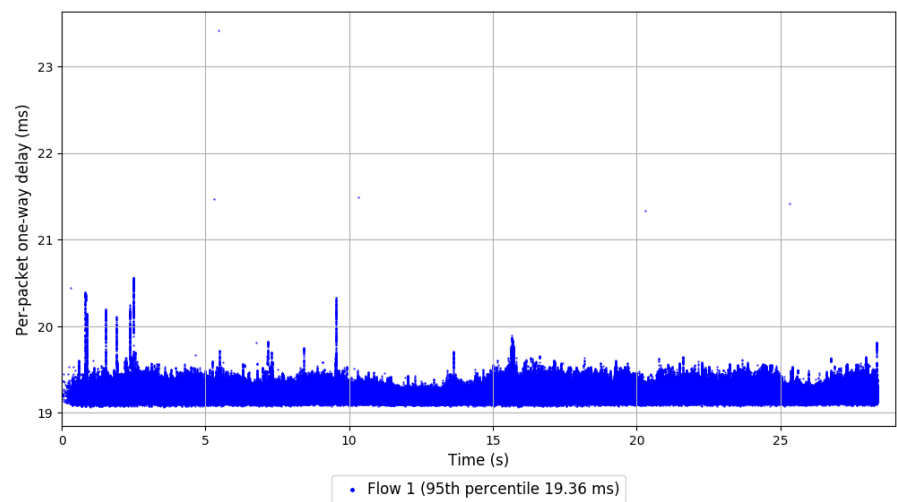
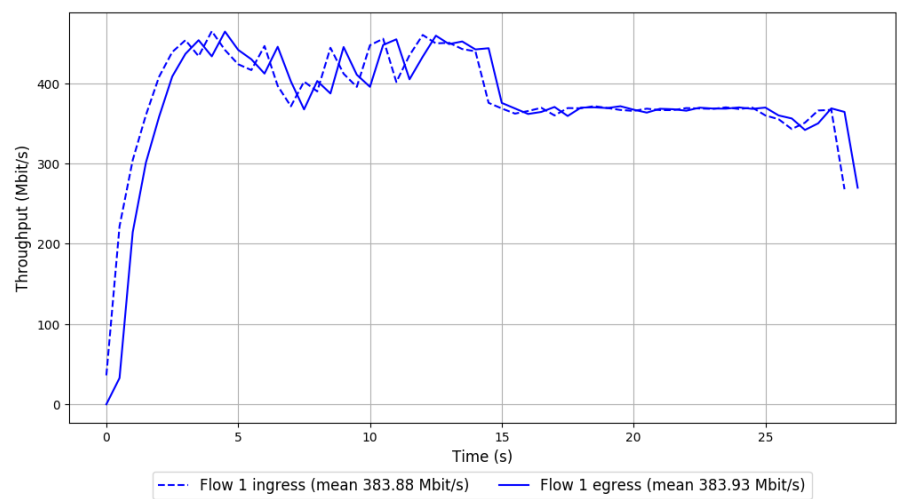
-- Flow 1:

Average throughput: 383.93 Mbit/s

95th percentile per-packet one-way delay: 19.362 ms

Loss rate: 0.06%

Run 5: Report of Indigo-MusesD — Data Link

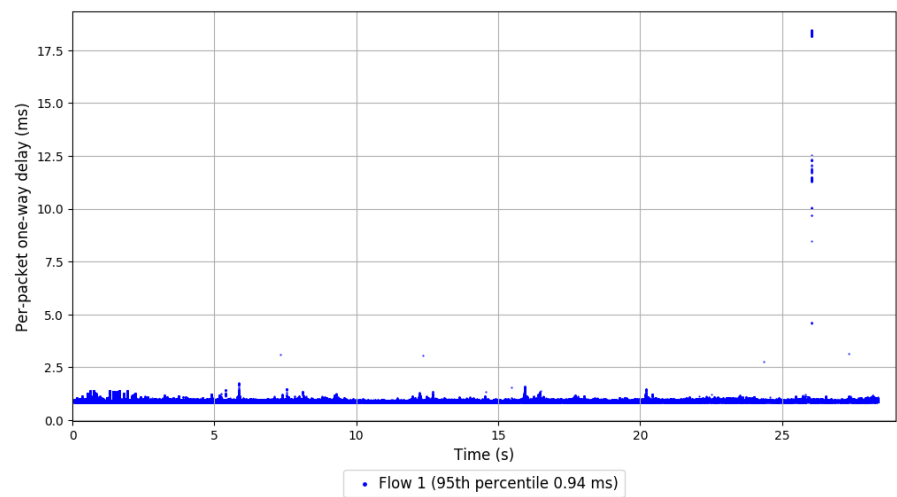
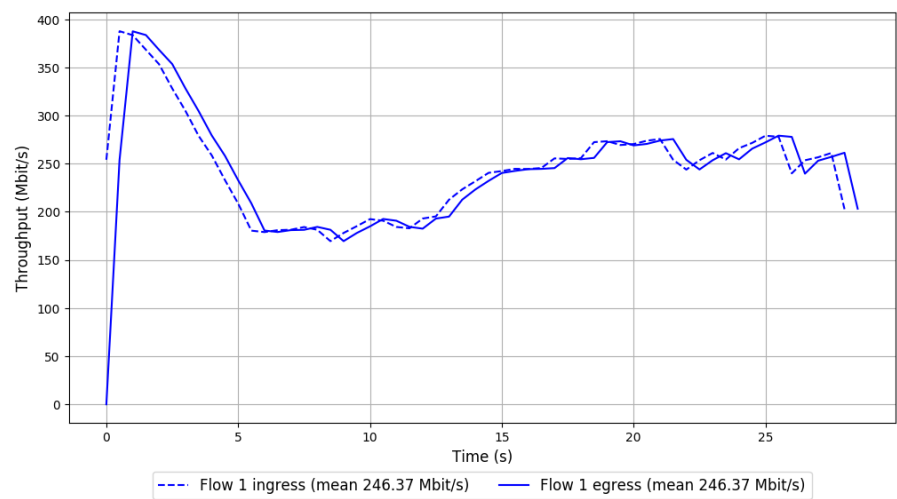


```
Run 1: Statistics of Indigo-MusesT

Start at: 2019-10-03 07:16:27
End at: 2019-10-03 07:16:57
Local clock offset: 4.961 ms
Remote clock offset: 0.644 ms

# Below is generated by plot.py at 2019-10-03 10:33:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 246.37 Mbit/s
95th percentile per-packet one-way delay: 0.941 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 246.37 Mbit/s
95th percentile per-packet one-way delay: 0.941 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-10-03 07:50:29

End at: 2019-10-03 07:50:59

Local clock offset: 5.864 ms

Remote clock offset: 0.576 ms

Below is generated by plot.py at 2019-10-03 10:33:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 249.52 Mbit/s

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

Loss rate: 0.01%

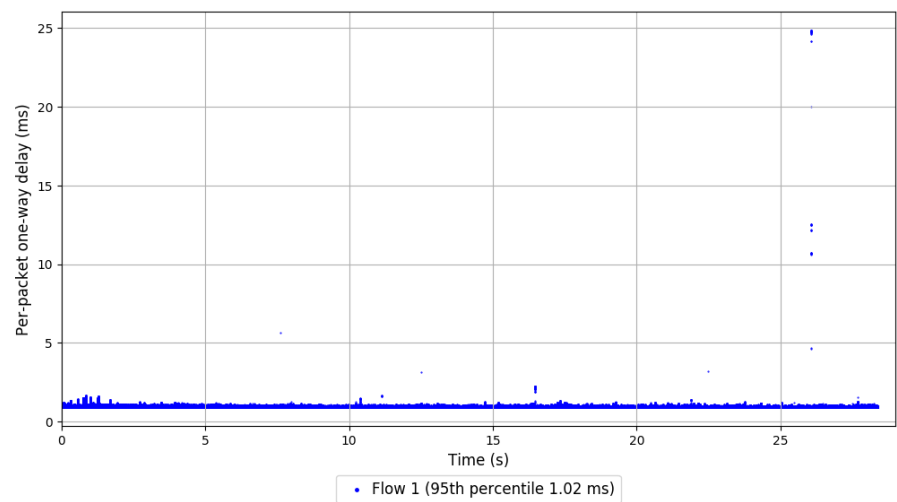
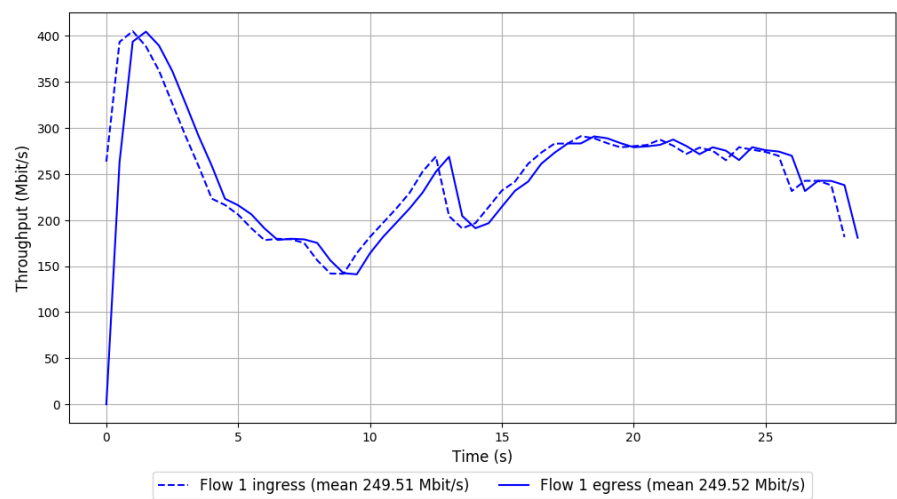
-- Flow 1:

Average throughput: 249.52 Mbit/s

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

Loss rate: 0.01%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-10-03 08:24:54

End at: 2019-10-03 08:25:24

Local clock offset: 6.504 ms

Remote clock offset: 0.319 ms

Below is generated by plot.py at 2019-10-03 10:33:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 390.33 Mbit/s

95th percentile per-packet one-way delay: 19.547 ms

Loss rate: 0.09%

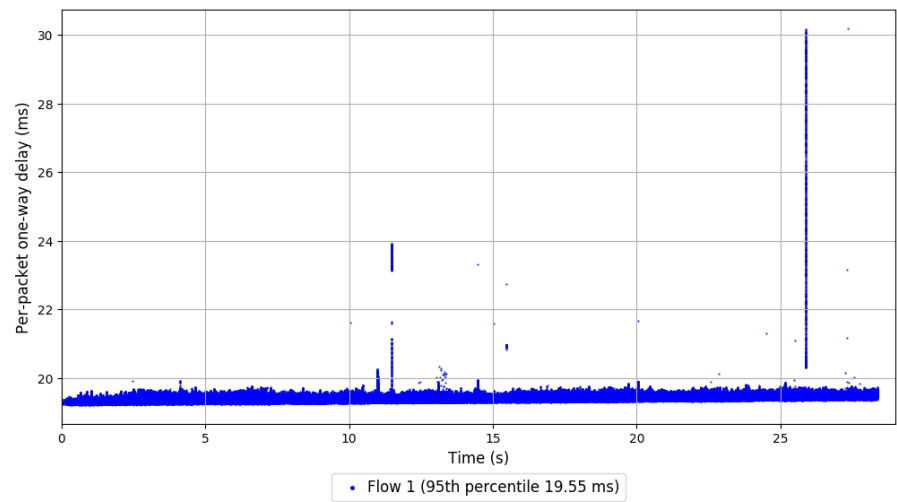
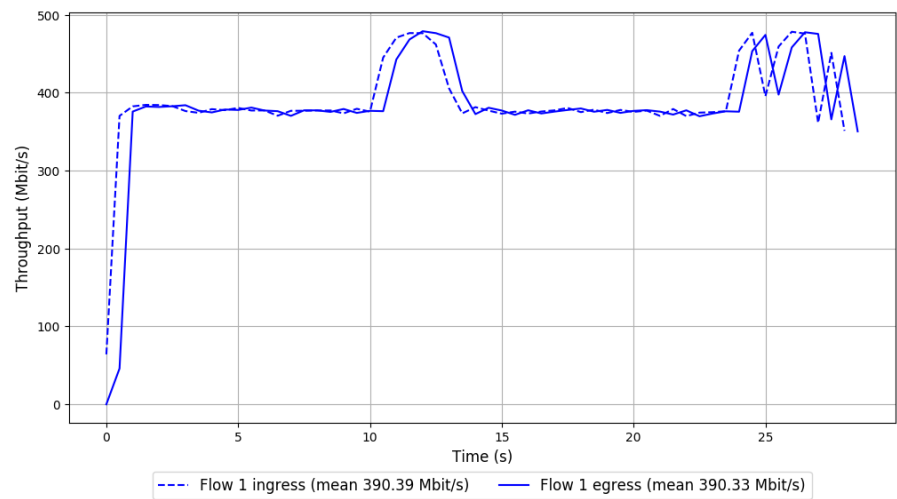
-- Flow 1:

Average throughput: 390.33 Mbit/s

95th percentile per-packet one-way delay: 19.547 ms

Loss rate: 0.09%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-10-03 08:58:41

End at: 2019-10-03 08:59:12

Local clock offset: 3.075 ms

Remote clock offset: 0.08 ms

Below is generated by plot.py at 2019-10-03 10:33:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.12 Mbit/s

95th percentile per-packet one-way delay: 0.909 ms

Loss rate: 0.01%

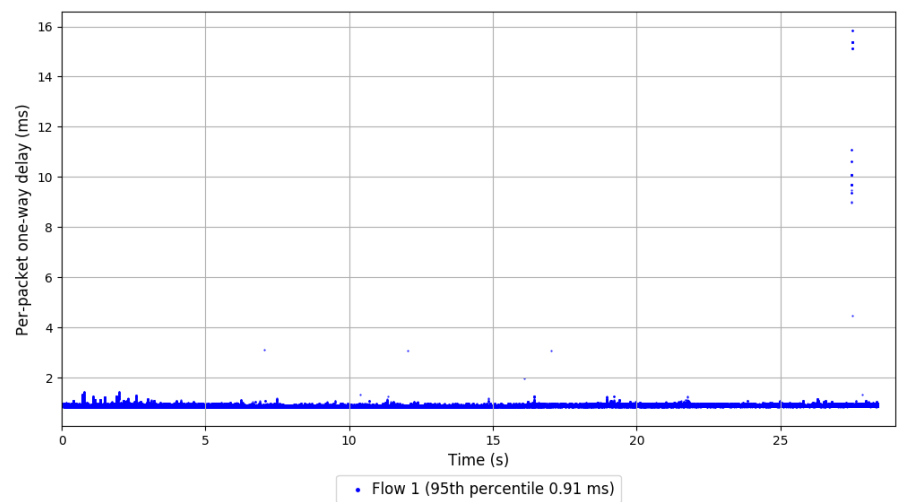
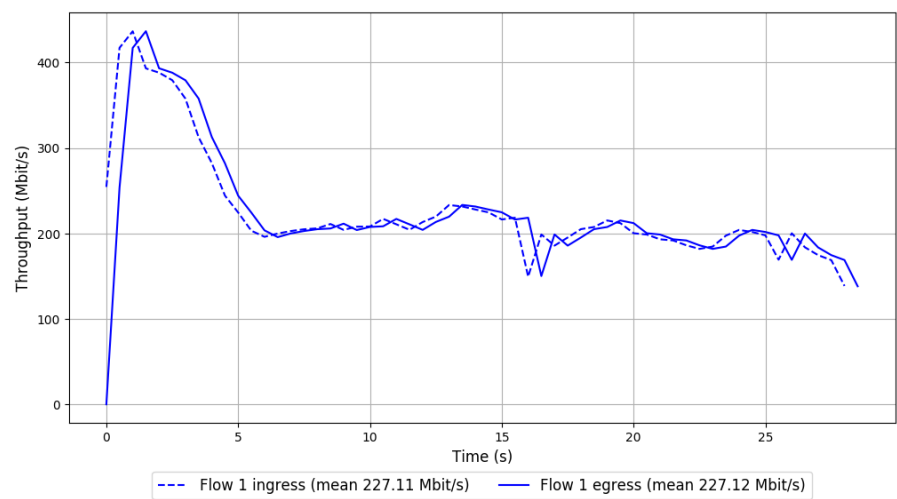
-- Flow 1:

Average throughput: 227.12 Mbit/s

95th percentile per-packet one-way delay: 0.909 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

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

End at: 2019-10-03 09:32:49

Local clock offset: 3.762 ms

Remote clock offset: 0.05 ms

Below is generated by plot.py at 2019-10-03 10:36:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 466.54 Mbit/s

95th percentile per-packet one-way delay: 19.395 ms

Loss rate: 0.07%

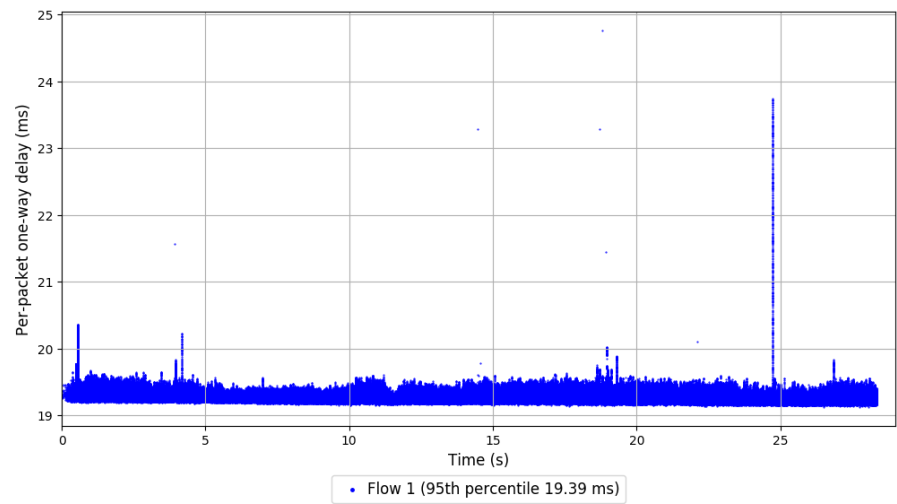
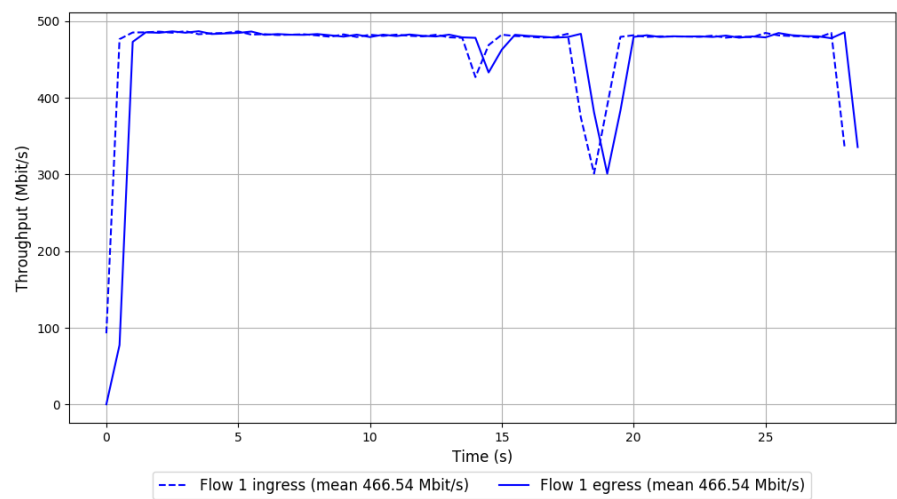
-- Flow 1:

Average throughput: 466.54 Mbit/s

95th percentile per-packet one-way delay: 19.395 ms

Loss rate: 0.07%

Run 5: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2019-10-03 07:20:41

End at: 2019-10-03 07:21:11

Local clock offset: 5.075 ms

Remote clock offset: 0.482 ms

Below is generated by plot.py at 2019-10-03 10:36:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 443.28 Mbit/s

95th percentile per-packet one-way delay: 5.776 ms

Loss rate: 0.01%

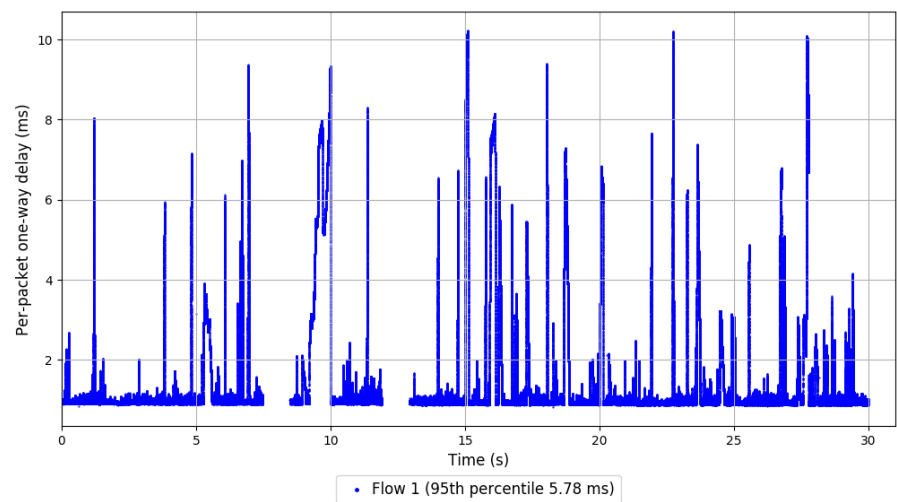
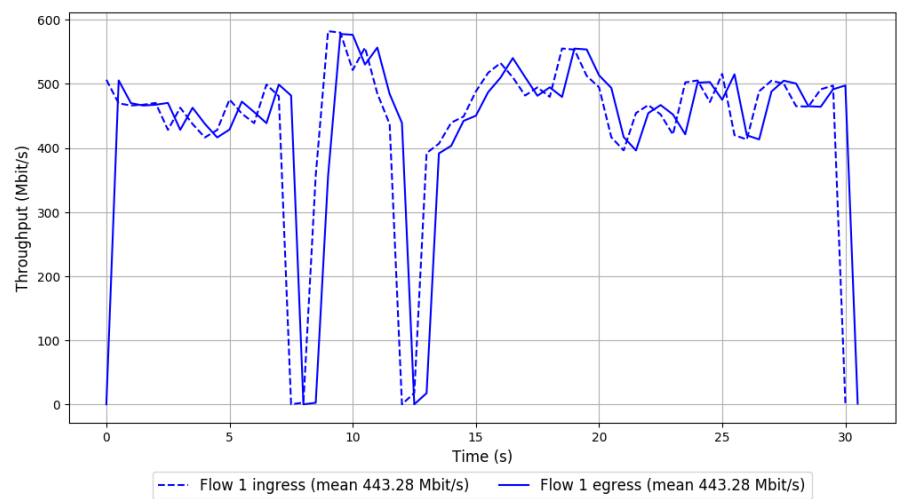
-- Flow 1:

Average throughput: 443.28 Mbit/s

95th percentile per-packet one-way delay: 5.776 ms

Loss rate: 0.01%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-10-03 07:54:41

End at: 2019-10-03 07:55:11

Local clock offset: 5.935 ms

Remote clock offset: 0.402 ms

Below is generated by plot.py at 2019-10-03 10:36:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 366.51 Mbit/s

95th percentile per-packet one-way delay: 19.069 ms

Loss rate: 0.08%

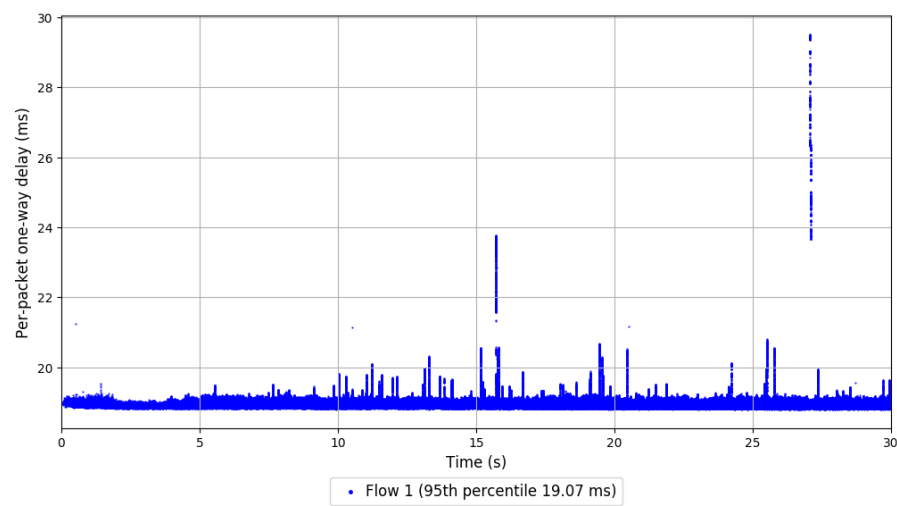
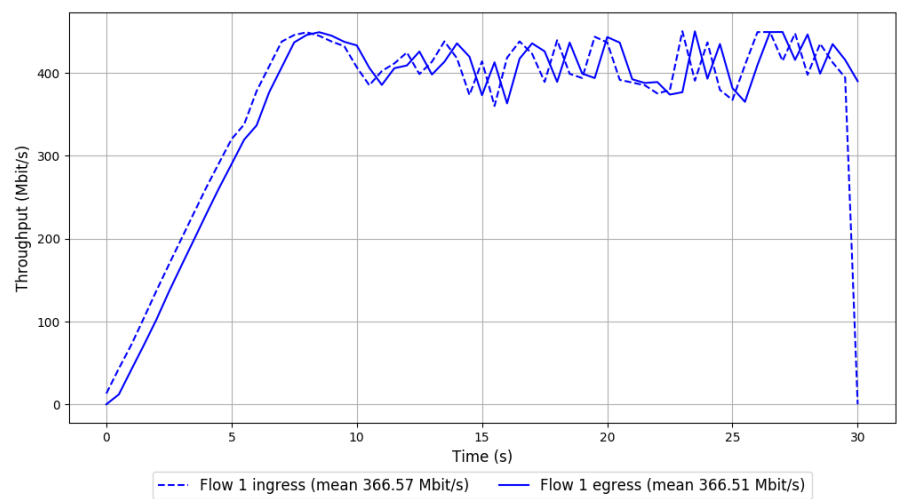
-- Flow 1:

Average throughput: 366.51 Mbit/s

95th percentile per-packet one-way delay: 19.069 ms

Loss rate: 0.08%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-10-03 08:29:11

End at: 2019-10-03 08:29:41

Local clock offset: 5.363 ms

Remote clock offset: 0.193 ms

Below is generated by plot.py at 2019-10-03 10:36:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 360.92 Mbit/s

95th percentile per-packet one-way delay: 19.247 ms

Loss rate: 0.07%

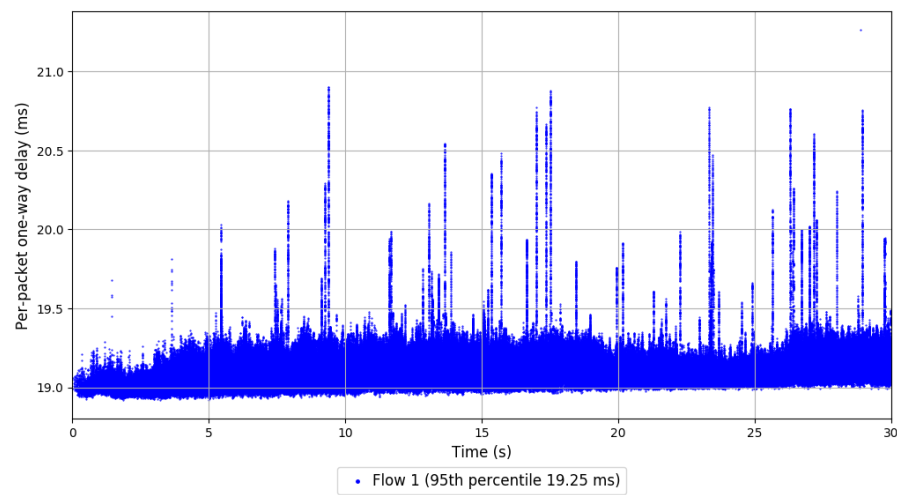
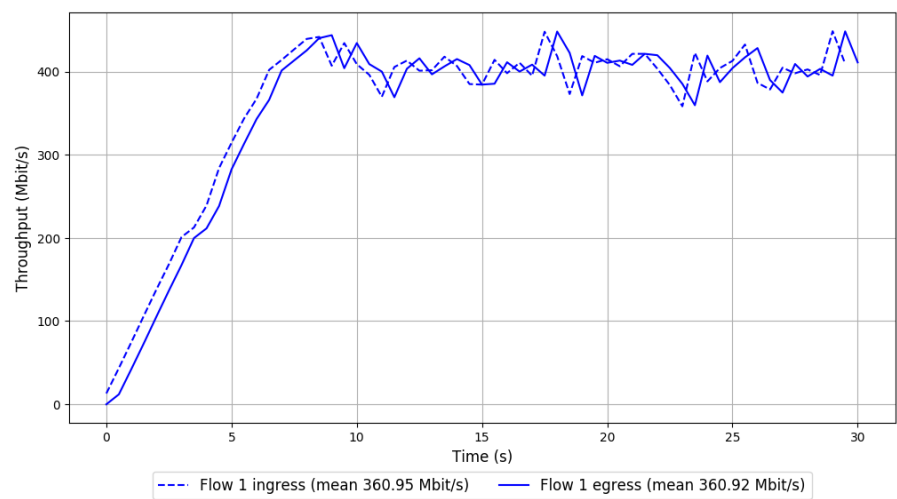
-- Flow 1:

Average throughput: 360.92 Mbit/s

95th percentile per-packet one-way delay: 19.247 ms

Loss rate: 0.07%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-10-03 09:02:54

End at: 2019-10-03 09:03:24

Local clock offset: 2.964 ms

Remote clock offset: 0.038 ms

Below is generated by plot.py at 2019-10-03 10:38:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 496.92 Mbit/s

95th percentile per-packet one-way delay: 3.024 ms

Loss rate: 0.01%

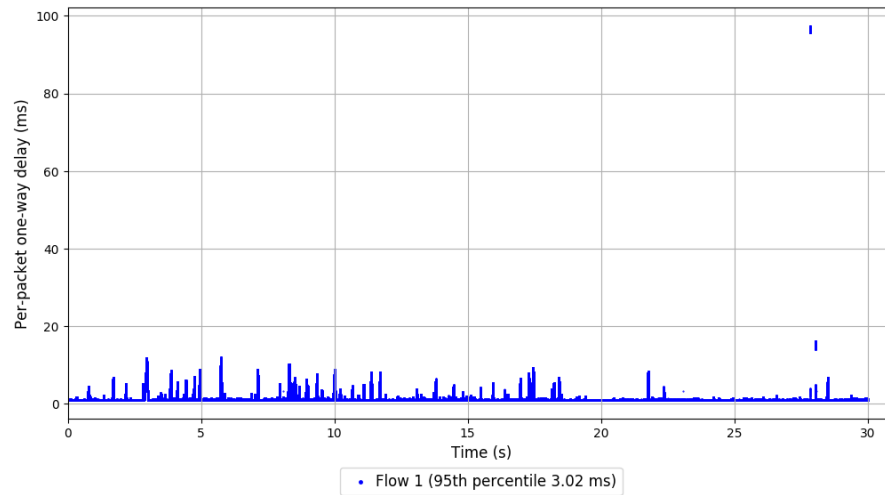
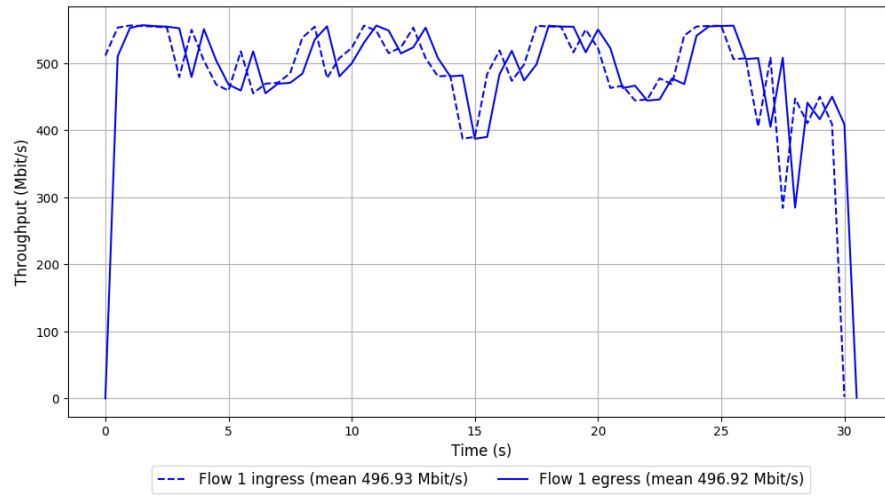
-- Flow 1:

Average throughput: 496.92 Mbit/s

95th percentile per-packet one-way delay: 3.024 ms

Loss rate: 0.01%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

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

End at: 2019-10-03 09:37:06

Local clock offset: 4.166 ms

Remote clock offset: 0.035 ms

Below is generated by plot.py at 2019-10-03 10:38:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 450.32 Mbit/s

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

Loss rate: 0.00%

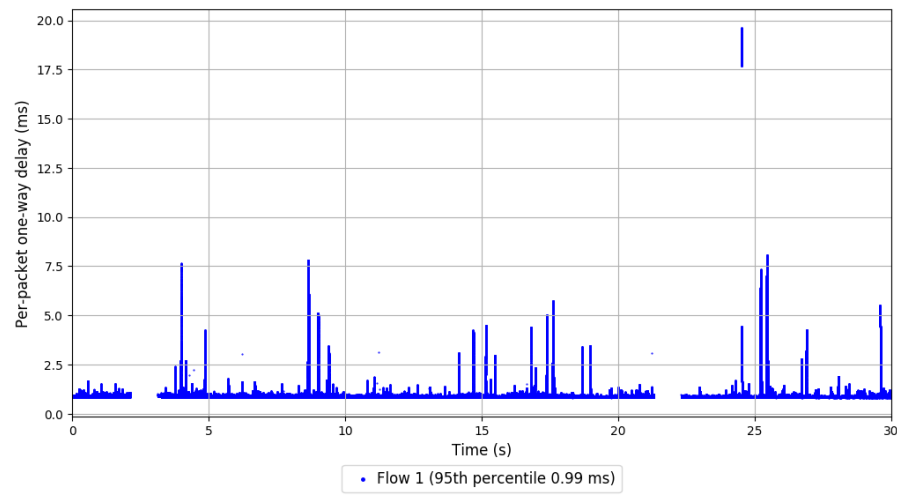
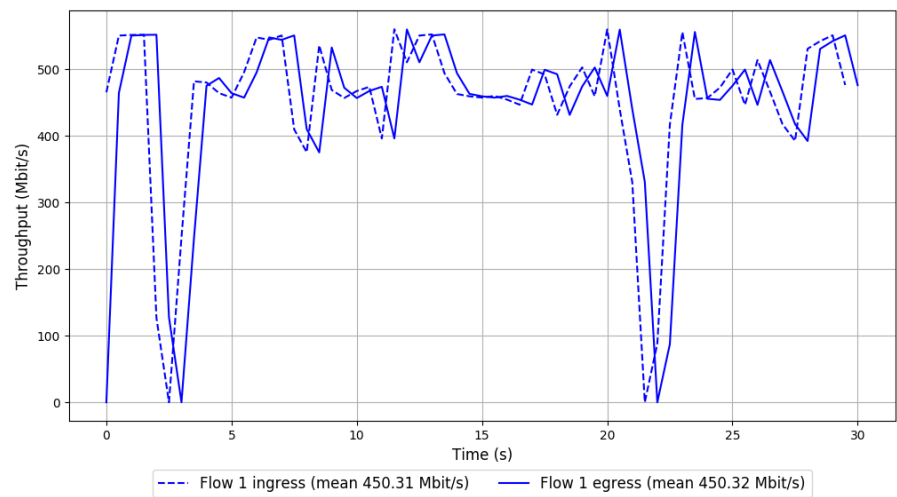
-- Flow 1:

Average throughput: 450.32 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses_DecisionTree

Start at: 2019-10-03 07:10:37

End at: 2019-10-03 07:11:07

Local clock offset: 4.827 ms

Remote clock offset: 0.457 ms

Below is generated by plot.py at 2019-10-03 10:38:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 319.92 Mbit/s

95th percentile per-packet one-way delay: 18.671 ms

Loss rate: 0.07%

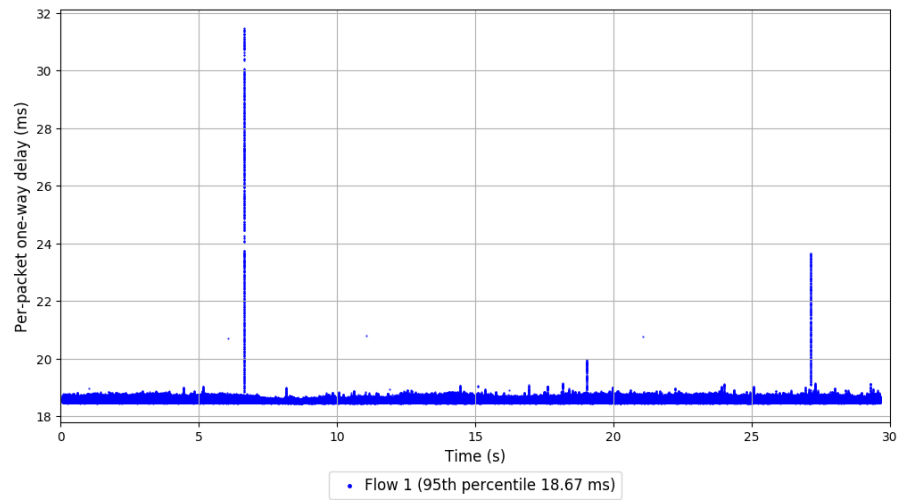
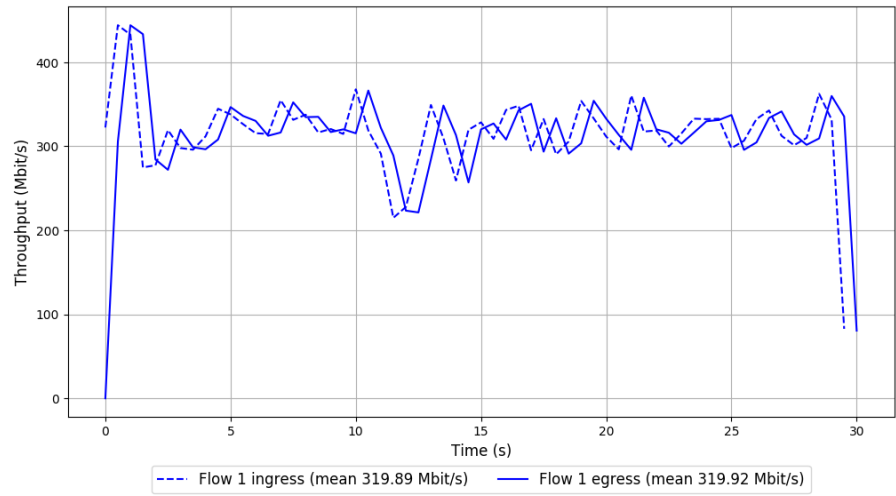
-- Flow 1:

Average throughput: 319.92 Mbit/s

95th percentile per-packet one-way delay: 18.671 ms

Loss rate: 0.07%

Run 1: Report of Muses_DecisionTree — Data Link



Run 2: Statistics of Muses_DecisionTree

Start at: 2019-10-03 07:44:48

End at: 2019-10-03 07:45:18

Local clock offset: 5.714 ms

Remote clock offset: 0.573 ms

Below is generated by plot.py at 2019-10-03 10:38:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 283.65 Mbit/s

95th percentile per-packet one-way delay: 18.916 ms

Loss rate: 0.05%

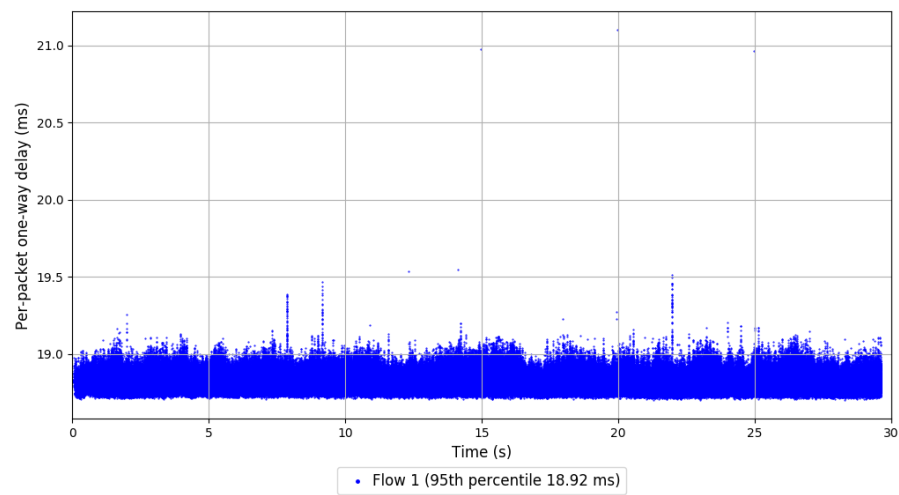
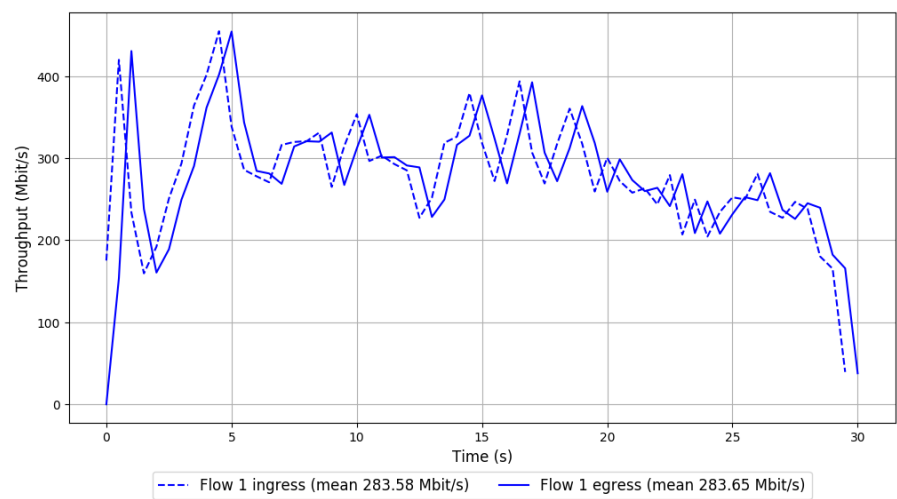
-- Flow 1:

Average throughput: 283.65 Mbit/s

95th percentile per-packet one-way delay: 18.916 ms

Loss rate: 0.05%

Run 2: Report of Muses_DecisionTree — Data Link



Run 3: Statistics of Muses_DecisionTree

Start at: 2019-10-03 08:19:24

End at: 2019-10-03 08:19:54

Local clock offset: 6.428 ms

Remote clock offset: 0.29 ms

Below is generated by plot.py at 2019-10-03 10:40:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 412.53 Mbit/s

95th percentile per-packet one-way delay: 19.950 ms

Loss rate: 0.08%

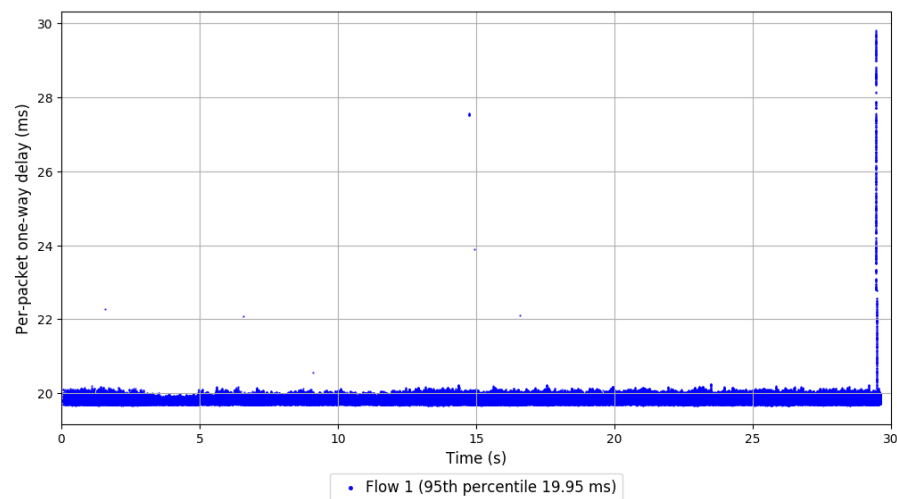
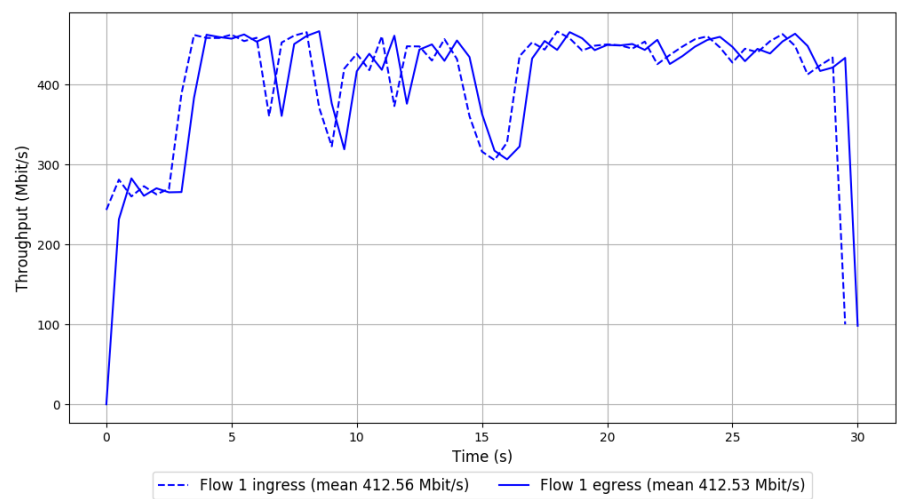
-- Flow 1:

Average throughput: 412.53 Mbit/s

95th percentile per-packet one-way delay: 19.950 ms

Loss rate: 0.08%

Run 3: Report of Muses_DecisionTree — Data Link

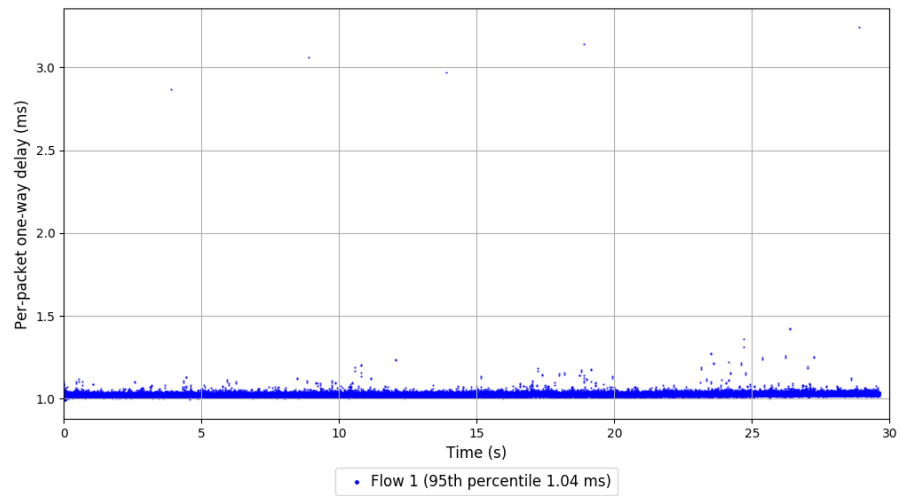
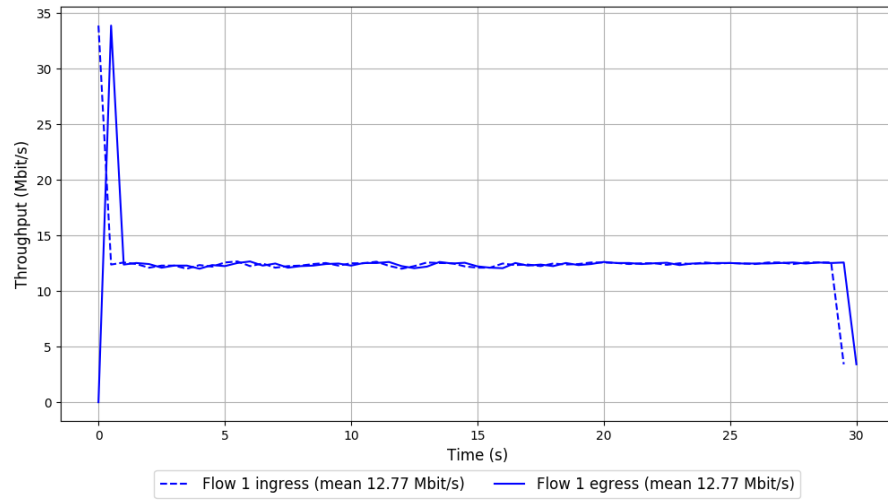


Run 4: Statistics of Muses_DecisionTree

Start at: 2019-10-03 08:53:03
End at: 2019-10-03 08:53:34
Local clock offset: 3.319 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2019-10-03 10:40:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.77 Mbit/s
95th percentile per-packet one-way delay: 1.041 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 12.77 Mbit/s
95th percentile per-packet one-way delay: 1.041 ms
Loss rate: 0.01%

Run 4: Report of Muses_DecisionTree — Data Link



Run 5: Statistics of Muses_DecisionTree

Start at: 2019-10-03 09:26:59

End at: 2019-10-03 09:27:29

Local clock offset: 2.795 ms

Remote clock offset: 0.084 ms

Below is generated by plot.py at 2019-10-03 10:40:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.77 Mbit/s

95th percentile per-packet one-way delay: 0.776 ms

Loss rate: 0.01%

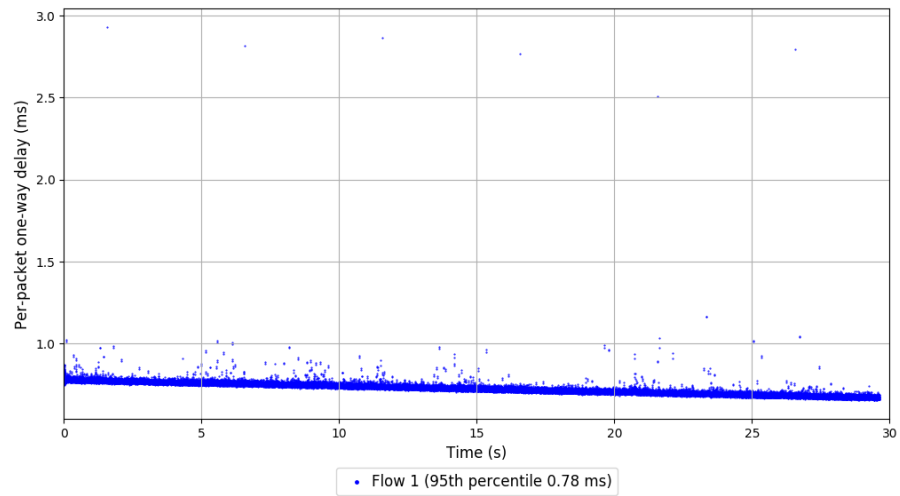
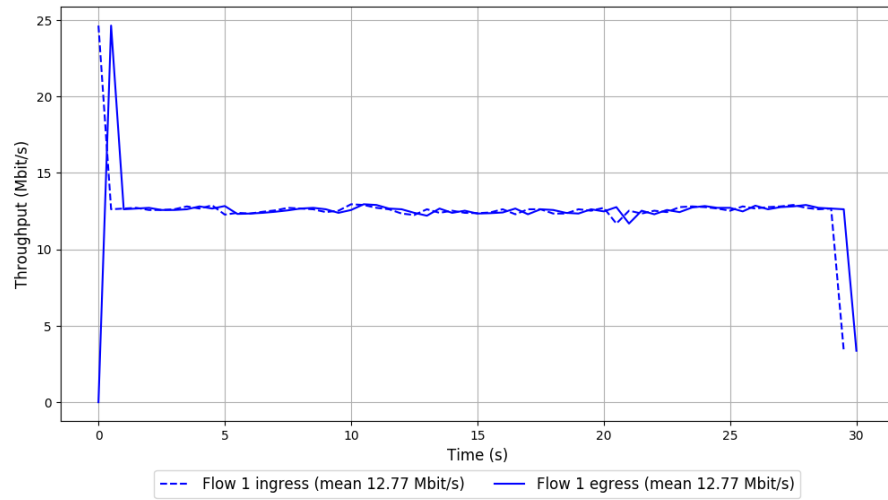
-- Flow 1:

Average throughput: 12.77 Mbit/s

95th percentile per-packet one-way delay: 0.776 ms

Loss rate: 0.01%

Run 5: Report of Muses_DecisionTree — Data Link



Run 1: Statistics of Muses_DecisionTreeH0

Start at: 2019-10-03 07:01:59

End at: 2019-10-03 07:02:29

Local clock offset: 4.532 ms

Remote clock offset: 0.207 ms

Below is generated by plot.py at 2019-10-03 10:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 440.12 Mbit/s

95th percentile per-packet one-way delay: 18.687 ms

Loss rate: 0.07%

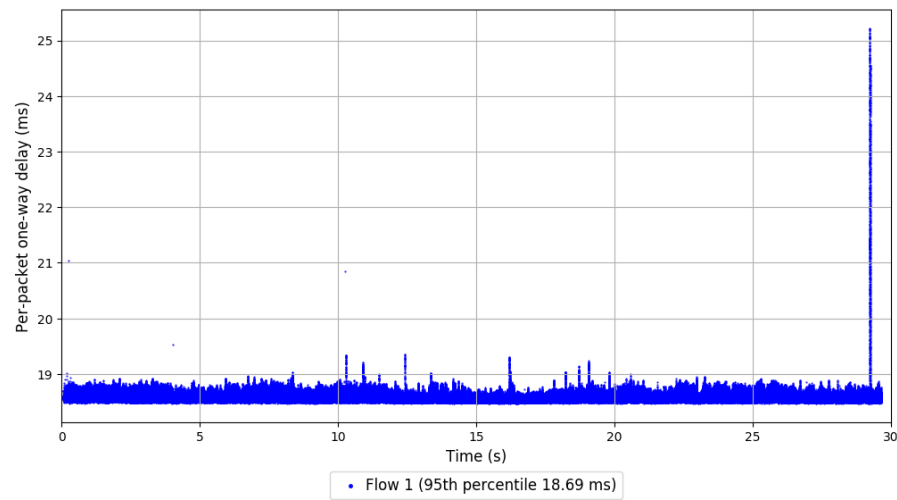
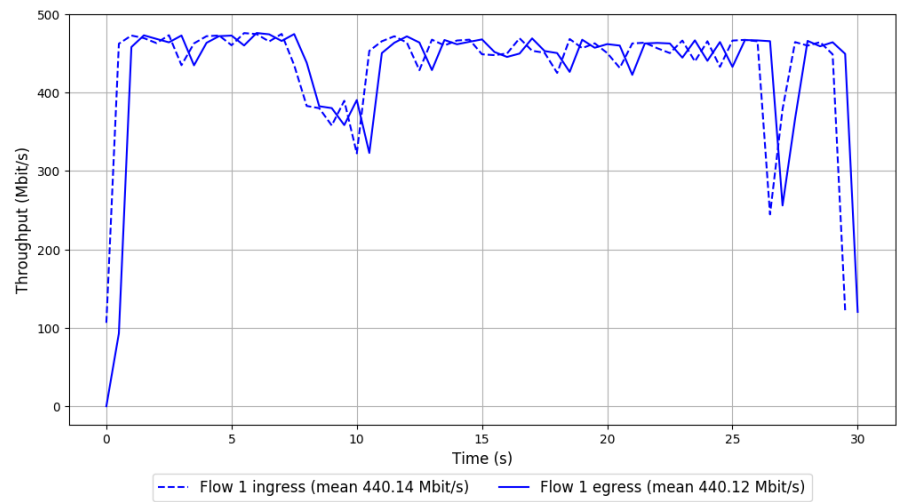
-- Flow 1:

Average throughput: 440.12 Mbit/s

95th percentile per-packet one-way delay: 18.687 ms

Loss rate: 0.07%

Run 1: Report of Muses_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2019-10-03 07:36:36

End at: 2019-10-03 07:37:06

Local clock offset: 5.509 ms

Remote clock offset: 0.425 ms

Below is generated by plot.py at 2019-10-03 10:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.42 Mbit/s

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

Loss rate: 0.01%

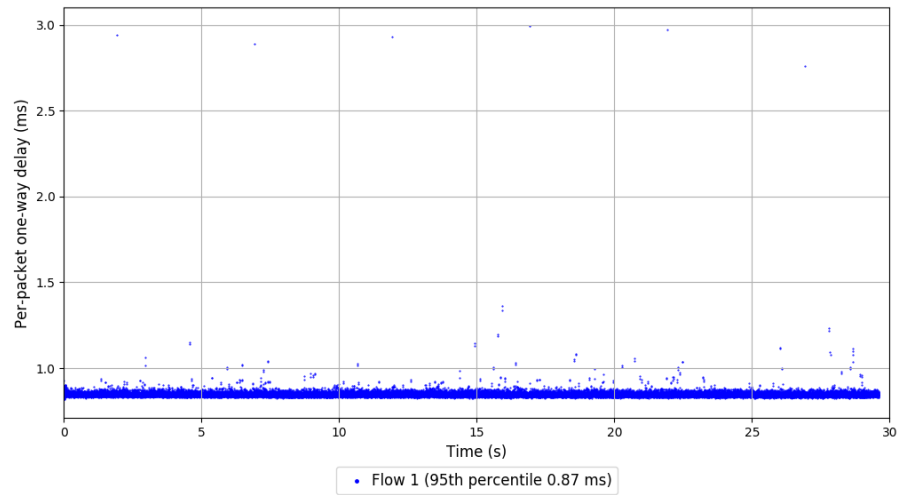
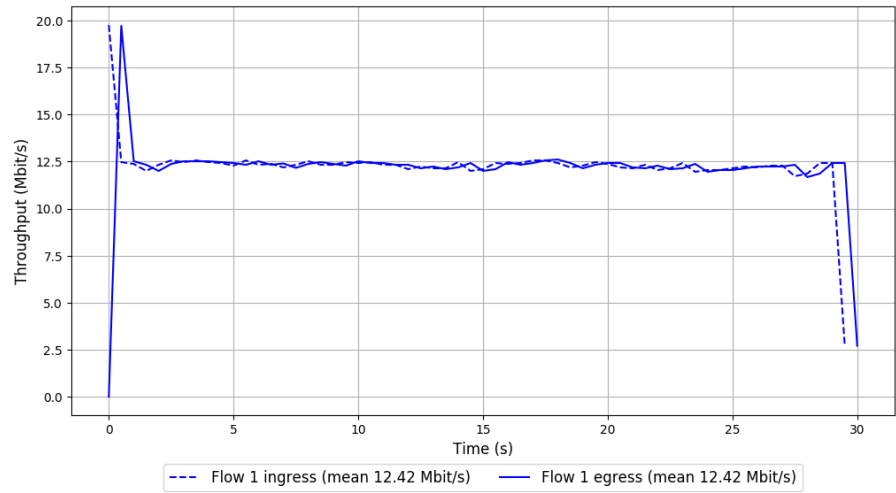
-- Flow 1:

Average throughput: 12.42 Mbit/s

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

Loss rate: 0.01%

Run 2: Report of Muses_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2019-10-03 08:11:00

End at: 2019-10-03 08:11:30

Local clock offset: 6.276 ms

Remote clock offset: 0.277 ms

Below is generated by plot.py at 2019-10-03 10:41:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 428.20 Mbit/s

95th percentile per-packet one-way delay: 19.924 ms

Loss rate: 0.06%

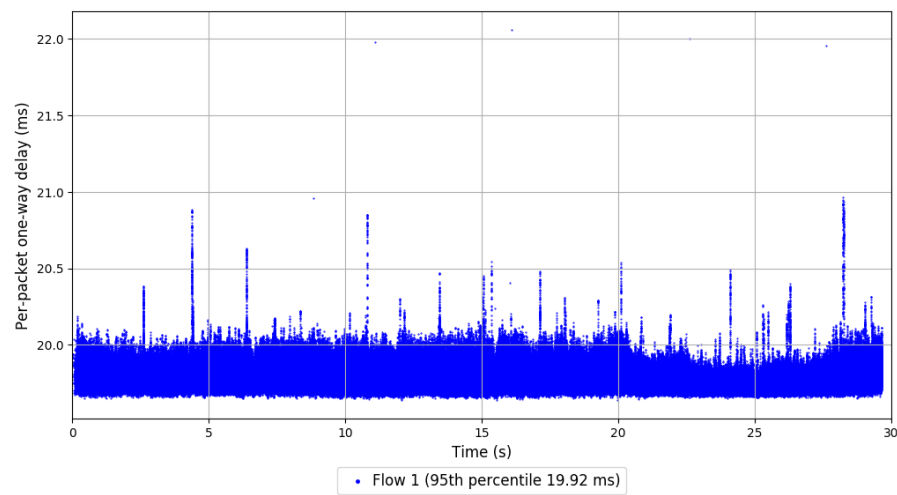
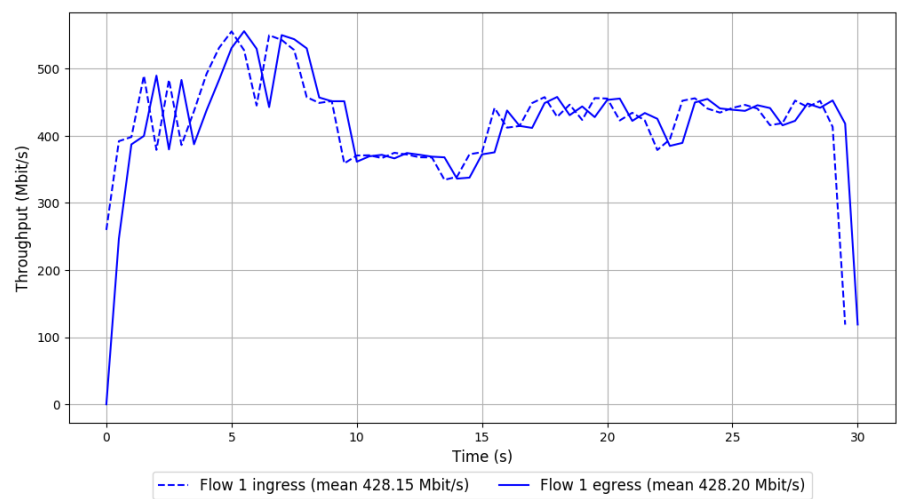
-- Flow 1:

Average throughput: 428.20 Mbit/s

95th percentile per-packet one-way delay: 19.924 ms

Loss rate: 0.06%

Run 3: Report of Muses_DecisionTreeH0 — Data Link



Run 4: Statistics of Muses_DecisionTreeH0

Start at: 2019-10-03 08:45:11

End at: 2019-10-03 08:45:41

Local clock offset: 3.603 ms

Remote clock offset: 0.048 ms

Below is generated by plot.py at 2019-10-03 10:41:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.38 Mbit/s

95th percentile per-packet one-way delay: 0.916 ms

Loss rate: 0.00%

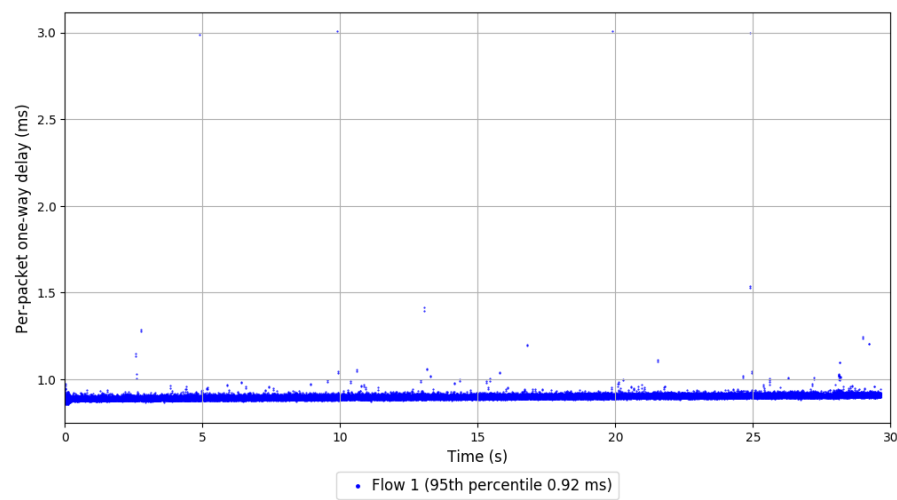
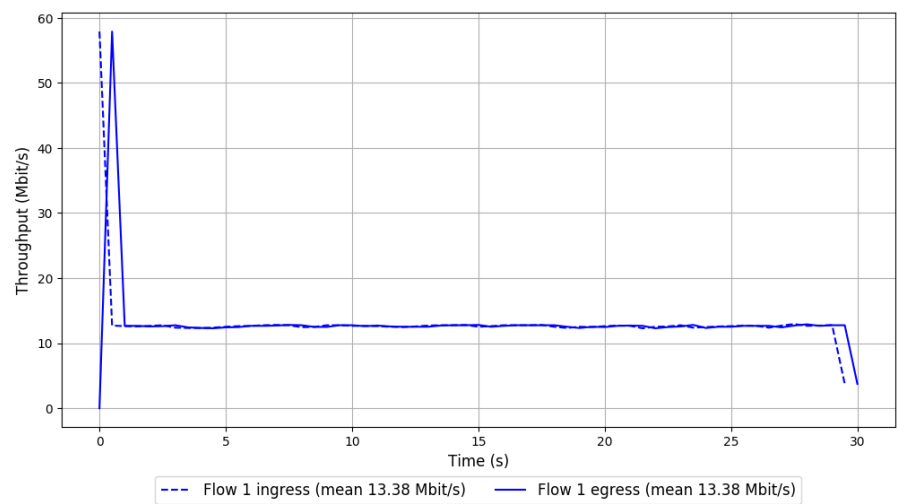
-- Flow 1:

Average throughput: 13.38 Mbit/s

95th percentile per-packet one-way delay: 0.916 ms

Loss rate: 0.00%

Run 4: Report of Muses_DecisionTreeH0 — Data Link



Run 5: Statistics of Muses_DecisionTreeH0

Start at: 2019-10-03 09:18:57

End at: 2019-10-03 09:19:27

Local clock offset: 2.441 ms

Remote clock offset: 0.154 ms

Below is generated by plot.py at 2019-10-03 10:41:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.07 Mbit/s

95th percentile per-packet one-way delay: 0.908 ms

Loss rate: 0.01%

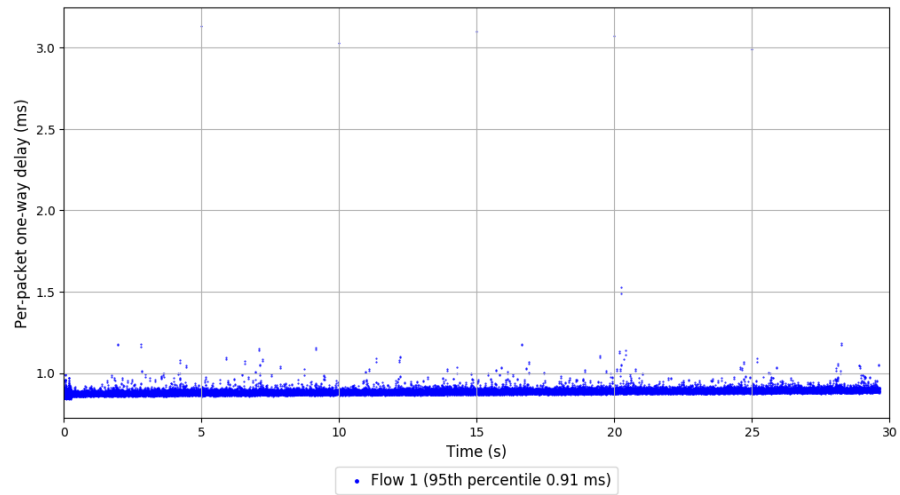
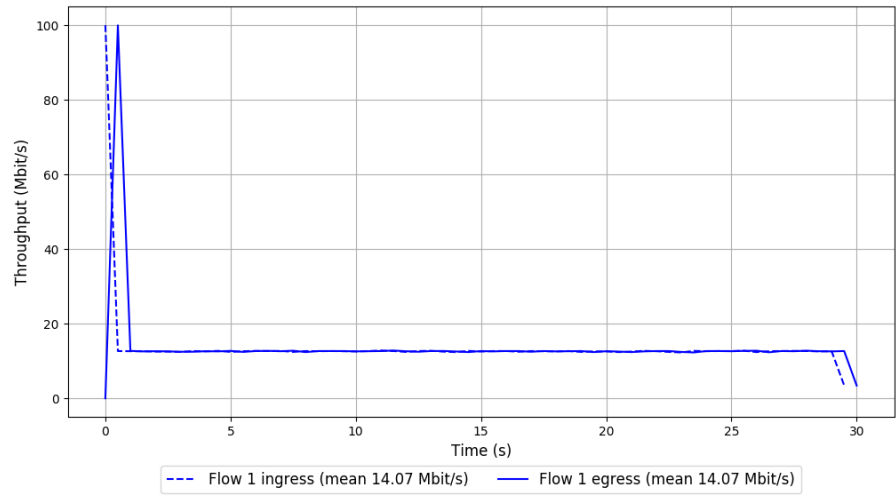
-- Flow 1:

Average throughput: 14.07 Mbit/s

95th percentile per-packet one-way delay: 0.908 ms

Loss rate: 0.01%

Run 5: Report of Muses_DecisionTreeH0 — Data Link

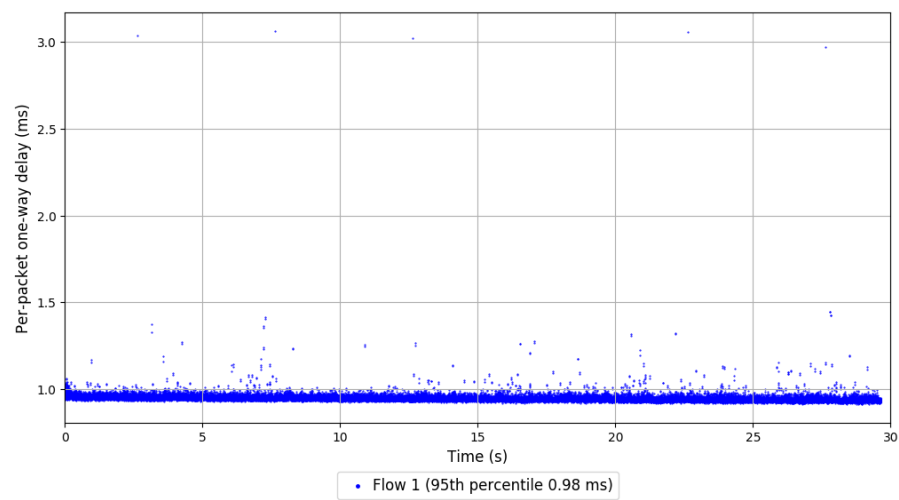
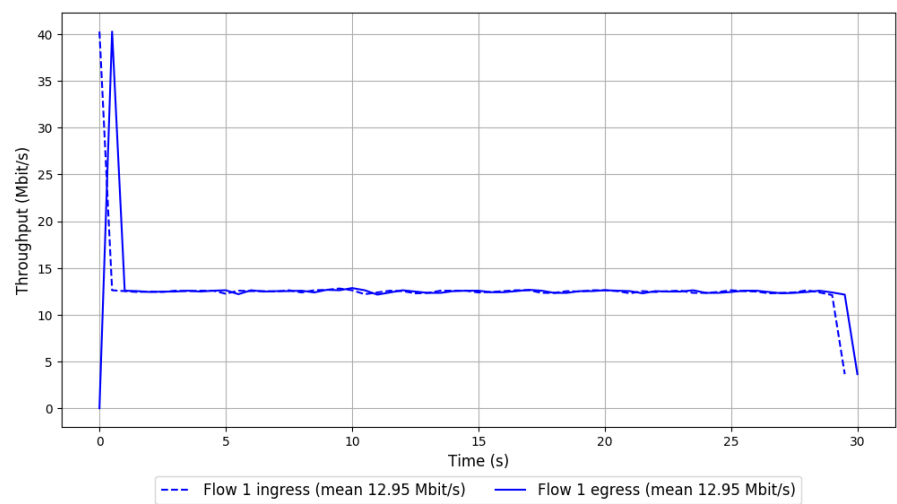


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-10-03 07:26:29
End at: 2019-10-03 07:26:59
Local clock offset: 5.207 ms
Remote clock offset: 0.28 ms

# Below is generated by plot.py at 2019-10-03 10:41:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.95 Mbit/s
95th percentile per-packet one-way delay: 0.978 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.95 Mbit/s
95th percentile per-packet one-way delay: 0.978 ms
Loss rate: 0.00%
```

Run 1: Report of Muses_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2019-10-03 08:00:28

End at: 2019-10-03 08:00:58

Local clock offset: 6.068 ms

Remote clock offset: 0.295 ms

Below is generated by plot.py at 2019-10-03 10:41:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 383.40 Mbit/s

95th percentile per-packet one-way delay: 18.739 ms

Loss rate: 0.06%

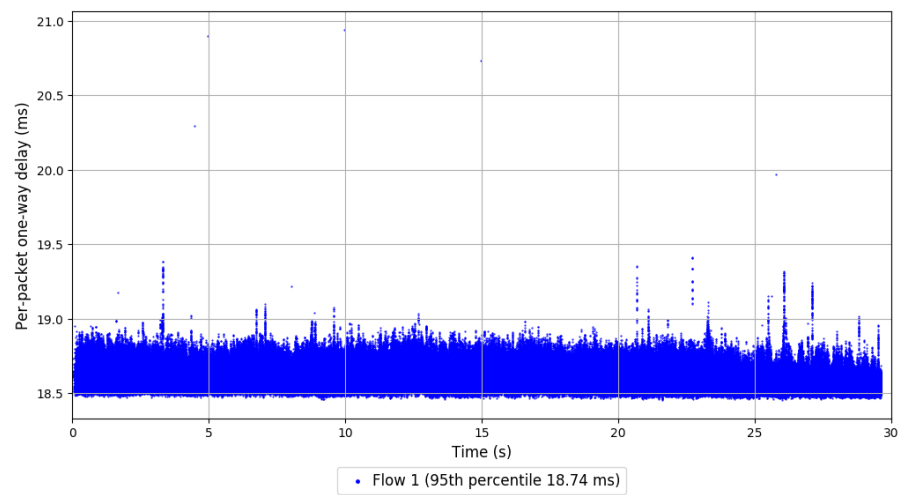
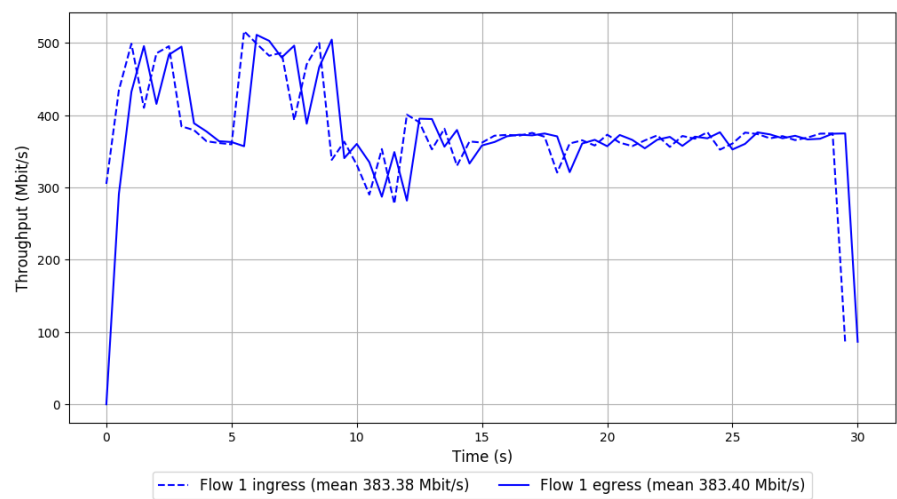
-- Flow 1:

Average throughput: 383.40 Mbit/s

95th percentile per-packet one-way delay: 18.739 ms

Loss rate: 0.06%

Run 2: Report of Muses_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-10-03 08:34:58

End at: 2019-10-03 08:35:28

Local clock offset: 4.443 ms

Remote clock offset: 0.152 ms

Below is generated by plot.py at 2019-10-03 10:41:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.38 Mbit/s

95th percentile per-packet one-way delay: 0.940 ms

Loss rate: 0.01%

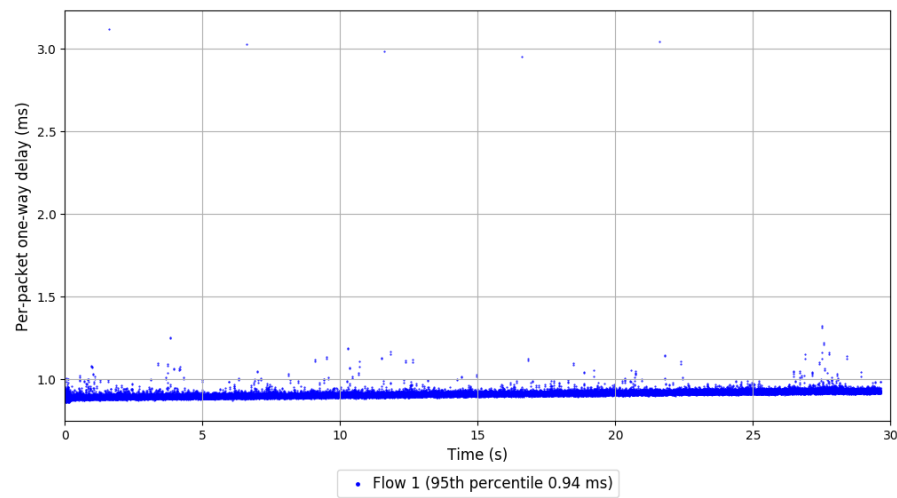
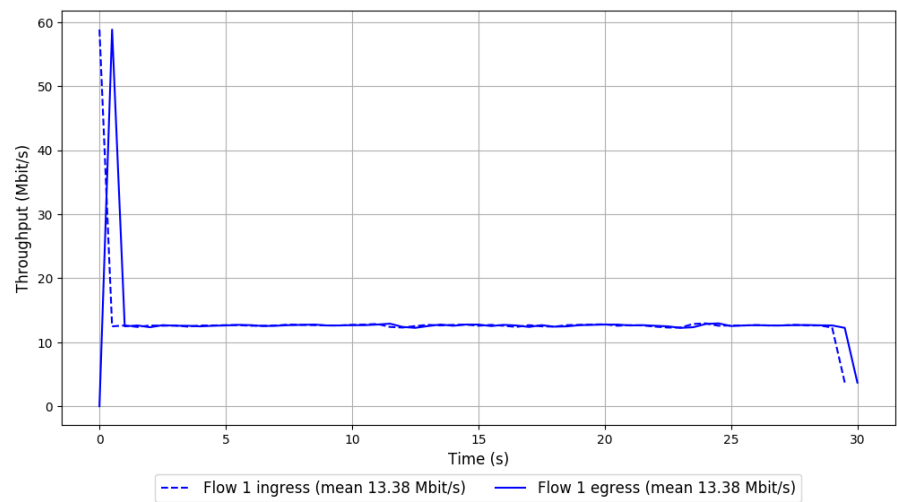
-- Flow 1:

Average throughput: 13.38 Mbit/s

95th percentile per-packet one-way delay: 0.940 ms

Loss rate: 0.01%

Run 3: Report of Muses_DecisionTreeR0 — Data Link



Run 4: Statistics of Muses_DecisionTreeR0

Start at: 2019-10-03 09:08:45

End at: 2019-10-03 09:09:15

Local clock offset: 2.783 ms

Remote clock offset: 0.11 ms

Below is generated by plot.py at 2019-10-03 10:41:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 264.03 Mbit/s

95th percentile per-packet one-way delay: 19.016 ms

Loss rate: 0.09%

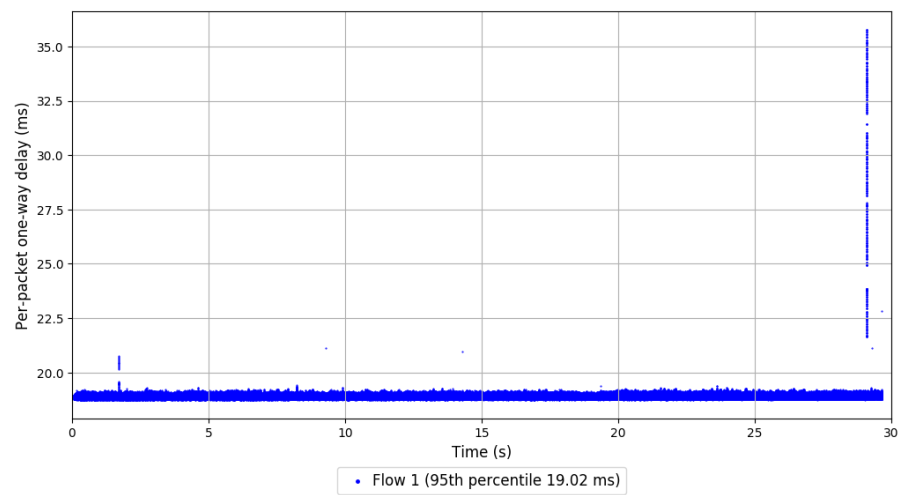
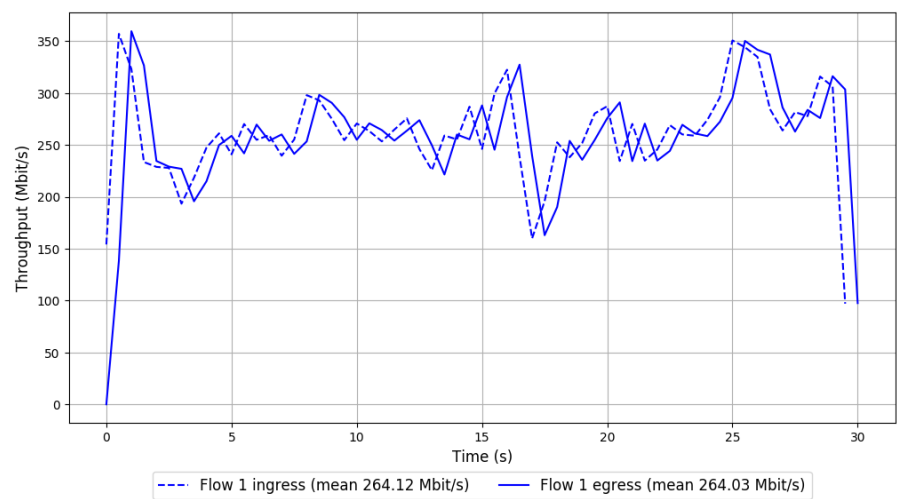
-- Flow 1:

Average throughput: 264.03 Mbit/s

95th percentile per-packet one-way delay: 19.016 ms

Loss rate: 0.09%

Run 4: Report of Muses_DecisionTreeR0 — Data Link



Run 5: Statistics of Muses_DecisionTreeR0

Start at: 2019-10-03 09:42:16

End at: 2019-10-03 09:42:47

Local clock offset: 4.552 ms

Remote clock offset: 0.011 ms

Below is generated by plot.py at 2019-10-03 10:41:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 161.26 Mbit/s

95th percentile per-packet one-way delay: 19.282 ms

Loss rate: 0.07%

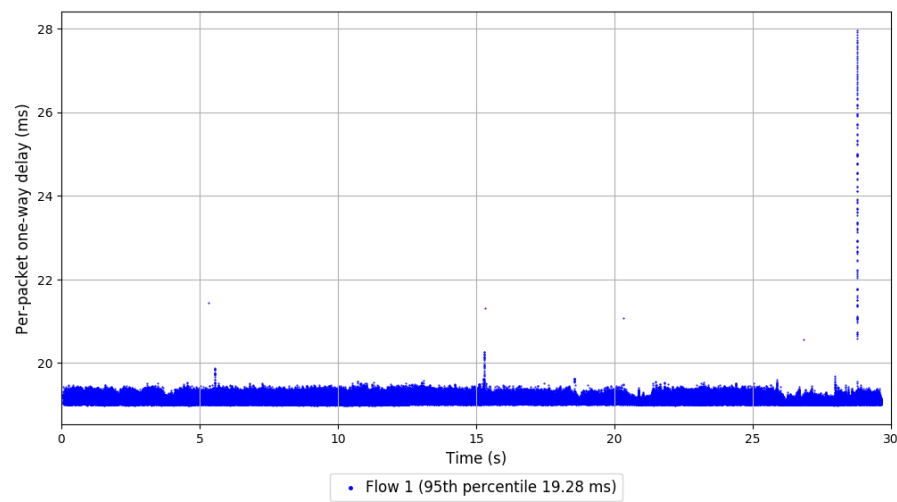
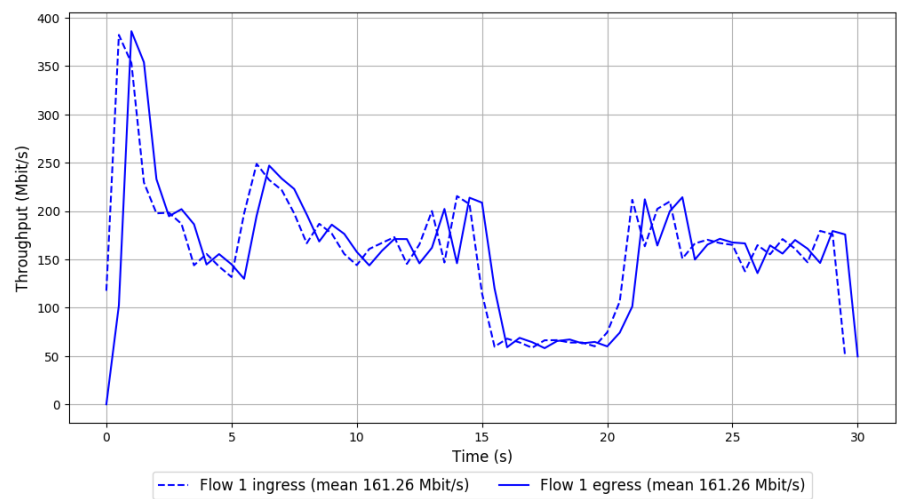
-- Flow 1:

Average throughput: 161.26 Mbit/s

95th percentile per-packet one-way delay: 19.282 ms

Loss rate: 0.07%

Run 5: Report of Muses_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-10-03 07:28:58

End at: 2019-10-03 07:29:28

Local clock offset: 5.291 ms

Remote clock offset: 0.352 ms

Below is generated by plot.py at 2019-10-03 10:49:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 920.05 Mbit/s

95th percentile per-packet one-way delay: 88.267 ms

Loss rate: 0.08%

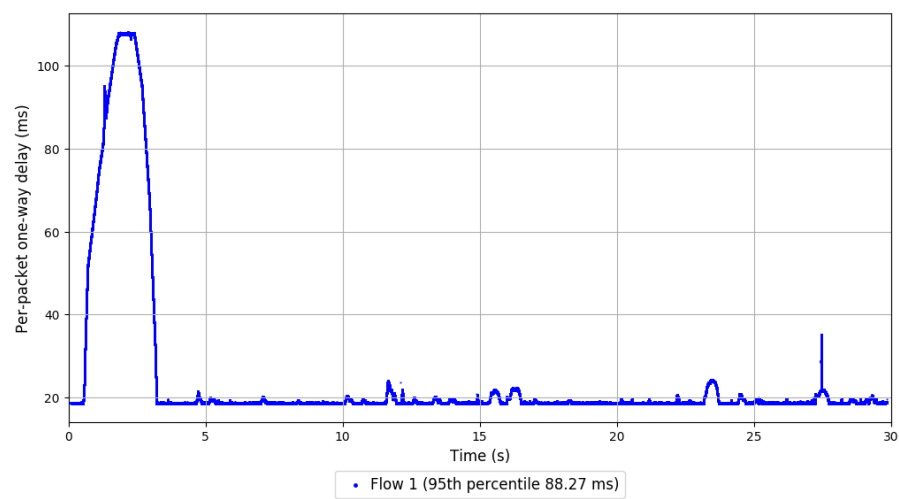
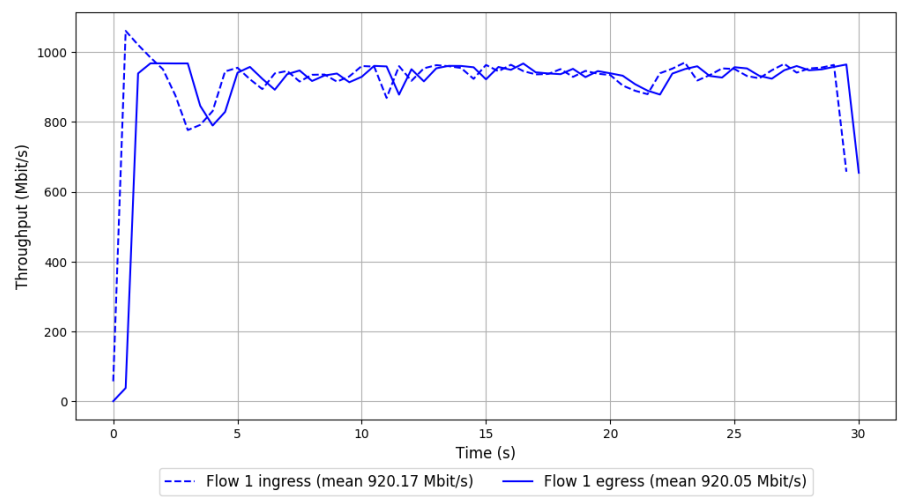
-- Flow 1:

Average throughput: 920.05 Mbit/s

95th percentile per-packet one-way delay: 88.267 ms

Loss rate: 0.08%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-10-03 08:03:25

End at: 2019-10-03 08:03:55

Local clock offset: 6.141 ms

Remote clock offset: 0.185 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 917.65 Mbit/s

95th percentile per-packet one-way delay: 43.765 ms

Loss rate: 0.07%

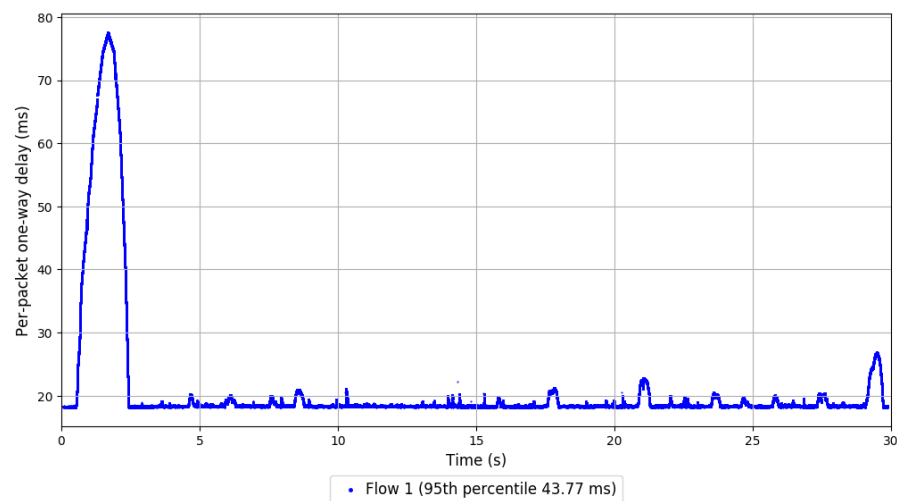
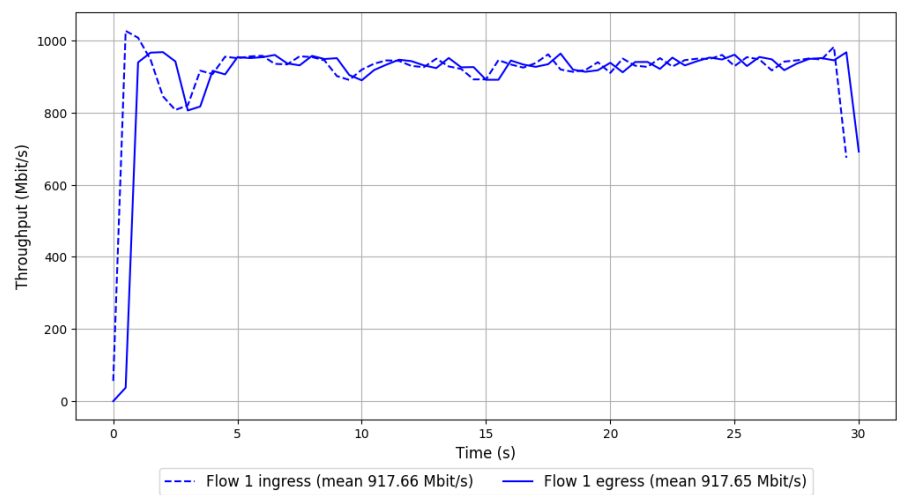
-- Flow 1:

Average throughput: 917.65 Mbit/s

95th percentile per-packet one-way delay: 43.765 ms

Loss rate: 0.07%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-10-03 08:37:43

End at: 2019-10-03 08:38:13

Local clock offset: 4.171 ms

Remote clock offset: 0.124 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 758.26 Mbit/s

95th percentile per-packet one-way delay: 4.149 ms

Loss rate: 0.01%

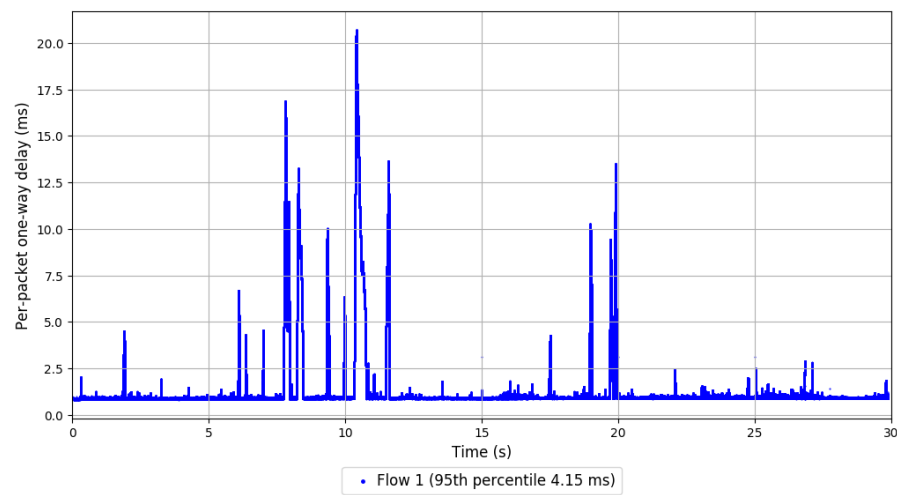
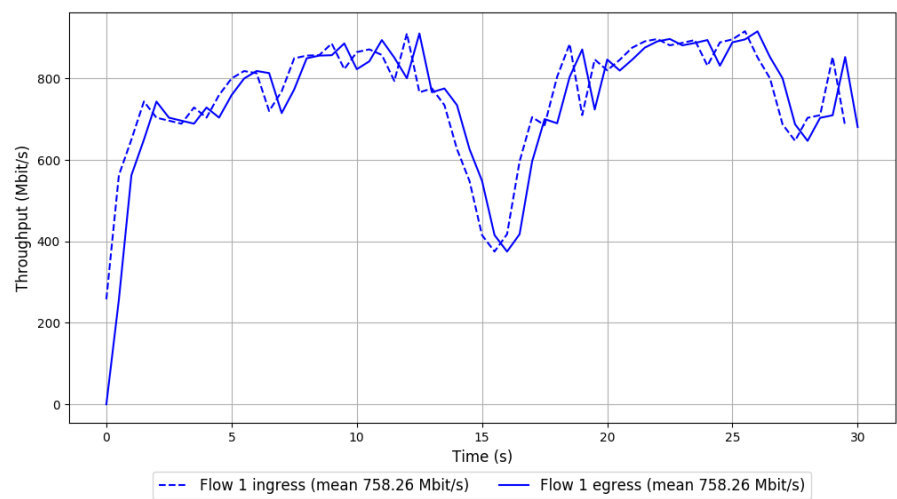
-- Flow 1:

Average throughput: 758.26 Mbit/s

95th percentile per-packet one-way delay: 4.149 ms

Loss rate: 0.01%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-10-03 09:11:34

End at: 2019-10-03 09:12:04

Local clock offset: 2.659 ms

Remote clock offset: 0.089 ms

Below is generated by plot.py at 2019-10-03 10:50:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 918.23 Mbit/s

95th percentile per-packet one-way delay: 42.906 ms

Loss rate: 0.07%

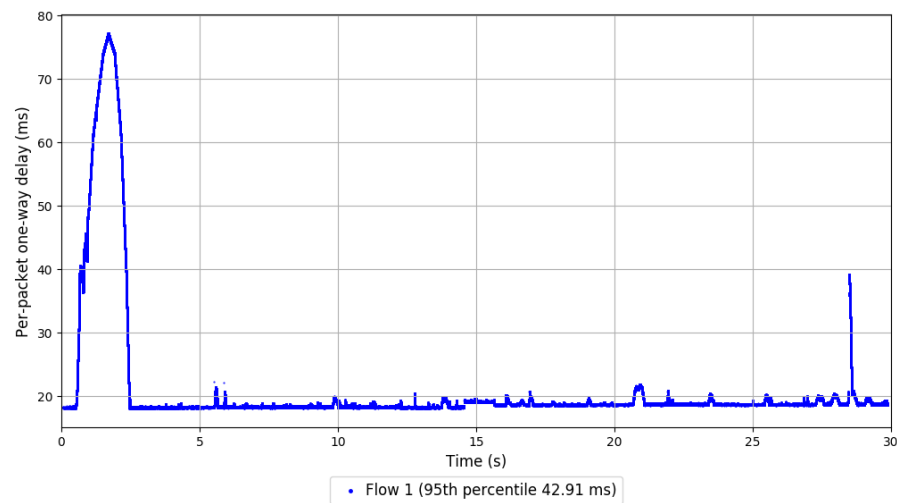
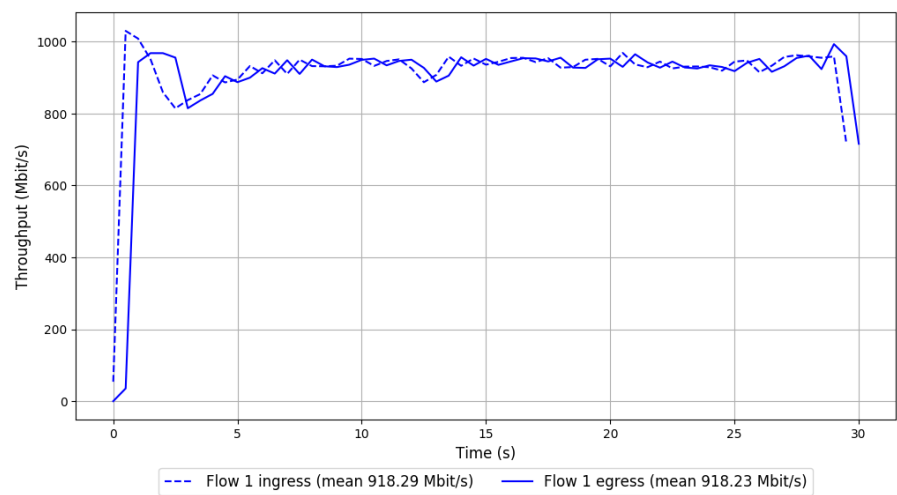
-- Flow 1:

Average throughput: 918.23 Mbit/s

95th percentile per-packet one-way delay: 42.906 ms

Loss rate: 0.07%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-10-03 09:45:04

End at: 2019-10-03 09:45:34

Local clock offset: 4.693 ms

Remote clock offset: 0.088 ms

Below is generated by plot.py at 2019-10-03 10:50:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 692.89 Mbit/s

95th percentile per-packet one-way delay: 1.934 ms

Loss rate: 0.01%

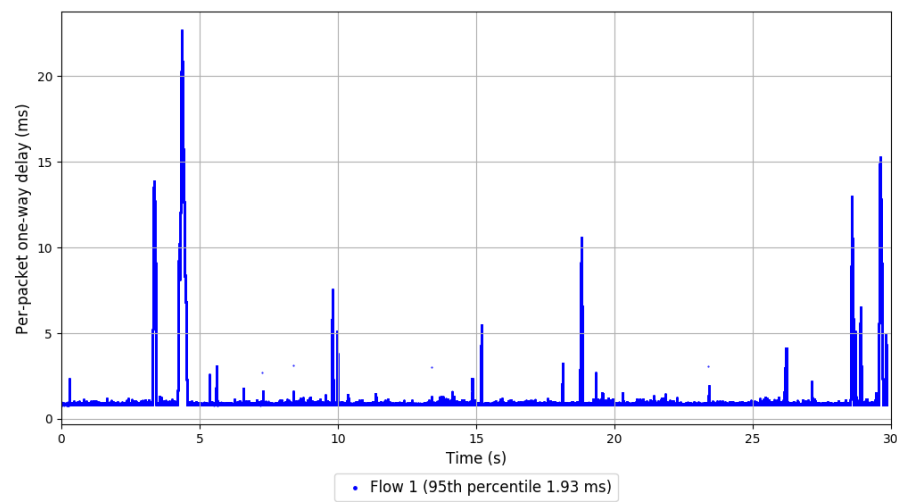
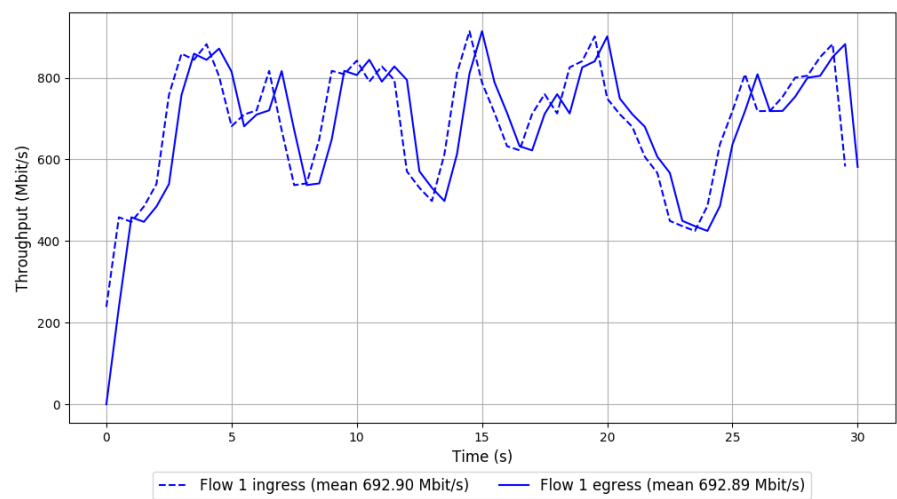
-- Flow 1:

Average throughput: 692.89 Mbit/s

95th percentile per-packet one-way delay: 1.934 ms

Loss rate: 0.01%

Run 5: Report of PCC-Allegro — Data Link

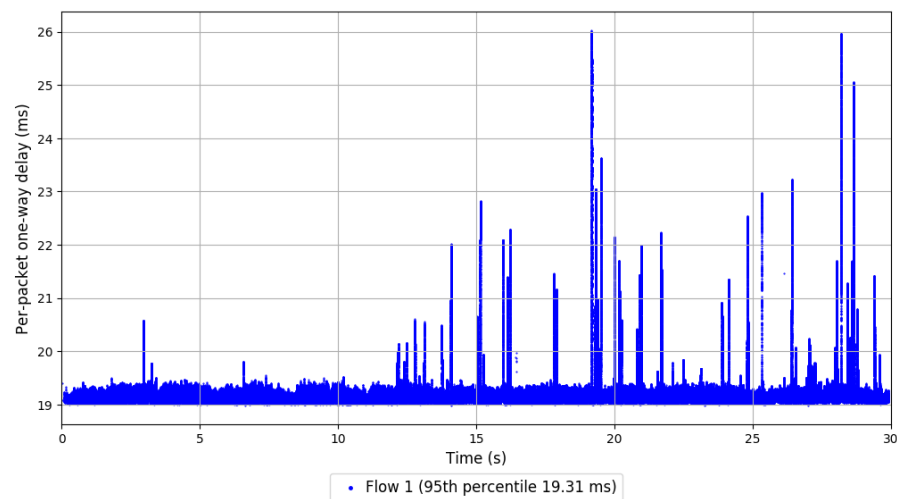
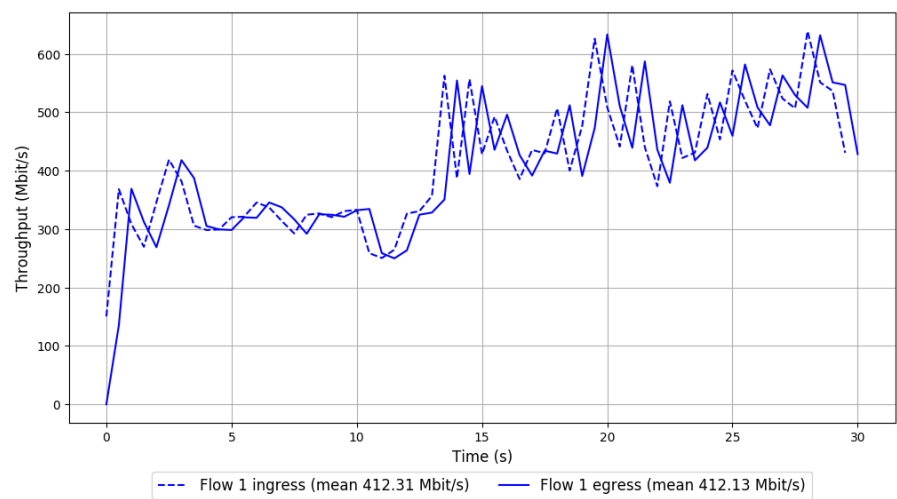


```
Run 1: Statistics of PCC-Expr

Start at: 2019-10-03 07:07:25
End at: 2019-10-03 07:07:55
Local clock offset: 4.728 ms
Remote clock offset: 0.258 ms

# Below is generated by plot.py at 2019-10-03 10:50:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 412.13 Mbit/s
95th percentile per-packet one-way delay: 19.311 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 412.13 Mbit/s
95th percentile per-packet one-way delay: 19.311 ms
Loss rate: 0.11%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-10-03 07:41:36

End at: 2019-10-03 07:42:06

Local clock offset: 5.619 ms

Remote clock offset: 0.404 ms

Below is generated by plot.py at 2019-10-03 10:50:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 425.34 Mbit/s

95th percentile per-packet one-way delay: 19.180 ms

Loss rate: 0.05%

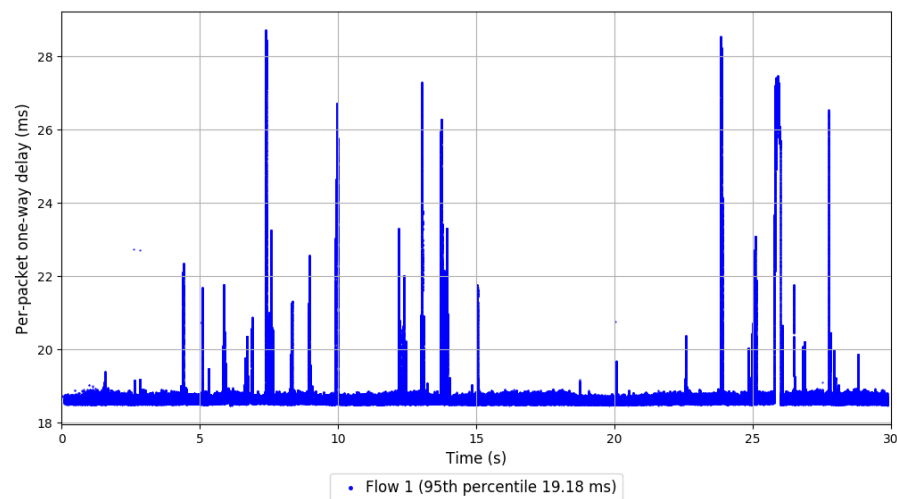
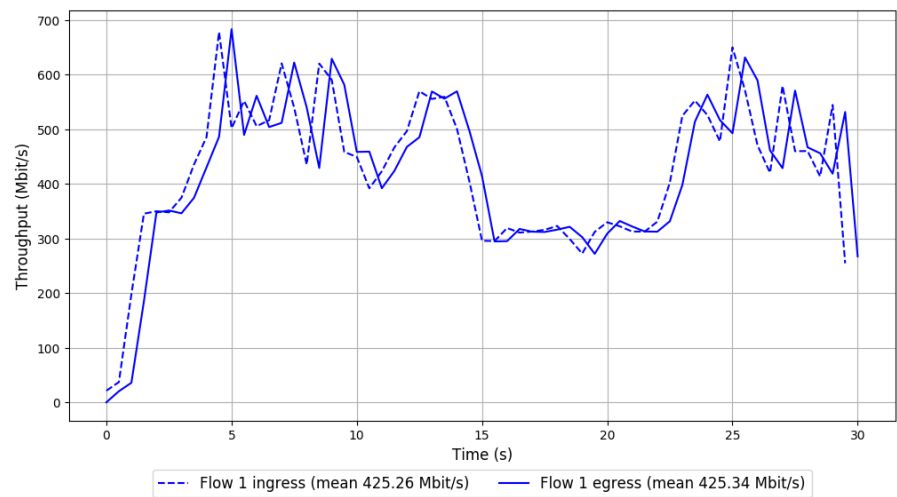
-- Flow 1:

Average throughput: 425.34 Mbit/s

95th percentile per-packet one-way delay: 19.180 ms

Loss rate: 0.05%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-10-03 08:16:15

End at: 2019-10-03 08:16:45

Local clock offset: 6.363 ms

Remote clock offset: 0.267 ms

Below is generated by plot.py at 2019-10-03 10:51:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 451.38 Mbit/s

95th percentile per-packet one-way delay: 2.401 ms

Loss rate: 0.00%

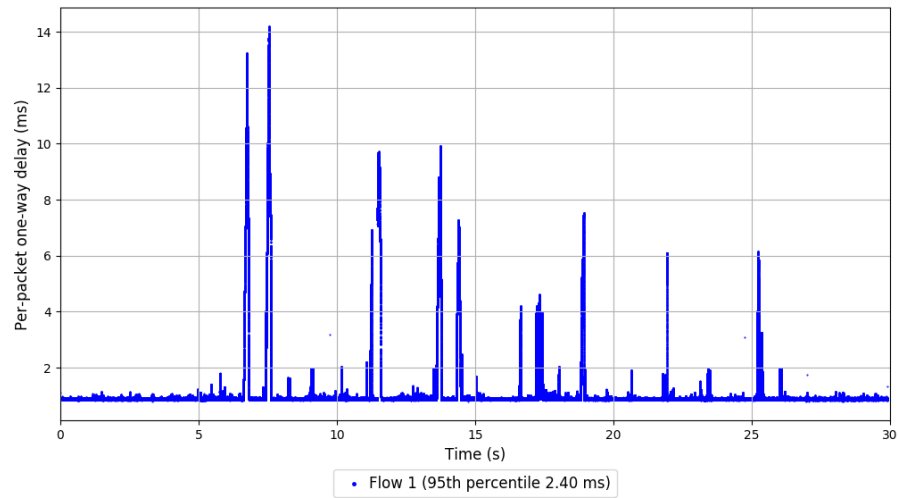
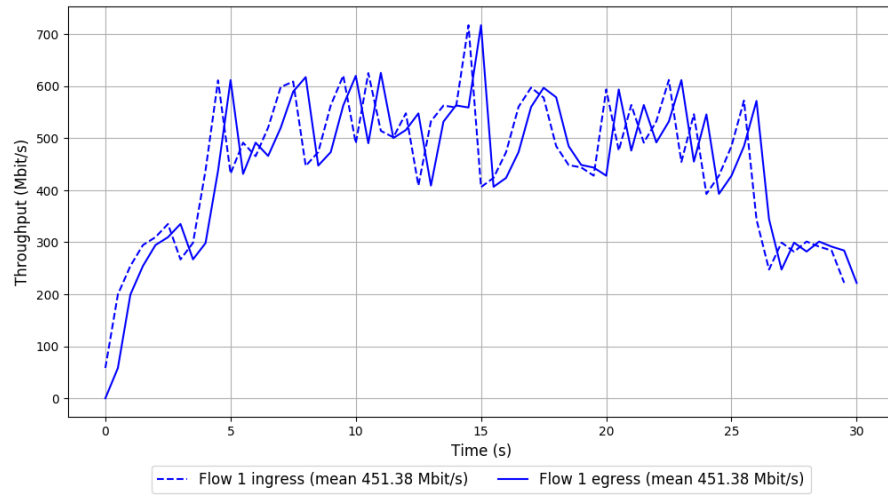
-- Flow 1:

Average throughput: 451.38 Mbit/s

95th percentile per-packet one-way delay: 2.401 ms

Loss rate: 0.00%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-10-03 08:50:11

End at: 2019-10-03 08:50:41

Local clock offset: 3.389 ms

Remote clock offset: -0.03 ms

Below is generated by plot.py at 2019-10-03 10:51:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.64 Mbit/s

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

Loss rate: 0.00%

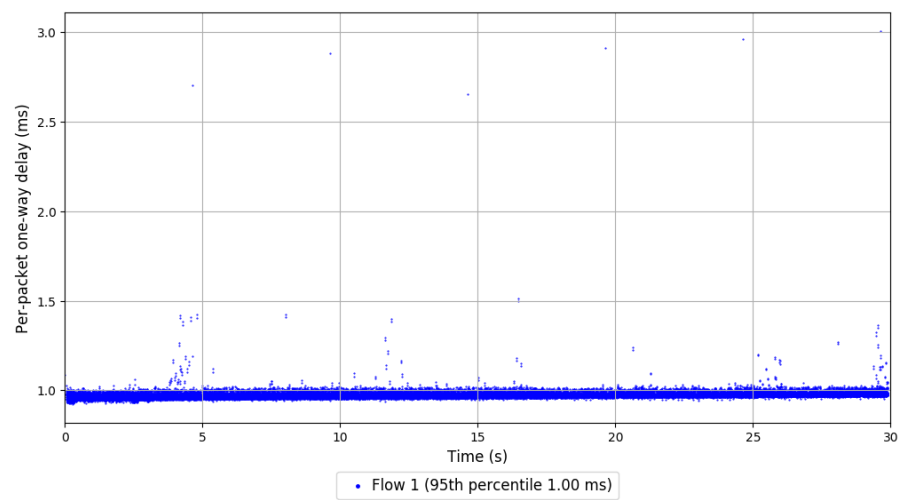
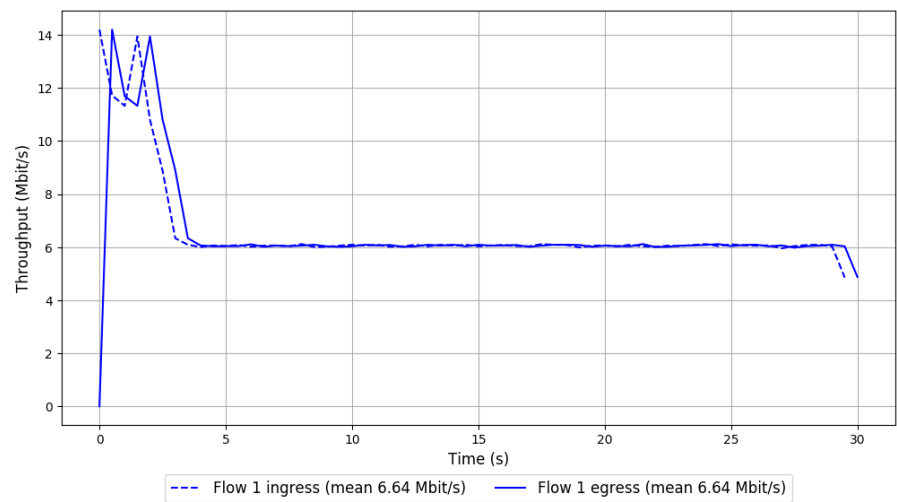
-- Flow 1:

Average throughput: 6.64 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-10-03 09:24:07

End at: 2019-10-03 09:24:37

Local clock offset: 2.279 ms

Remote clock offset: 0.109 ms

Below is generated by plot.py at 2019-10-03 10:51:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.51 Mbit/s

95th percentile per-packet one-way delay: 0.948 ms

Loss rate: 0.00%

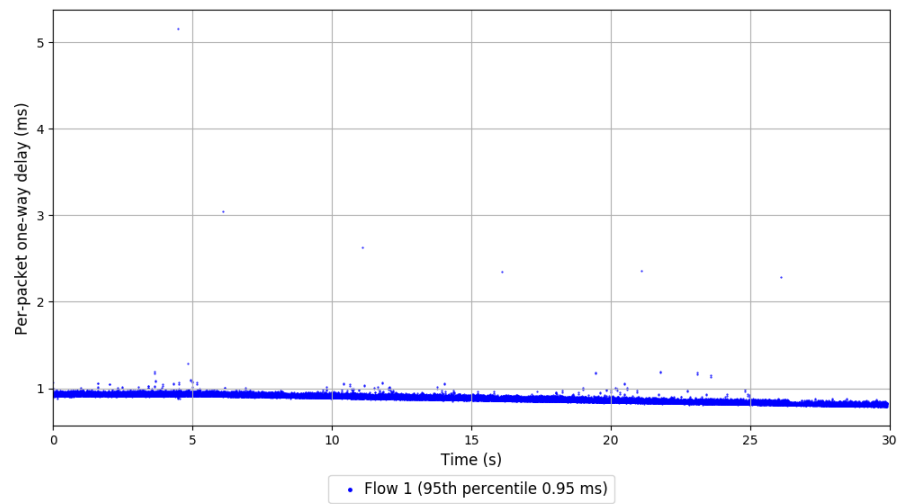
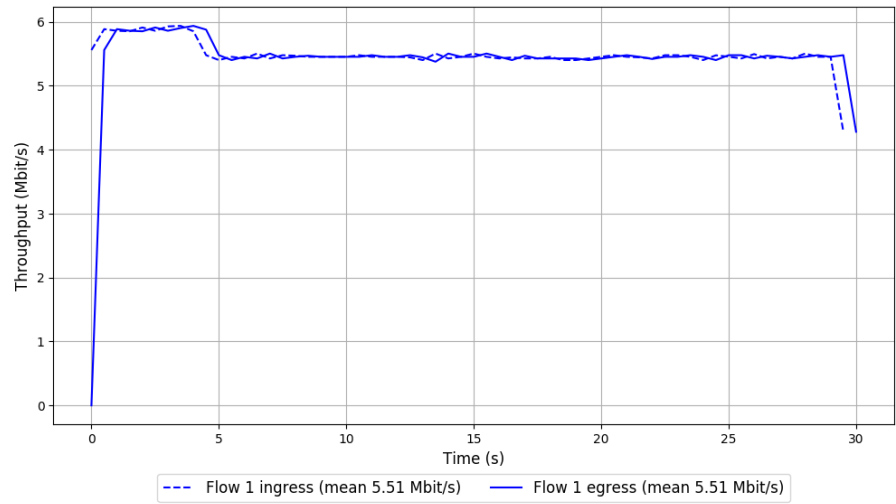
-- Flow 1:

Average throughput: 5.51 Mbit/s

95th percentile per-packet one-way delay: 0.948 ms

Loss rate: 0.00%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-10-03 07:06:09

End at: 2019-10-03 07:06:39

Local clock offset: 4.678 ms

Remote clock offset: 0.234 ms

Below is generated by plot.py at 2019-10-03 10:51:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.16 Mbit/s

95th percentile per-packet one-way delay: 19.011 ms

Loss rate: 0.08%

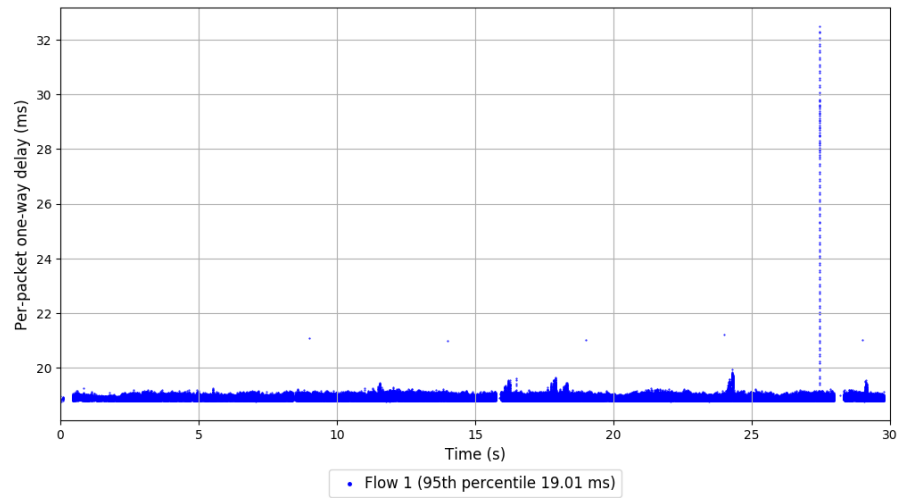
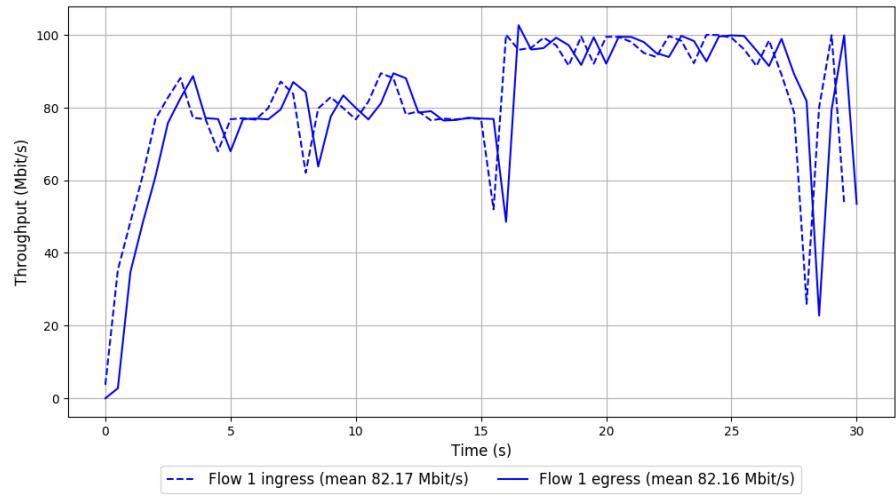
-- Flow 1:

Average throughput: 82.16 Mbit/s

95th percentile per-packet one-way delay: 19.011 ms

Loss rate: 0.08%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-10-03 07:40:20

End at: 2019-10-03 07:40:50

Local clock offset: 5.635 ms

Remote clock offset: 0.437 ms

Below is generated by plot.py at 2019-10-03 10:51:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.59 Mbit/s

95th percentile per-packet one-way delay: 0.934 ms

Loss rate: 0.01%

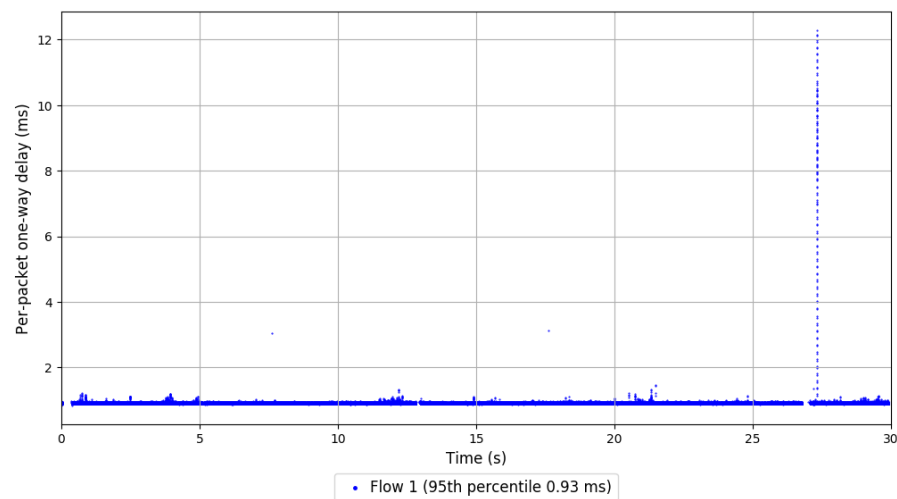
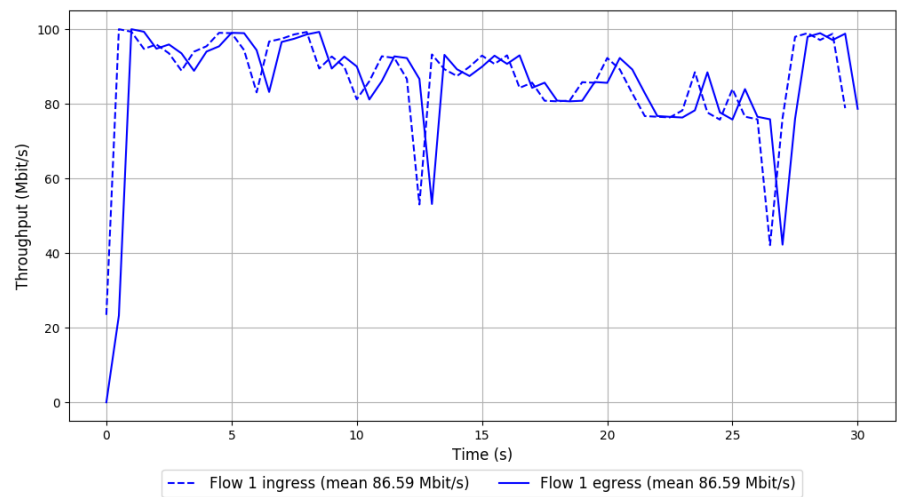
-- Flow 1:

Average throughput: 86.59 Mbit/s

95th percentile per-packet one-way delay: 0.934 ms

Loss rate: 0.01%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-10-03 08:14:58

End at: 2019-10-03 08:15:28

Local clock offset: 6.355 ms

Remote clock offset: 0.337 ms

Below is generated by plot.py at 2019-10-03 10:51:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.45 Mbit/s

95th percentile per-packet one-way delay: 0.835 ms

Loss rate: 0.01%

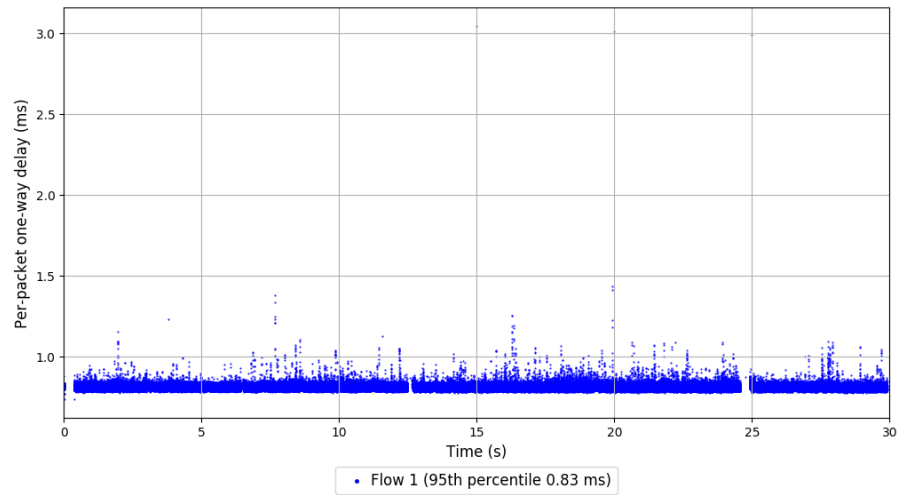
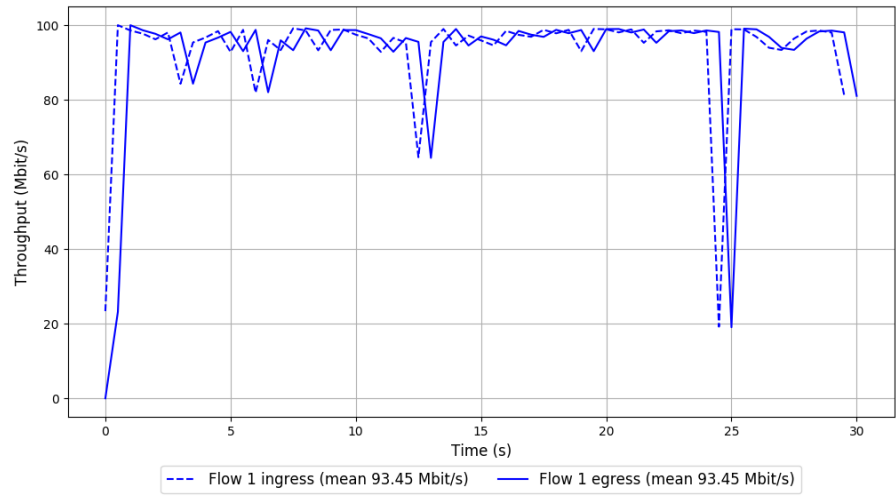
-- Flow 1:

Average throughput: 93.45 Mbit/s

95th percentile per-packet one-way delay: 0.835 ms

Loss rate: 0.01%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-10-03 08:48:55

End at: 2019-10-03 08:49:25

Local clock offset: 3.451 ms

Remote clock offset: -0.005 ms

Below is generated by plot.py at 2019-10-03 10:51:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.73 Mbit/s

95th percentile per-packet one-way delay: 1.007 ms

Loss rate: 0.01%

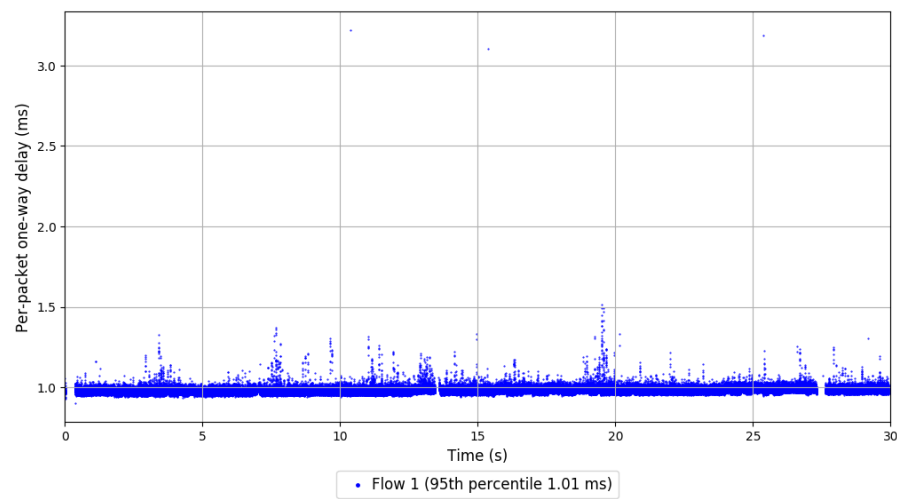
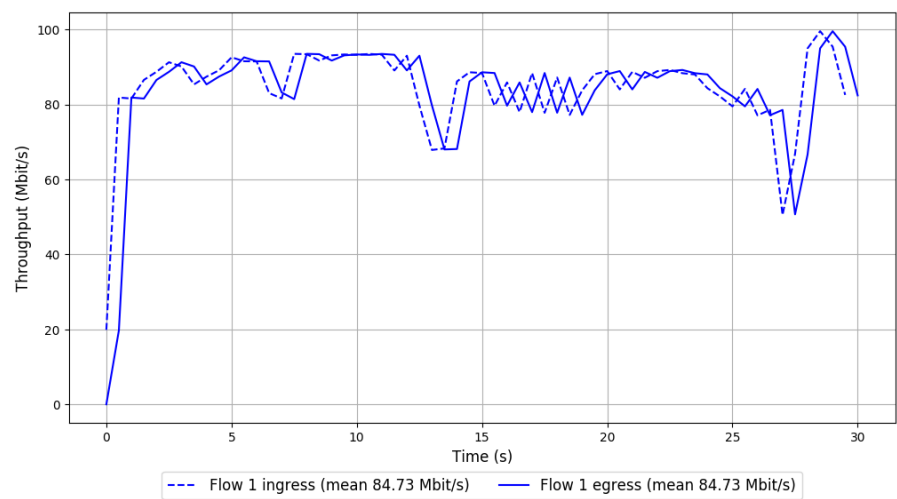
-- Flow 1:

Average throughput: 84.73 Mbit/s

95th percentile per-packet one-way delay: 1.007 ms

Loss rate: 0.01%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-10-03 09:22:50

End at: 2019-10-03 09:23:20

Local clock offset: 2.322 ms

Remote clock offset: 0.056 ms

Below is generated by plot.py at 2019-10-03 10:51:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.52 Mbit/s

95th percentile per-packet one-way delay: 19.571 ms

Loss rate: 0.06%

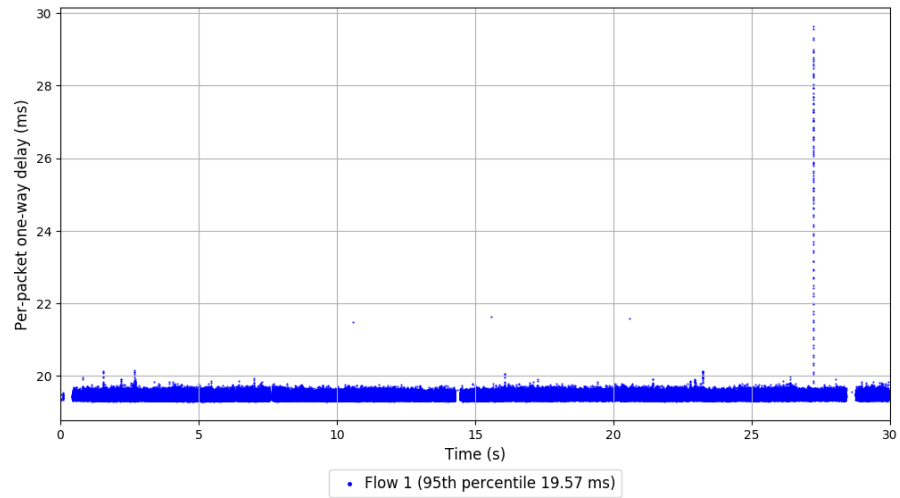
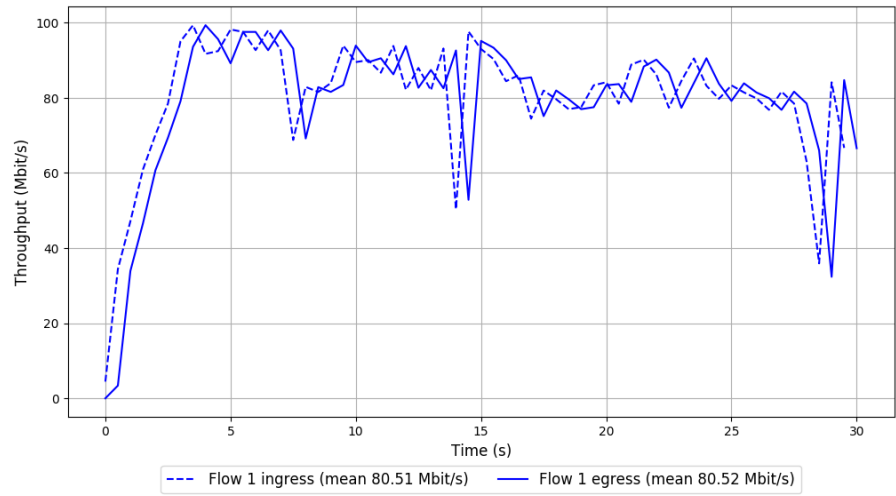
-- Flow 1:

Average throughput: 80.52 Mbit/s

95th percentile per-packet one-way delay: 19.571 ms

Loss rate: 0.06%

Run 5: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2019-10-03 07:23:38

End at: 2019-10-03 07:24:08

Local clock offset: 5.092 ms

Remote clock offset: 0.352 ms

Below is generated by plot.py at 2019-10-03 10:51:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.13%

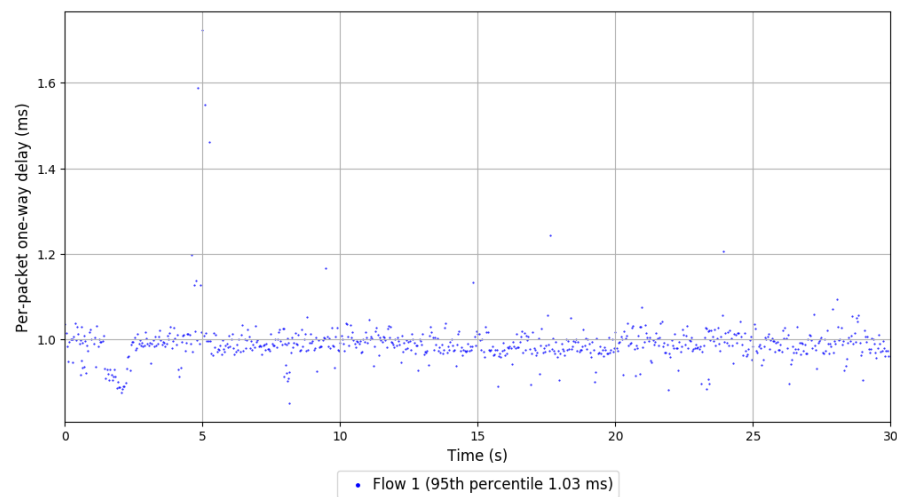
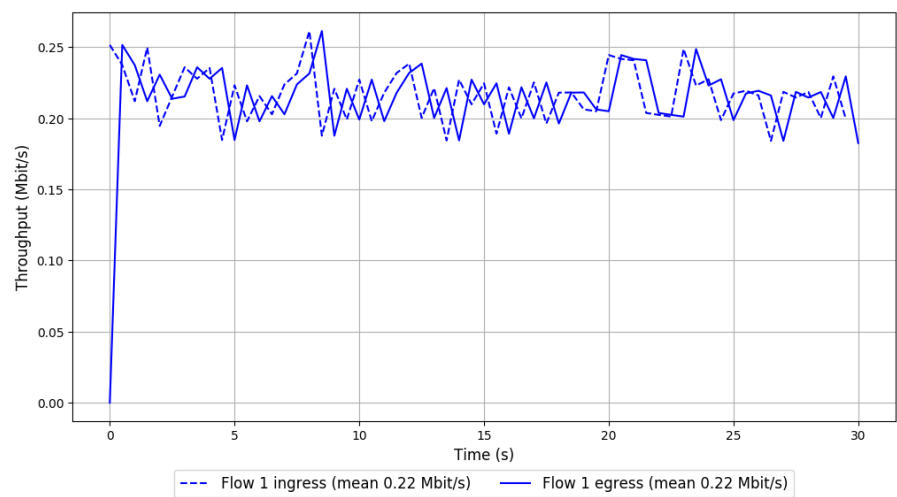
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.13%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-10-03 07:57:36

End at: 2019-10-03 07:58:06

Local clock offset: 6.012 ms

Remote clock offset: 0.347 ms

Below is generated by plot.py at 2019-10-03 10:51:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.031 ms

Loss rate: 0.00%

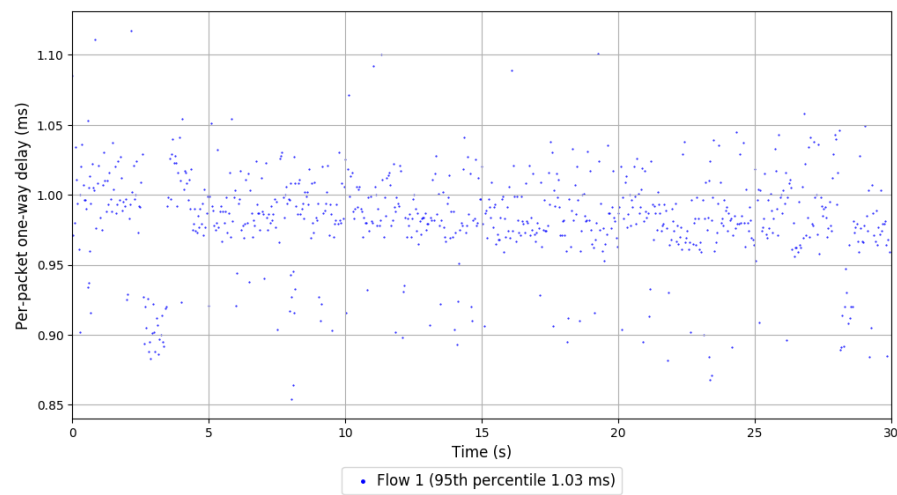
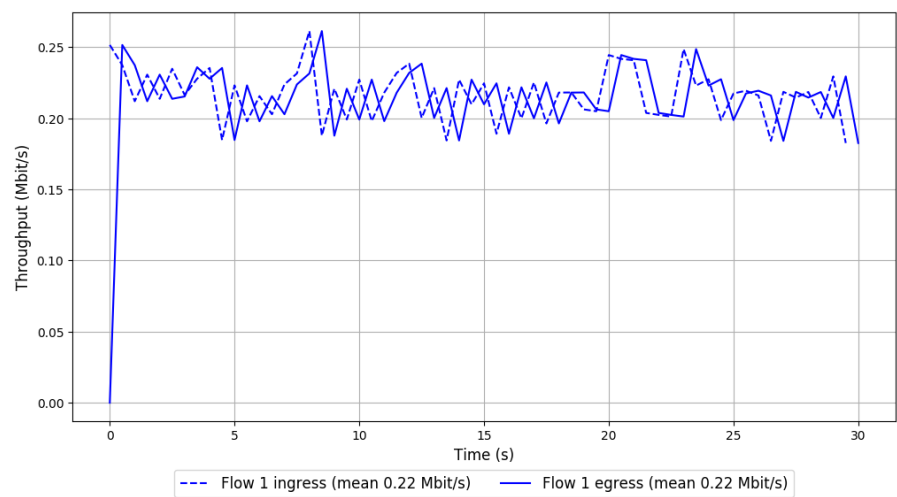
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.031 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-10-03 08:32:06

End at: 2019-10-03 08:32:36

Local clock offset: 4.828 ms

Remote clock offset: 0.087 ms

Below is generated by plot.py at 2019-10-03 10:51:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.468 ms

Loss rate: 0.13%

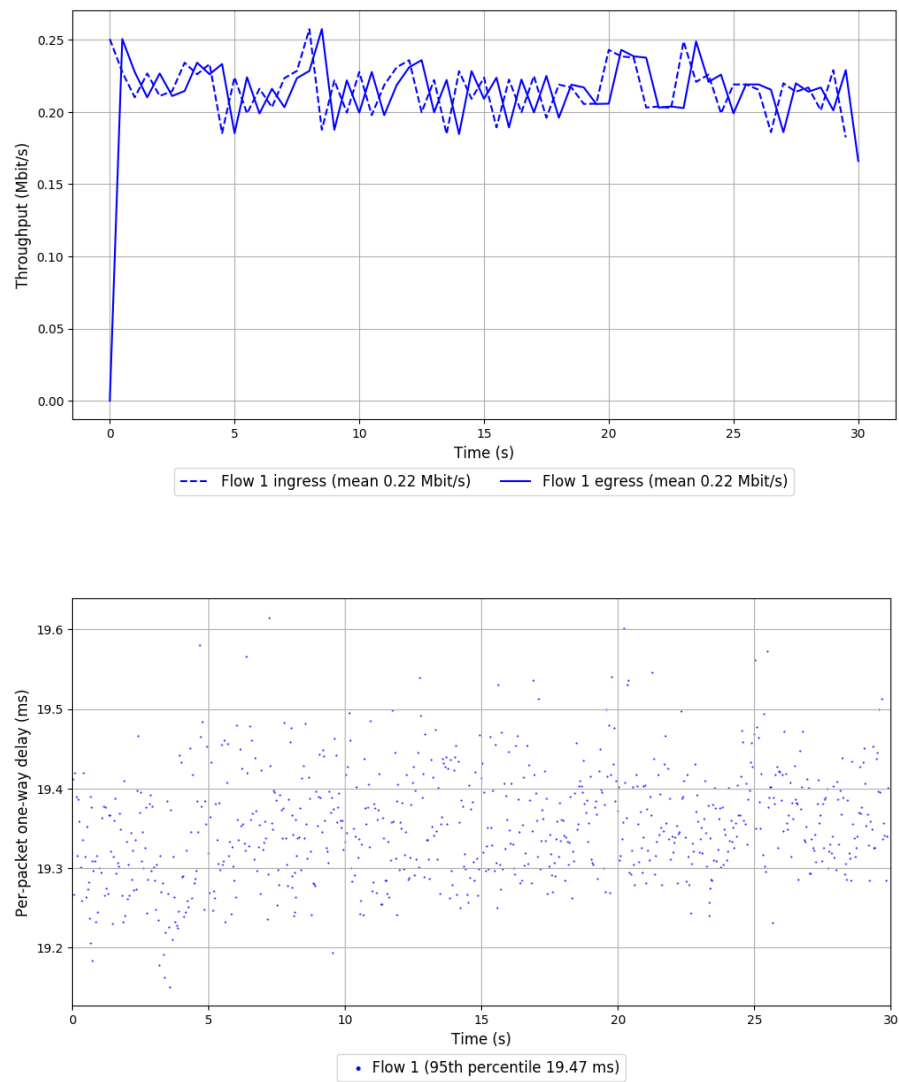
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.468 ms

Loss rate: 0.13%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-10-03 09:05:55

End at: 2019-10-03 09:06:25

Local clock offset: 2.843 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2019-10-03 10:51:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.200 ms

Loss rate: 0.13%

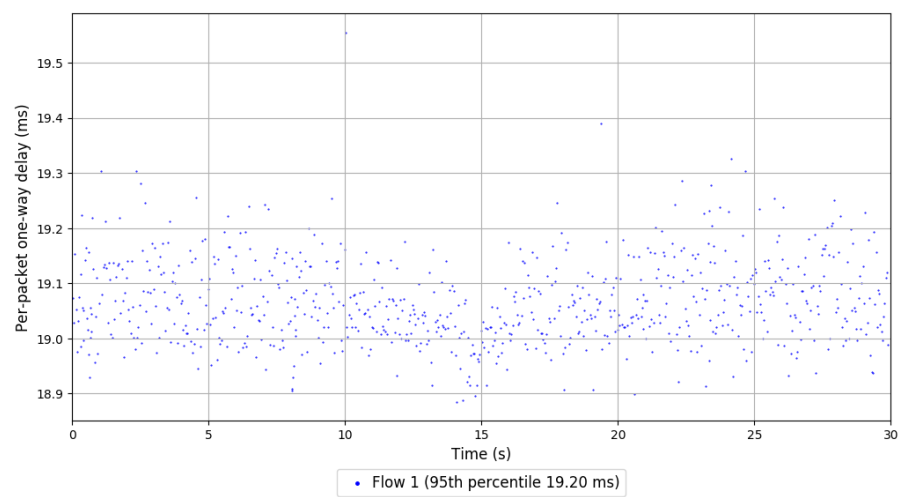
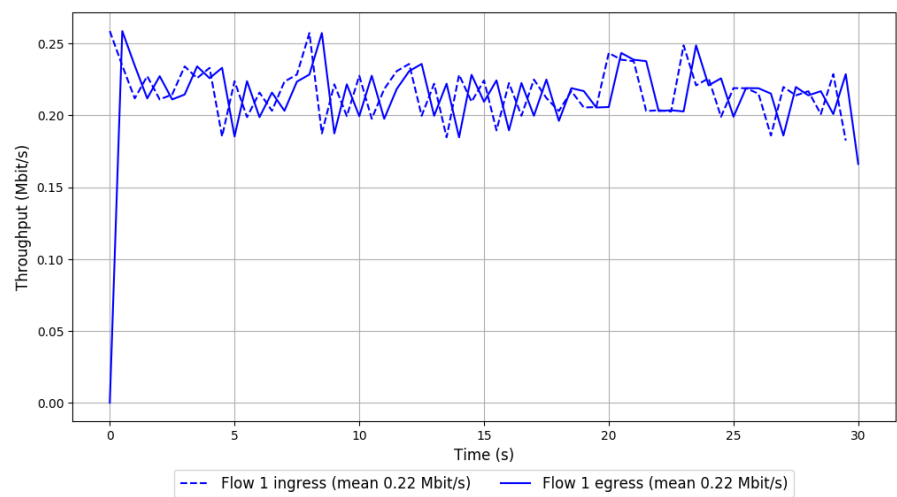
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.200 ms

Loss rate: 0.13%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-10-03 09:39:33

End at: 2019-10-03 09:40:03

Local clock offset: 4.411 ms

Remote clock offset: 0.015 ms

Below is generated by plot.py at 2019-10-03 10:51:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.046 ms

Loss rate: 0.00%

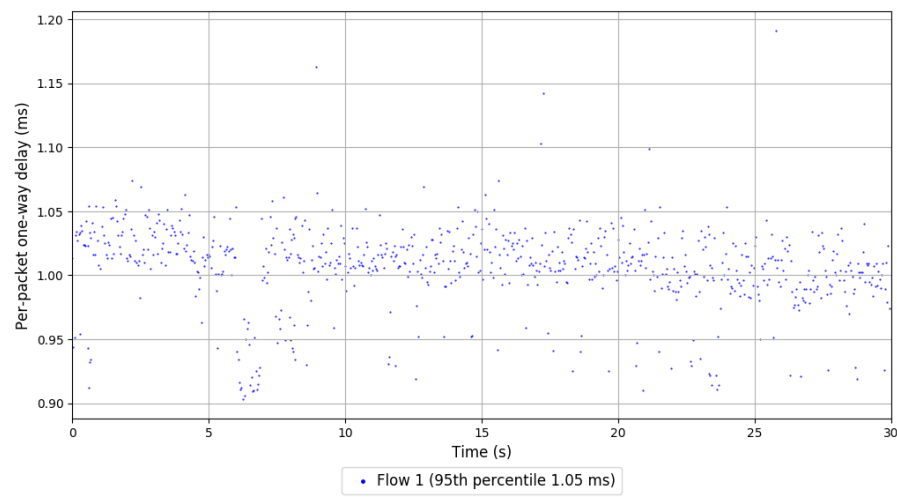
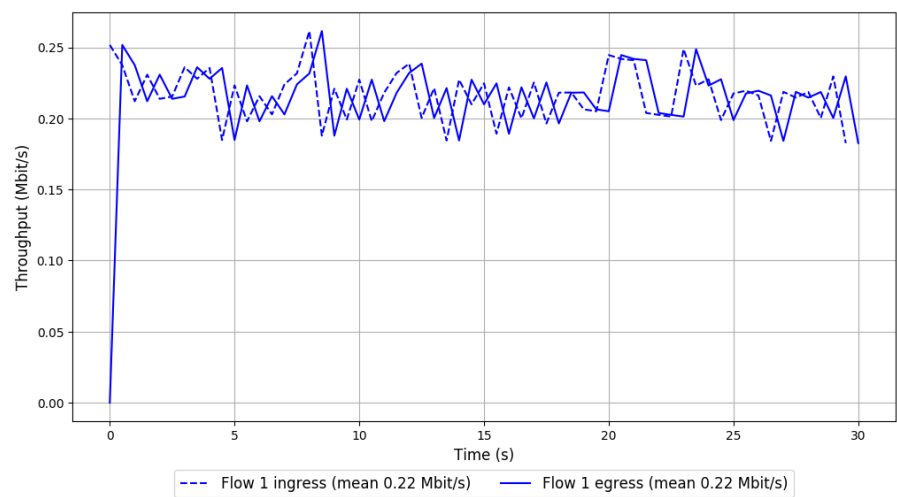
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.046 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-10-03 07:19:26

End at: 2019-10-03 07:19:56

Local clock offset: 5.079 ms

Remote clock offset: 0.578 ms

Below is generated by plot.py at 2019-10-03 10:51:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.27 Mbit/s

95th percentile per-packet one-way delay: 0.959 ms

Loss rate: 0.00%

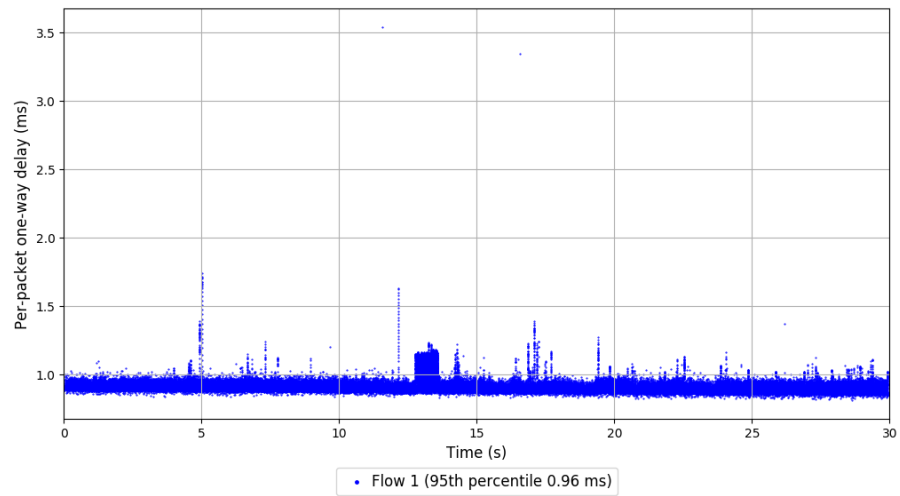
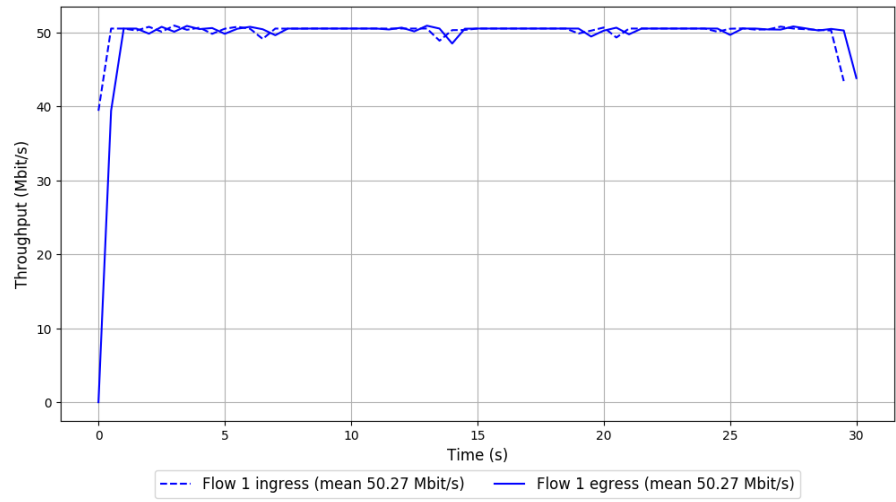
-- Flow 1:

Average throughput: 50.27 Mbit/s

95th percentile per-packet one-way delay: 0.959 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-10-03 07:53:26

End at: 2019-10-03 07:53:56

Local clock offset: 5.909 ms

Remote clock offset: 0.48 ms

Below is generated by plot.py at 2019-10-03 10:51:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.22 Mbit/s

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

Loss rate: 0.00%

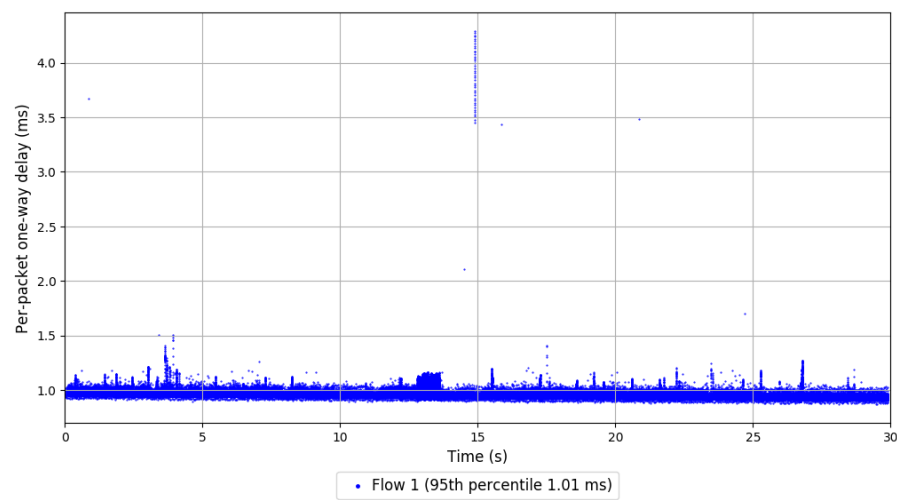
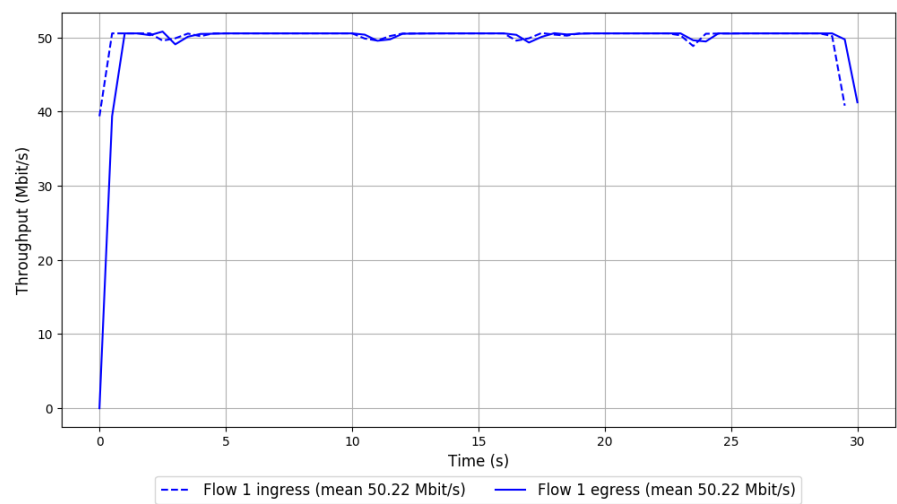
-- Flow 1:

Average throughput: 50.22 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-10-03 08:27:57

End at: 2019-10-03 08:28:27

Local clock offset: 5.634 ms

Remote clock offset: 0.29 ms

Below is generated by plot.py at 2019-10-03 10:51:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.36 Mbit/s

95th percentile per-packet one-way delay: 18.953 ms

Loss rate: 0.06%

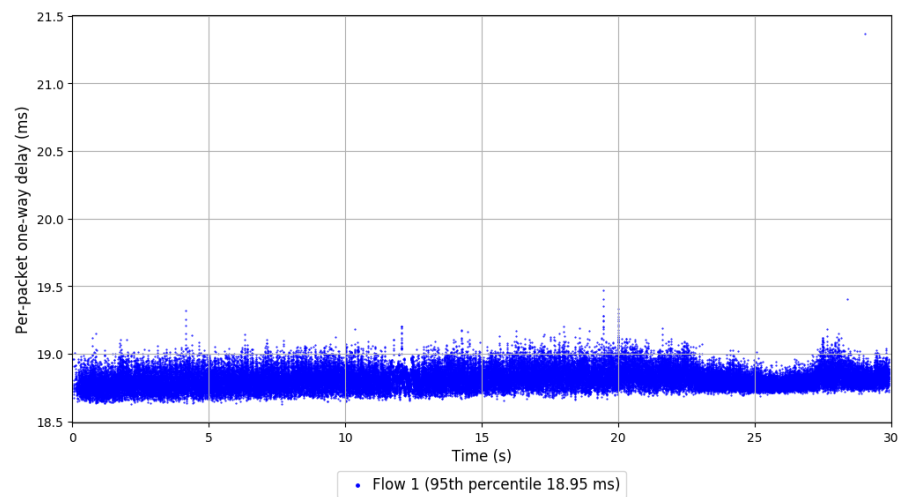
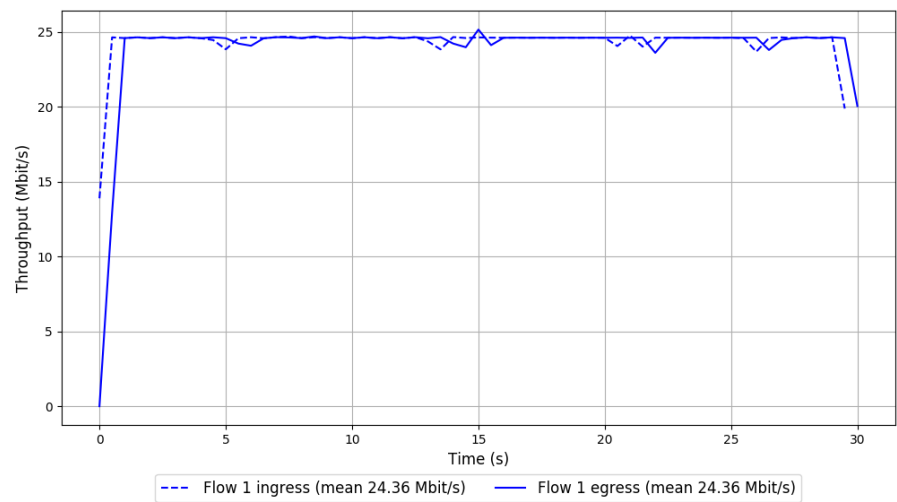
-- Flow 1:

Average throughput: 24.36 Mbit/s

95th percentile per-packet one-way delay: 18.953 ms

Loss rate: 0.06%

Run 3: Report of Sprout — Data Link

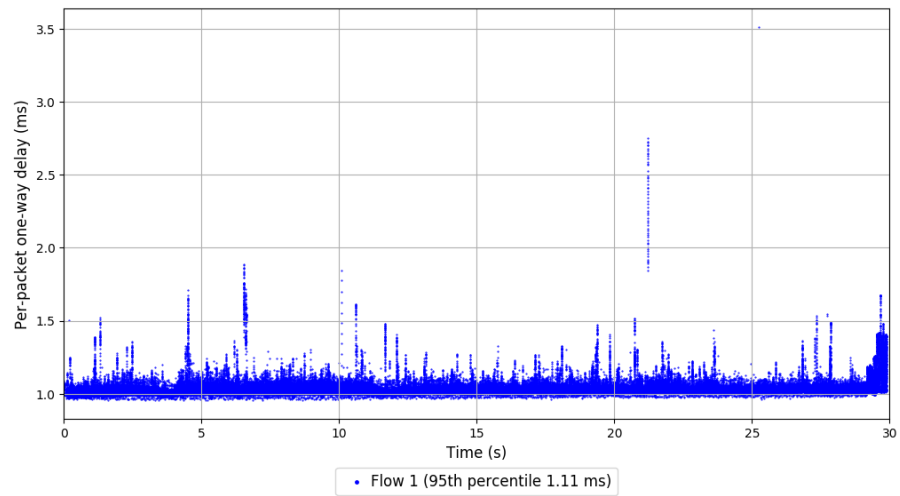
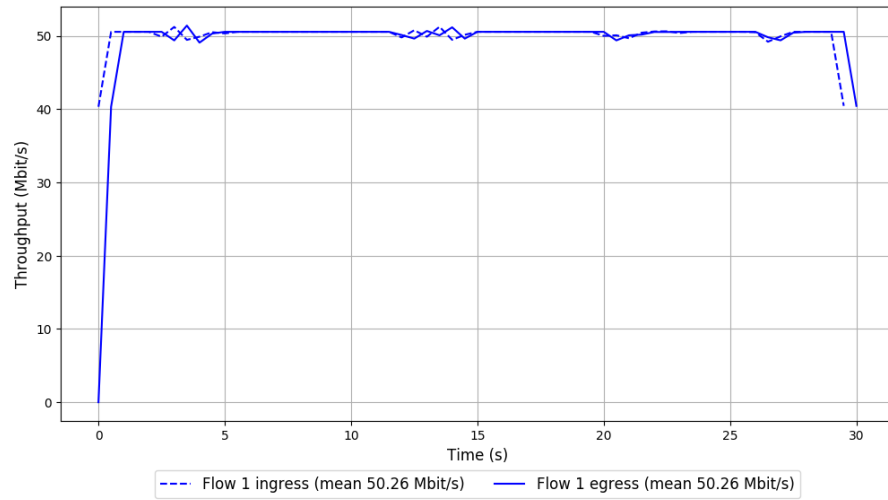


Run 4: Statistics of Sprout

Start at: 2019-10-03 09:01:40
End at: 2019-10-03 09:02:10
Local clock offset: 3.004 ms
Remote clock offset: -0.023 ms

Below is generated by plot.py at 2019-10-03 10:51:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.26 Mbit/s
95th percentile per-packet one-way delay: 1.106 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.26 Mbit/s
95th percentile per-packet one-way delay: 1.106 ms
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-10-03 09:35:21

End at: 2019-10-03 09:35:51

Local clock offset: 4.06 ms

Remote clock offset: 0.077 ms

Below is generated by plot.py at 2019-10-03 10:51:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.20 Mbit/s

95th percentile per-packet one-way delay: 0.898 ms

Loss rate: 0.00%

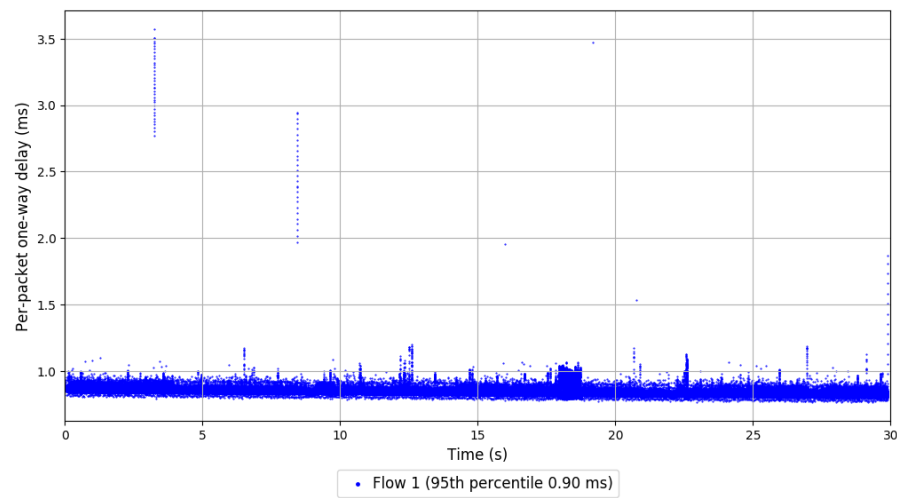
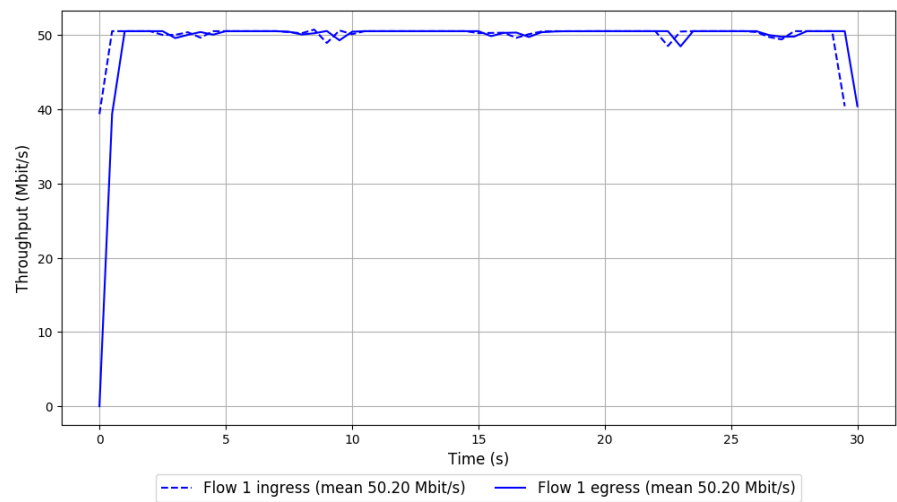
-- Flow 1:

Average throughput: 50.20 Mbit/s

95th percentile per-packet one-way delay: 0.898 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-10-03 07:13:29

End at: 2019-10-03 07:13:59

Local clock offset: 4.904 ms

Remote clock offset: 0.519 ms

Below is generated by plot.py at 2019-10-03 10:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 261.53 Mbit/s

95th percentile per-packet one-way delay: 18.964 ms

Loss rate: 0.06%

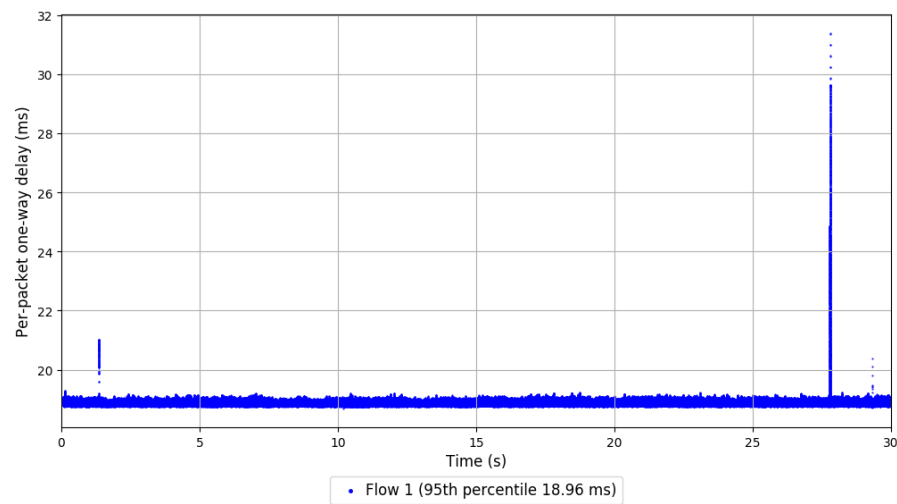
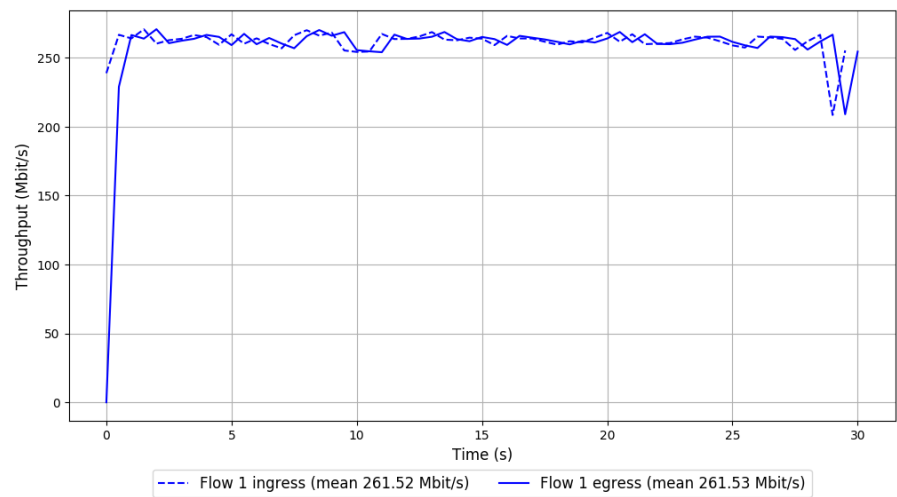
-- Flow 1:

Average throughput: 261.53 Mbit/s

95th percentile per-packet one-way delay: 18.964 ms

Loss rate: 0.06%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-10-03 07:47:39

End at: 2019-10-03 07:48:09

Local clock offset: 5.818 ms

Remote clock offset: 0.497 ms

Below is generated by plot.py at 2019-10-03 10:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.25 Mbit/s

95th percentile per-packet one-way delay: 18.427 ms

Loss rate: 0.06%

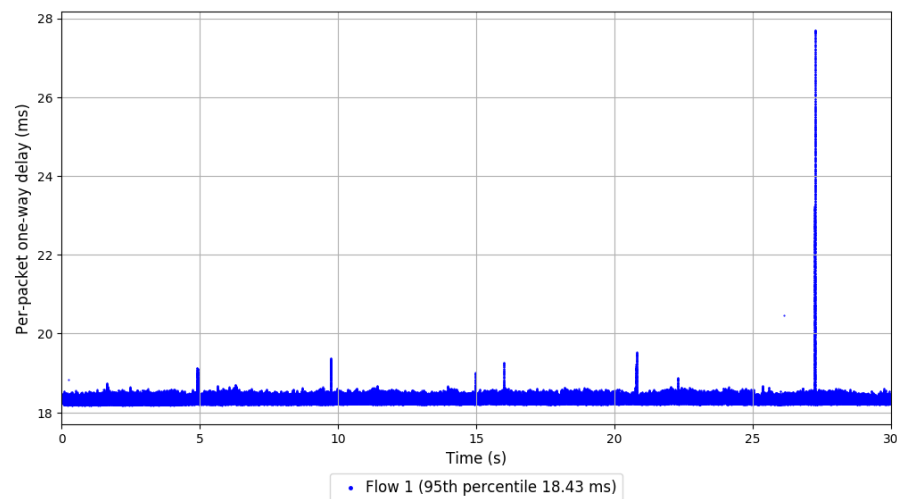
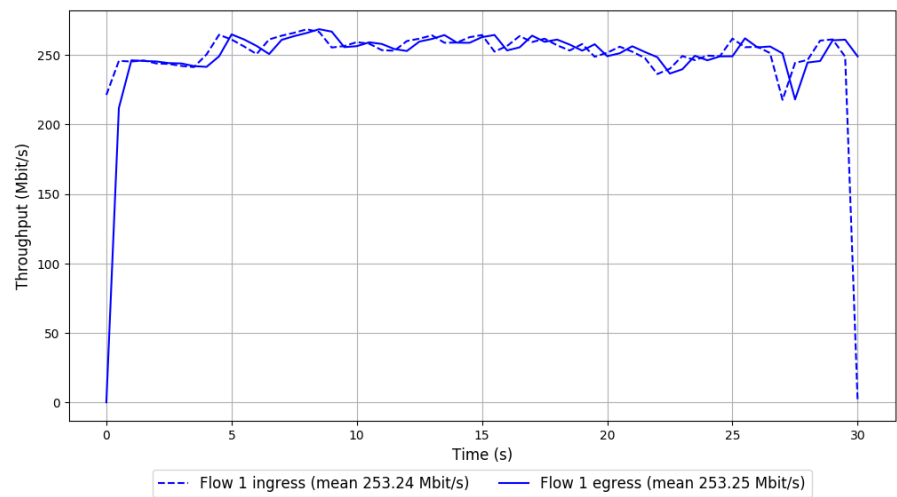
-- Flow 1:

Average throughput: 253.25 Mbit/s

95th percentile per-packet one-way delay: 18.427 ms

Loss rate: 0.06%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-10-03 08:22:20

End at: 2019-10-03 08:22:50

Local clock offset: 6.509 ms

Remote clock offset: 0.338 ms

Below is generated by plot.py at 2019-10-03 10:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.94 Mbit/s

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

Loss rate: 0.00%

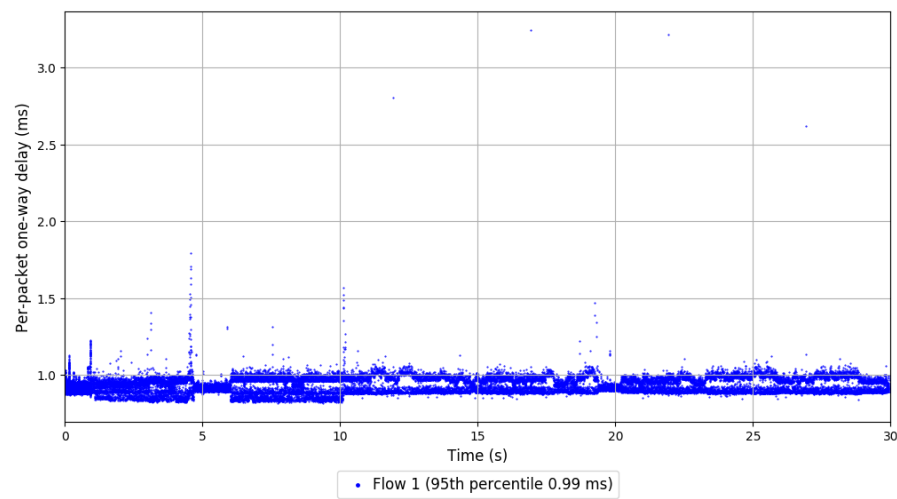
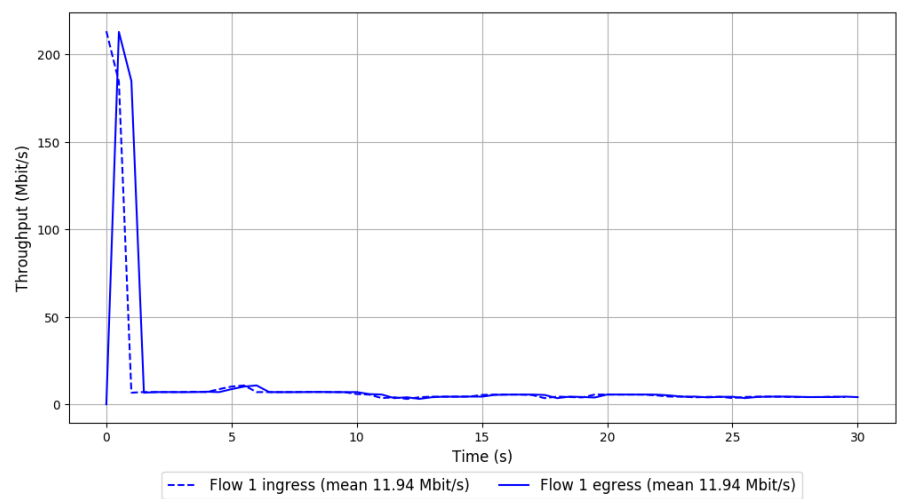
-- Flow 1:

Average throughput: 11.94 Mbit/s

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

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-10-03 08:55:44

End at: 2019-10-03 08:56:14

Local clock offset: 3.165 ms

Remote clock offset: -0.012 ms

Below is generated by plot.py at 2019-10-03 10:55:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 254.86 Mbit/s

95th percentile per-packet one-way delay: 19.960 ms

Loss rate: 0.07%

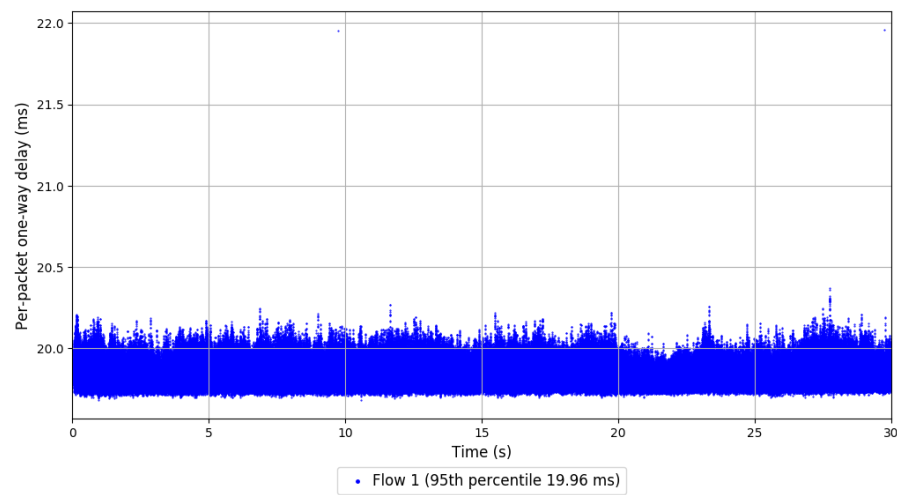
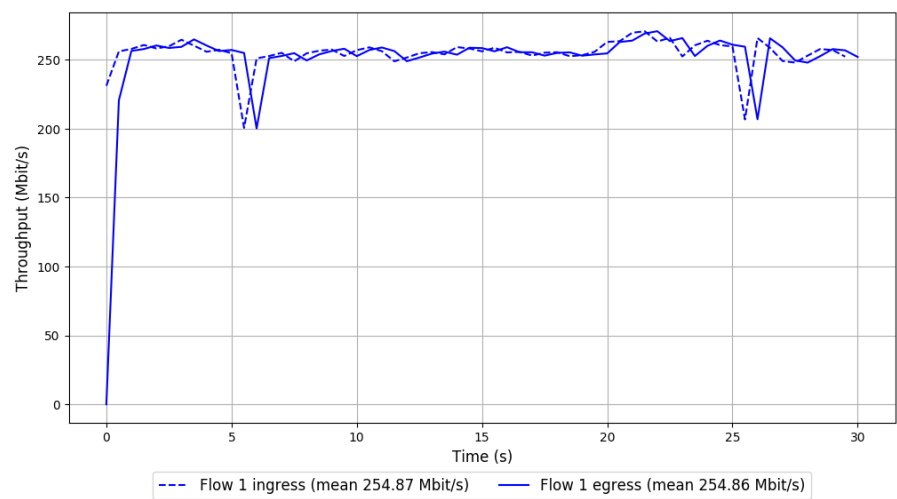
-- Flow 1:

Average throughput: 254.86 Mbit/s

95th percentile per-packet one-way delay: 19.960 ms

Loss rate: 0.07%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-10-03 09:29:40

End at: 2019-10-03 09:30:10

Local clock offset: 3.351 ms

Remote clock offset: 0.175 ms

Below is generated by plot.py at 2019-10-03 10:55:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.29 Mbit/s

95th percentile per-packet one-way delay: 0.775 ms

Loss rate: 0.00%

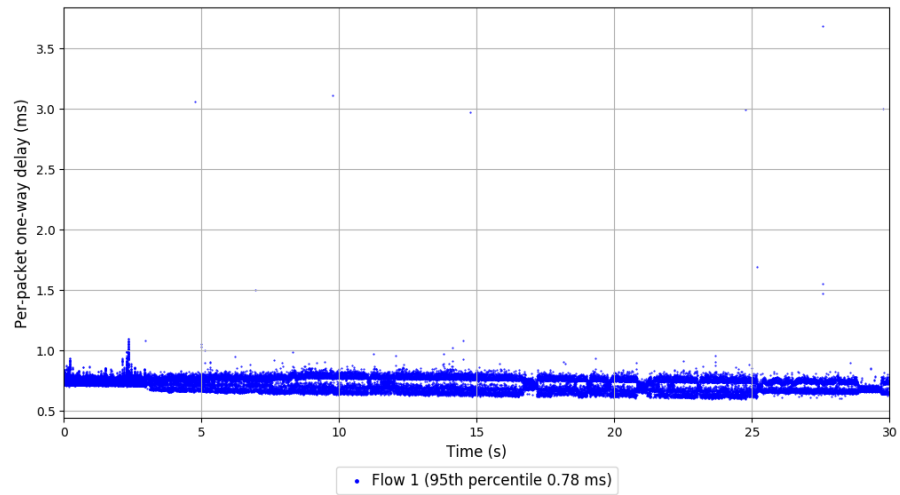
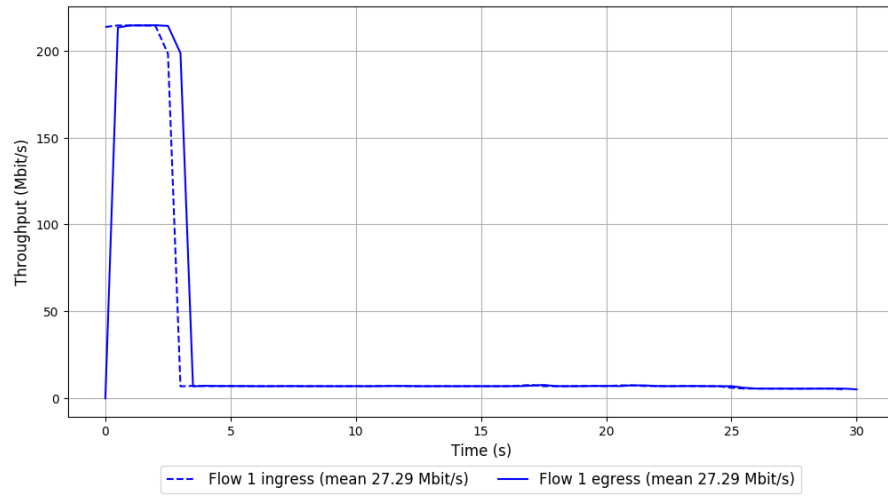
-- Flow 1:

Average throughput: 27.29 Mbit/s

95th percentile per-packet one-way delay: 0.775 ms

Loss rate: 0.00%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-10-03 07:14:59

End at: 2019-10-03 07:15:29

Local clock offset: 4.945 ms

Remote clock offset: 0.521 ms

Below is generated by plot.py at 2019-10-03 10:55:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 450.71 Mbit/s

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

Loss rate: 0.06%

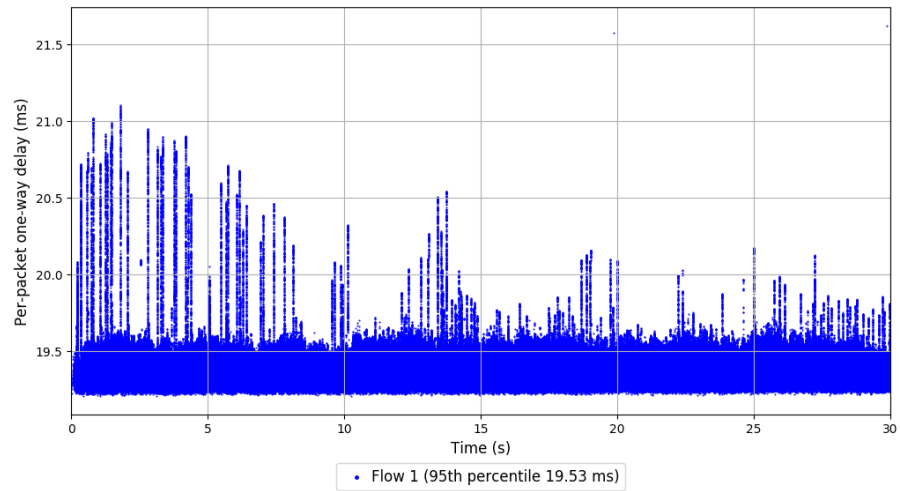
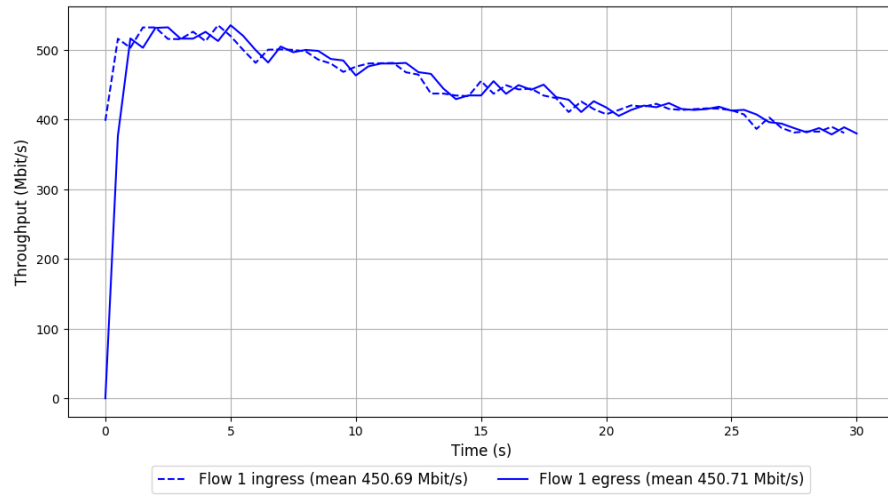
-- Flow 1:

Average throughput: 450.71 Mbit/s

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

Loss rate: 0.06%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-10-03 07:49:08

End at: 2019-10-03 07:49:38

Local clock offset: 5.796 ms

Remote clock offset: 0.636 ms

Below is generated by plot.py at 2019-10-03 10:55:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.39 Mbit/s

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

Loss rate: 0.01%

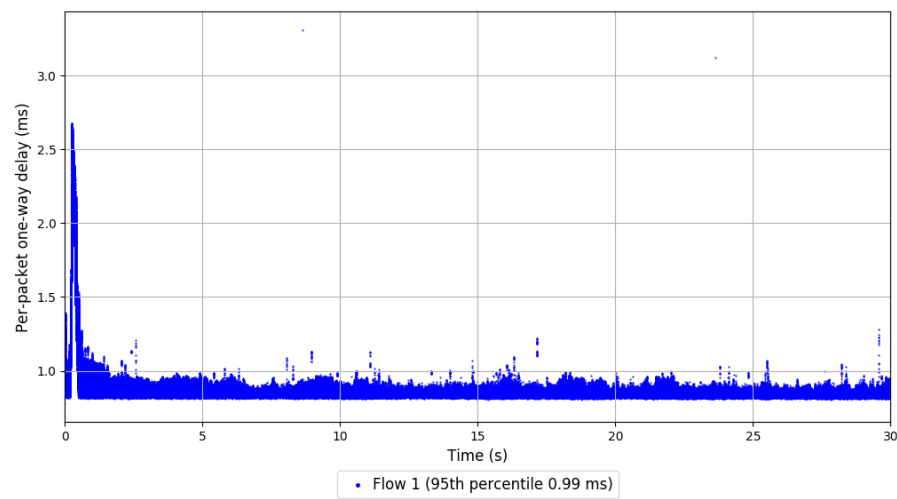
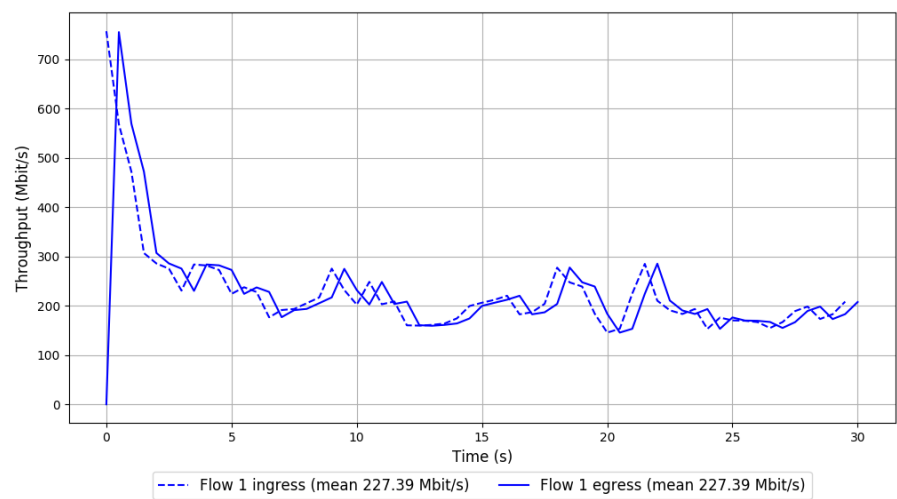
-- Flow 1:

Average throughput: 227.39 Mbit/s

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

Loss rate: 0.01%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-10-03 08:23:34

End at: 2019-10-03 08:24:04

Local clock offset: 6.522 ms

Remote clock offset: 0.329 ms

Below is generated by plot.py at 2019-10-03 10:55:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.10 Mbit/s

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

Loss rate: 0.01%

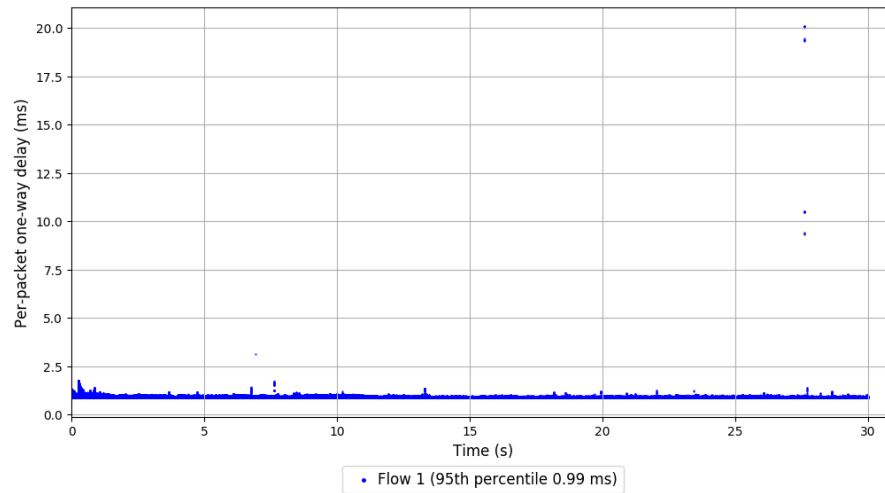
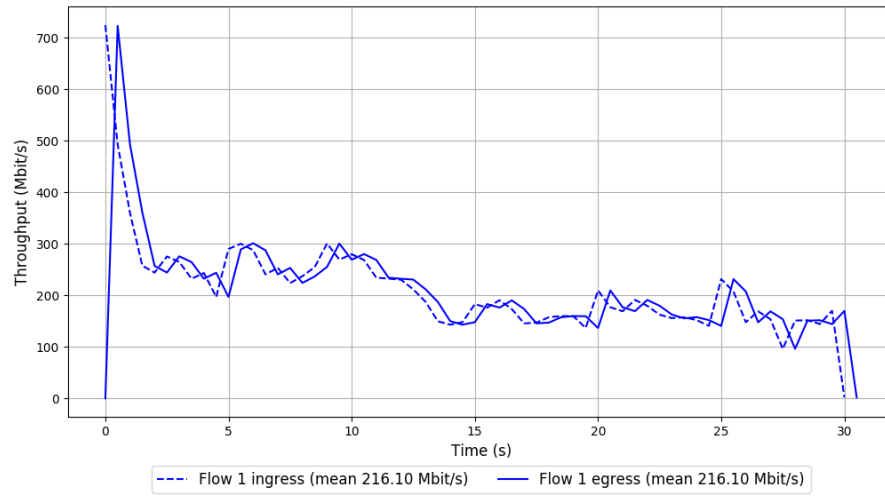
-- Flow 1:

Average throughput: 216.10 Mbit/s

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

Loss rate: 0.01%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-10-03 08:57:13

End at: 2019-10-03 08:57:43

Local clock offset: 3.144 ms

Remote clock offset: 0.084 ms

Below is generated by plot.py at 2019-10-03 10:56:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 472.15 Mbit/s

95th percentile per-packet one-way delay: 19.054 ms

Loss rate: 0.05%

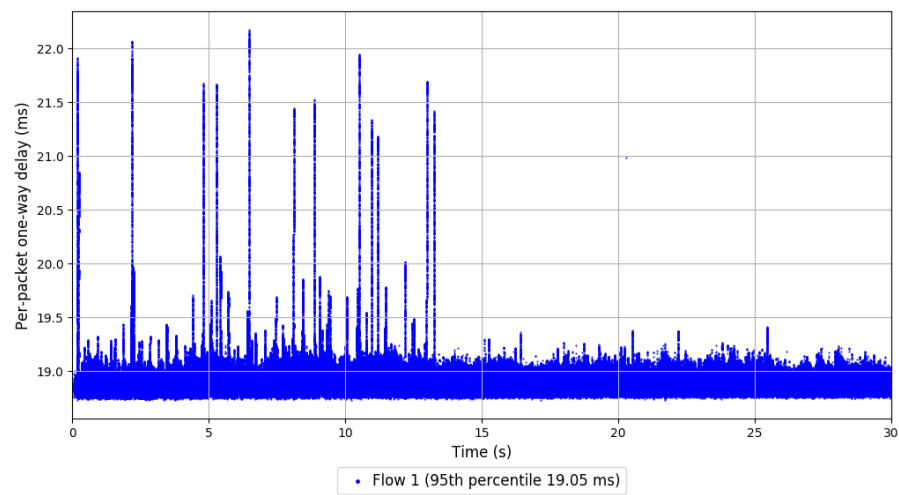
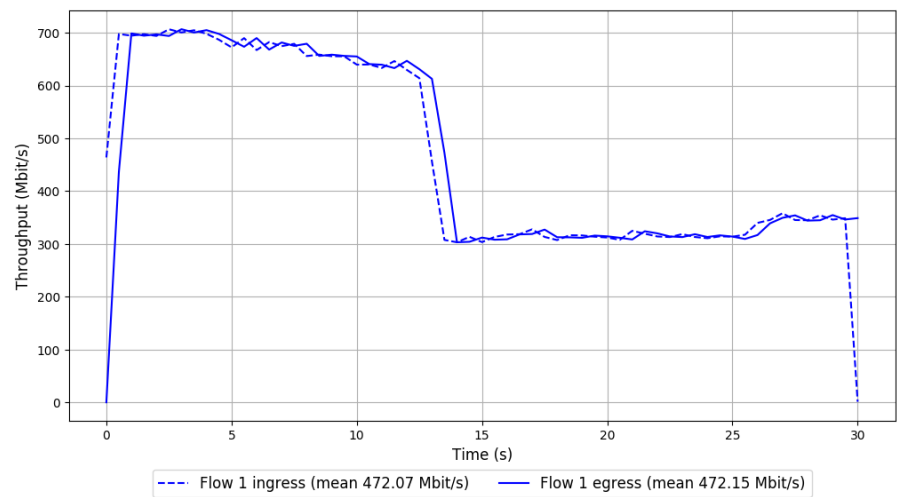
-- Flow 1:

Average throughput: 472.15 Mbit/s

95th percentile per-packet one-way delay: 19.054 ms

Loss rate: 0.05%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-10-03 09:30:55

End at: 2019-10-03 09:31:25

Local clock offset: 3.56 ms

Remote clock offset: 0.092 ms

Below is generated by plot.py at 2019-10-03 10:56:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 314.97 Mbit/s

95th percentile per-packet one-way delay: 19.444 ms

Loss rate: 0.04%

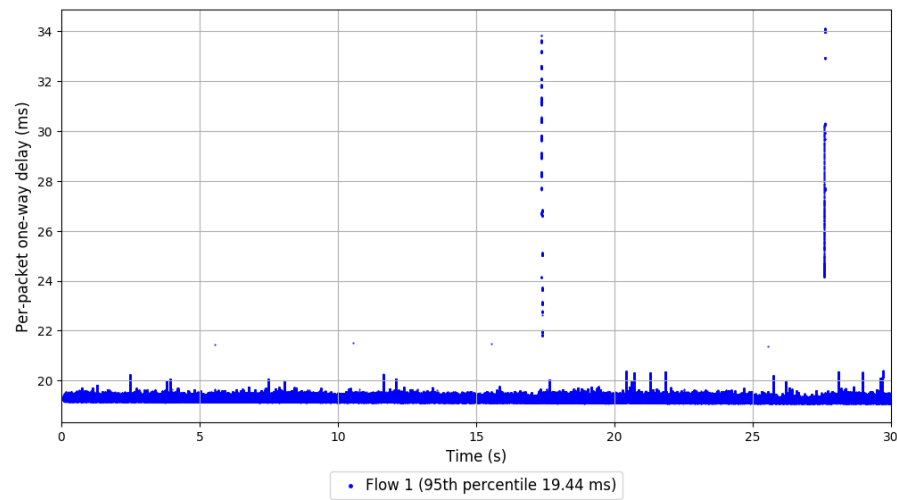
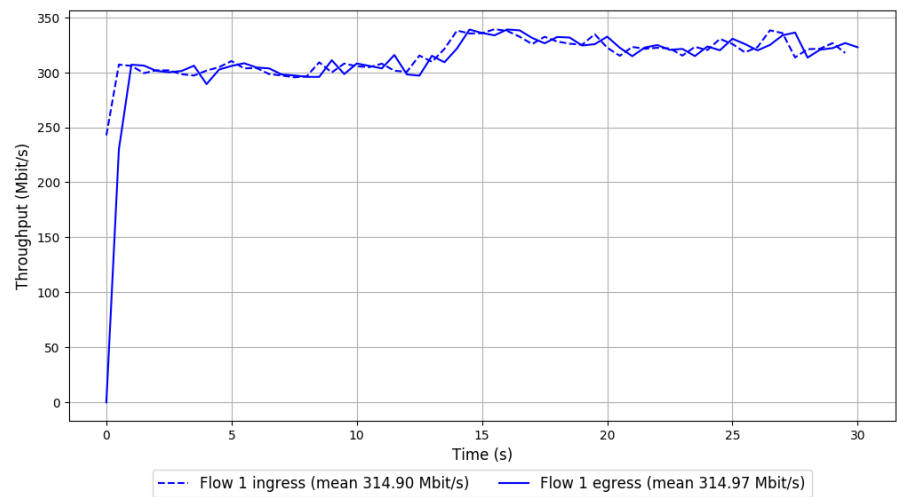
-- Flow 1:

Average throughput: 314.97 Mbit/s

95th percentile per-packet one-way delay: 19.444 ms

Loss rate: 0.04%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-10-03 07:12:01

End at: 2019-10-03 07:12:31

Local clock offset: 4.871 ms

Remote clock offset: 0.535 ms

Below is generated by plot.py at 2019-10-03 10:56:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 331.83 Mbit/s

95th percentile per-packet one-way delay: 2.234 ms

Loss rate: 0.01%

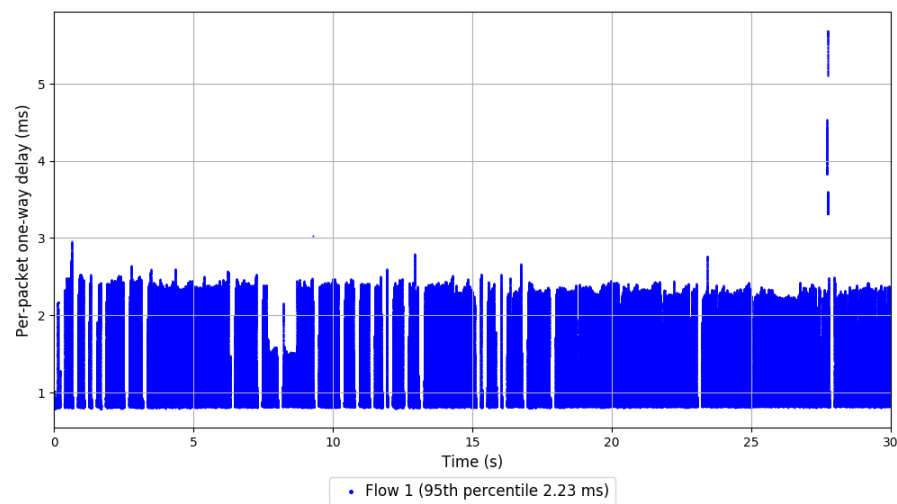
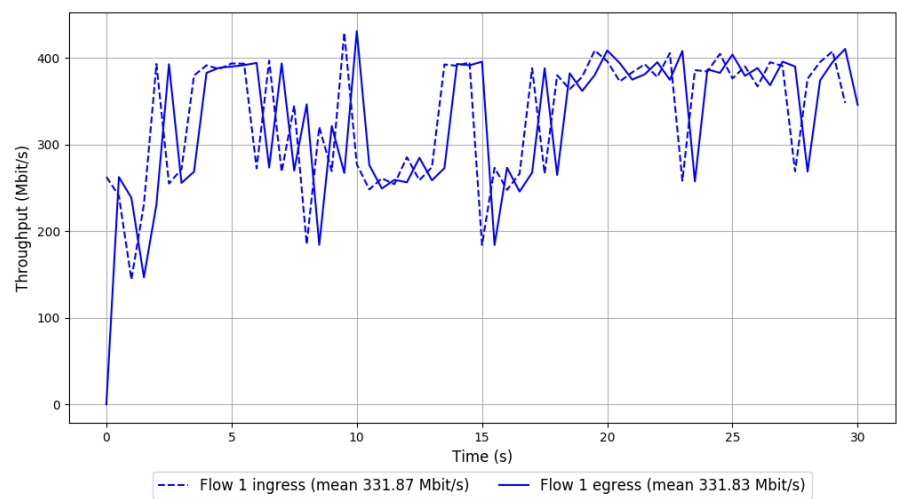
-- Flow 1:

Average throughput: 331.83 Mbit/s

95th percentile per-packet one-way delay: 2.234 ms

Loss rate: 0.01%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-10-03 07:46:10

End at: 2019-10-03 07:46:40

Local clock offset: 5.74 ms

Remote clock offset: 0.608 ms

Below is generated by plot.py at 2019-10-03 10:57:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 359.54 Mbit/s

95th percentile per-packet one-way delay: 26.565 ms

Loss rate: 0.08%

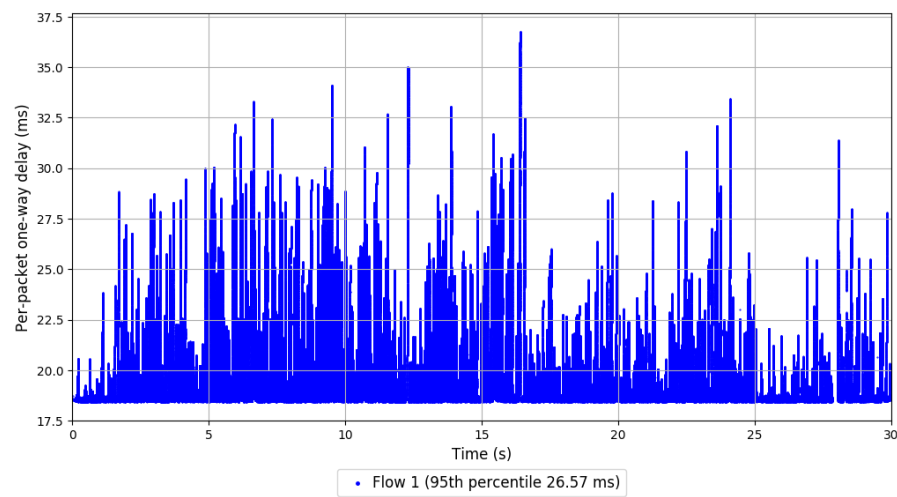
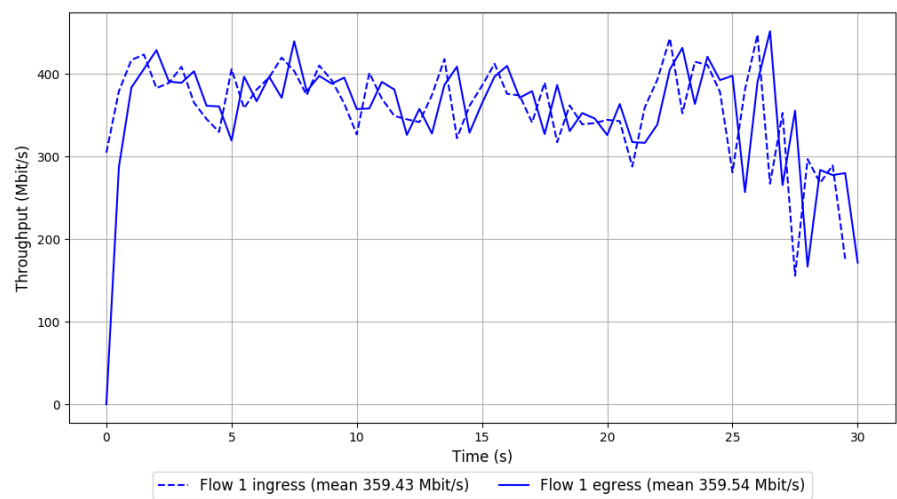
-- Flow 1:

Average throughput: 359.54 Mbit/s

95th percentile per-packet one-way delay: 26.565 ms

Loss rate: 0.08%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-10-03 08:20:51

End at: 2019-10-03 08:21:21

Local clock offset: 6.43 ms

Remote clock offset: 0.26 ms

Below is generated by plot.py at 2019-10-03 10:58:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 351.96 Mbit/s

95th percentile per-packet one-way delay: 24.168 ms

Loss rate: 0.07%

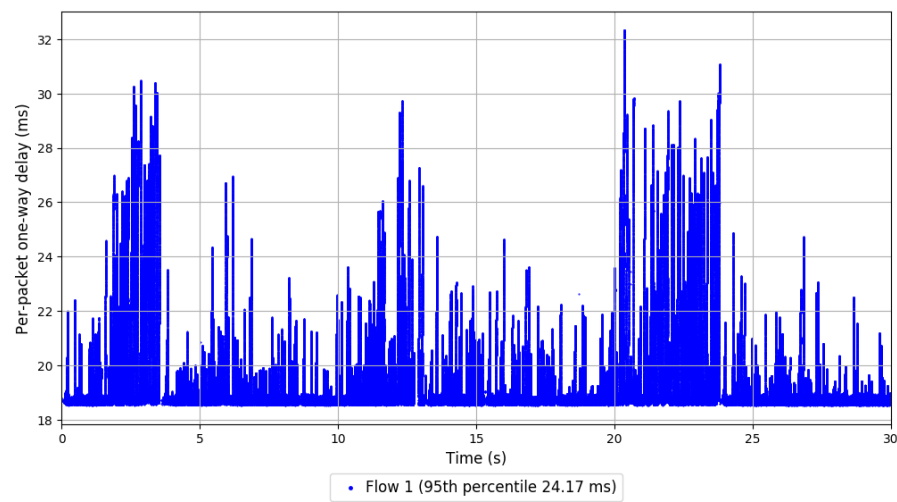
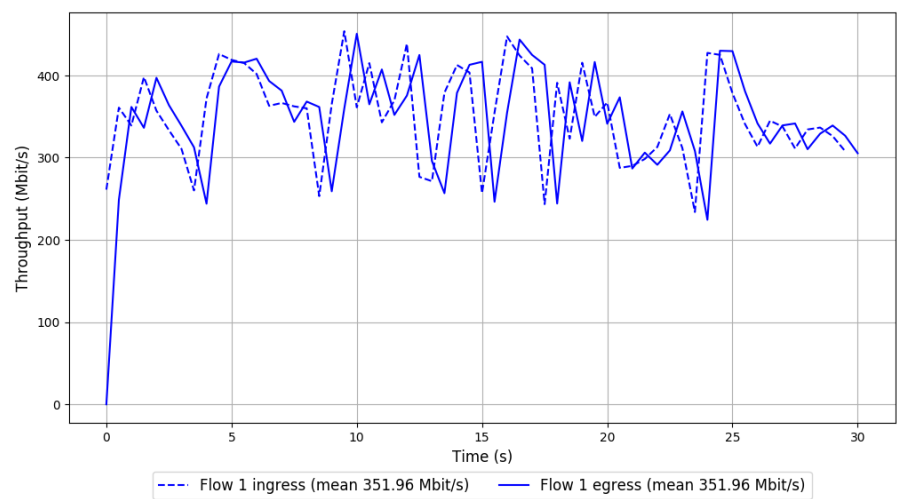
-- Flow 1:

Average throughput: 351.96 Mbit/s

95th percentile per-packet one-way delay: 24.168 ms

Loss rate: 0.07%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-10-03 08:54:17

End at: 2019-10-03 08:54:47

Local clock offset: 3.235 ms

Remote clock offset: 0.088 ms

Below is generated by plot.py at 2019-10-03 10:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 297.22 Mbit/s

95th percentile per-packet one-way delay: 2.576 ms

Loss rate: 0.01%

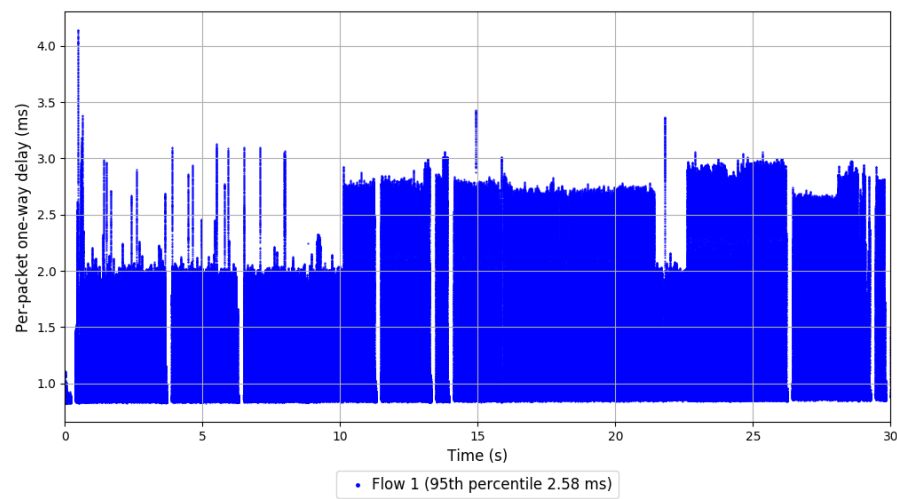
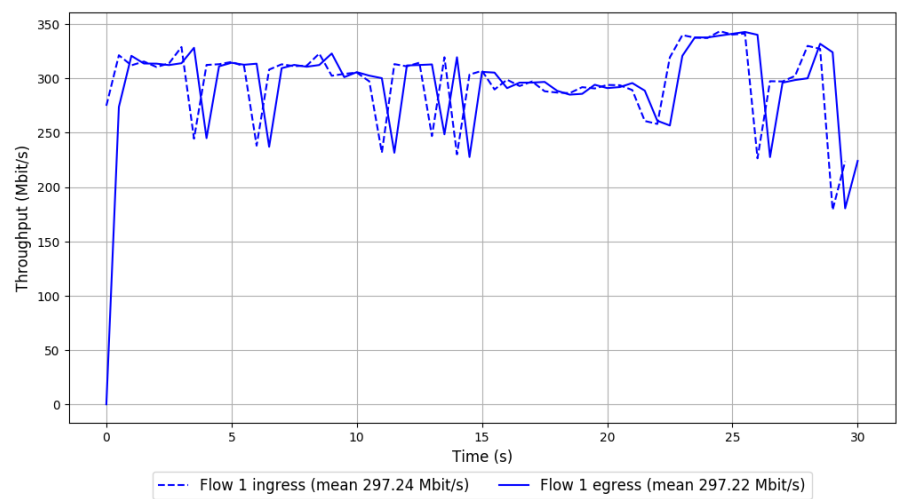
-- Flow 1:

Average throughput: 297.22 Mbit/s

95th percentile per-packet one-way delay: 2.576 ms

Loss rate: 0.01%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-10-03 09:28:13

End at: 2019-10-03 09:28:43

Local clock offset: 3.104 ms

Remote clock offset: 0.153 ms

Below is generated by plot.py at 2019-10-03 10:59:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 321.33 Mbit/s

95th percentile per-packet one-way delay: 28.790 ms

Loss rate: 0.07%

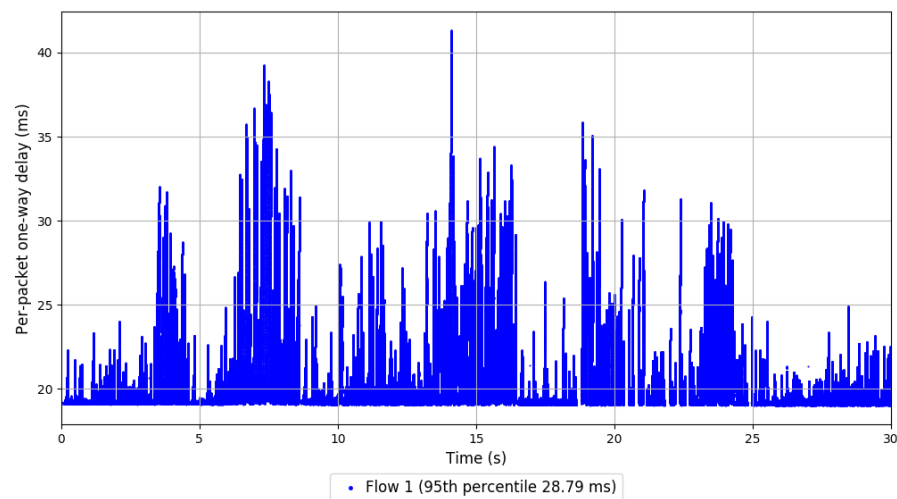
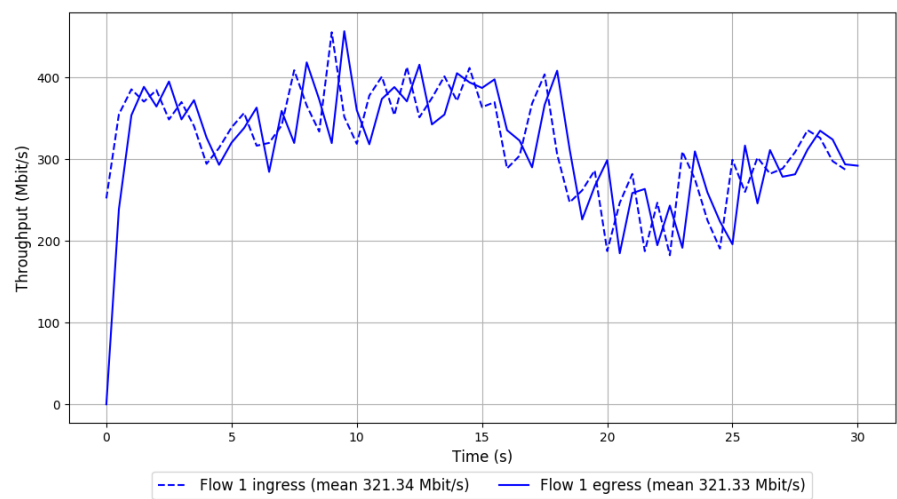
-- Flow 1:

Average throughput: 321.33 Mbit/s

95th percentile per-packet one-way delay: 28.790 ms

Loss rate: 0.07%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-10-03 07:27:43

End at: 2019-10-03 07:28:13

Local clock offset: 5.244 ms

Remote clock offset: 0.351 ms

Below is generated by plot.py at 2019-10-03 10:59:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.15 Mbit/s

95th percentile per-packet one-way delay: 0.881 ms

Loss rate: 0.00%

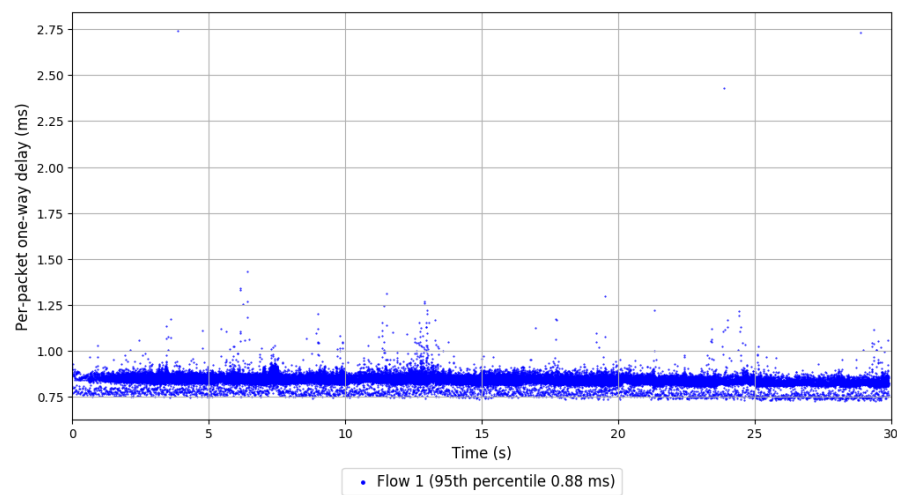
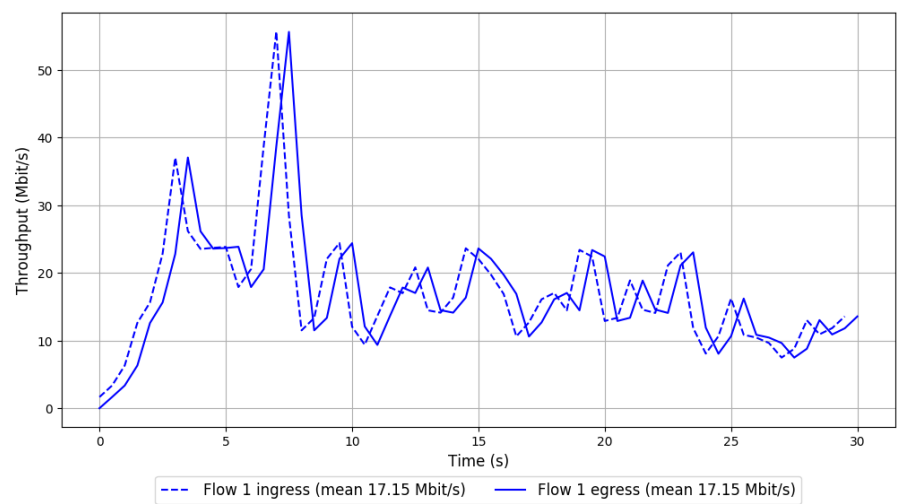
-- Flow 1:

Average throughput: 17.15 Mbit/s

95th percentile per-packet one-way delay: 0.881 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-10-03 08:01:54

End at: 2019-10-03 08:02:24

Local clock offset: 6.094 ms

Remote clock offset: 0.284 ms

Below is generated by plot.py at 2019-10-03 10:59:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 384.75 Mbit/s

95th percentile per-packet one-way delay: 19.391 ms

Loss rate: 0.07%

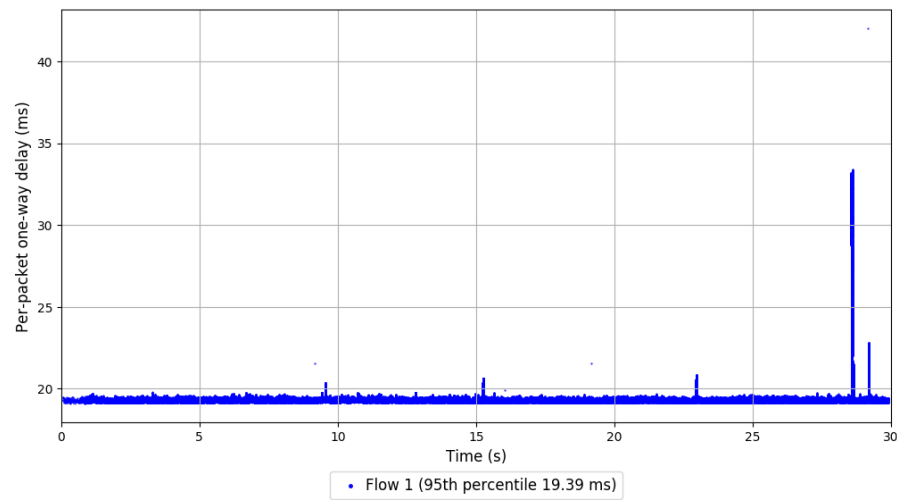
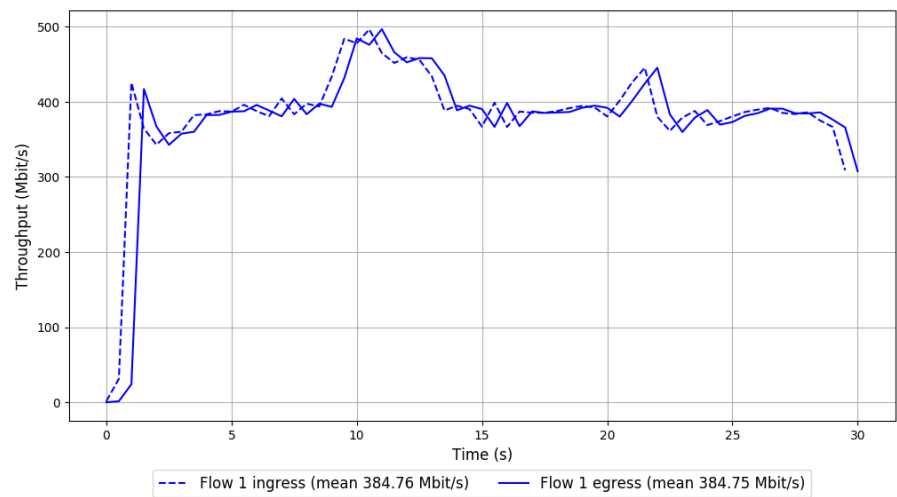
-- Flow 1:

Average throughput: 384.75 Mbit/s

95th percentile per-packet one-way delay: 19.391 ms

Loss rate: 0.07%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-10-03 08:36:12

End at: 2019-10-03 08:36:42

Local clock offset: 4.333 ms

Remote clock offset: 0.019 ms

Below is generated by plot.py at 2019-10-03 10:59:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 381.67 Mbit/s

95th percentile per-packet one-way delay: 19.194 ms

Loss rate: 0.06%

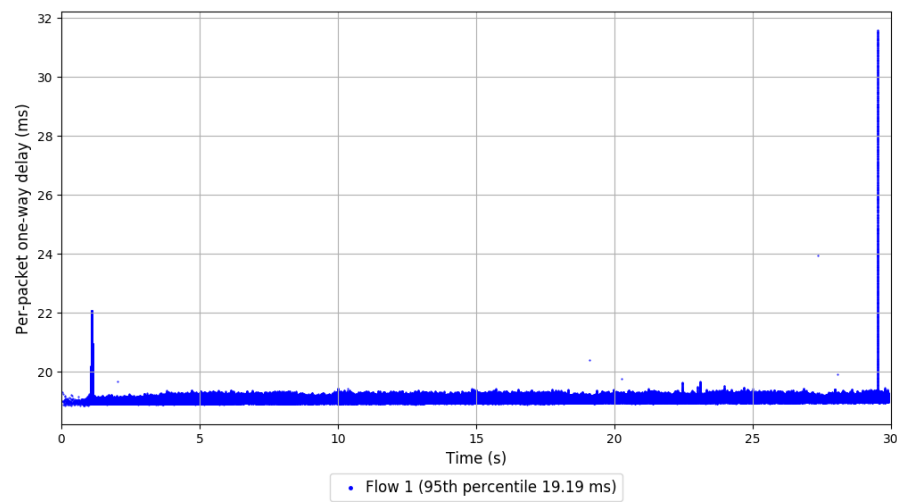
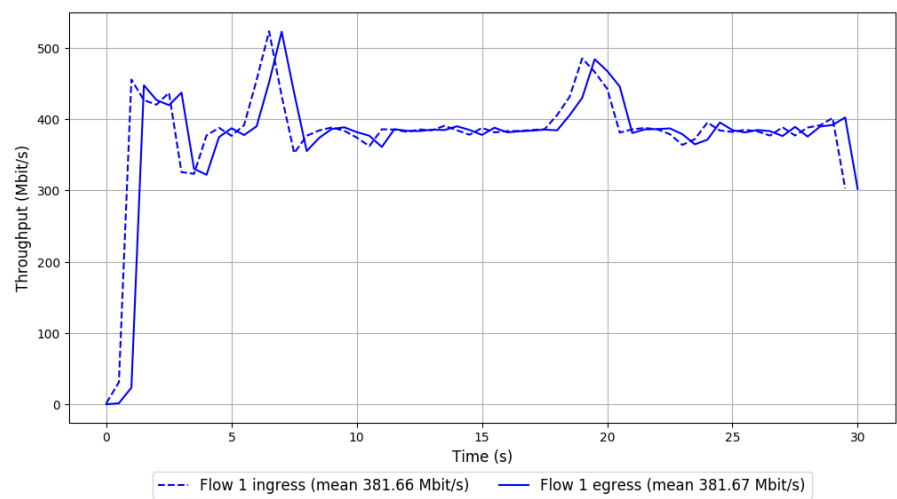
-- Flow 1:

Average throughput: 381.67 Mbit/s

95th percentile per-packet one-way delay: 19.194 ms

Loss rate: 0.06%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-10-03 09:10:07

End at: 2019-10-03 09:10:37

Local clock offset: 2.712 ms

Remote clock offset: -0.01 ms

Below is generated by plot.py at 2019-10-03 10:59:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 287.19 Mbit/s

95th percentile per-packet one-way delay: 1.009 ms

Loss rate: 0.01%

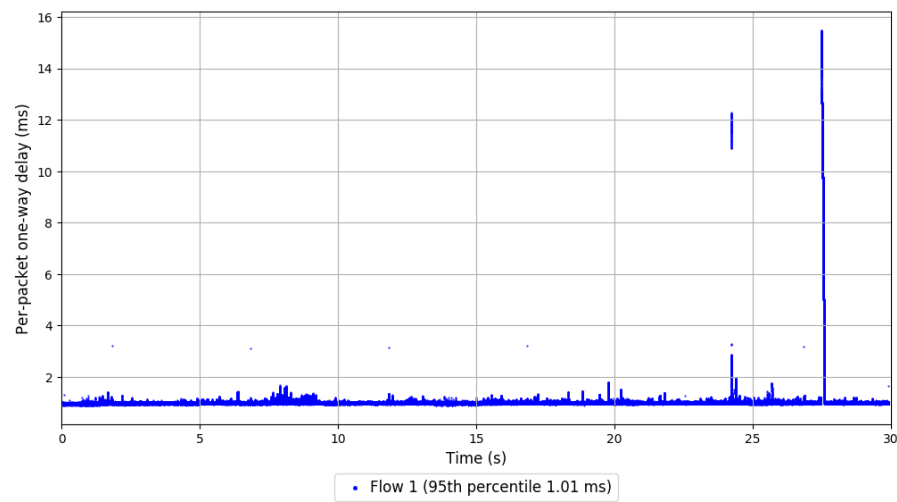
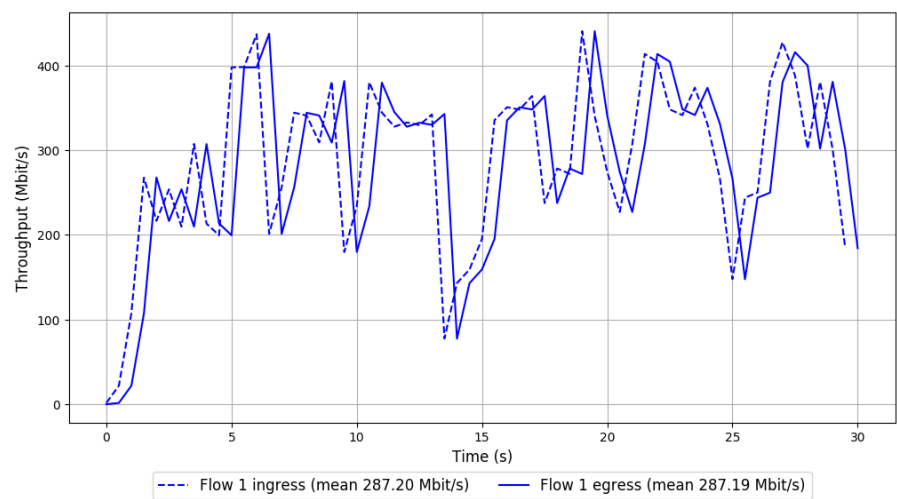
-- Flow 1:

Average throughput: 287.19 Mbit/s

95th percentile per-packet one-way delay: 1.009 ms

Loss rate: 0.01%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-10-03 09:43:35

End at: 2019-10-03 09:44:05

Local clock offset: 4.624 ms

Remote clock offset: 0.019 ms

Below is generated by plot.py at 2019-10-03 10:59:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 333.06 Mbit/s

95th percentile per-packet one-way delay: 0.945 ms

Loss rate: 0.01%

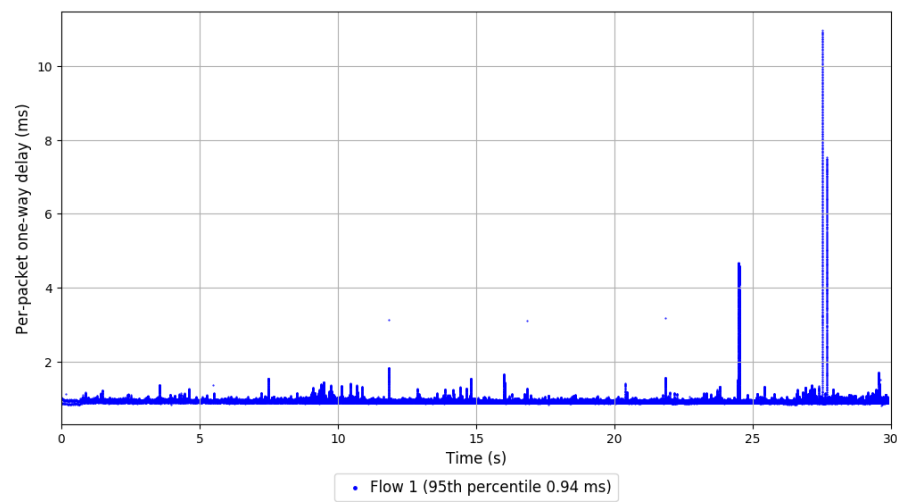
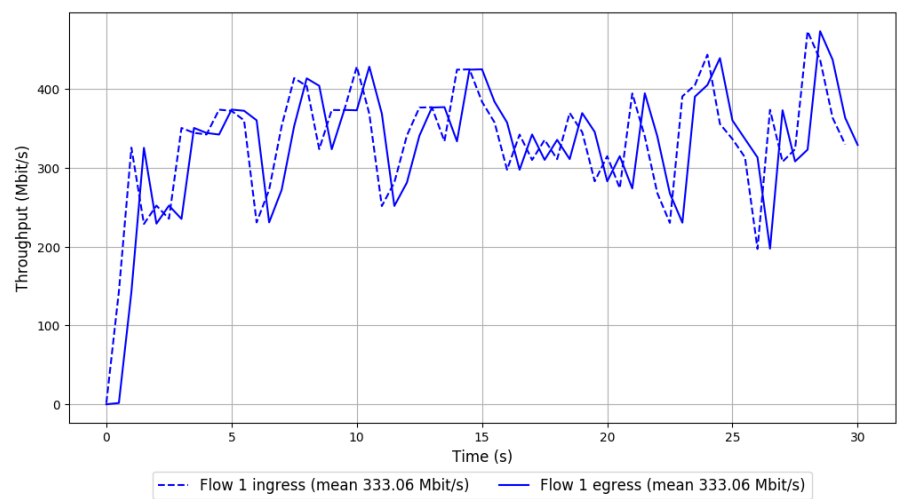
-- Flow 1:

Average throughput: 333.06 Mbit/s

95th percentile per-packet one-way delay: 0.945 ms

Loss rate: 0.01%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-10-03 07:04:55

End at: 2019-10-03 07:05:25

Local clock offset: 4.67 ms

Remote clock offset: 0.195 ms

Below is generated by plot.py at 2019-10-03 10:59:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

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

Loss rate: 0.05%

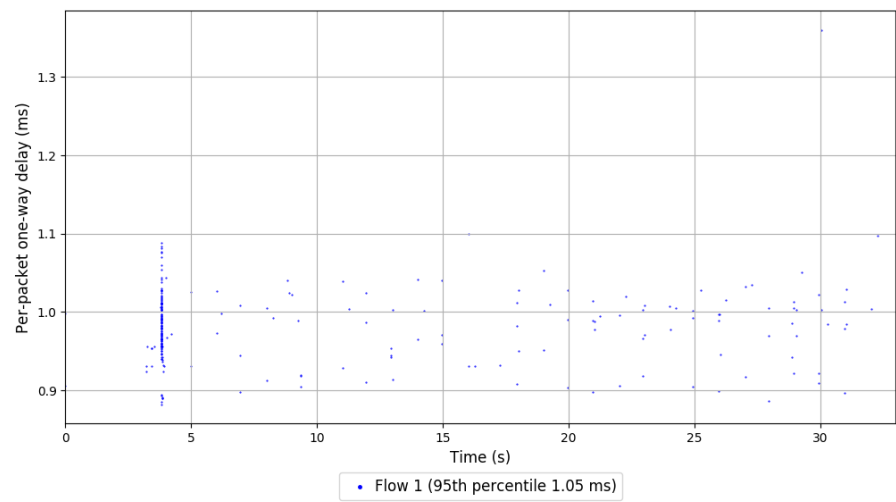
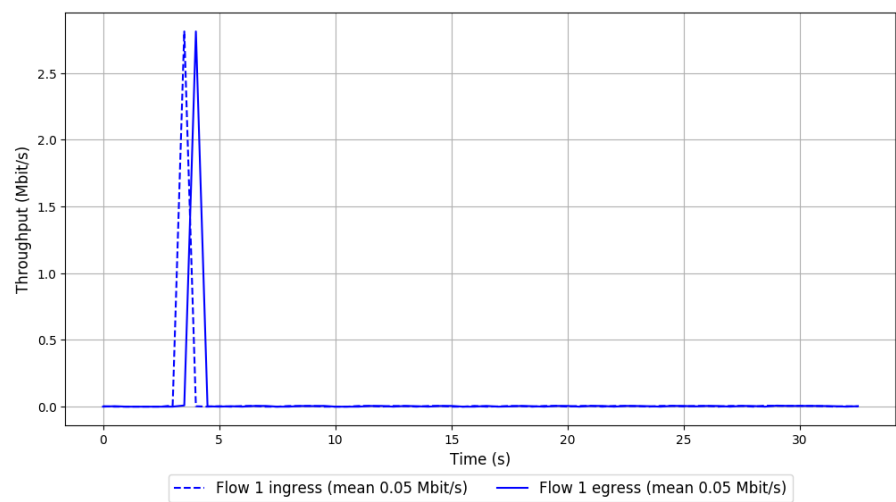
-- Flow 1:

Average throughput: 0.05 Mbit/s

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

Loss rate: 0.05%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-10-03 07:39:07

End at: 2019-10-03 07:39:37

Local clock offset: 5.586 ms

Remote clock offset: 0.445 ms

Below is generated by plot.py at 2019-10-03 10:59:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 19.400 ms

Loss rate: 0.00%

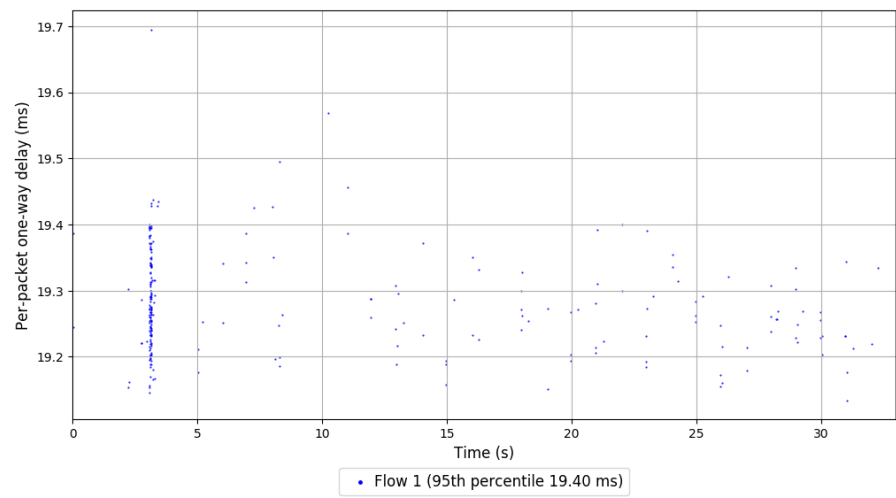
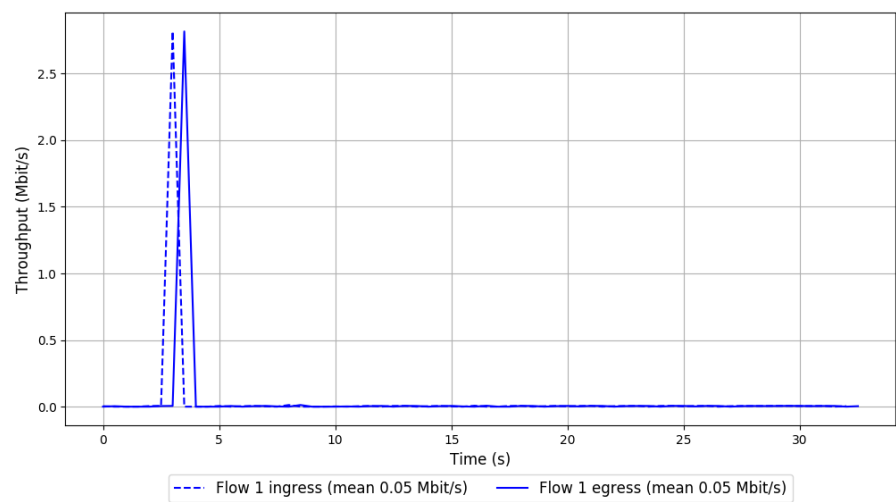
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 19.400 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-10-03 08:13:45

End at: 2019-10-03 08:14:15

Local clock offset: 6.299 ms

Remote clock offset: 0.185 ms

Below is generated by plot.py at 2019-10-03 10:59:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

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

Loss rate: 0.00%

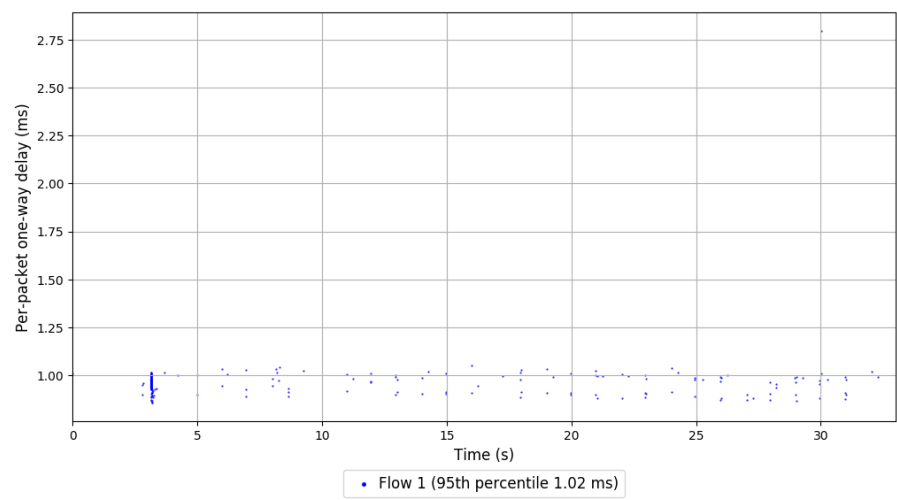
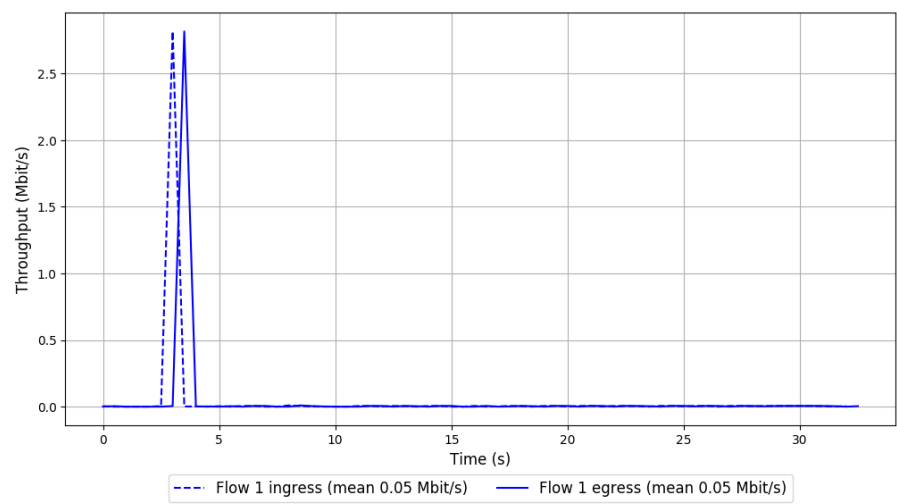
-- Flow 1:

Average throughput: 0.05 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-10-03 08:47:42

End at: 2019-10-03 08:48:12

Local clock offset: 3.504 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2019-10-03 10:59:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

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

Loss rate: 0.00%

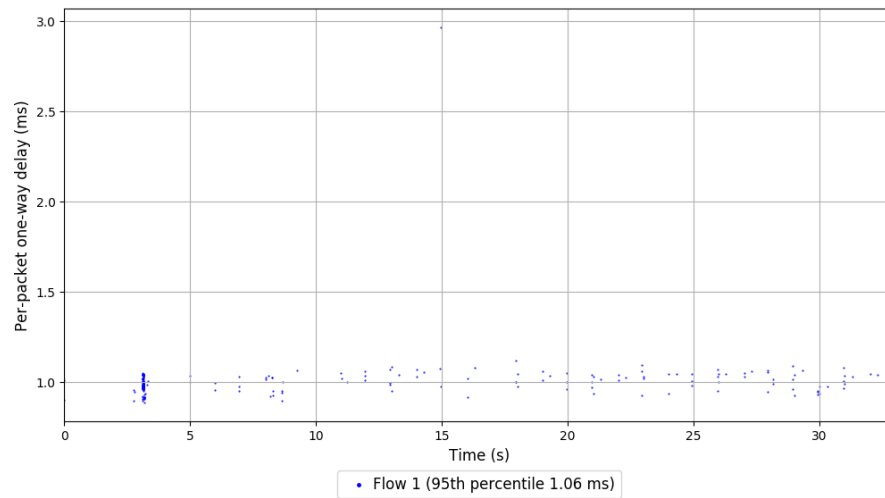
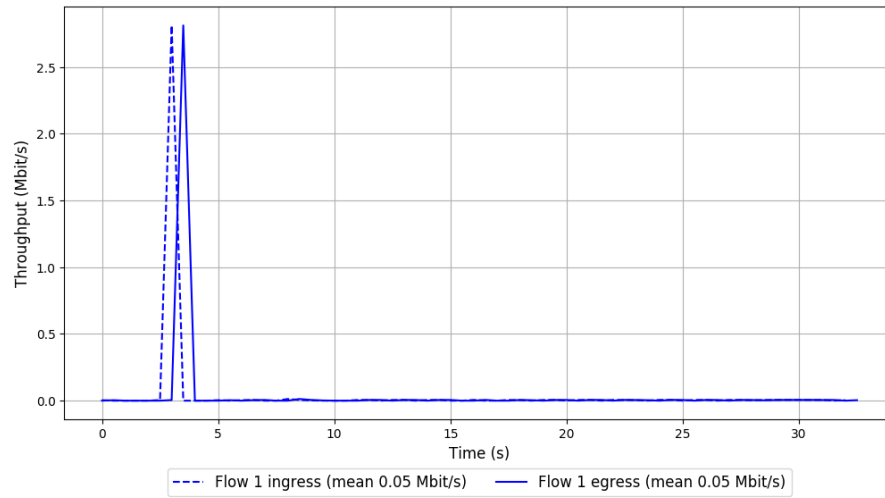
-- Flow 1:

Average throughput: 0.05 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-10-03 09:21:37

End at: 2019-10-03 09:22:07

Local clock offset: 2.378 ms

Remote clock offset: 0.149 ms

Below is generated by plot.py at 2019-10-03 10:59:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 19.114 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 19.114 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

