

Pantheon Report

Generated at 2019-08-27 08:03:01 (UTC).

Data path: Brazil on **p4p1** (*remote*) → AWS Brazil 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 **gps.ntp.br** and have been applied to correct the timestamps in logs.

System info:

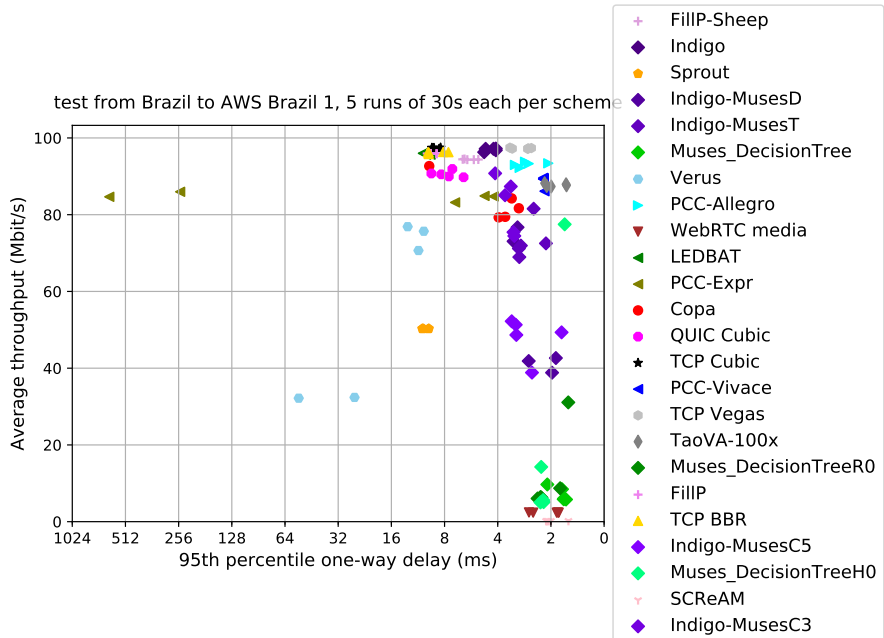
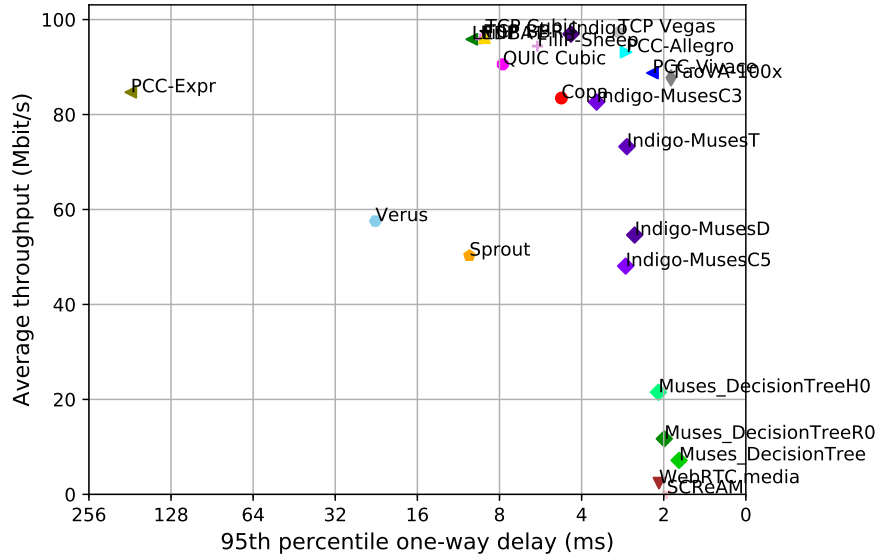
```
Linux 4.15.0-1043-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

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 Brazil to AWS Brazil 1, 5 runs of 30s each per scheme
(mean of all runs by 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	96.19	9.07	0.12
Copa	5	83.47	4.74	0.02
TCP Cubic	5	97.28	9.00	0.06
FillP	5	95.92	9.39	0.03
FillP-Sheep	5	94.40	5.81	0.02
Indigo	5	96.93	4.38	0.02
Indigo-MusesC3	5	82.62	3.53	0.02
Indigo-MusesC5	5	48.08	2.76	0.01
Indigo-MusesD	5	54.62	2.56	0.01
Indigo-MusesT	5	73.23	2.73	0.02
LEDBAT	5	95.85	10.11	0.08
Muses_DecisionTree	5	7.17	1.63	0.02
Muses_DecisionTreeH0	5	21.50	2.09	0.02
Muses_DecisionTreeR0	5	11.71	1.99	0.01
PCC-Allegro	5	93.13	2.75	0.02
PCC-Expr	5	84.69	179.85	0.38
QUIC Cubic	5	90.58	7.78	0.02
SCReAM	5	0.22	1.93	0.00
Sprout	5	50.28	10.32	0.04
TaoVA-100x	5	87.72	1.82	0.02
TCP Vegas	5	97.30	2.94	0.01
Verus	5	57.56	22.81	0.04
PCC-Vivace	5	88.75	2.20	0.02
WebRTC media	5	2.36	2.08	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-08-27 05:33:08

End at: 2019-08-27 05:33:38

Local clock offset: 0.347 ms

Remote clock offset: -0.168 ms

Below is generated by plot.py at 2019-08-27 07:50:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.35 Mbit/s

95th percentile per-packet one-way delay: 8.135 ms

Loss rate: 0.03%

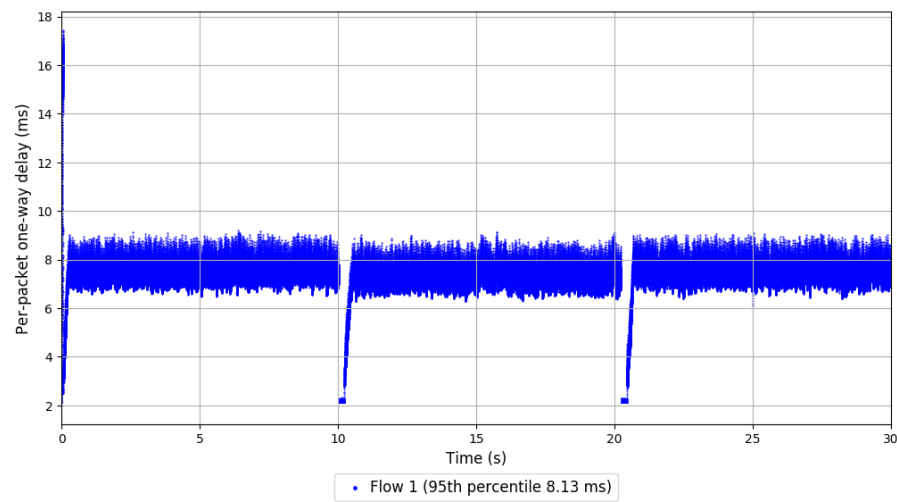
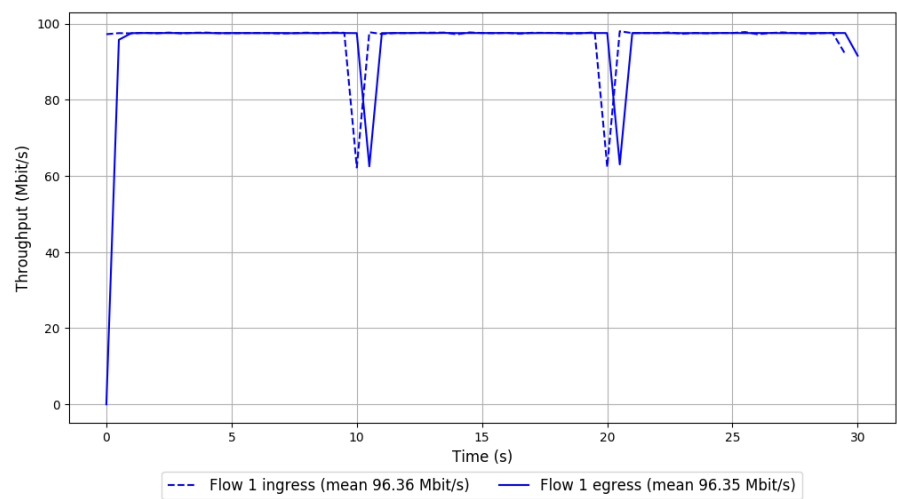
-- Flow 1:

Average throughput: 96.35 Mbit/s

95th percentile per-packet one-way delay: 8.135 ms

Loss rate: 0.03%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-08-27 06:00:06

End at: 2019-08-27 06:00:36

Local clock offset: -0.461 ms

Remote clock offset: 0.275 ms

Below is generated by plot.py at 2019-08-27 07:50:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.30 Mbit/s

95th percentile per-packet one-way delay: 7.606 ms

Loss rate: 0.03%

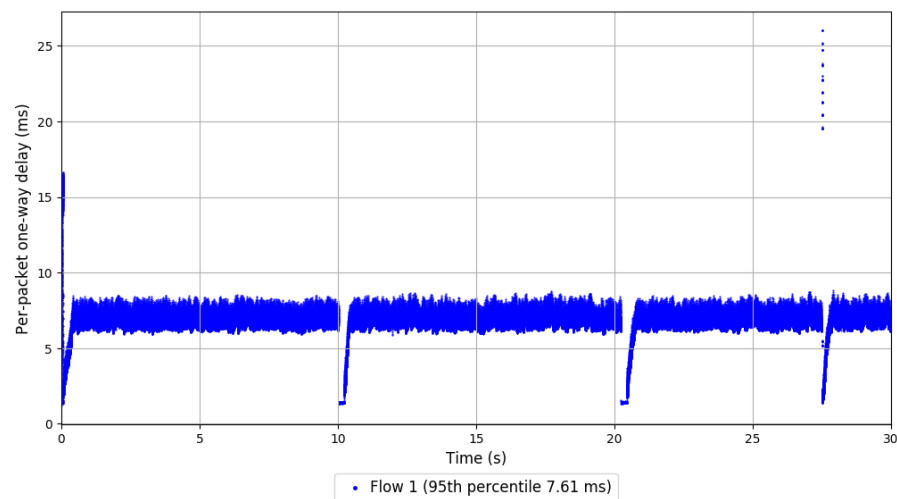
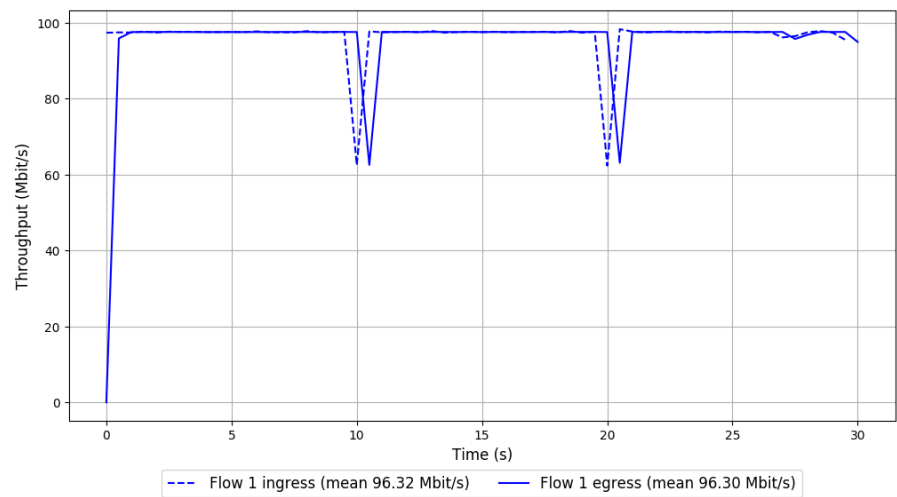
-- Flow 1:

Average throughput: 96.30 Mbit/s

95th percentile per-packet one-way delay: 7.606 ms

Loss rate: 0.03%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-08-27 06:27:00

End at: 2019-08-27 06:27:30

Local clock offset: 0.346 ms

Remote clock offset: 0.665 ms

Below is generated by plot.py at 2019-08-27 07:50:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 9.846 ms

Loss rate: 0.17%

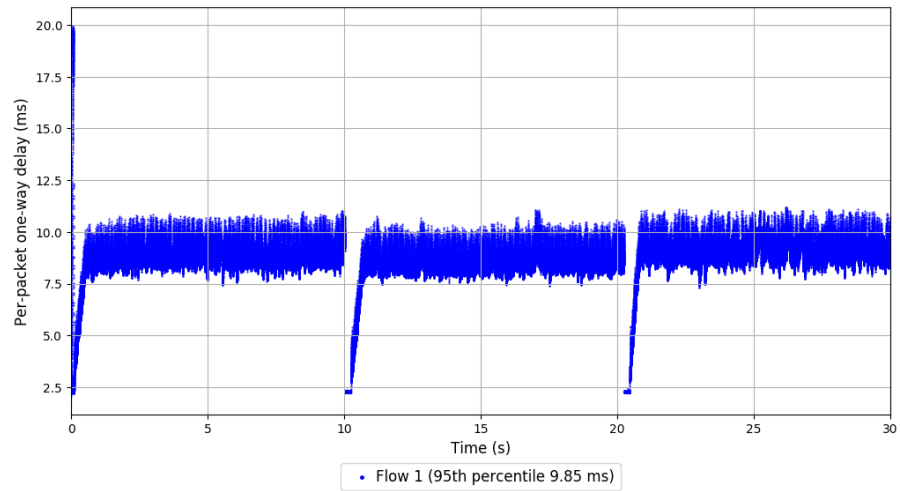
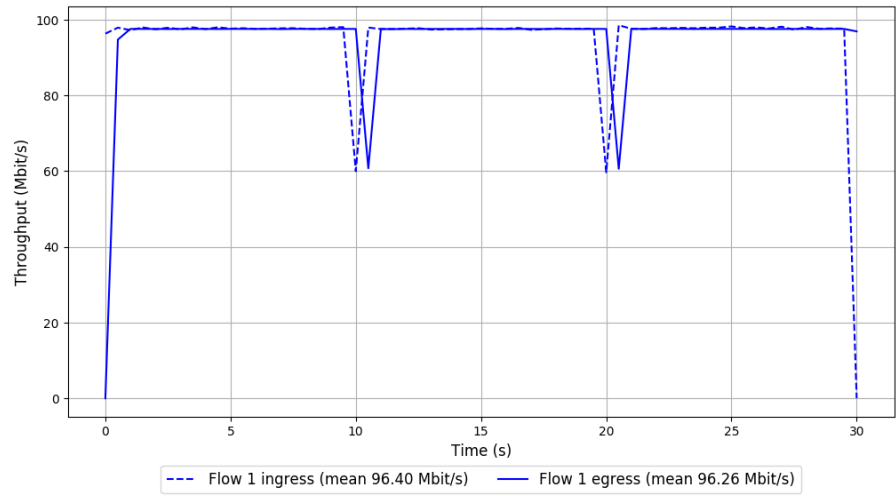
-- Flow 1:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 9.846 ms

Loss rate: 0.17%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-08-27 06:53:58

End at: 2019-08-27 06:54:28

Local clock offset: 0.283 ms

Remote clock offset: 0.83 ms

Below is generated by plot.py at 2019-08-27 07:50:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.23 Mbit/s

95th percentile per-packet one-way delay: 9.933 ms

Loss rate: 0.20%

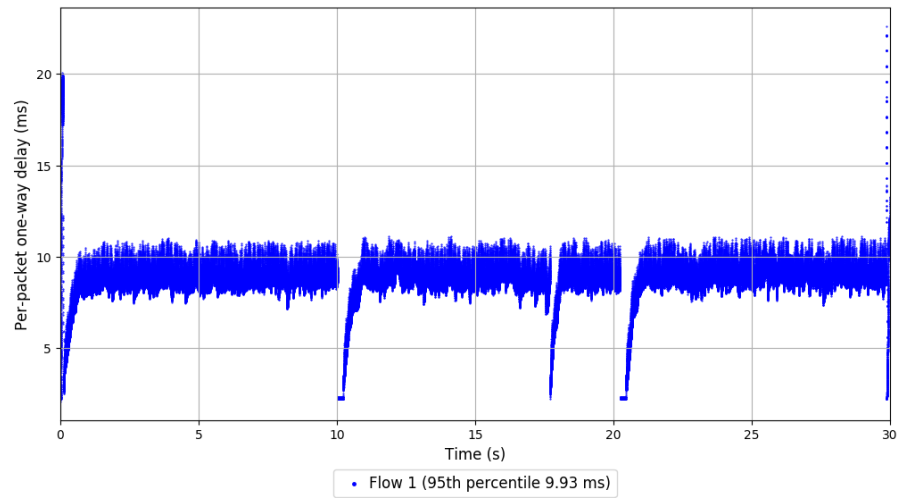
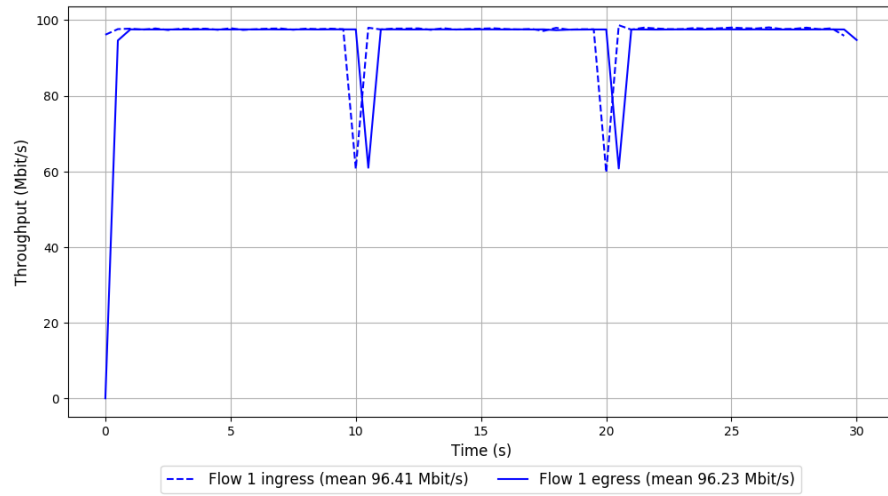
-- Flow 1:

Average throughput: 96.23 Mbit/s

95th percentile per-packet one-way delay: 9.933 ms

Loss rate: 0.20%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-08-27 07:20:56

End at: 2019-08-27 07:21:26

Local clock offset: 0.256 ms

Remote clock offset: 0.849 ms

Below is generated by plot.py at 2019-08-27 07:50:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.81 Mbit/s

95th percentile per-packet one-way delay: 9.835 ms

Loss rate: 0.18%

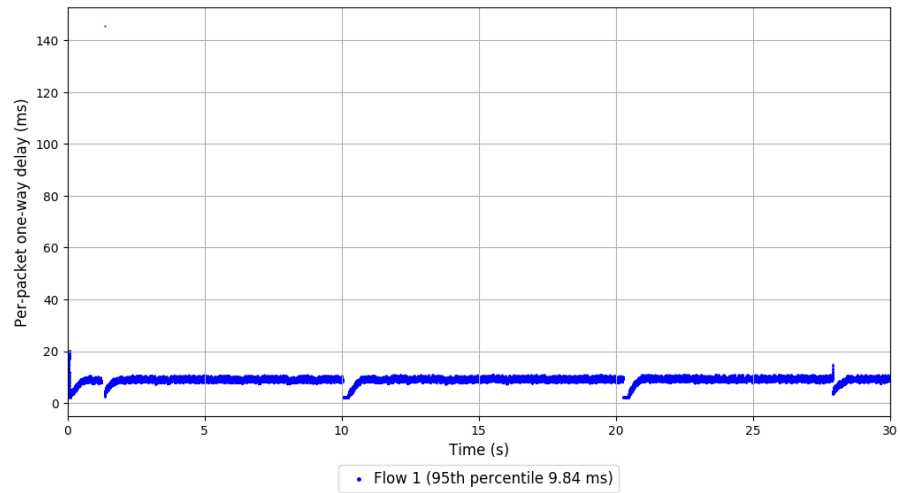
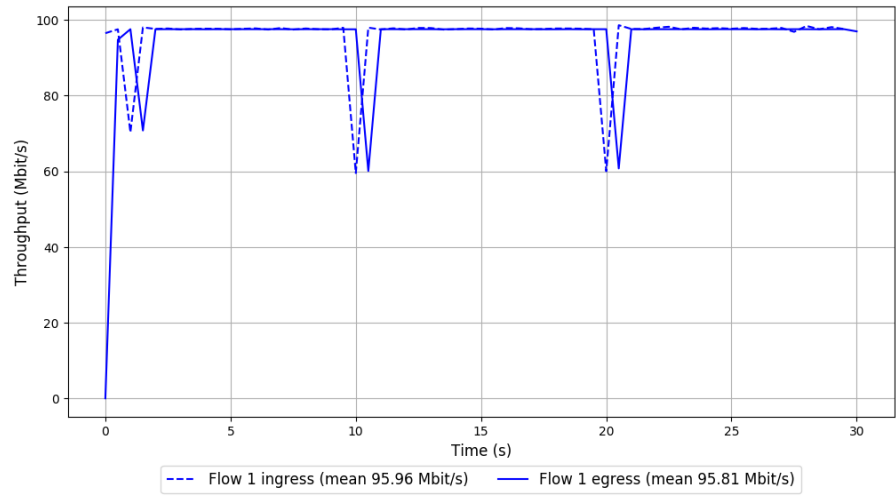
-- Flow 1:

Average throughput: 95.81 Mbit/s

95th percentile per-packet one-way delay: 9.835 ms

Loss rate: 0.18%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-08-27 05:35:24

End at: 2019-08-27 05:35:55

Local clock offset: 0.359 ms

Remote clock offset: -0.142 ms

Below is generated by plot.py at 2019-08-27 07:50:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.30 Mbit/s

95th percentile per-packet one-way delay: 3.952 ms

Loss rate: 0.01%

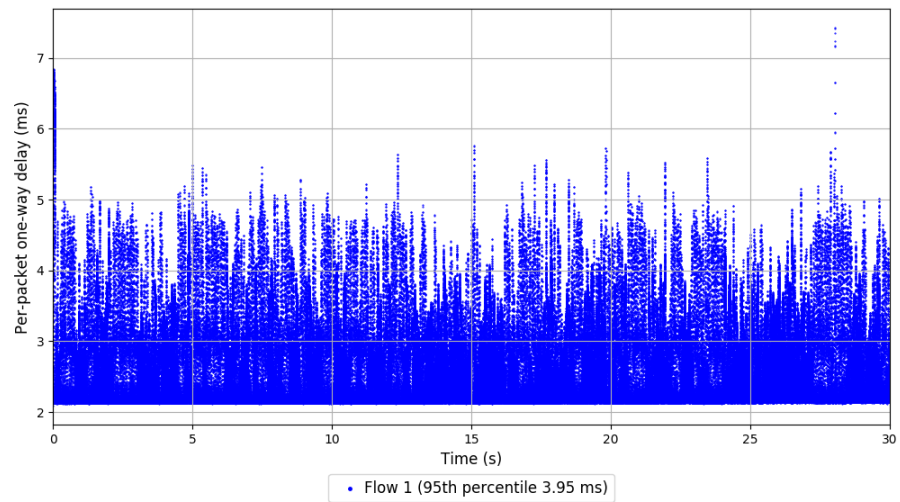
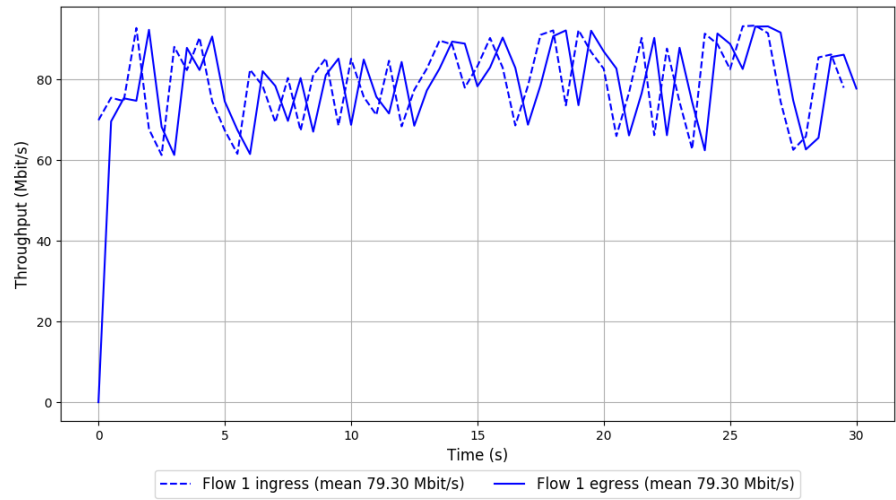
-- Flow 1:

Average throughput: 79.30 Mbit/s

95th percentile per-packet one-way delay: 3.952 ms

Loss rate: 0.01%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-08-27 06:02:22

End at: 2019-08-27 06:02:52

Local clock offset: 0.309 ms

Remote clock offset: 0.293 ms

Below is generated by plot.py at 2019-08-27 07:50:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.44 Mbit/s

95th percentile per-packet one-way delay: 3.631 ms

Loss rate: 0.02%

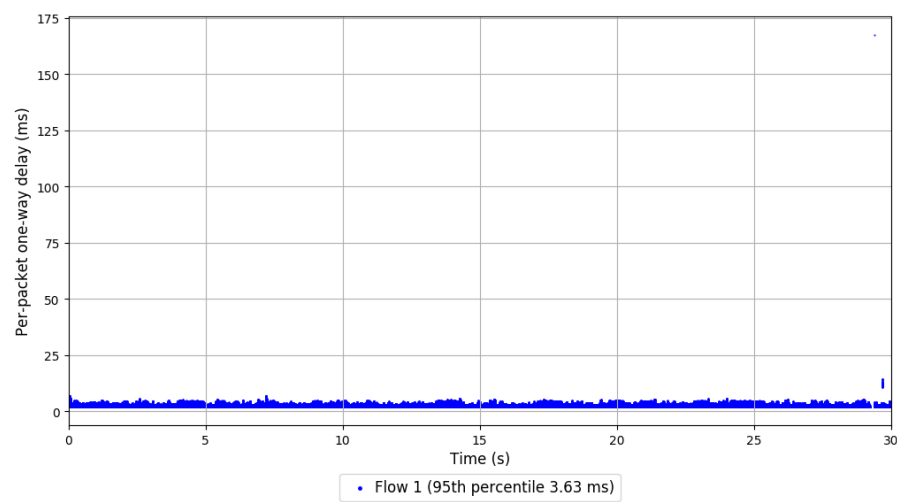
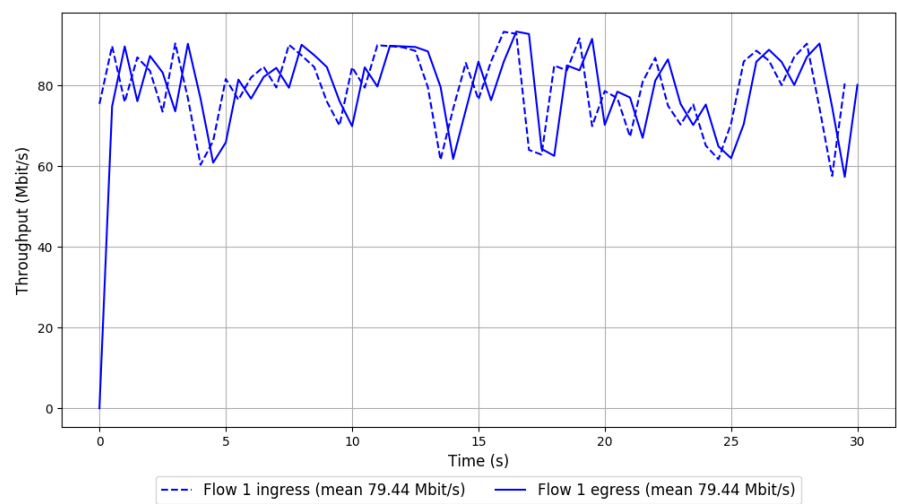
-- Flow 1:

Average throughput: 79.44 Mbit/s

95th percentile per-packet one-way delay: 3.631 ms

Loss rate: 0.02%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-08-27 06:29:16

End at: 2019-08-27 06:29:46

Local clock offset: 0.338 ms

Remote clock offset: 0.744 ms

Below is generated by plot.py at 2019-08-27 07:50:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.24 Mbit/s

95th percentile per-packet one-way delay: 3.335 ms

Loss rate: 0.01%

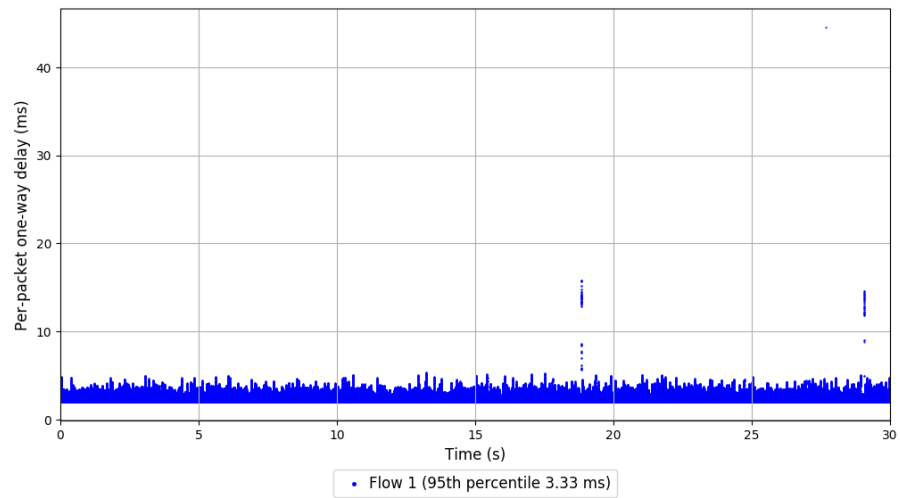
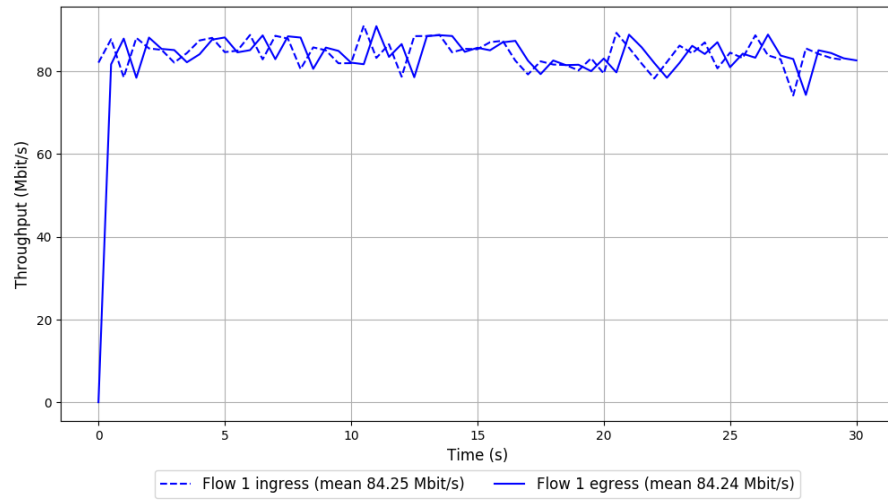
-- Flow 1:

Average throughput: 84.24 Mbit/s

95th percentile per-packet one-way delay: 3.335 ms

Loss rate: 0.01%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-08-27 06:56:14

End at: 2019-08-27 06:56:44

Local clock offset: 0.23 ms

Remote clock offset: 0.916 ms

Below is generated by plot.py at 2019-08-27 07:52:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.67 Mbit/s

95th percentile per-packet one-way delay: 9.766 ms

Loss rate: 0.03%

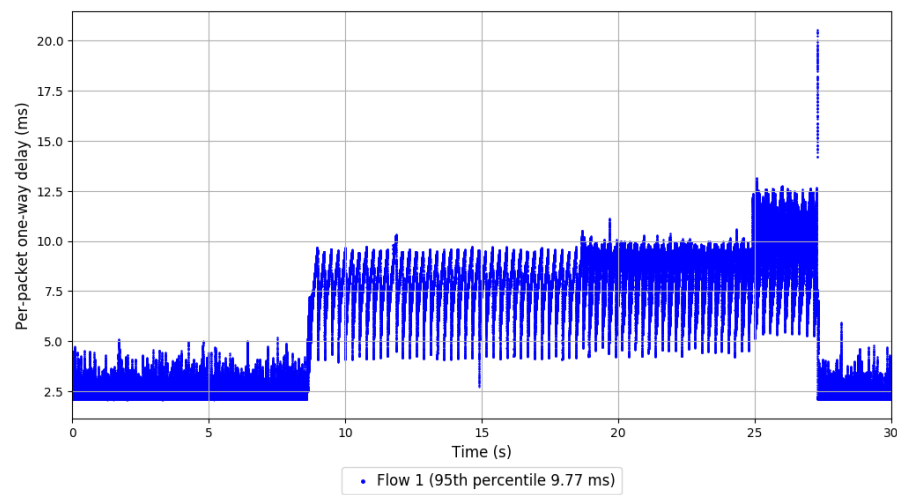
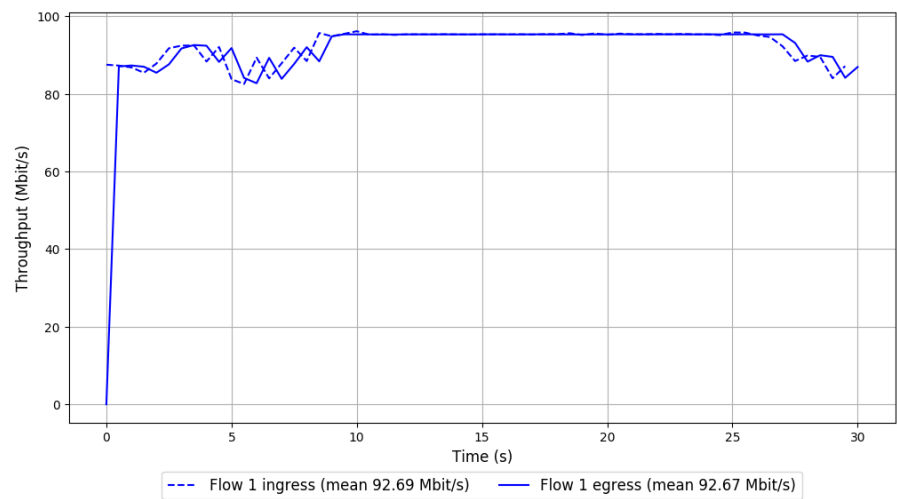
-- Flow 1:

Average throughput: 92.67 Mbit/s

95th percentile per-packet one-way delay: 9.766 ms

Loss rate: 0.03%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-08-27 07:23:12

End at: 2019-08-27 07:23:42

Local clock offset: -0.518 ms

Remote clock offset: 0.874 ms

Below is generated by plot.py at 2019-08-27 07:52:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.68 Mbit/s

95th percentile per-packet one-way delay: 3.038 ms

Loss rate: 0.02%

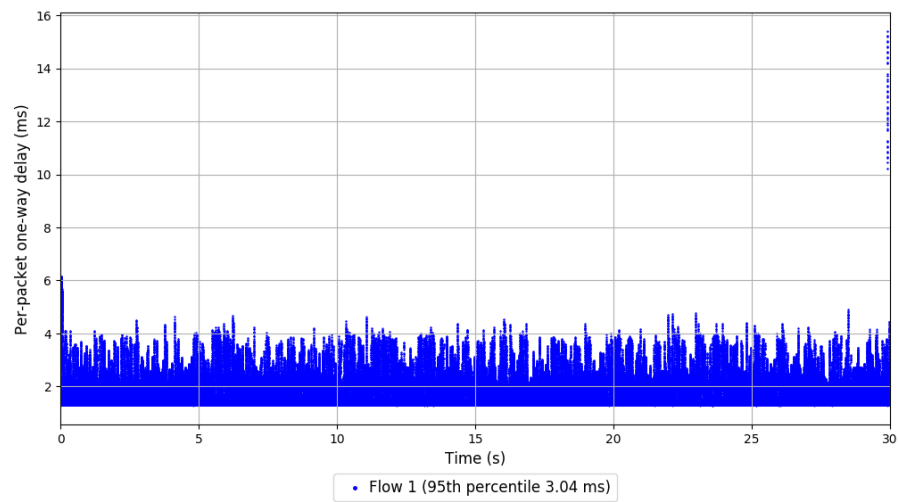
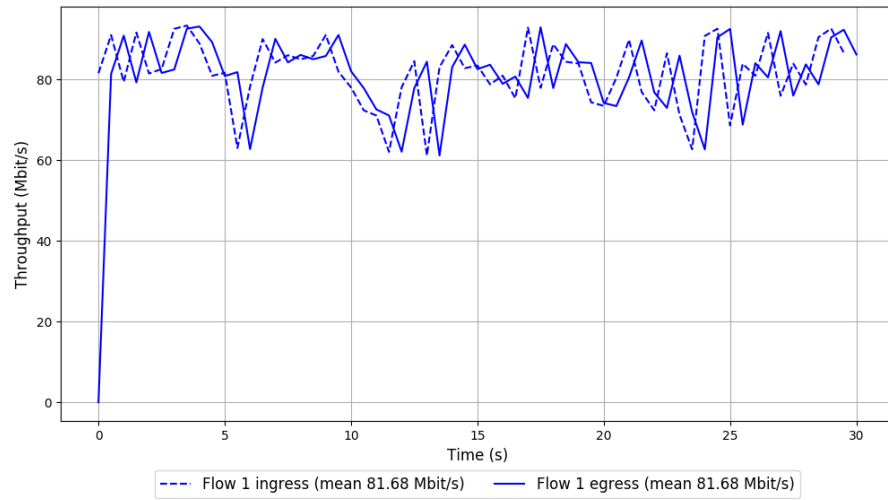
-- Flow 1:

Average throughput: 81.68 Mbit/s

95th percentile per-packet one-way delay: 3.038 ms

Loss rate: 0.02%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-08-27 05:57:52

End at: 2019-08-27 05:58:22

Local clock offset: 0.401 ms

Remote clock offset: 0.185 ms

Below is generated by plot.py at 2019-08-27 07:52:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.39 Mbit/s

95th percentile per-packet one-way delay: 9.188 ms

Loss rate: 0.06%

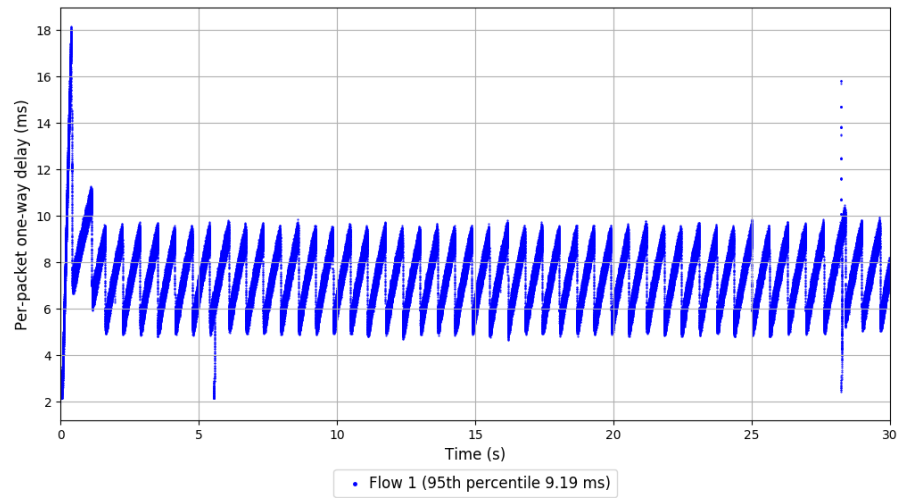
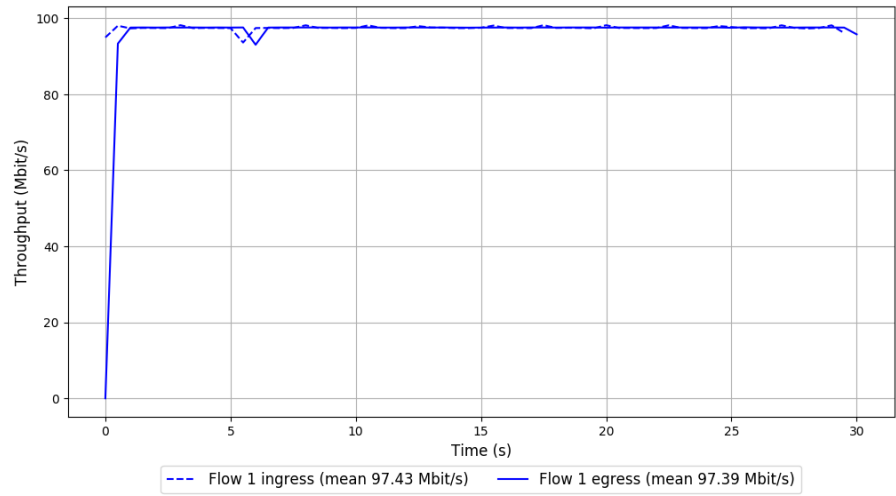
-- Flow 1:

Average throughput: 97.39 Mbit/s

95th percentile per-packet one-way delay: 9.188 ms

Loss rate: 0.06%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-08-27 06:24:46

End at: 2019-08-27 06:25:16

Local clock offset: -0.505 ms

Remote clock offset: 0.665 ms

Below is generated by plot.py at 2019-08-27 07:52:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.13 Mbit/s

95th percentile per-packet one-way delay: 8.591 ms

Loss rate: 0.06%

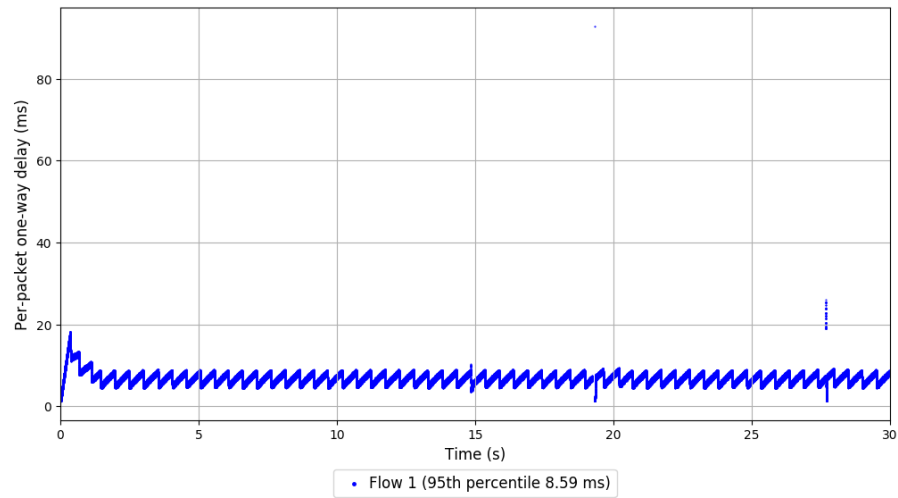
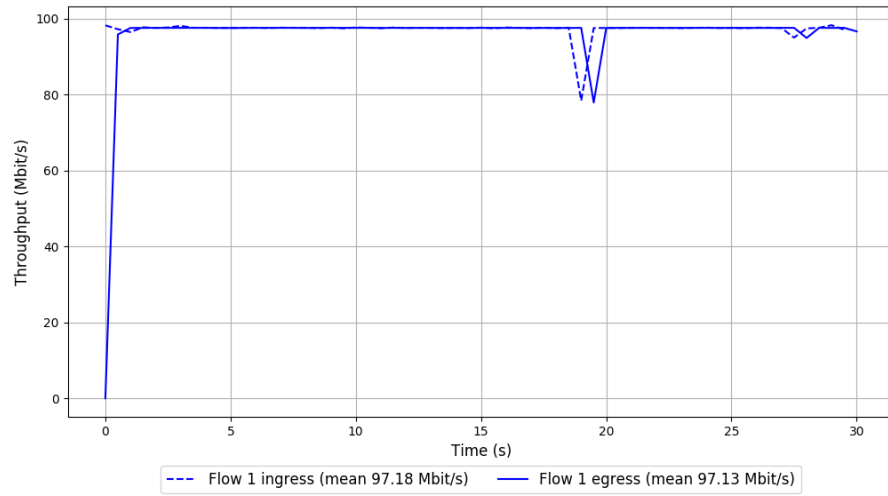
-- Flow 1:

Average throughput: 97.13 Mbit/s

95th percentile per-packet one-way delay: 8.591 ms

Loss rate: 0.06%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2019-08-27 06:51:43

End at: 2019-08-27 06:52:13

Local clock offset: -0.483 ms

Remote clock offset: 0.917 ms

Below is generated by plot.py at 2019-08-27 07:52:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 8.427 ms

Loss rate: 0.05%

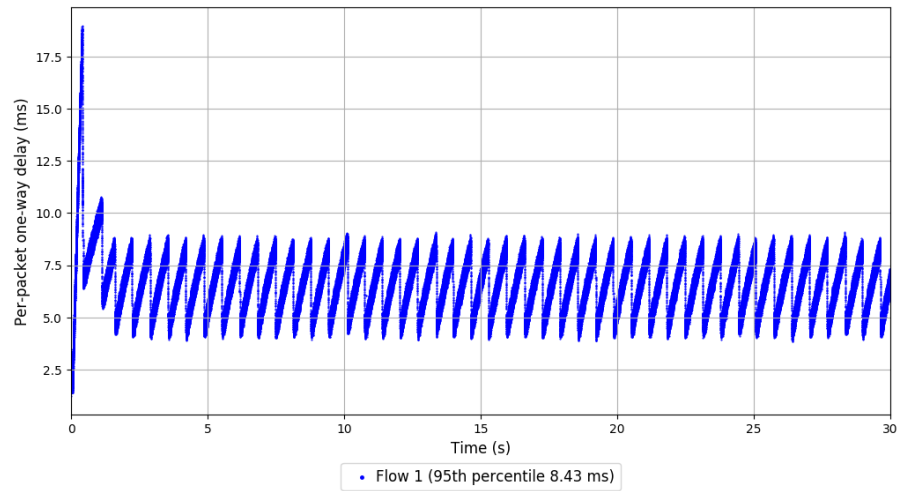
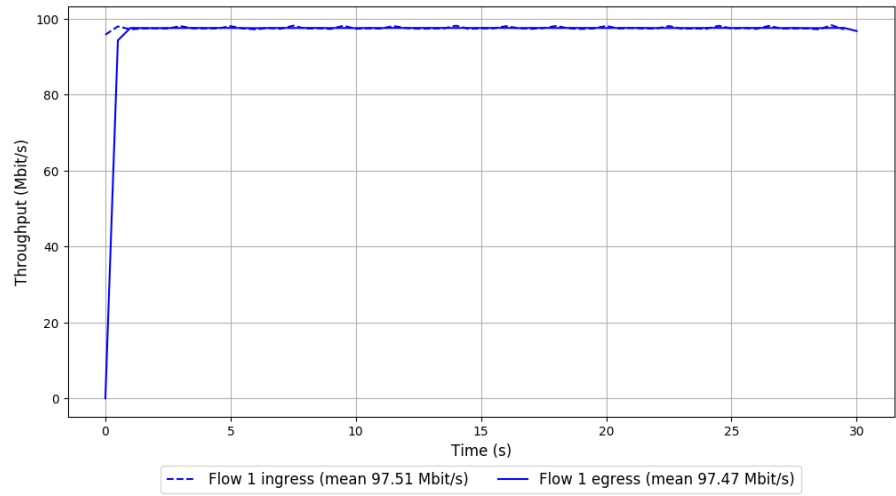
-- Flow 1:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 8.427 ms

Loss rate: 0.05%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-08-27 07:18:40

End at: 2019-08-27 07:19:10

Local clock offset: 0.248 ms

Remote clock offset: 0.785 ms

Below is generated by plot.py at 2019-08-27 07:52:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.42 Mbit/s

95th percentile per-packet one-way delay: 9.434 ms

Loss rate: 0.06%

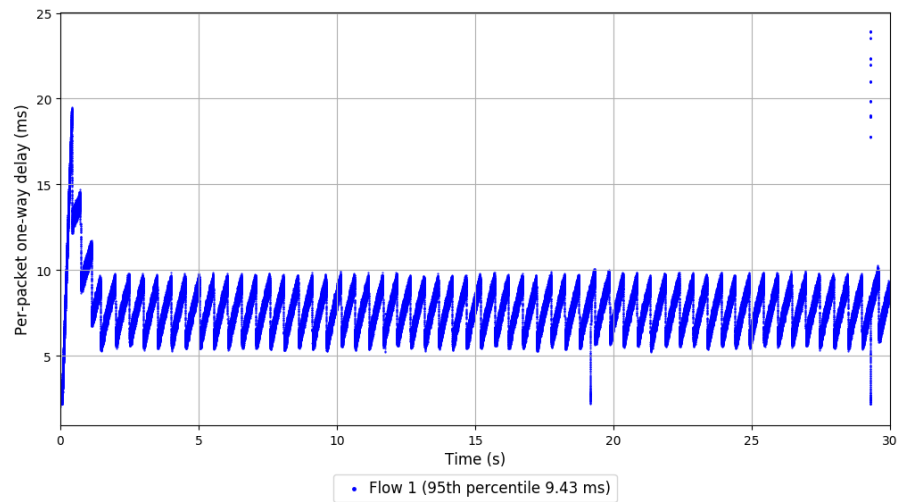
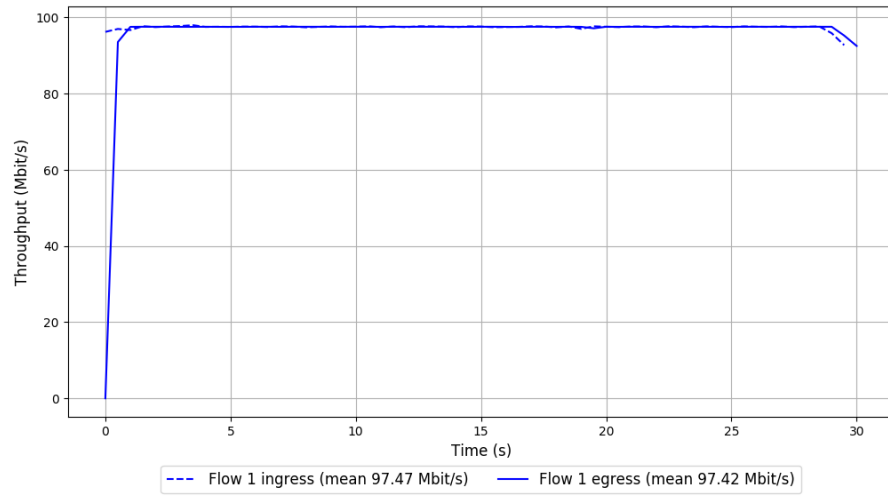
-- Flow 1:

Average throughput: 97.42 Mbit/s

95th percentile per-packet one-way delay: 9.434 ms

Loss rate: 0.06%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-08-27 07:45:39

End at: 2019-08-27 07:46:09

Local clock offset: 0.098 ms

Remote clock offset: 0.8 ms

Below is generated by plot.py at 2019-08-27 07:52:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.97 Mbit/s

95th percentile per-packet one-way delay: 9.377 ms

Loss rate: 0.06%

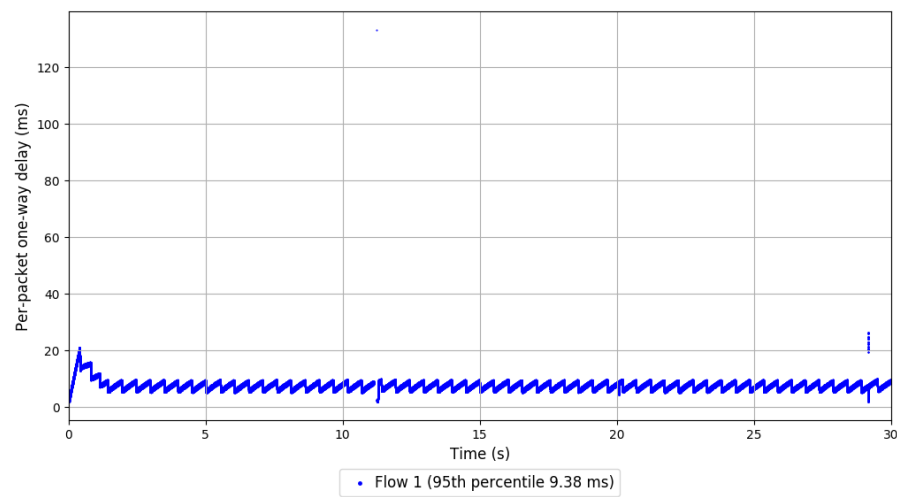
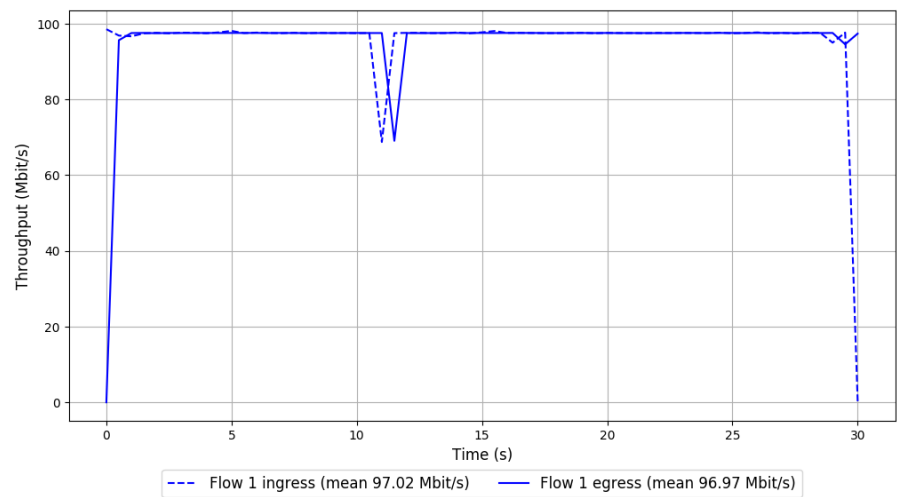
-- Flow 1:

Average throughput: 96.97 Mbit/s

95th percentile per-packet one-way delay: 9.377 ms

Loss rate: 0.06%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-08-27 05:55:35

End at: 2019-08-27 05:56:05

Local clock offset: 0.384 ms

Remote clock offset: 0.254 ms

Below is generated by plot.py at 2019-08-27 07:52:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.92 Mbit/s

95th percentile per-packet one-way delay: 9.596 ms

Loss rate: 0.04%

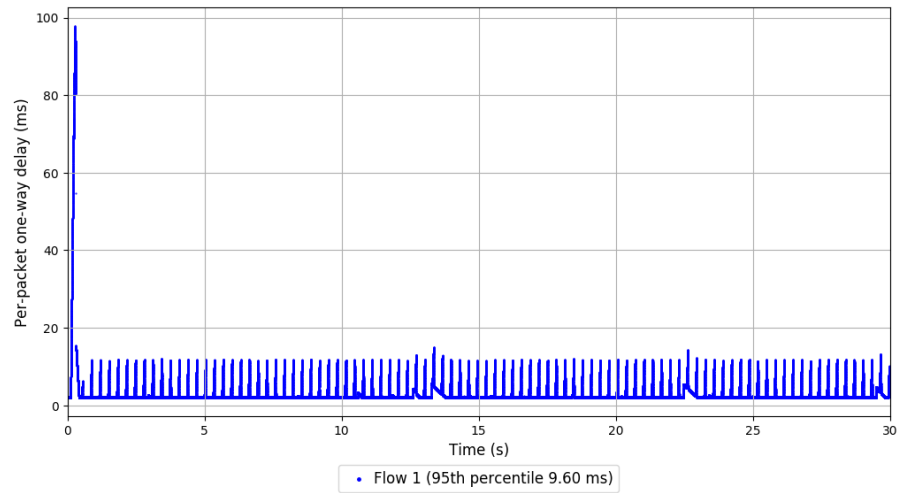
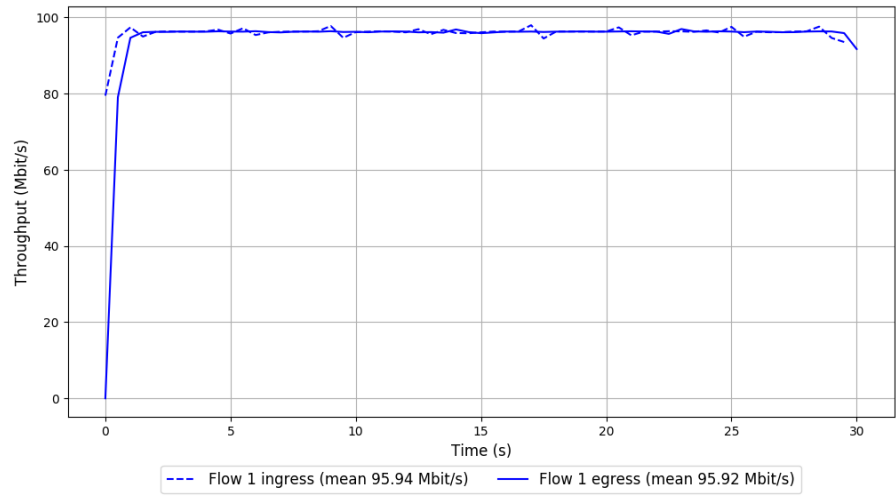
-- Flow 1:

Average throughput: 95.92 Mbit/s

95th percentile per-packet one-way delay: 9.596 ms

Loss rate: 0.04%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-08-27 06:22:30

End at: 2019-08-27 06:23:00

Local clock offset: -0.427 ms

Remote clock offset: 0.573 ms

Below is generated by plot.py at 2019-08-27 07:52:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.89 Mbit/s

95th percentile per-packet one-way delay: 8.905 ms

Loss rate: 0.03%

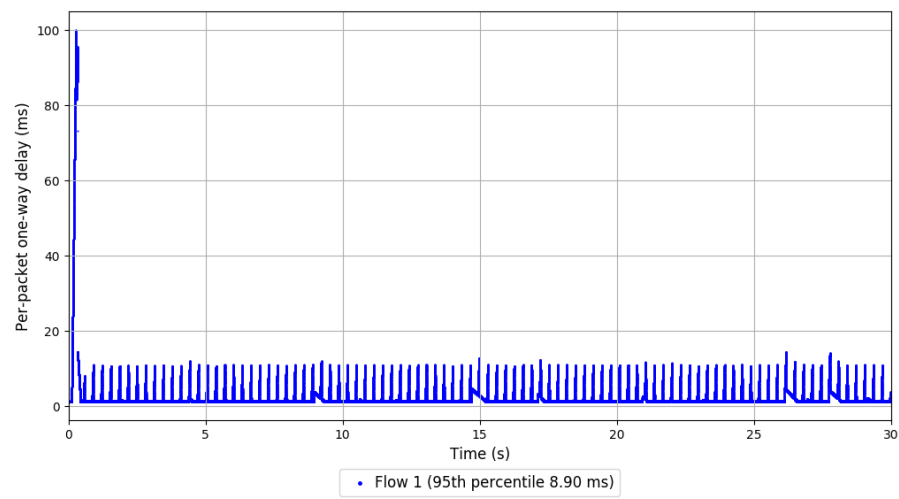
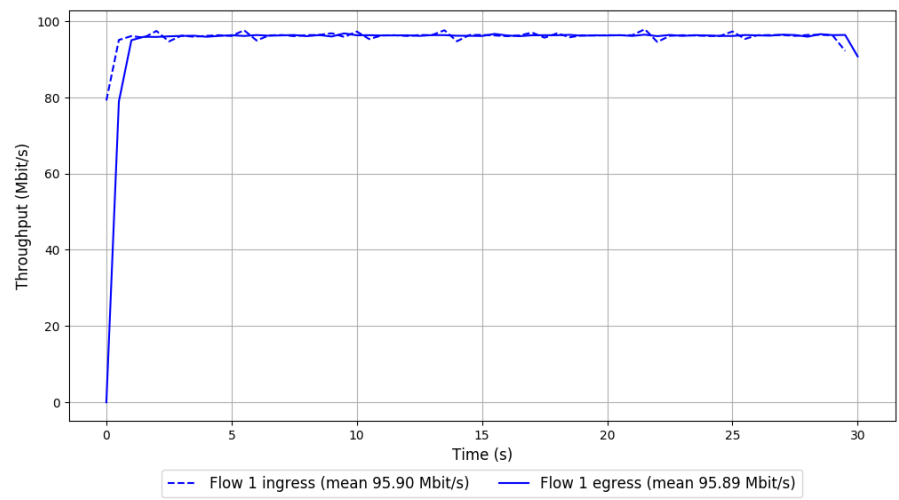
-- Flow 1:

Average throughput: 95.89 Mbit/s

95th percentile per-packet one-way delay: 8.905 ms

Loss rate: 0.03%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-08-27 06:49:26

End at: 2019-08-27 06:49:56

Local clock offset: -0.479 ms

Remote clock offset: 0.845 ms

Below is generated by plot.py at 2019-08-27 07:52:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.89 Mbit/s

95th percentile per-packet one-way delay: 8.848 ms

Loss rate: 0.02%

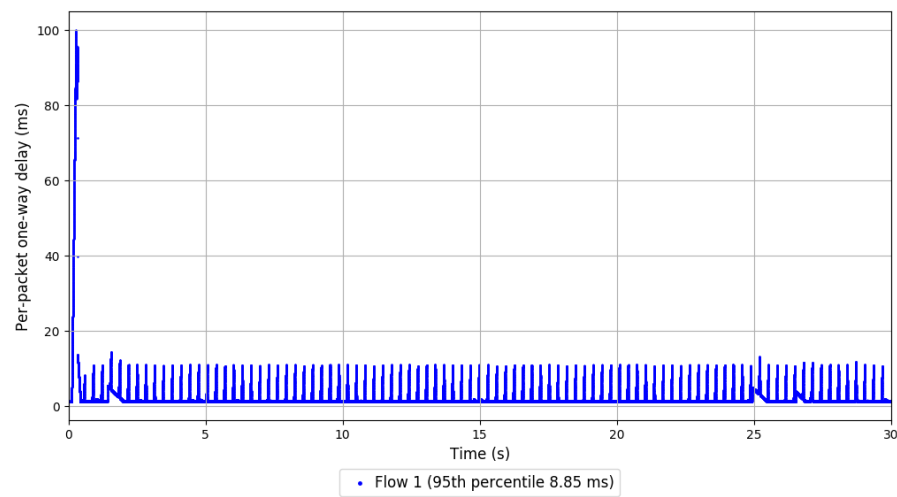
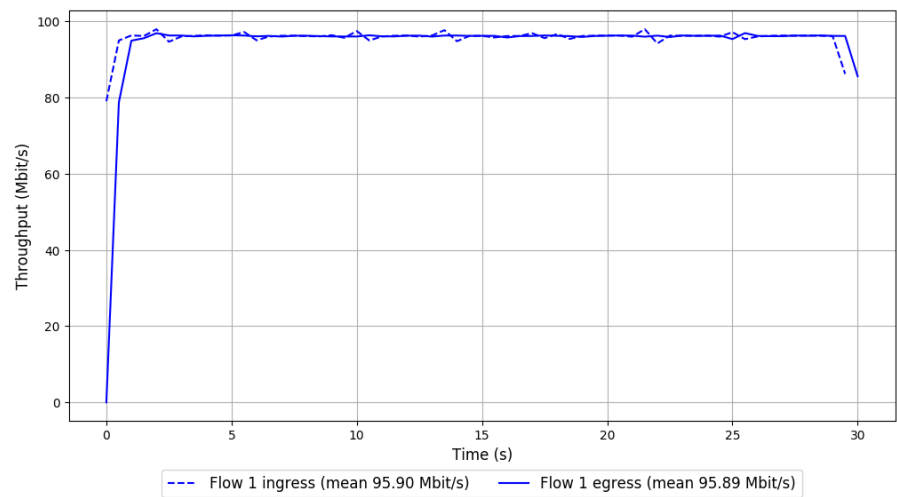
-- Flow 1:

Average throughput: 95.89 Mbit/s

95th percentile per-packet one-way delay: 8.848 ms

Loss rate: 0.02%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-08-27 07:16:24

End at: 2019-08-27 07:16:54

Local clock offset: -0.512 ms

Remote clock offset: 0.821 ms

Below is generated by plot.py at 2019-08-27 07:52:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.96 Mbit/s

95th percentile per-packet one-way delay: 10.028 ms

Loss rate: 0.02%

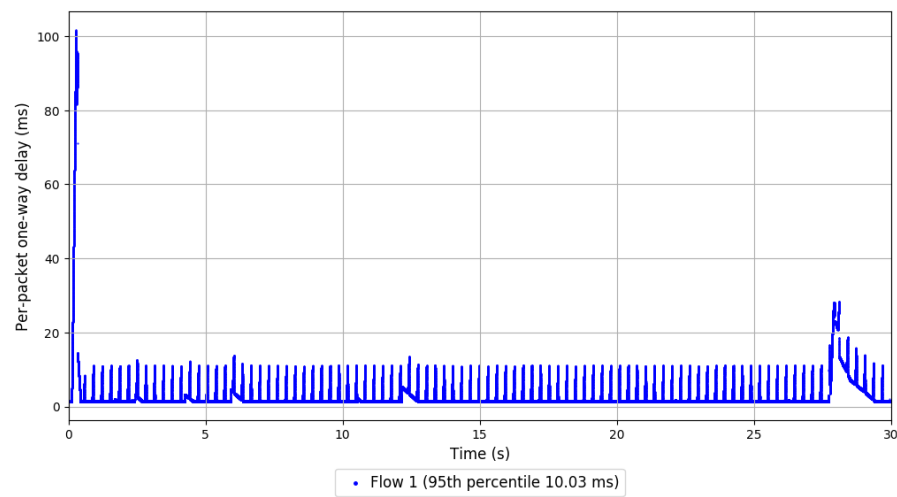
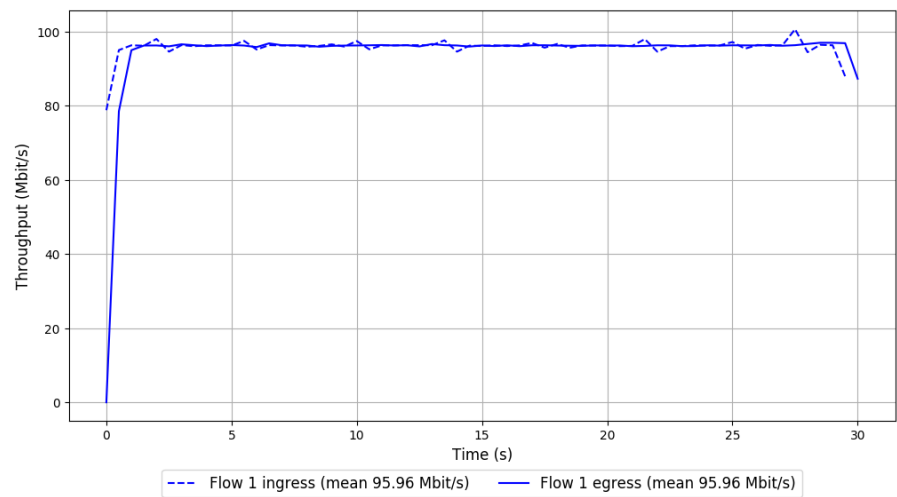
-- Flow 1:

Average throughput: 95.96 Mbit/s

95th percentile per-packet one-way delay: 10.028 ms

Loss rate: 0.02%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-08-27 07:43:23

End at: 2019-08-27 07:43:53

Local clock offset: -0.606 ms

Remote clock offset: 0.809 ms

Below is generated by plot.py at 2019-08-27 07:53:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.96 Mbit/s

95th percentile per-packet one-way delay: 9.570 ms

Loss rate: 0.03%

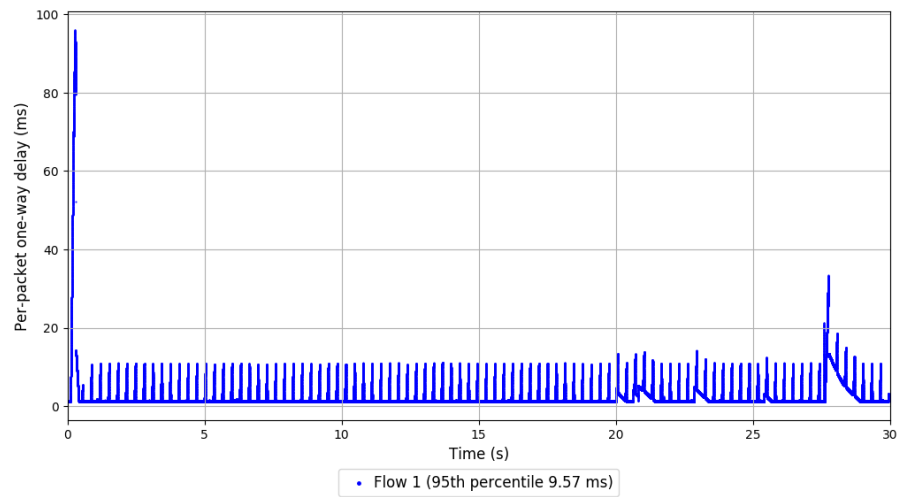
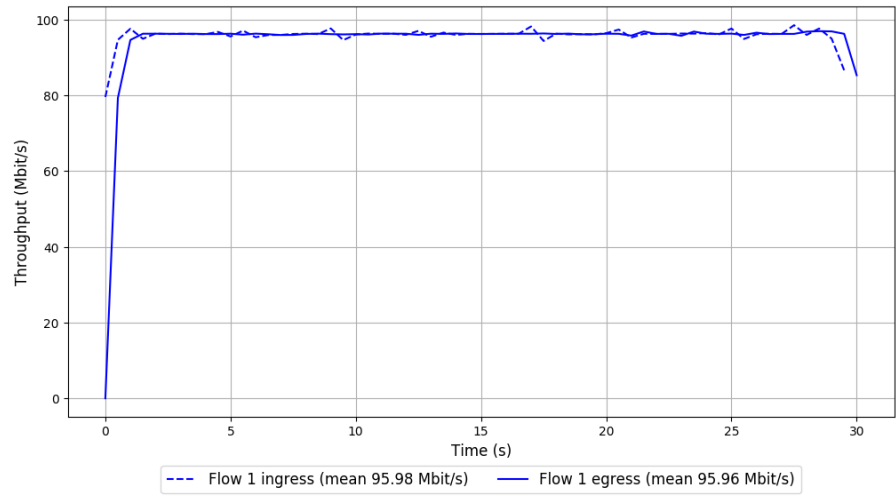
-- Flow 1:

Average throughput: 95.96 Mbit/s

95th percentile per-packet one-way delay: 9.570 ms

Loss rate: 0.03%

Run 5: Report of FillP — Data Link

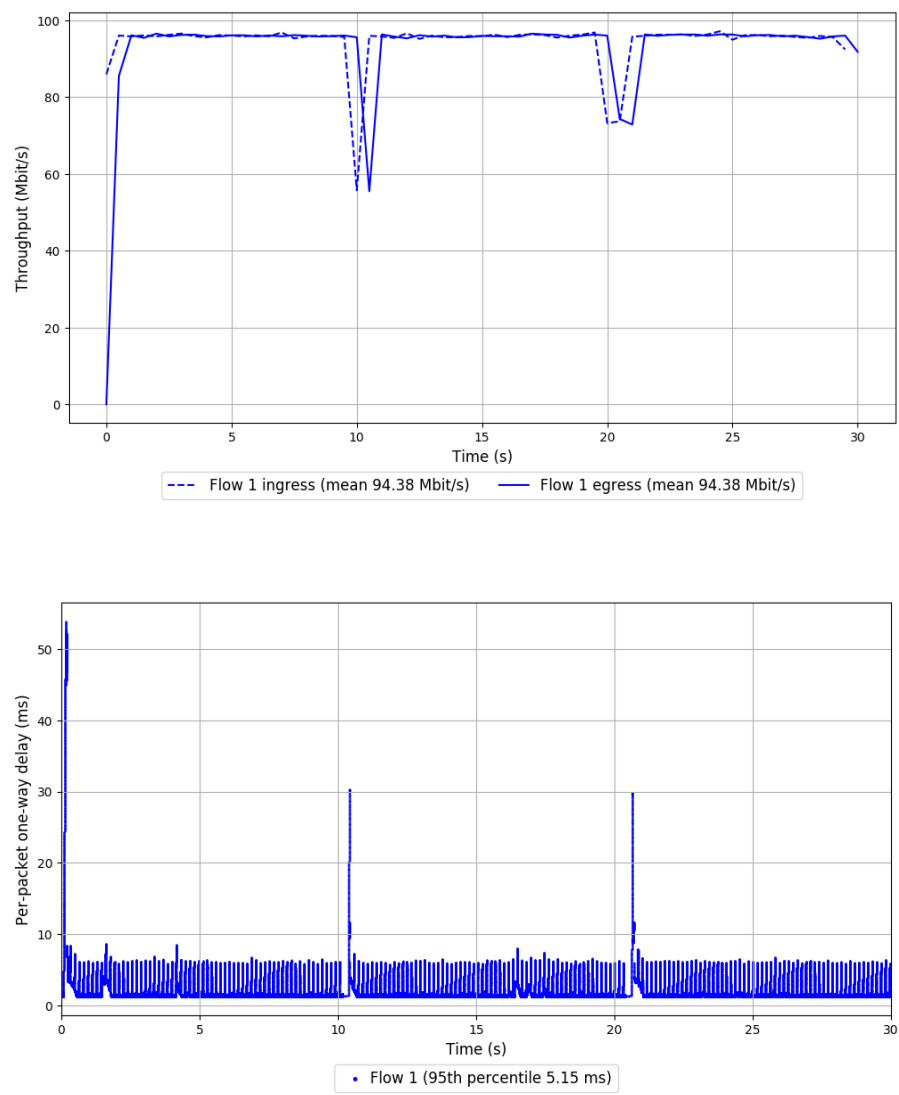


Run 1: Statistics of FillP-Sheep

Start at: 2019-08-27 05:37:39
End at: 2019-08-27 05:38:09
Local clock offset: -0.441 ms
Remote clock offset: -0.054 ms

Below is generated by plot.py at 2019-08-27 07:53:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.38 Mbit/s
95th percentile per-packet one-way delay: 5.153 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 94.38 Mbit/s
95th percentile per-packet one-way delay: 5.153 ms
Loss rate: 0.02%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-08-27 06:04:37

End at: 2019-08-27 06:05:07

Local clock offset: 0.385 ms

Remote clock offset: 0.352 ms

Below is generated by plot.py at 2019-08-27 07:53:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.43 Mbit/s

95th percentile per-packet one-way delay: 6.314 ms

Loss rate: 0.03%

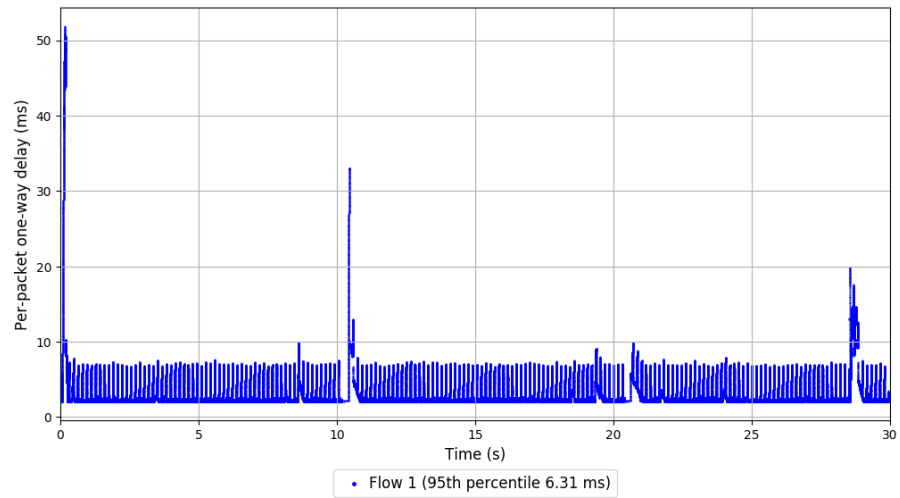
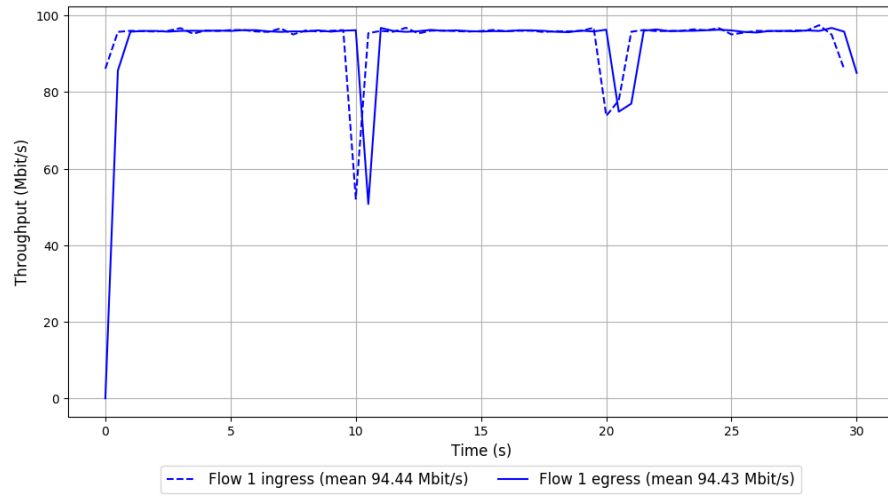
-- Flow 1:

Average throughput: 94.43 Mbit/s

95th percentile per-packet one-way delay: 6.314 ms

Loss rate: 0.03%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-08-27 06:31:31

End at: 2019-08-27 06:32:01

Local clock offset: -0.492 ms

Remote clock offset: 0.796 ms

Below is generated by plot.py at 2019-08-27 07:53:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.34 Mbit/s

95th percentile per-packet one-way delay: 5.463 ms

Loss rate: 0.02%

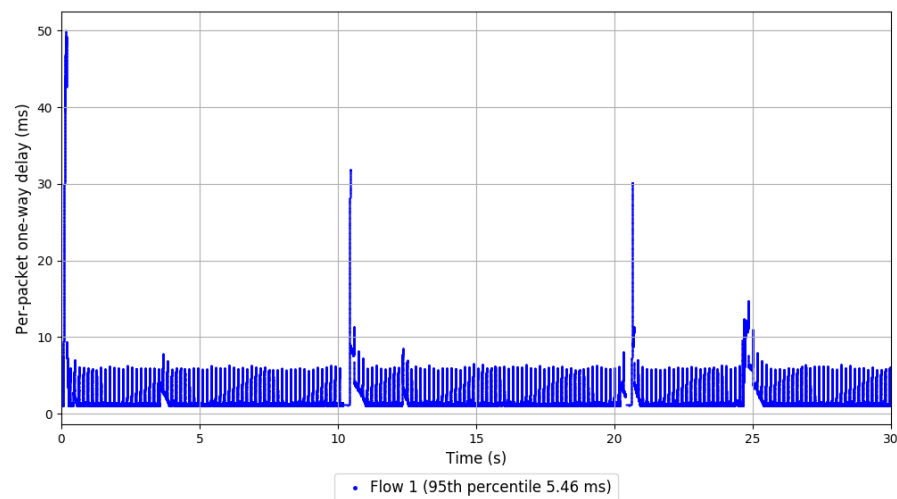
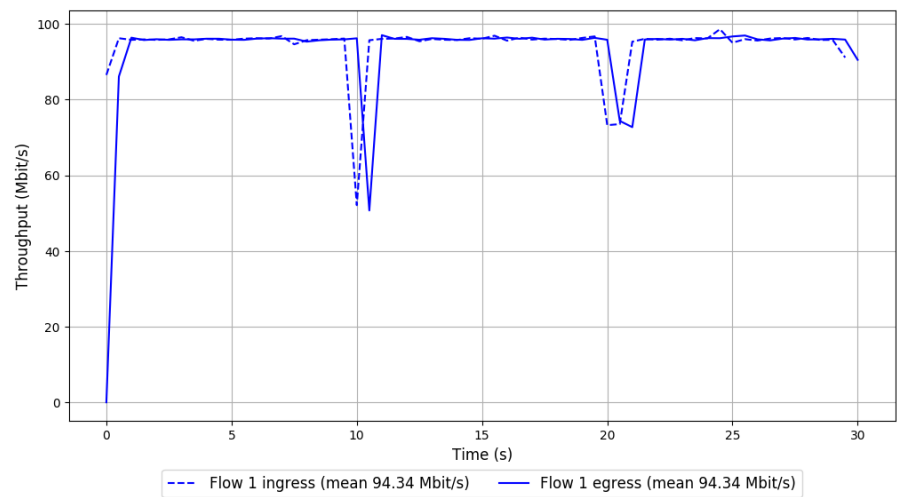
-- Flow 1:

Average throughput: 94.34 Mbit/s

95th percentile per-packet one-way delay: 5.463 ms

Loss rate: 0.02%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-08-27 06:58:30

End at: 2019-08-27 06:59:00

Local clock offset: 0.225 ms

Remote clock offset: 0.86 ms

Below is generated by plot.py at 2019-08-27 07:53:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.34 Mbit/s

95th percentile per-packet one-way delay: 5.947 ms

Loss rate: 0.02%

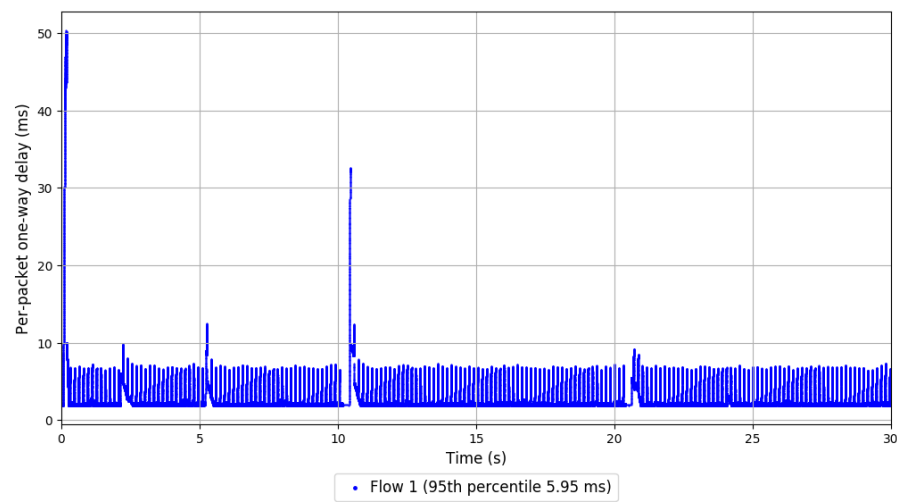
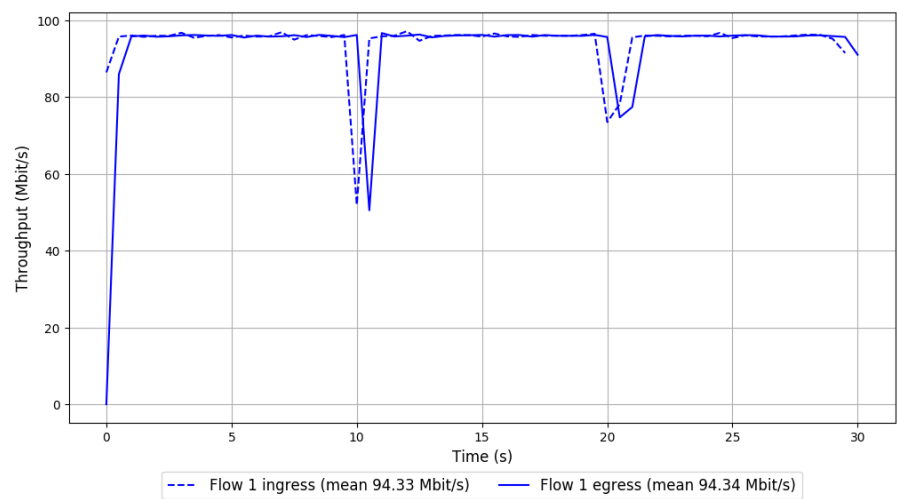
-- Flow 1:

Average throughput: 94.34 Mbit/s

95th percentile per-packet one-way delay: 5.947 ms

Loss rate: 0.02%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-08-27 07:25:27

End at: 2019-08-27 07:25:57

Local clock offset: 0.262 ms

Remote clock offset: 0.888 ms

Below is generated by plot.py at 2019-08-27 07:53:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.52 Mbit/s

95th percentile per-packet one-way delay: 6.167 ms

Loss rate: 0.03%

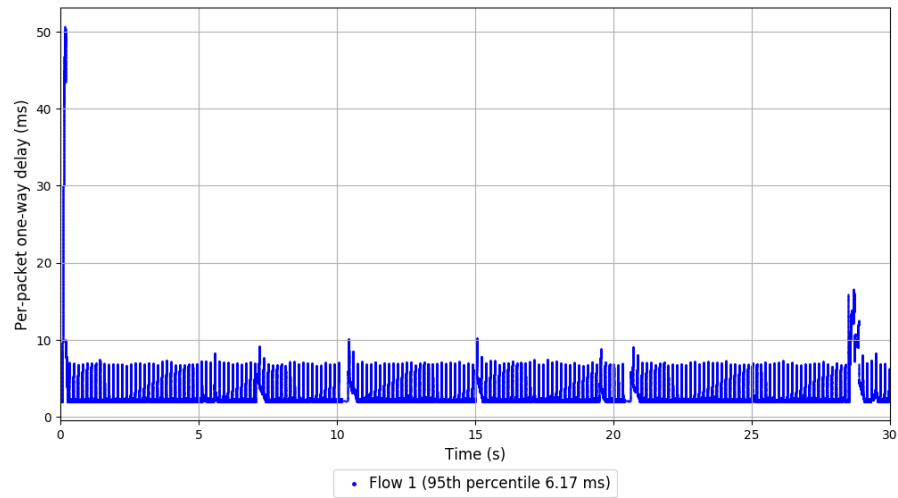
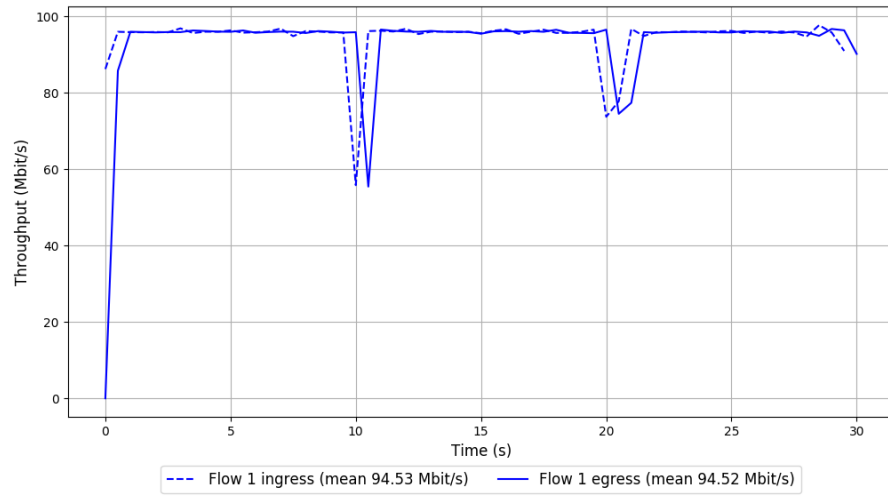
-- Flow 1:

Average throughput: 94.52 Mbit/s

95th percentile per-packet one-way delay: 6.167 ms

Loss rate: 0.03%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-08-27 05:45:22

End at: 2019-08-27 05:45:52

Local clock offset: -0.45 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2019-08-27 07:53:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.24 Mbit/s

95th percentile per-packet one-way delay: 4.104 ms

Loss rate: 0.02%

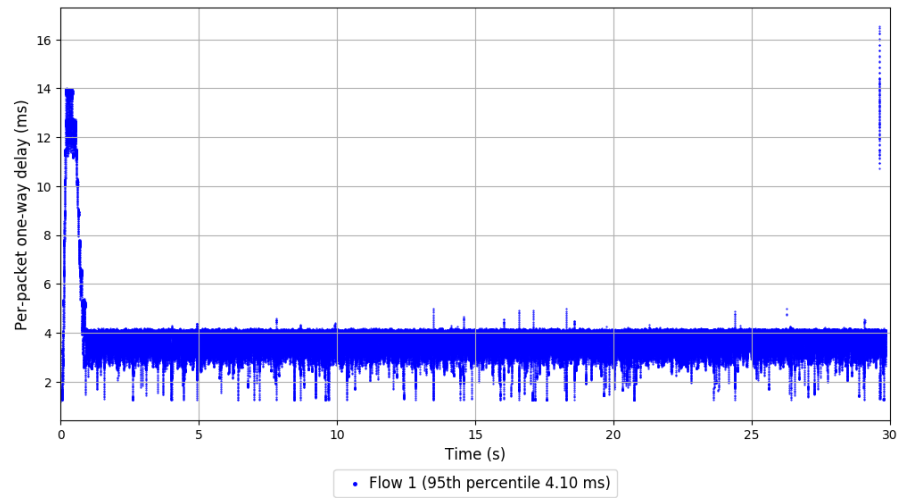
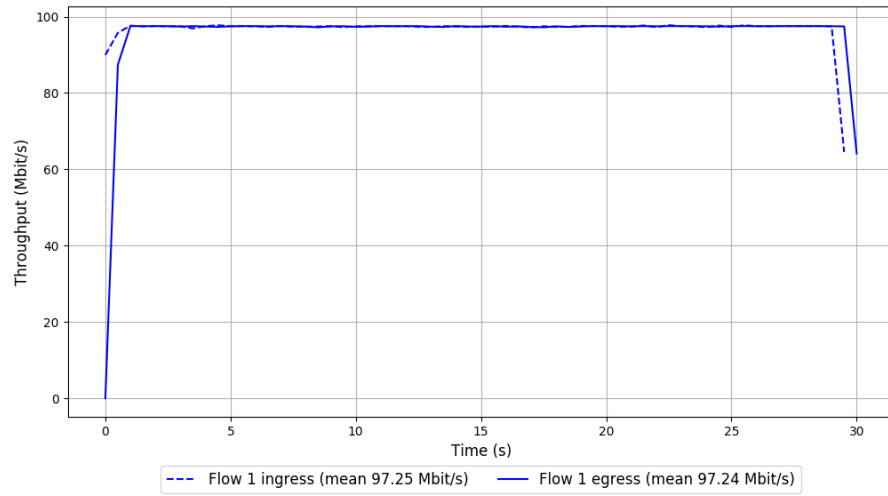
-- Flow 1:

Average throughput: 97.24 Mbit/s

95th percentile per-packet one-way delay: 4.104 ms

Loss rate: 0.02%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-08-27 06:12:19

End at: 2019-08-27 06:12:49

Local clock offset: -0.413 ms

Remote clock offset: 0.395 ms

Below is generated by plot.py at 2019-08-27 07:53:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.17 Mbit/s

95th percentile per-packet one-way delay: 4.228 ms

Loss rate: 0.02%

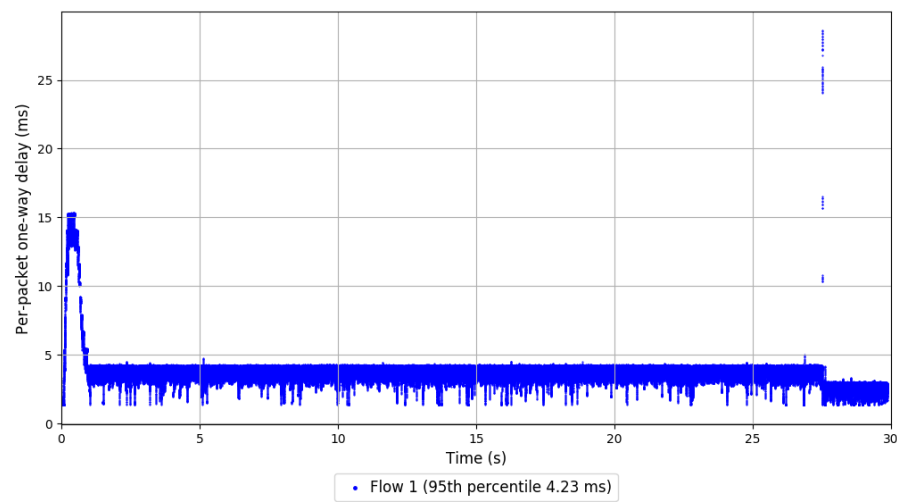
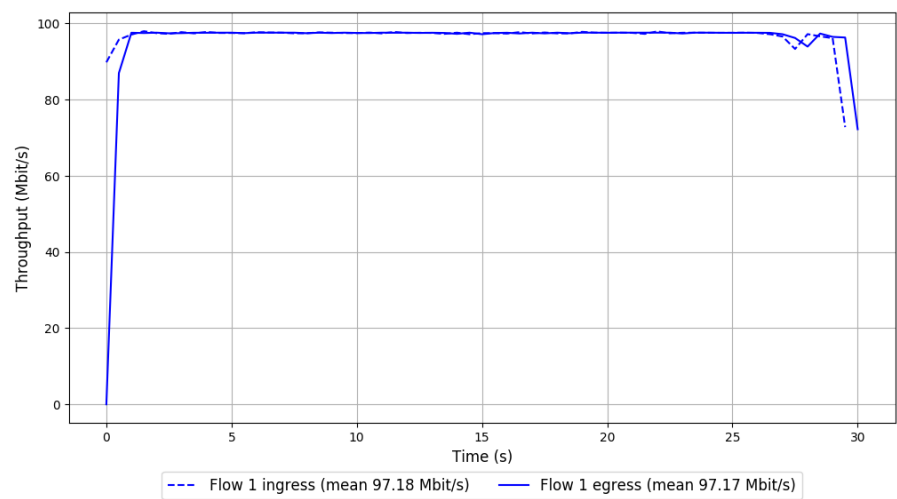
-- Flow 1:

Average throughput: 97.17 Mbit/s

95th percentile per-packet one-way delay: 4.228 ms

Loss rate: 0.02%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-08-27 06:39:13

End at: 2019-08-27 06:39:43

Local clock offset: 0.335 ms

Remote clock offset: 0.821 ms

Below is generated by plot.py at 2019-08-27 07:54:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.29 Mbit/s

95th percentile per-packet one-way delay: 4.774 ms

Loss rate: 0.02%

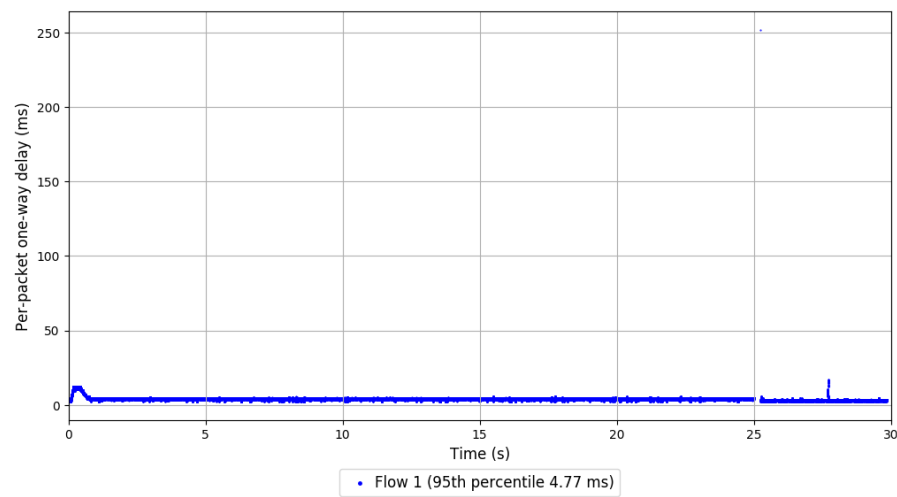
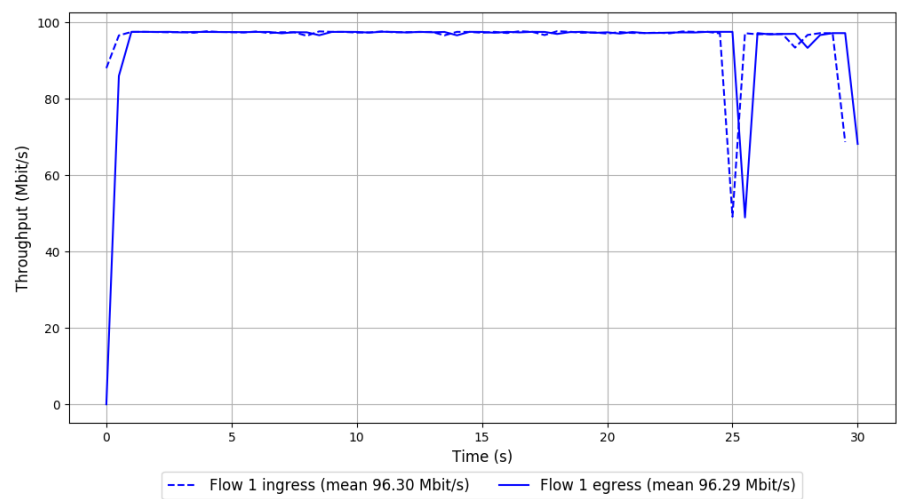
-- Flow 1:

Average throughput: 96.29 Mbit/s

95th percentile per-packet one-way delay: 4.774 ms

Loss rate: 0.02%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-08-27 07:06:11

End at: 2019-08-27 07:06:42

Local clock offset: -0.467 ms

Remote clock offset: 0.925 ms

Below is generated by plot.py at 2019-08-27 07:54:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.79 Mbit/s

95th percentile per-packet one-way delay: 4.101 ms

Loss rate: 0.02%

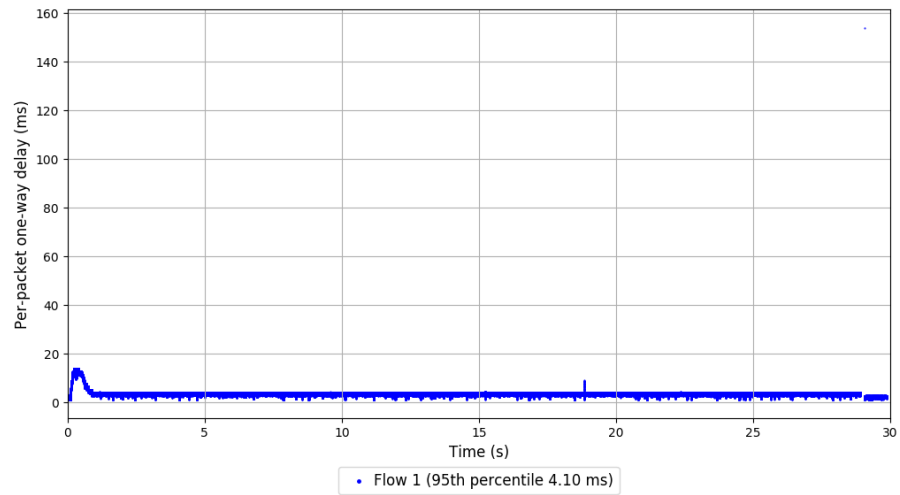
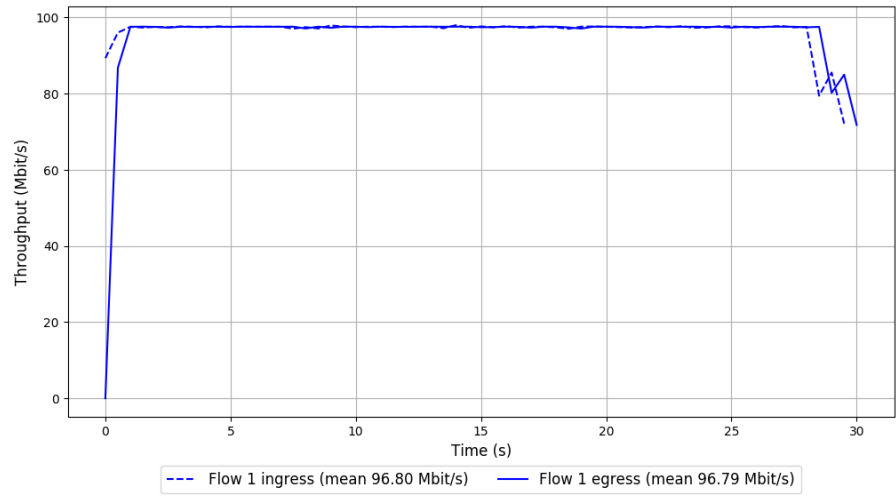
-- Flow 1:

Average throughput: 96.79 Mbit/s

95th percentile per-packet one-way delay: 4.101 ms

Loss rate: 0.02%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-08-27 07:33:11

End at: 2019-08-27 07:33:41

Local clock offset: 0.222 ms

Remote clock offset: 0.86 ms

Below is generated by plot.py at 2019-08-27 07:54:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.17 Mbit/s

95th percentile per-packet one-way delay: 4.683 ms

Loss rate: 0.03%

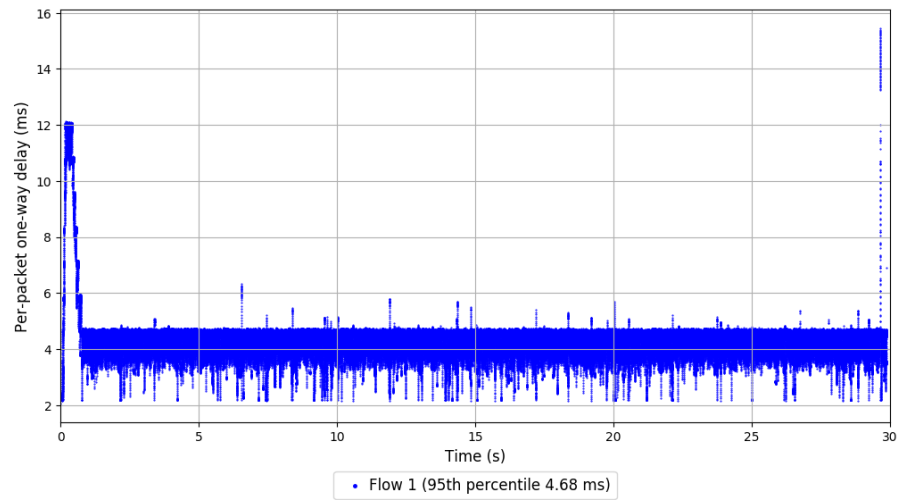
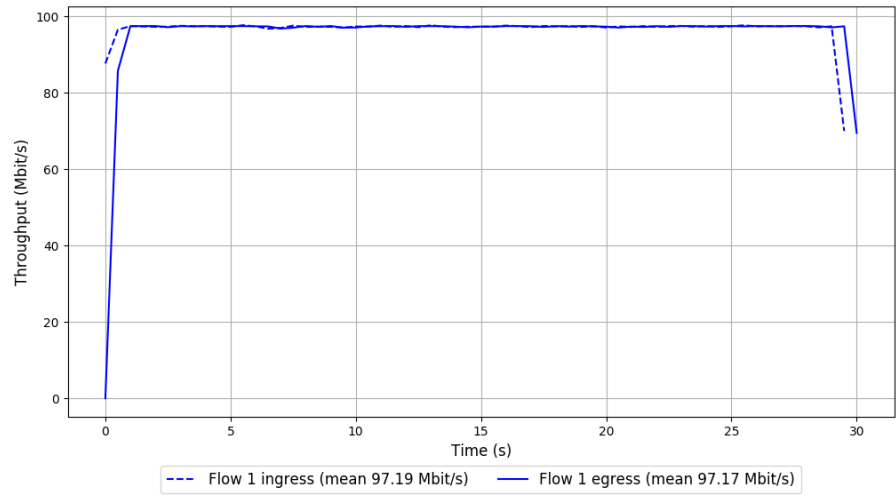
-- Flow 1:

Average throughput: 97.17 Mbit/s

95th percentile per-packet one-way delay: 4.683 ms

Loss rate: 0.03%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-08-27 05:47:42

End at: 2019-08-27 05:48:12

Local clock offset: 0.364 ms

Remote clock offset: -0.017 ms

Below is generated by plot.py at 2019-08-27 07:54:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.77 Mbit/s

95th percentile per-packet one-way delay: 4.137 ms

Loss rate: 0.02%

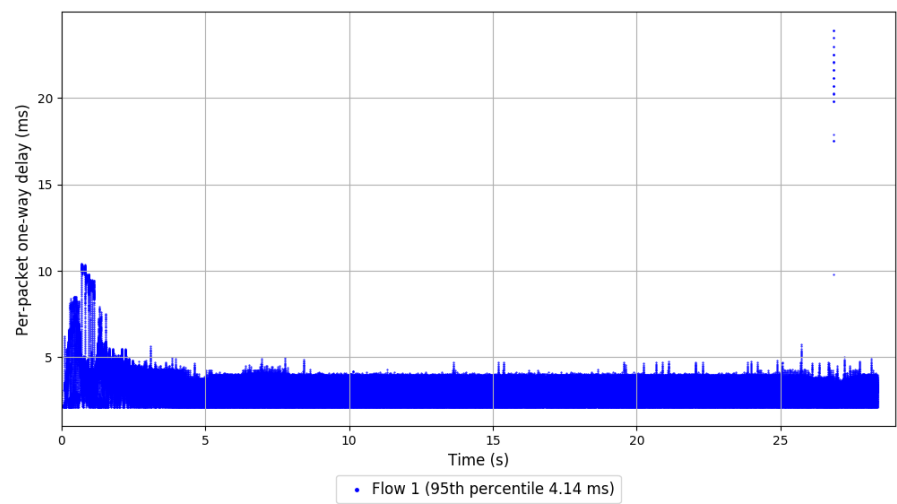
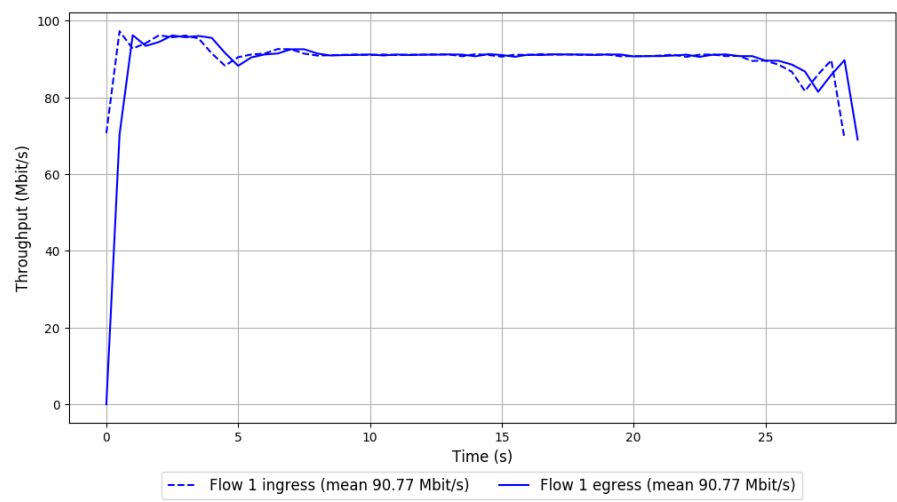
-- Flow 1:

Average throughput: 90.77 Mbit/s

95th percentile per-packet one-way delay: 4.137 ms

Loss rate: 0.02%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-08-27 06:14:38

End at: 2019-08-27 06:15:08

Local clock offset: -0.405 ms

Remote clock offset: 0.427 ms

Below is generated by plot.py at 2019-08-27 07:54:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.35 Mbit/s

95th percentile per-packet one-way delay: 3.374 ms

Loss rate: 0.02%

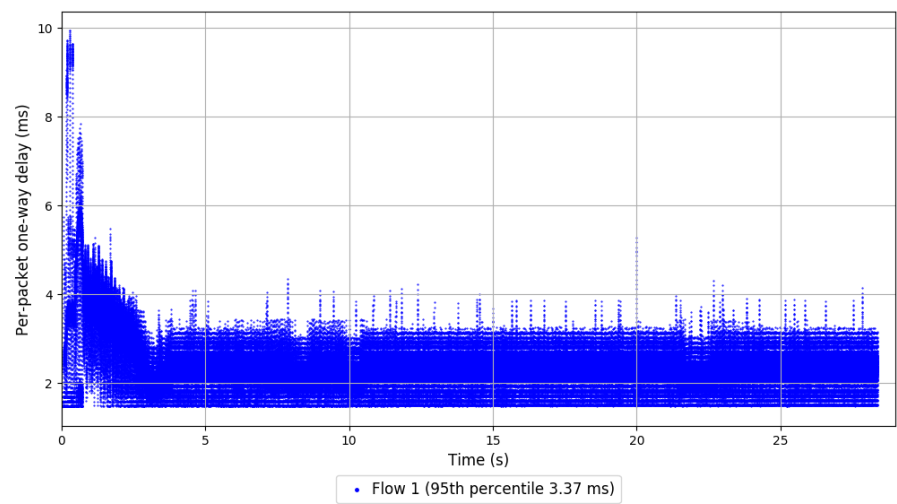
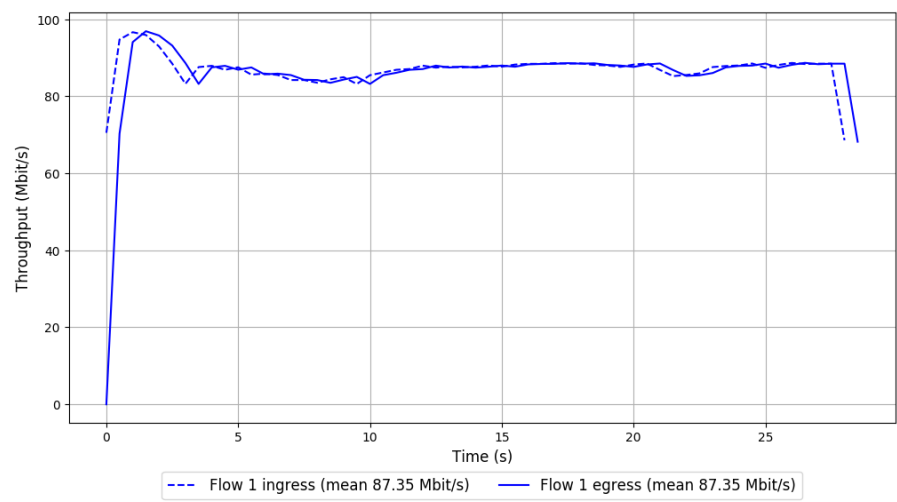
-- Flow 1:

Average throughput: 87.35 Mbit/s

95th percentile per-packet one-way delay: 3.374 ms

Loss rate: 0.02%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-08-27 06:41:33

End at: 2019-08-27 06:42:03

Local clock offset: 0.304 ms

Remote clock offset: 0.89 ms

Below is generated by plot.py at 2019-08-27 07:54:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.44 Mbit/s

95th percentile per-packet one-way delay: 3.257 ms

Loss rate: 0.01%

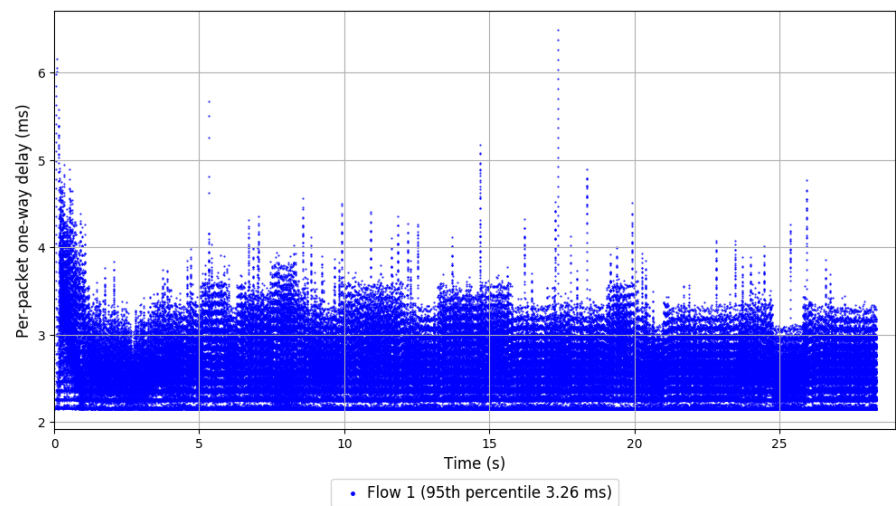
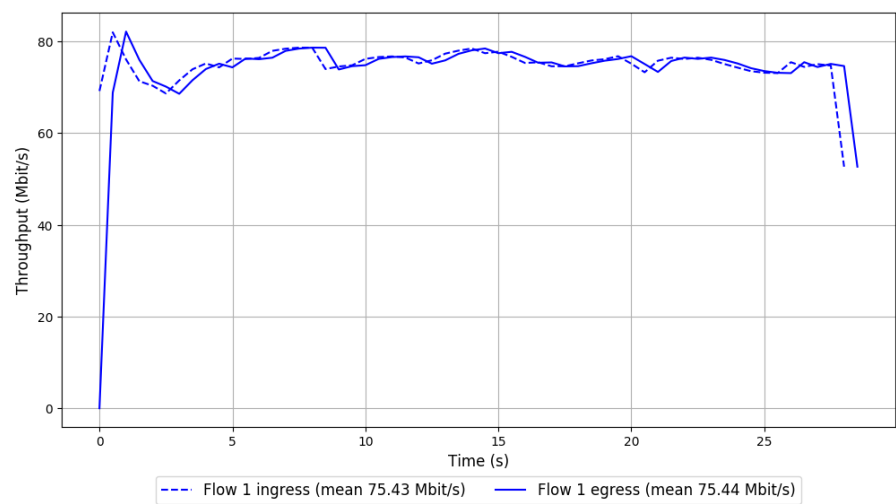
-- Flow 1:

Average throughput: 75.44 Mbit/s

95th percentile per-packet one-way delay: 3.257 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-08-27 07:08:31

End at: 2019-08-27 07:09:01

Local clock offset: 0.313 ms

Remote clock offset: 0.872 ms

Below is generated by plot.py at 2019-08-27 07:54:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.46 Mbit/s

95th percentile per-packet one-way delay: 3.223 ms

Loss rate: 0.02%

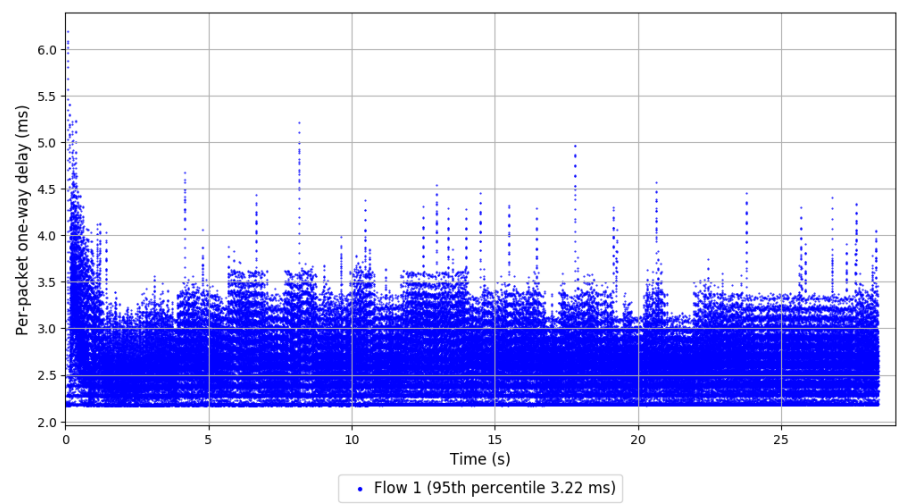
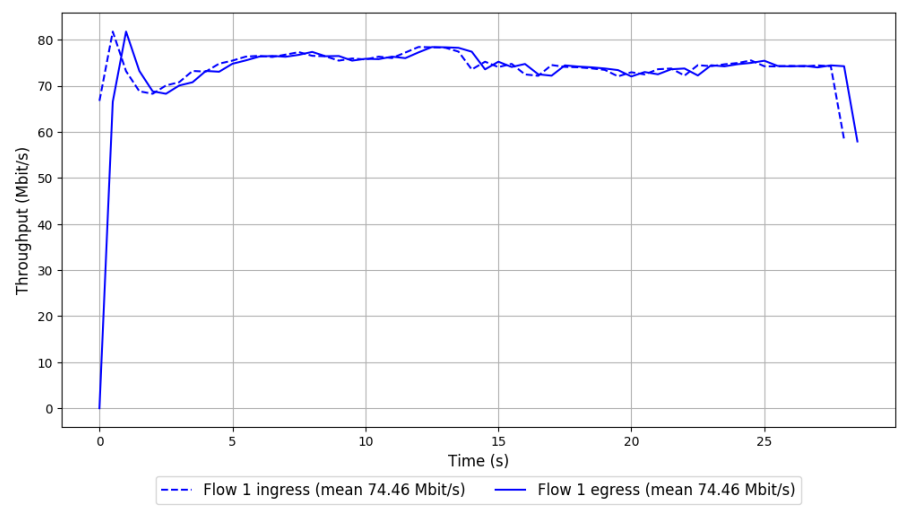
-- Flow 1:

Average throughput: 74.46 Mbit/s

95th percentile per-packet one-way delay: 3.223 ms

Loss rate: 0.02%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-08-27 07:35:31

End at: 2019-08-27 07:36:01

Local clock offset: 0.2 ms

Remote clock offset: 0.869 ms

Below is generated by plot.py at 2019-08-27 07:55:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.07 Mbit/s

95th percentile per-packet one-way delay: 3.637 ms

Loss rate: 0.02%

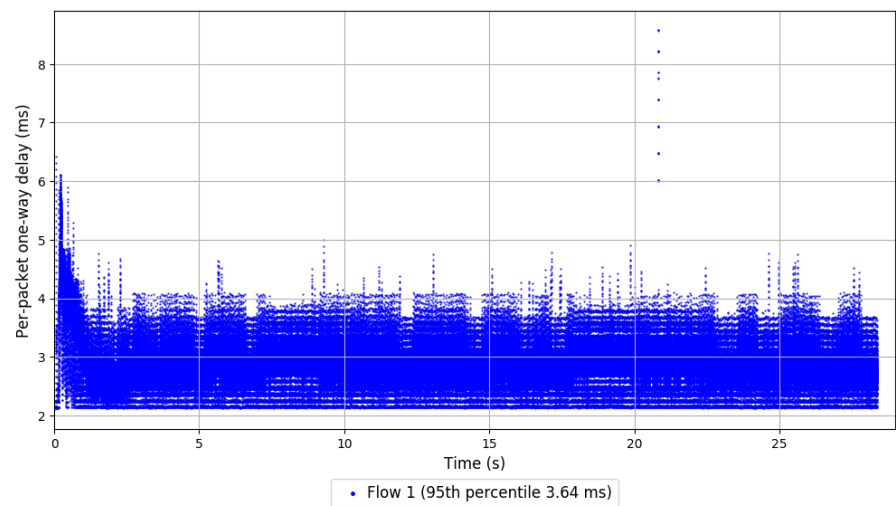
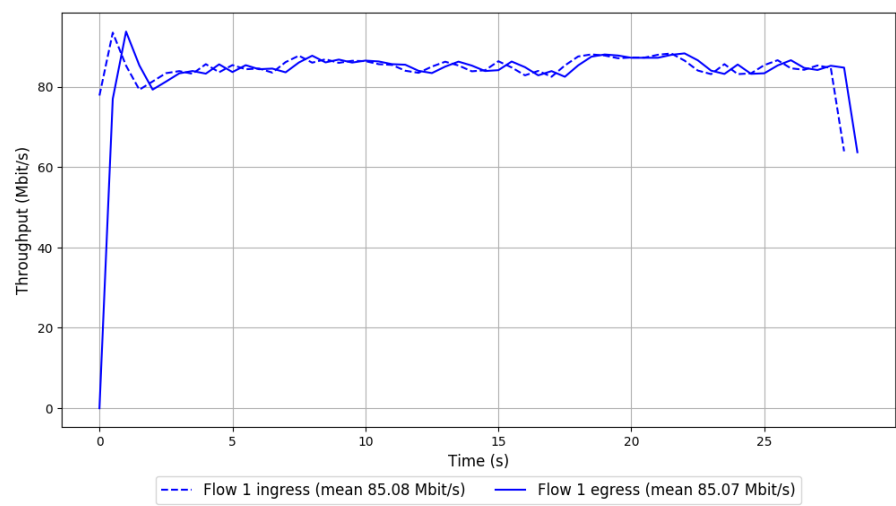
-- Flow 1:

Average throughput: 85.07 Mbit/s

95th percentile per-packet one-way delay: 3.637 ms

Loss rate: 0.02%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-08-27 05:54:29

End at: 2019-08-27 05:54:59

Local clock offset: -0.392 ms

Remote clock offset: 0.104 ms

Below is generated by plot.py at 2019-08-27 07:55:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.23 Mbit/s

95th percentile per-packet one-way delay: 3.334 ms

Loss rate: 0.01%

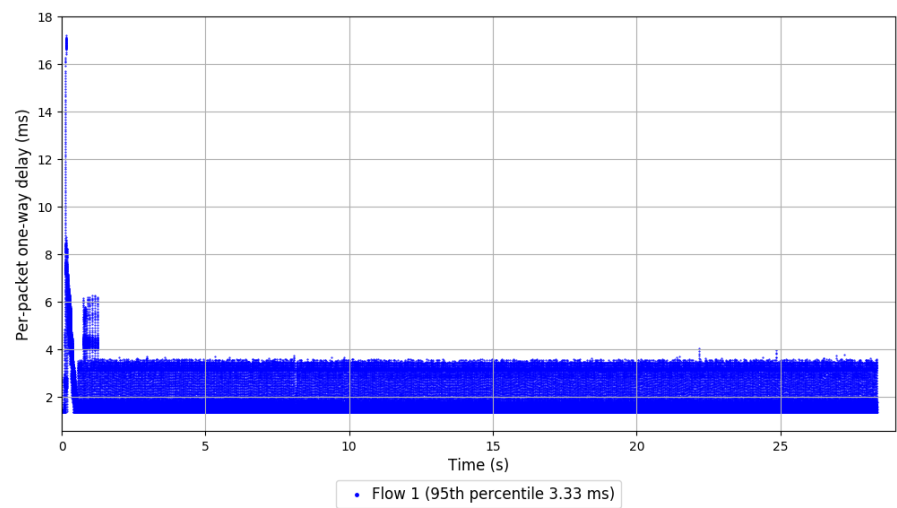
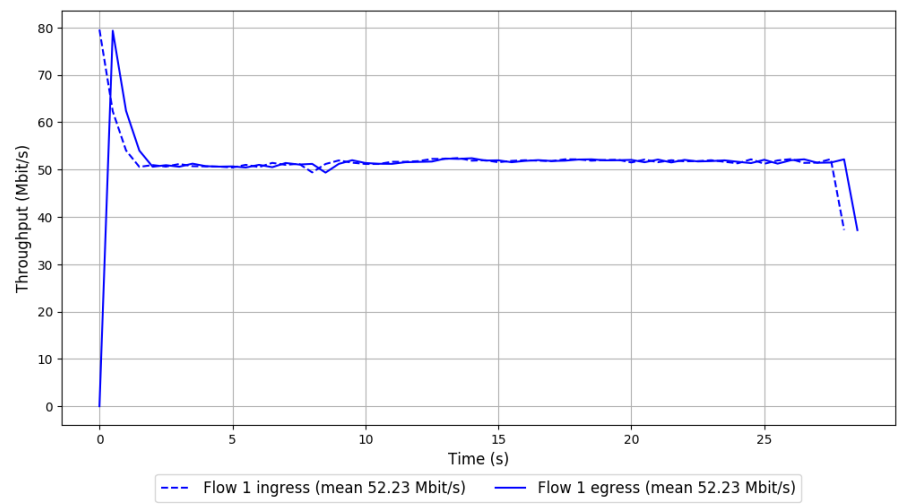
-- Flow 1:

Average throughput: 52.23 Mbit/s

95th percentile per-packet one-way delay: 3.334 ms

Loss rate: 0.01%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-08-27 06:21:23

End at: 2019-08-27 06:21:53

Local clock offset: -0.493 ms

Remote clock offset: 0.578 ms

Below is generated by plot.py at 2019-08-27 07:55:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.34 Mbit/s

95th percentile per-packet one-way delay: 1.599 ms

Loss rate: 0.02%

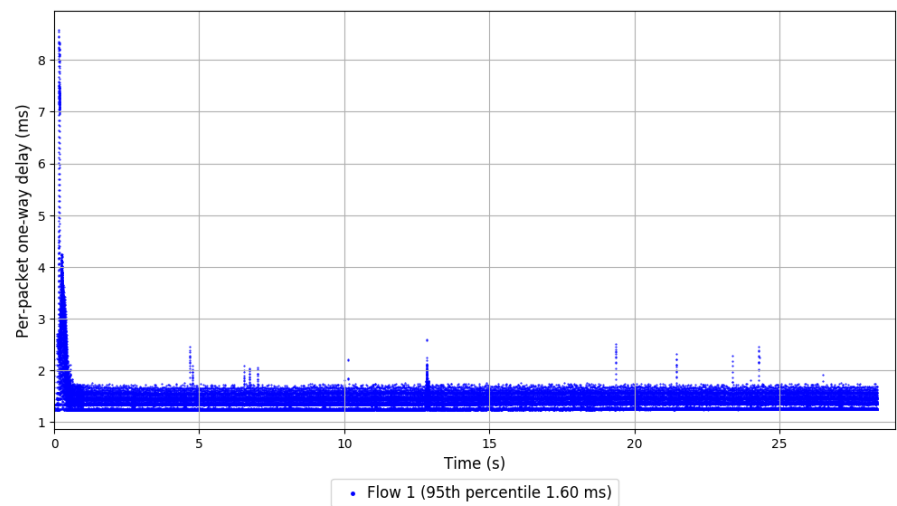
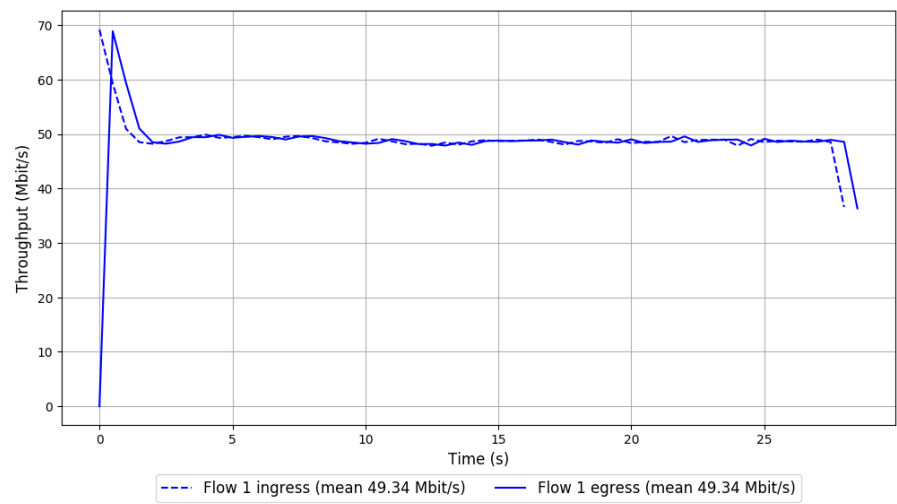
-- Flow 1:

Average throughput: 49.34 Mbit/s

95th percentile per-packet one-way delay: 1.599 ms

Loss rate: 0.02%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-08-27 06:48:20

End at: 2019-08-27 06:48:50

Local clock offset: -0.473 ms

Remote clock offset: 0.853 ms

Below is generated by plot.py at 2019-08-27 07:55:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.31 Mbit/s

95th percentile per-packet one-way delay: 3.164 ms

Loss rate: 0.01%

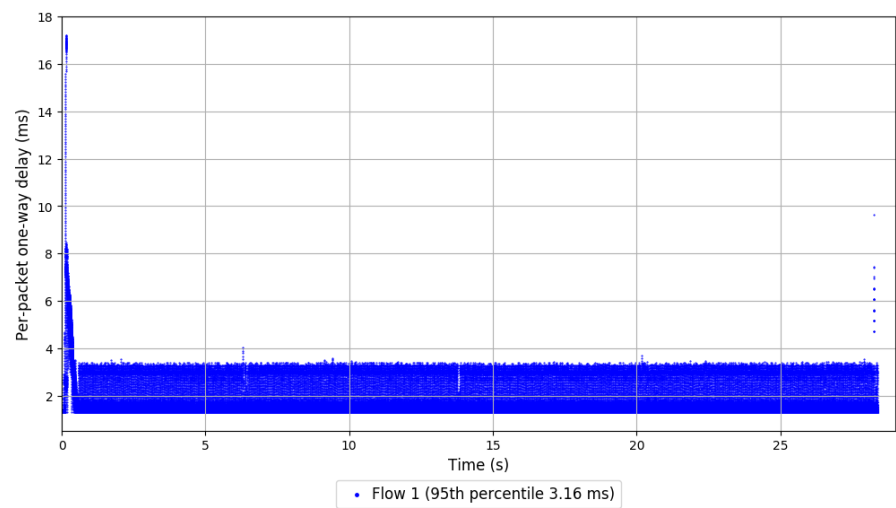
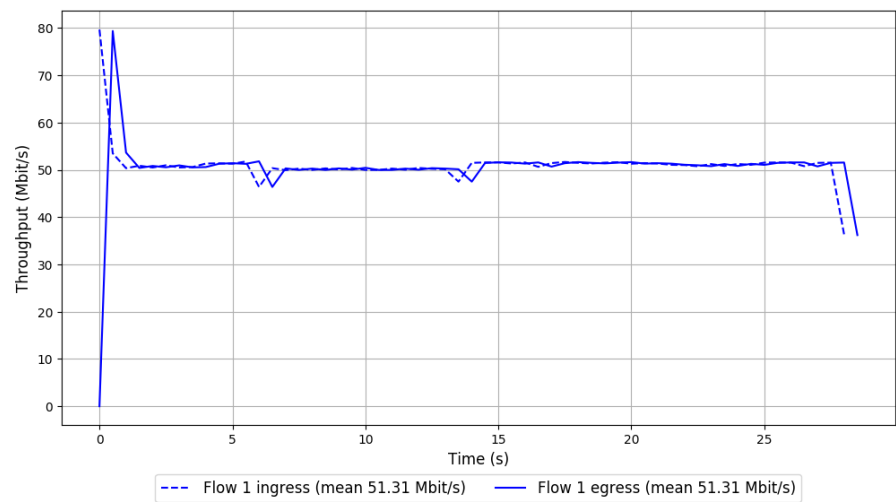
-- Flow 1:

Average throughput: 51.31 Mbit/s

95th percentile per-packet one-way delay: 3.164 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-08-27 07:15:18

End at: 2019-08-27 07:15:48

Local clock offset: 0.284 ms

Remote clock offset: 0.862 ms

Below is generated by plot.py at 2019-08-27 07:55:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.85 Mbit/s

95th percentile per-packet one-way delay: 2.560 ms

Loss rate: 0.01%

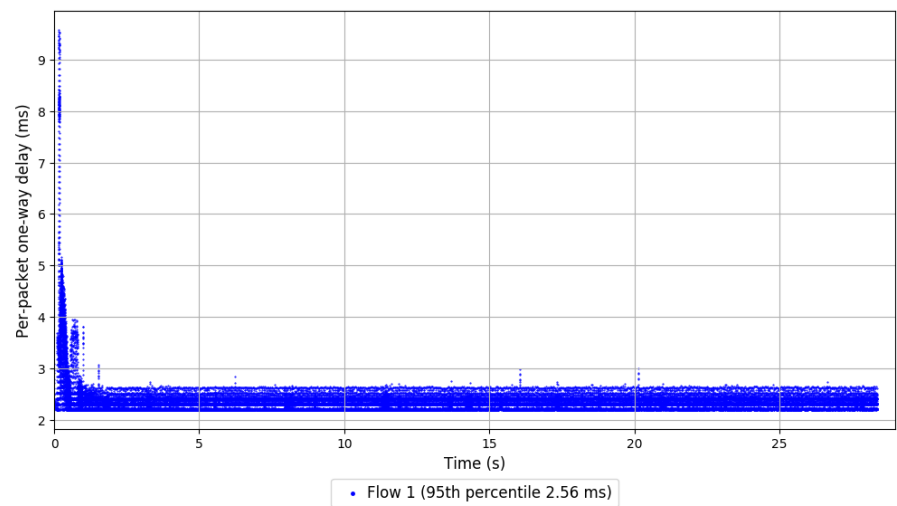
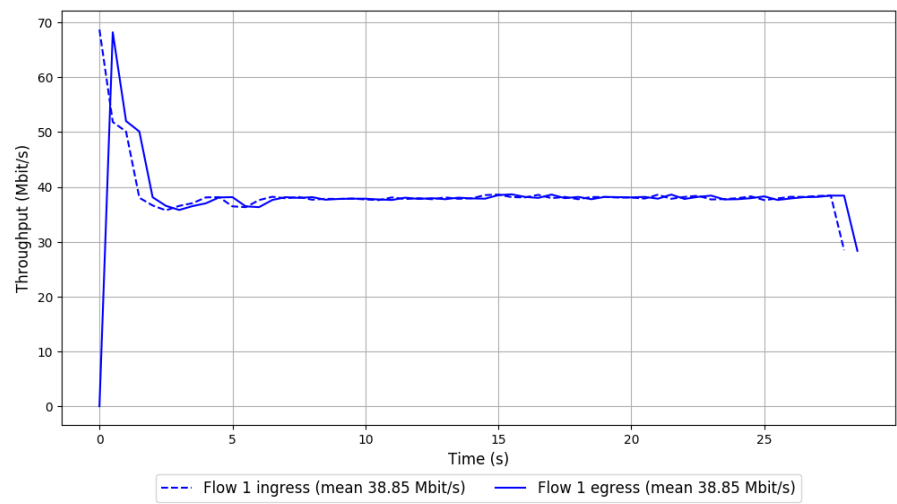
-- Flow 1:

Average throughput: 38.85 Mbit/s

95th percentile per-packet one-way delay: 2.560 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-08-27 07:42:16

End at: 2019-08-27 07:42:46

Local clock offset: -0.621 ms

Remote clock offset: 0.765 ms

Below is generated by plot.py at 2019-08-27 07:55:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.66 Mbit/s

95th percentile per-packet one-way delay: 3.139 ms

Loss rate: 0.02%

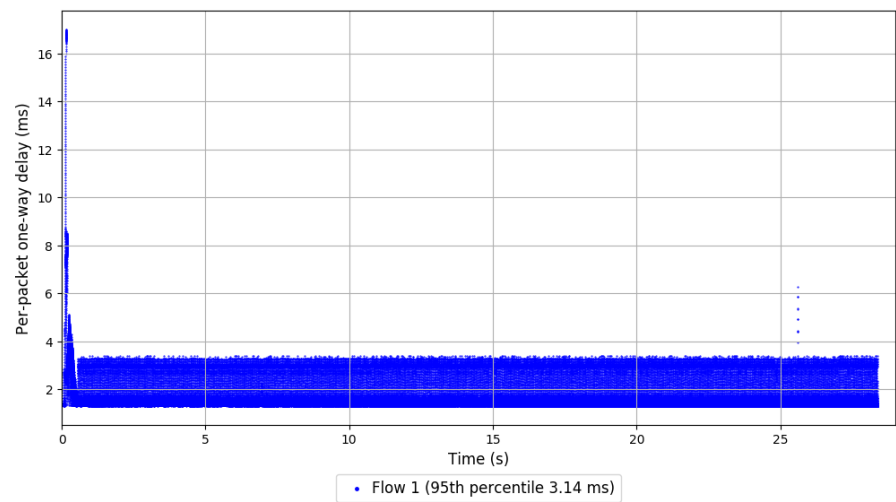
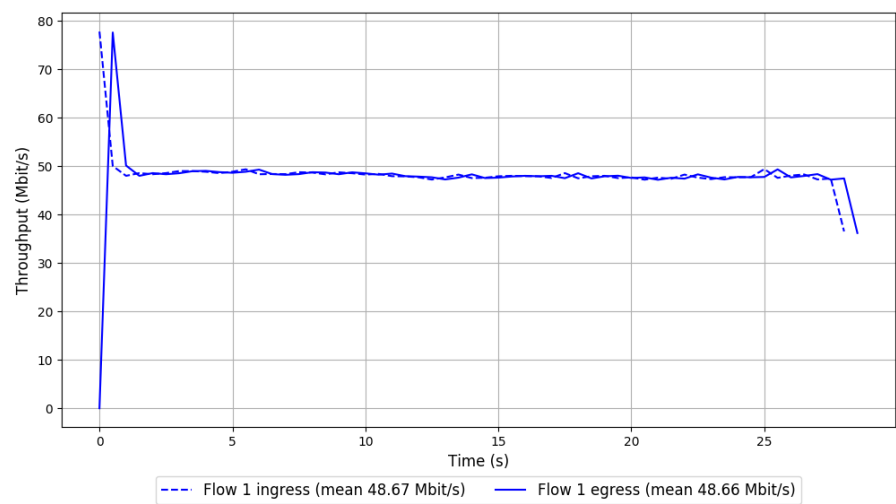
-- Flow 1:

Average throughput: 48.66 Mbit/s

95th percentile per-packet one-way delay: 3.139 ms

Loss rate: 0.02%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-08-27 05:59:00

End at: 2019-08-27 05:59:30

Local clock offset: -0.386 ms

Remote clock offset: 0.221 ms

Below is generated by plot.py at 2019-08-27 07:55:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.83 Mbit/s

95th percentile per-packet one-way delay: 1.957 ms

Loss rate: 0.00%

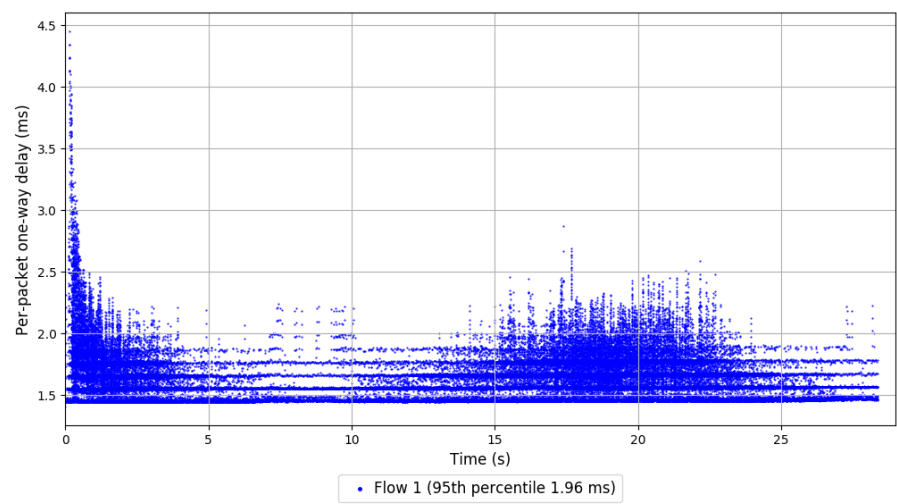
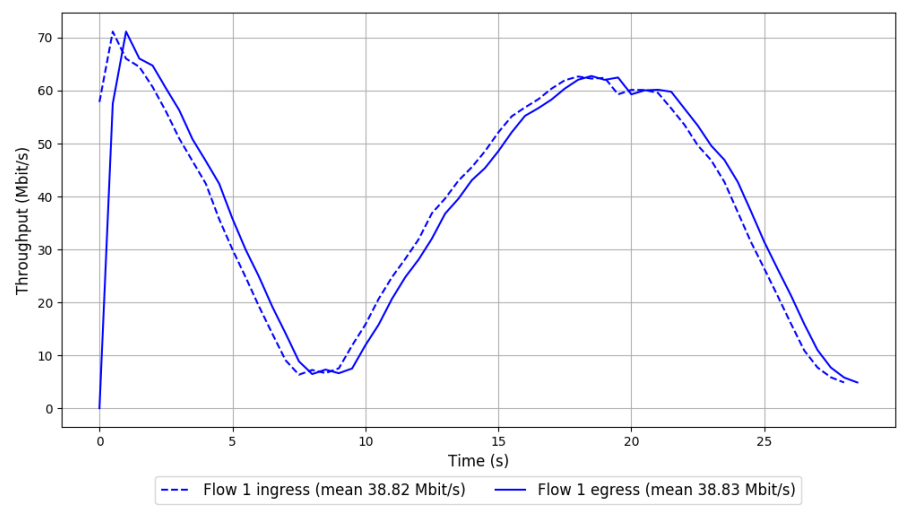
-- Flow 1:

Average throughput: 38.83 Mbit/s

95th percentile per-packet one-way delay: 1.957 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-08-27 06:25:54

End at: 2019-08-27 06:26:24

Local clock offset: 0.353 ms

Remote clock offset: 0.613 ms

Below is generated by plot.py at 2019-08-27 07:55:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.86 Mbit/s

95th percentile per-packet one-way delay: 2.671 ms

Loss rate: 0.00%

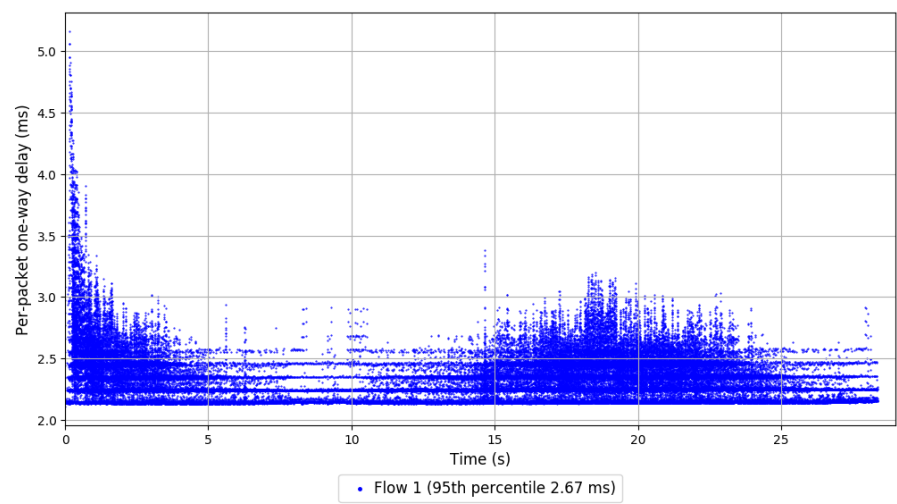
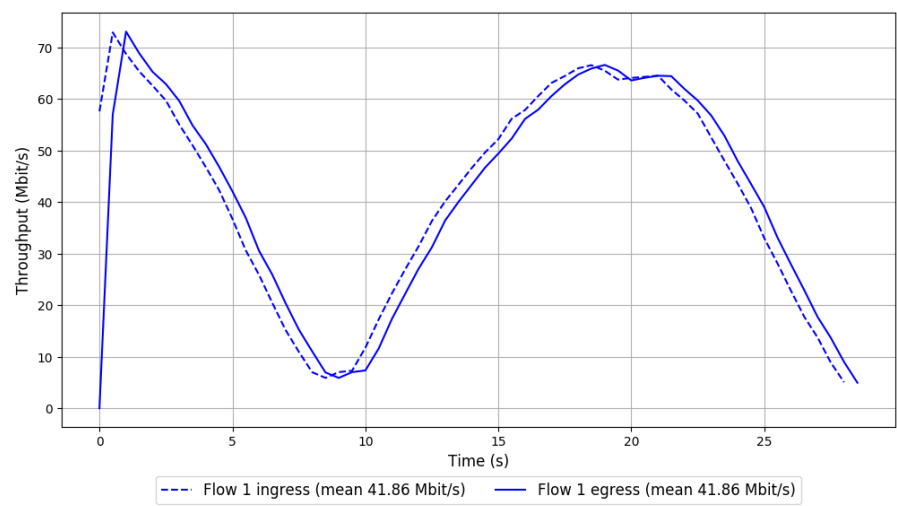
-- Flow 1:

Average throughput: 41.86 Mbit/s

95th percentile per-packet one-way delay: 2.671 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-08-27 06:52:51

End at: 2019-08-27 06:53:21

Local clock offset: -0.501 ms

Remote clock offset: 0.881 ms

Below is generated by plot.py at 2019-08-27 07:55:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.06 Mbit/s

95th percentile per-packet one-way delay: 3.253 ms

Loss rate: 0.01%

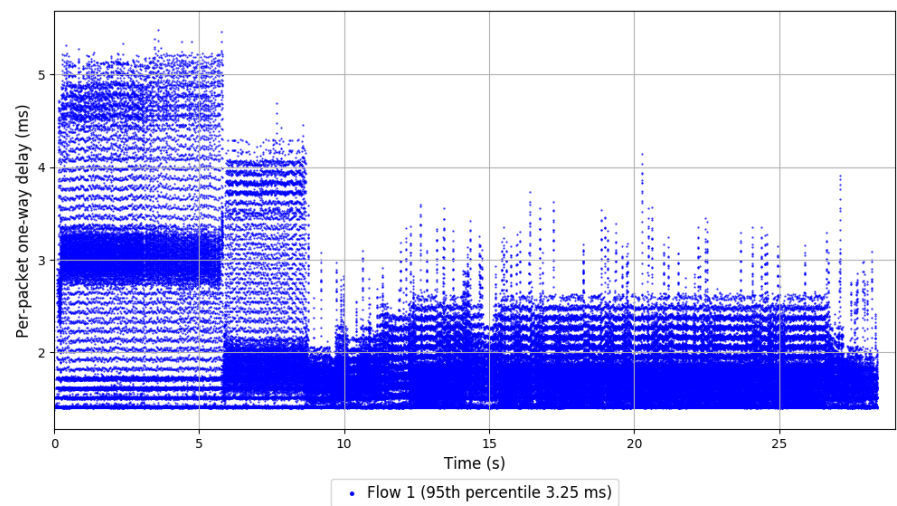
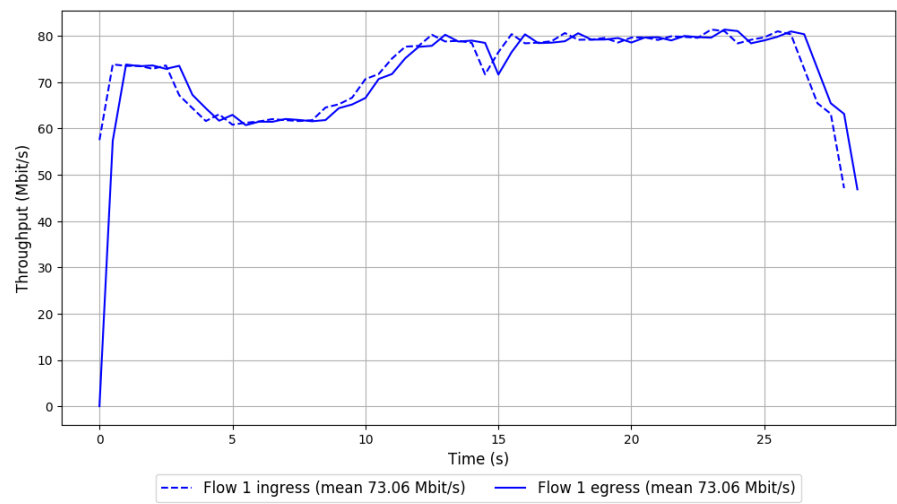
-- Flow 1:

Average throughput: 73.06 Mbit/s

95th percentile per-packet one-way delay: 3.253 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-08-27 07:19:49

End at: 2019-08-27 07:20:19

Local clock offset: -0.524 ms

Remote clock offset: 0.903 ms

Below is generated by plot.py at 2019-08-27 07:55:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.71 Mbit/s

95th percentile per-packet one-way delay: 3.090 ms

Loss rate: 0.02%

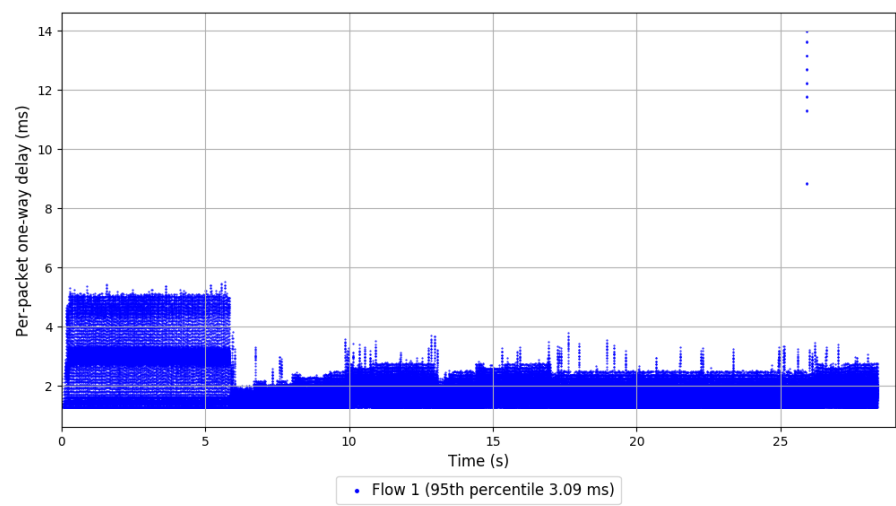
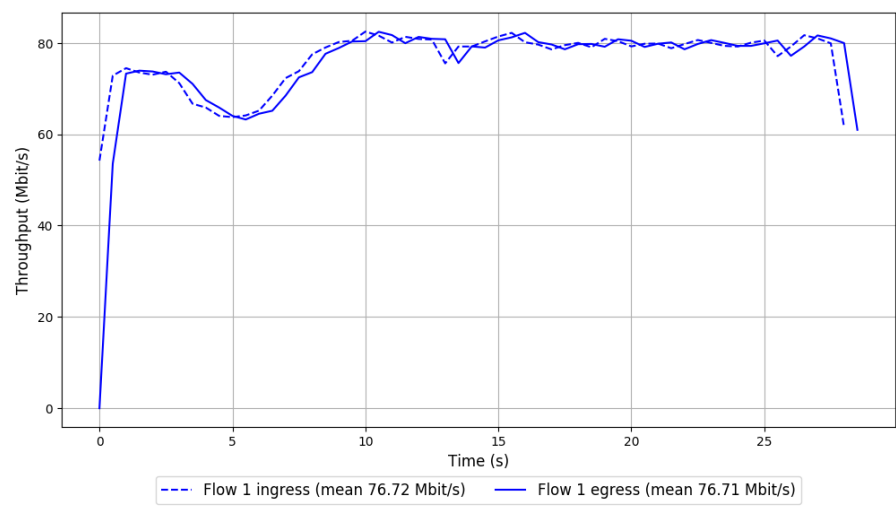
-- Flow 1:

Average throughput: 76.71 Mbit/s

95th percentile per-packet one-way delay: 3.090 ms

Loss rate: 0.02%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-08-27 07:46:47

End at: 2019-08-27 07:47:17

Local clock offset: -0.624 ms

Remote clock offset: 0.785 ms

Below is generated by plot.py at 2019-08-27 07:55:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.64 Mbit/s

95th percentile per-packet one-way delay: 1.814 ms

Loss rate: 0.00%

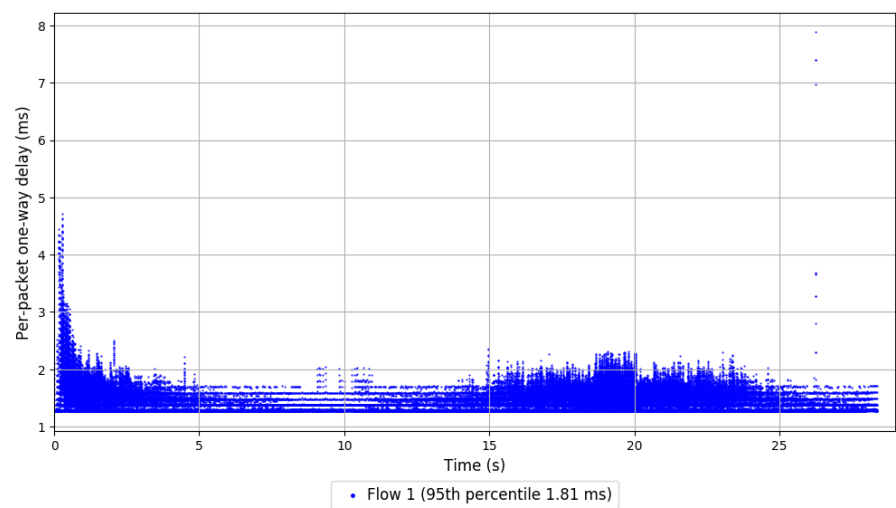
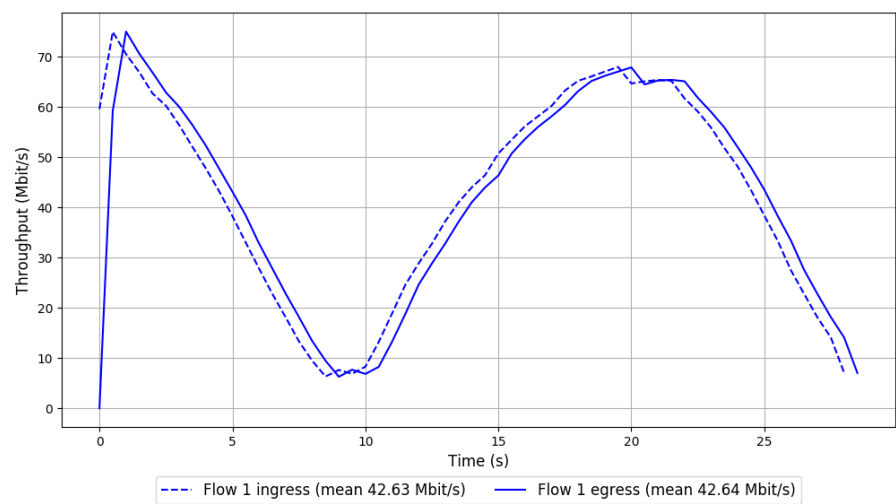
-- Flow 1:

Average throughput: 42.64 Mbit/s

95th percentile per-packet one-way delay: 1.814 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-08-27 05:53:22

End at: 2019-08-27 05:53:52

Local clock offset: 0.318 ms

Remote clock offset: 0.057 ms

Below is generated by plot.py at 2019-08-27 07:55:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.95 Mbit/s

95th percentile per-packet one-way delay: 3.019 ms

Loss rate: 0.02%

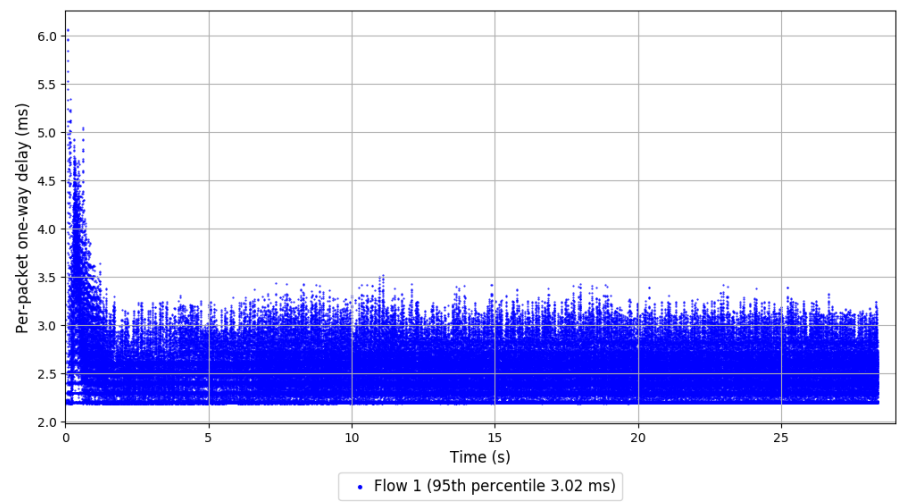
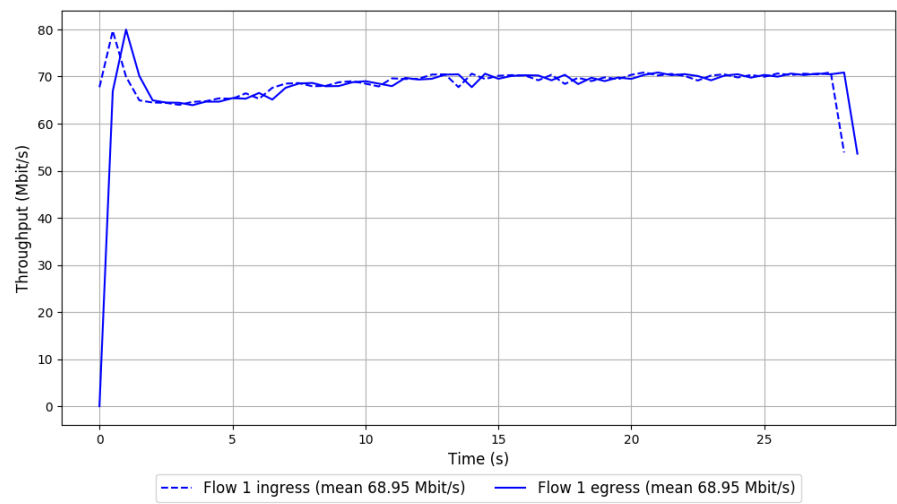
-- Flow 1:

Average throughput: 68.95 Mbit/s

95th percentile per-packet one-way delay: 3.019 ms

Loss rate: 0.02%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-08-27 06:20:16

End at: 2019-08-27 06:20:46

Local clock offset: -0.474 ms

Remote clock offset: 0.593 ms

Below is generated by plot.py at 2019-08-27 07:55:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.55 Mbit/s

95th percentile per-packet one-way delay: 2.505 ms

Loss rate: 0.02%

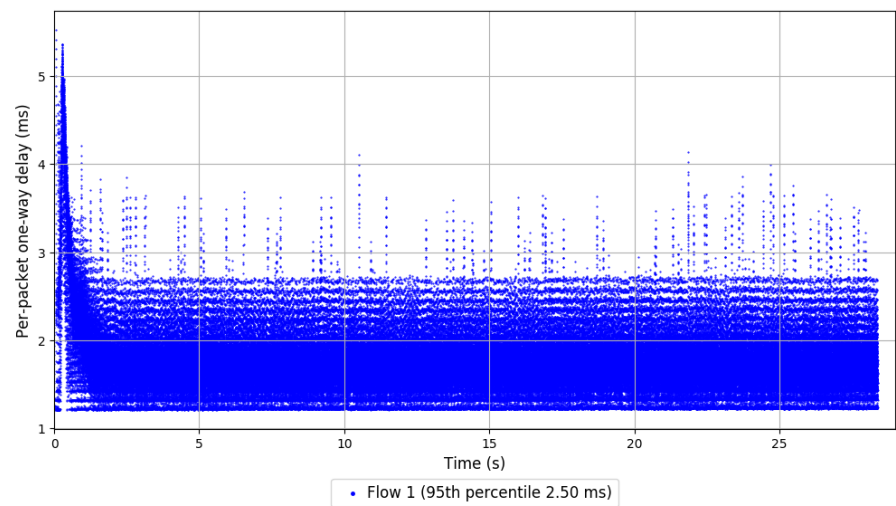
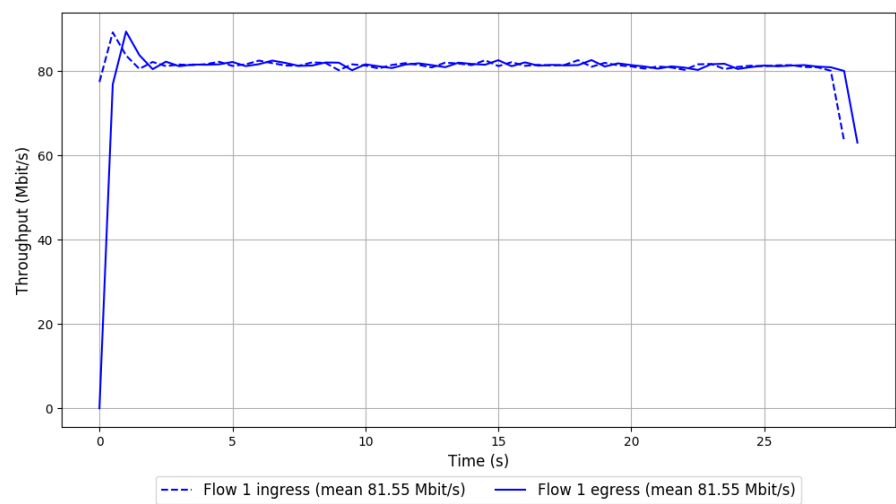
-- Flow 1:

Average throughput: 81.55 Mbit/s

95th percentile per-packet one-way delay: 2.505 ms

Loss rate: 0.02%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-08-27 06:47:13

End at: 2019-08-27 06:47:43

Local clock offset: 0.285 ms

Remote clock offset: 0.853 ms

Below is generated by plot.py at 2019-08-27 07:55:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.19 Mbit/s

95th percentile per-packet one-way delay: 3.037 ms

Loss rate: 0.02%

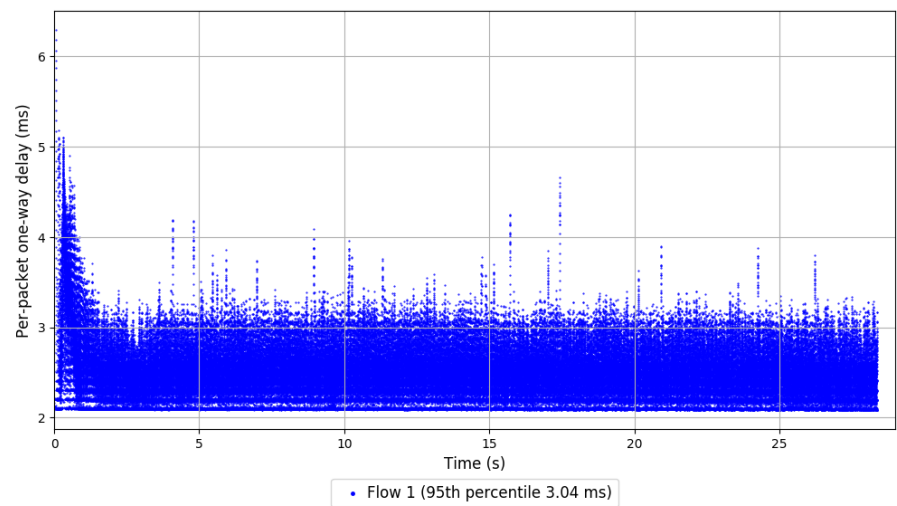
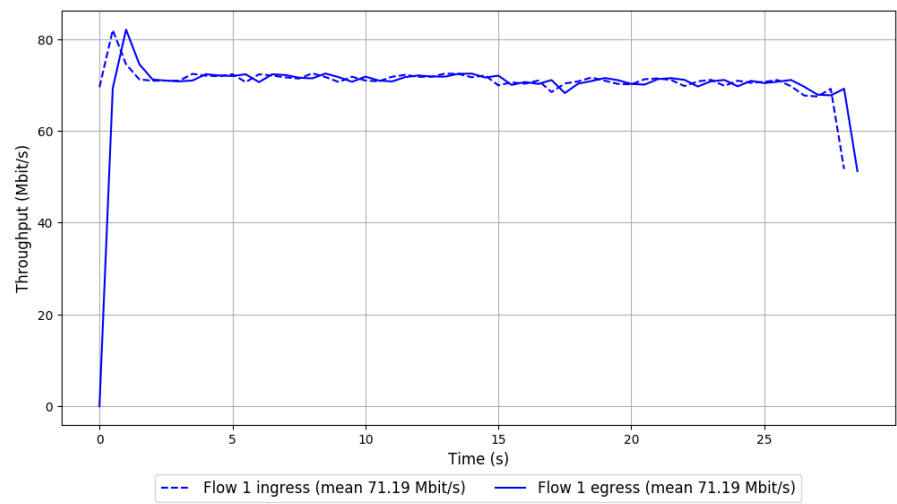
-- Flow 1:

Average throughput: 71.19 Mbit/s

95th percentile per-packet one-way delay: 3.037 ms

Loss rate: 0.02%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-08-27 07:14:11

End at: 2019-08-27 07:14:41

Local clock offset: -0.525 ms

Remote clock offset: 0.857 ms

Below is generated by plot.py at 2019-08-27 07:56:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.52 Mbit/s

95th percentile per-packet one-way delay: 2.134 ms

Loss rate: 0.02%

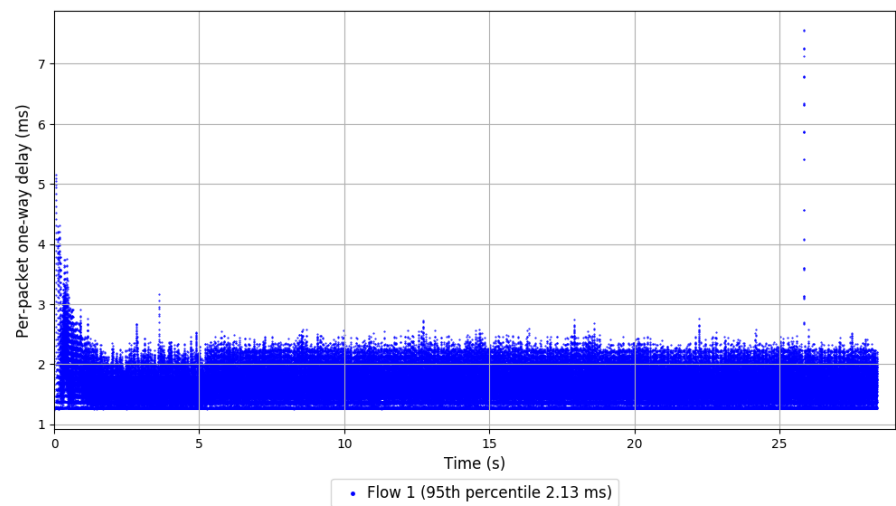
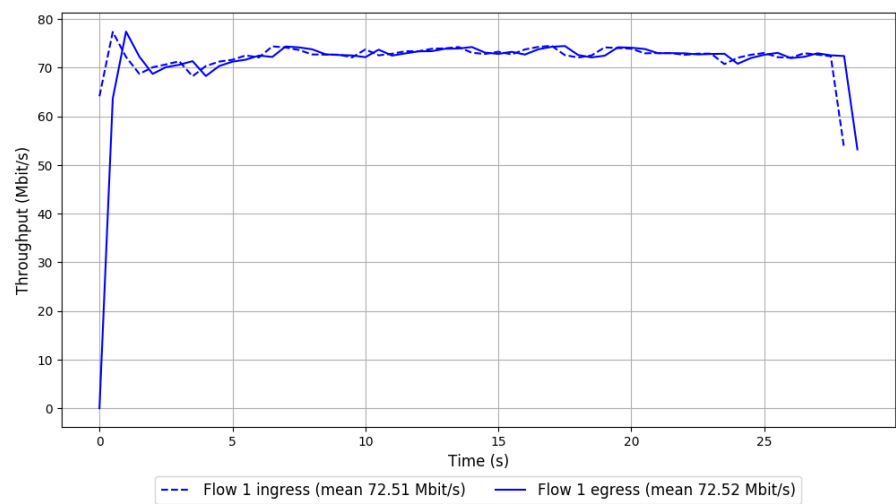
-- Flow 1:

Average throughput: 72.52 Mbit/s

95th percentile per-packet one-way delay: 2.134 ms

Loss rate: 0.02%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-08-27 07:41:09

End at: 2019-08-27 07:41:39

Local clock offset: 0.108 ms

Remote clock offset: 0.82 ms

Below is generated by plot.py at 2019-08-27 07:56:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.94 Mbit/s

95th percentile per-packet one-way delay: 2.959 ms

Loss rate: 0.02%

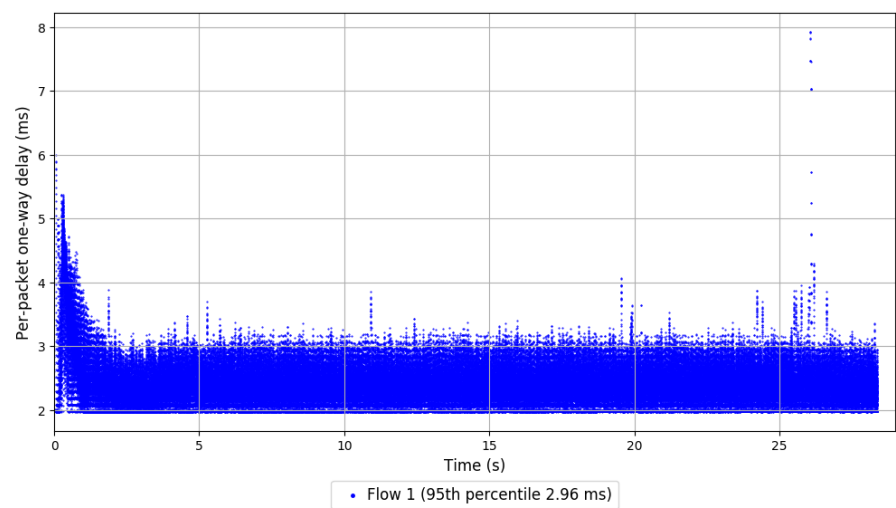
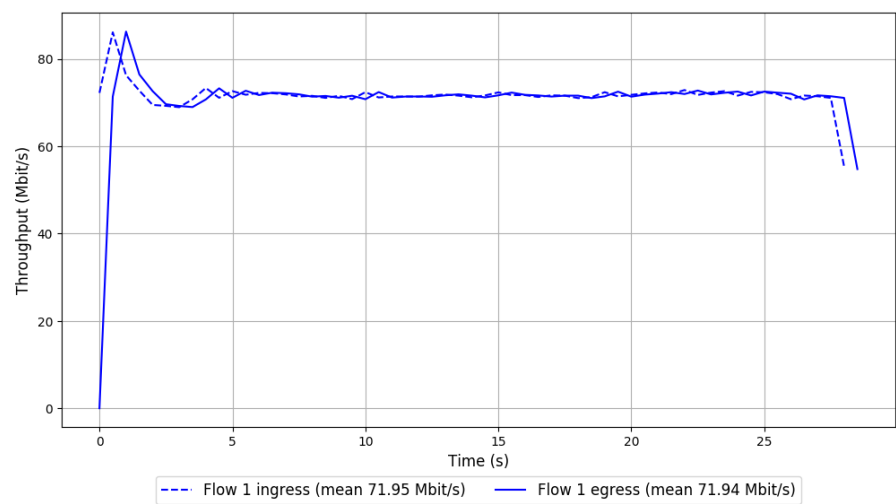
-- Flow 1:

Average throughput: 71.94 Mbit/s

95th percentile per-packet one-way delay: 2.959 ms

Loss rate: 0.02%

Run 5: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2019-08-27 05:56:43

End at: 2019-08-27 05:57:13

Local clock offset: 0.31 ms

Remote clock offset: 0.152 ms

Below is generated by plot.py at 2019-08-27 07:56:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.00 Mbit/s

95th percentile per-packet one-way delay: 10.429 ms

Loss rate: 0.07%

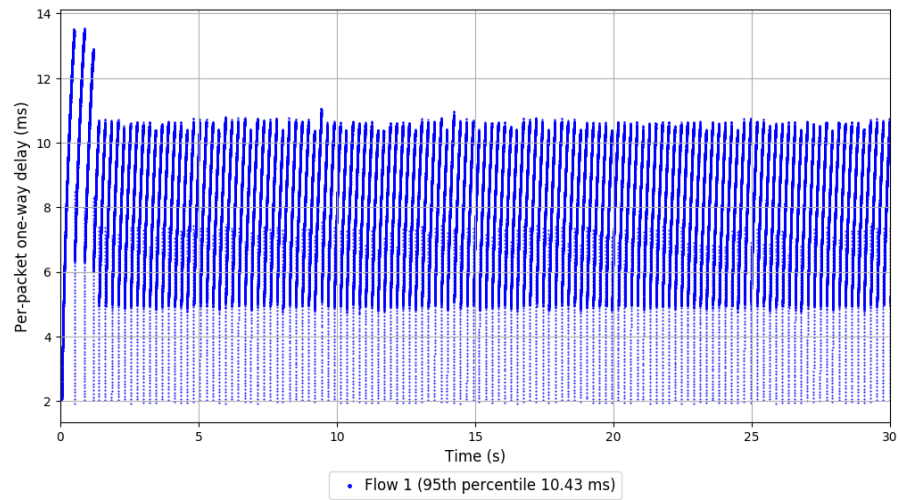
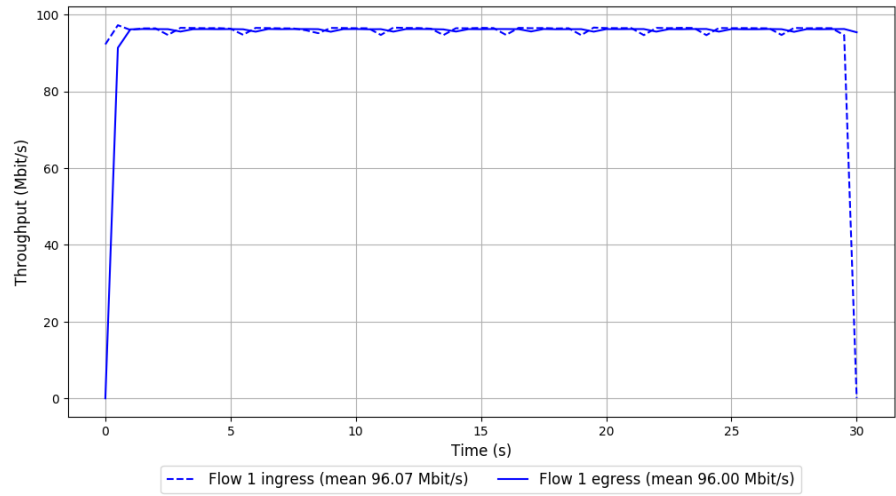
-- Flow 1:

Average throughput: 96.00 Mbit/s

95th percentile per-packet one-way delay: 10.429 ms

Loss rate: 0.07%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-08-27 06:23:37

End at: 2019-08-27 06:24:07

Local clock offset: -0.403 ms

Remote clock offset: 0.567 ms

Below is generated by plot.py at 2019-08-27 07:57:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.65 Mbit/s

95th percentile per-packet one-way delay: 9.609 ms

Loss rate: 0.08%

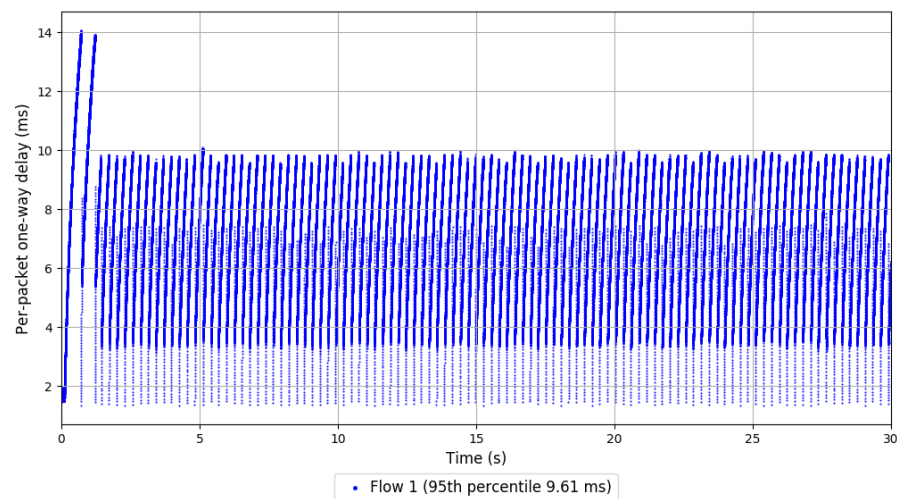
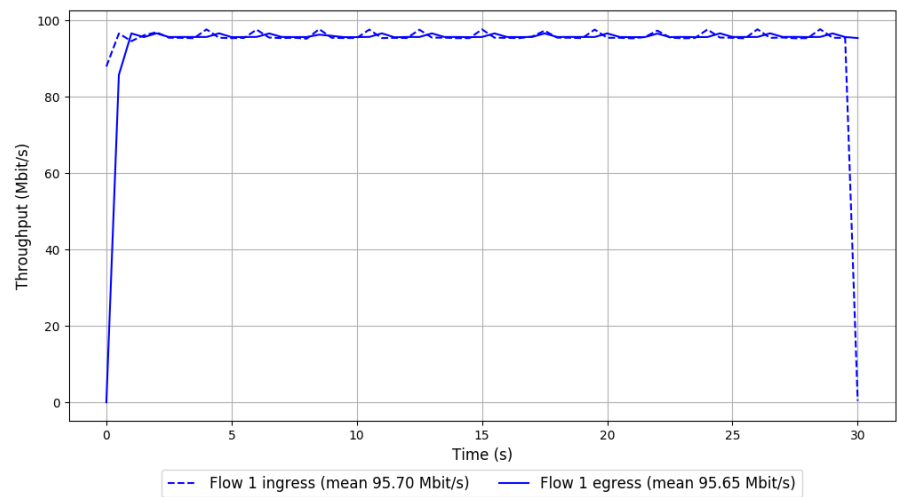
-- Flow 1:

Average throughput: 95.65 Mbit/s

95th percentile per-packet one-way delay: 9.609 ms

Loss rate: 0.08%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-08-27 06:50:33

End at: 2019-08-27 06:51:03

Local clock offset: 0.281 ms

Remote clock offset: 0.963 ms

Below is generated by plot.py at 2019-08-27 07:57:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.65 Mbit/s

95th percentile per-packet one-way delay: 10.182 ms

Loss rate: 0.08%

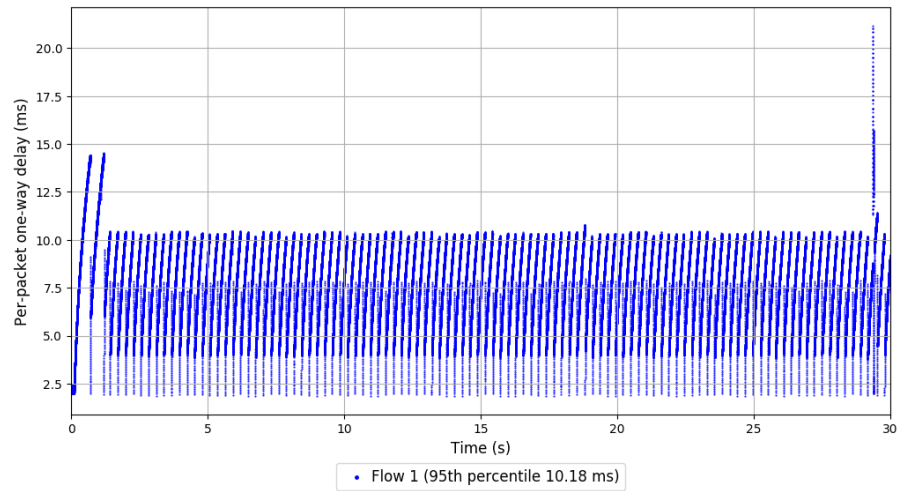
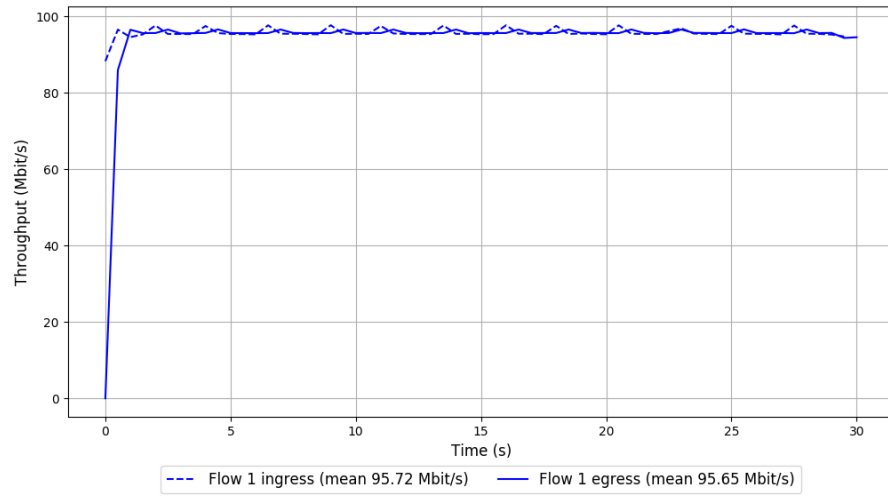
-- Flow 1:

Average throughput: 95.65 Mbit/s

95th percentile per-packet one-way delay: 10.182 ms

Loss rate: 0.08%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-08-27 07:17:31

End at: 2019-08-27 07:18:01

Local clock offset: -0.596 ms

Remote clock offset: 0.834 ms

Below is generated by plot.py at 2019-08-27 07:57:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.94 Mbit/s

95th percentile per-packet one-way delay: 9.698 ms

Loss rate: 0.08%

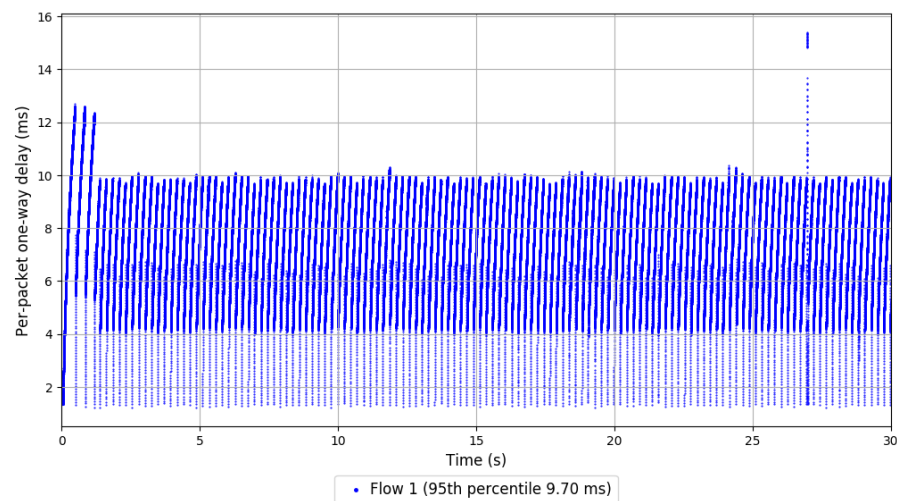
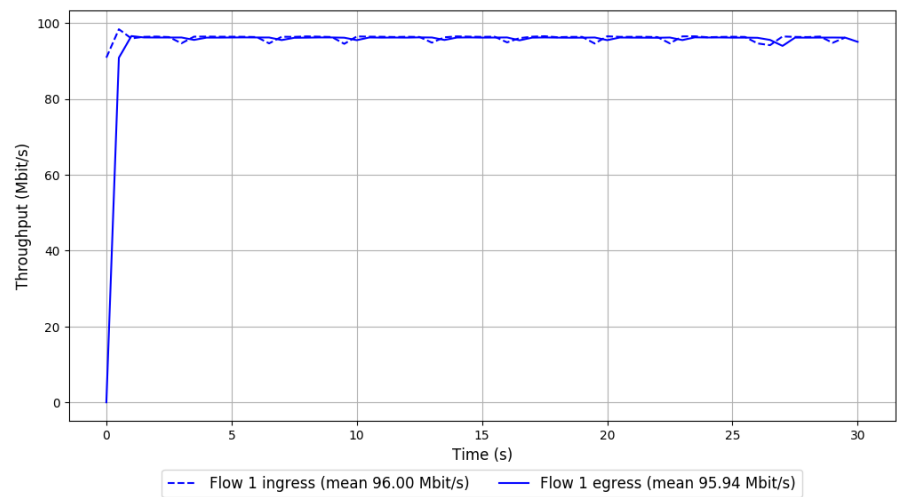
-- Flow 1:

Average throughput: 95.94 Mbit/s

95th percentile per-packet one-way delay: 9.698 ms

Loss rate: 0.08%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-08-27 07:44:30

End at: 2019-08-27 07:45:00

Local clock offset: 0.168 ms

Remote clock offset: 0.72 ms

Below is generated by plot.py at 2019-08-27 07:57:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.00 Mbit/s

95th percentile per-packet one-way delay: 10.615 ms

Loss rate: 0.08%

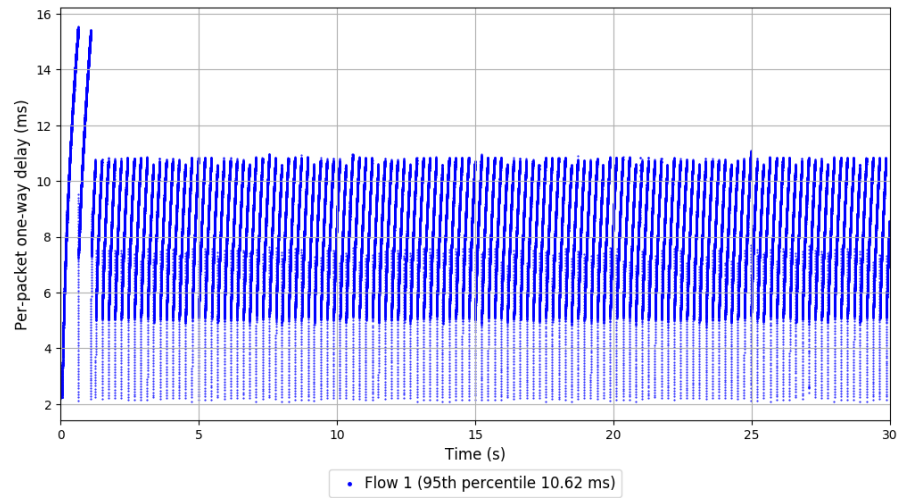
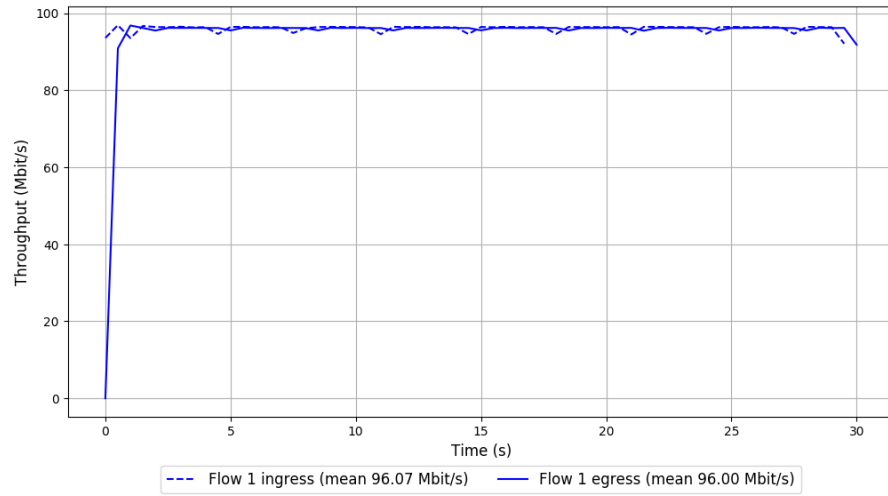
-- Flow 1:

Average throughput: 96.00 Mbit/s

95th percentile per-packet one-way delay: 10.615 ms

Loss rate: 0.08%

Run 5: Report of LEDBAT — Data Link

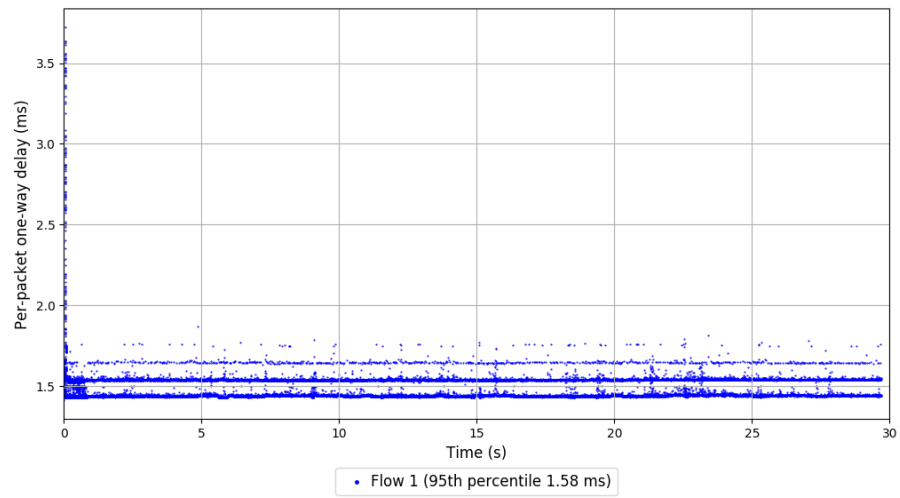
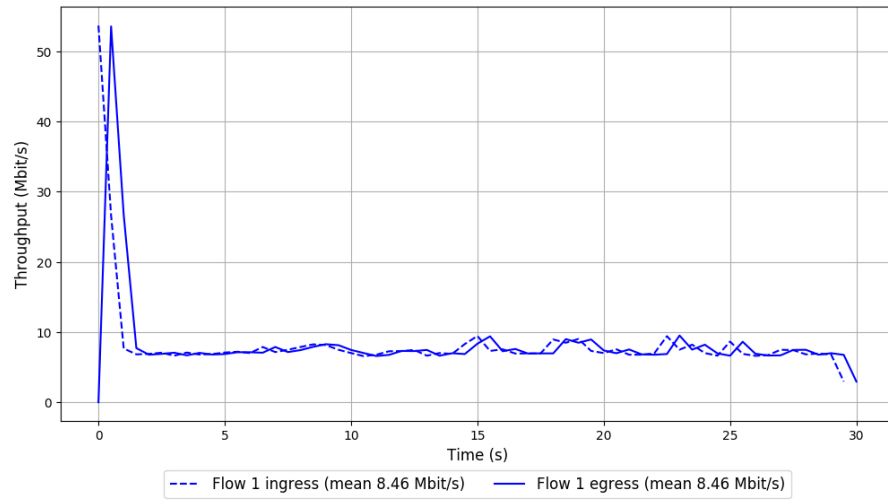


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-08-27 05:44:17
End at: 2019-08-27 05:44:47
Local clock offset: -0.4 ms
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2019-08-27 07:57:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.46 Mbit/s
95th percentile per-packet one-way delay: 1.583 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 8.46 Mbit/s
95th percentile per-packet one-way delay: 1.583 ms
Loss rate: 0.01%
```

Run 1: Report of Muses_DecisionTree — Data Link



Run 2: Statistics of Muses_DecisionTree

Start at: 2019-08-27 06:11:14

End at: 2019-08-27 06:11:44

Local clock offset: -0.395 ms

Remote clock offset: 0.465 ms

Below is generated by plot.py at 2019-08-27 07:57:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.03 Mbit/s

95th percentile per-packet one-way delay: 1.500 ms

Loss rate: 0.01%

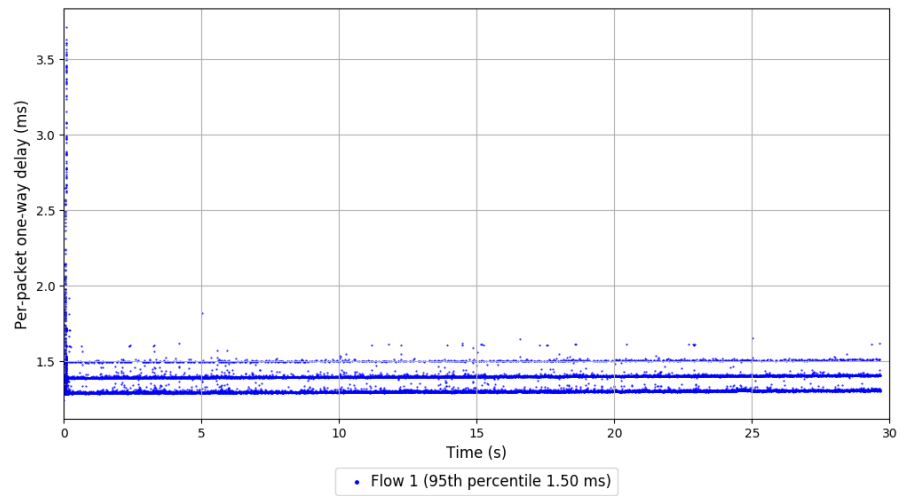
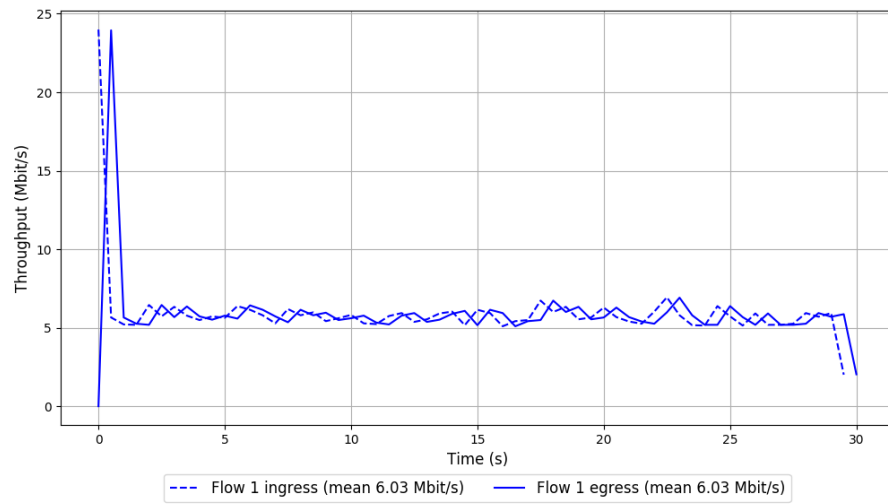
-- Flow 1:

Average throughput: 6.03 Mbit/s

95th percentile per-packet one-way delay: 1.500 ms

Loss rate: 0.01%

Run 2: Report of Muses_DecisionTree — Data Link



Run 3: Statistics of Muses_DecisionTree

Start at: 2019-08-27 06:38:09

End at: 2019-08-27 06:38:39

Local clock offset: -0.526 ms

Remote clock offset: 0.873 ms

Below is generated by plot.py at 2019-08-27 07:57:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.79 Mbit/s

95th percentile per-packet one-way delay: 1.432 ms

Loss rate: 0.02%

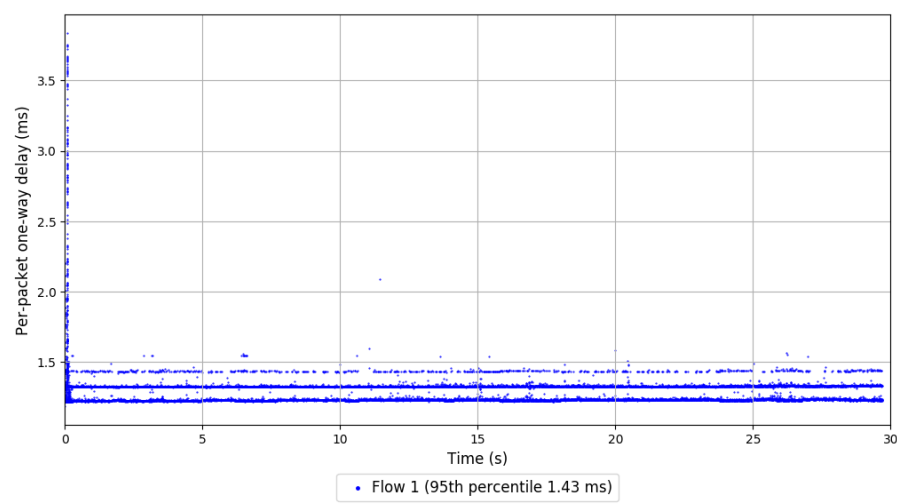
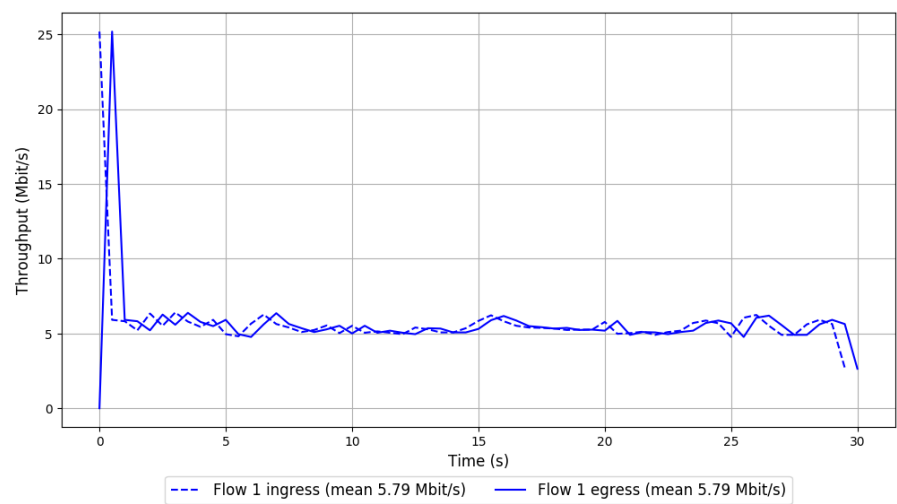
-- Flow 1:

Average throughput: 5.79 Mbit/s

95th percentile per-packet one-way delay: 1.432 ms

Loss rate: 0.02%

Run 3: Report of Muses_DecisionTree — Data Link



Run 4: Statistics of Muses_DecisionTree

Start at: 2019-08-27 07:05:07

End at: 2019-08-27 07:05:37

Local clock offset: 0.232 ms

Remote clock offset: 0.922 ms

Below is generated by plot.py at 2019-08-27 07:57:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.70 Mbit/s

95th percentile per-packet one-way delay: 2.096 ms

Loss rate: 0.01%

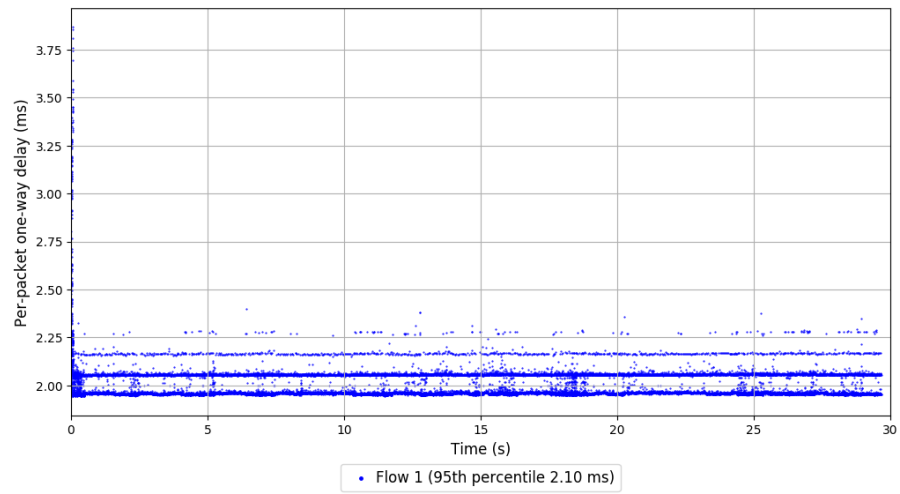
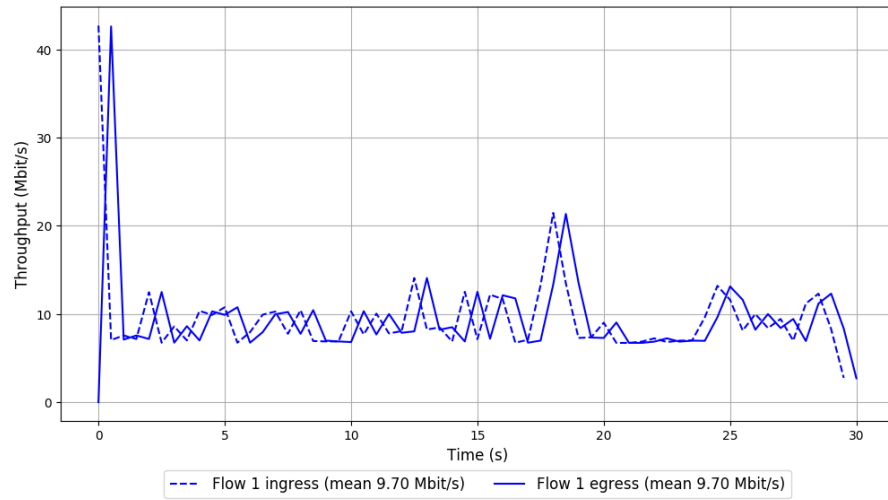
-- Flow 1:

Average throughput: 9.70 Mbit/s

95th percentile per-packet one-way delay: 2.096 ms

Loss rate: 0.01%

Run 4: Report of Muses_DecisionTree — Data Link



Run 5: Statistics of Muses_DecisionTree

Start at: 2019-08-27 07:32:07

End at: 2019-08-27 07:32:37

Local clock offset: -0.617 ms

Remote clock offset: 0.786 ms

Below is generated by plot.py at 2019-08-27 07:57:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.85 Mbit/s

95th percentile per-packet one-way delay: 1.519 ms

Loss rate: 0.03%

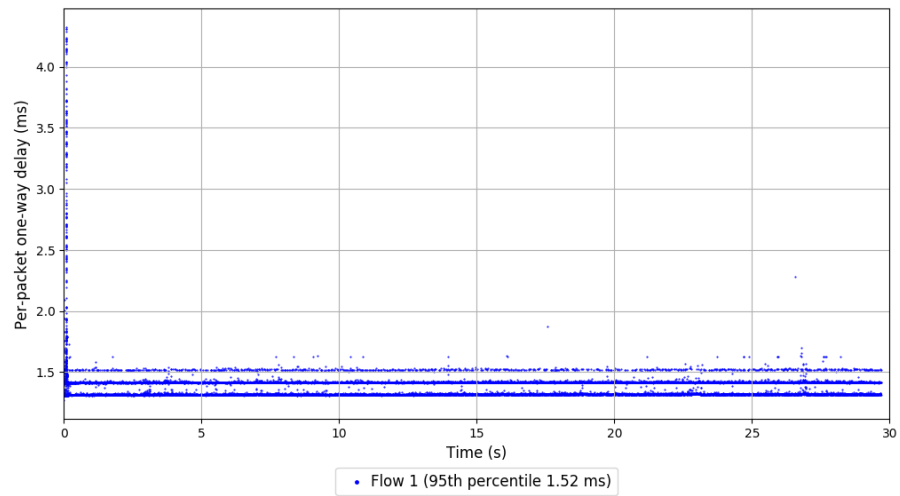
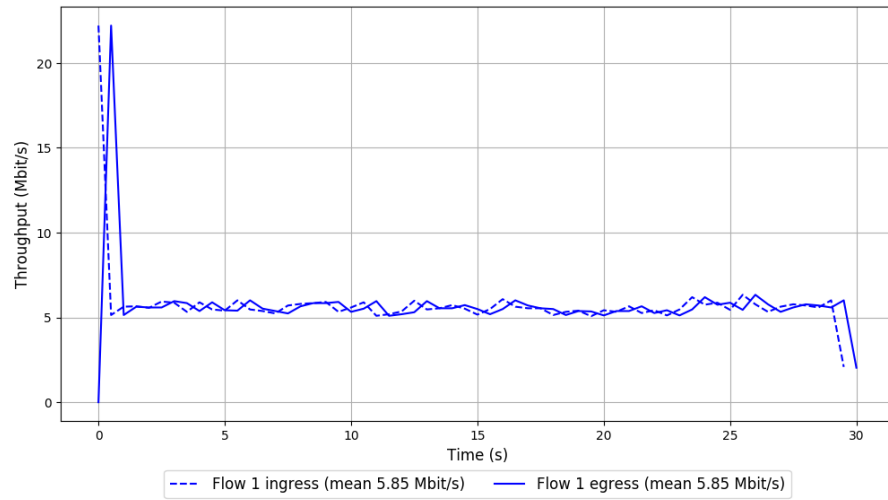
-- Flow 1:

Average throughput: 5.85 Mbit/s

95th percentile per-packet one-way delay: 1.519 ms

Loss rate: 0.03%

Run 5: Report of Muses_DecisionTree — Data Link



Run 1: Statistics of Muses_DecisionTreeH0

Start at: 2019-08-27 05:42:07
End at: 2019-08-27 05:42:37
Local clock offset: 0.313 ms
Remote clock offset: -0.097 ms

Below is generated by plot.py at 2019-08-27 07:57:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.03 Mbit/s

95th percentile per-packet one-way delay: 2.291 ms

Loss rate: 0.02%

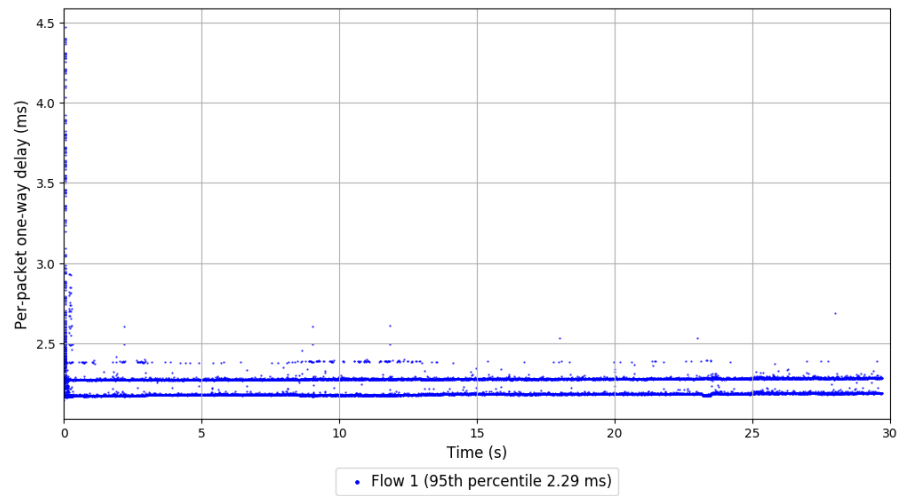
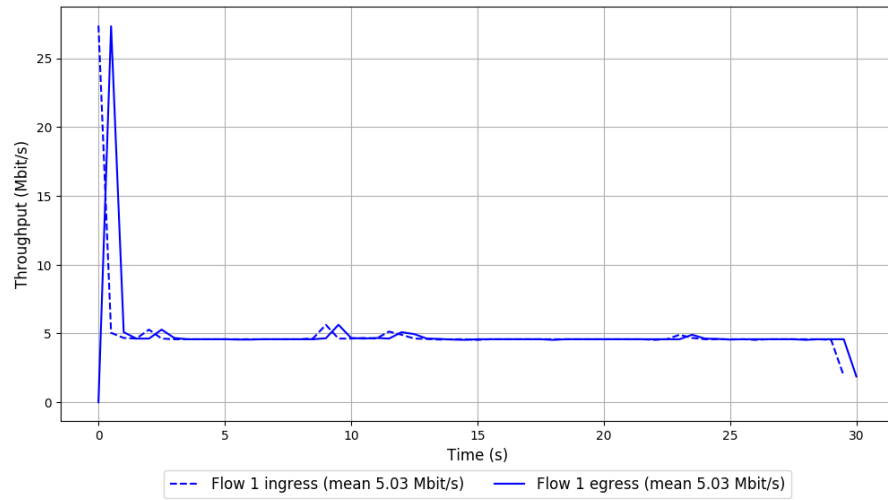
-- Flow 1:

Average throughput: 5.03 Mbit/s

95th percentile per-packet one-way delay: 2.291 ms

Loss rate: 0.02%

Run 1: Report of Muses_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2019-08-27 06:09:03

End at: 2019-08-27 06:09:33

Local clock offset: 0.357 ms

Remote clock offset: 0.425 ms

Below is generated by plot.py at 2019-08-27 07:57:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.27 Mbit/s

95th percentile per-packet one-way delay: 2.270 ms

Loss rate: 0.01%

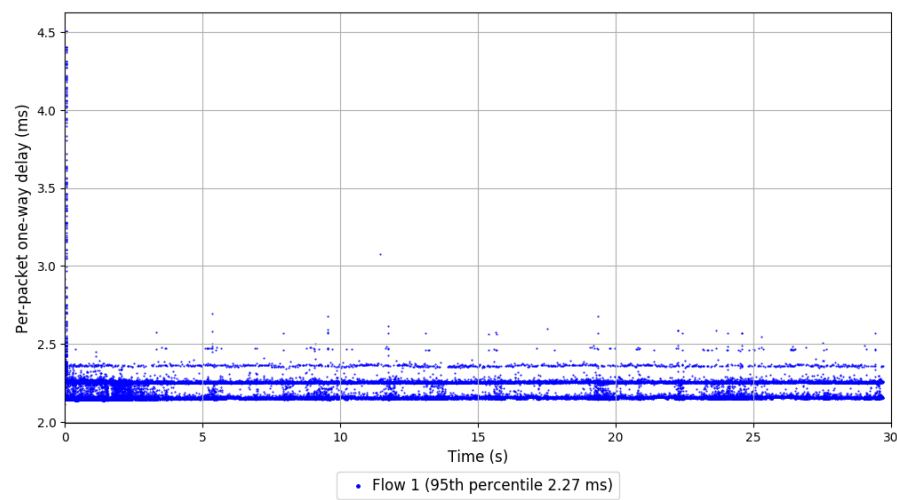
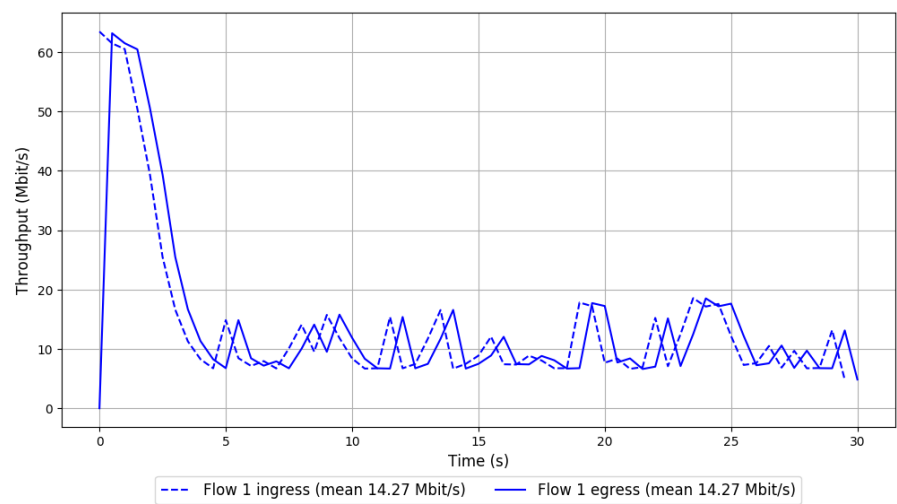
-- Flow 1:

Average throughput: 14.27 Mbit/s

95th percentile per-packet one-way delay: 2.270 ms

Loss rate: 0.01%

Run 2: Report of Muses_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2019-08-27 06:35:58

End at: 2019-08-27 06:36:28

Local clock offset: 0.273 ms

Remote clock offset: 0.864 ms

Below is generated by plot.py at 2019-08-27 07:57:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.10 Mbit/s

95th percentile per-packet one-way delay: 2.200 ms

Loss rate: 0.02%

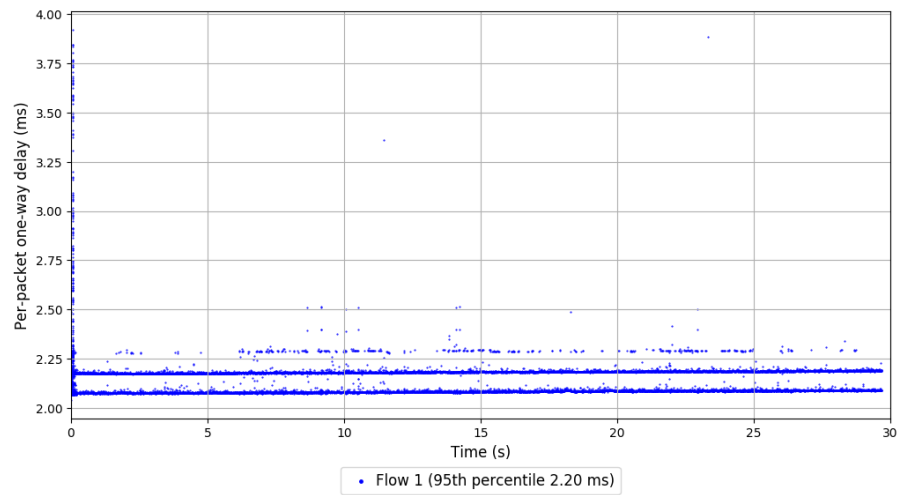
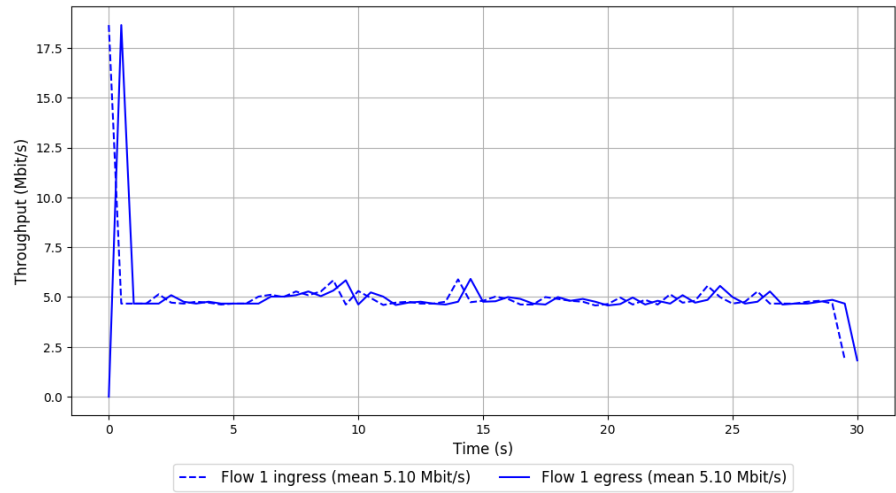
-- Flow 1:

Average throughput: 5.10 Mbit/s

95th percentile per-packet one-way delay: 2.200 ms

Loss rate: 0.02%

Run 3: Report of Muses_DecisionTreeH0 — Data Link



Run 4: Statistics of Muses_DecisionTreeH0

Start at: 2019-08-27 07:02:57

End at: 2019-08-27 07:03:27

Local clock offset: 0.236 ms

Remote clock offset: 0.877 ms

Below is generated by plot.py at 2019-08-27 07:57:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.62 Mbit/s

95th percentile per-packet one-way delay: 2.213 ms

Loss rate: 0.02%

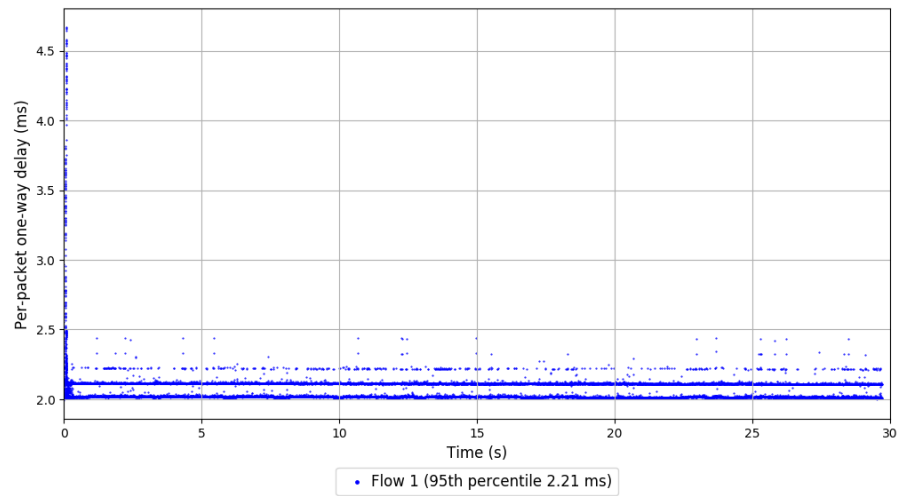
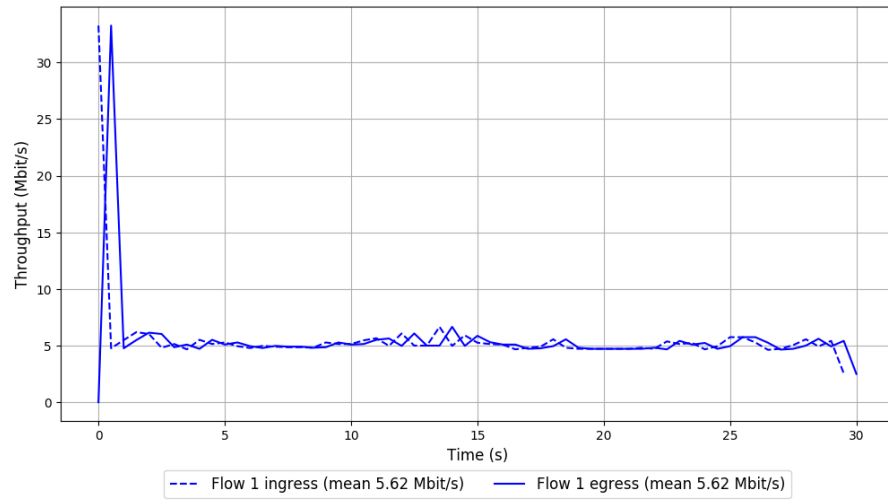
-- Flow 1:

Average throughput: 5.62 Mbit/s

95th percentile per-packet one-way delay: 2.213 ms

Loss rate: 0.02%

Run 4: Report of Muses_DecisionTreeH0 — Data Link



Run 5: Statistics of Muses_DecisionTreeH0

Start at: 2019-08-27 07:29:54

End at: 2019-08-27 07:30:24

Local clock offset: -0.547 ms

Remote clock offset: 0.839 ms

Below is generated by plot.py at 2019-08-27 07:57:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.49 Mbit/s

95th percentile per-packet one-way delay: 1.483 ms

Loss rate: 0.01%

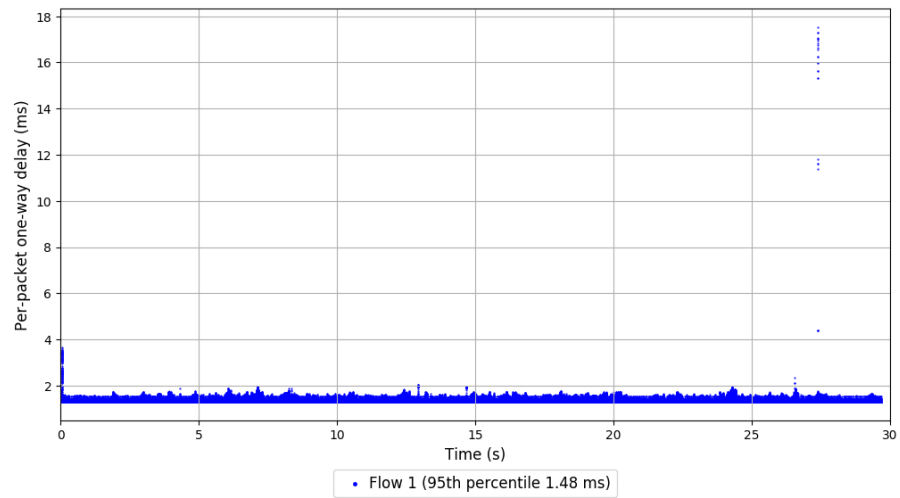
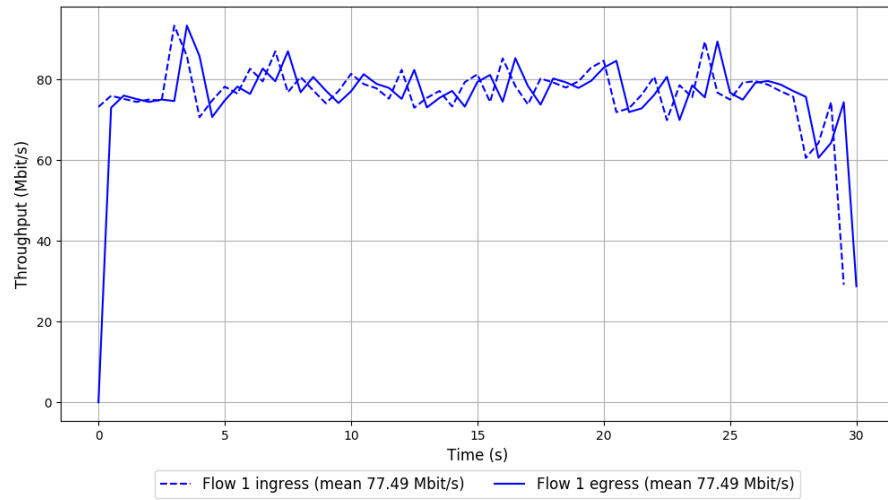
-- Flow 1:

Average throughput: 77.49 Mbit/s

95th percentile per-packet one-way delay: 1.483 ms

Loss rate: 0.01%

Run 5: Report of Muses_DecisionTreeH0 — Data Link

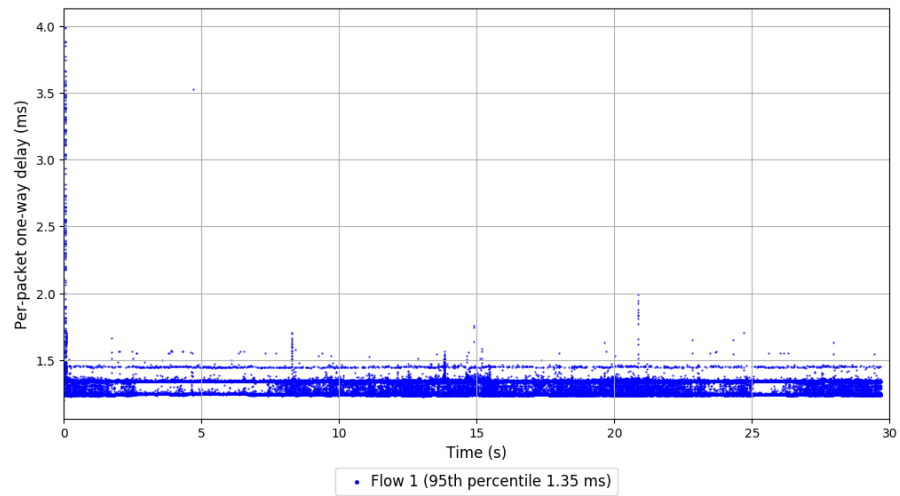
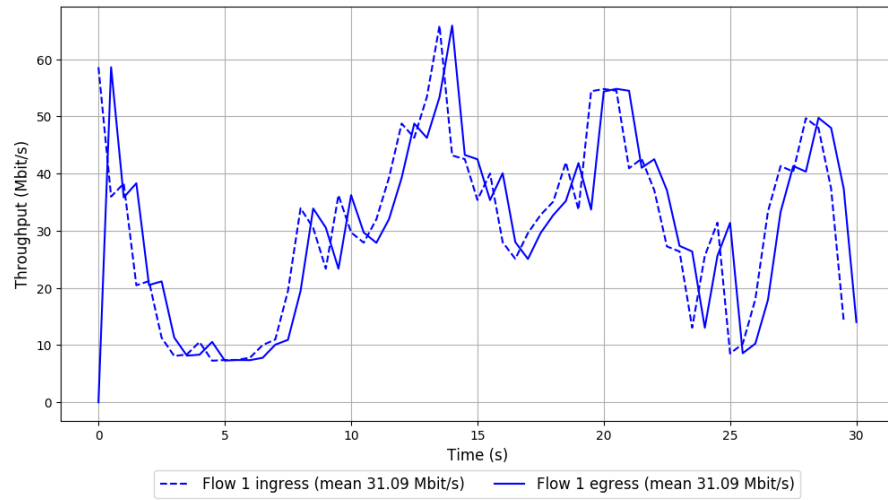


Run 1: Statistics of Muses_DecisionTreeR0

Start at: 2019-08-27 05:41:01
End at: 2019-08-27 05:41:31
Local clock offset: -0.424 ms
Remote clock offset: -0.006 ms

Below is generated by plot.py at 2019-08-27 07:57:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 31.09 Mbit/s
95th percentile per-packet one-way delay: 1.347 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 31.09 Mbit/s
95th percentile per-packet one-way delay: 1.347 ms
Loss rate: 0.01%

Run 1: Report of Muses_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2019-08-27 06:07:59

End at: 2019-08-27 06:08:29

Local clock offset: 0.369 ms

Remote clock offset: 0.393 ms

Below is generated by plot.py at 2019-08-27 07:57:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.43 Mbit/s

95th percentile per-packet one-way delay: 2.289 ms

Loss rate: 0.01%

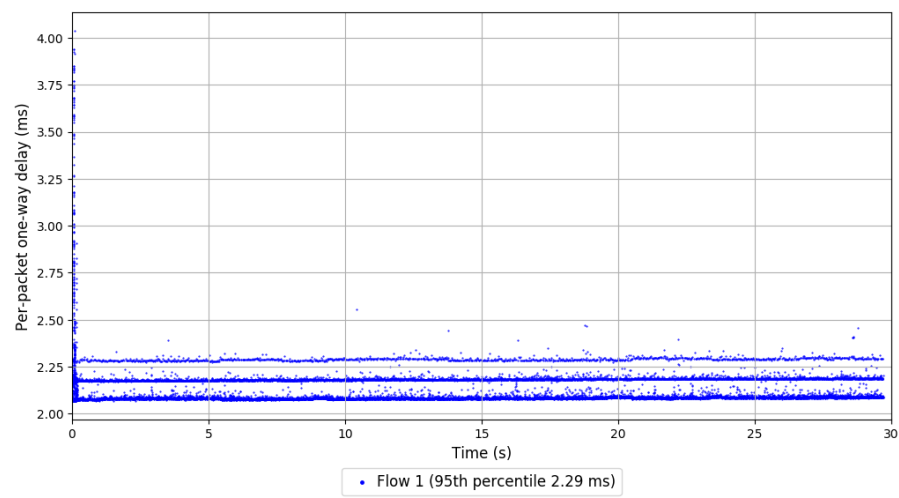
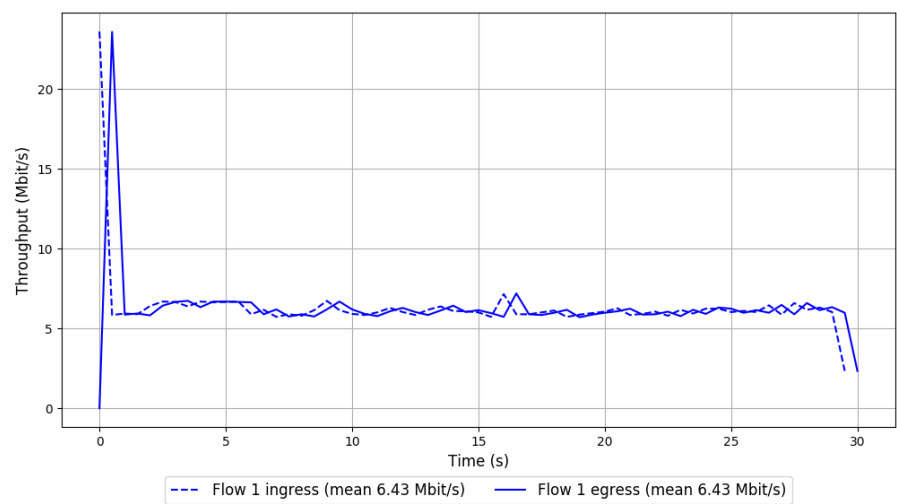
-- Flow 1:

Average throughput: 6.43 Mbit/s

95th percentile per-packet one-way delay: 2.289 ms

Loss rate: 0.01%

Run 2: Report of Muses_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-08-27 06:34:54

End at: 2019-08-27 06:35:24

Local clock offset: 0.312 ms

Remote clock offset: 0.818 ms

Below is generated by plot.py at 2019-08-27 07:57:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.26 Mbit/s

95th percentile per-packet one-way delay: 2.263 ms

Loss rate: 0.01%

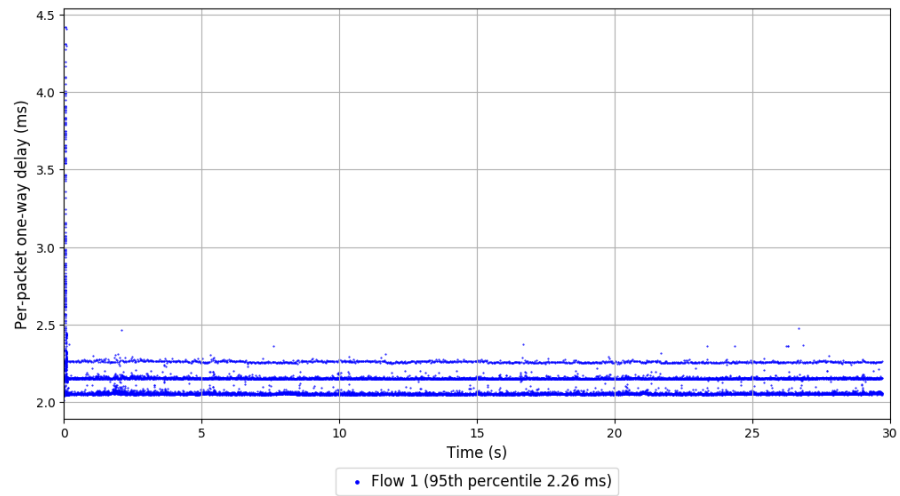
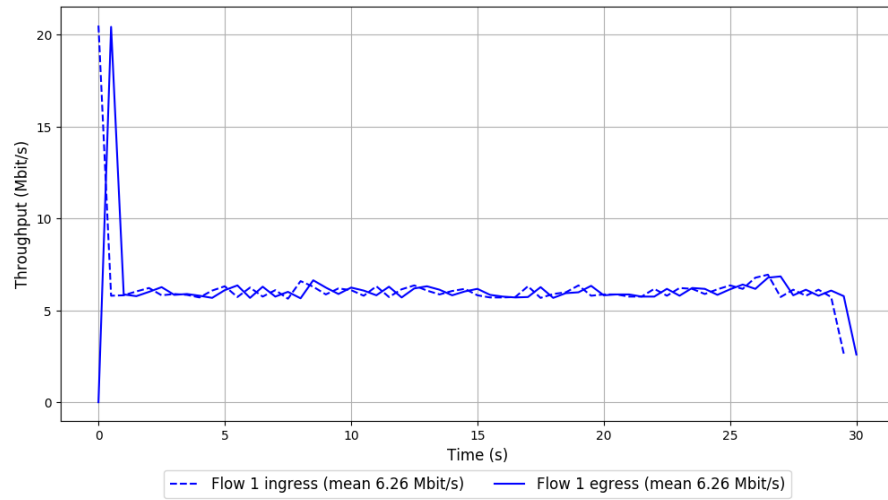
-- Flow 1:

Average throughput: 6.26 Mbit/s

95th percentile per-packet one-way delay: 2.263 ms

Loss rate: 0.01%

Run 3: Report of Muses_DecisionTreeR0 — Data Link



Run 4: Statistics of Muses_DecisionTreeR0

Start at: 2019-08-27 07:01:52

End at: 2019-08-27 07:02:22

Local clock offset: 0.31 ms

Remote clock offset: 0.886 ms

Below is generated by plot.py at 2019-08-27 07:57:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.04 Mbit/s

95th percentile per-packet one-way delay: 2.380 ms

Loss rate: 0.02%

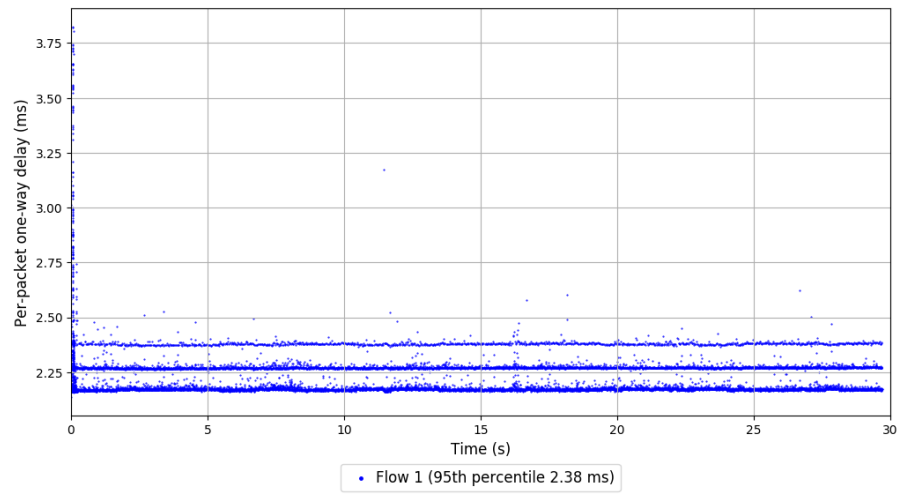
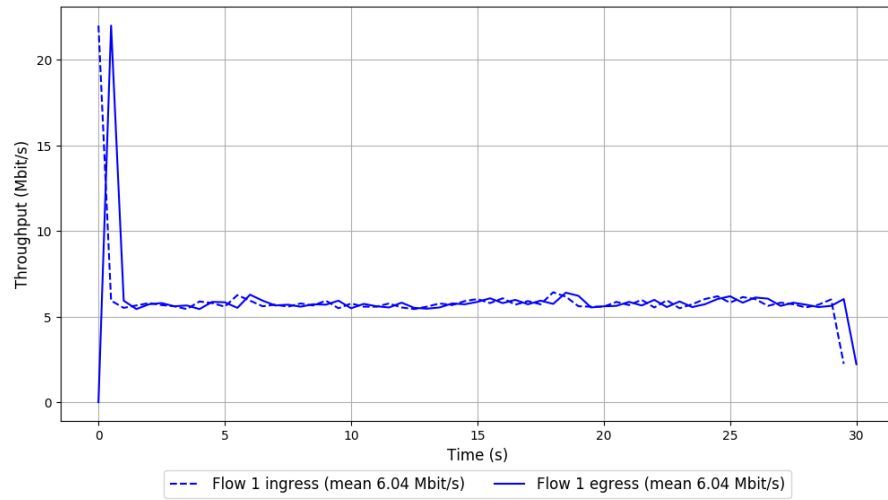
-- Flow 1:

Average throughput: 6.04 Mbit/s

95th percentile per-packet one-way delay: 2.380 ms

Loss rate: 0.02%

Run 4: Report of Muses_DecisionTreeR0 — Data Link



Run 5: Statistics of Muses_DecisionTreeR0

Start at: 2019-08-27 07:28:49

End at: 2019-08-27 07:29:19

Local clock offset: -0.541 ms

Remote clock offset: 0.813 ms

Below is generated by plot.py at 2019-08-27 07:57:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.71 Mbit/s

95th percentile per-packet one-way delay: 1.653 ms

Loss rate: 0.01%

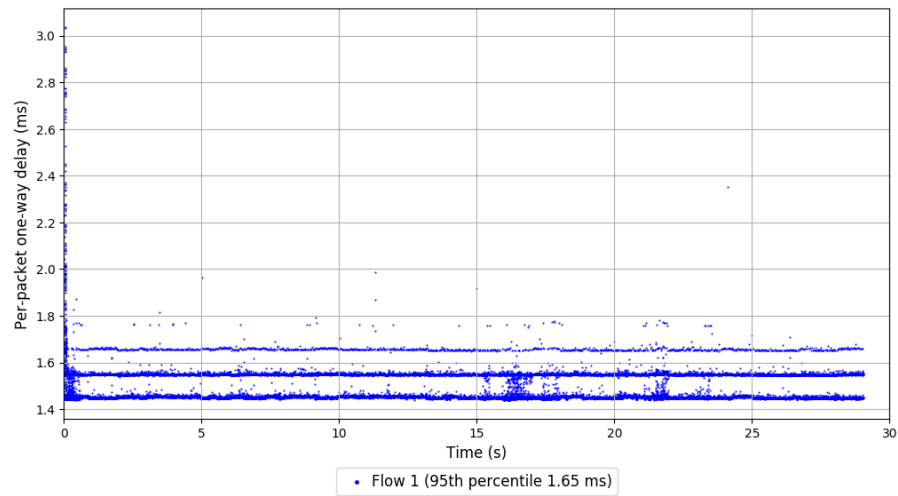
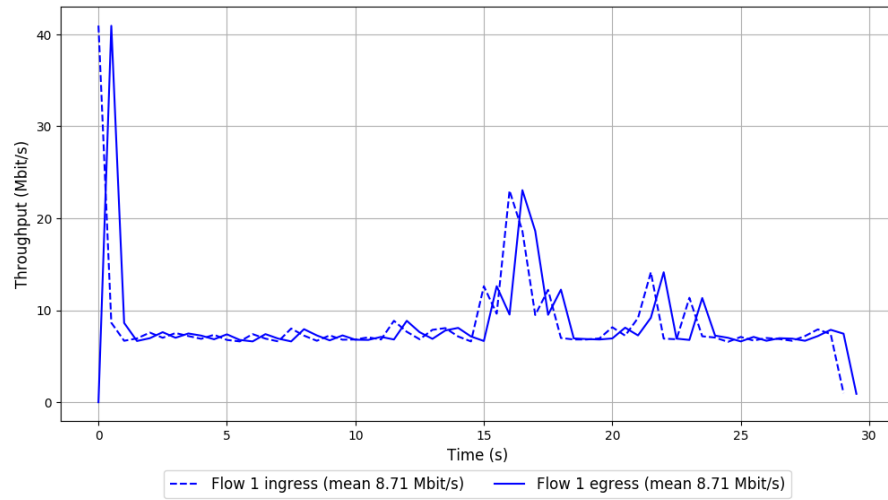
-- Flow 1:

Average throughput: 8.71 Mbit/s

95th percentile per-packet one-way delay: 1.653 ms

Loss rate: 0.01%

Run 5: Report of Muses_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-08-27 05:39:54

End at: 2019-08-27 05:40:24

Local clock offset: 0.304 ms

Remote clock offset: -0.043 ms

Below is generated by plot.py at 2019-08-27 07:57:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.30 Mbit/s

95th percentile per-packet one-way delay: 2.672 ms

Loss rate: 0.02%

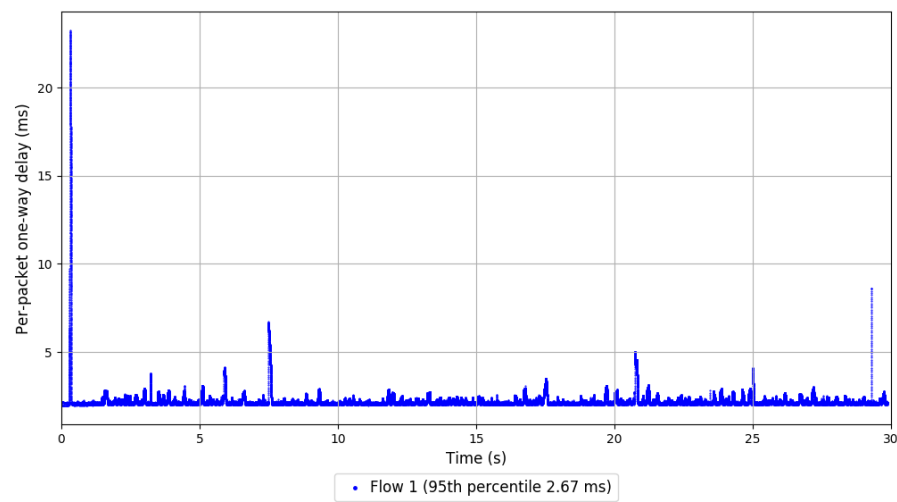
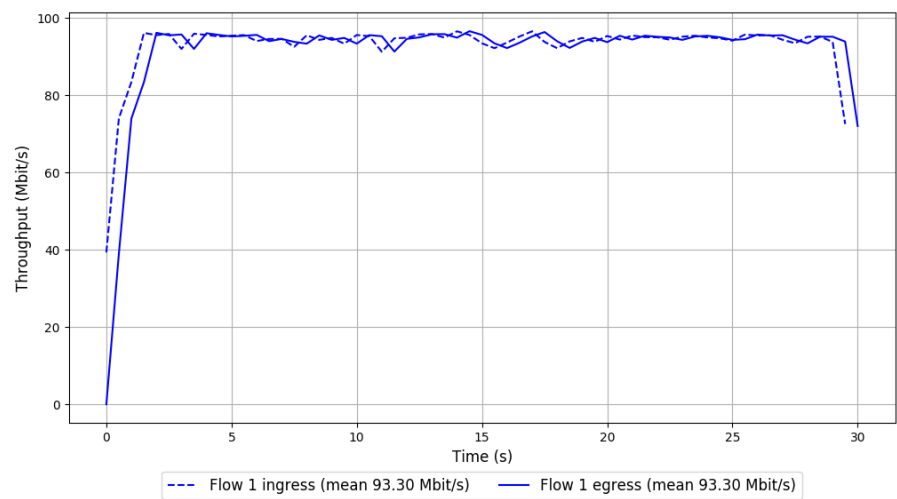
-- Flow 1:

Average throughput: 93.30 Mbit/s

95th percentile per-packet one-way delay: 2.672 ms

Loss rate: 0.02%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-08-27 06:06:52

End at: 2019-08-27 06:07:22

Local clock offset: 0.361 ms

Remote clock offset: 0.351 ms

Below is generated by plot.py at 2019-08-27 07:57:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.97 Mbit/s

95th percentile per-packet one-way delay: 3.196 ms

Loss rate: 0.02%

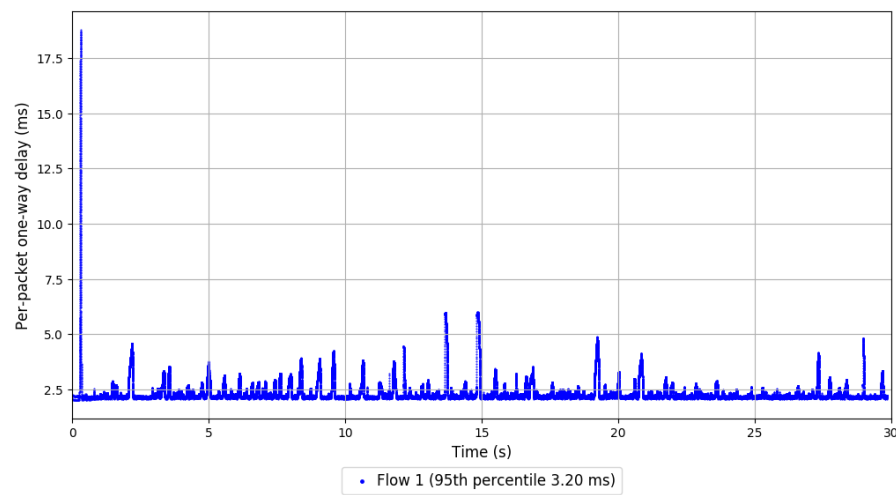
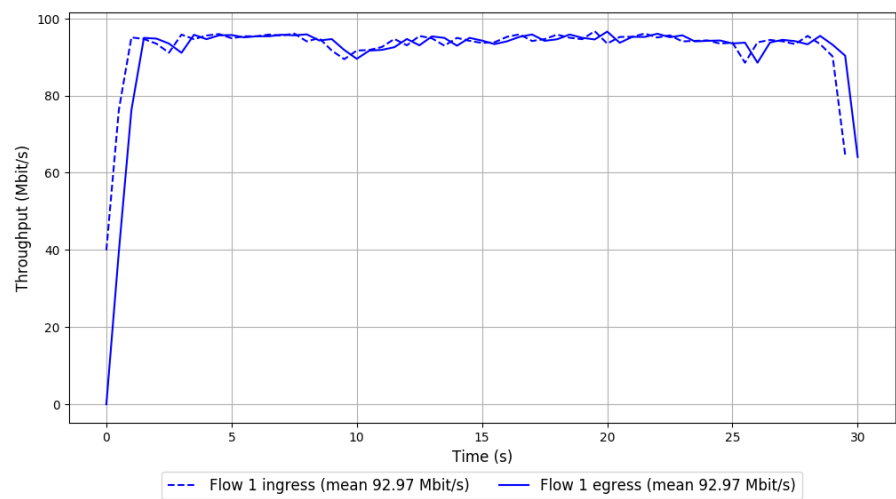
-- Flow 1:

Average throughput: 92.97 Mbit/s

95th percentile per-packet one-way delay: 3.196 ms

Loss rate: 0.02%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-08-27 06:33:47

End at: 2019-08-27 06:34:17

Local clock offset: 0.335 ms

Remote clock offset: 0.831 ms

Below is generated by plot.py at 2019-08-27 07:57:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.79 Mbit/s

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

Loss rate: 0.02%

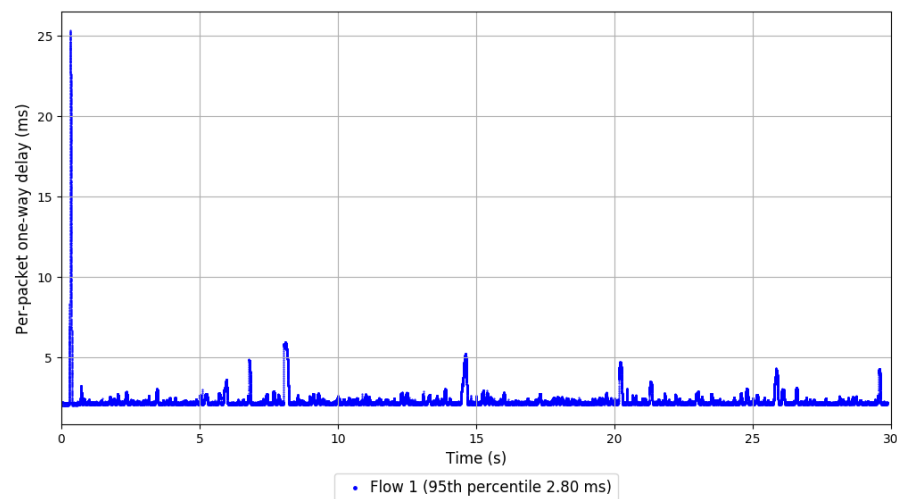
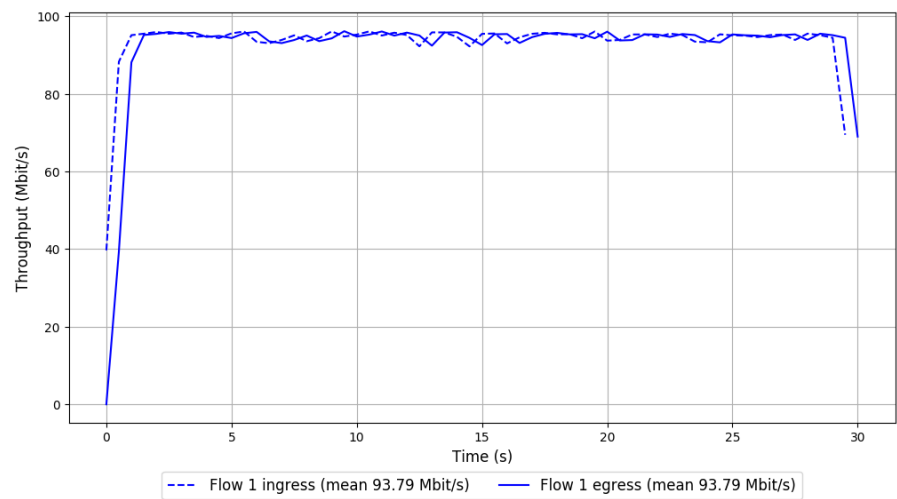
-- Flow 1:

Average throughput: 93.79 Mbit/s

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

Loss rate: 0.02%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-08-27 07:00:45

End at: 2019-08-27 07:01:15

Local clock offset: -0.493 ms

Remote clock offset: 0.847 ms

Below is generated by plot.py at 2019-08-27 07:58:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.39 Mbit/s

95th percentile per-packet one-way delay: 2.069 ms

Loss rate: 0.02%

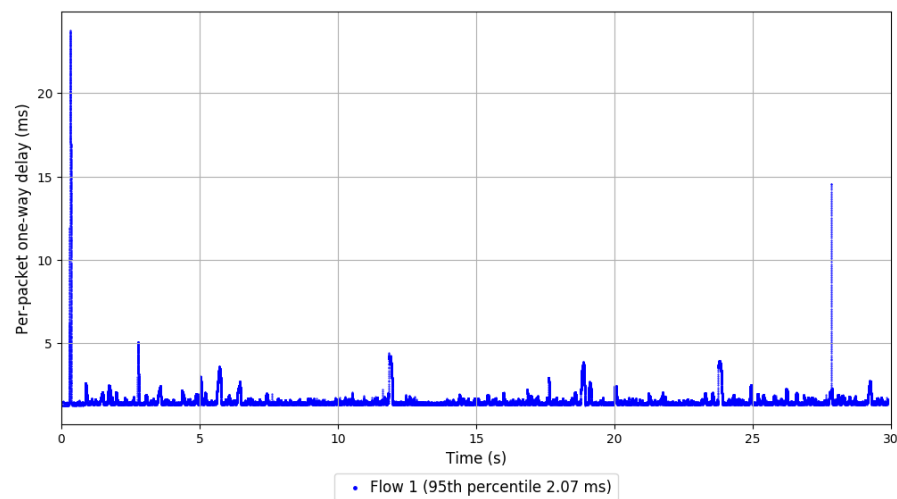
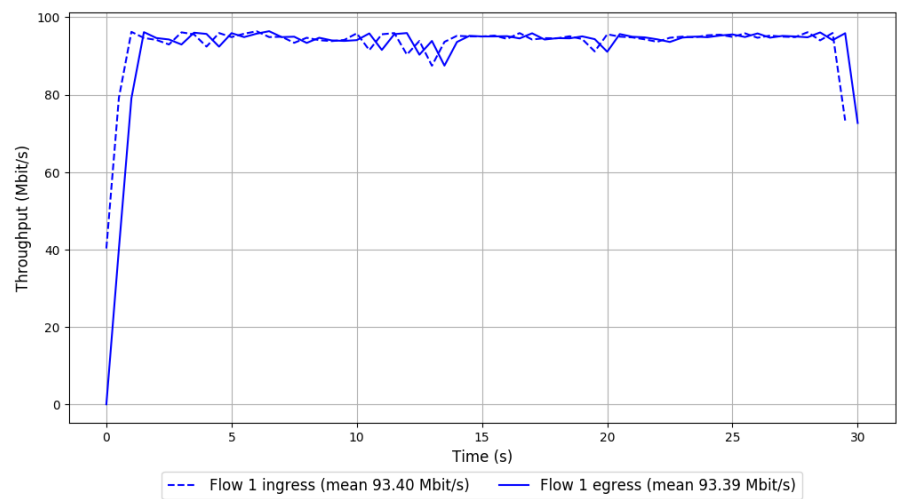
-- Flow 1:

Average throughput: 93.39 Mbit/s

95th percentile per-packet one-way delay: 2.069 ms

Loss rate: 0.02%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-08-27 07:27:42

End at: 2019-08-27 07:28:12

Local clock offset: 0.243 ms

Remote clock offset: 0.864 ms

Below is generated by plot.py at 2019-08-27 07:58:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.22 Mbit/s

95th percentile per-packet one-way delay: 3.004 ms

Loss rate: 0.02%

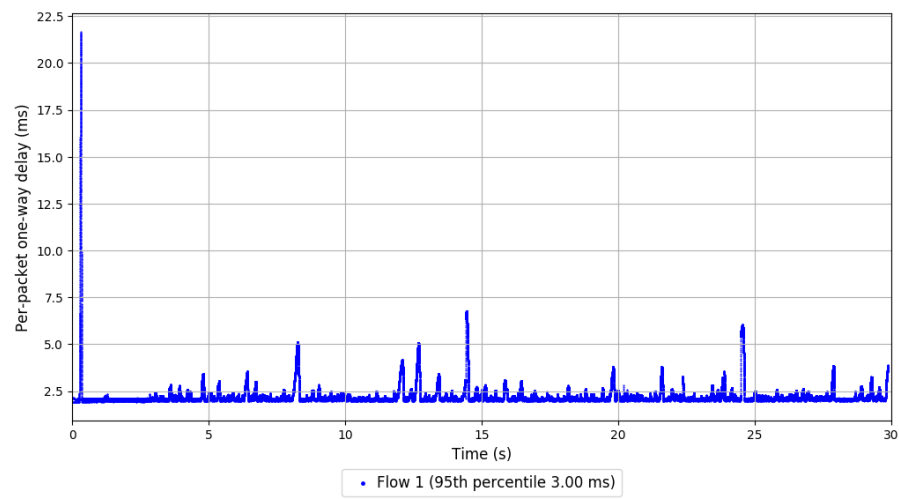
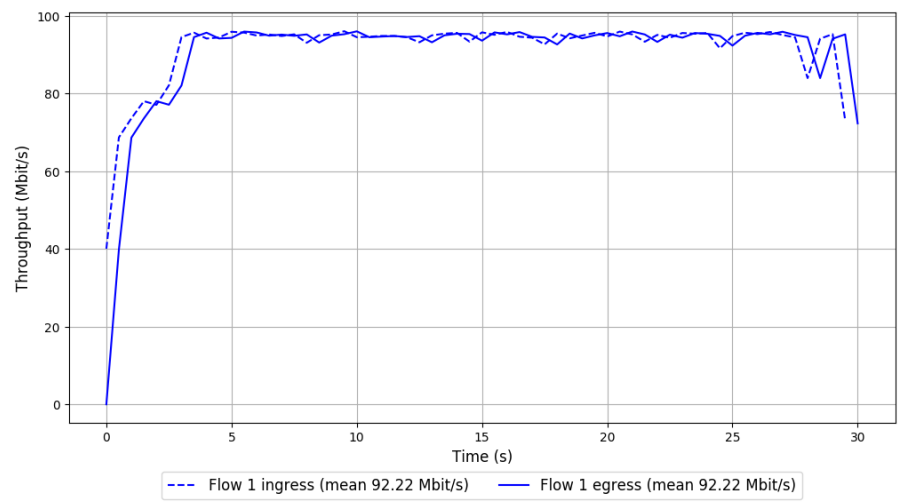
-- Flow 1:

Average throughput: 92.22 Mbit/s

95th percentile per-packet one-way delay: 3.004 ms

Loss rate: 0.02%

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2019-08-27 05:46:31

End at: 2019-08-27 05:47:01

Local clock offset: -0.462 ms

Remote clock offset: -0.06 ms

Below is generated by plot.py at 2019-08-27 07:58:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.76 Mbit/s

95th percentile per-packet one-way delay: 4.217 ms

Loss rate: 0.01%

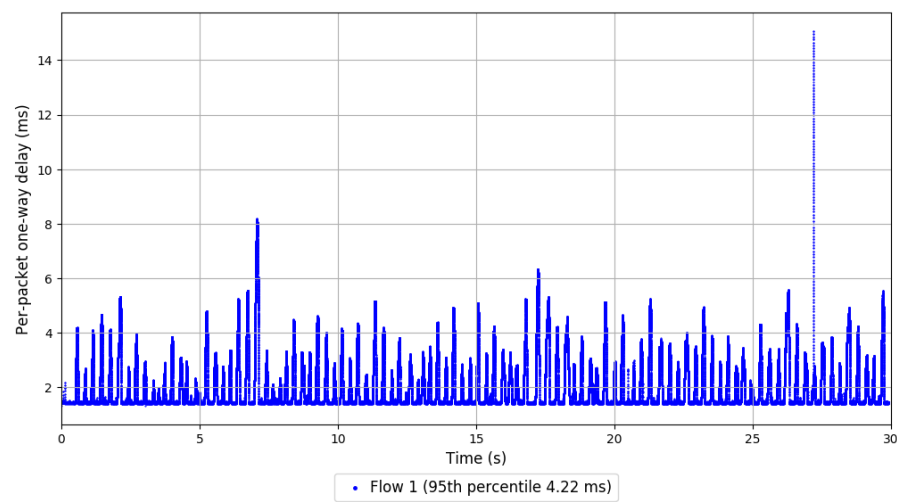
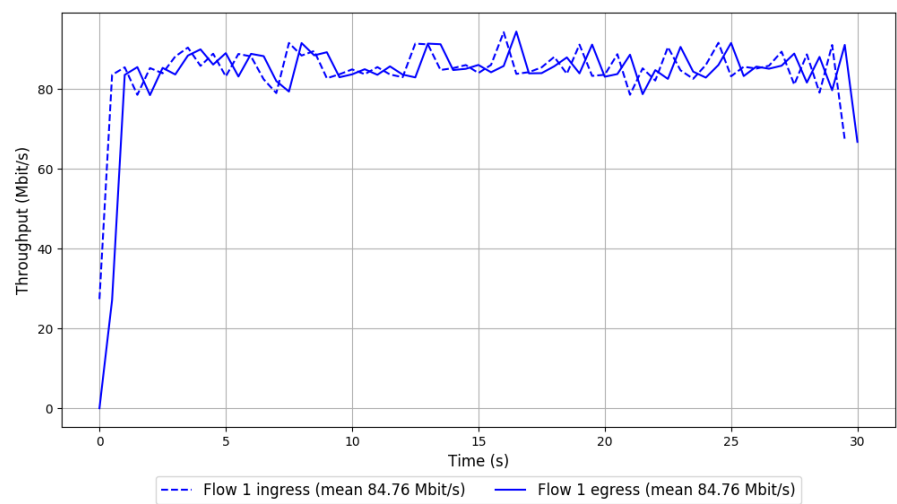
-- Flow 1:

Average throughput: 84.76 Mbit/s

95th percentile per-packet one-way delay: 4.217 ms

Loss rate: 0.01%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-08-27 06:13:28

End at: 2019-08-27 06:13:58

Local clock offset: 0.321 ms

Remote clock offset: 0.506 ms

Below is generated by plot.py at 2019-08-27 07:58:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.19 Mbit/s

95th percentile per-packet one-way delay: 6.974 ms

Loss rate: 0.02%

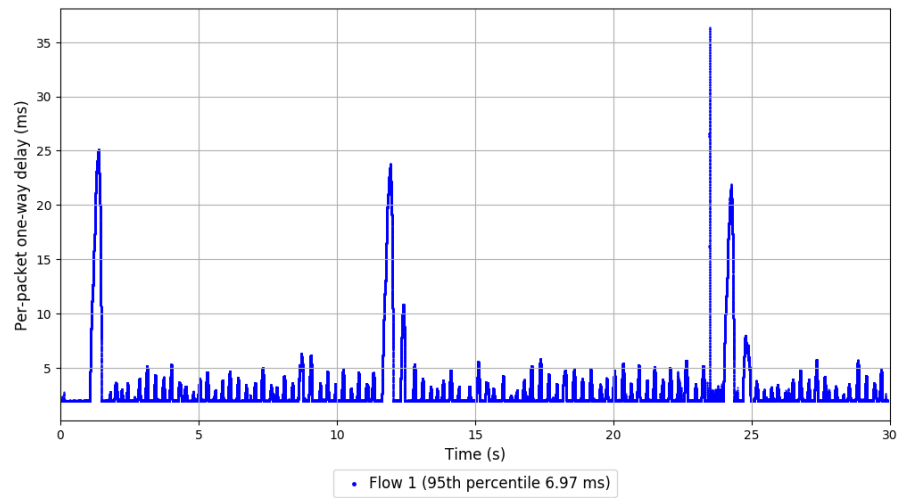
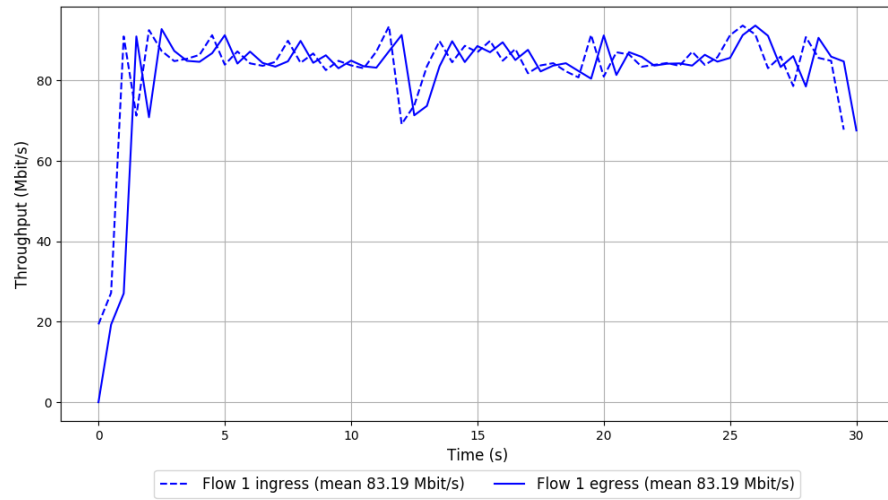
-- Flow 1:

Average throughput: 83.19 Mbit/s

95th percentile per-packet one-way delay: 6.974 ms

Loss rate: 0.02%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-08-27 06:40:22

End at: 2019-08-27 06:40:52

Local clock offset: 0.253 ms

Remote clock offset: 0.961 ms

Below is generated by plot.py at 2019-08-27 07:59:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.89 Mbit/s

95th percentile per-packet one-way delay: 4.752 ms

Loss rate: 0.01%

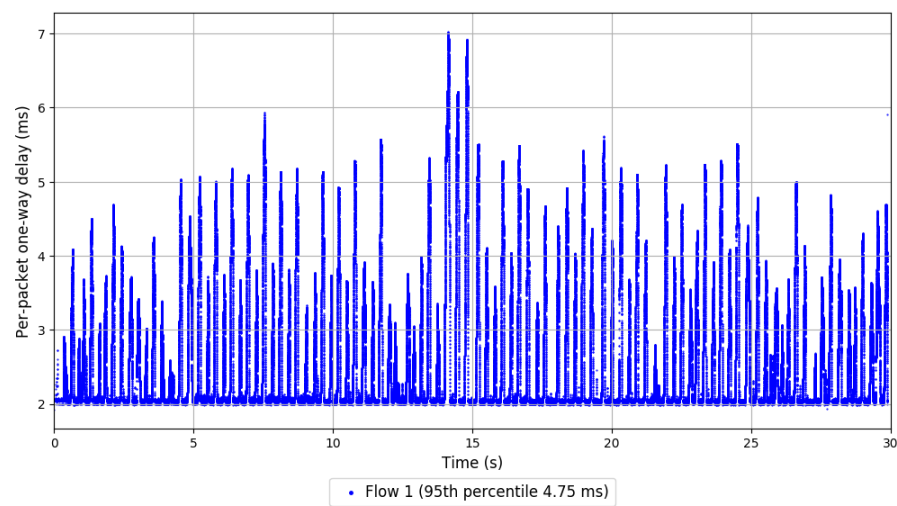
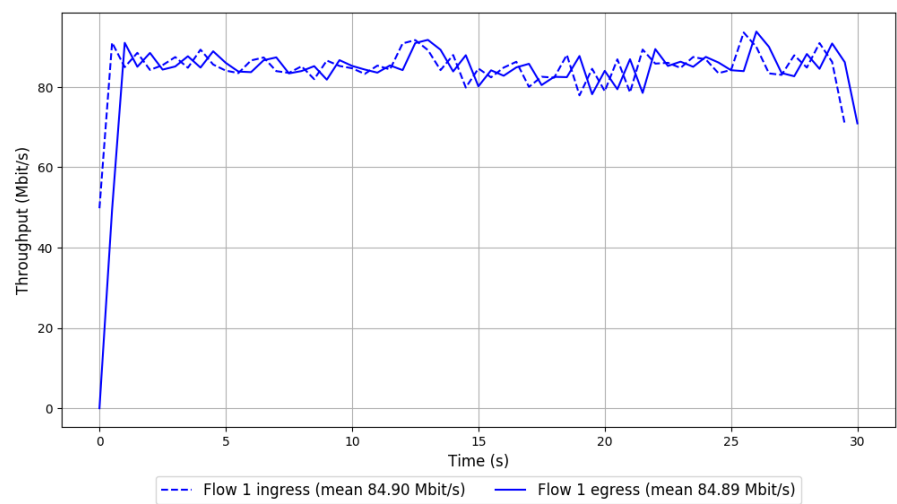
-- Flow 1:

Average throughput: 84.89 Mbit/s

95th percentile per-packet one-way delay: 4.752 ms

Loss rate: 0.01%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-08-27 07:07:21

End at: 2019-08-27 07:07:51

Local clock offset: 0.291 ms

Remote clock offset: 0.795 ms

Below is generated by plot.py at 2019-08-27 07:59:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.66 Mbit/s

95th percentile per-packet one-way delay: 632.230 ms

Loss rate: 1.29%

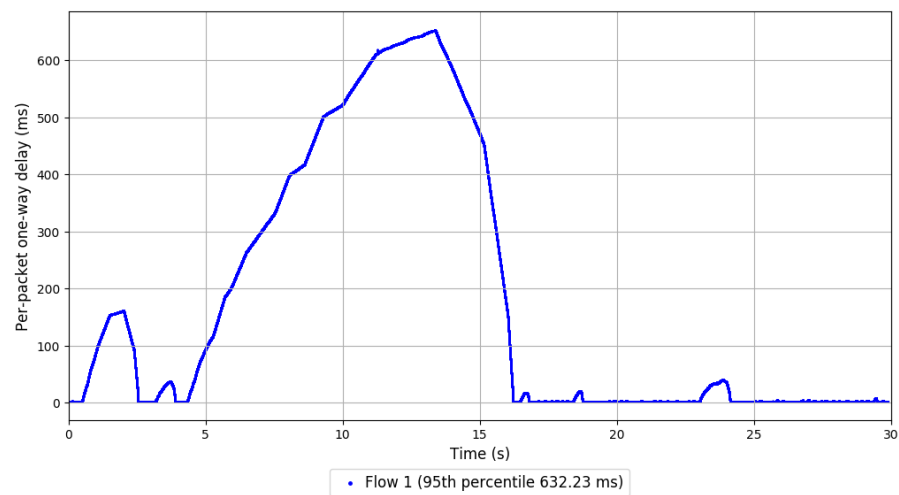
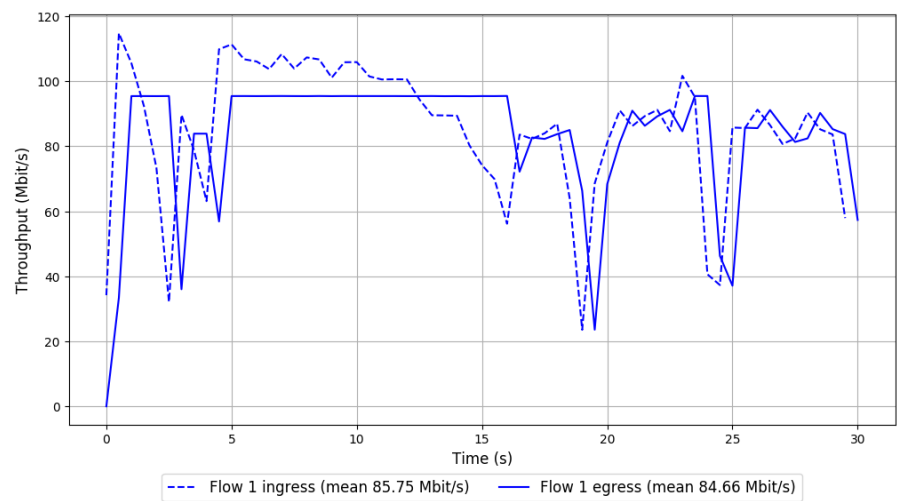
-- Flow 1:

Average throughput: 84.66 Mbit/s

95th percentile per-packet one-way delay: 632.230 ms

Loss rate: 1.29%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-08-27 07:34:21

End at: 2019-08-27 07:34:51

Local clock offset: -0.619 ms

Remote clock offset: 0.851 ms

Below is generated by plot.py at 2019-08-27 07:59:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.97 Mbit/s

95th percentile per-packet one-way delay: 251.078 ms

Loss rate: 0.55%

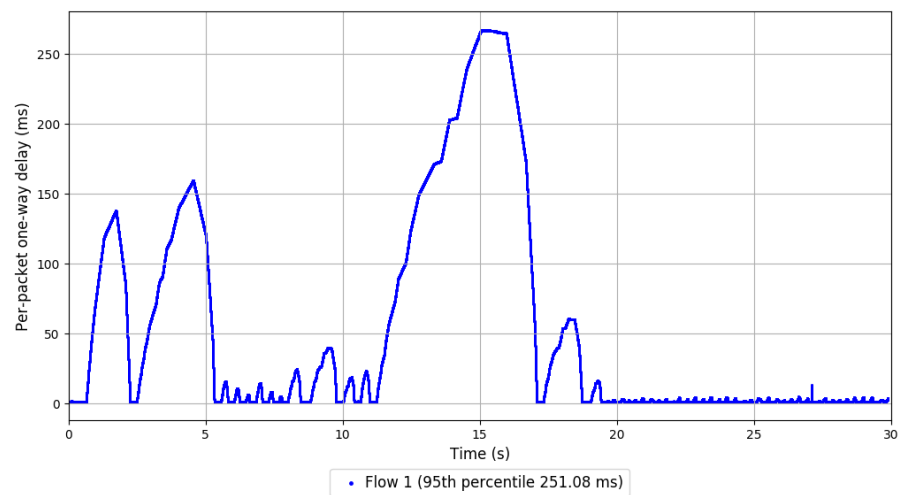
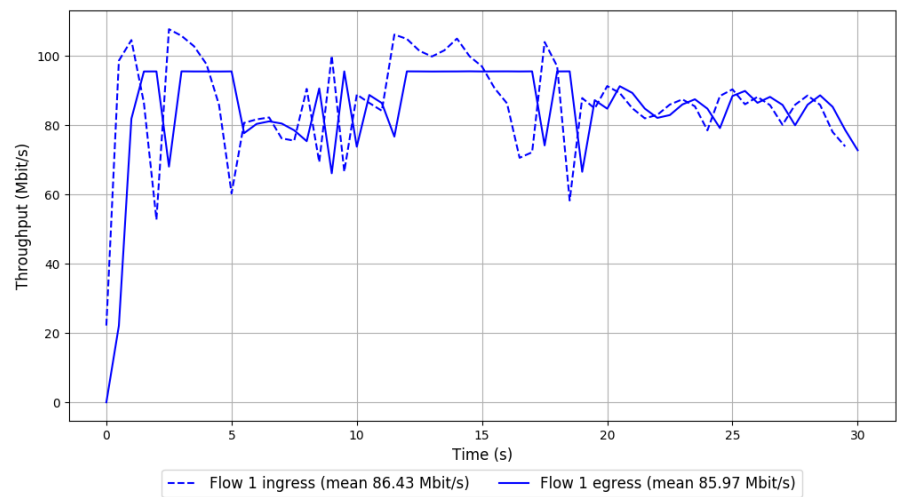
-- Flow 1:

Average throughput: 85.97 Mbit/s

95th percentile per-packet one-way delay: 251.078 ms

Loss rate: 0.55%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-08-27 05:38:46

End at: 2019-08-27 05:39:16

Local clock offset: -0.505 ms

Remote clock offset: -0.044 ms

Below is generated by plot.py at 2019-08-27 07:59:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.52 Mbit/s

95th percentile per-packet one-way delay: 8.354 ms

Loss rate: 0.02%

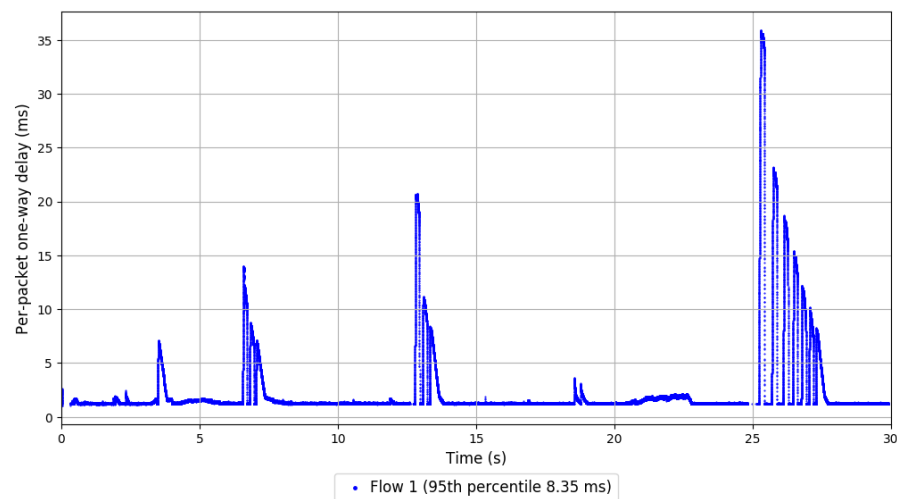
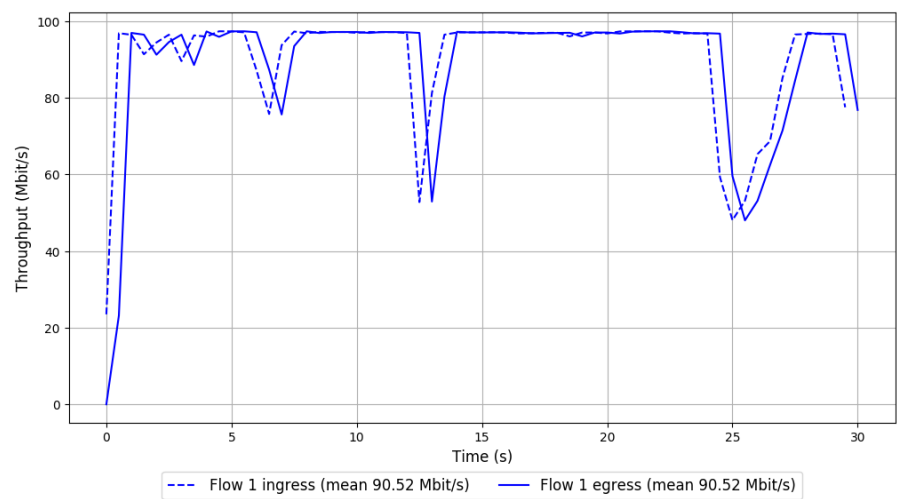
-- Flow 1:

Average throughput: 90.52 Mbit/s

95th percentile per-packet one-way delay: 8.354 ms

Loss rate: 0.02%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-08-27 06:05:44

End at: 2019-08-27 06:06:14

Local clock offset: 0.368 ms

Remote clock offset: 0.346 ms

Below is generated by plot.py at 2019-08-27 07:59:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.74 Mbit/s

95th percentile per-packet one-way delay: 9.502 ms

Loss rate: 0.02%

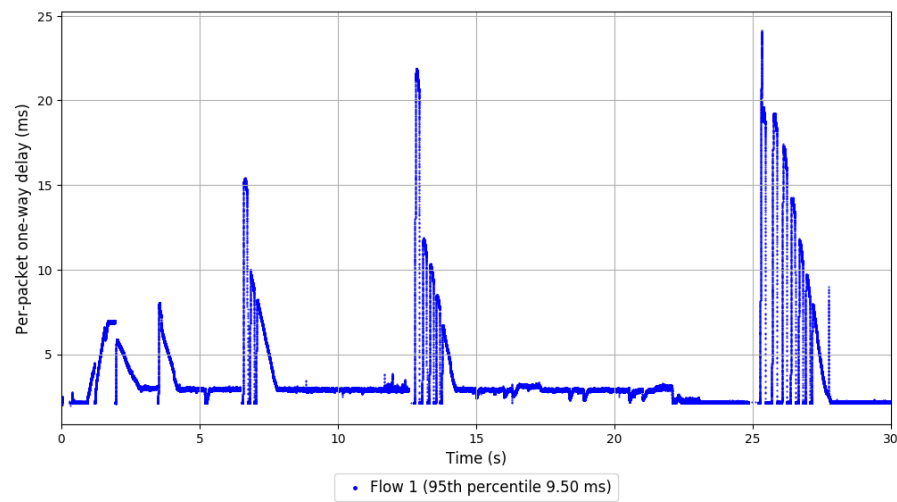
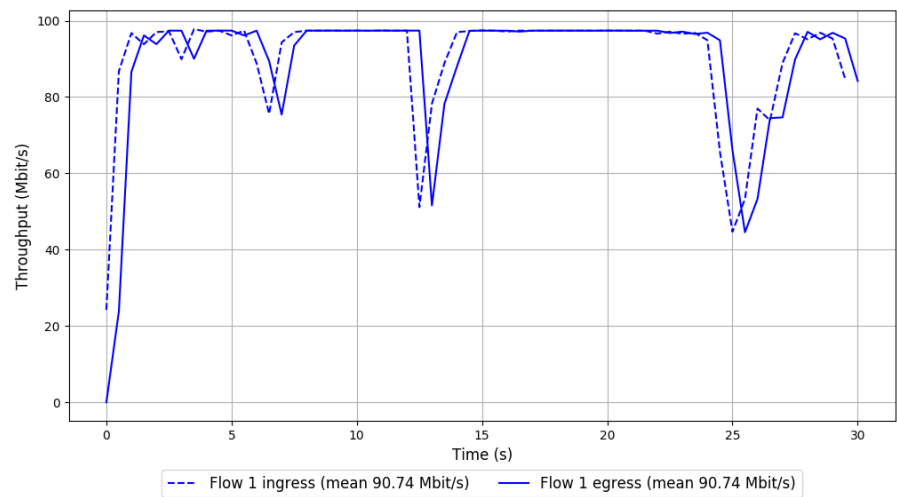
-- Flow 1:

Average throughput: 90.74 Mbit/s

95th percentile per-packet one-way delay: 9.502 ms

Loss rate: 0.02%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-08-27 06:32:39

End at: 2019-08-27 06:33:09

Local clock offset: -0.44 ms

Remote clock offset: 0.75 ms

Below is generated by plot.py at 2019-08-27 07:59:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.91 Mbit/s

95th percentile per-packet one-way delay: 7.228 ms

Loss rate: 0.02%

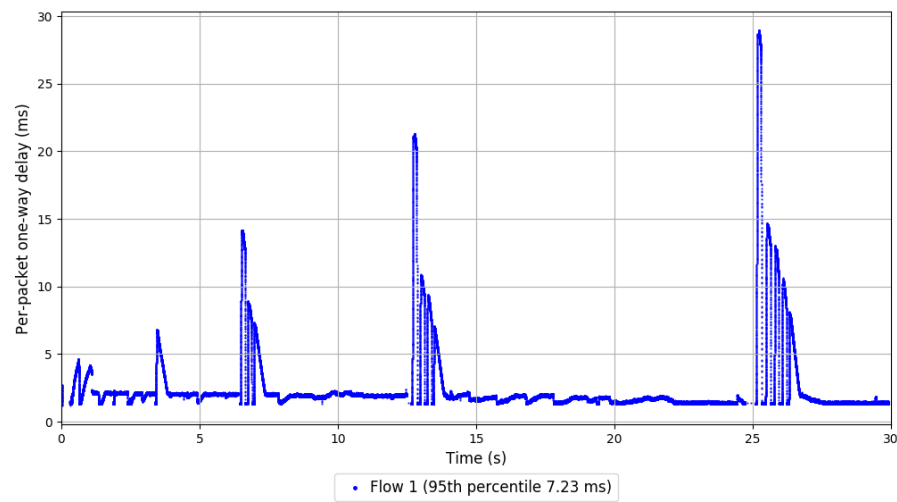
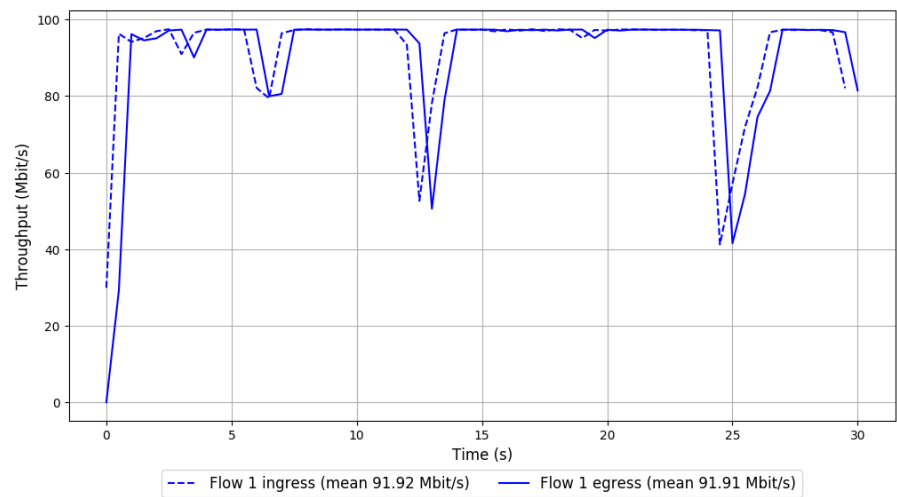
-- Flow 1:

Average throughput: 91.91 Mbit/s

95th percentile per-packet one-way delay: 7.228 ms

Loss rate: 0.02%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-08-27 06:59:37

End at: 2019-08-27 07:00:07

Local clock offset: -0.494 ms

Remote clock offset: 0.87 ms

Below is generated by plot.py at 2019-08-27 08:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.76 Mbit/s

95th percentile per-packet one-way delay: 6.242 ms

Loss rate: 0.02%

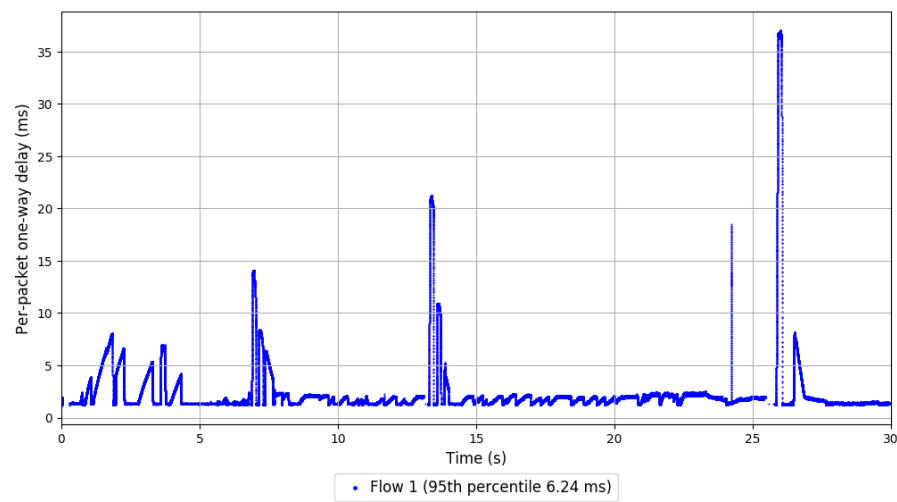
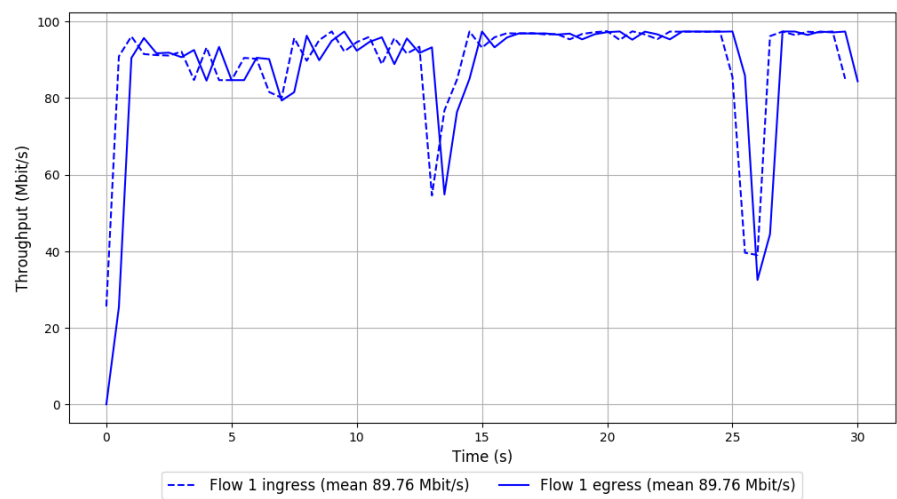
-- Flow 1:

Average throughput: 89.76 Mbit/s

95th percentile per-packet one-way delay: 6.242 ms

Loss rate: 0.02%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-08-27 07:26:34

End at: 2019-08-27 07:27:04

Local clock offset: -0.537 ms

Remote clock offset: 0.915 ms

Below is generated by plot.py at 2019-08-27 08:00:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.97 Mbit/s

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

Loss rate: 0.02%

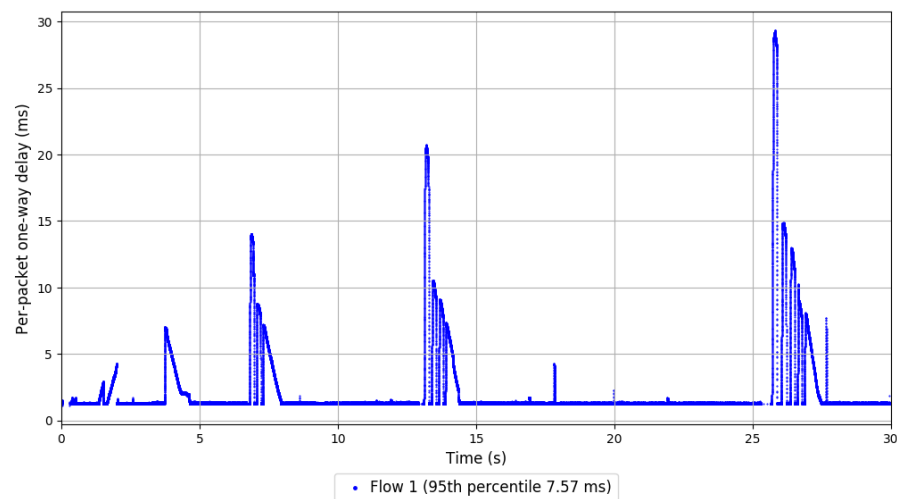
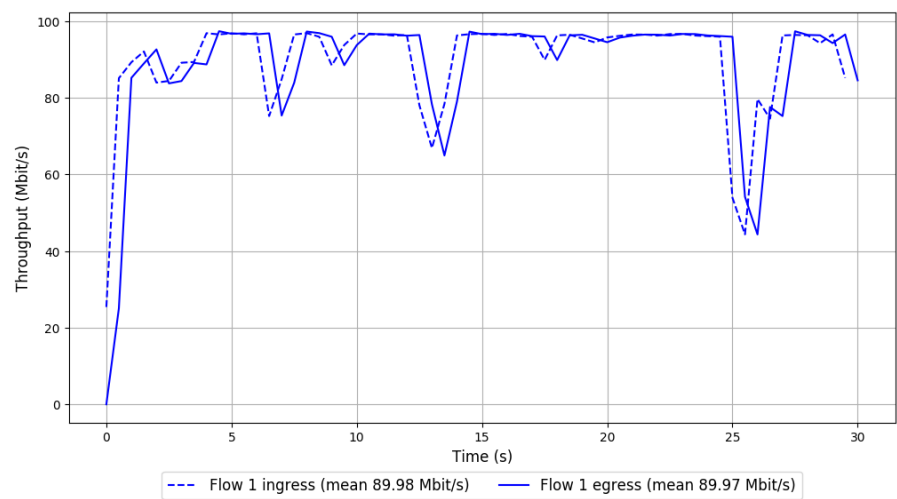
-- Flow 1:

Average throughput: 89.97 Mbit/s

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

Loss rate: 0.02%

Run 5: Report of QUIC Cubic — Data Link

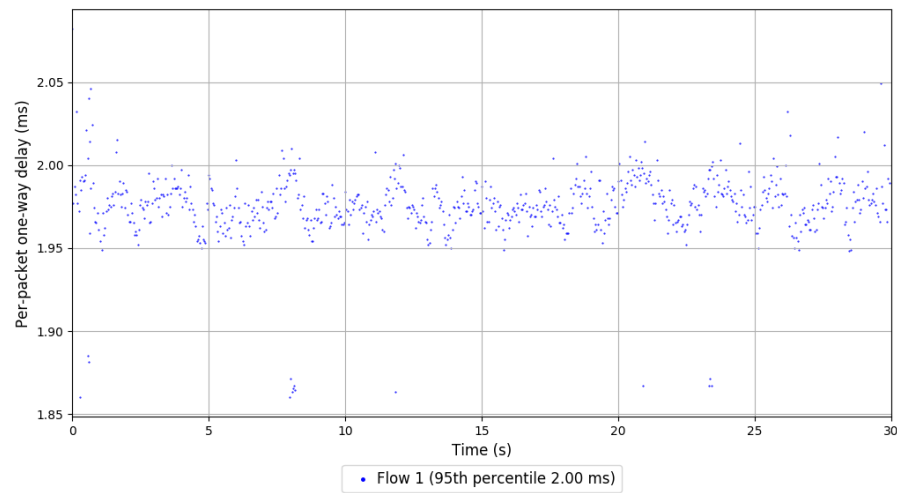
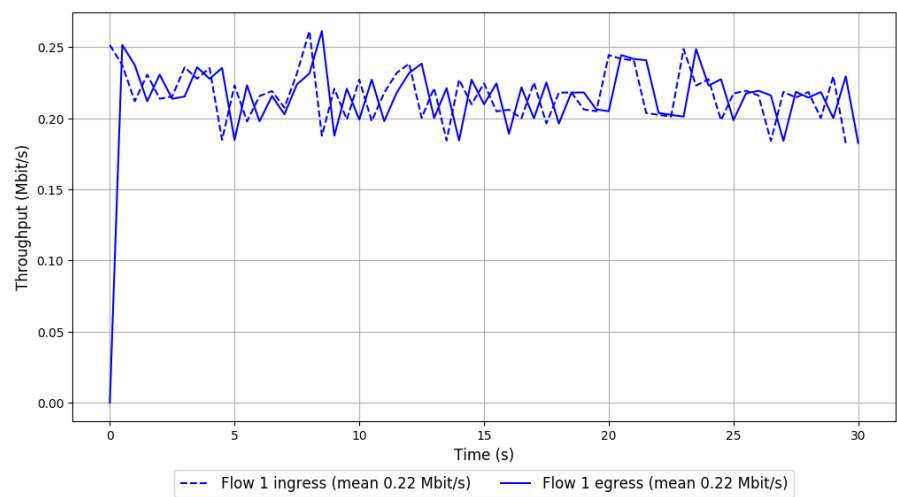


Run 1: Statistics of SCReAM

Start at: 2019-08-27 05:36:35
End at: 2019-08-27 05:37:05
Local clock offset: 0.281 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2019-08-27 08:00:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.001 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.001 ms
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-08-27 06:03:32

End at: 2019-08-27 06:04:02

Local clock offset: 0.309 ms

Remote clock offset: 0.266 ms

Below is generated by plot.py at 2019-08-27 08:00:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.102 ms

Loss rate: 0.00%

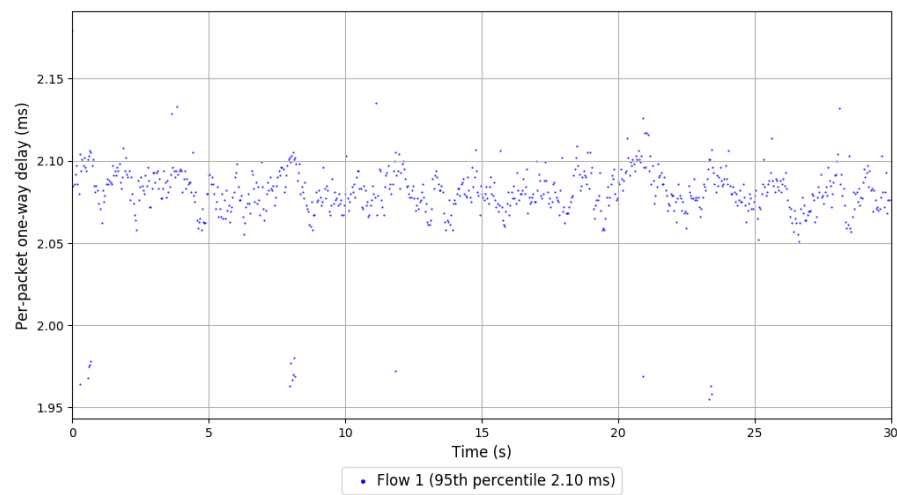
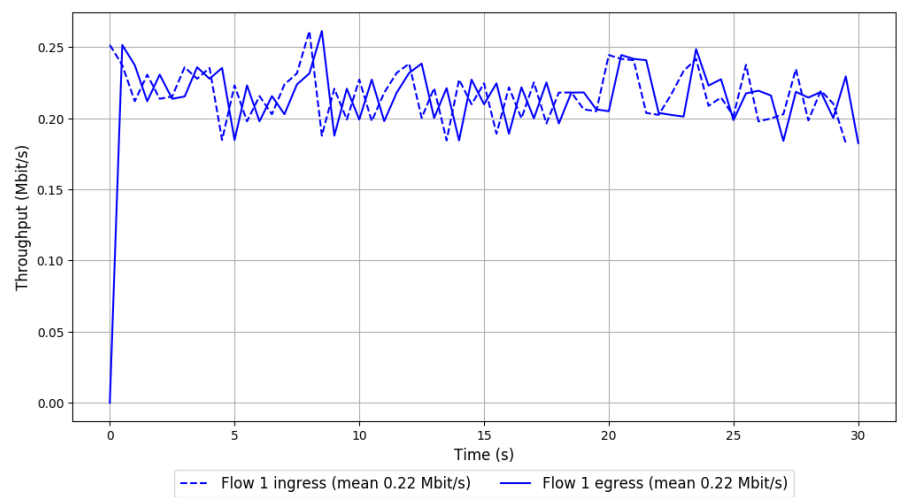
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.102 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-08-27 06:30:27

End at: 2019-08-27 06:30:57

Local clock offset: 0.34 ms

Remote clock offset: 0.814 ms

Below is generated by plot.py at 2019-08-27 08:00:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.130 ms

Loss rate: 0.00%

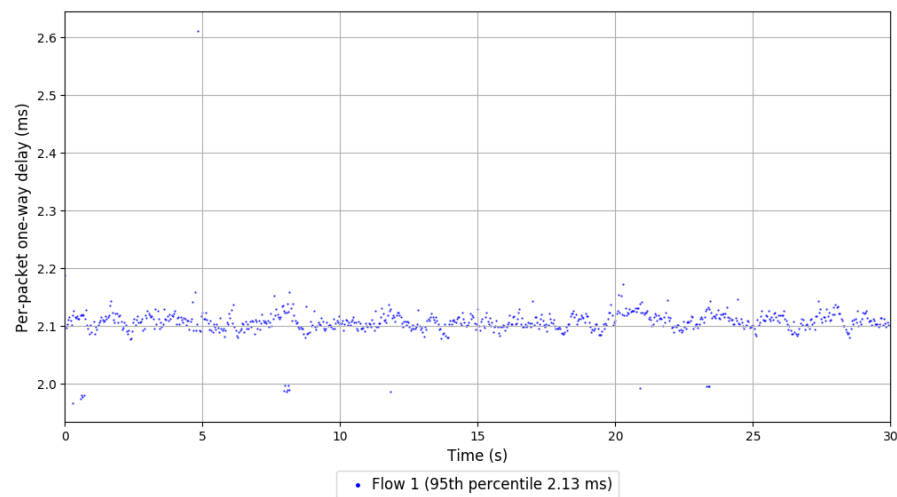
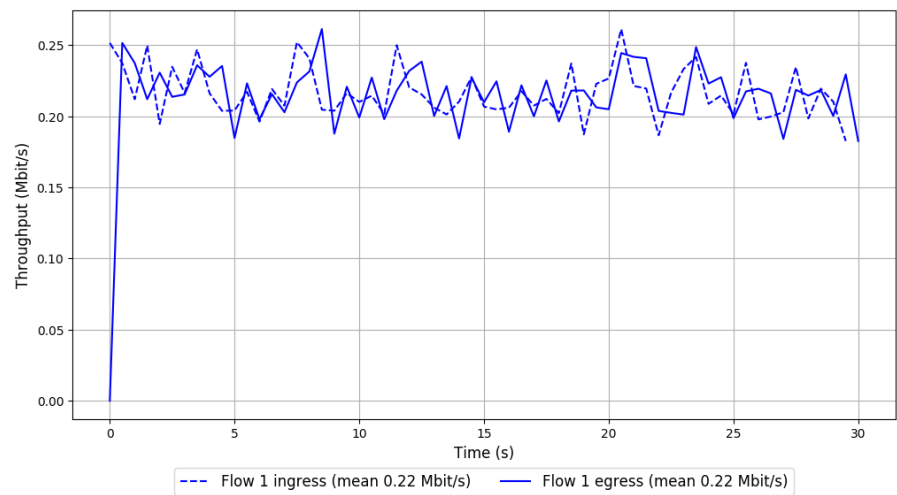
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.130 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-08-27 06:57:25

End at: 2019-08-27 06:57:55

Local clock offset: 0.212 ms

Remote clock offset: 0.919 ms

Below is generated by plot.py at 2019-08-27 08:00:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.061 ms

Loss rate: 0.00%

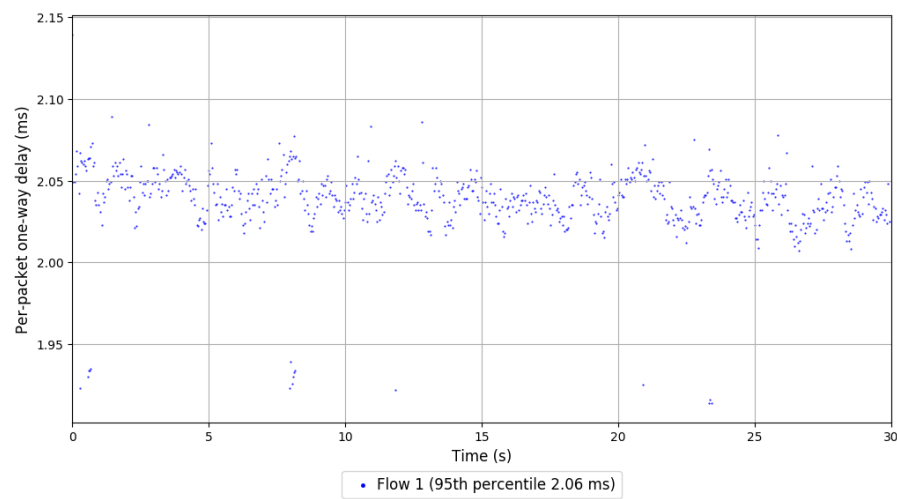
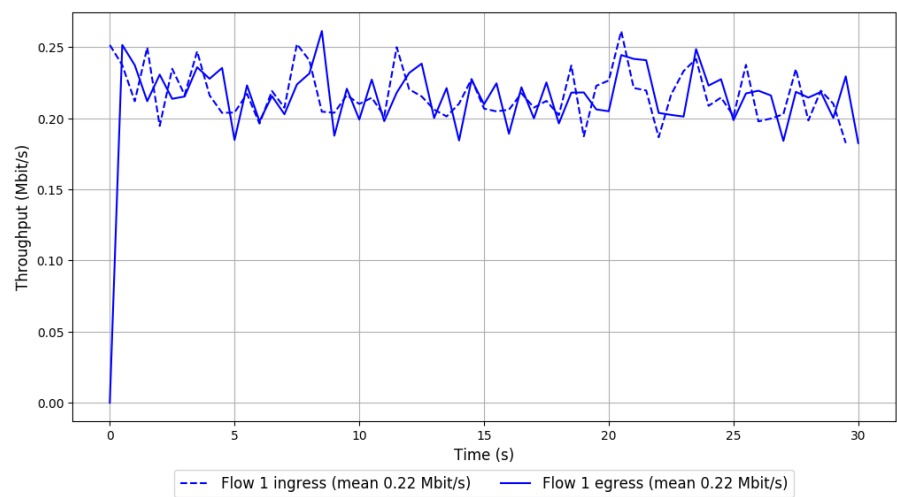
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.061 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-08-27 07:24:22

End at: 2019-08-27 07:24:52

Local clock offset: -0.528 ms

Remote clock offset: 0.837 ms

Below is generated by plot.py at 2019-08-27 08:00:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.341 ms

Loss rate: 0.00%

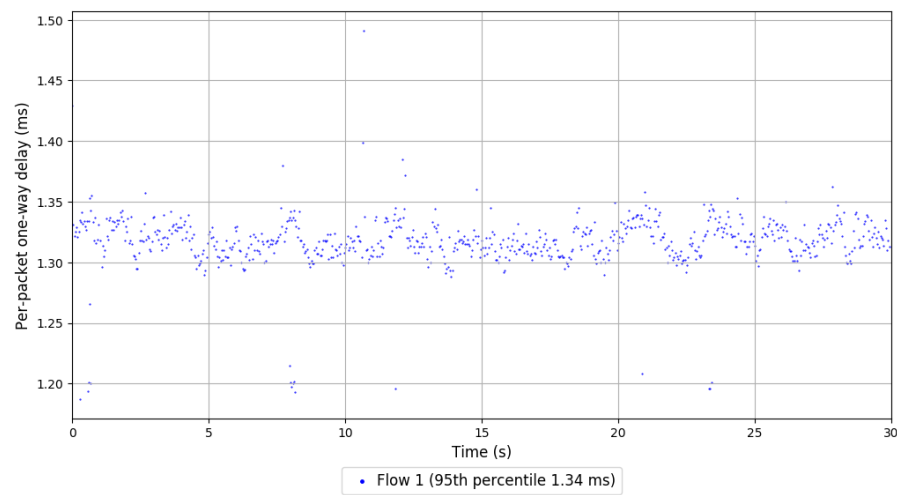
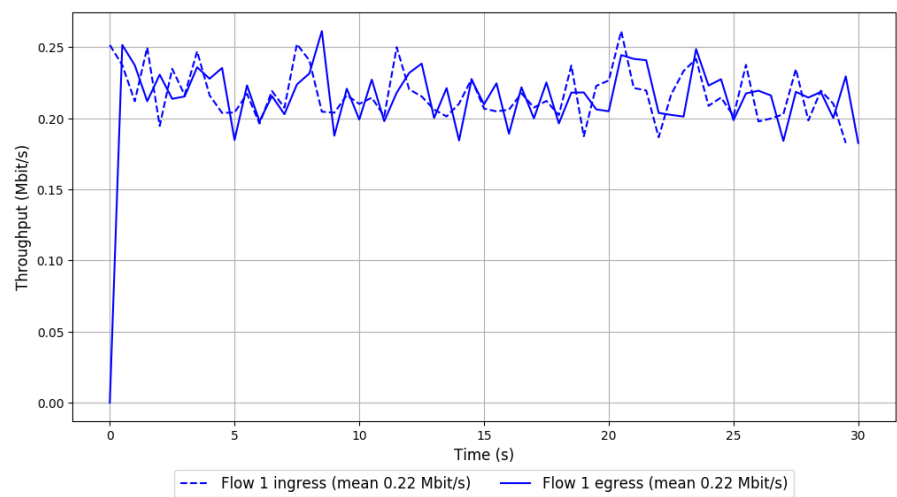
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.341 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-08-27 05:43:11

End at: 2019-08-27 05:43:42

Local clock offset: 0.358 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2019-08-27 08:00:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.30 Mbit/s

95th percentile per-packet one-way delay: 10.659 ms

Loss rate: 0.05%

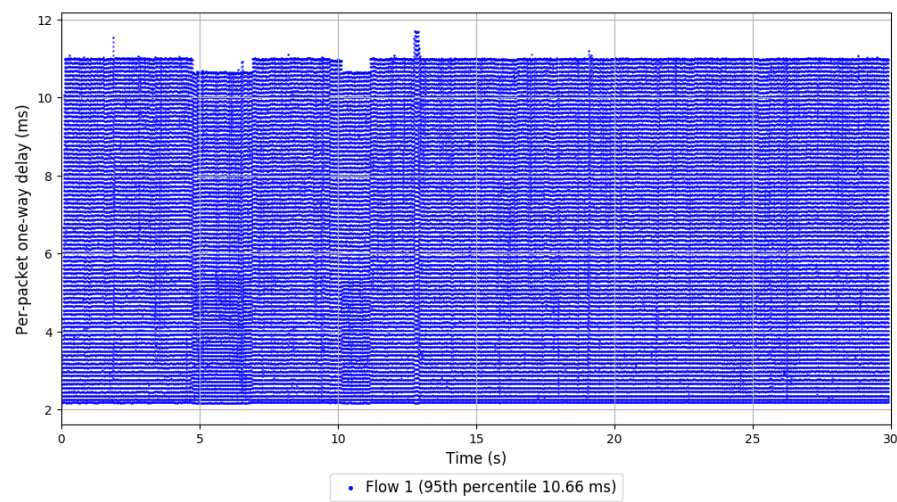
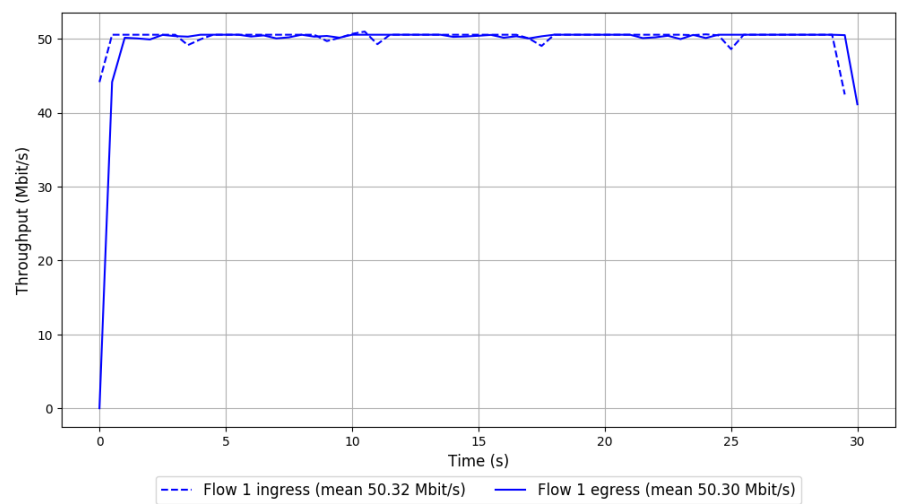
-- Flow 1:

Average throughput: 50.30 Mbit/s

95th percentile per-packet one-way delay: 10.659 ms

Loss rate: 0.05%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-08-27 06:10:08

End at: 2019-08-27 06:10:38

Local clock offset: -0.483 ms

Remote clock offset: 0.444 ms

Below is generated by plot.py at 2019-08-27 08:00:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.31 Mbit/s

95th percentile per-packet one-way delay: 9.816 ms

Loss rate: 0.06%

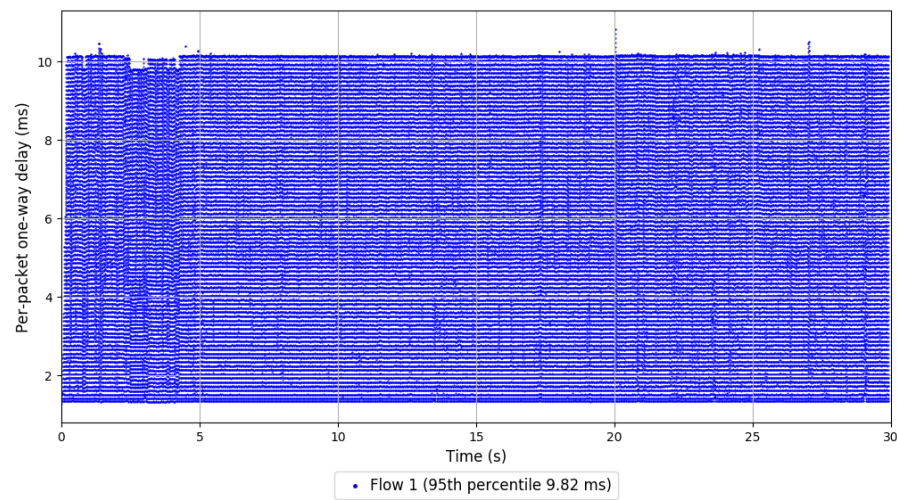
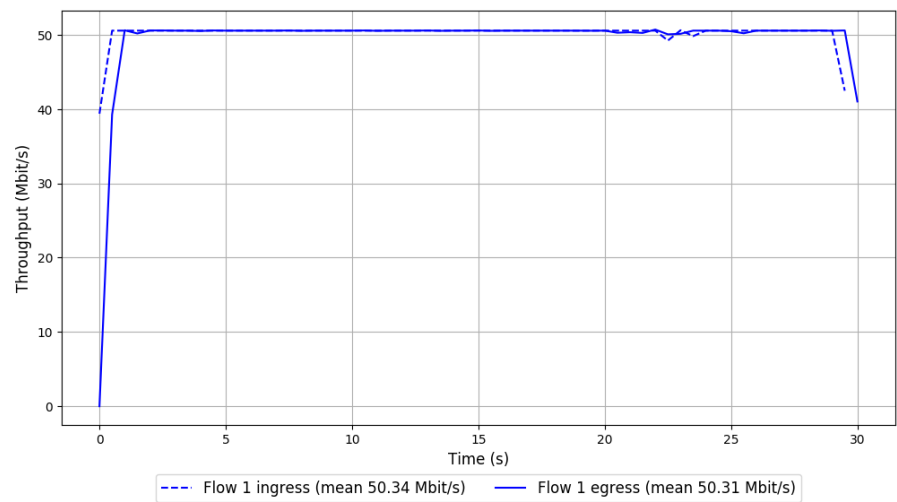
-- Flow 1:

Average throughput: 50.31 Mbit/s

95th percentile per-packet one-way delay: 9.816 ms

Loss rate: 0.06%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-08-27 06:37:03

End at: 2019-08-27 06:37:33

Local clock offset: -0.454 ms

Remote clock offset: 0.796 ms

Below is generated by plot.py at 2019-08-27 08:00:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.25 Mbit/s

95th percentile per-packet one-way delay: 9.869 ms

Loss rate: 0.00%

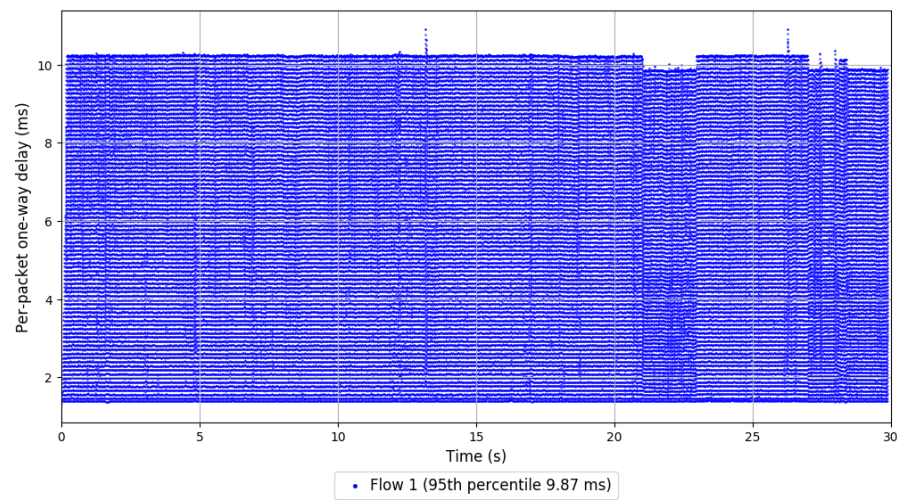
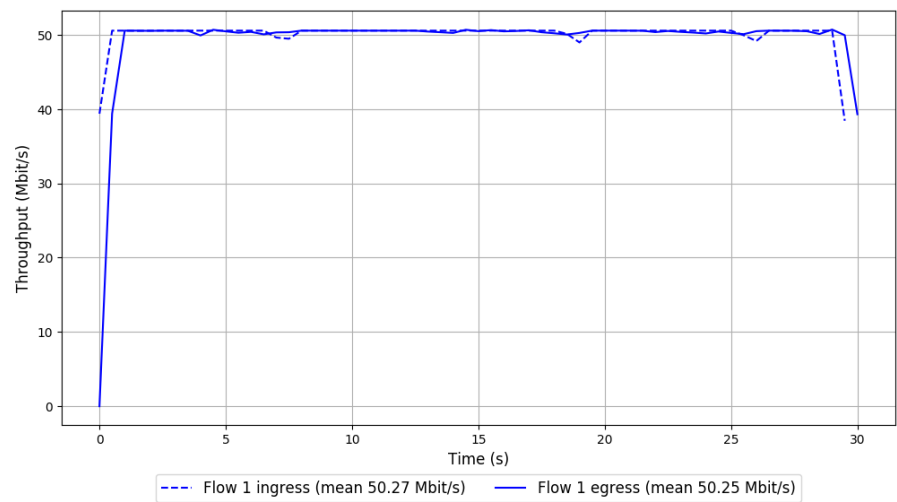
-- Flow 1:

Average throughput: 50.25 Mbit/s

95th percentile per-packet one-way delay: 9.869 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-08-27 07:04:01

End at: 2019-08-27 07:04:31

Local clock offset: 0.306 ms

Remote clock offset: 0.937 ms

Below is generated by plot.py at 2019-08-27 08:00:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.29 Mbit/s

95th percentile per-packet one-way delay: 10.538 ms

Loss rate: 0.00%

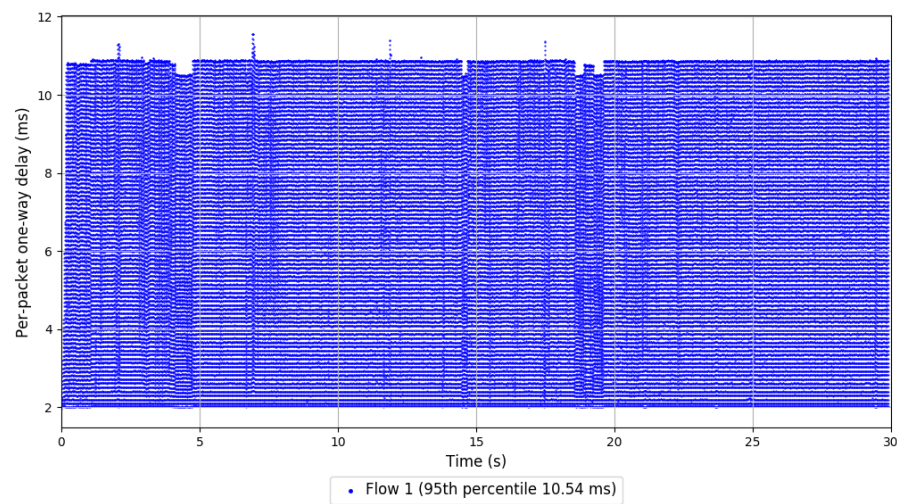
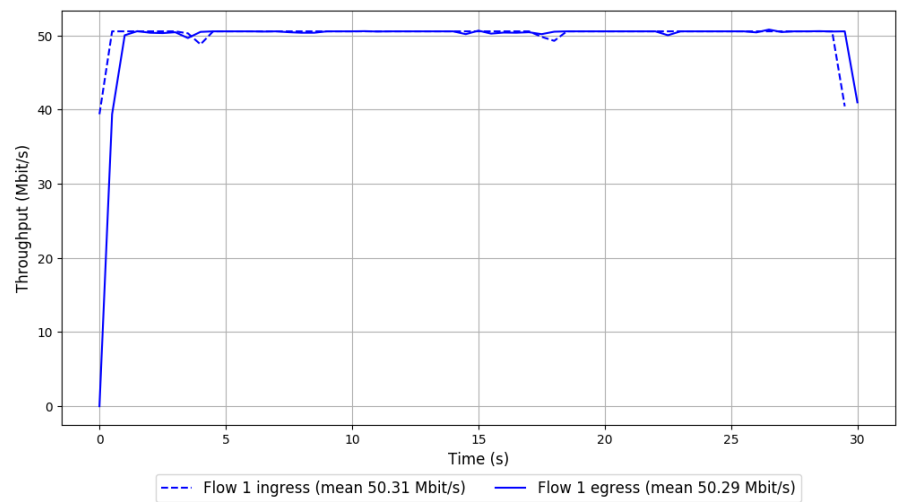
-- Flow 1:

Average throughput: 50.29 Mbit/s

95th percentile per-packet one-way delay: 10.538 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-08-27 07:31:01

End at: 2019-08-27 07:31:31

Local clock offset: 0.251 ms

Remote clock offset: 0.9 ms

Below is generated by plot.py at 2019-08-27 08:00:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.26 Mbit/s

95th percentile per-packet one-way delay: 10.699 ms

Loss rate: 0.07%

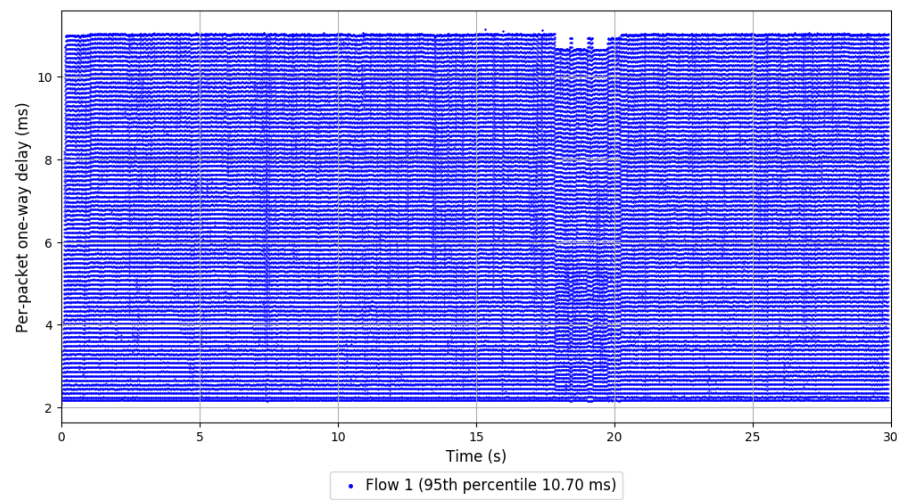
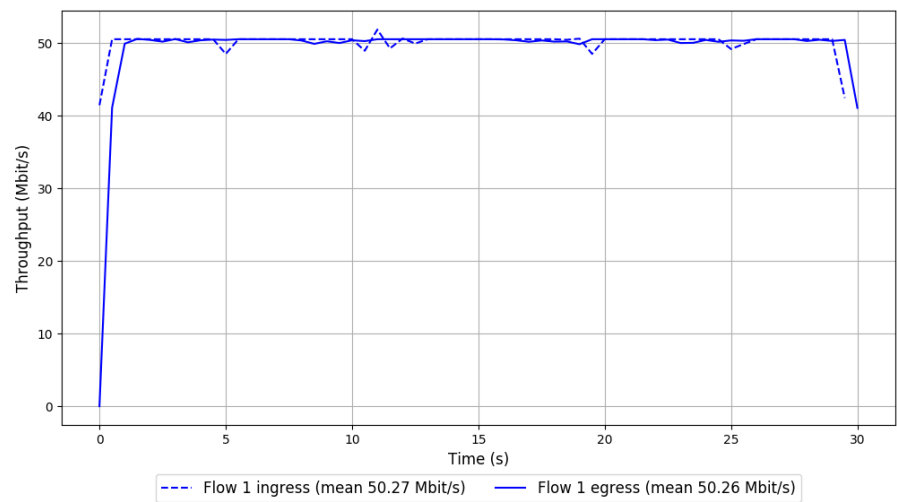
-- Flow 1:

Average throughput: 50.26 Mbit/s

95th percentile per-packet one-way delay: 10.699 ms

Loss rate: 0.07%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-08-27 05:49:54

End at: 2019-08-27 05:50:24

Local clock offset: -0.401 ms

Remote clock offset: 0.096 ms

Below is generated by plot.py at 2019-08-27 08:01:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.93 Mbit/s

95th percentile per-packet one-way delay: 1.431 ms

Loss rate: 0.02%

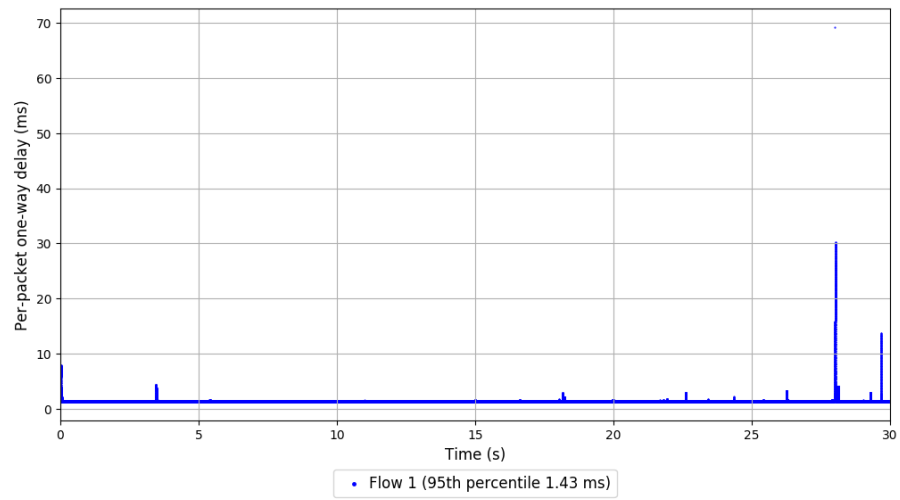
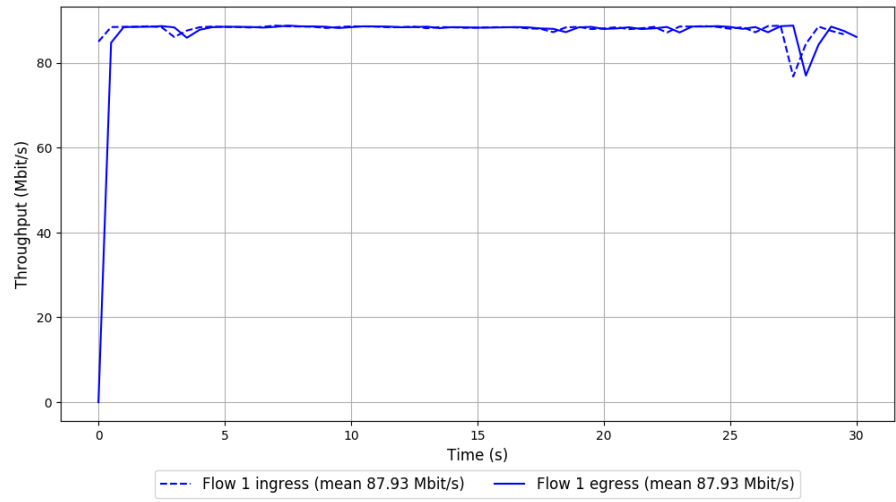
-- Flow 1:

Average throughput: 87.93 Mbit/s

95th percentile per-packet one-way delay: 1.431 ms

Loss rate: 0.02%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-08-27 06:16:50

End at: 2019-08-27 06:17:20

Local clock offset: 0.304 ms

Remote clock offset: 0.586 ms

Below is generated by plot.py at 2019-08-27 08:01:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.35 Mbit/s

95th percentile per-packet one-way delay: 1.988 ms

Loss rate: 0.02%

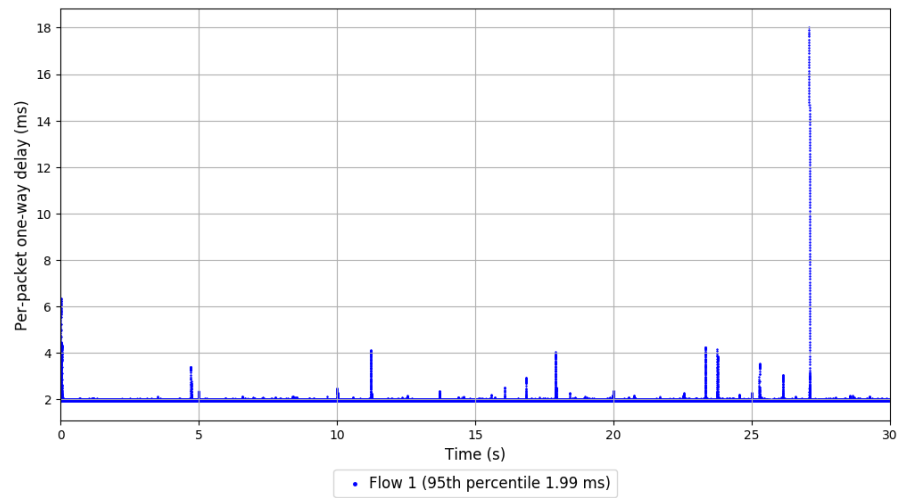
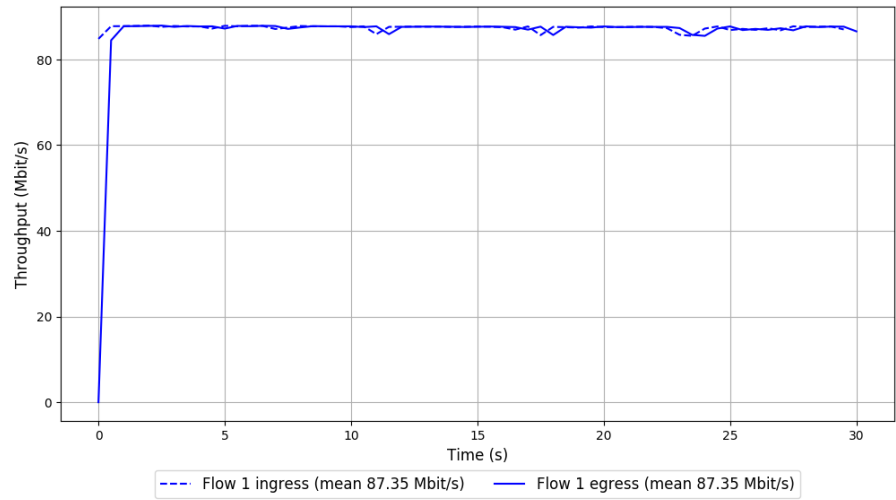
-- Flow 1:

Average throughput: 87.35 Mbit/s

95th percentile per-packet one-way delay: 1.988 ms

Loss rate: 0.02%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-08-27 06:43:44

End at: 2019-08-27 06:44:14

Local clock offset: -0.475 ms

Remote clock offset: 0.902 ms

Below is generated by plot.py at 2019-08-27 08:01:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.66 Mbit/s

95th percentile per-packet one-way delay: 1.413 ms

Loss rate: 0.02%

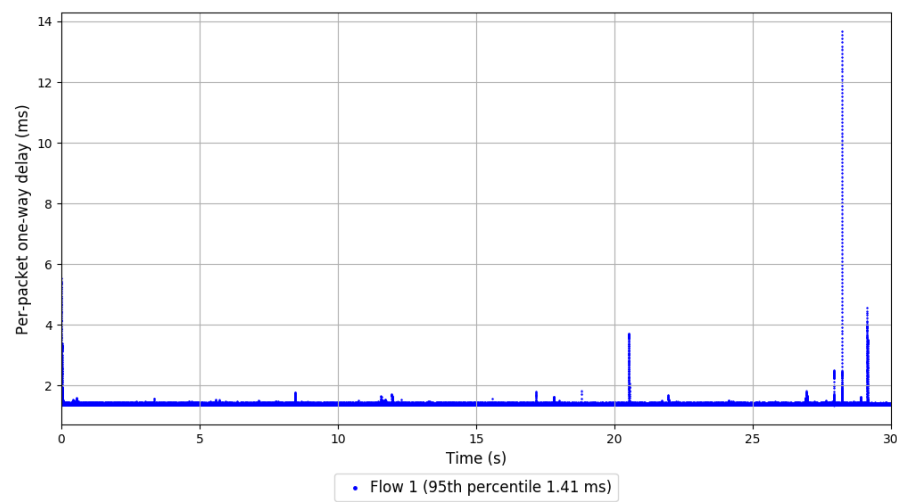
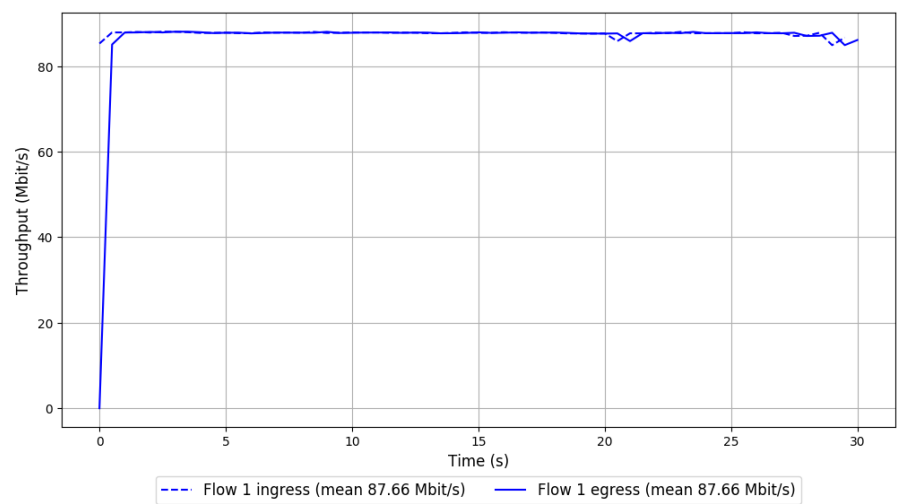
-- Flow 1:

Average throughput: 87.66 Mbit/s

95th percentile per-packet one-way delay: 1.413 ms

Loss rate: 0.02%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-08-27 07:10:43

End at: 2019-08-27 07:11:13

Local clock offset: 0.278 ms

Remote clock offset: 0.892 ms

Below is generated by plot.py at 2019-08-27 08:01:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.21 Mbit/s

95th percentile per-packet one-way delay: 2.172 ms

Loss rate: 0.02%

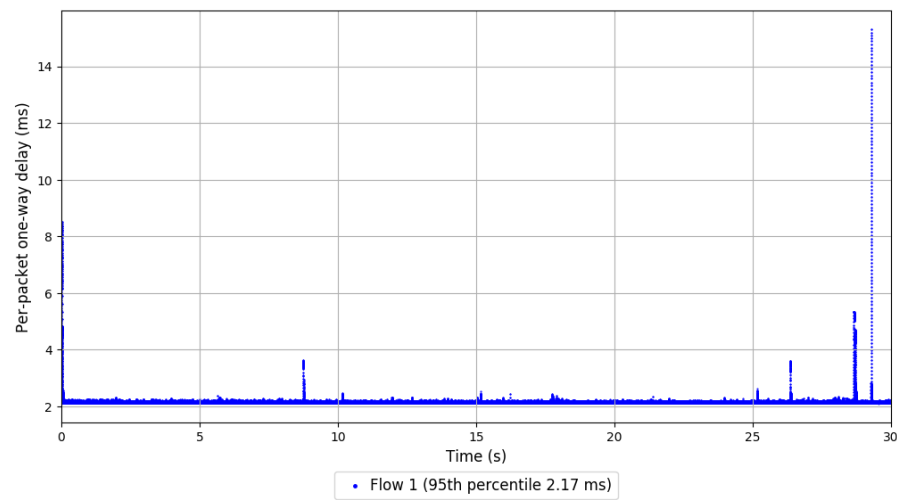
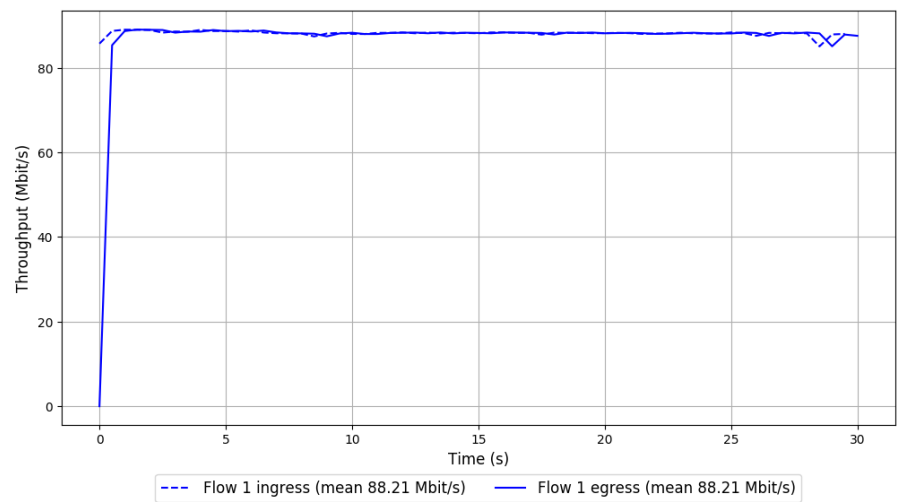
-- Flow 1:

Average throughput: 88.21 Mbit/s

95th percentile per-packet one-way delay: 2.172 ms

Loss rate: 0.02%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-08-27 07:37:43

End at: 2019-08-27 07:38:13

Local clock offset: 0.213 ms

Remote clock offset: 0.838 ms

Below is generated by plot.py at 2019-08-27 08:01:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.47 Mbit/s

95th percentile per-packet one-way delay: 2.112 ms

Loss rate: 0.02%

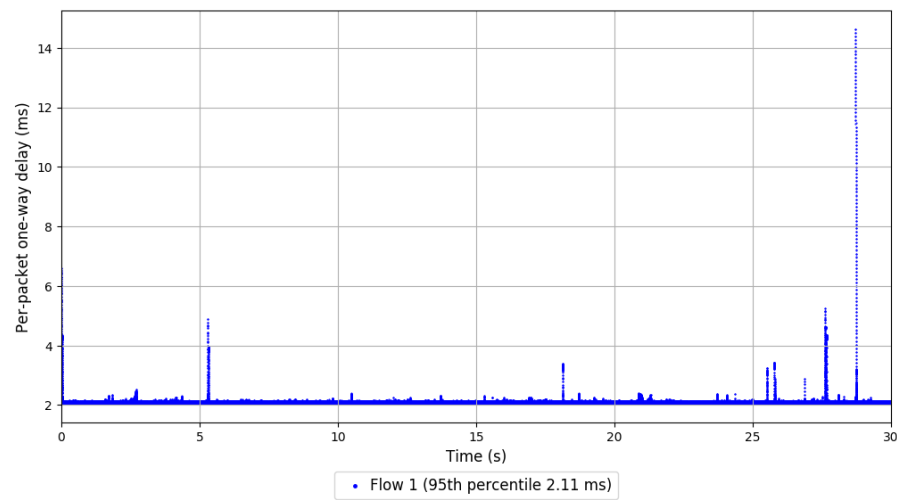
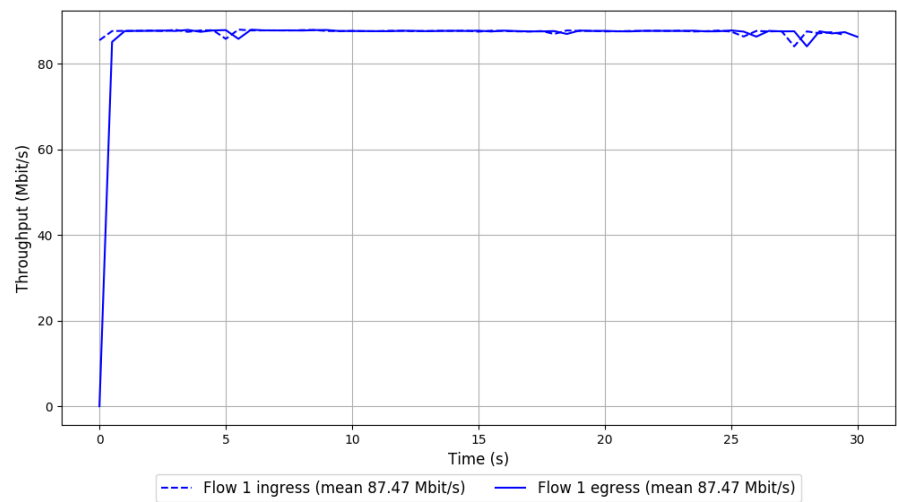
-- Flow 1:

Average throughput: 87.47 Mbit/s

95th percentile per-packet one-way delay: 2.112 ms

Loss rate: 0.02%

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

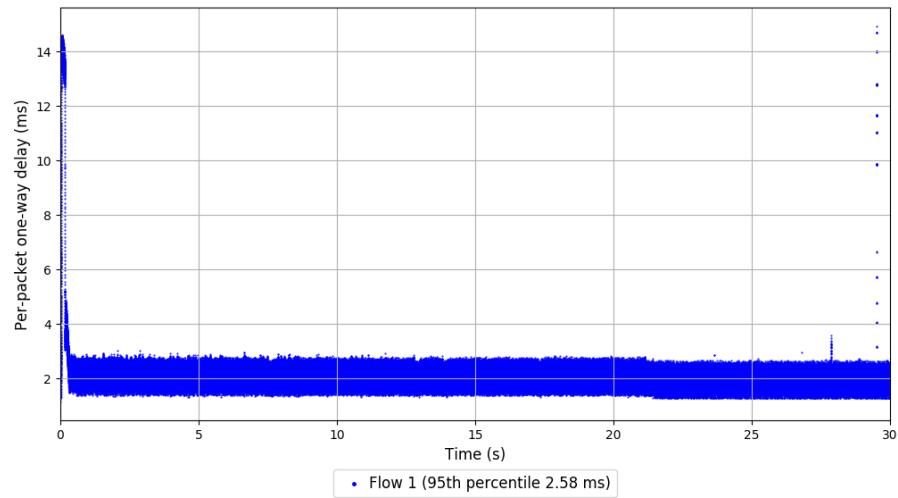
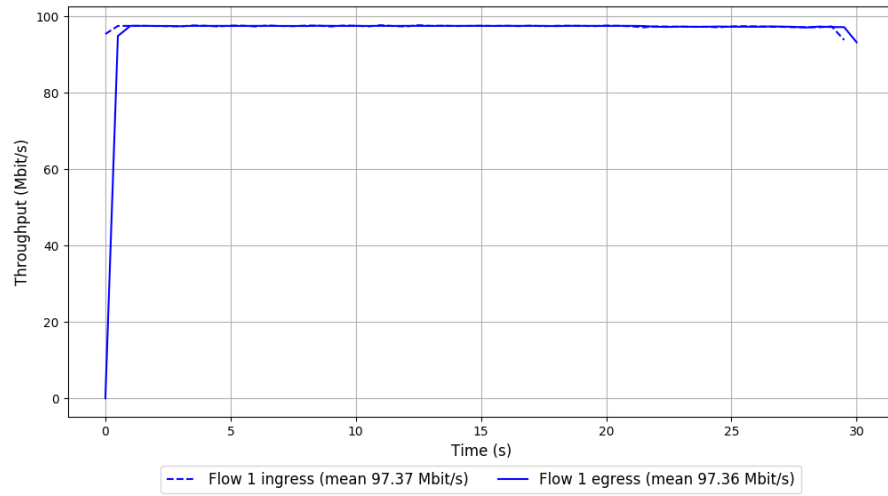


Run 1: Statistics of TCP Vegas

Start at: 2019-08-27 05:34:16
End at: 2019-08-27 05:34:46
Local clock offset: -0.437 ms
Remote clock offset: -0.011 ms

Below is generated by plot.py at 2019-08-27 08:01:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.36 Mbit/s
95th percentile per-packet one-way delay: 2.581 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.36 Mbit/s
95th percentile per-packet one-way delay: 2.581 ms
Loss rate: 0.02%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-08-27 06:01:14

End at: 2019-08-27 06:01:44

Local clock offset: -0.386 ms

Remote clock offset: 0.251 ms

Below is generated by plot.py at 2019-08-27 08:01:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.28 Mbit/s

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

Loss rate: 0.01%

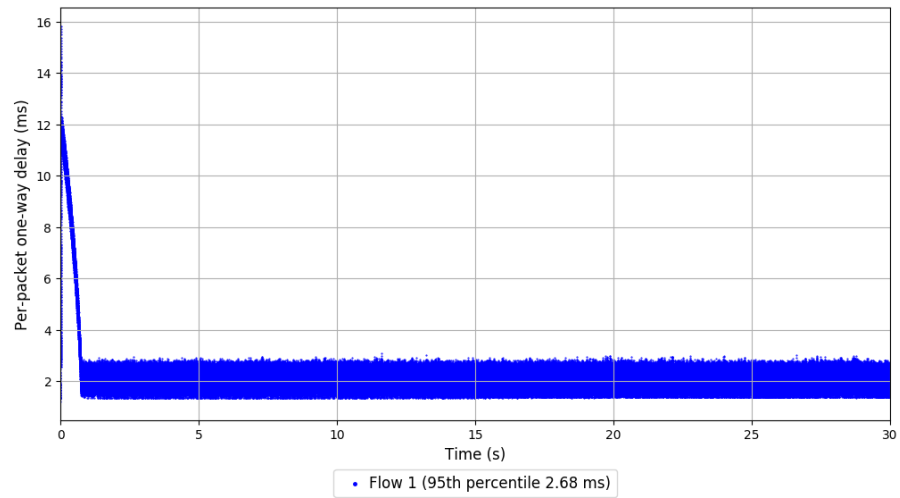
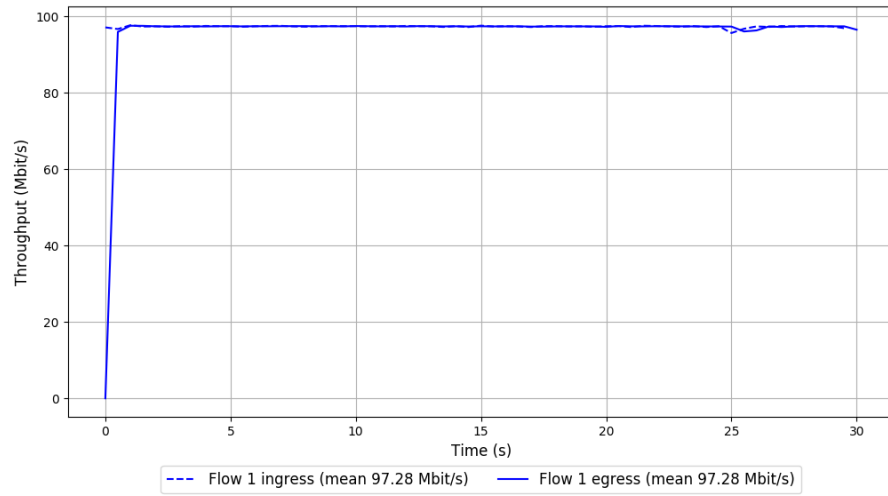
-- Flow 1:

Average throughput: 97.28 Mbit/s

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

Loss rate: 0.01%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-08-27 06:28:08

End at: 2019-08-27 06:28:38

Local clock offset: 0.321 ms

Remote clock offset: 0.745 ms

Below is generated by plot.py at 2019-08-27 08:01:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.22 Mbit/s

95th percentile per-packet one-way delay: 3.311 ms

Loss rate: 0.02%

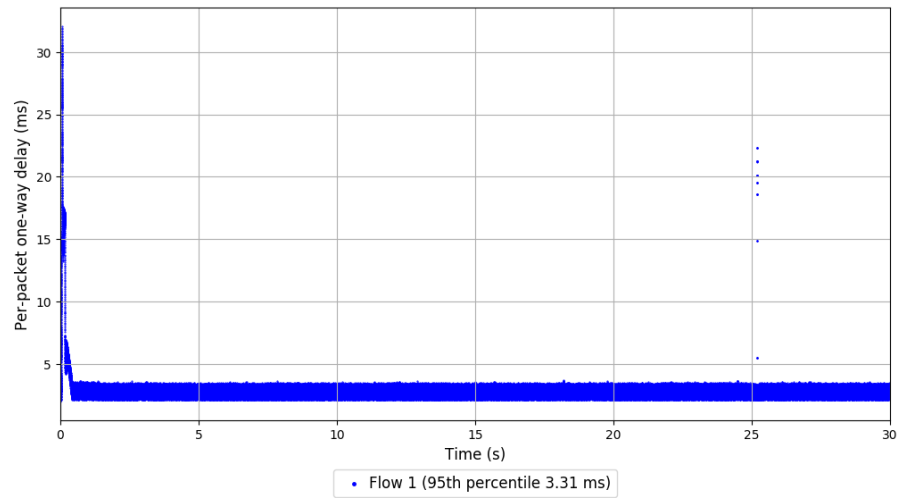
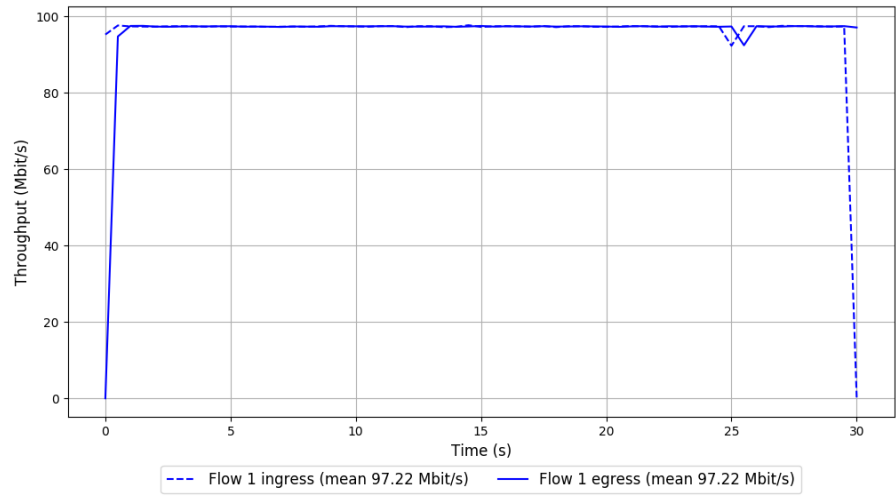
-- Flow 1:

Average throughput: 97.22 Mbit/s

95th percentile per-packet one-way delay: 3.311 ms

Loss rate: 0.02%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-08-27 06:55:06

End at: 2019-08-27 06:55:36

Local clock offset: -0.485 ms

Remote clock offset: 0.81 ms

Below is generated by plot.py at 2019-08-27 08:02:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.17 Mbit/s

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

Loss rate: 0.01%

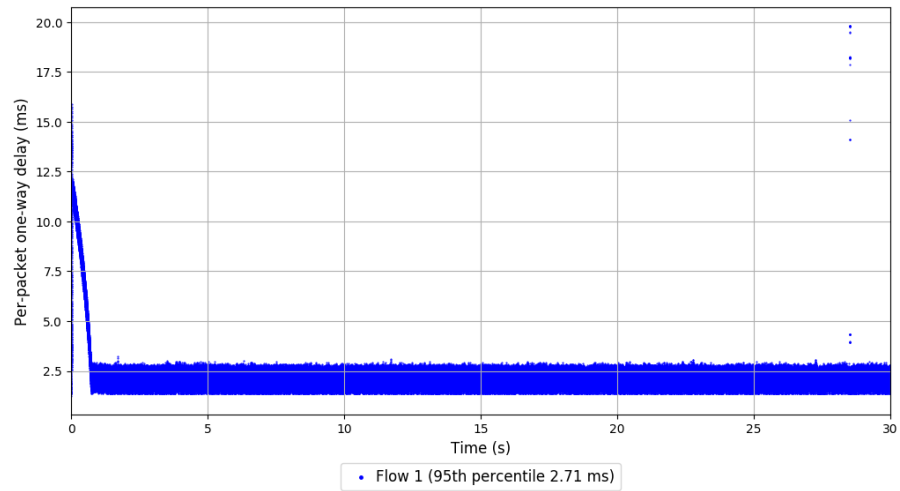
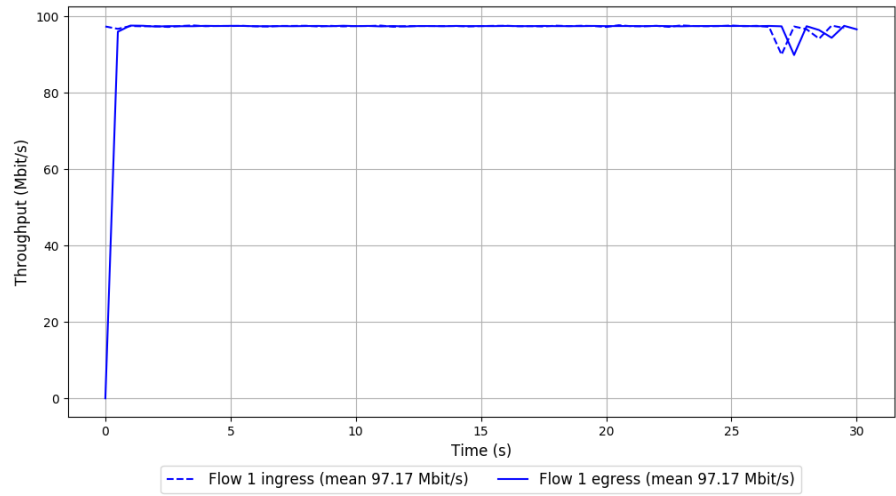
-- Flow 1:

Average throughput: 97.17 Mbit/s

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

Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-08-27 07:22:04

End at: 2019-08-27 07:22:34

Local clock offset: 0.261 ms

Remote clock offset: 0.83 ms

Below is generated by plot.py at 2019-08-27 08:02:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 3.411 ms

Loss rate: 0.00%

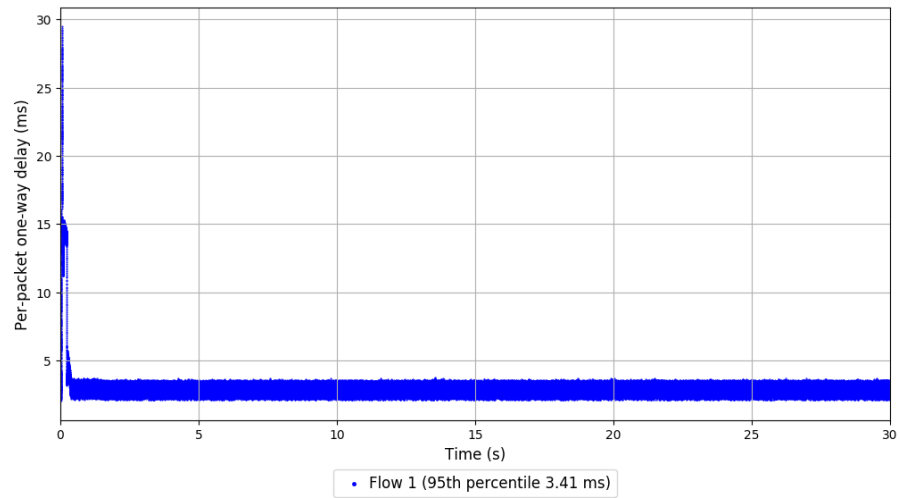
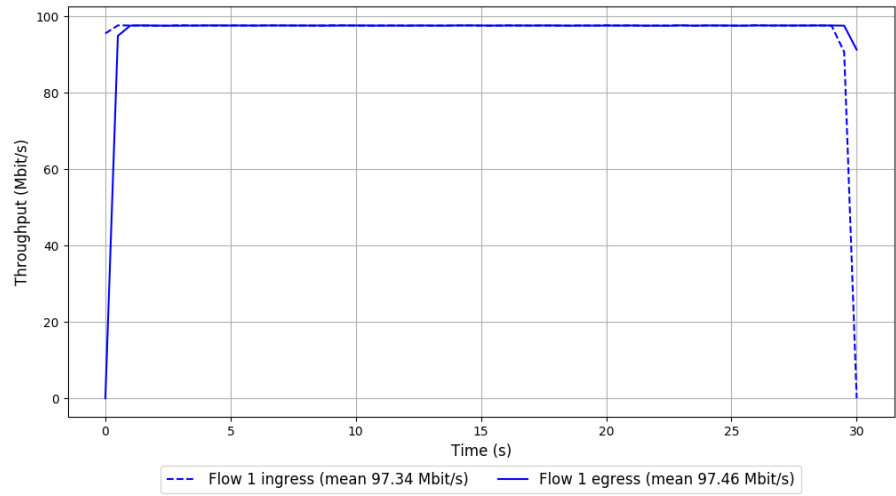
-- Flow 1:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 3.411 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-08-27 05:51:05

End at: 2019-08-27 05:51:35

Local clock offset: 0.413 ms

Remote clock offset: 0.19 ms

Below is generated by plot.py at 2019-08-27 08:02:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.69 Mbit/s

95th percentile per-packet one-way delay: 10.486 ms

Loss rate: 0.04%

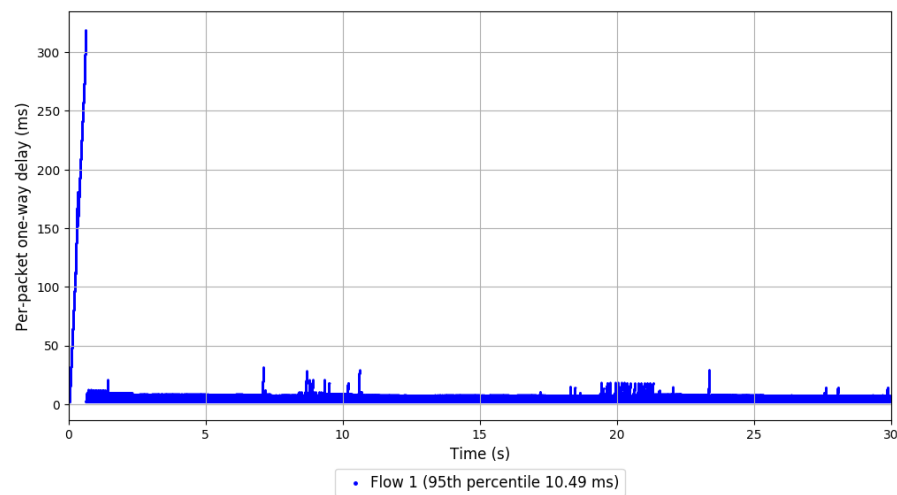
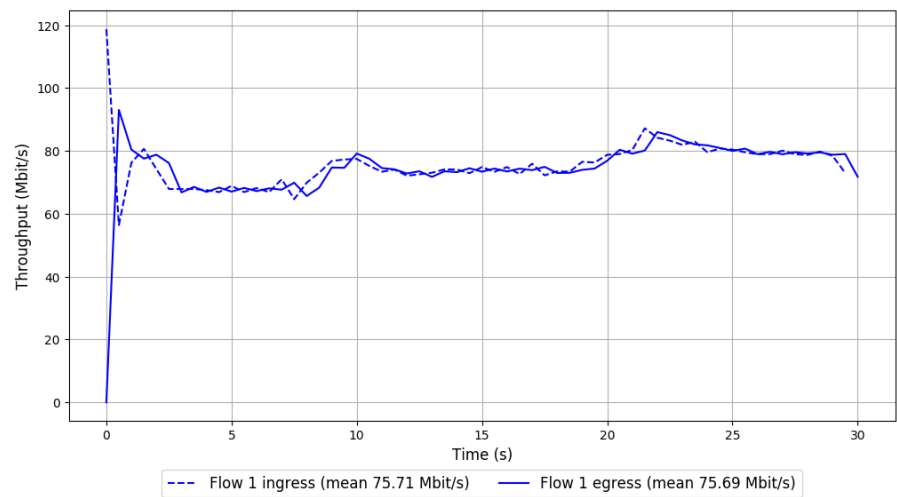
-- Flow 1:

Average throughput: 75.69 Mbit/s

95th percentile per-packet one-way delay: 10.486 ms

Loss rate: 0.04%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-08-27 06:18:01

End at: 2019-08-27 06:18:31

Local clock offset: -0.408 ms

Remote clock offset: 0.53 ms

Below is generated by plot.py at 2019-08-27 08:02:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.18 Mbit/s

95th percentile per-packet one-way delay: 53.521 ms

Loss rate: 0.04%

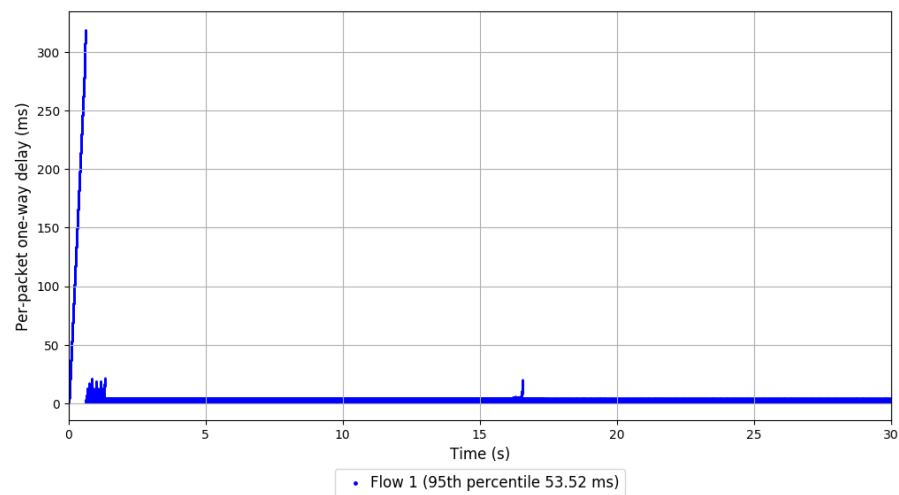
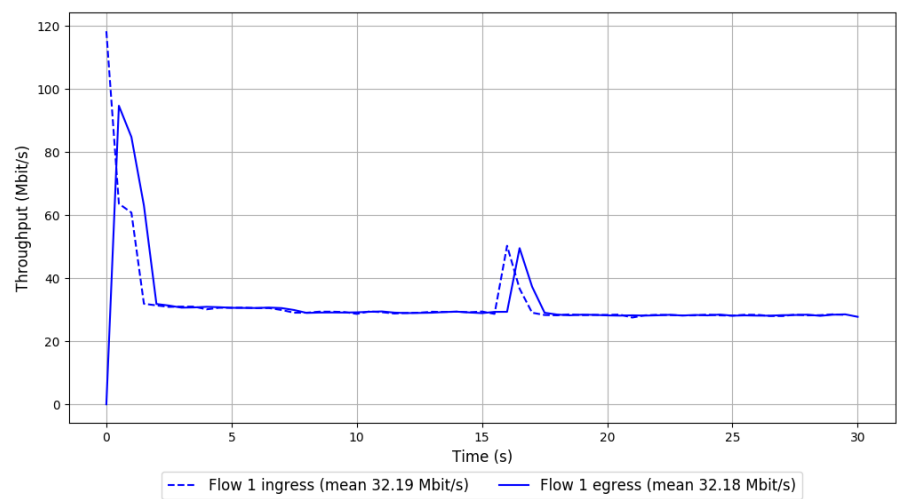
-- Flow 1:

Average throughput: 32.18 Mbit/s

95th percentile per-packet one-way delay: 53.521 ms

Loss rate: 0.04%

Run 2: Report of Verus — Data Link

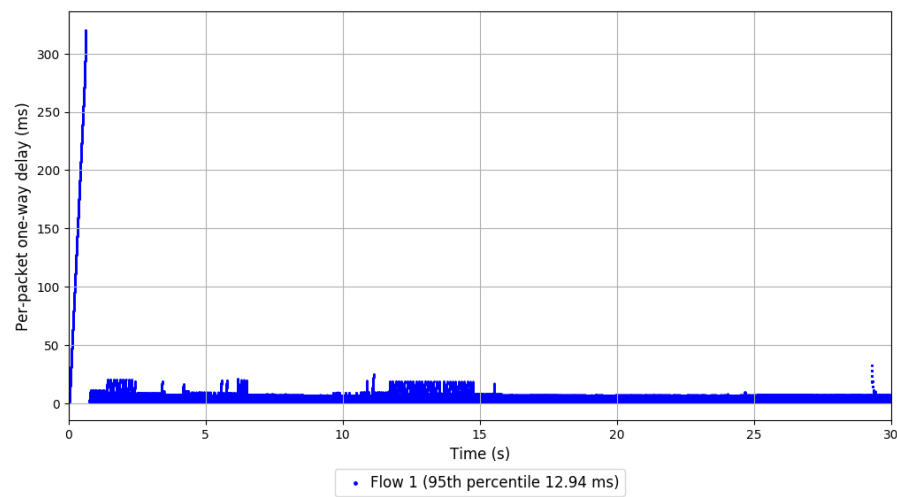
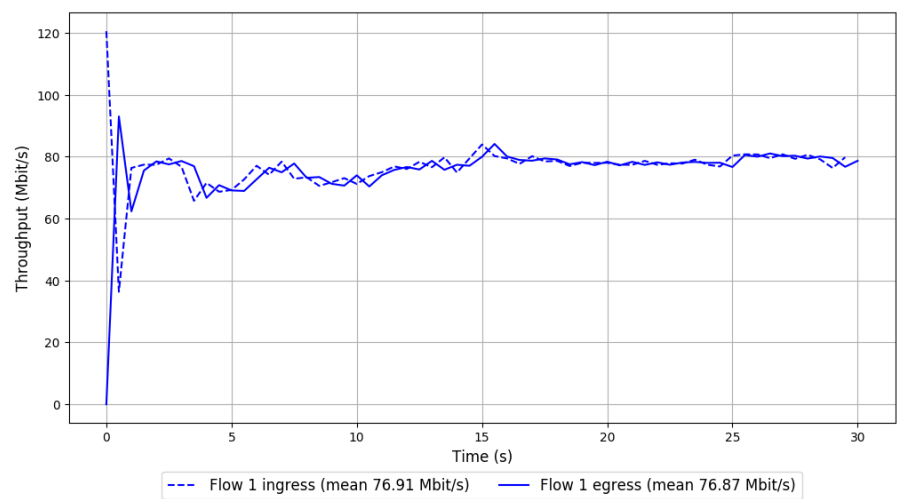


Run 3: Statistics of Verus

Start at: 2019-08-27 06:44:55
End at: 2019-08-27 06:45:25
Local clock offset: -0.485 ms
Remote clock offset: 0.884 ms

Below is generated by plot.py at 2019-08-27 08:02:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.87 Mbit/s
95th percentile per-packet one-way delay: 12.938 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 76.87 Mbit/s
95th percentile per-packet one-way delay: 12.938 ms
Loss rate: 0.05%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-08-27 07:11:54

End at: 2019-08-27 07:12:24

Local clock offset: 0.198 ms

Remote clock offset: 0.782 ms

Below is generated by plot.py at 2019-08-27 08:02:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.66 Mbit/s

95th percentile per-packet one-way delay: 11.239 ms

Loss rate: 0.04%

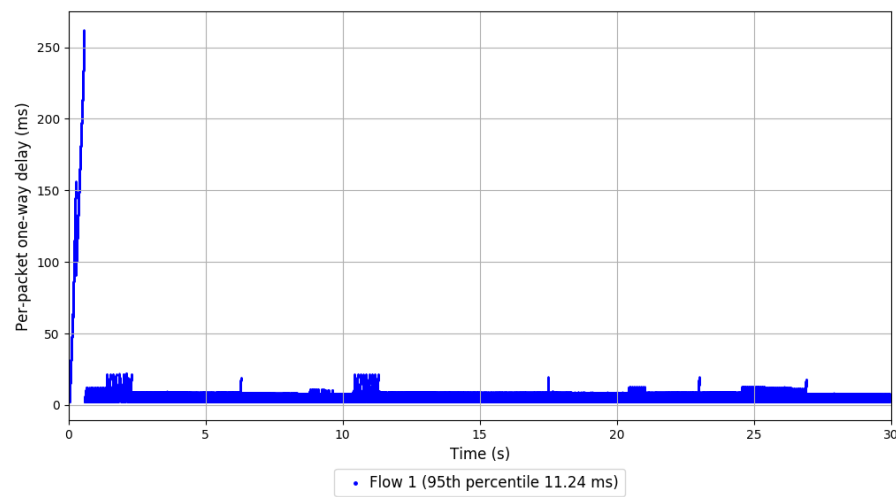
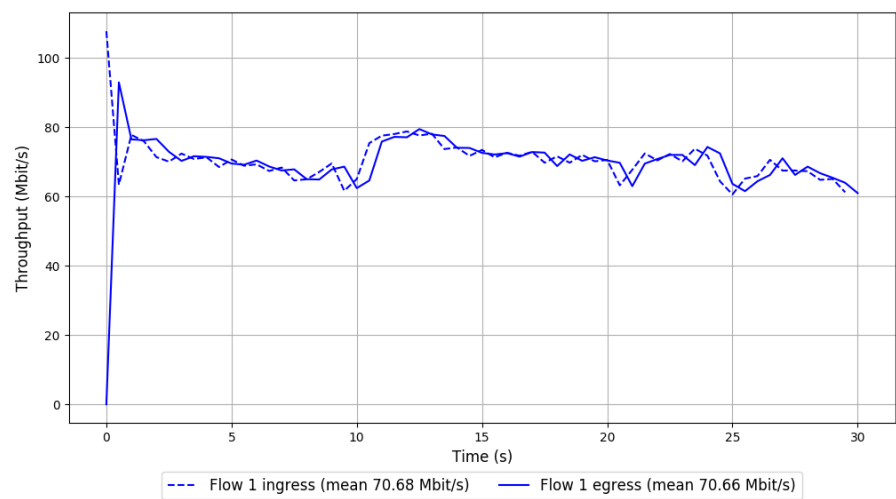
-- Flow 1:

Average throughput: 70.66 Mbit/s

95th percentile per-packet one-way delay: 11.239 ms

Loss rate: 0.04%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-08-27 07:38:54

End at: 2019-08-27 07:39:24

Local clock offset: -0.653 ms

Remote clock offset: 0.774 ms

Below is generated by plot.py at 2019-08-27 08:02:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.39 Mbit/s

95th percentile per-packet one-way delay: 25.859 ms

Loss rate: 0.01%

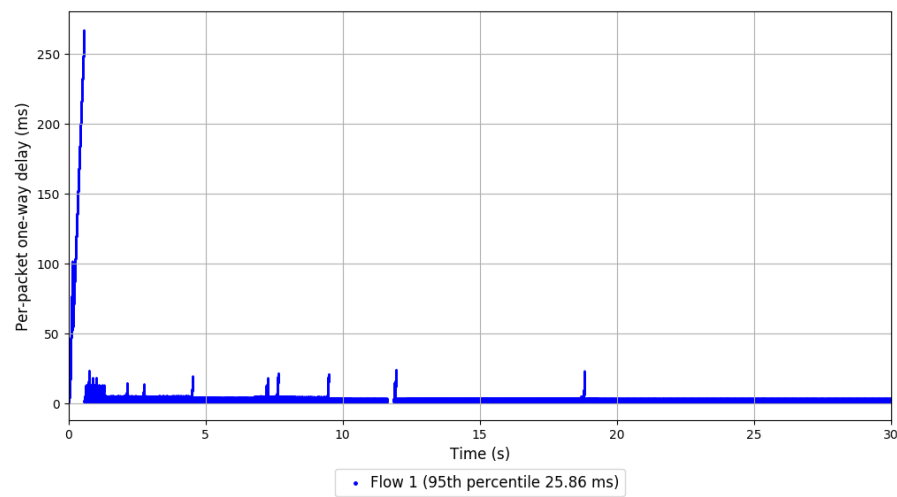
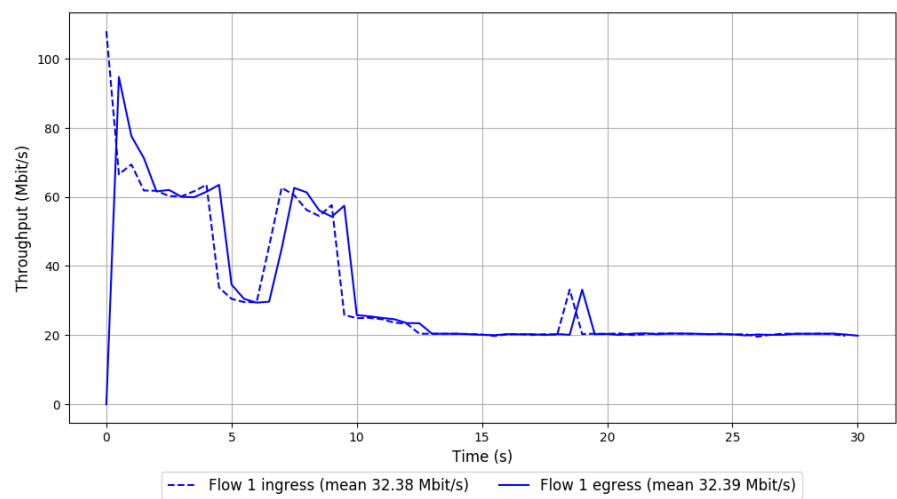
-- Flow 1:

Average throughput: 32.39 Mbit/s

95th percentile per-packet one-way delay: 25.859 ms

Loss rate: 0.01%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-08-27 05:52:13

End at: 2019-08-27 05:52:43

Local clock offset: 0.397 ms

Remote clock offset: 0.071 ms

Below is generated by plot.py at 2019-08-27 08:02:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.30 Mbit/s

95th percentile per-packet one-way delay: 2.218 ms

Loss rate: 0.02%

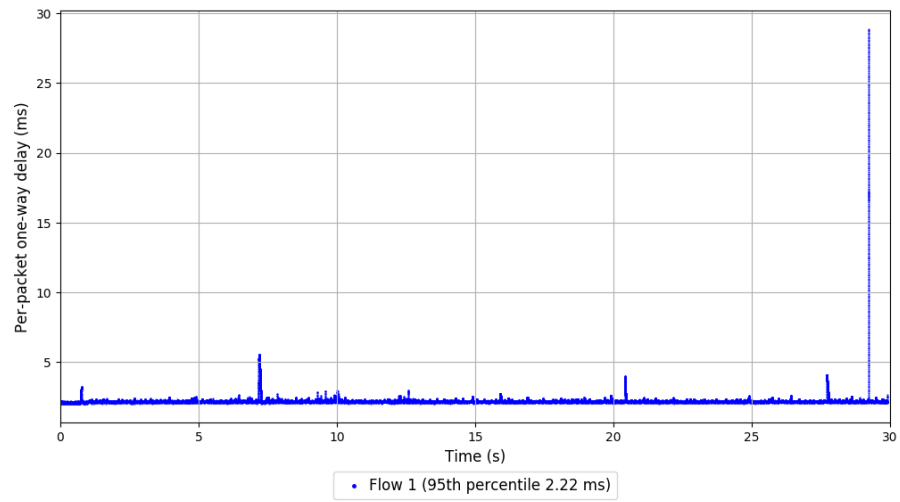
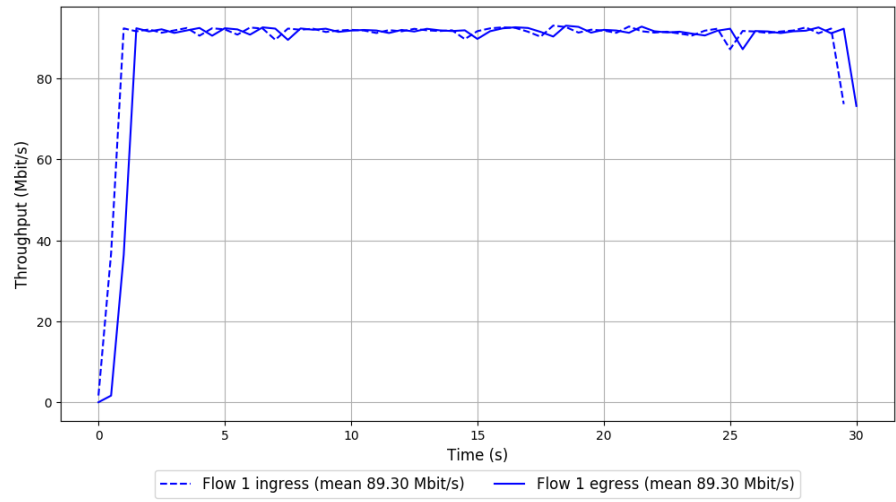
-- Flow 1:

Average throughput: 89.30 Mbit/s

95th percentile per-packet one-way delay: 2.218 ms

Loss rate: 0.02%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-08-27 06:19:07

End at: 2019-08-27 06:19:37

Local clock offset: 0.367 ms

Remote clock offset: 0.577 ms

Below is generated by plot.py at 2019-08-27 08:02:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.12 Mbit/s

95th percentile per-packet one-way delay: 2.175 ms

Loss rate: 0.02%

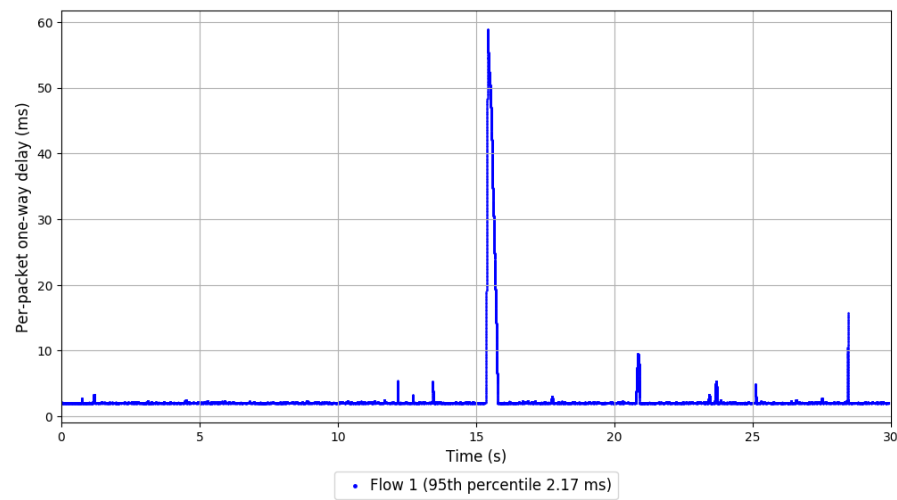
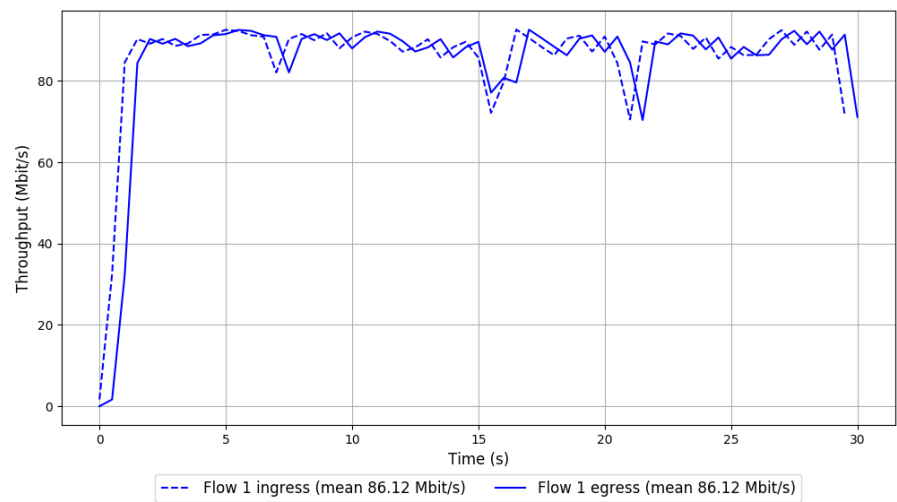
-- Flow 1:

Average throughput: 86.12 Mbit/s

95th percentile per-packet one-way delay: 2.175 ms

Loss rate: 0.02%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-08-27 06:46:04

End at: 2019-08-27 06:46:34

Local clock offset: 0.299 ms

Remote clock offset: 0.838 ms

Below is generated by plot.py at 2019-08-27 08:02:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.47 Mbit/s

95th percentile per-packet one-way delay: 2.195 ms

Loss rate: 0.02%

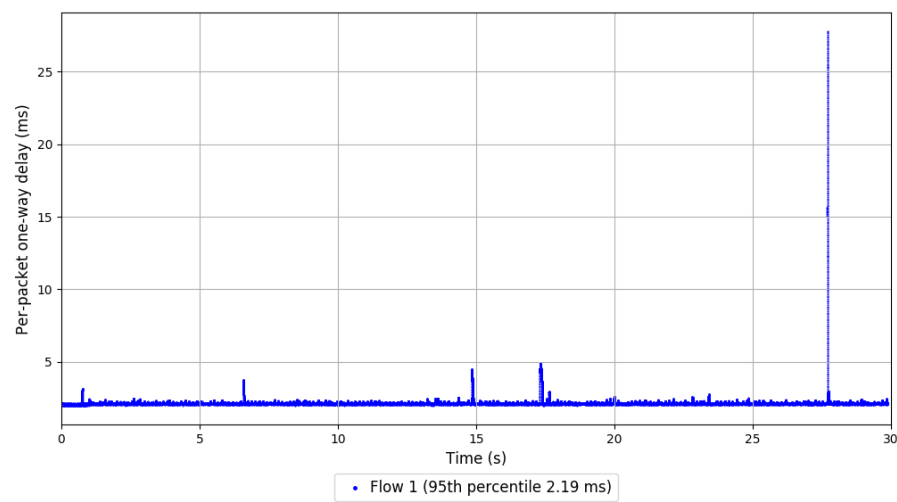
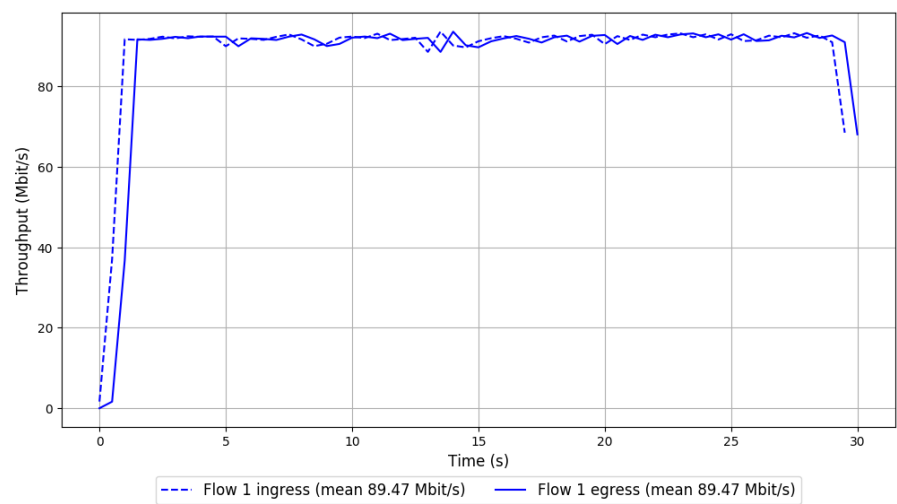
-- Flow 1:

Average throughput: 89.47 Mbit/s

95th percentile per-packet one-way delay: 2.195 ms

Loss rate: 0.02%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-08-27 07:13:02

End at: 2019-08-27 07:13:32

Local clock offset: 0.242 ms

Remote clock offset: 0.773 ms

Below is generated by plot.py at 2019-08-27 08:02:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.30 Mbit/s

95th percentile per-packet one-way delay: 2.200 ms

Loss rate: 0.02%

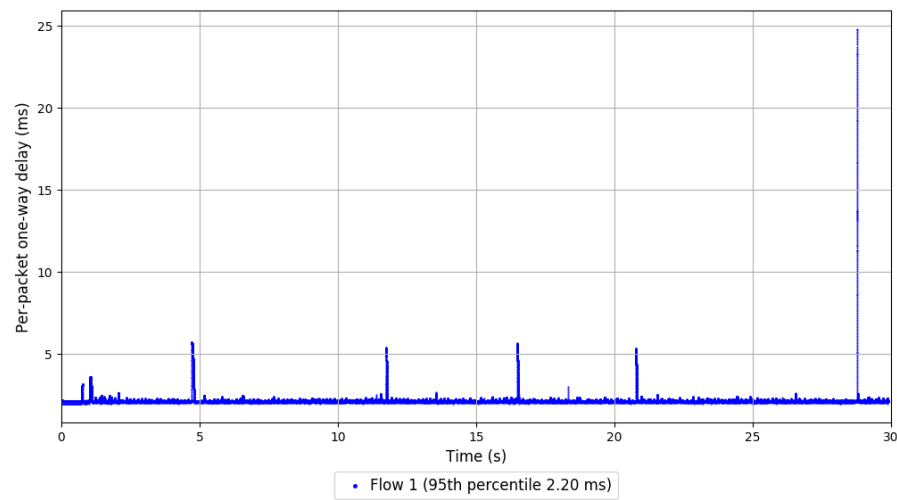
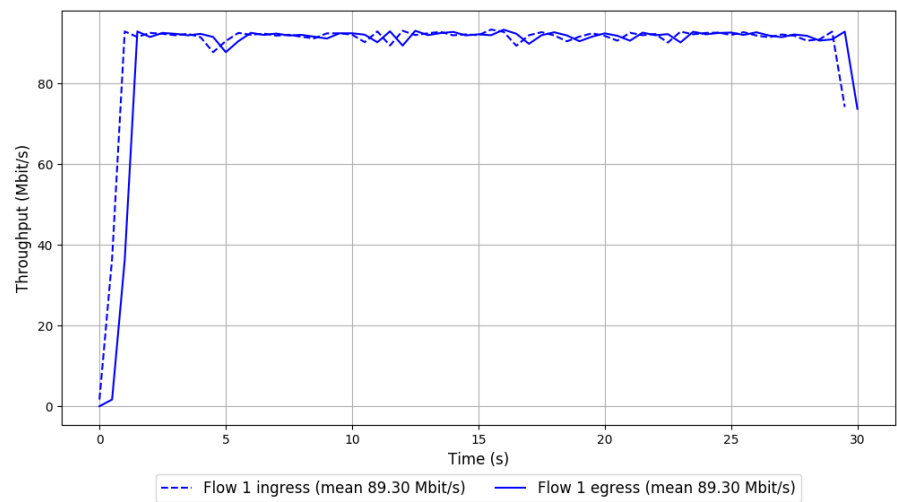
-- Flow 1:

Average throughput: 89.30 Mbit/s

95th percentile per-packet one-way delay: 2.200 ms

Loss rate: 0.02%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-08-27 07:40:00

End at: 2019-08-27 07:40:30

Local clock offset: 0.182 ms

Remote clock offset: 0.824 ms

Below is generated by plot.py at 2019-08-27 08:02:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.58 Mbit/s

95th percentile per-packet one-way delay: 2.212 ms

Loss rate: 0.02%

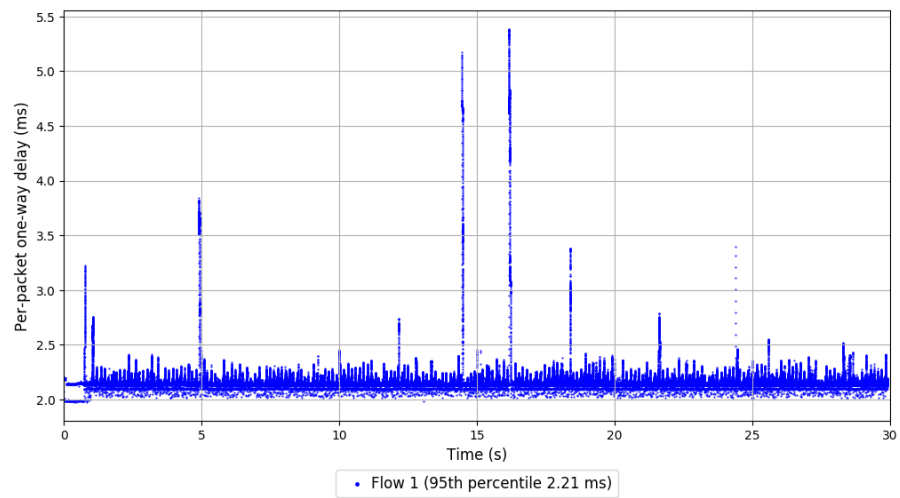
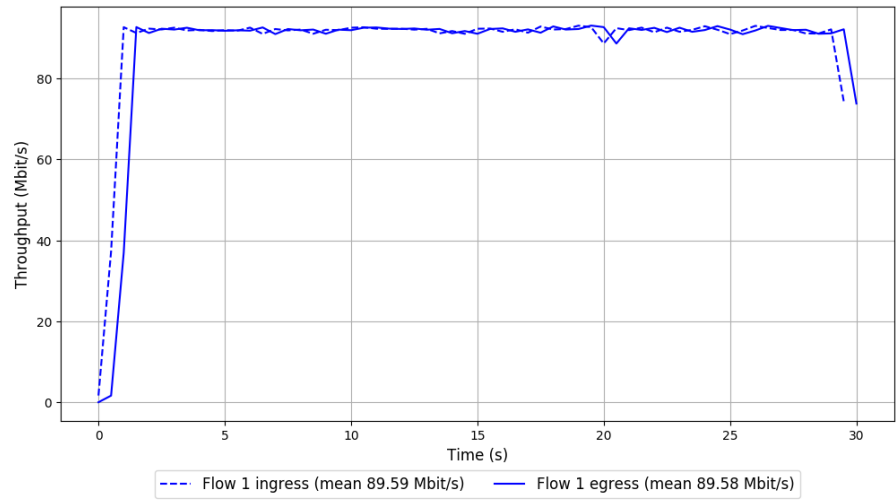
-- Flow 1:

Average throughput: 89.58 Mbit/s

95th percentile per-packet one-way delay: 2.212 ms

Loss rate: 0.02%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-08-27 05:48:49

End at: 2019-08-27 05:49:19

Local clock offset: -0.452 ms

Remote clock offset: 0.072 ms

Below is generated by plot.py at 2019-08-27 08:02:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 1.782 ms

Loss rate: 0.00%

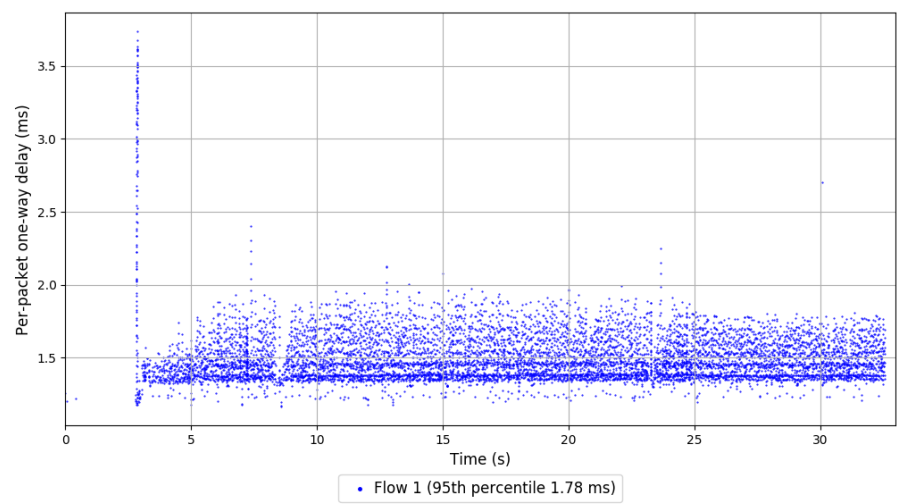
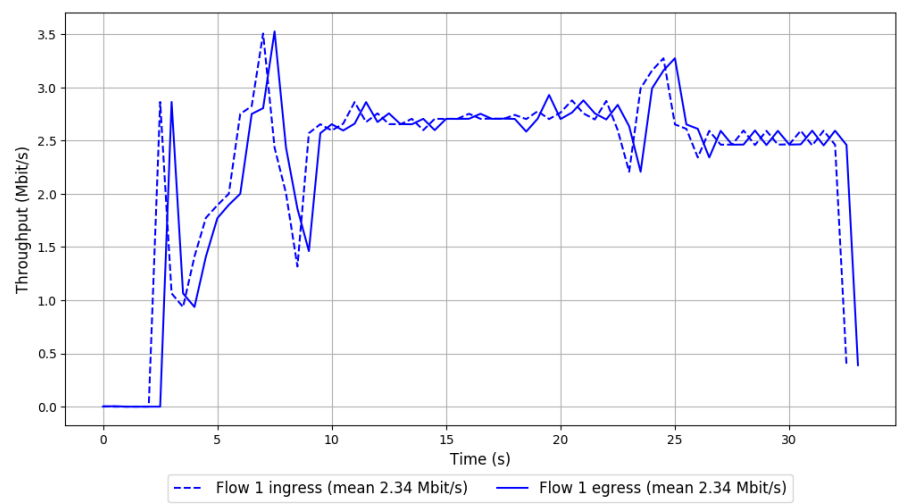
-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 1.782 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-08-27 06:15:46

End at: 2019-08-27 06:16:16

Local clock offset: -0.431 ms

Remote clock offset: 0.527 ms

Below is generated by plot.py at 2019-08-27 08:02:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 1.708 ms

Loss rate: 0.00%

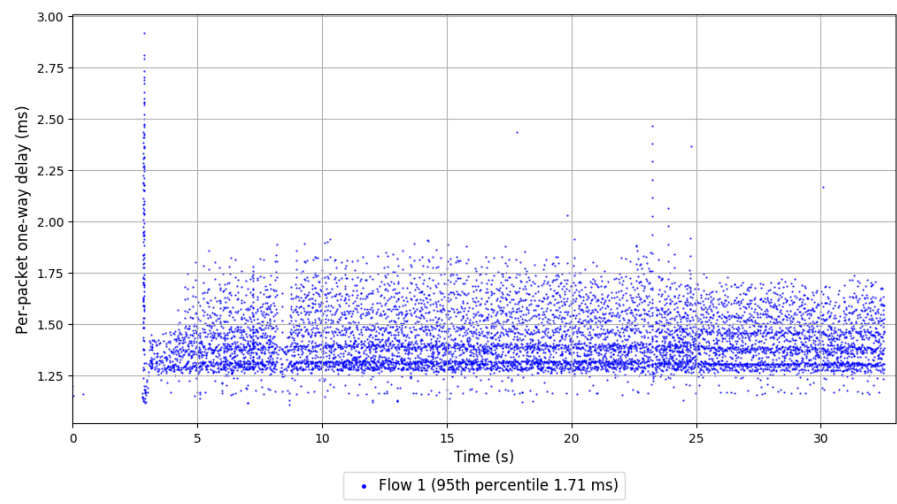
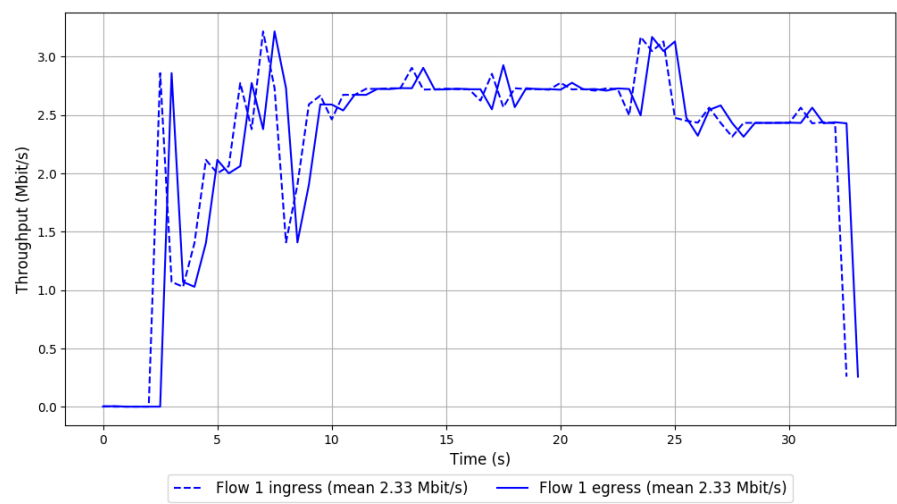
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 1.708 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-08-27 06:42:40

End at: 2019-08-27 06:43:10

Local clock offset: 0.311 ms

Remote clock offset: 0.852 ms

Below is generated by plot.py at 2019-08-27 08:02:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.41 Mbit/s

95th percentile per-packet one-way delay: 2.662 ms

Loss rate: 0.00%

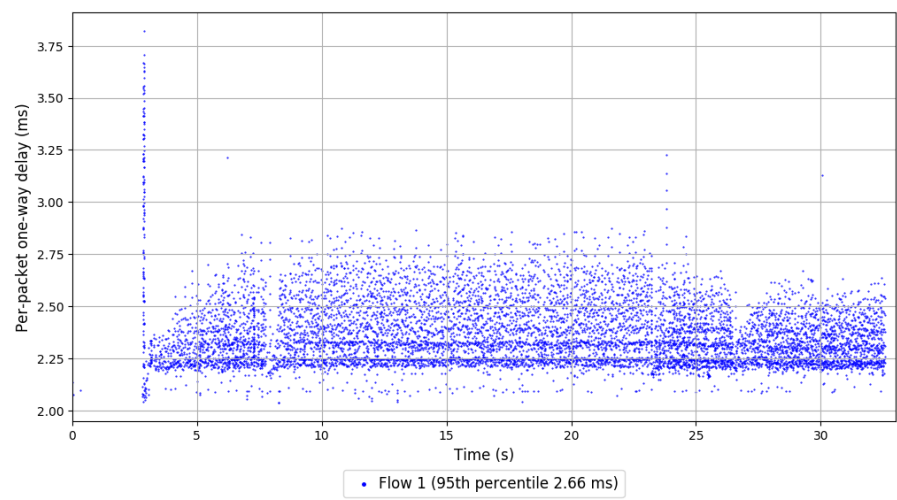
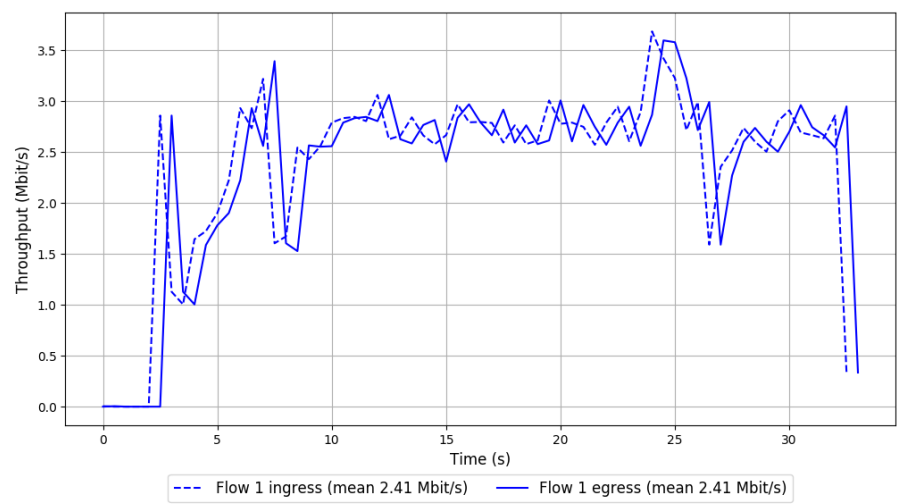
-- Flow 1:

Average throughput: 2.41 Mbit/s

95th percentile per-packet one-way delay: 2.662 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-08-27 07:09:38

End at: 2019-08-27 07:10:08

Local clock offset: -0.496 ms

Remote clock offset: 0.866 ms

Below is generated by plot.py at 2019-08-27 08:02:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 1.738 ms

Loss rate: 0.00%

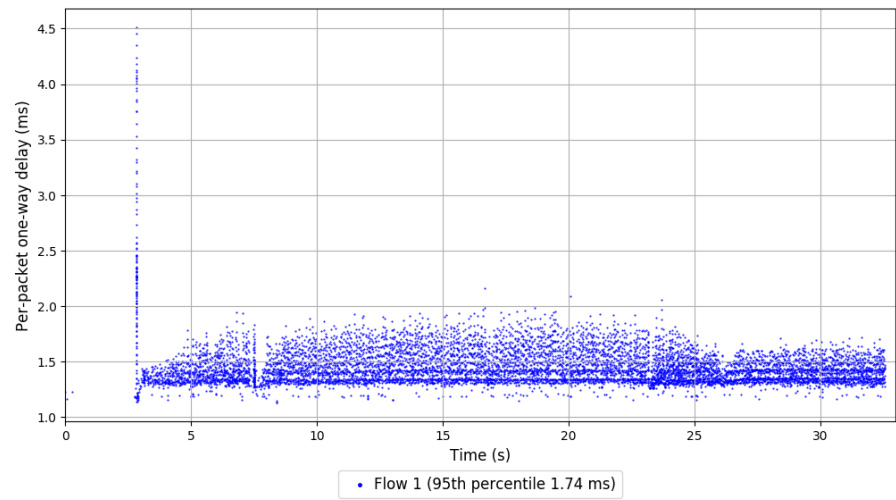
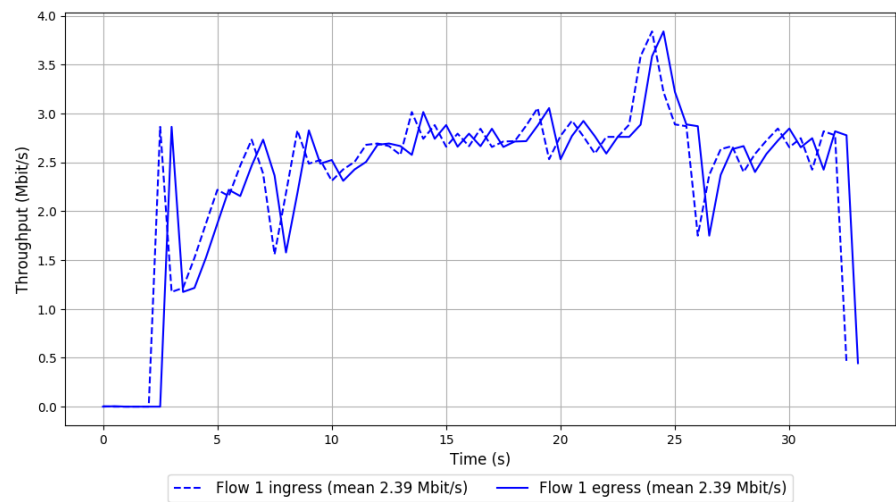
-- Flow 1:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 1.738 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-08-27 07:36:39

End at: 2019-08-27 07:37:09

Local clock offset: 0.192 ms

Remote clock offset: 0.848 ms

Below is generated by plot.py at 2019-08-27 08:02:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 2.521 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 2.521 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

