

Pantheon Report

Generated at 2019-07-12 01:06:24 (UTC).

Data path: AWS Brazil 1 on `ens5` (*local*) → Brazil on `p4p1` (*remote*).

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:

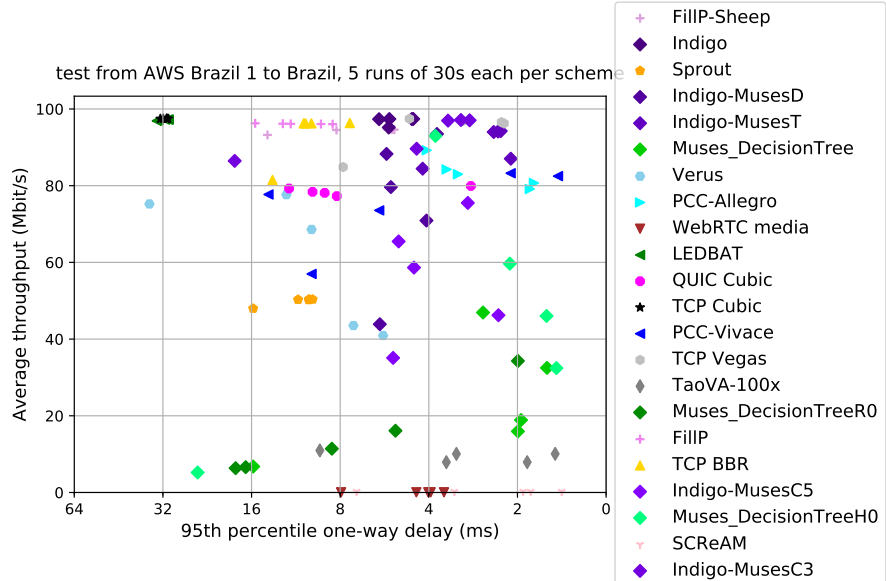
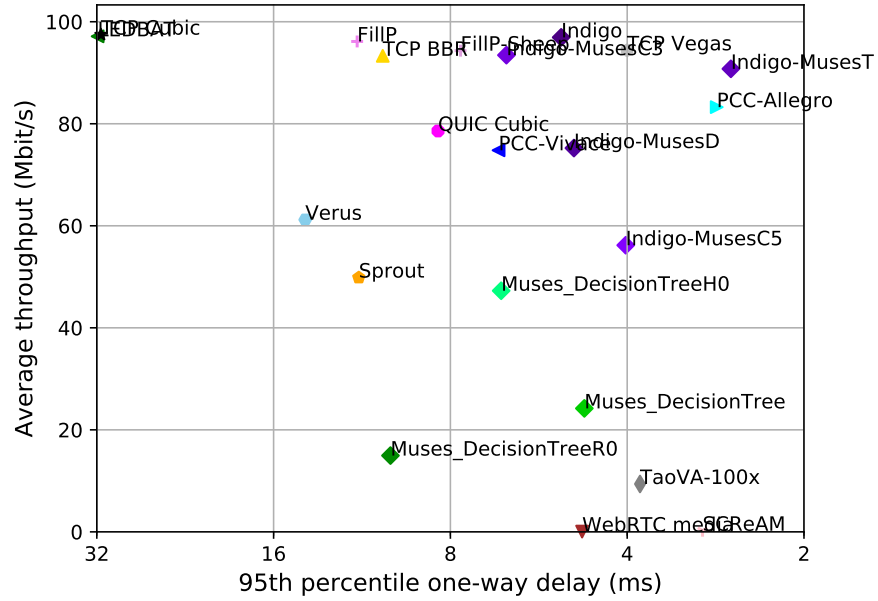
```
Linux 4.15.0-1041-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ 2076e1149a241f3edb4365d686df32342bf9561f
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 @ 8bb93ffff2b107204a92d8b72449fc0c55e15f00
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 AWS Brazil 1 to Brazil, 5 runs of 30s each per scheme
(mean of all runs by scheme)



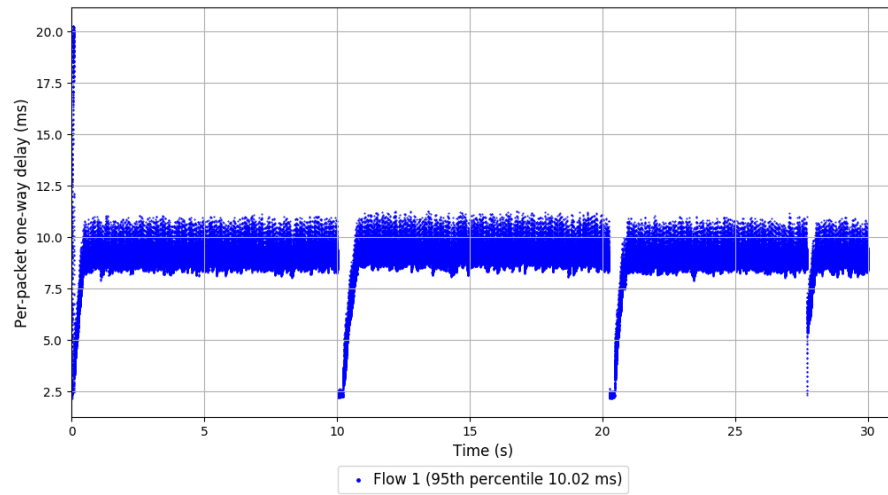
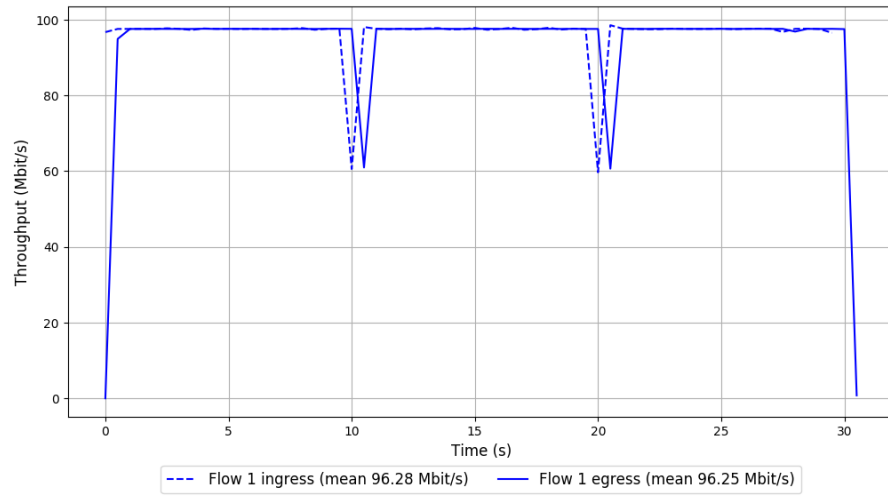
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	93.32	10.43	0.00
Copa	0	N/A	N/A	N/A
TCP Cubic	5	97.47	31.49	0.01
FillP	5	96.13	11.53	0.27
FillP-Sheep	5	94.33	7.69	0.10
Indigo	5	96.93	5.18	0.00
Indigo-MusesC3	5	93.45	6.42	0.00
Indigo-MusesC5	5	56.19	4.02	0.00
Indigo-MusesD	5	75.24	4.93	0.00
Indigo-MusesT	5	90.77	2.66	0.00
LEDBAT	5	97.14	31.90	0.02
Muses_DecisionTree	5	24.20	4.73	0.22
Muses_DecisionTreeH0	5	47.27	6.56	0.27
Muses_DecisionTreeR0	5	14.96	10.12	0.37
PCC-Allegro	5	83.26	2.82	0.00
PCC-Expr	0	N/A	N/A	N/A
QUIC Cubic	5	78.60	8.40	0.29
SCReAM	5	0.22	2.98	0.00
Sprout	5	49.85	11.46	0.00
TaoVA-100x	5	9.38	3.80	77.45
TCP Vegas	5	94.40	4.00	0.00
Verus	5	61.19	14.13	1.99
PCC-Vivace	5	74.80	6.62	0.12
WebRTC media	5	0.05	4.77	0.01

Run 1: Statistics of TCP BBR

Start at: 2019-07-11 23:03:37
End at: 2019-07-11 23:04:07
Local clock offset: -0.355 ms
Remote clock offset: -0.195 ms

Below is generated by plot.py at 2019-07-12 00:56:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.25 Mbit/s
95th percentile per-packet one-way delay: 10.019 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.25 Mbit/s
95th percentile per-packet one-way delay: 10.019 ms
Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-07-11 23:30:18

End at: 2019-07-11 23:30:48

Local clock offset: -1.672 ms

Remote clock offset: 0.012 ms

Below is generated by plot.py at 2019-07-12 00:56:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.34 Mbit/s

95th percentile per-packet one-way delay: 7.419 ms

Loss rate: 0.00%

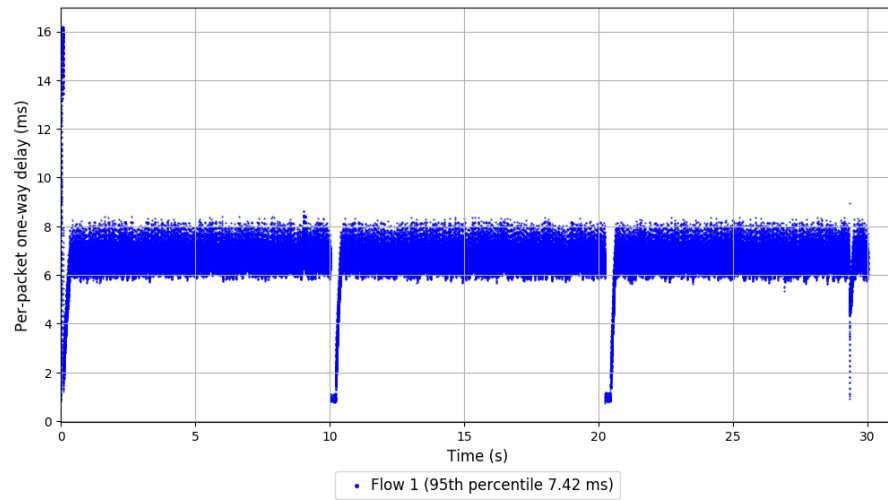
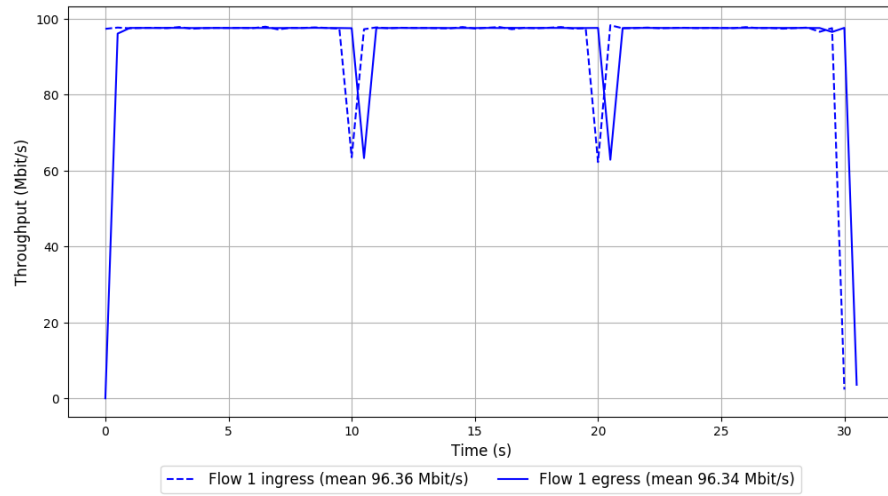
-- Flow 1:

Average throughput: 96.34 Mbit/s

95th percentile per-packet one-way delay: 7.419 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-07-11 23:57:04

End at: 2019-07-11 23:57:34

Local clock offset: -2.875 ms

Remote clock offset: 0.135 ms

Below is generated by plot.py at 2019-07-12 00:56:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.49 Mbit/s

95th percentile per-packet one-way delay: 13.581 ms

Loss rate: 0.00%

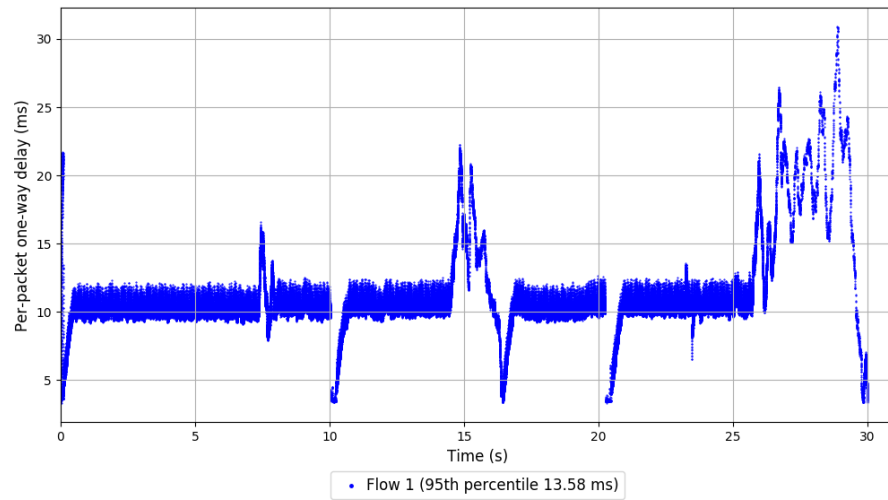
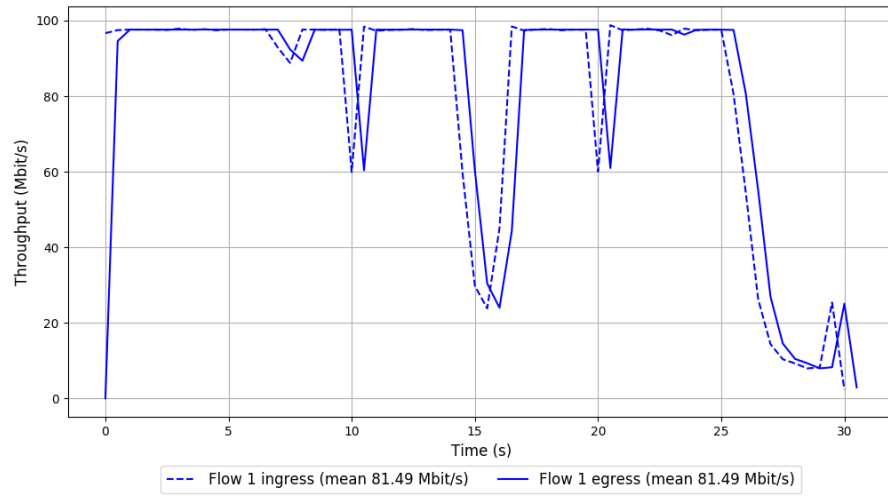
-- Flow 1:

Average throughput: 81.49 Mbit/s

95th percentile per-packet one-way delay: 13.581 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-07-12 00:23:50

End at: 2019-07-12 00:24:20

Local clock offset: -2.273 ms

Remote clock offset: 0.279 ms

Below is generated by plot.py at 2019-07-12 00:56:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 10.639 ms

Loss rate: 0.00%

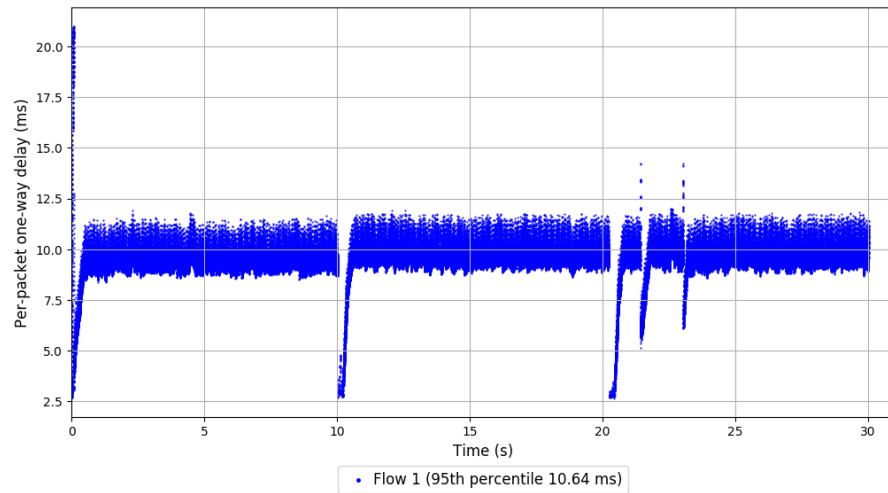
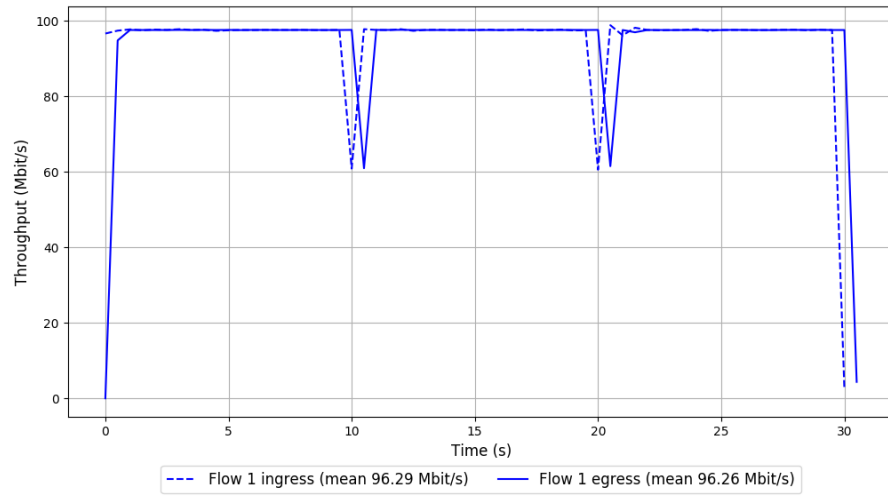
-- Flow 1:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 10.639 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-07-12 00:50:38

End at: 2019-07-12 00:51:08

Local clock offset: -1.967 ms

Remote clock offset: 0.266 ms

Below is generated by plot.py at 2019-07-12 00:56:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 10.489 ms

Loss rate: 0.00%

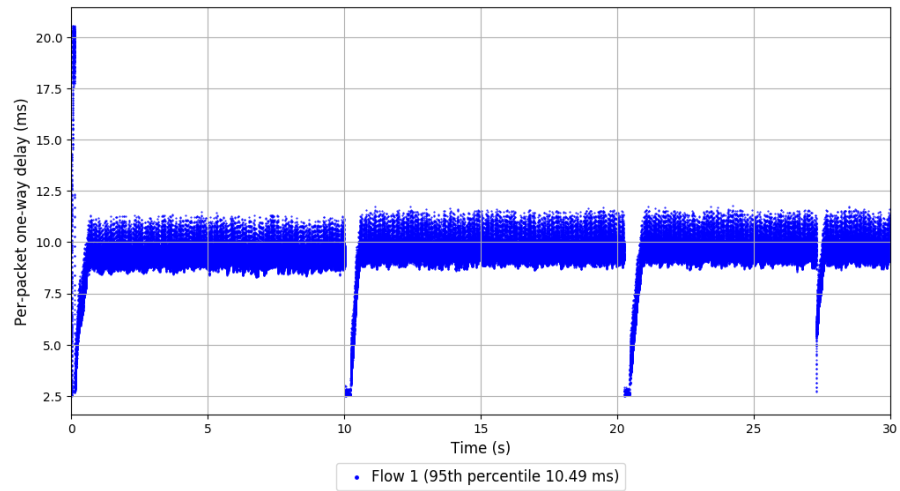
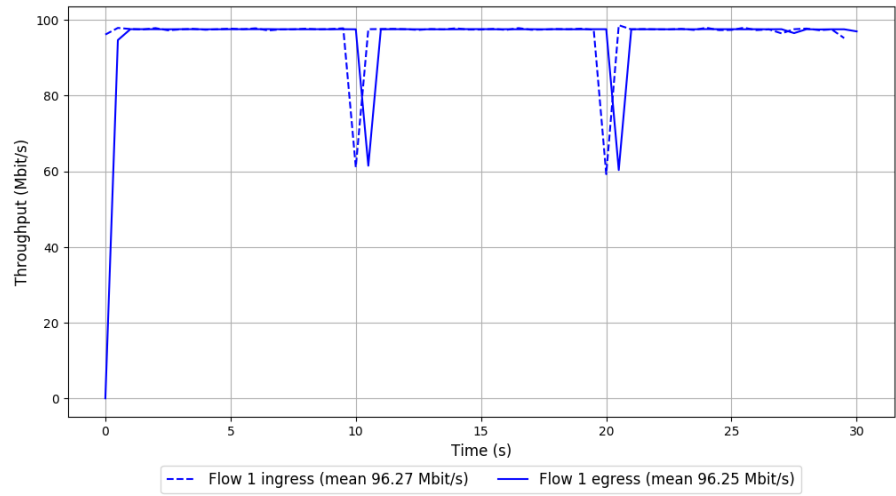
-- Flow 1:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 10.489 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

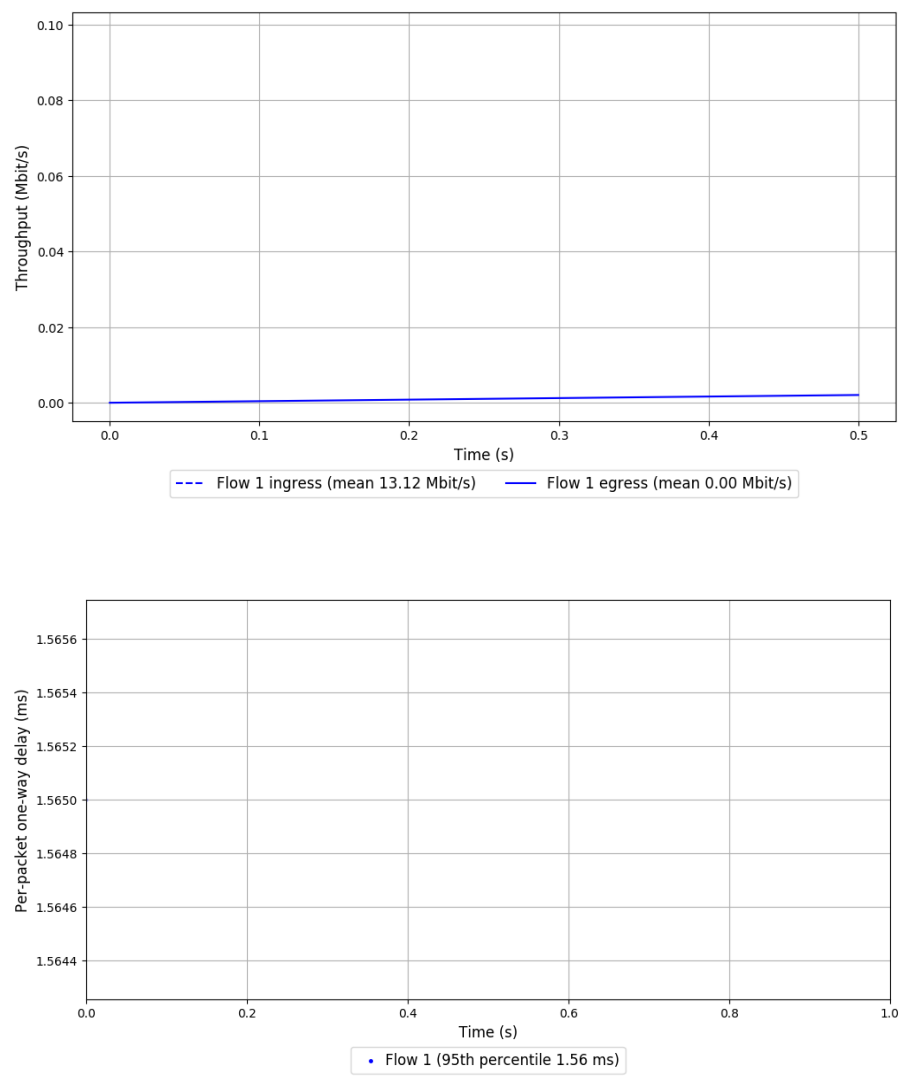
Start at: 2019-07-11 23:02:32

End at: 2019-07-11 23:03:02

Local clock offset: -1.018 ms

Remote clock offset: -0.147 ms

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

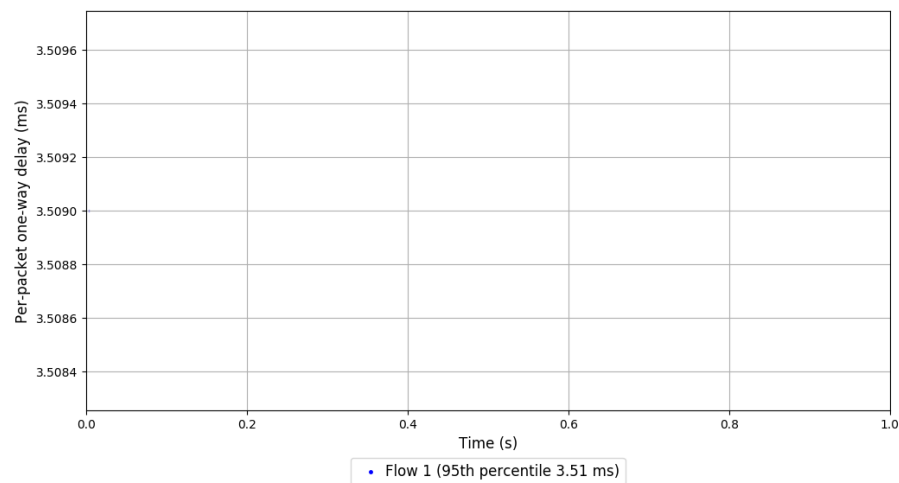
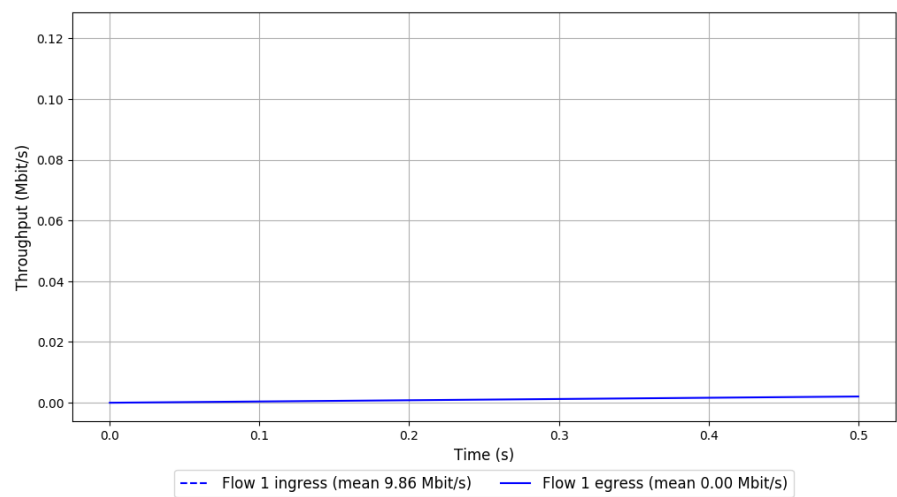
Start at: 2019-07-11 23:29:14

End at: 2019-07-11 23:29:44

Local clock offset: -2.682 ms

Remote clock offset: -0.085 ms

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

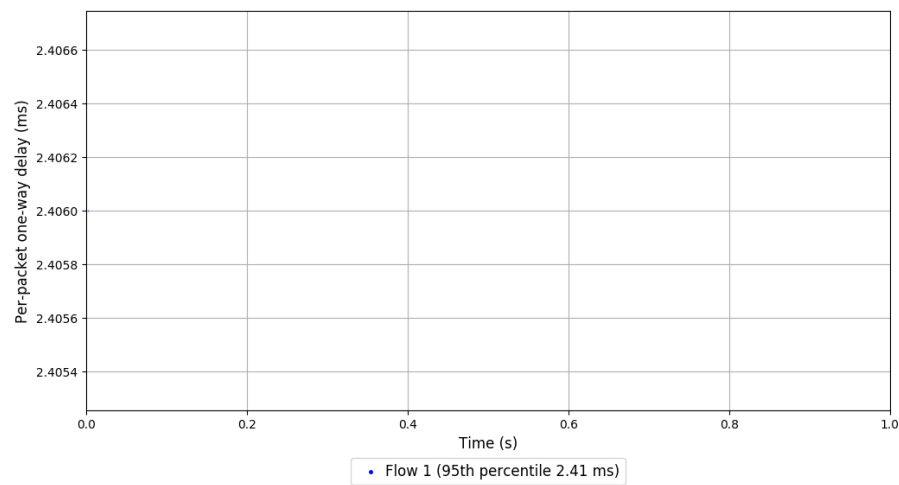
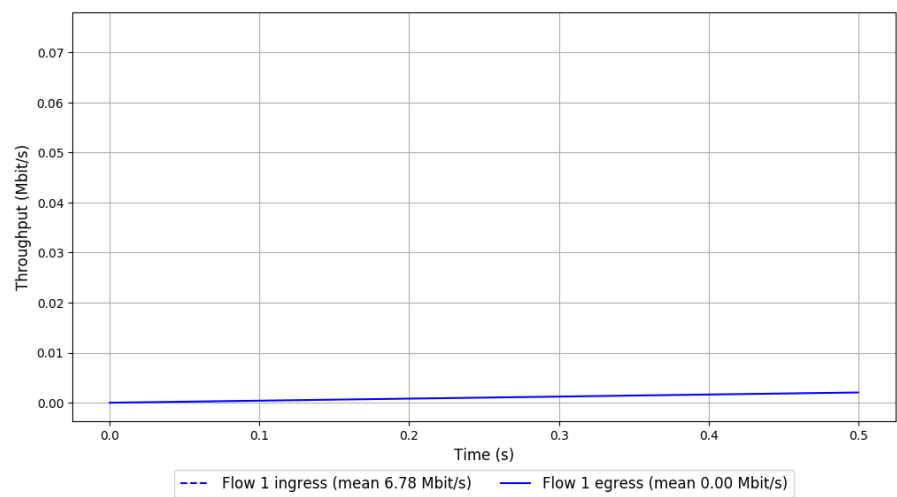
Start at: 2019-07-11 23:56:00

End at: 2019-07-11 23:56:30

Local clock offset: -1.866 ms

Remote clock offset: 0.178 ms

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

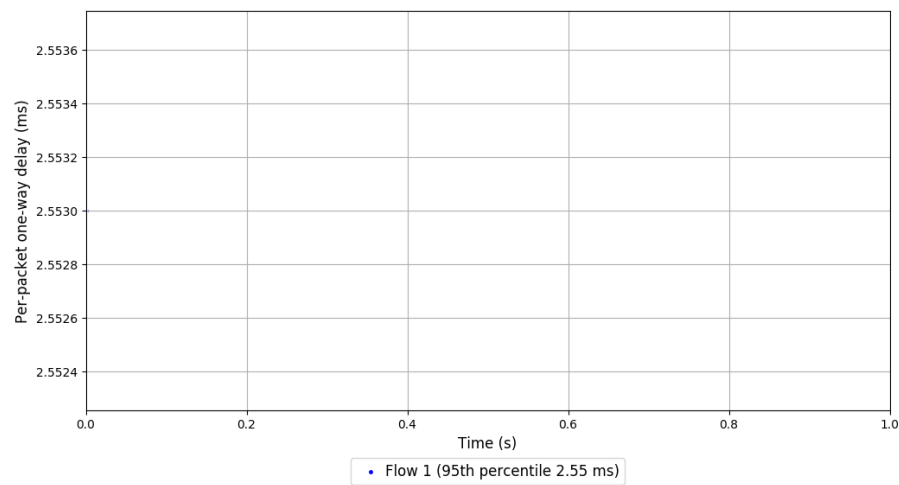
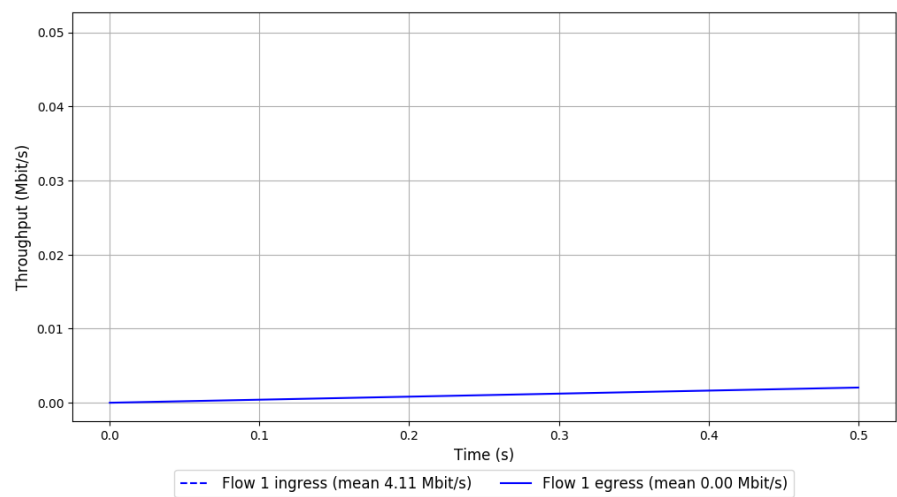
Start at: 2019-07-12 00:22:45

End at: 2019-07-12 00:23:15

Local clock offset: -2.024 ms

Remote clock offset: 0.285 ms

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

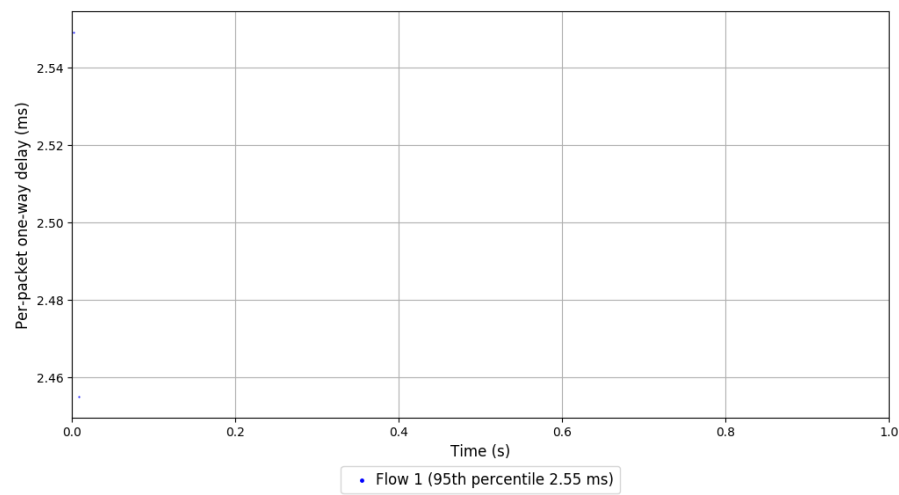
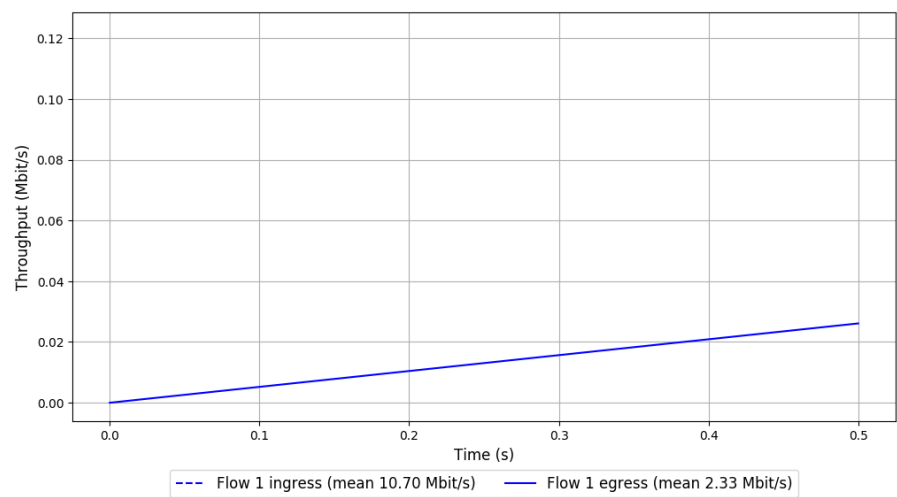
Start at: 2019-07-12 00:49:33

End at: 2019-07-12 00:50:03

Local clock offset: -1.75 ms

Remote clock offset: 0.338 ms

Run 5: Report of Copa — Data Link

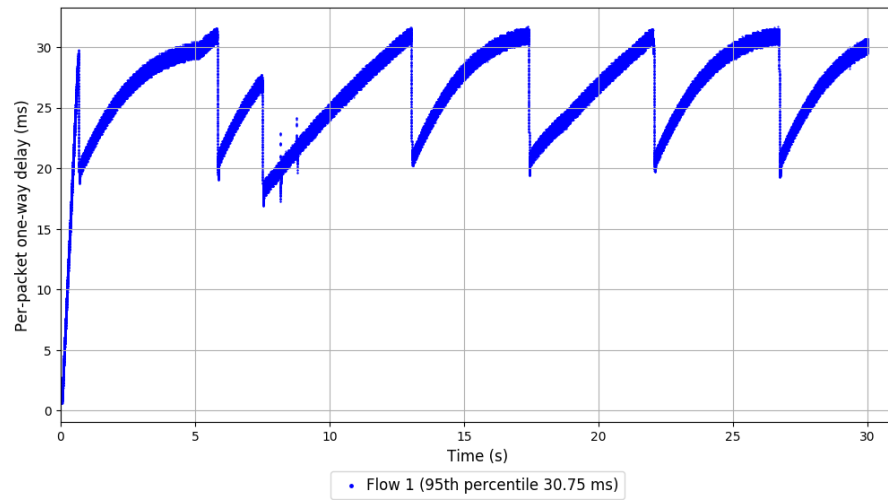
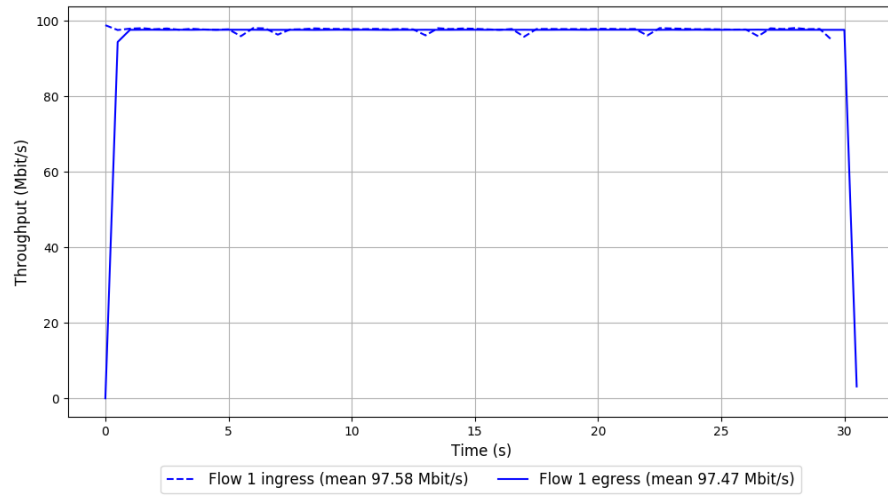


Run 1: Statistics of TCP Cubic

Start at: 2019-07-11 23:04:45
End at: 2019-07-11 23:05:15
Local clock offset: -0.533 ms
Remote clock offset: -0.209 ms

Below is generated by plot.py at 2019-07-12 00:56:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 30.749 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 30.749 ms
Loss rate: 0.01%

Run 1: Report of TCP Cubic — Data Link

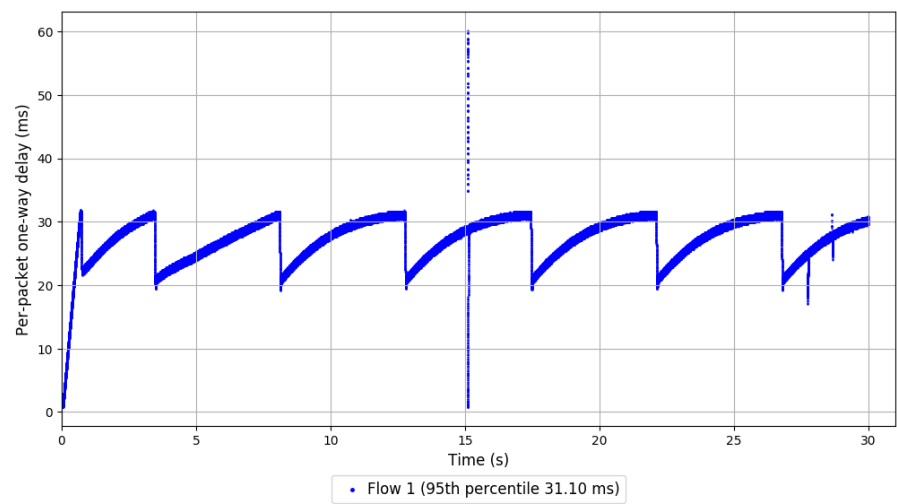
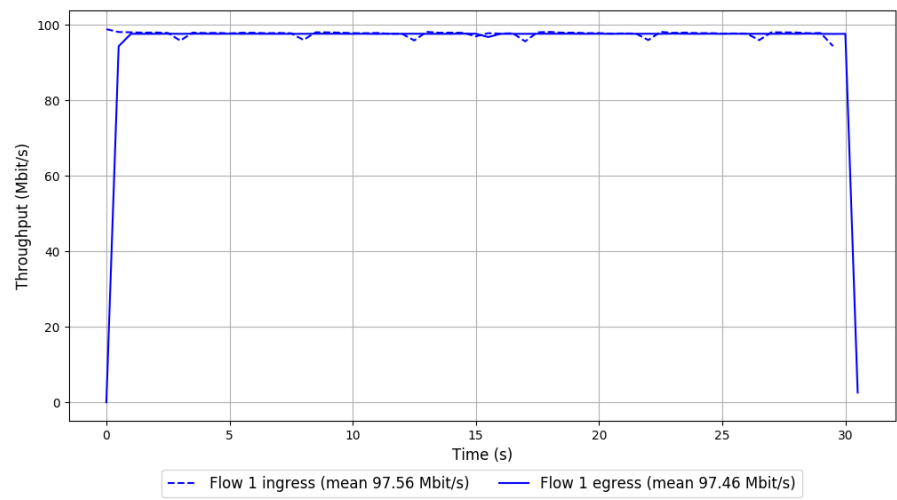


Run 2: Statistics of TCP Cubic

Start at: 2019-07-11 23:31:26
End at: 2019-07-11 23:31:56
Local clock offset: -1.71 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2019-07-12 00:56:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 31.102 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 31.102 ms
Loss rate: 0.01%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2019-07-11 23:58:12

End at: 2019-07-11 23:58:42

Local clock offset: -1.866 ms

Remote clock offset: 0.049 ms

Below is generated by plot.py at 2019-07-12 00:56:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.50 Mbit/s

95th percentile per-packet one-way delay: 31.051 ms

Loss rate: 0.01%

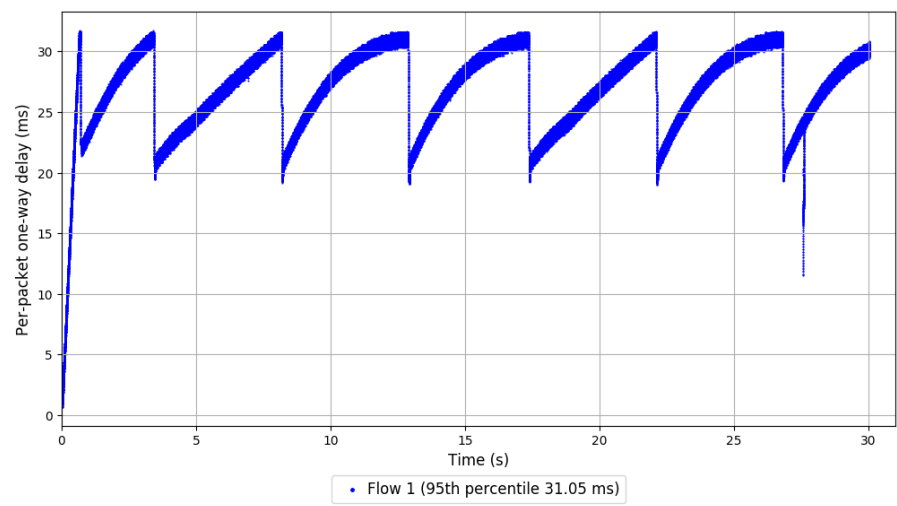
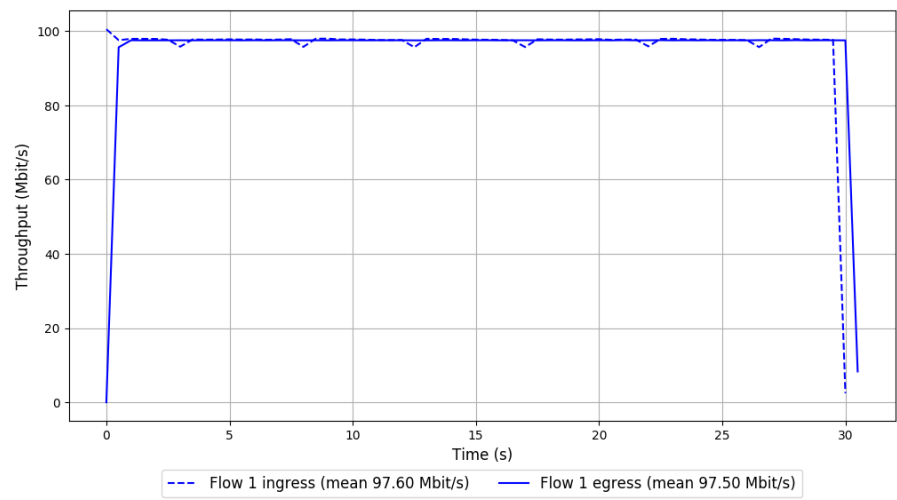
-- Flow 1:

Average throughput: 97.50 Mbit/s

95th percentile per-packet one-way delay: 31.051 ms

Loss rate: 0.01%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-07-12 00:24:58

End at: 2019-07-12 00:25:28

Local clock offset: -2.759 ms

Remote clock offset: 0.222 ms

Below is generated by plot.py at 2019-07-12 00:57:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 31.907 ms

Loss rate: 0.01%

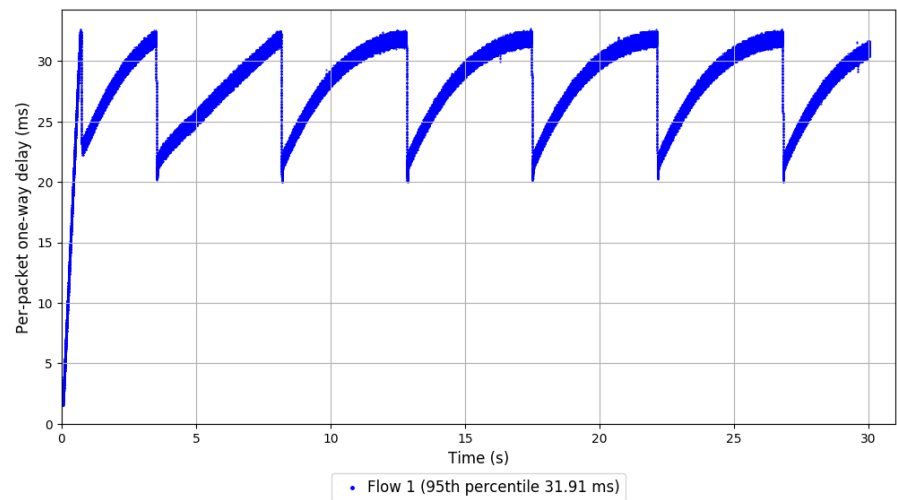
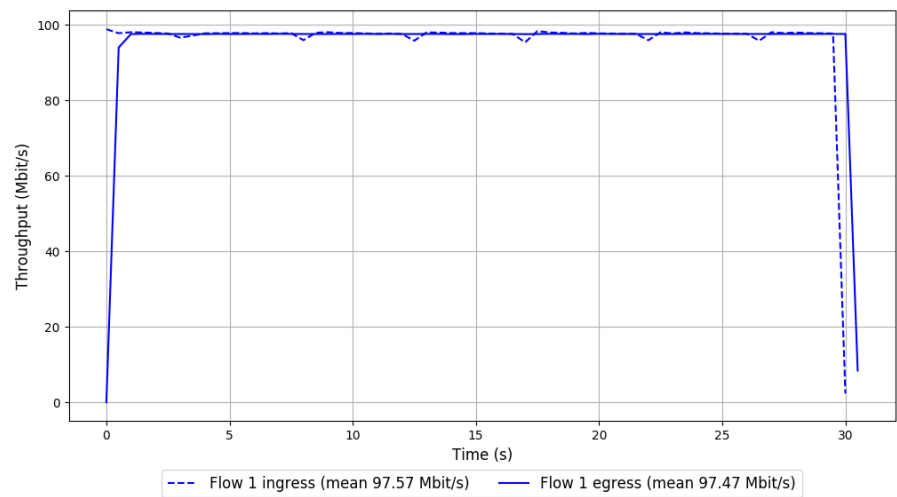
-- Flow 1:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 31.907 ms

Loss rate: 0.01%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-07-12 00:51:46

End at: 2019-07-12 00:52:16

Local clock offset: -1.737 ms

Remote clock offset: 0.309 ms

Below is generated by plot.py at 2019-07-12 00:57:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.45 Mbit/s

95th percentile per-packet one-way delay: 32.639 ms

Loss rate: 0.01%

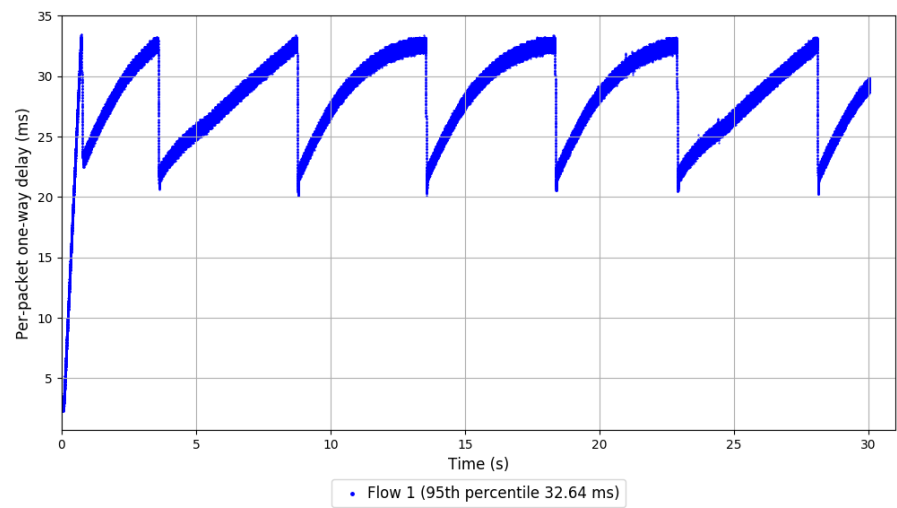
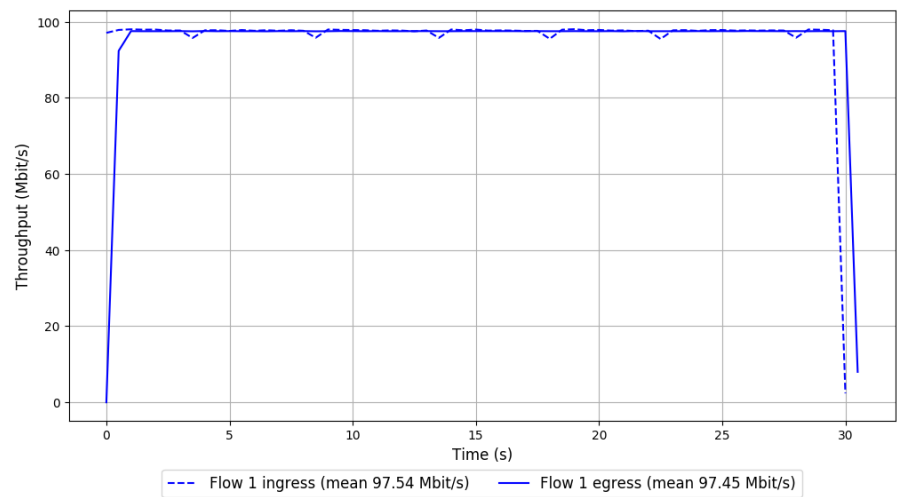
-- Flow 1:

Average throughput: 97.45 Mbit/s

95th percentile per-packet one-way delay: 32.639 ms

Loss rate: 0.01%

Run 5: Report of TCP Cubic — Data Link

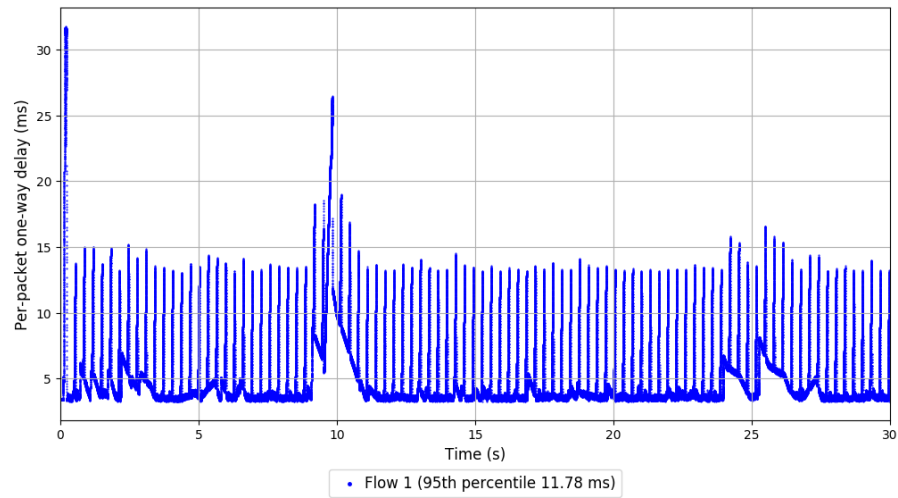
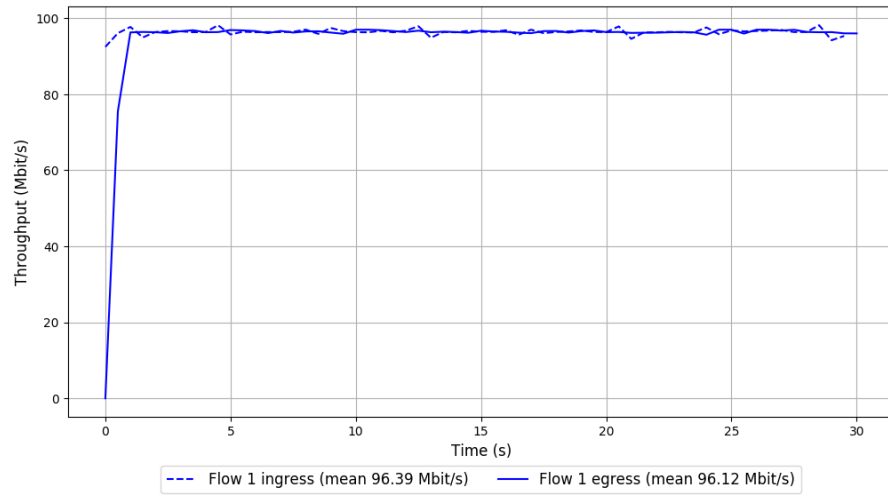


Run 1: Statistics of FillP

Start at: 2019-07-11 22:56:59
End at: 2019-07-11 22:57:29
Local clock offset: -0.341 ms
Remote clock offset: -0.192 ms

Below is generated by plot.py at 2019-07-12 00:57:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.12 Mbit/s
95th percentile per-packet one-way delay: 11.780 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 96.12 Mbit/s
95th percentile per-packet one-way delay: 11.780 ms
Loss rate: 0.28%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-07-11 23:23:41

End at: 2019-07-11 23:24:11

Local clock offset: -1.617 ms

Remote clock offset: -0.1 ms

Below is generated by plot.py at 2019-07-12 00:57:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.04 Mbit/s

95th percentile per-packet one-way delay: 8.487 ms

Loss rate: 0.32%

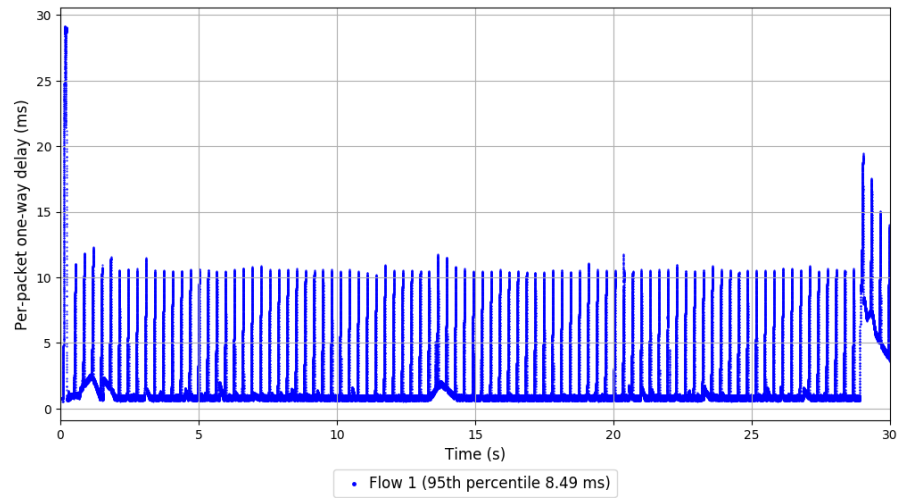
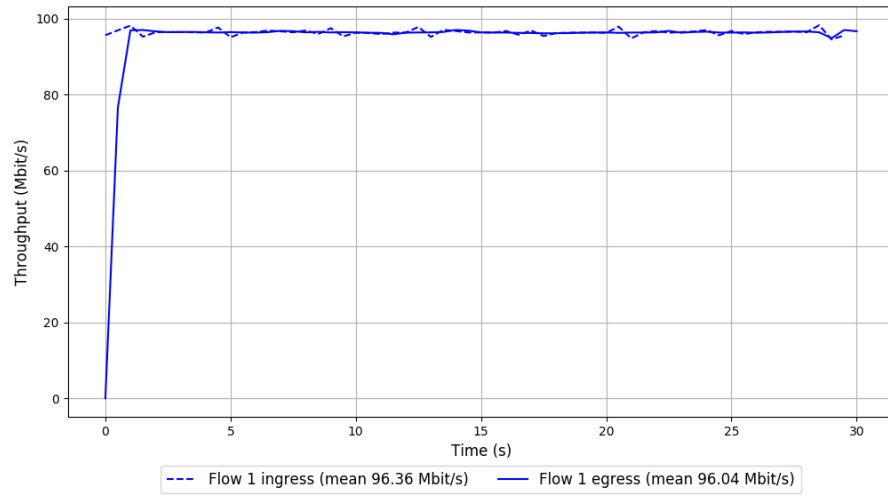
-- Flow 1:

Average throughput: 96.04 Mbit/s

95th percentile per-packet one-way delay: 8.487 ms

Loss rate: 0.32%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-07-11 23:50:26

End at: 2019-07-11 23:50:56

Local clock offset: -2.684 ms

Remote clock offset: 0.082 ms

Below is generated by plot.py at 2019-07-12 00:57:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 15.556 ms

Loss rate: 0.24%

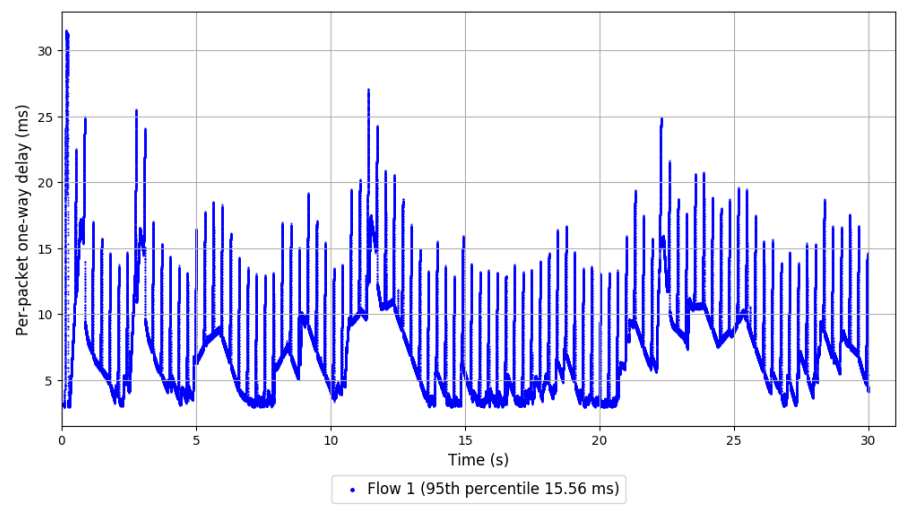
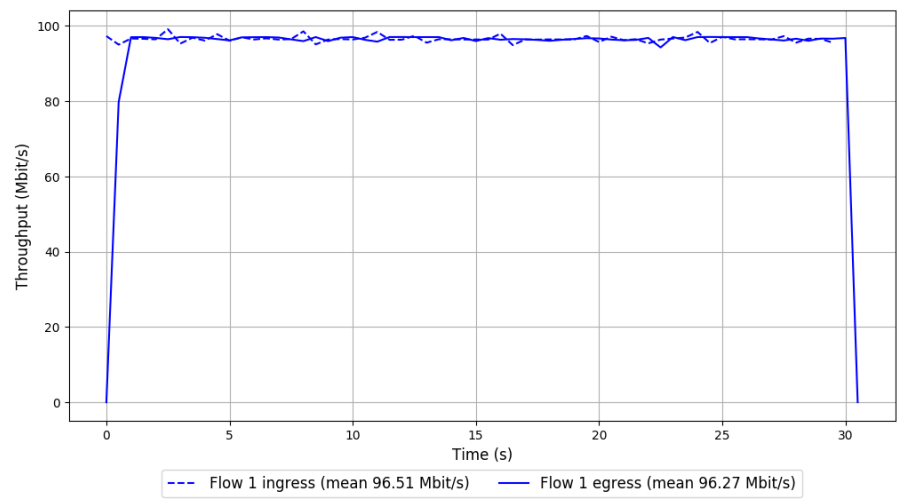
-- Flow 1:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 15.556 ms

Loss rate: 0.24%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-07-12 00:17:10

End at: 2019-07-12 00:17:40

Local clock offset: -2.778 ms

Remote clock offset: 0.253 ms

Below is generated by plot.py at 2019-07-12 00:57:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.07 Mbit/s

95th percentile per-packet one-way delay: 9.298 ms

Loss rate: 0.28%

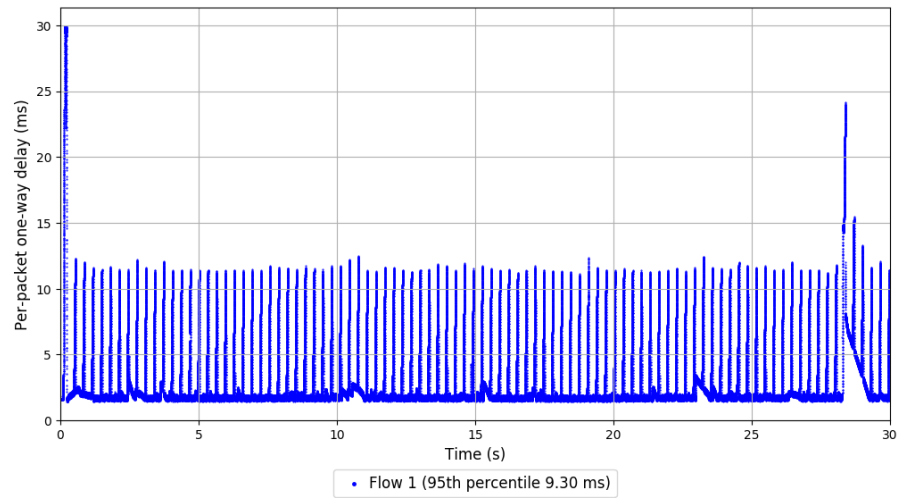
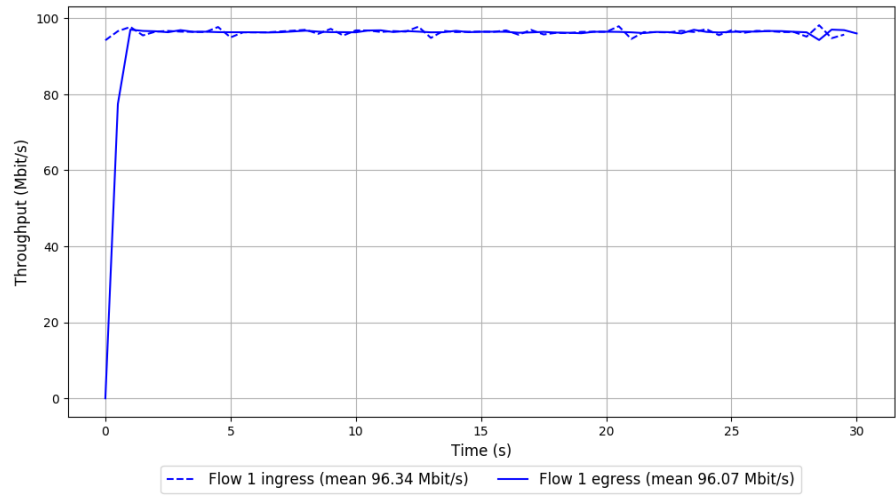
-- Flow 1:

Average throughput: 96.07 Mbit/s

95th percentile per-packet one-way delay: 9.298 ms

Loss rate: 0.28%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-07-12 00:43:53

End at: 2019-07-12 00:44:23

Local clock offset: -2.608 ms

Remote clock offset: 0.283 ms

Below is generated by plot.py at 2019-07-12 00:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.17 Mbit/s

95th percentile per-packet one-way delay: 12.530 ms

Loss rate: 0.24%

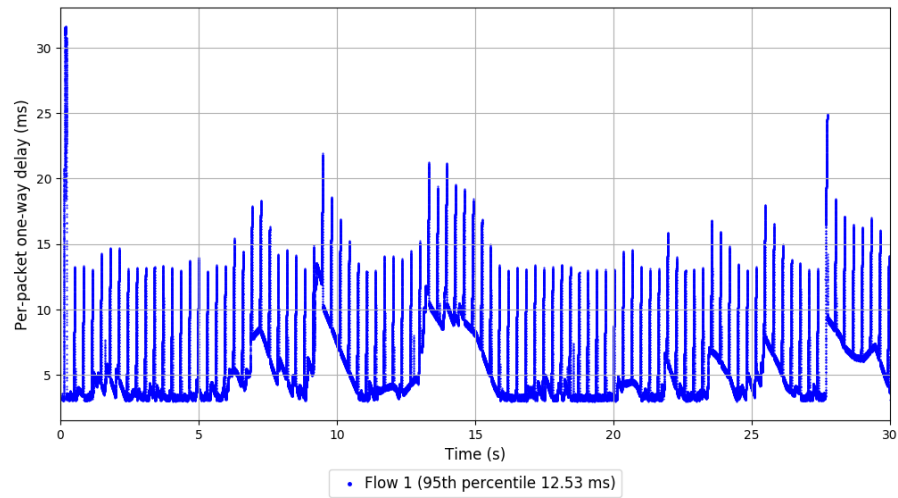
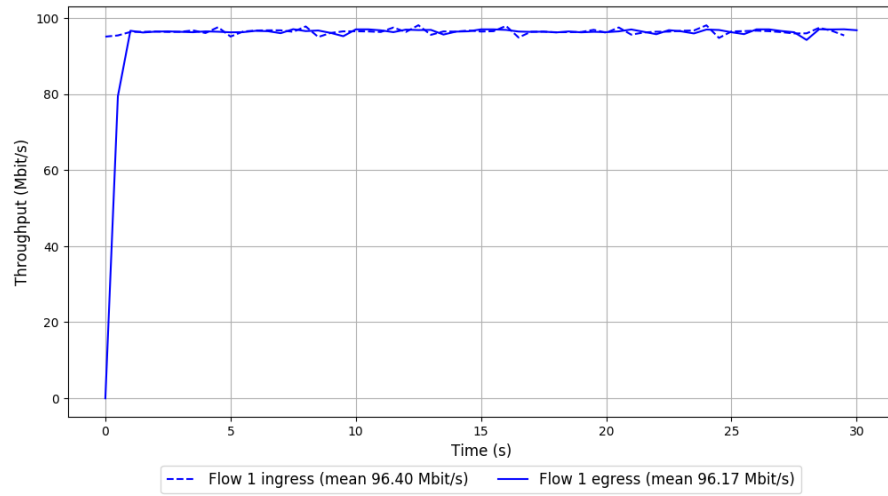
-- Flow 1:

Average throughput: 96.17 Mbit/s

95th percentile per-packet one-way delay: 12.530 ms

Loss rate: 0.24%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-07-11 22:44:47

End at: 2019-07-11 22:45:17

Local clock offset: 0.184 ms

Remote clock offset: -0.25 ms

Below is generated by plot.py at 2019-07-12 00:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.61 Mbit/s

95th percentile per-packet one-way delay: 5.241 ms

Loss rate: 0.08%

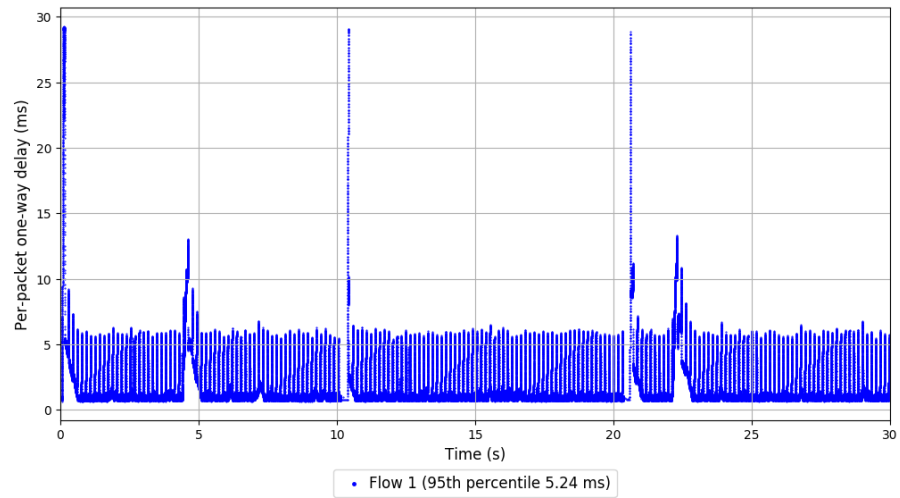
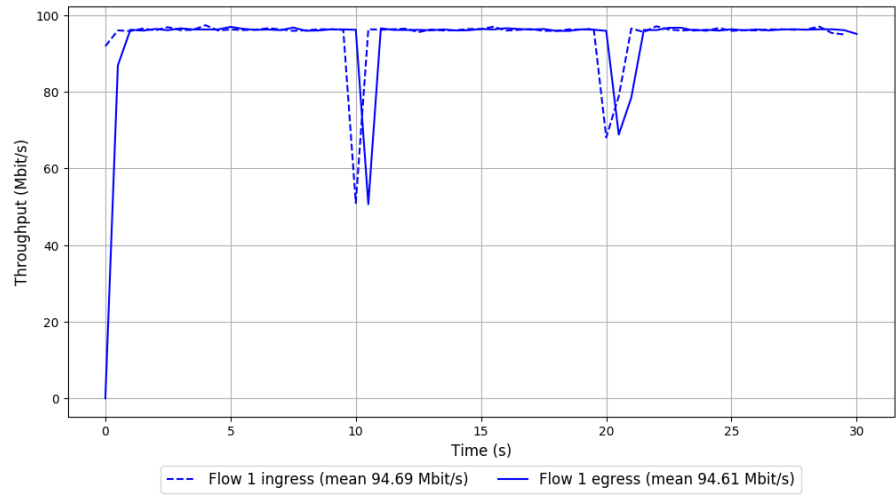
-- Flow 1:

Average throughput: 94.61 Mbit/s

95th percentile per-packet one-way delay: 5.241 ms

Loss rate: 0.08%

Run 1: Report of FillP-Sheep — Data Link

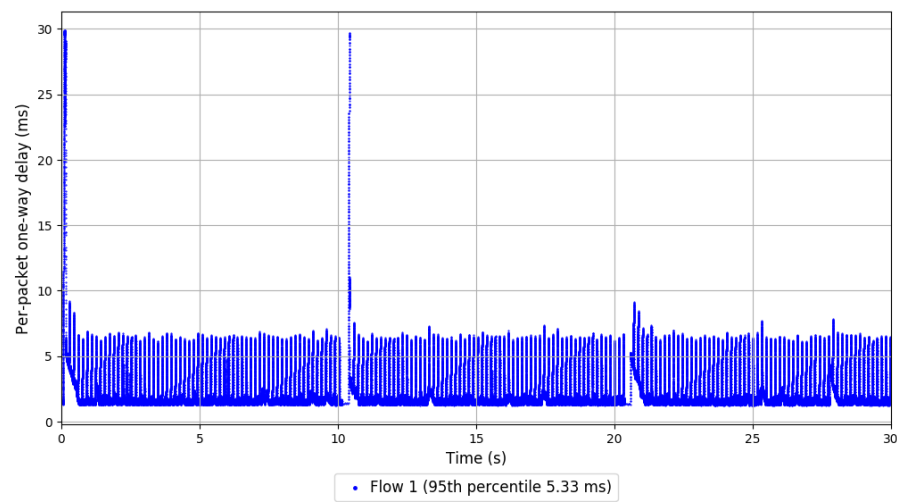
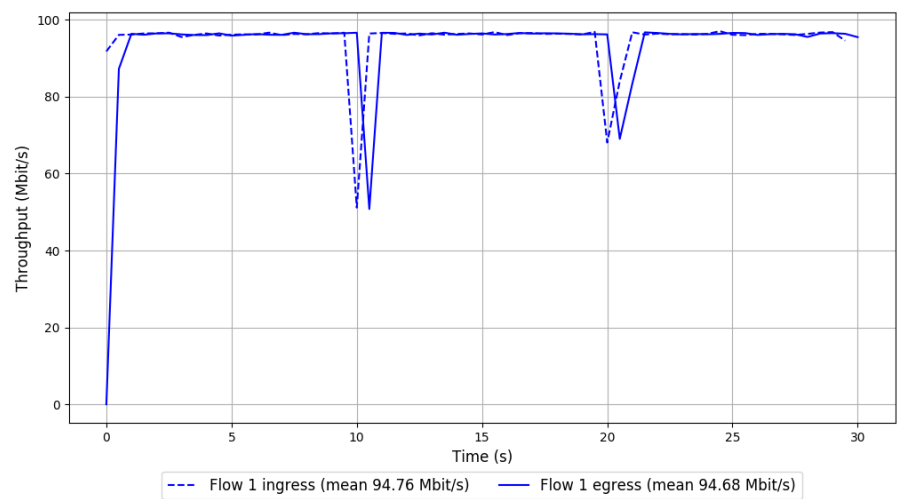


Run 2: Statistics of FillP-Sheep

Start at: 2019-07-11 23:11:29
End at: 2019-07-11 23:11:59
Local clock offset: -2.063 ms
Remote clock offset: -0.258 ms

Below is generated by plot.py at 2019-07-12 00:58:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.68 Mbit/s
95th percentile per-packet one-way delay: 5.333 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 94.68 Mbit/s
95th percentile per-packet one-way delay: 5.333 ms
Loss rate: 0.08%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-07-11 23:38:11

End at: 2019-07-11 23:38:41

Local clock offset: -2.088 ms

Remote clock offset: 0.002 ms

Below is generated by plot.py at 2019-07-12 00:58:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.61 Mbit/s

95th percentile per-packet one-way delay: 5.506 ms

Loss rate: 0.10%

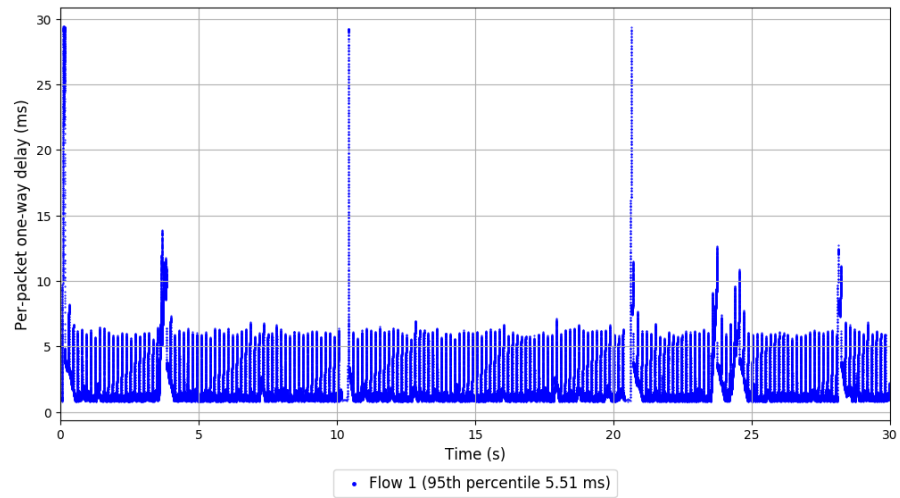
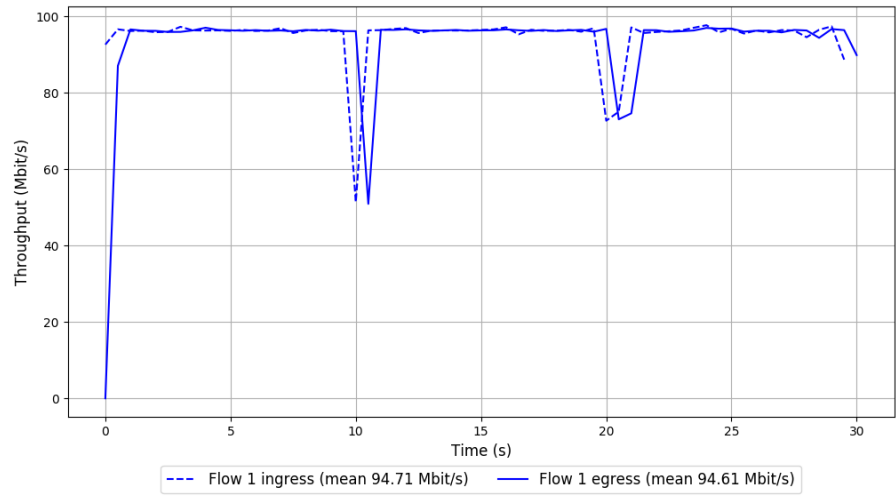
-- Flow 1:

Average throughput: 94.61 Mbit/s

95th percentile per-packet one-way delay: 5.506 ms

Loss rate: 0.10%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-07-12 00:04:56

End at: 2019-07-12 00:05:26

Local clock offset: -2.01 ms

Remote clock offset: 0.185 ms

Below is generated by plot.py at 2019-07-12 00:58:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.23 Mbit/s

95th percentile per-packet one-way delay: 14.123 ms

Loss rate: 0.14%

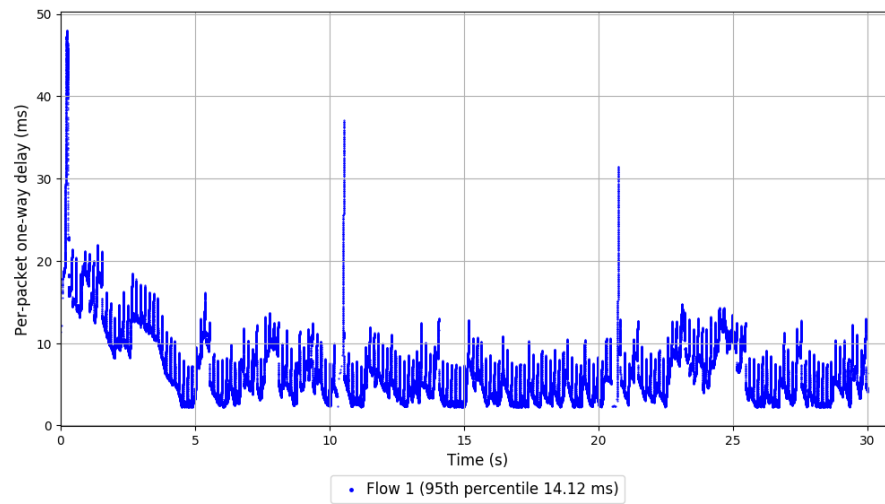
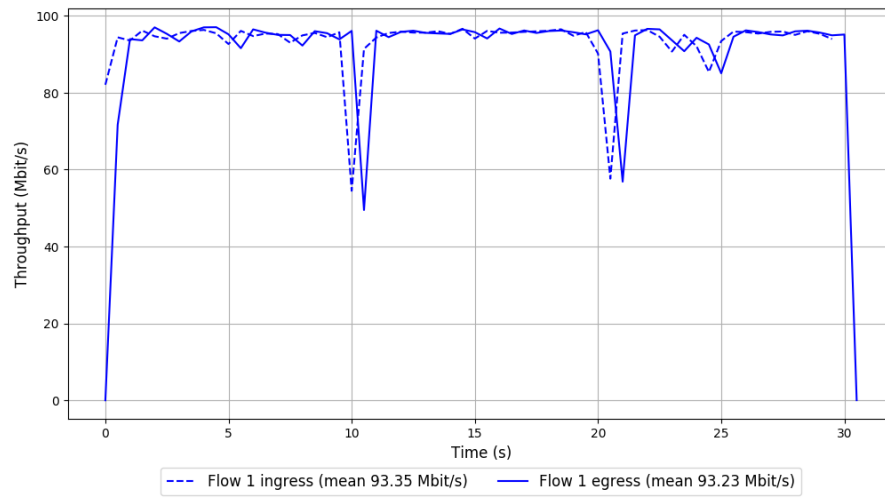
-- Flow 1:

Average throughput: 93.23 Mbit/s

95th percentile per-packet one-way delay: 14.123 ms

Loss rate: 0.14%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-07-12 00:31:41

End at: 2019-07-12 00:32:11

Local clock offset: -2.143 ms

Remote clock offset: 0.325 ms

Below is generated by plot.py at 2019-07-12 00:58:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.52 Mbit/s

95th percentile per-packet one-way delay: 8.235 ms

Loss rate: 0.08%

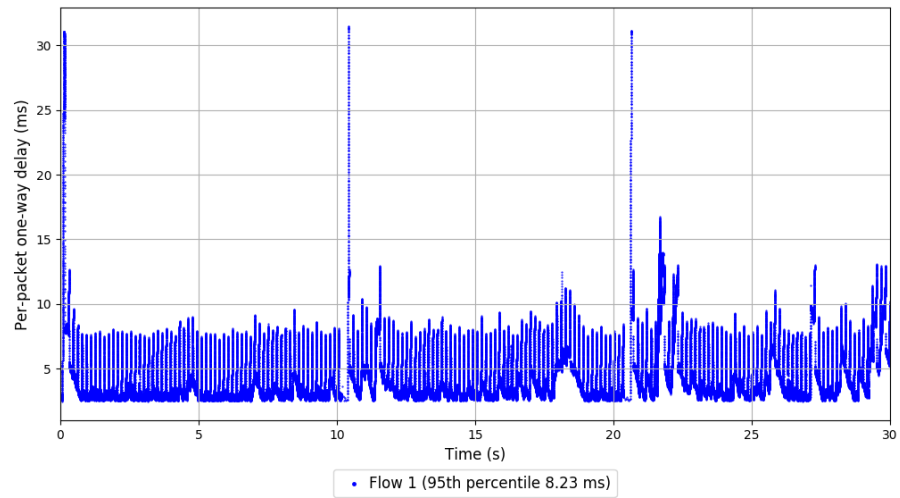
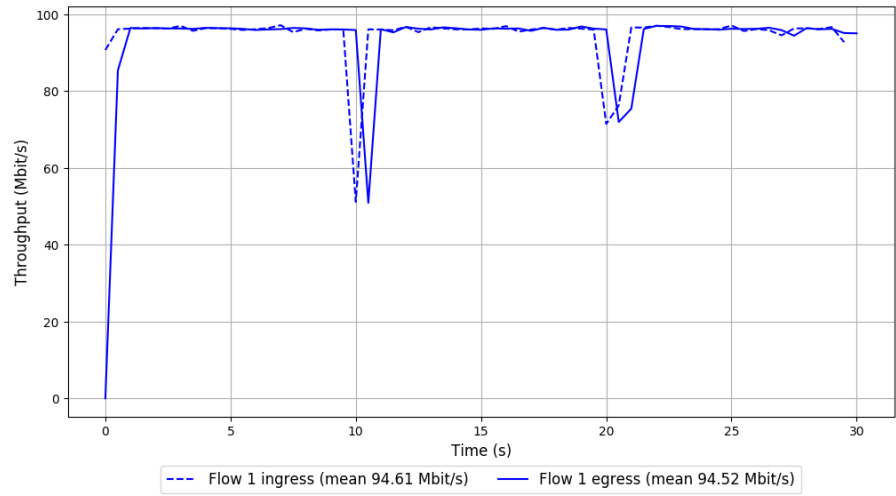
-- Flow 1:

Average throughput: 94.52 Mbit/s

95th percentile per-packet one-way delay: 8.235 ms

Loss rate: 0.08%

Run 5: Report of FillP-Sheep — Data Link

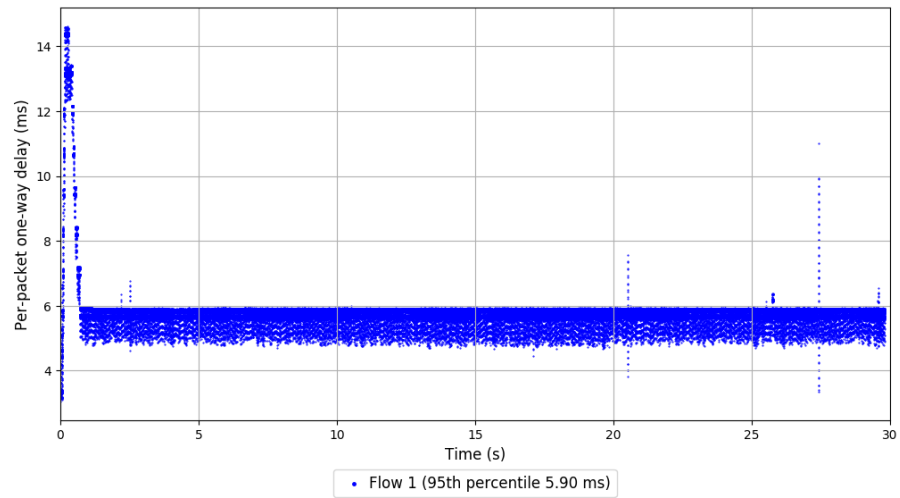
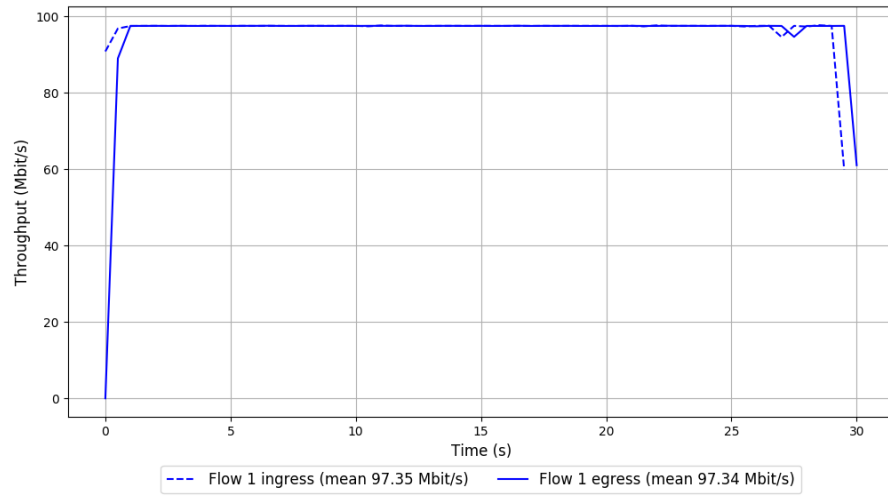


Run 1: Statistics of Indigo

Start at: 2019-07-11 22:41:25
End at: 2019-07-11 22:41:55
Local clock offset: -0.646 ms
Remote clock offset: -0.272 ms

Below is generated by plot.py at 2019-07-12 00:58:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.34 Mbit/s
95th percentile per-packet one-way delay: 5.902 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.34 Mbit/s
95th percentile per-packet one-way delay: 5.902 ms
Loss rate: 0.00%

Run 1: Report of Indigo — Data Link

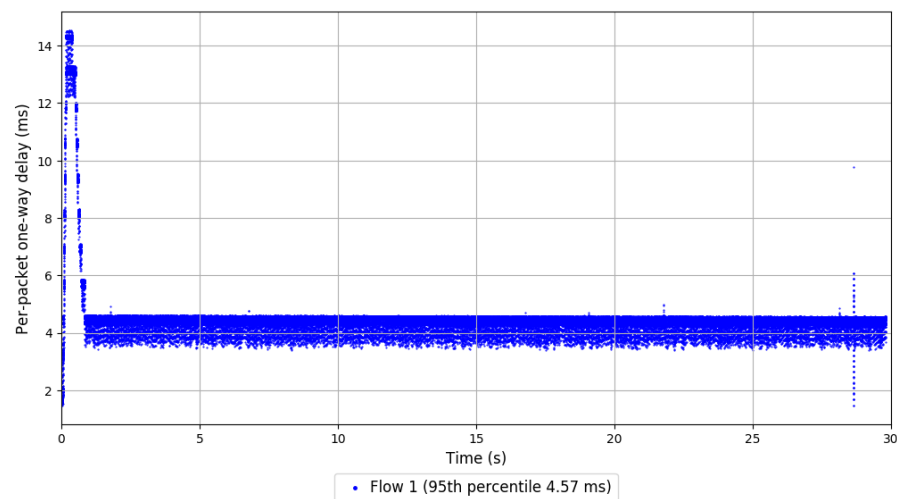
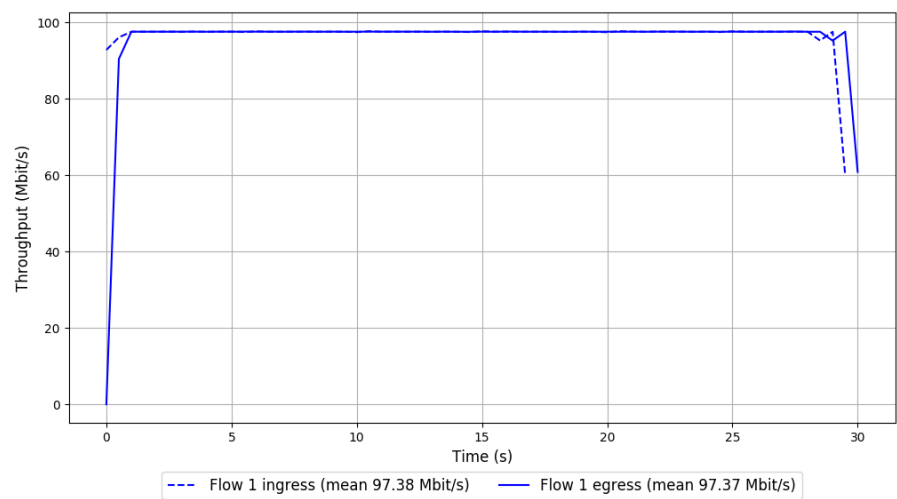


Run 2: Statistics of Indigo

Start at: 2019-07-11 23:08:07
End at: 2019-07-11 23:08:37
Local clock offset: -1.777 ms
Remote clock offset: -0.161 ms

Below is generated by plot.py at 2019-07-12 00:58:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.37 Mbit/s
95th percentile per-packet one-way delay: 4.570 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.37 Mbit/s
95th percentile per-packet one-way delay: 4.570 ms
Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-07-11 23:34:49

End at: 2019-07-11 23:35:19

Local clock offset: -2.615 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2019-07-12 00:58:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.38 Mbit/s

95th percentile per-packet one-way delay: 5.446 ms

Loss rate: 0.00%

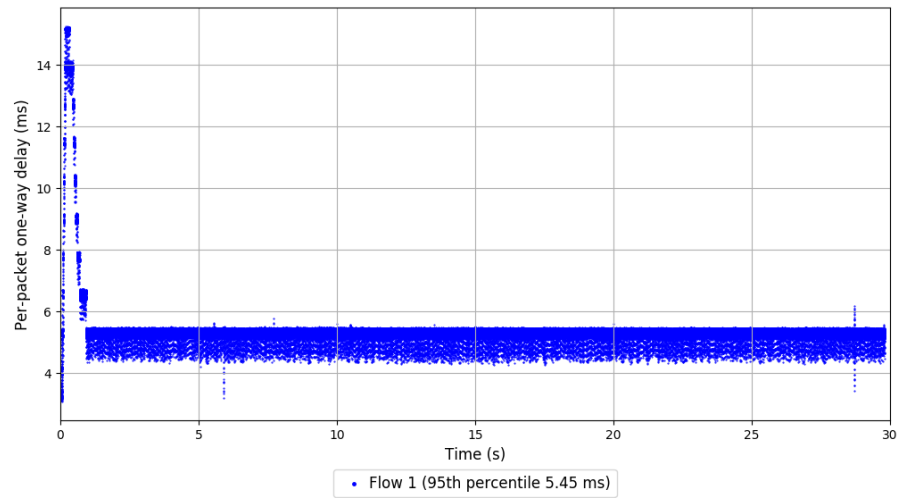
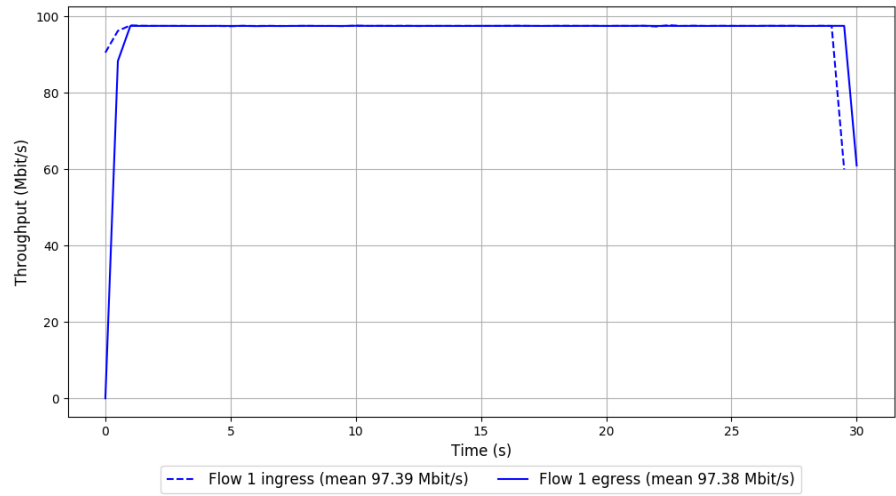
-- Flow 1:

Average throughput: 97.38 Mbit/s

95th percentile per-packet one-way delay: 5.446 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-07-12 00:01:34

End at: 2019-07-12 00:02:04

Local clock offset: -2.696 ms

Remote clock offset: 0.074 ms

Below is generated by plot.py at 2019-07-12 00:58:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.40 Mbit/s

95th percentile per-packet one-way delay: 4.519 ms

Loss rate: 0.00%

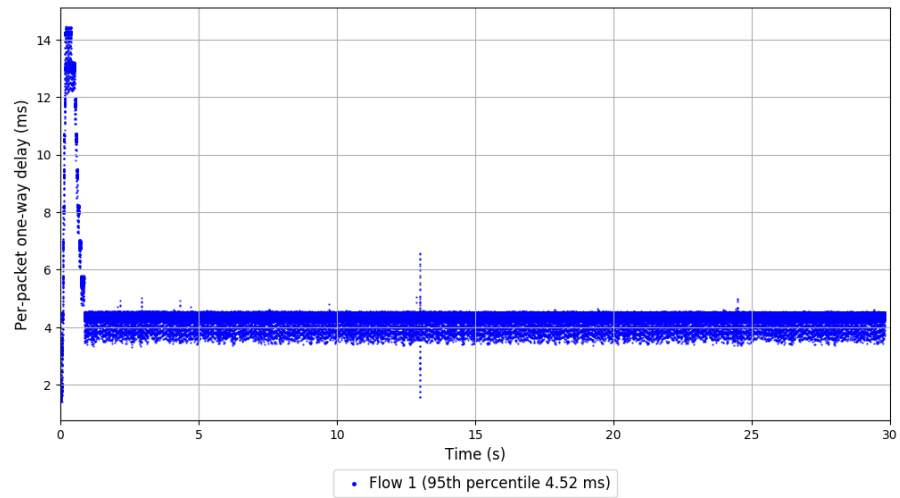
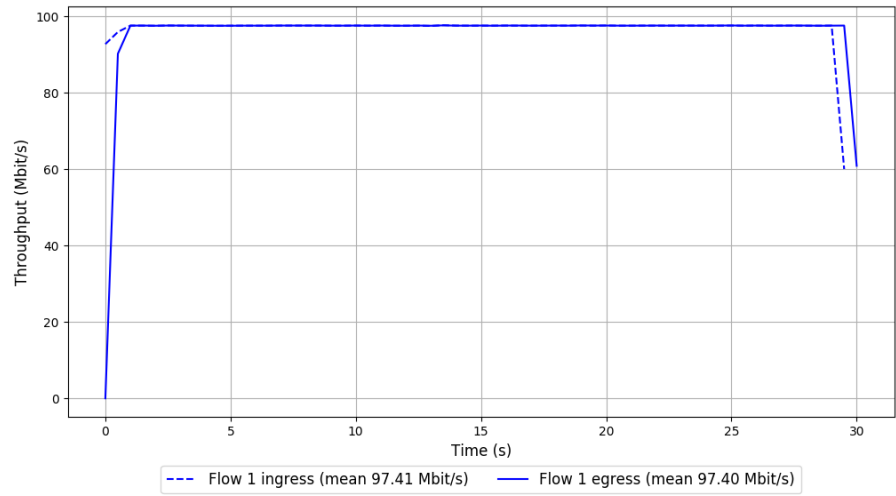
-- Flow 1:

Average throughput: 97.40 Mbit/s

95th percentile per-packet one-way delay: 4.519 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-07-12 00:28:20

End at: 2019-07-12 00:28:50

Local clock offset: -2.035 ms

Remote clock offset: 0.259 ms

Below is generated by plot.py at 2019-07-12 00:59:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.18 Mbit/s

95th percentile per-packet one-way delay: 5.471 ms

Loss rate: 0.00%

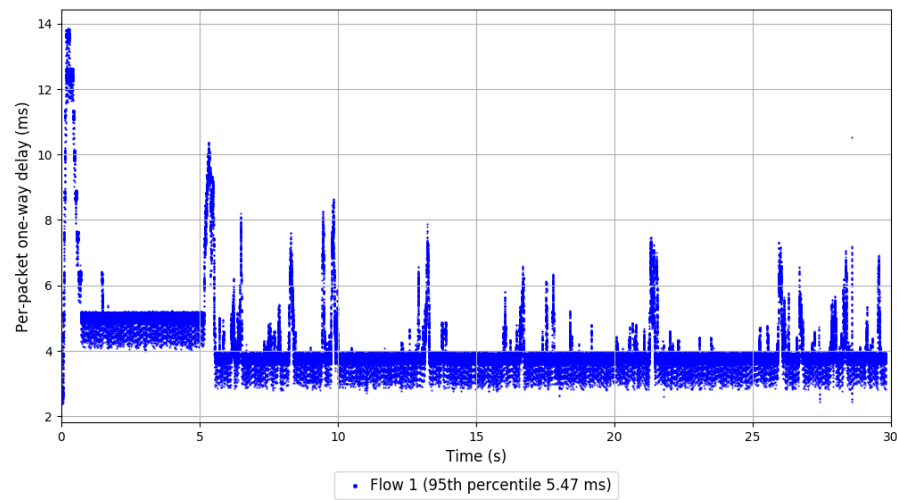
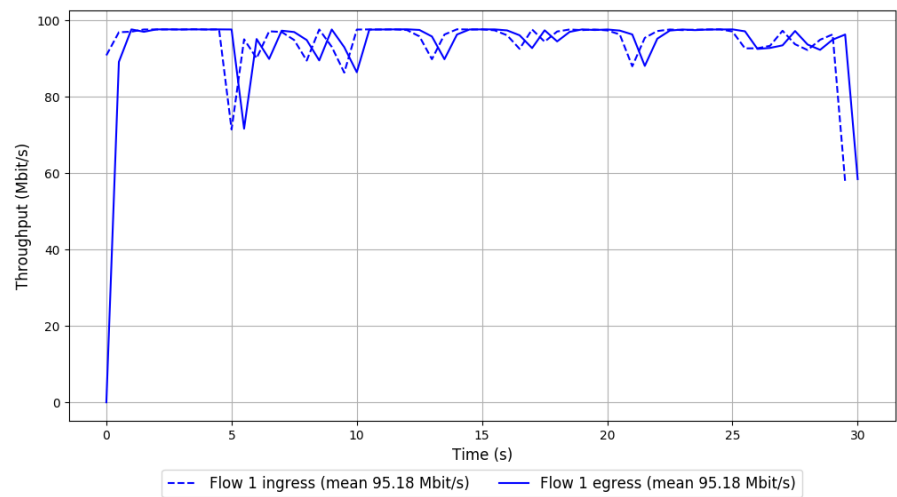
-- Flow 1:

Average throughput: 95.18 Mbit/s

95th percentile per-packet one-way delay: 5.471 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link

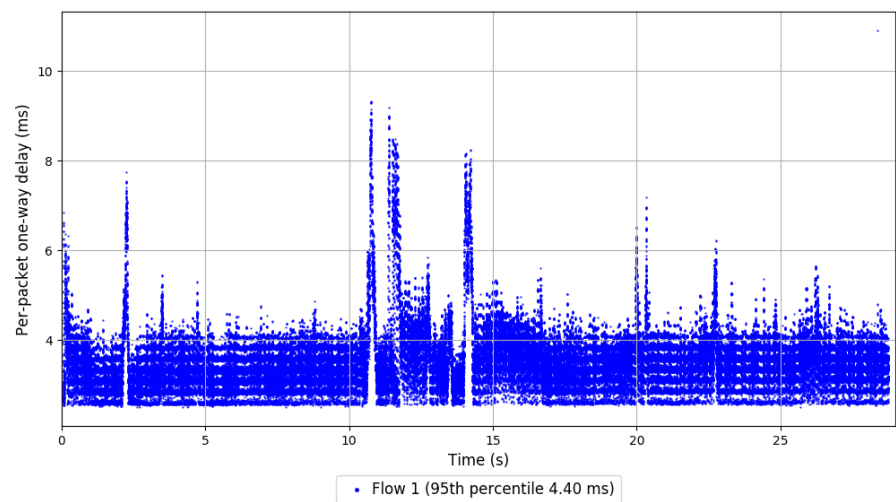
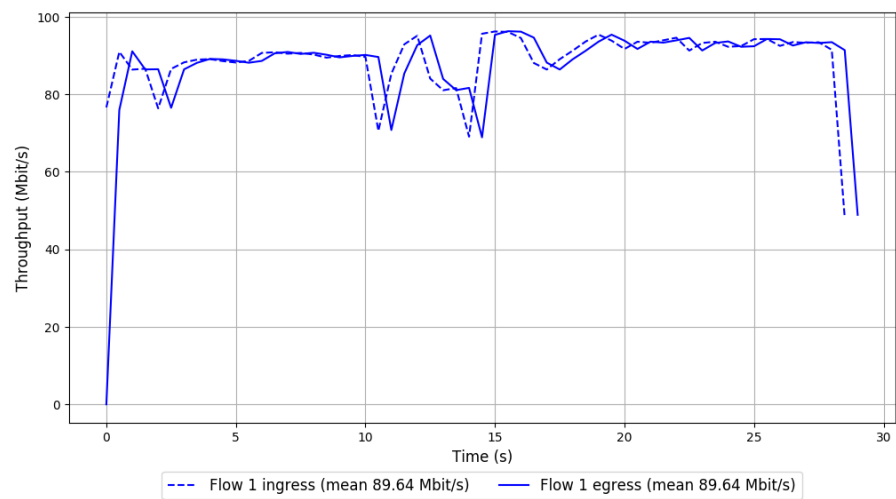


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-07-11 22:45:55
End at: 2019-07-11 22:46:25
Local clock offset: 0.006 ms
Remote clock offset: -0.301 ms

Below is generated by plot.py at 2019-07-12 00:59:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.64 Mbit/s
95th percentile per-packet one-way delay: 4.400 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.64 Mbit/s
95th percentile per-packet one-way delay: 4.400 ms
Loss rate: 0.00%

Run 1: Report of Indigo-MusesC3 — Data Link

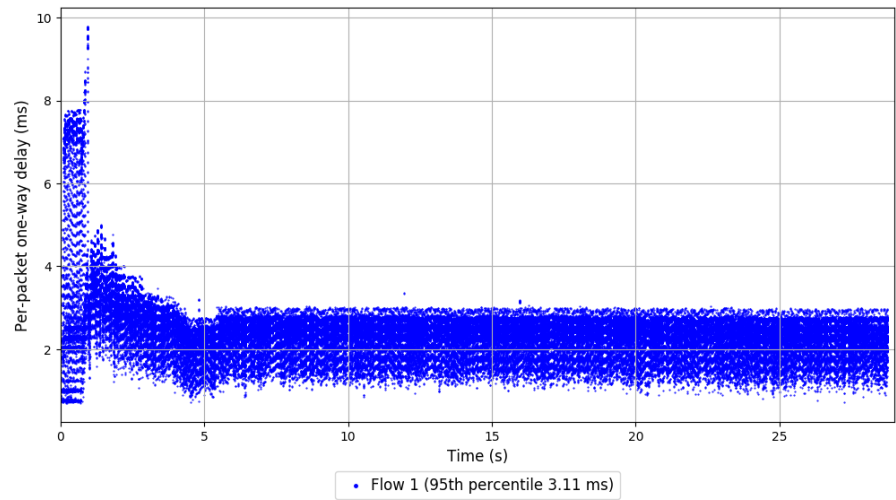
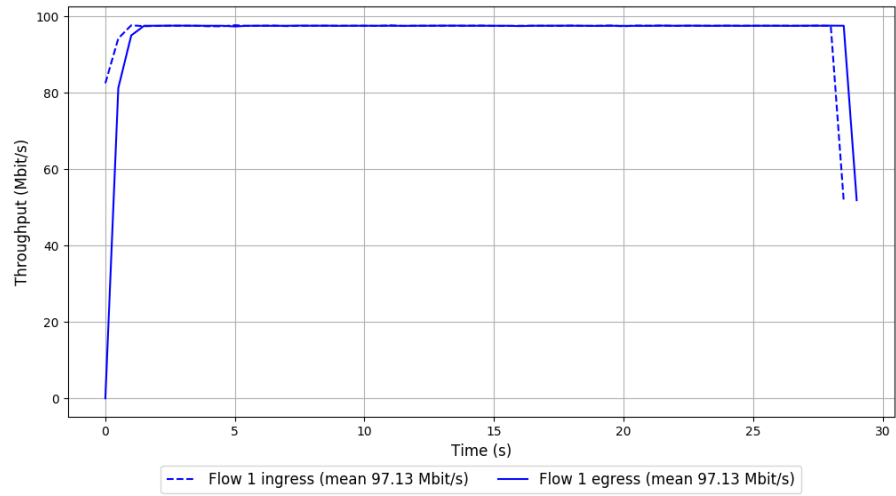


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-07-11 23:12:36
End at: 2019-07-11 23:13:06
Local clock offset: -1.326 ms
Remote clock offset: -0.168 ms

Below is generated by plot.py at 2019-07-12 00:59:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 3.112 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 3.112 ms
Loss rate: 0.00%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-07-11 23:39:18

End at: 2019-07-11 23:39:48

Local clock offset: -2.894 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2019-07-12 00:59:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.46 Mbit/s

95th percentile per-packet one-way delay: 18.252 ms

Loss rate: 0.00%

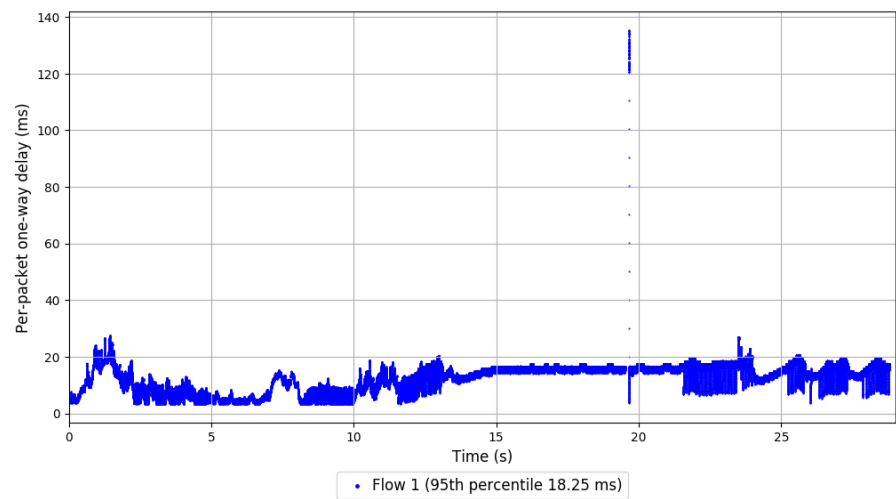
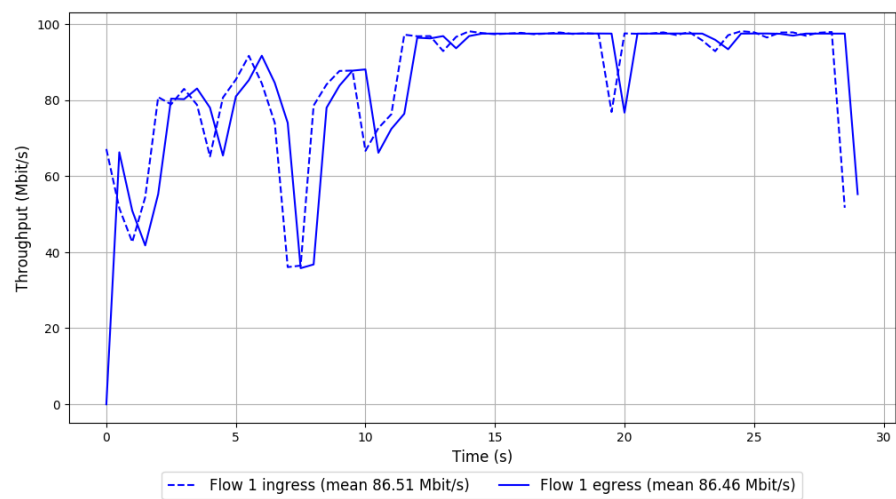
-- Flow 1:

Average throughput: 86.46 Mbit/s

95th percentile per-packet one-way delay: 18.252 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-07-12 00:06:03

End at: 2019-07-12 00:06:33

Local clock offset: -2.269 ms

Remote clock offset: 0.151 ms

Below is generated by plot.py at 2019-07-12 00:59:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.97 Mbit/s

95th percentile per-packet one-way delay: 3.442 ms

Loss rate: 0.00%

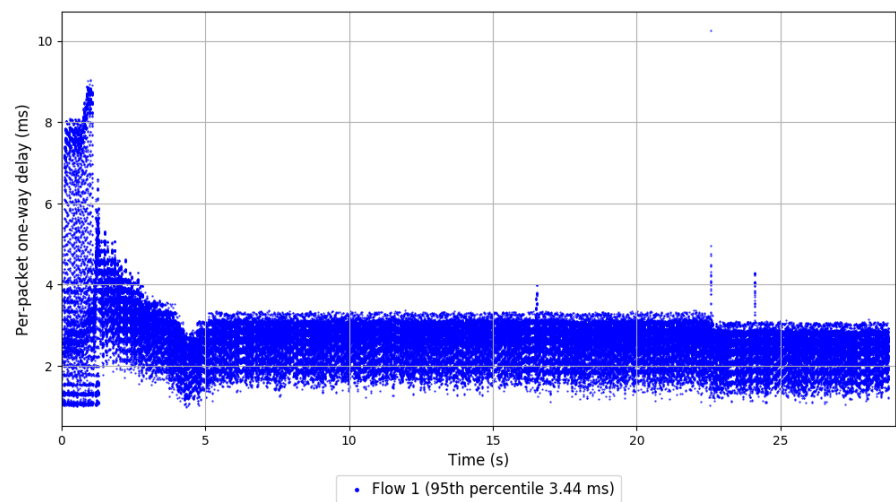
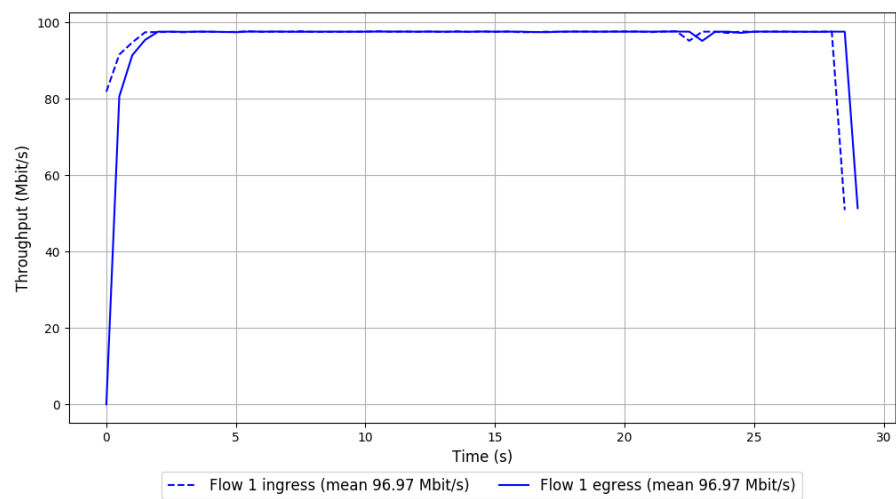
-- Flow 1:

Average throughput: 96.97 Mbit/s

95th percentile per-packet one-way delay: 3.442 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-07-12 00:32:49

End at: 2019-07-12 00:33:19

Local clock offset: -1.899 ms

Remote clock offset: 0.3 ms

Below is generated by plot.py at 2019-07-12 00:59:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.05 Mbit/s

95th percentile per-packet one-way delay: 2.907 ms

Loss rate: 0.00%

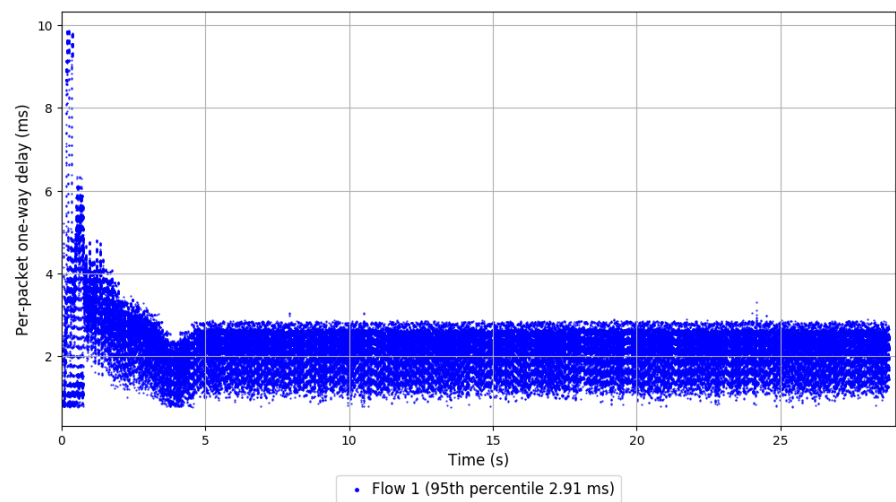
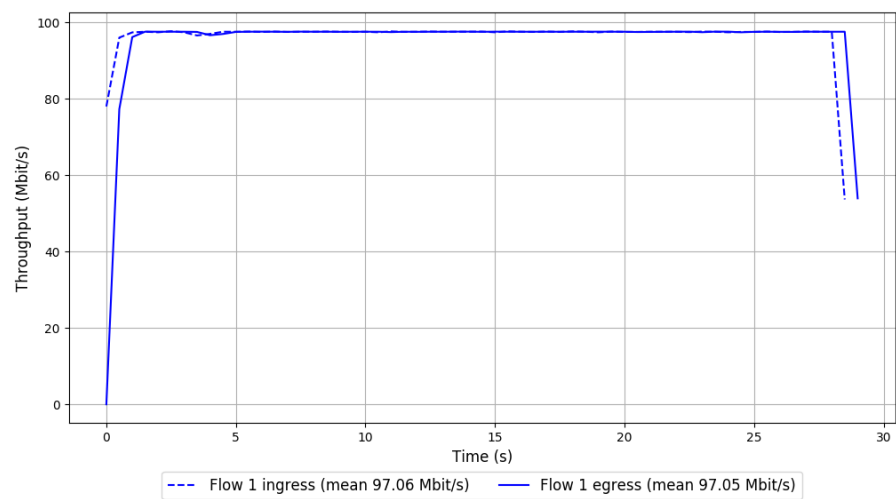
-- Flow 1:

Average throughput: 97.05 Mbit/s

95th percentile per-packet one-way delay: 2.907 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesC3 — Data Link

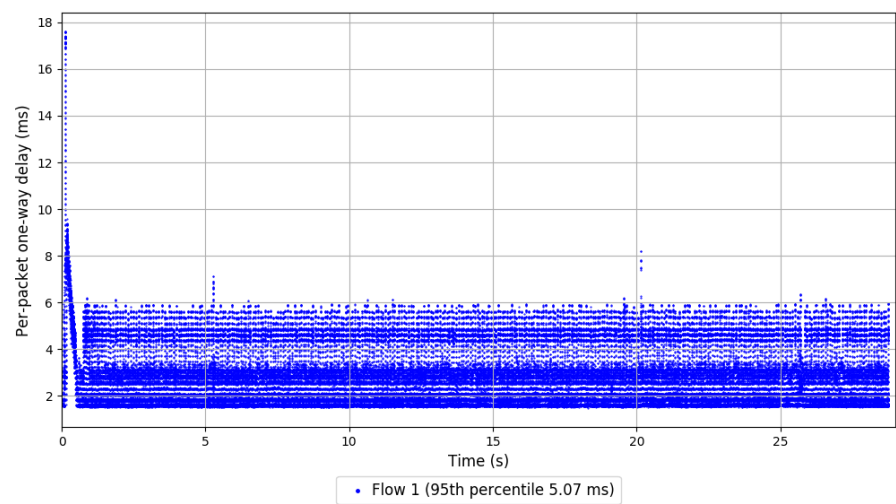
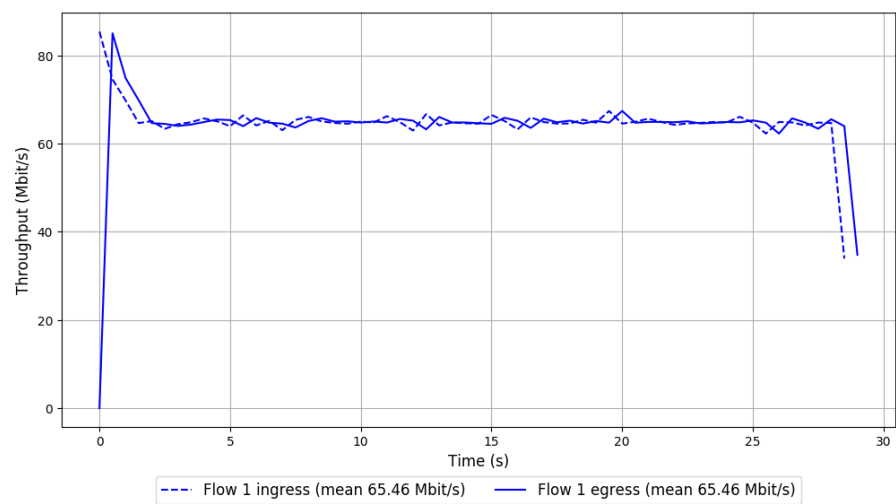


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-07-11 22:47:03
End at: 2019-07-11 22:47:33
Local clock offset: -0.528 ms
Remote clock offset: -0.328 ms

Below is generated by plot.py at 2019-07-12 00:59:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 65.46 Mbit/s
95th percentile per-packet one-way delay: 5.065 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 65.46 Mbit/s
95th percentile per-packet one-way delay: 5.065 ms
Loss rate: 0.00%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-07-11 23:13:44

End at: 2019-07-11 23:14:14

Local clock offset: -2.164 ms

Remote clock offset: -0.131 ms

Below is generated by plot.py at 2019-07-12 00:59:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.64 Mbit/s

95th percentile per-packet one-way delay: 4.492 ms

Loss rate: 0.00%

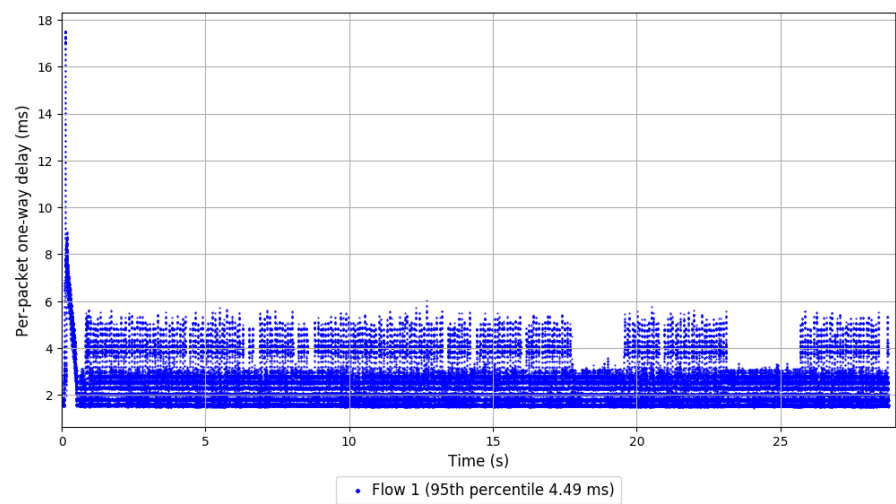
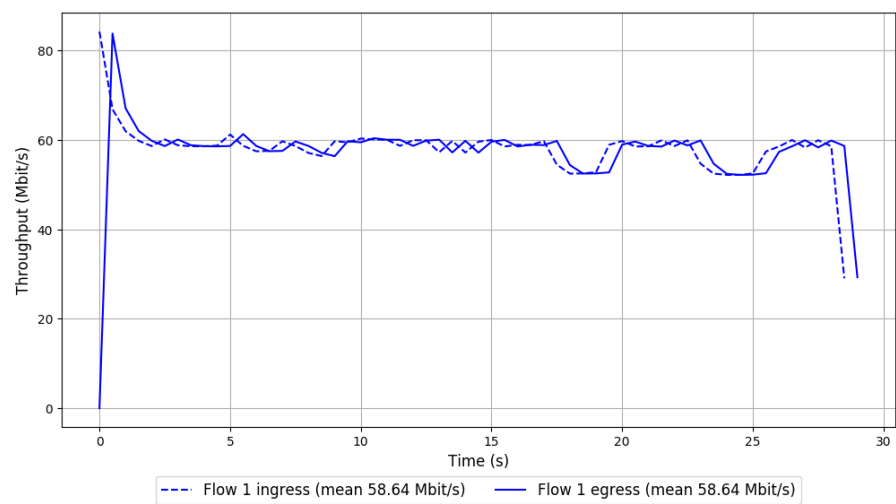
-- Flow 1:

Average throughput: 58.64 Mbit/s

95th percentile per-packet one-way delay: 4.492 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-07-11 23:40:26

End at: 2019-07-11 23:40:56

Local clock offset: -1.894 ms

Remote clock offset: 0.026 ms

Below is generated by plot.py at 2019-07-12 01:00:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.22 Mbit/s

95th percentile per-packet one-way delay: 2.321 ms

Loss rate: 0.00%

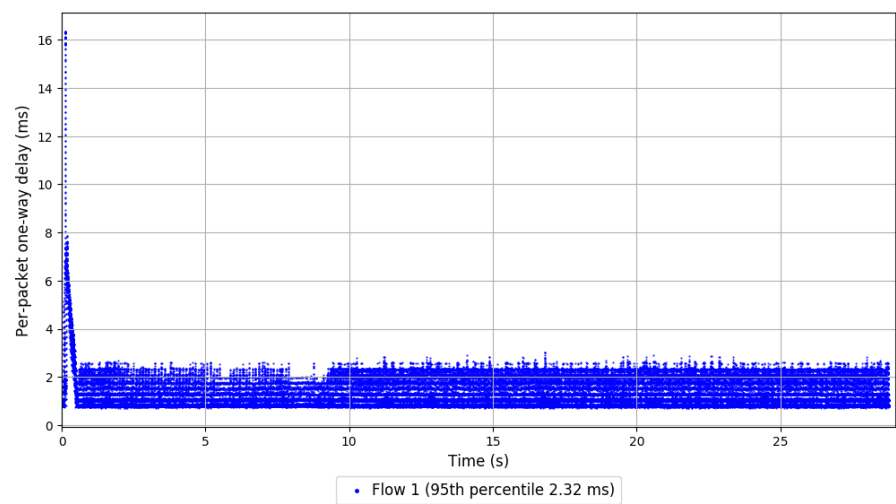
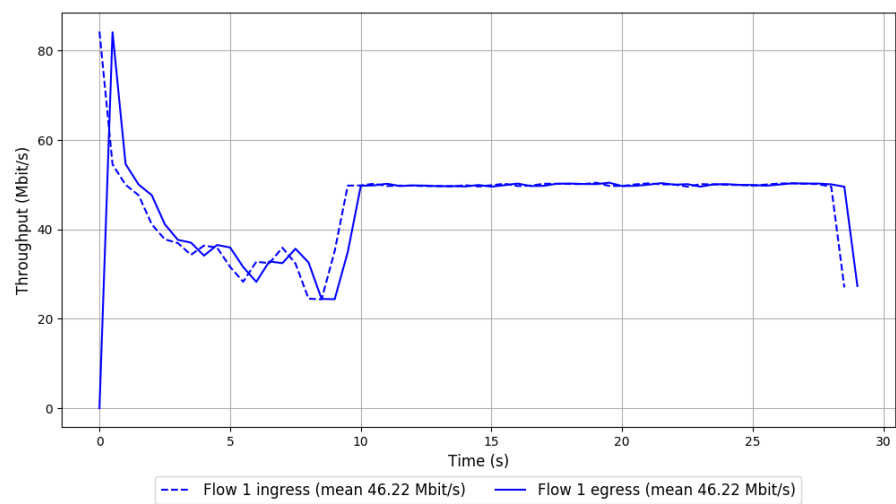
-- Flow 1:

Average throughput: 46.22 Mbit/s

95th percentile per-packet one-way delay: 2.321 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-07-12 00:07:11

End at: 2019-07-12 00:07:41

Local clock offset: -1.964 ms

Remote clock offset: 0.201 ms

Below is generated by plot.py at 2019-07-12 01:00:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.51 Mbit/s

95th percentile per-packet one-way delay: 2.949 ms

Loss rate: 0.00%

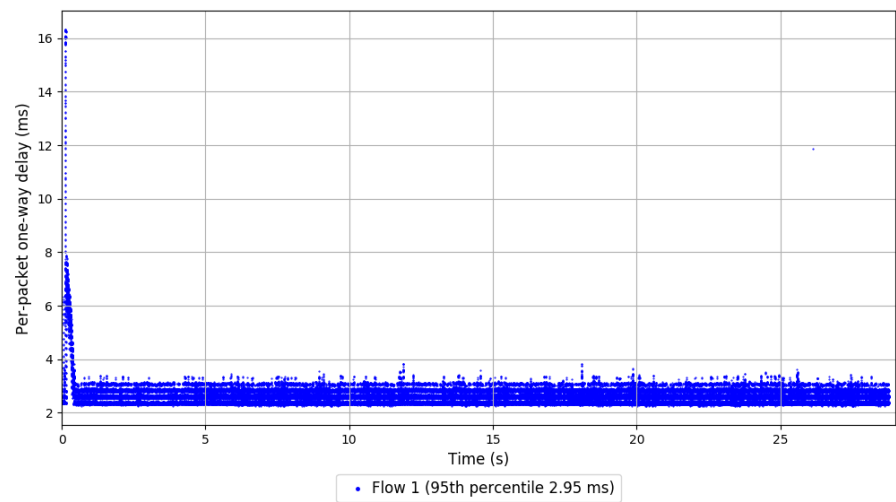
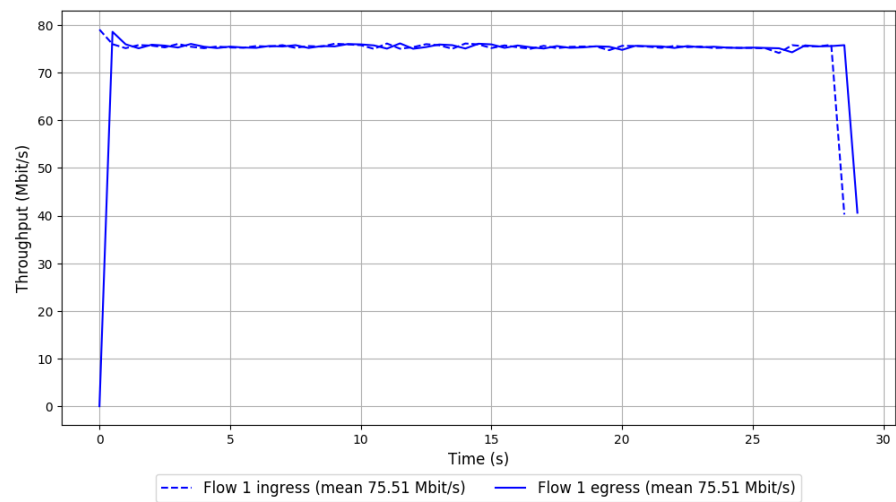
-- Flow 1:

Average throughput: 75.51 Mbit/s

95th percentile per-packet one-way delay: 2.949 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-07-12 00:33:57

End at: 2019-07-12 00:34:27

Local clock offset: -2.68 ms

Remote clock offset: 0.3 ms

Below is generated by plot.py at 2019-07-12 01:00:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.10 Mbit/s

95th percentile per-packet one-way delay: 5.289 ms

Loss rate: 0.01%

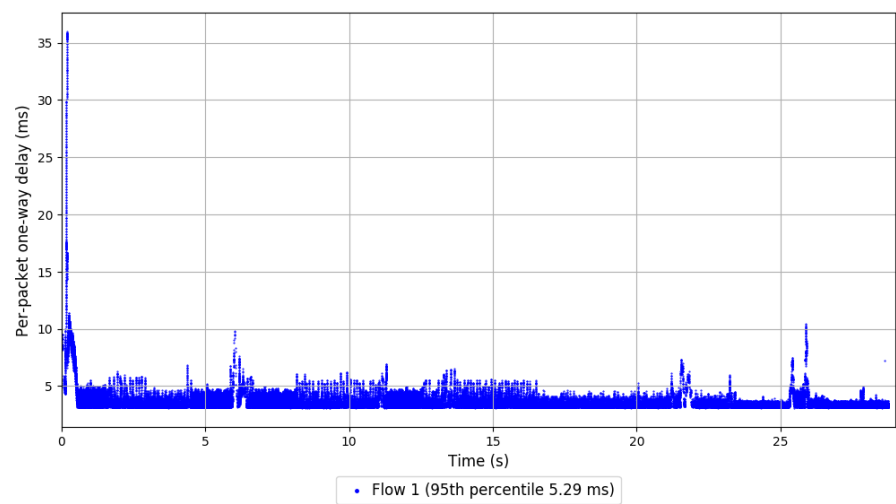
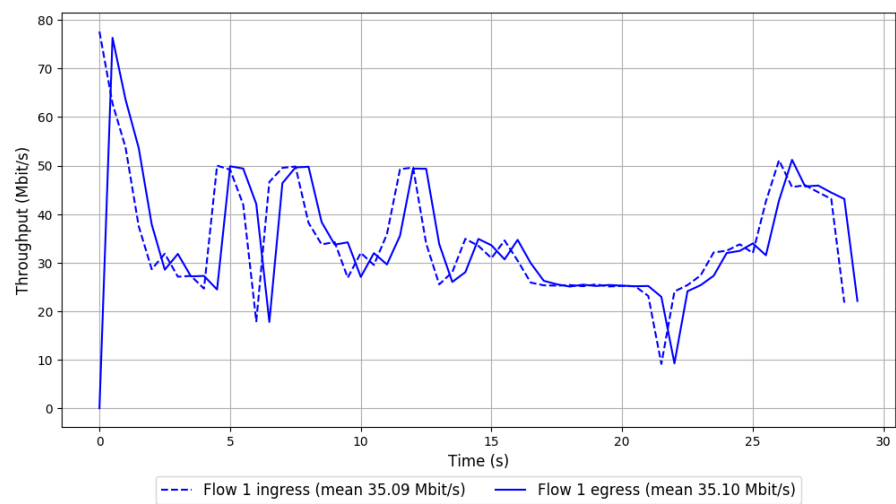
-- Flow 1:

Average throughput: 35.10 Mbit/s

95th percentile per-packet one-way delay: 5.289 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-07-11 22:49:14

End at: 2019-07-11 22:49:44

Local clock offset: 0.329 ms

Remote clock offset: -0.274 ms

Below is generated by plot.py at 2019-07-12 01:00:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.91 Mbit/s

95th percentile per-packet one-way delay: 4.075 ms

Loss rate: 0.00%

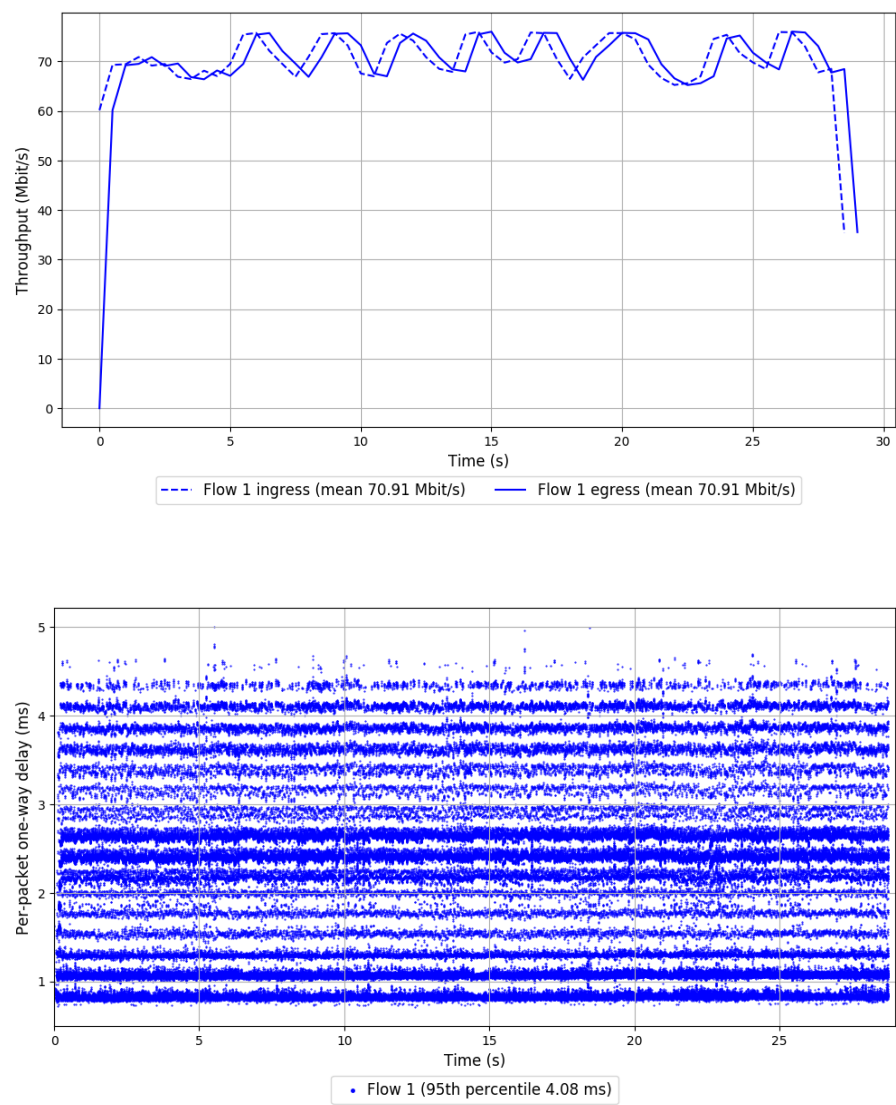
-- Flow 1:

Average throughput: 70.91 Mbit/s

95th percentile per-packet one-way delay: 4.075 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-07-11 23:15:57

End at: 2019-07-11 23:16:27

Local clock offset: -1.676 ms

Remote clock offset: -0.062 ms

Below is generated by plot.py at 2019-07-12 01:00:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.28 Mbit/s

95th percentile per-packet one-way delay: 5.568 ms

Loss rate: 0.00%

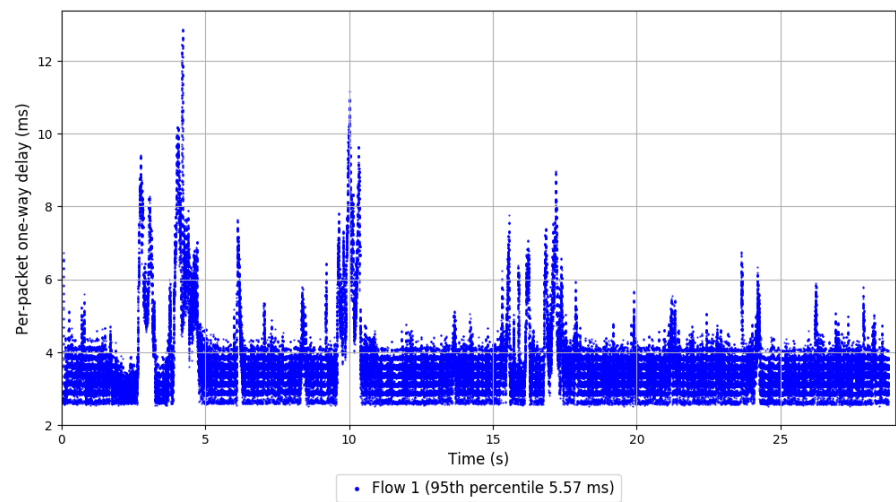
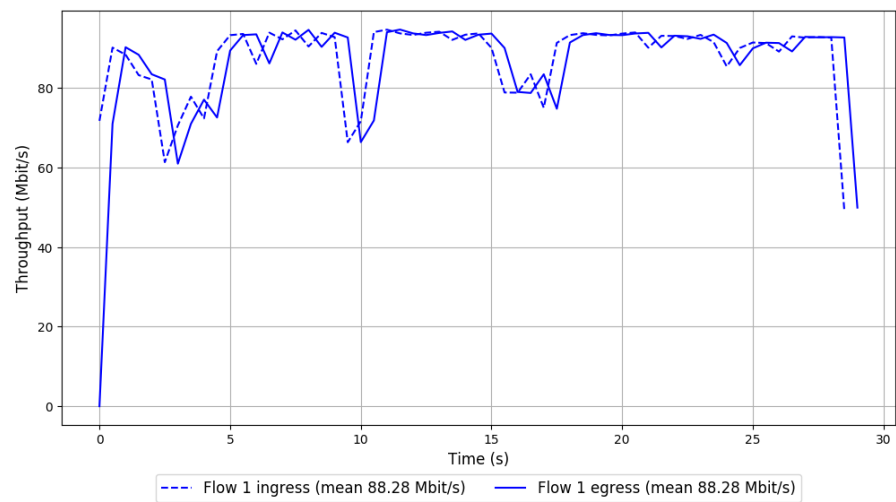
-- Flow 1:

Average throughput: 88.28 Mbit/s

95th percentile per-packet one-way delay: 5.568 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-07-11 23:42:40

End at: 2019-07-11 23:43:10

Local clock offset: -2.92 ms

Remote clock offset: 0.075 ms

Below is generated by plot.py at 2019-07-12 01:00:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.64 Mbit/s

95th percentile per-packet one-way delay: 5.382 ms

Loss rate: 0.00%

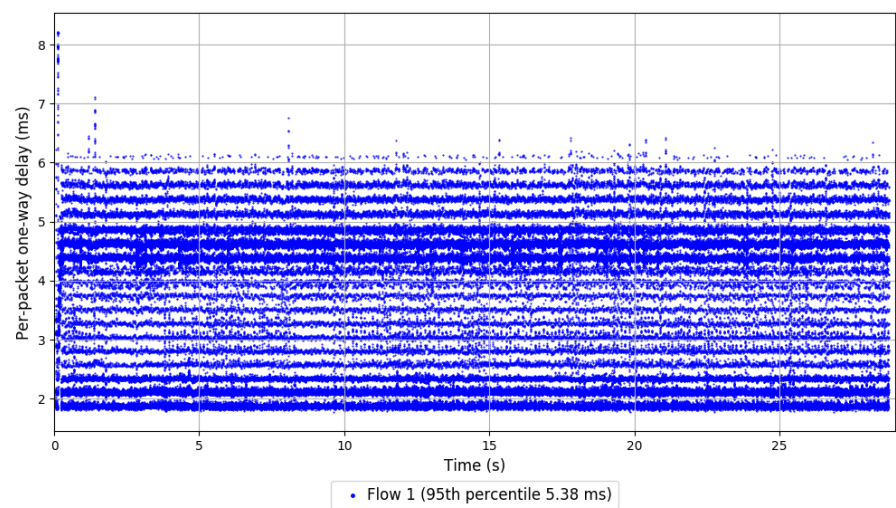
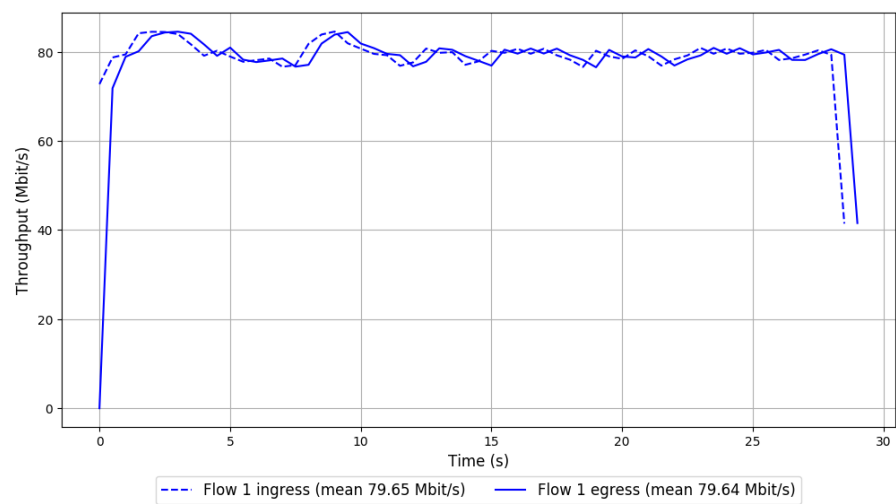
-- Flow 1:

Average throughput: 79.64 Mbit/s

95th percentile per-packet one-way delay: 5.382 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-07-12 00:09:25

End at: 2019-07-12 00:09:55

Local clock offset: -1.989 ms

Remote clock offset: 0.246 ms

Below is generated by plot.py at 2019-07-12 01:00:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.88 Mbit/s

95th percentile per-packet one-way delay: 5.867 ms

Loss rate: 0.00%

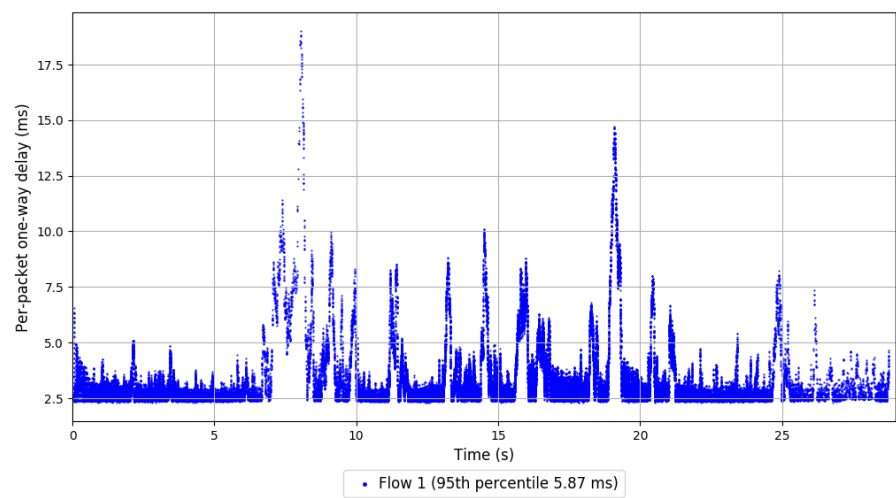
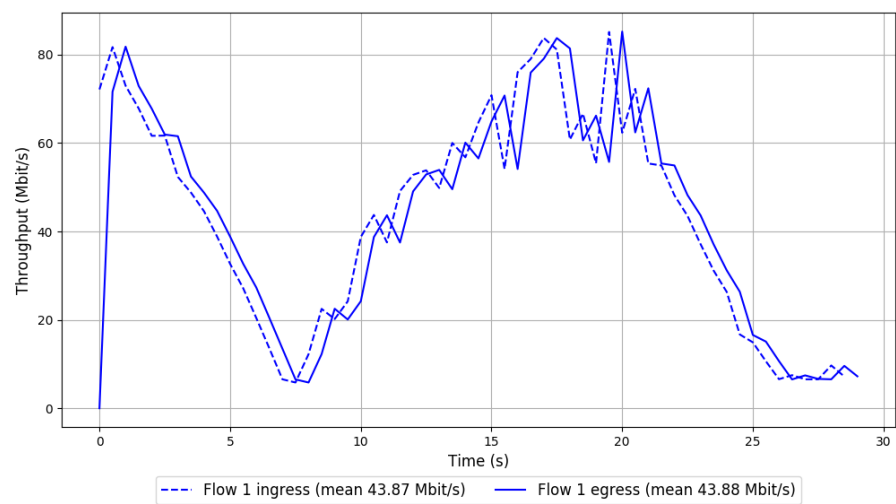
-- Flow 1:

Average throughput: 43.88 Mbit/s

95th percentile per-packet one-way delay: 5.867 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-07-12 00:36:09

End at: 2019-07-12 00:36:39

Local clock offset: -2.107 ms

Remote clock offset: 0.178 ms

Below is generated by plot.py at 2019-07-12 01:00:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.48 Mbit/s

95th percentile per-packet one-way delay: 3.753 ms

Loss rate: 0.00%

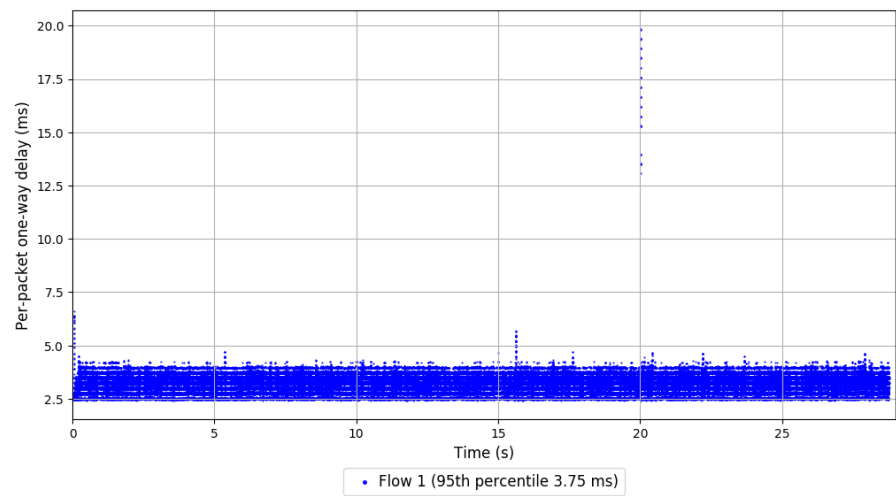
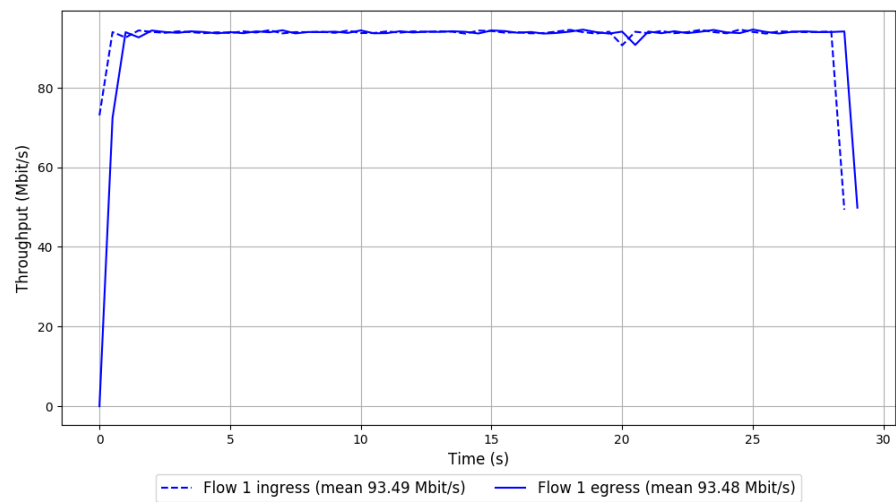
-- Flow 1:

Average throughput: 93.48 Mbit/s

95th percentile per-packet one-way delay: 3.753 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-07-11 23:01:24

End at: 2019-07-11 23:01:55

Local clock offset: -0.104 ms

Remote clock offset: -0.206 ms

Below is generated by plot.py at 2019-07-12 01:01:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.03 Mbit/s

95th percentile per-packet one-way delay: 2.107 ms

Loss rate: 0.00%

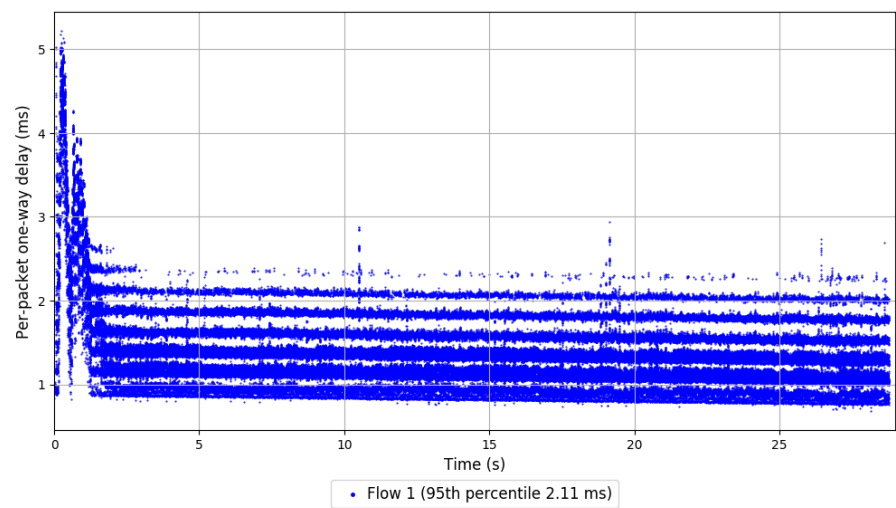
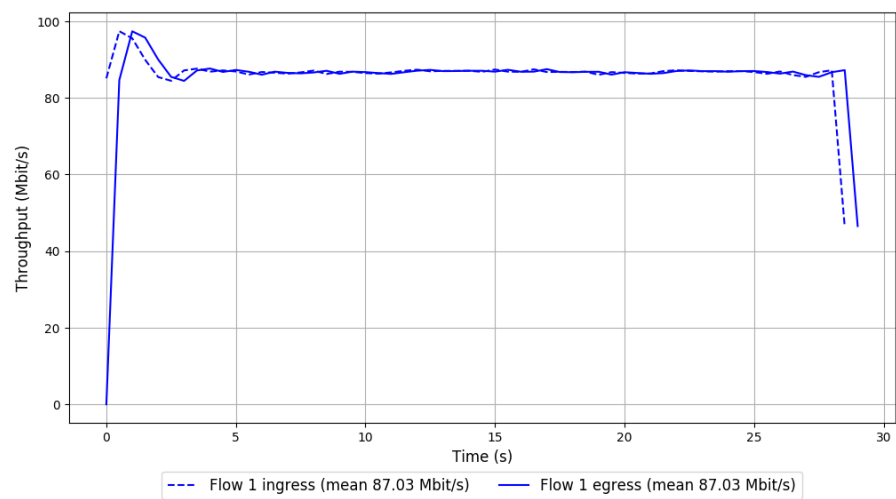
-- Flow 1:

Average throughput: 87.03 Mbit/s

95th percentile per-packet one-way delay: 2.107 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-07-11 23:28:06

End at: 2019-07-11 23:28:36

Local clock offset: -1.624 ms

Remote clock offset: -0.072 ms

Below is generated by plot.py at 2019-07-12 01:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.13 Mbit/s

95th percentile per-packet one-way delay: 2.327 ms

Loss rate: 0.00%

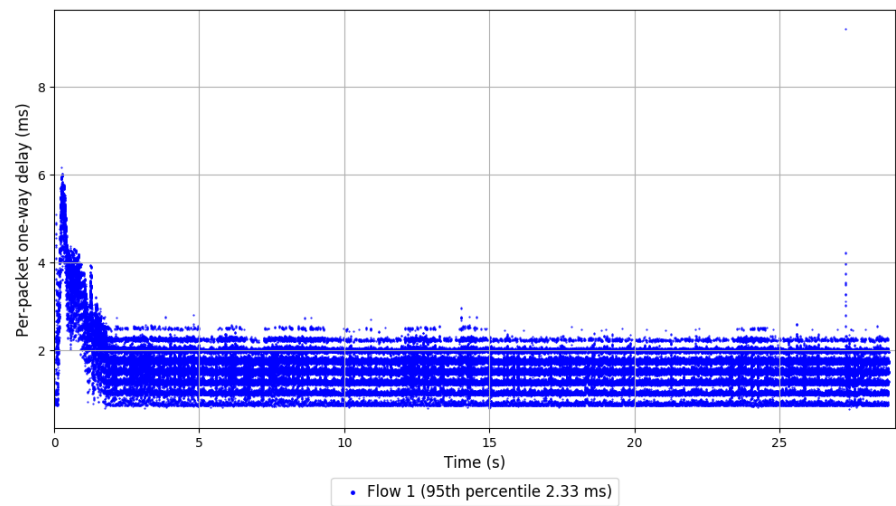
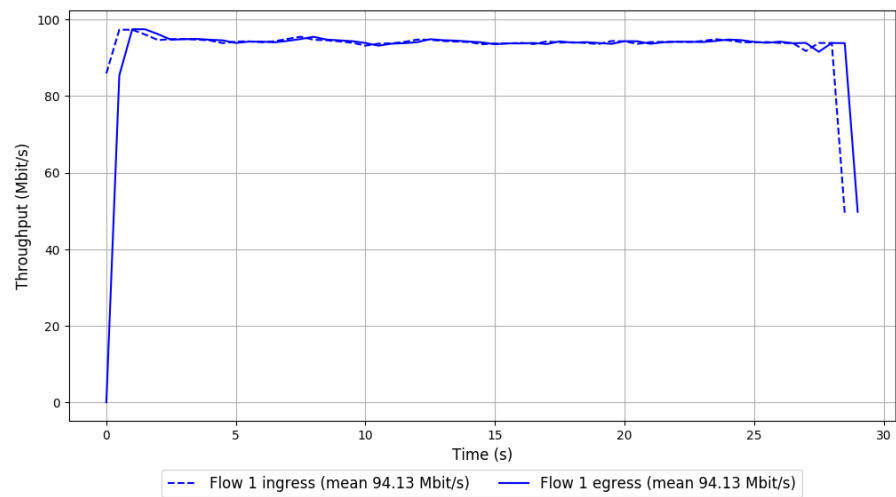
-- Flow 1:

Average throughput: 94.13 Mbit/s

95th percentile per-packet one-way delay: 2.327 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-07-11 23:54:52

End at: 2019-07-11 23:55:22

Local clock offset: -1.843 ms

Remote clock offset: 0.153 ms

Below is generated by plot.py at 2019-07-12 01:01:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.24 Mbit/s

95th percentile per-packet one-way delay: 2.279 ms

Loss rate: 0.00%

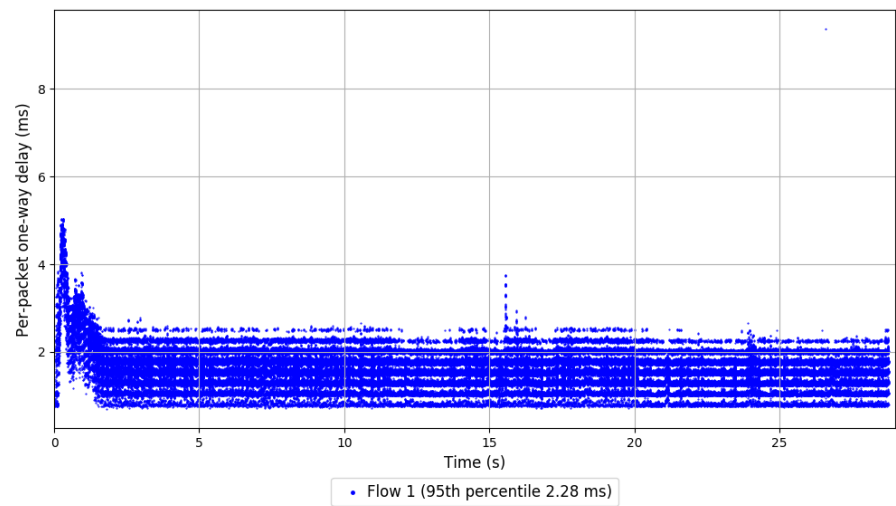
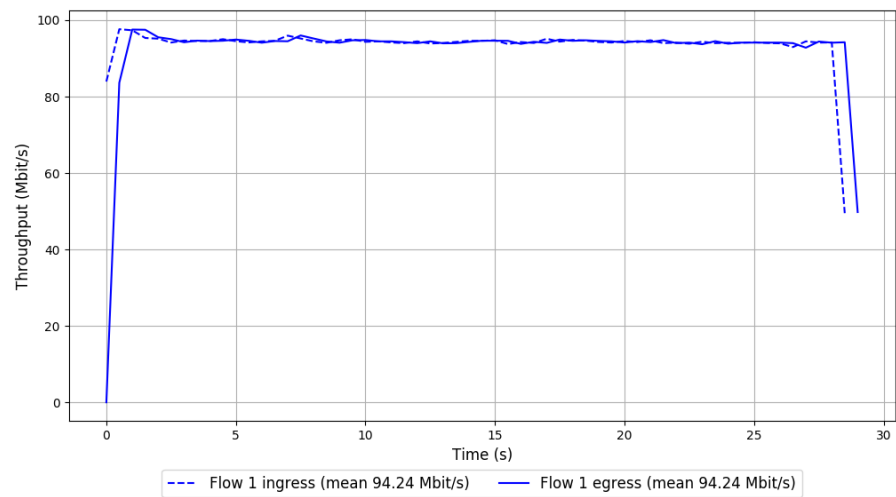
-- Flow 1:

Average throughput: 94.24 Mbit/s

95th percentile per-packet one-way delay: 2.279 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-07-12 00:21:37

End at: 2019-07-12 00:22:07

Local clock offset: -2.033 ms

Remote clock offset: 0.298 ms

Below is generated by plot.py at 2019-07-12 01:01:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.00 Mbit/s

95th percentile per-packet one-way delay: 2.408 ms

Loss rate: 0.00%

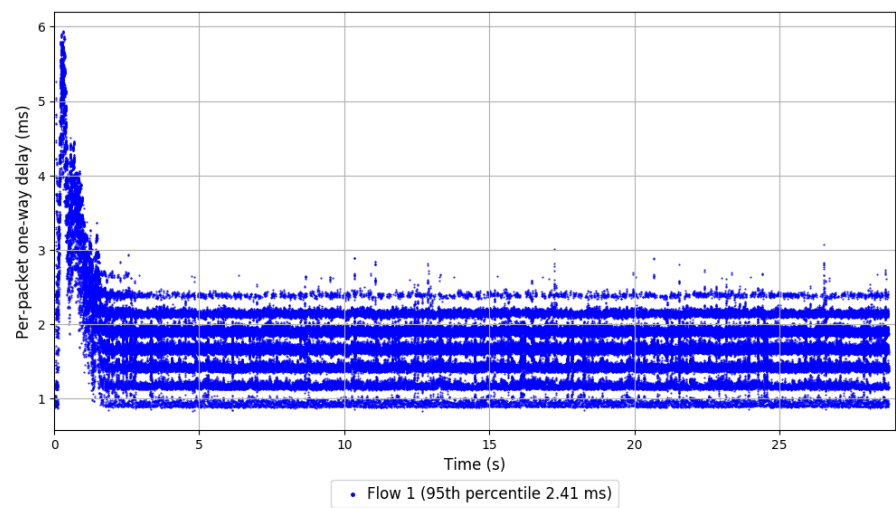
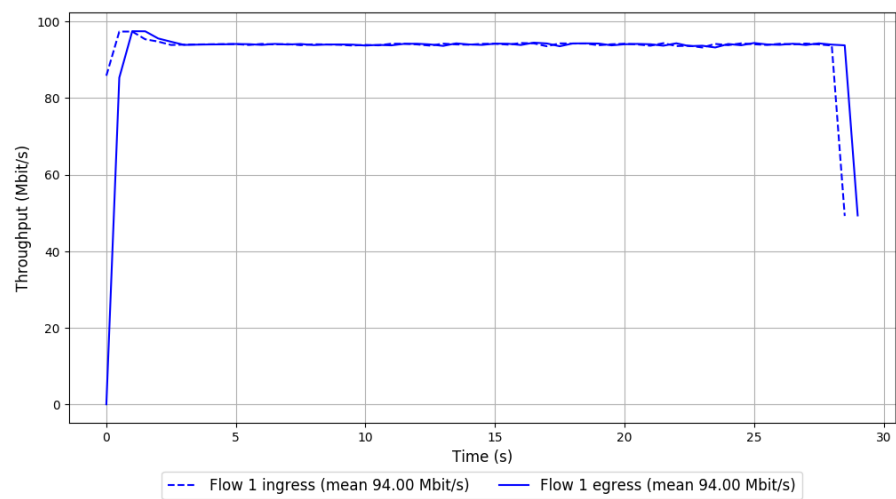
-- Flow 1:

Average throughput: 94.00 Mbit/s

95th percentile per-packet one-way delay: 2.408 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-07-12 00:48:26

End at: 2019-07-12 00:48:56

Local clock offset: -2.528 ms

Remote clock offset: 0.392 ms

Below is generated by plot.py at 2019-07-12 01:01:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.43 Mbit/s

95th percentile per-packet one-way delay: 4.198 ms

Loss rate: 0.00%

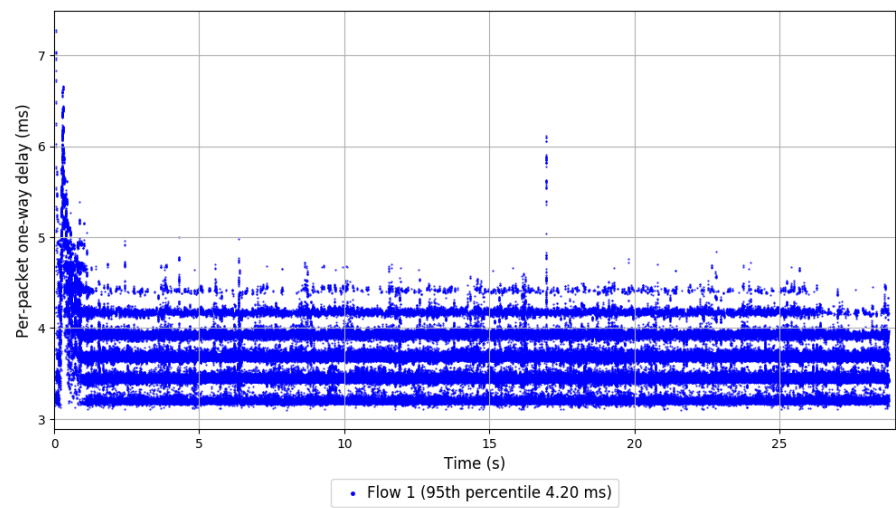
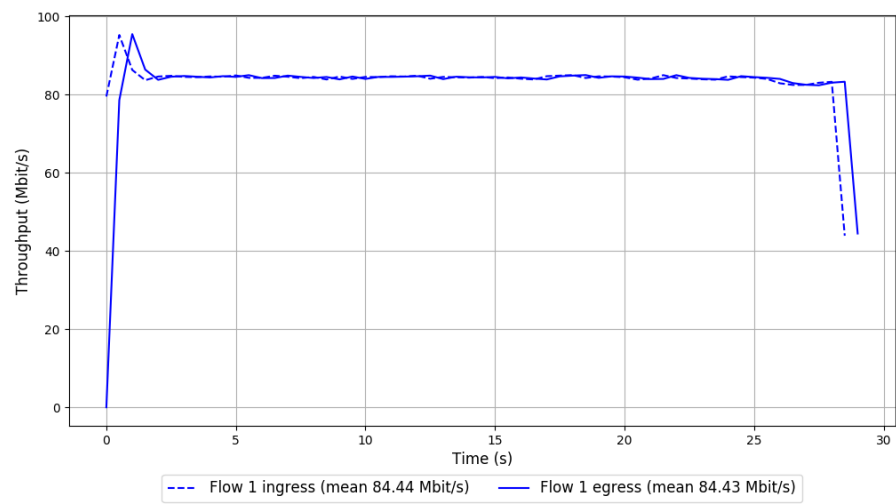
-- Flow 1:

Average throughput: 84.43 Mbit/s

95th percentile per-packet one-way delay: 4.198 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesT — Data Link

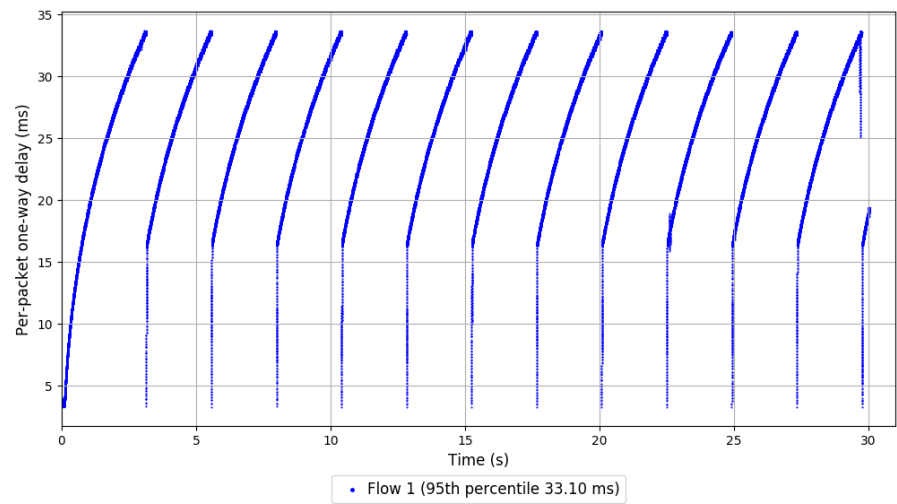
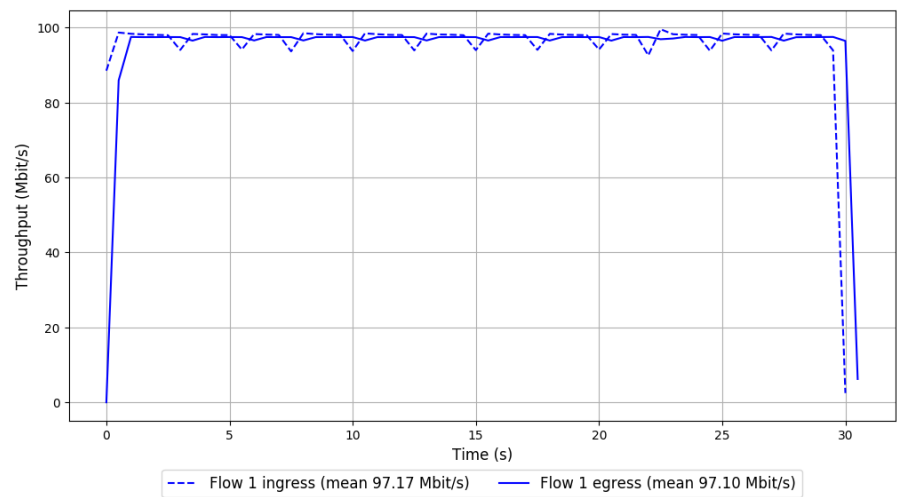


Run 1: Statistics of LEDBAT

Start at: 2019-07-11 23:05:53
End at: 2019-07-11 23:06:23
Local clock offset: -1.751 ms
Remote clock offset: -0.105 ms

Below is generated by plot.py at 2019-07-12 01:01:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.10 Mbit/s
95th percentile per-packet one-way delay: 33.101 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.10 Mbit/s
95th percentile per-packet one-way delay: 33.101 ms
Loss rate: 0.01%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-07-11 23:32:35

End at: 2019-07-11 23:33:05

Local clock offset: -2.615 ms

Remote clock offset: 0.048 ms

Below is generated by plot.py at 2019-07-12 01:01:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.22 Mbit/s

95th percentile per-packet one-way delay: 31.496 ms

Loss rate: 0.01%

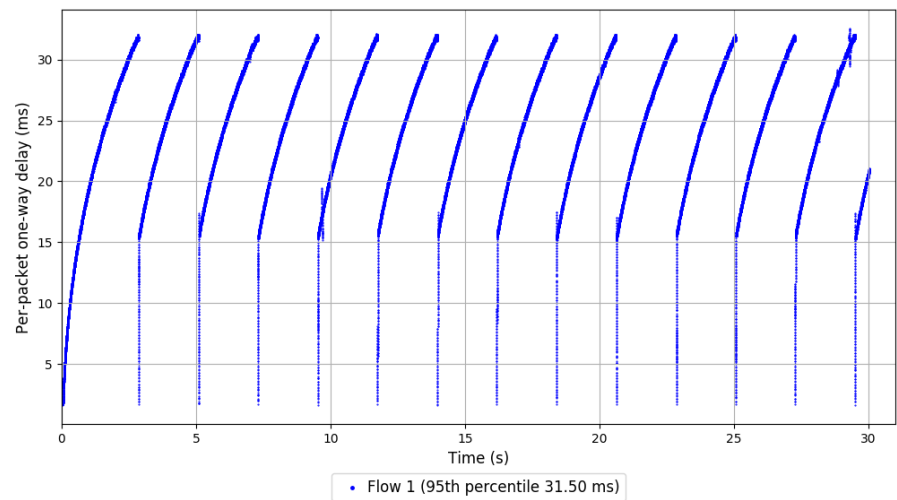
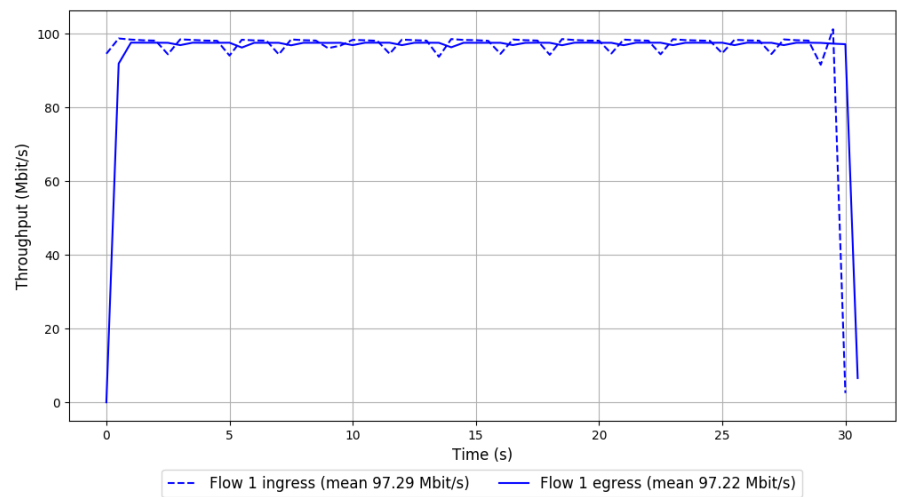
-- Flow 1:

Average throughput: 97.22 Mbit/s

95th percentile per-packet one-way delay: 31.496 ms

Loss rate: 0.01%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-07-11 23:59:20

End at: 2019-07-11 23:59:50

Local clock offset: -1.826 ms

Remote clock offset: 0.094 ms

Below is generated by plot.py at 2019-07-12 01:02:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.90 Mbit/s

95th percentile per-packet one-way delay: 33.577 ms

Loss rate: 0.07%

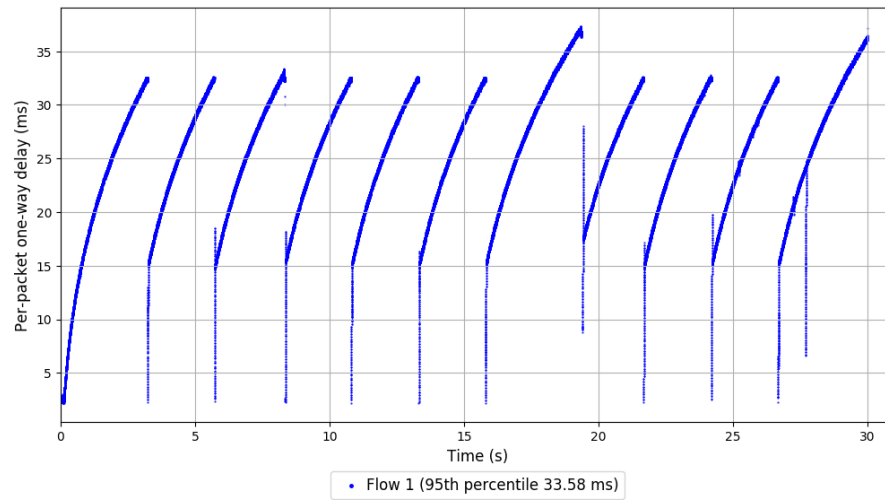
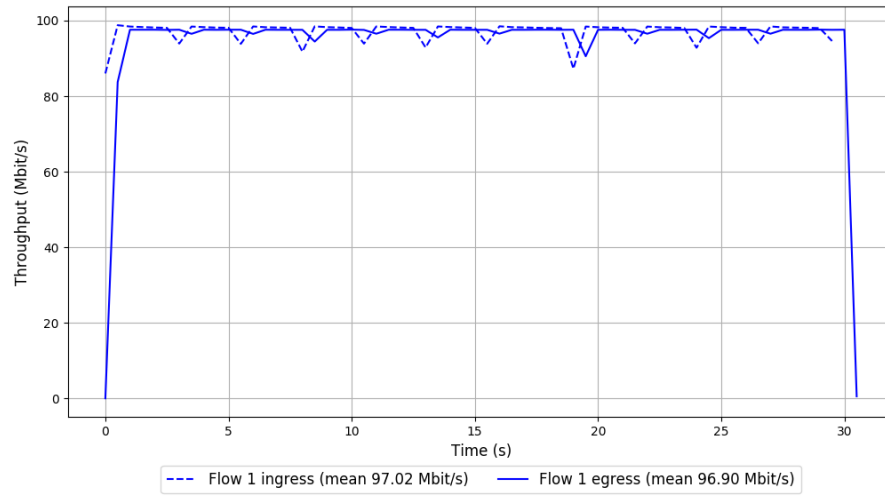
-- Flow 1:

Average throughput: 96.90 Mbit/s

95th percentile per-packet one-way delay: 33.577 ms

Loss rate: 0.07%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-07-12 00:26:06

End at: 2019-07-12 00:26:36

Local clock offset: -1.965 ms

Remote clock offset: 0.269 ms

Below is generated by plot.py at 2019-07-12 01:02:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.24 Mbit/s

95th percentile per-packet one-way delay: 30.564 ms

Loss rate: 0.01%

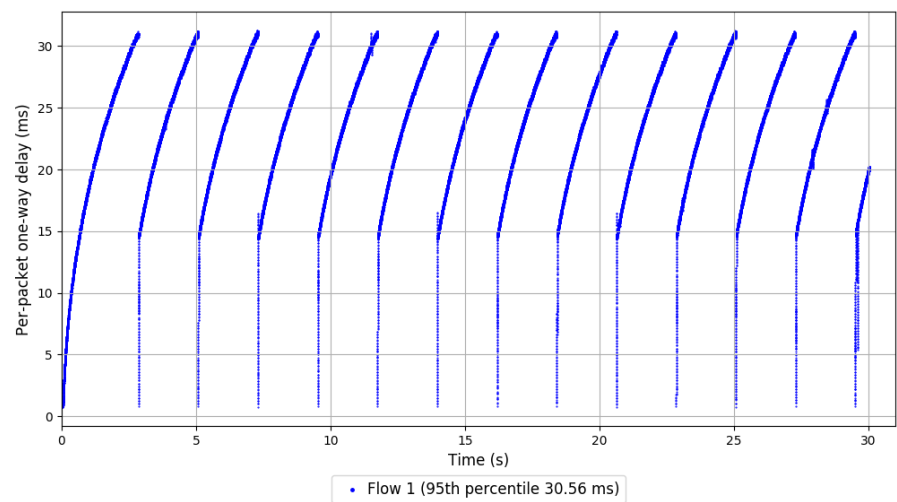
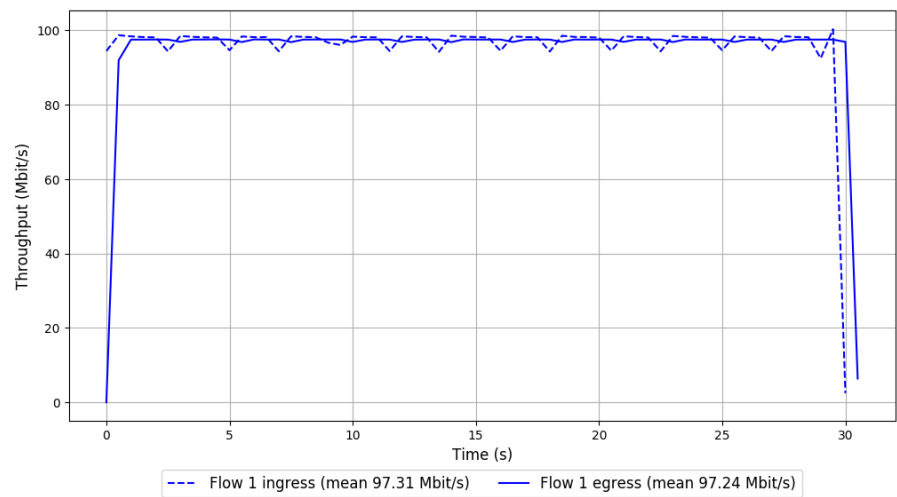
-- Flow 1:

Average throughput: 97.24 Mbit/s

95th percentile per-packet one-way delay: 30.564 ms

Loss rate: 0.01%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-07-12 00:52:54

End at: 2019-07-12 00:53:24

Local clock offset: -1.958 ms

Remote clock offset: 0.307 ms

Below is generated by plot.py at 2019-07-12 01:02:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.24 Mbit/s

95th percentile per-packet one-way delay: 30.769 ms

Loss rate: 0.01%

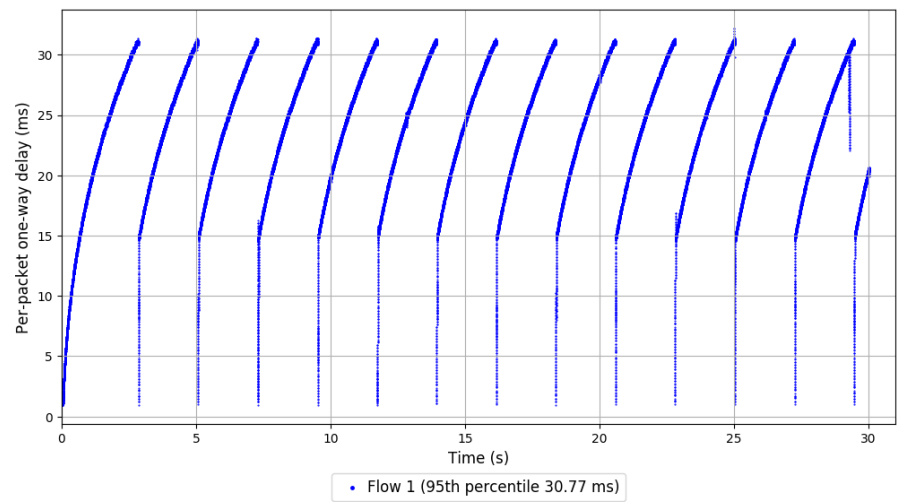
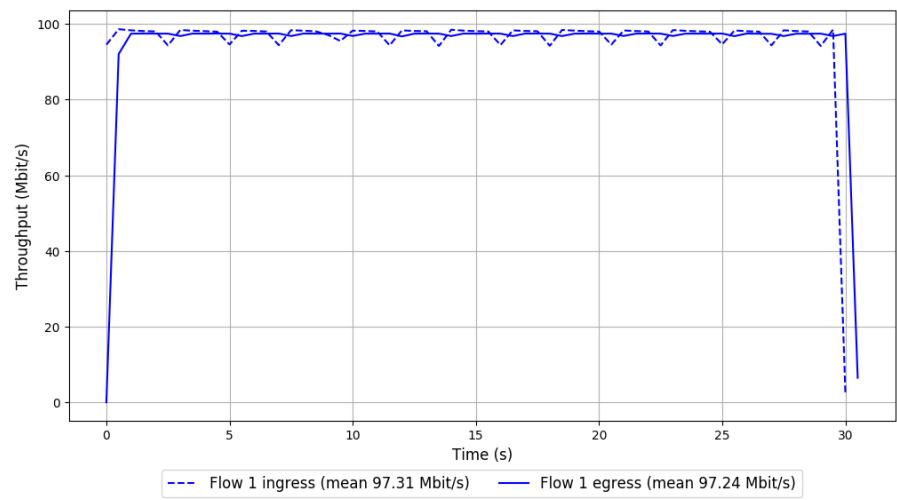
-- Flow 1:

Average throughput: 97.24 Mbit/s

95th percentile per-packet one-way delay: 30.769 ms

Loss rate: 0.01%

Run 5: Report of LEDBAT — Data Link

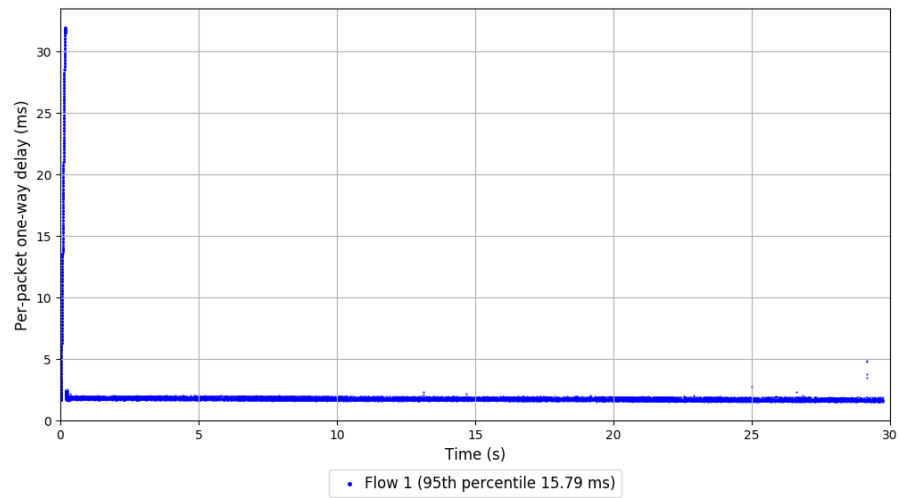
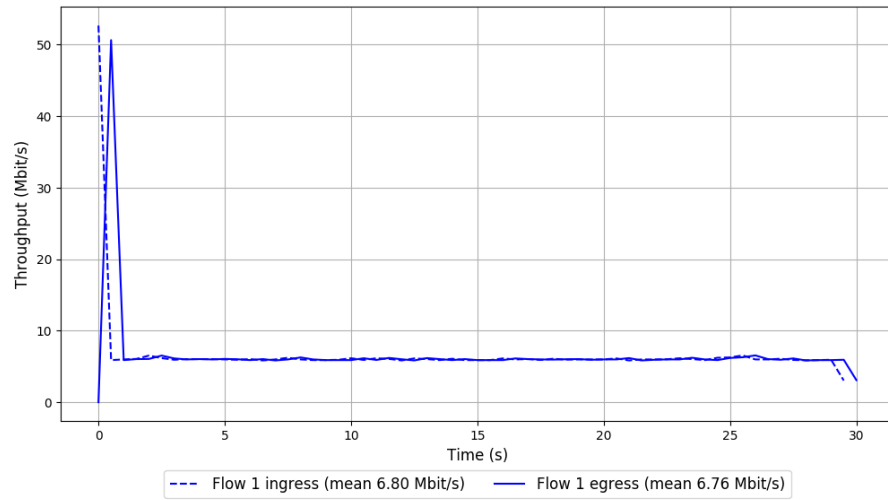


Run 1: Statistics of Muses_DecisionTree

Start at: 2019-07-11 22:59:11
End at: 2019-07-11 22:59:41
Local clock offset: -0.256 ms
Remote clock offset: -0.167 ms

Below is generated by plot.py at 2019-07-12 01:02:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.76 Mbit/s
95th percentile per-packet one-way delay: 15.795 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 6.76 Mbit/s
95th percentile per-packet one-way delay: 15.795 ms
Loss rate: 0.49%

Run 1: Report of Muses_DecisionTree — Data Link

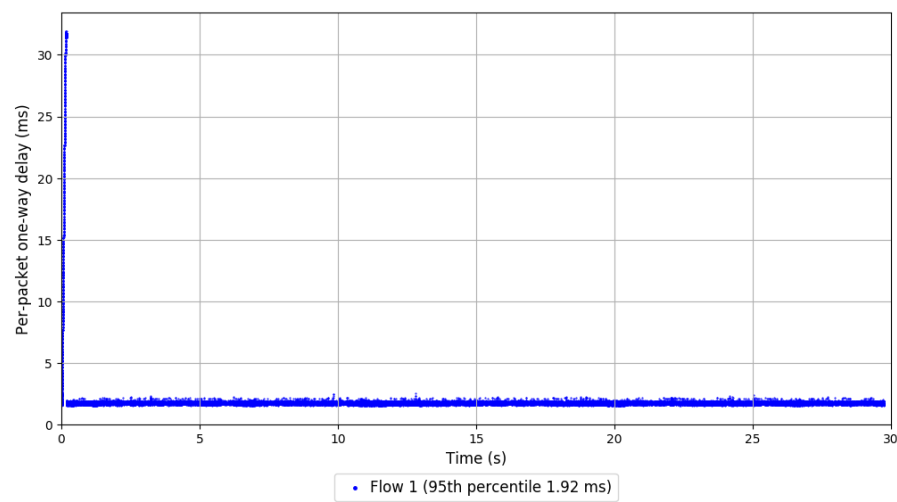
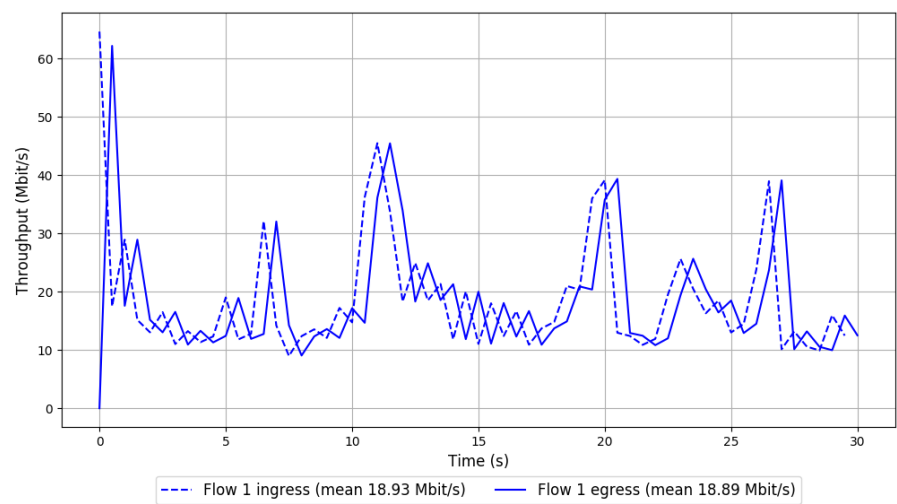


Run 2: Statistics of Muses_DecisionTree

Start at: 2019-07-11 23:25:53
End at: 2019-07-11 23:26:23
Local clock offset: -2.409 ms
Remote clock offset: -0.019 ms

Below is generated by plot.py at 2019-07-12 01:02:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 18.89 Mbit/s
95th percentile per-packet one-way delay: 1.920 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 18.89 Mbit/s
95th percentile per-packet one-way delay: 1.920 ms
Loss rate: 0.20%

Run 2: Report of Muses_DecisionTree — Data Link



Run 3: Statistics of Muses_DecisionTree

Start at: 2019-07-11 23:52:38

End at: 2019-07-11 23:53:08

Local clock offset: -2.67 ms

Remote clock offset: 0.165 ms

Below is generated by plot.py at 2019-07-12 01:02:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.94 Mbit/s

95th percentile per-packet one-way delay: 1.990 ms

Loss rate: 0.21%

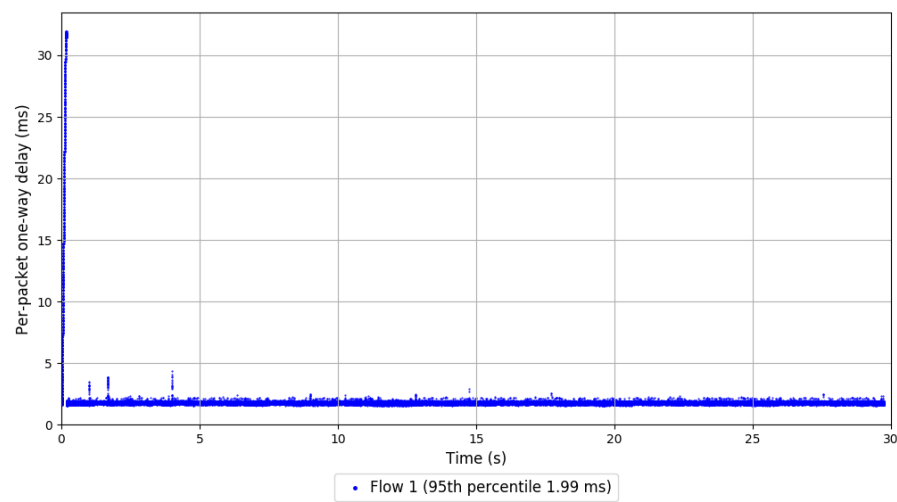
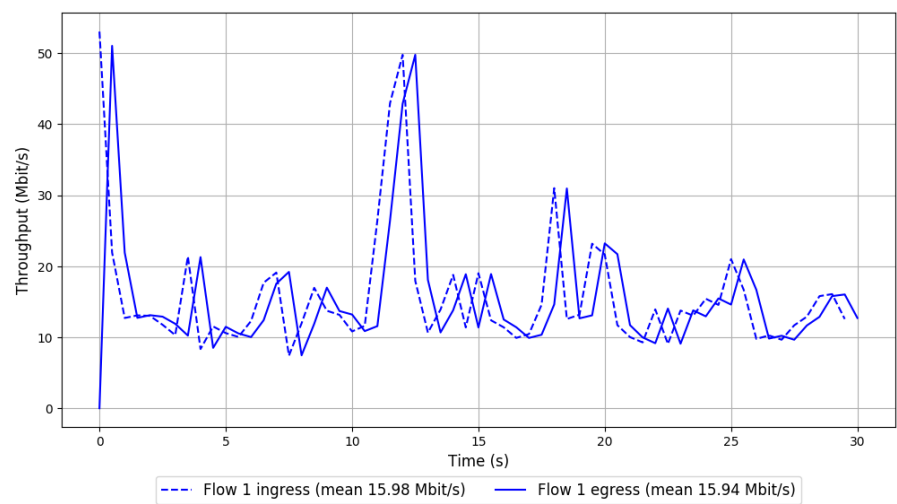
-- Flow 1:

Average throughput: 15.94 Mbit/s

95th percentile per-packet one-way delay: 1.990 ms

Loss rate: 0.21%

Run 3: Report of Muses_DecisionTree — Data Link



Run 4: Statistics of Muses_DecisionTree

Start at: 2019-07-12 00:19:22

End at: 2019-07-12 00:19:52

Local clock offset: -1.984 ms

Remote clock offset: 0.221 ms

Below is generated by plot.py at 2019-07-12 01:02:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.93 Mbit/s

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

Loss rate: 0.09%

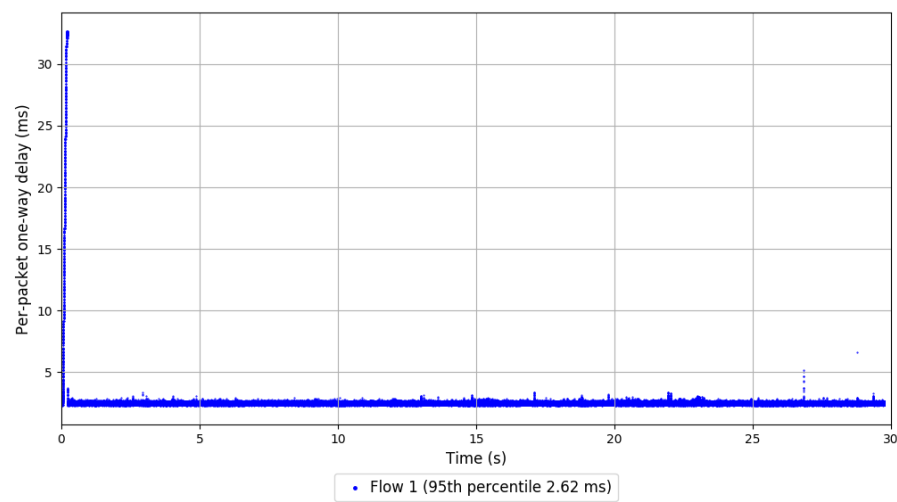
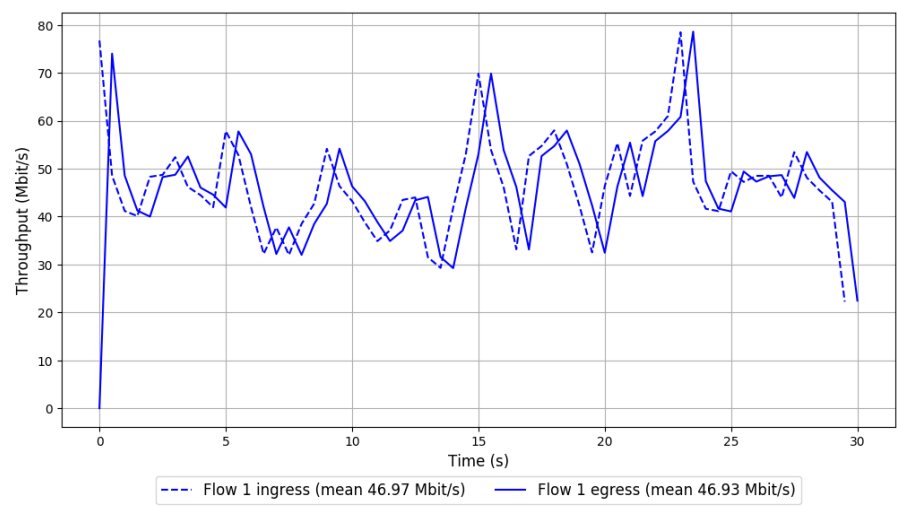
-- Flow 1:

Average throughput: 46.93 Mbit/s

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

Loss rate: 0.09%

Run 4: Report of Muses_DecisionTree — Data Link



Run 5: Statistics of Muses_DecisionTree

Start at: 2019-07-12 00:46:11

End at: 2019-07-12 00:46:41

Local clock offset: -2.011 ms

Remote clock offset: 0.285 ms

Below is generated by plot.py at 2019-07-12 01:02:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.49 Mbit/s

95th percentile per-packet one-way delay: 1.334 ms

Loss rate: 0.13%

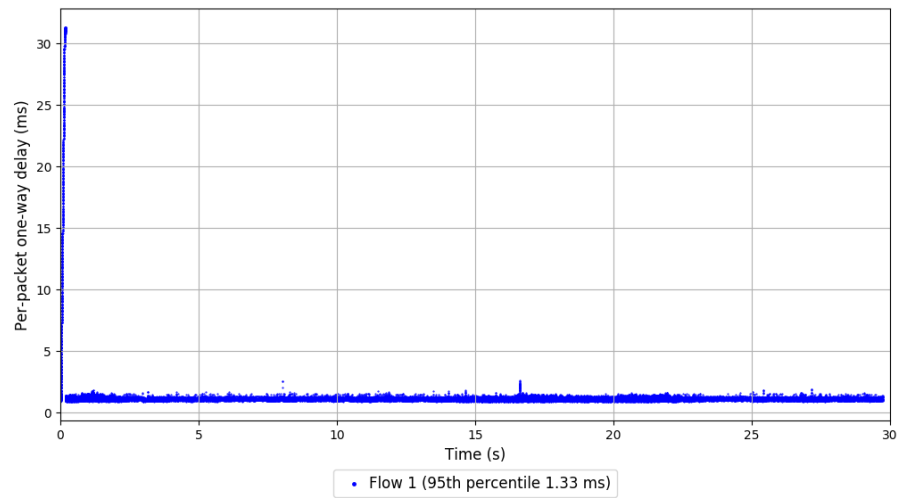
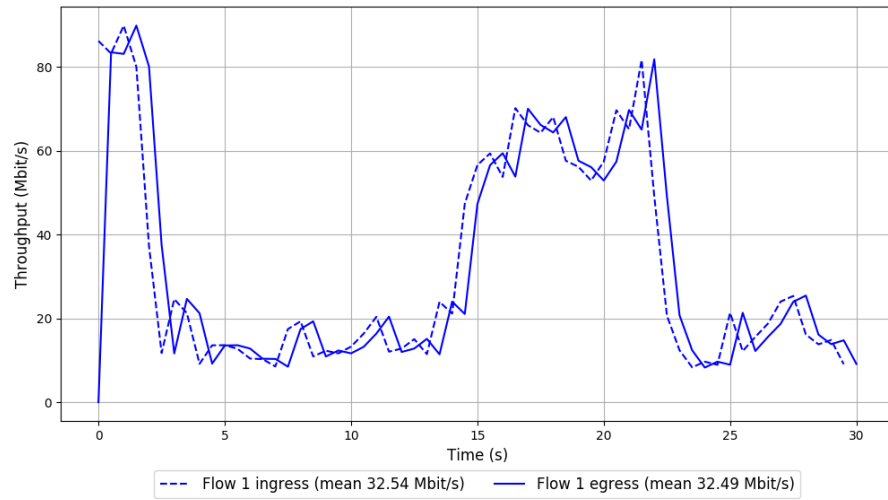
-- Flow 1:

Average throughput: 32.49 Mbit/s

95th percentile per-packet one-way delay: 1.334 ms

Loss rate: 0.13%

Run 5: Report of Muses_DecisionTree — Data Link

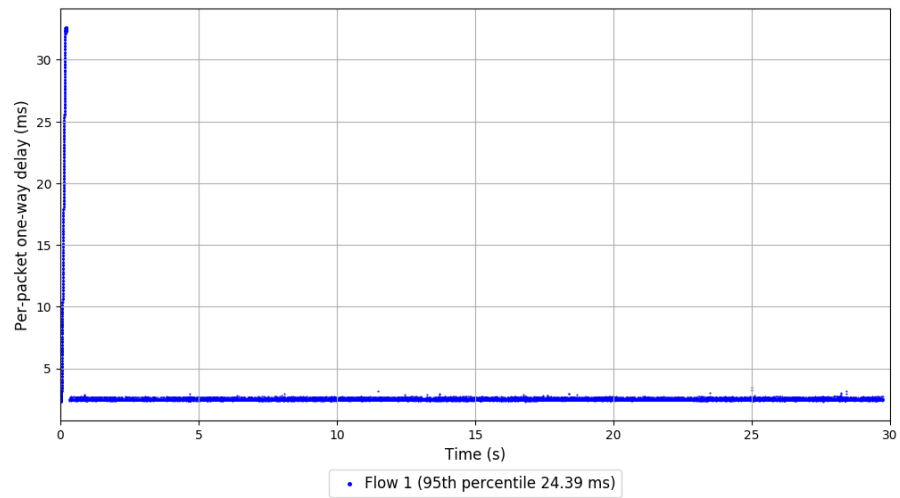
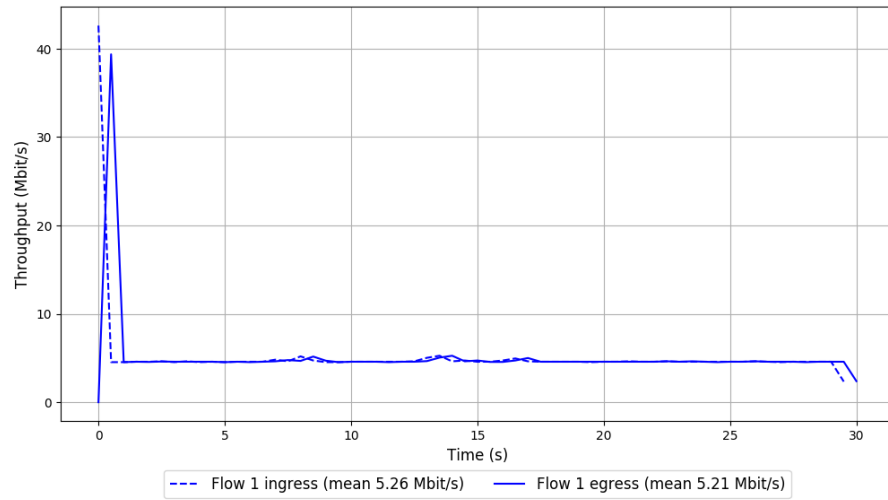


Run 1: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-11 22:48:10
End at: 2019-07-11 22:48:40
Local clock offset: 0.296 ms
Remote clock offset: -0.265 ms

Below is generated by plot.py at 2019-07-12 01:02:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 5.21 Mbit/s
95th percentile per-packet one-way delay: 24.392 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 5.21 Mbit/s
95th percentile per-packet one-way delay: 24.392 ms
Loss rate: 1.02%

Run 1: Report of Muses_DecisionTreeH0 — Data Link

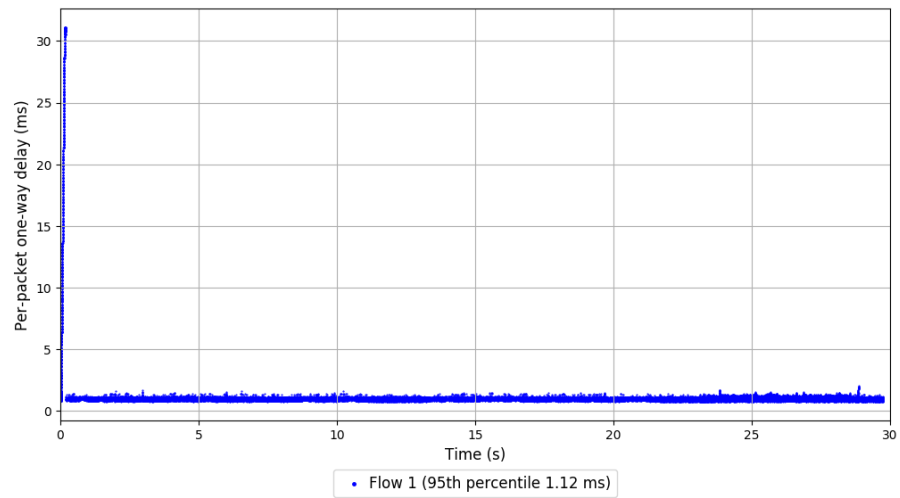
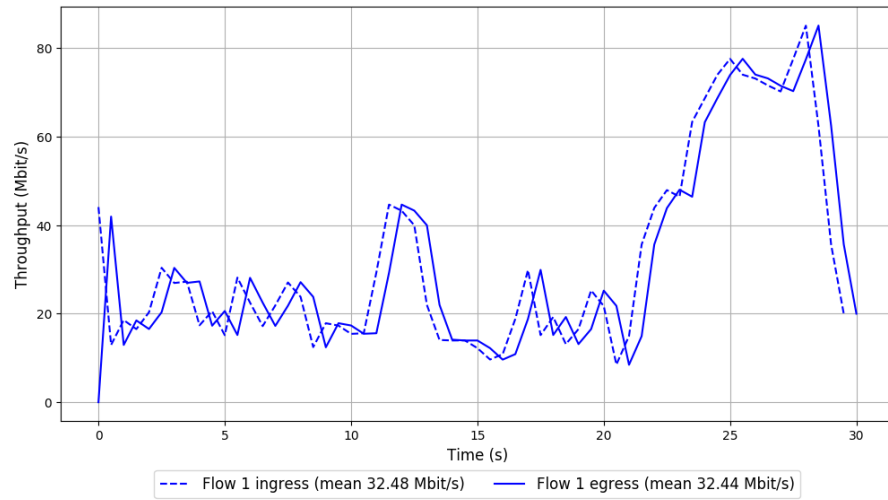


Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-11 23:14:51
End at: 2019-07-11 23:15:21
Local clock offset: -1.43 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2019-07-12 01:02:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 32.44 Mbit/s
95th percentile per-packet one-way delay: 1.122 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 32.44 Mbit/s
95th percentile per-packet one-way delay: 1.122 ms
Loss rate: 0.11%

Run 2: Report of Muses_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-11 23:41:32
End at: 2019-07-11 23:42:02
Local clock offset: -2.678 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2019-07-12 01:03:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.98 Mbit/s

95th percentile per-packet one-way delay: 3.800 ms

Loss rate: 0.05%

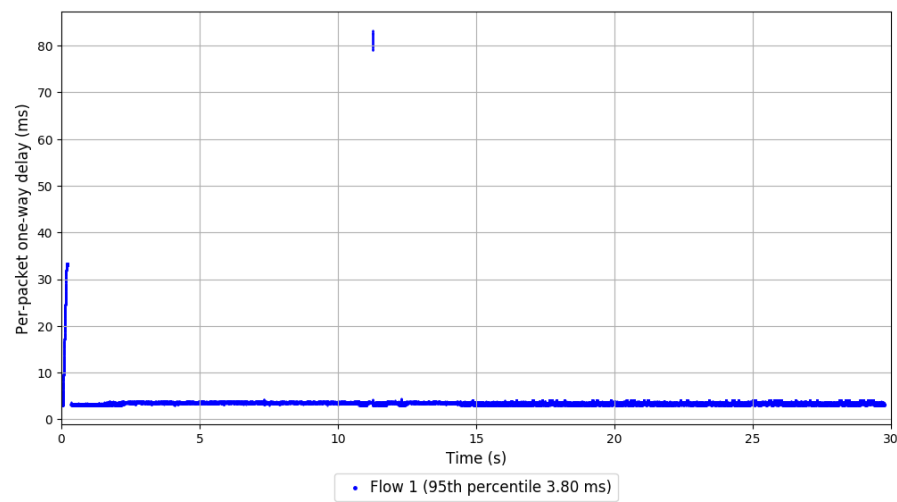
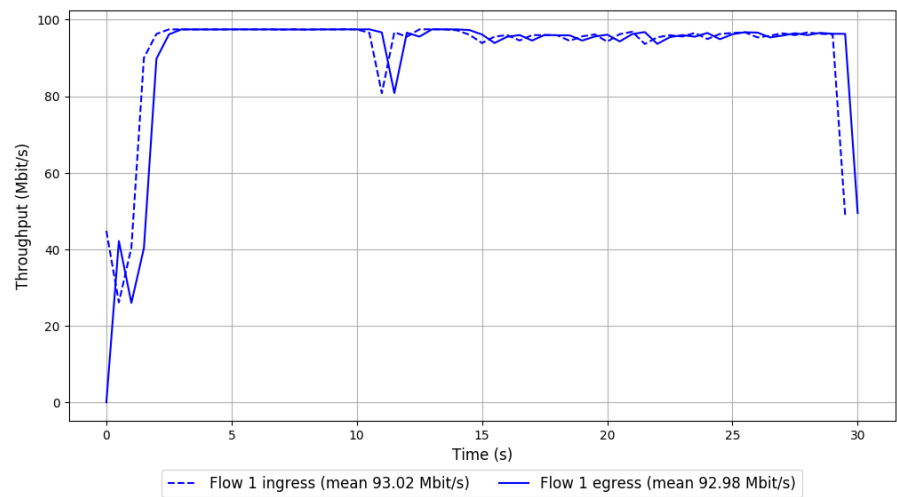
-- Flow 1:

Average throughput: 92.98 Mbit/s

95th percentile per-packet one-way delay: 3.800 ms

Loss rate: 0.05%

Run 3: Report of Muses_DecisionTreeH0 — Data Link



Run 4: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-12 00:08:19

End at: 2019-07-12 00:08:49

Local clock offset: -2.99 ms

Remote clock offset: 0.179 ms

Below is generated by plot.py at 2019-07-12 01:03:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.67 Mbit/s

95th percentile per-packet one-way delay: 2.123 ms

Loss rate: 0.07%

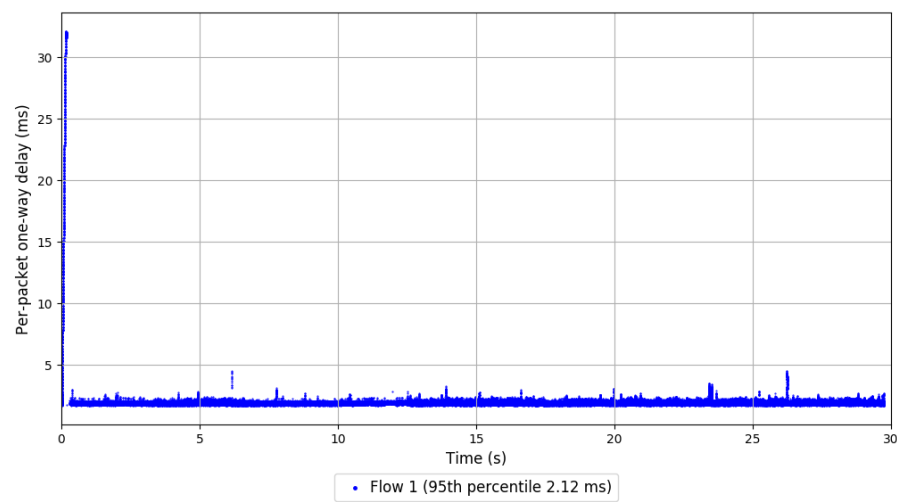
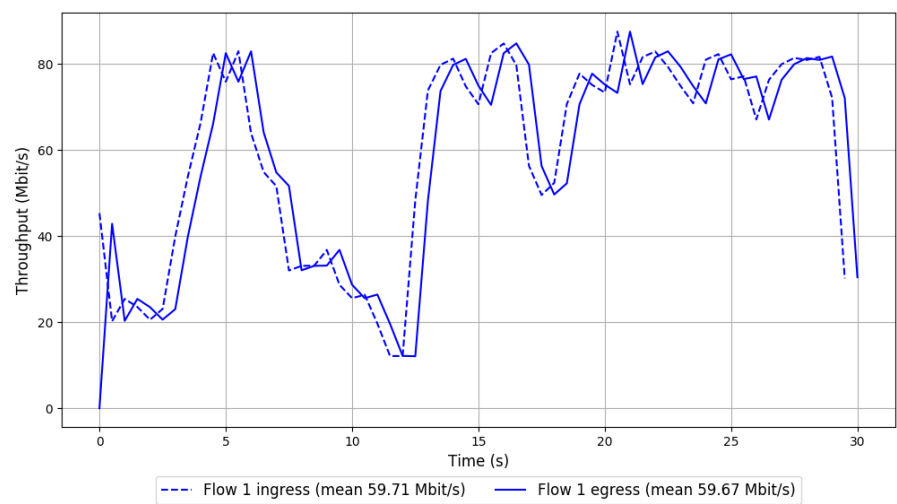
-- Flow 1:

Average throughput: 59.67 Mbit/s

95th percentile per-packet one-way delay: 2.123 ms

Loss rate: 0.07%

Run 4: Report of Muses_DecisionTreeH0 — Data Link



Run 5: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-12 00:35:02

End at: 2019-07-12 00:35:32

Local clock offset: -2.118 ms

Remote clock offset: 0.269 ms

Below is generated by plot.py at 2019-07-12 01:03:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.03 Mbit/s

95th percentile per-packet one-way delay: 1.343 ms

Loss rate: 0.08%

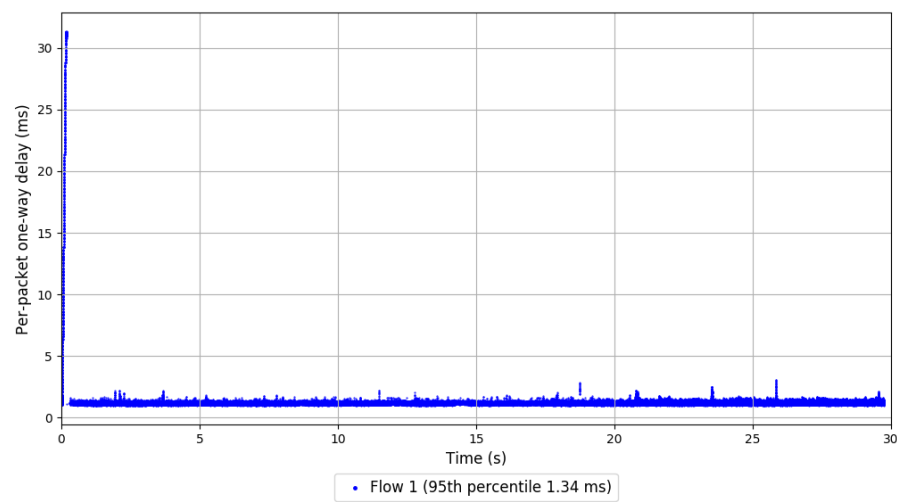
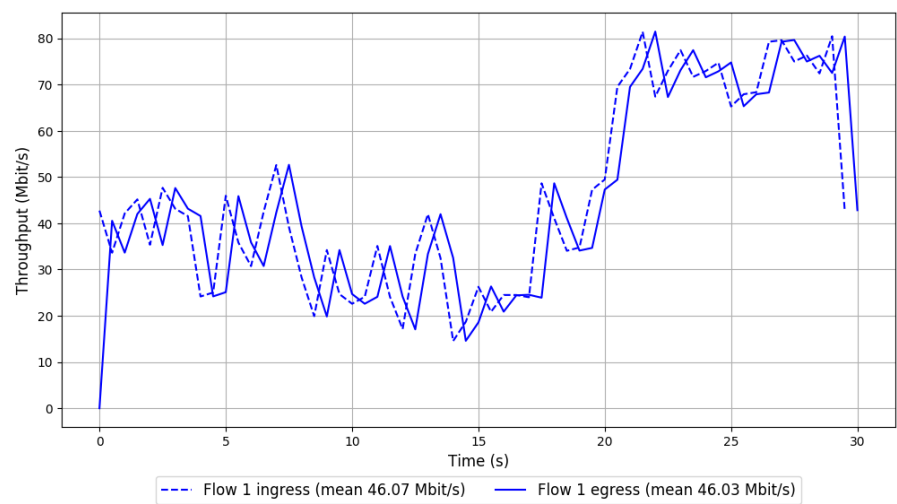
-- Flow 1:

Average throughput: 46.03 Mbit/s

95th percentile per-packet one-way delay: 1.343 ms

Loss rate: 0.08%

Run 5: Report of Muses_DecisionTreeH0 — Data Link

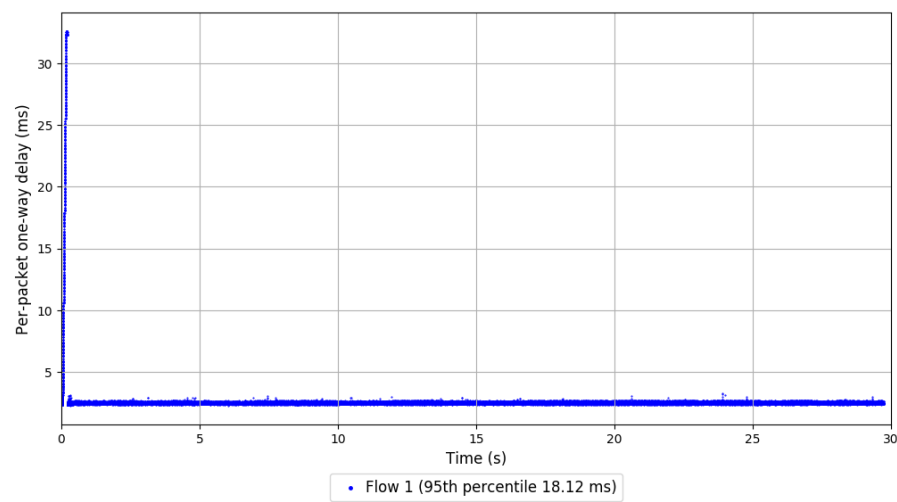
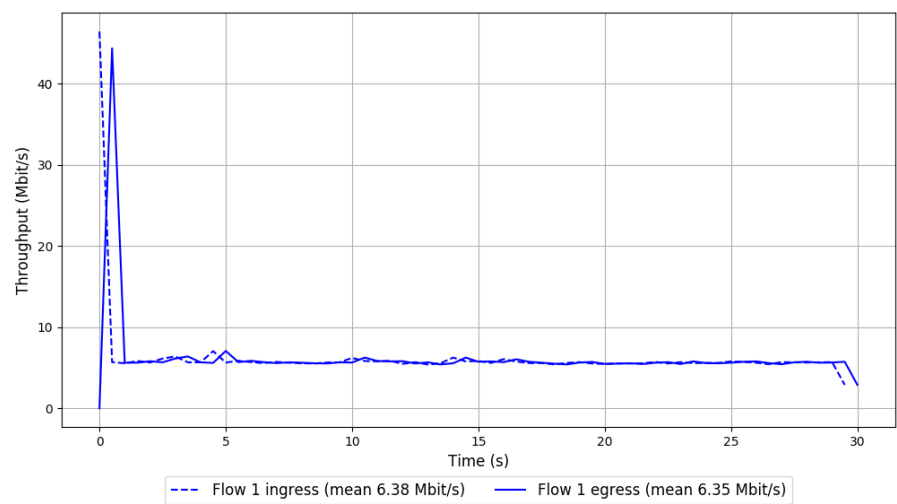


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-11 22:58:06
End at: 2019-07-11 22:58:37
Local clock offset: 0.728 ms
Remote clock offset: -0.259 ms

# Below is generated by plot.py at 2019-07-12 01:03:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.35 Mbit/s
95th percentile per-packet one-way delay: 18.123 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 6.35 Mbit/s
95th percentile per-packet one-way delay: 18.123 ms
Loss rate: 0.54%
```

Run 1: Report of Muses_DecisionTreeR0 — Data Link

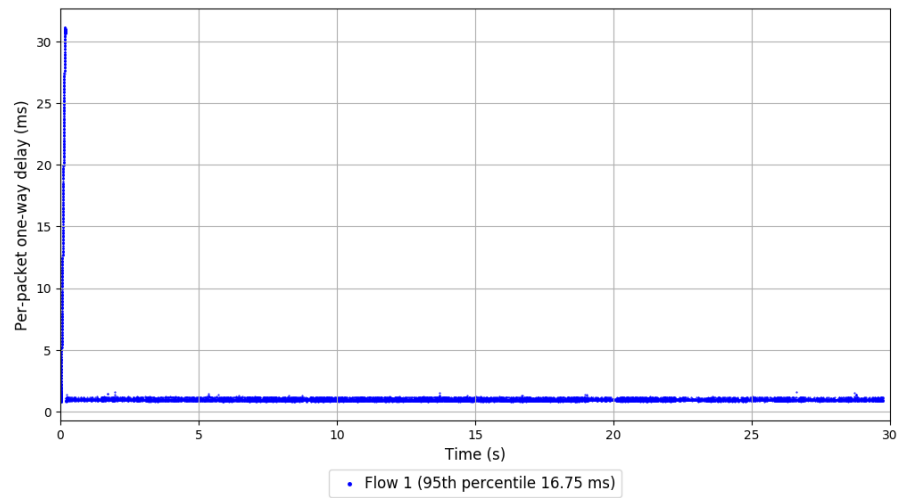
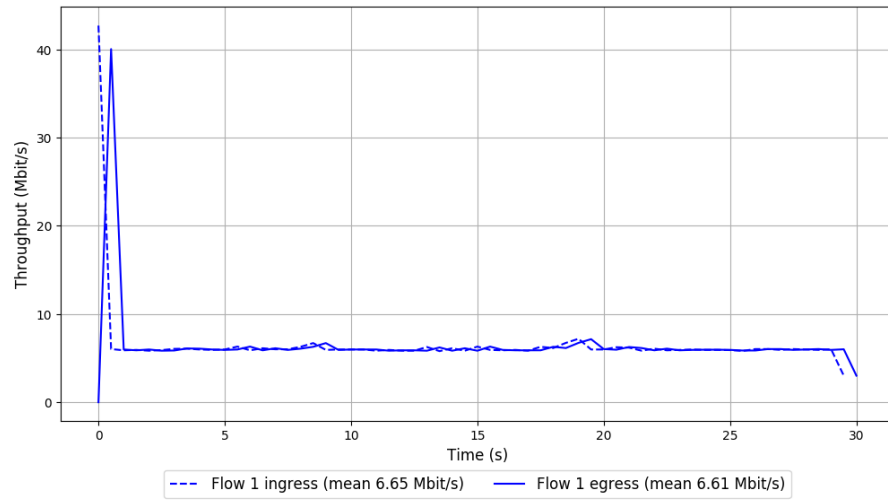


Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-11 23:24:49
End at: 2019-07-11 23:25:19
Local clock offset: -1.608 ms
Remote clock offset: -0.006 ms

Below is generated by plot.py at 2019-07-12 01:03:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.61 Mbit/s
95th percentile per-packet one-way delay: 16.752 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 6.61 Mbit/s
95th percentile per-packet one-way delay: 16.752 ms
Loss rate: 0.67%

Run 2: Report of Muses_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-11 23:51:33

End at: 2019-07-11 23:52:03

Local clock offset: -2.697 ms

Remote clock offset: 0.101 ms

Below is generated by plot.py at 2019-07-12 01:03:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.11 Mbit/s

95th percentile per-packet one-way delay: 5.192 ms

Loss rate: 0.24%

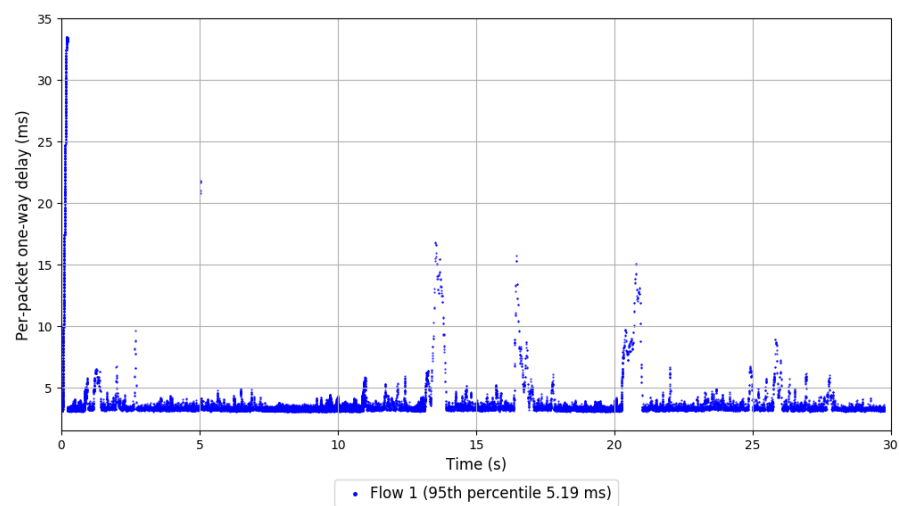
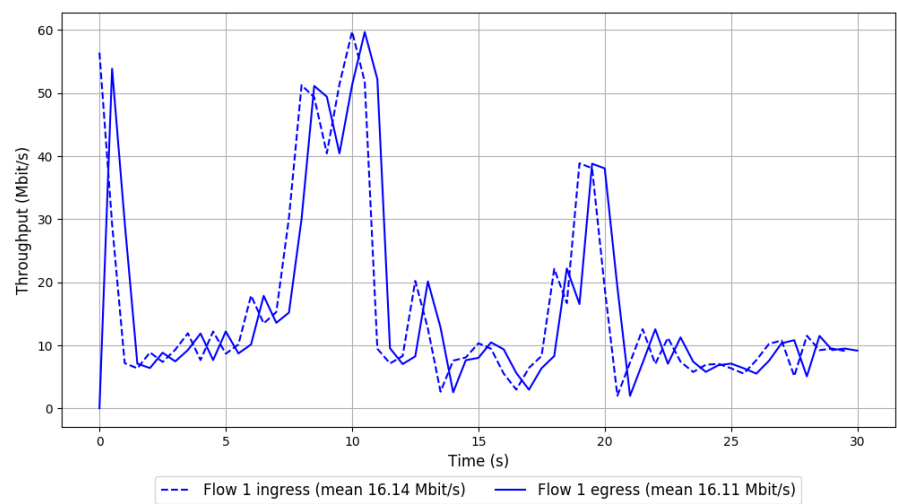
-- Flow 1:

Average throughput: 16.11 Mbit/s

95th percentile per-packet one-way delay: 5.192 ms

Loss rate: 0.24%

Run 3: Report of Muses_DecisionTreeR0 — Data Link



Run 4: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-12 00:18:17

End at: 2019-07-12 00:18:47

Local clock offset: -2.84 ms

Remote clock offset: 0.278 ms

Below is generated by plot.py at 2019-07-12 01:03:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.42 Mbit/s

95th percentile per-packet one-way delay: 8.538 ms

Loss rate: 0.32%

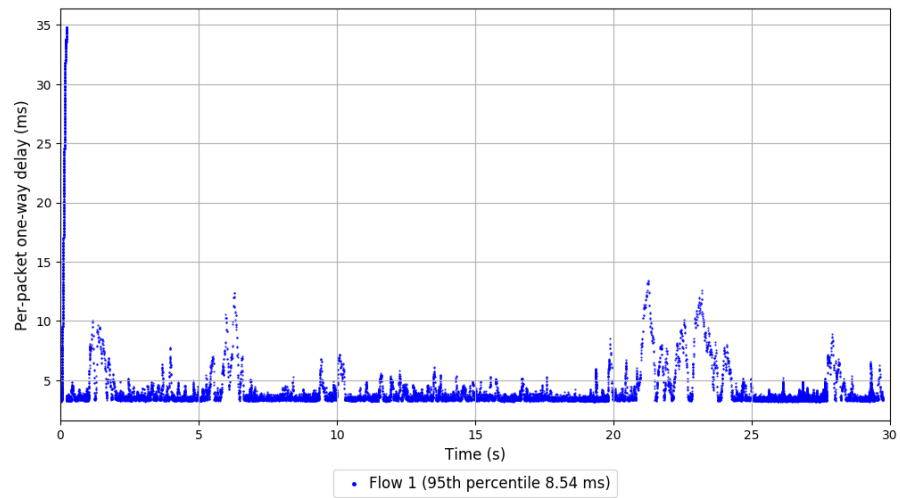
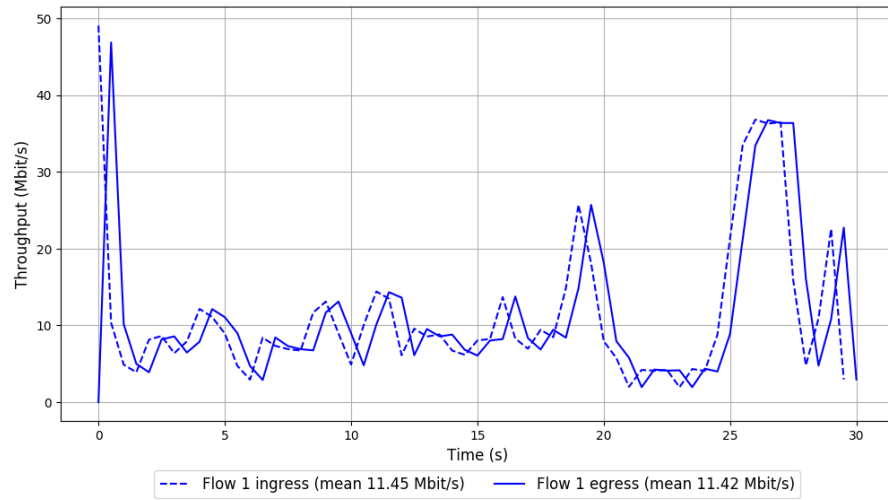
-- Flow 1:

Average throughput: 11.42 Mbit/s

95th percentile per-packet one-way delay: 8.538 ms

Loss rate: 0.32%

Run 4: Report of Muses_DecisionTreeR0 — Data Link

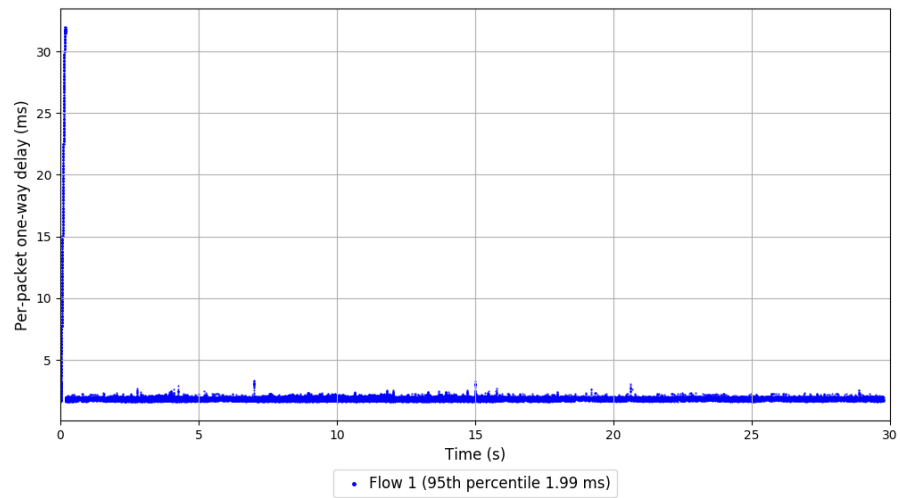
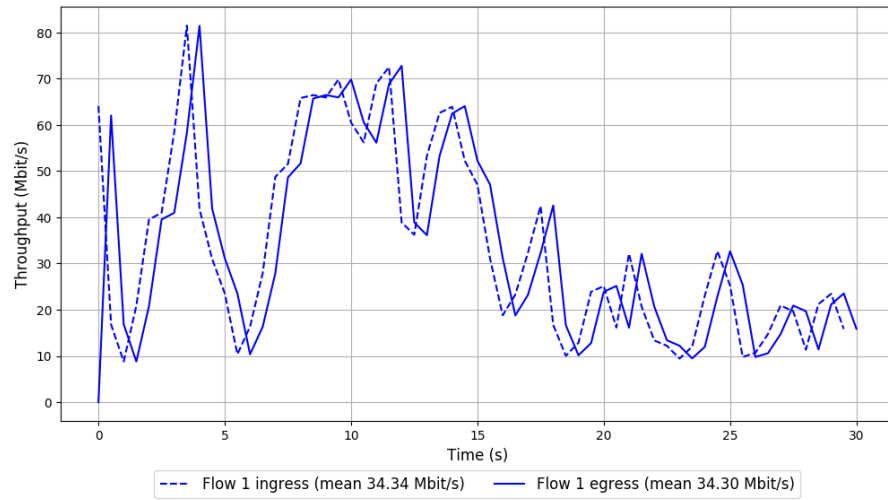


```
Run 5: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-12 00:45:00
End at: 2019-07-12 00:45:30
Local clock offset: -2.638 ms
Remote clock offset: 0.346 ms

# Below is generated by plot.py at 2019-07-12 01:03:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 34.30 Mbit/s
95th percentile per-packet one-way delay: 1.990 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 34.30 Mbit/s
95th percentile per-packet one-way delay: 1.990 ms
Loss rate: 0.10%
```

Run 5: Report of Muses_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-07-11 22:55:52

End at: 2019-07-11 22:56:22

Local clock offset: -0.167 ms

Remote clock offset: -0.256 ms

Below is generated by plot.py at 2019-07-12 01:03:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.99 Mbit/s

95th percentile per-packet one-way delay: 3.185 ms

Loss rate: 0.00%

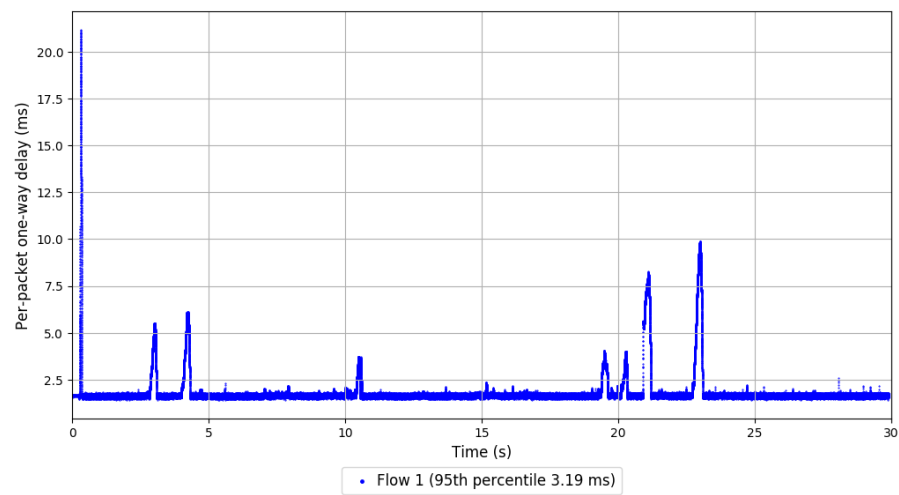
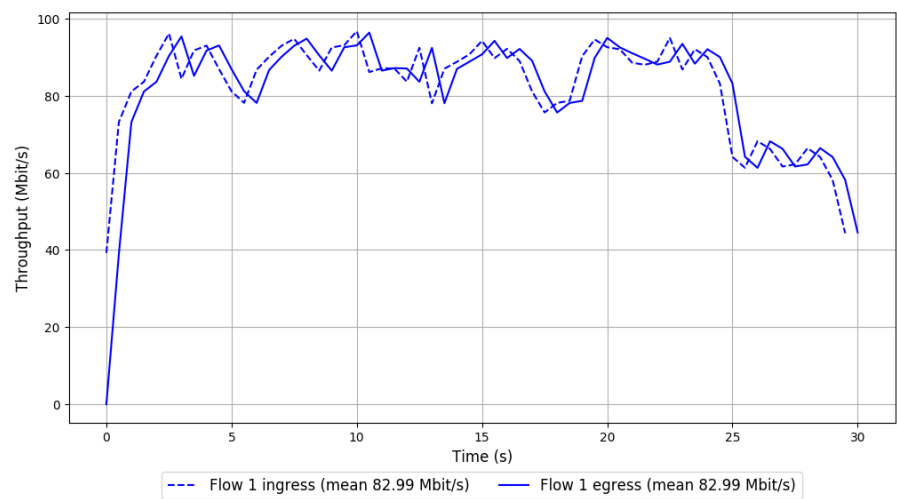
-- Flow 1:

Average throughput: 82.99 Mbit/s

95th percentile per-packet one-way delay: 3.185 ms

Loss rate: 0.00%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-07-11 23:22:34

End at: 2019-07-11 23:23:04

Local clock offset: -2.391 ms

Remote clock offset: -0.093 ms

Below is generated by plot.py at 2019-07-12 01:03:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.24 Mbit/s

95th percentile per-packet one-way delay: 4.065 ms

Loss rate: 0.00%

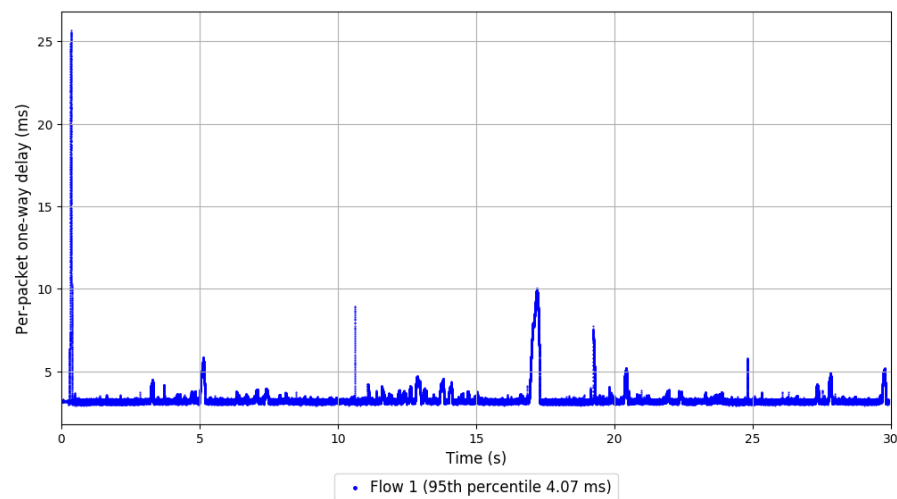
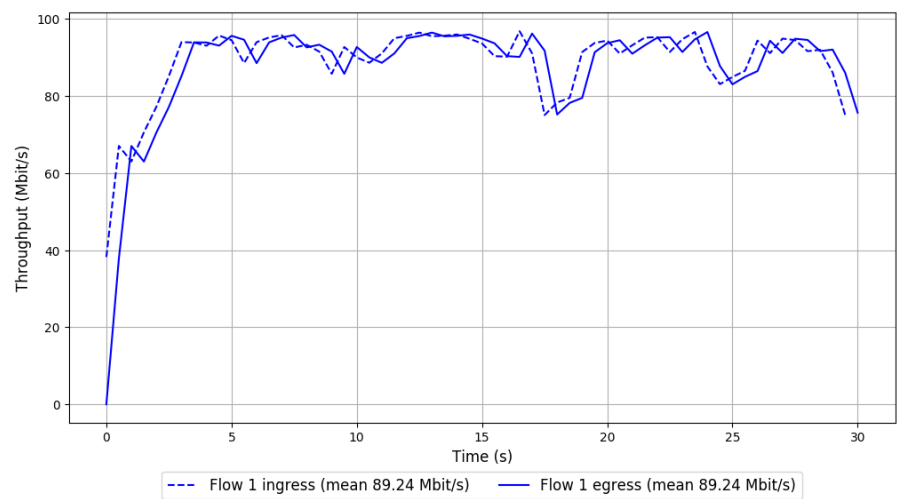
-- Flow 1:

Average throughput: 89.24 Mbit/s

95th percentile per-packet one-way delay: 4.065 ms

Loss rate: 0.00%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-07-11 23:49:19

End at: 2019-07-11 23:49:49

Local clock offset: -1.948 ms

Remote clock offset: 0.141 ms

Below is generated by plot.py at 2019-07-12 01:03:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.24 Mbit/s

95th percentile per-packet one-way delay: 3.480 ms

Loss rate: 0.00%

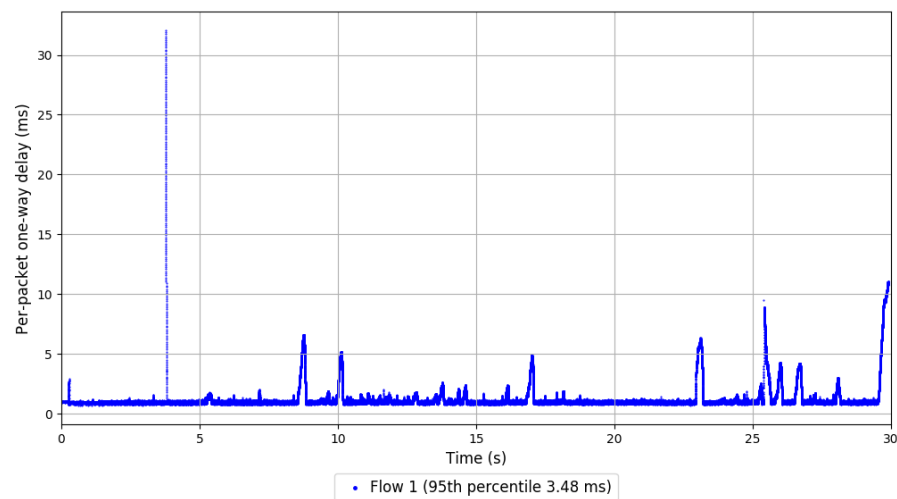
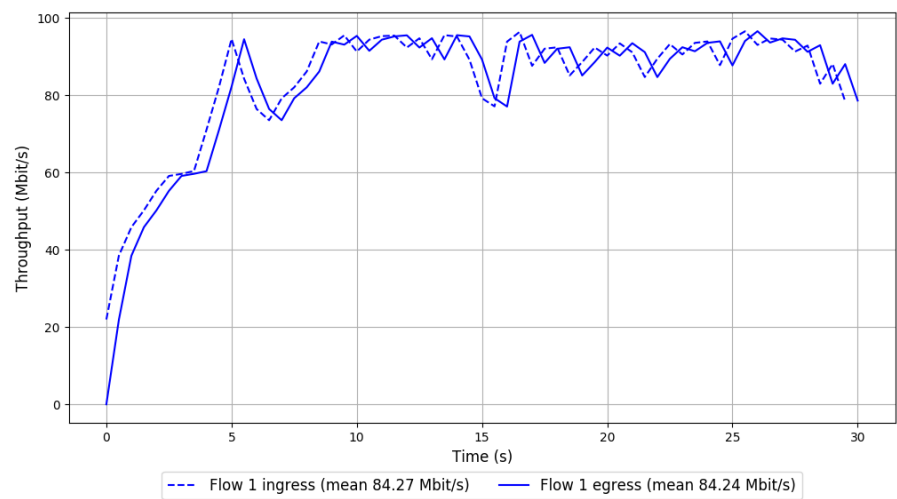
-- Flow 1:

Average throughput: 84.24 Mbit/s

95th percentile per-packet one-way delay: 3.480 ms

Loss rate: 0.00%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-07-12 00:16:03

End at: 2019-07-12 00:16:33

Local clock offset: -1.987 ms

Remote clock offset: 0.24 ms

Below is generated by plot.py at 2019-07-12 01:03:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.70 Mbit/s

95th percentile per-packet one-way delay: 1.628 ms

Loss rate: 0.00%

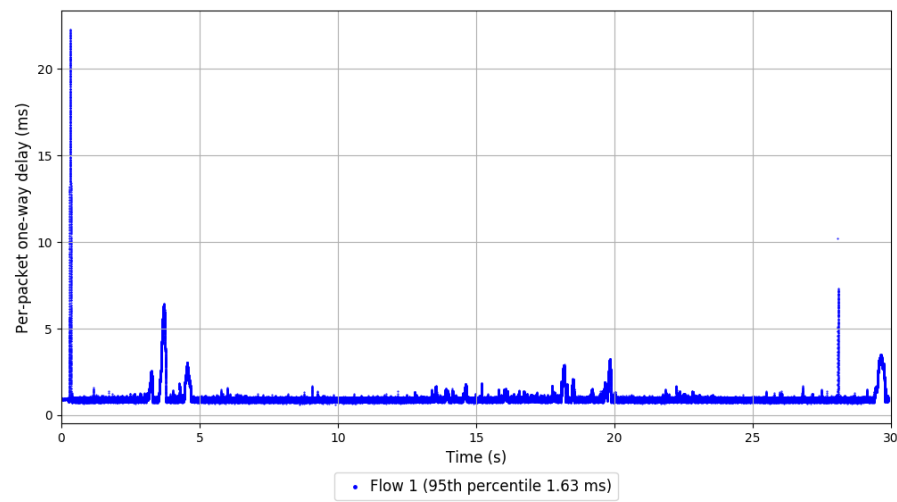
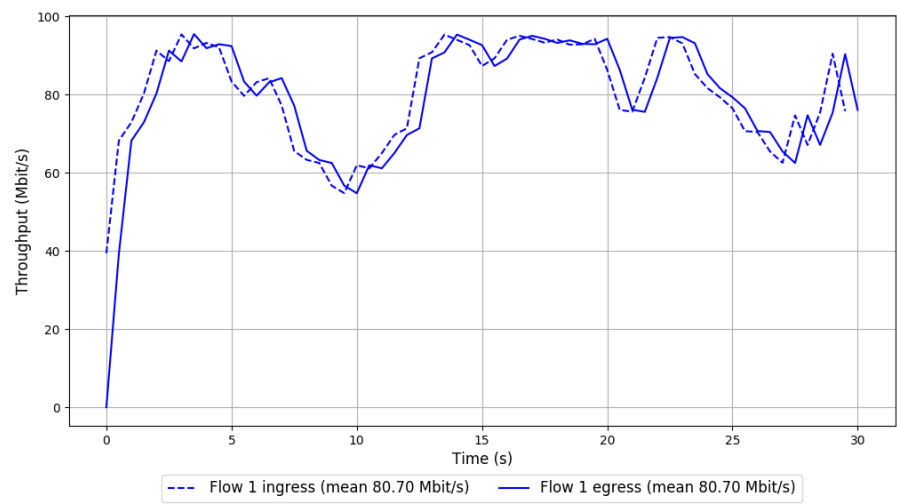
-- Flow 1:

Average throughput: 80.70 Mbit/s

95th percentile per-packet one-way delay: 1.628 ms

Loss rate: 0.00%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-07-12 00:42:46

End at: 2019-07-12 00:43:16

Local clock offset: -2.021 ms

Remote clock offset: 0.303 ms

Below is generated by plot.py at 2019-07-12 01:03:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.13 Mbit/s

95th percentile per-packet one-way delay: 1.721 ms

Loss rate: 0.00%

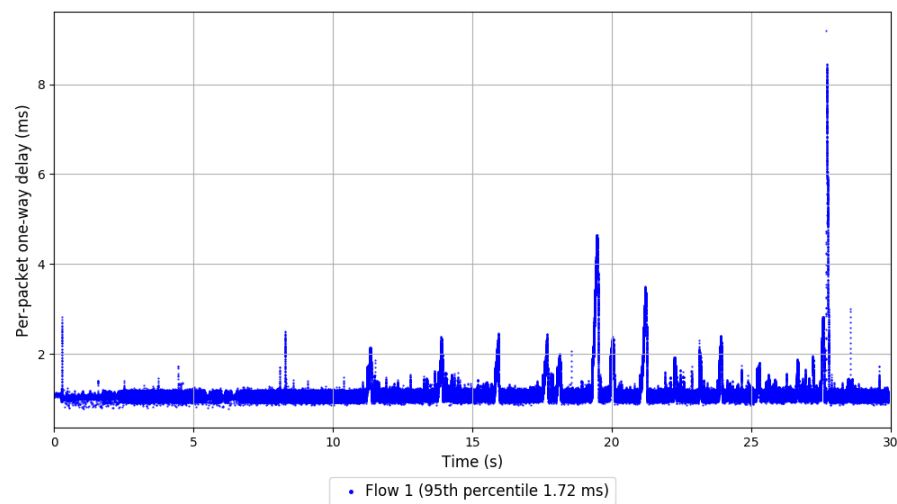
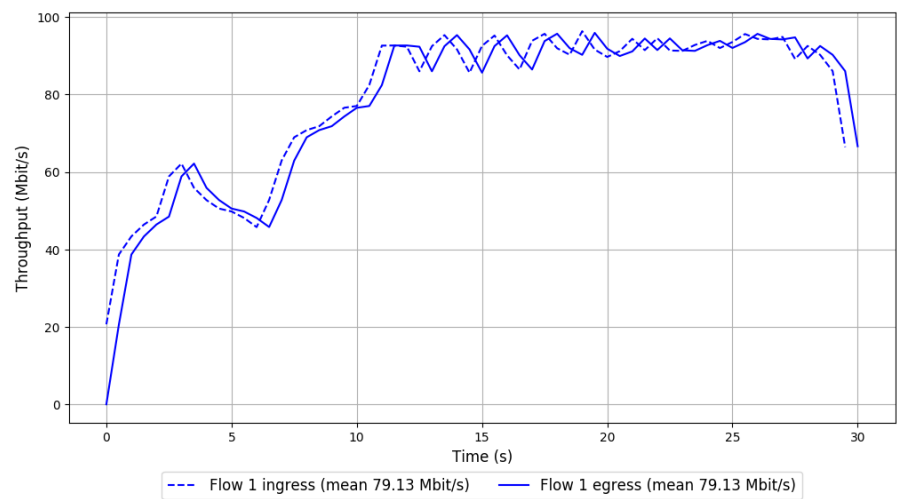
-- Flow 1:

Average throughput: 79.13 Mbit/s

95th percentile per-packet one-way delay: 1.721 ms

Loss rate: 0.00%

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

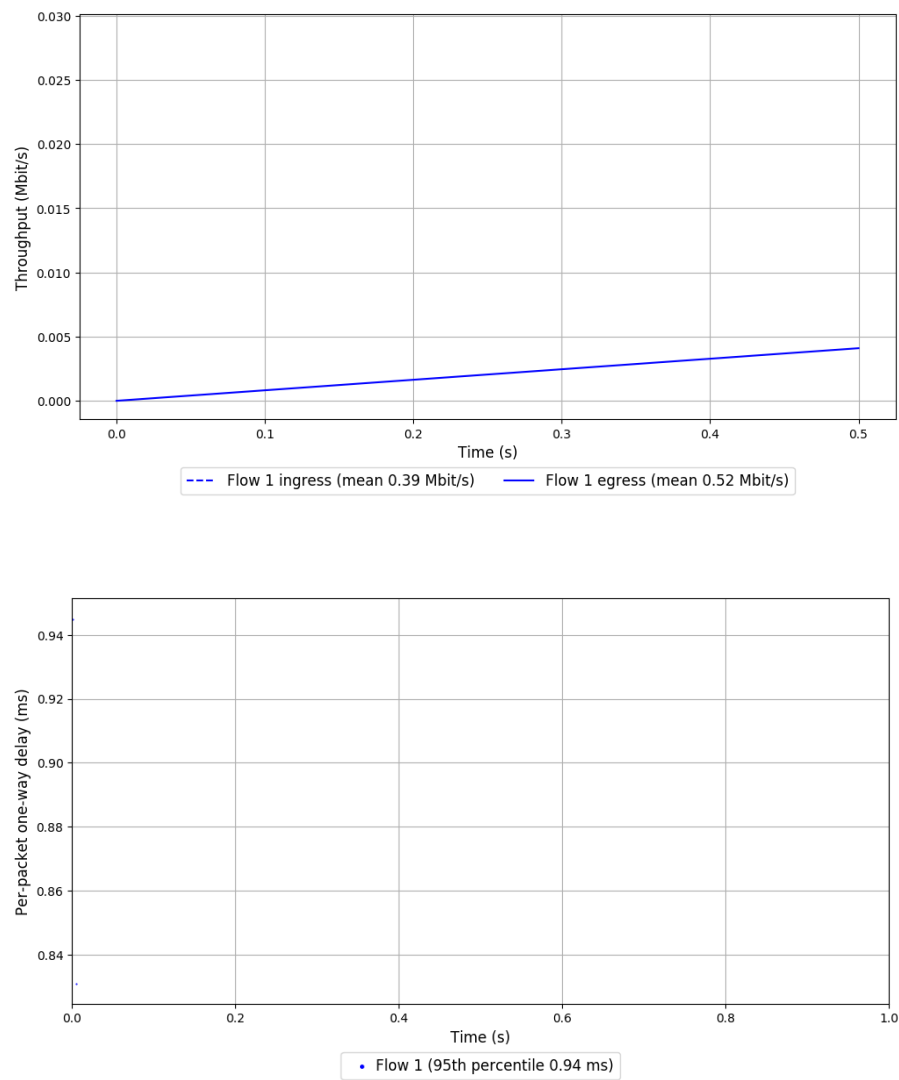
Start at: 2019-07-11 22:51:29

End at: 2019-07-11 22:51:59

Local clock offset: 0.43 ms

Remote clock offset: -0.272 ms

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

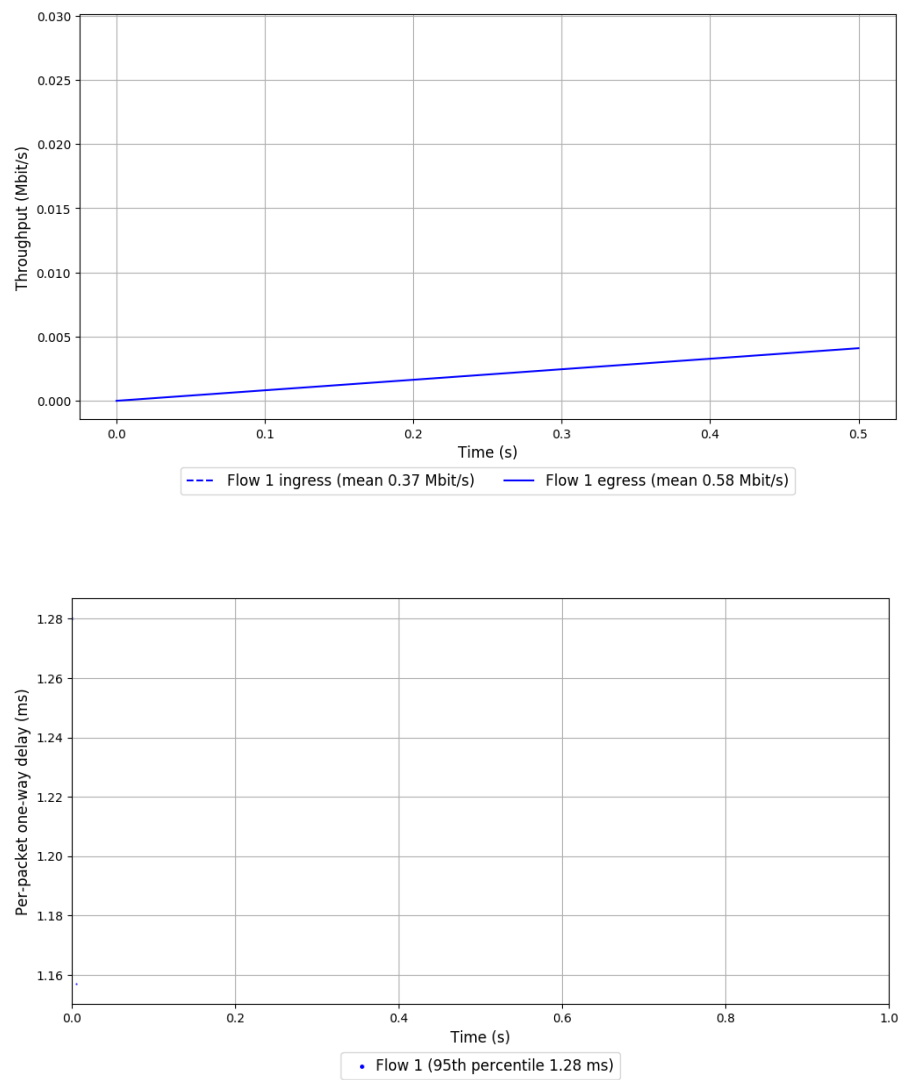
Start at: 2019-07-11 23:18:11

End at: 2019-07-11 23:18:41

Local clock offset: -1.813 ms

Remote clock offset: -0.068 ms

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

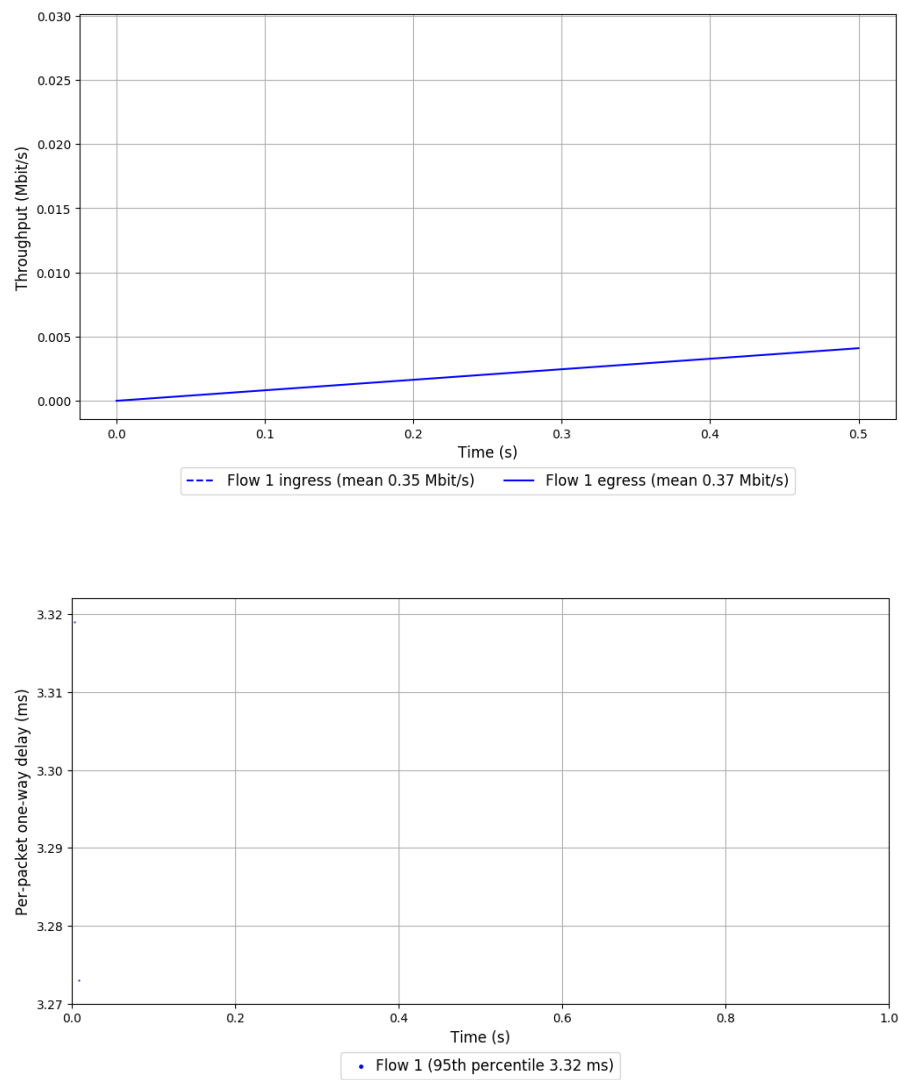
Start at: 2019-07-11 23:44:56

End at: 2019-07-11 23:45:26

Local clock offset: -2.694 ms

Remote clock offset: 0.104 ms

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

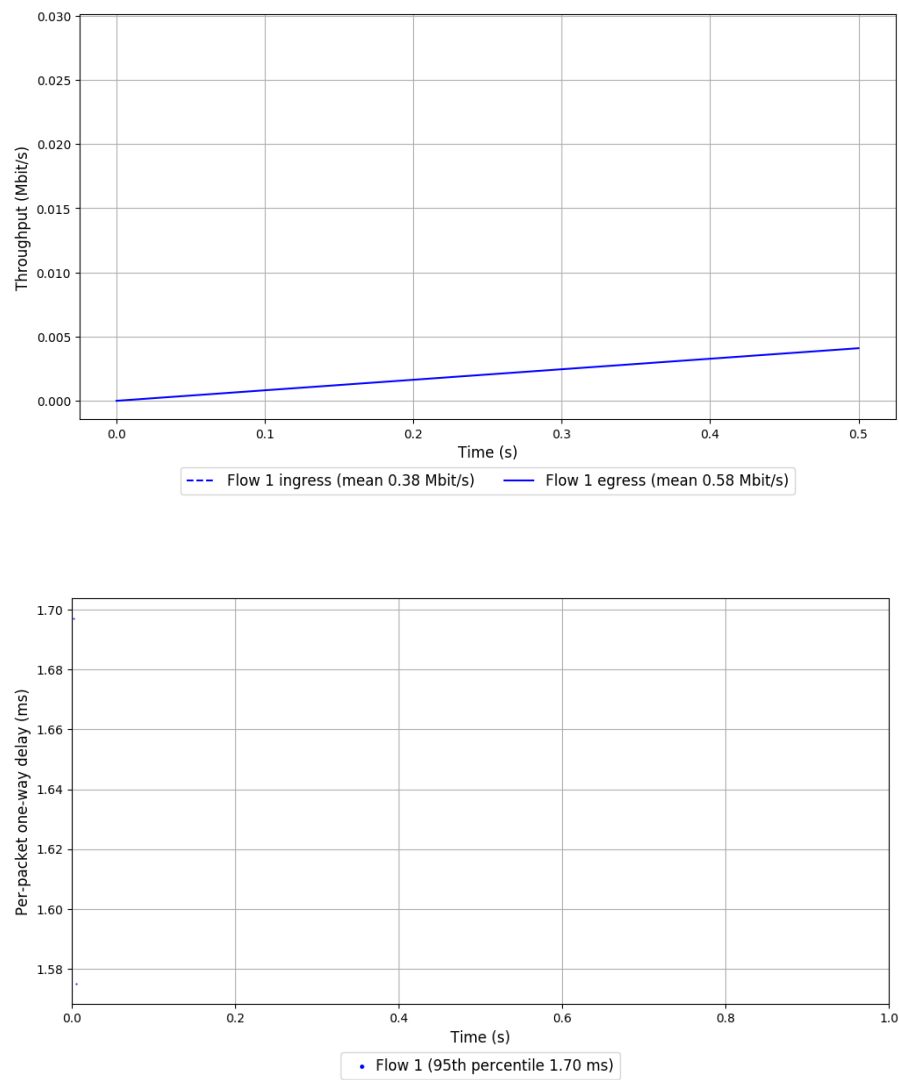
Start at: 2019-07-12 00:11:40

End at: 2019-07-12 00:12:10

Local clock offset: -2.78 ms

Remote clock offset: 0.124 ms

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

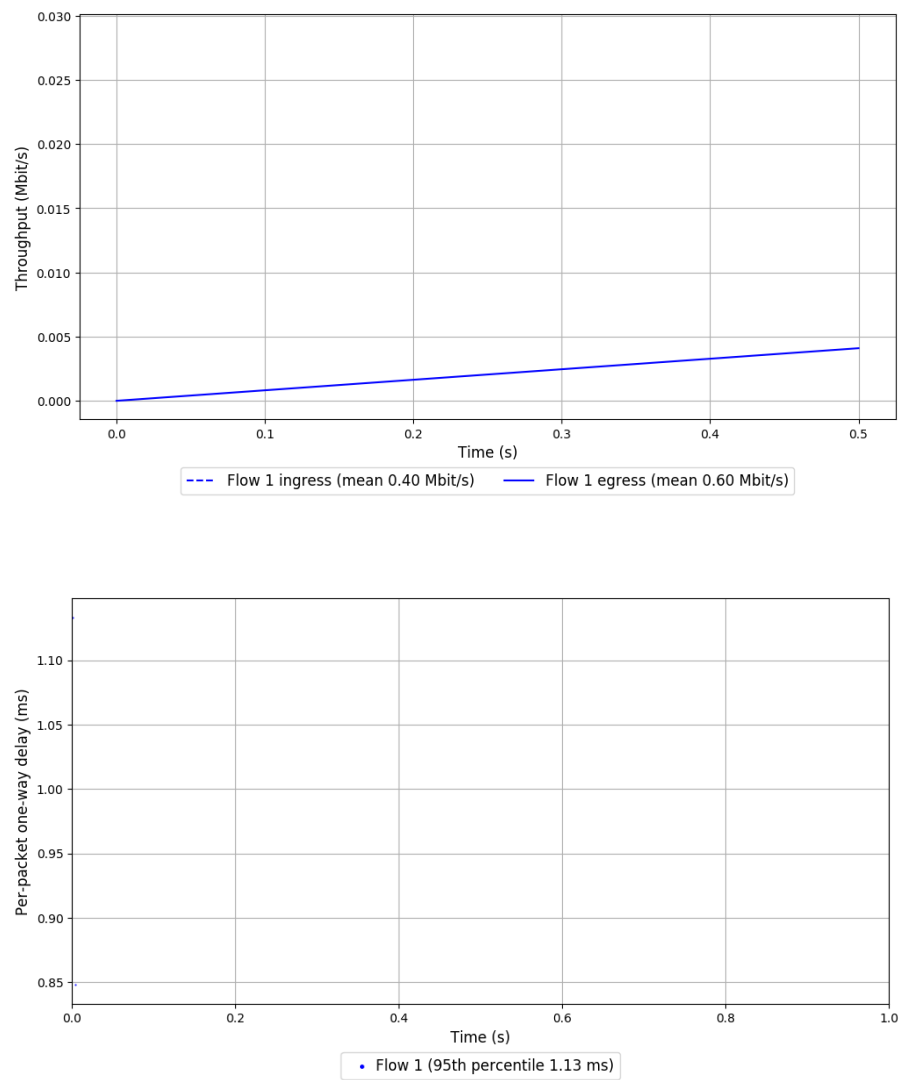
Start at: 2019-07-12 00:38:23

End at: 2019-07-12 00:38:53

Local clock offset: -1.838 ms

Remote clock offset: 0.328 ms

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-07-11 22:52:34

End at: 2019-07-11 22:53:04

Local clock offset: 0.468 ms

Remote clock offset: -0.295 ms

Below is generated by plot.py at 2019-07-12 01:03:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.93 Mbit/s

95th percentile per-packet one-way delay: 2.878 ms

Loss rate: 0.27%

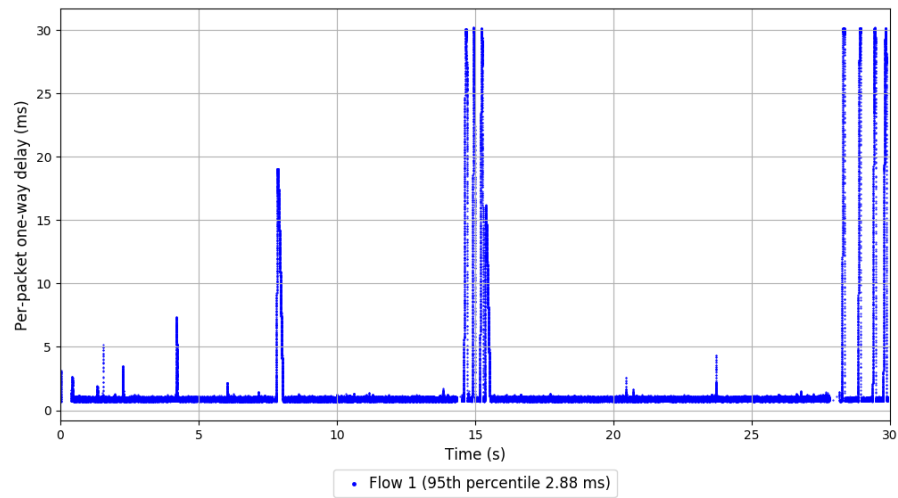
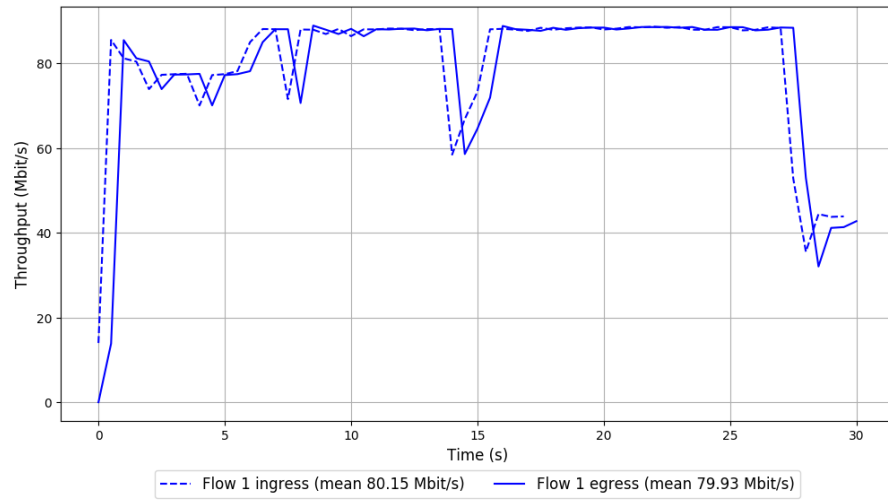
-- Flow 1:

Average throughput: 79.93 Mbit/s

95th percentile per-packet one-way delay: 2.878 ms

Loss rate: 0.27%

Run 1: Report of QUIC Cubic — Data Link

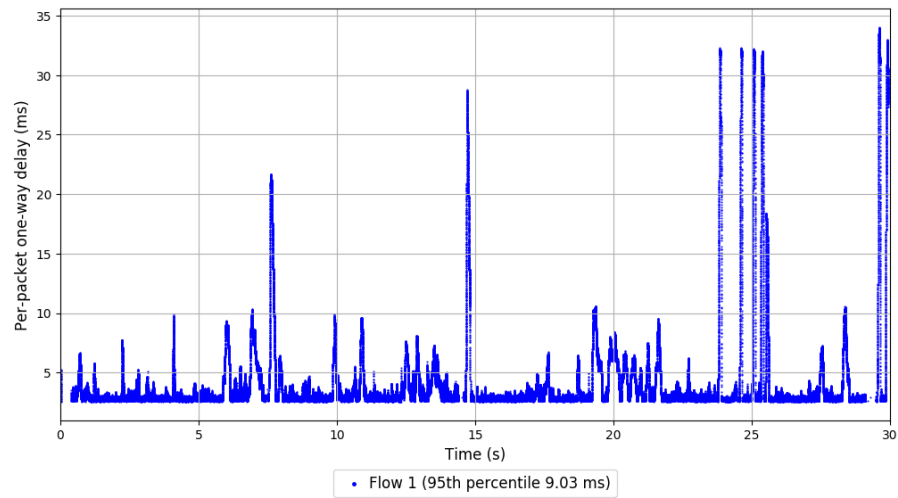
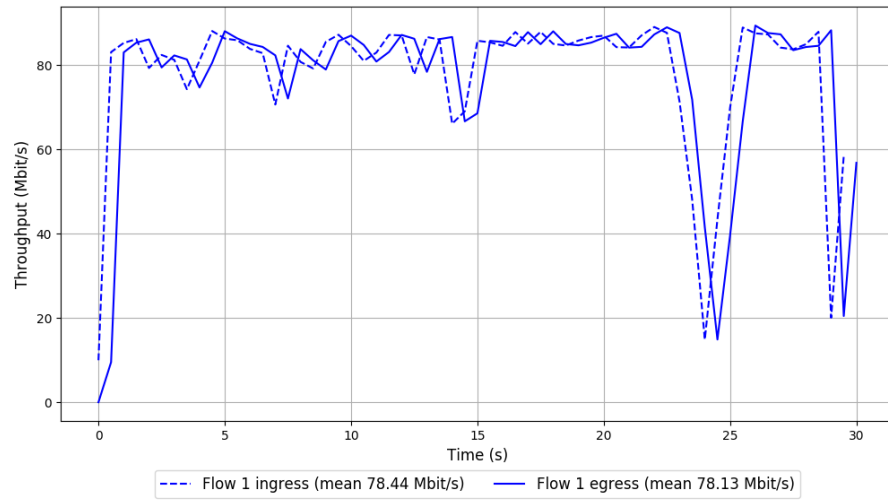


Run 2: Statistics of QUIC Cubic

Start at: 2019-07-11 23:19:15
End at: 2019-07-11 23:19:45
Local clock offset: -1.835 ms
Remote clock offset: -0.054 ms

Below is generated by plot.py at 2019-07-12 01:03:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 78.13 Mbit/s
95th percentile per-packet one-way delay: 9.033 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 78.13 Mbit/s
95th percentile per-packet one-way delay: 9.033 ms
Loss rate: 0.31%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-07-11 23:46:00

End at: 2019-07-11 23:46:30

Local clock offset: -2.128 ms

Remote clock offset: 0.113 ms

Below is generated by plot.py at 2019-07-12 01:04:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.39 Mbit/s

95th percentile per-packet one-way delay: 9.929 ms

Loss rate: 0.30%

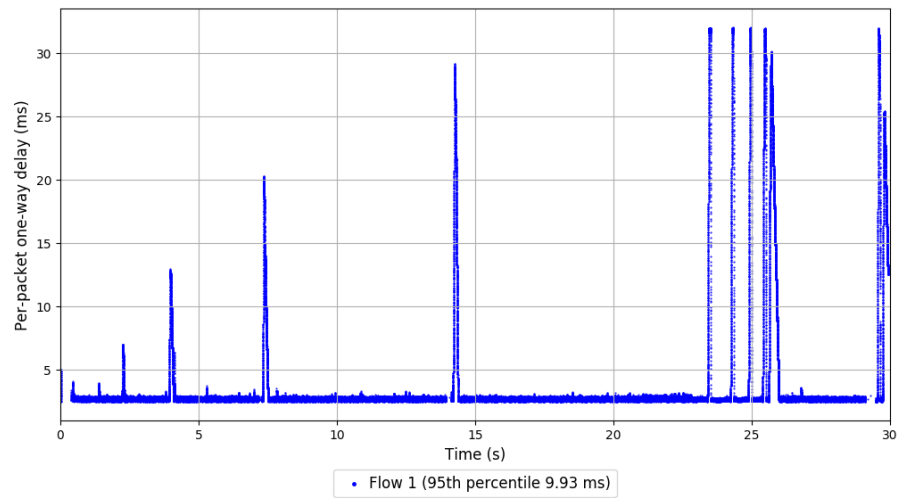
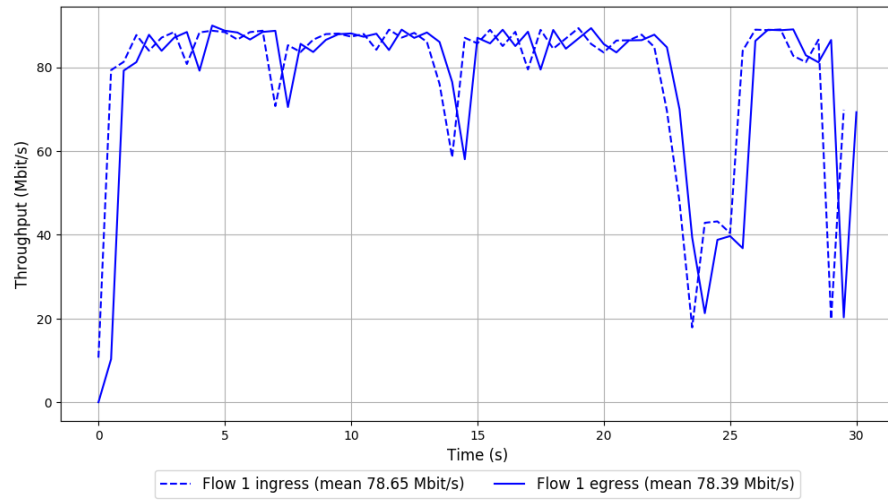
-- Flow 1:

Average throughput: 78.39 Mbit/s

95th percentile per-packet one-way delay: 9.929 ms

Loss rate: 0.30%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-07-12 00:12:44

End at: 2019-07-12 00:13:14

Local clock offset: -2.775 ms

Remote clock offset: 0.264 ms

Below is generated by plot.py at 2019-07-12 01:04:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.28 Mbit/s

95th percentile per-packet one-way delay: 8.215 ms

Loss rate: 0.37%

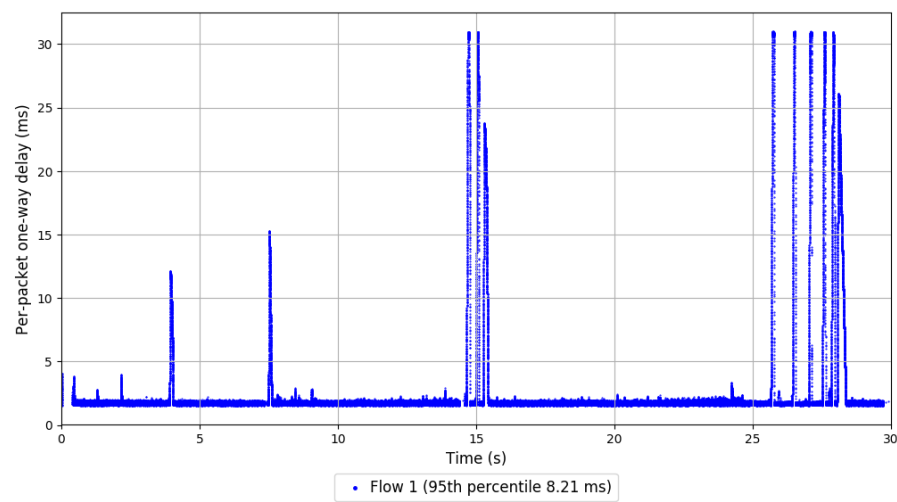
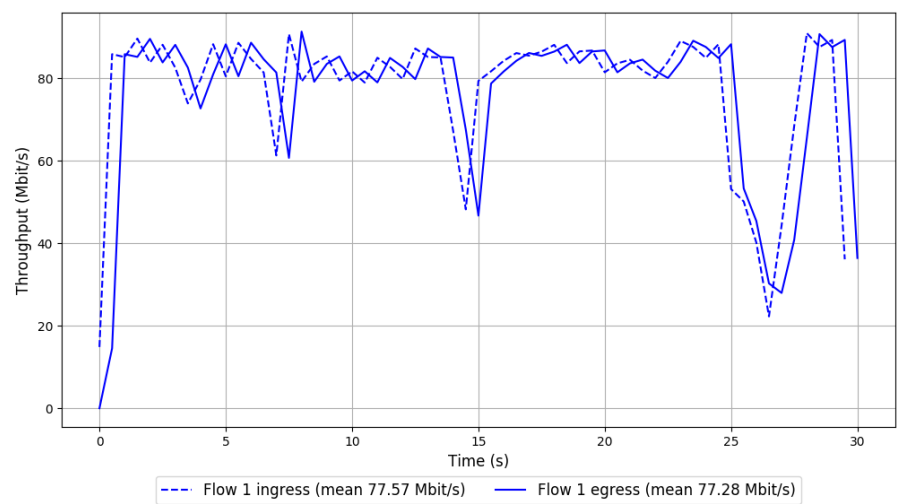
-- Flow 1:

Average throughput: 77.28 Mbit/s

95th percentile per-packet one-way delay: 8.215 ms

Loss rate: 0.37%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-07-12 00:39:28

End at: 2019-07-12 00:39:58

Local clock offset: -2.933 ms

Remote clock offset: 0.194 ms

Below is generated by plot.py at 2019-07-12 01:04:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.27 Mbit/s

95th percentile per-packet one-way delay: 11.932 ms

Loss rate: 0.20%

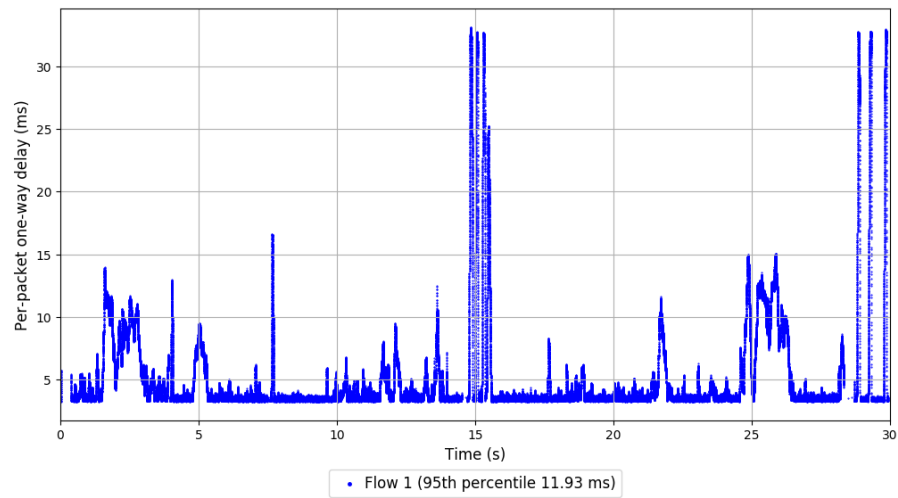
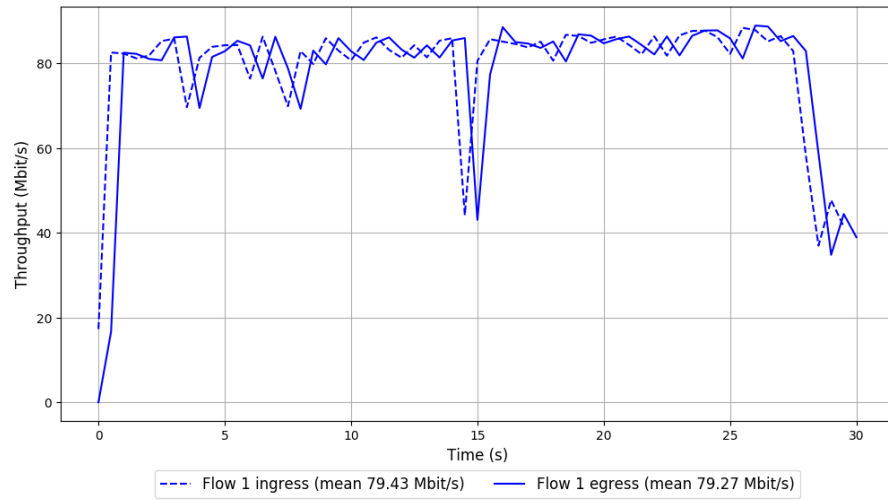
-- Flow 1:

Average throughput: 79.27 Mbit/s

95th percentile per-packet one-way delay: 11.932 ms

Loss rate: 0.20%

Run 5: Report of QUIC Cubic — Data Link

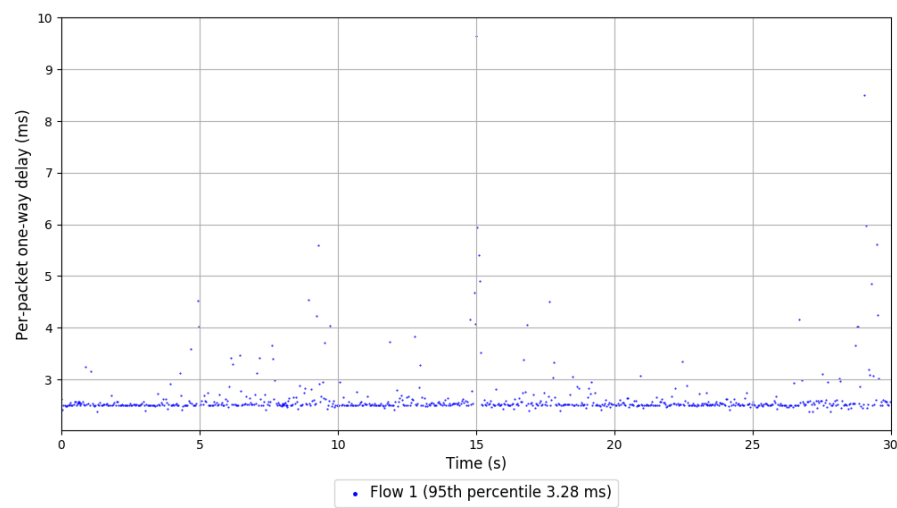
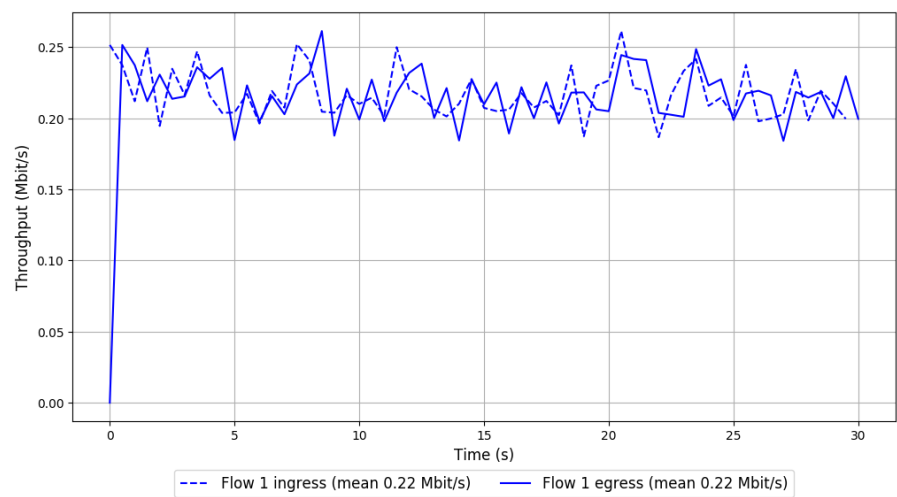


Run 1: Statistics of SCReAM

Start at: 2019-07-11 22:43:43
End at: 2019-07-11 22:44:13
Local clock offset: 0.147 ms
Remote clock offset: -0.243 ms

Below is generated by plot.py at 2019-07-12 01:04:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.276 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.276 ms
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

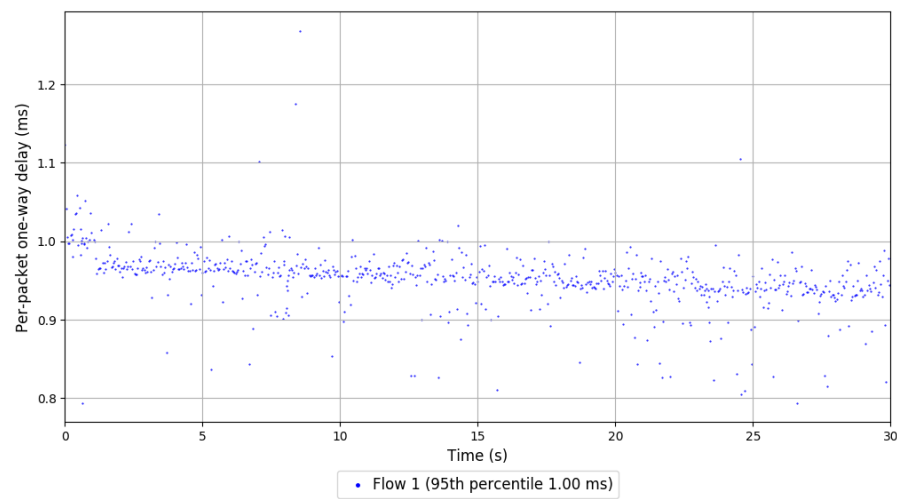
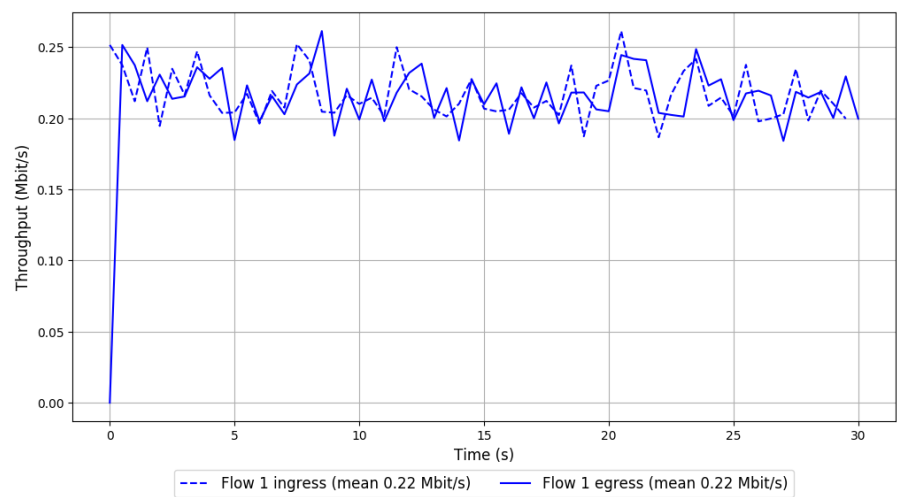


Run 2: Statistics of SReAM

Start at: 2019-07-11 23:10:24
End at: 2019-07-11 23:10:54
Local clock offset: -1.42 ms
Remote clock offset: -0.227 ms

Below is generated by plot.py at 2019-07-12 01:04:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.001 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.001 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

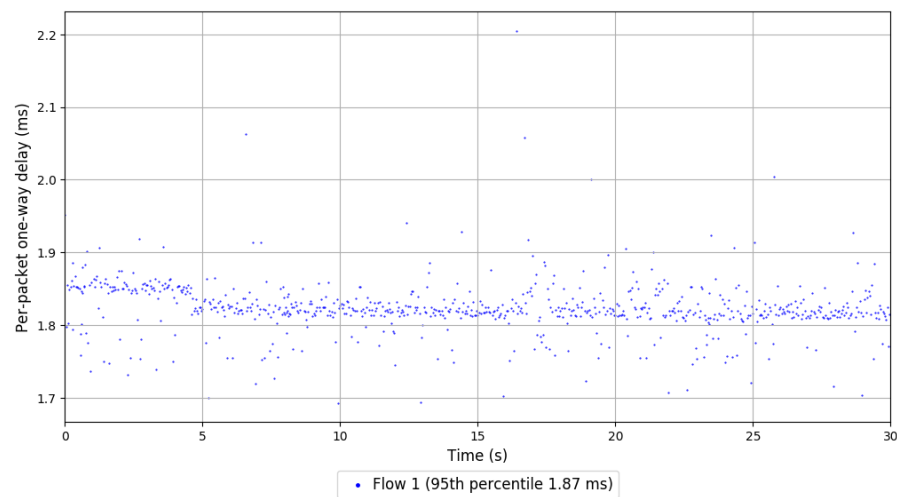
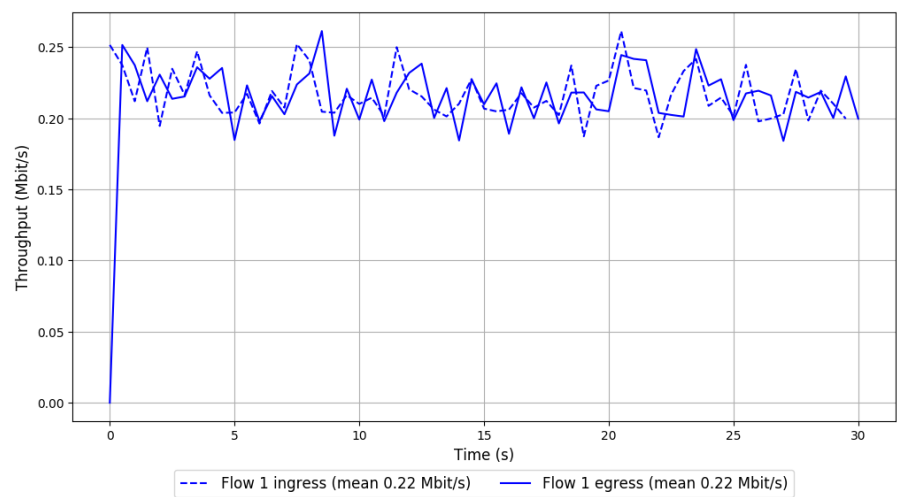


Run 3: Statistics of SCReAM

Start at: 2019-07-11 23:37:06
End at: 2019-07-11 23:37:36
Local clock offset: -2.866 ms
Remote clock offset: -0.014 ms

Below is generated by plot.py at 2019-07-12 01:04:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.872 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.872 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-07-12 00:03:51

End at: 2019-07-12 00:04:21

Local clock offset: -1.972 ms

Remote clock offset: 0.221 ms

Below is generated by plot.py at 2019-07-12 01:04:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 7.034 ms

Loss rate: 0.00%

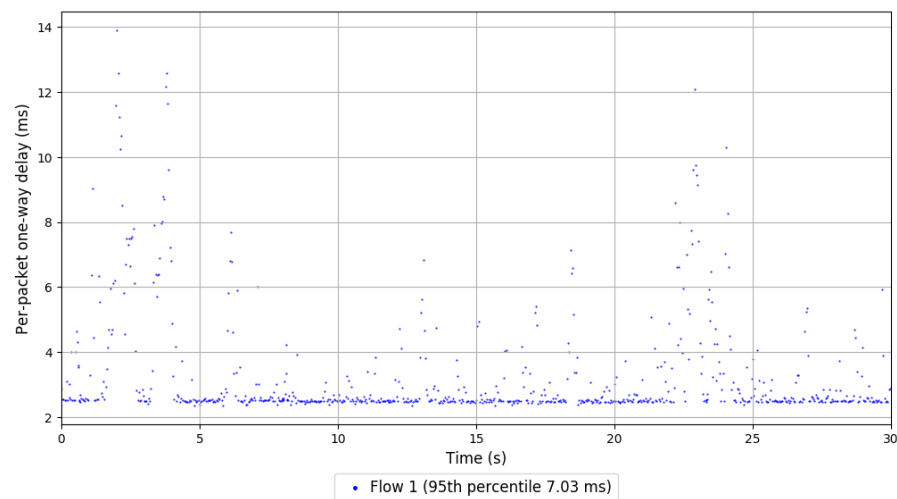
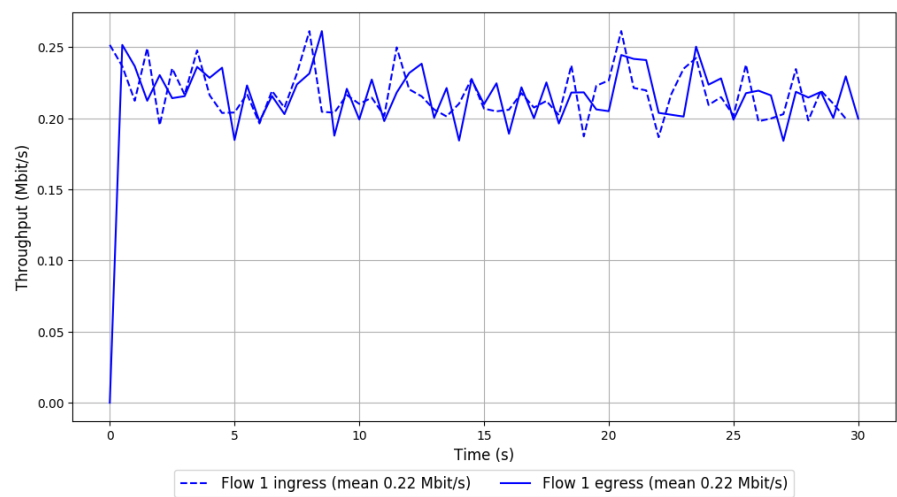
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 7.034 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-07-12 00:30:37

End at: 2019-07-12 00:31:07

Local clock offset: -2.732 ms

Remote clock offset: 0.249 ms

Below is generated by plot.py at 2019-07-12 01:04:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.701 ms

Loss rate: 0.00%

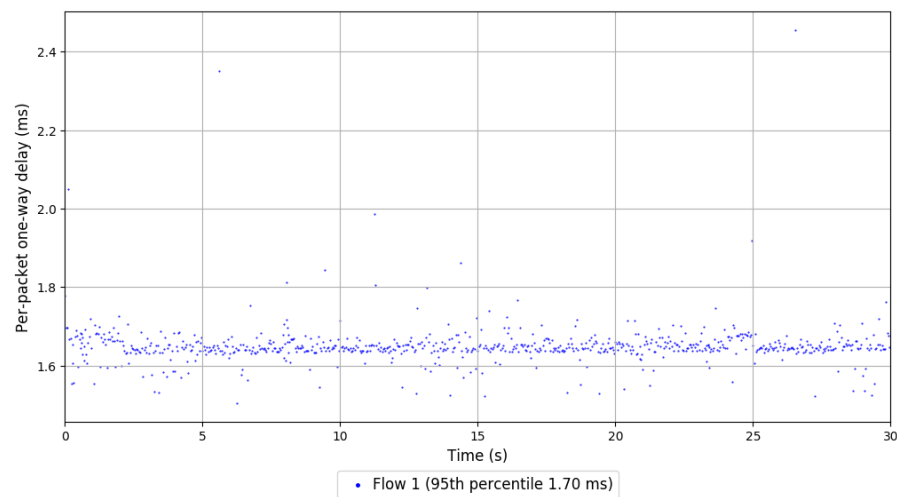
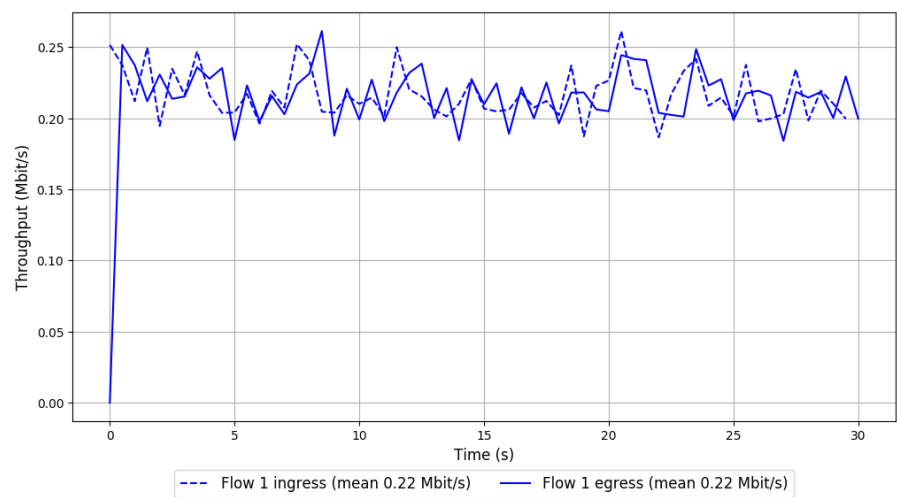
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.701 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

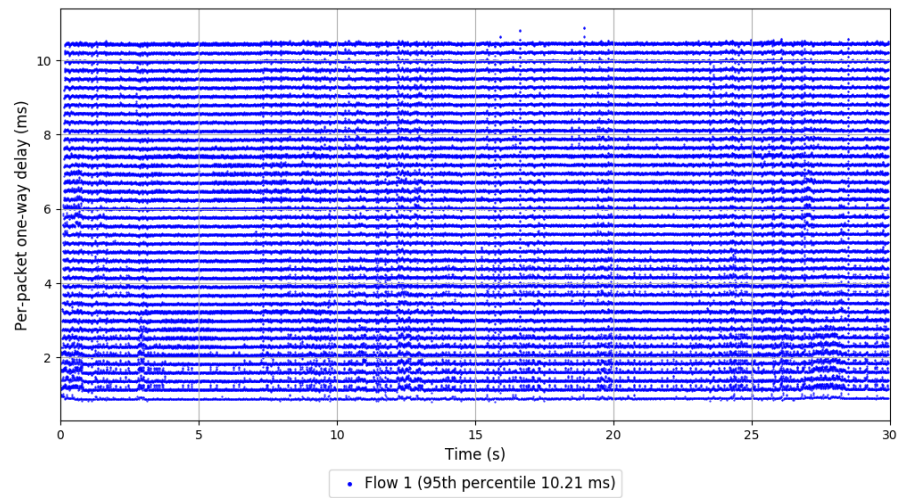
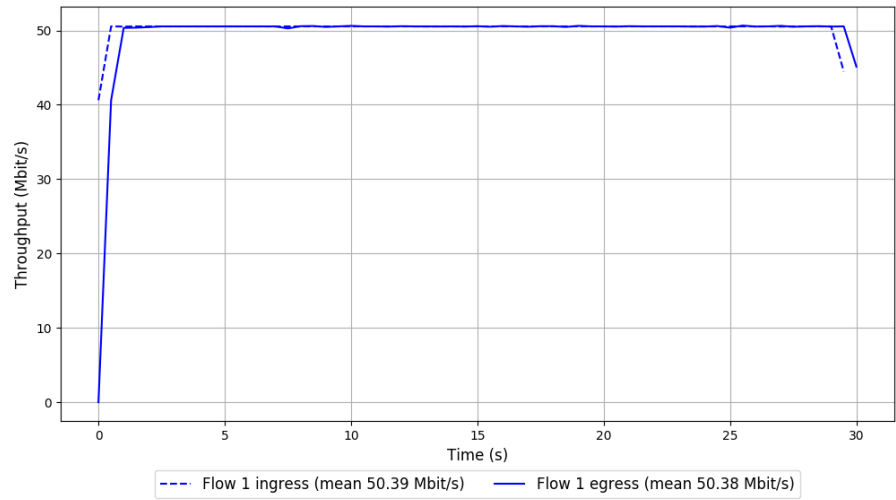


Run 1: Statistics of Sprout

Start at: 2019-07-11 22:54:46
End at: 2019-07-11 22:55:16
Local clock offset: 0.494 ms
Remote clock offset: -0.252 ms

Below is generated by plot.py at 2019-07-12 01:04:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.38 Mbit/s
95th percentile per-packet one-way delay: 10.207 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.38 Mbit/s
95th percentile per-packet one-way delay: 10.207 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

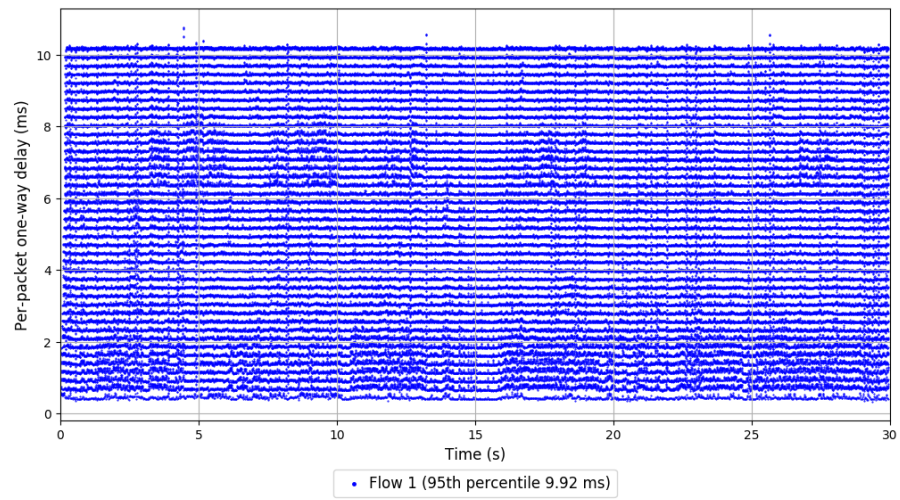
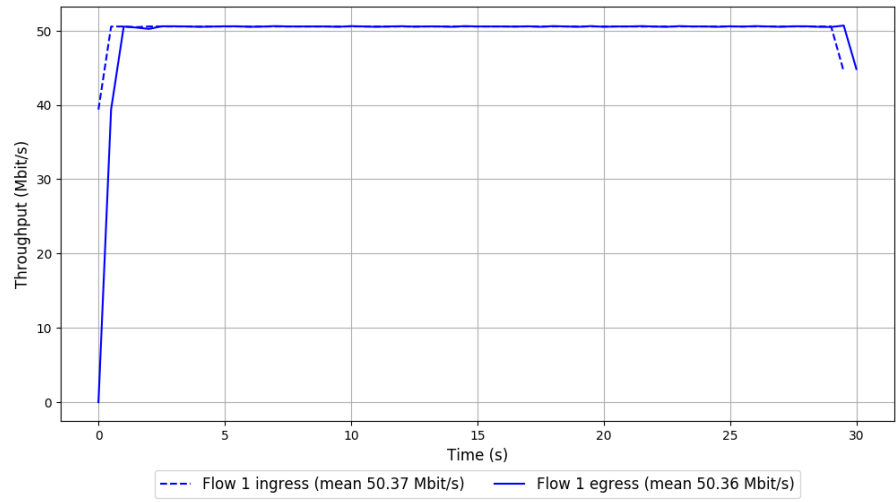


Run 2: Statistics of Sprout

Start at: 2019-07-11 23:21:28
End at: 2019-07-11 23:21:58
Local clock offset: -1.256 ms
Remote clock offset: -0.126 ms

Below is generated by plot.py at 2019-07-12 01:04:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.36 Mbit/s
95th percentile per-packet one-way delay: 9.921 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.36 Mbit/s
95th percentile per-packet one-way delay: 9.921 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

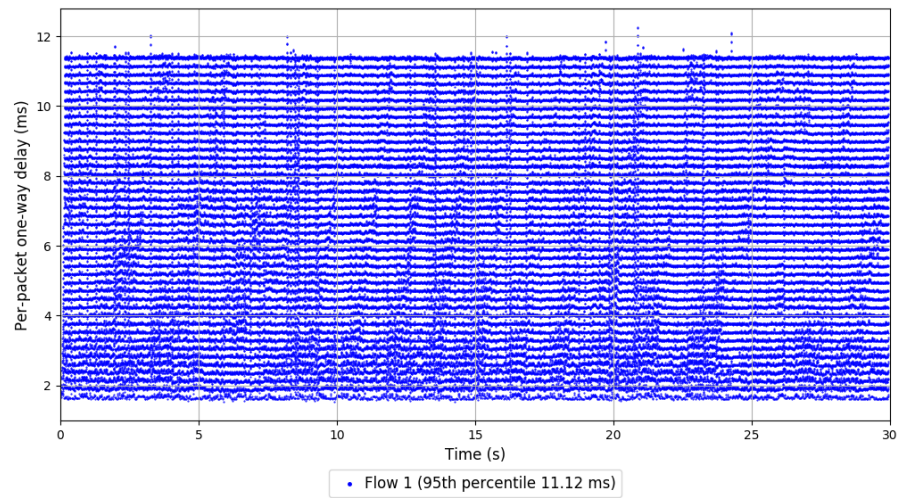
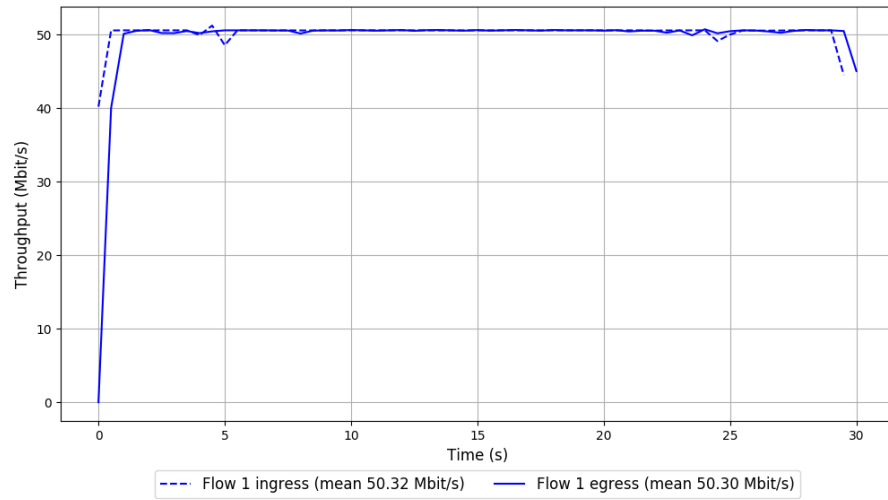


Run 3: Statistics of Sprout

Start at: 2019-07-11 23:48:13
End at: 2019-07-11 23:48:43
Local clock offset: -2.675 ms
Remote clock offset: 0.139 ms

Below is generated by plot.py at 2019-07-12 01:04:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.30 Mbit/s
95th percentile per-packet one-way delay: 11.121 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.30 Mbit/s
95th percentile per-packet one-way delay: 11.121 ms
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

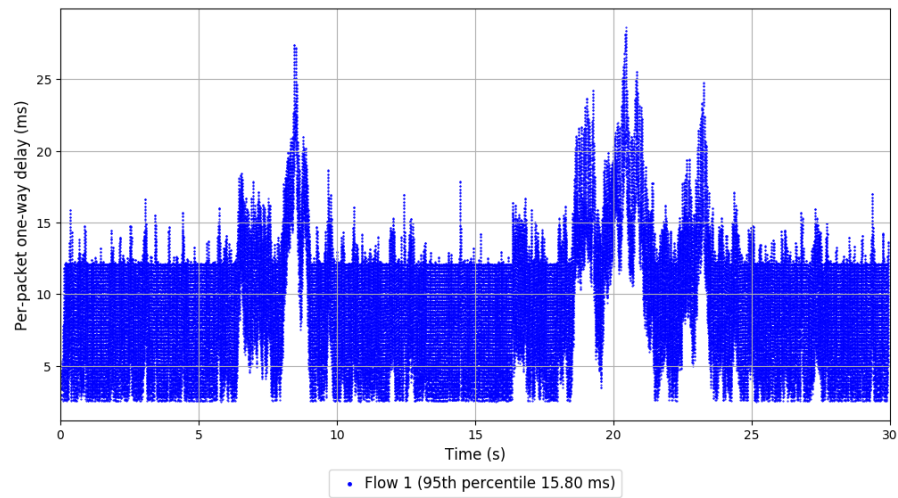
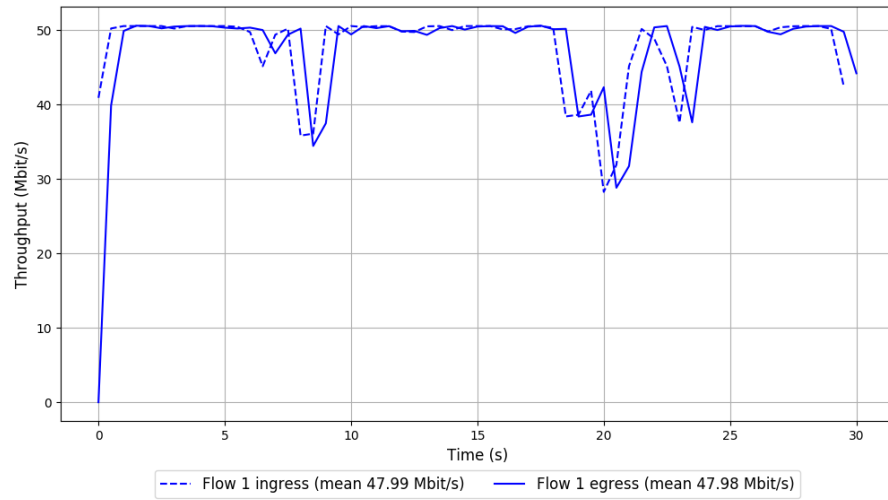


Run 4: Statistics of Sprout

Start at: 2019-07-12 00:14:57
End at: 2019-07-12 00:15:27
Local clock offset: -2.218 ms
Remote clock offset: 0.185 ms

Below is generated by plot.py at 2019-07-12 01:04:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 47.98 Mbit/s
95th percentile per-packet one-way delay: 15.803 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 47.98 Mbit/s
95th percentile per-packet one-way delay: 15.803 ms
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-07-12 00:41:40

End at: 2019-07-12 00:42:10

Local clock offset: -1.812 ms

Remote clock offset: 0.247 ms

Below is generated by plot.py at 2019-07-12 01:04:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.22 Mbit/s

95th percentile per-packet one-way delay: 10.233 ms

Loss rate: 0.00%

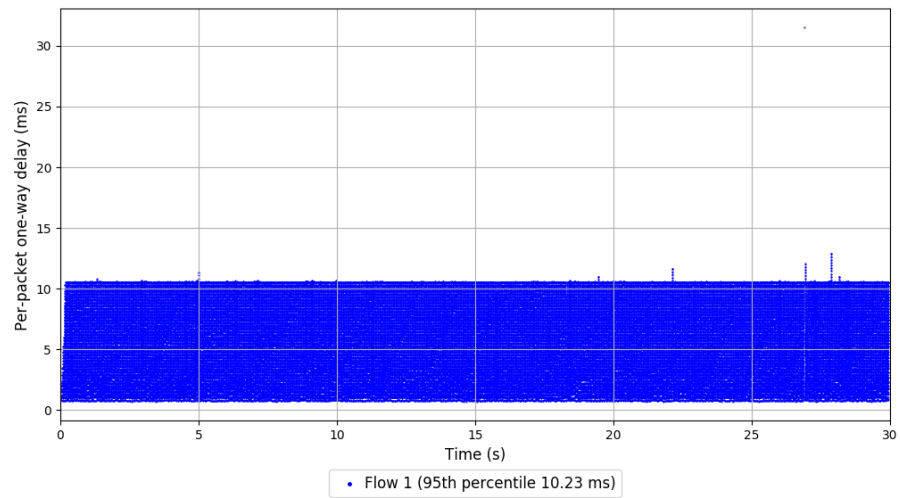
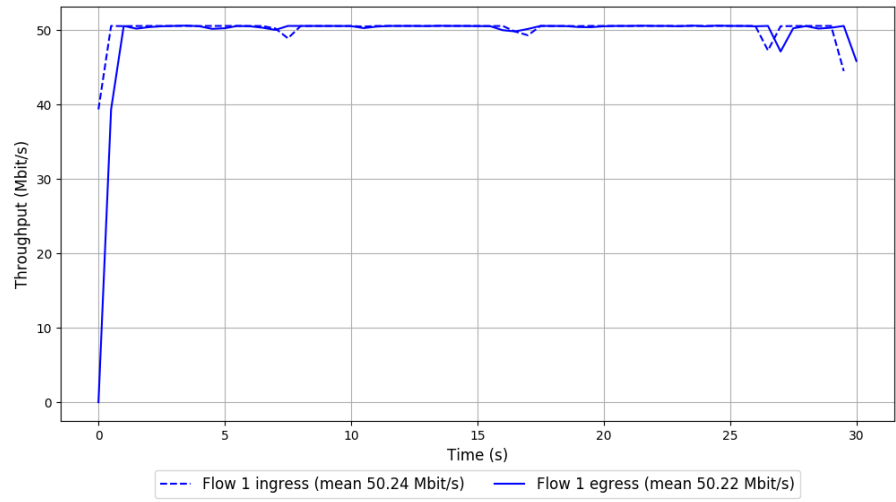
-- Flow 1:

Average throughput: 50.22 Mbit/s

95th percentile per-packet one-way delay: 10.233 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

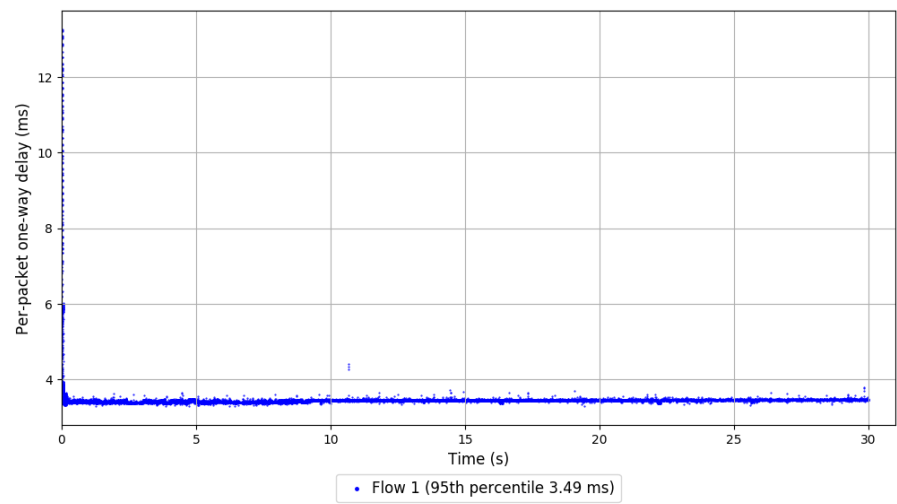
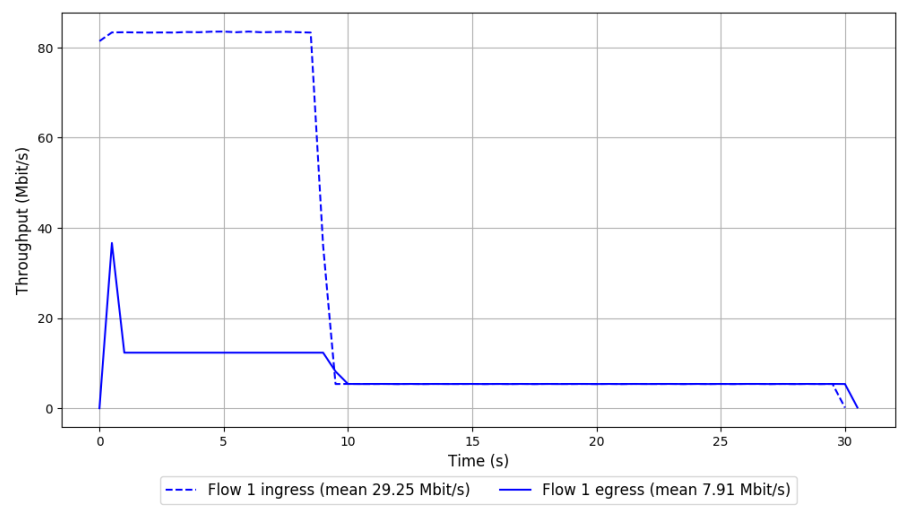


Run 1: Statistics of TaoVA-100x

Start at: 2019-07-11 22:53:41
End at: 2019-07-11 22:54:11
Local clock offset: -0.497 ms
Remote clock offset: -0.263 ms

Below is generated by plot.py at 2019-07-12 01:04:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.91 Mbit/s
95th percentile per-packet one-way delay: 3.487 ms
Loss rate: 72.95%
-- Flow 1:
Average throughput: 7.91 Mbit/s
95th percentile per-packet one-way delay: 3.487 ms
Loss rate: 72.95%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-07-11 23:20:23

End at: 2019-07-11 23:20:53

Local clock offset: -2.361 ms

Remote clock offset: -0.123 ms

Below is generated by plot.py at 2019-07-12 01:04:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.97 Mbit/s

95th percentile per-packet one-way delay: 9.379 ms

Loss rate: 79.08%

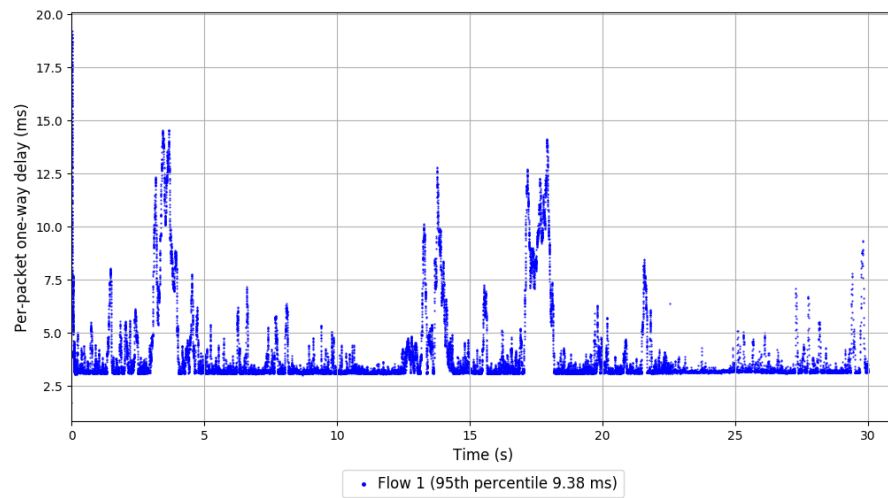
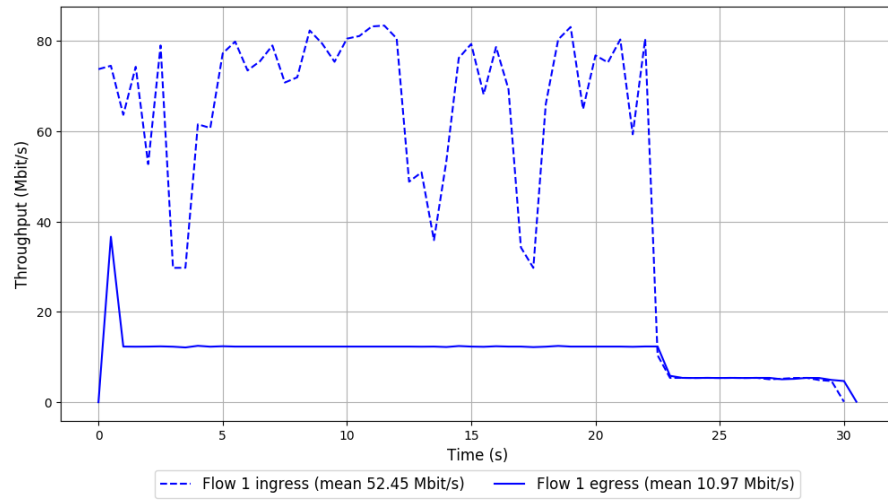
-- Flow 1:

Average throughput: 10.97 Mbit/s

95th percentile per-packet one-way delay: 9.379 ms

Loss rate: 79.08%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-07-11 23:47:08

End at: 2019-07-11 23:47:38

Local clock offset: -2.668 ms

Remote clock offset: 0.077 ms

Below is generated by plot.py at 2019-07-12 01:04:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.06 Mbit/s

95th percentile per-packet one-way delay: 3.224 ms

Loss rate: 81.14%

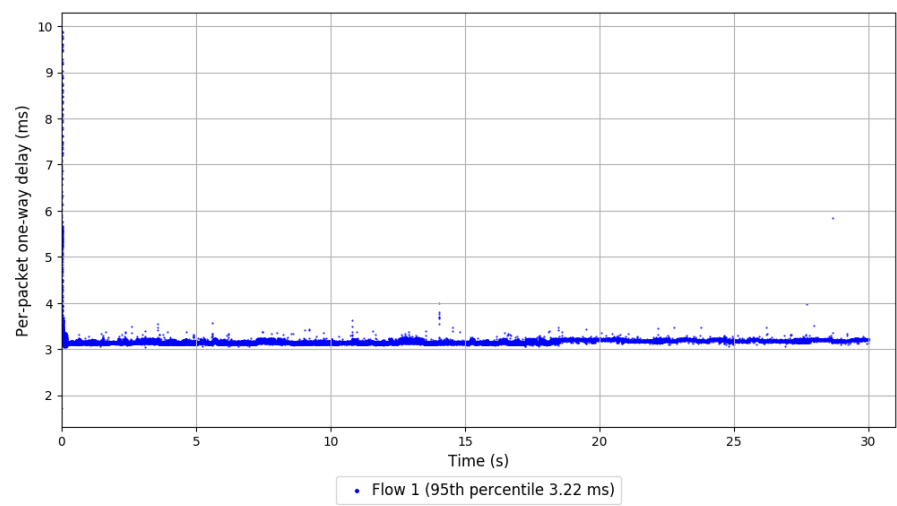
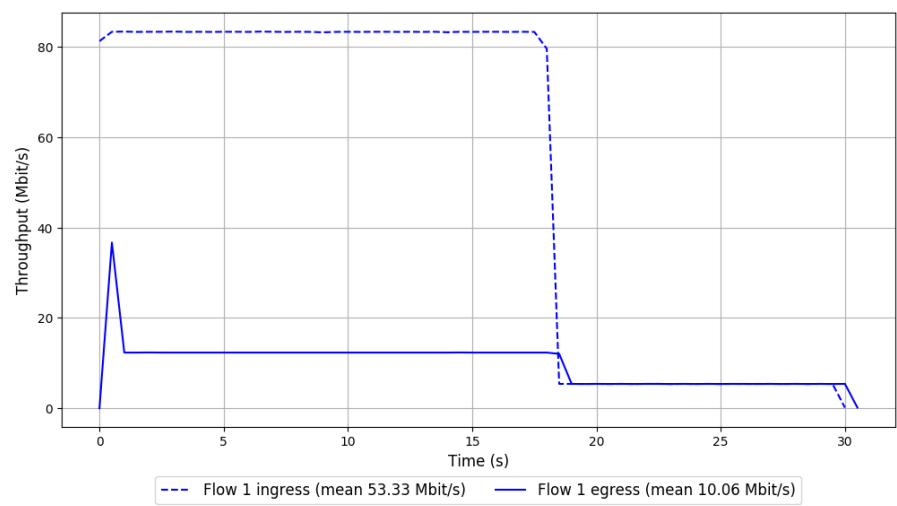
-- Flow 1:

Average throughput: 10.06 Mbit/s

95th percentile per-packet one-way delay: 3.224 ms

Loss rate: 81.14%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-07-12 00:13:52

End at: 2019-07-12 00:14:22

Local clock offset: -2.22 ms

Remote clock offset: 0.223 ms

Below is generated by plot.py at 2019-07-12 01:04:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.07 Mbit/s

95th percentile per-packet one-way delay: 1.149 ms

Loss rate: 81.12%

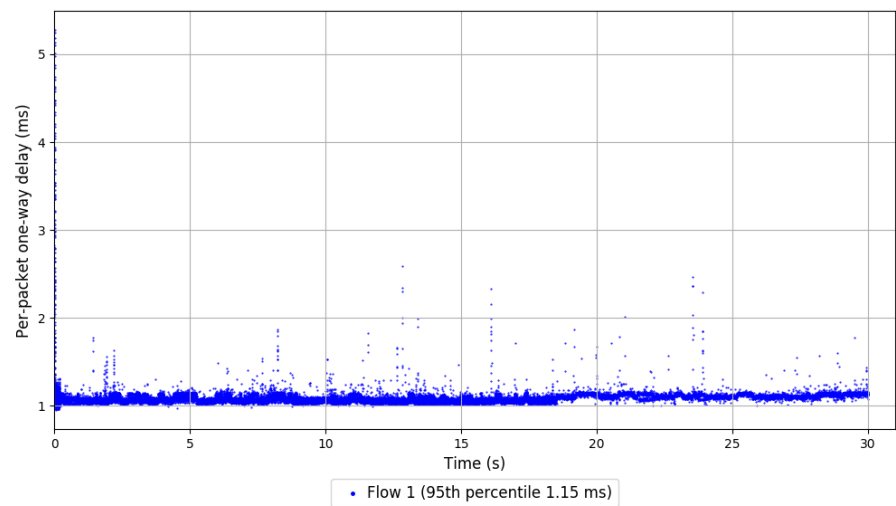
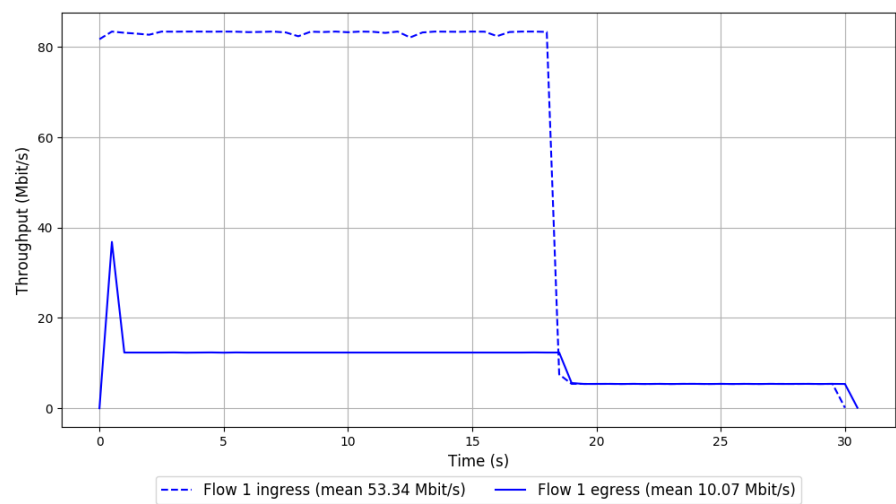
-- Flow 1:

Average throughput: 10.07 Mbit/s

95th percentile per-packet one-way delay: 1.149 ms

Loss rate: 81.12%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-07-12 00:40:35

End at: 2019-07-12 00:41:05

Local clock offset: -2.696 ms

Remote clock offset: 0.291 ms

Below is generated by plot.py at 2019-07-12 01:04:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 1.780 ms

Loss rate: 72.95%

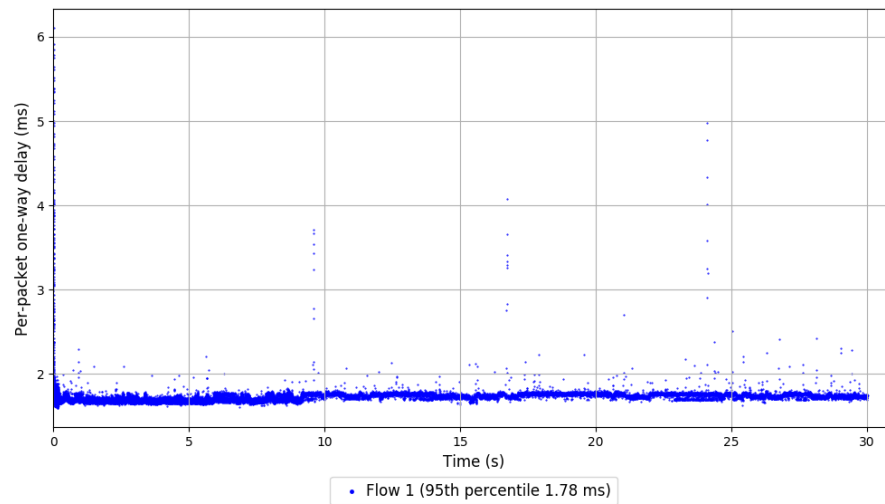
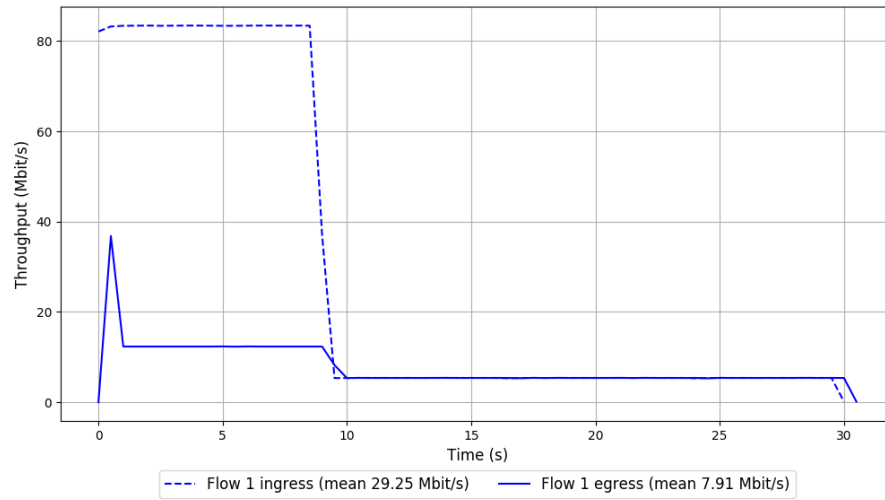
-- Flow 1:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 1.780 ms

Loss rate: 72.95%

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

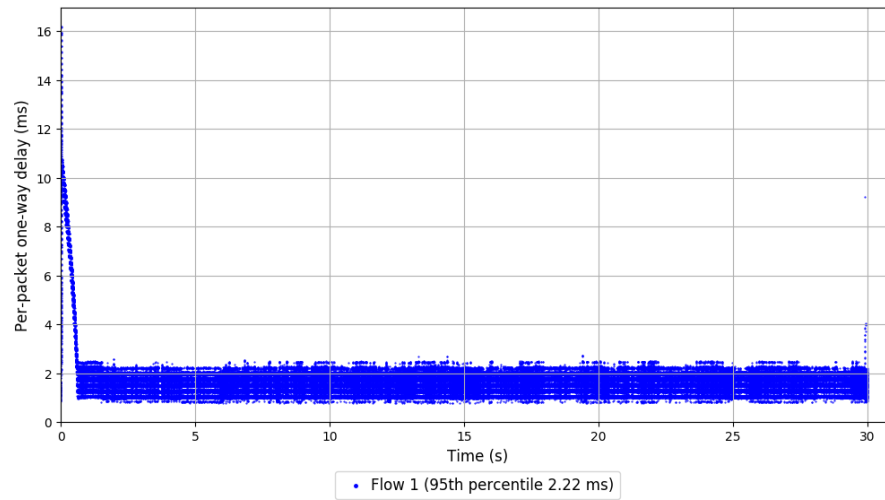
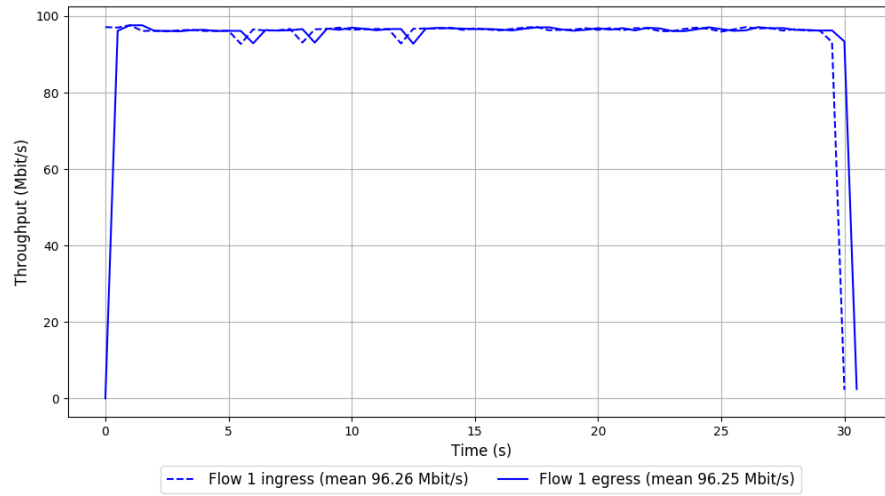


Run 1: Statistics of TCP Vegas

Start at: 2019-07-11 22:42:35
End at: 2019-07-11 22:43:05
Local clock offset: 0.091 ms
Remote clock offset: -0.269 ms

Below is generated by plot.py at 2019-07-12 01:05:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.25 Mbit/s
95th percentile per-packet one-way delay: 2.221 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.25 Mbit/s
95th percentile per-packet one-way delay: 2.221 ms
Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link

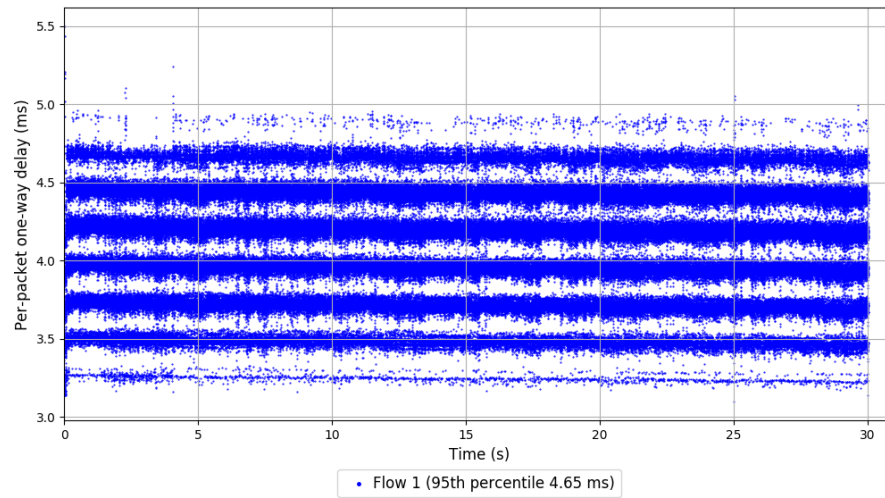
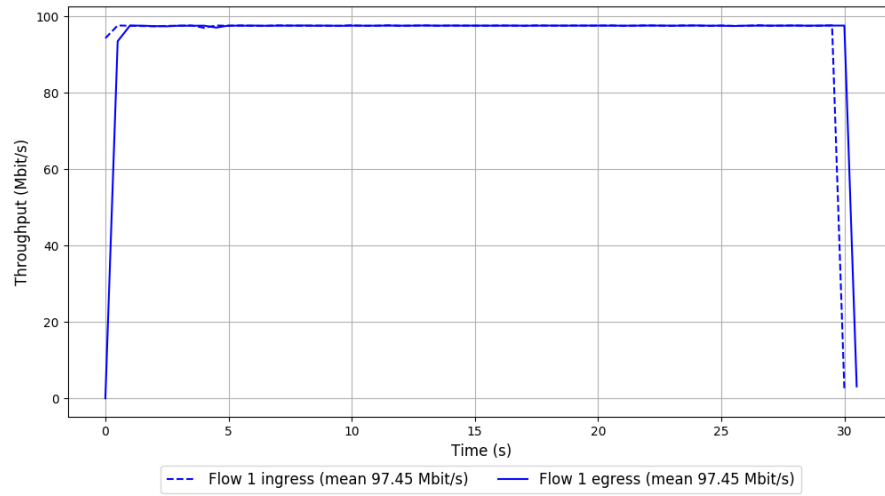


Run 2: Statistics of TCP Vegas

Start at: 2019-07-11 23:09:16
End at: 2019-07-11 23:09:46
Local clock offset: -1.894 ms
Remote clock offset: -0.104 ms

Below is generated by plot.py at 2019-07-12 01:05:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.45 Mbit/s
95th percentile per-packet one-way delay: 4.653 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.45 Mbit/s
95th percentile per-packet one-way delay: 4.653 ms
Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link

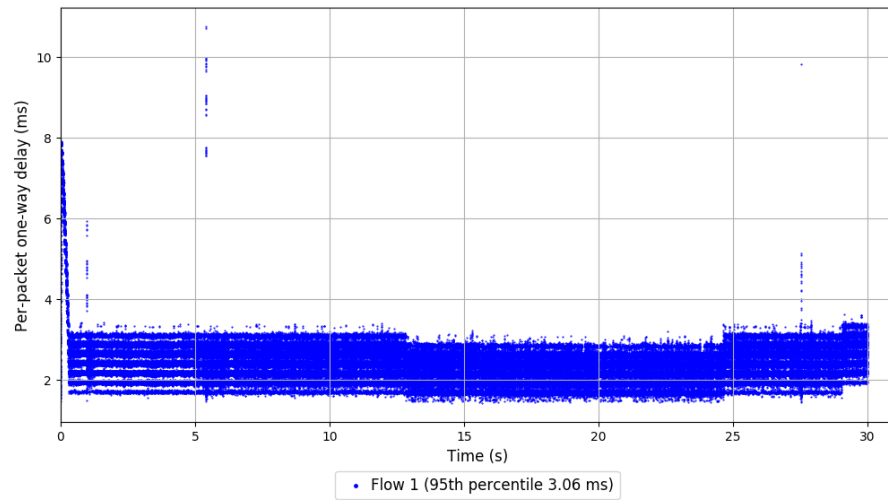
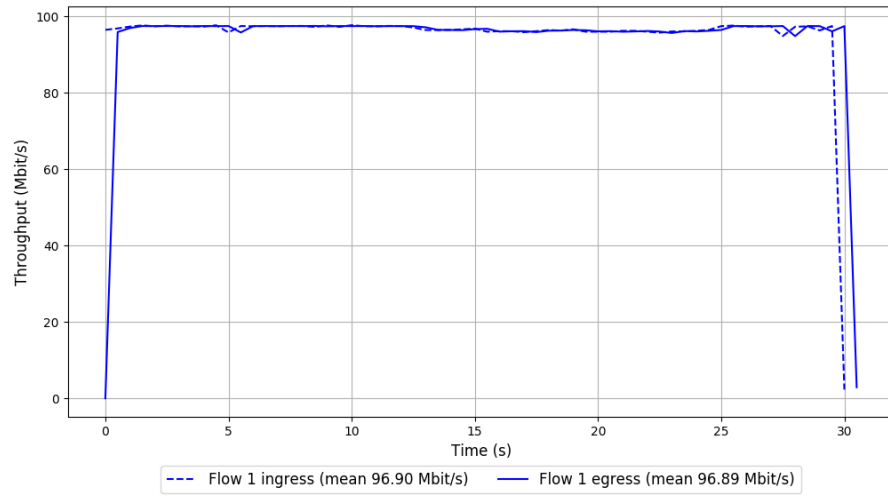


Run 3: Statistics of TCP Vegas

Start at: 2019-07-11 23:35:58
End at: 2019-07-11 23:36:28
Local clock offset: -2.671 ms
Remote clock offset: -0.076 ms

Below is generated by plot.py at 2019-07-12 01:05:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.89 Mbit/s
95th percentile per-packet one-way delay: 3.056 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.89 Mbit/s
95th percentile per-packet one-way delay: 3.056 ms
Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-07-12 00:02:43

End at: 2019-07-12 00:03:13

Local clock offset: -1.988 ms

Remote clock offset: 0.219 ms

Below is generated by plot.py at 2019-07-12 01:05:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.55 Mbit/s

95th percentile per-packet one-way delay: 2.268 ms

Loss rate: 0.00%

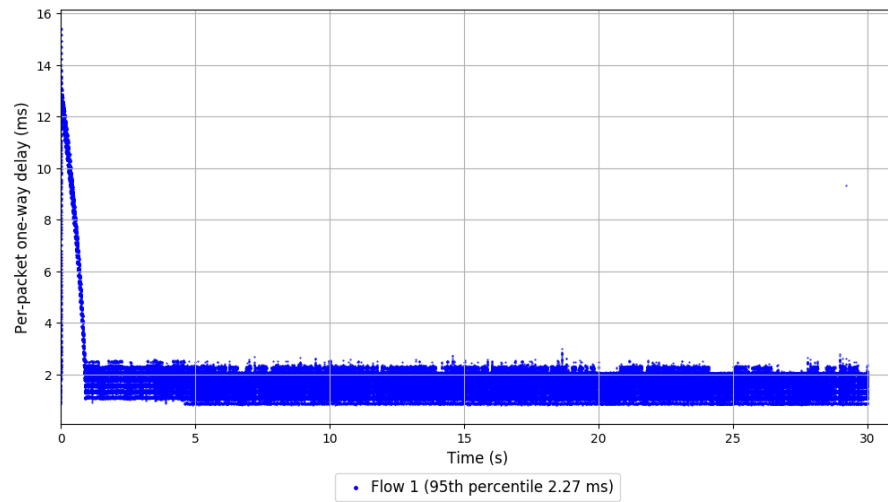
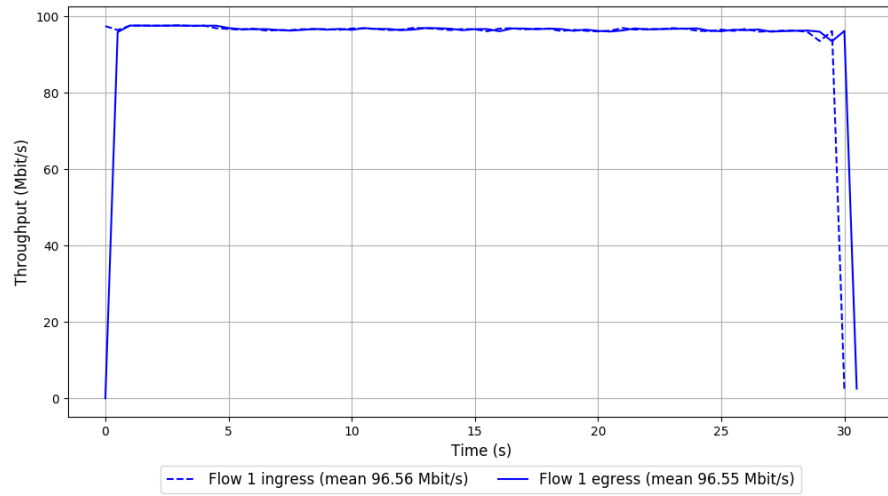
-- Flow 1:

Average throughput: 96.55 Mbit/s

95th percentile per-packet one-way delay: 2.268 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-07-12 00:29:29

End at: 2019-07-12 00:29:59

Local clock offset: -2.807 ms

Remote clock offset: 0.183 ms

Below is generated by plot.py at 2019-07-12 01:05:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.86 Mbit/s

95th percentile per-packet one-way delay: 7.815 ms

Loss rate: 0.00%

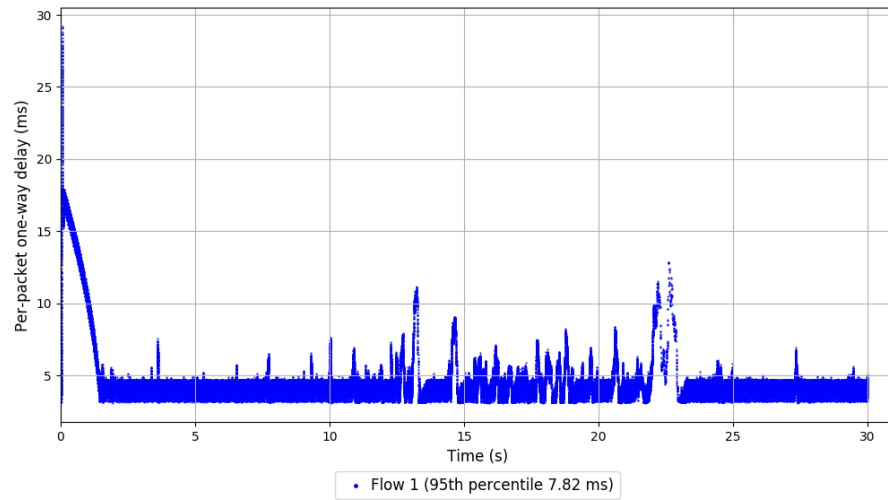
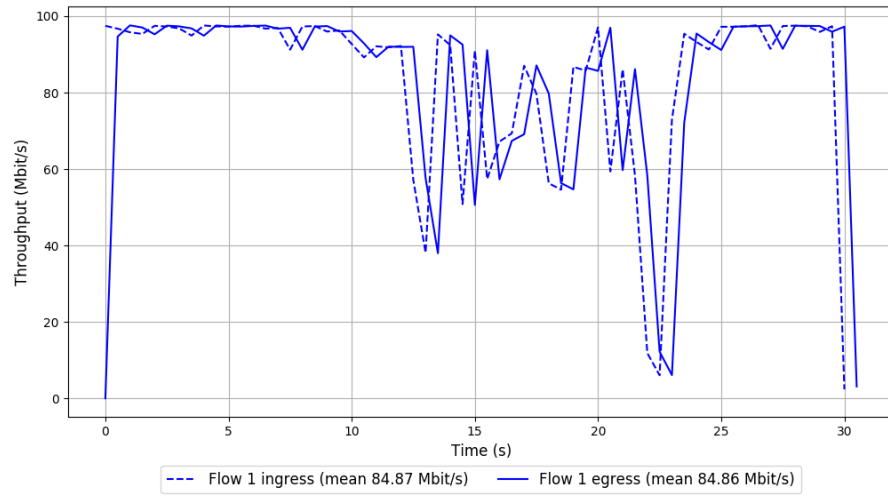
-- Flow 1:

Average throughput: 84.86 Mbit/s

95th percentile per-packet one-way delay: 7.815 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link

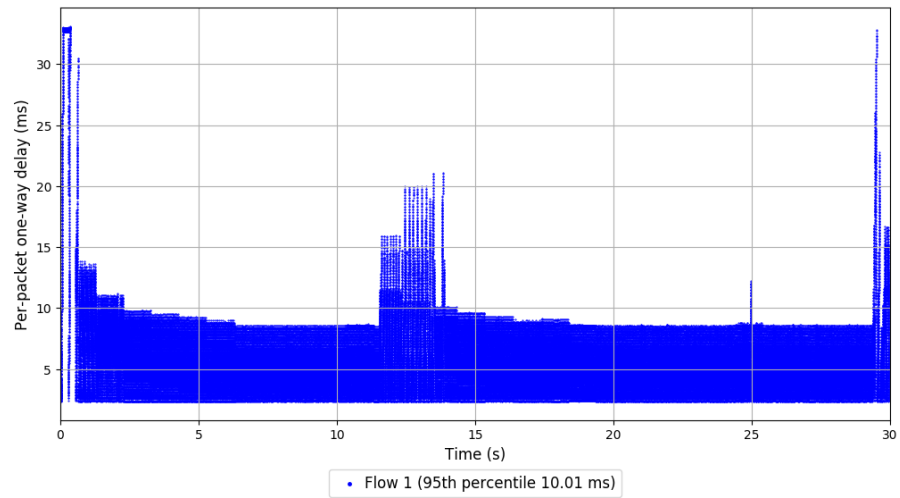
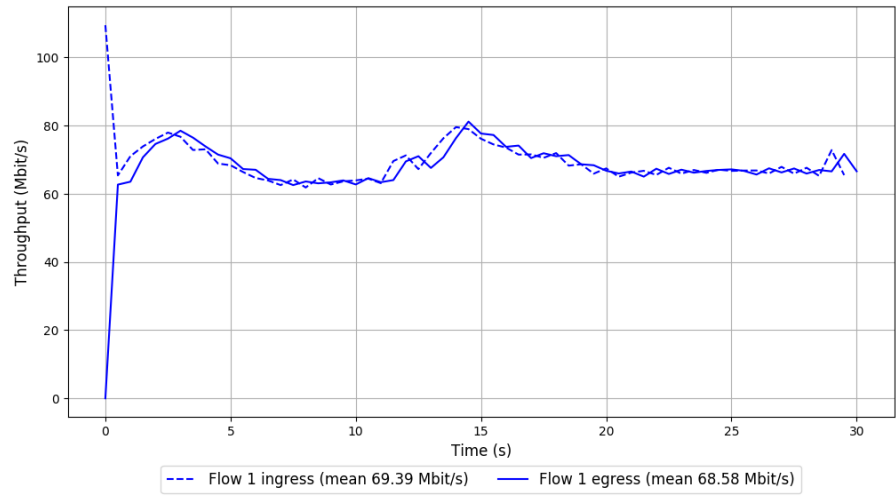


Run 1: Statistics of Verus

Start at: 2019-07-11 22:50:21
End at: 2019-07-11 22:50:51
Local clock offset: 0.364 ms
Remote clock offset: -0.228 ms

Below is generated by plot.py at 2019-07-12 01:05:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 68.58 Mbit/s
95th percentile per-packet one-way delay: 10.007 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 68.58 Mbit/s
95th percentile per-packet one-way delay: 10.007 ms
Loss rate: 1.12%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-07-11 23:17:04

End at: 2019-07-11 23:17:34

Local clock offset: -2.29 ms

Remote clock offset: -0.11 ms

Below is generated by plot.py at 2019-07-12 01:05:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.93 Mbit/s

95th percentile per-packet one-way delay: 5.717 ms

Loss rate: 1.62%

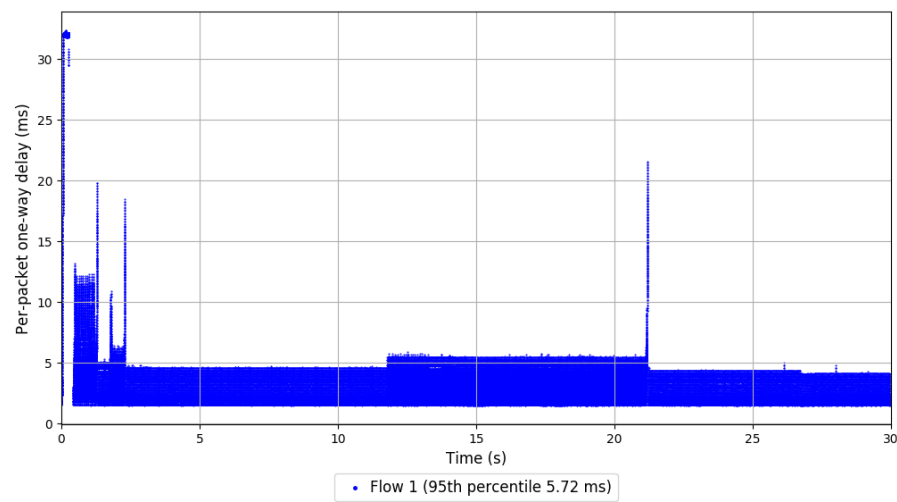
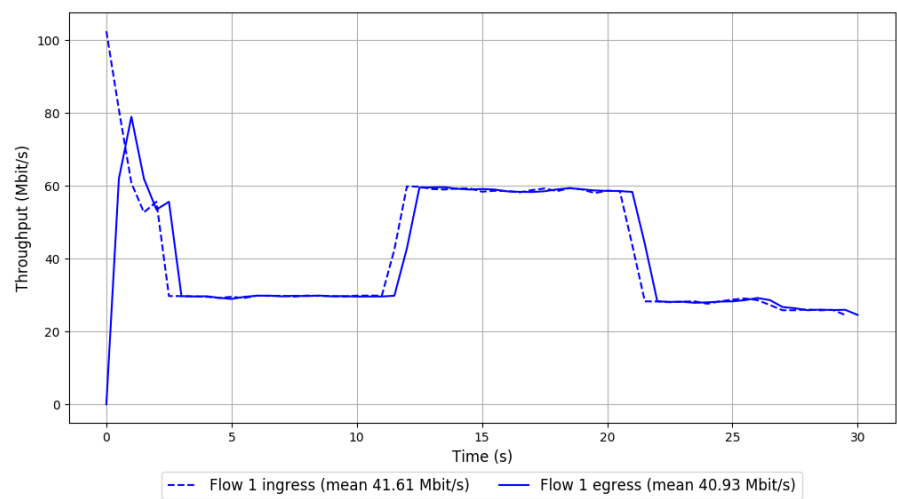
-- Flow 1:

Average throughput: 40.93 Mbit/s

95th percentile per-packet one-way delay: 5.717 ms

Loss rate: 1.62%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-07-11 23:43:47

End at: 2019-07-11 23:44:17

Local clock offset: -2.112 ms

Remote clock offset: 0.12 ms

Below is generated by plot.py at 2019-07-12 01:05:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.66 Mbit/s

95th percentile per-packet one-way delay: 12.183 ms

Loss rate: 0.87%

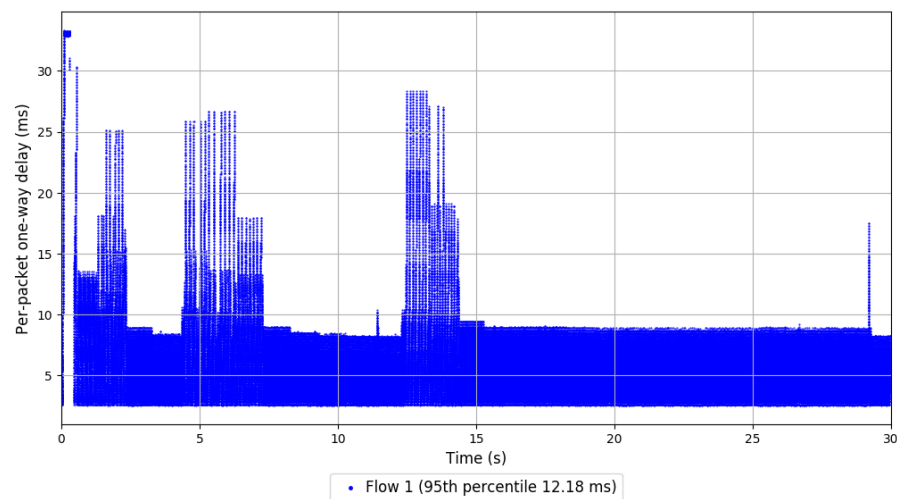
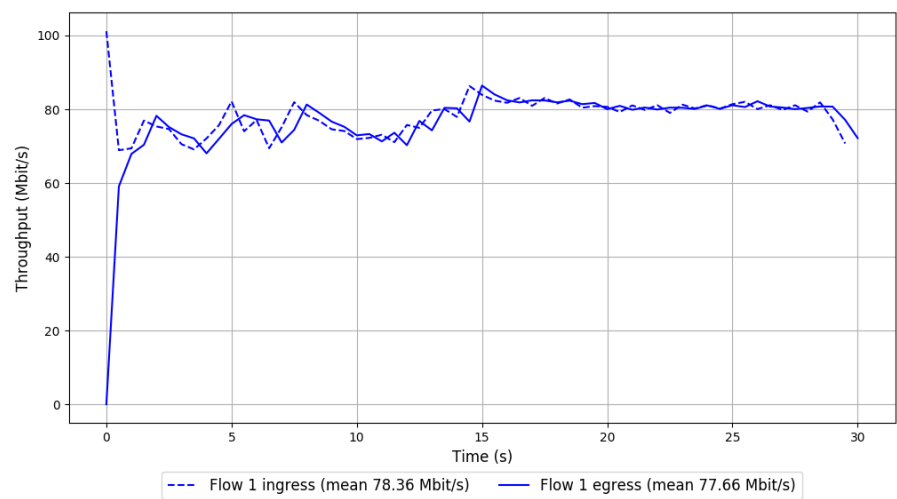
-- Flow 1:

Average throughput: 77.66 Mbit/s

95th percentile per-packet one-way delay: 12.183 ms

Loss rate: 0.87%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-07-12 00:10:31

End at: 2019-07-12 00:11:02

Local clock offset: -2.775 ms

Remote clock offset: 0.25 ms

Below is generated by plot.py at 2019-07-12 01:05:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.24 Mbit/s

95th percentile per-packet one-way delay: 35.553 ms

Loss rate: 4.82%

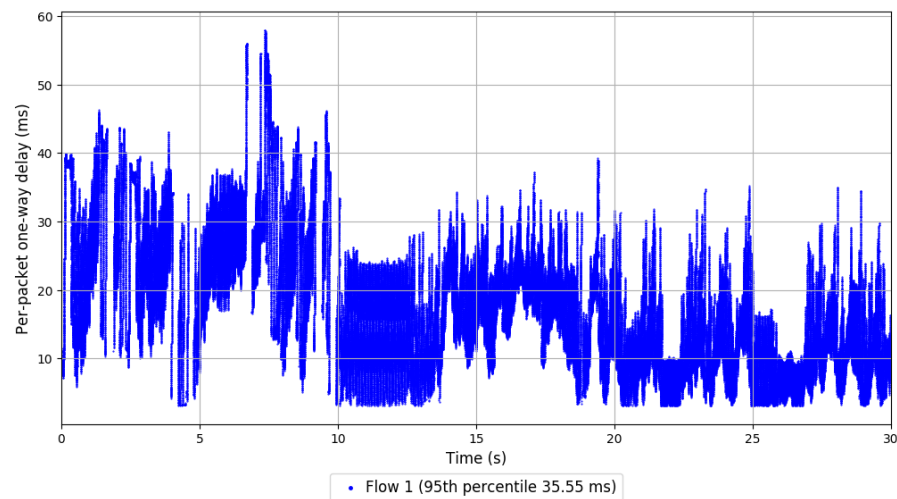
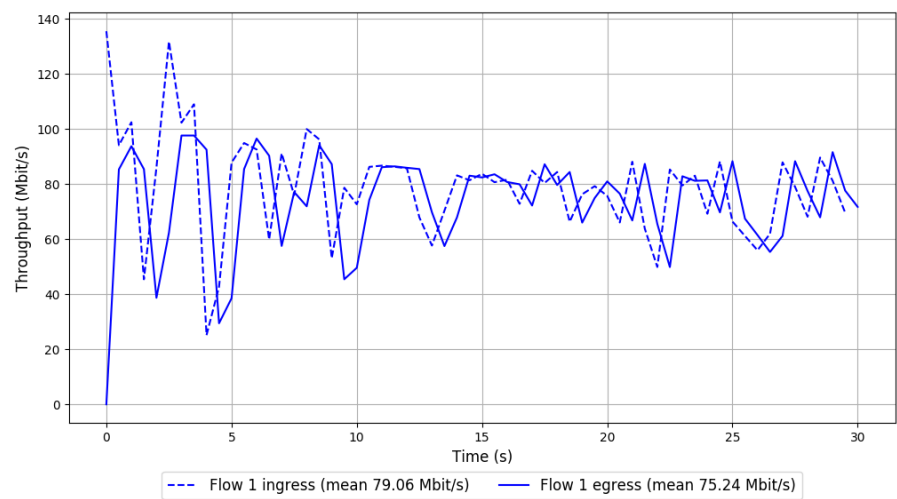
-- Flow 1:

Average throughput: 75.24 Mbit/s

95th percentile per-packet one-way delay: 35.553 ms

Loss rate: 4.82%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-07-12 00:37:17

End at: 2019-07-12 00:37:47

Local clock offset: -2.638 ms

Remote clock offset: 0.319 ms

Below is generated by plot.py at 2019-07-12 01:05:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.53 Mbit/s

95th percentile per-packet one-way delay: 7.212 ms

Loss rate: 1.53%

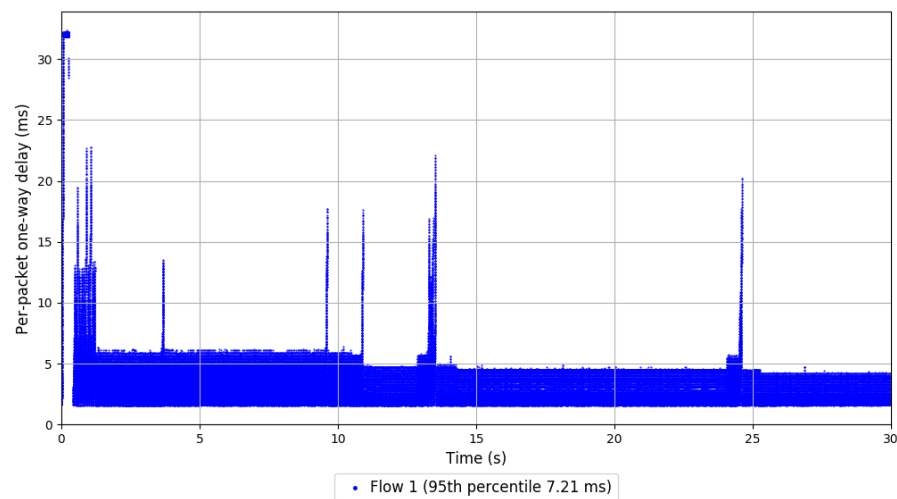
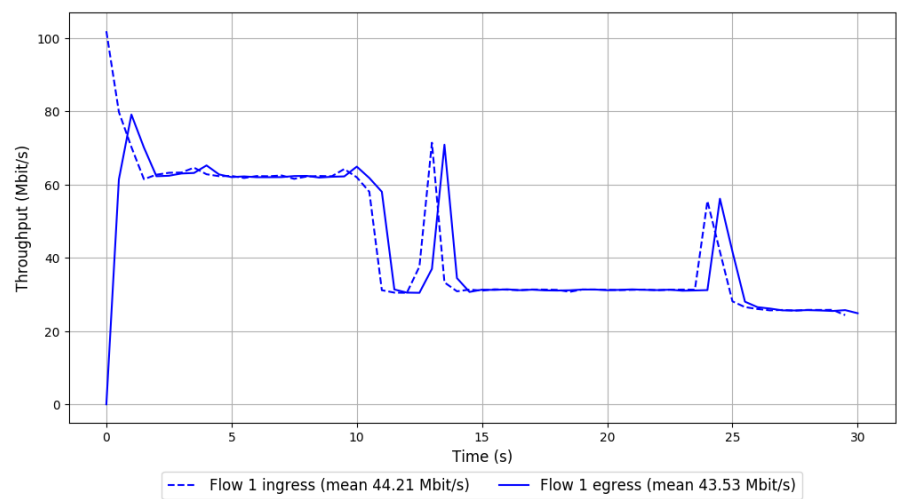
-- Flow 1:

Average throughput: 43.53 Mbit/s

95th percentile per-packet one-way delay: 7.212 ms

Loss rate: 1.53%

Run 5: Report of Verus — Data Link

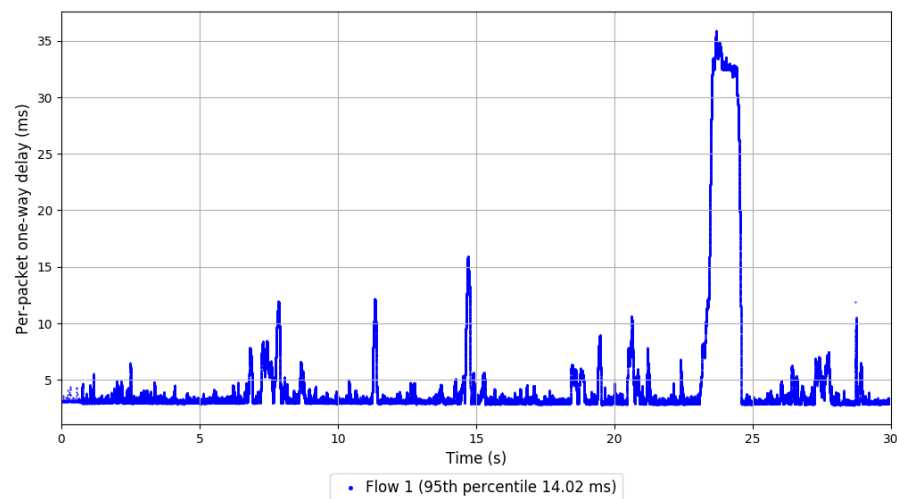
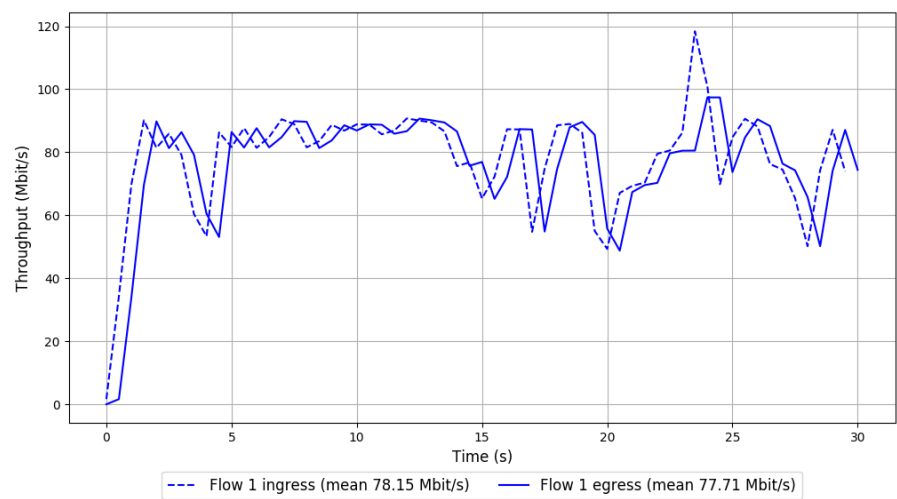


Run 1: Statistics of PCC-Vivace

Start at: 2019-07-11 23:00:16
End at: 2019-07-11 23:00:46
Local clock offset: -0.443 ms
Remote clock offset: -0.262 ms

Below is generated by plot.py at 2019-07-12 01:06:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.71 Mbit/s
95th percentile per-packet one-way delay: 14.018 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 77.71 Mbit/s
95th percentile per-packet one-way delay: 14.018 ms
Loss rate: 0.56%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-07-11 23:26:58

End at: 2019-07-11 23:27:28

Local clock offset: -1.62 ms

Remote clock offset: -0.121 ms

Below is generated by plot.py at 2019-07-12 01:06:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.99 Mbit/s

95th percentile per-packet one-way delay: 10.008 ms

Loss rate: 0.00%

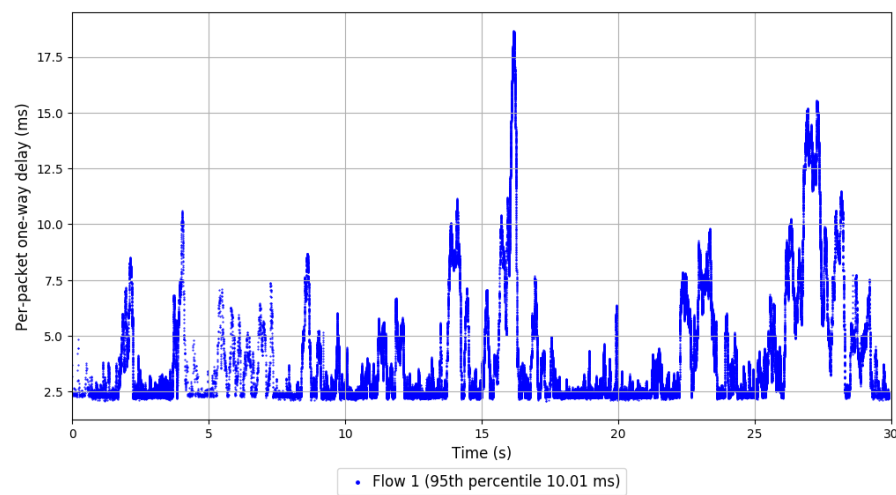
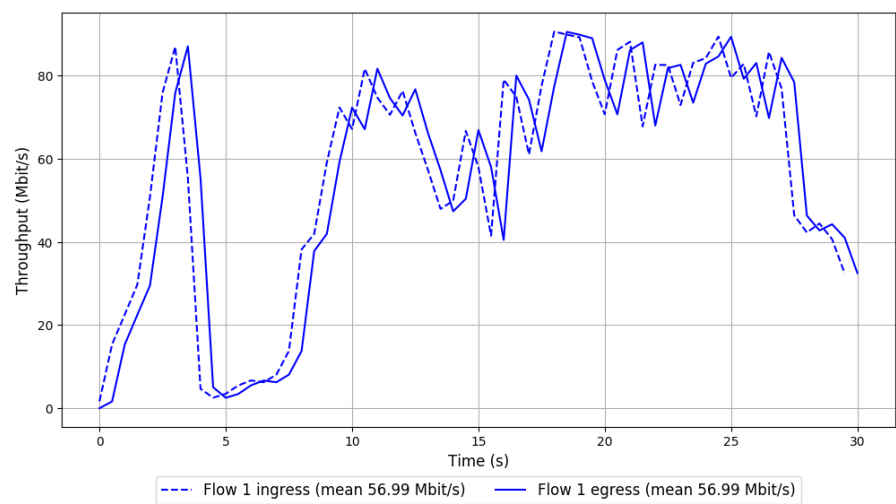
-- Flow 1:

Average throughput: 56.99 Mbit/s

95th percentile per-packet one-way delay: 10.008 ms

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-07-11 23:53:43

End at: 2019-07-11 23:54:13

Local clock offset: -2.751 ms

Remote clock offset: 0.162 ms

Below is generated by plot.py at 2019-07-12 01:06:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.56 Mbit/s

95th percentile per-packet one-way delay: 5.897 ms

Loss rate: 0.04%

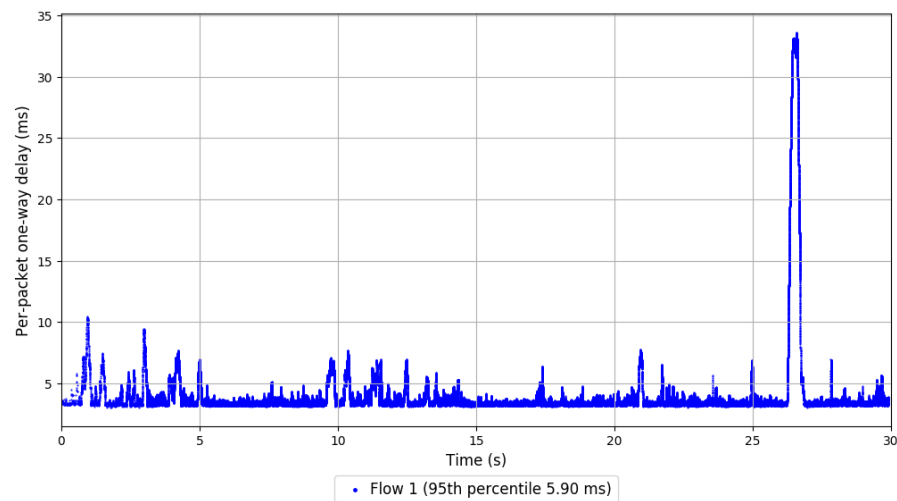
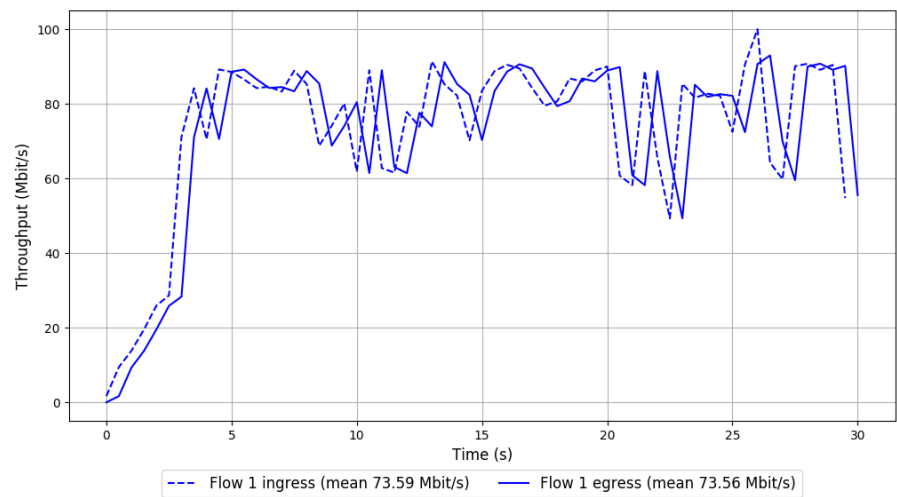
-- Flow 1:

Average throughput: 73.56 Mbit/s

95th percentile per-packet one-way delay: 5.897 ms

Loss rate: 0.04%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-07-12 00:20:28

End at: 2019-07-12 00:20:58

Local clock offset: -2.046 ms

Remote clock offset: 0.265 ms

Below is generated by plot.py at 2019-07-12 01:06:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.50 Mbit/s

95th percentile per-packet one-way delay: 1.086 ms

Loss rate: 0.00%

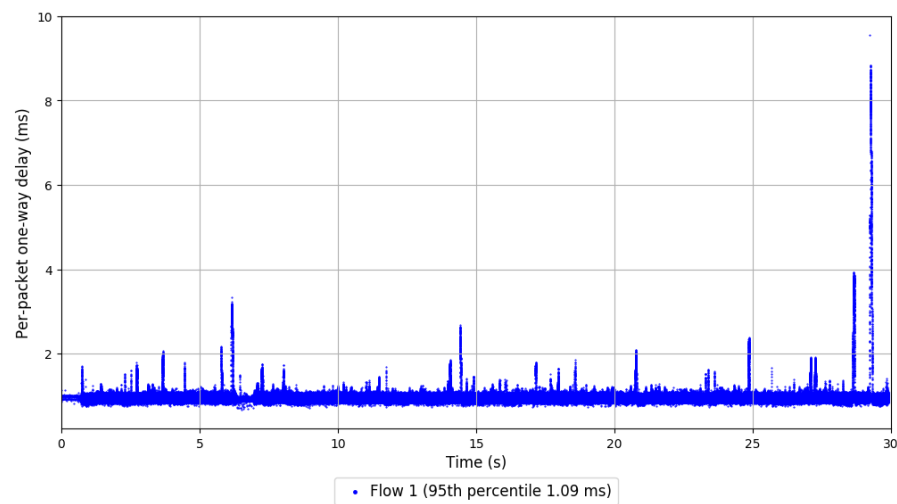
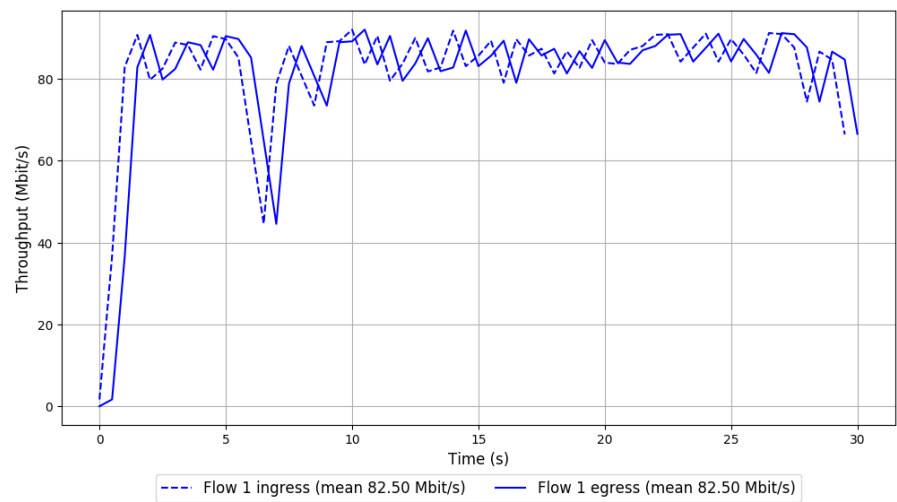
-- Flow 1:

Average throughput: 82.50 Mbit/s

95th percentile per-packet one-way delay: 1.086 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-07-12 00:47:17

End at: 2019-07-12 00:47:47

Local clock offset: -2.776 ms

Remote clock offset: 0.313 ms

Below is generated by plot.py at 2019-07-12 01:06:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.25 Mbit/s

95th percentile per-packet one-way delay: 2.110 ms

Loss rate: 0.00%

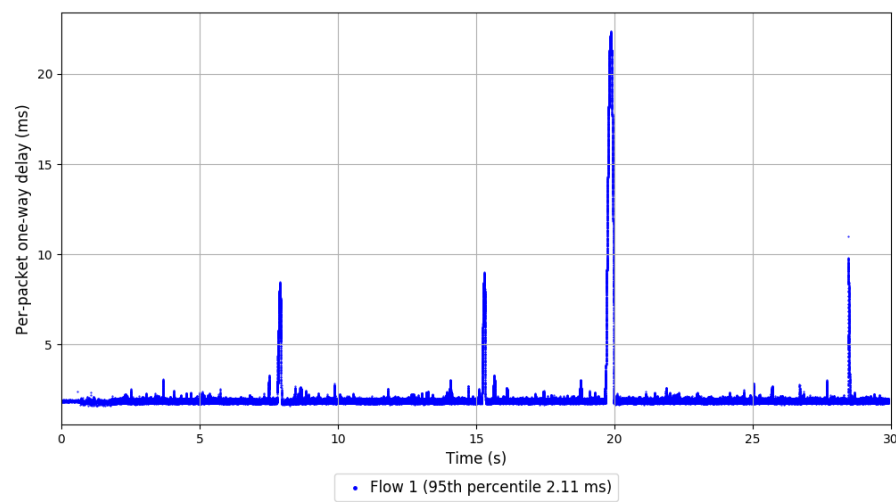
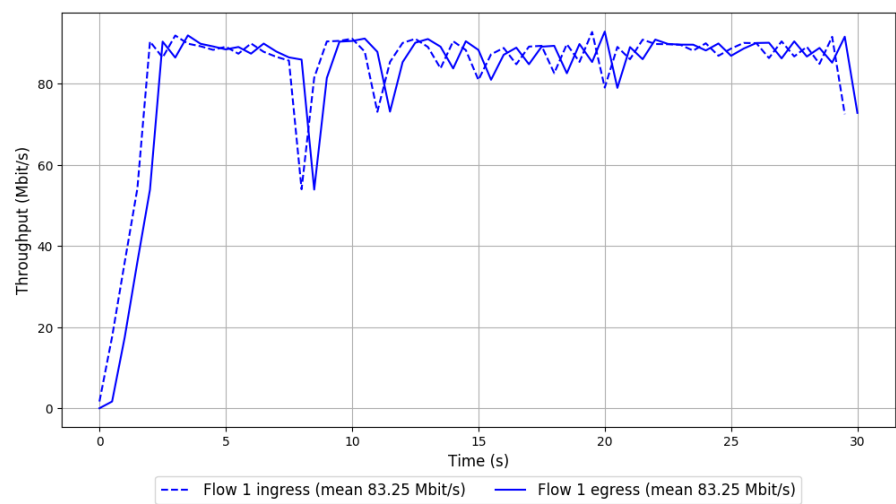
-- Flow 1:

Average throughput: 83.25 Mbit/s

95th percentile per-packet one-way delay: 2.110 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link

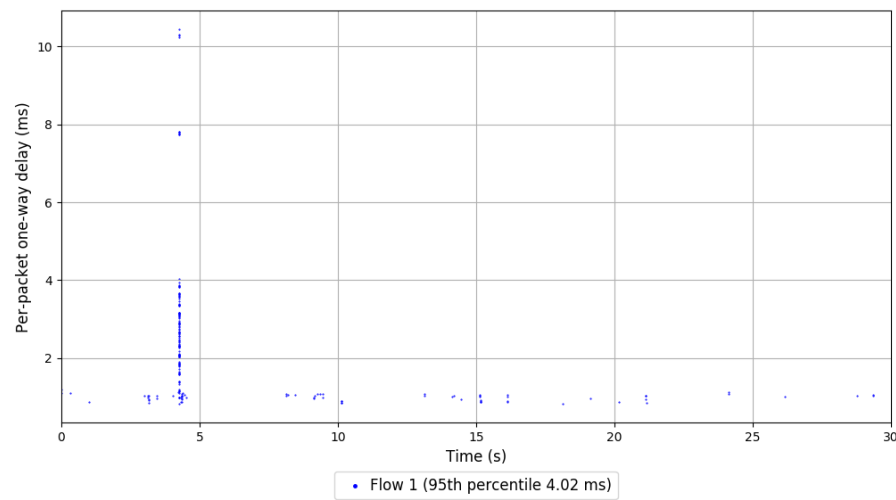
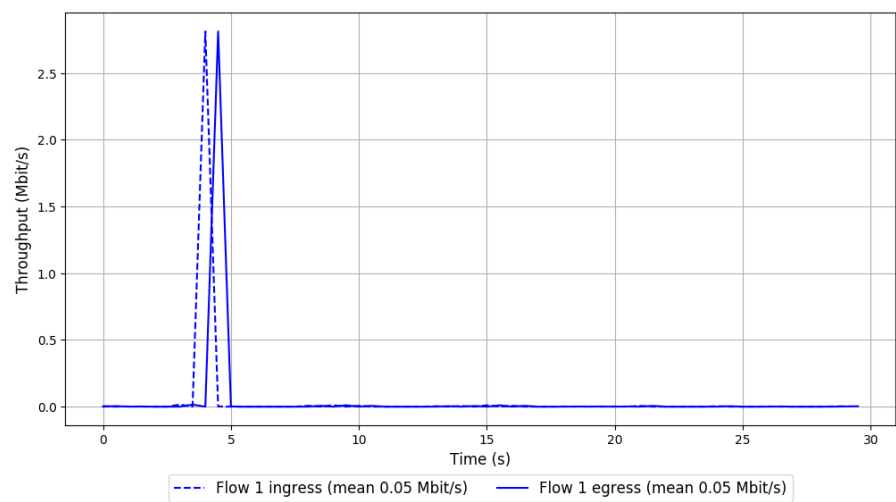


Run 1: Statistics of WebRTC media

Start at: 2019-07-11 22:40:21
End at: 2019-07-11 22:40:51
Local clock offset: -0.107 ms
Remote clock offset: -0.343 ms

Below is generated by plot.py at 2019-07-12 01:06:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.017 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.017 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

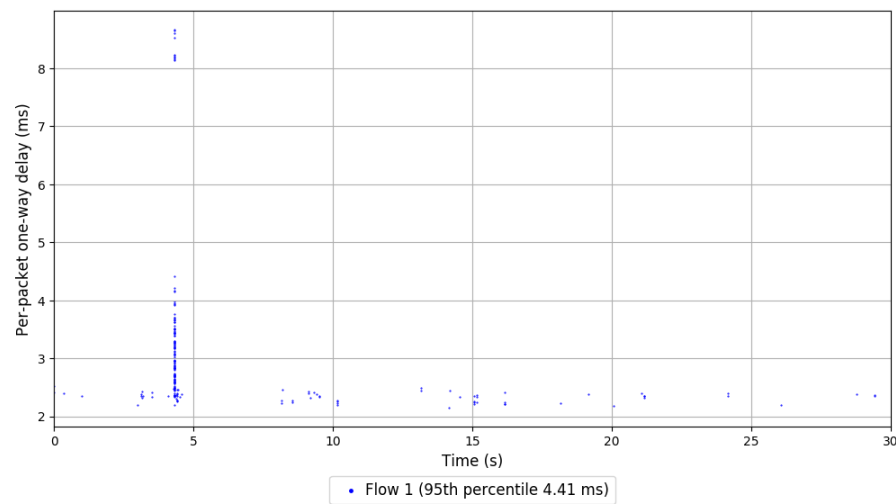
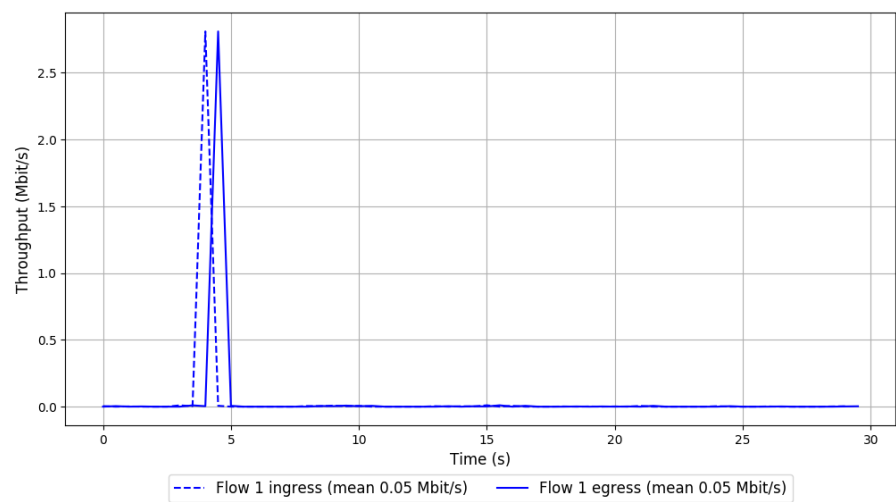


Run 2: Statistics of WebRTC media

Start at: 2019-07-11 23:07:02
End at: 2019-07-11 23:07:32
Local clock offset: -0.924 ms
Remote clock offset: -0.164 ms

Below is generated by plot.py at 2019-07-12 01:06:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.410 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.410 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-07-11 23:33:44

End at: 2019-07-11 23:34:14

Local clock offset: -1.792 ms

Remote clock offset: 0.033 ms

Below is generated by plot.py at 2019-07-12 01:06:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 7.944 ms

Loss rate: 0.05%

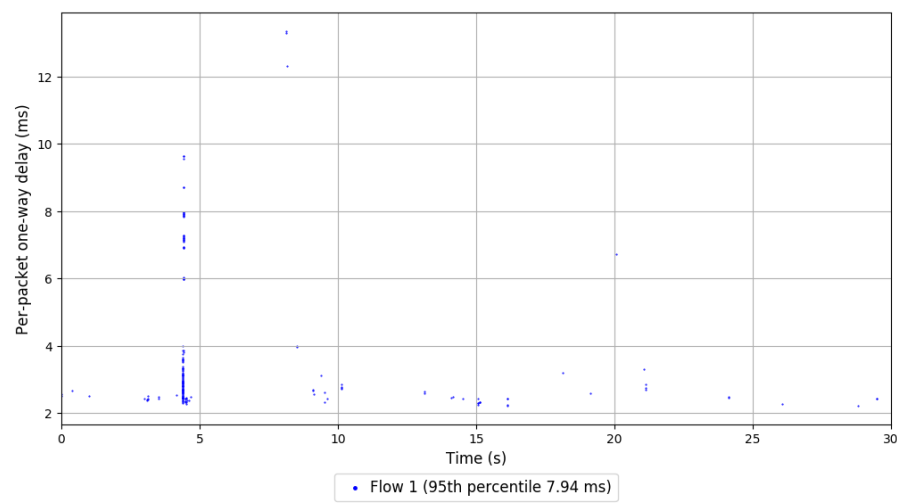
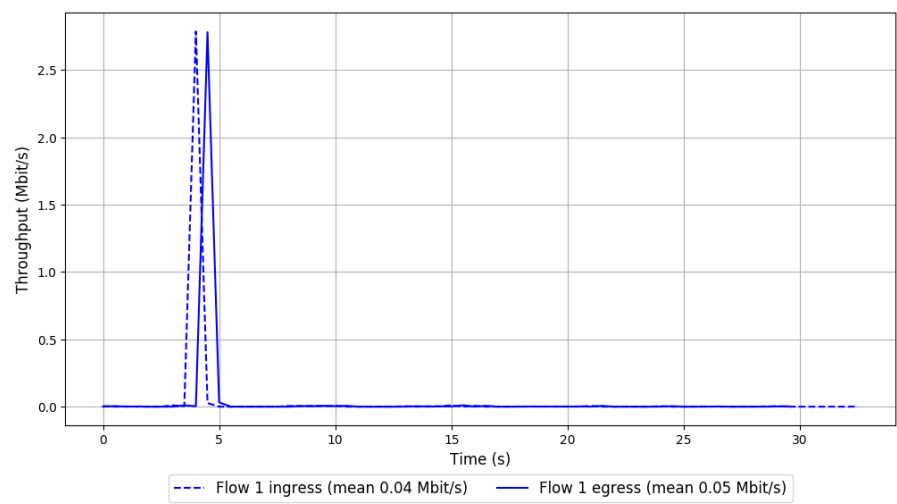
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 7.944 ms

Loss rate: 0.05%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-07-12 00:00:29

End at: 2019-07-12 00:00:59

Local clock offset: -1.901 ms

Remote clock offset: 0.045 ms

Below is generated by plot.py at 2019-07-12 01:06:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 3.553 ms

Loss rate: 0.00%

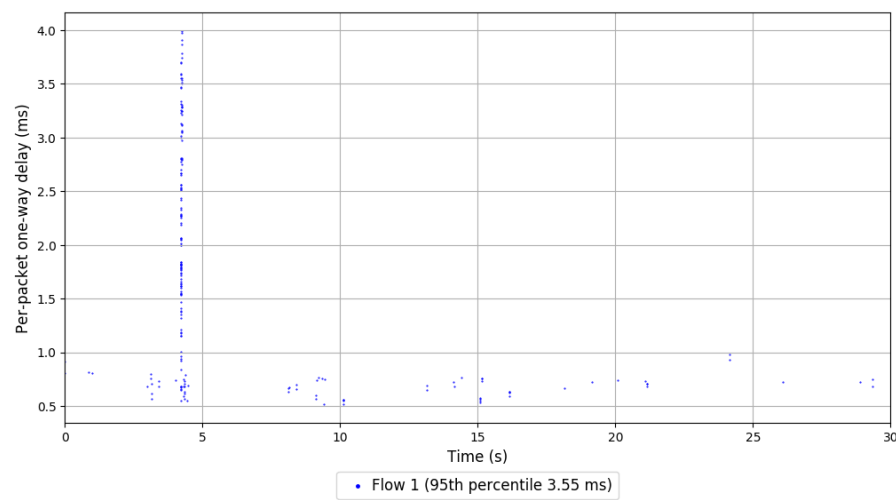
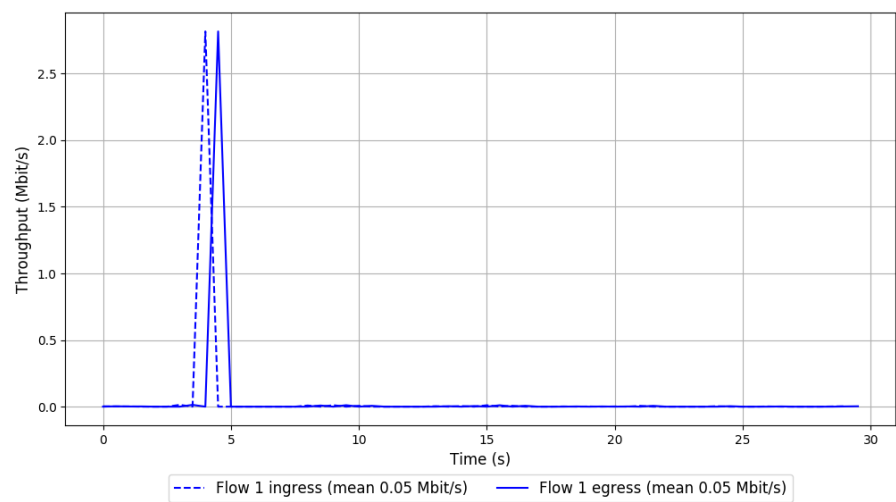
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 3.553 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-07-12 00:27:16

End at: 2019-07-12 00:27:46

Local clock offset: -2.255 ms

Remote clock offset: 0.264 ms

Below is generated by plot.py at 2019-07-12 01:06:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 3.943 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 3.943 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

