

Pantheon Report

Generated at 2019-07-12 01:12:36 (UTC).

Data path: AWS India 1 on `ens5` (*local*) → India on `em1` (*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 `nets.org.sg` and have been applied to correct the timestamps in logs.

System info:

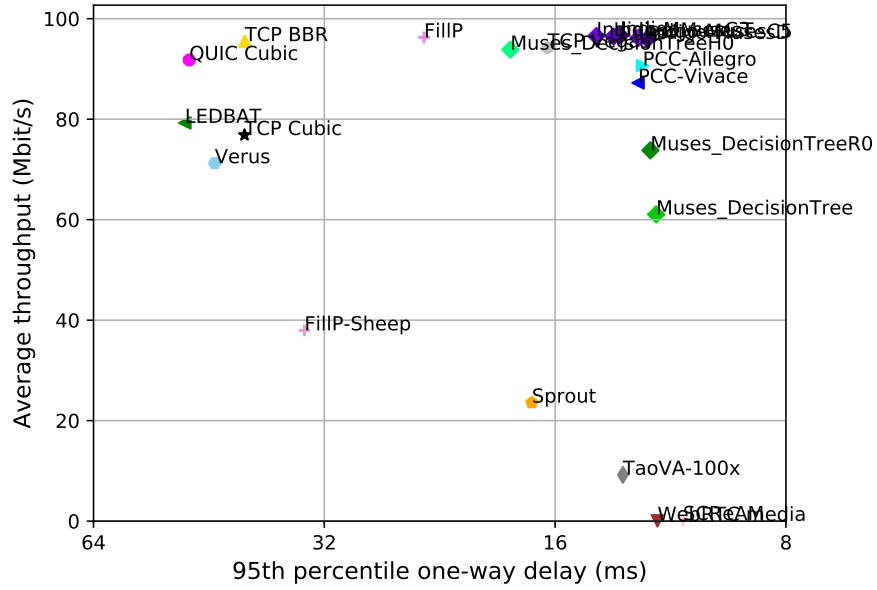
```
Linux 4.15.0-1041-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

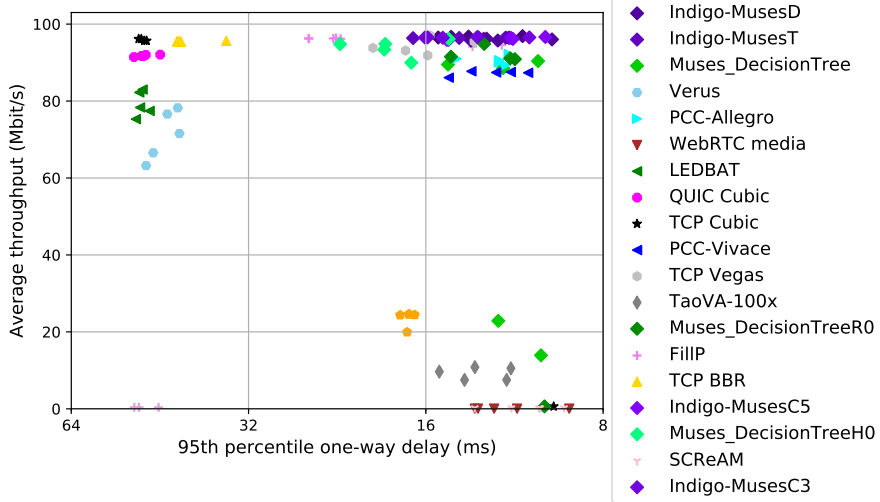
```
branch: muses @ 2076e1149a241f3edb4365d686df32342bf9561f
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
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 India 1 to India, 5 runs of 30s each per scheme
(mean of all runs by scheme)



test from AWS India 1 to India, 5 runs of 30s each per scheme



scheme	# runs	mean avg tput (Mbit/s)	mean 95th-%ile delay (ms)	mean loss rate (%)
		flow 1	flow 1	flow 1
TCP BBR	5	95.53	40.62	0.21
Copa	0	N/A	N/A	N/A
TCP Cubic	5	76.85	40.67	3.95
FillP	5	96.27	23.72	0.43
FillP-Sheep	5	37.97	33.97	24.73
Indigo	5	96.66	13.16	0.00
Indigo-MusesC3	5	96.54	14.14	0.00
Indigo-MusesC5	5	96.21	12.45	0.00
Indigo-MusesD	5	95.97	12.13	0.00
Indigo-MusesT	5	96.45	13.42	0.00
LEDBAT	5	79.26	48.64	0.14
Muses_DecisionTree	5	61.04	11.81	0.49
Muses_DecisionTreeH0	5	93.83	18.30	0.17
Muses_DecisionTreeR0	5	73.80	12.02	3.64
PCC-Allegro	5	90.64	12.30	0.28
PCC-Expr	0	N/A	N/A	N/A
QUIC Cubic	5	91.78	48.01	0.53
SCReAM	5	0.21	10.90	0.00
Sprout	5	23.58	17.16	2.56
TaoVA-100x	5	9.22	13.05	79.80
TCP Vegas	5	94.25	16.37	0.37
Verus	5	71.24	44.46	27.54
PCC-Vivace	5	87.23	12.47	0.00
WebRTC media	5	0.05	11.77	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-07-11 23:03:35

End at: 2019-07-11 23:04:05

Local clock offset: -0.917 ms

Remote clock offset: -0.25 ms

Below is generated by plot.py at 2019-07-12 01:00:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.42 Mbit/s

95th percentile per-packet one-way delay: 41.691 ms

Loss rate: 0.21%

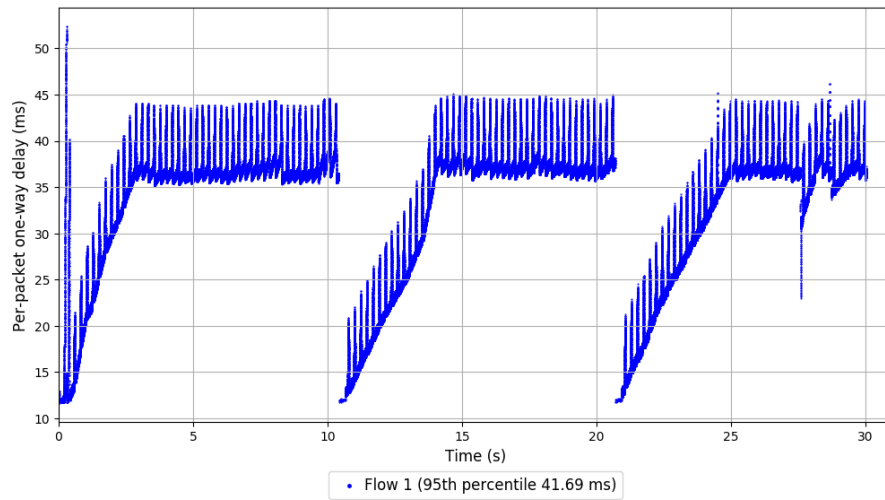
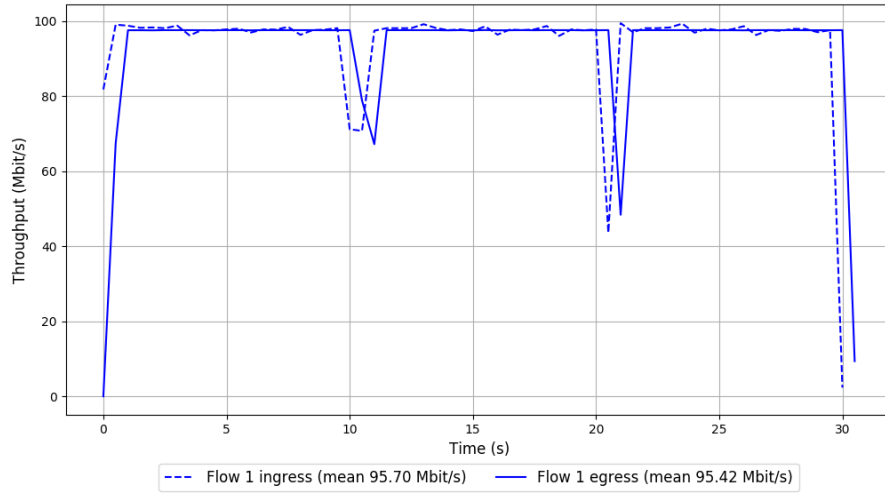
-- Flow 1:

Average throughput: 95.42 Mbit/s

95th percentile per-packet one-way delay: 41.691 ms

Loss rate: 0.21%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-07-11 23:31:06

End at: 2019-07-11 23:31:36

Local clock offset: -0.41 ms

Remote clock offset: -1.749 ms

Below is generated by plot.py at 2019-07-12 01:00:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.49 Mbit/s

95th percentile per-packet one-way delay: 42.330 ms

Loss rate: 0.21%

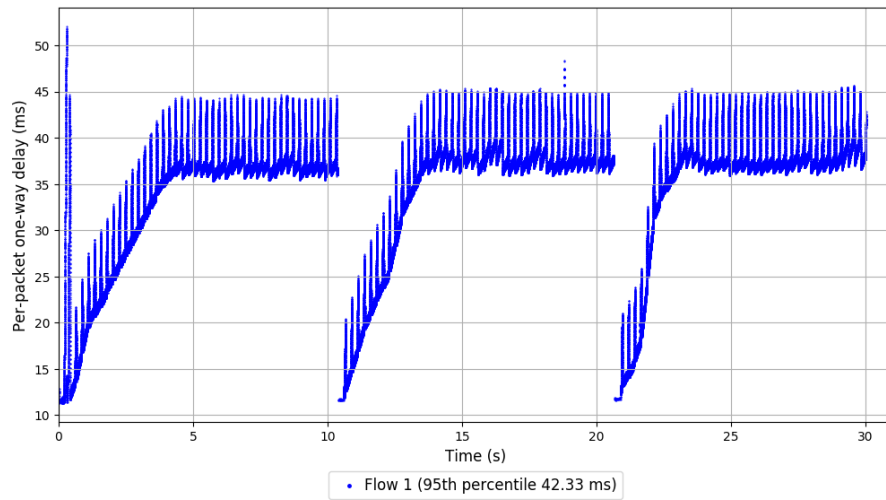
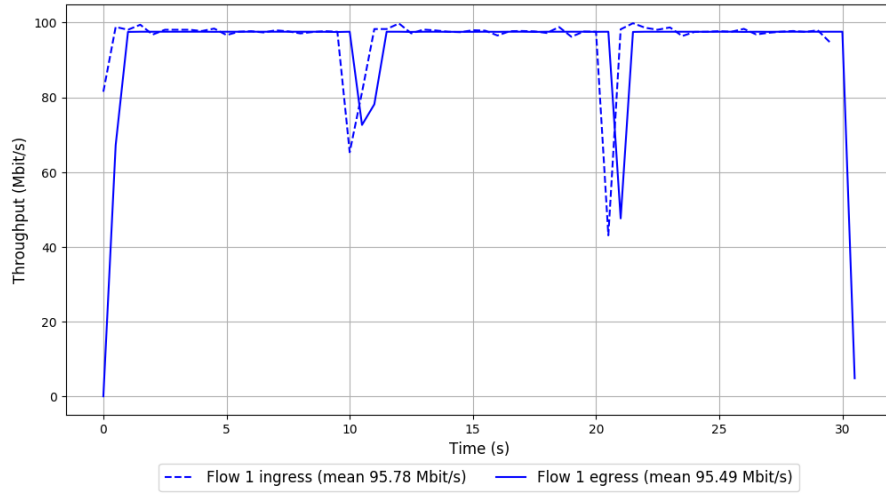
-- Flow 1:

Average throughput: 95.49 Mbit/s

95th percentile per-packet one-way delay: 42.330 ms

Loss rate: 0.21%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-07-11 23:58:49

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

Local clock offset: 6.012 ms

Remote clock offset: -1.458 ms

Below is generated by plot.py at 2019-07-12 01:00:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.66 Mbit/s

95th percentile per-packet one-way delay: 34.914 ms

Loss rate: 0.19%

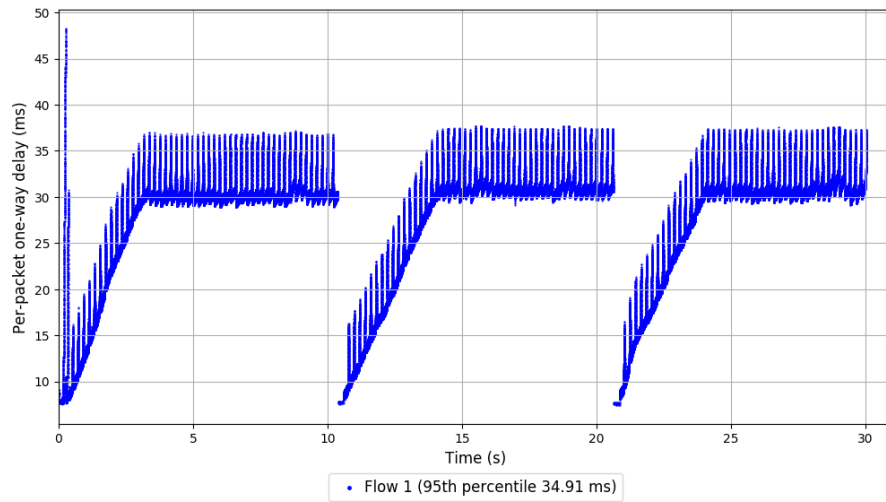
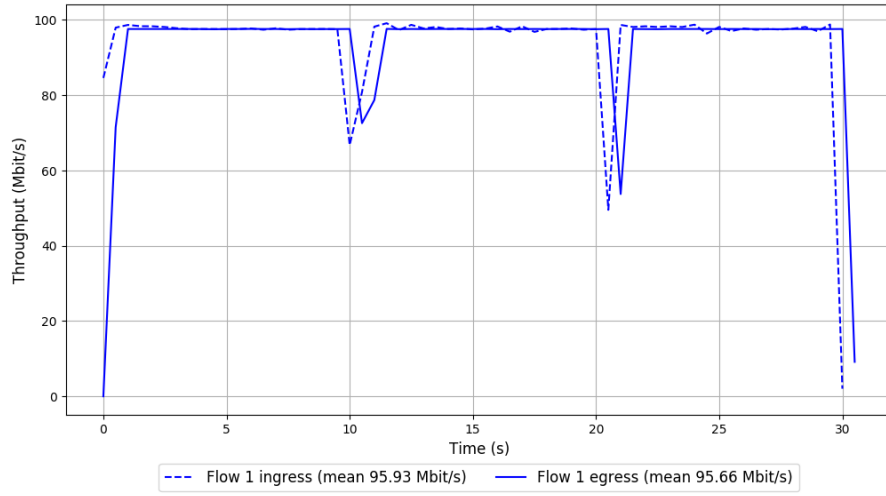
-- Flow 1:

Average throughput: 95.66 Mbit/s

95th percentile per-packet one-way delay: 34.914 ms

Loss rate: 0.19%

Run 3: Report of TCP BBR — Data Link

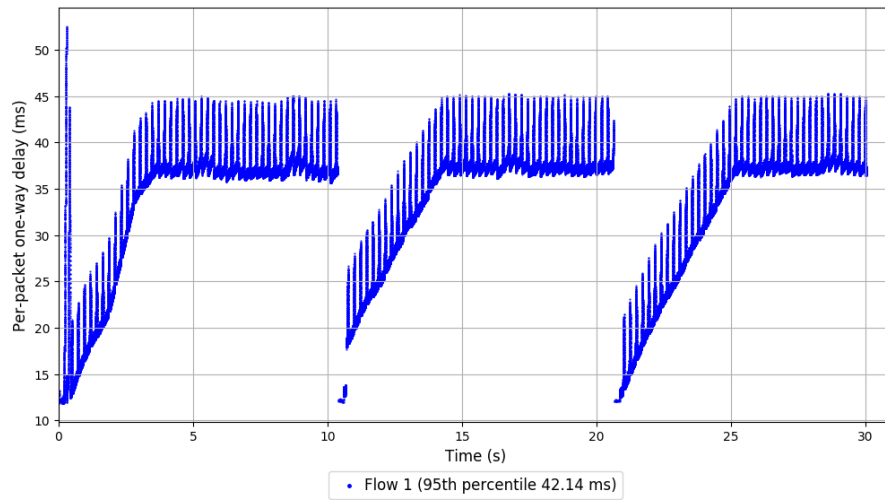
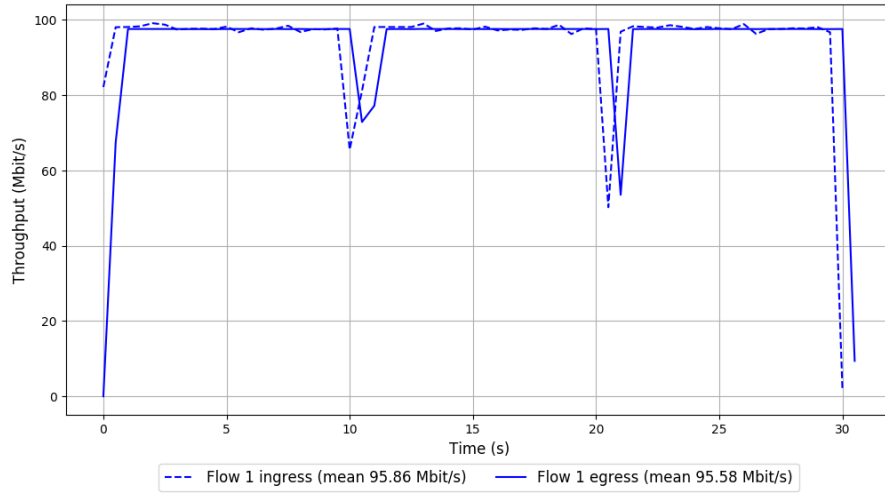


Run 4: Statistics of TCP BBR

Start at: 2019-07-12 00:26:14
End at: 2019-07-12 00:26:44
Local clock offset: -0.814 ms
Remote clock offset: -2.862 ms

Below is generated by plot.py at 2019-07-12 01:00:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.58 Mbit/s
95th percentile per-packet one-way delay: 42.144 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 95.58 Mbit/s
95th percentile per-packet one-way delay: 42.144 ms
Loss rate: 0.21%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-07-12 00:53:47

End at: 2019-07-12 00:54:17

Local clock offset: 3.104 ms

Remote clock offset: -4.812 ms

Below is generated by plot.py at 2019-07-12 01:00:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.49 Mbit/s

95th percentile per-packet one-way delay: 42.035 ms

Loss rate: 0.22%

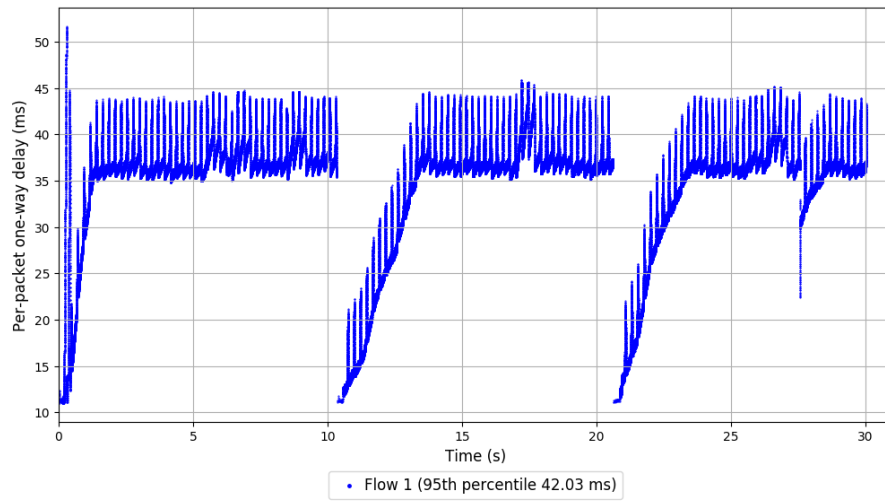
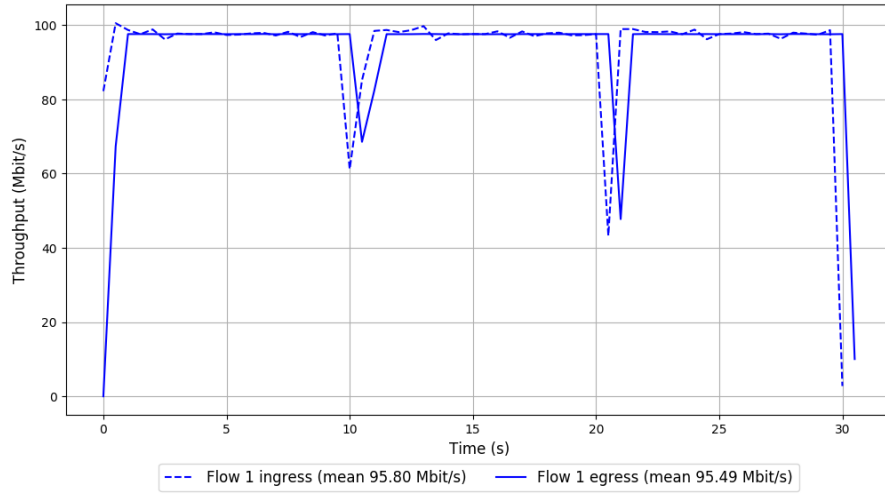
-- Flow 1:

Average throughput: 95.49 Mbit/s

95th percentile per-packet one-way delay: 42.035 ms

Loss rate: 0.22%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

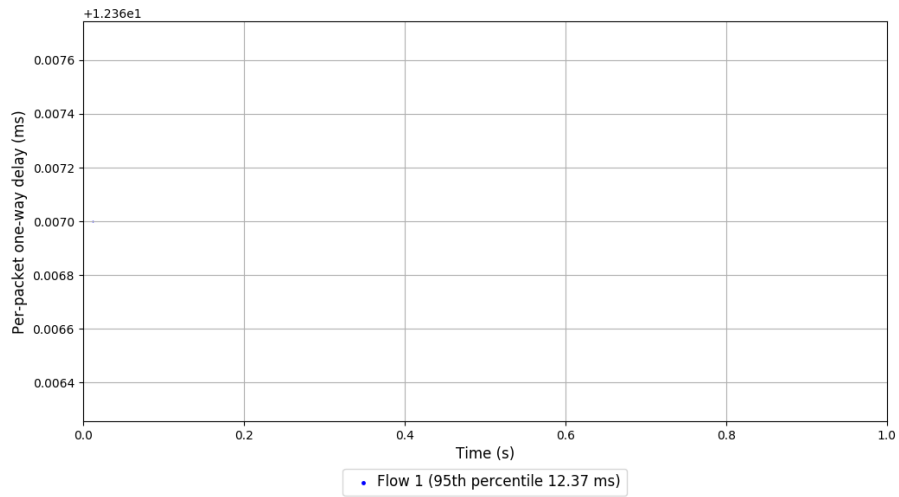
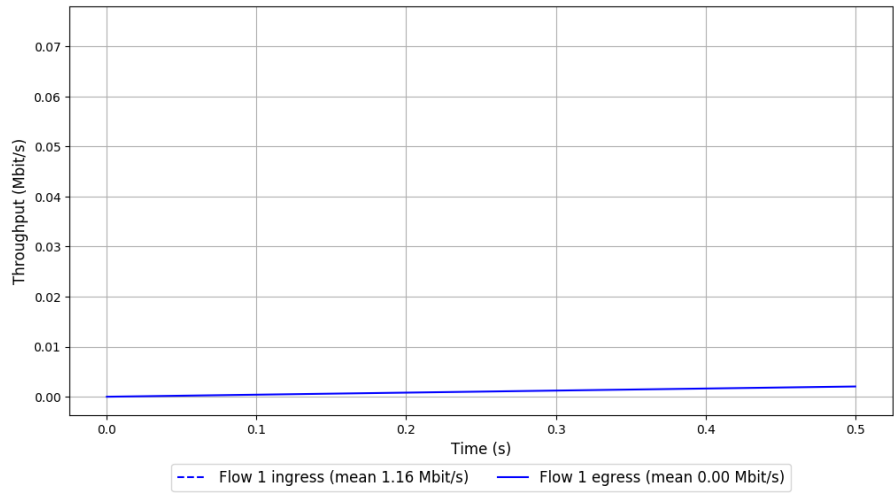
Start at: 2019-07-11 22:56:34

End at: 2019-07-11 22:57:04

Local clock offset: -0.517 ms

Remote clock offset: 0.505 ms

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

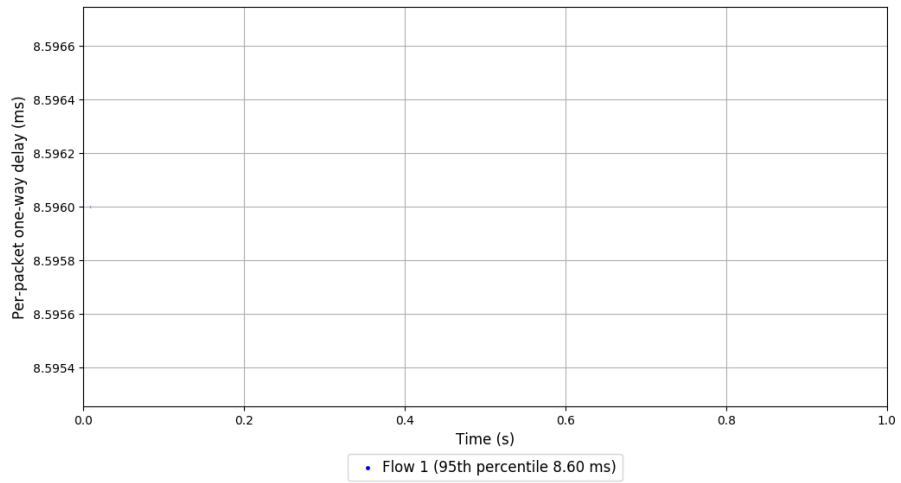
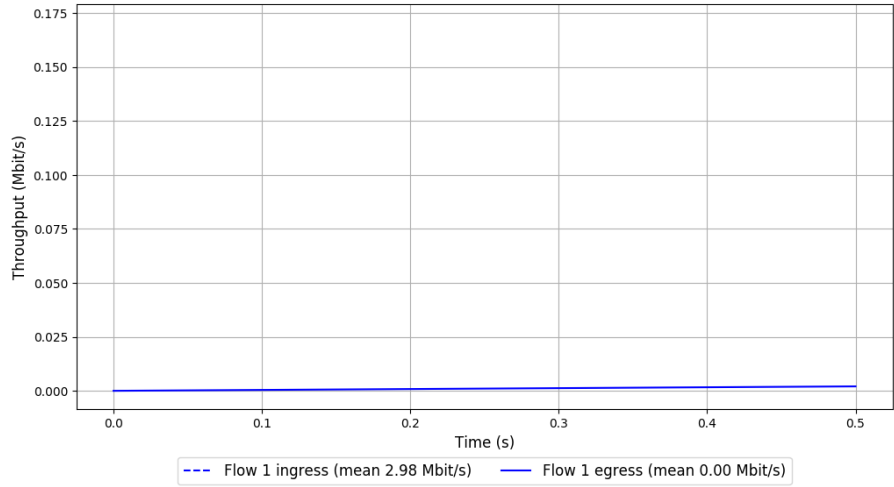
Start at: 2019-07-11 23:24:15

End at: 2019-07-11 23:24:45

Local clock offset: -1.717 ms

Remote clock offset: -1.373 ms

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

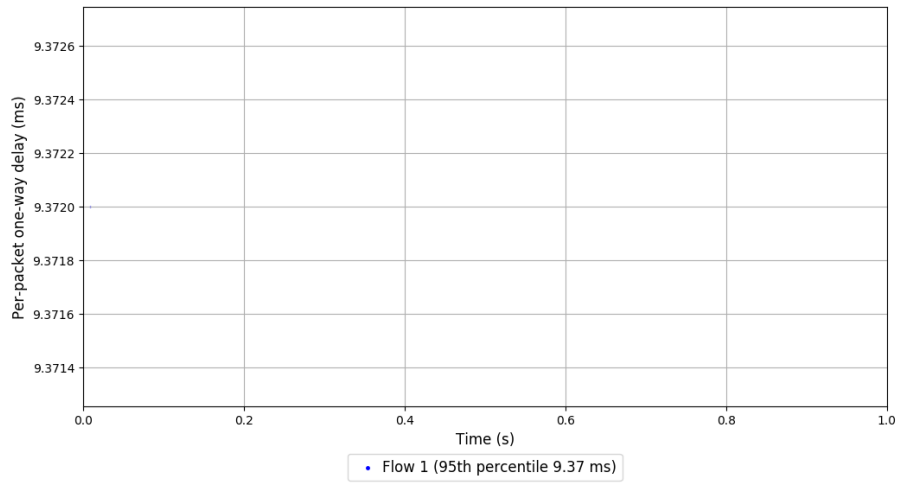
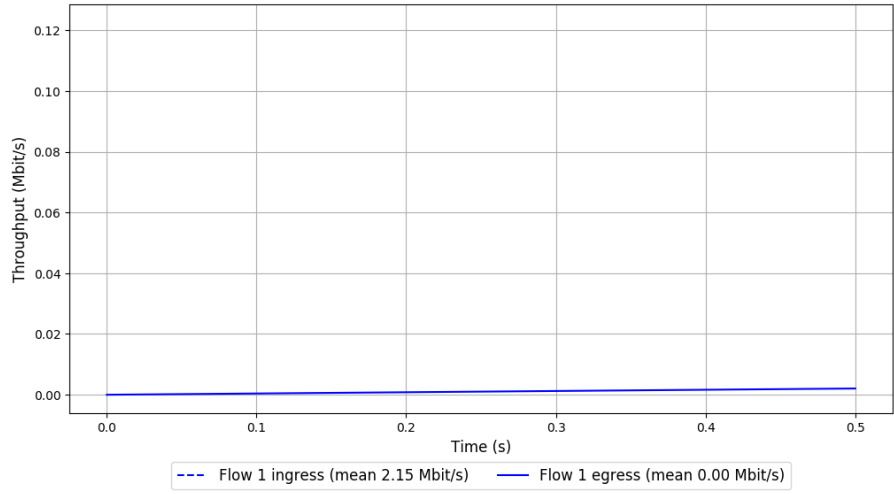
Start at: 2019-07-11 23:51:57

End at: 2019-07-11 23:52:27

Local clock offset: 4.848 ms

Remote clock offset: -0.255 ms

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

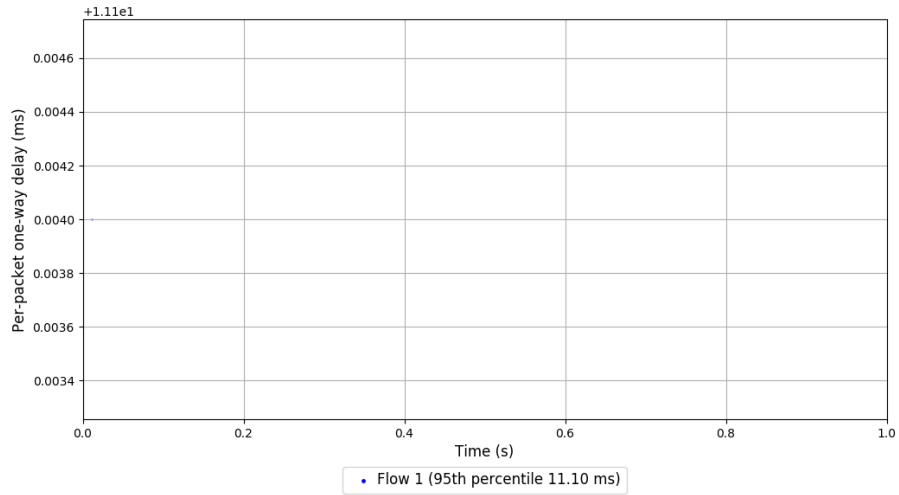
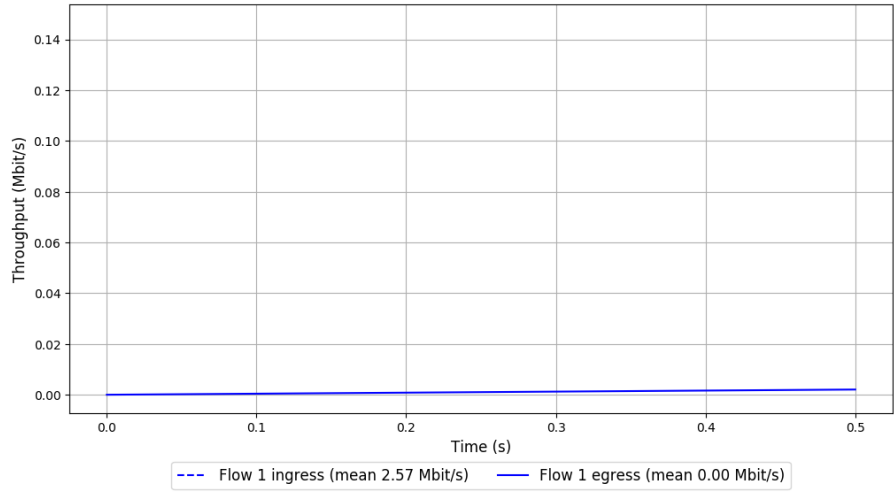
Start at: 2019-07-12 00:19:24

End at: 2019-07-12 00:19:54

Local clock offset: -1.393 ms

Remote clock offset: -1.123 ms

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

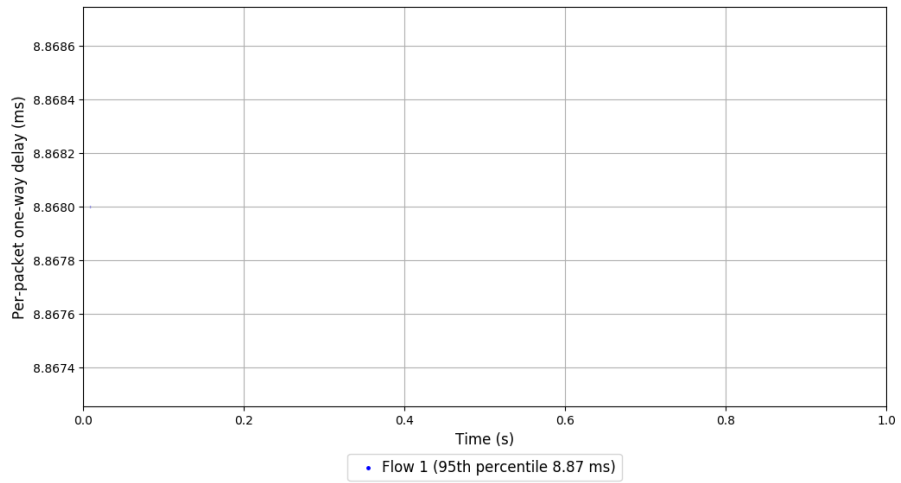
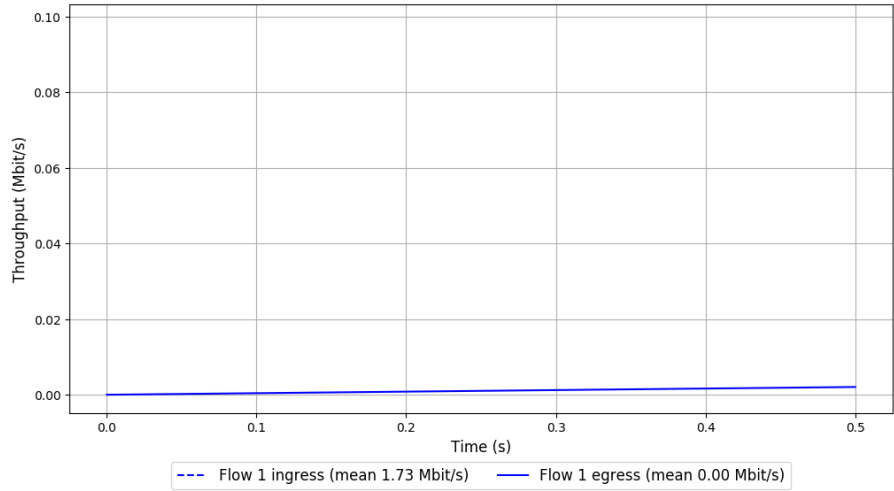
Start at: 2019-07-12 00:46:53

End at: 2019-07-12 00:47:23

Local clock offset: 2.588 ms

Remote clock offset: -3.724 ms

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-07-11 22:50:54
End at: 2019-07-11 22:51:24
Local clock offset: -1.664 ms
Remote clock offset: -1.464 ms

Below is generated by plot.py at 2019-07-12 01:00:53

Datalink statistics

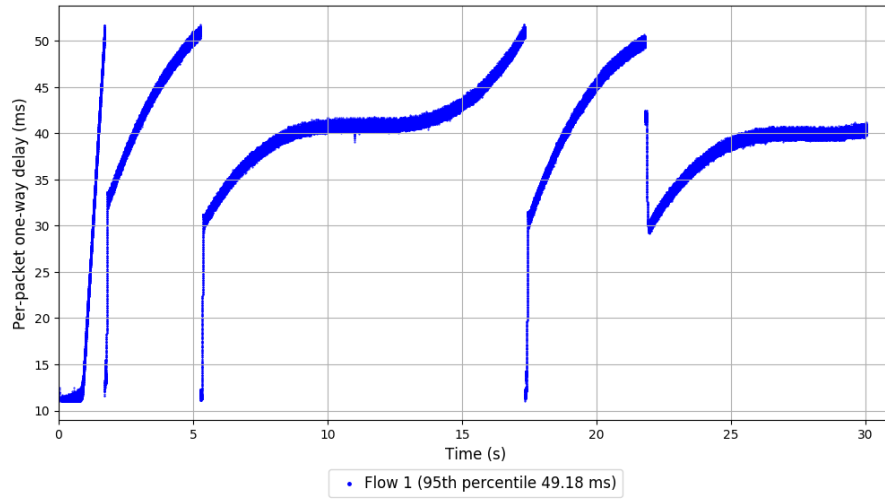
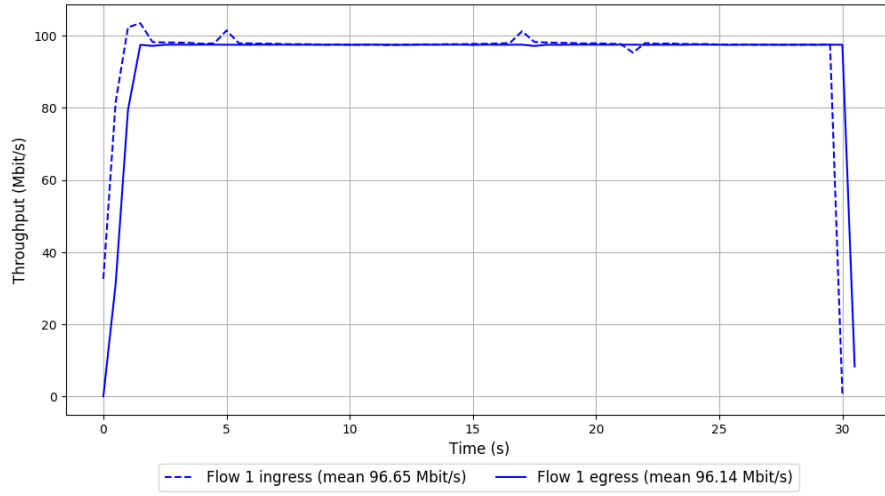
-- Total of 1 flow:

Average throughput: 96.14 Mbit/s
95th percentile per-packet one-way delay: 49.179 ms
Loss rate: 0.44%

-- Flow 1:

Average throughput: 96.14 Mbit/s
95th percentile per-packet one-way delay: 49.179 ms
Loss rate: 0.44%

Run 1: Report of TCP Cubic — Data Link

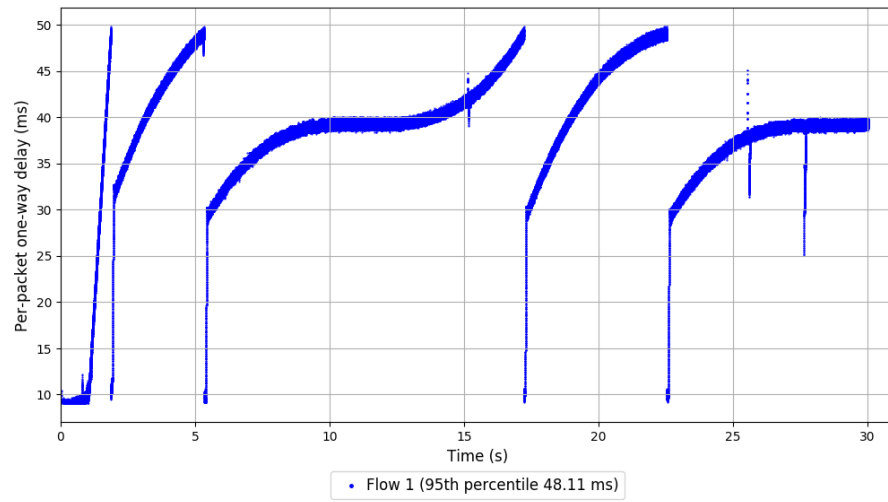
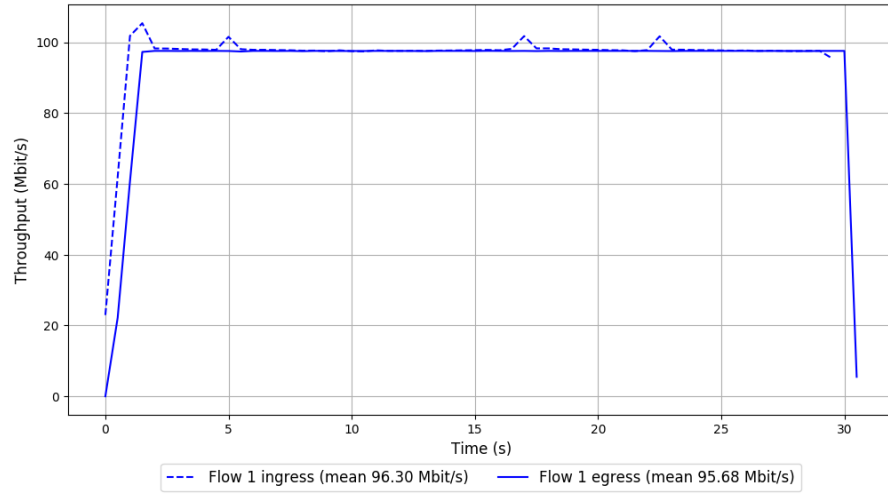


Run 2: Statistics of TCP Cubic

Start at: 2019-07-11 23:18:31
End at: 2019-07-11 23:19:01
Local clock offset: -1.686 ms
Remote clock offset: -0.493 ms

Below is generated by plot.py at 2019-07-12 01:00:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.68 Mbit/s
95th percentile per-packet one-way delay: 48.112 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 95.68 Mbit/s
95th percentile per-packet one-way delay: 48.112 ms
Loss rate: 0.54%

Run 2: Report of TCP Cubic — Data Link

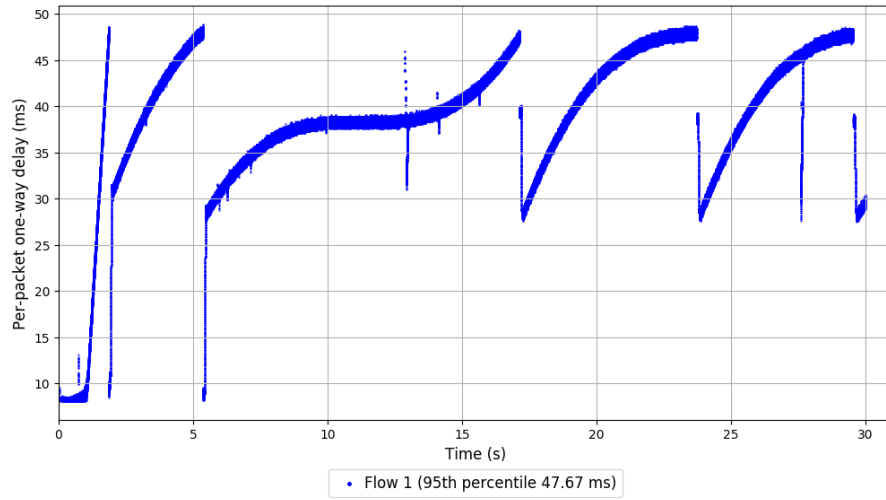
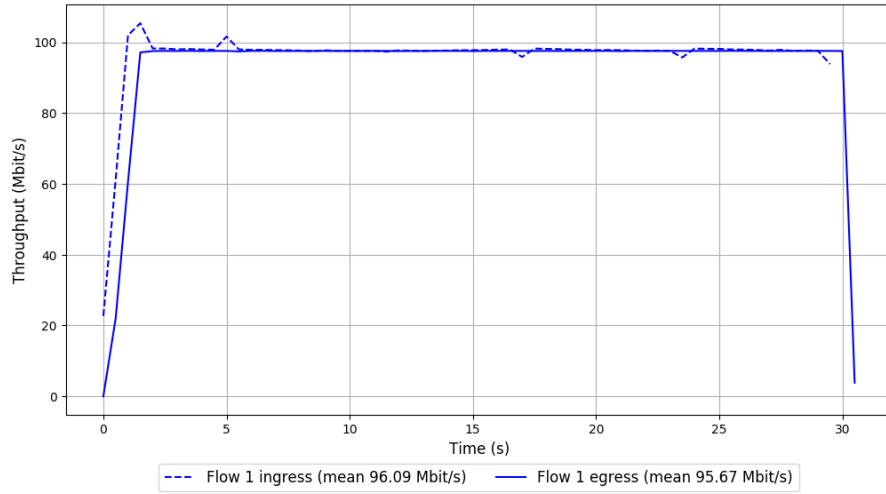


Run 3: Statistics of TCP Cubic

Start at: 2019-07-11 23:46:15
End at: 2019-07-11 23:46:45
Local clock offset: 4.857 ms
Remote clock offset: -0.646 ms

Below is generated by plot.py at 2019-07-12 01:00:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.67 Mbit/s
95th percentile per-packet one-way delay: 47.674 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 95.67 Mbit/s
95th percentile per-packet one-way delay: 47.674 ms
Loss rate: 0.36%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-07-12 00:13:40

End at: 2019-07-12 00:14:10

Local clock offset: 0.829 ms

Remote clock offset: -3.61 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.12 Mbit/s

95th percentile per-packet one-way delay: 48.660 ms

Loss rate: 0.44%

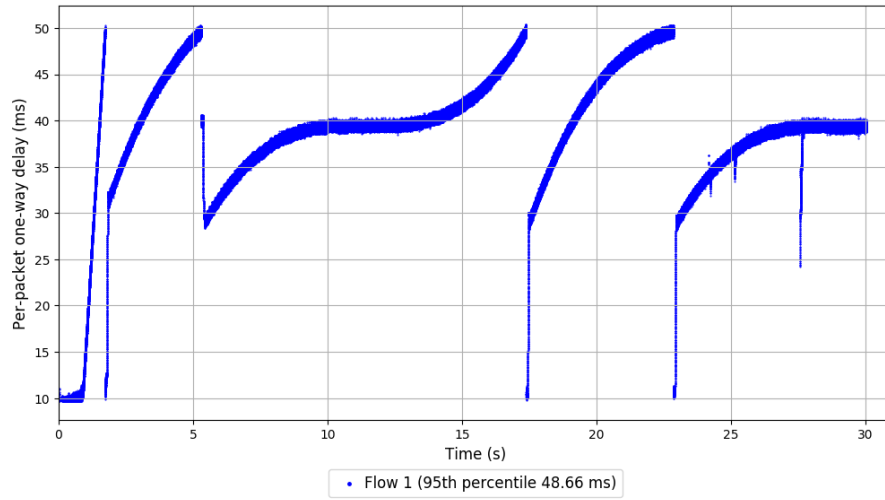
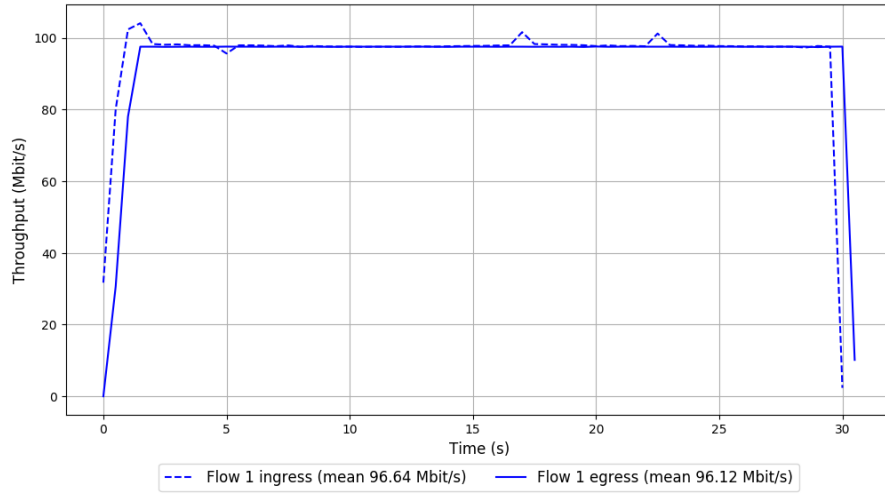
-- Flow 1:

Average throughput: 96.12 Mbit/s

95th percentile per-packet one-way delay: 48.660 ms

Loss rate: 0.44%

Run 4: Report of TCP Cubic — Data Link

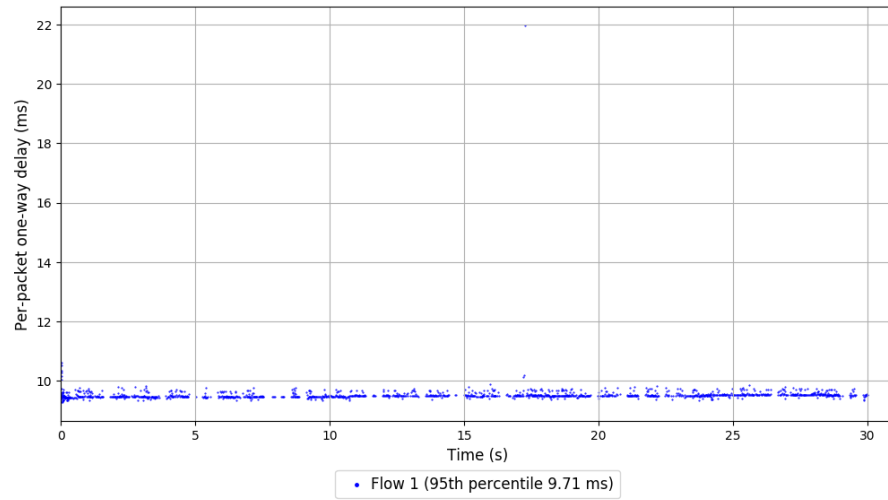
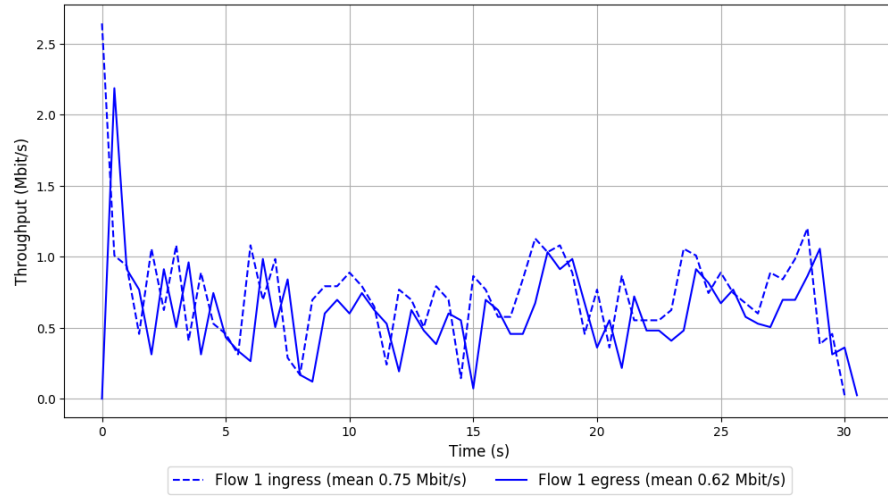


Run 5: Statistics of TCP Cubic

Start at: 2019-07-12 00:41:15
End at: 2019-07-12 00:41:45
Local clock offset: 2.213 ms
Remote clock offset: -6.098 ms

```
# Below is generated by plot.py at 2019-07-12 01:02:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 9.707 ms
Loss rate: 17.96%
-- Flow 1:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 9.707 ms
Loss rate: 17.96%
```

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-07-11 23:04:48

End at: 2019-07-11 23:05:18

Local clock offset: -0.193 ms

Remote clock offset: 0.034 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.29 Mbit/s

95th percentile per-packet one-way delay: 25.290 ms

Loss rate: 0.48%

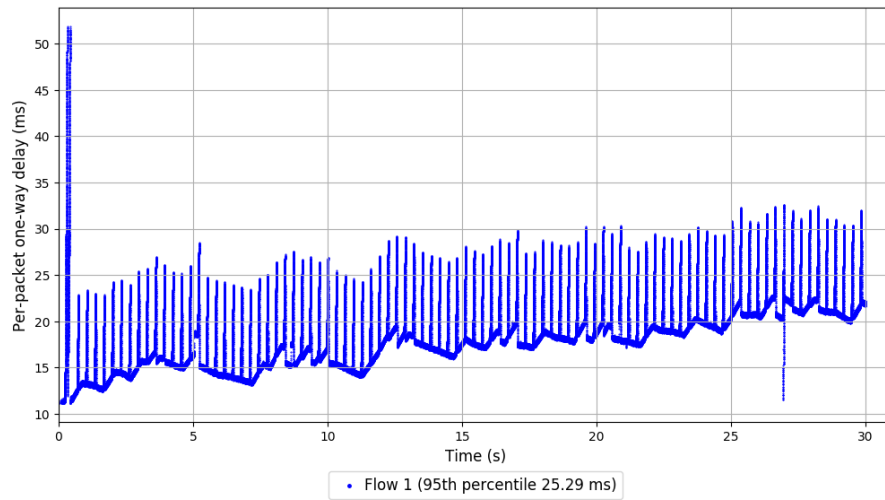
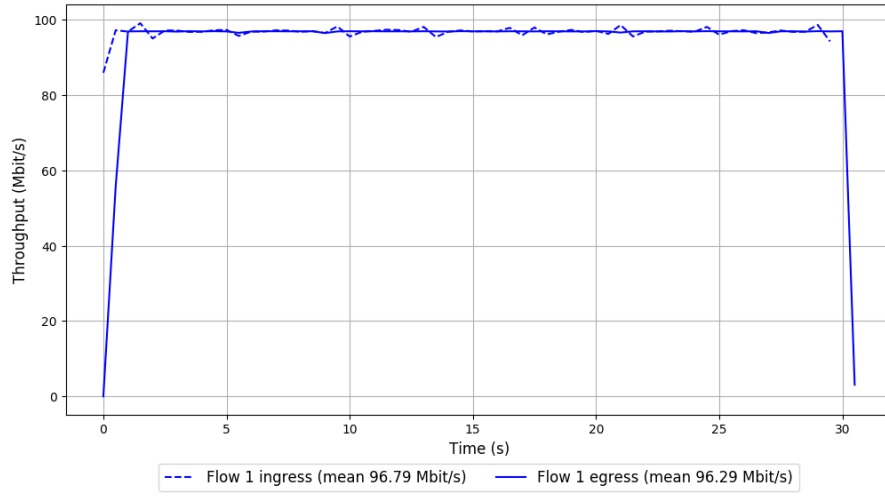
-- Flow 1:

Average throughput: 96.29 Mbit/s

95th percentile per-packet one-way delay: 25.290 ms

Loss rate: 0.48%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-07-11 23:32:15

End at: 2019-07-11 23:32:45

Local clock offset: 0.862 ms

Remote clock offset: -1.1 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.35 Mbit/s

95th percentile per-packet one-way delay: 22.729 ms

Loss rate: 0.36%

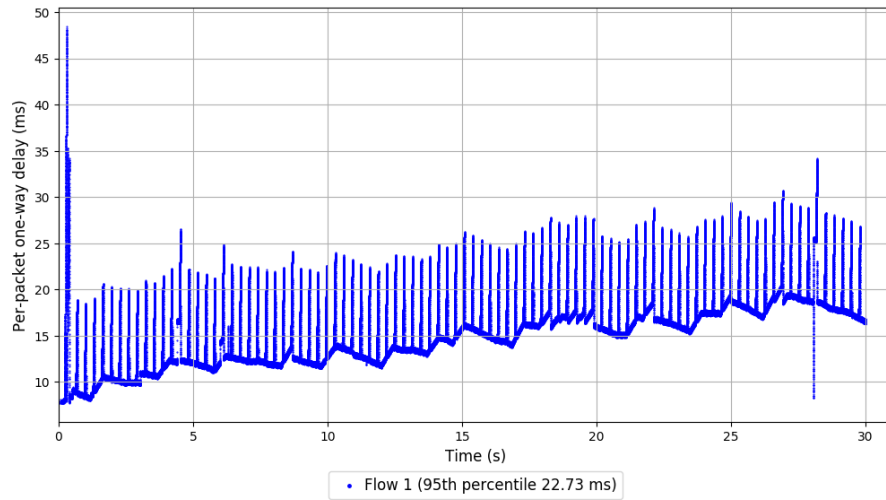
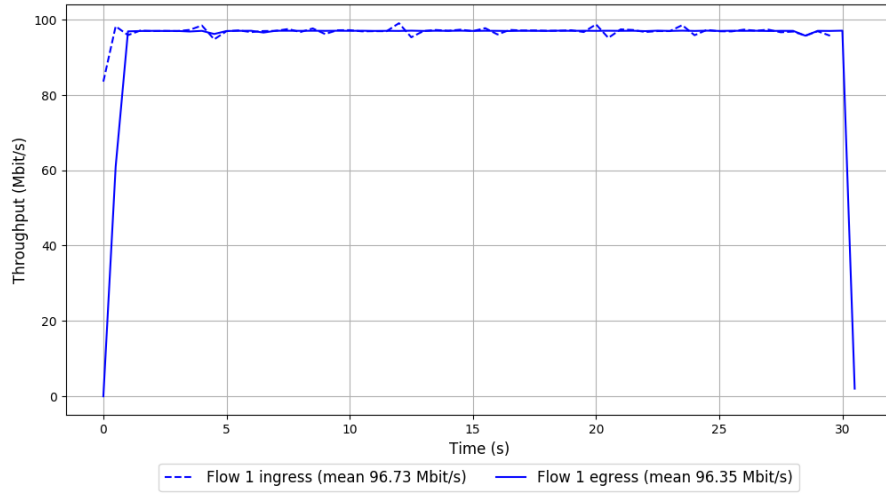
-- Flow 1:

Average throughput: 96.35 Mbit/s

95th percentile per-packet one-way delay: 22.729 ms

Loss rate: 0.36%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

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

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

Local clock offset: 5.479 ms

Remote clock offset: -1.333 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.28 Mbit/s

95th percentile per-packet one-way delay: 22.973 ms

Loss rate: 0.45%

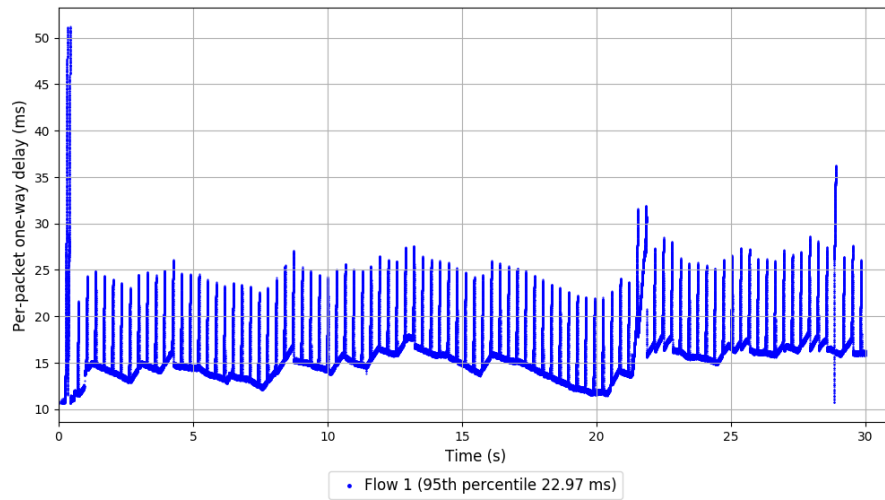
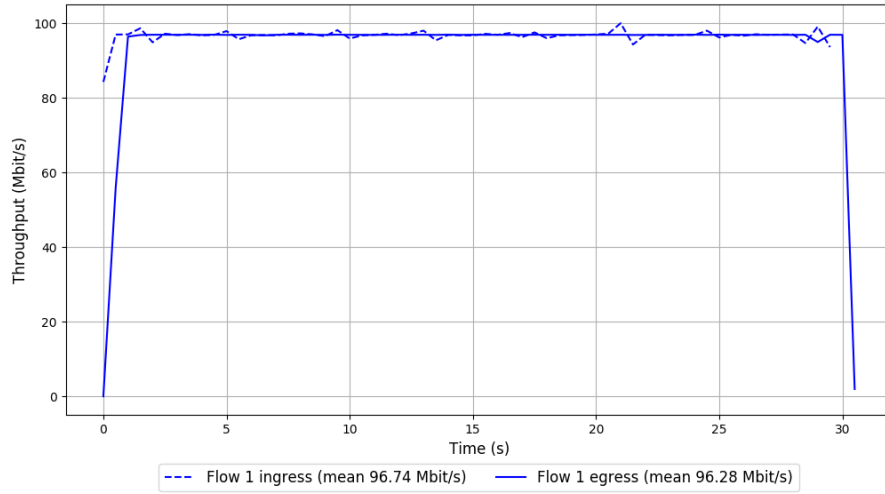
-- Flow 1:

Average throughput: 96.28 Mbit/s

95th percentile per-packet one-way delay: 22.973 ms

Loss rate: 0.45%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-07-12 00:27:24

End at: 2019-07-12 00:27:54

Local clock offset: 0.02 ms

Remote clock offset: -2.541 ms

Below is generated by plot.py at 2019-07-12 01:02:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.23 Mbit/s

95th percentile per-packet one-way delay: 25.281 ms

Loss rate: 0.46%

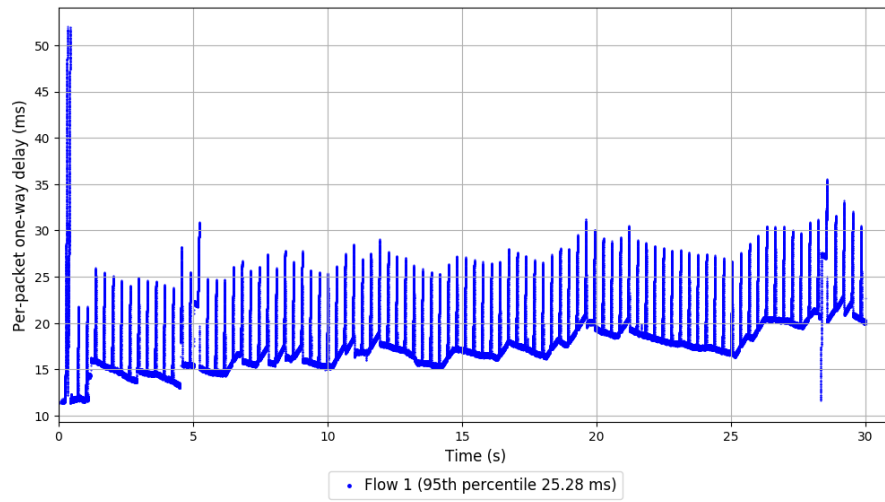
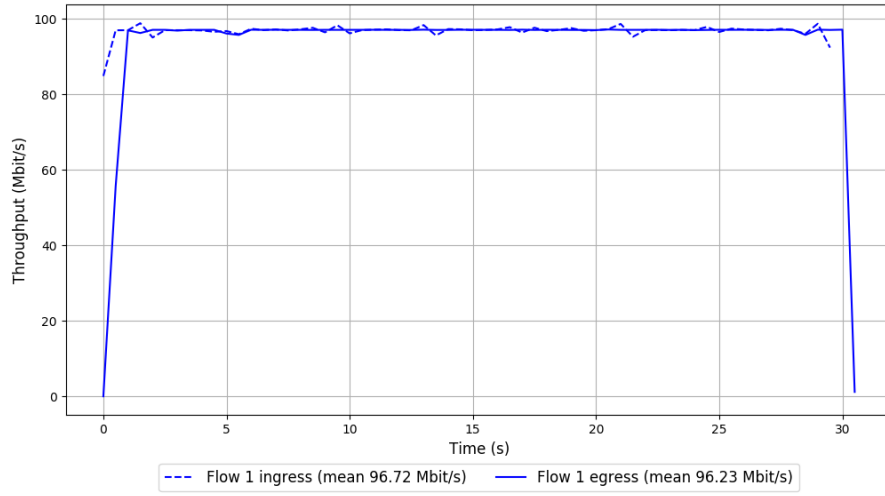
-- Flow 1:

Average throughput: 96.23 Mbit/s

95th percentile per-packet one-way delay: 25.281 ms

Loss rate: 0.46%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-07-12 00:54:58

End at: 2019-07-12 00:55:28

Local clock offset: 2.988 ms

Remote clock offset: -5.93 ms

Below is generated by plot.py at 2019-07-12 01:02:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.19 Mbit/s

95th percentile per-packet one-way delay: 22.322 ms

Loss rate: 0.39%

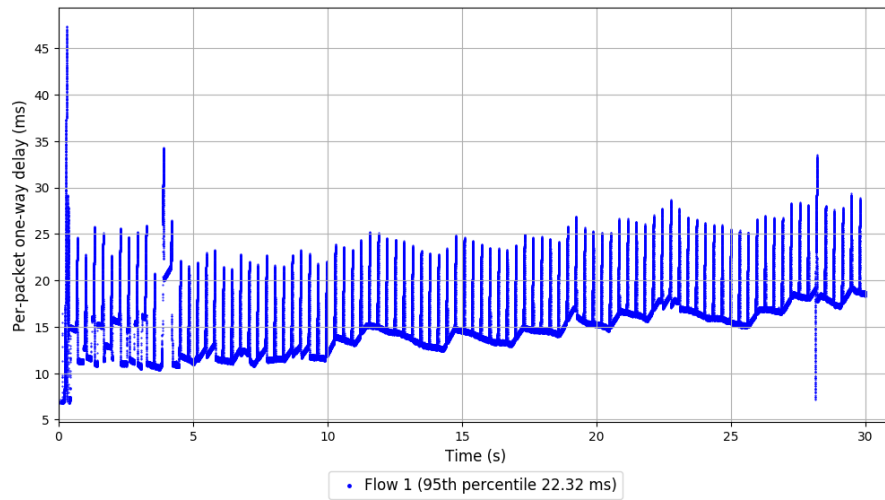
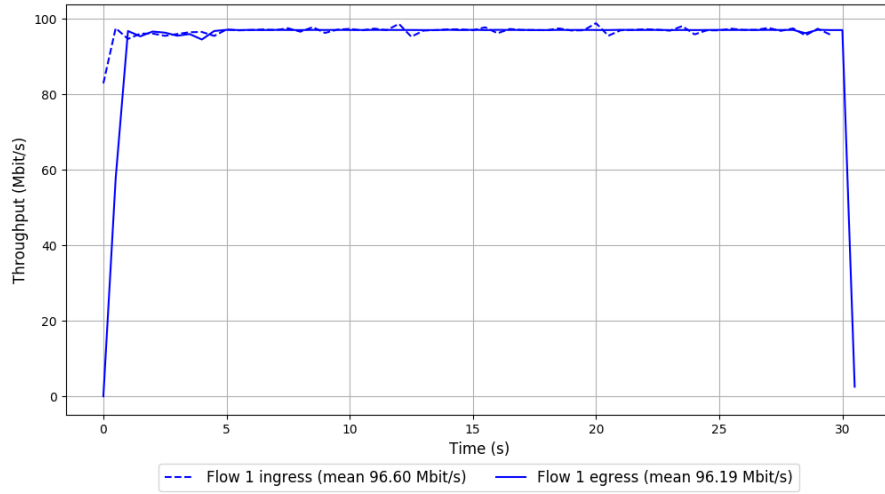
-- Flow 1:

Average throughput: 96.19 Mbit/s

95th percentile per-packet one-way delay: 22.322 ms

Loss rate: 0.39%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-07-11 22:53:14

End at: 2019-07-11 22:53:44

Local clock offset: -2.095 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2019-07-12 01:02:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 50.022 ms

Loss rate: 41.14%

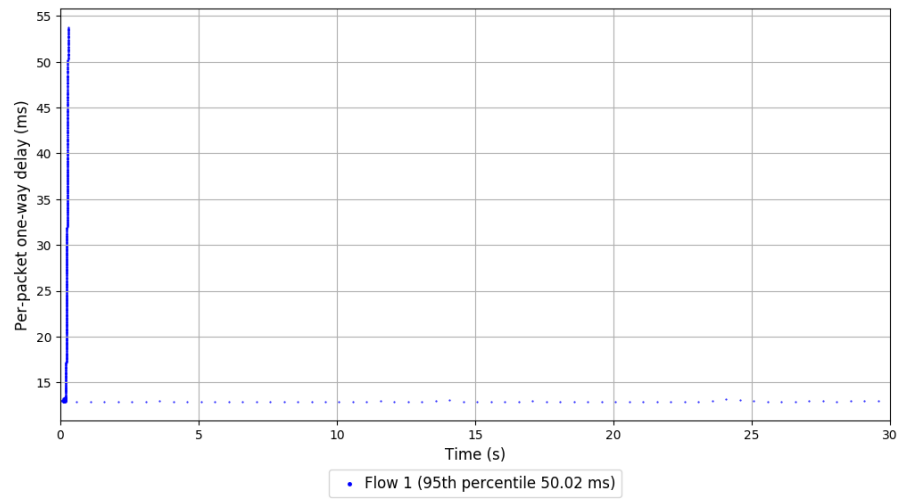
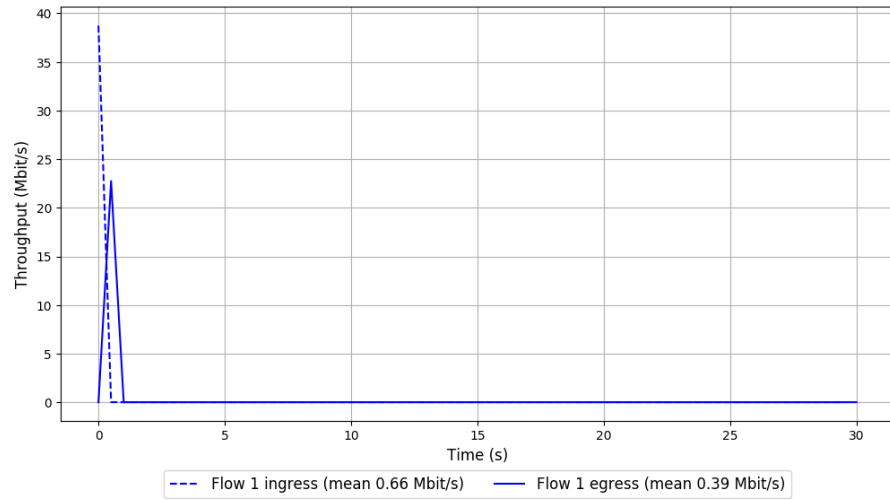
-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 50.022 ms

Loss rate: 41.14%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

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

End at: 2019-07-11 23:21:23

Local clock offset: -0.218 ms

Remote clock offset: 1.118 ms

Below is generated by plot.py at 2019-07-12 01:02:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 49.112 ms

Loss rate: 41.08%

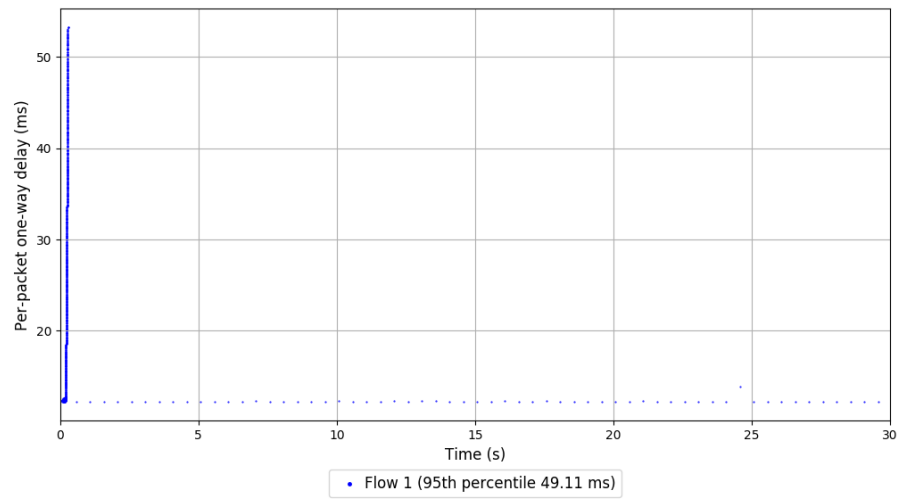
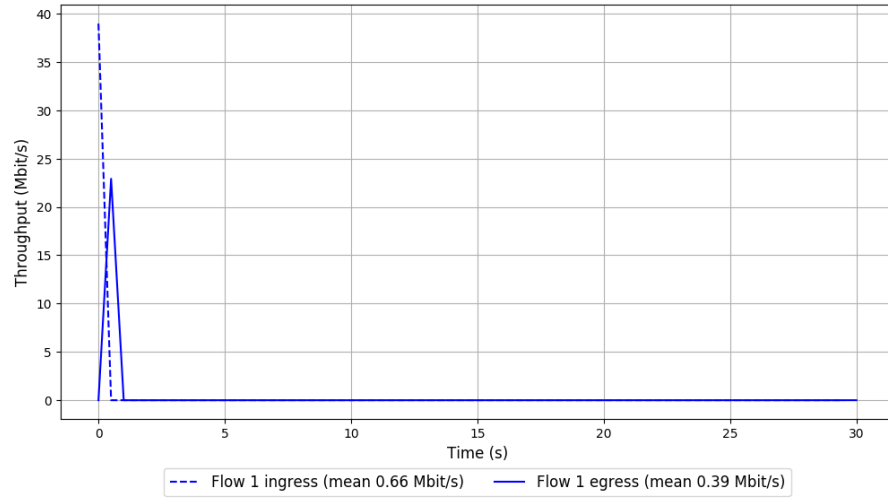
-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 49.112 ms

Loss rate: 41.08%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-07-11 23:48:38

End at: 2019-07-11 23:49:08

Local clock offset: 4.143 ms

Remote clock offset: -0.877 ms

Below is generated by plot.py at 2019-07-12 01:02:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 45.493 ms

Loss rate: 40.87%

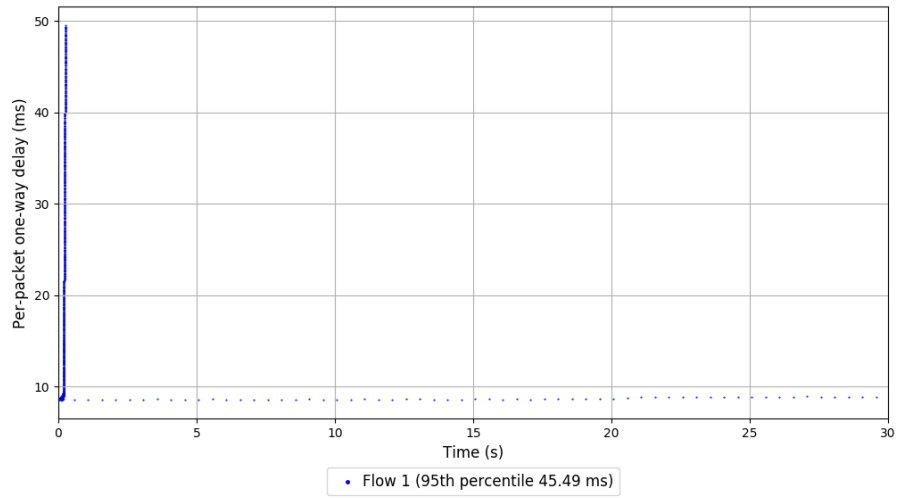
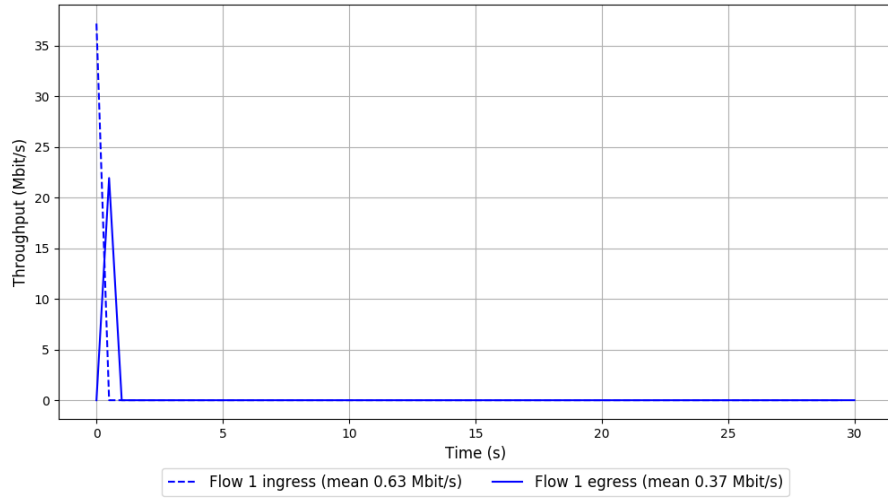
-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 45.493 ms

Loss rate: 40.87%

Run 3: Report of FillP-Sheep — Data Link

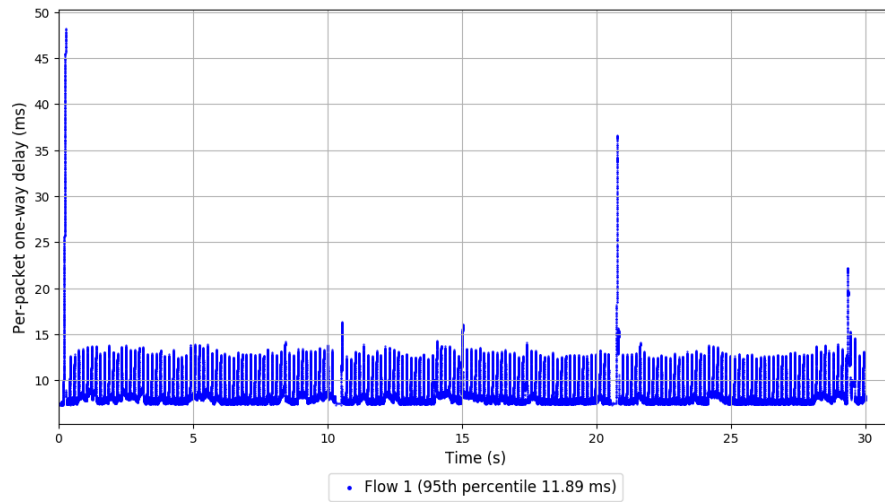
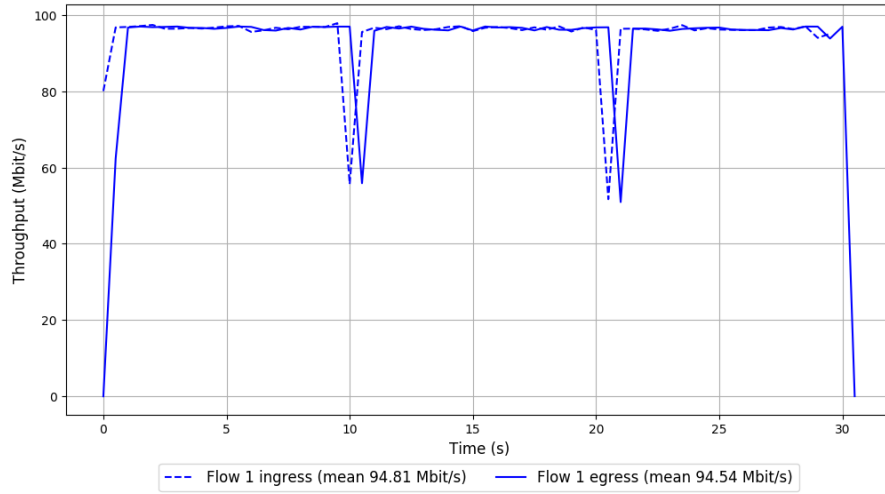


Run 4: Statistics of FillP-Sheep

Start at: 2019-07-12 00:16:02
End at: 2019-07-12 00:16:32
Local clock offset: -0.189 ms
Remote clock offset: -3.428 ms

Below is generated by plot.py at 2019-07-12 01:02:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.54 Mbit/s
95th percentile per-packet one-way delay: 11.888 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 94.54 Mbit/s
95th percentile per-packet one-way delay: 11.888 ms
Loss rate: 0.28%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-07-12 00:43:25

End at: 2019-07-12 00:43:56

Local clock offset: 1.768 ms

Remote clock offset: -6.145 ms

Below is generated by plot.py at 2019-07-12 01:02:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.16 Mbit/s

95th percentile per-packet one-way delay: 13.328 ms

Loss rate: 0.28%

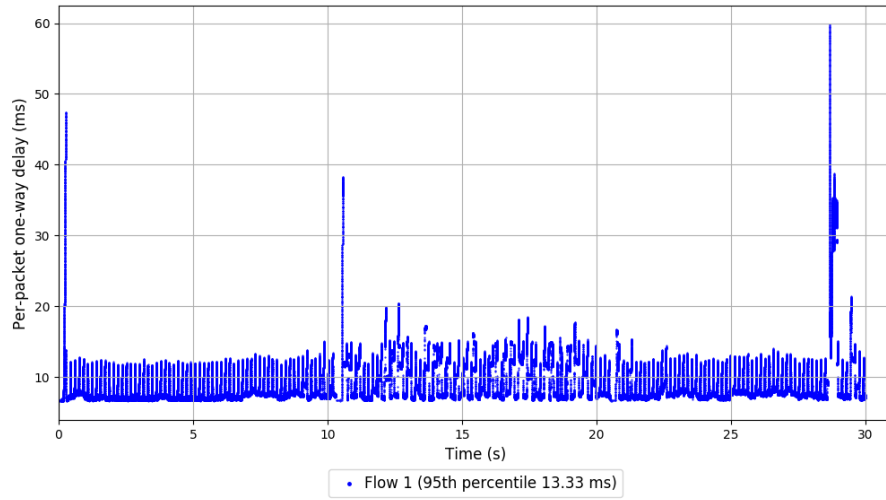
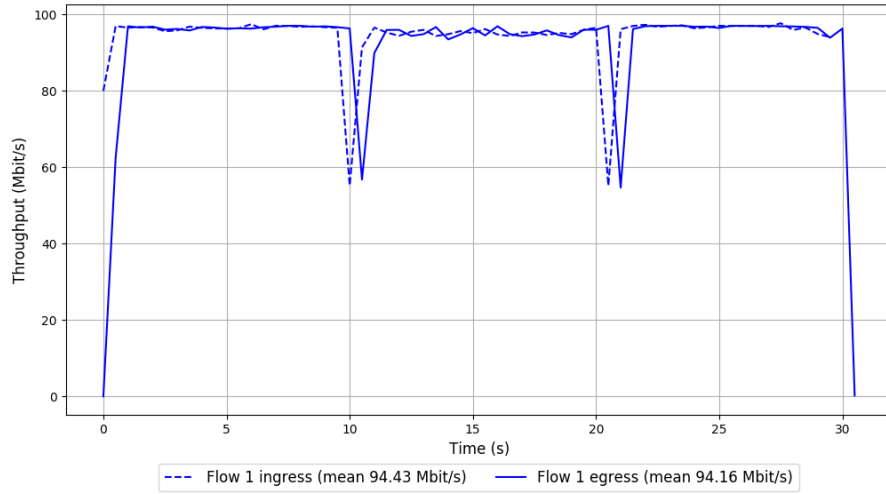
-- Flow 1:

Average throughput: 94.16 Mbit/s

95th percentile per-packet one-way delay: 13.328 ms

Loss rate: 0.28%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-07-11 22:49:41
End at: 2019-07-11 22:50:11
Local clock offset: -1.389 ms
Remote clock offset: -0.395 ms

Below is generated by plot.py at 2019-07-12 01:03:19

Datalink statistics

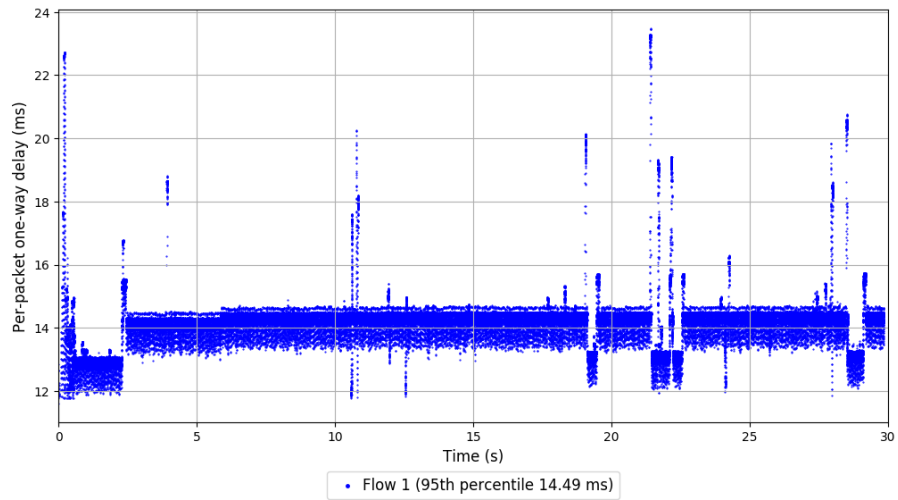
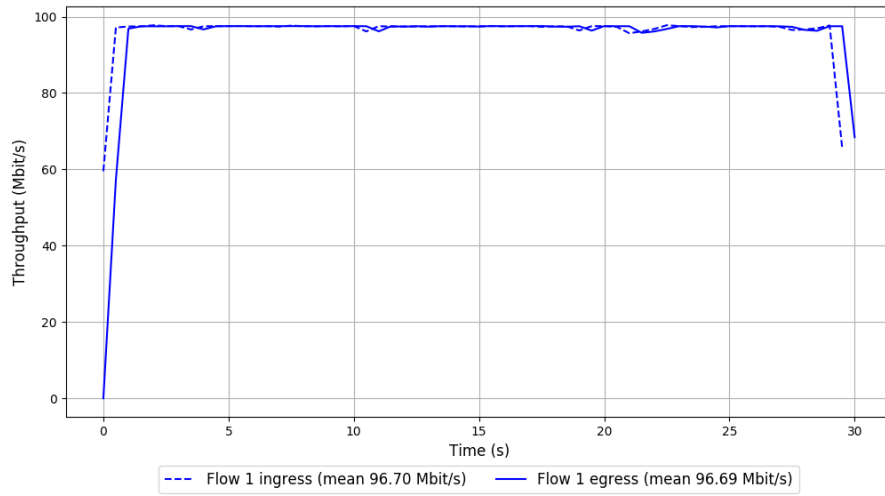
-- Total of 1 flow:

Average throughput: 96.69 Mbit/s
95th percentile per-packet one-way delay: 14.493 ms
Loss rate: 0.00%

-- Flow 1:

Average throughput: 96.69 Mbit/s
95th percentile per-packet one-way delay: 14.493 ms
Loss rate: 0.00%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-07-11 23:17:20

End at: 2019-07-11 23:17:50

Local clock offset: -0.997 ms

Remote clock offset: 0.569 ms

Below is generated by plot.py at 2019-07-12 01:03:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.52 Mbit/s

95th percentile per-packet one-way delay: 15.244 ms

Loss rate: 0.00%

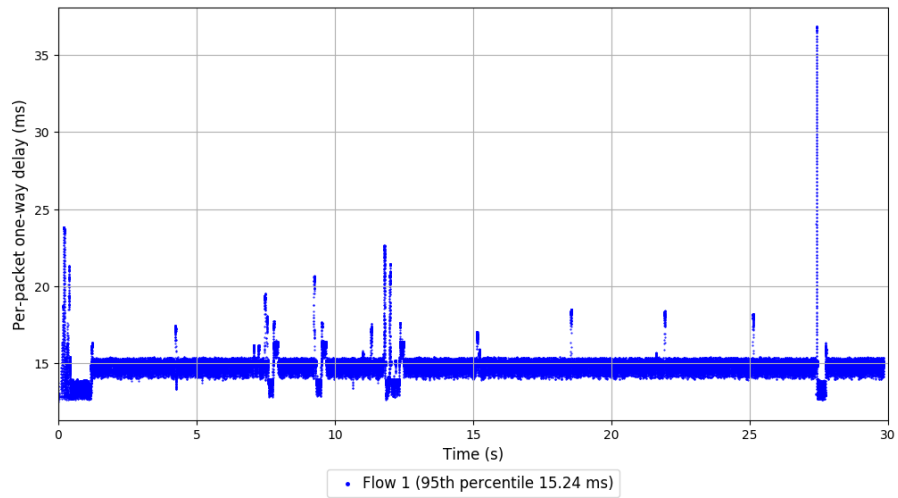
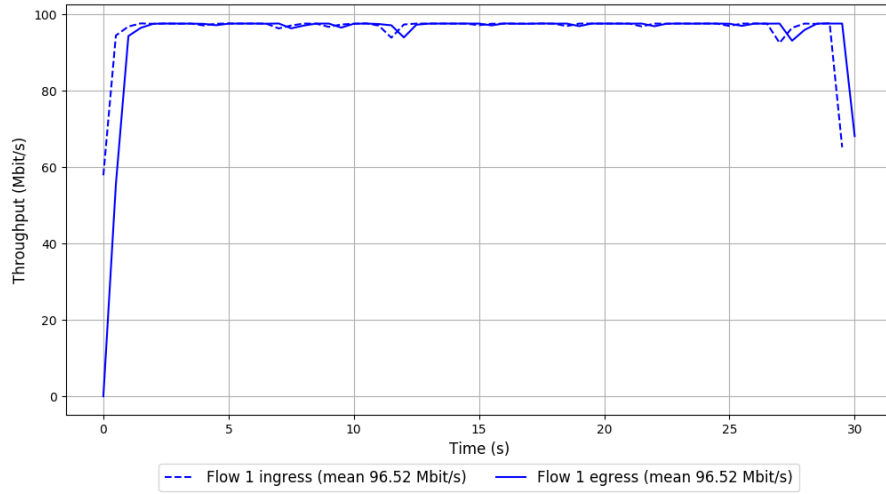
-- Flow 1:

Average throughput: 96.52 Mbit/s

95th percentile per-packet one-way delay: 15.244 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-07-11 23:45:02

End at: 2019-07-11 23:45:32

Local clock offset: 3.856 ms

Remote clock offset: -0.498 ms

Below is generated by plot.py at 2019-07-12 01:03:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.88 Mbit/s

95th percentile per-packet one-way delay: 10.962 ms

Loss rate: 0.00%

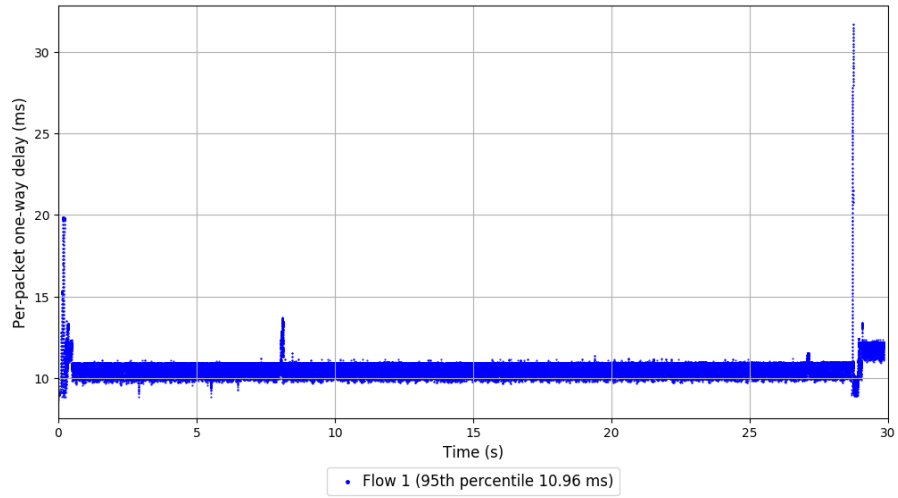
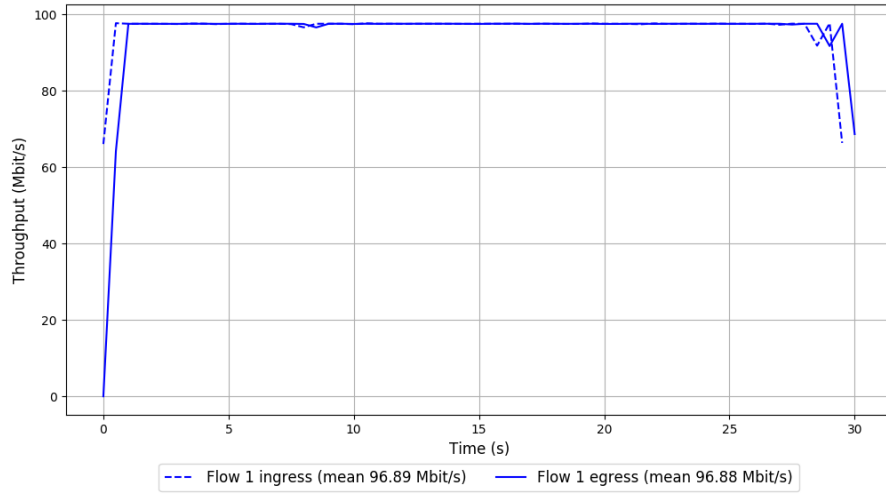
-- Flow 1:

Average throughput: 96.88 Mbit/s

95th percentile per-packet one-way delay: 10.962 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

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

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

Local clock offset: 1.563 ms

Remote clock offset: -3.549 ms

Below is generated by plot.py at 2019-07-12 01:03:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.47 Mbit/s

95th percentile per-packet one-way delay: 11.577 ms

Loss rate: 0.00%

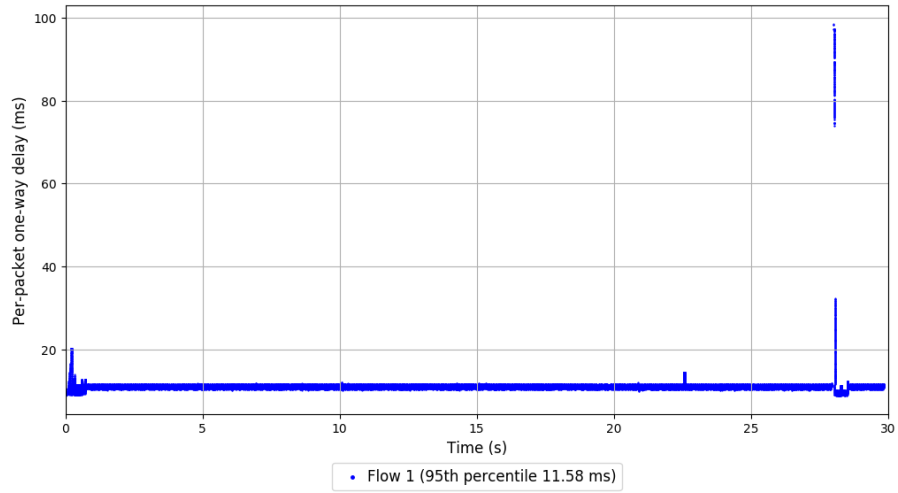
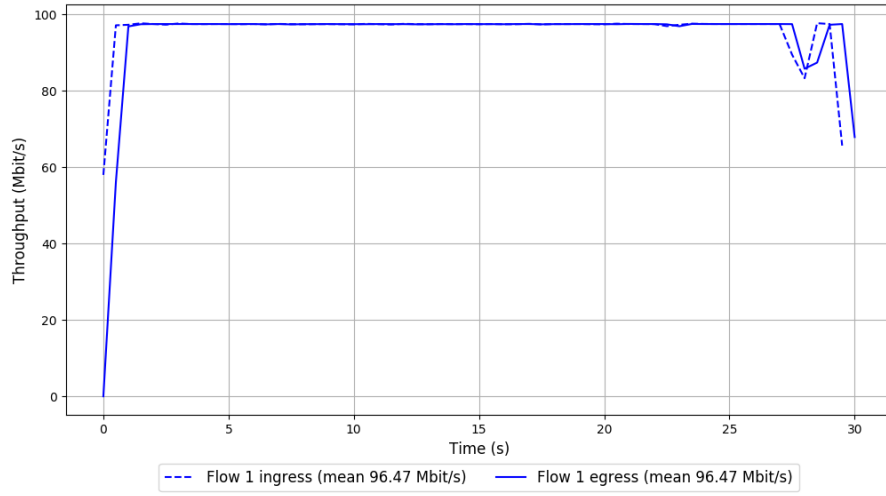
-- Flow 1:

Average throughput: 96.47 Mbit/s

95th percentile per-packet one-way delay: 11.577 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

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

End at: 2019-07-12 00:40:30

Local clock offset: 1.978 ms

Remote clock offset: -4.333 ms

Below is generated by plot.py at 2019-07-12 01:03:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.76 Mbit/s

95th percentile per-packet one-way delay: 13.541 ms

Loss rate: 0.00%

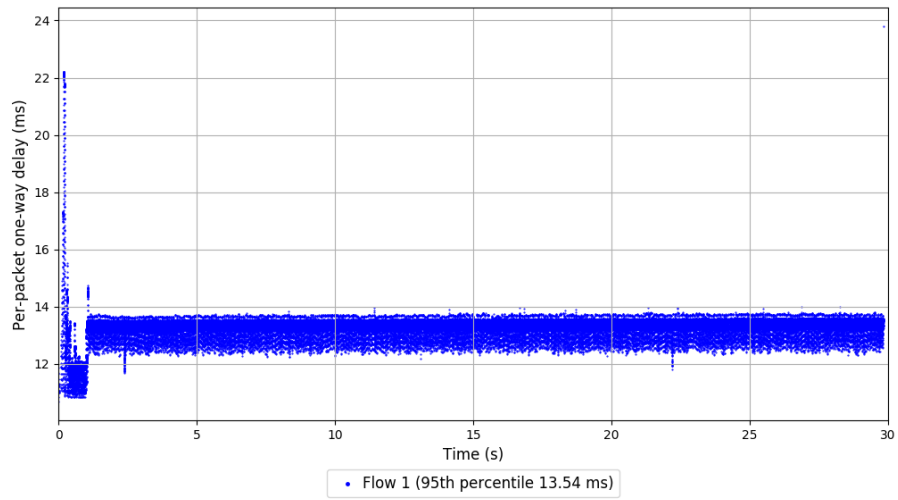
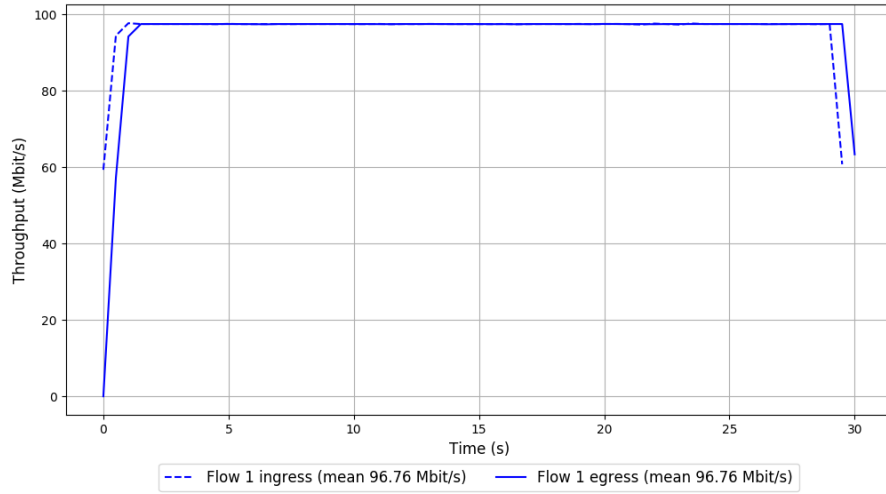
-- Flow 1:

Average throughput: 96.76 Mbit/s

95th percentile per-packet one-way delay: 13.541 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link

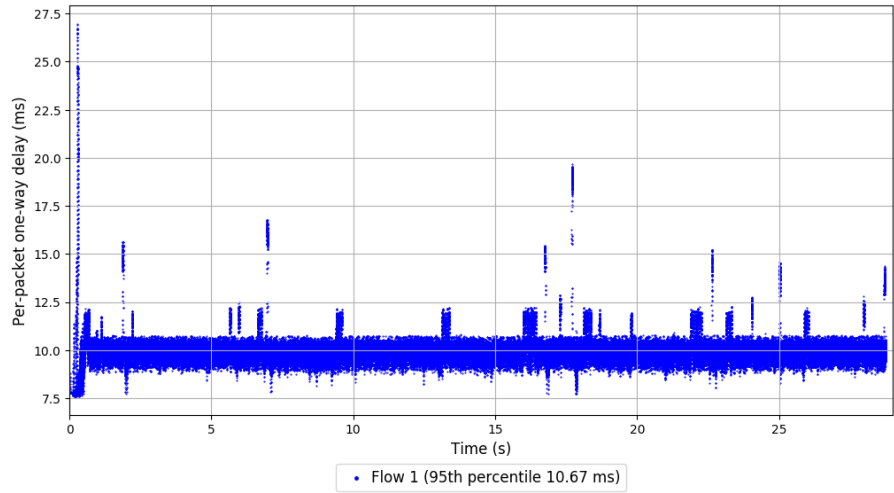
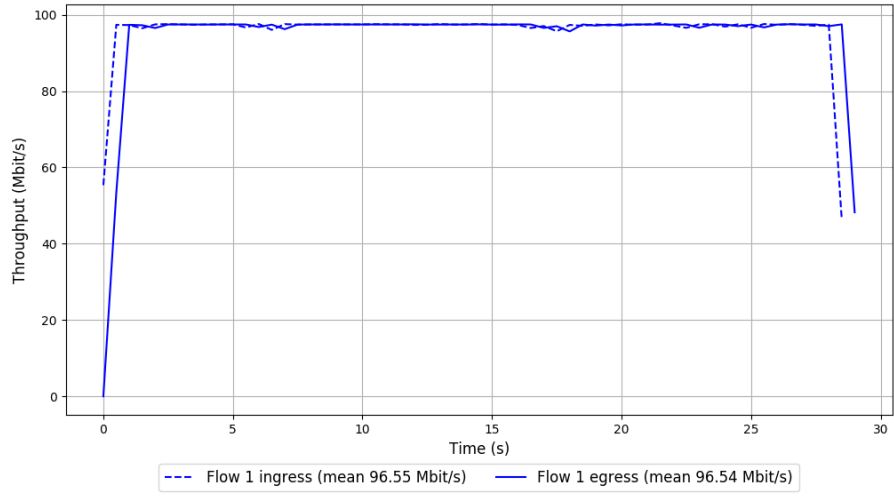


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-07-11 22:47:19
End at: 2019-07-11 22:47:49
Local clock offset: -2.142 ms
Remote clock offset: -2.079 ms

Below is generated by plot.py at 2019-07-12 01:03:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.54 Mbit/s
95th percentile per-packet one-way delay: 10.674 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.54 Mbit/s
95th percentile per-packet one-way delay: 10.674 ms
Loss rate: 0.00%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-07-11 23:15:02

End at: 2019-07-11 23:15:32

Local clock offset: -0.901 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2019-07-12 01:03:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.45 Mbit/s

95th percentile per-packet one-way delay: 14.971 ms

Loss rate: 0.00%

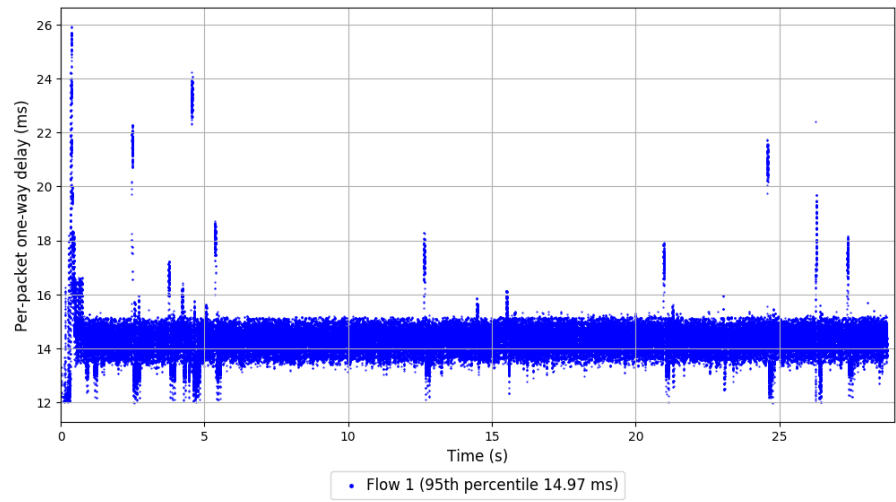
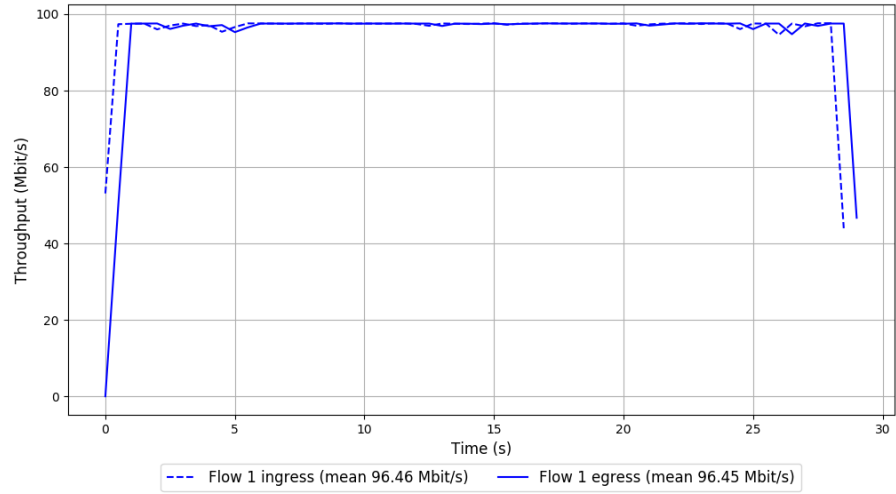
-- Flow 1:

Average throughput: 96.45 Mbit/s

95th percentile per-packet one-way delay: 14.971 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesC3 — Data Link

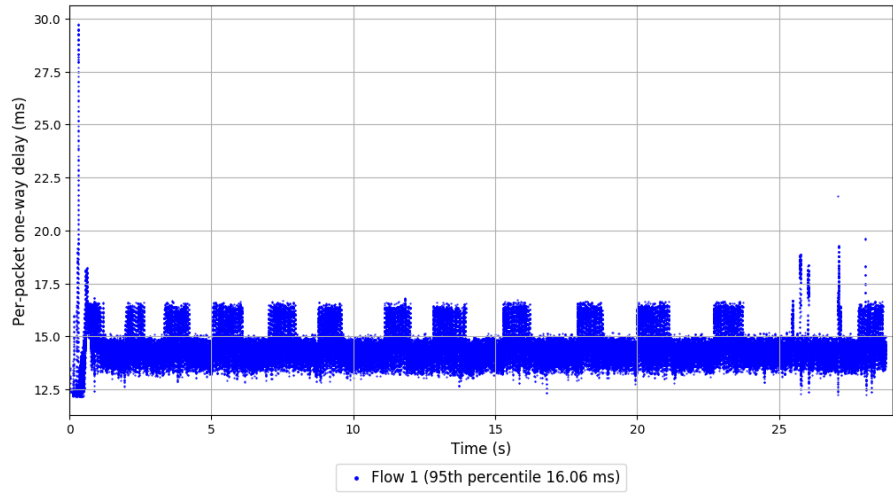
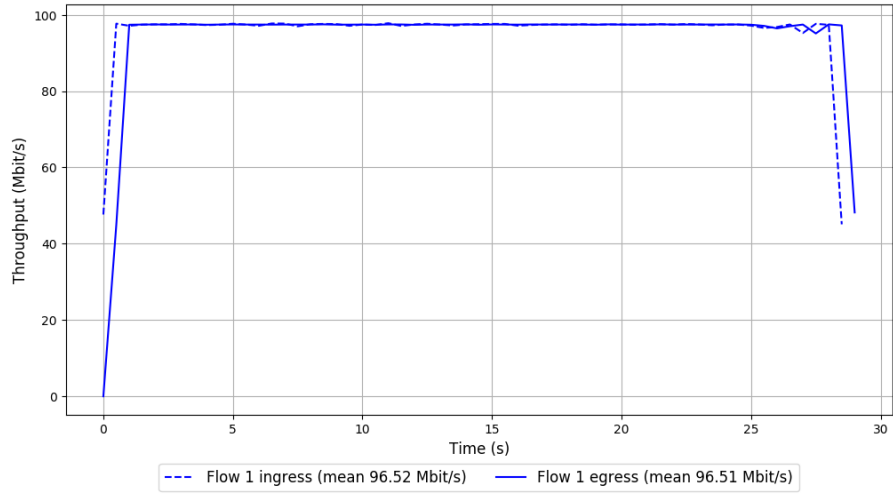


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-07-11 23:42:40
End at: 2019-07-11 23:43:10
Local clock offset: 3.272 ms
Remote clock offset: -0.548 ms

Below is generated by plot.py at 2019-07-12 01:03:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.51 Mbit/s
95th percentile per-packet one-way delay: 16.056 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.51 Mbit/s
95th percentile per-packet one-way delay: 16.056 ms
Loss rate: 0.00%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-07-12 00:10:11

End at: 2019-07-12 00:10:41

Local clock offset: 1.26 ms

Remote clock offset: -1.04 ms

Below is generated by plot.py at 2019-07-12 01:04:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.55 Mbit/s

95th percentile per-packet one-way delay: 15.888 ms

Loss rate: 0.00%

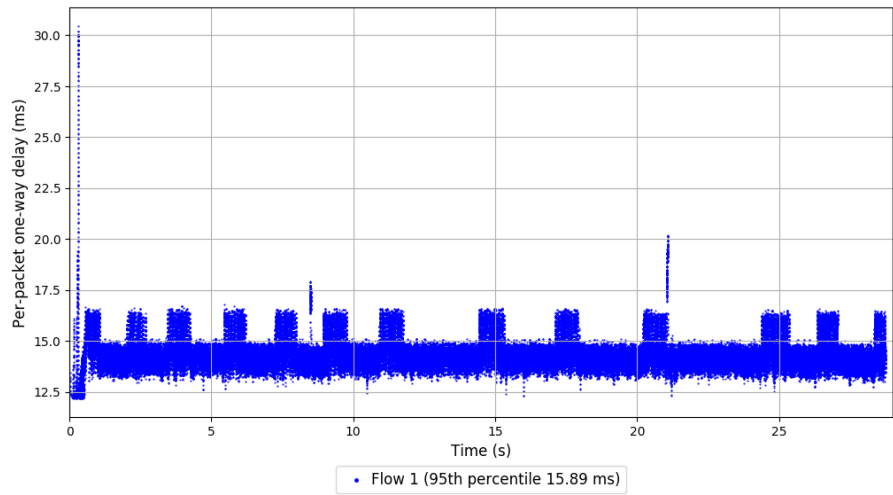
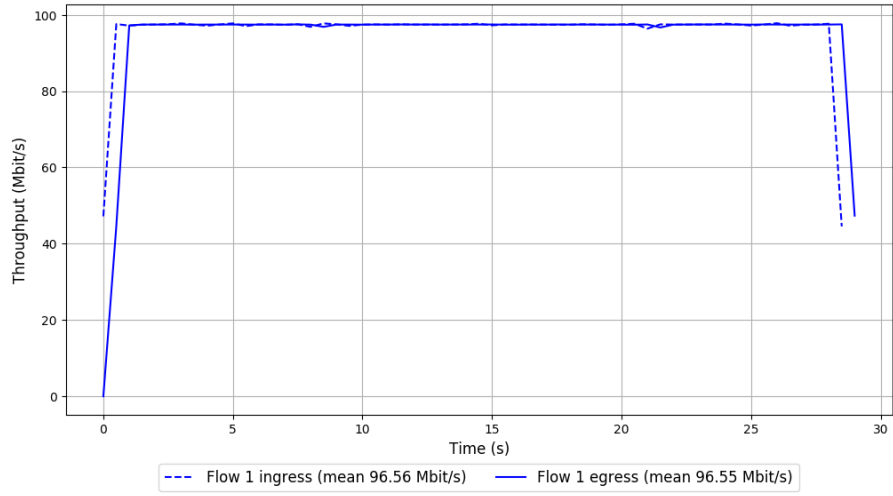
-- Flow 1:

Average throughput: 96.55 Mbit/s

95th percentile per-packet one-way delay: 15.888 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesC3 — Data Link

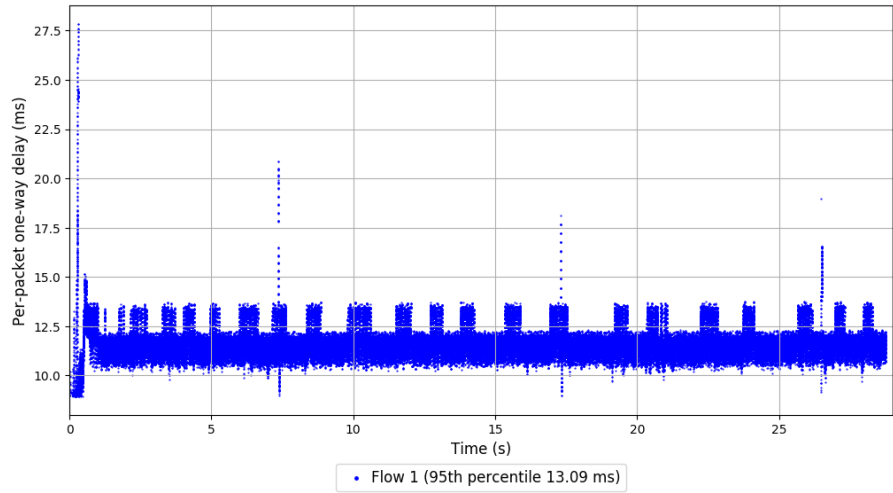
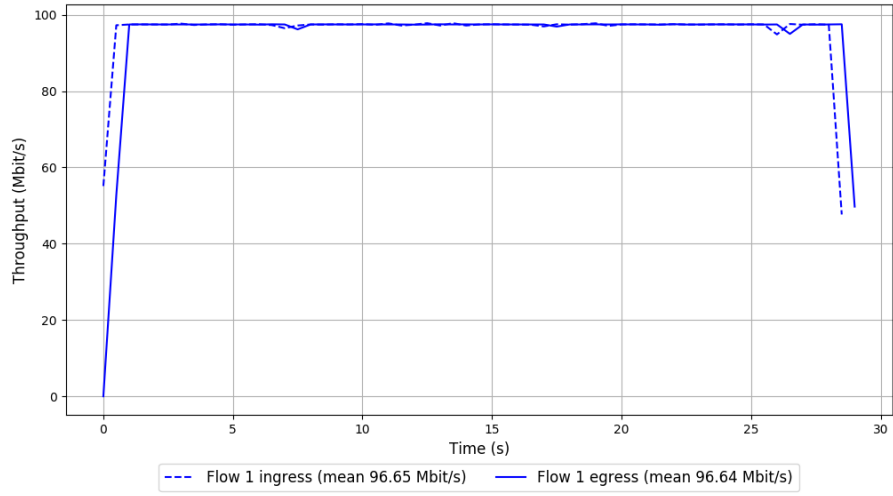


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-07-12 00:37:39
End at: 2019-07-12 00:38:09
Local clock offset: 1.687 ms
Remote clock offset: -2.861 ms

Below is generated by plot.py at 2019-07-12 01:04:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.64 Mbit/s
95th percentile per-packet one-way delay: 13.087 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.64 Mbit/s
95th percentile per-packet one-way delay: 13.087 ms
Loss rate: 0.00%

Run 5: Report of Indigo-MusesC3 — Data Link

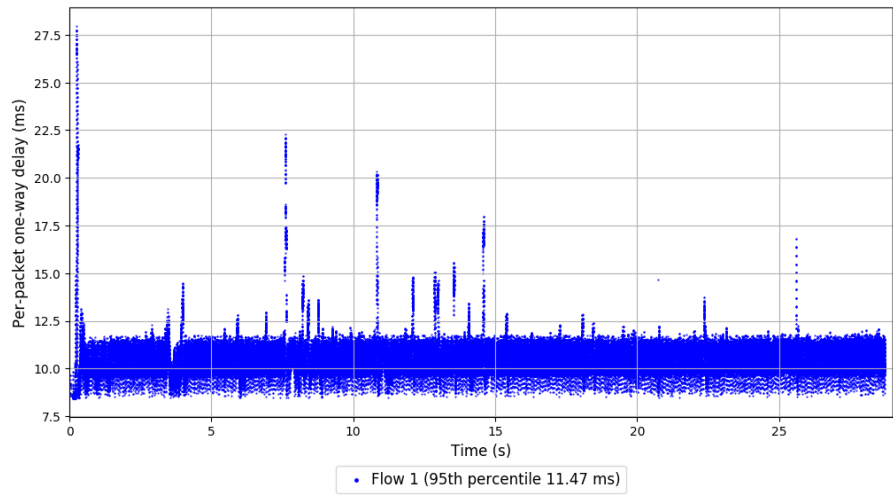
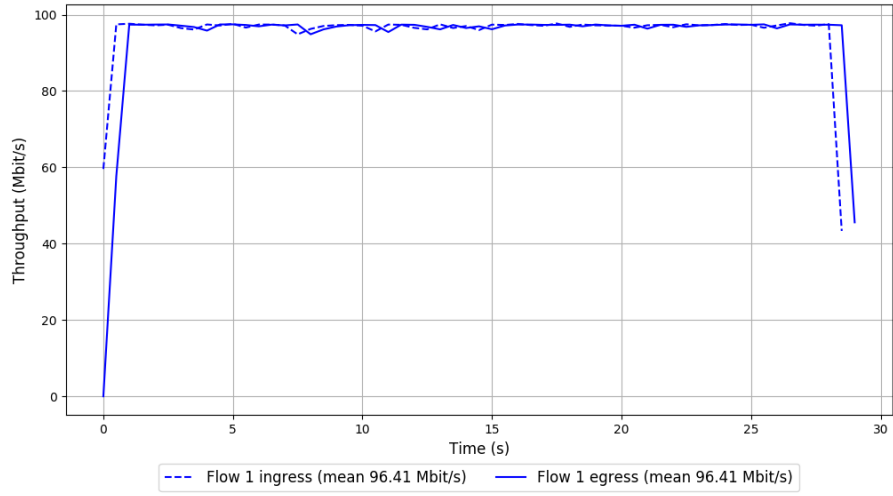


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-07-11 22:40:22
End at: 2019-07-11 22:40:52
Local clock offset: -2.664 ms
Remote clock offset: -0.742 ms

Below is generated by plot.py at 2019-07-12 01:04:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.41 Mbit/s
95th percentile per-packet one-way delay: 11.468 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.41 Mbit/s
95th percentile per-packet one-way delay: 11.468 ms
Loss rate: 0.00%

Run 1: Report of Indigo-MusesC5 — Data Link

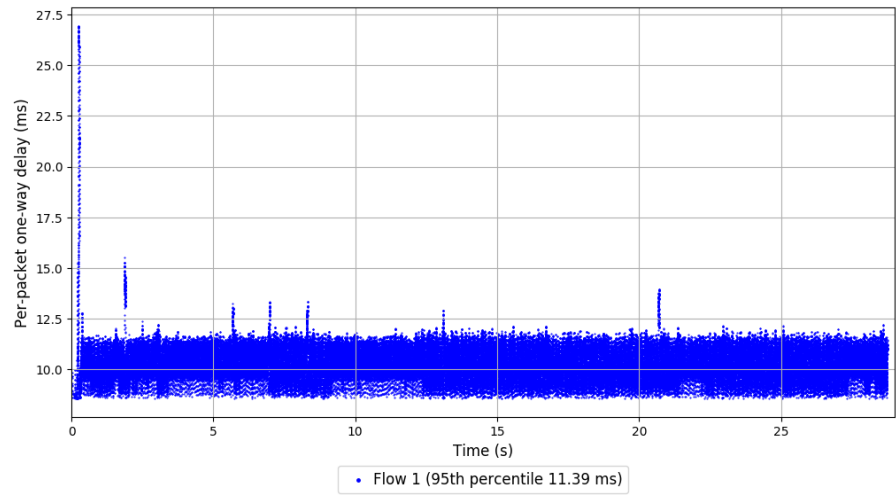
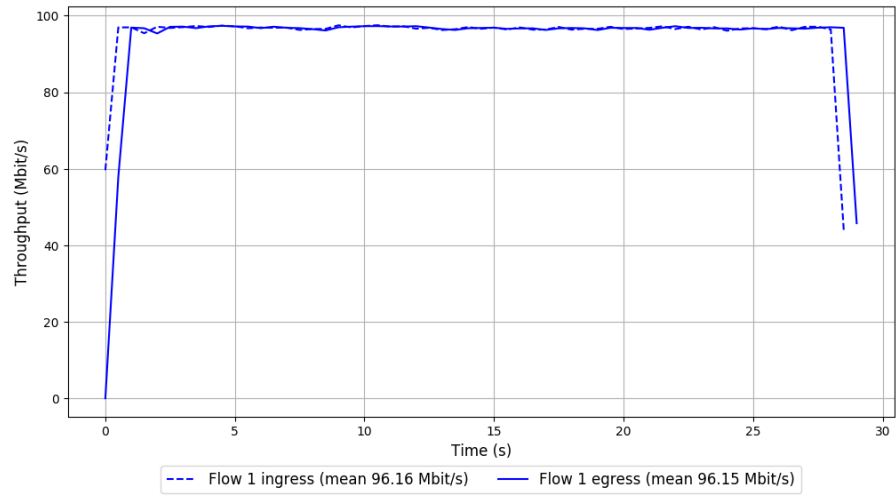


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-07-11 23:08:14
End at: 2019-07-11 23:08:44
Local clock offset: -1.098 ms
Remote clock offset: -0.496 ms

Below is generated by plot.py at 2019-07-12 01:04:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.15 Mbit/s
95th percentile per-packet one-way delay: 11.386 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.15 Mbit/s
95th percentile per-packet one-way delay: 11.386 ms
Loss rate: 0.00%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-07-11 23:35:44

End at: 2019-07-11 23:36:14

Local clock offset: 2.389 ms

Remote clock offset: -1.486 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.66 Mbit/s

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

Loss rate: 0.00%

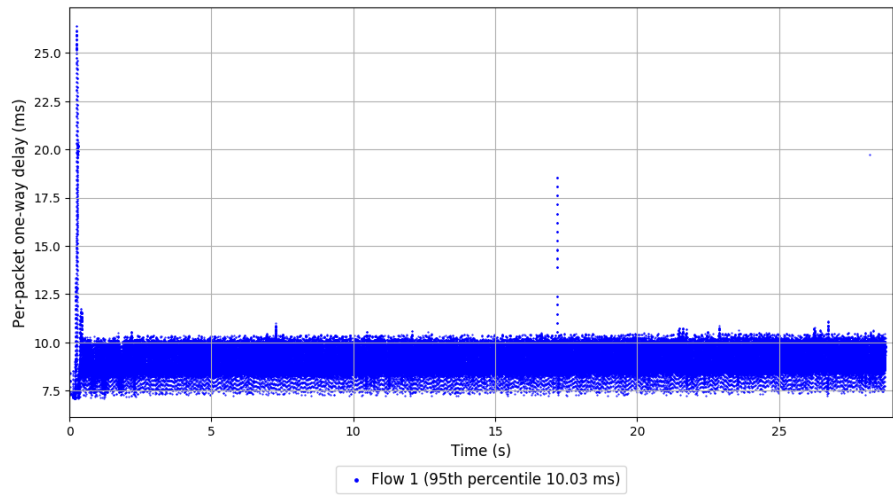
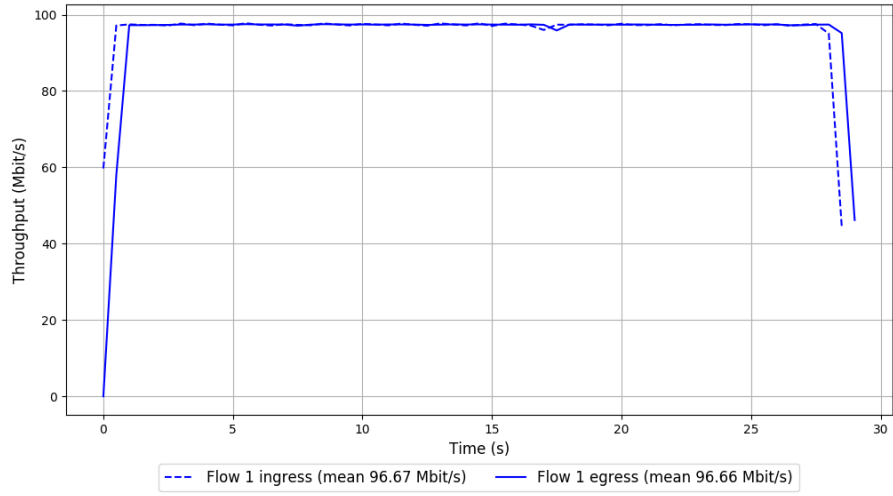
-- Flow 1:

Average throughput: 96.66 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-07-12 00:03:23

End at: 2019-07-12 00:03:53

Local clock offset: 3.16 ms

Remote clock offset: -0.943 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.91 Mbit/s

95th percentile per-packet one-way delay: 14.635 ms

Loss rate: 0.00%

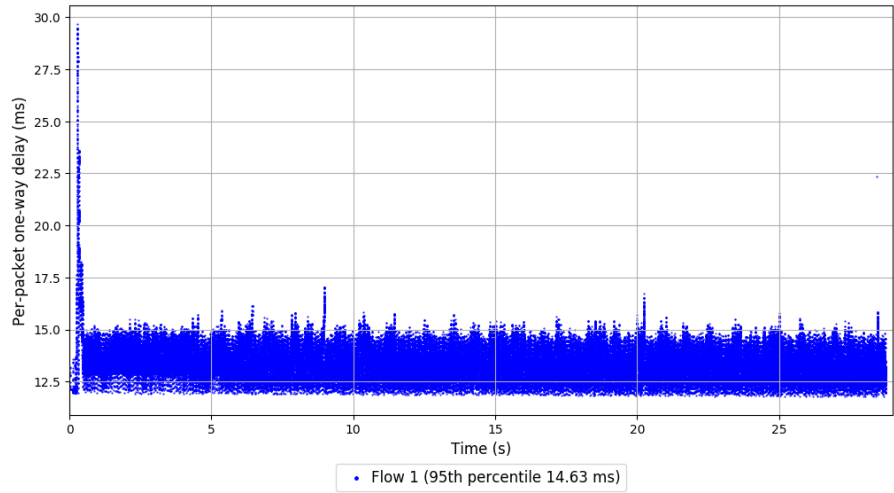
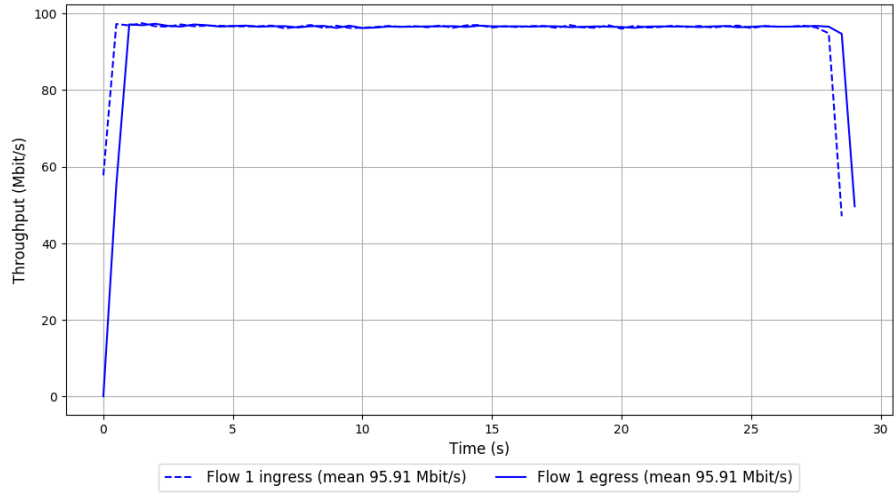
-- Flow 1:

Average throughput: 95.91 Mbit/s

95th percentile per-packet one-way delay: 14.635 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-07-12 00:30:48

End at: 2019-07-12 00:31:18

Local clock offset: 0.405 ms

Remote clock offset: -2.567 ms

Below is generated by plot.py at 2019-07-12 01:04:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.91 Mbit/s

95th percentile per-packet one-way delay: 14.737 ms

Loss rate: 0.00%

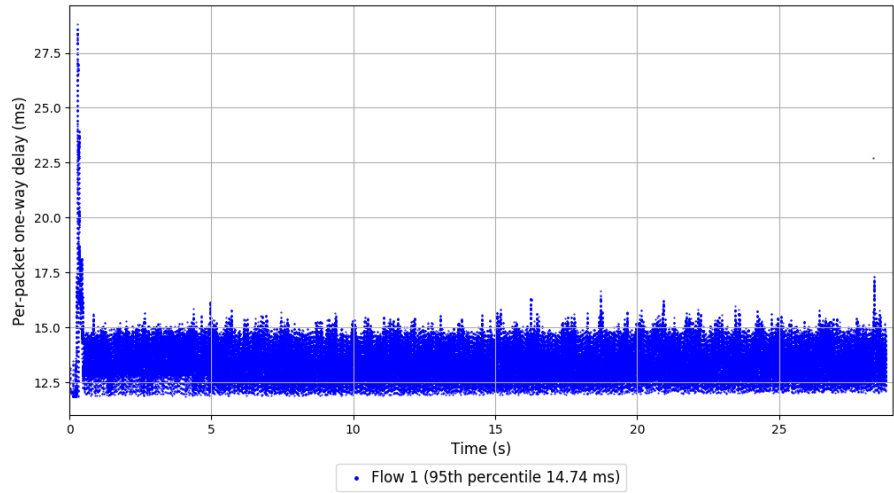
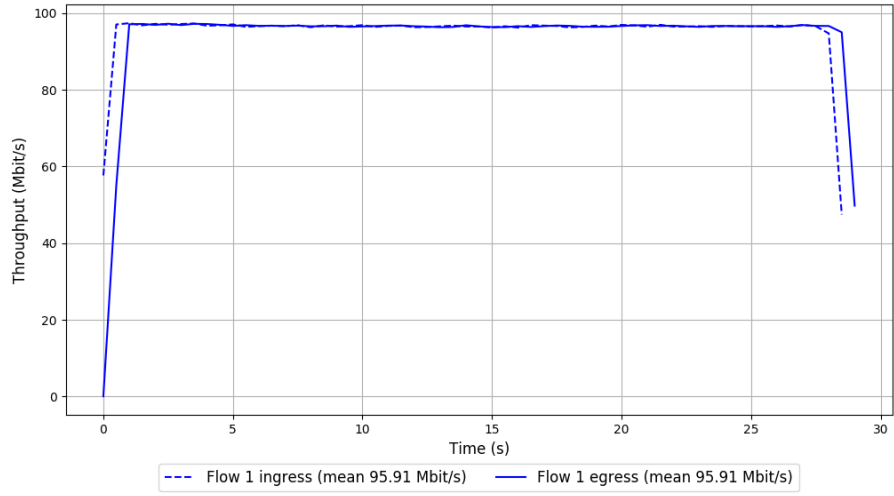
-- Flow 1:

Average throughput: 95.91 Mbit/s

95th percentile per-packet one-way delay: 14.737 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-07-11 22:46:08

End at: 2019-07-11 22:46:38

Local clock offset: -1.546 ms

Remote clock offset: -1.456 ms

Below is generated by plot.py at 2019-07-12 01:04:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.72 Mbit/s

95th percentile per-packet one-way delay: 13.411 ms

Loss rate: 0.00%

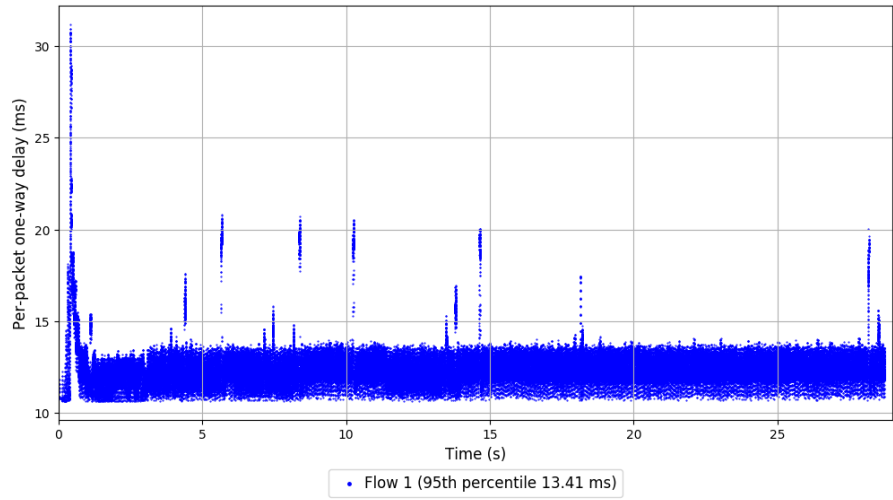
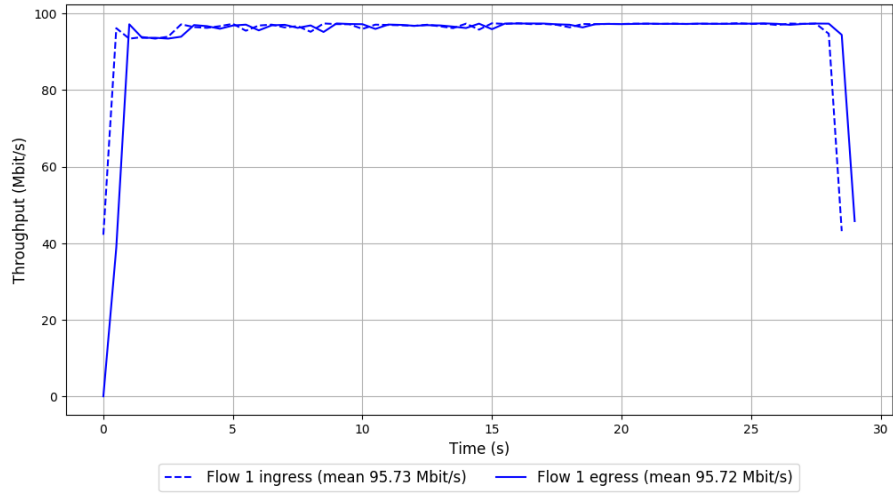
-- Flow 1:

Average throughput: 95.72 Mbit/s

95th percentile per-packet one-way delay: 13.411 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-07-11 23:13:52

End at: 2019-07-11 23:14:22

Local clock offset: -1.916 ms

Remote clock offset: -0.134 ms

Below is generated by plot.py at 2019-07-12 01:05:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.21 Mbit/s

95th percentile per-packet one-way delay: 12.615 ms

Loss rate: 0.00%

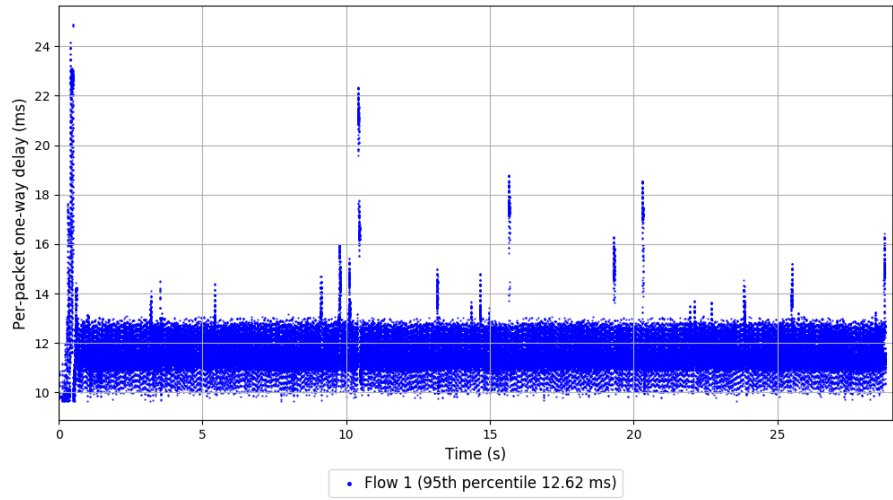
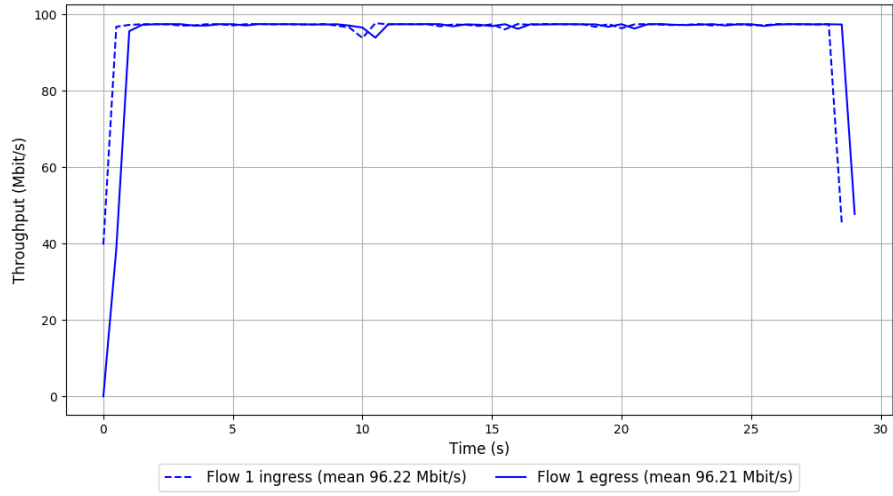
-- Flow 1:

Average throughput: 96.21 Mbit/s

95th percentile per-packet one-way delay: 12.615 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-07-11 23:41:28

End at: 2019-07-11 23:41:58

Local clock offset: 4.045 ms

Remote clock offset: -1.606 ms

Below is generated by plot.py at 2019-07-12 01:05:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.02 Mbit/s

95th percentile per-packet one-way delay: 9.769 ms

Loss rate: 0.00%

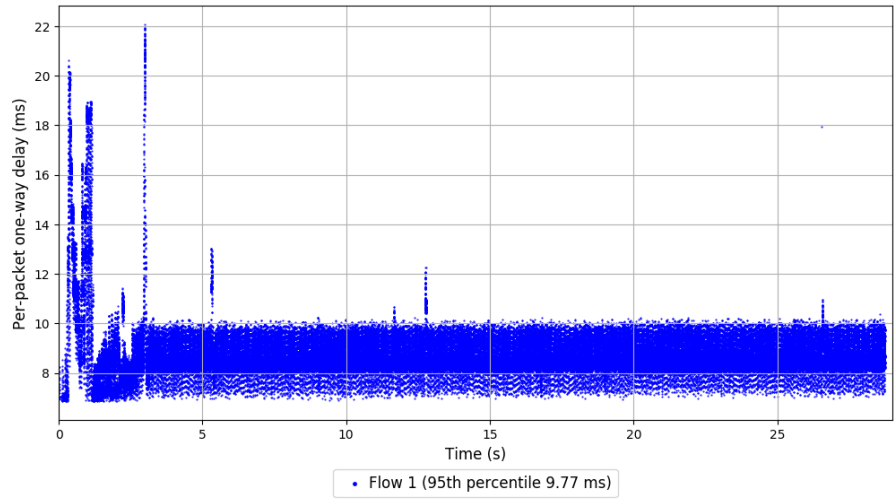
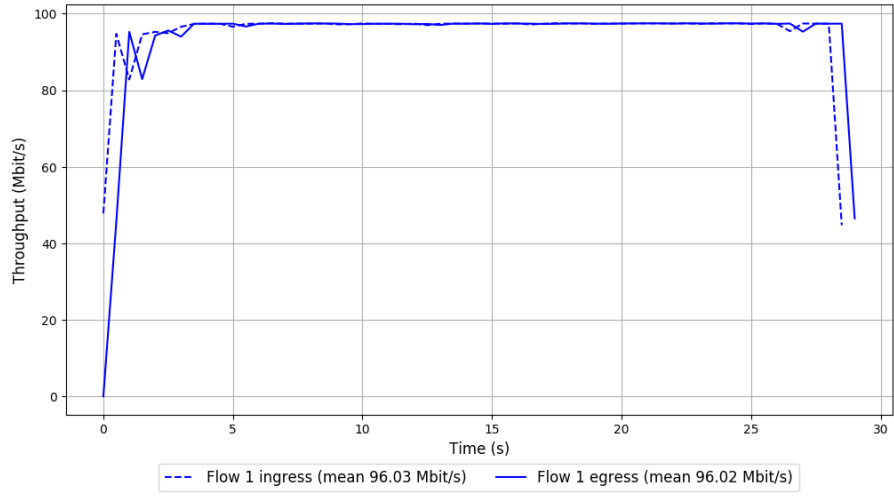
-- Flow 1:

Average throughput: 96.02 Mbit/s

95th percentile per-packet one-way delay: 9.769 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-07-12 00:09:02

End at: 2019-07-12 00:09:32

Local clock offset: 1.039 ms

Remote clock offset: -0.508 ms

Below is generated by plot.py at 2019-07-12 01:05:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.17 Mbit/s

95th percentile per-packet one-way delay: 12.759 ms

Loss rate: 0.00%

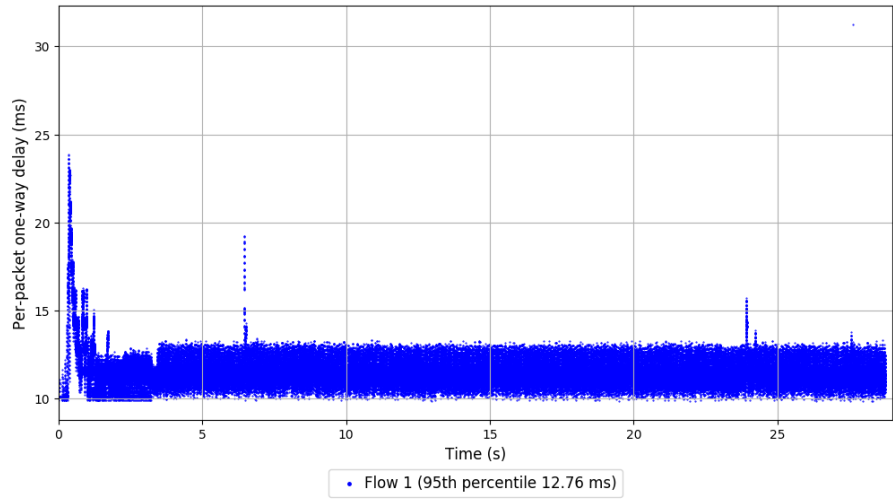
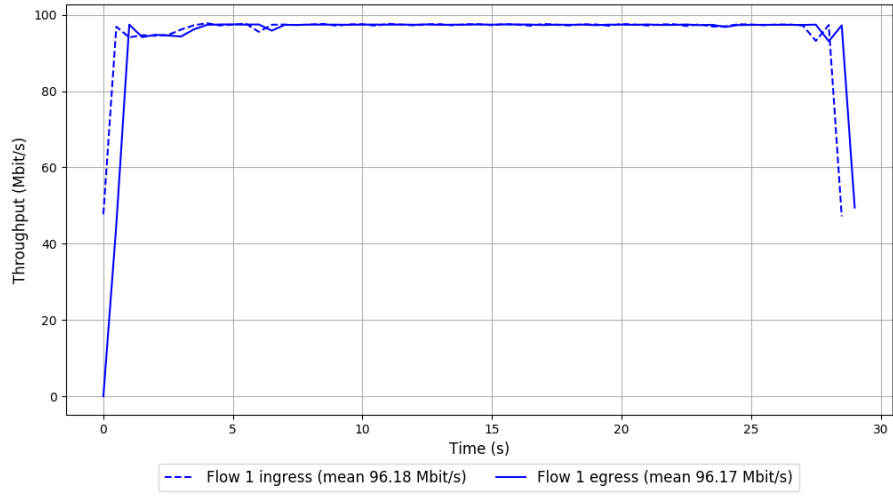
-- Flow 1:

Average throughput: 96.17 Mbit/s

95th percentile per-packet one-way delay: 12.759 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-07-12 00:36:28

End at: 2019-07-12 00:36:58

Local clock offset: 1.068 ms

Remote clock offset: -3.198 ms

Below is generated by plot.py at 2019-07-12 01:05:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.74 Mbit/s

95th percentile per-packet one-way delay: 12.076 ms

Loss rate: 0.00%

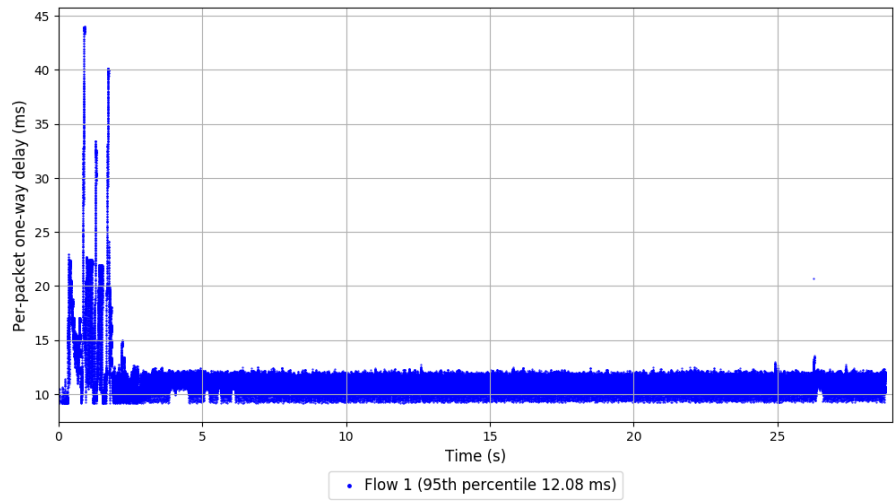
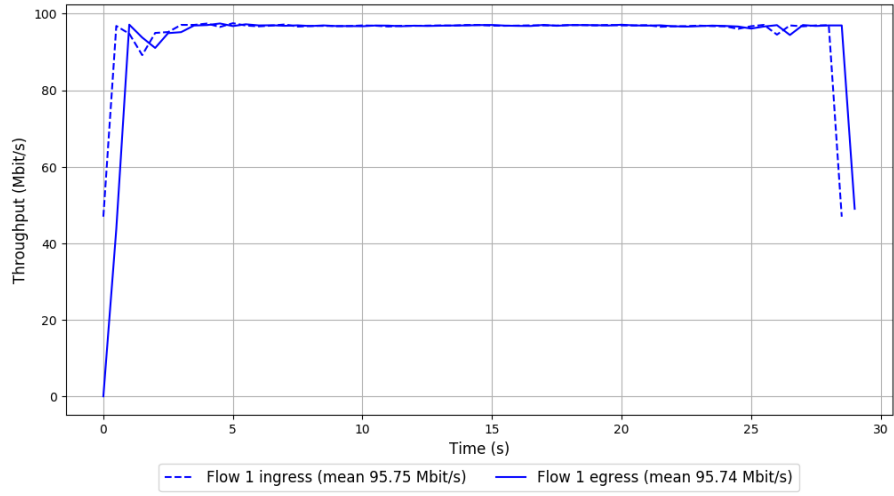
-- Flow 1:

Average throughput: 95.74 Mbit/s

95th percentile per-packet one-way delay: 12.076 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MuseST

Start at: 2019-07-11 23:00:03

End at: 2019-07-11 23:00:33

Local clock offset: -1.927 ms

Remote clock offset: 0.147 ms

Below is generated by plot.py at 2019-07-12 01:05:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.40 Mbit/s

95th percentile per-packet one-way delay: 14.043 ms

Loss rate: 0.00%

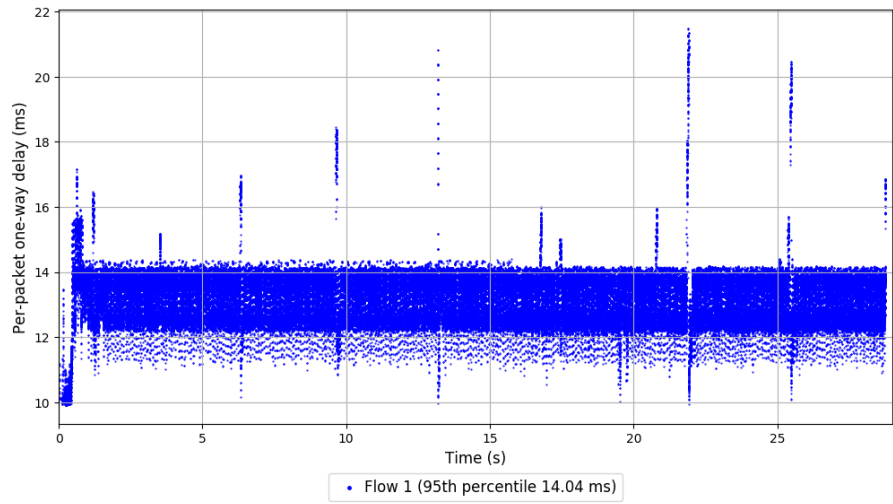
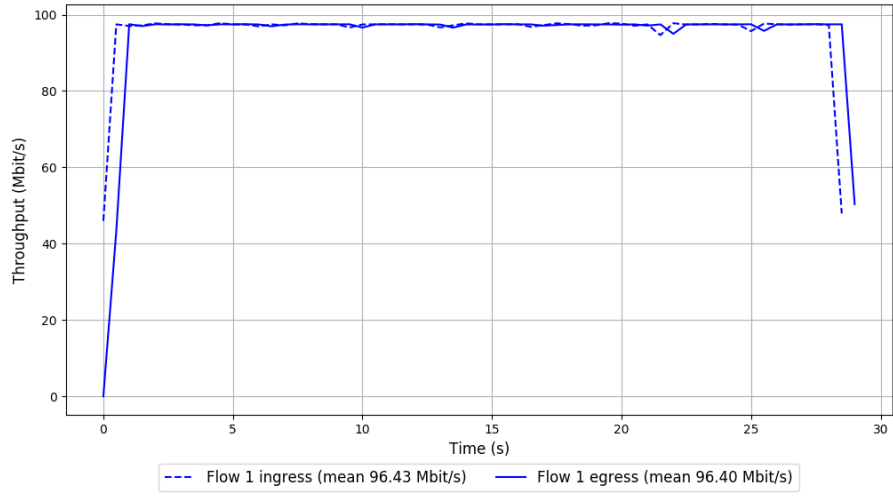
-- Flow 1:

Average throughput: 96.40 Mbit/s

95th percentile per-packet one-way delay: 14.043 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesT — Data Link

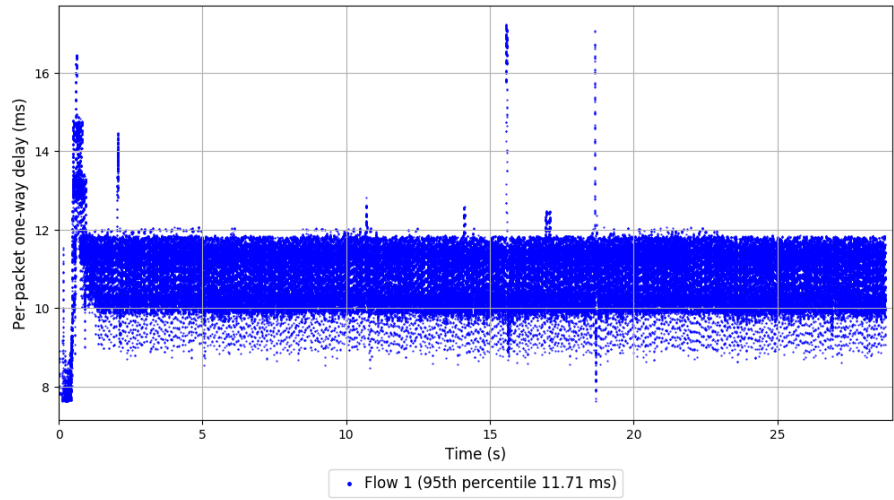
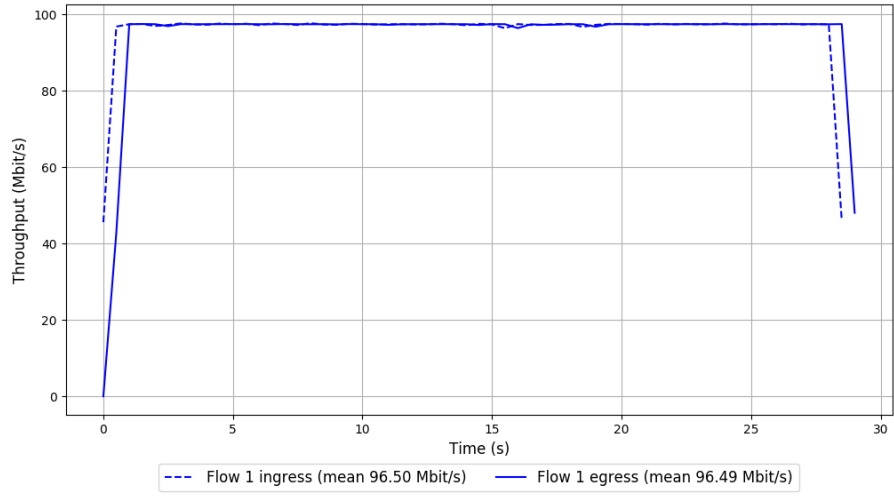


Run 2: Statistics of Indigo-MusesT

Start at: 2019-07-11 23:27:41
End at: 2019-07-11 23:28:11
Local clock offset: -1.631 ms
Remote clock offset: -1.906 ms

Below is generated by plot.py at 2019-07-12 01:05:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.49 Mbit/s
95th percentile per-packet one-way delay: 11.710 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.49 Mbit/s
95th percentile per-packet one-way delay: 11.710 ms
Loss rate: 0.00%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MuseST

Start at: 2019-07-11 23:55:23

End at: 2019-07-11 23:55:53

Local clock offset: 5.036 ms

Remote clock offset: 0.024 ms

Below is generated by plot.py at 2019-07-12 01:05:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.36 Mbit/s

95th percentile per-packet one-way delay: 16.816 ms

Loss rate: 0.00%

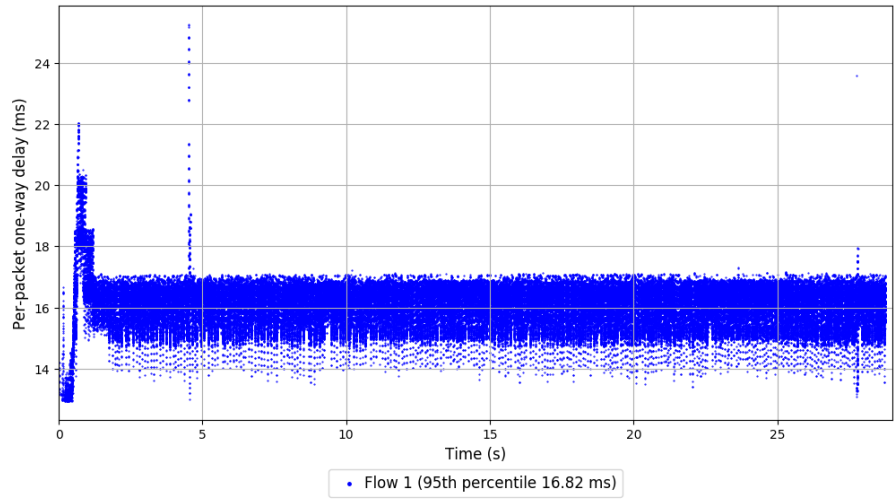
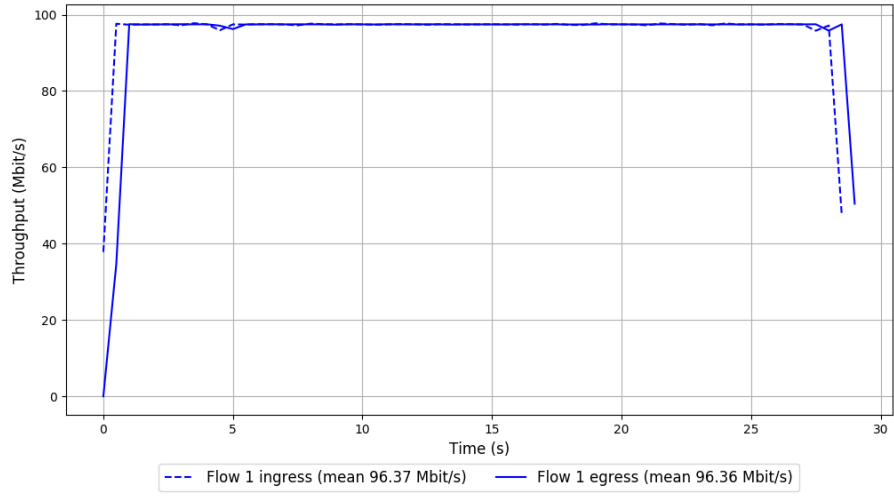
-- Flow 1:

Average throughput: 96.36 Mbit/s

95th percentile per-packet one-way delay: 16.816 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MuseST

Start at: 2019-07-12 00:22:49

End at: 2019-07-12 00:23:19

Local clock offset: -1.039 ms

Remote clock offset: -2.728 ms

Below is generated by plot.py at 2019-07-12 01:05:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.53 Mbit/s

95th percentile per-packet one-way delay: 13.021 ms

Loss rate: 0.00%

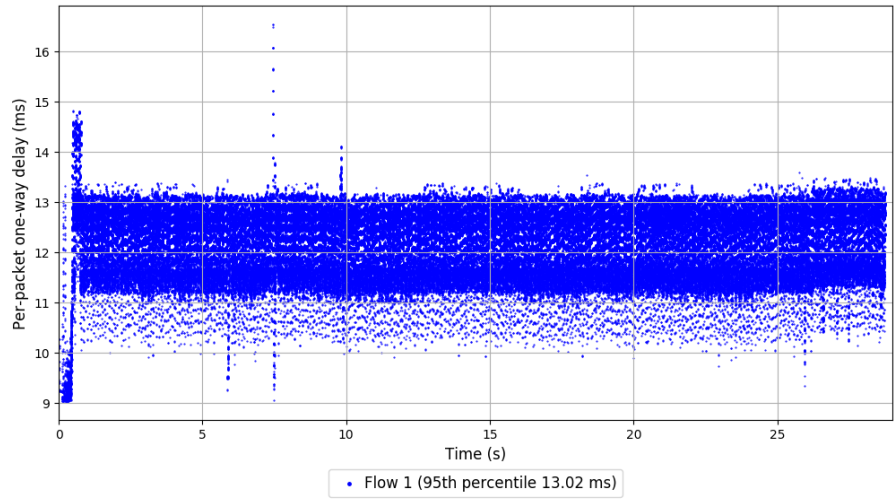
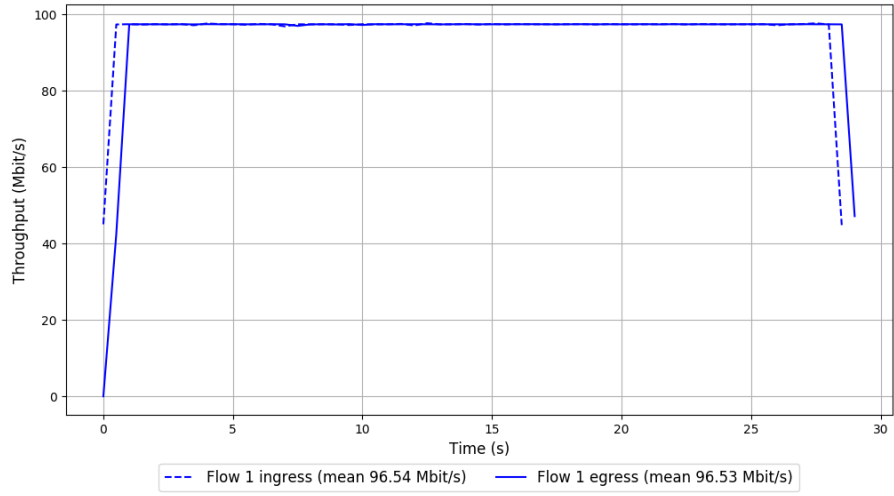
-- Flow 1:

Average throughput: 96.53 Mbit/s

95th percentile per-packet one-way delay: 13.021 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MuseST

Start at: 2019-07-12 00:50:18

End at: 2019-07-12 00:50:48

Local clock offset: 2.392 ms

Remote clock offset: -5.48 ms

Below is generated by plot.py at 2019-07-12 01:06:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.47 Mbit/s

95th percentile per-packet one-way delay: 11.534 ms

Loss rate: 0.00%

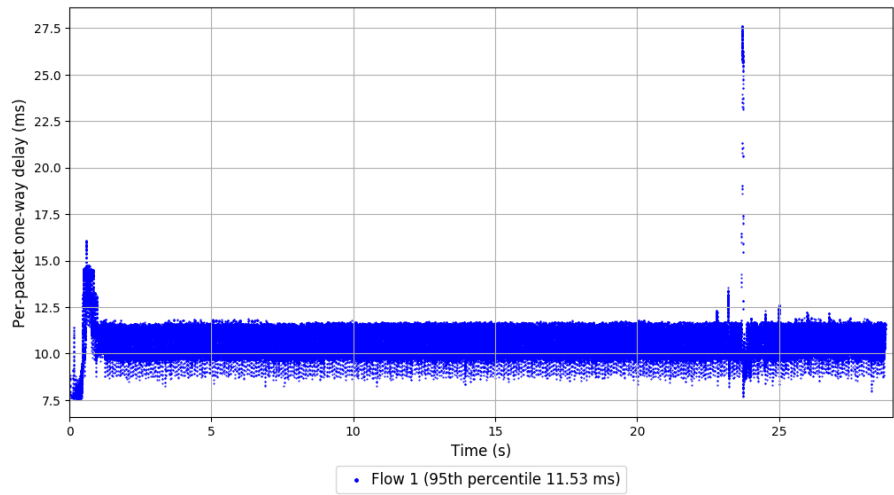
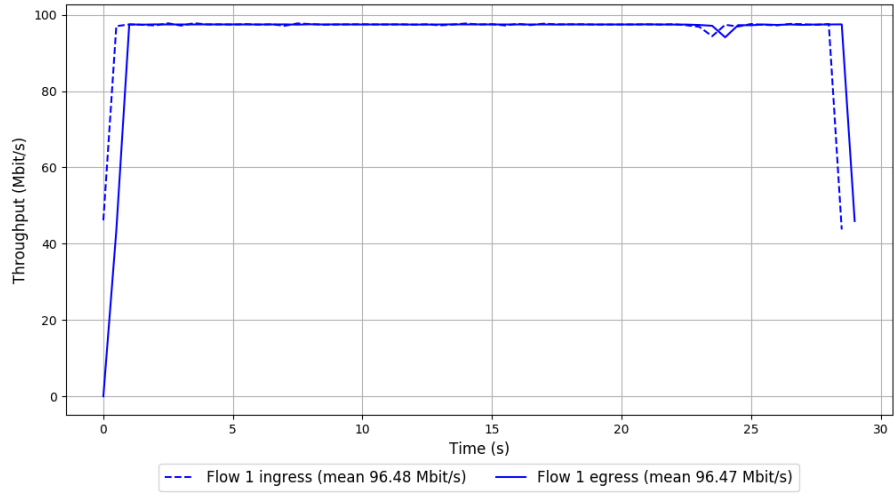
-- Flow 1:

Average throughput: 96.47 Mbit/s

95th percentile per-packet one-way delay: 11.534 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesT — Data Link

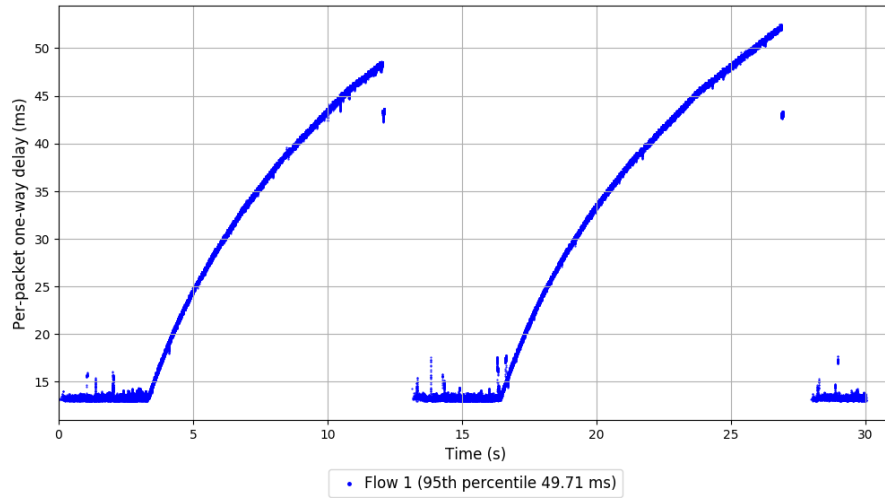
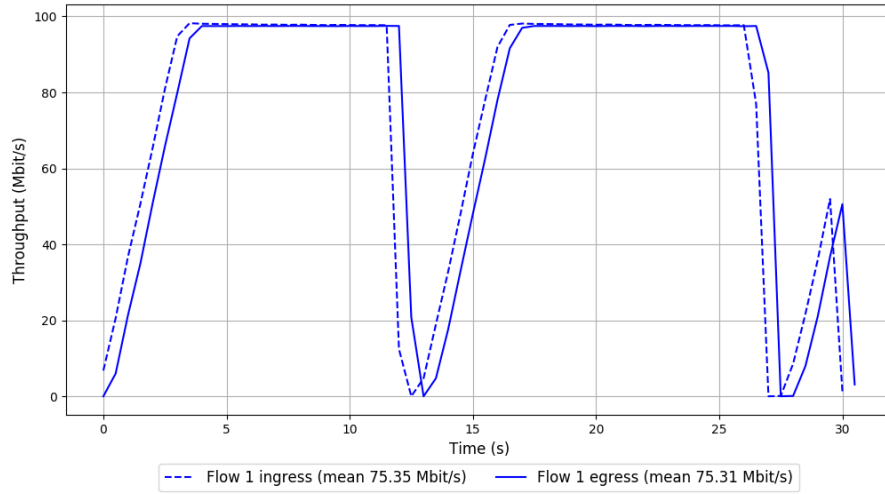


Run 1: Statistics of LEDBAT

Start at: 2019-07-11 22:43:46
End at: 2019-07-11 22:44:16
Local clock offset: -3.221 ms
Remote clock offset: -0.602 ms

Below is generated by plot.py at 2019-07-12 01:06:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 75.31 Mbit/s
95th percentile per-packet one-way delay: 49.710 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 75.31 Mbit/s
95th percentile per-packet one-way delay: 49.710 ms
Loss rate: 0.06%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

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

End at: 2019-07-11 23:12:04

Local clock offset: -0.546 ms

Remote clock offset: 0.194 ms

Below is generated by plot.py at 2019-07-12 01:06:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.99 Mbit/s

95th percentile per-packet one-way delay: 48.422 ms

Loss rate: 0.04%

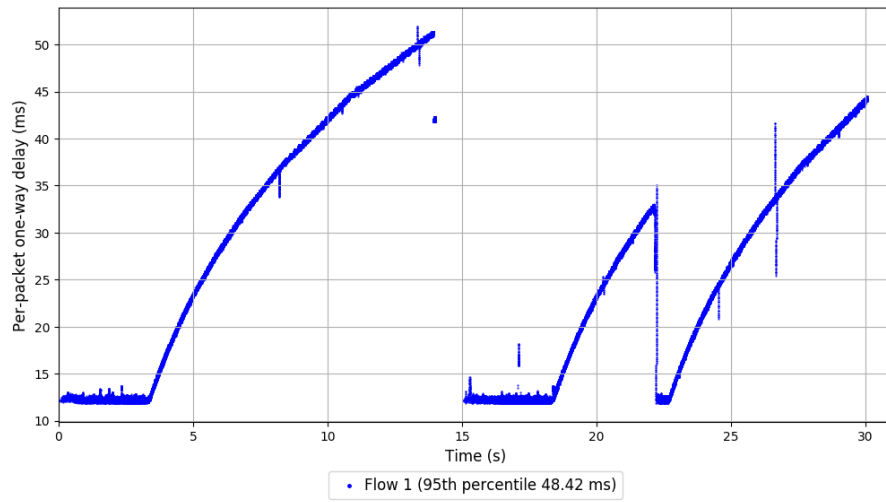
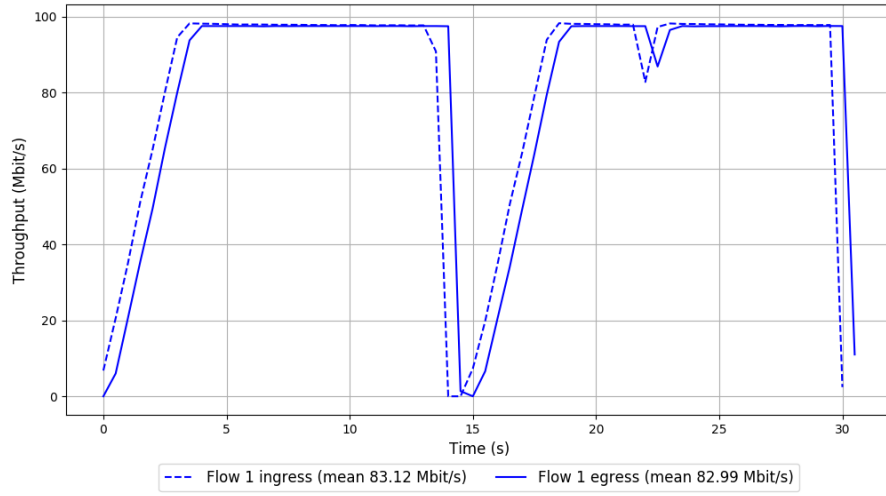
-- Flow 1:

Average throughput: 82.99 Mbit/s

95th percentile per-packet one-way delay: 48.422 ms

Loss rate: 0.04%

Run 2: Report of LEDBAT — Data Link

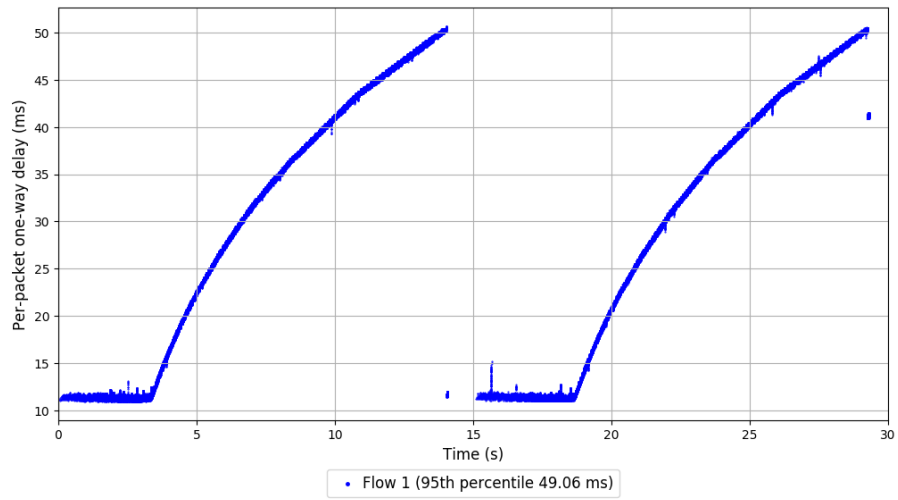
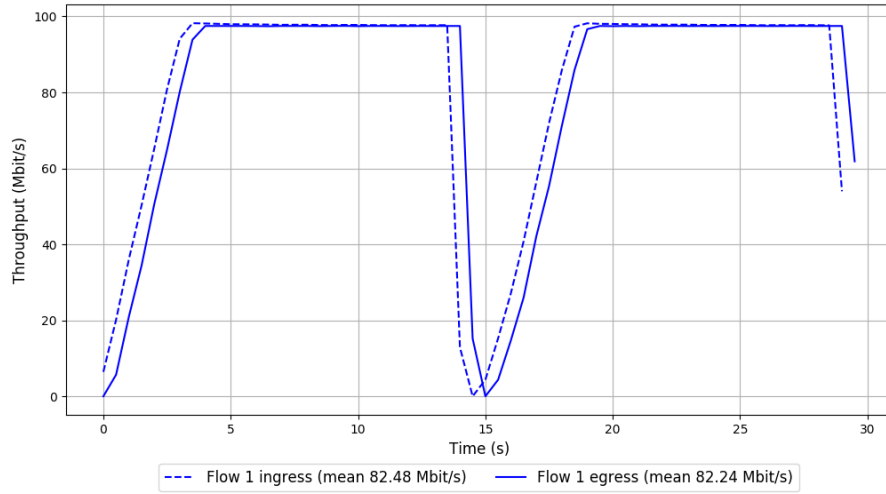


Run 3: Statistics of LEDBAT

Start at: 2019-07-11 23:39:07
End at: 2019-07-11 23:39:37
Local clock offset: 2.894 ms
Remote clock offset: -1.441 ms

Below is generated by plot.py at 2019-07-12 01:06:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 82.24 Mbit/s
95th percentile per-packet one-way delay: 49.059 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 82.24 Mbit/s
95th percentile per-packet one-way delay: 49.059 ms
Loss rate: 0.19%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-07-12 00:06:44

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

Local clock offset: 2.113 ms

Remote clock offset: -2.024 ms

Below is generated by plot.py at 2019-07-12 01:06:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.33 Mbit/s

95th percentile per-packet one-way delay: 48.903 ms

Loss rate: 0.20%

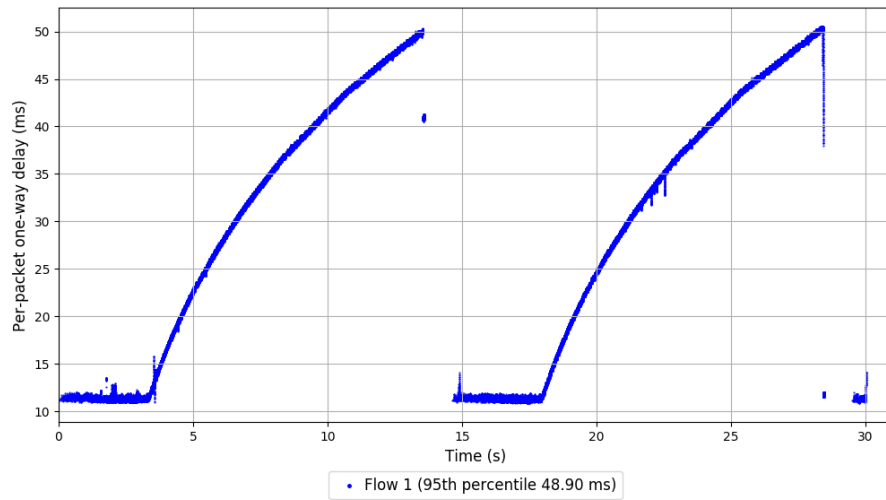
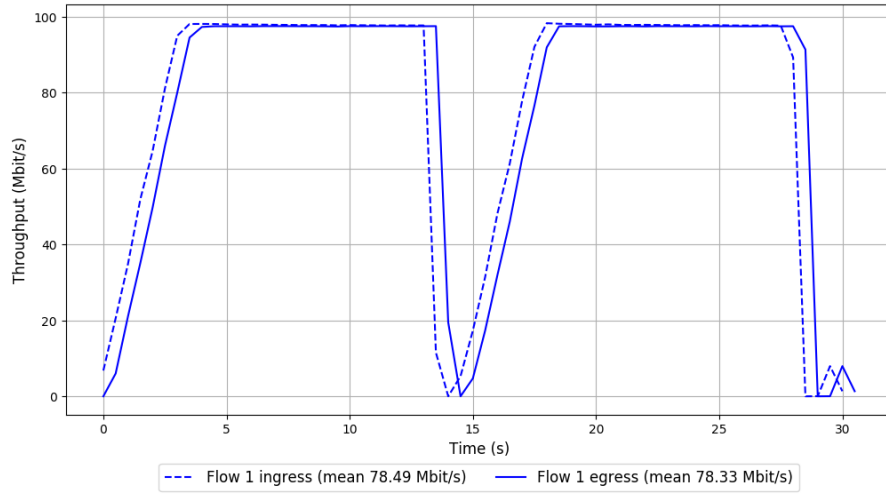
-- Flow 1:

Average throughput: 78.33 Mbit/s

95th percentile per-packet one-way delay: 48.903 ms

Loss rate: 0.20%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-07-12 00:34:08

End at: 2019-07-12 00:34:38

Local clock offset: 1.208 ms

Remote clock offset: -2.514 ms

Below is generated by plot.py at 2019-07-12 01:06:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.44 Mbit/s

95th percentile per-packet one-way delay: 47.114 ms

Loss rate: 0.20%

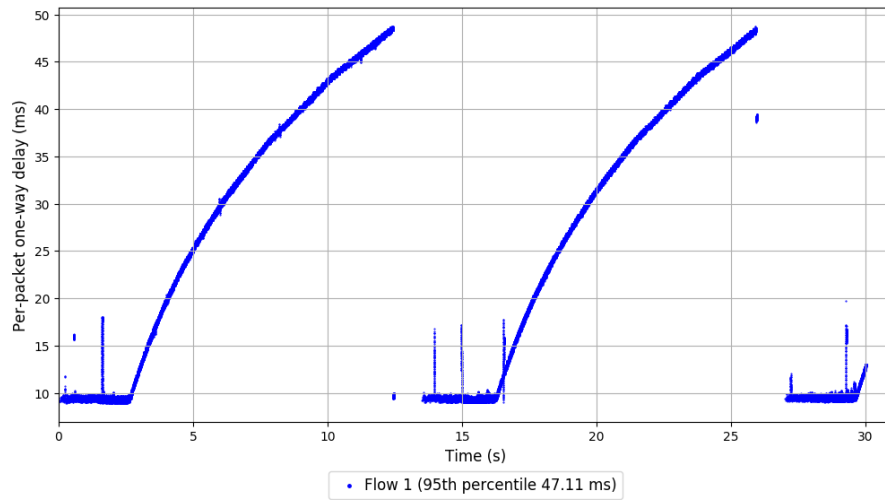
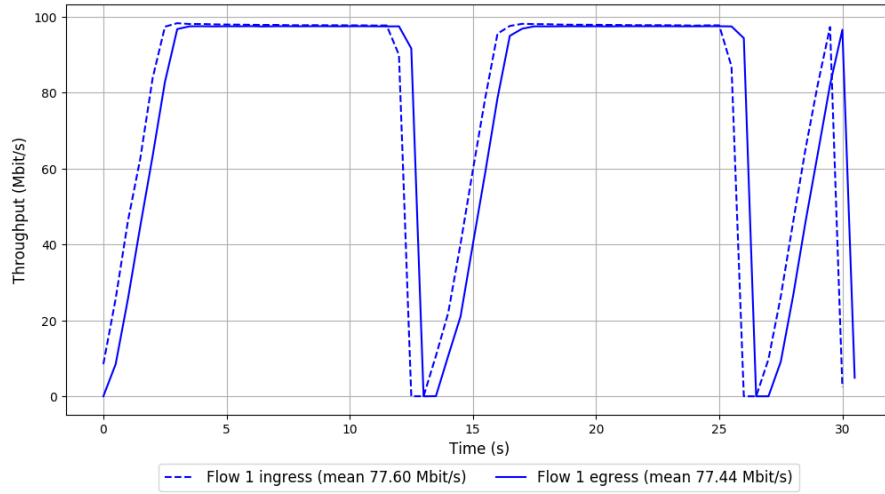
-- Flow 1:

Average throughput: 77.44 Mbit/s

95th percentile per-packet one-way delay: 47.114 ms

Loss rate: 0.20%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses_DecisionTree

Start at: 2019-07-11 22:55:24

End at: 2019-07-11 22:55:54

Local clock offset: -1.082 ms

Remote clock offset: 0.632 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.49 Mbit/s

95th percentile per-packet one-way delay: 14.671 ms

Loss rate: 0.19%

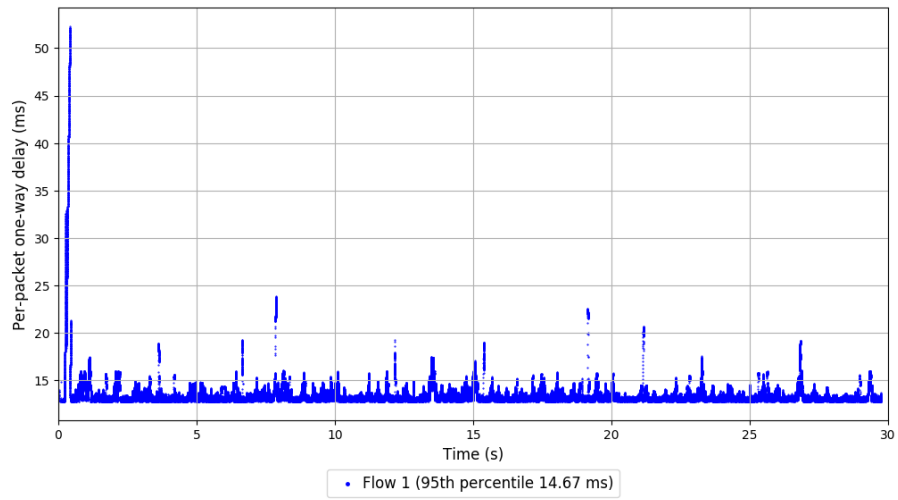
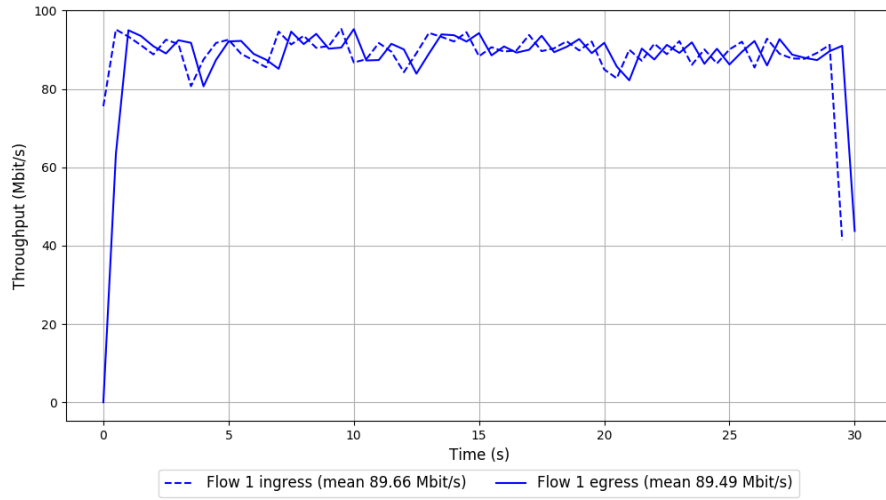
-- Flow 1:

Average throughput: 89.49 Mbit/s

95th percentile per-packet one-way delay: 14.671 ms

Loss rate: 0.19%

Run 1: Report of Muses_DecisionTree — Data Link



Run 2: Statistics of Muses_DecisionTree

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

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

Local clock offset: -0.794 ms

Remote clock offset: -0.38 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.40 Mbit/s

95th percentile per-packet one-way delay: 10.317 ms

Loss rate: 0.18%

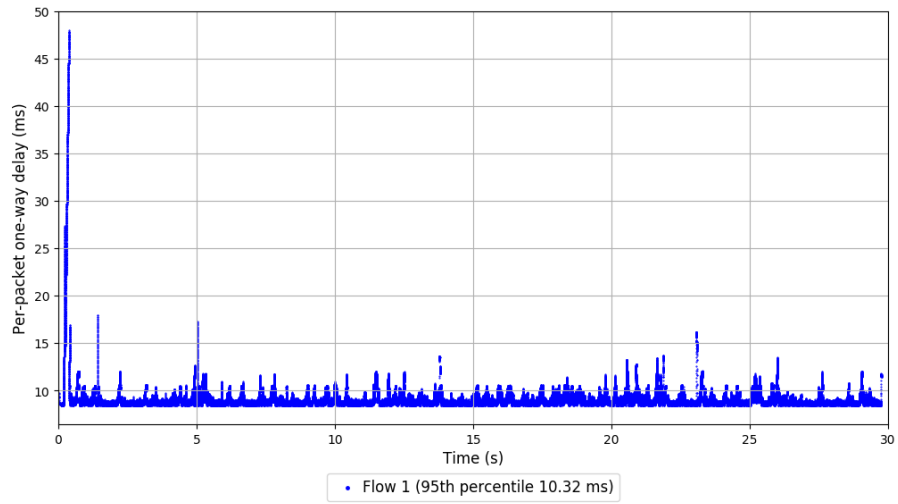
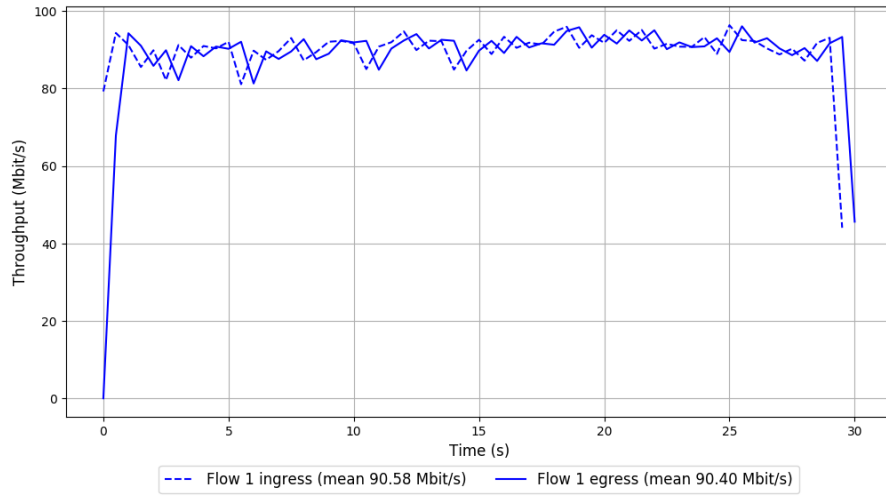
-- Flow 1:

Average throughput: 90.40 Mbit/s

95th percentile per-packet one-way delay: 10.317 ms

Loss rate: 0.18%

Run 2: Report of Muses_DecisionTree — Data Link

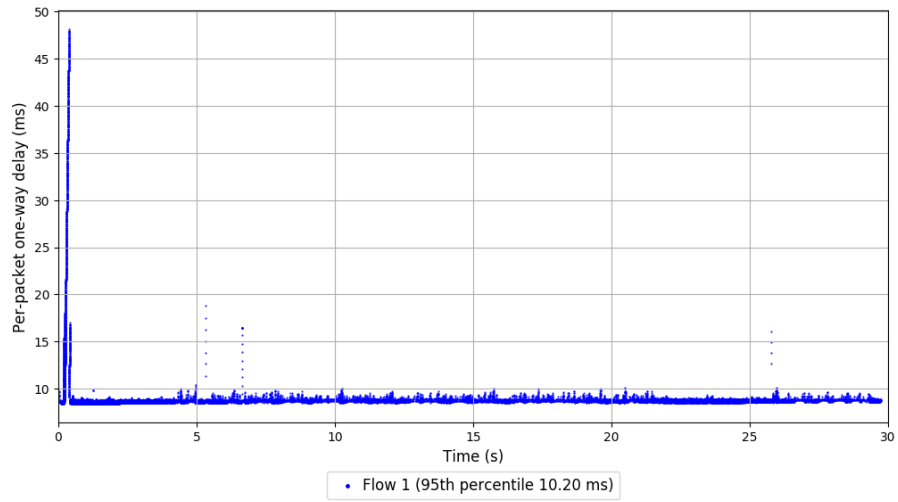
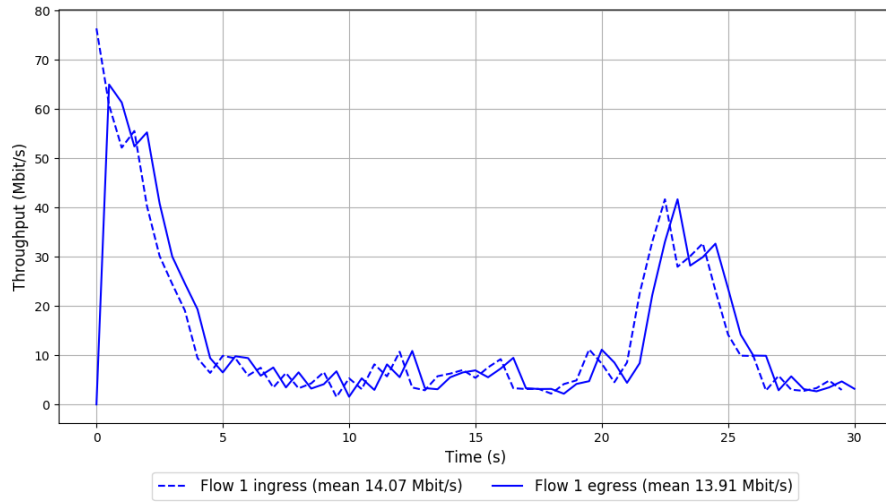


Run 3: Statistics of Muses_DecisionTree

Start at: 2019-07-11 23:50:51
End at: 2019-07-11 23:51:21
Local clock offset: 4.474 ms
Remote clock offset: -1.204 ms

Below is generated by plot.py at 2019-07-12 01:07:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.91 Mbit/s
95th percentile per-packet one-way delay: 10.198 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 13.91 Mbit/s
95th percentile per-packet one-way delay: 10.198 ms
Loss rate: 1.17%

Run 3: Report of Muses_DecisionTree — Data Link



Run 4: Statistics of Muses_DecisionTree

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

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

Local clock offset: -0.863 ms

Remote clock offset: 0.057 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.86 Mbit/s

95th percentile per-packet one-way delay: 12.052 ms

Loss rate: 0.72%

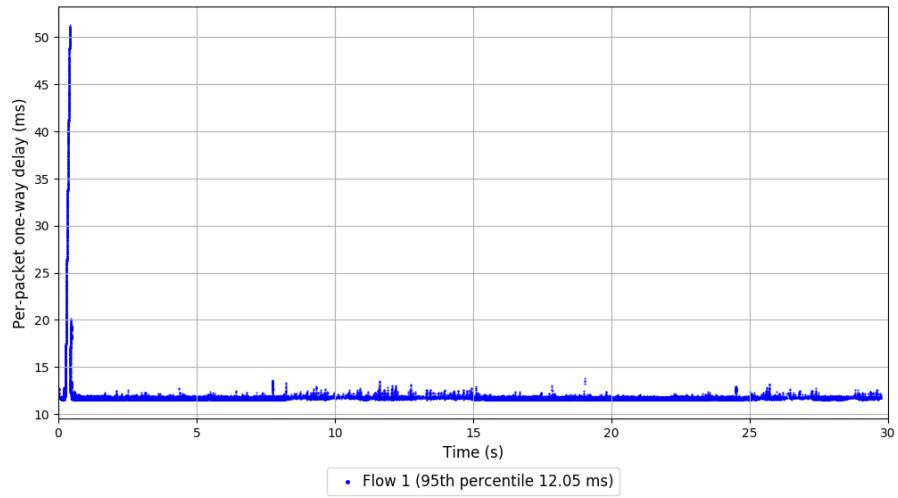
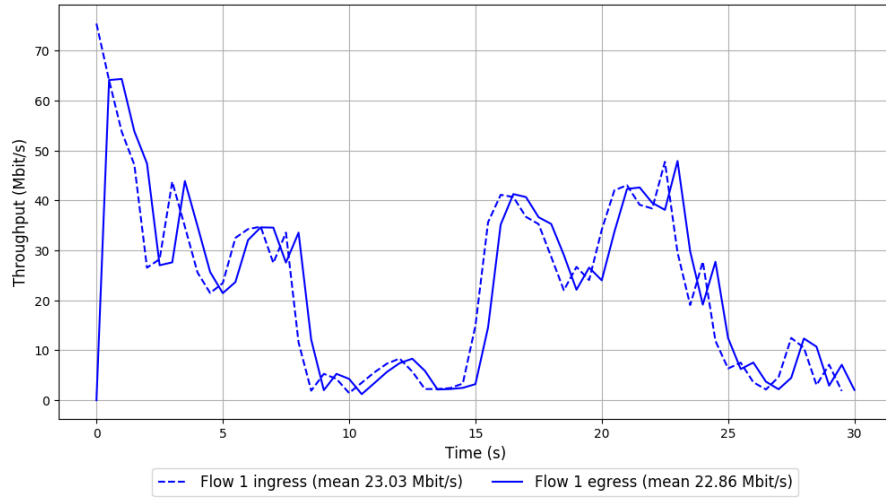
-- Flow 1:

Average throughput: 22.86 Mbit/s

95th percentile per-packet one-way delay: 12.052 ms

Loss rate: 0.72%

Run 4: Report of Muses_DecisionTree — Data Link

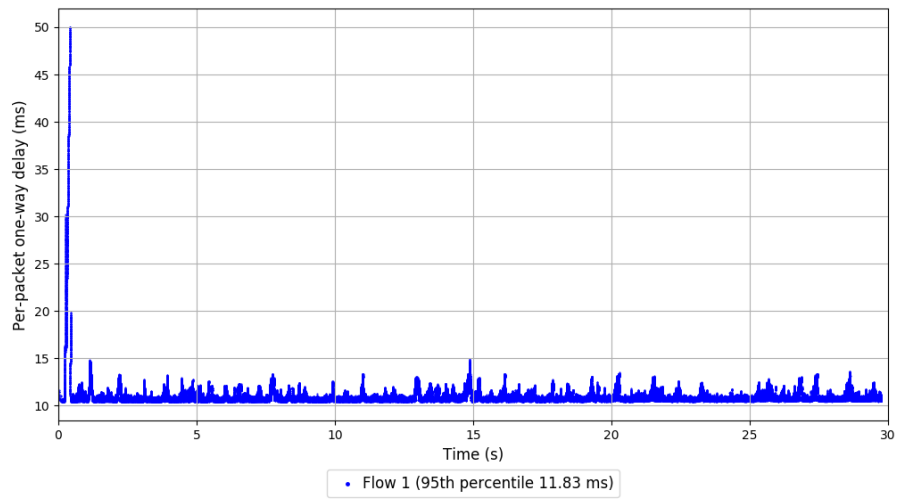
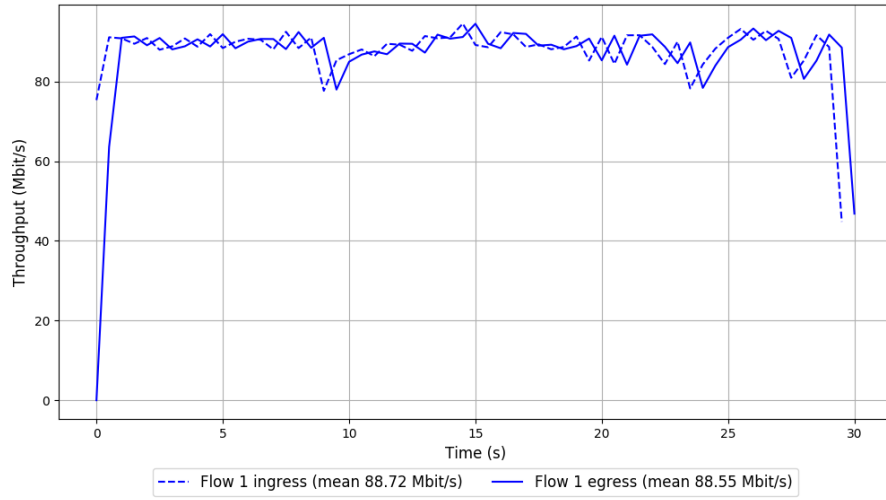


Run 5: Statistics of Muses_DecisionTree

Start at: 2019-07-12 00:45:43
End at: 2019-07-12 00:46:13
Local clock offset: 2.124 ms
Remote clock offset: -5.627 ms

Below is generated by plot.py at 2019-07-12 01:08:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.55 Mbit/s
95th percentile per-packet one-way delay: 11.828 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 88.55 Mbit/s
95th percentile per-packet one-way delay: 11.828 ms
Loss rate: 0.19%

Run 5: Report of Muses_DecisionTree — Data Link



Run 1: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-11 22:58:50

End at: 2019-07-11 22:59:20

Local clock offset: -2.034 ms

Remote clock offset: 0.827 ms

Below is generated by plot.py at 2019-07-12 01:08:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.80 Mbit/s

95th percentile per-packet one-way delay: 22.376 ms

Loss rate: 0.17%

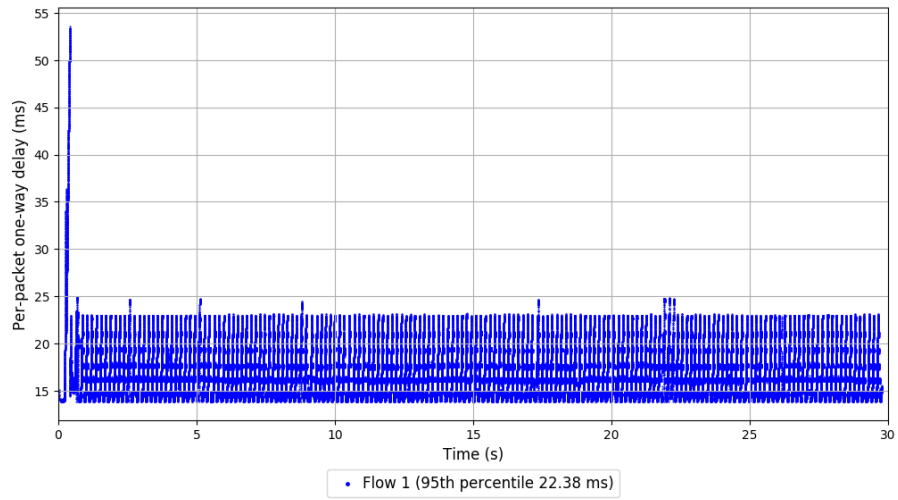
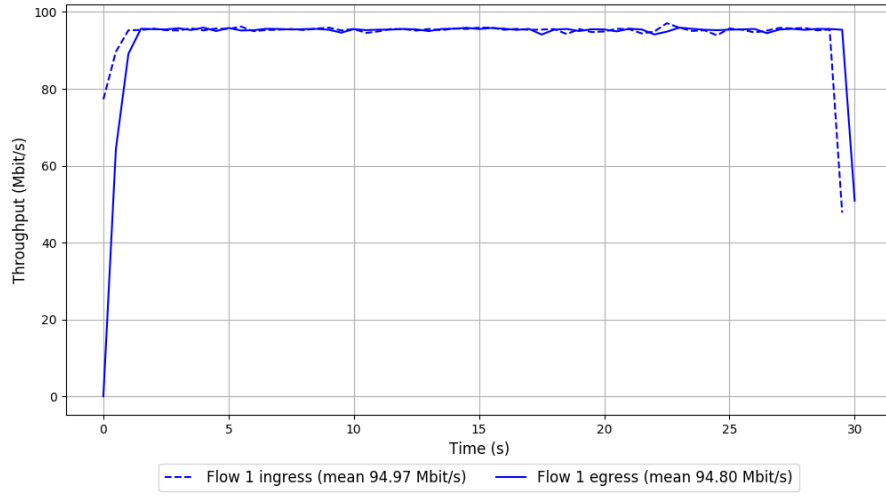
-- Flow 1:

Average throughput: 94.80 Mbit/s

95th percentile per-packet one-way delay: 22.376 ms

Loss rate: 0.17%

Run 1: Report of Muses_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-11 23:26:32

End at: 2019-07-11 23:27:02

Local clock offset: -0.74 ms

Remote clock offset: -0.52 ms

Below is generated by plot.py at 2019-07-12 01:08:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.97 Mbit/s

95th percentile per-packet one-way delay: 16.937 ms

Loss rate: 0.18%

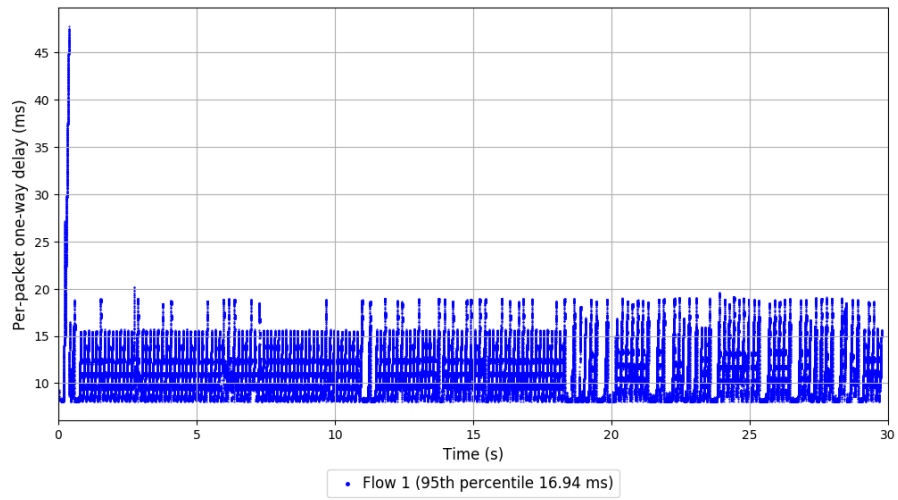
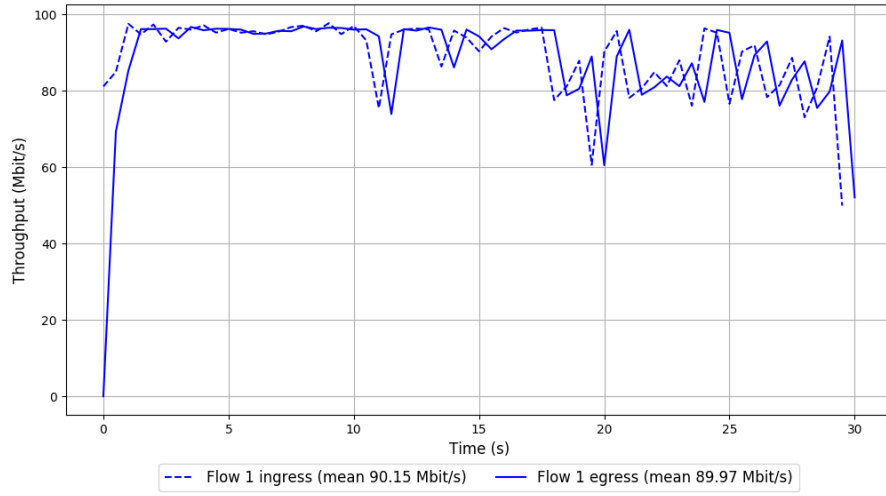
-- Flow 1:

Average throughput: 89.97 Mbit/s

95th percentile per-packet one-way delay: 16.937 ms

Loss rate: 0.18%

Run 2: Report of Muses_DecisionTreeH0 — Data Link

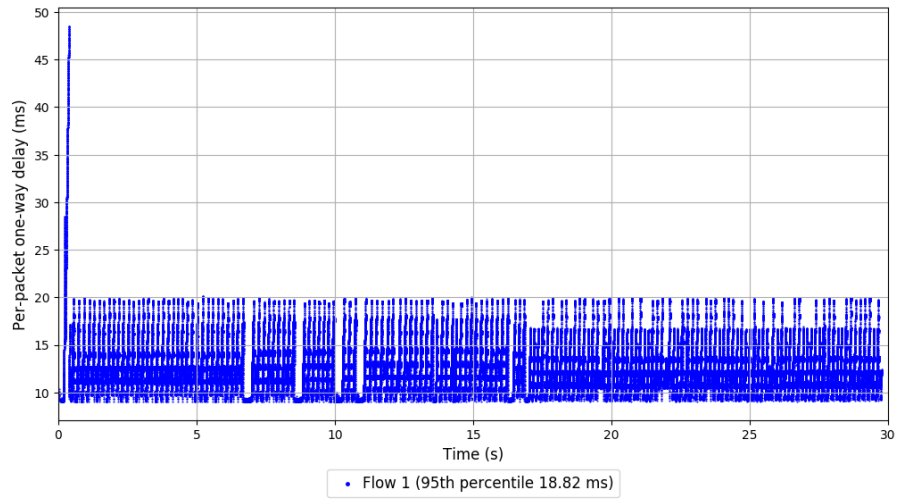
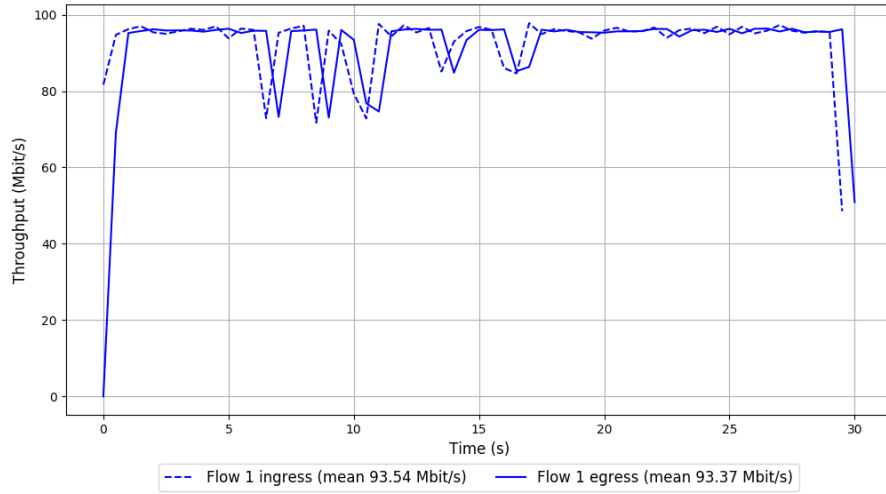


Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-11 23:54:13
End at: 2019-07-11 23:54:43
Local clock offset: 5.313 ms
Remote clock offset: -0.227 ms

Below is generated by plot.py at 2019-07-12 01:08:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.37 Mbit/s
95th percentile per-packet one-way delay: 18.822 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 93.37 Mbit/s
95th percentile per-packet one-way delay: 18.822 ms
Loss rate: 0.18%

Run 3: Report of Muses_DecisionTreeH0 — Data Link

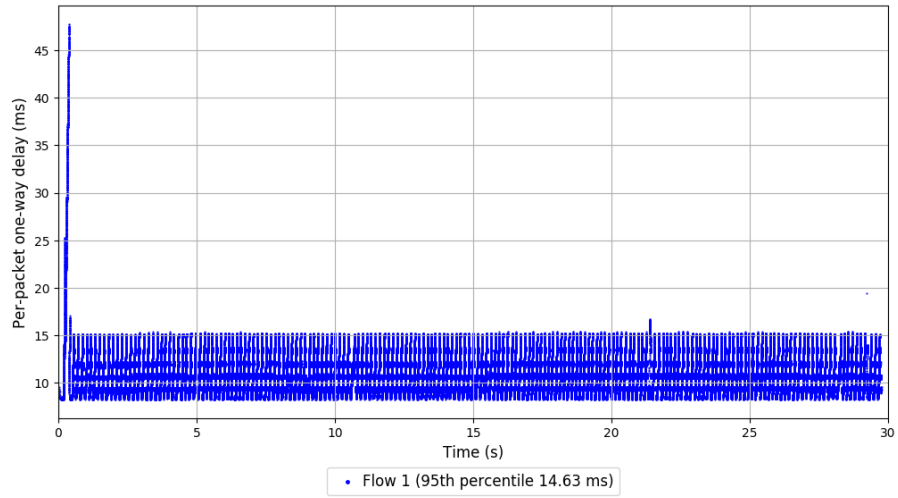
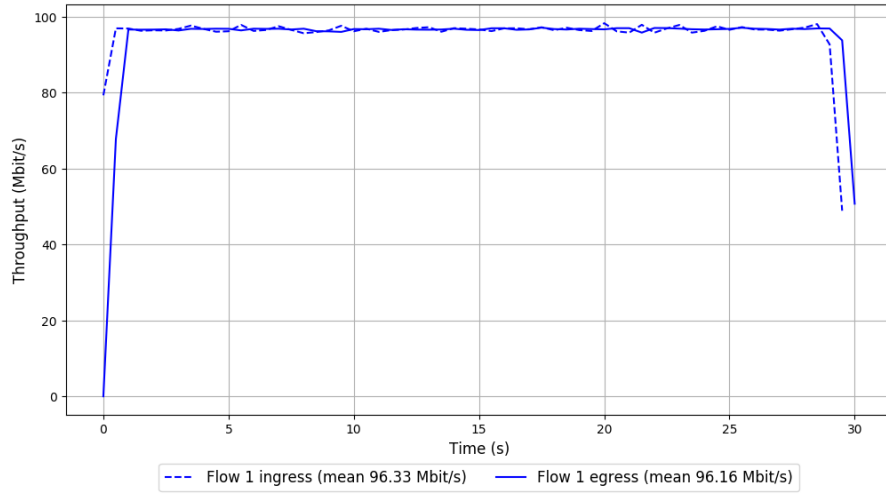


Run 4: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-12 00:21:40
End at: 2019-07-12 00:22:10
Local clock offset: 0.45 ms
Remote clock offset: -1.932 ms

Below is generated by plot.py at 2019-07-12 01:08:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.16 Mbit/s
95th percentile per-packet one-way delay: 14.630 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 96.16 Mbit/s
95th percentile per-packet one-way delay: 14.630 ms
Loss rate: 0.17%

Run 4: Report of Muses_DecisionTreeH0 — Data Link

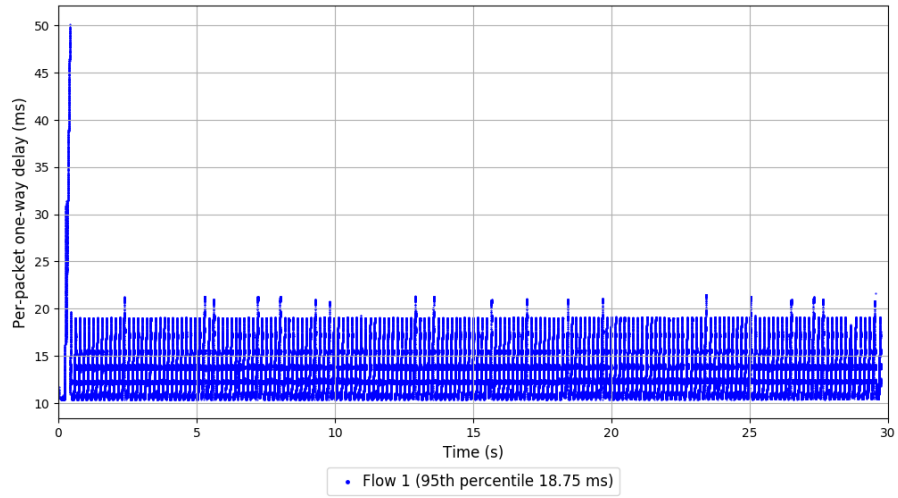
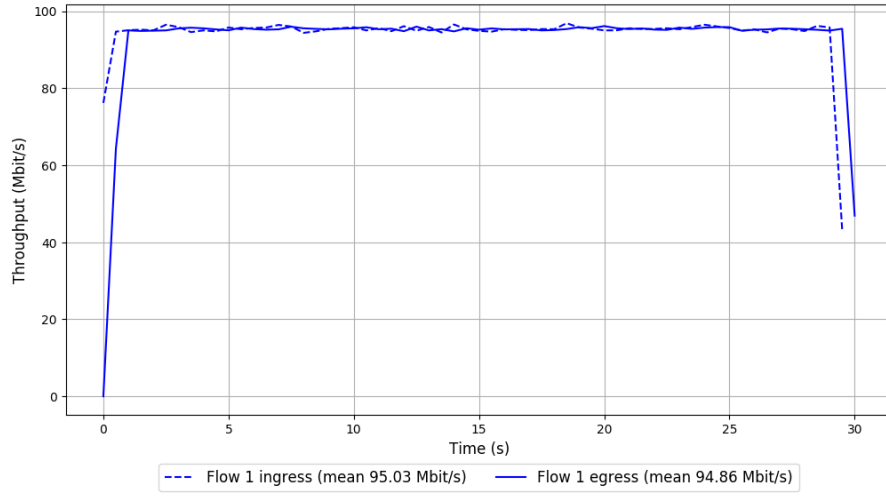


Run 5: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-12 00:49:08
End at: 2019-07-12 00:49:38
Local clock offset: 3.41 ms
Remote clock offset: -4.612 ms

Below is generated by plot.py at 2019-07-12 01:08:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.86 Mbit/s
95th percentile per-packet one-way delay: 18.750 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 94.86 Mbit/s
95th percentile per-packet one-way delay: 18.750 ms
Loss rate: 0.17%

Run 5: Report of Muses_DecisionTreeH0 — Data Link



Run 1: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-11 22:52:04

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

Local clock offset: -1.589 ms

Remote clock offset: 0.584 ms

Below is generated by plot.py at 2019-07-12 01:08:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.84 Mbit/s

95th percentile per-packet one-way delay: 12.735 ms

Loss rate: 0.17%

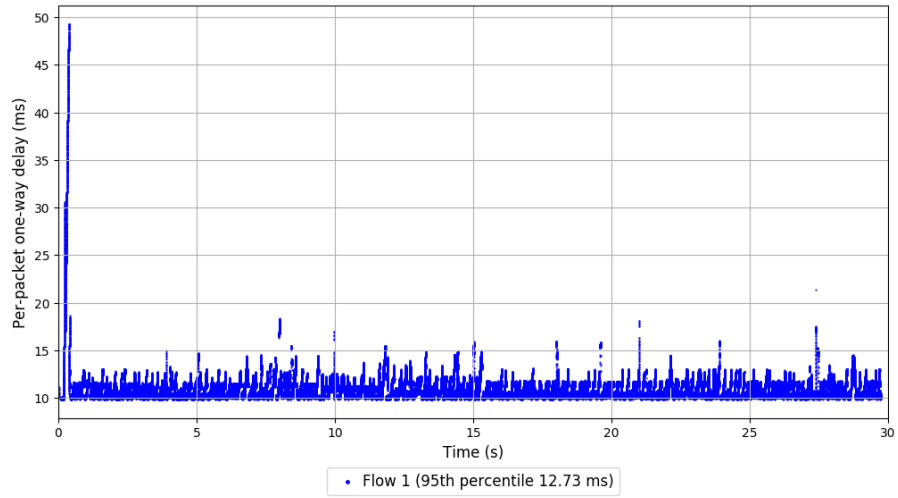
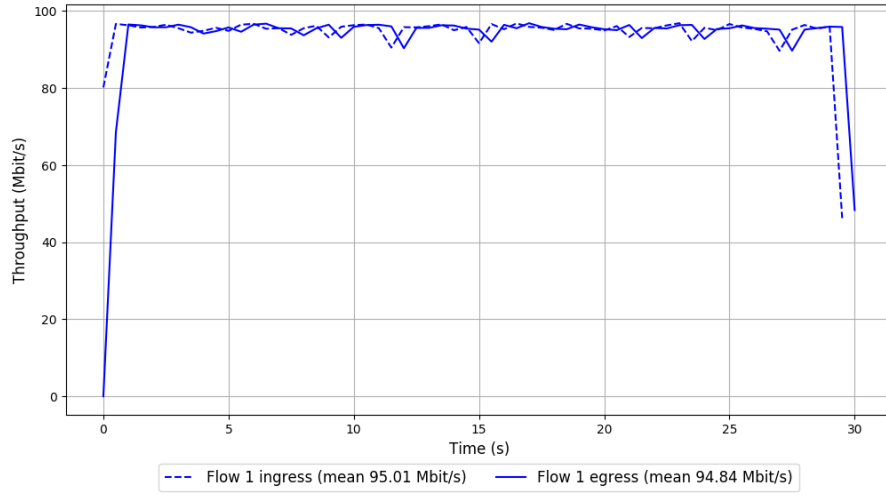
-- Flow 1:

Average throughput: 94.84 Mbit/s

95th percentile per-packet one-way delay: 12.735 ms

Loss rate: 0.17%

Run 1: Report of Muses_DecisionTreeR0 — Data Link

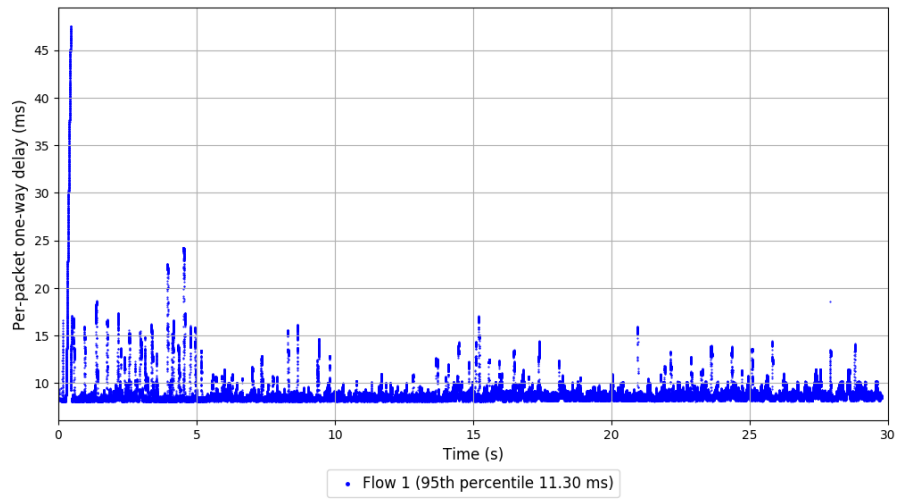
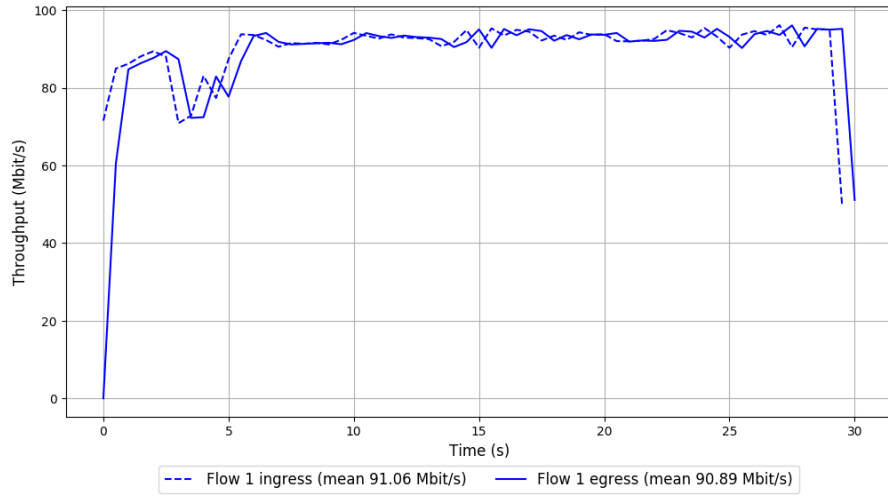


Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-11 23:19:43
End at: 2019-07-11 23:20:13
Local clock offset: -1.275 ms
Remote clock offset: -1.155 ms

Below is generated by plot.py at 2019-07-12 01:08:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.89 Mbit/s
95th percentile per-packet one-way delay: 11.296 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 90.89 Mbit/s
95th percentile per-packet one-way delay: 11.296 ms
Loss rate: 0.18%

Run 2: Report of Muses_DecisionTreeR0 — Data Link

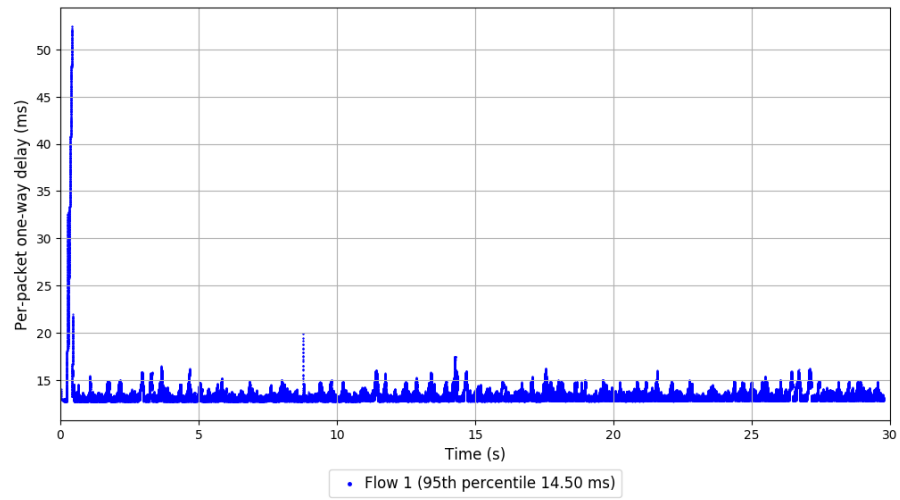
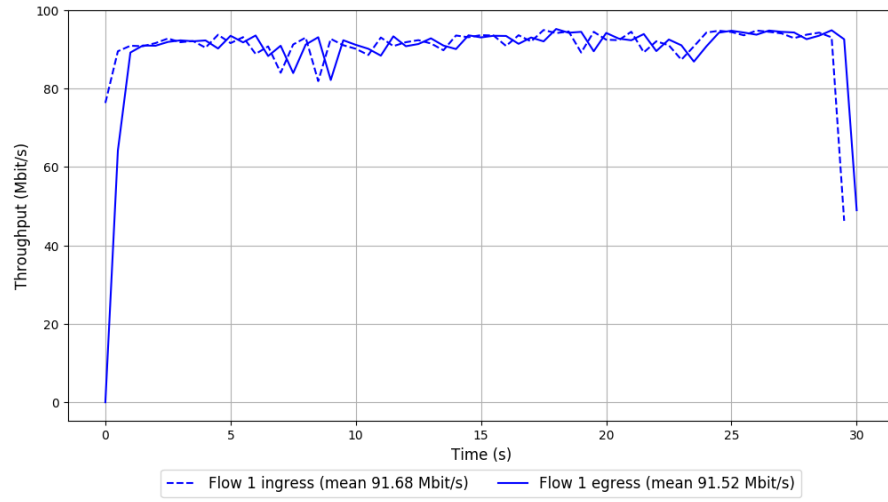


Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-11 23:47:28
End at: 2019-07-11 23:47:58
Local clock offset: 3.789 ms
Remote clock offset: -0.295 ms

Below is generated by plot.py at 2019-07-12 01:09:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.52 Mbit/s
95th percentile per-packet one-way delay: 14.500 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 91.52 Mbit/s
95th percentile per-packet one-way delay: 14.500 ms
Loss rate: 0.18%

Run 3: Report of Muses_DecisionTreeR0 — Data Link



Run 4: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-12 00:14:51

End at: 2019-07-12 00:15:21

Local clock offset: 0.555 ms

Remote clock offset: -3.26 ms

Below is generated by plot.py at 2019-07-12 01:09:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.11 Mbit/s

95th percentile per-packet one-way delay: 11.505 ms

Loss rate: 0.18%

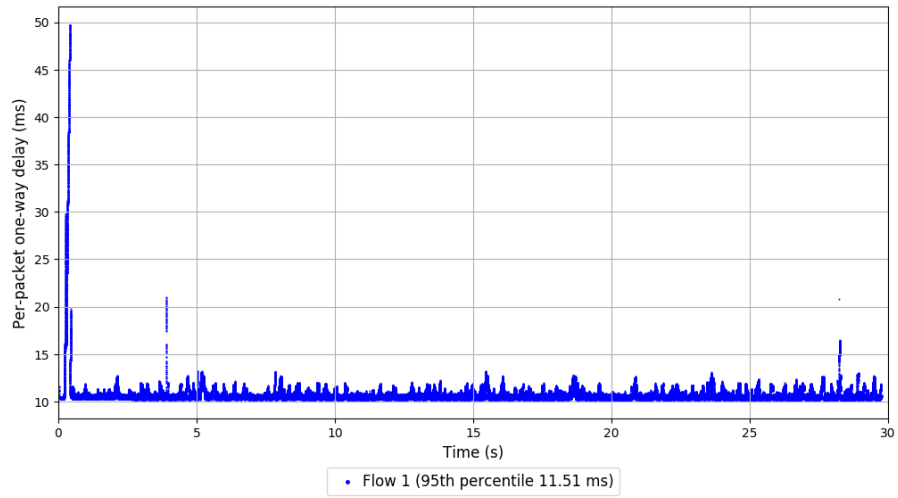
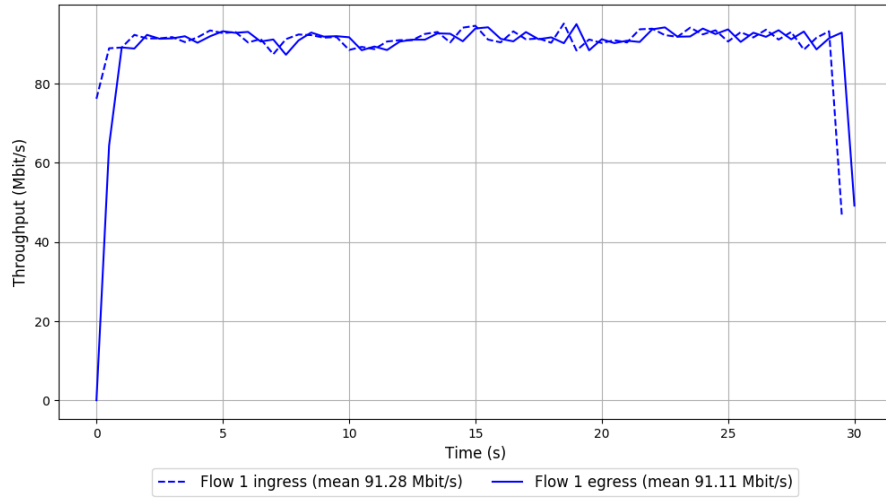
-- Flow 1:

Average throughput: 91.11 Mbit/s

95th percentile per-packet one-way delay: 11.505 ms

Loss rate: 0.18%

Run 4: Report of Muses_DecisionTreeR0 — Data Link

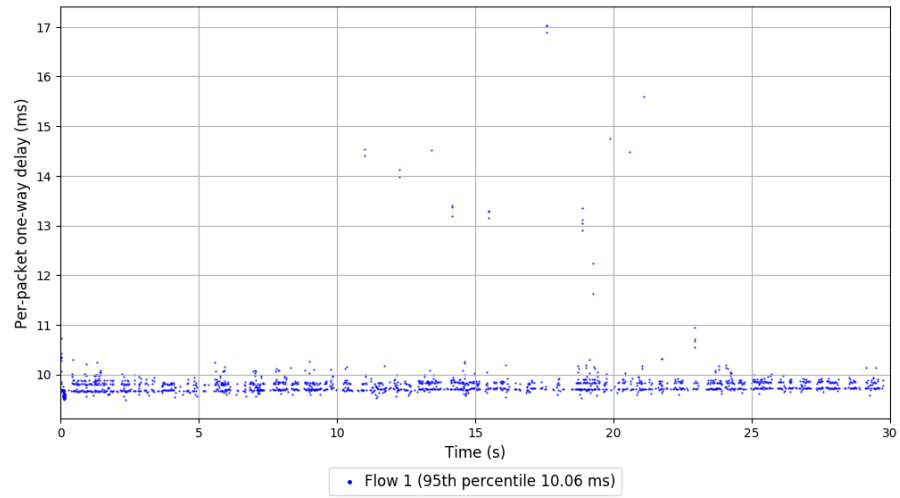
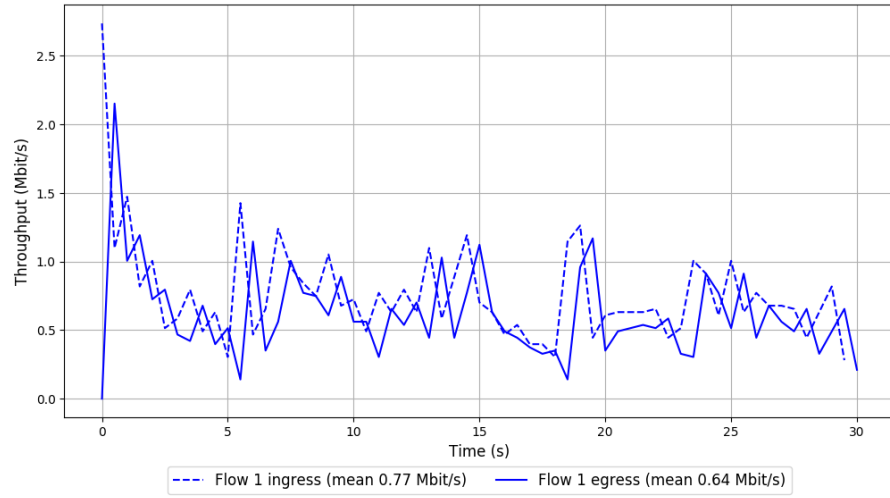


Run 5: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-12 00:42:20
End at: 2019-07-12 00:42:50
Local clock offset: 1.703 ms
Remote clock offset: -6.537 ms

Below is generated by plot.py at 2019-07-12 01:09:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 10.059 ms
Loss rate: 17.49%
-- Flow 1:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 10.059 ms
Loss rate: 17.49%

Run 5: Report of Muses_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-07-11 22:44:59

End at: 2019-07-11 22:45:29

Local clock offset: -2.177 ms

Remote clock offset: -1.702 ms

Below is generated by plot.py at 2019-07-12 01:09:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.60 Mbit/s

95th percentile per-packet one-way delay: 12.013 ms

Loss rate: 0.27%

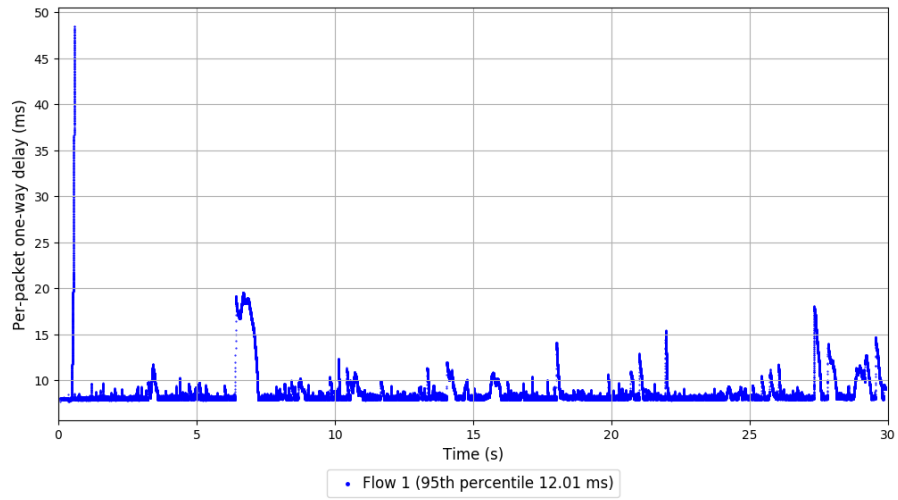
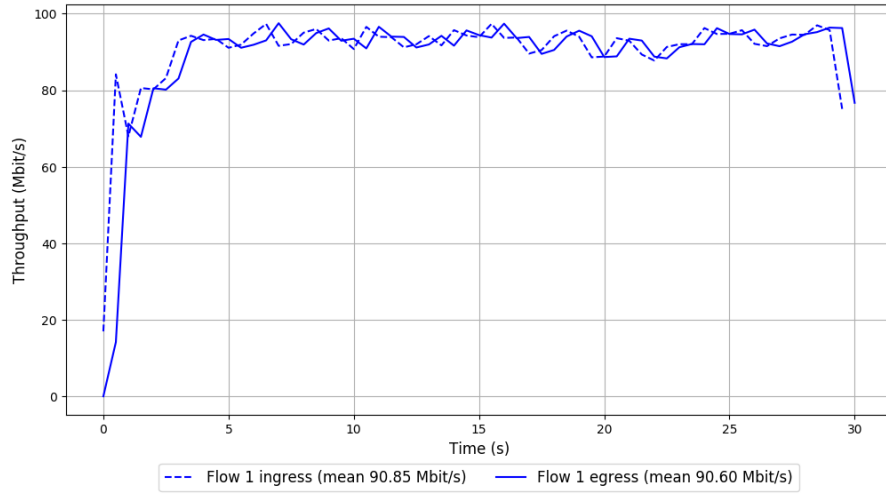
-- Flow 1:

Average throughput: 90.60 Mbit/s

95th percentile per-packet one-way delay: 12.013 ms

Loss rate: 0.27%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-07-11 23:12:44

End at: 2019-07-11 23:13:14

Local clock offset: -1.305 ms

Remote clock offset: -0.567 ms

Below is generated by plot.py at 2019-07-12 01:09:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.32 Mbit/s

95th percentile per-packet one-way delay: 11.712 ms

Loss rate: 0.27%

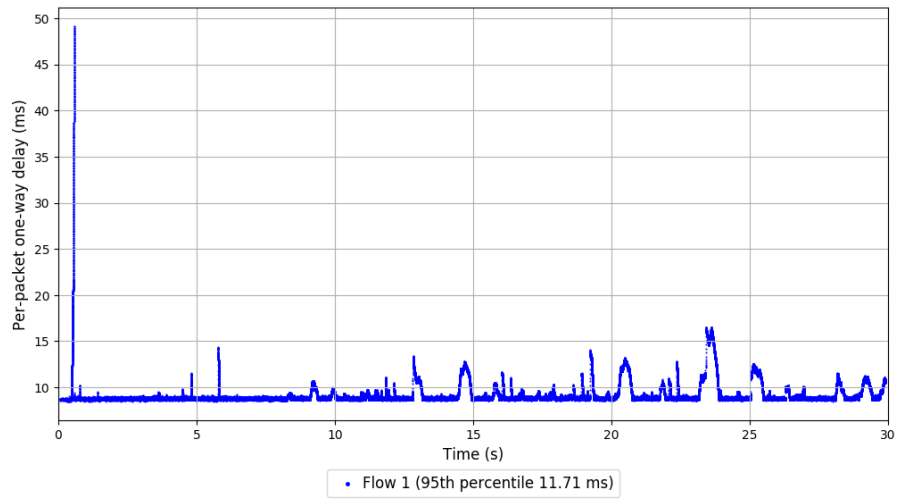
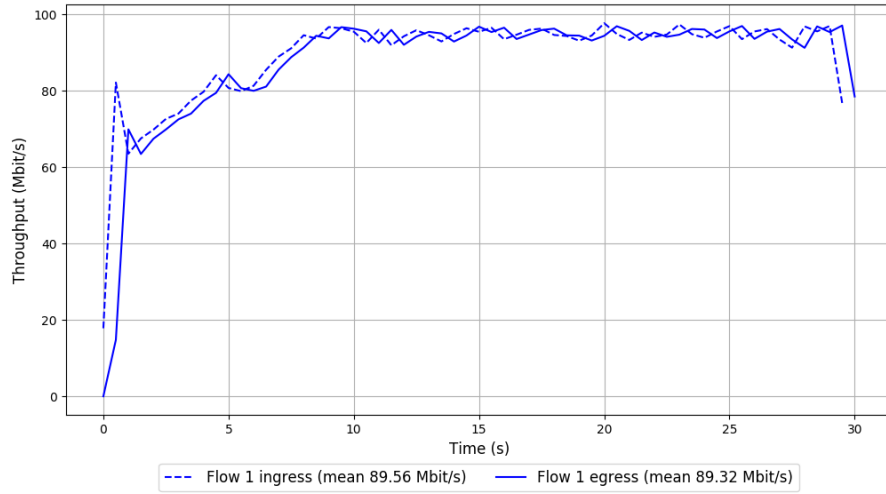
-- Flow 1:

Average throughput: 89.32 Mbit/s

95th percentile per-packet one-way delay: 11.712 ms

Loss rate: 0.27%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-07-11 23:40:19

End at: 2019-07-11 23:40:49

Local clock offset: 4.172 ms

Remote clock offset: -0.222 ms

Below is generated by plot.py at 2019-07-12 01:09:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.24 Mbit/s

95th percentile per-packet one-way delay: 11.569 ms

Loss rate: 0.27%

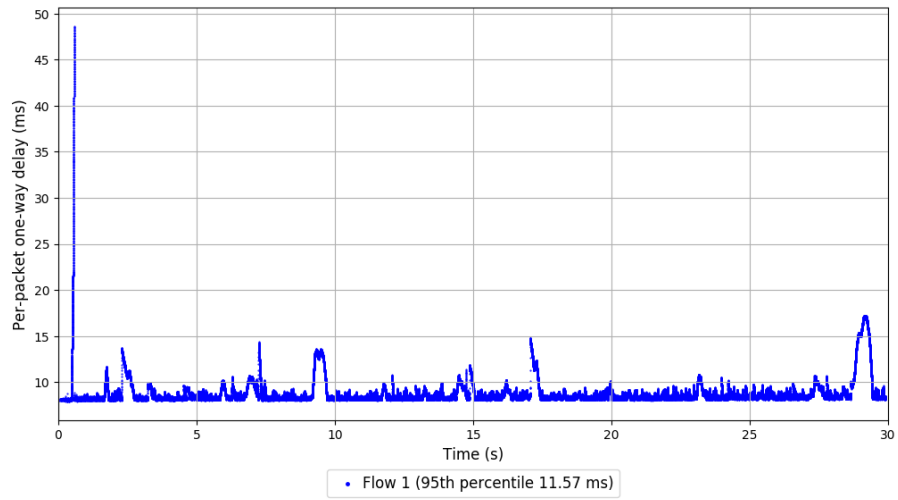
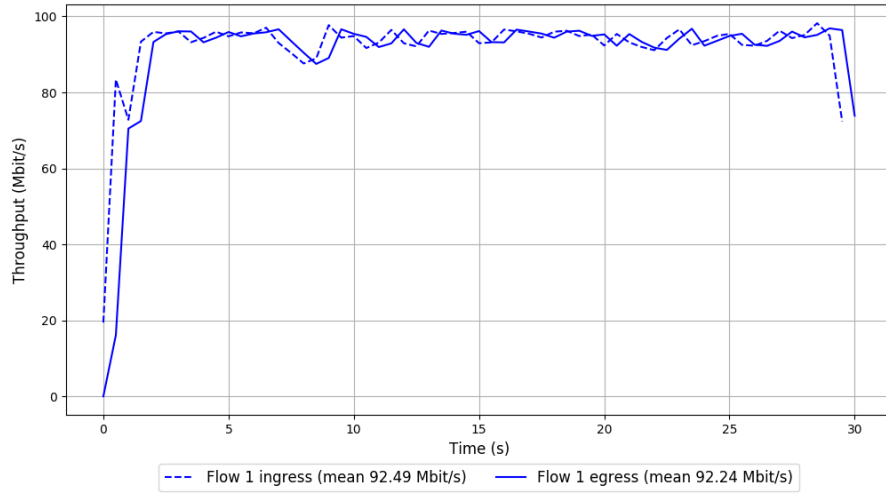
-- Flow 1:

Average throughput: 92.24 Mbit/s

95th percentile per-packet one-way delay: 11.569 ms

Loss rate: 0.27%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

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

End at: 2019-07-12 00:08:24

Local clock offset: 1.447 ms

Remote clock offset: -2.061 ms

Below is generated by plot.py at 2019-07-12 01:09:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.02 Mbit/s

95th percentile per-packet one-way delay: 14.184 ms

Loss rate: 0.33%

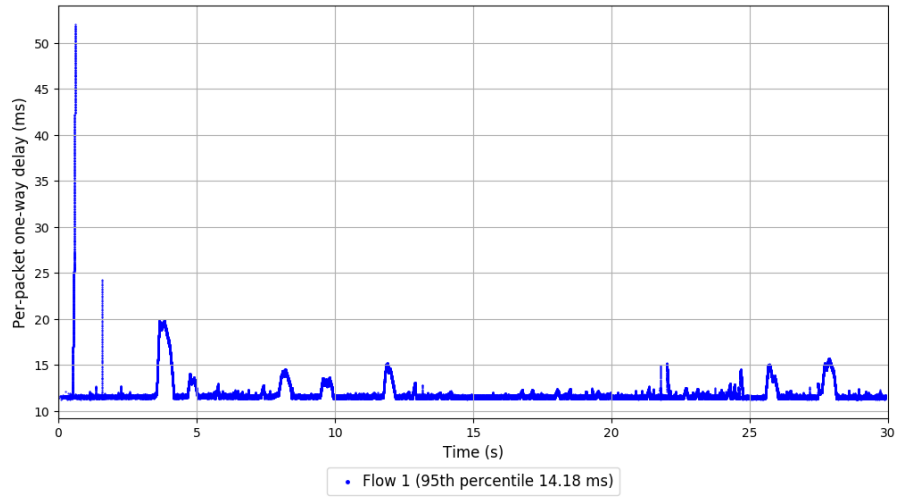
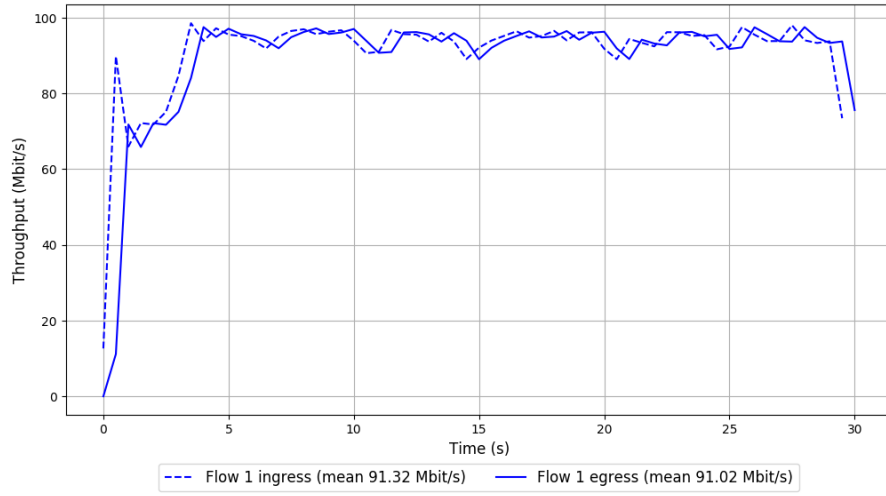
-- Flow 1:

Average throughput: 91.02 Mbit/s

95th percentile per-packet one-way delay: 14.184 ms

Loss rate: 0.33%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-07-12 00:35:18

End at: 2019-07-12 00:35:48

Local clock offset: 1.258 ms

Remote clock offset: -3.211 ms

Below is generated by plot.py at 2019-07-12 01:09:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.03 Mbit/s

95th percentile per-packet one-way delay: 12.024 ms

Loss rate: 0.27%

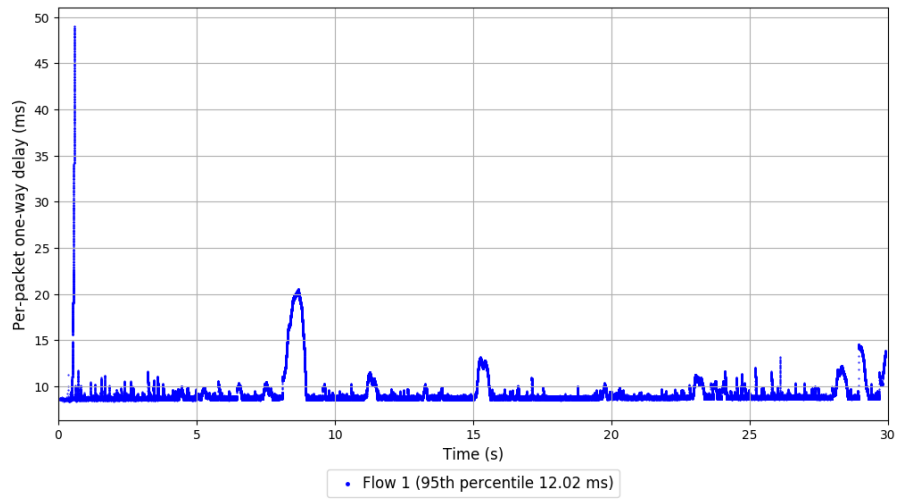
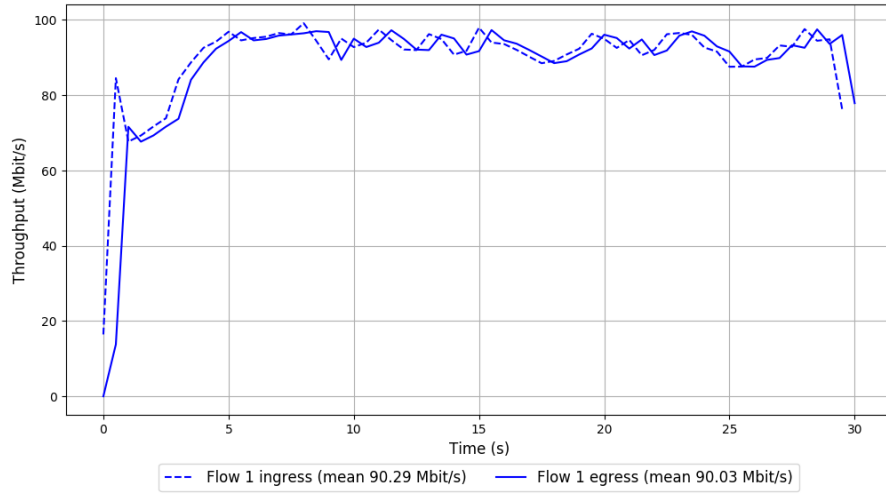
-- Flow 1:

Average throughput: 90.03 Mbit/s

95th percentile per-packet one-way delay: 12.024 ms

Loss rate: 0.27%

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

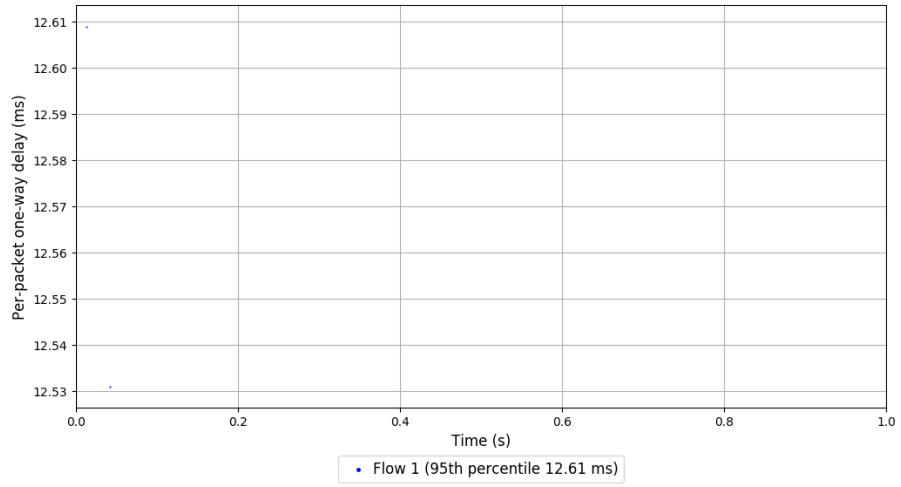
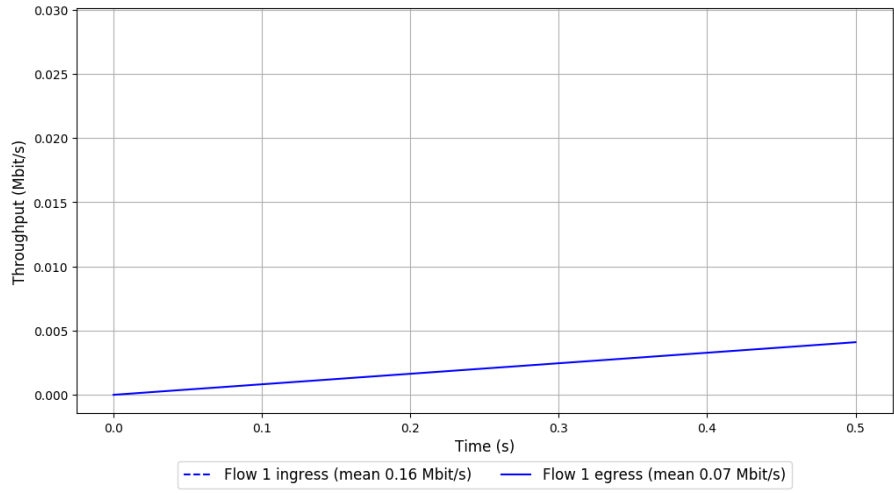
Start at: 2019-07-11 22:41:35

End at: 2019-07-11 22:42:05

Local clock offset: -2.627 ms

Remote clock offset: -0.102 ms

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

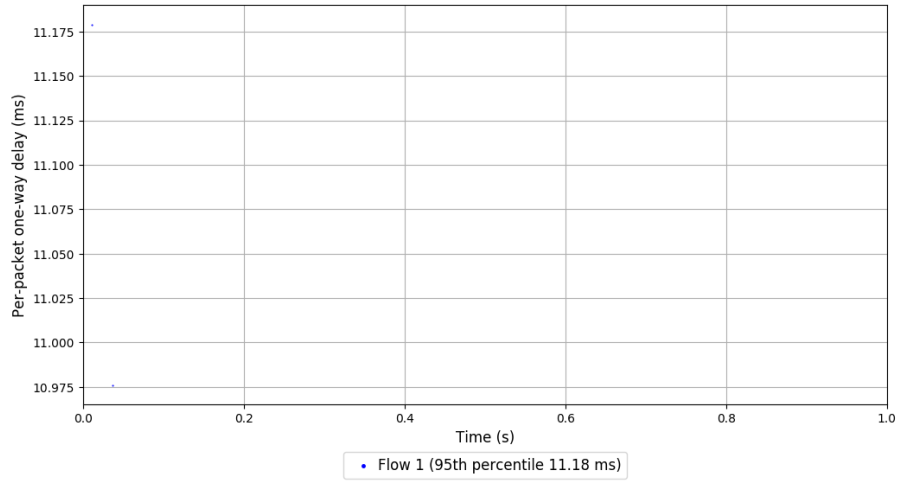
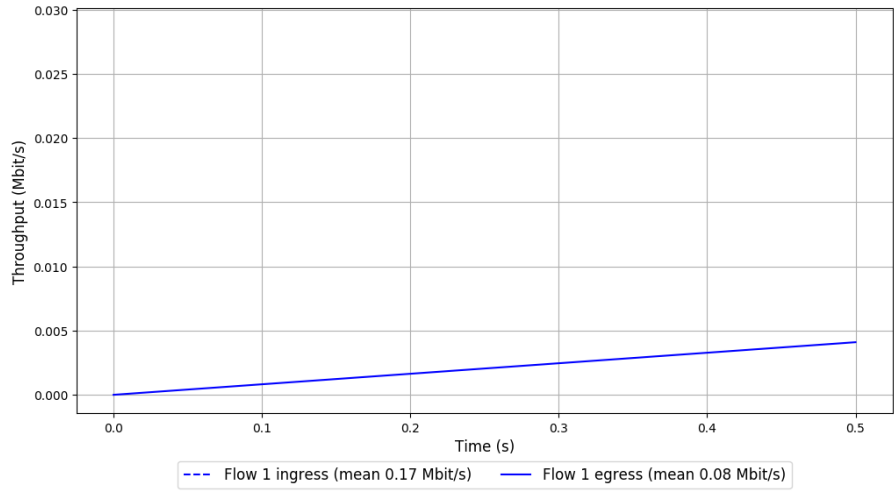
Start at: 2019-07-11 23:09:24

End at: 2019-07-11 23:09:54

Local clock offset: -1.017 ms

Remote clock offset: 1.949 ms

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

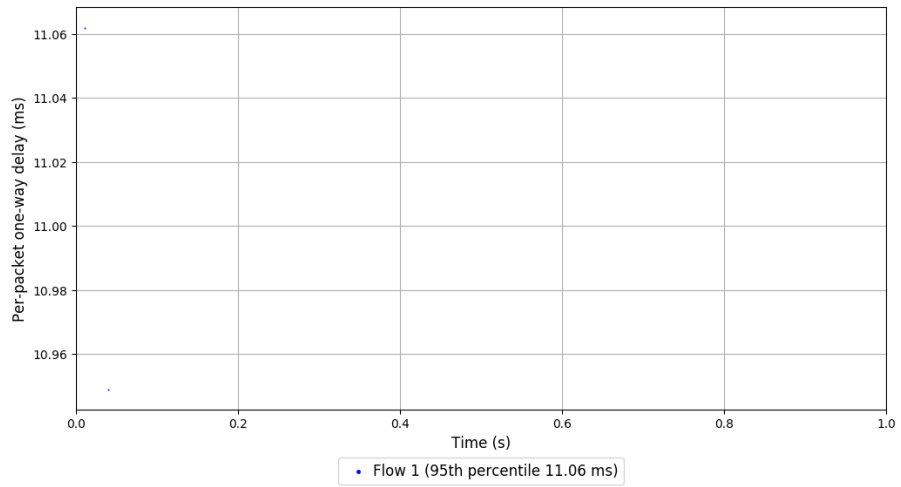
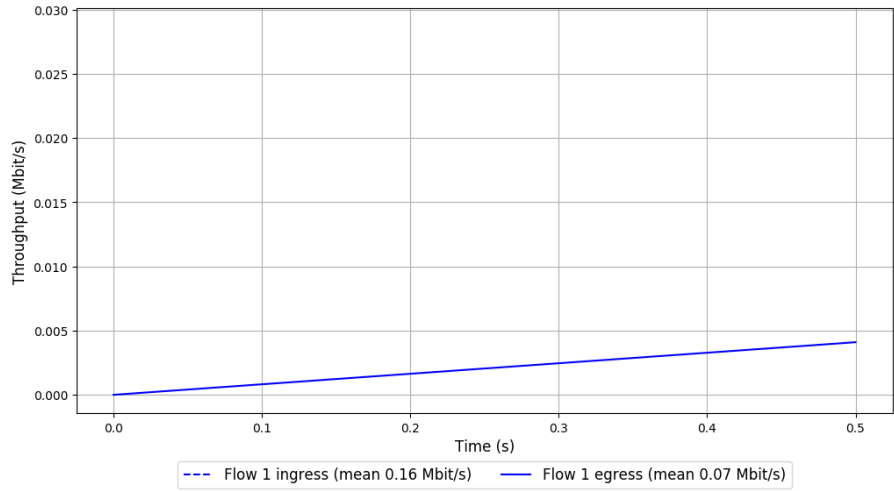
Start at: 2019-07-11 23:36:56

End at: 2019-07-11 23:37:26

Local clock offset: 2.958 ms

Remote clock offset: -0.681 ms

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

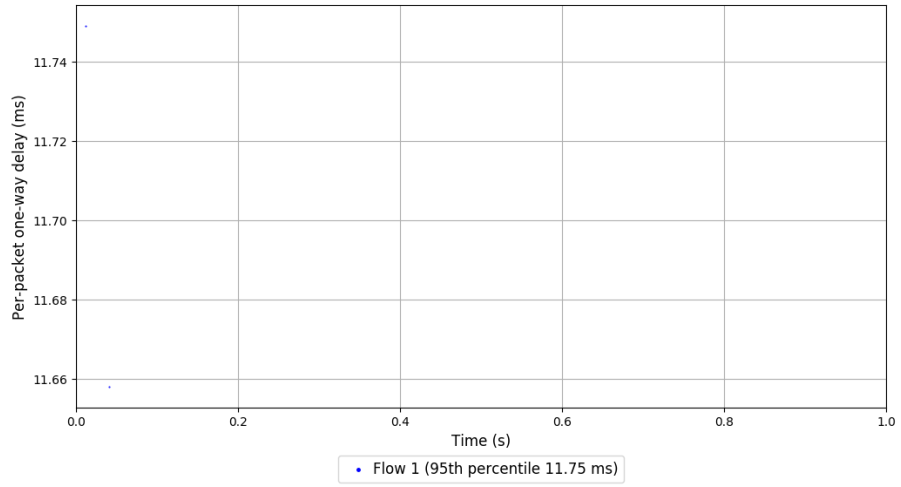
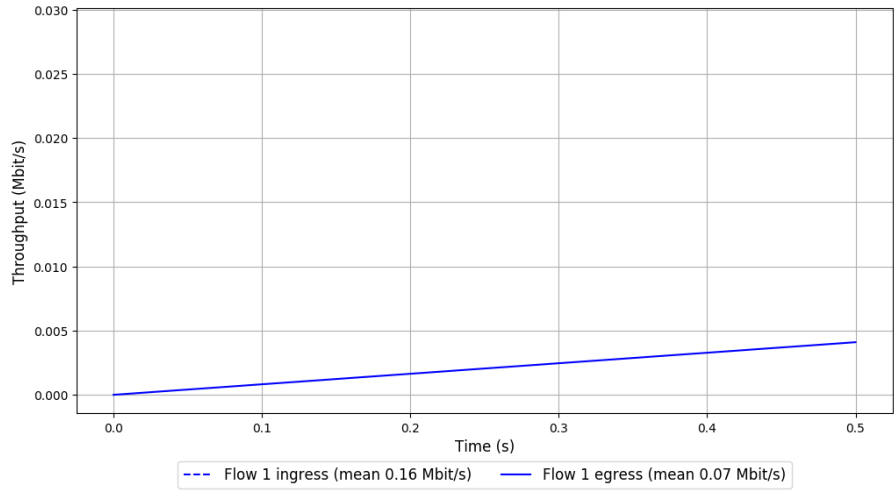
Start at: 2019-07-12 00:04:34

End at: 2019-07-12 00:05:04

Local clock offset: 3.06 ms

Remote clock offset: -1.028 ms

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

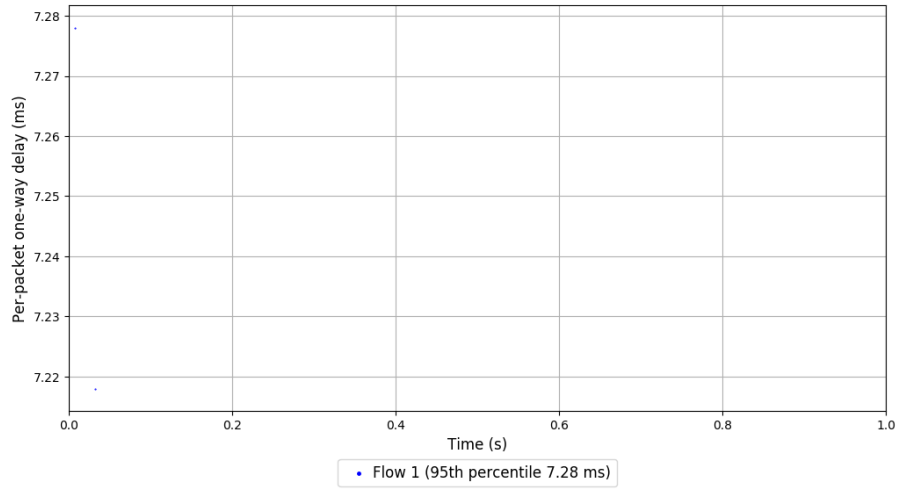
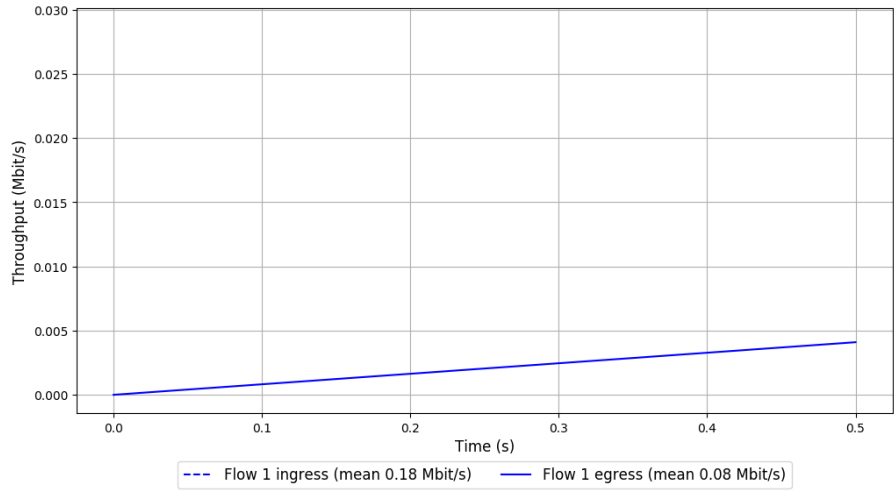
Start at: 2019-07-12 00:31:57

End at: 2019-07-12 00:32:27

Local clock offset: -0.299 ms

Remote clock offset: -4.914 ms

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-07-11 23:05:59

End at: 2019-07-11 23:06:29

Local clock offset: -0.861 ms

Remote clock offset: -0.203 ms

Below is generated by plot.py at 2019-07-12 01:09:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.73 Mbit/s

95th percentile per-packet one-way delay: 48.639 ms

Loss rate: 0.50%

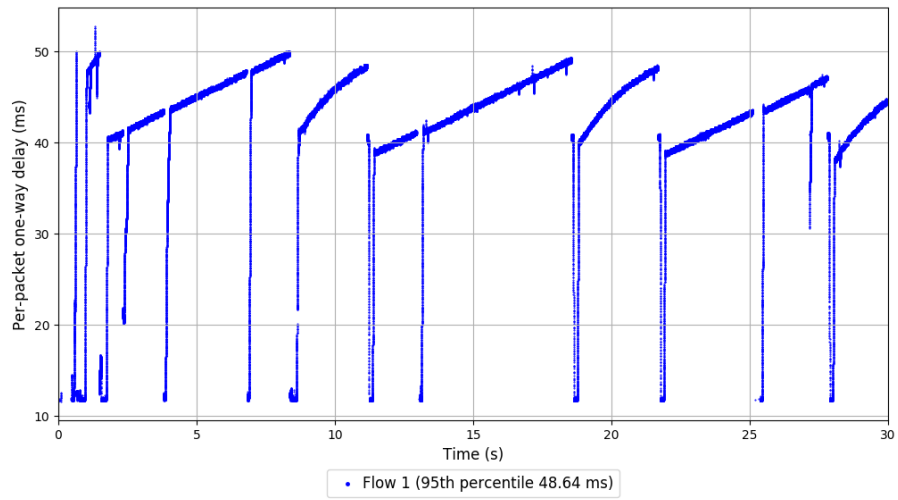
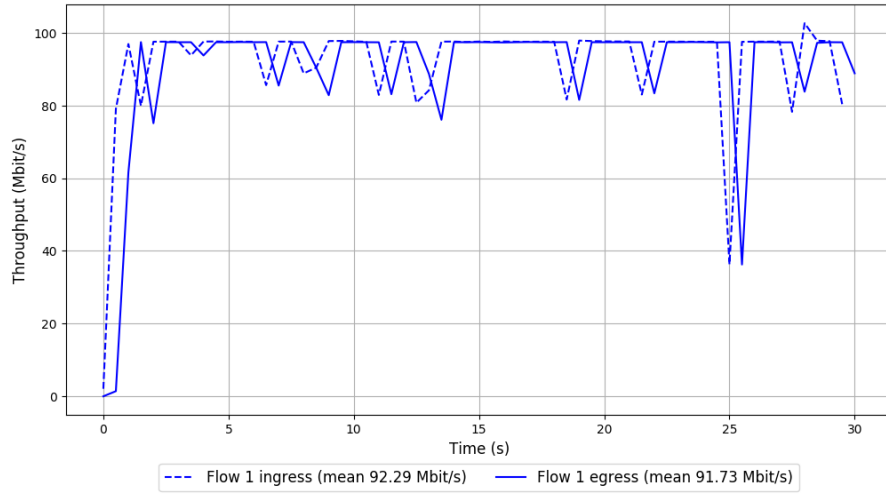
-- Flow 1:

Average throughput: 91.73 Mbit/s

95th percentile per-packet one-way delay: 48.639 ms

Loss rate: 0.50%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-07-11 23:33:27

End at: 2019-07-11 23:33:57

Local clock offset: 0.964 ms

Remote clock offset: -1.617 ms

Below is generated by plot.py at 2019-07-12 01:10:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.01 Mbit/s

95th percentile per-packet one-way delay: 47.813 ms

Loss rate: 0.39%

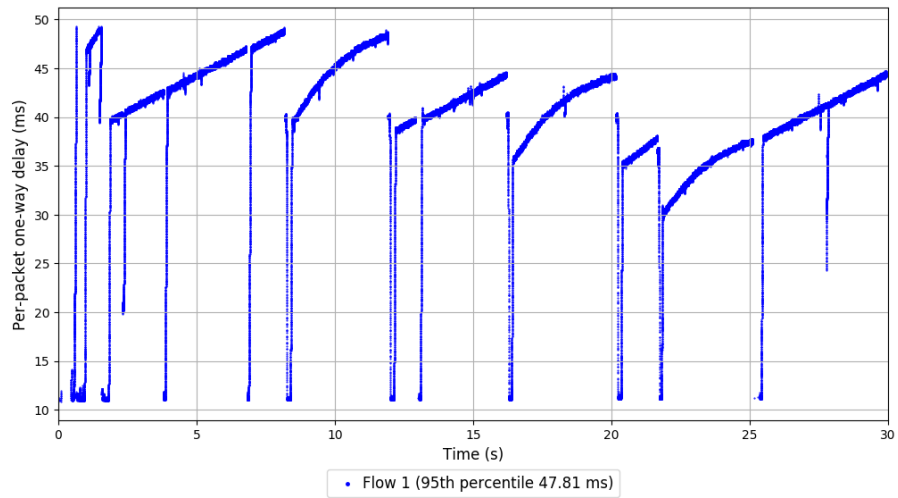
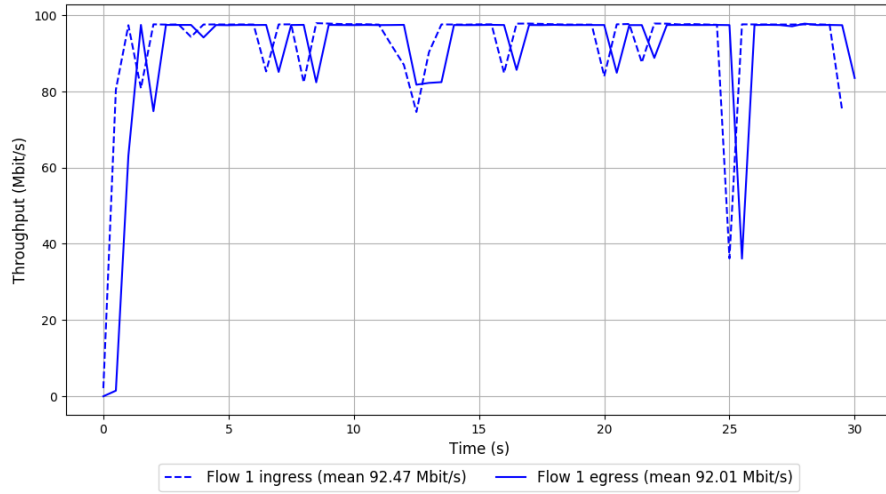
-- Flow 1:

Average throughput: 92.01 Mbit/s

95th percentile per-packet one-way delay: 47.813 ms

Loss rate: 0.39%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-07-12 00:01:08

End at: 2019-07-12 00:01:38

Local clock offset: 3.814 ms

Remote clock offset: -2.301 ms

Below is generated by plot.py at 2019-07-12 01:10:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.66 Mbit/s

95th percentile per-packet one-way delay: 48.286 ms

Loss rate: 0.64%

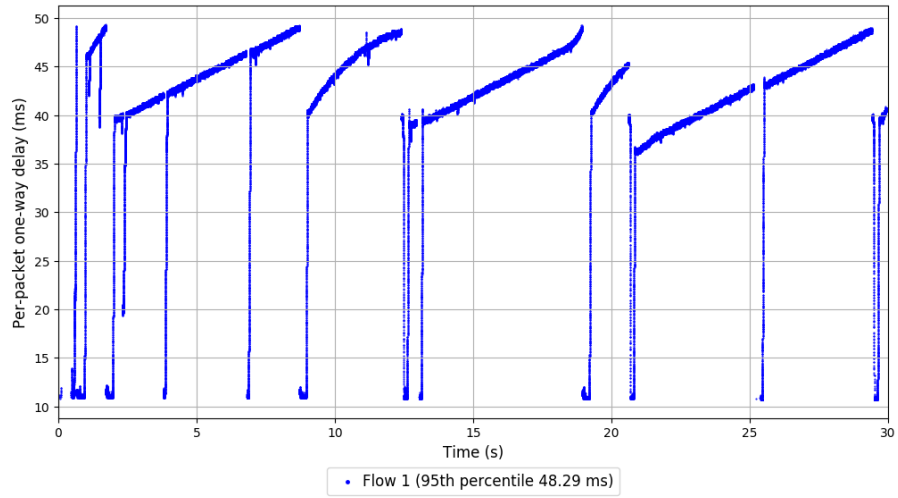
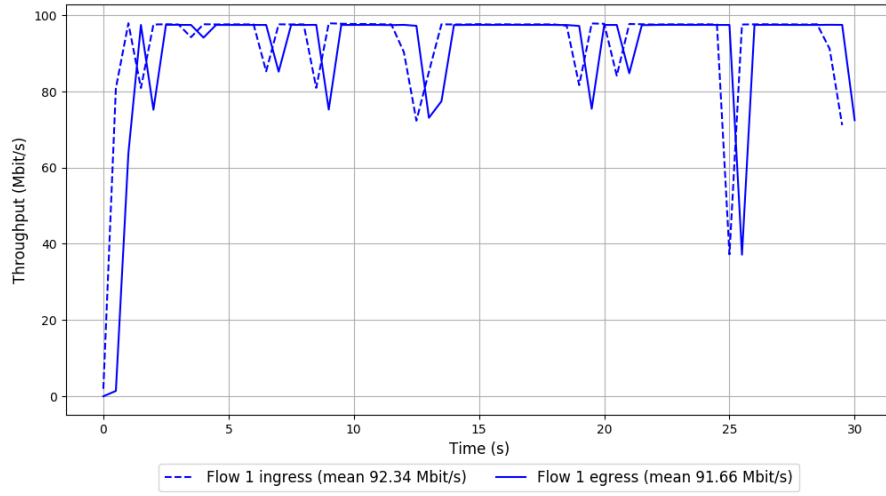
-- Flow 1:

Average throughput: 91.66 Mbit/s

95th percentile per-packet one-way delay: 48.286 ms

Loss rate: 0.64%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-07-12 00:28:33

End at: 2019-07-12 00:29:03

Local clock offset: -1.305 ms

Remote clock offset: -2.591 ms

Below is generated by plot.py at 2019-07-12 01:10:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.43 Mbit/s

95th percentile per-packet one-way delay: 50.095 ms

Loss rate: 0.65%

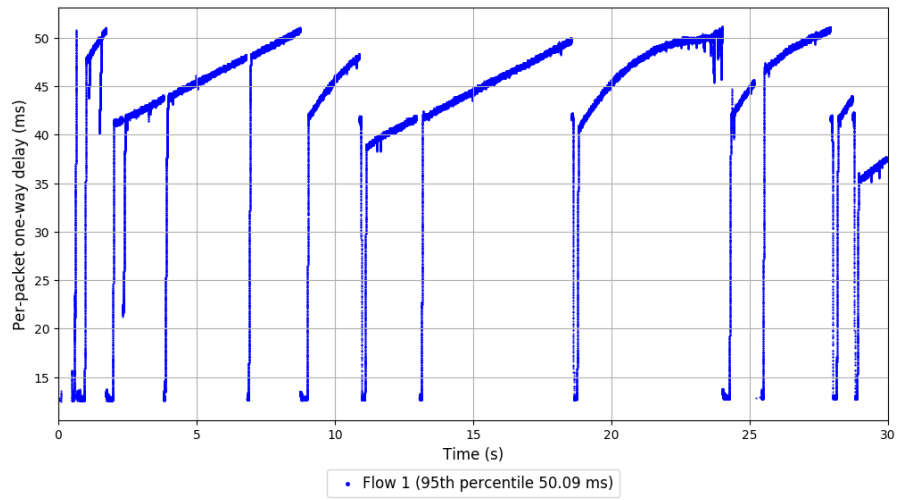
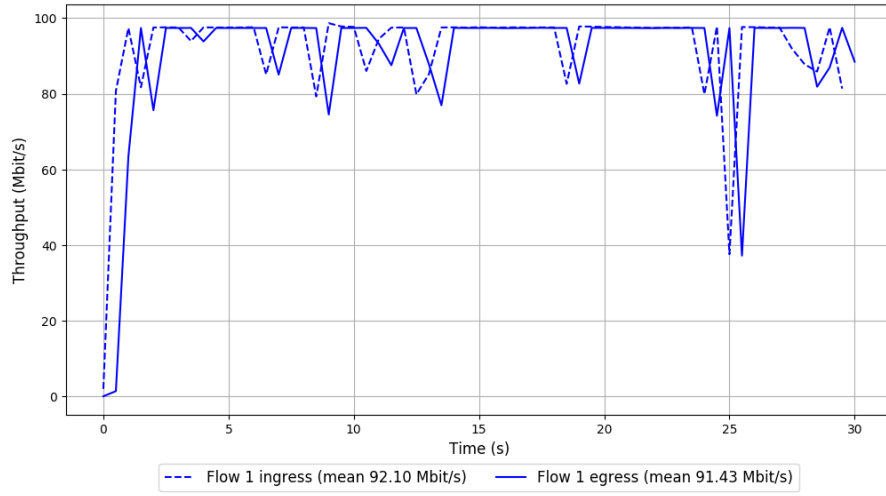
-- Flow 1:

Average throughput: 91.43 Mbit/s

95th percentile per-packet one-way delay: 50.095 ms

Loss rate: 0.65%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-07-12 00:56:10

End at: 2019-07-12 00:56:40

Local clock offset: 2.825 ms

Remote clock offset: -4.52 ms

Below is generated by plot.py at 2019-07-12 01:10:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.06 Mbit/s

95th percentile per-packet one-way delay: 45.204 ms

Loss rate: 0.45%

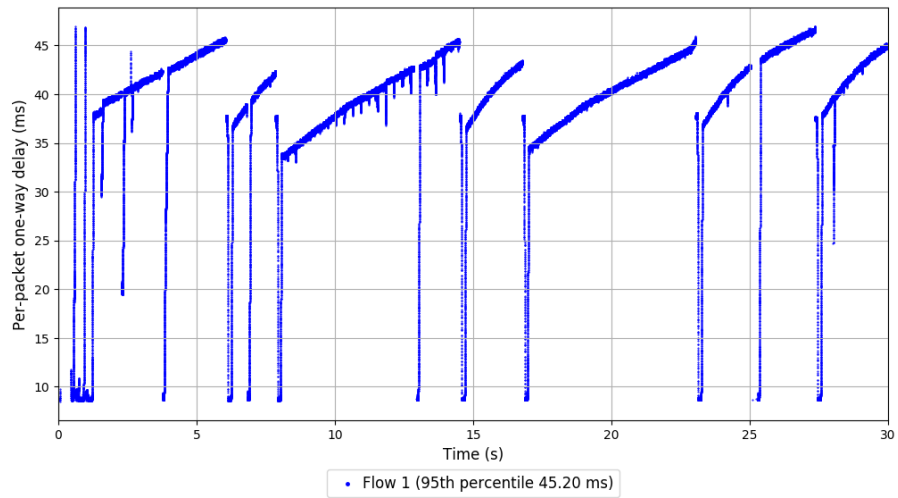
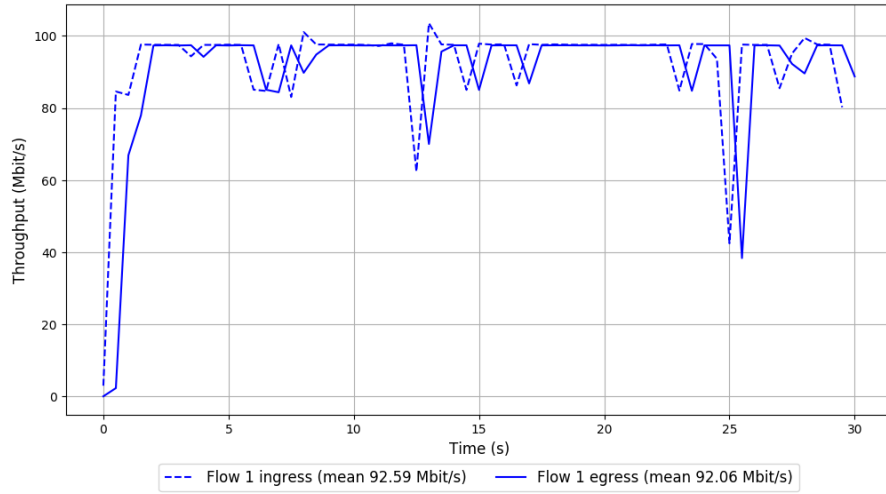
-- Flow 1:

Average throughput: 92.06 Mbit/s

95th percentile per-packet one-way delay: 45.204 ms

Loss rate: 0.45%

Run 5: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2019-07-11 23:07:09

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

Local clock offset: -1.628 ms

Remote clock offset: 0.32 ms

Below is generated by plot.py at 2019-07-12 01:10:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 13.213 ms

Loss rate: 0.00%

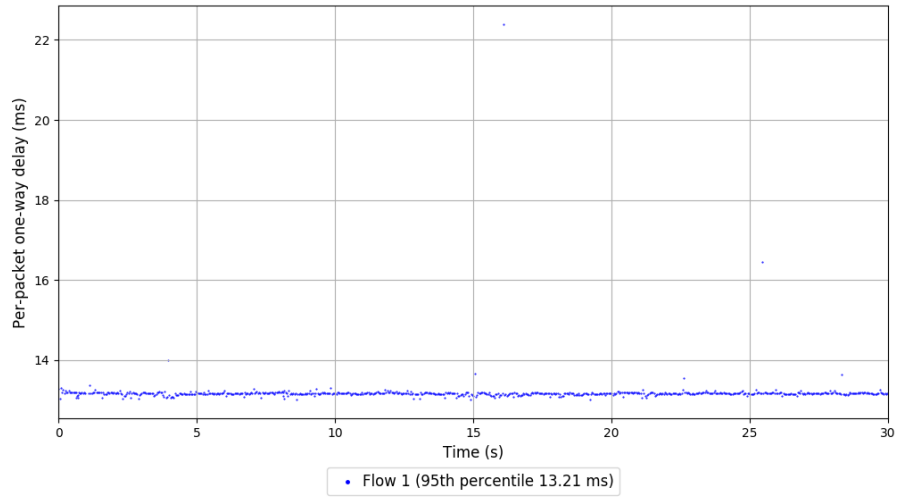
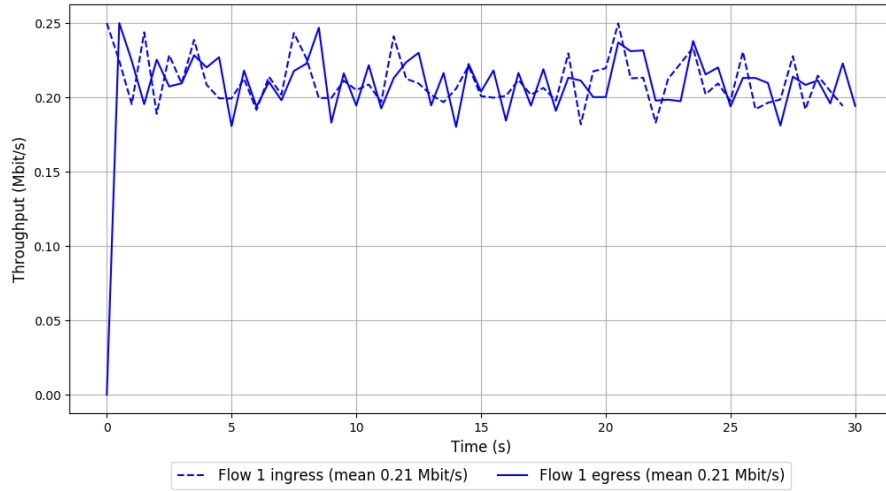
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 13.213 ms

Loss rate: 0.00%

Run 1: Report of SCReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-07-11 23:34:39

End at: 2019-07-11 23:35:09

Local clock offset: 0.986 ms

Remote clock offset: 1.299 ms

Below is generated by plot.py at 2019-07-12 01:10:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 11.448 ms

Loss rate: 0.00%

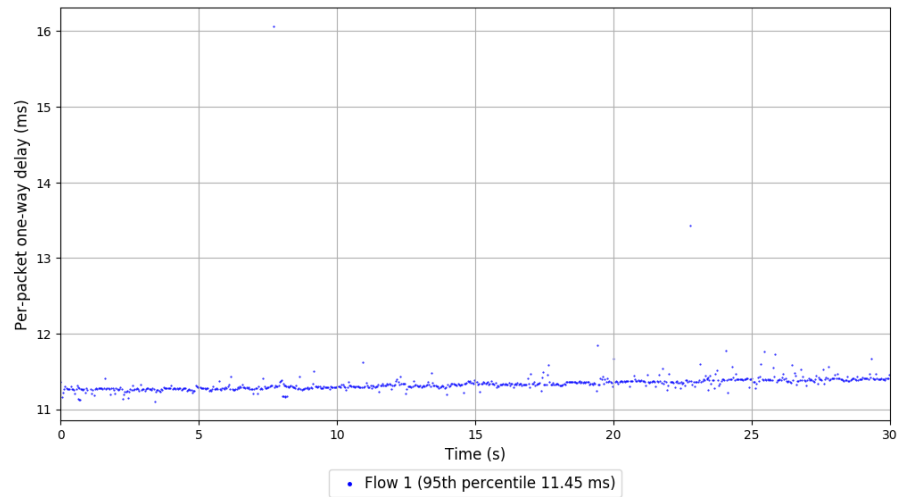
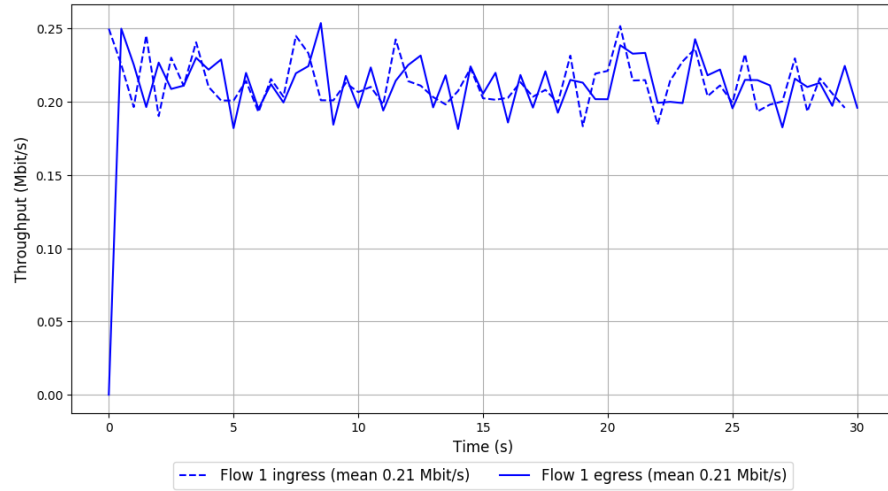
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 11.448 ms

Loss rate: 0.00%

Run 2: Report of SCReAM — Data Link

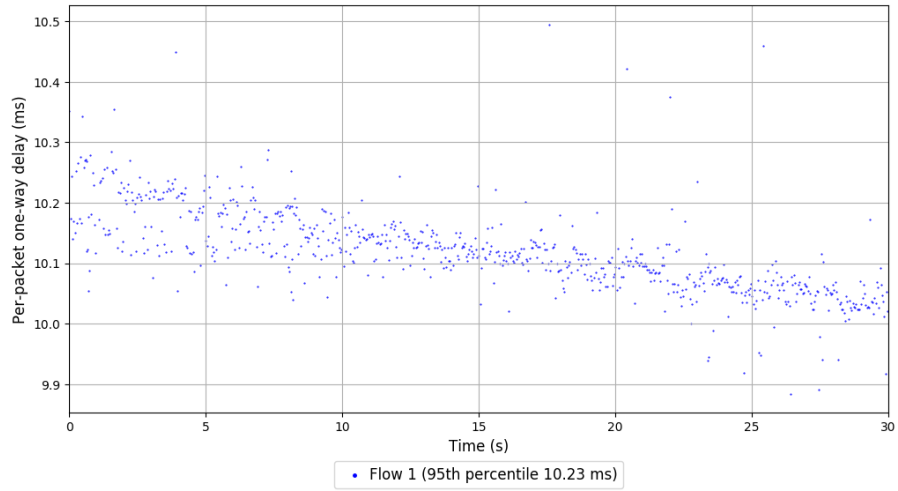
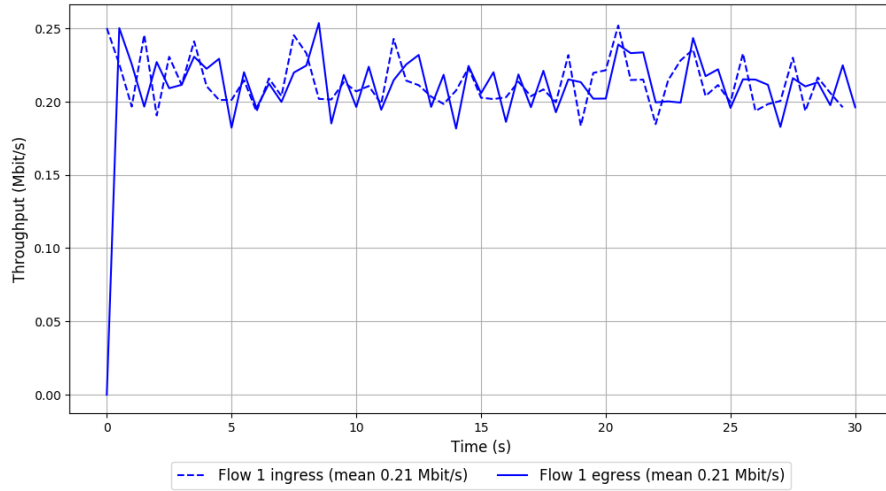


Run 3: Statistics of SCReAM

Start at: 2019-07-12 00:02:18
End at: 2019-07-12 00:02:48
Local clock offset: -3.301 ms
Remote clock offset: -6.304 ms

Below is generated by plot.py at 2019-07-12 01:10:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 10.234 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 10.234 ms
Loss rate: 0.00%

Run 3: Report of SCReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-07-12 00:29:43

End at: 2019-07-12 00:30:13

Local clock offset: -0.525 ms

Remote clock offset: -1.94 ms

Below is generated by plot.py at 2019-07-12 01:10:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 10.277 ms

Loss rate: 0.00%

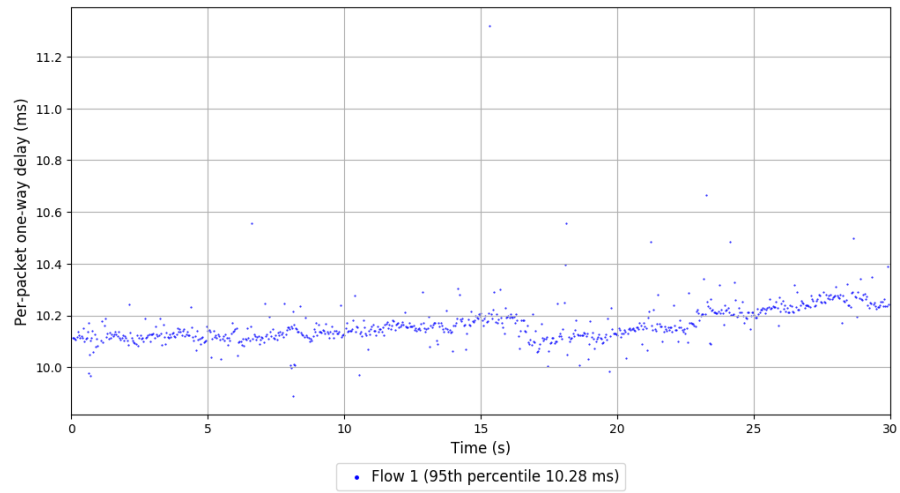
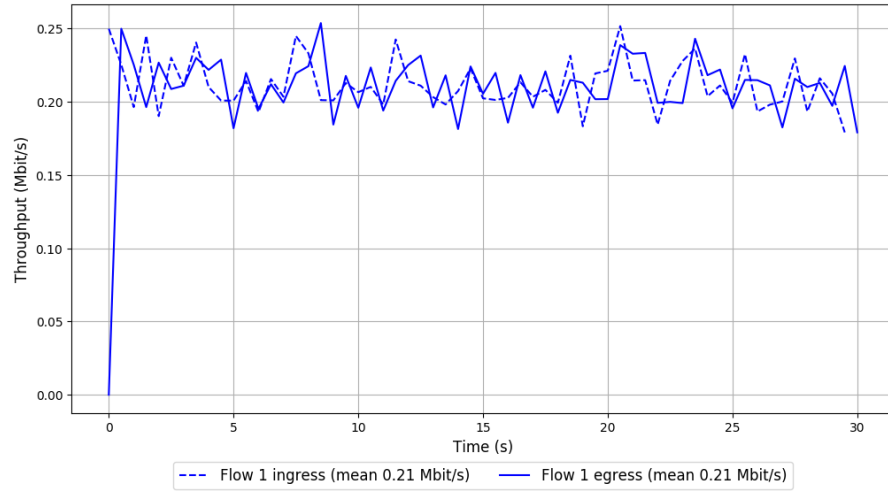
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 10.277 ms

Loss rate: 0.00%

Run 4: Report of SCReAM — Data Link

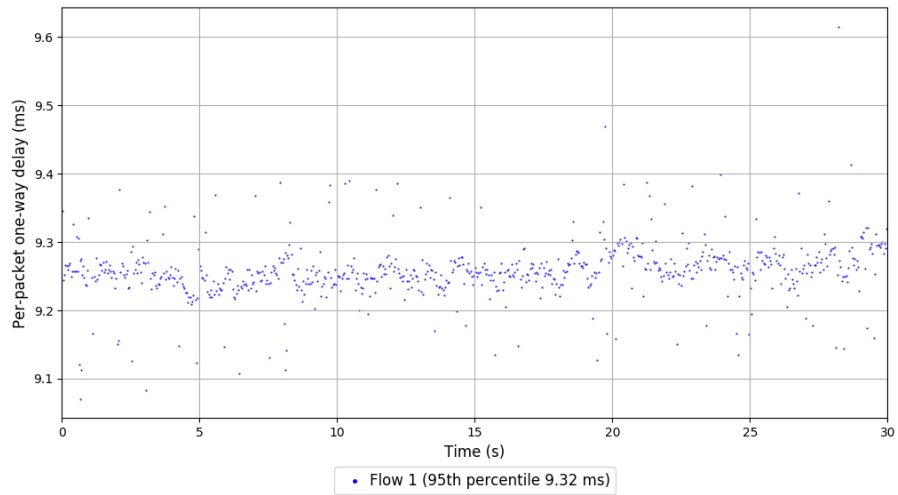
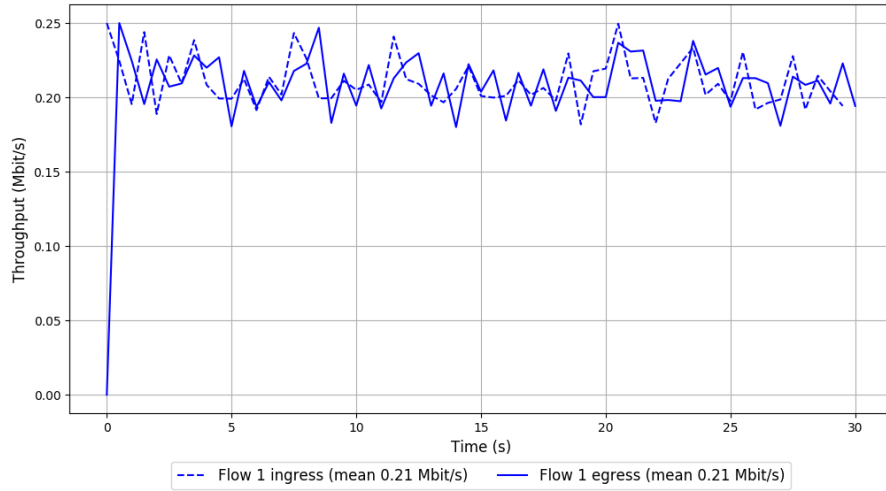


Run 5: Statistics of SCReAM

Start at: 2019-07-12 00:57:22
End at: 2019-07-12 00:57:52
Local clock offset: 3.178 ms
Remote clock offset: -6.948 ms

Below is generated by plot.py at 2019-07-12 01:10:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 9.320 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 9.320 ms
Loss rate: 0.00%

Run 5: Report of SCReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-07-11 22:54:19

End at: 2019-07-11 22:54:49

Local clock offset: -1.227 ms

Remote clock offset: 0.491 ms

Below is generated by plot.py at 2019-07-12 01:10:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.61 Mbit/s

95th percentile per-packet one-way delay: 17.070 ms

Loss rate: 0.00%

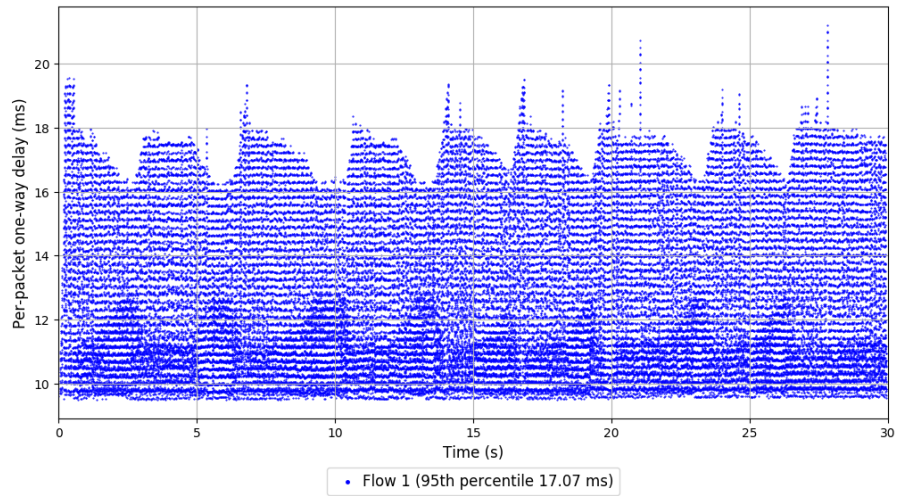
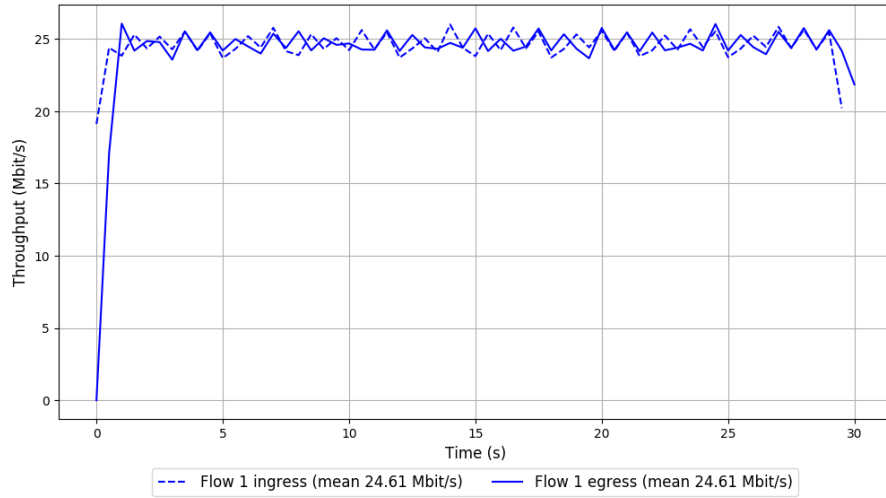
-- Flow 1:

Average throughput: 24.61 Mbit/s

95th percentile per-packet one-way delay: 17.070 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

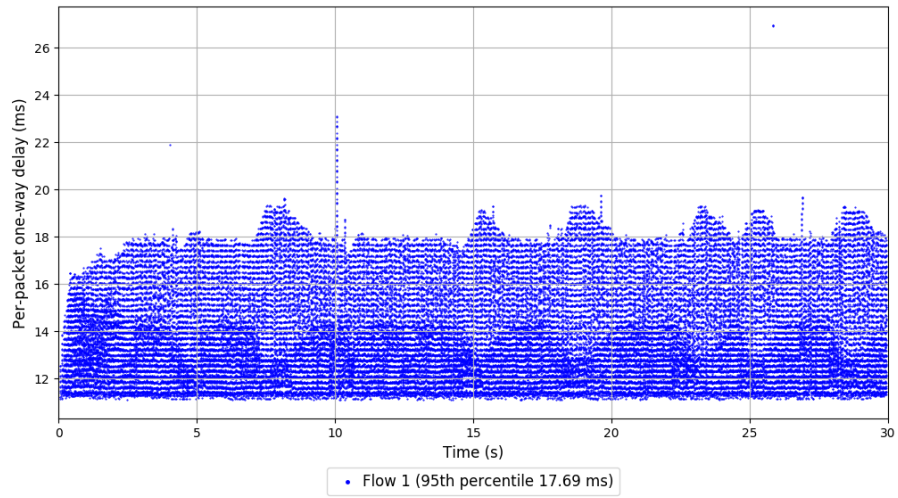
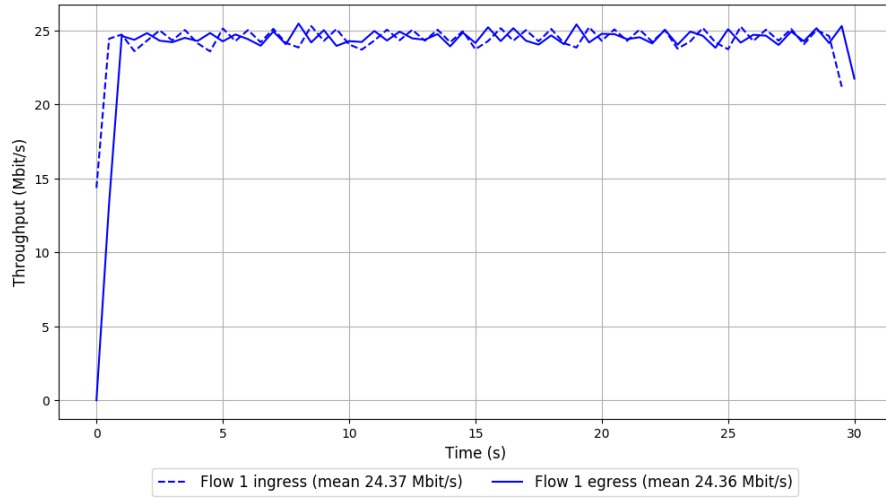


Run 2: Statistics of Sprout

Start at: 2019-07-11 23:21:58
End at: 2019-07-11 23:22:28
Local clock offset: -0.467 ms
Remote clock offset: -0.444 ms

Below is generated by plot.py at 2019-07-12 01:10:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.36 Mbit/s
95th percentile per-packet one-way delay: 17.689 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.36 Mbit/s
95th percentile per-packet one-way delay: 17.689 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-07-11 23:49:43

End at: 2019-07-11 23:50:13

Local clock offset: 4.399 ms

Remote clock offset: 0.055 ms

Below is generated by plot.py at 2019-07-12 01:10:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.93 Mbit/s

95th percentile per-packet one-way delay: 17.213 ms

Loss rate: 12.81%

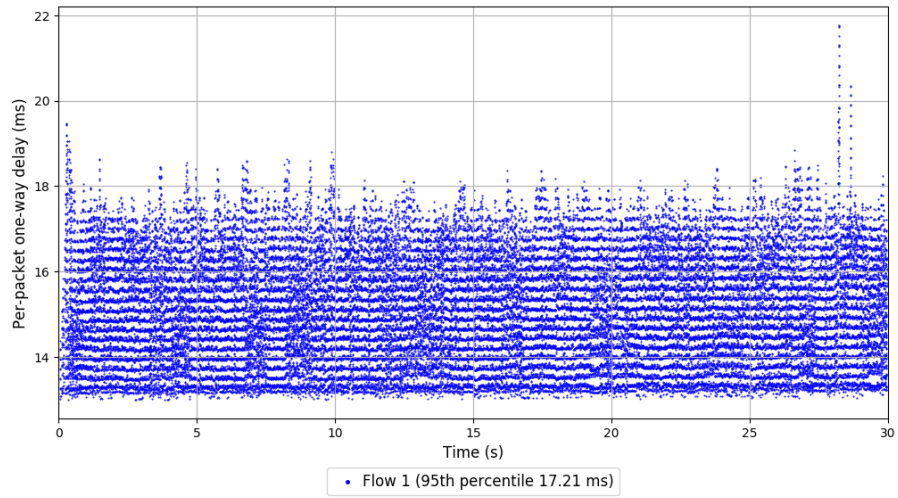
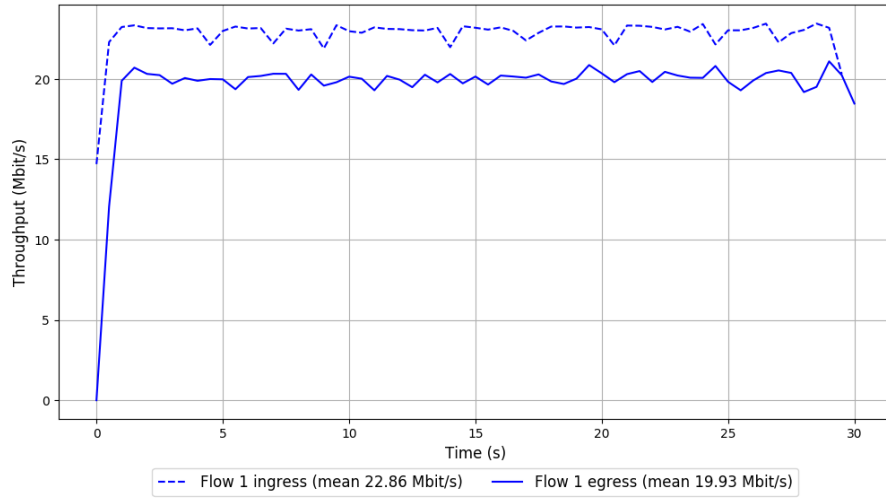
-- Flow 1:

Average throughput: 19.93 Mbit/s

95th percentile per-packet one-way delay: 17.213 ms

Loss rate: 12.81%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-07-12 00:17:11

End at: 2019-07-12 00:17:41

Local clock offset: -0.244 ms

Remote clock offset: -1.4 ms

Below is generated by plot.py at 2019-07-12 01:10:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.57 Mbit/s

95th percentile per-packet one-way delay: 17.111 ms

Loss rate: 0.00%

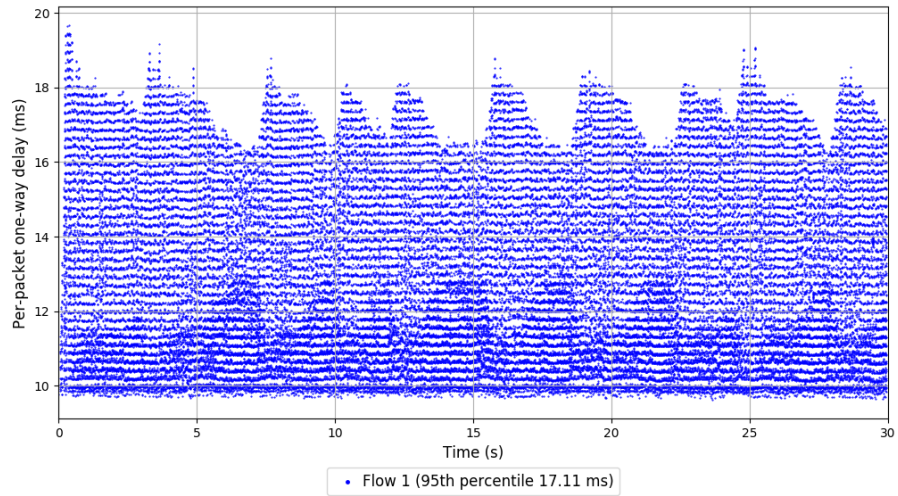
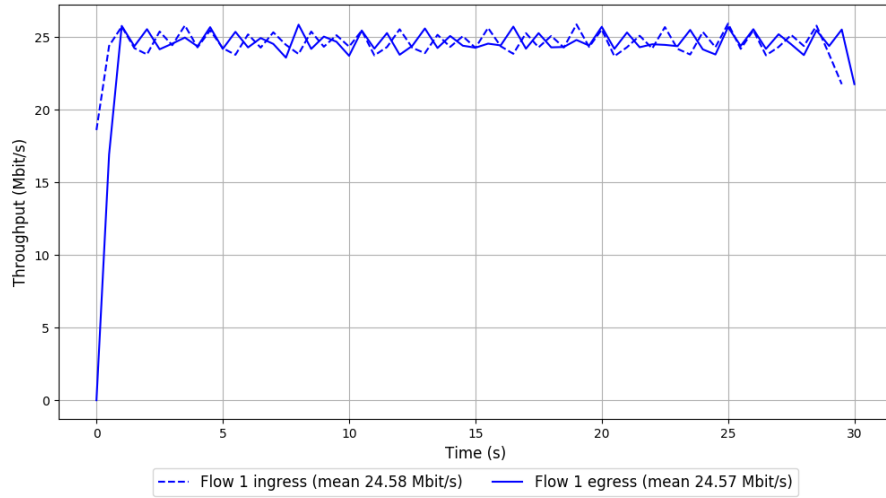
-- Flow 1:

Average throughput: 24.57 Mbit/s

95th percentile per-packet one-way delay: 17.111 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

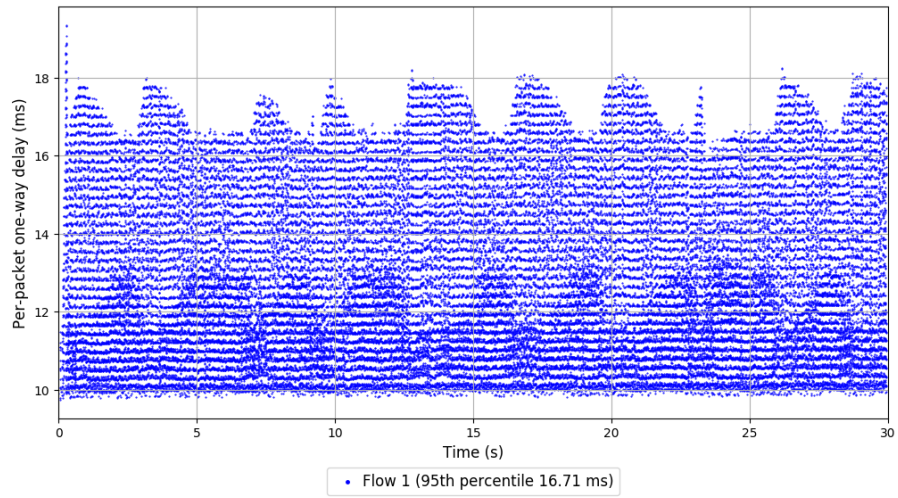
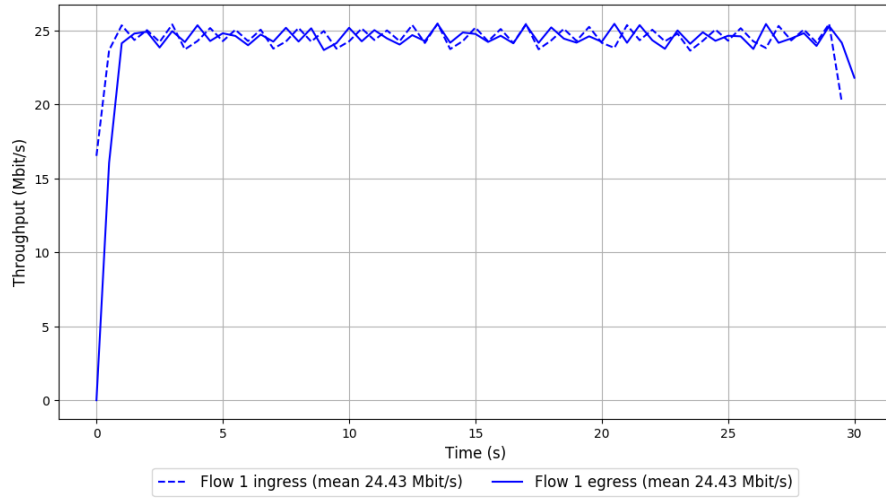


Run 5: Statistics of Sprout

Start at: 2019-07-12 00:44:37
End at: 2019-07-12 00:45:07
Local clock offset: 1.757 ms
Remote clock offset: -6.371 ms

```
# Below is generated by plot.py at 2019-07-12 01:10:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.43 Mbit/s
95th percentile per-packet one-way delay: 16.710 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.43 Mbit/s
95th percentile per-packet one-way delay: 16.710 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

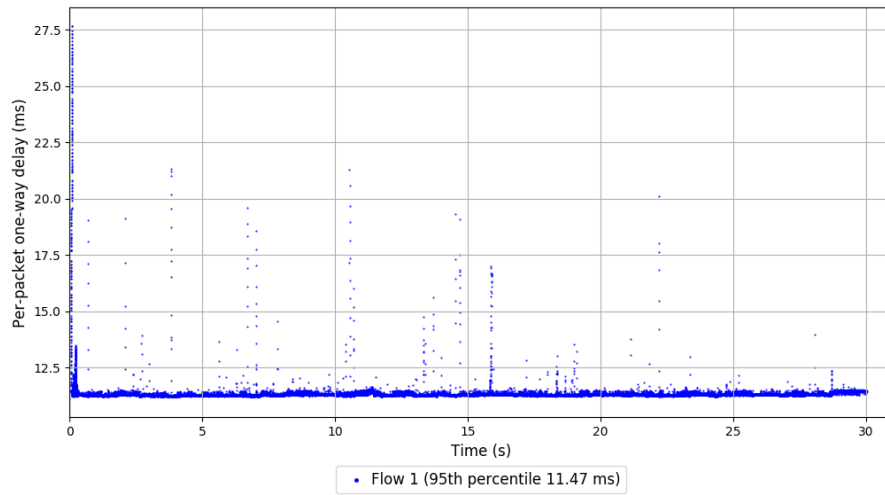
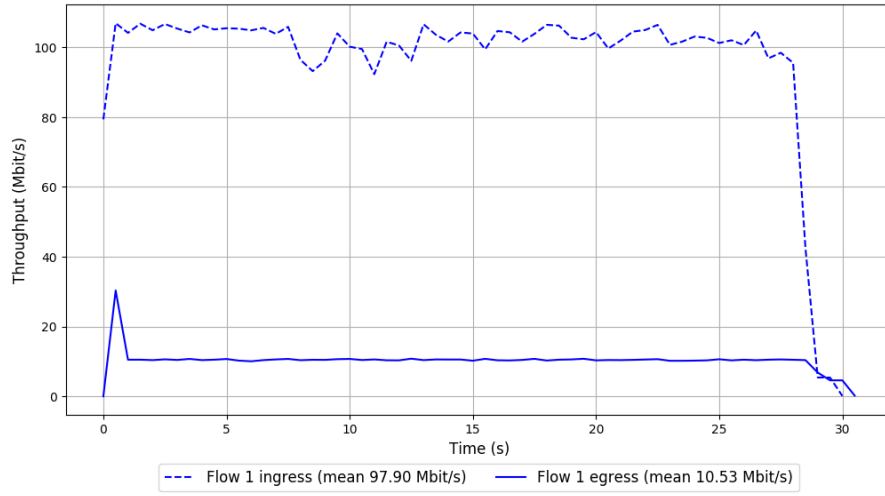


Run 1: Statistics of TaoVA-100x

Start at: 2019-07-11 23:01:16
End at: 2019-07-11 23:01:46
Local clock offset: -1.653 ms
Remote clock offset: -1.663 ms

Below is generated by plot.py at 2019-07-12 01:10:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 10.53 Mbit/s
95th percentile per-packet one-way delay: 11.472 ms
Loss rate: 89.24%
-- Flow 1:
Average throughput: 10.53 Mbit/s
95th percentile per-packet one-way delay: 11.472 ms
Loss rate: 89.24%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-07-11 23:28:50

End at: 2019-07-11 23:29:20

Local clock offset: -1.434 ms

Remote clock offset: 0.486 ms

Below is generated by plot.py at 2019-07-12 01:10:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.52 Mbit/s

95th percentile per-packet one-way delay: 13.753 ms

Loss rate: 74.03%

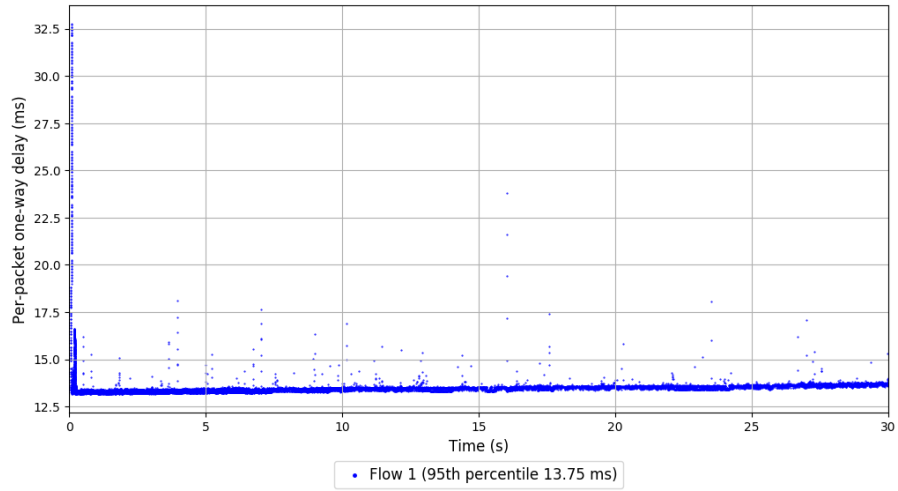
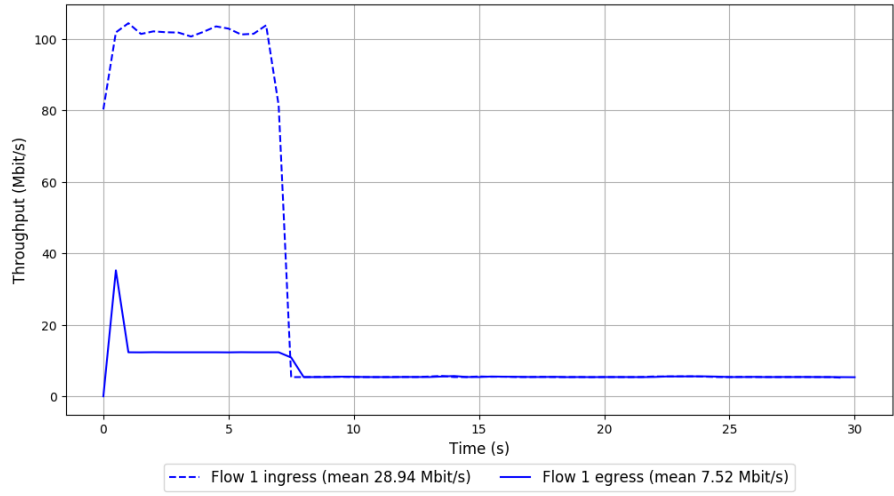
-- Flow 1:

Average throughput: 7.52 Mbit/s

95th percentile per-packet one-way delay: 13.753 ms

Loss rate: 74.03%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-07-11 23:56:32

End at: 2019-07-11 23:57:02

Local clock offset: 5.096 ms

Remote clock offset: -0.061 ms

Below is generated by plot.py at 2019-07-12 01:10:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.83 Mbit/s

95th percentile per-packet one-way delay: 13.206 ms

Loss rate: 80.00%

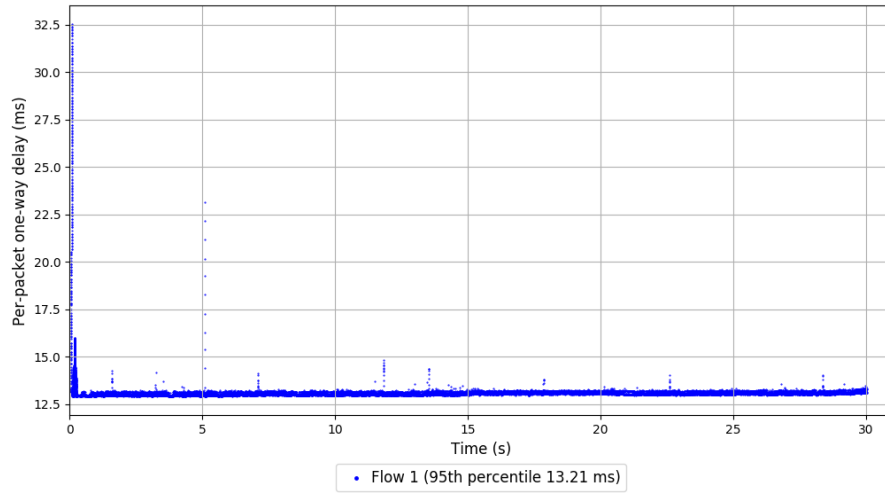
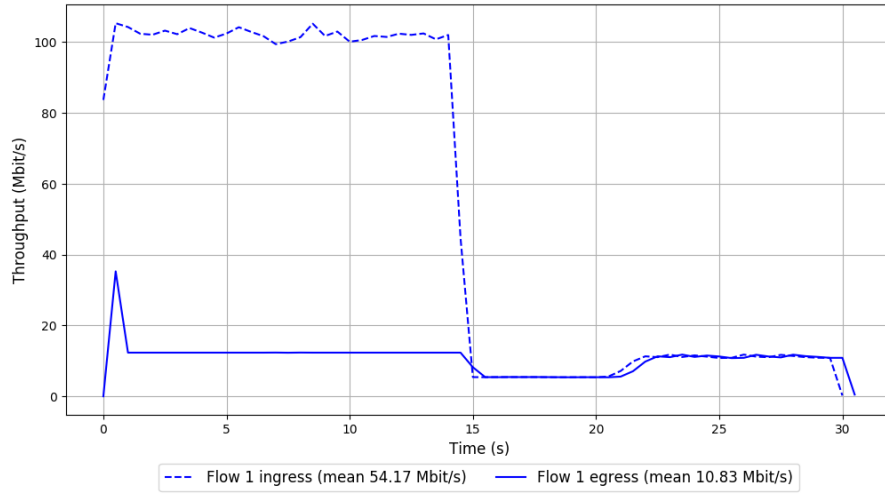
-- Flow 1:

Average throughput: 10.83 Mbit/s

95th percentile per-packet one-way delay: 13.206 ms

Loss rate: 80.00%

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

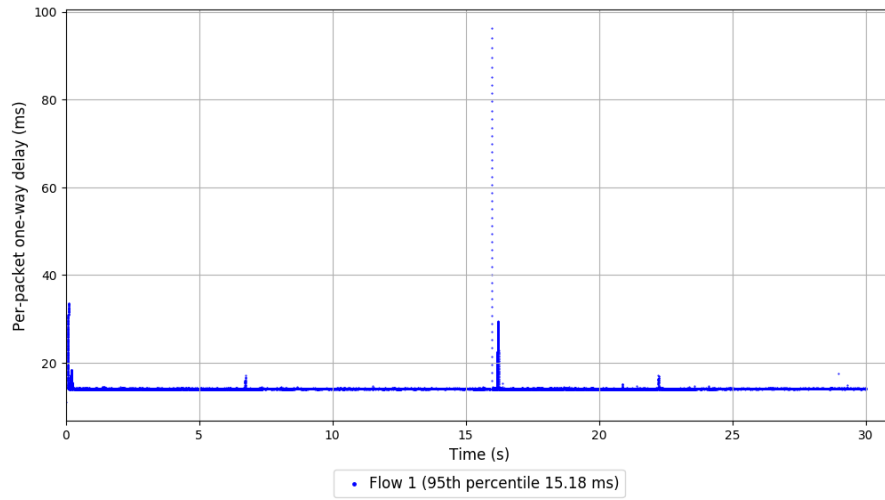
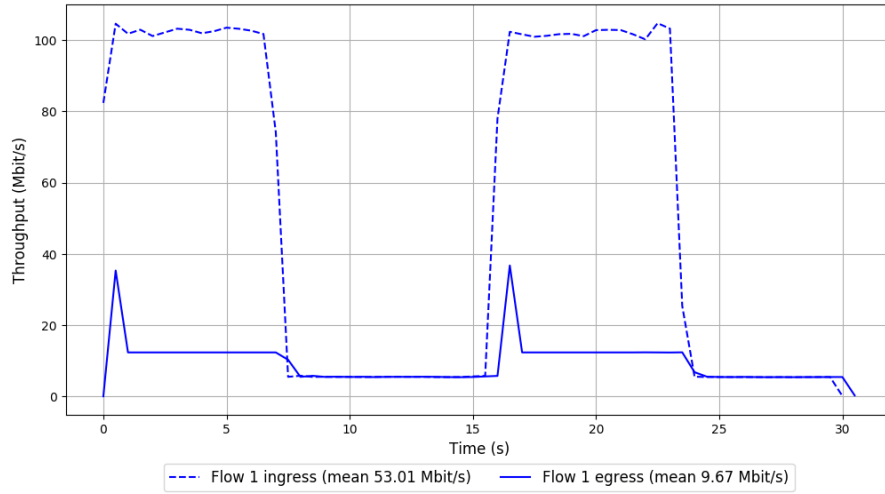


Run 4: Statistics of TaoVA-100x

Start at: 2019-07-12 00:23:59
End at: 2019-07-12 00:24:29
Local clock offset: -1.022 ms
Remote clock offset: -0.897 ms

Below is generated by plot.py at 2019-07-12 01:10:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.67 Mbit/s
95th percentile per-packet one-way delay: 15.178 ms
Loss rate: 81.77%
-- Flow 1:
Average throughput: 9.67 Mbit/s
95th percentile per-packet one-way delay: 15.178 ms
Loss rate: 81.77%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-07-12 00:51:30

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

Local clock offset: 3.203 ms

Remote clock offset: -4.663 ms

Below is generated by plot.py at 2019-07-12 01:10:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.53 Mbit/s

95th percentile per-packet one-way delay: 11.665 ms

Loss rate: 73.97%

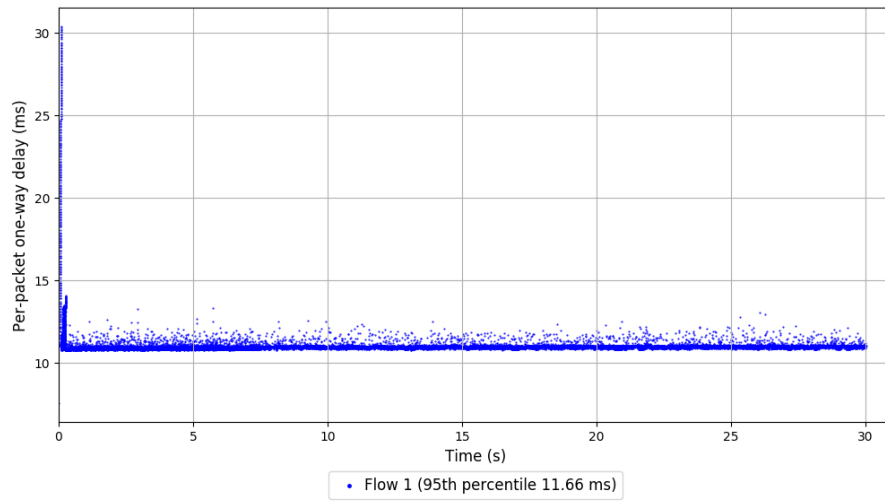
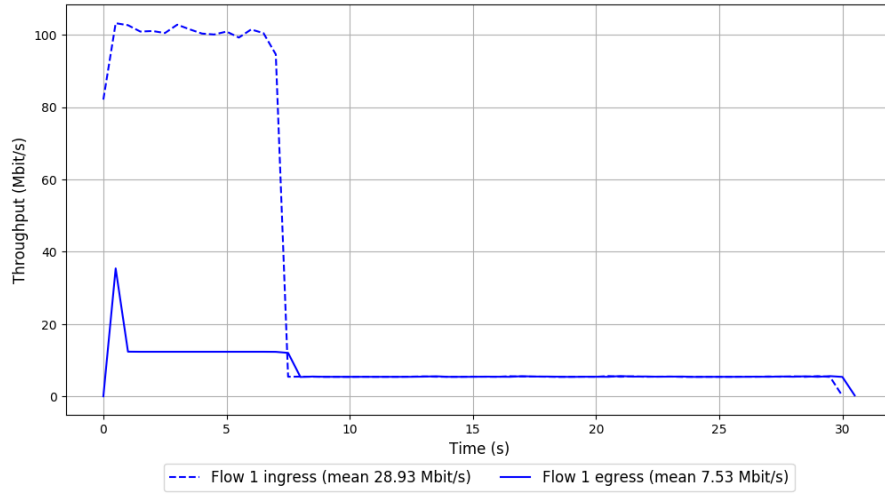
-- Flow 1:

Average throughput: 7.53 Mbit/s

95th percentile per-packet one-way delay: 11.665 ms

Loss rate: 73.97%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-07-11 22:48:30

End at: 2019-07-11 22:49:00

Local clock offset: -5.549 ms

Remote clock offset: 0.35 ms

Below is generated by plot.py at 2019-07-12 01:11:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.81 Mbit/s

95th percentile per-packet one-way delay: 19.674 ms

Loss rate: 0.42%

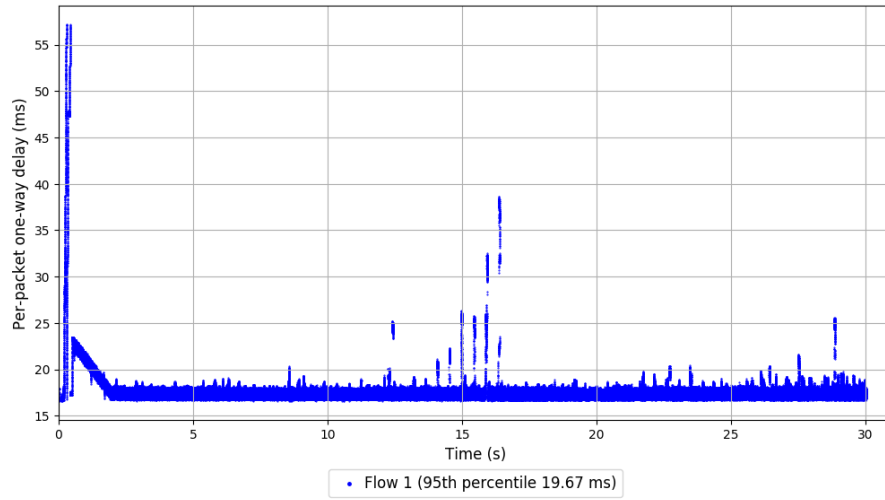
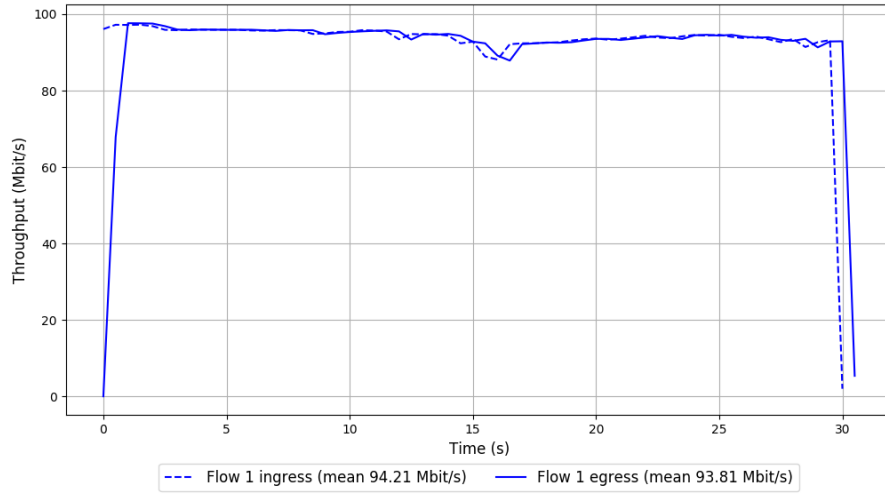
-- Flow 1:

Average throughput: 93.81 Mbit/s

95th percentile per-packet one-way delay: 19.674 ms

Loss rate: 0.42%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-07-11 23:16:11

End at: 2019-07-11 23:16:41

Local clock offset: -1.724 ms

Remote clock offset: 0.559 ms

Below is generated by plot.py at 2019-07-12 01:11:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.87 Mbit/s

95th percentile per-packet one-way delay: 15.881 ms

Loss rate: 0.43%

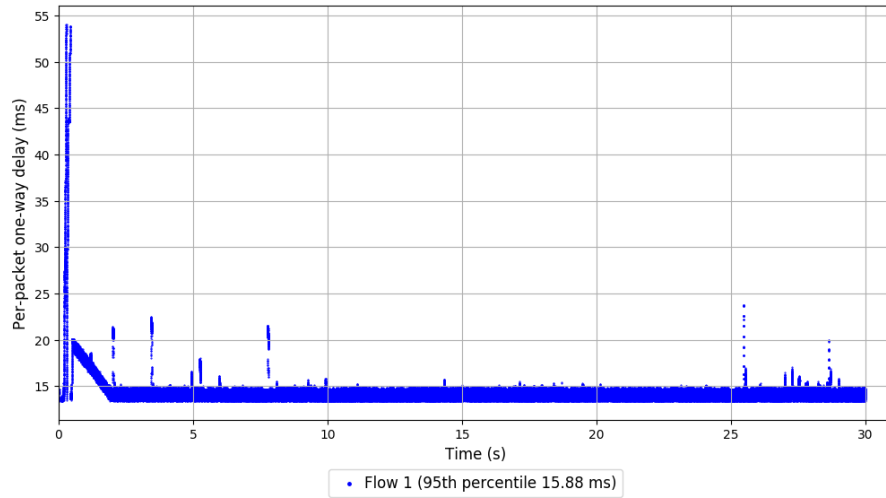
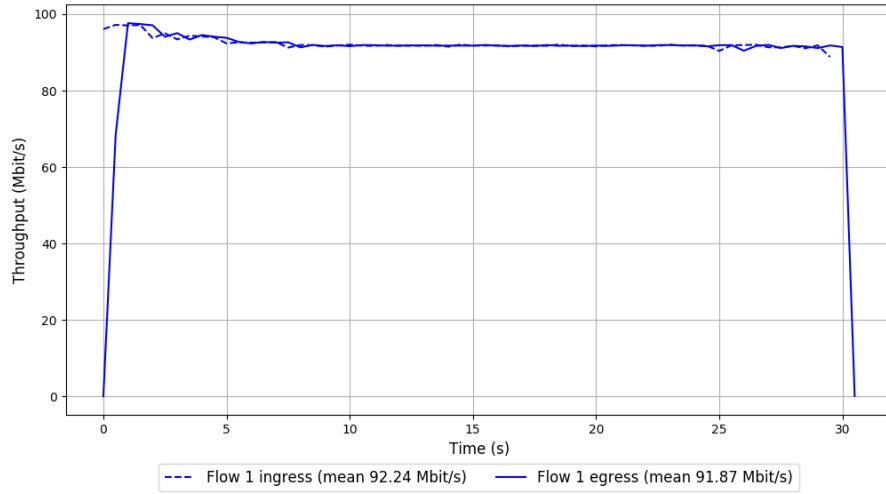
-- Flow 1:

Average throughput: 91.87 Mbit/s

95th percentile per-packet one-way delay: 15.881 ms

Loss rate: 0.43%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-07-11 23:43:50

End at: 2019-07-11 23:44:20

Local clock offset: 3.356 ms

Remote clock offset: 1.992 ms

Below is generated by plot.py at 2019-07-12 01:11:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.11 Mbit/s

95th percentile per-packet one-way delay: 17.319 ms

Loss rate: 0.42%

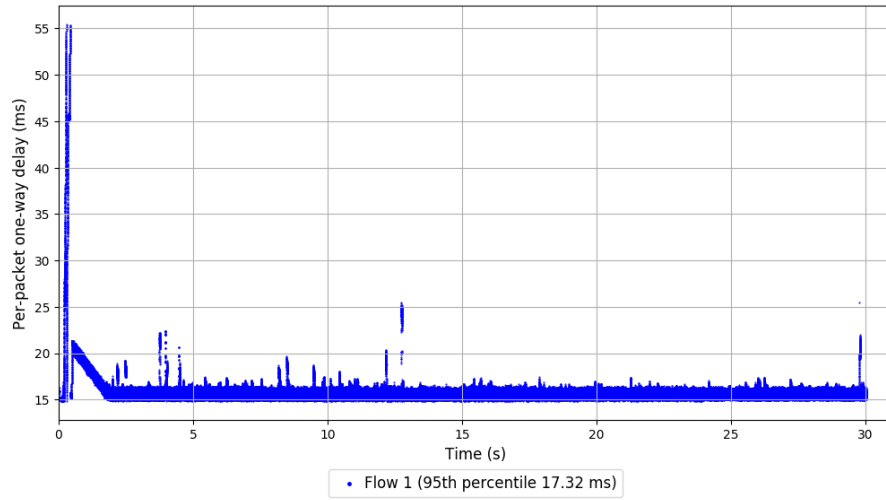
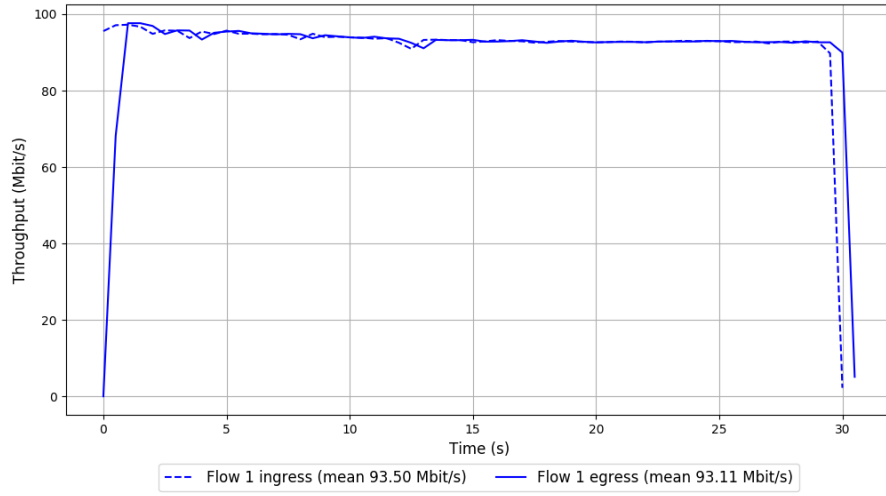
-- Flow 1:

Average throughput: 93.11 Mbit/s

95th percentile per-packet one-way delay: 17.319 ms

Loss rate: 0.42%

Run 3: Report of TCP Vegas — Data Link

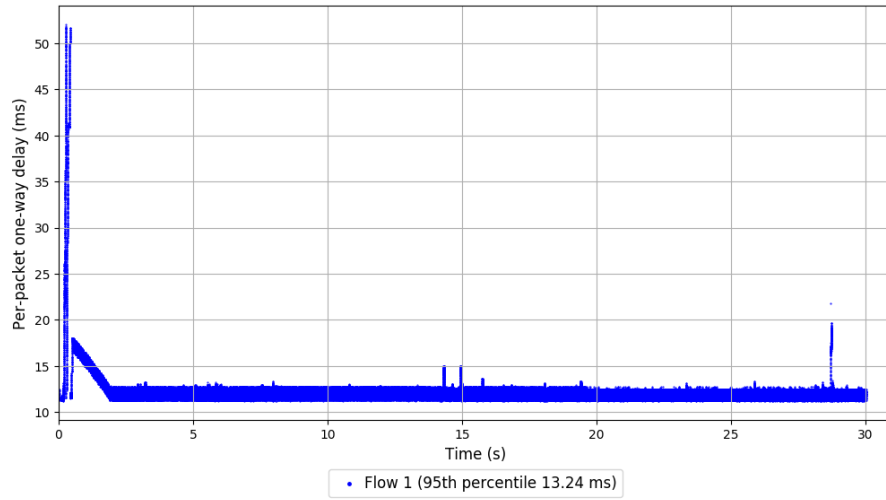
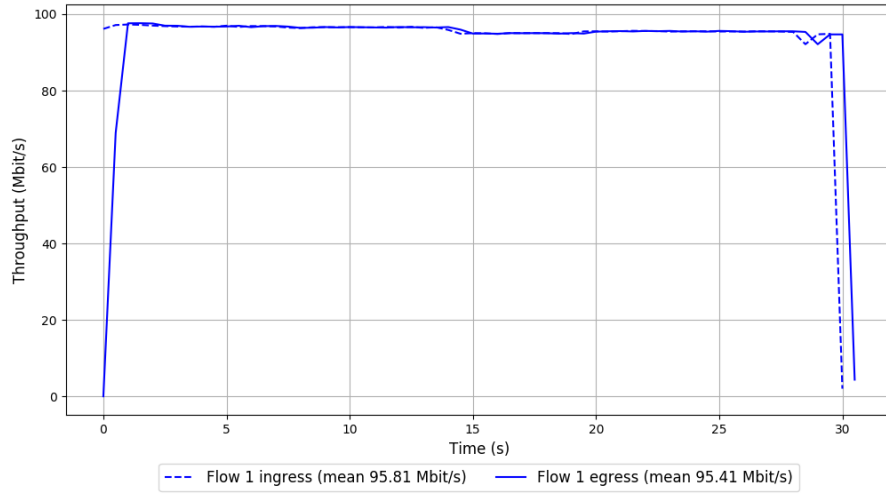


Run 4: Statistics of TCP Vegas

Start at: 2019-07-12 00:11:21
End at: 2019-07-12 00:11:51
Local clock offset: 1.012 ms
Remote clock offset: -2.125 ms

```
# Below is generated by plot.py at 2019-07-12 01:11:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.41 Mbit/s
95th percentile per-packet one-way delay: 13.243 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 95.41 Mbit/s
95th percentile per-packet one-way delay: 13.243 ms
Loss rate: 0.41%
```

Run 4: Report of TCP Vegas — Data Link

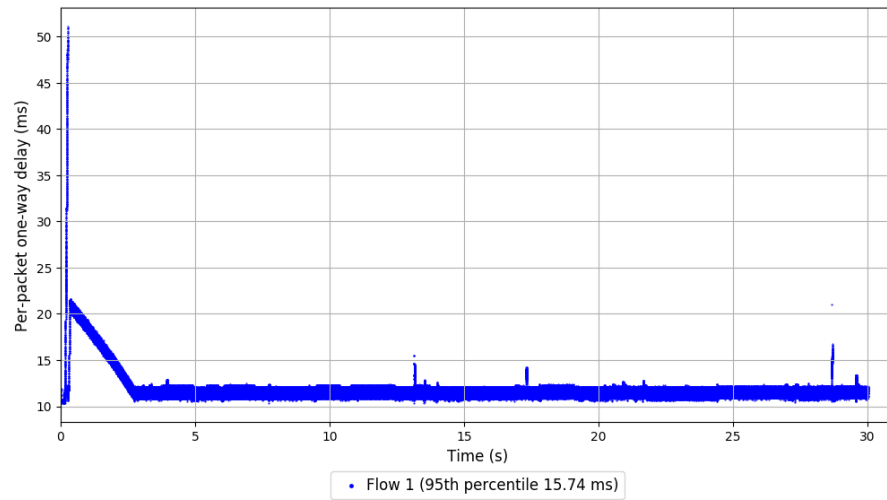
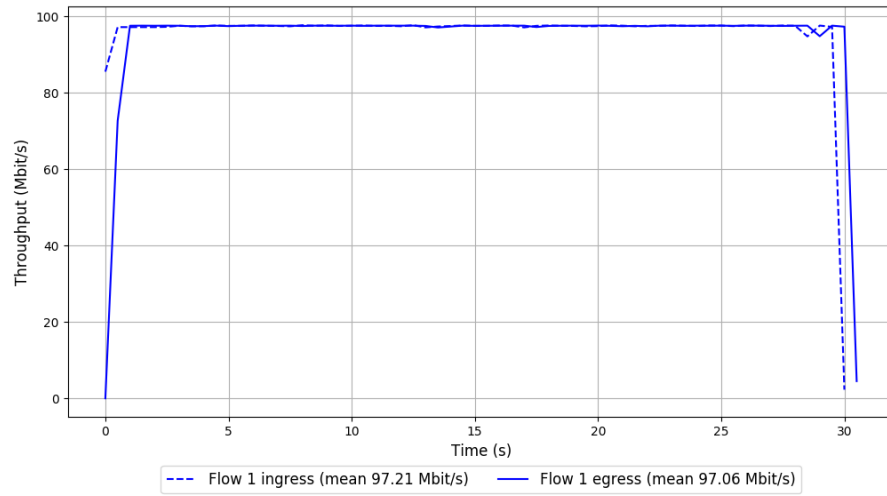


Run 5: Statistics of TCP Vegas

Start at: 2019-07-12 00:38:50
End at: 2019-07-12 00:39:20
Local clock offset: 1.121 ms
Remote clock offset: -2.433 ms

```
# Below is generated by plot.py at 2019-07-12 01:11:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.06 Mbit/s
95th percentile per-packet one-way delay: 15.737 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 97.06 Mbit/s
95th percentile per-packet one-way delay: 15.737 ms
Loss rate: 0.15%
```

Run 5: Report of TCP Vegas — Data Link

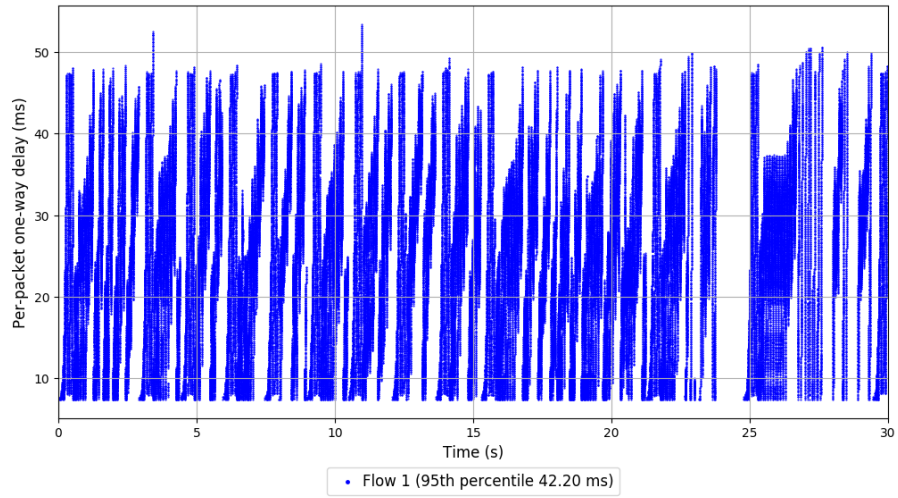
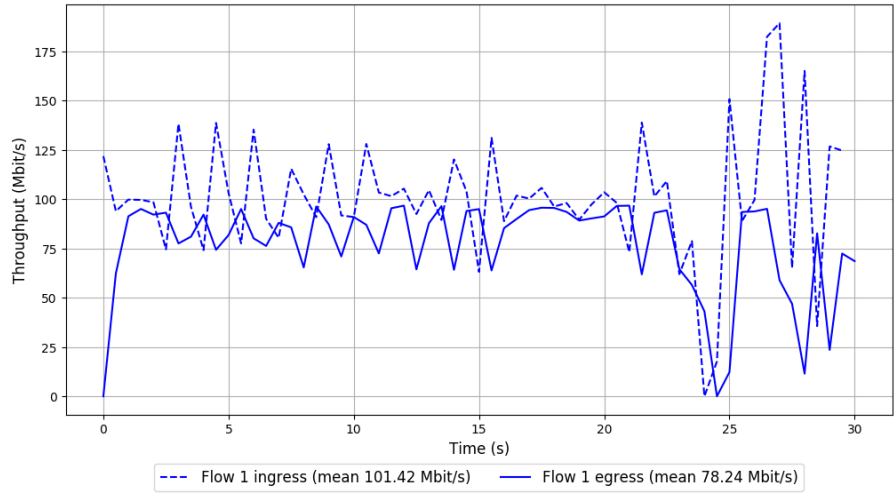


Run 1: Statistics of Verus

Start at: 2019-07-11 23:02:23
End at: 2019-07-11 23:02:53
Local clock offset: -0.635 ms
Remote clock offset: -1.097 ms

Below is generated by plot.py at 2019-07-12 01:11:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 78.24 Mbit/s
95th percentile per-packet one-way delay: 42.203 ms
Loss rate: 22.85%
-- Flow 1:
Average throughput: 78.24 Mbit/s
95th percentile per-packet one-way delay: 42.203 ms
Loss rate: 22.85%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-07-11 23:29:56

End at: 2019-07-11 23:30:26

Local clock offset: -0.23 ms

Remote clock offset: -0.783 ms

Below is generated by plot.py at 2019-07-12 01:11:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.54 Mbit/s

95th percentile per-packet one-way delay: 46.453 ms

Loss rate: 25.98%

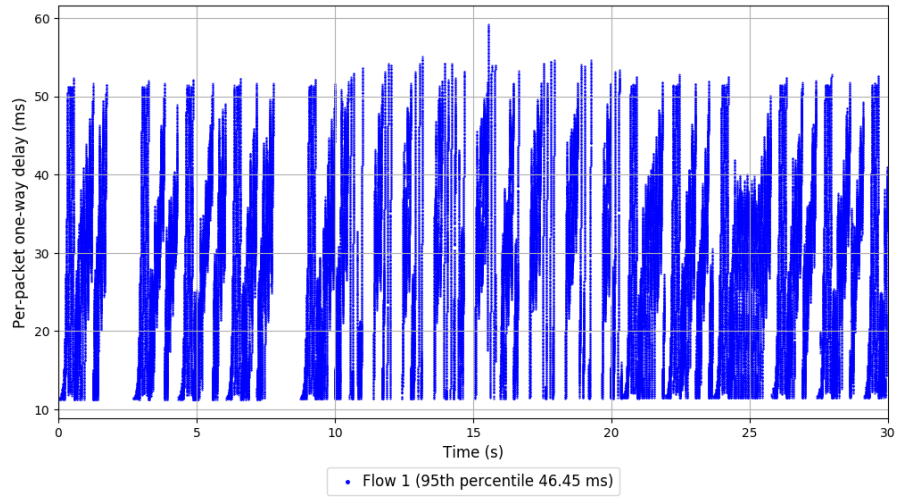
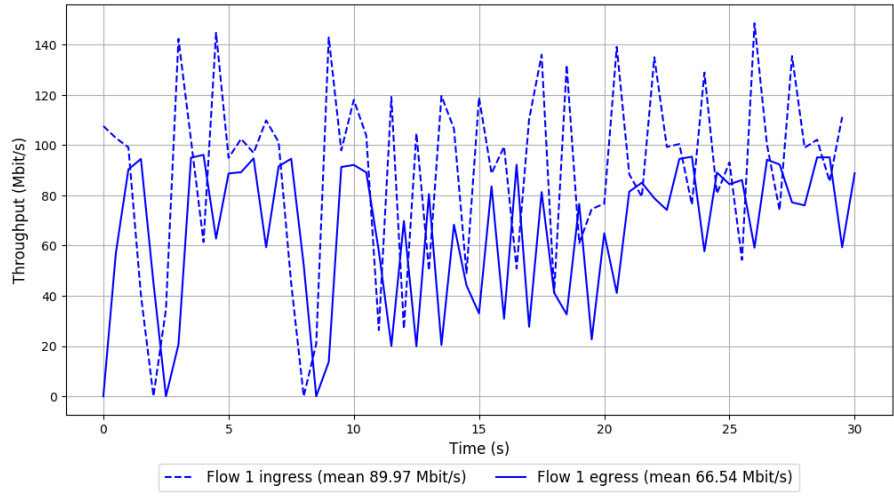
-- Flow 1:

Average throughput: 66.54 Mbit/s

95th percentile per-packet one-way delay: 46.453 ms

Loss rate: 25.98%

Run 2: Report of Verus — Data Link

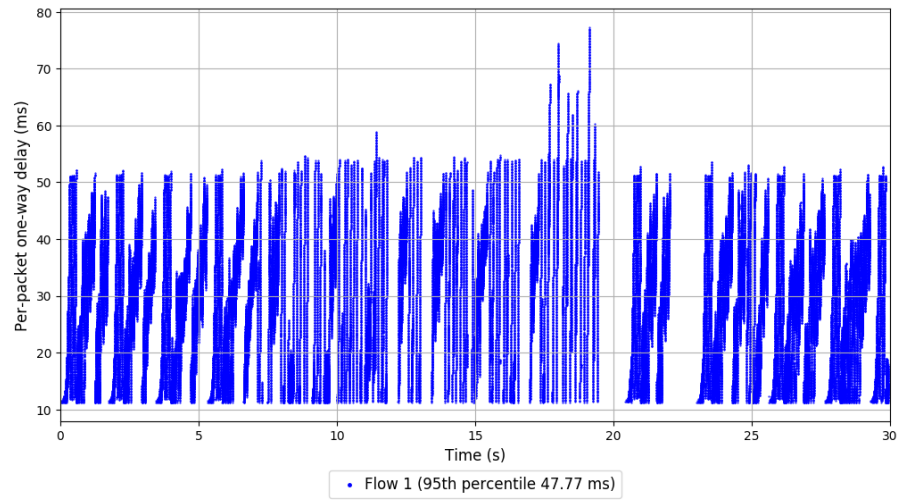
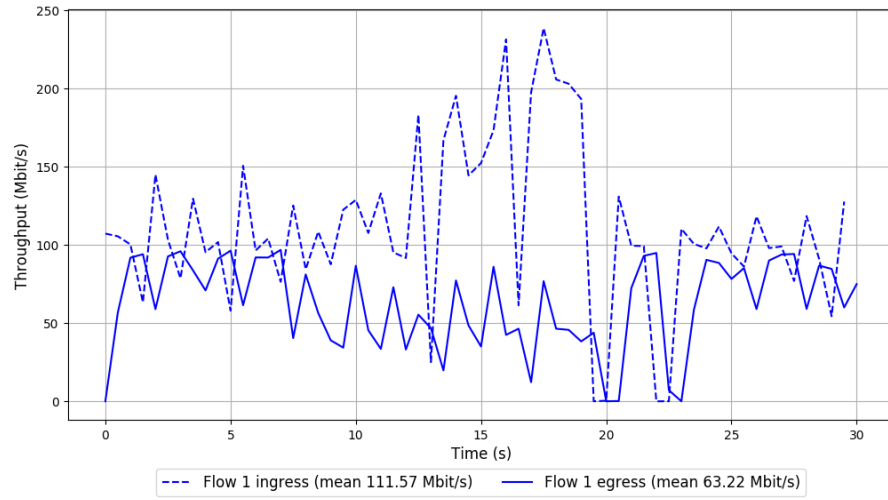


Run 3: Statistics of Verus

Start at: 2019-07-11 23:57:40
End at: 2019-07-11 23:58:10
Local clock offset: 5.498 ms
Remote clock offset: -1.603 ms

Below is generated by plot.py at 2019-07-12 01:11:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 63.22 Mbit/s
95th percentile per-packet one-way delay: 47.768 ms
Loss rate: 43.33%
-- Flow 1:
Average throughput: 63.22 Mbit/s
95th percentile per-packet one-way delay: 47.768 ms
Loss rate: 43.33%

Run 3: Report of Verus — Data Link

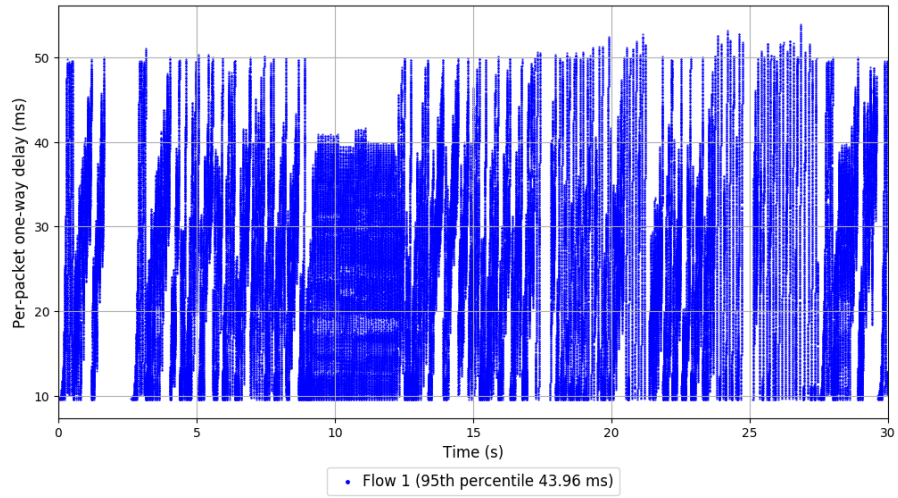
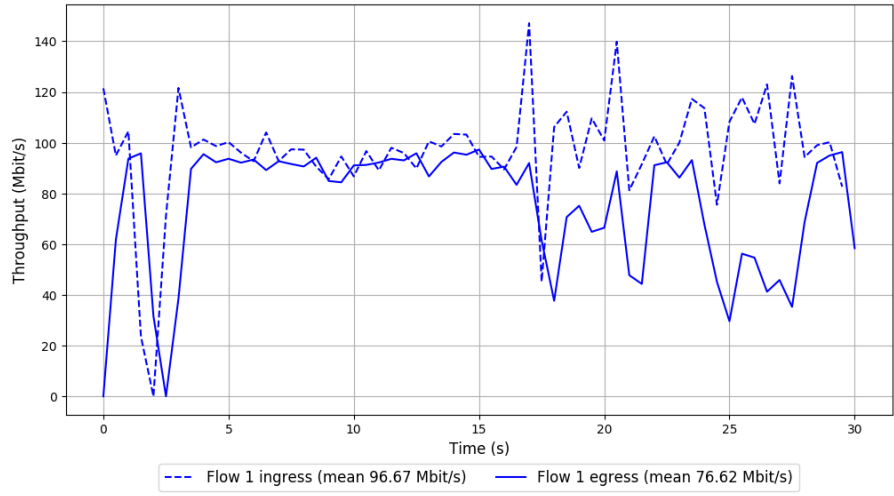


Run 4: Statistics of Verus

Start at: 2019-07-12 00:25:05
End at: 2019-07-12 00:25:35
Local clock offset: -0.574 ms
Remote clock offset: -1.825 ms

Below is generated by plot.py at 2019-07-12 01:12:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.62 Mbit/s
95th percentile per-packet one-way delay: 43.964 ms
Loss rate: 20.72%
-- Flow 1:
Average throughput: 76.62 Mbit/s
95th percentile per-packet one-way delay: 43.964 ms
Loss rate: 20.72%

Run 4: Report of Verus — Data Link

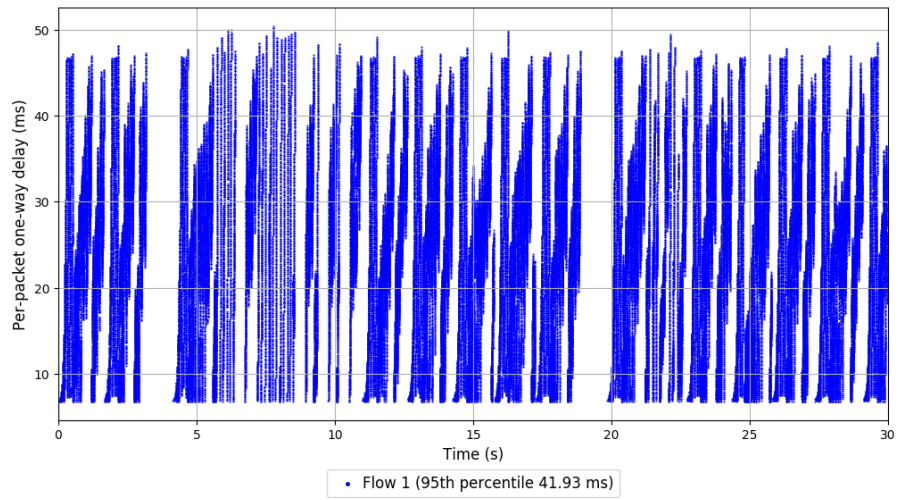
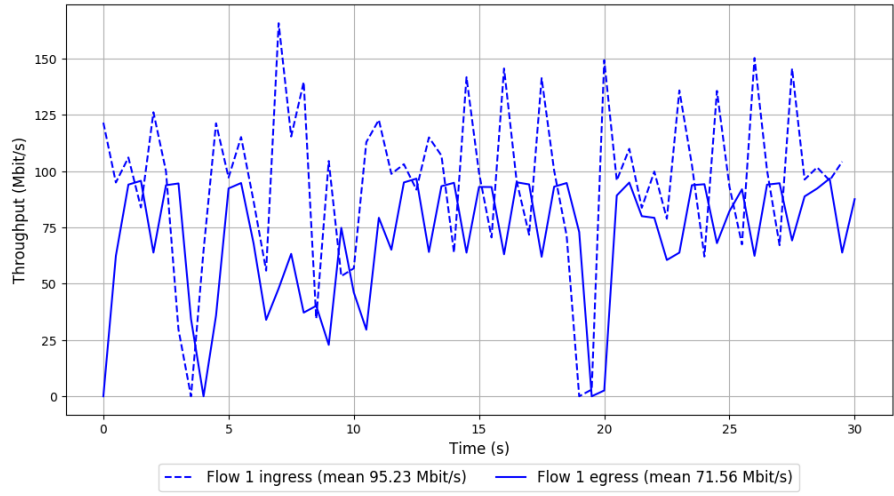


Run 5: Statistics of Verus

Start at: 2019-07-12 00:52:36
End at: 2019-07-12 00:53:06
Local clock offset: 3.762 ms
Remote clock offset: -5.031 ms

Below is generated by plot.py at 2019-07-12 01:12:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 71.56 Mbit/s
95th percentile per-packet one-way delay: 41.928 ms
Loss rate: 24.82%
-- Flow 1:
Average throughput: 71.56 Mbit/s
95th percentile per-packet one-way delay: 41.928 ms
Loss rate: 24.82%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-07-11 22:57:38

End at: 2019-07-11 22:58:09

Local clock offset: -2.263 ms

Remote clock offset: -0.446 ms

Below is generated by plot.py at 2019-07-12 01:12:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.08 Mbit/s

95th percentile per-packet one-way delay: 14.627 ms

Loss rate: 0.00%

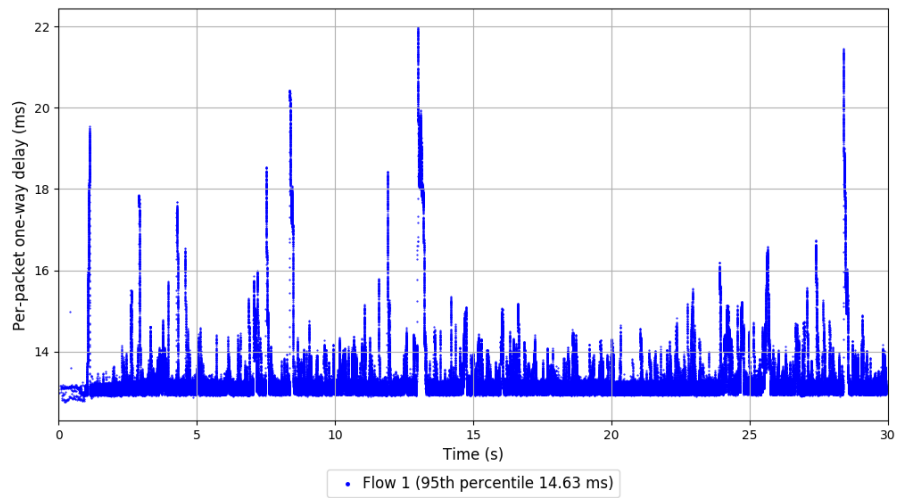
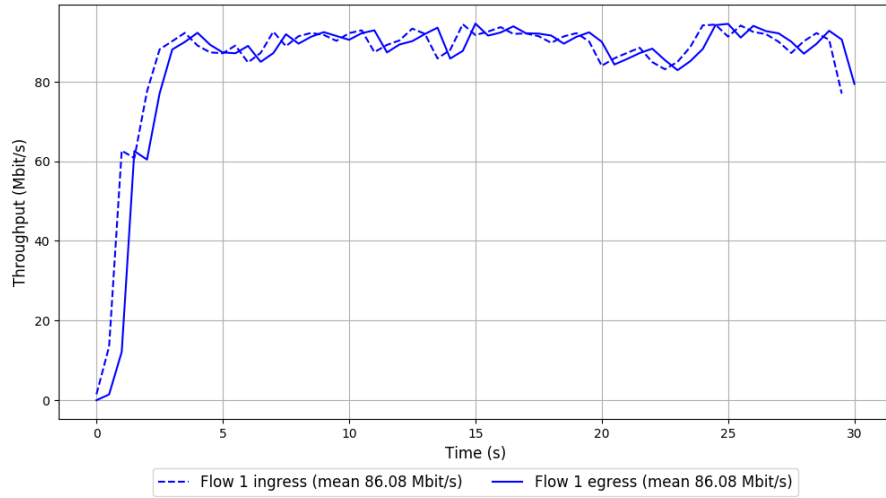
-- Flow 1:

Average throughput: 86.08 Mbit/s

95th percentile per-packet one-way delay: 14.627 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-07-11 23:25:20

End at: 2019-07-11 23:25:50

Local clock offset: -1.929 ms

Remote clock offset: -1.082 ms

Below is generated by plot.py at 2019-07-12 01:12:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.43 Mbit/s

95th percentile per-packet one-way delay: 12.154 ms

Loss rate: 0.00%

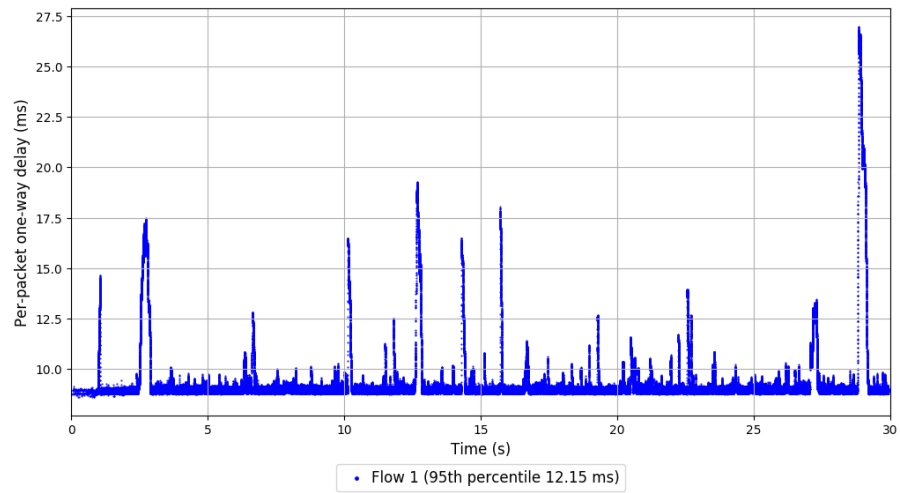
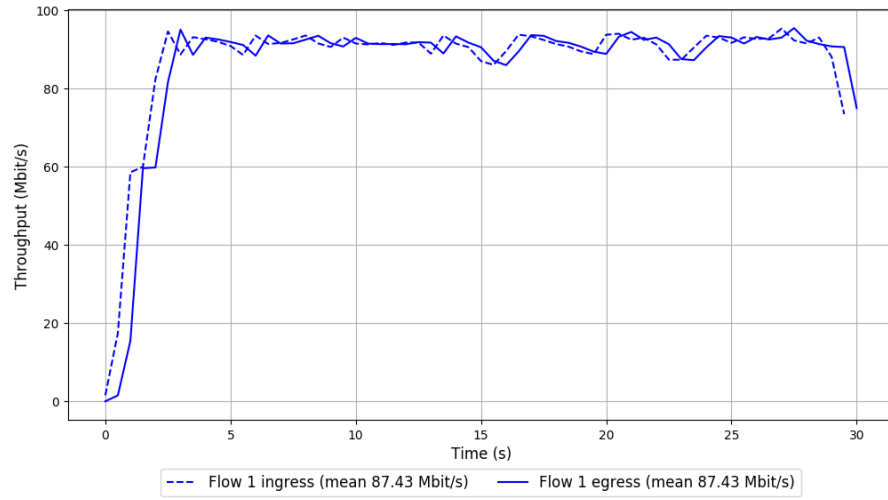
-- Flow 1:

Average throughput: 87.43 Mbit/s

95th percentile per-packet one-way delay: 12.154 ms

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-07-11 23:53:02

End at: 2019-07-11 23:53:32

Local clock offset: 4.266 ms

Remote clock offset: -0.433 ms

Below is generated by plot.py at 2019-07-12 01:12:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.35 Mbit/s

95th percentile per-packet one-way delay: 10.725 ms

Loss rate: 0.00%

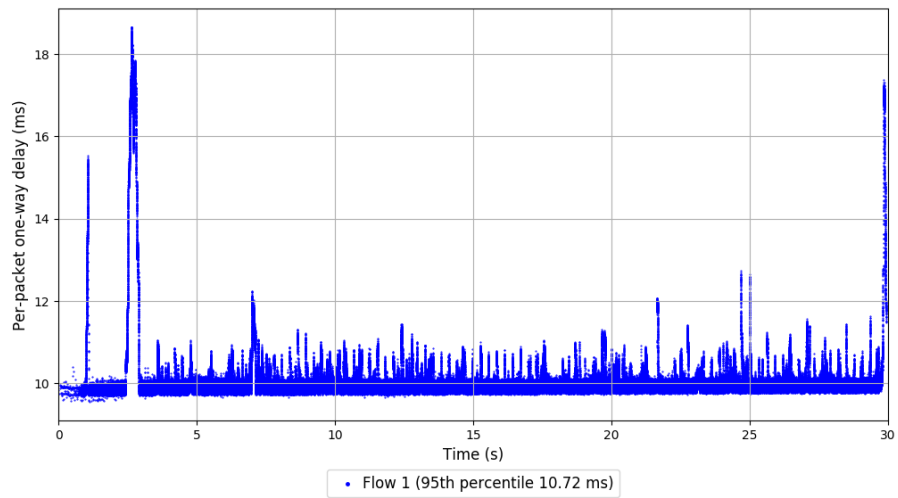
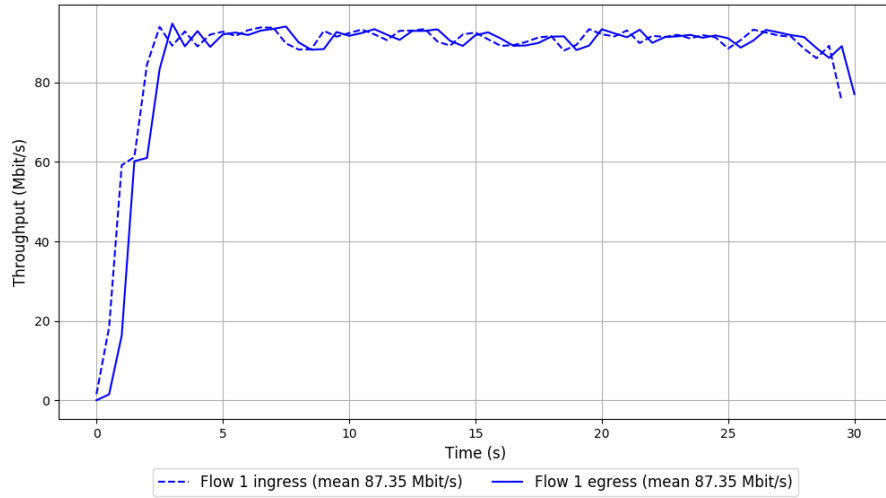
-- Flow 1:

Average throughput: 87.35 Mbit/s

95th percentile per-packet one-way delay: 10.725 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-07-12 00:20:29

End at: 2019-07-12 00:20:59

Local clock offset: -0.504 ms

Remote clock offset: -1.796 ms

Below is generated by plot.py at 2019-07-12 01:12:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.54 Mbit/s

95th percentile per-packet one-way delay: 11.478 ms

Loss rate: 0.00%

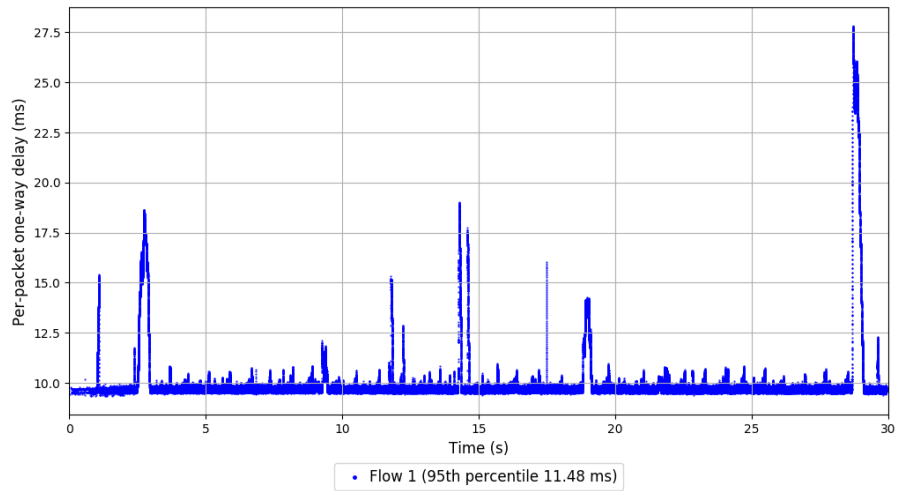
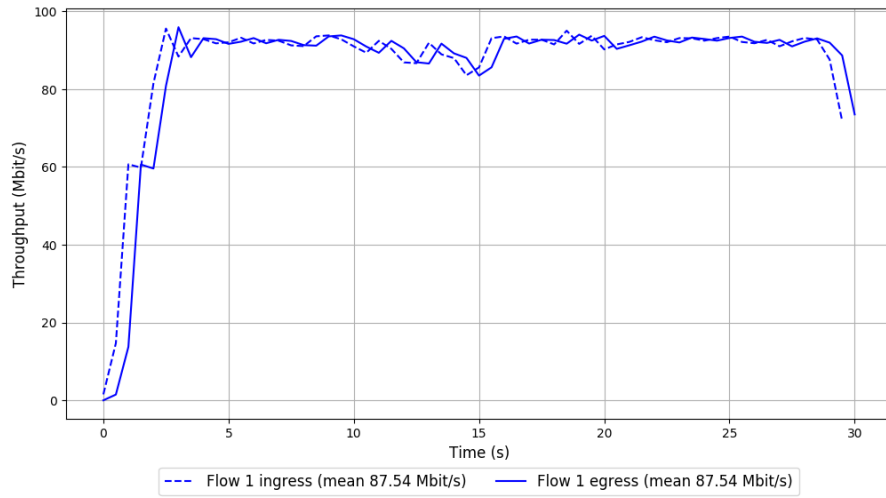
-- Flow 1:

Average throughput: 87.54 Mbit/s

95th percentile per-packet one-way delay: 11.478 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-07-12 00:47:57

End at: 2019-07-12 00:48:27

Local clock offset: 2.27 ms

Remote clock offset: -4.678 ms

Below is generated by plot.py at 2019-07-12 01:12:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.73 Mbit/s

95th percentile per-packet one-way delay: 13.388 ms

Loss rate: 0.00%

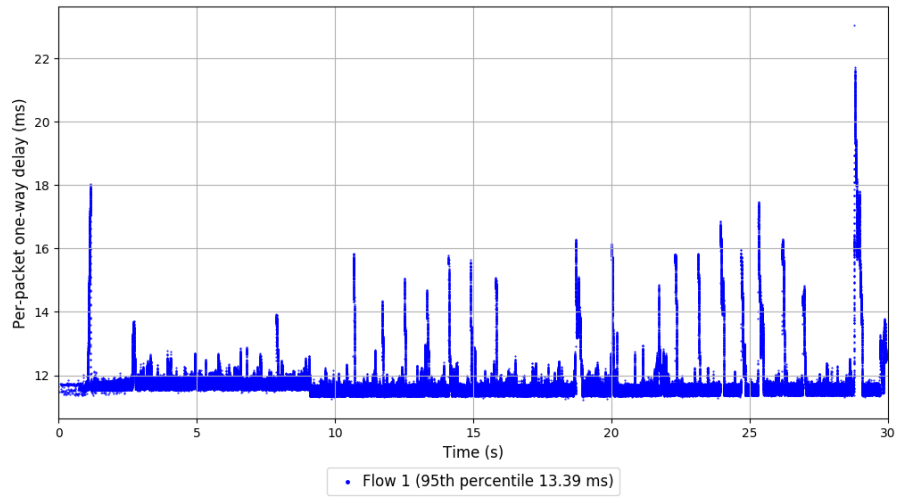
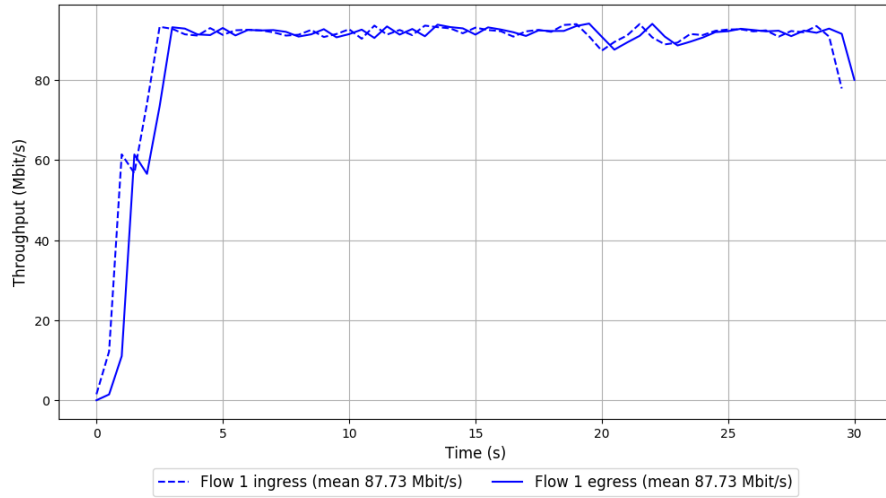
-- Flow 1:

Average throughput: 87.73 Mbit/s

95th percentile per-packet one-way delay: 13.388 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-07-11 22:42:41

End at: 2019-07-11 22:43:11

Local clock offset: -3.235 ms

Remote clock offset: 0.165 ms

Below is generated by plot.py at 2019-07-12 01:12:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 11.198 ms

Loss rate: 0.00%

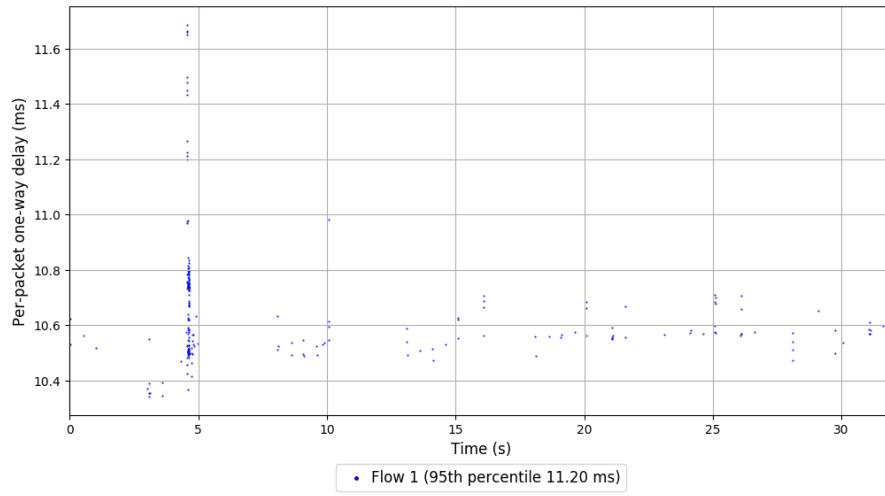
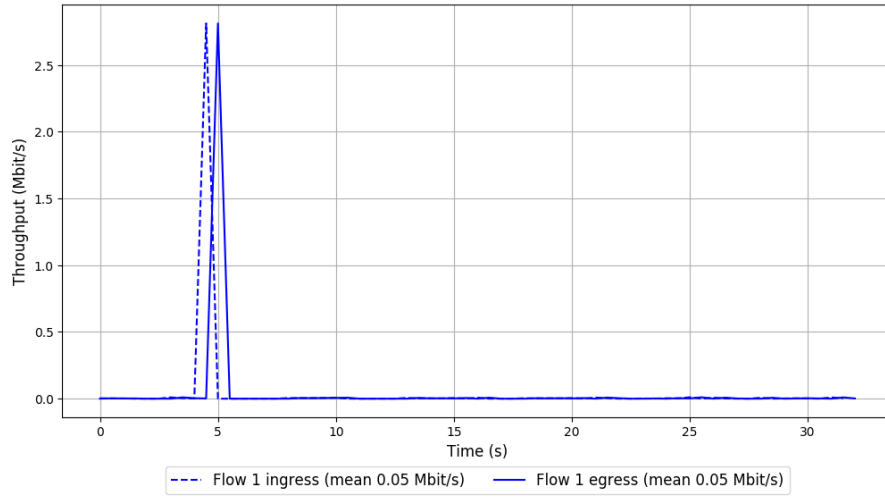
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 11.198 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-07-11 23:10:29

End at: 2019-07-11 23:10:59

Local clock offset: -0.854 ms

Remote clock offset: 0.554 ms

Below is generated by plot.py at 2019-07-12 01:12:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 13.209 ms

Loss rate: 0.00%

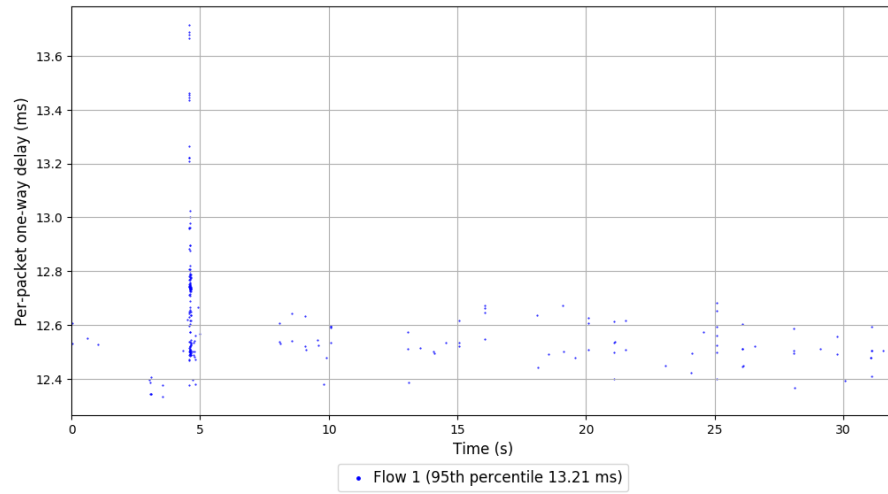
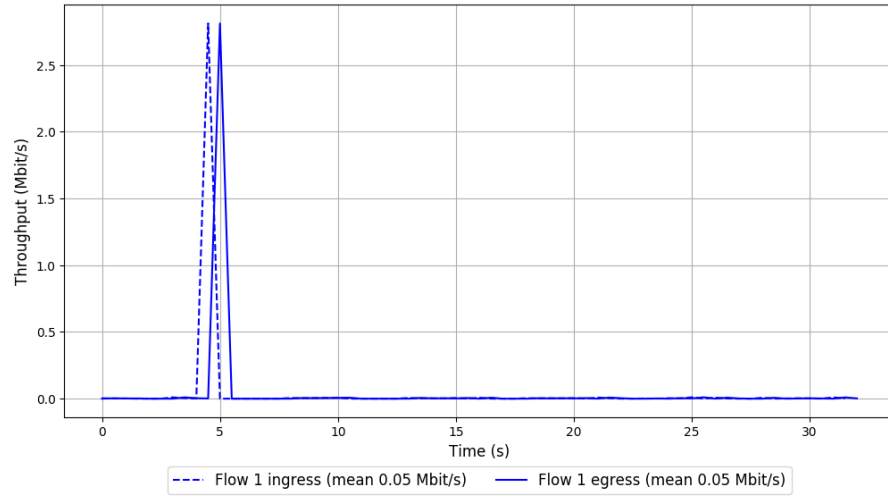
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 13.209 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-07-11 23:38:02

End at: 2019-07-11 23:38:32

Local clock offset: 2.658 ms

Remote clock offset: 0.116 ms

Below is generated by plot.py at 2019-07-12 01:12:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 13.049 ms

Loss rate: 0.00%

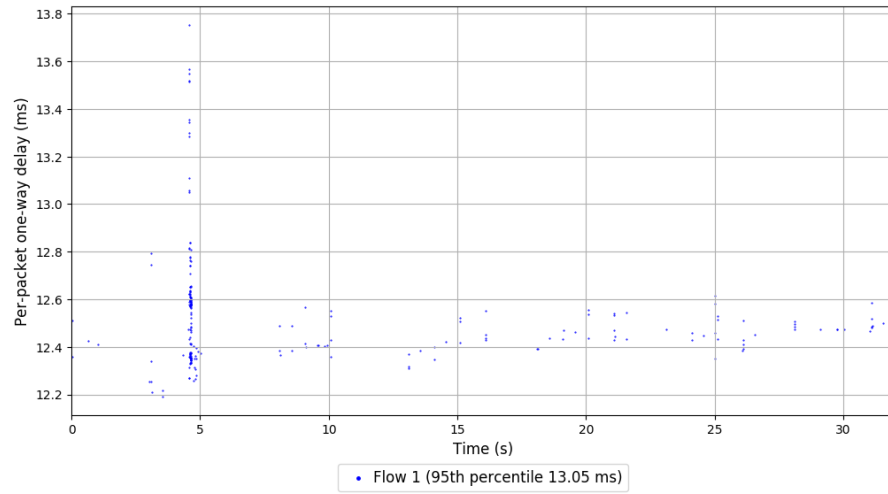
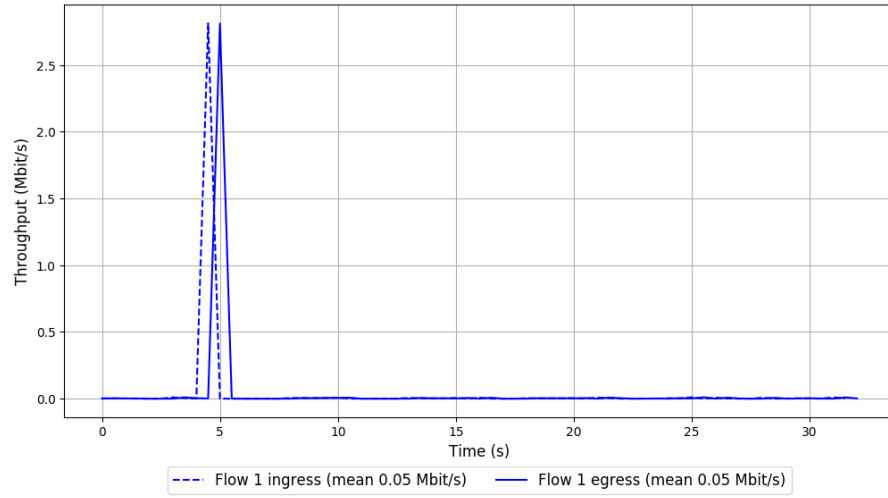
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 13.049 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

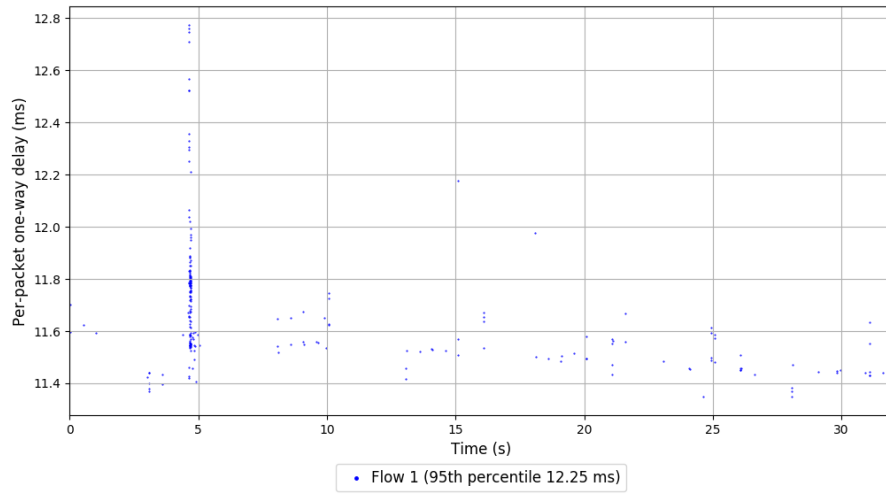
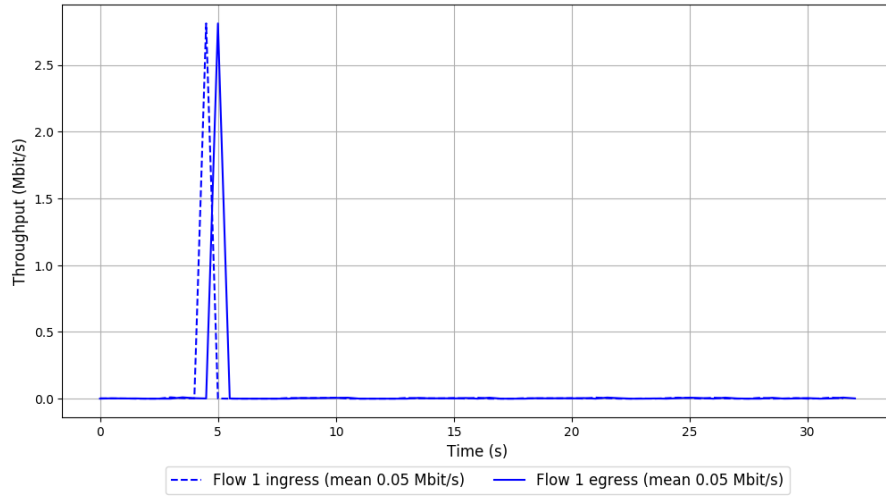


Run 4: Statistics of WebRTC media

Start at: 2019-07-12 00:05:40
End at: 2019-07-12 00:06:10
Local clock offset: 1.349 ms
Remote clock offset: -2.454 ms

```
# Below is generated by plot.py at 2019-07-12 01:12:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 12.250 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 12.250 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-07-12 00:33:02

End at: 2019-07-12 00:33:32

Local clock offset: -0.185 ms

Remote clock offset: -3.97 ms

Below is generated by plot.py at 2019-07-12 01:12:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 9.133 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 9.133 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

