

## Pantheon Report

Generated at 2019-12-11 05:06:26 (UTC).

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

Repeated the test of 24 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

NTP offsets were measured against *gps.ntp.br* and have been applied to correct the timestamps in logs.

### System info:

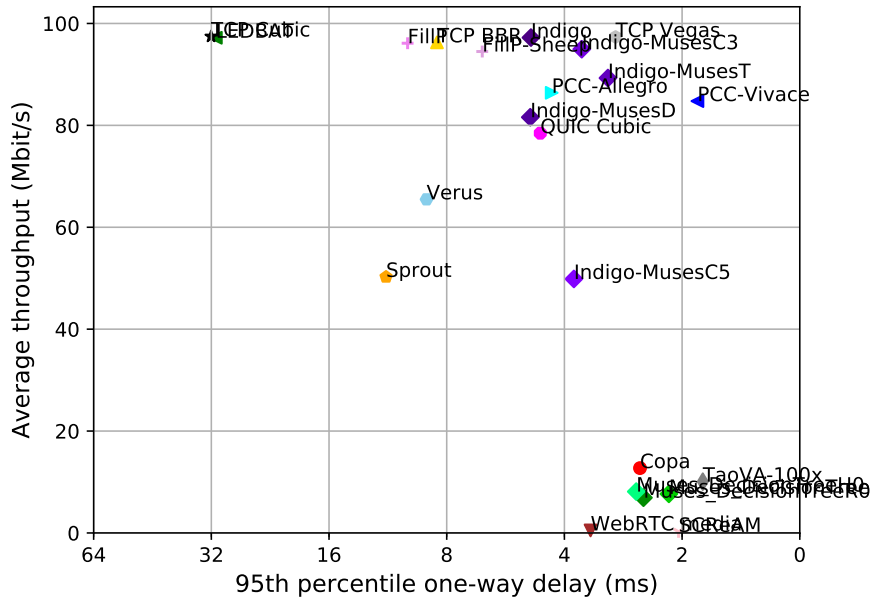
```
Linux 4.15.0-1054-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

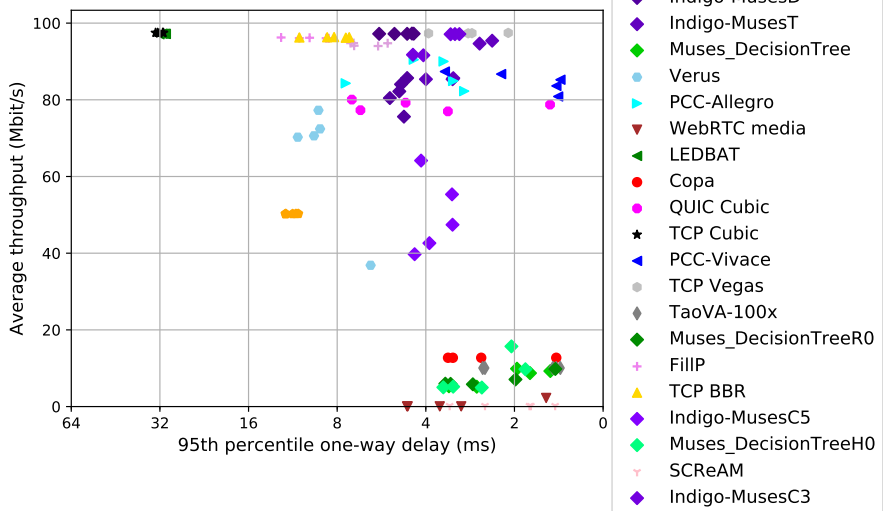
```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
```

third\_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4  
third\_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from AWS Brazil 1 to Brazil, 5 runs of 30s each per scheme  
(mean of all runs by scheme)



test from AWS Brazil 1 to Brazil, 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	96.29	8.47	0.00
Copa	4	12.73	2.56	65.17
TCP Cubic	5	97.45	32.05	0.01
FillP	5	96.12	10.07	0.28
FillP-Sheep	5	94.49	6.49	0.08
Indigo	5	97.23	4.87	0.00
Indigo-MusesC3	5	94.95	3.61	0.00
Indigo-MusesC5	5	49.85	3.78	0.00
Indigo-MusesD	5	81.59	4.89	0.00
Indigo-MusesT	5	89.29	3.10	0.00
LEDBAT	5	97.19	31.17	0.01
Muses_DecisionTree	5	7.67	2.16	0.00
Muses_DecisionTreeH0	5	8.12	2.62	0.00
Muses_DecisionTreeR0	5	6.92	2.51	0.00
PCC-Allegro	5	86.39	4.31	0.00
PCC-Expr	0	N/A	N/A	N/A
QUIC Cubic	5	78.47	4.61	0.28
SCReAM	5	0.22	2.04	0.00
Sprout	5	50.26	11.44	0.00
TaoVA-100x	5	10.06	1.65	81.13
TCP Vegas	5	97.34	2.96	0.00
Verus	5	65.48	9.01	1.10
PCC-Vivace	5	84.76	1.74	0.00
WebRTC media	5	0.50	3.43	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-12-11 02:45:58

End at: 2019-12-11 02:46:28

Local clock offset: -3.07 ms

Remote clock offset: 0.105 ms

# Below is generated by plot.py at 2019-12-11 04:56:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.32 Mbit/s

95th percentile per-packet one-way delay: 8.651 ms

Loss rate: 0.00%

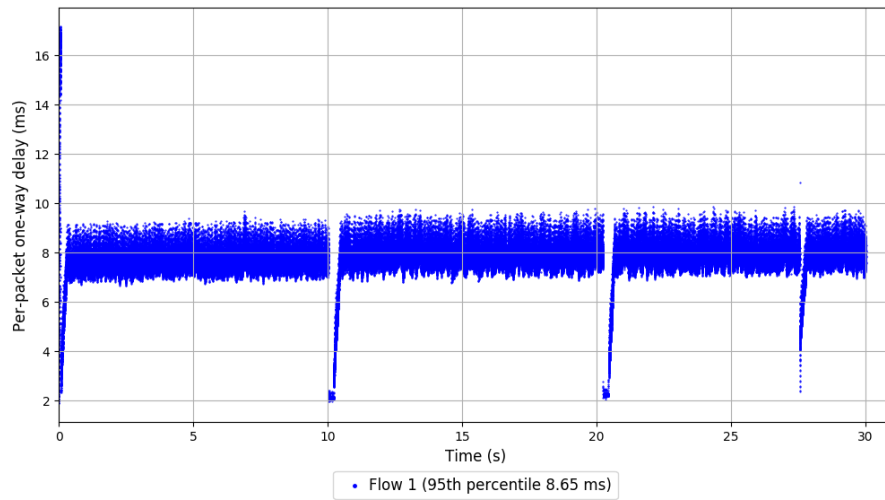
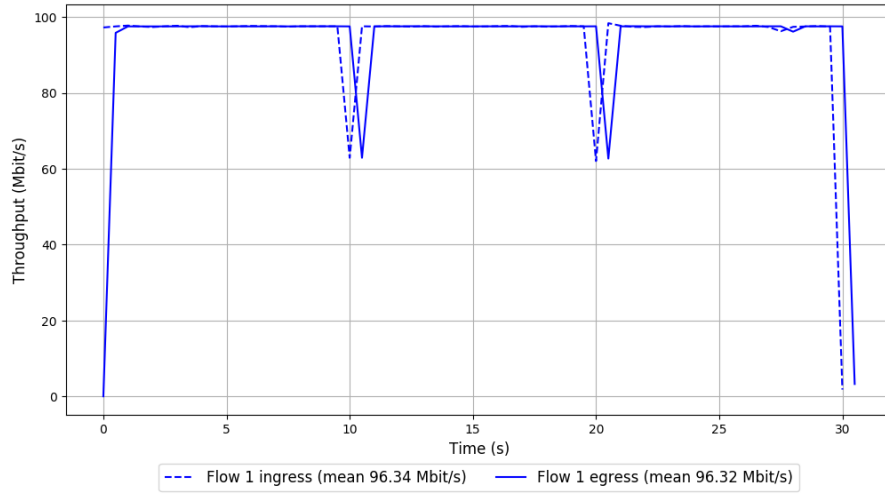
-- Flow 1:

Average throughput: 96.32 Mbit/s

95th percentile per-packet one-way delay: 8.651 ms

Loss rate: 0.00%

### Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-12-11 03:12:39

End at: 2019-12-11 03:13:09

Local clock offset: -3.193 ms

Remote clock offset: 0.15 ms

# Below is generated by plot.py at 2019-12-11 04:56:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.32 Mbit/s

95th percentile per-packet one-way delay: 7.282 ms

Loss rate: 0.00%

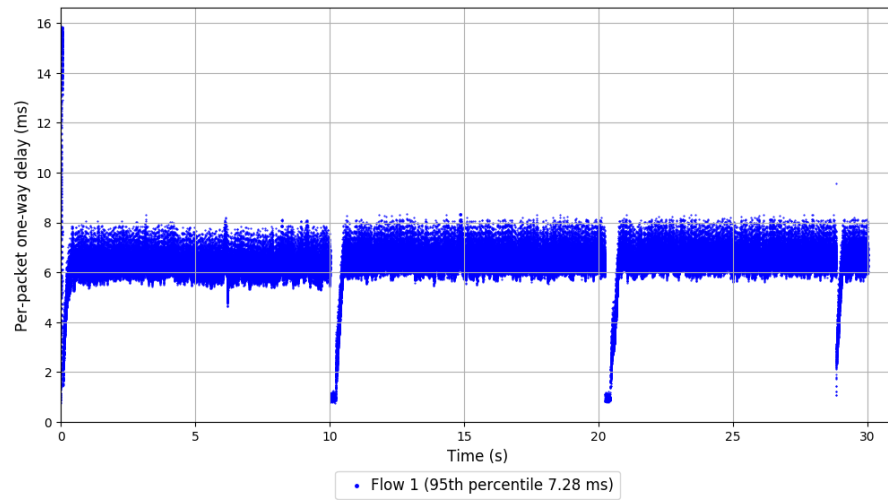
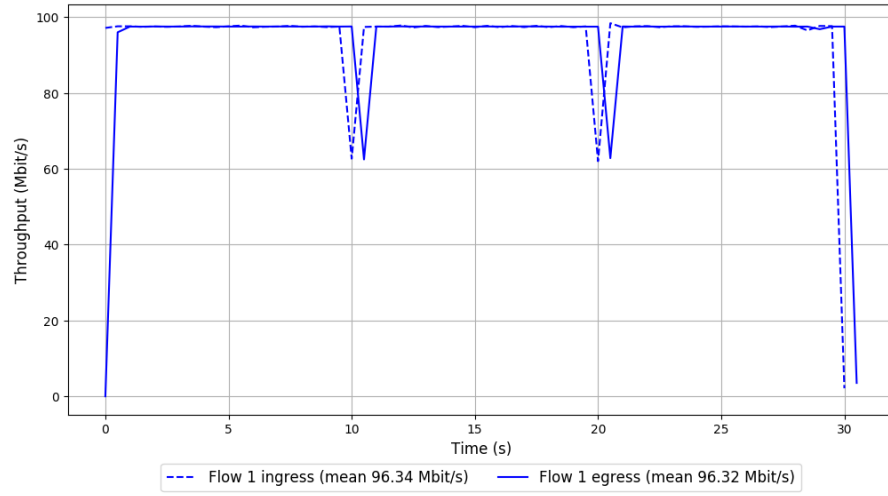
-- Flow 1:

Average throughput: 96.32 Mbit/s

95th percentile per-packet one-way delay: 7.282 ms

Loss rate: 0.00%

## Run 2: Report of TCP BBR — Data Link





Run 3: Statistics of TCP BBR

Start at: 2019-12-11 03:39:23

End at: 2019-12-11 03:39:53

Local clock offset: -0.442 ms

Remote clock offset: 0.33 ms

# Below is generated by plot.py at 2019-12-11 04:56:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 10.753 ms

Loss rate: 0.00%

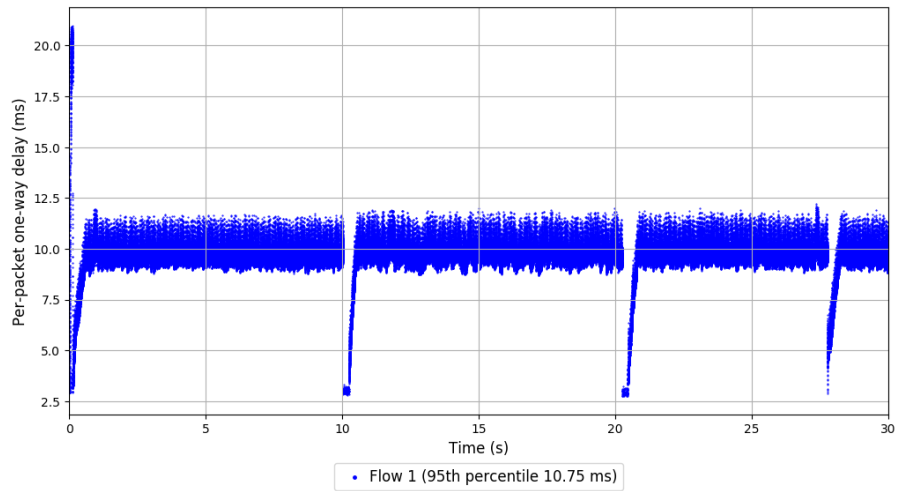
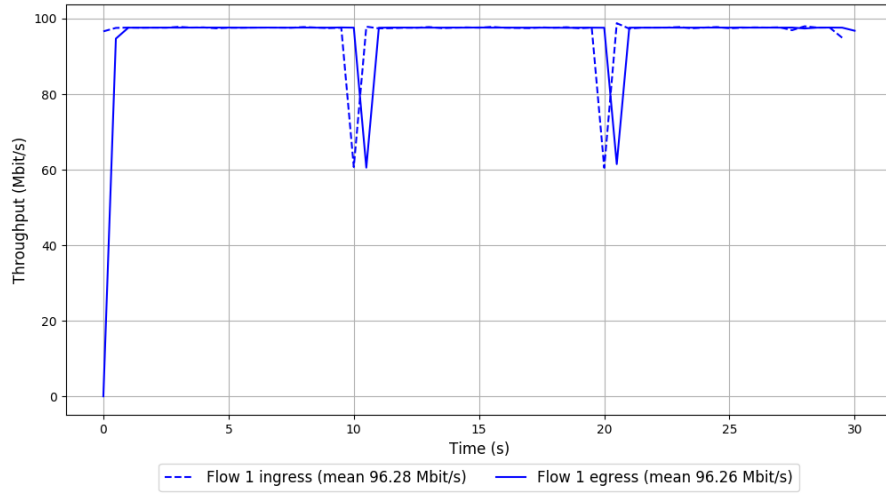
-- Flow 1:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 10.753 ms

Loss rate: 0.00%

### Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-12-11 04:06:05

End at: 2019-12-11 04:06:35

Local clock offset: -1.86 ms

Remote clock offset: 0.369 ms

# Below is generated by plot.py at 2019-12-11 04:56:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.36 Mbit/s

95th percentile per-packet one-way delay: 8.196 ms

Loss rate: 0.00%

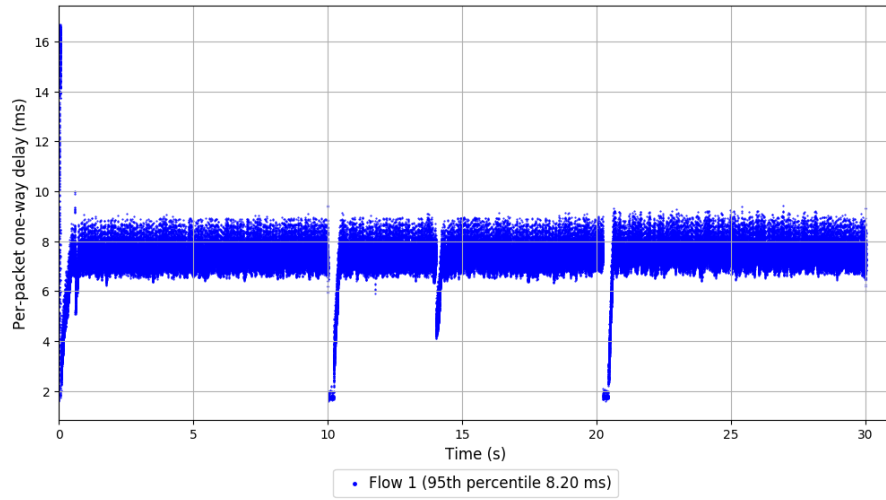
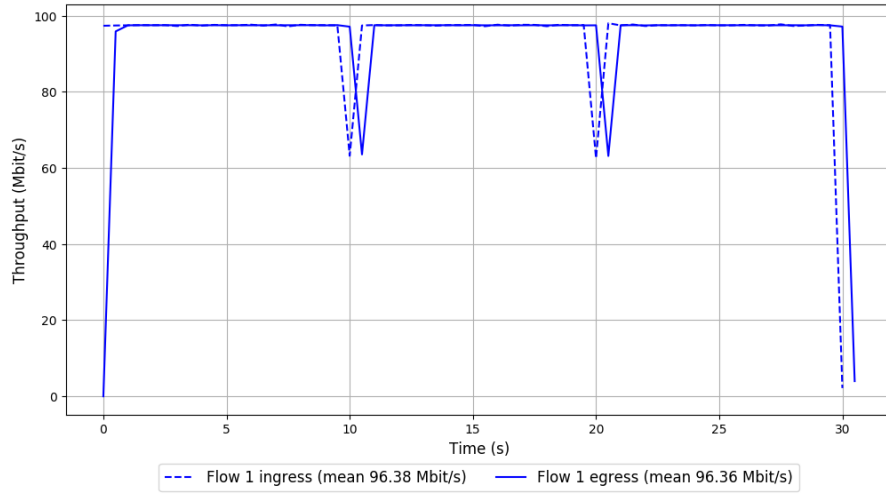
-- Flow 1:

Average throughput: 96.36 Mbit/s

95th percentile per-packet one-way delay: 8.196 ms

Loss rate: 0.00%

### Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-12-11 04:32:48

End at: 2019-12-11 04:33:18

Local clock offset: -4.811 ms

Remote clock offset: 0.218 ms

# Below is generated by plot.py at 2019-12-11 04:56:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.20 Mbit/s

95th percentile per-packet one-way delay: 7.480 ms

Loss rate: 0.00%

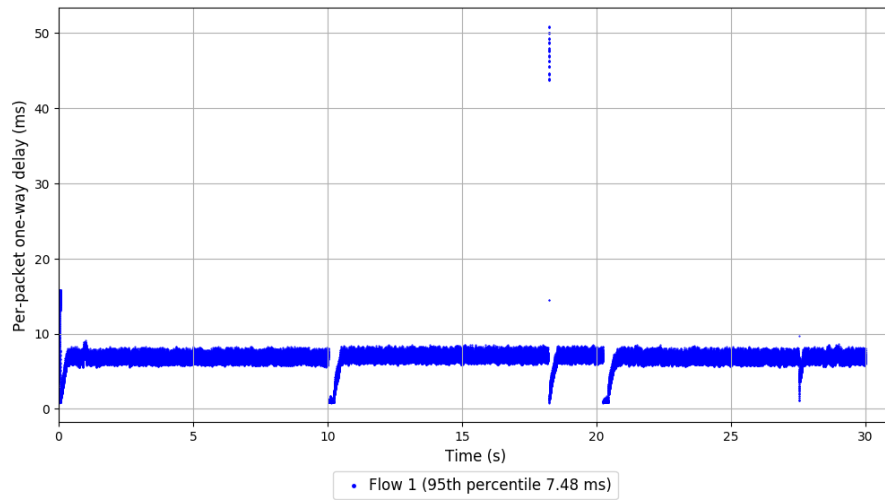
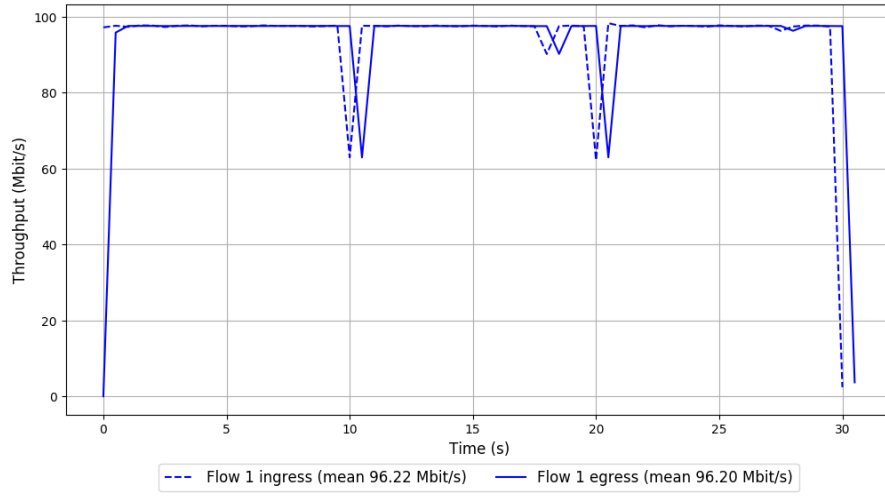
-- Flow 1:

Average throughput: 96.20 Mbit/s

95th percentile per-packet one-way delay: 7.480 ms

Loss rate: 0.00%

### Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

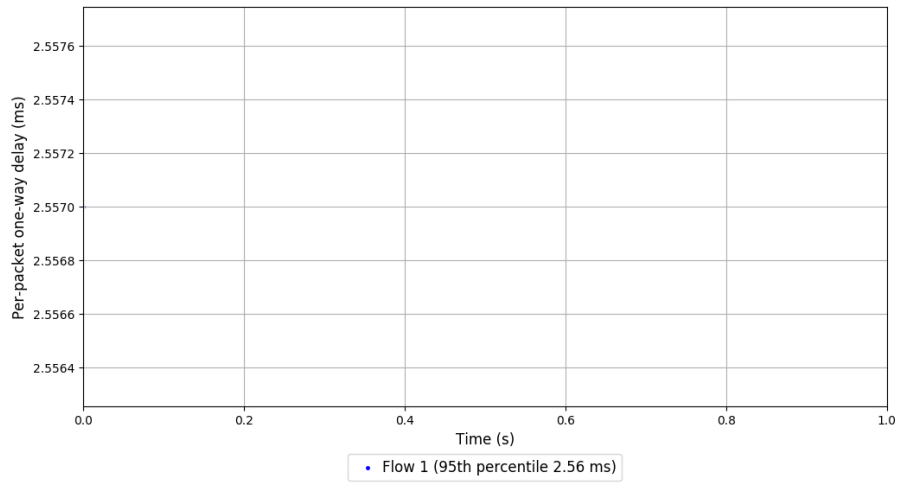
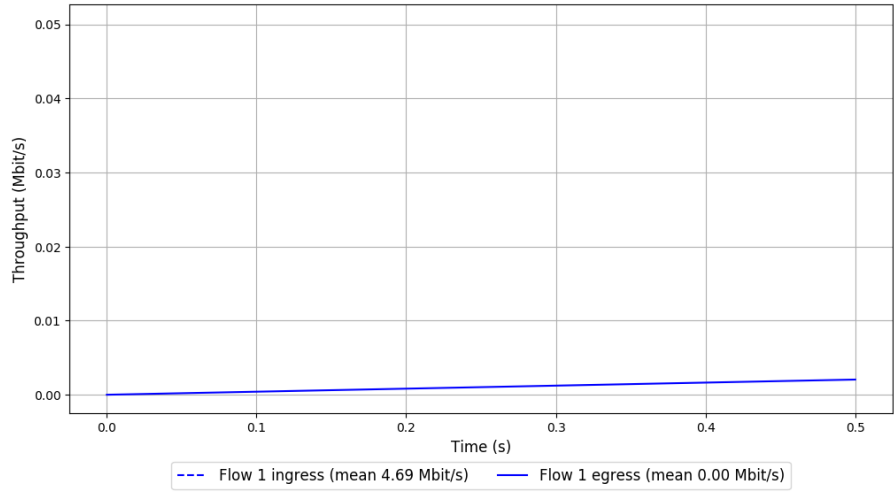
Start at: 2019-12-11 02:41:36

End at: 2019-12-11 02:42:06

Local clock offset: -5.076 ms

Remote clock offset: 0.132 ms

### Run 1: Report of Copa — Data Link





Run 2: Statistics of Copa

Start at: 2019-12-11 03:08:16

End at: 2019-12-11 03:08:46

Local clock offset: -3.564 ms

Remote clock offset: 0.156 ms

# Below is generated by plot.py at 2019-12-11 04:56:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 3.238 ms

Loss rate: 64.49%

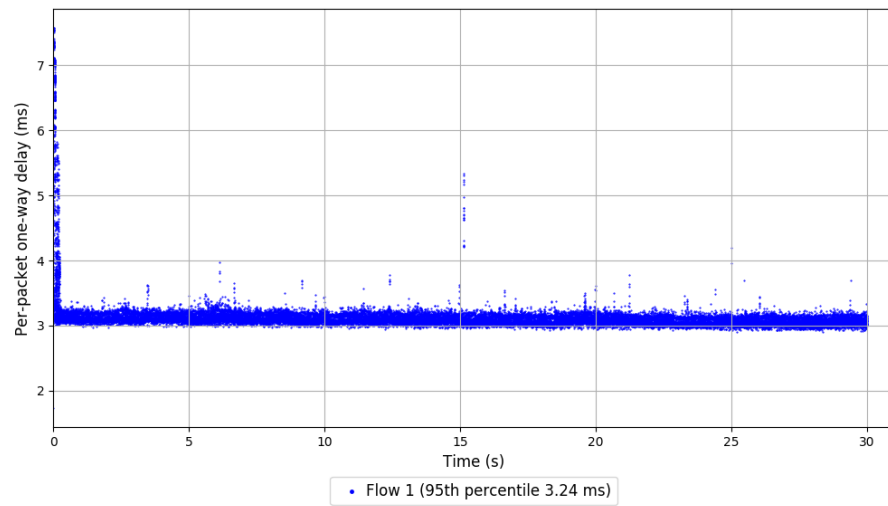
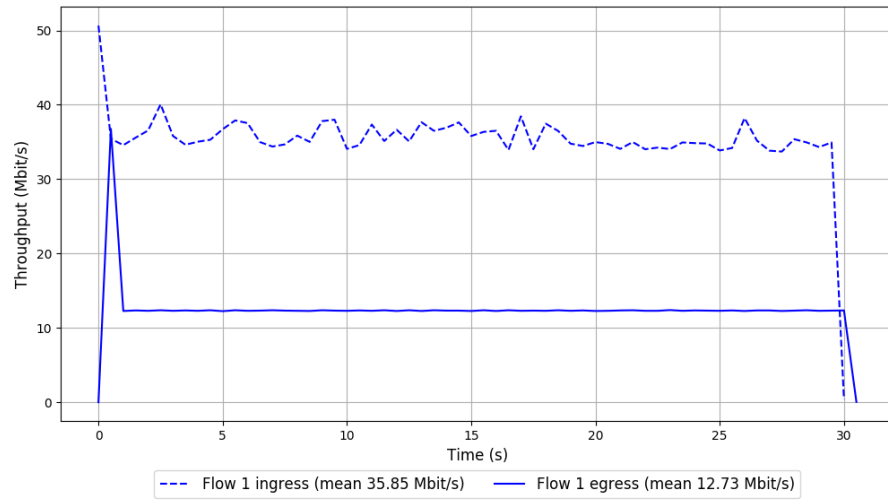
-- Flow 1:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 3.238 ms

Loss rate: 64.49%

## Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-12-11 03:34:59

End at: 2019-12-11 03:35:29

Local clock offset: -0.699 ms

Remote clock offset: 0.308 ms

# Below is generated by plot.py at 2019-12-11 04:56:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 3.362 ms

Loss rate: 64.72%

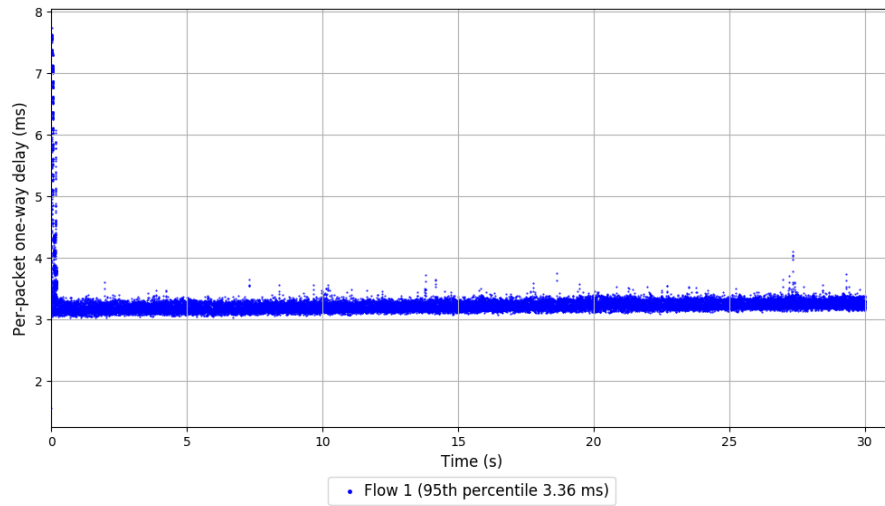
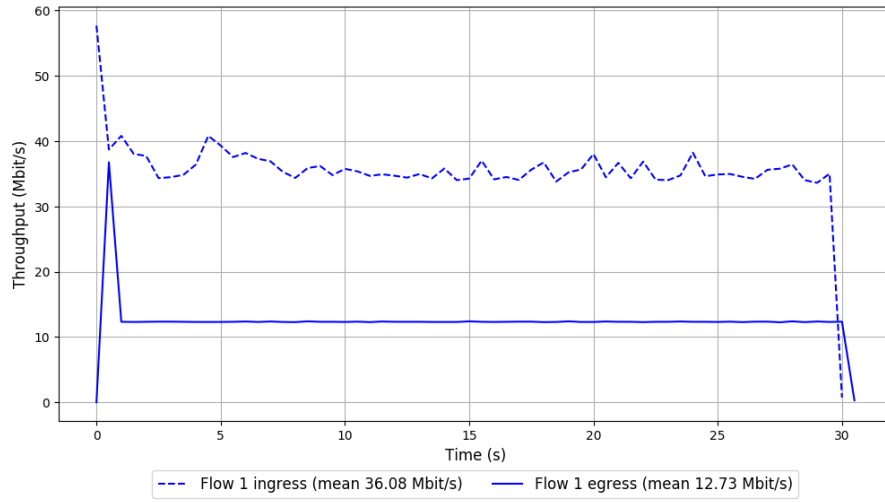
-- Flow 1:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 3.362 ms

Loss rate: 64.72%

### Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-12-11 04:01:42

End at: 2019-12-11 04:02:12

Local clock offset: -1.554 ms

Remote clock offset: 0.414 ms

# Below is generated by plot.py at 2019-12-11 04:56:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 2.594 ms

Loss rate: 63.66%

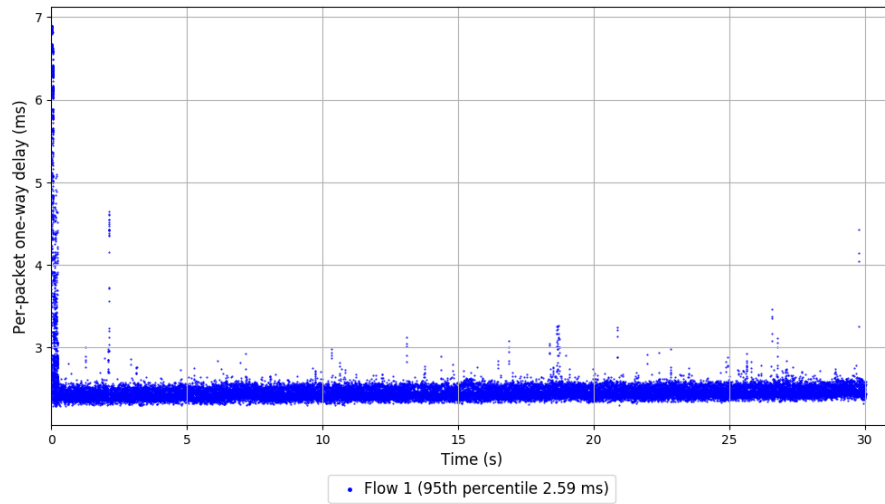
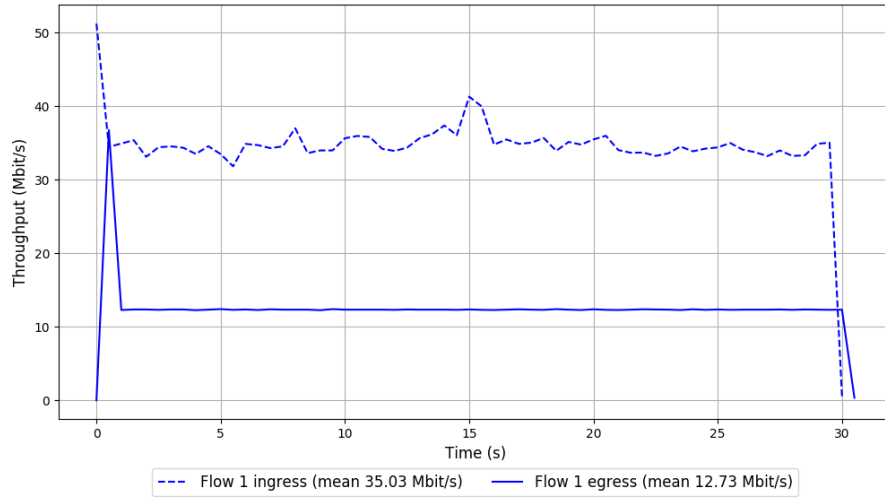
-- Flow 1:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 2.594 ms

Loss rate: 63.66%

### Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-12-11 04:28:24

End at: 2019-12-11 04:28:54

Local clock offset: -4.842 ms

Remote clock offset: 0.315 ms

# Below is generated by plot.py at 2019-12-11 04:56:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 1.057 ms

Loss rate: 67.81%

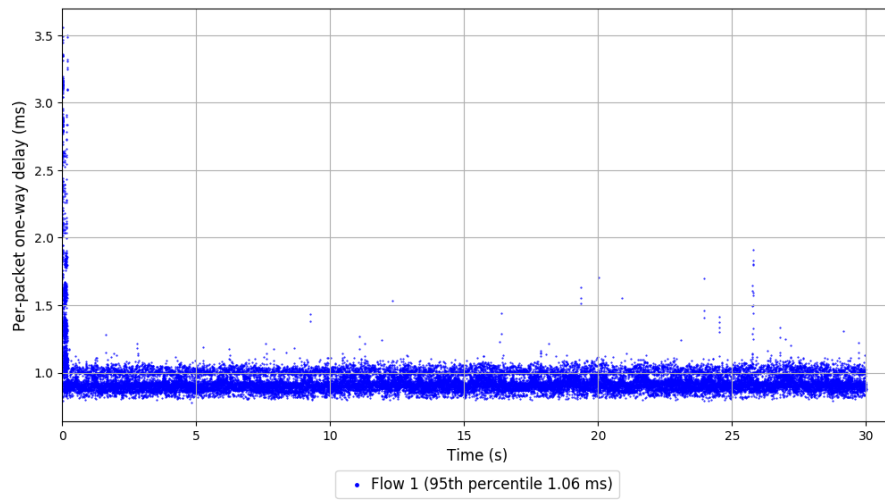
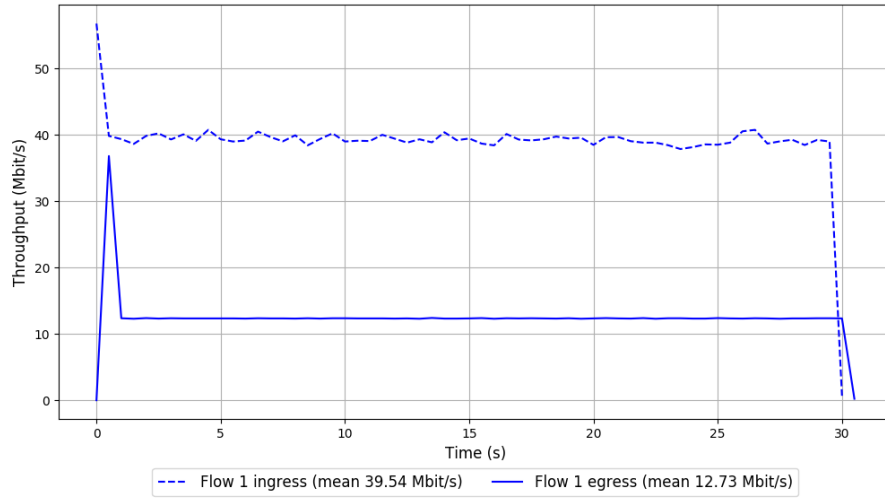
-- Flow 1:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 1.057 ms

Loss rate: 67.81%

### Run 5: Report of Copa — Data Link





Run 1: Statistics of TCP Cubic

Start at: 2019-12-11 02:51:37

End at: 2019-12-11 02:52:07

Local clock offset: -3.266 ms

Remote clock offset: 0.131 ms

# Below is generated by plot.py at 2019-12-11 04:56:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.50 Mbit/s

95th percentile per-packet one-way delay: 31.293 ms

Loss rate: 0.01%

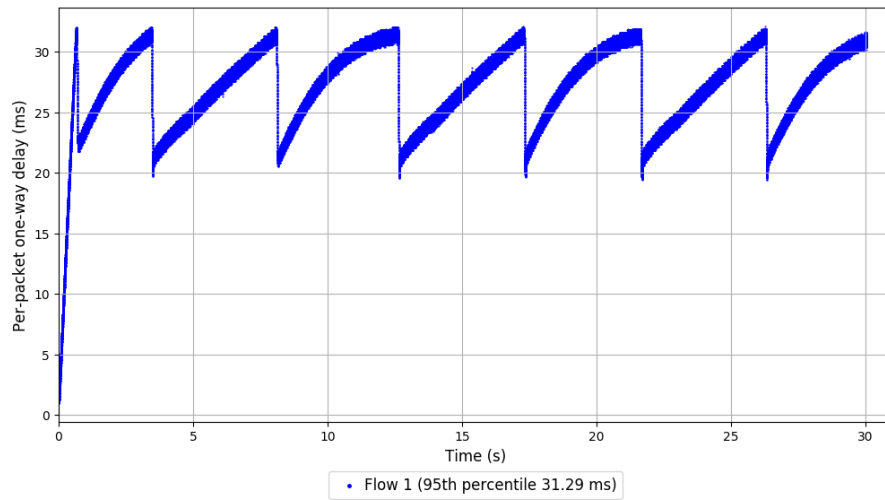
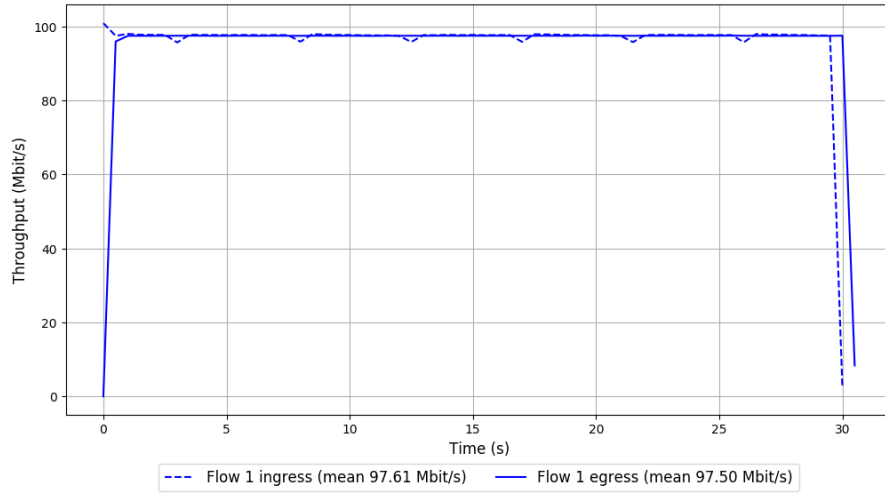
-- Flow 1:

Average throughput: 97.50 Mbit/s

95th percentile per-packet one-way delay: 31.293 ms

Loss rate: 0.01%

### Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-12-11 03:18:19

End at: 2019-12-11 03:18:49

Local clock offset: -3.615 ms

Remote clock offset: 0.273 ms

# Below is generated by plot.py at 2019-12-11 04:56:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.32 Mbit/s

95th percentile per-packet one-way delay: 32.154 ms

Loss rate: 0.01%

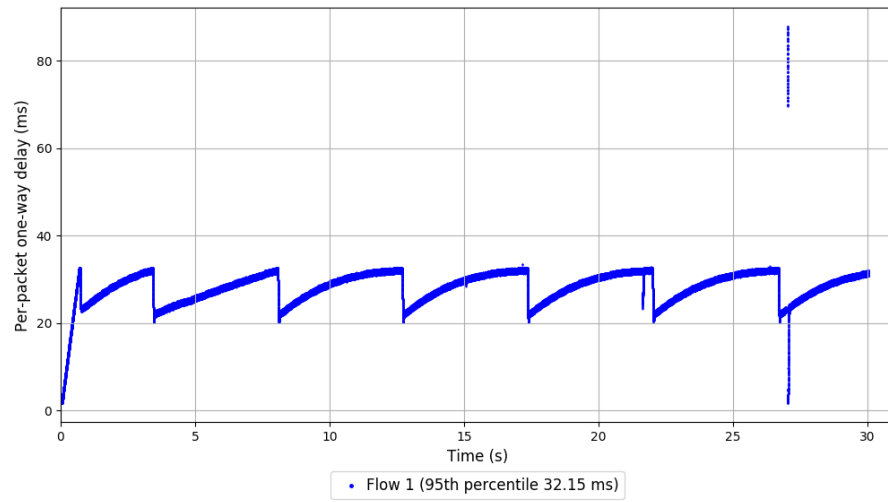
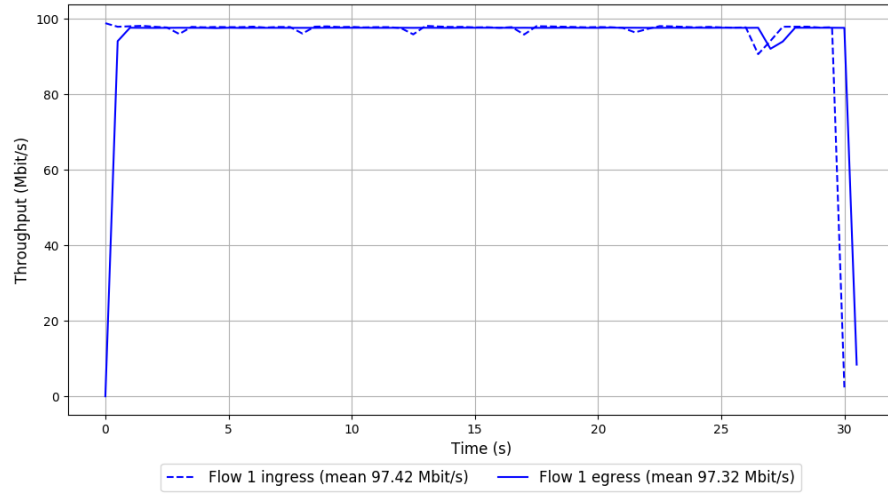
-- Flow 1:

Average throughput: 97.32 Mbit/s

95th percentile per-packet one-way delay: 32.154 ms

Loss rate: 0.01%

## Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2019-12-11 03:45:02

End at: 2019-12-11 03:45:32

Local clock offset: -1.499 ms

Remote clock offset: 0.334 ms

# Below is generated by plot.py at 2019-12-11 04:56:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 32.574 ms

Loss rate: 0.01%

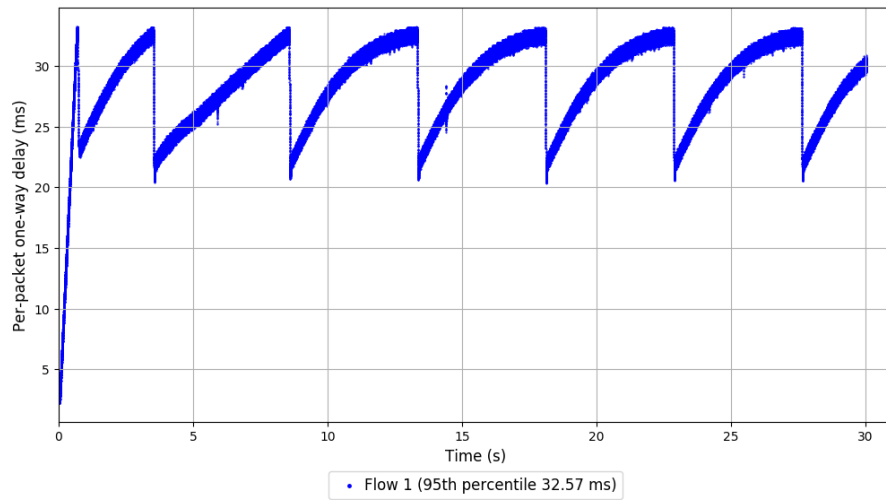
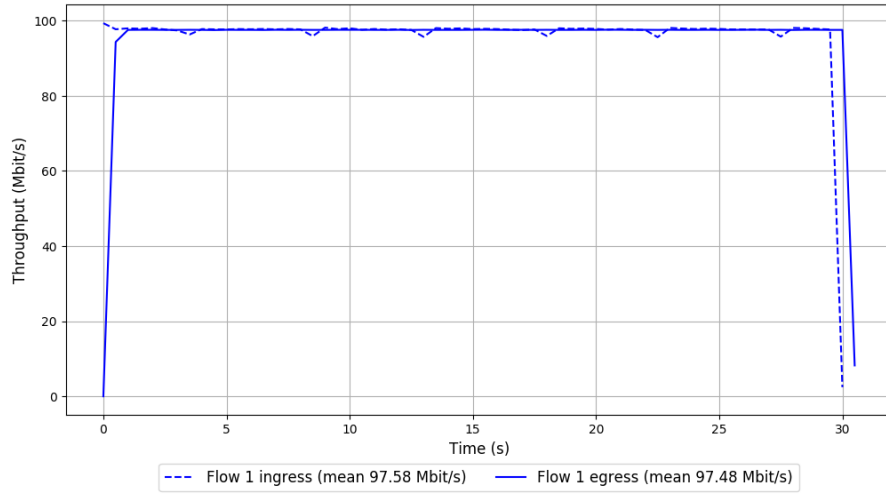
-- Flow 1:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 32.574 ms

Loss rate: 0.01%

### Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-12-11 04:11:44

End at: 2019-12-11 04:12:14

Local clock offset: -3.132 ms

Remote clock offset: 0.316 ms

# Below is generated by plot.py at 2019-12-11 04:57:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 33.107 ms

Loss rate: 0.01%

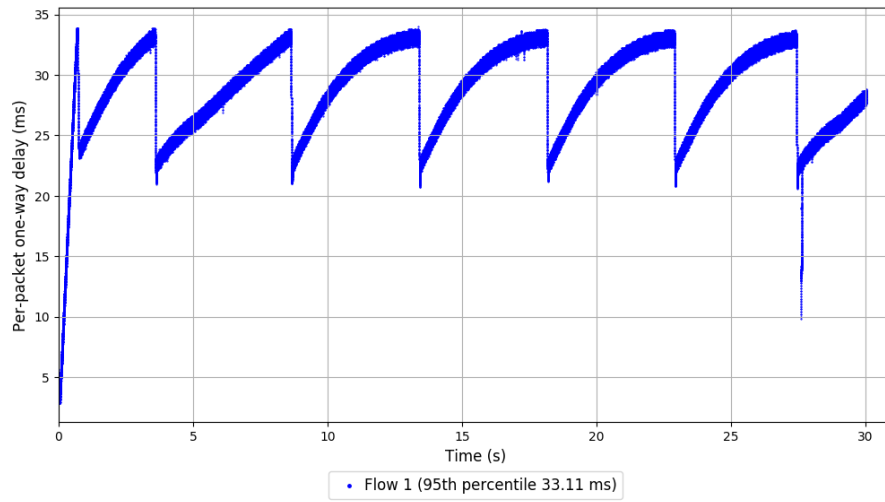
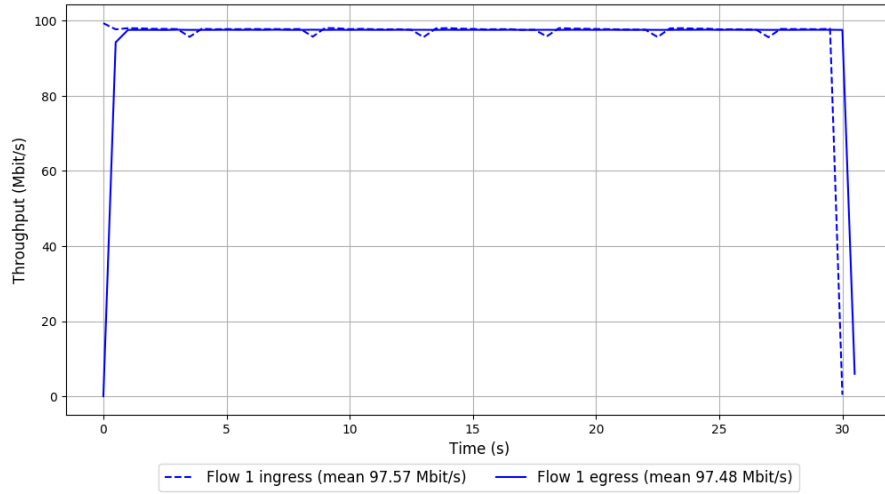
-- Flow 1:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 33.107 ms

Loss rate: 0.01%

### Run 4: Report of TCP Cubic — Data Link





Run 5: Statistics of TCP Cubic

Start at: 2019-12-11 04:38:27

End at: 2019-12-11 04:38:57

Local clock offset: -4.675 ms

Remote clock offset: 0.257 ms

# Below is generated by plot.py at 2019-12-11 04:57:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 31.135 ms

Loss rate: 0.01%

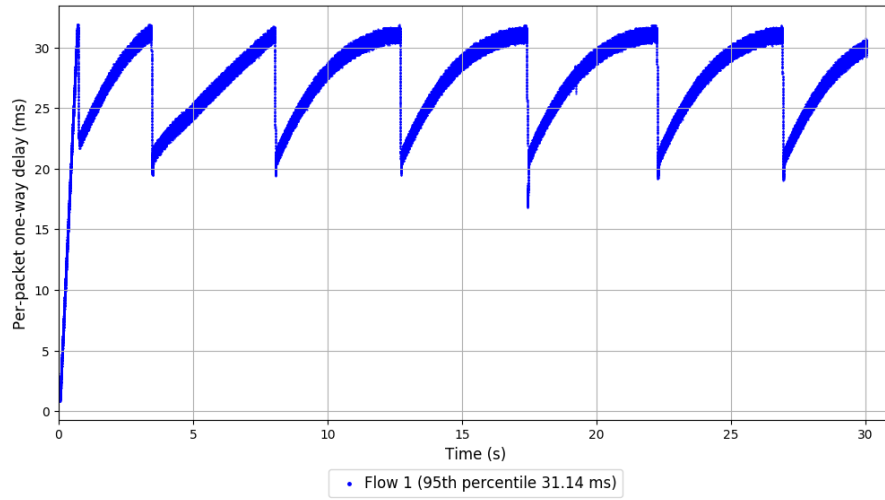
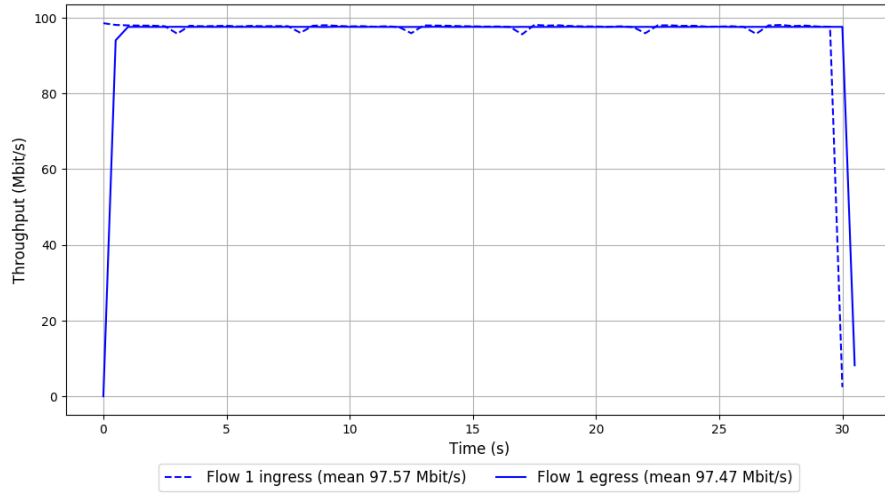
-- Flow 1:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 31.135 ms

Loss rate: 0.01%

### Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-12-11 02:50:30

End at: 2019-12-11 02:51:00

Local clock offset: -3.377 ms

Remote clock offset: 0.059 ms

# Below is generated by plot.py at 2019-12-11 04:57:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.18 Mbit/s

95th percentile per-packet one-way delay: 9.926 ms

Loss rate: 0.26%

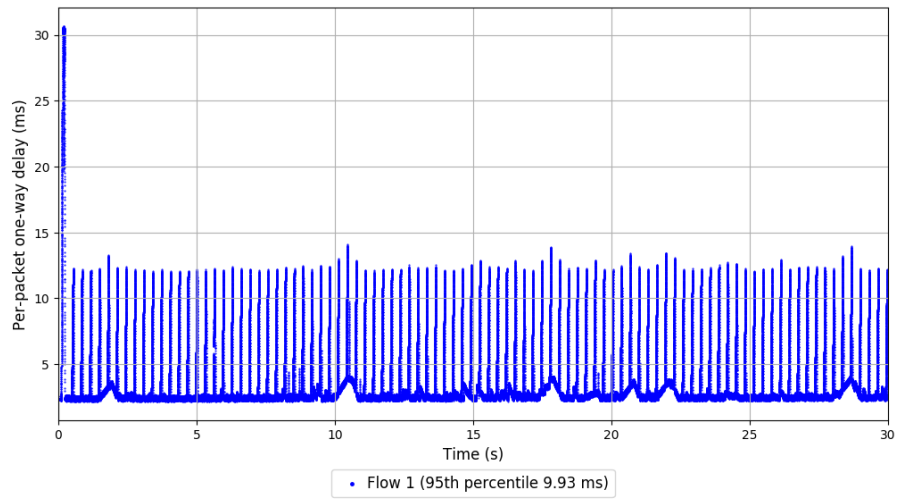
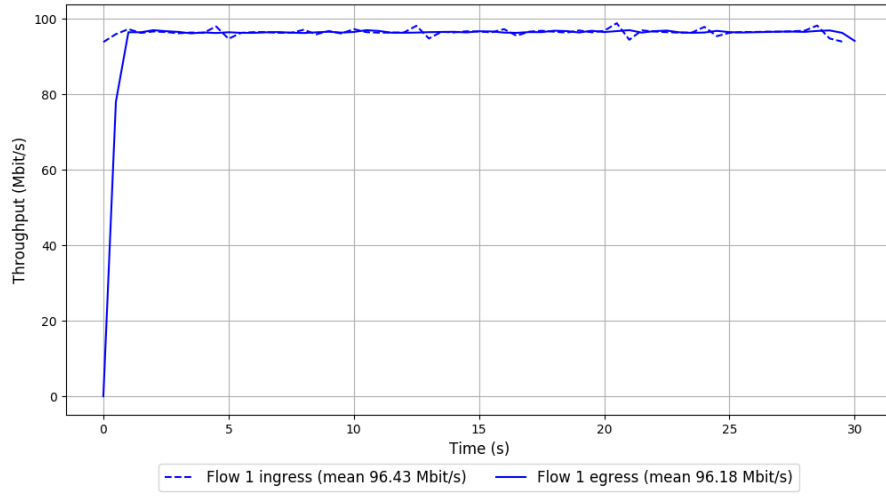
-- Flow 1:

Average throughput: 96.18 Mbit/s

95th percentile per-packet one-way delay: 9.926 ms

Loss rate: 0.26%

### Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-12-11 03:17:12

End at: 2019-12-11 03:17:42

Local clock offset: -3.713 ms

Remote clock offset: 0.165 ms

# Below is generated by plot.py at 2019-12-11 04:57:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.08 Mbit/s

95th percentile per-packet one-way delay: 10.757 ms

Loss rate: 0.24%

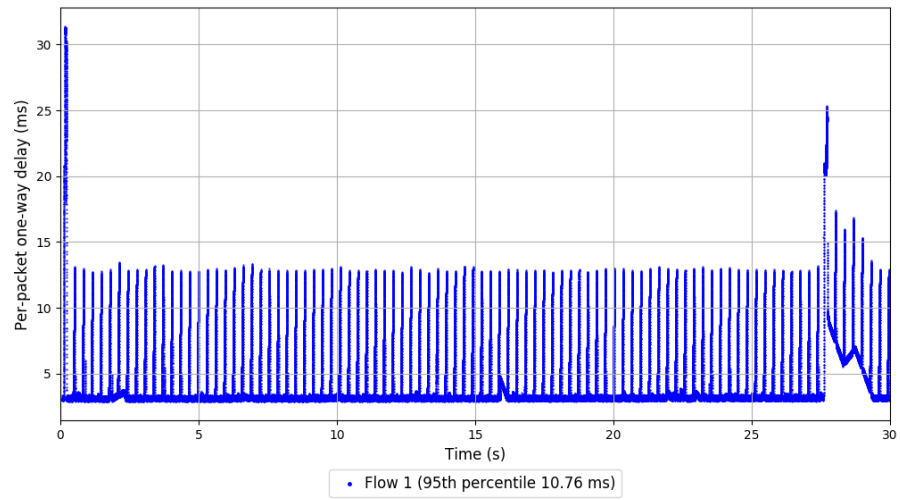
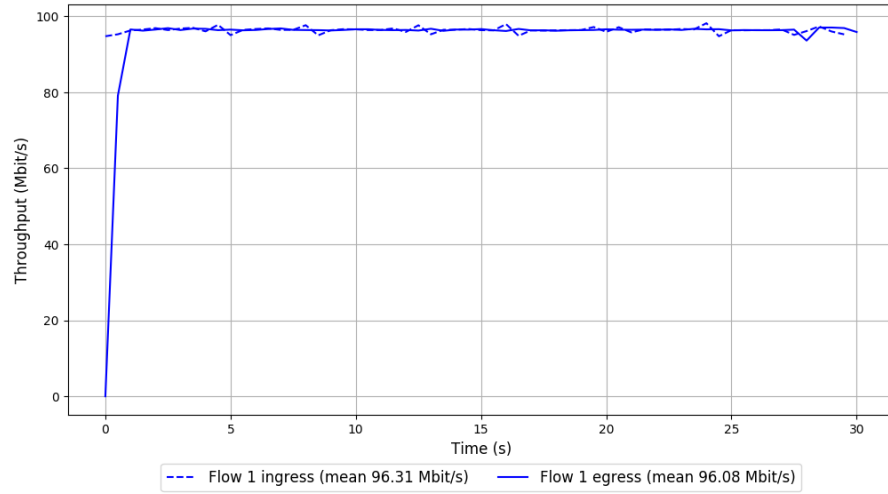
-- Flow 1:

Average throughput: 96.08 Mbit/s

95th percentile per-packet one-way delay: 10.757 ms

Loss rate: 0.24%

## Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-12-11 03:43:55

End at: 2019-12-11 03:44:25

Local clock offset: -1.287 ms

Remote clock offset: 0.391 ms

# Below is generated by plot.py at 2019-12-11 04:57:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.07 Mbit/s

95th percentile per-packet one-way delay: 8.718 ms

Loss rate: 0.32%

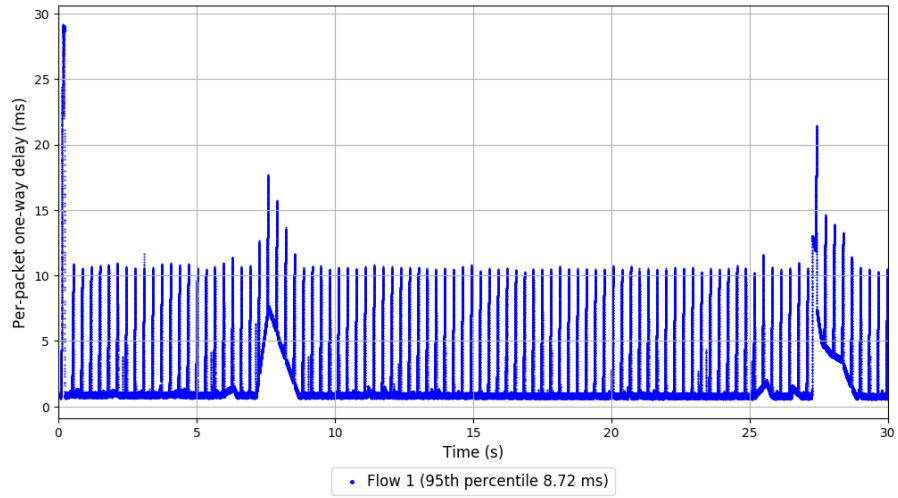
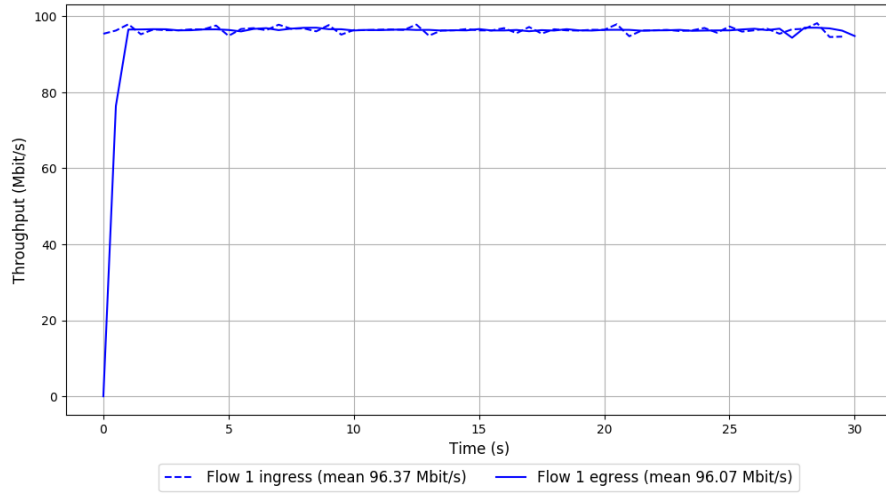
-- Flow 1:

Average throughput: 96.07 Mbit/s

95th percentile per-packet one-way delay: 8.718 ms

Loss rate: 0.32%

### Run 3: Report of FillP — Data Link





Run 4: Statistics of FillP

Start at: 2019-12-11 04:10:37

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

Local clock offset: -2.589 ms

Remote clock offset: 0.301 ms

# Below is generated by plot.py at 2019-12-11 04:57:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 12.403 ms

Loss rate: 0.25%

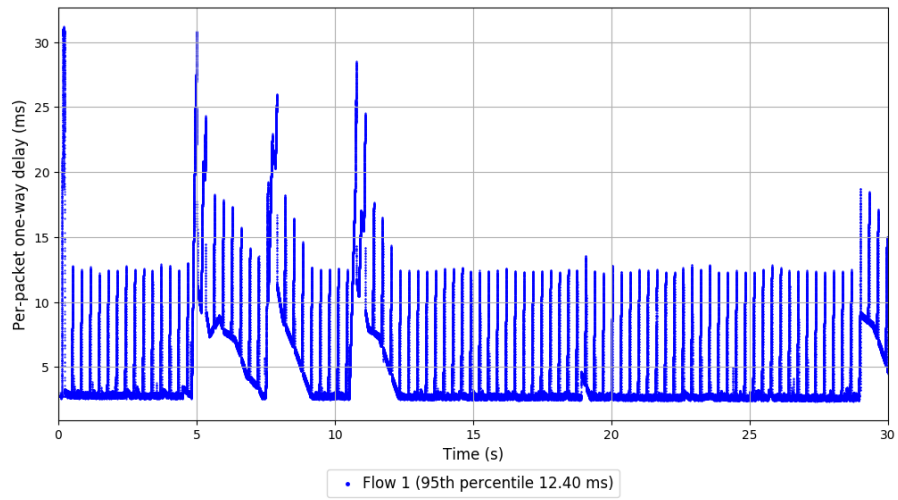
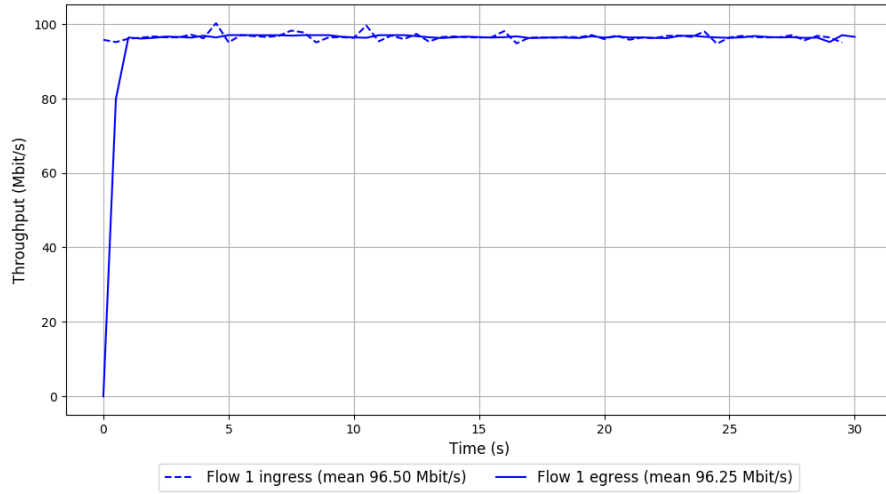
-- Flow 1:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 12.403 ms

Loss rate: 0.25%

### Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-12-11 04:37:19

End at: 2019-12-11 04:37:50

Local clock offset: -4.69 ms

Remote clock offset: 0.279 ms

# Below is generated by plot.py at 2019-12-11 04:57:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.02 Mbit/s

95th percentile per-packet one-way delay: 8.554 ms

Loss rate: 0.32%

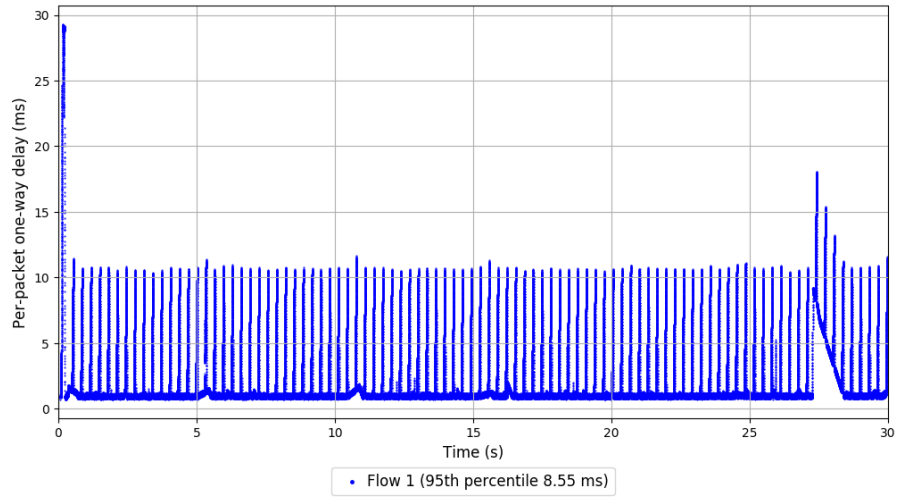
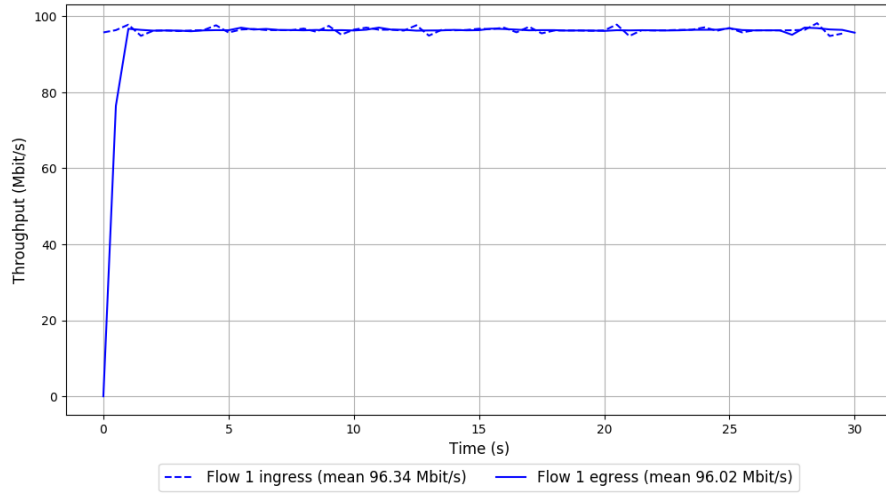
-- Flow 1:

Average throughput: 96.02 Mbit/s

95th percentile per-packet one-way delay: 8.554 ms

Loss rate: 0.32%

### Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-12-11 02:59:32

End at: 2019-12-11 03:00:02

Local clock offset: -4.331 ms

Remote clock offset: 0.114 ms

# Below is generated by plot.py at 2019-12-11 04:57:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.79 Mbit/s

95th percentile per-packet one-way delay: 7.035 ms

Loss rate: 0.08%

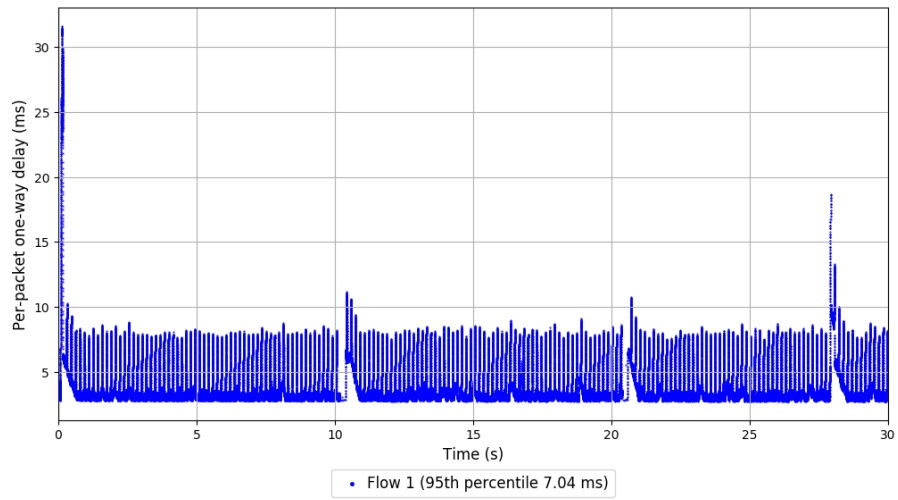
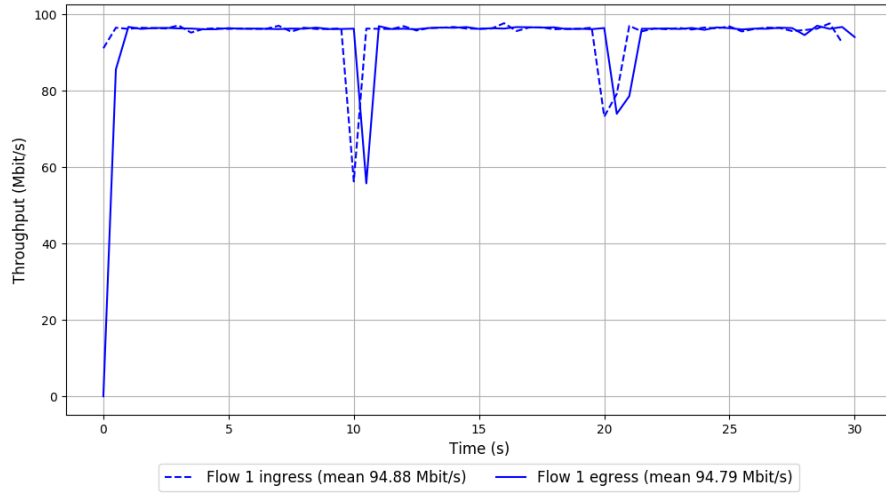
-- Flow 1:

Average throughput: 94.79 Mbit/s

95th percentile per-packet one-way delay: 7.035 ms

Loss rate: 0.08%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-12-11 03:26:13

End at: 2019-12-11 03:26:43

Local clock offset: -2.541 ms

Remote clock offset: 0.231 ms

# Below is generated by plot.py at 2019-12-11 04:58:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.03 Mbit/s

95th percentile per-packet one-way delay: 5.810 ms

Loss rate: 0.07%

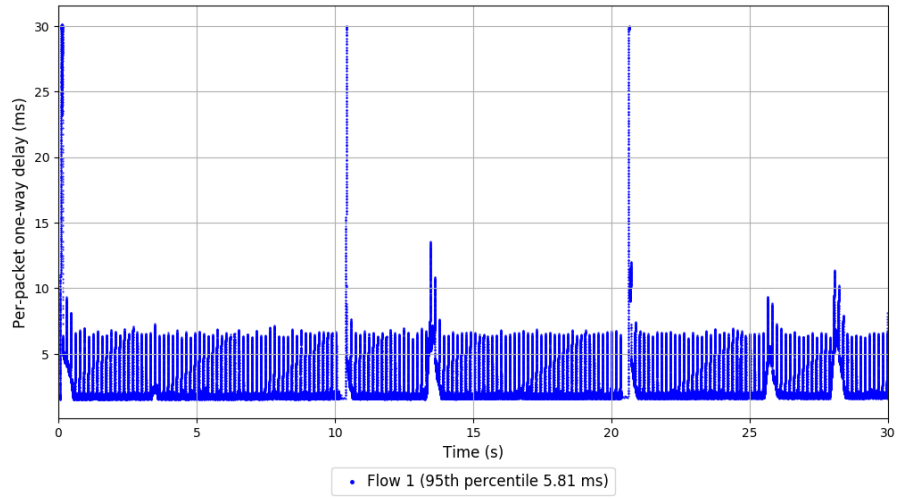
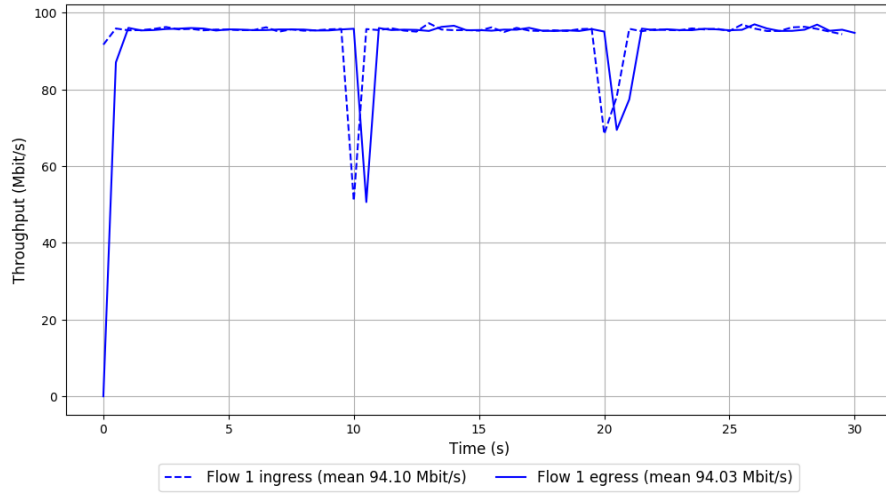
-- Flow 1:

Average throughput: 94.03 Mbit/s

95th percentile per-packet one-way delay: 5.810 ms

Loss rate: 0.07%

Run 2: Report of FillP-Sheep — Data Link





Run 3: Statistics of FillP-Sheep

Start at: 2019-12-11 03:52:56

End at: 2019-12-11 03:53:26

Local clock offset: -2.151 ms

Remote clock offset: 0.373 ms

# Below is generated by plot.py at 2019-12-11 04:58:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.75 Mbit/s

95th percentile per-packet one-way delay: 5.391 ms

Loss rate: 0.07%

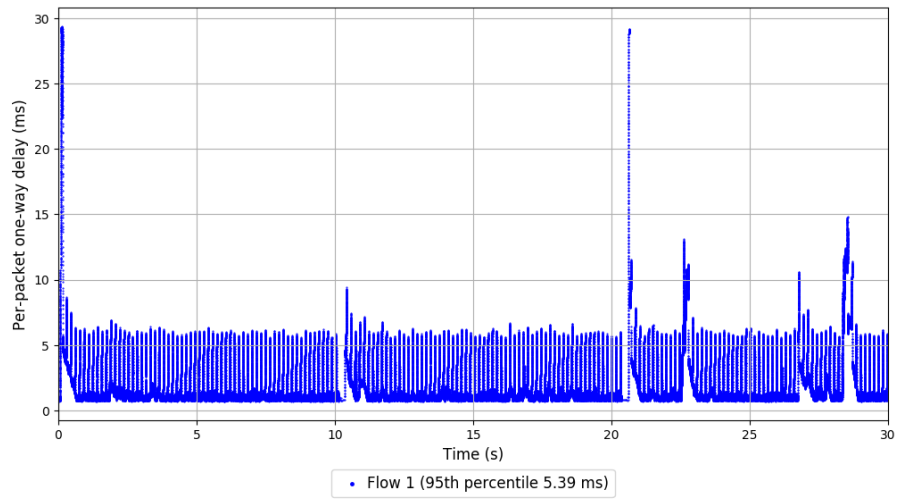
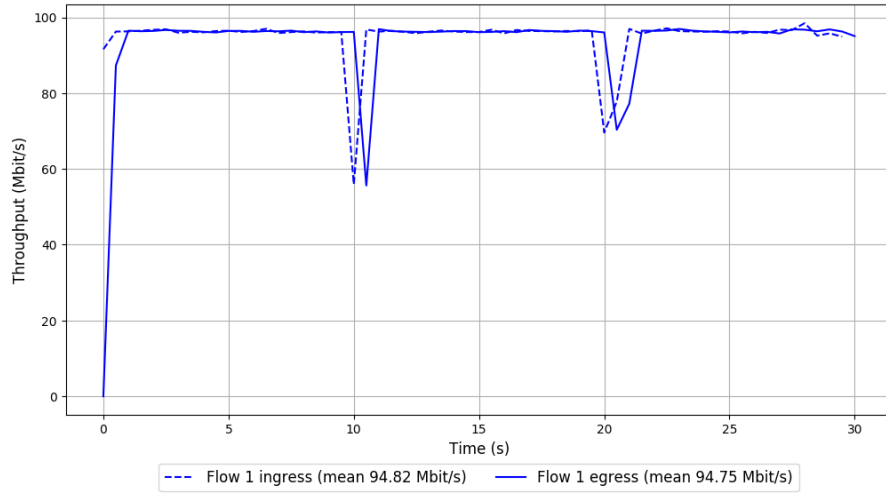
-- Flow 1:

Average throughput: 94.75 Mbit/s

95th percentile per-packet one-way delay: 5.391 ms

Loss rate: 0.07%

### Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-12-11 04:19:38

End at: 2019-12-11 04:20:08

Local clock offset: -4.395 ms

Remote clock offset: 0.35 ms

# Below is generated by plot.py at 2019-12-11 04:58:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.78 Mbit/s

95th percentile per-packet one-way delay: 7.201 ms

Loss rate: 0.09%

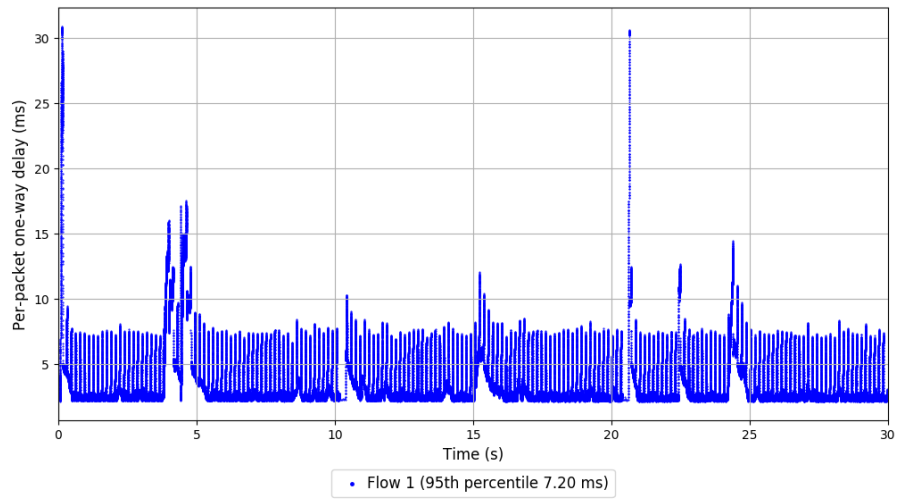
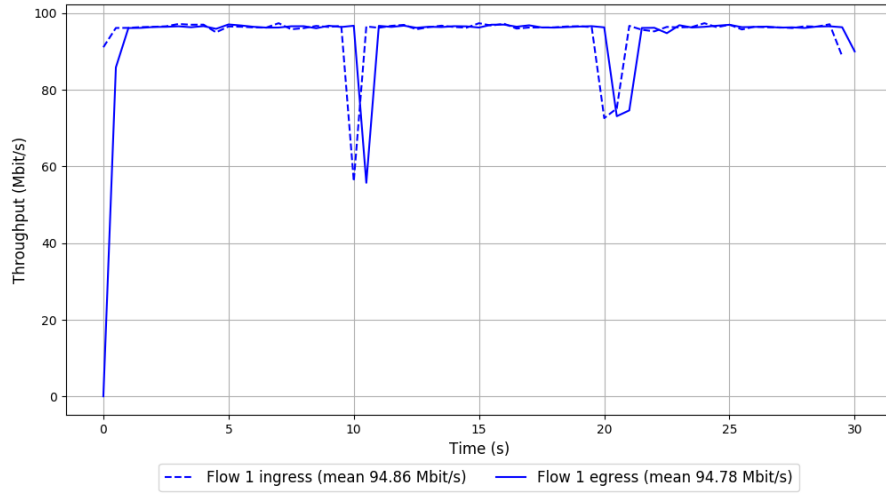
-- Flow 1:

Average throughput: 94.78 Mbit/s

95th percentile per-packet one-way delay: 7.201 ms

Loss rate: 0.09%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-12-11 04:46:21

End at: 2019-12-11 04:46:51

Local clock offset: -5.449 ms

Remote clock offset: 0.212 ms

# Below is generated by plot.py at 2019-12-11 04:58:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.11 Mbit/s

95th percentile per-packet one-way delay: 7.007 ms

Loss rate: 0.09%

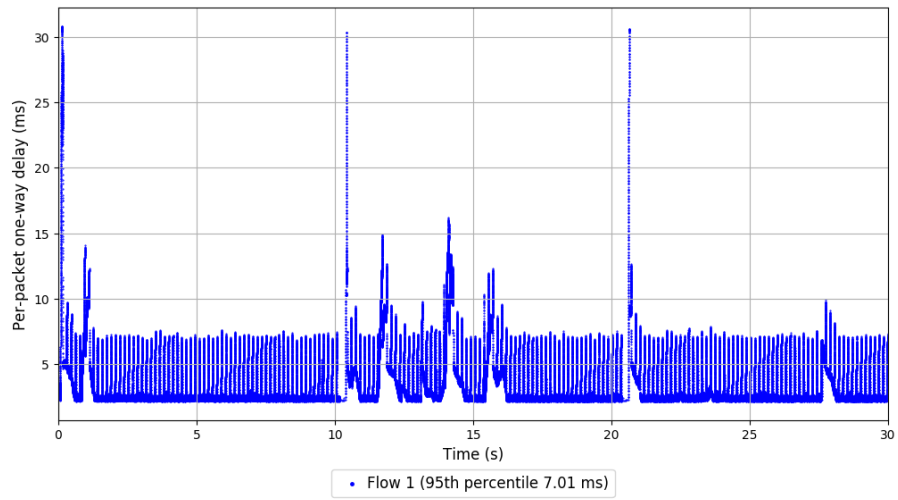
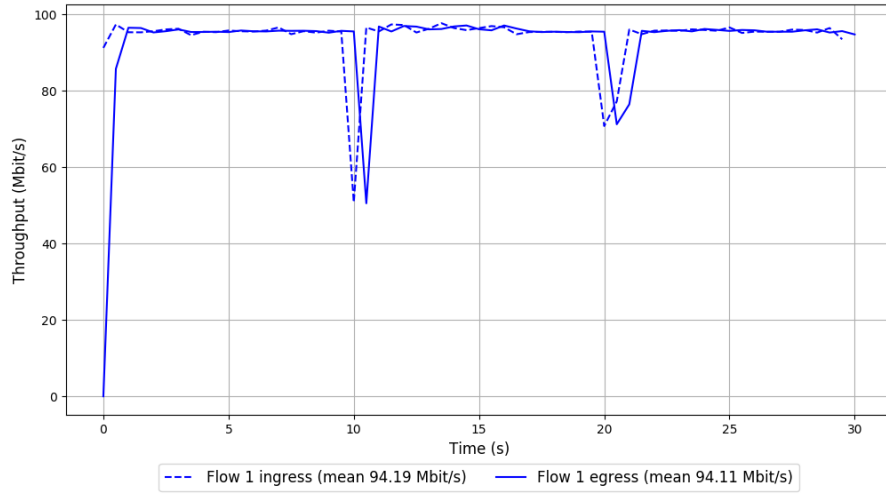
-- Flow 1:

Average throughput: 94.11 Mbit/s

95th percentile per-packet one-way delay: 7.007 ms

Loss rate: 0.09%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-12-11 02:58:22

End at: 2019-12-11 02:58:52

Local clock offset: -4.079 ms

Remote clock offset: 0.21 ms

# Below is generated by plot.py at 2019-12-11 04:58:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.28 Mbit/s

95th percentile per-packet one-way delay: 4.457 ms

Loss rate: 0.00%

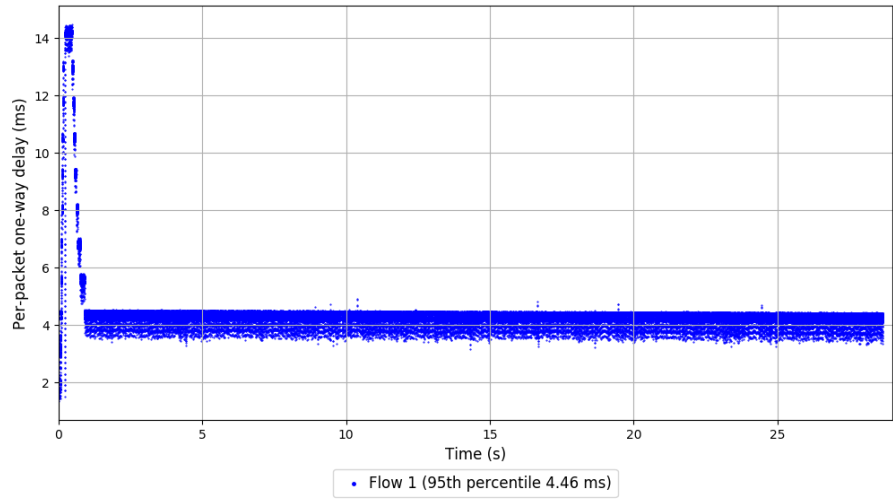
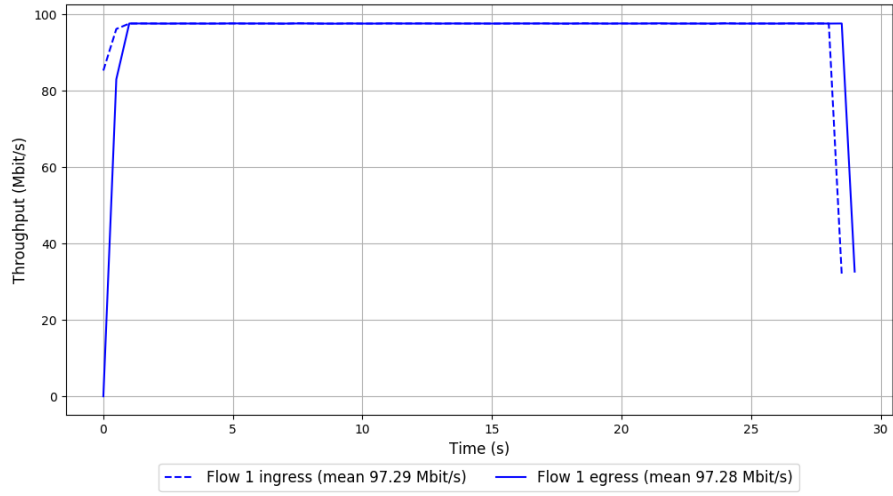
-- Flow 1:

Average throughput: 97.28 Mbit/s

95th percentile per-packet one-way delay: 4.457 ms

Loss rate: 0.00%

### Run 1: Report of Indigo — Data Link





Run 2: Statistics of Indigo

Start at: 2019-12-11 03:25:04

End at: 2019-12-11 03:25:34

Local clock offset: -2.646 ms

Remote clock offset: 0.238 ms

# Below is generated by plot.py at 2019-12-11 04:58:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.21 Mbit/s

95th percentile per-packet one-way delay: 4.629 ms

Loss rate: 0.00%

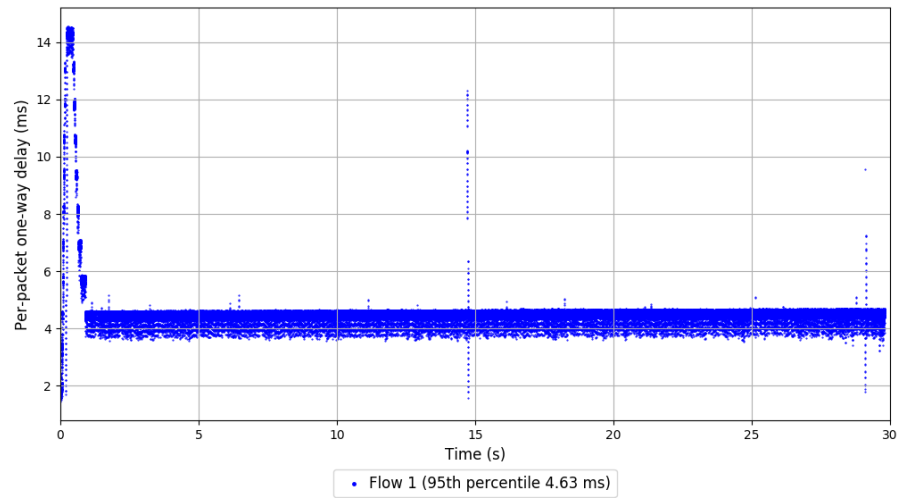
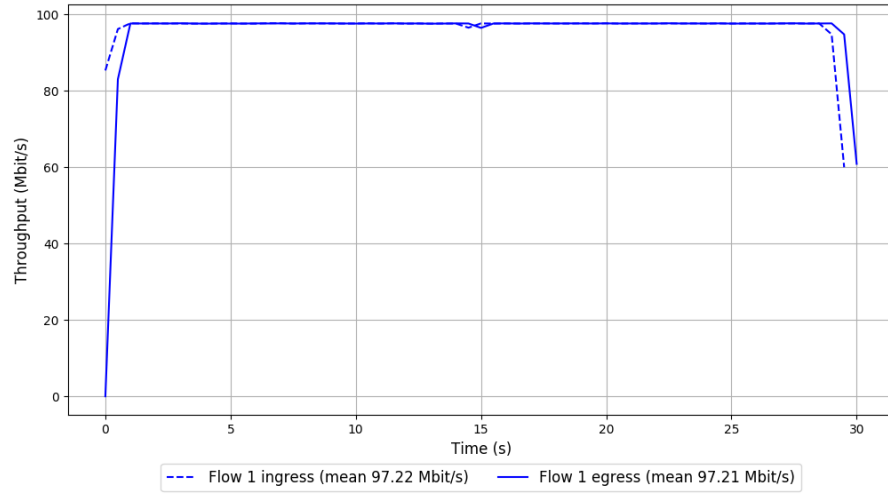
-- Flow 1:

Average throughput: 97.21 Mbit/s

95th percentile per-packet one-way delay: 4.629 ms

Loss rate: 0.00%

## Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-12-11 03:51:46

End at: 2019-12-11 03:52:16

Local clock offset: -2.141 ms

Remote clock offset: 0.382 ms

# Below is generated by plot.py at 2019-12-11 04:58:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.20 Mbit/s

95th percentile per-packet one-way delay: 5.112 ms

Loss rate: 0.00%

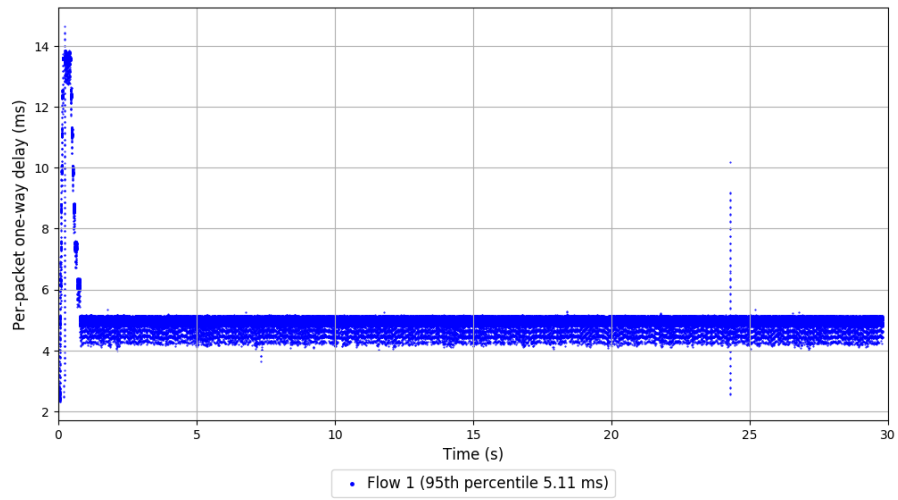
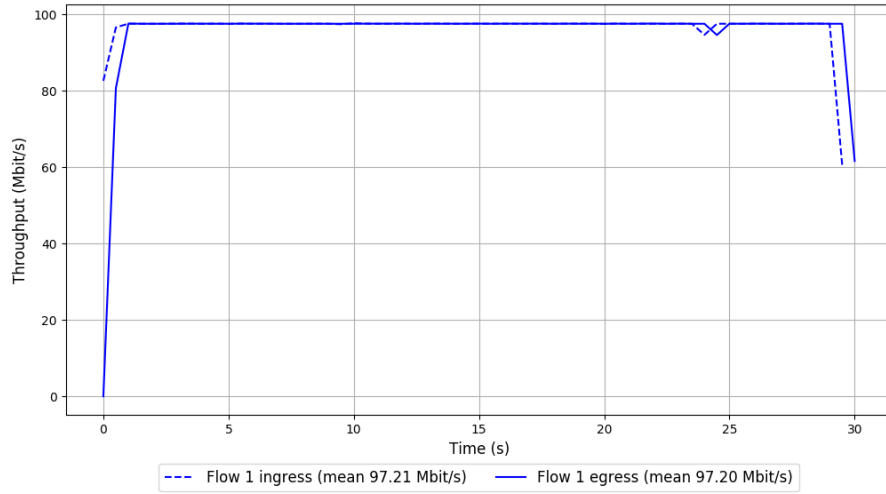
-- Flow 1:

Average throughput: 97.20 Mbit/s

95th percentile per-packet one-way delay: 5.112 ms

Loss rate: 0.00%

### Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-12-11 04:18:29

End at: 2019-12-11 04:18:59

Local clock offset: -4.863 ms

Remote clock offset: 0.319 ms

# Below is generated by plot.py at 2019-12-11 04:59:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.24 Mbit/s

95th percentile per-packet one-way delay: 4.398 ms

Loss rate: 0.00%

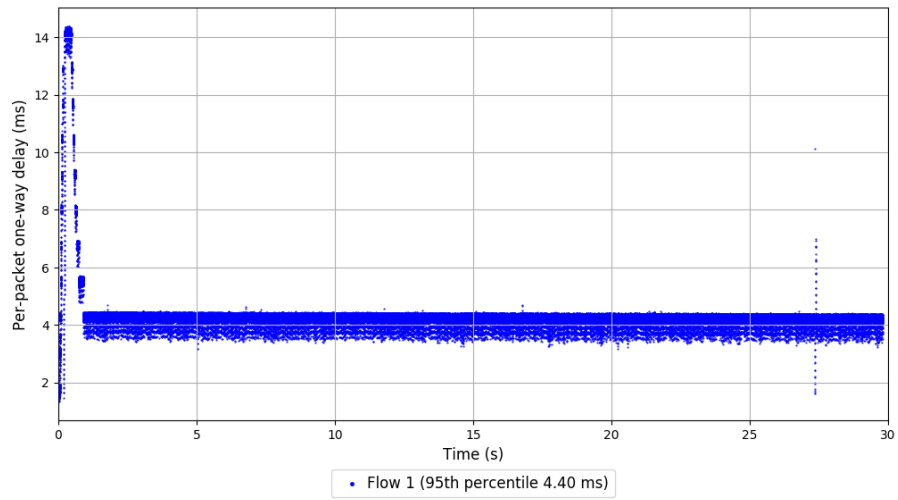
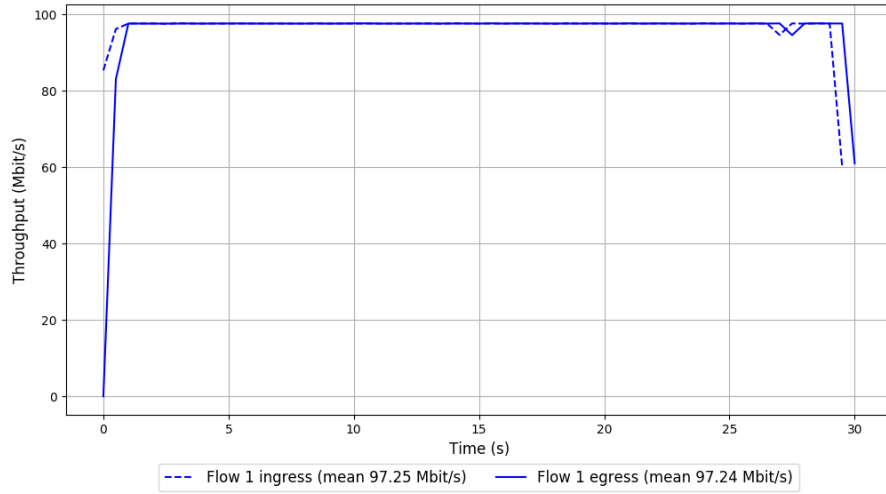
-- Flow 1:

Average throughput: 97.24 Mbit/s

95th percentile per-packet one-way delay: 4.398 ms

Loss rate: 0.00%

### Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-12-11 04:45:11

End at: 2019-12-11 04:45:41

Local clock offset: -6.076 ms

Remote clock offset: 0.218 ms

# Below is generated by plot.py at 2019-12-11 04:59:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.21 Mbit/s

95th percentile per-packet one-way delay: 5.762 ms

Loss rate: 0.00%

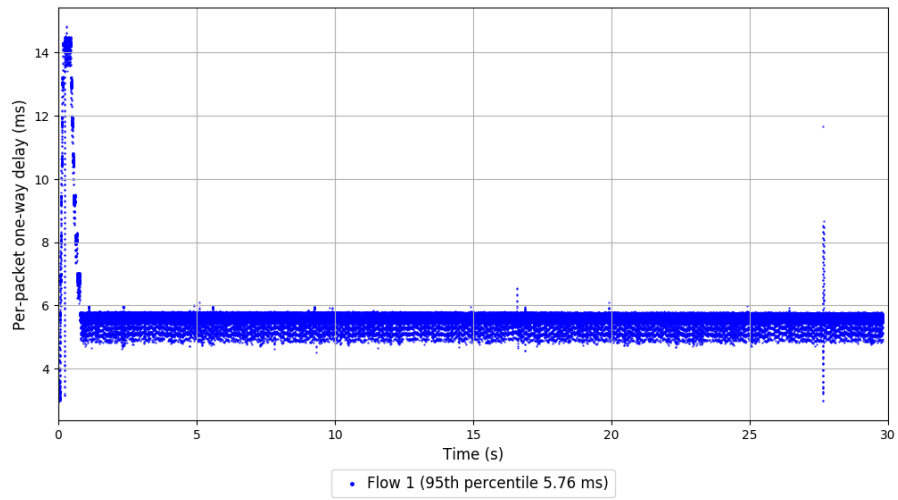
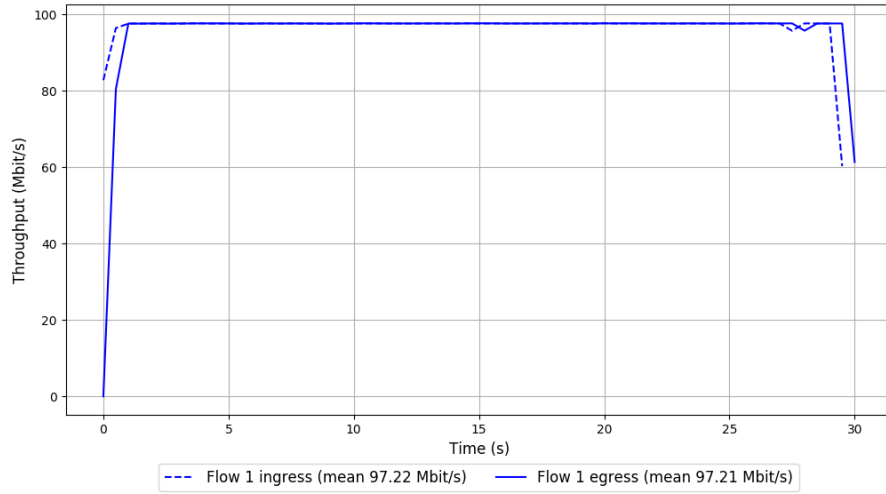
-- Flow 1:

Average throughput: 97.21 Mbit/s

95th percentile per-packet one-way delay: 5.762 ms

Loss rate: 0.00%

### Run 5: Report of Indigo — Data Link





Run 1: Statistics of Indigo-MusesC3

Start at: 2019-12-11 02:54:57

End at: 2019-12-11 02:55:28

Local clock offset: -2.313 ms

Remote clock offset: 0.138 ms

# Below is generated by plot.py at 2019-12-11 04:59:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.61 Mbit/s

95th percentile per-packet one-way delay: 4.078 ms

Loss rate: 0.00%

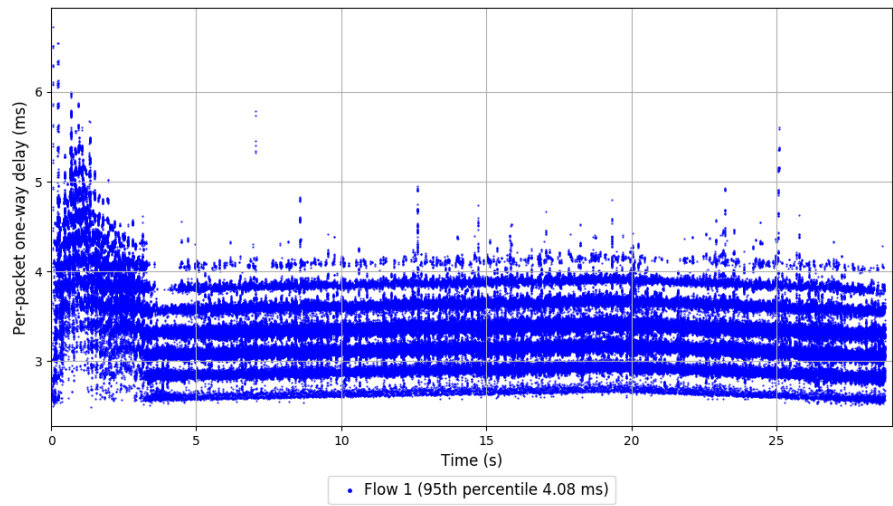
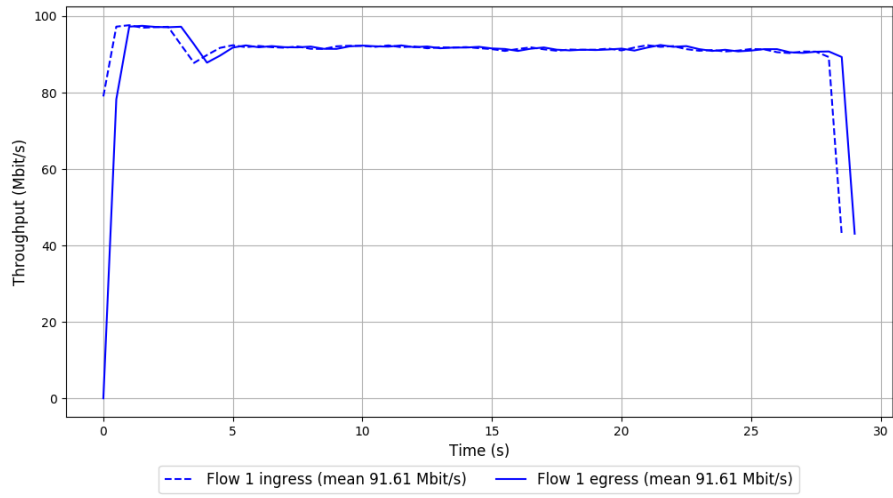
-- Flow 1:

Average throughput: 91.61 Mbit/s

95th percentile per-packet one-way delay: 4.078 ms

Loss rate: 0.00%

### Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-12-11 03:21:39

End at: 2019-12-11 03:22:09

Local clock offset: -3.183 ms

Remote clock offset: 0.172 ms

# Below is generated by plot.py at 2019-12-11 04:59:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.75 Mbit/s

95th percentile per-packet one-way delay: 4.424 ms

Loss rate: 0.00%

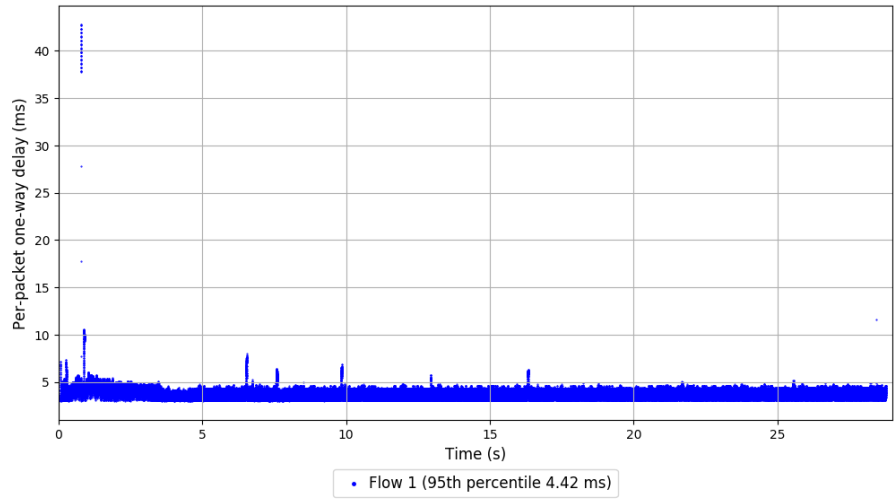
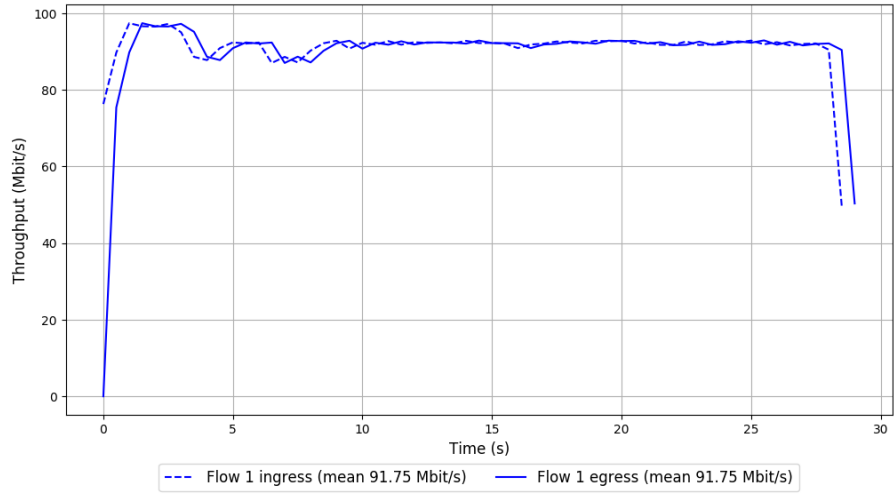
-- Flow 1:

Average throughput: 91.75 Mbit/s

95th percentile per-packet one-way delay: 4.424 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-12-11 03:48:22

End at: 2019-12-11 03:48:52

Local clock offset: -1.938 ms

Remote clock offset: 0.347 ms

# Below is generated by plot.py at 2019-12-11 05:00:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.13 Mbit/s

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

Loss rate: 0.00%

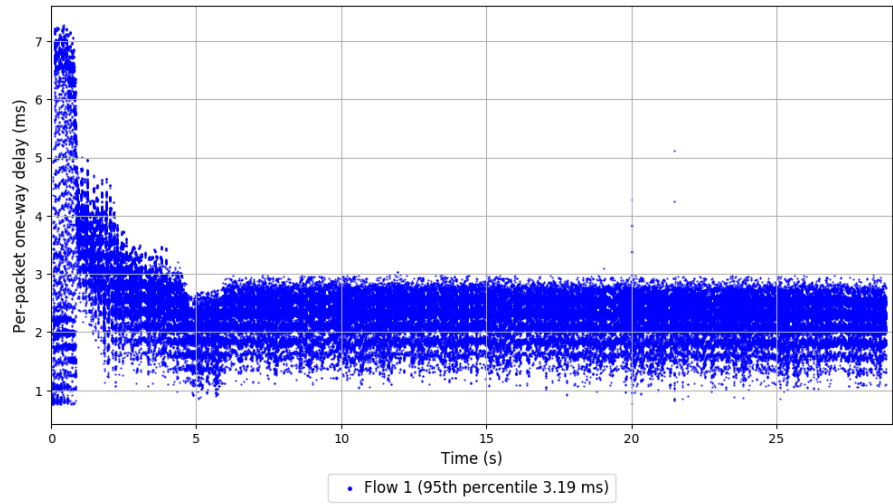
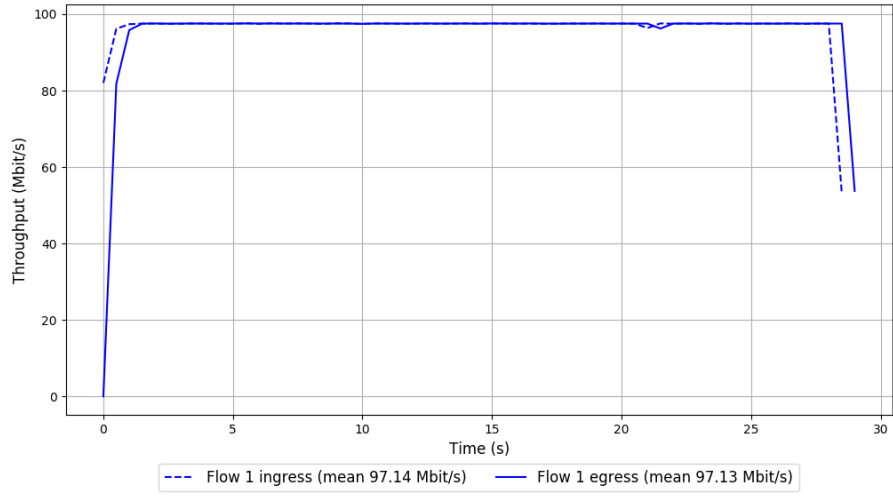
-- Flow 1:

Average throughput: 97.13 Mbit/s

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

Loss rate: 0.00%

### Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-12-11 04:15:04

End at: 2019-12-11 04:15:34

Local clock offset: -3.495 ms

Remote clock offset: 0.383 ms

# Below is generated by plot.py at 2019-12-11 05:00:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.14 Mbit/s

95th percentile per-packet one-way delay: 3.077 ms

Loss rate: 0.00%

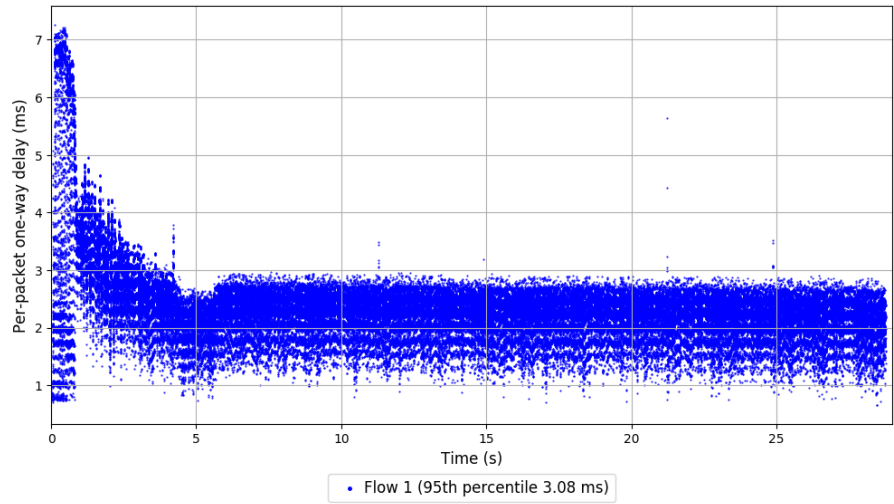
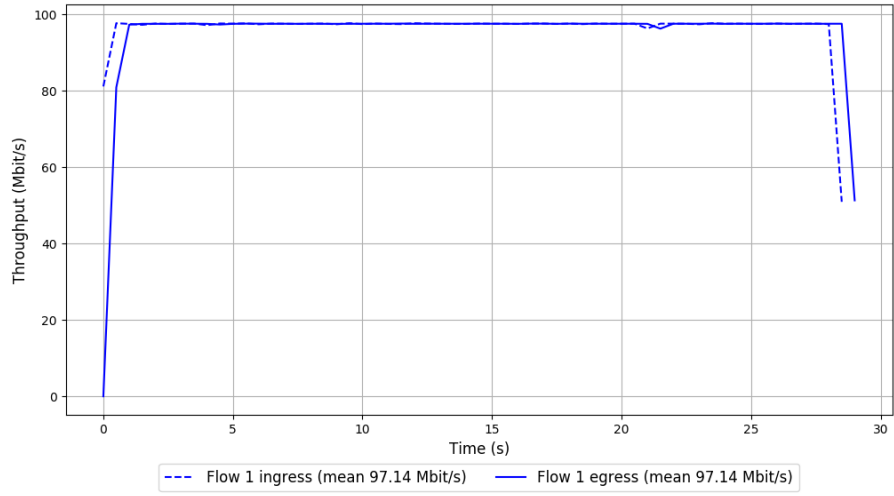
-- Flow 1:

Average throughput: 97.14 Mbit/s

95th percentile per-packet one-way delay: 3.077 ms

Loss rate: 0.00%

### Run 4: Report of Indigo-MusesC3 — Data Link





Run 5: Statistics of Indigo-MusesC3

Start at: 2019-12-11 04:41:47

End at: 2019-12-11 04:42:17

Local clock offset: -5.097 ms

Remote clock offset: 0.219 ms

# Below is generated by plot.py at 2019-12-11 05:00:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.10 Mbit/s

95th percentile per-packet one-way delay: 3.295 ms

Loss rate: 0.00%

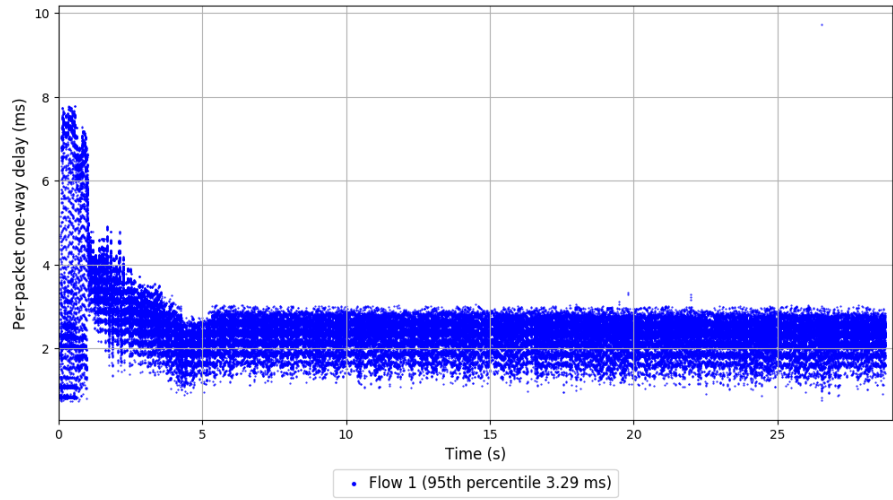
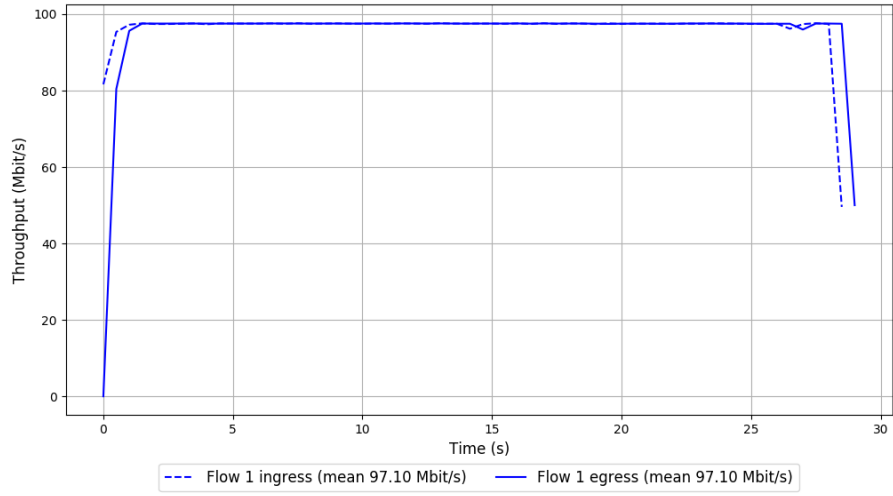
-- Flow 1:

Average throughput: 97.10 Mbit/s

95th percentile per-packet one-way delay: 3.295 ms

Loss rate: 0.00%

### Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-12-11 02:49:23

End at: 2019-12-11 02:49:53

Local clock offset: -3.22 ms

Remote clock offset: 0.115 ms

# Below is generated by plot.py at 2019-12-11 05:00:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 55.34 Mbit/s

95th percentile per-packet one-way delay: 3.259 ms

Loss rate: 0.00%

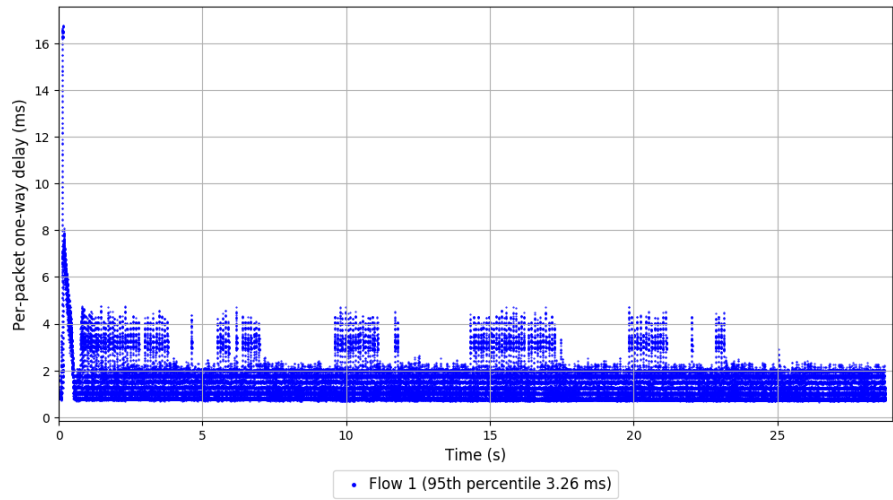
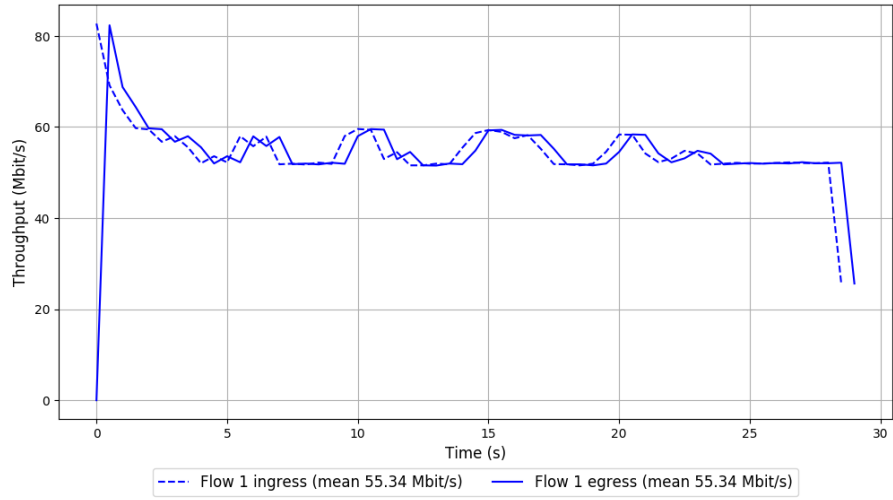
-- Flow 1:

Average throughput: 55.34 Mbit/s

95th percentile per-packet one-way delay: 3.259 ms

Loss rate: 0.00%

### Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-12-11 03:16:05

End at: 2019-12-11 03:16:35

Local clock offset: -3.08 ms

Remote clock offset: 0.195 ms

# Below is generated by plot.py at 2019-12-11 05:00:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 64.15 Mbit/s

95th percentile per-packet one-way delay: 4.151 ms

Loss rate: 0.00%

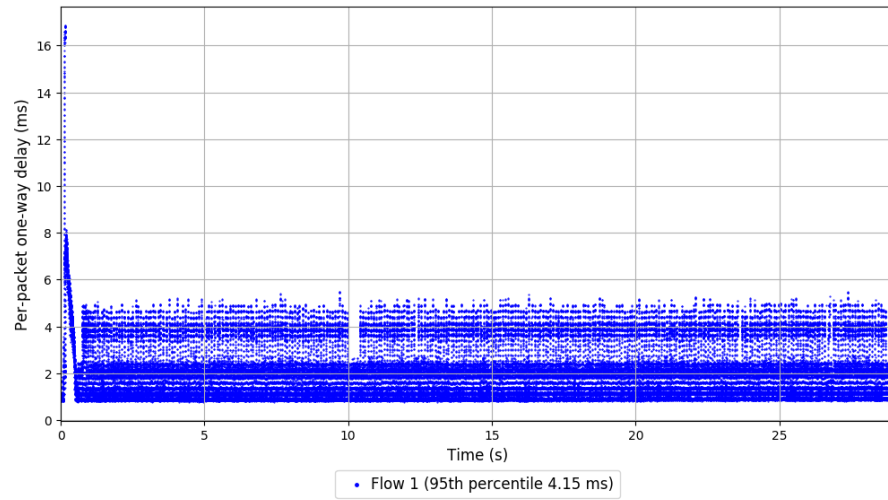
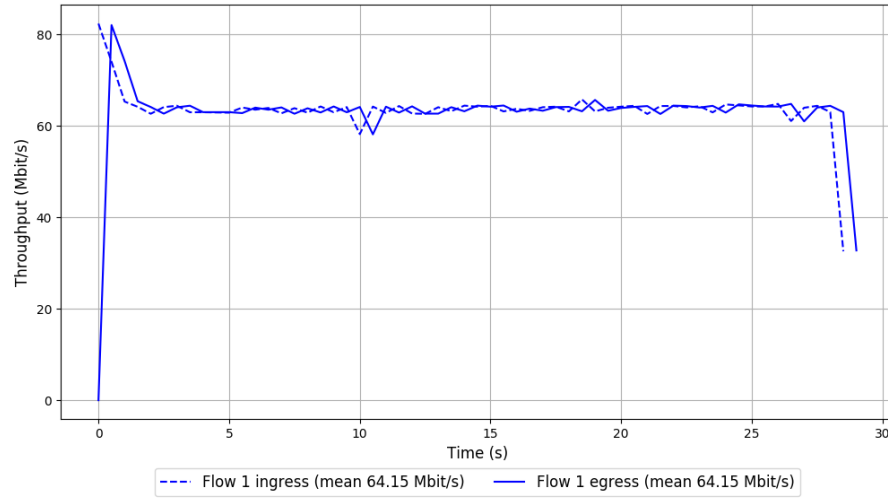
-- Flow 1:

Average throughput: 64.15 Mbit/s

95th percentile per-packet one-way delay: 4.151 ms

Loss rate: 0.00%

## Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-12-11 03:42:48

End at: 2019-12-11 03:43:18

Local clock offset: -0.969 ms

Remote clock offset: 0.313 ms

# Below is generated by plot.py at 2019-12-11 05:00:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 47.42 Mbit/s

95th percentile per-packet one-way delay: 3.246 ms

Loss rate: 0.00%

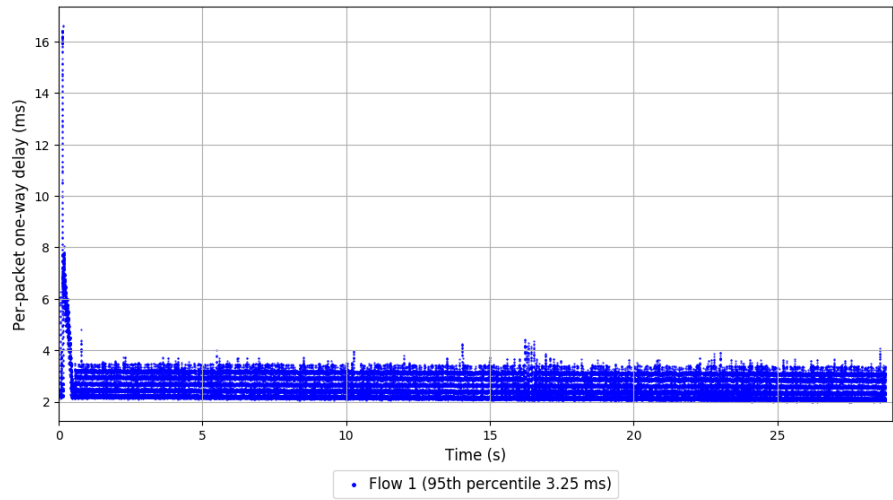
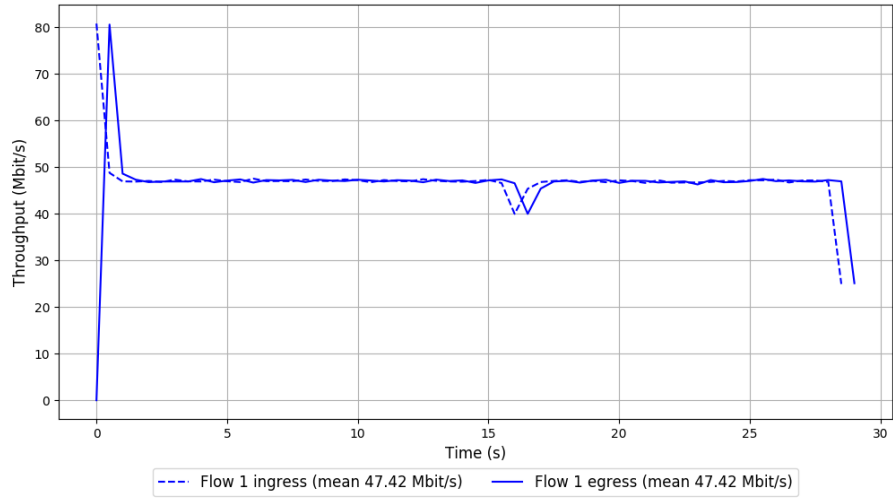
-- Flow 1:

Average throughput: 47.42 Mbit/s

95th percentile per-packet one-way delay: 3.246 ms

Loss rate: 0.00%

### Run 3: Report of Indigo-MusesC5 — Data Link





Run 4: Statistics of Indigo-MusesC5

Start at: 2019-12-11 04:09:31

End at: 2019-12-11 04:10:01

Local clock offset: -2.037 ms

Remote clock offset: 0.327 ms

# Below is generated by plot.py at 2019-12-11 05:00:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 42.62 Mbit/s

95th percentile per-packet one-way delay: 3.890 ms

Loss rate: 0.00%

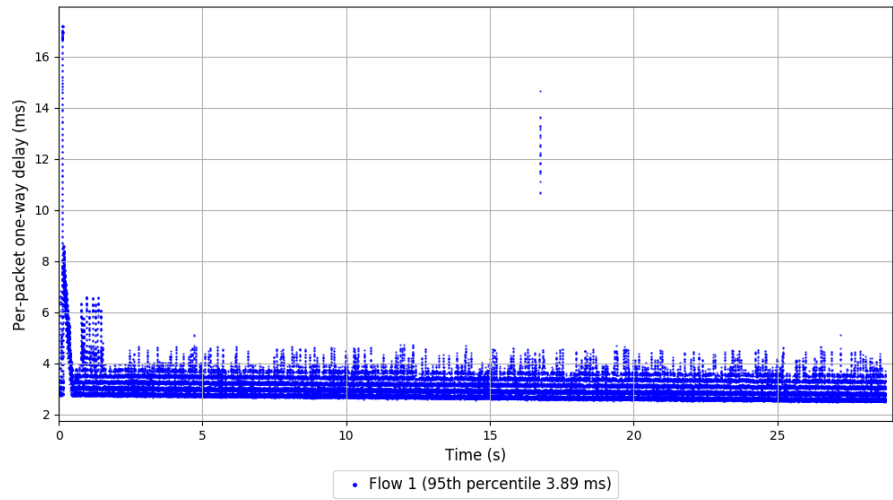
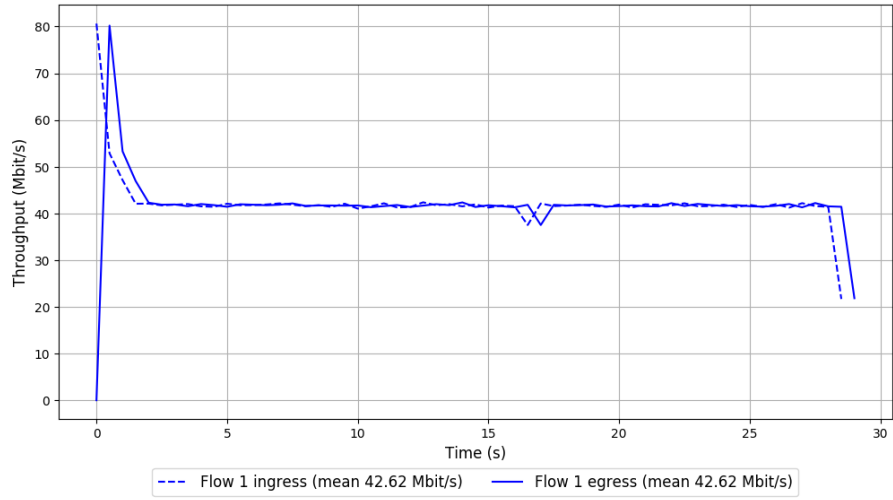
-- Flow 1:

Average throughput: 42.62 Mbit/s

95th percentile per-packet one-way delay: 3.890 ms

Loss rate: 0.00%

### Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-12-11 04:36:14

End at: 2019-12-11 04:36:44

Local clock offset: -5.431 ms

Remote clock offset: 0.22 ms

# Below is generated by plot.py at 2019-12-11 05:00:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 39.74 Mbit/s

95th percentile per-packet one-way delay: 4.366 ms

Loss rate: 0.00%

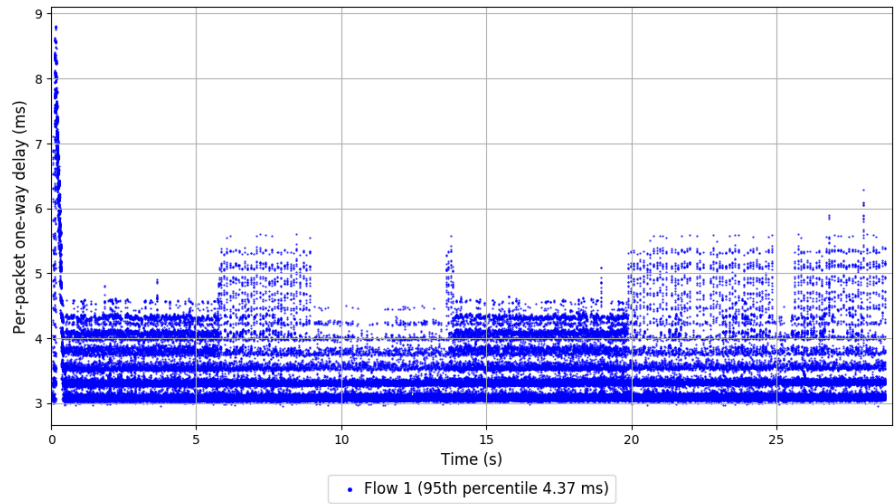
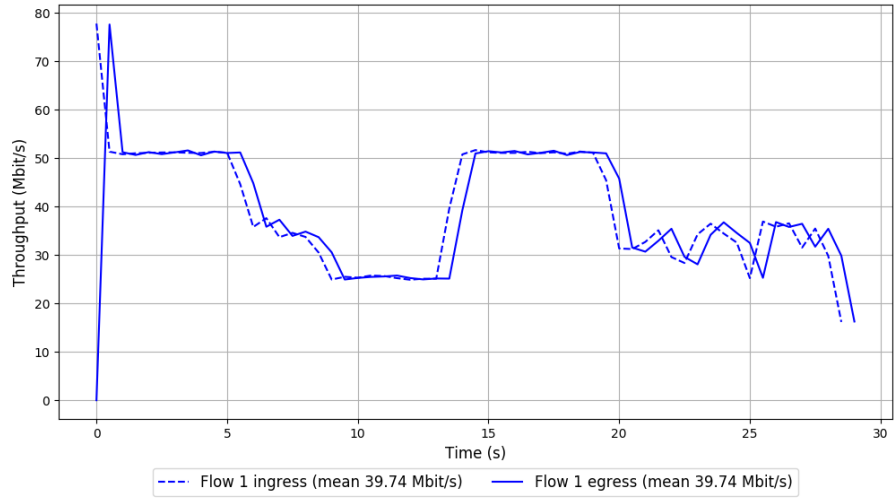
-- Flow 1:

Average throughput: 39.74 Mbit/s

95th percentile per-packet one-way delay: 4.366 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-12-11 02:40:28

End at: 2019-12-11 02:40:58

Local clock offset: -6.7 ms

Remote clock offset: 0.149 ms

# Below is generated by plot.py at 2019-12-11 05:00:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 75.60 Mbit/s

95th percentile per-packet one-way delay: 4.747 ms

Loss rate: 0.00%

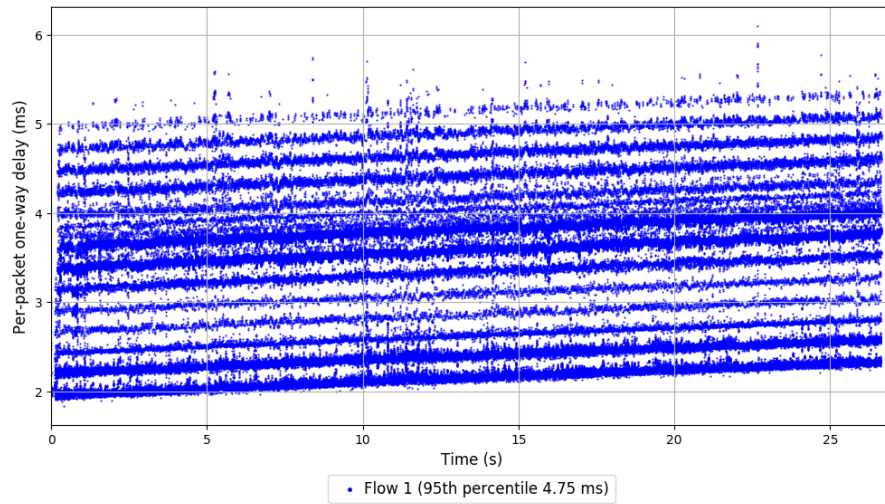
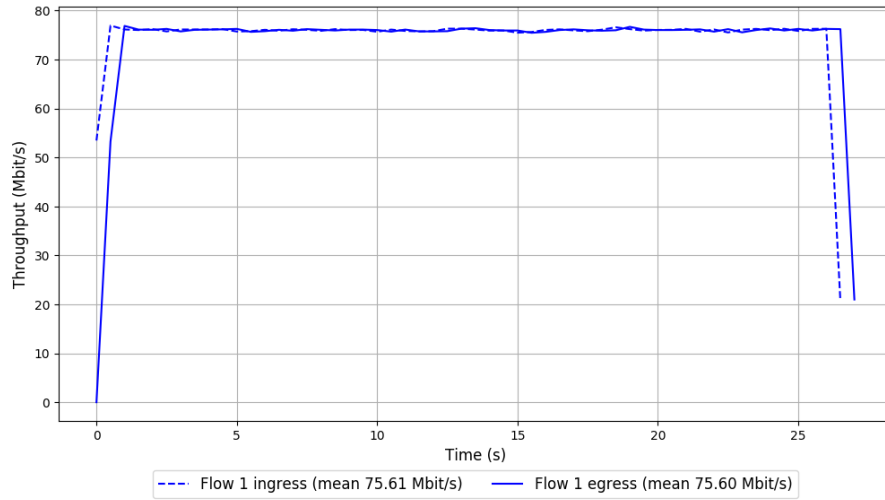
-- Flow 1:

Average throughput: 75.60 Mbit/s

95th percentile per-packet one-way delay: 4.747 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-12-11 03:07:08

End at: 2019-12-11 03:07:38

Local clock offset: -3.785 ms

Remote clock offset: 0.17 ms

# Below is generated by plot.py at 2019-12-11 05:00:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 82.19 Mbit/s

95th percentile per-packet one-way delay: 4.922 ms

Loss rate: 0.00%

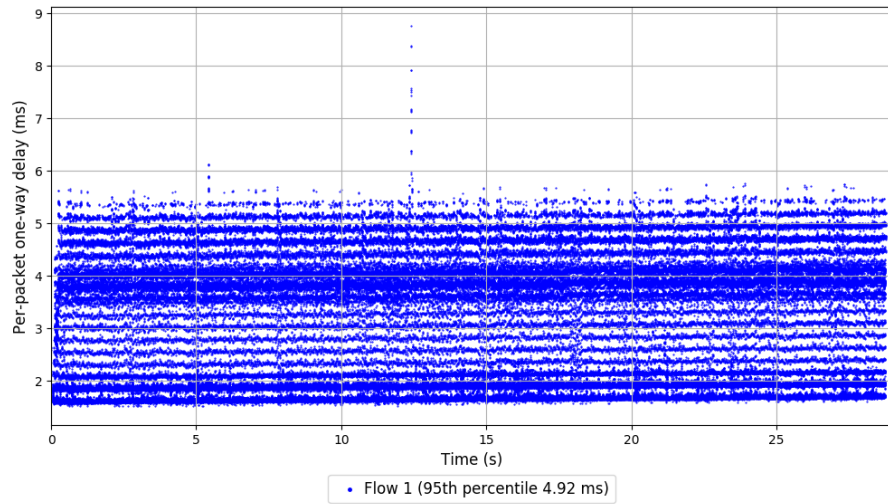
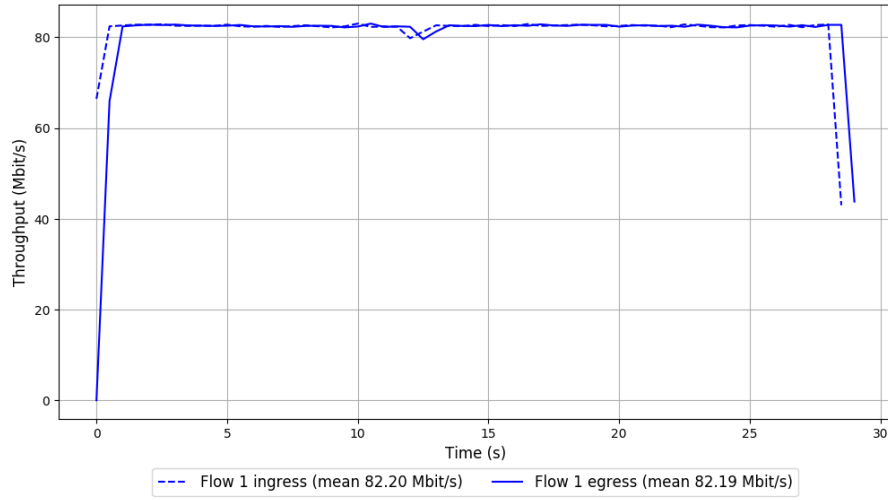
-- Flow 1:

Average throughput: 82.19 Mbit/s

95th percentile per-packet one-way delay: 4.922 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link





Run 3: Statistics of Indigo-MusesD

Start at: 2019-12-11 03:33:52

End at: 2019-12-11 03:34:22

Local clock offset: -0.944 ms

Remote clock offset: 0.342 ms

# Below is generated by plot.py at 2019-12-11 05:01:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.45 Mbit/s

95th percentile per-packet one-way delay: 5.299 ms

Loss rate: 0.00%

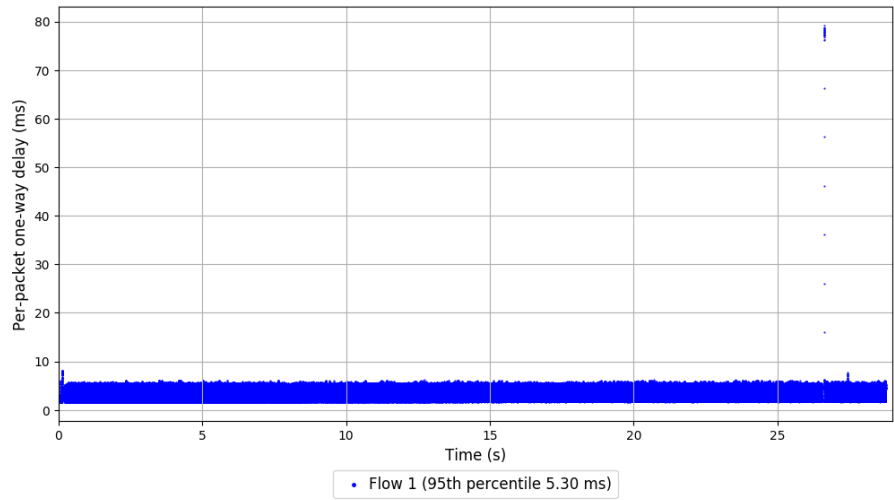
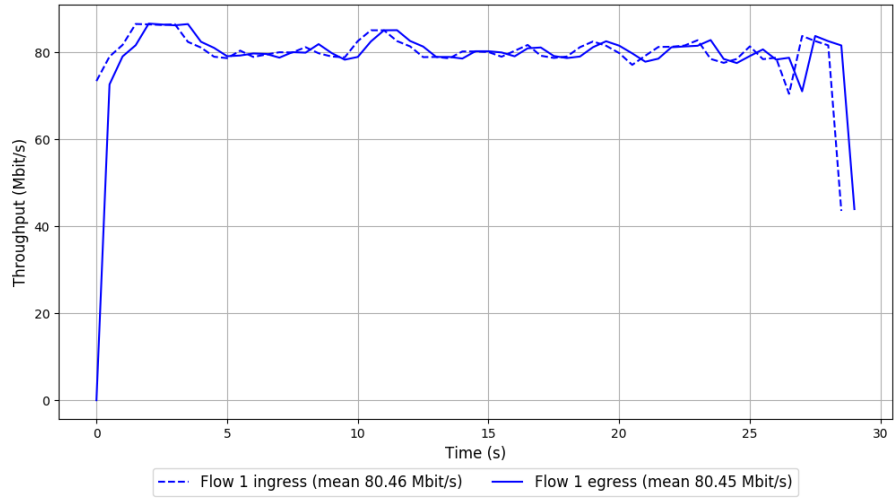
-- Flow 1:

Average throughput: 80.45 Mbit/s

95th percentile per-packet one-way delay: 5.299 ms

Loss rate: 0.00%

### Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-12-11 04:00:34

End at: 2019-12-11 04:01:05

Local clock offset: -2.358 ms

Remote clock offset: 0.481 ms

# Below is generated by plot.py at 2019-12-11 05:01:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.68 Mbit/s

95th percentile per-packet one-way delay: 4.629 ms

Loss rate: 0.00%

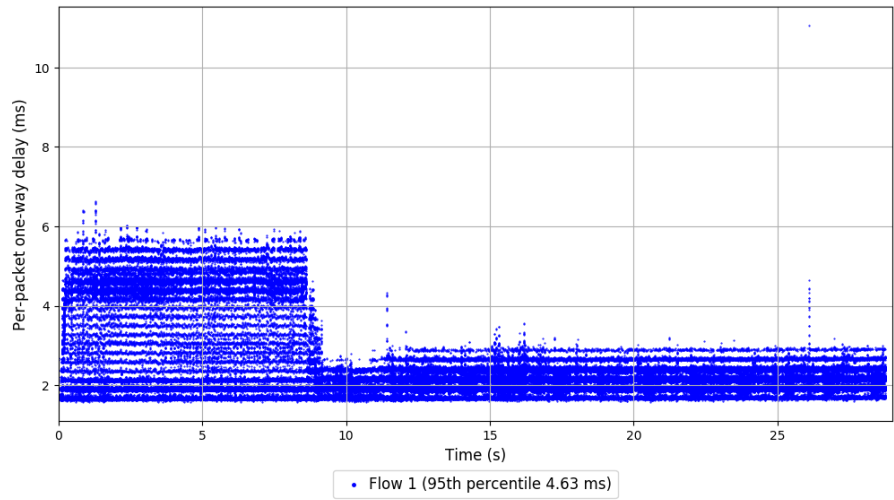
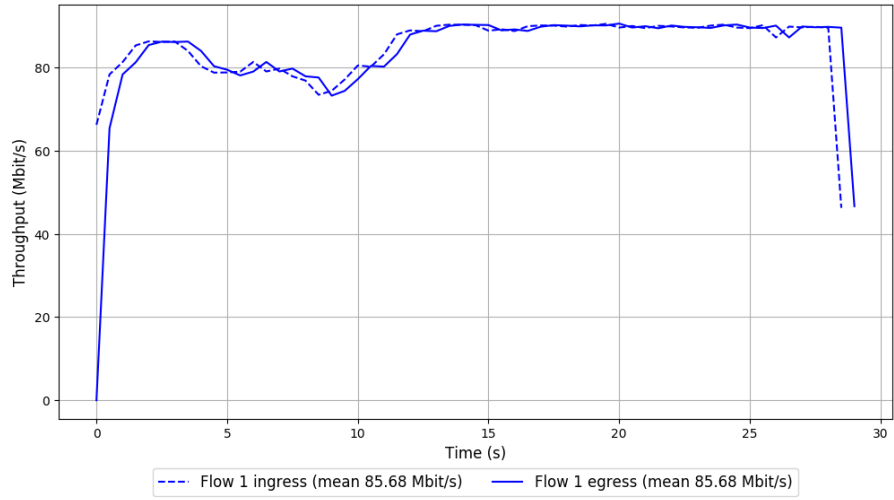
-- Flow 1:

Average throughput: 85.68 Mbit/s

95th percentile per-packet one-way delay: 4.629 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-12-11 04:27:17

End at: 2019-12-11 04:27:47

Local clock offset: -5.544 ms

Remote clock offset: 0.278 ms

# Below is generated by plot.py at 2019-12-11 05:01:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.04 Mbit/s

95th percentile per-packet one-way delay: 4.856 ms

Loss rate: 0.00%

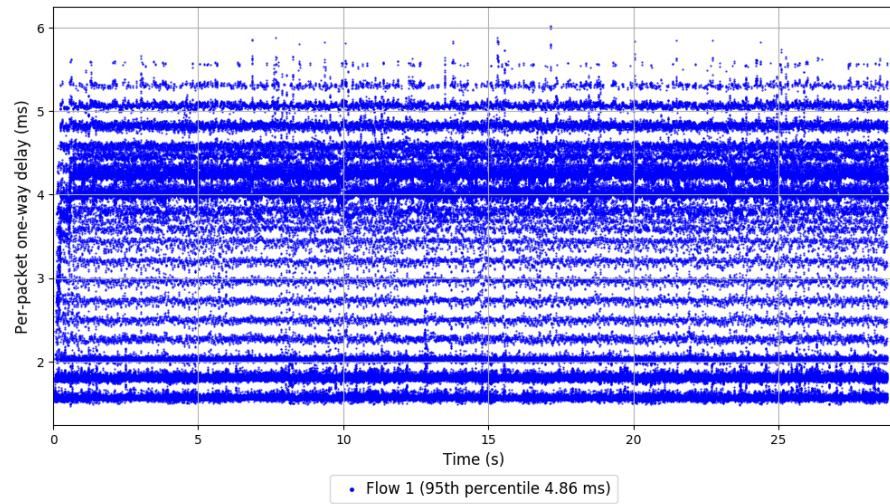
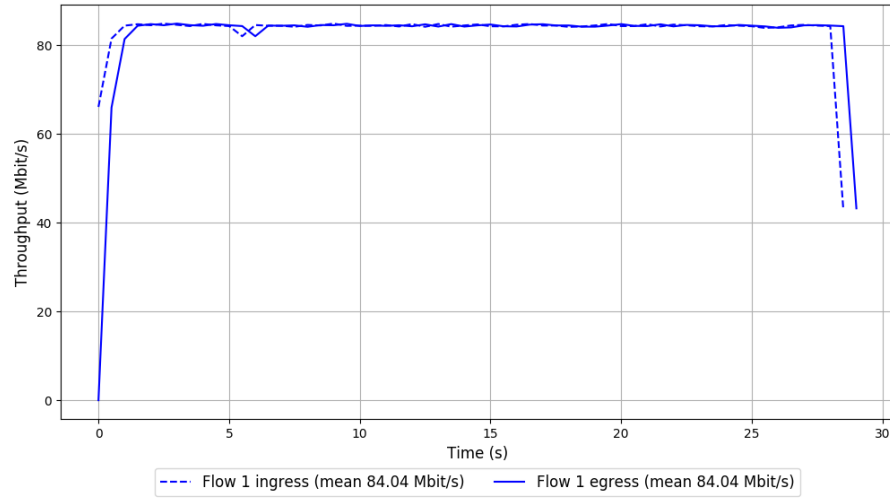
-- Flow 1:

Average throughput: 84.04 Mbit/s

95th percentile per-packet one-way delay: 4.856 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MuseST

Start at: 2019-12-11 02:57:14

End at: 2019-12-11 02:57:44

Local clock offset: -3.603 ms

Remote clock offset: 0.068 ms

# Below is generated by plot.py at 2019-12-11 05:01:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.66 Mbit/s

95th percentile per-packet one-way delay: 2.627 ms

Loss rate: 0.00%

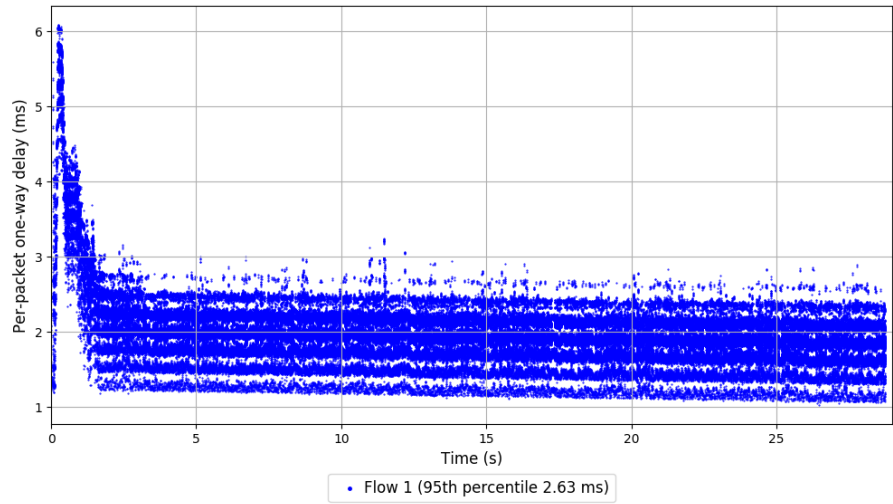
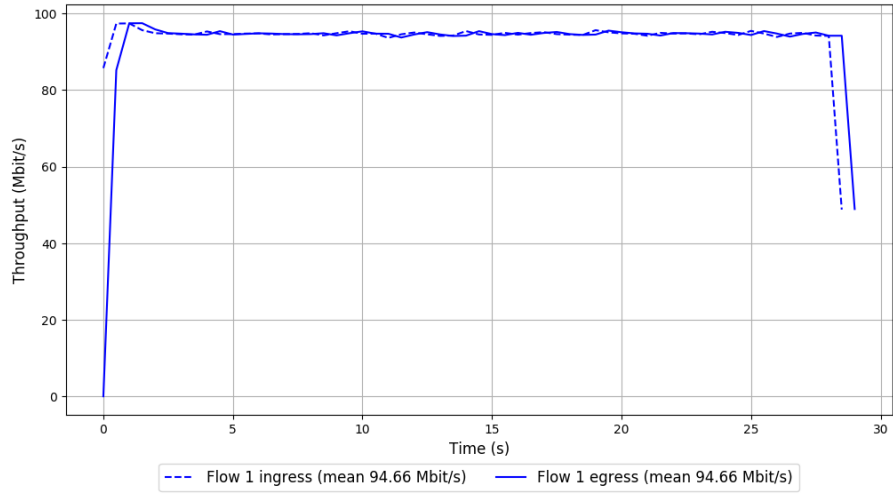
-- Flow 1:

Average throughput: 94.66 Mbit/s

95th percentile per-packet one-way delay: 2.627 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesT — Data Link





Run 2: Statistics of Indigo-MusesT

Start at: 2019-12-11 03:23:56

End at: 2019-12-11 03:24:26

Local clock offset: -2.133 ms

Remote clock offset: 0.162 ms

# Below is generated by plot.py at 2019-12-11 05:01:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.41 Mbit/s

95th percentile per-packet one-way delay: 2.381 ms

Loss rate: 0.00%

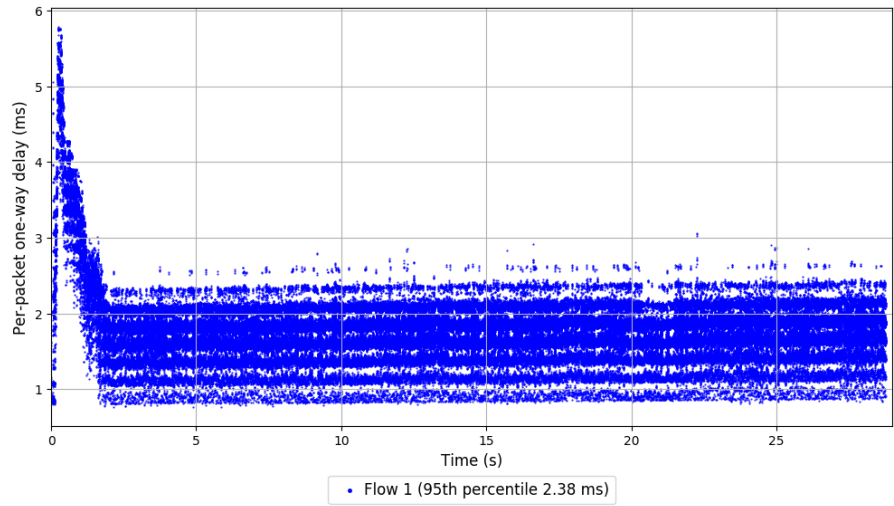
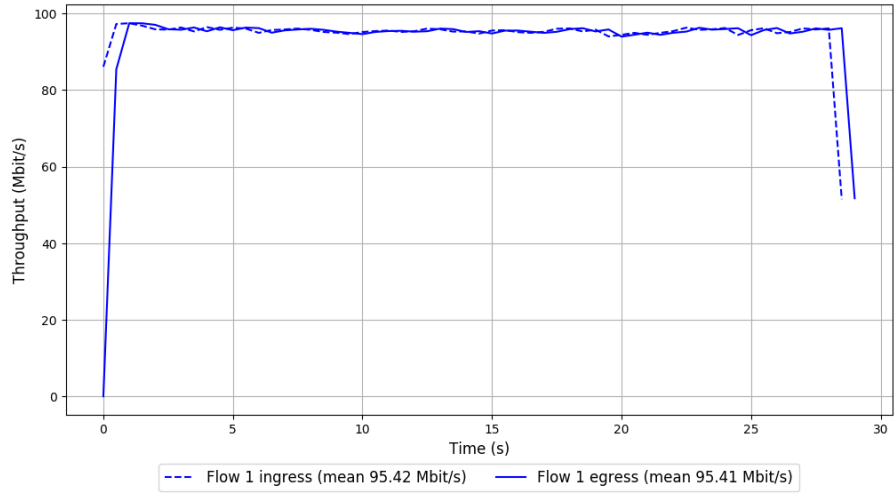
-- Flow 1:

Average throughput: 95.41 Mbit/s

95th percentile per-packet one-way delay: 2.381 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MuseST

Start at: 2019-12-11 03:50:39

End at: 2019-12-11 03:51:09

Local clock offset: -2.061 ms

Remote clock offset: 0.319 ms

# Below is generated by plot.py at 2019-12-11 05:01:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.37 Mbit/s

95th percentile per-packet one-way delay: 3.245 ms

Loss rate: 0.00%

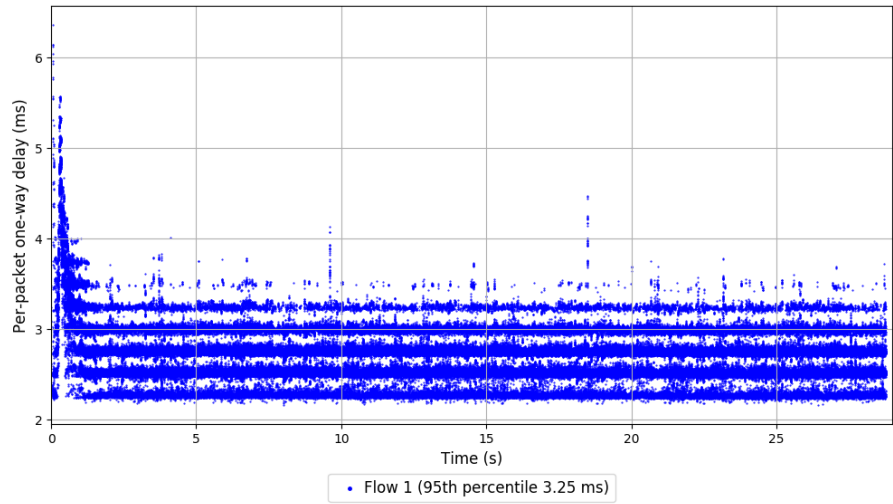
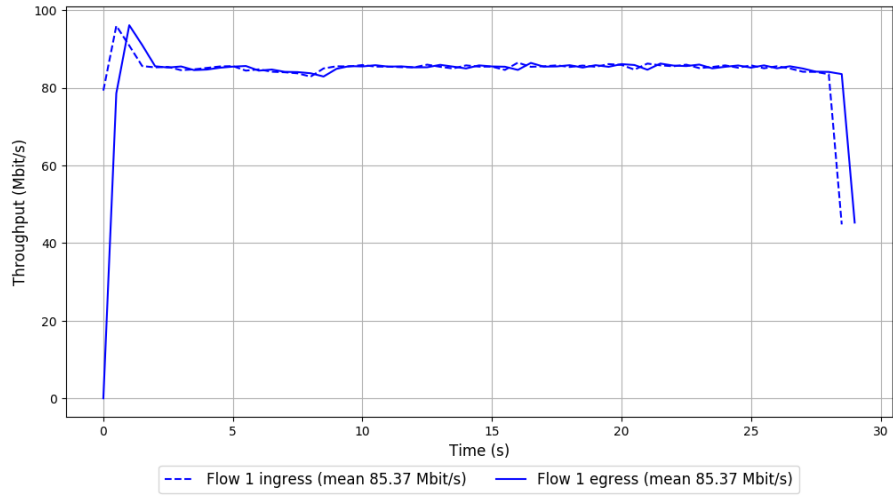
-- Flow 1:

Average throughput: 85.37 Mbit/s

95th percentile per-packet one-way delay: 3.245 ms

Loss rate: 0.00%

### Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MuseST

Start at: 2019-12-11 04:17:21

End at: 2019-12-11 04:17:51

Local clock offset: -3.994 ms

Remote clock offset: 0.347 ms

# Below is generated by plot.py at 2019-12-11 05:01:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.65 Mbit/s

95th percentile per-packet one-way delay: 3.227 ms

Loss rate: 0.00%

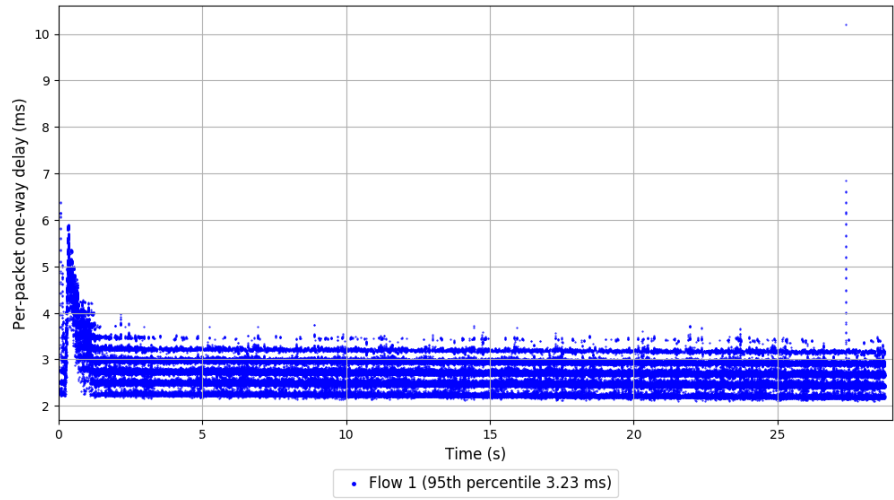
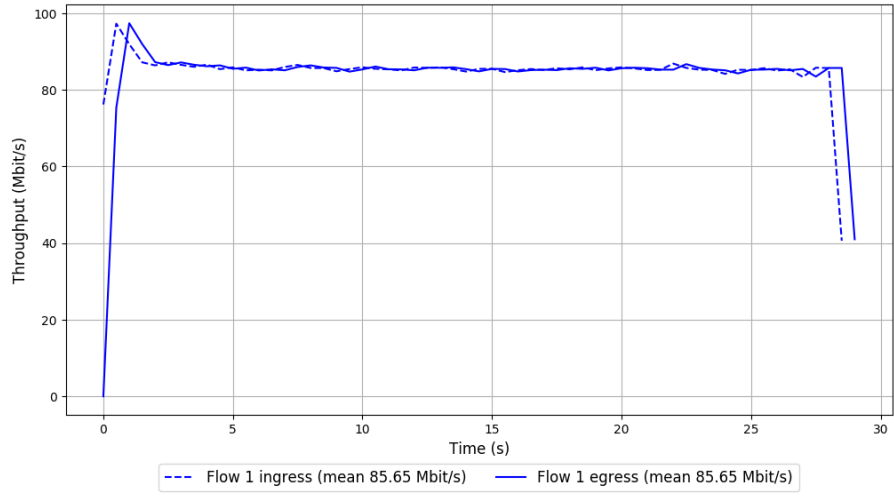
-- Flow 1:

Average throughput: 85.65 Mbit/s

95th percentile per-packet one-way delay: 3.227 ms

Loss rate: 0.00%

### Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MuseST

Start at: 2019-12-11 04:44:04

End at: 2019-12-11 04:44:34

Local clock offset: -6.005 ms

Remote clock offset: 0.217 ms

# Below is generated by plot.py at 2019-12-11 05:01:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.37 Mbit/s

95th percentile per-packet one-way delay: 3.997 ms

Loss rate: 0.00%

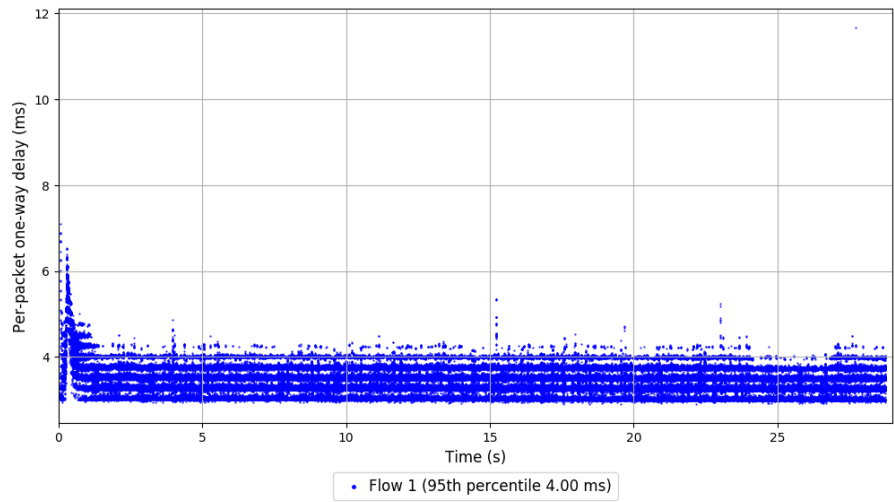
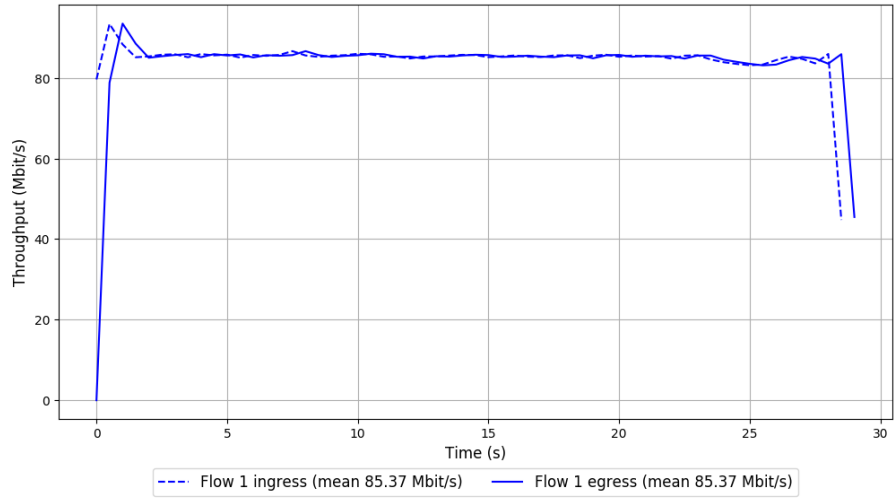
-- Flow 1:

Average throughput: 85.37 Mbit/s

95th percentile per-packet one-way delay: 3.997 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesT — Data Link





Run 1: Statistics of LEDBAT

Start at: 2019-12-11 02:47:06

End at: 2019-12-11 02:47:36

Local clock offset: -2.262 ms

Remote clock offset: 0.155 ms

# Below is generated by plot.py at 2019-12-11 05:02:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.23 Mbit/s

95th percentile per-packet one-way delay: 30.657 ms

Loss rate: 0.01%

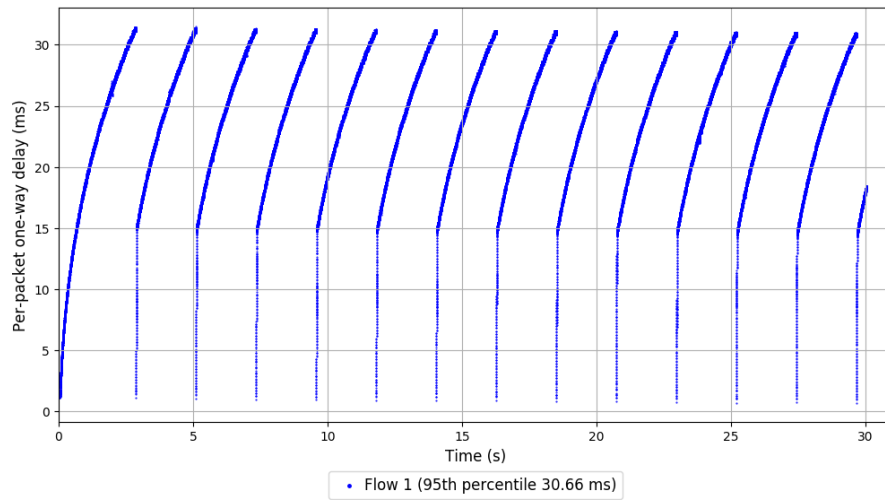
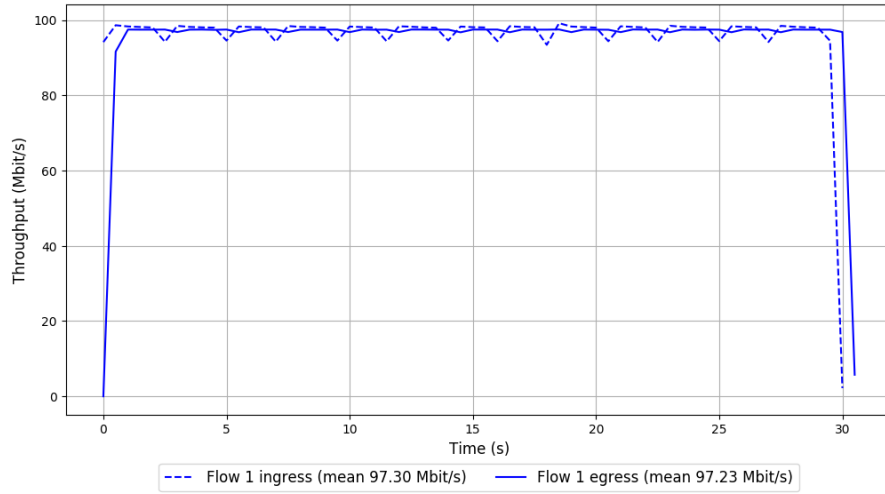
-- Flow 1:

Average throughput: 97.23 Mbit/s

95th percentile per-packet one-way delay: 30.657 ms

Loss rate: 0.01%

### Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-12-11 03:13:47

End at: 2019-12-11 03:14:17

Local clock offset: -3.171 ms

Remote clock offset: 0.193 ms

# Below is generated by plot.py at 2019-12-11 05:02:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.09 Mbit/s

95th percentile per-packet one-way delay: 32.107 ms

Loss rate: 0.01%

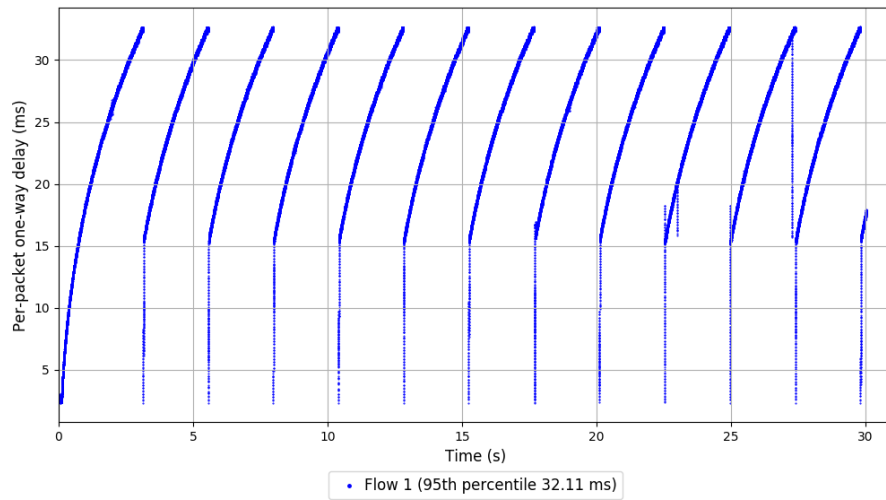
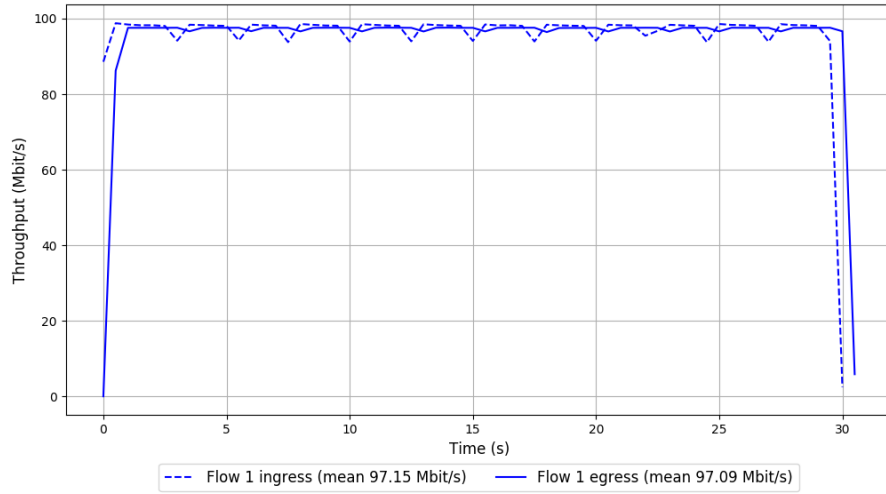
-- Flow 1:

Average throughput: 97.09 Mbit/s

95th percentile per-packet one-way delay: 32.107 ms

Loss rate: 0.01%

## Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-12-11 03:40:31

End at: 2019-12-11 03:41:01

Local clock offset: -0.919 ms

Remote clock offset: 0.323 ms

# Below is generated by plot.py at 2019-12-11 05:02:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.23 Mbit/s

95th percentile per-packet one-way delay: 31.083 ms

Loss rate: 0.01%

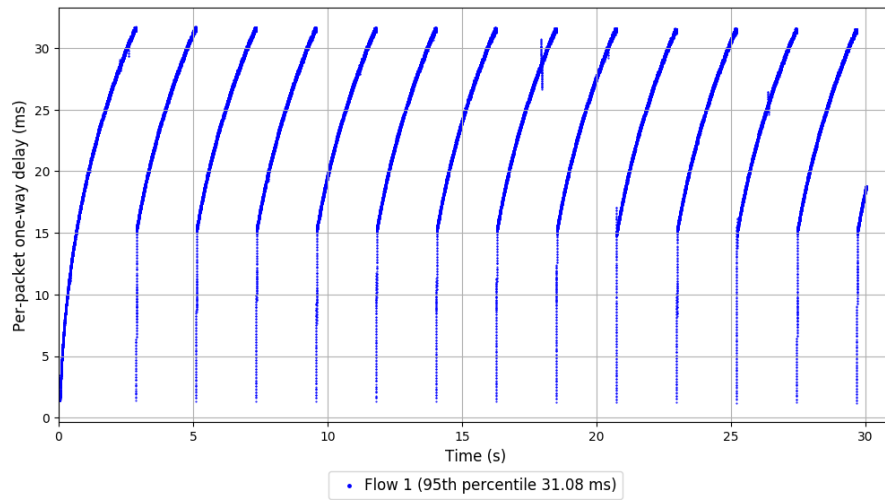
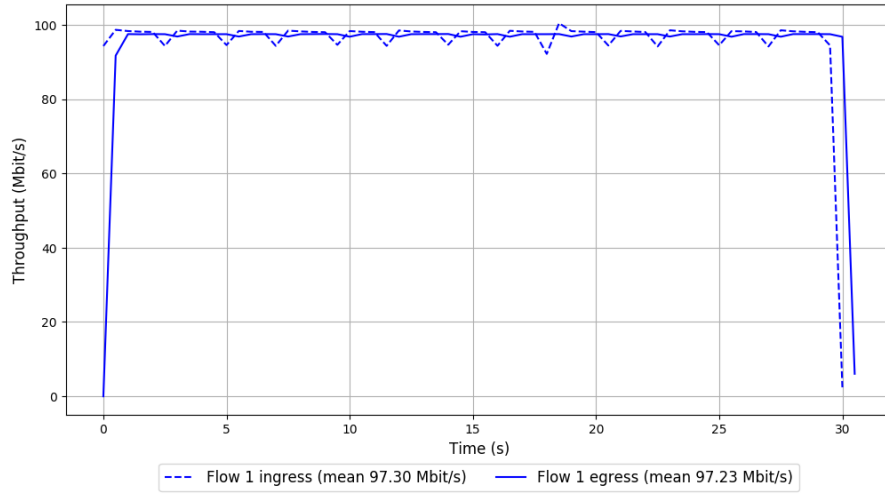
-- Flow 1:

Average throughput: 97.23 Mbit/s

95th percentile per-packet one-way delay: 31.083 ms

Loss rate: 0.01%

### Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-12-11 04:07:13

End at: 2019-12-11 04:07:43

Local clock offset: -1.652 ms

Remote clock offset: 0.457 ms

# Below is generated by plot.py at 2019-12-11 05:02:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.24 Mbit/s

95th percentile per-packet one-way delay: 31.447 ms

Loss rate: 0.01%

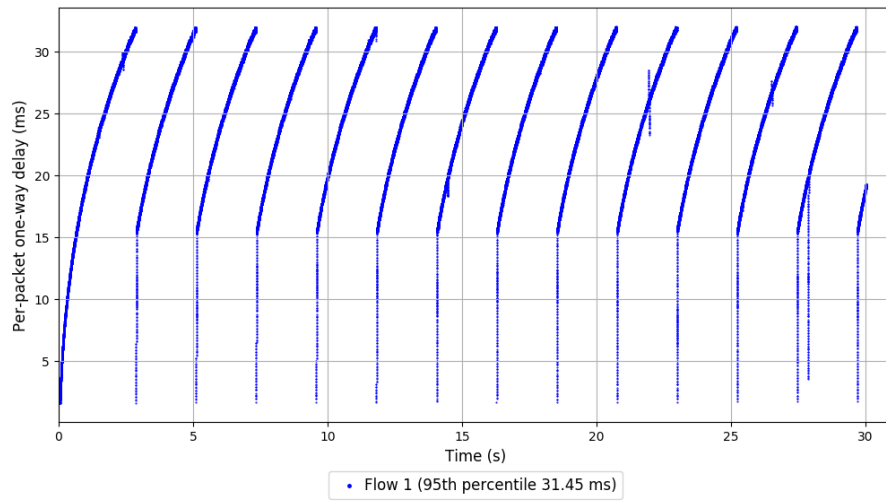
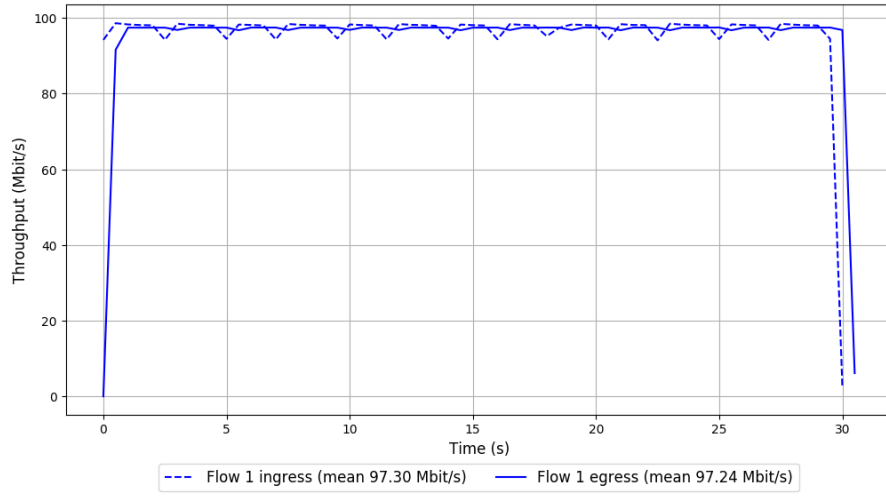
-- Flow 1:

Average throughput: 97.24 Mbit/s

95th percentile per-packet one-way delay: 31.447 ms

Loss rate: 0.01%

#### Run 4: Report of LEDBAT — Data Link





Run 5: Statistics of LEDBAT

Start at: 2019-12-11 04:33:56

End at: 2019-12-11 04:34:26

Local clock offset: -4.784 ms

Remote clock offset: 0.175 ms

# Below is generated by plot.py at 2019-12-11 05:02:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.17 Mbit/s

95th percentile per-packet one-way delay: 30.551 ms

Loss rate: 0.01%

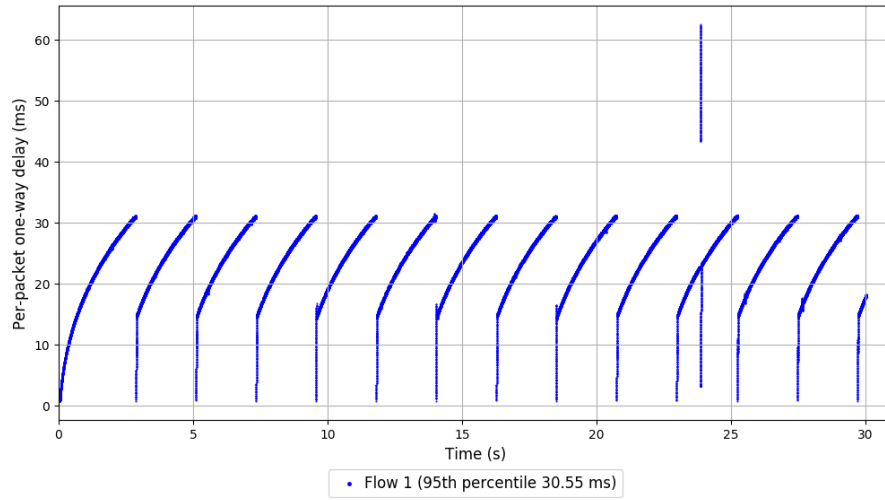
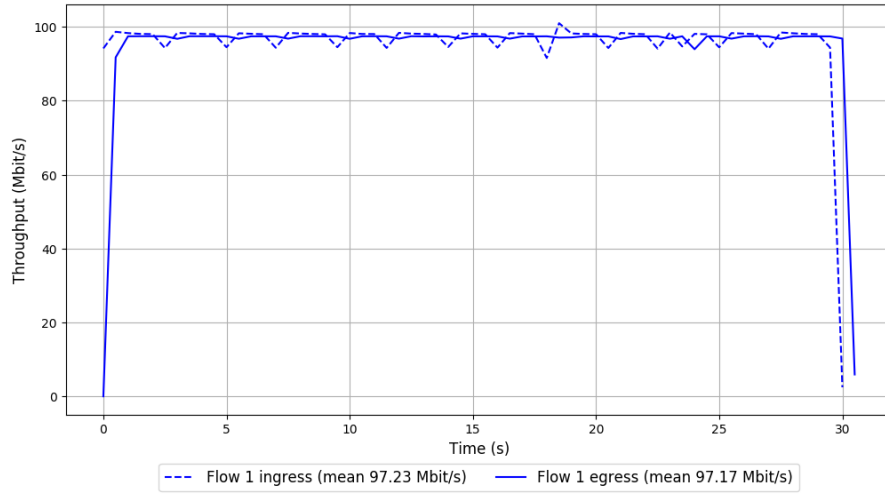
-- Flow 1:

Average throughput: 97.17 Mbit/s

95th percentile per-packet one-way delay: 30.551 ms

Loss rate: 0.01%

### Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-12-11 02:42:40

End at: 2019-12-11 02:43:10

Local clock offset: -4.422 ms

Remote clock offset: 0.092 ms

# Below is generated by plot.py at 2019-12-11 05:02:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 8.73 Mbit/s

95th percentile per-packet one-way delay: 1.650 ms

Loss rate: 0.00%

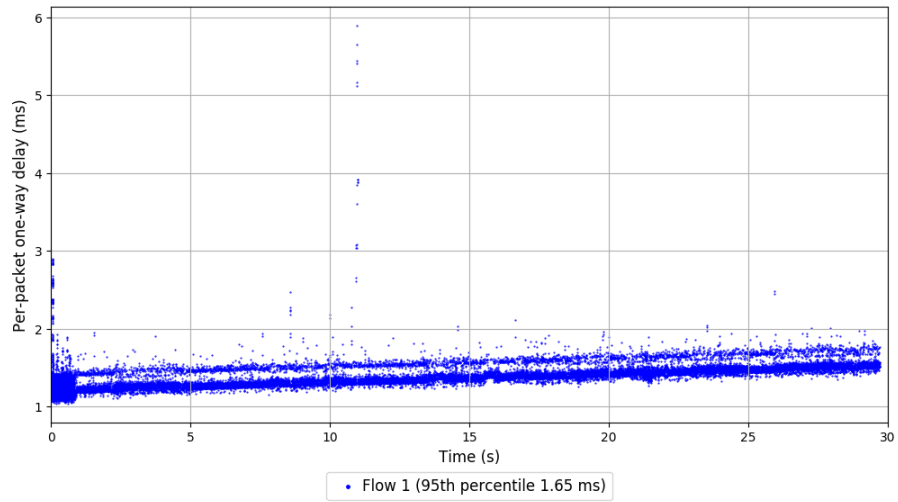
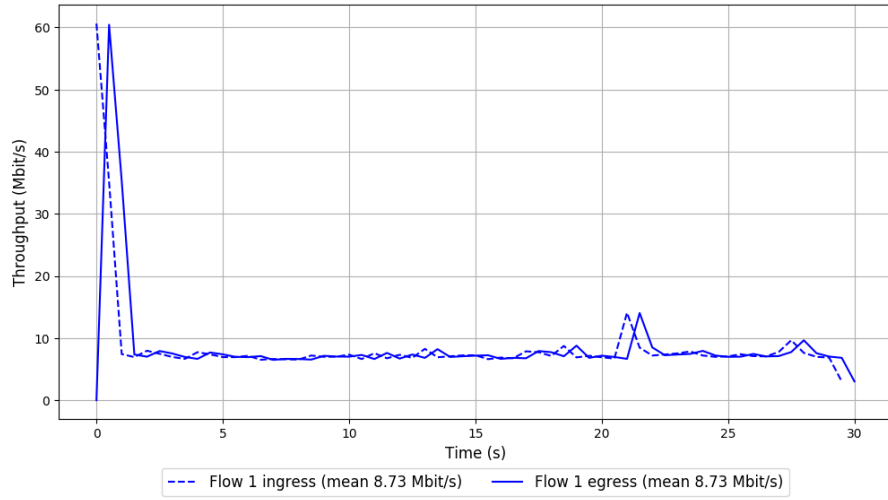
-- Flow 1:

Average throughput: 8.73 Mbit/s

95th percentile per-packet one-way delay: 1.650 ms

Loss rate: 0.00%

Run 1: Report of Muses\_DecisionTree — Data Link



Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-12-11 03:09:21

End at: 2019-12-11 03:09:51

Local clock offset: -3.716 ms

Remote clock offset: 0.155 ms

# Below is generated by plot.py at 2019-12-11 05:02:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.29 Mbit/s

95th percentile per-packet one-way delay: 3.339 ms

Loss rate: 0.00%

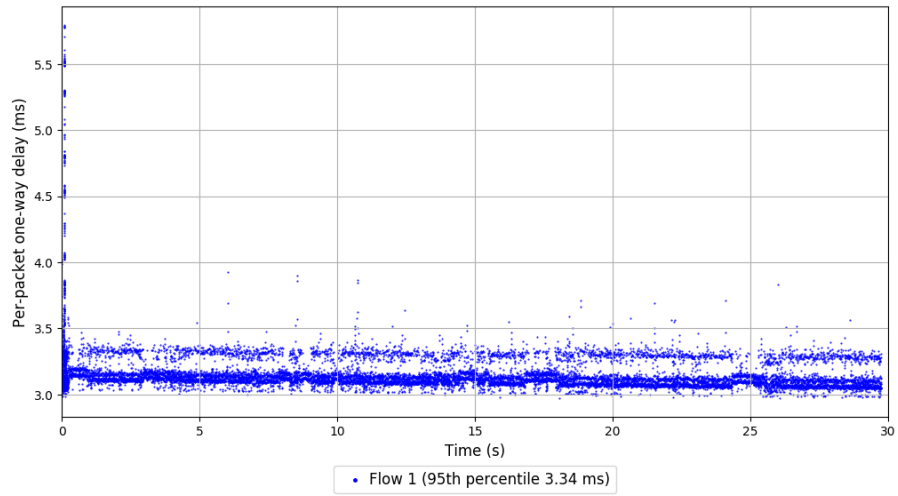
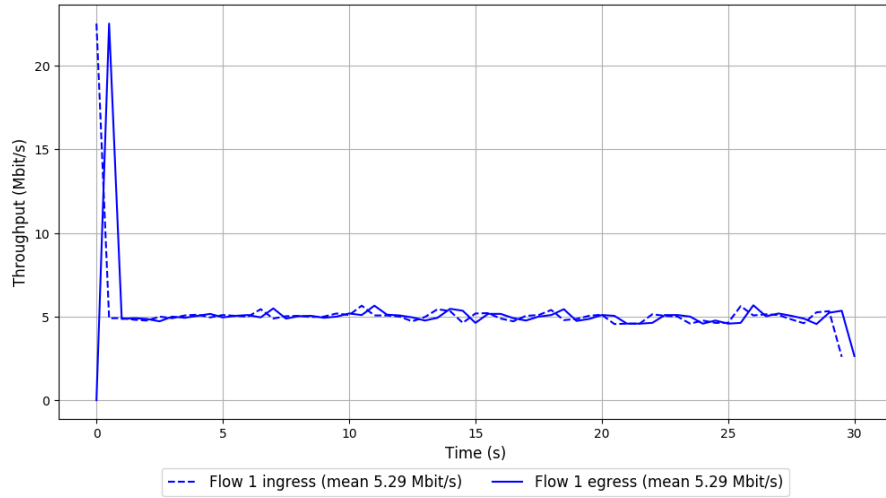
-- Flow 1:

Average throughput: 5.29 Mbit/s

95th percentile per-packet one-way delay: 3.339 ms

Loss rate: 0.00%

Run 2: Report of Muses\_DecisionTree — Data Link



Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-12-11 03:36:05

End at: 2019-12-11 03:36:35

Local clock offset: -0.444 ms

Remote clock offset: 0.33 ms

# Below is generated by plot.py at 2019-12-11 05:02:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 9.88 Mbit/s

95th percentile per-packet one-way delay: 1.943 ms

Loss rate: 0.00%

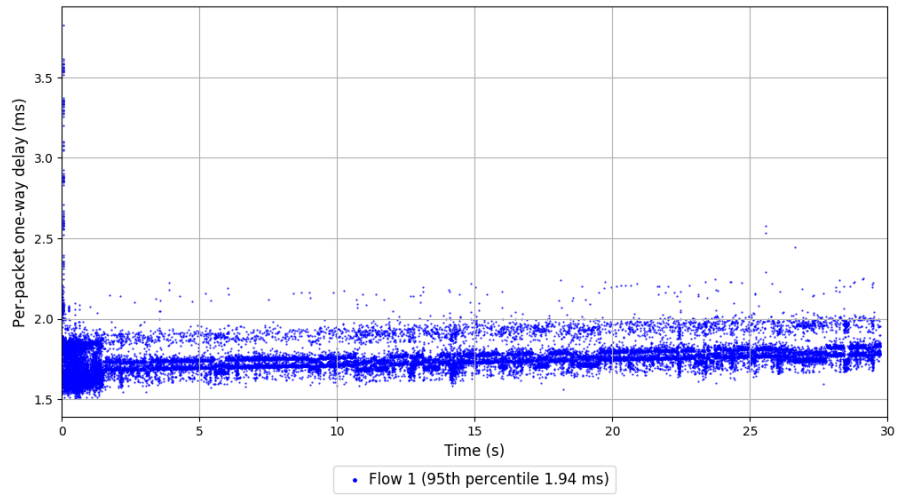
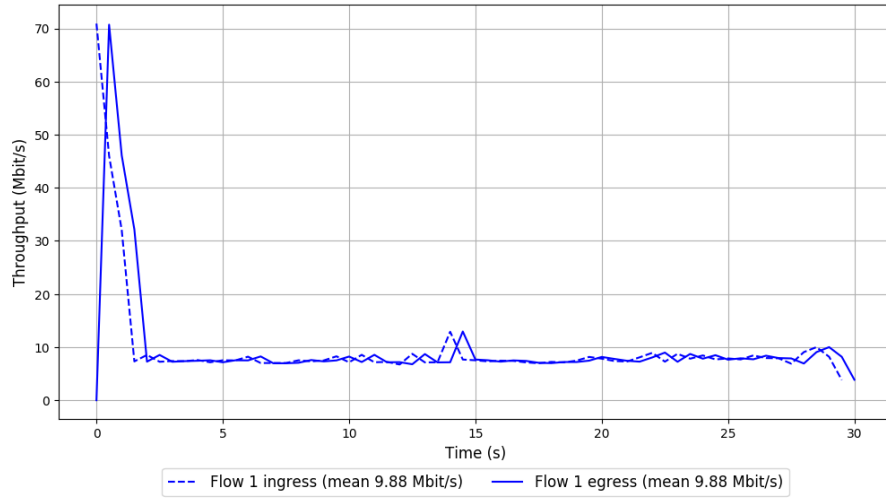
-- Flow 1:

Average throughput: 9.88 Mbit/s

95th percentile per-packet one-way delay: 1.943 ms

Loss rate: 0.00%

Run 3: Report of Muses\_DecisionTree — Data Link





Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-12-11 04:02:47

End at: 2019-12-11 04:03:17

Local clock offset: -1.457 ms

Remote clock offset: 0.383 ms

# Below is generated by plot.py at 2019-12-11 05:02:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.18 Mbit/s

95th percentile per-packet one-way delay: 2.686 ms

Loss rate: 0.00%

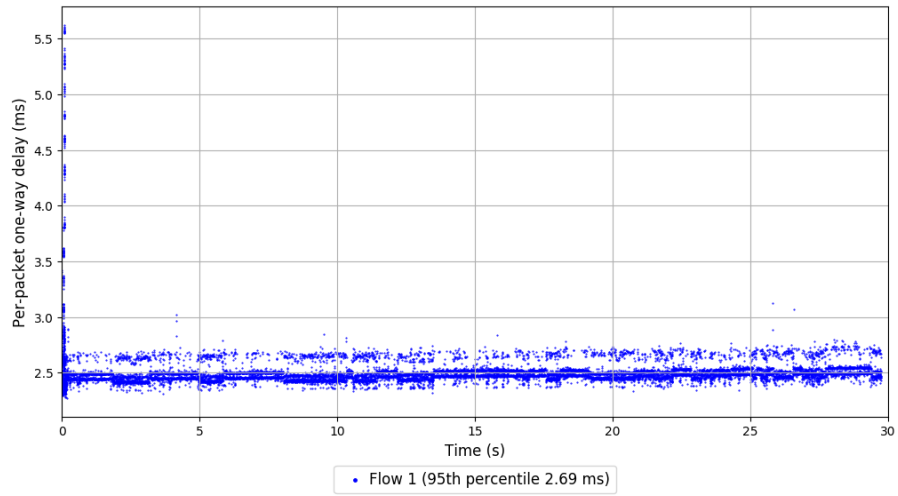
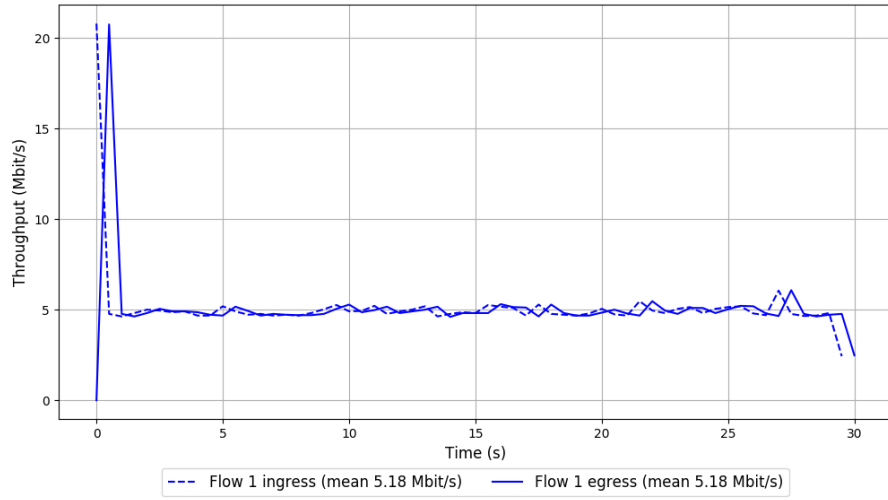
-- Flow 1:

Average throughput: 5.18 Mbit/s

95th percentile per-packet one-way delay: 2.686 ms

Loss rate: 0.00%

Run 4: Report of Muses\_DecisionTree — Data Link



Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-12-11 04:29:30

End at: 2019-12-11 04:30:00

Local clock offset: -4.861 ms

Remote clock offset: 0.312 ms

# Below is generated by plot.py at 2019-12-11 05:02:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 9.27 Mbit/s

95th percentile per-packet one-way delay: 1.191 ms

Loss rate: 0.00%

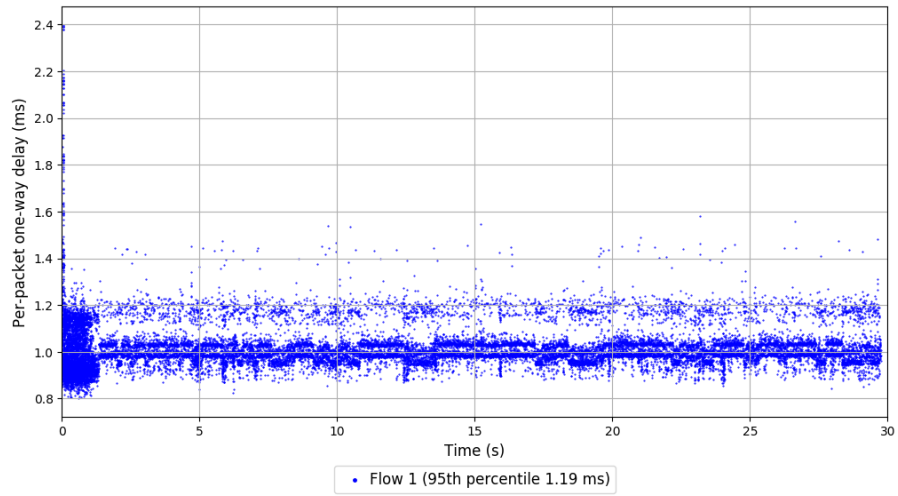
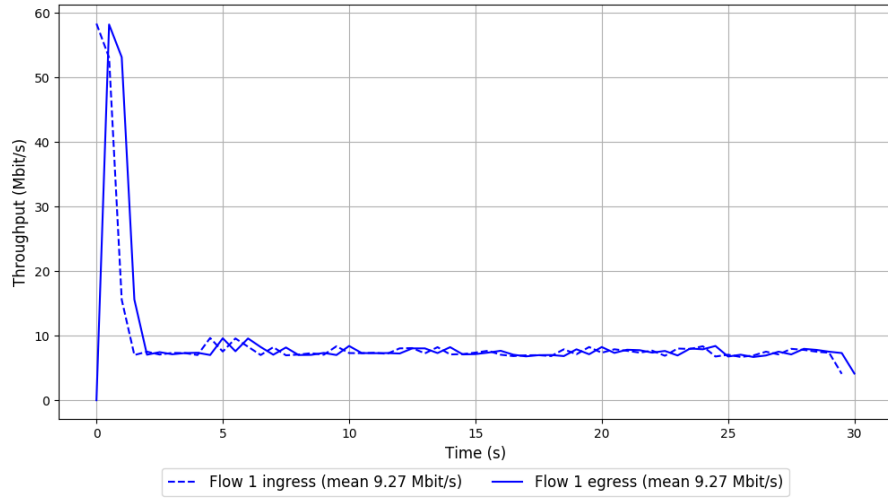
-- Flow 1:

Average throughput: 9.27 Mbit/s

95th percentile per-packet one-way delay: 1.191 ms

Loss rate: 0.00%

Run 5: Report of Muses\_DecisionTree — Data Link



Run 1: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-12-11 02:53:53

End at: 2019-12-11 02:54:23

Local clock offset: -3.33 ms

Remote clock offset: 0.112 ms

# Below is generated by plot.py at 2019-12-11 05:02:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 15.70 Mbit/s

95th percentile per-packet one-way delay: 2.048 ms

Loss rate: 0.00%

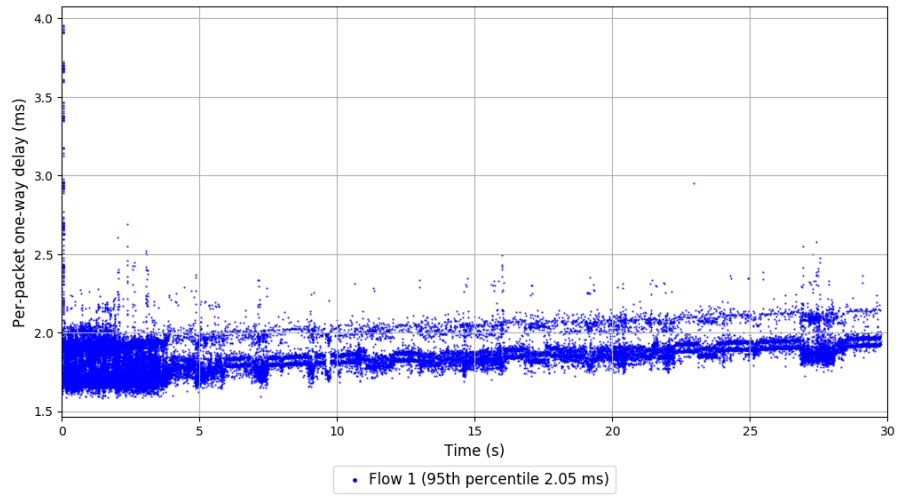
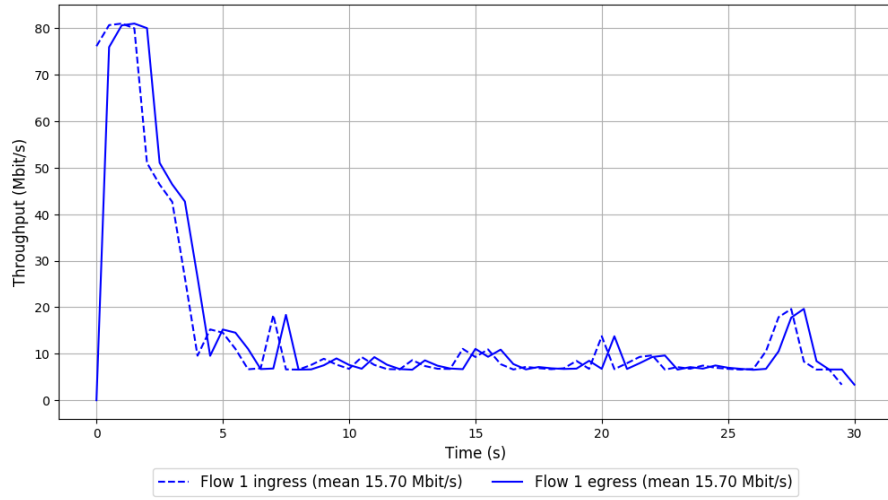
-- Flow 1:

Average throughput: 15.70 Mbit/s

95th percentile per-packet one-way delay: 2.048 ms

Loss rate: 0.00%

Run 1: Report of Muses\_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-12-11 03:20:34

End at: 2019-12-11 03:21:04

Local clock offset: -3.335 ms

Remote clock offset: 0.272 ms

# Below is generated by plot.py at 2019-12-11 05:02:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.02 Mbit/s

95th percentile per-packet one-way delay: 3.488 ms

Loss rate: 0.00%

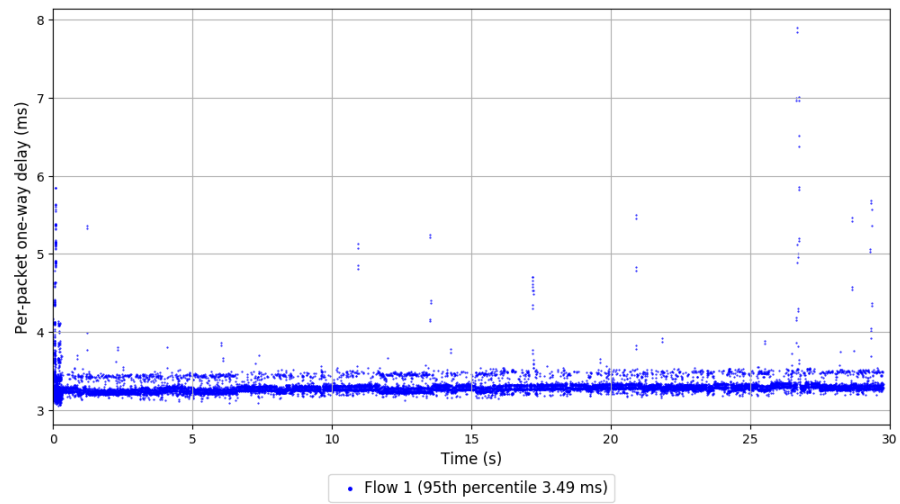
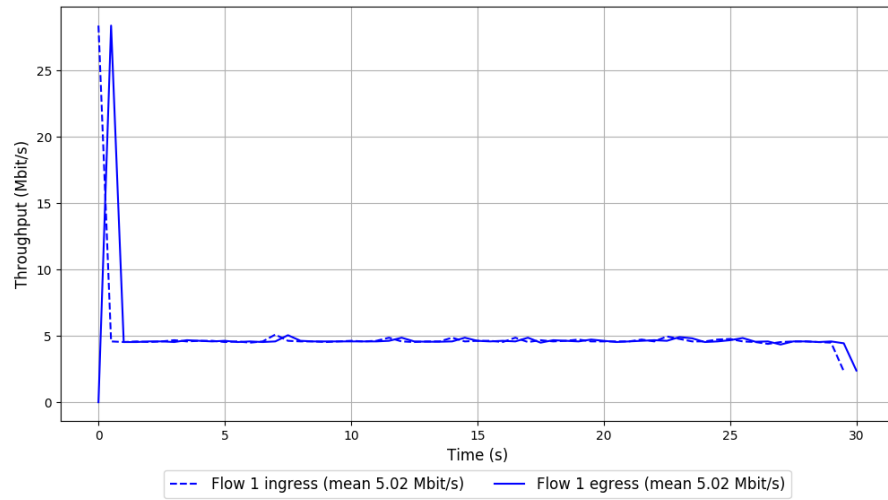
-- Flow 1:

Average throughput: 5.02 Mbit/s

95th percentile per-packet one-way delay: 3.488 ms

Loss rate: 0.00%

Run 2: Report of Muses\_DecisionTreeH0 — Data Link





Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-12-11 03:47:17

End at: 2019-12-11 03:47:47

Local clock offset: -2.599 ms

Remote clock offset: 0.277 ms

# Below is generated by plot.py at 2019-12-11 05:02:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.19 Mbit/s

95th percentile per-packet one-way delay: 3.230 ms

Loss rate: 0.00%

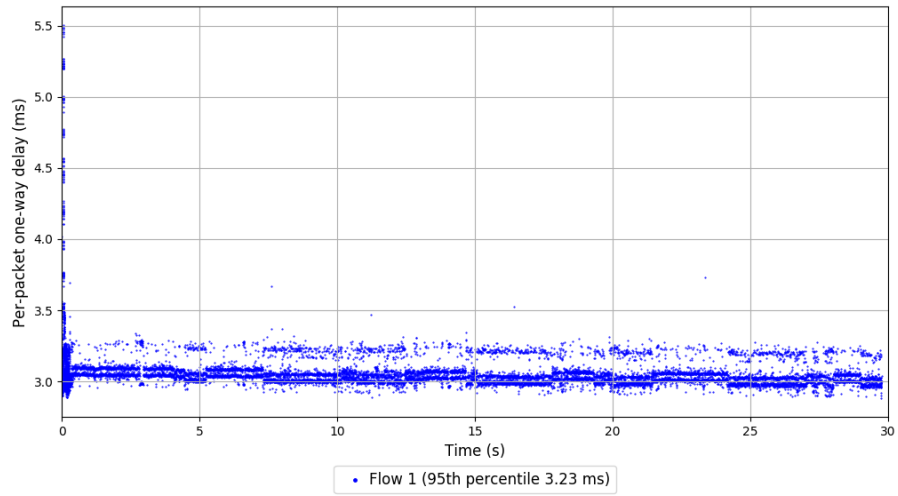
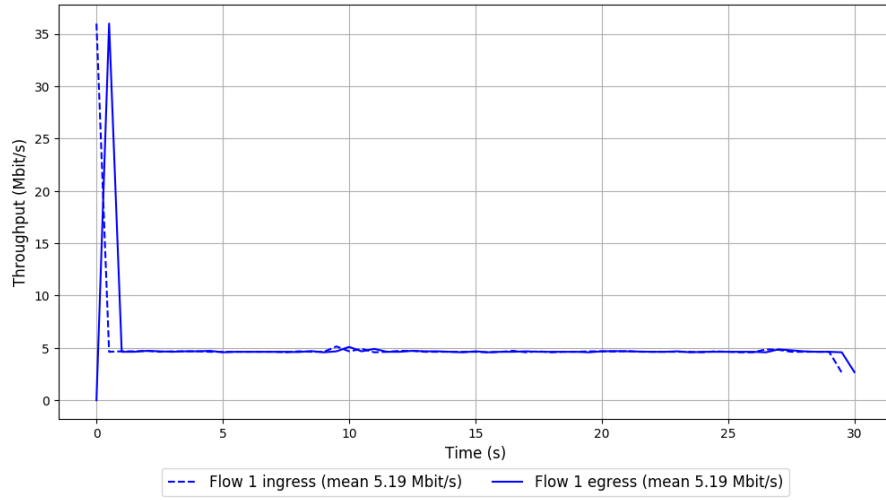
-- Flow 1:

Average throughput: 5.19 Mbit/s

95th percentile per-packet one-way delay: 3.230 ms

Loss rate: 0.00%

Run 3: Report of Muses\_DecisionTreeH0 — Data Link



Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-12-11 04:13:59

End at: 2019-12-11 04:14:29

Local clock offset: -3.897 ms

Remote clock offset: 0.437 ms

# Below is generated by plot.py at 2019-12-11 05:02:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 9.74 Mbit/s

95th percentile per-packet one-way delay: 1.753 ms

Loss rate: 0.00%

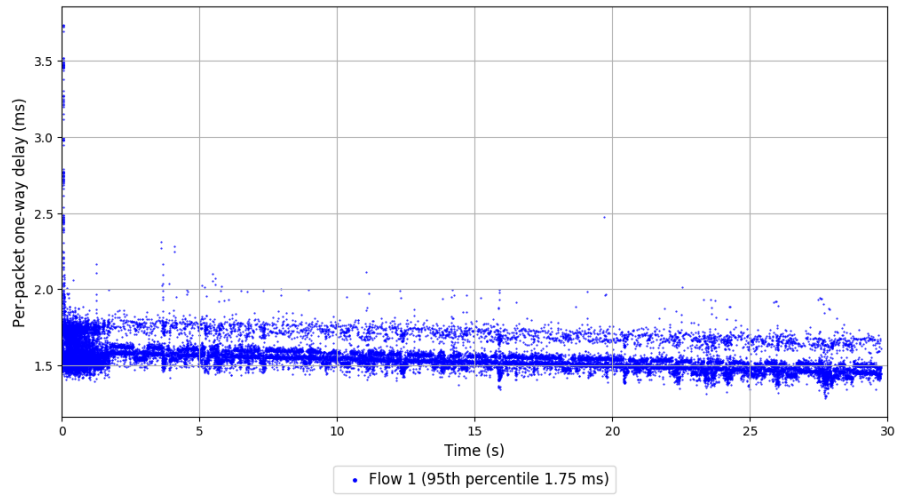
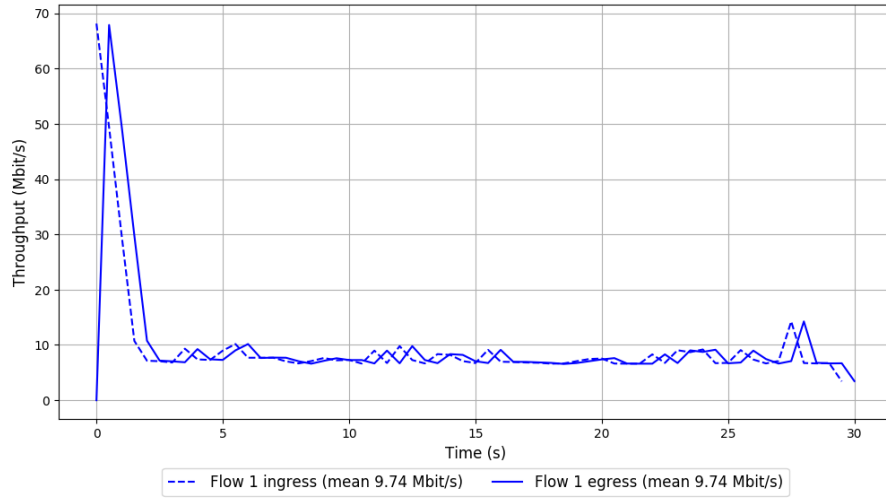
-- Flow 1:

Average throughput: 9.74 Mbit/s

95th percentile per-packet one-way delay: 1.753 ms

Loss rate: 0.00%

Run 4: Report of Muses\_DecisionTreeH0 — Data Link



Run 5: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-12-11 04:40:42

End at: 2019-12-11 04:41:12

Local clock offset: -4.966 ms

Remote clock offset: 0.223 ms

# Below is generated by plot.py at 2019-12-11 05:02:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 4.96 Mbit/s

95th percentile per-packet one-way delay: 2.582 ms

Loss rate: 0.00%

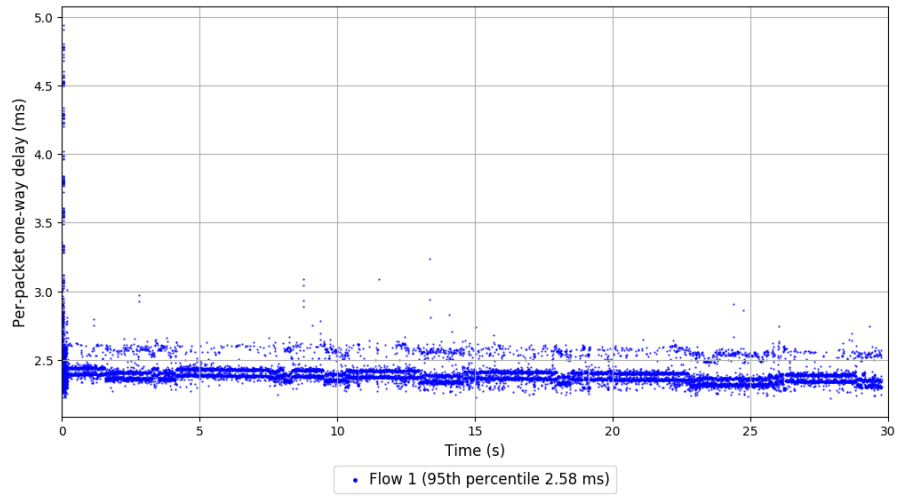
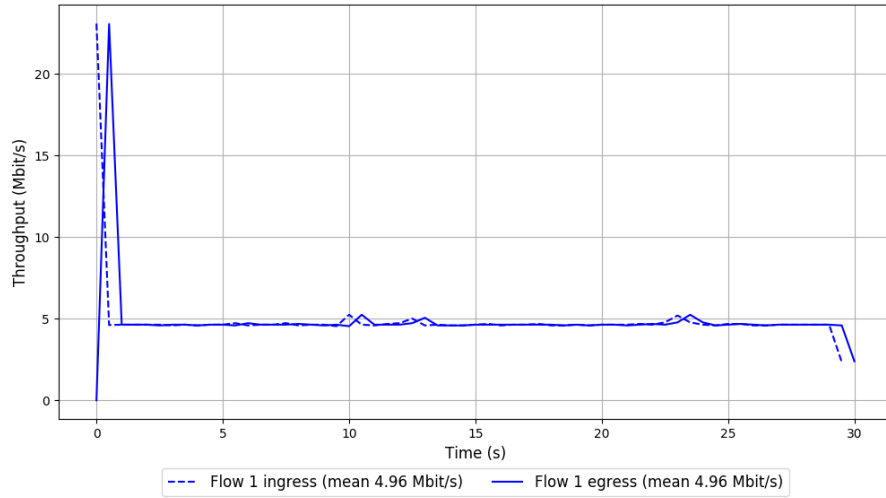
-- Flow 1:

Average throughput: 4.96 Mbit/s

95th percentile per-packet one-way delay: 2.582 ms

Loss rate: 0.00%

Run 5: Report of Muses\_DecisionTreeH0 — Data Link



Run 1: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-12-11 03:06:04

End at: 2019-12-11 03:06:34

Local clock offset: -3.286 ms

Remote clock offset: 0.176 ms

# Below is generated by plot.py at 2019-12-11 05:02:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.81 Mbit/s

95th percentile per-packet one-way delay: 2.769 ms

Loss rate: 0.00%

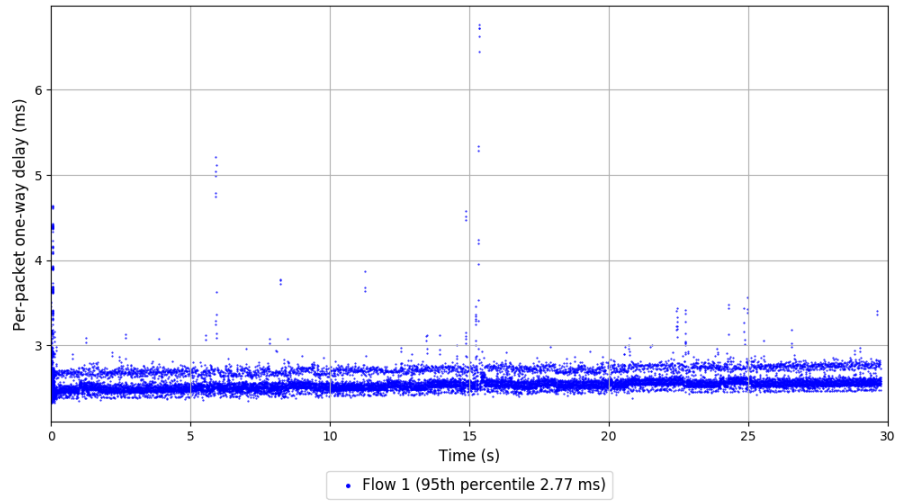
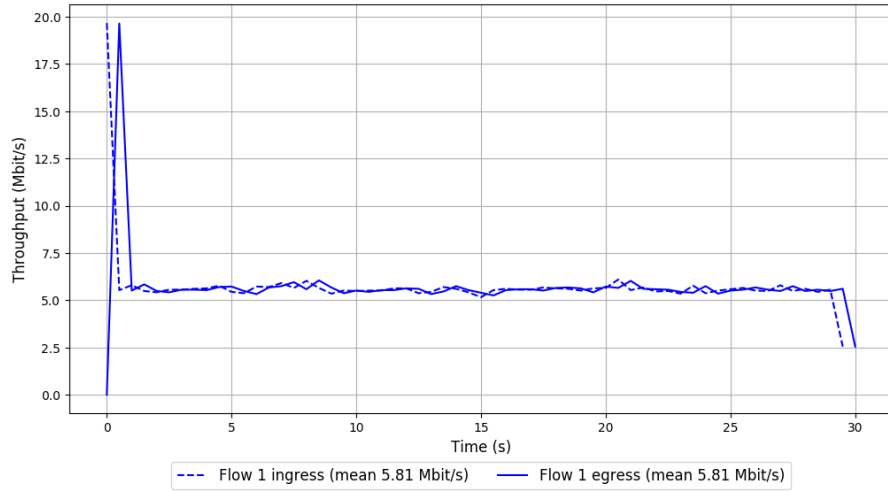
-- Flow 1:

Average throughput: 5.81 Mbit/s

95th percentile per-packet one-way delay: 2.769 ms

Loss rate: 0.00%

Run 1: Report of Muses\_DecisionTreeR0 — Data Link





Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-12-11 03:32:47

End at: 2019-12-11 03:33:17

Local clock offset: -1.139 ms

Remote clock offset: 0.34 ms

# Below is generated by plot.py at 2019-12-11 05:02:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.08 Mbit/s

95th percentile per-packet one-way delay: 1.977 ms

Loss rate: 0.00%

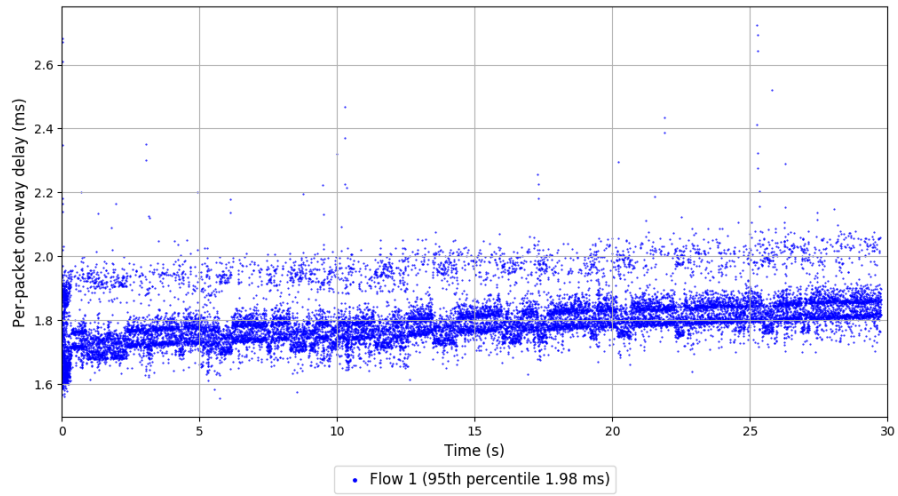
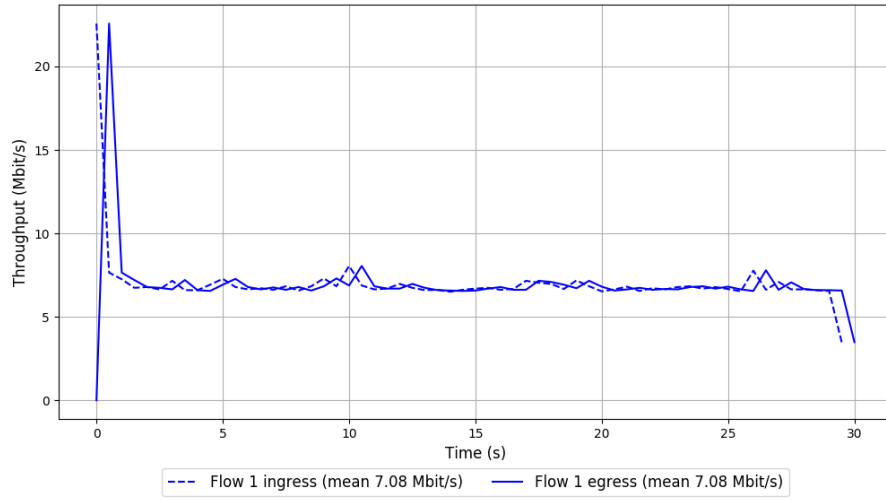
-- Flow 1:

Average throughput: 7.08 Mbit/s

95th percentile per-packet one-way delay: 1.977 ms

Loss rate: 0.00%

Run 2: Report of Muses\_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-12-11 03:59:30

End at: 2019-12-11 04:00:00

Local clock offset: -2.451 ms

Remote clock offset: 0.455 ms

# Below is generated by plot.py at 2019-12-11 05:02:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.97 Mbit/s

95th percentile per-packet one-way delay: 3.434 ms

Loss rate: 0.00%

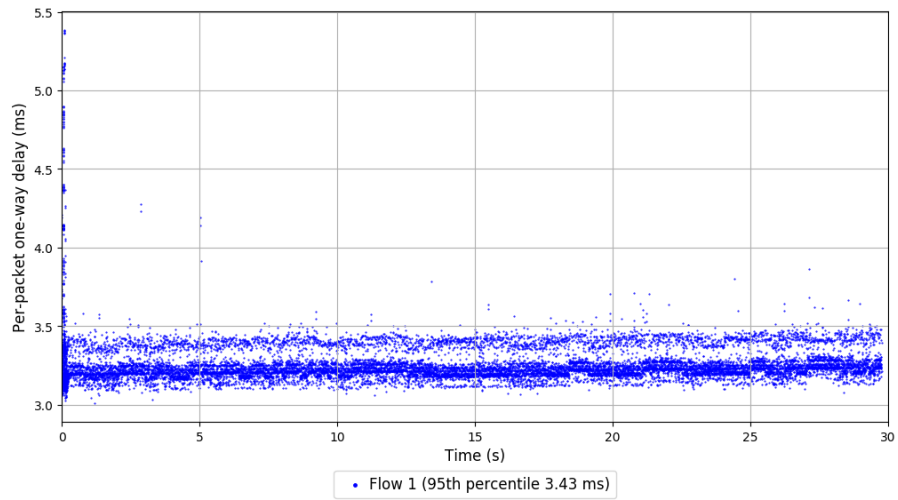
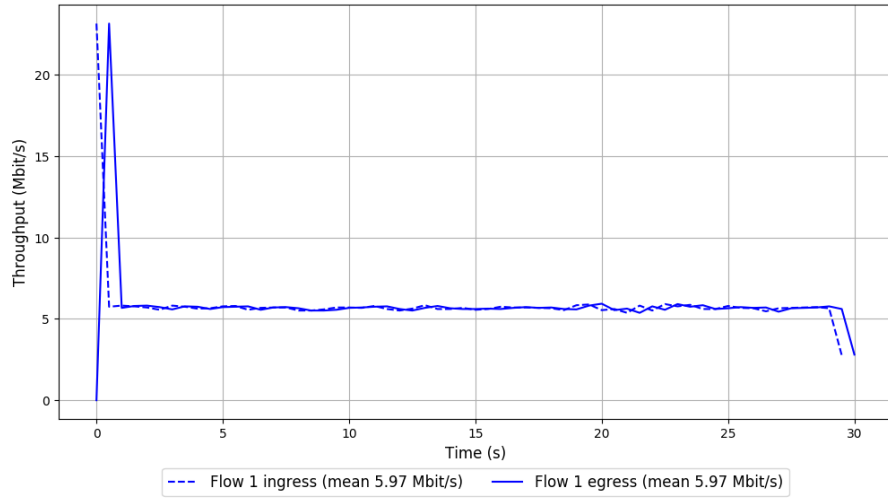
-- Flow 1:

Average throughput: 5.97 Mbit/s

95th percentile per-packet one-way delay: 3.434 ms

Loss rate: 0.00%

Run 3: Report of Muses\_DecisionTreeR0 — Data Link



Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-12-11 04:26:12

End at: 2019-12-11 04:26:42

Local clock offset: -5.51 ms

Remote clock offset: 0.252 ms

# Below is generated by plot.py at 2019-12-11 05:02:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.92 Mbit/s

95th percentile per-packet one-way delay: 3.296 ms

Loss rate: 0.00%

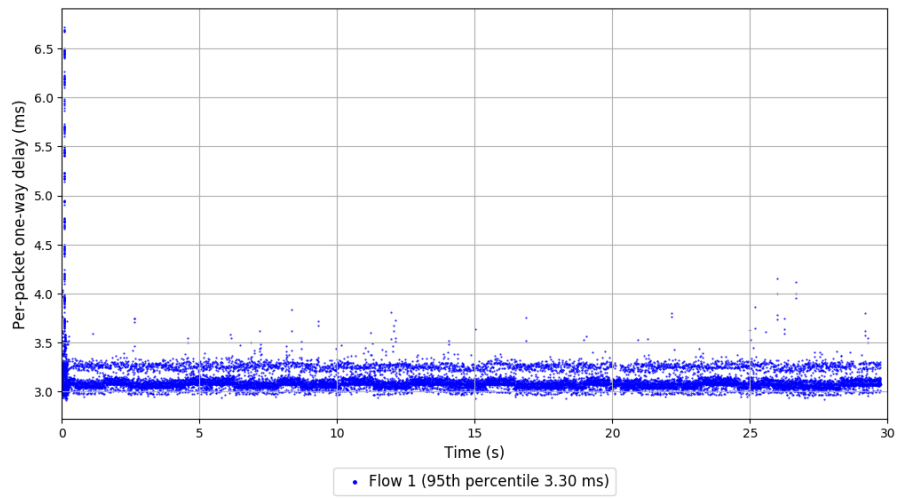
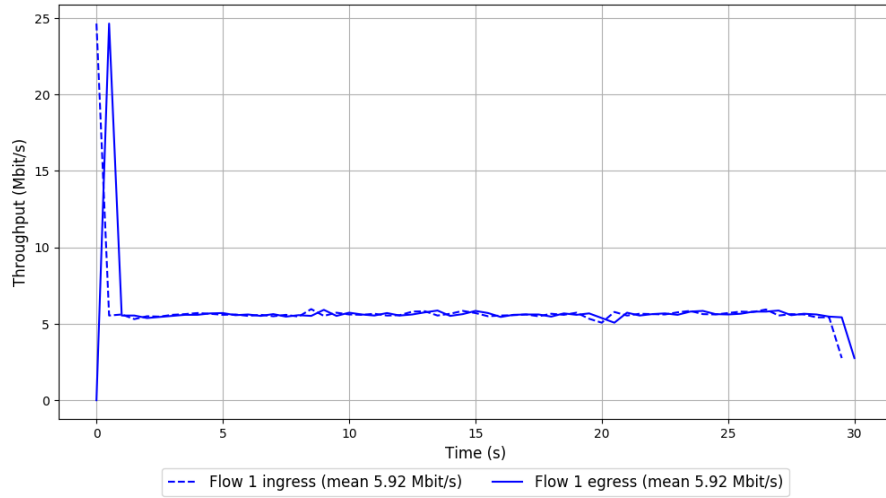
-- Flow 1:

Average throughput: 5.92 Mbit/s

95th percentile per-packet one-way delay: 3.296 ms

Loss rate: 0.00%

Run 4: Report of Muses\_DecisionTreeR0 — Data Link



Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-12-11 04:52:55

End at: 2019-12-11 04:53:25

Local clock offset: -5.62 ms

Remote clock offset: 0.105 ms

# Below is generated by plot.py at 2019-12-11 05:02:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 9.81 Mbit/s

95th percentile per-packet one-way delay: 1.078 ms

Loss rate: 0.00%

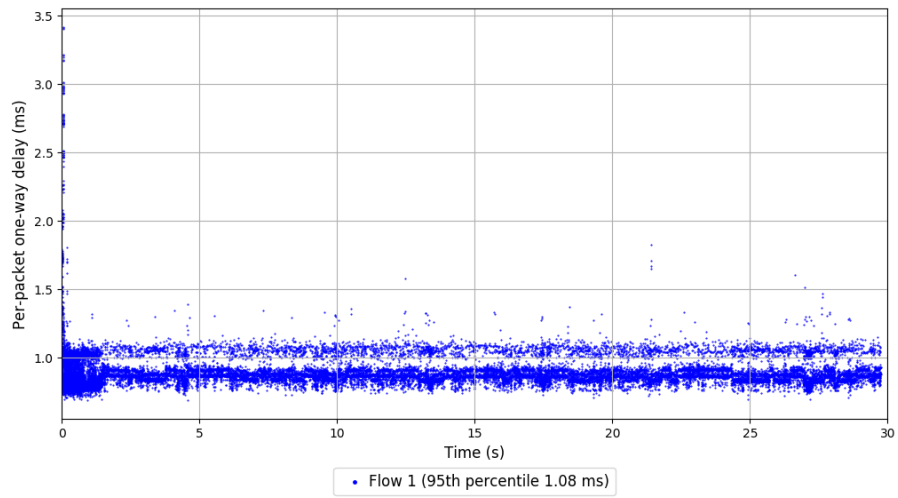
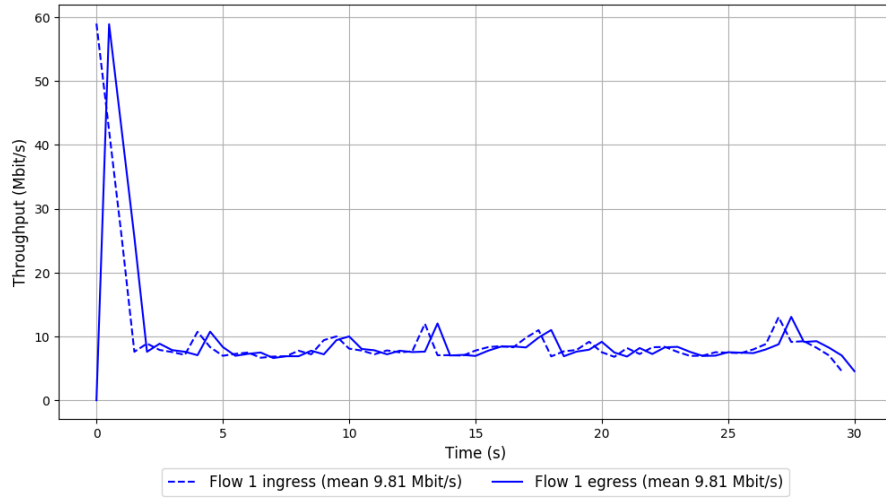
-- Flow 1:

Average throughput: 9.81 Mbit/s

95th percentile per-packet one-way delay: 1.078 ms

Loss rate: 0.00%

Run 5: Report of Muses\_DecisionTreeR0 — Data Link





Run 1: Statistics of PCC-Allegro

Start at: 2019-12-11 02:52:46

End at: 2019-12-11 02:53:16

Local clock offset: -3.655 ms

Remote clock offset: 0.182 ms

# Below is generated by plot.py at 2019-12-11 05:03:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.47 Mbit/s

95th percentile per-packet one-way delay: 4.395 ms

Loss rate: 0.00%

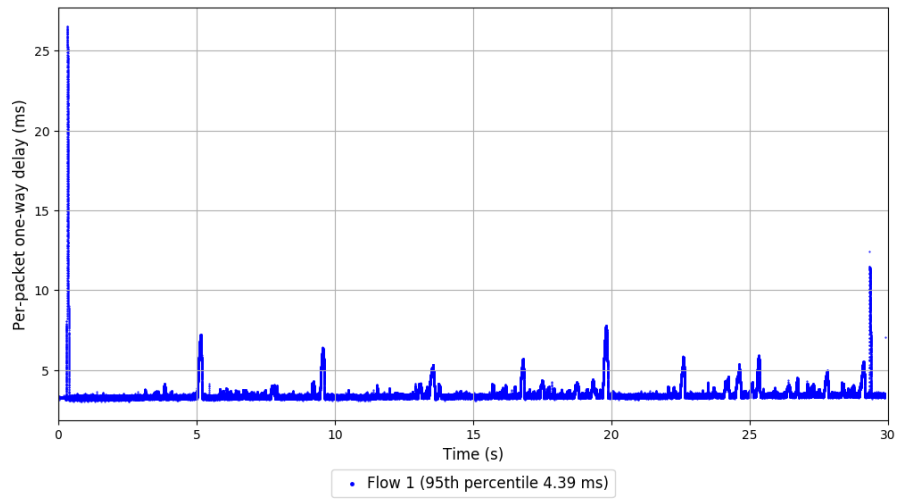
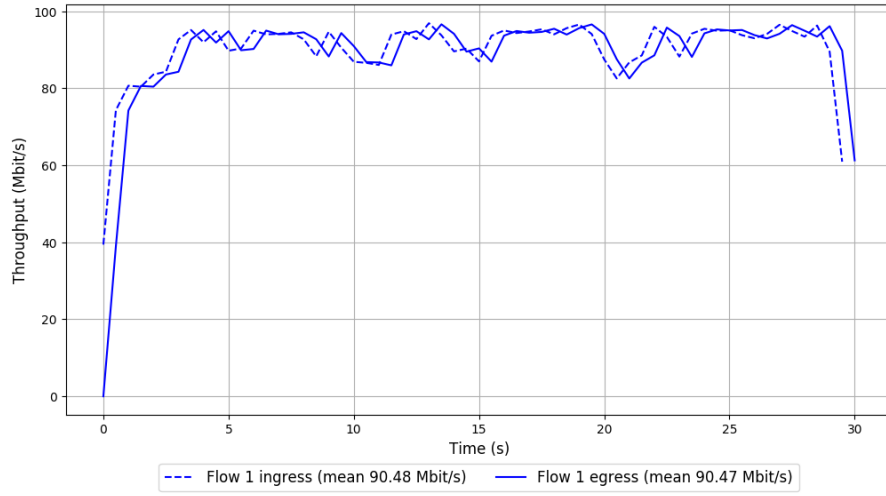
-- Flow 1:

Average throughput: 90.47 Mbit/s

95th percentile per-packet one-way delay: 4.395 ms

Loss rate: 0.00%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-12-11 03:19:27

End at: 2019-12-11 03:19:57

Local clock offset: -2.796 ms

Remote clock offset: 0.245 ms

# Below is generated by plot.py at 2019-12-11 05:03:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.92 Mbit/s

95th percentile per-packet one-way delay: 3.231 ms

Loss rate: 0.00%

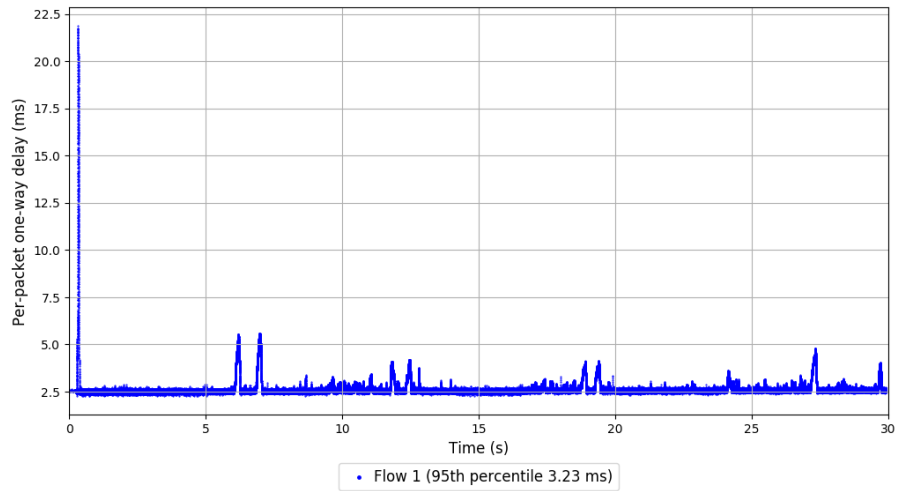
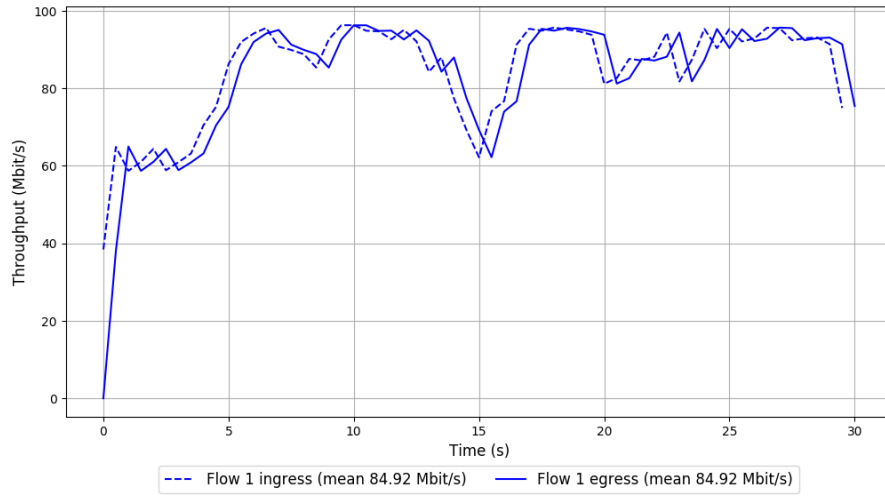
-- Flow 1:

Average throughput: 84.92 Mbit/s

95th percentile per-packet one-way delay: 3.231 ms

Loss rate: 0.00%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-12-11 03:46:10

End at: 2019-12-11 03:46:40

Local clock offset: -1.766 ms

Remote clock offset: 0.279 ms

# Below is generated by plot.py at 2019-12-11 05:03:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.01 Mbit/s

95th percentile per-packet one-way delay: 3.481 ms

Loss rate: 0.00%

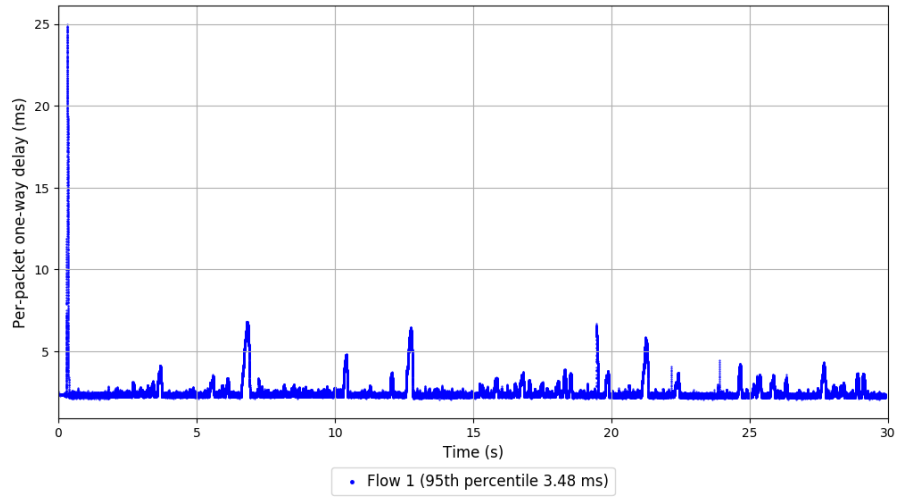
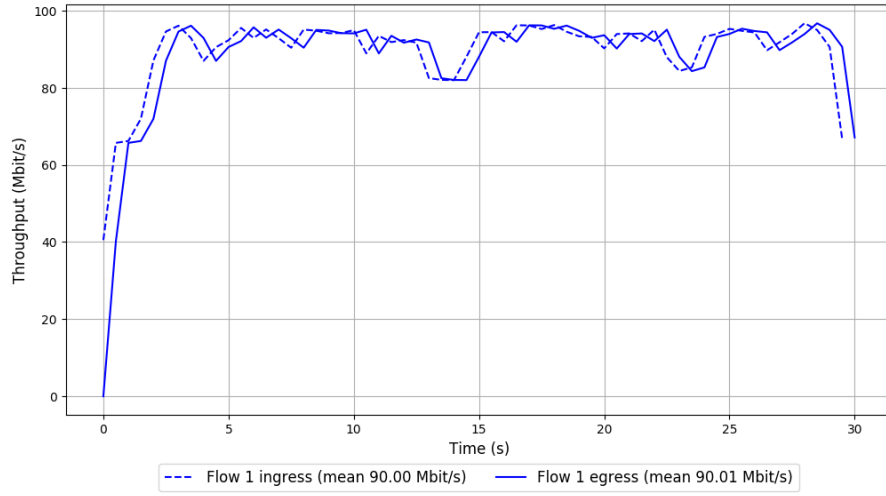
-- Flow 1:

Average throughput: 90.01 Mbit/s

95th percentile per-packet one-way delay: 3.481 ms

Loss rate: 0.00%

### Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-12-11 04:12:53

End at: 2019-12-11 04:13:23

Local clock offset: -3.581 ms

Remote clock offset: 0.441 ms

# Below is generated by plot.py at 2019-12-11 05:03:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 82.26 Mbit/s

95th percentile per-packet one-way delay: 2.963 ms

Loss rate: 0.00%

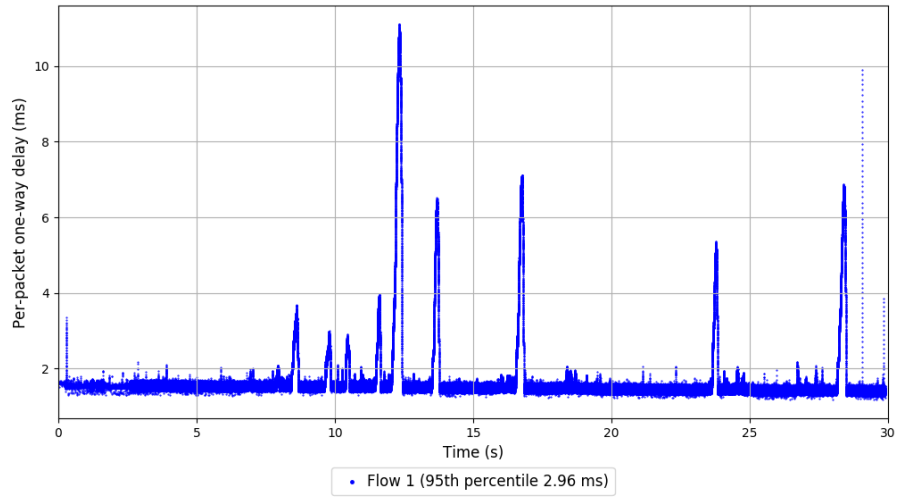
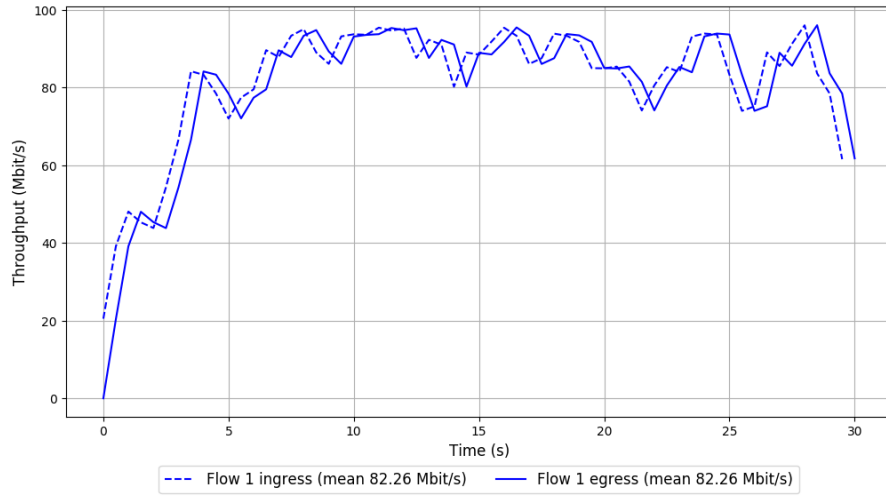
-- Flow 1:

Average throughput: 82.26 Mbit/s

95th percentile per-packet one-way delay: 2.963 ms

Loss rate: 0.00%

### Run 4: Report of PCC-Allegro — Data Link





Run 5: Statistics of PCC-Allegro

Start at: 2019-12-11 04:39:35

End at: 2019-12-11 04:40:05

Local clock offset: -5.498 ms

Remote clock offset: 0.183 ms

# Below is generated by plot.py at 2019-12-11 05:03:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.30 Mbit/s

95th percentile per-packet one-way delay: 7.482 ms

Loss rate: 0.00%

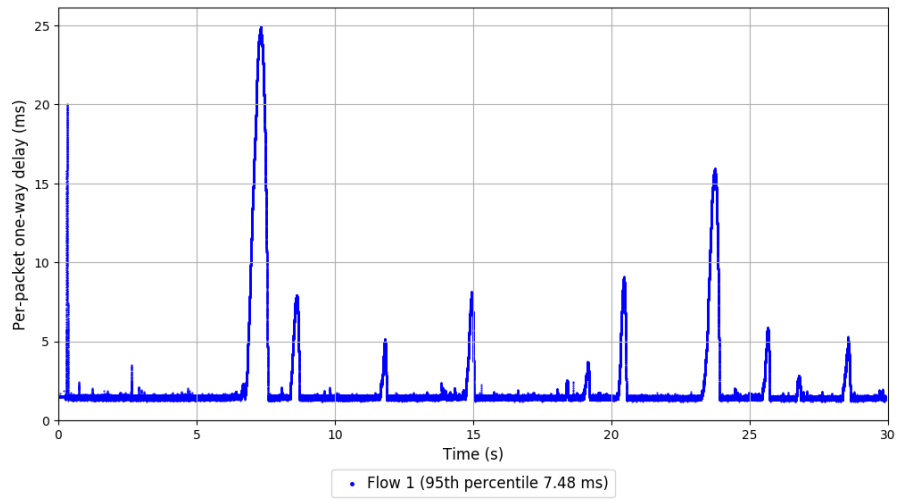
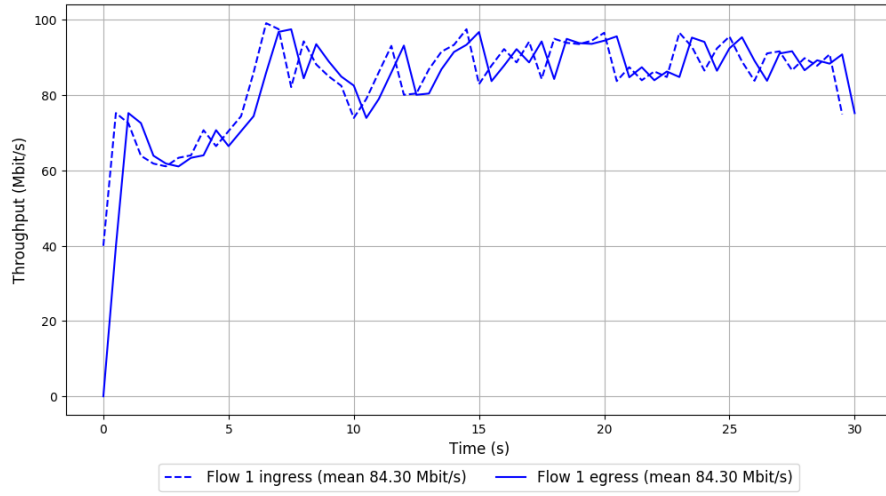
-- Flow 1:

Average throughput: 84.30 Mbit/s

95th percentile per-packet one-way delay: 7.482 ms

Loss rate: 0.00%

### Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

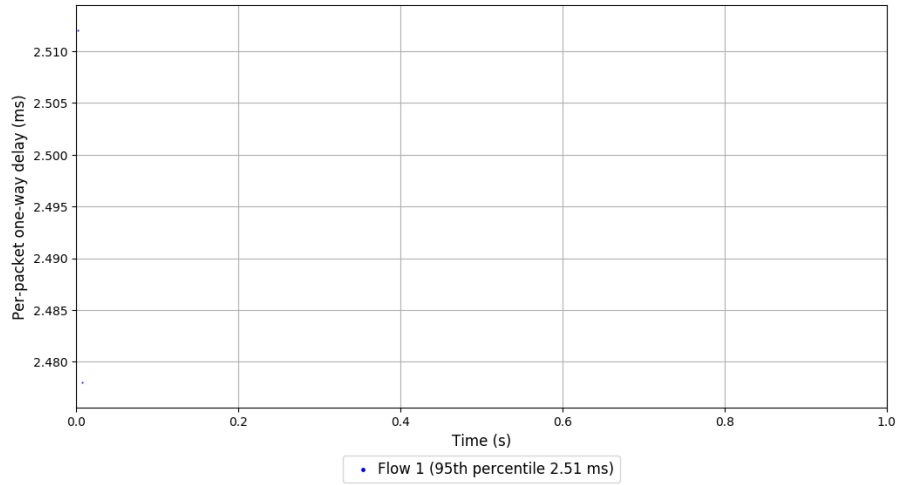
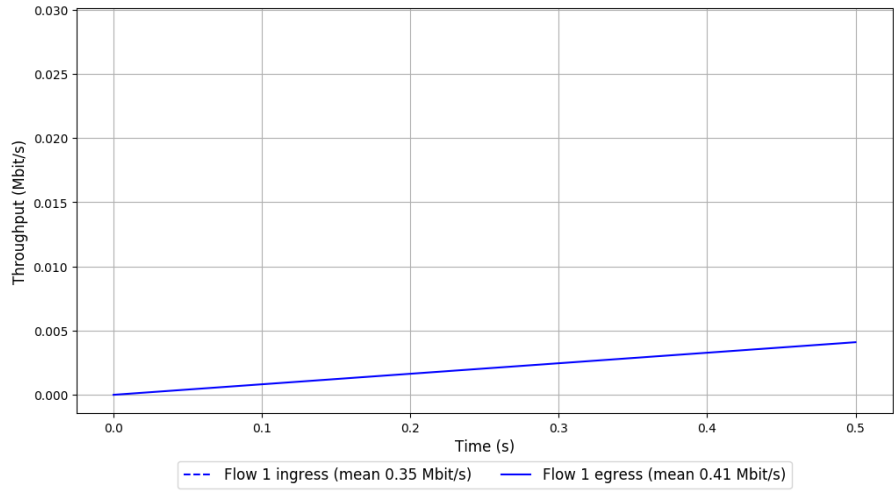
Start at: 2019-12-11 03:02:50

End at: 2019-12-11 03:03:20

Local clock offset: -3.725 ms

Remote clock offset: 0.206 ms

### Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

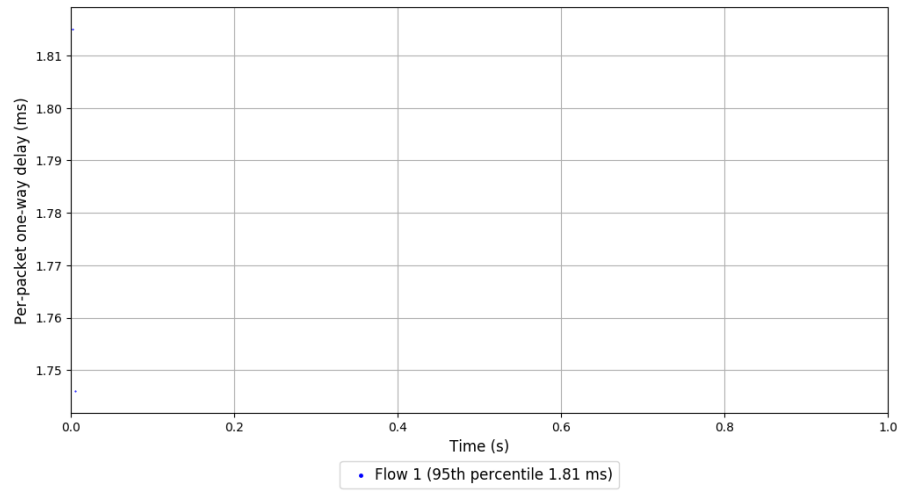
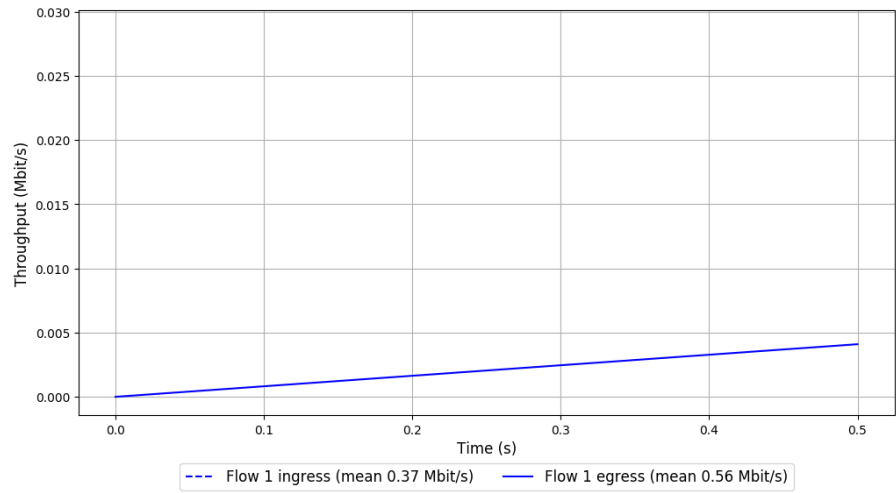
Start at: 2019-12-11 03:29:33

End at: 2019-12-11 03:30:03

Local clock offset: -1.818 ms

Remote clock offset: 0.314 ms

## Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

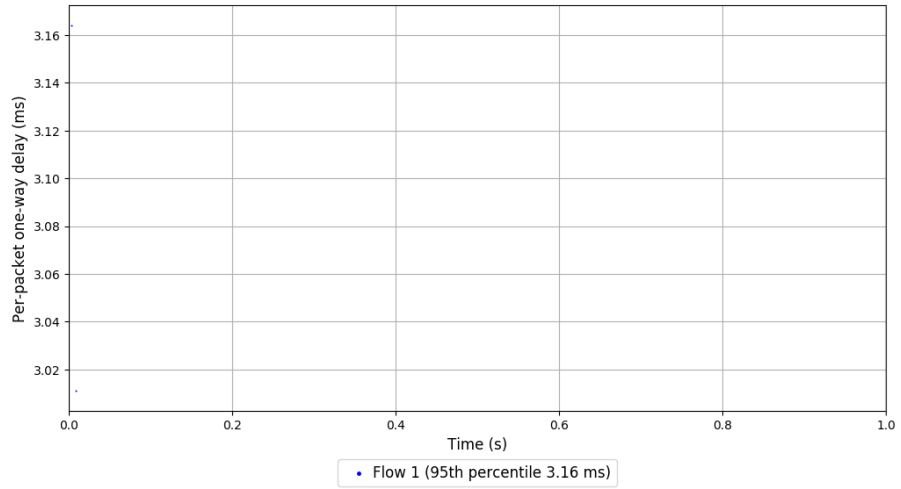
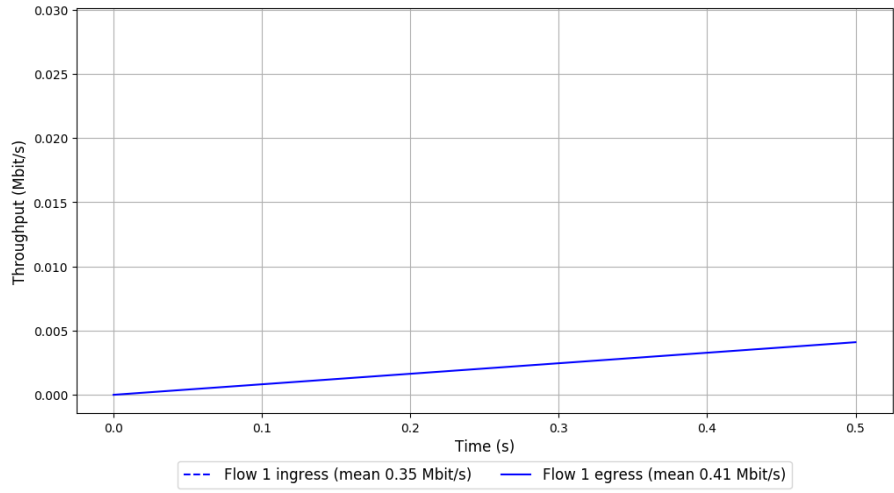
Start at: 2019-12-11 03:56:16

End at: 2019-12-11 03:56:46

Local clock offset: -2.682 ms

Remote clock offset: 0.342 ms

### Run 3: Report of PCC-Expr — Data Link





Run 4: Statistics of PCC-Expr

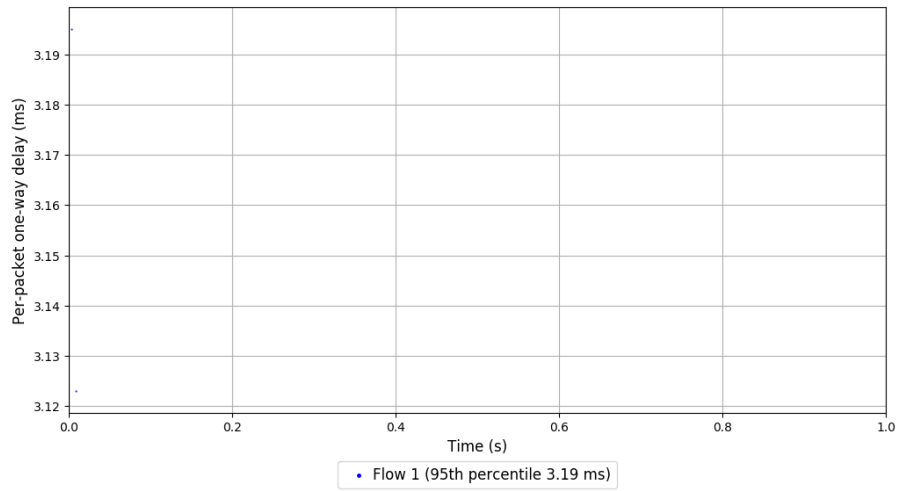
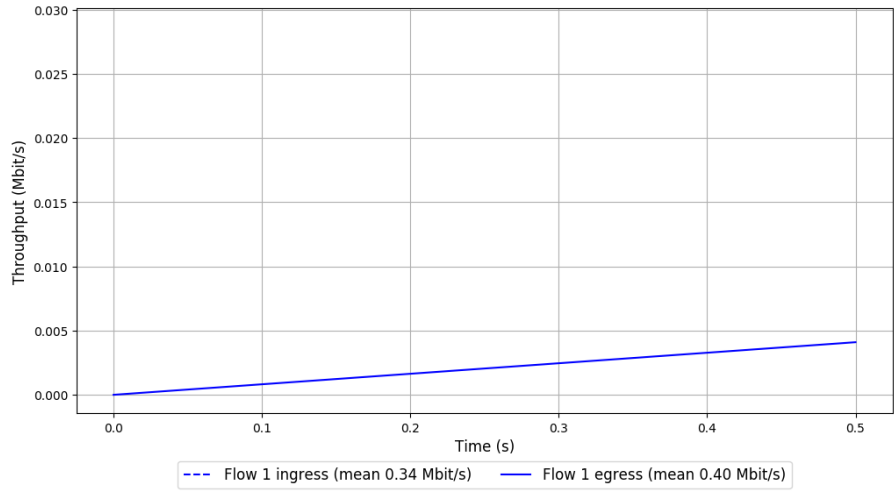
Start at: 2019-12-11 04:22:58

End at: 2019-12-11 04:23:28

Local clock offset: -5.363 ms

Remote clock offset: 0.316 ms

### Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

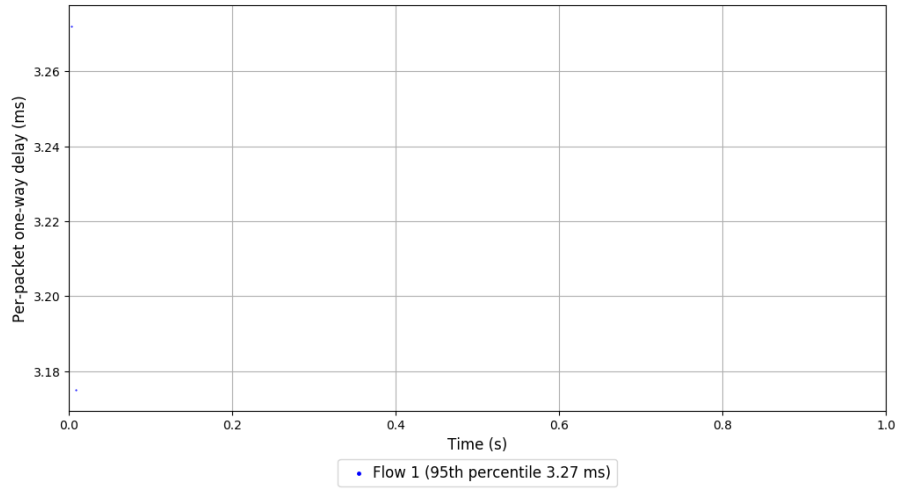
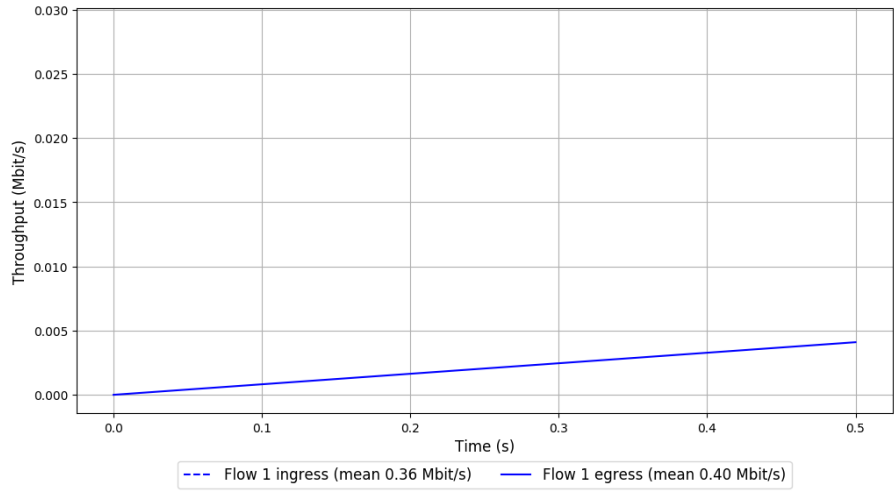
Start at: 2019-12-11 04:49:41

End at: 2019-12-11 04:50:11

Local clock offset: -6.286 ms

Remote clock offset: 0.215 ms

### Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-12-11 02:43:45

End at: 2019-12-11 02:44:15

Local clock offset: -4.467 ms

Remote clock offset: 0.079 ms

# Below is generated by plot.py at 2019-12-11 05:03:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.25 Mbit/s

95th percentile per-packet one-way delay: 4.685 ms

Loss rate: 0.29%

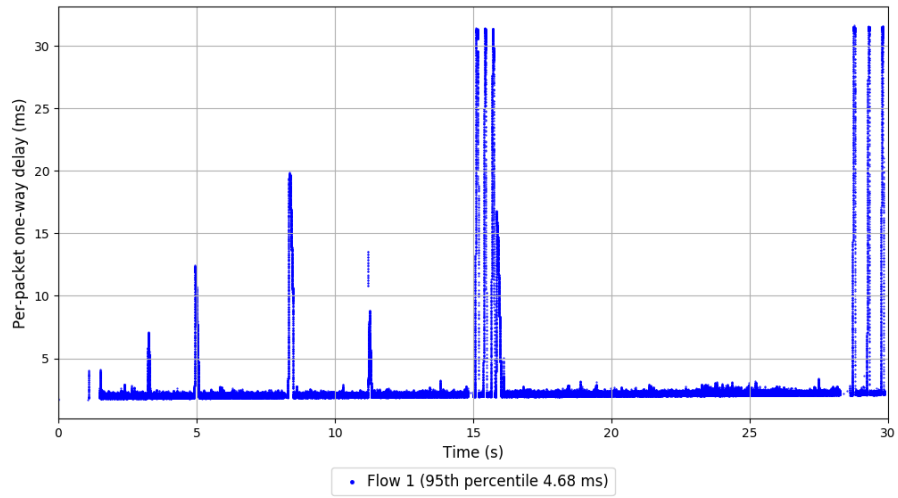
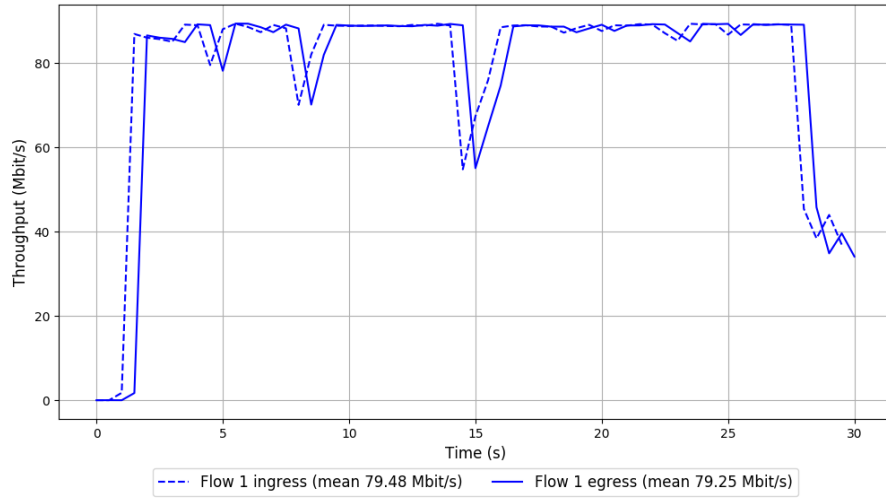
-- Flow 1:

Average throughput: 79.25 Mbit/s

95th percentile per-packet one-way delay: 4.685 ms

Loss rate: 0.29%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-12-11 03:10:26

End at: 2019-12-11 03:10:56

Local clock offset: -3.03 ms

Remote clock offset: 0.186 ms

# Below is generated by plot.py at 2019-12-11 05:03:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 77.30 Mbit/s

95th percentile per-packet one-way delay: 6.670 ms

Loss rate: 0.37%

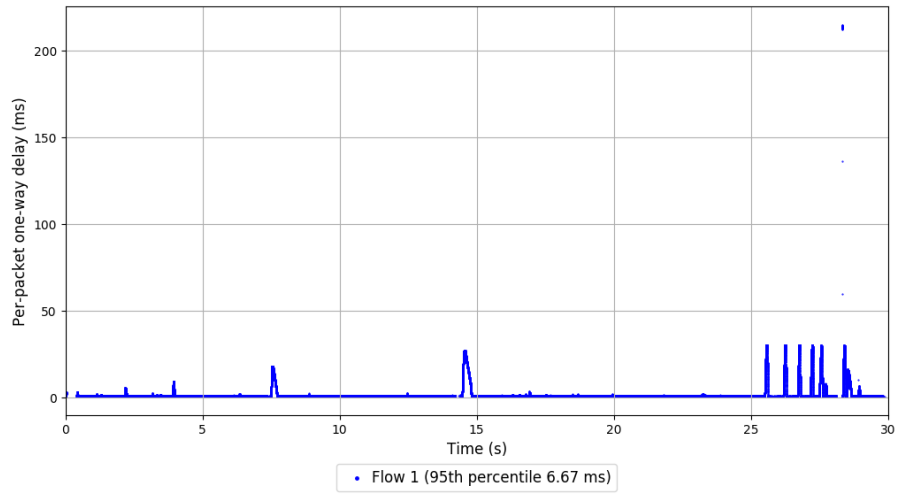
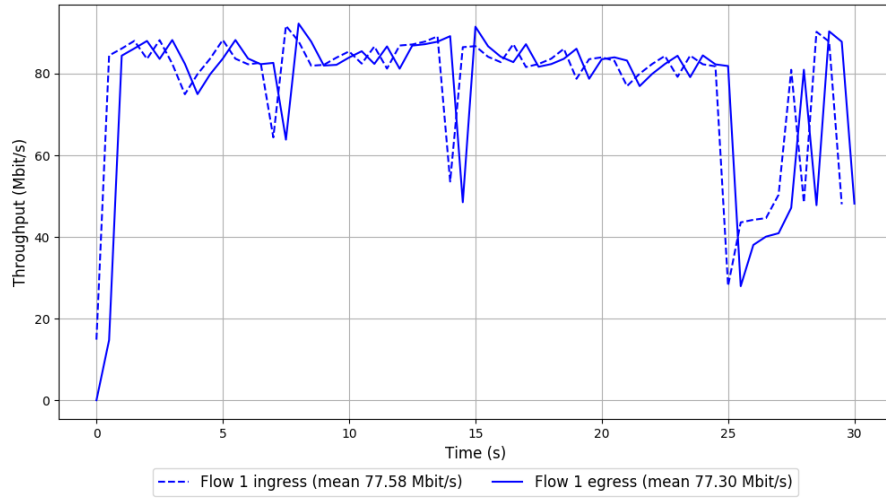
-- Flow 1:

Average throughput: 77.30 Mbit/s

95th percentile per-packet one-way delay: 6.670 ms

Loss rate: 0.37%

Run 2: Report of QUIC Cubic — Data Link





Run 3: Statistics of QUIC Cubic

Start at: 2019-12-11 03:37:09

End at: 2019-12-11 03:37:39

Local clock offset: -0.244 ms

Remote clock offset: 0.348 ms

# Below is generated by plot.py at 2019-12-11 05:03:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.06 Mbit/s

95th percentile per-packet one-way delay: 7.135 ms

Loss rate: 0.21%

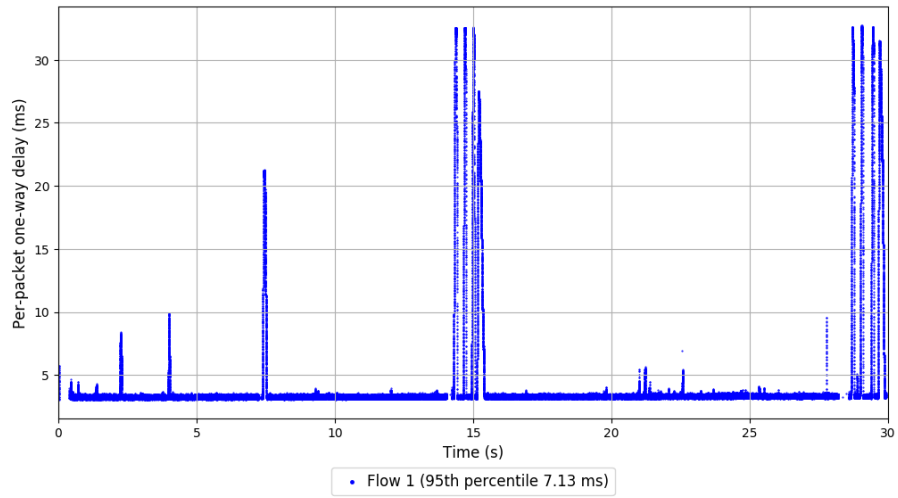
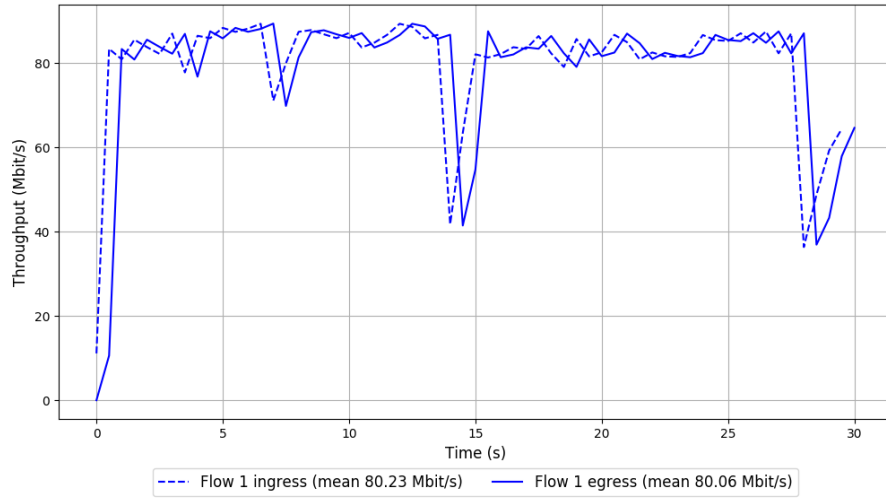
-- Flow 1:

Average throughput: 80.06 Mbit/s

95th percentile per-packet one-way delay: 7.135 ms

Loss rate: 0.21%

### Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-12-11 04:03:52

End at: 2019-12-11 04:04:22

Local clock offset: -2.012 ms

Remote clock offset: 0.344 ms

# Below is generated by plot.py at 2019-12-11 05:04:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 76.99 Mbit/s

95th percentile per-packet one-way delay: 3.366 ms

Loss rate: 0.31%

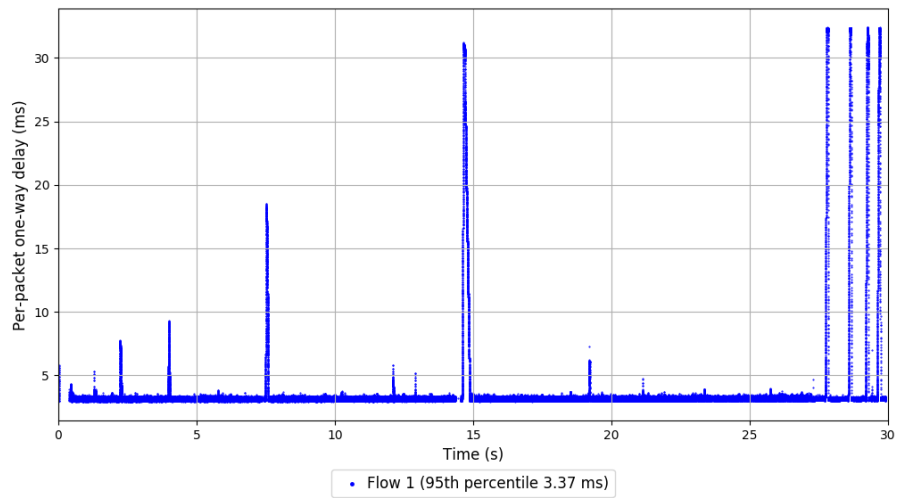
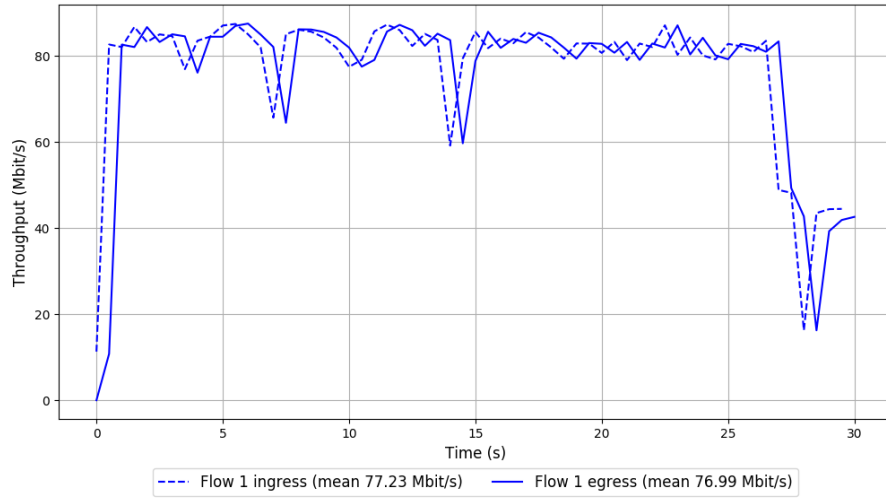
-- Flow 1:

Average throughput: 76.99 Mbit/s

95th percentile per-packet one-way delay: 3.366 ms

Loss rate: 0.31%

### Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-12-11 04:30:35

End at: 2019-12-11 04:31:05

Local clock offset: -4.862 ms

Remote clock offset: 0.271 ms

# Below is generated by plot.py at 2019-12-11 05:04:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 78.75 Mbit/s

95th percentile per-packet one-way delay: 1.197 ms

Loss rate: 0.22%

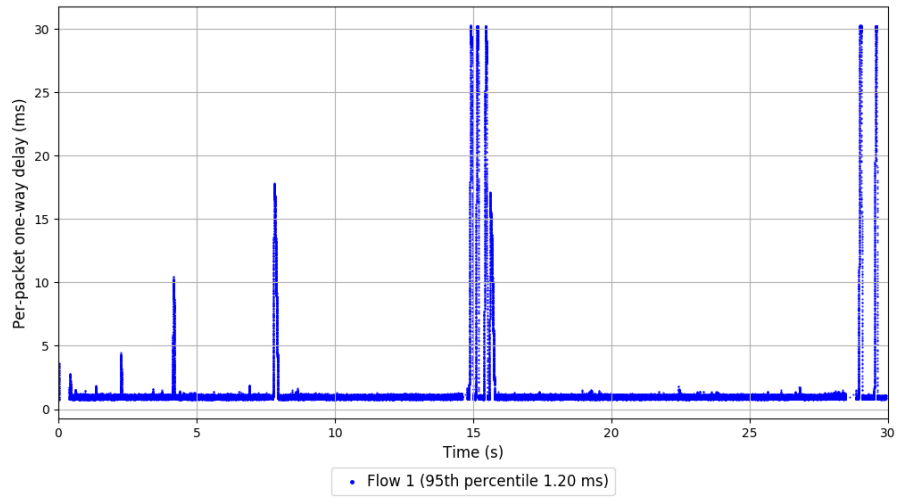
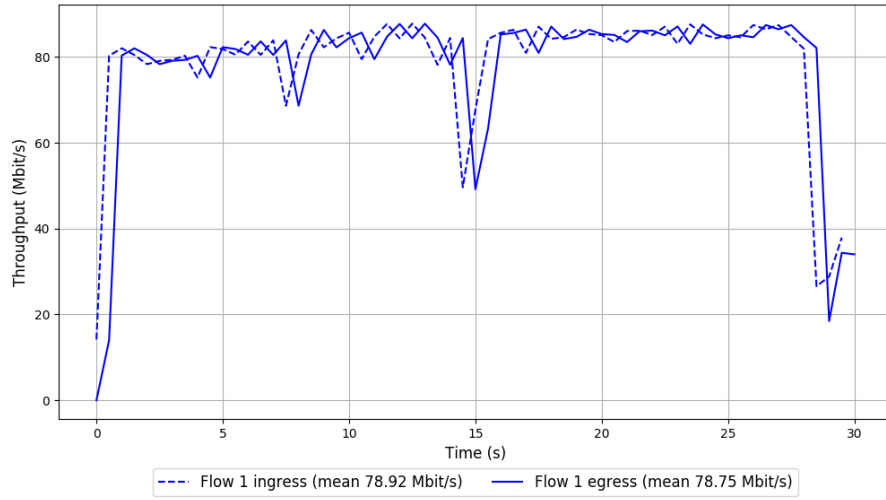
-- Flow 1:

Average throughput: 78.75 Mbit/s

95th percentile per-packet one-way delay: 1.197 ms

Loss rate: 0.22%

### Run 5: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2019-12-11 03:04:59

End at: 2019-12-11 03:05:29

Local clock offset: -3.483 ms

Remote clock offset: 0.098 ms

# Below is generated by plot.py at 2019-12-11 05:04:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.518 ms

Loss rate: 0.00%

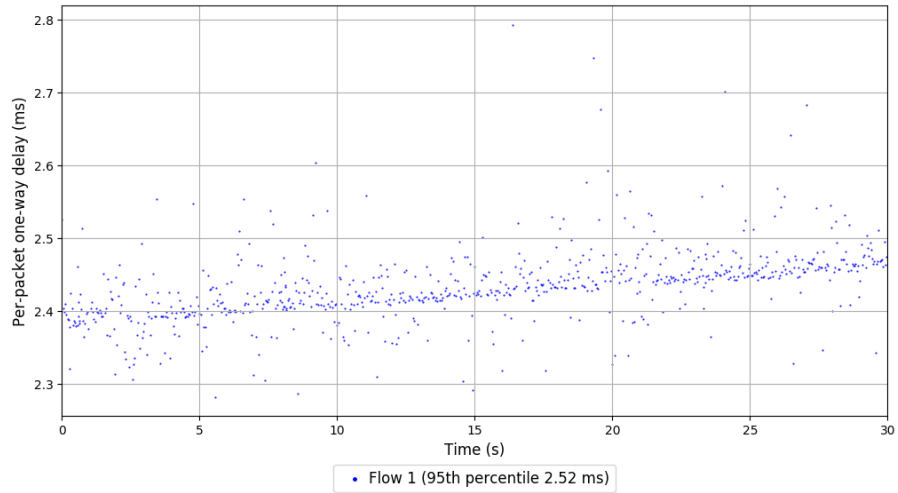
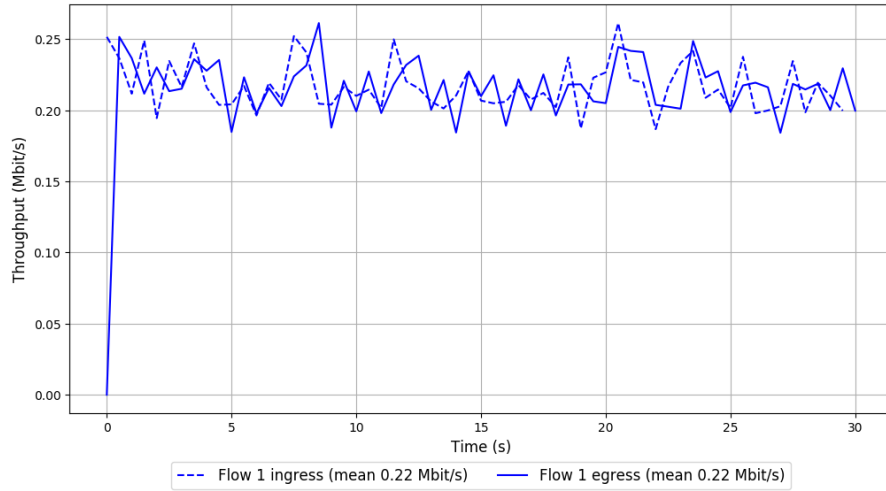
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.518 ms

Loss rate: 0.00%

### Run 1: Report of SCReAM — Data Link





Run 2: Statistics of SCReAM

Start at: 2019-12-11 03:31:43

End at: 2019-12-11 03:32:13

Local clock offset: -1.39 ms

Remote clock offset: 0.322 ms

# Below is generated by plot.py at 2019-12-11 05:04:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 3.320 ms

Loss rate: 0.00%

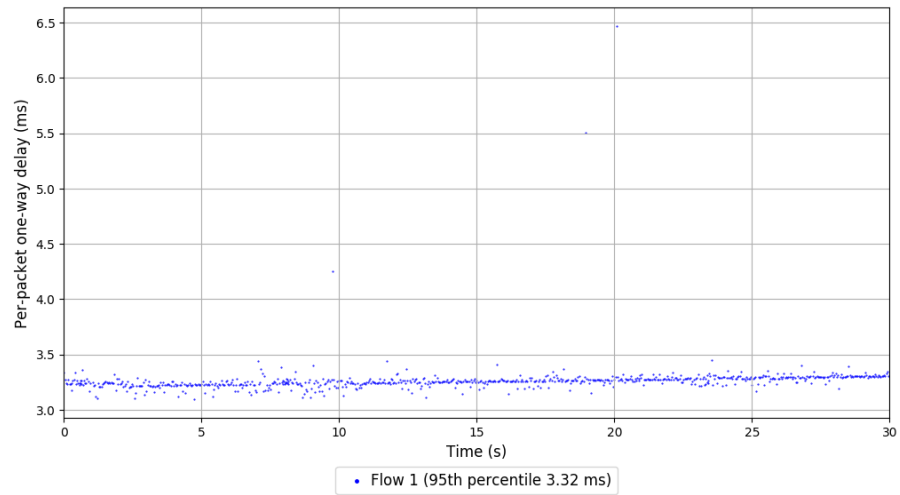
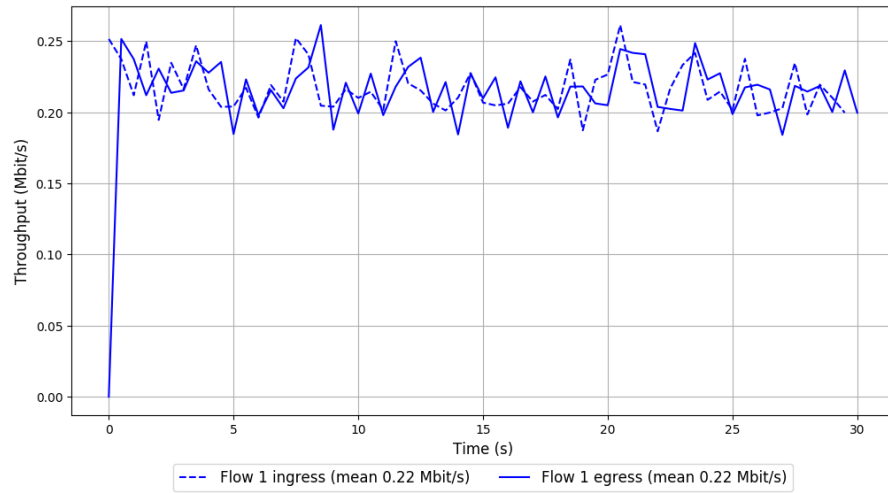
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 3.320 ms

Loss rate: 0.00%

## Run 2: Report of SCReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-12-11 03:58:26

End at: 2019-12-11 03:58:56

Local clock offset: -1.851 ms

Remote clock offset: 0.483 ms

# Below is generated by plot.py at 2019-12-11 05:04:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.082 ms

Loss rate: 0.00%

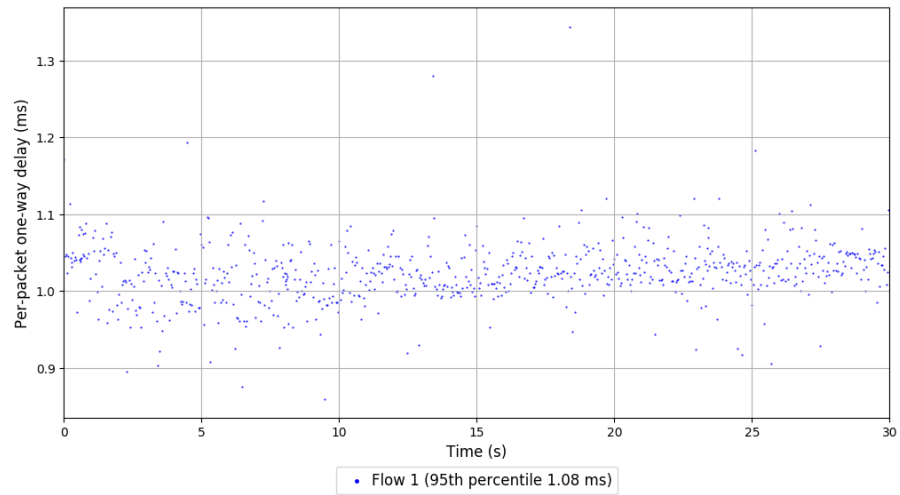
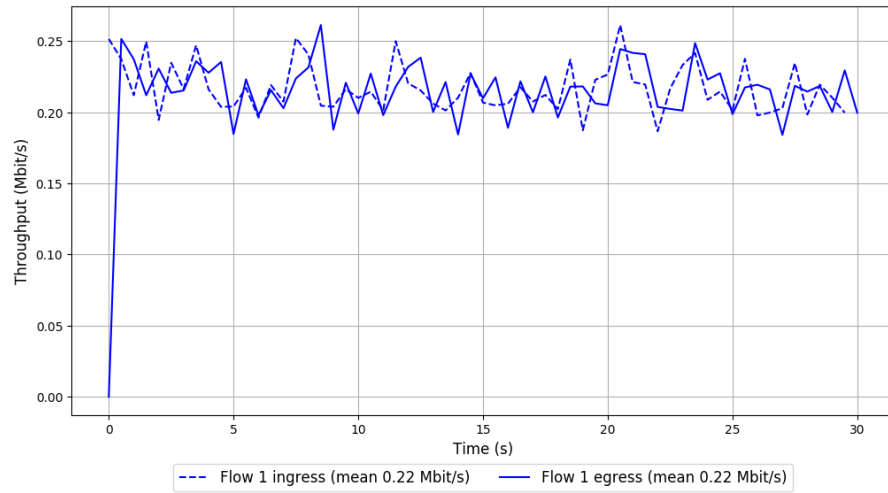
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.082 ms

Loss rate: 0.00%

### Run 3: Report of SCReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-12-11 04:25:08

End at: 2019-12-11 04:25:38

Local clock offset: -5.472 ms

Remote clock offset: 0.35 ms

# Below is generated by plot.py at 2019-12-11 05:04:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.661 ms

Loss rate: 0.00%

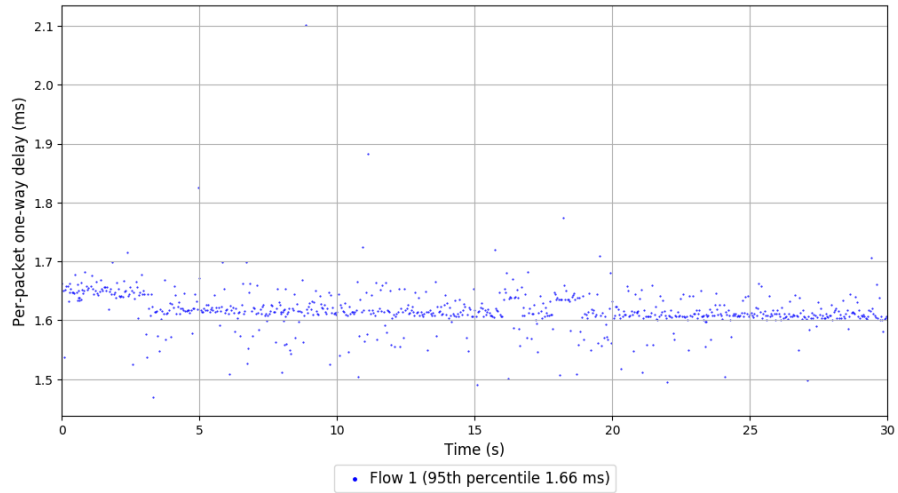
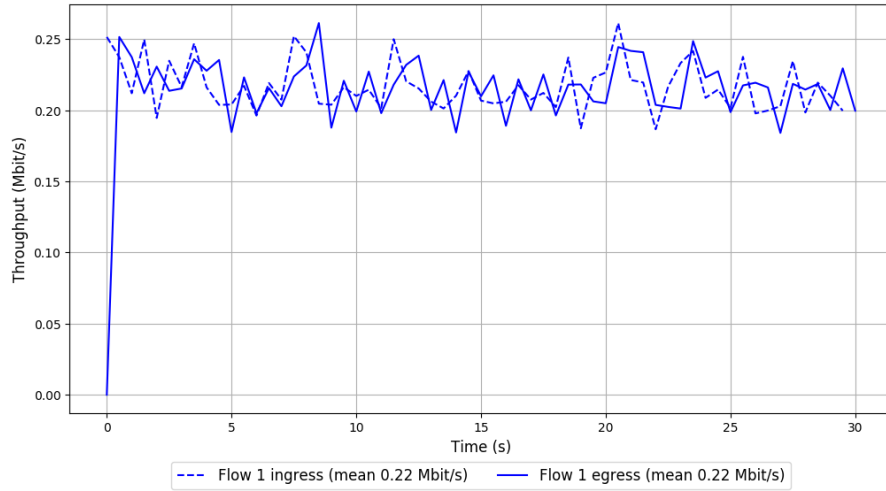
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.661 ms

Loss rate: 0.00%

#### Run 4: Report of SCReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-12-11 04:51:50

End at: 2019-12-11 04:52:21

Local clock offset: -6.328 ms

Remote clock offset: 0.127 ms

# Below is generated by plot.py at 2019-12-11 05:04:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.629 ms

Loss rate: 0.00%

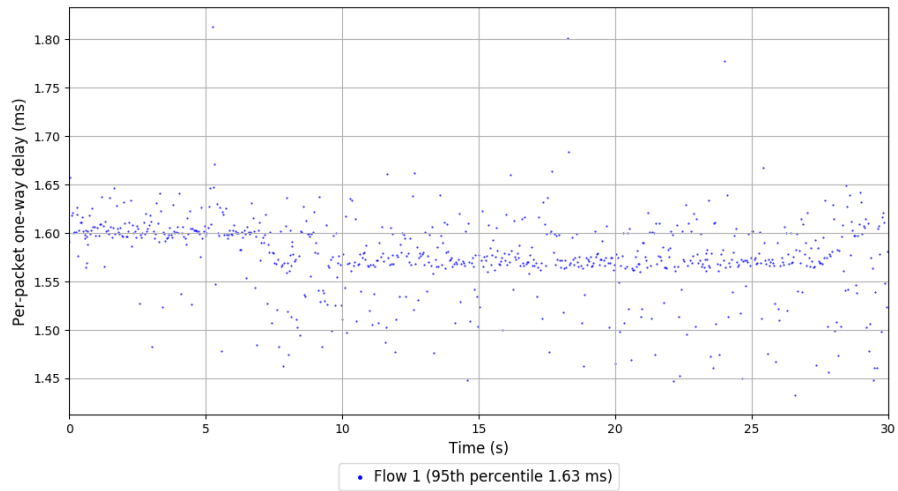
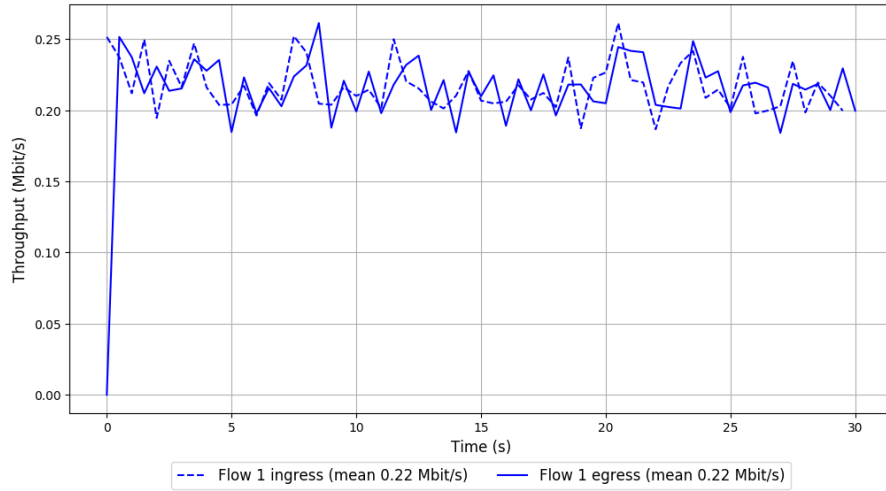
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.629 ms

Loss rate: 0.00%

### Run 5: Report of SCReAM — Data Link





Run 1: Statistics of Sprout

Start at: 2019-12-11 02:44:52

End at: 2019-12-11 02:45:22

Local clock offset: -2.966 ms

Remote clock offset: 0.16 ms

# Below is generated by plot.py at 2019-12-11 05:04:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.19 Mbit/s

95th percentile per-packet one-way delay: 11.980 ms

Loss rate: 0.00%

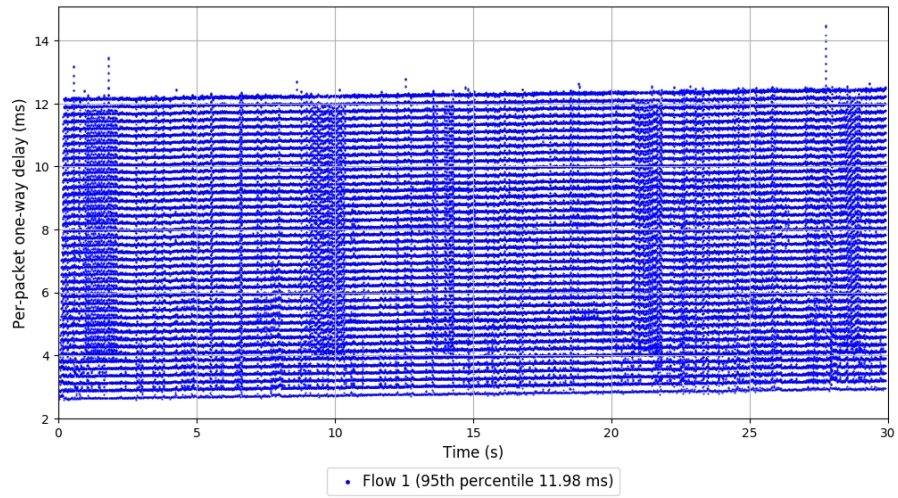
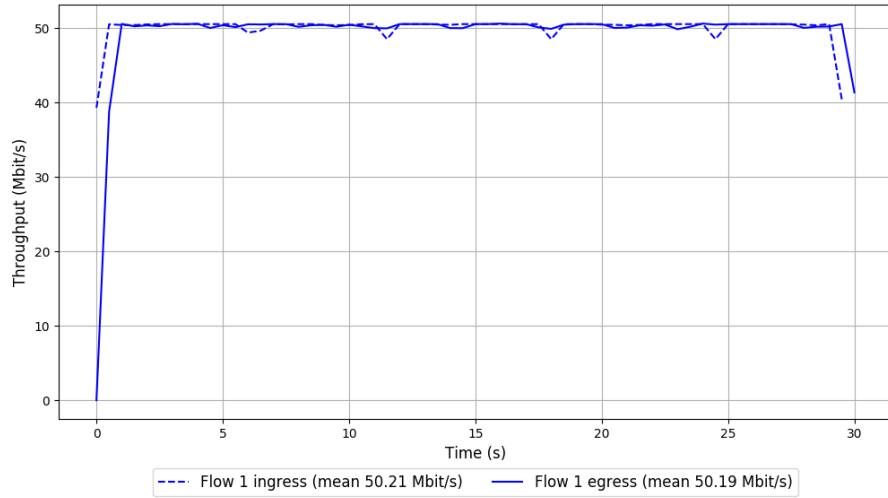
-- Flow 1:

Average throughput: 50.19 Mbit/s

95th percentile per-packet one-way delay: 11.980 ms

Loss rate: 0.00%

# Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-12-11 03:11:33

End at: 2019-12-11 03:12:03

Local clock offset: -3.873 ms

Remote clock offset: 0.144 ms

# Below is generated by plot.py at 2019-12-11 05:04:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.28 Mbit/s

95th percentile per-packet one-way delay: 10.845 ms

Loss rate: 0.00%

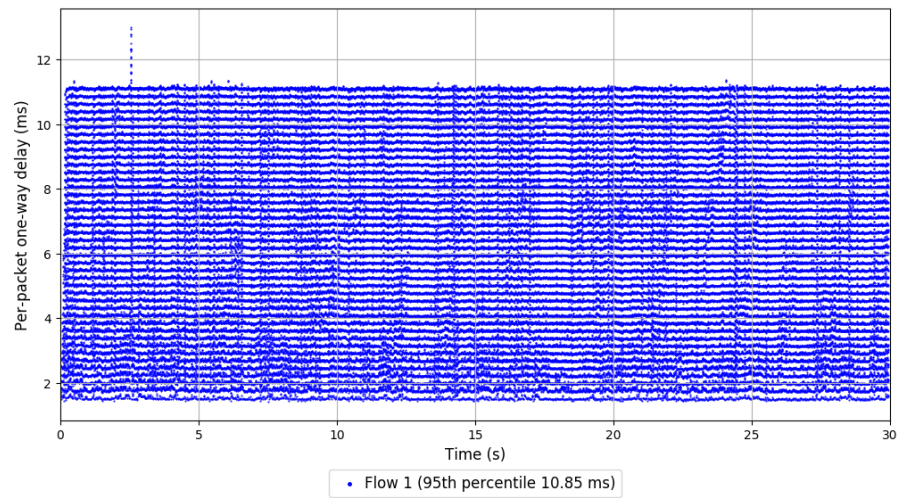
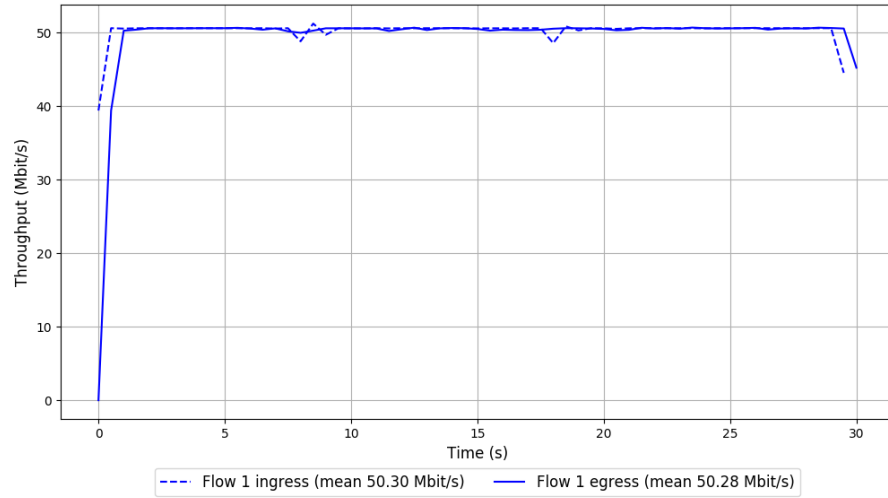
-- Flow 1:

Average throughput: 50.28 Mbit/s

95th percentile per-packet one-way delay: 10.845 ms

Loss rate: 0.00%

## Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-12-11 03:38:17

End at: 2019-12-11 03:38:47

Local clock offset: 0.702 ms

Remote clock offset: 0.278 ms

# Below is generated by plot.py at 2019-12-11 05:04:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.25 Mbit/s

95th percentile per-packet one-way delay: 11.336 ms

Loss rate: 0.00%

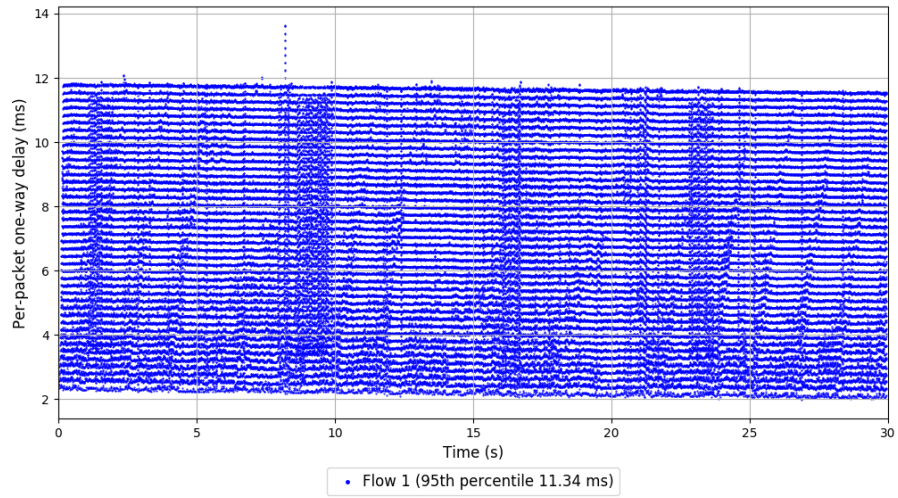
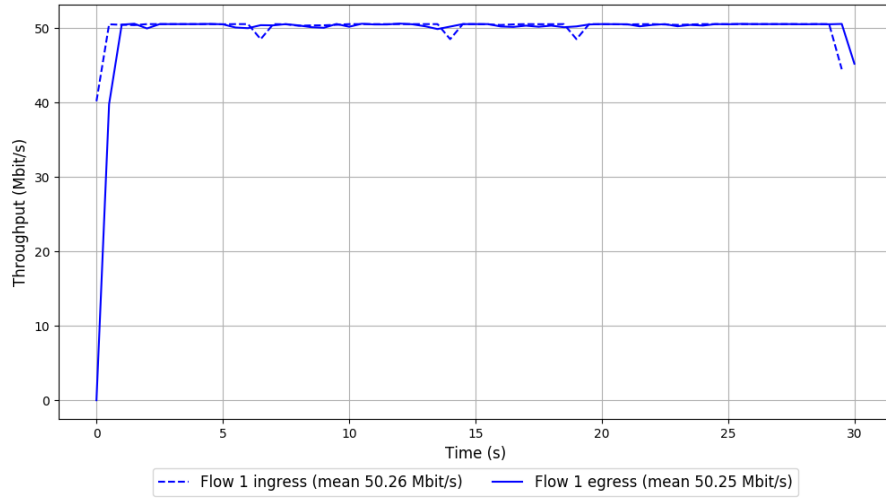
-- Flow 1:

Average throughput: 50.25 Mbit/s

95th percentile per-packet one-way delay: 11.336 ms

Loss rate: 0.00%

### Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-12-11 04:05:00

End at: 2019-12-11 04:05:30

Local clock offset: -1.283 ms

Remote clock offset: 0.428 ms

# Below is generated by plot.py at 2019-12-11 05:04:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.29 Mbit/s

95th percentile per-packet one-way delay: 11.970 ms

Loss rate: 0.00%

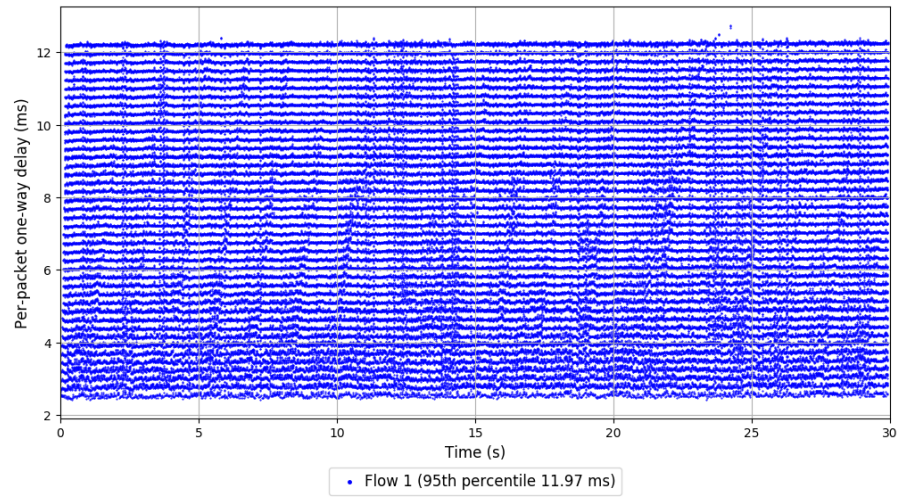
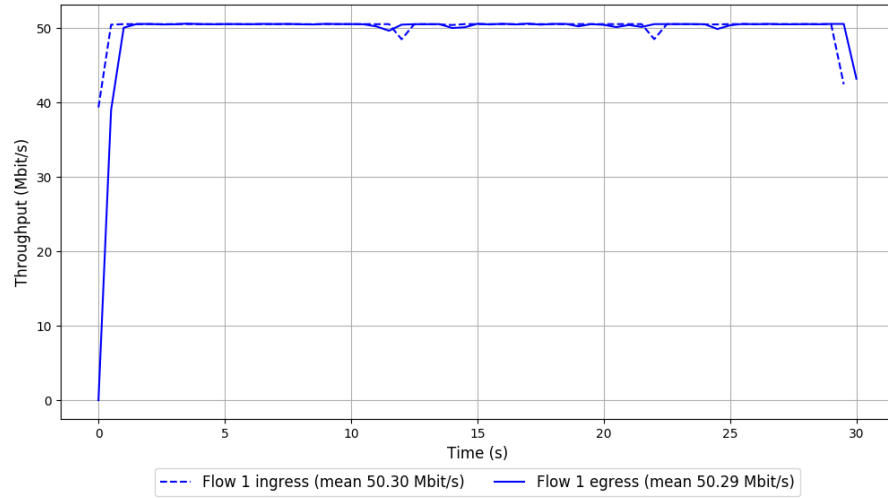
-- Flow 1:

Average throughput: 50.29 Mbit/s

95th percentile per-packet one-way delay: 11.970 ms

Loss rate: 0.00%

### Run 4: Report of Sprout — Data Link





Run 5: Statistics of Sprout

Start at: 2019-12-11 04:31:42

End at: 2019-12-11 04:32:12

Local clock offset: -5.541 ms

Remote clock offset: 0.322 ms

# Below is generated by plot.py at 2019-12-11 05:04:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.28 Mbit/s

95th percentile per-packet one-way delay: 11.050 ms

Loss rate: 0.00%

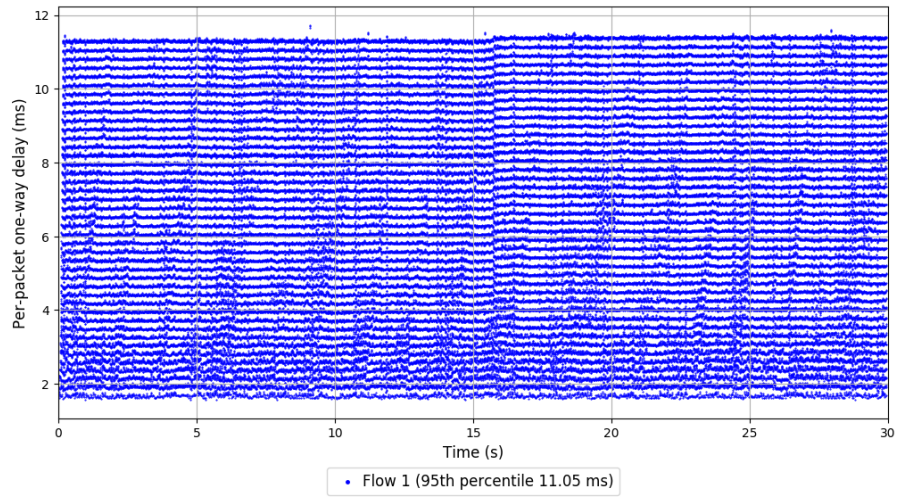
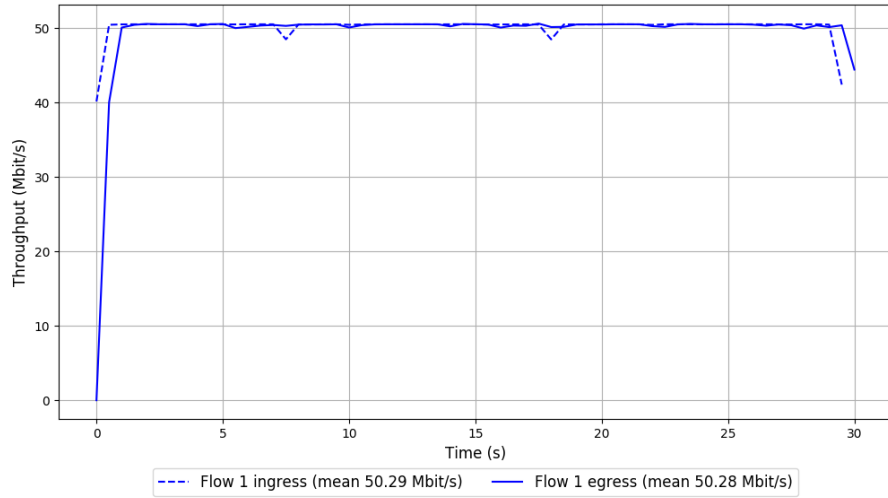
-- Flow 1:

Average throughput: 50.28 Mbit/s

95th percentile per-packet one-way delay: 11.050 ms

Loss rate: 0.00%

### Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-12-11 03:03:54

End at: 2019-12-11 03:04:24

Local clock offset: -3.614 ms

Remote clock offset: 0.142 ms

# Below is generated by plot.py at 2019-12-11 05:04:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 10.06 Mbit/s

95th percentile per-packet one-way delay: 2.519 ms

Loss rate: 81.14%

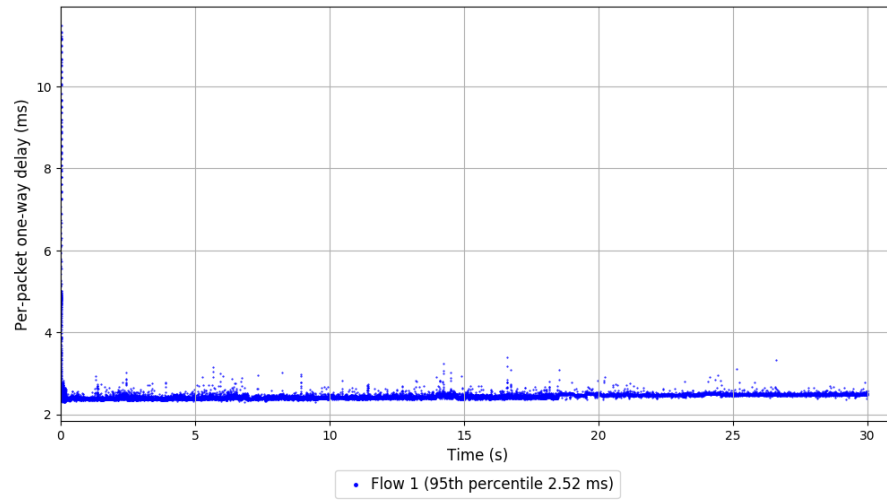
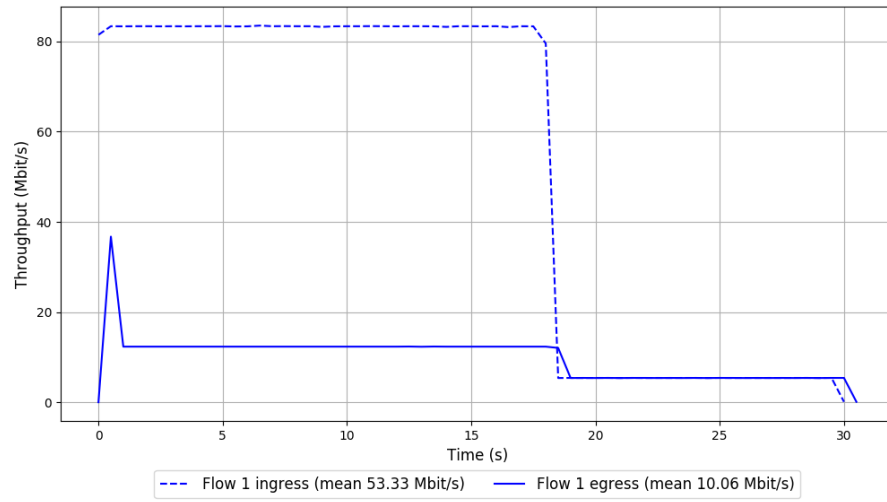
-- Flow 1:

Average throughput: 10.06 Mbit/s

95th percentile per-packet one-way delay: 2.519 ms

Loss rate: 81.14%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-12-11 03:30:37

End at: 2019-12-11 03:31:07

Local clock offset: -0.929 ms

Remote clock offset: 0.299 ms

# Below is generated by plot.py at 2019-12-11 05:04:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 10.07 Mbit/s

95th percentile per-packet one-way delay: 1.134 ms

Loss rate: 81.13%

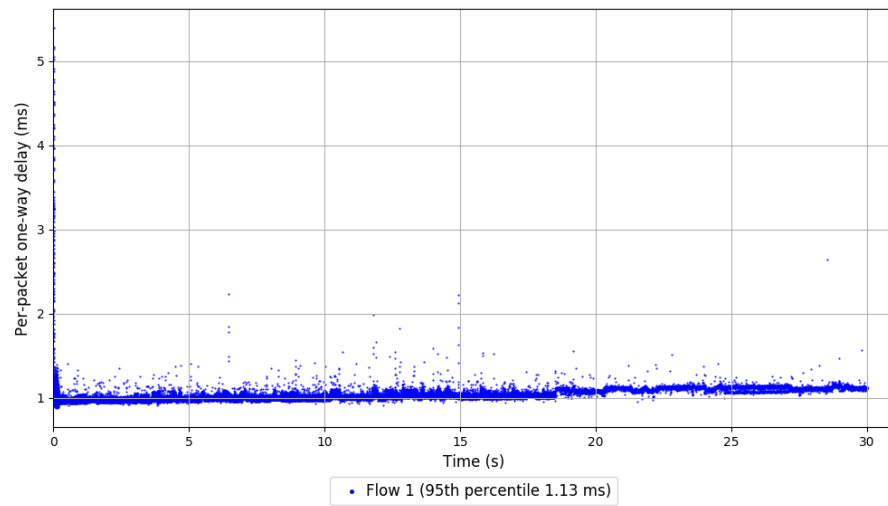
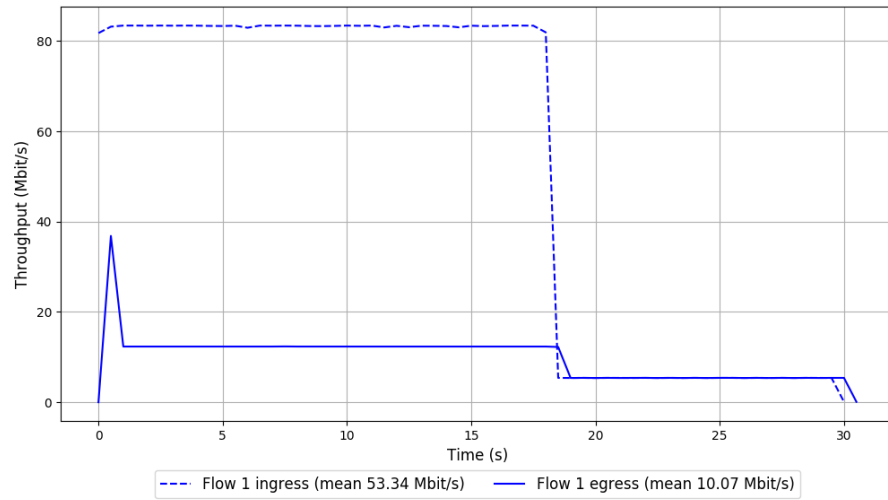
-- Flow 1:

Average throughput: 10.07 Mbit/s

95th percentile per-packet one-way delay: 1.134 ms

Loss rate: 81.13%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-12-11 03:57:20

End at: 2019-12-11 03:57:50

Local clock offset: -1.904 ms

Remote clock offset: 0.477 ms

# Below is generated by plot.py at 2019-12-11 05:04:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 10.06 Mbit/s

95th percentile per-packet one-way delay: 1.059 ms

Loss rate: 81.13%

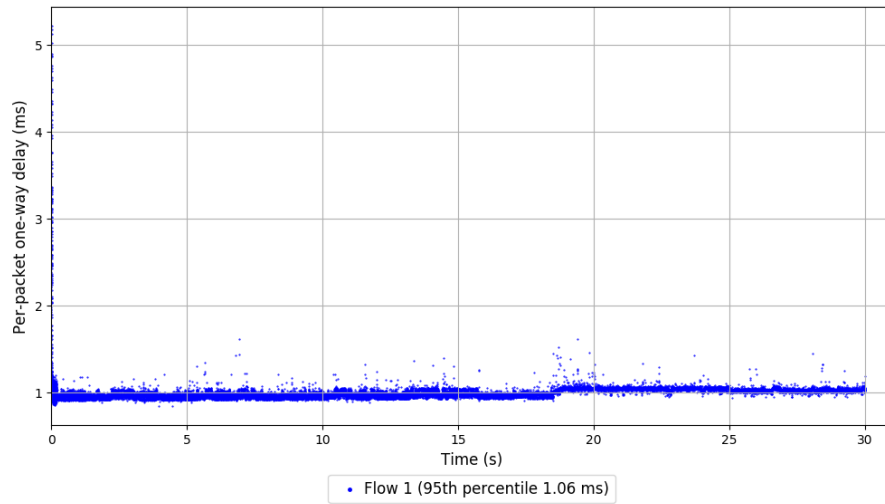
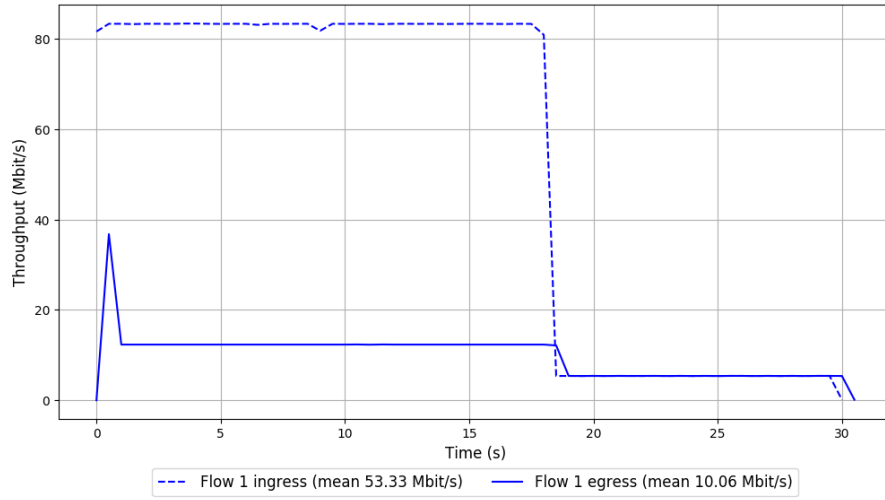
-- Flow 1:

Average throughput: 10.06 Mbit/s

95th percentile per-packet one-way delay: 1.059 ms

Loss rate: 81.13%

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





Run 4: Statistics of TaoVA-100x

Start at: 2019-12-11 04:24:03

End at: 2019-12-11 04:24:33

Local clock offset: -4.784 ms

Remote clock offset: 0.4 ms

# Below is generated by plot.py at 2019-12-11 05:04:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 10.06 Mbit/s

95th percentile per-packet one-way delay: 2.564 ms

Loss rate: 81.13%

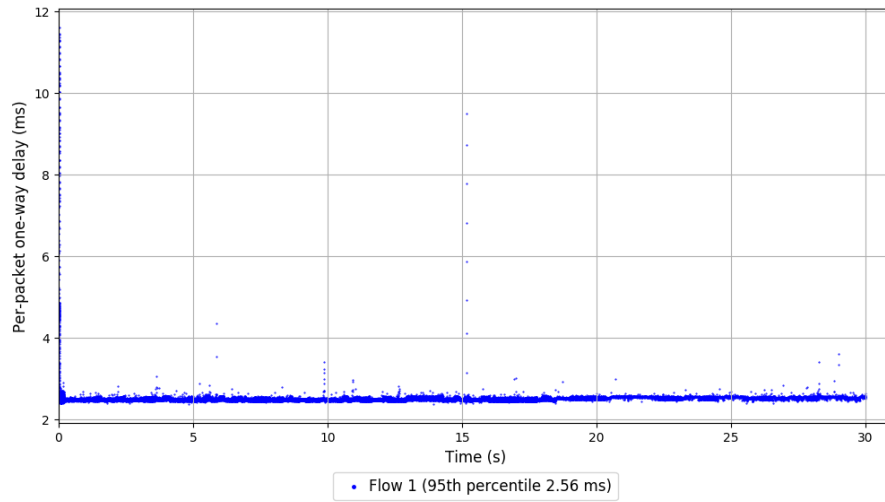
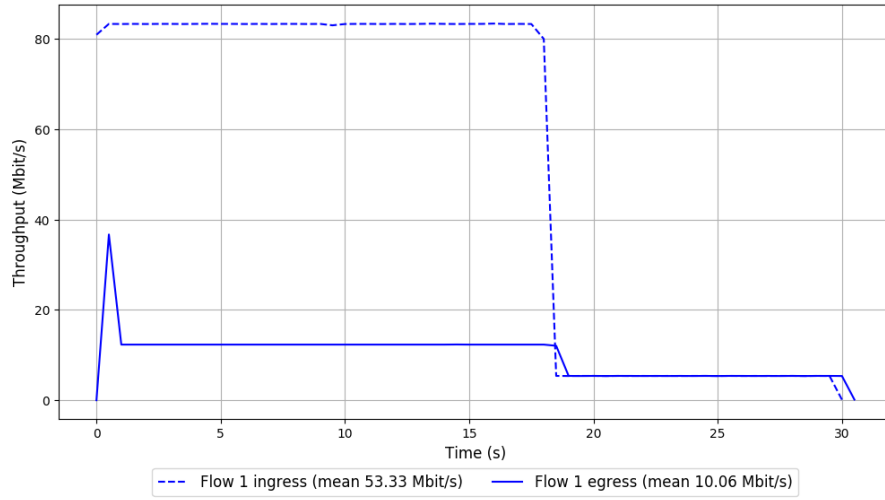
-- Flow 1:

Average throughput: 10.06 Mbit/s

95th percentile per-packet one-way delay: 2.564 ms

Loss rate: 81.13%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-12-11 04:50:45

End at: 2019-12-11 04:51:15

Local clock offset: -5.602 ms

Remote clock offset: 0.189 ms

# Below is generated by plot.py at 2019-12-11 05:04:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 10.06 Mbit/s

95th percentile per-packet one-way delay: 0.965 ms

Loss rate: 81.13%

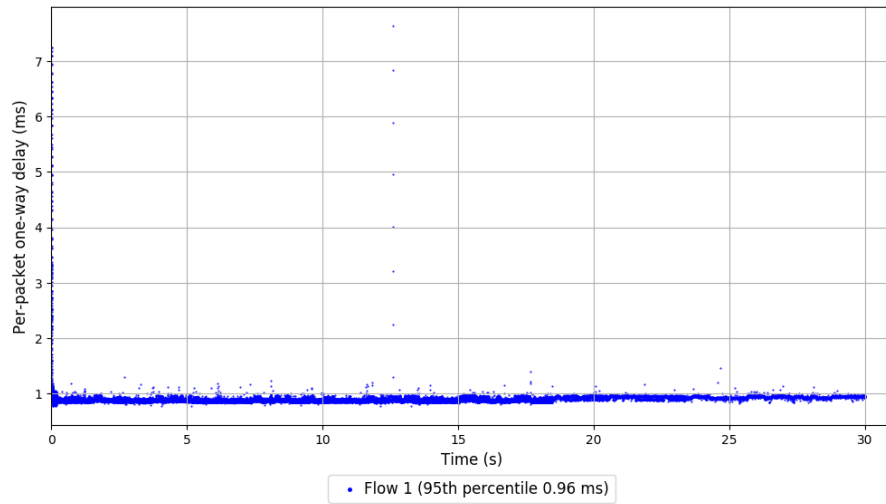
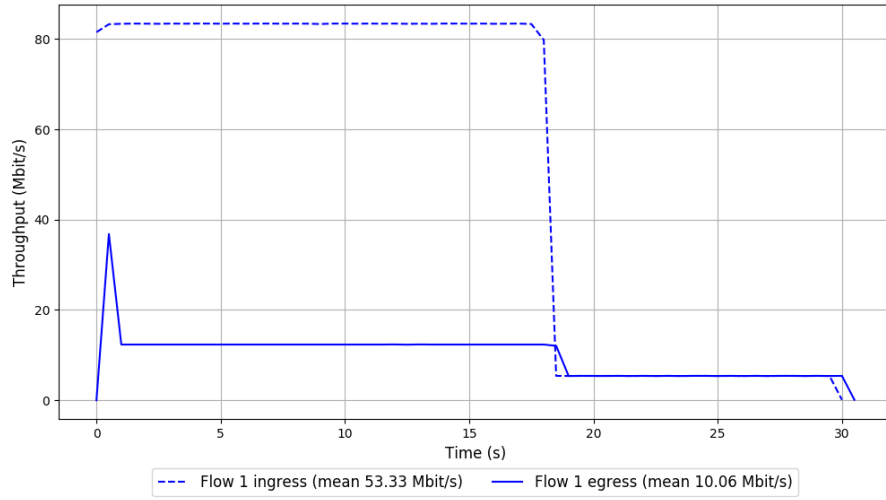
-- Flow 1:

Average throughput: 10.06 Mbit/s

95th percentile per-packet one-way delay: 0.965 ms

Loss rate: 81.13%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-12-11 02:48:15

End at: 2019-12-11 02:48:45

Local clock offset: -3.387 ms

Remote clock offset: 0.168 ms

# Below is generated by plot.py at 2019-12-11 05:05:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.37 Mbit/s

95th percentile per-packet one-way delay: 2.789 ms

Loss rate: 0.00%

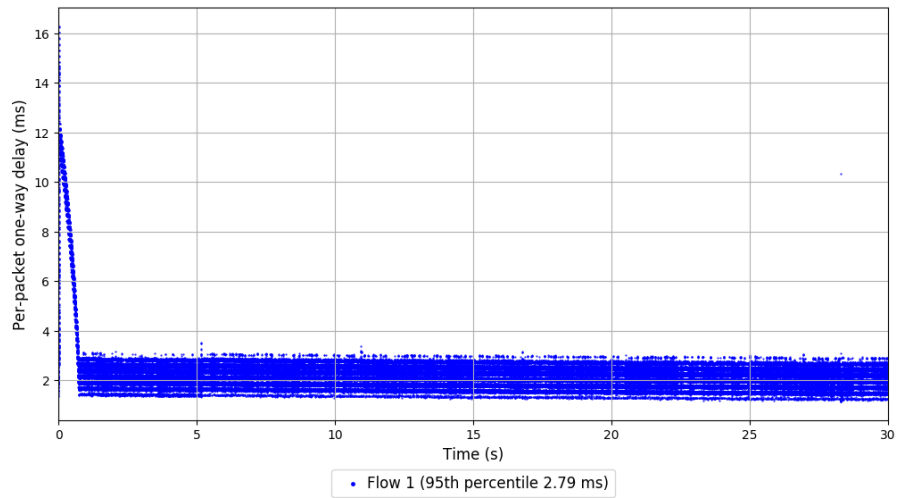
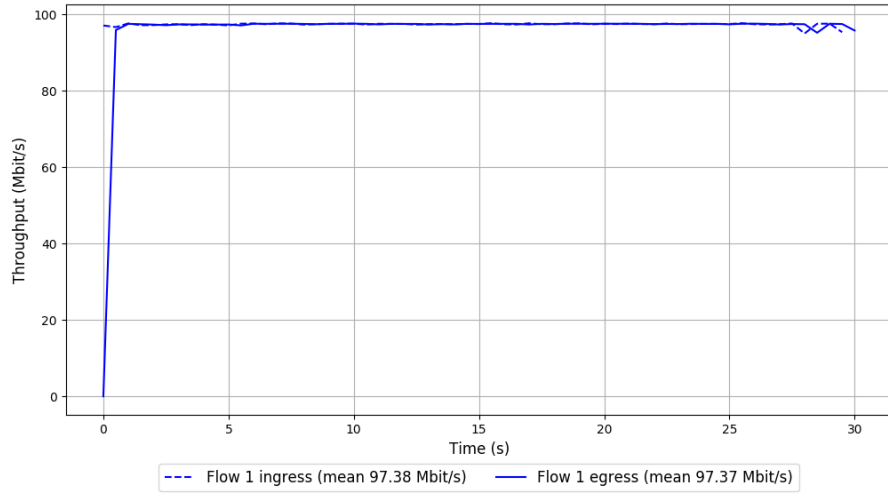
-- Flow 1:

Average throughput: 97.37 Mbit/s

95th percentile per-packet one-way delay: 2.789 ms

Loss rate: 0.00%

### Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-12-11 03:14:57

End at: 2019-12-11 03:15:27

Local clock offset: -3.154 ms

Remote clock offset: 0.187 ms

# Below is generated by plot.py at 2019-12-11 05:05:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.33 Mbit/s

95th percentile per-packet one-way delay: 3.916 ms

Loss rate: 0.00%

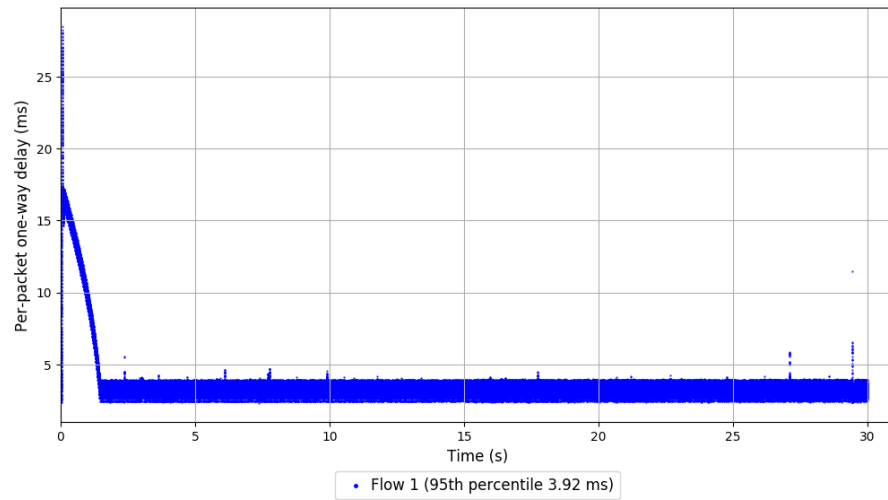
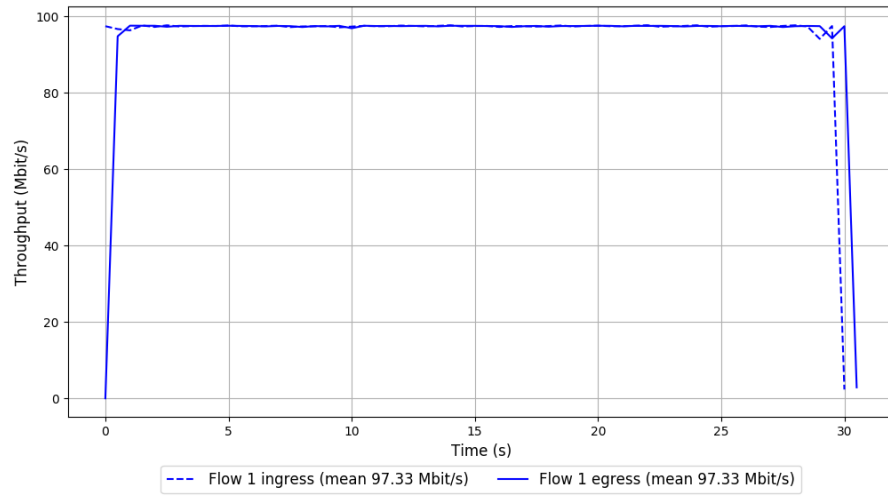
-- Flow 1:

Average throughput: 97.33 Mbit/s

95th percentile per-packet one-way delay: 3.916 ms

Loss rate: 0.00%

## Run 2: Report of TCP Vegas — Data Link





Run 3: Statistics of TCP Vegas

Start at: 2019-12-11 03:41:40

End at: 2019-12-11 03:42:10

Local clock offset: -1.31 ms

Remote clock offset: 0.416 ms

# Below is generated by plot.py at 2019-12-11 05:05:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.33 Mbit/s

95th percentile per-packet one-way delay: 2.873 ms

Loss rate: 0.00%

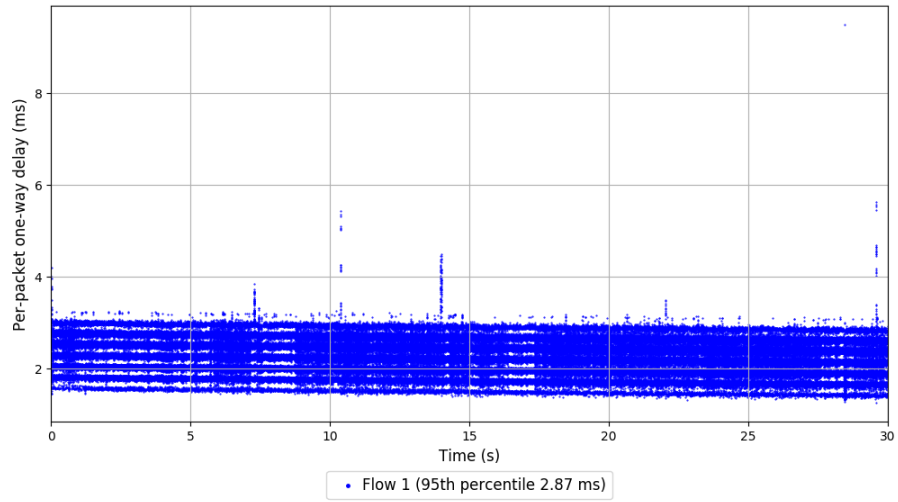
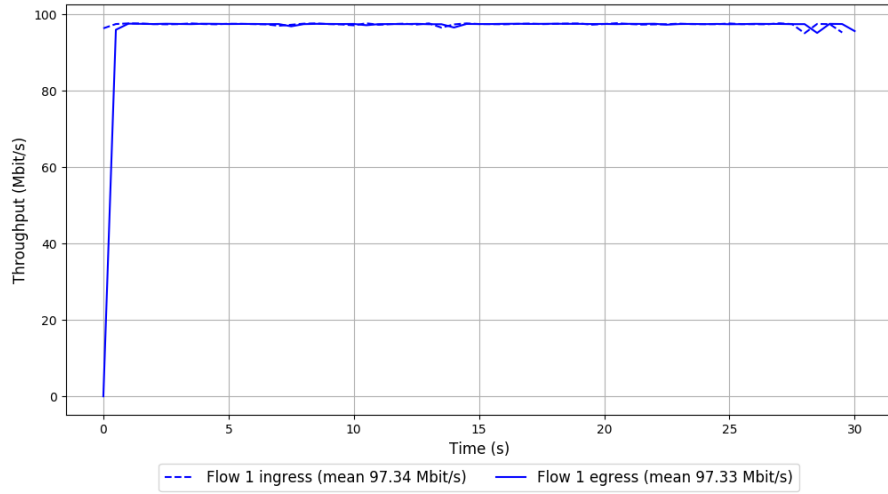
-- Flow 1:

Average throughput: 97.33 Mbit/s

95th percentile per-packet one-way delay: 2.873 ms

Loss rate: 0.00%

### Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-12-11 04:08:23

End at: 2019-12-11 04:08:53

Local clock offset: -0.832 ms

Remote clock offset: 0.33 ms

# Below is generated by plot.py at 2019-12-11 05:05:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.45 Mbit/s

95th percentile per-packet one-way delay: 2.100 ms

Loss rate: 0.00%

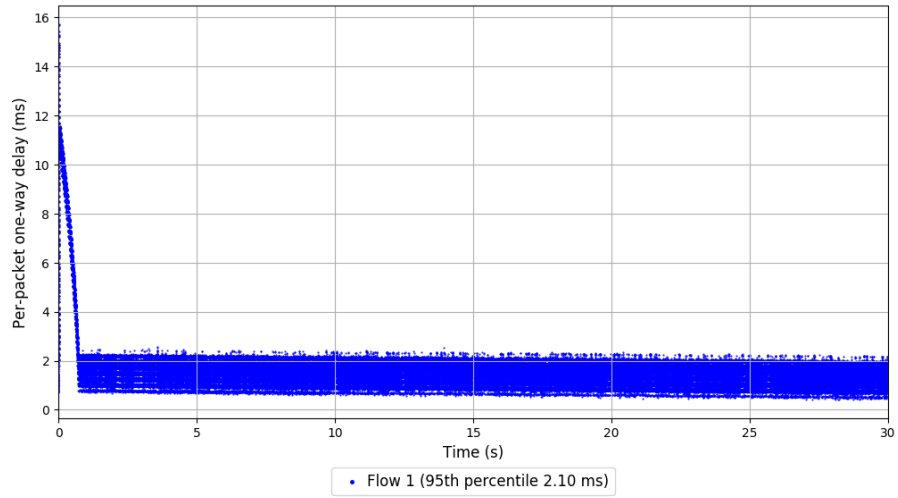
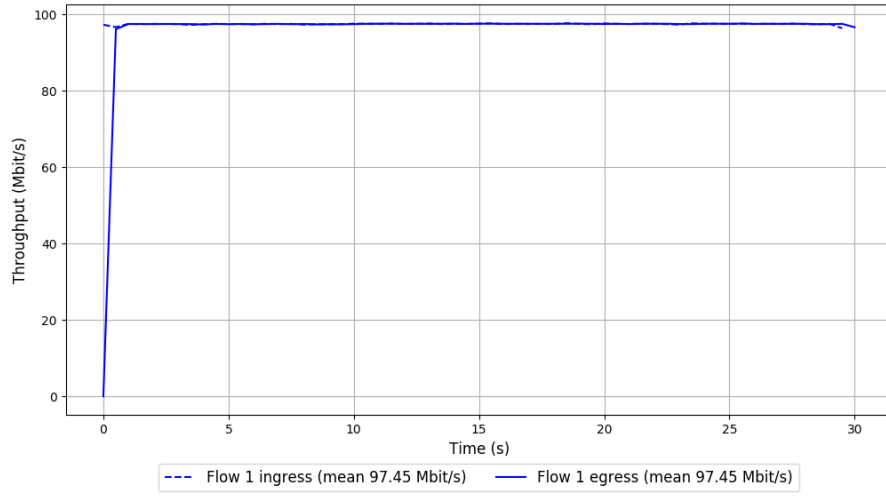
-- Flow 1:

Average throughput: 97.45 Mbit/s

95th percentile per-packet one-way delay: 2.100 ms

Loss rate: 0.00%

### Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-12-11 04:35:05

End at: 2019-12-11 04:35:35

Local clock offset: -5.455 ms

Remote clock offset: 0.264 ms

# Below is generated by plot.py at 2019-12-11 05:05:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.24 Mbit/s

95th percentile per-packet one-way delay: 3.118 ms

Loss rate: 0.00%

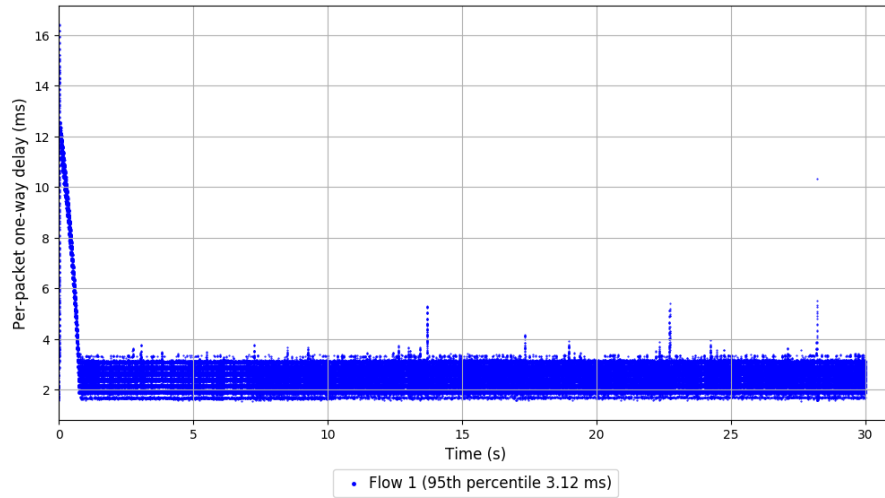
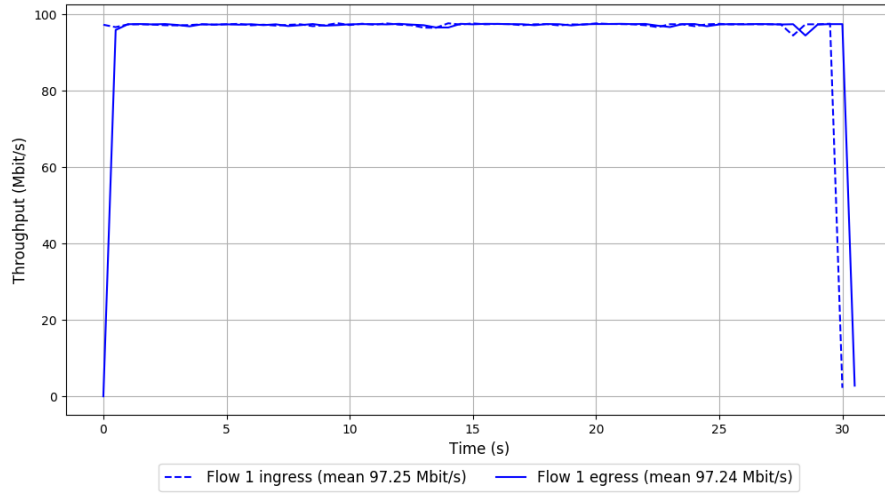
-- Flow 1:

Average throughput: 97.24 Mbit/s

95th percentile per-packet one-way delay: 3.118 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-12-11 03:01:43

End at: 2019-12-11 03:02:13

Local clock offset: -4.525 ms

Remote clock offset: 0.081 ms

# Below is generated by plot.py at 2019-12-11 05:05:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 36.85 Mbit/s

95th percentile per-packet one-way delay: 6.159 ms

Loss rate: 1.80%

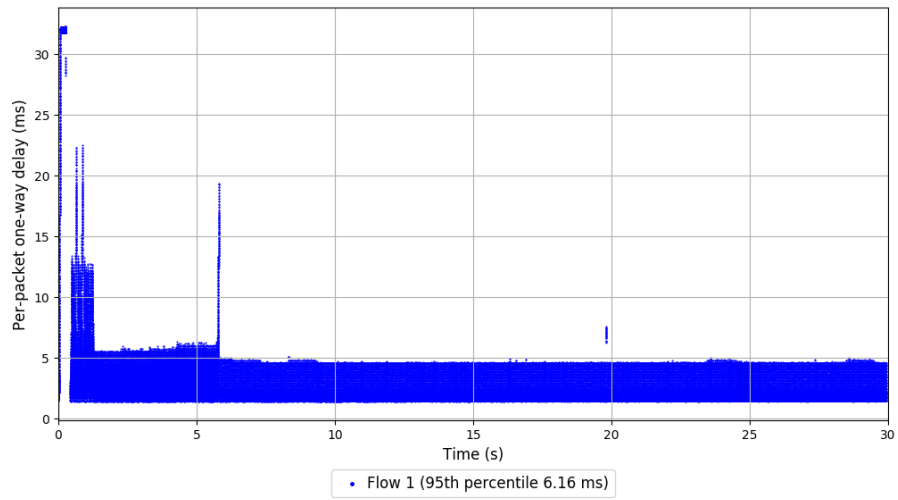
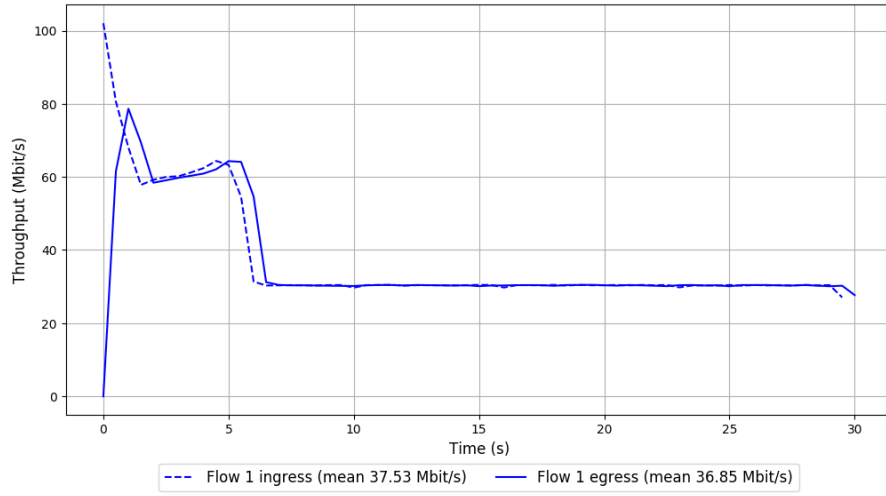
-- Flow 1:

Average throughput: 36.85 Mbit/s

95th percentile per-packet one-way delay: 6.159 ms

Loss rate: 1.80%

### Run 1: Report of Verus — Data Link





Run 2: Statistics of Verus

Start at: 2019-12-11 03:28:25

End at: 2019-12-11 03:28:55

Local clock offset: -2.014 ms

Remote clock offset: 0.281 ms

# Below is generated by plot.py at 2019-12-11 05:05:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 70.26 Mbit/s

95th percentile per-packet one-way delay: 10.889 ms

Loss rate: 0.96%

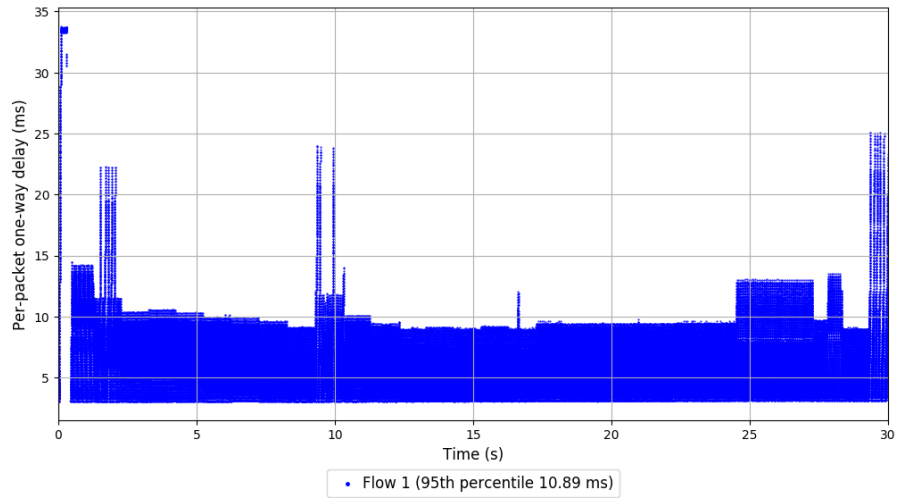
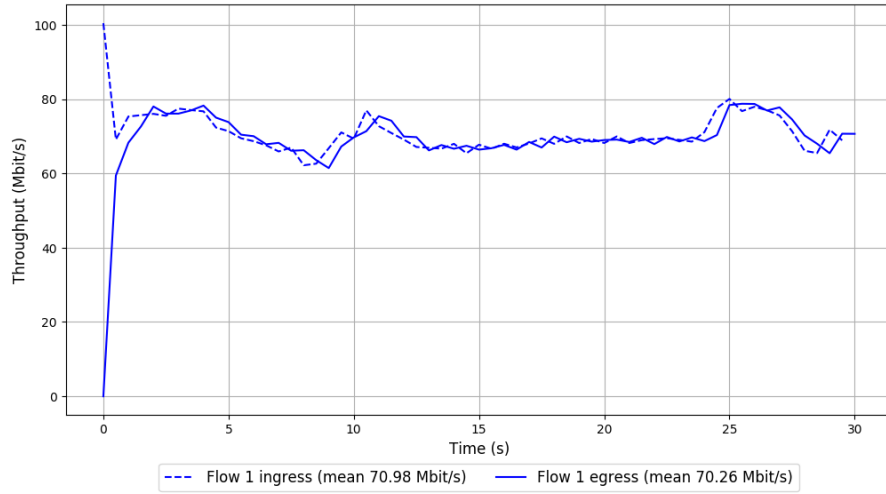
-- Flow 1:

Average throughput: 70.26 Mbit/s

95th percentile per-packet one-way delay: 10.889 ms

Loss rate: 0.96%

## Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-12-11 03:55:08

End at: 2019-12-11 03:55:38

Local clock offset: -2.094 ms

Remote clock offset: 0.417 ms

# Below is generated by plot.py at 2019-12-11 05:05:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 72.42 Mbit/s

95th percentile per-packet one-way delay: 9.146 ms

Loss rate: 0.92%

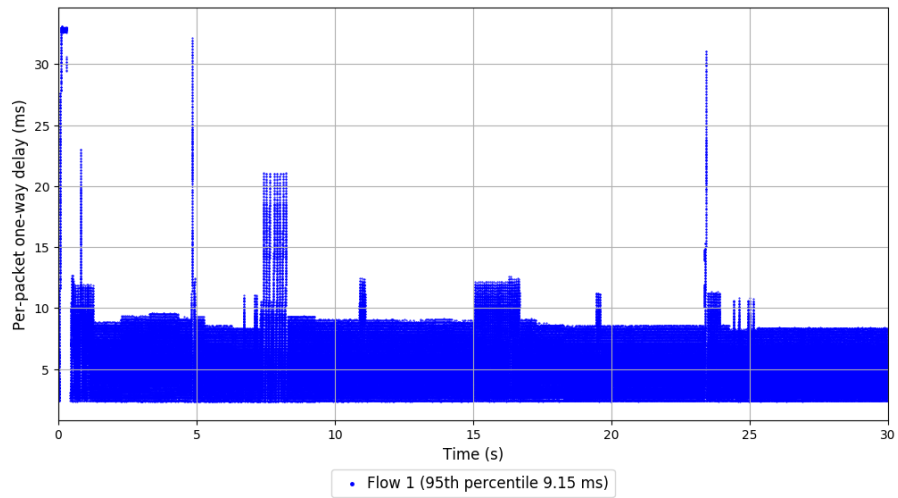
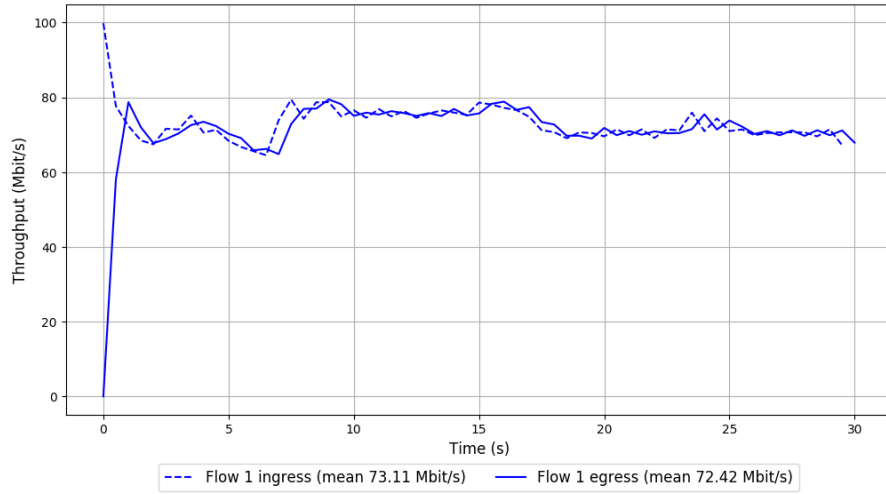
-- Flow 1:

Average throughput: 72.42 Mbit/s

95th percentile per-packet one-way delay: 9.146 ms

Loss rate: 0.92%

### Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-12-11 04:21:50

End at: 2019-12-11 04:22:20

Local clock offset: -5.275 ms

Remote clock offset: 0.314 ms

# Below is generated by plot.py at 2019-12-11 05:05:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 70.61 Mbit/s

95th percentile per-packet one-way delay: 9.591 ms

Loss rate: 0.95%

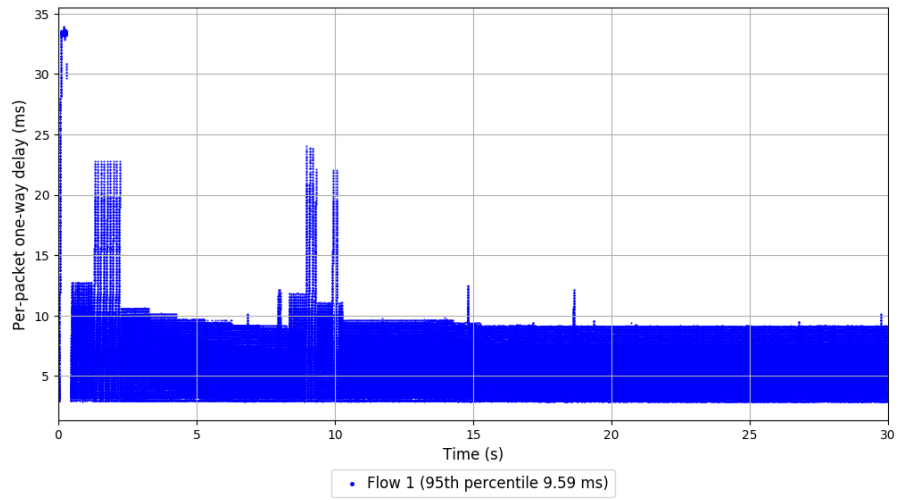
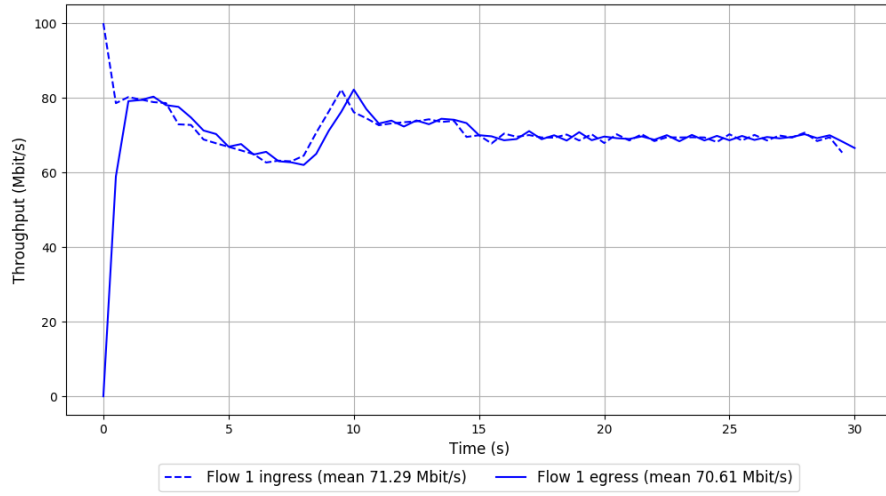
-- Flow 1:

Average throughput: 70.61 Mbit/s

95th percentile per-packet one-way delay: 9.591 ms

Loss rate: 0.95%

### Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-12-11 04:48:32

End at: 2019-12-11 04:49:02

Local clock offset: -5.546 ms

Remote clock offset: 0.237 ms

# Below is generated by plot.py at 2019-12-11 05:06:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 77.27 Mbit/s

95th percentile per-packet one-way delay: 9.262 ms

Loss rate: 0.88%

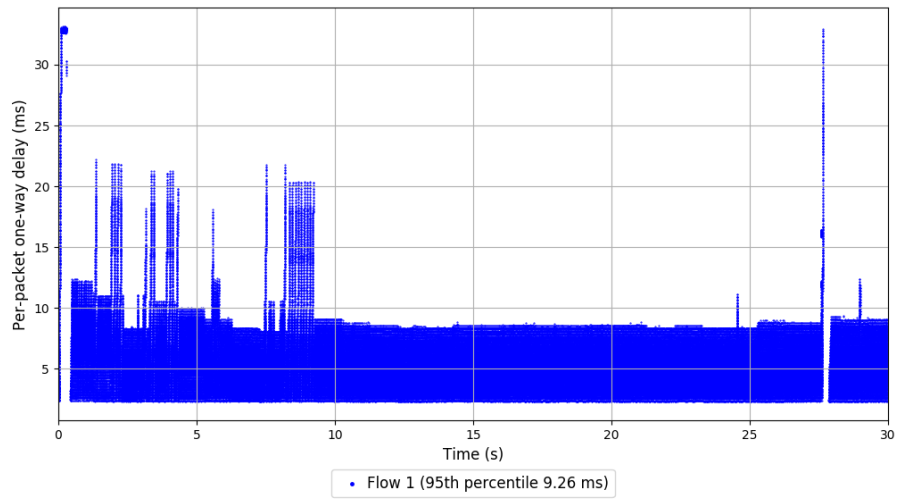
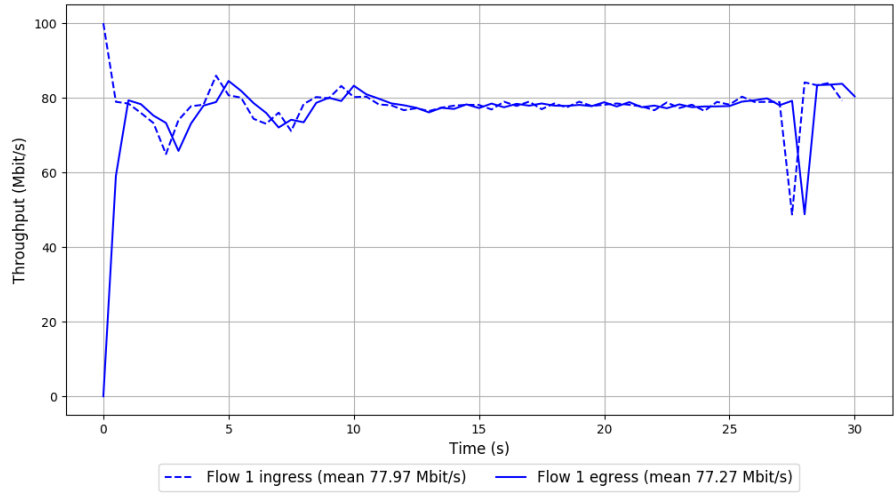
-- Flow 1:

Average throughput: 77.27 Mbit/s

95th percentile per-packet one-way delay: 9.262 ms

Loss rate: 0.88%

Run 5: Report of Verus — Data Link





Run 1: Statistics of PCC-Vivace

Start at: 2019-12-11 02:56:05

End at: 2019-12-11 02:56:35

Local clock offset: -2.275 ms

Remote clock offset: 0.116 ms

# Below is generated by plot.py at 2019-12-11 05:06:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.71 Mbit/s

95th percentile per-packet one-way delay: 2.220 ms

Loss rate: 0.00%

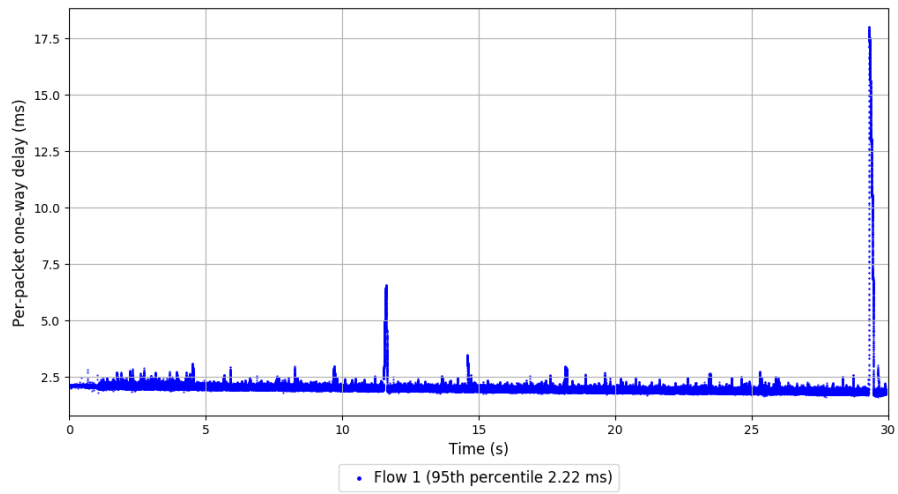
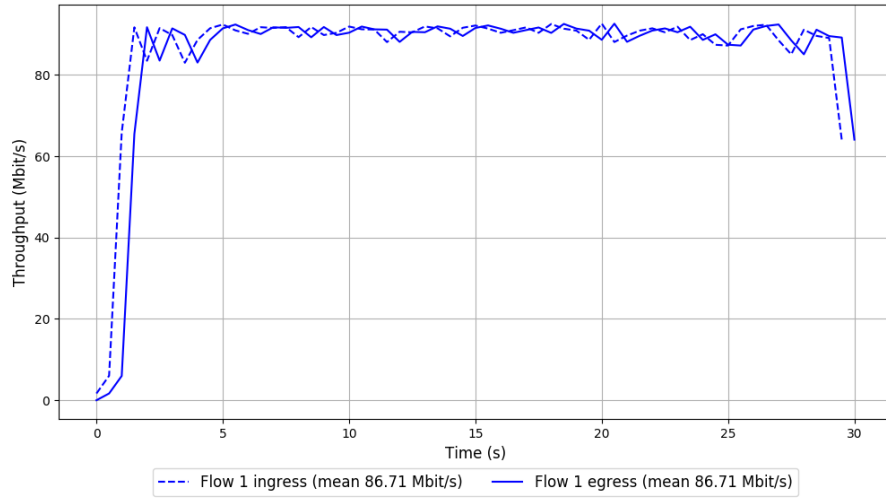
-- Flow 1:

Average throughput: 86.71 Mbit/s

95th percentile per-packet one-way delay: 2.220 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-12-11 03:22:47

End at: 2019-12-11 03:23:17

Local clock offset: -3.004 ms

Remote clock offset: 0.27 ms

# Below is generated by plot.py at 2019-12-11 05:06:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.37 Mbit/s

95th percentile per-packet one-way delay: 3.447 ms

Loss rate: 0.00%

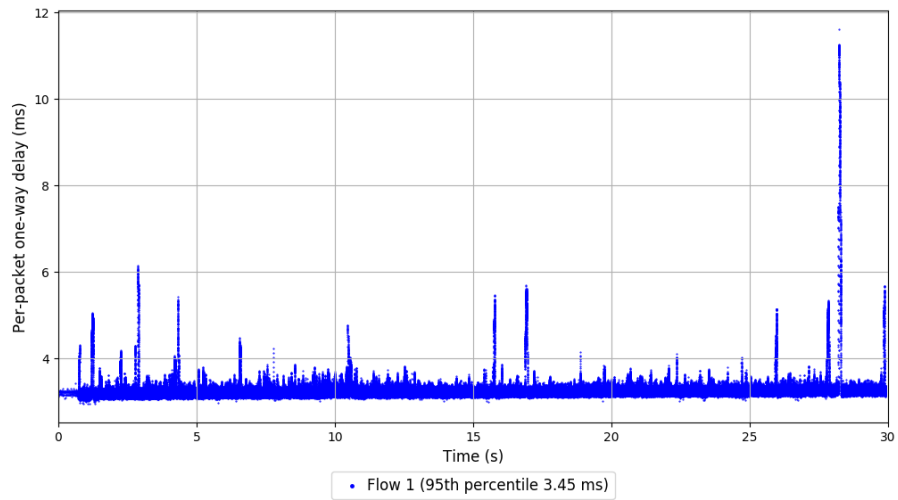
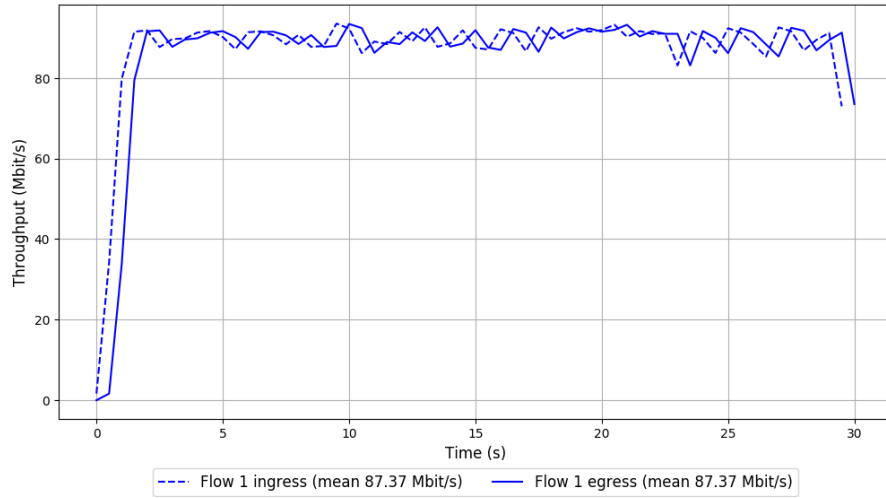
-- Flow 1:

Average throughput: 87.37 Mbit/s

95th percentile per-packet one-way delay: 3.447 ms

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-12-11 03:49:30

End at: 2019-12-11 03:50:00

Local clock offset: -2.017 ms

Remote clock offset: 0.385 ms

# Below is generated by plot.py at 2019-12-11 05:06:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.87 Mbit/s

95th percentile per-packet one-way delay: 1.014 ms

Loss rate: 0.00%

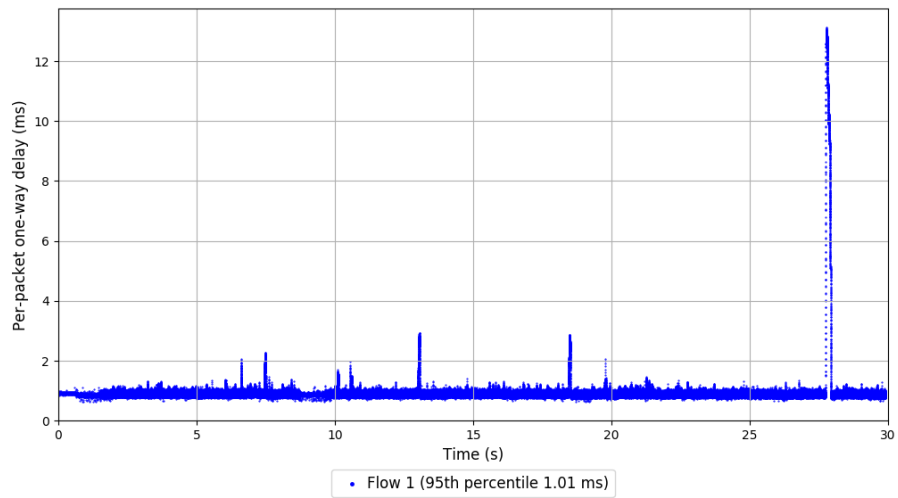
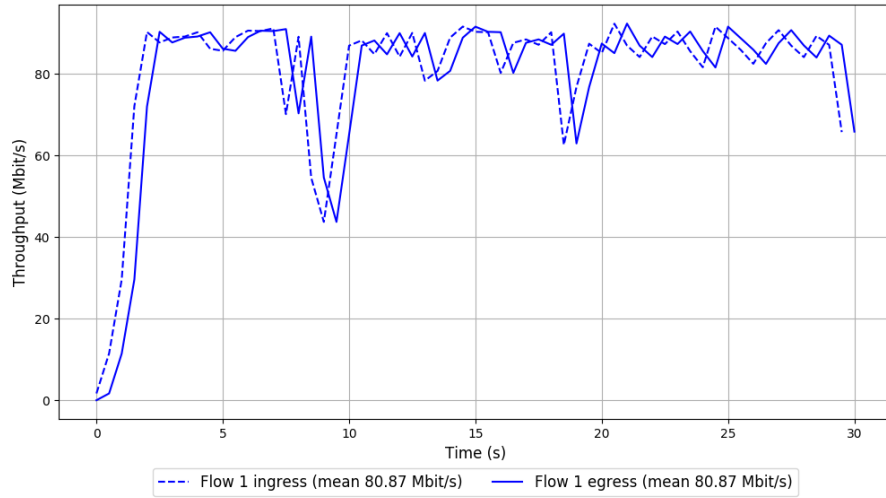
-- Flow 1:

Average throughput: 80.87 Mbit/s

95th percentile per-packet one-way delay: 1.014 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-12-11 04:16:12

End at: 2019-12-11 04:16:42

Local clock offset: -3.769 ms

Remote clock offset: 0.408 ms

# Below is generated by plot.py at 2019-12-11 05:06:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.24 Mbit/s

95th percentile per-packet one-way delay: 0.963 ms

Loss rate: 0.00%

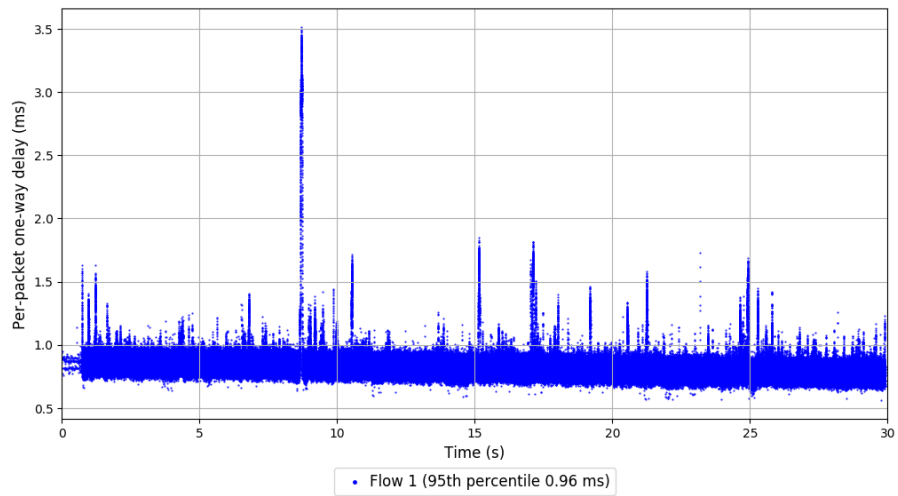
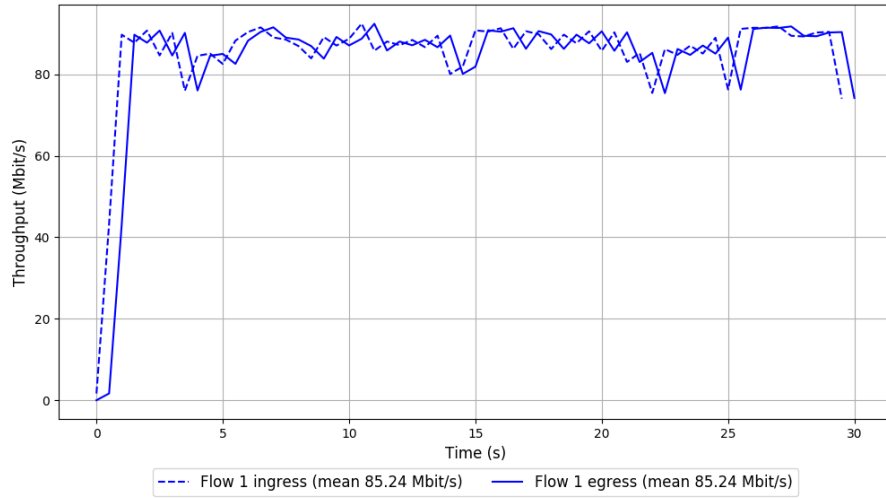
-- Flow 1:

Average throughput: 85.24 Mbit/s

95th percentile per-packet one-way delay: 0.963 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link





Run 5: Statistics of PCC-Vivace

Start at: 2019-12-11 04:42:55

End at: 2019-12-11 04:43:25

Local clock offset: -5.276 ms

Remote clock offset: 0.211 ms

# Below is generated by plot.py at 2019-12-11 05:06:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.62 Mbit/s

95th percentile per-packet one-way delay: 1.055 ms

Loss rate: 0.00%

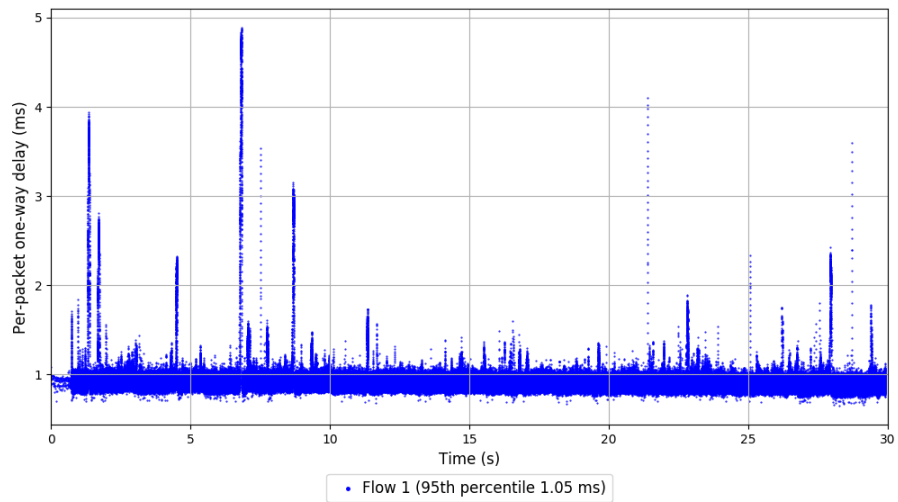
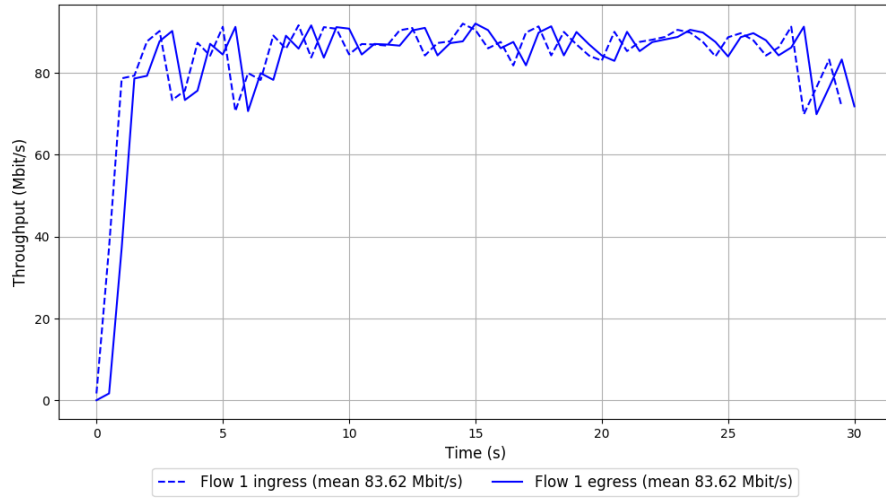
-- Flow 1:

Average throughput: 83.62 Mbit/s

95th percentile per-packet one-way delay: 1.055 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-12-11 03:00:39

End at: 2019-12-11 03:01:09

Local clock offset: -3.762 ms

Remote clock offset: 0.134 ms

# Below is generated by plot.py at 2019-12-11 05:06:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 1.285 ms

Loss rate: 0.00%

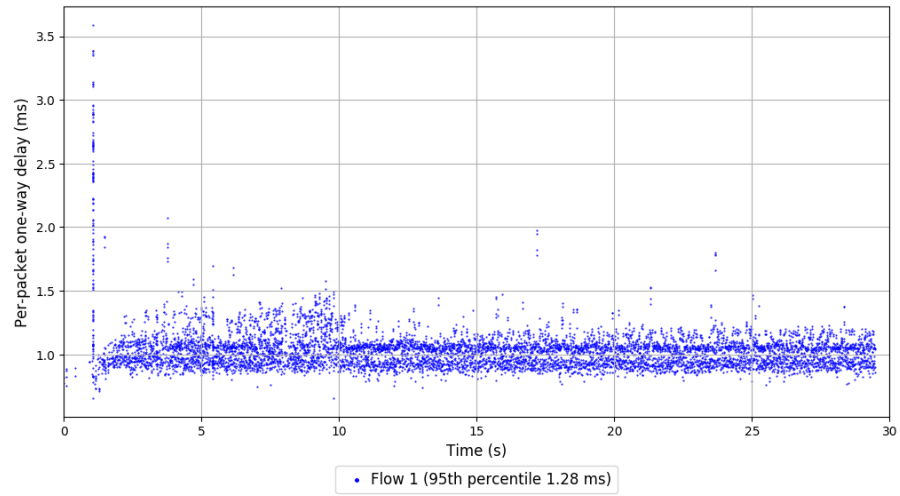
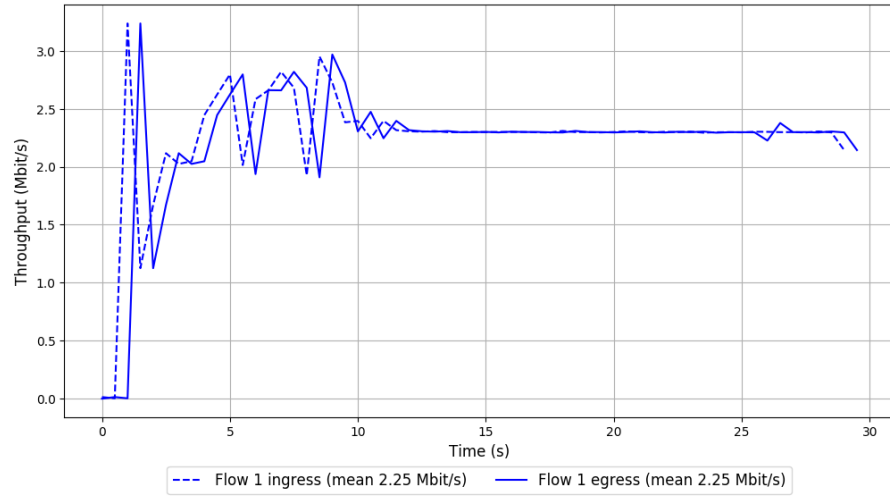
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 1.285 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-12-11 03:27:21

End at: 2019-12-11 03:27:51

Local clock offset: -1.609 ms

Remote clock offset: 0.32 ms

# Below is generated by plot.py at 2019-12-11 05:06:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 3.587 ms

Loss rate: 0.00%

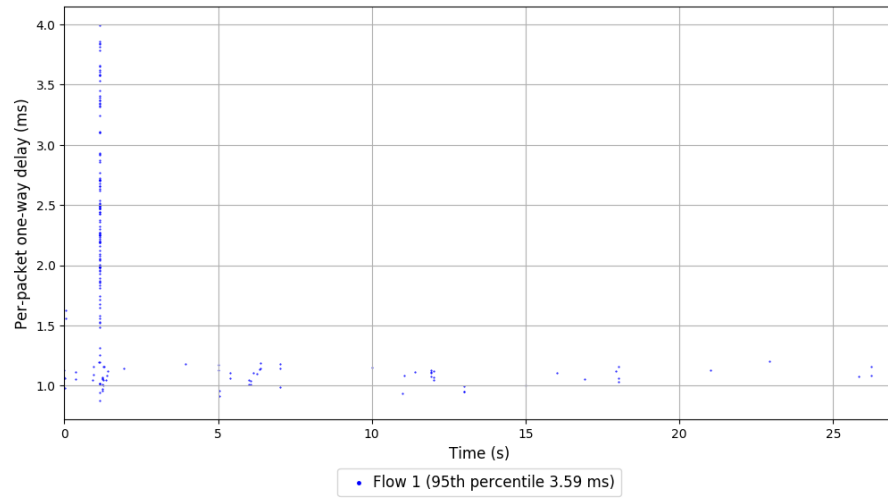
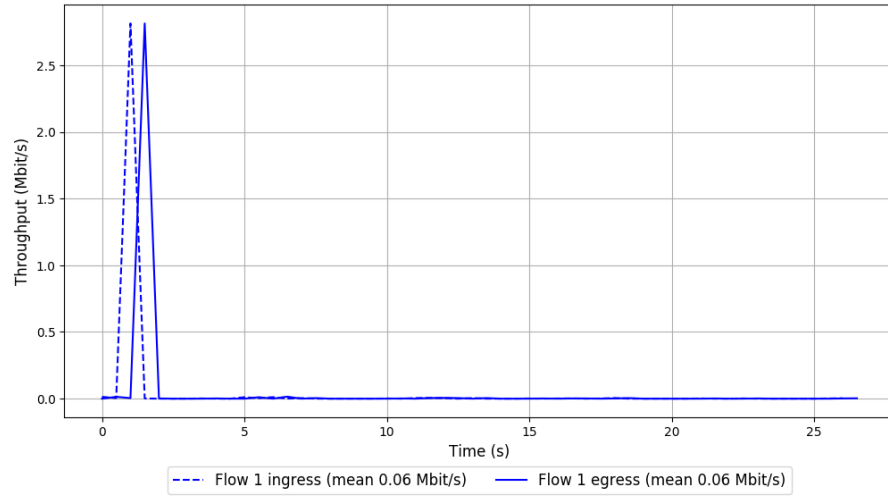
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 3.587 ms

Loss rate: 0.00%

## Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-12-11 03:54:03

End at: 2019-12-11 03:54:33

Local clock offset: -2.125 ms

Remote clock offset: 0.416 ms

# Below is generated by plot.py at 2019-12-11 05:06:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 3.033 ms

Loss rate: 0.00%

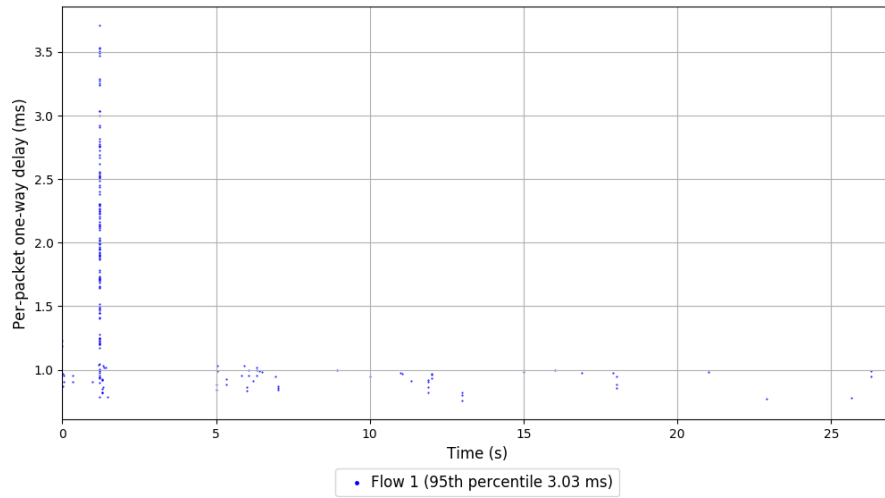
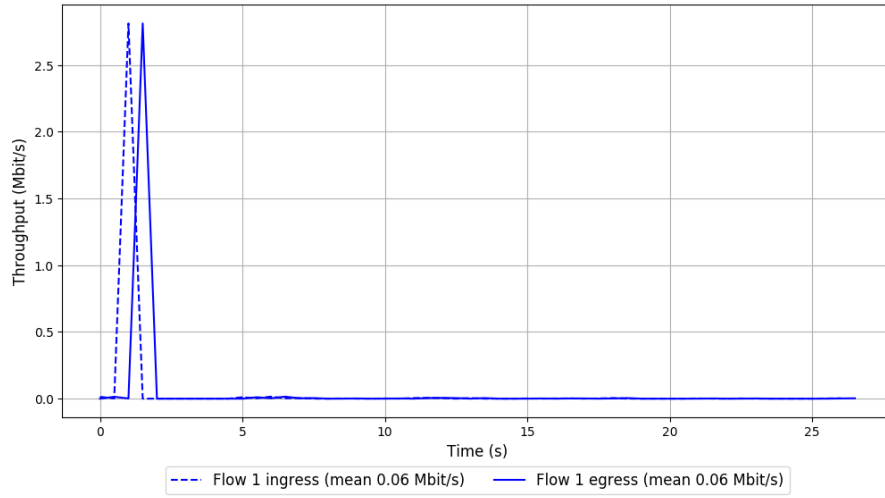
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 3.033 ms

Loss rate: 0.00%

### Run 3: Report of WebRTC media — Data Link





Run 4: Statistics of WebRTC media

Start at: 2019-12-11 04:20:46

End at: 2019-12-11 04:21:16

Local clock offset: -5.228 ms

Remote clock offset: 0.385 ms

# Below is generated by plot.py at 2019-12-11 05:06:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 4.631 ms

Loss rate: 0.00%

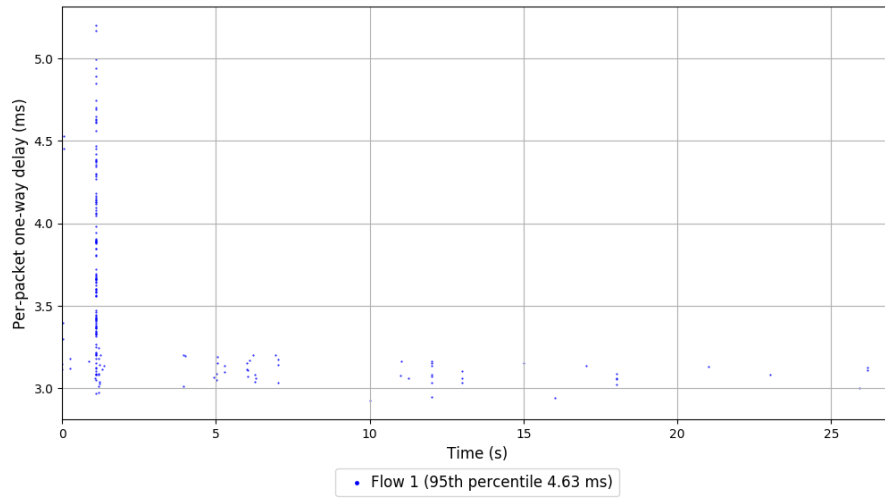
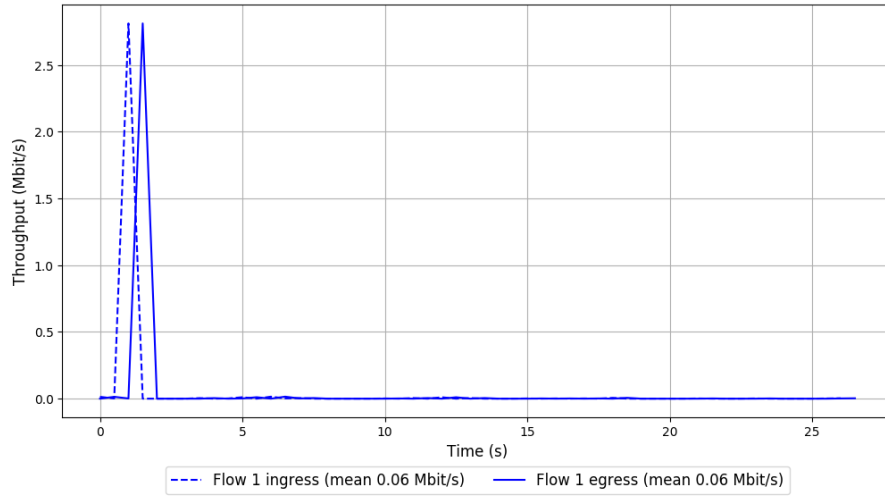
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 4.631 ms

Loss rate: 0.00%

### Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-12-11 04:47:28

End at: 2019-12-11 04:47:58

Local clock offset: -6.194 ms

Remote clock offset: 0.133 ms

# Below is generated by plot.py at 2019-12-11 05:06:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 4.610 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 4.610 ms

Loss rate: 0.00%

### Run 5: Report of WebRTC media — Data Link

