

Pantheon Report

Generated at 2019-11-24 15:46:08 (UTC).

Data path: Mexico on **em1** (*remote*) → AWS California 2 on **ens5** (*local*).

Repeated the test of 24 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

NTP offsets were measured against **time.stanford.edu** and have been applied to correct the timestamps in logs.

System info:

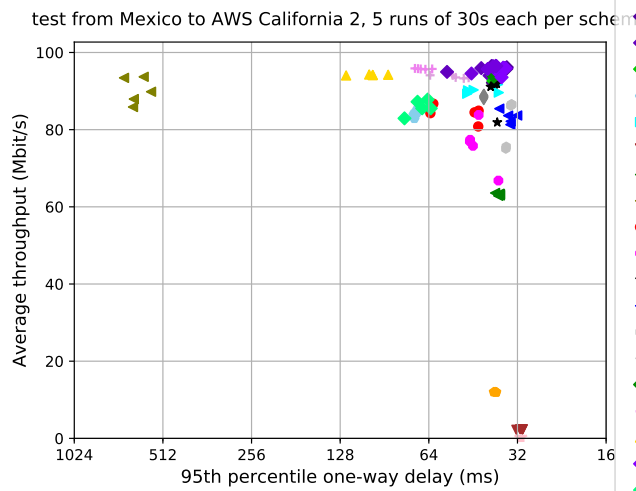
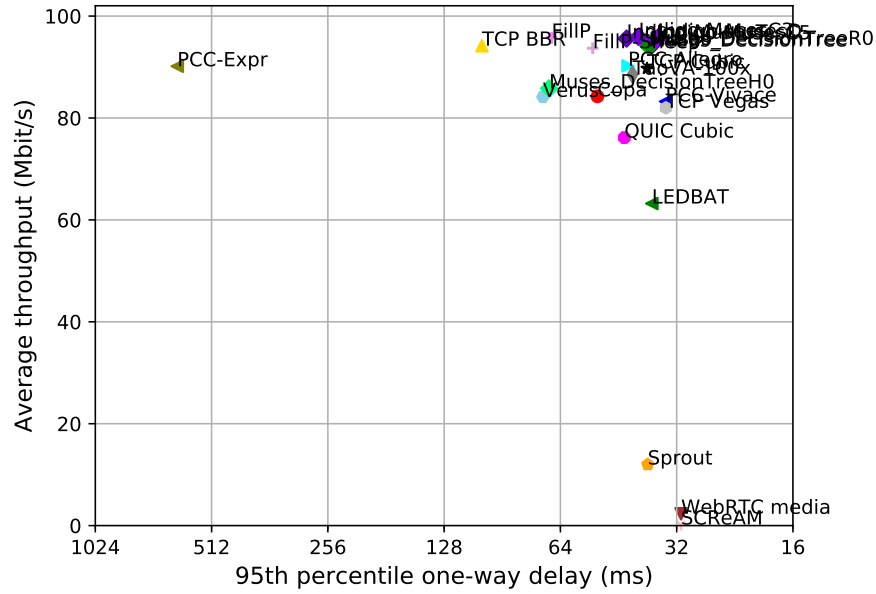
```
Linux 4.15.0-1051-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
```

third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from Mexico to AWS California 2, 5 runs of 30s each per scheme
(mean of all runs by scheme)



- FillIP-Sheep
- Indigo
- Sprout
- Indigo-MusesD
- Indigo-MusesT
- Muses_DecisionTree
- Verus
- PCC-Allegro
- WebRTC media
- LEDBAT
- PCC-Expr
- Copa
- QUIC Cubic
- TCP Cubic
- PCC-Vivace
- TCP Vegas
- TaoVA-100x
- Muses_DecisionTreeR0
- FillIP
- TCP BBR
- Indigo-MusesC5
- Muses_DecisionTreeH0
- SReAM
- Indigo-MusesC3

scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	94.18	102.13	2.32
Copa	5	84.25	51.33	0.20
TCP Cubic	5	89.72	38.19	0.24
FillP	5	95.75	67.47	0.73
FillP-Sheep	5	93.69	52.78	0.30
Indigo	5	94.29	37.12	0.23
Indigo-MusesC3	5	95.91	40.14	0.24
Indigo-MusesC5	5	95.43	36.17	0.25
Indigo-MusesD	5	95.77	35.76	0.24
Indigo-MusesT	5	95.58	43.14	0.56
LEDBAT	5	63.21	37.11	0.23
Muses_DecisionTree	5	94.02	37.82	0.23
Muses_DecisionTreeH0	5	85.80	68.48	0.27
Muses_DecisionTreeR0	5	94.35	37.63	0.24
PCC-Allegro	5	90.22	42.76	0.28
PCC-Expr	5	90.15	628.18	15.88
QUIC Cubic	5	76.15	43.72	0.29
SCReAM	5	0.21	31.19	0.23
Sprout	5	11.99	38.03	0.22
TaoVA-100x	5	88.51	41.63	0.22
TCP Vegas	5	82.00	34.14	0.26
Verus	5	84.14	71.05	0.51
PCC-Vivace	5	83.24	34.20	0.26
WebRTC media	5	2.32	31.18	0.24

Run 1: Statistics of TCP BBR

Start at: 2019-11-24 11:56:31

End at: 2019-11-24 11:57:01

Local clock offset: 2.881 ms

Remote clock offset: 4.246 ms

Below is generated by plot.py at 2019-11-24 15:31:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.29 Mbit/s

95th percentile per-packet one-way delay: 102.008 ms

Loss rate: 1.71%

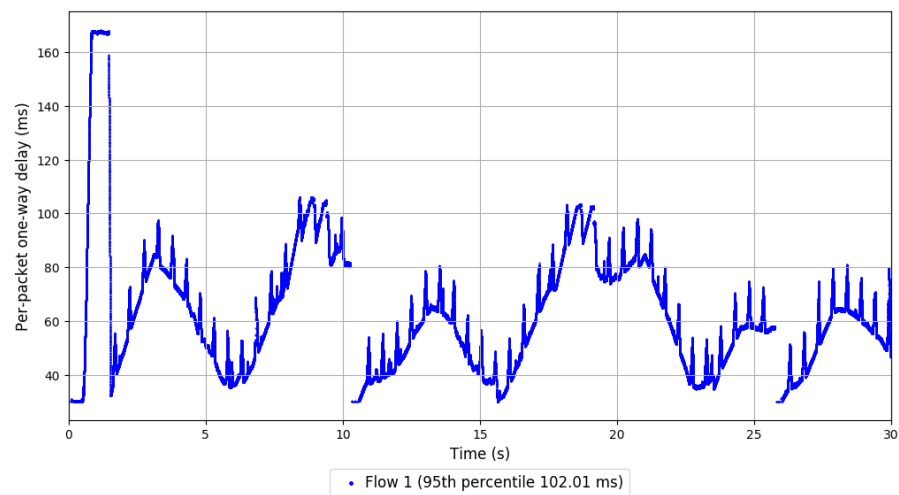
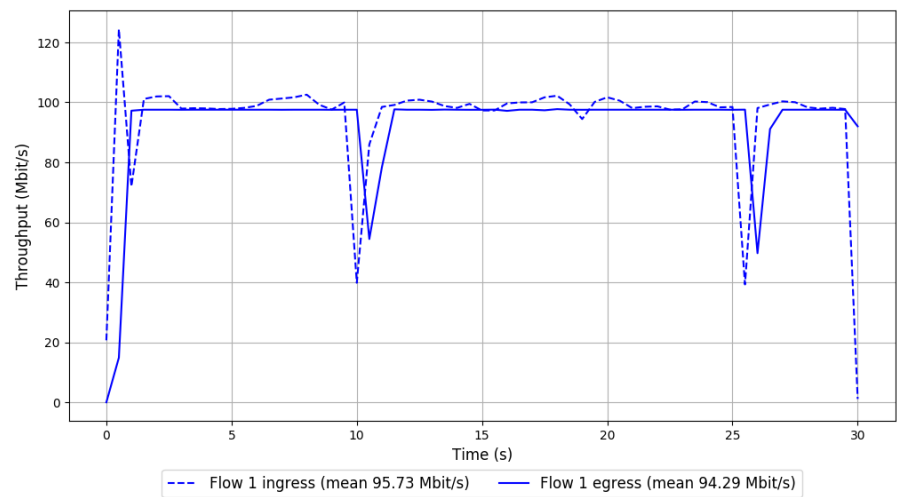
-- Flow 1:

Average throughput: 94.29 Mbit/s

95th percentile per-packet one-way delay: 102.008 ms

Loss rate: 1.71%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-11-24 12:33:19

End at: 2019-11-24 12:33:49

Local clock offset: 3.113 ms

Remote clock offset: 4.65 ms

Below is generated by plot.py at 2019-11-24 15:31:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.17 Mbit/s

95th percentile per-packet one-way delay: 99.244 ms

Loss rate: 2.24%

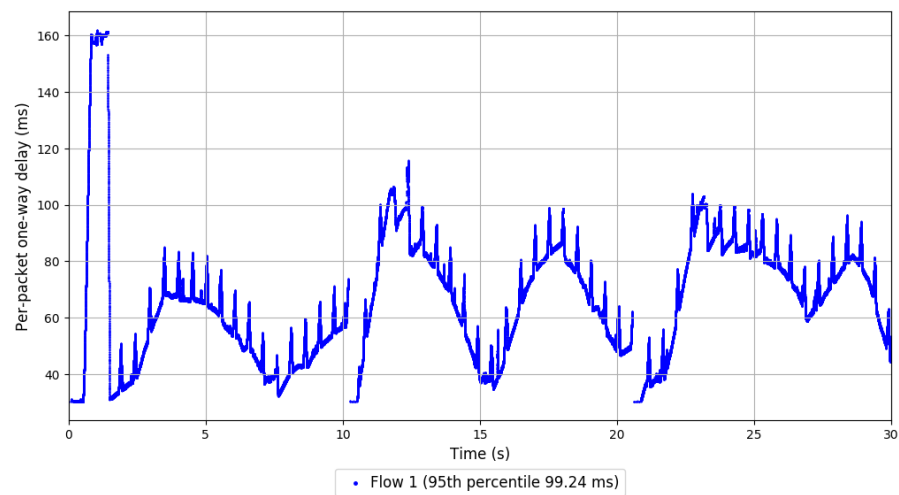
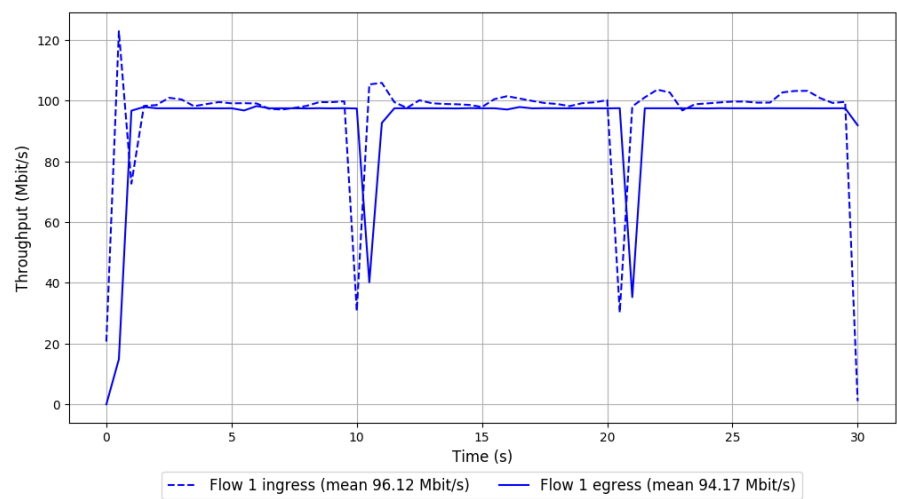
-- Flow 1:

Average throughput: 94.17 Mbit/s

95th percentile per-packet one-way delay: 99.244 ms

Loss rate: 2.24%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-11-24 13:14:19

End at: 2019-11-24 13:14:49

Local clock offset: 2.949 ms

Remote clock offset: 4.439 ms

Below is generated by plot.py at 2019-11-24 15:31:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.17 Mbit/s

95th percentile per-packet one-way delay: 99.244 ms

Loss rate: 2.38%

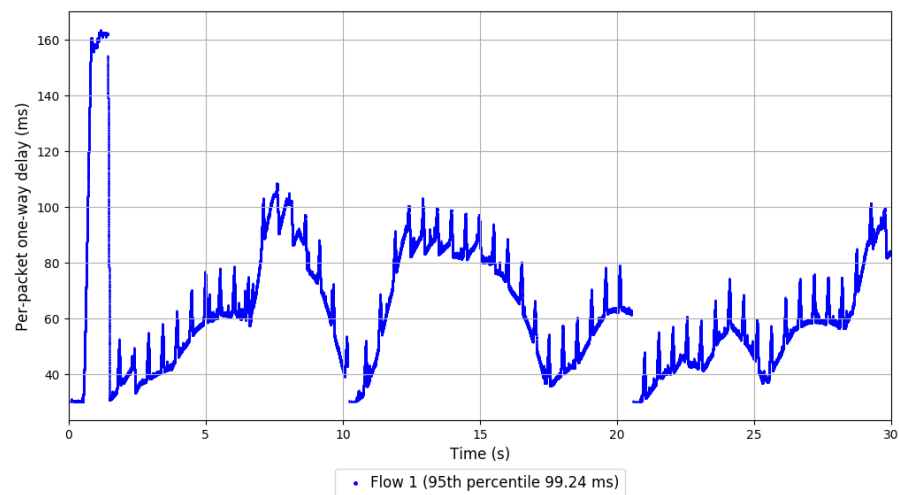
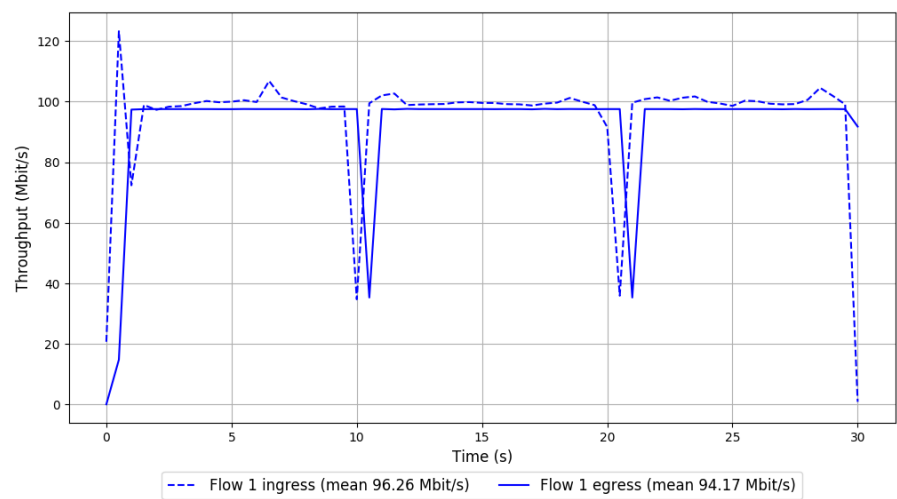
-- Flow 1:

Average throughput: 94.17 Mbit/s

95th percentile per-packet one-way delay: 99.244 ms

Loss rate: 2.38%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-11-24 13:58:15

End at: 2019-11-24 13:58:45

Local clock offset: 2.487 ms

Remote clock offset: 3.6 ms

Below is generated by plot.py at 2019-11-24 15:31:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.23 Mbit/s

95th percentile per-packet one-way delay: 87.954 ms

Loss rate: 2.38%

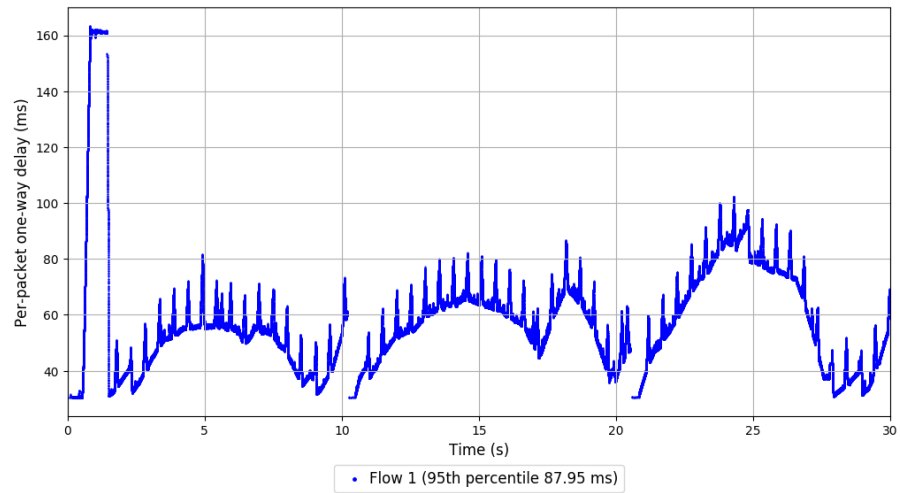
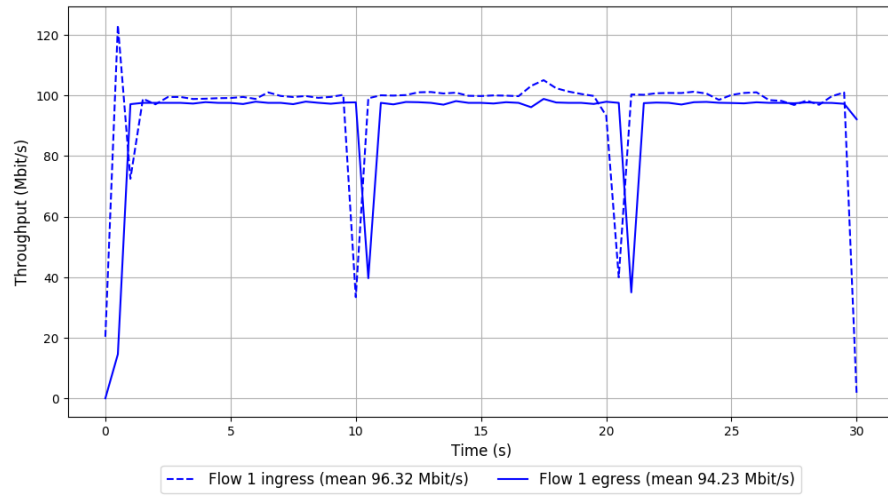
-- Flow 1:

Average throughput: 94.23 Mbit/s

95th percentile per-packet one-way delay: 87.954 ms

Loss rate: 2.38%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-11-24 14:55:16

End at: 2019-11-24 14:55:46

Local clock offset: 3.375 ms

Remote clock offset: 4.034 ms

Below is generated by plot.py at 2019-11-24 15:31:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.05 Mbit/s

95th percentile per-packet one-way delay: 122.197 ms

Loss rate: 2.87%

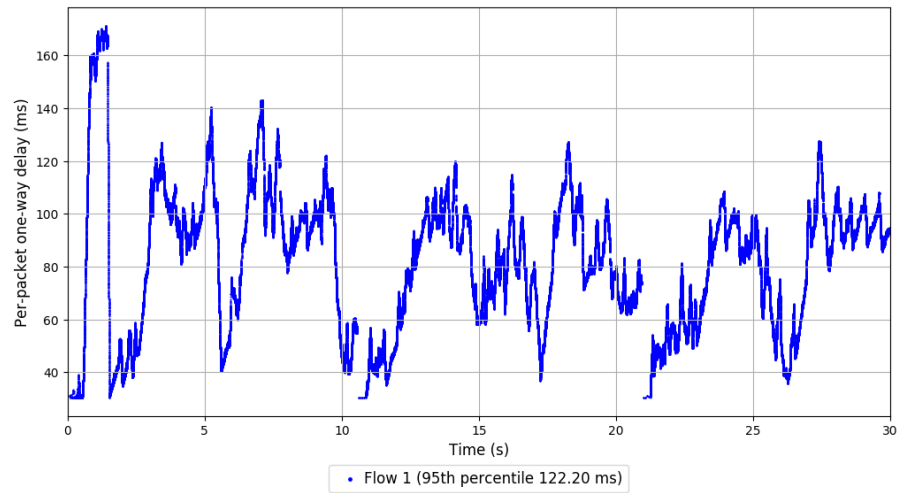
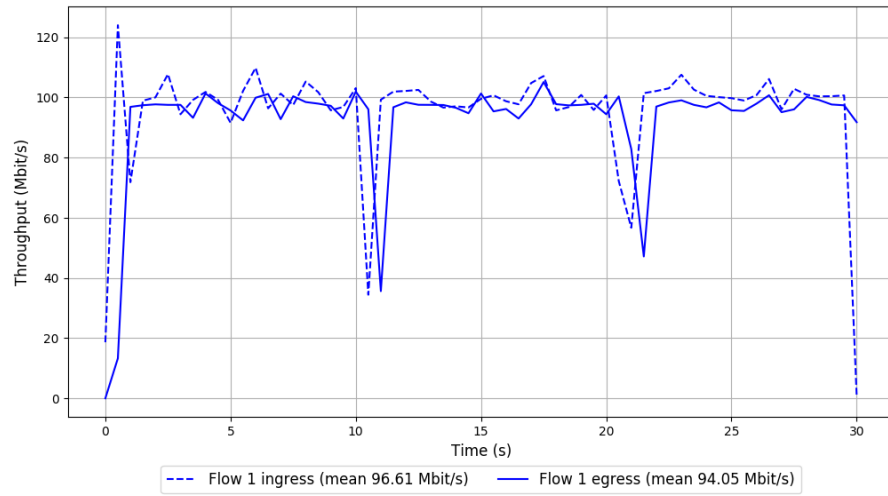
-- Flow 1:

Average throughput: 94.05 Mbit/s

95th percentile per-packet one-way delay: 122.197 ms

Loss rate: 2.87%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-11-24 12:09:36

End at: 2019-11-24 12:10:06

Local clock offset: 2.927 ms

Remote clock offset: 4.388 ms

Below is generated by plot.py at 2019-11-24 15:32:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.72 Mbit/s

95th percentile per-packet one-way delay: 61.795 ms

Loss rate: 0.12%

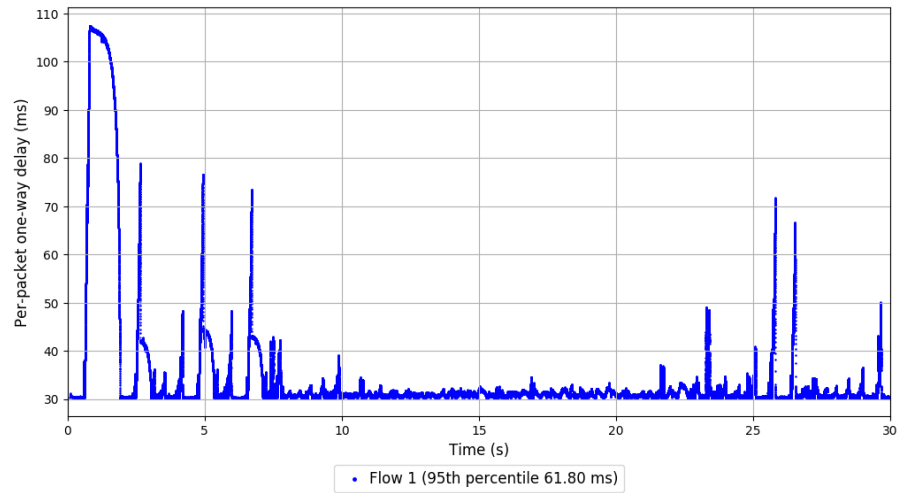
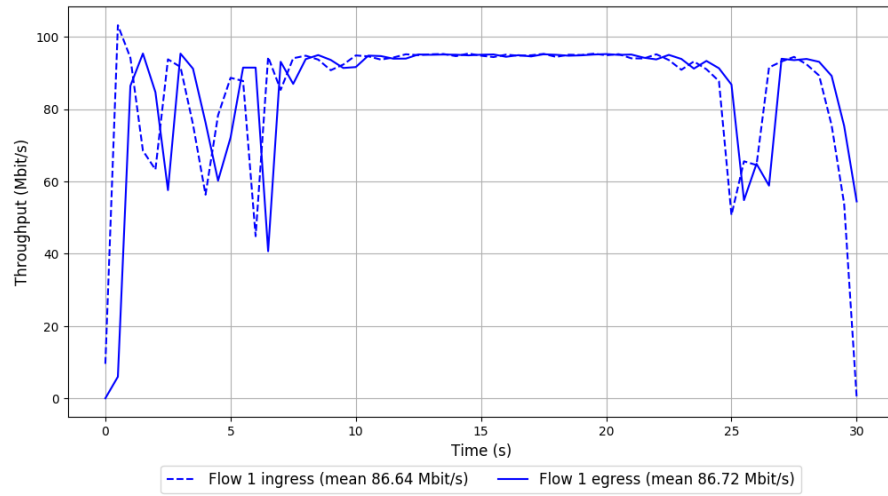
-- Flow 1:

Average throughput: 86.72 Mbit/s

95th percentile per-packet one-way delay: 61.795 ms

Loss rate: 0.12%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-11-24 12:47:54

End at: 2019-11-24 12:48:24

Local clock offset: 3.123 ms

Remote clock offset: 4.451 ms

Below is generated by plot.py at 2019-11-24 15:32:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.91 Mbit/s

95th percentile per-packet one-way delay: 43.368 ms

Loss rate: 0.25%

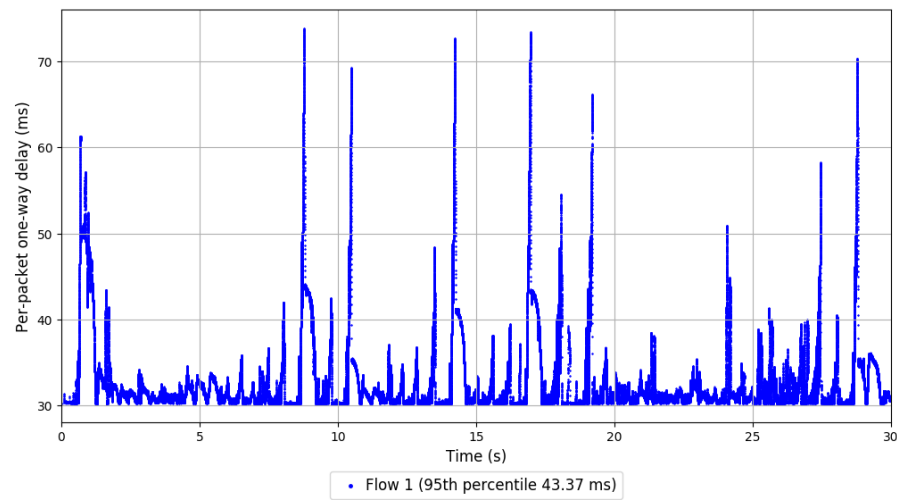
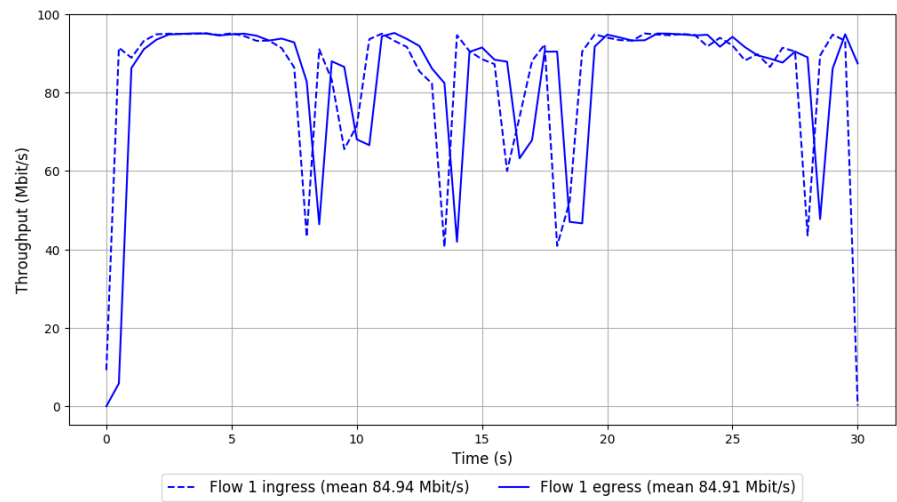
-- Flow 1:

Average throughput: 84.91 Mbit/s

95th percentile per-packet one-way delay: 43.368 ms

Loss rate: 0.25%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-11-24 13:30:12

End at: 2019-11-24 13:30:42

Local clock offset: 2.652 ms

Remote clock offset: 4.266 ms

Below is generated by plot.py at 2019-11-24 15:32:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.48 Mbit/s

95th percentile per-packet one-way delay: 44.752 ms

Loss rate: 0.12%

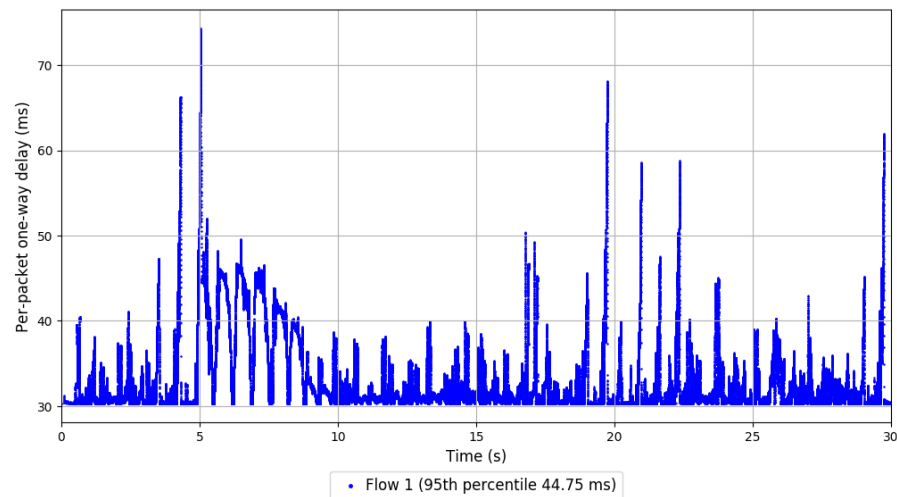
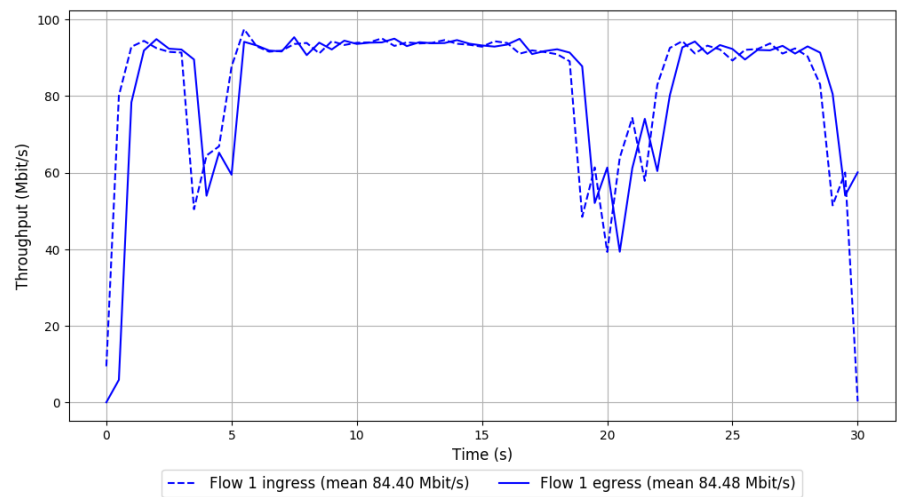
-- Flow 1:

Average throughput: 84.48 Mbit/s

95th percentile per-packet one-way delay: 44.752 ms

Loss rate: 0.12%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-11-24 14:16:42

End at: 2019-11-24 14:17:12

Local clock offset: 2.986 ms

Remote clock offset: 3.918 ms

Below is generated by plot.py at 2019-11-24 15:33:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.29 Mbit/s

95th percentile per-packet one-way delay: 63.232 ms

Loss rate: 0.25%

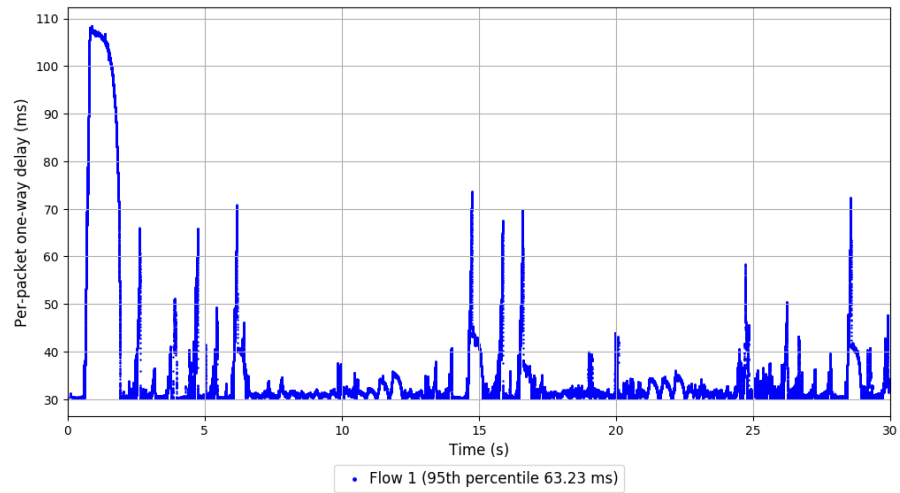
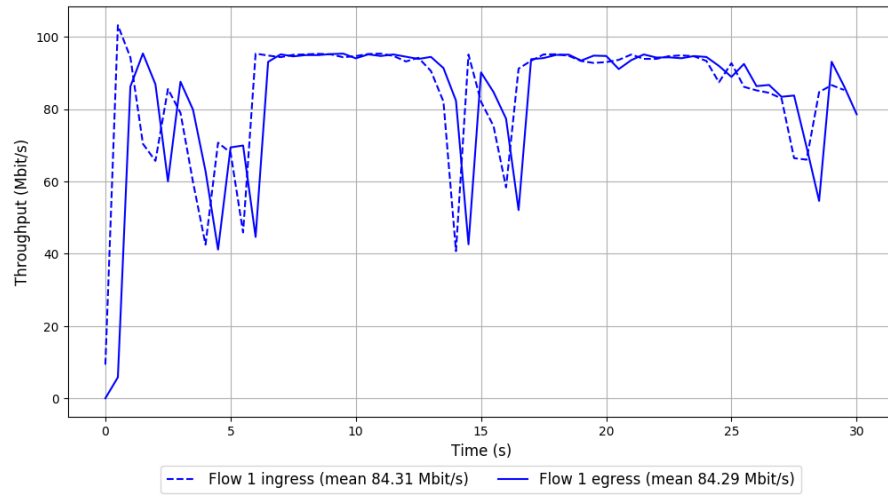
-- Flow 1:

Average throughput: 84.29 Mbit/s

95th percentile per-packet one-way delay: 63.232 ms

Loss rate: 0.25%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-11-24 15:17:12

End at: 2019-11-24 15:17:42

Local clock offset: 3.427 ms

Remote clock offset: 3.901 ms

Below is generated by plot.py at 2019-11-24 15:33:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.83 Mbit/s

95th percentile per-packet one-way delay: 43.487 ms

Loss rate: 0.27%

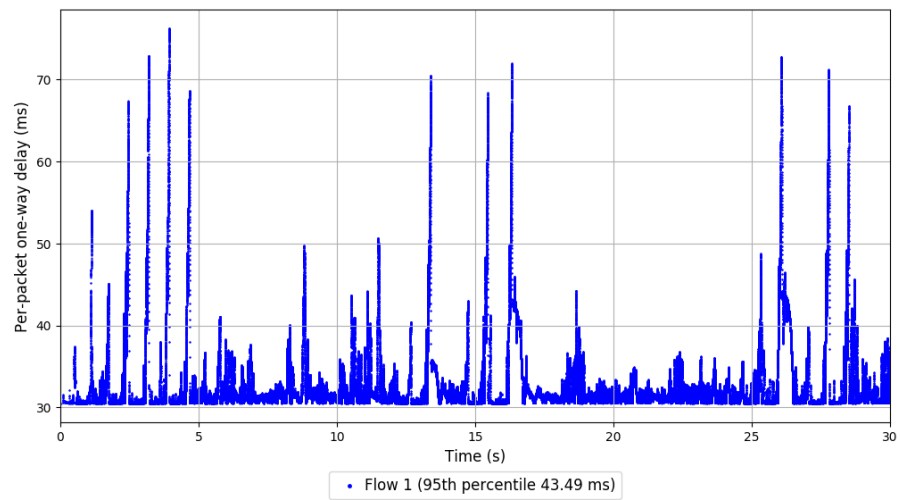
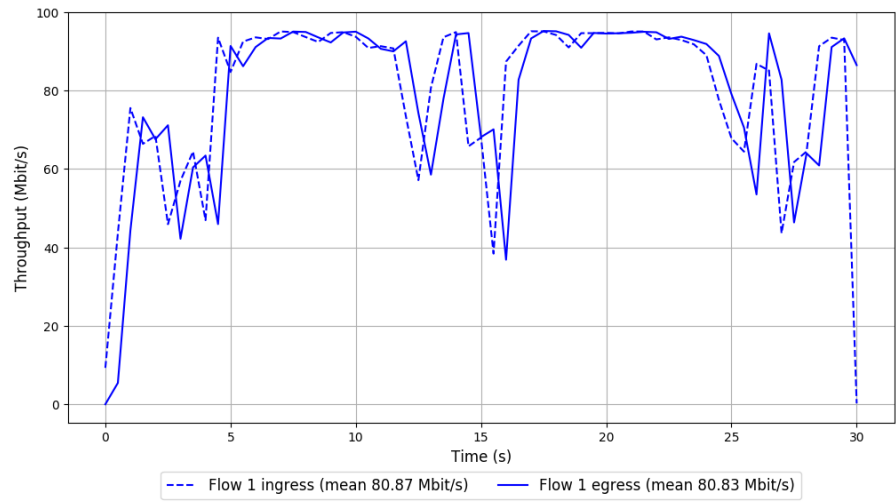
-- Flow 1:

Average throughput: 80.83 Mbit/s

95th percentile per-packet one-way delay: 43.487 ms

Loss rate: 0.27%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-11-24 12:11:15

End at: 2019-11-24 12:11:45

Local clock offset: 2.962 ms

Remote clock offset: 4.56 ms

Below is generated by plot.py at 2019-11-24 15:33:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.90 Mbit/s

95th percentile per-packet one-way delay: 37.633 ms

Loss rate: 0.26%

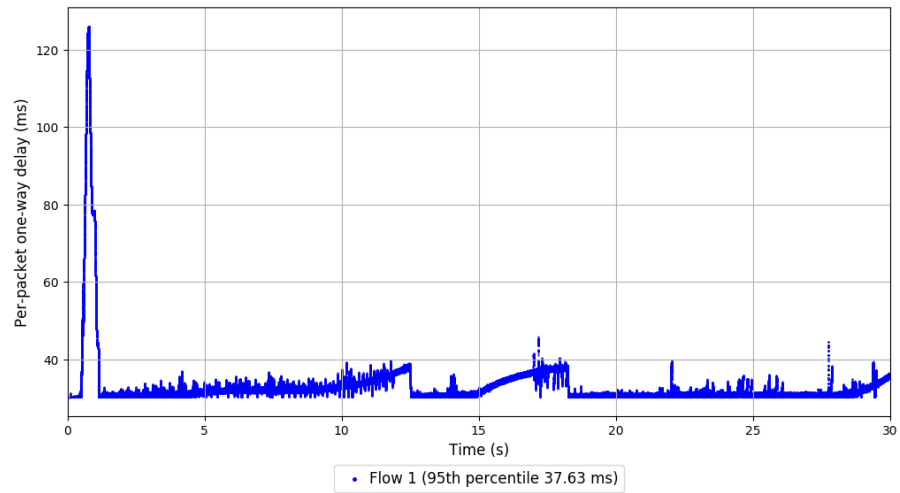
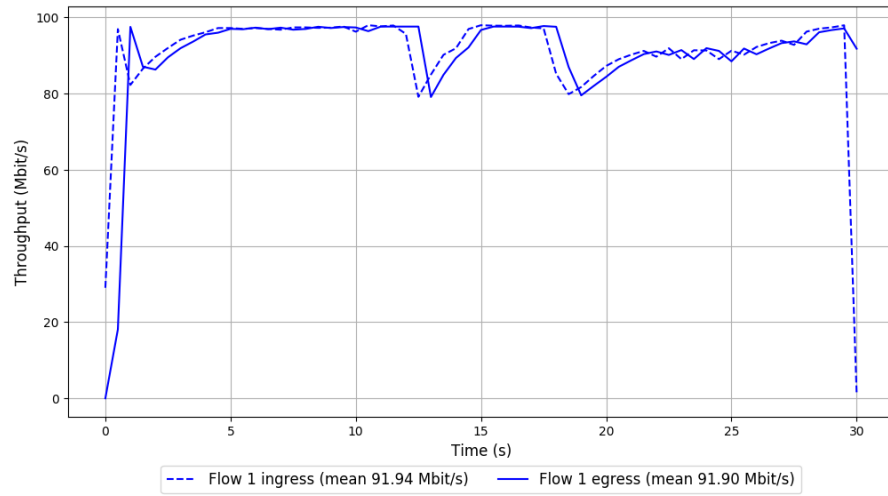
-- Flow 1:

Average throughput: 91.90 Mbit/s

95th percentile per-packet one-way delay: 37.633 ms

Loss rate: 0.26%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-11-24 12:50:17

End at: 2019-11-24 12:50:47

Local clock offset: 3.131 ms

Remote clock offset: 4.412 ms

Below is generated by plot.py at 2019-11-24 15:33:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.89 Mbit/s

95th percentile per-packet one-way delay: 37.475 ms

Loss rate: 0.26%

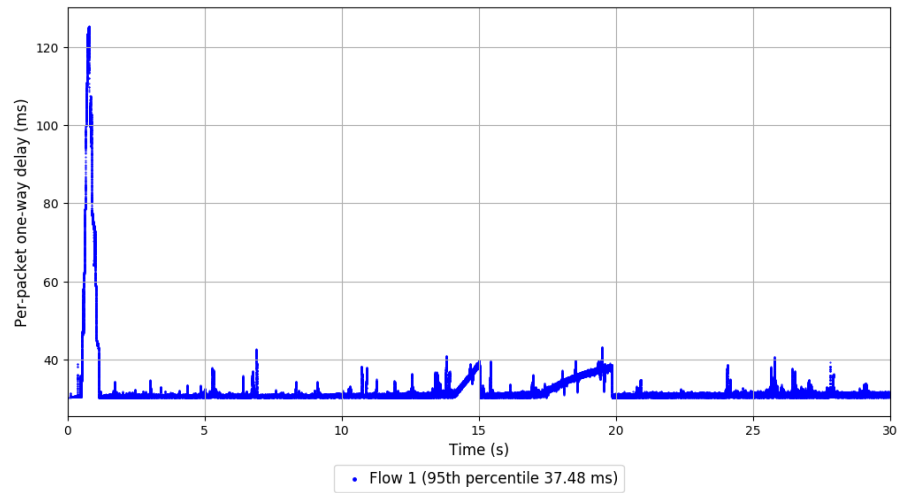
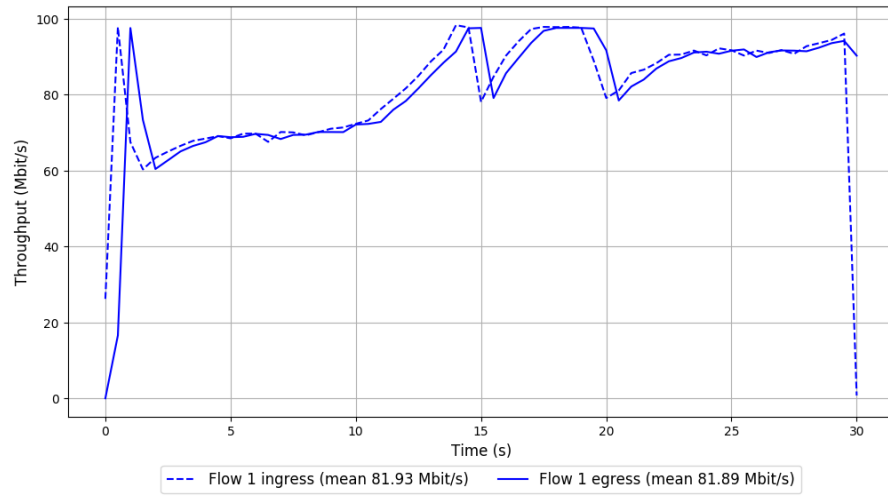
-- Flow 1:

Average throughput: 81.89 Mbit/s

95th percentile per-packet one-way delay: 37.475 ms

Loss rate: 0.26%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2019-11-24 13:33:12

End at: 2019-11-24 13:33:42

Local clock offset: 2.615 ms

Remote clock offset: 4.149 ms

Below is generated by plot.py at 2019-11-24 15:33:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.73 Mbit/s

95th percentile per-packet one-way delay: 38.248 ms

Loss rate: 0.26%

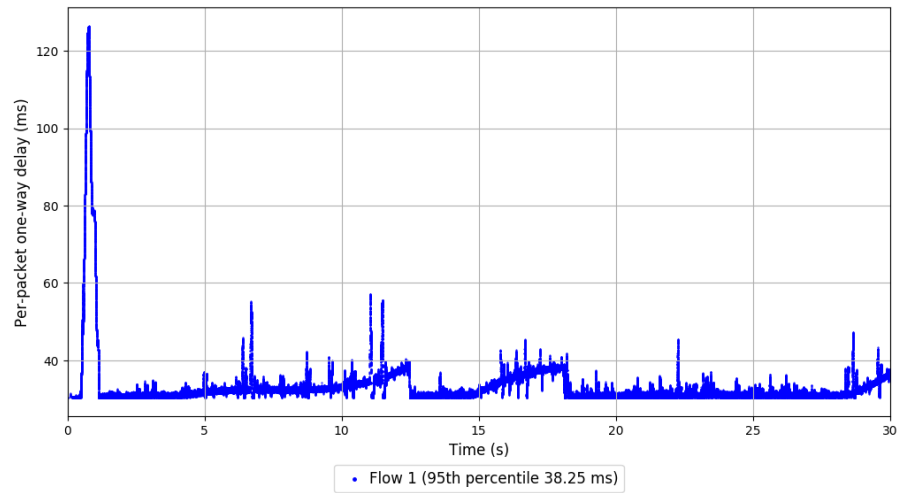
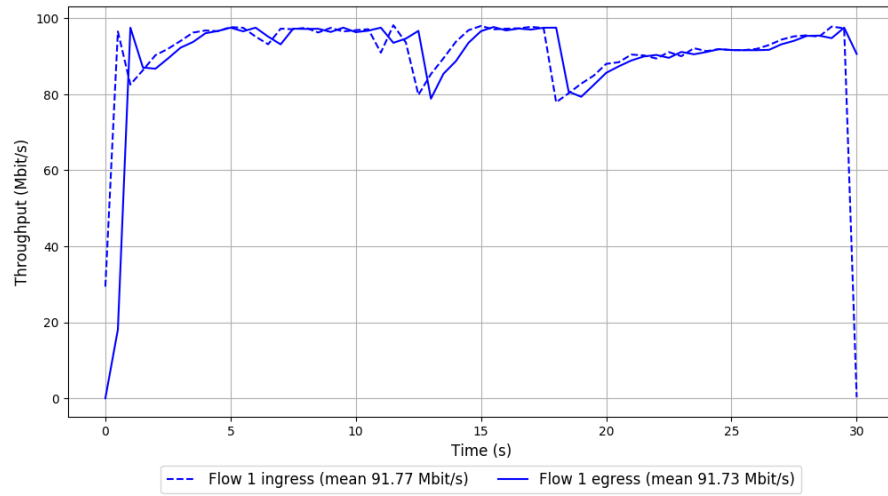
-- Flow 1:

Average throughput: 91.73 Mbit/s

95th percentile per-packet one-way delay: 38.248 ms

Loss rate: 0.26%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-11-24 14:19:39

End at: 2019-11-24 14:20:09

Local clock offset: 3.167 ms

Remote clock offset: 3.889 ms

Below is generated by plot.py at 2019-11-24 15:33:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.96 Mbit/s

95th percentile per-packet one-way delay: 38.130 ms

Loss rate: 0.21%

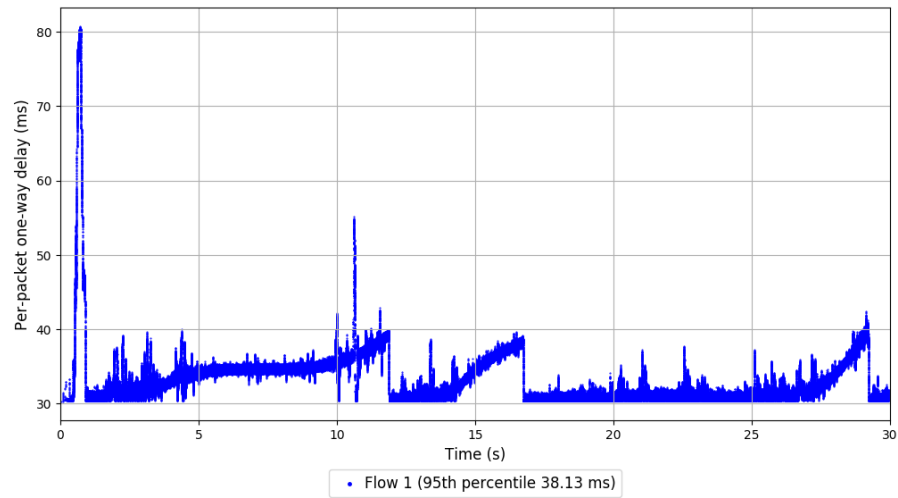
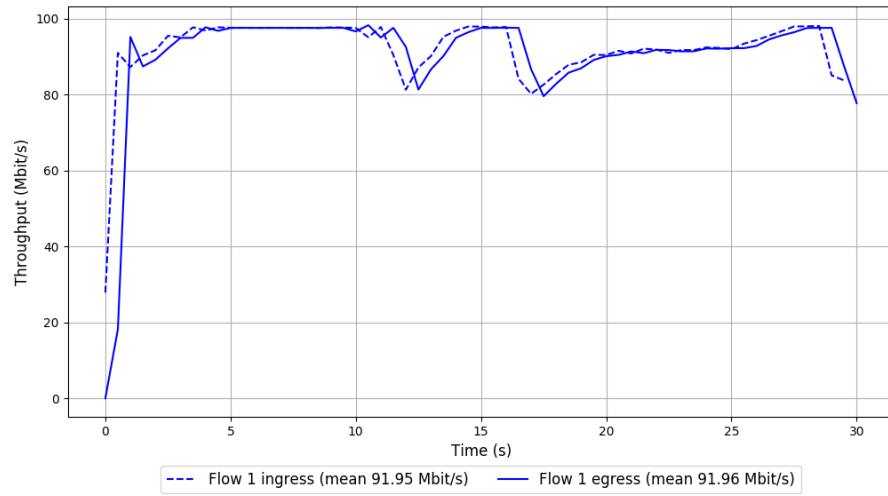
-- Flow 1:

Average throughput: 91.96 Mbit/s

95th percentile per-packet one-way delay: 38.130 ms

Loss rate: 0.21%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-11-24 15:20:12

End at: 2019-11-24 15:20:42

Local clock offset: 3.4 ms

Remote clock offset: 4.03 ms

Below is generated by plot.py at 2019-11-24 15:33:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.12 Mbit/s

95th percentile per-packet one-way delay: 39.477 ms

Loss rate: 0.19%

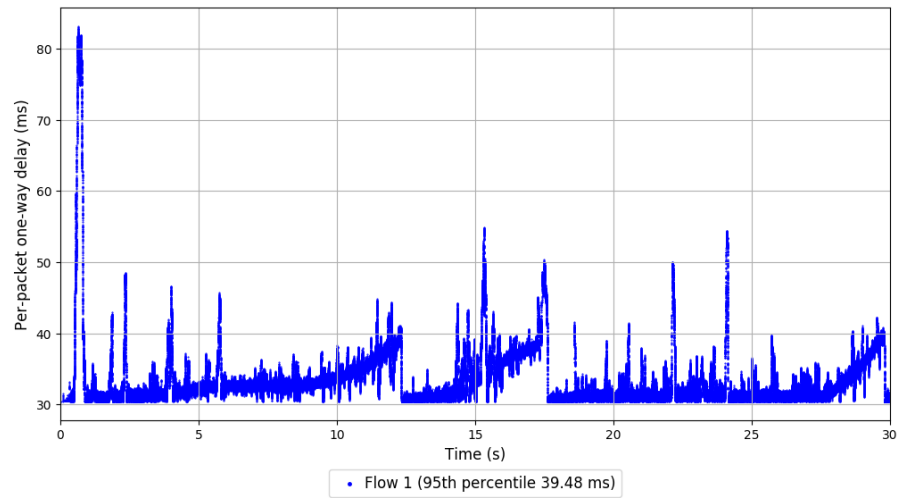
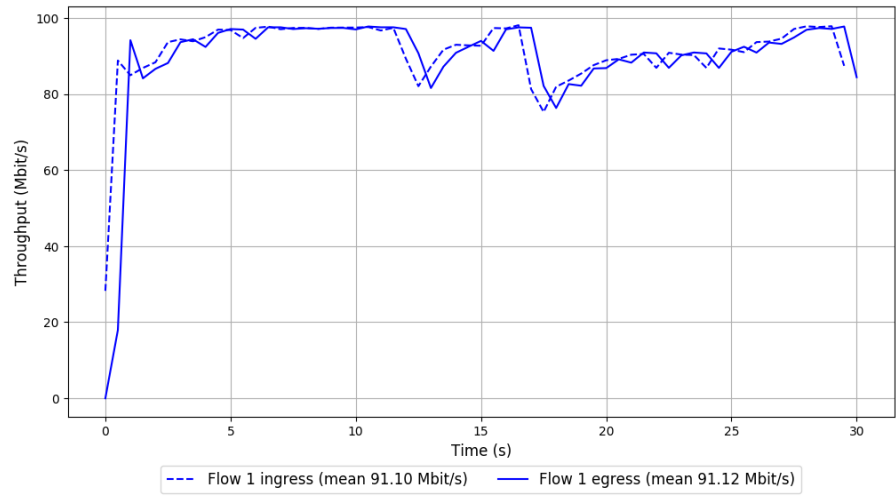
-- Flow 1:

Average throughput: 91.12 Mbit/s

95th percentile per-packet one-way delay: 39.477 ms

Loss rate: 0.19%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-11-24 11:49:25

End at: 2019-11-24 11:49:55

Local clock offset: 2.877 ms

Remote clock offset: 4.077 ms

Below is generated by plot.py at 2019-11-24 15:33:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.64 Mbit/s

95th percentile per-packet one-way delay: 65.740 ms

Loss rate: 0.49%

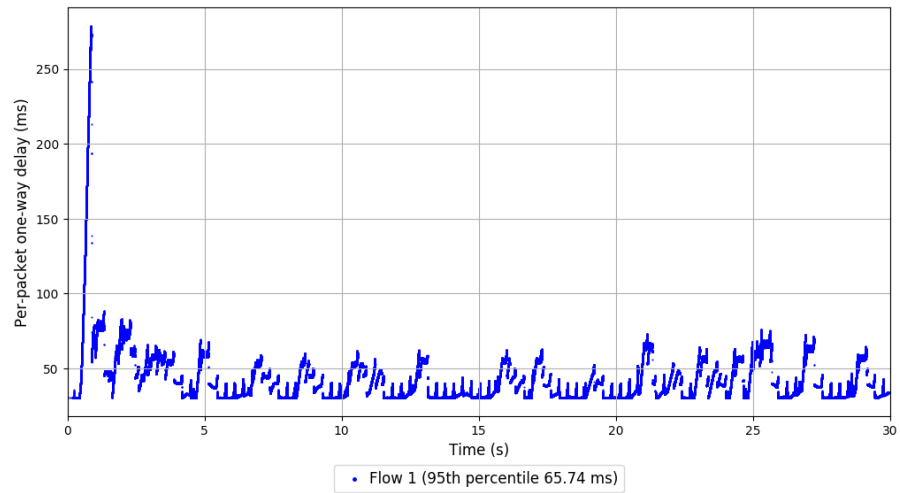
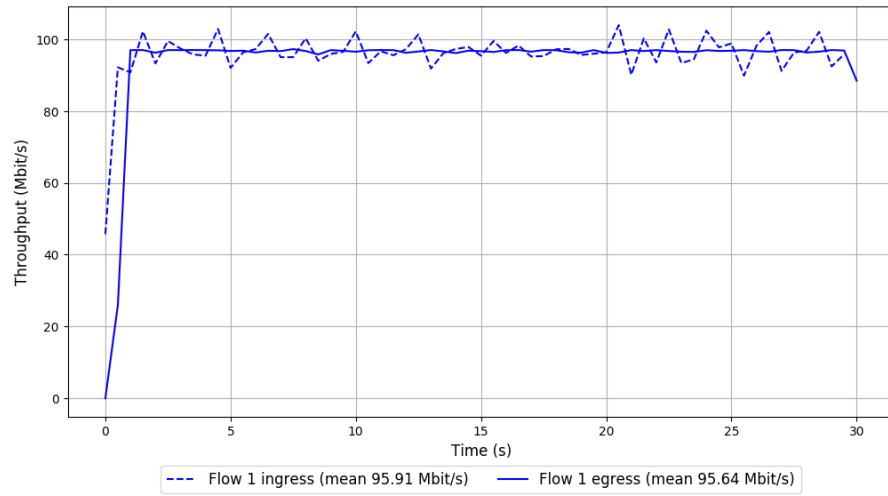
-- Flow 1:

Average throughput: 95.64 Mbit/s

95th percentile per-packet one-way delay: 65.740 ms

Loss rate: 0.49%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-11-24 12:25:37

End at: 2019-11-24 12:26:07

Local clock offset: 3.066 ms

Remote clock offset: 4.817 ms

Below is generated by plot.py at 2019-11-24 15:33:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.81 Mbit/s

95th percentile per-packet one-way delay: 69.686 ms

Loss rate: 0.99%

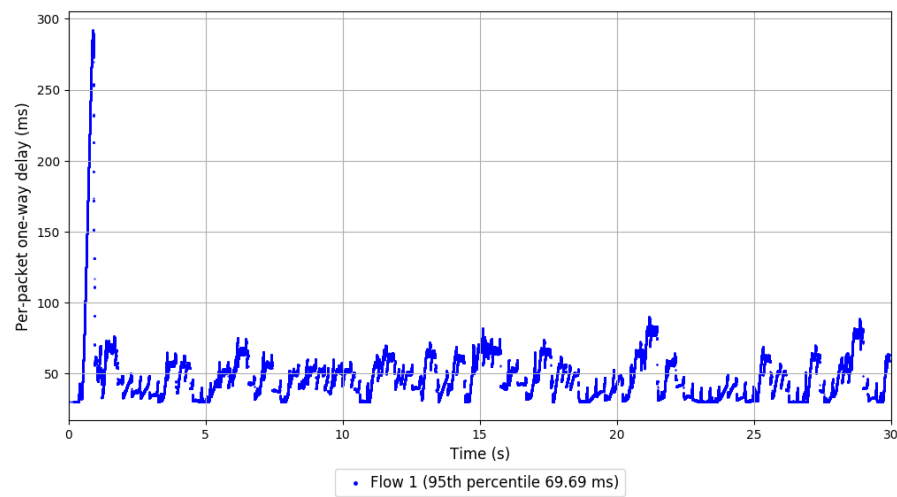
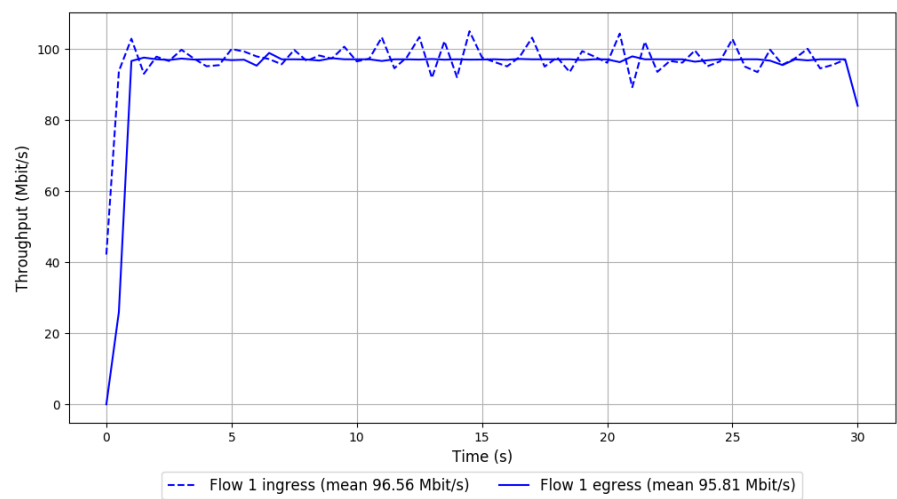
-- Flow 1:

Average throughput: 95.81 Mbit/s

95th percentile per-packet one-way delay: 69.686 ms

Loss rate: 0.99%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-11-24 13:06:15

End at: 2019-11-24 13:06:45

Local clock offset: 3.174 ms

Remote clock offset: 4.406 ms

Below is generated by plot.py at 2019-11-24 15:33:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.73 Mbit/s

95th percentile per-packet one-way delay: 62.337 ms

Loss rate: 0.46%

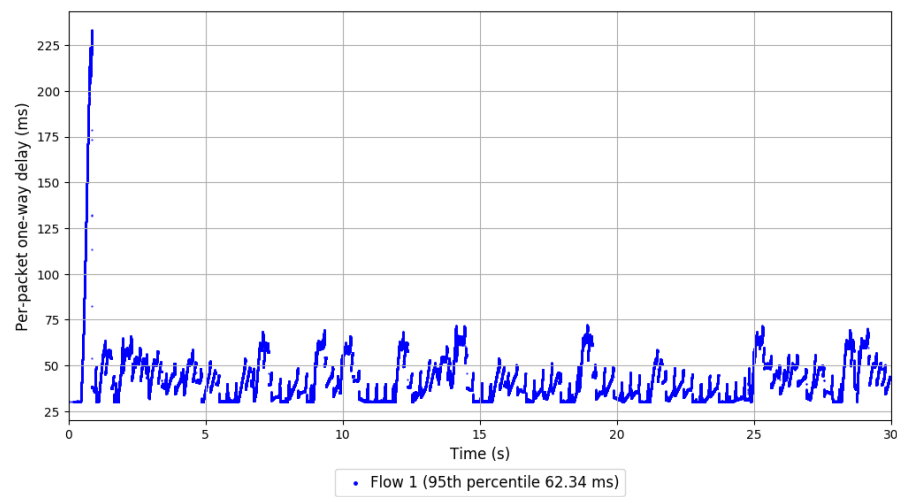
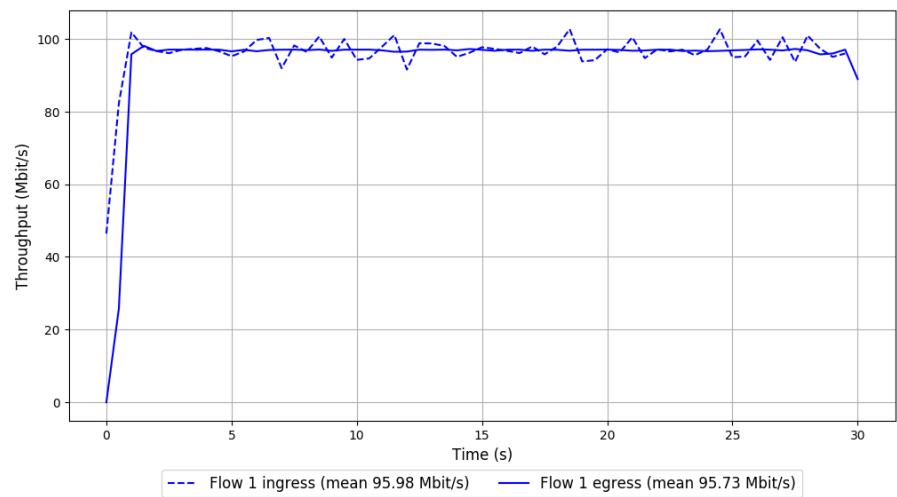
-- Flow 1:

Average throughput: 95.73 Mbit/s

95th percentile per-packet one-way delay: 62.337 ms

Loss rate: 0.46%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-11-24 13:51:00

End at: 2019-11-24 13:51:30

Local clock offset: 2.488 ms

Remote clock offset: 3.782 ms

Below is generated by plot.py at 2019-11-24 15:33:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.72 Mbit/s

95th percentile per-packet one-way delay: 68.210 ms

Loss rate: 0.58%

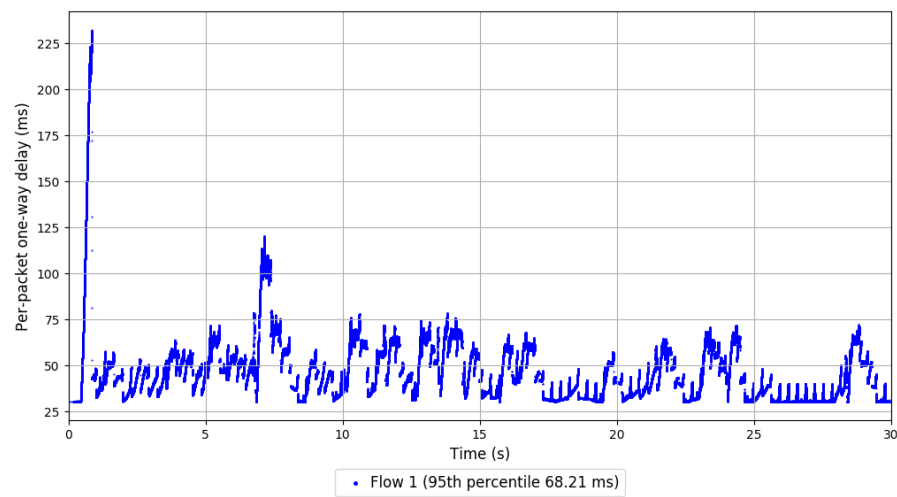
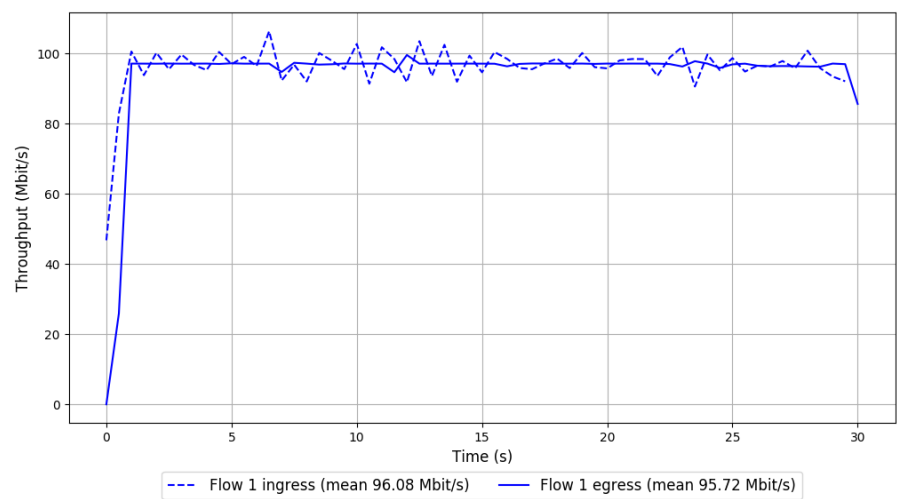
-- Flow 1:

Average throughput: 95.72 Mbit/s

95th percentile per-packet one-way delay: 68.210 ms

Loss rate: 0.58%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-11-24 14:44:25

End at: 2019-11-24 14:44:55

Local clock offset: 3.501 ms

Remote clock offset: 4.01 ms

Below is generated by plot.py at 2019-11-24 15:34:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.87 Mbit/s

95th percentile per-packet one-way delay: 71.354 ms

Loss rate: 1.11%

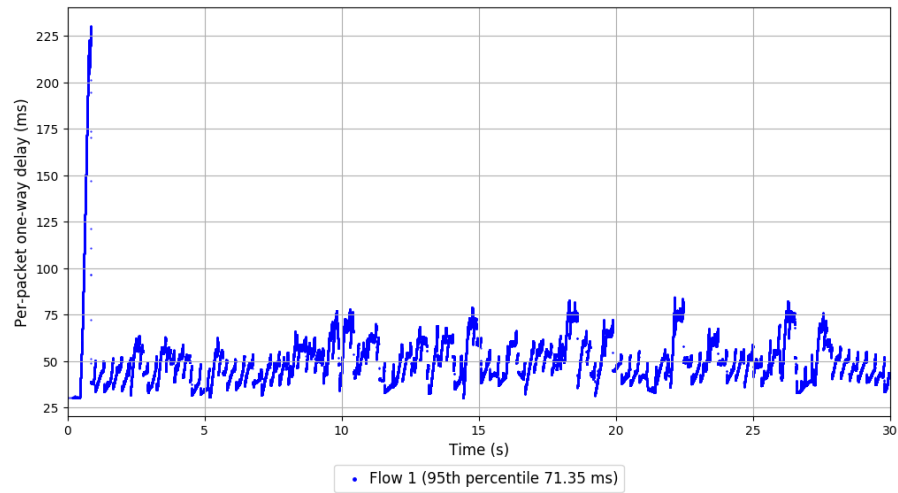
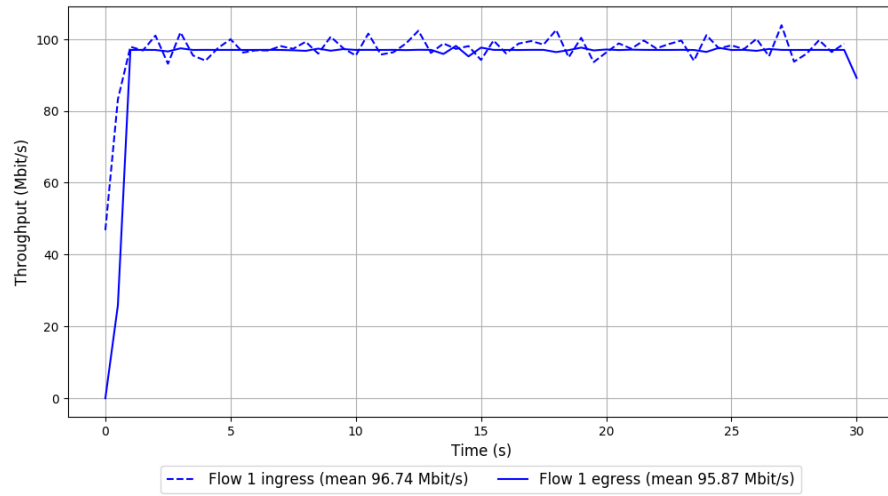
-- Flow 1:

Average throughput: 95.87 Mbit/s

95th percentile per-packet one-way delay: 71.354 ms

Loss rate: 1.11%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-11-24 12:12:54

End at: 2019-11-24 12:13:24

Local clock offset: 2.941 ms

Remote clock offset: 4.546 ms

Below is generated by plot.py at 2019-11-24 15:34:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.29 Mbit/s

95th percentile per-packet one-way delay: 48.689 ms

Loss rate: 0.24%

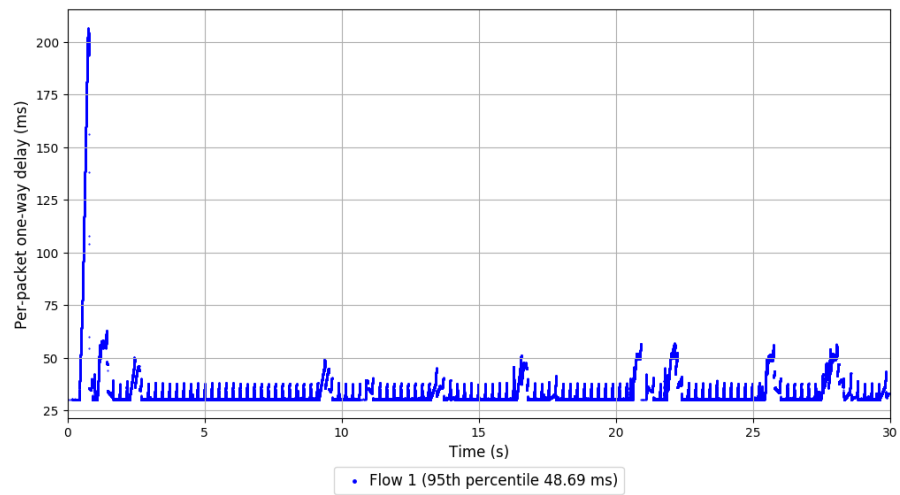
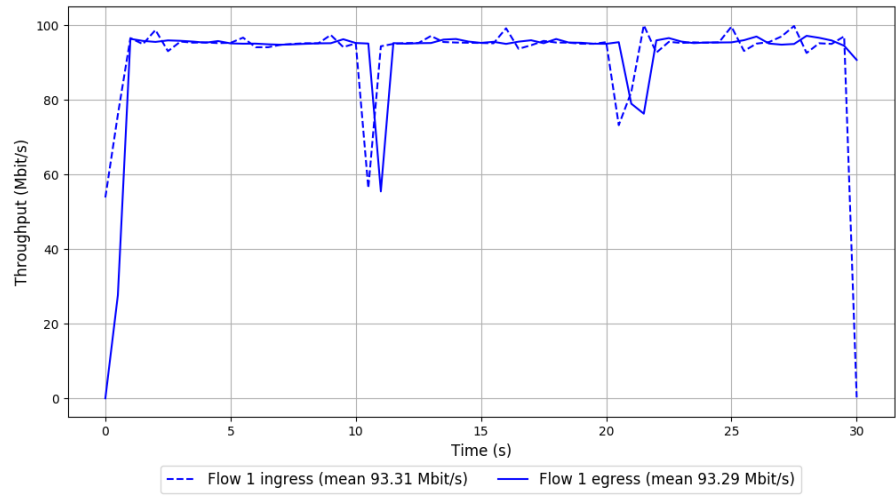
-- Flow 1:

Average throughput: 93.29 Mbit/s

95th percentile per-packet one-way delay: 48.689 ms

Loss rate: 0.24%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-11-24 12:51:57

End at: 2019-11-24 12:52:27

Local clock offset: 3.168 ms

Remote clock offset: 4.442 ms

Below is generated by plot.py at 2019-11-24 15:34:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.45 Mbit/s

95th percentile per-packet one-way delay: 46.878 ms

Loss rate: 0.31%

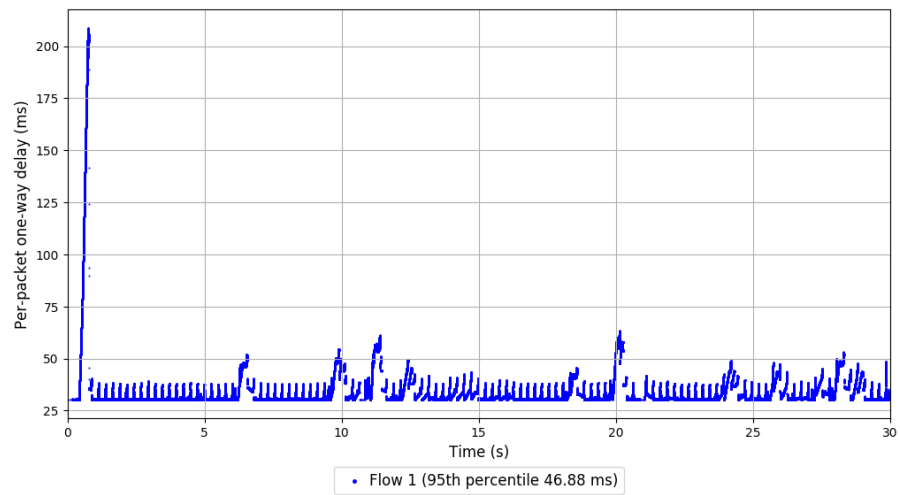
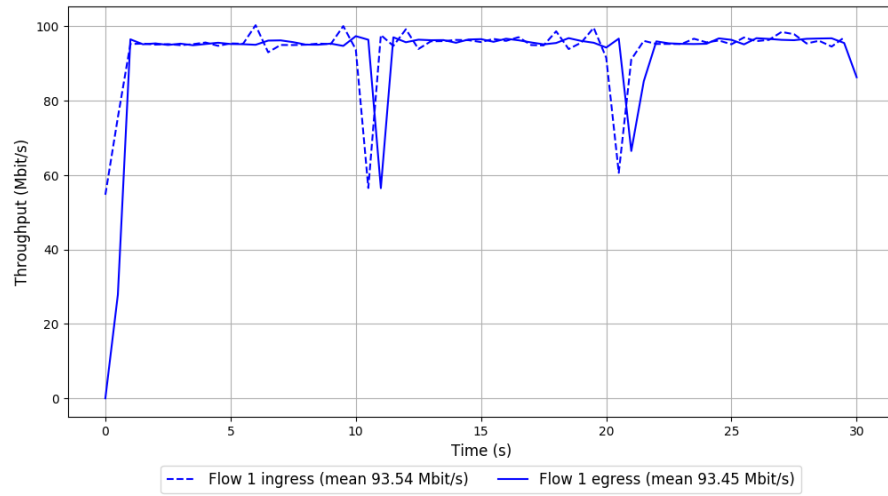
-- Flow 1:

Average throughput: 93.45 Mbit/s

95th percentile per-packet one-way delay: 46.878 ms

Loss rate: 0.31%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-11-24 13:35:01

End at: 2019-11-24 13:35:31

Local clock offset: 2.605 ms

Remote clock offset: 4.197 ms

Below is generated by plot.py at 2019-11-24 15:34:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.53 Mbit/s

95th percentile per-packet one-way delay: 51.885 ms

Loss rate: 0.26%

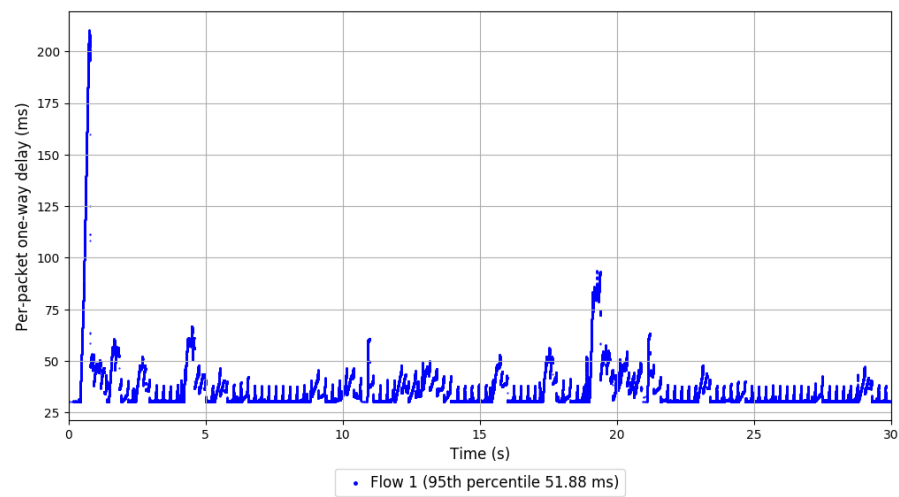
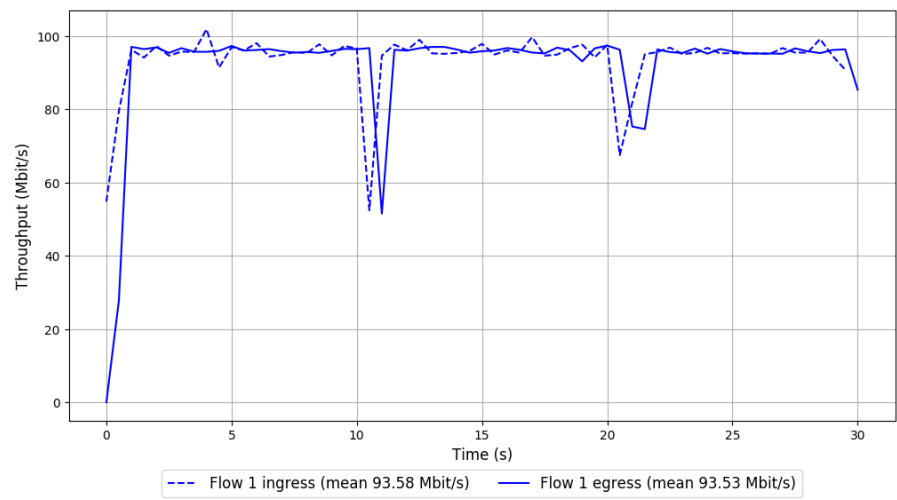
-- Flow 1:

Average throughput: 93.53 Mbit/s

95th percentile per-packet one-way delay: 51.885 ms

Loss rate: 0.26%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-11-24 14:21:34

End at: 2019-11-24 14:22:04

Local clock offset: 3.264 ms

Remote clock offset: 3.979 ms

Below is generated by plot.py at 2019-11-24 15:34:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.09 Mbit/s

95th percentile per-packet one-way delay: 63.365 ms

Loss rate: 0.37%

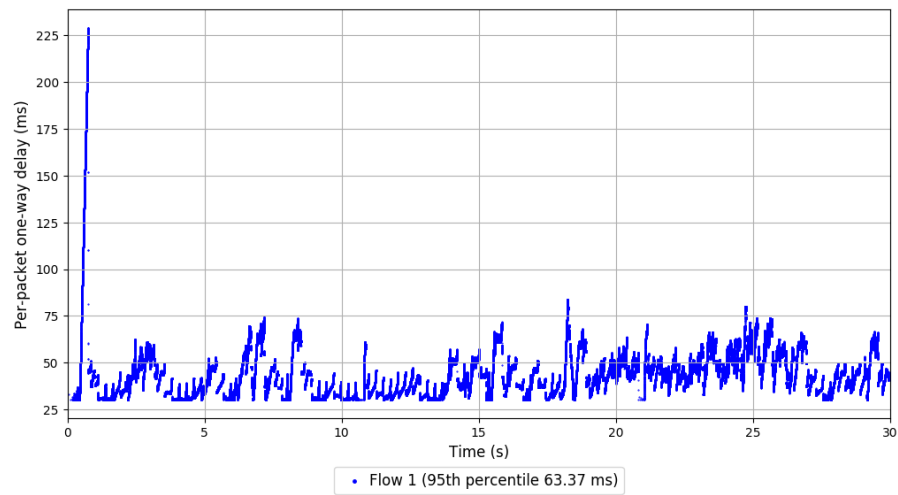
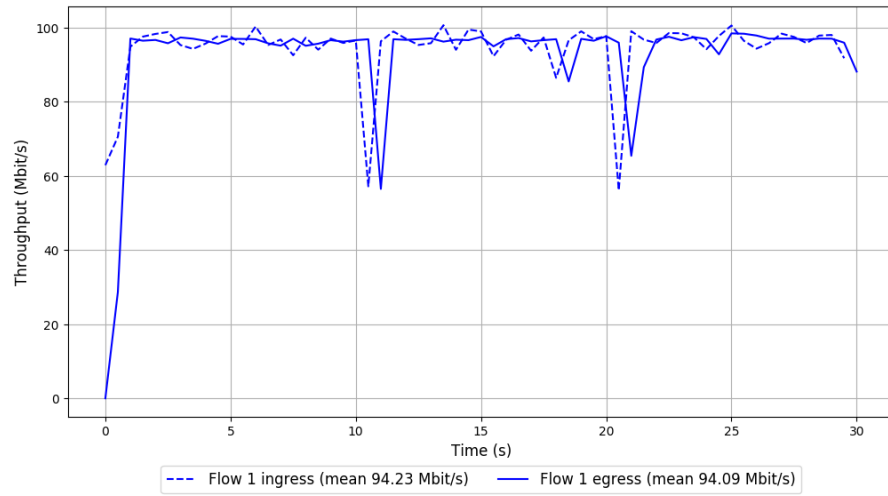
-- Flow 1:

Average throughput: 94.09 Mbit/s

95th percentile per-packet one-way delay: 63.365 ms

Loss rate: 0.37%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-11-24 15:22:21

End at: 2019-11-24 15:22:51

Local clock offset: 3.451 ms

Remote clock offset: 4.032 ms

Below is generated by plot.py at 2019-11-24 15:34:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.08 Mbit/s

95th percentile per-packet one-way delay: 53.098 ms

Loss rate: 0.30%

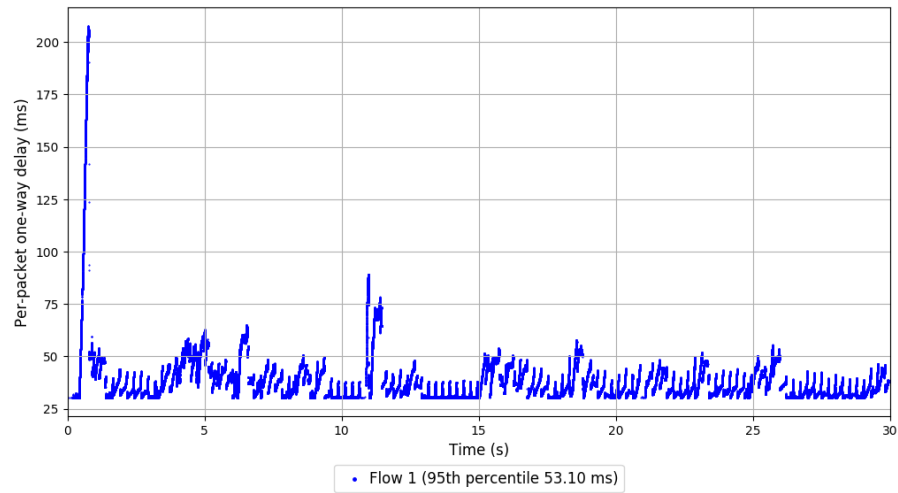
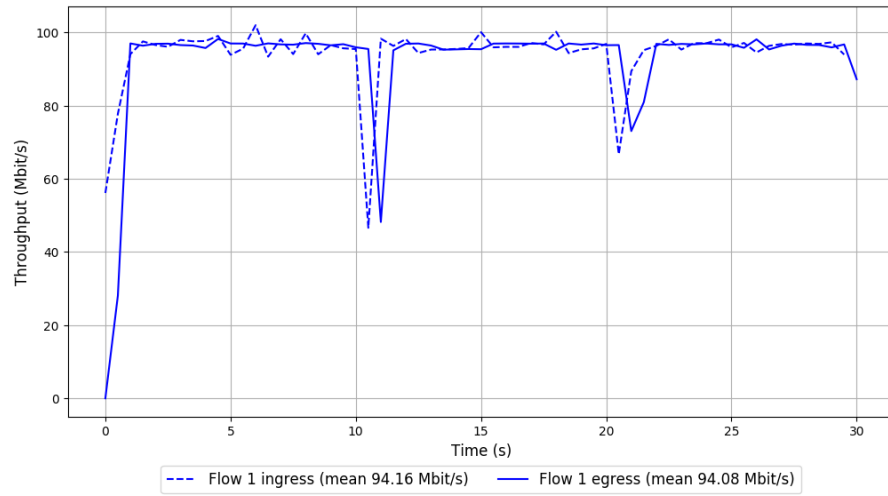
-- Flow 1:

Average throughput: 94.08 Mbit/s

95th percentile per-packet one-way delay: 53.098 ms

Loss rate: 0.30%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-11-24 12:01:19

End at: 2019-11-24 12:01:49

Local clock offset: 2.866 ms

Remote clock offset: 4.362 ms

Below is generated by plot.py at 2019-11-24 15:34:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.53 Mbit/s

95th percentile per-packet one-way delay: 36.508 ms

Loss rate: 0.23%

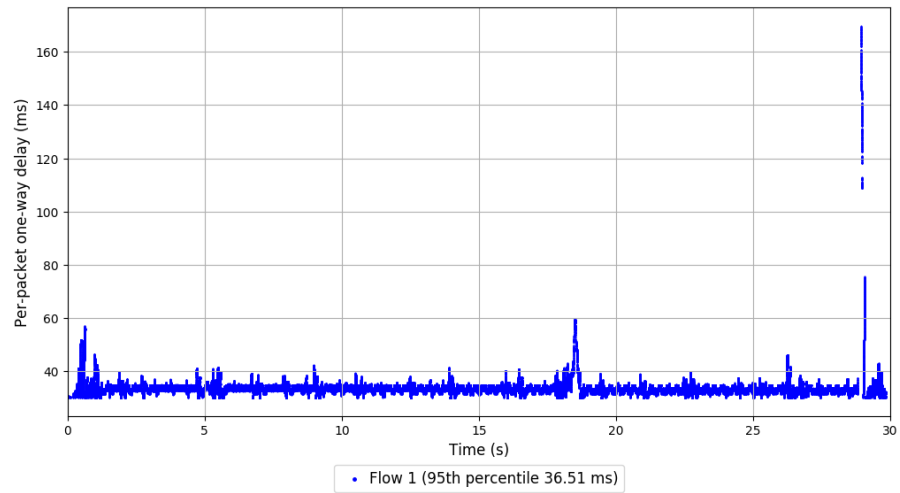
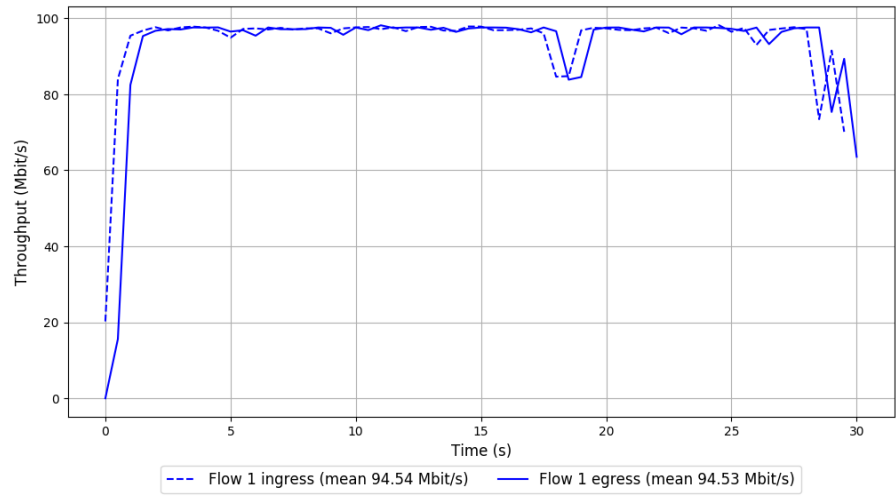
-- Flow 1:

Average throughput: 94.53 Mbit/s

95th percentile per-packet one-way delay: 36.508 ms

Loss rate: 0.23%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-11-24 12:38:49

End at: 2019-11-24 12:39:19

Local clock offset: 3.148 ms

Remote clock offset: 4.576 ms

Below is generated by plot.py at 2019-11-24 15:34:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.87 Mbit/s

95th percentile per-packet one-way delay: 36.616 ms

Loss rate: 0.23%

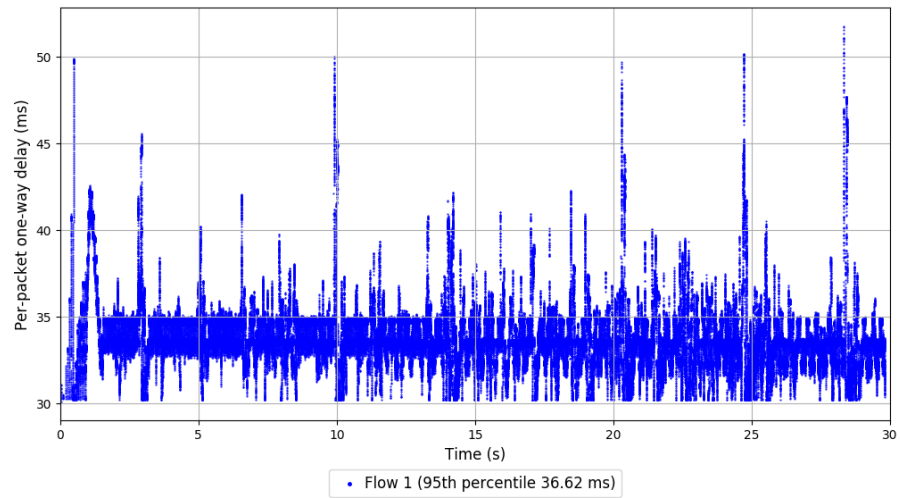
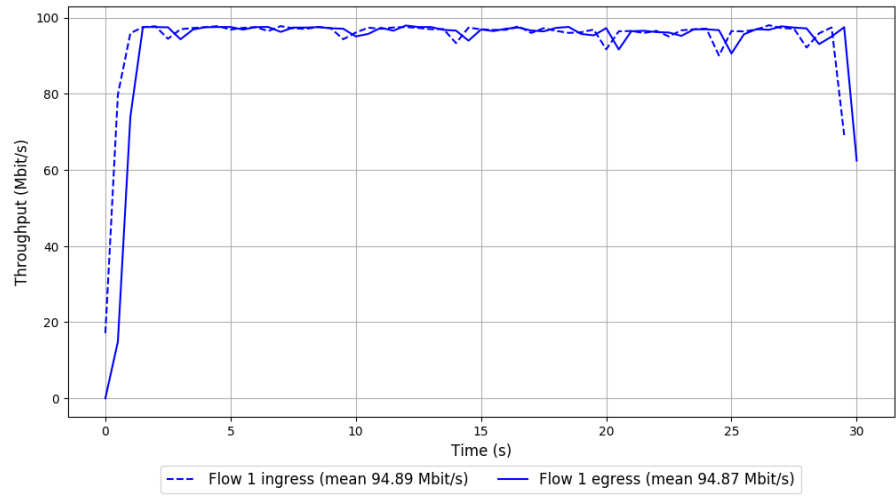
-- Flow 1:

Average throughput: 94.87 Mbit/s

95th percentile per-packet one-way delay: 36.616 ms

Loss rate: 0.23%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-11-24 13:20:13

End at: 2019-11-24 13:20:43

Local clock offset: 2.781 ms

Remote clock offset: 4.366 ms

Below is generated by plot.py at 2019-11-24 15:35:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.34 Mbit/s

95th percentile per-packet one-way delay: 35.723 ms

Loss rate: 0.24%

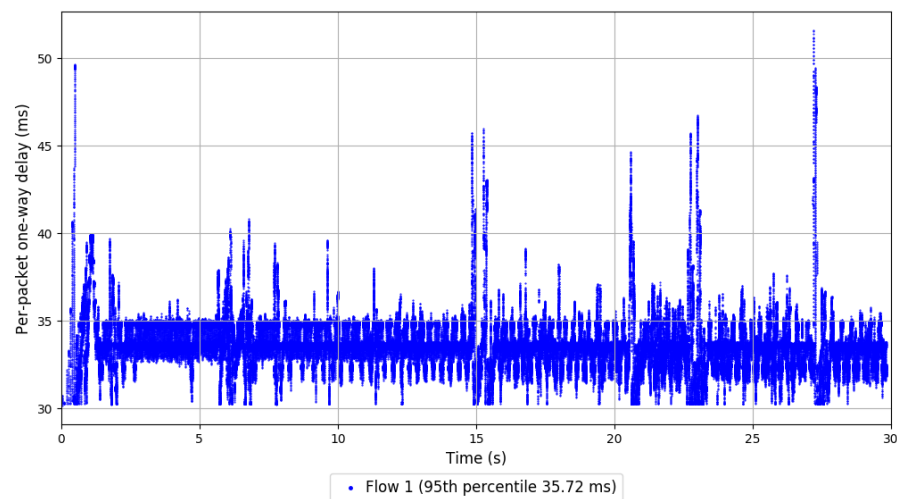
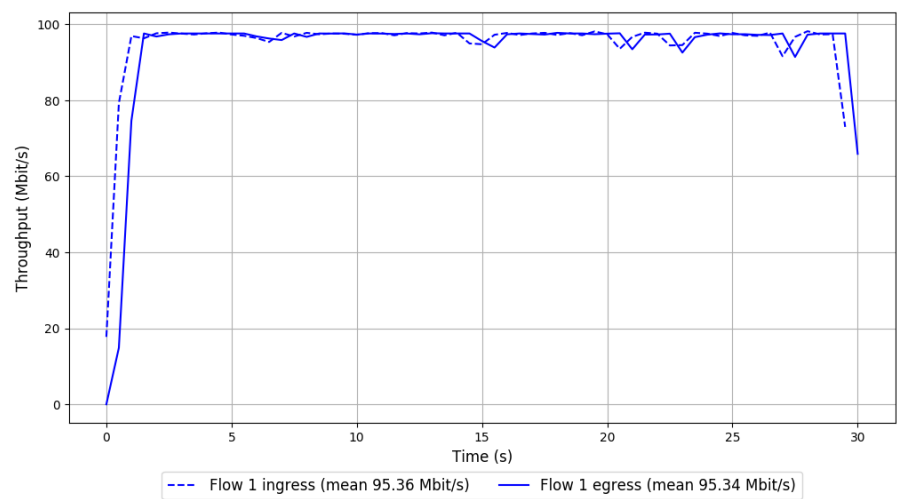
-- Flow 1:

Average throughput: 95.34 Mbit/s

95th percentile per-packet one-way delay: 35.723 ms

Loss rate: 0.24%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-11-24 14:05:30

End at: 2019-11-24 14:06:00

Local clock offset: 2.426 ms

Remote clock offset: 3.588 ms

Below is generated by plot.py at 2019-11-24 15:35:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.53 Mbit/s

95th percentile per-packet one-way delay: 37.935 ms

Loss rate: 0.23%

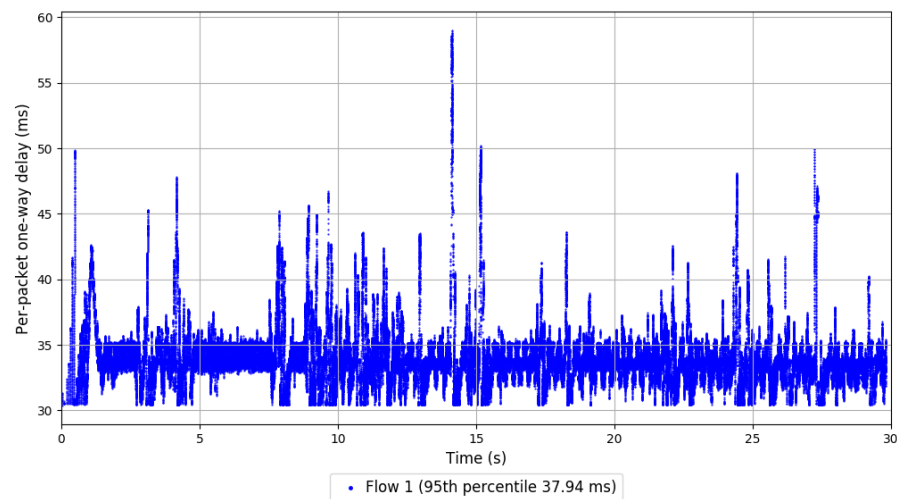
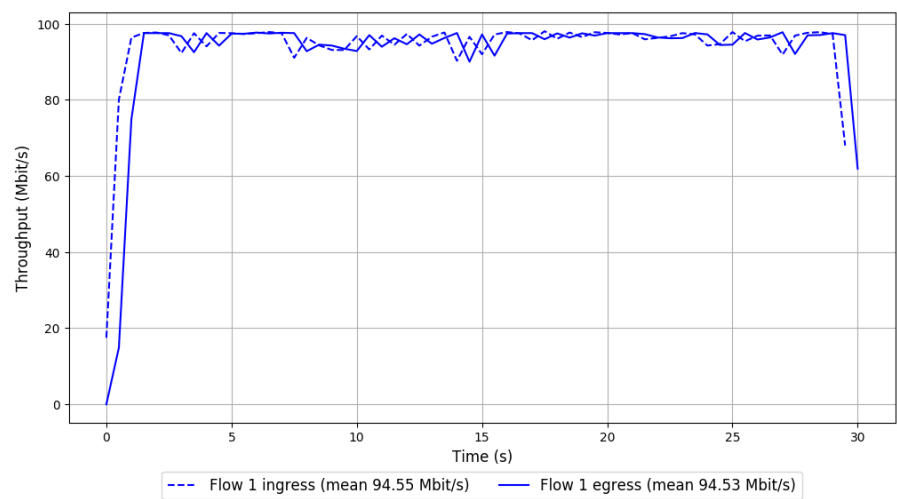
-- Flow 1:

Average throughput: 94.53 Mbit/s

95th percentile per-packet one-way delay: 37.935 ms

Loss rate: 0.23%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-11-24 15:03:17

End at: 2019-11-24 15:03:47

Local clock offset: 3.397 ms

Remote clock offset: 4.071 ms

Below is generated by plot.py at 2019-11-24 15:35:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.17 Mbit/s

95th percentile per-packet one-way delay: 38.800 ms

Loss rate: 0.23%

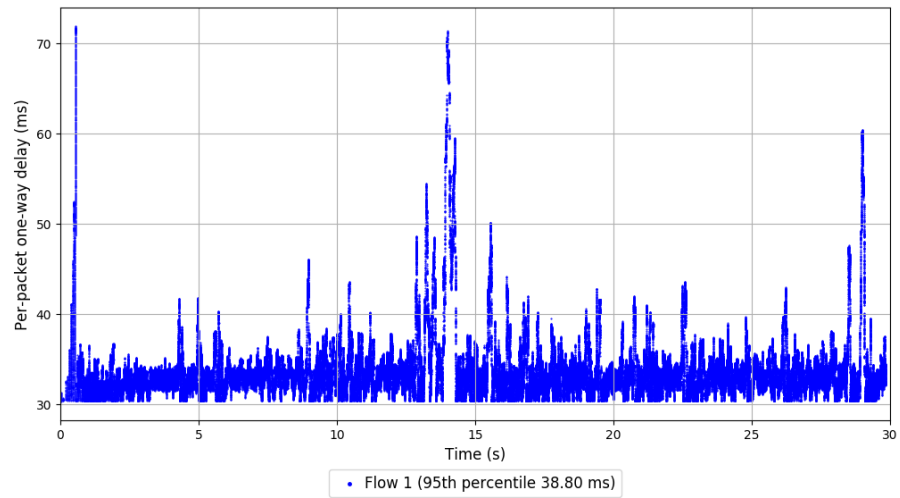
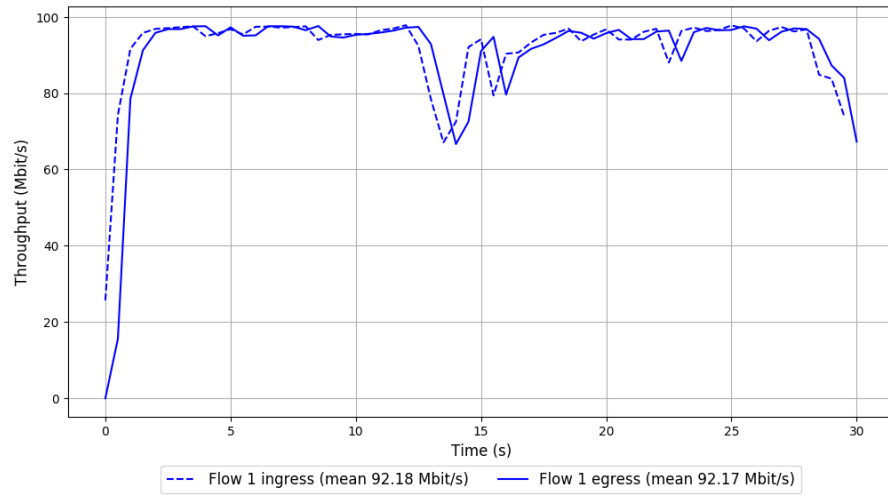
-- Flow 1:

Average throughput: 92.17 Mbit/s

95th percentile per-packet one-way delay: 38.800 ms

Loss rate: 0.23%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-11-24 12:14:20

End at: 2019-11-24 12:14:50

Local clock offset: 3.017 ms

Remote clock offset: 4.567 ms

Below is generated by plot.py at 2019-11-24 15:35:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.50 Mbit/s

95th percentile per-packet one-way delay: 37.739 ms

Loss rate: 0.24%

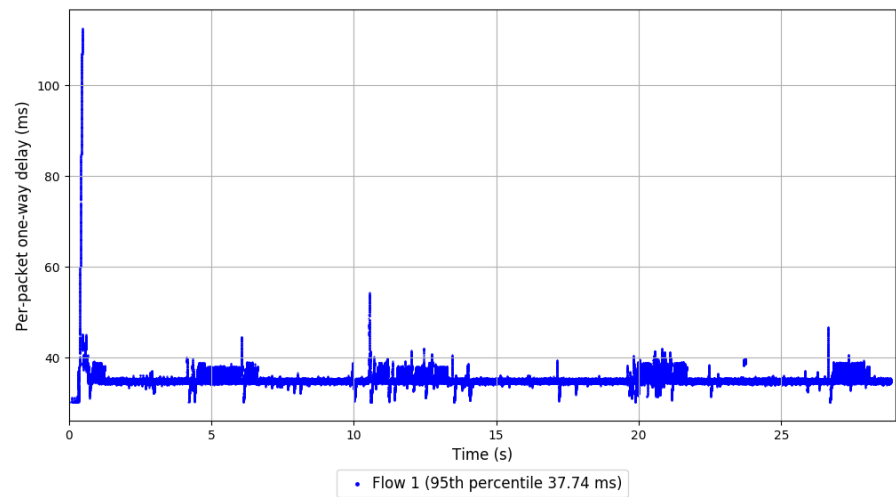
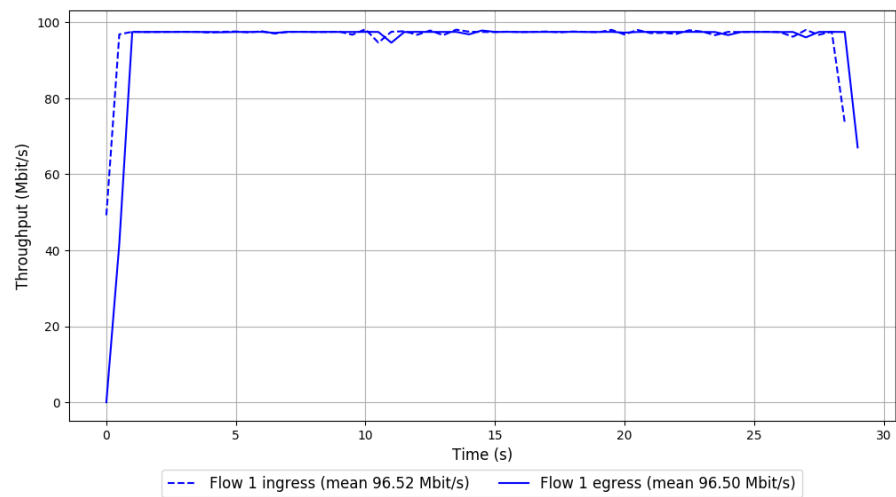
-- Flow 1:

Average throughput: 96.50 Mbit/s

95th percentile per-packet one-way delay: 37.739 ms

Loss rate: 0.24%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-11-24 12:53:55

End at: 2019-11-24 12:54:25

Local clock offset: 3.153 ms

Remote clock offset: 4.395 ms

Below is generated by plot.py at 2019-11-24 15:35:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.54 Mbit/s

95th percentile per-packet one-way delay: 37.960 ms

Loss rate: 0.25%

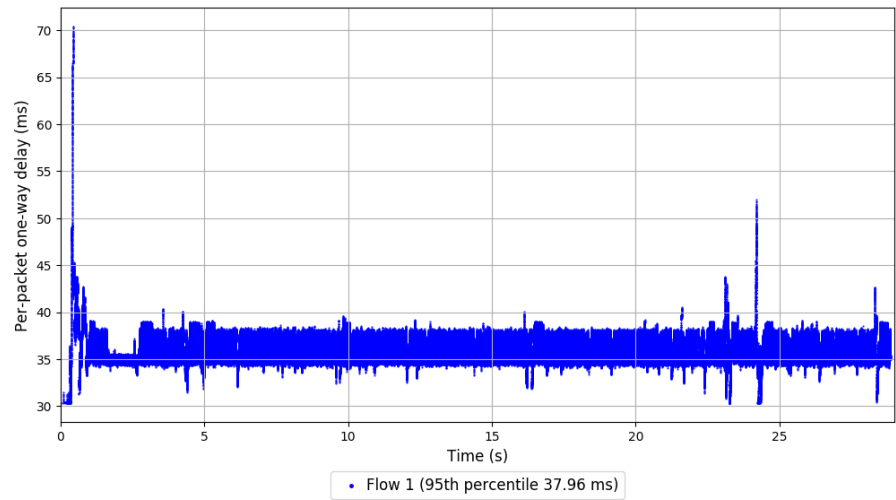
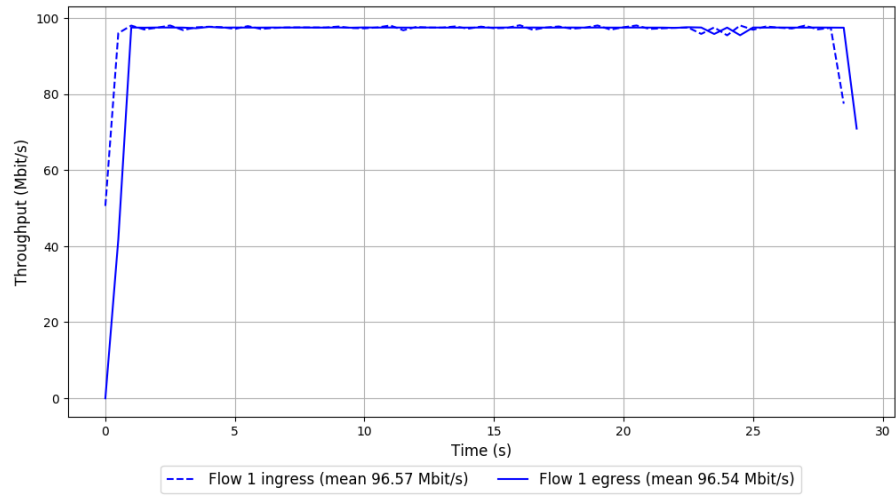
-- Flow 1:

Average throughput: 96.54 Mbit/s

95th percentile per-packet one-way delay: 37.960 ms

Loss rate: 0.25%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-11-24 13:36:41

End at: 2019-11-24 13:37:11

Local clock offset: 2.598 ms

Remote clock offset: 4.151 ms

Below is generated by plot.py at 2019-11-24 15:35:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.72 Mbit/s

95th percentile per-packet one-way delay: 40.392 ms

Loss rate: 0.22%

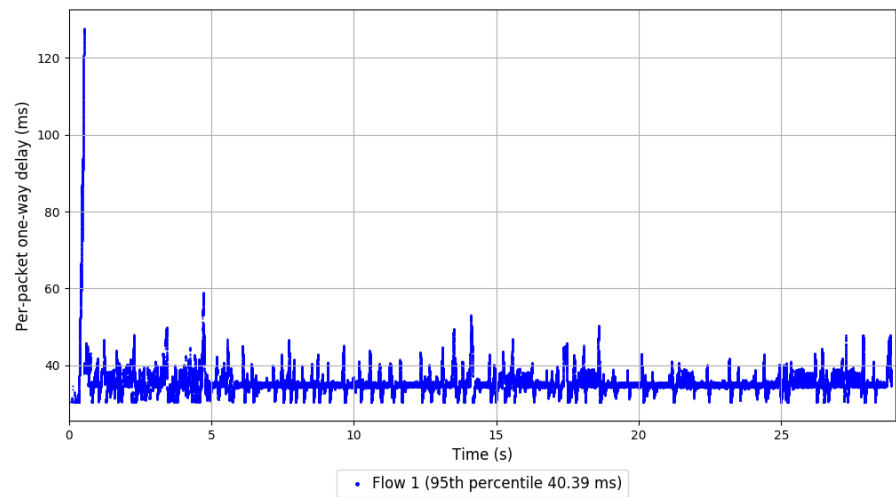
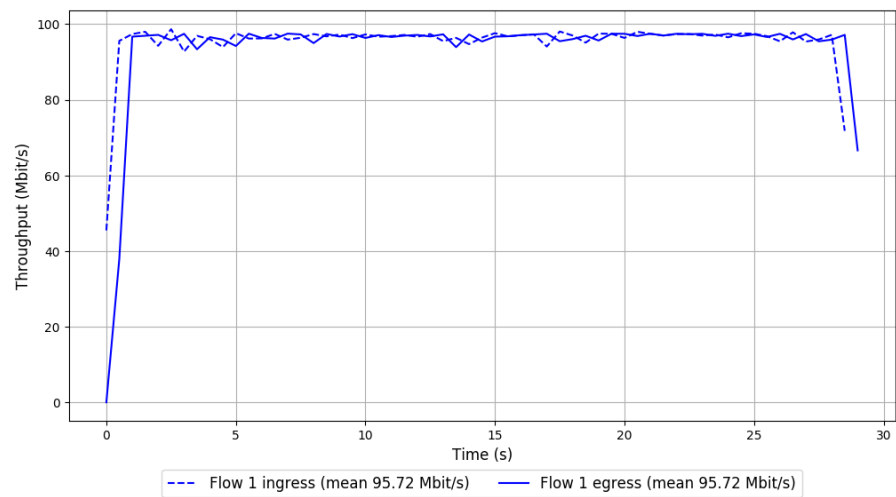
-- Flow 1:

Average throughput: 95.72 Mbit/s

95th percentile per-packet one-way delay: 40.392 ms

Loss rate: 0.22%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-11-24 14:24:39

End at: 2019-11-24 14:25:09

Local clock offset: 3.346 ms

Remote clock offset: 3.943 ms

Below is generated by plot.py at 2019-11-24 15:35:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.22 Mbit/s

95th percentile per-packet one-way delay: 38.782 ms

Loss rate: 0.23%

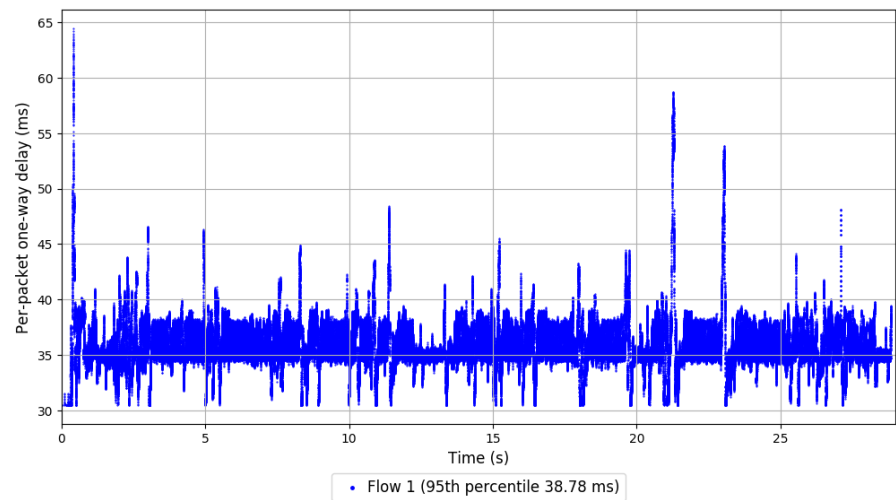
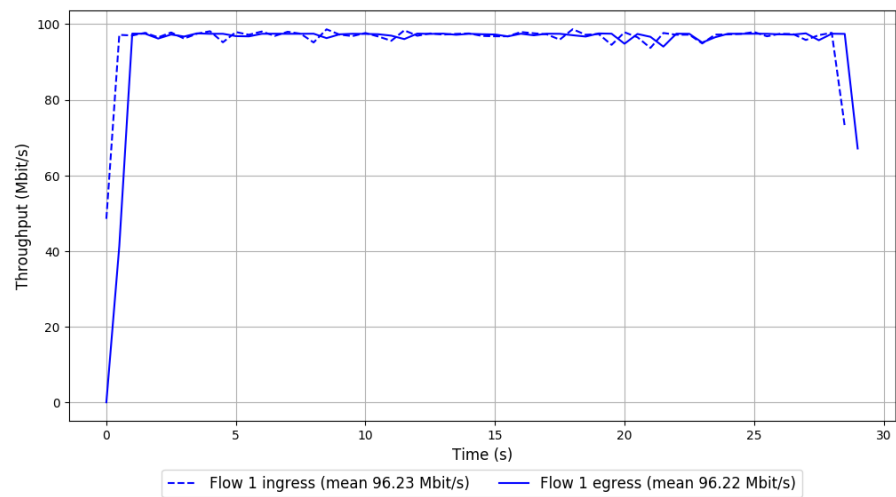
-- Flow 1:

Average throughput: 96.22 Mbit/s

95th percentile per-packet one-way delay: 38.782 ms

Loss rate: 0.23%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-11-24 15:24:35

End at: 2019-11-24 15:25:05

Local clock offset: 3.422 ms

Remote clock offset: 3.888 ms

Below is generated by plot.py at 2019-11-24 15:35:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.55 Mbit/s

95th percentile per-packet one-way delay: 45.851 ms

Loss rate: 0.26%

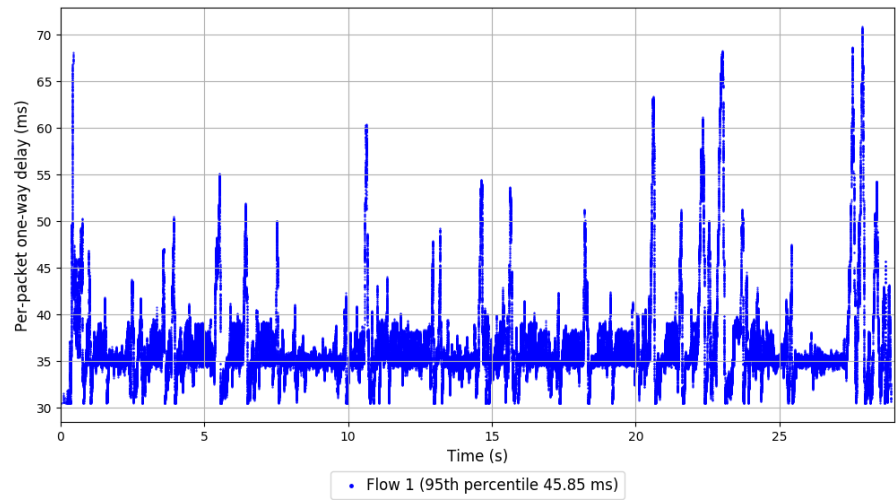
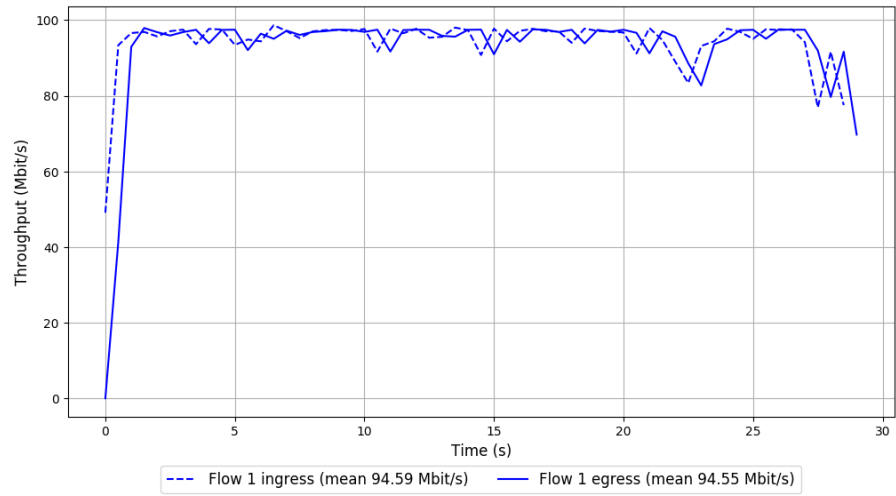
-- Flow 1:

Average throughput: 94.55 Mbit/s

95th percentile per-packet one-way delay: 45.851 ms

Loss rate: 0.26%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-11-24 11:45:14

End at: 2019-11-24 11:45:44

Local clock offset: 2.859 ms

Remote clock offset: 3.898 ms

Below is generated by plot.py at 2019-11-24 15:36:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.01 Mbit/s

95th percentile per-packet one-way delay: 35.635 ms

Loss rate: 0.24%

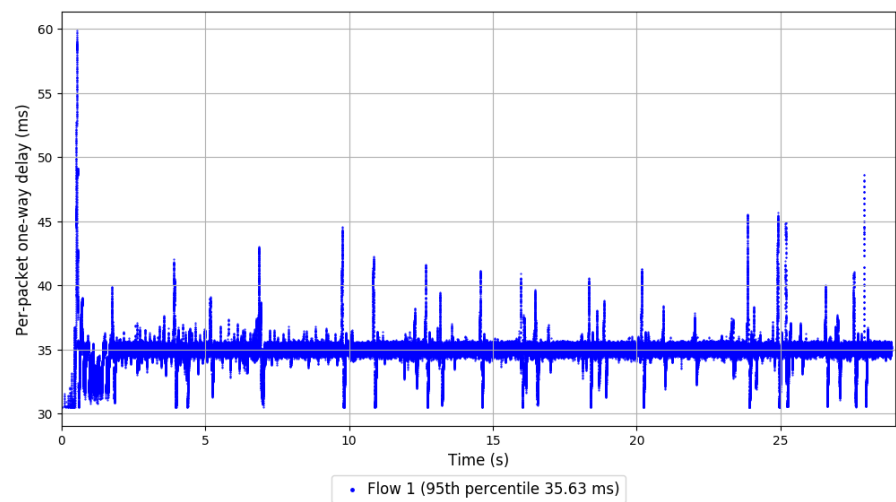
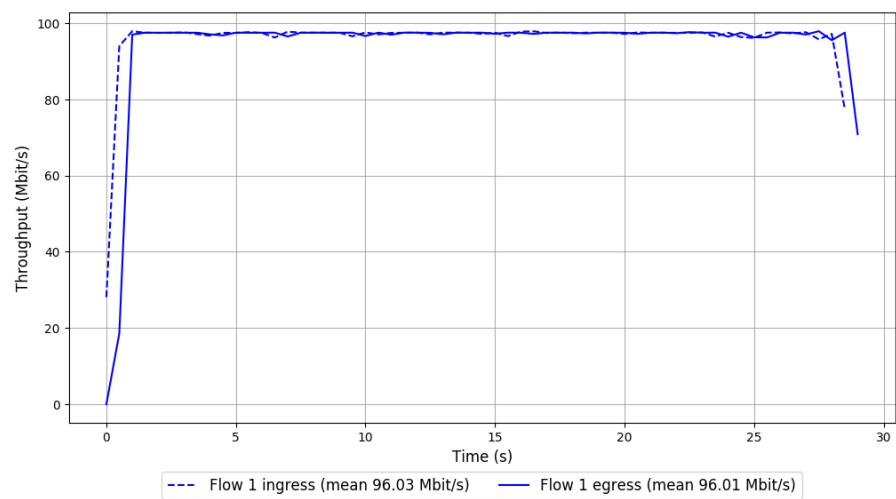
-- Flow 1:

Average throughput: 96.01 Mbit/s

95th percentile per-packet one-way delay: 35.635 ms

Loss rate: 0.24%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-11-24 12:21:38

End at: 2019-11-24 12:22:08

Local clock offset: 3.065 ms

Remote clock offset: 4.564 ms

Below is generated by plot.py at 2019-11-24 15:36:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.89 Mbit/s

95th percentile per-packet one-way delay: 35.111 ms

Loss rate: 0.24%

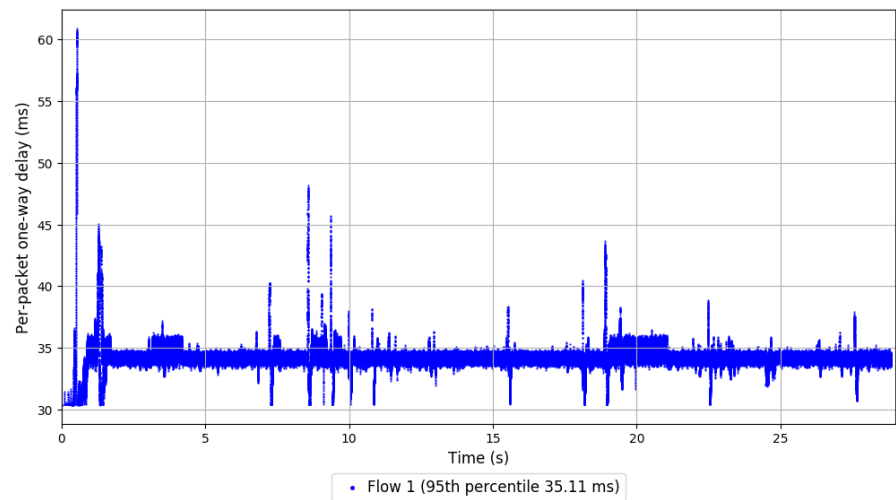
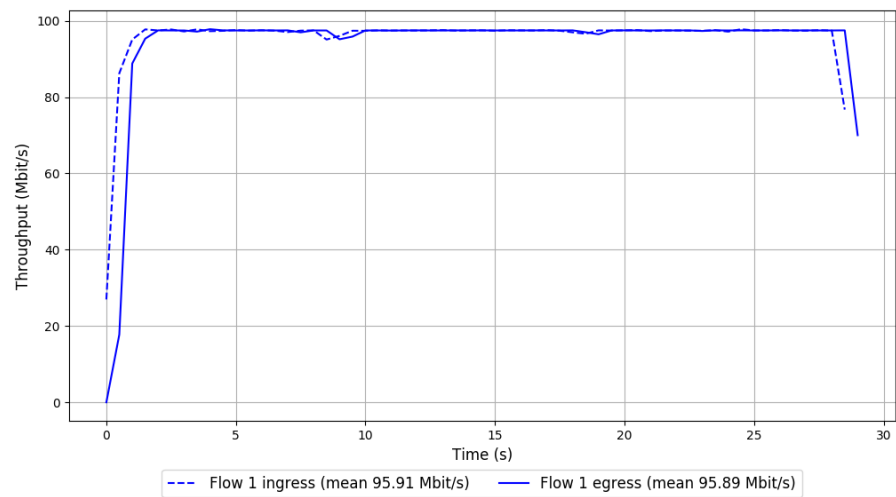
-- Flow 1:

Average throughput: 95.89 Mbit/s

95th percentile per-packet one-way delay: 35.111 ms

Loss rate: 0.24%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-11-24 13:01:42

End at: 2019-11-24 13:02:13

Local clock offset: 3.167 ms

Remote clock offset: 4.48 ms

Below is generated by plot.py at 2019-11-24 15:36:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.05 Mbit/s

95th percentile per-packet one-way delay: 35.800 ms

Loss rate: 0.24%

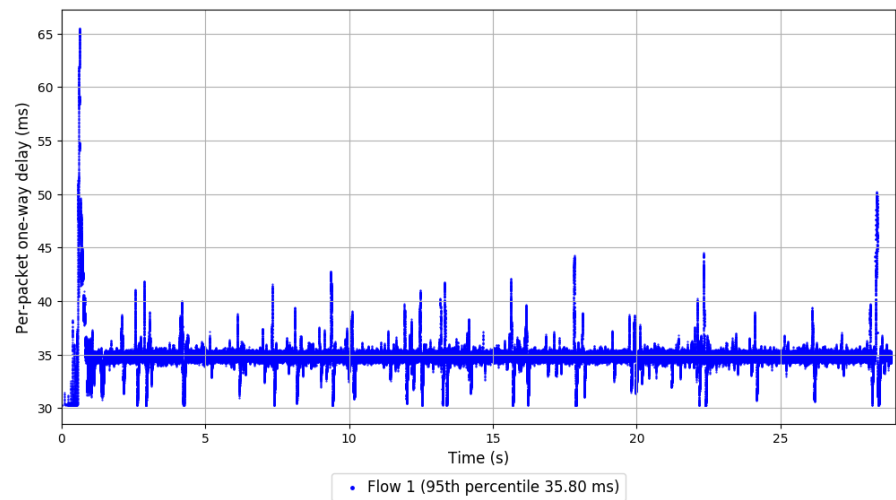
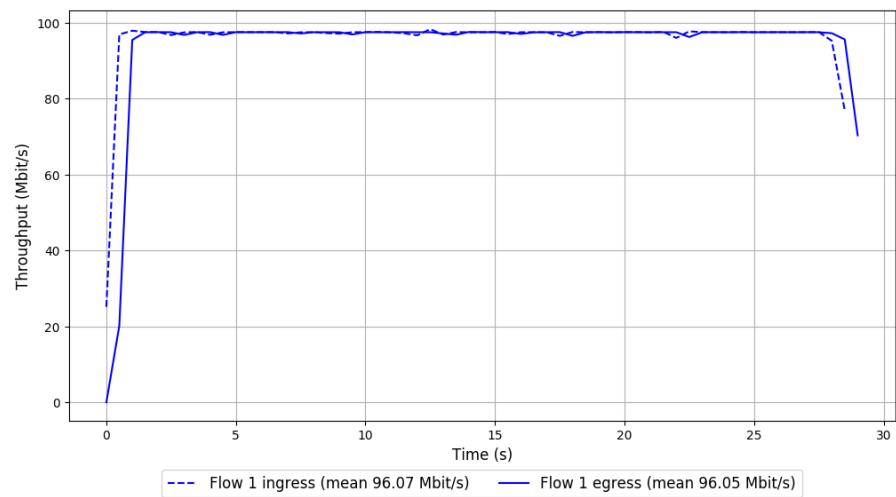
-- Flow 1:

Average throughput: 96.05 Mbit/s

95th percentile per-packet one-way delay: 35.800 ms

Loss rate: 0.24%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-11-24 13:46:04

End at: 2019-11-24 13:46:34

Local clock offset: 2.564 ms

Remote clock offset: 3.791 ms

Below is generated by plot.py at 2019-11-24 15:36:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.62 Mbit/s

95th percentile per-packet one-way delay: 38.106 ms

Loss rate: 0.23%

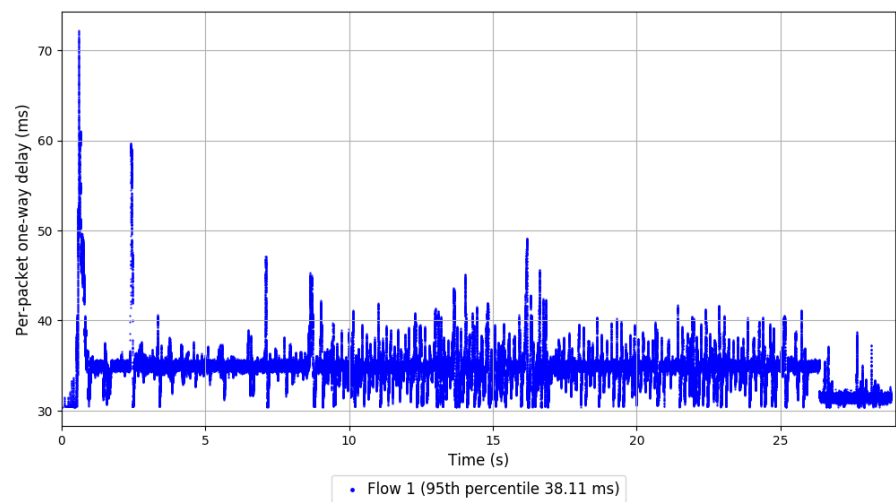
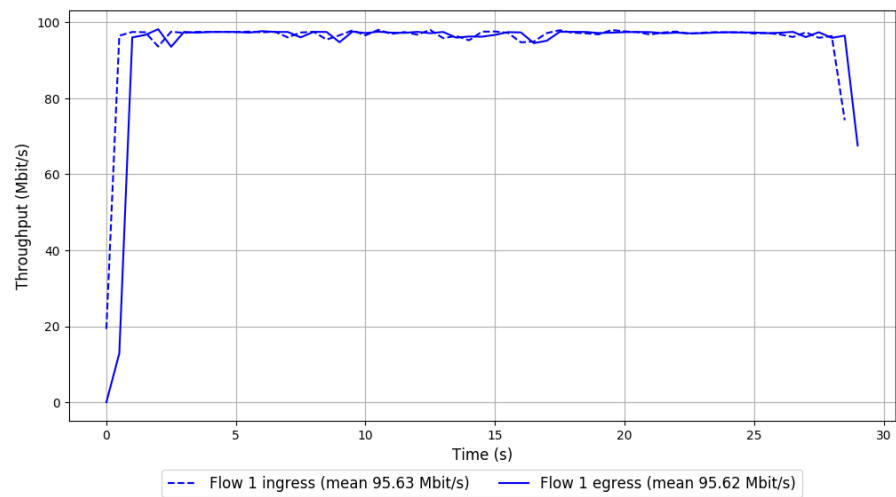
-- Flow 1:

Average throughput: 95.62 Mbit/s

95th percentile per-packet one-way delay: 38.106 ms

Loss rate: 0.23%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-11-24 14:39:16

End at: 2019-11-24 14:39:46

Local clock offset: 3.648 ms

Remote clock offset: 4.049 ms

Below is generated by plot.py at 2019-11-24 15:36:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.56 Mbit/s

95th percentile per-packet one-way delay: 36.223 ms

Loss rate: 0.29%

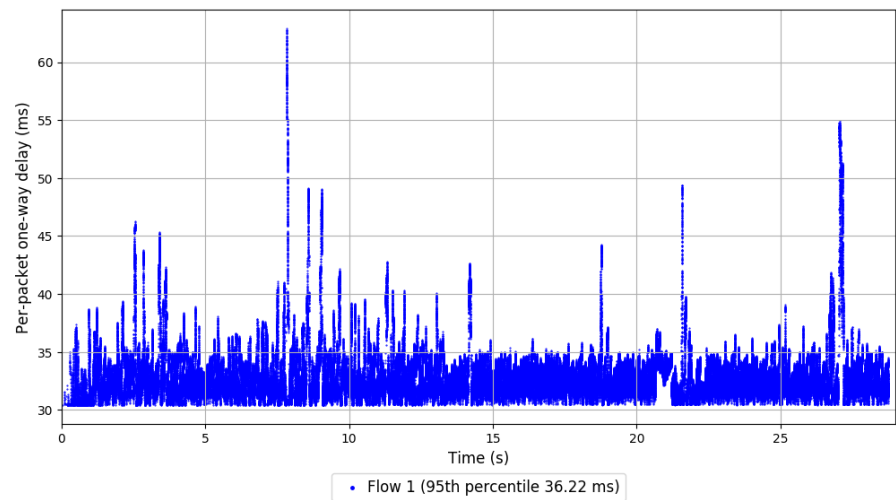
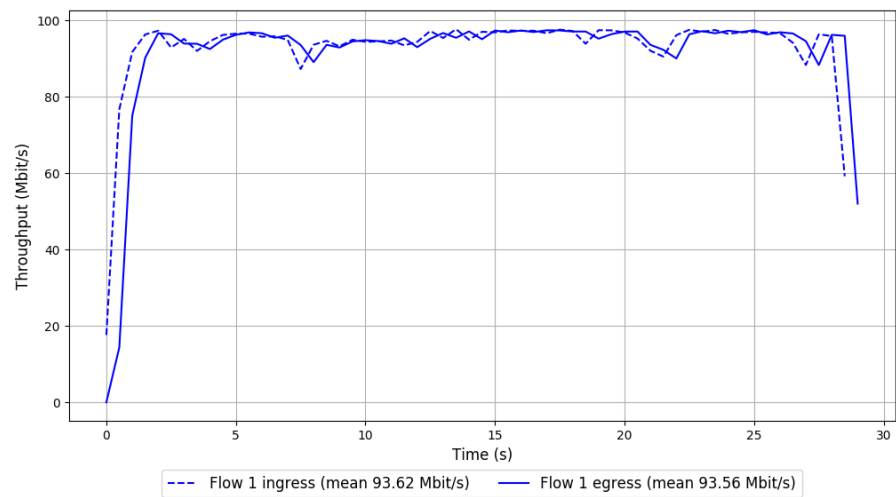
-- Flow 1:

Average throughput: 93.56 Mbit/s

95th percentile per-packet one-way delay: 36.223 ms

Loss rate: 0.29%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-11-24 11:43:33

End at: 2019-11-24 11:44:03

Local clock offset: 2.859 ms

Remote clock offset: 3.973 ms

Below is generated by plot.py at 2019-11-24 15:36:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.18 Mbit/s

95th percentile per-packet one-way delay: 34.794 ms

Loss rate: 0.24%

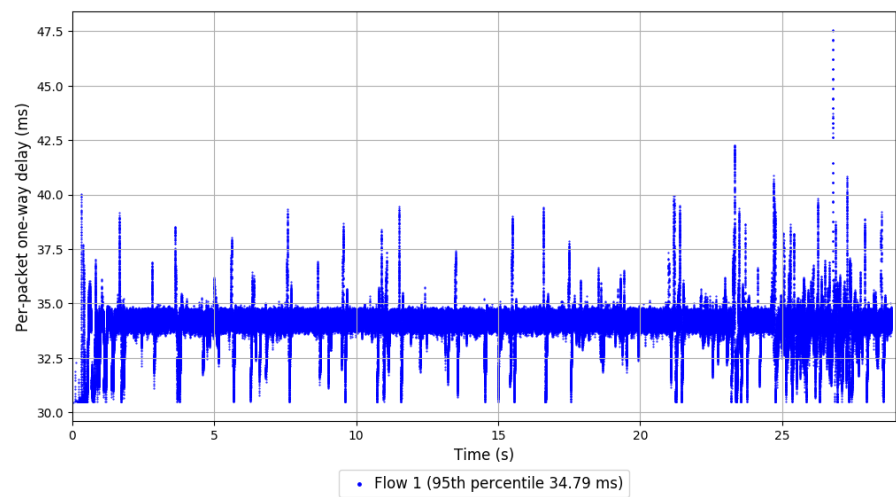
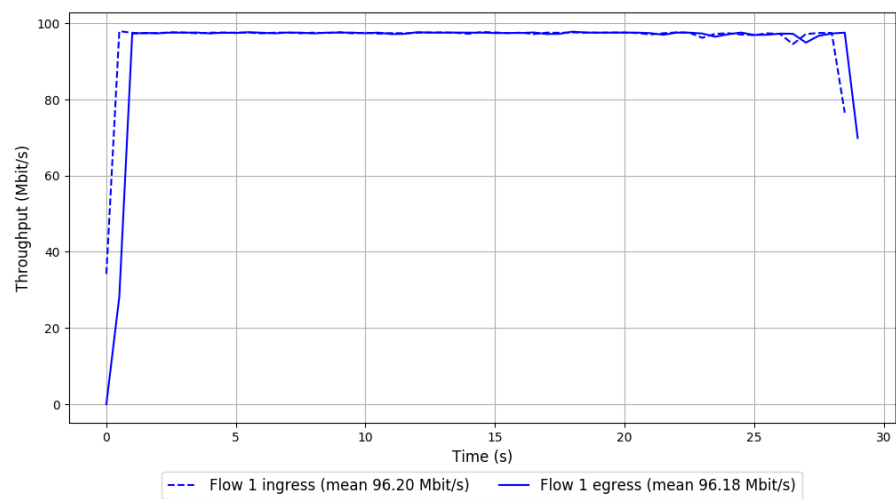
-- Flow 1:

Average throughput: 96.18 Mbit/s

95th percentile per-packet one-way delay: 34.794 ms

Loss rate: 0.24%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-11-24 12:19:53

End at: 2019-11-24 12:20:23

Local clock offset: 3.083 ms

Remote clock offset: 4.546 ms

Below is generated by plot.py at 2019-11-24 15:37:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.87 Mbit/s

95th percentile per-packet one-way delay: 35.201 ms

Loss rate: 0.24%

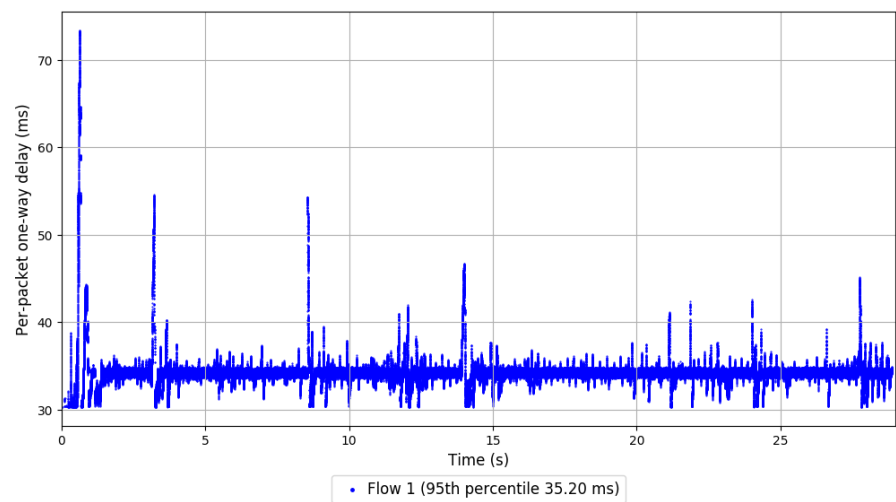
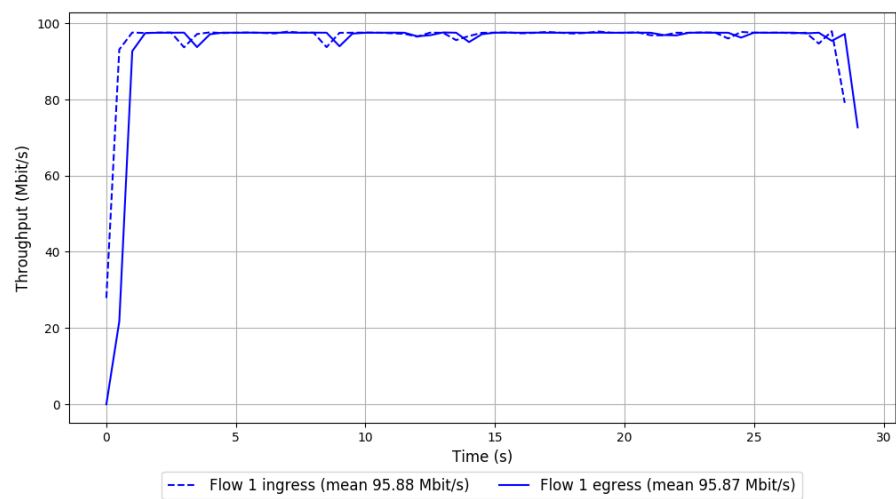
-- Flow 1:

Average throughput: 95.87 Mbit/s

95th percentile per-packet one-way delay: 35.201 ms

Loss rate: 0.24%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-11-24 13:00:15

End at: 2019-11-24 13:00:45

Local clock offset: 3.188 ms

Remote clock offset: 4.434 ms

Below is generated by plot.py at 2019-11-24 15:37:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.79 Mbit/s

95th percentile per-packet one-way delay: 34.883 ms

Loss rate: 0.24%

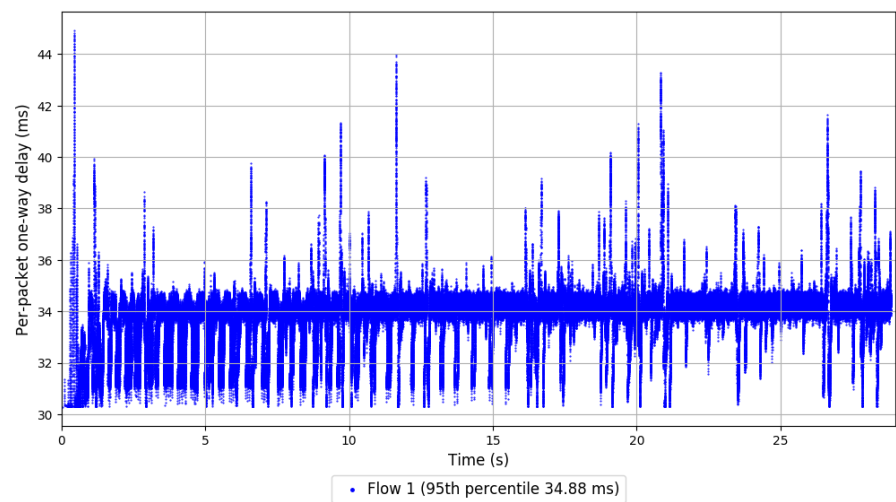
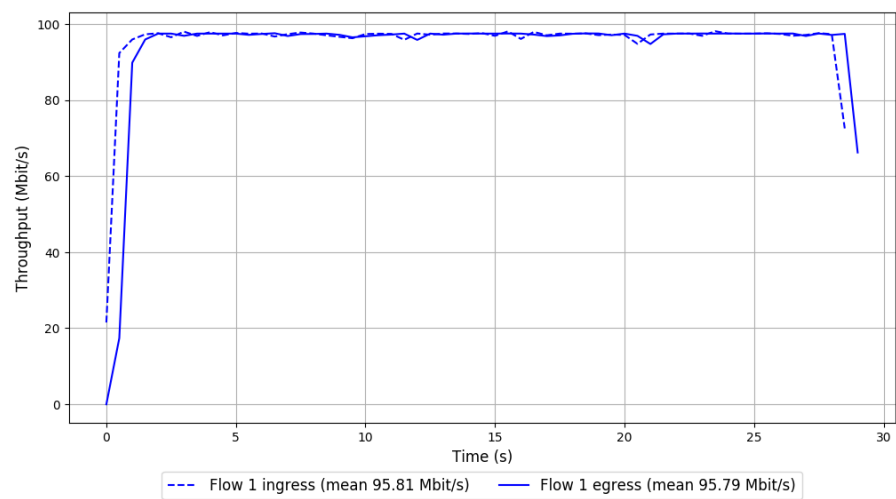
-- Flow 1:

Average throughput: 95.79 Mbit/s

95th percentile per-packet one-way delay: 34.883 ms

Loss rate: 0.24%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-11-24 13:44:00

End at: 2019-11-24 13:44:30

Local clock offset: 2.545 ms

Remote clock offset: 3.875 ms

Below is generated by plot.py at 2019-11-24 15:37:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.96 Mbit/s

95th percentile per-packet one-way delay: 35.578 ms

Loss rate: 0.24%

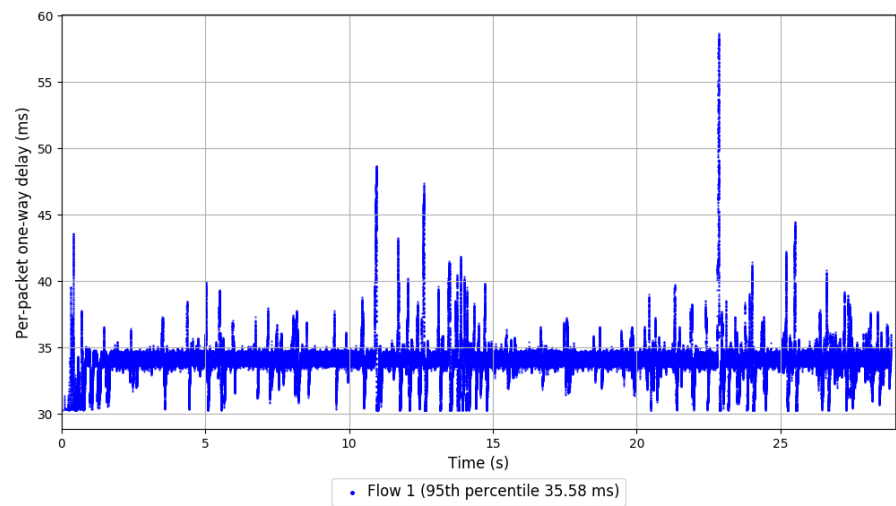
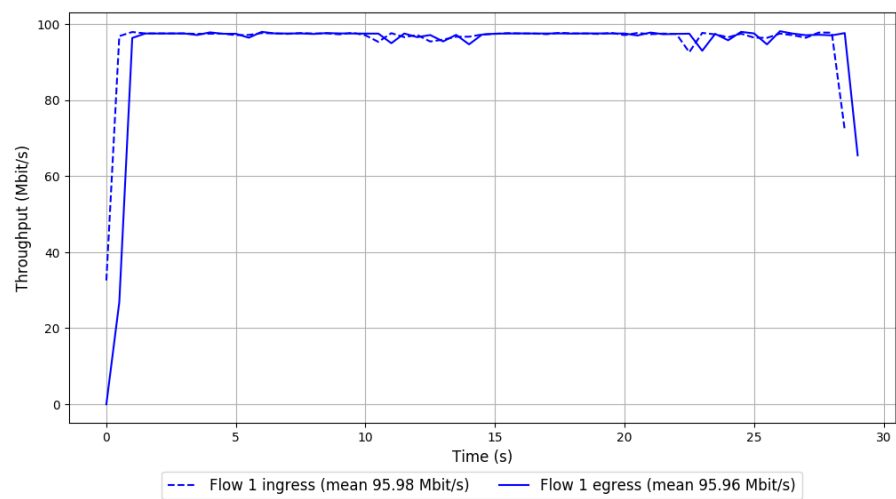
-- Flow 1:

Average throughput: 95.96 Mbit/s

95th percentile per-packet one-way delay: 35.578 ms

Loss rate: 0.24%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-11-24 14:36:39

End at: 2019-11-24 14:37:09

Local clock offset: 3.604 ms

Remote clock offset: 3.954 ms

Below is generated by plot.py at 2019-11-24 15:37:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.04 Mbit/s

95th percentile per-packet one-way delay: 38.358 ms

Loss rate: 0.24%

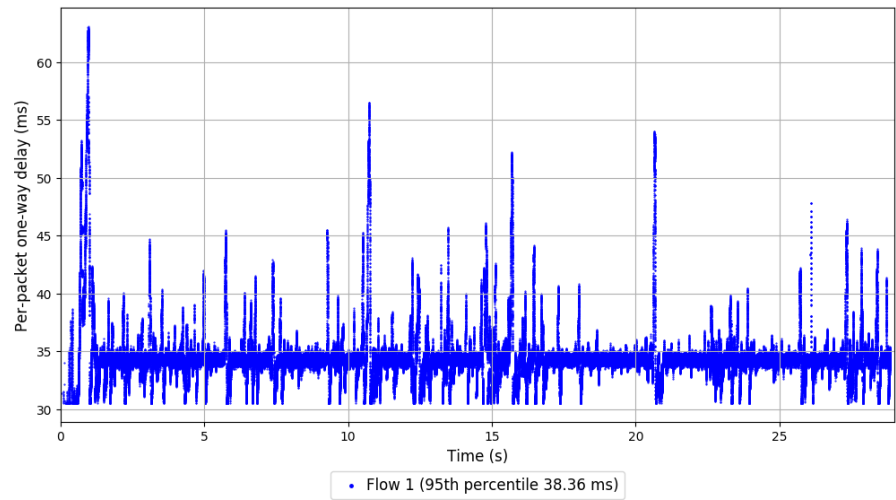
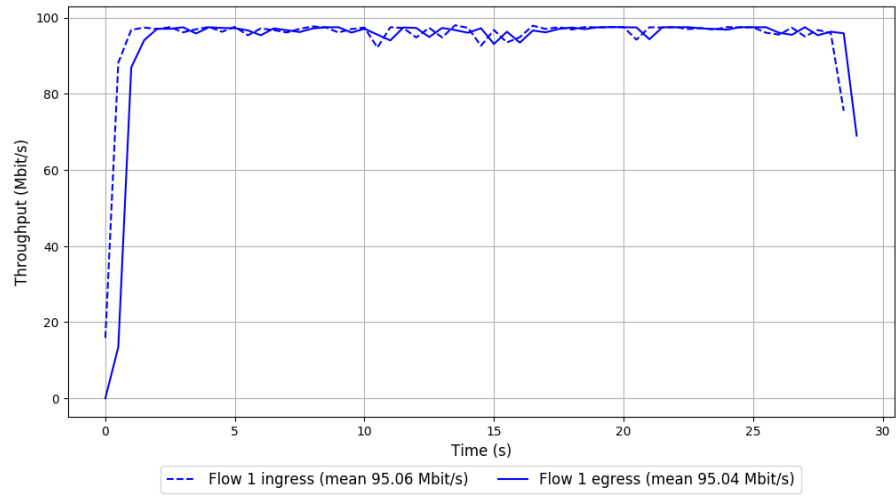
-- Flow 1:

Average throughput: 95.04 Mbit/s

95th percentile per-packet one-way delay: 38.358 ms

Loss rate: 0.24%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-11-24 11:41:51

End at: 2019-11-24 11:42:21

Local clock offset: 2.844 ms

Remote clock offset: 4.078 ms

Below is generated by plot.py at 2019-11-24 15:37:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.51 Mbit/s

95th percentile per-packet one-way delay: 39.173 ms

Loss rate: 0.58%

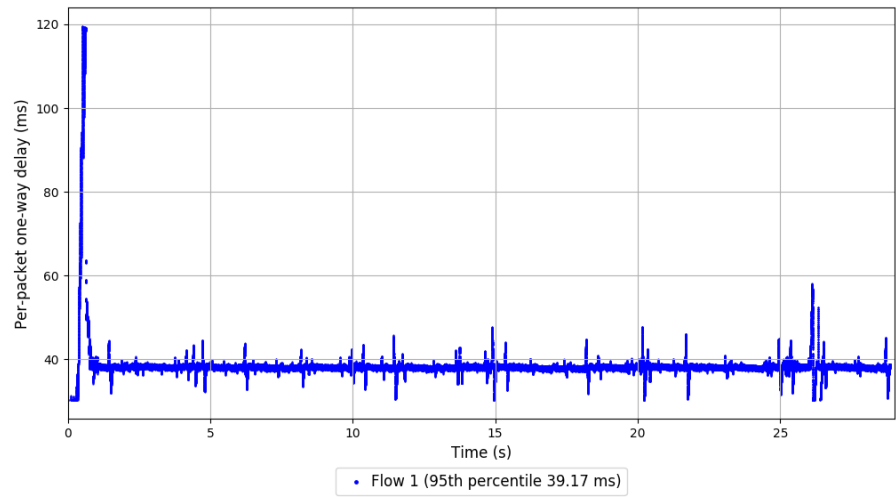
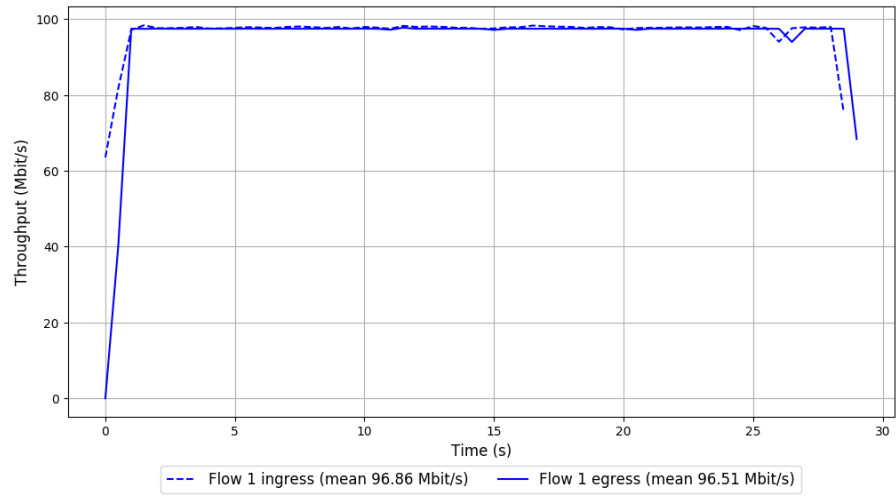
-- Flow 1:

Average throughput: 96.51 Mbit/s

95th percentile per-packet one-way delay: 39.173 ms

Loss rate: 0.58%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-11-24 12:18:25

End at: 2019-11-24 12:18:55

Local clock offset: 3.022 ms

Remote clock offset: 4.621 ms

Below is generated by plot.py at 2019-11-24 15:37:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.02 Mbit/s

95th percentile per-packet one-way delay: 39.820 ms

Loss rate: 0.69%

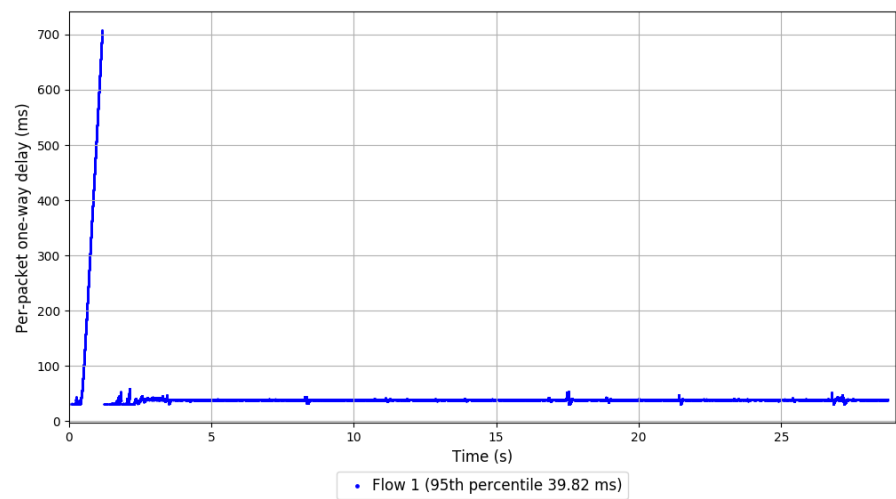
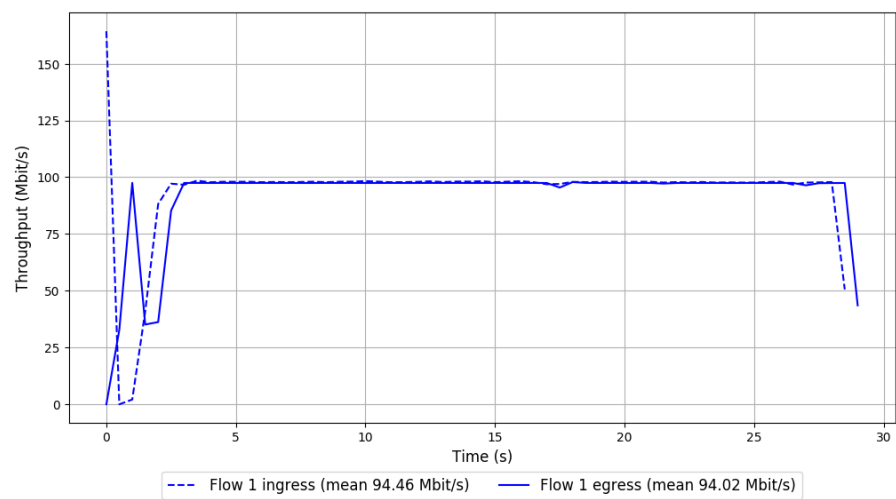
-- Flow 1:

Average throughput: 94.02 Mbit/s

95th percentile per-packet one-way delay: 39.820 ms

Loss rate: 0.69%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-11-24 12:58:56

End at: 2019-11-24 12:59:26

Local clock offset: 3.145 ms

Remote clock offset: 4.504 ms

Below is generated by plot.py at 2019-11-24 15:38:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.46 Mbit/s

95th percentile per-packet one-way delay: 38.725 ms

Loss rate: 0.70%

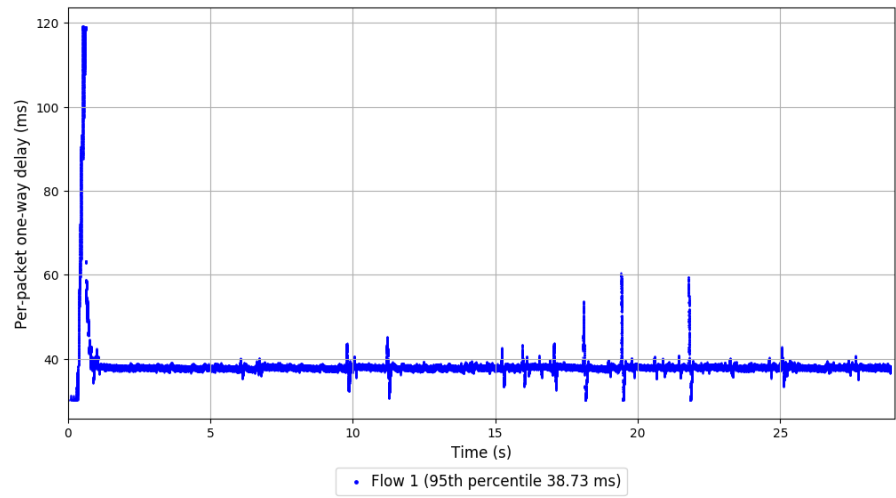
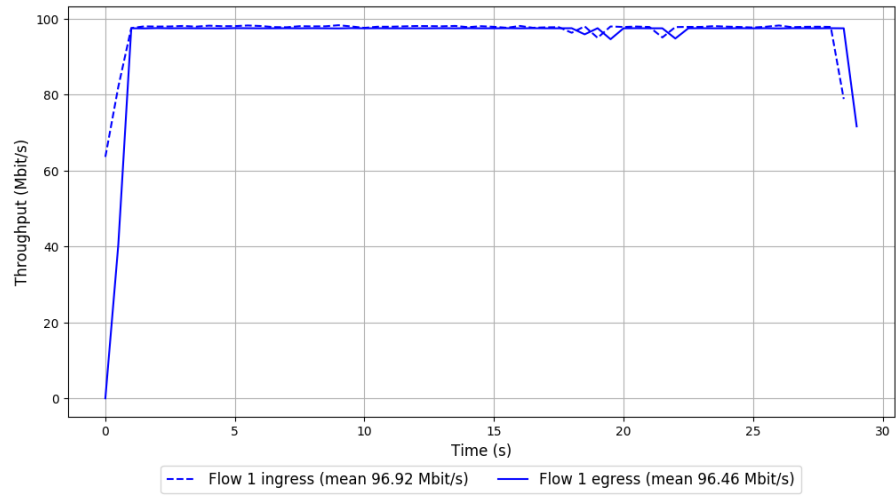
-- Flow 1:

Average throughput: 96.46 Mbit/s

95th percentile per-packet one-way delay: 38.725 ms

Loss rate: 0.70%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-11-24 13:42:08

End at: 2019-11-24 13:42:38

Local clock offset: 2.577 ms

Remote clock offset: 3.91 ms

Below is generated by plot.py at 2019-11-24 15:38:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.95 Mbit/s

95th percentile per-packet one-way delay: 42.468 ms

Loss rate: 0.48%

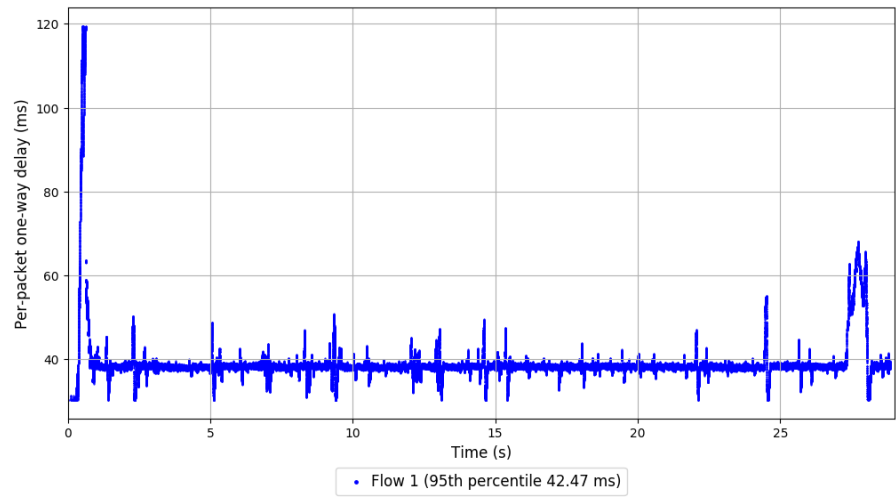
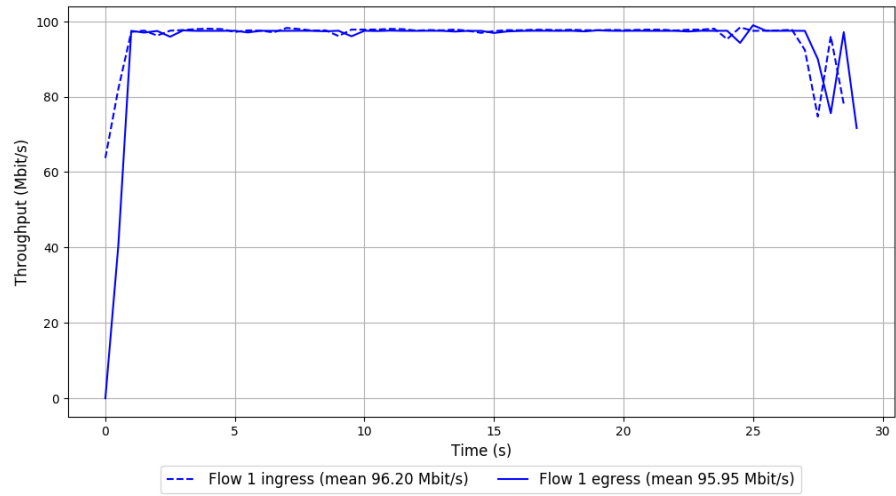
-- Flow 1:

Average throughput: 95.95 Mbit/s

95th percentile per-packet one-way delay: 42.468 ms

Loss rate: 0.48%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-11-24 14:33:46

End at: 2019-11-24 14:34:16

Local clock offset: 3.523 ms

Remote clock offset: 4.013 ms

Below is generated by plot.py at 2019-11-24 15:38:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.97 Mbit/s

95th percentile per-packet one-way delay: 55.506 ms

Loss rate: 0.33%

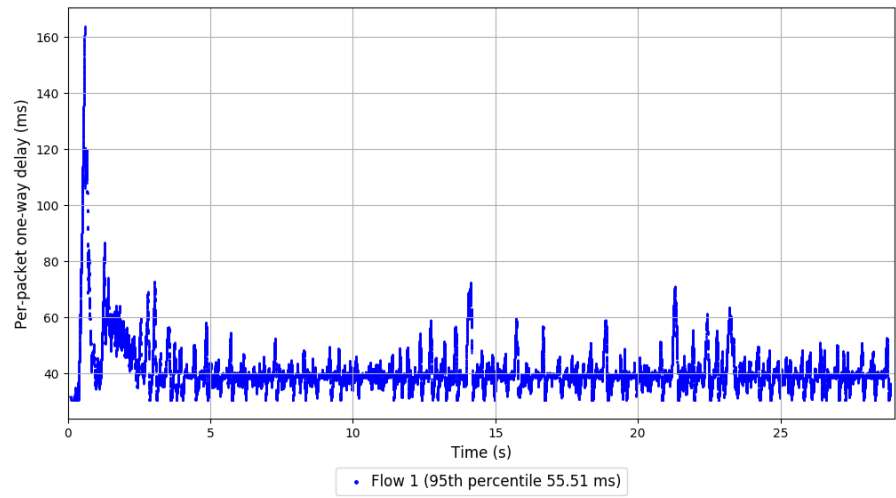
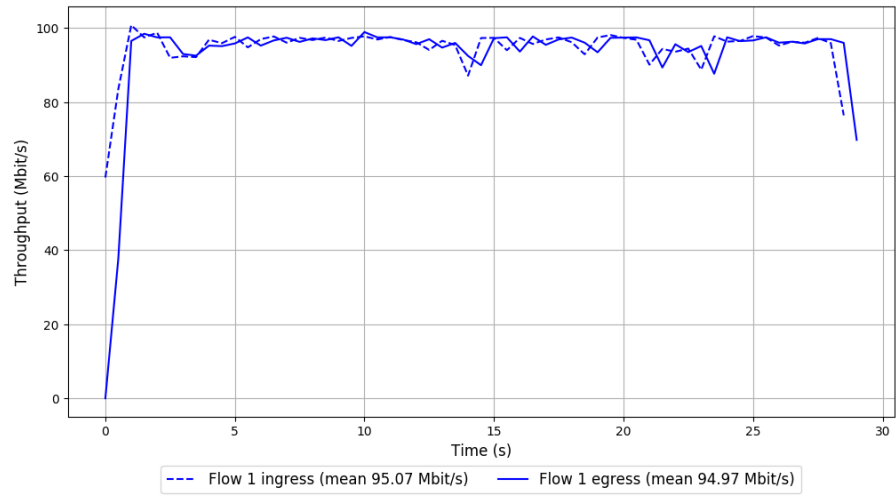
-- Flow 1:

Average throughput: 94.97 Mbit/s

95th percentile per-packet one-way delay: 55.506 ms

Loss rate: 0.33%

Run 5: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2019-11-24 11:40:20

End at: 2019-11-24 11:40:50

Local clock offset: 2.852 ms

Remote clock offset: 4.076 ms

Below is generated by plot.py at 2019-11-24 15:38:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.97 Mbit/s

95th percentile per-packet one-way delay: 36.714 ms

Loss rate: 0.19%

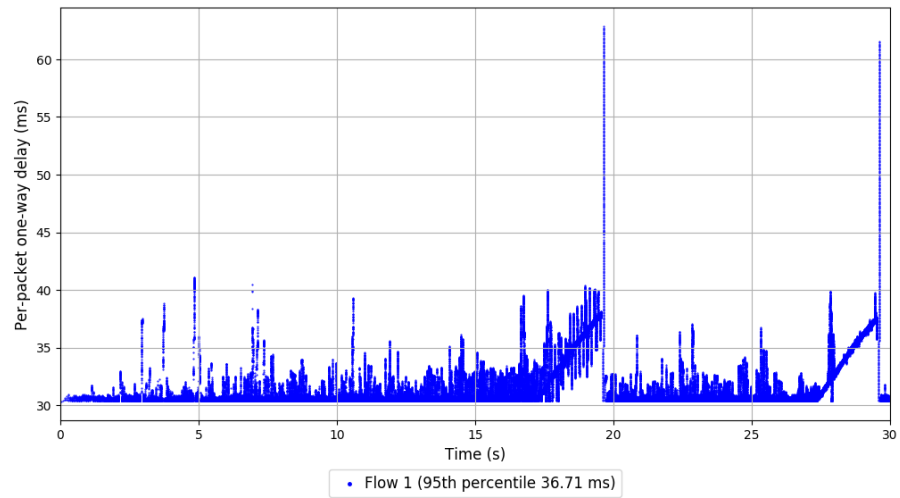
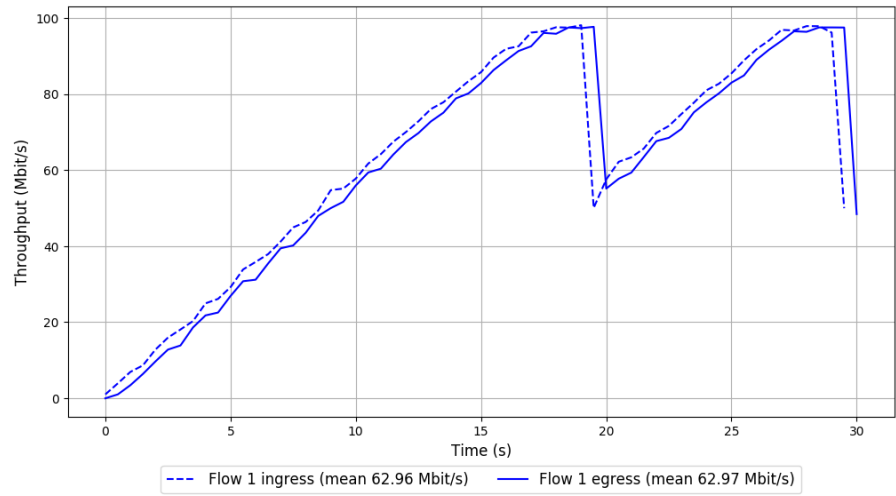
-- Flow 1:

Average throughput: 62.97 Mbit/s

95th percentile per-packet one-way delay: 36.714 ms

Loss rate: 0.19%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-11-24 12:17:03

End at: 2019-11-24 12:17:33

Local clock offset: 3.062 ms

Remote clock offset: 4.59 ms

Below is generated by plot.py at 2019-11-24 15:38:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.40 Mbit/s

95th percentile per-packet one-way delay: 36.825 ms

Loss rate: 0.19%

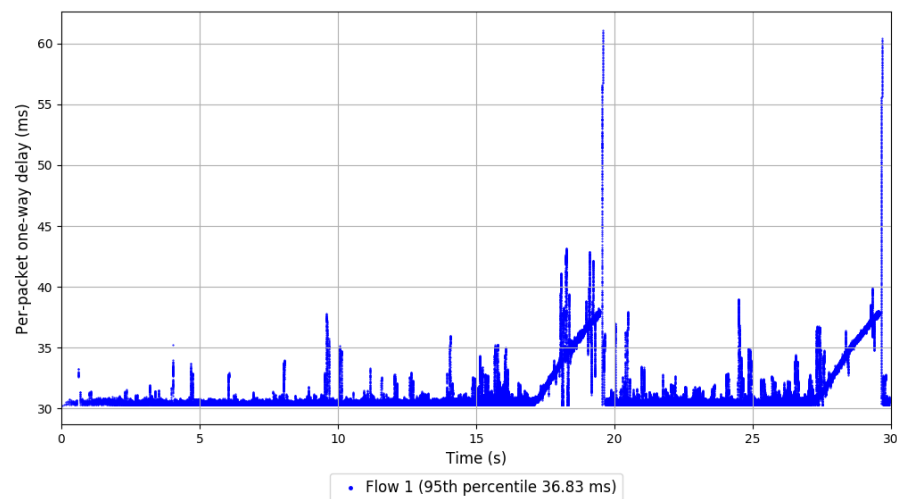
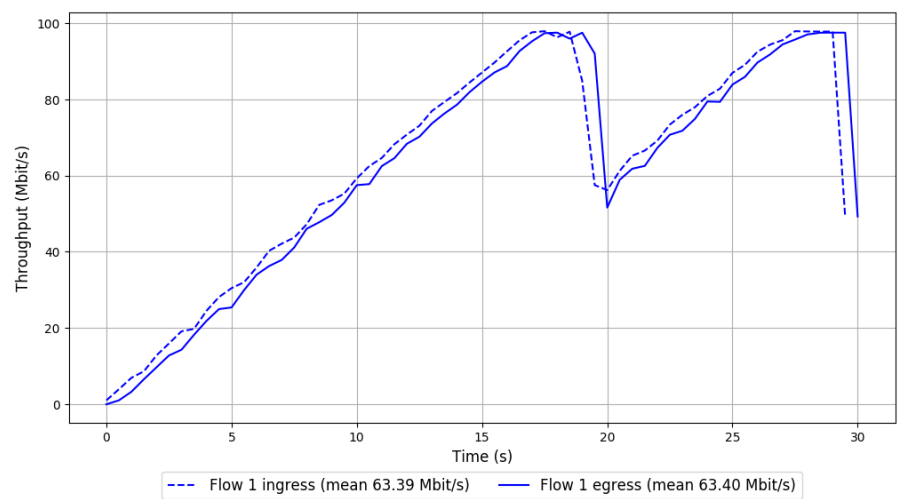
-- Flow 1:

Average throughput: 63.40 Mbit/s

95th percentile per-packet one-way delay: 36.825 ms

Loss rate: 0.19%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-11-24 12:57:18

End at: 2019-11-24 12:57:49

Local clock offset: 3.155 ms

Remote clock offset: 4.415 ms

Below is generated by plot.py at 2019-11-24 15:38:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.25 Mbit/s

95th percentile per-packet one-way delay: 36.674 ms

Loss rate: 0.19%

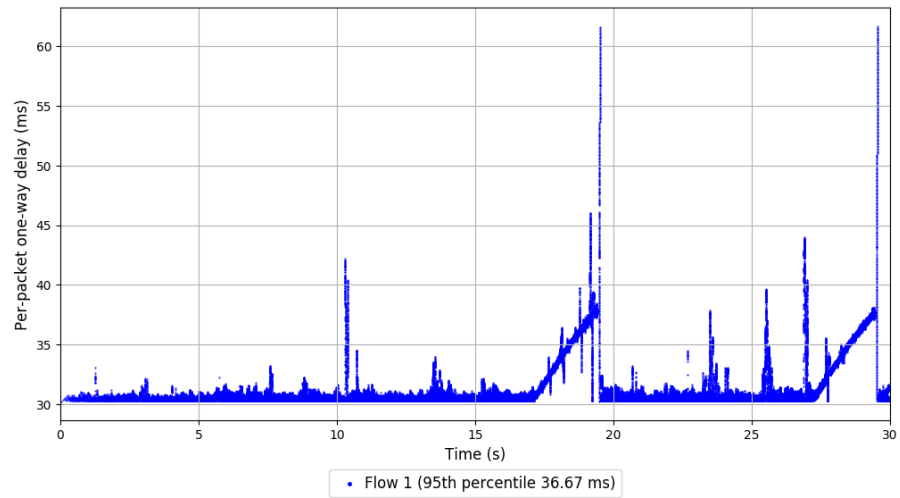
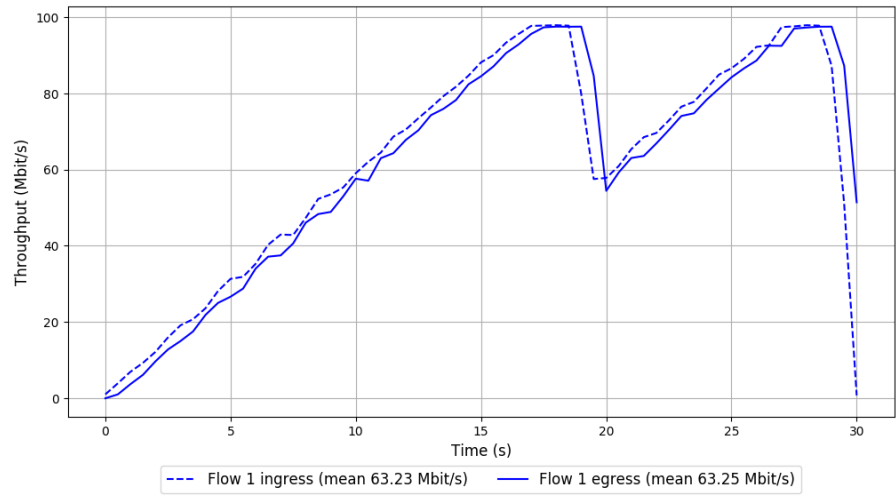
-- Flow 1:

Average throughput: 63.25 Mbit/s

95th percentile per-packet one-way delay: 36.674 ms

Loss rate: 0.19%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-11-24 13:40:14

End at: 2019-11-24 13:40:44

Local clock offset: 2.58 ms

Remote clock offset: 3.969 ms

Below is generated by plot.py at 2019-11-24 15:38:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.86 Mbit/s

95th percentile per-packet one-way delay: 37.210 ms

Loss rate: 0.19%

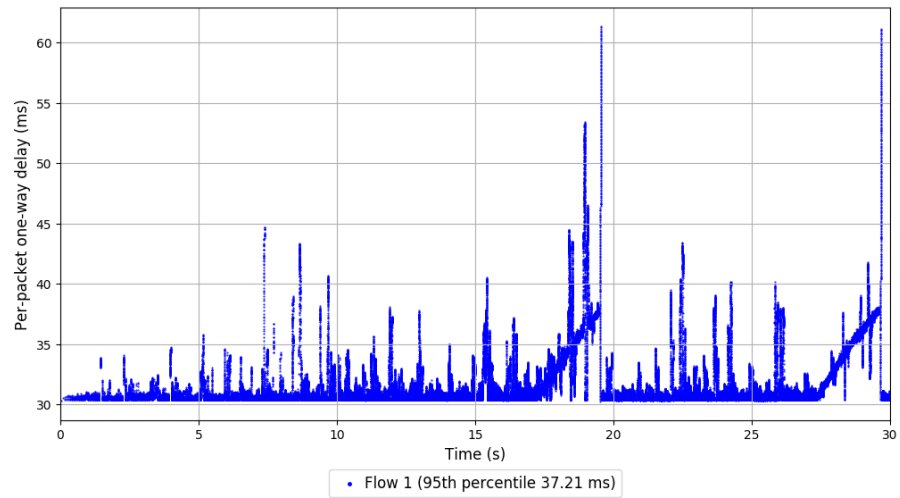
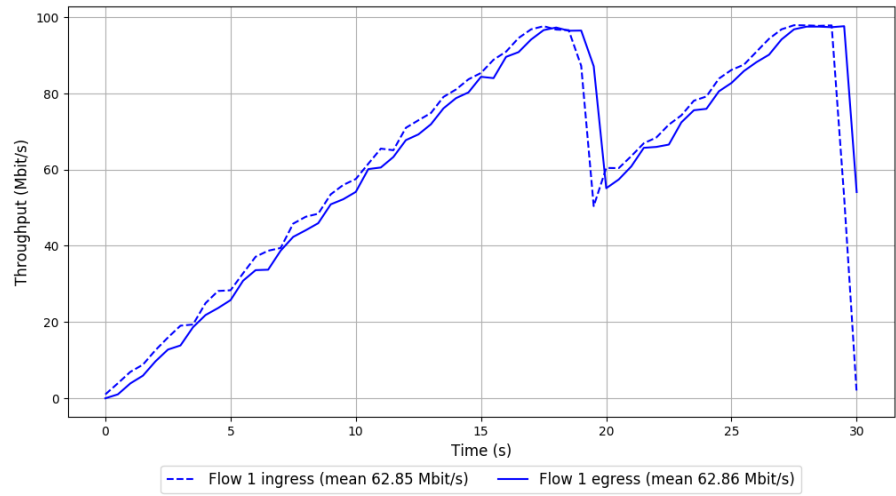
-- Flow 1:

Average throughput: 62.86 Mbit/s

95th percentile per-packet one-way delay: 37.210 ms

Loss rate: 0.19%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-11-24 14:30:06

End at: 2019-11-24 14:30:36

Local clock offset: 3.442 ms

Remote clock offset: 3.993 ms

Below is generated by plot.py at 2019-11-24 15:38:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.59 Mbit/s

95th percentile per-packet one-way delay: 38.120 ms

Loss rate: 0.37%

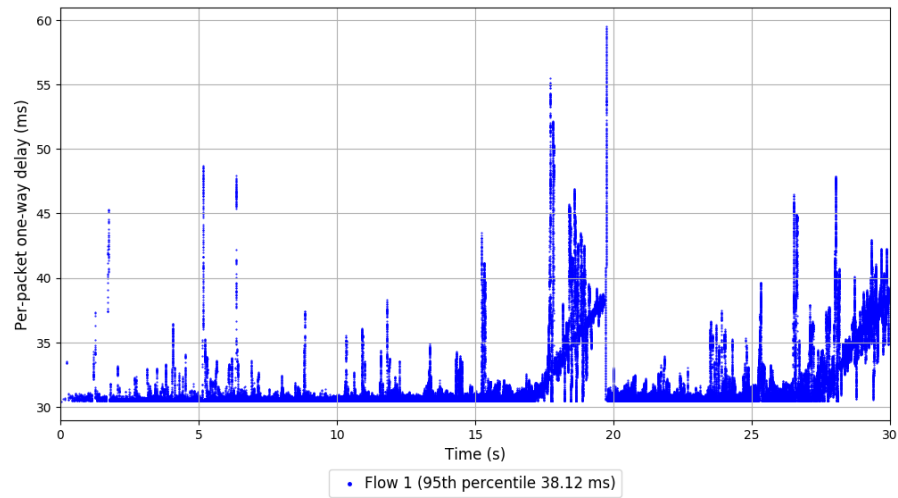
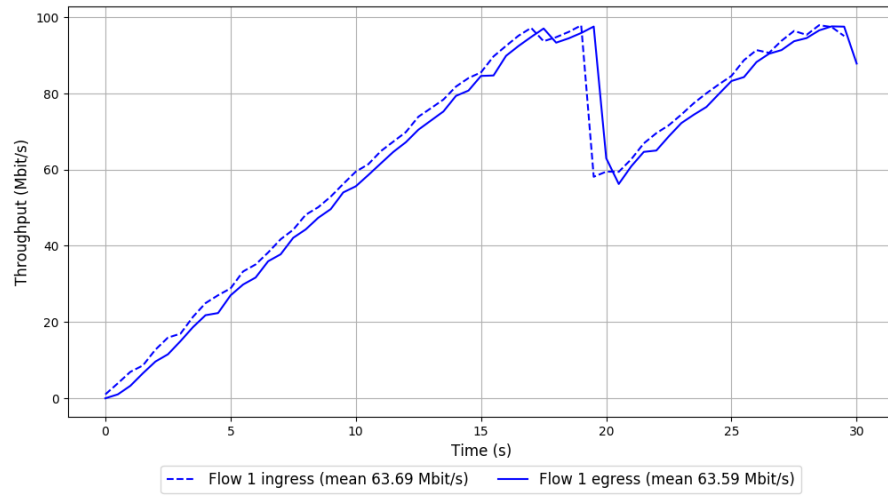
-- Flow 1:

Average throughput: 63.59 Mbit/s

95th percentile per-packet one-way delay: 38.120 ms

Loss rate: 0.37%

Run 5: Report of LEDBAT — Data Link

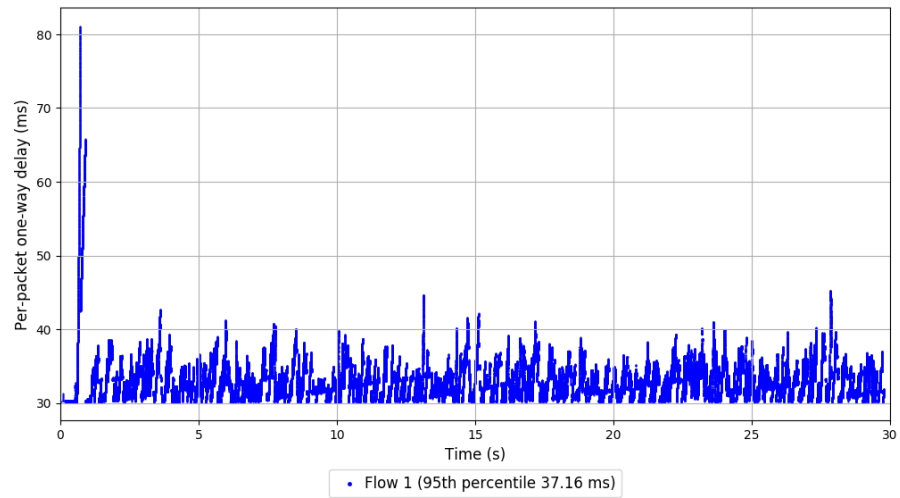
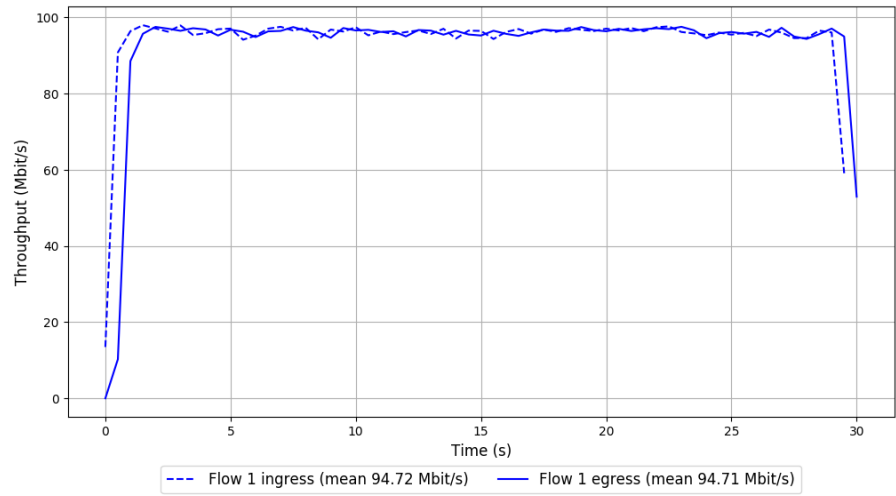


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-11-24 11:55:02
End at: 2019-11-24 11:55:32
Local clock offset: 2.875 ms
Remote clock offset: 4.187 ms

# Below is generated by plot.py at 2019-11-24 15:39:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.71 Mbit/s
95th percentile per-packet one-way delay: 37.156 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 94.71 Mbit/s
95th percentile per-packet one-way delay: 37.156 ms
Loss rate: 0.23%
```

Run 1: Report of Muses_DecisionTree — Data Link



Run 2: Statistics of Muses_DecisionTree

Start at: 2019-11-24 12:31:28

End at: 2019-11-24 12:31:58

Local clock offset: 3.104 ms

Remote clock offset: 4.654 ms

Below is generated by plot.py at 2019-11-24 15:39:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.51 Mbit/s

95th percentile per-packet one-way delay: 37.310 ms

Loss rate: 0.22%

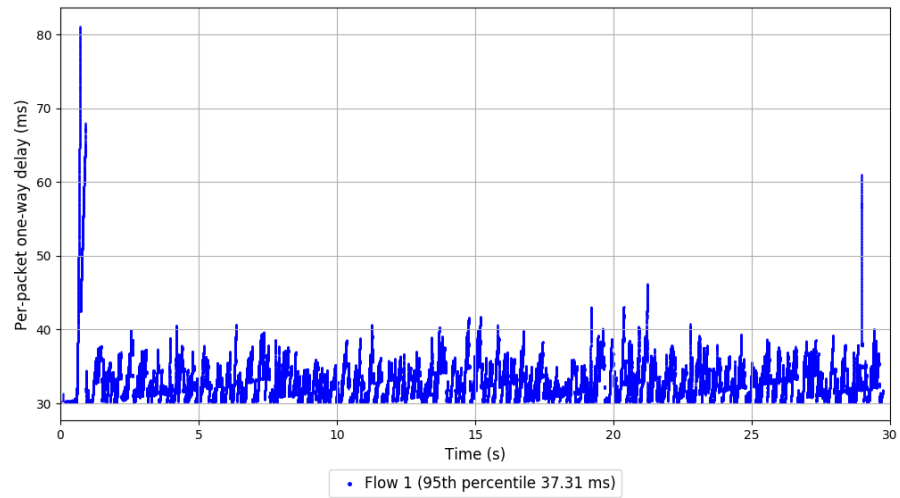
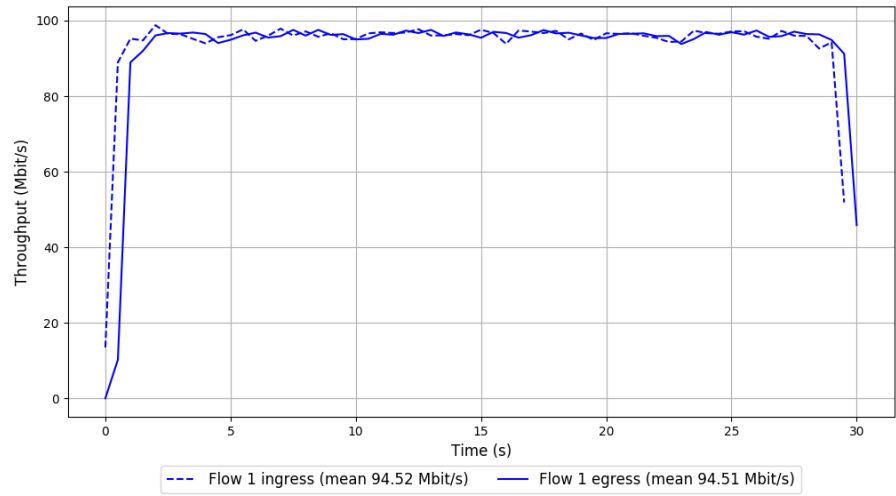
-- Flow 1:

Average throughput: 94.51 Mbit/s

95th percentile per-packet one-way delay: 37.310 ms

Loss rate: 0.22%

Run 2: Report of Muses_DecisionTree — Data Link



Run 3: Statistics of Muses_DecisionTree

Start at: 2019-11-24 13:12:25

End at: 2019-11-24 13:12:55

Local clock offset: 3.03 ms

Remote clock offset: 4.333 ms

Below is generated by plot.py at 2019-11-24 15:39:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.19 Mbit/s

95th percentile per-packet one-way delay: 38.719 ms

Loss rate: 0.24%

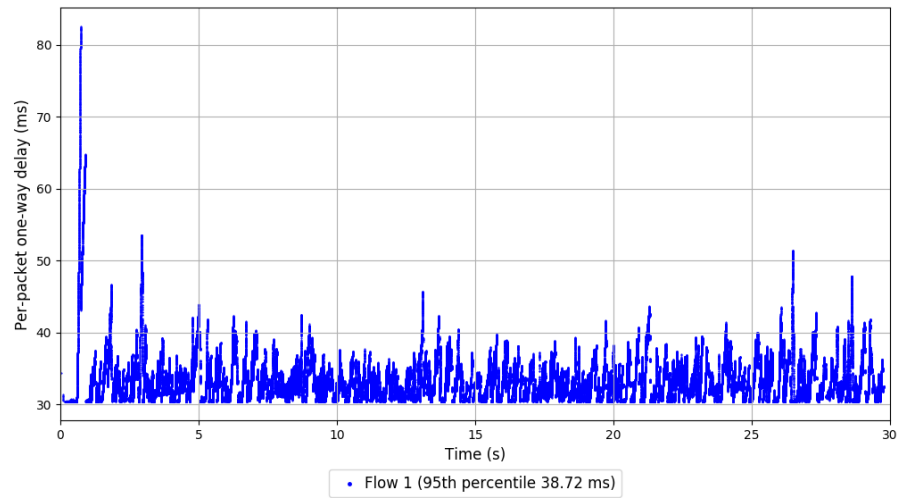
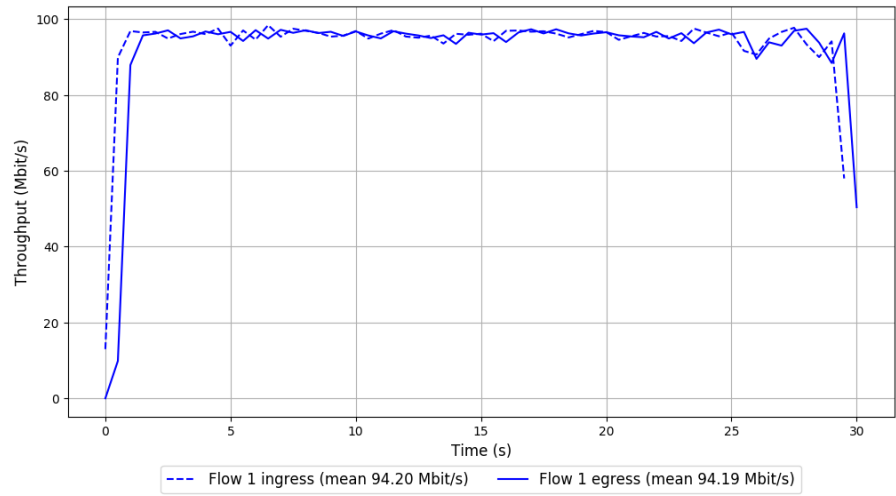
-- Flow 1:

Average throughput: 94.19 Mbit/s

95th percentile per-packet one-way delay: 38.719 ms

Loss rate: 0.24%

Run 3: Report of Muses_DecisionTree — Data Link



Run 4: Statistics of Muses_DecisionTree

Start at: 2019-11-24 13:56:30

End at: 2019-11-24 13:57:00

Local clock offset: 2.473 ms

Remote clock offset: 3.699 ms

Below is generated by plot.py at 2019-11-24 15:39:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.07 Mbit/s

95th percentile per-packet one-way delay: 37.316 ms

Loss rate: 0.23%

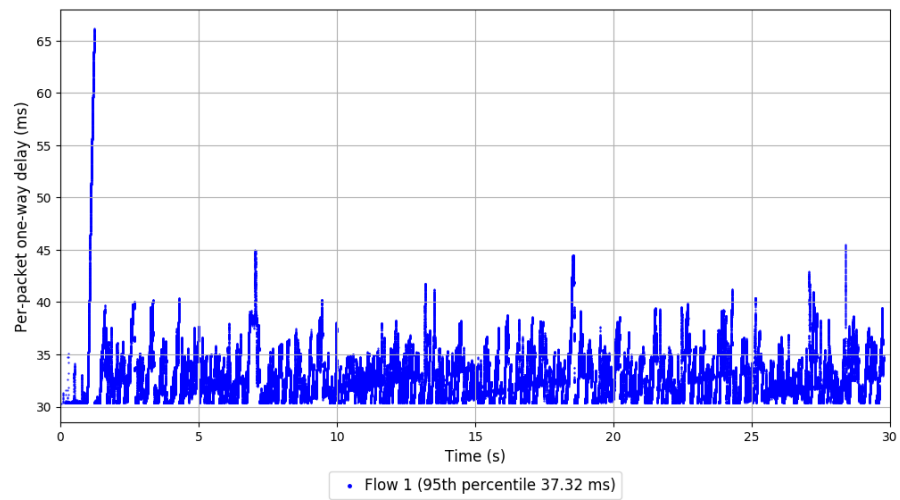
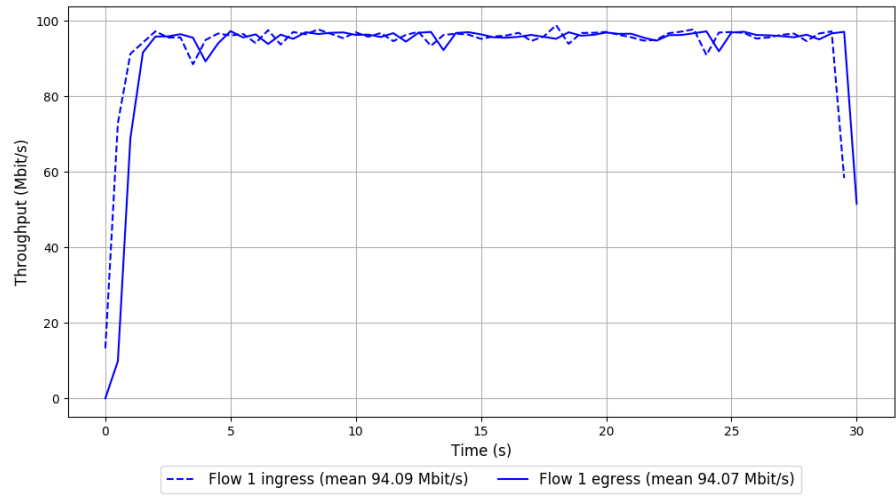
-- Flow 1:

Average throughput: 94.07 Mbit/s

95th percentile per-packet one-way delay: 37.316 ms

Loss rate: 0.23%

Run 4: Report of Muses_DecisionTree — Data Link



Run 5: Statistics of Muses_DecisionTree

Start at: 2019-11-24 14:53:09

End at: 2019-11-24 14:53:39

Local clock offset: 3.401 ms

Remote clock offset: 4.103 ms

Below is generated by plot.py at 2019-11-24 15:39:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.64 Mbit/s

95th percentile per-packet one-way delay: 38.616 ms

Loss rate: 0.23%

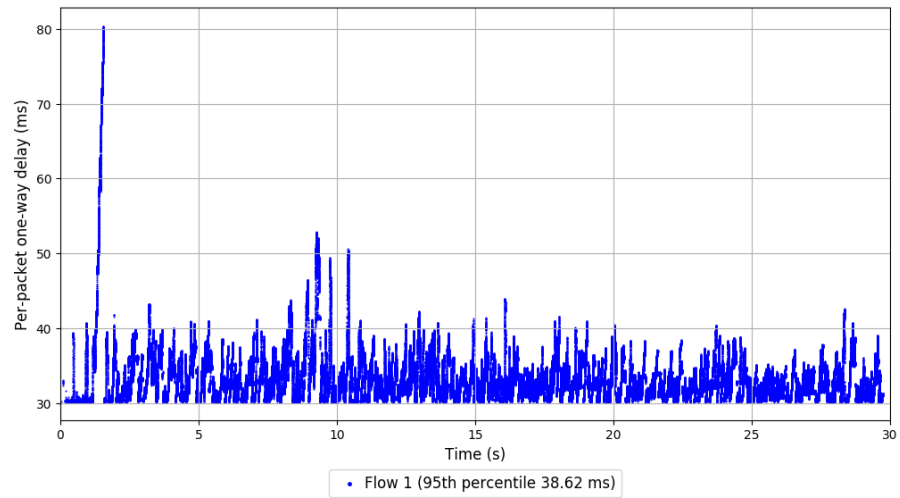
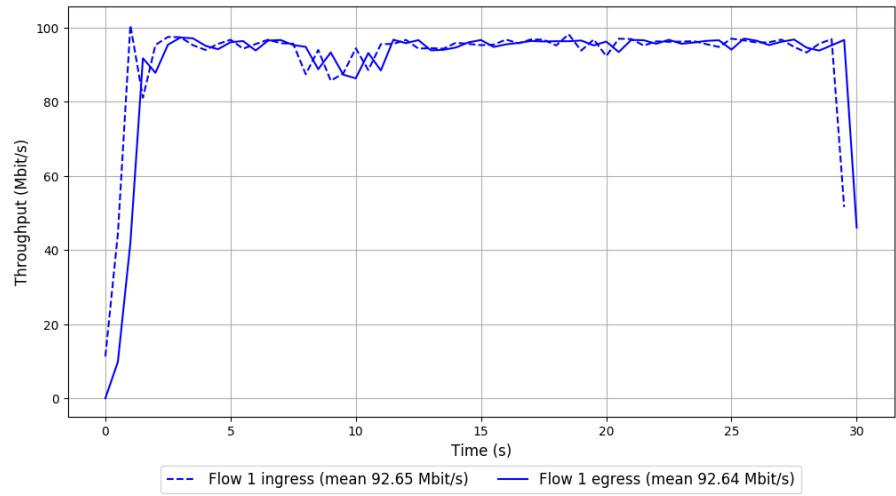
-- Flow 1:

Average throughput: 92.64 Mbit/s

95th percentile per-packet one-way delay: 38.616 ms

Loss rate: 0.23%

Run 5: Report of Muses_DecisionTree — Data Link

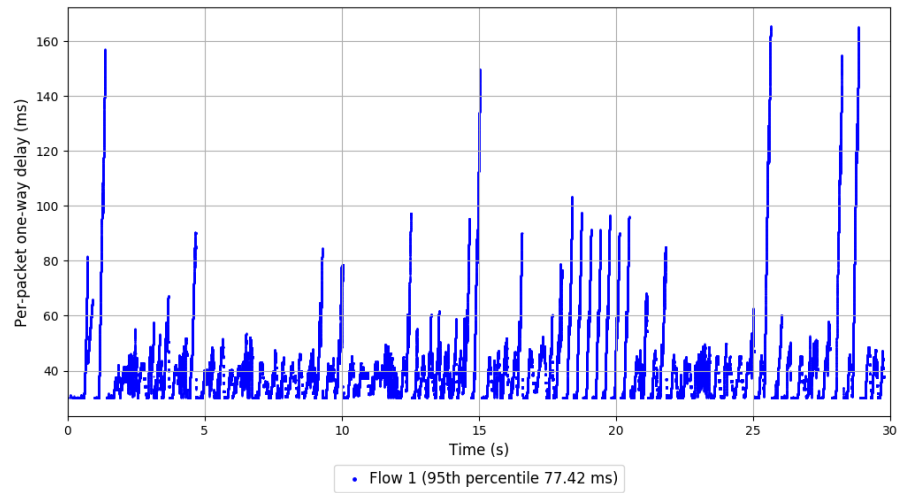
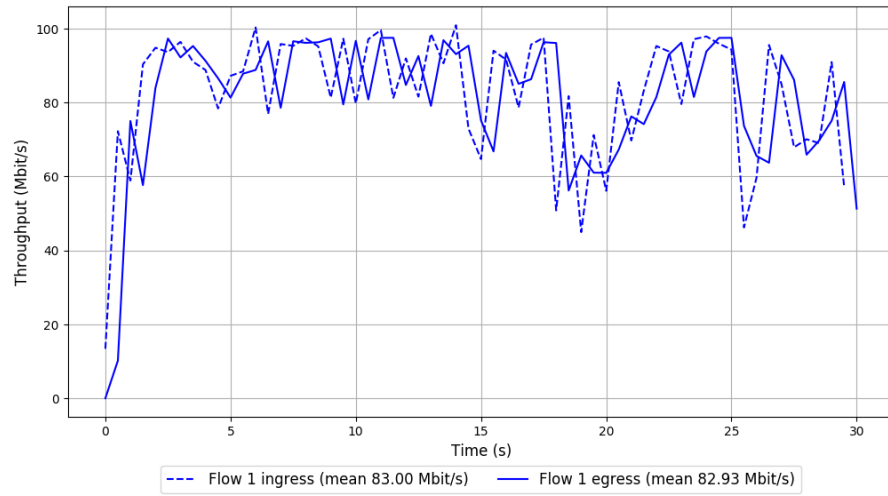



```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-11-24 11:53:29
End at: 2019-11-24 11:53:59
Local clock offset: 2.877 ms
Remote clock offset: 4.2 ms

# Below is generated by plot.py at 2019-11-24 15:39:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.93 Mbit/s
95th percentile per-packet one-way delay: 77.425 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 82.93 Mbit/s
95th percentile per-packet one-way delay: 77.425 ms
Loss rate: 0.30%
```

Run 1: Report of Muses_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2019-11-24 12:29:36

End at: 2019-11-24 12:30:06

Local clock offset: 3.134 ms

Remote clock offset: 4.579 ms

Below is generated by plot.py at 2019-11-24 15:39:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.80 Mbit/s

95th percentile per-packet one-way delay: 64.594 ms

Loss rate: 0.31%

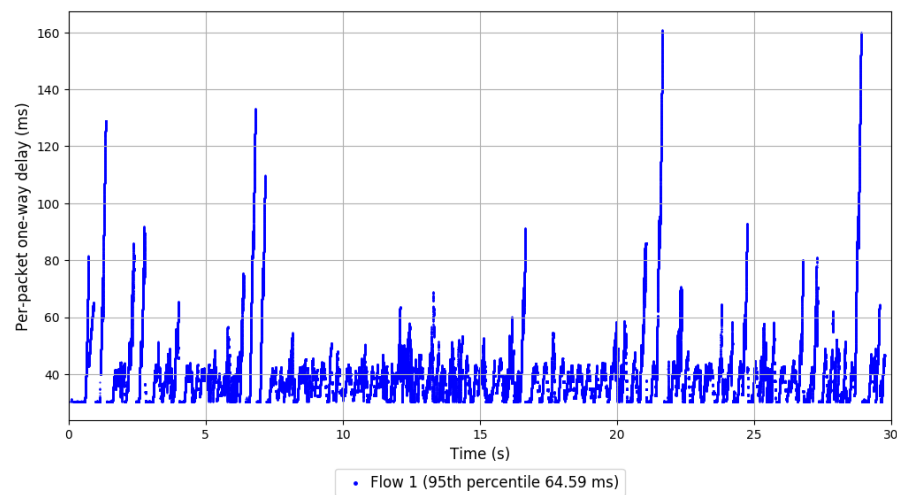
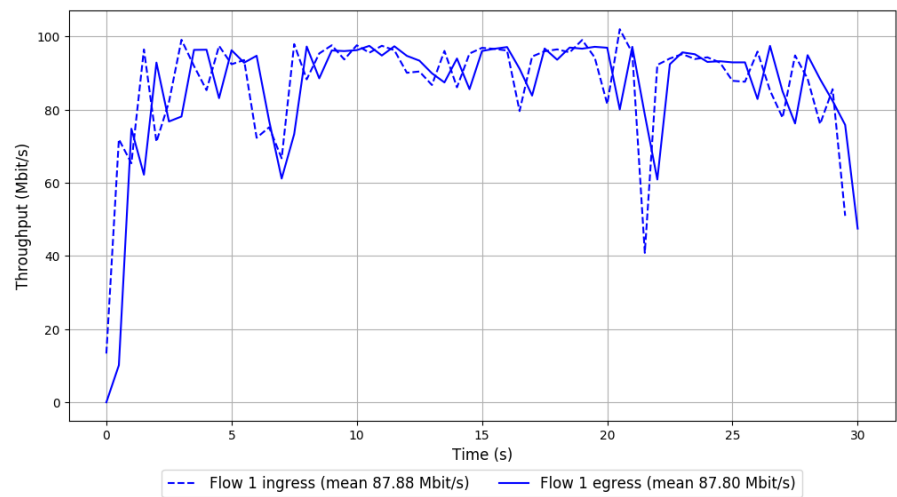
-- Flow 1:

Average throughput: 87.80 Mbit/s

95th percentile per-packet one-way delay: 64.594 ms

Loss rate: 0.31%

Run 2: Report of Muses_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2019-11-24 13:10:53

End at: 2019-11-24 13:11:23

Local clock offset: 3.077 ms

Remote clock offset: 4.371 ms

Below is generated by plot.py at 2019-11-24 15:39:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.52 Mbit/s

95th percentile per-packet one-way delay: 63.031 ms

Loss rate: 0.31%

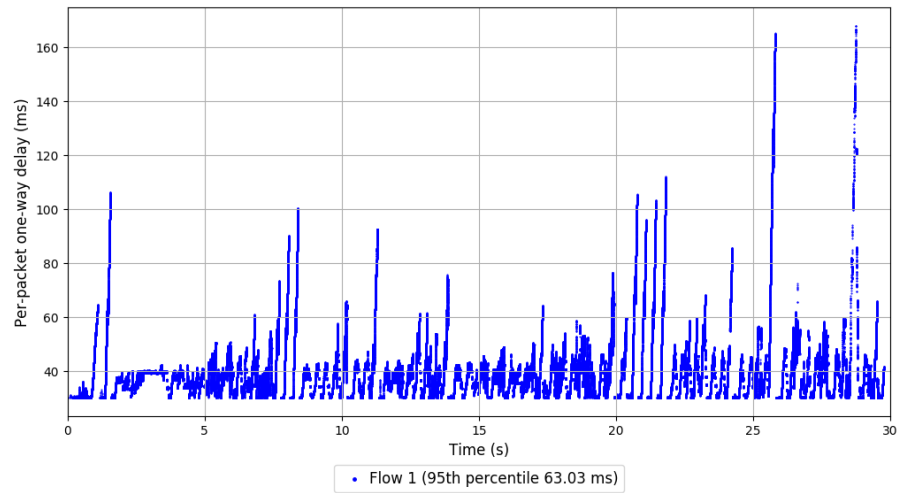
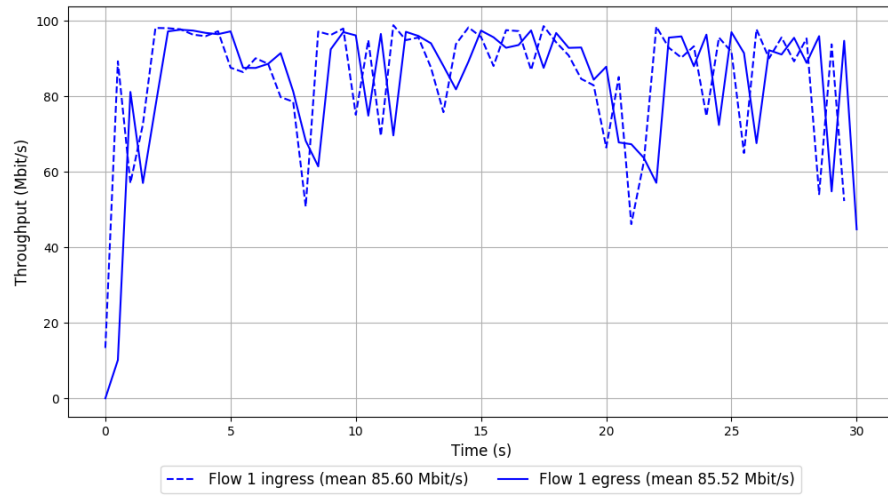
-- Flow 1:

Average throughput: 85.52 Mbit/s

95th percentile per-packet one-way delay: 63.031 ms

Loss rate: 0.31%

Run 3: Report of Muses_DecisionTreeH0 — Data Link



Run 4: Statistics of Muses_DecisionTreeH0

Start at: 2019-11-24 13:55:07

End at: 2019-11-24 13:55:37

Local clock offset: 2.494 ms

Remote clock offset: 3.646 ms

Below is generated by plot.py at 2019-11-24 15:40:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.23 Mbit/s

95th percentile per-packet one-way delay: 69.916 ms

Loss rate: 0.16%

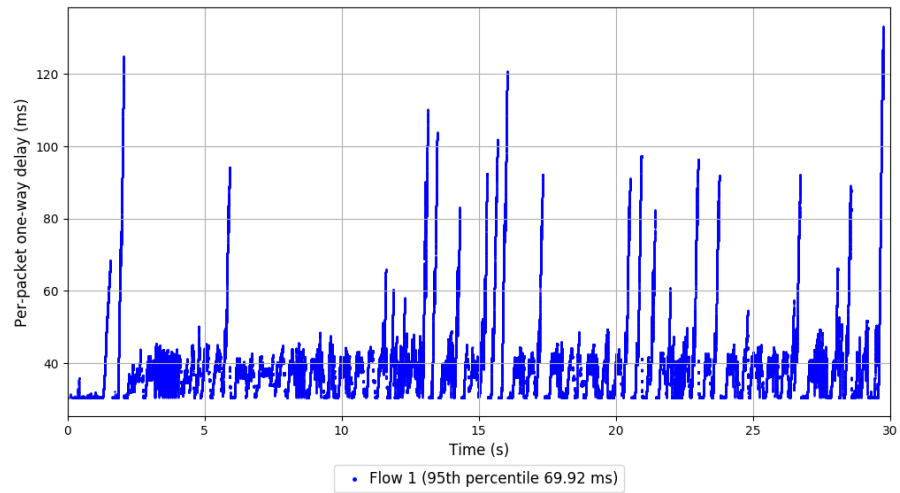
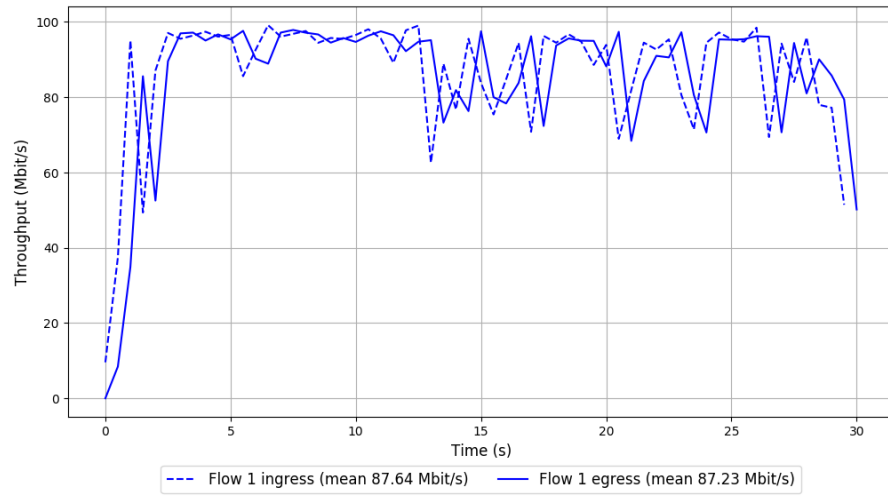
-- Flow 1:

Average throughput: 87.23 Mbit/s

95th percentile per-packet one-way delay: 69.916 ms

Loss rate: 0.16%

Run 4: Report of Muses_DecisionTreeH0 — Data Link



Run 5: Statistics of Muses_DecisionTreeH0

Start at: 2019-11-24 14:50:40

End at: 2019-11-24 14:51:10

Local clock offset: 3.424 ms

Remote clock offset: 4.041 ms

Below is generated by plot.py at 2019-11-24 15:40:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.53 Mbit/s

95th percentile per-packet one-way delay: 67.429 ms

Loss rate: 0.26%

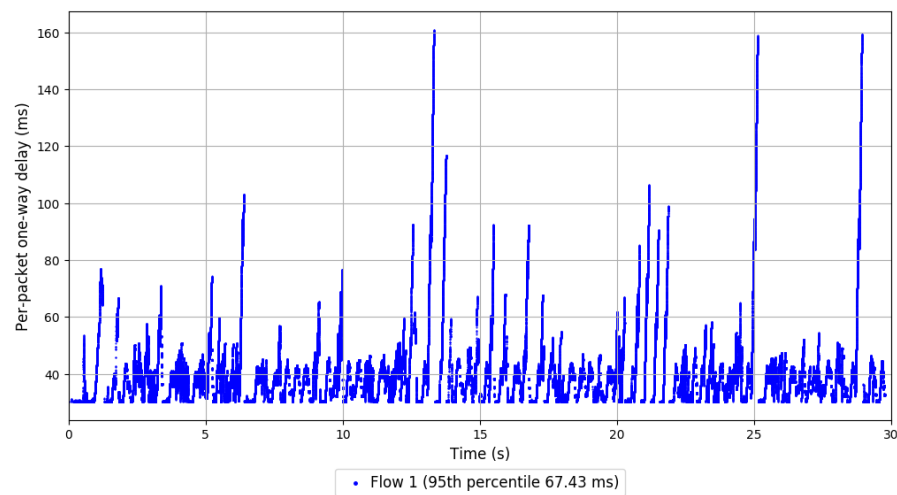
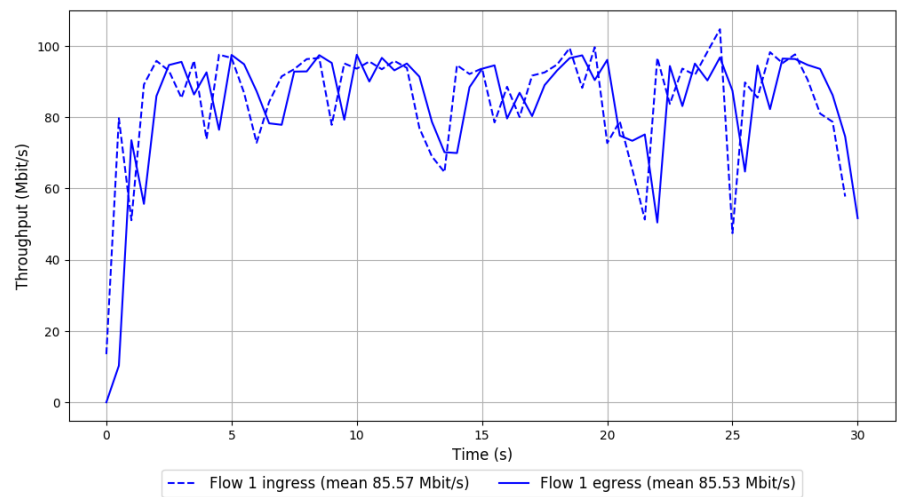
-- Flow 1:

Average throughput: 85.53 Mbit/s

95th percentile per-packet one-way delay: 67.429 ms

Loss rate: 0.26%

Run 5: Report of Muses_DecisionTreeH0 — Data Link

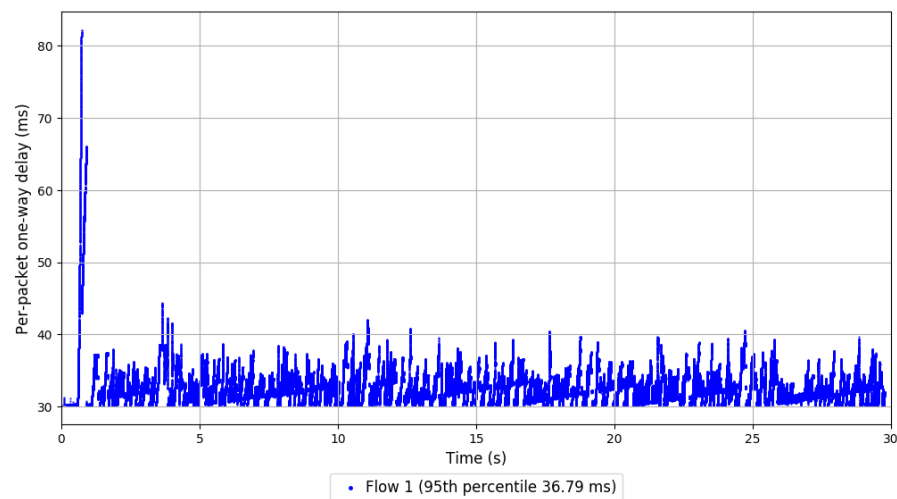
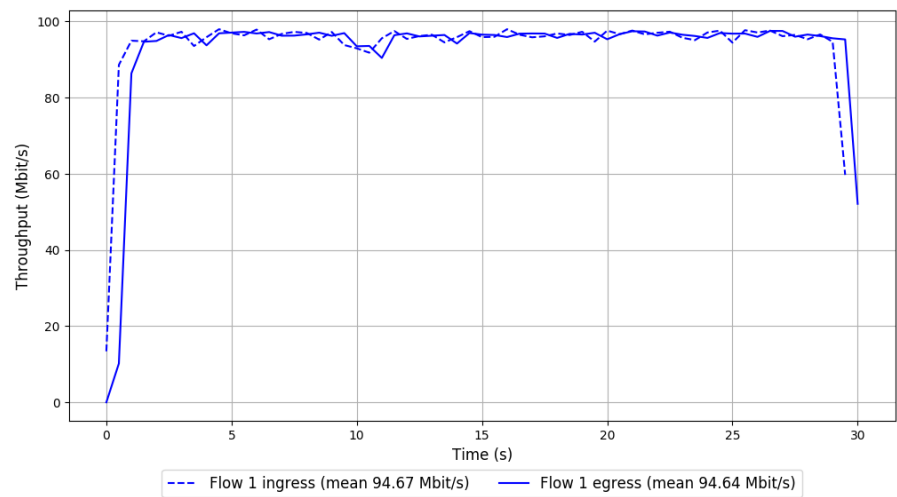


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-11-24 11:50:49
End at: 2019-11-24 11:51:19
Local clock offset: 2.871 ms
Remote clock offset: 4.237 ms

# Below is generated by plot.py at 2019-11-24 15:40:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.64 Mbit/s
95th percentile per-packet one-way delay: 36.788 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 94.64 Mbit/s
95th percentile per-packet one-way delay: 36.788 ms
Loss rate: 0.24%
```

Run 1: Report of Muses_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2019-11-24 12:27:01

End at: 2019-11-24 12:27:31

Local clock offset: 3.115 ms

Remote clock offset: 4.91 ms

Below is generated by plot.py at 2019-11-24 15:40:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.27 Mbit/s

95th percentile per-packet one-way delay: 38.276 ms

Loss rate: 0.26%

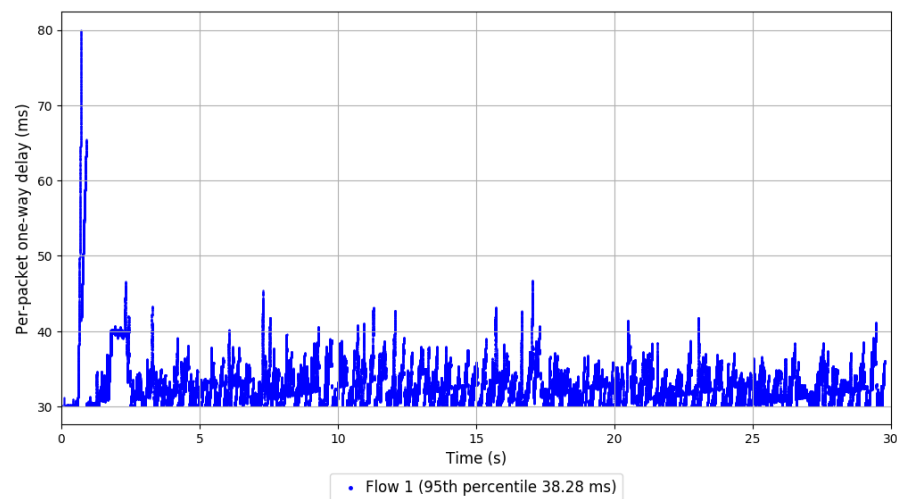
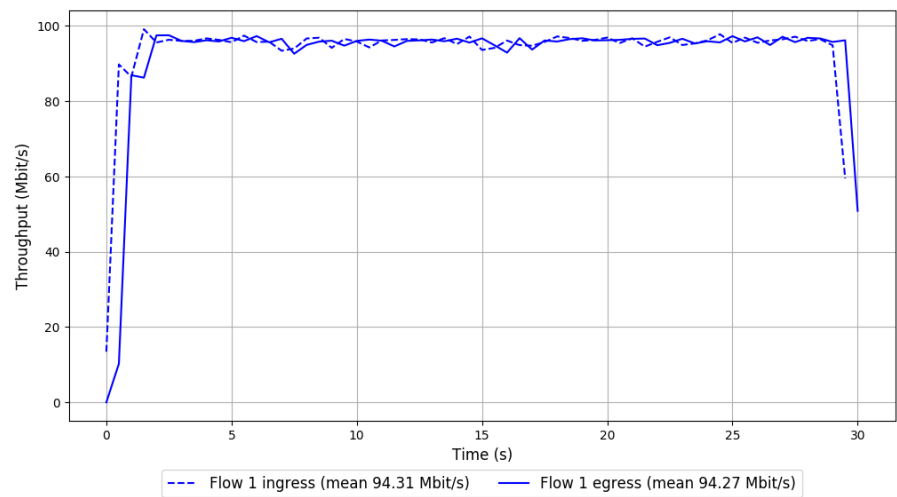
-- Flow 1:

Average throughput: 94.27 Mbit/s

95th percentile per-packet one-way delay: 38.276 ms

Loss rate: 0.26%

Run 2: Report of Muses_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-11-24 13:07:51

End at: 2019-11-24 13:08:21

Local clock offset: 3.191 ms

Remote clock offset: 4.309 ms

Below is generated by plot.py at 2019-11-24 15:40:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.43 Mbit/s

95th percentile per-packet one-way delay: 37.526 ms

Loss rate: 0.24%

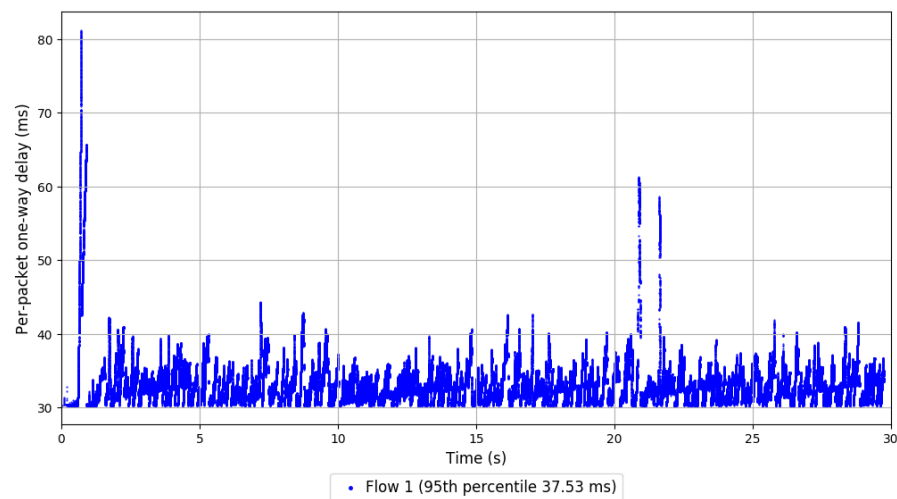
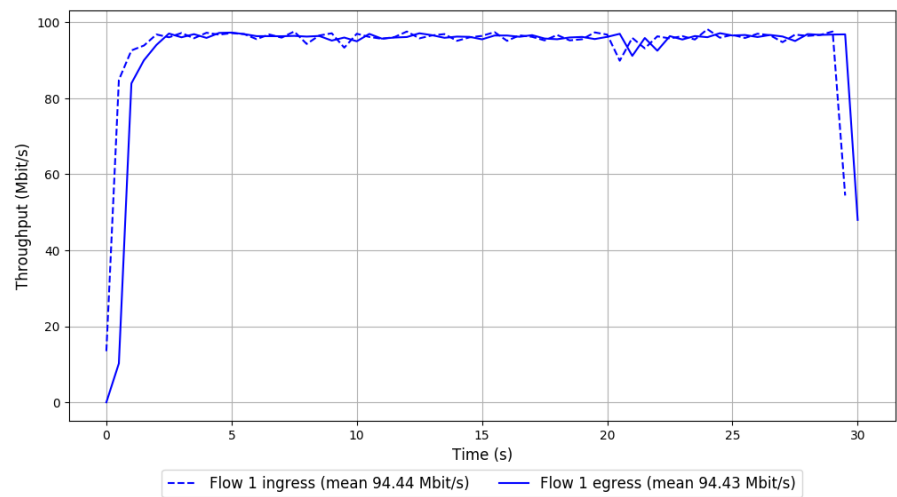
-- Flow 1:

Average throughput: 94.43 Mbit/s

95th percentile per-packet one-way delay: 37.526 ms

Loss rate: 0.24%

Run 3: Report of Muses_DecisionTreeR0 — Data Link



Run 4: Statistics of Muses_DecisionTreeR0

Start at: 2019-11-24 13:52:31

End at: 2019-11-24 13:53:01

Local clock offset: 2.5 ms

Remote clock offset: 3.65 ms

Below is generated by plot.py at 2019-11-24 15:40:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.66 Mbit/s

95th percentile per-packet one-way delay: 37.090 ms

Loss rate: 0.23%

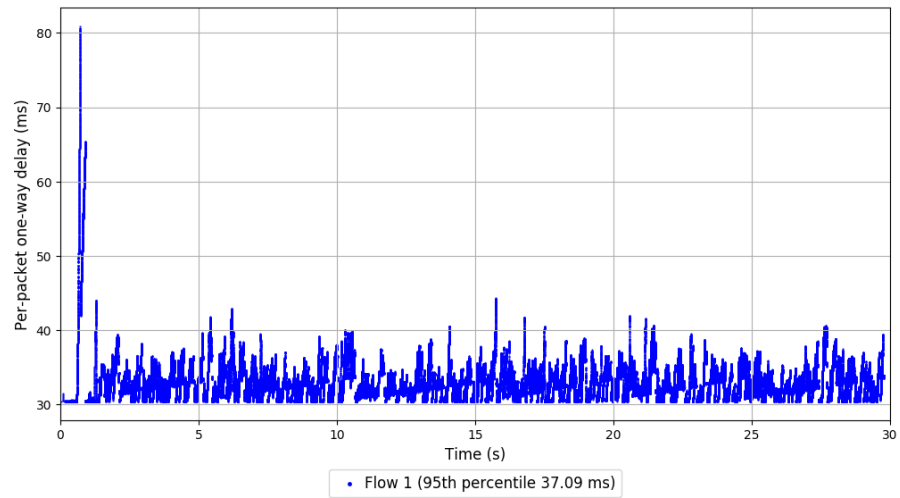
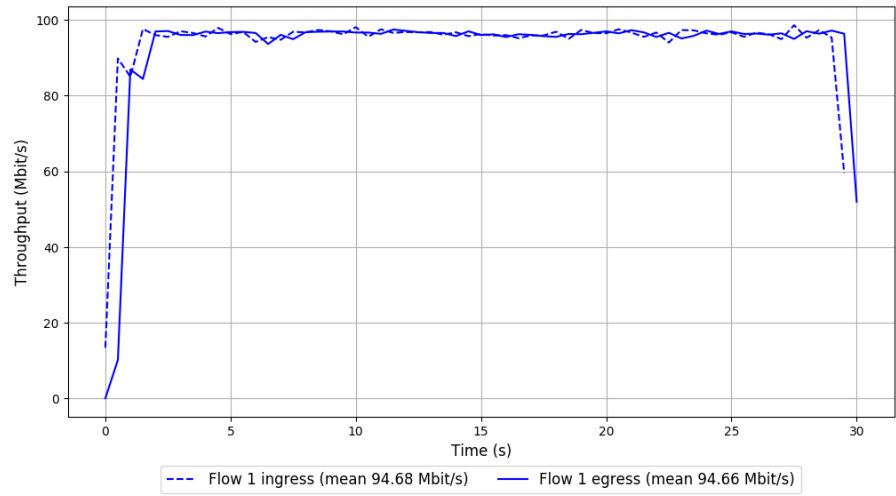
-- Flow 1:

Average throughput: 94.66 Mbit/s

95th percentile per-packet one-way delay: 37.090 ms

Loss rate: 0.23%

Run 4: Report of Muses_DecisionTreeR0 — Data Link



Run 5: Statistics of Muses_DecisionTreeR0

Start at: 2019-11-24 14:46:41

End at: 2019-11-24 14:47:11

Local clock offset: 3.445 ms

Remote clock offset: 3.999 ms

Below is generated by plot.py at 2019-11-24 15:40:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.77 Mbit/s

95th percentile per-packet one-way delay: 38.463 ms

Loss rate: 0.23%

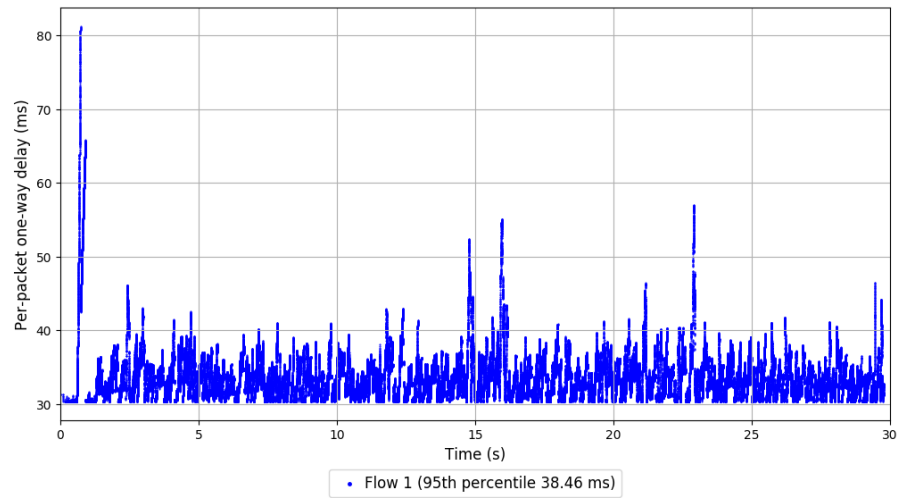
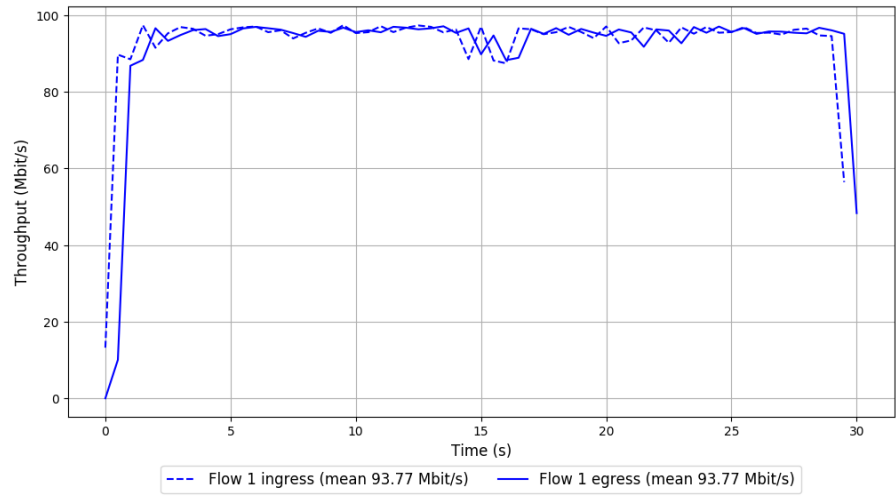
-- Flow 1:

Average throughput: 93.77 Mbit/s

95th percentile per-packet one-way delay: 38.463 ms

Loss rate: 0.23%

Run 5: Report of Muses_DecisionTreeR0 — Data Link

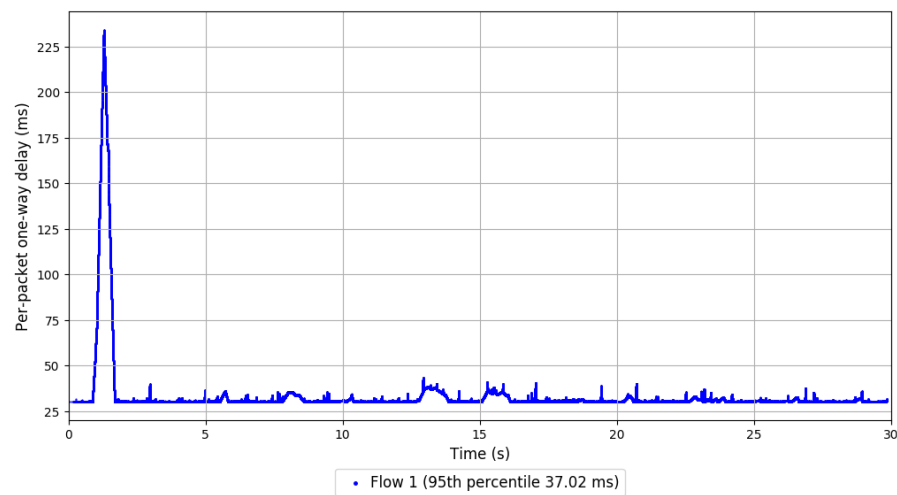
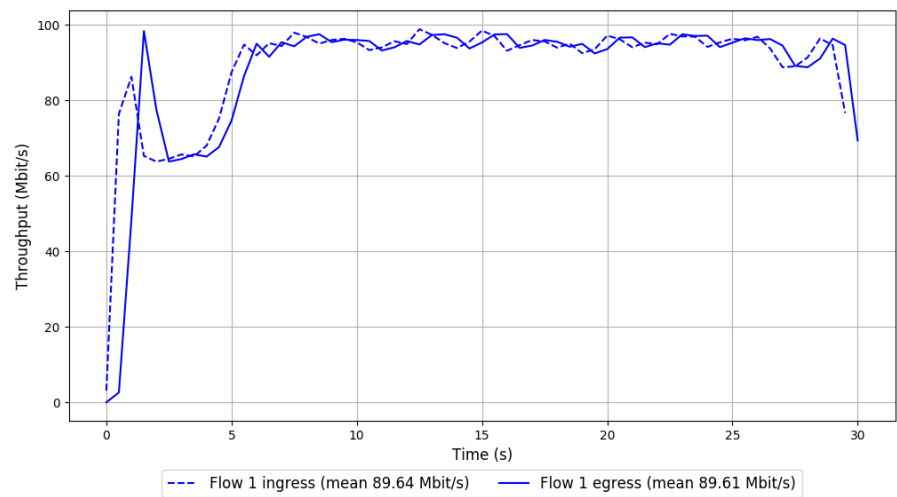


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-11-24 11:58:06
End at: 2019-11-24 11:58:36
Local clock offset: 2.881 ms
Remote clock offset: 4.23 ms

# Below is generated by plot.py at 2019-11-24 15:40:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.61 Mbit/s
95th percentile per-packet one-way delay: 37.024 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 89.61 Mbit/s
95th percentile per-packet one-way delay: 37.024 ms
Loss rate: 0.26%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-11-24 12:35:01

End at: 2019-11-24 12:35:31

Local clock offset: 3.122 ms

Remote clock offset: 4.487 ms

Below is generated by plot.py at 2019-11-24 15:41:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.18 Mbit/s

95th percentile per-packet one-way delay: 47.082 ms

Loss rate: 0.26%

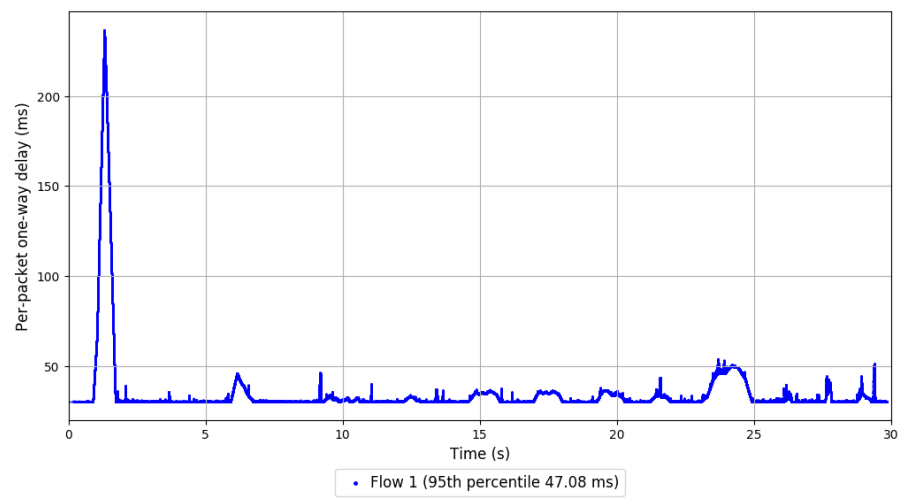
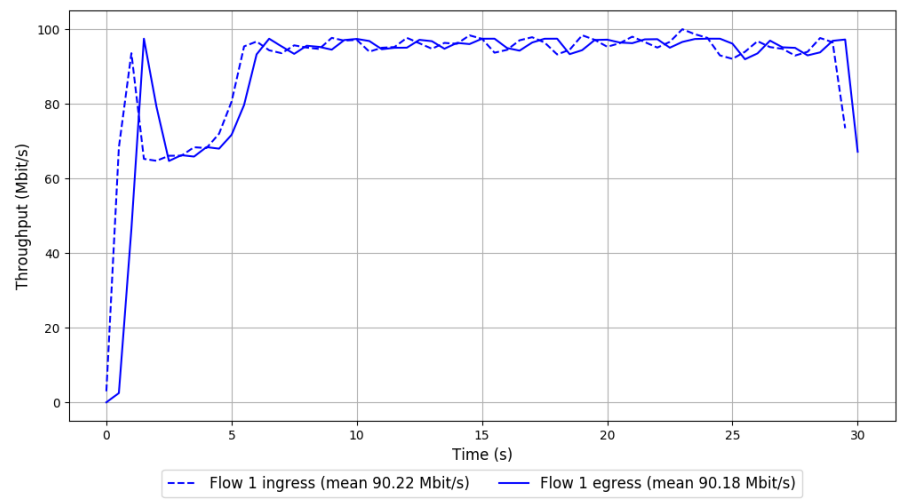
-- Flow 1:

Average throughput: 90.18 Mbit/s

95th percentile per-packet one-way delay: 47.082 ms

Loss rate: 0.26%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-11-24 13:16:23

End at: 2019-11-24 13:16:53

Local clock offset: 2.883 ms

Remote clock offset: 4.312 ms

Below is generated by plot.py at 2019-11-24 15:41:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.72 Mbit/s

95th percentile per-packet one-way delay: 37.249 ms

Loss rate: 0.24%

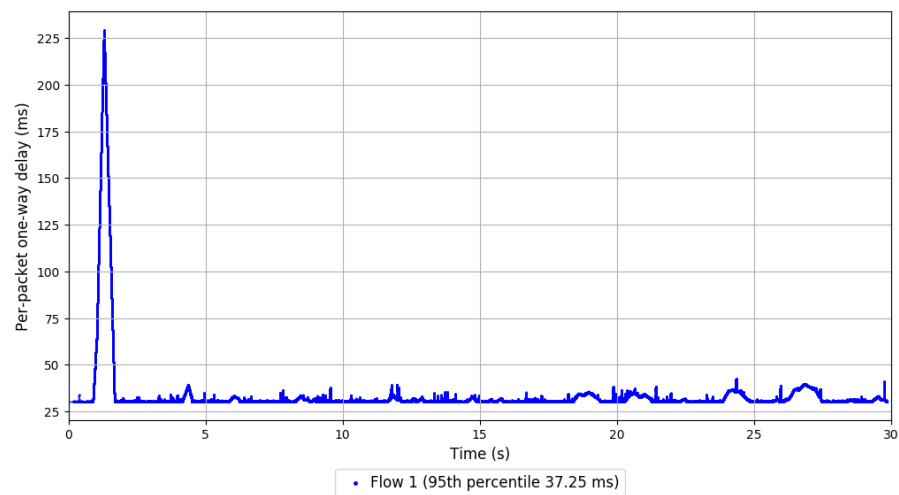
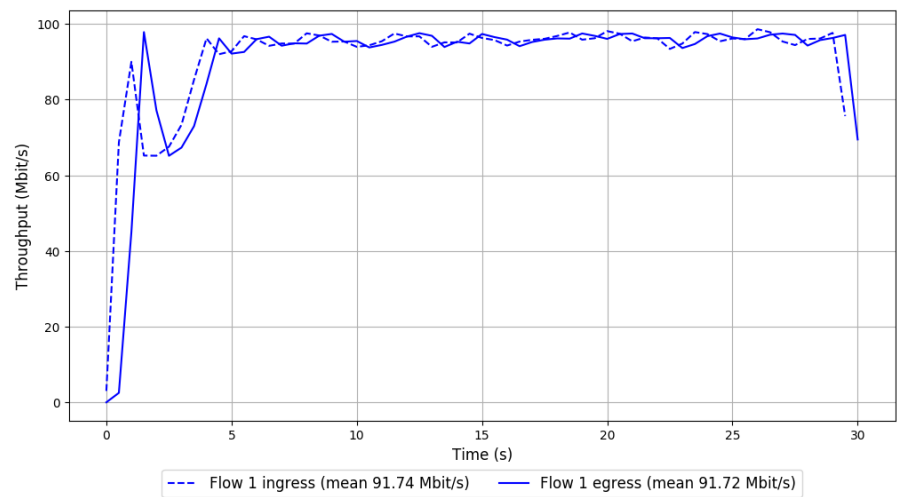
-- Flow 1:

Average throughput: 91.72 Mbit/s

95th percentile per-packet one-way delay: 37.249 ms

Loss rate: 0.24%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-11-24 14:00:43

End at: 2019-11-24 14:01:13

Local clock offset: 2.493 ms

Remote clock offset: 3.666 ms

Below is generated by plot.py at 2019-11-24 15:41:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.29 Mbit/s

95th percentile per-packet one-way delay: 45.066 ms

Loss rate: 0.38%

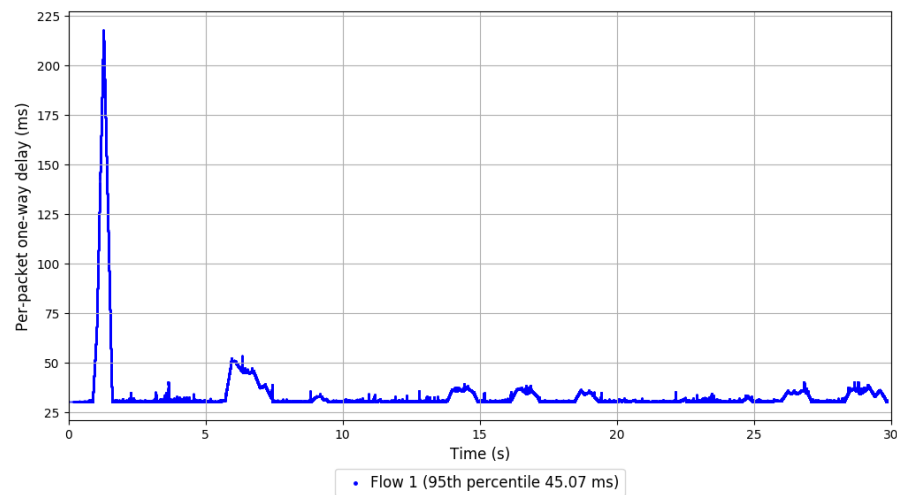
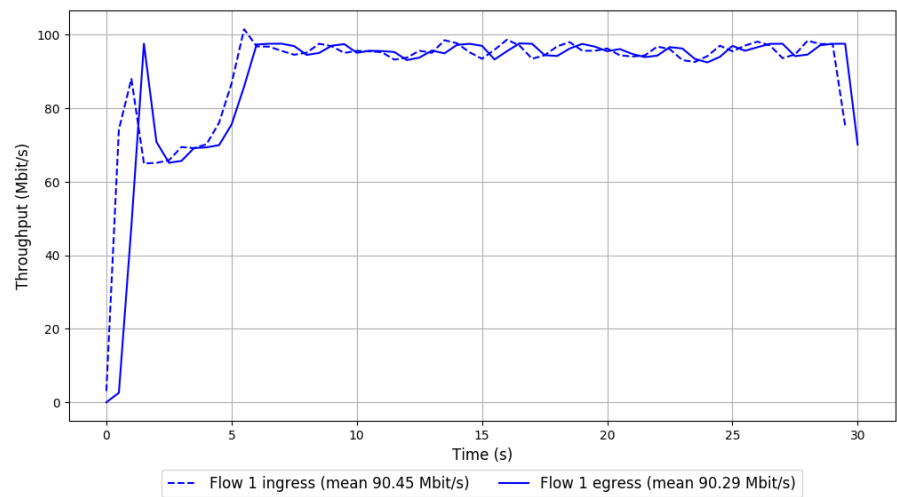
-- Flow 1:

Average throughput: 90.29 Mbit/s

95th percentile per-packet one-way delay: 45.066 ms

Loss rate: 0.38%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-11-24 14:58:15

End at: 2019-11-24 14:58:46

Local clock offset: 3.412 ms

Remote clock offset: 4.105 ms

Below is generated by plot.py at 2019-11-24 15:41:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.31 Mbit/s

95th percentile per-packet one-way delay: 47.402 ms

Loss rate: 0.26%

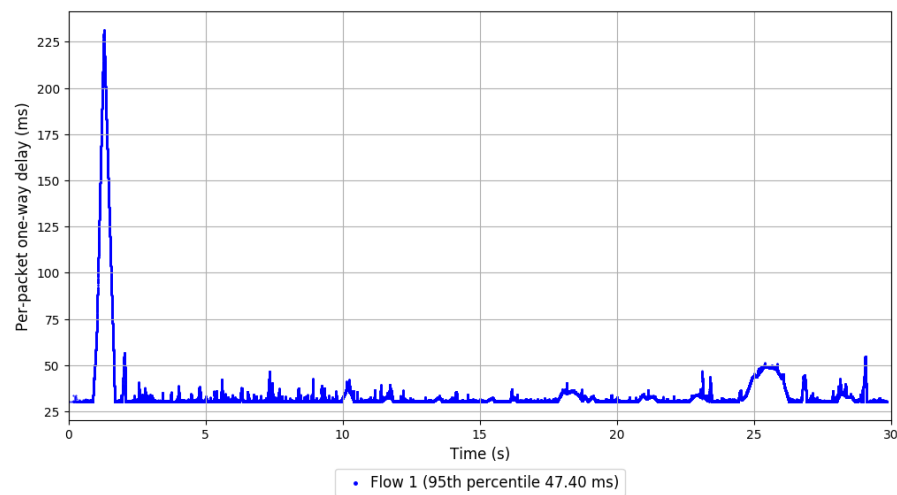
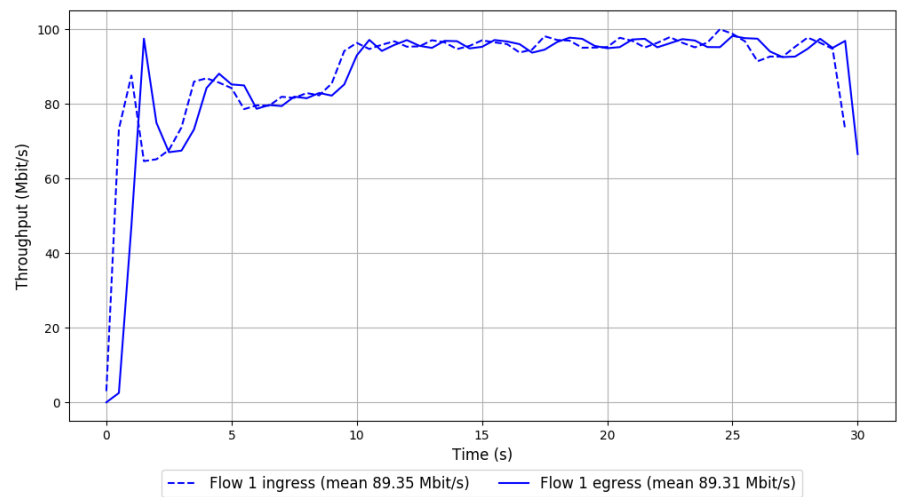
-- Flow 1:

Average throughput: 89.31 Mbit/s

95th percentile per-packet one-way delay: 47.402 ms

Loss rate: 0.26%

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

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

End at: 2019-11-24 12:03:42

Local clock offset: 2.909 ms

Remote clock offset: 4.378 ms

Below is generated by plot.py at 2019-11-24 15:42:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.87 Mbit/s

95th percentile per-packet one-way delay: 646.943 ms

Loss rate: 22.50%

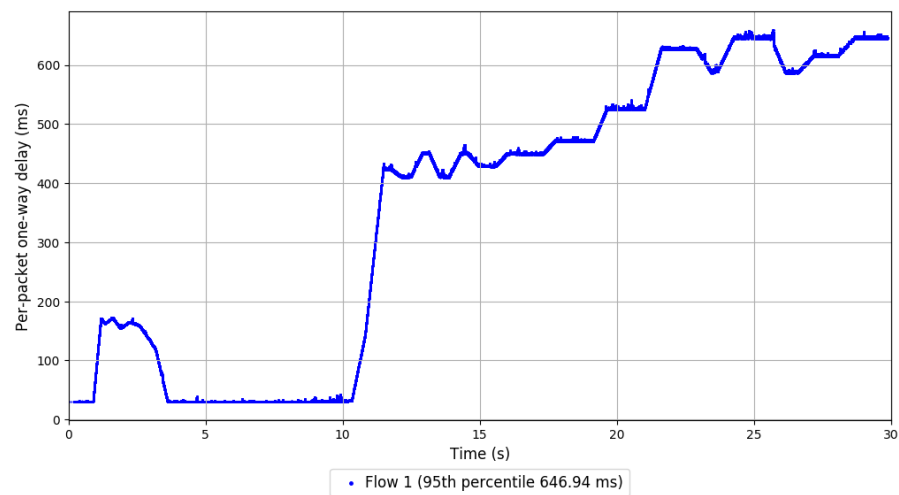
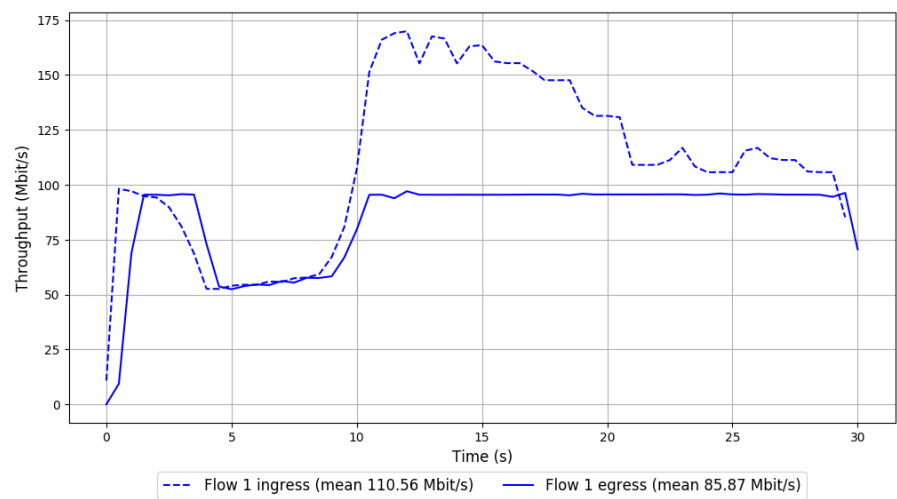
-- Flow 1:

Average throughput: 85.87 Mbit/s

95th percentile per-packet one-way delay: 646.943 ms

Loss rate: 22.50%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-11-24 12:40:47

End at: 2019-11-24 12:41:17

Local clock offset: 3.132 ms

Remote clock offset: 4.57 ms

Below is generated by plot.py at 2019-11-24 15:42:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.83 Mbit/s

95th percentile per-packet one-way delay: 561.774 ms

Loss rate: 26.45%

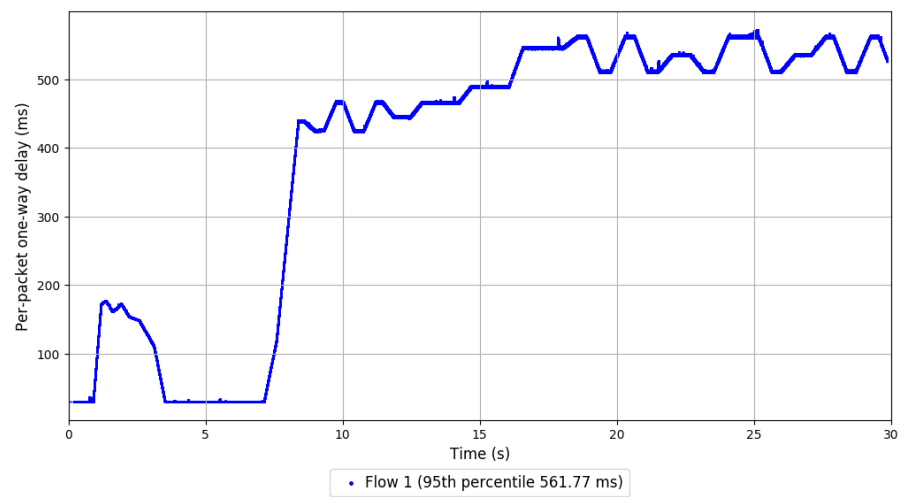
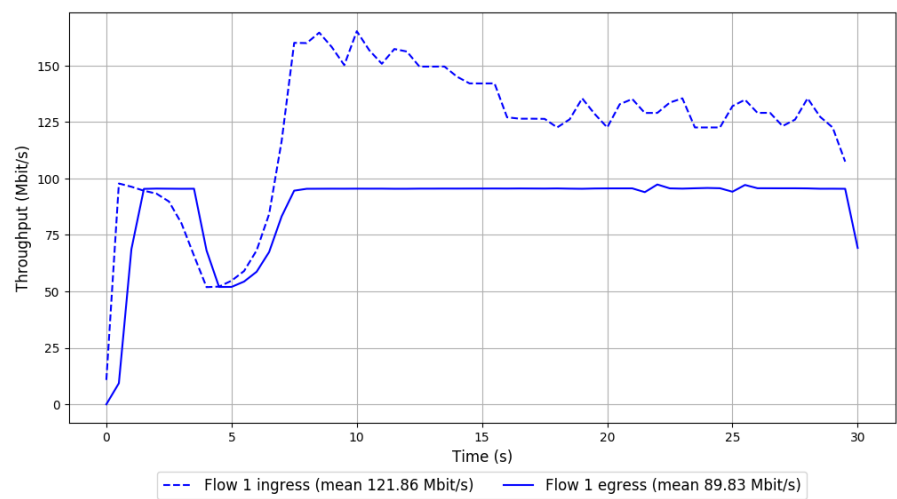
-- Flow 1:

Average throughput: 89.83 Mbit/s

95th percentile per-packet one-way delay: 561.774 ms

Loss rate: 26.45%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-11-24 13:22:13

End at: 2019-11-24 13:22:43

Local clock offset: 2.774 ms

Remote clock offset: 4.223 ms

Below is generated by plot.py at 2019-11-24 15:42:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.42 Mbit/s

95th percentile per-packet one-way delay: 694.048 ms

Loss rate: 5.85%

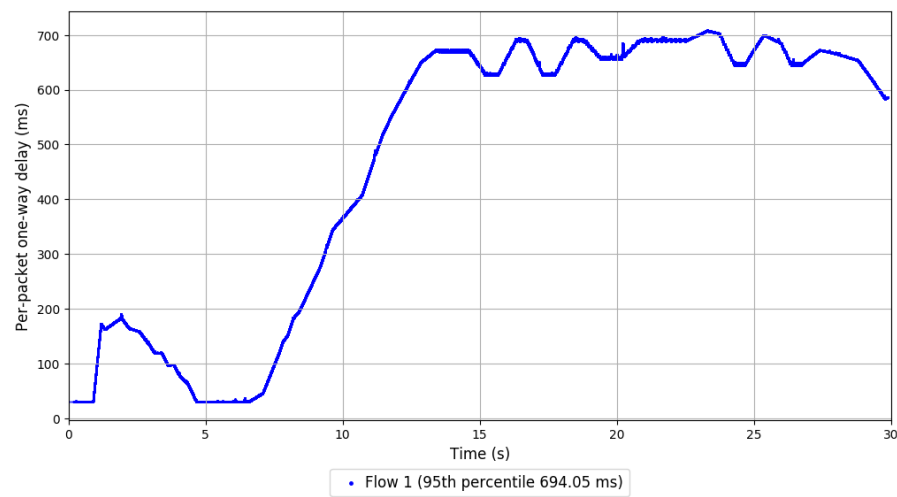
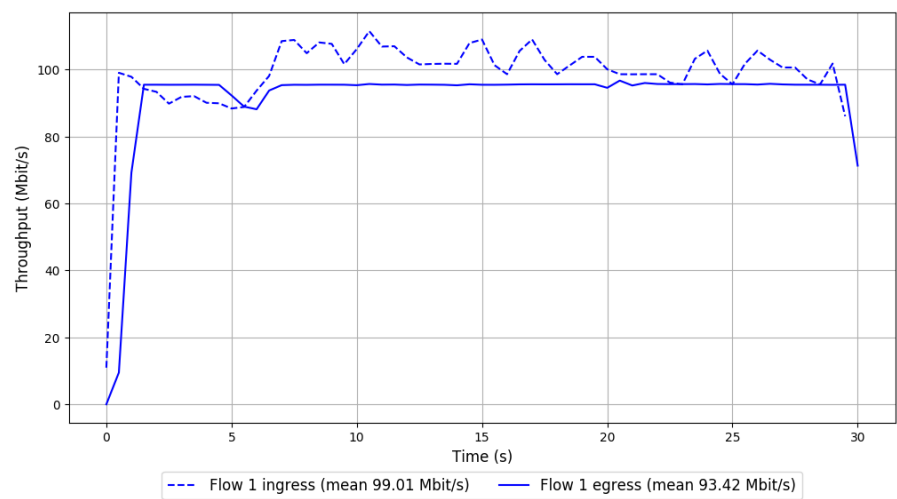
-- Flow 1:

Average throughput: 93.42 Mbit/s

95th percentile per-packet one-way delay: 694.048 ms

Loss rate: 5.85%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-11-24 14:07:56

End at: 2019-11-24 14:08:26

Local clock offset: 2.449 ms

Remote clock offset: 3.54 ms

Below is generated by plot.py at 2019-11-24 15:42:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.70 Mbit/s

95th percentile per-packet one-way delay: 595.206 ms

Loss rate: 18.81%

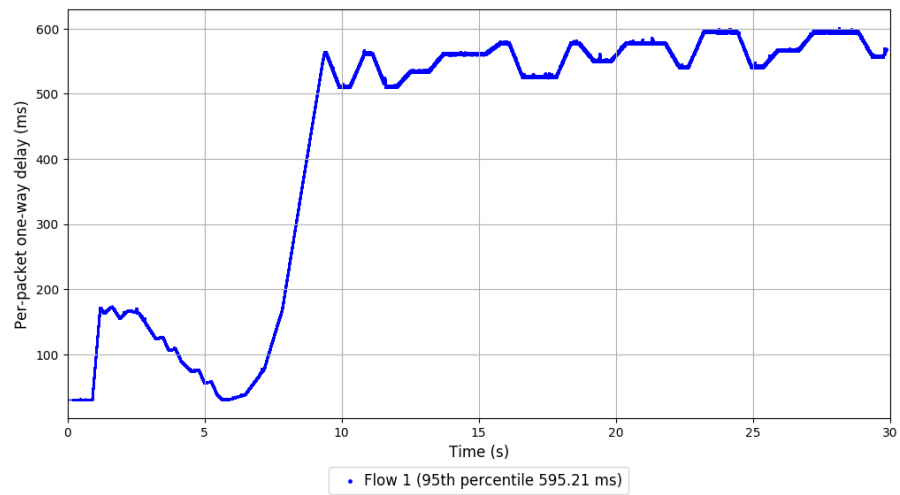
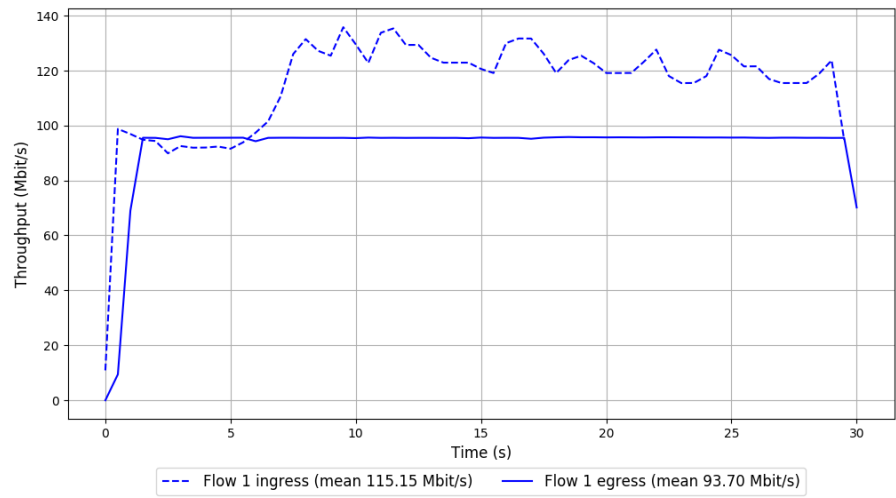
-- Flow 1:

Average throughput: 93.70 Mbit/s

95th percentile per-packet one-way delay: 595.206 ms

Loss rate: 18.81%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-11-24 15:07:52

End at: 2019-11-24 15:08:22

Local clock offset: 3.425 ms

Remote clock offset: 4.015 ms

Below is generated by plot.py at 2019-11-24 15:43:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.93 Mbit/s

95th percentile per-packet one-way delay: 642.915 ms

Loss rate: 5.80%

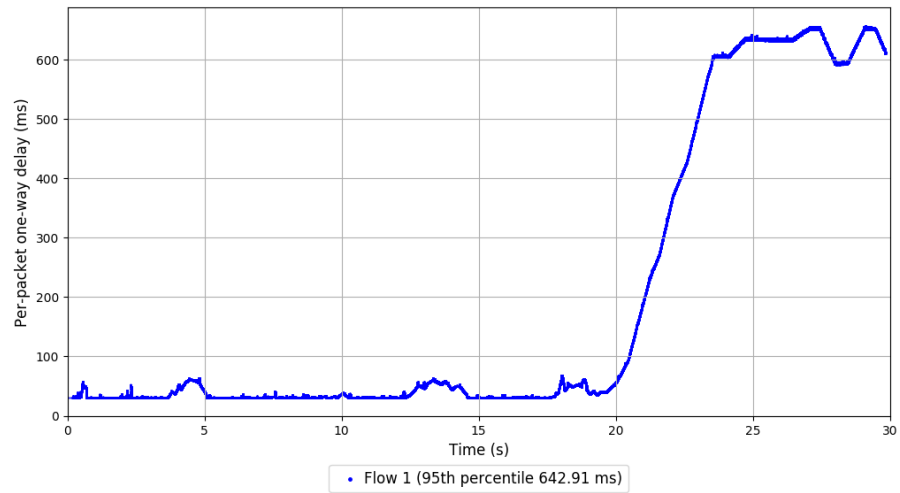
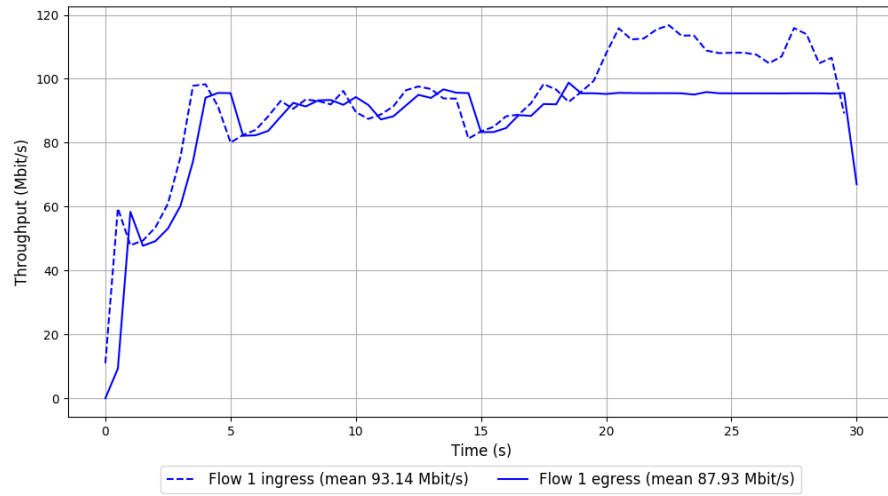
-- Flow 1:

Average throughput: 87.93 Mbit/s

95th percentile per-packet one-way delay: 642.915 ms

Loss rate: 5.80%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-11-24 12:15:43

End at: 2019-11-24 12:16:13

Local clock offset: 3.011 ms

Remote clock offset: 4.566 ms

Below is generated by plot.py at 2019-11-24 15:43:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.80 Mbit/s

95th percentile per-packet one-way delay: 45.320 ms

Loss rate: 0.42%

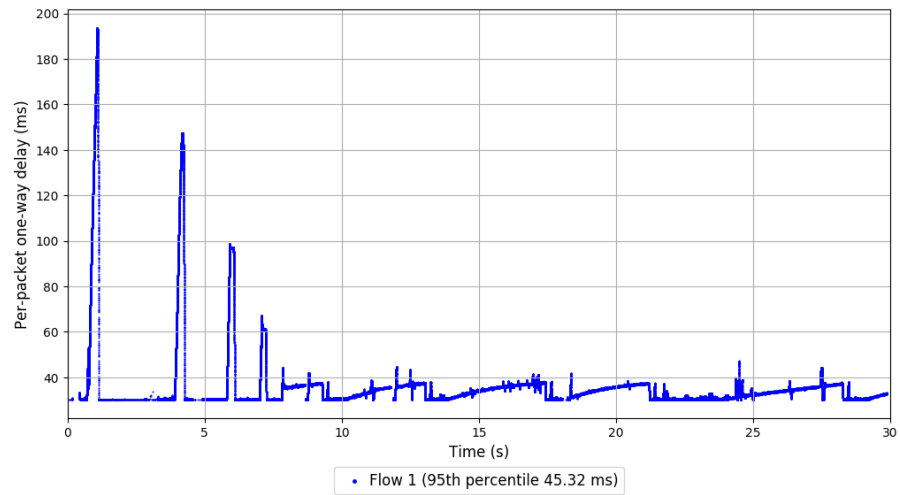
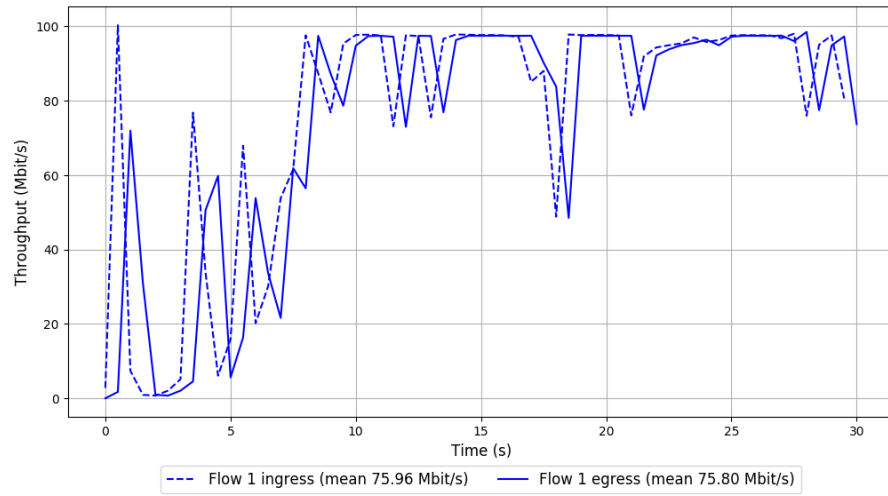
-- Flow 1:

Average throughput: 75.80 Mbit/s

95th percentile per-packet one-way delay: 45.320 ms

Loss rate: 0.42%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-11-24 12:55:41

End at: 2019-11-24 12:56:11

Local clock offset: 3.179 ms

Remote clock offset: 4.405 ms

Below is generated by plot.py at 2019-11-24 15:43:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.38 Mbit/s

95th percentile per-packet one-way delay: 46.328 ms

Loss rate: 0.19%

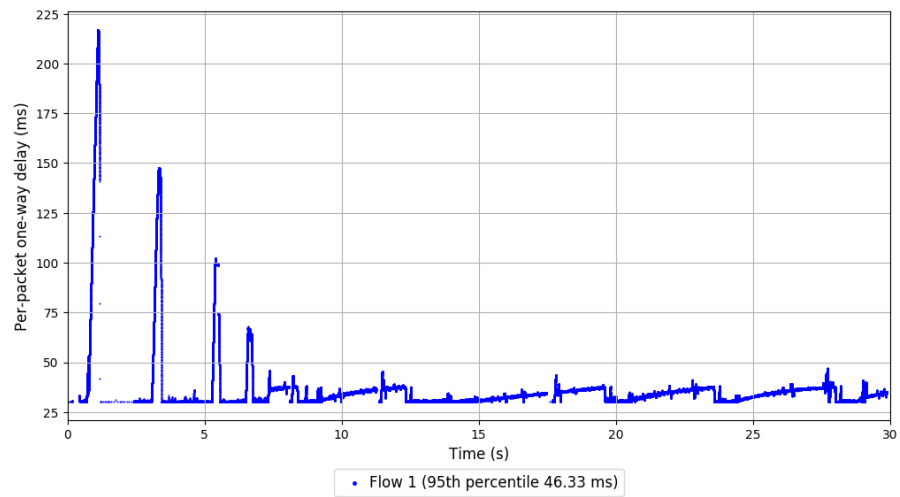
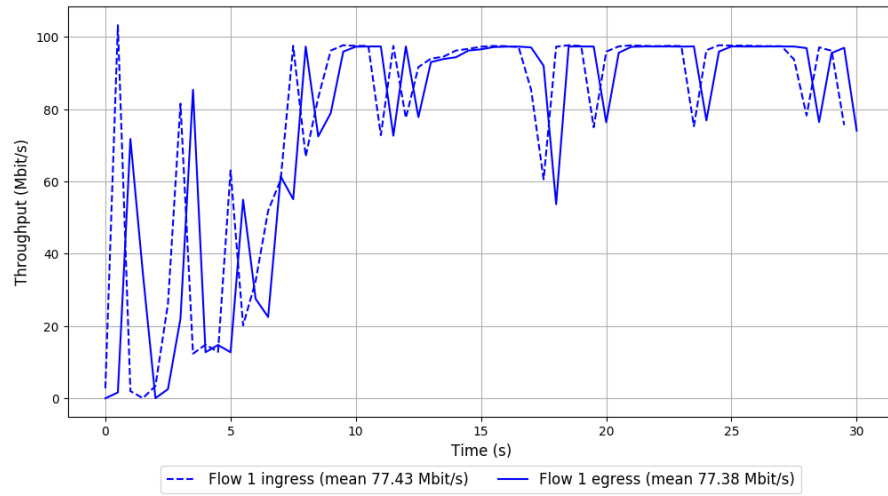
-- Flow 1:

Average throughput: 77.38 Mbit/s

95th percentile per-packet one-way delay: 46.328 ms

Loss rate: 0.19%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-11-24 13:38:26

End at: 2019-11-24 13:38:56

Local clock offset: 2.569 ms

Remote clock offset: 4.009 ms

Below is generated by plot.py at 2019-11-24 15:43:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.96 Mbit/s

95th percentile per-packet one-way delay: 46.446 ms

Loss rate: 0.28%

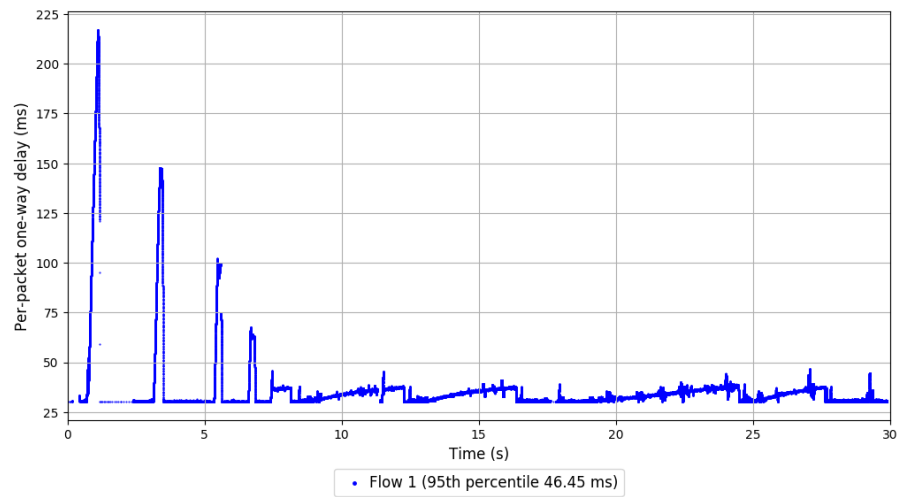
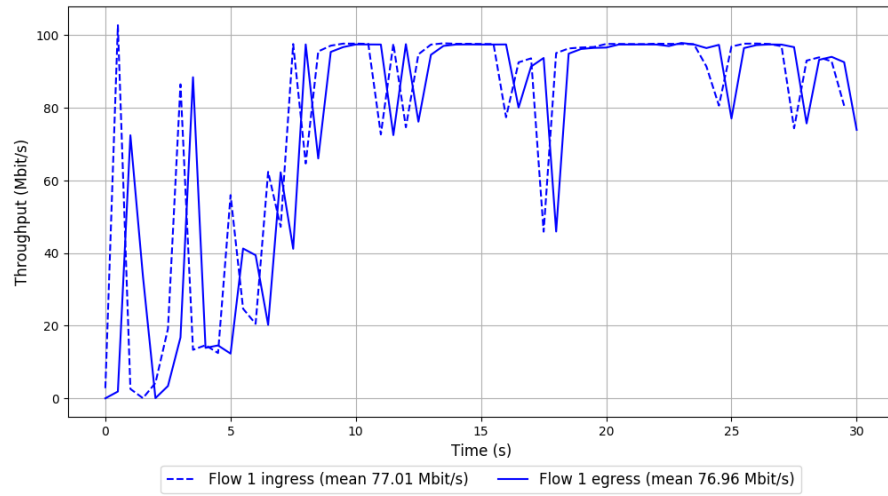
-- Flow 1:

Average throughput: 76.96 Mbit/s

95th percentile per-packet one-way delay: 46.446 ms

Loss rate: 0.28%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-11-24 14:27:39

End at: 2019-11-24 14:28:09

Local clock offset: 3.441 ms

Remote clock offset: 4.108 ms

Below is generated by plot.py at 2019-11-24 15:43:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.81 Mbit/s

95th percentile per-packet one-way delay: 43.344 ms

Loss rate: 0.26%

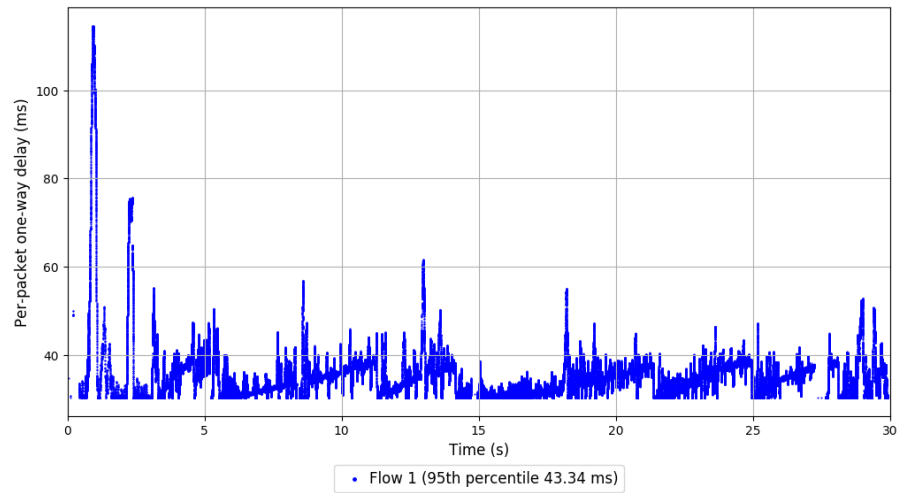
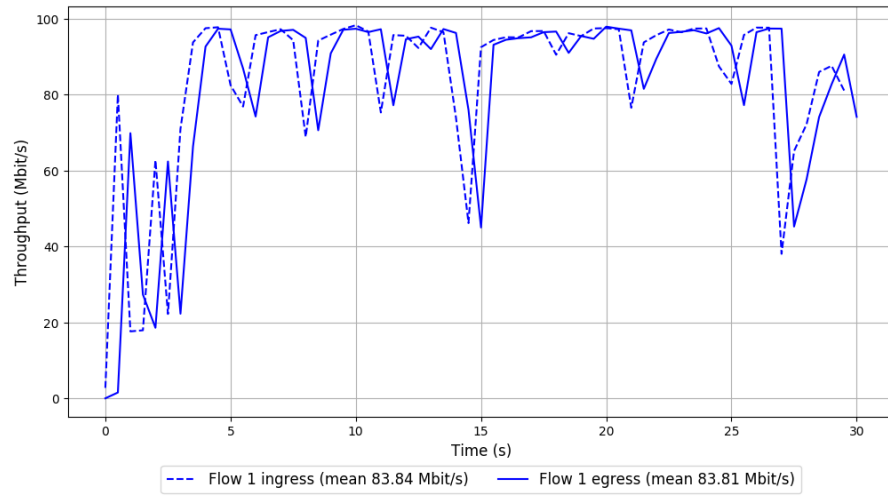
-- Flow 1:

Average throughput: 83.81 Mbit/s

95th percentile per-packet one-way delay: 43.344 ms

Loss rate: 0.26%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-11-24 15:26:55

End at: 2019-11-24 15:27:25

Local clock offset: 3.429 ms

Remote clock offset: 3.946 ms

Below is generated by plot.py at 2019-11-24 15:43:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.81 Mbit/s

95th percentile per-packet one-way delay: 37.140 ms

Loss rate: 0.32%

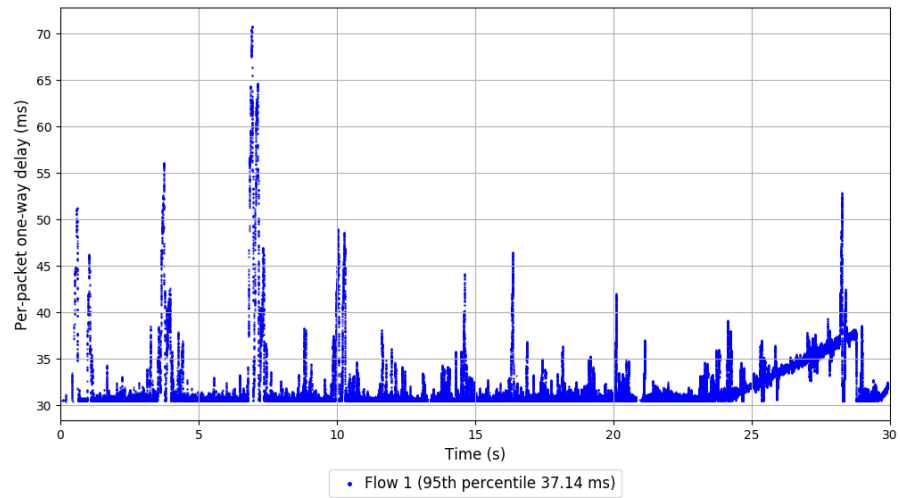
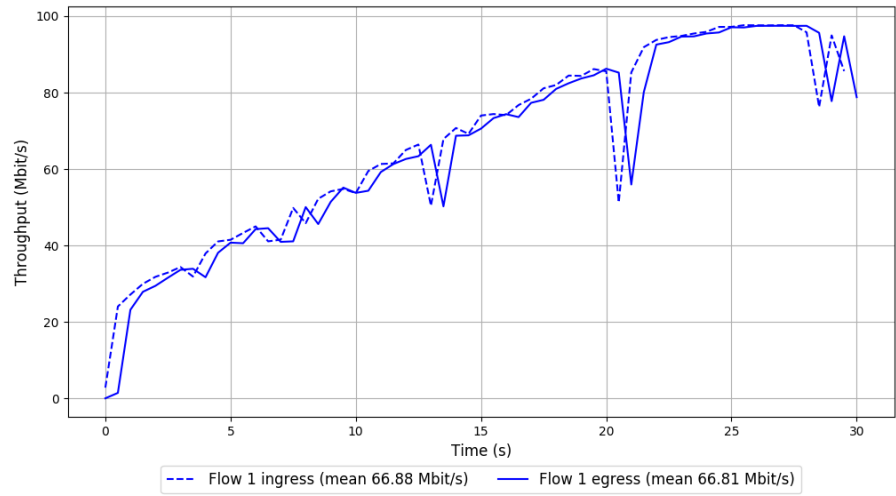
-- Flow 1:

Average throughput: 66.81 Mbit/s

95th percentile per-packet one-way delay: 37.140 ms

Loss rate: 0.32%

Run 5: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2019-11-24 11:46:50

End at: 2019-11-24 11:47:20

Local clock offset: 2.874 ms

Remote clock offset: 4.02 ms

Below is generated by plot.py at 2019-11-24 15:43:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.555 ms

Loss rate: 0.26%

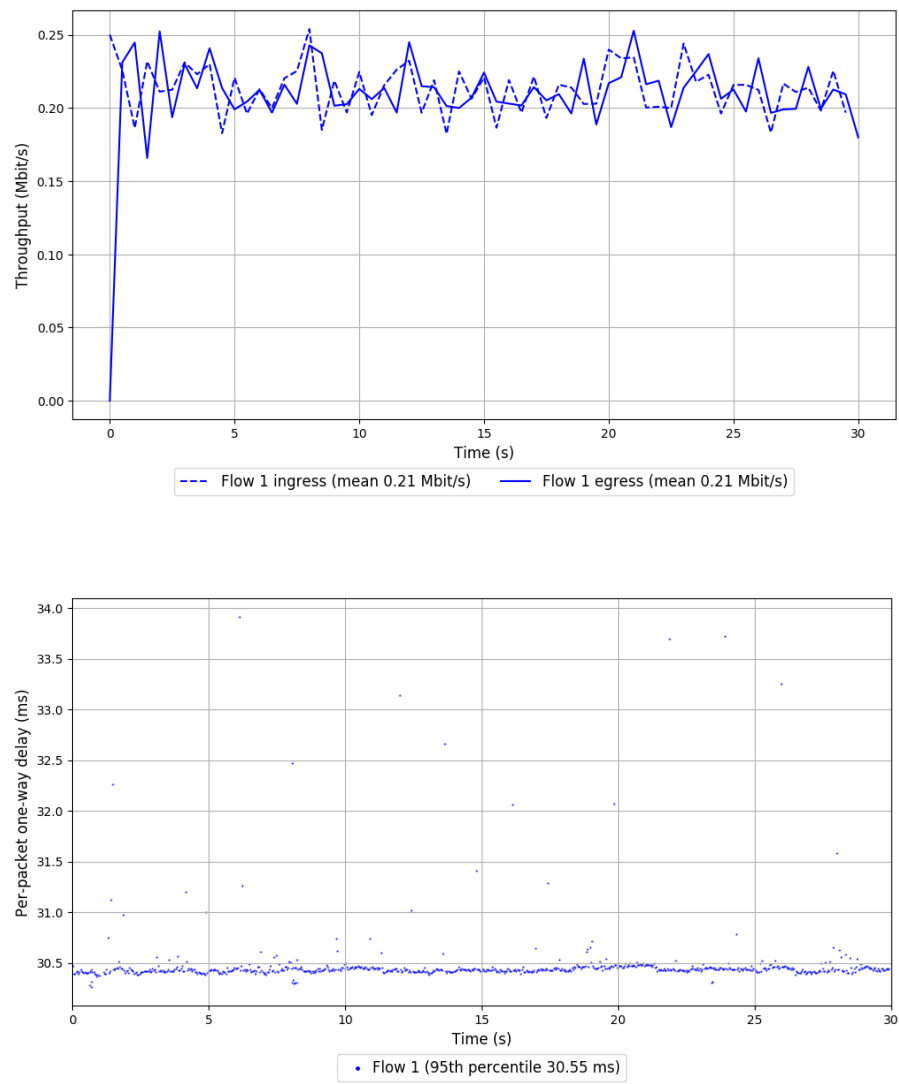
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.555 ms

Loss rate: 0.26%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-11-24 12:22:59

End at: 2019-11-24 12:23:29

Local clock offset: 3.088 ms

Remote clock offset: 4.686 ms

Below is generated by plot.py at 2019-11-24 15:43:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 31.205 ms

Loss rate: 0.26%

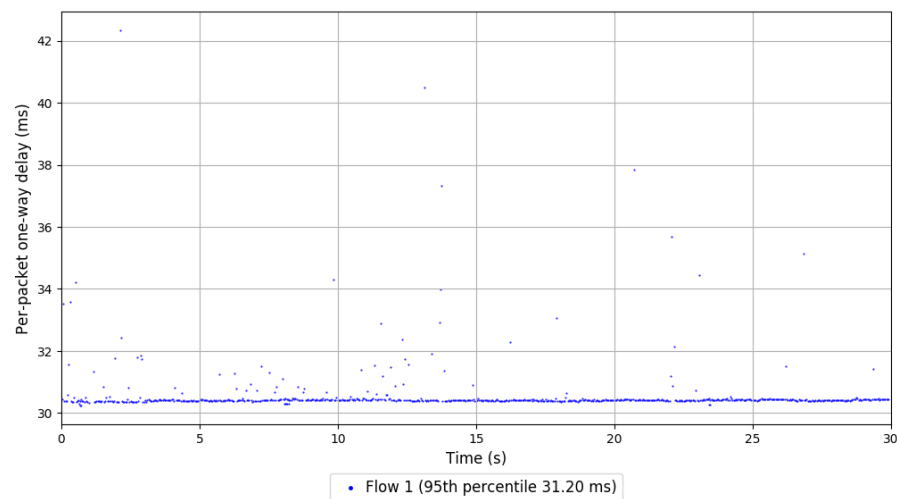
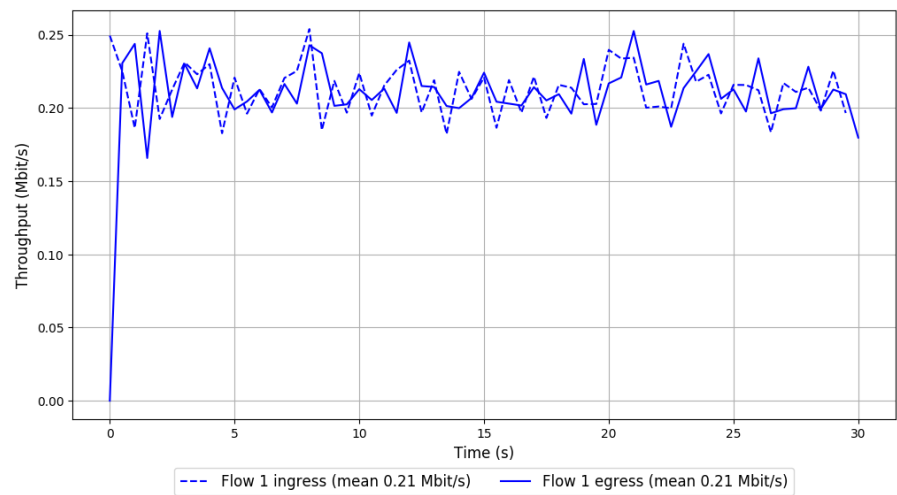
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 31.205 ms

Loss rate: 0.26%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-11-24 13:03:38

End at: 2019-11-24 13:04:08

Local clock offset: 3.156 ms

Remote clock offset: 4.371 ms

Below is generated by plot.py at 2019-11-24 15:43:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.897 ms

Loss rate: 0.26%

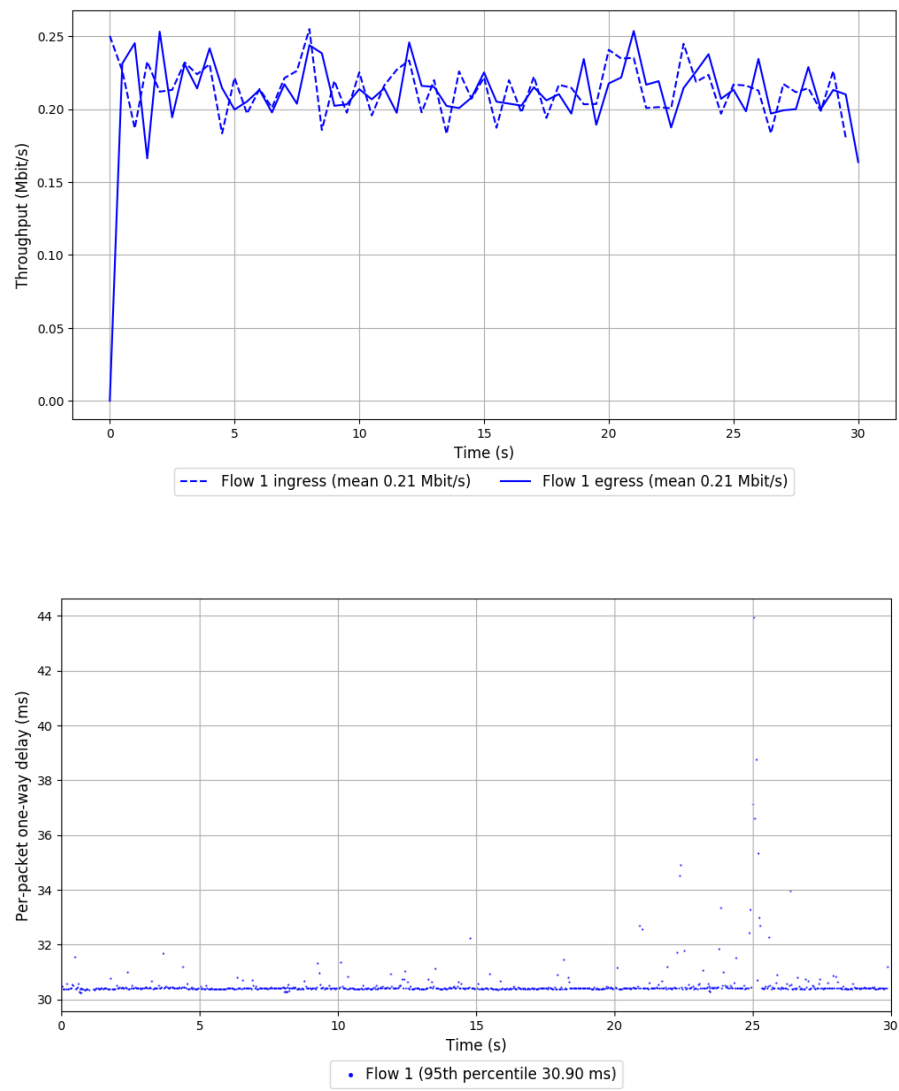
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.897 ms

Loss rate: 0.26%

Run 3: Report of SCReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-11-24 13:48:07

End at: 2019-11-24 13:48:37

Local clock offset: 2.522 ms

Remote clock offset: 3.767 ms

Below is generated by plot.py at 2019-11-24 15:43:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 31.489 ms

Loss rate: 0.26%

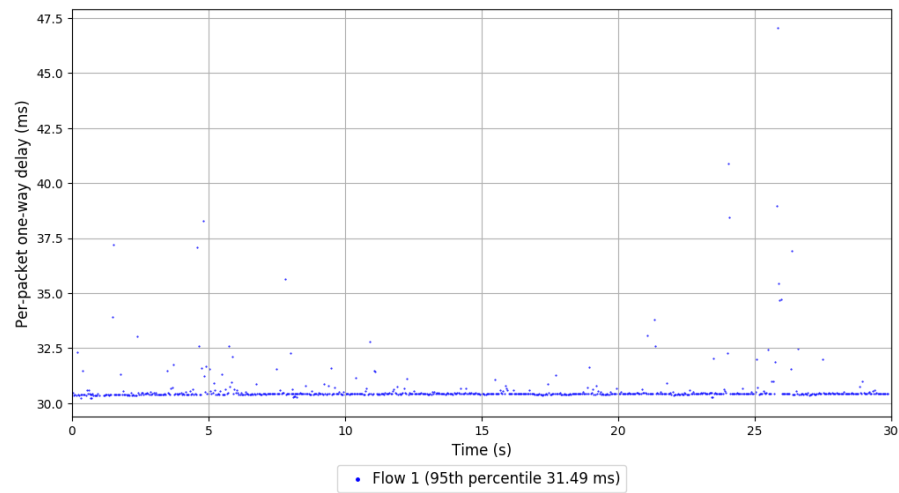
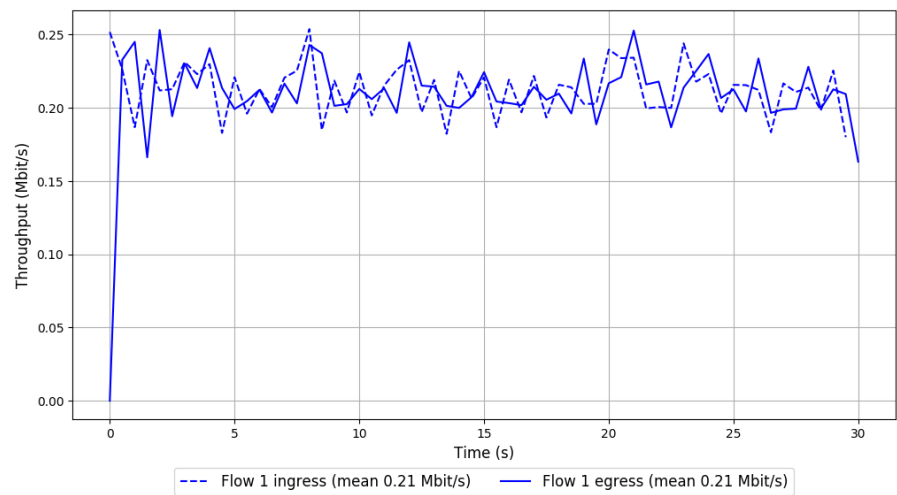
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 31.489 ms

Loss rate: 0.26%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-11-24 14:41:39

End at: 2019-11-24 14:42:09

Local clock offset: 3.558 ms

Remote clock offset: 4.054 ms

Below is generated by plot.py at 2019-11-24 15:43:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 31.821 ms

Loss rate: 0.13%

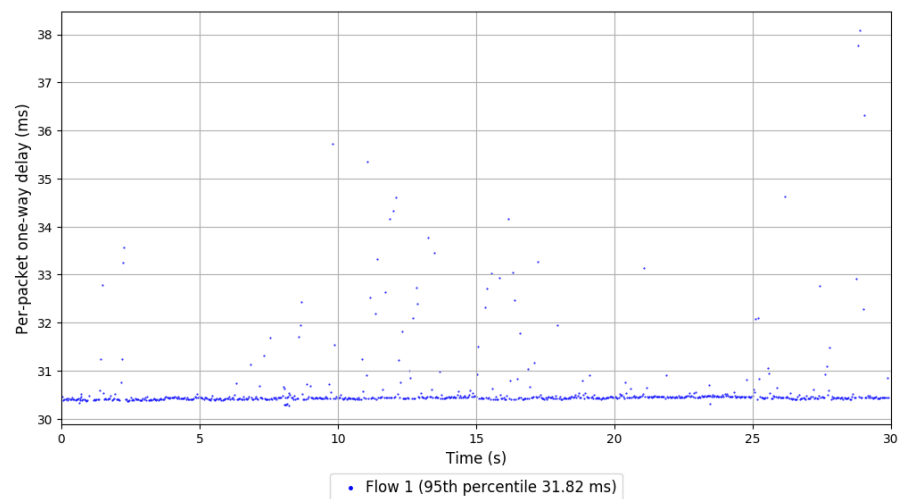
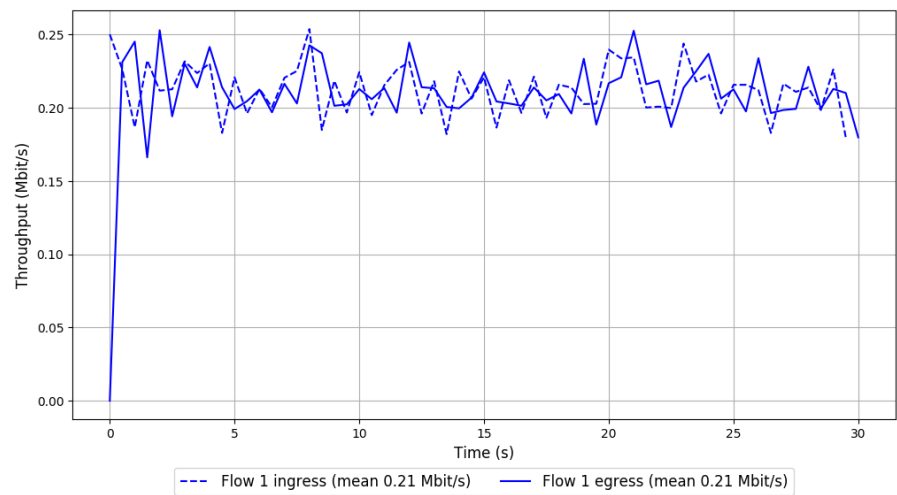
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 31.821 ms

Loss rate: 0.13%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-11-24 12:08:28

End at: 2019-11-24 12:08:58

Local clock offset: 2.933 ms

Remote clock offset: 4.415 ms

Below is generated by plot.py at 2019-11-24 15:43:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.94 Mbit/s

95th percentile per-packet one-way delay: 37.835 ms

Loss rate: 0.27%

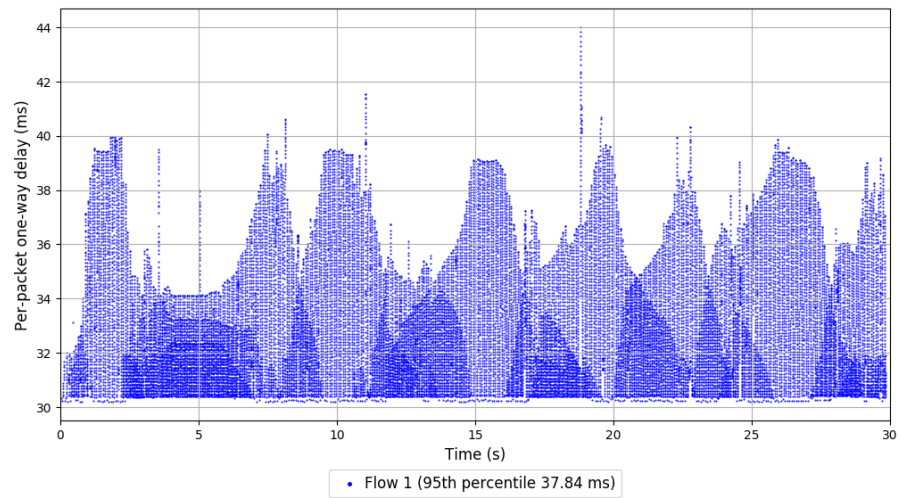
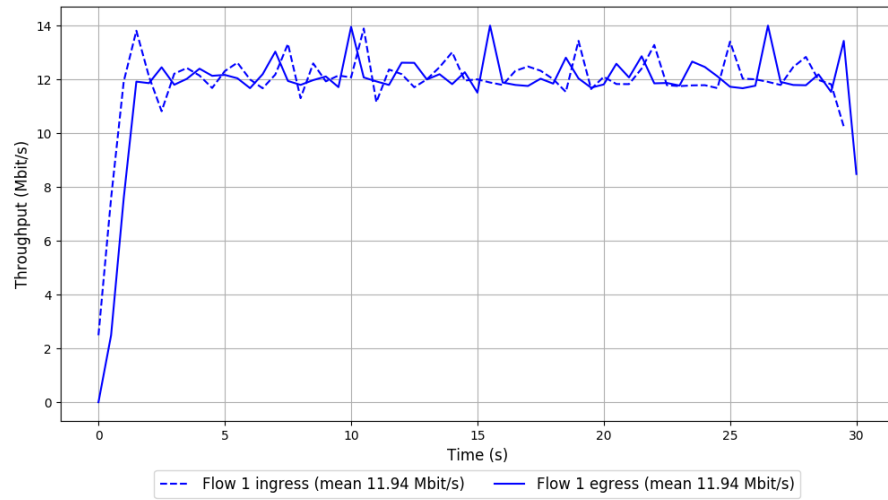
-- Flow 1:

Average throughput: 11.94 Mbit/s

95th percentile per-packet one-way delay: 37.835 ms

Loss rate: 0.27%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-11-24 12:46:46

End at: 2019-11-24 12:47:16

Local clock offset: 3.151 ms

Remote clock offset: 4.574 ms

Below is generated by plot.py at 2019-11-24 15:43:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.01 Mbit/s

95th percentile per-packet one-way delay: 37.960 ms

Loss rate: 0.27%

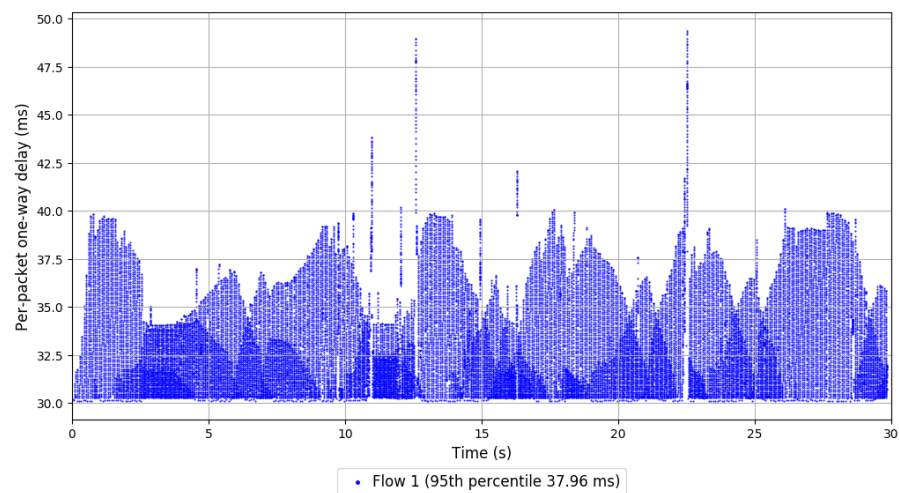
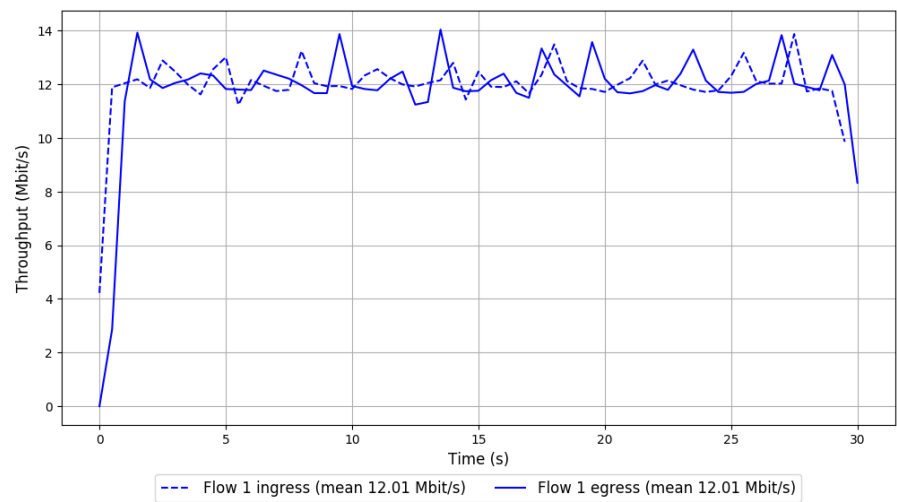
-- Flow 1:

Average throughput: 12.01 Mbit/s

95th percentile per-packet one-way delay: 37.960 ms

Loss rate: 0.27%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-11-24 13:28:55

End at: 2019-11-24 13:29:25

Local clock offset: 2.696 ms

Remote clock offset: 4.309 ms

Below is generated by plot.py at 2019-11-24 15:43:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.01 Mbit/s

95th percentile per-packet one-way delay: 38.079 ms

Loss rate: 0.16%

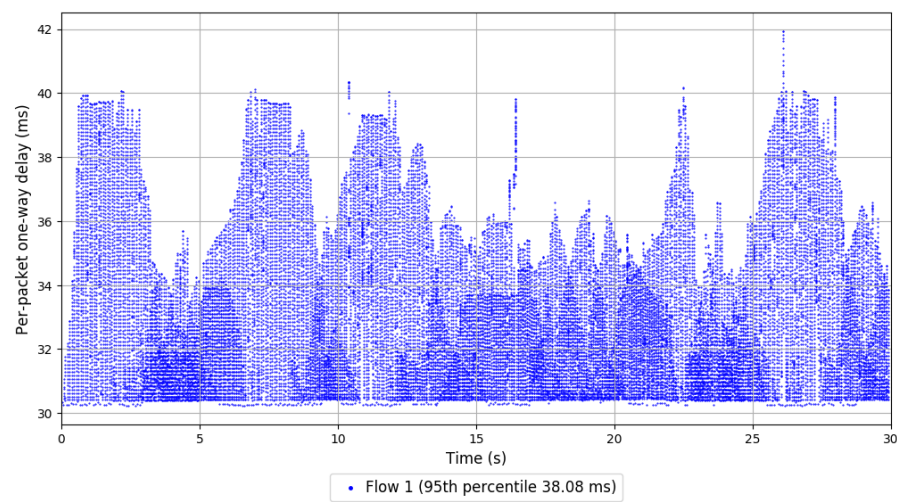
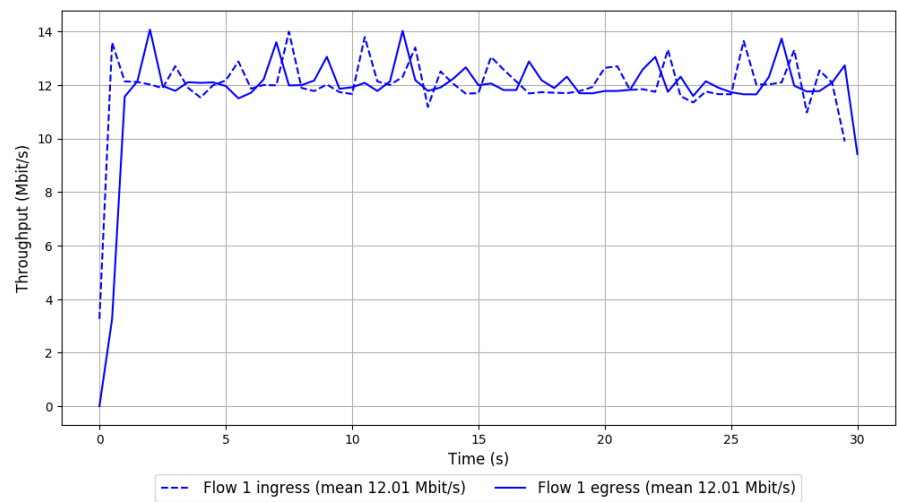
-- Flow 1:

Average throughput: 12.01 Mbit/s

95th percentile per-packet one-way delay: 38.079 ms

Loss rate: 0.16%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-11-24 14:15:24

End at: 2019-11-24 14:15:54

Local clock offset: 2.949 ms

Remote clock offset: 3.833 ms

Below is generated by plot.py at 2019-11-24 15:43:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.99 Mbit/s

95th percentile per-packet one-way delay: 37.743 ms

Loss rate: 0.12%

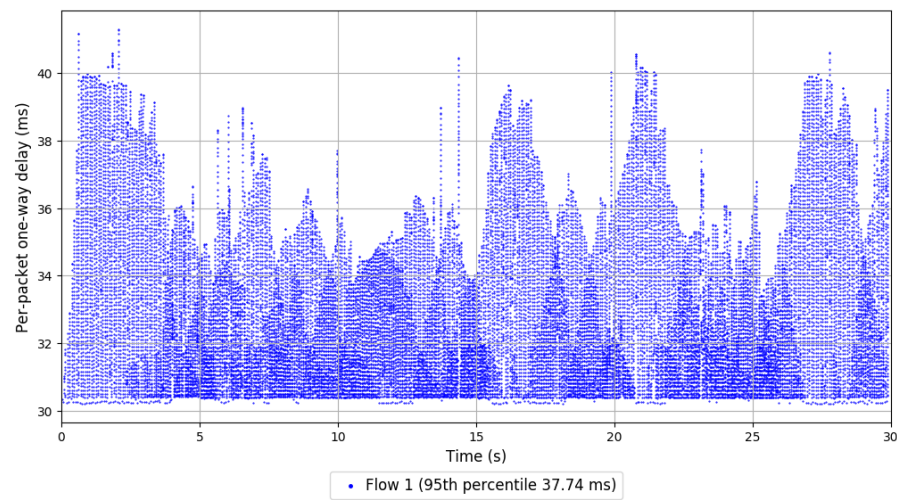
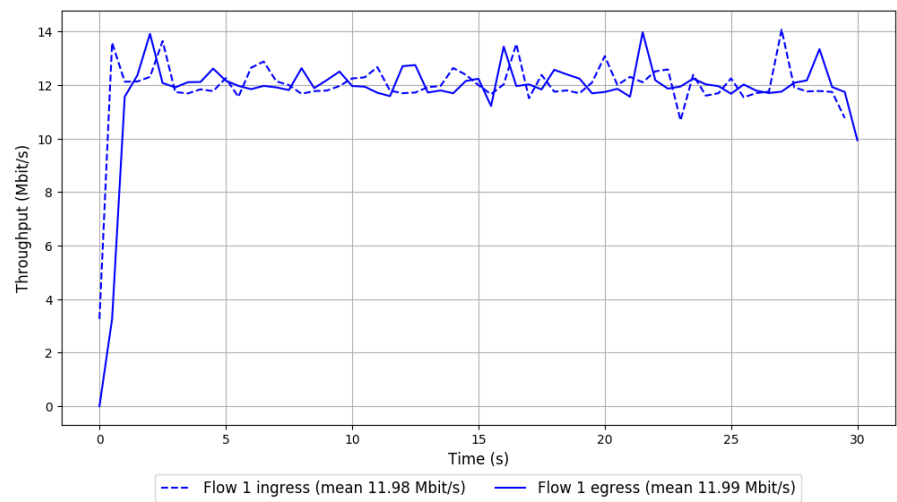
-- Flow 1:

Average throughput: 11.99 Mbit/s

95th percentile per-packet one-way delay: 37.743 ms

Loss rate: 0.12%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-11-24 15:15:57

End at: 2019-11-24 15:16:27

Local clock offset: 3.415 ms

Remote clock offset: 3.932 ms

Below is generated by plot.py at 2019-11-24 15:43:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.02 Mbit/s

95th percentile per-packet one-way delay: 38.536 ms

Loss rate: 0.28%

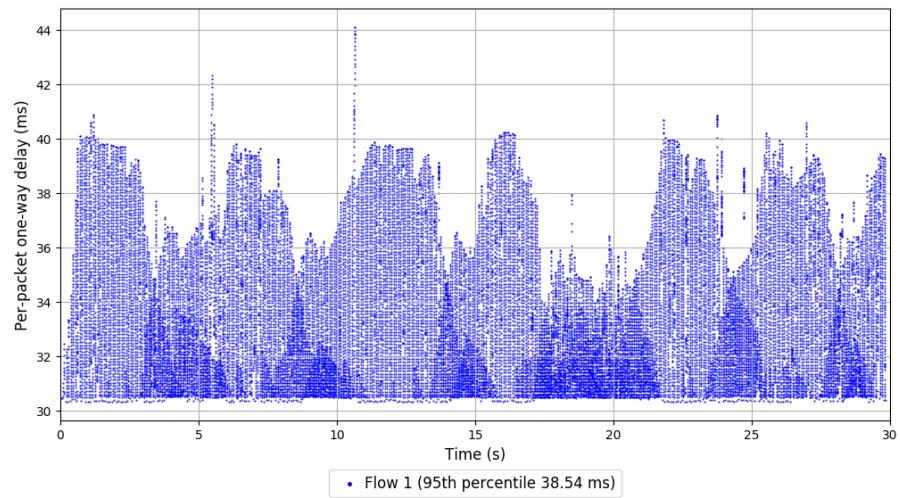
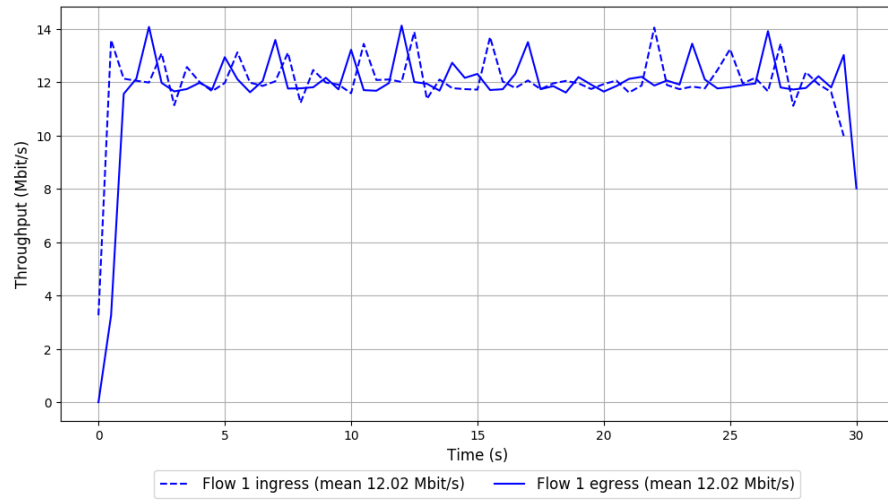
-- Flow 1:

Average throughput: 12.02 Mbit/s

95th percentile per-packet one-way delay: 38.536 ms

Loss rate: 0.28%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-11-24 12:05:17

End at: 2019-11-24 12:05:47

Local clock offset: 2.885 ms

Remote clock offset: 4.35 ms

Below is generated by plot.py at 2019-11-24 15:44:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.46 Mbit/s

95th percentile per-packet one-way delay: 41.605 ms

Loss rate: 0.22%

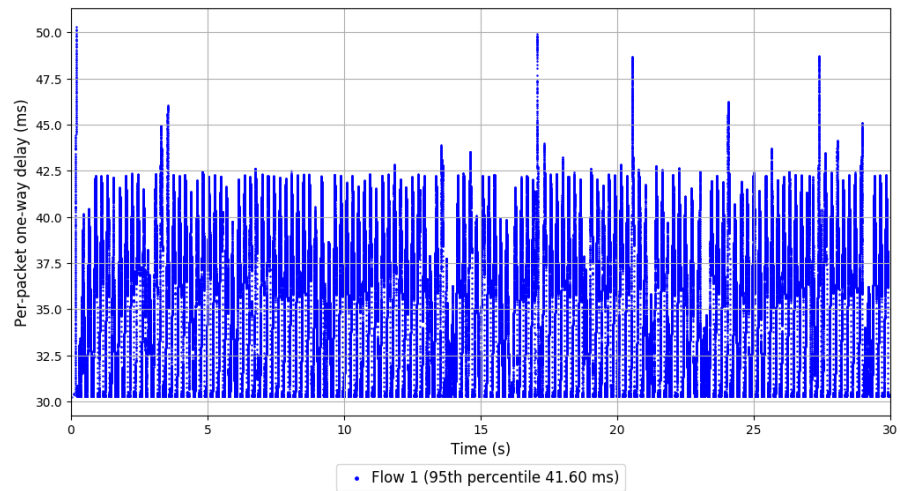
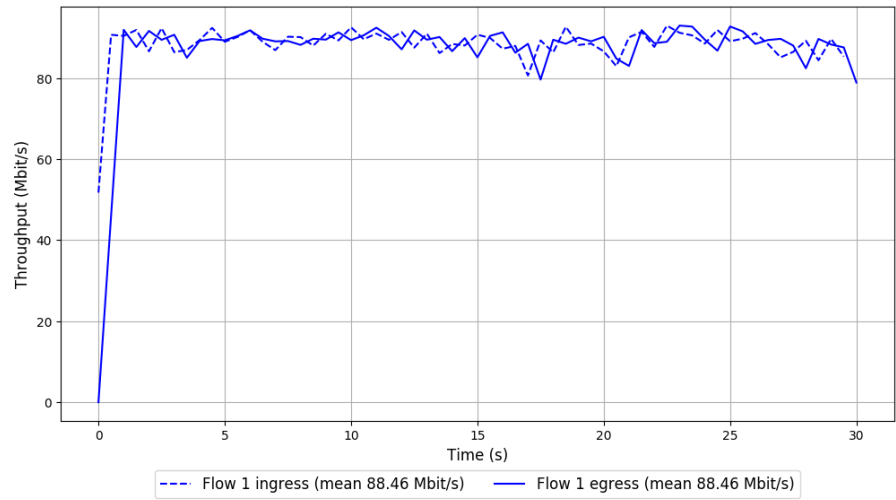
-- Flow 1:

Average throughput: 88.46 Mbit/s

95th percentile per-packet one-way delay: 41.605 ms

Loss rate: 0.22%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-11-24 12:42:55

End at: 2019-11-24 12:43:25

Local clock offset: 3.142 ms

Remote clock offset: 4.425 ms

Below is generated by plot.py at 2019-11-24 15:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.42 Mbit/s

95th percentile per-packet one-way delay: 41.628 ms

Loss rate: 0.25%

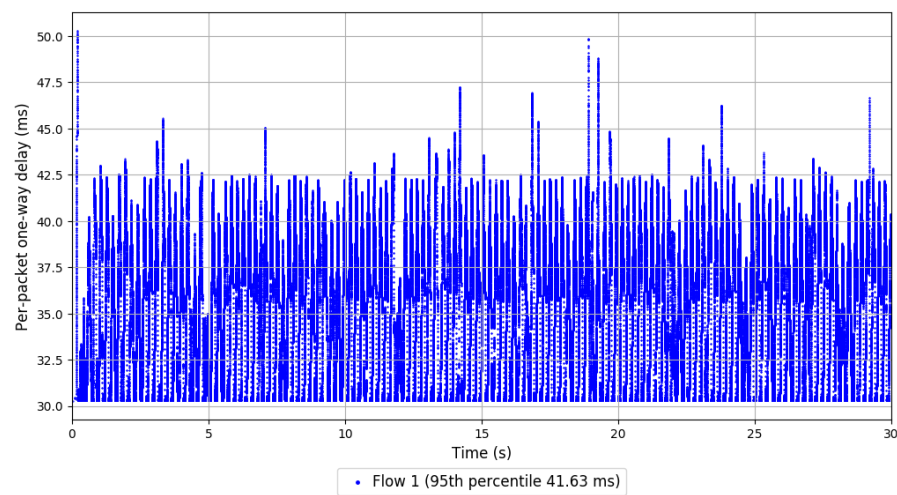
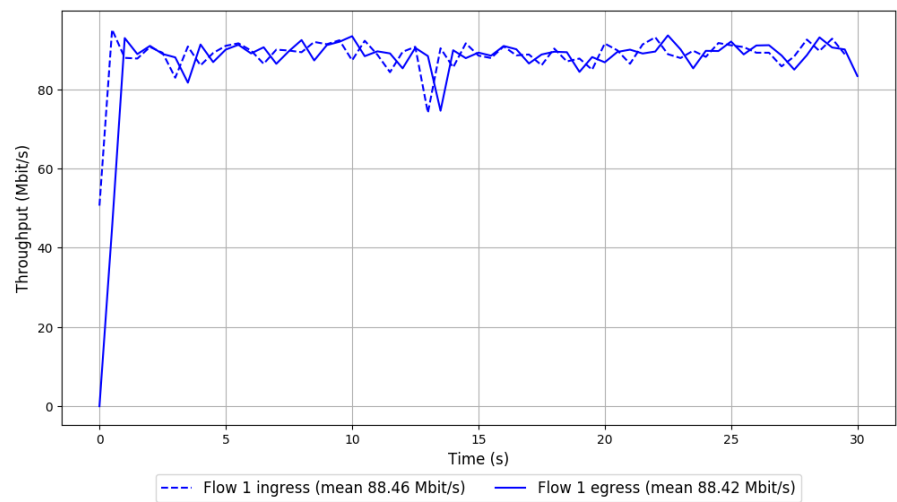
-- Flow 1:

Average throughput: 88.42 Mbit/s

95th percentile per-packet one-way delay: 41.628 ms

Loss rate: 0.25%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-11-24 13:24:39

End at: 2019-11-24 13:25:09

Local clock offset: 2.69 ms

Remote clock offset: 4.264 ms

Below is generated by plot.py at 2019-11-24 15:44:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.81 Mbit/s

95th percentile per-packet one-way delay: 41.609 ms

Loss rate: 0.25%

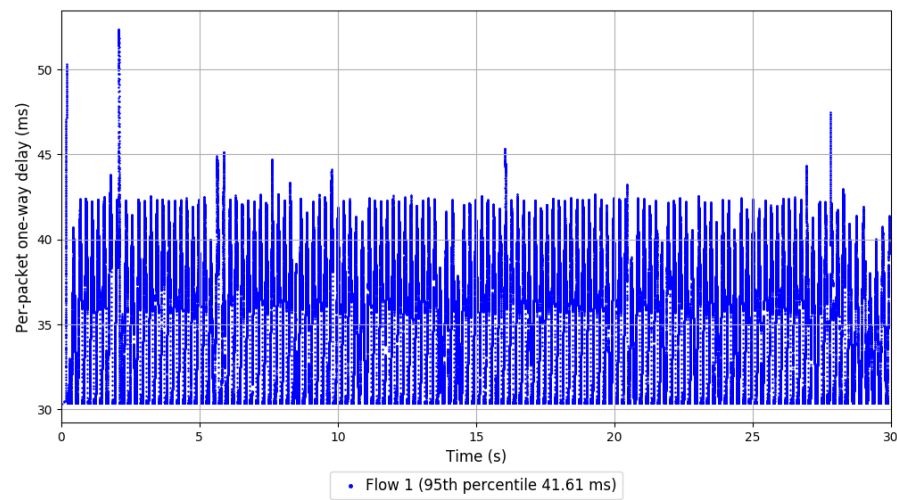
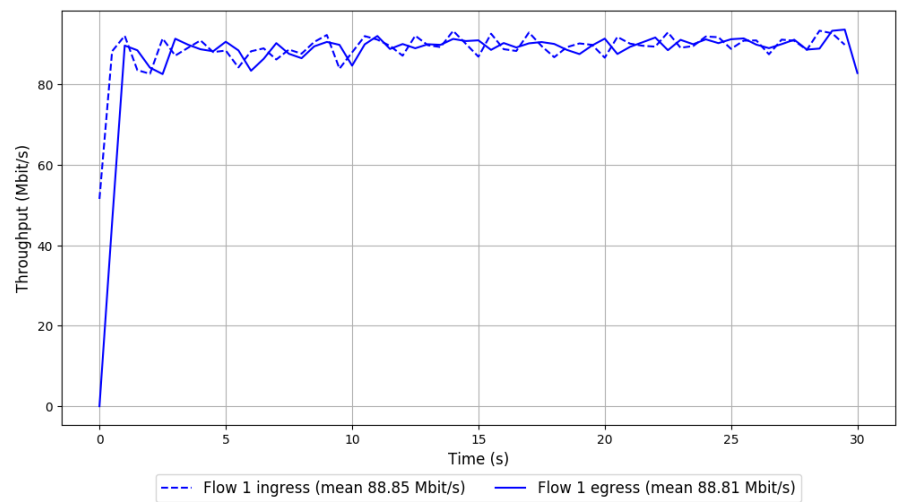
-- Flow 1:

Average throughput: 88.81 Mbit/s

95th percentile per-packet one-way delay: 41.609 ms

Loss rate: 0.25%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-11-24 14:10:40

End at: 2019-11-24 14:11:10

Local clock offset: 2.571 ms

Remote clock offset: 3.689 ms

Below is generated by plot.py at 2019-11-24 15:44:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.15 Mbit/s

95th percentile per-packet one-way delay: 41.655 ms

Loss rate: 0.23%

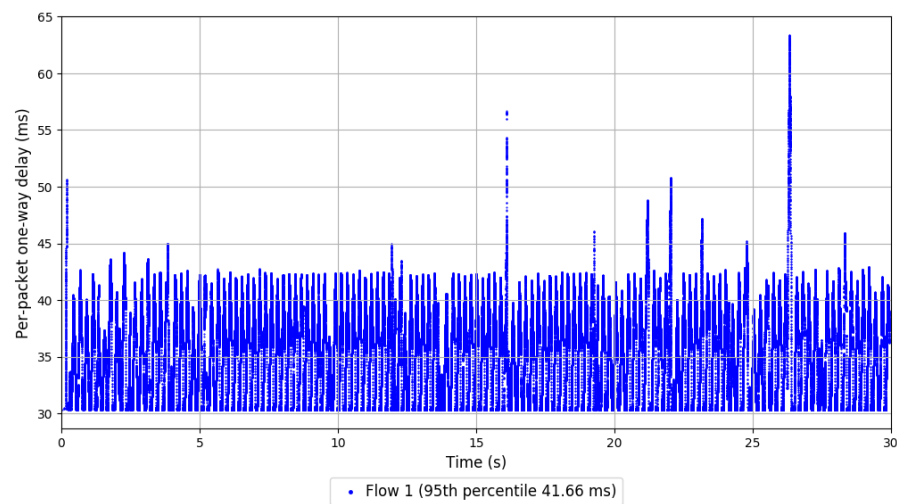
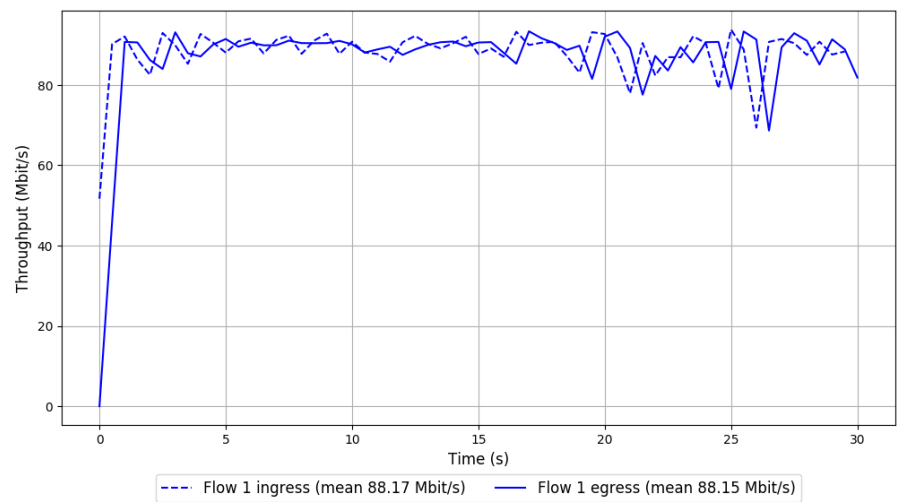
-- Flow 1:

Average throughput: 88.15 Mbit/s

95th percentile per-packet one-way delay: 41.655 ms

Loss rate: 0.23%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-11-24 15:10:24

End at: 2019-11-24 15:10:54

Local clock offset: 3.421 ms

Remote clock offset: 4.026 ms

Below is generated by plot.py at 2019-11-24 15:44:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.70 Mbit/s

95th percentile per-packet one-way delay: 41.655 ms

Loss rate: 0.17%

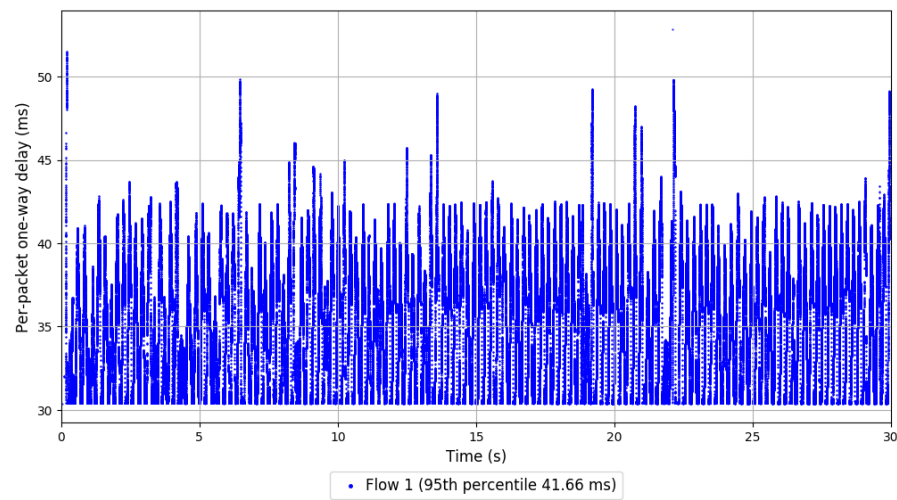
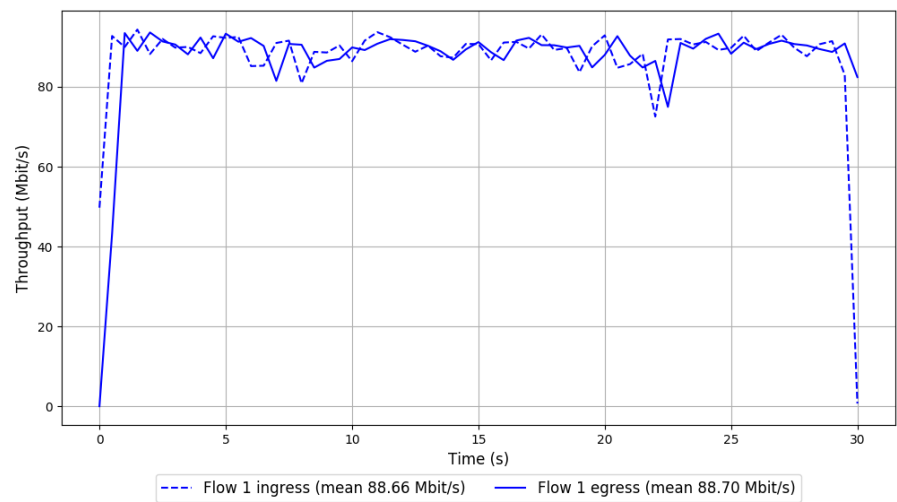
-- Flow 1:

Average throughput: 88.70 Mbit/s

95th percentile per-packet one-way delay: 41.655 ms

Loss rate: 0.17%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-11-24 11:47:56

End at: 2019-11-24 11:48:26

Local clock offset: 2.902 ms

Remote clock offset: 4.053 ms

Below is generated by plot.py at 2019-11-24 15:44:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.58 Mbit/s

95th percentile per-packet one-way delay: 34.936 ms

Loss rate: 0.28%

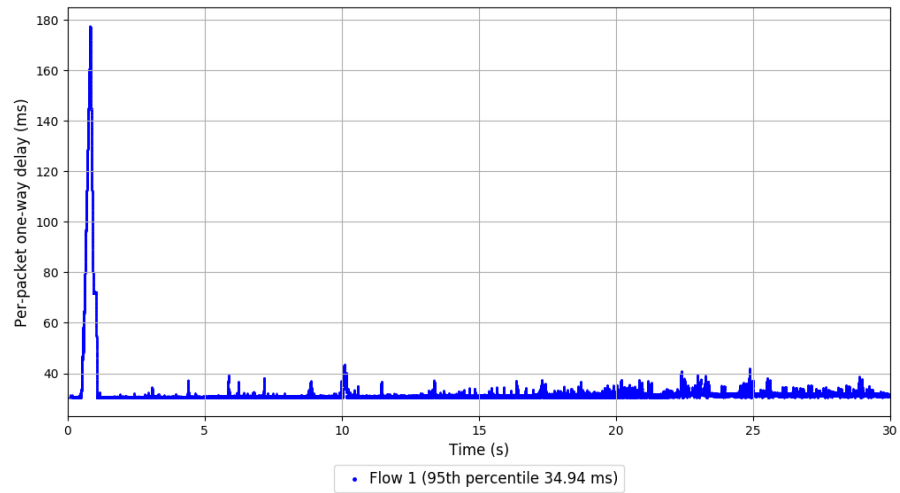
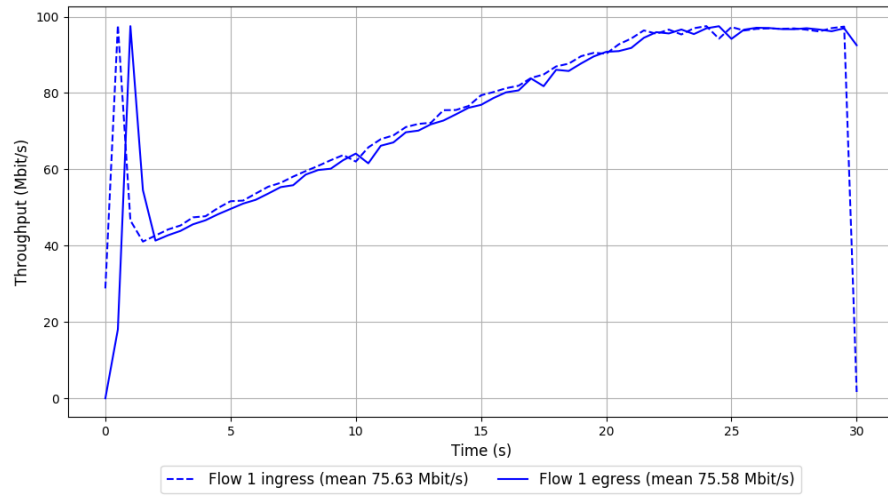
-- Flow 1:

Average throughput: 75.58 Mbit/s

95th percentile per-packet one-way delay: 34.936 ms

Loss rate: 0.28%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-11-24 12:24:06

End at: 2019-11-24 12:24:36

Local clock offset: 3.074 ms

Remote clock offset: 4.776 ms

Below is generated by plot.py at 2019-11-24 15:44:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.23 Mbit/s

95th percentile per-packet one-way delay: 33.723 ms

Loss rate: 0.25%

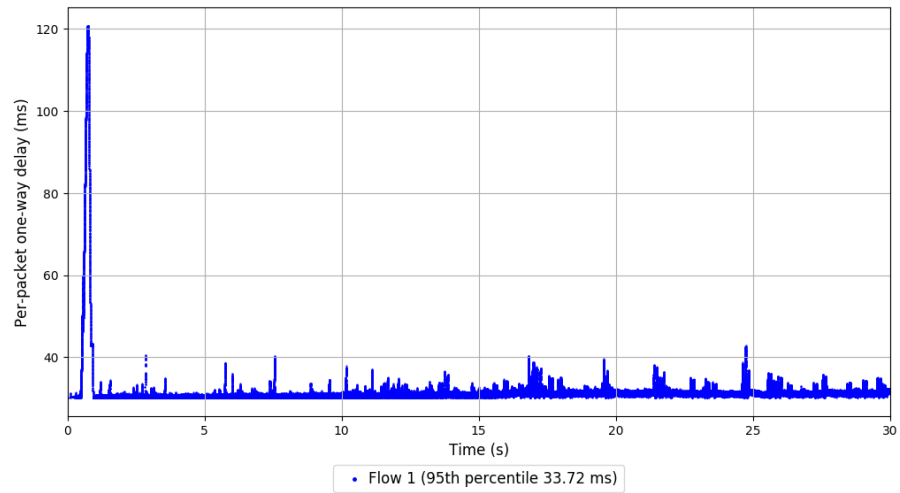
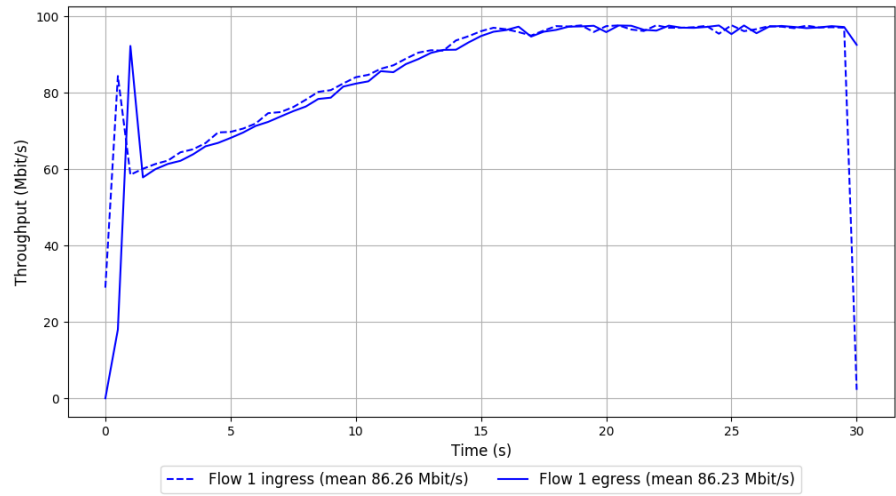
-- Flow 1:

Average throughput: 86.23 Mbit/s

95th percentile per-packet one-way delay: 33.723 ms

Loss rate: 0.25%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-11-24 13:04:45

End at: 2019-11-24 13:05:15

Local clock offset: 3.145 ms

Remote clock offset: 4.354 ms

Below is generated by plot.py at 2019-11-24 15:44:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.52 Mbit/s

95th percentile per-packet one-way delay: 33.445 ms

Loss rate: 0.25%

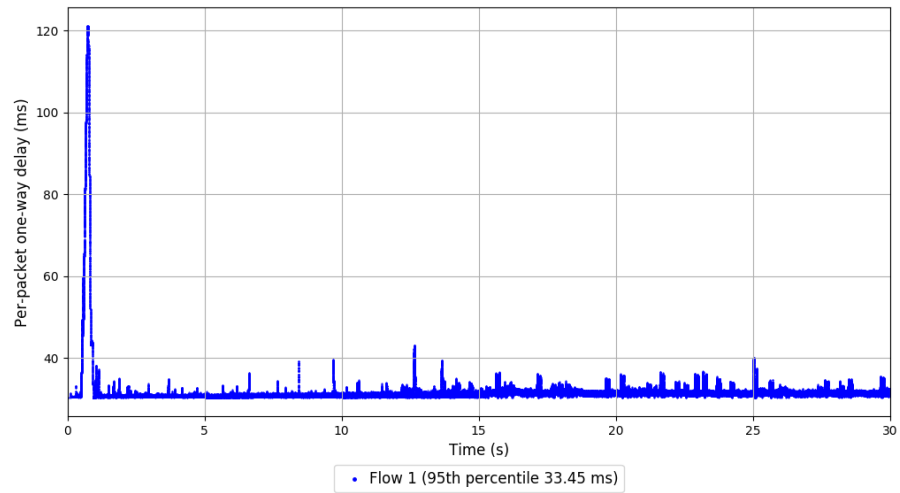
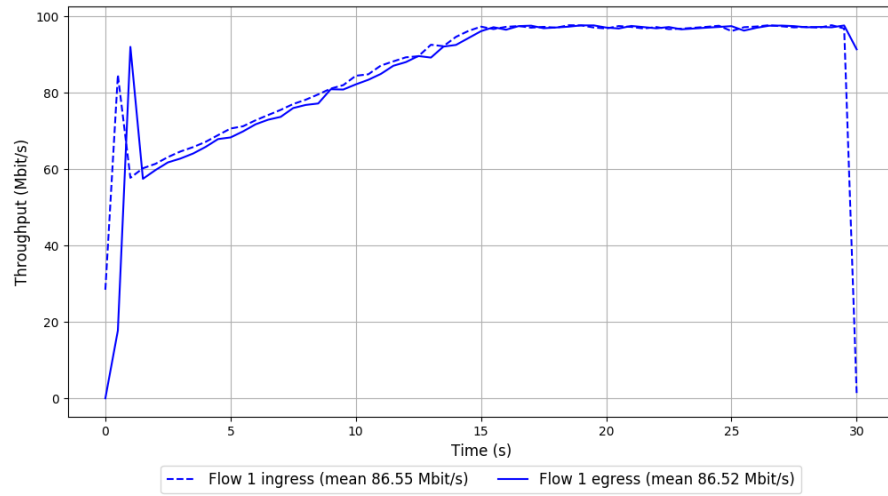
-- Flow 1:

Average throughput: 86.52 Mbit/s

95th percentile per-packet one-way delay: 33.445 ms

Loss rate: 0.25%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-11-24 13:49:14

End at: 2019-11-24 13:49:44

Local clock offset: 2.517 ms

Remote clock offset: 3.687 ms

Below is generated by plot.py at 2019-11-24 15:45:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.57 Mbit/s

95th percentile per-packet one-way delay: 33.552 ms

Loss rate: 0.25%

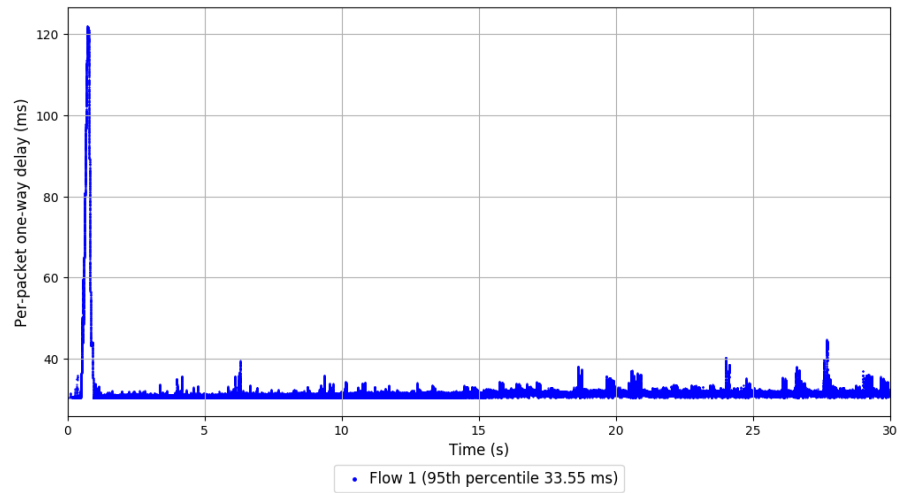
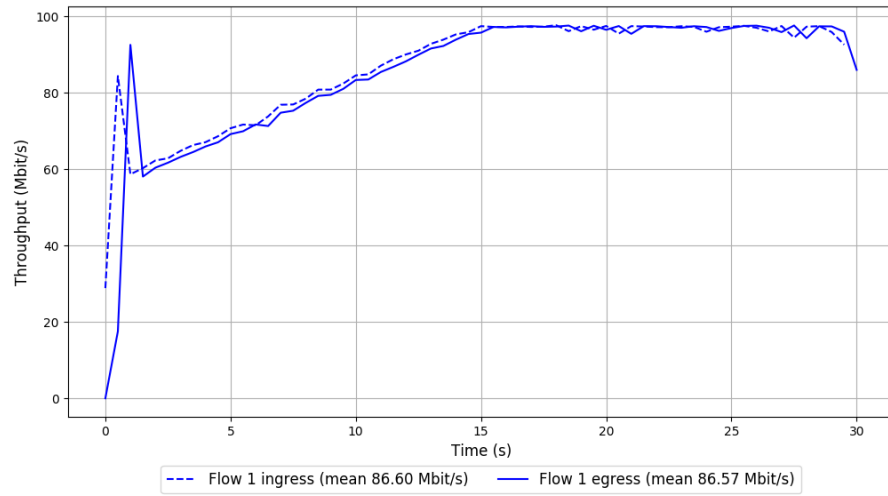
-- Flow 1:

Average throughput: 86.57 Mbit/s

95th percentile per-packet one-way delay: 33.552 ms

Loss rate: 0.25%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-11-24 14:42:45

End at: 2019-11-24 14:43:15

Local clock offset: 3.547 ms

Remote clock offset: 4.093 ms

Below is generated by plot.py at 2019-11-24 15:45:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.08 Mbit/s

95th percentile per-packet one-way delay: 35.057 ms

Loss rate: 0.28%

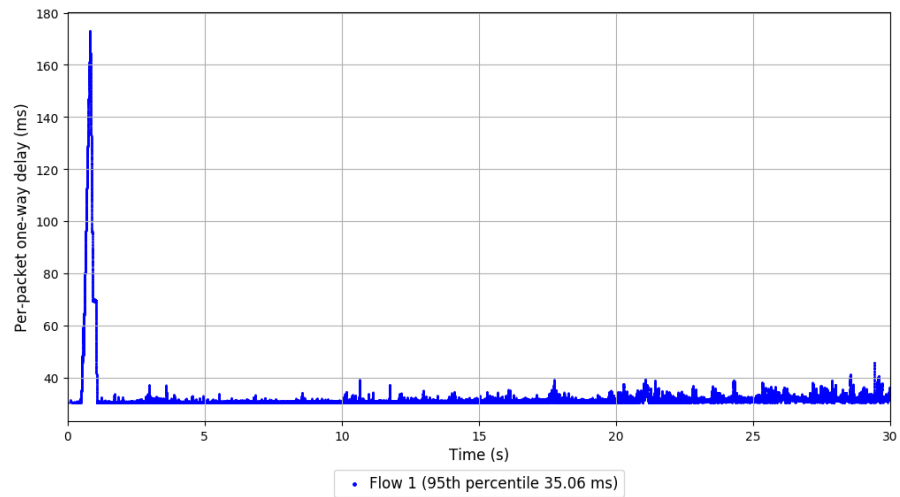
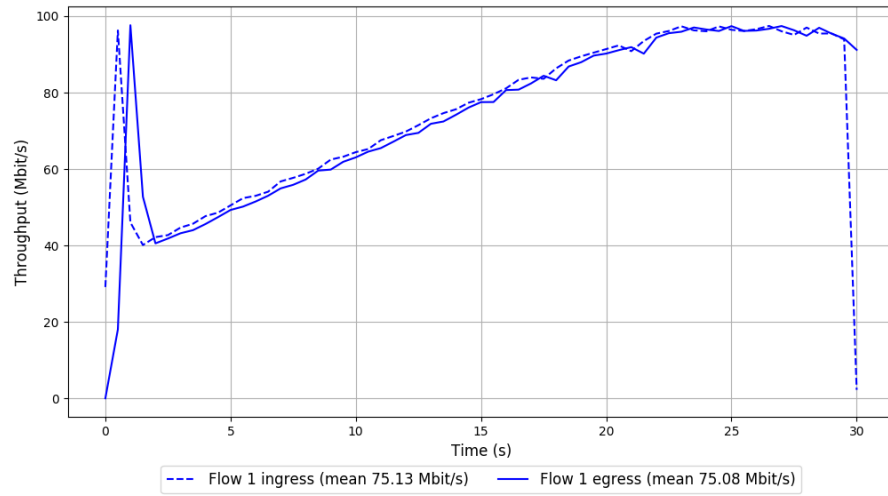
-- Flow 1:

Average throughput: 75.08 Mbit/s

95th percentile per-packet one-way delay: 35.057 ms

Loss rate: 0.28%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-11-24 11:59:34

End at: 2019-11-24 12:00:04

Local clock offset: 2.869 ms

Remote clock offset: 4.391 ms

Below is generated by plot.py at 2019-11-24 15:45:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.05 Mbit/s

95th percentile per-packet one-way delay: 72.066 ms

Loss rate: 0.26%

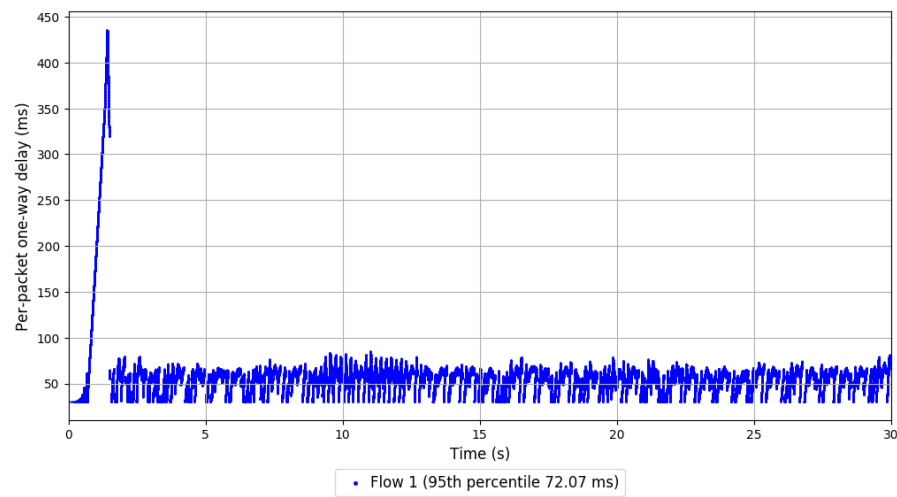
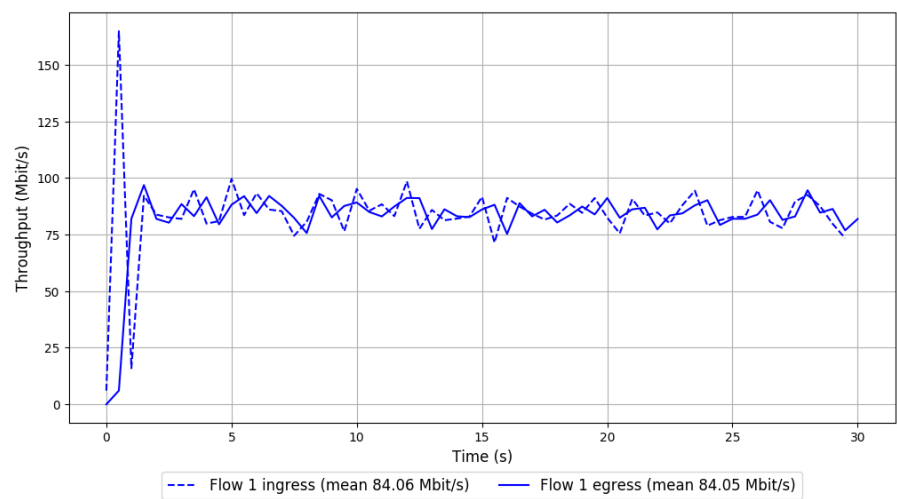
-- Flow 1:

Average throughput: 84.05 Mbit/s

95th percentile per-packet one-way delay: 72.066 ms

Loss rate: 0.26%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-11-24 12:36:33

End at: 2019-11-24 12:37:03

Local clock offset: 3.128 ms

Remote clock offset: 4.594 ms

Below is generated by plot.py at 2019-11-24 15:45:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.23 Mbit/s

95th percentile per-packet one-way delay: 70.968 ms

Loss rate: 0.57%

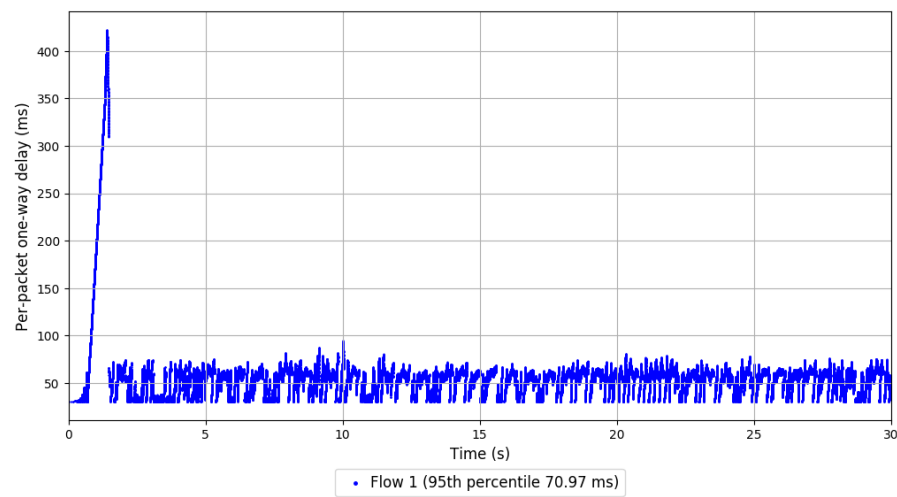
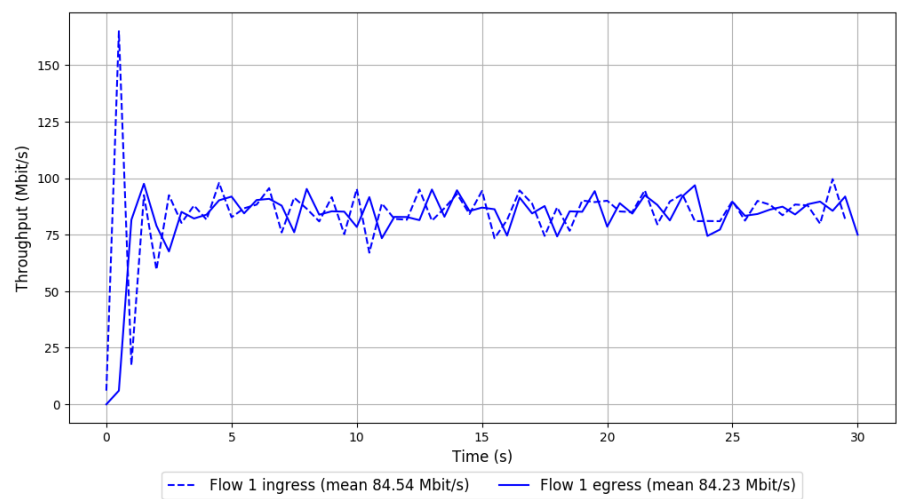
-- Flow 1:

Average throughput: 84.23 Mbit/s

95th percentile per-packet one-way delay: 70.968 ms

Loss rate: 0.57%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-11-24 13:18:10

End at: 2019-11-24 13:18:40

Local clock offset: 2.851 ms

Remote clock offset: 4.403 ms

Below is generated by plot.py at 2019-11-24 15:45:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.33 Mbit/s

95th percentile per-packet one-way delay: 70.259 ms

Loss rate: 0.52%

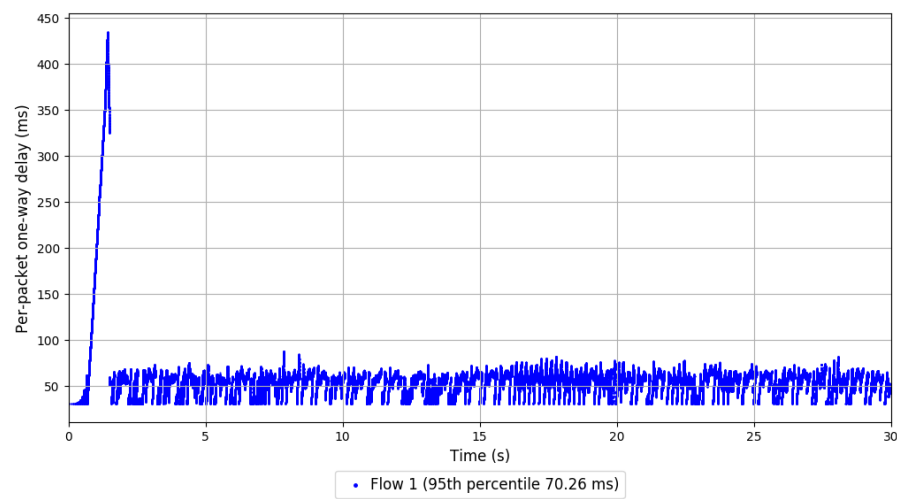
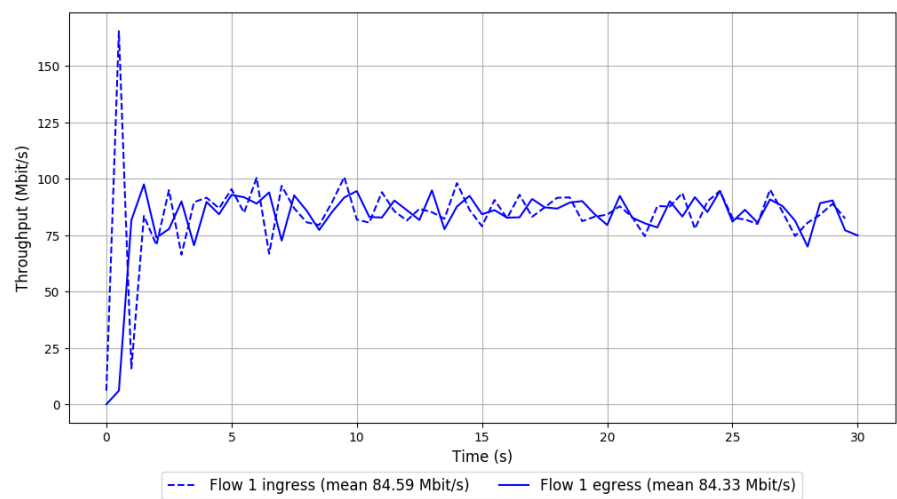
-- Flow 1:

Average throughput: 84.33 Mbit/s

95th percentile per-packet one-way delay: 70.259 ms

Loss rate: 0.52%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-11-24 14:03:21

End at: 2019-11-24 14:03:52

Local clock offset: 2.461 ms

Remote clock offset: 3.624 ms

Below is generated by plot.py at 2019-11-24 15:45:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.20 Mbit/s

95th percentile per-packet one-way delay: 70.275 ms

Loss rate: 0.60%

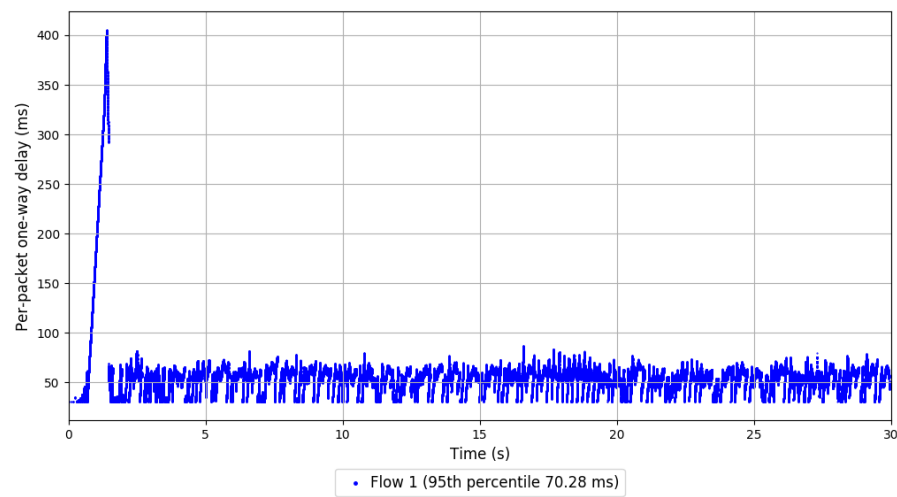
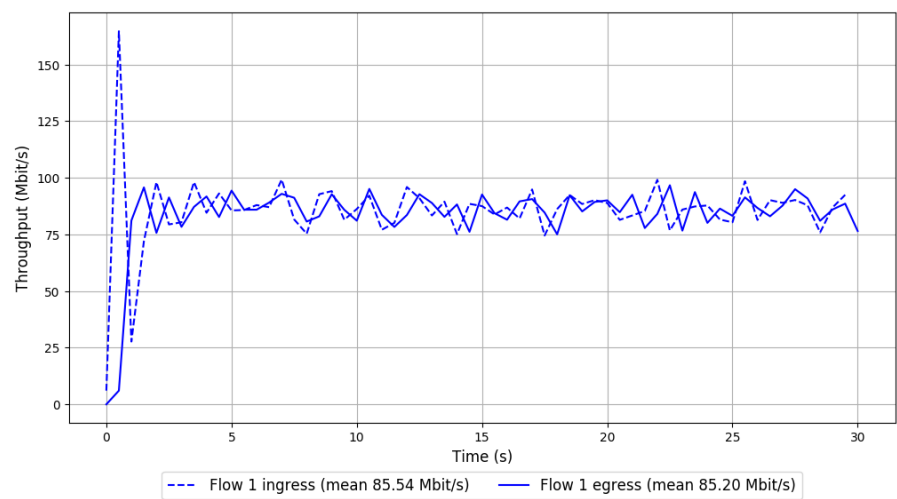
-- Flow 1:

Average throughput: 85.20 Mbit/s

95th percentile per-packet one-way delay: 70.275 ms

Loss rate: 0.60%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-11-24 15:00:11

End at: 2019-11-24 15:00:41

Local clock offset: 3.37 ms

Remote clock offset: 4.094 ms

Below is generated by plot.py at 2019-11-24 15:45:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.91 Mbit/s

95th percentile per-packet one-way delay: 71.659 ms

Loss rate: 0.61%

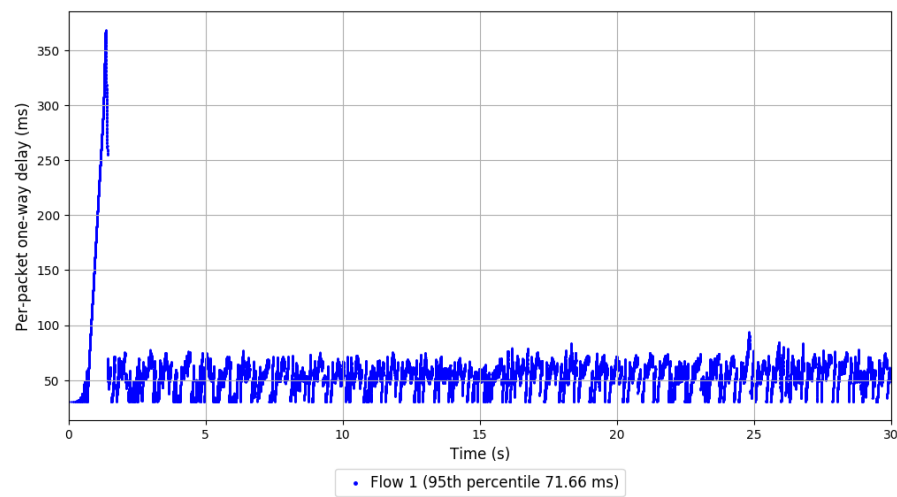
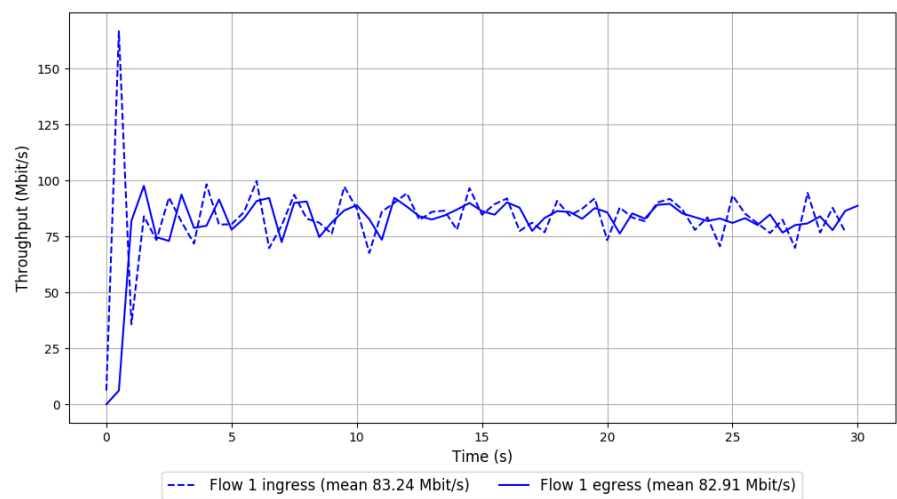
-- Flow 1:

Average throughput: 82.91 Mbit/s

95th percentile per-packet one-way delay: 71.659 ms

Loss rate: 0.61%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-11-24 12:06:57

End at: 2019-11-24 12:07:27

Local clock offset: 2.902 ms

Remote clock offset: 4.373 ms

Below is generated by plot.py at 2019-11-24 15:45:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.31 Mbit/s

95th percentile per-packet one-way delay: 33.845 ms

Loss rate: 0.33%

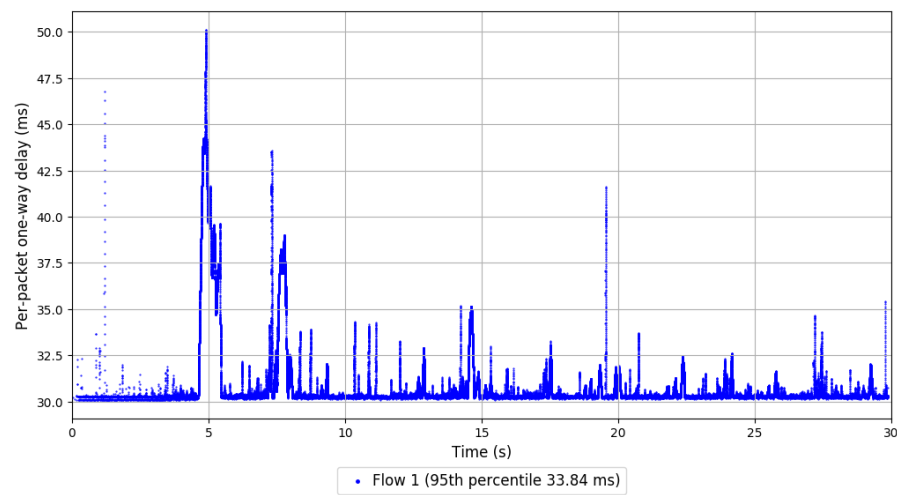
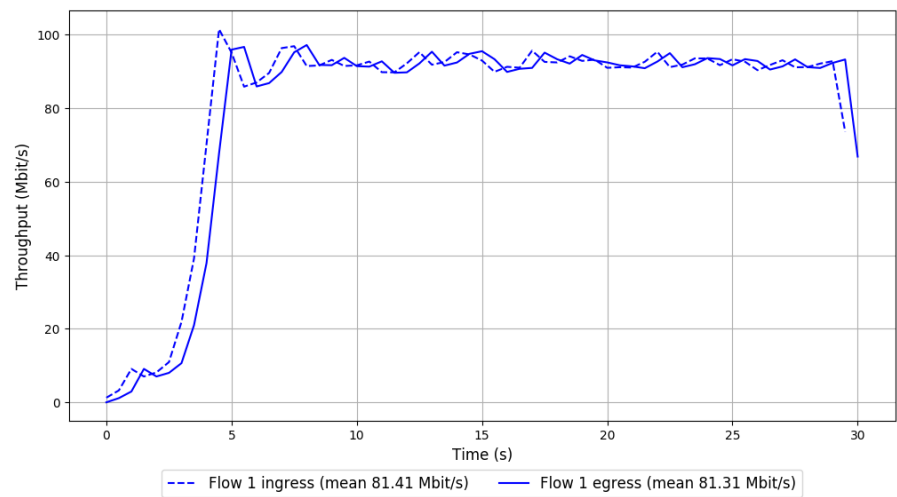
-- Flow 1:

Average throughput: 81.31 Mbit/s

95th percentile per-packet one-way delay: 33.845 ms

Loss rate: 0.33%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-11-24 12:44:42

End at: 2019-11-24 12:45:12

Local clock offset: 3.111 ms

Remote clock offset: 4.476 ms

Below is generated by plot.py at 2019-11-24 15:46:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.67 Mbit/s

95th percentile per-packet one-way delay: 32.068 ms

Loss rate: 0.23%

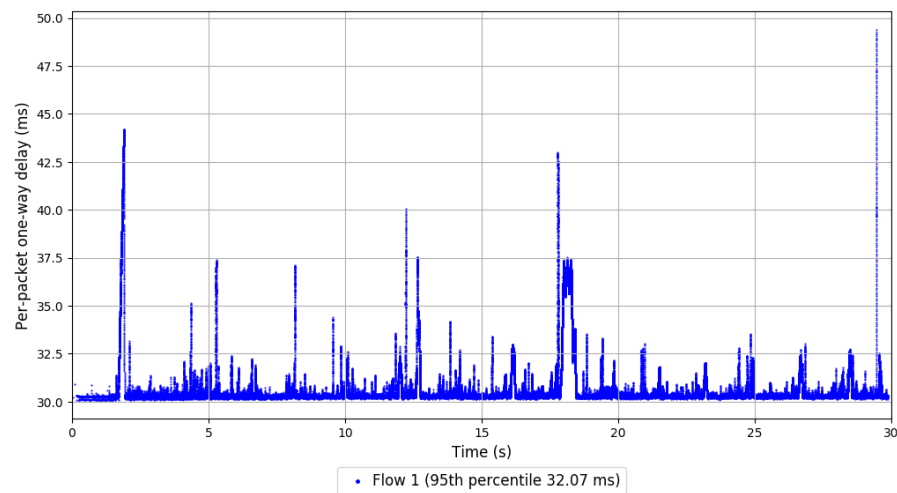
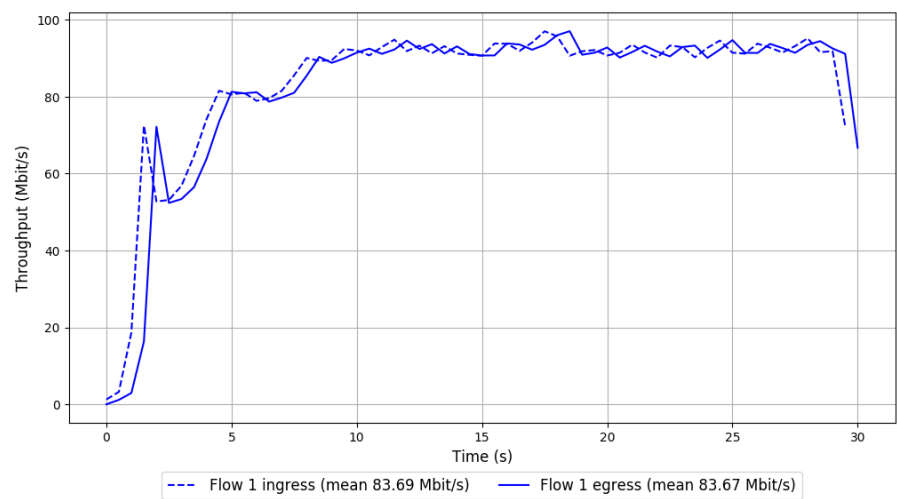
-- Flow 1:

Average throughput: 83.67 Mbit/s

95th percentile per-packet one-way delay: 32.068 ms

Loss rate: 0.23%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-11-24 13:26:40

End at: 2019-11-24 13:27:10

Local clock offset: 2.691 ms

Remote clock offset: 4.243 ms

Below is generated by plot.py at 2019-11-24 15:46:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.64 Mbit/s

95th percentile per-packet one-way delay: 34.427 ms

Loss rate: 0.26%

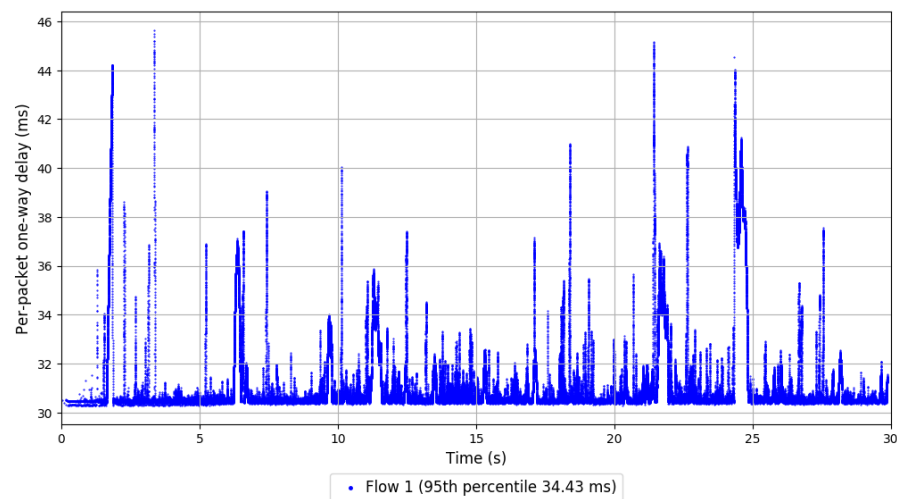
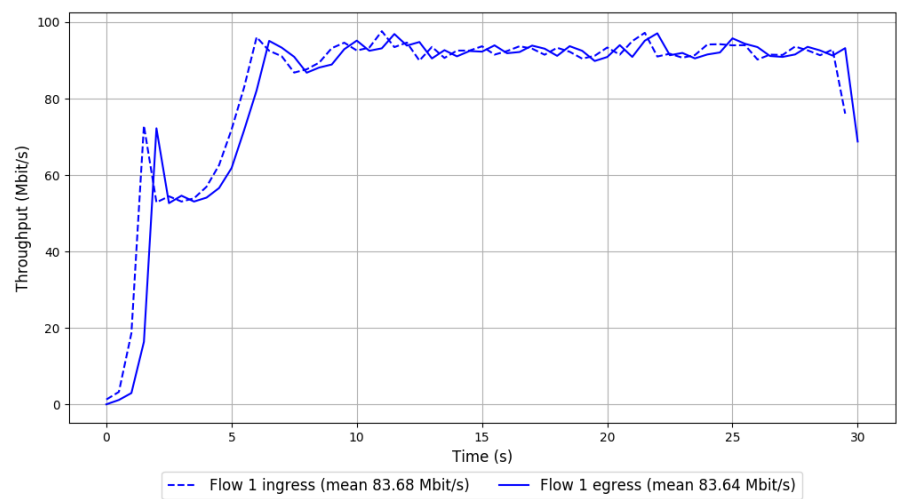
-- Flow 1:

Average throughput: 83.64 Mbit/s

95th percentile per-packet one-way delay: 34.427 ms

Loss rate: 0.26%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-11-24 14:13:41

End at: 2019-11-24 14:14:11

Local clock offset: 2.821 ms

Remote clock offset: 3.839 ms

Below is generated by plot.py at 2019-11-24 15:46:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.15 Mbit/s

95th percentile per-packet one-way delay: 33.763 ms

Loss rate: 0.24%

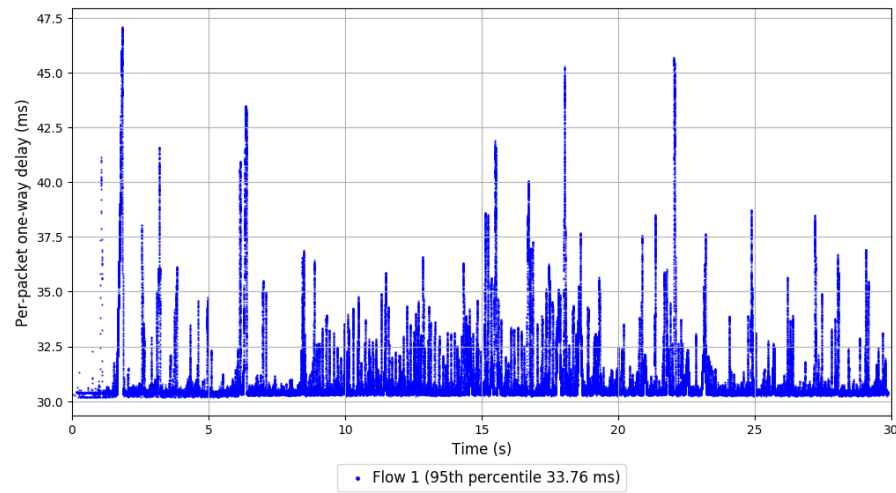
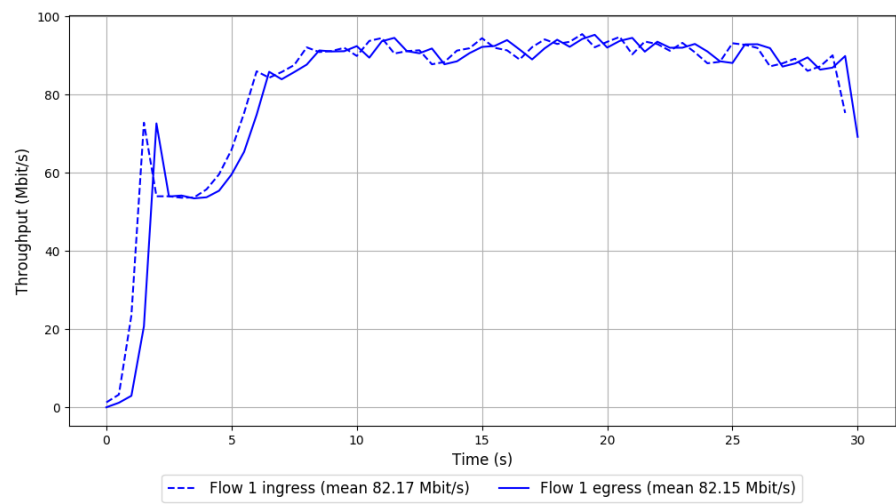
-- Flow 1:

Average throughput: 82.15 Mbit/s

95th percentile per-packet one-way delay: 33.763 ms

Loss rate: 0.24%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-11-24 15:13:23

End at: 2019-11-24 15:13:53

Local clock offset: 3.426 ms

Remote clock offset: 4.018 ms

Below is generated by plot.py at 2019-11-24 15:46:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.44 Mbit/s

95th percentile per-packet one-way delay: 36.891 ms

Loss rate: 0.25%

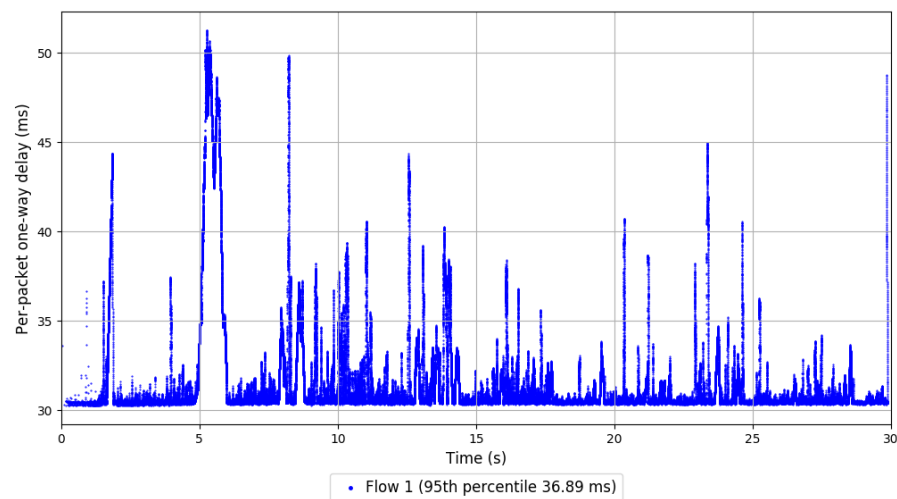
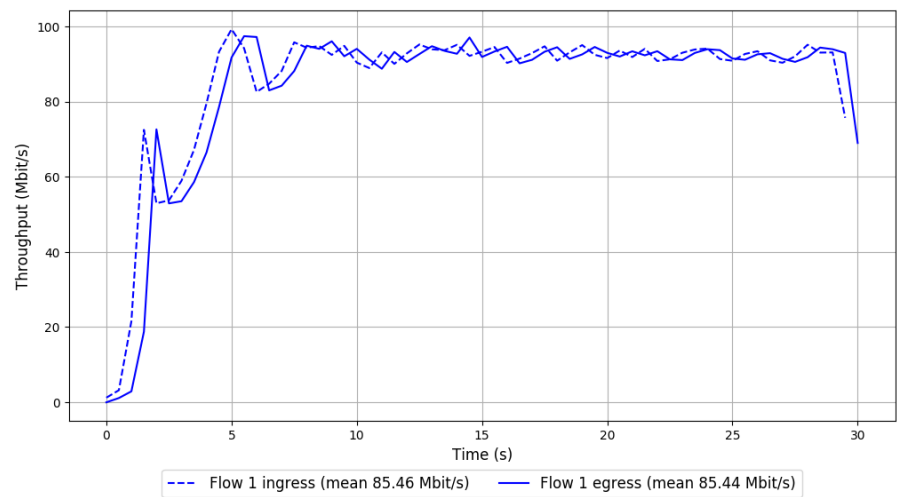
-- Flow 1:

Average throughput: 85.44 Mbit/s

95th percentile per-packet one-way delay: 36.891 ms

Loss rate: 0.25%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-11-24 11:52:21

End at: 2019-11-24 11:52:51

Local clock offset: 2.92 ms

Remote clock offset: 4.26 ms

Below is generated by plot.py at 2019-11-24 15:46:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 30.721 ms

Loss rate: 0.25%

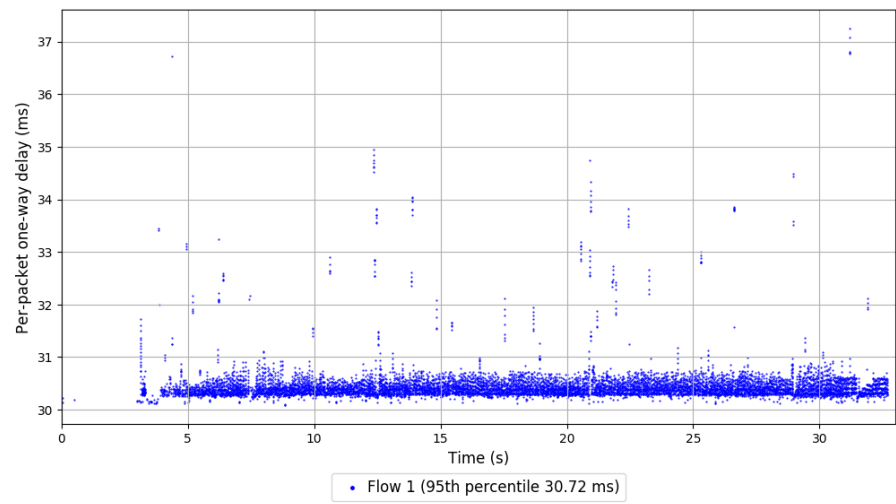
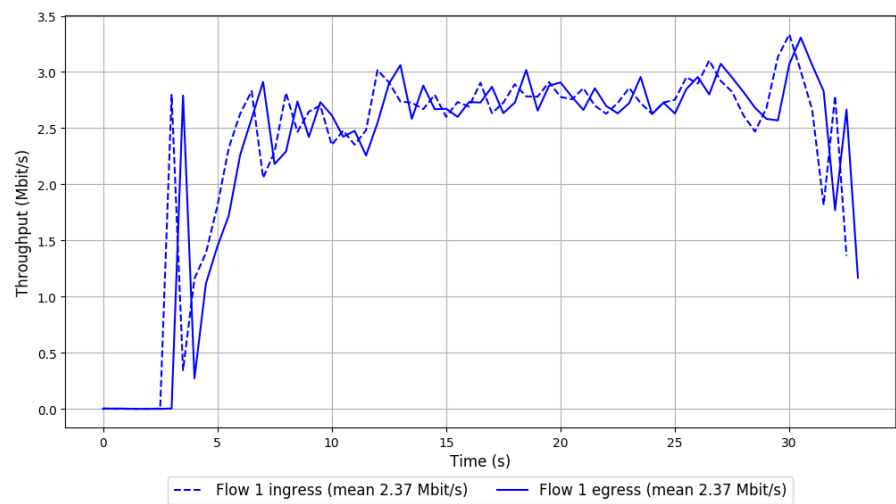
-- Flow 1:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 30.721 ms

Loss rate: 0.25%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-11-24 12:28:29

End at: 2019-11-24 12:28:59

Local clock offset: 3.116 ms

Remote clock offset: 4.634 ms

Below is generated by plot.py at 2019-11-24 15:46:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 30.829 ms

Loss rate: 0.27%

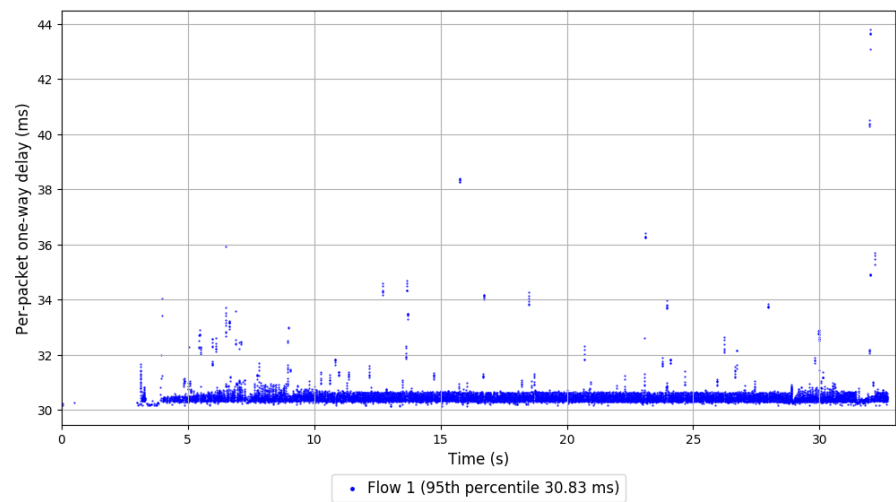
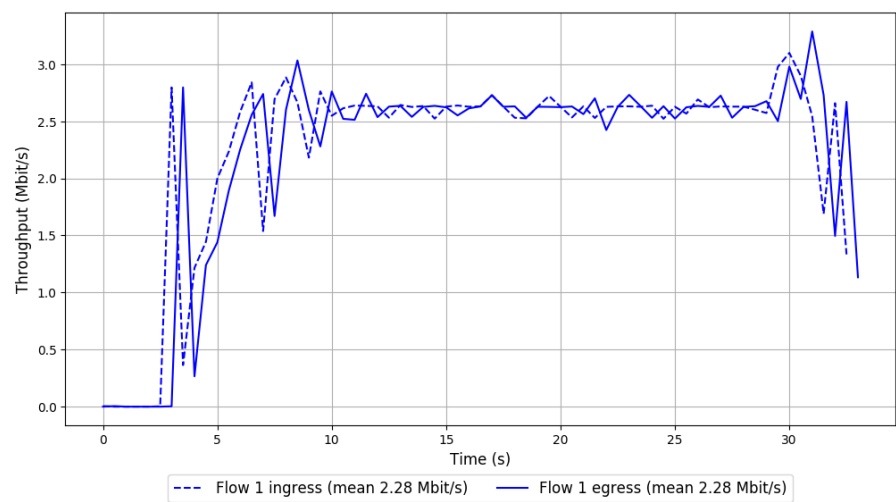
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 30.829 ms

Loss rate: 0.27%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-11-24 13:09:46

End at: 2019-11-24 13:10:16

Local clock offset: 3.142 ms

Remote clock offset: 4.343 ms

Below is generated by plot.py at 2019-11-24 15:46:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 30.756 ms

Loss rate: 0.25%

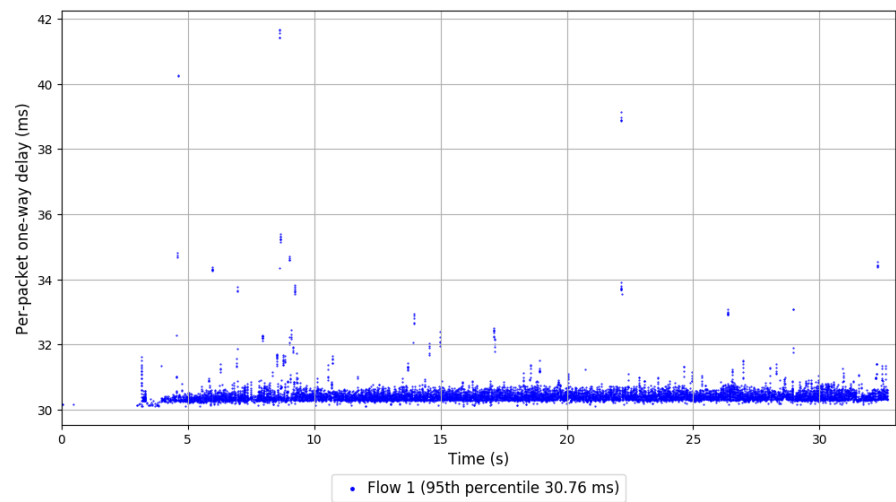
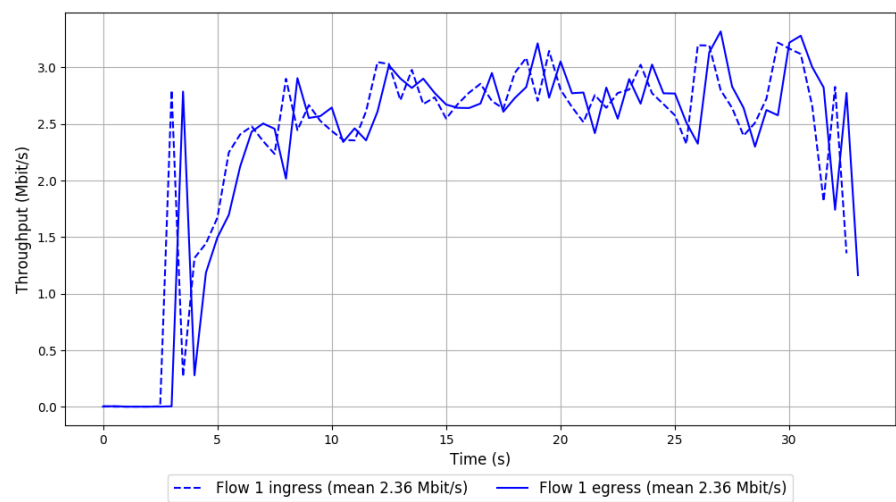
-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 30.756 ms

Loss rate: 0.25%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-11-24 13:54:00

End at: 2019-11-24 13:54:30

Local clock offset: 2.49 ms

Remote clock offset: 3.656 ms

Below is generated by plot.py at 2019-11-24 15:46:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 31.318 ms

Loss rate: 0.17%

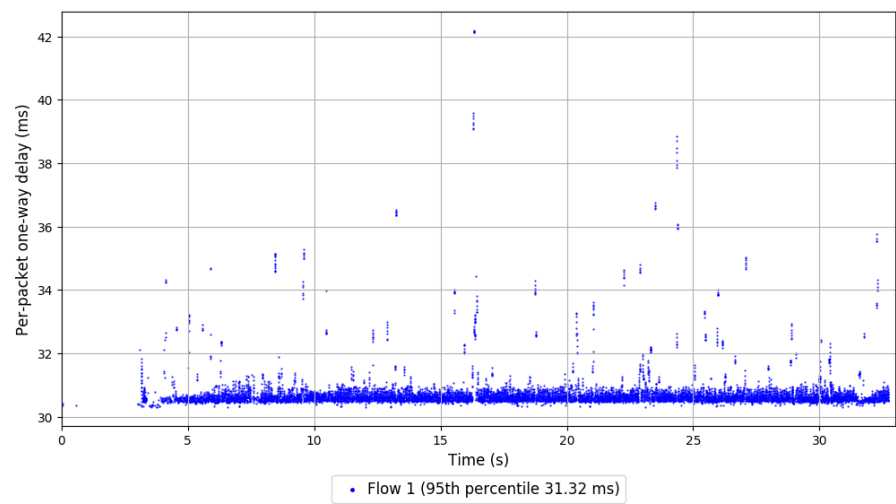
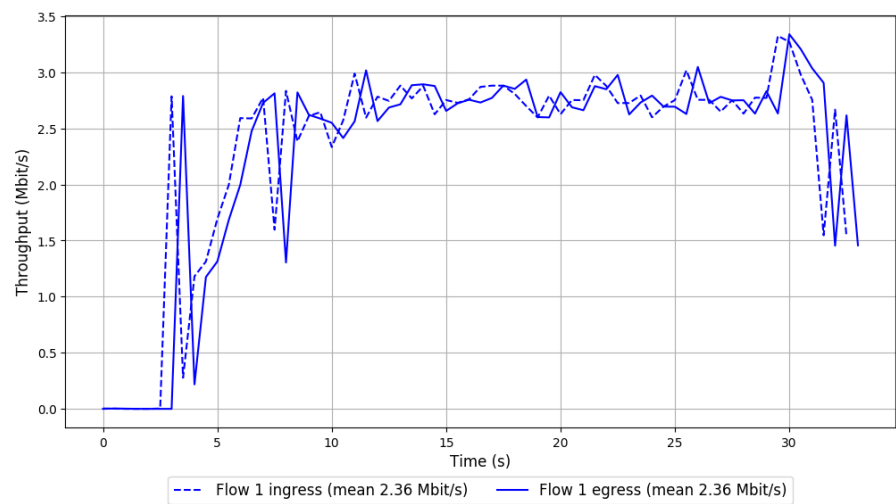
-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 31.318 ms

Loss rate: 0.17%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-11-24 14:49:31

End at: 2019-11-24 14:50:01

Local clock offset: 3.42 ms

Remote clock offset: 3.951 ms

Below is generated by plot.py at 2019-11-24 15:46:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 32.266 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 32.266 ms

Loss rate: 0.26%

Run 5: Report of WebRTC media — Data Link

