

## Pantheon Report

Generated at 2019-09-18 20:42:06 (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:

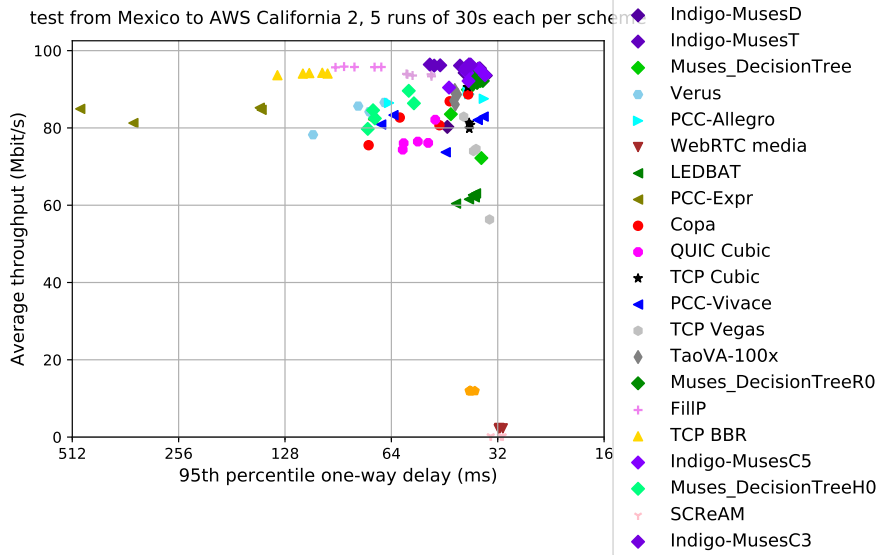
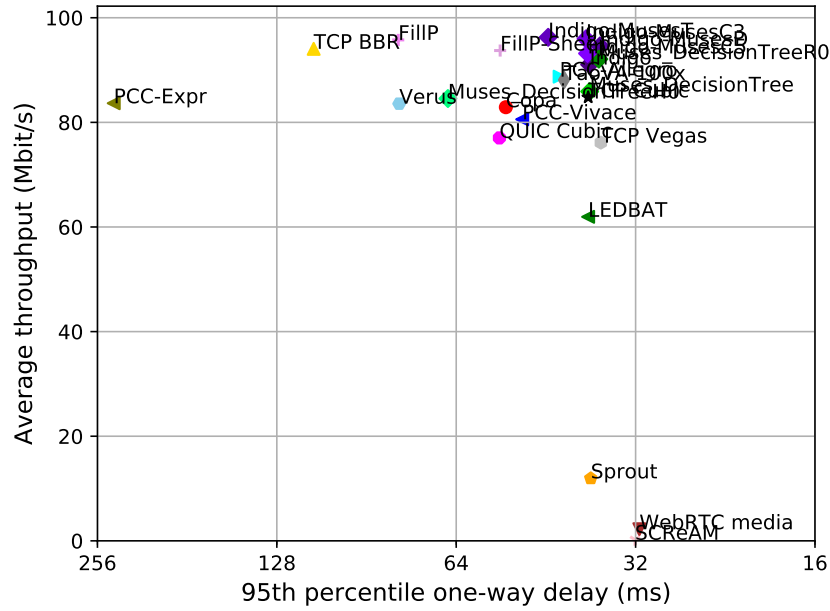
```
Linux 4.15.0-1045-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

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

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

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



scheme	# runs	mean avg tput (Mbit/s)	mean 95th-%ile delay (ms)	mean loss rate (%)
		flow 1	flow 1	flow 1
TCP BBR	5	94.06	111.01	2.68
Copa	5	82.90	52.83	0.20
TCP Cubic	5	84.79	38.43	0.25
FillP	5	95.77	80.07	1.19
FillP-Sheep	5	93.73	54.01	0.28
Indigo	5	91.05	38.22	0.22
Indigo-MusesC3	5	95.96	38.76	0.24
Indigo-MusesC5	5	93.18	38.53	0.24
Indigo-MusesD	5	94.62	36.71	0.23
Indigo-MusesT	5	96.26	44.86	0.30
LEDBAT	5	61.94	38.45	0.37
Muses_DecisionTree	5	85.91	38.21	0.48
Muses_DecisionTreeH0	5	84.55	66.09	0.31
Muses_DecisionTreeR0	5	92.09	36.89	0.23
PCC-Allegro	5	88.74	42.92	0.28
PCC-Expr	5	83.65	240.41	0.69
QUIC Cubic	5	77.03	54.16	0.25
SCReAM	5	0.21	32.07	0.26
Sprout	5	11.95	38.05	0.19
TaoVA-100x	5	88.11	42.20	0.22
TCP Vegas	5	76.13	36.60	0.26
Verus	5	83.57	79.77	0.46
PCC-Vivace	5	80.58	49.60	0.28
WebRTC media	5	2.21	31.54	0.25



Run 1: Statistics of TCP BBR

Start at: 2019-09-18 16:02:41

End at: 2019-09-18 16:03:11

Local clock offset: 3.878 ms

Remote clock offset: 7.555 ms

# Below is generated by plot.py at 2019-09-18 20:27:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.20 Mbit/s

95th percentile per-packet one-way delay: 109.274 ms

Loss rate: 3.49%

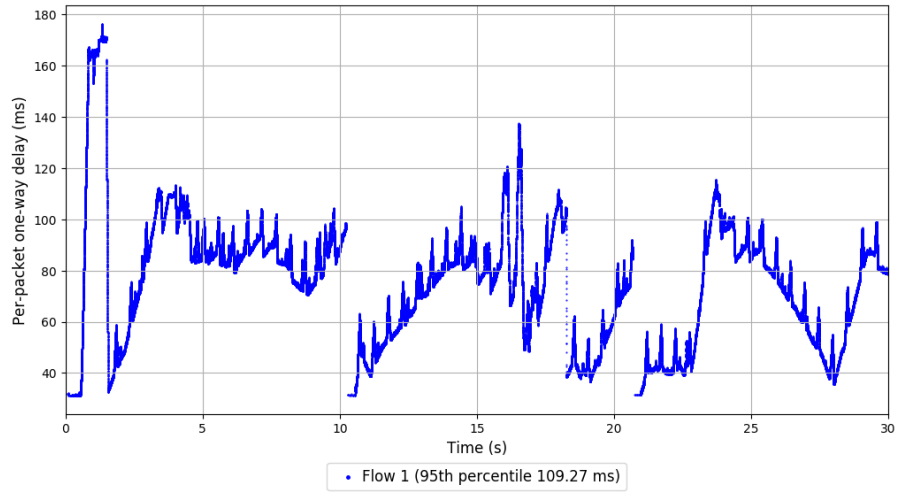
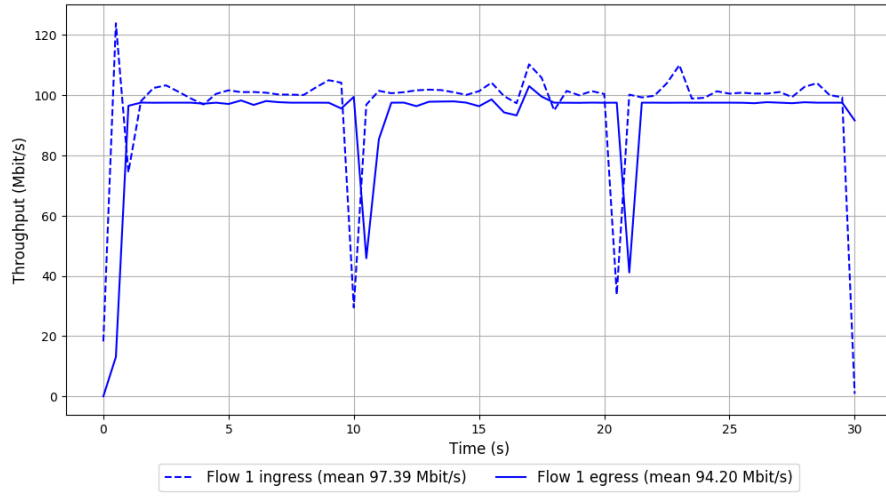
-- Flow 1:

Average throughput: 94.20 Mbit/s

95th percentile per-packet one-way delay: 109.274 ms

Loss rate: 3.49%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-09-18 16:47:39

End at: 2019-09-18 16:48:09

Local clock offset: 0.195 ms

Remote clock offset: 8.633 ms

# Below is generated by plot.py at 2019-09-18 20:27:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.08 Mbit/s

95th percentile per-packet one-way delay: 96.994 ms

Loss rate: 2.29%

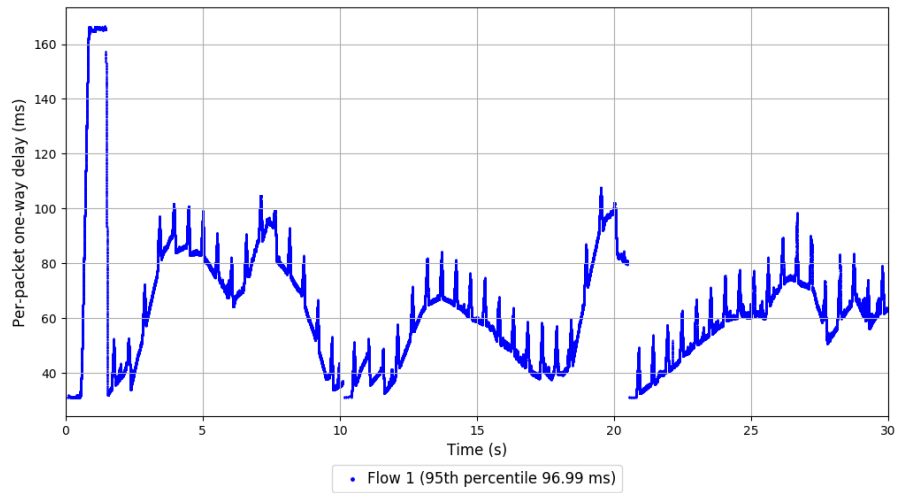
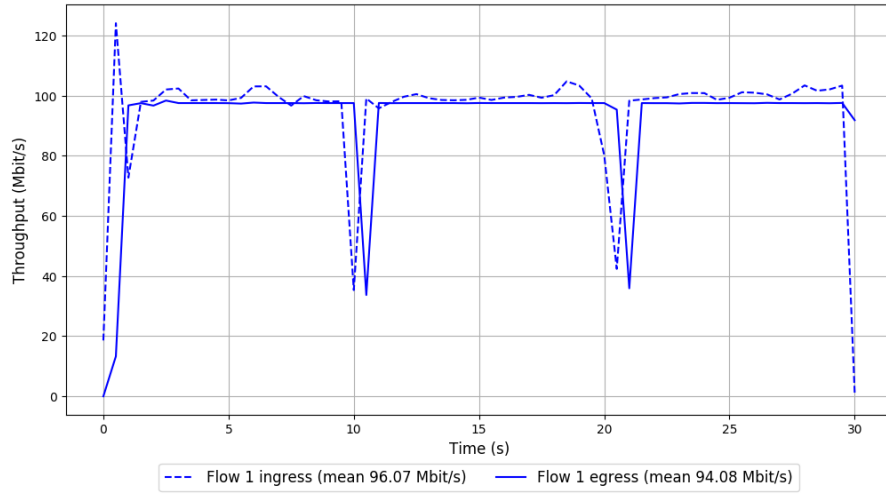
-- Flow 1:

Average throughput: 94.08 Mbit/s

95th percentile per-packet one-way delay: 96.994 ms

Loss rate: 2.29%

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



Run 3: Statistics of TCP BBR

Start at: 2019-09-18 17:37:04

End at: 2019-09-18 17:37:34

Local clock offset: -3.384 ms

Remote clock offset: 9.249 ms

# Below is generated by plot.py at 2019-09-18 20:27:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.28 Mbit/s

95th percentile per-packet one-way delay: 100.378 ms

Loss rate: 1.98%

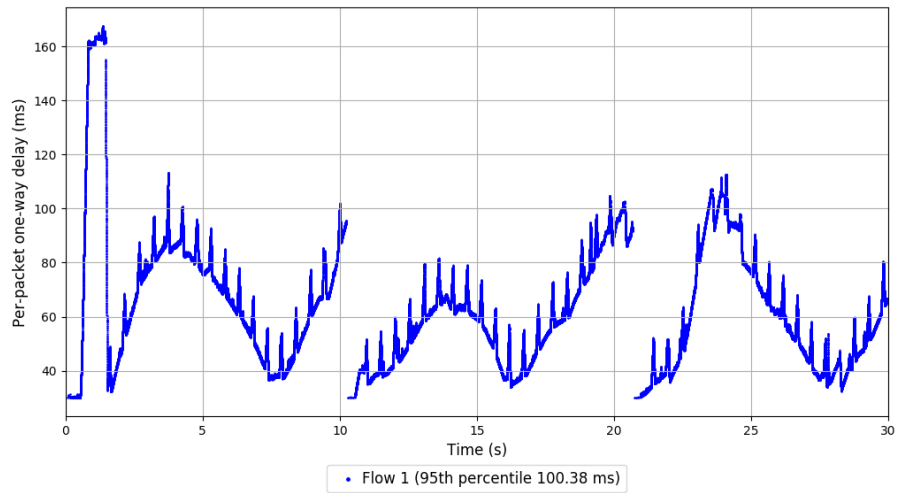
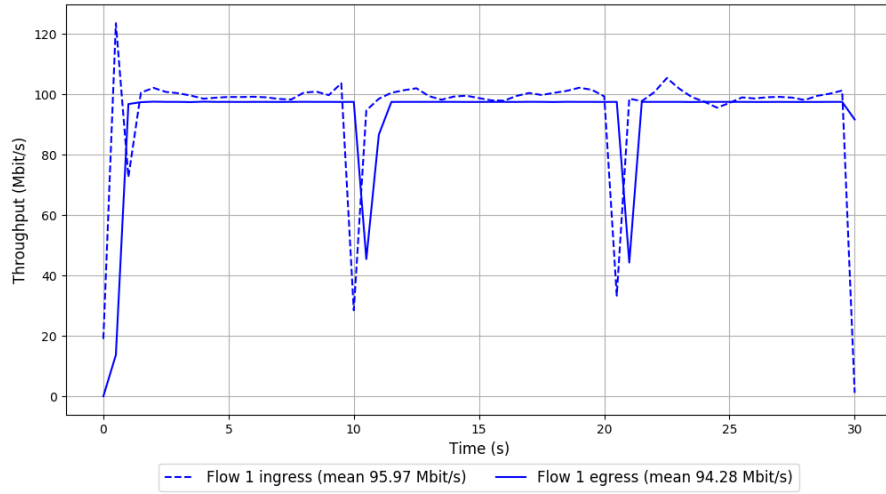
-- Flow 1:

Average throughput: 94.28 Mbit/s

95th percentile per-packet one-way delay: 100.378 ms

Loss rate: 1.98%

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



Run 4: Statistics of TCP BBR

Start at: 2019-09-18 18:45:16

End at: 2019-09-18 18:45:46

Local clock offset: -2.124 ms

Remote clock offset: 9.191 ms

# Below is generated by plot.py at 2019-09-18 20:27:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.07 Mbit/s

95th percentile per-packet one-way delay: 113.921 ms

Loss rate: 2.42%

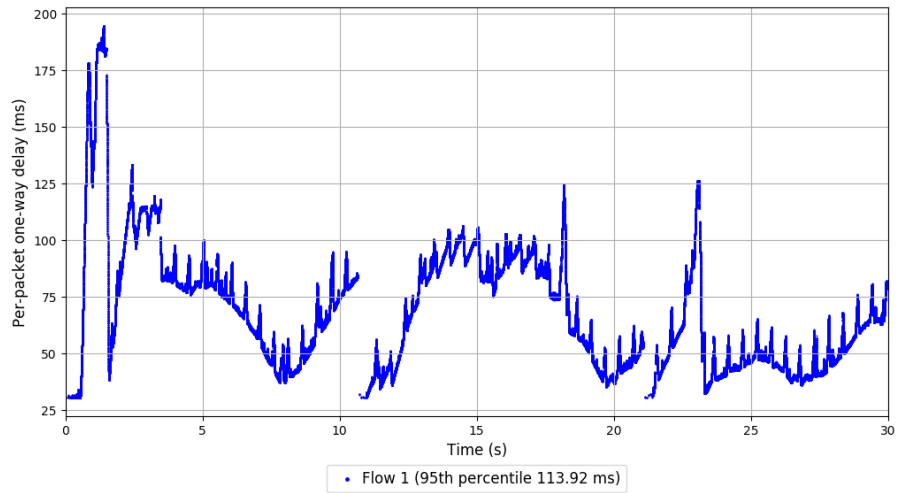
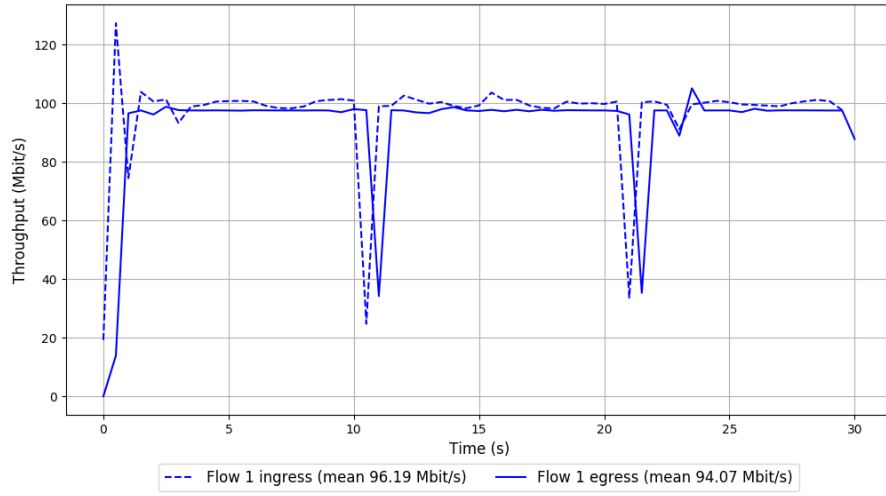
-- Flow 1:

Average throughput: 94.07 Mbit/s

95th percentile per-packet one-way delay: 113.921 ms

Loss rate: 2.42%

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





Run 5: Statistics of TCP BBR

Start at: 2019-09-18 19:52:40

End at: 2019-09-18 19:53:10

Local clock offset: 0.44 ms

Remote clock offset: 8.795 ms

# Below is generated by plot.py at 2019-09-18 20:27:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.66 Mbit/s

95th percentile per-packet one-way delay: 134.480 ms

Loss rate: 3.20%

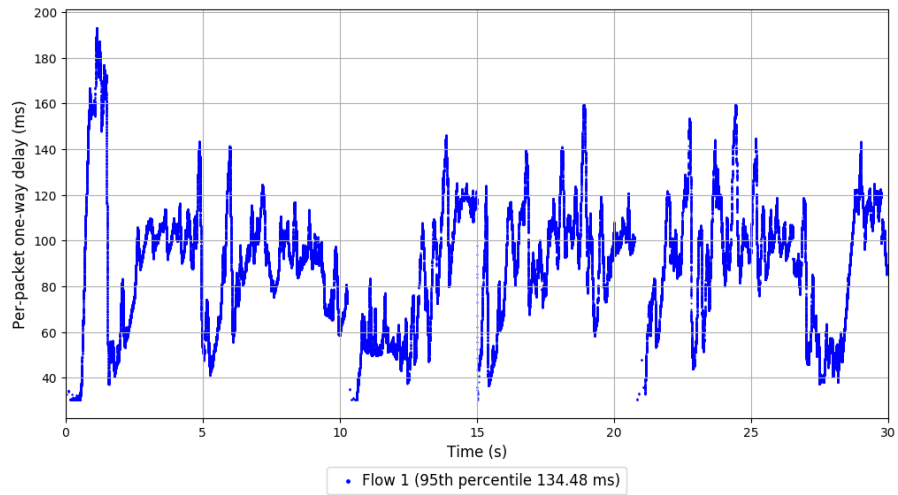
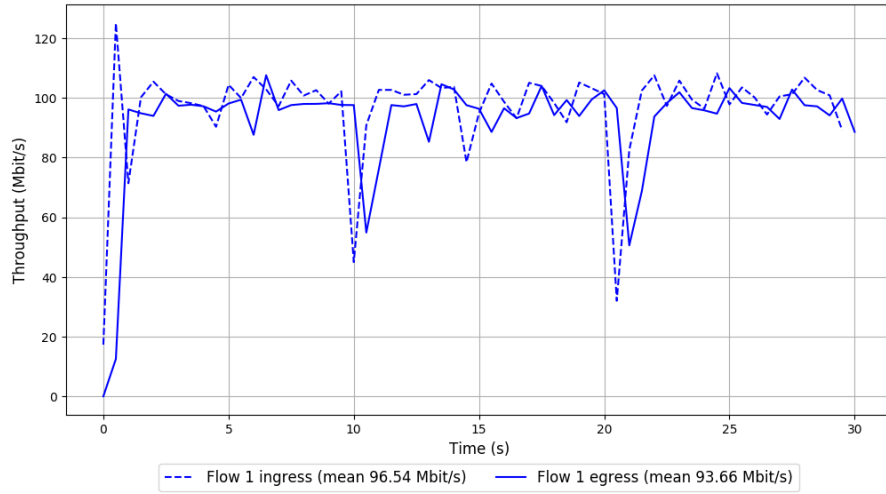
-- Flow 1:

Average throughput: 93.66 Mbit/s

95th percentile per-packet one-way delay: 134.480 ms

Loss rate: 3.20%

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



Run 1: Statistics of Copa

Start at: 2019-09-18 15:40:07

End at: 2019-09-18 15:40:37

Local clock offset: 1.556 ms

Remote clock offset: 7.611 ms

# Below is generated by plot.py at 2019-09-18 20:28:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 82.69 Mbit/s

95th percentile per-packet one-way delay: 60.590 ms

Loss rate: 0.16%

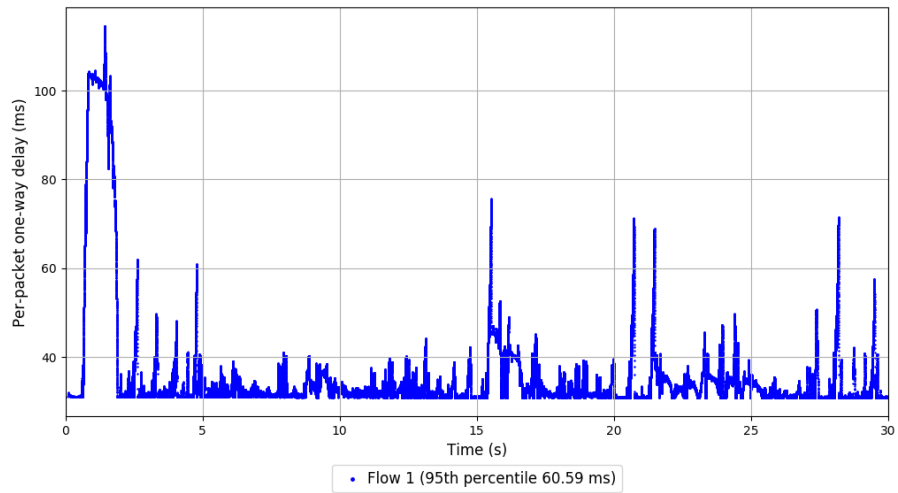
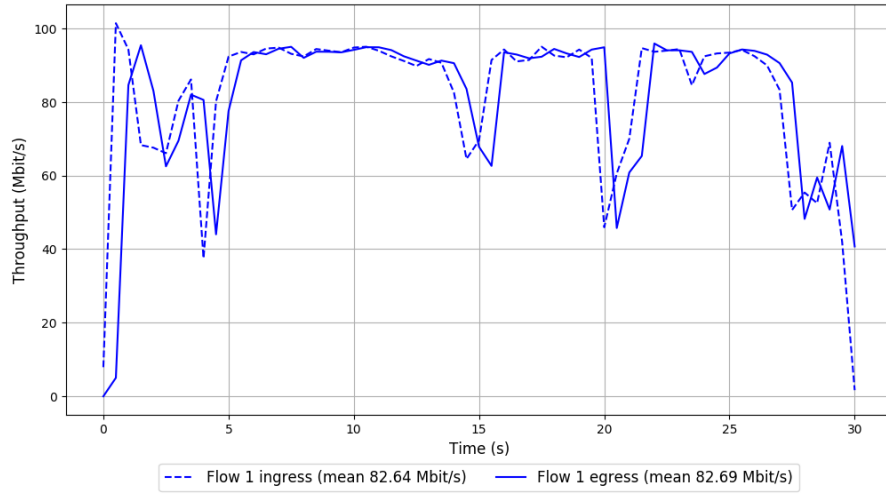
-- Flow 1:

Average throughput: 82.69 Mbit/s

95th percentile per-packet one-way delay: 60.590 ms

Loss rate: 0.16%

### Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-09-18 16:33:52

End at: 2019-09-18 16:34:22

Local clock offset: 0.229 ms

Remote clock offset: 8.2 ms

# Below is generated by plot.py at 2019-09-18 20:28:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.69 Mbit/s

95th percentile per-packet one-way delay: 46.790 ms

Loss rate: 0.11%

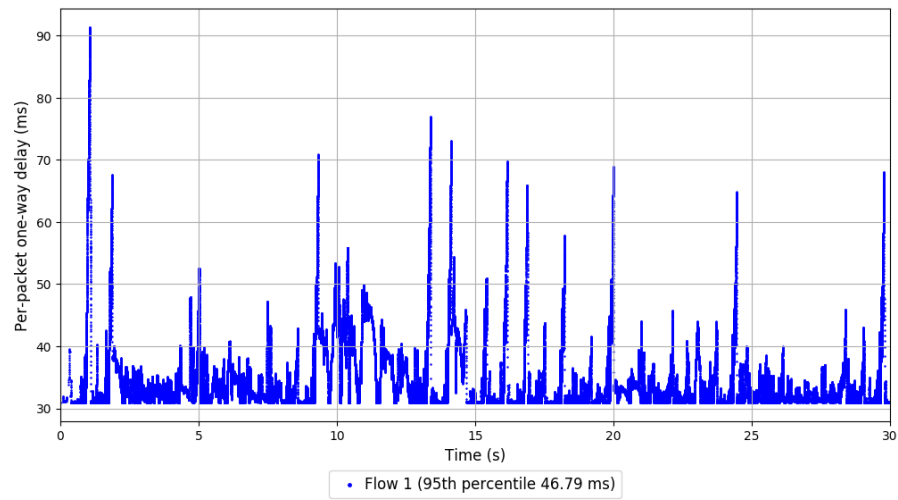
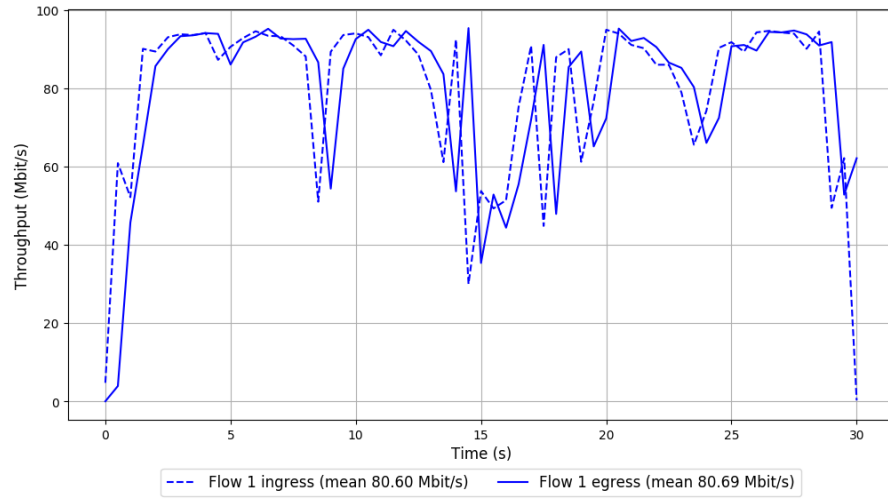
-- Flow 1:

Average throughput: 80.69 Mbit/s

95th percentile per-packet one-way delay: 46.790 ms

Loss rate: 0.11%

## Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-09-18 17:19:18

End at: 2019-09-18 17:19:48

Local clock offset: -3.118 ms

Remote clock offset: 9.045 ms

# Below is generated by plot.py at 2019-09-18 20:28:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.89 Mbit/s

95th percentile per-packet one-way delay: 43.766 ms

Loss rate: 0.25%

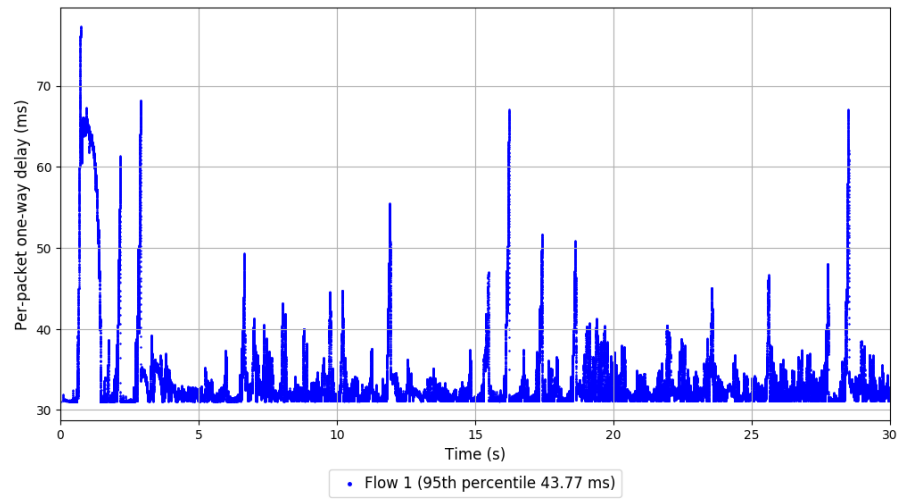
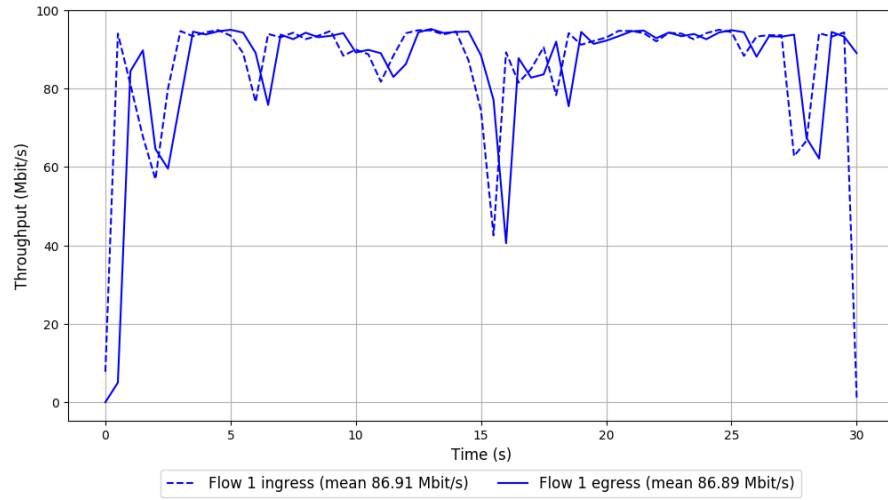
-- Flow 1:

Average throughput: 86.89 Mbit/s

95th percentile per-packet one-way delay: 43.766 ms

Loss rate: 0.25%

### Run 3: Report of Copa — Data Link





Run 4: Statistics of Copa

Start at: 2019-09-18 18:26:16

End at: 2019-09-18 18:26:46

Local clock offset: 1.227 ms

Remote clock offset: 9.11 ms

# Below is generated by plot.py at 2019-09-18 20:29:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 75.53 Mbit/s

95th percentile per-packet one-way delay: 74.231 ms

Loss rate: 0.27%

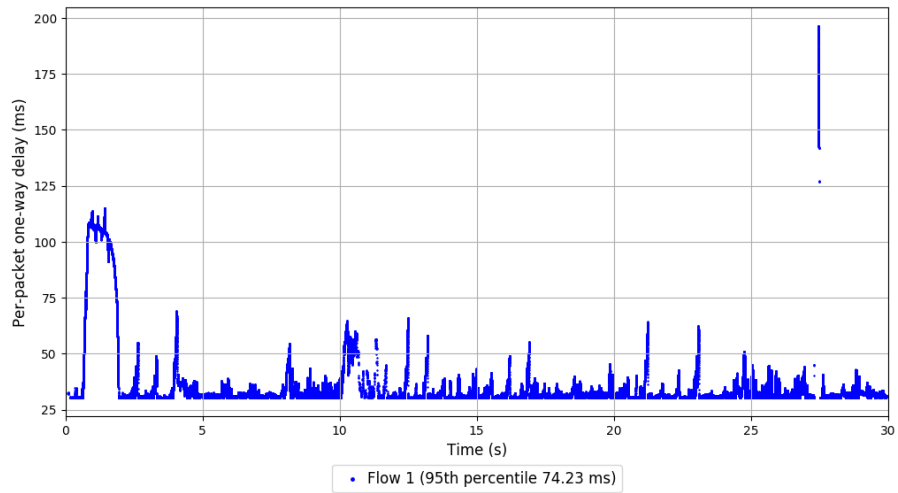
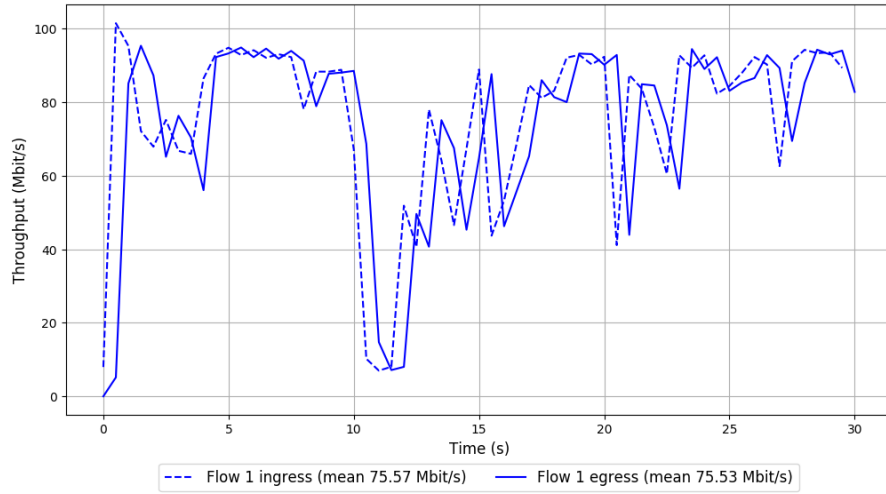
-- Flow 1:

Average throughput: 75.53 Mbit/s

95th percentile per-packet one-way delay: 74.231 ms

Loss rate: 0.27%

### Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-09-18 19:29:07

End at: 2019-09-18 19:29:37

Local clock offset: 0.131 ms

Remote clock offset: 8.045 ms

# Below is generated by plot.py at 2019-09-18 20:29:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.68 Mbit/s

95th percentile per-packet one-way delay: 38.777 ms

Loss rate: 0.23%

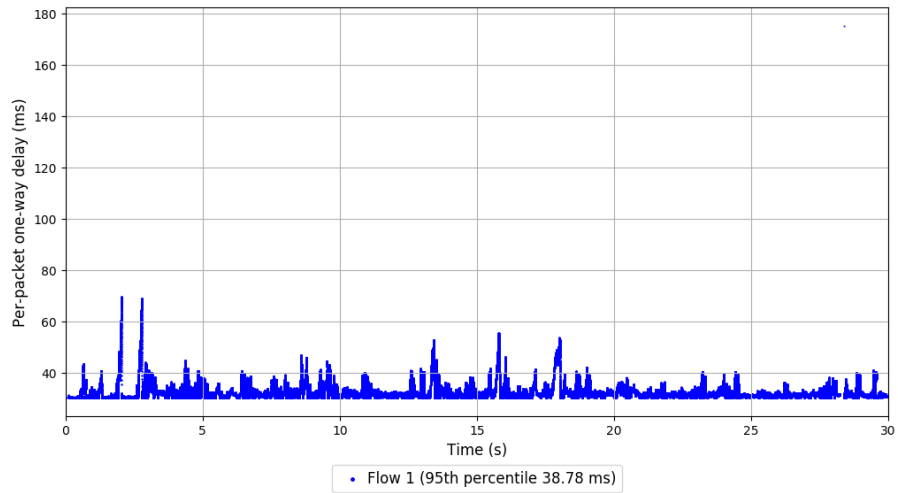
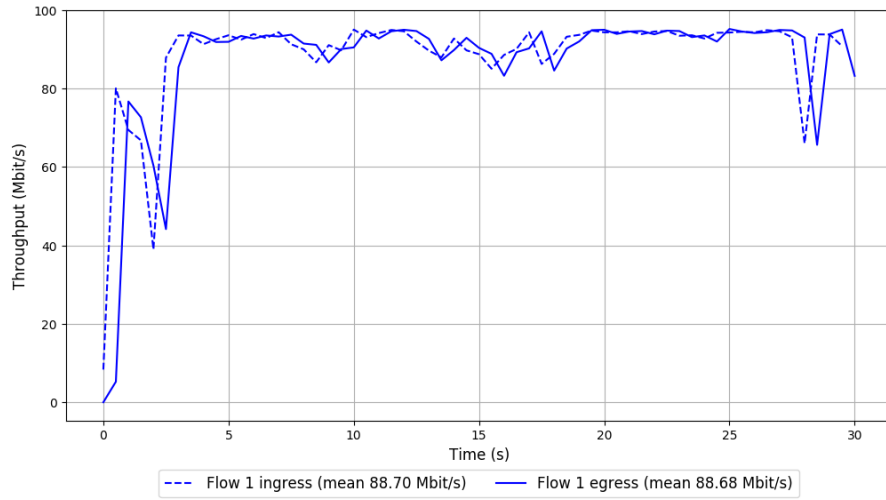
-- Flow 1:

Average throughput: 88.68 Mbit/s

95th percentile per-packet one-way delay: 38.777 ms

Loss rate: 0.23%

### Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-09-18 16:11:23

End at: 2019-09-18 16:11:53

Local clock offset: 1.52 ms

Remote clock offset: 7.8 ms

# Below is generated by plot.py at 2019-09-18 20:29:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.77 Mbit/s

95th percentile per-packet one-way delay: 38.249 ms

Loss rate: 0.27%

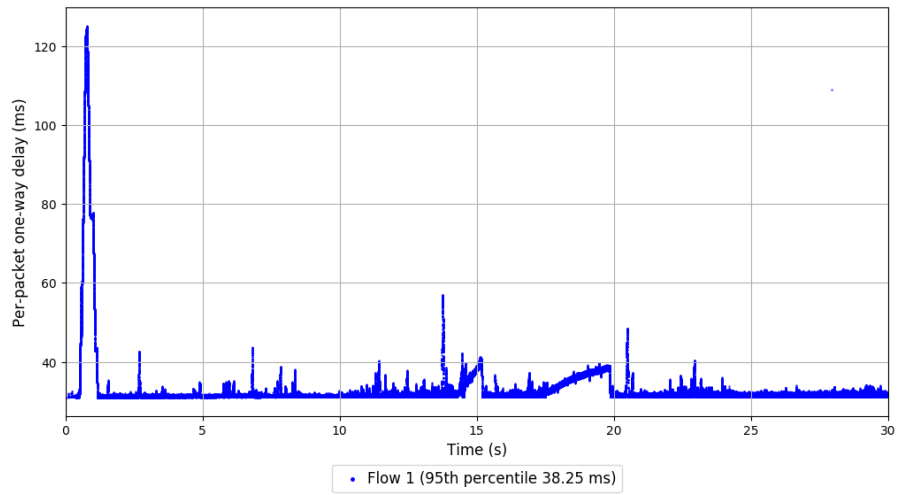
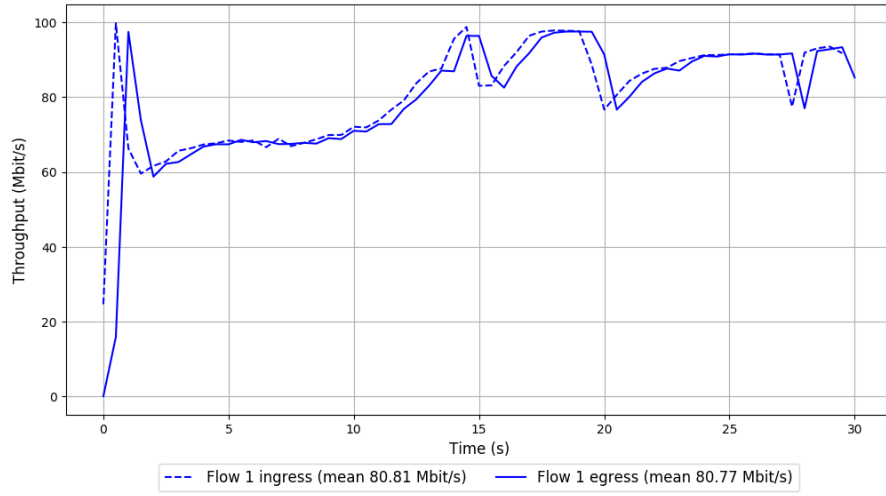
-- Flow 1:

Average throughput: 80.77 Mbit/s

95th percentile per-packet one-way delay: 38.249 ms

Loss rate: 0.27%

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



Run 2: Statistics of TCP Cubic

Start at: 2019-09-18 16:56:27

End at: 2019-09-18 16:56:57

Local clock offset: 0.17 ms

Remote clock offset: 8.844 ms

# Below is generated by plot.py at 2019-09-18 20:29:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.79 Mbit/s

95th percentile per-packet one-way delay: 38.515 ms

Loss rate: 0.26%

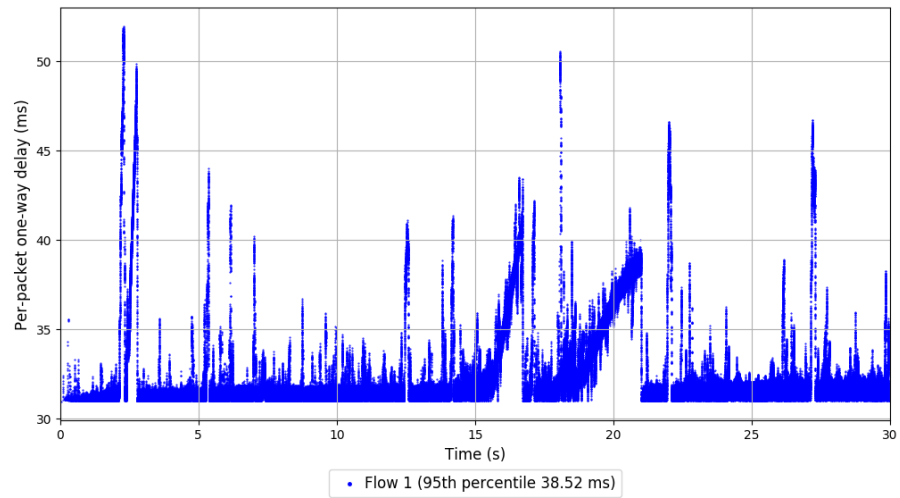
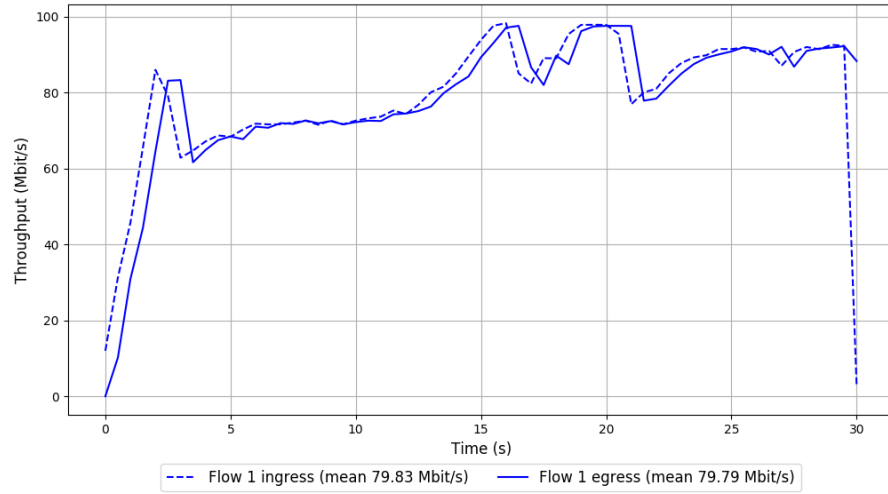
-- Flow 1:

Average throughput: 79.79 Mbit/s

95th percentile per-packet one-way delay: 38.515 ms

Loss rate: 0.26%

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





Run 3: Statistics of TCP Cubic

Start at: 2019-09-18 17:47:15

End at: 2019-09-18 17:47:45

Local clock offset: -3.211 ms

Remote clock offset: 9.247 ms

# Below is generated by plot.py at 2019-09-18 20:29:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.56 Mbit/s

95th percentile per-packet one-way delay: 38.914 ms

Loss rate: 0.20%

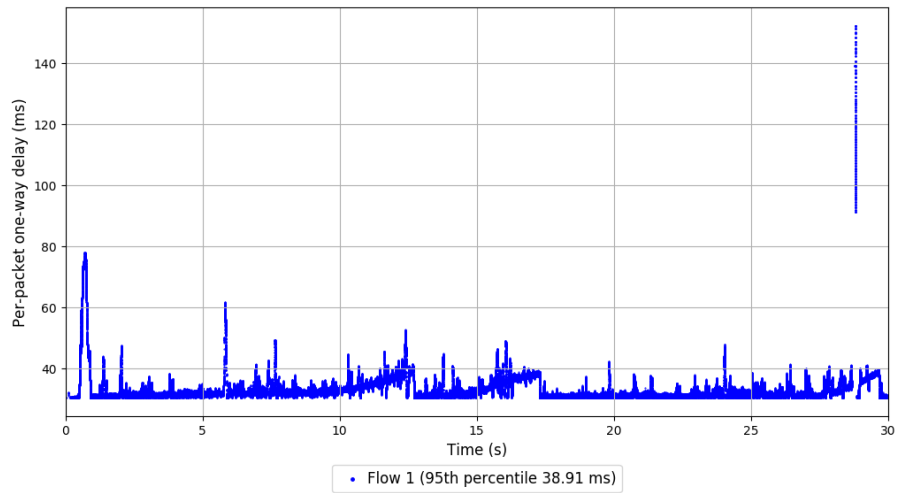
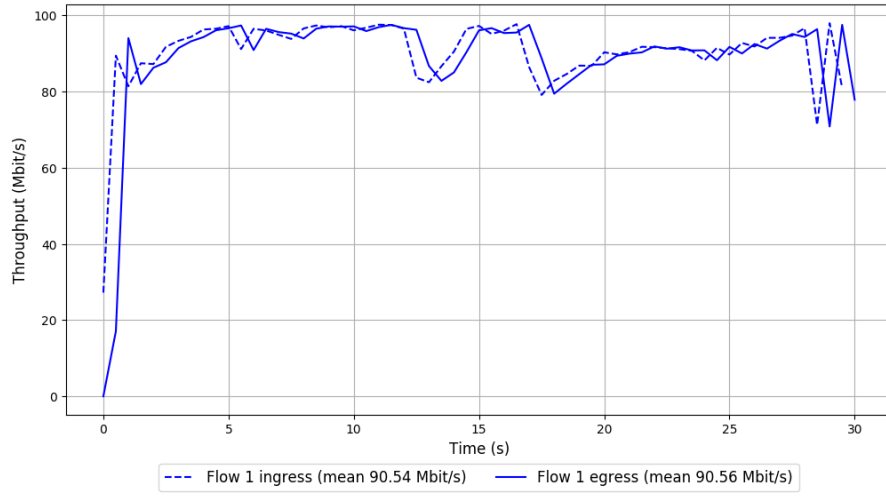
-- Flow 1:

Average throughput: 90.56 Mbit/s

95th percentile per-packet one-way delay: 38.914 ms

Loss rate: 0.20%

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



Run 4: Statistics of TCP Cubic

Start at: 2019-09-18 18:56:36

End at: 2019-09-18 18:57:06

Local clock offset: -3.129 ms

Remote clock offset: 8.994 ms

# Below is generated by plot.py at 2019-09-18 20:29:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.47 Mbit/s

95th percentile per-packet one-way delay: 37.928 ms

Loss rate: 0.26%

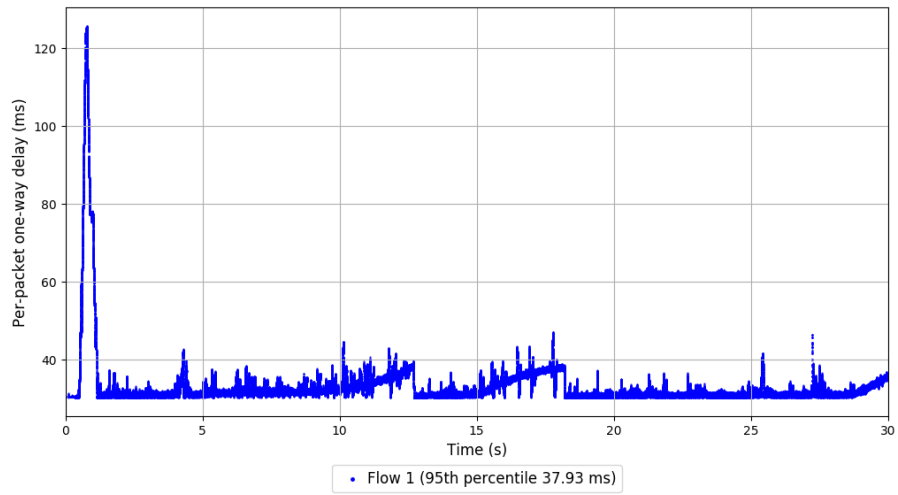
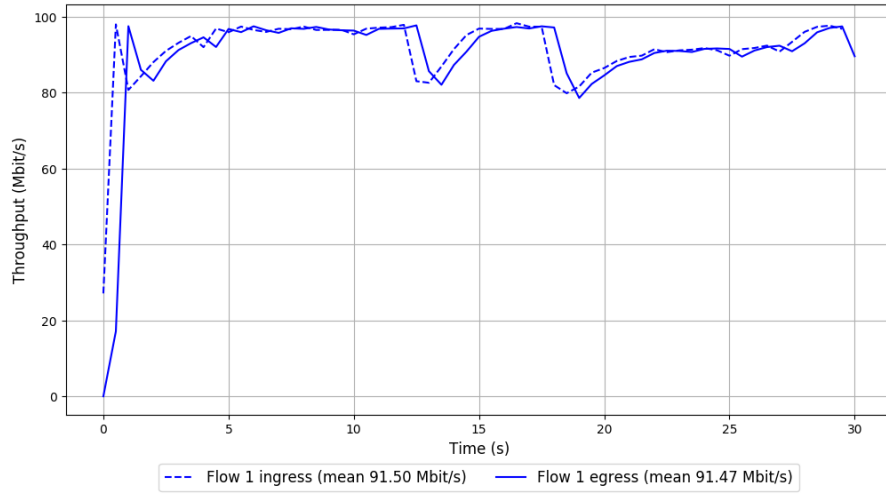
-- Flow 1:

Average throughput: 91.47 Mbit/s

95th percentile per-packet one-way delay: 37.928 ms

Loss rate: 0.26%

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



Run 5: Statistics of TCP Cubic

Start at: 2019-09-18 20:03:44

End at: 2019-09-18 20:04:14

Local clock offset: -0.539 ms

Remote clock offset: 8.902 ms

# Below is generated by plot.py at 2019-09-18 20:29:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 81.35 Mbit/s

95th percentile per-packet one-way delay: 38.557 ms

Loss rate: 0.28%

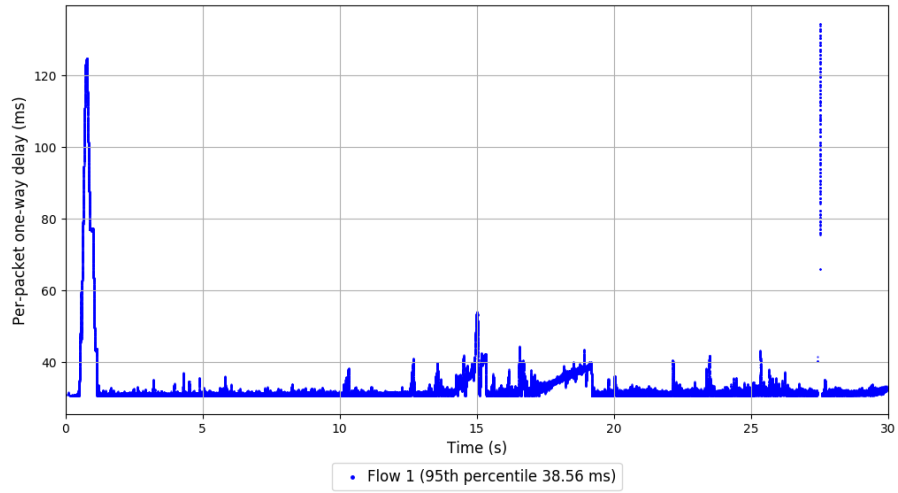
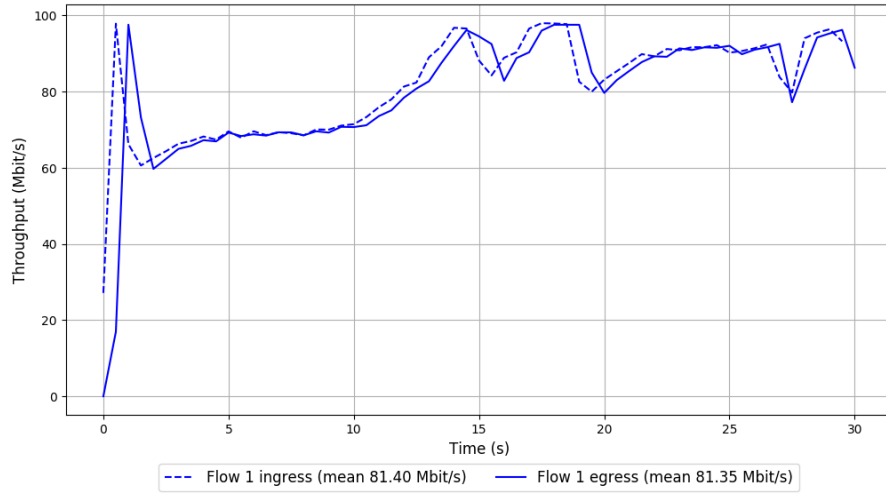
-- Flow 1:

Average throughput: 81.35 Mbit/s

95th percentile per-packet one-way delay: 38.557 ms

Loss rate: 0.28%

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



Run 1: Statistics of FillP

Start at: 2019-09-18 16:16:41

End at: 2019-09-18 16:17:11

Local clock offset: 0.85 ms

Remote clock offset: 7.856 ms

# Below is generated by plot.py at 2019-09-18 20:30:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.77 Mbit/s

95th percentile per-packet one-way delay: 81.407 ms

Loss rate: 0.97%

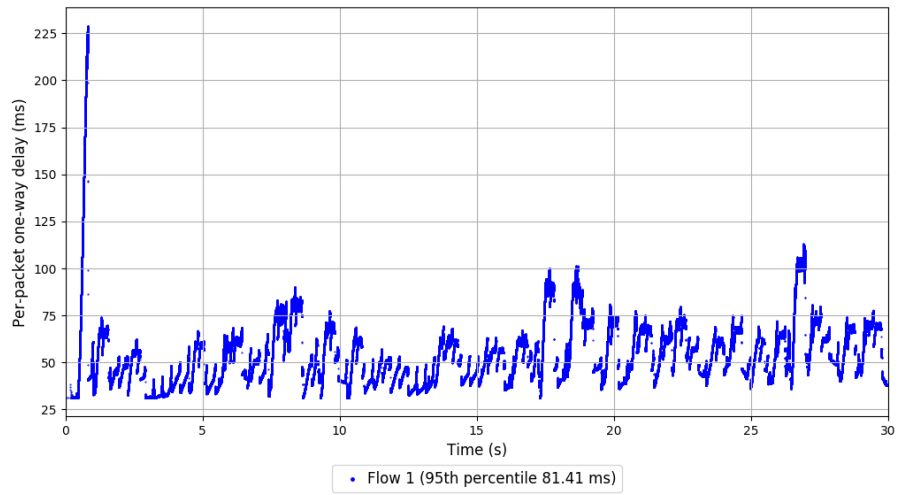
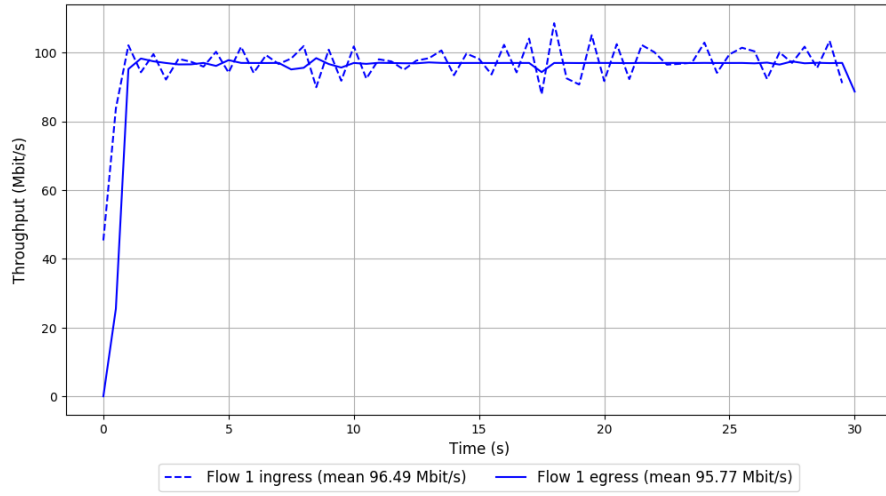
-- Flow 1:

Average throughput: 95.77 Mbit/s

95th percentile per-packet one-way delay: 81.407 ms

Loss rate: 0.97%

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





Run 2: Statistics of FillP

Start at: 2019-09-18 17:01:45

End at: 2019-09-18 17:02:16

Local clock offset: -0.227 ms

Remote clock offset: 9.042 ms

# Below is generated by plot.py at 2019-09-18 20:30:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.77 Mbit/s

95th percentile per-packet one-way delay: 68.342 ms

Loss rate: 0.50%

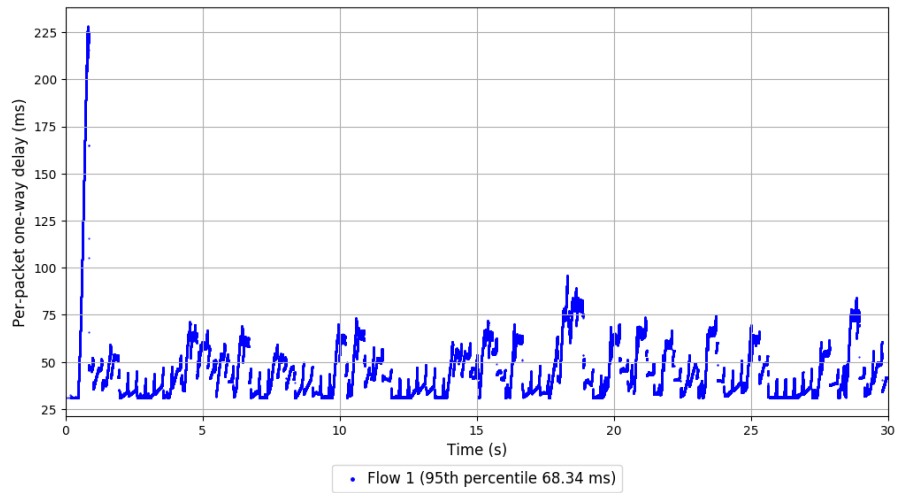
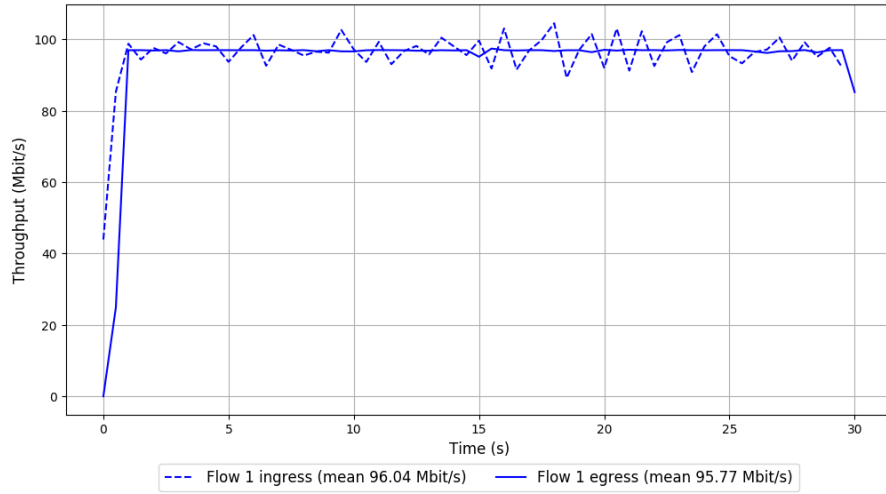
-- Flow 1:

Average throughput: 95.77 Mbit/s

95th percentile per-packet one-way delay: 68.342 ms

Loss rate: 0.50%

## Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-09-18 17:58:05

End at: 2019-09-18 17:58:35

Local clock offset: -3.275 ms

Remote clock offset: 9.148 ms

# Below is generated by plot.py at 2019-09-18 20:30:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.87 Mbit/s

95th percentile per-packet one-way delay: 87.108 ms

Loss rate: 1.98%

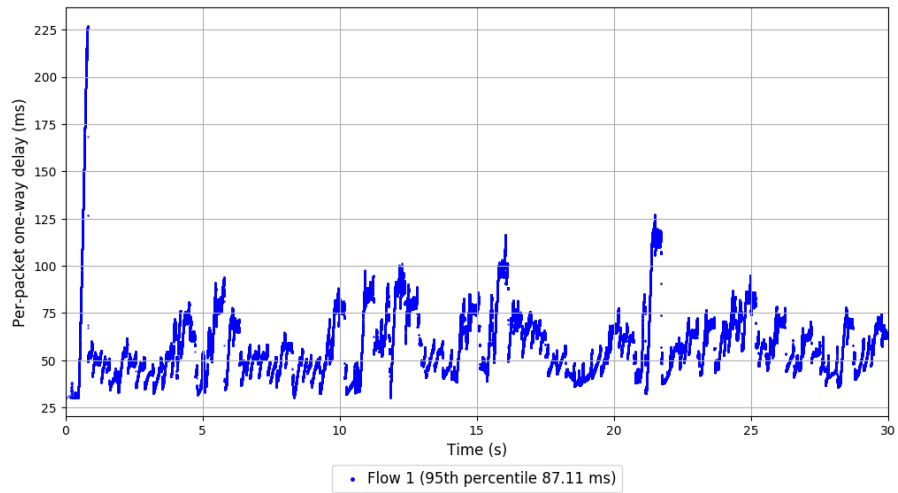
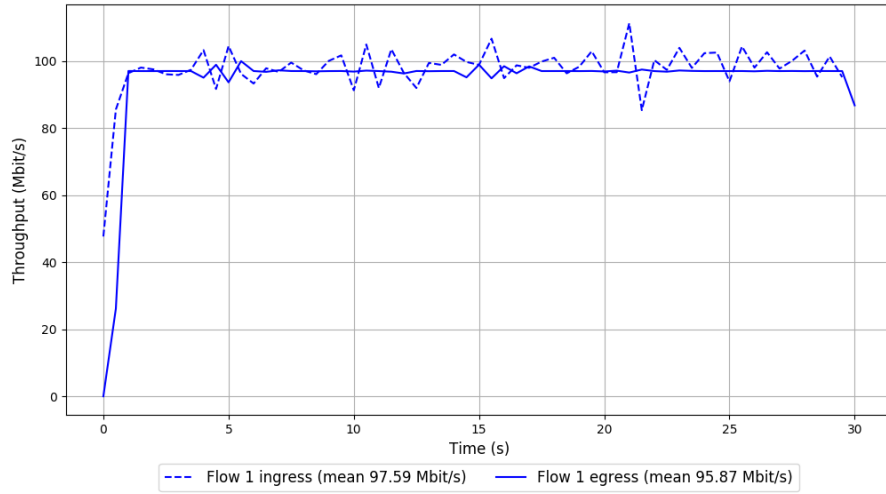
-- Flow 1:

Average throughput: 95.87 Mbit/s

95th percentile per-packet one-way delay: 87.108 ms

Loss rate: 1.98%

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



Run 4: Statistics of FillP

Start at: 2019-09-18 19:05:37

End at: 2019-09-18 19:06:07

Local clock offset: -1.794 ms

Remote clock offset: 8.467 ms

# Below is generated by plot.py at 2019-09-18 20:30:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.68 Mbit/s

95th percentile per-packet one-way delay: 92.099 ms

Loss rate: 1.91%

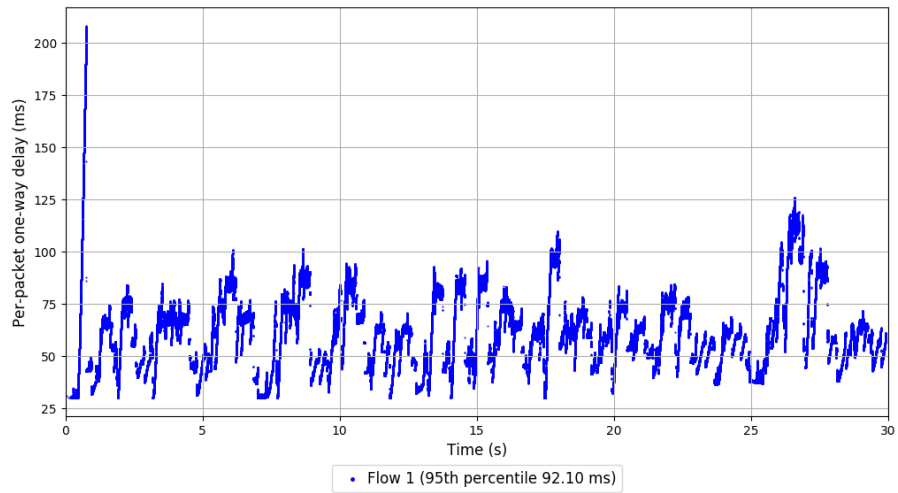
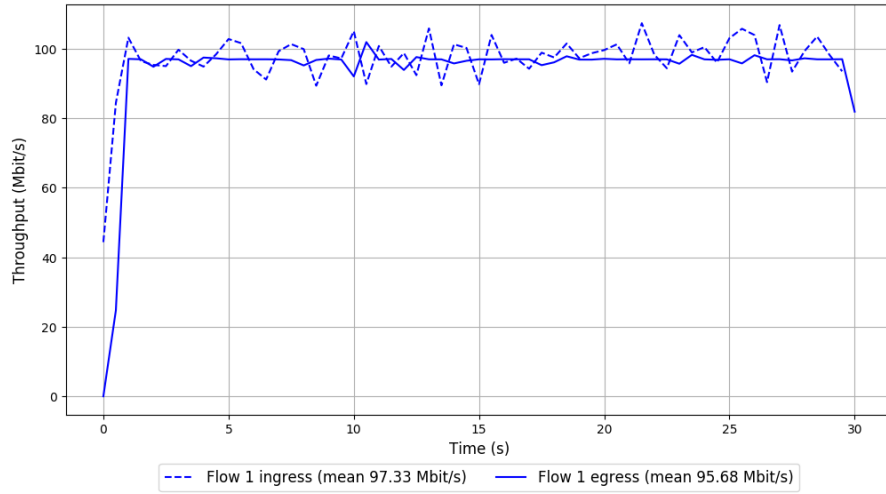
-- Flow 1:

Average throughput: 95.68 Mbit/s

95th percentile per-packet one-way delay: 92.099 ms

Loss rate: 1.91%

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



Run 5: Statistics of FillP

Start at: 2019-09-18 20:13:27

End at: 2019-09-18 20:13:57

Local clock offset: -2.225 ms

Remote clock offset: 9.016 ms

# Below is generated by plot.py at 2019-09-18 20:30:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.74 Mbit/s

95th percentile per-packet one-way delay: 71.404 ms

Loss rate: 0.58%

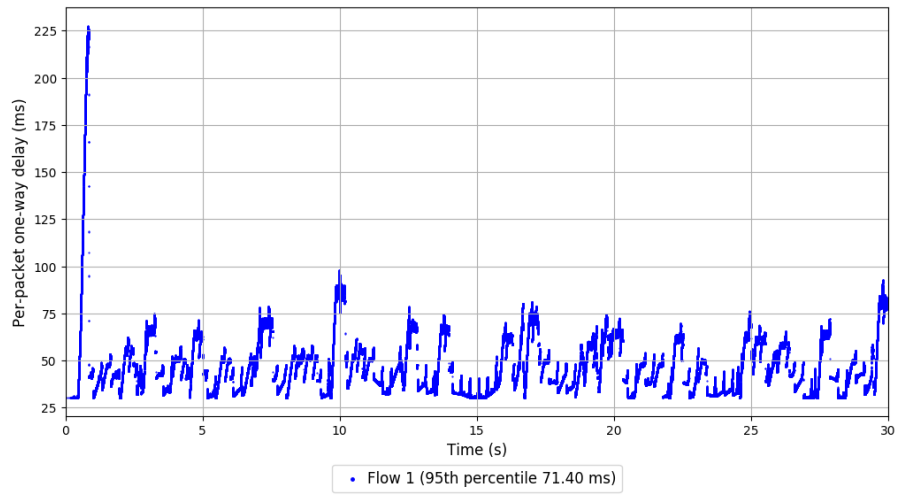
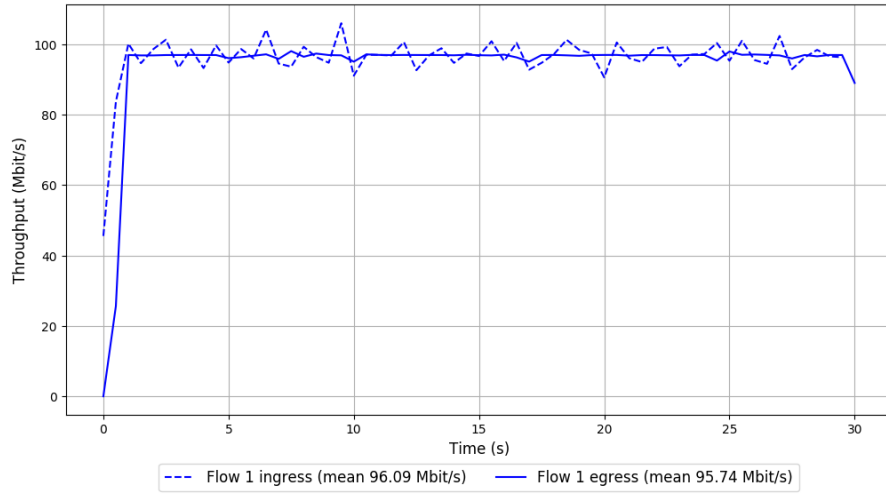
-- Flow 1:

Average throughput: 95.74 Mbit/s

95th percentile per-packet one-way delay: 71.404 ms

Loss rate: 0.58%

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





Run 1: Statistics of FillP-Sheep

Start at: 2019-09-18 16:09:41

End at: 2019-09-18 16:10:11

Local clock offset: 1.805 ms

Remote clock offset: 7.728 ms

# Below is generated by plot.py at 2019-09-18 20:30:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.36 Mbit/s

95th percentile per-packet one-way delay: 49.275 ms

Loss rate: 0.25%

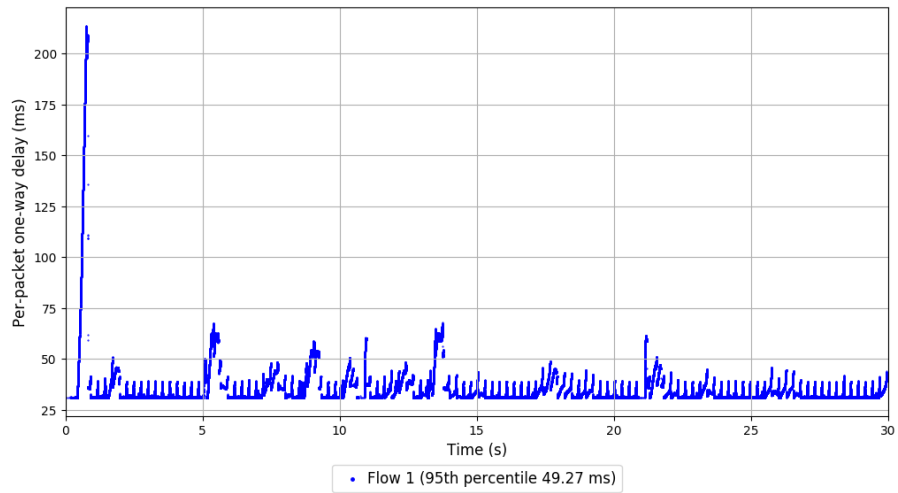
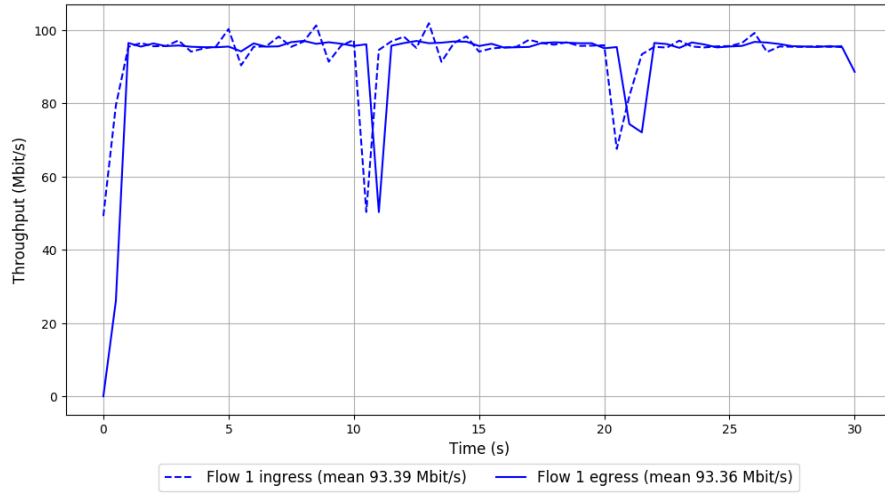
-- Flow 1:

Average throughput: 93.36 Mbit/s

95th percentile per-packet one-way delay: 49.275 ms

Loss rate: 0.25%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-09-18 16:54:46

End at: 2019-09-18 16:55:16

Local clock offset: 0.137 ms

Remote clock offset: 8.809 ms

# Below is generated by plot.py at 2019-09-18 20:30:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.88 Mbit/s

95th percentile per-packet one-way delay: 49.396 ms

Loss rate: 0.26%

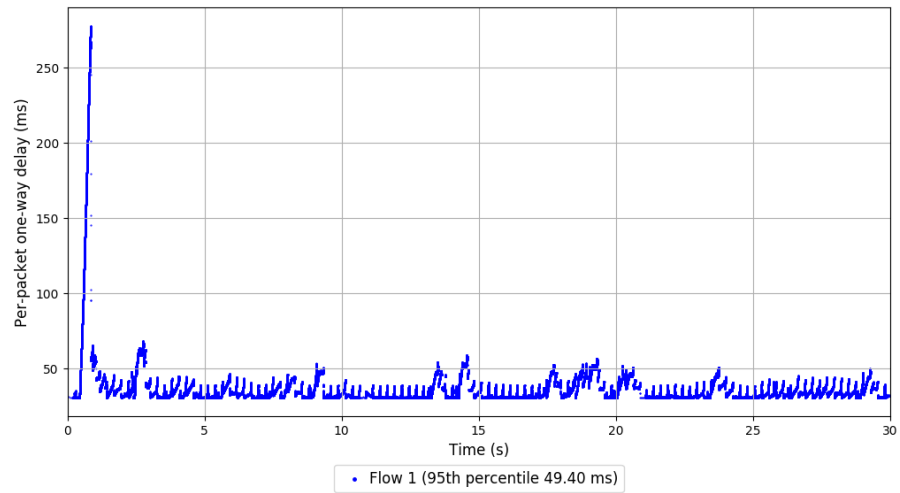
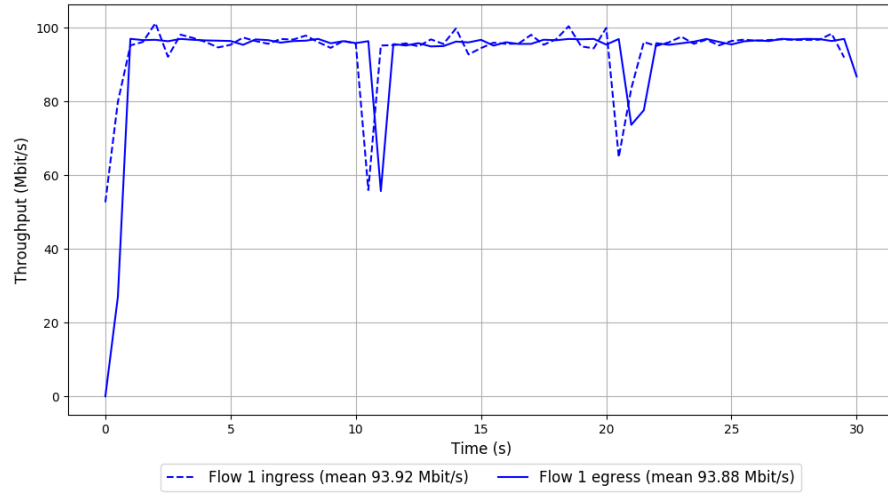
-- Flow 1:

Average throughput: 93.88 Mbit/s

95th percentile per-packet one-way delay: 49.396 ms

Loss rate: 0.26%

## Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-09-18 17:44:28

End at: 2019-09-18 17:44:58

Local clock offset: -3.199 ms

Remote clock offset: 9.251 ms

# Below is generated by plot.py at 2019-09-18 20:31:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.56 Mbit/s

95th percentile per-packet one-way delay: 55.746 ms

Loss rate: 0.27%

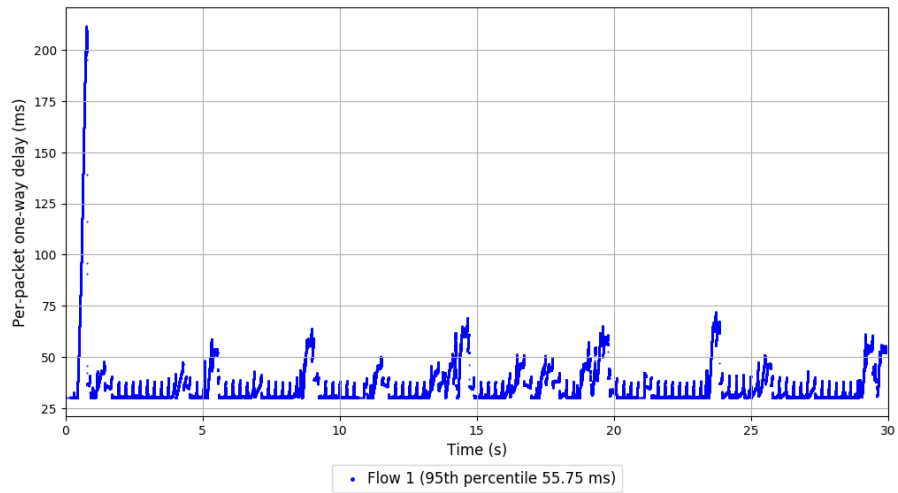
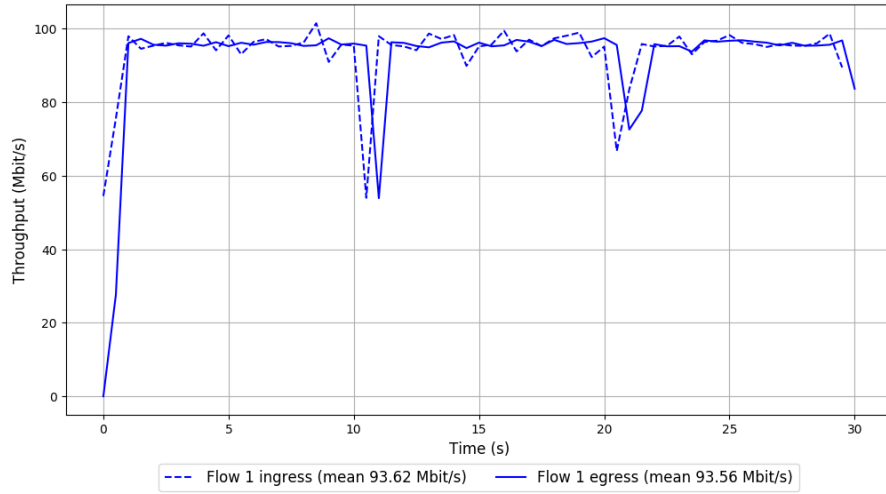
-- Flow 1:

Average throughput: 93.56 Mbit/s

95th percentile per-packet one-way delay: 55.746 ms

Loss rate: 0.27%

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



Run 4: Statistics of FillP-Sheep

Start at: 2019-09-18 18:53:45

End at: 2019-09-18 18:54:15

Local clock offset: -2.879 ms

Remote clock offset: 9.337 ms

# Below is generated by plot.py at 2019-09-18 20:31:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.99 Mbit/s

95th percentile per-packet one-way delay: 57.968 ms

Loss rate: 0.29%

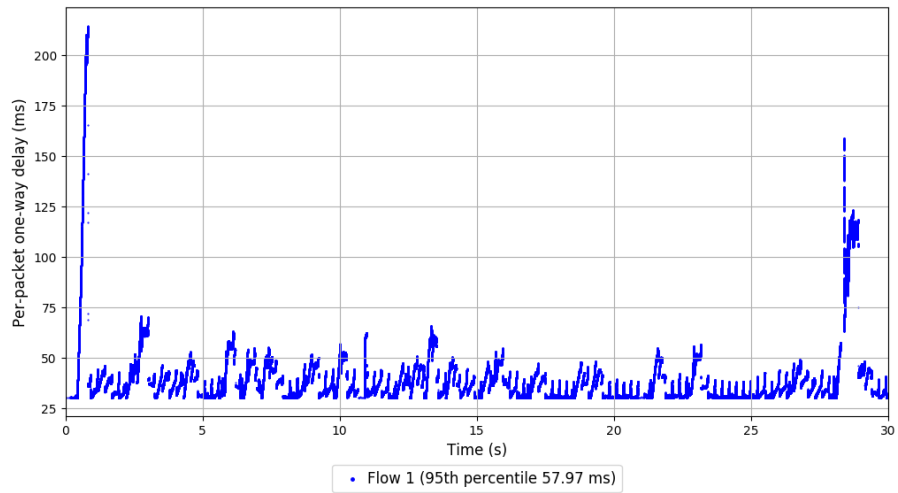
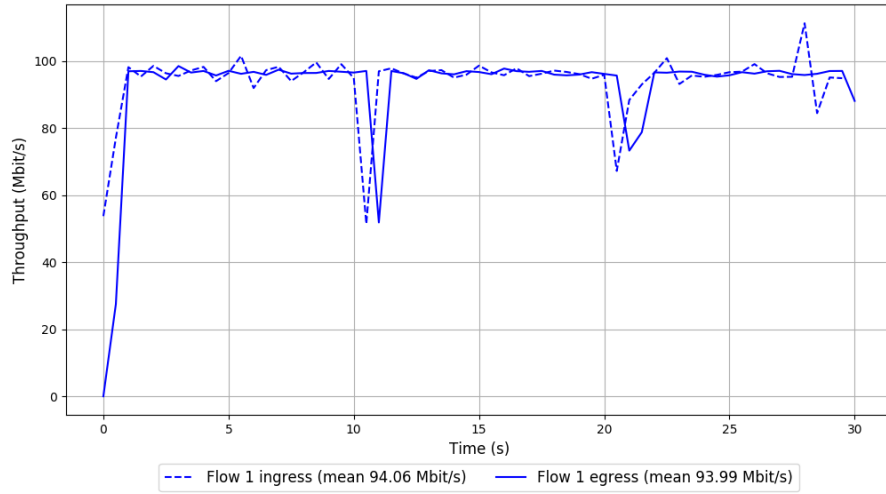
-- Flow 1:

Average throughput: 93.99 Mbit/s

95th percentile per-packet one-way delay: 57.968 ms

Loss rate: 0.29%

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





Run 5: Statistics of FillP-Sheep

Start at: 2019-09-18 20:01:22

End at: 2019-09-18 20:01:52

Local clock offset: 0.209 ms

Remote clock offset: 8.806 ms

# Below is generated by plot.py at 2019-09-18 20:31:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.86 Mbit/s

95th percentile per-packet one-way delay: 57.650 ms

Loss rate: 0.31%

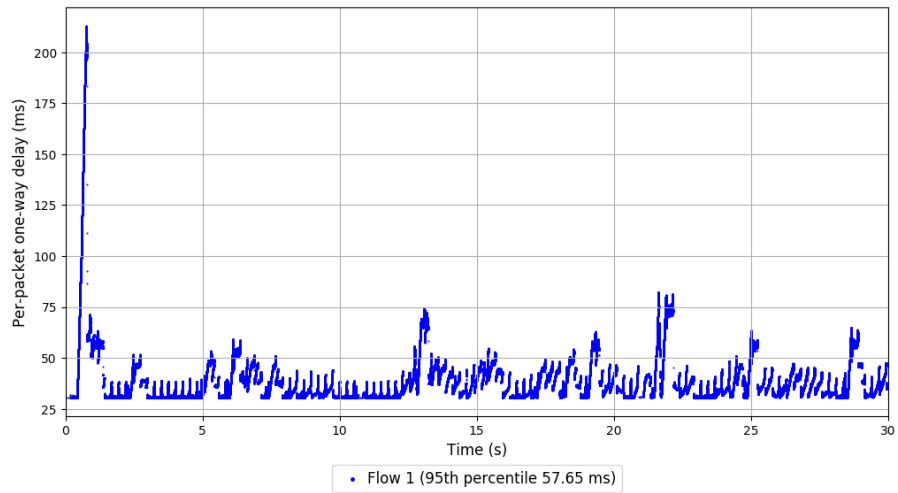
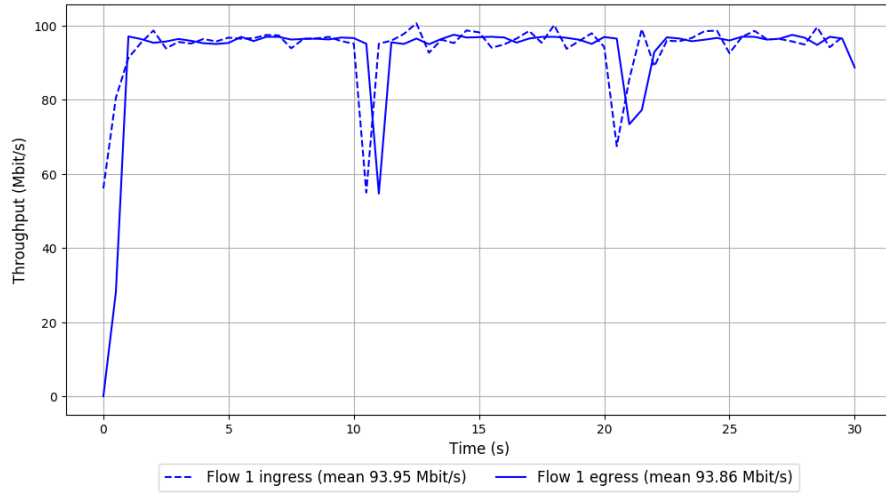
-- Flow 1:

Average throughput: 93.86 Mbit/s

95th percentile per-packet one-way delay: 57.650 ms

Loss rate: 0.31%

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



Run 1: Statistics of Indigo

Start at: 2019-09-18 16:14:42

End at: 2019-09-18 16:15:12

Local clock offset: 1.063 ms

Remote clock offset: 7.915 ms

# Below is generated by plot.py at 2019-09-18 20:31:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.44 Mbit/s

95th percentile per-packet one-way delay: 36.493 ms

Loss rate: 0.23%

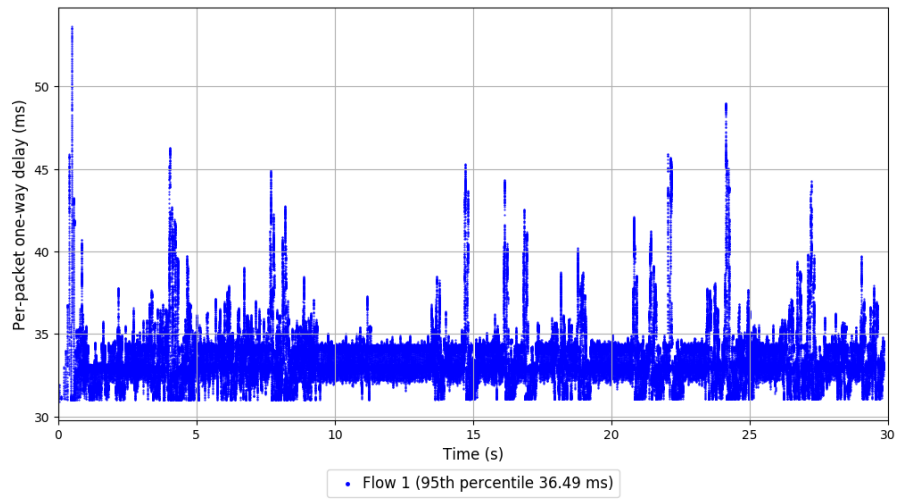
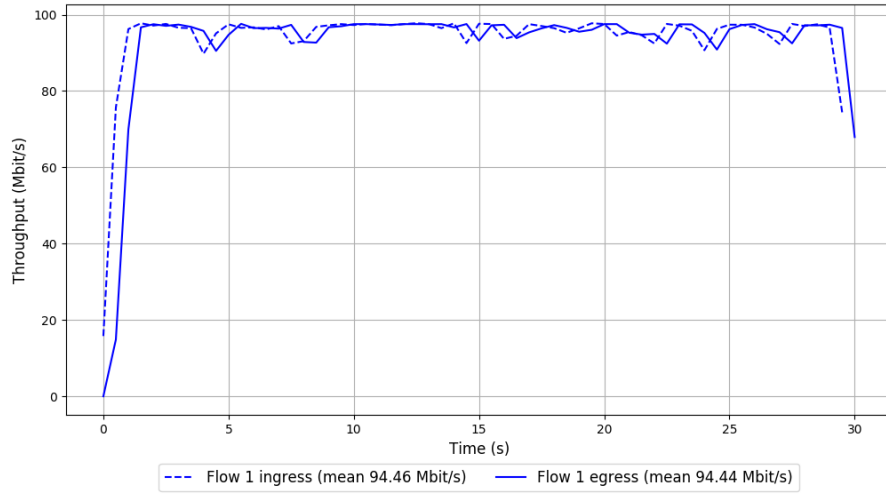
-- Flow 1:

Average throughput: 94.44 Mbit/s

95th percentile per-packet one-way delay: 36.493 ms

Loss rate: 0.23%

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



Run 2: Statistics of Indigo

Start at: 2019-09-18 16:59:49

End at: 2019-09-18 17:00:19

Local clock offset: 0.121 ms

Remote clock offset: 8.912 ms

# Below is generated by plot.py at 2019-09-18 20:31:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.45 Mbit/s

95th percentile per-packet one-way delay: 35.998 ms

Loss rate: 0.24%

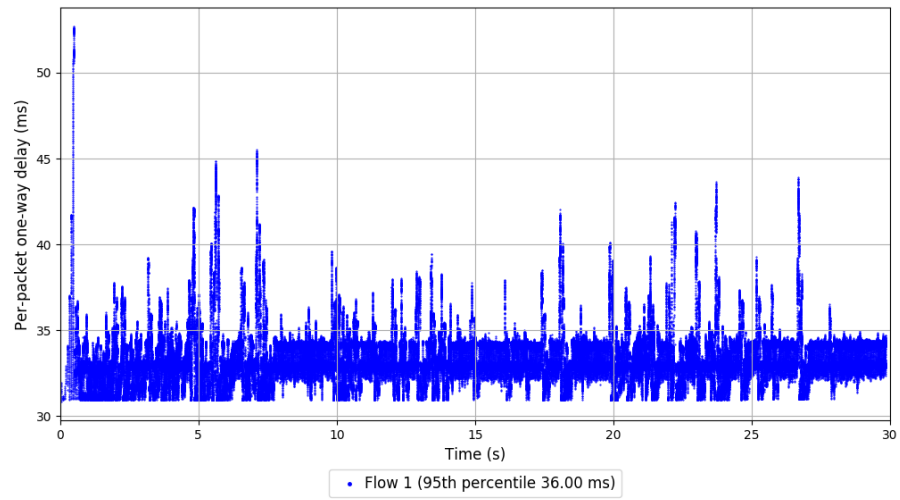
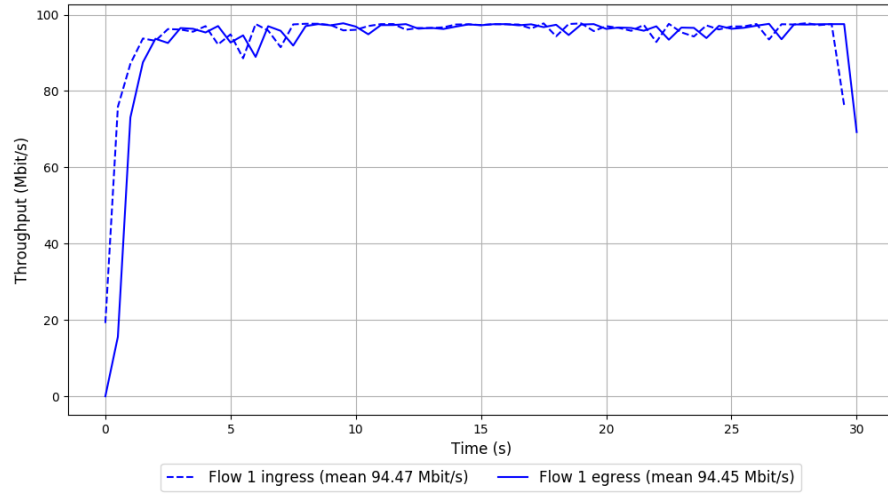
-- Flow 1:

Average throughput: 94.45 Mbit/s

95th percentile per-packet one-way delay: 35.998 ms

Loss rate: 0.24%

## Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-09-18 17:54:52

End at: 2019-09-18 17:55:22

Local clock offset: -3.221 ms

Remote clock offset: 9.219 ms

# Below is generated by plot.py at 2019-09-18 20:31:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.27 Mbit/s

95th percentile per-packet one-way delay: 44.445 ms

Loss rate: 0.21%

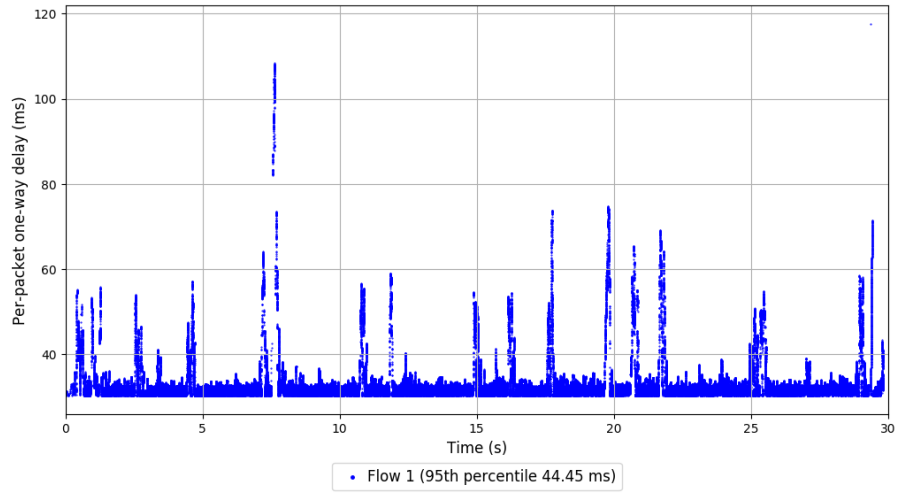
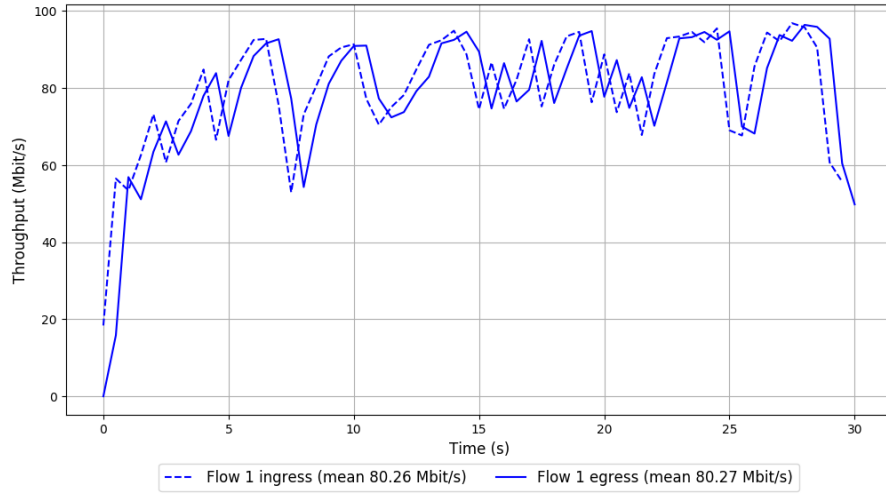
-- Flow 1:

Average throughput: 80.27 Mbit/s

95th percentile per-packet one-way delay: 44.445 ms

Loss rate: 0.21%

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





Run 4: Statistics of Indigo

Start at: 2019-09-18 19:02:06

End at: 2019-09-18 19:02:36

Local clock offset: -2.756 ms

Remote clock offset: 8.631 ms

# Below is generated by plot.py at 2019-09-18 20:32:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.46 Mbit/s

95th percentile per-packet one-way delay: 35.967 ms

Loss rate: 0.23%

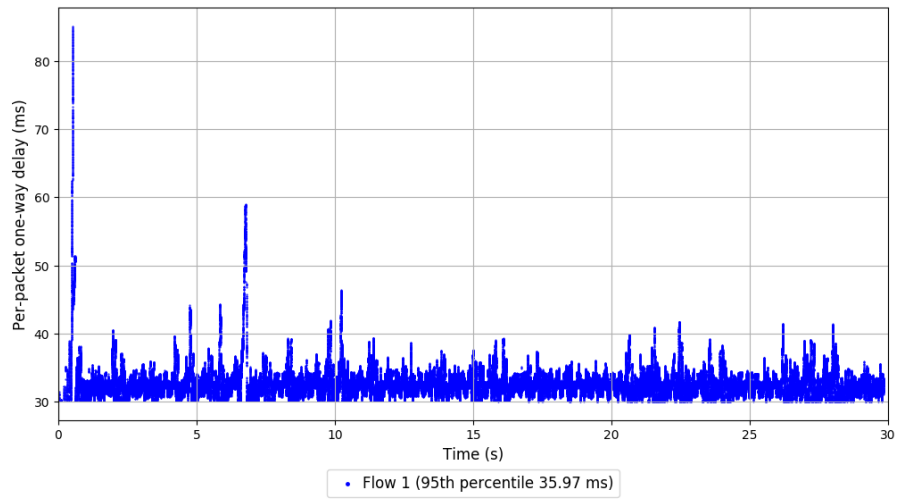
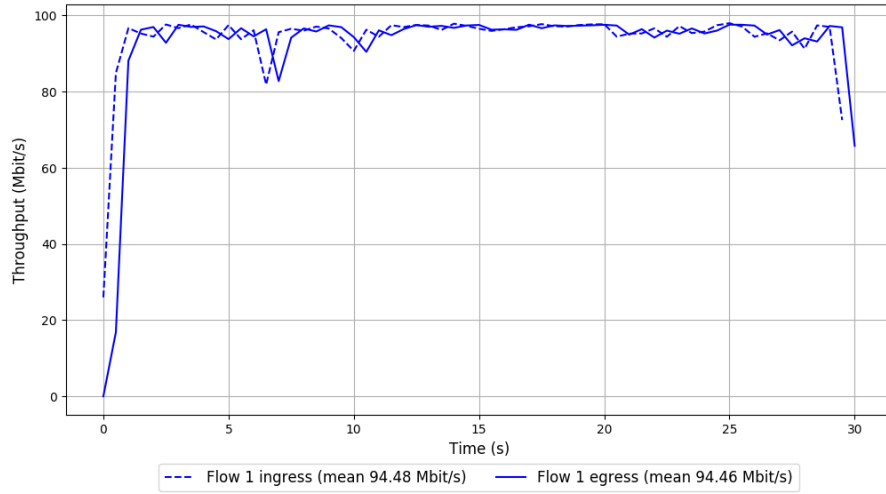
-- Flow 1:

Average throughput: 94.46 Mbit/s

95th percentile per-packet one-way delay: 35.967 ms

Loss rate: 0.23%

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



Run 5: Statistics of Indigo

Start at: 2019-09-18 20:09:37

End at: 2019-09-18 20:10:07

Local clock offset: -1.815 ms

Remote clock offset: 9.149 ms

# Below is generated by plot.py at 2019-09-18 20:32:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.64 Mbit/s

95th percentile per-packet one-way delay: 38.203 ms

Loss rate: 0.20%

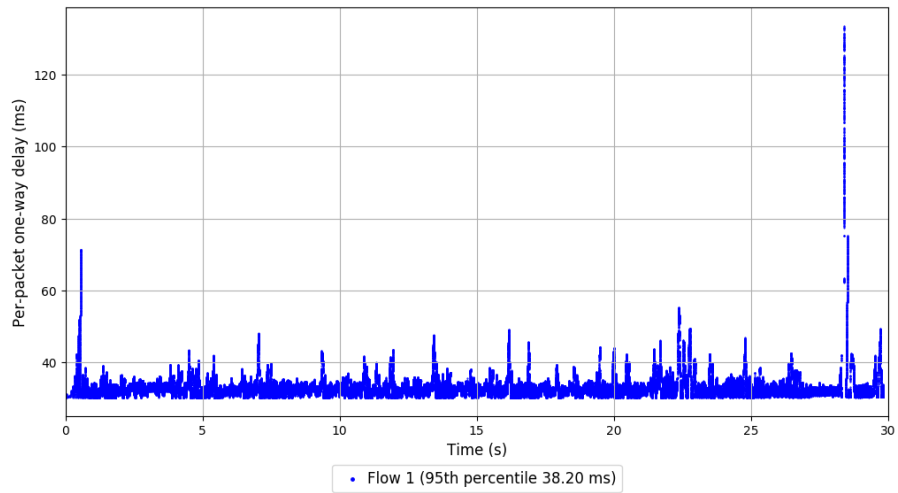
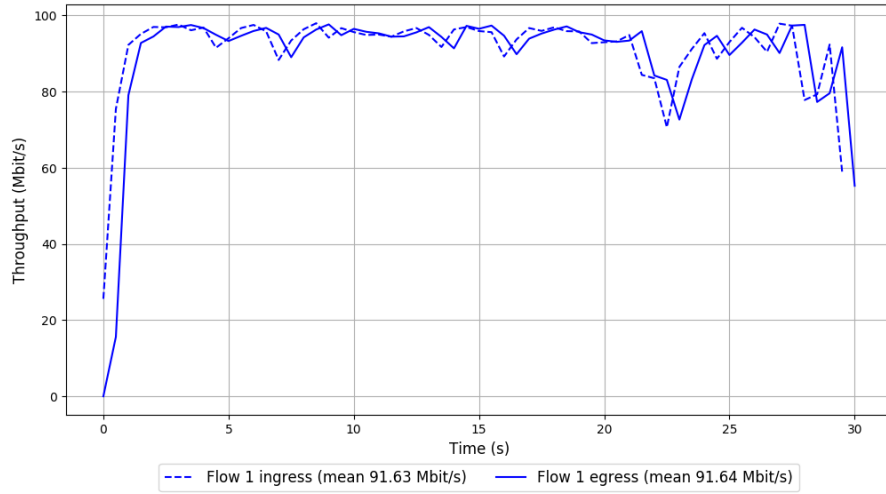
-- Flow 1:

Average throughput: 91.64 Mbit/s

95th percentile per-packet one-way delay: 38.203 ms

Loss rate: 0.20%

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



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-09-18 16:12:56

End at: 2019-09-18 16:13:26

Local clock offset: 1.307 ms

Remote clock offset: 7.789 ms

# Below is generated by plot.py at 2019-09-18 20:32:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 38.578 ms

Loss rate: 0.24%

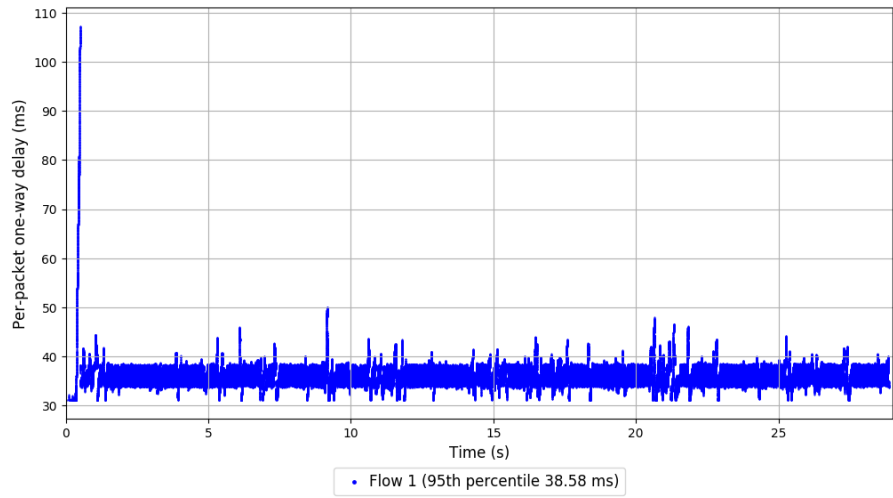
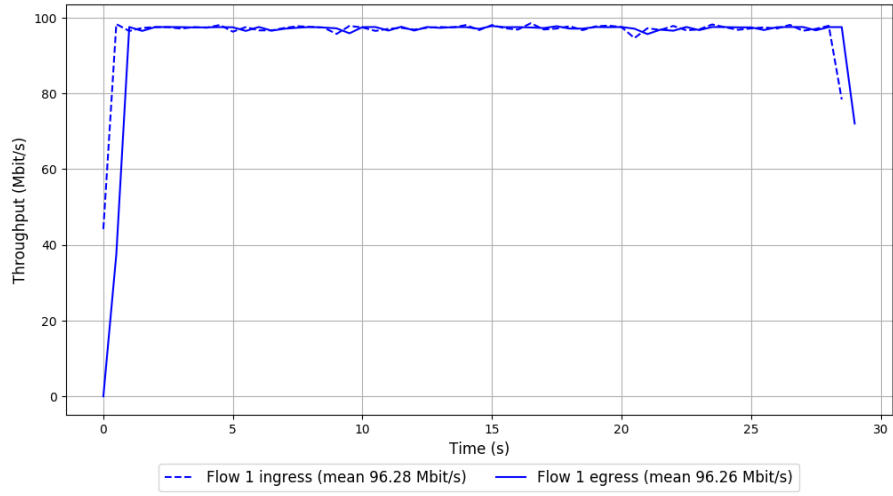
-- Flow 1:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 38.578 ms

Loss rate: 0.24%

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



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-09-18 16:58:11

End at: 2019-09-18 16:58:41

Local clock offset: 0.154 ms

Remote clock offset: 8.903 ms

# Below is generated by plot.py at 2019-09-18 20:32:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.40 Mbit/s

95th percentile per-packet one-way delay: 38.177 ms

Loss rate: 0.25%

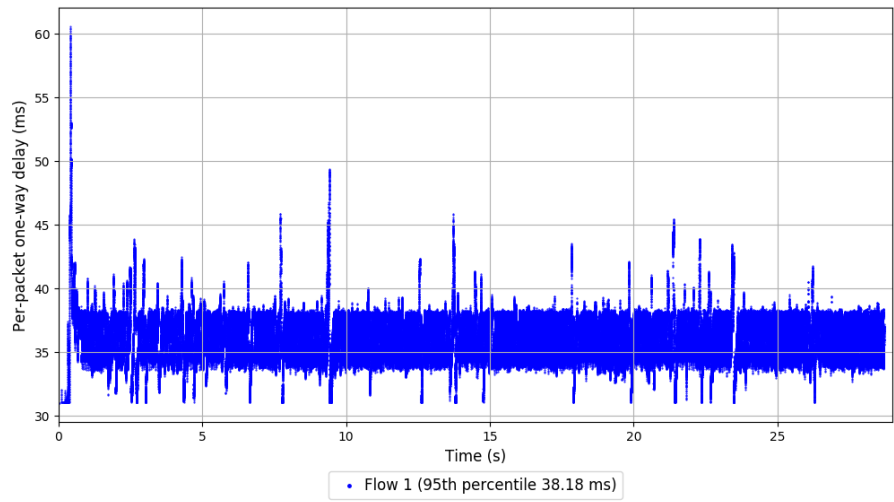
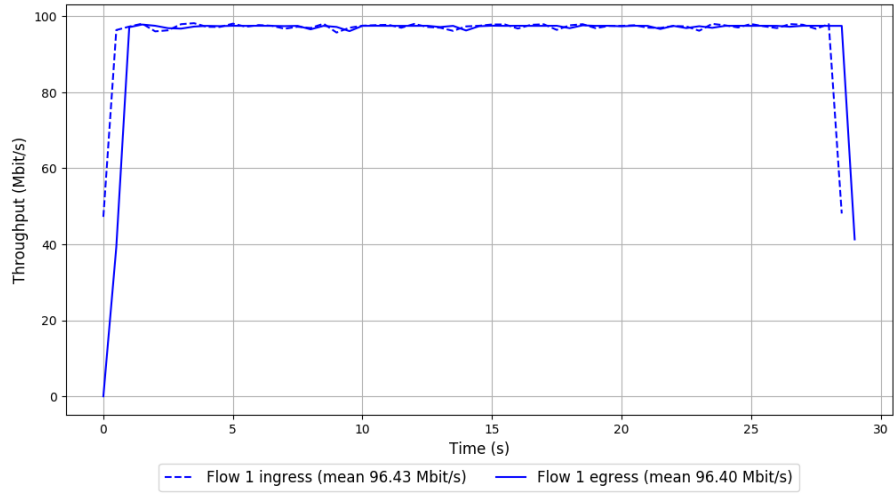
-- Flow 1:

Average throughput: 96.40 Mbit/s

95th percentile per-packet one-way delay: 38.177 ms

Loss rate: 0.25%

## Run 2: Report of Indigo-MusesC3 — Data Link





Run 3: Statistics of Indigo-MusesC3

Start at: 2019-09-18 17:51:29

End at: 2019-09-18 17:51:59

Local clock offset: -3.162 ms

Remote clock offset: 9.231 ms

# Below is generated by plot.py at 2019-09-18 20:32:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.16 Mbit/s

95th percentile per-packet one-way delay: 39.596 ms

Loss rate: 0.24%

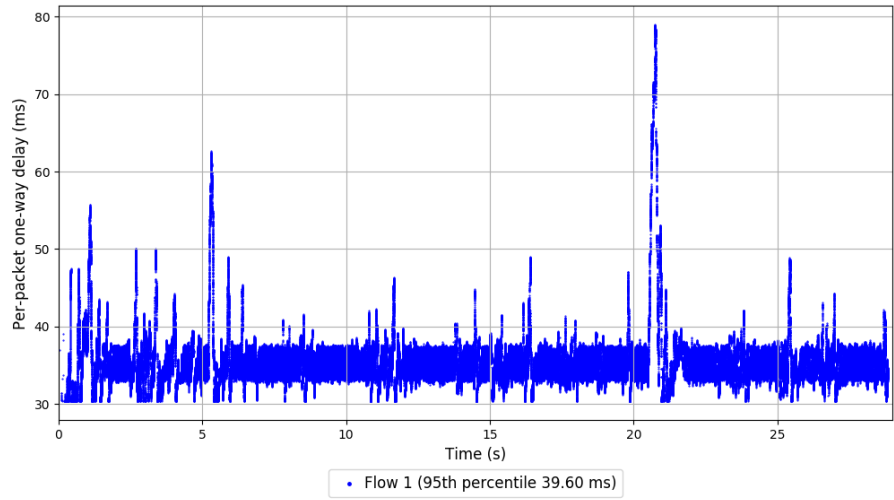
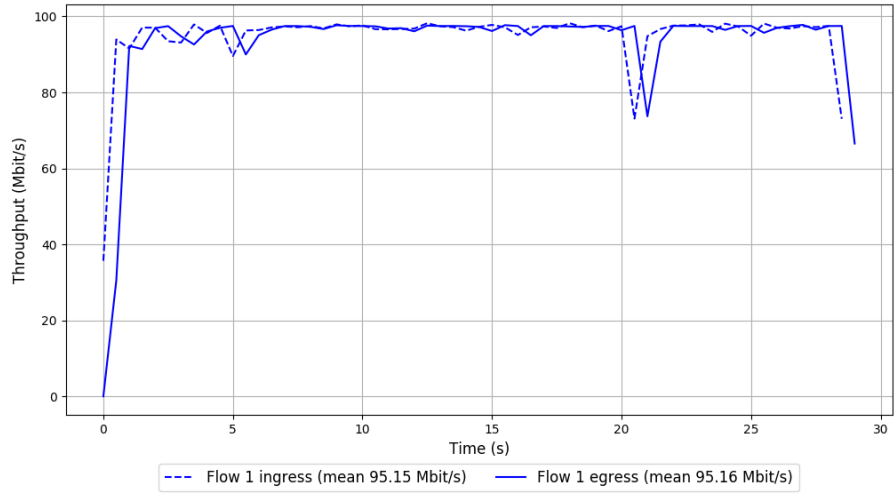
-- Flow 1:

Average throughput: 95.16 Mbit/s

95th percentile per-packet one-way delay: 39.596 ms

Loss rate: 0.24%

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



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-09-18 18:59:32

End at: 2019-09-18 19:00:02

Local clock offset: -3.34 ms

Remote clock offset: 8.818 ms

# Below is generated by plot.py at 2019-09-18 20:32:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.16 Mbit/s

95th percentile per-packet one-way delay: 38.254 ms

Loss rate: 0.25%

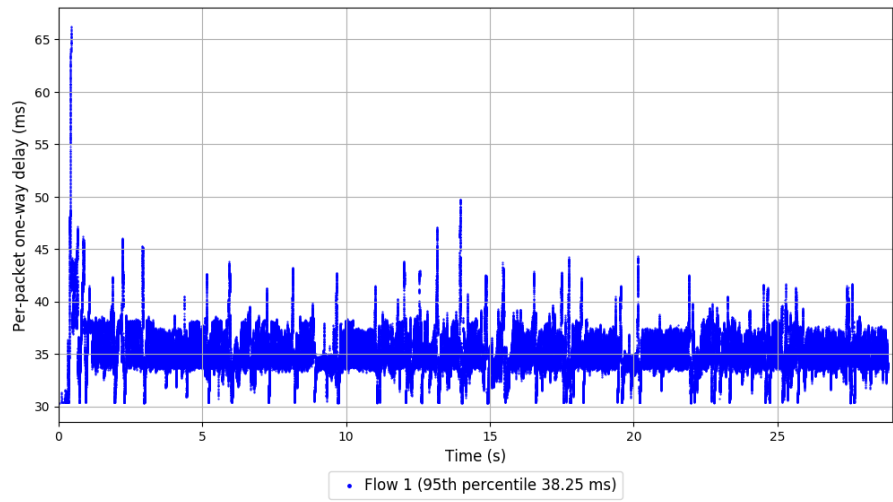
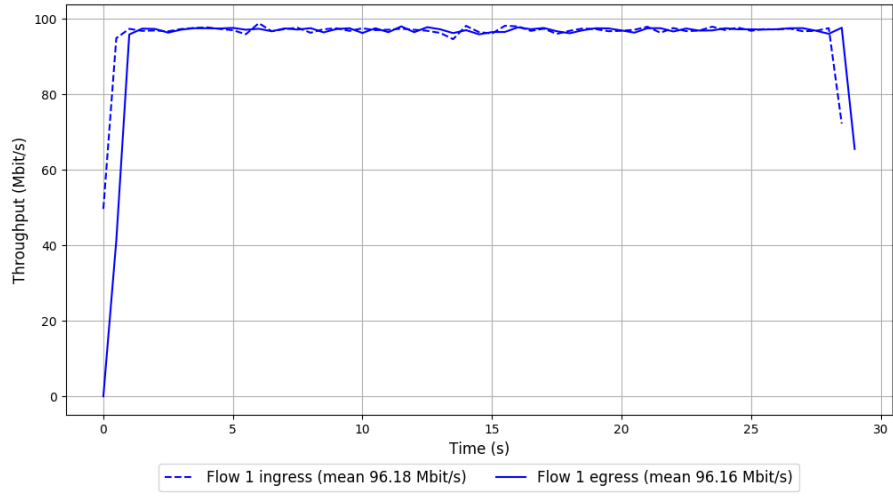
-- Flow 1:

Average throughput: 96.16 Mbit/s

95th percentile per-packet one-way delay: 38.254 ms

Loss rate: 0.25%

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



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-09-18 20:05:59

End at: 2019-09-18 20:06:29

Local clock offset: -1.071 ms

Remote clock offset: 8.784 ms

# Below is generated by plot.py at 2019-09-18 20:32:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.83 Mbit/s

95th percentile per-packet one-way delay: 39.198 ms

Loss rate: 0.24%

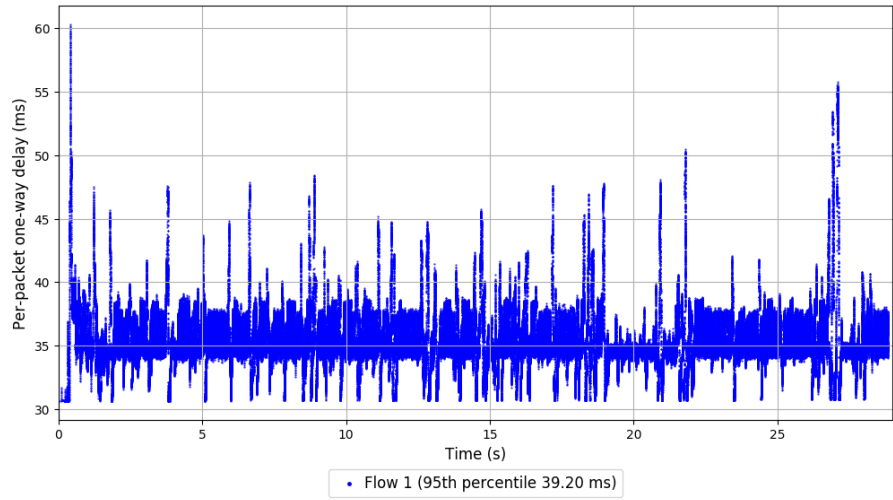
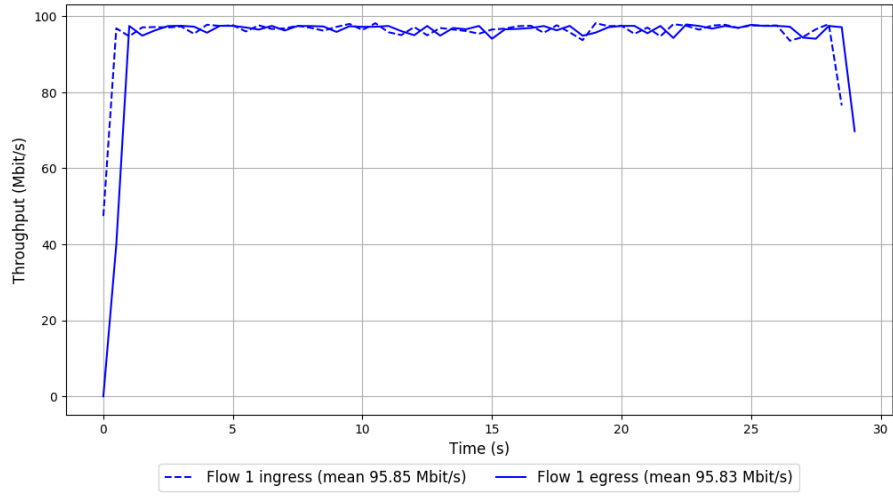
-- Flow 1:

Average throughput: 95.83 Mbit/s

95th percentile per-packet one-way delay: 39.198 ms

Loss rate: 0.24%

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



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-09-18 16:20:46

End at: 2019-09-18 16:21:16

Local clock offset: 0.586 ms

Remote clock offset: 8.0 ms

# Below is generated by plot.py at 2019-09-18 20:32:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.36 Mbit/s

95th percentile per-packet one-way delay: 36.164 ms

Loss rate: 0.24%

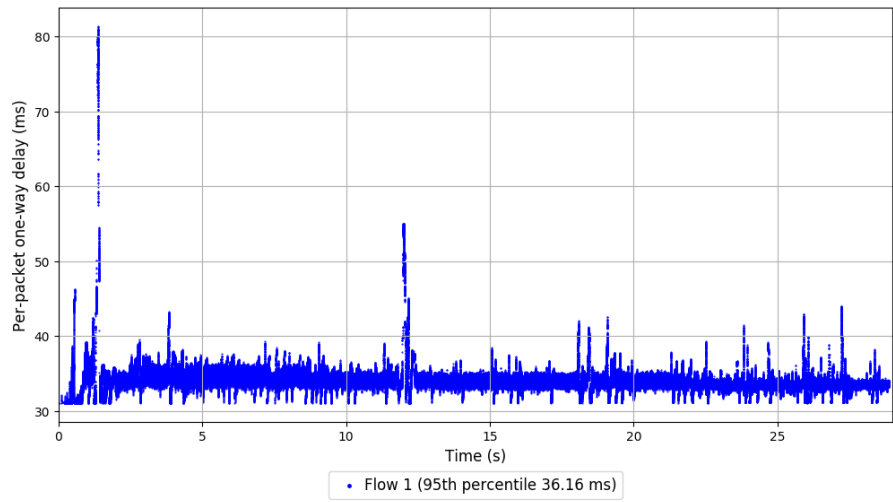
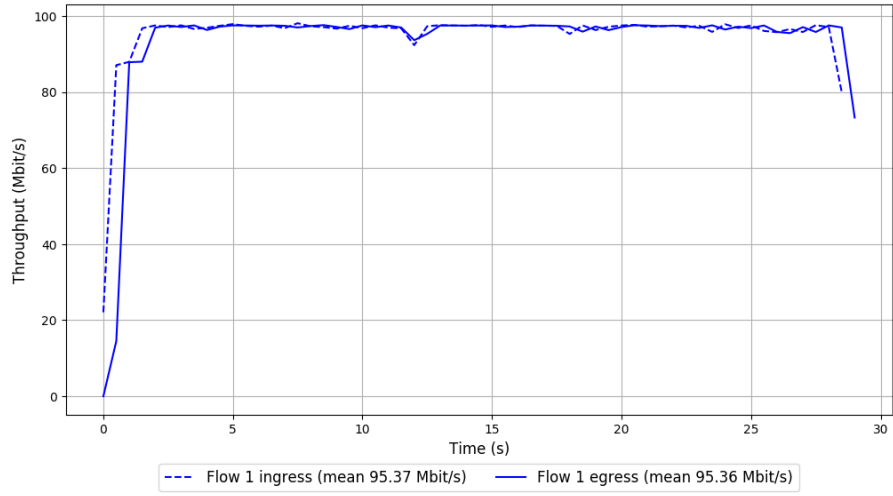
-- Flow 1:

Average throughput: 95.36 Mbit/s

95th percentile per-packet one-way delay: 36.164 ms

Loss rate: 0.24%

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





Run 2: Statistics of Indigo-MusesC5

Start at: 2019-09-18 17:05:12

End at: 2019-09-18 17:05:42

Local clock offset: -1.133 ms

Remote clock offset: 9.085 ms

# Below is generated by plot.py at 2019-09-18 20:33:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.65 Mbit/s

95th percentile per-packet one-way delay: 34.779 ms

Loss rate: 0.24%

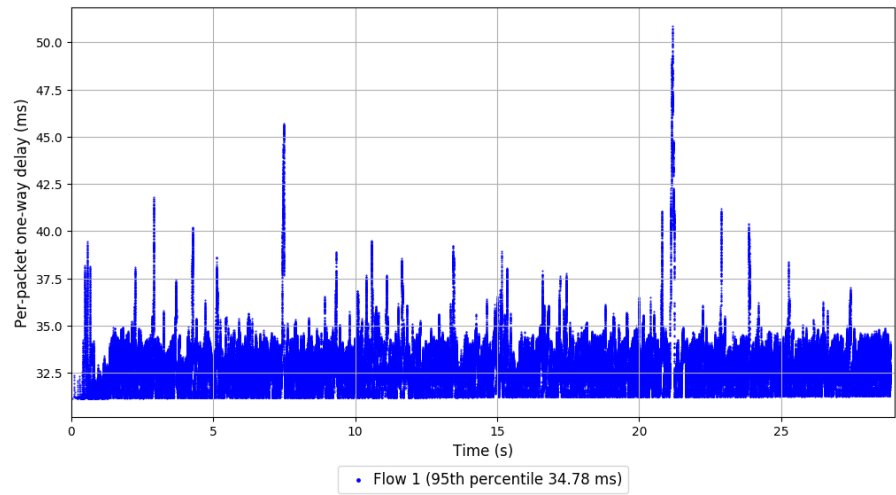
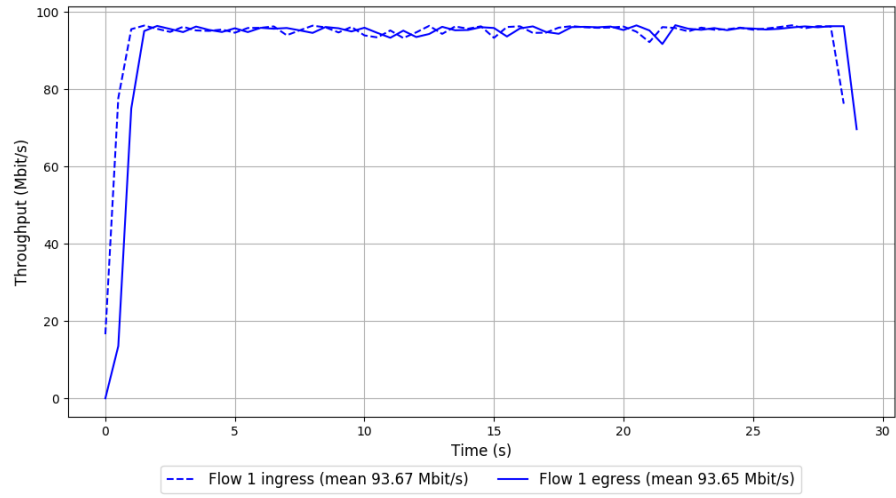
-- Flow 1:

Average throughput: 93.65 Mbit/s

95th percentile per-packet one-way delay: 34.779 ms

Loss rate: 0.24%

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



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-09-18 18:07:25

End at: 2019-09-18 18:07:55

Local clock offset: -1.004 ms

Remote clock offset: 9.214 ms

# Below is generated by plot.py at 2019-09-18 20:33:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.44 Mbit/s

95th percentile per-packet one-way delay: 43.948 ms

Loss rate: 0.21%

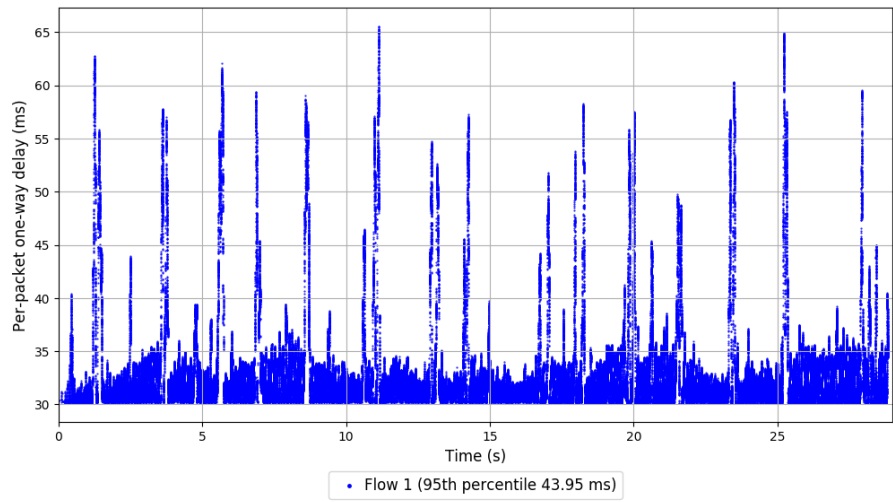
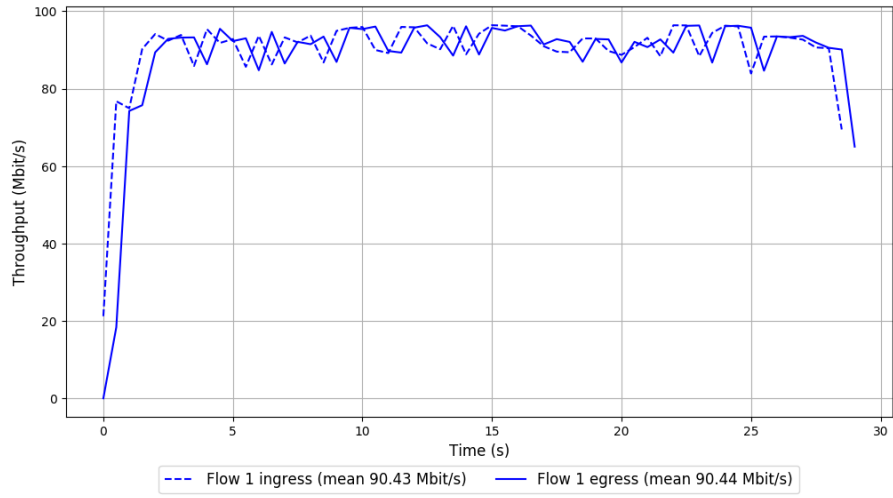
-- Flow 1:

Average throughput: 90.44 Mbit/s

95th percentile per-packet one-way delay: 43.948 ms

Loss rate: 0.21%

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



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-09-18 19:12:17

End at: 2019-09-18 19:12:47

Local clock offset: -0.676 ms

Remote clock offset: 8.374 ms

# Below is generated by plot.py at 2019-09-18 20:33:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.15 Mbit/s

95th percentile per-packet one-way delay: 38.708 ms

Loss rate: 0.25%

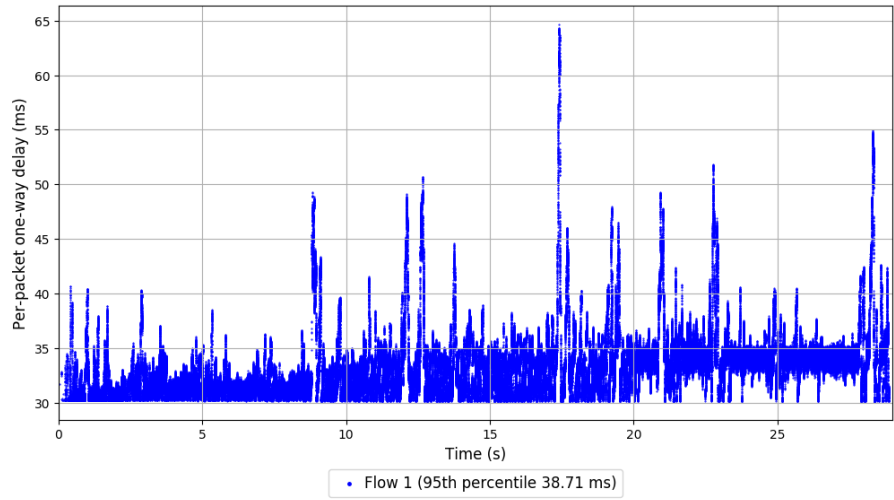
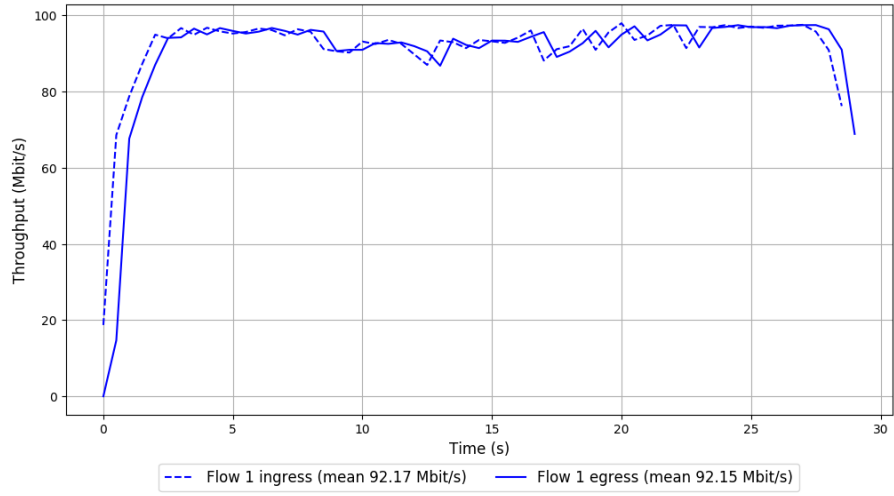
-- Flow 1:

Average throughput: 92.15 Mbit/s

95th percentile per-packet one-way delay: 38.708 ms

Loss rate: 0.25%

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



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-09-18 20:19:39

End at: 2019-09-18 20:20:09

Local clock offset: -2.764 ms

Remote clock offset: 9.024 ms

# Below is generated by plot.py at 2019-09-18 20:33:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.30 Mbit/s

95th percentile per-packet one-way delay: 39.057 ms

Loss rate: 0.25%

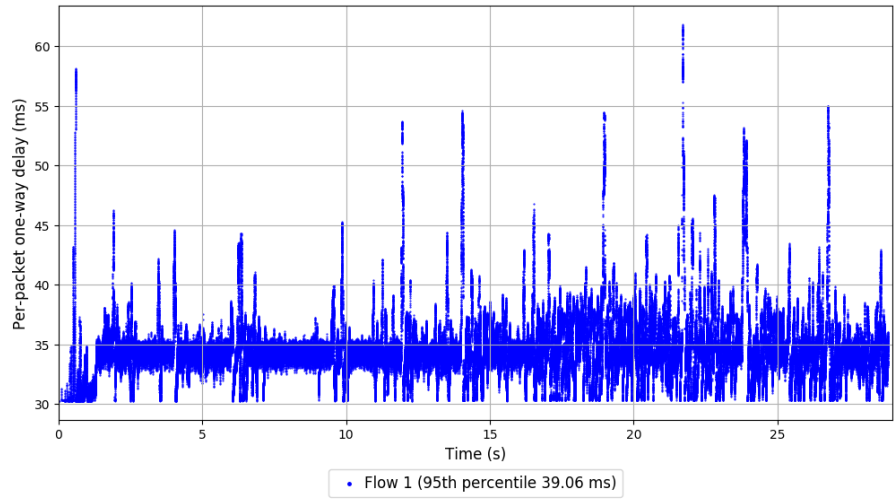
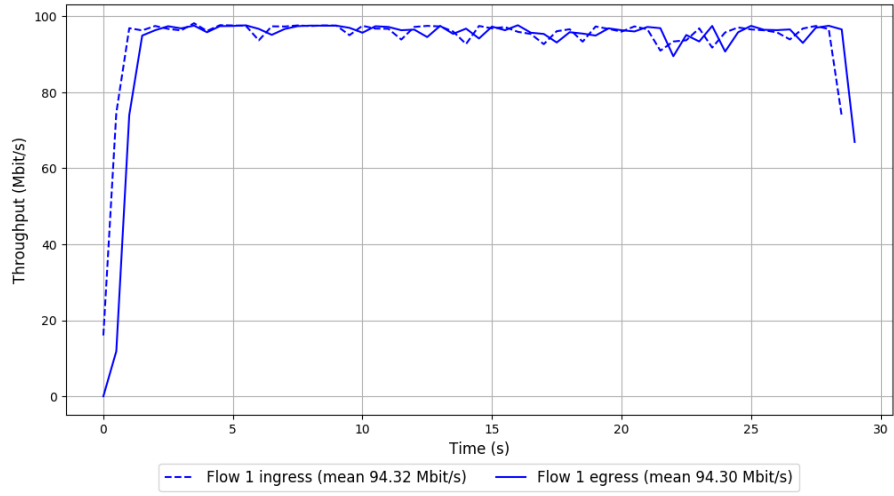
-- Flow 1:

Average throughput: 94.30 Mbit/s

95th percentile per-packet one-way delay: 39.057 ms

Loss rate: 0.25%

### Run 5: Report of Indigo-MusesC5 — Data Link





Run 1: Statistics of Indigo-MusesD

Start at: 2019-09-18 15:55:26

End at: 2019-09-18 15:55:56

Local clock offset: 4.396 ms

Remote clock offset: 7.496 ms

# Below is generated by plot.py at 2019-09-18 20:33:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.27 Mbit/s

95th percentile per-packet one-way delay: 39.702 ms

Loss rate: 0.24%

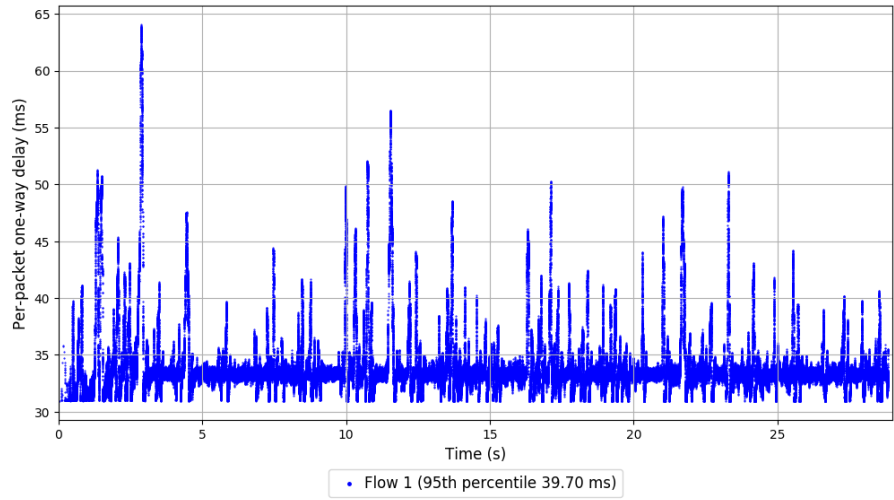
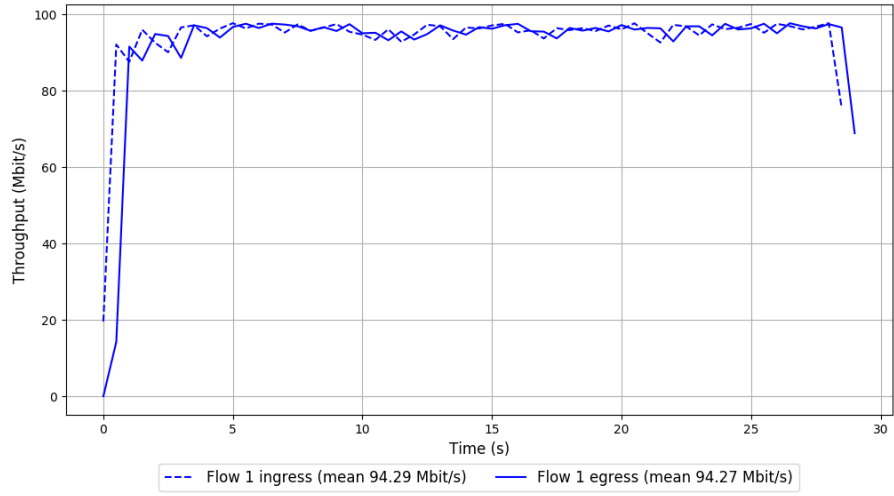
-- Flow 1:

Average throughput: 94.27 Mbit/s

95th percentile per-packet one-way delay: 39.702 ms

Loss rate: 0.24%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-09-18 16:42:00

End at: 2019-09-18 16:42:30

Local clock offset: 0.232 ms

Remote clock offset: 8.357 ms

# Below is generated by plot.py at 2019-09-18 20:33:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.32 Mbit/s

95th percentile per-packet one-way delay: 36.333 ms

Loss rate: 0.24%

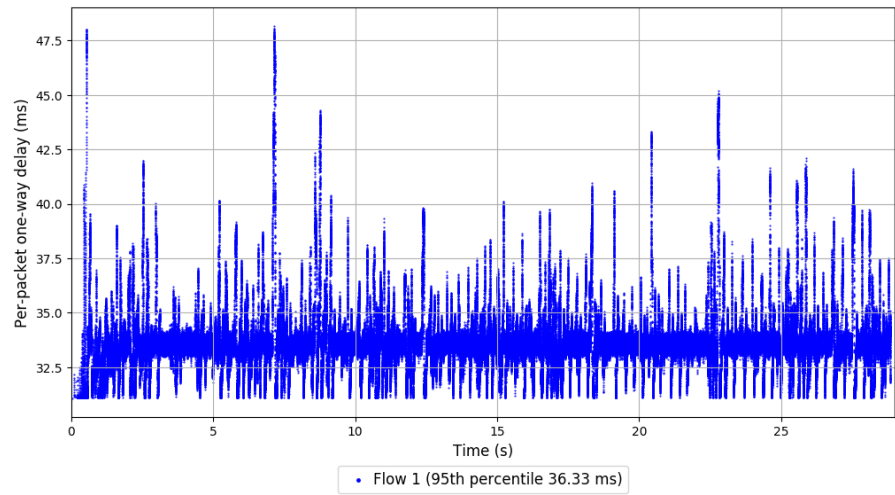
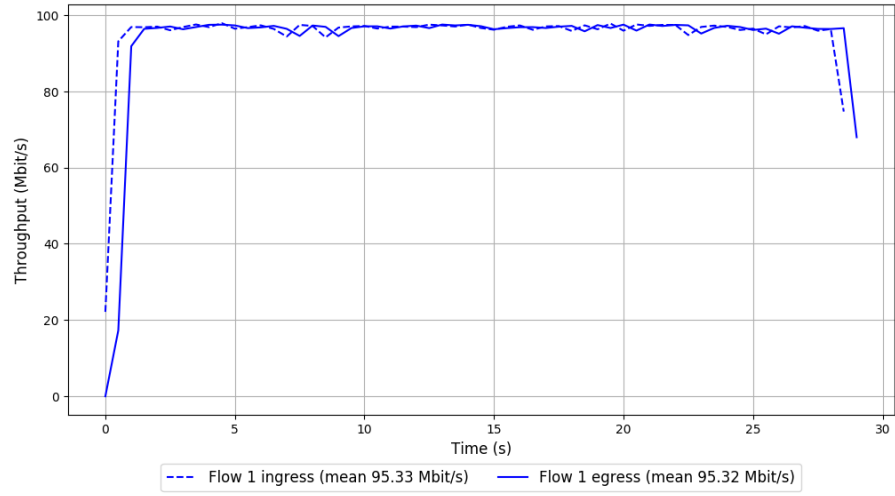
-- Flow 1:

Average throughput: 95.32 Mbit/s

95th percentile per-packet one-way delay: 36.333 ms

Loss rate: 0.24%

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



Run 3: Statistics of Indigo-MusesD

Start at: 2019-09-18 17:31:03

End at: 2019-09-18 17:31:33

Local clock offset: -3.703 ms

Remote clock offset: 9.096 ms

# Below is generated by plot.py at 2019-09-18 20:33:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.56 Mbit/s

95th percentile per-packet one-way delay: 34.580 ms

Loss rate: 0.23%

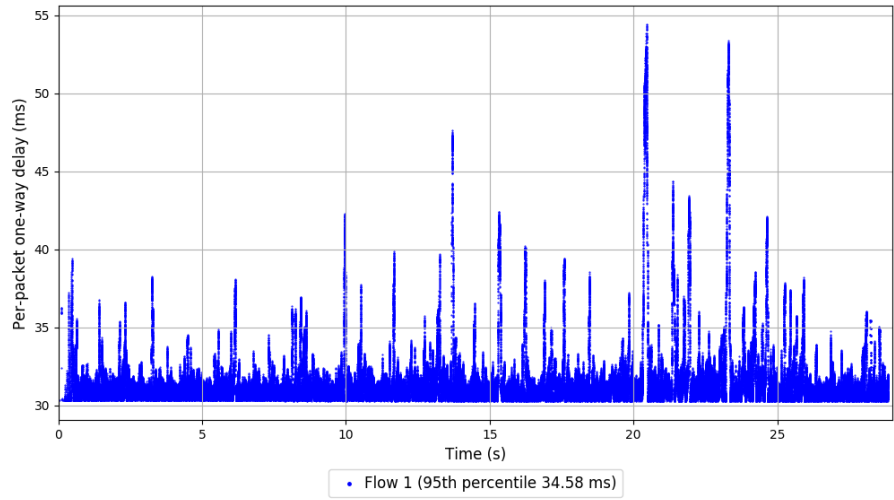
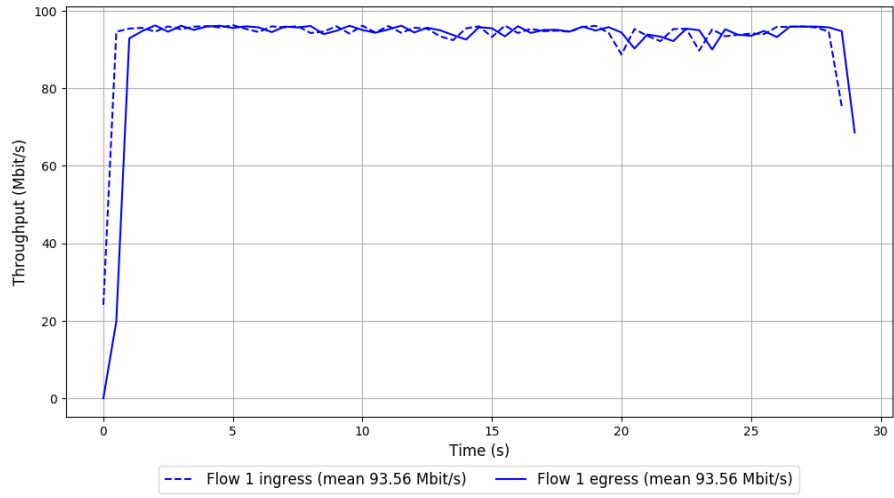
-- Flow 1:

Average throughput: 93.56 Mbit/s

95th percentile per-packet one-way delay: 34.580 ms

Loss rate: 0.23%

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



Run 4: Statistics of Indigo-MusesD

Start at: 2019-09-18 18:36:16

End at: 2019-09-18 18:36:46

Local clock offset: -0.565 ms

Remote clock offset: 9.22 ms

# Below is generated by plot.py at 2019-09-18 20:33:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.43 Mbit/s

95th percentile per-packet one-way delay: 35.963 ms

Loss rate: 0.24%

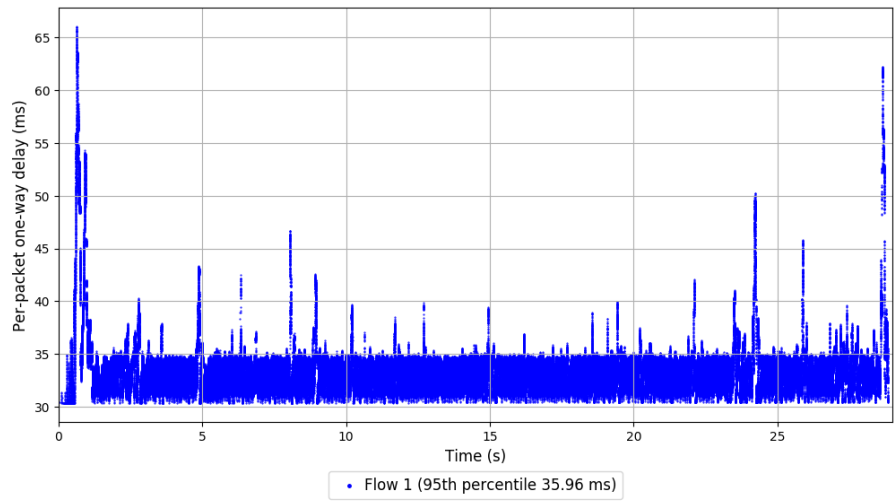
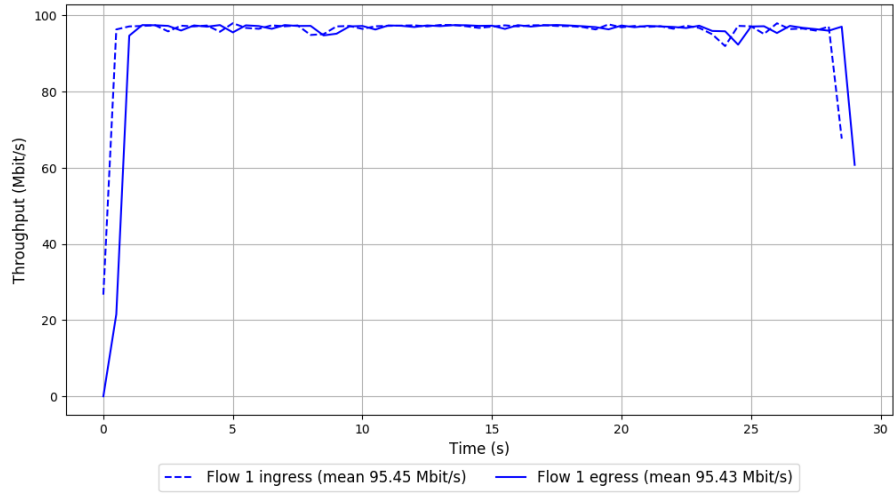
-- Flow 1:

Average throughput: 95.43 Mbit/s

95th percentile per-packet one-way delay: 35.963 ms

Loss rate: 0.24%

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





Run 5: Statistics of Indigo-MusesD

Start at: 2019-09-18 19:44:17

End at: 2019-09-18 19:44:47

Local clock offset: 0.37 ms

Remote clock offset: 8.863 ms

# Below is generated by plot.py at 2019-09-18 20:34:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.54 Mbit/s

95th percentile per-packet one-way delay: 36.993 ms

Loss rate: 0.21%

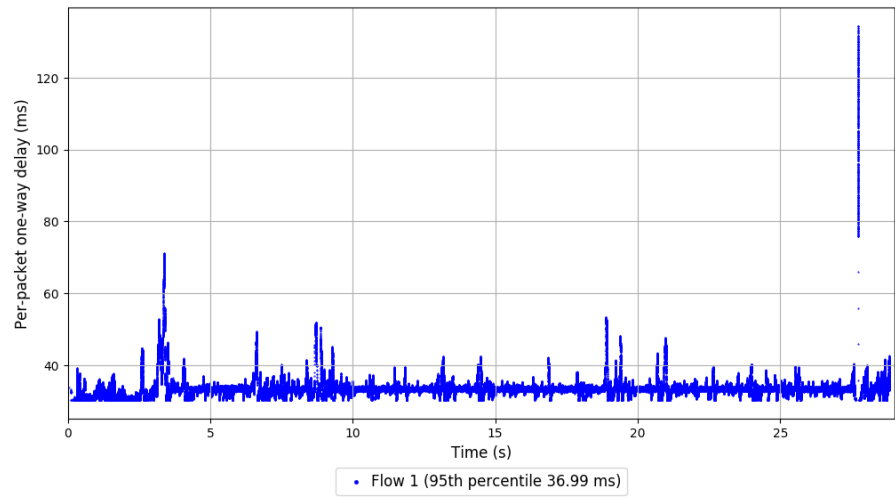
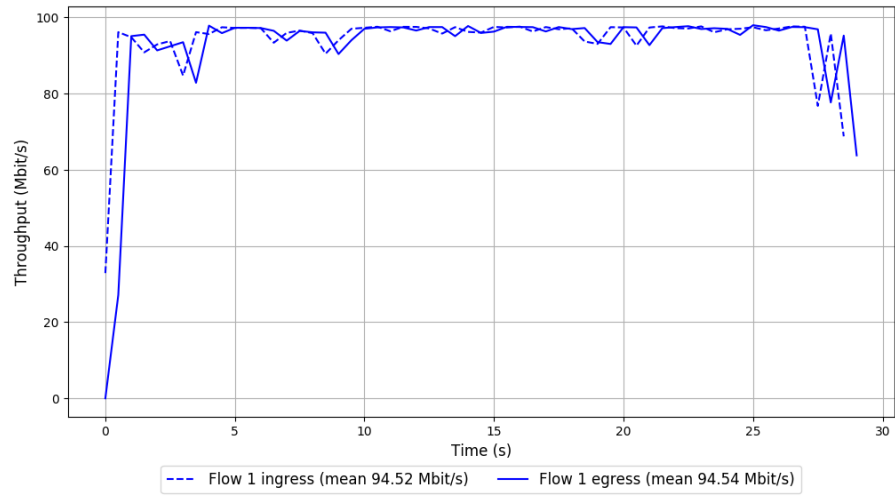
-- Flow 1:

Average throughput: 94.54 Mbit/s

95th percentile per-packet one-way delay: 36.993 ms

Loss rate: 0.21%

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



Run 1: Statistics of Indigo-MuseST

Start at: 2019-09-18 15:57:54

End at: 2019-09-18 15:58:24

Local clock offset: 4.64 ms

Remote clock offset: 7.529 ms

# Below is generated by plot.py at 2019-09-18 20:34:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.40 Mbit/s

95th percentile per-packet one-way delay: 49.829 ms

Loss rate: 0.32%

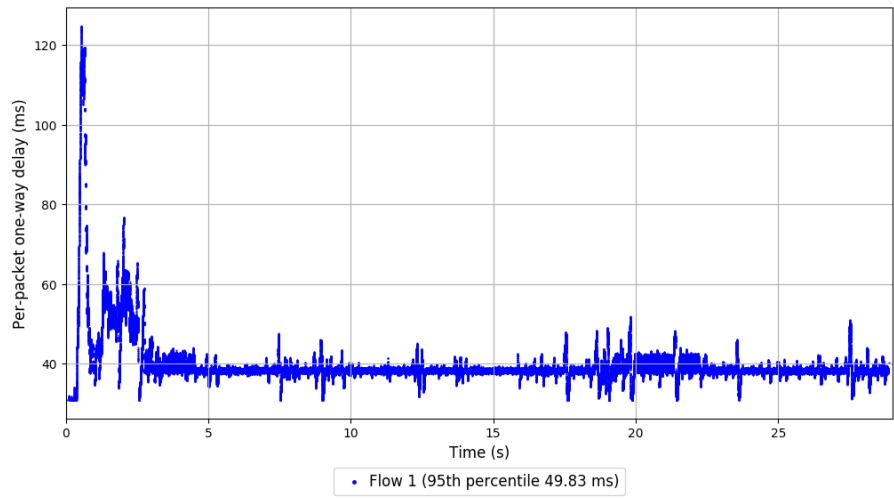
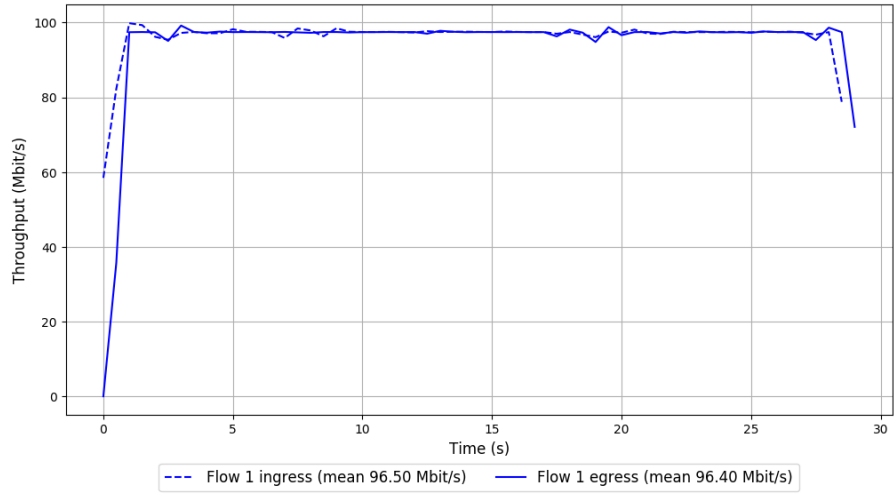
-- Flow 1:

Average throughput: 96.40 Mbit/s

95th percentile per-packet one-way delay: 49.829 ms

Loss rate: 0.32%

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



Run 2: Statistics of Indigo-MusesT

Start at: 2019-09-18 16:44:00

End at: 2019-09-18 16:44:30

Local clock offset: 0.169 ms

Remote clock offset: 8.476 ms

# Below is generated by plot.py at 2019-09-18 20:34:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.12 Mbit/s

95th percentile per-packet one-way delay: 48.403 ms

Loss rate: 0.30%

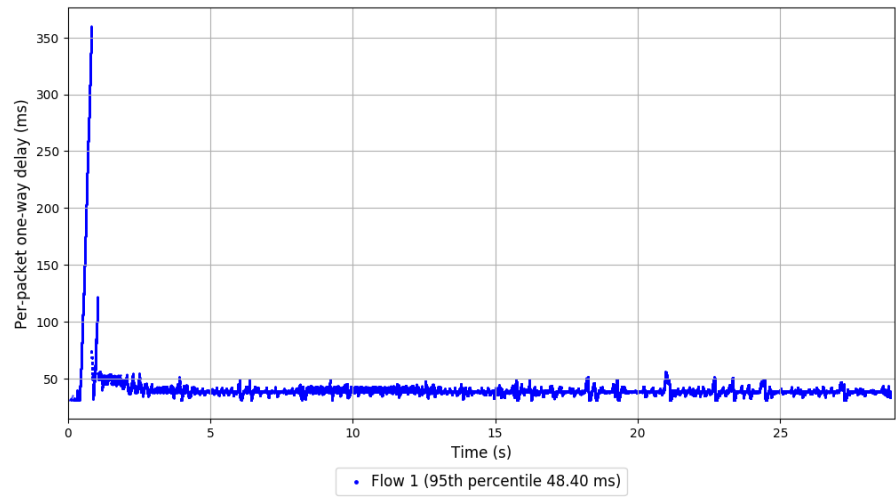
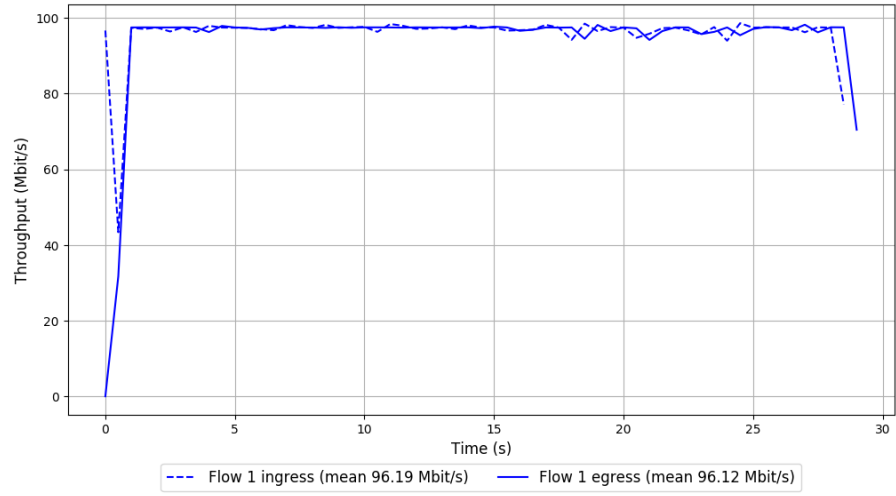
-- Flow 1:

Average throughput: 96.12 Mbit/s

95th percentile per-packet one-way delay: 48.403 ms

Loss rate: 0.30%

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



Run 3: Statistics of Indigo-MuseST

Start at: 2019-09-18 17:33:03

End at: 2019-09-18 17:33:33

Local clock offset: -3.536 ms

Remote clock offset: 9.058 ms

# Below is generated by plot.py at 2019-09-18 20:34:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.44 Mbit/s

95th percentile per-packet one-way delay: 38.584 ms

Loss rate: 0.29%

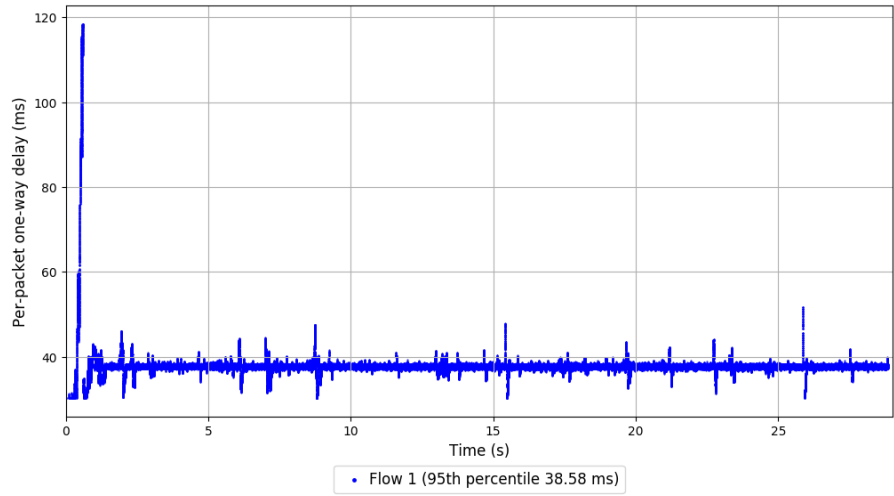
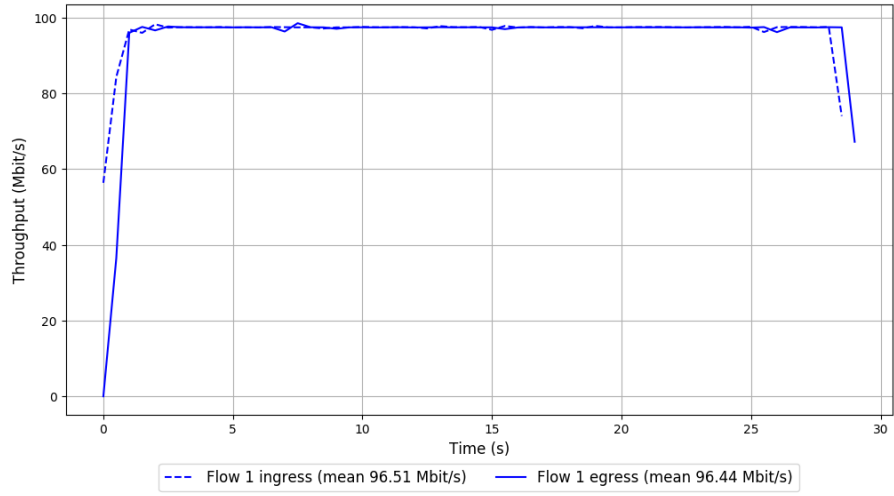
-- Flow 1:

Average throughput: 96.44 Mbit/s

95th percentile per-packet one-way delay: 38.584 ms

Loss rate: 0.29%

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





Run 4: Statistics of Indigo-MuseST

Start at: 2019-09-18 18:38:28

End at: 2019-09-18 18:38:58

Local clock offset: -1.051 ms

Remote clock offset: 9.241 ms

# Below is generated by plot.py at 2019-09-18 20:34:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.13 Mbit/s

95th percentile per-packet one-way delay: 40.921 ms

Loss rate: 0.26%

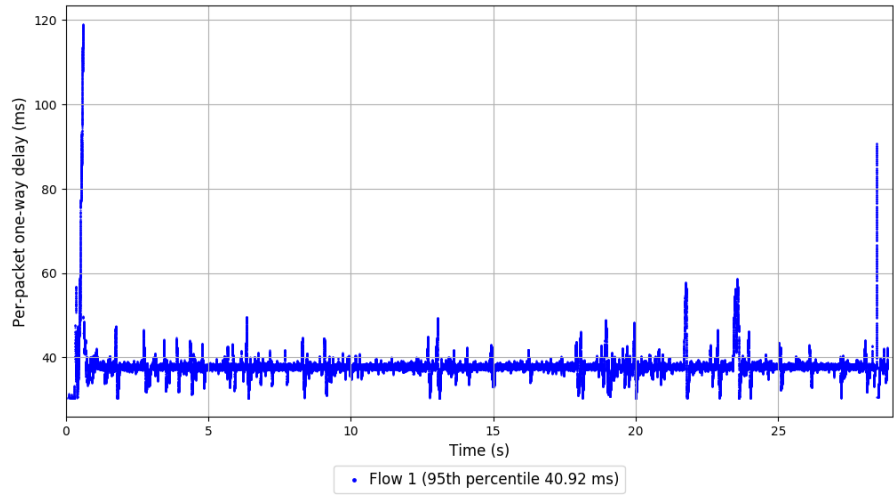
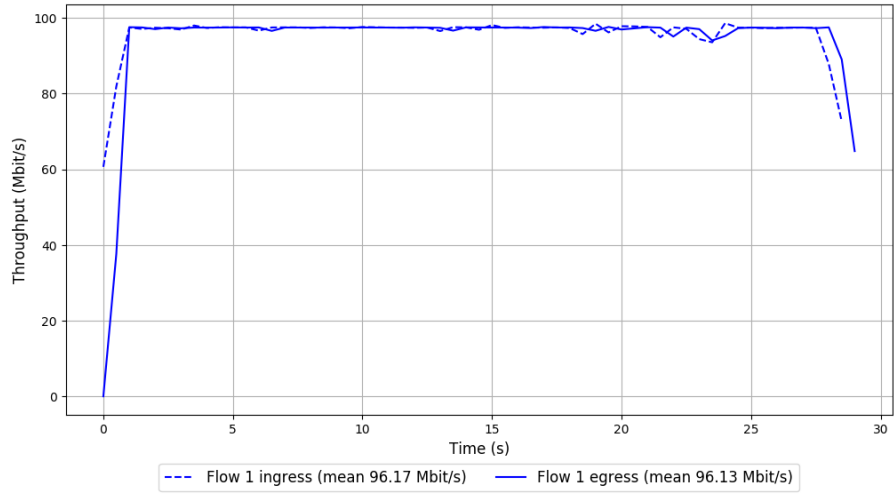
-- Flow 1:

Average throughput: 96.13 Mbit/s

95th percentile per-packet one-way delay: 40.921 ms

Loss rate: 0.26%

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



Run 5: Statistics of Indigo-MuseST

Start at: 2019-09-18 19:47:00

End at: 2019-09-18 19:47:30

Local clock offset: 0.427 ms

Remote clock offset: 8.654 ms

# Below is generated by plot.py at 2019-09-18 20:34:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.21 Mbit/s

95th percentile per-packet one-way delay: 46.550 ms

Loss rate: 0.32%

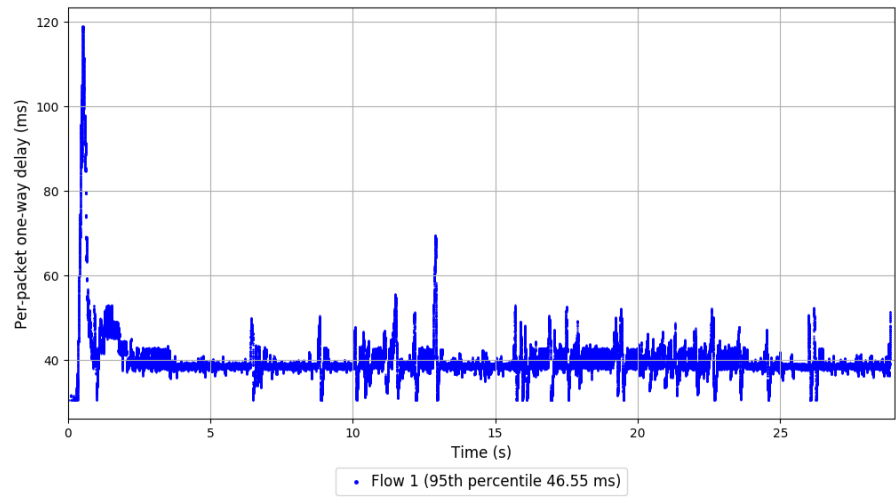
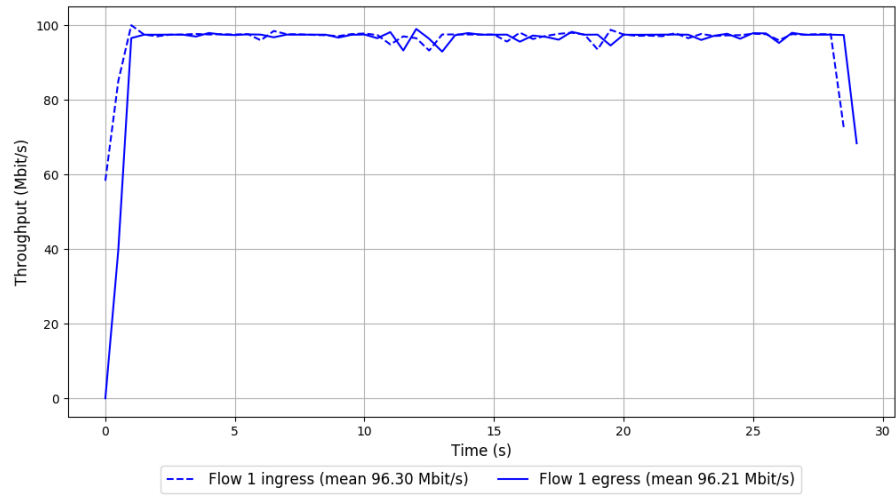
-- Flow 1:

Average throughput: 96.21 Mbit/s

95th percentile per-packet one-way delay: 46.550 ms

Loss rate: 0.32%

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



Run 1: Statistics of LEDBAT

Start at: 2019-09-18 15:50:18

End at: 2019-09-18 15:50:49

Local clock offset: 3.784 ms

Remote clock offset: 7.592 ms

# Below is generated by plot.py at 2019-09-18 20:34:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 60.41 Mbit/s

95th percentile per-packet one-way delay: 42.001 ms

Loss rate: 0.36%

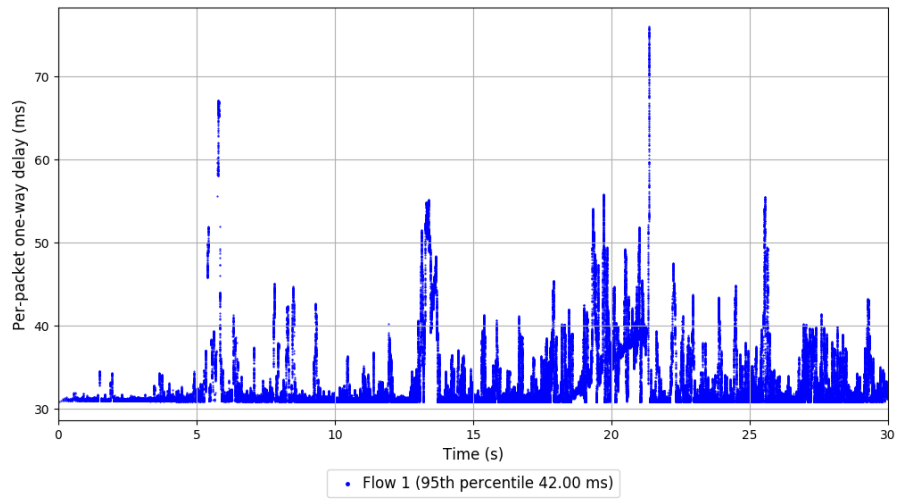
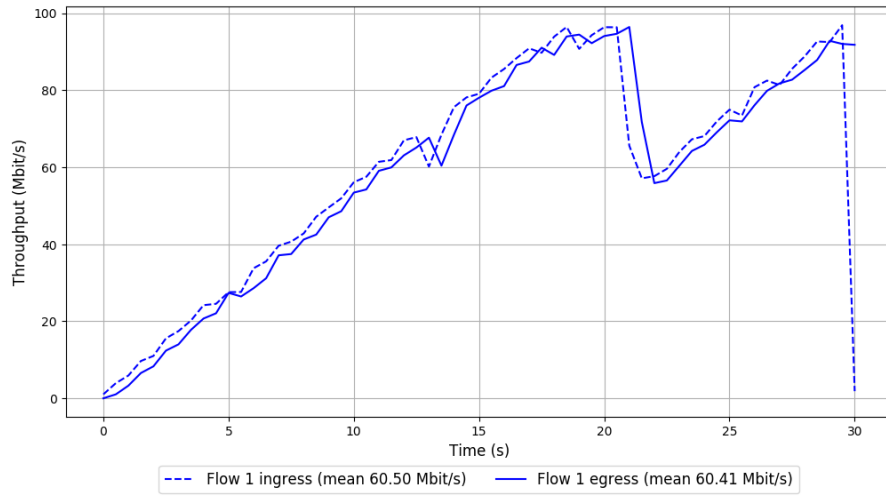
-- Flow 1:

Average throughput: 60.41 Mbit/s

95th percentile per-packet one-way delay: 42.001 ms

Loss rate: 0.36%

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



Run 2: Statistics of LEDBAT

Start at: 2019-09-18 16:38:26

End at: 2019-09-18 16:38:56

Local clock offset: 0.223 ms

Remote clock offset: 8.36 ms

# Below is generated by plot.py at 2019-09-18 20:34:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 61.53 Mbit/s

95th percentile per-packet one-way delay: 38.595 ms

Loss rate: 0.37%

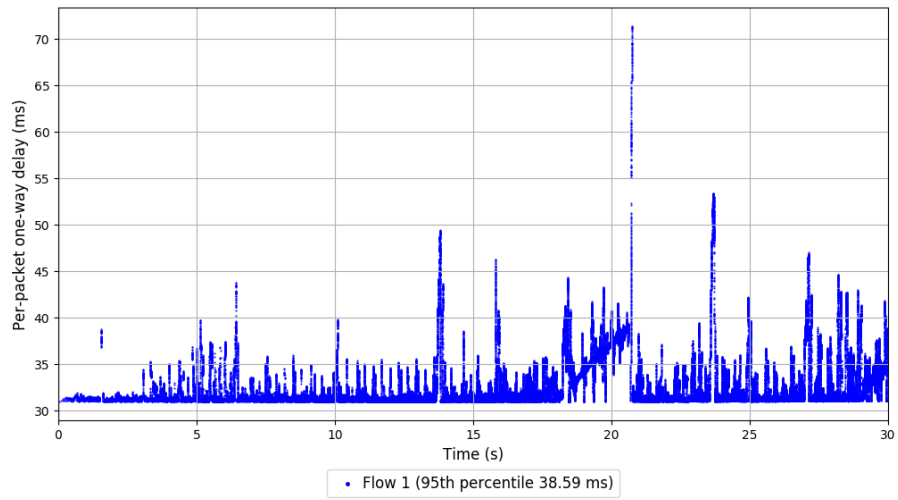
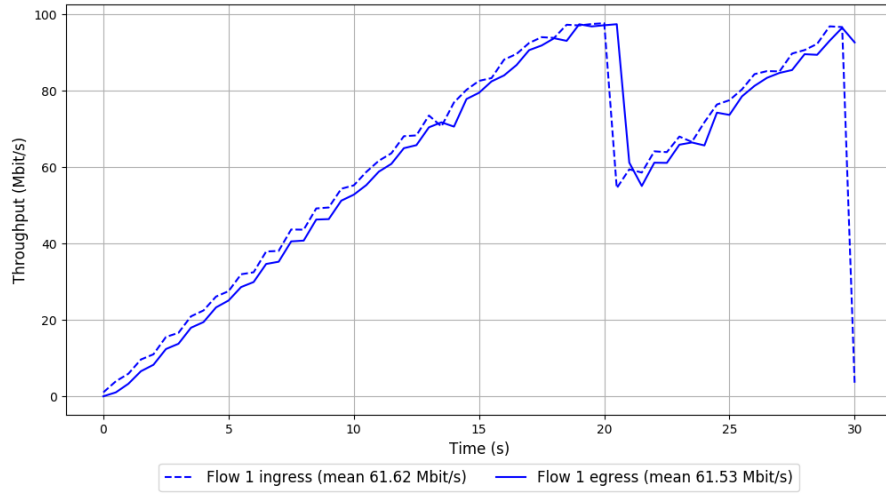
-- Flow 1:

Average throughput: 61.53 Mbit/s

95th percentile per-packet one-way delay: 38.595 ms

Loss rate: 0.37%

Run 2: Report of LEDBAT — Data Link





Run 3: Statistics of LEDBAT

Start at: 2019-09-18 17:26:54

End at: 2019-09-18 17:27:24

Local clock offset: -3.599 ms

Remote clock offset: 9.101 ms

# Below is generated by plot.py at 2019-09-18 20:34:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 62.04 Mbit/s

95th percentile per-packet one-way delay: 37.157 ms

Loss rate: 0.37%

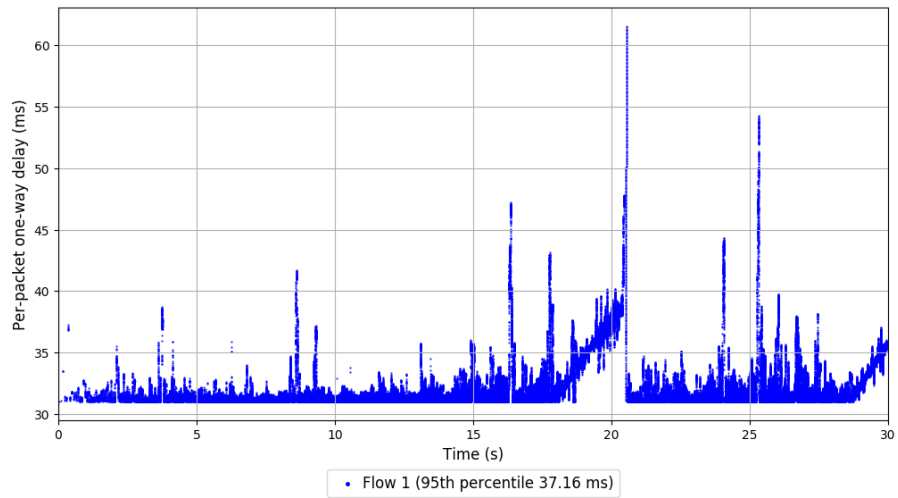
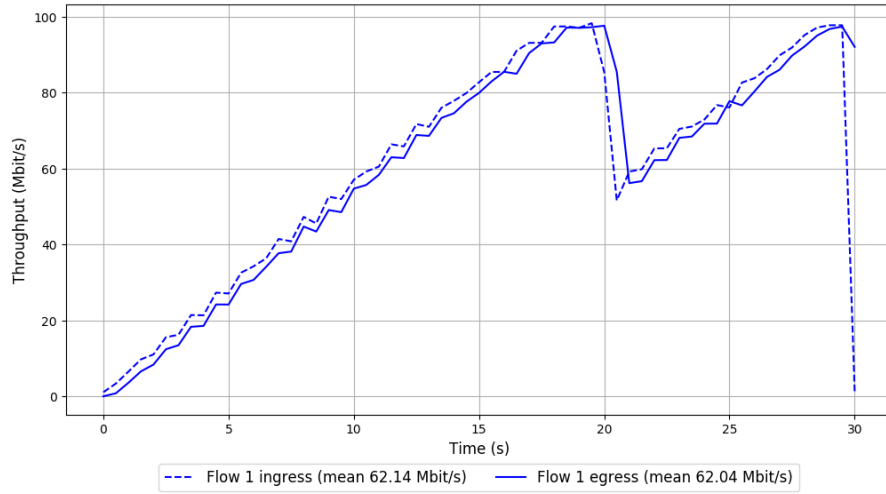
-- Flow 1:

Average throughput: 62.04 Mbit/s

95th percentile per-packet one-way delay: 37.157 ms

Loss rate: 0.37%

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



Run 4: Statistics of LEDBAT

Start at: 2019-09-18 18:31:53

End at: 2019-09-18 18:32:23

Local clock offset: 0.848 ms

Remote clock offset: 9.2 ms

# Below is generated by plot.py at 2019-09-18 20:34:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 63.07 Mbit/s

95th percentile per-packet one-way delay: 36.876 ms

Loss rate: 0.37%

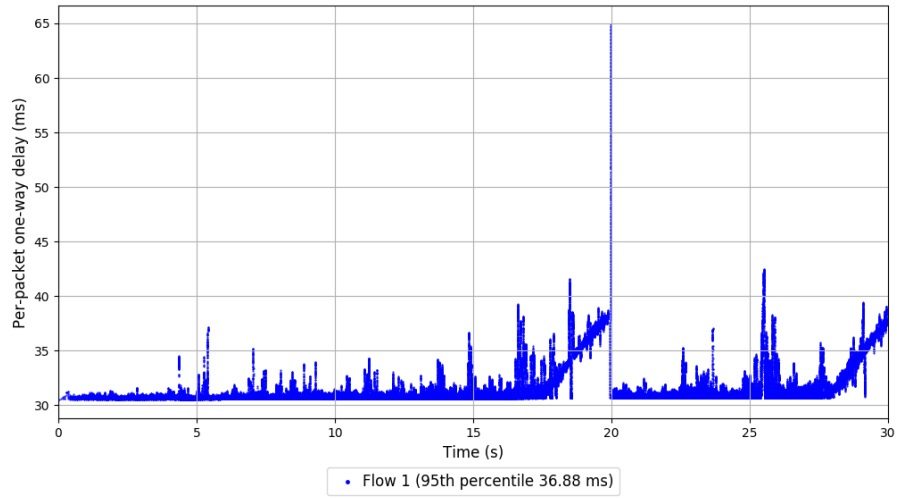
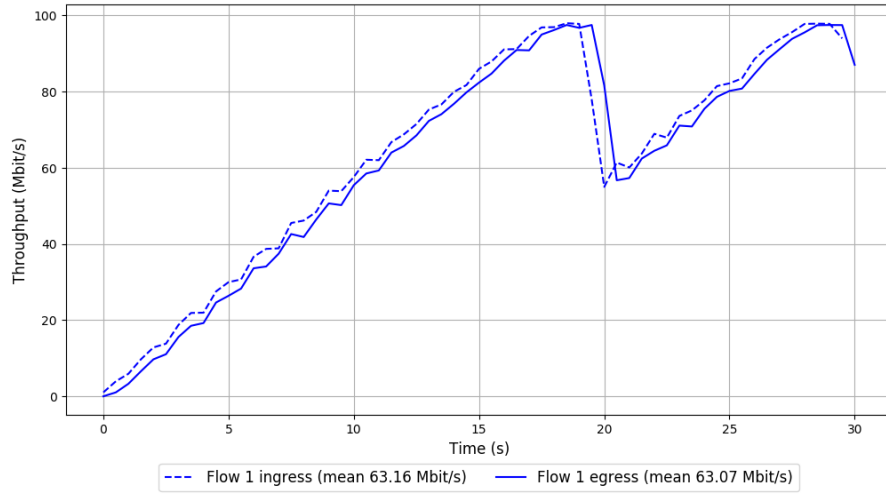
-- Flow 1:

Average throughput: 63.07 Mbit/s

95th percentile per-packet one-way delay: 36.876 ms

Loss rate: 0.37%

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



Run 5: Statistics of LEDBAT

Start at: 2019-09-18 19:38:55

End at: 2019-09-18 19:39:25

Local clock offset: 0.246 ms

Remote clock offset: 8.563 ms

# Below is generated by plot.py at 2019-09-18 20:35:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 62.66 Mbit/s

95th percentile per-packet one-way delay: 37.609 ms

Loss rate: 0.37%

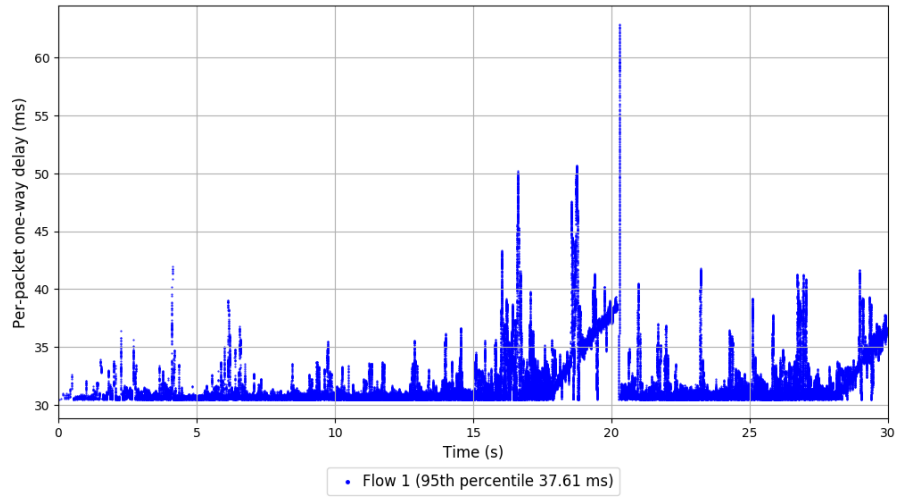
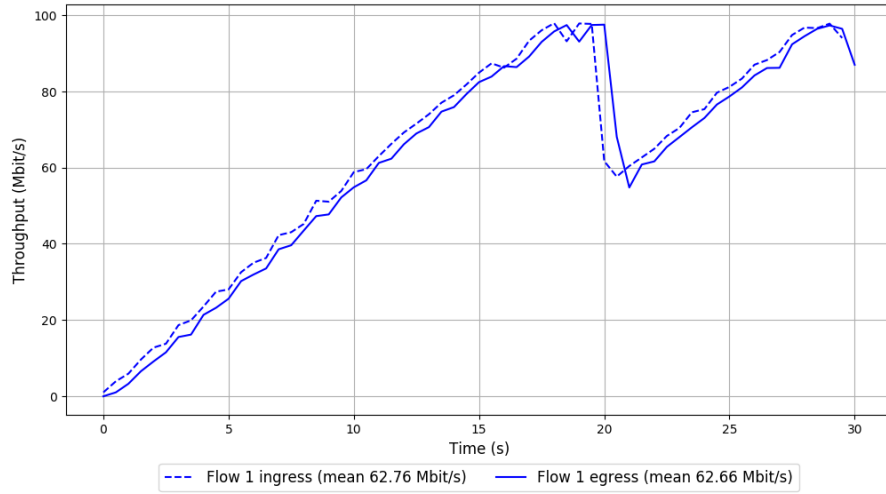
-- Flow 1:

Average throughput: 62.66 Mbit/s

95th percentile per-packet one-way delay: 37.609 ms

Loss rate: 0.37%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-09-18 15:53:02

End at: 2019-09-18 15:53:32

Local clock offset: 4.119 ms

Remote clock offset: 7.532 ms

# Below is generated by plot.py at 2019-09-18 20:35:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.56 Mbit/s

95th percentile per-packet one-way delay: 43.431 ms

Loss rate: 0.25%

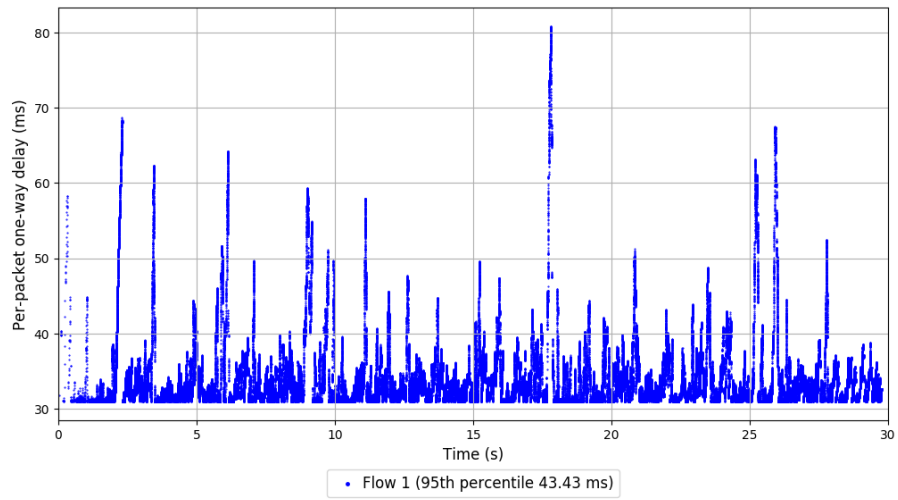
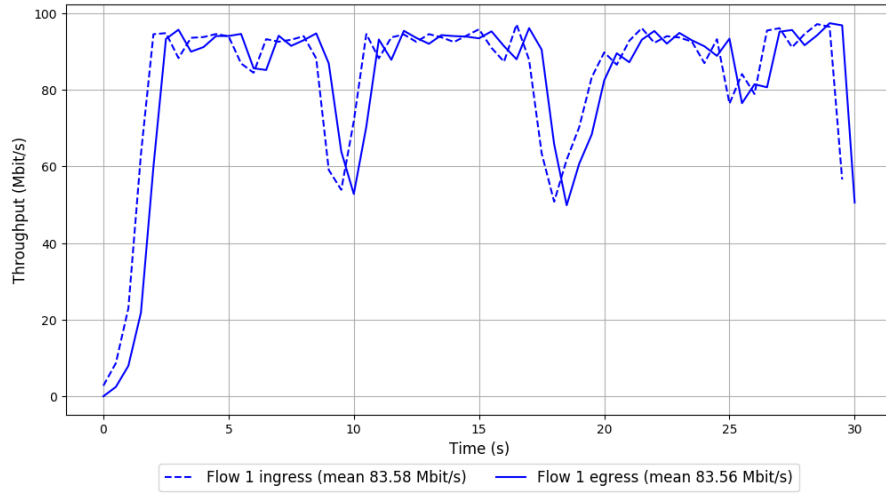
-- Flow 1:

Average throughput: 83.56 Mbit/s

95th percentile per-packet one-way delay: 43.431 ms

Loss rate: 0.25%

Run 1: Report of Muses\_DecisionTree — Data Link





Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-09-18 16:40:11

End at: 2019-09-18 16:40:41

Local clock offset: 0.215 ms

Remote clock offset: 8.438 ms

# Below is generated by plot.py at 2019-09-18 20:35:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.90 Mbit/s

95th percentile per-packet one-way delay: 38.861 ms

Loss rate: 0.24%

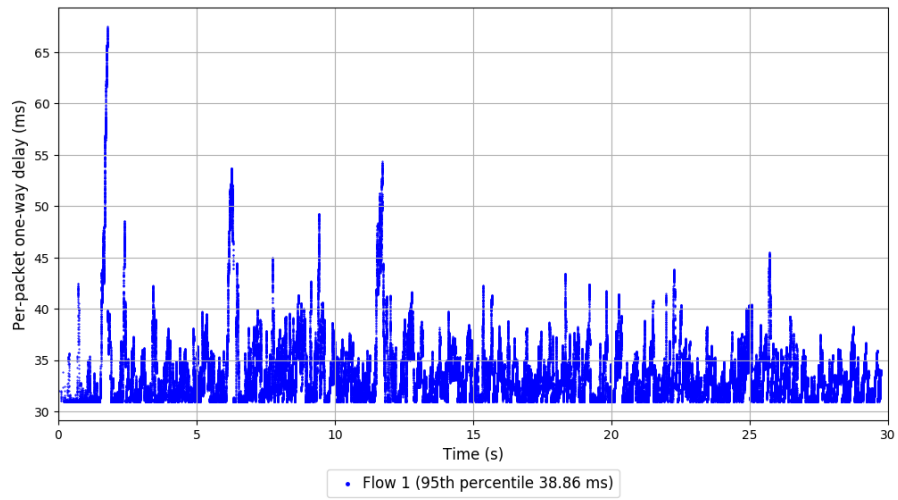
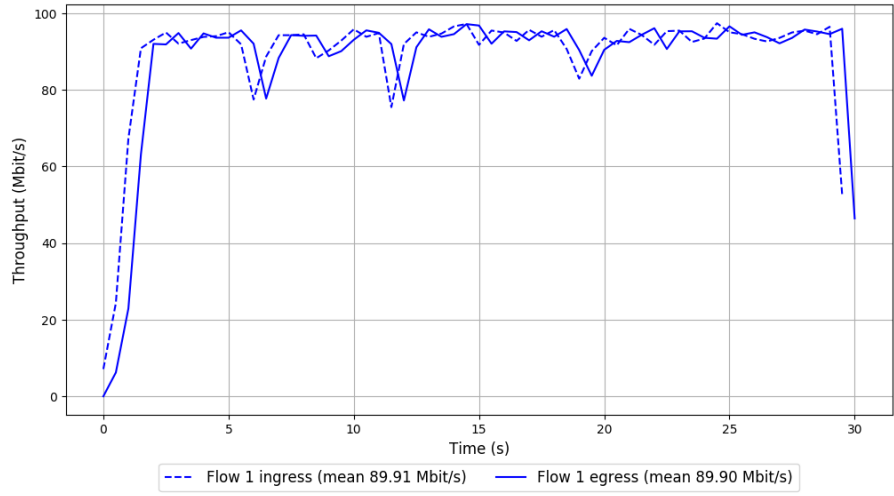
-- Flow 1:

Average throughput: 89.90 Mbit/s

95th percentile per-packet one-way delay: 38.861 ms

Loss rate: 0.24%

Run 2: Report of Muses\_DecisionTree — Data Link



Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-09-18 17:28:59

End at: 2019-09-18 17:29:29

Local clock offset: -3.716 ms

Remote clock offset: 9.02 ms

# Below is generated by plot.py at 2019-09-18 20:35:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 72.21 Mbit/s

95th percentile per-packet one-way delay: 35.605 ms

Loss rate: 1.46%

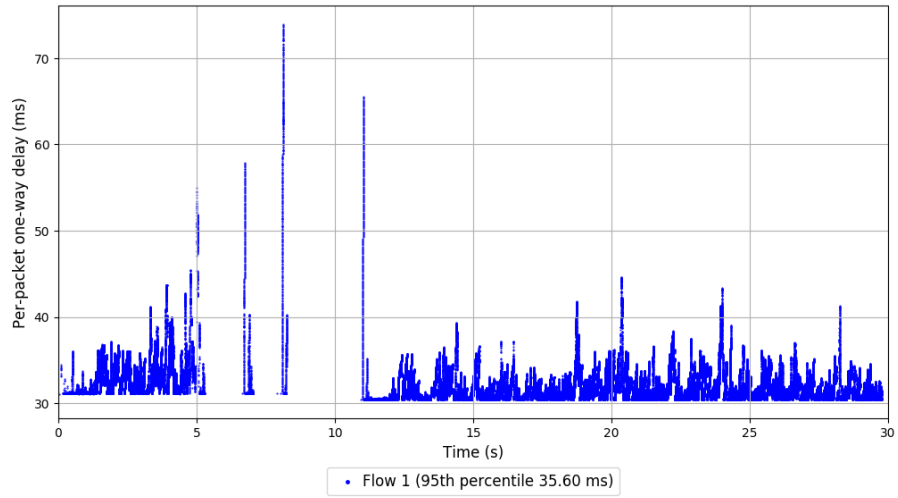
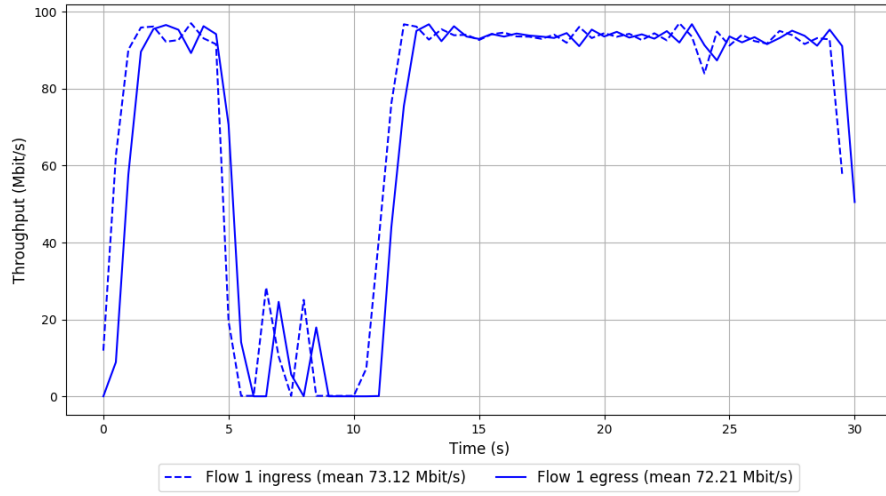
-- Flow 1:

Average throughput: 72.21 Mbit/s

95th percentile per-packet one-way delay: 35.605 ms

Loss rate: 1.46%

### Run 3: Report of Muses\_DecisionTree — Data Link



Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-09-18 18:34:06

End at: 2019-09-18 18:34:36

Local clock offset: 0.028 ms

Remote clock offset: 9.189 ms

# Below is generated by plot.py at 2019-09-18 20:35:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.75 Mbit/s

95th percentile per-packet one-way delay: 37.329 ms

Loss rate: 0.24%

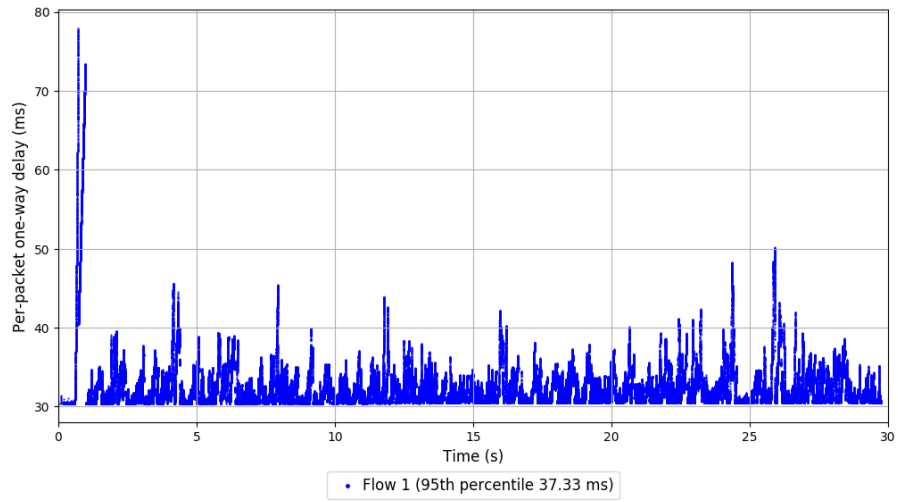
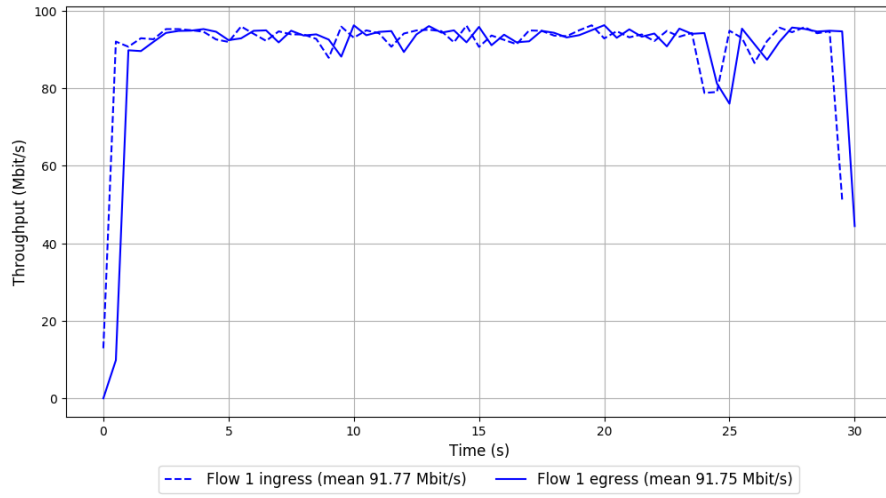
-- Flow 1:

Average throughput: 91.75 Mbit/s

95th percentile per-packet one-way delay: 37.329 ms

Loss rate: 0.24%

Run 4: Report of Muses\_DecisionTree — Data Link



Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-09-18 19:41:32

End at: 2019-09-18 19:42:02

Local clock offset: 0.3 ms

Remote clock offset: 8.616 ms

# Below is generated by plot.py at 2019-09-18 20:35:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.11 Mbit/s

95th percentile per-packet one-way delay: 35.833 ms

Loss rate: 0.23%

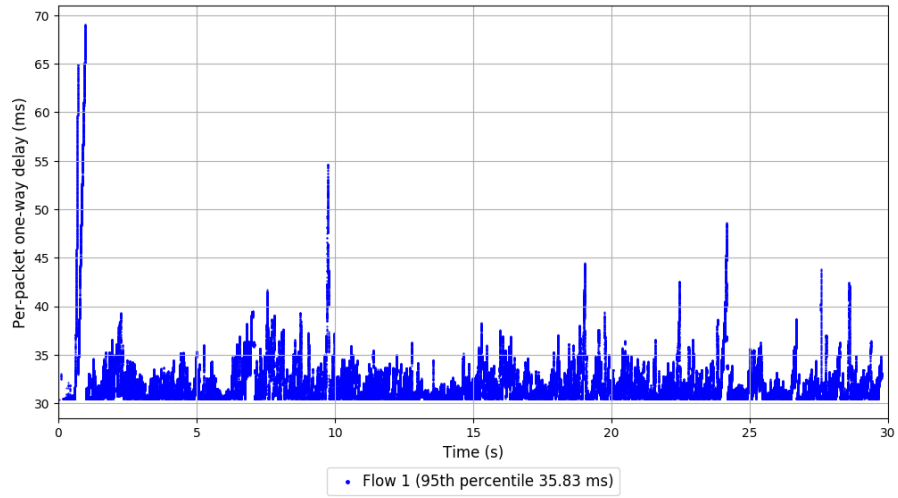
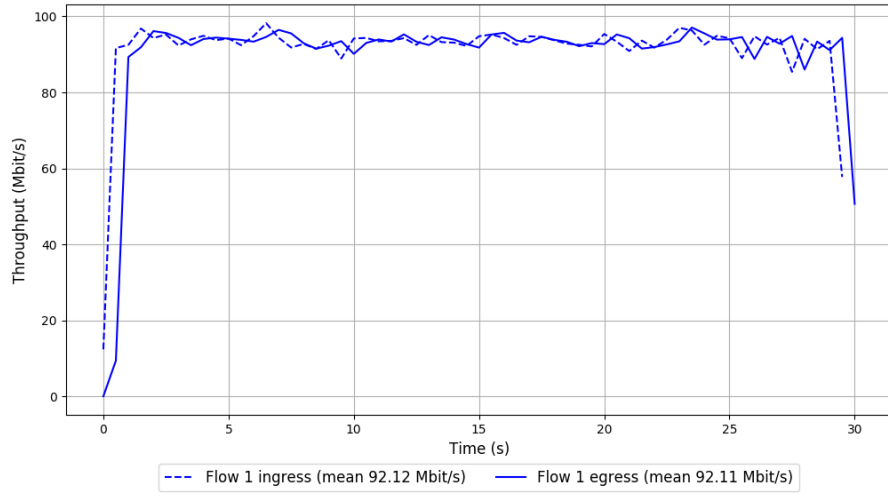
-- Flow 1:

Average throughput: 92.11 Mbit/s

95th percentile per-packet one-way delay: 35.833 ms

Loss rate: 0.23%

Run 5: Report of Muses\_DecisionTree — Data Link





Run 1: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-09-18 16:00:29

End at: 2019-09-18 16:00:59

Local clock offset: 4.91 ms

Remote clock offset: 7.581 ms

# Below is generated by plot.py at 2019-09-18 20:35:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.61 Mbit/s

95th percentile per-packet one-way delay: 57.143 ms

Loss rate: 0.40%

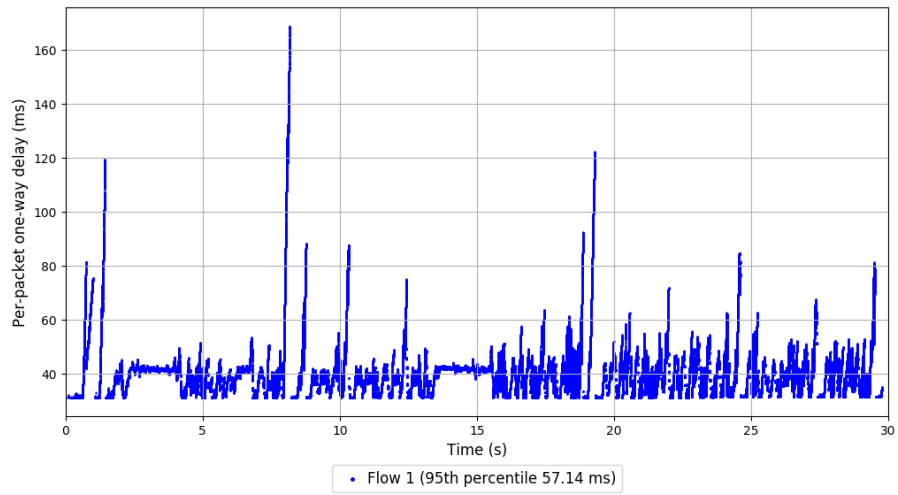
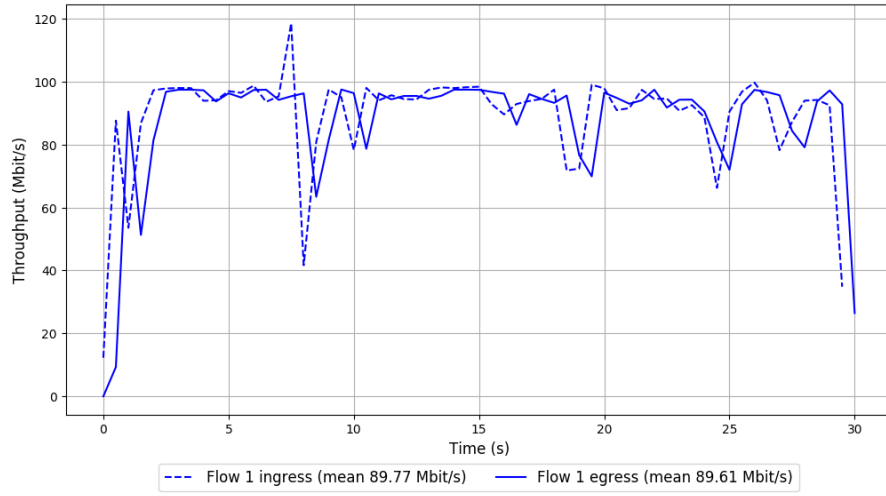
-- Flow 1:

Average throughput: 89.61 Mbit/s

95th percentile per-packet one-way delay: 57.143 ms

Loss rate: 0.40%

Run 1: Report of Muses\_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-09-18 16:46:01

End at: 2019-09-18 16:46:31

Local clock offset: 0.163 ms

Remote clock offset: 8.496 ms

# Below is generated by plot.py at 2019-09-18 20:35:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.75 Mbit/s

95th percentile per-packet one-way delay: 74.643 ms

Loss rate: 0.12%

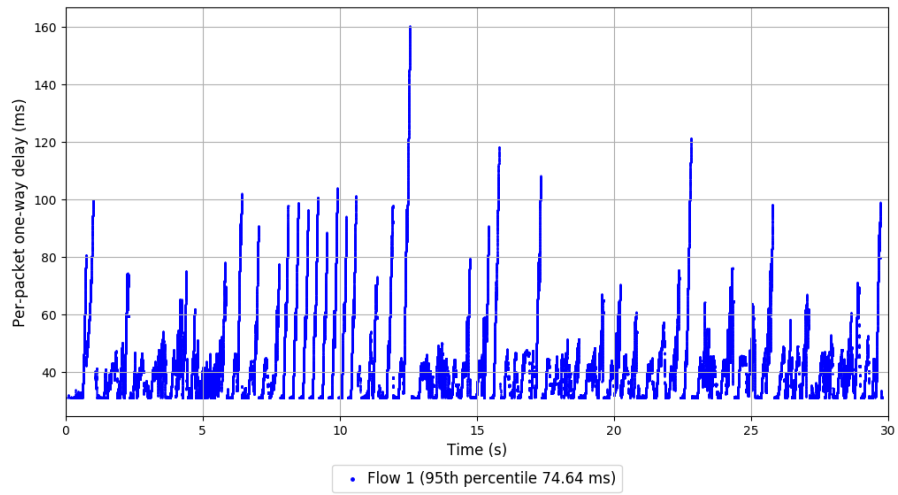
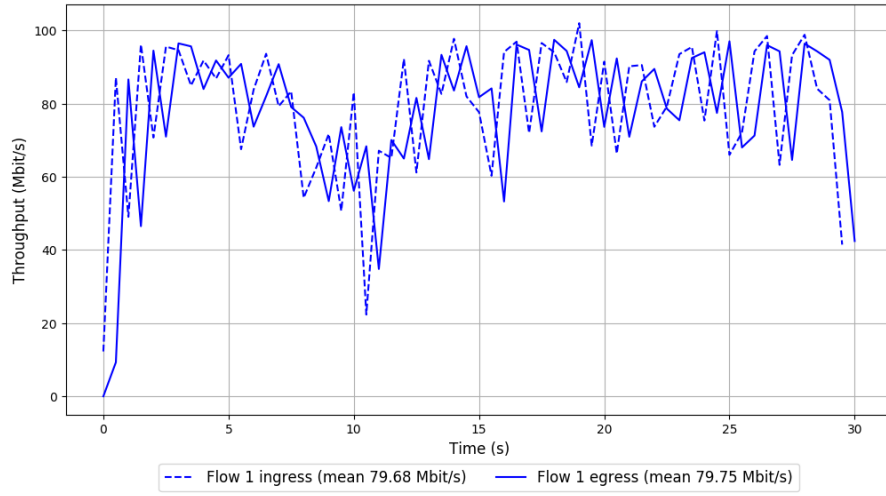
-- Flow 1:

Average throughput: 79.75 Mbit/s

95th percentile per-packet one-way delay: 74.643 ms

Loss rate: 0.12%

Run 2: Report of Muses\_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-09-18 17:35:08

End at: 2019-09-18 17:35:38

Local clock offset: -3.421 ms

Remote clock offset: 9.212 ms

# Below is generated by plot.py at 2019-09-18 20:36:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.37 Mbit/s

95th percentile per-packet one-way delay: 55.258 ms

Loss rate: 0.29%

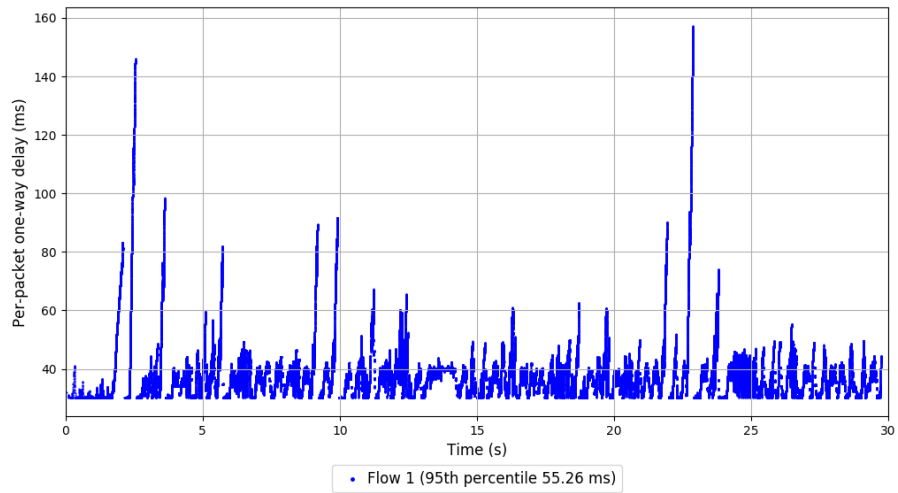
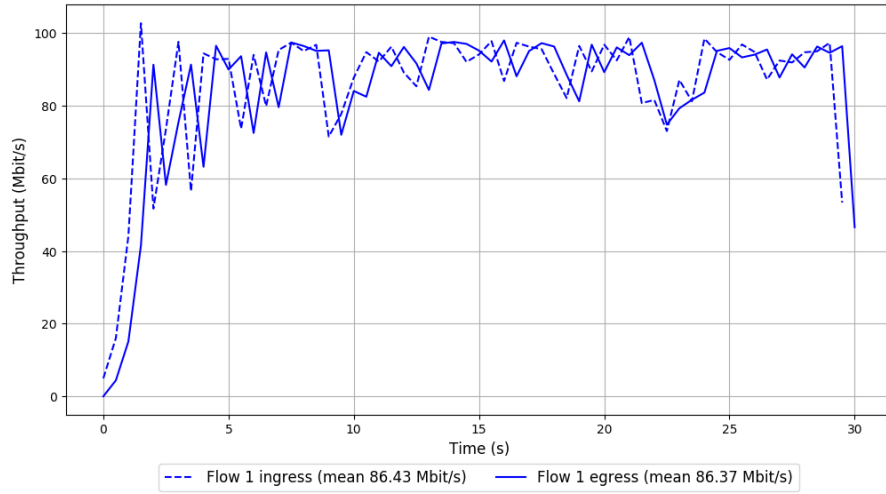
-- Flow 1:

Average throughput: 86.37 Mbit/s

95th percentile per-packet one-way delay: 55.258 ms

Loss rate: 0.29%

Run 3: Report of Muses\_DecisionTreeH0 — Data Link



Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-09-18 18:42:11

End at: 2019-09-18 18:42:41

Local clock offset: -1.703 ms

Remote clock offset: 9.193 ms

# Below is generated by plot.py at 2019-09-18 20:36:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 82.46 Mbit/s

95th percentile per-packet one-way delay: 71.281 ms

Loss rate: 0.39%

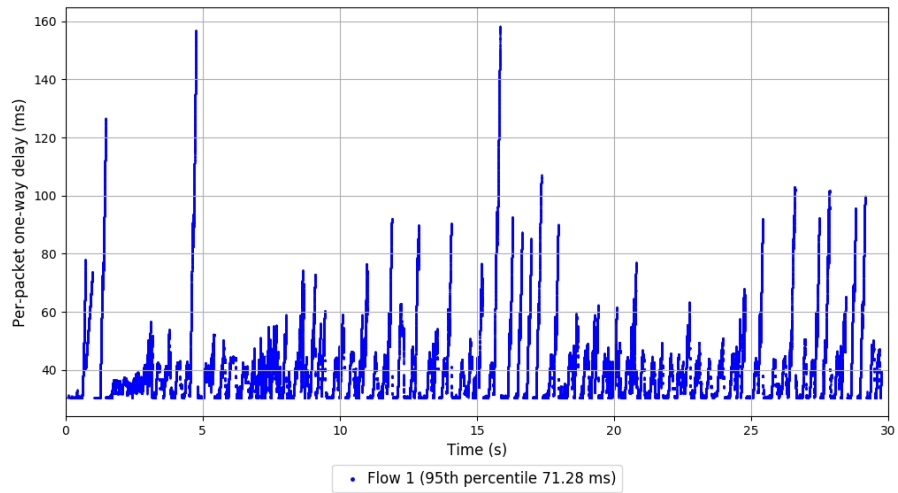
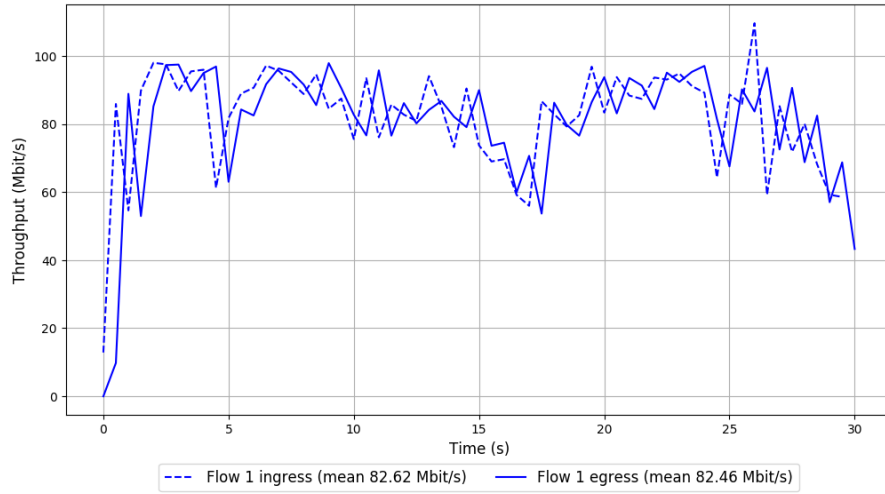
-- Flow 1:

Average throughput: 82.46 Mbit/s

95th percentile per-packet one-way delay: 71.281 ms

Loss rate: 0.39%

Run 4: Report of Muses\_DecisionTreeH0 — Data Link





Run 5: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-09-18 19:50:00

End at: 2019-09-18 19:50:30

Local clock offset: 0.398 ms

Remote clock offset: 8.743 ms

# Below is generated by plot.py at 2019-09-18 20:36:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.58 Mbit/s

95th percentile per-packet one-way delay: 72.101 ms

Loss rate: 0.33%

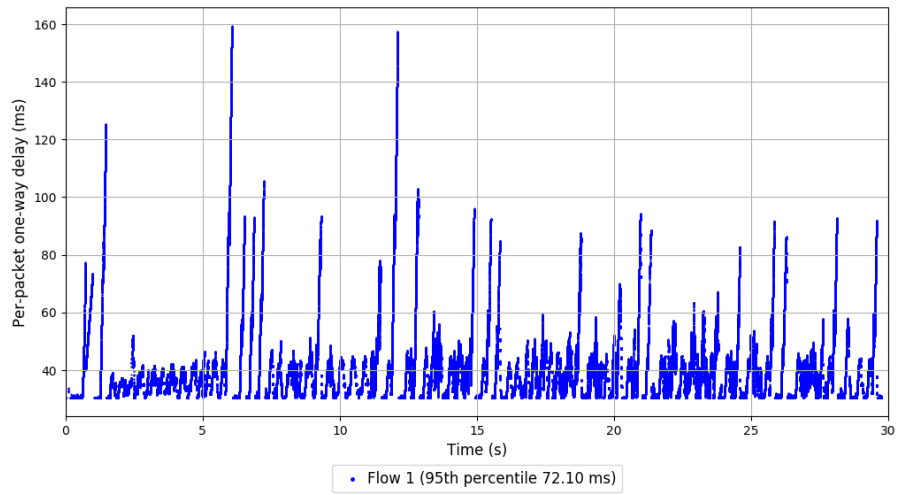
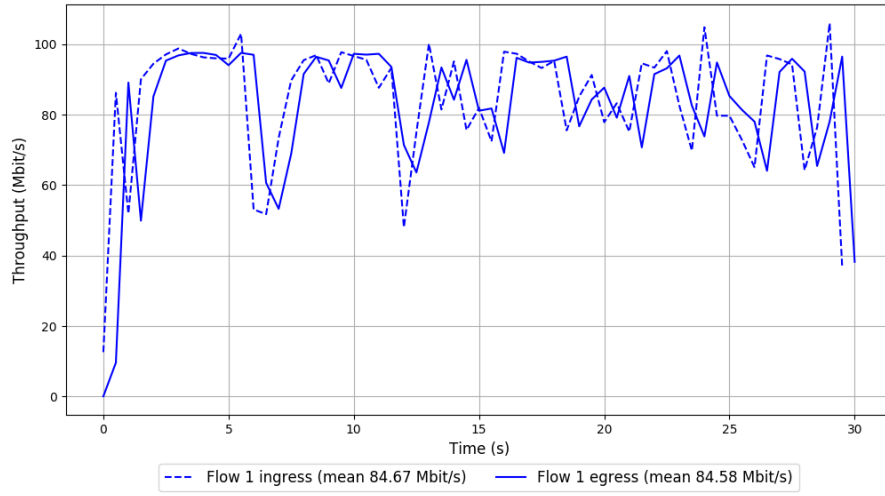
-- Flow 1:

Average throughput: 84.58 Mbit/s

95th percentile per-packet one-way delay: 72.101 ms

Loss rate: 0.33%

Run 5: Report of Muses\_DecisionTreeH0 — Data Link



Run 1: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-18 15:37:41

End at: 2019-09-18 15:38:11

Local clock offset: 0.724 ms

Remote clock offset: 7.692 ms

# Below is generated by plot.py at 2019-09-18 20:36:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.29 Mbit/s

95th percentile per-packet one-way delay: 37.680 ms

Loss rate: 0.24%

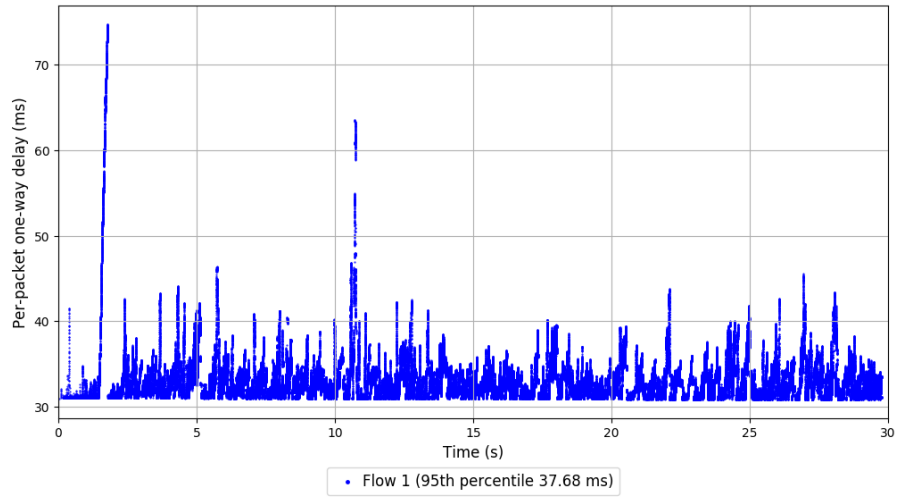
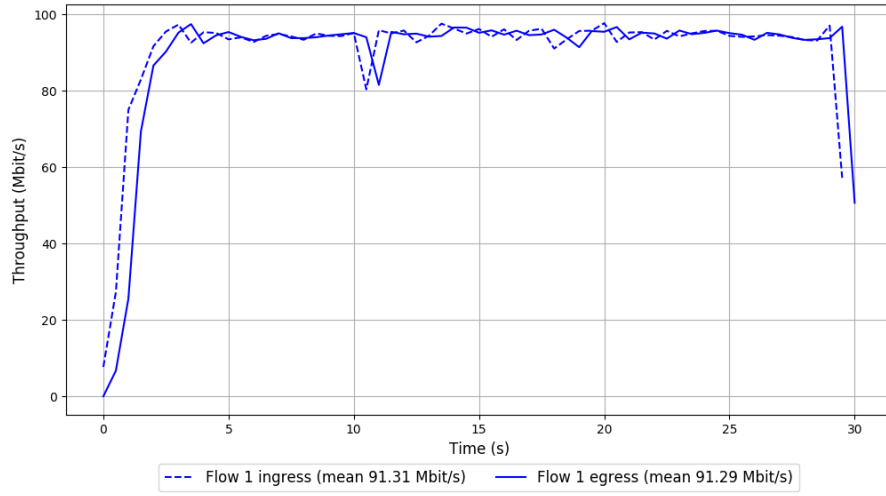
-- Flow 1:

Average throughput: 91.29 Mbit/s

95th percentile per-packet one-way delay: 37.680 ms

Loss rate: 0.24%

Run 1: Report of Muses\_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-18 16:31:58

End at: 2019-09-18 16:32:28

Local clock offset: 0.283 ms

Remote clock offset: 8.154 ms

# Below is generated by plot.py at 2019-09-18 20:36:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.76 Mbit/s

95th percentile per-packet one-way delay: 37.223 ms

Loss rate: 0.24%

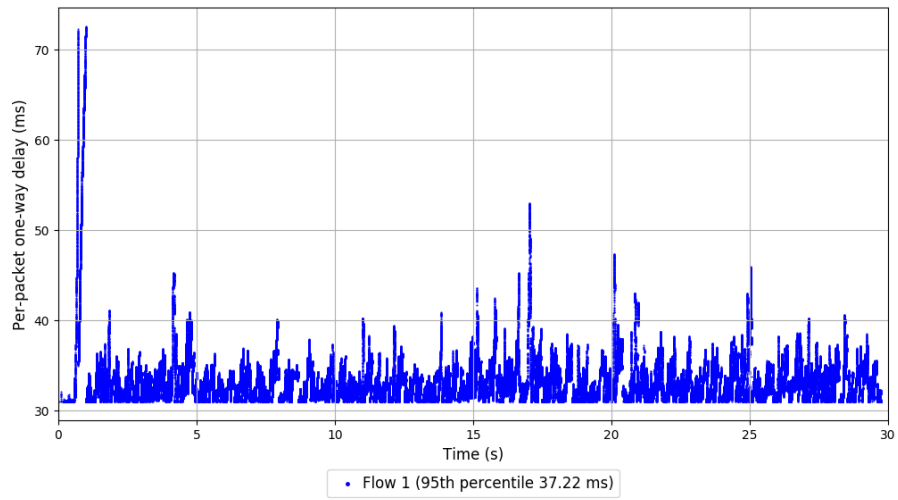
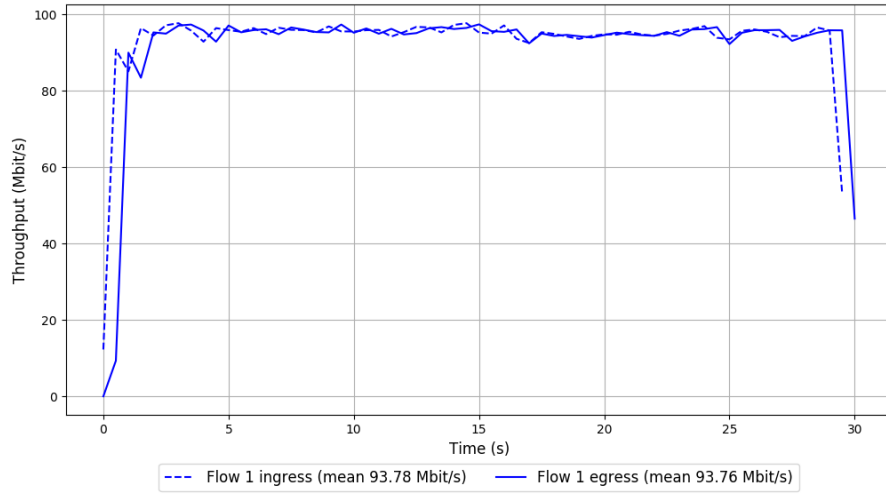
-- Flow 1:

Average throughput: 93.76 Mbit/s

95th percentile per-packet one-way delay: 37.223 ms

Loss rate: 0.24%

Run 2: Report of Muses\_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-18 17:17:15

End at: 2019-09-18 17:17:45

Local clock offset: -2.946 ms

Remote clock offset: 9.124 ms

# Below is generated by plot.py at 2019-09-18 20:36:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.62 Mbit/s

95th percentile per-packet one-way delay: 37.651 ms

Loss rate: 0.24%

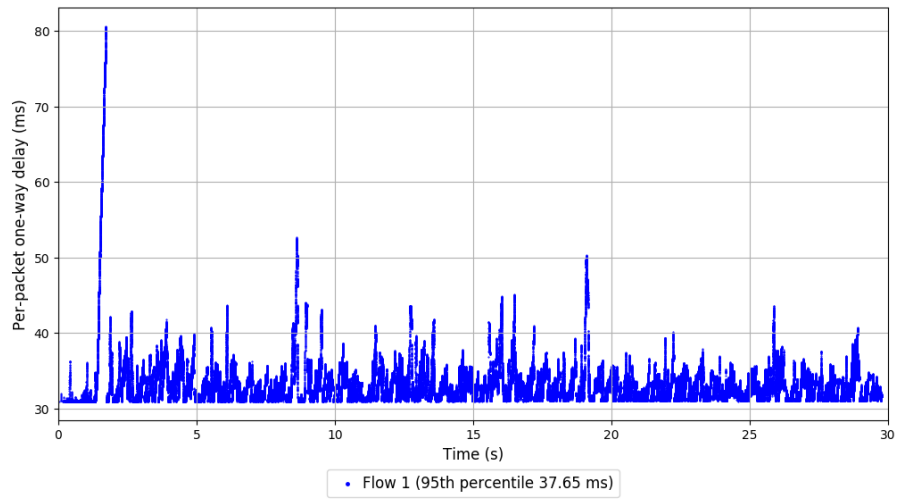
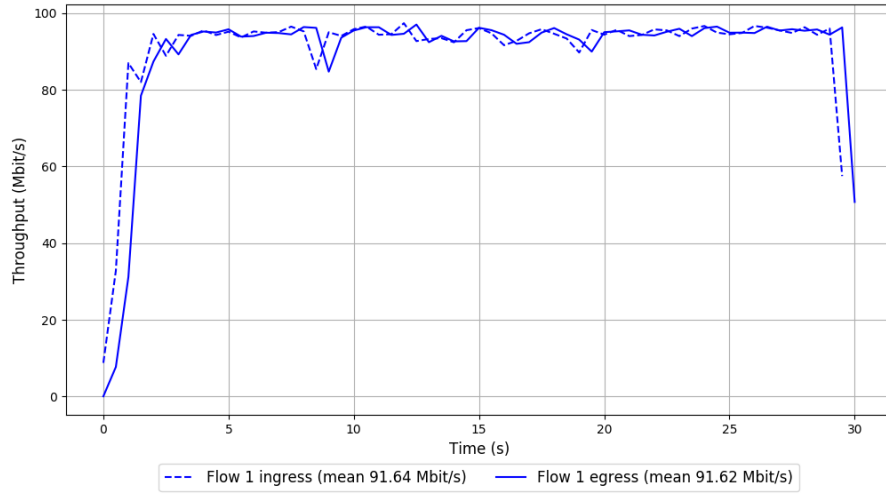
-- Flow 1:

Average throughput: 91.62 Mbit/s

95th percentile per-packet one-way delay: 37.651 ms

Loss rate: 0.24%

Run 3: Report of Muses\_DecisionTreeR0 — Data Link





Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-18 18:24:17

End at: 2019-09-18 18:24:47

Local clock offset: 1.051 ms

Remote clock offset: 9.106 ms

# Below is generated by plot.py at 2019-09-18 20:36:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.16 Mbit/s

95th percentile per-packet one-way delay: 35.270 ms

Loss rate: 0.22%

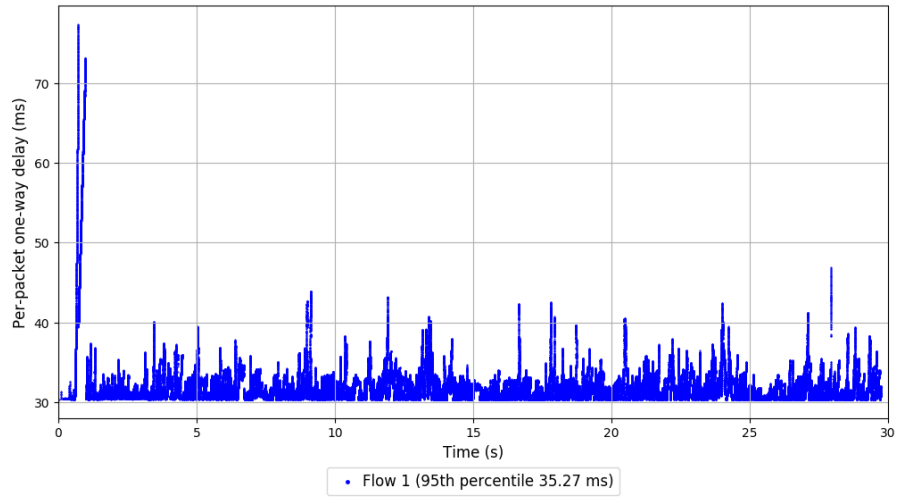
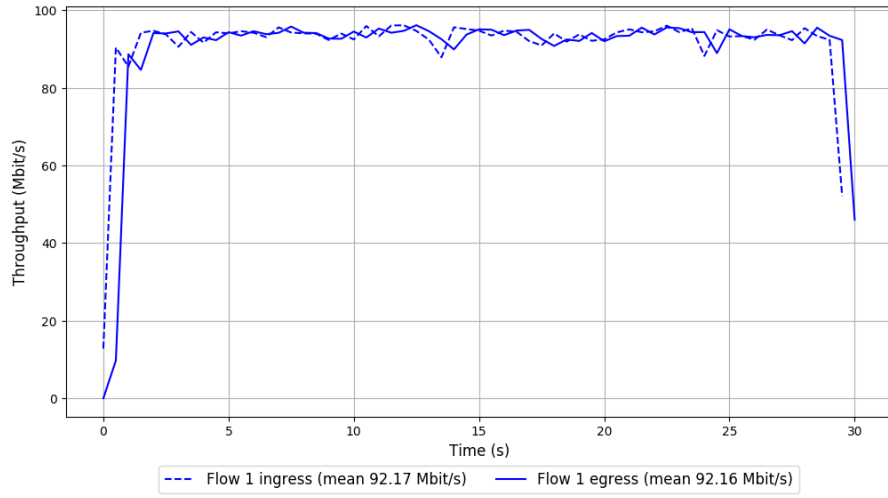
-- Flow 1:

Average throughput: 92.16 Mbit/s

95th percentile per-packet one-way delay: 35.270 ms

Loss rate: 0.22%

Run 4: Report of Muses\_DecisionTreeR0 — Data Link



Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-18 19:25:17

End at: 2019-09-18 19:25:48

Local clock offset: 0.046 ms

Remote clock offset: 8.011 ms

# Below is generated by plot.py at 2019-09-18 20:36:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.64 Mbit/s

95th percentile per-packet one-way delay: 36.608 ms

Loss rate: 0.23%

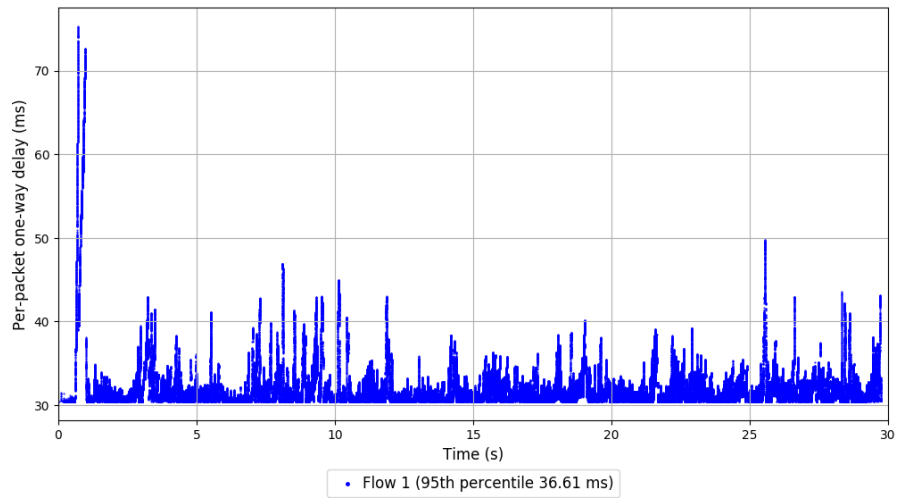
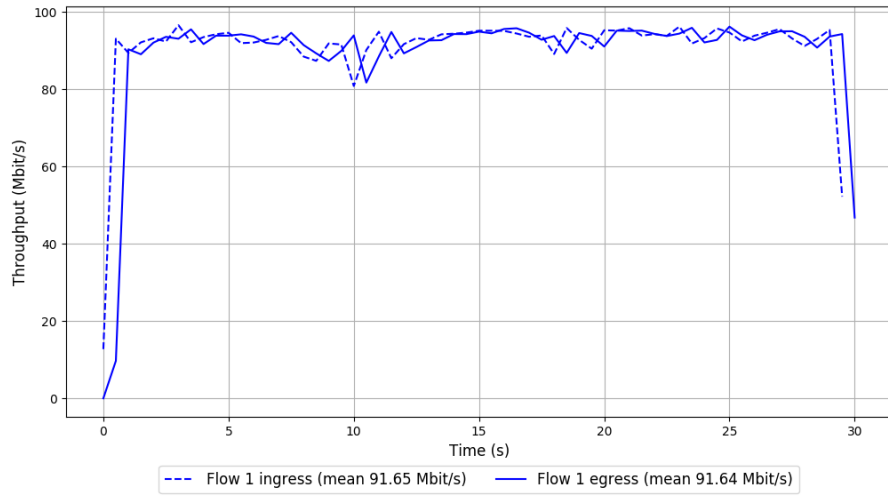
-- Flow 1:

Average throughput: 91.64 Mbit/s

95th percentile per-packet one-way delay: 36.608 ms

Loss rate: 0.23%

Run 5: Report of Muses\_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-09-18 15:35:42

End at: 2019-09-18 15:36:12

Local clock offset: -0.17 ms

Remote clock offset: 7.833 ms

# Below is generated by plot.py at 2019-09-18 20:37:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.31 Mbit/s

95th percentile per-packet one-way delay: 37.110 ms

Loss rate: 0.24%

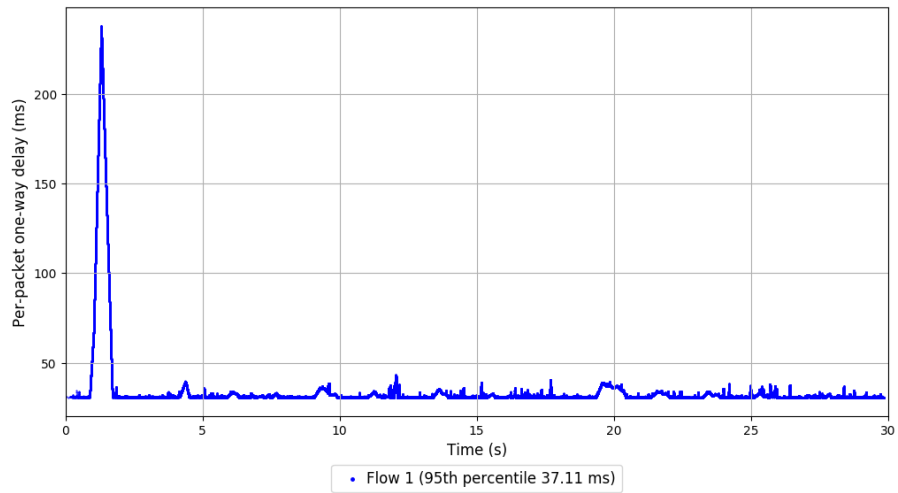
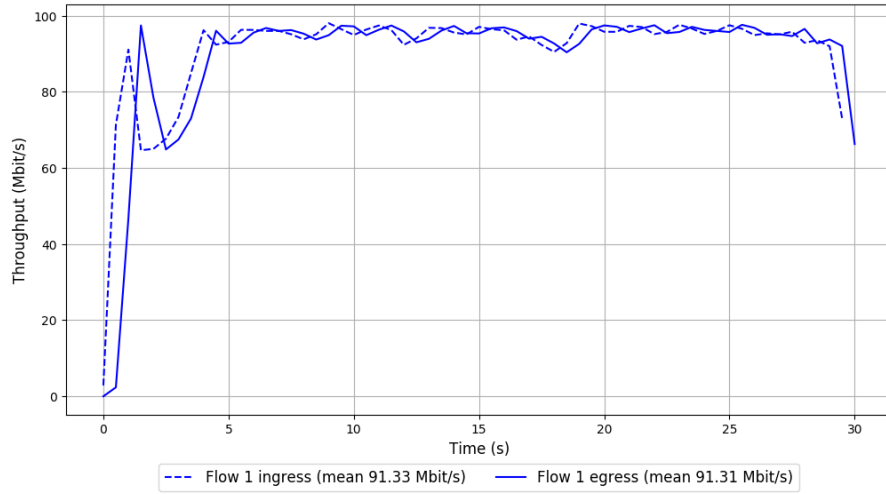
-- Flow 1:

Average throughput: 91.31 Mbit/s

95th percentile per-packet one-way delay: 37.110 ms

Loss rate: 0.24%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-09-18 16:30:23

End at: 2019-09-18 16:30:53

Local clock offset: 0.267 ms

Remote clock offset: 8.077 ms

# Below is generated by plot.py at 2019-09-18 20:37:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.73 Mbit/s

95th percentile per-packet one-way delay: 38.521 ms

Loss rate: 0.26%

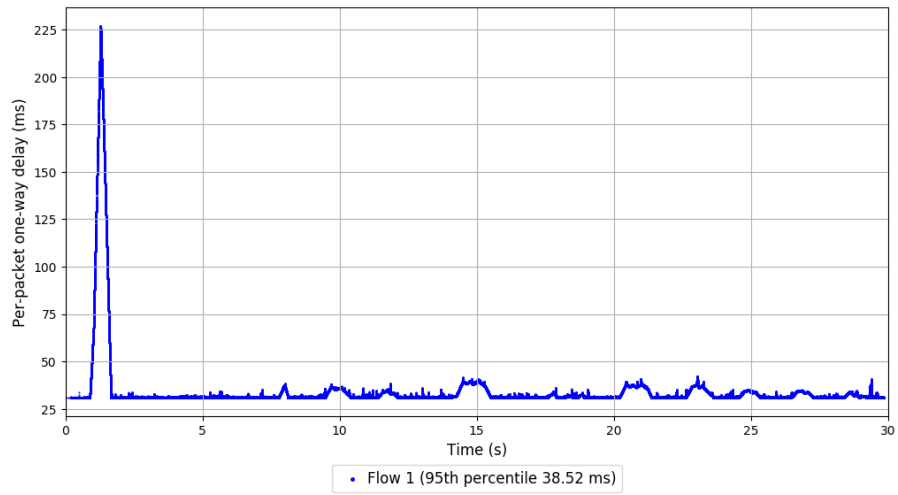
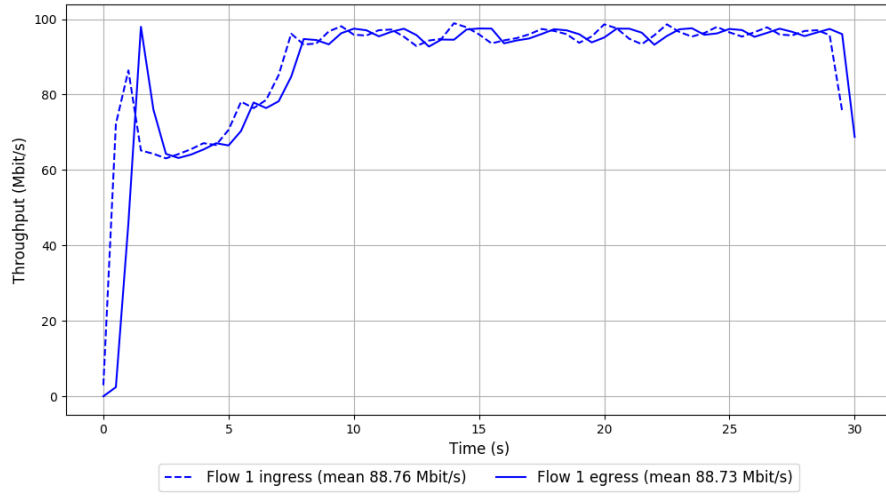
-- Flow 1:

Average throughput: 88.73 Mbit/s

95th percentile per-packet one-way delay: 38.521 ms

Loss rate: 0.26%

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





Run 3: Statistics of PCC-Allegro

Start at: 2019-09-18 17:14:54

End at: 2019-09-18 17:15:24

Local clock offset: -2.688 ms

Remote clock offset: 9.151 ms

# Below is generated by plot.py at 2019-09-18 20:37:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.47 Mbit/s

95th percentile per-packet one-way delay: 64.983 ms

Loss rate: 0.27%

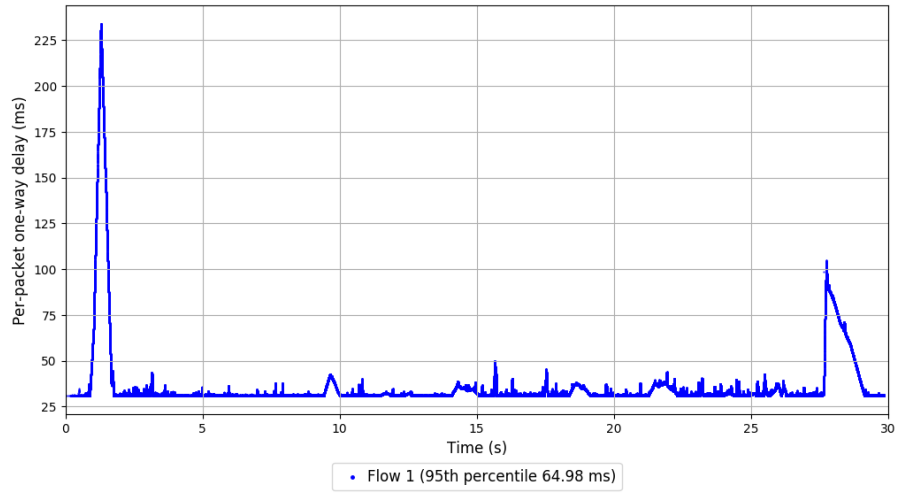
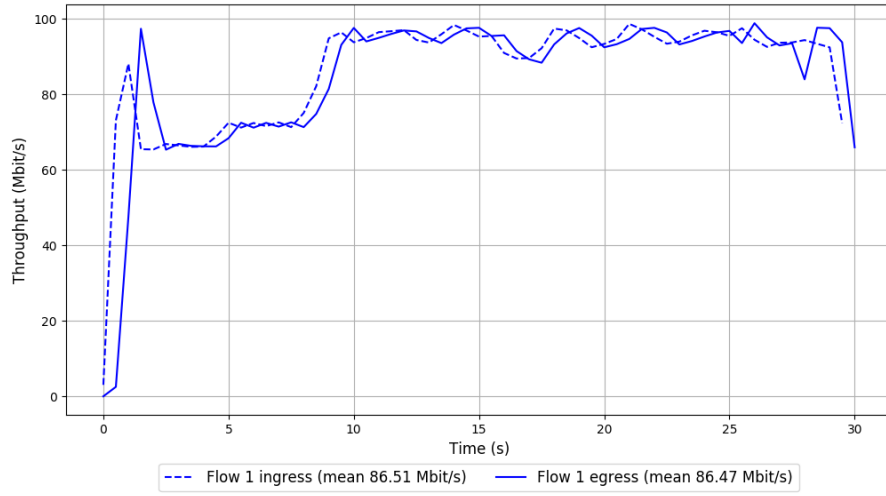
-- Flow 1:

Average throughput: 86.47 Mbit/s

95th percentile per-packet one-way delay: 64.983 ms

Loss rate: 0.27%

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



Run 4: Statistics of PCC-Allegro

Start at: 2019-09-18 18:22:17

End at: 2019-09-18 18:22:47

Local clock offset: 0.954 ms

Remote clock offset: 9.246 ms

# Below is generated by plot.py at 2019-09-18 20:37:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.62 Mbit/s

95th percentile per-packet one-way delay: 38.925 ms

Loss rate: 0.25%

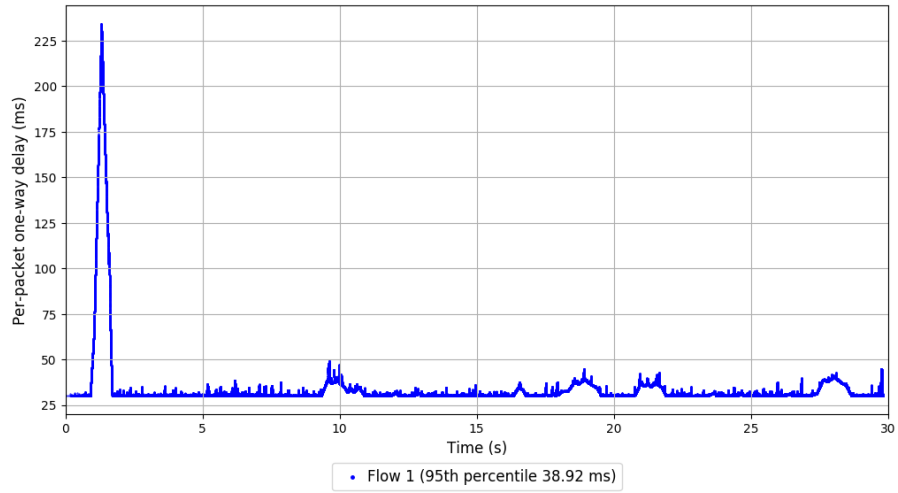
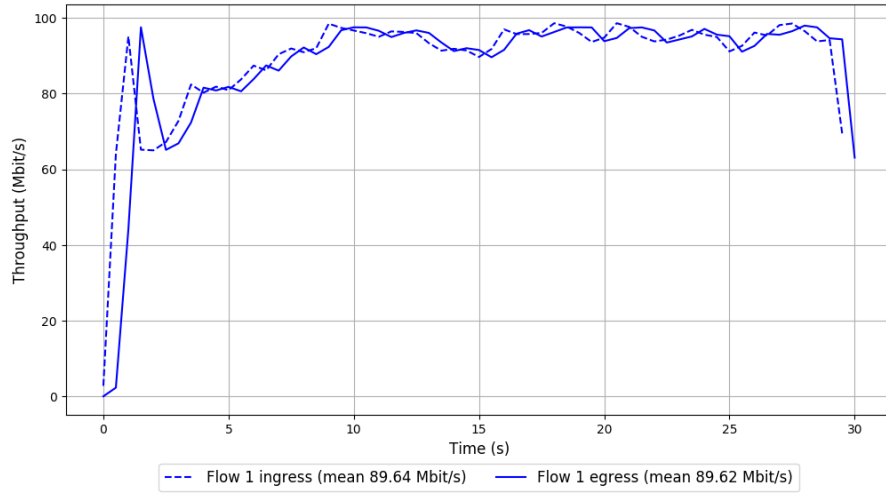
-- Flow 1:

Average throughput: 89.62 Mbit/s

95th percentile per-packet one-way delay: 38.925 ms

Loss rate: 0.25%

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



Run 5: Statistics of PCC-Allegro

Start at: 2019-09-18 19:23:29

End at: 2019-09-18 19:23:59

Local clock offset: -0.022 ms

Remote clock offset: 8.139 ms

# Below is generated by plot.py at 2019-09-18 20:37:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.56 Mbit/s

95th percentile per-packet one-way delay: 35.038 ms

Loss rate: 0.38%

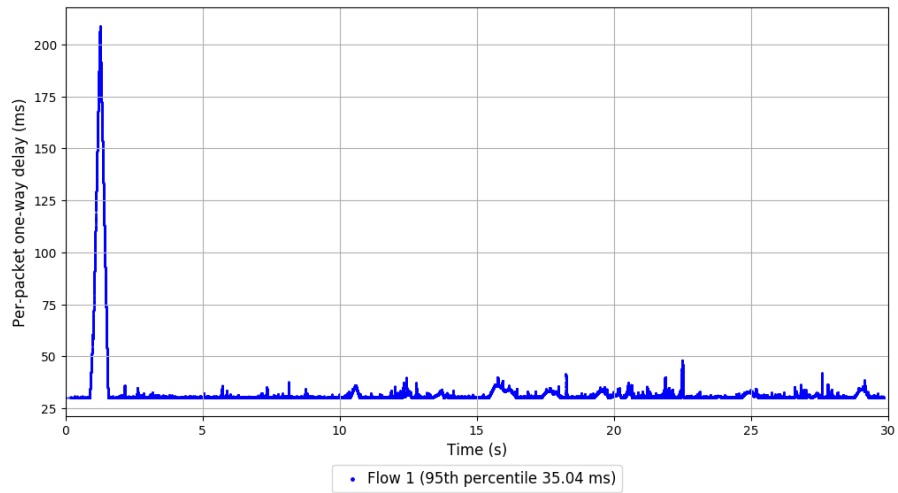
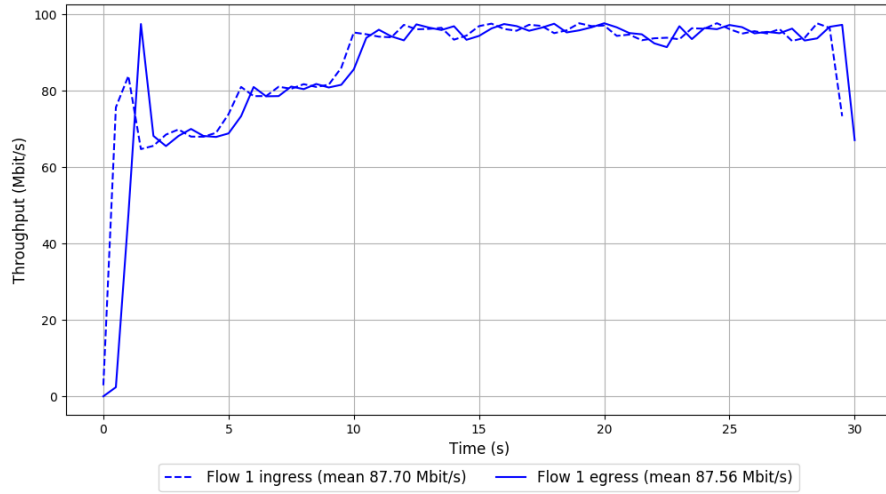
-- Flow 1:

Average throughput: 87.56 Mbit/s

95th percentile per-packet one-way delay: 35.038 ms

Loss rate: 0.38%

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



Run 1: Statistics of PCC-Expr

Start at: 2019-09-18 16:22:50

End at: 2019-09-18 16:23:20

Local clock offset: 0.477 ms

Remote clock offset: 7.991 ms

# Below is generated by plot.py at 2019-09-18 20:38:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.93 Mbit/s

95th percentile per-packet one-way delay: 486.115 ms

Loss rate: 0.34%

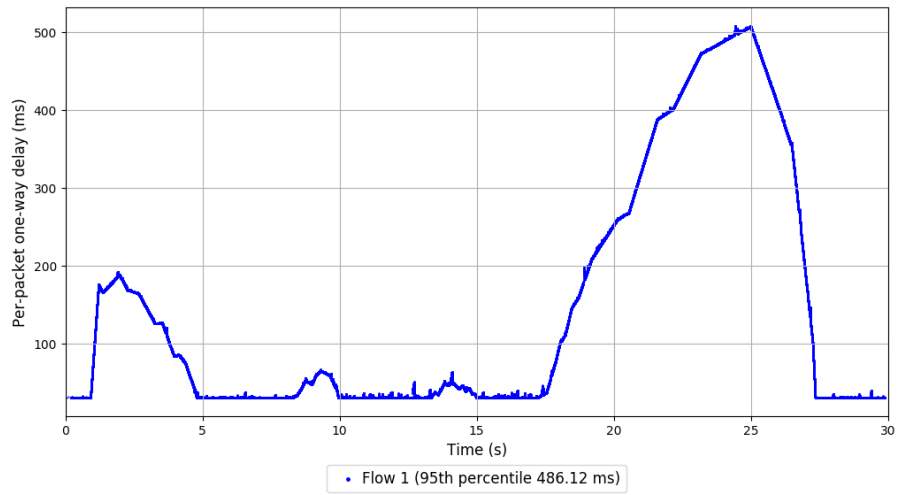
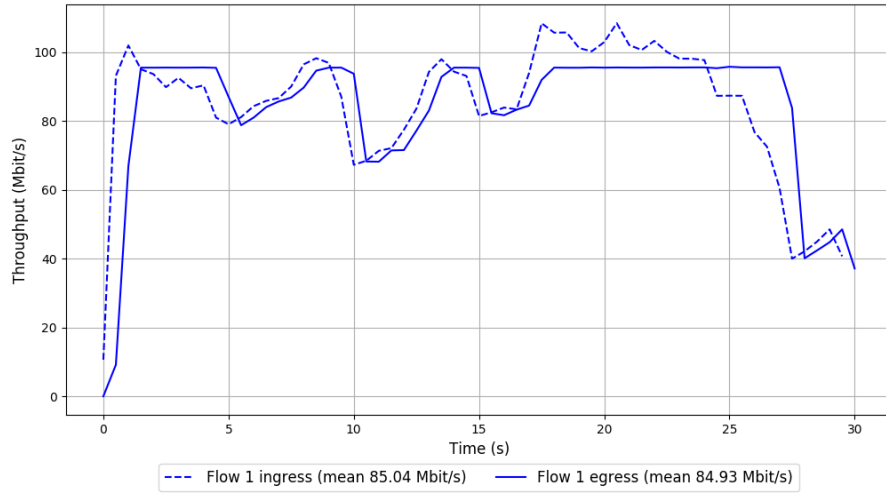
-- Flow 1:

Average throughput: 84.93 Mbit/s

95th percentile per-packet one-way delay: 486.115 ms

Loss rate: 0.34%

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





Run 2: Statistics of PCC-Expr

Start at: 2019-09-18 17:07:12

End at: 2019-09-18 17:07:42

Local clock offset: -1.594 ms

Remote clock offset: 9.106 ms

# Below is generated by plot.py at 2019-09-18 20:38:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.69 Mbit/s

95th percentile per-packet one-way delay: 149.117 ms

Loss rate: 0.31%

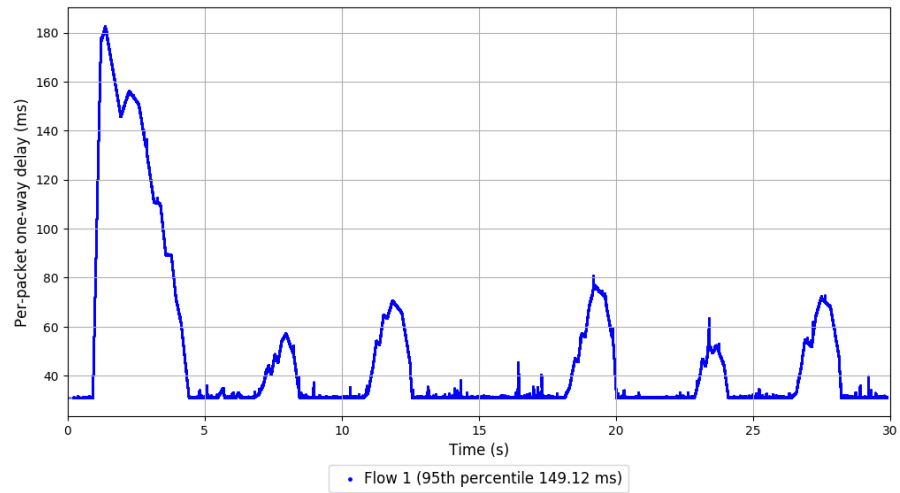
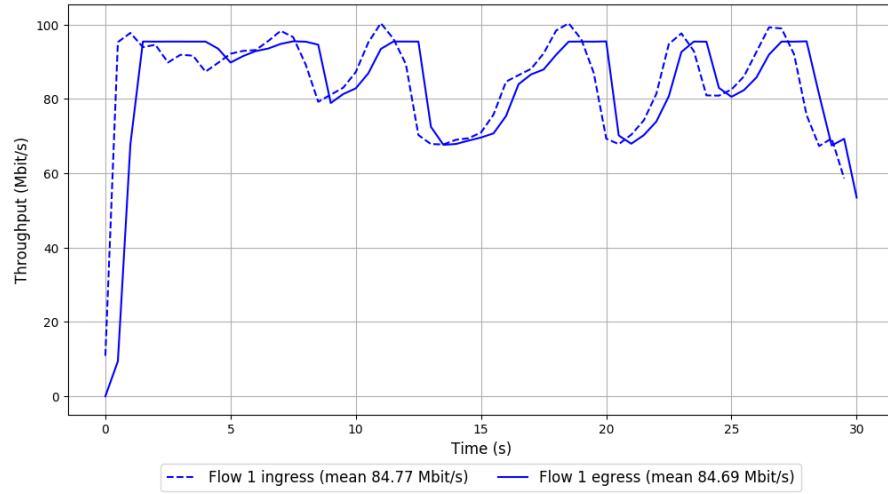
-- Flow 1:

Average throughput: 84.69 Mbit/s

95th percentile per-packet one-way delay: 149.117 ms

Loss rate: 0.31%

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



Run 3: Statistics of PCC-Expr

Start at: 2019-09-18 18:10:58

End at: 2019-09-18 18:11:28

Local clock offset: -0.258 ms

Remote clock offset: 9.232 ms

# Below is generated by plot.py at 2019-09-18 20:38:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.23 Mbit/s

95th percentile per-packet one-way delay: 150.892 ms

Loss rate: 0.29%

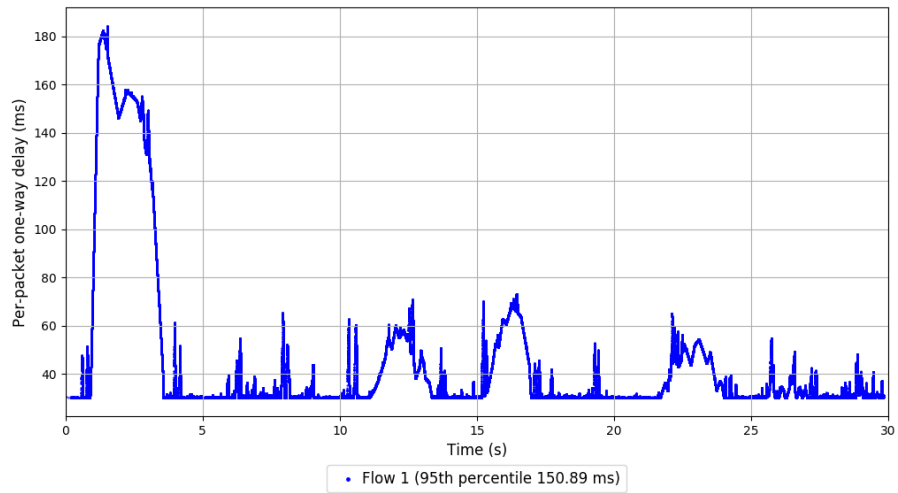
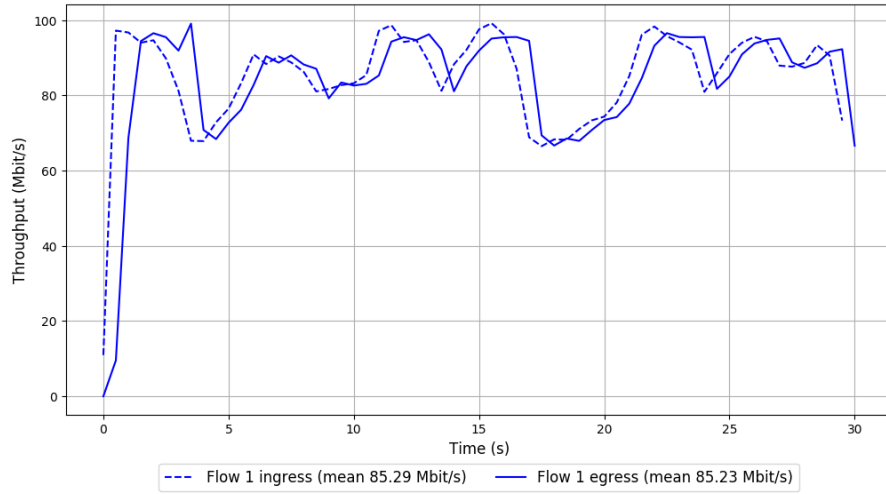
-- Flow 1:

Average throughput: 85.23 Mbit/s

95th percentile per-packet one-way delay: 150.892 ms

Loss rate: 0.29%

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



Run 4: Statistics of PCC-Expr

Start at: 2019-09-18 19:14:39

End at: 2019-09-18 19:15:09

Local clock offset: -0.487 ms

Remote clock offset: 8.232 ms

# Below is generated by plot.py at 2019-09-18 20:39:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 82.16 Mbit/s

95th percentile per-packet one-way delay: 72.105 ms

Loss rate: 0.36%

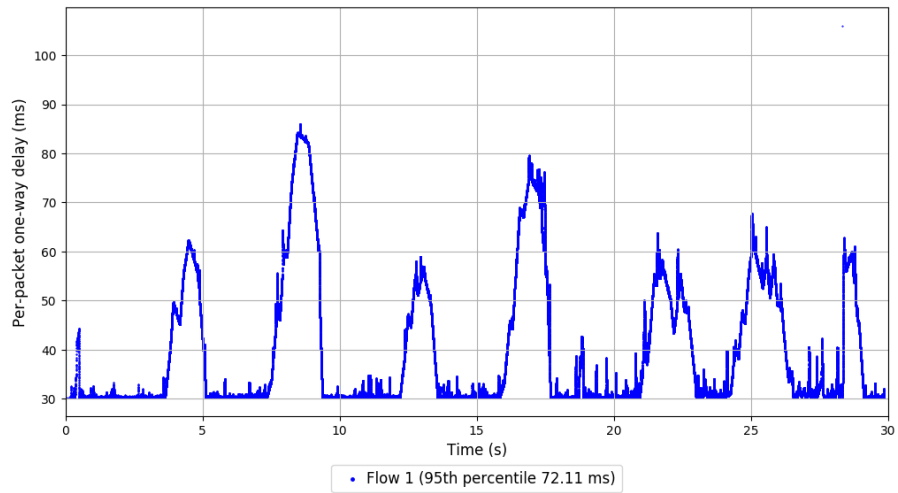
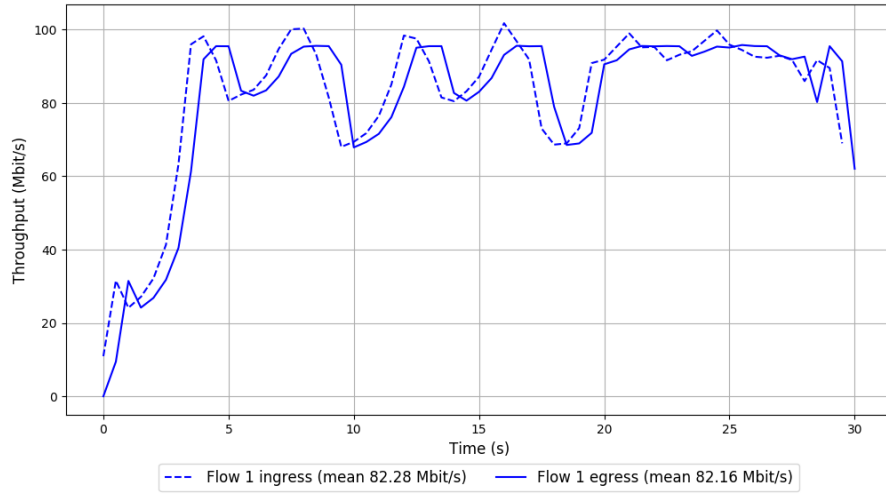
-- Flow 1:

Average throughput: 82.16 Mbit/s

95th percentile per-packet one-way delay: 72.105 ms

Loss rate: 0.36%

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



Run 5: Statistics of PCC-Expr

Start at: 2019-09-18 20:22:18

End at: 2019-09-18 20:22:48

Local clock offset: -2.87 ms

Remote clock offset: 9.023 ms

# Below is generated by plot.py at 2019-09-18 20:39:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 81.26 Mbit/s

95th percentile per-packet one-way delay: 343.836 ms

Loss rate: 2.14%

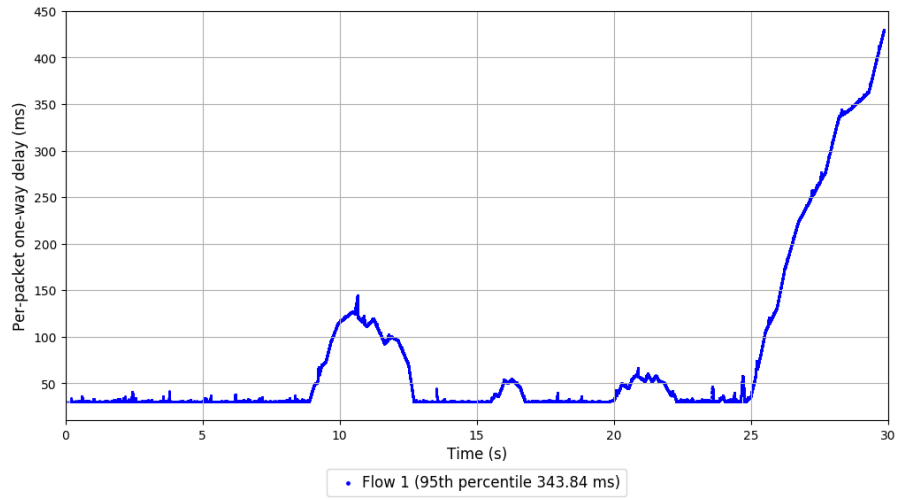
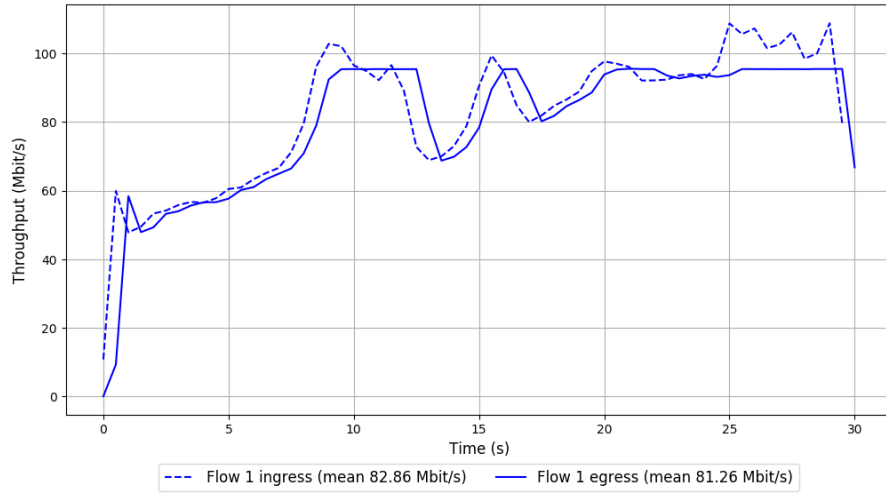
-- Flow 1:

Average throughput: 81.26 Mbit/s

95th percentile per-packet one-way delay: 343.836 ms

Loss rate: 2.14%

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





Run 1: Statistics of QUIC Cubic

Start at: 2019-09-18 15:33:32

End at: 2019-09-18 15:34:02

Local clock offset: -1.301 ms

Remote clock offset: 7.998 ms

# Below is generated by plot.py at 2019-09-18 20:39:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 76.12 Mbit/s

95th percentile per-packet one-way delay: 50.350 ms

Loss rate: 0.28%

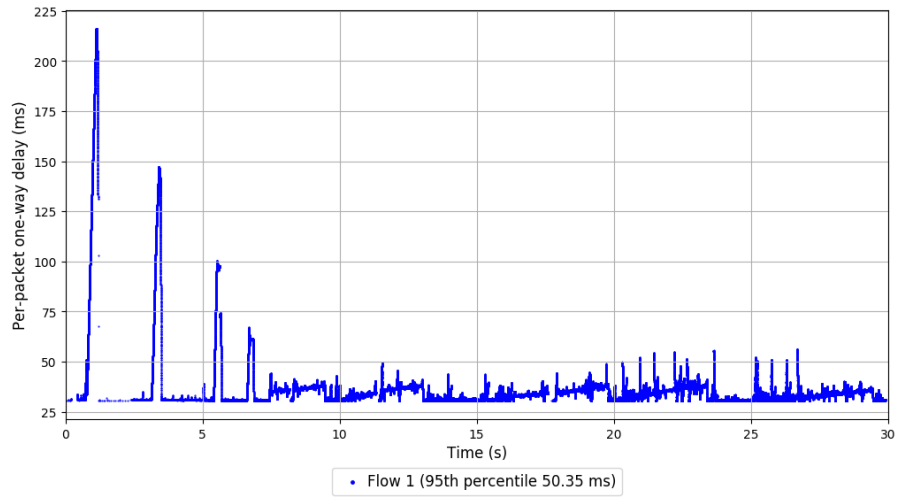
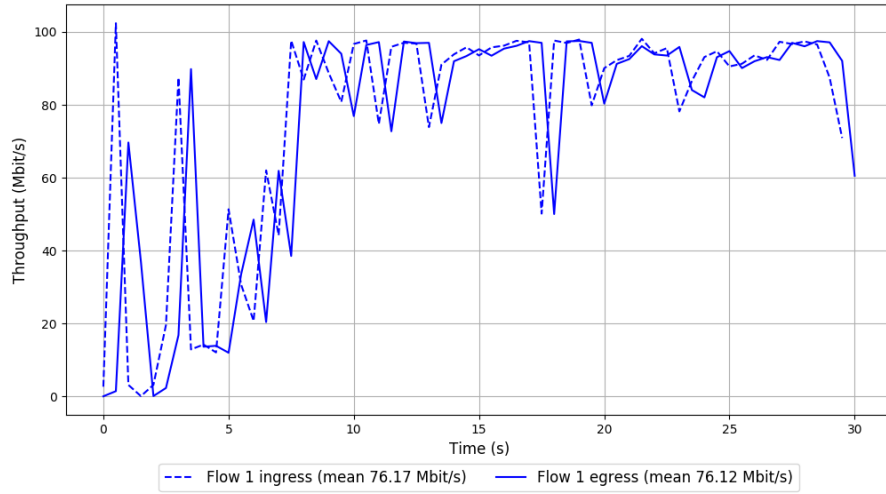
-- Flow 1:

Average throughput: 76.12 Mbit/s

95th percentile per-packet one-way delay: 50.350 ms

Loss rate: 0.28%

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



Run 2: Statistics of QUIC Cubic

Start at: 2019-09-18 16:28:42

End at: 2019-09-18 16:29:12

Local clock offset: 0.347 ms

Remote clock offset: 8.079 ms

# Below is generated by plot.py at 2019-09-18 20:39:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 76.47 Mbit/s

95th percentile per-packet one-way delay: 53.870 ms

Loss rate: 0.31%

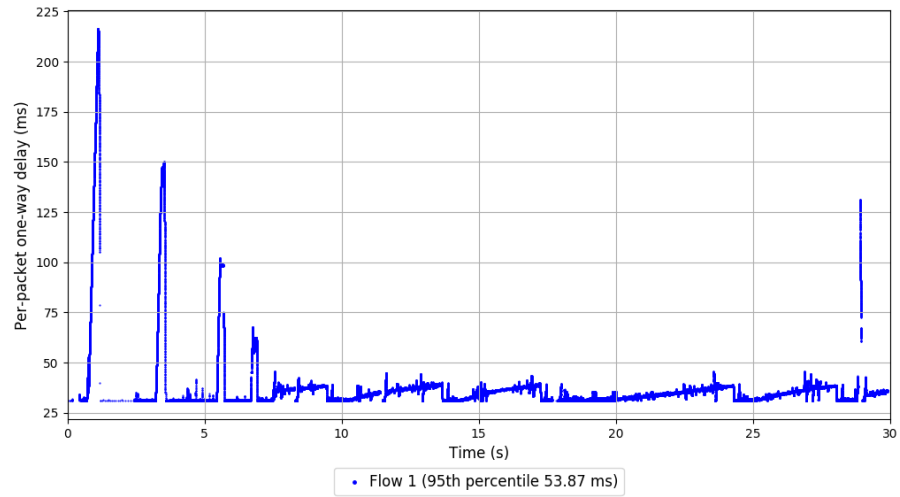
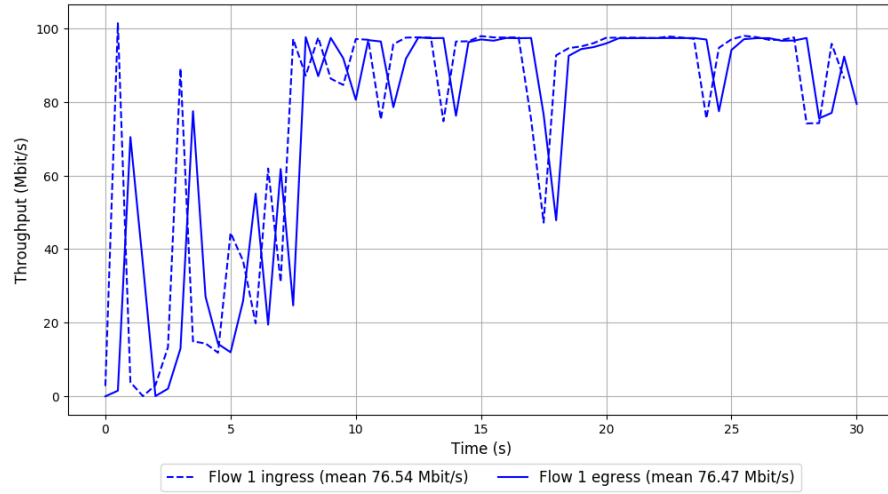
-- Flow 1:

Average throughput: 76.47 Mbit/s

95th percentile per-packet one-way delay: 53.870 ms

Loss rate: 0.31%

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



Run 3: Statistics of QUIC Cubic

Start at: 2019-09-18 17:12:51

End at: 2019-09-18 17:13:21

Local clock offset: -2.46 ms

Remote clock offset: 9.048 ms

# Below is generated by plot.py at 2019-09-18 20:39:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 76.05 Mbit/s

95th percentile per-packet one-way delay: 59.074 ms

Loss rate: 0.30%

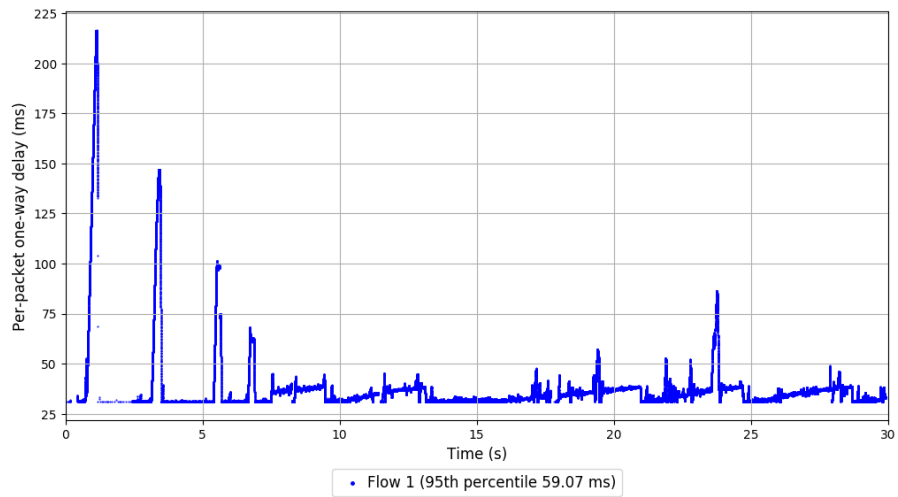
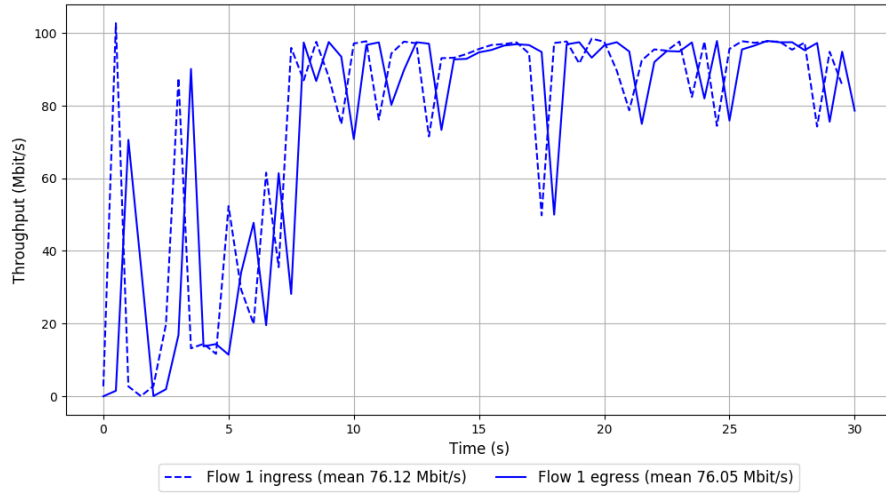
-- Flow 1:

Average throughput: 76.05 Mbit/s

95th percentile per-packet one-way delay: 59.074 ms

Loss rate: 0.30%

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



Run 4: Statistics of QUIC Cubic

Start at: 2019-09-18 18:19:59

End at: 2019-09-18 18:20:29

Local clock offset: 0.828 ms

Remote clock offset: 9.233 ms

# Below is generated by plot.py at 2019-09-18 20:39:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 82.13 Mbit/s

95th percentile per-packet one-way delay: 48.080 ms

Loss rate: 0.27%

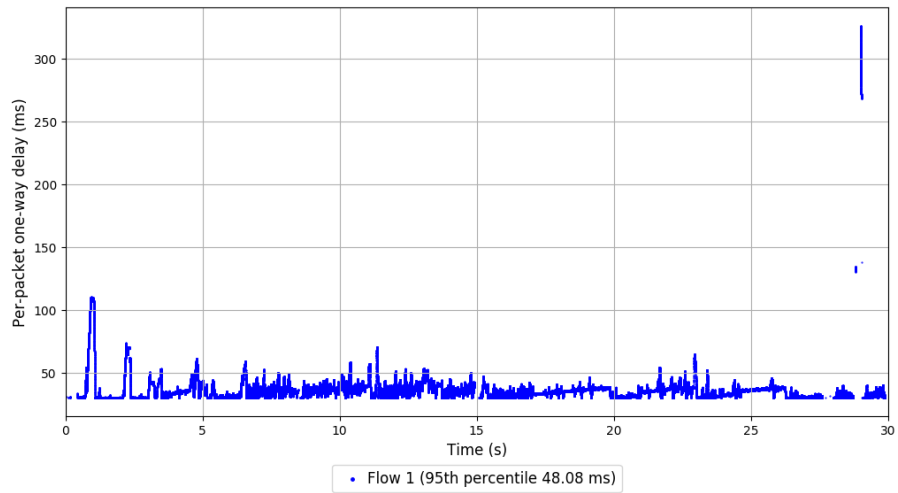
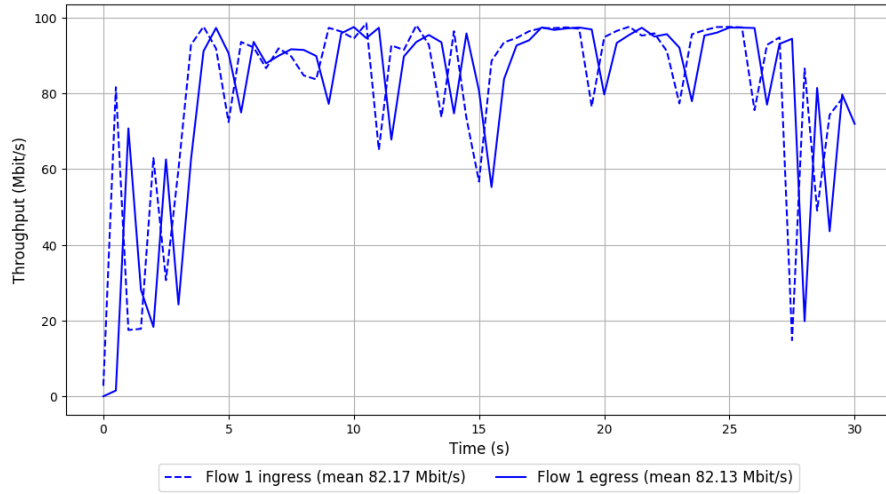
-- Flow 1:

Average throughput: 82.13 Mbit/s

95th percentile per-packet one-way delay: 48.080 ms

Loss rate: 0.27%

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





Run 5: Statistics of QUIC Cubic

Start at: 2019-09-18 19:21:23

End at: 2019-09-18 19:21:53

Local clock offset: -0.102 ms

Remote clock offset: 8.23 ms

# Below is generated by plot.py at 2019-09-18 20:39:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 74.38 Mbit/s

95th percentile per-packet one-way delay: 59.439 ms

Loss rate: 0.08%

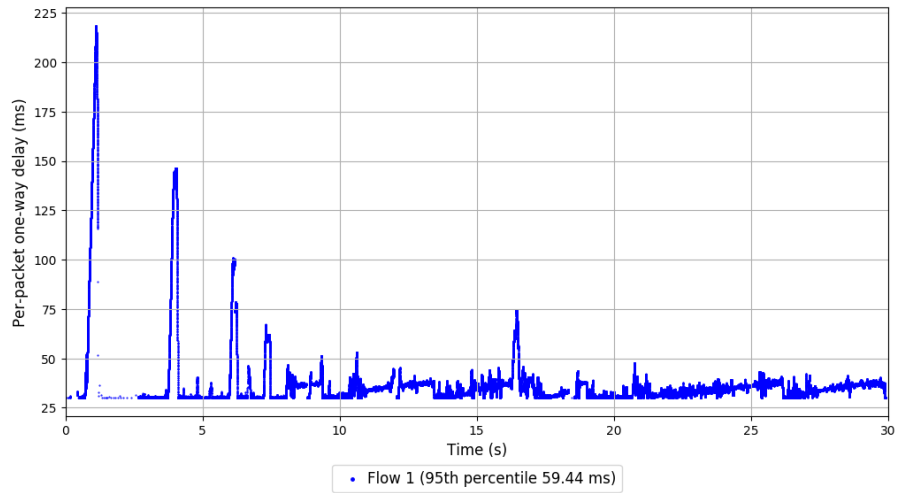
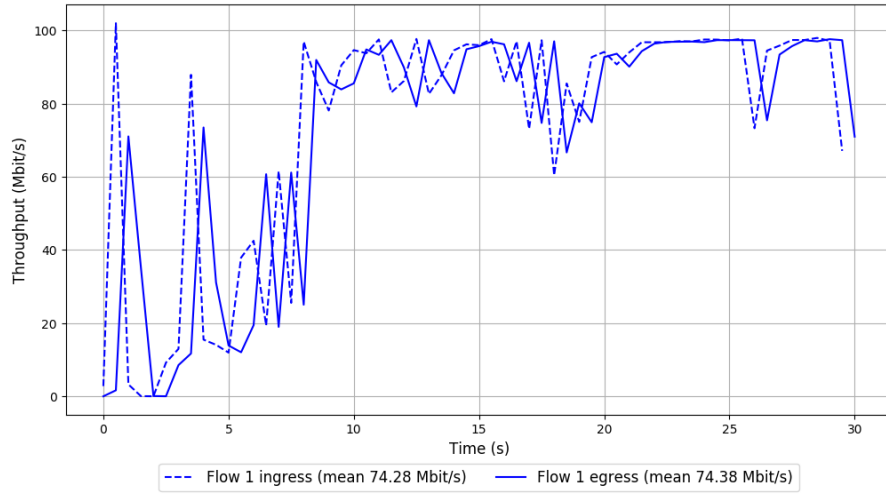
-- Flow 1:

Average throughput: 74.38 Mbit/s

95th percentile per-packet one-way delay: 59.439 ms

Loss rate: 0.08%

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



Run 1: Statistics of SCReAM

Start at: 2019-09-18 15:30:03

End at: 2019-09-18 15:30:33

Local clock offset: -3.485 ms

Remote clock offset: 8.384 ms

# Below is generated by plot.py at 2019-09-18 20:39:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 33.434 ms

Loss rate: 0.26%

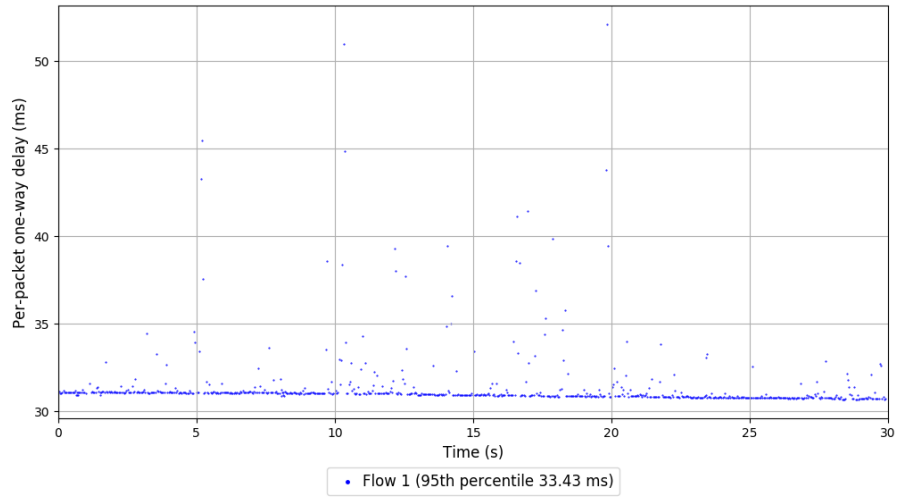
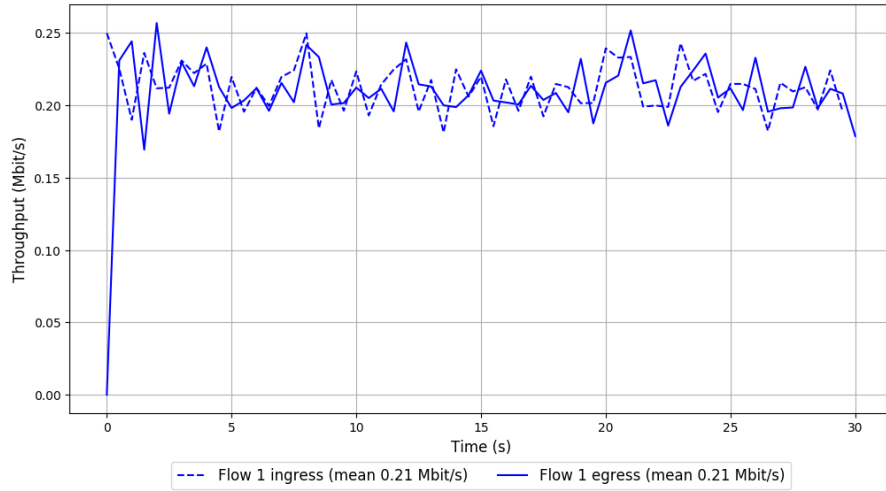
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 33.434 ms

Loss rate: 0.26%

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



Run 2: Statistics of SCReAM

Start at: 2019-09-18 16:25:16

End at: 2019-09-18 16:25:46

Local clock offset: 0.39 ms

Remote clock offset: 8.109 ms

# Below is generated by plot.py at 2019-09-18 20:39:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 33.549 ms

Loss rate: 0.26%

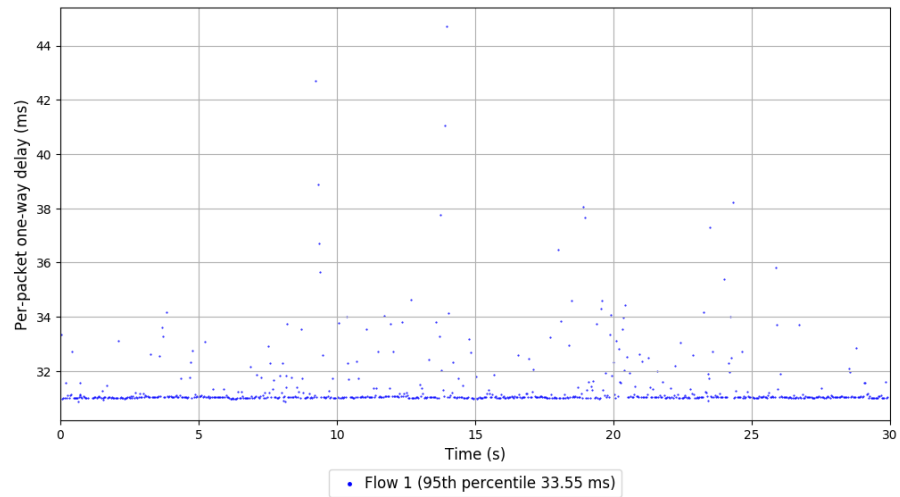
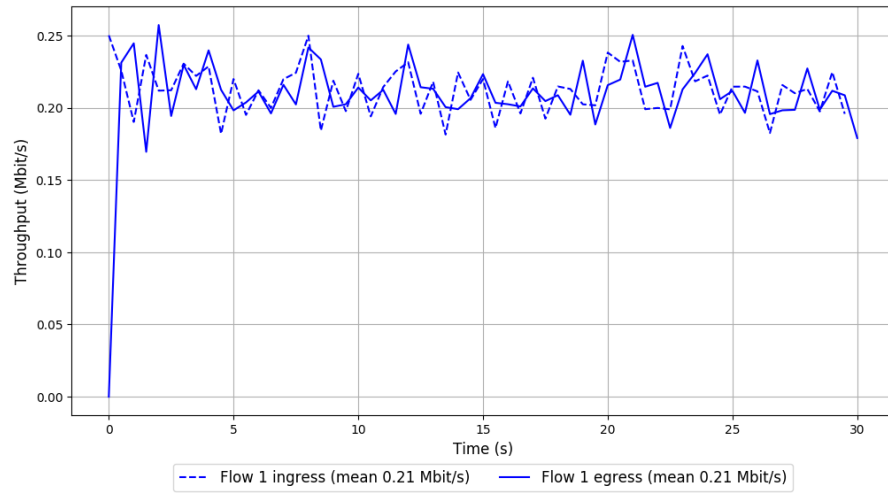
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 33.549 ms

Loss rate: 0.26%

## Run 2: Report of SCReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-09-18 17:09:24

End at: 2019-09-18 17:09:54

Local clock offset: -1.968 ms

Remote clock offset: 9.201 ms

# Below is generated by plot.py at 2019-09-18 20:39:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 31.391 ms

Loss rate: 0.26%

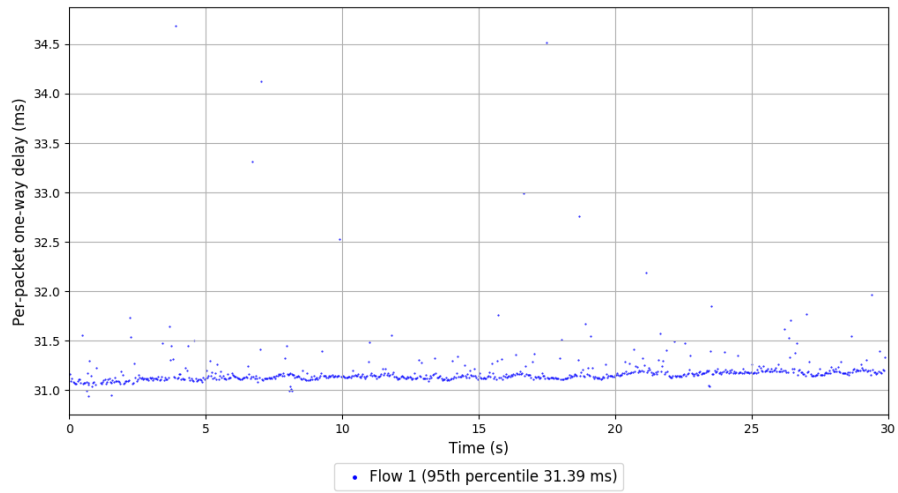
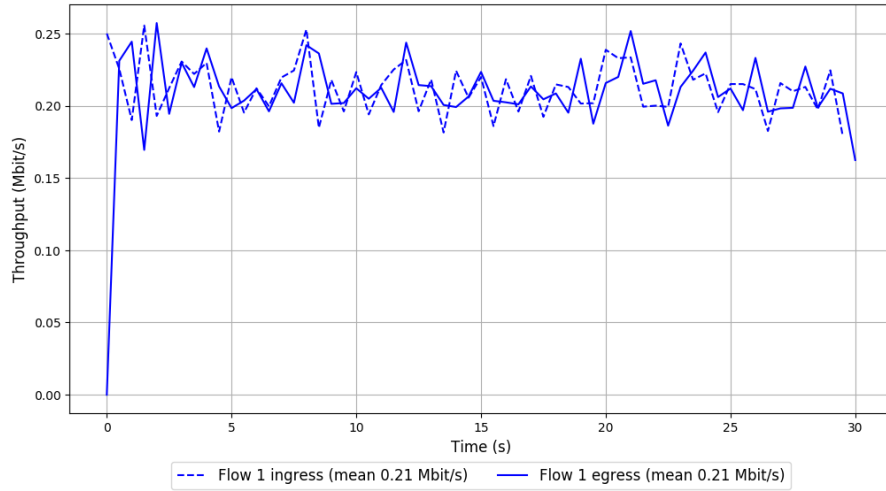
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 31.391 ms

Loss rate: 0.26%

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





Run 4: Statistics of SCReAM

Start at: 2019-09-18 18:16:29

End at: 2019-09-18 18:16:59

Local clock offset: 0.429 ms

Remote clock offset: 9.269 ms

# Below is generated by plot.py at 2019-09-18 20:39:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 31.043 ms

Loss rate: 0.26%

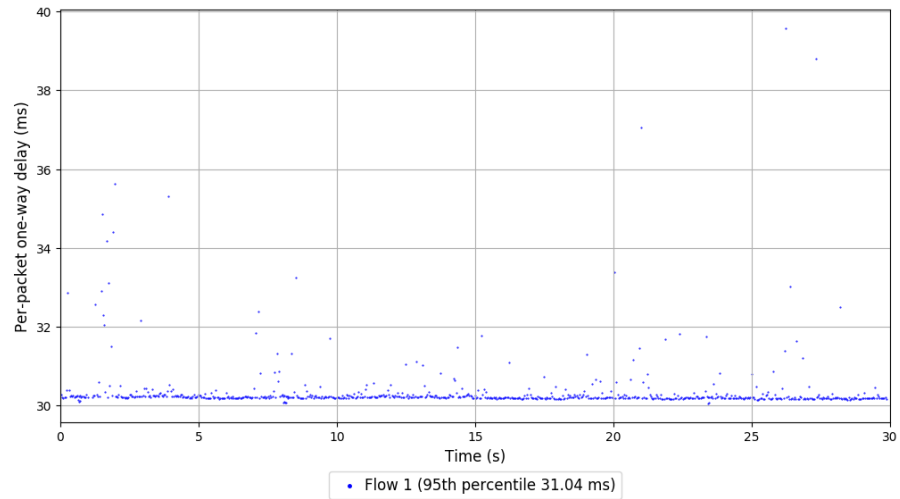
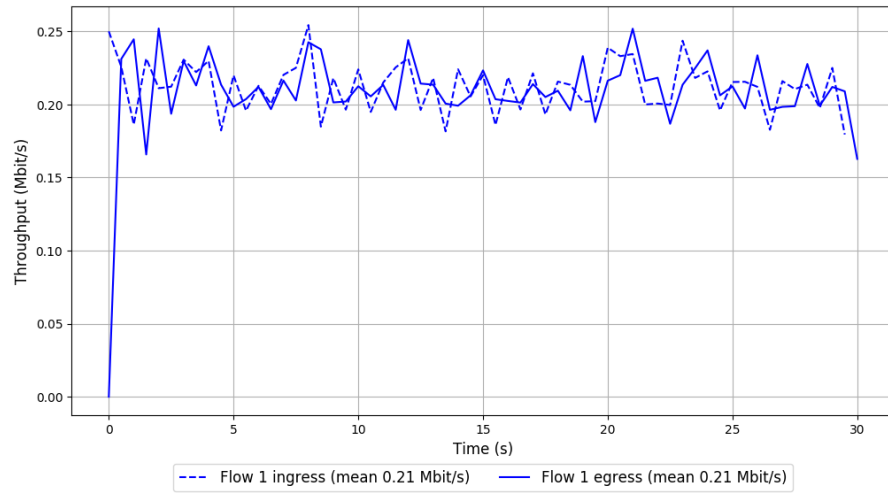
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 31.043 ms

Loss rate: 0.26%

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



Run 5: Statistics of SCReAM

Start at: 2019-09-18 19:17:51

End at: 2019-09-18 19:18:21

Local clock offset: -0.271 ms

Remote clock offset: 8.234 ms

# Below is generated by plot.py at 2019-09-18 20:39:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.939 ms

Loss rate: 0.26%

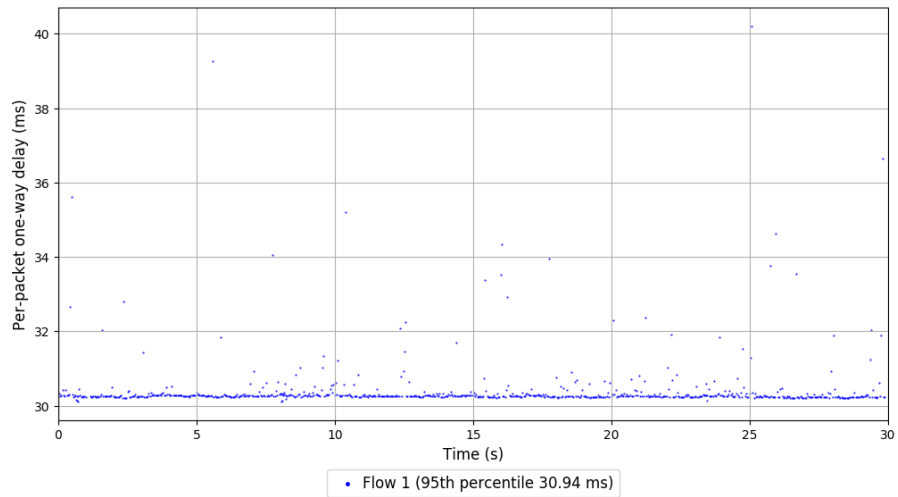
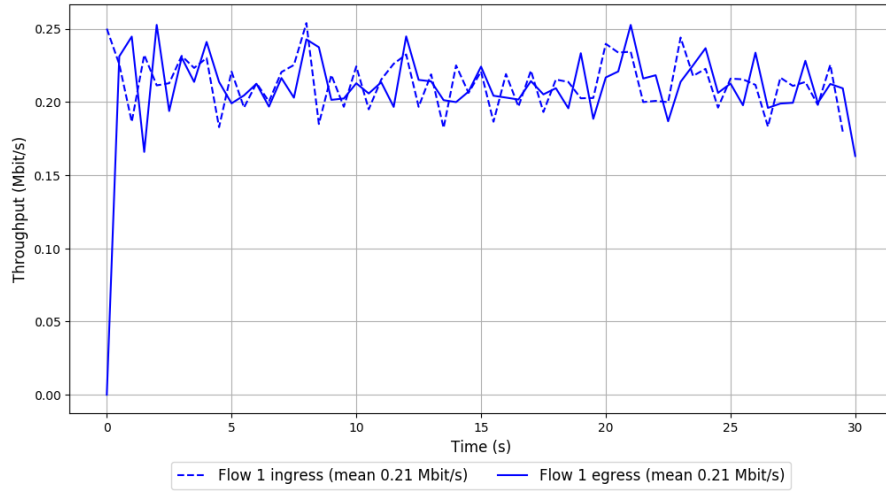
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.939 ms

Loss rate: 0.26%

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



Run 1: Statistics of Sprout

Start at: 2019-09-18 15:31:10

End at: 2019-09-18 15:31:40

Local clock offset: -3.081 ms

Remote clock offset: 8.163 ms

# Below is generated by plot.py at 2019-09-18 20:39:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.94 Mbit/s

95th percentile per-packet one-way delay: 38.140 ms

Loss rate: 0.20%

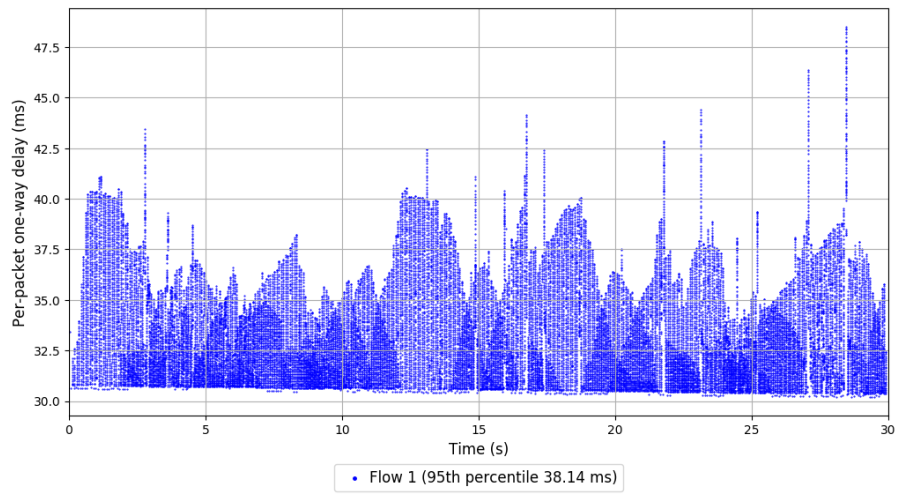
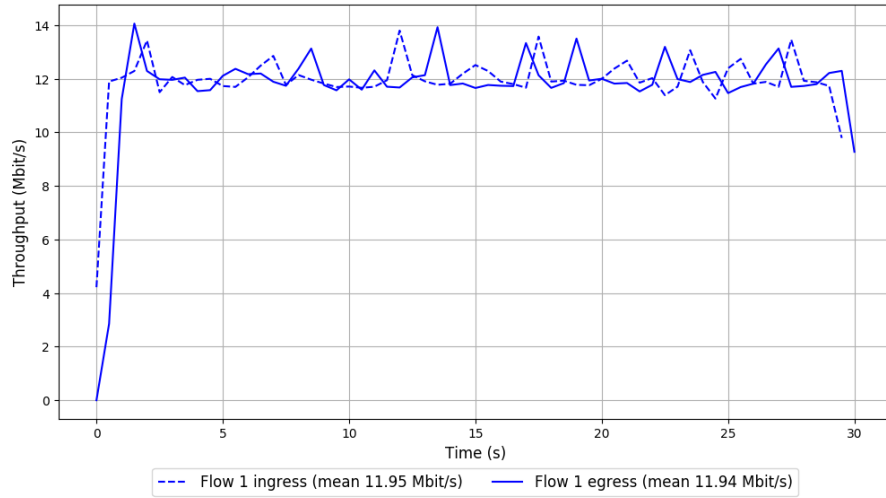
-- Flow 1:

Average throughput: 11.94 Mbit/s

95th percentile per-packet one-way delay: 38.140 ms

Loss rate: 0.20%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-09-18 16:26:22

End at: 2019-09-18 16:26:52

Local clock offset: 0.364 ms

Remote clock offset: 8.192 ms

# Below is generated by plot.py at 2019-09-18 20:39:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.92 Mbit/s

95th percentile per-packet one-way delay: 38.172 ms

Loss rate: 0.27%

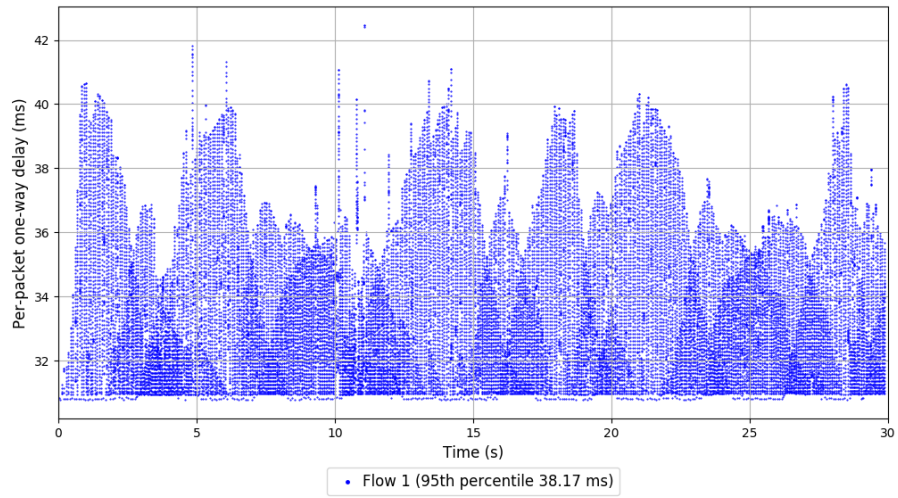
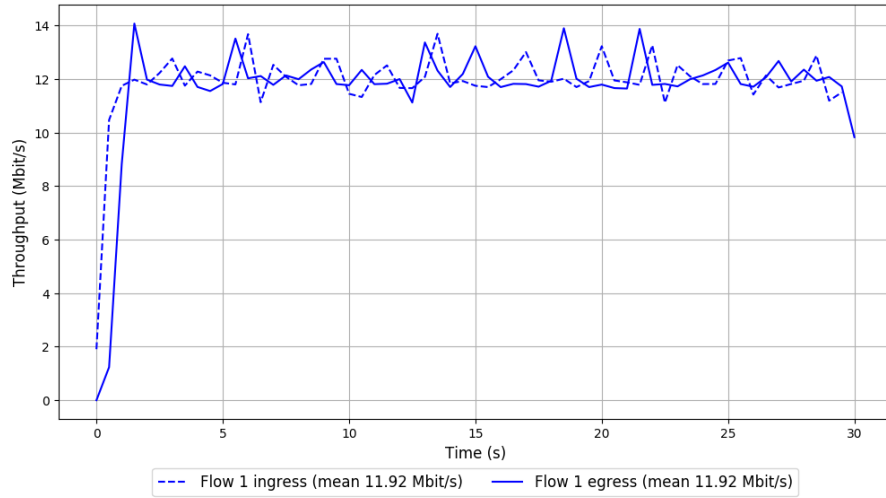
-- Flow 1:

Average throughput: 11.92 Mbit/s

95th percentile per-packet one-way delay: 38.172 ms

Loss rate: 0.27%

Run 2: Report of Sprout — Data Link





Run 3: Statistics of Sprout

Start at: 2019-09-18 17:10:31

End at: 2019-09-18 17:11:01

Local clock offset: -2.164 ms

Remote clock offset: 9.182 ms

# Below is generated by plot.py at 2019-09-18 20:39:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.95 Mbit/s

95th percentile per-packet one-way delay: 38.470 ms

Loss rate: 0.18%

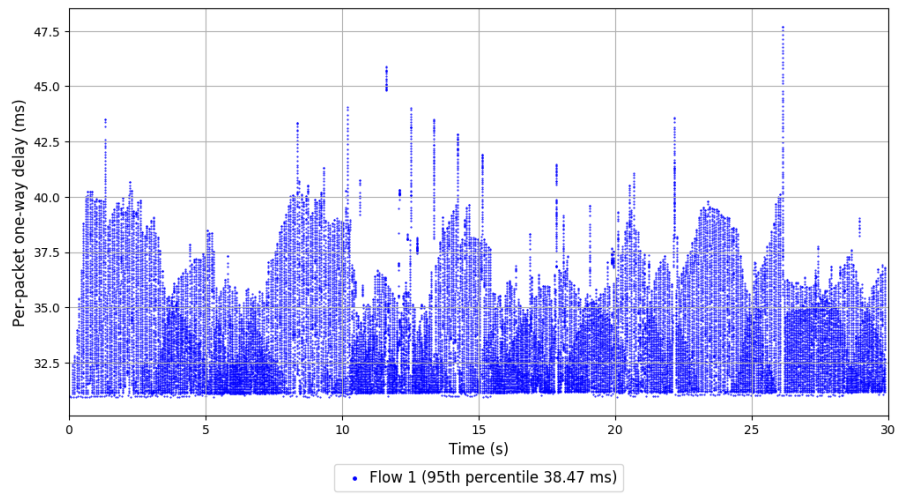
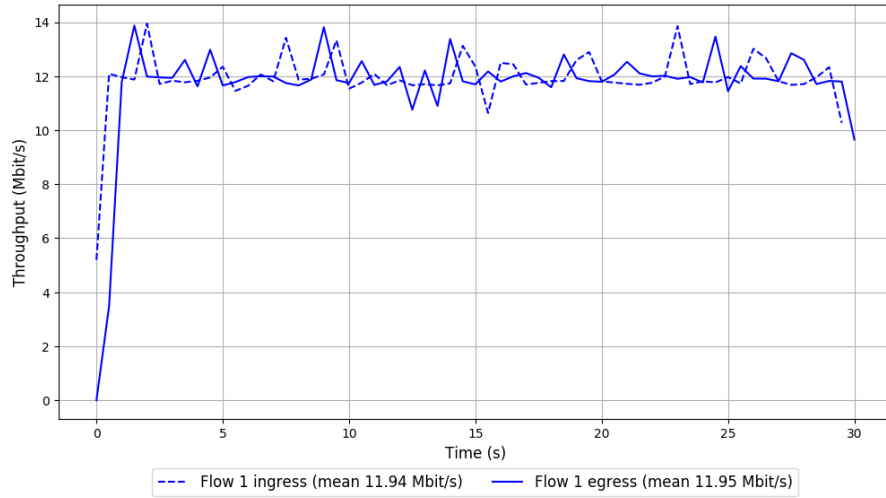
-- Flow 1:

Average throughput: 11.95 Mbit/s

95th percentile per-packet one-way delay: 38.470 ms

Loss rate: 0.18%

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



Run 4: Statistics of Sprout

Start at: 2019-09-18 18:17:37

End at: 2019-09-18 18:18:07

Local clock offset: 0.586 ms

Remote clock offset: 9.287 ms

# Below is generated by plot.py at 2019-09-18 20:39:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.93 Mbit/s

95th percentile per-packet one-way delay: 37.154 ms

Loss rate: 0.09%

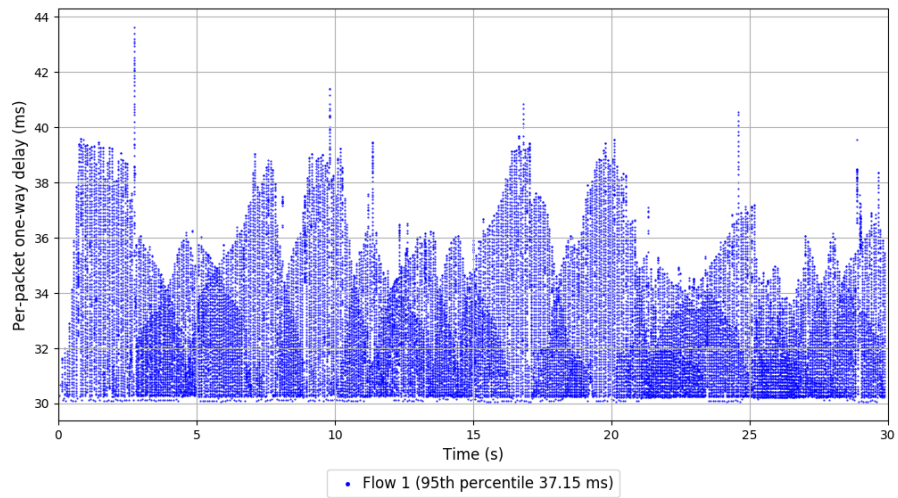
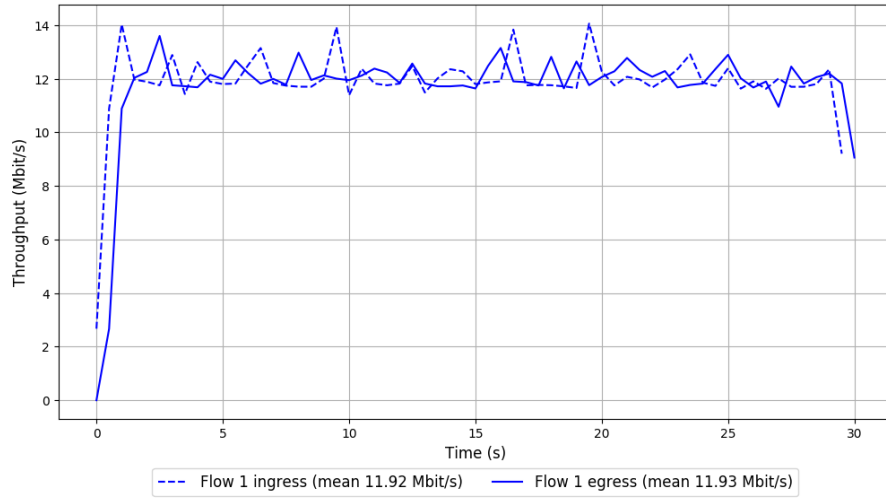
-- Flow 1:

Average throughput: 11.93 Mbit/s

95th percentile per-packet one-way delay: 37.154 ms

Loss rate: 0.09%

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



Run 5: Statistics of Sprout

Start at: 2019-09-18 19:19:02

End at: 2019-09-18 19:19:32

Local clock offset: -0.227 ms

Remote clock offset: 8.167 ms

# Below is generated by plot.py at 2019-09-18 20:39:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.01 Mbit/s

95th percentile per-packet one-way delay: 38.330 ms

Loss rate: 0.21%

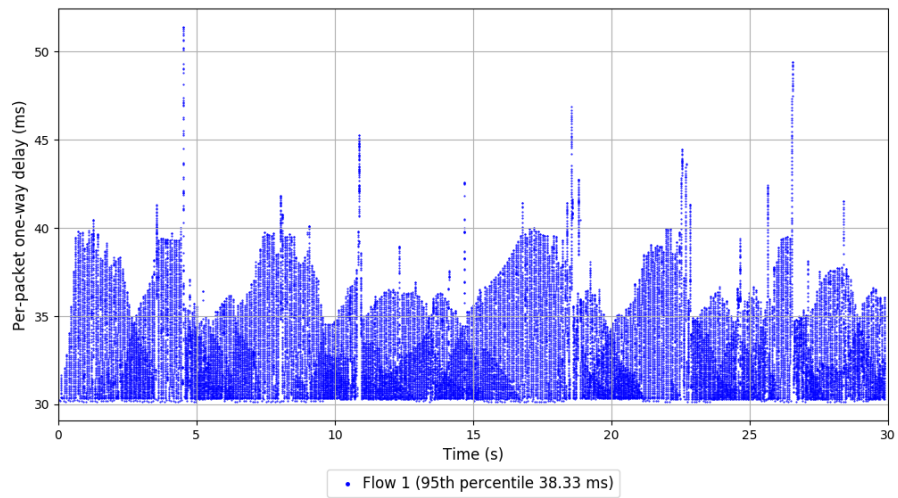
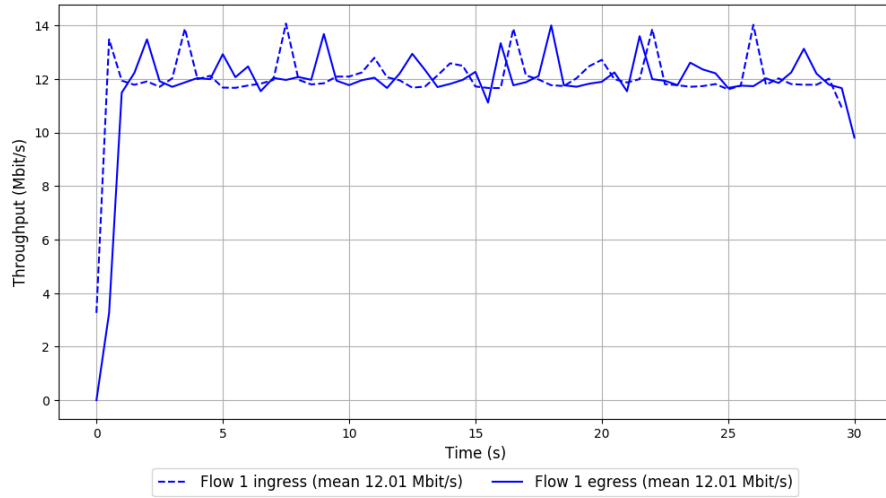
-- Flow 1:

Average throughput: 12.01 Mbit/s

95th percentile per-packet one-way delay: 38.330 ms

Loss rate: 0.21%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-09-18 15:44:22

End at: 2019-09-18 15:44:52

Local clock offset: 2.652 ms

Remote clock offset: 7.494 ms

# Below is generated by plot.py at 2019-09-18 20:40:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.95 Mbit/s

95th percentile per-packet one-way delay: 42.271 ms

Loss rate: 0.24%

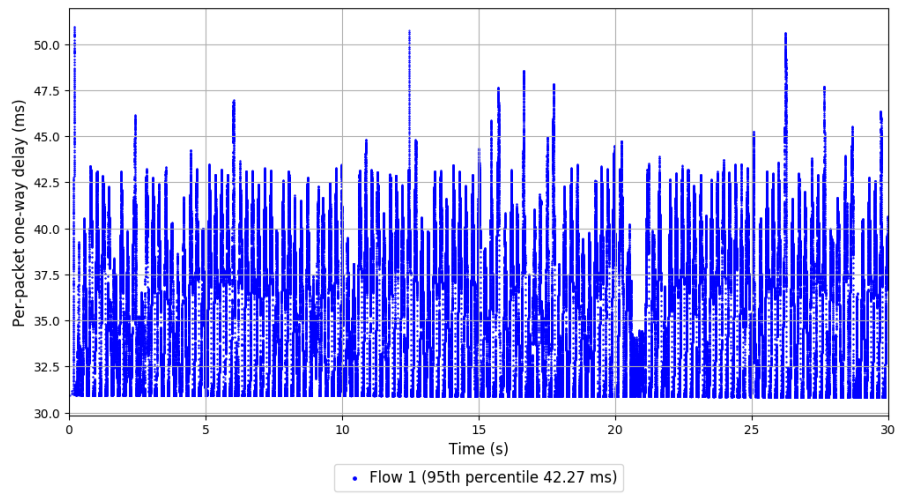
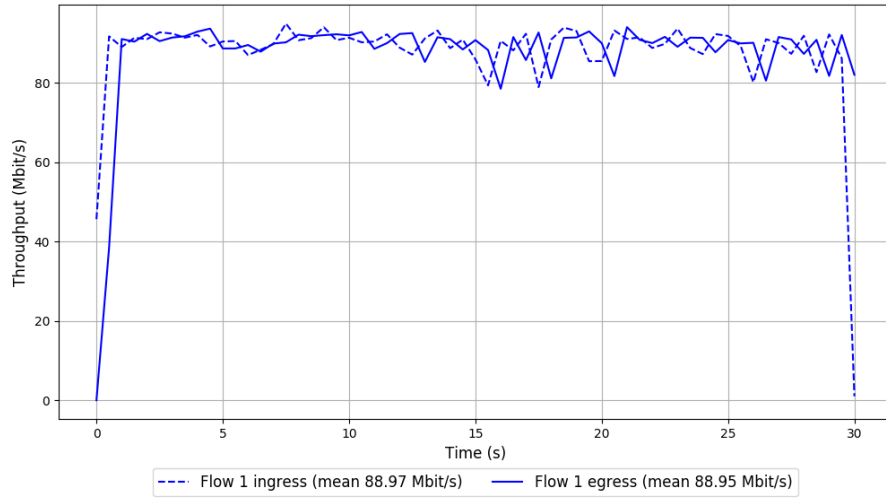
-- Flow 1:

Average throughput: 88.95 Mbit/s

95th percentile per-packet one-way delay: 42.271 ms

Loss rate: 0.24%

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





Run 2: Statistics of TaoVA-100x

Start at: 2019-09-18 16:35:52

End at: 2019-09-18 16:36:22

Local clock offset: 0.205 ms

Remote clock offset: 8.251 ms

# Below is generated by plot.py at 2019-09-18 20:40:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.06 Mbit/s

95th percentile per-packet one-way delay: 42.657 ms

Loss rate: 0.28%

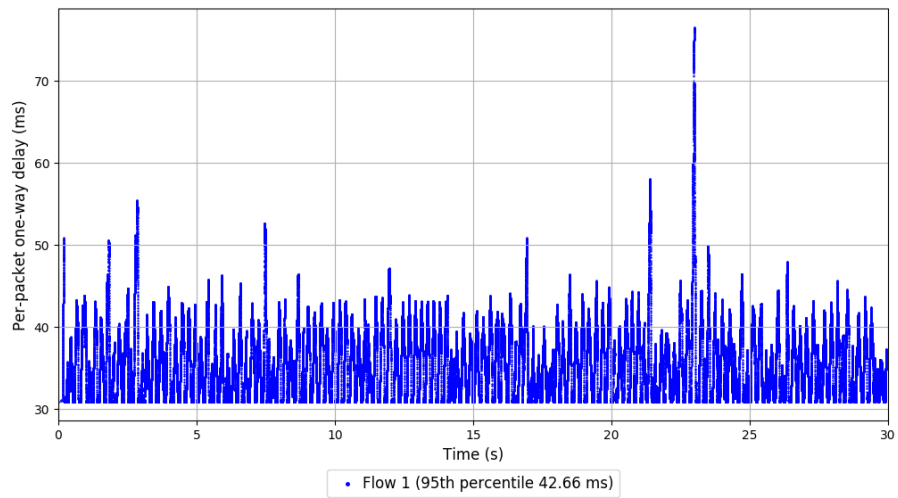
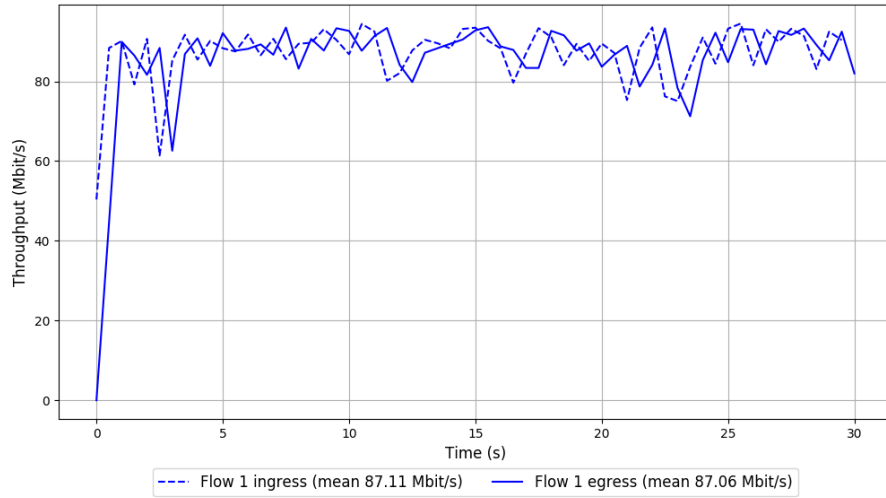
-- Flow 1:

Average throughput: 87.06 Mbit/s

95th percentile per-packet one-way delay: 42.657 ms

Loss rate: 0.28%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-09-18 17:21:32

End at: 2019-09-18 17:22:02

Local clock offset: -3.233 ms

Remote clock offset: 9.053 ms

# Below is generated by plot.py at 2019-09-18 20:40:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.80 Mbit/s

95th percentile per-packet one-way delay: 42.332 ms

Loss rate: 0.25%

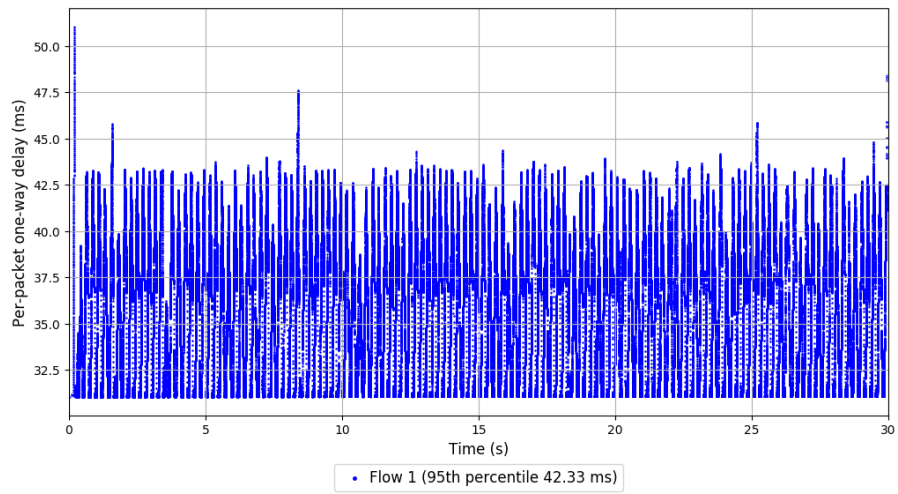
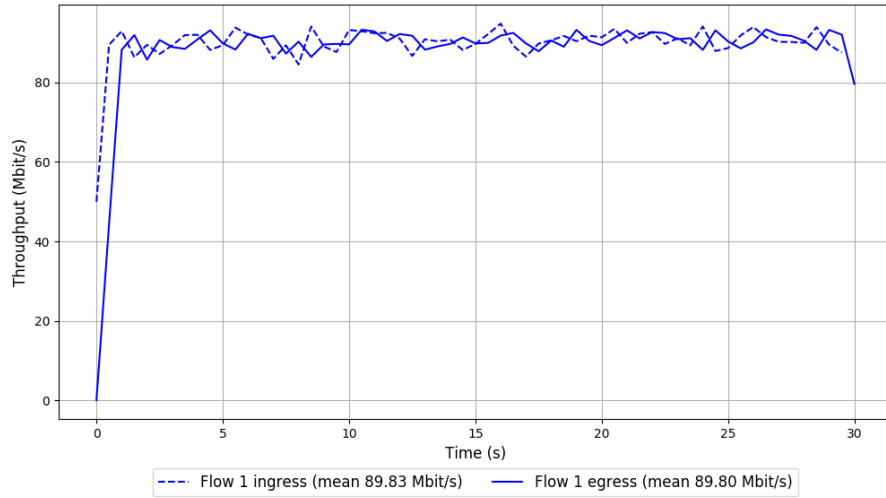
-- Flow 1:

Average throughput: 89.80 Mbit/s

95th percentile per-packet one-way delay: 42.332 ms

Loss rate: 0.25%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-09-18 18:29:08

End at: 2019-09-18 18:29:38

Local clock offset: 1.355 ms

Remote clock offset: 9.088 ms

# Below is generated by plot.py at 2019-09-18 20:40:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.65 Mbit/s

95th percentile per-packet one-way delay: 41.577 ms

Loss rate: 0.20%

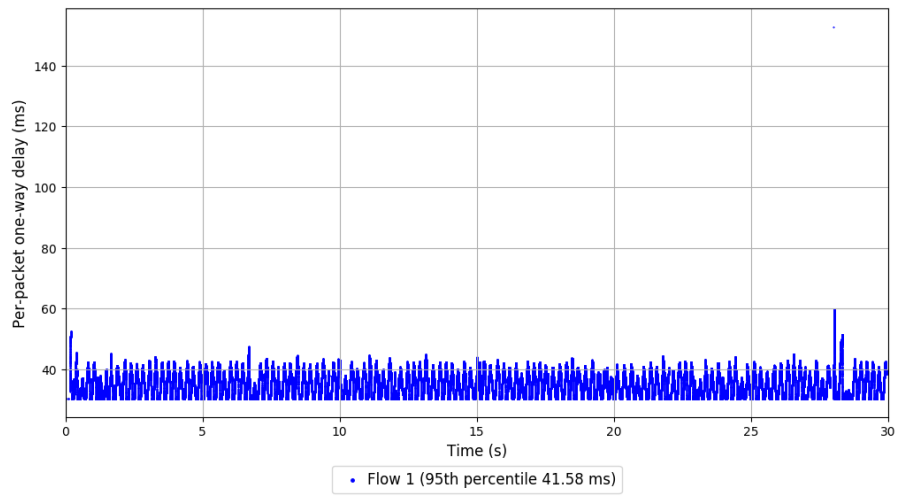
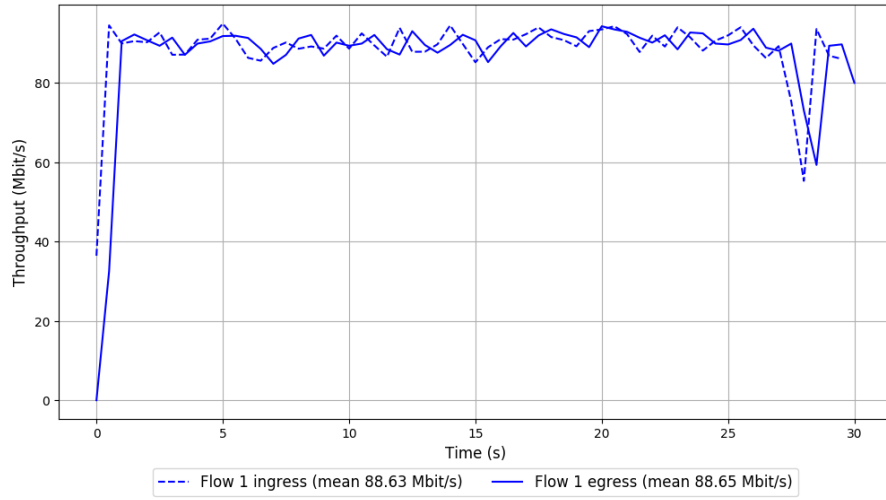
-- Flow 1:

Average throughput: 88.65 Mbit/s

95th percentile per-packet one-way delay: 41.577 ms

Loss rate: 0.20%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-09-18 19:34:51

End at: 2019-09-18 19:35:21

Local clock offset: 0.19 ms

Remote clock offset: 8.444 ms

# Below is generated by plot.py at 2019-09-18 20:40:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.07 Mbit/s

95th percentile per-packet one-way delay: 42.184 ms

Loss rate: 0.15%

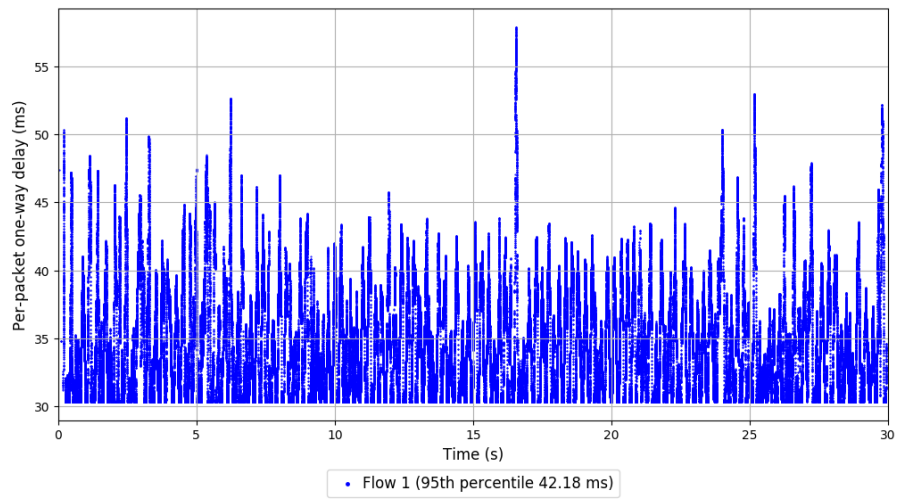
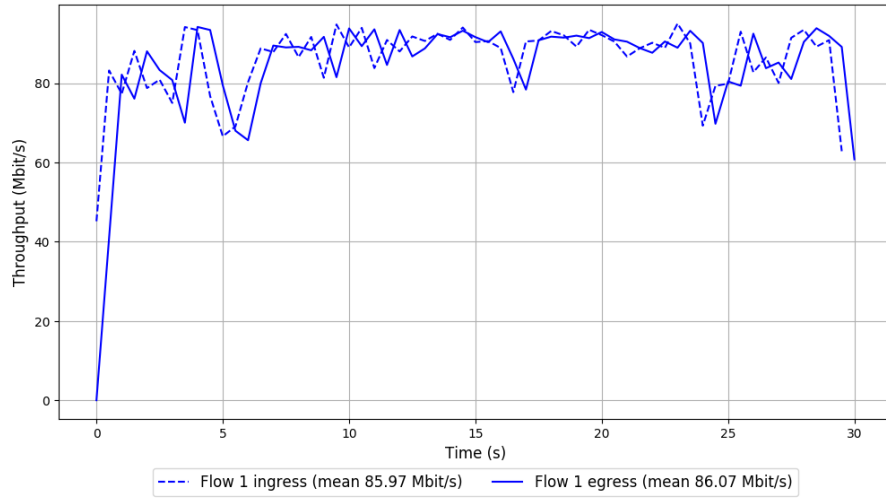
-- Flow 1:

Average throughput: 86.07 Mbit/s

95th percentile per-packet one-way delay: 42.184 ms

Loss rate: 0.15%

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





Run 1: Statistics of TCP Vegas

Start at: 2019-09-18 16:05:42

End at: 2019-09-18 16:06:12

Local clock offset: 2.768 ms

Remote clock offset: 7.584 ms

# Below is generated by plot.py at 2019-09-18 20:40:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 74.01 Mbit/s

95th percentile per-packet one-way delay: 37.460 ms

Loss rate: 0.30%

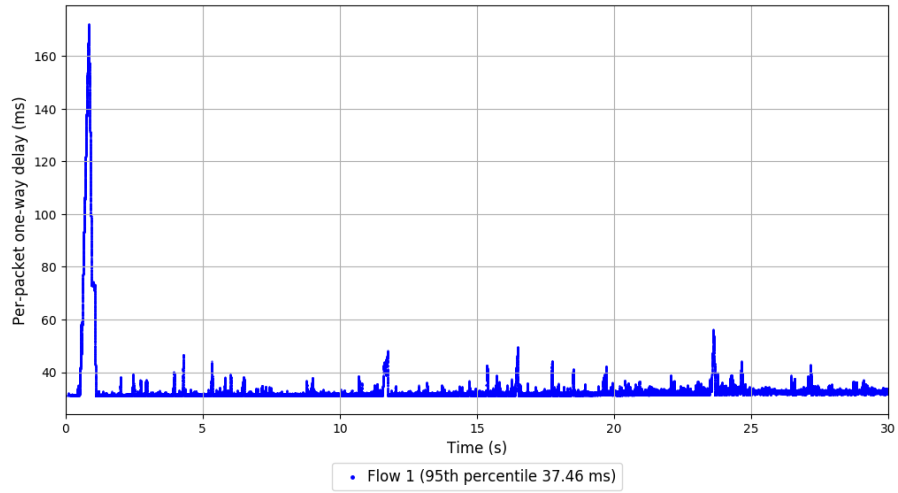
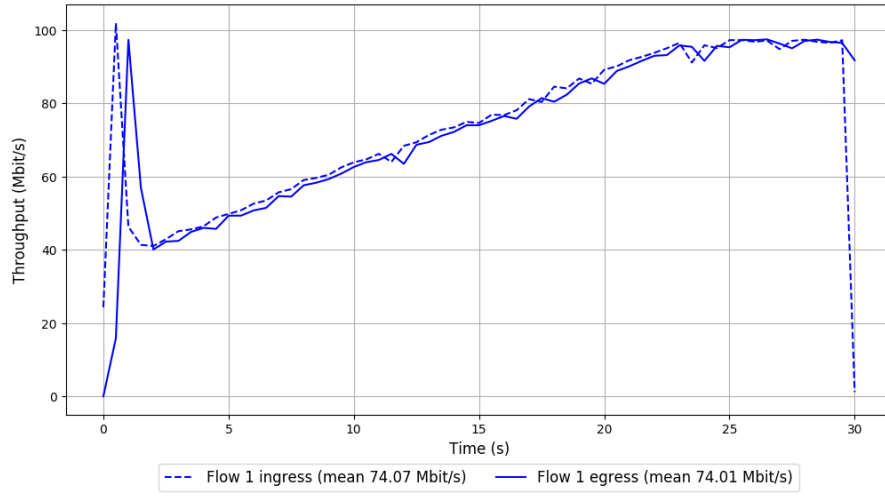
-- Flow 1:

Average throughput: 74.01 Mbit/s

95th percentile per-packet one-way delay: 37.460 ms

Loss rate: 0.30%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-09-18 16:49:44

End at: 2019-09-18 16:50:14

Local clock offset: 0.147 ms

Remote clock offset: 8.733 ms

# Below is generated by plot.py at 2019-09-18 20:40:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 56.31 Mbit/s

95th percentile per-packet one-way delay: 33.755 ms

Loss rate: 0.22%

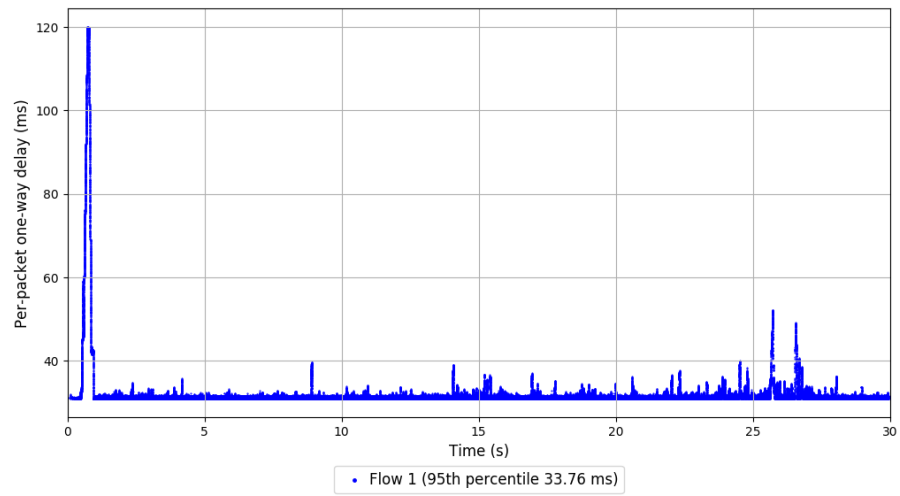
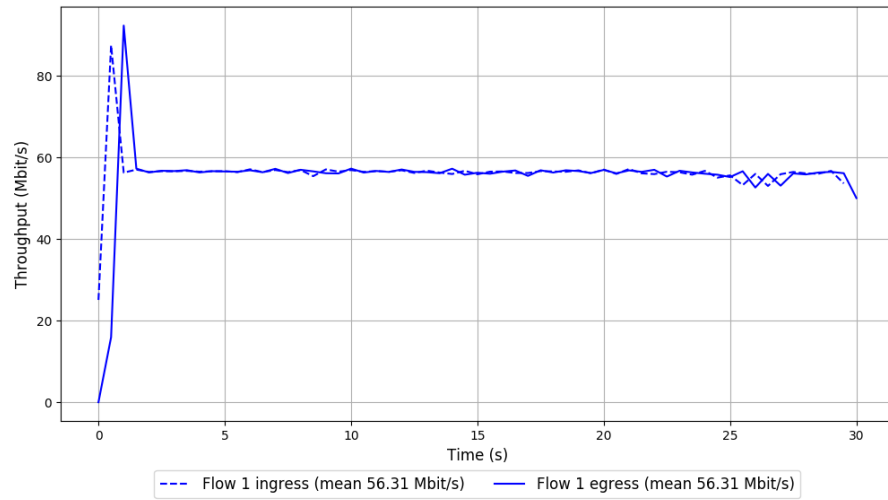
-- Flow 1:

Average throughput: 56.31 Mbit/s

95th percentile per-packet one-way delay: 33.755 ms

Loss rate: 0.22%

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



Run 3: Statistics of TCP Vegas

Start at: 2019-09-18 17:39:22

End at: 2019-09-18 17:39:52

Local clock offset: -3.258 ms

Remote clock offset: 9.189 ms

# Below is generated by plot.py at 2019-09-18 20:40:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.85 Mbit/s

95th percentile per-packet one-way delay: 34.984 ms

Loss rate: 0.24%

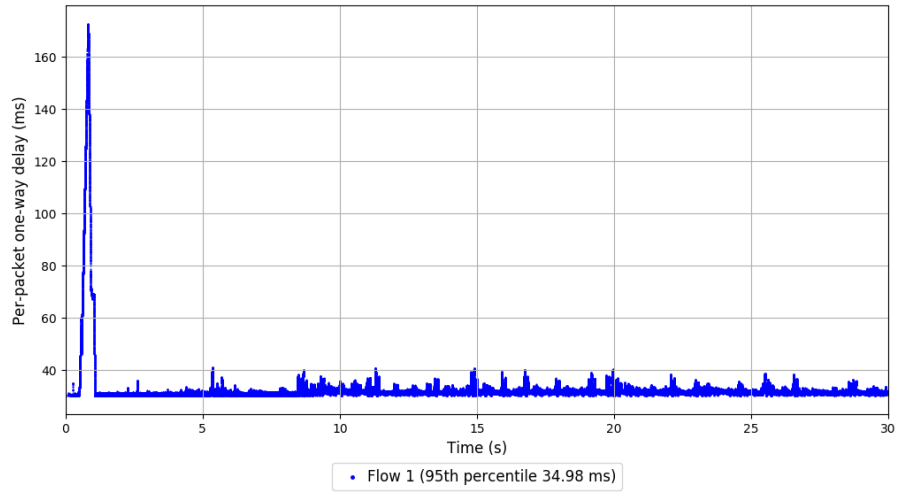
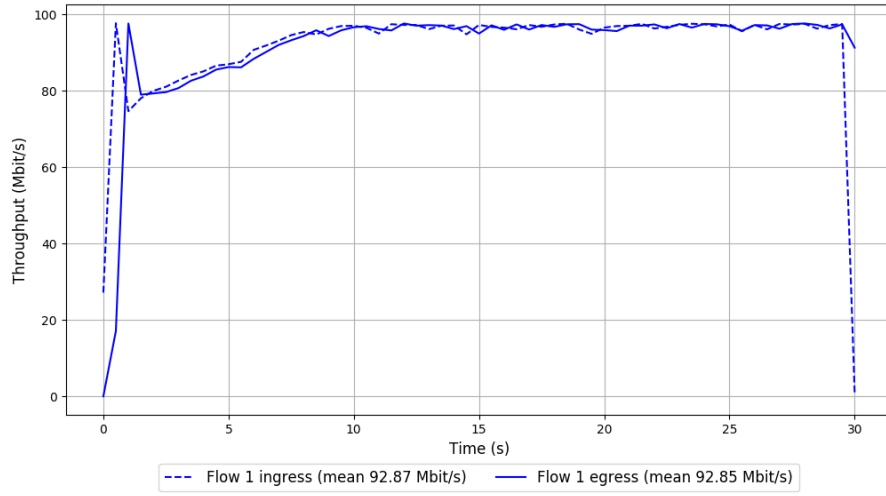
-- Flow 1:

Average throughput: 92.85 Mbit/s

95th percentile per-packet one-way delay: 34.984 ms

Loss rate: 0.24%

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



Run 4: Statistics of TCP Vegas

Start at: 2019-09-18 18:48:55

End at: 2019-09-18 18:49:25

Local clock offset: -2.458 ms

Remote clock offset: 9.202 ms

# Below is generated by plot.py at 2019-09-18 20:40:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 74.56 Mbit/s

95th percentile per-packet one-way delay: 36.858 ms

Loss rate: 0.29%

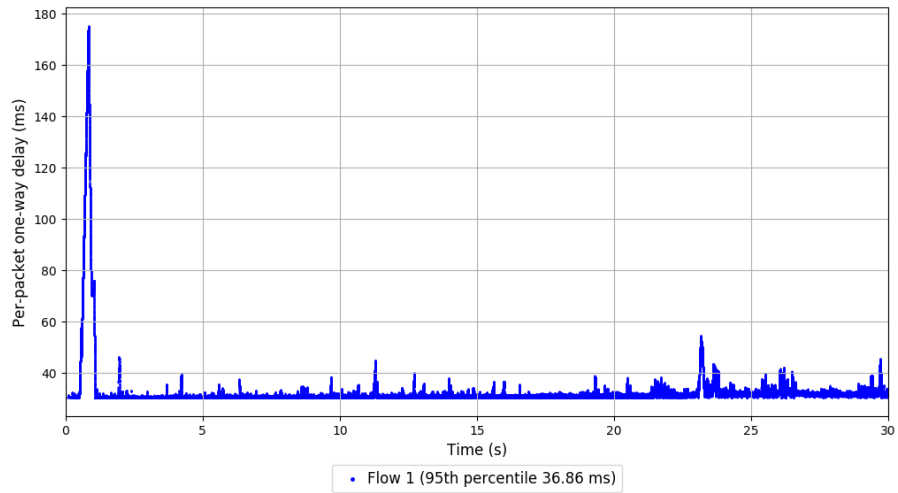
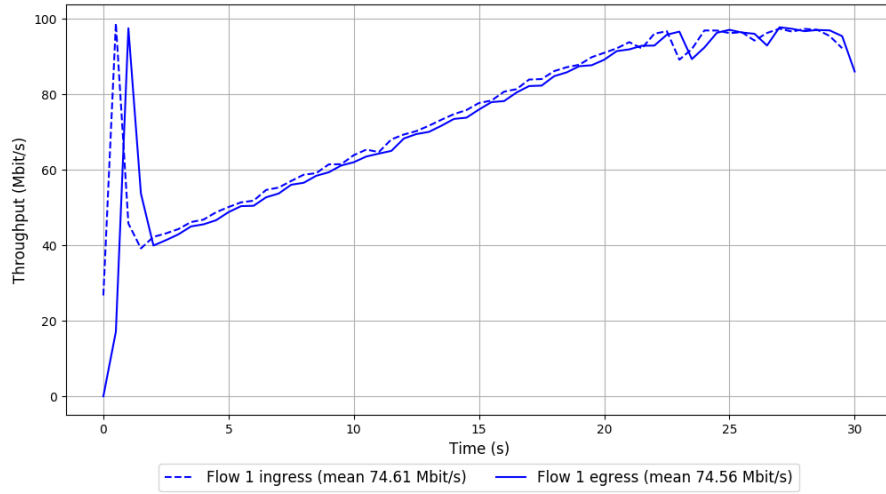
-- Flow 1:

Average throughput: 74.56 Mbit/s

95th percentile per-packet one-way delay: 36.858 ms

Loss rate: 0.29%

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





Run 5: Statistics of TCP Vegas

Start at: 2019-09-18 19:55:20

End at: 2019-09-18 19:55:50

Local clock offset: 0.489 ms

Remote clock offset: 8.826 ms

# Below is generated by plot.py at 2019-09-18 20:41:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 82.91 Mbit/s

95th percentile per-packet one-way delay: 39.942 ms

Loss rate: 0.27%

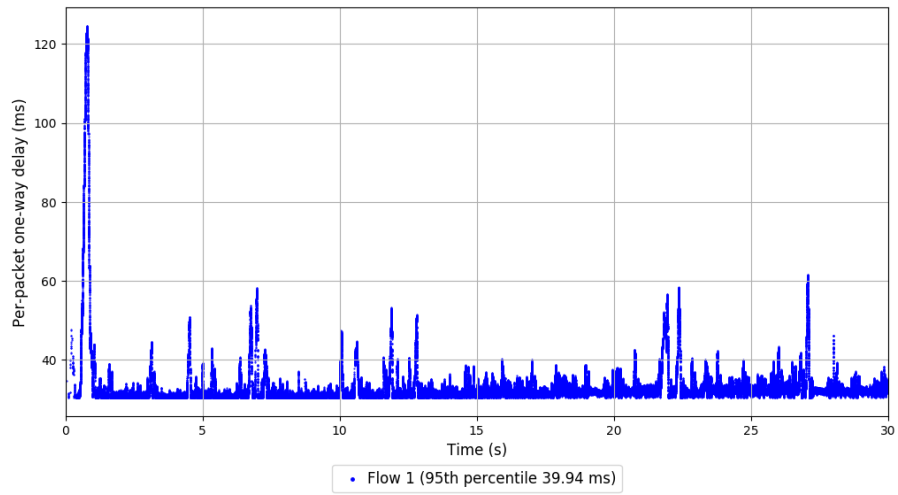
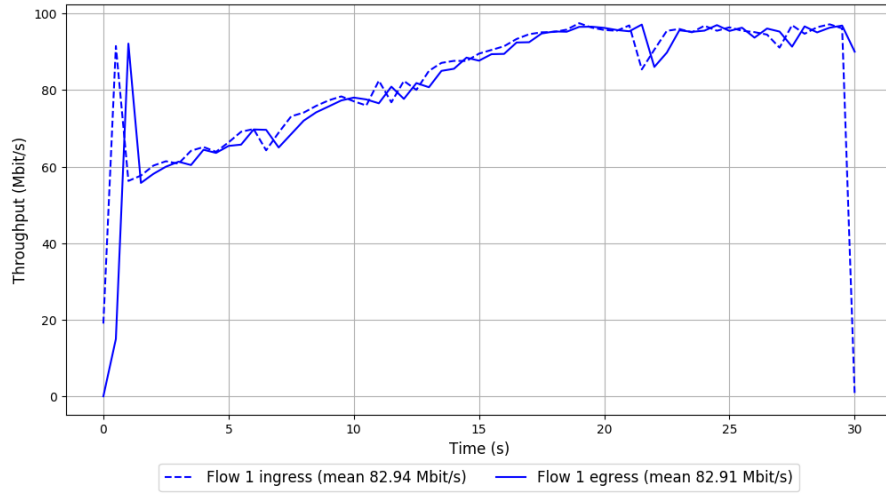
-- Flow 1:

Average throughput: 82.91 Mbit/s

95th percentile per-packet one-way delay: 39.942 ms

Loss rate: 0.27%

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



Run 1: Statistics of Verus

Start at: 2019-09-18 16:18:32

End at: 2019-09-18 16:19:03

Local clock offset: 0.681 ms

Remote clock offset: 7.963 ms

# Below is generated by plot.py at 2019-09-18 20:41:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 78.23 Mbit/s

95th percentile per-packet one-way delay: 106.615 ms

Loss rate: 0.52%

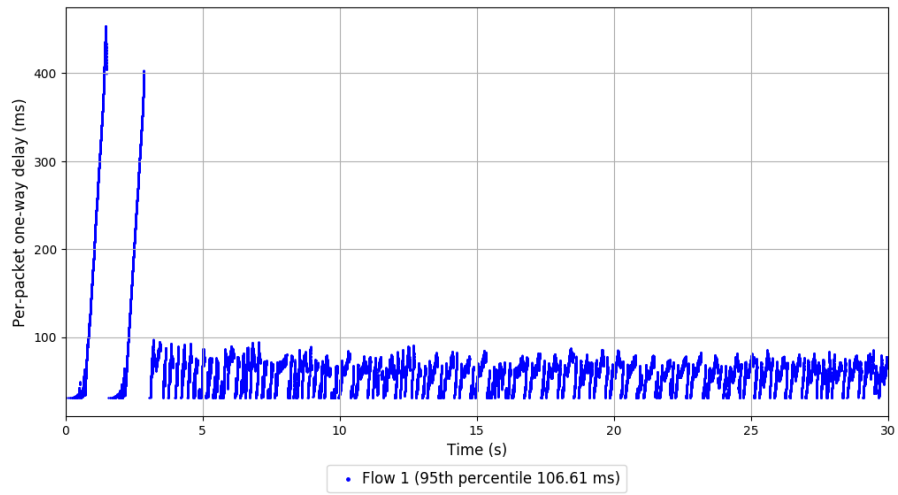
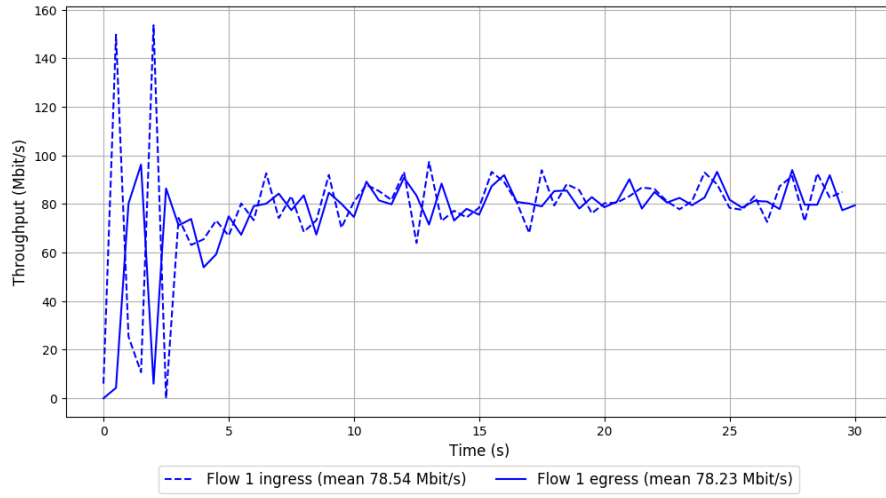
-- Flow 1:

Average throughput: 78.23 Mbit/s

95th percentile per-packet one-way delay: 106.615 ms

Loss rate: 0.52%

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



Run 2: Statistics of Verus

Start at: 2019-09-18 17:03:20

End at: 2019-09-18 17:03:50

Local clock offset: -0.71 ms

Remote clock offset: 8.966 ms

# Below is generated by plot.py at 2019-09-18 20:41:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.20 Mbit/s

95th percentile per-packet one-way delay: 73.845 ms

Loss rate: 0.51%

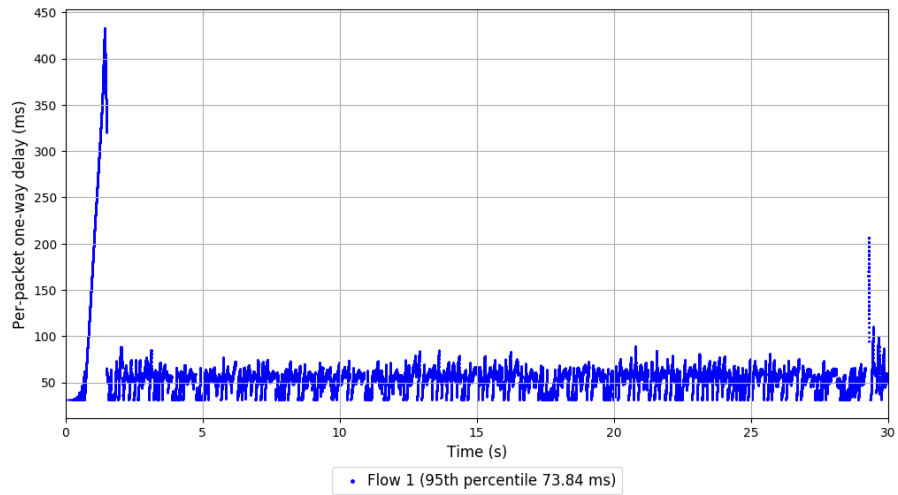
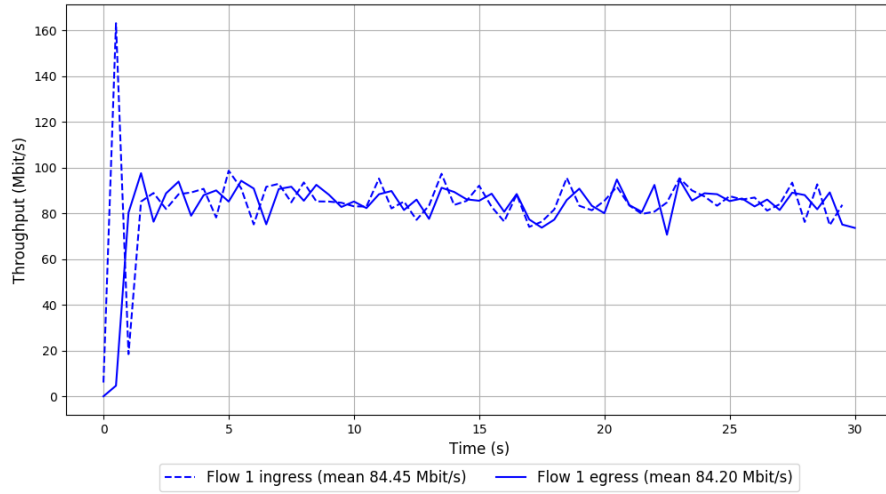
-- Flow 1:

Average throughput: 84.20 Mbit/s

95th percentile per-packet one-way delay: 73.845 ms

Loss rate: 0.51%

## Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-09-18 18:02:31

End at: 2019-09-18 18:03:01

Local clock offset: -2.549 ms

Remote clock offset: 9.259 ms

# Below is generated by plot.py at 2019-09-18 20:41:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.65 Mbit/s

95th percentile per-packet one-way delay: 79.433 ms

Loss rate: 0.45%

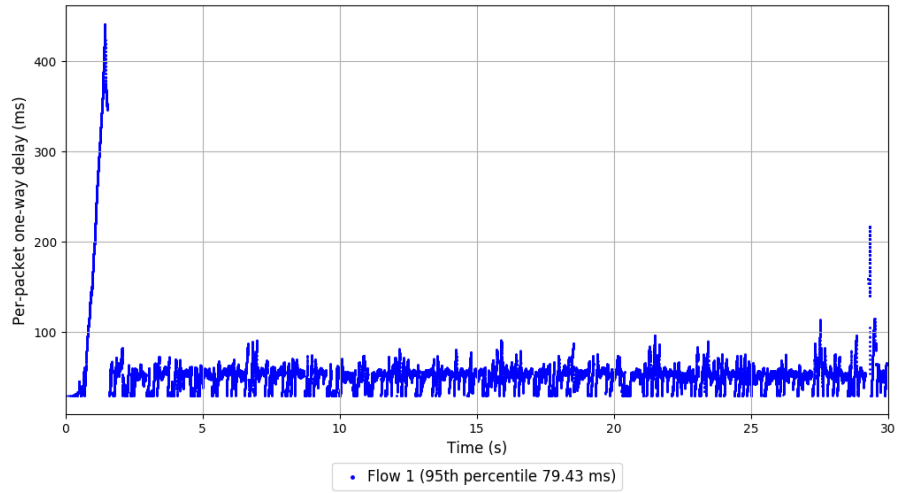
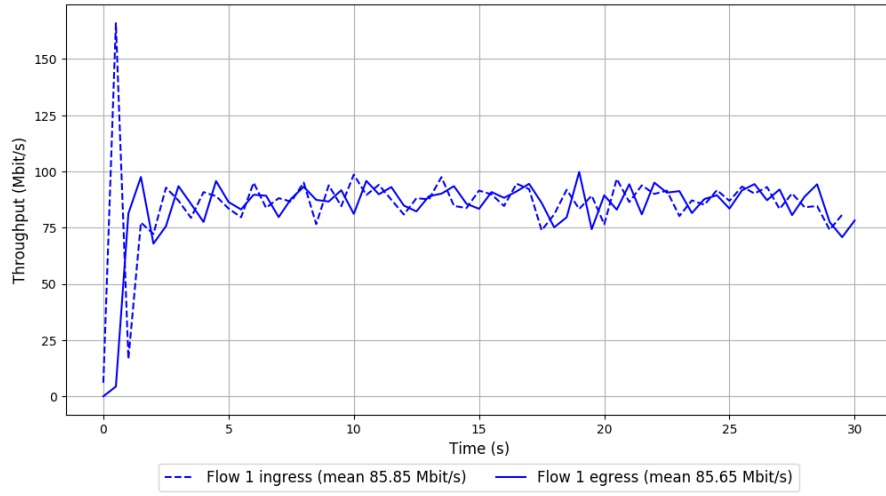
-- Flow 1:

Average throughput: 85.65 Mbit/s

95th percentile per-packet one-way delay: 79.433 ms

Loss rate: 0.45%

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





Run 4: Statistics of Verus

Start at: 2019-09-18 19:08:11

End at: 2019-09-18 19:08:41

Local clock offset: -1.24 ms

Remote clock offset: 8.487 ms

# Below is generated by plot.py at 2019-09-18 20:41:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.60 Mbit/s

95th percentile per-packet one-way delay: 66.935 ms

Loss rate: 0.36%

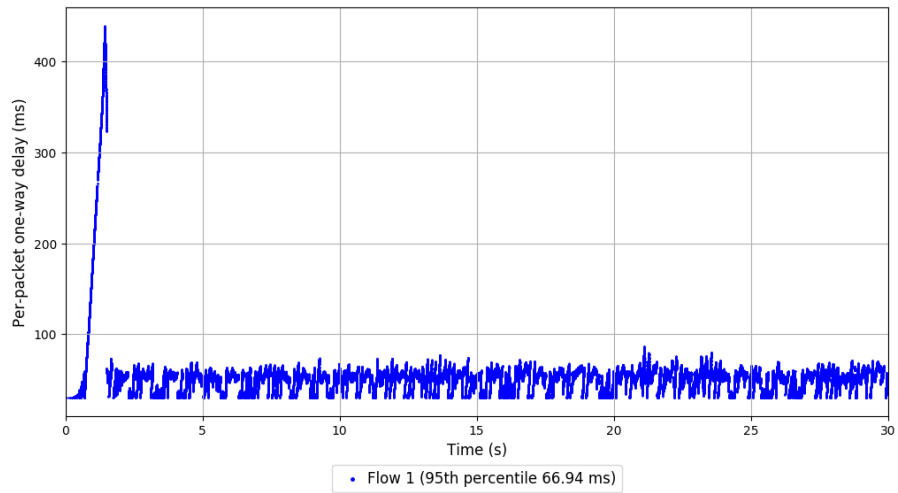
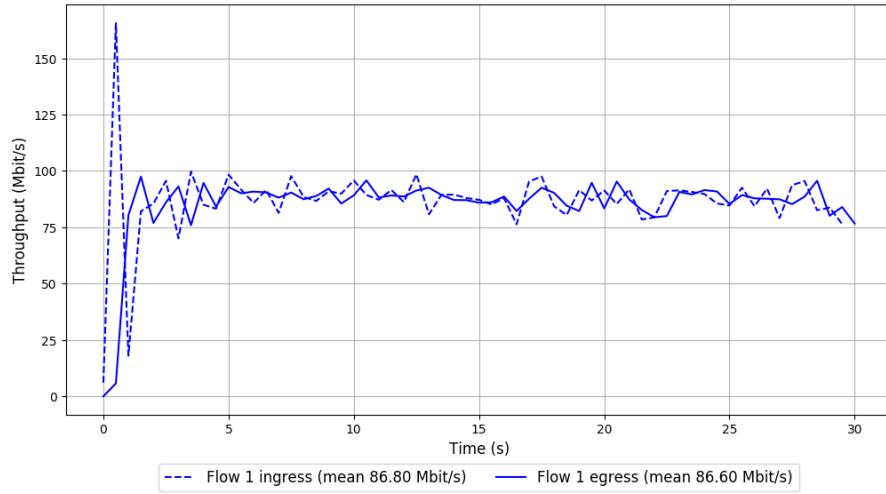
-- Flow 1:

Average throughput: 86.60 Mbit/s

95th percentile per-packet one-way delay: 66.935 ms

Loss rate: 0.36%

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



Run 5: Statistics of Verus

Start at: 2019-09-18 20:17:13

End at: 2019-09-18 20:17:43

Local clock offset: -2.573 ms

Remote clock offset: 8.962 ms

# Below is generated by plot.py at 2019-09-18 20:41:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.18 Mbit/s

95th percentile per-packet one-way delay: 72.030 ms

Loss rate: 0.44%

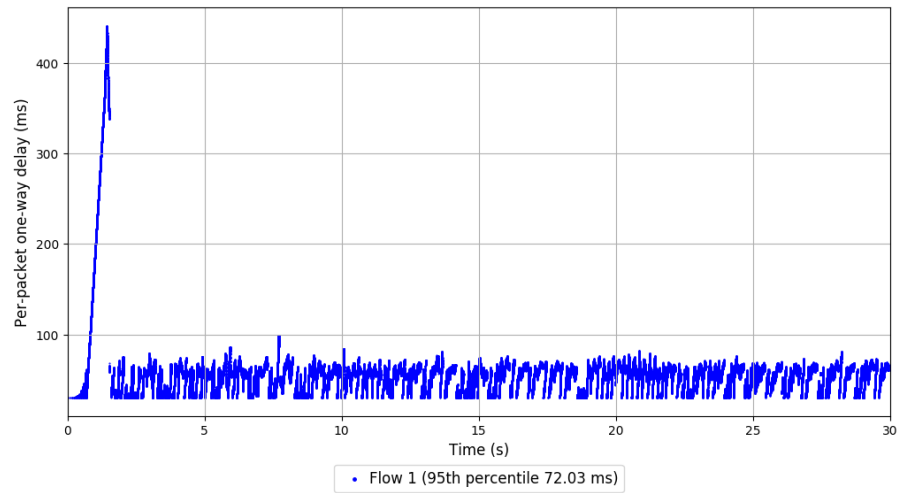
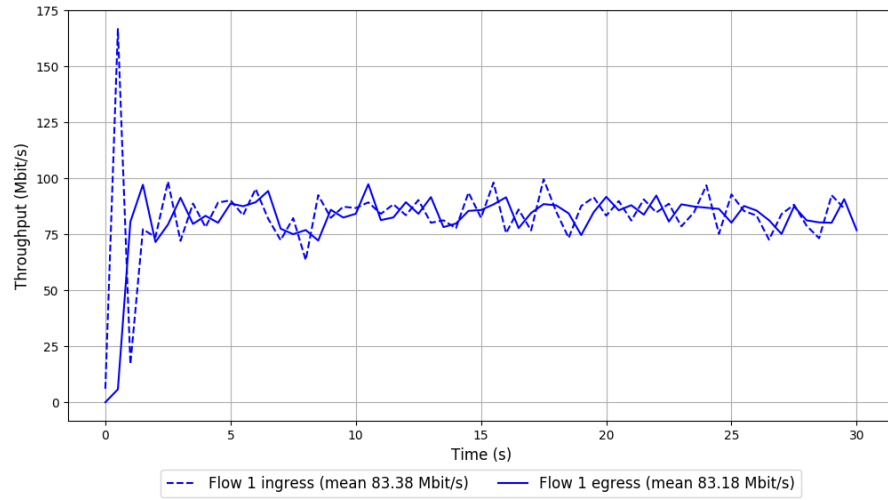
-- Flow 1:

Average throughput: 83.18 Mbit/s

95th percentile per-packet one-way delay: 72.030 ms

Loss rate: 0.44%

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



Run 1: Statistics of PCC-Vivace

Start at: 2019-09-18 16:07:20

End at: 2019-09-18 16:07:50

Local clock offset: 2.398 ms

Remote clock offset: 7.726 ms

# Below is generated by plot.py at 2019-09-18 20:41:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.88 Mbit/s

95th percentile per-packet one-way delay: 68.390 ms

Loss rate: 0.28%

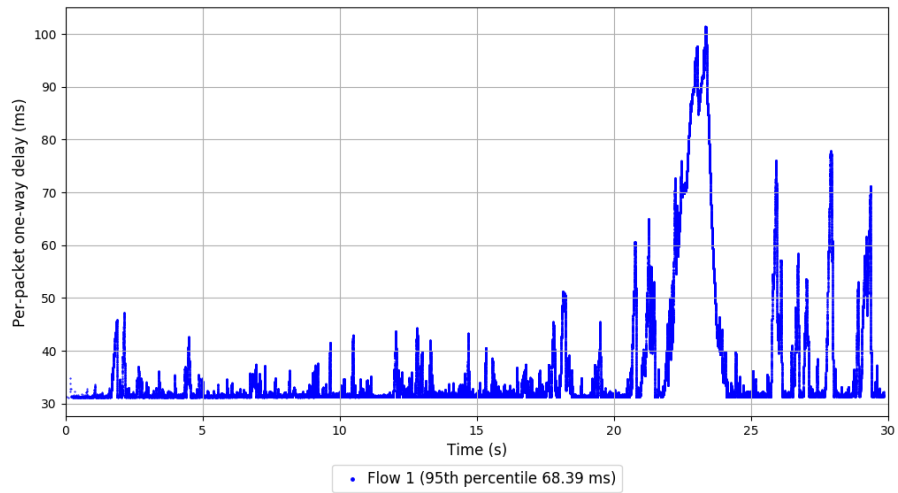
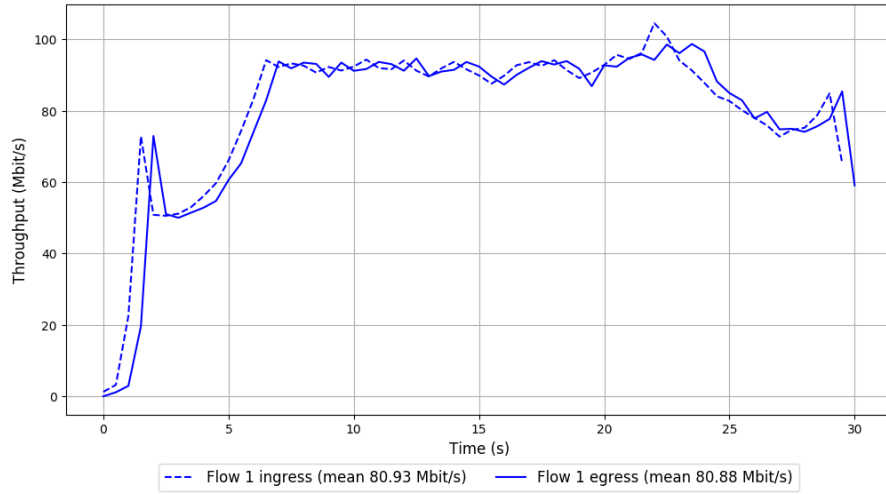
-- Flow 1:

Average throughput: 80.88 Mbit/s

95th percentile per-packet one-way delay: 68.390 ms

Loss rate: 0.28%

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



Run 2: Statistics of PCC-Vivace

Start at: 2019-09-18 16:51:40

End at: 2019-09-18 16:52:10

Local clock offset: 0.156 ms

Remote clock offset: 8.698 ms

# Below is generated by plot.py at 2019-09-18 20:41:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 73.70 Mbit/s

95th percentile per-packet one-way delay: 44.920 ms

Loss rate: 0.30%

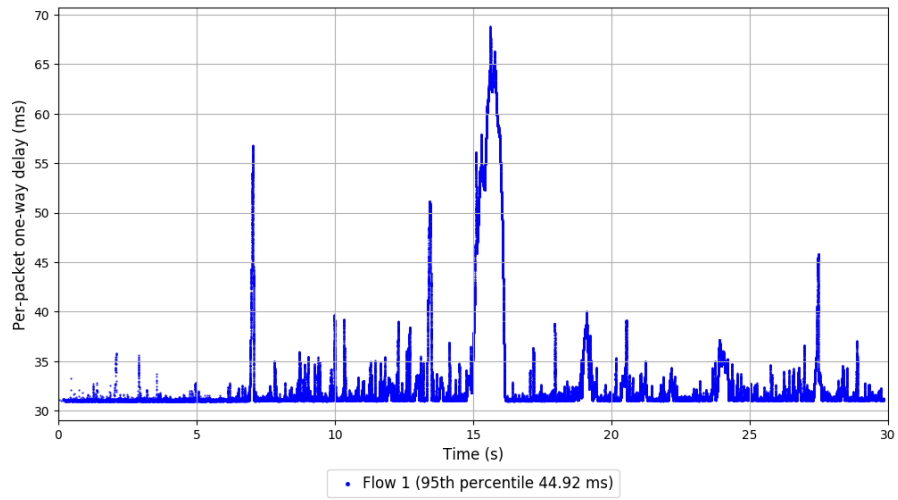
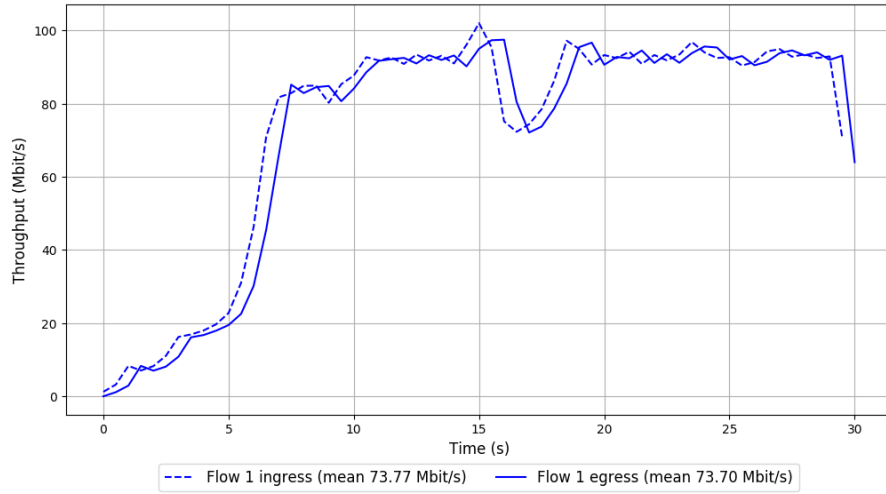
-- Flow 1:

Average throughput: 73.70 Mbit/s

95th percentile per-packet one-way delay: 44.920 ms

Loss rate: 0.30%

Run 2: Report of PCC-Vivace — Data Link





Run 3: Statistics of PCC-Vivace

Start at: 2019-09-18 17:41:26

End at: 2019-09-18 17:41:56

Local clock offset: -3.226 ms

Remote clock offset: 9.272 ms

# Below is generated by plot.py at 2019-09-18 20:41:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 82.07 Mbit/s

95th percentile per-packet one-way delay: 36.451 ms

Loss rate: 0.25%

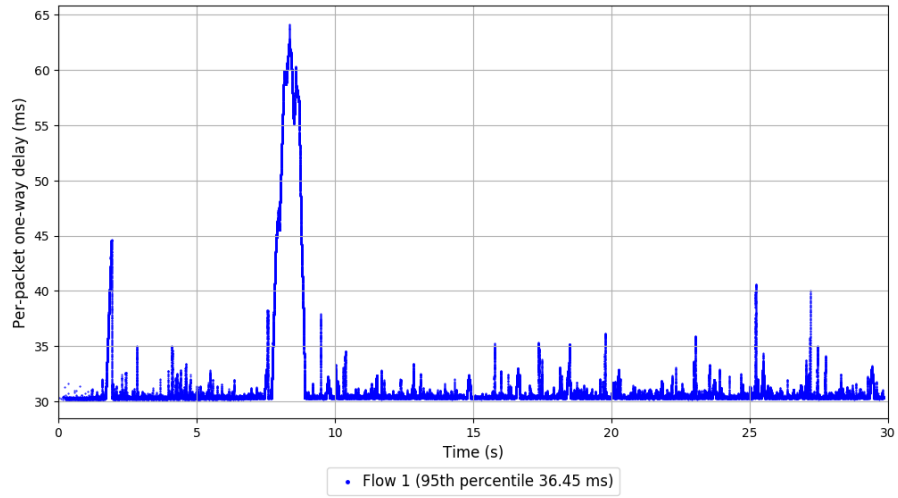
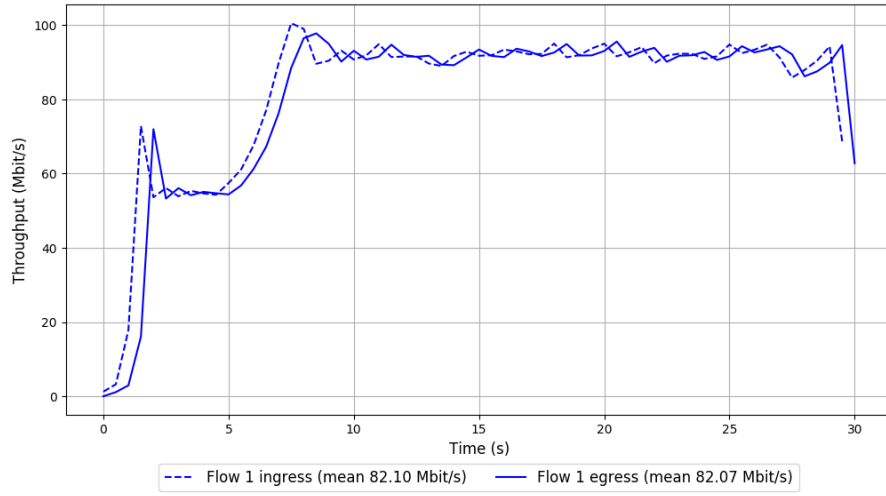
-- Flow 1:

Average throughput: 82.07 Mbit/s

95th percentile per-packet one-way delay: 36.451 ms

Loss rate: 0.25%

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



Run 4: Statistics of PCC-Vivace

Start at: 2019-09-18 18:51:06

End at: 2019-09-18 18:51:36

Local clock offset: -2.701 ms

Remote clock offset: 9.189 ms

# Below is generated by plot.py at 2019-09-18 20:42:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.31 Mbit/s

95th percentile per-packet one-way delay: 63.144 ms

Loss rate: 0.30%

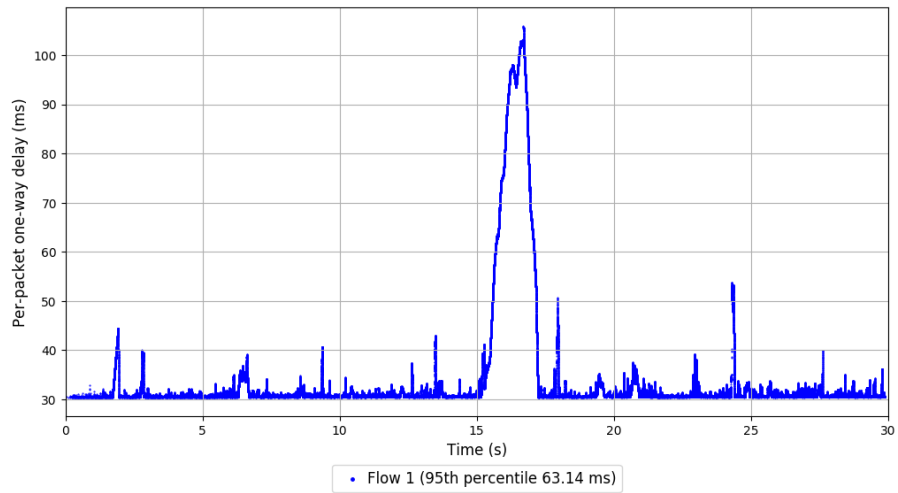
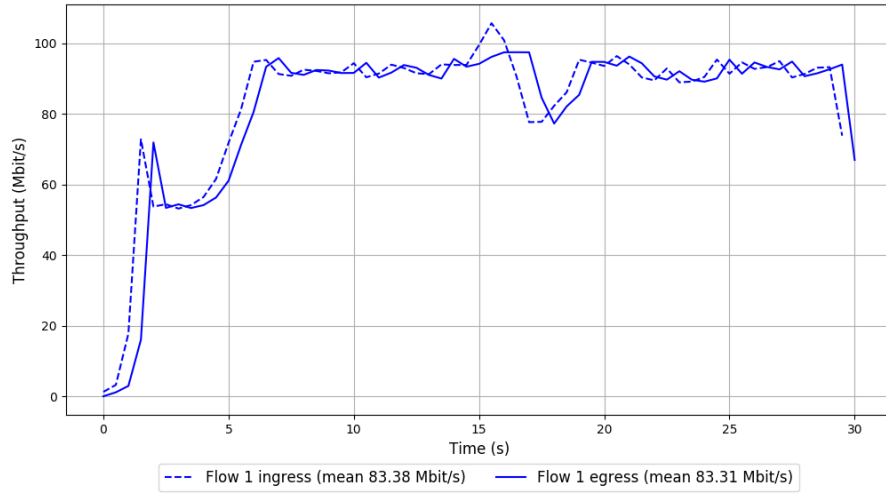
-- Flow 1:

Average throughput: 83.31 Mbit/s

95th percentile per-packet one-way delay: 63.144 ms

Loss rate: 0.30%

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



Run 5: Statistics of PCC-Vivace

Start at: 2019-09-18 19:57:52

End at: 2019-09-18 19:58:22

Local clock offset: 0.537 ms

Remote clock offset: 8.907 ms

# Below is generated by plot.py at 2019-09-18 20:42:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 82.93 Mbit/s

95th percentile per-packet one-way delay: 35.086 ms

Loss rate: 0.25%

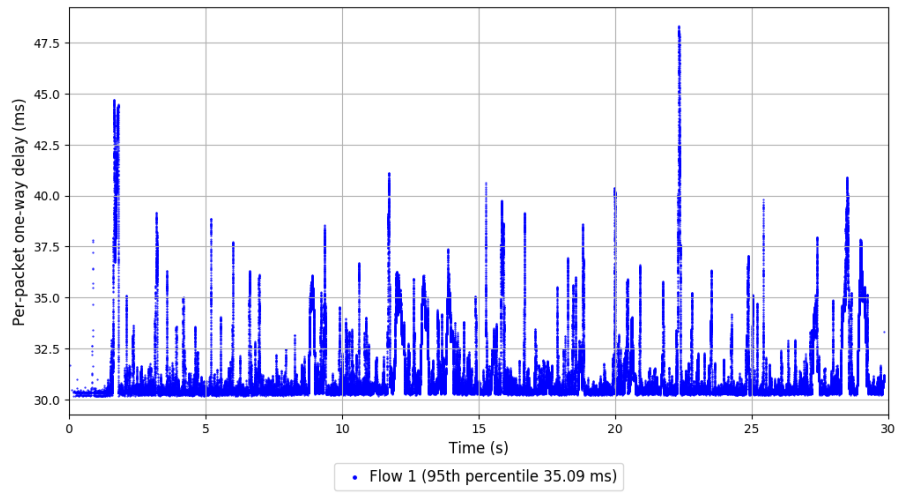
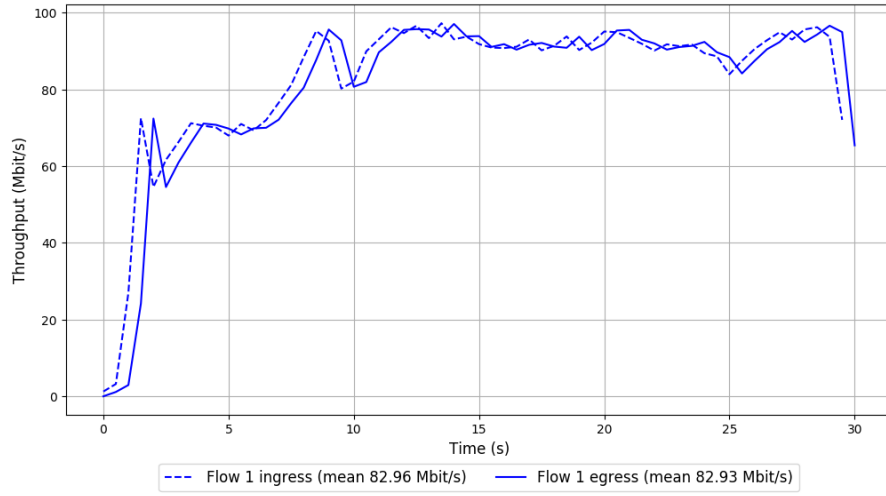
-- Flow 1:

Average throughput: 82.93 Mbit/s

95th percentile per-packet one-way delay: 35.086 ms

Loss rate: 0.25%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-09-18 15:32:23

End at: 2019-09-18 15:32:53

Local clock offset: -2.096 ms

Remote clock offset: 8.075 ms

# Below is generated by plot.py at 2019-09-18 20:42:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 31.585 ms

Loss rate: 0.26%

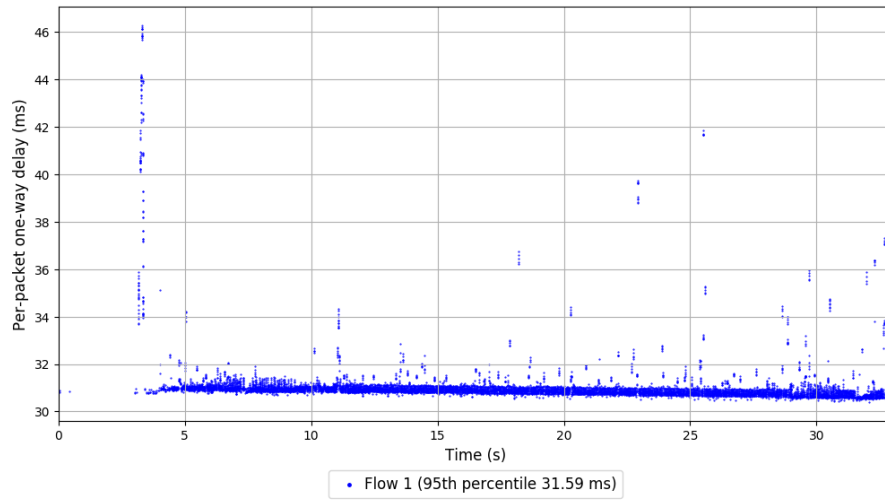
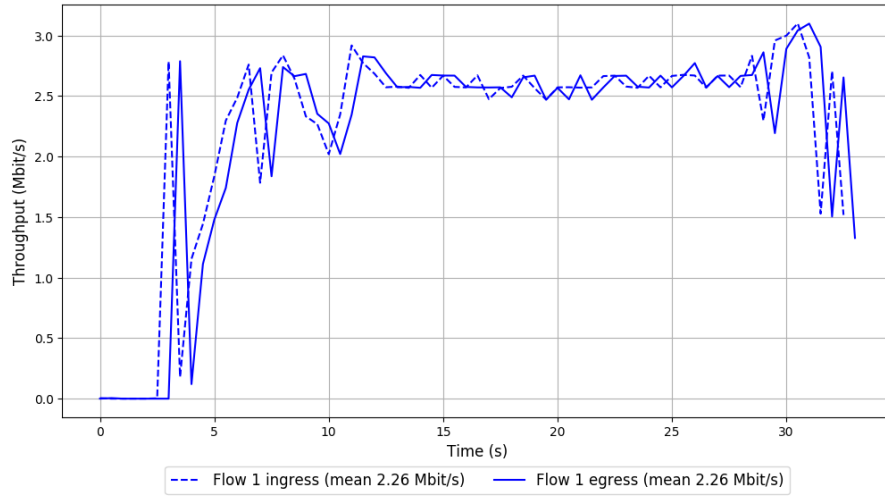
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 31.585 ms

Loss rate: 0.26%

Run 1: Report of WebRTC media — Data Link





Run 2: Statistics of WebRTC media

Start at: 2019-09-18 16:27:33

End at: 2019-09-18 16:28:03

Local clock offset: 0.348 ms

Remote clock offset: 8.067 ms

# Below is generated by plot.py at 2019-09-18 20:42:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 31.786 ms

Loss rate: 0.23%

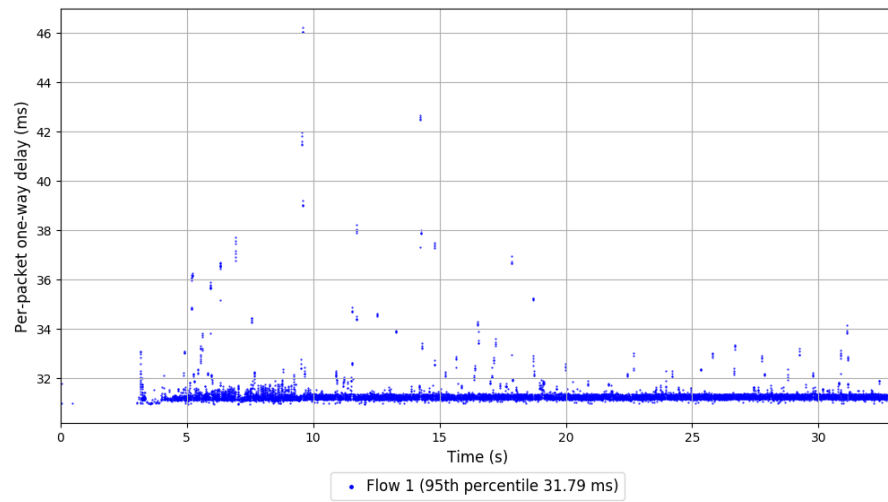
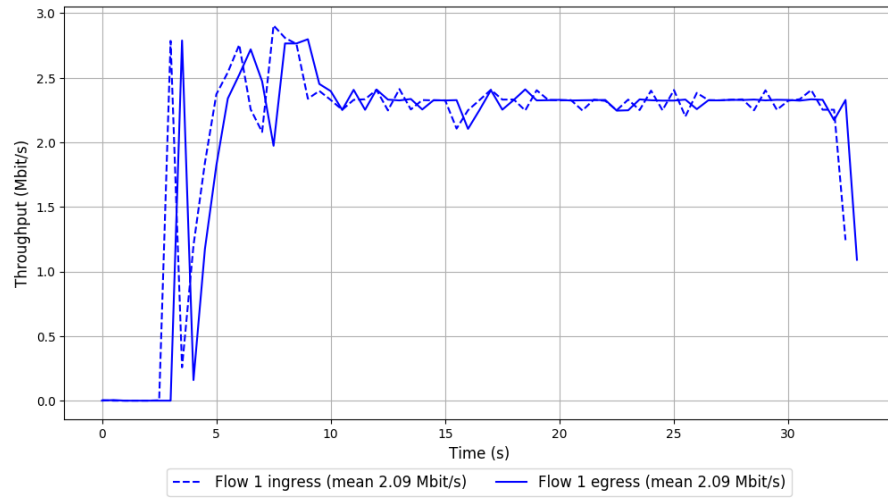
-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 31.786 ms

Loss rate: 0.23%

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



Run 3: Statistics of WebRTC media

Start at: 2019-09-18 17:11:43

End at: 2019-09-18 17:12:13

Local clock offset: -2.273 ms

Remote clock offset: 9.249 ms

# Below is generated by plot.py at 2019-09-18 20:42:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 31.680 ms

Loss rate: 0.25%

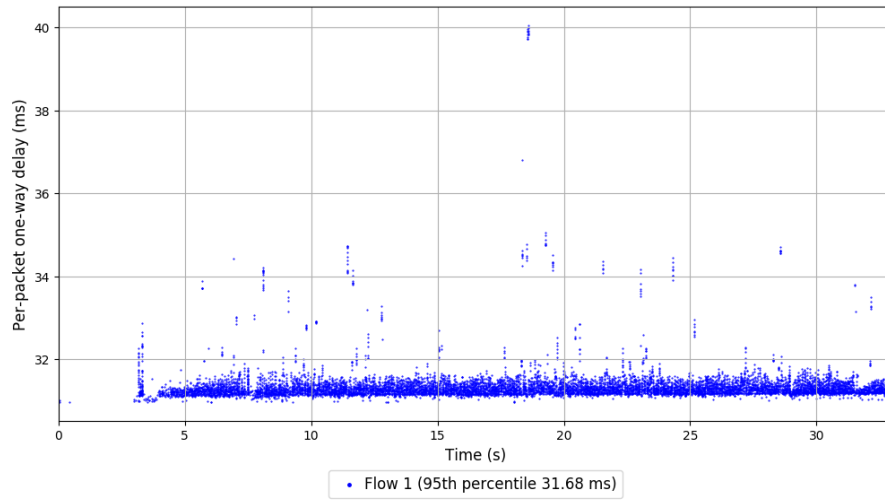
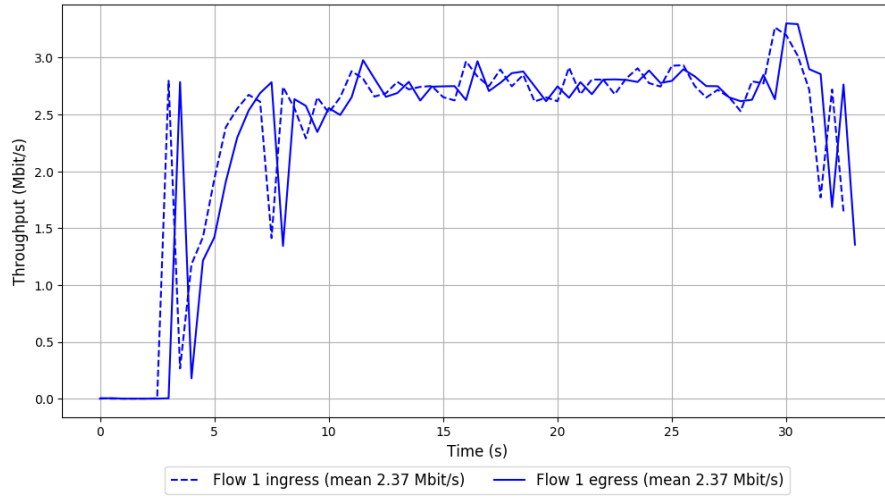
-- Flow 1:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 31.680 ms

Loss rate: 0.25%

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



Run 4: Statistics of WebRTC media

Start at: 2019-09-18 18:18:48

End at: 2019-09-18 18:19:18

Local clock offset: 0.681 ms

Remote clock offset: 9.223 ms

# Below is generated by plot.py at 2019-09-18 20:42:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 31.696 ms

Loss rate: 0.23%

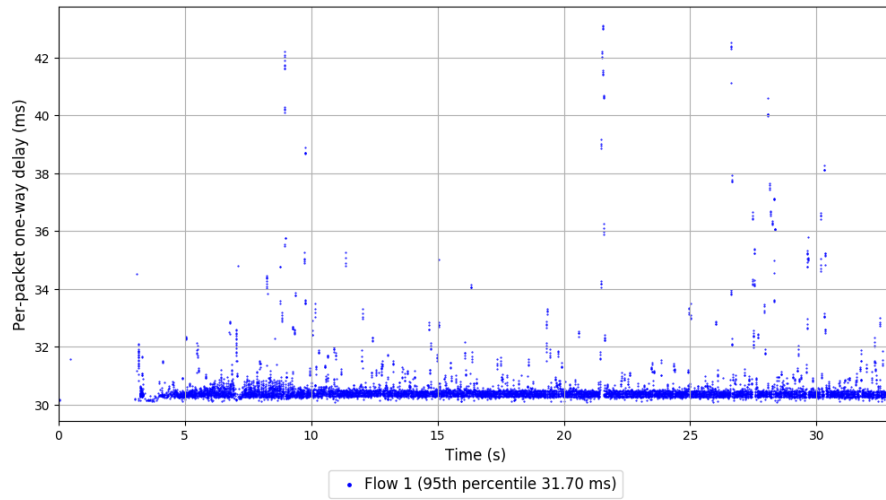
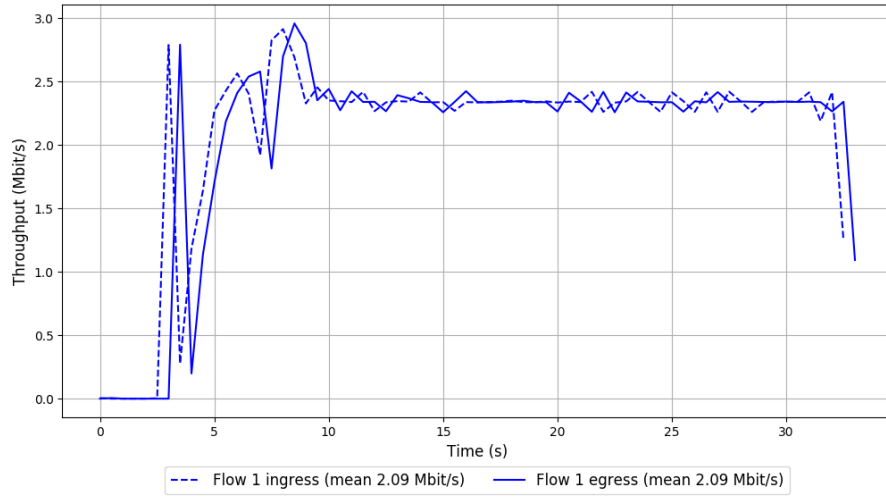
-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 31.696 ms

Loss rate: 0.23%

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



Run 5: Statistics of WebRTC media

Start at: 2019-09-18 19:20:15

End at: 2019-09-18 19:20:45

Local clock offset: -0.139 ms

Remote clock offset: 8.148 ms

# Below is generated by plot.py at 2019-09-18 20:42:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 30.962 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 30.962 ms

Loss rate: 0.26%

Run 5: Report of WebRTC media — Data Link

