

## Pantheon Report

Generated at 2019-03-08 23:37:19 (UTC).  
Data path: AWS California 2 on `ens5` (*local*) → Mexico on `em1` (*remote*).  
Repeated the test of 21 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:

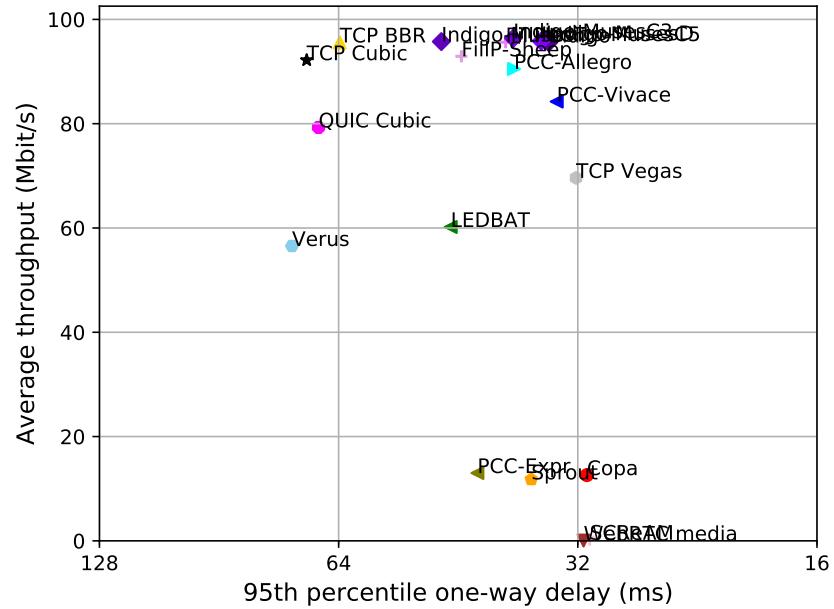
```
Linux 4.15.0-1031-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

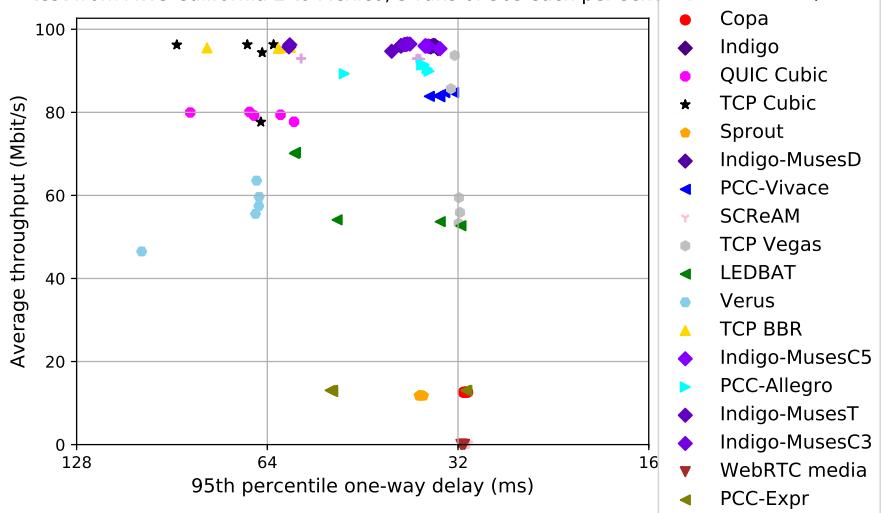
```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
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-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third\_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

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



test from AWS California 2 to Mexico, 5 runs of 30s each per scheme



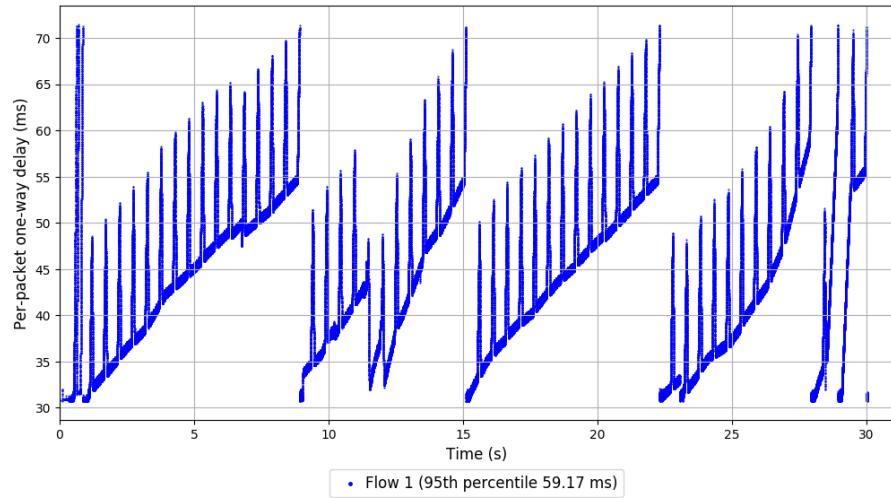
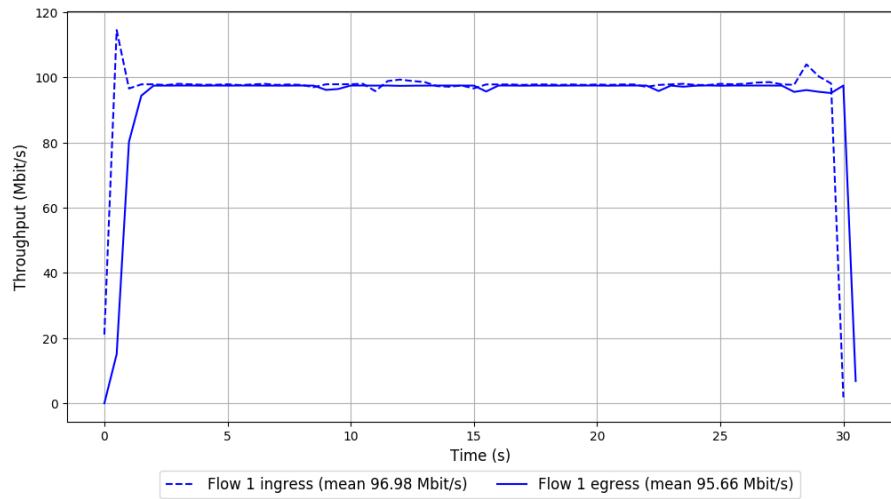
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	95.59	63.79	1.56
Copa	5	12.61	31.17	70.72
TCP Cubic	5	92.18	70.21	0.54
FillP	5	95.62	39.45	0.66
FillP-Sheep	5	92.92	44.84	0.59
Indigo	5	95.58	34.82	0.01
Indigo-MusesC3	5	96.39	38.58	0.04
Indigo-MusesC5	5	95.84	35.58	0.06
Indigo-MusesD	5	96.02	35.11	0.04
Indigo-MusesT	5	95.74	47.52	0.88
LEDBAT	5	60.19	46.25	0.01
PCC-Allegro	5	90.50	38.49	0.73
PCC-Expr	5	13.00	42.81	48.86
QUIC Cubic	5	79.28	67.84	1.54
SCReAM	5	0.21	30.92	0.00
Sprout	5	11.79	36.62	0.04
TaoVA-100x	0	N/A	N/A	N/A
TCP Vegas	5	69.60	32.16	0.82
Verus	5	56.54	73.27	36.44
PCC-Vivace	5	84.24	34.02	0.02
WebRTC media	5	0.05	31.47	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-03-08 21:20:58
End at: 2019-03-08 21:21:28
Local clock offset: -0.248 ms
Remote clock offset: -3.318 ms

# Below is generated by plot.py at 2019-03-08 23:27:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.66 Mbit/s
95th percentile per-packet one-way delay: 59.173 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 95.66 Mbit/s
95th percentile per-packet one-way delay: 59.173 ms
Loss rate: 1.35%
```

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

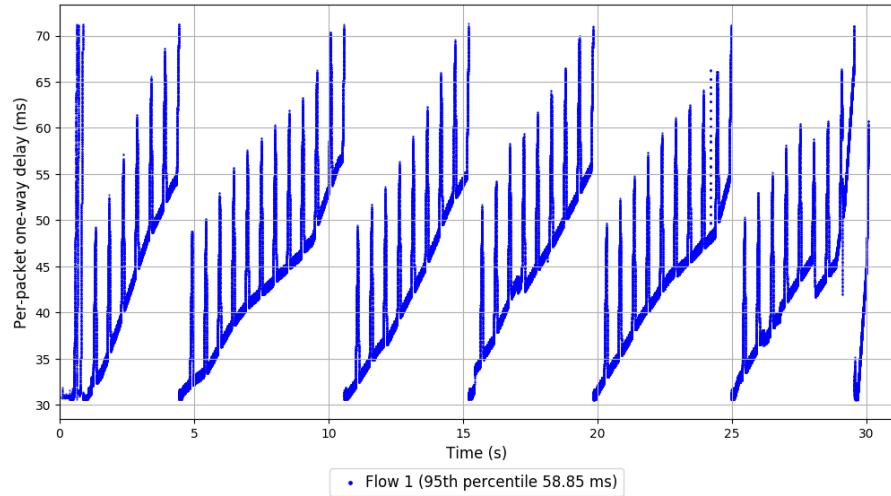
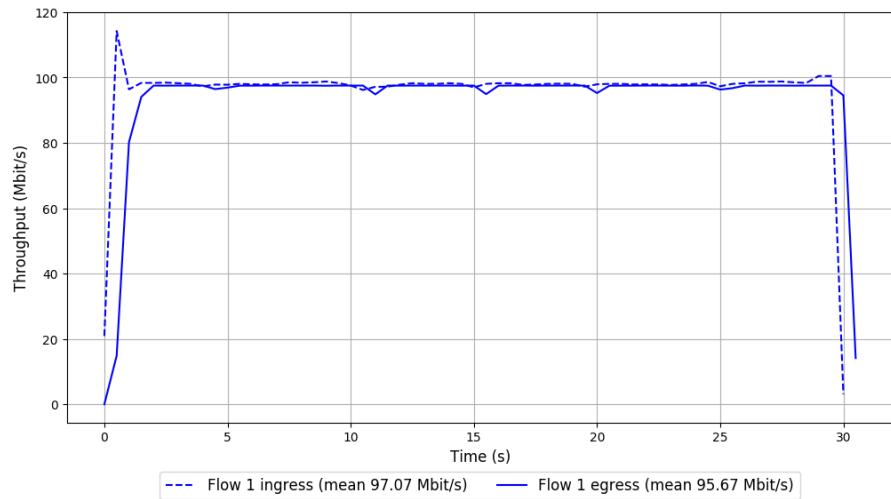


Run 2: Statistics of TCP BBR

```
Start at: 2019-03-08 21:45:16
End at: 2019-03-08 21:45:46
Local clock offset: -0.826 ms
Remote clock offset: -2.68 ms

# Below is generated by plot.py at 2019-03-08 23:27:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.67 Mbit/s
95th percentile per-packet one-way delay: 58.848 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 95.67 Mbit/s
95th percentile per-packet one-way delay: 58.848 ms
Loss rate: 1.34%
```

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

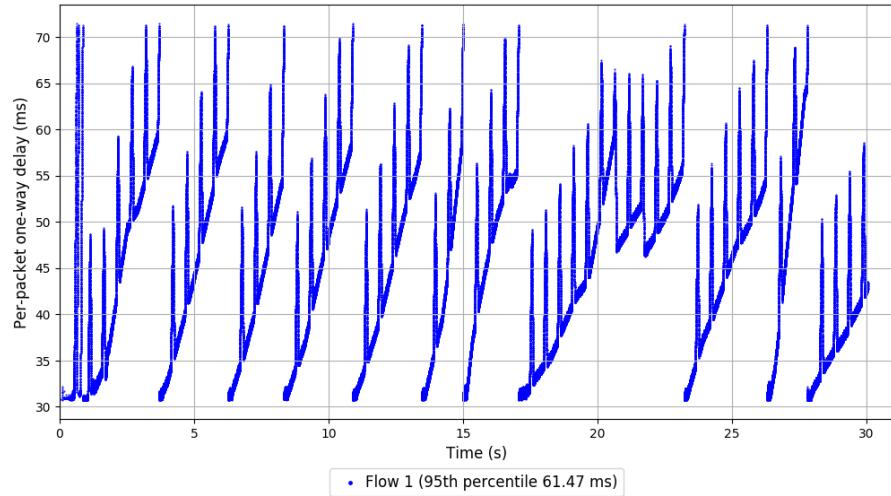
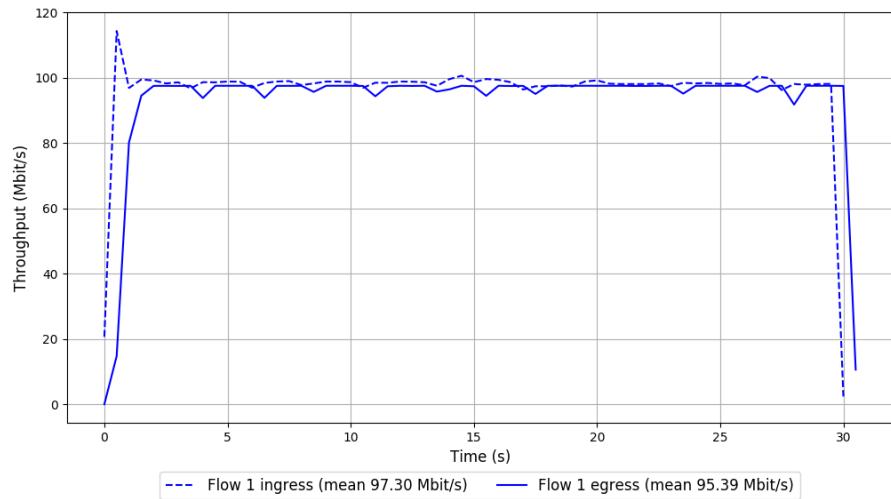


Run 3: Statistics of TCP BBR

```
Start at: 2019-03-08 22:09:51
End at: 2019-03-08 22:10:21
Local clock offset: -3.22 ms
Remote clock offset: -1.906 ms

# Below is generated by plot.py at 2019-03-08 23:27:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.39 Mbit/s
95th percentile per-packet one-way delay: 61.473 ms
Loss rate: 1.93%
-- Flow 1:
Average throughput: 95.39 Mbit/s
95th percentile per-packet one-way delay: 61.473 ms
Loss rate: 1.93%
```

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

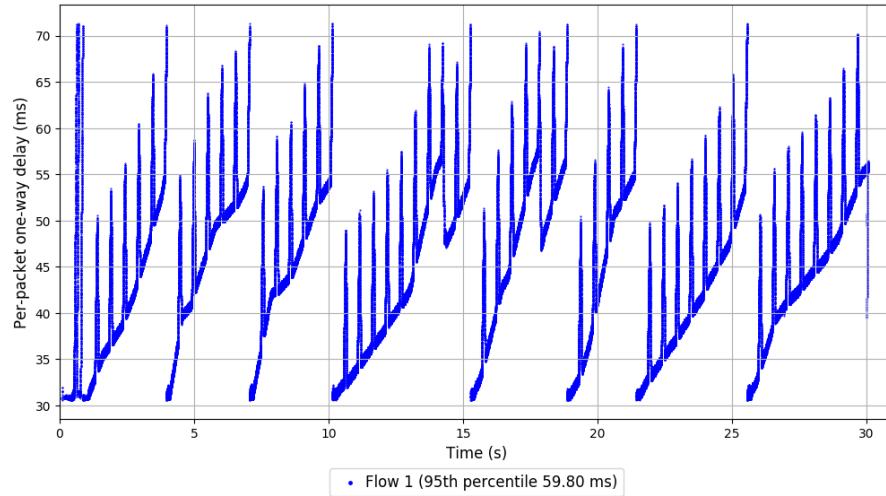
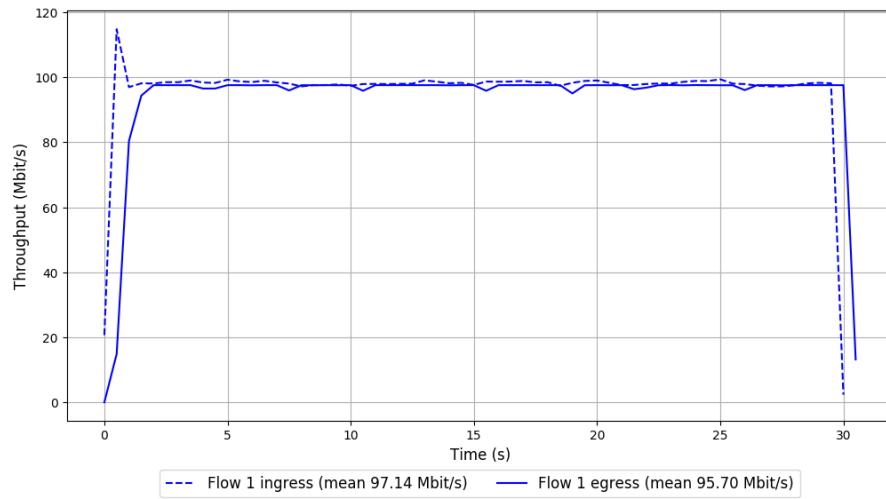


Run 4: Statistics of TCP BBR

```
Start at: 2019-03-08 22:35:34
End at: 2019-03-08 22:36:04
Local clock offset: -4.519 ms
Remote clock offset: -1.557 ms

# Below is generated by plot.py at 2019-03-08 23:27:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.70 Mbit/s
95th percentile per-packet one-way delay: 59.799 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 95.70 Mbit/s
95th percentile per-packet one-way delay: 59.799 ms
Loss rate: 1.41%
```

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

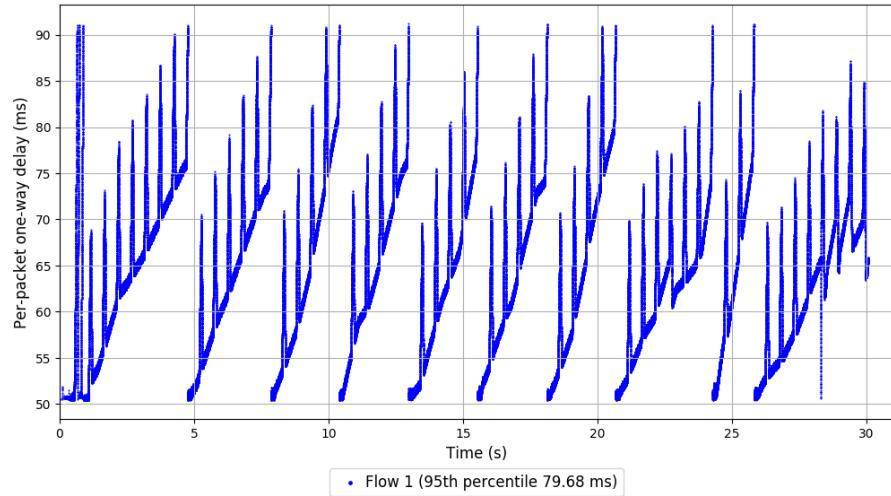
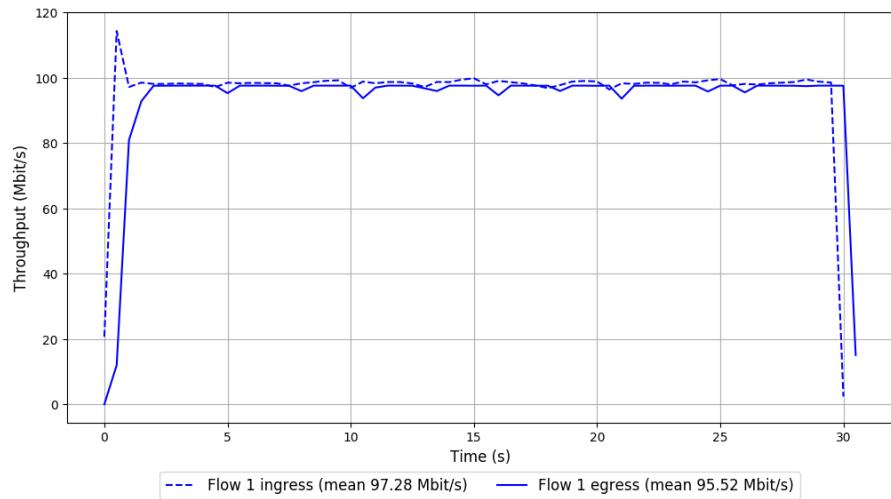


Run 5: Statistics of TCP BBR

```
Start at: 2019-03-08 23:01:39
End at: 2019-03-08 23:02:09
Local clock offset: 0.662 ms
Remote clock offset: 18.445 ms

# Below is generated by plot.py at 2019-03-08 23:27:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.52 Mbit/s
95th percentile per-packet one-way delay: 79.676 ms
Loss rate: 1.76%
-- Flow 1:
Average throughput: 95.52 Mbit/s
95th percentile per-packet one-way delay: 79.676 ms
Loss rate: 1.76%
```

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

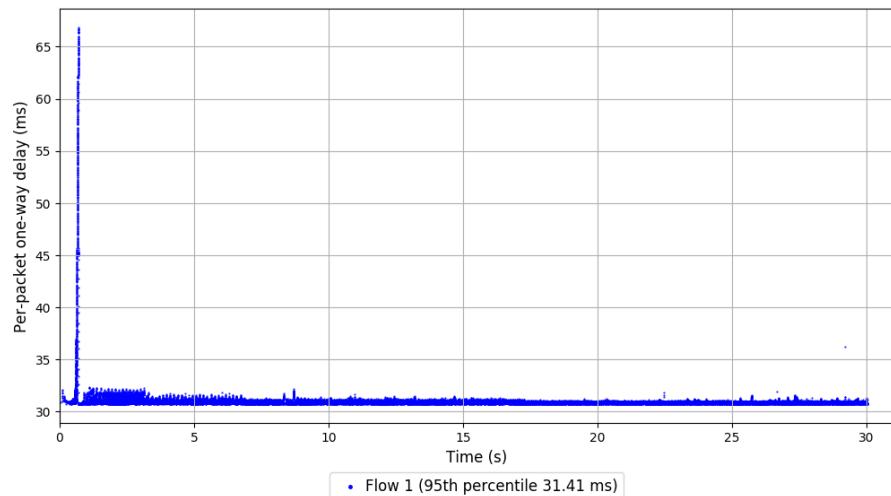
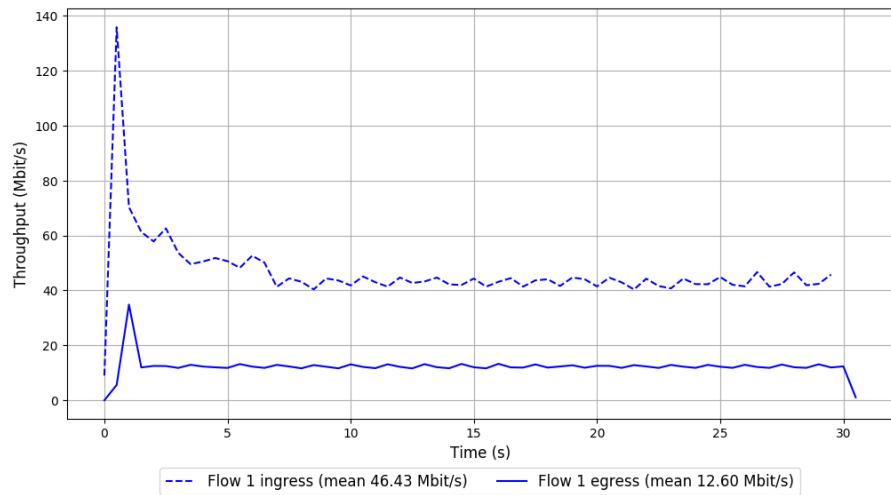


Run 1: Statistics of Copa

```
Start at: 2019-03-08 21:35:58
End at: 2019-03-08 21:36:28
Local clock offset: -0.482 ms
Remote clock offset: -2.958 ms

# Below is generated by plot.py at 2019-03-08 23:27:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.60 Mbit/s
95th percentile per-packet one-way delay: 31.408 ms
Loss rate: 72.87%
-- Flow 1:
Average throughput: 12.60 Mbit/s
95th percentile per-packet one-way delay: 31.408 ms
Loss rate: 72.87%
```

## Run 1: Report of Copa — Data Link

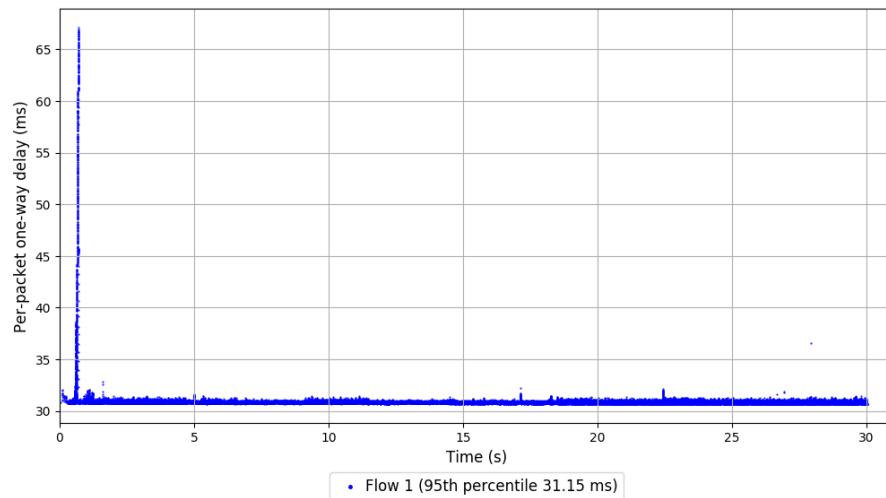
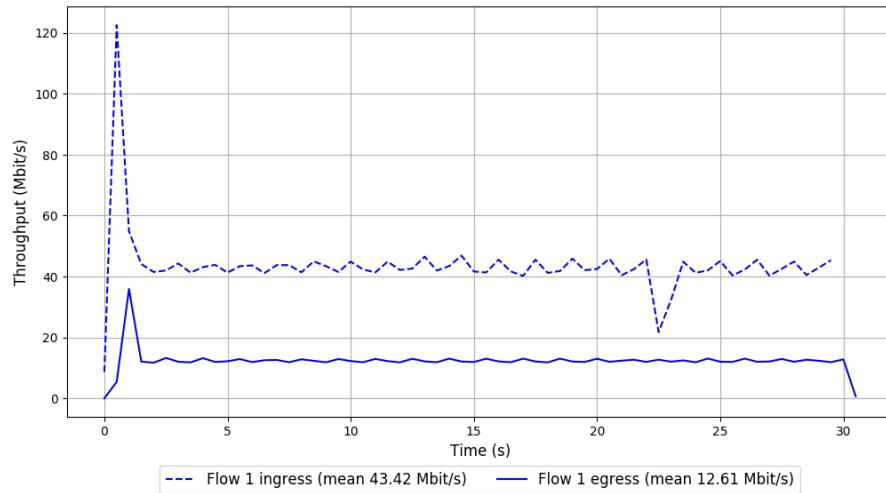


Run 2: Statistics of Copa

```
Start at: 2019-03-08 22:00:25
End at: 2019-03-08 22:00:55
Local clock offset: -2.669 ms
Remote clock offset: -2.179 ms

# Below is generated by plot.py at 2019-03-08 23:27:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 31.149 ms
Loss rate: 70.96%
-- Flow 1:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 31.149 ms
Loss rate: 70.96%
```

## Run 2: Report of Copa — Data Link

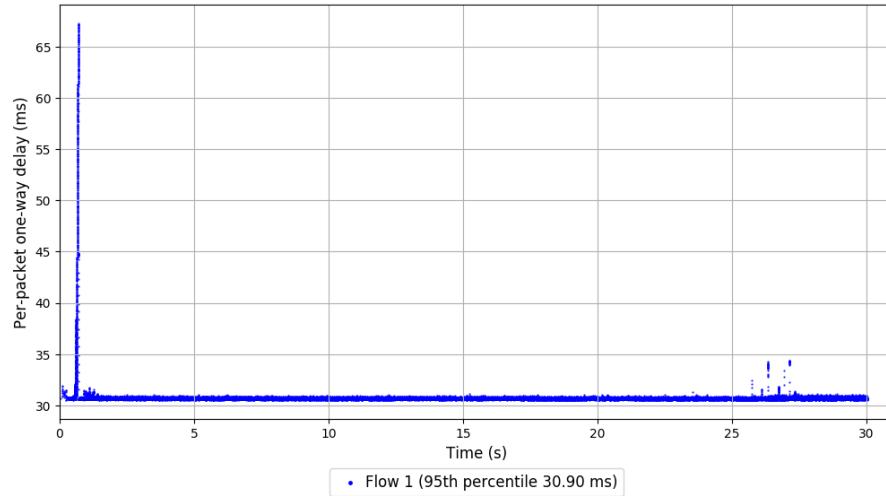
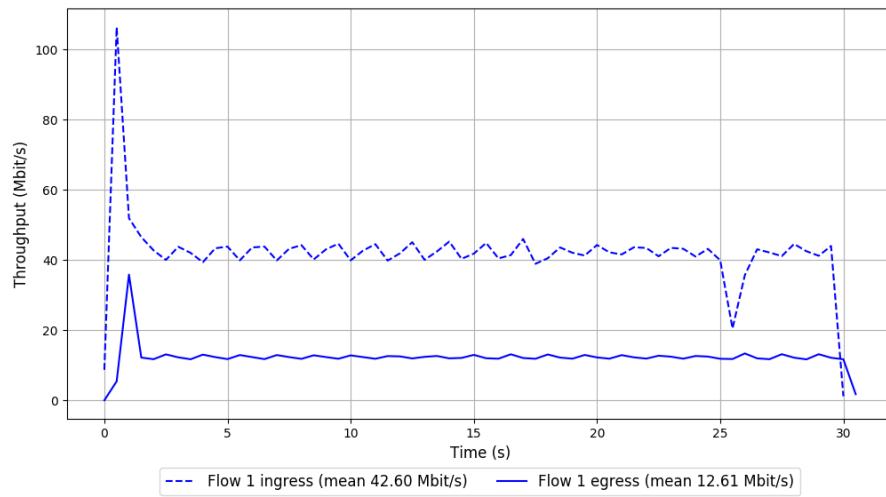


Run 3: Statistics of Copa

```
Start at: 2019-03-08 22:25:37
End at: 2019-03-08 22:26:07
Local clock offset: -4.011 ms
Remote clock offset: -1.789 ms

# Below is generated by plot.py at 2019-03-08 23:27:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 30.897 ms
Loss rate: 70.40%
-- Flow 1:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 30.897 ms
Loss rate: 70.40%
```

### Run 3: Report of Copa — Data Link

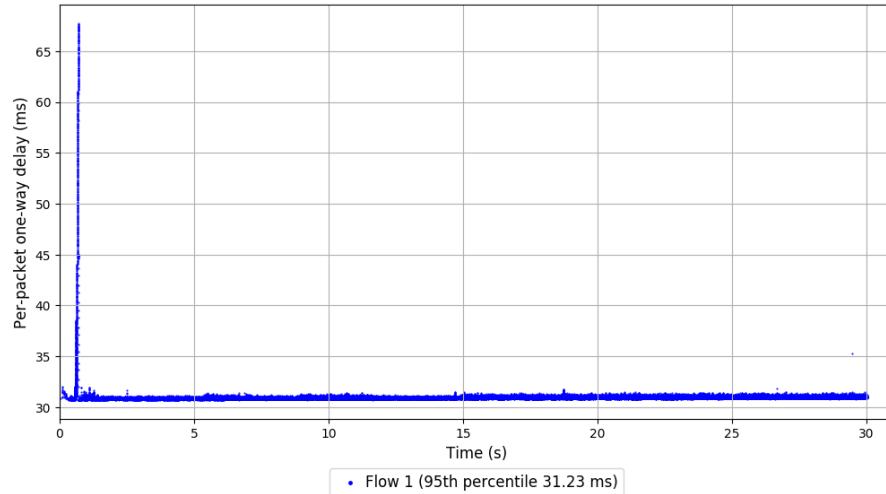
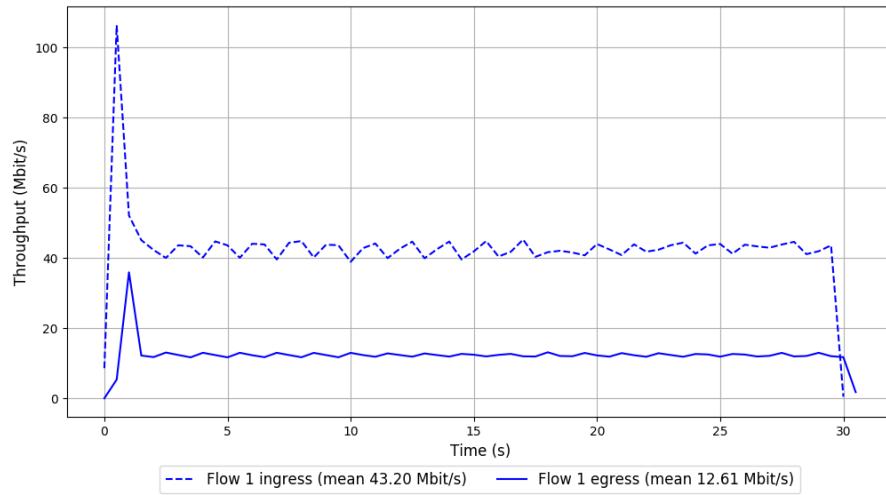


Run 4: Statistics of Copa

```
Start at: 2019-03-08 22:51:44
End at: 2019-03-08 22:52:14
Local clock offset: -1.401 ms
Remote clock offset: -1.32 ms

# Below is generated by plot.py at 2019-03-08 23:27:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 31.233 ms
Loss rate: 70.81%
-- Flow 1:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 31.233 ms
Loss rate: 70.81%
```

## Run 4: Report of Copa — Data Link

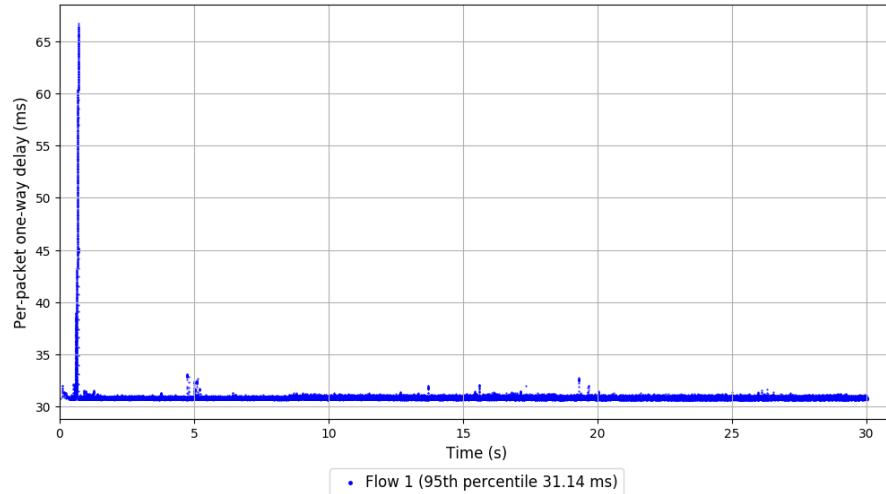
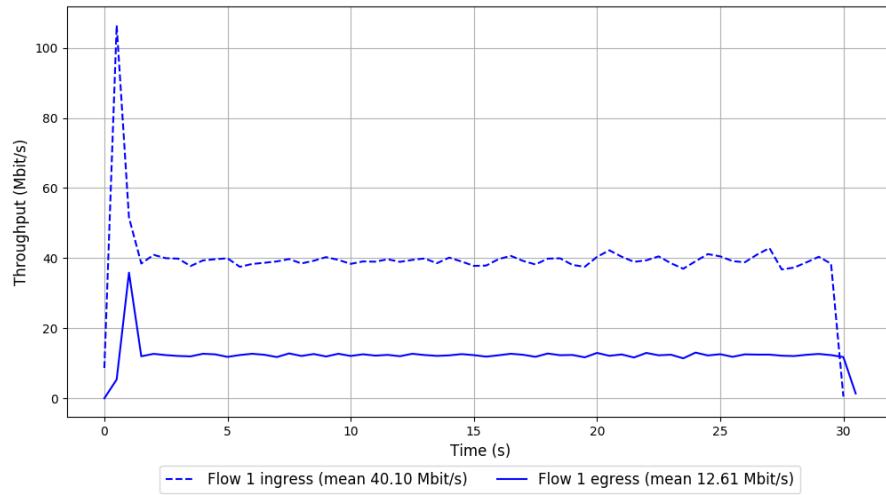


Run 5: Statistics of Copa

```
Start at: 2019-03-08 23:17:13
End at: 2019-03-08 23:17:44
Local clock offset: 1.587 ms
Remote clock offset: -1.148 ms

# Below is generated by plot.py at 2019-03-08 23:27:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 31.140 ms
Loss rate: 68.55%
-- Flow 1:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 31.140 ms
Loss rate: 68.55%
```

## Run 5: Report of Copa — Data Link

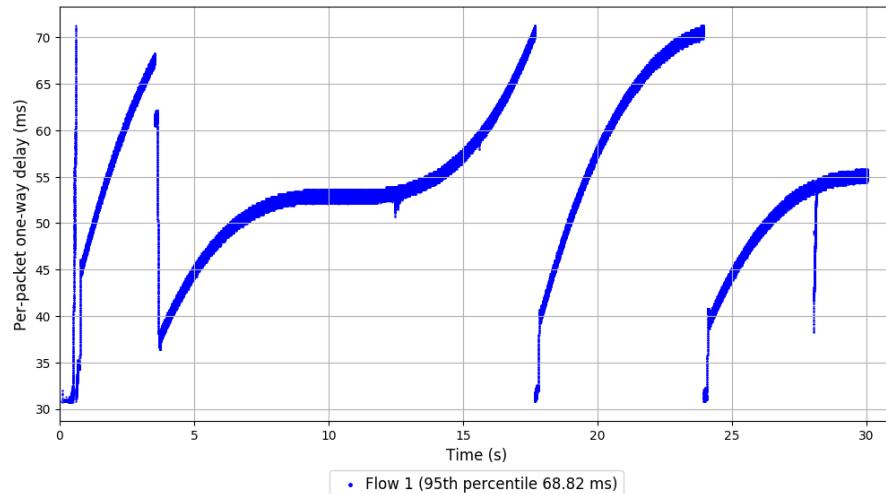
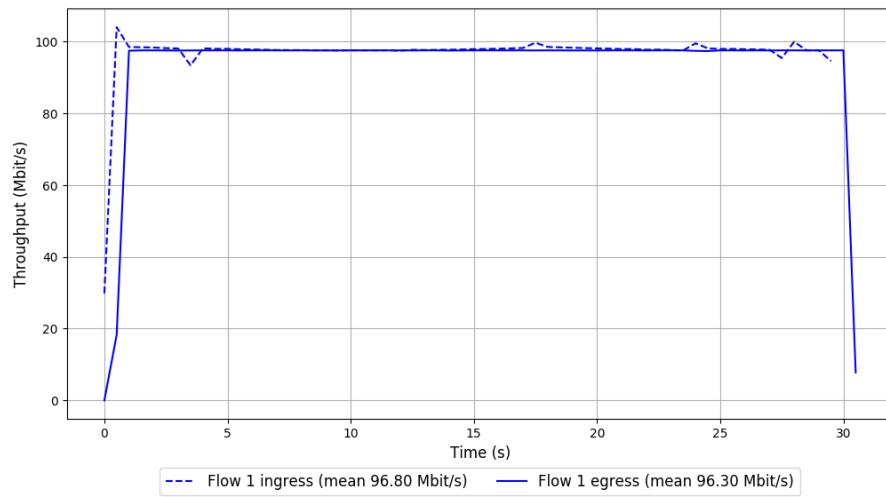


```
Run 1: Statistics of TCP Cubic

Start at: 2019-03-08 21:25:35
End at: 2019-03-08 21:26:05
Local clock offset: -0.3 ms
Remote clock offset: -3.229 ms

# Below is generated by plot.py at 2019-03-08 23:27:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.30 Mbit/s
95th percentile per-packet one-way delay: 68.821 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 96.30 Mbit/s
95th percentile per-packet one-way delay: 68.821 ms
Loss rate: 0.44%
```

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

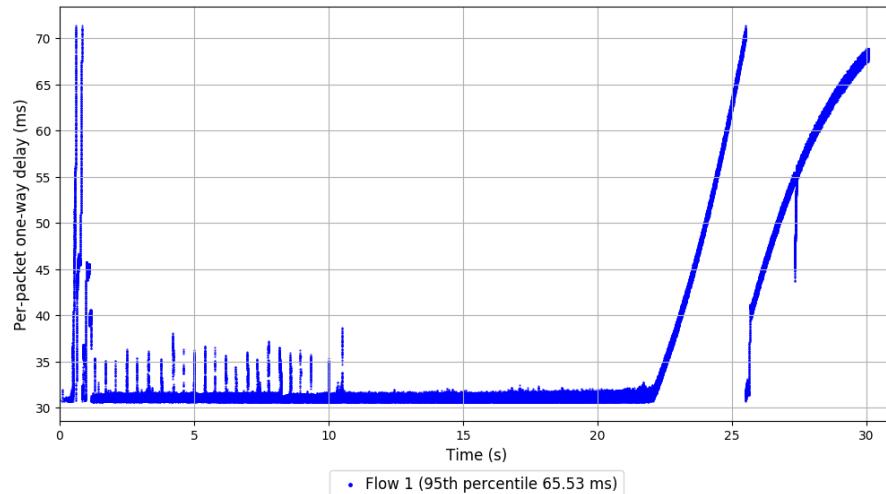
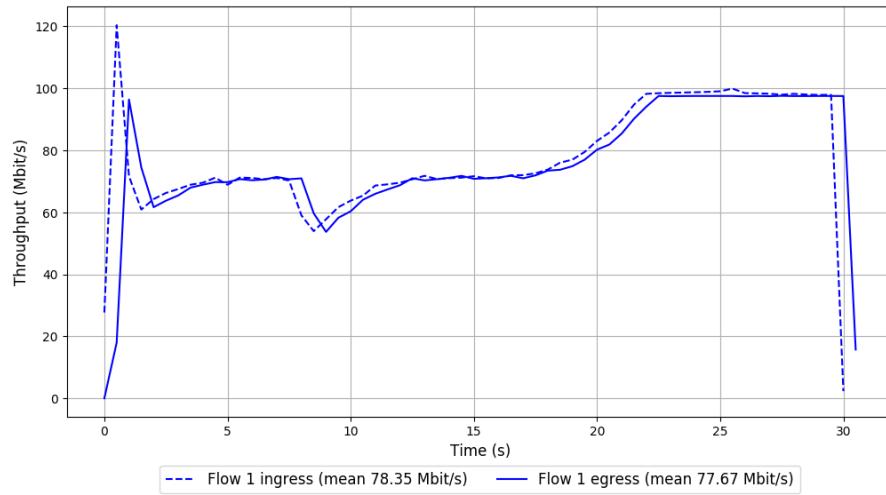


Run 2: Statistics of TCP Cubic

```
Start at: 2019-03-08 21:50:00
End at: 2019-03-08 21:50:30
Local clock offset: -1.615 ms
Remote clock offset: -2.542 ms

# Below is generated by plot.py at 2019-03-08 23:27:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.67 Mbit/s
95th percentile per-packet one-way delay: 65.531 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 77.67 Mbit/s
95th percentile per-packet one-way delay: 65.531 ms
Loss rate: 0.74%
```

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

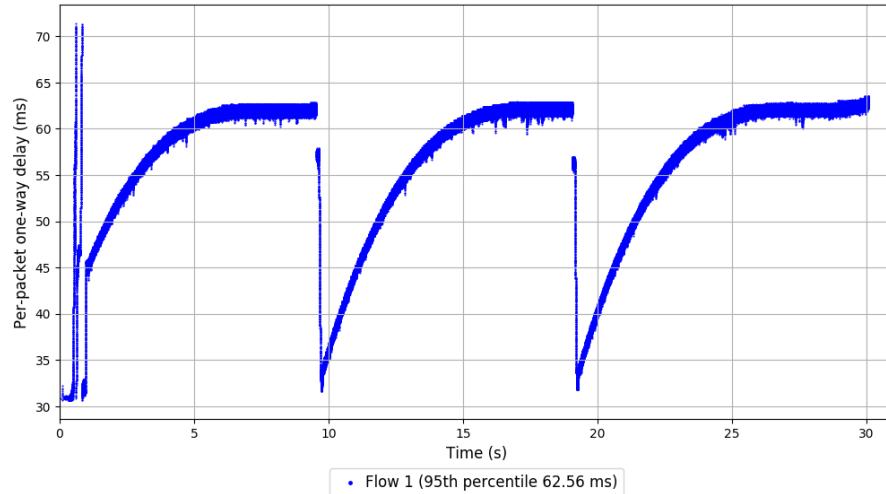
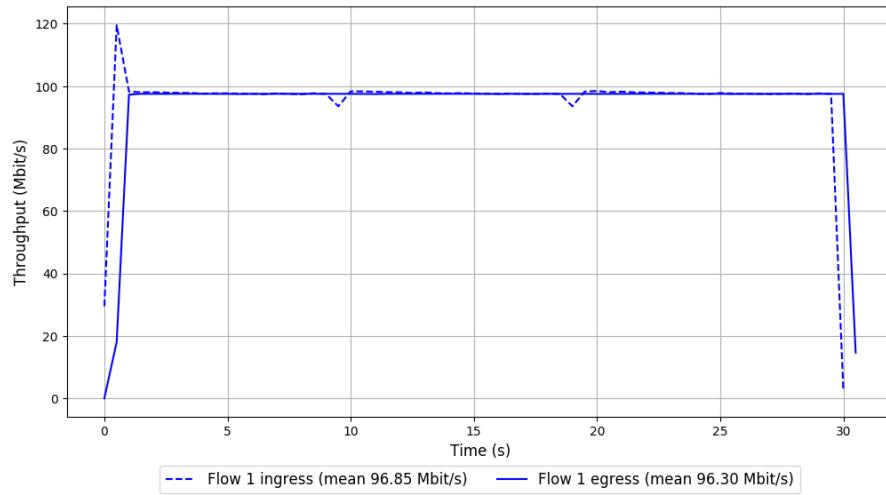


```
Run 3: Statistics of TCP Cubic
```

```
Start at: 2019-03-08 22:14:48
End at: 2019-03-08 22:15:18
Local clock offset: -3.463 ms
Remote clock offset: -1.891 ms

# Below is generated by plot.py at 2019-03-08 23:28:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.30 Mbit/s
95th percentile per-packet one-way delay: 62.565 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 96.30 Mbit/s
95th percentile per-packet one-way delay: 62.565 ms
Loss rate: 0.46%
```

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

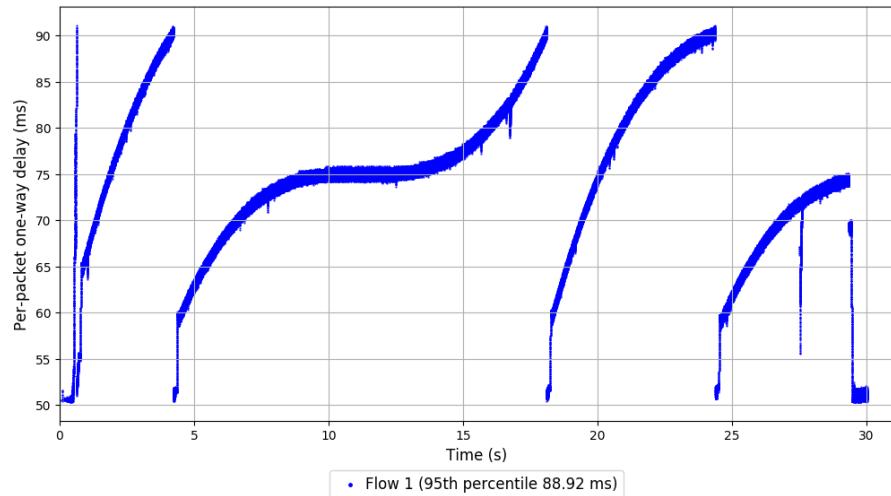
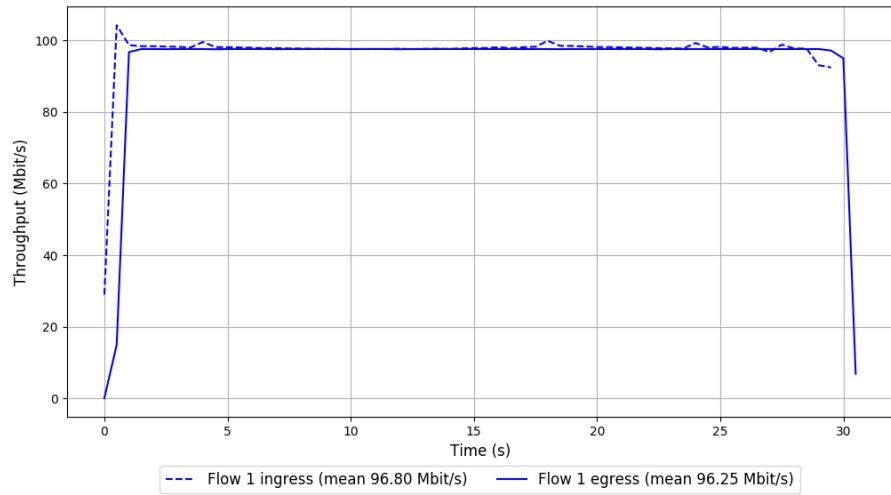


Run 4: Statistics of TCP Cubic

```
Start at: 2019-03-08 22:40:30
End at: 2019-03-08 22:41:00
Local clock offset: -4.752 ms
Remote clock offset: 18.39 ms

# Below is generated by plot.py at 2019-03-08 23:28:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.25 Mbit/s
95th percentile per-packet one-way delay: 88.924 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 96.25 Mbit/s
95th percentile per-packet one-way delay: 88.924 ms
Loss rate: 0.56%
```

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

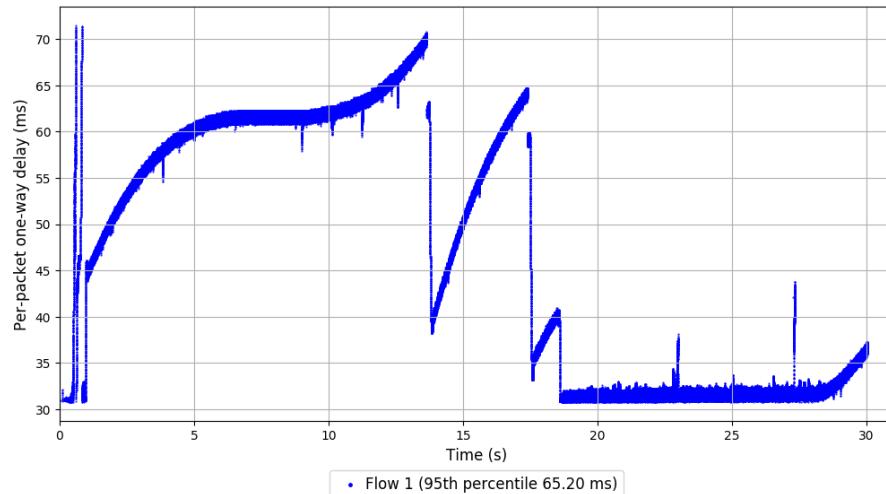
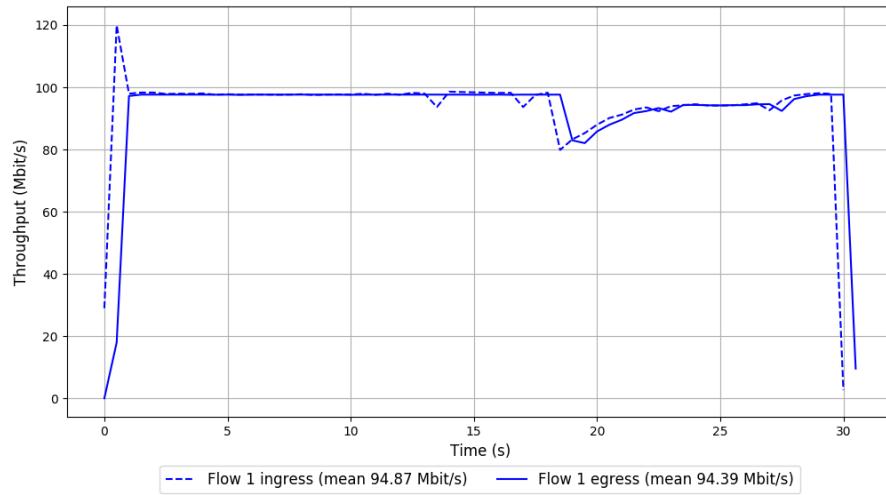


Run 5: Statistics of TCP Cubic

```
Start at: 2019-03-08 23:06:37
End at: 2019-03-08 23:07:07
Local clock offset: 1.262 ms
Remote clock offset: -1.151 ms

# Below is generated by plot.py at 2019-03-08 23:28:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.39 Mbit/s
95th percentile per-packet one-way delay: 65.202 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 94.39 Mbit/s
95th percentile per-packet one-way delay: 65.202 ms
Loss rate: 0.49%
```

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

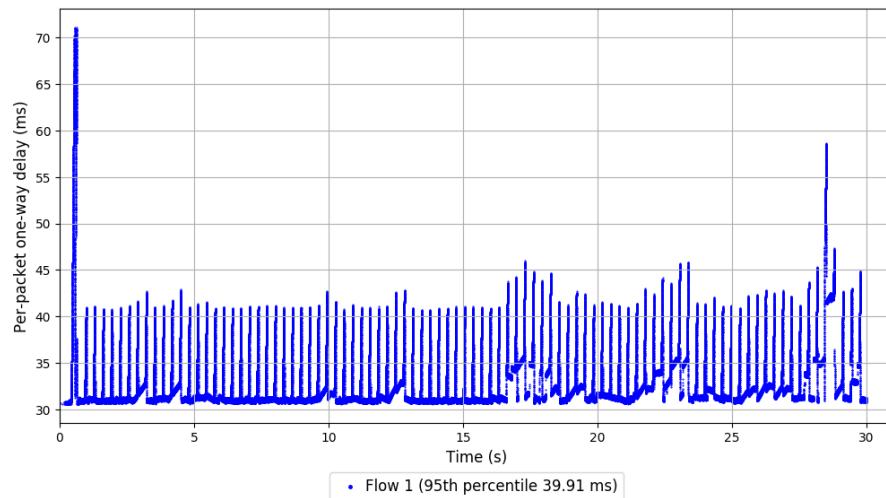
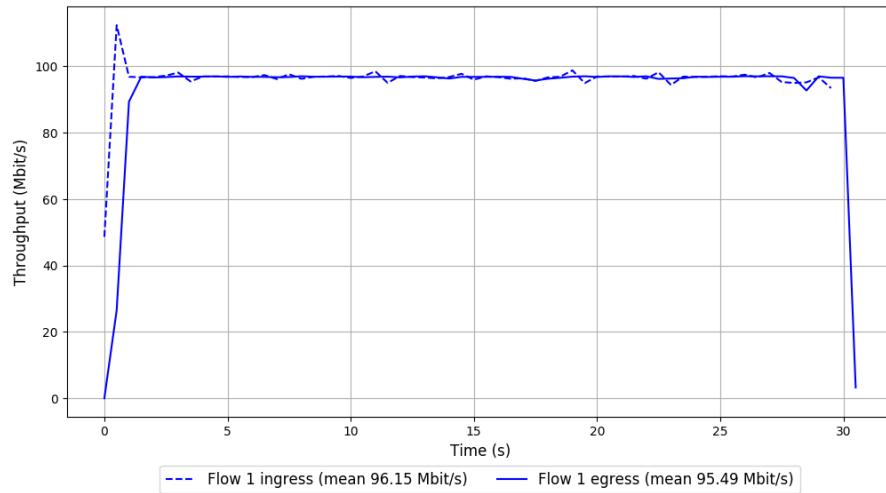


```
Run 1: Statistics of FillP
```

```
Start at: 2019-03-08 21:40:35
End at: 2019-03-08 21:41:06
Local clock offset: -0.542 ms
Remote clock offset: -2.846 ms

# Below is generated by plot.py at 2019-03-08 23:28:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.49 Mbit/s
95th percentile per-packet one-way delay: 39.909 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 95.49 Mbit/s
95th percentile per-packet one-way delay: 39.909 ms
Loss rate: 0.68%
```

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

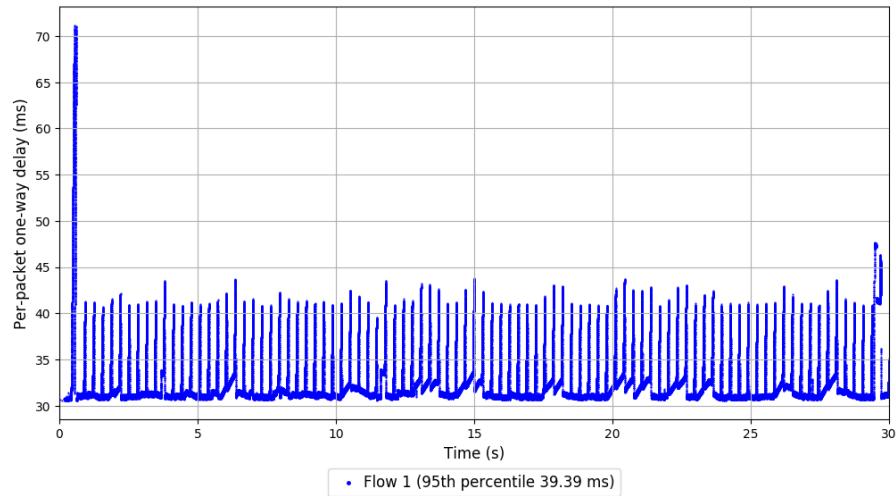
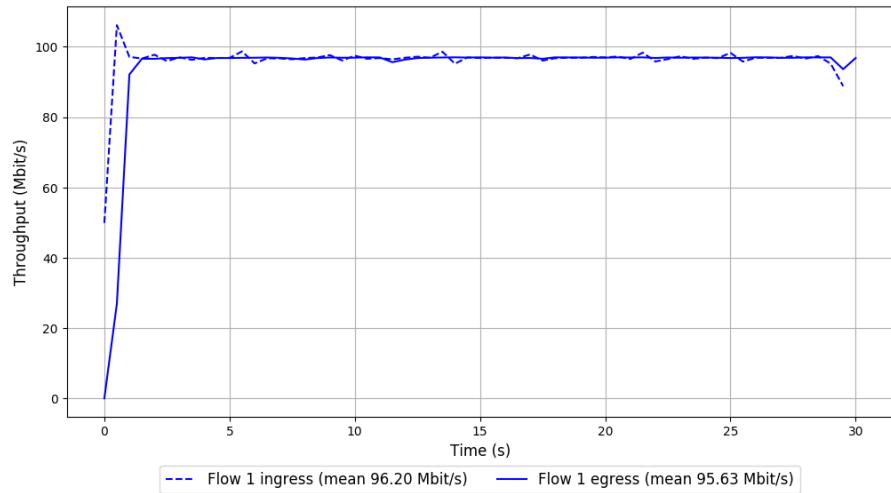


Run 2: Statistics of FillP

```
Start at: 2019-03-08 22:05:00
End at: 2019-03-08 22:05:30
Local clock offset: -2.926 ms
Remote clock offset: -2.081 ms

# Below is generated by plot.py at 2019-03-08 23:28:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 39.389 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 39.389 ms
Loss rate: 0.57%
```

## Run 2: Report of FillP — Data Link

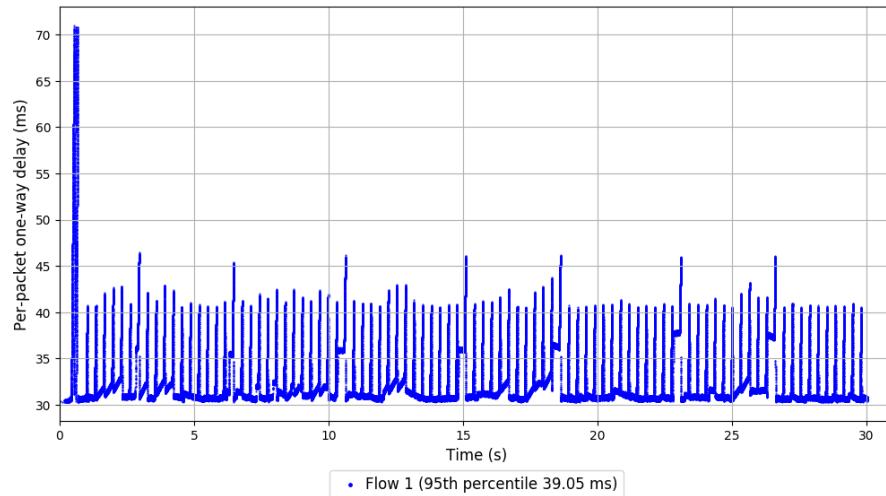
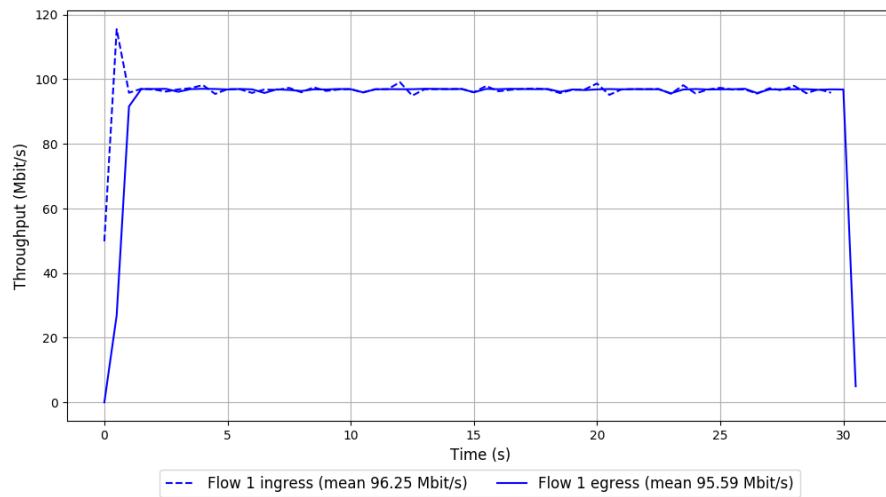


Run 3: Statistics of FillP

```
Start at: 2019-03-08 22:30:35
End at: 2019-03-08 22:31:05
Local clock offset: -4.256 ms
Remote clock offset: -1.697 ms

# Below is generated by plot.py at 2019-03-08 23:28:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.59 Mbit/s
95th percentile per-packet one-way delay: 39.049 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 95.59 Mbit/s
95th percentile per-packet one-way delay: 39.049 ms
Loss rate: 0.69%
```

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

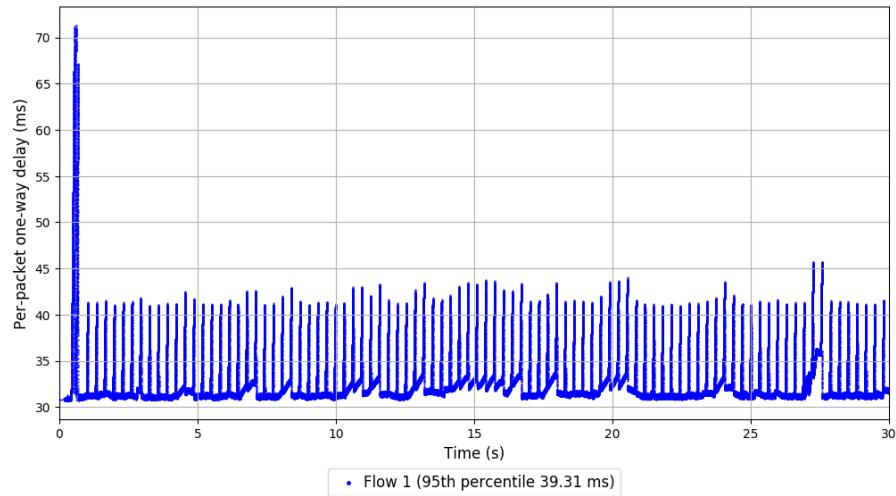
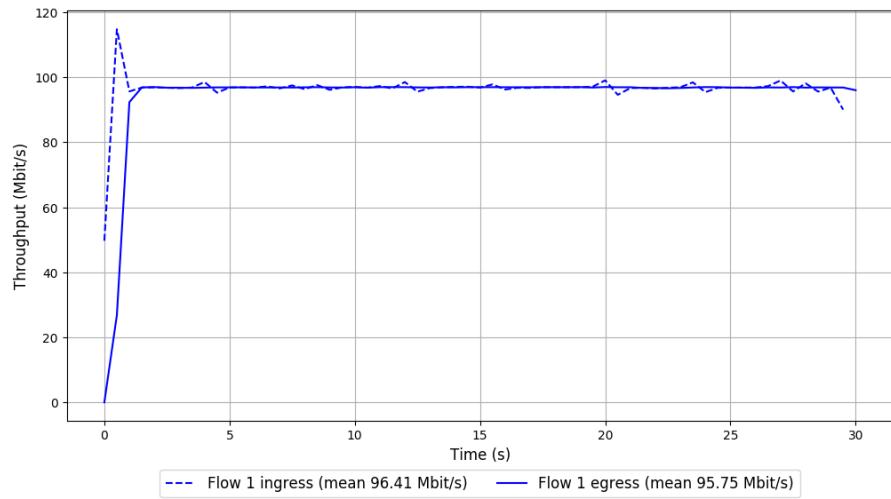


Run 4: Statistics of FillP

```
Start at: 2019-03-08 22:56:35
End at: 2019-03-08 22:57:05
Local clock offset: -0.172 ms
Remote clock offset: -1.111 ms

# Below is generated by plot.py at 2019-03-08 23:29:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.75 Mbit/s
95th percentile per-packet one-way delay: 39.306 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 95.75 Mbit/s
95th percentile per-packet one-way delay: 39.306 ms
Loss rate: 0.68%
```

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

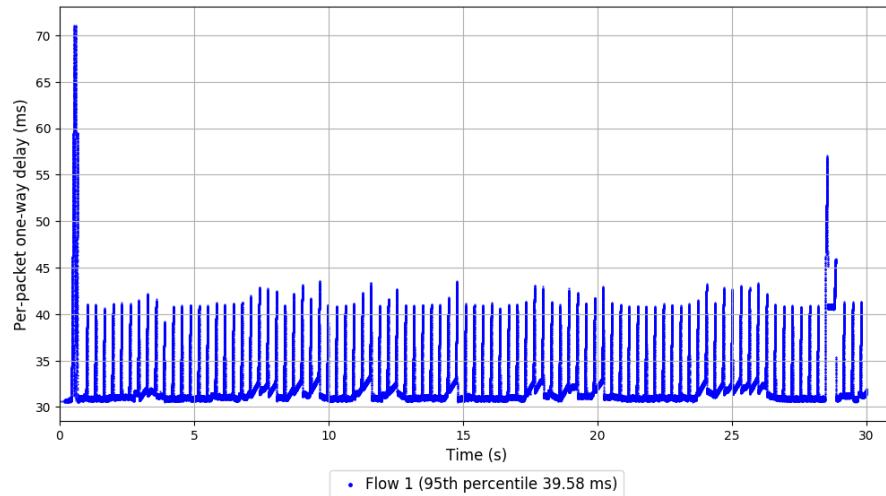
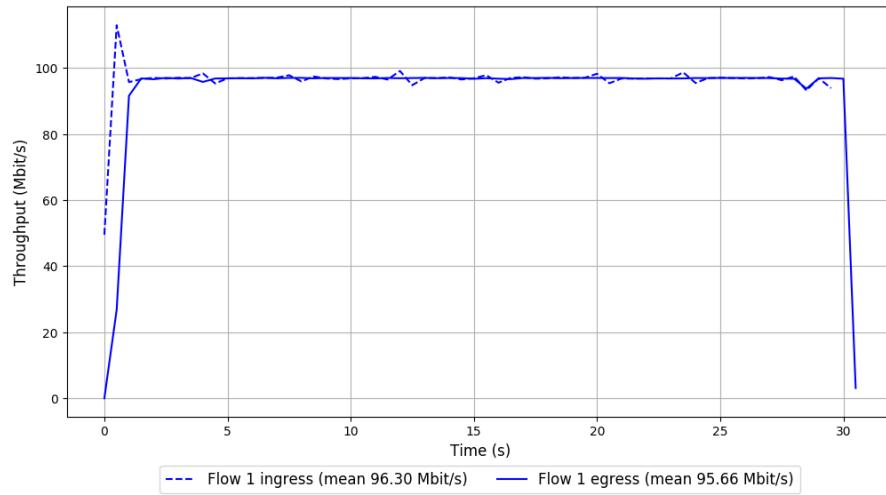


Run 5: Statistics of FillP

```
Start at: 2019-03-08 23:21:58
End at: 2019-03-08 23:22:28
Local clock offset: 1.294 ms
Remote clock offset: -1.126 ms

# Below is generated by plot.py at 2019-03-08 23:29:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.66 Mbit/s
95th percentile per-packet one-way delay: 39.575 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 95.66 Mbit/s
95th percentile per-packet one-way delay: 39.575 ms
Loss rate: 0.66%
```

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

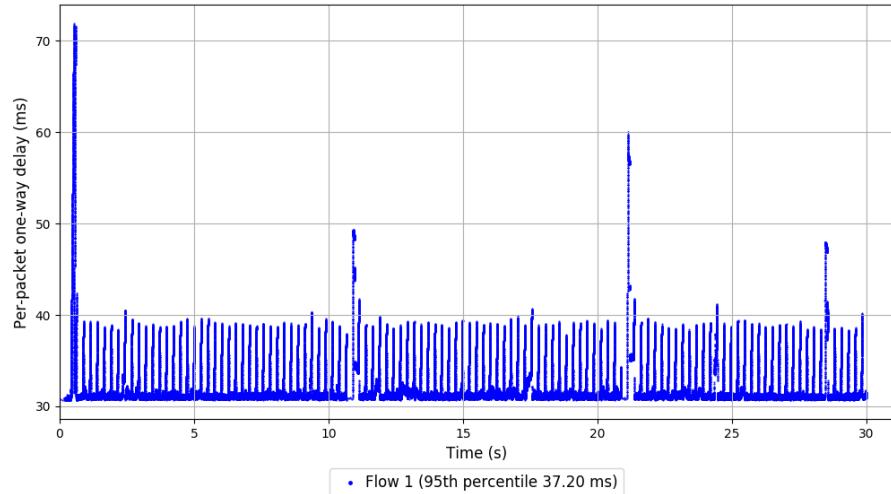
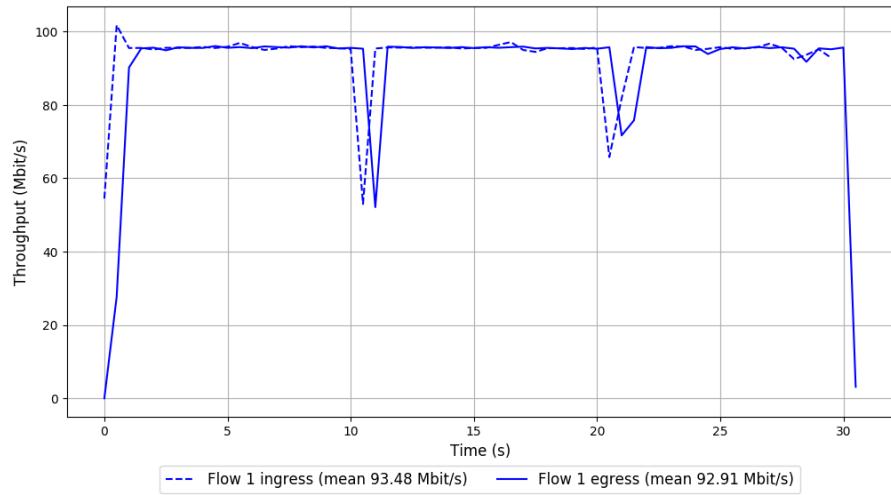


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-03-08 21:30:16
End at: 2019-03-08 21:30:46
Local clock offset: -0.38 ms
Remote clock offset: -3.128 ms

# Below is generated by plot.py at 2019-03-08 23:29:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.91 Mbit/s
95th percentile per-packet one-way delay: 37.205 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 92.91 Mbit/s
95th percentile per-packet one-way delay: 37.205 ms
Loss rate: 0.61%
```

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

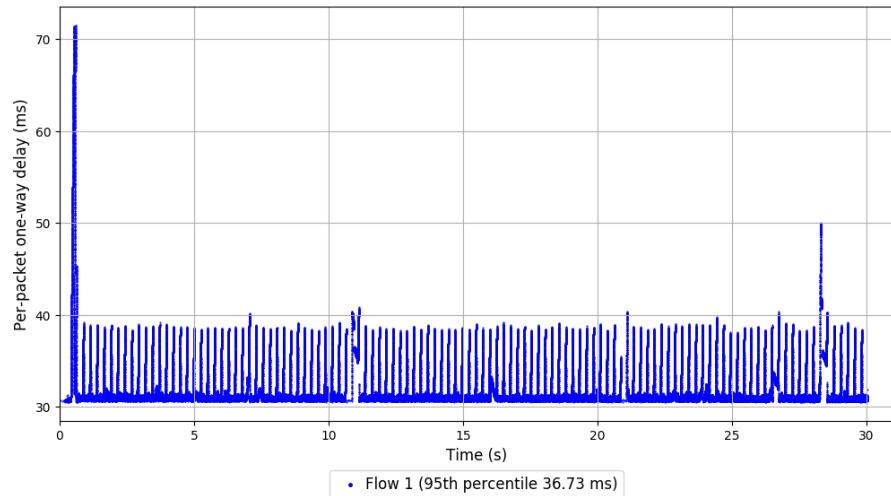
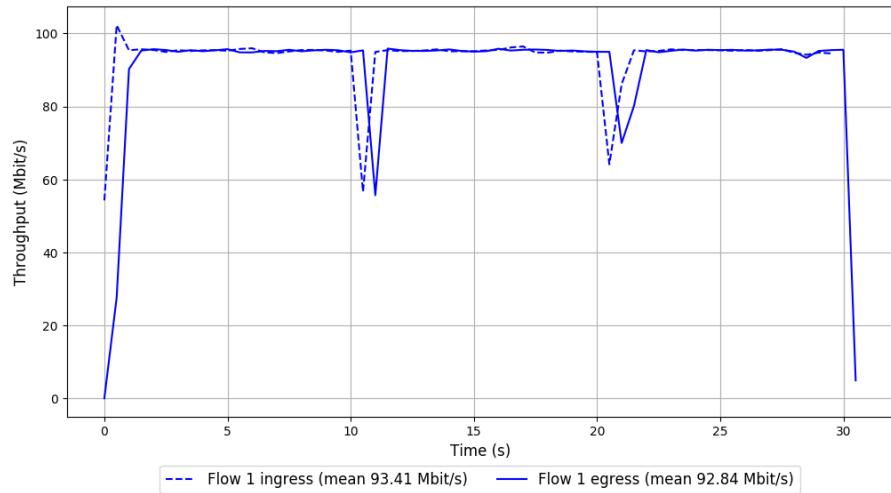


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-03-08 21:54:41
End at: 2019-03-08 21:55:11
Local clock offset: -2.171 ms
Remote clock offset: -2.37 ms

# Below is generated by plot.py at 2019-03-08 23:29:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.84 Mbit/s
95th percentile per-packet one-way delay: 36.726 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 92.84 Mbit/s
95th percentile per-packet one-way delay: 36.726 ms
Loss rate: 0.60%
```

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

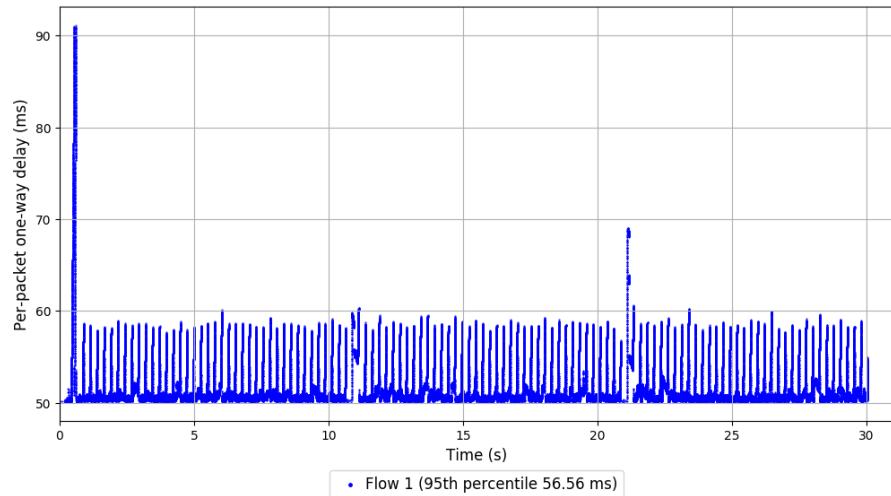
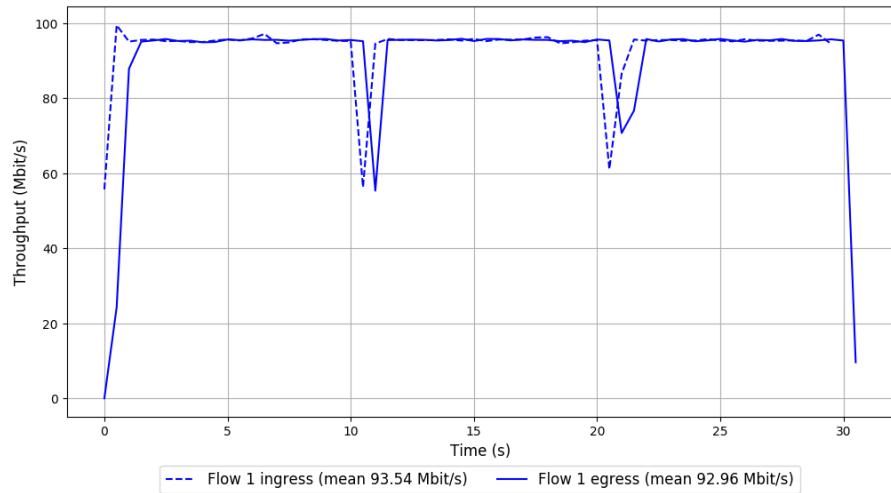


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-03-08 22:19:41
End at: 2019-03-08 22:20:11
Local clock offset: -3.722 ms
Remote clock offset: 17.791 ms

# Below is generated by plot.py at 2019-03-08 23:30:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.96 Mbit/s
95th percentile per-packet one-way delay: 56.561 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 92.96 Mbit/s
95th percentile per-packet one-way delay: 56.561 ms
Loss rate: 0.61%
```

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

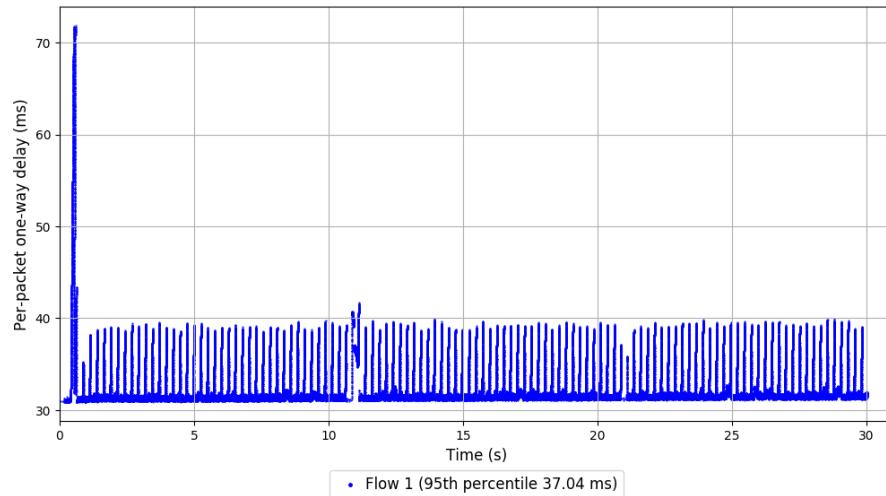
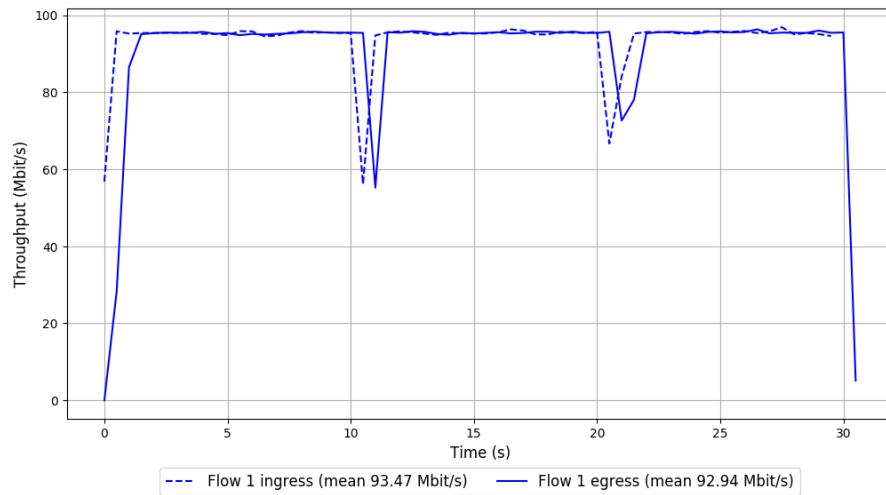


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-03-08 22:45:50
End at: 2019-03-08 22:46:20
Local clock offset: -4.104 ms
Remote clock offset: -1.278 ms

# Below is generated by plot.py at 2019-03-08 23:30:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.94 Mbit/s
95th percentile per-packet one-way delay: 37.042 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 92.94 Mbit/s
95th percentile per-packet one-way delay: 37.042 ms
Loss rate: 0.57%
```

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

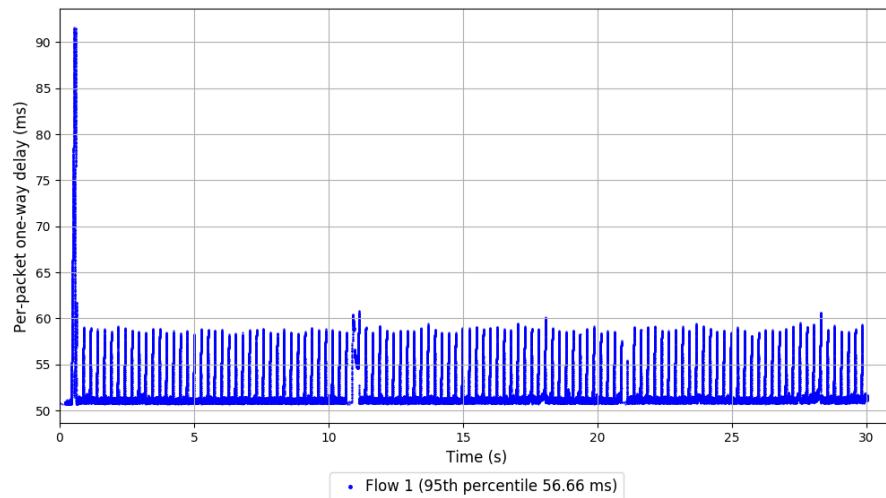
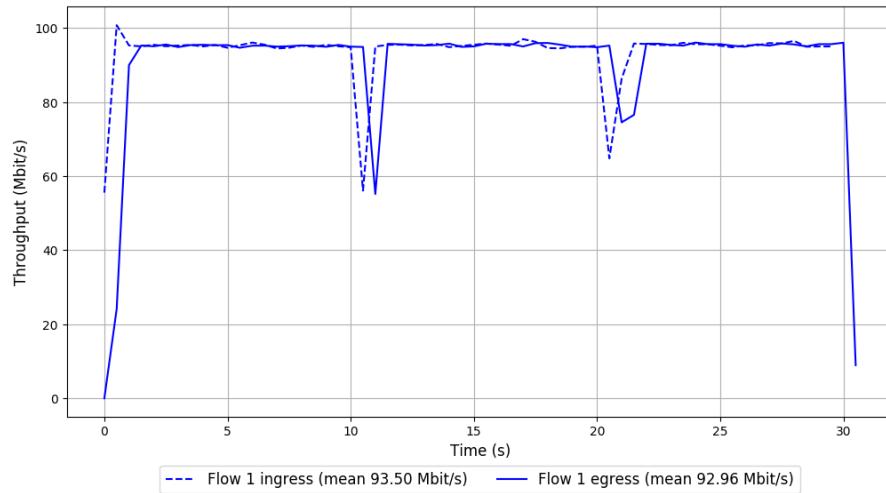


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-03-08 23:11:30
End at: 2019-03-08 23:12:00
Local clock offset: 1.689 ms
Remote clock offset: 18.867 ms

# Below is generated by plot.py at 2019-03-08 23:30:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.96 Mbit/s
95th percentile per-packet one-way delay: 56.656 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 92.96 Mbit/s
95th percentile per-packet one-way delay: 56.656 ms
Loss rate: 0.58%
```

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

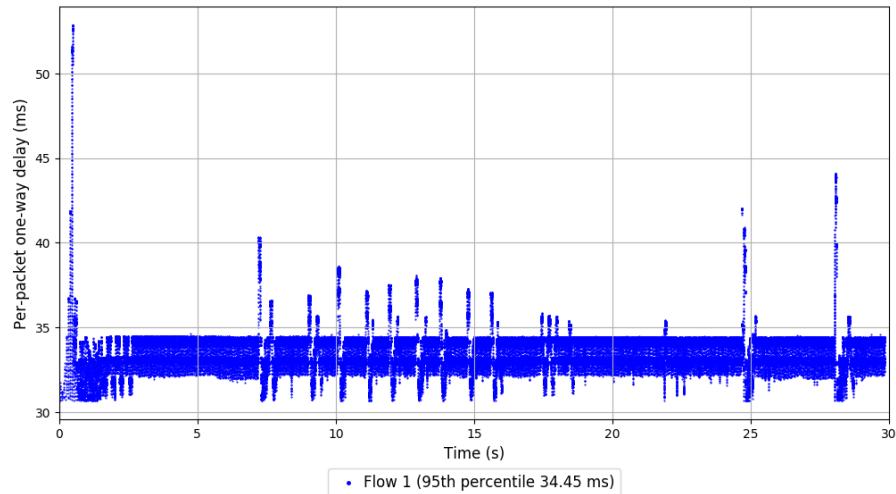
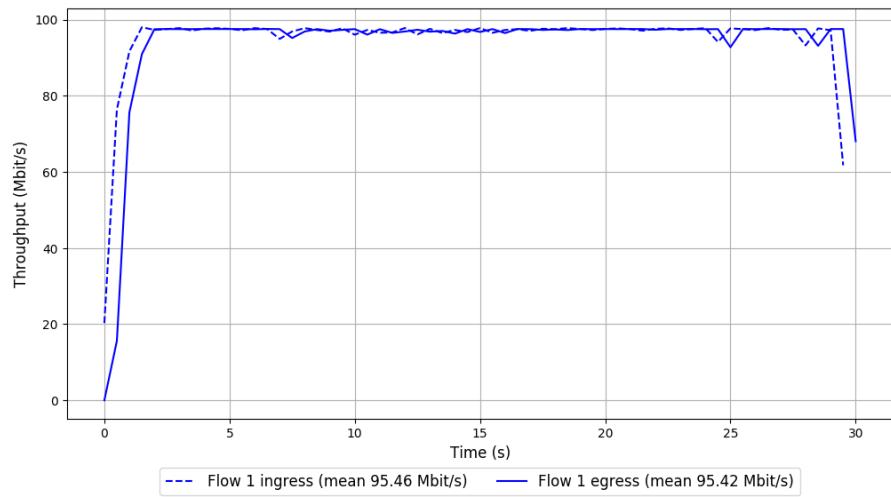


Run 1: Statistics of Indigo

```
Start at: 2019-03-08 21:37:06
End at: 2019-03-08 21:37:36
Local clock offset: -0.502 ms
Remote clock offset: -2.959 ms

# Below is generated by plot.py at 2019-03-08 23:30:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.42 Mbit/s
95th percentile per-packet one-way delay: 34.448 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 95.42 Mbit/s
95th percentile per-packet one-way delay: 34.448 ms
Loss rate: 0.03%
```

## Run 1: Report of Indigo — Data Link

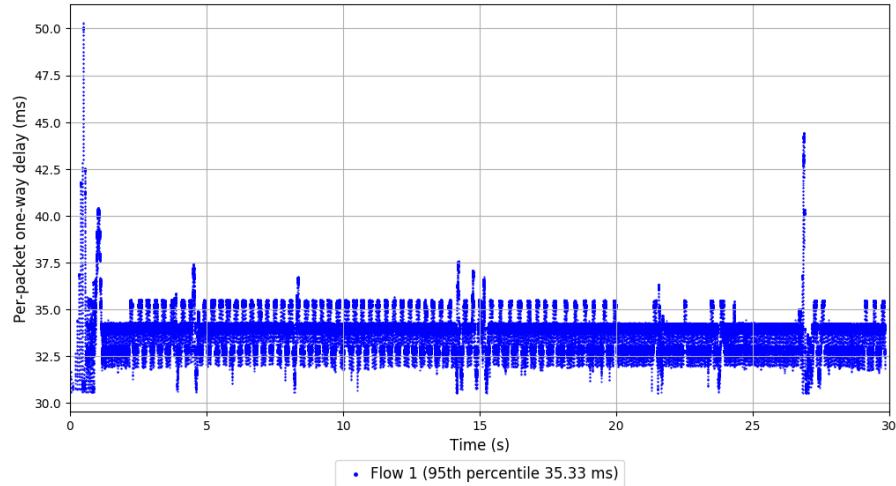
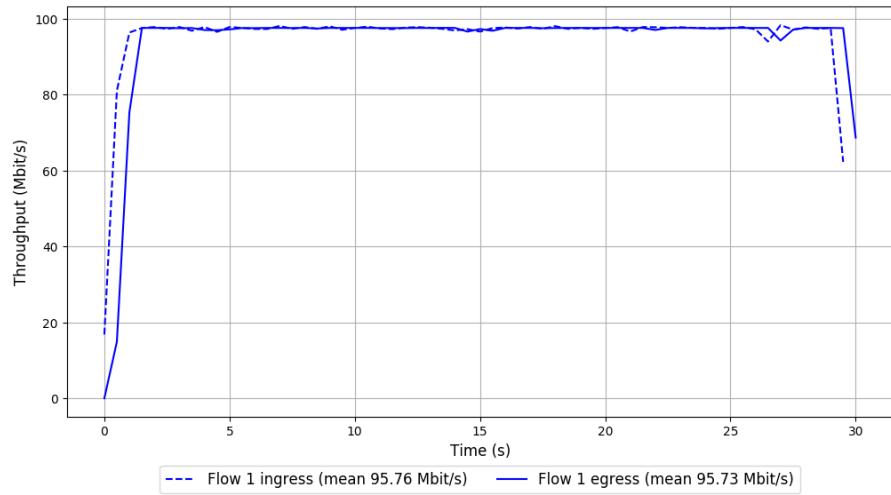


Run 2: Statistics of Indigo

```
Start at: 2019-03-08 22:01:32
End at: 2019-03-08 22:02:02
Local clock offset: -2.735 ms
Remote clock offset: -2.284 ms

# Below is generated by plot.py at 2019-03-08 23:30:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.73 Mbit/s
95th percentile per-packet one-way delay: 35.325 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 95.73 Mbit/s
95th percentile per-packet one-way delay: 35.325 ms
Loss rate: 0.02%
```

## Run 2: Report of Indigo — Data Link

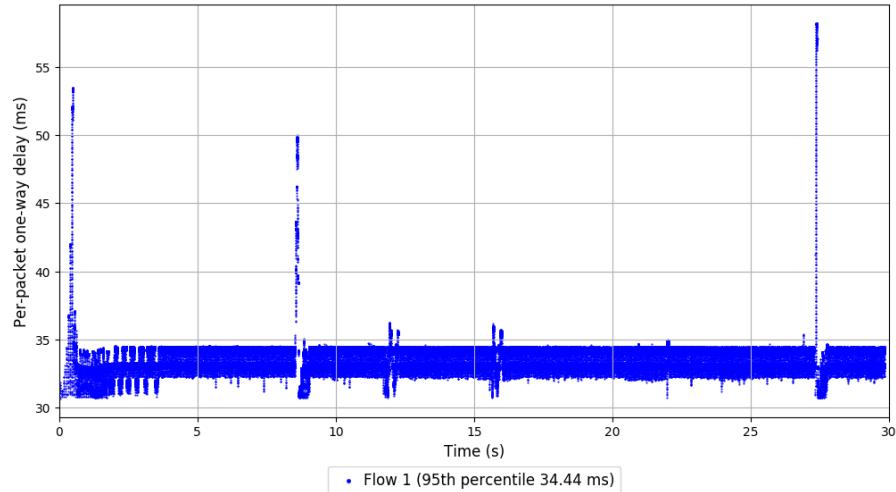
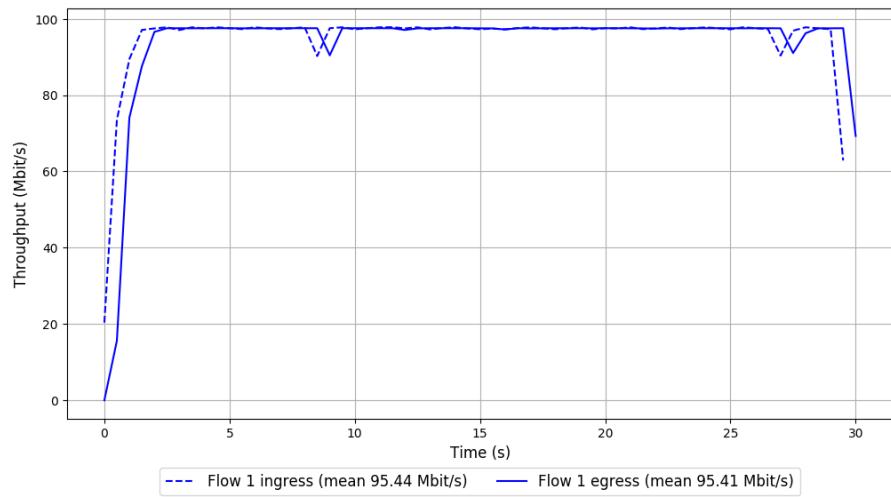


Run 3: Statistics of Indigo

```
Start at: 2019-03-08 22:26:49
End at: 2019-03-08 22:27:19
Local clock offset: -4.068 ms
Remote clock offset: -1.557 ms

# Below is generated by plot.py at 2019-03-08 23:30:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.41 Mbit/s
95th percentile per-packet one-way delay: 34.441 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 95.41 Mbit/s
95th percentile per-packet one-way delay: 34.441 ms
Loss rate: 0.02%
```

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

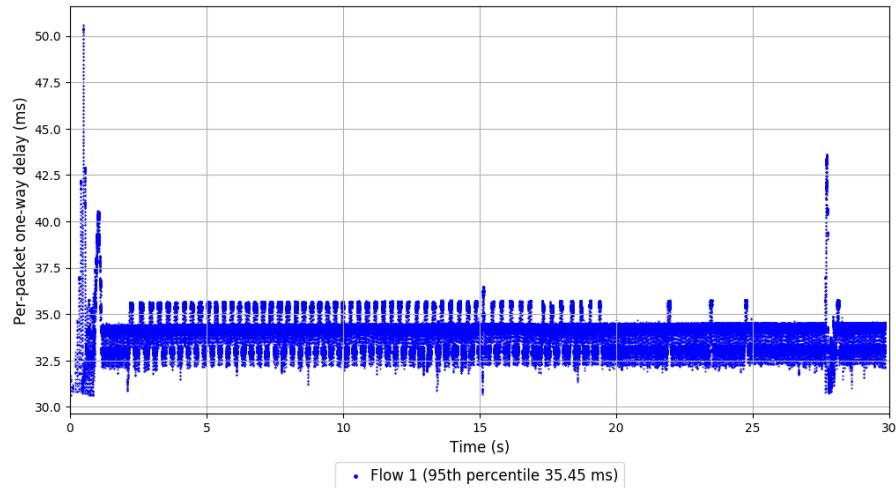
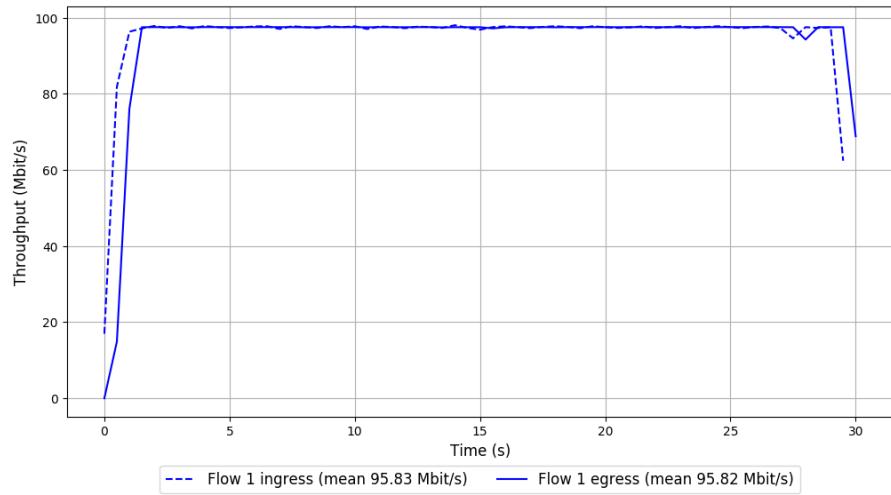


Run 4: Statistics of Indigo

```
Start at: 2019-03-08 22:52:52
End at: 2019-03-08 22:53:22
Local clock offset: -1.039 ms
Remote clock offset: -1.318 ms

# Below is generated by plot.py at 2019-03-08 23:30:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.82 Mbit/s
95th percentile per-packet one-way delay: 35.451 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.82 Mbit/s
95th percentile per-packet one-way delay: 35.451 ms
Loss rate: 0.00%
```

## Run 4: Report of Indigo — Data Link

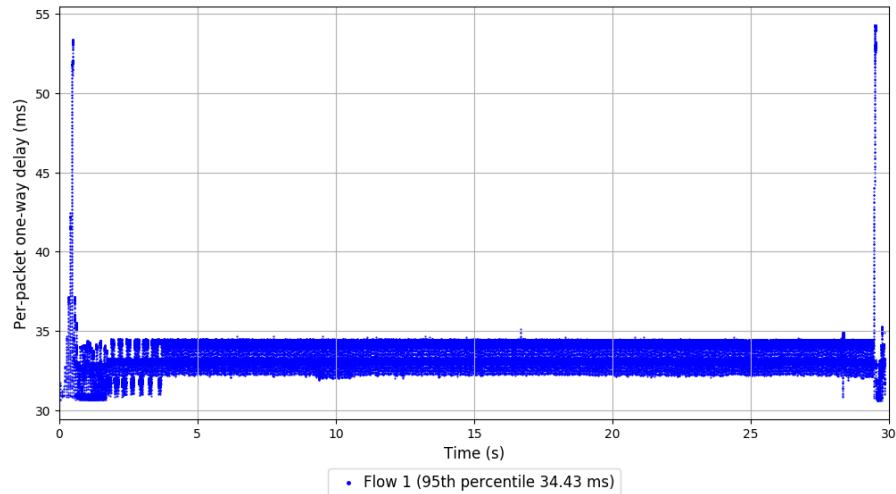
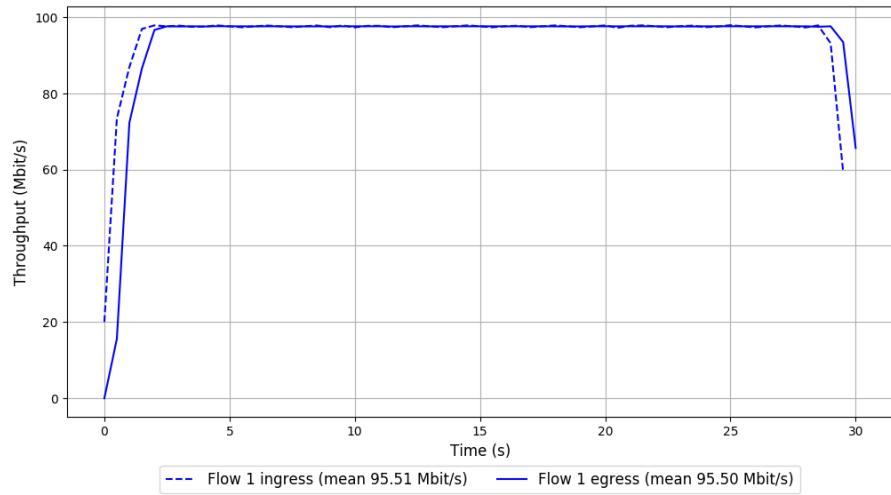


Run 5: Statistics of Indigo

```
Start at: 2019-03-08 23:18:21
End at: 2019-03-08 23:18:51
Local clock offset: 1.514 ms
Remote clock offset: -1.153 ms

# Below is generated by plot.py at 2019-03-08 23:31:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.50 Mbit/s
95th percentile per-packet one-way delay: 34.428 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.50 Mbit/s
95th percentile per-packet one-way delay: 34.428 ms
Loss rate: 0.00%
```

## Run 5: Report of Indigo — Data Link

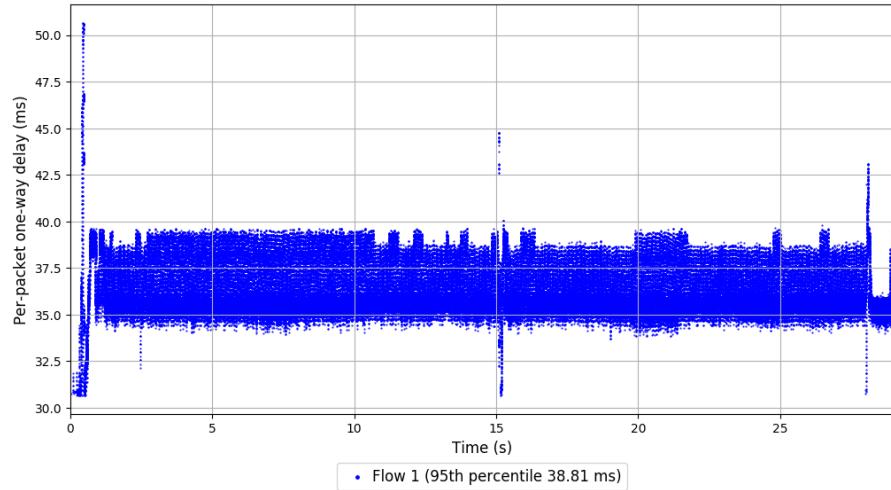
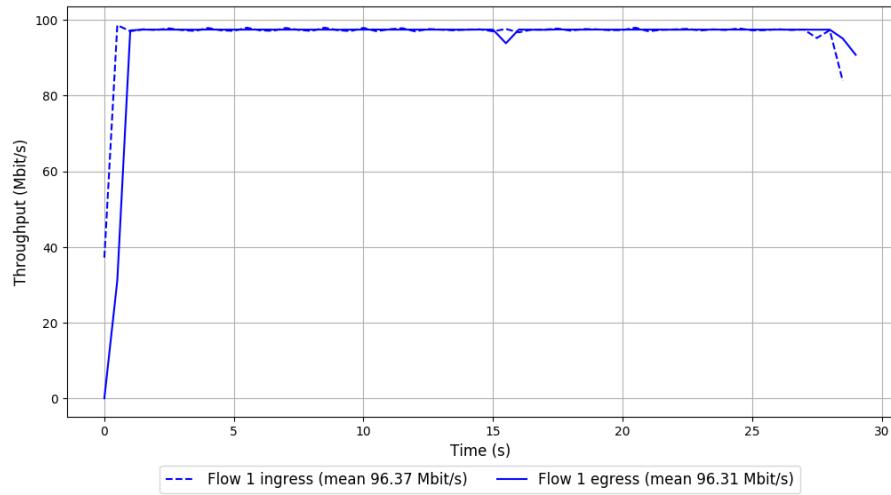


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-03-08 21:26:45
End at: 2019-03-08 21:27:15
Local clock offset: -0.337 ms
Remote clock offset: -3.253 ms

# Below is generated by plot.py at 2019-03-08 23:31:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.31 Mbit/s
95th percentile per-packet one-way delay: 38.810 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 96.31 Mbit/s
95th percentile per-packet one-way delay: 38.810 ms
Loss rate: 0.05%
```

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

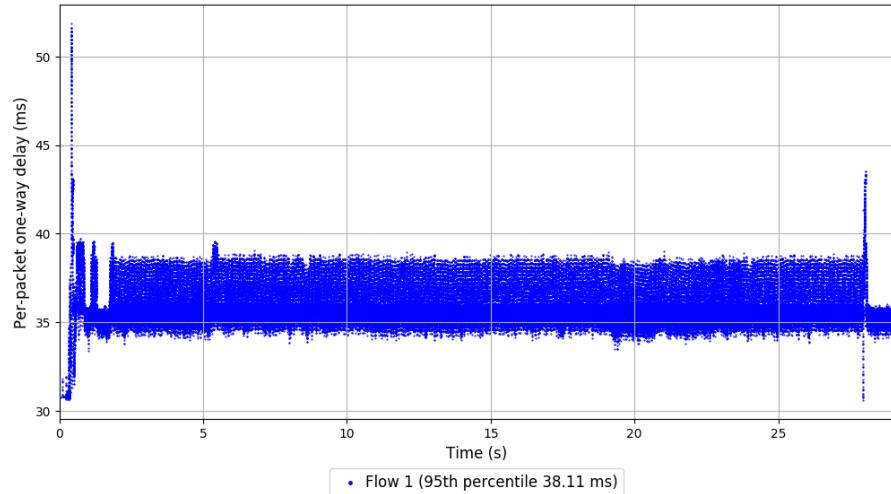
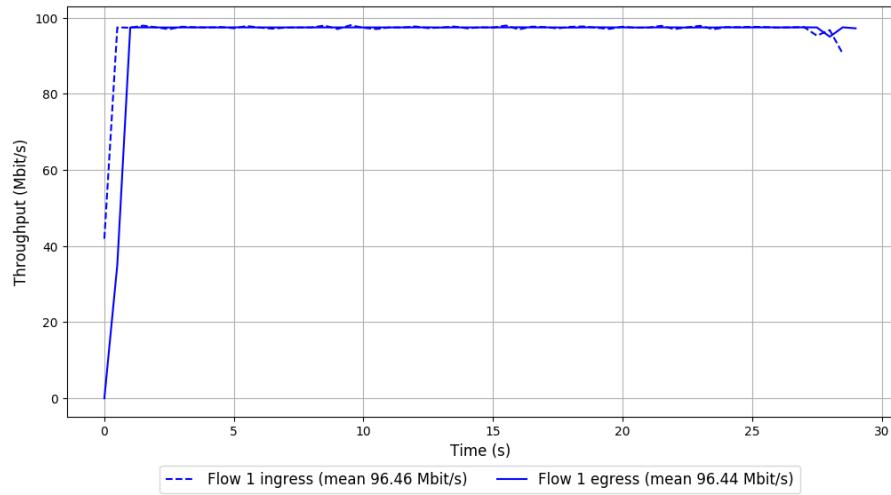


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-03-08 21:51:10
End at: 2019-03-08 21:51:40
Local clock offset: -1.757 ms
Remote clock offset: -2.518 ms

# Below is generated by plot.py at 2019-03-08 23:31:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.44 Mbit/s
95th percentile per-packet one-way delay: 38.113 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.44 Mbit/s
95th percentile per-packet one-way delay: 38.113 ms
Loss rate: 0.00%
```

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

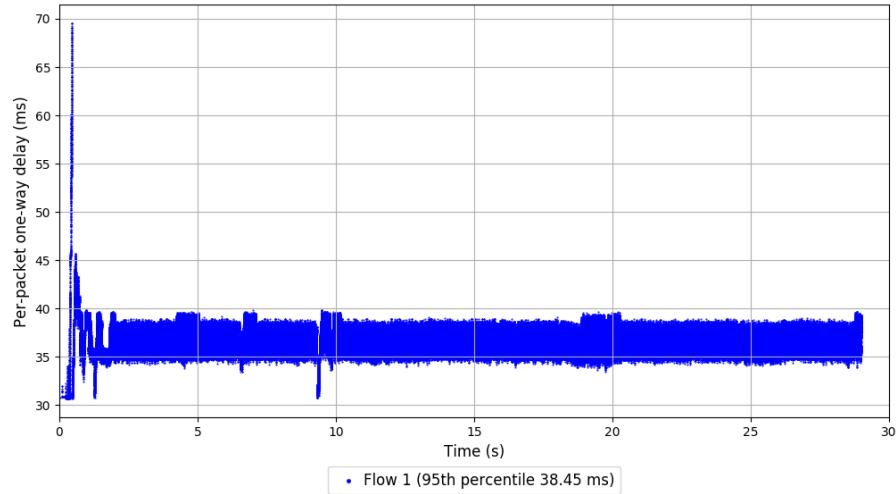
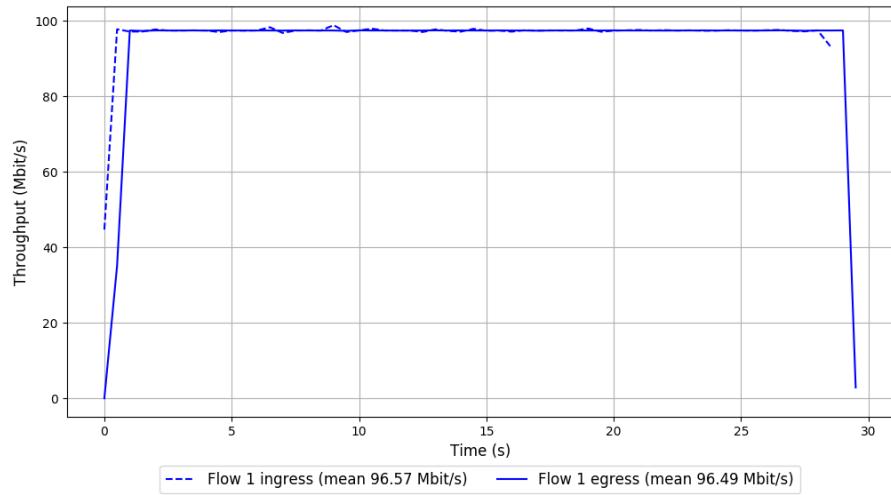


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-03-08 22:16:01
End at: 2019-03-08 22:16:31
Local clock offset: -3.524 ms
Remote clock offset: -1.844 ms

# Below is generated by plot.py at 2019-03-08 23:31:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.49 Mbit/s
95th percentile per-packet one-way delay: 38.450 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 96.49 Mbit/s
95th percentile per-packet one-way delay: 38.450 ms
Loss rate: 0.07%
```

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

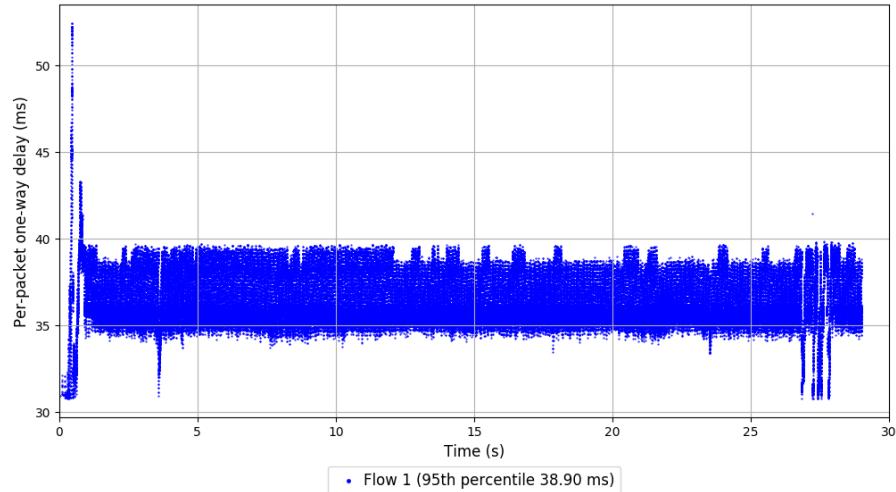
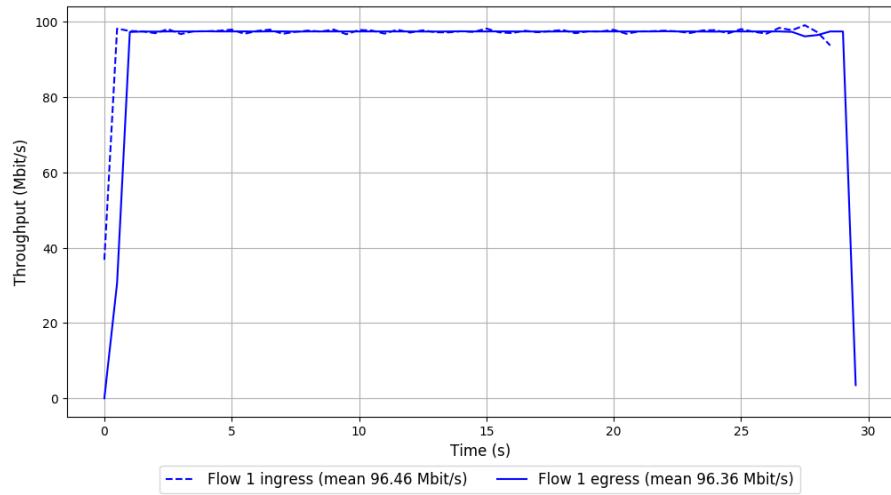


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-03-08 22:41:56
End at: 2019-03-08 22:42:26
Local clock offset: -4.817 ms
Remote clock offset: -1.225 ms

# Below is generated by plot.py at 2019-03-08 23:31:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.36 Mbit/s
95th percentile per-packet one-way delay: 38.900 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 96.36 Mbit/s
95th percentile per-packet one-way delay: 38.900 ms
Loss rate: 0.08%
```

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

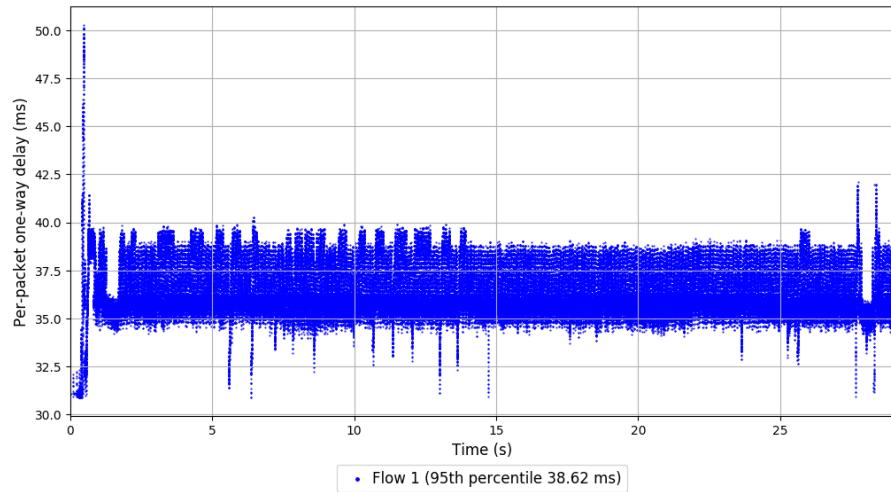
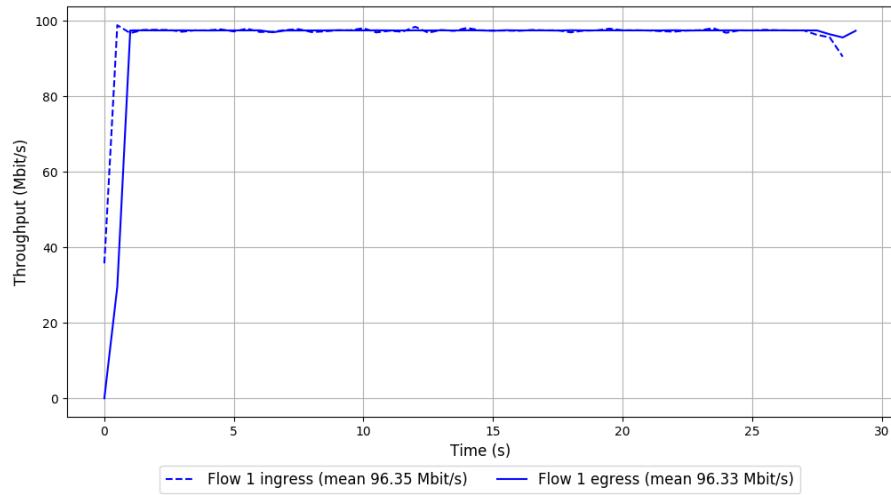


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-03-08 23:07:52
End at: 2019-03-08 23:08:22
Local clock offset: 1.354 ms
Remote clock offset: -1.115 ms

# Below is generated by plot.py at 2019-03-08 23:31:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.33 Mbit/s
95th percentile per-packet one-way delay: 38.618 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.33 Mbit/s
95th percentile per-packet one-way delay: 38.618 ms
Loss rate: 0.00%
```

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

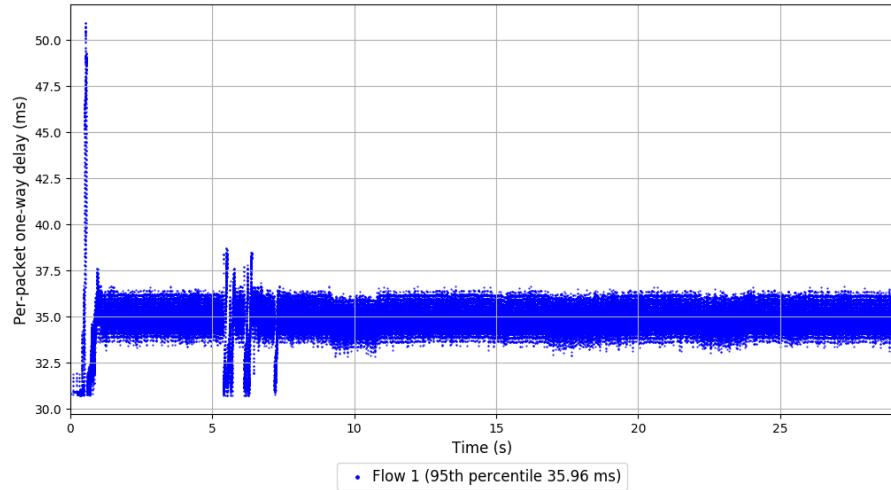
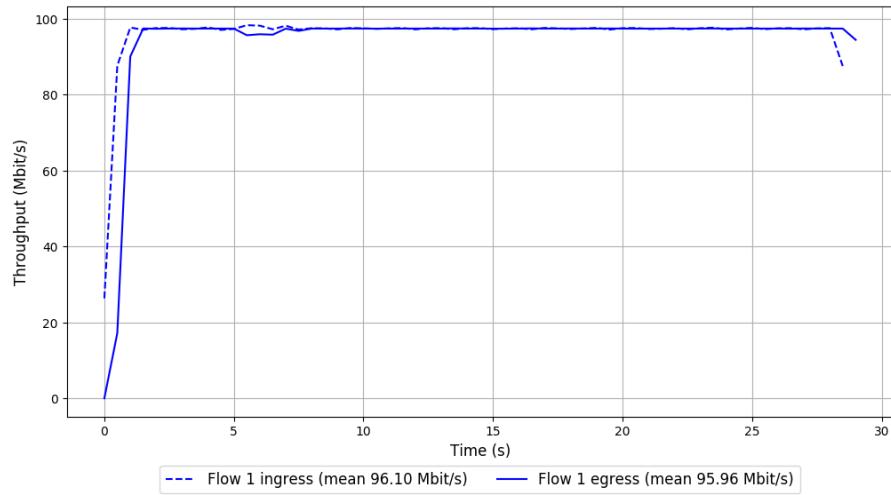


```
Run 1: Statistics of Indigo-MusesC5
```

```
Start at: 2019-03-08 21:24:24
End at: 2019-03-08 21:24:54
Local clock offset: -0.258 ms
Remote clock offset: -3.236 ms

# Below is generated by plot.py at 2019-03-08 23:31:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.96 Mbit/s
95th percentile per-packet one-way delay: 35.959 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 95.96 Mbit/s
95th percentile per-packet one-way delay: 35.959 ms
Loss rate: 0.13%
```

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

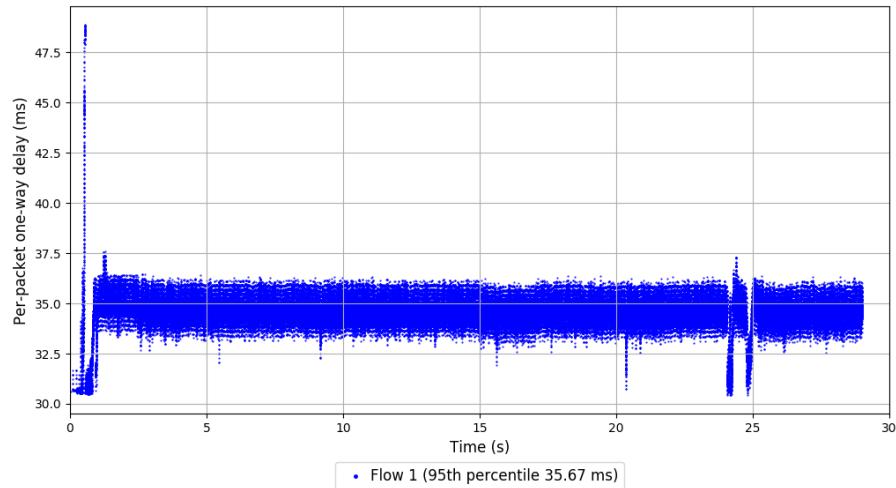
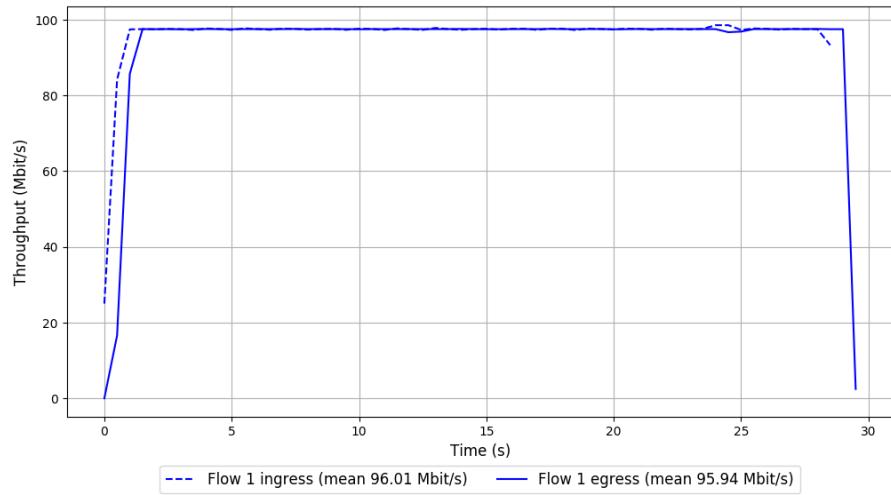


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-03-08 21:48:44
End at: 2019-03-08 21:49:14
Local clock offset: -1.395 ms
Remote clock offset: -2.736 ms

# Below is generated by plot.py at 2019-03-08 23:31:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.94 Mbit/s
95th percentile per-packet one-way delay: 35.671 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 95.94 Mbit/s
95th percentile per-packet one-way delay: 35.671 ms
Loss rate: 0.06%
```

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

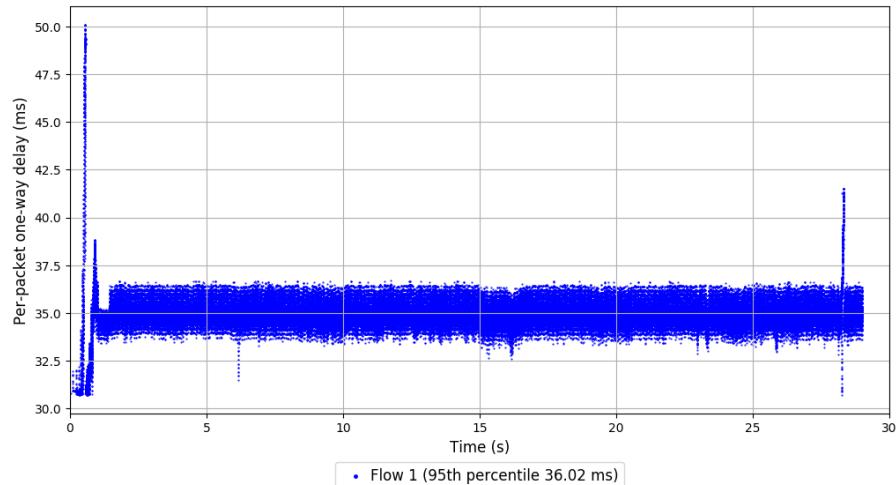
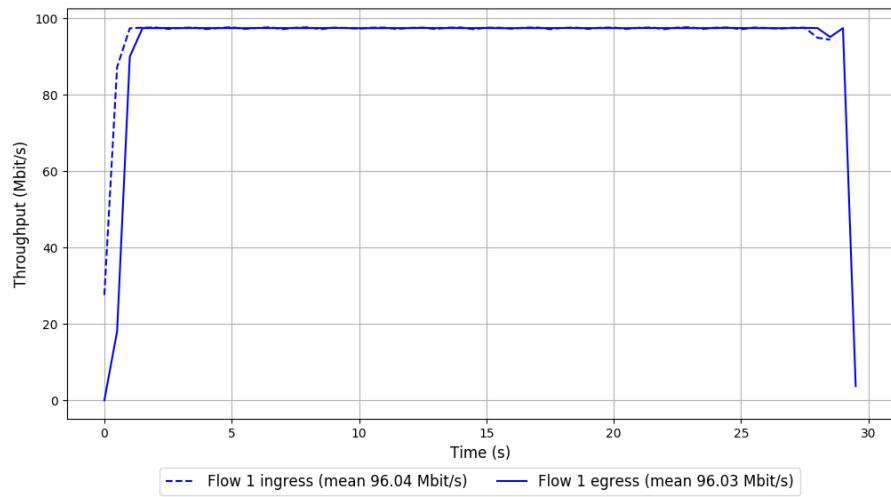


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-03-08 22:13:34
End at: 2019-03-08 22:14:04
Local clock offset: -3.399 ms
Remote clock offset: -1.863 ms

# Below is generated by plot.py at 2019-03-08 23:32:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.03 Mbit/s
95th percentile per-packet one-way delay: 36.020 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.03 Mbit/s
95th percentile per-packet one-way delay: 36.020 ms
Loss rate: 0.00%
```

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

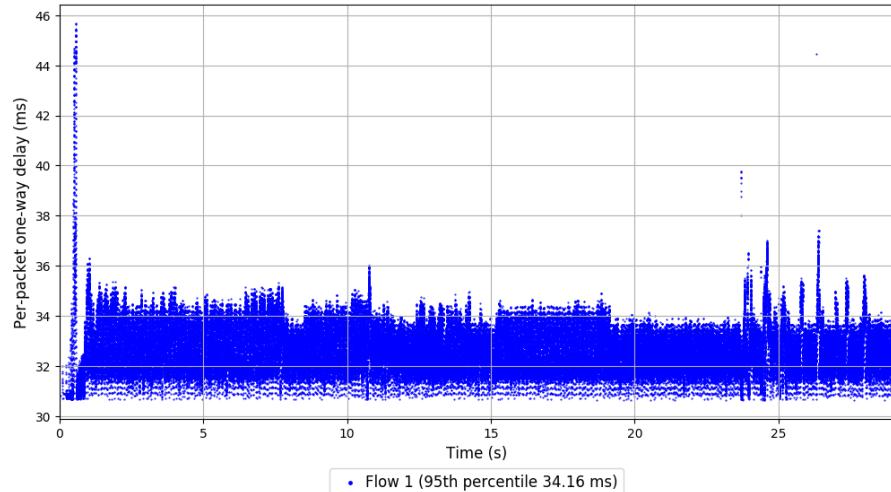
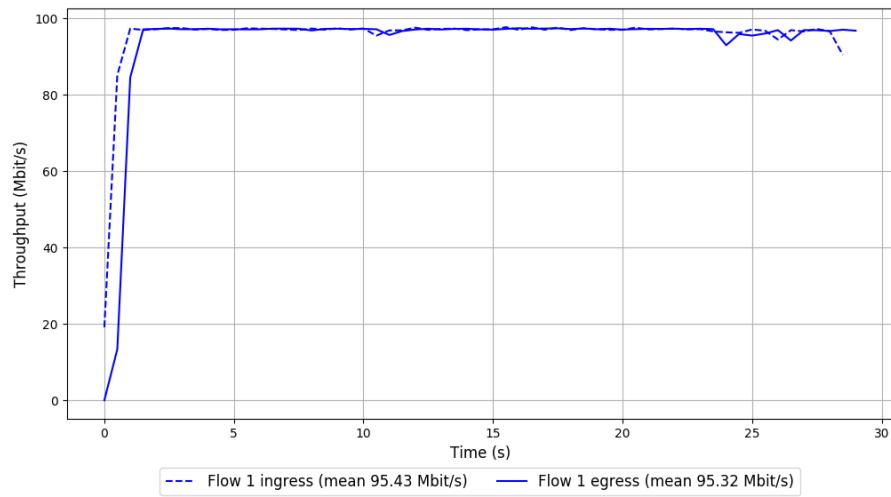


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-03-08 22:39:13
End at: 2019-03-08 22:39:43
Local clock offset: -4.683 ms
Remote clock offset: -1.304 ms

# Below is generated by plot.py at 2019-03-08 23:32:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.32 Mbit/s
95th percentile per-packet one-way delay: 34.161 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 95.32 Mbit/s
95th percentile per-packet one-way delay: 34.161 ms
Loss rate: 0.10%
```

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

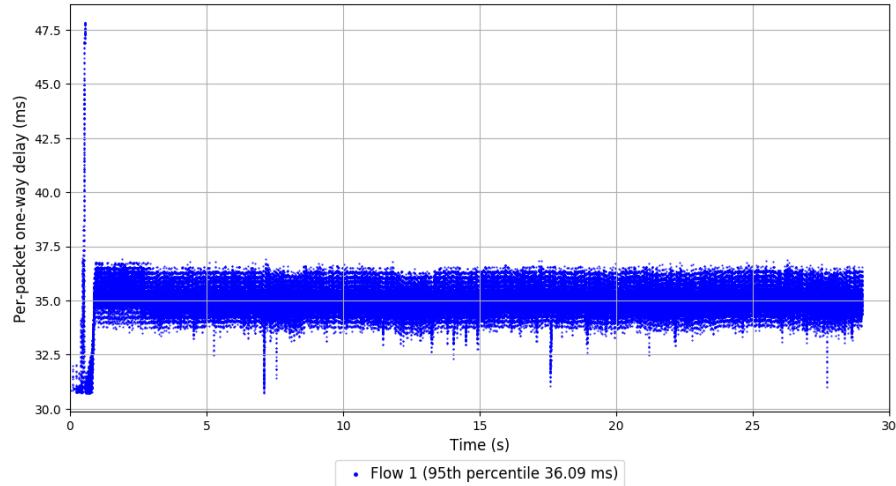
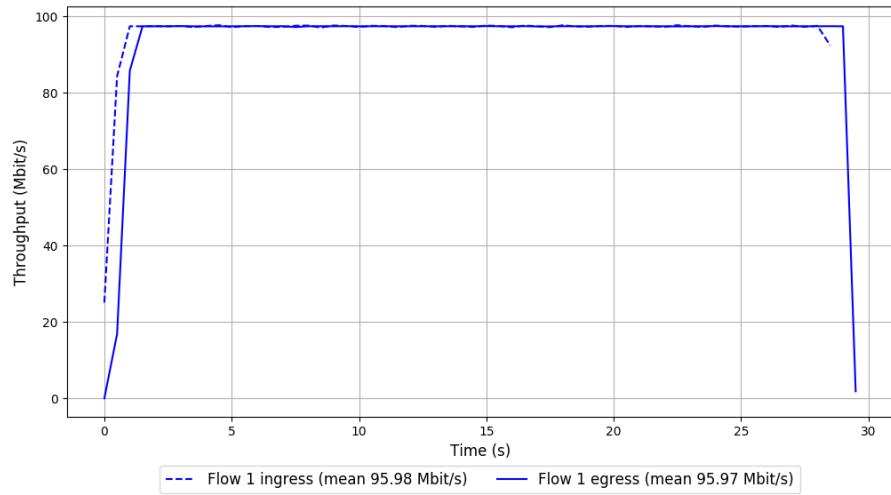


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-03-08 23:05:21
End at: 2019-03-08 23:05:51
Local clock offset: 1.123 ms
Remote clock offset: -1.15 ms

# Below is generated by plot.py at 2019-03-08 23:32:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.97 Mbit/s
95th percentile per-packet one-way delay: 36.086 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.97 Mbit/s
95th percentile per-packet one-way delay: 36.086 ms
Loss rate: 0.00%
```

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

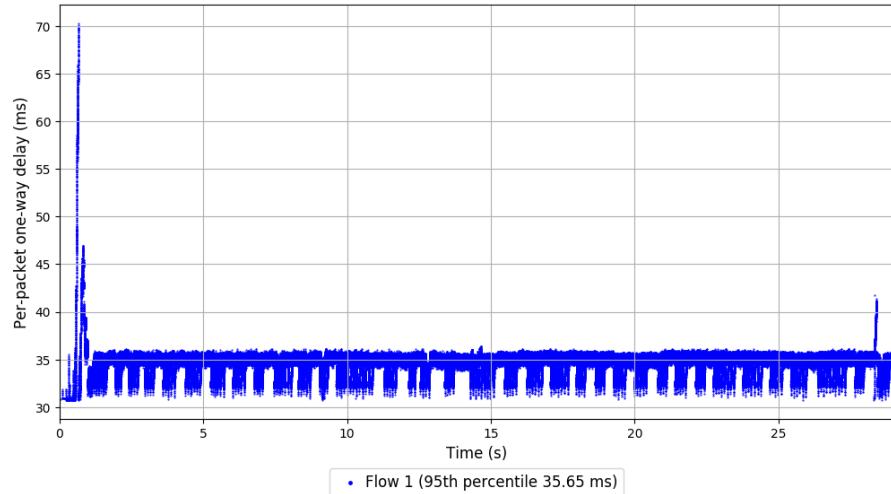
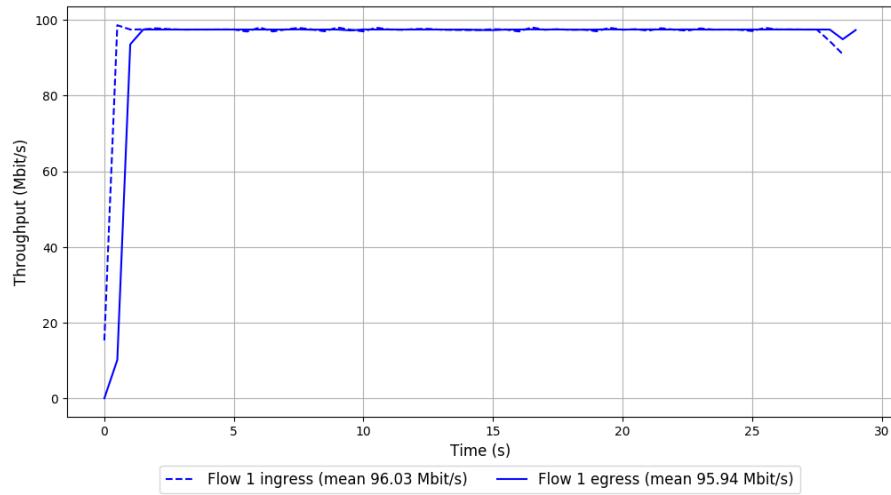


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-03-08 21:41:46
End at: 2019-03-08 21:42:16
Local clock offset: -0.555 ms
Remote clock offset: -2.816 ms

# Below is generated by plot.py at 2019-03-08 23:32:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.94 Mbit/s
95th percentile per-packet one-way delay: 35.650 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 95.94 Mbit/s
95th percentile per-packet one-way delay: 35.650 ms
Loss rate: 0.08%
```

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

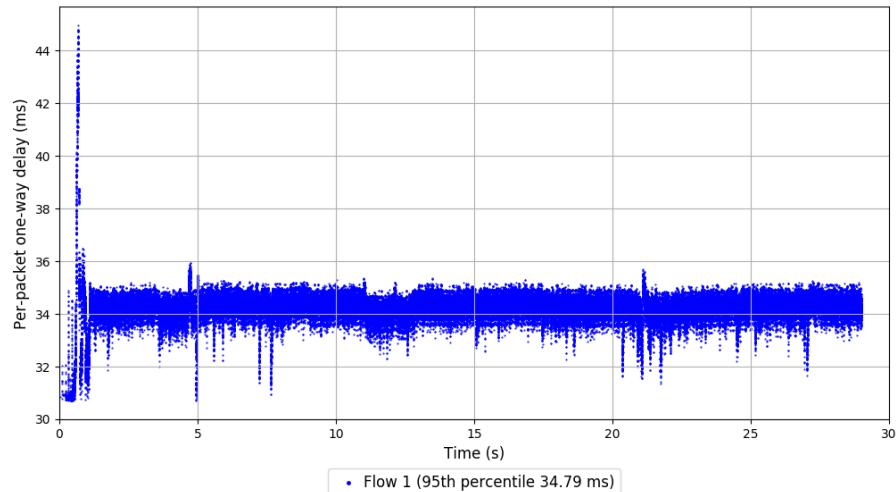
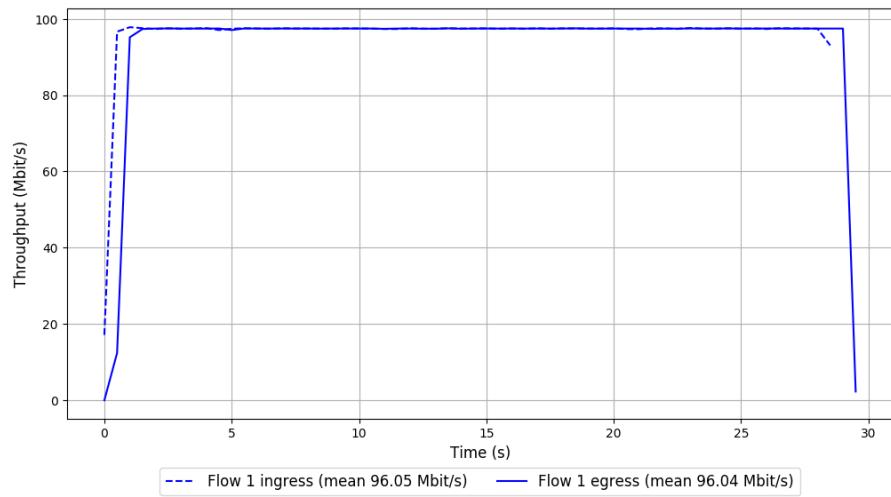


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-03-08 22:06:10
End at: 2019-03-08 22:06:40
Local clock offset: -3.01 ms
Remote clock offset: -2.044 ms

# Below is generated by plot.py at 2019-03-08 23:32:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.04 Mbit/s
95th percentile per-packet one-way delay: 34.786 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.04 Mbit/s
95th percentile per-packet one-way delay: 34.786 ms
Loss rate: 0.00%
```

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

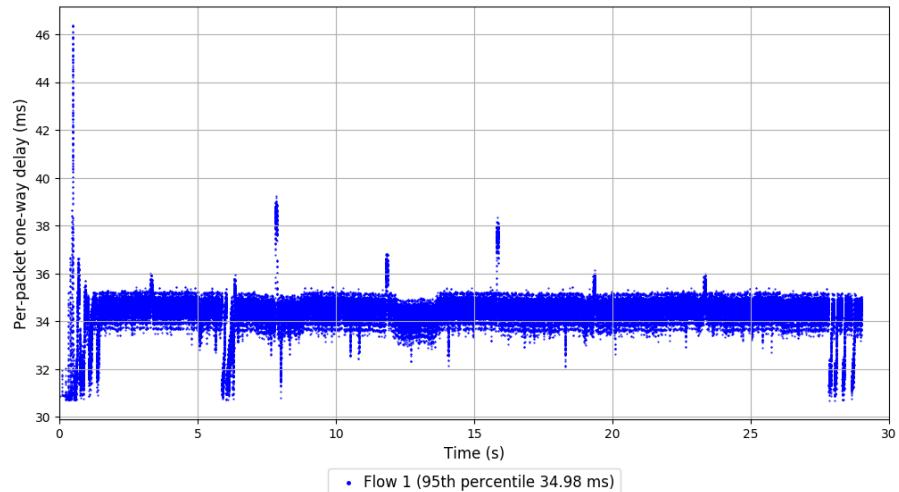
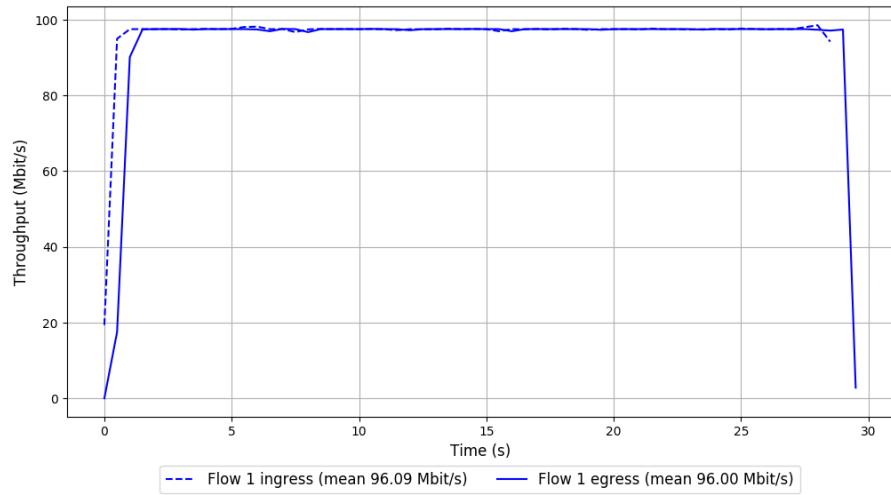


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-03-08 22:31:53
End at: 2019-03-08 22:32:23
Local clock offset: -4.324 ms
Remote clock offset: -1.411 ms

# Below is generated by plot.py at 2019-03-08 23:32:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.00 Mbit/s
95th percentile per-packet one-way delay: 34.982 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 96.00 Mbit/s
95th percentile per-packet one-way delay: 34.982 ms
Loss rate: 0.08%
```

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

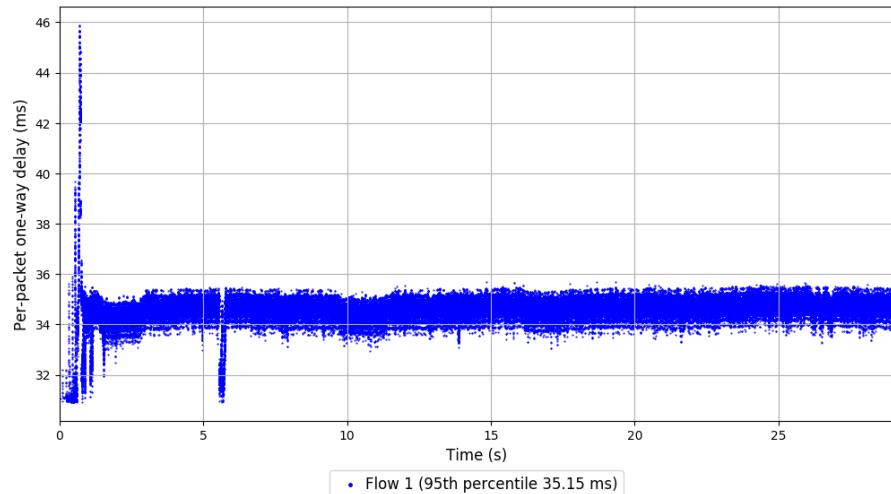
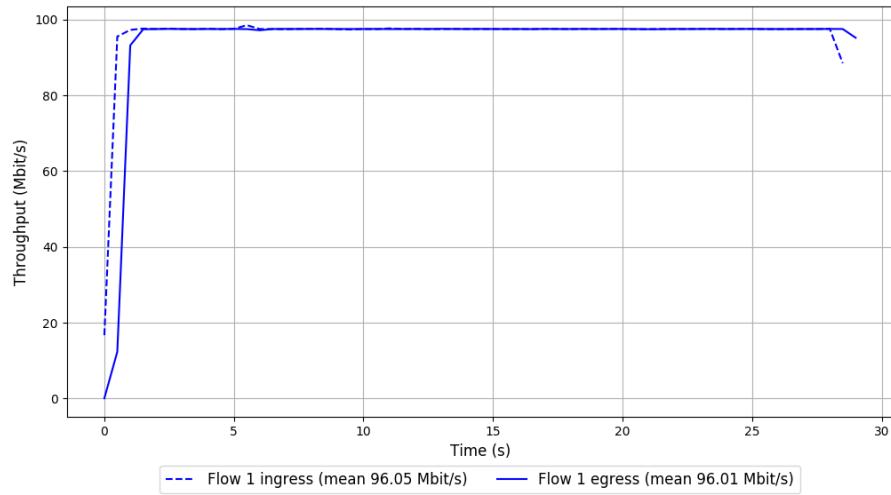


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-03-08 22:57:52
End at: 2019-03-08 22:58:22
Local clock offset: 0.074 ms
Remote clock offset: -1.105 ms

# Below is generated by plot.py at 2019-03-08 23:32:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.01 Mbit/s
95th percentile per-packet one-way delay: 35.146 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 96.01 Mbit/s
95th percentile per-packet one-way delay: 35.146 ms
Loss rate: 0.03%
```

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

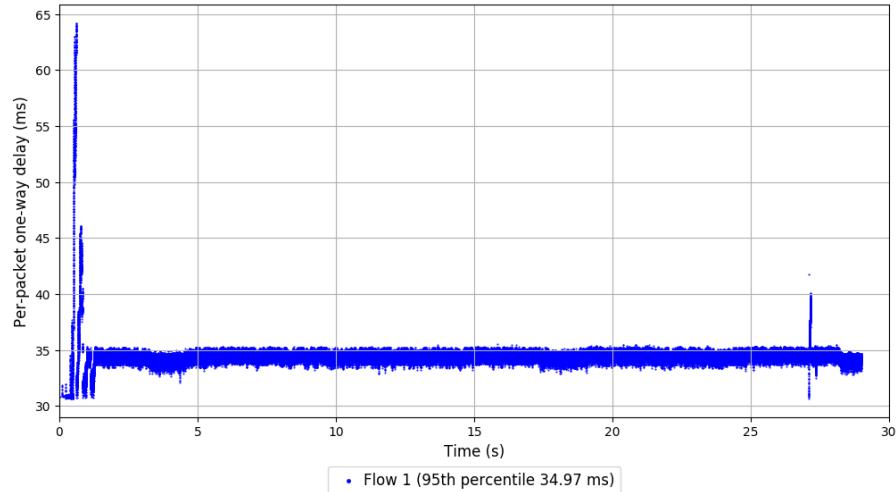
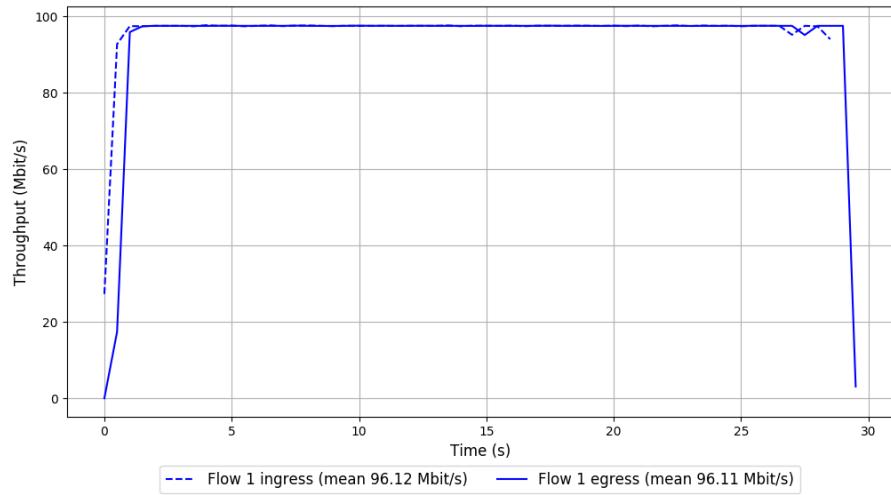


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-03-08 23:23:10
End at: 2019-03-08 23:23:40
Local clock offset: 1.262 ms
Remote clock offset: -1.108 ms

# Below is generated by plot.py at 2019-03-08 23:32:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.11 Mbit/s
95th percentile per-packet one-way delay: 34.971 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.11 Mbit/s
95th percentile per-packet one-way delay: 34.971 ms
Loss rate: 0.00%
```

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

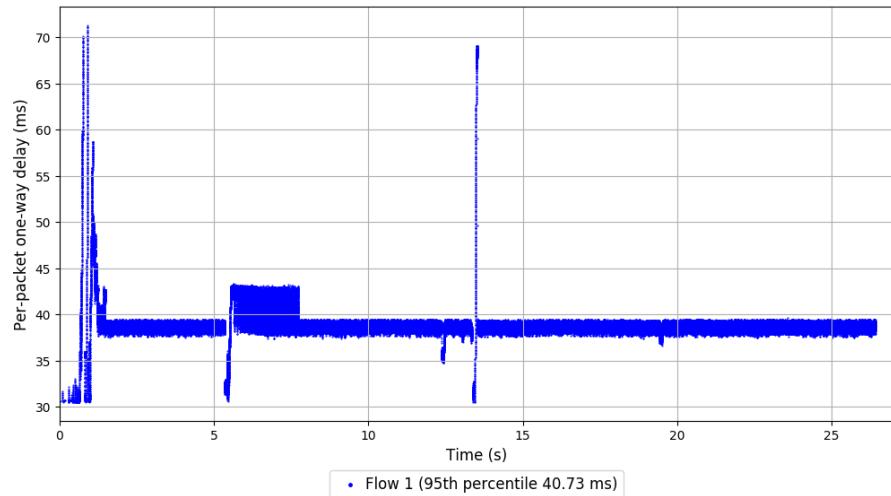
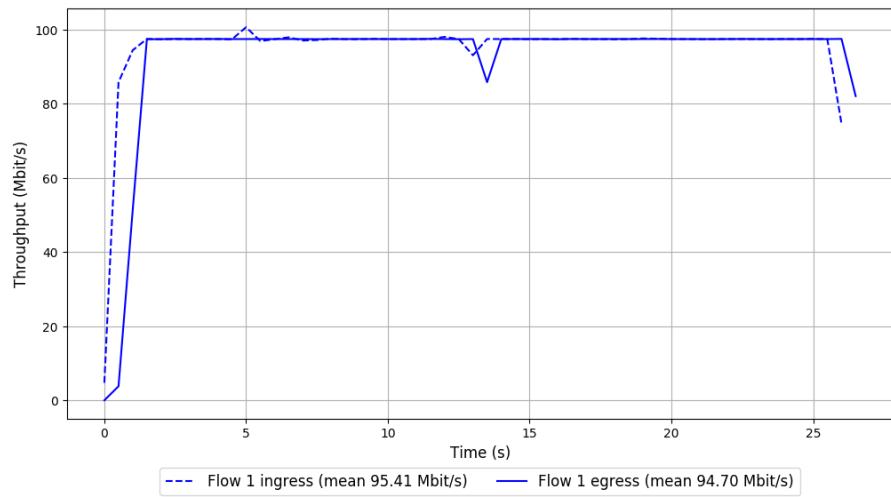


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-03-08 21:19:48
End at: 2019-03-08 21:20:18
Local clock offset: -0.212 ms
Remote clock offset: -3.562 ms

# Below is generated by plot.py at 2019-03-08 23:33:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.70 Mbit/s
95th percentile per-packet one-way delay: 40.725 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 94.70 Mbit/s
95th percentile per-packet one-way delay: 40.725 ms
Loss rate: 0.71%
```

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

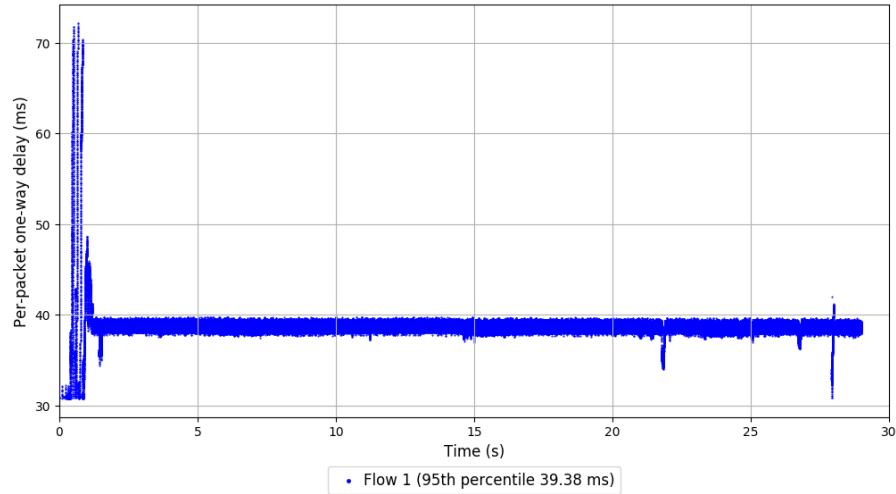
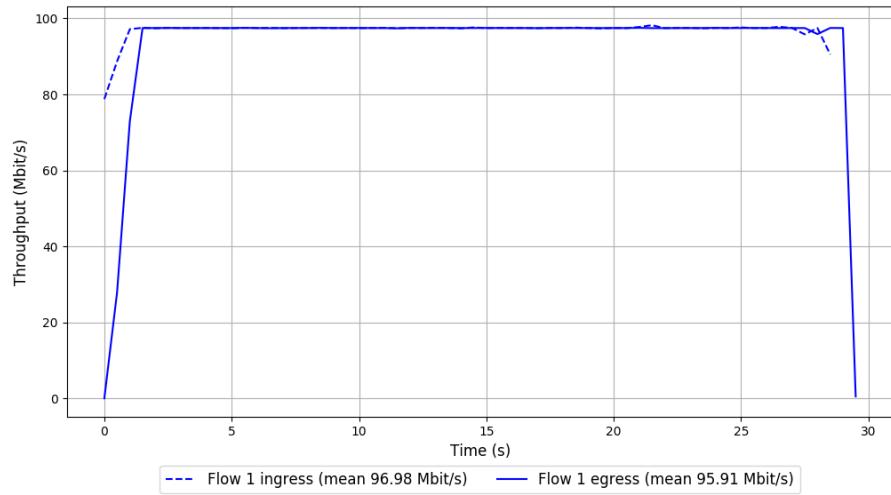


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-03-08 21:44:05
End at: 2019-03-08 21:44:35
Local clock offset: -0.59 ms
Remote clock offset: -2.688 ms

# Below is generated by plot.py at 2019-03-08 23:33:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.91 Mbit/s
95th percentile per-packet one-way delay: 39.381 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 95.91 Mbit/s
95th percentile per-packet one-way delay: 39.381 ms
Loss rate: 1.07%
```

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

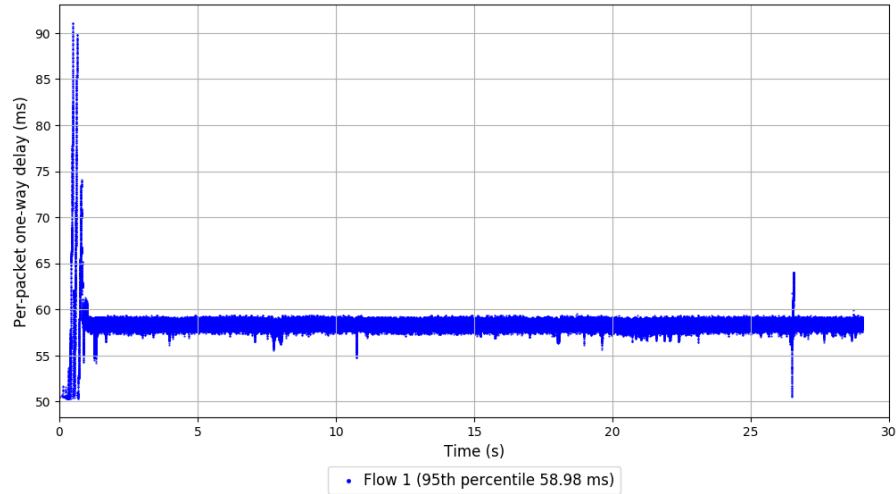
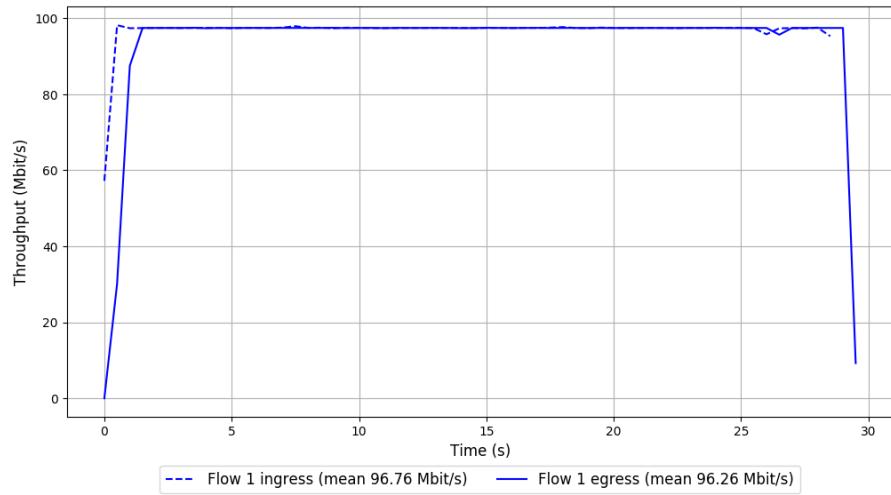


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-03-08 22:08:28
End at: 2019-03-08 22:08:58
Local clock offset: -3.14 ms
Remote clock offset: 17.606 ms

# Below is generated by plot.py at 2019-03-08 23:33:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.26 Mbit/s
95th percentile per-packet one-way delay: 58.979 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 96.26 Mbit/s
95th percentile per-packet one-way delay: 58.979 ms
Loss rate: 0.48%
```

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

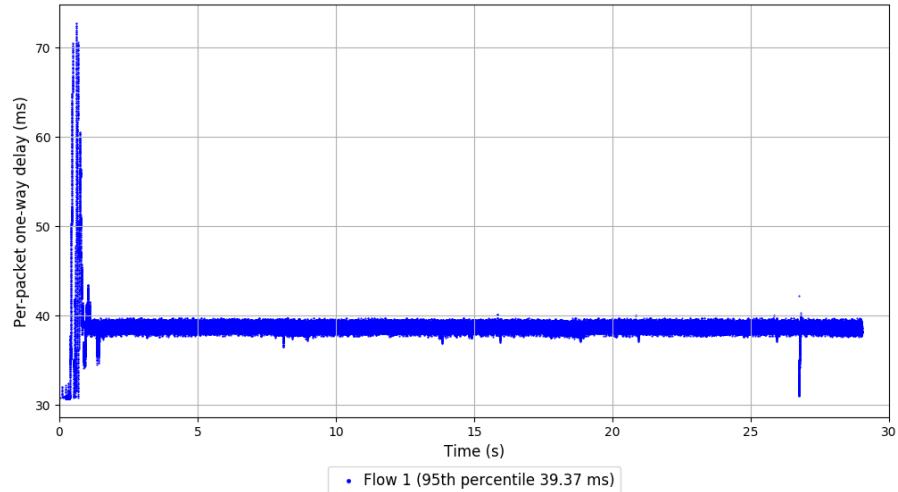
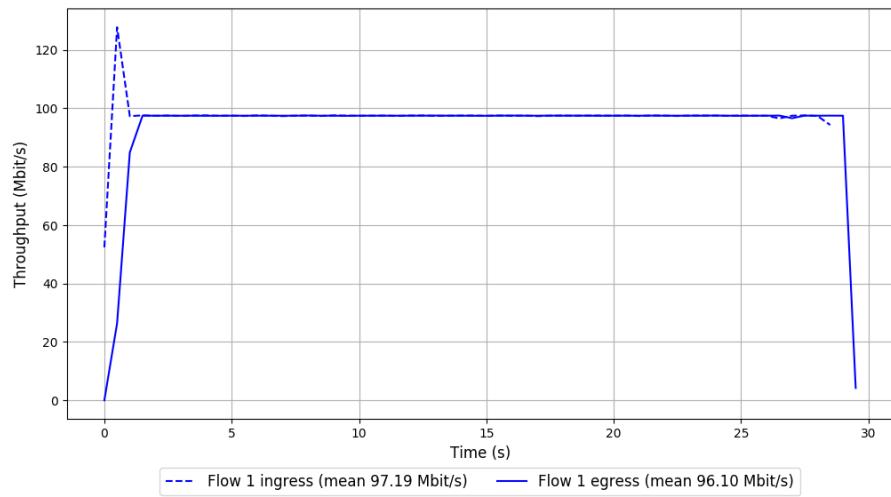


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-03-08 22:34:19
End at: 2019-03-08 22:34:49
Local clock offset: -4.424 ms
Remote clock offset: -1.425 ms

# Below is generated by plot.py at 2019-03-08 23:33:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.10 Mbit/s
95th percentile per-packet one-way delay: 39.369 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 96.10 Mbit/s
95th percentile per-packet one-way delay: 39.369 ms
Loss rate: 1.09%
```

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

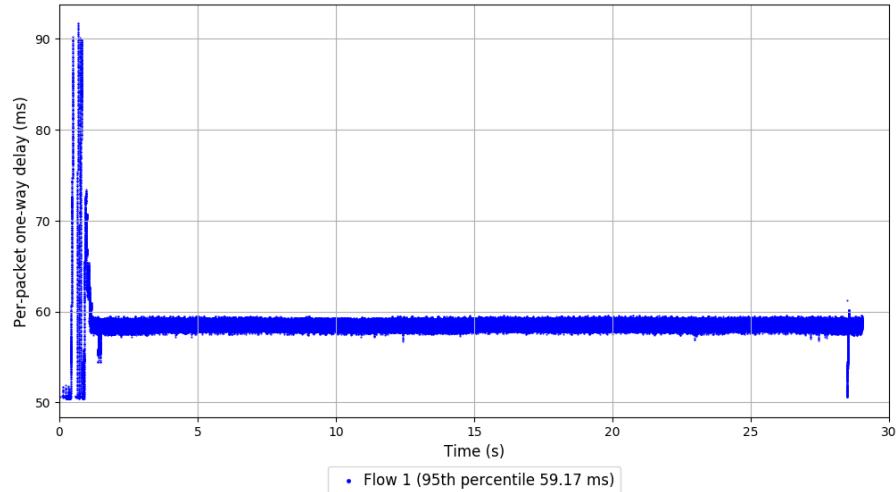
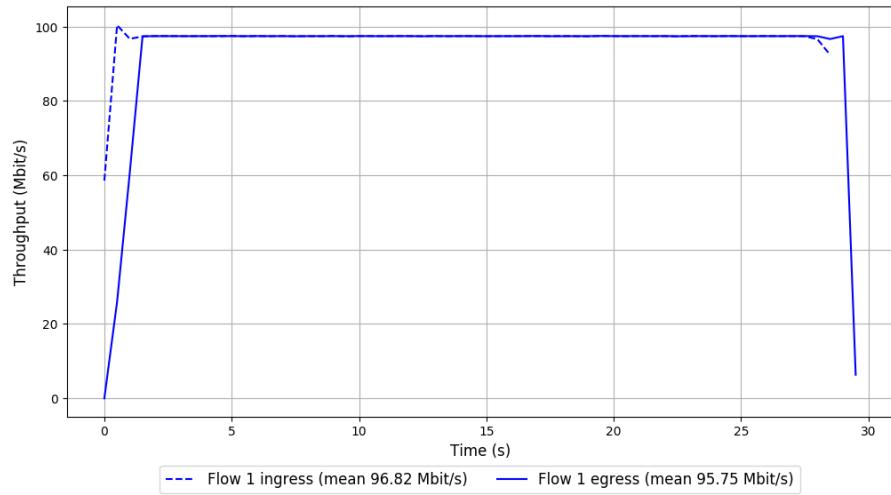


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-03-08 23:00:21
End at: 2019-03-08 23:00:51
Local clock offset: 0.505 ms
Remote clock offset: 18.463 ms

# Below is generated by plot.py at 2019-03-08 23:33:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.75 Mbit/s
95th percentile per-packet one-way delay: 59.169 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 95.75 Mbit/s
95th percentile per-packet one-way delay: 59.169 ms
Loss rate: 1.07%
```

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

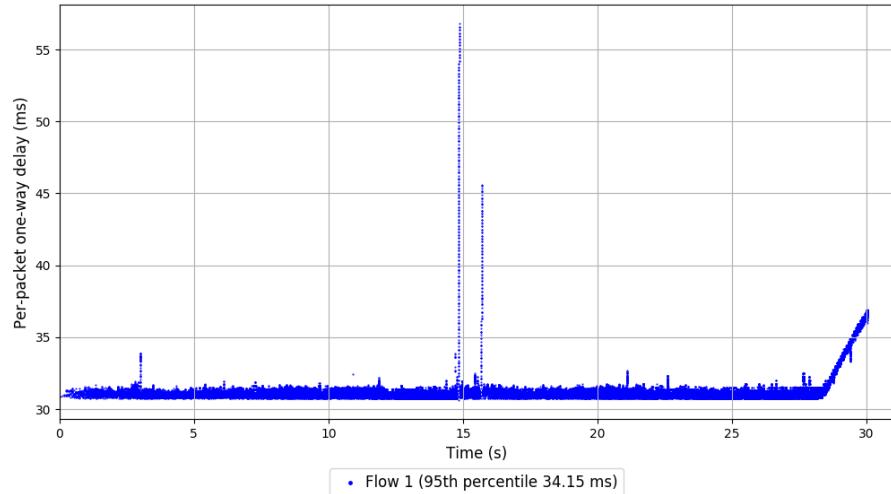
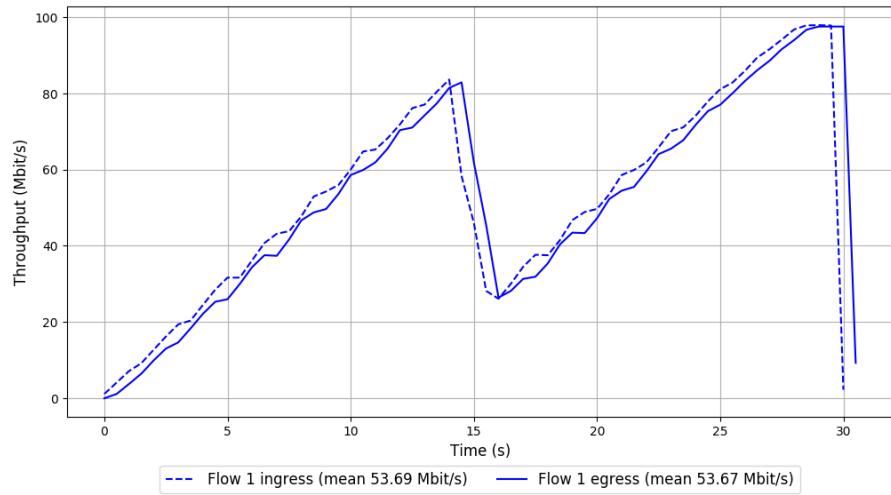


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-03-08 21:39:26
End at: 2019-03-08 21:39:56
Local clock offset: -0.527 ms
Remote clock offset: -2.901 ms

# Below is generated by plot.py at 2019-03-08 23:33:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.67 Mbit/s
95th percentile per-packet one-way delay: 34.145 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 53.67 Mbit/s
95th percentile per-packet one-way delay: 34.145 ms
Loss rate: 0.02%
```

## Run 1: Report of LEDBAT — Data Link

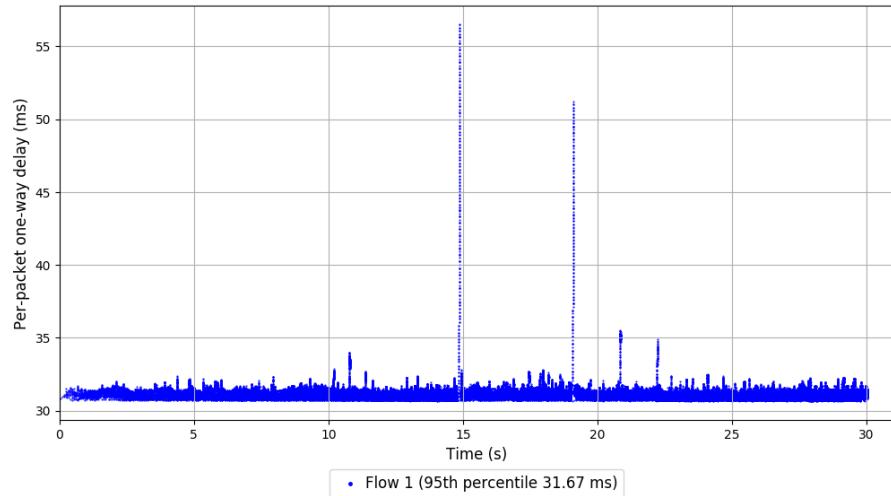
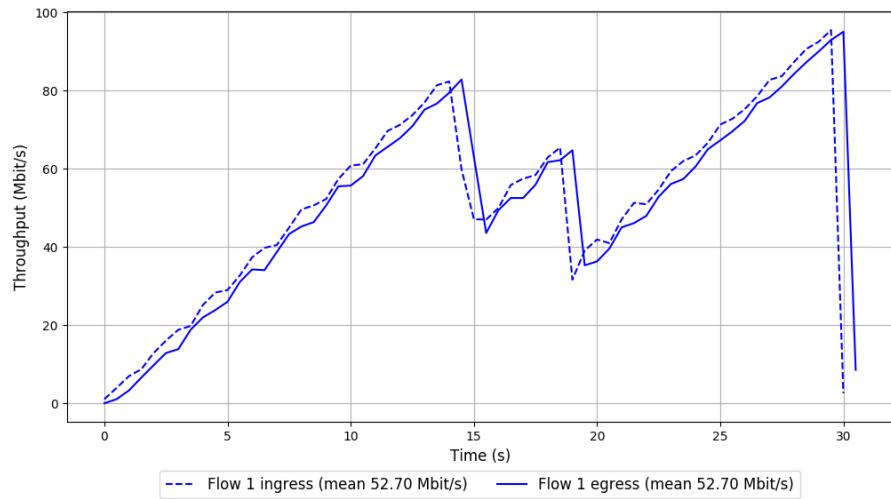


Run 2: Statistics of LEDBAT

```
Start at: 2019-03-08 22:03:51
End at: 2019-03-08 22:04:21
Local clock offset: -2.862 ms
Remote clock offset: -2.106 ms

# Below is generated by plot.py at 2019-03-08 23:33:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.70 Mbit/s
95th percentile per-packet one-way delay: 31.666 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 52.70 Mbit/s
95th percentile per-packet one-way delay: 31.666 ms
Loss rate: 0.01%
```

## Run 2: Report of LEDBAT — Data Link

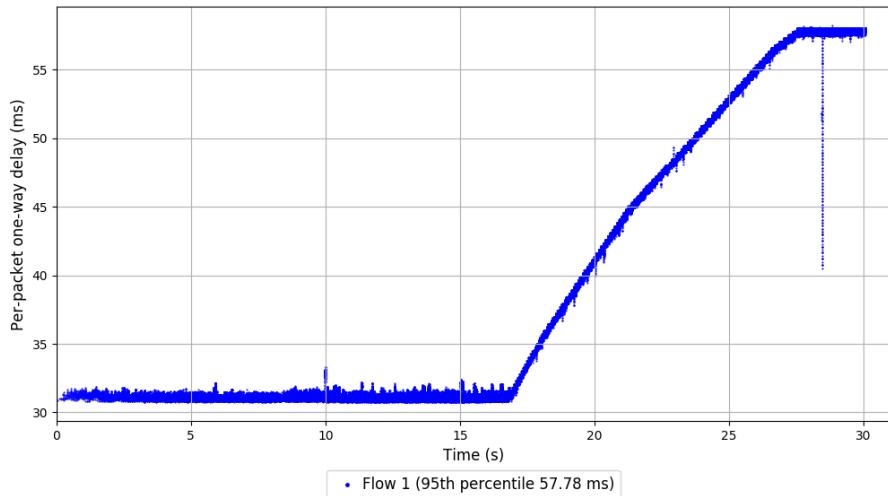
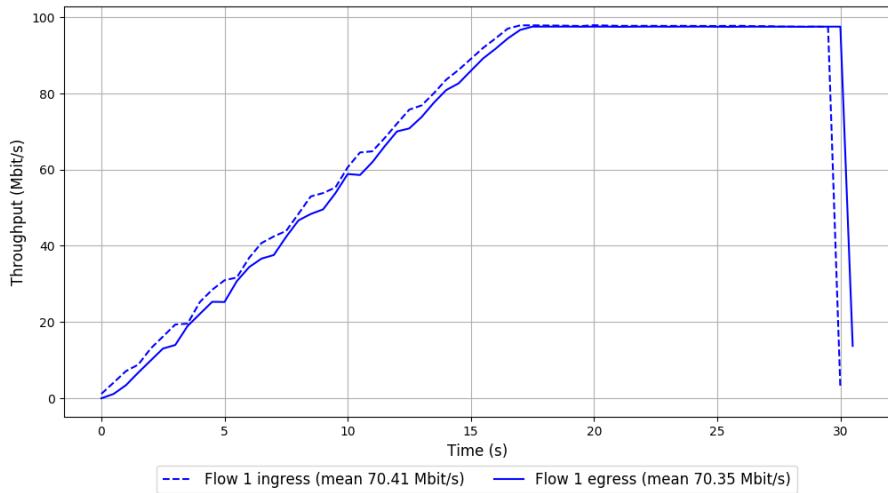


Run 3: Statistics of LEDBAT

```
Start at: 2019-03-08 22:29:16
End at: 2019-03-08 22:29:46
Local clock offset: -4.189 ms
Remote clock offset: -1.484 ms

# Below is generated by plot.py at 2019-03-08 23:33:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.35 Mbit/s
95th percentile per-packet one-way delay: 57.776 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 70.35 Mbit/s
95th percentile per-packet one-way delay: 57.776 ms
Loss rate: 0.00%
```

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

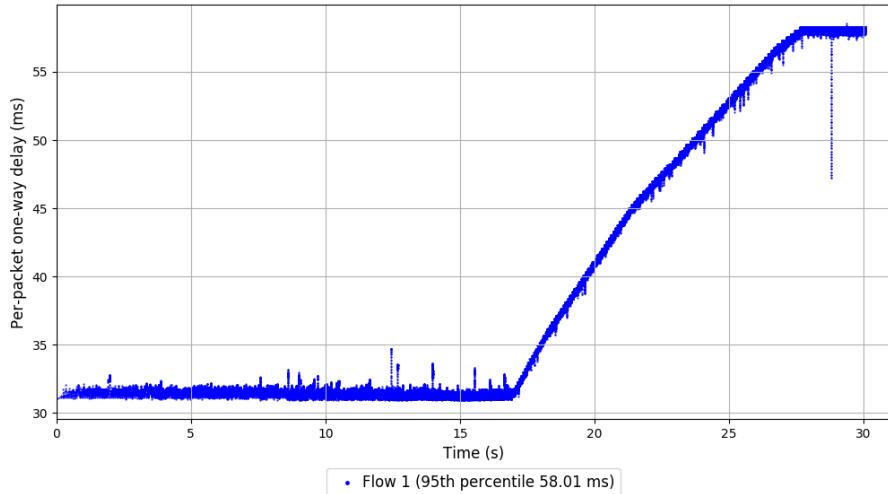
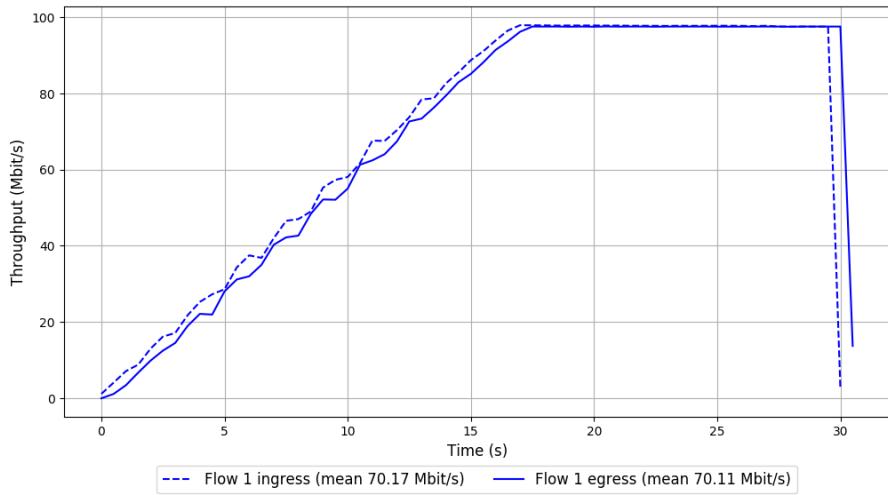


Run 4: Statistics of LEDBAT

```
Start at: 2019-03-08 22:55:20
End at: 2019-03-08 22:55:50
Local clock offset: -0.463 ms
Remote clock offset: -1.115 ms

# Below is generated by plot.py at 2019-03-08 23:34:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.11 Mbit/s
95th percentile per-packet one-way delay: 58.013 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 70.11 Mbit/s
95th percentile per-packet one-way delay: 58.013 ms
Loss rate: 0.00%
```

## Run 4: Report of LEDBAT — Data Link

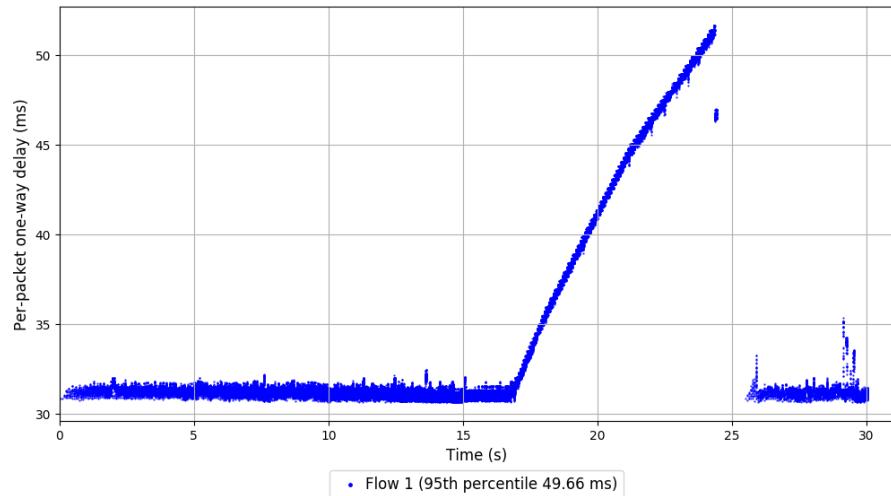
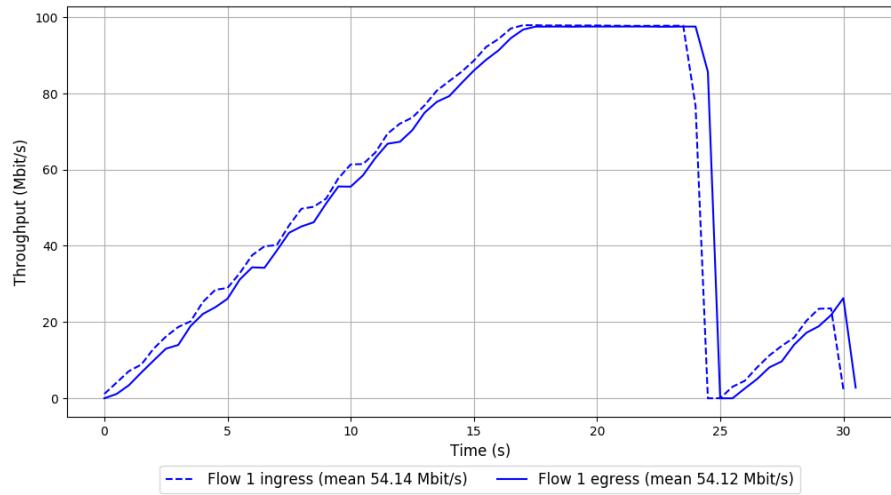


Run 5: Statistics of LEDBAT

```
Start at: 2019-03-08 23:20:42
End at: 2019-03-08 23:21:12
Local clock offset: 1.349 ms
Remote clock offset: -1.17 ms

# Below is generated by plot.py at 2019-03-08 23:34:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.12 Mbit/s
95th percentile per-packet one-way delay: 49.664 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 54.12 Mbit/s
95th percentile per-packet one-way delay: 49.664 ms
Loss rate: 0.03%
```

Run 5: Report of LEDBAT — Data Link

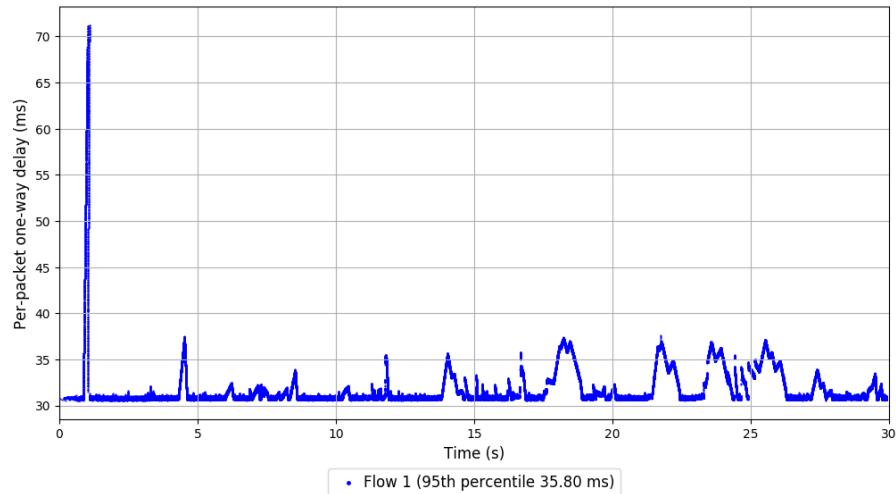
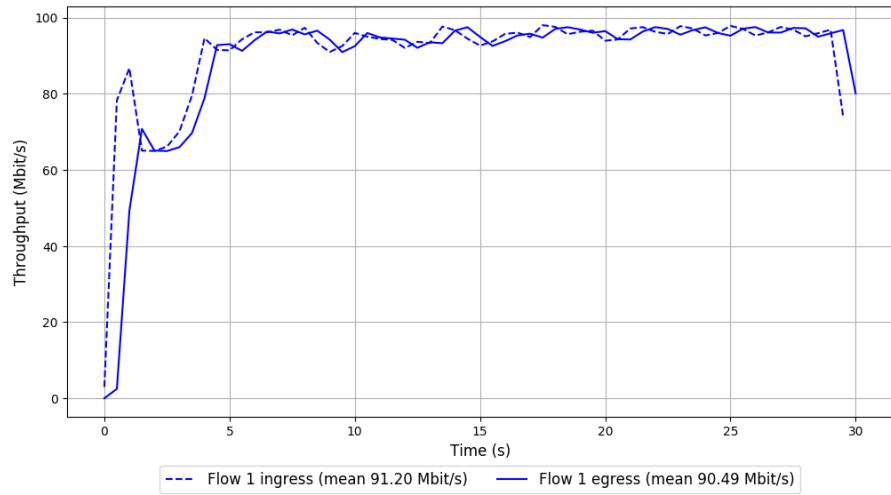


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-03-08 21:23:15
End at: 2019-03-08 21:23:45
Local clock offset: -0.227 ms
Remote clock offset: -3.299 ms

# Below is generated by plot.py at 2019-03-08 23:34:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.49 Mbit/s
95th percentile per-packet one-way delay: 35.801 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 90.49 Mbit/s
95th percentile per-packet one-way delay: 35.801 ms
Loss rate: 0.78%
```

Run 1: Report of PCC-Allegro — Data Link

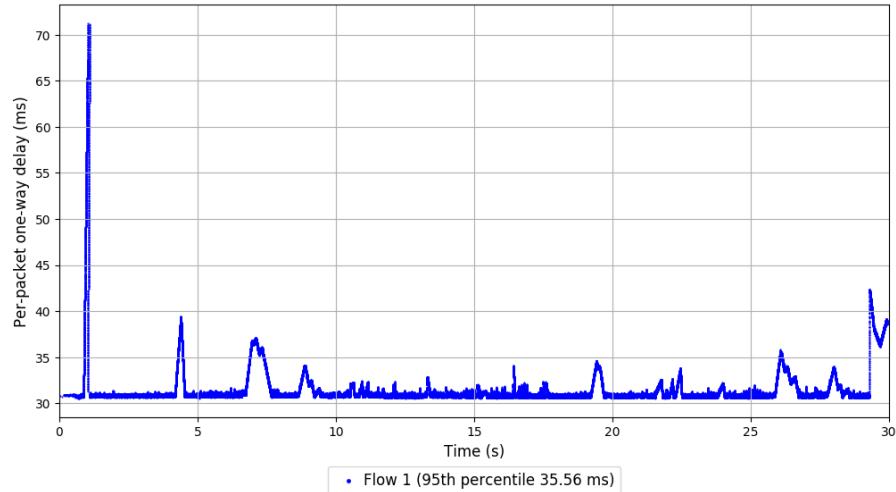
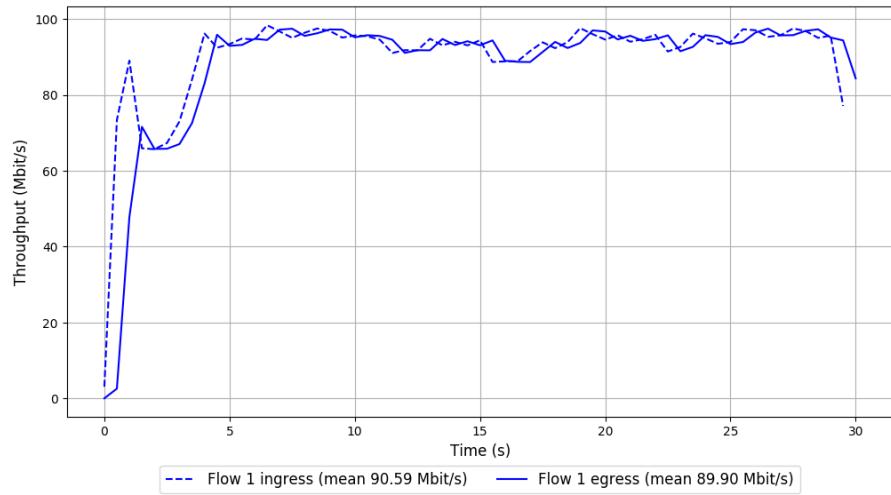


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-03-08 21:47:34
End at: 2019-03-08 21:48:04
Local clock offset: -1.251 ms
Remote clock offset: -2.58 ms

# Below is generated by plot.py at 2019-03-08 23:34:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.90 Mbit/s
95th percentile per-packet one-way delay: 35.562 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 89.90 Mbit/s
95th percentile per-packet one-way delay: 35.562 ms
Loss rate: 0.73%
```

Run 2: Report of PCC-Allegro — Data Link

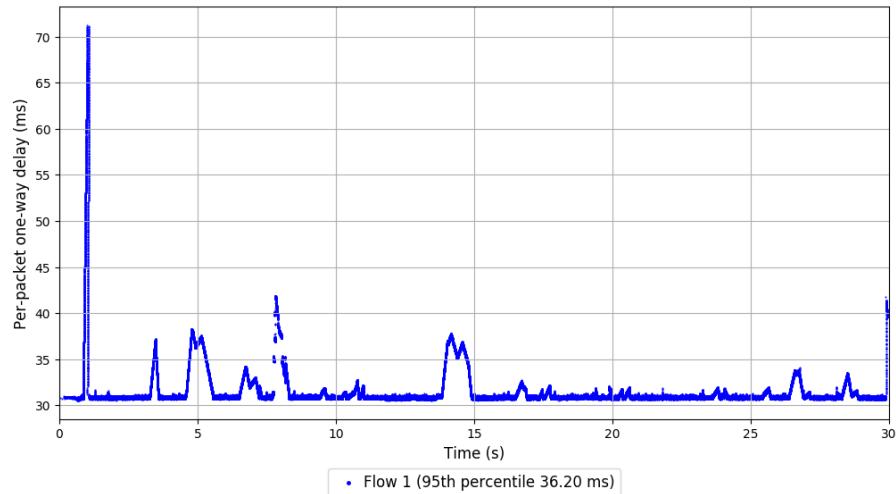
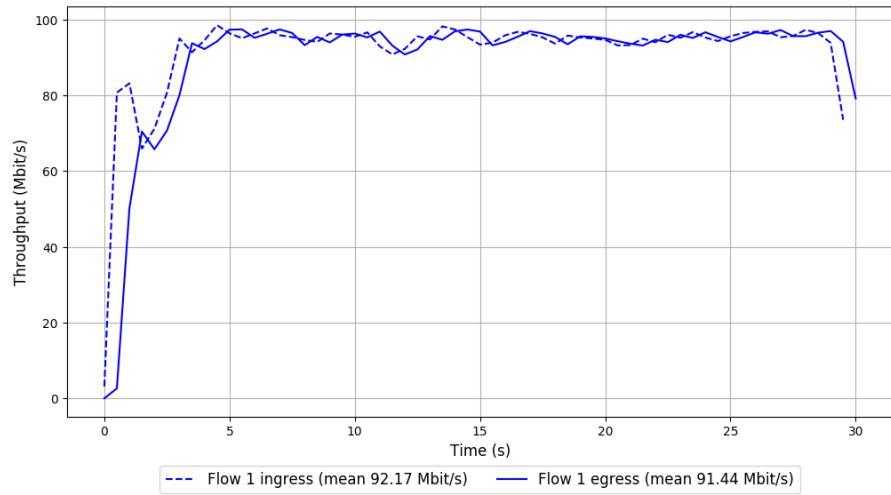


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-03-08 22:12:16
End at: 2019-03-08 22:12:46
Local clock offset: -3.32 ms
Remote clock offset: -1.956 ms

# Below is generated by plot.py at 2019-03-08 23:34:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.44 Mbit/s
95th percentile per-packet one-way delay: 36.197 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 91.44 Mbit/s
95th percentile per-packet one-way delay: 36.197 ms
Loss rate: 0.76%
```

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

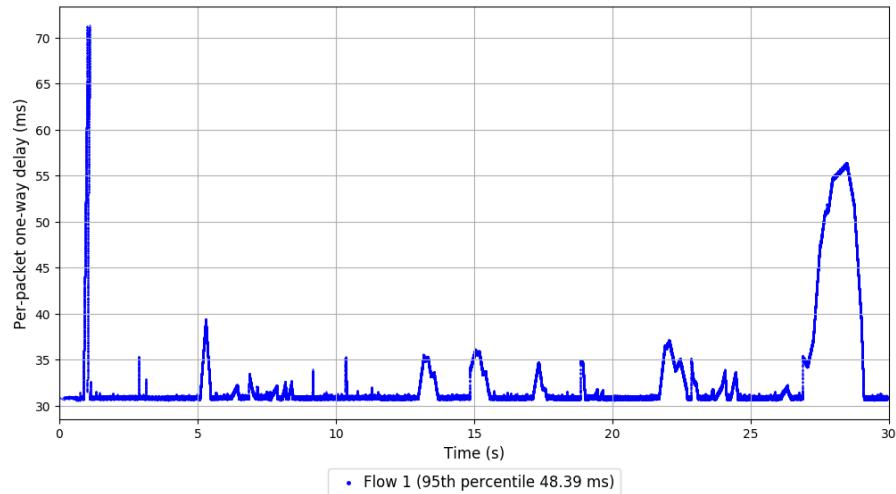
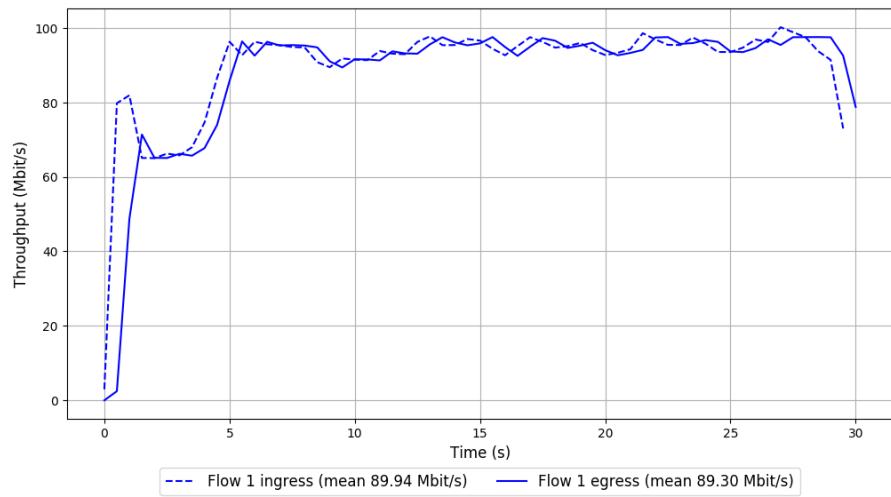


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-03-08 22:37:55
End at: 2019-03-08 22:38:25
Local clock offset: -4.623 ms
Remote clock offset: -1.306 ms

# Below is generated by plot.py at 2019-03-08 23:34:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.30 Mbit/s
95th percentile per-packet one-way delay: 48.387 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 89.30 Mbit/s
95th percentile per-packet one-way delay: 48.387 ms
Loss rate: 0.71%
```

Run 4: Report of PCC-Allegro — Data Link

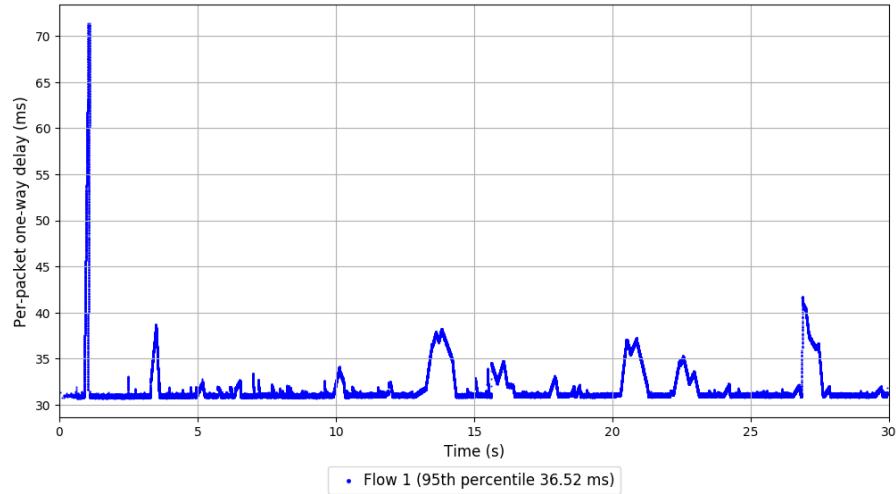
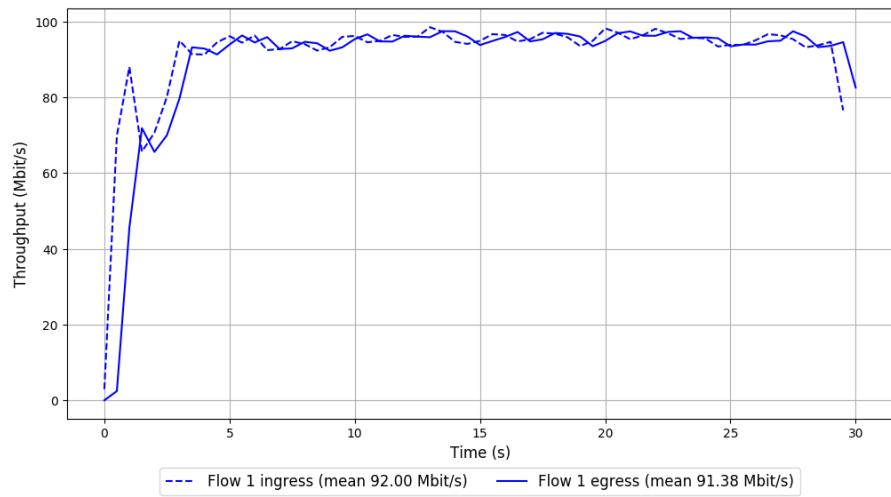


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-03-08 23:04:09
End at: 2019-03-08 23:04:39
Local clock offset: 0.957 ms
Remote clock offset: -1.159 ms

# Below is generated by plot.py at 2019-03-08 23:34:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.38 Mbit/s
95th percentile per-packet one-way delay: 36.516 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 91.38 Mbit/s
95th percentile per-packet one-way delay: 36.516 ms
Loss rate: 0.67%
```

Run 5: Report of PCC-Allegro — Data Link

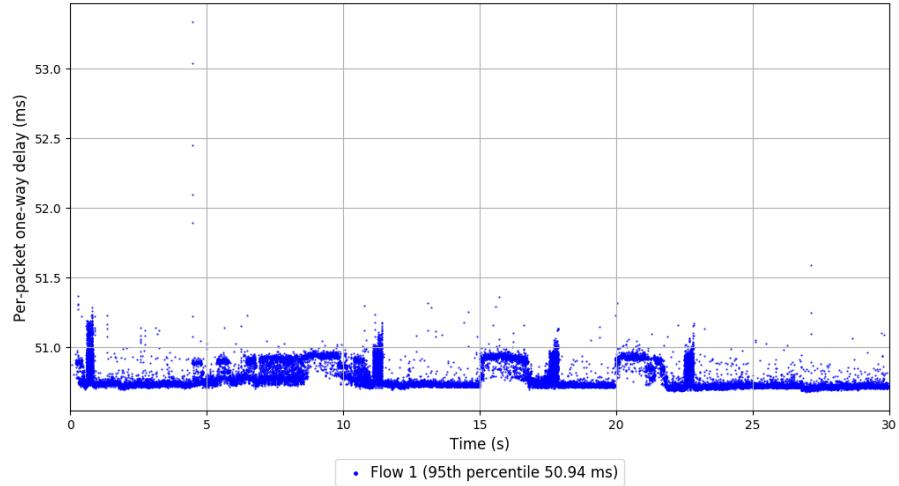
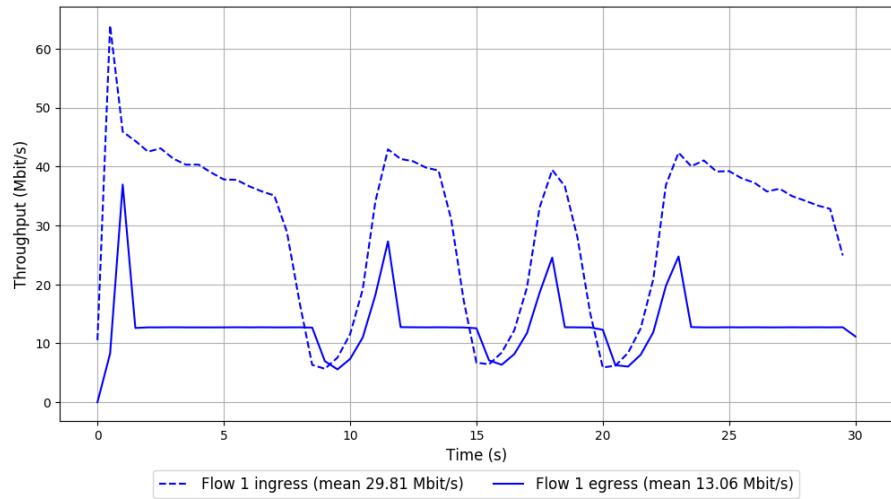


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-03-08 21:38:18
End at: 2019-03-08 21:38:48
Local clock offset: -0.51 ms
Remote clock offset: 17.109 ms

# Below is generated by plot.py at 2019-03-08 23:34:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.06 Mbit/s
95th percentile per-packet one-way delay: 50.941 ms
Loss rate: 56.19%
-- Flow 1:
Average throughput: 13.06 Mbit/s
95th percentile per-packet one-way delay: 50.941 ms
Loss rate: 56.19%
```

Run 1: Report of PCC-Expr — Data Link

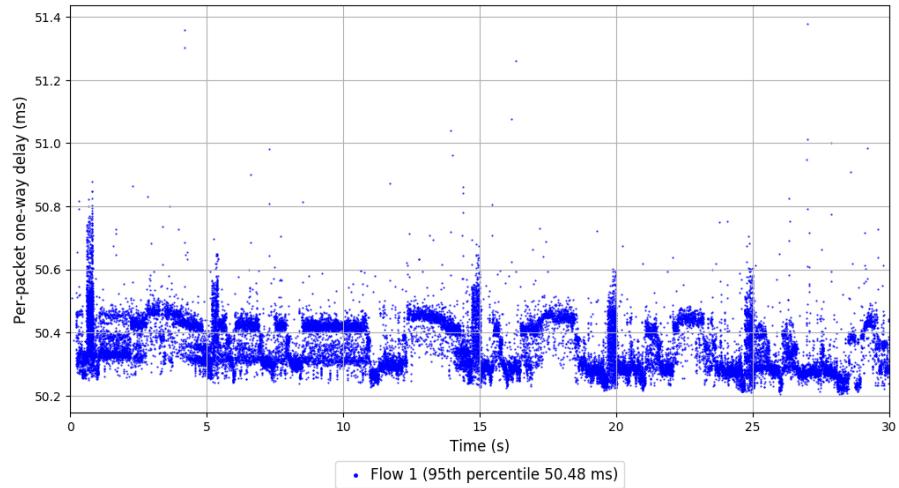
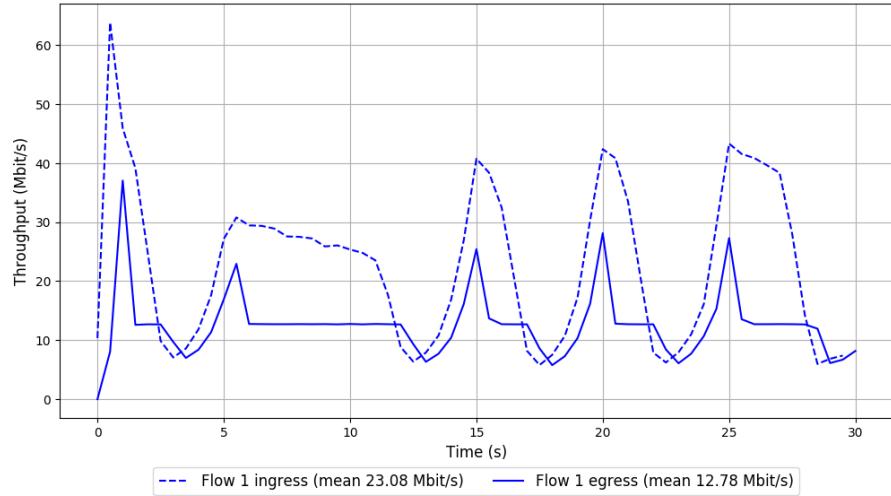


Run 2: Statistics of PCC-Expr

```
Start at: 2019-03-08 22:02:44
End at: 2019-03-08 22:03:14
Local clock offset: -2.817 ms
Remote clock offset: 17.44 ms

# Below is generated by plot.py at 2019-03-08 23:34:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.78 Mbit/s
95th percentile per-packet one-way delay: 50.475 ms
Loss rate: 44.65%
-- Flow 1:
Average throughput: 12.78 Mbit/s
95th percentile per-packet one-way delay: 50.475 ms
Loss rate: 44.65%
```

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

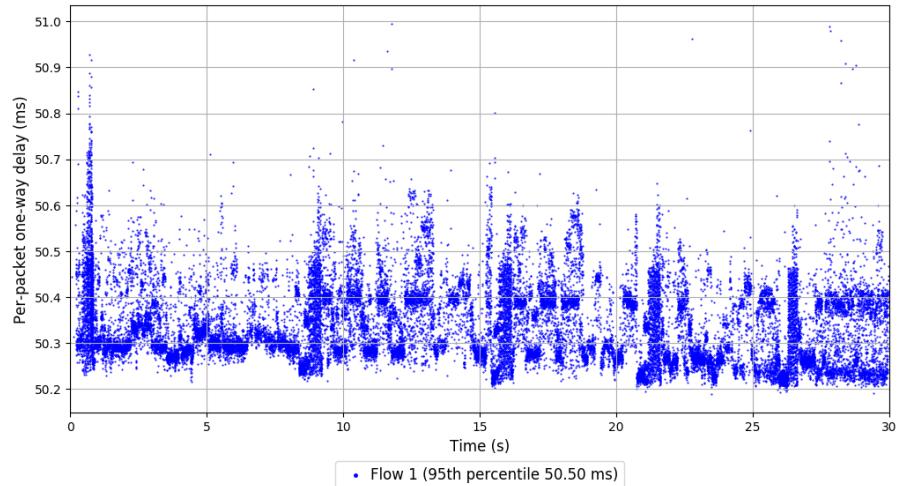
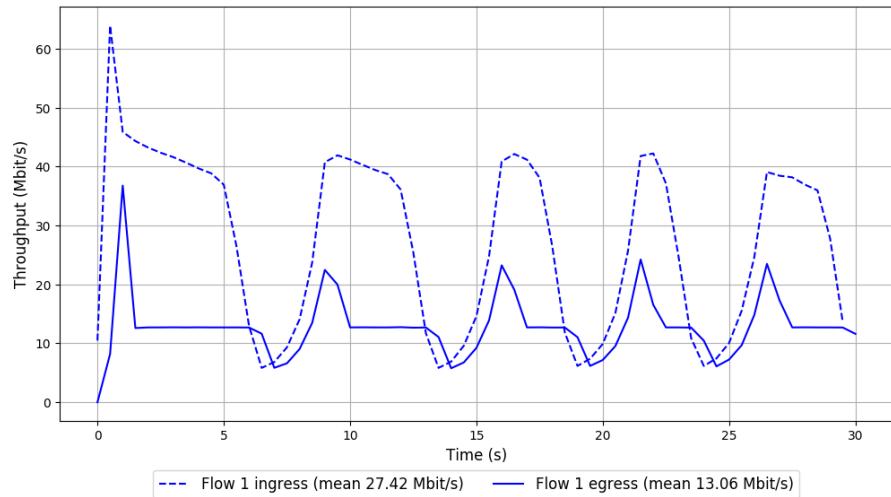


Run 3: Statistics of PCC-Expr

```
Start at: 2019-03-08 22:28:08
End at: 2019-03-08 22:28:38
Local clock offset: -4.127 ms
Remote clock offset: 18.013 ms

# Below is generated by plot.py at 2019-03-08 23:34:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.06 Mbit/s
95th percentile per-packet one-way delay: 50.497 ms
Loss rate: 52.39%
-- Flow 1:
Average throughput: 13.06 Mbit/s
95th percentile per-packet one-way delay: 50.497 ms
Loss rate: 52.39%
```

Run 3: Report of PCC-Expr — Data Link

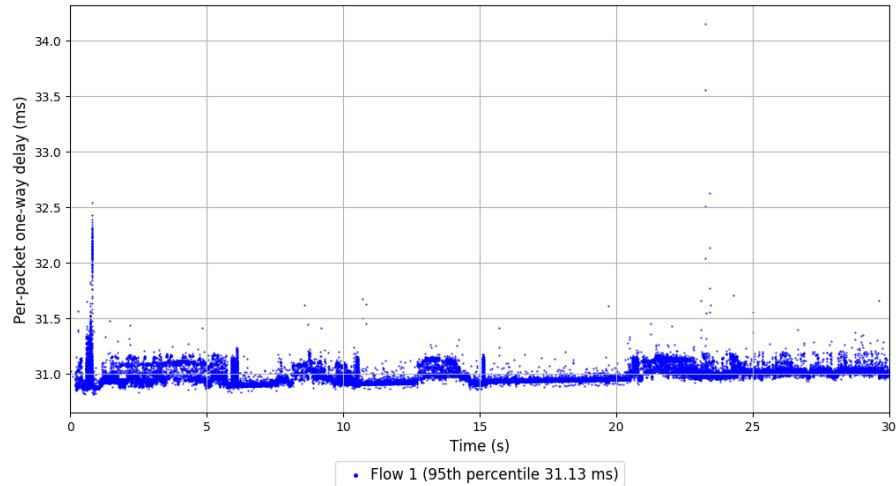
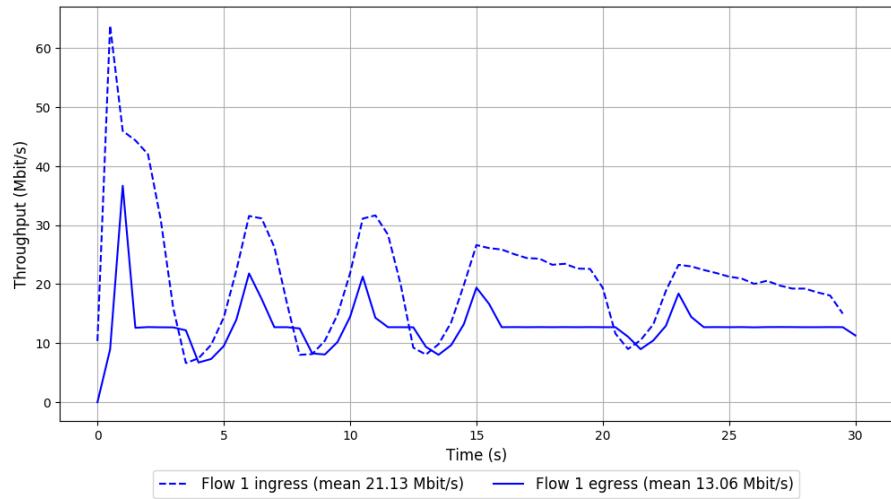


Run 4: Statistics of PCC-Expr

```
Start at: 2019-03-08 22:54:11
End at: 2019-03-08 22:54:41
Local clock offset: -0.713 ms
Remote clock offset: -1.128 ms

# Below is generated by plot.py at 2019-03-08 23:34:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.06 Mbit/s
95th percentile per-packet one-way delay: 31.133 ms
Loss rate: 38.19%
-- Flow 1:
Average throughput: 13.06 Mbit/s
95th percentile per-packet one-way delay: 31.133 ms
Loss rate: 38.19%
```

Run 4: Report of PCC-Expr — Data Link

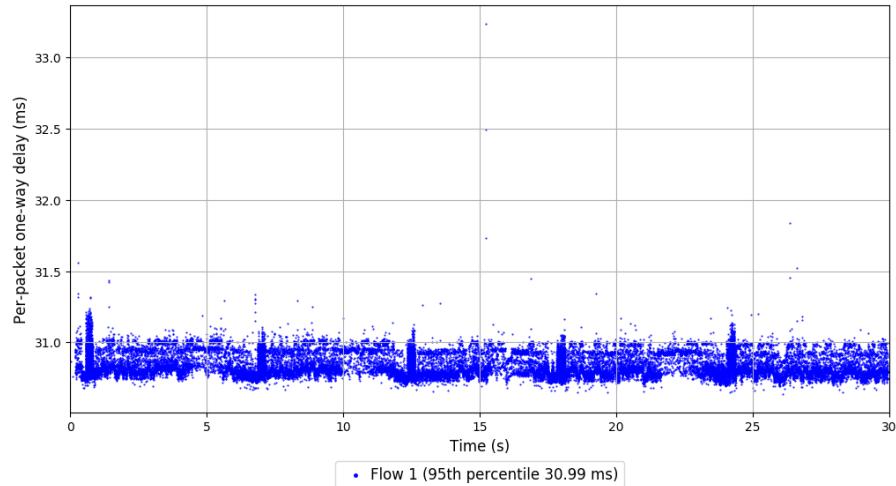
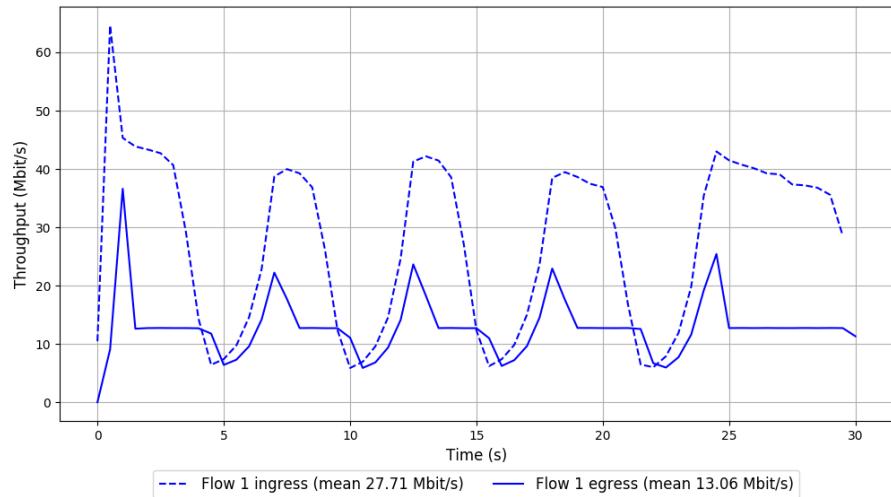


Run 5: Statistics of PCC-Expr

```
Start at: 2019-03-08 23:19:34
End at: 2019-03-08 23:20:04
Local clock offset: 1.416 ms
Remote clock offset: -1.116 ms

# Below is generated by plot.py at 2019-03-08 23:34:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.06 Mbit/s
95th percentile per-packet one-way delay: 30.994 ms
Loss rate: 52.86%
-- Flow 1:
Average throughput: 13.06 Mbit/s
95th percentile per-packet one-way delay: 30.994 ms
Loss rate: 52.86%
```

Run 5: Report of PCC-Expr — Data Link

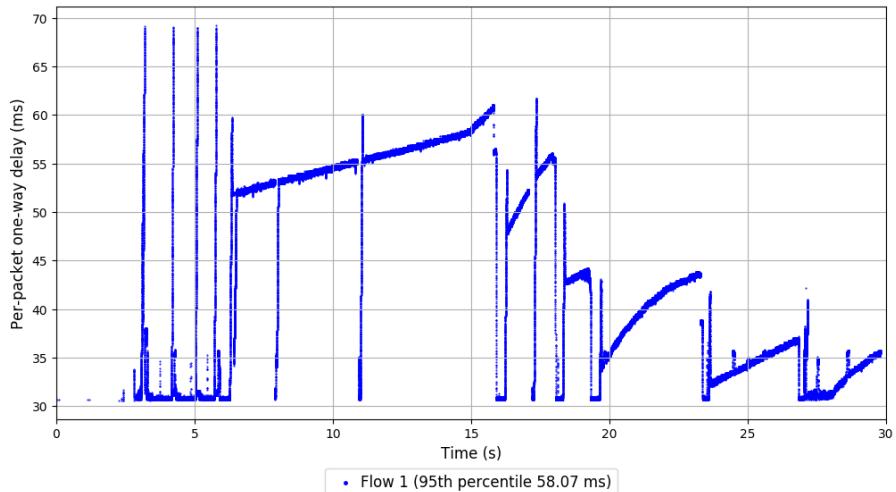
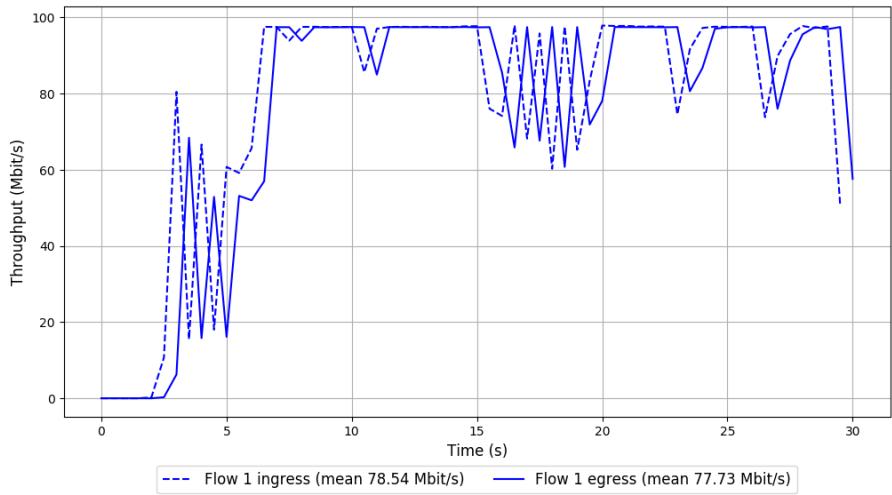


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-03-08 21:33:42
End at: 2019-03-08 21:34:12
Local clock offset: -0.435 ms
Remote clock offset: -3.018 ms

# Below is generated by plot.py at 2019-03-08 23:35:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.73 Mbit/s
95th percentile per-packet one-way delay: 58.069 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 77.73 Mbit/s
95th percentile per-packet one-way delay: 58.069 ms
Loss rate: 1.02%
```

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

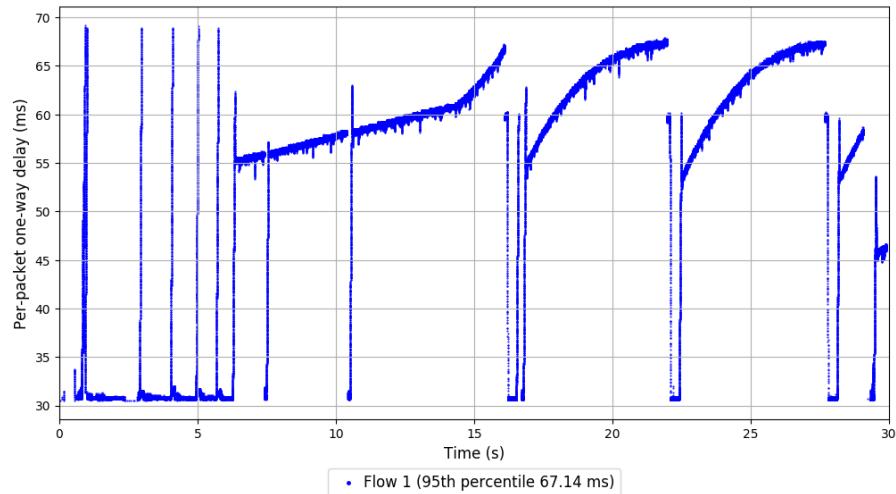
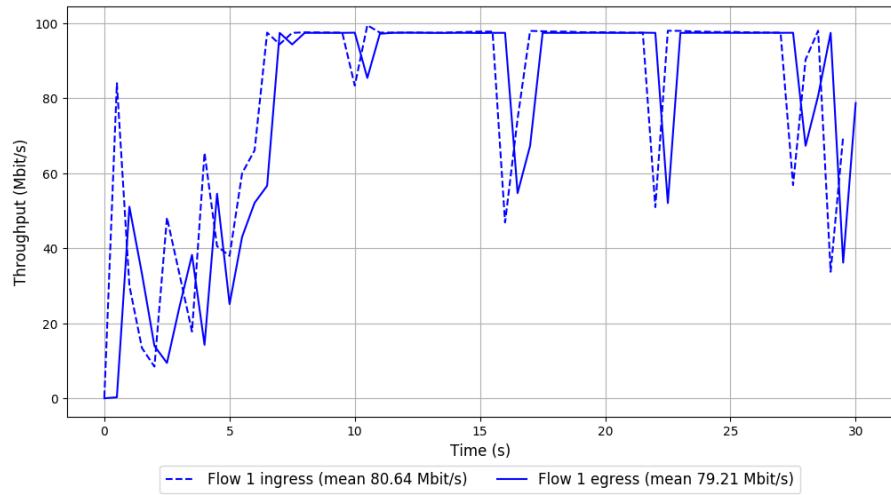


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-03-08 21:58:08
End at: 2019-03-08 21:58:38
Local clock offset: -2.504 ms
Remote clock offset: -2.293 ms

# Below is generated by plot.py at 2019-03-08 23:35:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.21 Mbit/s
95th percentile per-packet one-way delay: 67.145 ms
Loss rate: 1.72%
-- Flow 1:
Average throughput: 79.21 Mbit/s
95th percentile per-packet one-way delay: 67.145 ms
Loss rate: 1.72%
```

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

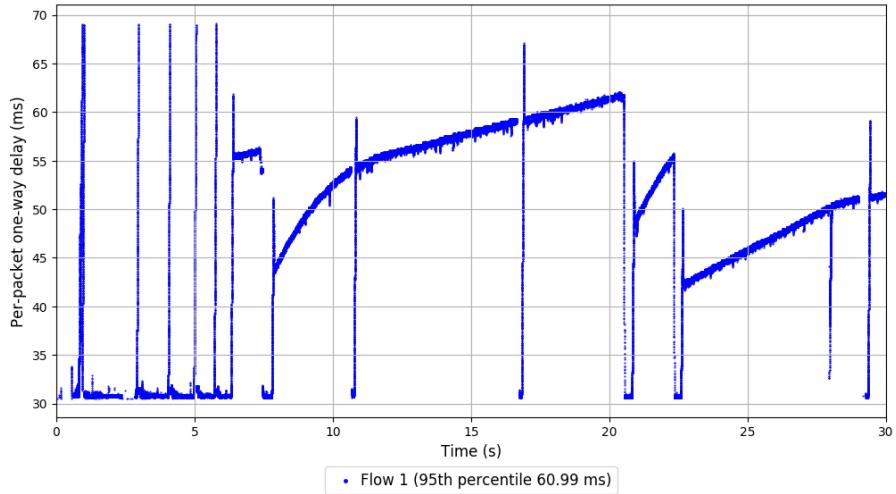
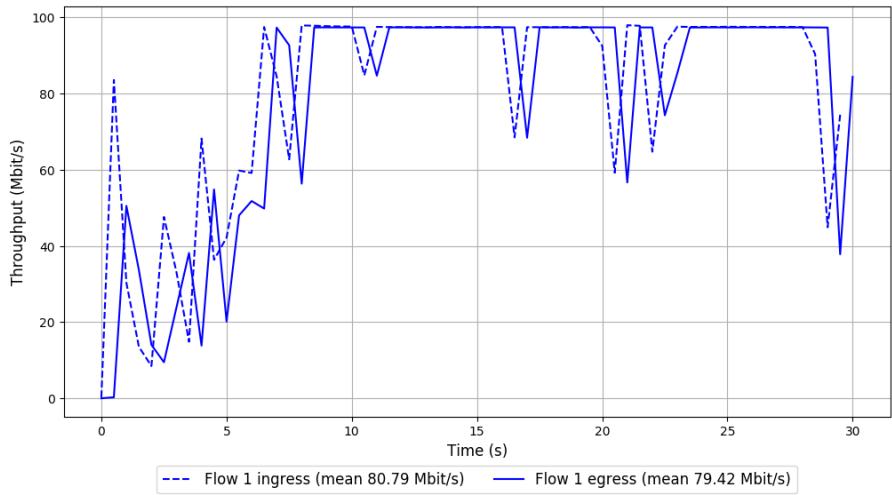


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-03-08 22:23:18
End at: 2019-03-08 22:23:48
Local clock offset: -3.898 ms
Remote clock offset: -1.695 ms

# Below is generated by plot.py at 2019-03-08 23:35:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.42 Mbit/s
95th percentile per-packet one-way delay: 60.995 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 79.42 Mbit/s
95th percentile per-packet one-way delay: 60.995 ms
Loss rate: 1.63%
```

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

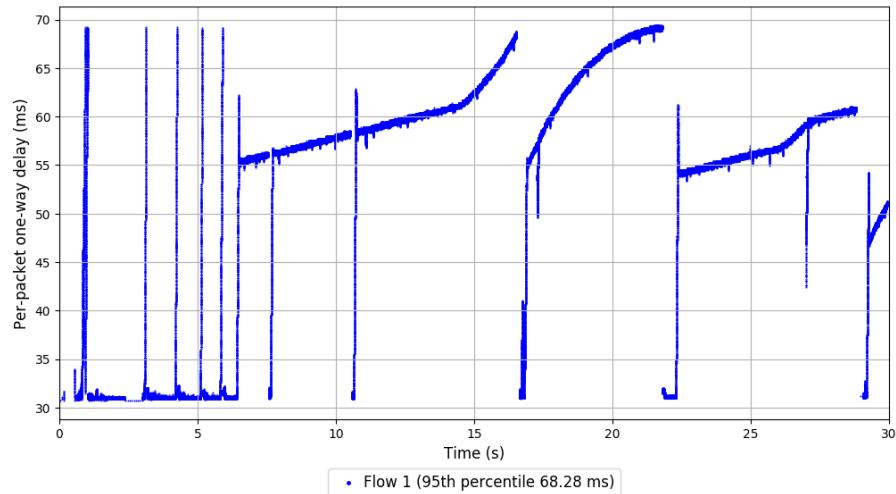
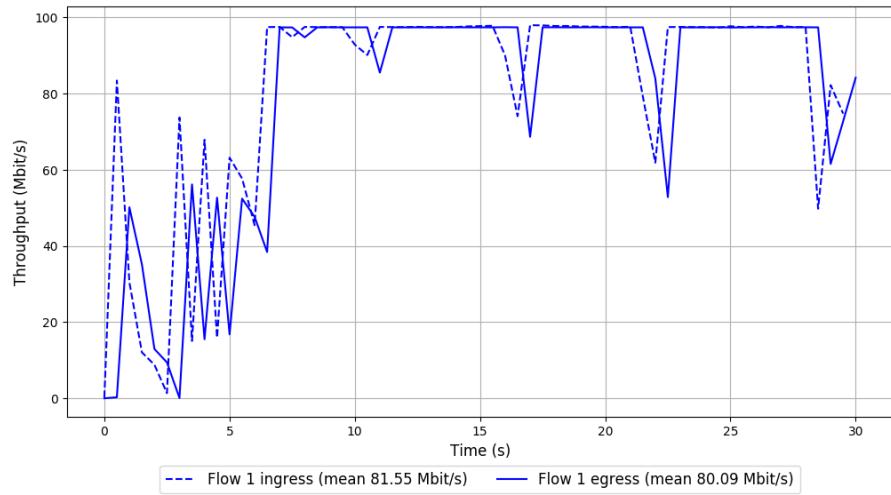


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-03-08 22:49:23
End at: 2019-03-08 22:49:53
Local clock offset: -2.218 ms
Remote clock offset: -1.205 ms

# Below is generated by plot.py at 2019-03-08 23:35:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.09 Mbit/s
95th percentile per-packet one-way delay: 68.278 ms
Loss rate: 1.73%
-- Flow 1:
Average throughput: 80.09 Mbit/s
95th percentile per-packet one-way delay: 68.278 ms
Loss rate: 1.73%
```

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

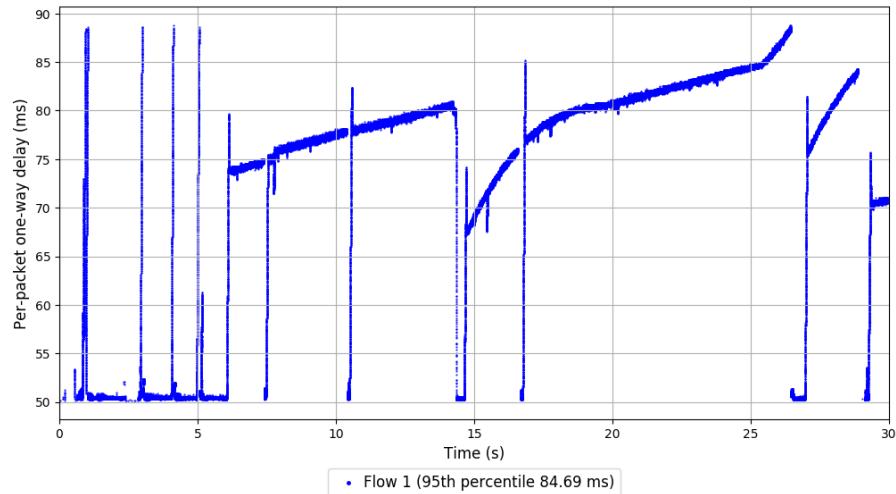
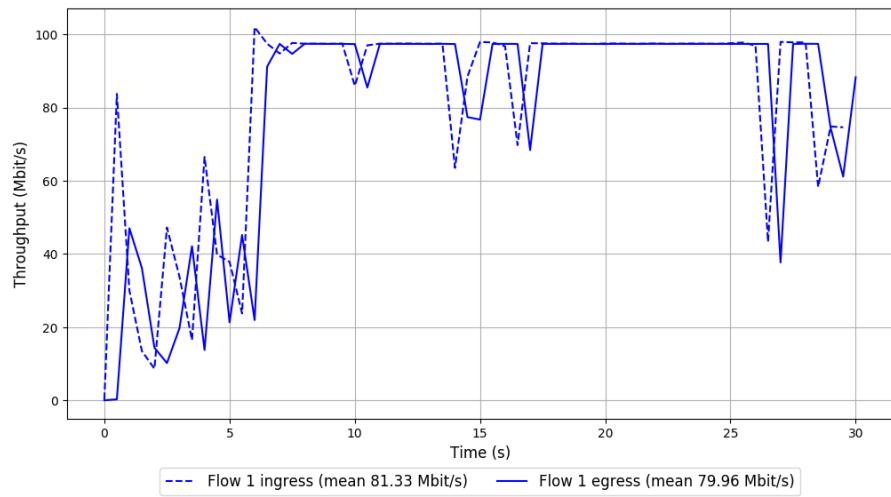


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-03-08 23:14:57
End at: 2019-03-08 23:15:27
Local clock offset: 1.84 ms
Remote clock offset: 18.462 ms

# Below is generated by plot.py at 2019-03-08 23:35:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.96 Mbit/s
95th percentile per-packet one-way delay: 84.694 ms
Loss rate: 1.61%
-- Flow 1:
Average throughput: 79.96 Mbit/s
95th percentile per-packet one-way delay: 84.694 ms
Loss rate: 1.61%
```

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

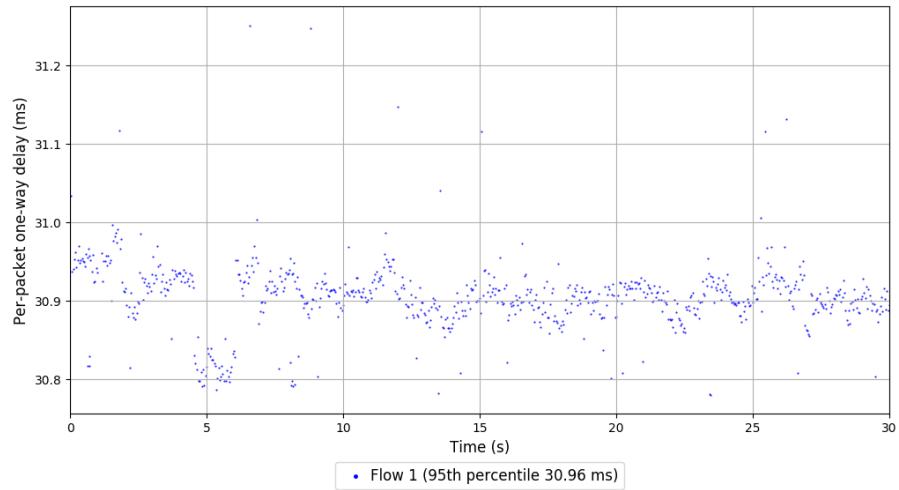
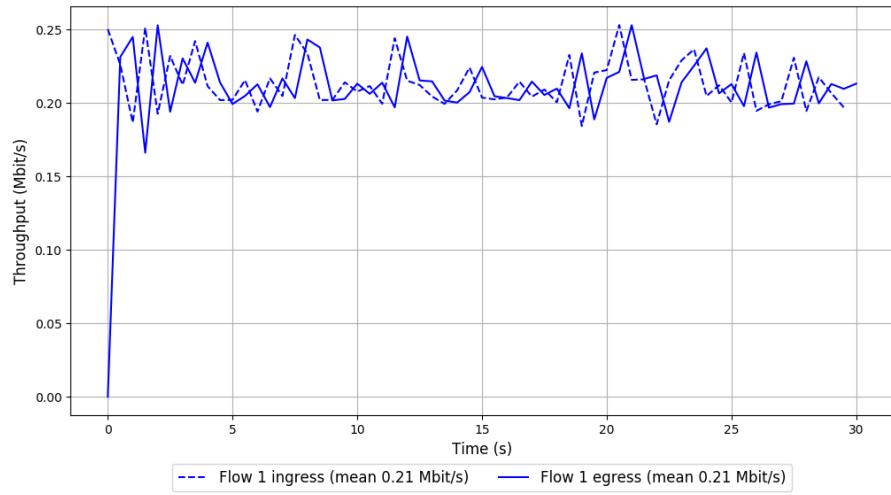


```
Run 1: Statistics of SCReAM
```

```
Start at: 2019-03-08 21:22:08
End at: 2019-03-08 21:22:38
Local clock offset: -0.252 ms
Remote clock offset: -3.279 ms

# Below is generated by plot.py at 2019-03-08 23:35:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.956 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.956 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

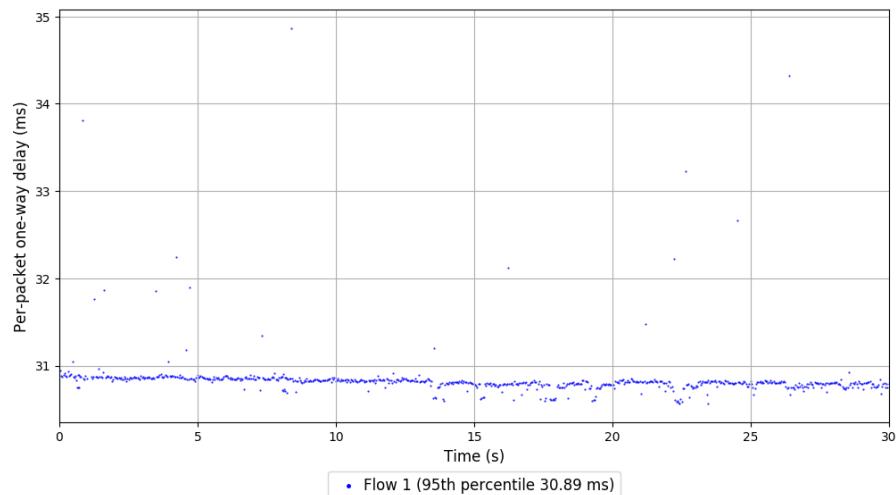
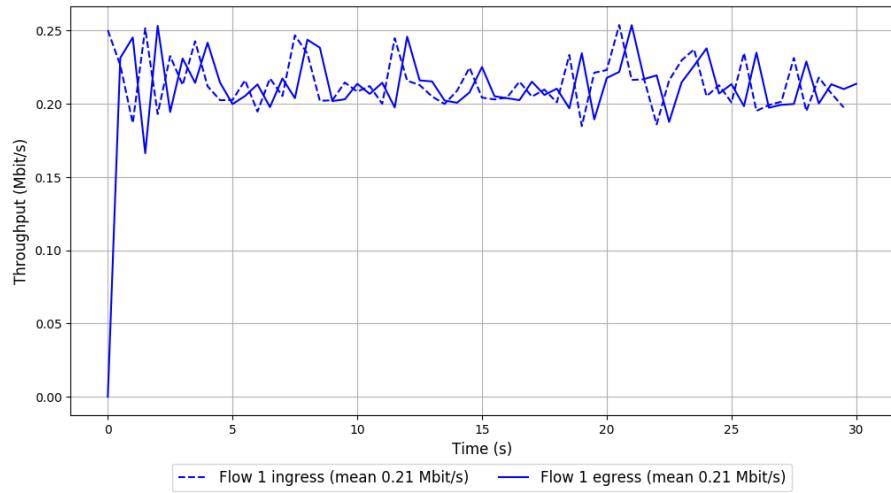


Run 2: Statistics of SCReAM

```
Start at: 2019-03-08 21:46:28
End at: 2019-03-08 21:46:58
Local clock offset: -1.036 ms
Remote clock offset: -2.609 ms

# Below is generated by plot.py at 2019-03-08 23:35:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.889 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.889 ms
Loss rate: 0.00%
```

## Run 2: Report of SCReAM — Data Link

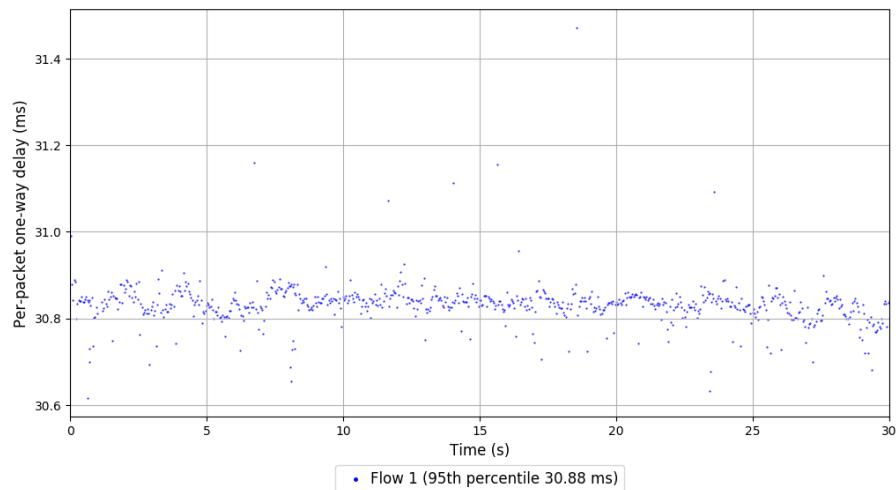
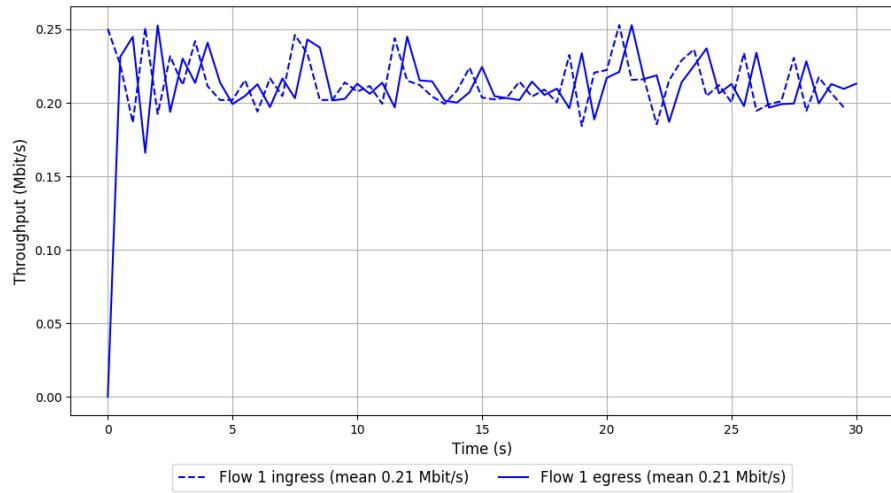


Run 3: Statistics of SCReAM

```
Start at: 2019-03-08 22:11:10
End at: 2019-03-08 22:11:40
Local clock offset: -3.284 ms
Remote clock offset: -1.96 ms

# Below is generated by plot.py at 2019-03-08 23:35:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.879 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.879 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

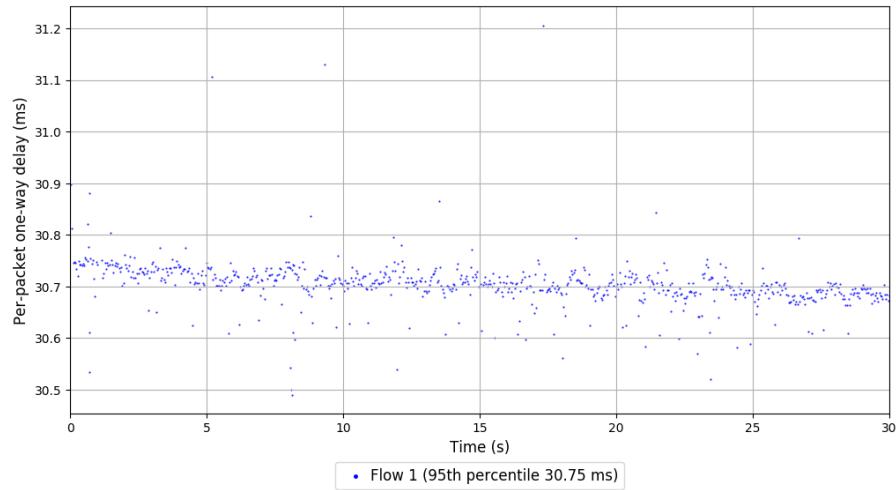
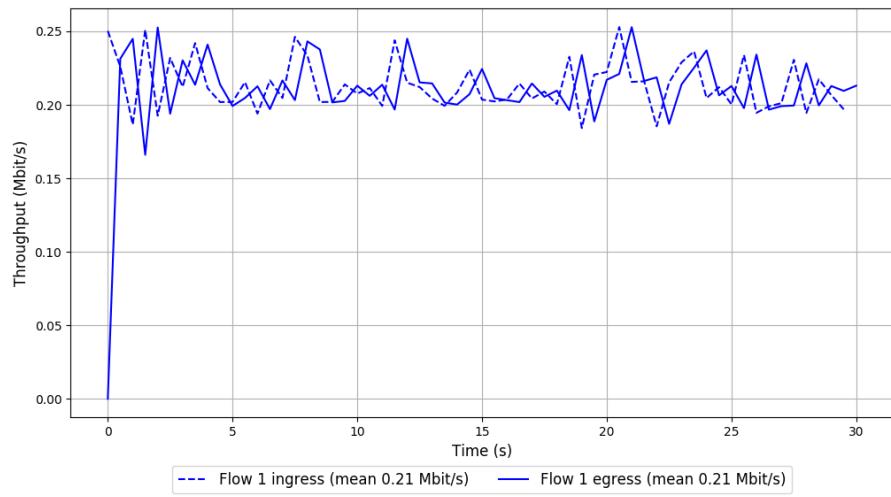


Run 4: Statistics of SCReAM

```
Start at: 2019-03-08 22:36:49
End at: 2019-03-08 22:37:19
Local clock offset: -4.563 ms
Remote clock offset: -1.512 ms

# Below is generated by plot.py at 2019-03-08 23:35:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.748 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.748 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

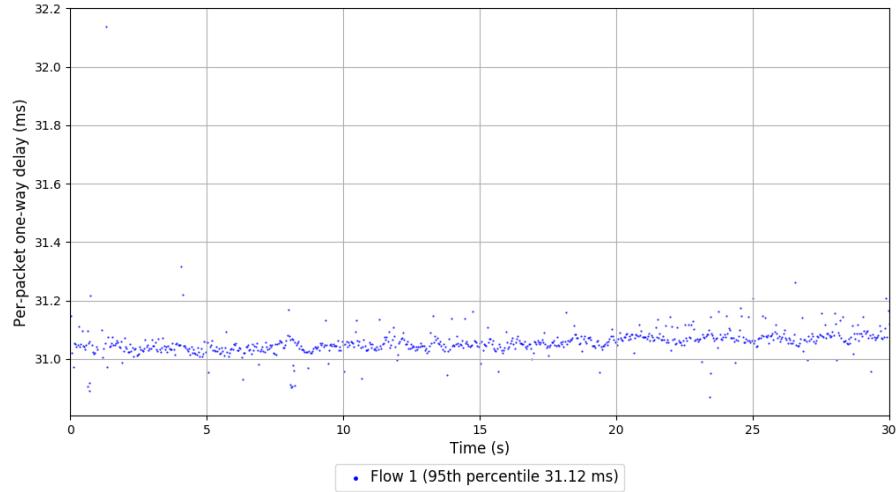
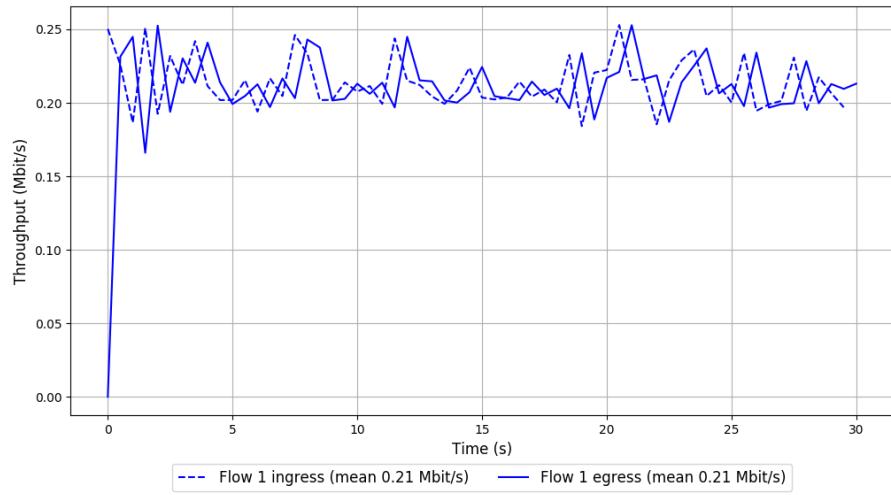


Run 5: Statistics of SCReAM

```
Start at: 2019-03-08 23:03:02
End at: 2019-03-08 23:03:32
Local clock offset: 0.834 ms
Remote clock offset: -1.111 ms

# Below is generated by plot.py at 2019-03-08 23:35:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.118 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.118 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

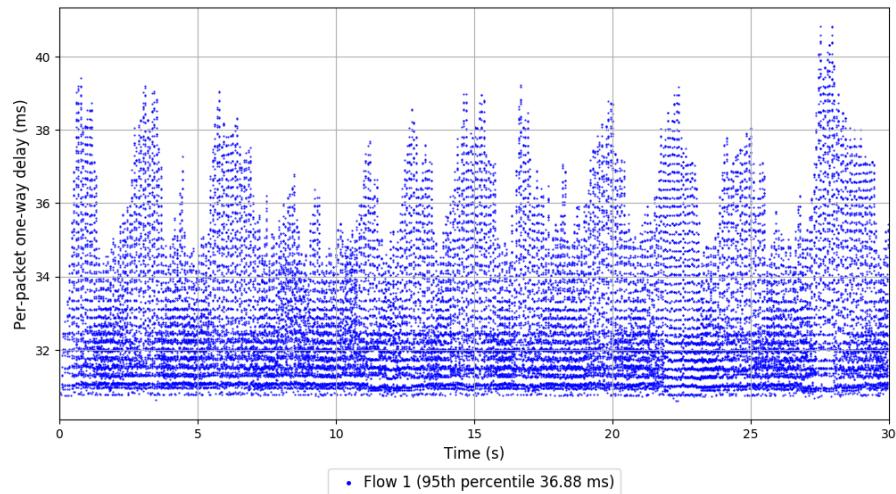
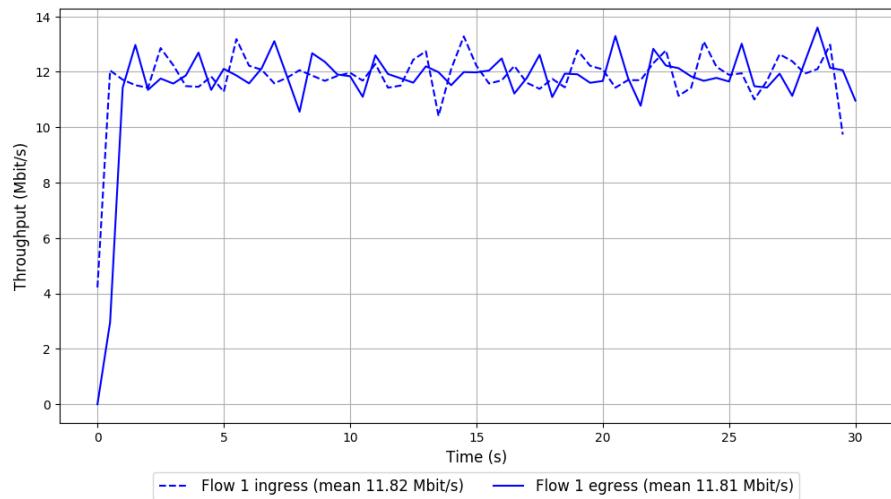


Run 1: Statistics of Sprout

```
Start at: 2019-03-08 21:42:58
End at: 2019-03-08 21:43:28
Local clock offset: -0.583 ms
Remote clock offset: -2.716 ms

# Below is generated by plot.py at 2019-03-08 23:35:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.81 Mbit/s
95th percentile per-packet one-way delay: 36.877 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 11.81 Mbit/s
95th percentile per-packet one-way delay: 36.877 ms
Loss rate: 0.02%
```

Run 1: Report of Sprout — Data Link

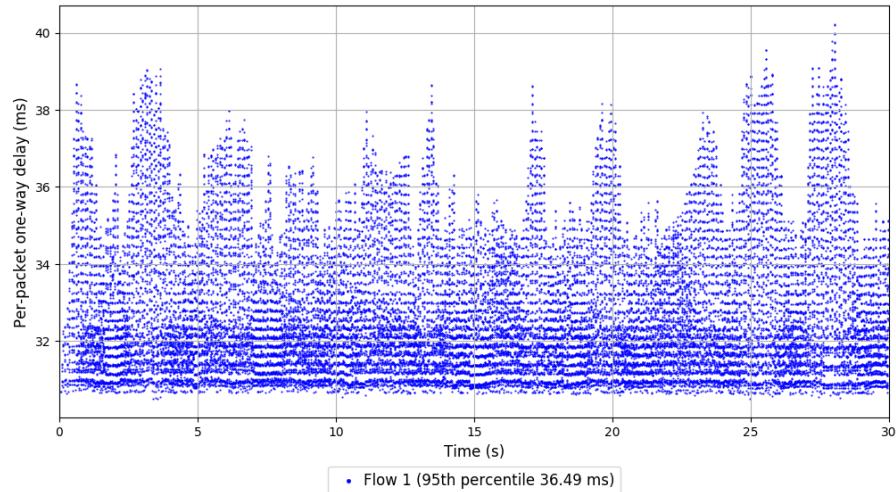
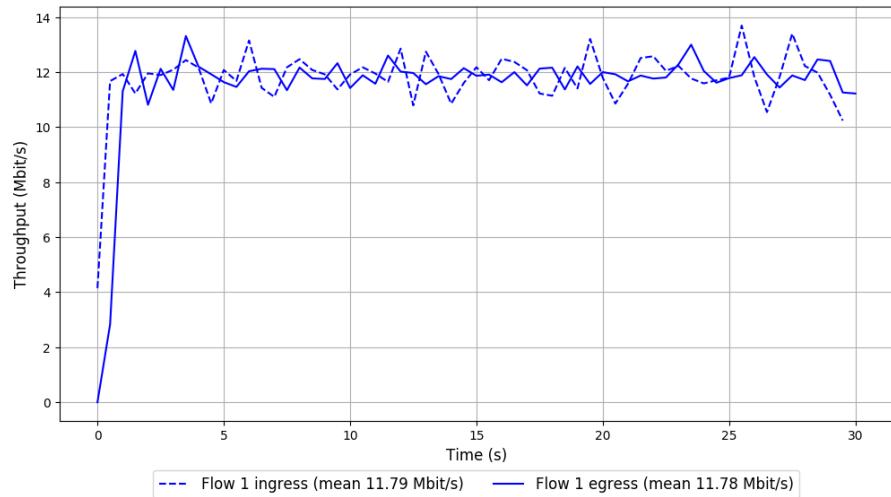


Run 2: Statistics of Sprout

```
Start at: 2019-03-08 22:07:21
End at: 2019-03-08 22:07:51
Local clock offset: -3.072 ms
Remote clock offset: -2.029 ms

# Below is generated by plot.py at 2019-03-08 23:35:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.78 Mbit/s
95th percentile per-packet one-way delay: 36.493 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 11.78 Mbit/s
95th percentile per-packet one-way delay: 36.493 ms
Loss rate: 0.09%
```

## Run 2: Report of Sprout — Data Link

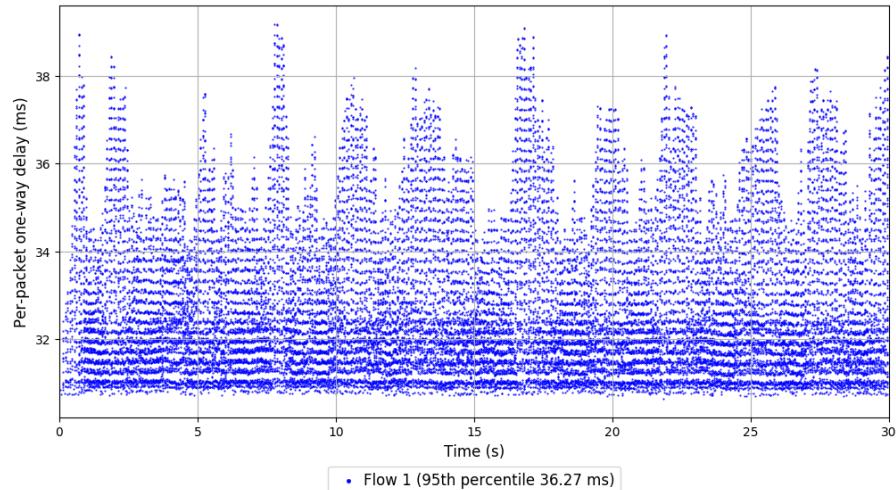
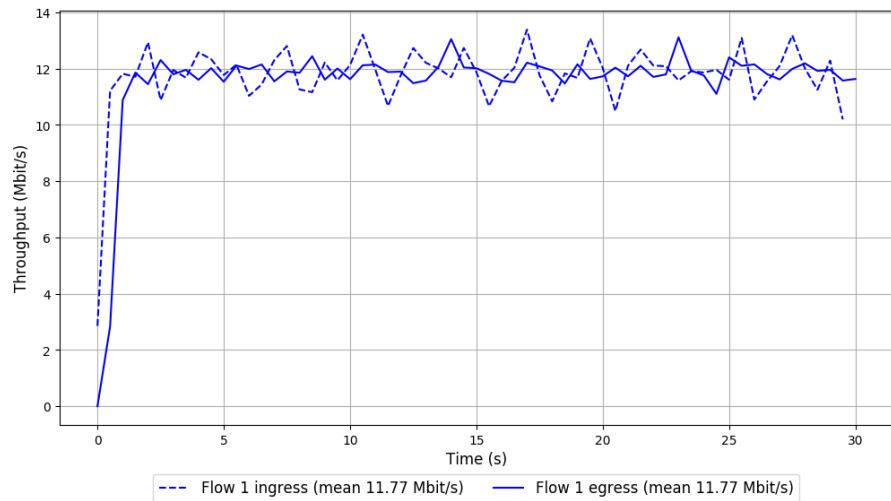


Run 3: Statistics of Sprout

```
Start at: 2019-03-08 22:33:12
End at: 2019-03-08 22:33:42
Local clock offset: -4.387 ms
Remote clock offset: -1.403 ms

# Below is generated by plot.py at 2019-03-08 23:35:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.77 Mbit/s
95th percentile per-packet one-way delay: 36.269 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.77 Mbit/s
95th percentile per-packet one-way delay: 36.269 ms
Loss rate: 0.00%
```

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

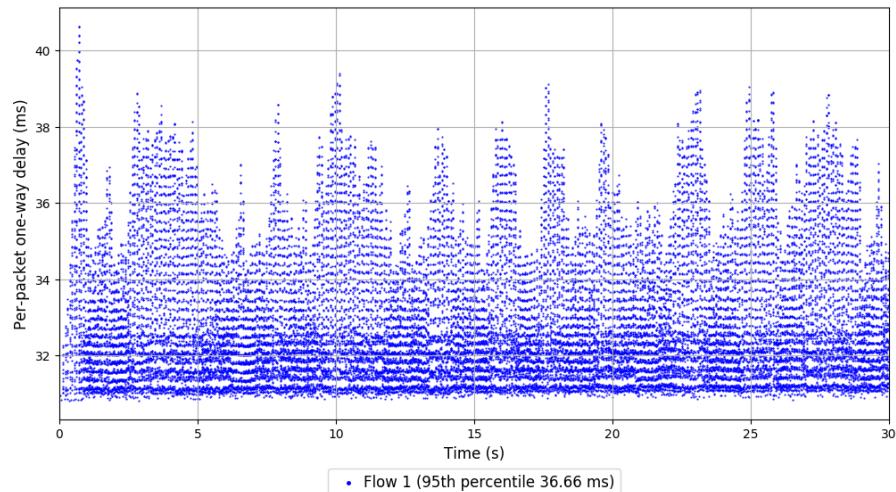
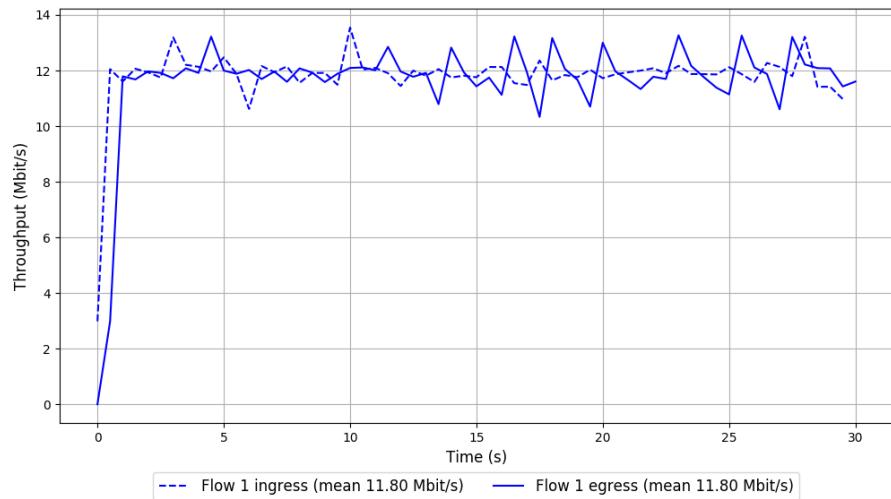


Run 4: Statistics of Sprout

```
Start at: 2019-03-08 22:59:13
End at: 2019-03-08 22:59:43
Local clock offset: 0.286 ms
Remote clock offset: -1.148 ms

# Below is generated by plot.py at 2019-03-08 23:35:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.80 Mbit/s
95th percentile per-packet one-way delay: 36.663 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.80 Mbit/s
95th percentile per-packet one-way delay: 36.663 ms
Loss rate: 0.00%
```

## Run 4: Report of Sprout — Data Link

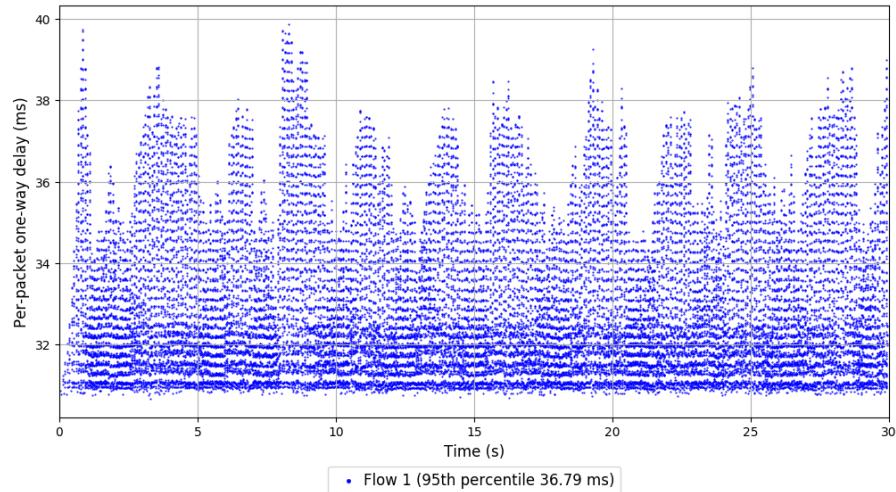
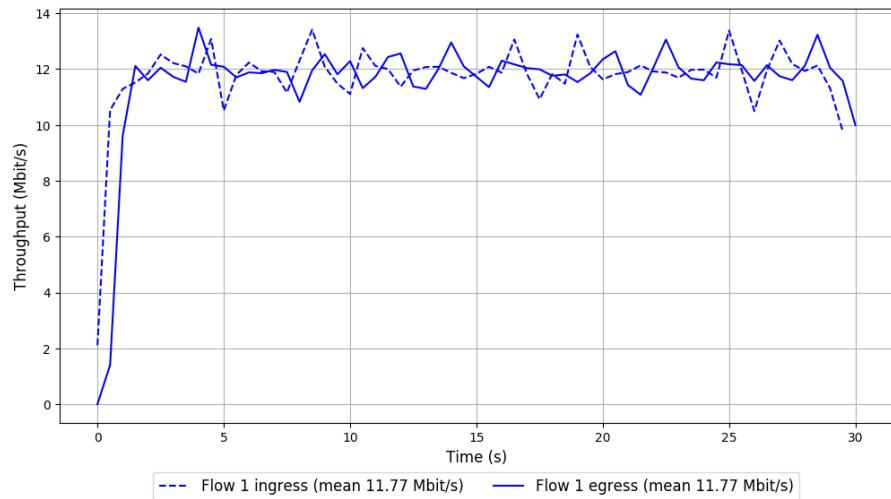


Run 5: Statistics of Sprout

```
Start at: 2019-03-08 23:24:22
End at: 2019-03-08 23:24:52
Local clock offset: 1.23 ms
Remote clock offset: -1.08 ms

# Below is generated by plot.py at 2019-03-08 23:35:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.77 Mbit/s
95th percentile per-packet one-way delay: 36.792 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 11.77 Mbit/s
95th percentile per-packet one-way delay: 36.792 ms
Loss rate: 0.08%
```

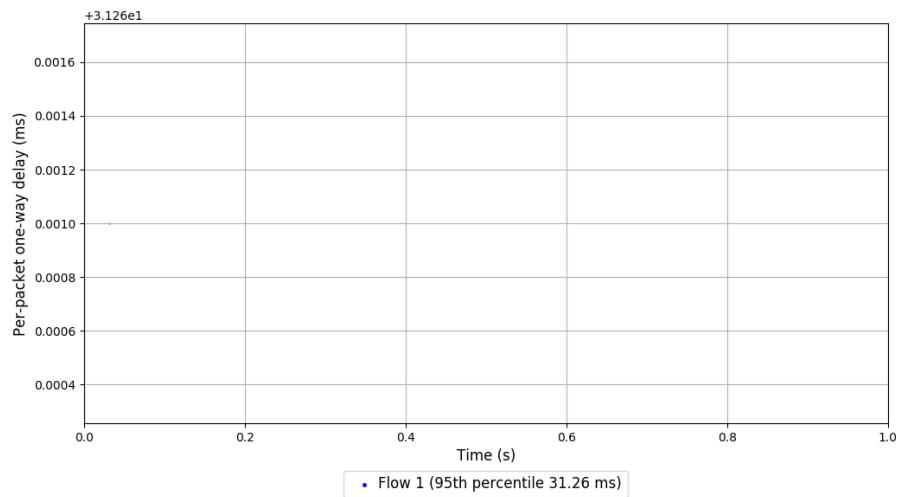
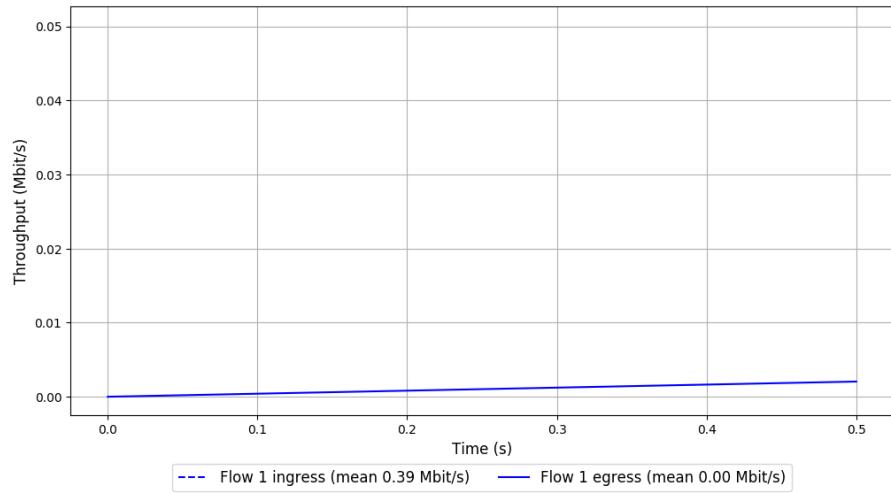
## Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-03-08 21:31:26  
End at: 2019-03-08 21:31:56  
Local clock offset: -0.396 ms  
Remote clock offset: -3.111 ms

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



Run 2: Statistics of TaoVA-100x

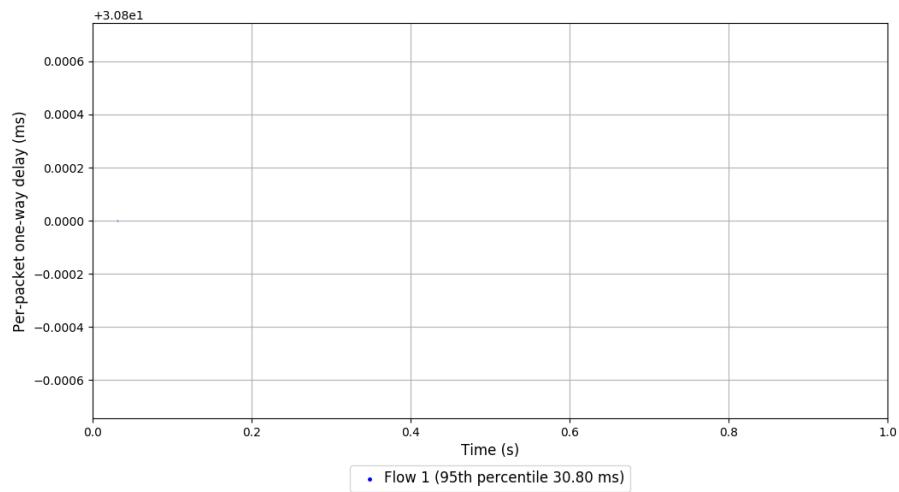
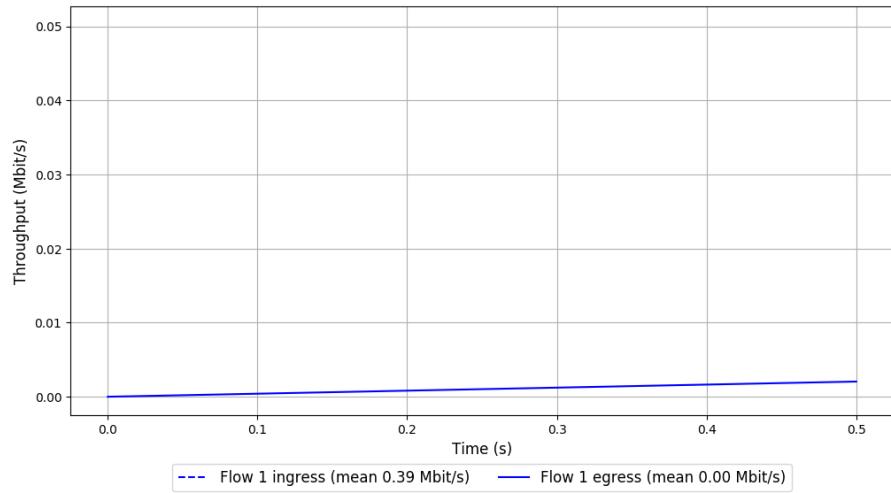
Start at: 2019-03-08 21:55:51

End at: 2019-03-08 21:56:21

Local clock offset: -2.293 ms

Remote clock offset: -2.35 ms

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



Run 3: Statistics of TaoVA-100x

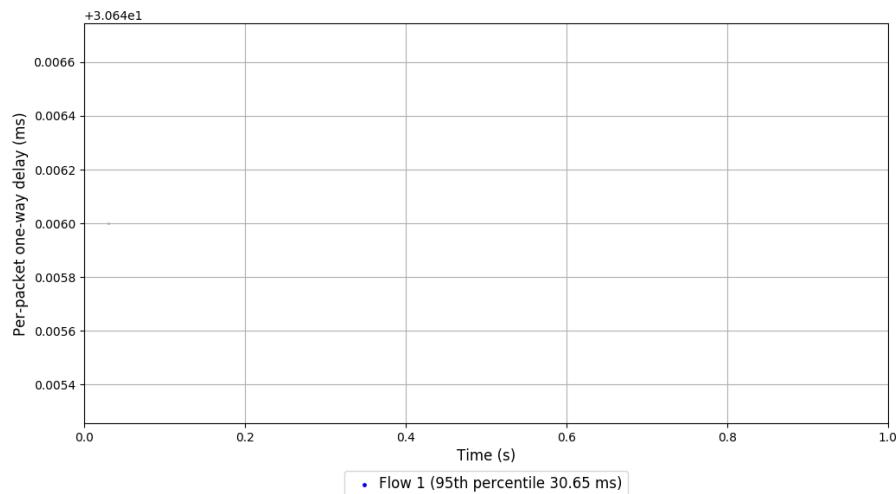
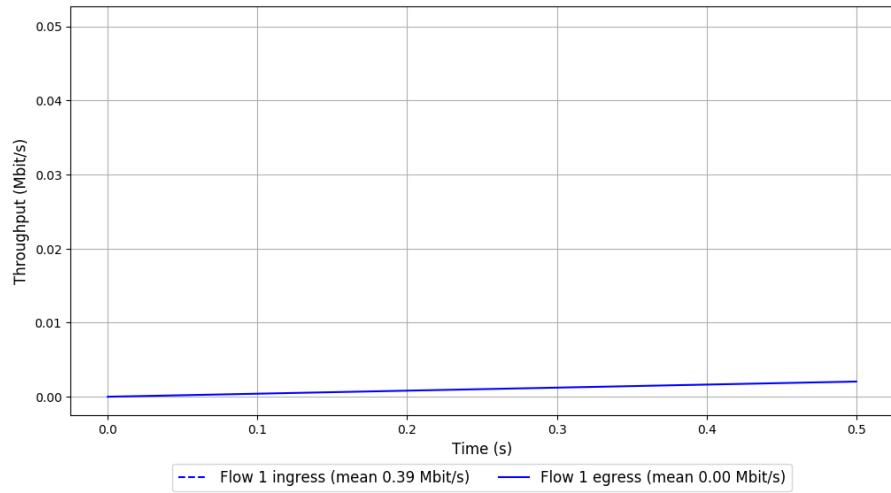
Start at: 2019-03-08 22:20:53

End at: 2019-03-08 22:21:23

Local clock offset: -3.77 ms

Remote clock offset: -1.967 ms

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



Run 4: Statistics of TaoVA-100x

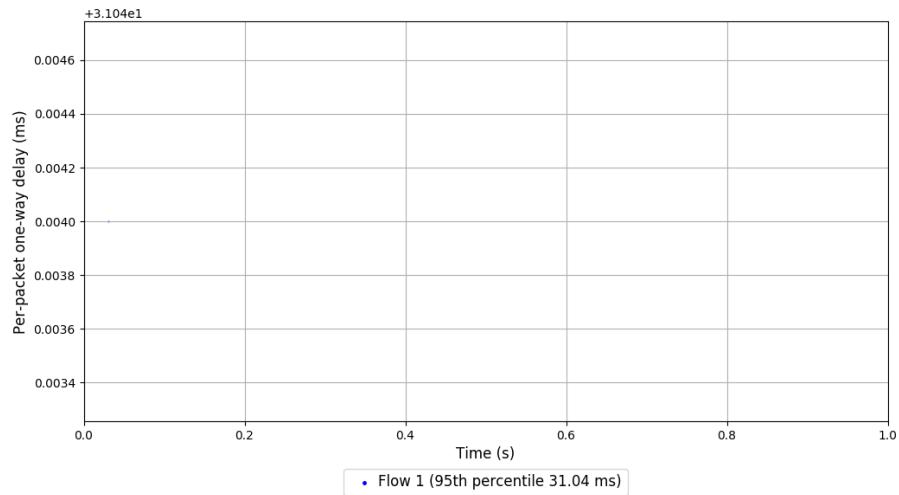
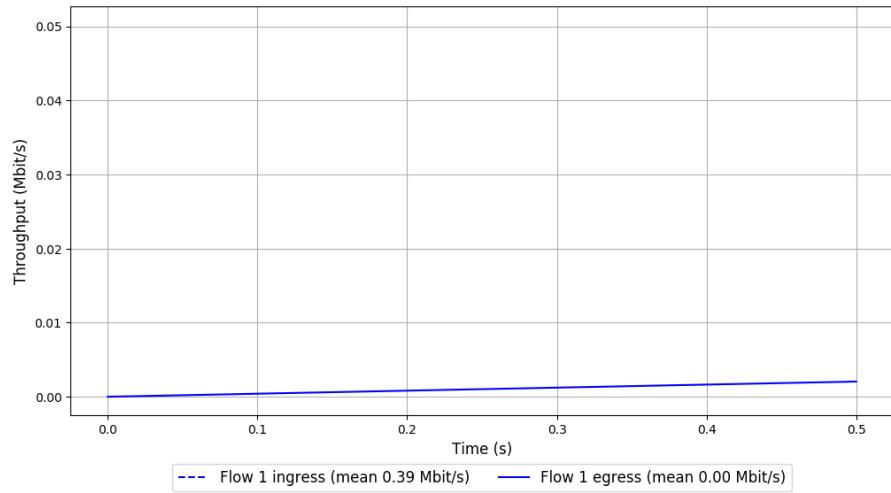
Start at: 2019-03-08 22:47:02

End at: 2019-03-08 22:47:32

Local clock offset: -3.305 ms

Remote clock offset: -1.214 ms

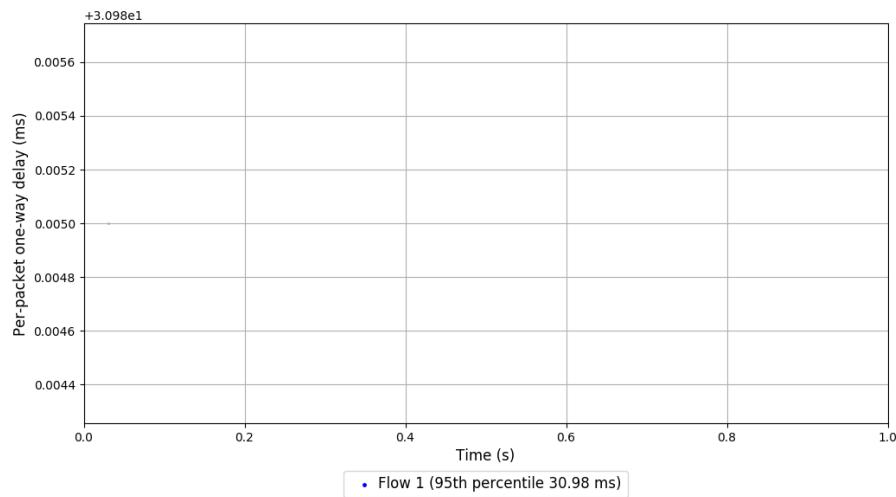
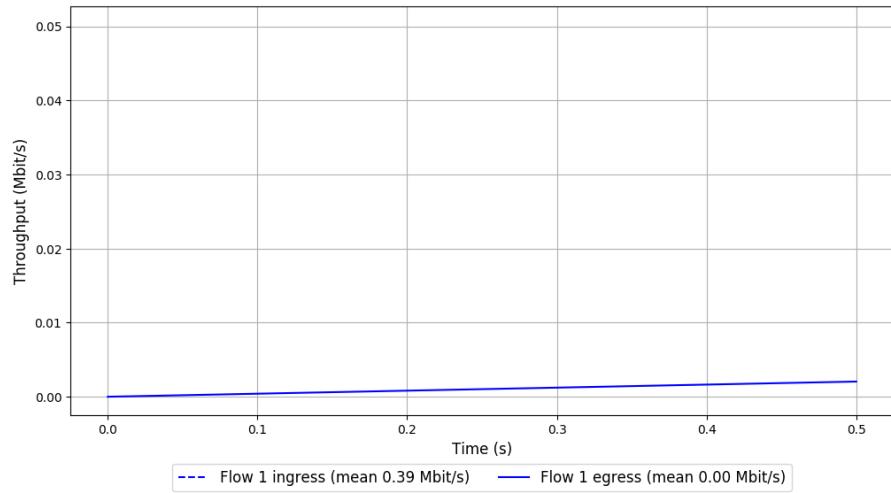
## Run 4: Report of TaoVA-100x — Data Link



Run 5: Statistics of TaoVA-100x

Start at: 2019-03-08 23:12:40  
End at: 2019-03-08 23:13:10  
Local clock offset: 1.76 ms  
Remote clock offset: -1.172 ms

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

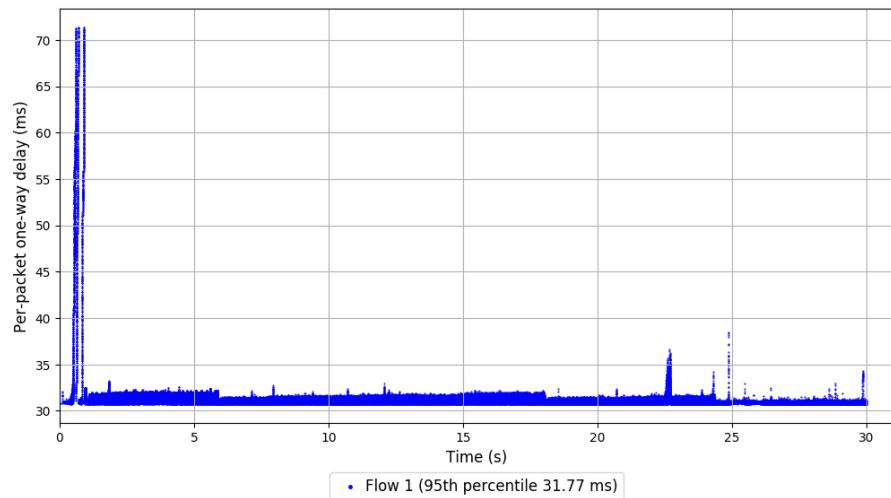
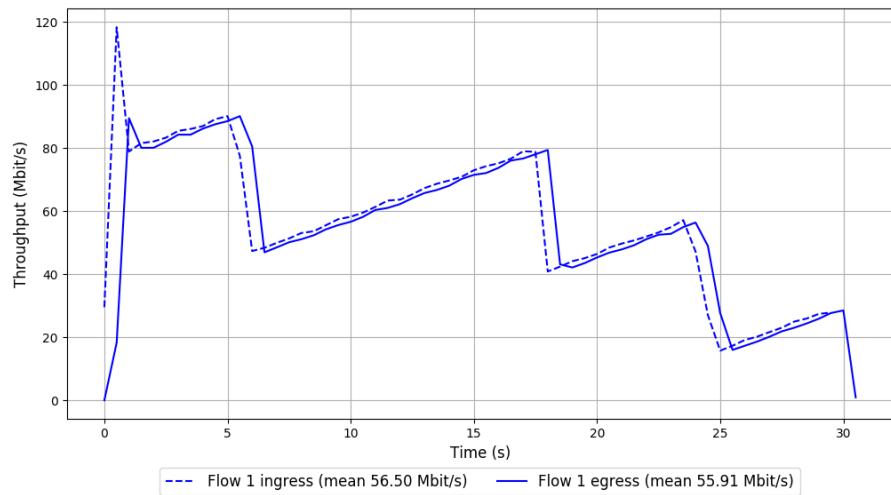


Run 1: Statistics of TCP Vegas

```
Start at: 2019-03-08 21:29:07
End at: 2019-03-08 21:29:37
Local clock offset: -0.371 ms
Remote clock offset: -3.126 ms

# Below is generated by plot.py at 2019-03-08 23:35:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.91 Mbit/s
95th percentile per-packet one-way delay: 31.772 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 55.91 Mbit/s
95th percentile per-packet one-way delay: 31.772 ms
Loss rate: 1.04%
```

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

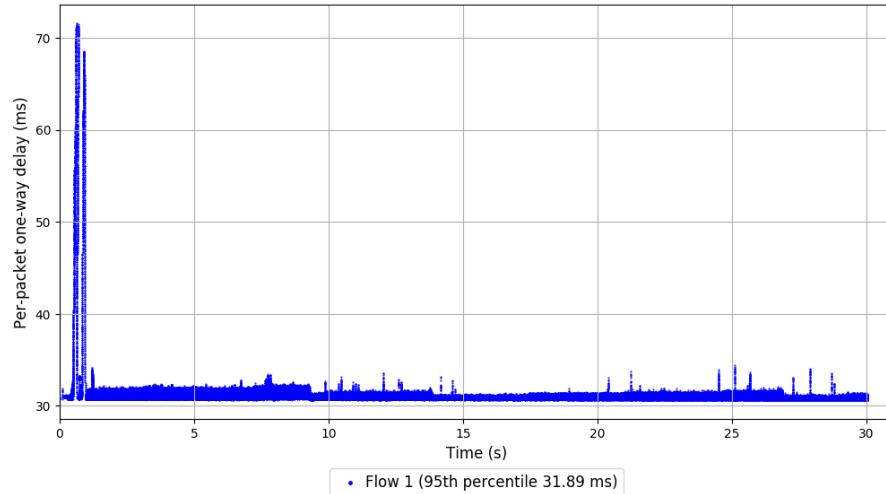
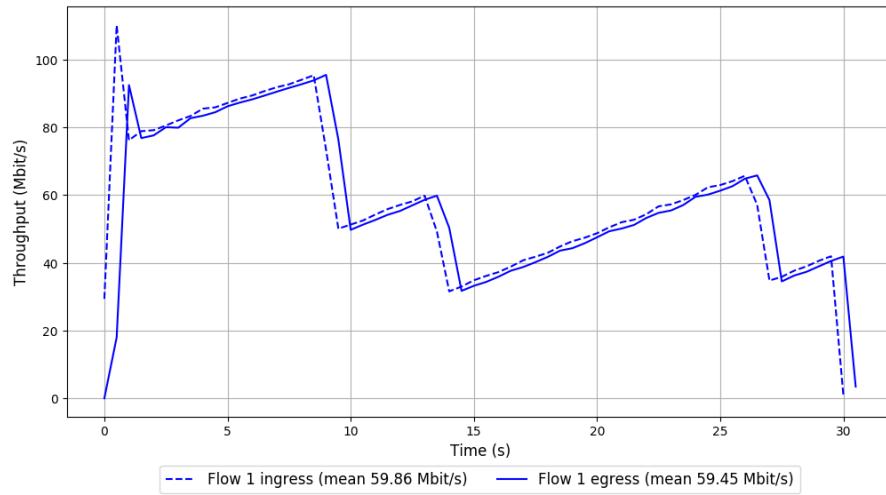


Run 2: Statistics of TCP Vegas

```
Start at: 2019-03-08 21:53:32
End at: 2019-03-08 21:54:02
Local clock offset: -2.043 ms
Remote clock offset: -2.404 ms

# Below is generated by plot.py at 2019-03-08 23:35:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.45 Mbit/s
95th percentile per-packet one-way delay: 31.888 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 59.45 Mbit/s
95th percentile per-packet one-way delay: 31.888 ms
Loss rate: 0.68%
```

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

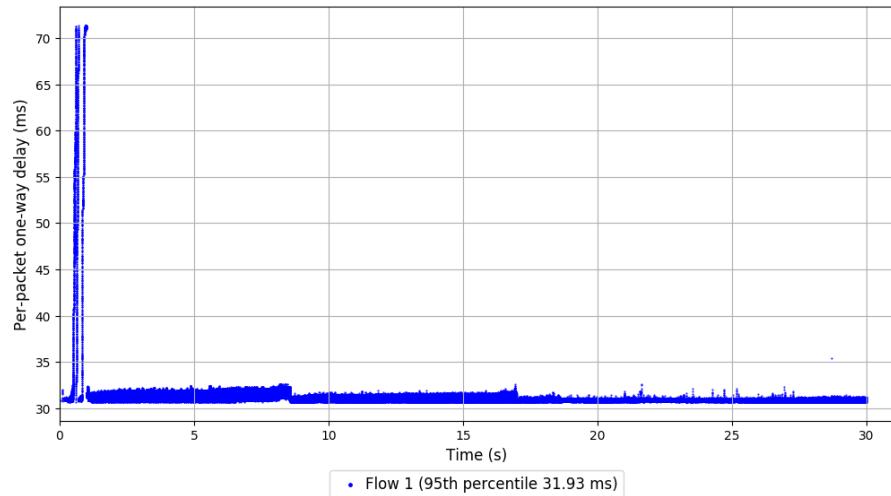
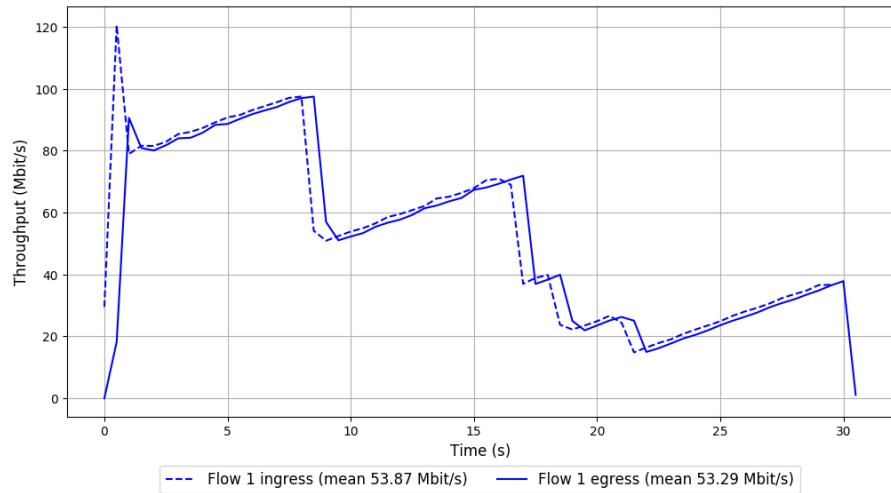


Run 3: Statistics of TCP Vegas

```
Start at: 2019-03-08 22:18:31
End at: 2019-03-08 22:19:01
Local clock offset: -3.669 ms
Remote clock offset: -1.769 ms

# Below is generated by plot.py at 2019-03-08 23:35:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.29 Mbit/s
95th percentile per-packet one-way delay: 31.931 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 53.29 Mbit/s
95th percentile per-packet one-way delay: 31.931 ms
Loss rate: 1.09%
```

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

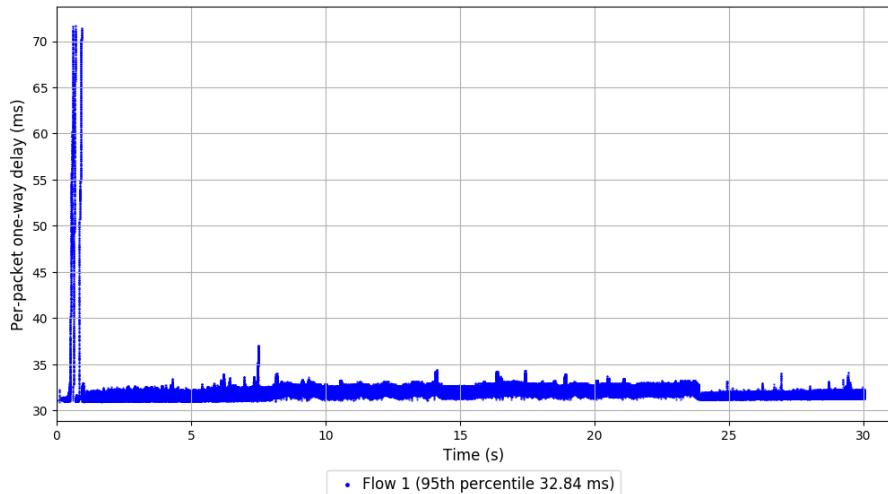
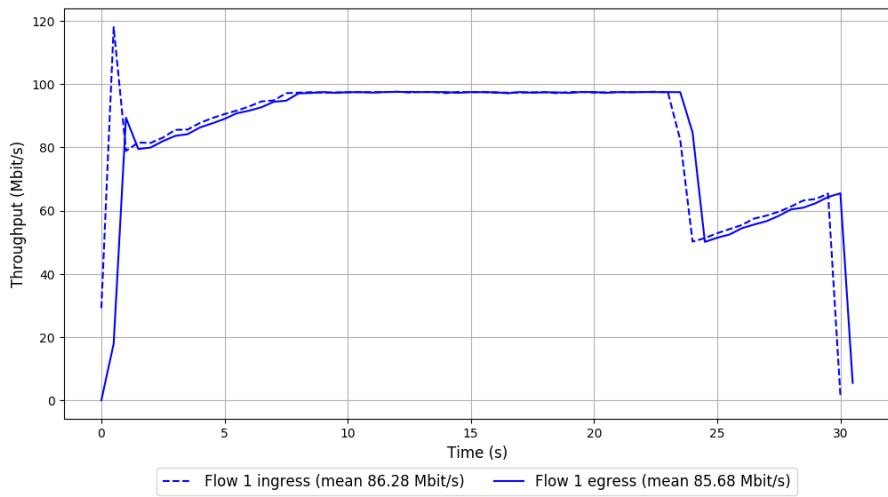


Run 4: Statistics of TCP Vegas

```
Start at: 2019-03-08 22:44:38
End at: 2019-03-08 22:45:08
Local clock offset: -4.725 ms
Remote clock offset: -1.263 ms

# Below is generated by plot.py at 2019-03-08 23:36:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.68 Mbit/s
95th percentile per-packet one-way delay: 32.841 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 85.68 Mbit/s
95th percentile per-packet one-way delay: 32.841 ms
Loss rate: 0.69%
```

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

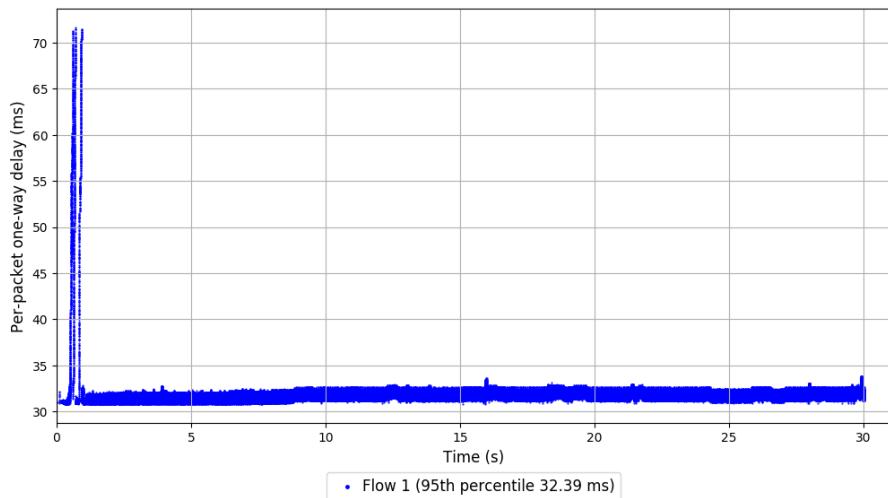
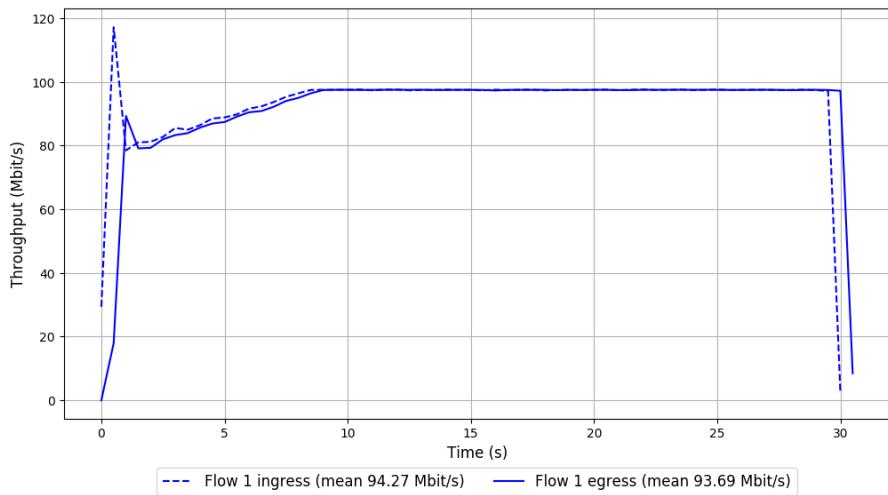


Run 5: Statistics of TCP Vegas

```
Start at: 2019-03-08 23:10:19
End at: 2019-03-08 23:10:49
Local clock offset: 1.573 ms
Remote clock offset: -1.173 ms

# Below is generated by plot.py at 2019-03-08 23:36:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.69 Mbit/s
95th percentile per-packet one-way delay: 32.390 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 93.69 Mbit/s
95th percentile per-packet one-way delay: 32.390 ms
Loss rate: 0.61%
```

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

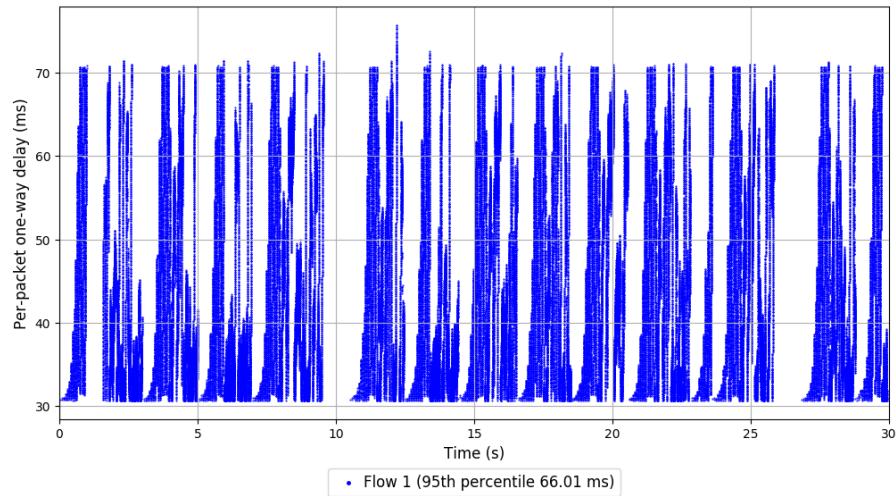
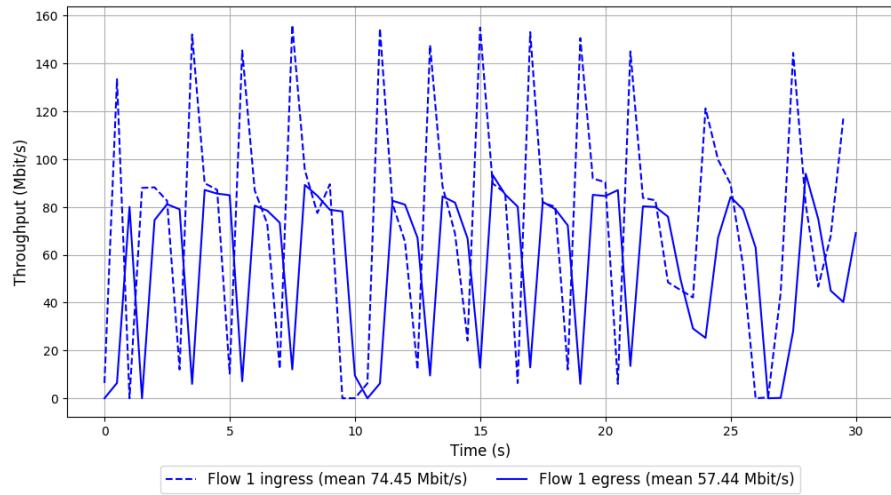


Run 1: Statistics of Verus

```
Start at: 2019-03-08 21:32:32
End at: 2019-03-08 21:33:02
Local clock offset: -0.424 ms
Remote clock offset: -3.095 ms

# Below is generated by plot.py at 2019-03-08 23:36:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.44 Mbit/s
95th percentile per-packet one-way delay: 66.010 ms
Loss rate: 22.85%
-- Flow 1:
Average throughput: 57.44 Mbit/s
95th percentile per-packet one-way delay: 66.010 ms
Loss rate: 22.85%
```

Run 1: Report of Verus — Data Link

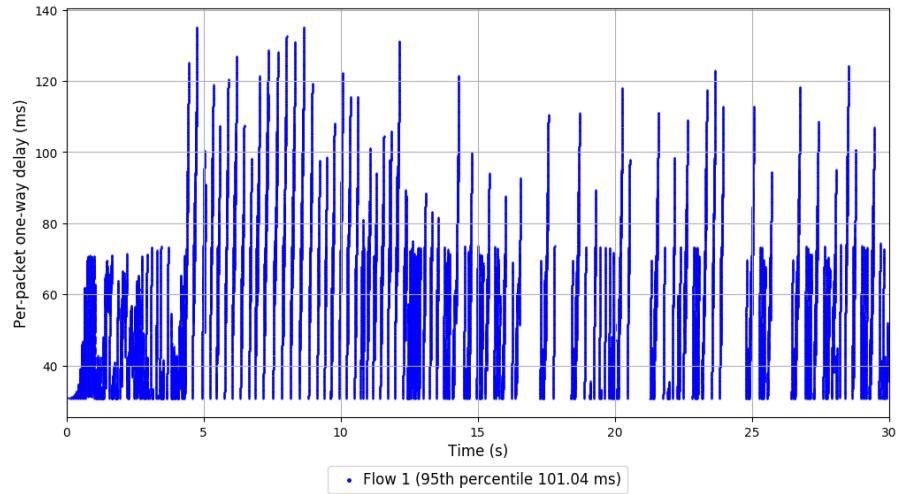
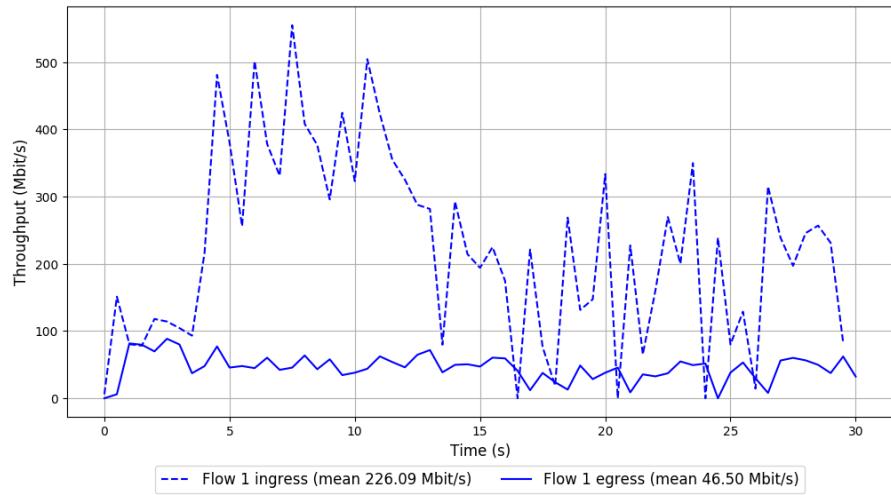


Run 2: Statistics of Verus

```
Start at: 2019-03-08 21:56:57
End at: 2019-03-08 21:57:27
Local clock offset: -2.383 ms
Remote clock offset: -2.274 ms

# Below is generated by plot.py at 2019-03-08 23:36:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.50 Mbit/s
95th percentile per-packet one-way delay: 101.037 ms
Loss rate: 79.42%
-- Flow 1:
Average throughput: 46.50 Mbit/s
95th percentile per-packet one-way delay: 101.037 ms
Loss rate: 79.42%
```

## Run 2: Report of Verus — Data Link

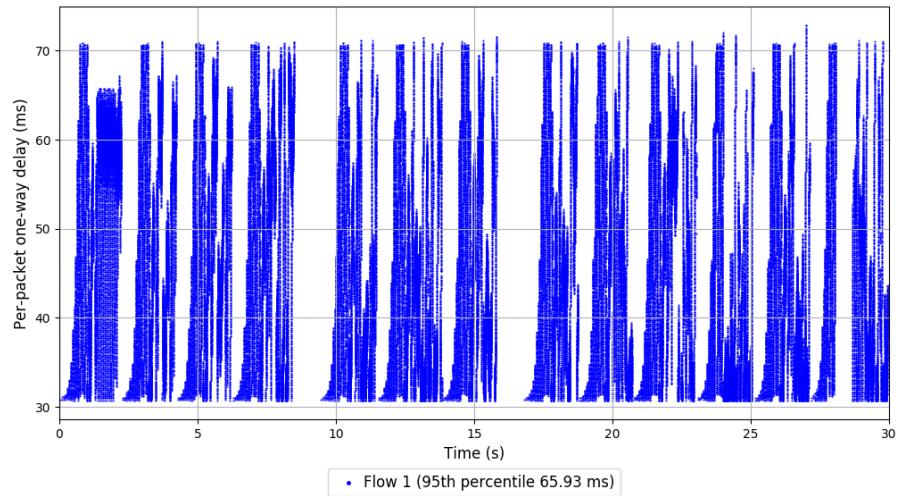
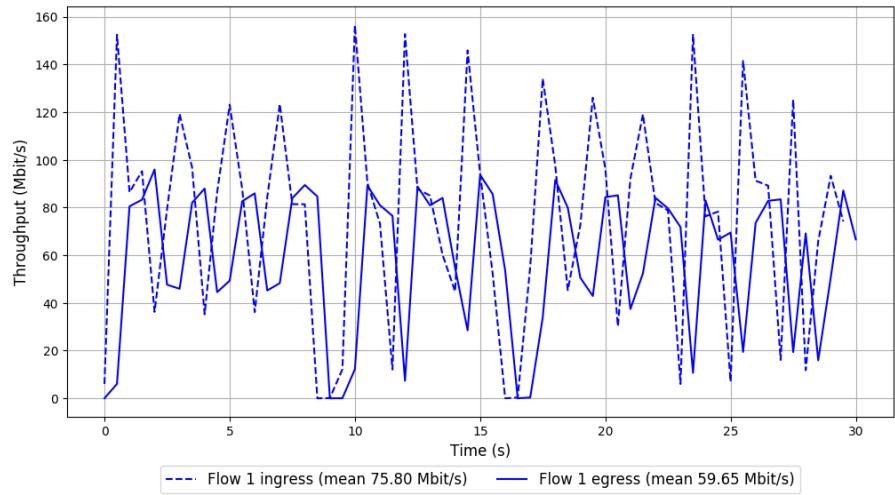


Run 3: Statistics of Verus

```
Start at: 2019-03-08 22:21:59
End at: 2019-03-08 22:22:29
Local clock offset: -3.813 ms
Remote clock offset: -1.757 ms

# Below is generated by plot.py at 2019-03-08 23:36:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.65 Mbit/s
95th percentile per-packet one-way delay: 65.934 ms
Loss rate: 21.27%
-- Flow 1:
Average throughput: 59.65 Mbit/s
95th percentile per-packet one-way delay: 65.934 ms
Loss rate: 21.27%
```

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

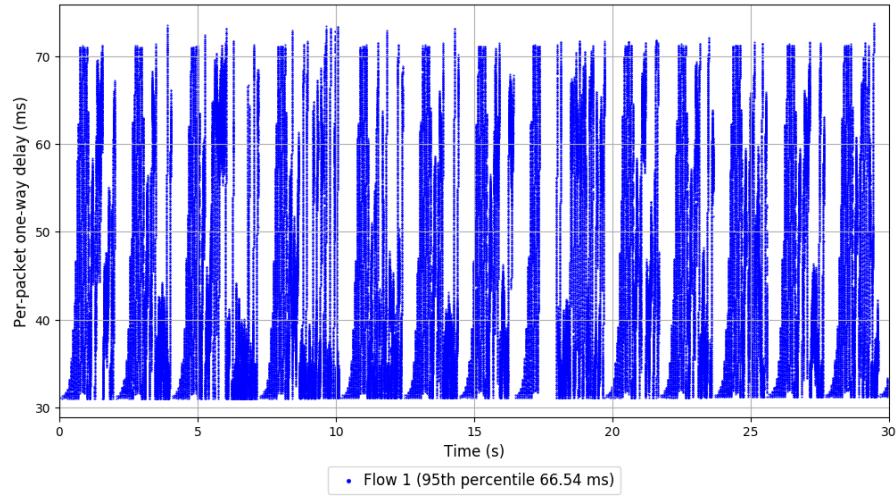
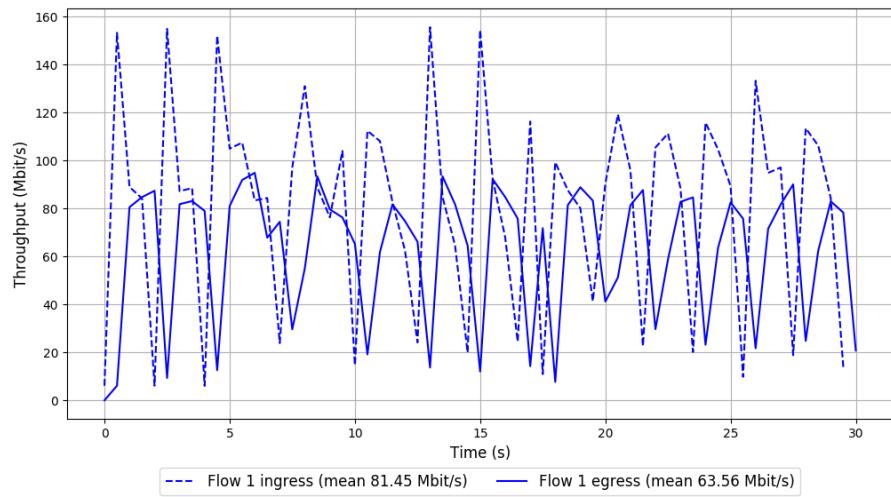


Run 4: Statistics of Verus

```
Start at: 2019-03-08 22:48:08
End at: 2019-03-08 22:48:38
Local clock offset: -2.829 ms
Remote clock offset: -1.156 ms

# Below is generated by plot.py at 2019-03-08 23:36:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.56 Mbit/s
95th percentile per-packet one-way delay: 66.539 ms
Loss rate: 21.95%
-- Flow 1:
Average throughput: 63.56 Mbit/s
95th percentile per-packet one-way delay: 66.539 ms
Loss rate: 21.95%
```

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

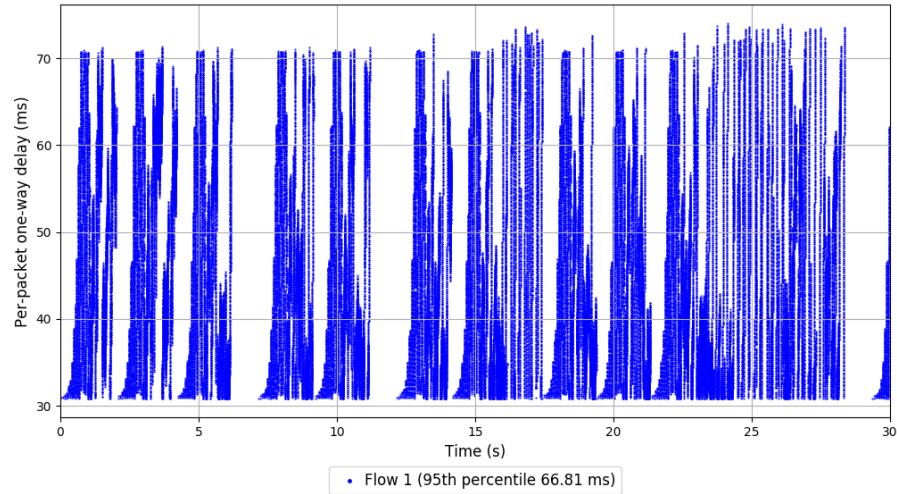
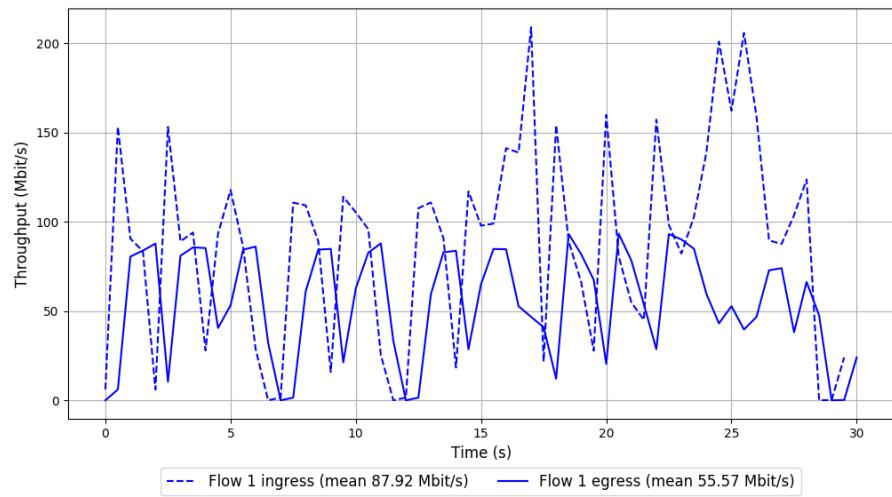


Run 5: Statistics of Verus

```
Start at: 2019-03-08 23:13:46
End at: 2019-03-08 23:14:16
Local clock offset: 1.848 ms
Remote clock offset: -1.128 ms

# Below is generated by plot.py at 2019-03-08 23:36:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.57 Mbit/s
95th percentile per-packet one-way delay: 66.805 ms
Loss rate: 36.73%
-- Flow 1:
Average throughput: 55.57 Mbit/s
95th percentile per-packet one-way delay: 66.805 ms
Loss rate: 36.73%
```

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

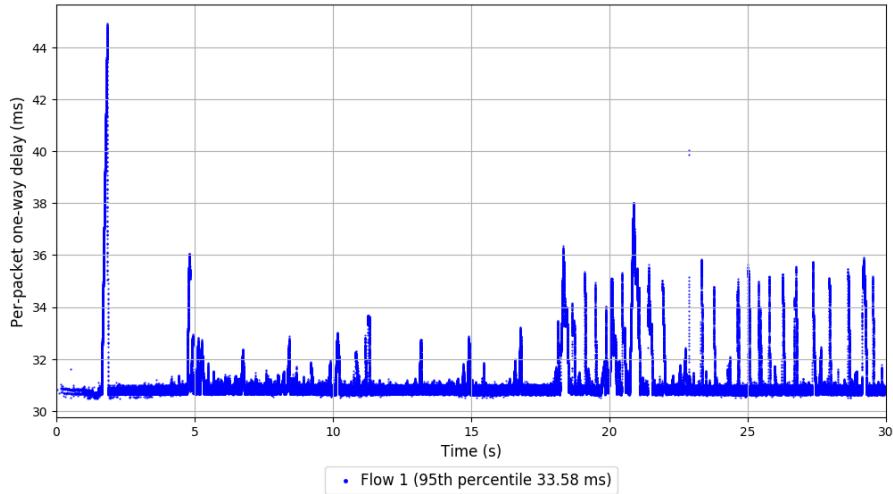
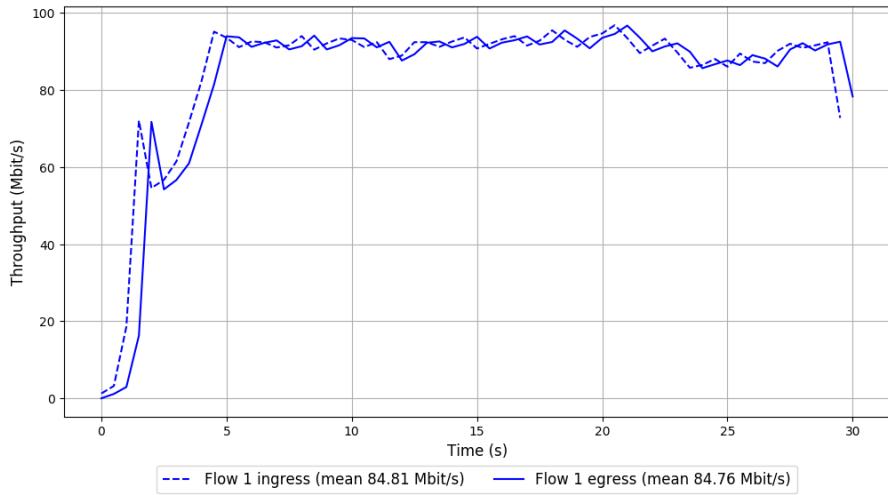


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-03-08 21:27:56
End at: 2019-03-08 21:28:26
Local clock offset: -0.333 ms
Remote clock offset: -3.236 ms

# Below is generated by plot.py at 2019-03-08 23:37:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.76 Mbit/s
95th percentile per-packet one-way delay: 33.582 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 84.76 Mbit/s
95th percentile per-packet one-way delay: 33.582 ms
Loss rate: 0.07%
```

Run 1: Report of PCC-Vivace — Data Link

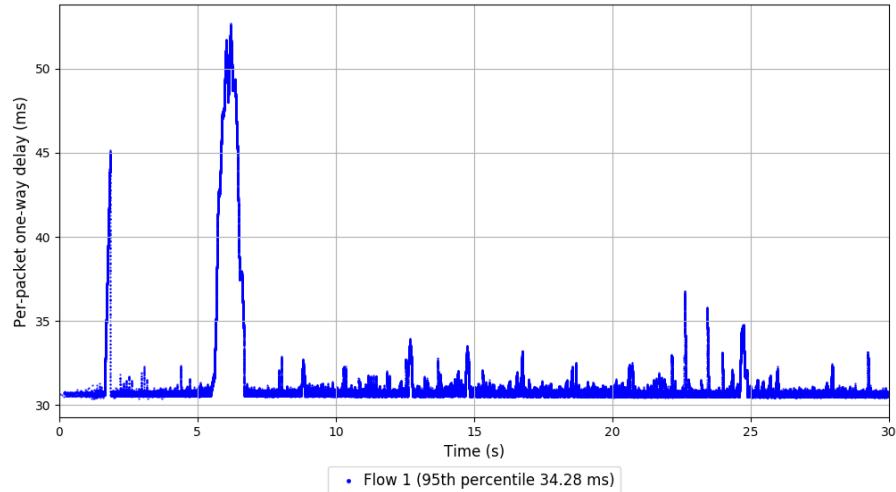
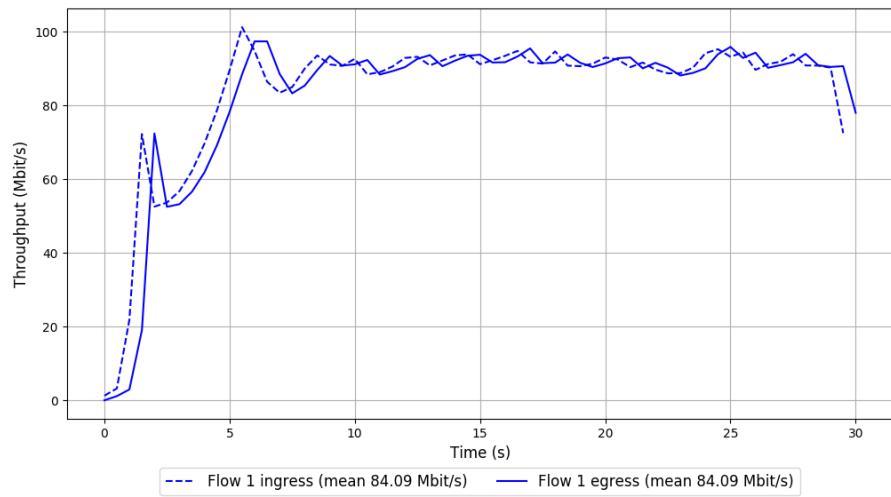


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-03-08 21:52:21
End at: 2019-03-08 21:52:51
Local clock offset: -1.932 ms
Remote clock offset: -2.638 ms

# Below is generated by plot.py at 2019-03-08 23:37:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.09 Mbit/s
95th percentile per-packet one-way delay: 34.284 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.09 Mbit/s
95th percentile per-packet one-way delay: 34.284 ms
Loss rate: 0.00%
```

Run 2: Report of PCC-Vivace — Data Link

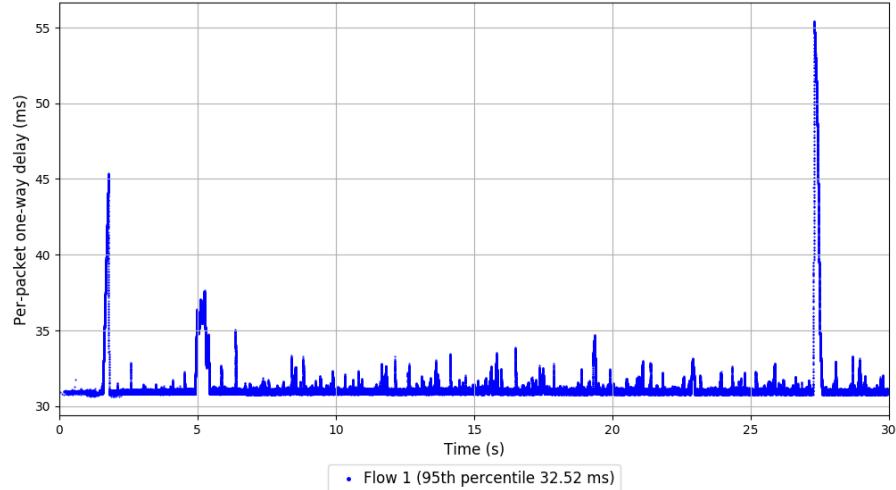
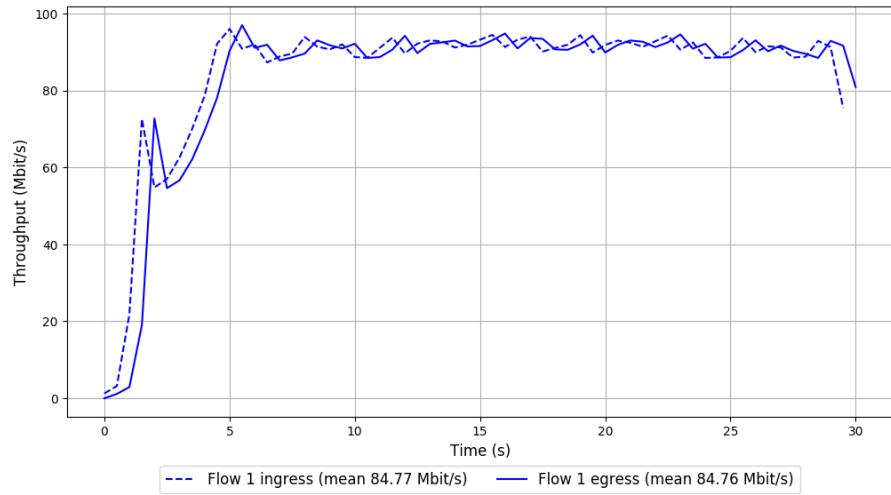


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-03-08 22:17:16
End at: 2019-03-08 22:17:46
Local clock offset: -3.612 ms
Remote clock offset: -1.792 ms

# Below is generated by plot.py at 2019-03-08 23:37:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.76 Mbit/s
95th percentile per-packet one-way delay: 32.522 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 84.76 Mbit/s
95th percentile per-packet one-way delay: 32.522 ms
Loss rate: 0.01%
```

Run 3: Report of PCC-Vivace — Data Link

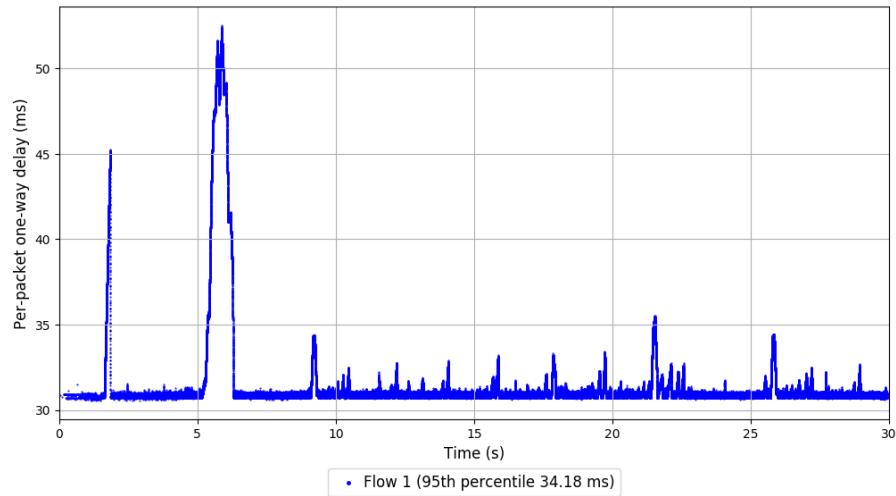
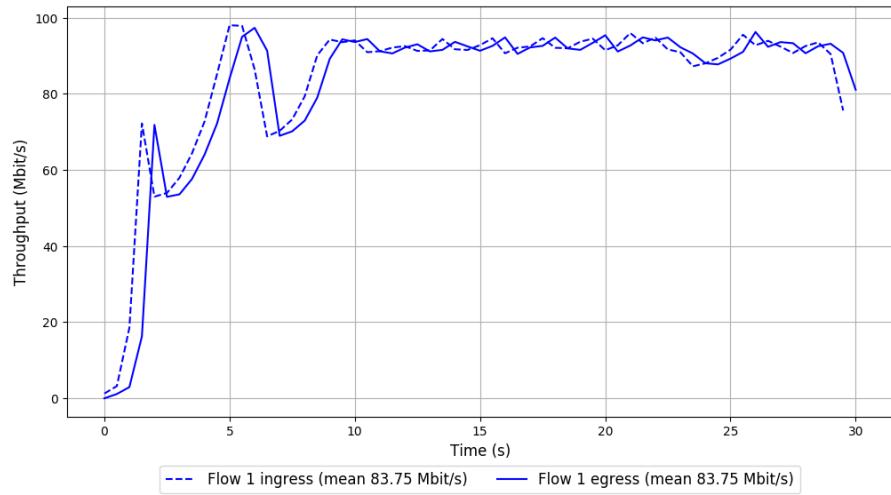


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-03-08 22:43:21
End at: 2019-03-08 22:43:51
Local clock offset: -4.885 ms
Remote clock offset: -1.26 ms

# Below is generated by plot.py at 2019-03-08 23:37:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.75 Mbit/s
95th percentile per-packet one-way delay: 34.182 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 83.75 Mbit/s
95th percentile per-packet one-way delay: 34.182 ms
Loss rate: 0.00%
```

Run 4: Report of PCC-Vivace — Data Link

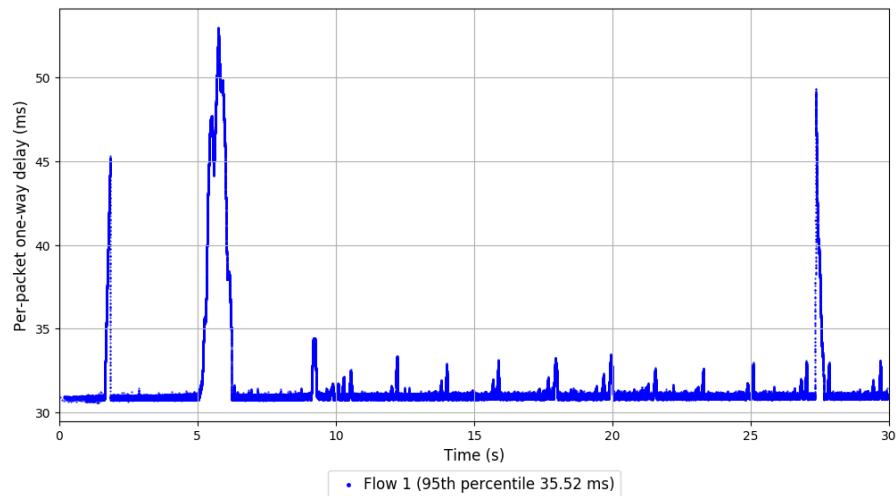
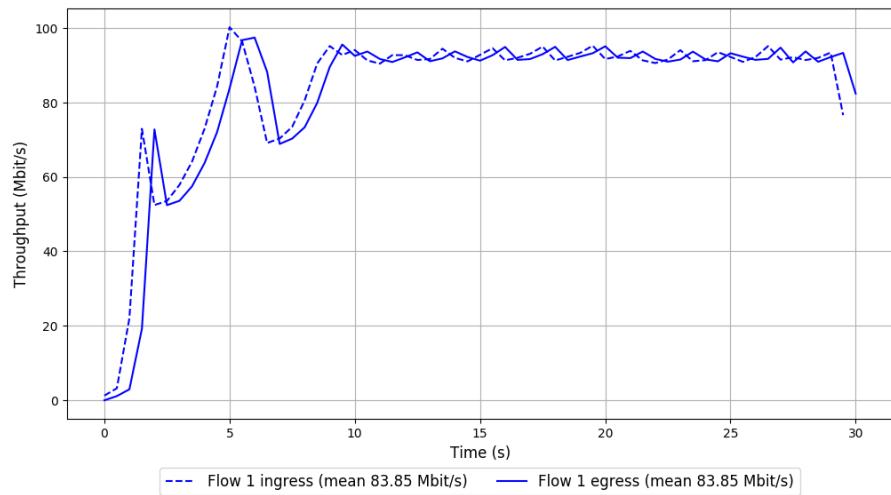


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-03-08 23:09:05
End at: 2019-03-08 23:09:35
Local clock offset: 1.476 ms
Remote clock offset: -1.221 ms

# Below is generated by plot.py at 2019-03-08 23:37:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.85 Mbit/s
95th percentile per-packet one-way delay: 35.521 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 83.85 Mbit/s
95th percentile per-packet one-way delay: 35.521 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Vivace — Data Link

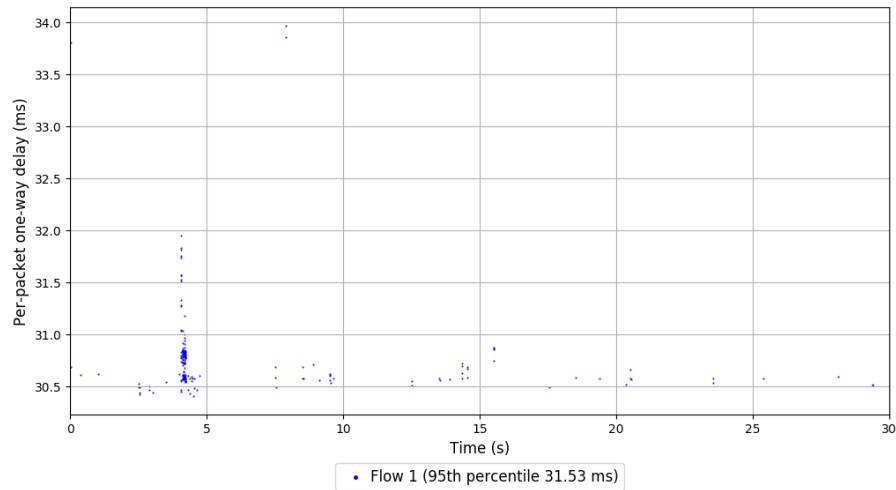
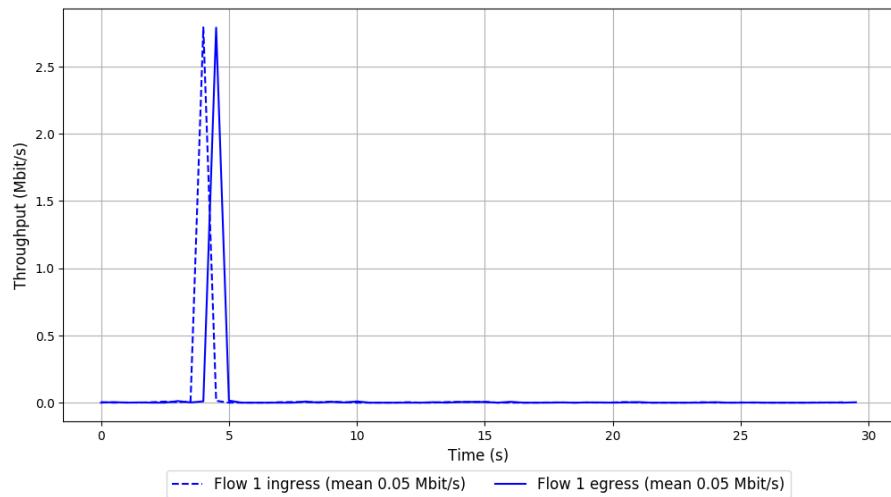


Run 1: Statistics of WebRTC media

```
Start at: 2019-03-08 21:34:52
End at: 2019-03-08 21:35:22
Local clock offset: -0.436 ms
Remote clock offset: -3.171 ms

# Below is generated by plot.py at 2019-03-08 23:37:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 31.526 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 31.526 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

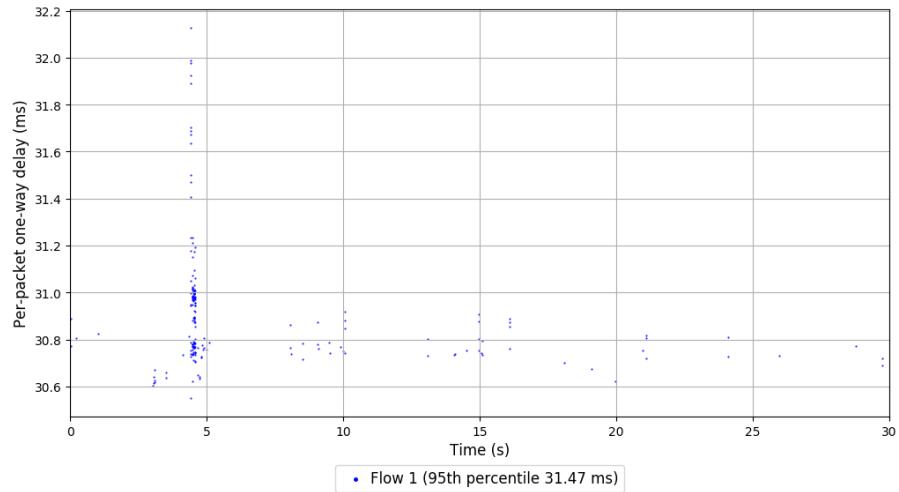
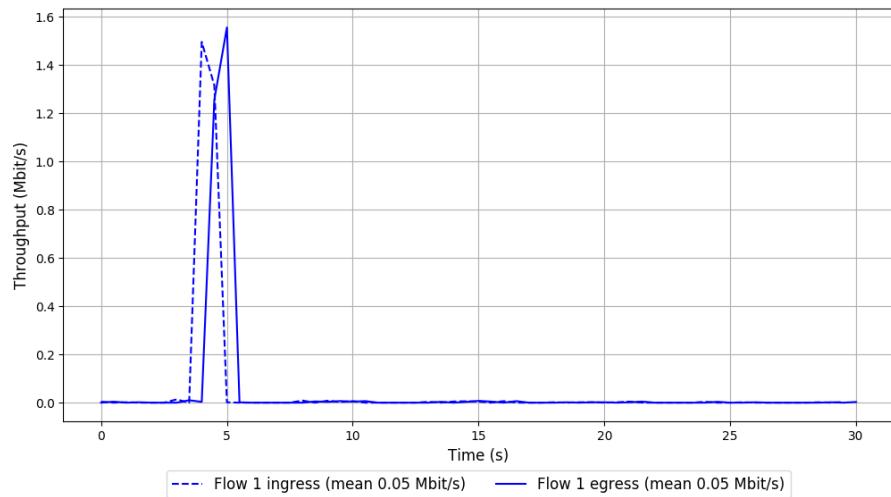


Run 2: Statistics of WebRTC media

```
Start at: 2019-03-08 21:59:18
End at: 2019-03-08 21:59:48
Local clock offset: -2.573 ms
Remote clock offset: -2.215 ms

# Below is generated by plot.py at 2019-03-08 23:37:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 31.470 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 31.470 ms
Loss rate: 0.00%
```

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

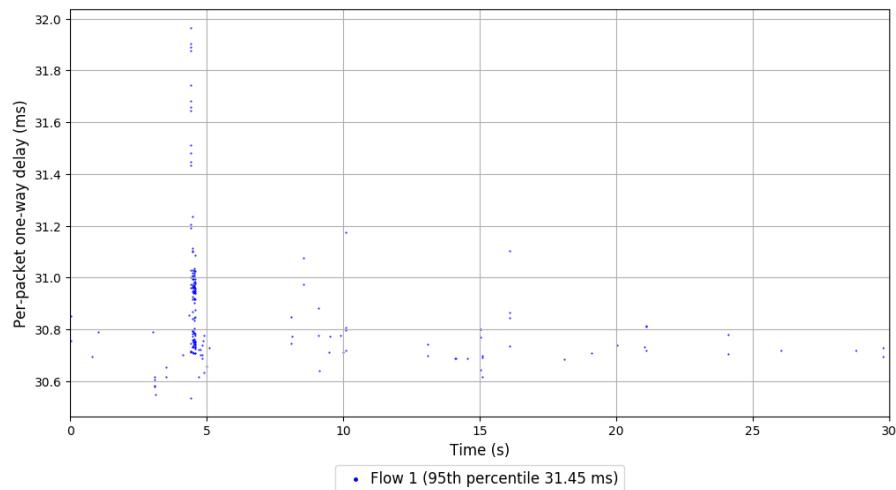
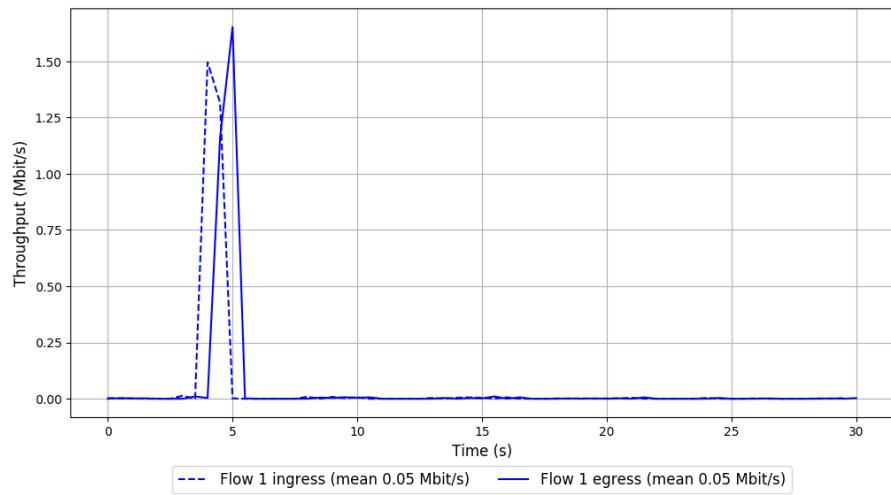


Run 3: Statistics of WebRTC media

```
Start at: 2019-03-08 22:24:31
End at: 2019-03-08 22:25:01
Local clock offset: -3.957 ms
Remote clock offset: -1.663 ms

# Below is generated by plot.py at 2019-03-08 23:37:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 31.449 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 31.449 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

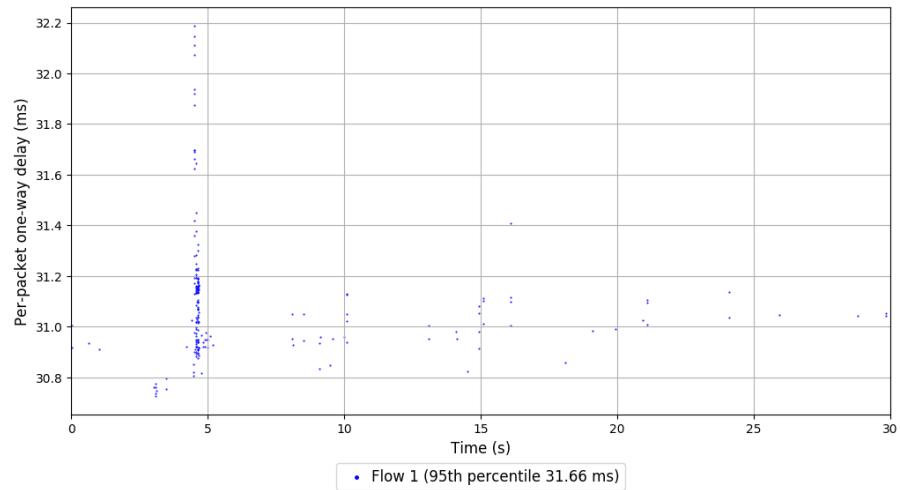
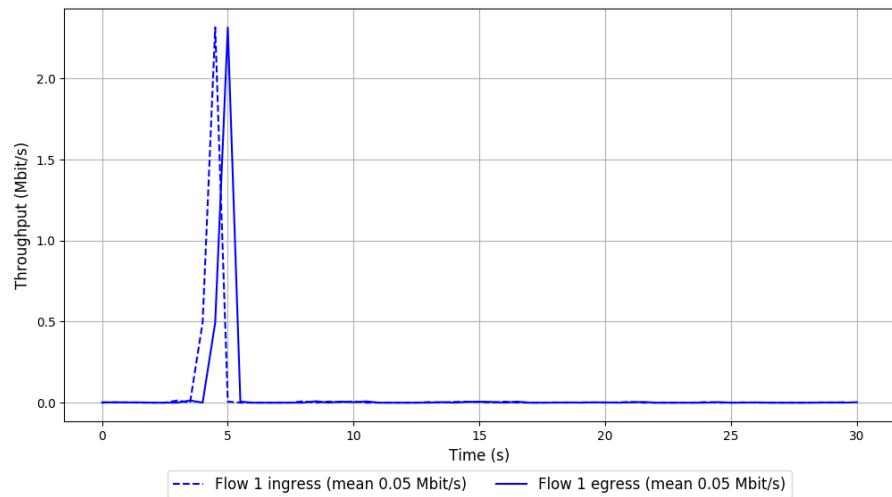


Run 4: Statistics of WebRTC media

```
Start at: 2019-03-08 22:50:38
End at: 2019-03-08 22:51:08
Local clock offset: -1.781 ms
Remote clock offset: -1.149 ms

# Below is generated by plot.py at 2019-03-08 23:37:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 31.664 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 31.664 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



```
Run 5: Statistics of WebRTC media

Start at: 2019-03-08 23:16:07
End at: 2019-03-08 23:16:37
Local clock offset: 1.685 ms
Remote clock offset: -1.354 ms

# Below is generated by plot.py at 2019-03-08 23:37:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 31.251 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 31.251 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

