

## Pantheon Report

Generated at 2019-03-26 23:13:25 (UTC).  
Data path: GCE London on `ens4` (*remote*) → GCE Tokyo on `ens4` (*local*).  
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.google.com` and have been applied to correct the timestamps in logs.

System info:

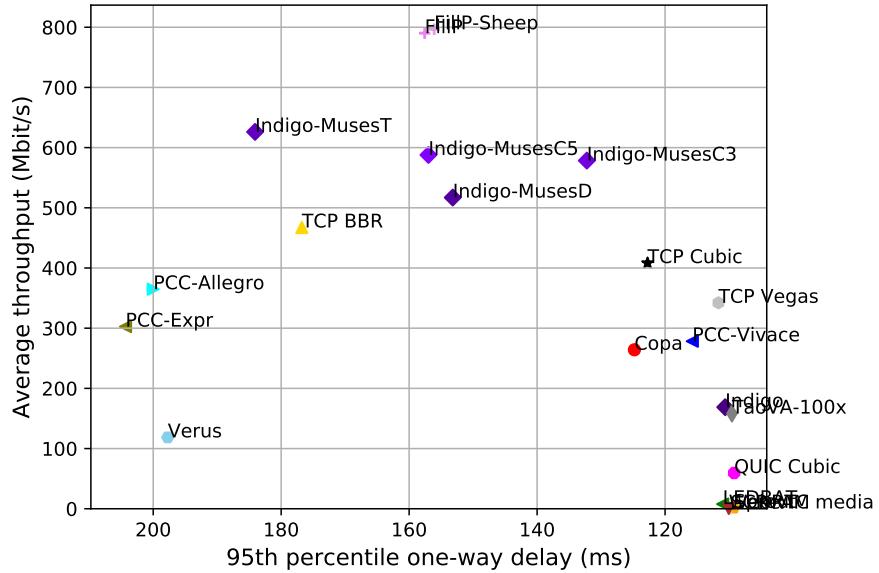
```
Linux 4.15.0-1028-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

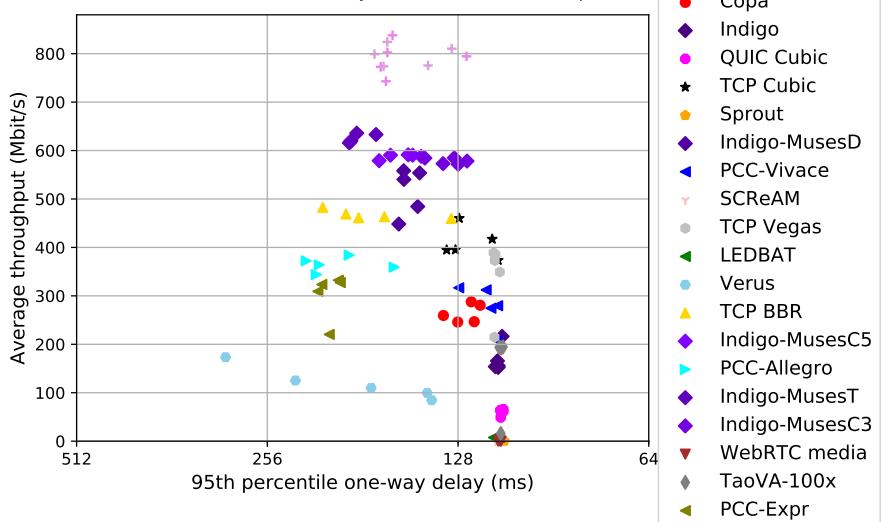
```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
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 GCE London to GCE Tokyo, 5 runs of 30s each per scheme  
(mean of all runs by scheme)



test from GCE London to GCE Tokyo, 5 runs of 30s each per scheme



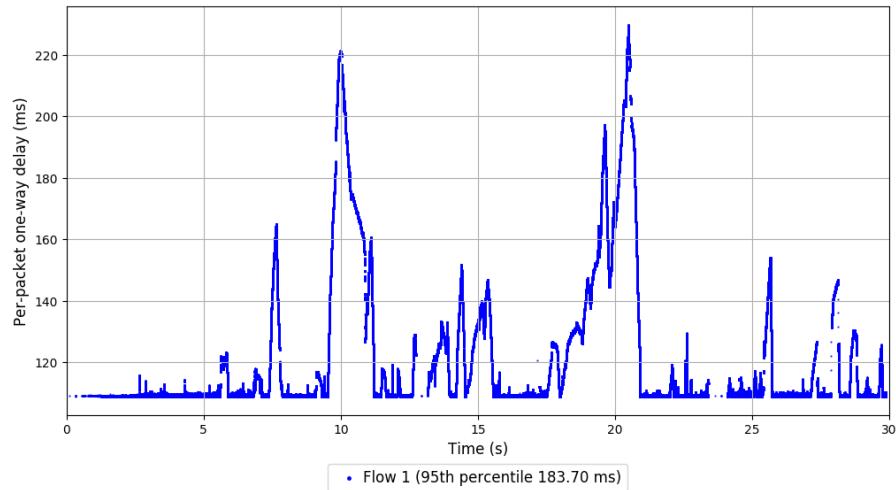
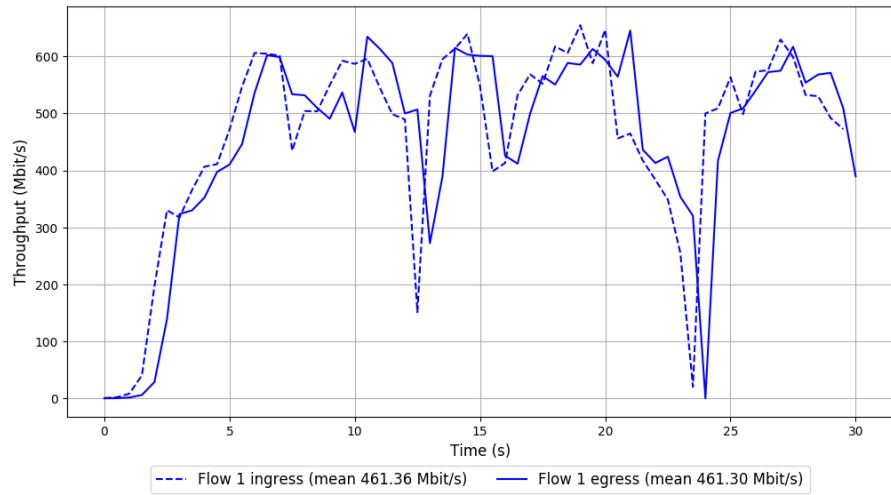
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	467.26	176.77	1.17
Copa	5	264.12	124.79	0.76
TCP Cubic	5	408.17	122.74	0.80
FillP	5	790.13	157.57	1.70
FillP-Sheep	5	796.57	156.09	1.56
Indigo	5	168.75	110.60	0.76
Indigo-MusesC3	5	578.42	132.23	0.90
Indigo-MusesC5	5	587.82	156.98	1.02
Indigo-MusesD	5	517.05	153.19	0.87
Indigo-MusesT	4	626.12	184.08	0.95
LEDBAT	5	7.72	111.00	1.47
PCC-Allegro	5	364.69	199.99	1.88
PCC-Expr	5	302.61	204.33	2.02
QUIC Cubic	5	59.39	109.20	1.17
SCReAM	5	0.22	109.77	0.69
Sprout	5	1.34	109.28	0.86
TaoVA-100x	5	158.09	109.55	0.70
TCP Vegas	5	342.14	111.66	0.78
Verus	5	118.56	197.73	4.89
PCC-Vivace	5	278.32	115.74	0.93
WebRTC media	4	0.51	110.05	0.30

Run 1: Statistics of TCP BBR

```
Start at: 2019-03-26 19:10:47
End at: 2019-03-26 19:11:17
Local clock offset: 14.111 ms
Remote clock offset: 15.468 ms

# Below is generated by plot.py at 2019-03-26 21:46:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 461.30 Mbit/s
95th percentile per-packet one-way delay: 183.700 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 461.30 Mbit/s
95th percentile per-packet one-way delay: 183.700 ms
Loss rate: 0.74%
```

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

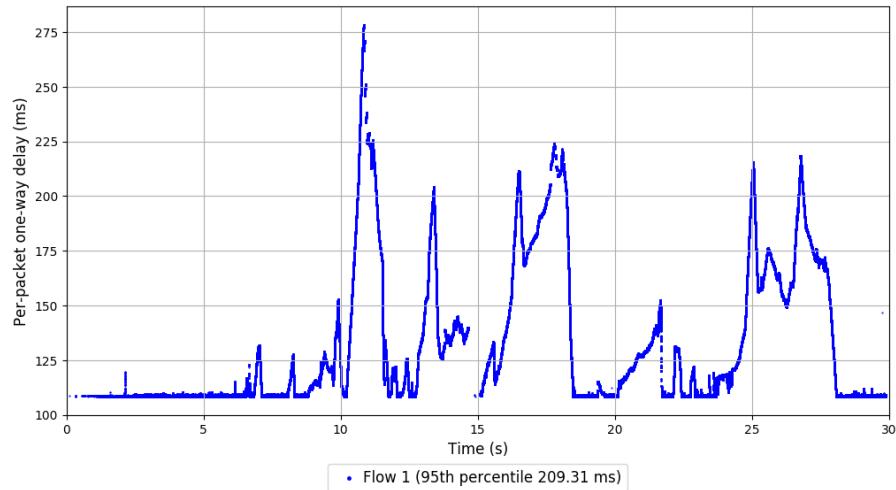
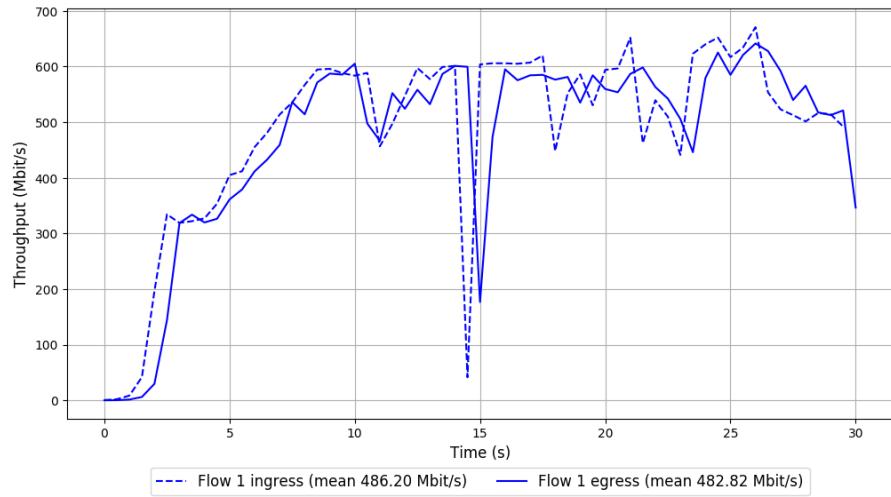


Run 2: Statistics of TCP BBR

```
Start at: 2019-03-26 19:43:21
End at: 2019-03-26 19:43:51
Local clock offset: 28.263 ms
Remote clock offset: 29.646 ms

# Below is generated by plot.py at 2019-03-26 21:47:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 482.82 Mbit/s
95th percentile per-packet one-way delay: 209.308 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 482.82 Mbit/s
95th percentile per-packet one-way delay: 209.308 ms
Loss rate: 1.42%
```

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

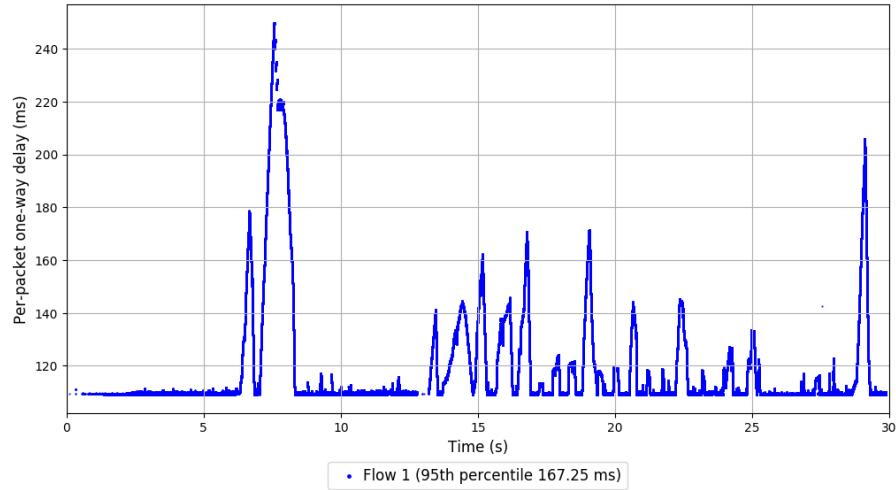
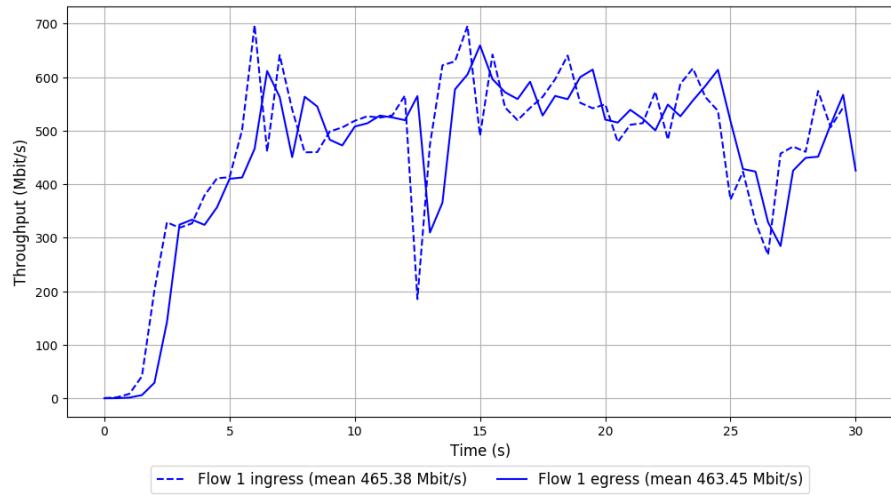


Run 3: Statistics of TCP BBR

```
Start at: 2019-03-26 20:15:36
End at: 2019-03-26 20:16:06
Local clock offset: 8.785 ms
Remote clock offset: 9.248 ms

# Below is generated by plot.py at 2019-03-26 21:47:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 463.45 Mbit/s
95th percentile per-packet one-way delay: 167.245 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 463.45 Mbit/s
95th percentile per-packet one-way delay: 167.245 ms
Loss rate: 1.14%
```

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

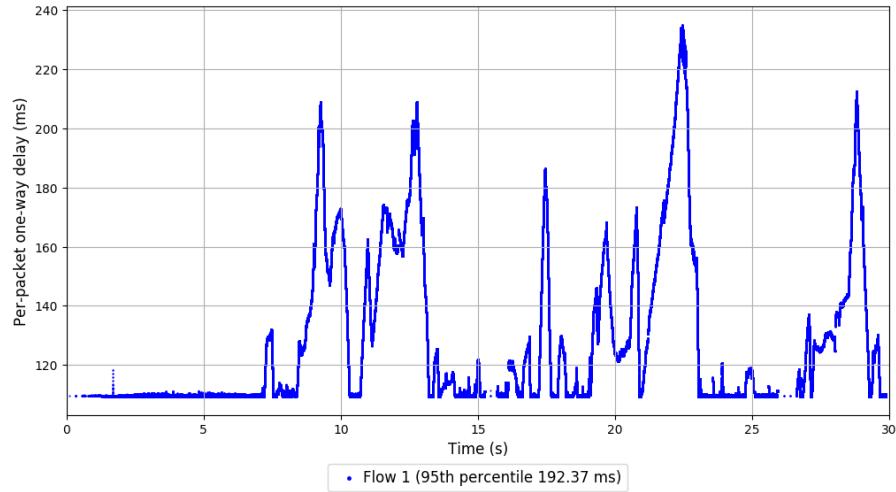
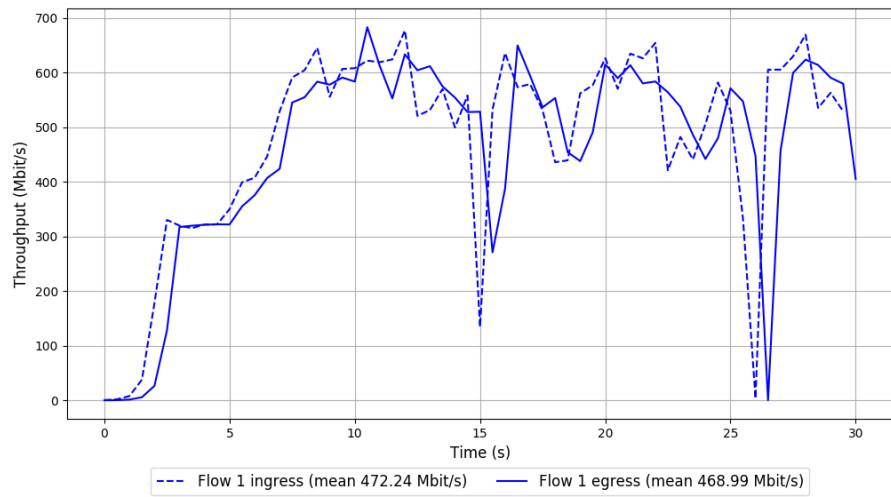


Run 4: Statistics of TCP BBR

```
Start at: 2019-03-26 20:48:04
End at: 2019-03-26 20:48:35
Local clock offset: 3.416 ms
Remote clock offset: 3.629 ms

# Below is generated by plot.py at 2019-03-26 21:47:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 468.99 Mbit/s
95th percentile per-packet one-way delay: 192.372 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 468.99 Mbit/s
95th percentile per-packet one-way delay: 192.372 ms
Loss rate: 1.41%
```

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

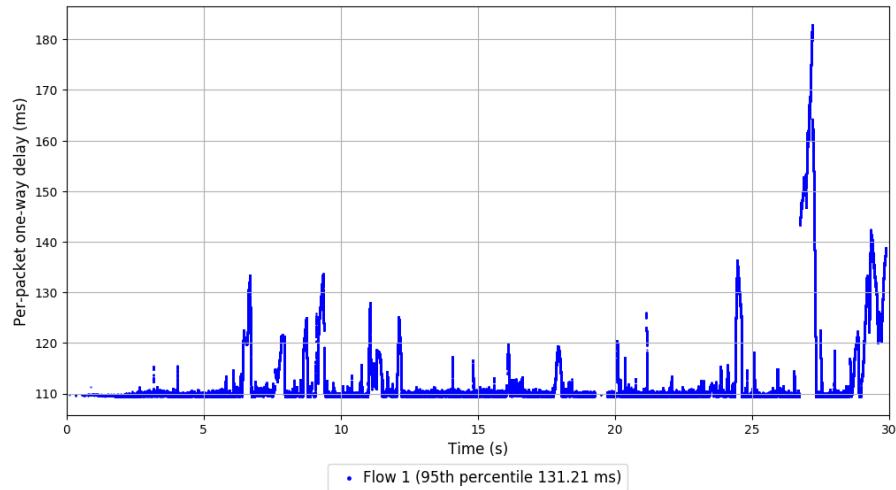
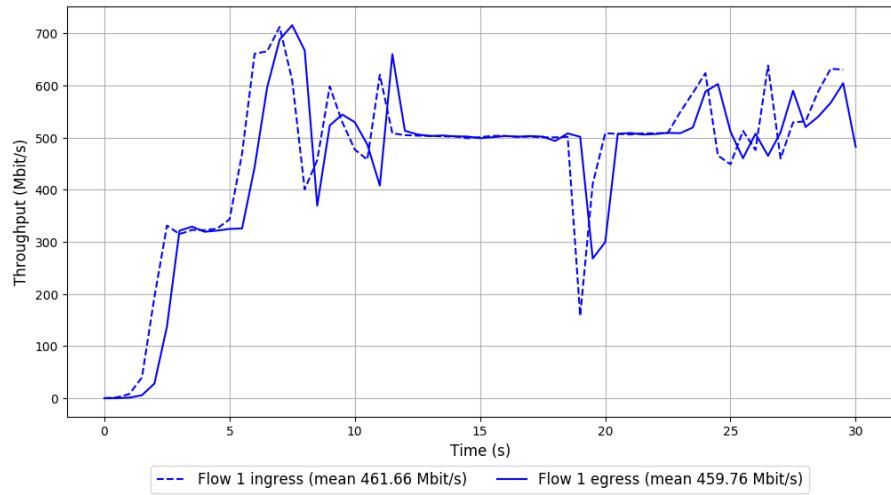


Run 5: Statistics of TCP BBR

```
Start at: 2019-03-26 21:20:32
End at: 2019-03-26 21:21:02
Local clock offset: 1.329 ms
Remote clock offset: 1.557 ms

# Below is generated by plot.py at 2019-03-26 21:47:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 459.76 Mbit/s
95th percentile per-packet one-way delay: 131.209 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 459.76 Mbit/s
95th percentile per-packet one-way delay: 131.209 ms
Loss rate: 1.14%
```

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

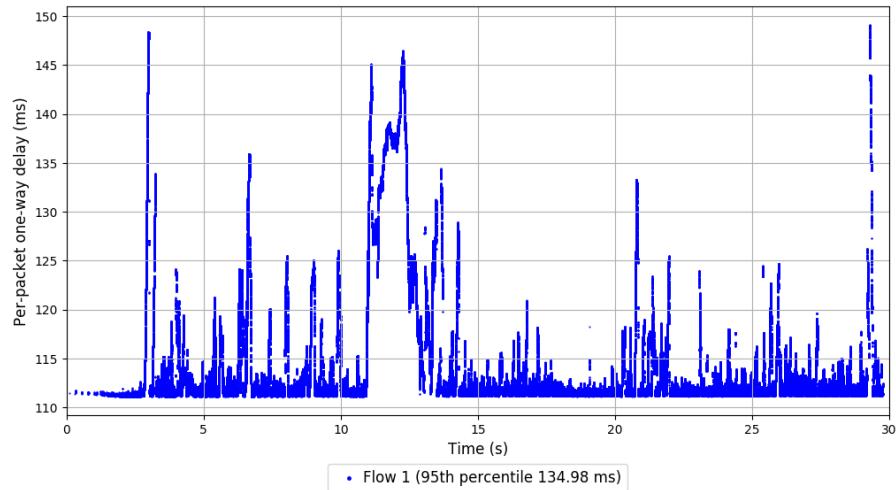
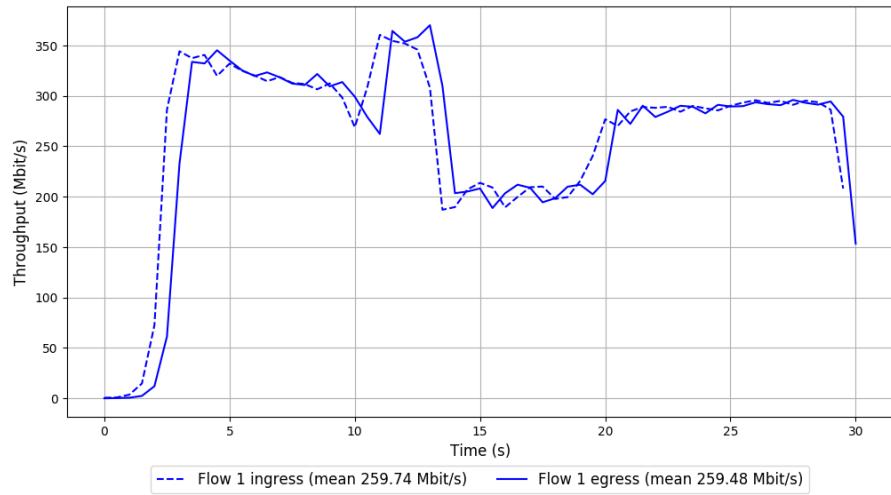


Run 1: Statistics of Copa

```
Start at: 2019-03-26 18:51:52
End at: 2019-03-26 18:52:22
Local clock offset: 6.756 ms
Remote clock offset: 7.062 ms

# Below is generated by plot.py at 2019-03-26 21:47:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 259.48 Mbit/s
95th percentile per-packet one-way delay: 134.980 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 259.48 Mbit/s
95th percentile per-packet one-way delay: 134.980 ms
Loss rate: 0.84%
```

## Run 1: Report of Copa — Data Link

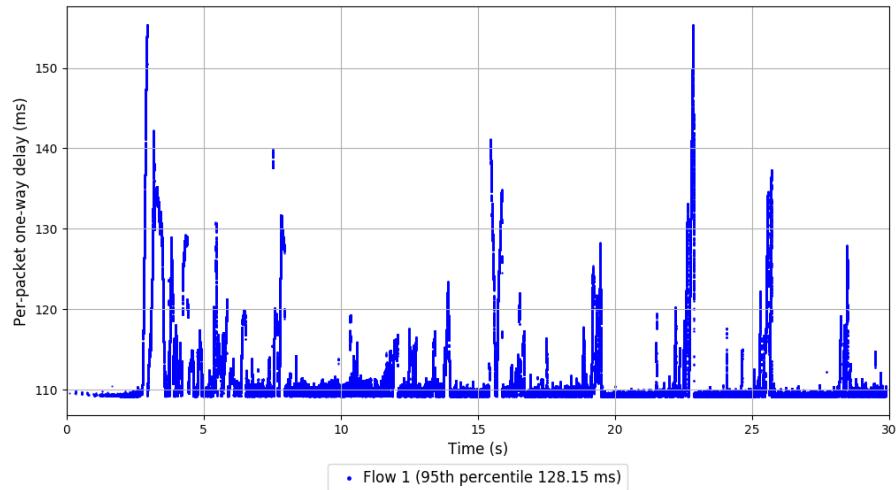
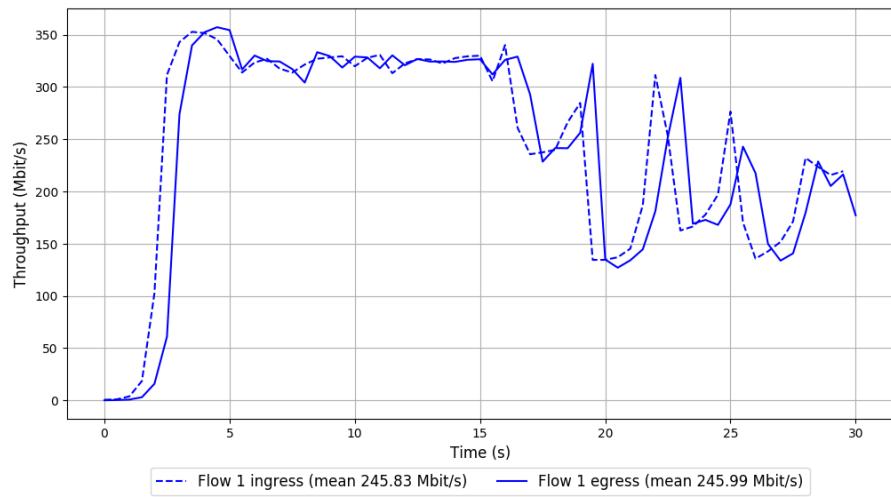


Run 2: Statistics of Copa

```
Start at: 2019-03-26 19:23:28
End at: 2019-03-26 19:23:58
Local clock offset: 20.712 ms
Remote clock offset: 21.633 ms

# Below is generated by plot.py at 2019-03-26 21:47:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 245.99 Mbit/s
95th percentile per-packet one-way delay: 128.151 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 245.99 Mbit/s
95th percentile per-packet one-way delay: 128.151 ms
Loss rate: 0.66%
```

## Run 2: Report of Copa — Data Link

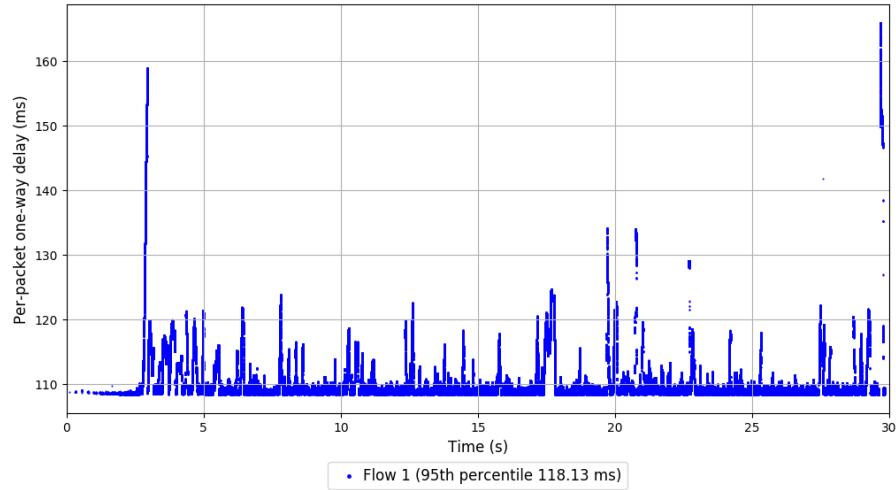
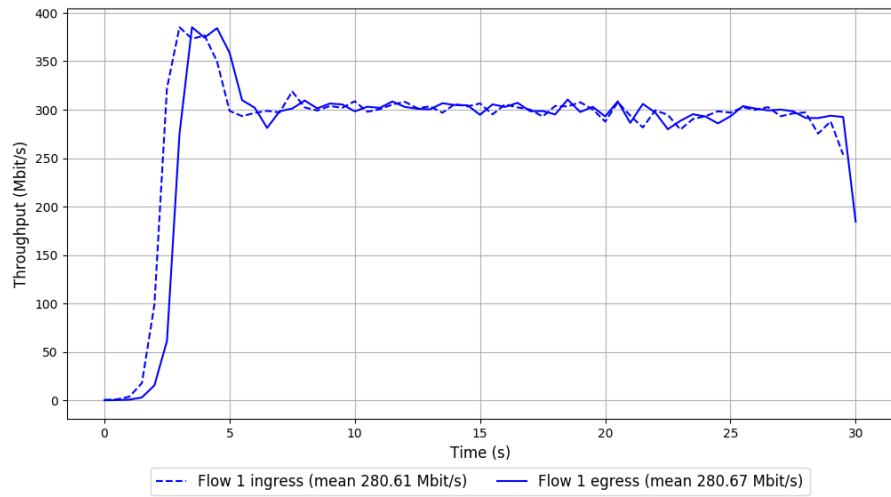


Run 3: Statistics of Copa

```
Start at: 2019-03-26 19:56:44
End at: 2019-03-26 19:57:14
Local clock offset: 28.346 ms
Remote clock offset: 29.508 ms

# Below is generated by plot.py at 2019-03-26 21:47:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 280.67 Mbit/s
95th percentile per-packet one-way delay: 118.132 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 280.67 Mbit/s
95th percentile per-packet one-way delay: 118.132 ms
Loss rate: 0.71%
```

### Run 3: Report of Copa — Data Link

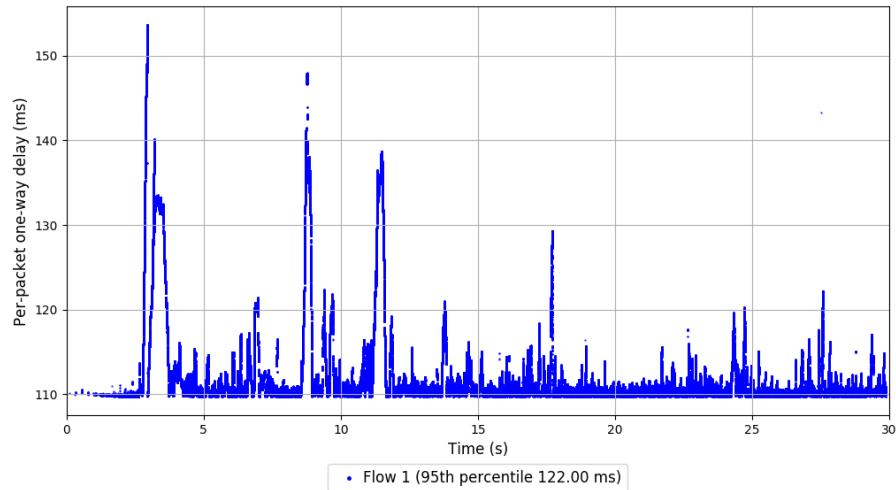
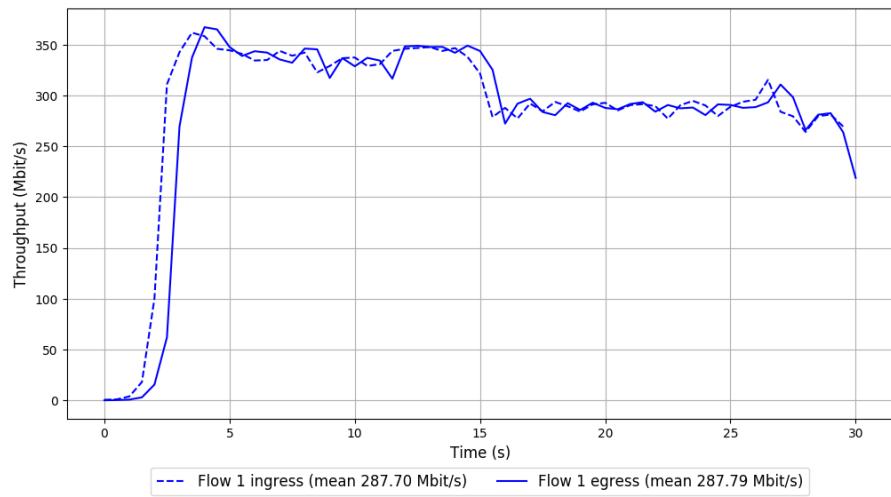


Run 4: Statistics of Copa

```
Start at: 2019-03-26 20:28:26
End at: 2019-03-26 20:28:56
Local clock offset: 9.585 ms
Remote clock offset: 9.661 ms

# Below is generated by plot.py at 2019-03-26 21:55:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 287.79 Mbit/s
95th percentile per-packet one-way delay: 122.002 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 287.79 Mbit/s
95th percentile per-packet one-way delay: 122.002 ms
Loss rate: 0.70%
```

Run 4: Report of Copa — Data Link

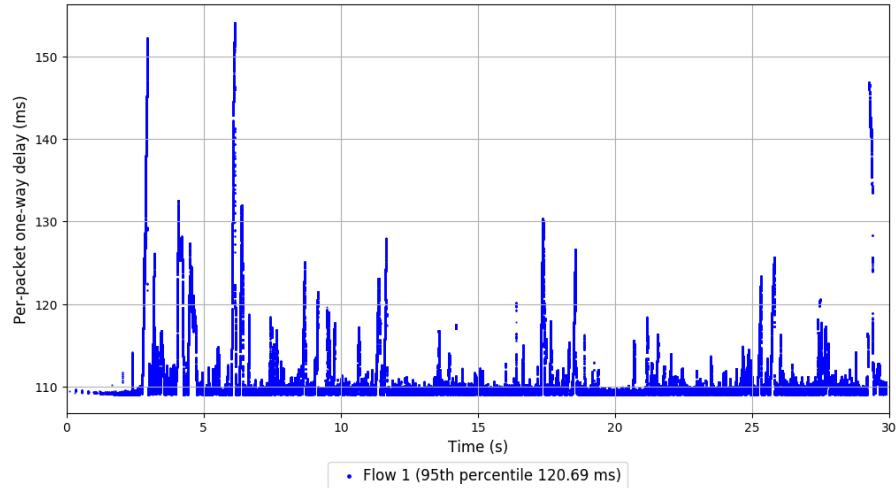
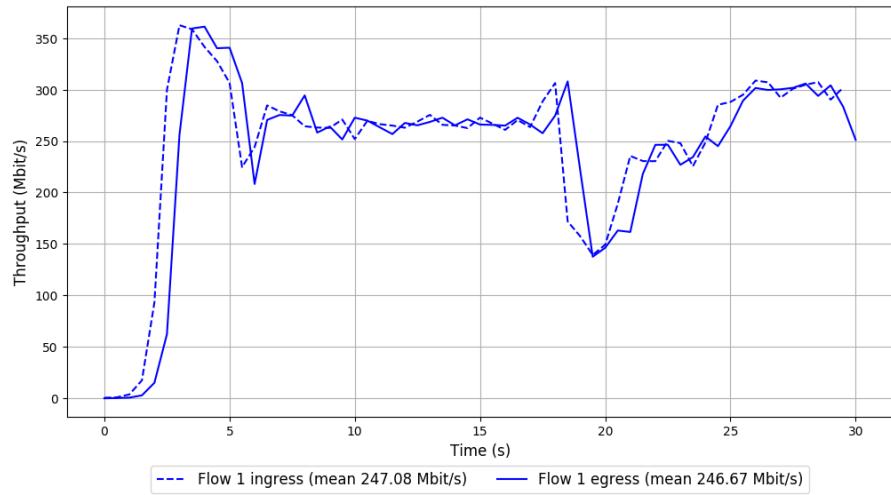


Run 5: Statistics of Copa

```
Start at: 2019-03-26 21:01:36
End at: 2019-03-26 21:02:06
Local clock offset: 4.321 ms
Remote clock offset: 4.631 ms

# Below is generated by plot.py at 2019-03-26 21:55:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 246.67 Mbit/s
95th percentile per-packet one-way delay: 120.685 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 246.67 Mbit/s
95th percentile per-packet one-way delay: 120.685 ms
Loss rate: 0.89%
```

### Run 5: Report of Copa — Data Link

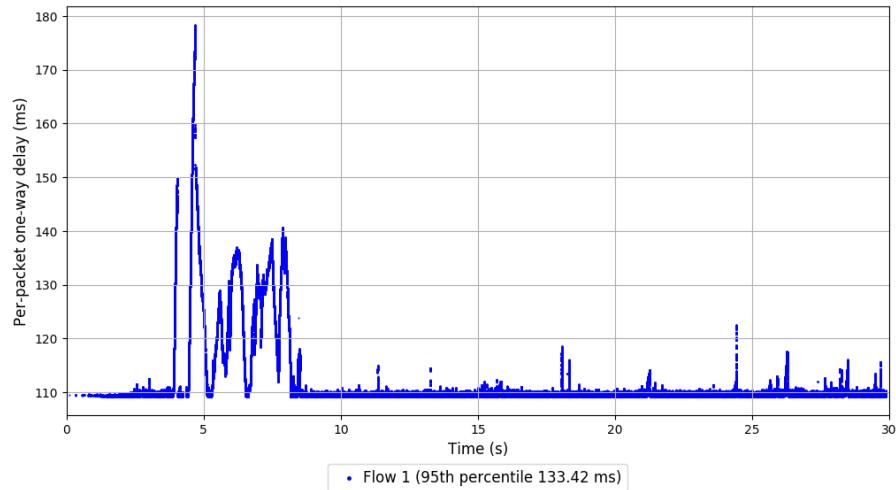
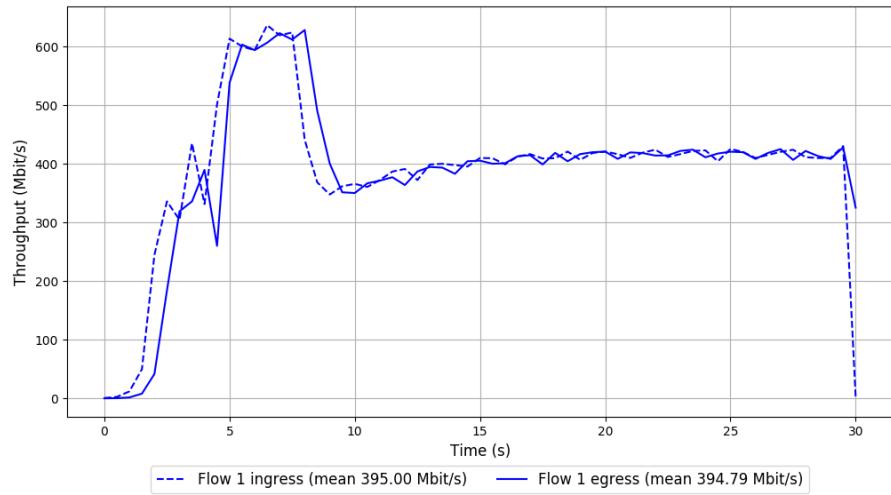


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-03-26 19:09:15
End at: 2019-03-26 19:09:45
Local clock offset: 13.518 ms
Remote clock offset: 14.272 ms

# Below is generated by plot.py at 2019-03-26 21:55:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 394.79 Mbit/s
95th percentile per-packet one-way delay: 133.417 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 394.79 Mbit/s
95th percentile per-packet one-way delay: 133.417 ms
Loss rate: 0.78%
```

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

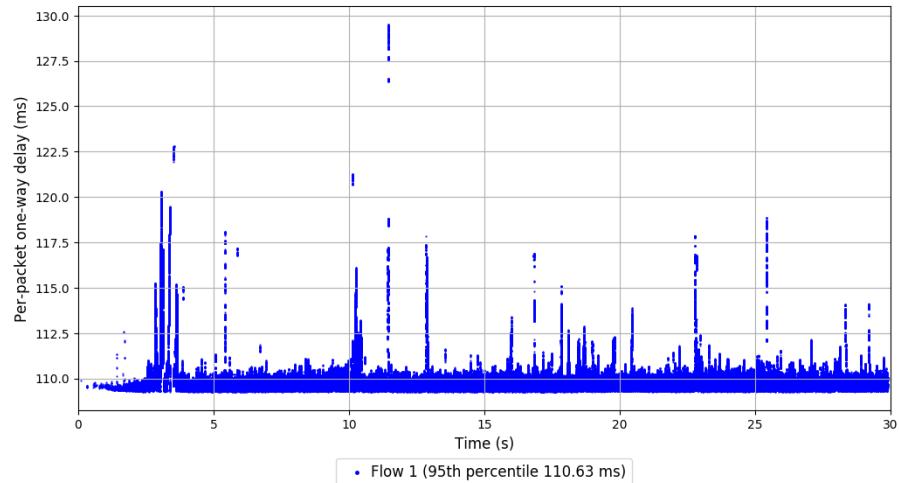
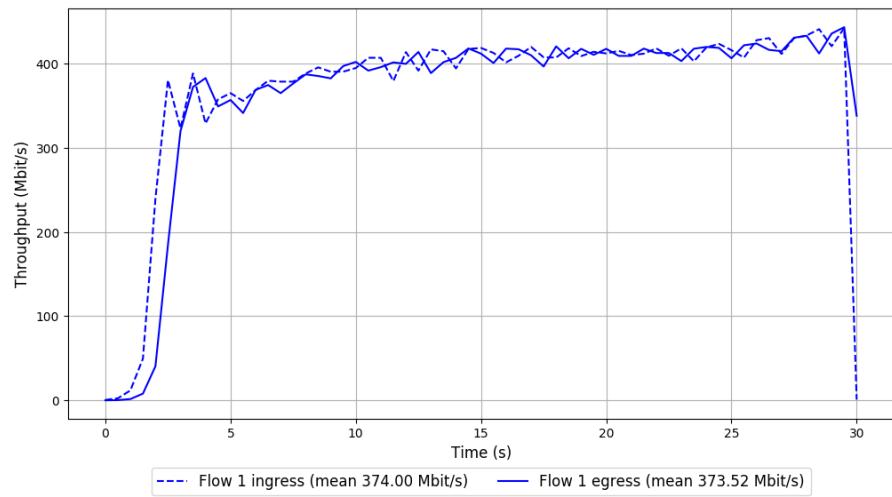


```
Run 2: Statistics of TCP Cubic
```

```
Start at: 2019-03-26 19:41:51
End at: 2019-03-26 19:42:21
Local clock offset: 27.07 ms
Remote clock offset: 28.183 ms

# Below is generated by plot.py at 2019-03-26 21:55:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 373.52 Mbit/s
95th percentile per-packet one-way delay: 110.626 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 373.52 Mbit/s
95th percentile per-packet one-way delay: 110.626 ms
Loss rate: 0.86%
```

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

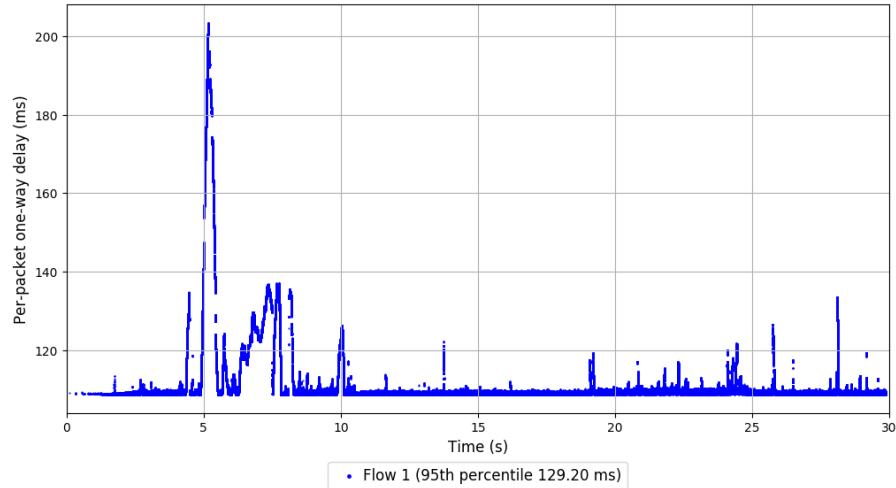
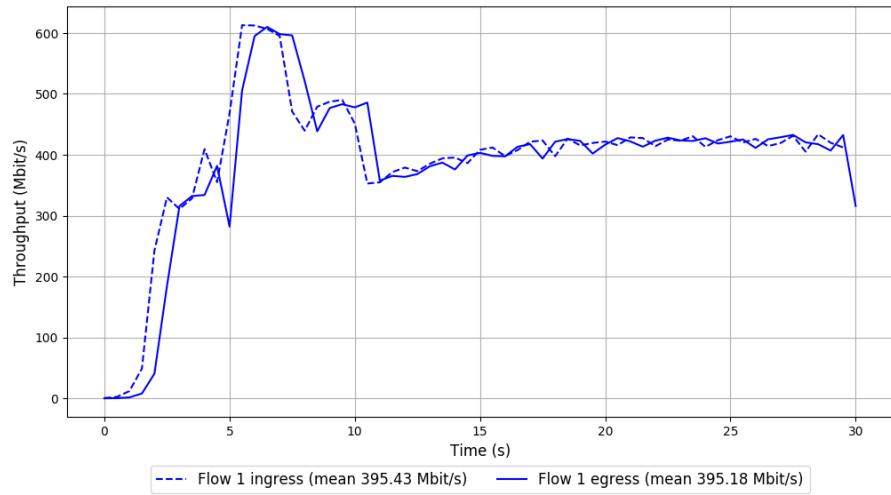


Run 3: Statistics of TCP Cubic

```
Start at: 2019-03-26 20:14:04
End at: 2019-03-26 20:14:34
Local clock offset: 8.358 ms
Remote clock offset: 9.39 ms

# Below is generated by plot.py at 2019-03-26 21:55:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 395.18 Mbit/s
95th percentile per-packet one-way delay: 129.197 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 395.18 Mbit/s
95th percentile per-packet one-way delay: 129.197 ms
Loss rate: 0.80%
```

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

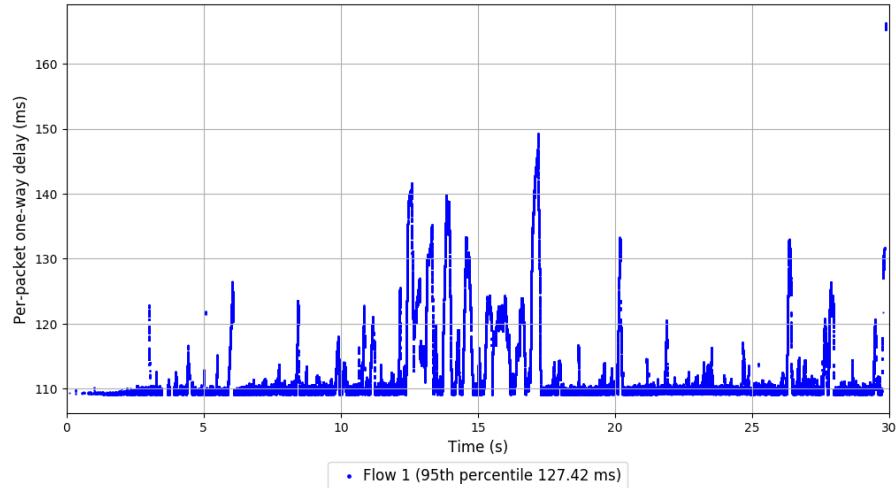
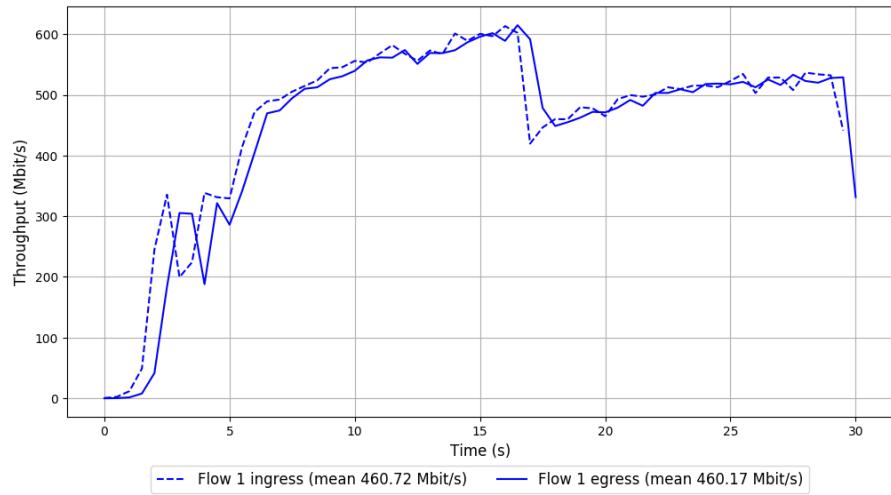


Run 4: Statistics of TCP Cubic

```
Start at: 2019-03-26 20:46:28
End at: 2019-03-26 20:46:58
Local clock offset: 3.339 ms
Remote clock offset: 3.628 ms

# Below is generated by plot.py at 2019-03-26 21:55:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 460.17 Mbit/s
95th percentile per-packet one-way delay: 127.417 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 460.17 Mbit/s
95th percentile per-packet one-way delay: 127.417 ms
Loss rate: 0.85%
```

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

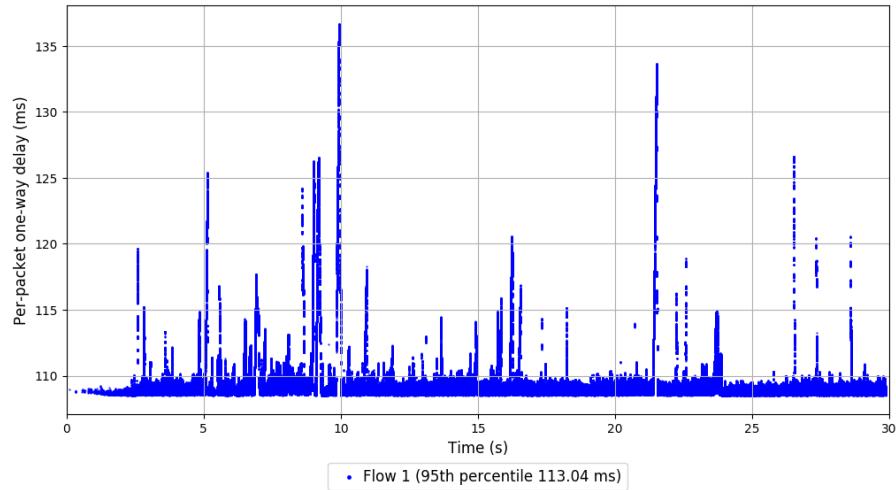
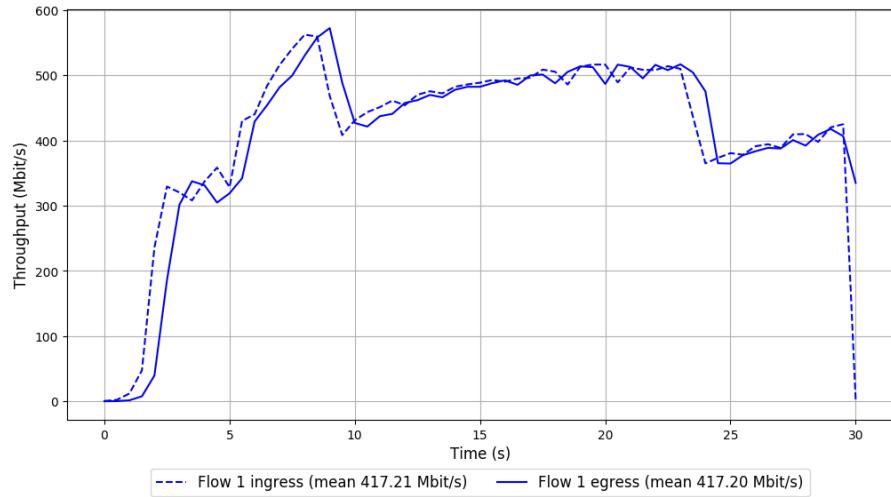


Run 5: Statistics of TCP Cubic

```
Start at: 2019-03-26 21:19:00
End at: 2019-03-26 21:19:30
Local clock offset: 1.506 ms
Remote clock offset: 1.58 ms

# Below is generated by plot.py at 2019-03-26 21:55:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 417.20 Mbit/s
95th percentile per-packet one-way delay: 113.043 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 417.20 Mbit/s
95th percentile per-packet one-way delay: 113.043 ms
Loss rate: 0.73%
```

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

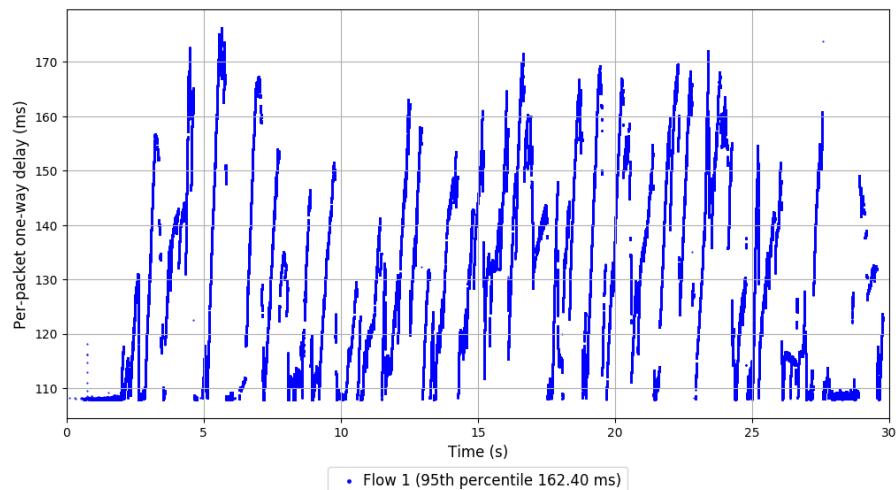
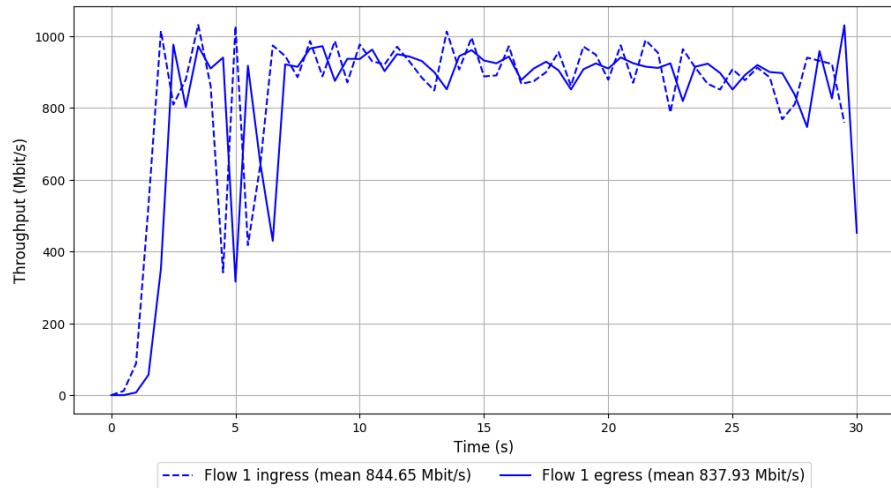


```
Run 1: Statistics of FillP

Start at: 2019-03-26 19:01:49
End at: 2019-03-26 19:02:19
Local clock offset: 15.248 ms
Remote clock offset: 16.64 ms

# Below is generated by plot.py at 2019-03-26 22:05:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 837.93 Mbit/s
95th percentile per-packet one-way delay: 162.395 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 837.93 Mbit/s
95th percentile per-packet one-way delay: 162.395 ms
Loss rate: 1.52%
```

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

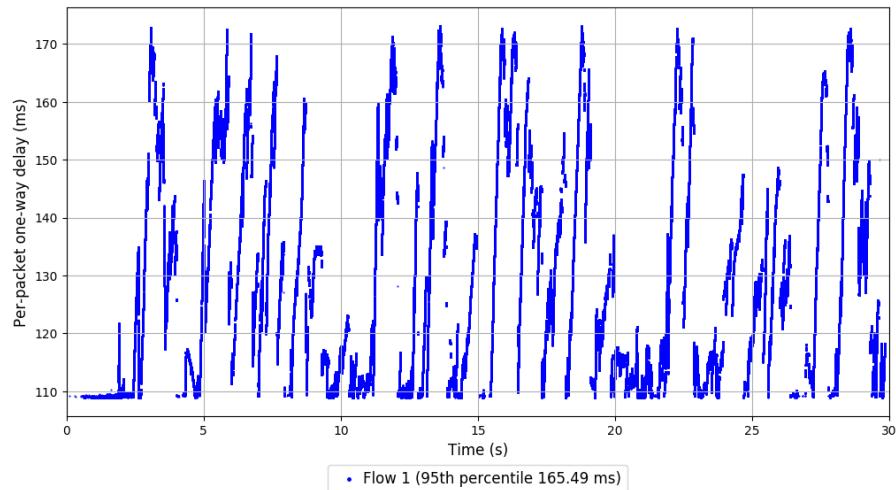
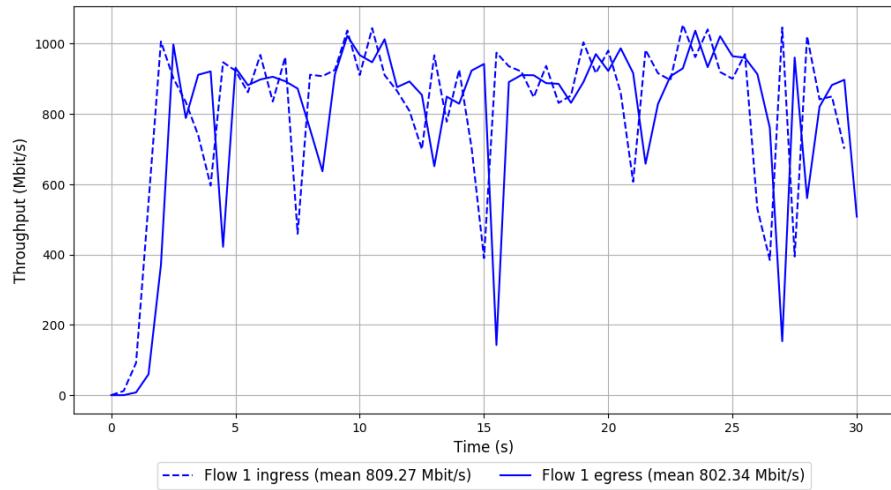


```
Run 2: Statistics of FillP
```

```
Start at: 2019-03-26 19:34:07
End at: 2019-03-26 19:34:37
Local clock offset: 20.786 ms
Remote clock offset: 22.028 ms

# Below is generated by plot.py at 2019-03-26 22:10:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 802.34 Mbit/s
95th percentile per-packet one-way delay: 165.485 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 802.34 Mbit/s
95th percentile per-packet one-way delay: 165.485 ms
Loss rate: 1.58%
```

## Run 2: Report of FillP — Data Link

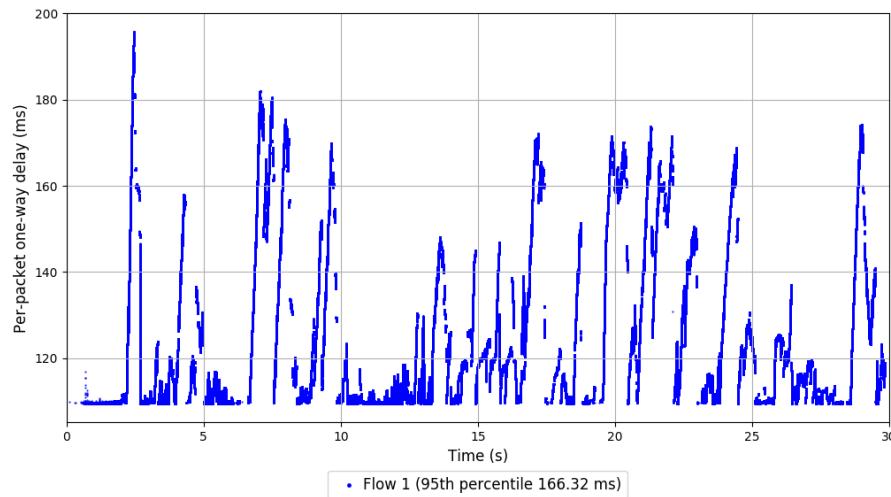
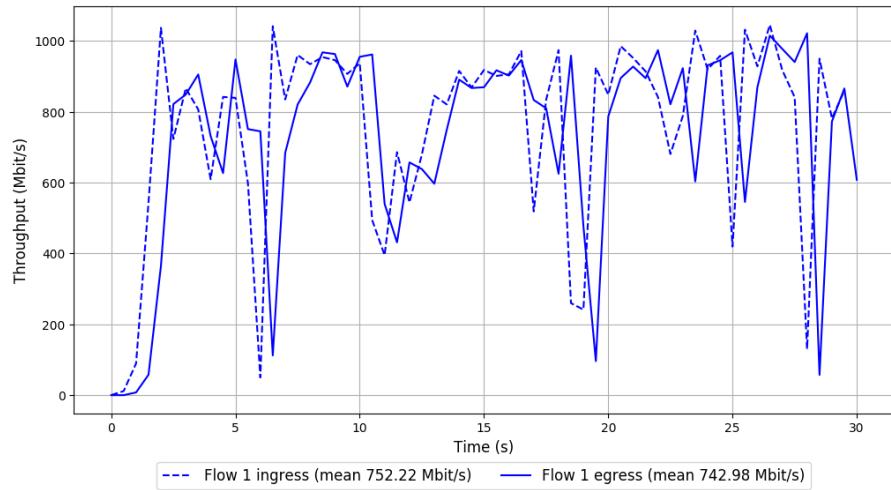


```
Run 3: Statistics of FillP
```

```
Start at: 2019-03-26 20:06:43
End at: 2019-03-26 20:07:13
Local clock offset: 12.225 ms
Remote clock offset: 12.362 ms

# Below is generated by plot.py at 2019-03-26 22:10:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 742.98 Mbit/s
95th percentile per-packet one-way delay: 166.323 ms
Loss rate: 1.95%
-- Flow 1:
Average throughput: 742.98 Mbit/s
95th percentile per-packet one-way delay: 166.323 ms
Loss rate: 1.95%
```

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

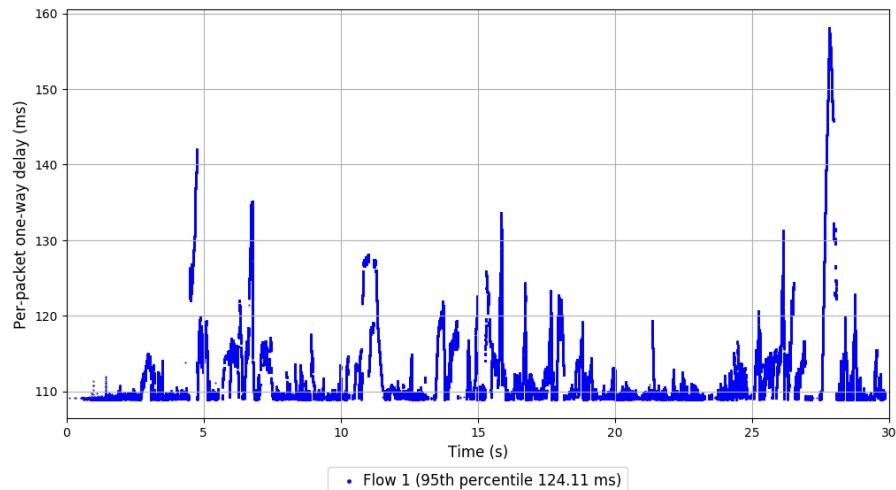
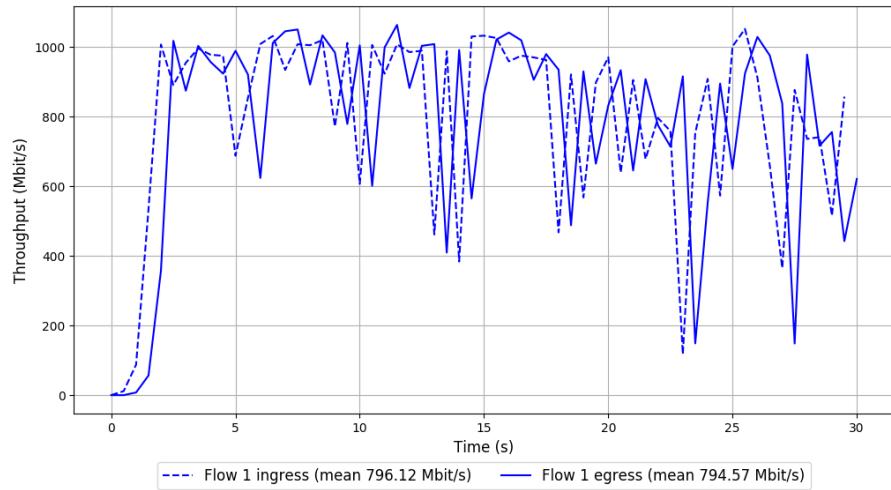


Run 4: Statistics of FillP

```
Start at: 2019-03-26 20:38:47
End at: 2019-03-26 20:39:17
Local clock offset: 3.594 ms
Remote clock offset: 4.315 ms

# Below is generated by plot.py at 2019-03-26 22:11:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 794.57 Mbit/s
95th percentile per-packet one-way delay: 124.109 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 794.57 Mbit/s
95th percentile per-packet one-way delay: 124.109 ms
Loss rate: 0.93%
```

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

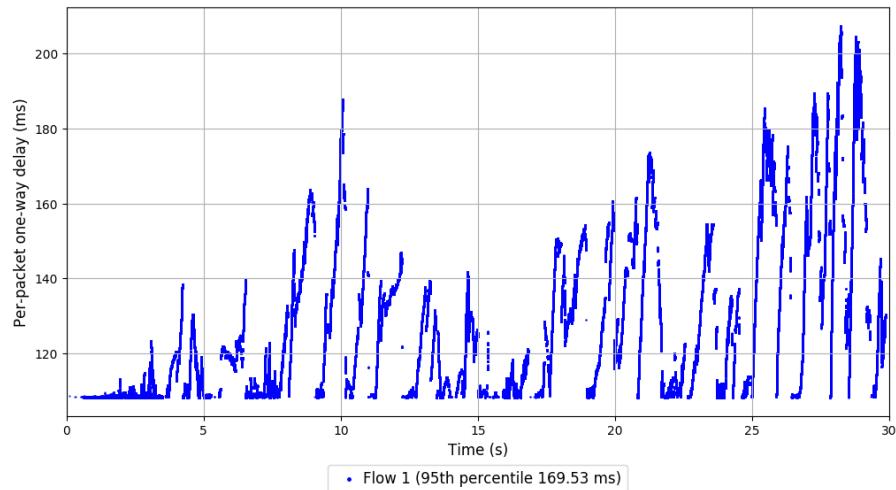
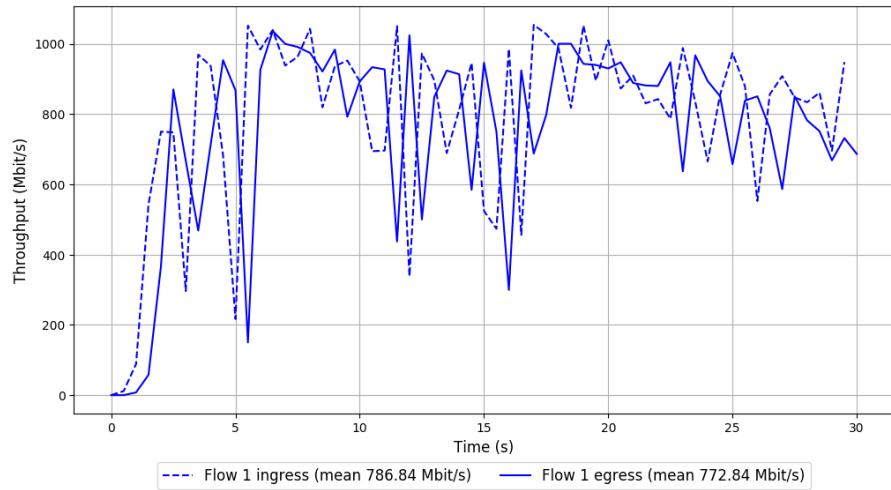


```
Run 5: Statistics of FillP
```

```
Start at: 2019-03-26 21:11:35
End at: 2019-03-26 21:12:05
Local clock offset: 1.75 ms
Remote clock offset: 2.024 ms

# Below is generated by plot.py at 2019-03-26 22:11:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 772.84 Mbit/s
95th percentile per-packet one-way delay: 169.526 ms
Loss rate: 2.50%
-- Flow 1:
Average throughput: 772.84 Mbit/s
95th percentile per-packet one-way delay: 169.526 ms
Loss rate: 2.50%
```

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

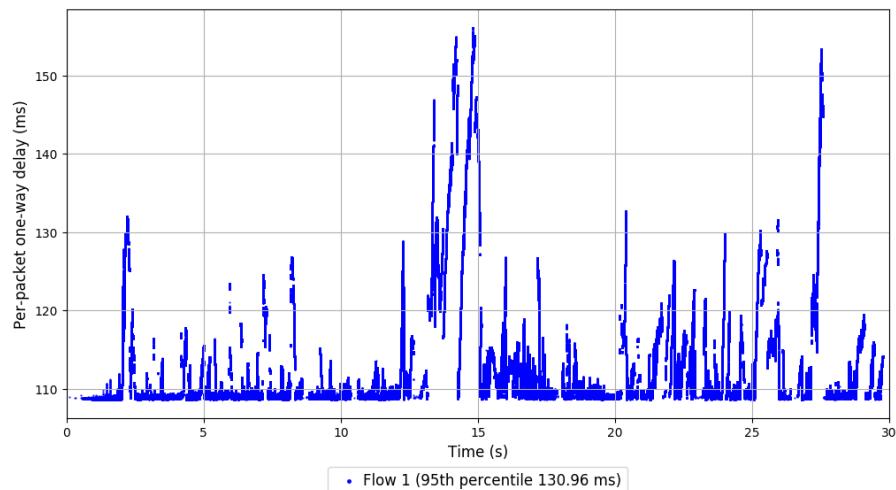
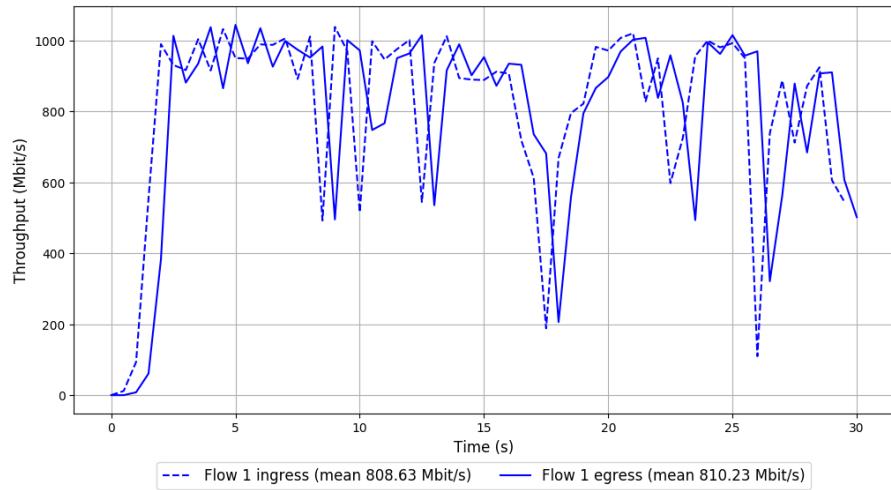


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-03-26 19:12:25
End at: 2019-03-26 19:12:55
Local clock offset: 15.89 ms
Remote clock offset: 17.327 ms

# Below is generated by plot.py at 2019-03-26 22:11:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 810.23 Mbit/s
95th percentile per-packet one-way delay: 130.956 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 810.23 Mbit/s
95th percentile per-packet one-way delay: 130.956 ms
Loss rate: 0.49%
```

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

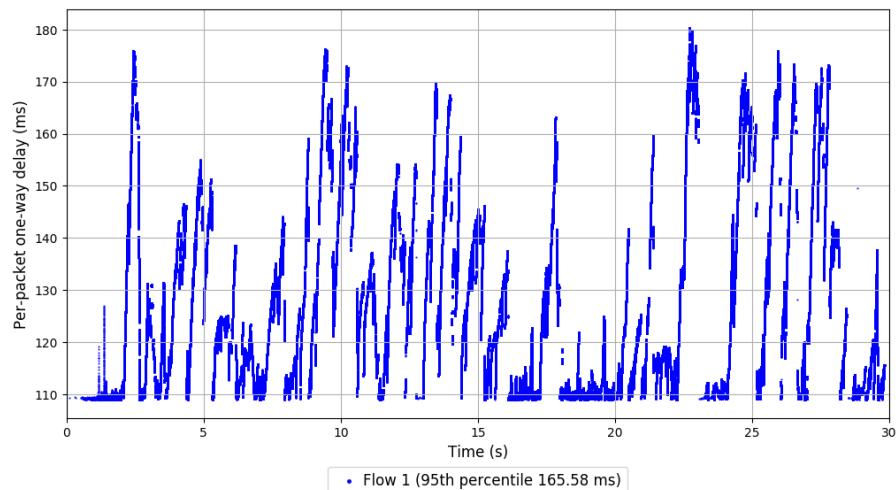
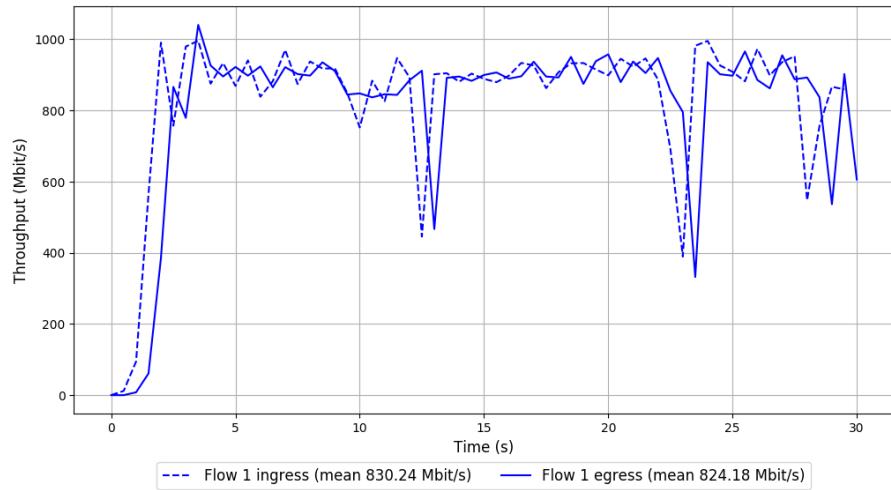


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-03-26 19:44:59
End at: 2019-03-26 19:45:29
Local clock offset: 30.035 ms
Remote clock offset: 31.65 ms

# Below is generated by plot.py at 2019-03-26 22:12:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 824.18 Mbit/s
95th percentile per-packet one-way delay: 165.576 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 824.18 Mbit/s
95th percentile per-packet one-way delay: 165.576 ms
Loss rate: 1.48%
```

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

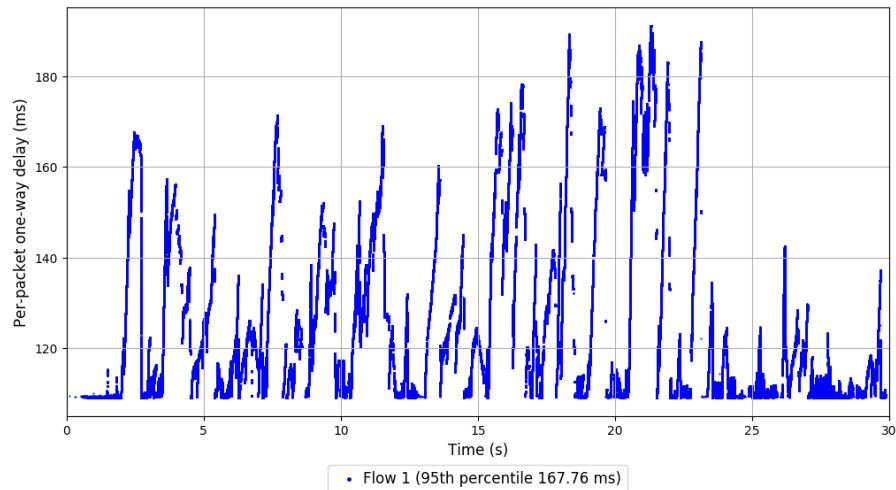
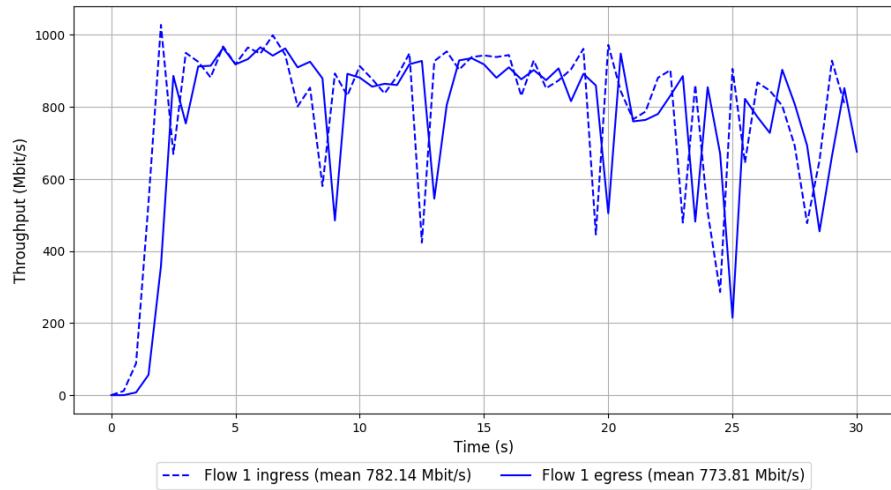


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-03-26 20:17:16
End at: 2019-03-26 20:17:46
Local clock offset: 8.719 ms
Remote clock offset: 9.134 ms

# Below is generated by plot.py at 2019-03-26 22:12:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 773.81 Mbit/s
95th percentile per-packet one-way delay: 167.764 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 773.81 Mbit/s
95th percentile per-packet one-way delay: 167.764 ms
Loss rate: 1.79%
```

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

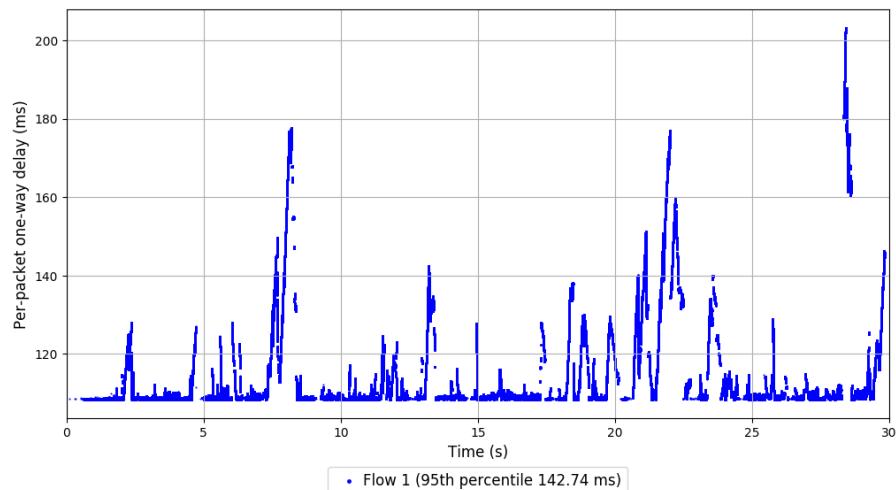
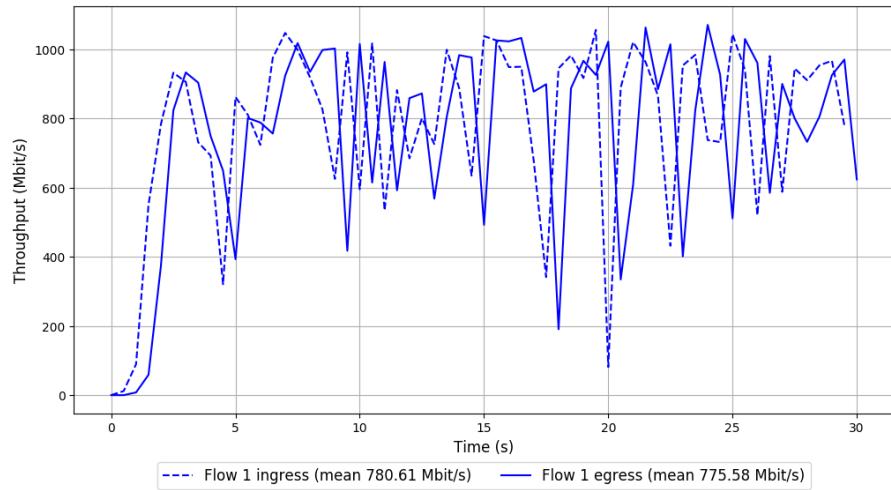


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-03-26 20:49:45
End at: 2019-03-26 20:50:15
Local clock offset: 3.374 ms
Remote clock offset: 3.667 ms

# Below is generated by plot.py at 2019-03-26 22:23:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 775.58 Mbit/s
95th percentile per-packet one-way delay: 142.743 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 775.58 Mbit/s
95th percentile per-packet one-way delay: 142.743 ms
Loss rate: 1.35%
```

Run 4: Report of FillP-Sheep — Data Link

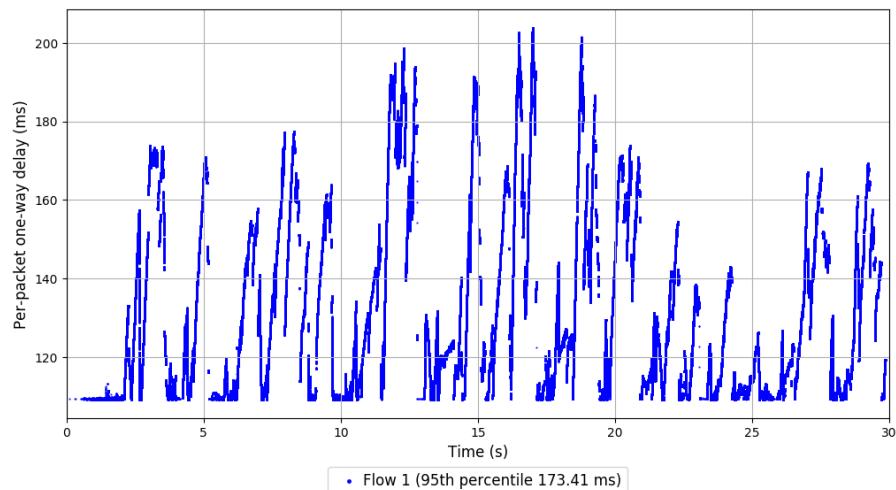
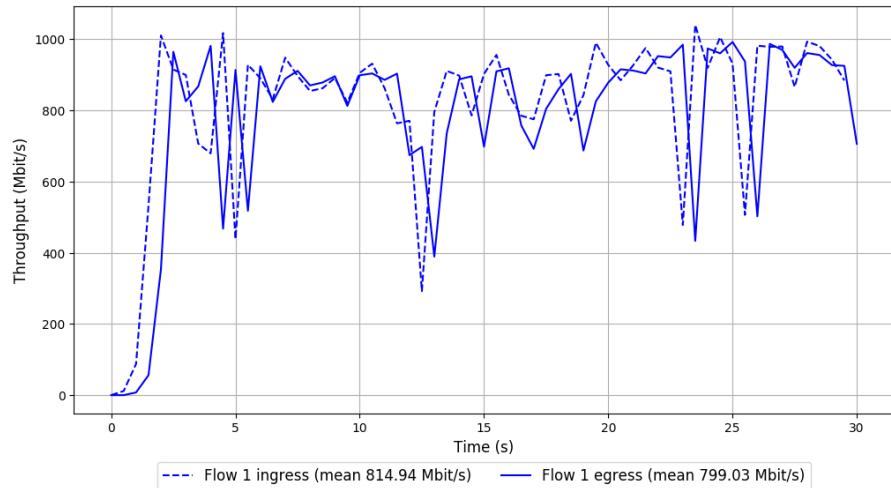


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-03-26 21:22:11
End at: 2019-03-26 21:22:41
Local clock offset: 1.184 ms
Remote clock offset: 1.581 ms

# Below is generated by plot.py at 2019-03-26 22:27:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 799.03 Mbit/s
95th percentile per-packet one-way delay: 173.405 ms
Loss rate: 2.67%
-- Flow 1:
Average throughput: 799.03 Mbit/s
95th percentile per-packet one-way delay: 173.405 ms
Loss rate: 2.67%
```

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

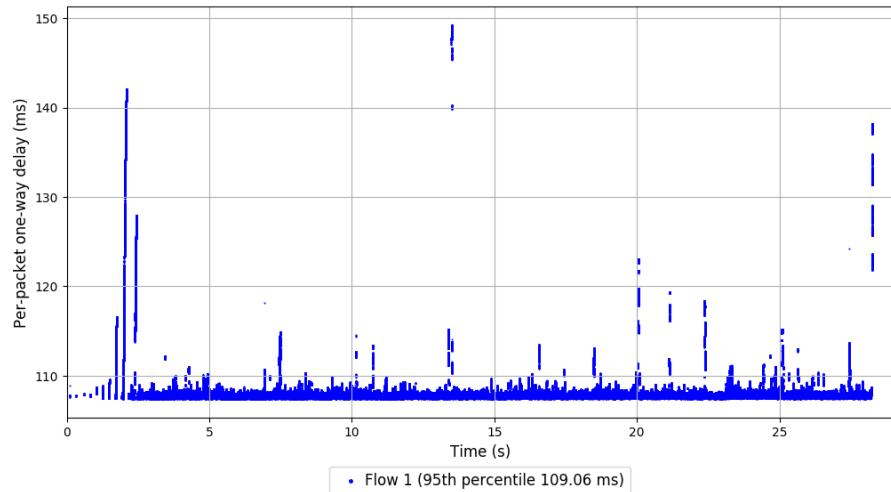
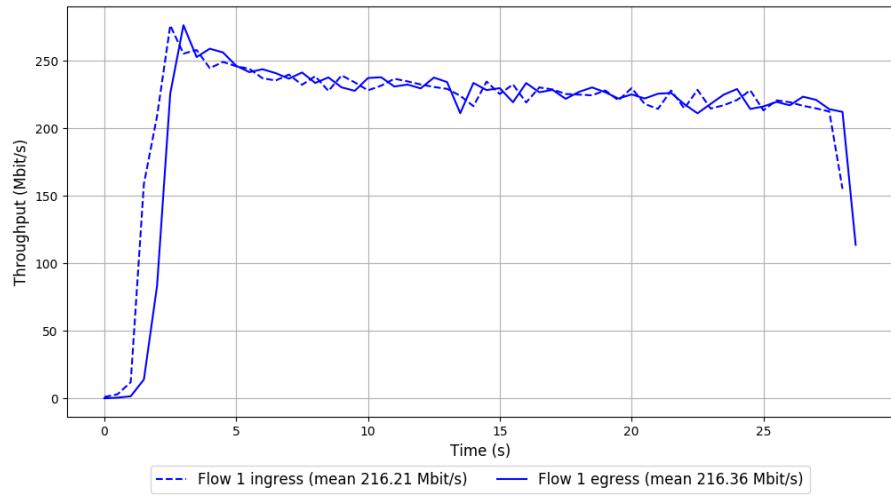


Run 1: Statistics of Indigo

```
Start at: 2019-03-26 18:59:08
End at: 2019-03-26 18:59:39
Local clock offset: 10.589 ms
Remote clock offset: 12.084 ms

# Below is generated by plot.py at 2019-03-26 22:27:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 216.36 Mbit/s
95th percentile per-packet one-way delay: 109.061 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 216.36 Mbit/s
95th percentile per-packet one-way delay: 109.061 ms
Loss rate: 0.70%
```

## Run 1: Report of Indigo — Data Link

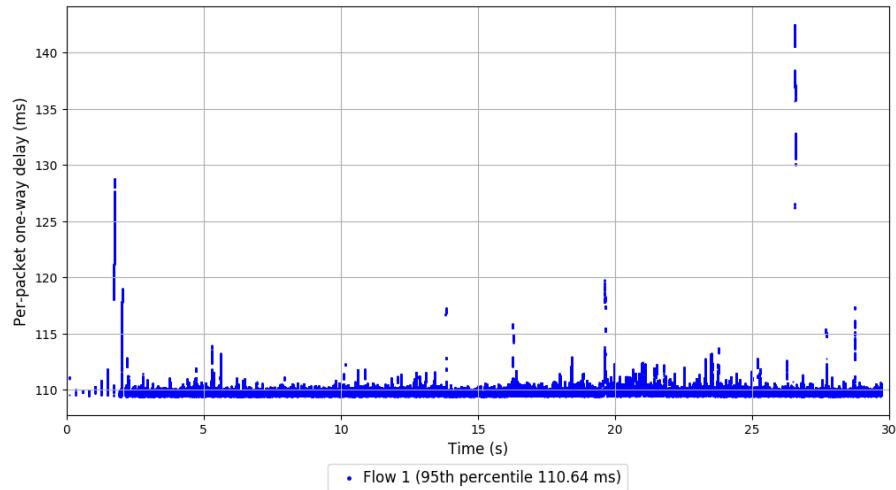
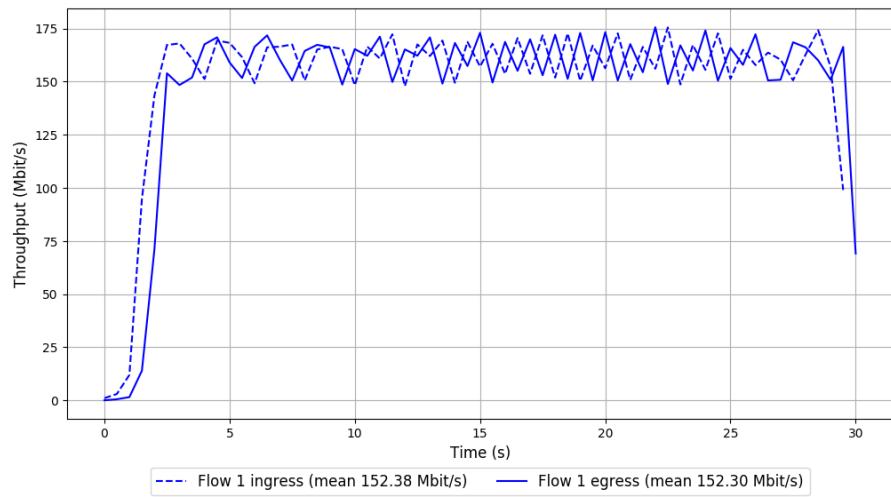


Run 2: Statistics of Indigo

```
Start at: 2019-03-26 19:31:26
End at: 2019-03-26 19:31:56
Local clock offset: 19.698 ms
Remote clock offset: 20.688 ms

# Below is generated by plot.py at 2019-03-26 22:27:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 152.30 Mbit/s
95th percentile per-packet one-way delay: 110.642 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 152.30 Mbit/s
95th percentile per-packet one-way delay: 110.642 ms
Loss rate: 0.79%
```

Run 2: Report of Indigo — Data Link

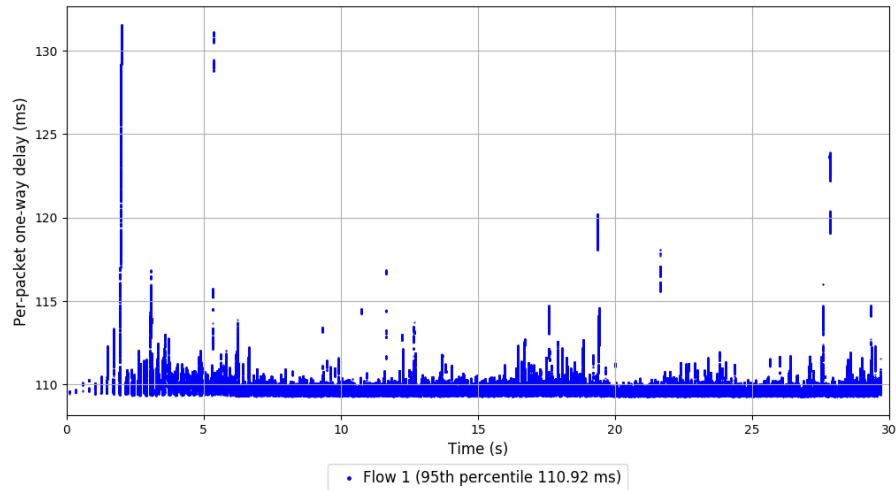
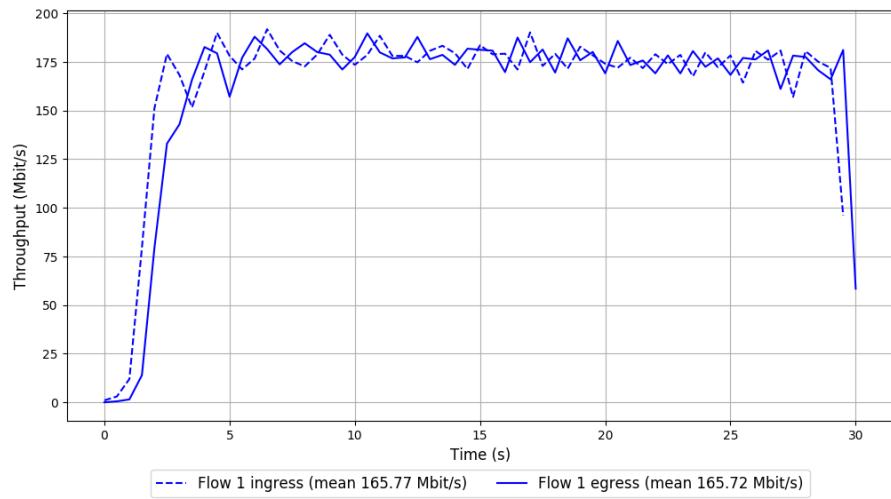


Run 3: Statistics of Indigo

```
Start at: 2019-03-26 20:04:06
End at: 2019-03-26 20:04:36
Local clock offset: 14.204 ms
Remote clock offset: 14.834 ms

# Below is generated by plot.py at 2019-03-26 22:27:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 165.72 Mbit/s
95th percentile per-packet one-way delay: 110.921 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 165.72 Mbit/s
95th percentile per-packet one-way delay: 110.921 ms
Loss rate: 0.76%
```

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

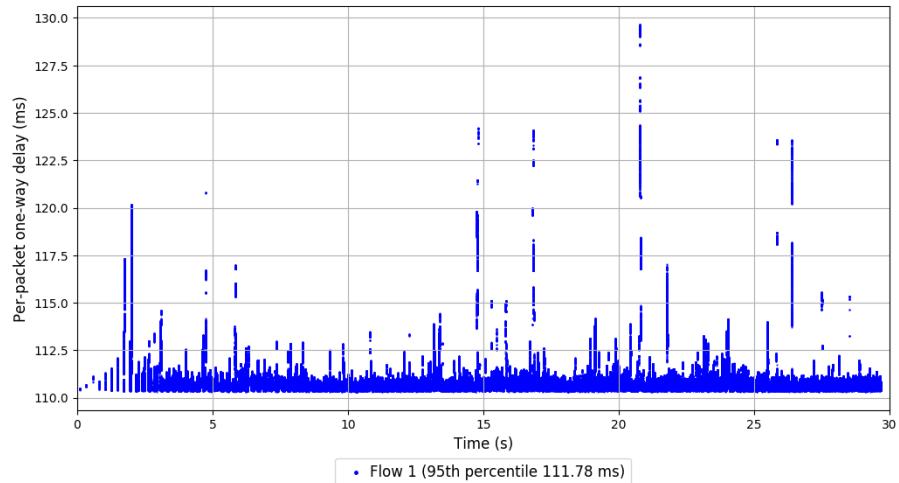
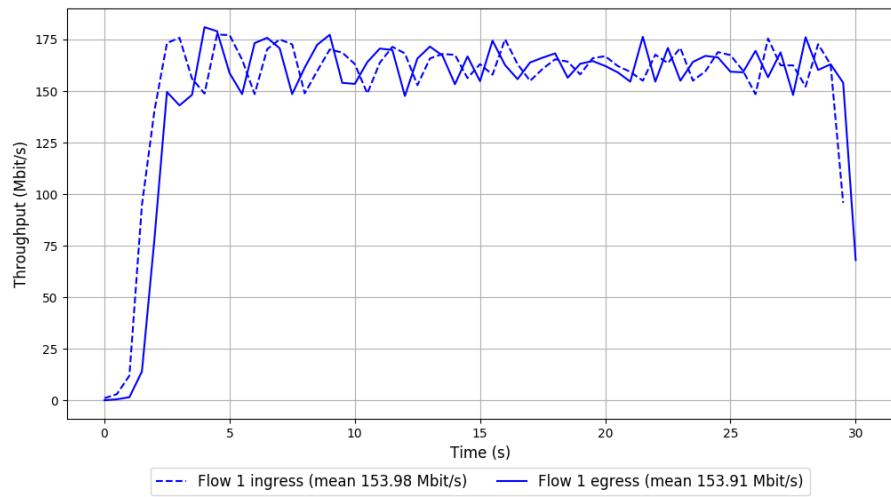


Run 4: Statistics of Indigo

```
Start at: 2019-03-26 20:36:08
End at: 2019-03-26 20:36:38
Local clock offset: 4.115 ms
Remote clock offset: 4.992 ms

# Below is generated by plot.py at 2019-03-26 22:27:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 153.91 Mbit/s
95th percentile per-packet one-way delay: 111.781 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 153.91 Mbit/s
95th percentile per-packet one-way delay: 111.781 ms
Loss rate: 0.79%
```

## Run 4: Report of Indigo — Data Link

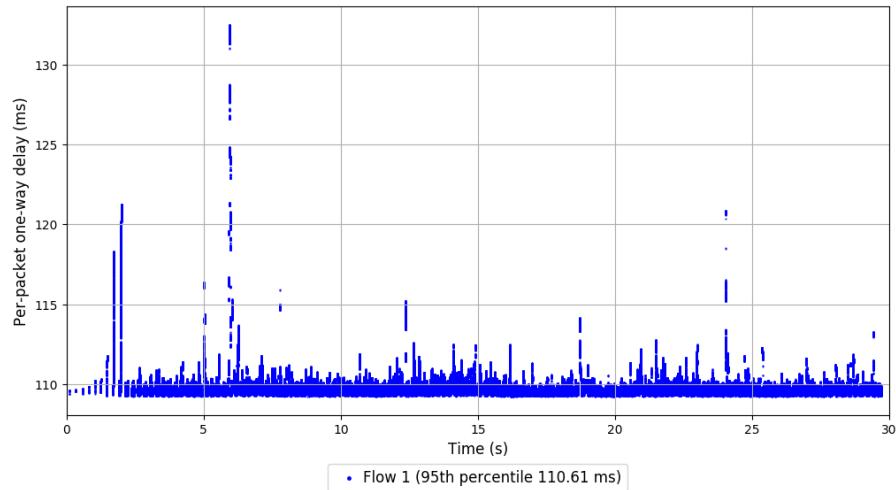
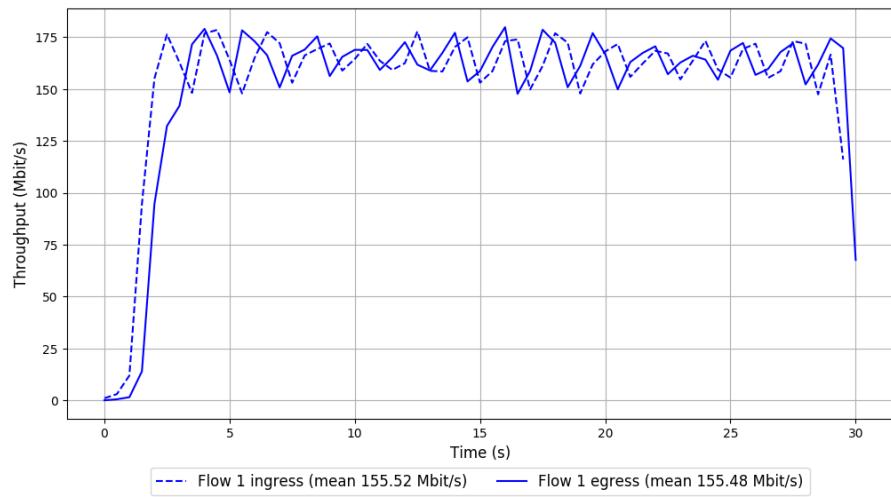


Run 5: Statistics of Indigo

```
Start at: 2019-03-26 21:08:59
End at: 2019-03-26 21:09:29
Local clock offset: 2.208 ms
Remote clock offset: 2.461 ms

# Below is generated by plot.py at 2019-03-26 22:27:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 155.48 Mbit/s
95th percentile per-packet one-way delay: 110.606 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 155.48 Mbit/s
95th percentile per-packet one-way delay: 110.606 ms
Loss rate: 0.76%
```

## Run 5: Report of Indigo — Data Link

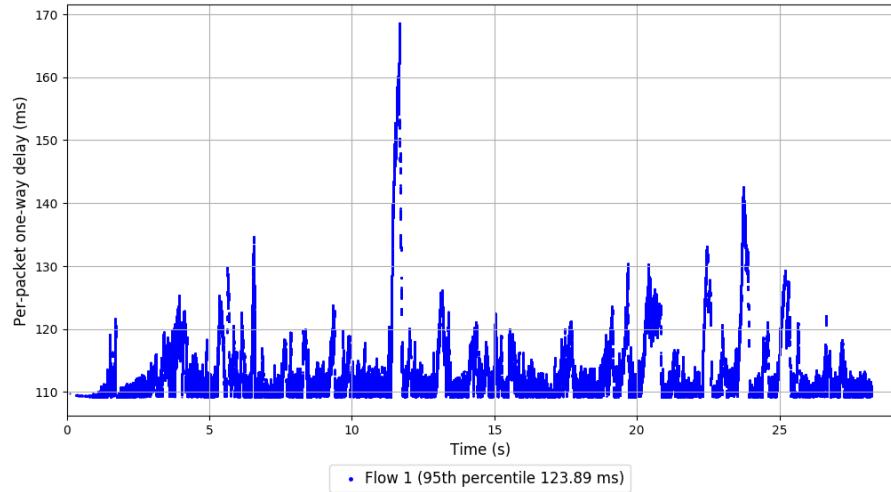
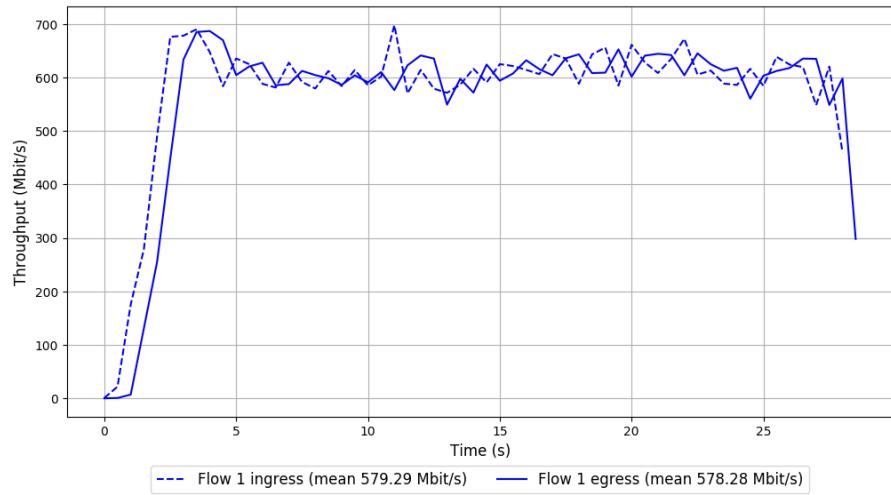


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-03-26 19:06:26
End at: 2019-03-26 19:06:56
Local clock offset: 12.701 ms
Remote clock offset: 13.328 ms

# Below is generated by plot.py at 2019-03-26 22:27:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 578.28 Mbit/s
95th percentile per-packet one-way delay: 123.892 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 578.28 Mbit/s
95th percentile per-packet one-way delay: 123.892 ms
Loss rate: 0.95%
```

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

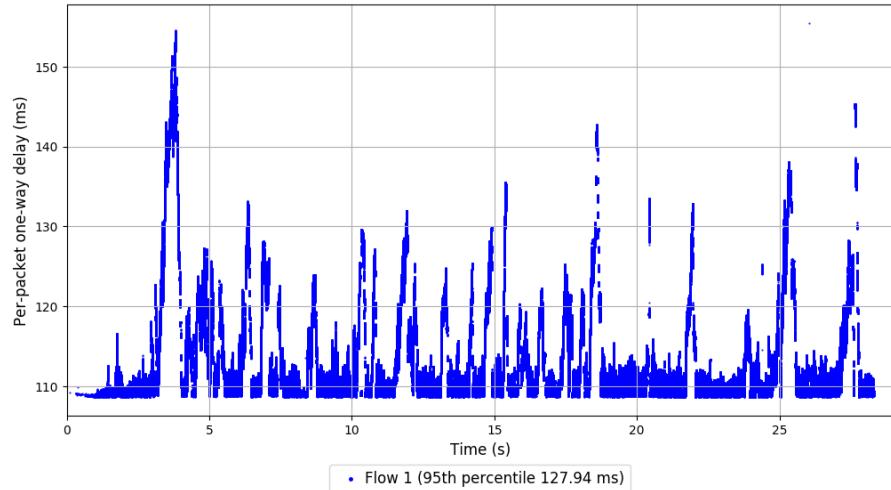
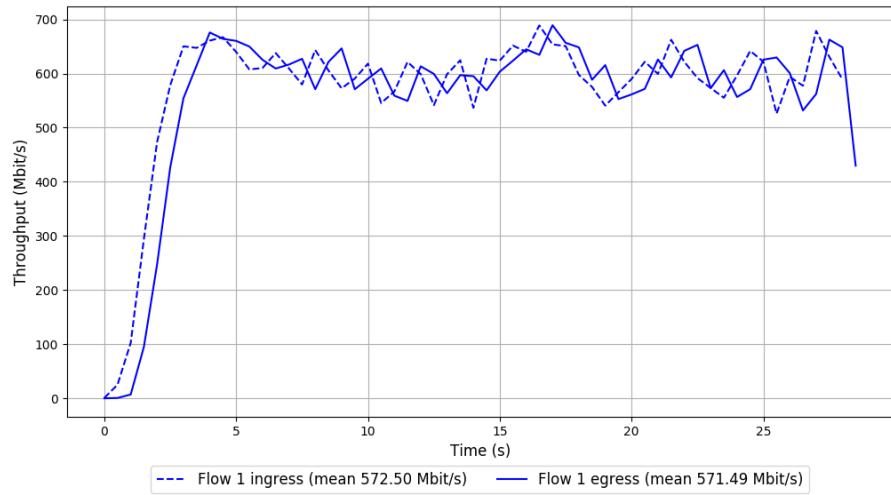


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-03-26 19:39:02
End at: 2019-03-26 19:39:32
Local clock offset: 24.05 ms
Remote clock offset: 25.725 ms

# Below is generated by plot.py at 2019-03-26 22:27:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 571.49 Mbit/s
95th percentile per-packet one-way delay: 127.943 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 571.49 Mbit/s
95th percentile per-packet one-way delay: 127.943 ms
Loss rate: 0.94%
```

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

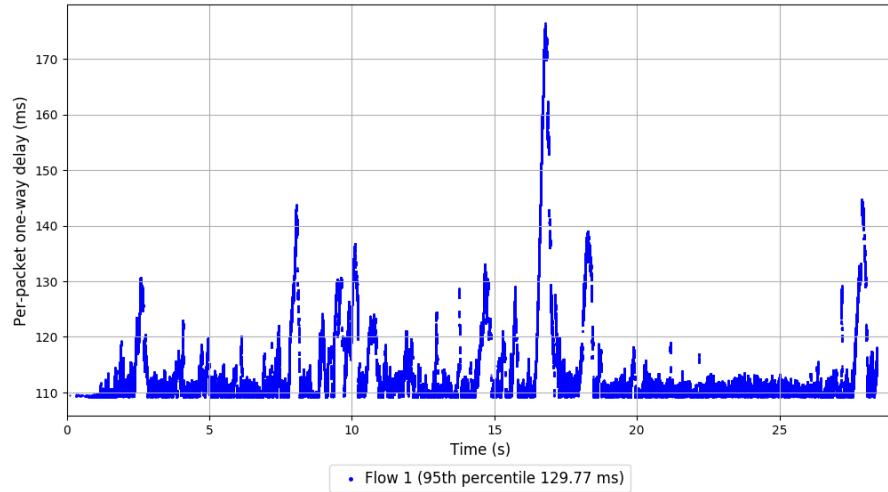
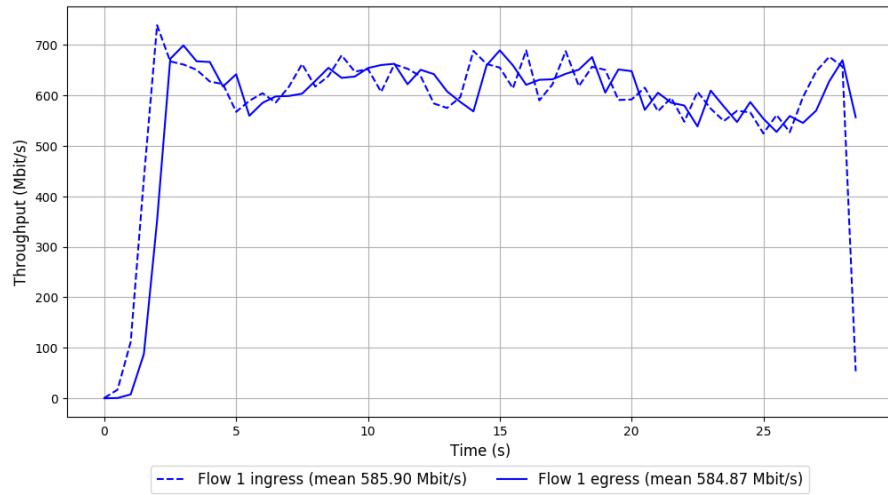


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-03-26 20:11:15
End at: 2019-03-26 20:11:45
Local clock offset: 9.744 ms
Remote clock offset: 10.064 ms

# Below is generated by plot.py at 2019-03-26 22:27:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 584.87 Mbit/s
95th percentile per-packet one-way delay: 129.769 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 584.87 Mbit/s
95th percentile per-packet one-way delay: 129.769 ms
Loss rate: 0.94%
```

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

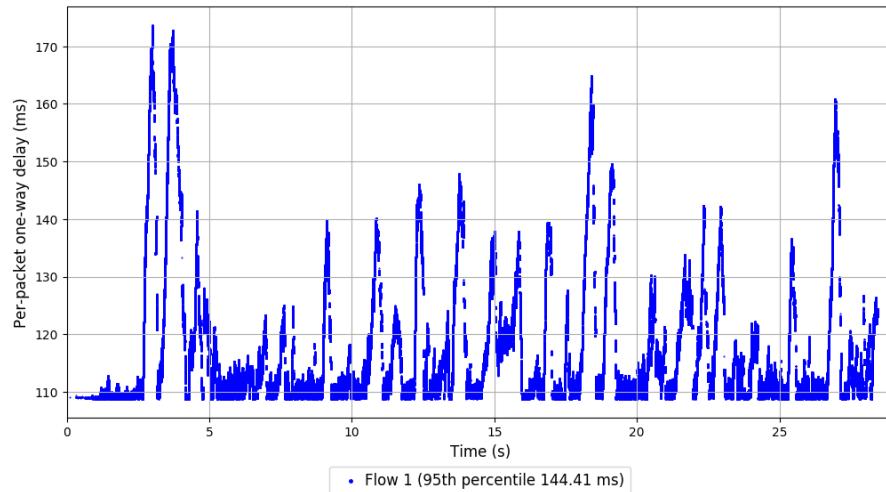
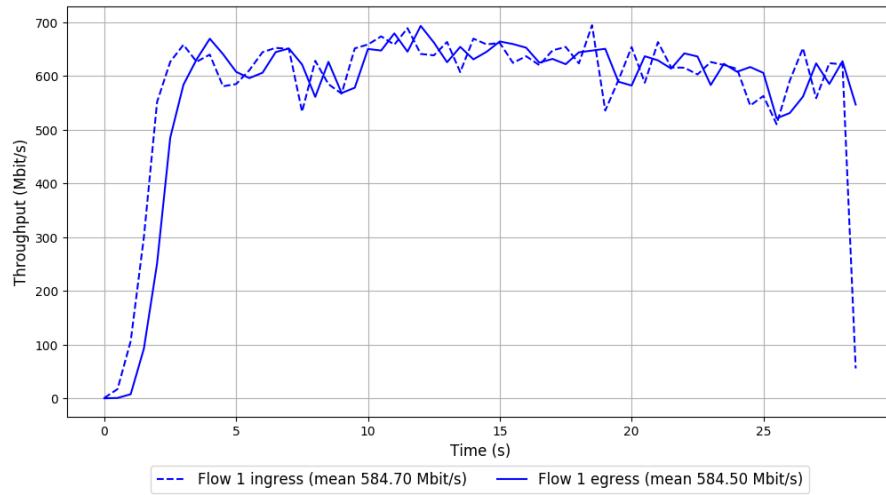


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-03-26 20:43:37
End at: 2019-03-26 20:44:07
Local clock offset: 3.268 ms
Remote clock offset: 3.7 ms

# Below is generated by plot.py at 2019-03-26 22:27:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 584.50 Mbit/s
95th percentile per-packet one-way delay: 144.406 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 584.50 Mbit/s
95th percentile per-packet one-way delay: 144.406 ms
Loss rate: 0.80%
```

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

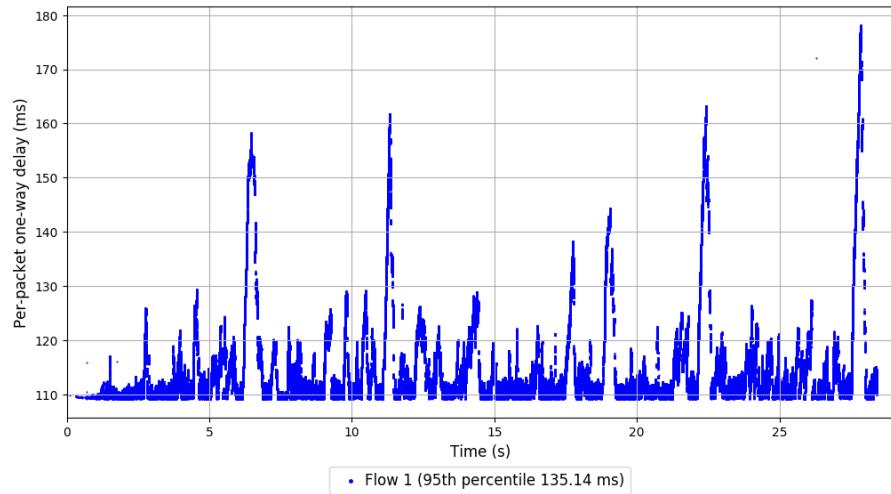
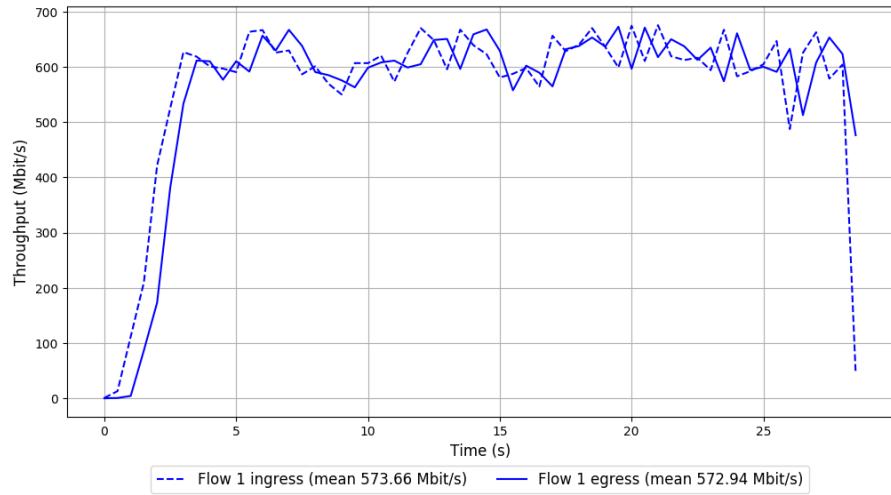


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-03-26 21:16:10
End at: 2019-03-26 21:16:40
Local clock offset: 1.419 ms
Remote clock offset: 1.66 ms

# Below is generated by plot.py at 2019-03-26 22:27:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 572.94 Mbit/s
95th percentile per-packet one-way delay: 135.141 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 572.94 Mbit/s
95th percentile per-packet one-way delay: 135.141 ms
Loss rate: 0.89%
```

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

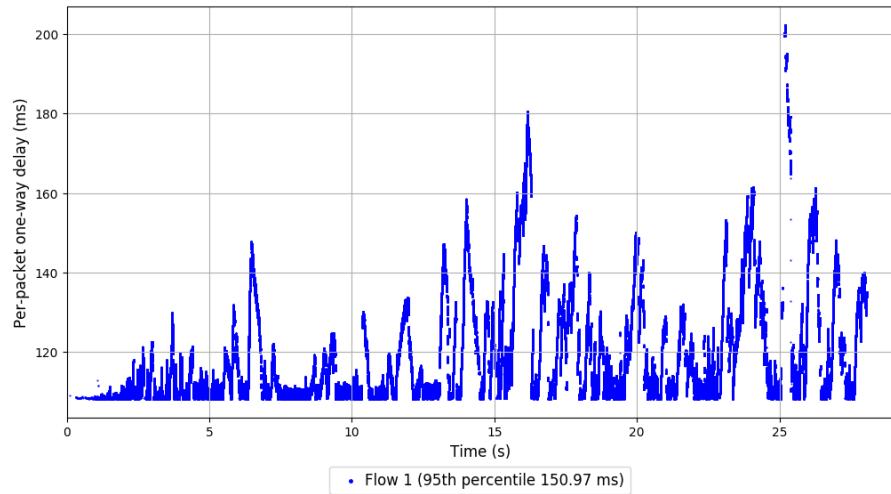
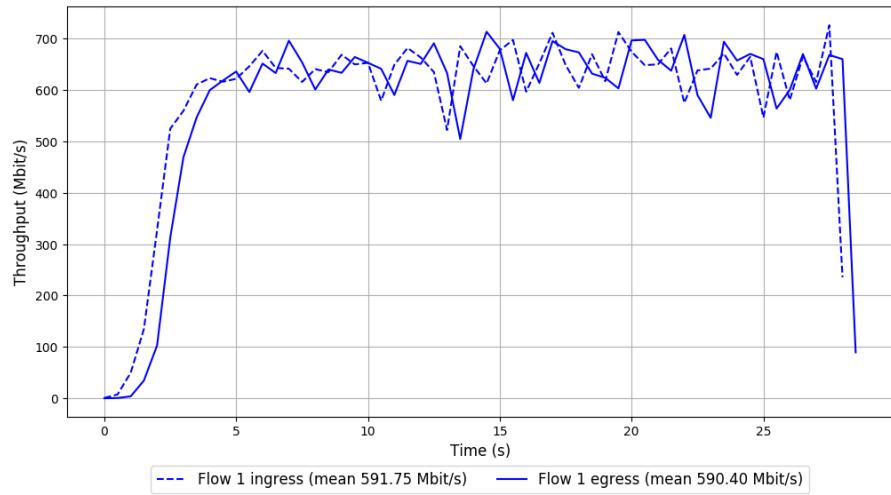


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-03-26 19:04:46
End at: 2019-03-26 19:05:16
Local clock offset: 13.72 ms
Remote clock offset: 14.526 ms

# Below is generated by plot.py at 2019-03-26 22:28:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 590.40 Mbit/s
95th percentile per-packet one-way delay: 150.971 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 590.40 Mbit/s
95th percentile per-packet one-way delay: 150.971 ms
Loss rate: 1.00%
```

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

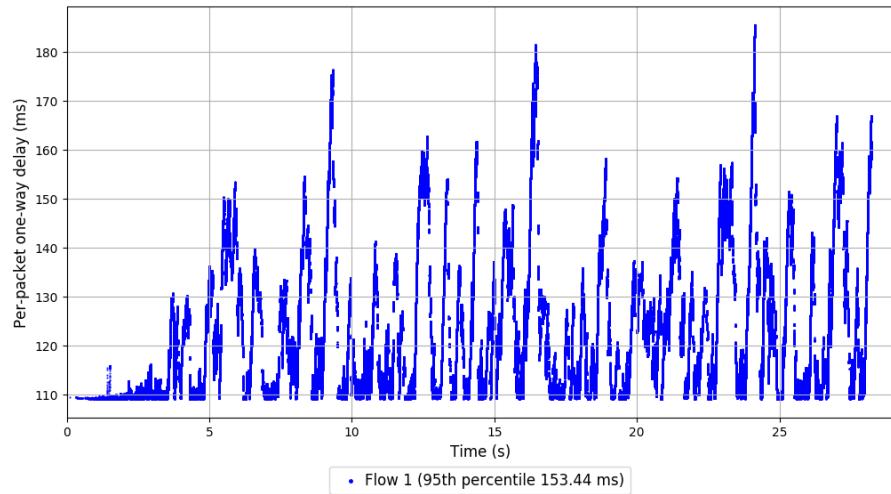
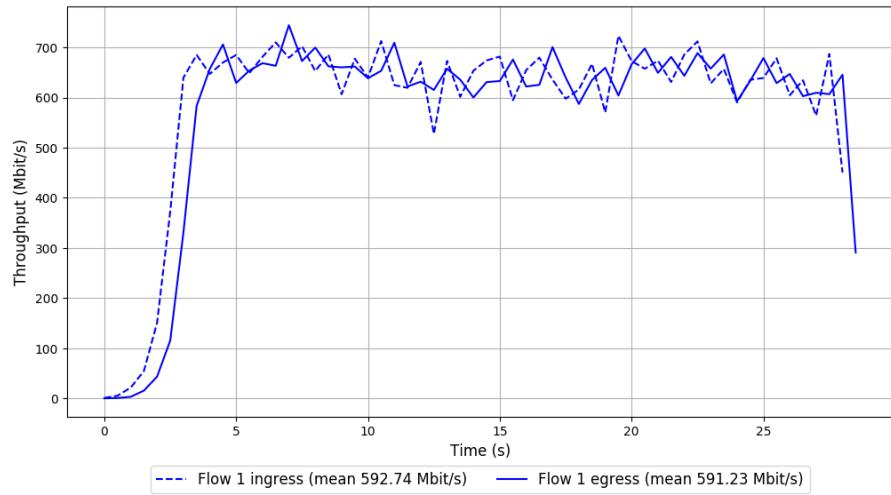


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-03-26 19:37:20
End at: 2019-03-26 19:37:50
Local clock offset: 23.027 ms
Remote clock offset: 24.194 ms

# Below is generated by plot.py at 2019-03-26 22:33:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 591.23 Mbit/s
95th percentile per-packet one-way delay: 153.441 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 591.23 Mbit/s
95th percentile per-packet one-way delay: 153.441 ms
Loss rate: 1.03%
```

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

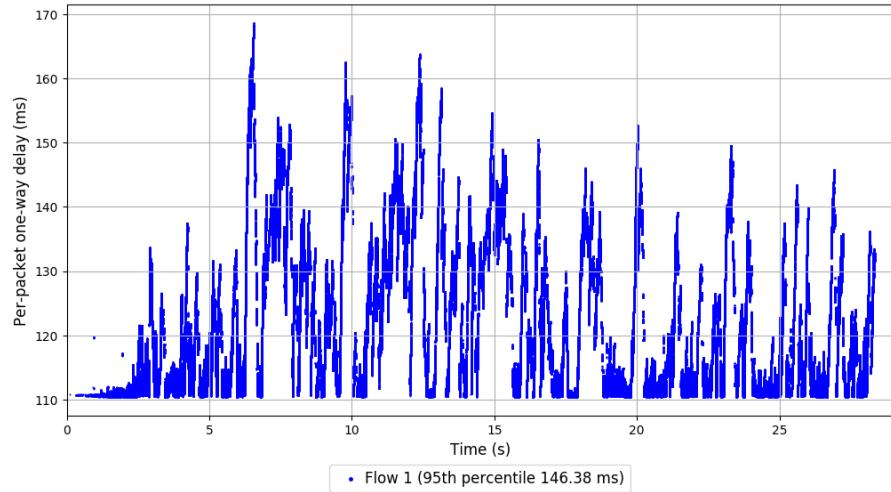
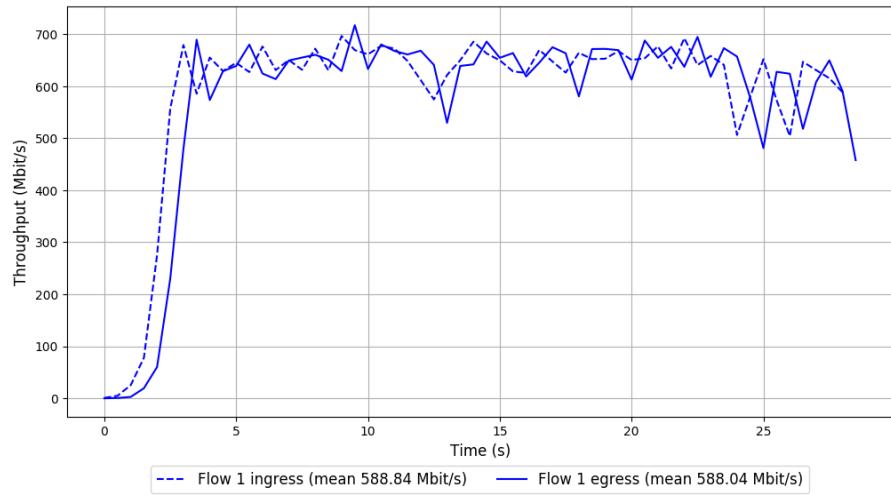


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-03-26 20:09:35
End at: 2019-03-26 20:10:05
Local clock offset: 10.352 ms
Remote clock offset: 10.755 ms

# Below is generated by plot.py at 2019-03-26 22:33:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 588.04 Mbit/s
95th percentile per-packet one-way delay: 146.382 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 588.04 Mbit/s
95th percentile per-packet one-way delay: 146.382 ms
Loss rate: 0.90%
```

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

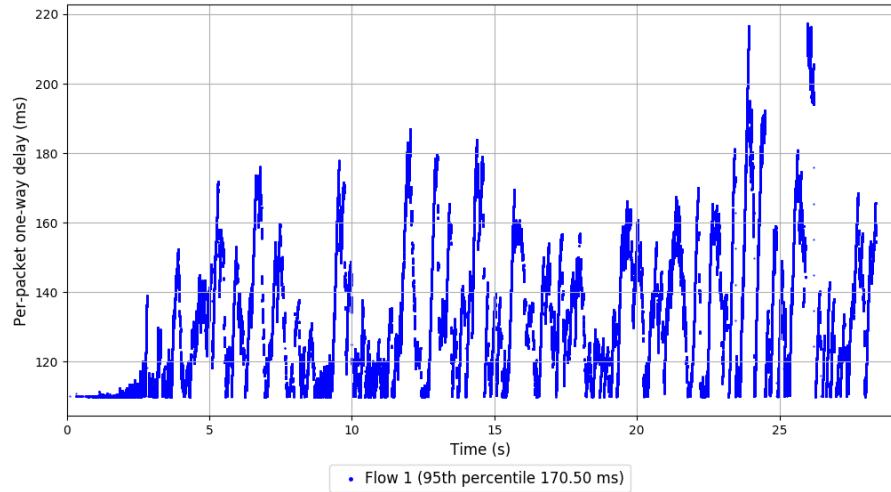
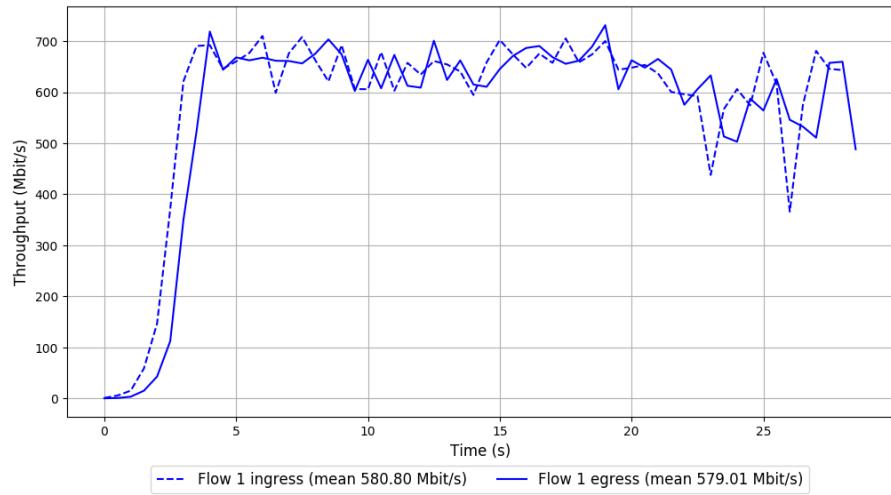


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-03-26 20:41:57
End at: 2019-03-26 20:42:27
Local clock offset: 3.655 ms
Remote clock offset: 3.472 ms

# Below is generated by plot.py at 2019-03-26 22:36:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 579.01 Mbit/s
95th percentile per-packet one-way delay: 170.502 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 579.01 Mbit/s
95th percentile per-packet one-way delay: 170.502 ms
Loss rate: 1.07%
```

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

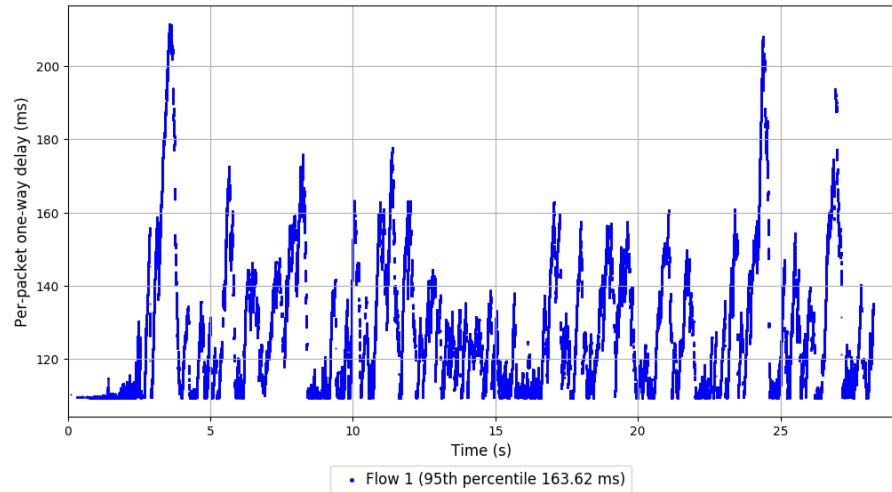
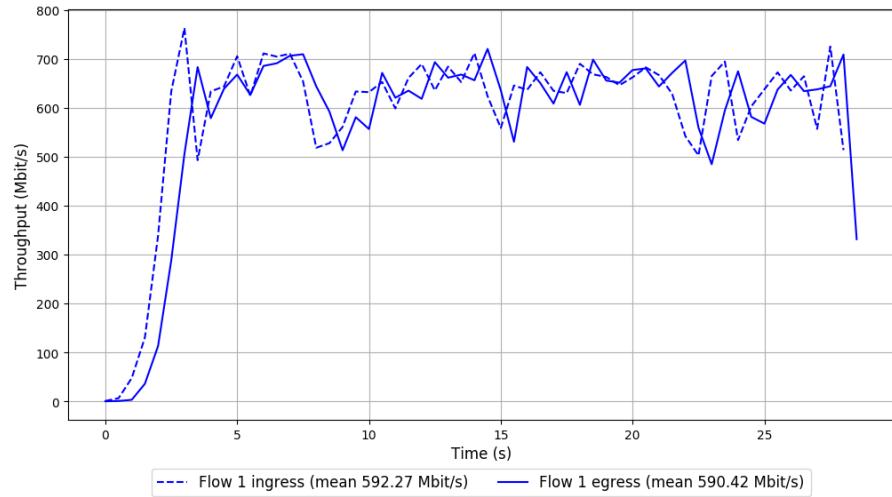


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-03-26 21:14:29
End at: 2019-03-26 21:15:00
Local clock offset: 1.579 ms
Remote clock offset: 1.757 ms

# Below is generated by plot.py at 2019-03-26 22:37:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 590.42 Mbit/s
95th percentile per-packet one-way delay: 163.616 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 590.42 Mbit/s
95th percentile per-packet one-way delay: 163.616 ms
Loss rate: 1.09%
```

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

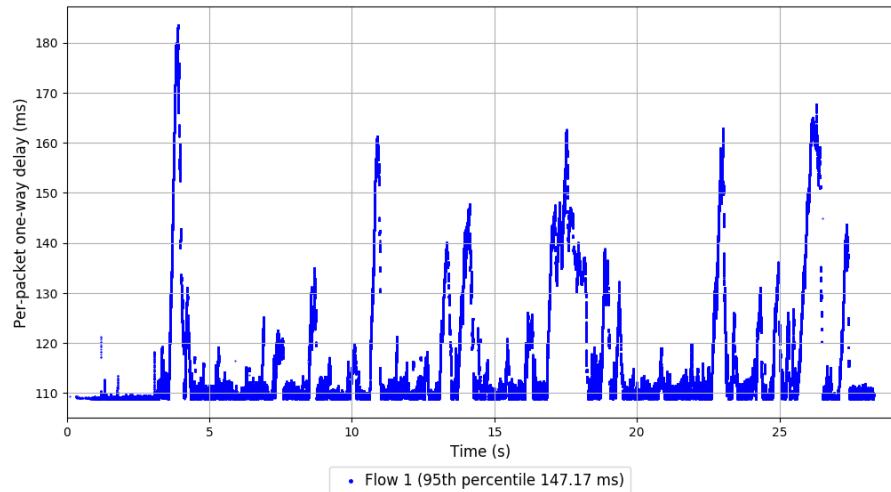
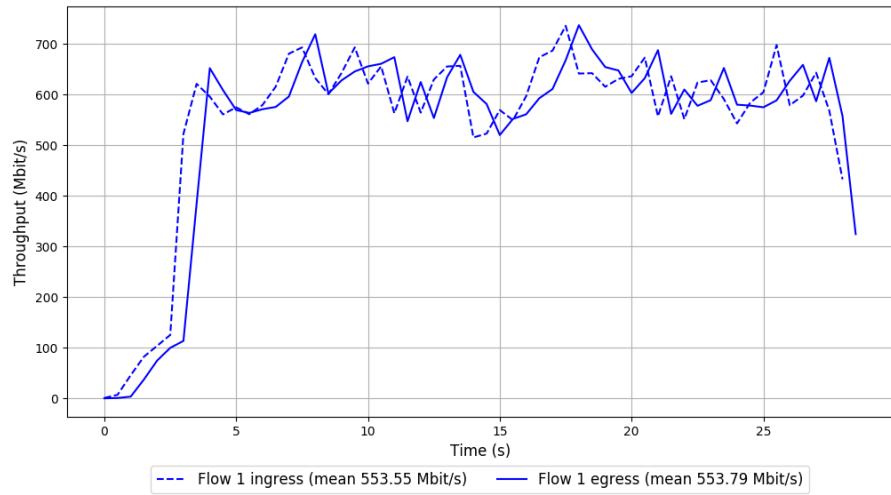


```
Run 1: Statistics of Indigo-MusesD
```

```
Start at: 2019-03-26 18:56:18
End at: 2019-03-26 18:56:48
Local clock offset: 8.455 ms
Remote clock offset: 8.507 ms

# Below is generated by plot.py at 2019-03-26 22:37:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 553.79 Mbit/s
95th percentile per-packet one-way delay: 147.174 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 553.79 Mbit/s
95th percentile per-packet one-way delay: 147.174 ms
Loss rate: 0.73%
```

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

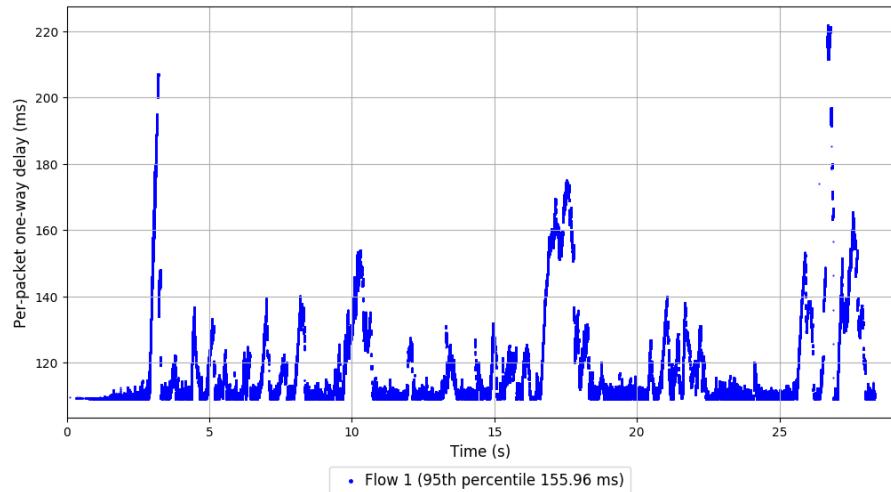
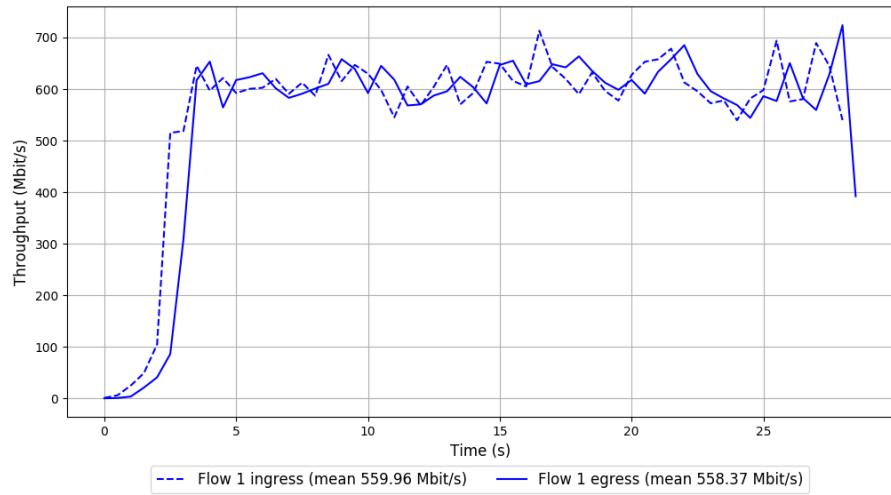


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-03-26 19:28:29
End at: 2019-03-26 19:28:59
Local clock offset: 18.893 ms
Remote clock offset: 19.934 ms

# Below is generated by plot.py at 2019-03-26 22:37:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 558.37 Mbit/s
95th percentile per-packet one-way delay: 155.957 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 558.37 Mbit/s
95th percentile per-packet one-way delay: 155.957 ms
Loss rate: 1.05%
```

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

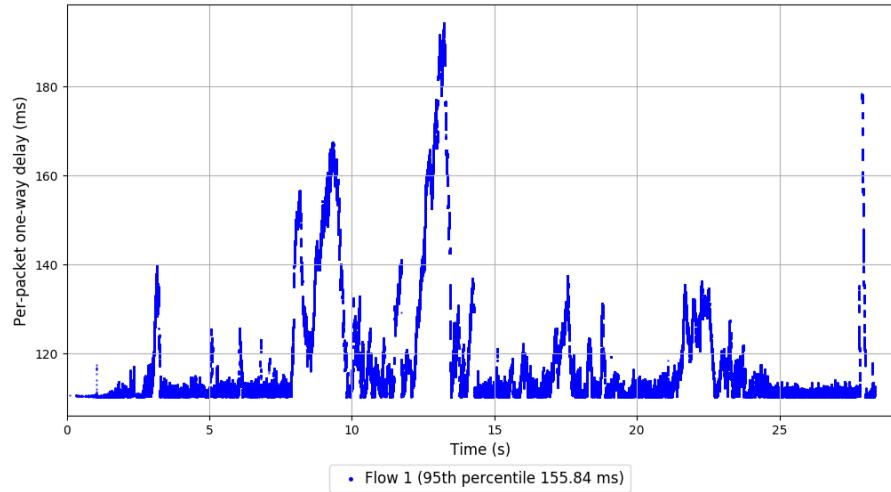
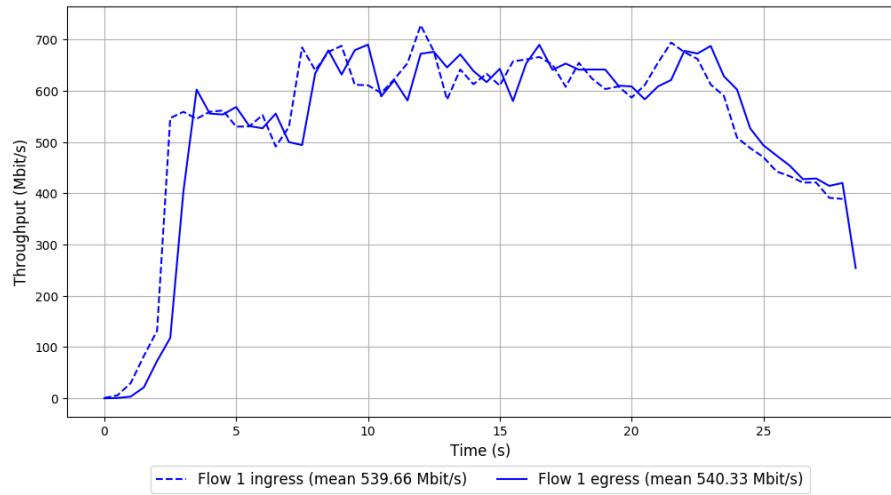


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-03-26 20:01:17
End at: 2019-03-26 20:01:47
Local clock offset: 18.927 ms
Remote clock offset: 18.661 ms

# Below is generated by plot.py at 2019-03-26 22:37:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 540.33 Mbit/s
95th percentile per-packet one-way delay: 155.841 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 540.33 Mbit/s
95th percentile per-packet one-way delay: 155.841 ms
Loss rate: 0.65%
```

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

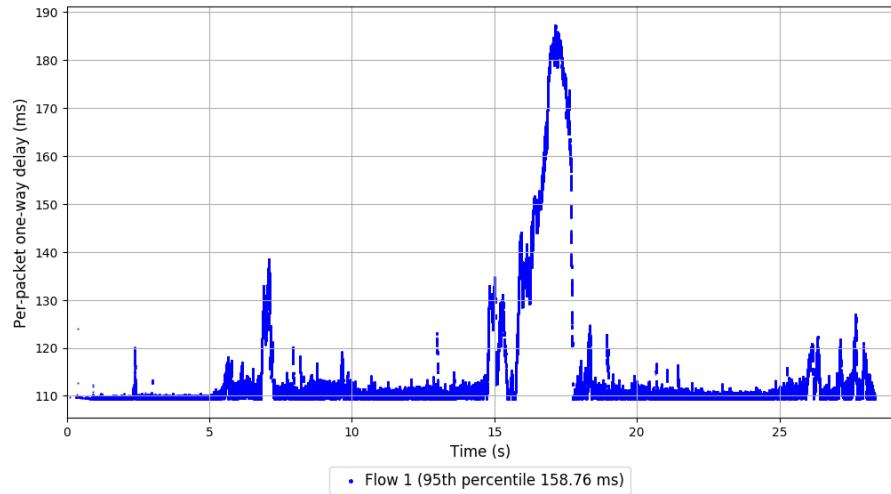
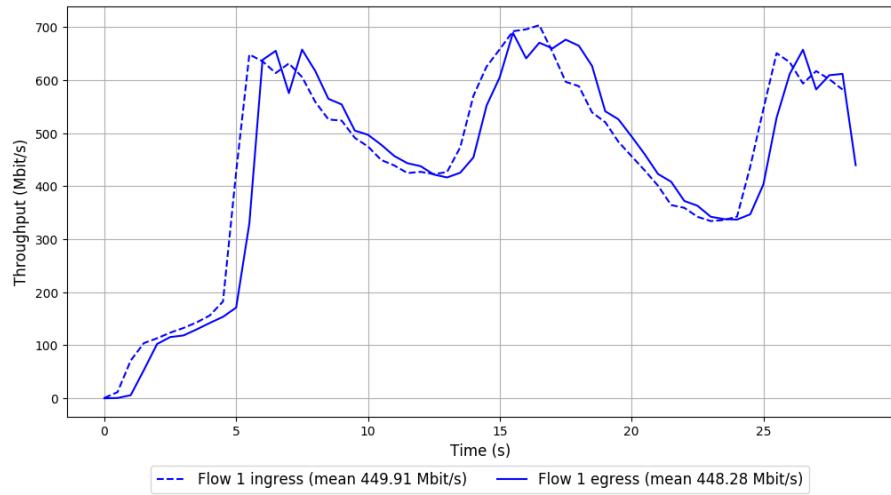


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-03-26 20:33:13
End at: 2019-03-26 20:33:43
Local clock offset: 5.798 ms
Remote clock offset: 6.109 ms

# Below is generated by plot.py at 2019-03-26 22:37:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 448.28 Mbit/s
95th percentile per-packet one-way delay: 158.756 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 448.28 Mbit/s
95th percentile per-packet one-way delay: 158.756 ms
Loss rate: 1.13%
```

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

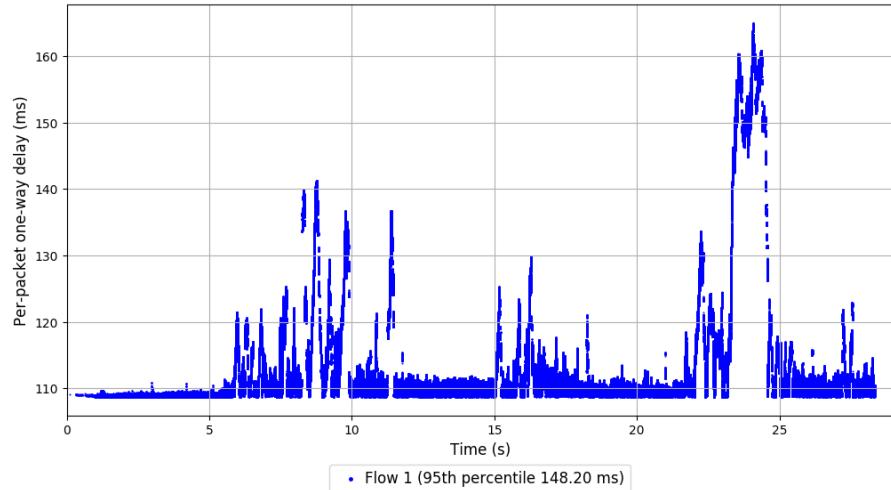
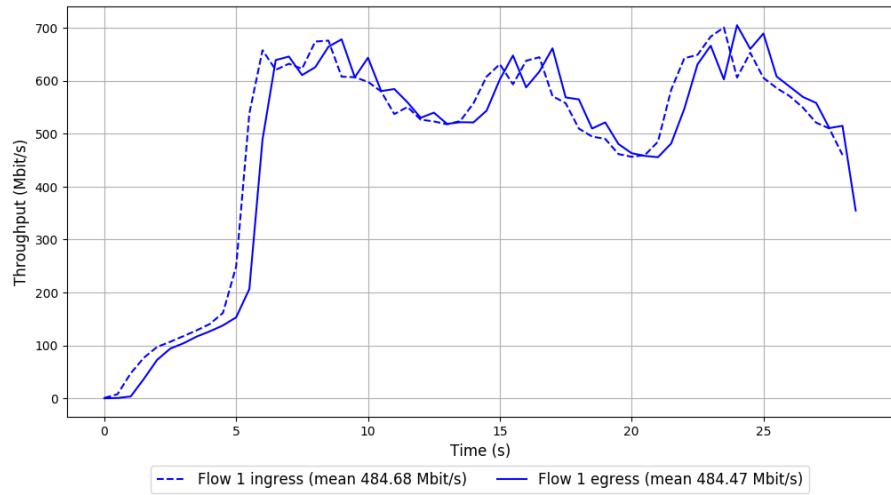


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-03-26 21:06:13
End at: 2019-03-26 21:06:43
Local clock offset: 2.692 ms
Remote clock offset: 2.64 ms

# Below is generated by plot.py at 2019-03-26 22:41:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 484.47 Mbit/s
95th percentile per-packet one-way delay: 148.197 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 484.47 Mbit/s
95th percentile per-packet one-way delay: 148.197 ms
Loss rate: 0.81%
```

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



Run 1: Statistics of Indigo-MusesT

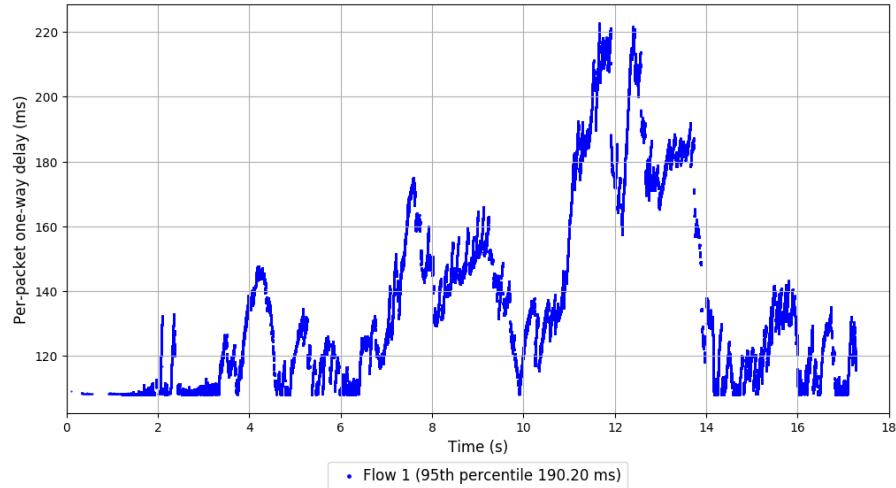
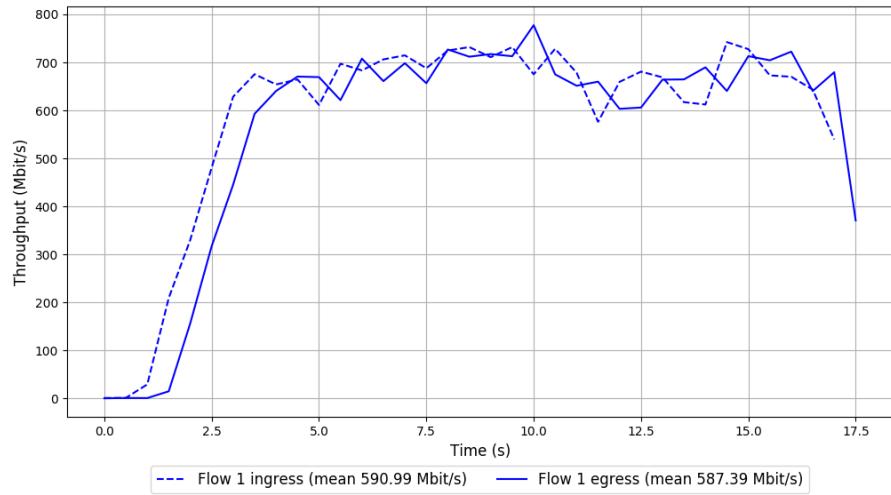
Start at: 2019-03-26 18:49:11

End at: 2019-03-26 18:49:41

Local clock offset: 5.533 ms

Remote clock offset: 6.052 ms

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

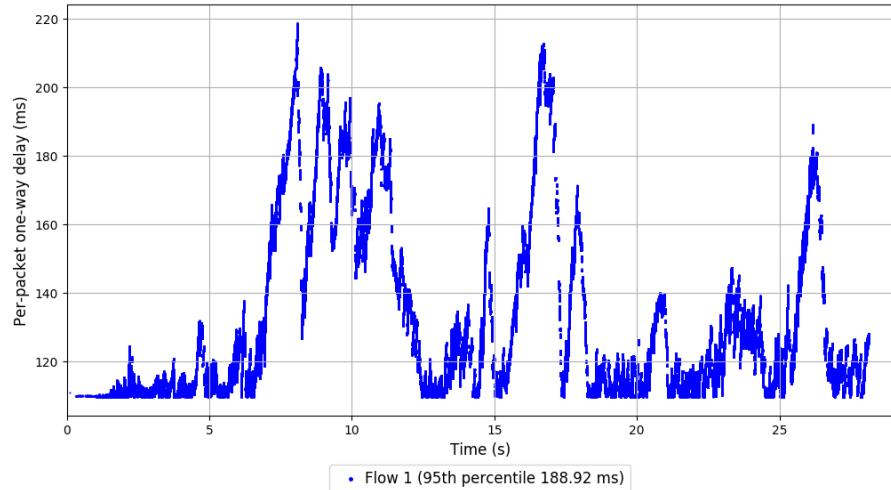
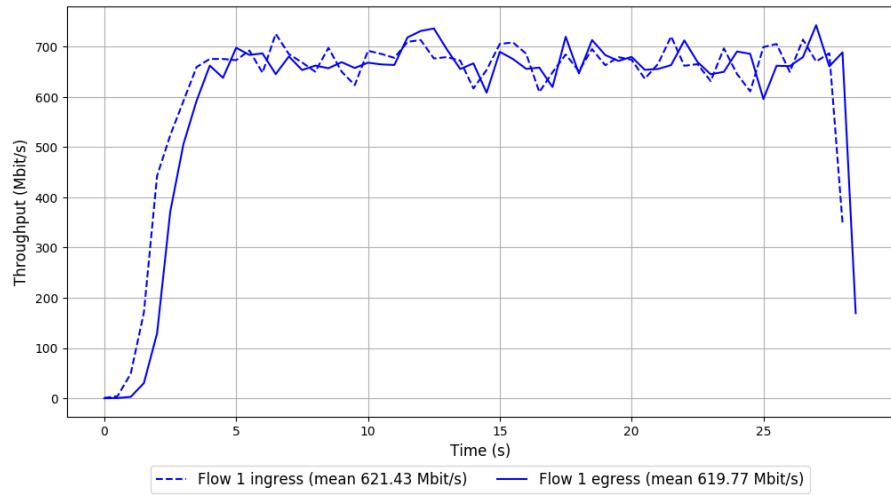


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-03-26 19:20:12
End at: 2019-03-26 19:20:42
Local clock offset: 25.008 ms
Remote clock offset: 25.669 ms

# Below is generated by plot.py at 2019-03-26 22:47:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 619.77 Mbit/s
95th percentile per-packet one-way delay: 188.919 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 619.77 Mbit/s
95th percentile per-packet one-way delay: 188.919 ms
Loss rate: 1.04%
```

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

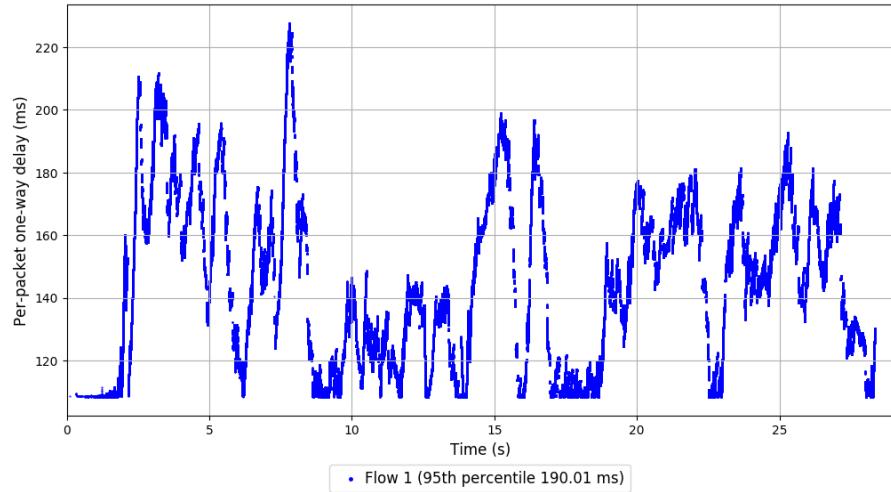
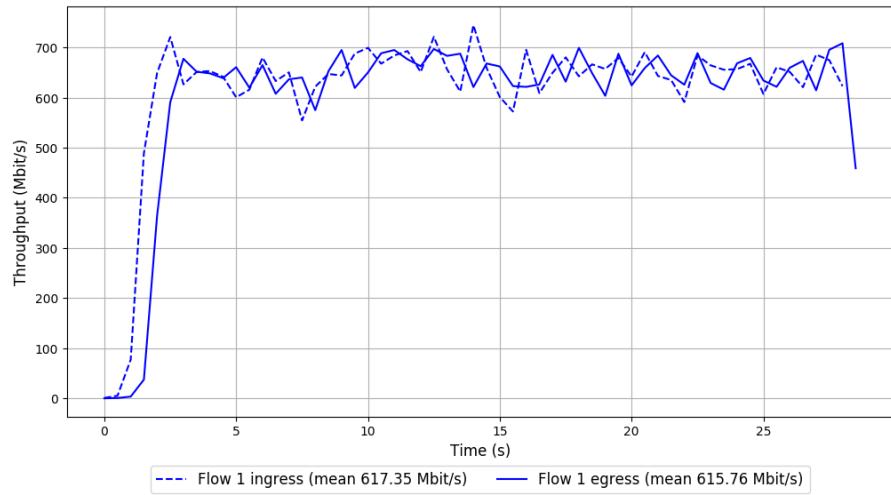


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-03-26 19:53:45
End at: 2019-03-26 19:54:15
Local clock offset: 38.648 ms
Remote clock offset: 40.369 ms

# Below is generated by plot.py at 2019-03-26 22:47:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 615.76 Mbit/s
95th percentile per-packet one-way delay: 190.010 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 615.76 Mbit/s
95th percentile per-packet one-way delay: 190.010 ms
Loss rate: 1.02%
```

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

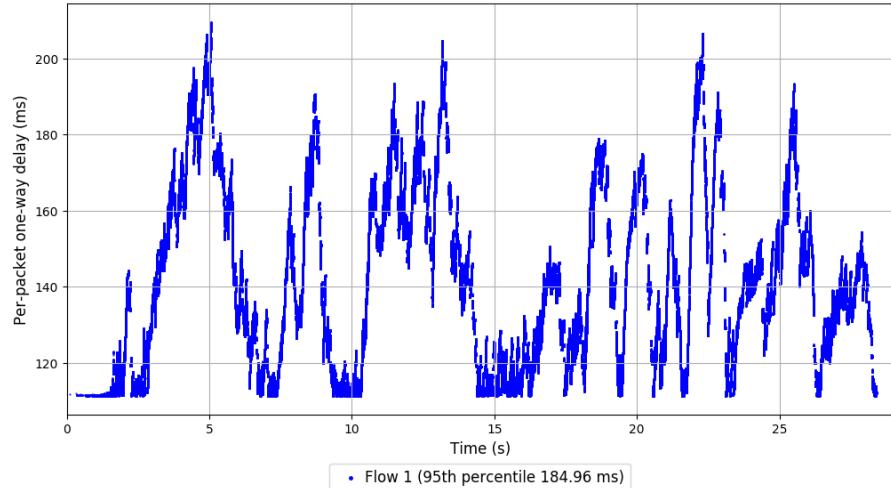
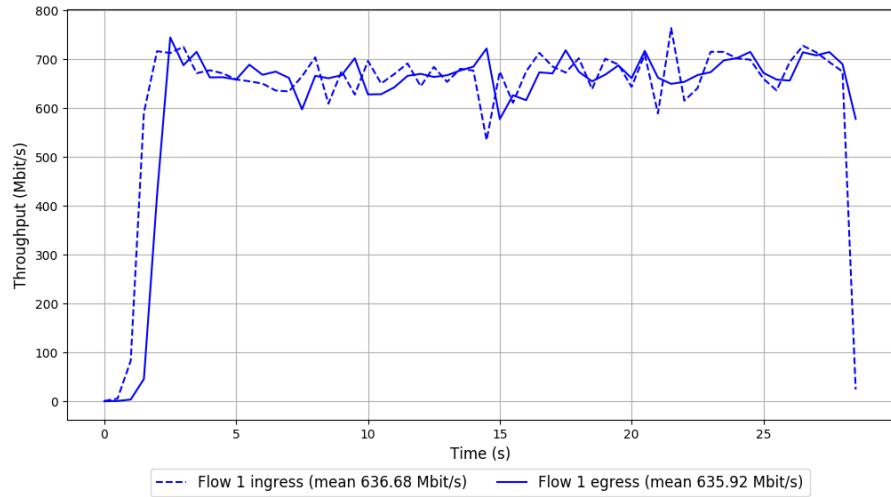


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-03-26 20:25:19
End at: 2019-03-26 20:25:49
Local clock offset: 9.38 ms
Remote clock offset: 9.869 ms

# Below is generated by plot.py at 2019-03-26 22:48:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 635.92 Mbit/s
95th percentile per-packet one-way delay: 184.963 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 635.92 Mbit/s
95th percentile per-packet one-way delay: 184.963 ms
Loss rate: 0.92%
```

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

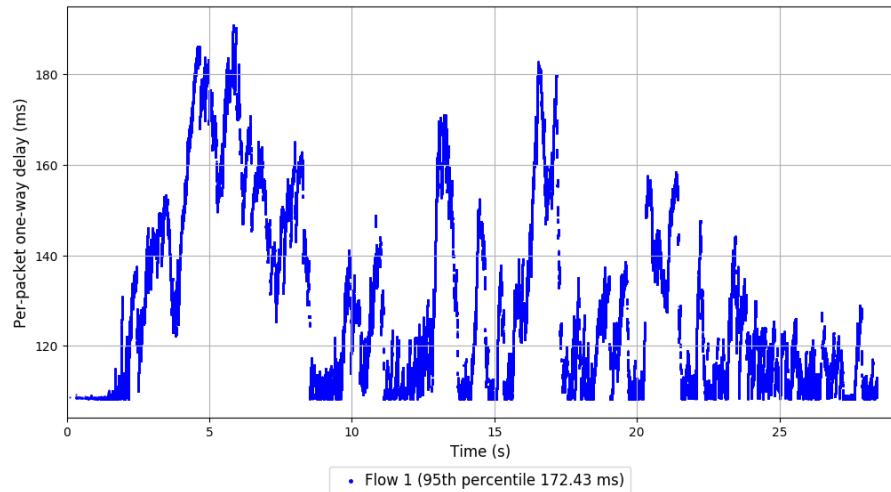
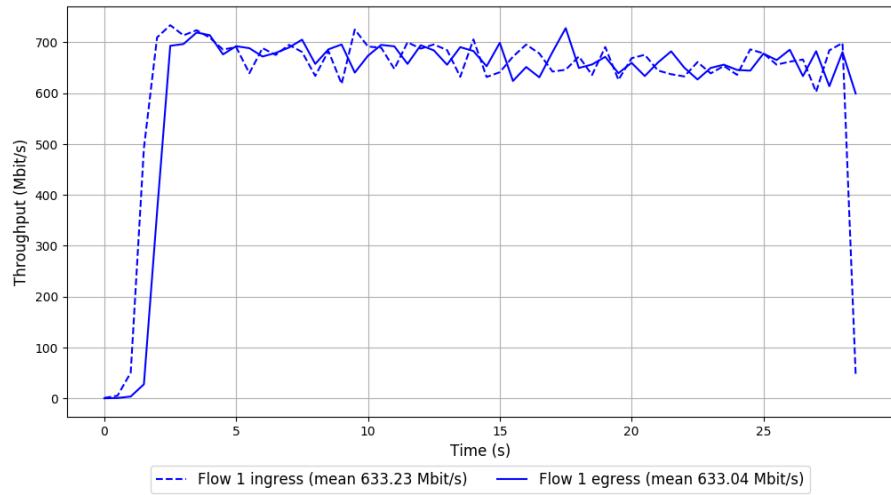


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-03-26 20:58:38
End at: 2019-03-26 20:59:08
Local clock offset: 3.903 ms
Remote clock offset: 4.327 ms

# Below is generated by plot.py at 2019-03-26 22:48:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 633.04 Mbit/s
95th percentile per-packet one-way delay: 172.434 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 633.04 Mbit/s
95th percentile per-packet one-way delay: 172.434 ms
Loss rate: 0.80%
```

Run 5: Report of Indigo-MusesT — Data Link

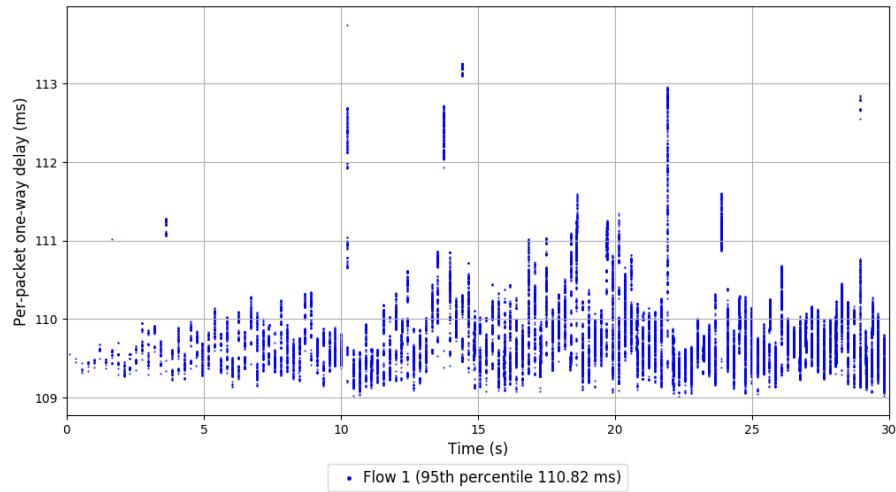
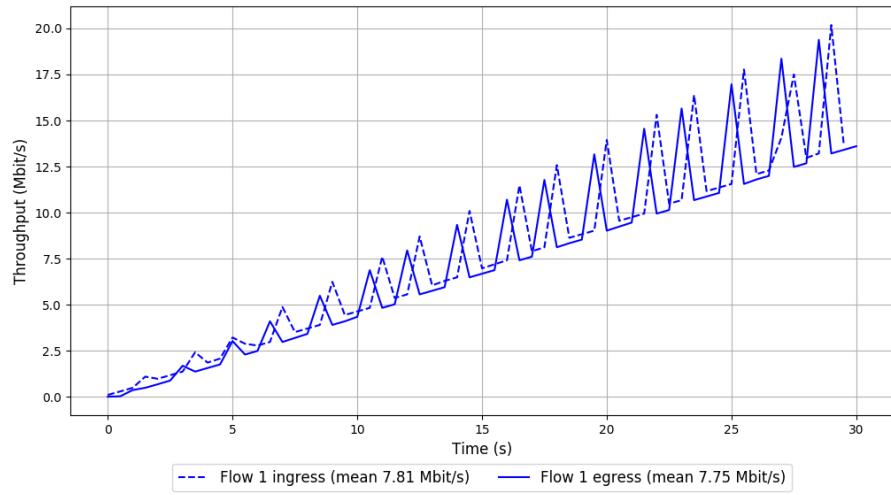


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-03-26 18:57:57
End at: 2019-03-26 18:58:27
Local clock offset: 9.349 ms
Remote clock offset: 10.161 ms

# Below is generated by plot.py at 2019-03-26 22:48:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.75 Mbit/s
95th percentile per-packet one-way delay: 110.823 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 7.75 Mbit/s
95th percentile per-packet one-way delay: 110.823 ms
Loss rate: 1.47%
```

Run 1: Report of LEDBAT — Data Link

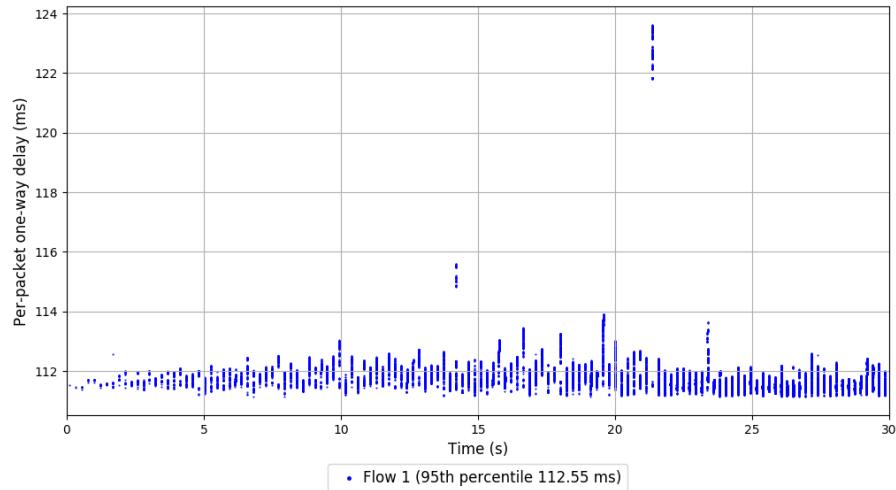
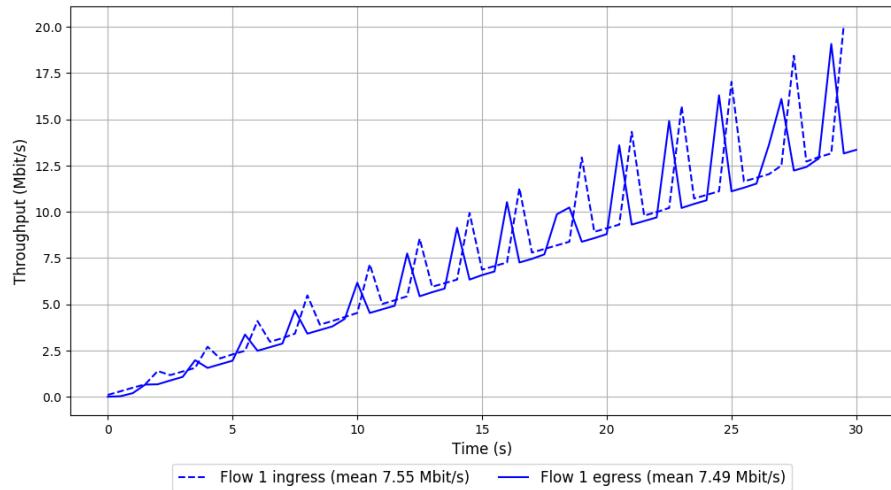


Run 2: Statistics of LEDBAT

```
Start at: 2019-03-26 19:30:15
End at: 2019-03-26 19:30:45
Local clock offset: 19.233 ms
Remote clock offset: 20.241 ms

# Below is generated by plot.py at 2019-03-26 22:48:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.49 Mbit/s
95th percentile per-packet one-way delay: 112.550 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 7.49 Mbit/s
95th percentile per-packet one-way delay: 112.550 ms
Loss rate: 1.49%
```

## Run 2: Report of LEDBAT — Data Link

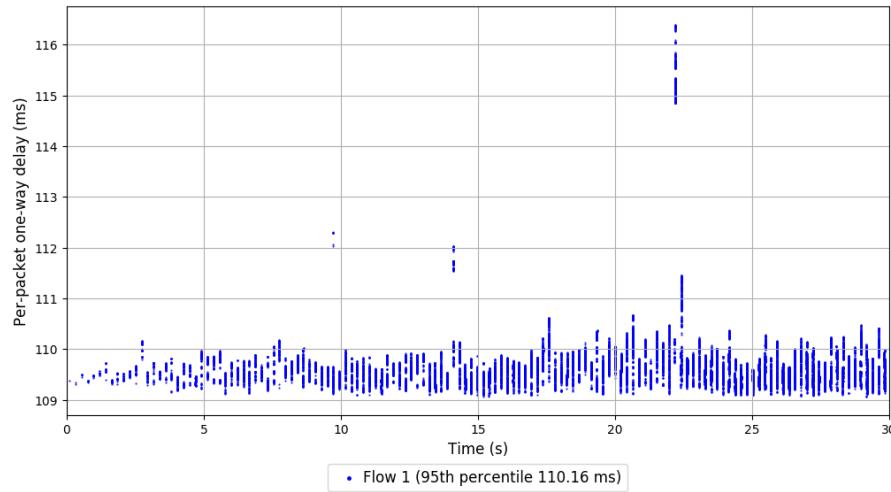
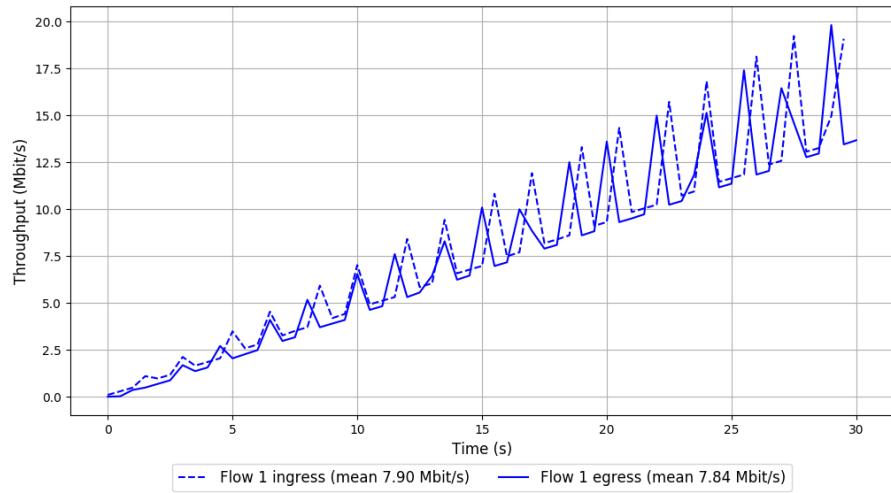


Run 3: Statistics of LEDBAT

```
Start at: 2019-03-26 20:02:54
End at: 2019-03-26 20:03:24
Local clock offset: 15.574 ms
Remote clock offset: 16.257 ms

# Below is generated by plot.py at 2019-03-26 22:48:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.84 Mbit/s
95th percentile per-packet one-way delay: 110.163 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 7.84 Mbit/s
95th percentile per-packet one-way delay: 110.163 ms
Loss rate: 1.46%
```

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

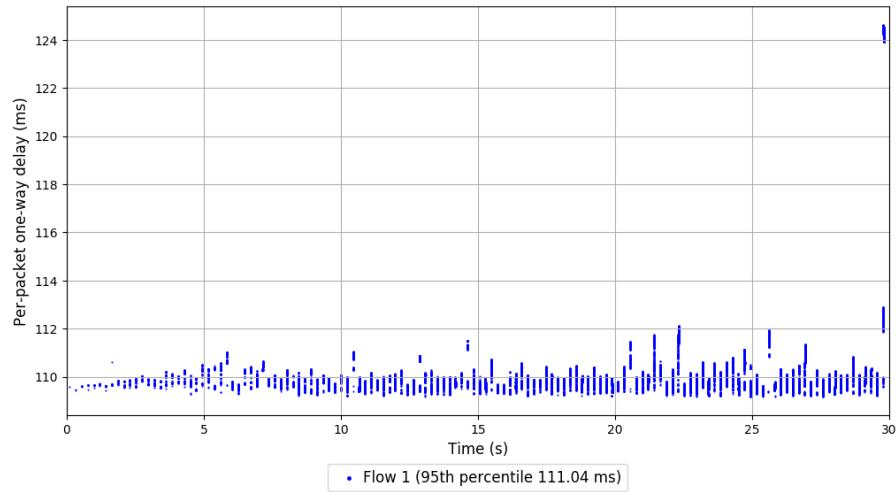
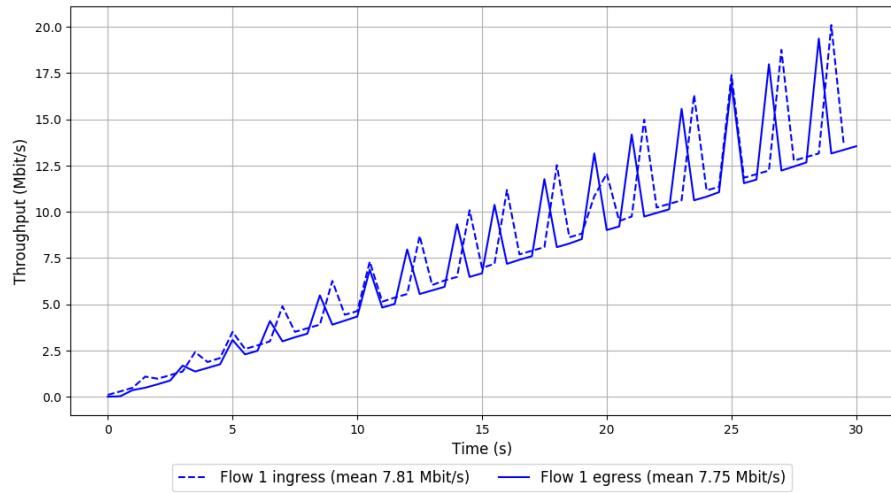


Run 4: Statistics of LEDBAT

```
Start at: 2019-03-26 20:34:56
End at: 2019-03-26 20:35:26
Local clock offset: 5.108 ms
Remote clock offset: 5.405 ms

# Below is generated by plot.py at 2019-03-26 22:48:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.75 Mbit/s
95th percentile per-packet one-way delay: 111.039 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 7.75 Mbit/s
95th percentile per-packet one-way delay: 111.039 ms
Loss rate: 1.47%
```

## Run 4: Report of LEDBAT — Data Link

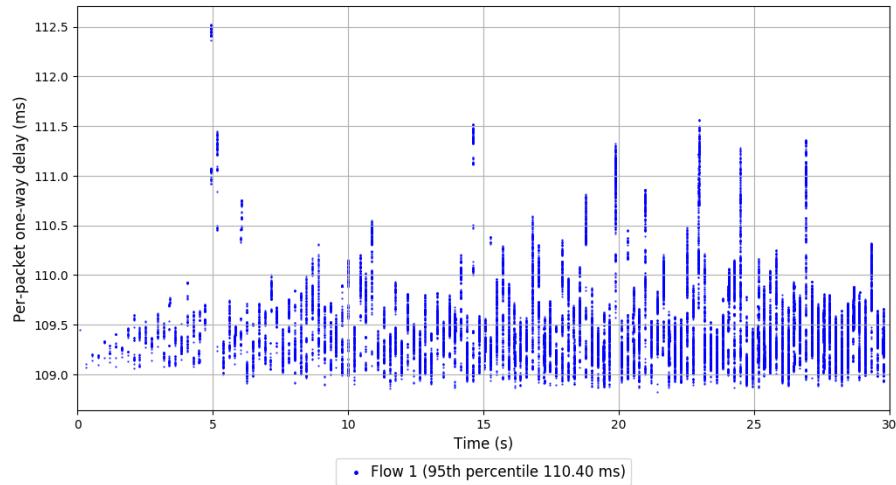
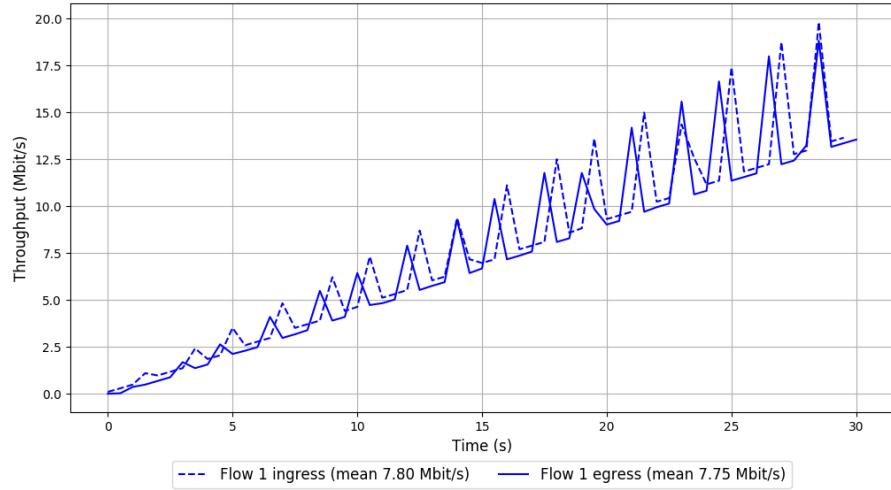


Run 5: Statistics of LEDBAT

```
Start at: 2019-03-26 21:07:48
End at: 2019-03-26 21:08:18
Local clock offset: 2.214 ms
Remote clock offset: 2.686 ms

# Below is generated by plot.py at 2019-03-26 22:48:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.75 Mbit/s
95th percentile per-packet one-way delay: 110.403 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 7.75 Mbit/s
95th percentile per-packet one-way delay: 110.403 ms
Loss rate: 1.47%
```

## Run 5: Report of LEDBAT — Data Link

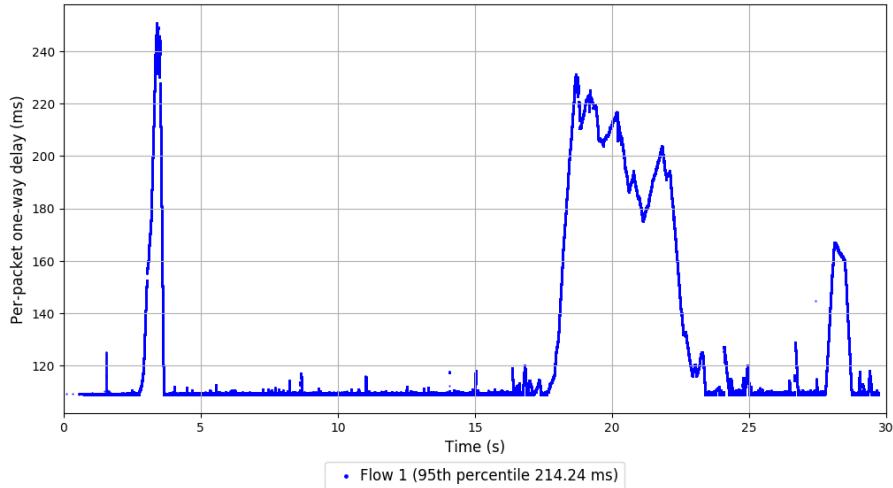
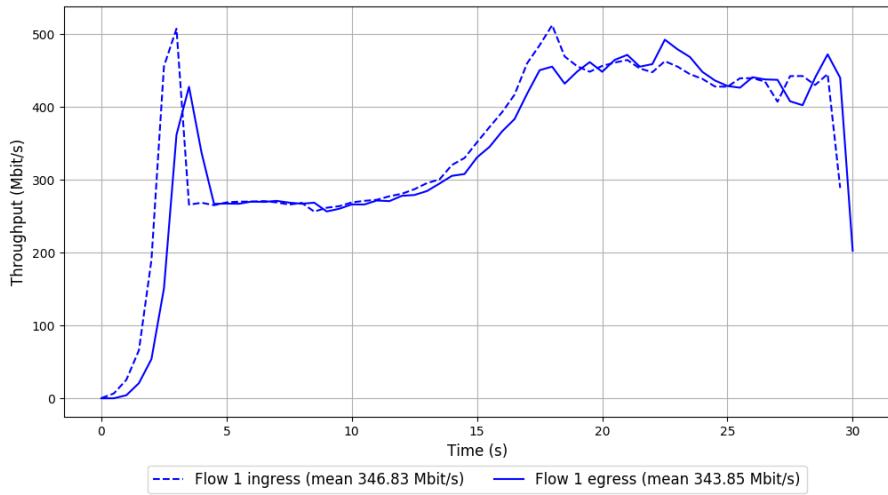


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-03-26 19:15:43
End at: 2019-03-26 19:16:13
Local clock offset: 20.344 ms
Remote clock offset: 21.57 ms

# Below is generated by plot.py at 2019-03-26 22:49:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 343.85 Mbit/s
95th percentile per-packet one-way delay: 214.238 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 343.85 Mbit/s
95th percentile per-packet one-way delay: 214.238 ms
Loss rate: 1.58%
```

Run 1: Report of PCC-Allegro — Data Link

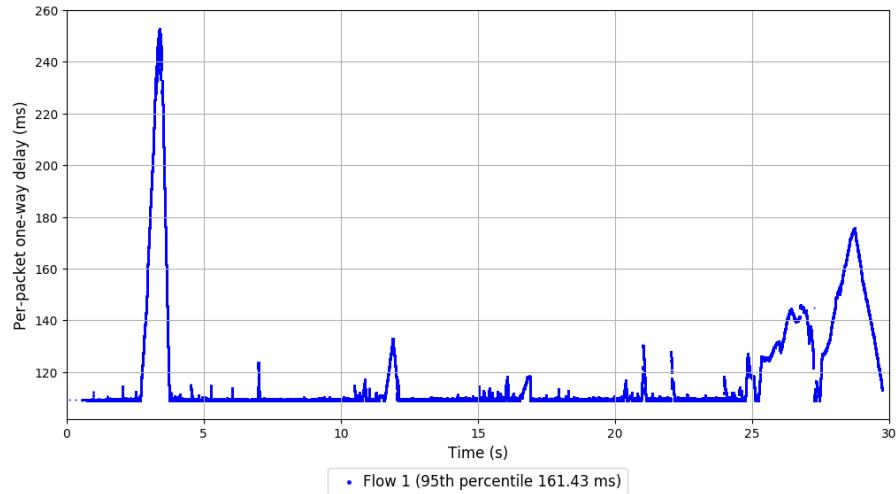
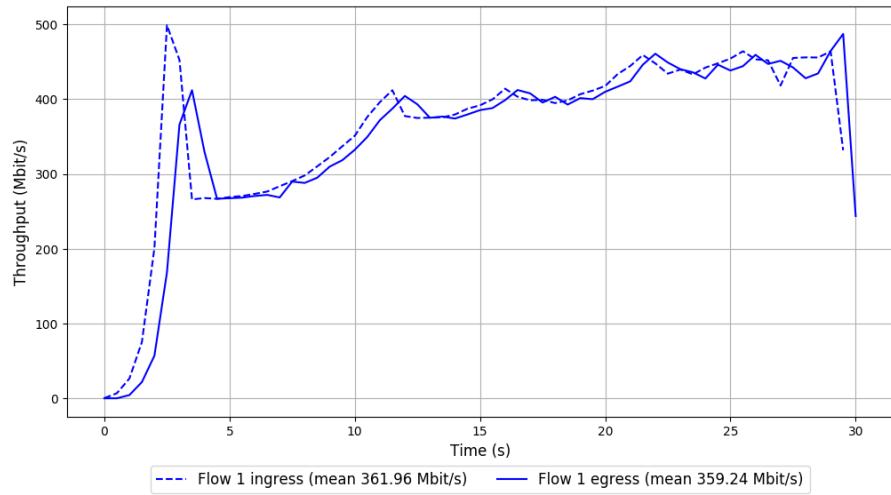


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-03-26 19:48:41
End at: 2019-03-26 19:49:11
Local clock offset: 33.119 ms
Remote clock offset: 35.009 ms

# Below is generated by plot.py at 2019-03-26 22:50:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 359.24 Mbit/s
95th percentile per-packet one-way delay: 161.432 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 359.24 Mbit/s
95th percentile per-packet one-way delay: 161.432 ms
Loss rate: 1.48%
```

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

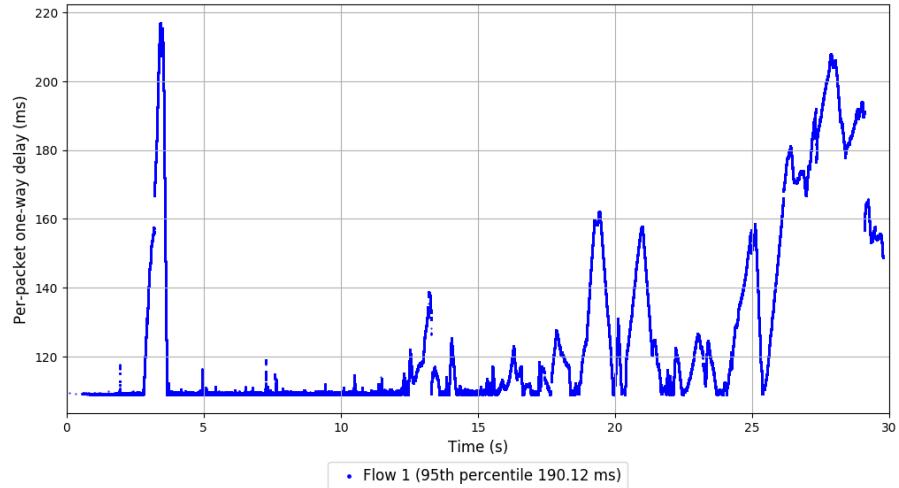
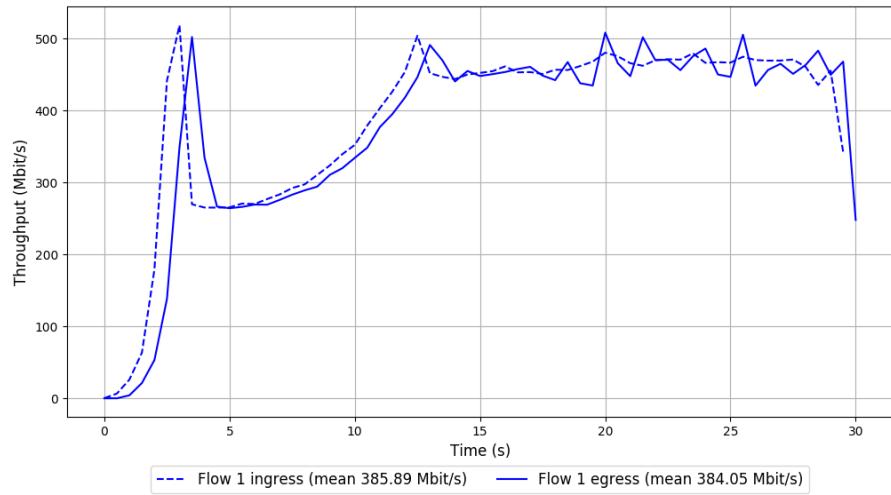


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-03-26 20:20:30
End at: 2019-03-26 20:21:00
Local clock offset: 8.658 ms
Remote clock offset: 9.286 ms

# Below is generated by plot.py at 2019-03-26 22:53:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 384.05 Mbit/s
95th percentile per-packet one-way delay: 190.117 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 384.05 Mbit/s
95th percentile per-packet one-way delay: 190.117 ms
Loss rate: 1.21%
```

Run 3: Report of PCC-Allegro — Data Link

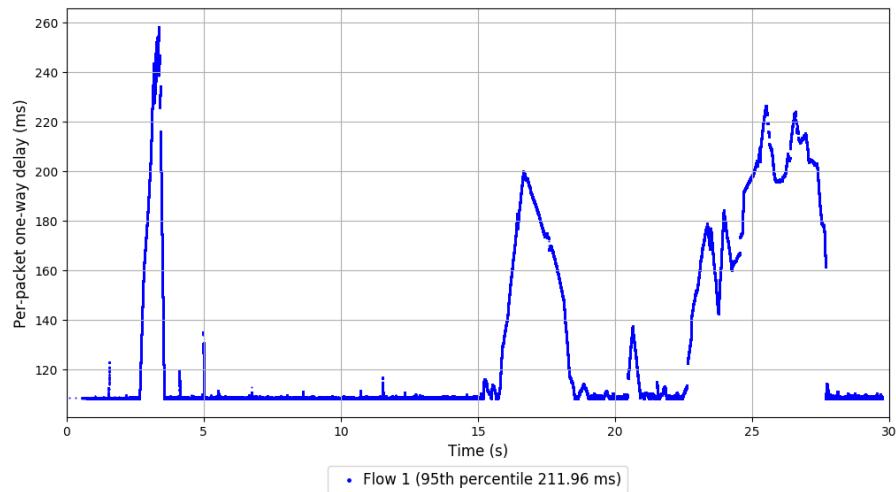
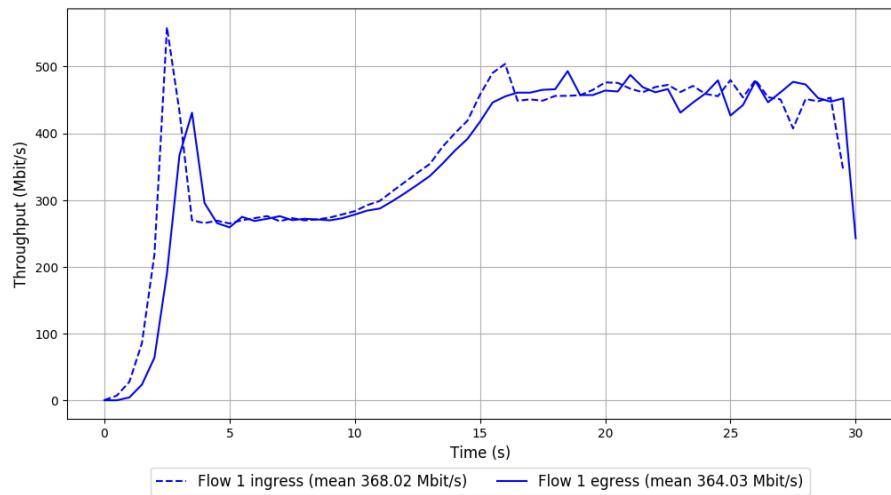


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-03-26 20:53:32
End at: 2019-03-26 20:54:02
Local clock offset: 3.39 ms
Remote clock offset: 3.881 ms

# Below is generated by plot.py at 2019-03-26 22:54:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 364.03 Mbit/s
95th percentile per-packet one-way delay: 211.955 ms
Loss rate: 1.81%
-- Flow 1:
Average throughput: 364.03 Mbit/s
95th percentile per-packet one-way delay: 211.955 ms
Loss rate: 1.81%
```

Run 4: Report of PCC-Allegro — Data Link

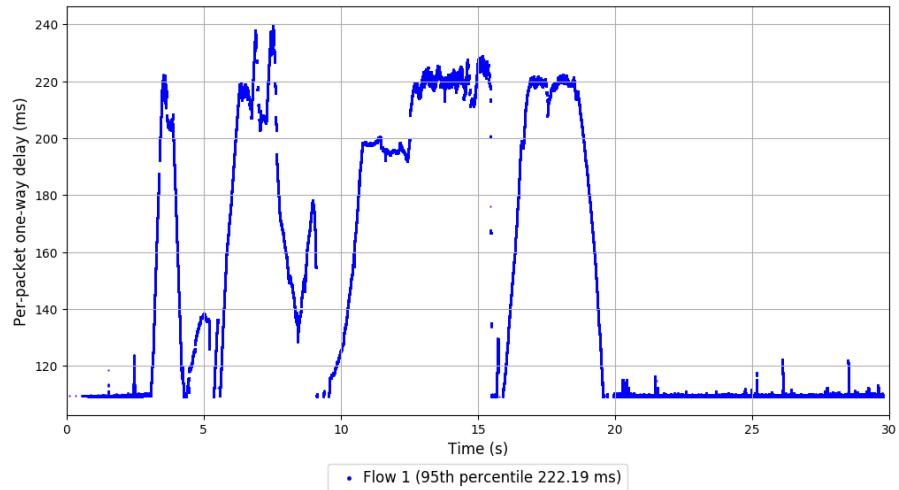
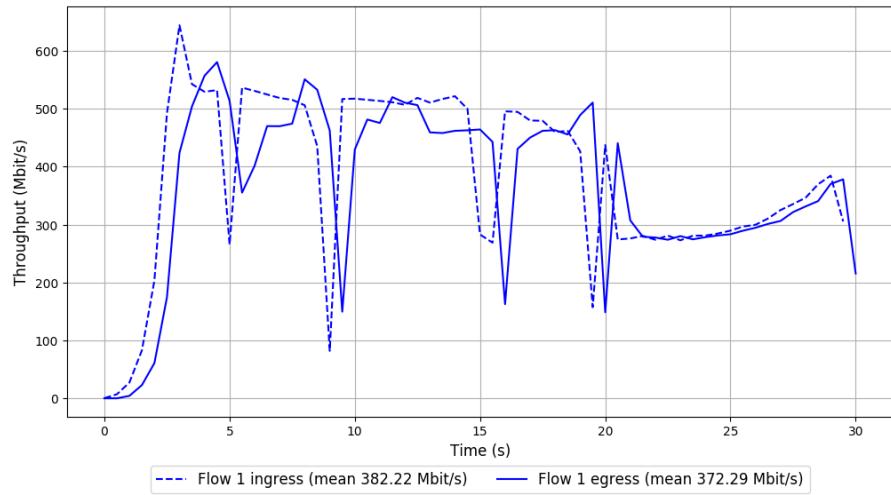


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-03-26 21:25:22
End at: 2019-03-26 21:25:52
Local clock offset: 1.407 ms
Remote clock offset: 1.628 ms

# Below is generated by plot.py at 2019-03-26 23:00:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 372.29 Mbit/s
95th percentile per-packet one-way delay: 222.188 ms
Loss rate: 3.32%
-- Flow 1:
Average throughput: 372.29 Mbit/s
95th percentile per-packet one-way delay: 222.188 ms
Loss rate: 3.32%
```

Run 5: Report of PCC-Allegro — Data Link

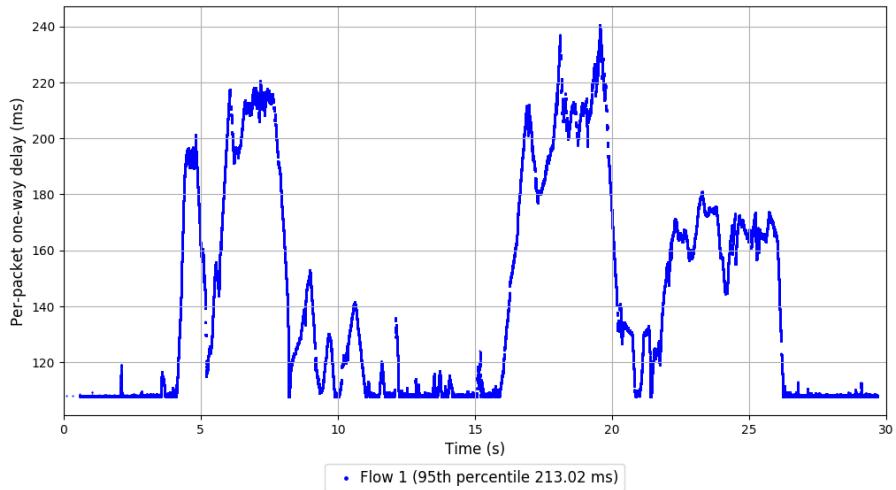
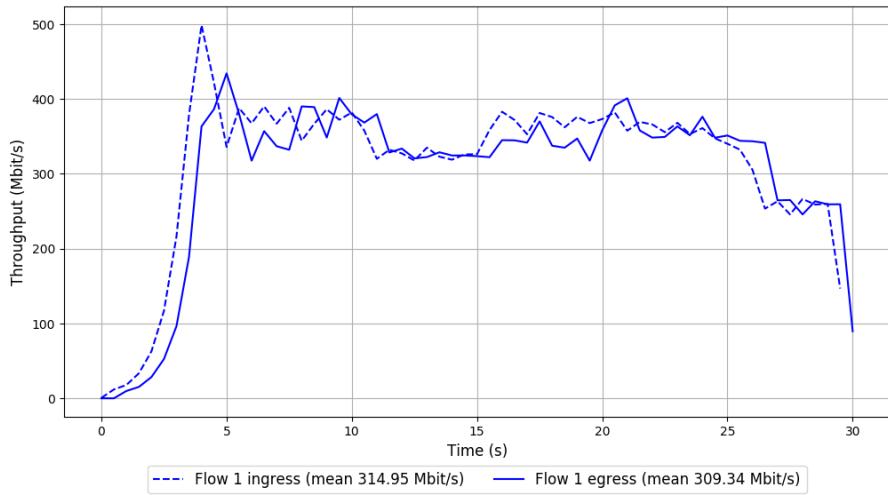


Run 1: Statistics of PCC-Expr

```
Start at: 2019-03-26 18:47:28
End at: 2019-03-26 18:47:58
Local clock offset: 3.889 ms
Remote clock offset: 4.733 ms

# Below is generated by plot.py at 2019-03-26 23:00:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 309.34 Mbit/s
95th percentile per-packet one-way delay: 213.019 ms
Loss rate: 2.50%
-- Flow 1:
Average throughput: 309.34 Mbit/s
95th percentile per-packet one-way delay: 213.019 ms
Loss rate: 2.50%
```

Run 1: Report of PCC-Expr — Data Link

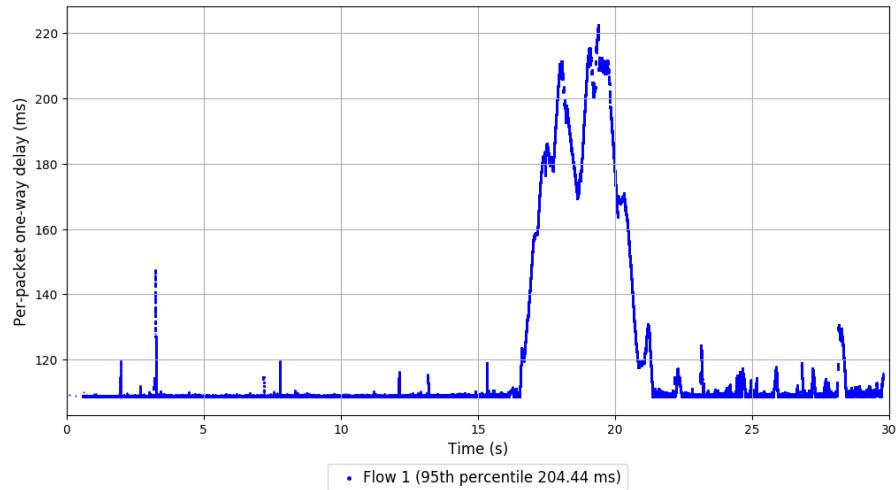
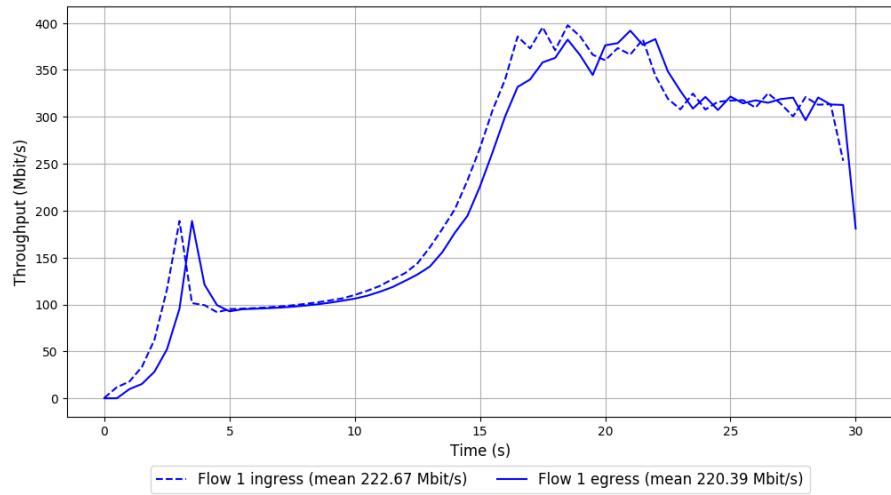


Run 2: Statistics of PCC-Expr

```
Start at: 2019-03-26 19:18:30
End at: 2019-03-26 19:19:00
Local clock offset: 23.936 ms
Remote clock offset: 25.713 ms

# Below is generated by plot.py at 2019-03-26 23:00:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 220.39 Mbit/s
95th percentile per-packet one-way delay: 204.436 ms
Loss rate: 1.75%
-- Flow 1:
Average throughput: 220.39 Mbit/s
95th percentile per-packet one-way delay: 204.436 ms
Loss rate: 1.75%
```

Run 2: Report of PCC-Expr — Data Link

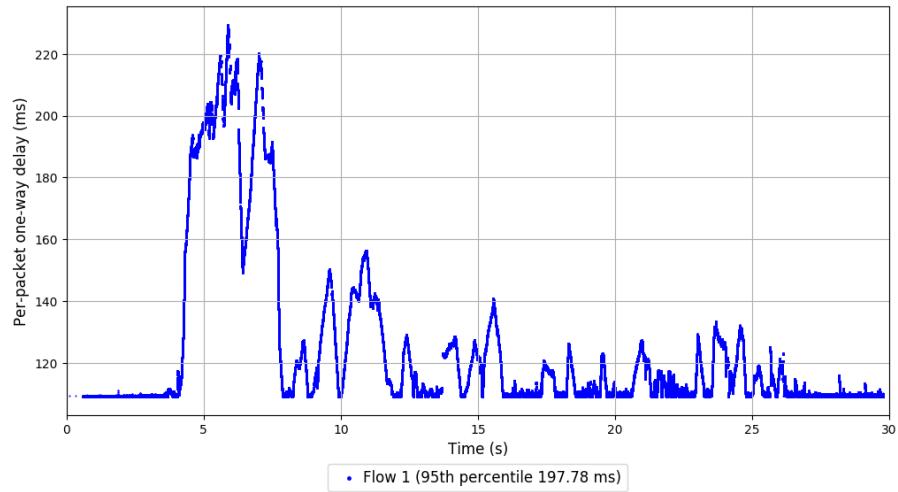
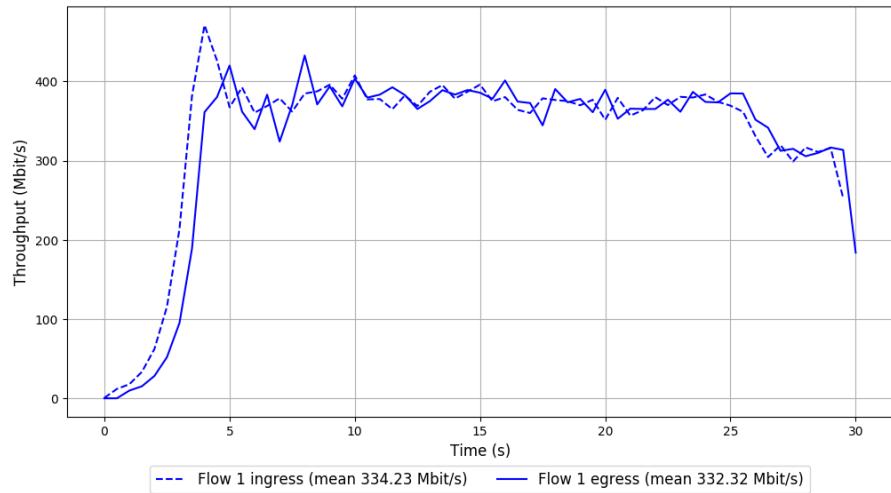


Run 3: Statistics of PCC-Expr

```
Start at: 2019-03-26 19:51:58
End at: 2019-03-26 19:52:28
Local clock offset: 36.715 ms
Remote clock offset: 38.728 ms

# Below is generated by plot.py at 2019-03-26 23:00:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 332.32 Mbit/s
95th percentile per-packet one-way delay: 197.776 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 332.32 Mbit/s
95th percentile per-packet one-way delay: 197.776 ms
Loss rate: 1.30%
```

Run 3: Report of PCC-Expr — Data Link

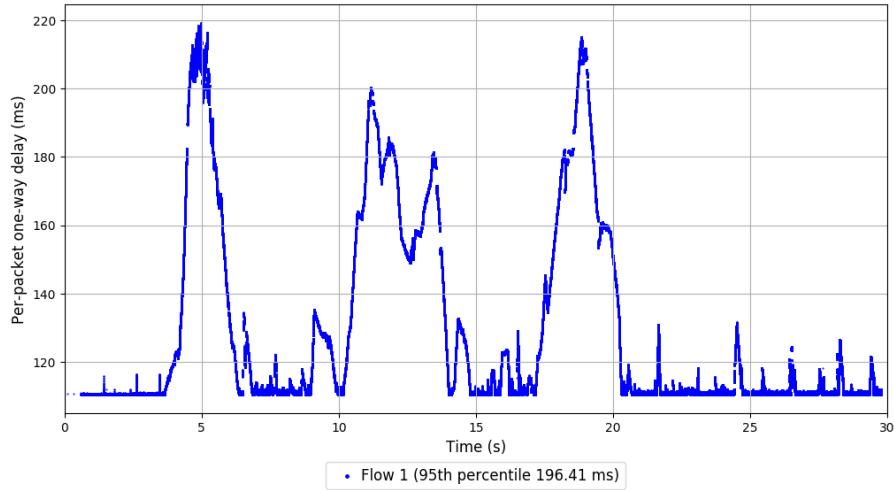
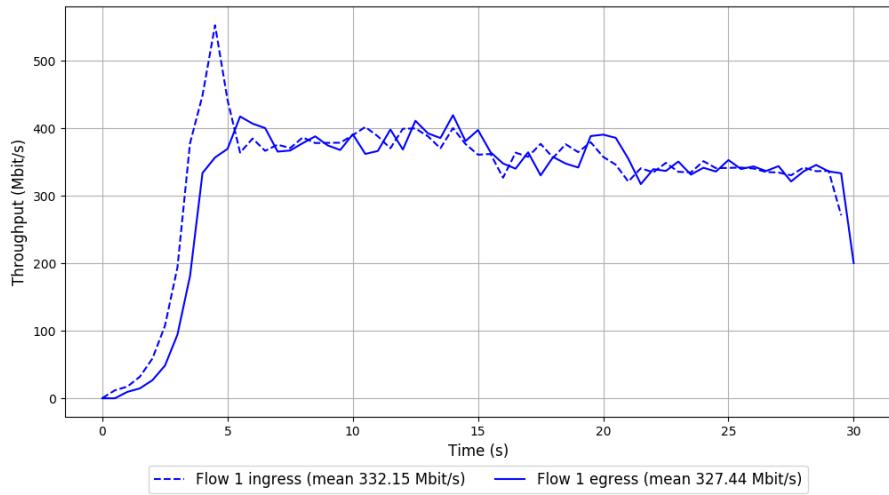


Run 4: Statistics of PCC-Expr

```
Start at: 2019-03-26 20:23:37
End at: 2019-03-26 20:24:07
Local clock offset: 9.177 ms
Remote clock offset: 9.57 ms

# Below is generated by plot.py at 2019-03-26 23:01:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 327.44 Mbit/s
95th percentile per-packet one-way delay: 196.407 ms
Loss rate: 2.15%
-- Flow 1:
Average throughput: 327.44 Mbit/s
95th percentile per-packet one-way delay: 196.407 ms
Loss rate: 2.15%
```

Run 4: Report of PCC-Expr — Data Link

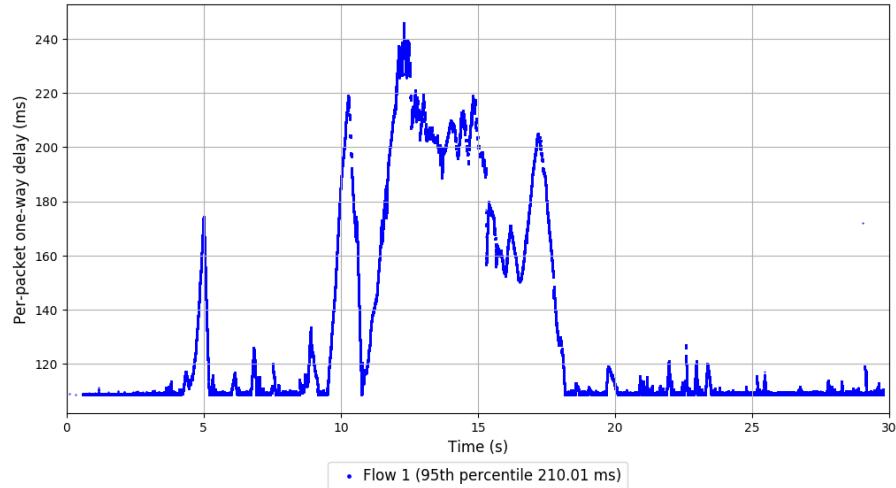
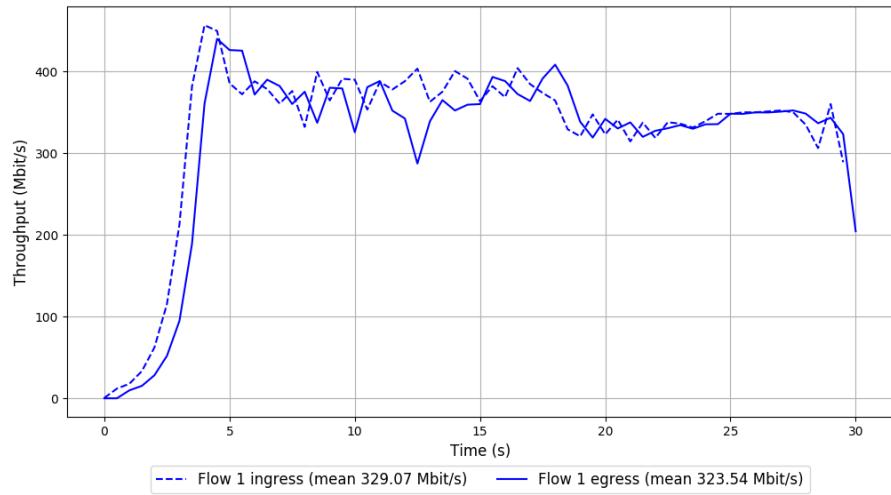


Run 5: Statistics of PCC-Expr

```
Start at: 2019-03-26 20:56:51
End at: 2019-03-26 20:57:21
Local clock offset: 3.389 ms
Remote clock offset: 4.191 ms

# Below is generated by plot.py at 2019-03-26 23:02:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 323.54 Mbit/s
95th percentile per-packet one-way delay: 210.006 ms
Loss rate: 2.40%
-- Flow 1:
Average throughput: 323.54 Mbit/s
95th percentile per-packet one-way delay: 210.006 ms
Loss rate: 2.40%
```

Run 5: Report of PCC-Expr — Data Link

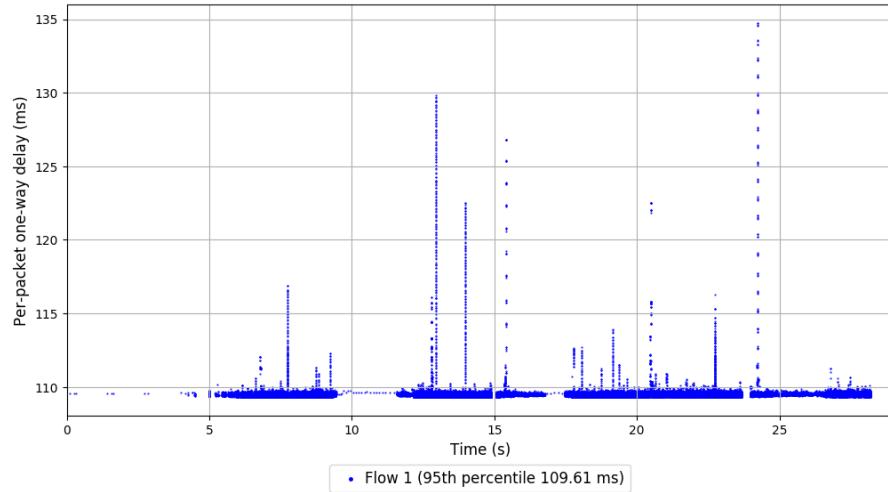
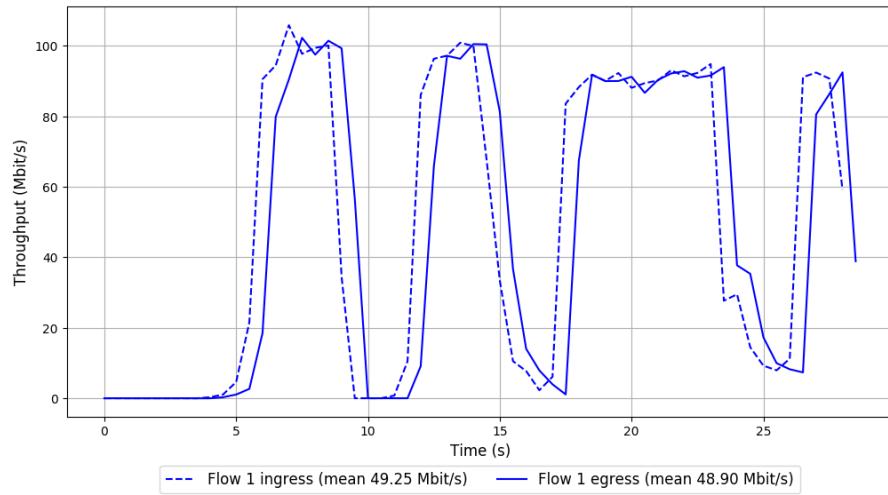


```
Run 1: Statistics of QUIC Cubic

Start at: 2019-03-26 18:50:39
End at: 2019-03-26 18:51:09
Local clock offset: 5.802 ms
Remote clock offset: 5.923 ms

# Below is generated by plot.py at 2019-03-26 23:02:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 48.90 Mbit/s
95th percentile per-packet one-way delay: 109.611 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 48.90 Mbit/s
95th percentile per-packet one-way delay: 109.611 ms
Loss rate: 1.46%
```

Run 1: Report of QUIC Cubic — Data Link

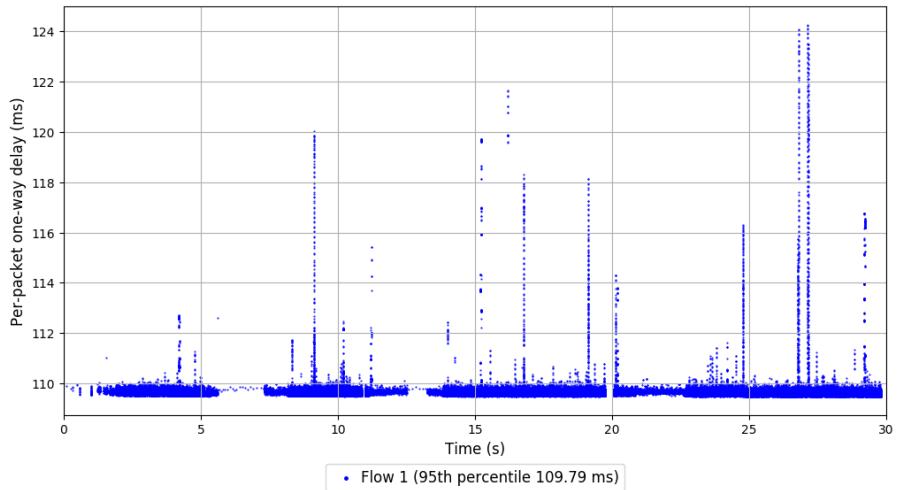
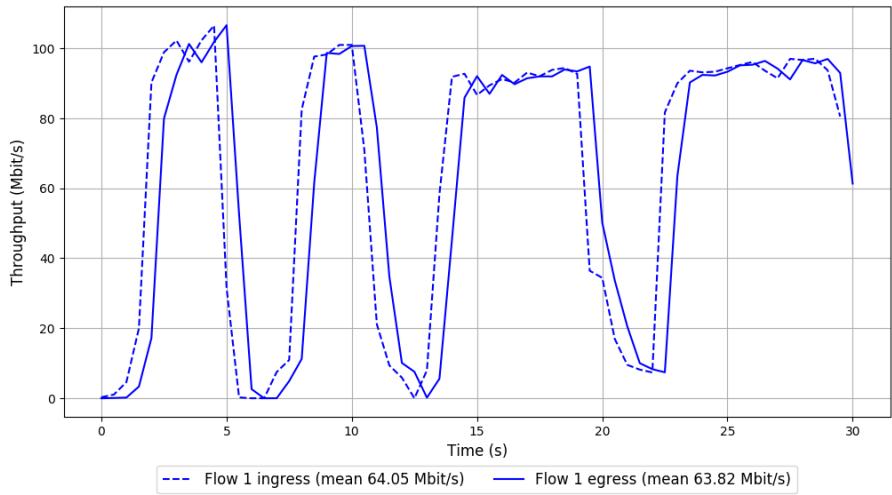


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-03-26 19:22:13
End at: 2019-03-26 19:22:43
Local clock offset: 22.239 ms
Remote clock offset: 22.891 ms

# Below is generated by plot.py at 2019-03-26 23:02:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.82 Mbit/s
95th percentile per-packet one-way delay: 109.791 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 63.82 Mbit/s
95th percentile per-packet one-way delay: 109.791 ms
Loss rate: 1.08%
```

Run 2: Report of QUIC Cubic — Data Link

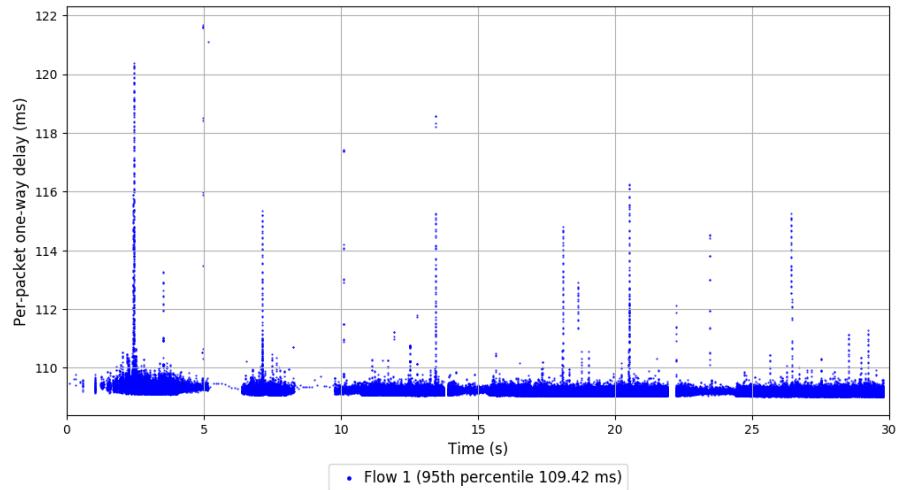
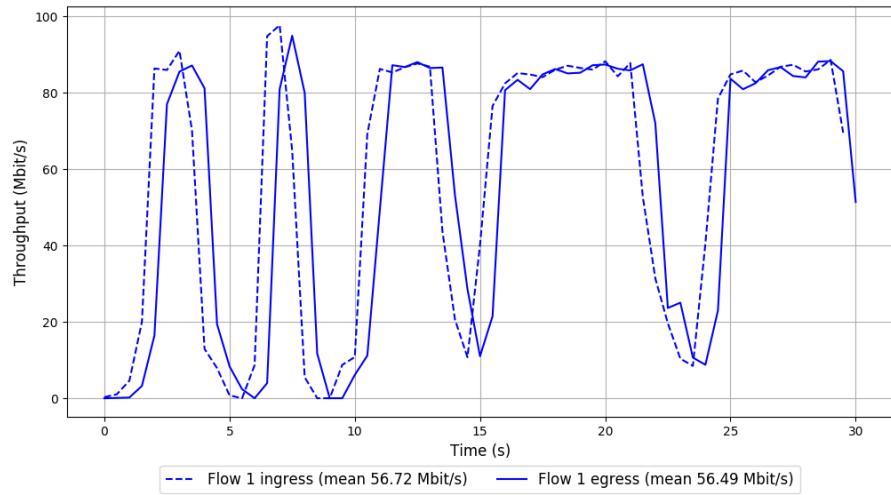


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-03-26 19:55:30
End at: 2019-03-26 19:56:00
Local clock offset: 32.87 ms
Remote clock offset: 33.593 ms

# Below is generated by plot.py at 2019-03-26 23:02:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.49 Mbit/s
95th percentile per-packet one-way delay: 109.416 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 56.49 Mbit/s
95th percentile per-packet one-way delay: 109.416 ms
Loss rate: 1.12%
```

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

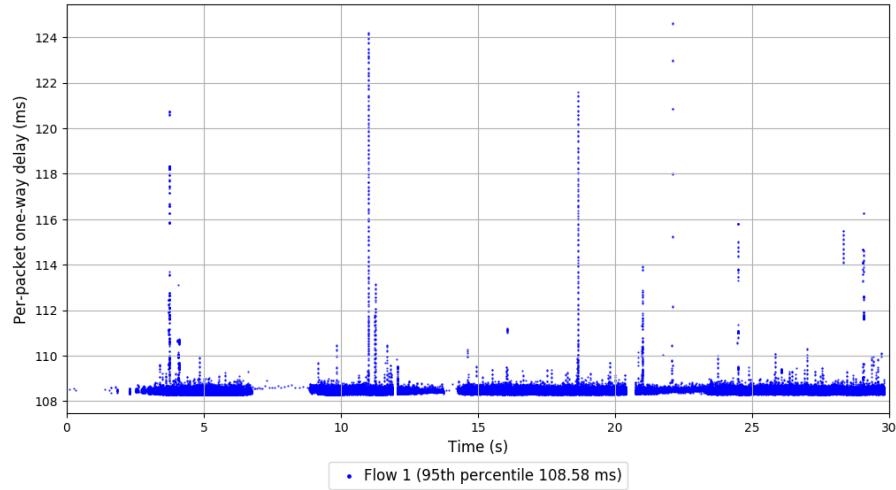
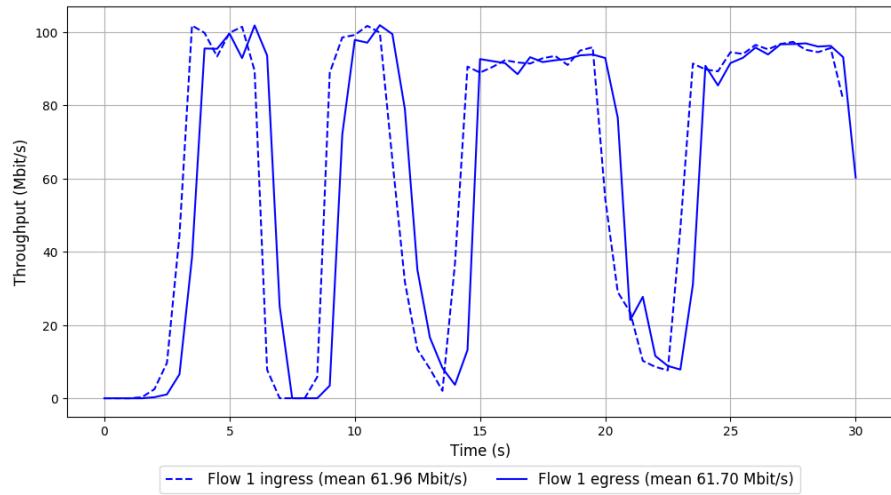


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-03-26 20:27:11
End at: 2019-03-26 20:27:41
Local clock offset: 9.737 ms
Remote clock offset: 10.195 ms

# Below is generated by plot.py at 2019-03-26 23:02:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.70 Mbit/s
95th percentile per-packet one-way delay: 108.585 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 61.70 Mbit/s
95th percentile per-packet one-way delay: 108.585 ms
Loss rate: 1.14%
```

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

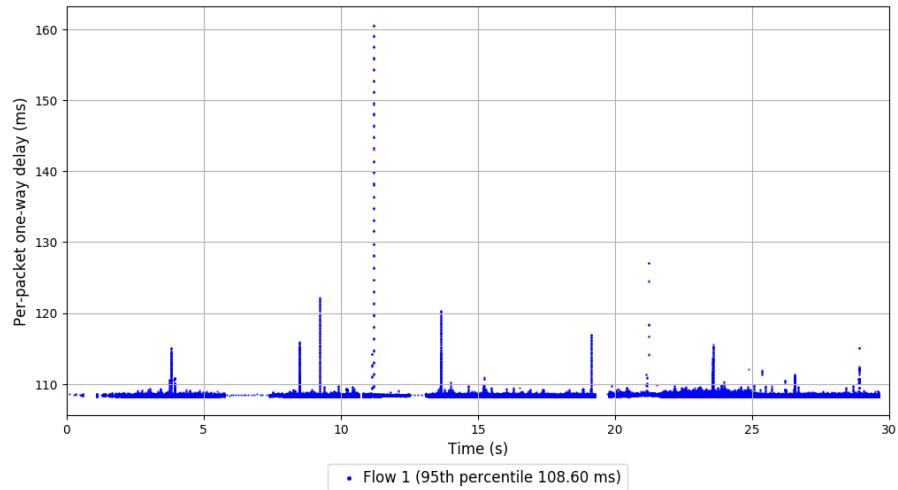
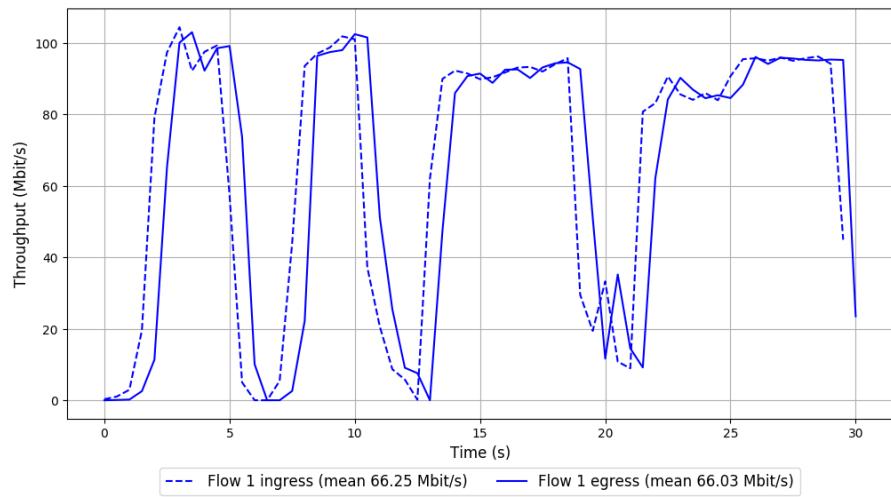


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-03-26 21:00:22
End at: 2019-03-26 21:00:52
Local clock offset: 4.071 ms
Remote clock offset: 4.518 ms

# Below is generated by plot.py at 2019-03-26 23:02:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.03 Mbit/s
95th percentile per-packet one-way delay: 108.601 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 66.03 Mbit/s
95th percentile per-packet one-way delay: 108.601 ms
Loss rate: 1.07%
```

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

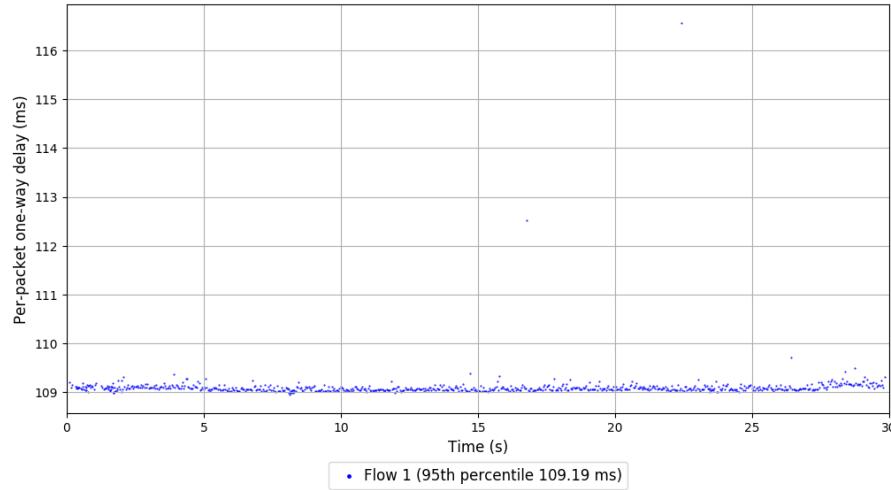
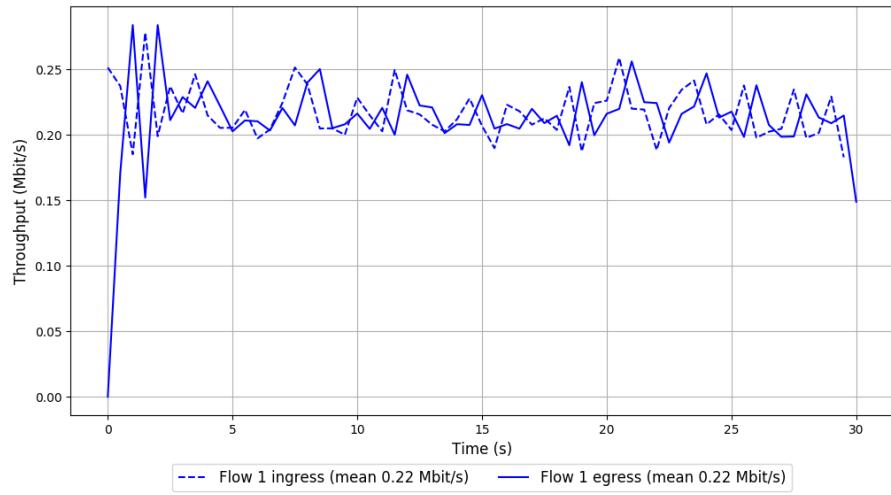


Run 1: Statistics of SCReAM

```
Start at: 2019-03-26 19:08:06
End at: 2019-03-26 19:08:36
Local clock offset: 12.586 ms
Remote clock offset: 13.639 ms

# Below is generated by plot.py at 2019-03-26 23:02:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.193 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.193 ms
Loss rate: 0.64%
```

Run 1: Report of SCReAM — Data Link

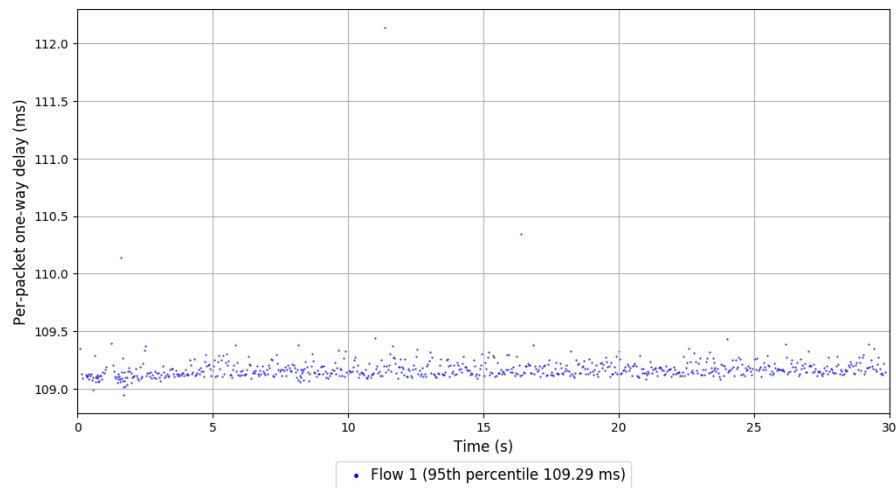
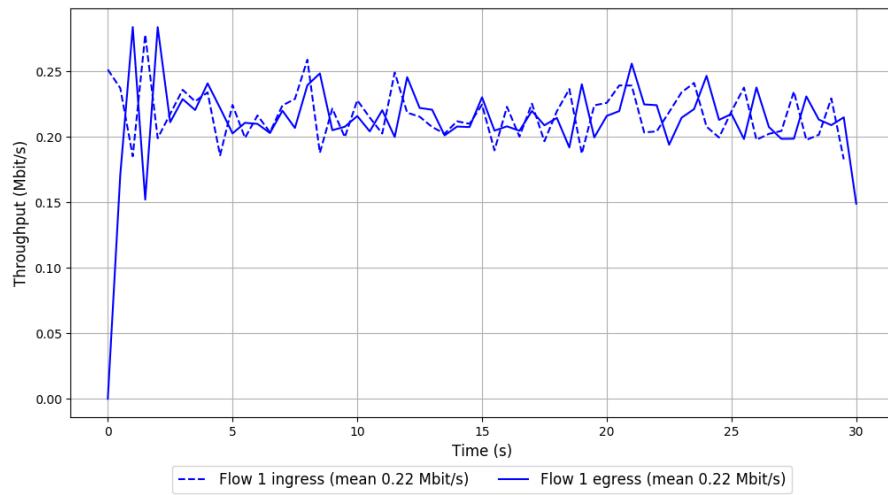


Run 2: Statistics of SCReAM

```
Start at: 2019-03-26 19:40:41
End at: 2019-03-26 19:41:11
Local clock offset: 25.373 ms
Remote clock offset: 27.009 ms

# Below is generated by plot.py at 2019-03-26 23:02:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.292 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.292 ms
Loss rate: 0.64%
```

Run 2: Report of SCReAM — Data Link

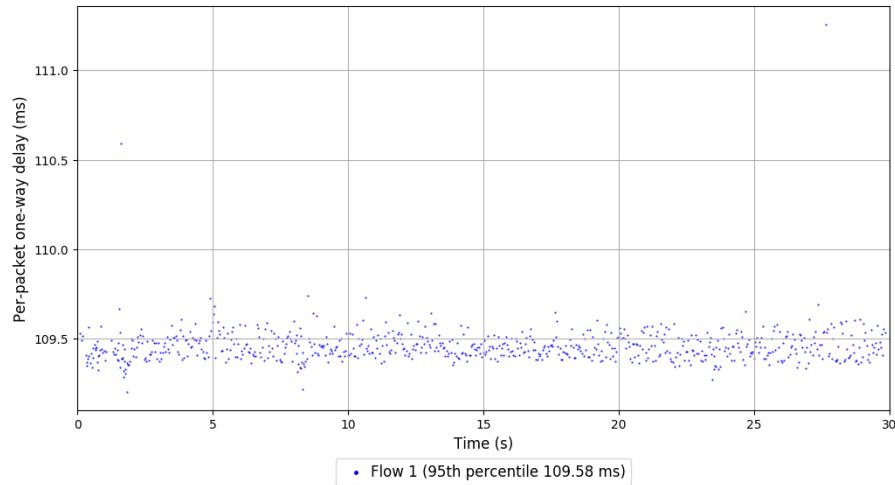
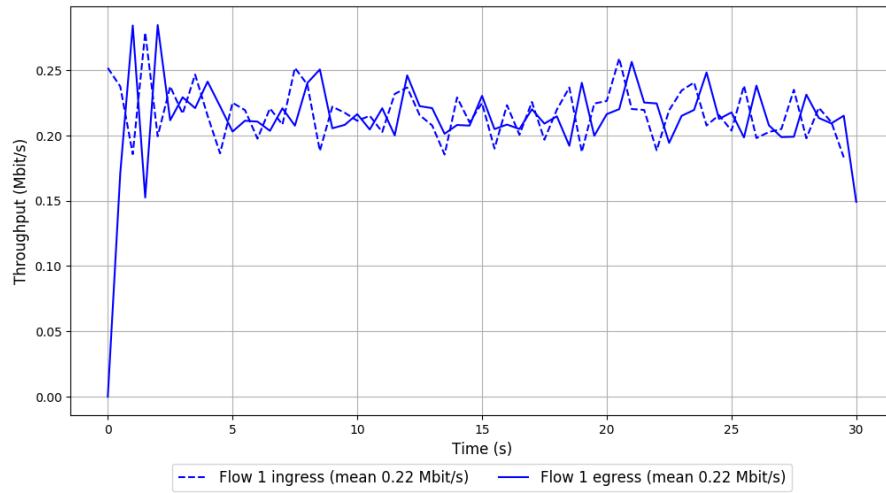


Run 3: Statistics of SCReAM

```
Start at: 2019-03-26 20:12:55
End at: 2019-03-26 20:13:25
Local clock offset: 9.175 ms
Remote clock offset: 9.656 ms

# Below is generated by plot.py at 2019-03-26 23:02:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.582 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.582 ms
Loss rate: 0.64%
```

Run 3: Report of SCReAM — Data Link

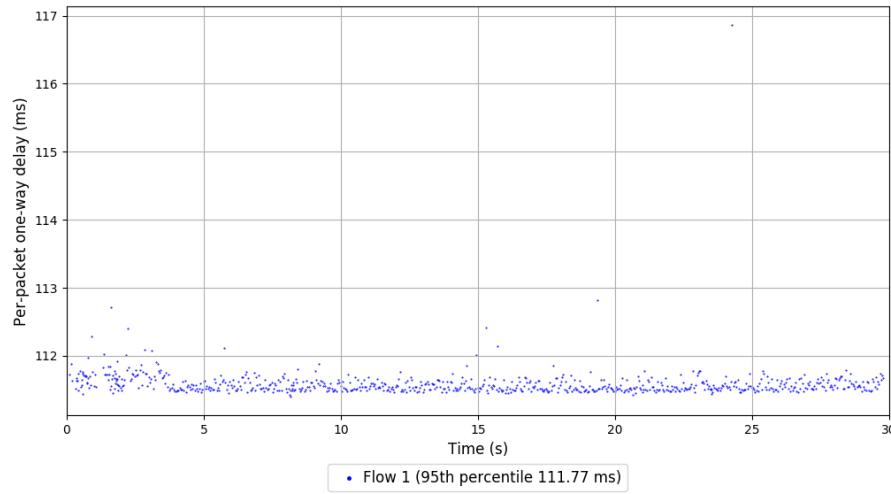
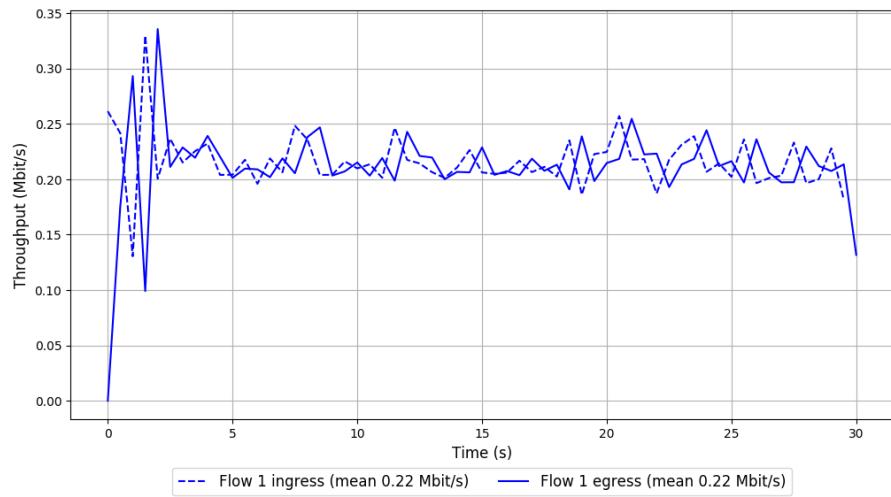


Run 4: Statistics of SCReAM

```
Start at: 2019-03-26 20:45:18
End at: 2019-03-26 20:45:48
Local clock offset: 3.347 ms
Remote clock offset: 3.607 ms

# Below is generated by plot.py at 2019-03-26 23:02:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.770 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.770 ms
Loss rate: 0.76%
```

## Run 4: Report of SCReAM — Data Link

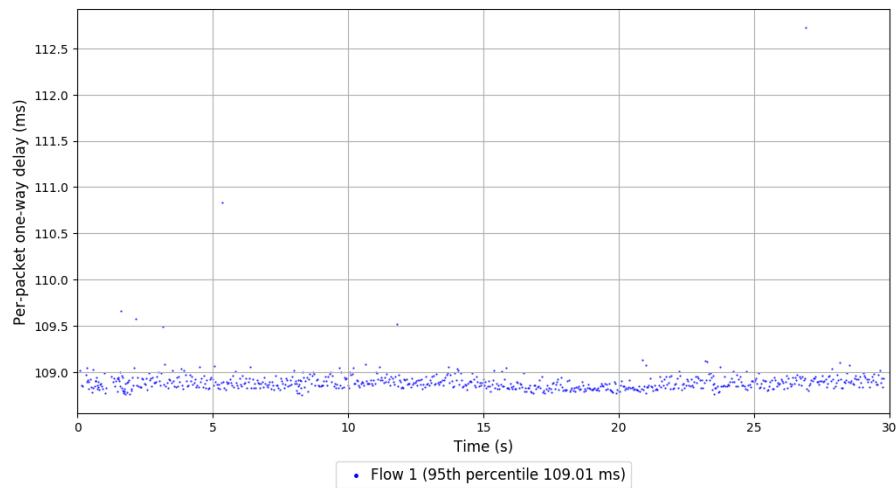
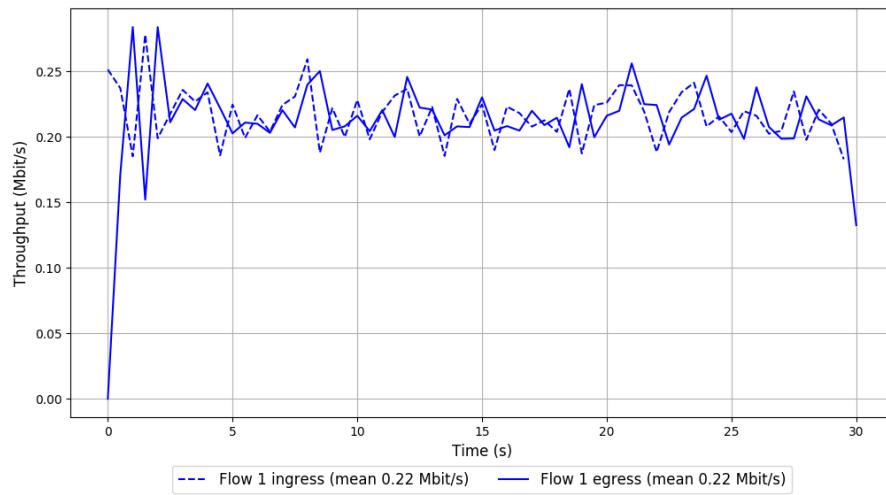


Run 5: Statistics of SCReAM

```
Start at: 2019-03-26 21:17:50
End at: 2019-03-26 21:18:20
Local clock offset: 0.682 ms
Remote clock offset: 1.619 ms

# Below is generated by plot.py at 2019-03-26 23:02:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.007 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.007 ms
Loss rate: 0.77%
```

Run 5: Report of SCReAM — Data Link

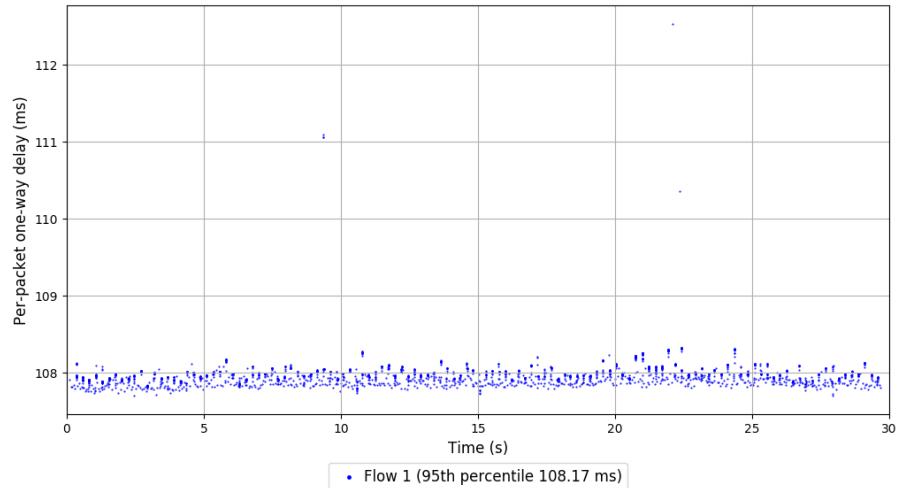
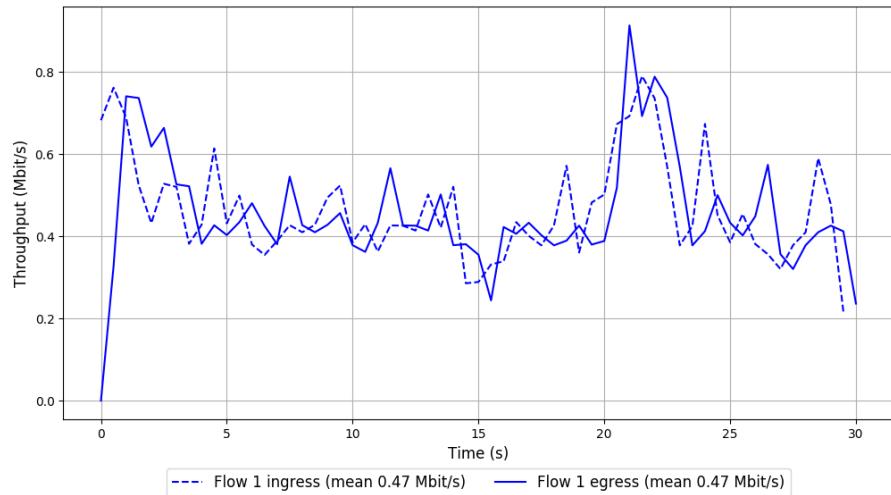


Run 1: Statistics of Sprout

```
Start at: 2019-03-26 19:00:39
End at: 2019-03-26 19:01:09
Local clock offset: 12.868 ms
Remote clock offset: 14.44 ms

# Below is generated by plot.py at 2019-03-26 23:02:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 108.171 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 108.171 ms
Loss rate: 0.76%
```

## Run 1: Report of Sprout — Data Link

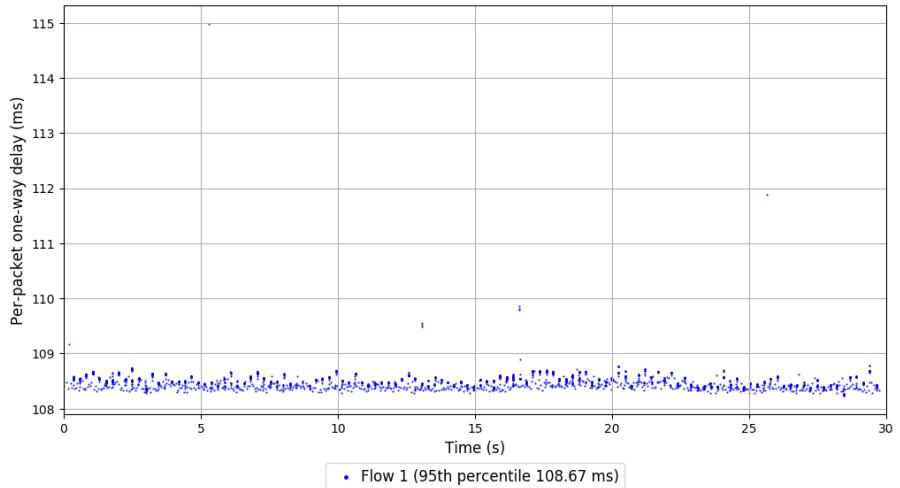
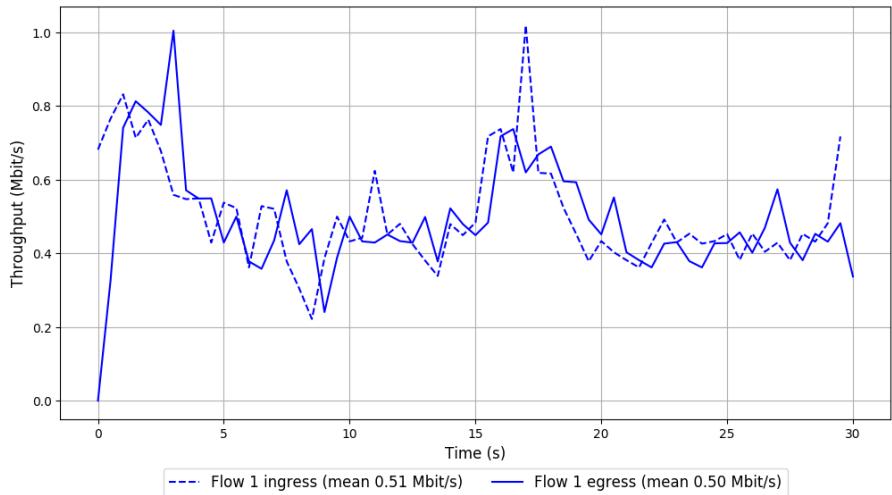


Run 2: Statistics of Sprout

```
Start at: 2019-03-26 19:32:57
End at: 2019-03-26 19:33:27
Local clock offset: 20.229 ms
Remote clock offset: 21.43 ms

# Below is generated by plot.py at 2019-03-26 23:02:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 108.670 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 108.670 ms
Loss rate: 1.27%
```

## Run 2: Report of Sprout — Data Link

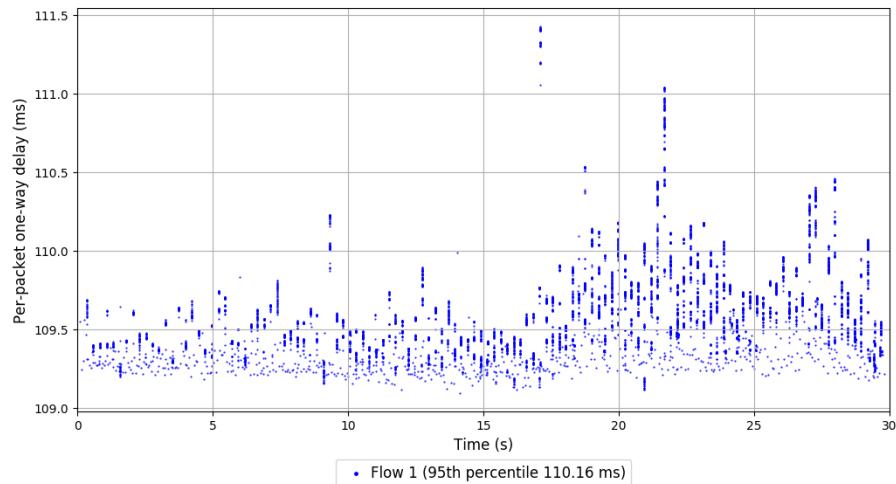
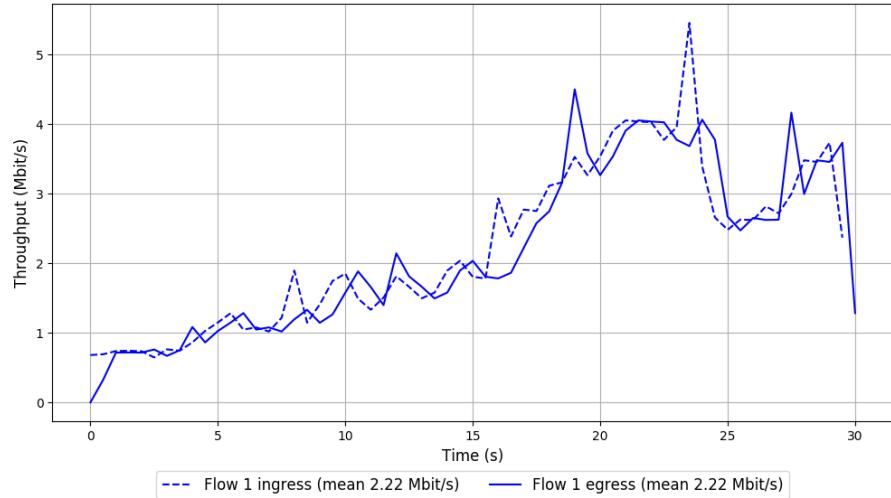


Run 3: Statistics of Sprout

```
Start at: 2019-03-26 20:05:32
End at: 2019-03-26 20:06:02
Local clock offset: 12.449 ms
Remote clock offset: 13.354 ms

# Below is generated by plot.py at 2019-03-26 23:02:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 110.158 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 110.158 ms
Loss rate: 0.82%
```

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

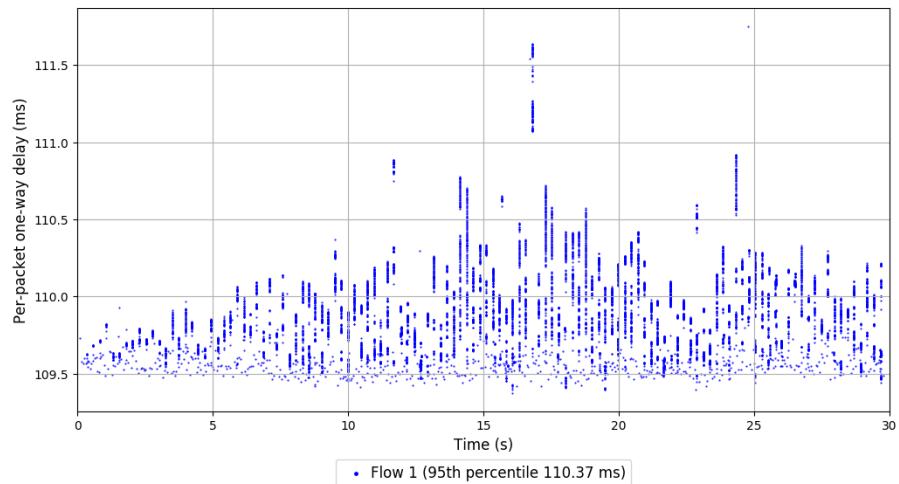
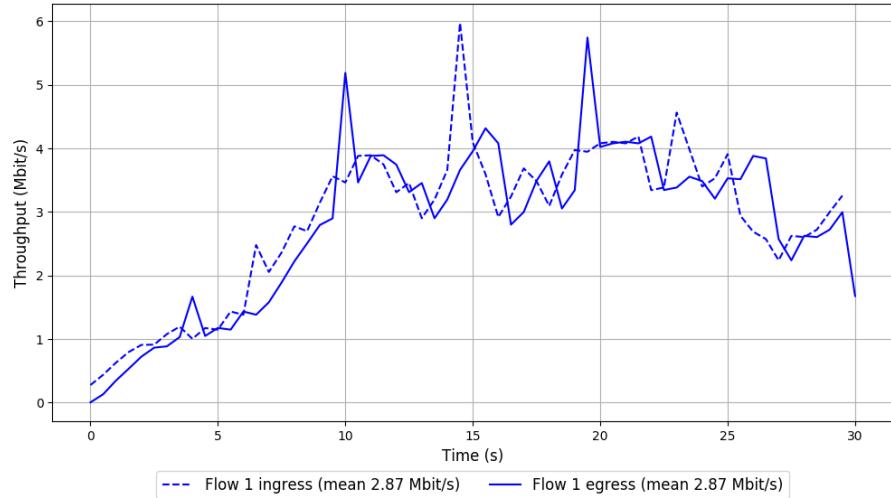


Run 4: Statistics of Sprout

```
Start at: 2019-03-26 20:37:37
End at: 2019-03-26 20:38:07
Local clock offset: 4.259 ms
Remote clock offset: 4.543 ms

# Below is generated by plot.py at 2019-03-26 23:02:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.87 Mbit/s
95th percentile per-packet one-way delay: 110.372 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 2.87 Mbit/s
95th percentile per-packet one-way delay: 110.372 ms
Loss rate: 0.92%
```

## Run 4: Report of Sprout — Data Link

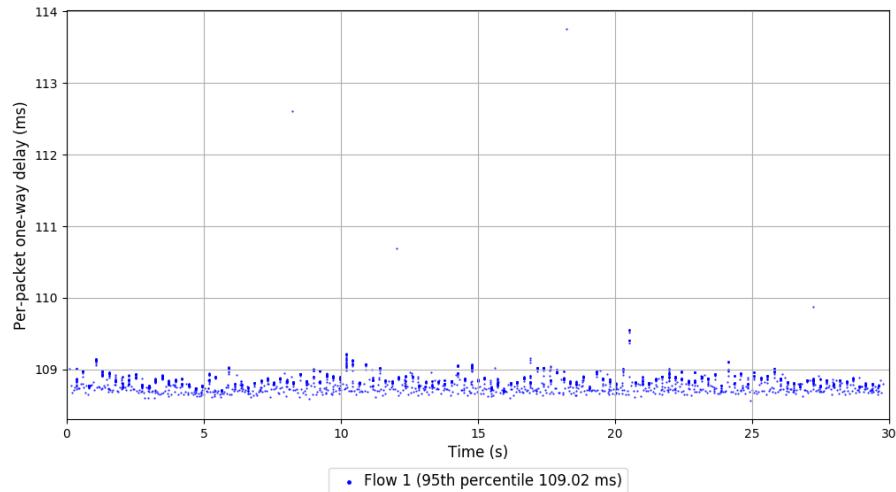
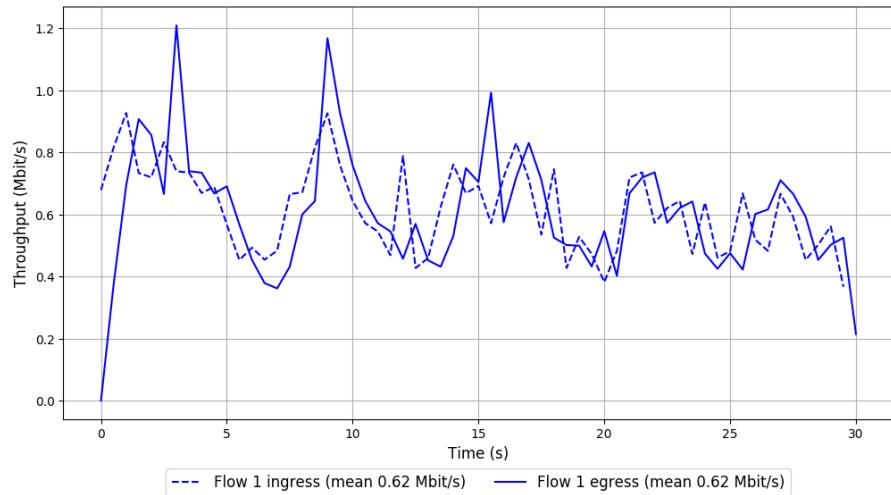


Run 5: Statistics of Sprout

```
Start at: 2019-03-26 21:10:25
End at: 2019-03-26 21:10:55
Local clock offset: 2.102 ms
Remote clock offset: 2.208 ms

# Below is generated by plot.py at 2019-03-26 23:02:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 109.021 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 109.021 ms
Loss rate: 0.52%
```

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

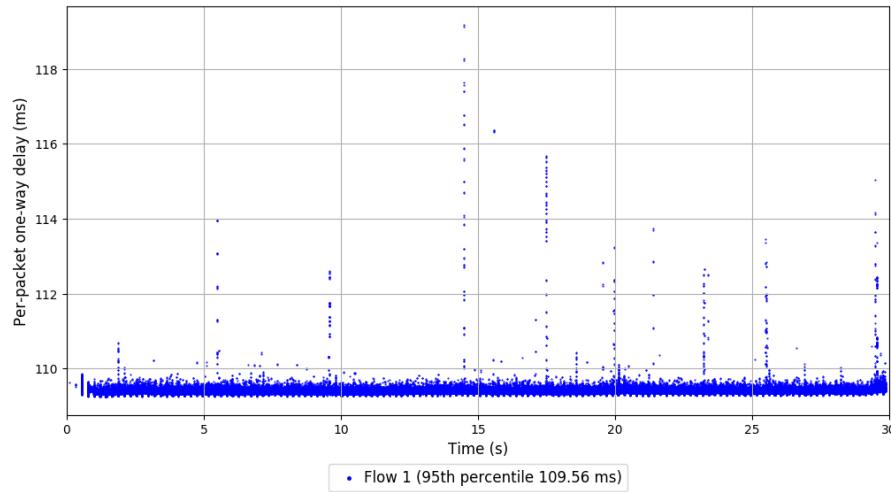
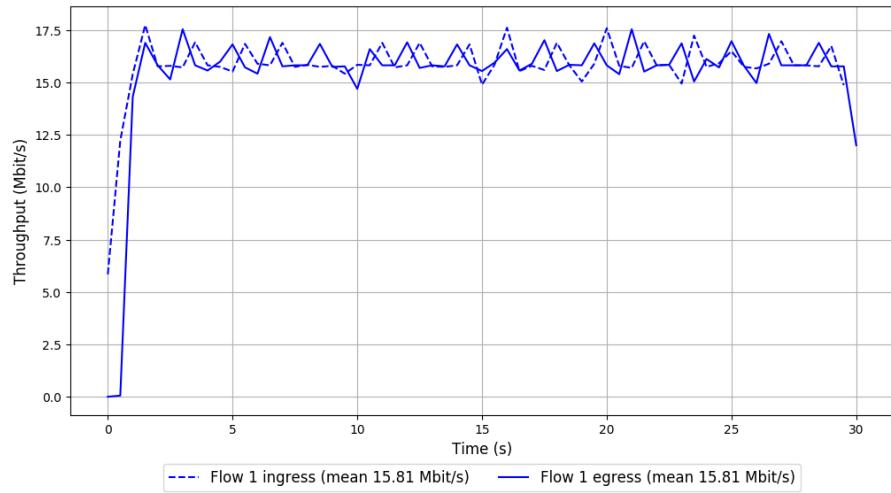


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-03-26 19:17:18
End at: 2019-03-26 19:17:48
Local clock offset: 22.667 ms
Remote clock offset: 23.665 ms

# Below is generated by plot.py at 2019-03-26 23:02:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.81 Mbit/s
95th percentile per-packet one-way delay: 109.563 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 15.81 Mbit/s
95th percentile per-packet one-way delay: 109.563 ms
Loss rate: 0.72%
```

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

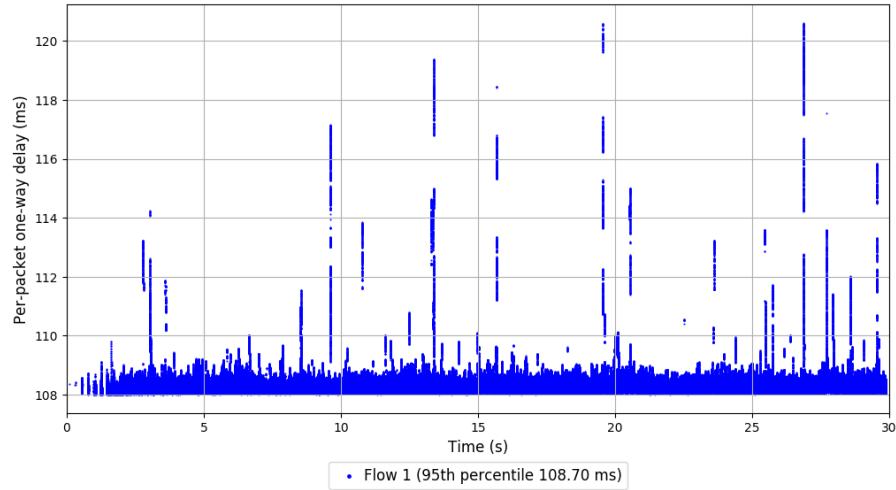
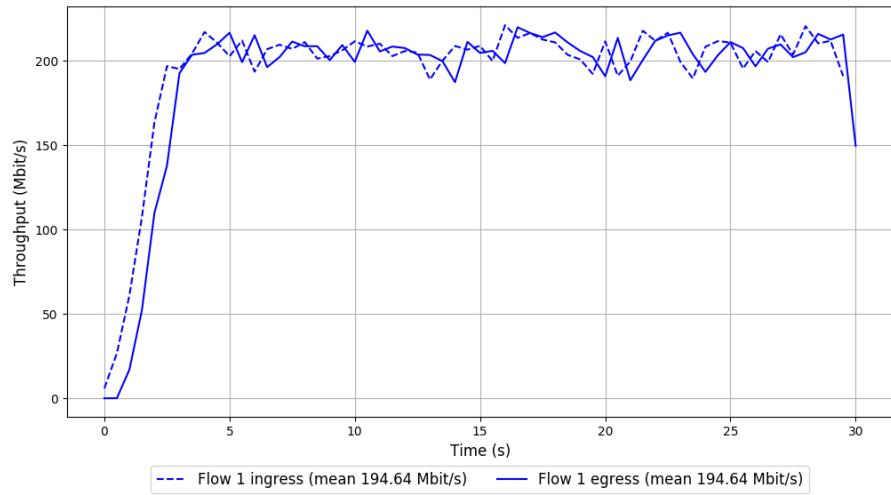


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-03-26 19:50:24
End at: 2019-03-26 19:50:54
Local clock offset: 35.0 ms
Remote clock offset: 36.99 ms

# Below is generated by plot.py at 2019-03-26 23:04:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 194.64 Mbit/s
95th percentile per-packet one-way delay: 108.697 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 194.64 Mbit/s
95th percentile per-packet one-way delay: 108.697 ms
Loss rate: 0.73%
```

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

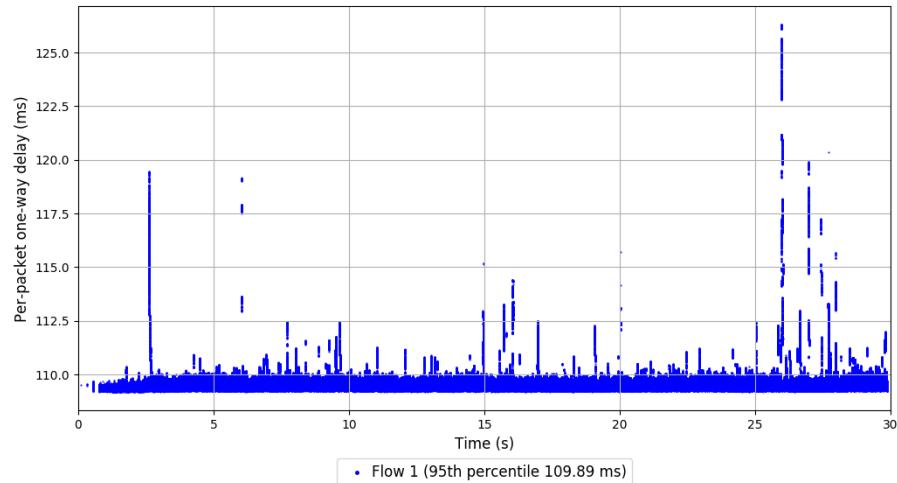
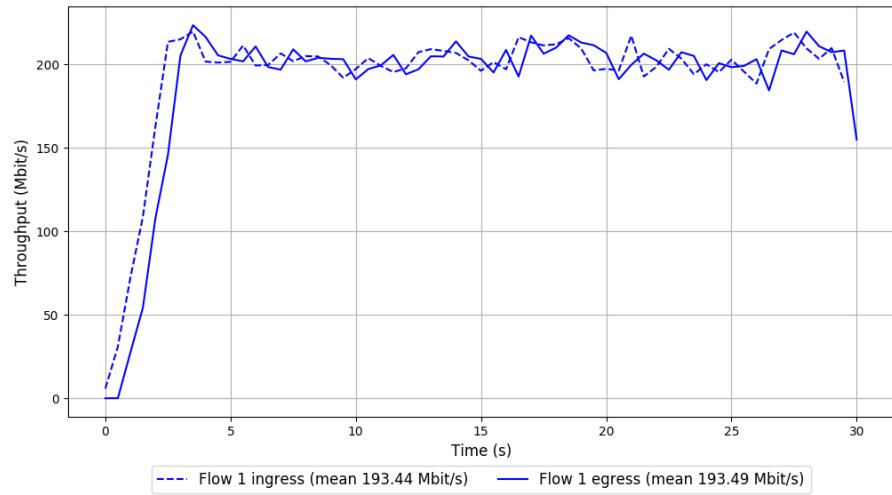


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-03-26 20:22:08
End at: 2019-03-26 20:22:38
Local clock offset: 8.917 ms
Remote clock offset: 9.423 ms

# Below is generated by plot.py at 2019-03-26 23:04:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 193.49 Mbit/s
95th percentile per-packet one-way delay: 109.885 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 193.49 Mbit/s
95th percentile per-packet one-way delay: 109.885 ms
Loss rate: 0.70%
```

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

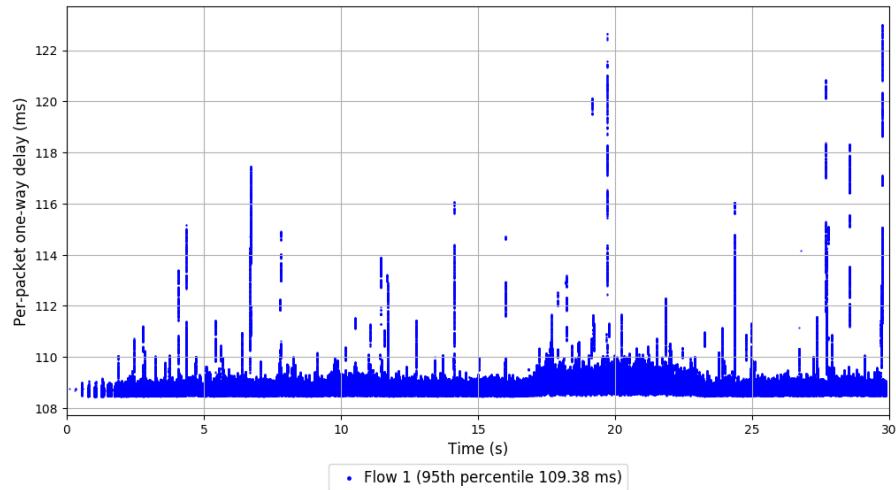
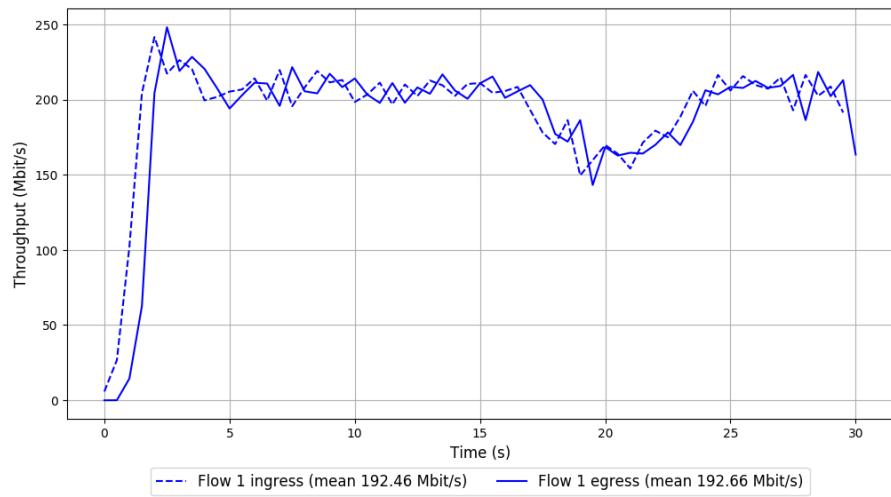


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-03-26 20:55:16
End at: 2019-03-26 20:55:46
Local clock offset: 3.495 ms
Remote clock offset: 4.383 ms

# Below is generated by plot.py at 2019-03-26 23:04:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 192.66 Mbit/s
95th percentile per-packet one-way delay: 109.376 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 192.66 Mbit/s
95th percentile per-packet one-way delay: 109.376 ms
Loss rate: 0.63%
```

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

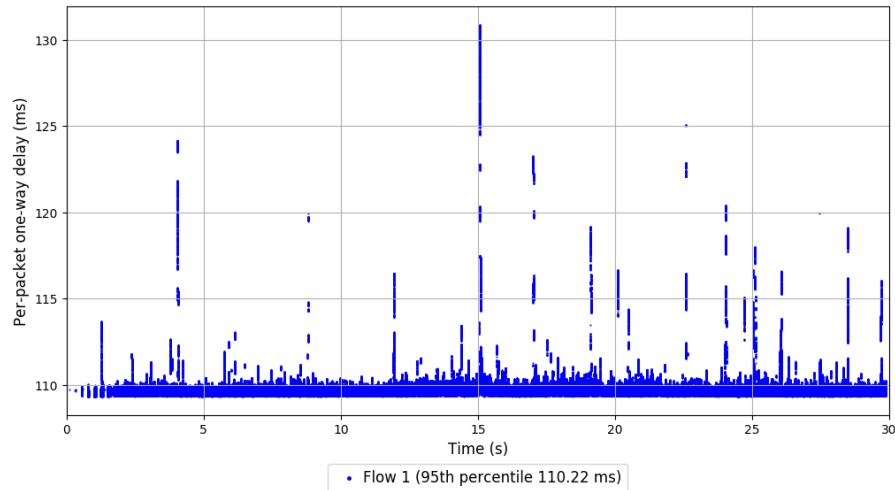
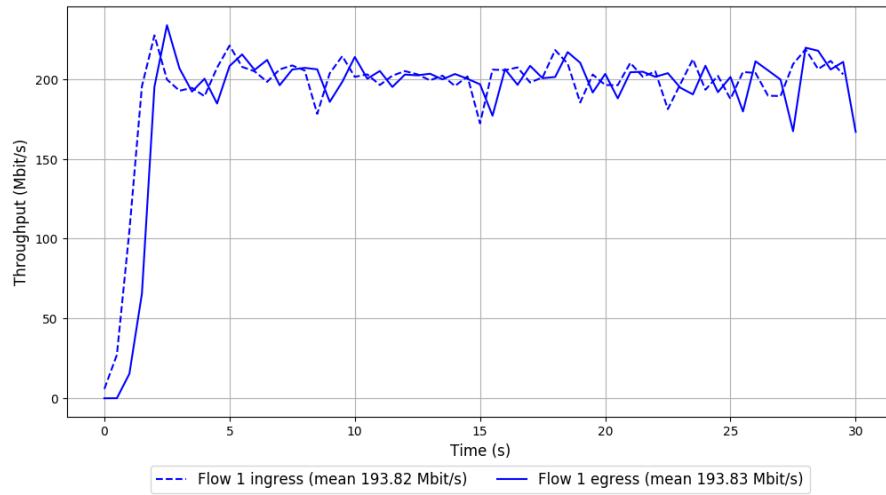


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-03-26 21:26:58
End at: 2019-03-26 21:27:28
Local clock offset: 1.562 ms
Remote clock offset: 1.697 ms

# Below is generated by plot.py at 2019-03-26 23:05:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 193.83 Mbit/s
95th percentile per-packet one-way delay: 110.223 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 193.83 Mbit/s
95th percentile per-packet one-way delay: 110.223 ms
Loss rate: 0.72%
```

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

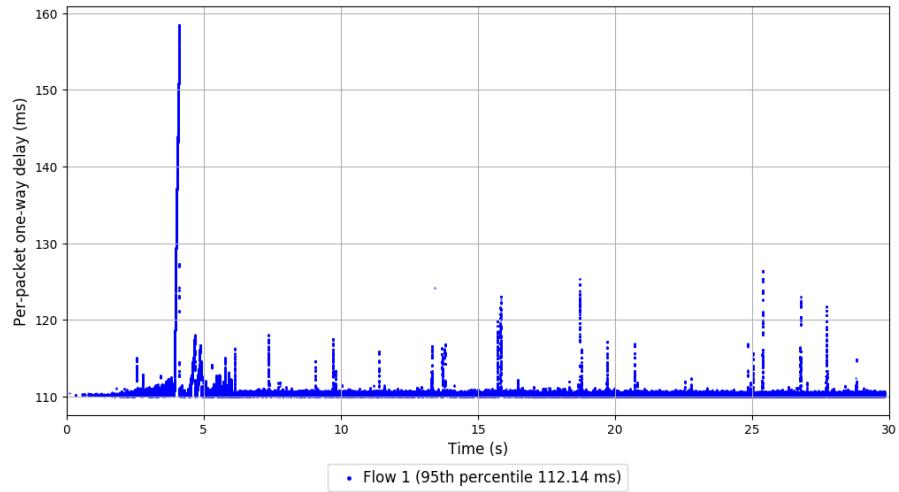
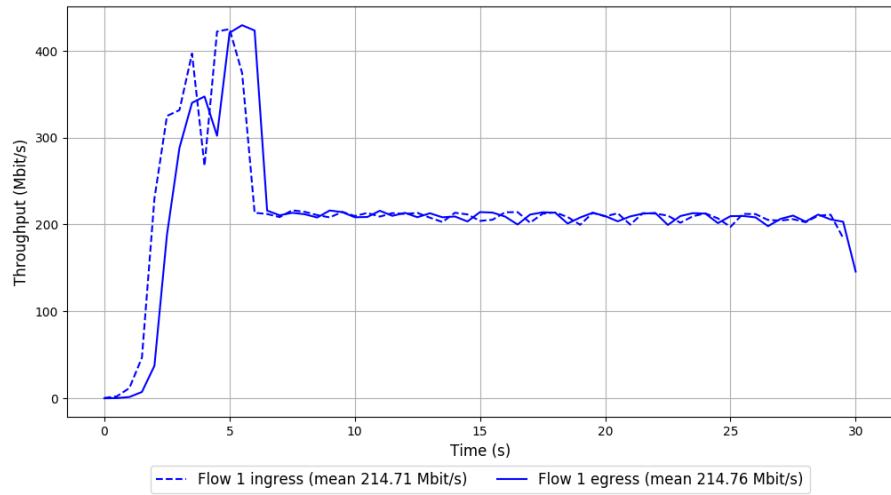


Run 1: Statistics of TCP Vegas

```
Start at: 2019-03-26 18:54:55
End at: 2019-03-26 18:55:25
Local clock offset: 9.053 ms
Remote clock offset: 9.814 ms

# Below is generated by plot.py at 2019-03-26 23:05:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 214.76 Mbit/s
95th percentile per-packet one-way delay: 112.141 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 214.76 Mbit/s
95th percentile per-packet one-way delay: 112.141 ms
Loss rate: 0.71%
```

Run 1: Report of TCP Vegas — Data Link

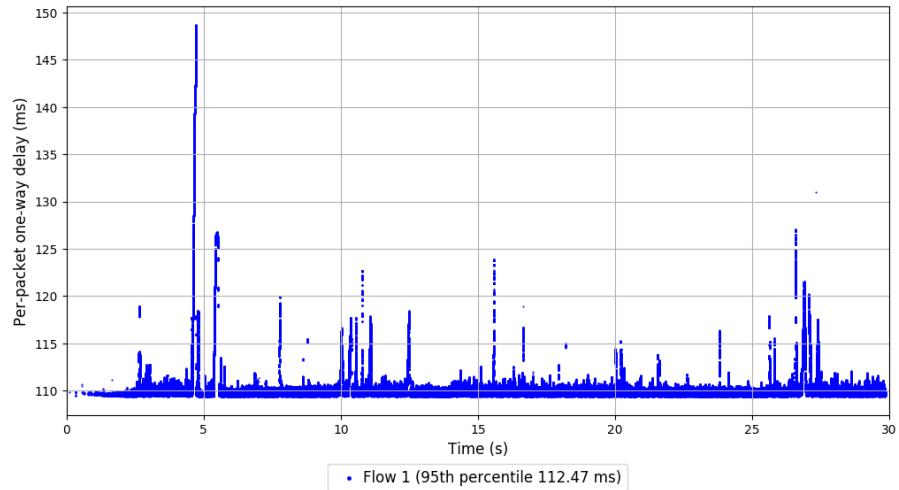
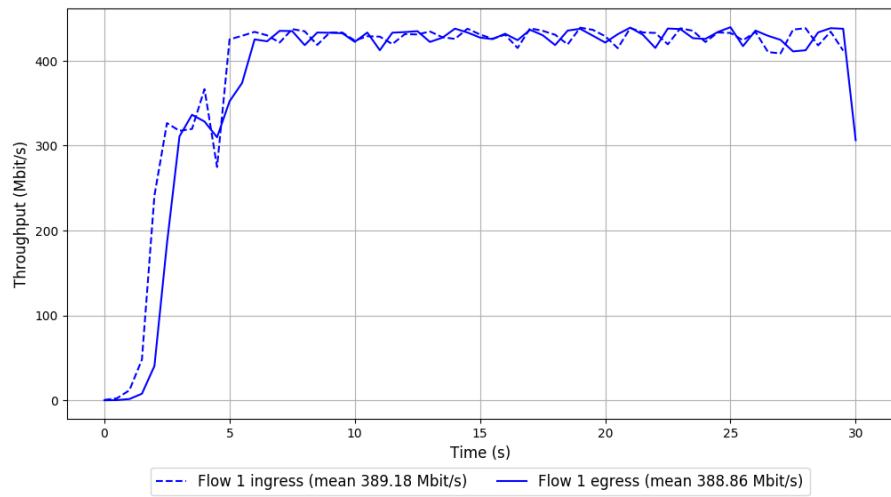


Run 2: Statistics of TCP Vegas

```
Start at: 2019-03-26 19:26:52
End at: 2019-03-26 19:27:22
Local clock offset: 19.236 ms
Remote clock offset: 20.101 ms

# Below is generated by plot.py at 2019-03-26 23:08:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 388.86 Mbit/s
95th percentile per-packet one-way delay: 112.469 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 388.86 Mbit/s
95th percentile per-packet one-way delay: 112.469 ms
Loss rate: 0.81%
```

Run 2: Report of TCP Vegas — Data Link

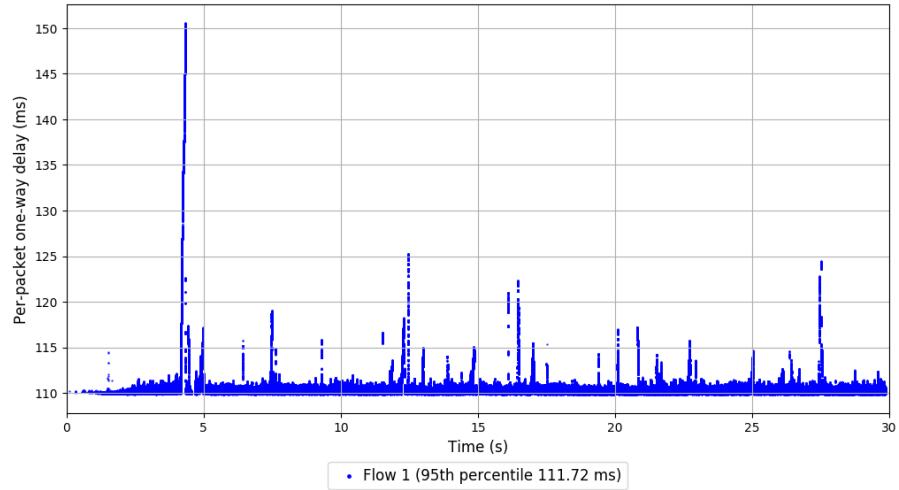
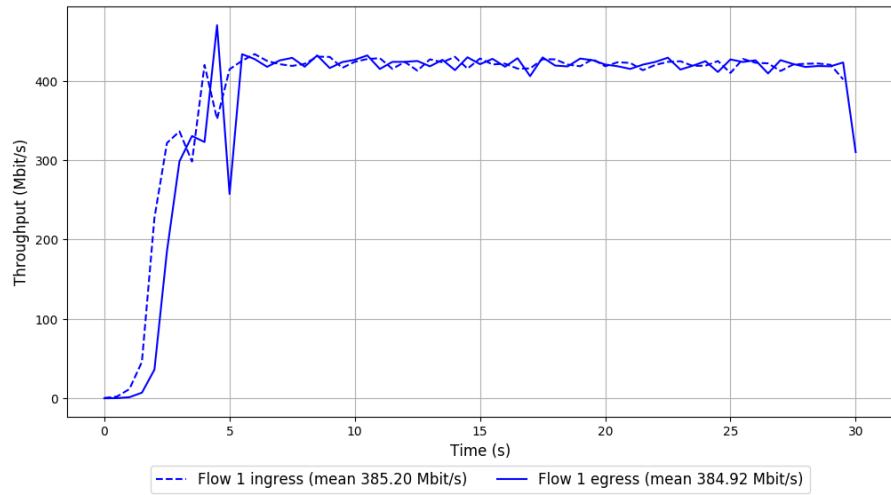


Run 3: Statistics of TCP Vegas

```
Start at: 2019-03-26 19:59:46
End at: 2019-03-26 20:00:16
Local clock offset: 21.345 ms
Remote clock offset: 21.721 ms

# Below is generated by plot.py at 2019-03-26 23:09:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 384.92 Mbit/s
95th percentile per-packet one-way delay: 111.724 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 384.92 Mbit/s
95th percentile per-packet one-way delay: 111.724 ms
Loss rate: 0.80%
```

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

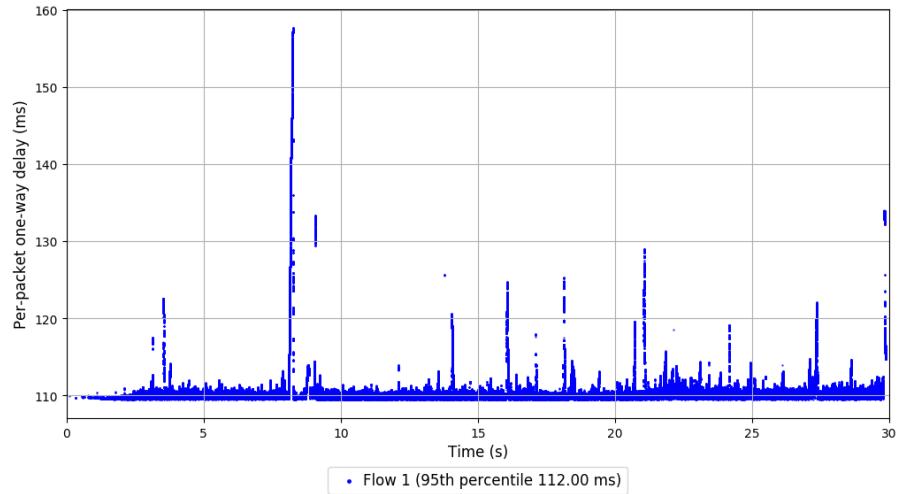
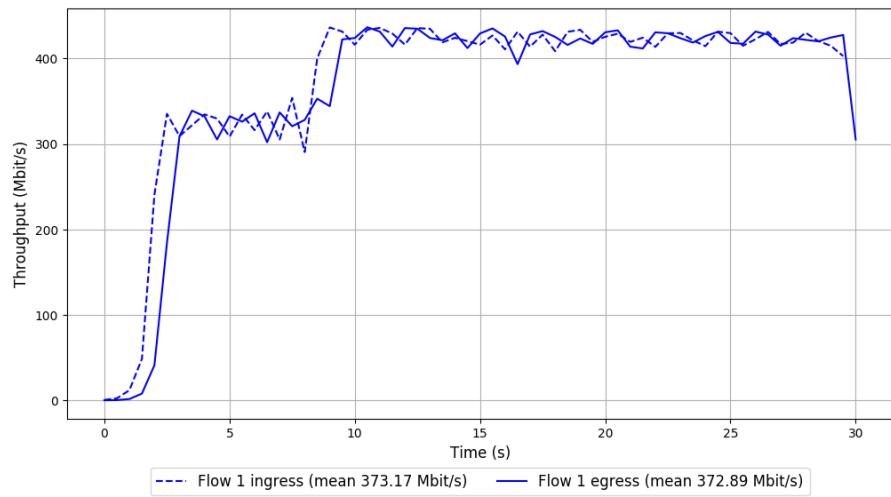


Run 4: Statistics of TCP Vegas

```
Start at: 2019-03-26 20:31:31
End at: 2019-03-26 20:32:01
Local clock offset: 6.912 ms
Remote clock offset: 7.105 ms

# Below is generated by plot.py at 2019-03-26 23:10:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 372.89 Mbit/s
95th percentile per-packet one-way delay: 112.003 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 372.89 Mbit/s
95th percentile per-packet one-way delay: 112.003 ms
Loss rate: 0.81%
```

Run 4: Report of TCP Vegas — Data Link

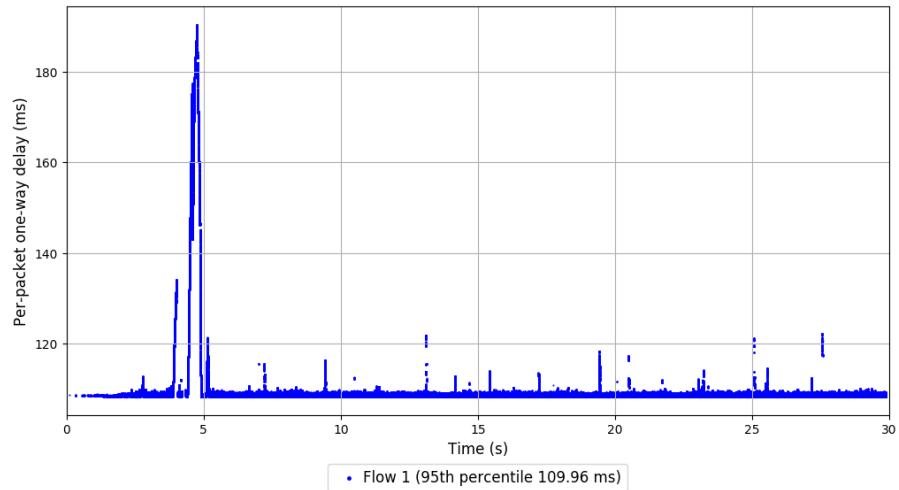
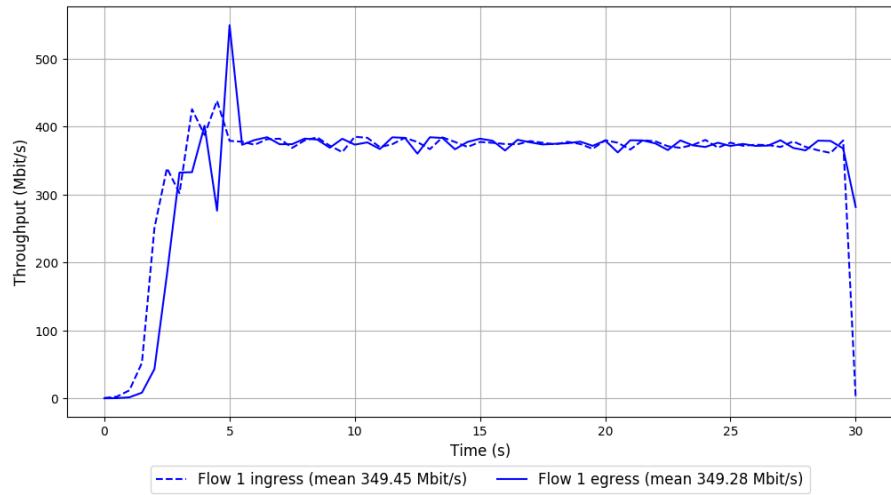


Run 5: Statistics of TCP Vegas

```
Start at: 2019-03-26 21:04:43
End at: 2019-03-26 21:05:13
Local clock offset: 3.277 ms
Remote clock offset: 3.557 ms

# Below is generated by plot.py at 2019-03-26 23:10:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 349.28 Mbit/s
95th percentile per-packet one-way delay: 109.964 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 349.28 Mbit/s
95th percentile per-packet one-way delay: 109.964 ms
Loss rate: 0.78%
```

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

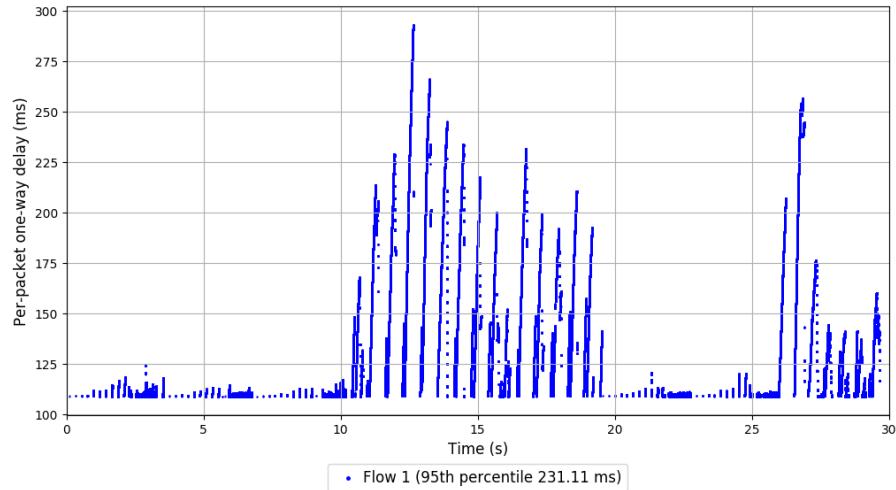
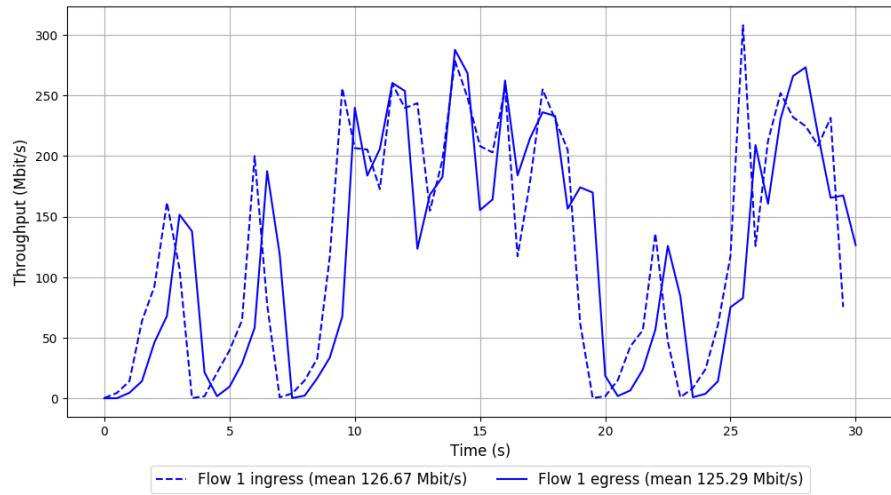


Run 1: Statistics of Verus

```
Start at: 2019-03-26 18:53:31
End at: 2019-03-26 18:54:01
Local clock offset: 9.856 ms
Remote clock offset: 10.84 ms

# Below is generated by plot.py at 2019-03-26 23:10:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 125.29 Mbit/s
95th percentile per-packet one-way delay: 231.106 ms
Loss rate: 2.28%
-- Flow 1:
Average throughput: 125.29 Mbit/s
95th percentile per-packet one-way delay: 231.106 ms
Loss rate: 2.28%
```

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

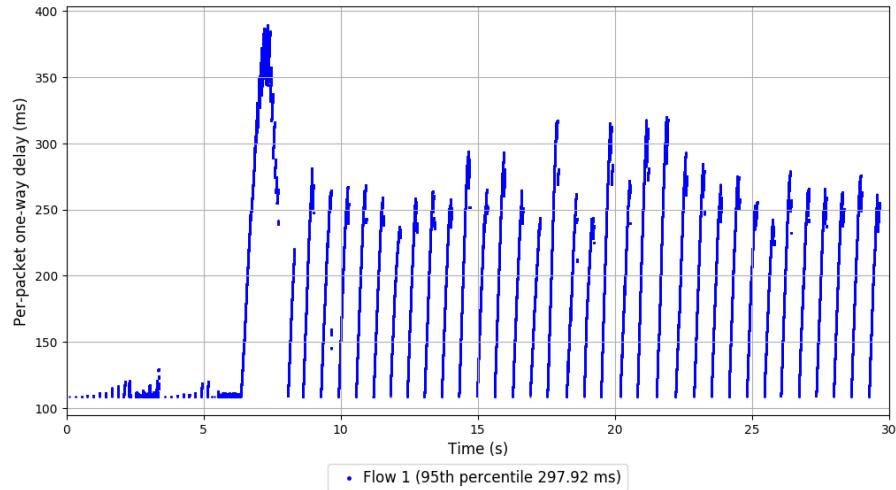
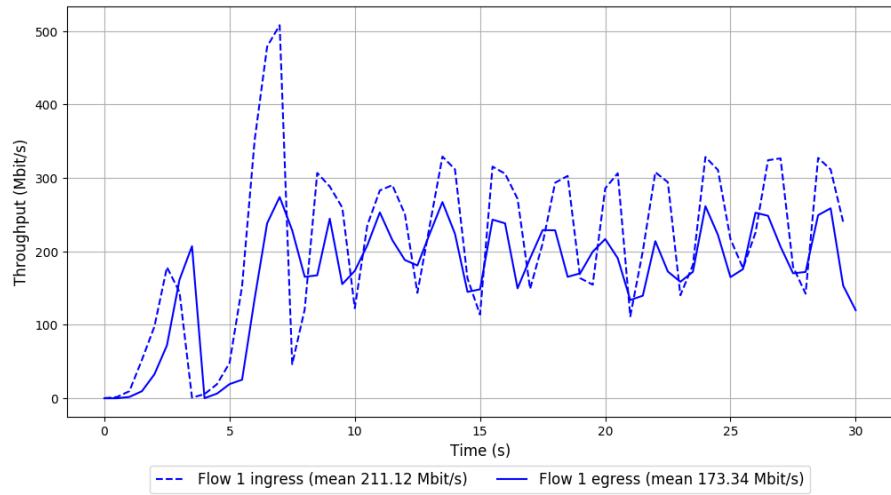


Run 2: Statistics of Verus

```
Start at: 2019-03-26 19:25:14
End at: 2019-03-26 19:25:44
Local clock offset: 18.999 ms
Remote clock offset: 20.516 ms

# Below is generated by plot.py at 2019-03-26 23:11:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 173.34 Mbit/s
95th percentile per-packet one-way delay: 297.915 ms
Loss rate: 19.08%
-- Flow 1:
Average throughput: 173.34 Mbit/s
95th percentile per-packet one-way delay: 297.915 ms
Loss rate: 19.08%
```

## Run 2: Report of Verus — Data Link

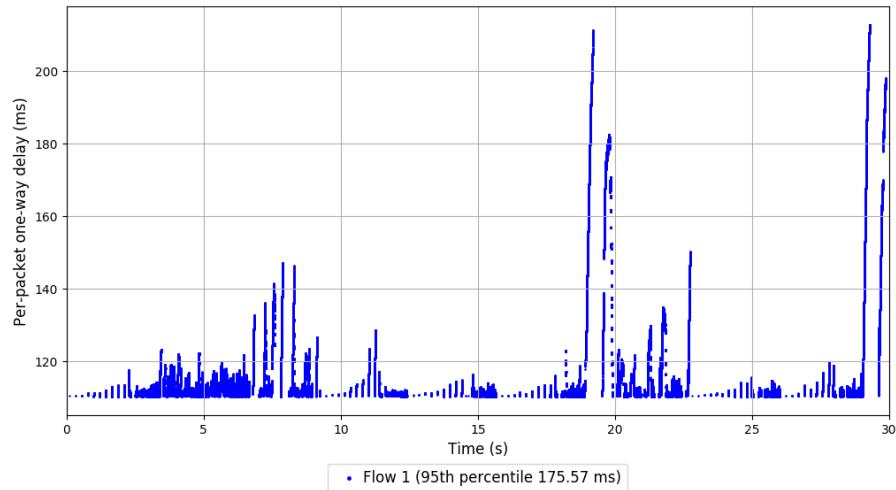
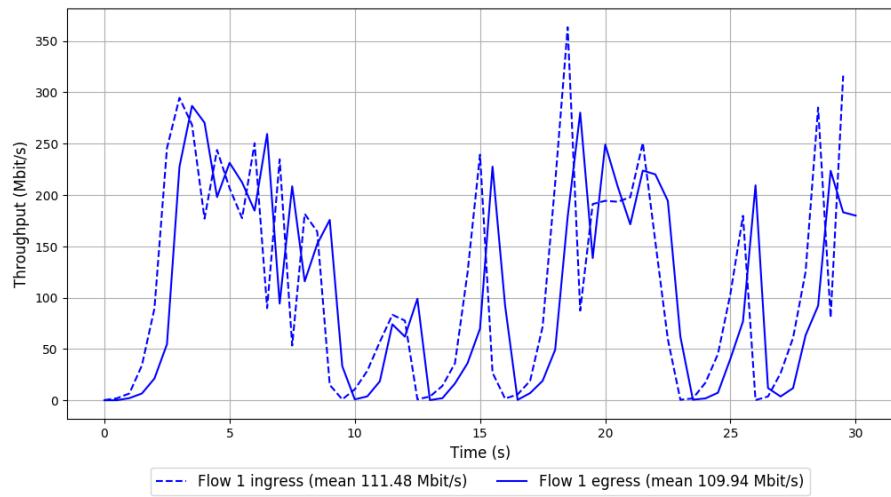


Run 3: Statistics of Verus

```
Start at: 2019-03-26 19:58:24
End at: 2019-03-26 19:58:54
Local clock offset: 24.566 ms
Remote clock offset: 24.66 ms

# Below is generated by plot.py at 2019-03-26 23:11:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 109.94 Mbit/s
95th percentile per-packet one-way delay: 175.573 ms
Loss rate: 2.10%
-- Flow 1:
Average throughput: 109.94 Mbit/s
95th percentile per-packet one-way delay: 175.573 ms
Loss rate: 2.10%
```

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

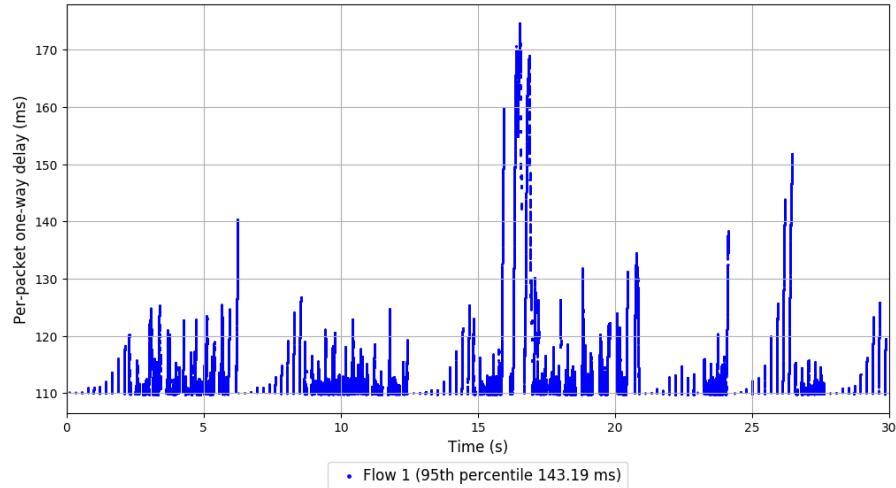
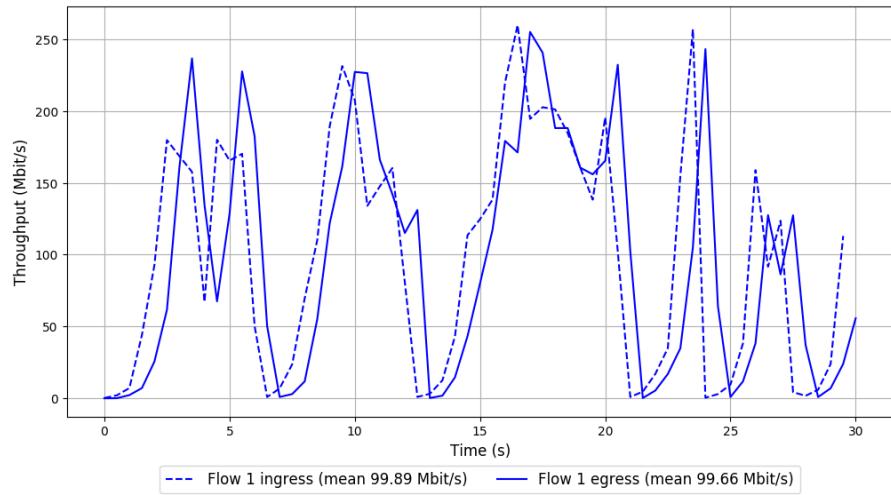


Run 4: Statistics of Verus

```
Start at: 2019-03-26 20:30:09
End at: 2019-03-26 20:30:40
Local clock offset: 8.174 ms
Remote clock offset: 8.124 ms

# Below is generated by plot.py at 2019-03-26 23:11:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 99.66 Mbit/s
95th percentile per-packet one-way delay: 143.188 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 99.66 Mbit/s
95th percentile per-packet one-way delay: 143.188 ms
Loss rate: 0.96%
```

## Run 4: Report of Verus — Data Link

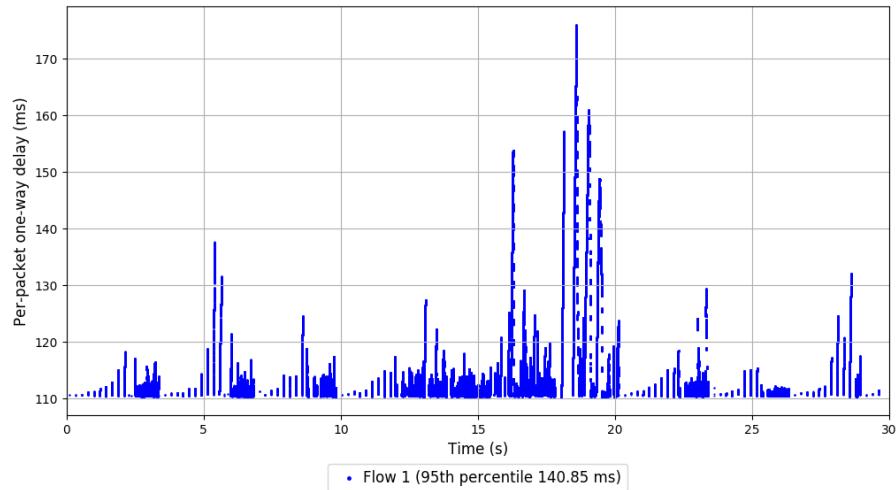
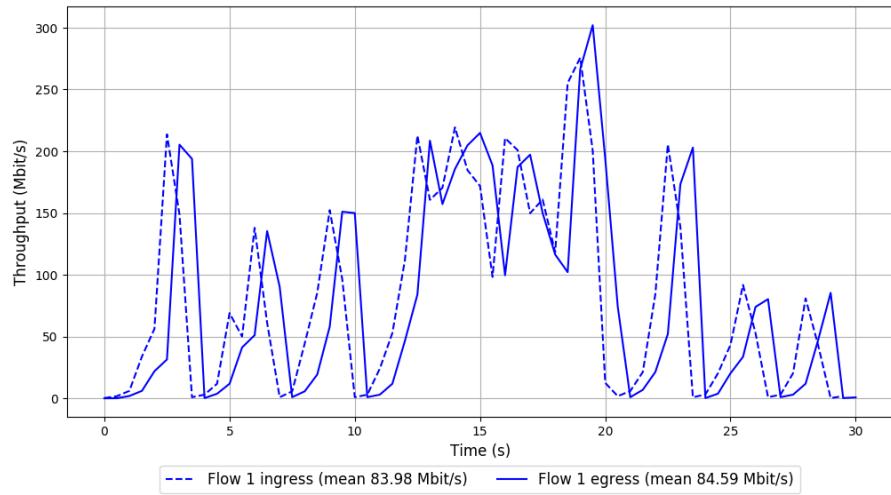


Run 5: Statistics of Verus

```
Start at: 2019-03-26 21:03:24
End at: 2019-03-26 21:03:54
Local clock offset: 3.786 ms
Remote clock offset: 4.062 ms

# Below is generated by plot.py at 2019-03-26 23:11:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.59 Mbit/s
95th percentile per-packet one-way delay: 140.851 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 84.59 Mbit/s
95th percentile per-packet one-way delay: 140.851 ms
Loss rate: 0.02%
```

Run 5: Report of Verus — Data Link

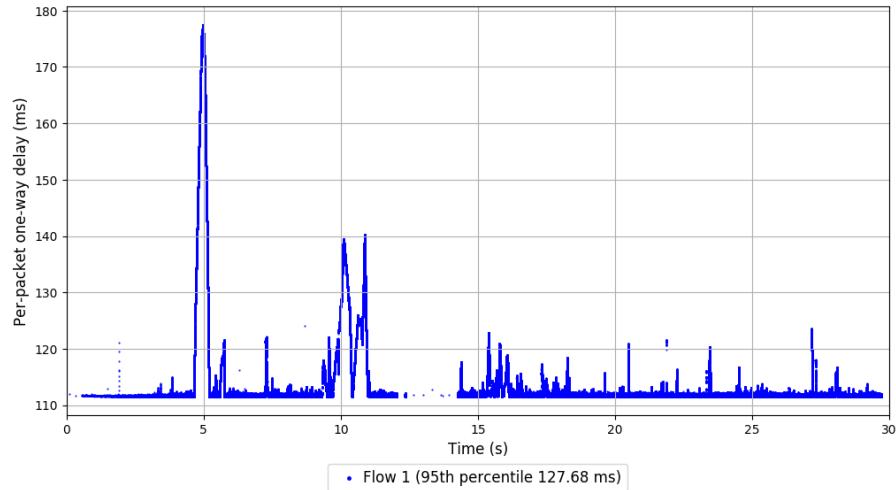
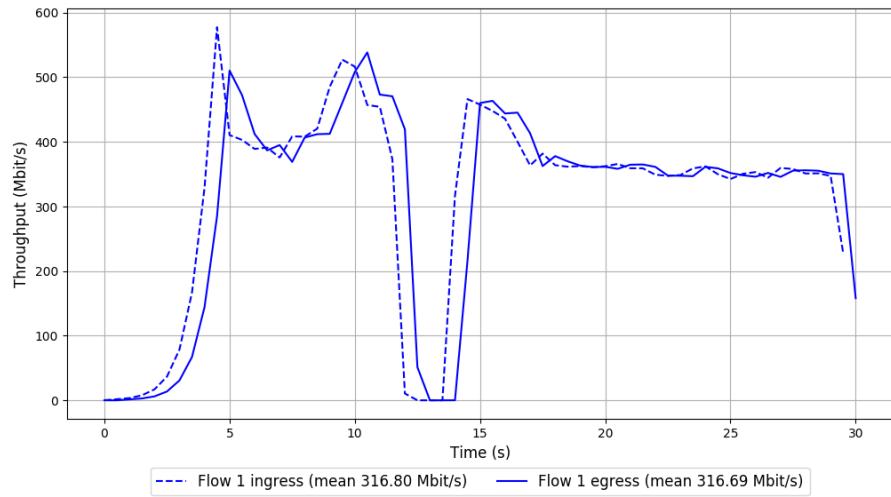


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-03-26 19:14:10
End at: 2019-03-26 19:14:40
Local clock offset: 18.548 ms
Remote clock offset: 19.439 ms

# Below is generated by plot.py at 2019-03-26 23:13:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 316.69 Mbit/s
95th percentile per-packet one-way delay: 127.684 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 316.69 Mbit/s
95th percentile per-packet one-way delay: 127.684 ms
Loss rate: 0.77%
```

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

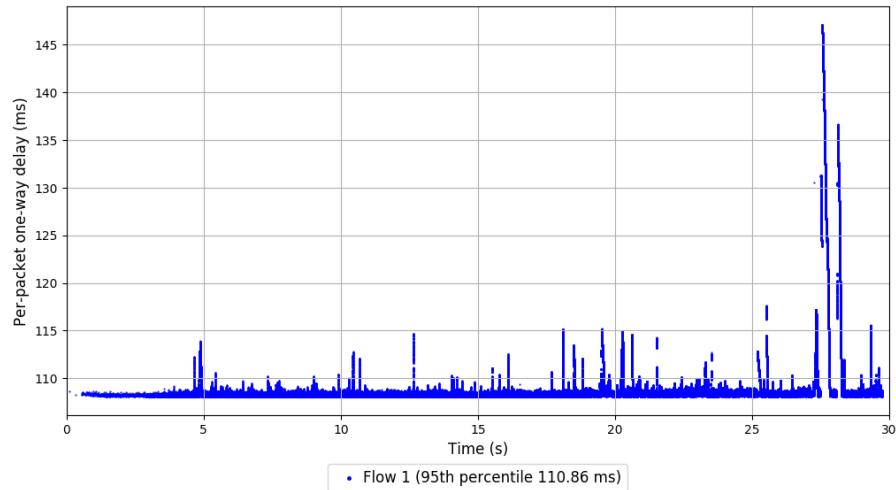
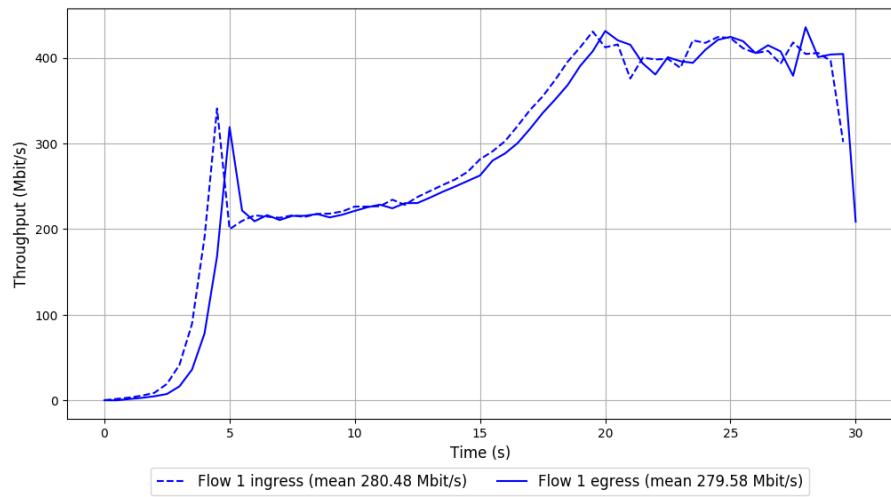


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-03-26 19:46:58
End at: 2019-03-26 19:47:28
Local clock offset: 31.507 ms
Remote clock offset: 33.246 ms

# Below is generated by plot.py at 2019-03-26 23:13:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 279.58 Mbit/s
95th percentile per-packet one-way delay: 110.860 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 279.58 Mbit/s
95th percentile per-packet one-way delay: 110.860 ms
Loss rate: 1.05%
```

Run 2: Report of PCC-Vivace — Data Link

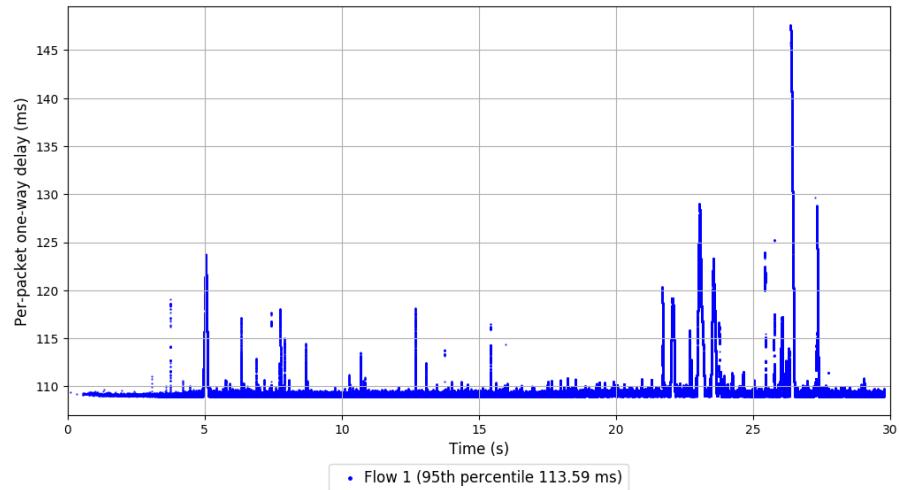
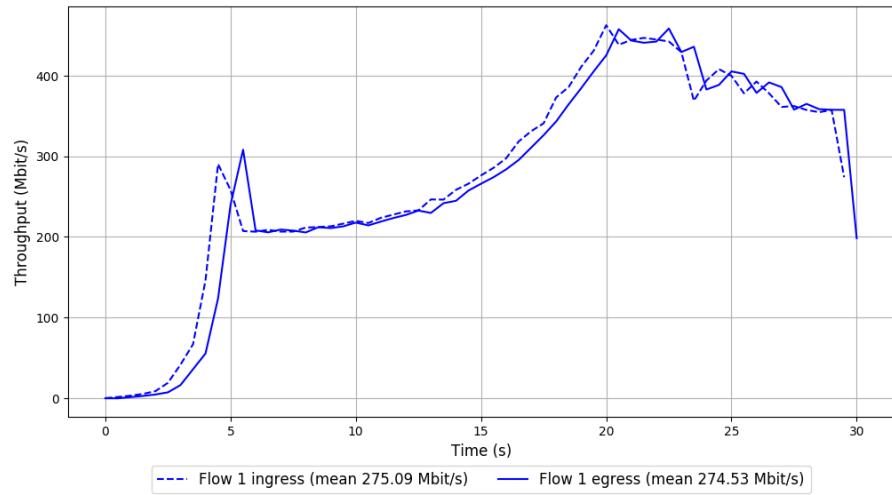


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-03-26 20:19:00
End at: 2019-03-26 20:19:30
Local clock offset: 8.56 ms
Remote clock offset: 9.172 ms

# Below is generated by plot.py at 2019-03-26 23:13:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 274.53 Mbit/s
95th percentile per-packet one-way delay: 113.590 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 274.53 Mbit/s
95th percentile per-packet one-way delay: 113.590 ms
Loss rate: 0.94%
```

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

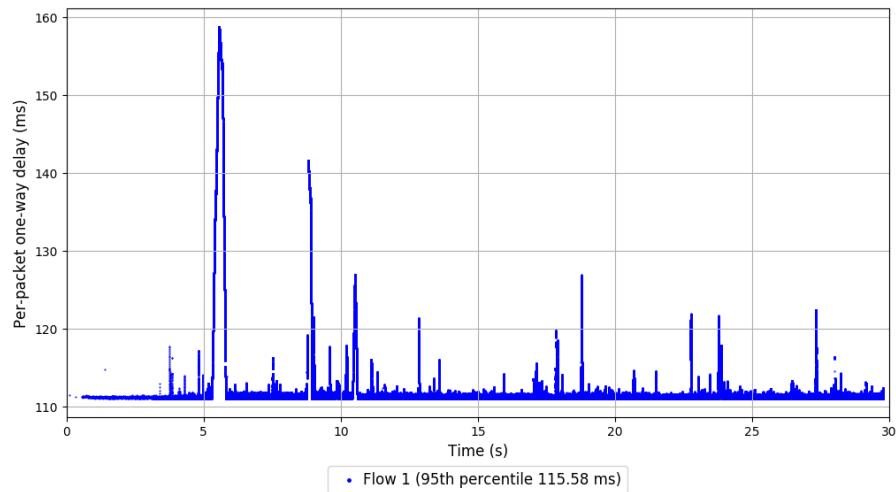
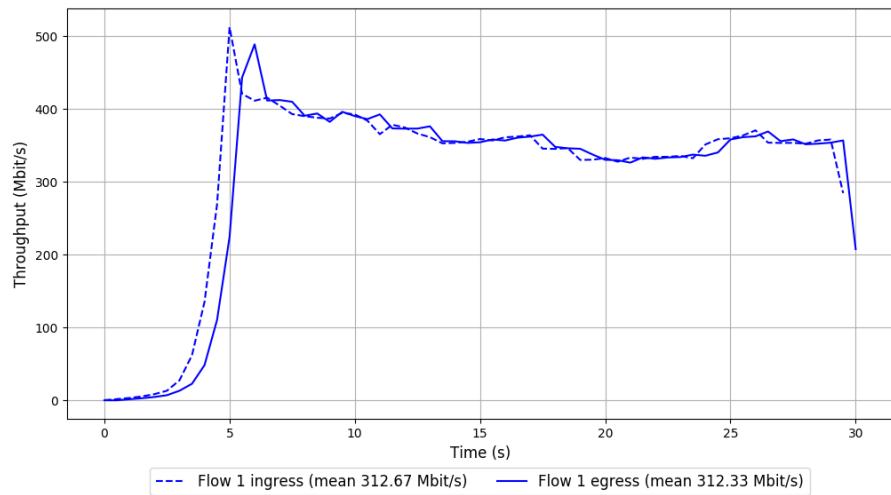


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-03-26 20:51:50
End at: 2019-03-26 20:52:20
Local clock offset: 3.321 ms
Remote clock offset: 3.743 ms

# Below is generated by plot.py at 2019-03-26 23:13:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 312.33 Mbit/s
95th percentile per-packet one-way delay: 115.582 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 312.33 Mbit/s
95th percentile per-packet one-way delay: 115.582 ms
Loss rate: 0.85%
```

Run 4: Report of PCC-Vivace — Data Link

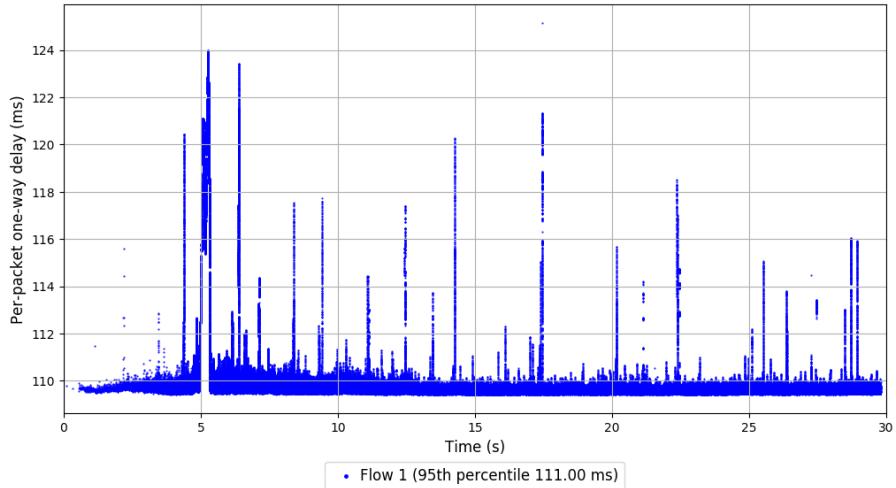
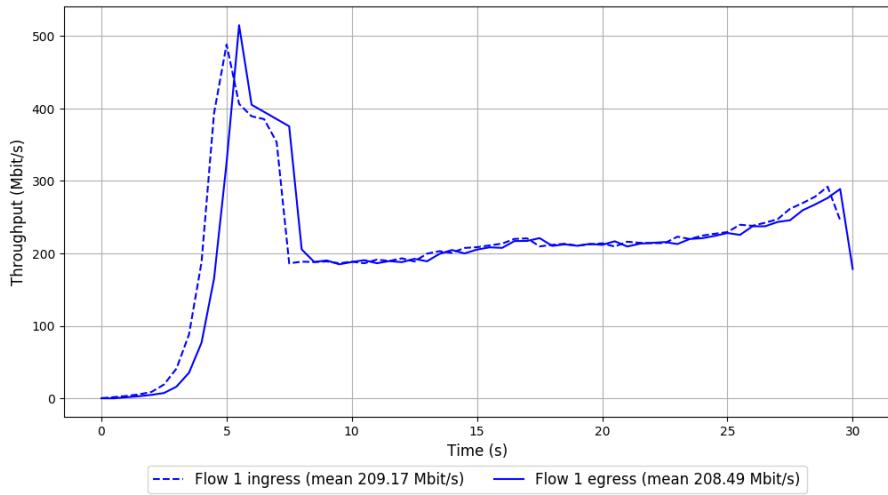


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-03-26 21:23:56
End at: 2019-03-26 21:24:26
Local clock offset: 1.521 ms
Remote clock offset: 1.625 ms

# Below is generated by plot.py at 2019-03-26 23:13:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 208.49 Mbit/s
95th percentile per-packet one-way delay: 111.004 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 208.49 Mbit/s
95th percentile per-packet one-way delay: 111.004 ms
Loss rate: 1.06%
```

Run 5: Report of PCC-Vivace — Data Link

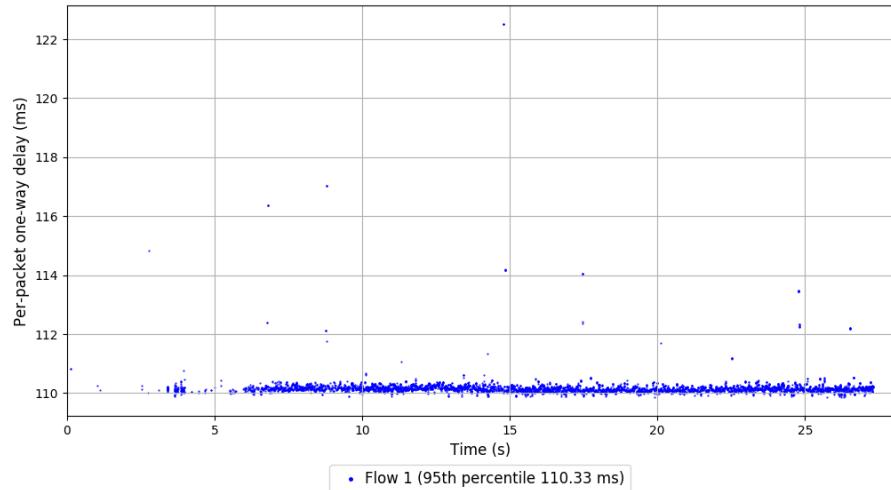
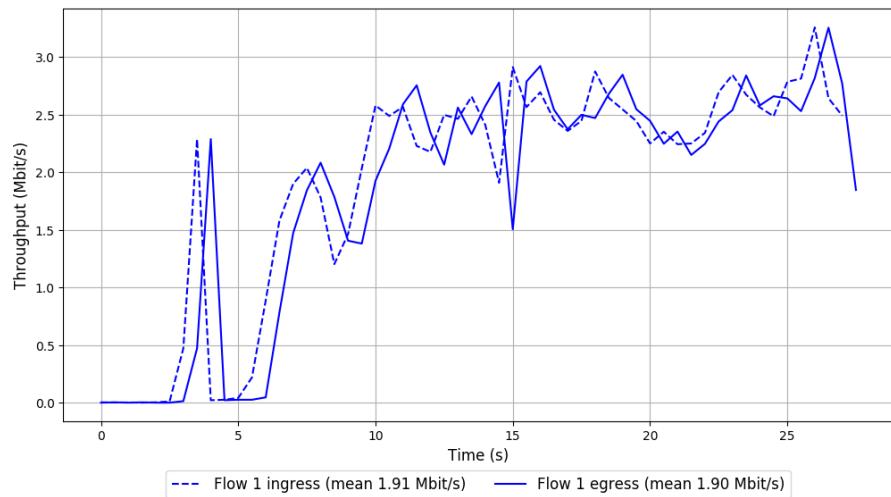


```
Run 1: Statistics of WebRTC media

Start at: 2019-03-26 19:03:36
End at: 2019-03-26 19:04:06
Local clock offset: 15.347 ms
Remote clock offset: 15.464 ms

# Below is generated by plot.py at 2019-03-26 23:13:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.90 Mbit/s
95th percentile per-packet one-way delay: 110.332 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 1.90 Mbit/s
95th percentile per-packet one-way delay: 110.332 ms
Loss rate: 1.20%
```

Run 1: Report of WebRTC media — Data Link

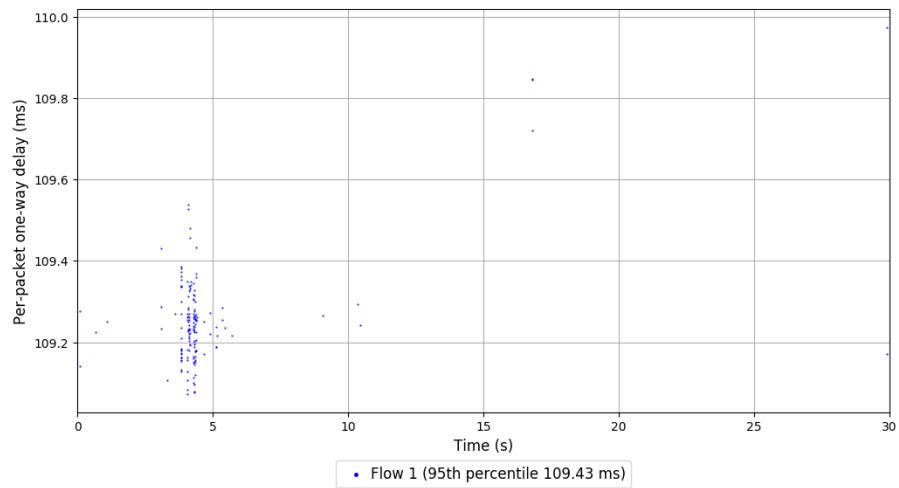
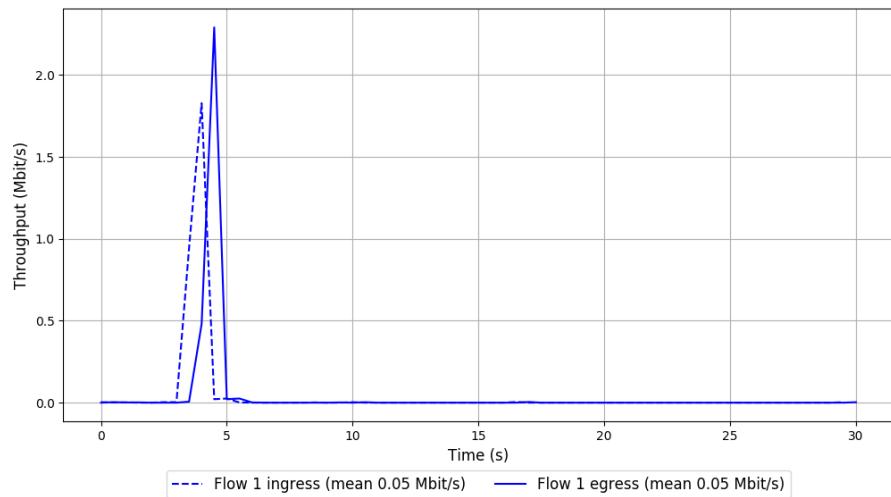


Run 2: Statistics of WebRTC media

```
Start at: 2019-03-26 19:36:11
End at: 2019-03-26 19:36:41
Local clock offset: 22.062 ms
Remote clock offset: 23.418 ms

# Below is generated by plot.py at 2019-03-26 23:13:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.434 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.434 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

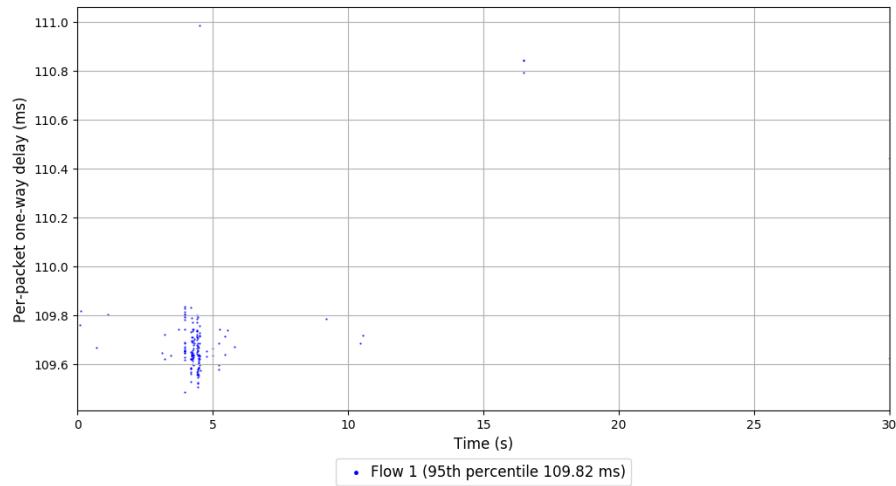
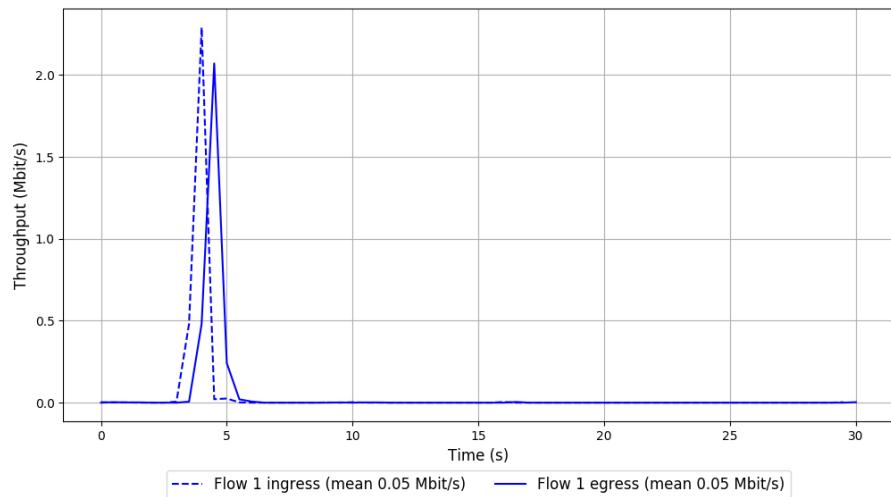


Run 3: Statistics of WebRTC media

```
Start at: 2019-03-26 20:08:26
End at: 2019-03-26 20:08:56
Local clock offset: 11.237 ms
Remote clock offset: 11.348 ms

# Below is generated by plot.py at 2019-03-26 23:13:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.820 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.820 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

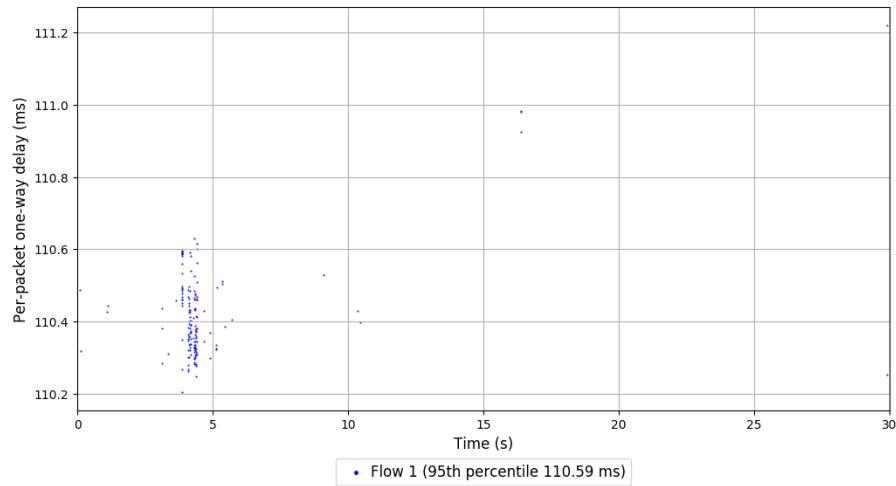
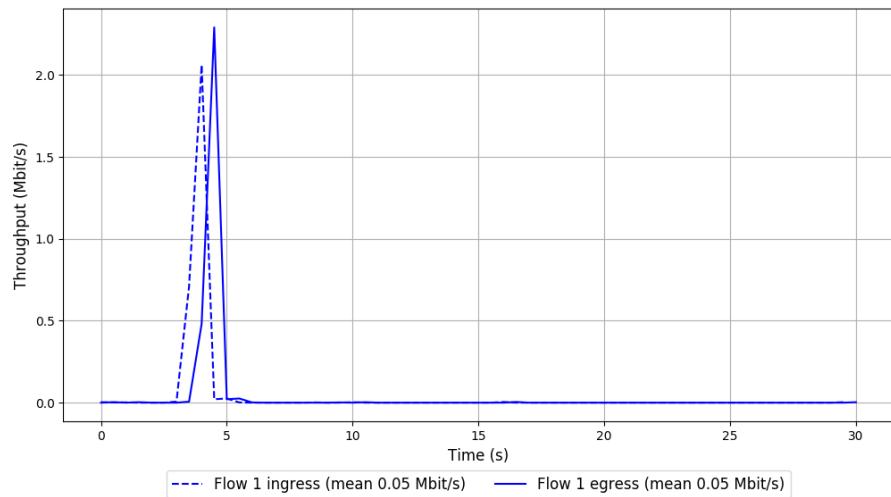


Run 4: Statistics of WebRTC media

```
Start at: 2019-03-26 20:40:48
End at: 2019-03-26 20:41:18
Local clock offset: 4.6 ms
Remote clock offset: 3.968 ms

# Below is generated by plot.py at 2019-03-26 23:13:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 110.594 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 110.594 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-03-26 21:13:20

End at: 2019-03-26 21:13:50

Local clock offset: 1.525 ms

Remote clock offset: 1.834 ms

Run 5: Report of WebRTC media — Data Link

