

## Pantheon Report

Generated at 2019-01-18 09:05:14 (UTC).  
Data path: GCE Sydney on `ens4 (local)` → GCE Tokyo on `ens4 (remote)`.  
Repeated the test of 21 congestion control schemes 5 times.  
Each test lasted for 30 seconds running 1 flow.  
NTP offsets were measured against `time.google.com` and have been applied to correct the timestamps in logs.

System info:

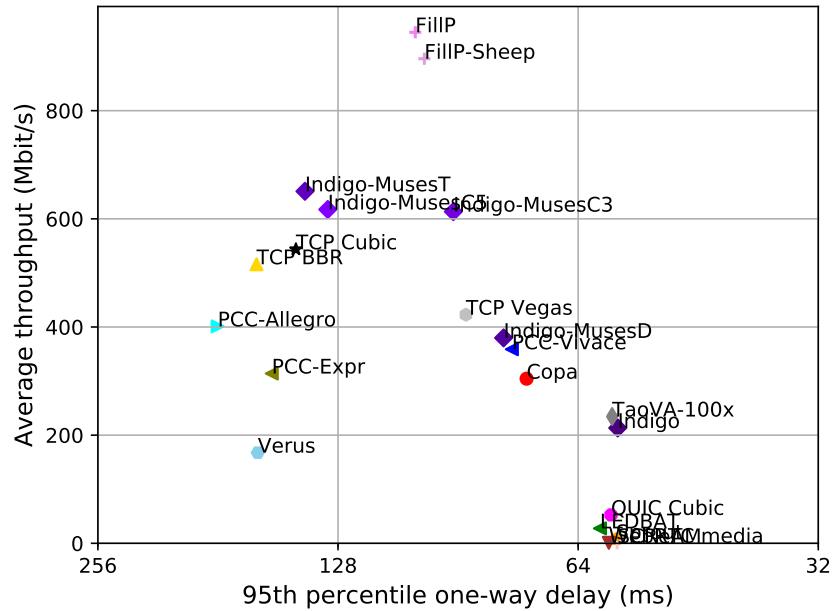
```
Linux 4.15.0-1026-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

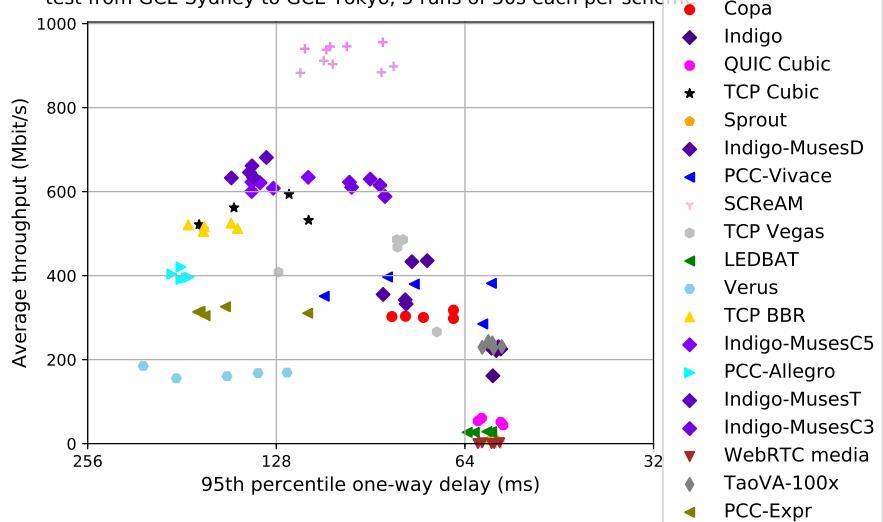
```
branch: muses @ c80a283586bf7b0cc1fe08c69c8f60d56498f81c
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ c3eee875824760ec5b2fd207fefef166e1afe2170
third_party/pantheon-tunnel @ f866d3f58d27af942717625ee3a354cc2e802bd
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 Sydney to GCE Tokyo, 5 runs of 30s each per scheme  
(mean of all runs by scheme)



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



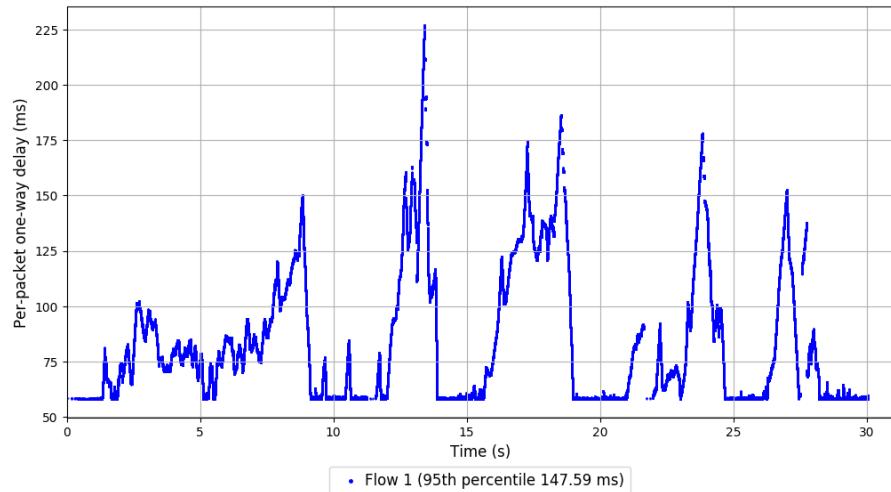
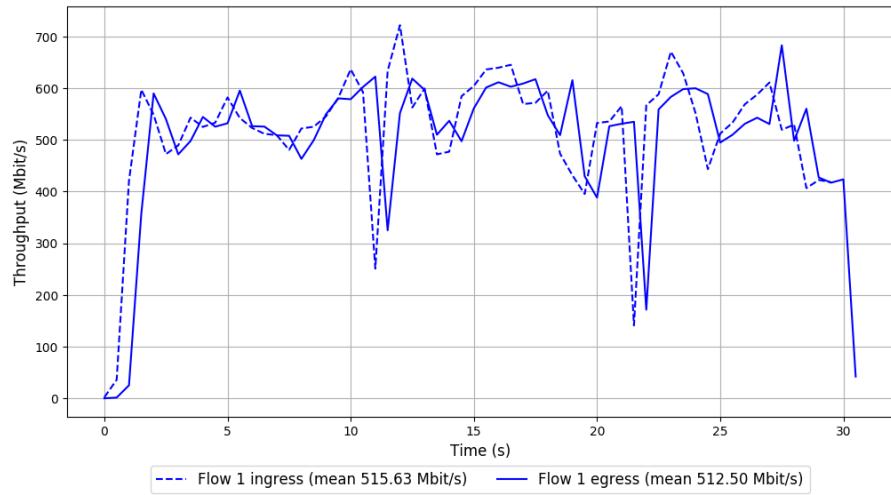
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	516.02	161.93	1.07
Copa	5	304.40	74.27	0.01
TCP Cubic	5	543.67	144.55	0.20
FillP	5	944.97	102.41	0.26
FillP-Sheep	5	896.01	99.77	0.33
Indigo	5	213.31	57.10	0.00
Indigo-MusesC3	5	613.31	91.76	0.06
Indigo-MusesC5	5	617.27	131.85	0.22
Indigo-MusesD	5	379.83	79.37	0.01
Indigo-MusesT	5	650.92	140.82	0.28
LEDBAT	5	27.58	60.10	0.00
PCC-Allegro	5	401.08	181.15	2.80
PCC-Expr	5	313.93	154.99	2.78
QUIC Cubic	4	52.53	58.22	0.01
SCReAM	5	0.22	57.19	0.00
Sprout	5	7.63	57.37	0.00
TaoVA-100x	5	234.42	58.02	0.00
TCP Vegas	5	422.67	88.49	0.01
Verus	5	167.63	161.38	0.51
PCC-Vivace	5	358.84	77.50	0.02
WebRTC media	5	0.86	58.58	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-01-18 04:23:24
End at: 2019-01-18 04:23:54
Local clock offset: -0.543 ms
Remote clock offset: 0.339 ms

# Below is generated by plot.py at 2019-01-18 07:20:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 512.50 Mbit/s
95th percentile per-packet one-way delay: 147.591 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 512.50 Mbit/s
95th percentile per-packet one-way delay: 147.591 ms
Loss rate: 0.61%
```

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

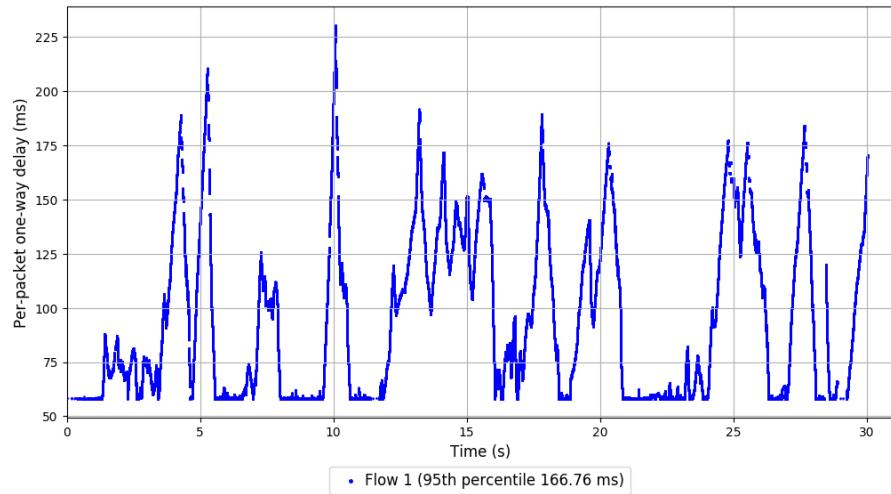
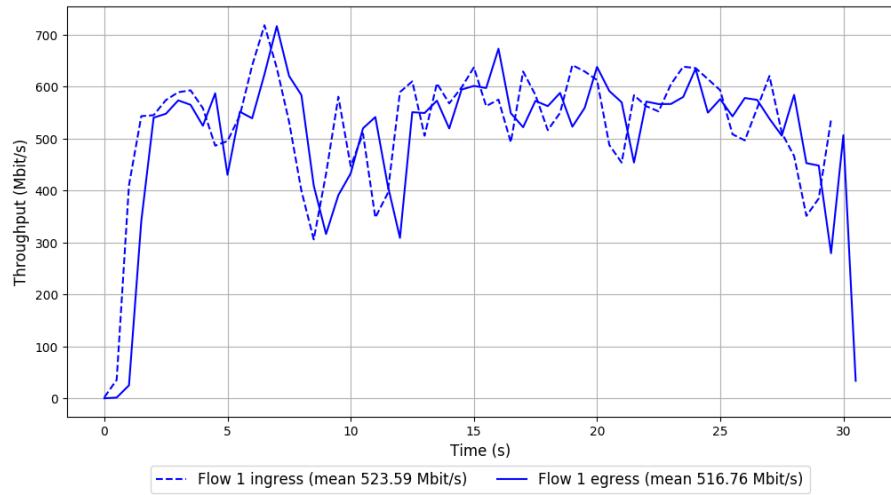


Run 2: Statistics of TCP BBR

```
Start at: 2019-01-18 04:54:56
End at: 2019-01-18 04:55:26
Local clock offset: -0.046 ms
Remote clock offset: 0.609 ms

# Below is generated by plot.py at 2019-01-18 07:20:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 516.76 Mbit/s
95th percentile per-packet one-way delay: 166.764 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 516.76 Mbit/s
95th percentile per-packet one-way delay: 166.764 ms
Loss rate: 1.30%
```

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

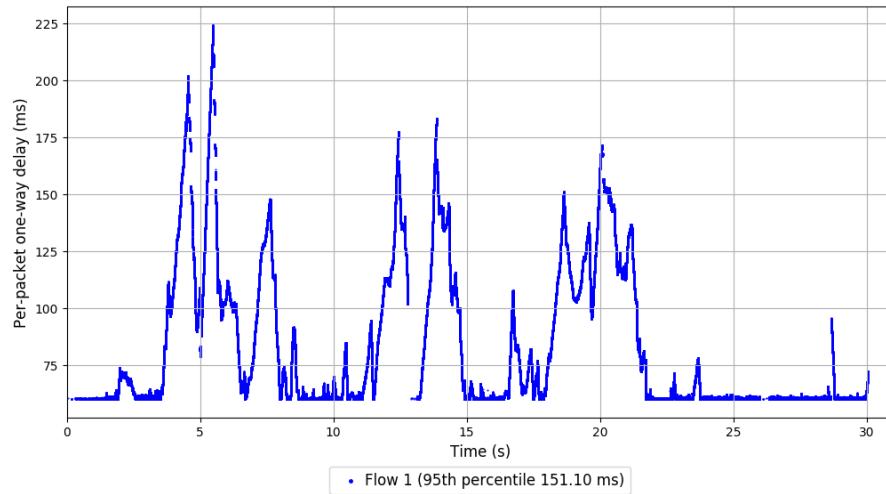
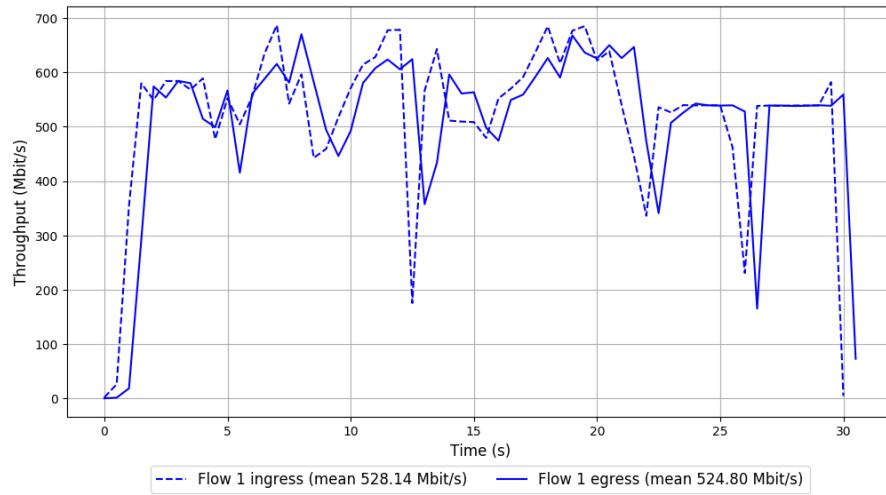


Run 3: Statistics of TCP BBR

```
Start at: 2019-01-18 05:26:56
End at: 2019-01-18 05:27:26
Local clock offset: -0.106 ms
Remote clock offset: 0.049 ms

# Below is generated by plot.py at 2019-01-18 07:20:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 524.80 Mbit/s
95th percentile per-packet one-way delay: 151.098 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 524.80 Mbit/s
95th percentile per-packet one-way delay: 151.098 ms
Loss rate: 0.64%
```

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

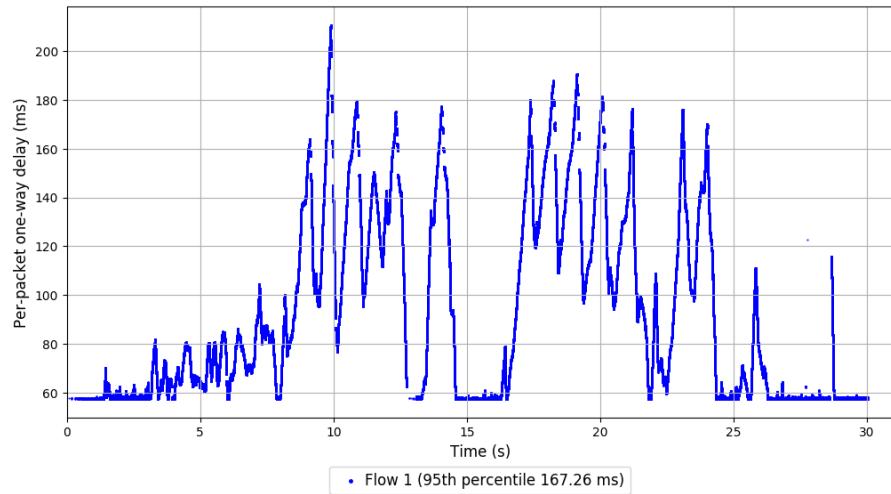
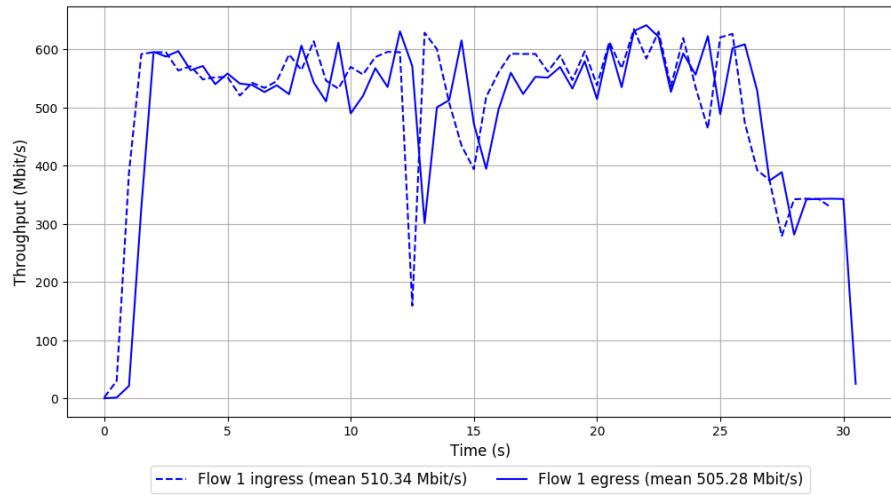


Run 4: Statistics of TCP BBR

```
Start at: 2019-01-18 05:59:38
End at: 2019-01-18 06:00:08
Local clock offset: -0.137 ms
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2019-01-18 07:20:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 505.28 Mbit/s
95th percentile per-packet one-way delay: 167.256 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 505.28 Mbit/s
95th percentile per-packet one-way delay: 167.256 ms
Loss rate: 0.99%
```

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

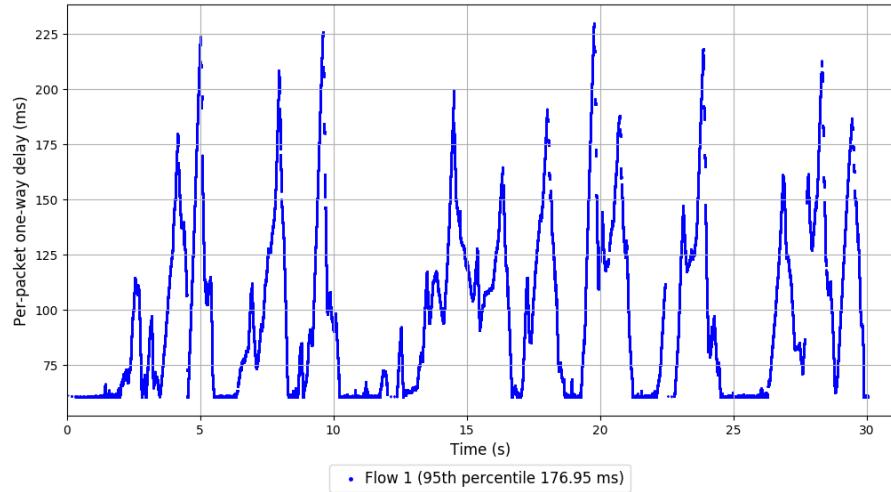
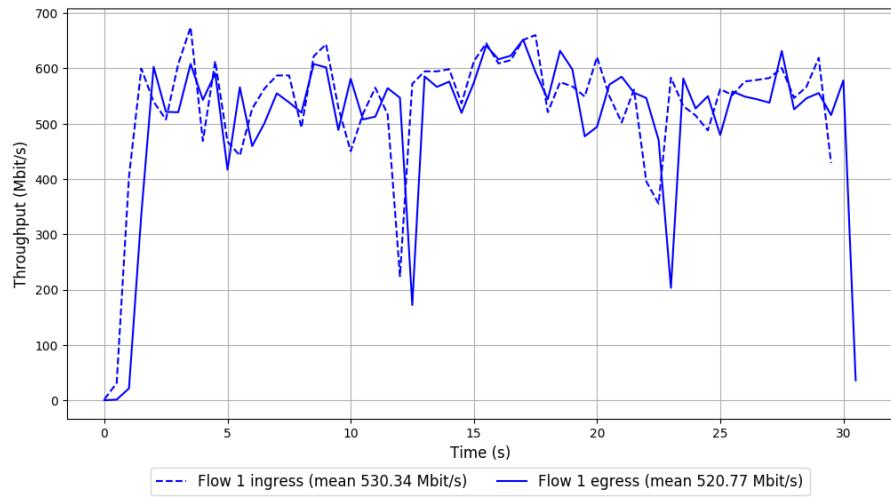


Run 5: Statistics of TCP BBR

```
Start at: 2019-01-18 06:32:32
End at: 2019-01-18 06:33:02
Local clock offset: -0.313 ms
Remote clock offset: -0.157 ms

# Below is generated by plot.py at 2019-01-18 07:20:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 520.77 Mbit/s
95th percentile per-packet one-way delay: 176.949 ms
Loss rate: 1.81%
-- Flow 1:
Average throughput: 520.77 Mbit/s
95th percentile per-packet one-way delay: 176.949 ms
Loss rate: 1.81%
```

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

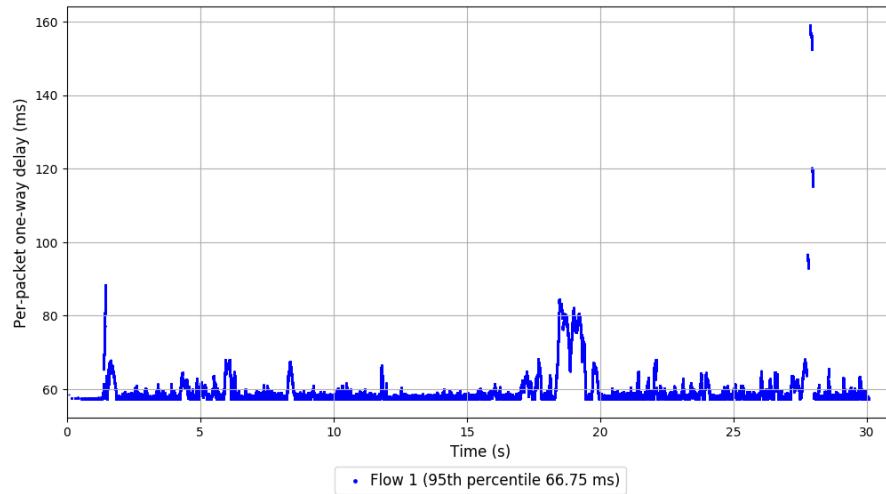
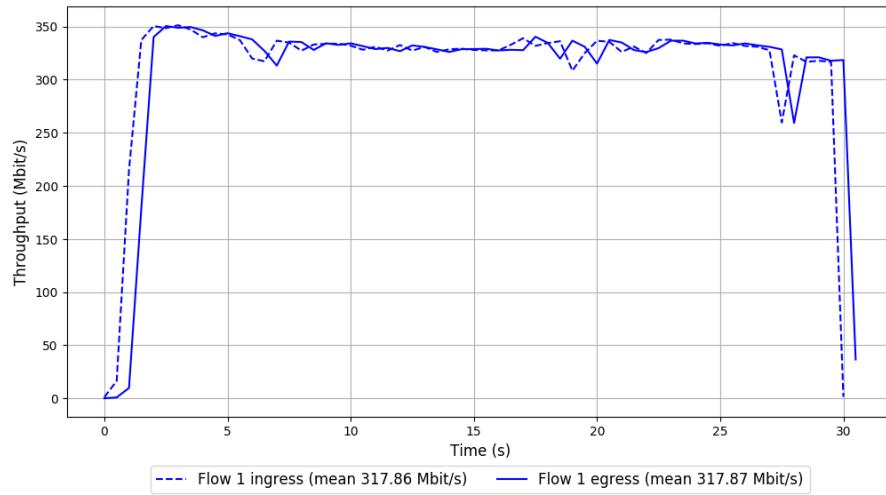


Run 1: Statistics of Copa

```
Start at: 2019-01-18 04:34:23
End at: 2019-01-18 04:34:53
Local clock offset: -0.582 ms
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2019-01-18 07:21:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 317.87 Mbit/s
95th percentile per-packet one-way delay: 66.753 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 317.87 Mbit/s
95th percentile per-packet one-way delay: 66.753 ms
Loss rate: 0.00%
```

### Run 1: Report of Copa — Data Link

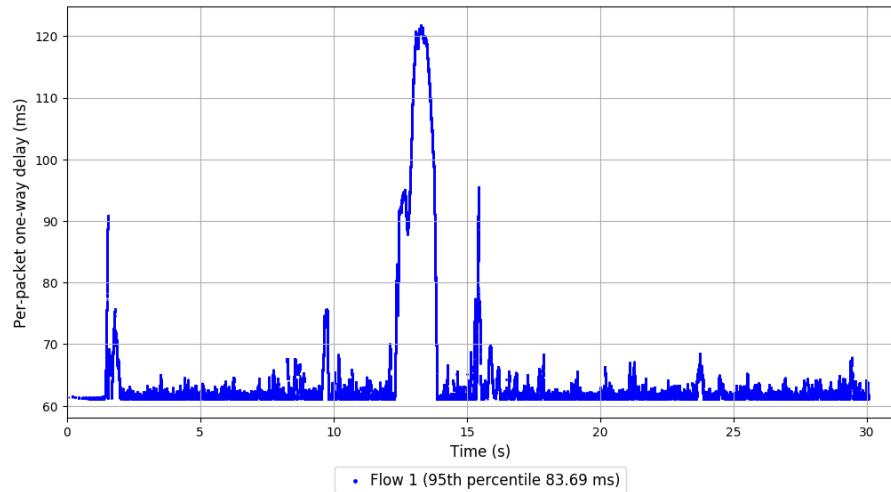
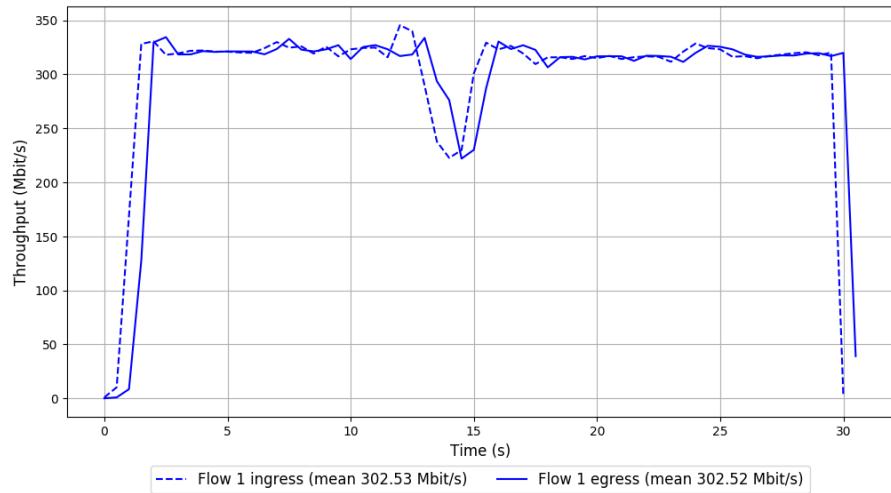


Run 2: Statistics of Copa

```
Start at: 2019-01-18 05:06:06
End at: 2019-01-18 05:06:36
Local clock offset: -0.061 ms
Remote clock offset: 0.617 ms

# Below is generated by plot.py at 2019-01-18 07:21:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 302.52 Mbit/s
95th percentile per-packet one-way delay: 83.692 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 302.52 Mbit/s
95th percentile per-packet one-way delay: 83.692 ms
Loss rate: 0.01%
```

## Run 2: Report of Copa — Data Link

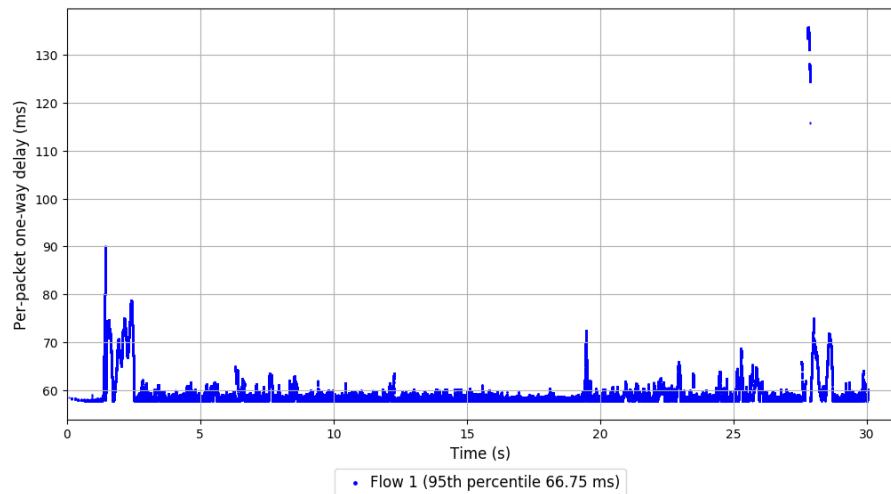
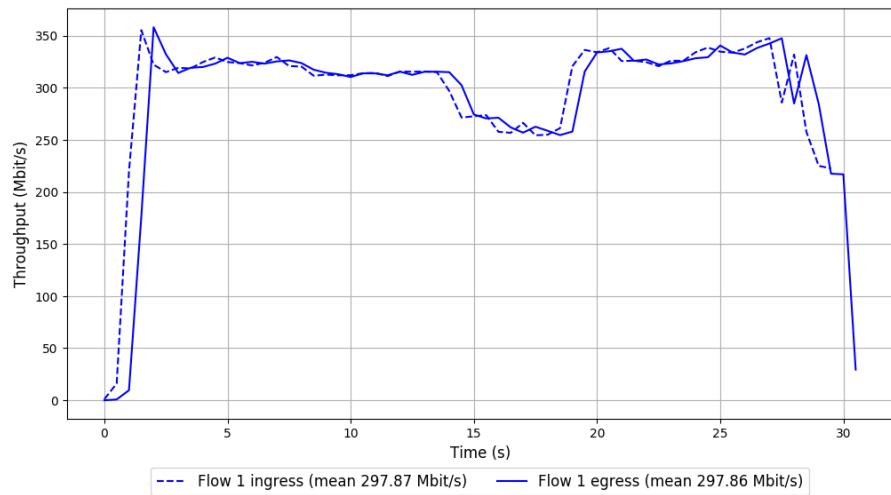


Run 3: Statistics of Copa

```
Start at: 2019-01-18 05:37:53
End at: 2019-01-18 05:38:23
Local clock offset: 0.072 ms
Remote clock offset: 0.671 ms

# Below is generated by plot.py at 2019-01-18 07:21:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 297.86 Mbit/s
95th percentile per-packet one-way delay: 66.752 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 297.86 Mbit/s
95th percentile per-packet one-way delay: 66.752 ms
Loss rate: 0.00%
```

### Run 3: Report of Copa — Data Link

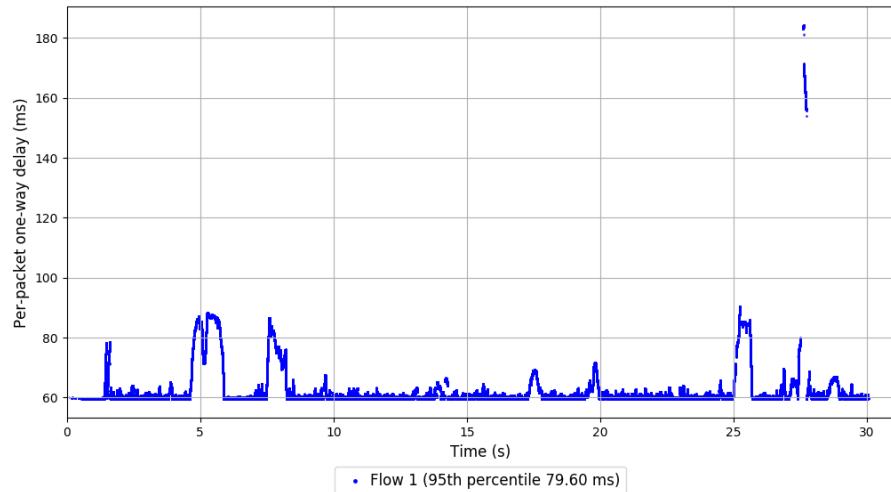
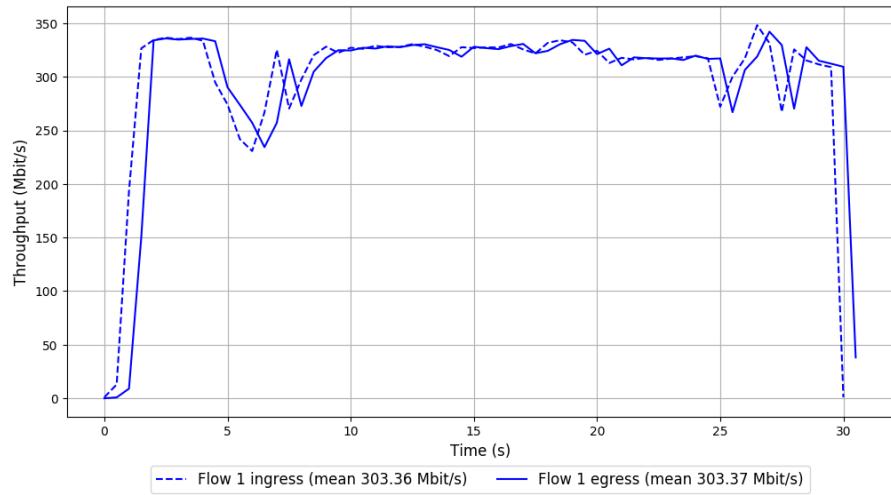


Run 4: Statistics of Copa

```
Start at: 2019-01-18 06:11:28
End at: 2019-01-18 06:11:58
Local clock offset: 0.122 ms
Remote clock offset: -0.575 ms

# Below is generated by plot.py at 2019-01-18 07:30:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 303.37 Mbit/s
95th percentile per-packet one-way delay: 79.603 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 303.37 Mbit/s
95th percentile per-packet one-way delay: 79.603 ms
Loss rate: 0.01%
```

### Run 4: Report of Copa — Data Link

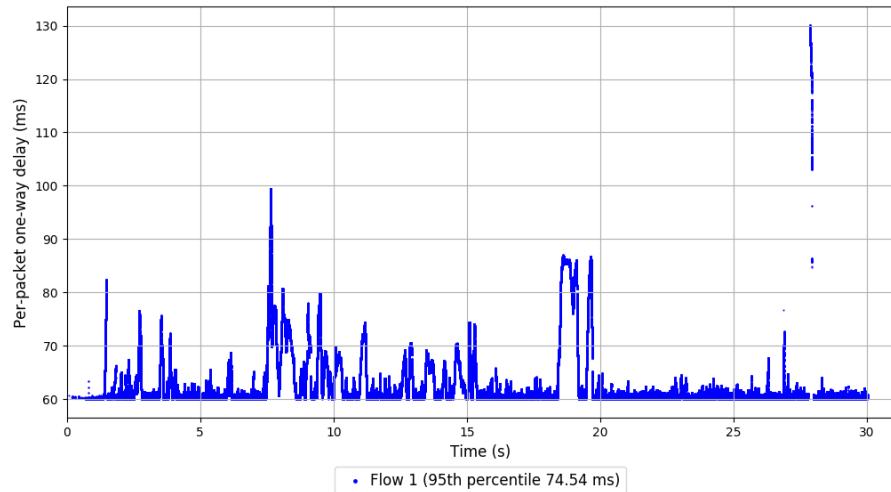
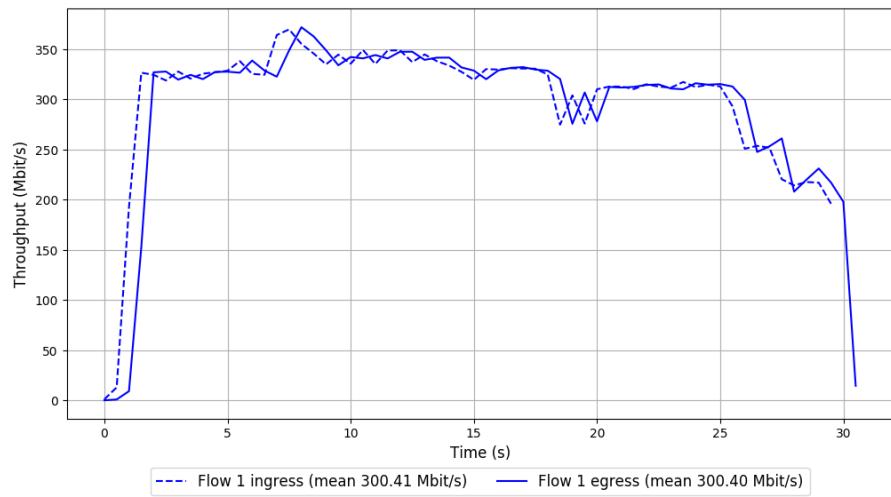


Run 5: Statistics of Copa

```
Start at: 2019-01-18 06:43:21
End at: 2019-01-18 06:43:51
Local clock offset: 0.172 ms
Remote clock offset: -0.14 ms

# Below is generated by plot.py at 2019-01-18 07:31:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 300.40 Mbit/s
95th percentile per-packet one-way delay: 74.542 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 300.40 Mbit/s
95th percentile per-packet one-way delay: 74.542 ms
Loss rate: 0.01%
```

### Run 5: Report of Copa — Data Link

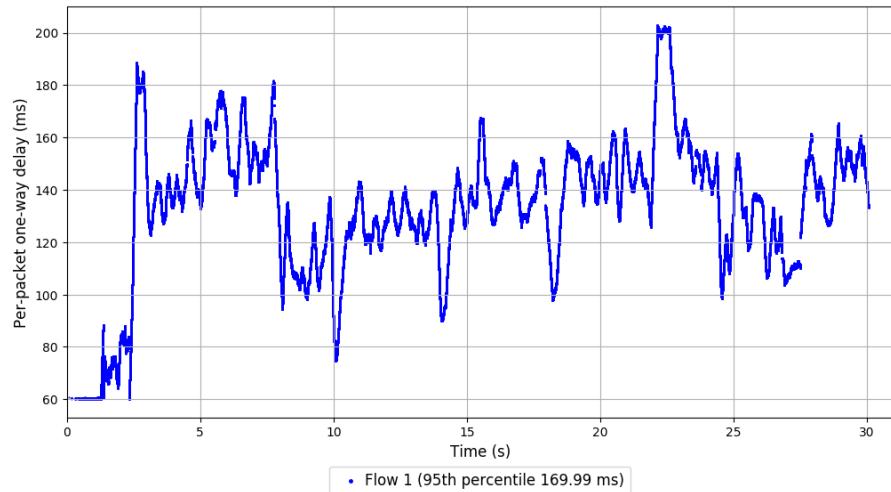
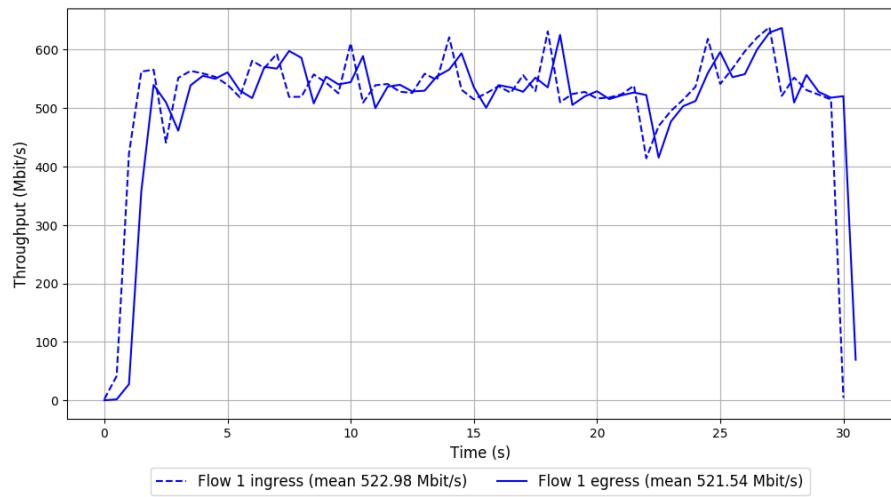


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-01-18 04:25:10
End at: 2019-01-18 04:25:40
Local clock offset: -0.265 ms
Remote clock offset: -0.617 ms

# Below is generated by plot.py at 2019-01-18 07:31:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 521.54 Mbit/s
95th percentile per-packet one-way delay: 169.989 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 521.54 Mbit/s
95th percentile per-packet one-way delay: 169.989 ms
Loss rate: 0.29%
```

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

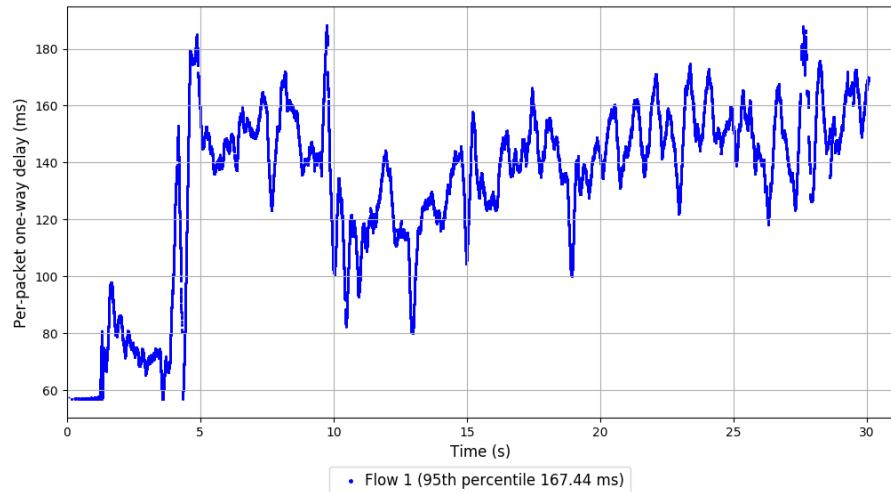
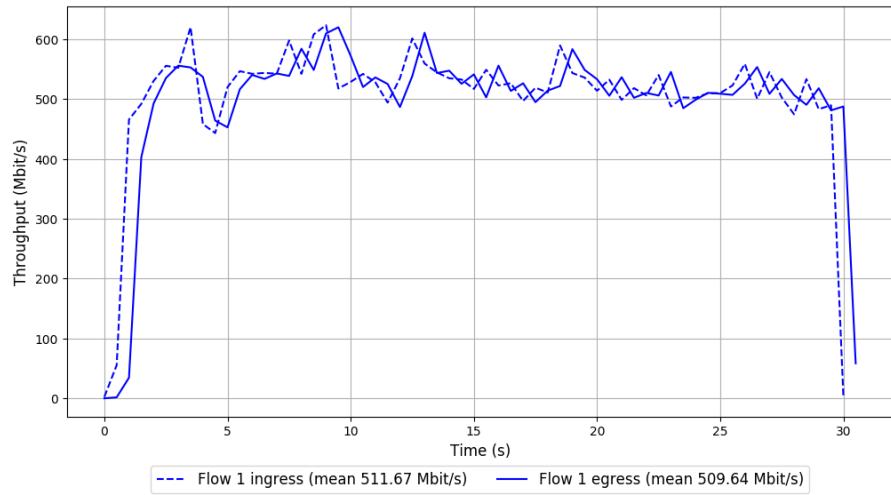


Run 2: Statistics of TCP Cubic

```
Start at: 2019-01-18 04:56:32
End at: 2019-01-18 04:57:02
Local clock offset: 0.451 ms
Remote clock offset: 0.615 ms

# Below is generated by plot.py at 2019-01-18 07:31:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 509.64 Mbit/s
95th percentile per-packet one-way delay: 167.444 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 509.64 Mbit/s
95th percentile per-packet one-way delay: 167.444 ms
Loss rate: 0.39%
```

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

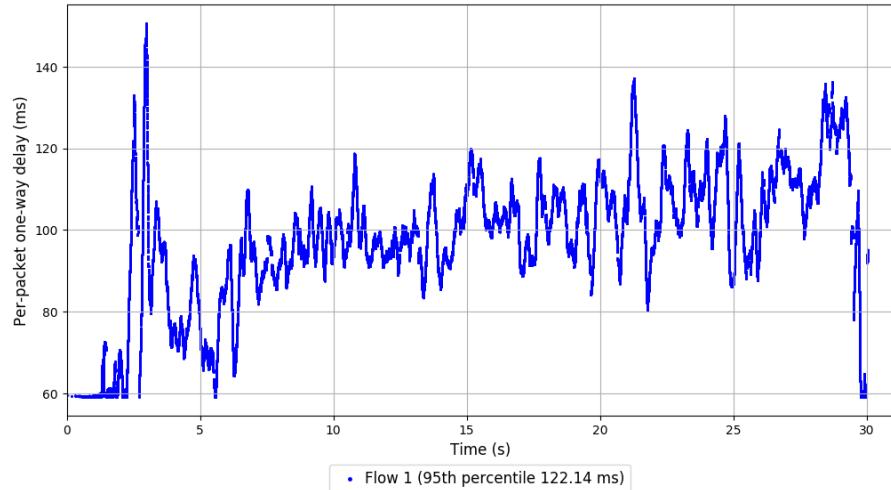
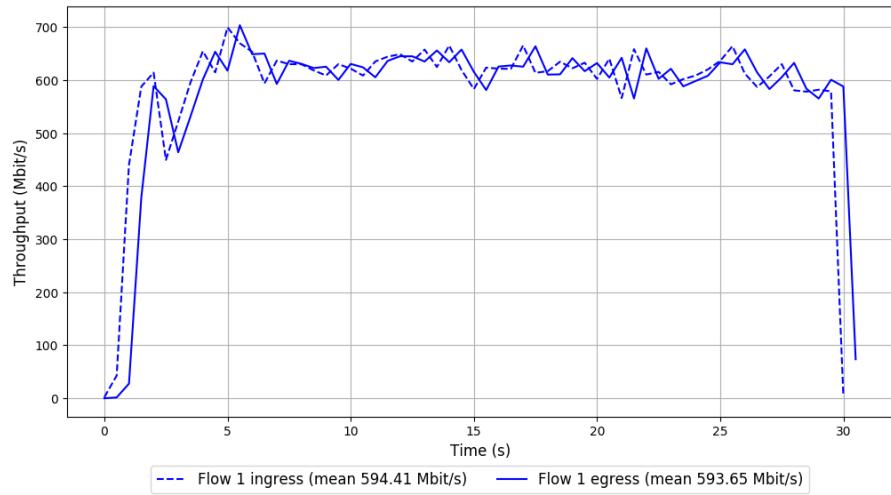


Run 3: Statistics of TCP Cubic

```
Start at: 2019-01-18 05:28:38
End at: 2019-01-18 05:29:08
Local clock offset: 0.297 ms
Remote clock offset: -0.702 ms

# Below is generated by plot.py at 2019-01-18 07:31:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 593.65 Mbit/s
95th percentile per-packet one-way delay: 122.139 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 593.65 Mbit/s
95th percentile per-packet one-way delay: 122.139 ms
Loss rate: 0.13%
```

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

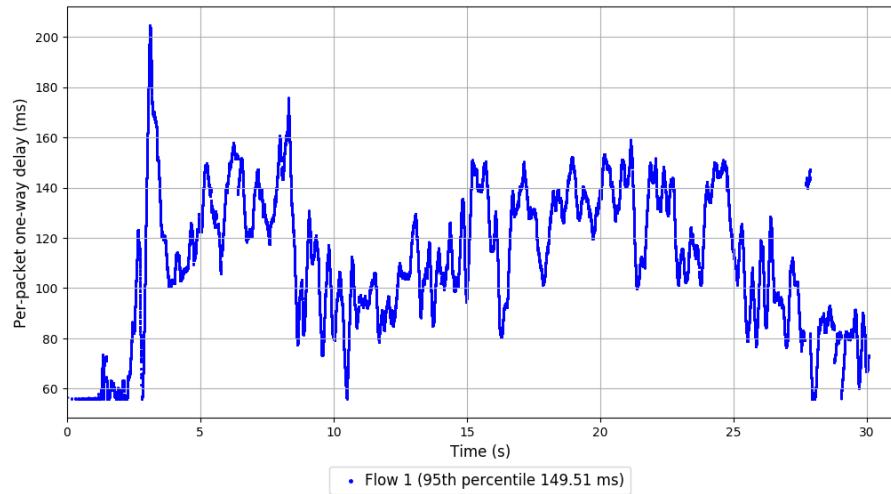
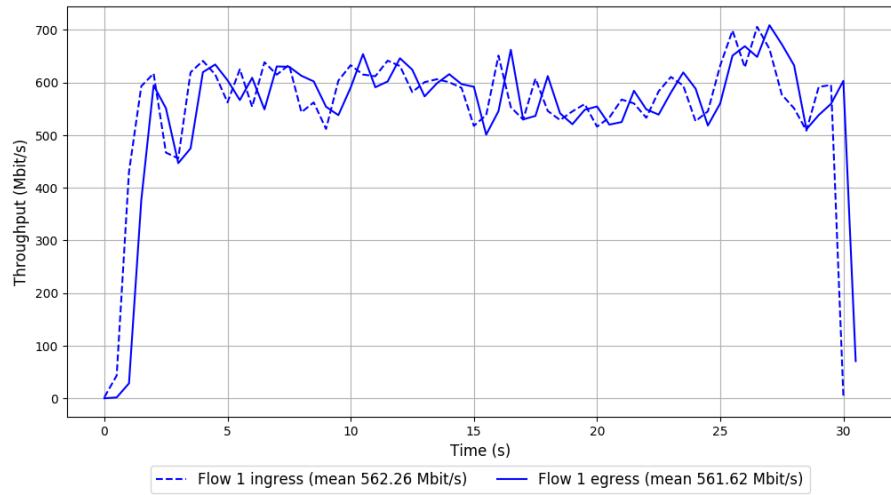


Run 4: Statistics of TCP Cubic

```
Start at: 2019-01-18 06:01:21
End at: 2019-01-18 06:01:51
Local clock offset: 0.262 ms
Remote clock offset: -0.716 ms

# Below is generated by plot.py at 2019-01-18 07:31:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 561.62 Mbit/s
95th percentile per-packet one-way delay: 149.507 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 561.62 Mbit/s
95th percentile per-packet one-way delay: 149.507 ms
Loss rate: 0.11%
```

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

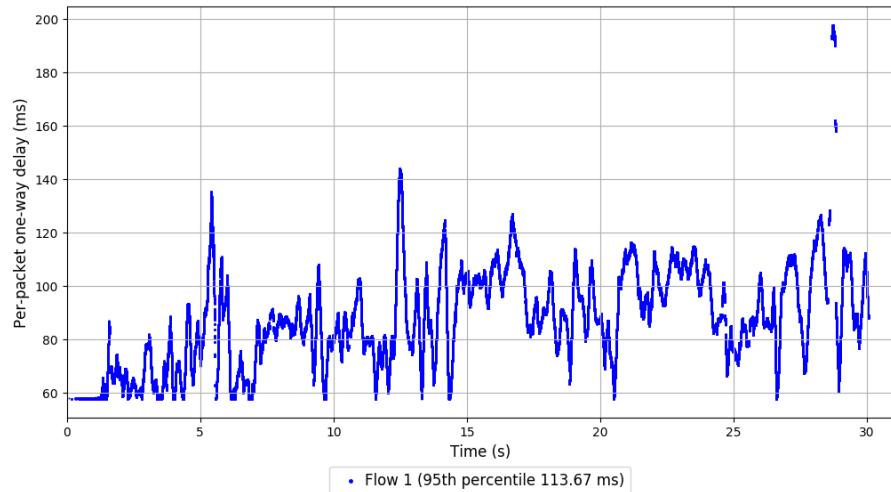
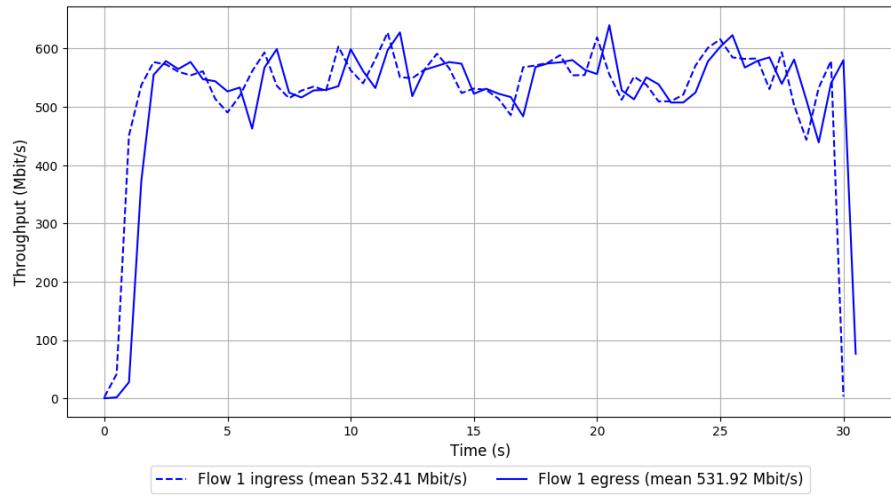


Run 5: Statistics of TCP Cubic

```
Start at: 2019-01-18 06:34:09
End at: 2019-01-18 06:34:39
Local clock offset: -0.414 ms
Remote clock offset: 0.072 ms

# Below is generated by plot.py at 2019-01-18 07:31:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 531.92 Mbit/s
95th percentile per-packet one-way delay: 113.667 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 531.92 Mbit/s
95th percentile per-packet one-way delay: 113.667 ms
Loss rate: 0.09%
```

Run 5: Report of TCP Cubic — Data Link

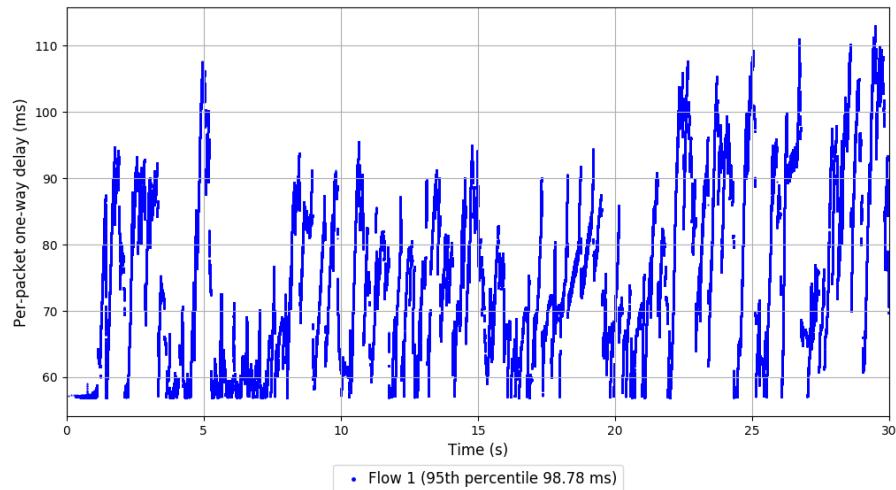
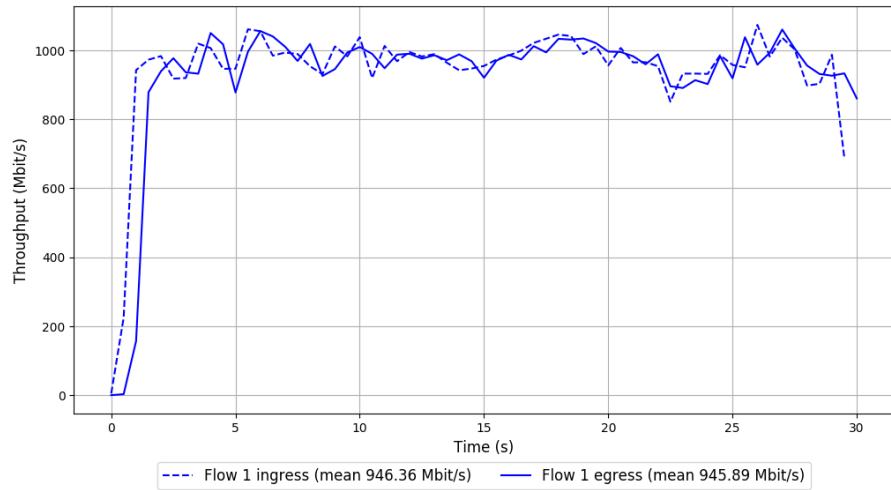


```
Run 1: Statistics of FillP

Start at: 2019-01-18 04:21:38
End at: 2019-01-18 04:22:08
Local clock offset: -0.197 ms
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2019-01-18 07:40:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 945.89 Mbit/s
95th percentile per-packet one-way delay: 98.782 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 945.89 Mbit/s
95th percentile per-packet one-way delay: 98.782 ms
Loss rate: 0.03%
```

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

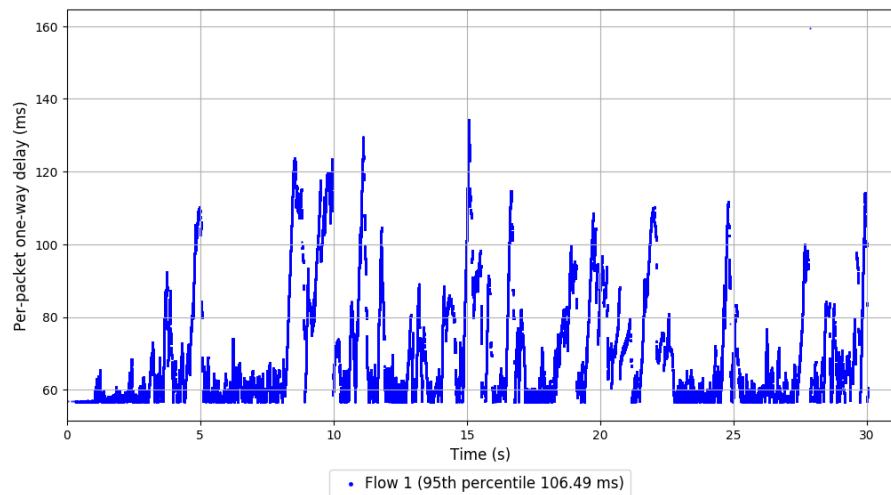
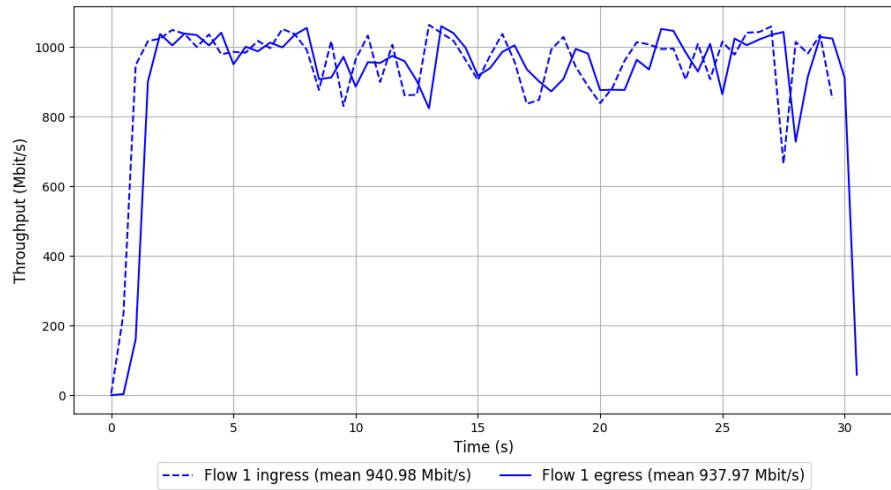


```
Run 2: Statistics of FillP
```

```
Start at: 2019-01-18 04:53:09
End at: 2019-01-18 04:53:39
Local clock offset: 0.352 ms
Remote clock offset: 0.047 ms

# Below is generated by plot.py at 2019-01-18 07:51:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 937.97 Mbit/s
95th percentile per-packet one-way delay: 106.493 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 937.97 Mbit/s
95th percentile per-packet one-way delay: 106.493 ms
Loss rate: 0.32%
```

## Run 2: Report of FillP — Data Link

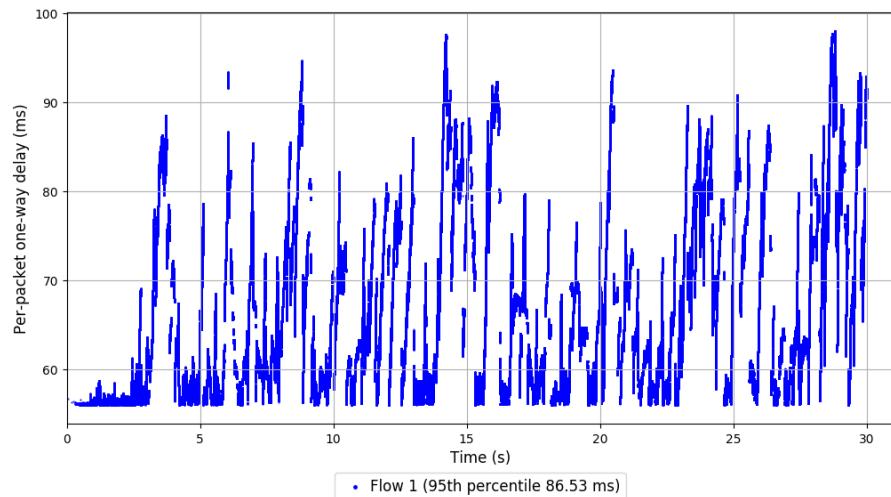
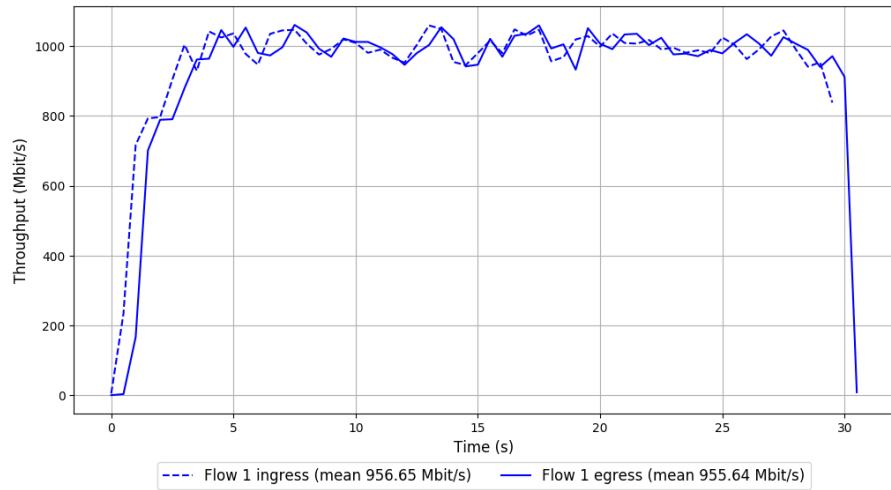


Run 3: Statistics of FillP

```
Start at: 2019-01-18 05:25:04
End at: 2019-01-18 05:25:34
Local clock offset: 0.002 ms
Remote clock offset: -0.636 ms

# Below is generated by plot.py at 2019-01-18 07:52:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 955.64 Mbit/s
95th percentile per-packet one-way delay: 86.534 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 955.64 Mbit/s
95th percentile per-packet one-way delay: 86.534 ms
Loss rate: 0.10%
```

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

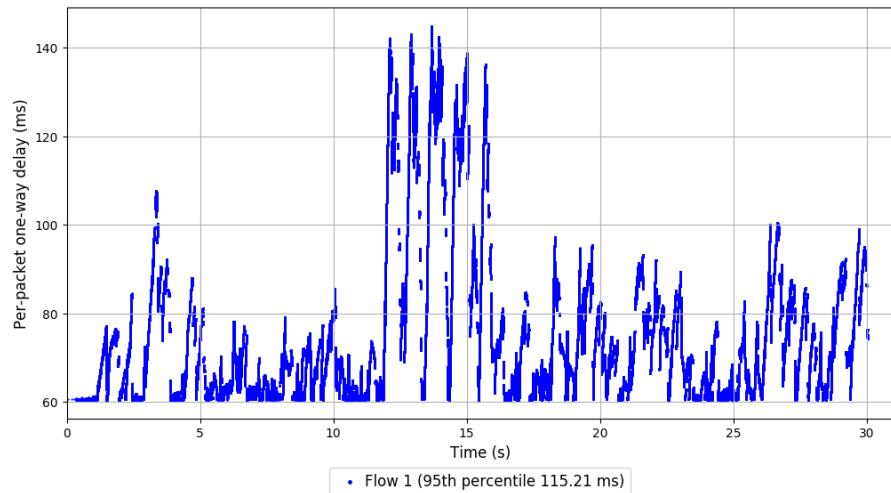
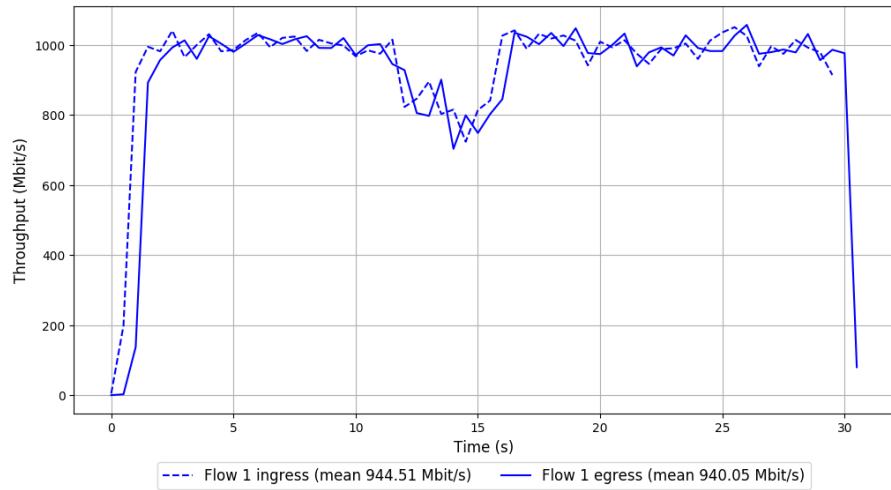


Run 4: Statistics of FillP

```
Start at: 2019-01-18 05:57:35
End at: 2019-01-18 05:58:05
Local clock offset: 0.169 ms
Remote clock offset: 0.506 ms

# Below is generated by plot.py at 2019-01-18 07:52:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 940.05 Mbit/s
95th percentile per-packet one-way delay: 115.214 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 940.05 Mbit/s
95th percentile per-packet one-way delay: 115.214 ms
Loss rate: 0.48%
```

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

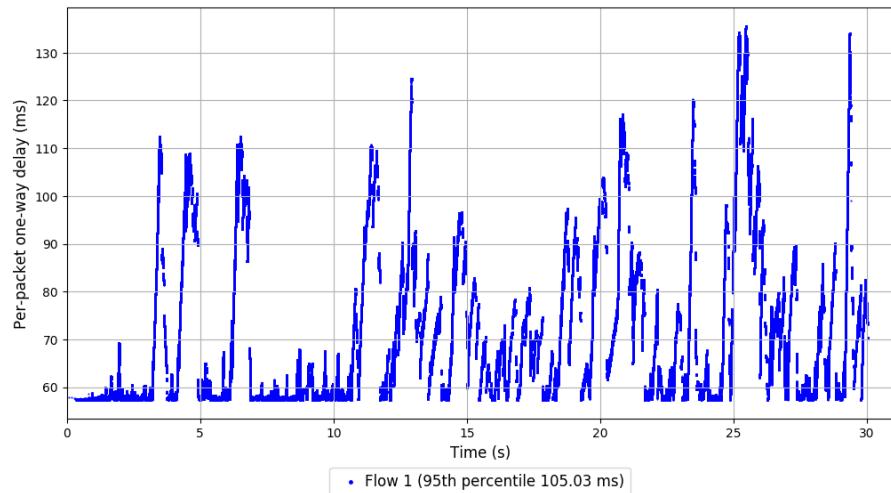
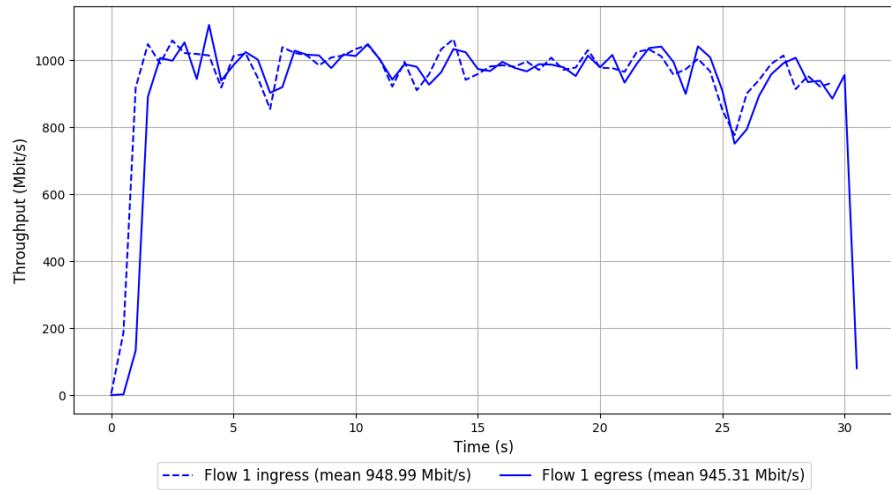


```
Run 5: Statistics of FillP
```

```
Start at: 2019-01-18 06:30:46
End at: 2019-01-18 06:31:16
Local clock offset: 0.222 ms
Remote clock offset: 0.433 ms

# Below is generated by plot.py at 2019-01-18 07:52:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 945.31 Mbit/s
95th percentile per-packet one-way delay: 105.027 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 945.31 Mbit/s
95th percentile per-packet one-way delay: 105.027 ms
Loss rate: 0.39%
```

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

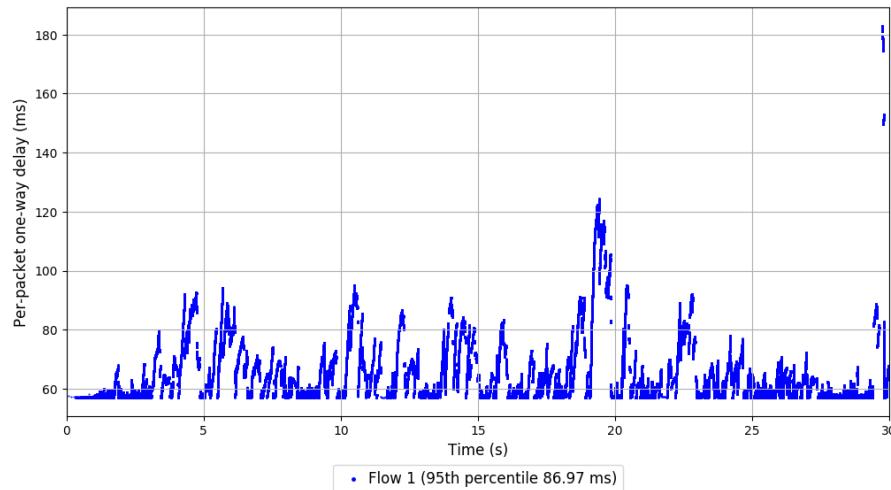
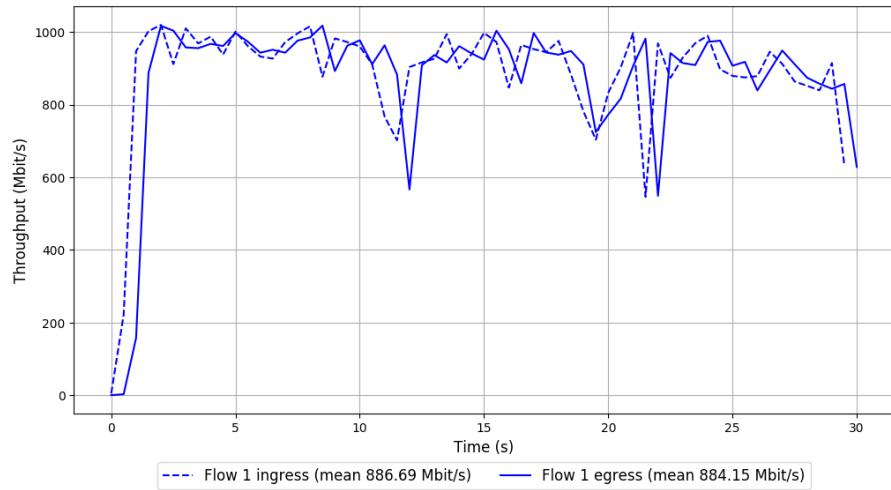


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-01-18 04:32:38
End at: 2019-01-18 04:33:09
Local clock offset: -0.425 ms
Remote clock offset: 0.005 ms

# Below is generated by plot.py at 2019-01-18 07:52:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 884.15 Mbit/s
95th percentile per-packet one-way delay: 86.967 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 884.15 Mbit/s
95th percentile per-packet one-way delay: 86.967 ms
Loss rate: 0.28%
```

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

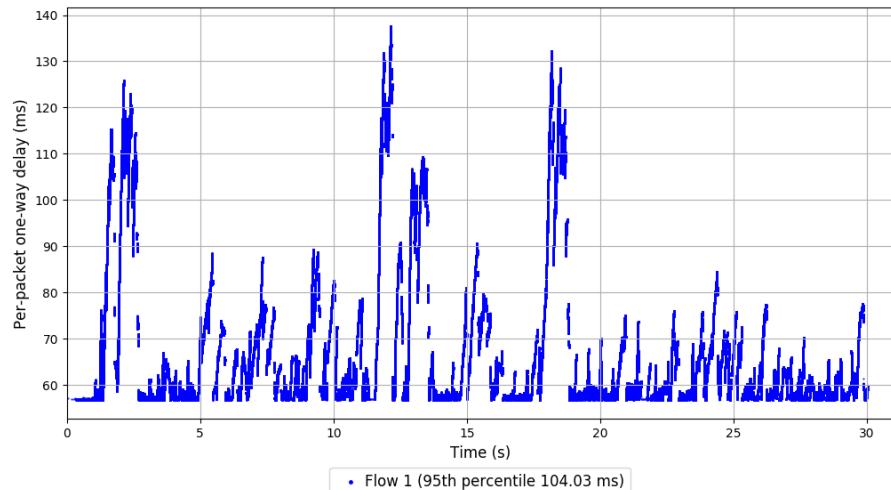
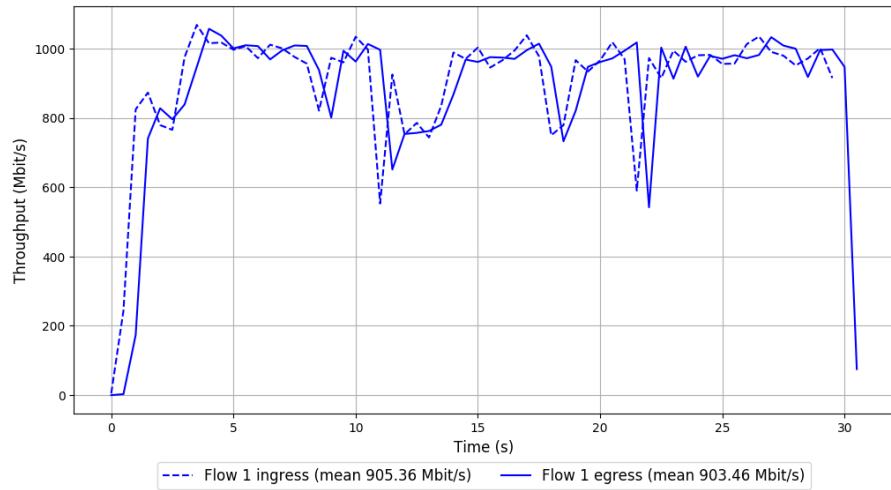


```
Run 2: Statistics of FillP-Sheep
```

```
Start at: 2019-01-18 05:04:16
End at: 2019-01-18 05:04:46
Local clock offset: 0.249 ms
Remote clock offset: 0.021 ms

# Below is generated by plot.py at 2019-01-18 07:52:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 903.46 Mbit/s
95th percentile per-packet one-way delay: 104.028 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 903.46 Mbit/s
95th percentile per-packet one-way delay: 104.028 ms
Loss rate: 0.21%
```

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

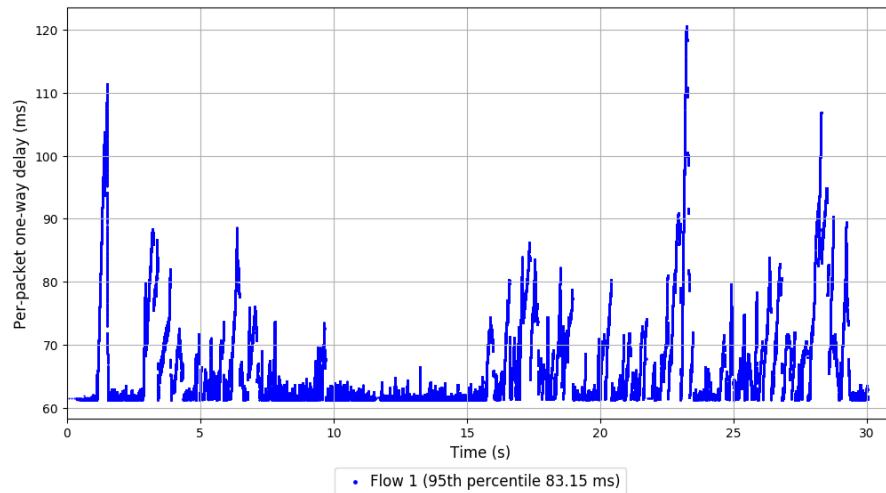
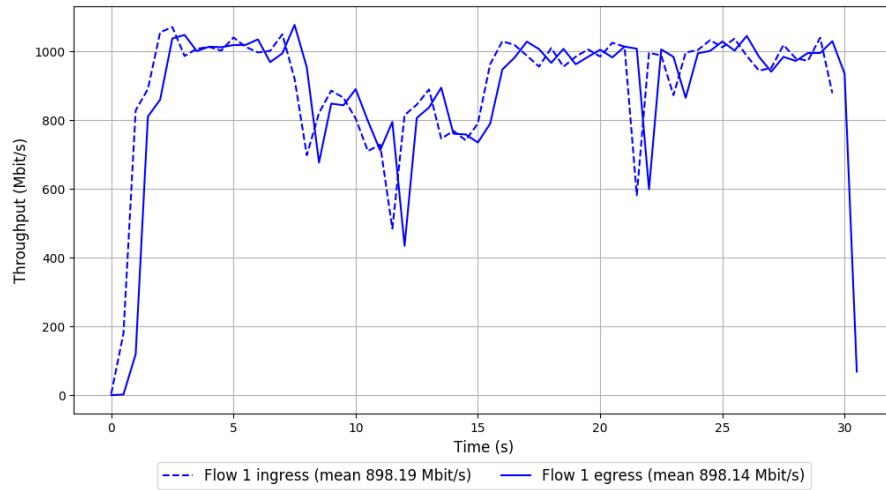


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-01-18 05:36:07
End at: 2019-01-18 05:36:38
Local clock offset: -0.357 ms
Remote clock offset: 0.634 ms

# Below is generated by plot.py at 2019-01-18 07:52:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 898.14 Mbit/s
95th percentile per-packet one-way delay: 83.152 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 898.14 Mbit/s
95th percentile per-packet one-way delay: 83.152 ms
Loss rate: 0.01%
```

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

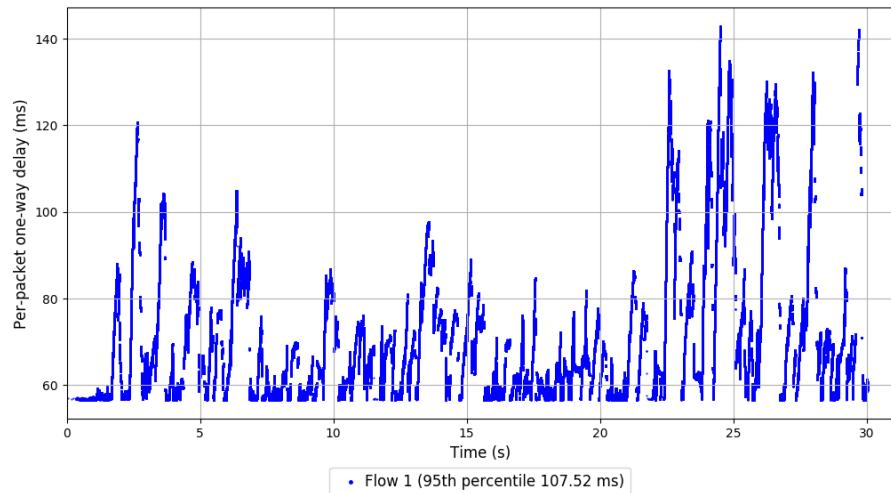
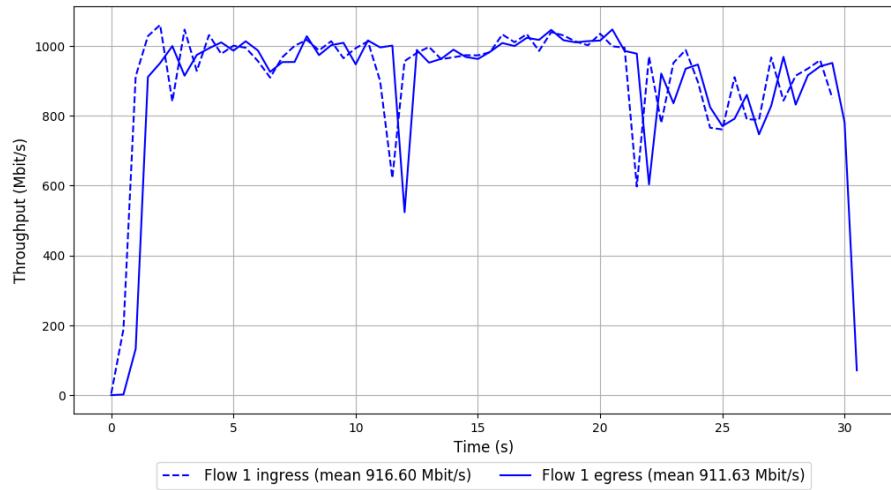


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-01-18 06:09:34
End at: 2019-01-18 06:10:04
Local clock offset: -0.422 ms
Remote clock offset: -0.816 ms

# Below is generated by plot.py at 2019-01-18 08:03:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 911.63 Mbit/s
95th percentile per-packet one-way delay: 107.518 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 911.63 Mbit/s
95th percentile per-packet one-way delay: 107.518 ms
Loss rate: 0.54%
```

Run 4: Report of FillP-Sheep — Data Link

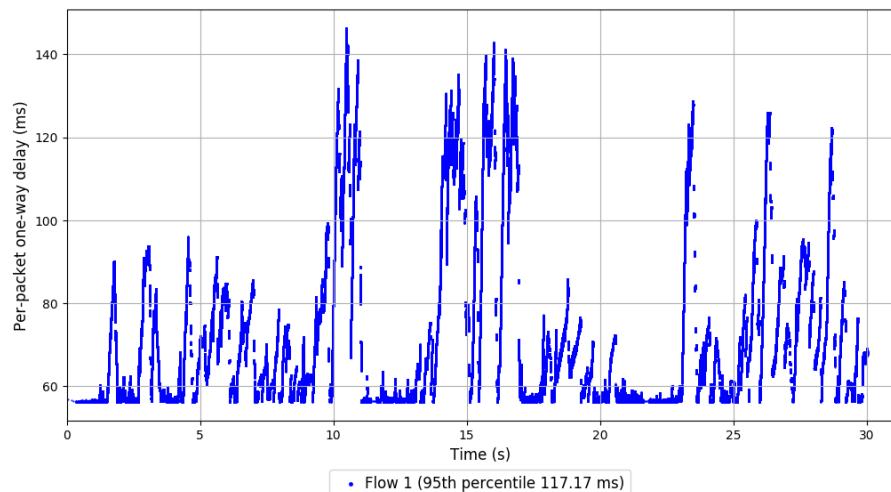
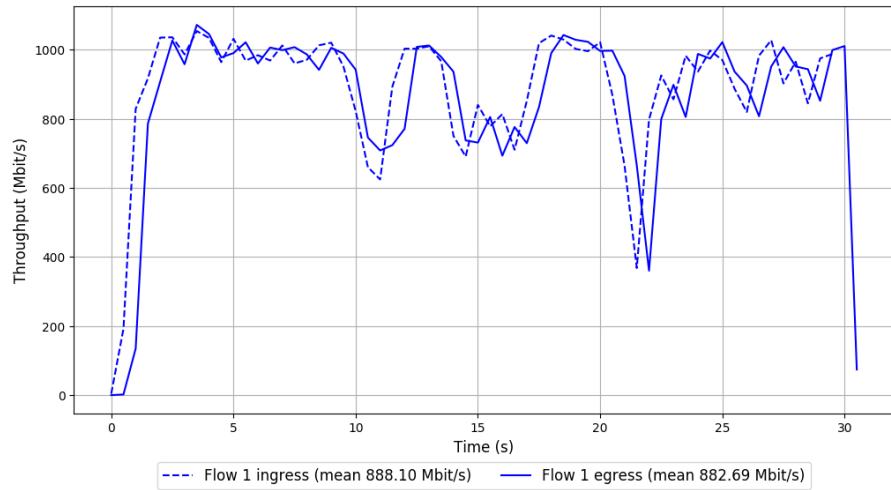


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-01-18 06:41:38
End at: 2019-01-18 06:42:08
Local clock offset: -0.36 ms
Remote clock offset: -0.854 ms

# Below is generated by plot.py at 2019-01-18 08:11:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 882.69 Mbit/s
95th percentile per-packet one-way delay: 117.175 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 882.69 Mbit/s
95th percentile per-packet one-way delay: 117.175 ms
Loss rate: 0.61%
```

Run 5: Report of FillP-Sheep — Data Link

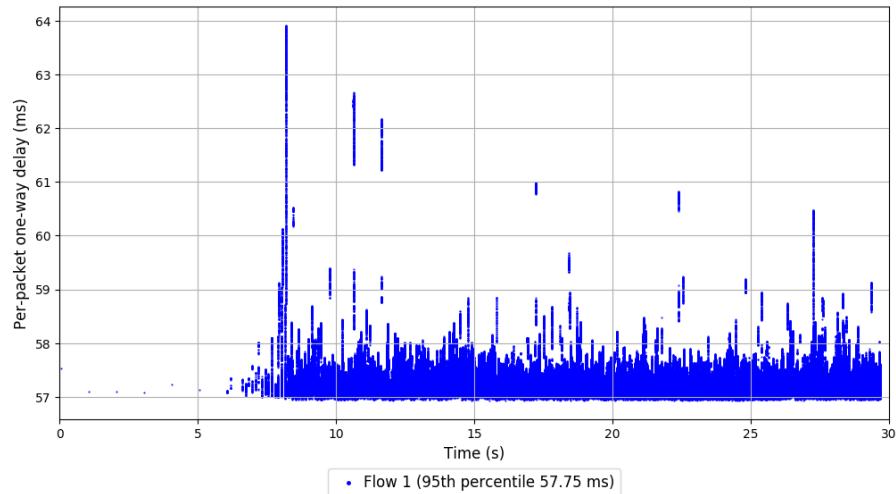
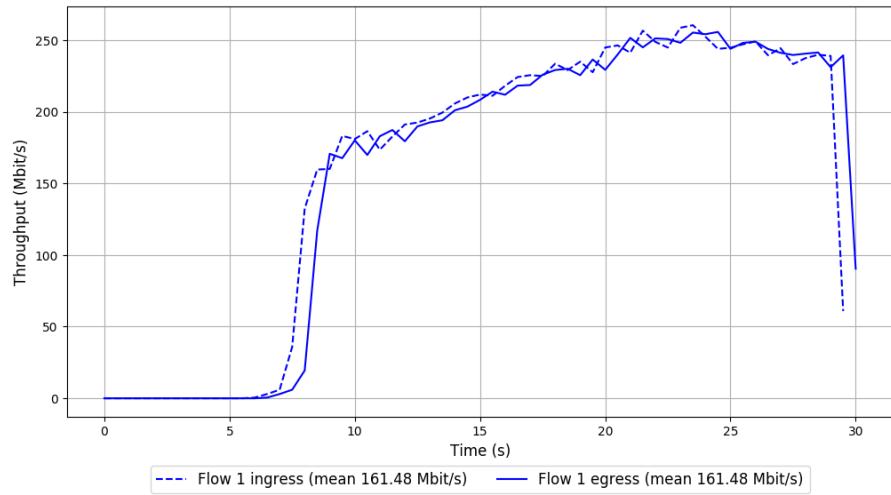


Run 1: Statistics of Indigo

```
Start at: 2019-01-18 04:26:46
End at: 2019-01-18 04:27:17
Local clock offset: -0.15 ms
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2019-01-18 08:11:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 161.48 Mbit/s
95th percentile per-packet one-way delay: 57.749 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 161.48 Mbit/s
95th percentile per-packet one-way delay: 57.749 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

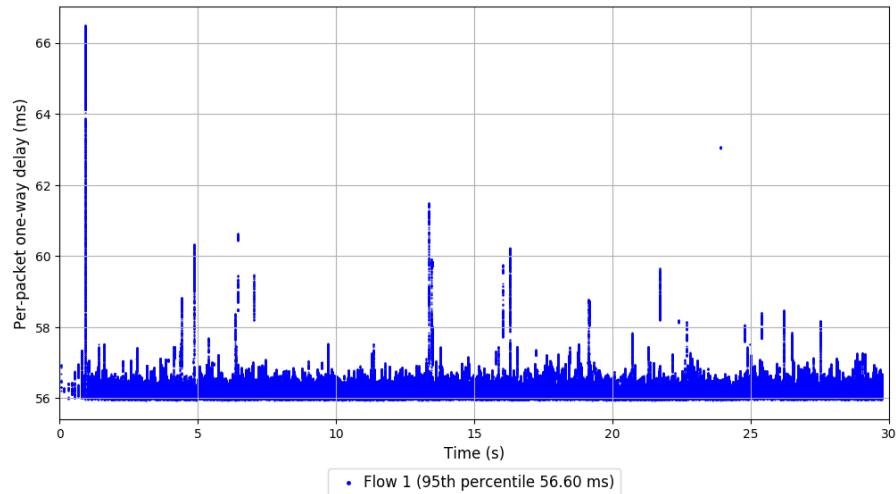
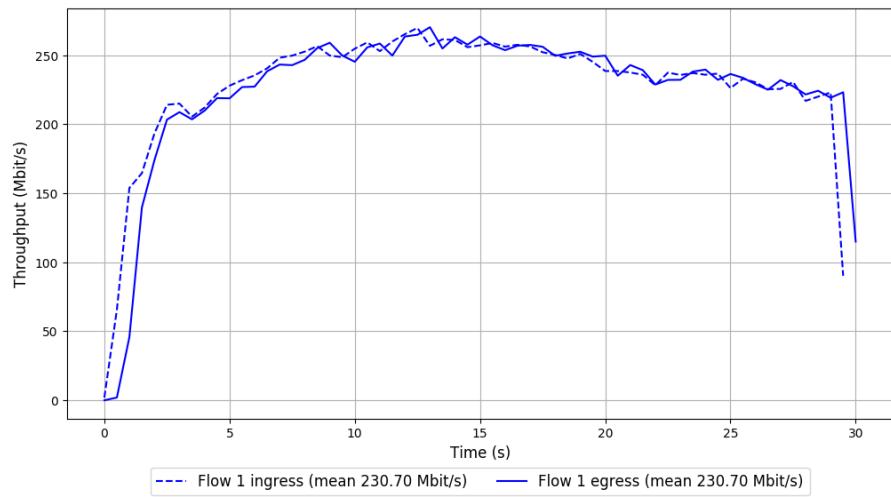


Run 2: Statistics of Indigo

```
Start at: 2019-01-18 04:58:06
End at: 2019-01-18 04:58:36
Local clock offset: -0.298 ms
Remote clock offset: -1.296 ms

# Below is generated by plot.py at 2019-01-18 08:11:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 230.70 Mbit/s
95th percentile per-packet one-way delay: 56.603 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 230.70 Mbit/s
95th percentile per-packet one-way delay: 56.603 ms
Loss rate: 0.00%
```

## Run 2: Report of Indigo — Data Link

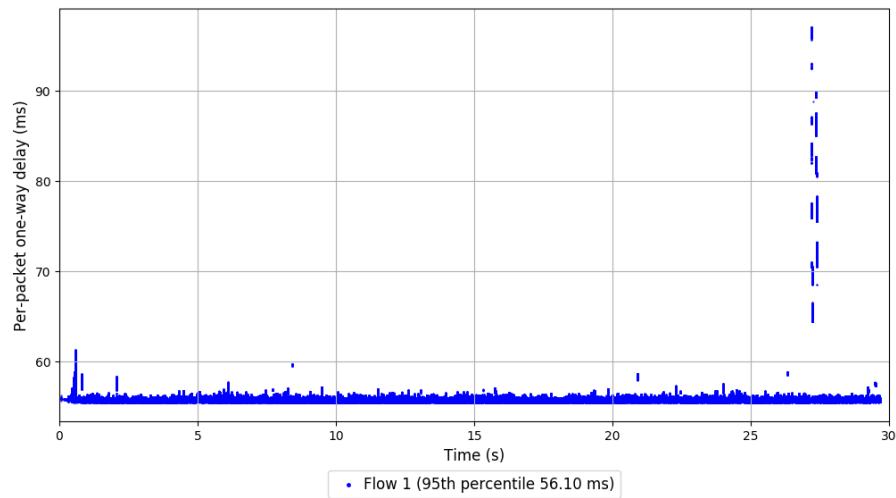
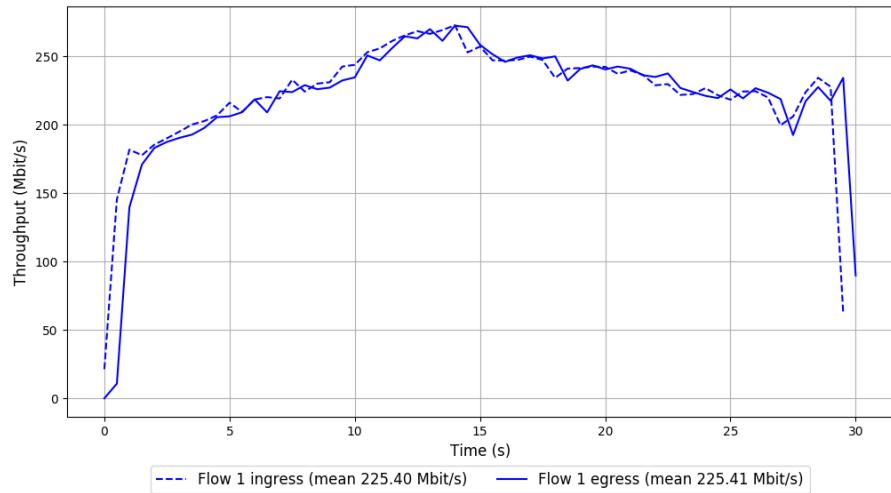


Run 3: Statistics of Indigo

```
Start at: 2019-01-18 05:30:19
End at: 2019-01-18 05:30:49
Local clock offset: 0.235 ms
Remote clock offset: -1.285 ms

# Below is generated by plot.py at 2019-01-18 08:11:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 225.41 Mbit/s
95th percentile per-packet one-way delay: 56.097 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 225.41 Mbit/s
95th percentile per-packet one-way delay: 56.097 ms
Loss rate: 0.00%
```

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

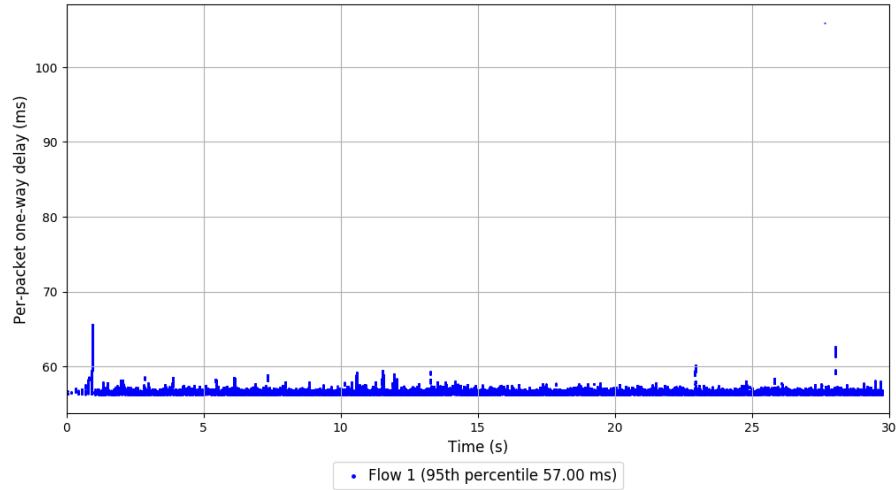
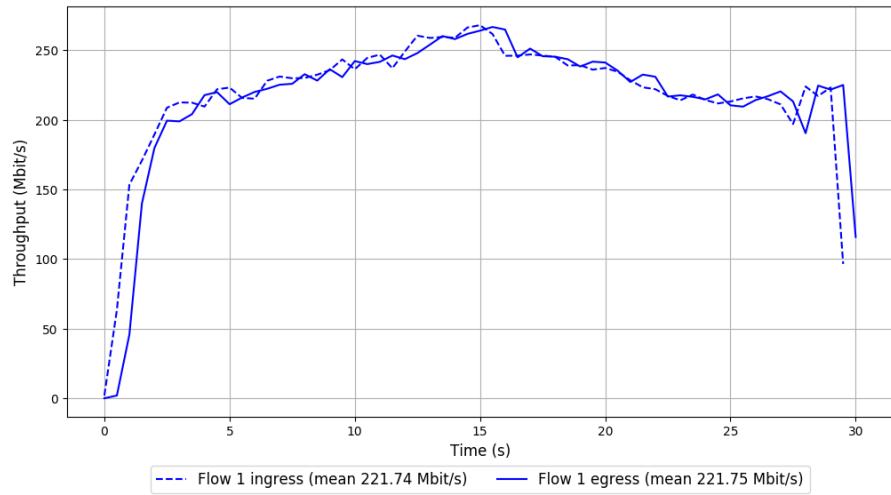


Run 4: Statistics of Indigo

```
Start at: 2019-01-18 06:03:10
End at: 2019-01-18 06:03:40
Local clock offset: 0.448 ms
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2019-01-18 08:11:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 221.75 Mbit/s
95th percentile per-packet one-way delay: 57.003 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 221.75 Mbit/s
95th percentile per-packet one-way delay: 57.003 ms
Loss rate: 0.00%
```

## Run 4: Report of Indigo — Data Link

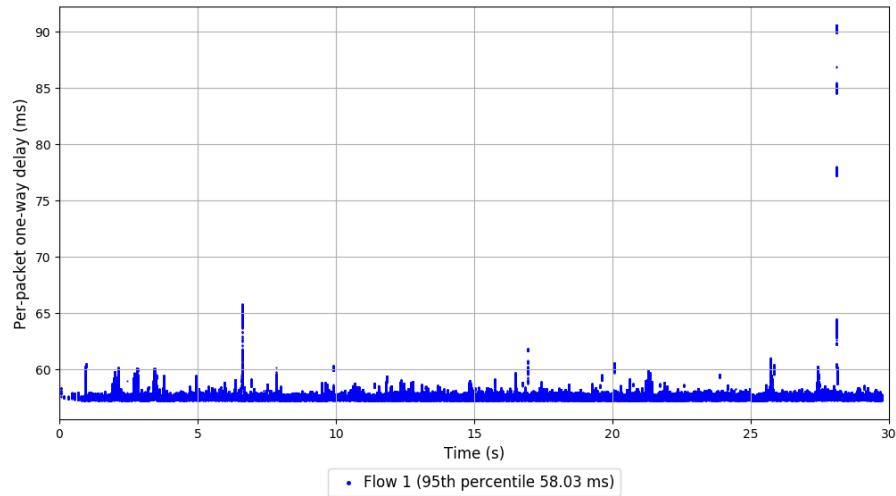
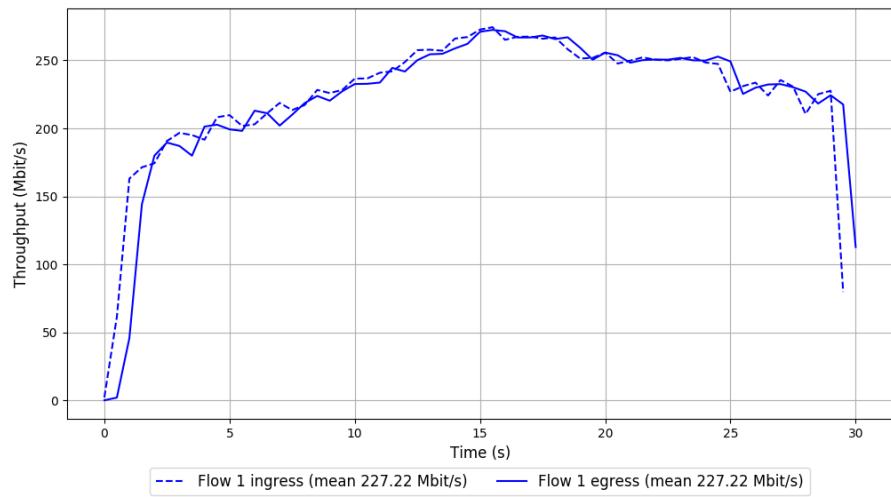


Run 5: Statistics of Indigo

```
Start at: 2019-01-18 06:35:43
End at: 2019-01-18 06:36:13
Local clock offset: -0.398 ms
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2019-01-18 08:11:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 227.22 Mbit/s
95th percentile per-packet one-way delay: 58.027 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 227.22 Mbit/s
95th percentile per-packet one-way delay: 58.027 ms
Loss rate: 0.00%
```

## Run 5: Report of Indigo — Data Link

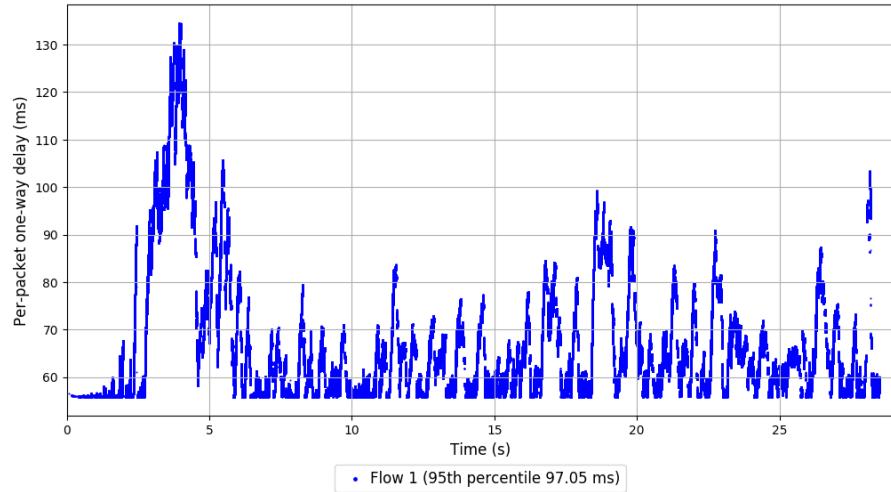
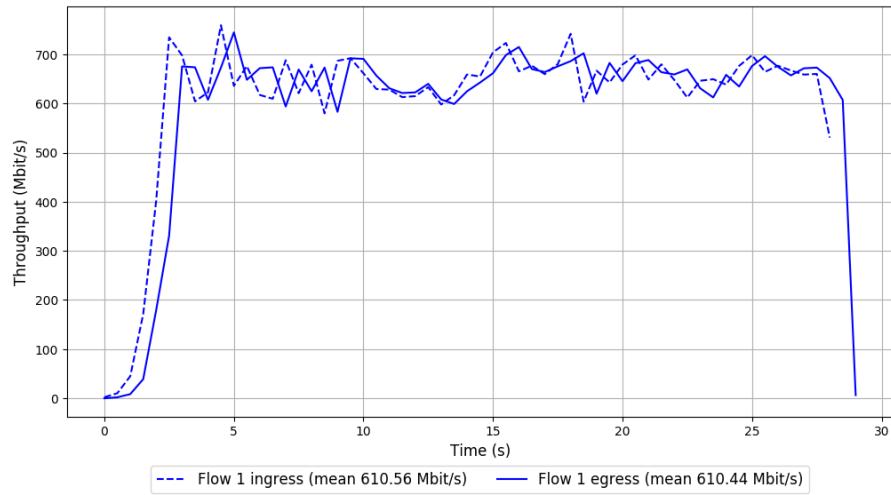


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-01-18 04:48:46
End at: 2019-01-18 04:49:16
Local clock offset: -0.085 ms
Remote clock offset: -1.328 ms

# Below is generated by plot.py at 2019-01-18 08:11:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 610.44 Mbit/s
95th percentile per-packet one-way delay: 97.054 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 610.44 Mbit/s
95th percentile per-packet one-way delay: 97.054 ms
Loss rate: 0.02%
```

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

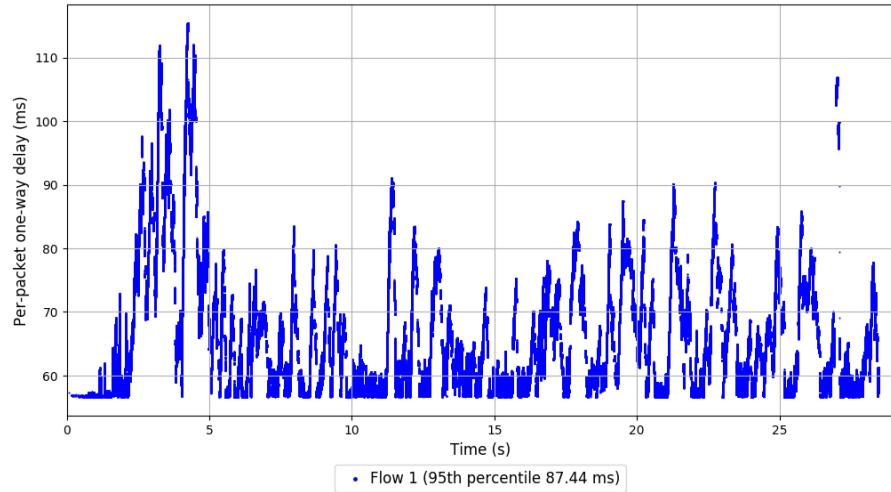
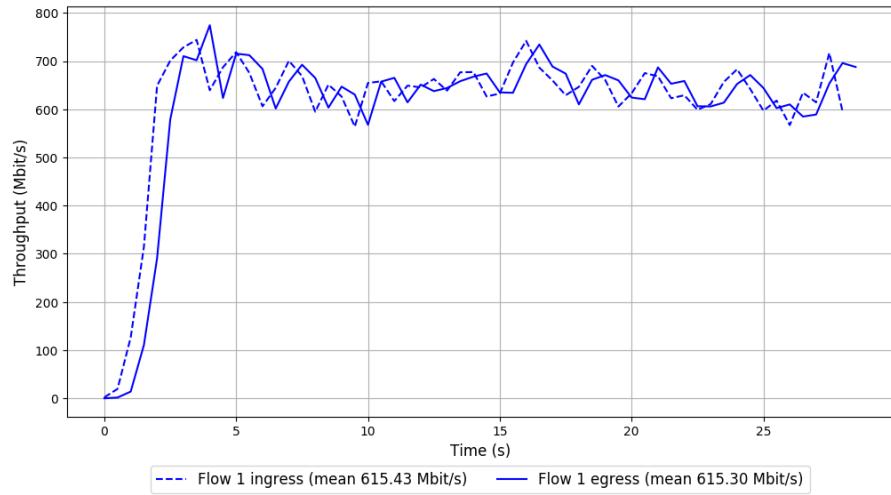


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-01-18 05:20:43
End at: 2019-01-18 05:21:13
Local clock offset: 0.28 ms
Remote clock offset: 0.028 ms

# Below is generated by plot.py at 2019-01-18 08:11:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 615.30 Mbit/s
95th percentile per-packet one-way delay: 87.442 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 615.30 Mbit/s
95th percentile per-packet one-way delay: 87.442 ms
Loss rate: 0.02%
```

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

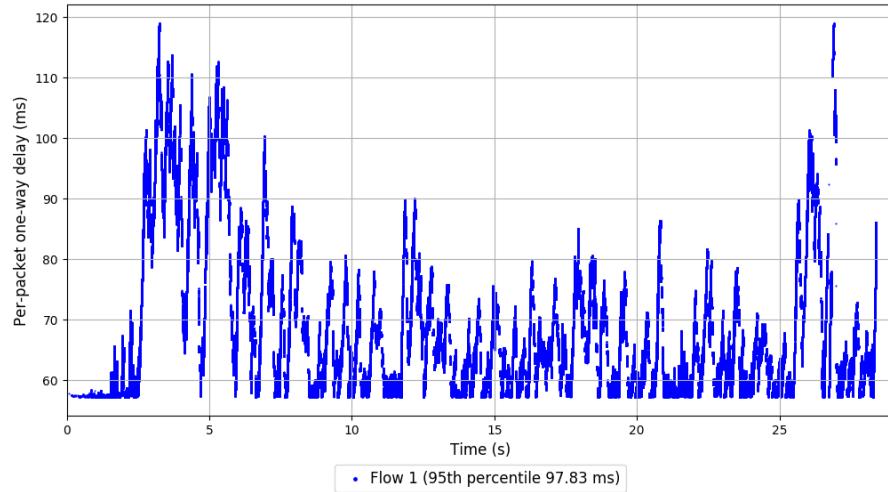
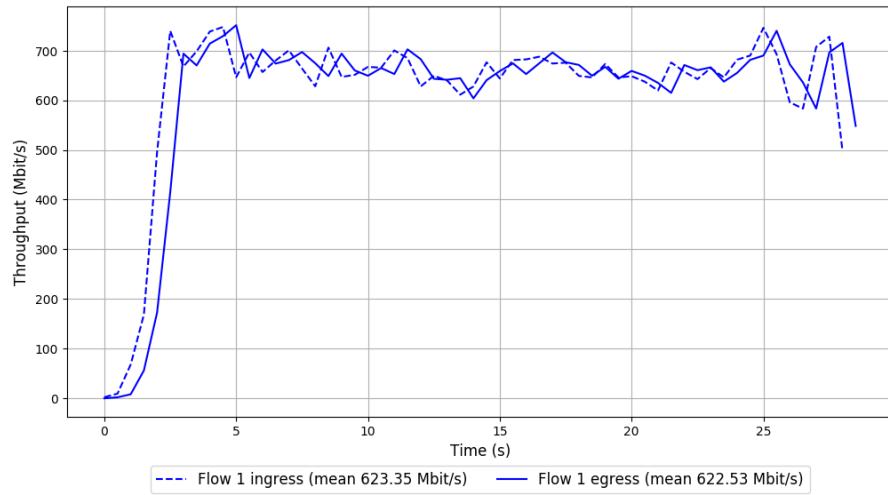


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-01-18 05:53:03
End at: 2019-01-18 05:53:33
Local clock offset: -0.142 ms
Remote clock offset: 0.288 ms

# Below is generated by plot.py at 2019-01-18 08:11:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 622.53 Mbit/s
95th percentile per-packet one-way delay: 97.825 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 622.53 Mbit/s
95th percentile per-packet one-way delay: 97.825 ms
Loss rate: 0.13%
```

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

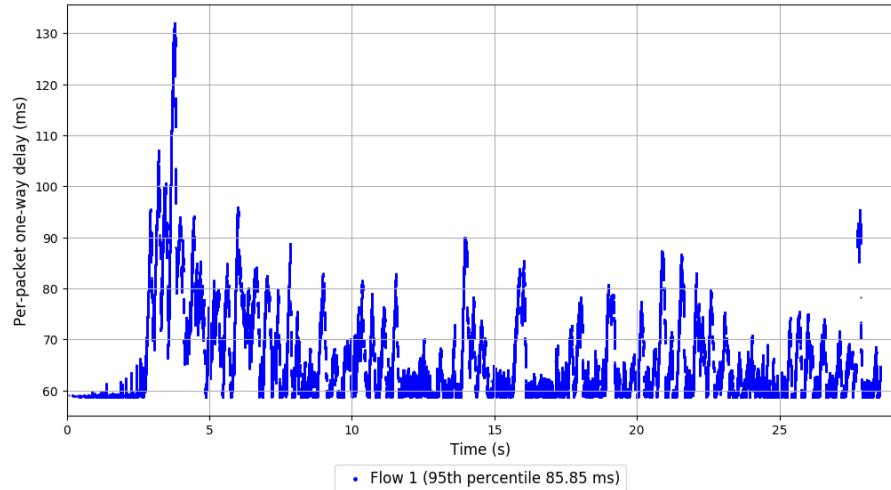
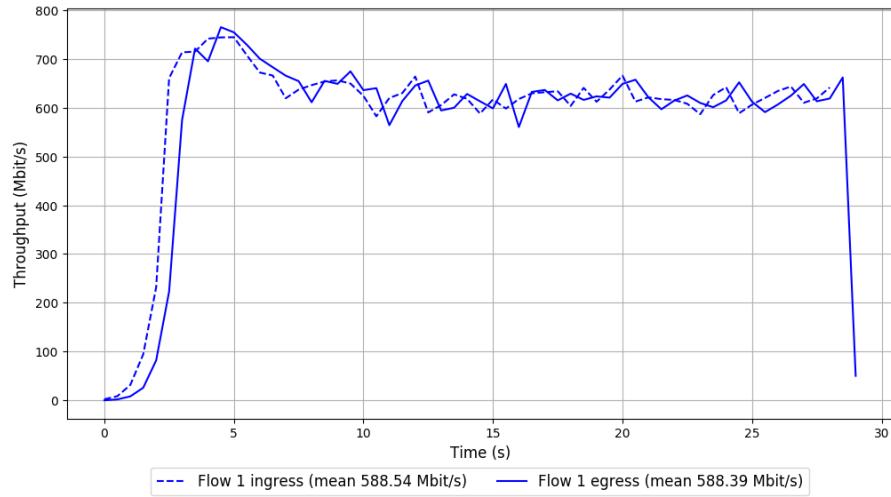


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-01-18 06:26:25
End at: 2019-01-18 06:26:55
Local clock offset: 0.073 ms
Remote clock offset: -1.424 ms

# Below is generated by plot.py at 2019-01-18 08:11:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 588.39 Mbit/s
95th percentile per-packet one-way delay: 85.850 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 588.39 Mbit/s
95th percentile per-packet one-way delay: 85.850 ms
Loss rate: 0.04%
```

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

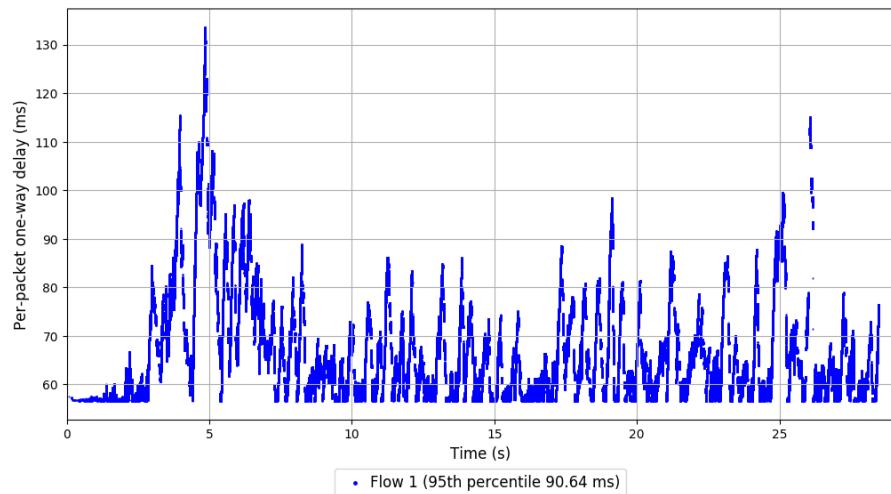
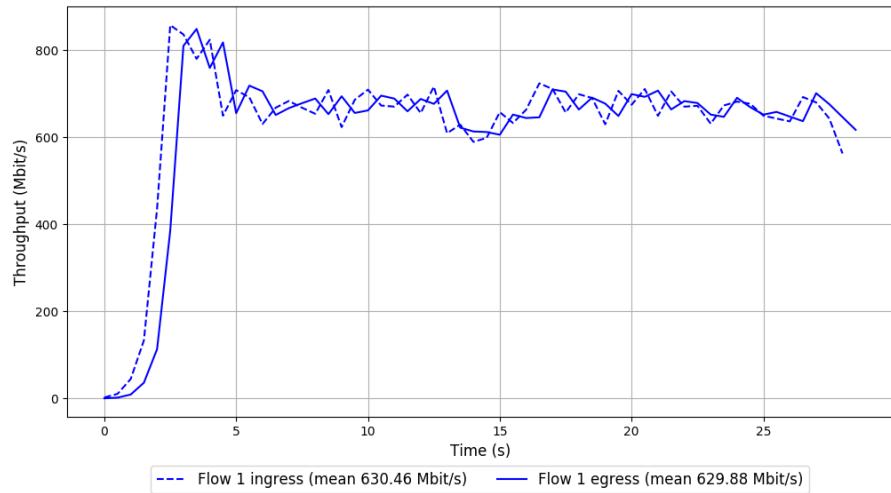


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-01-18 06:57:31
End at: 2019-01-18 06:58:01
Local clock offset: 0.346 ms
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2019-01-18 08:11:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 629.88 Mbit/s
95th percentile per-packet one-way delay: 90.635 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 629.88 Mbit/s
95th percentile per-packet one-way delay: 90.635 ms
Loss rate: 0.09%
```

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

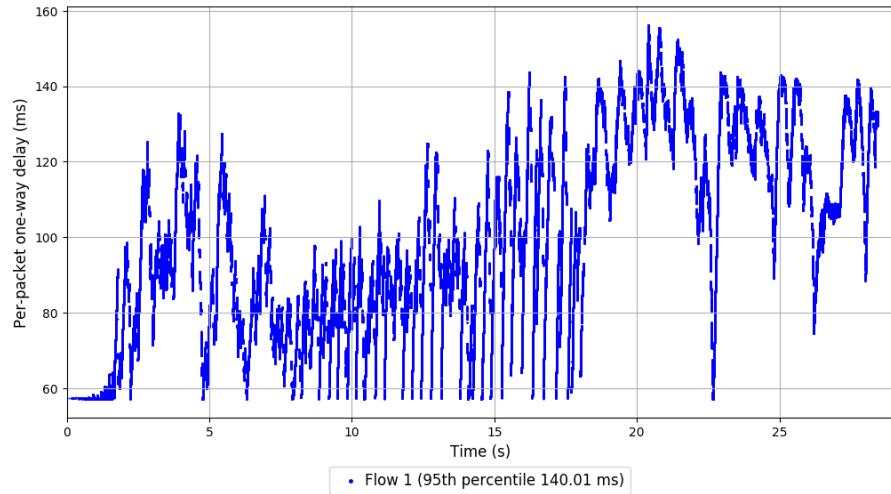
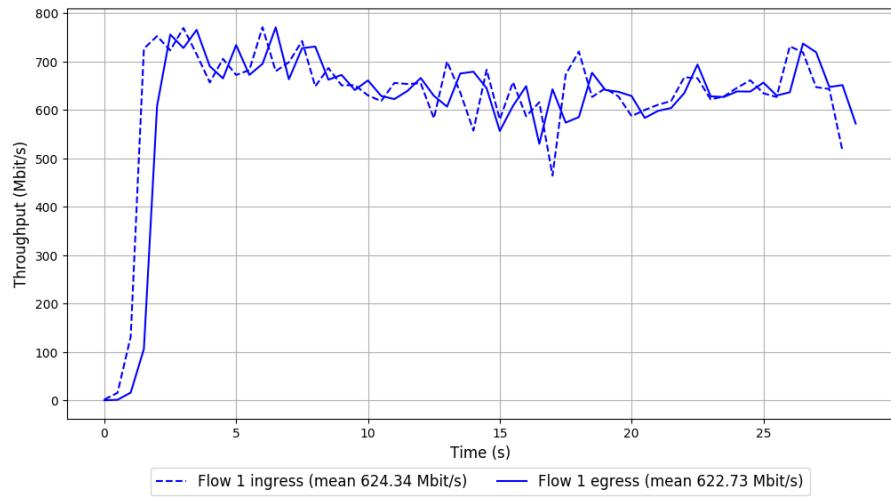


```
Run 1: Statistics of Indigo-MusesC5
```

```
Start at: 2019-01-18 04:41:06
End at: 2019-01-18 04:41:36
Local clock offset: -0.12 ms
Remote clock offset: -0.011 ms

# Below is generated by plot.py at 2019-01-18 08:11:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 622.73 Mbit/s
95th percentile per-packet one-way delay: 140.014 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 622.73 Mbit/s
95th percentile per-packet one-way delay: 140.014 ms
Loss rate: 0.26%
```

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

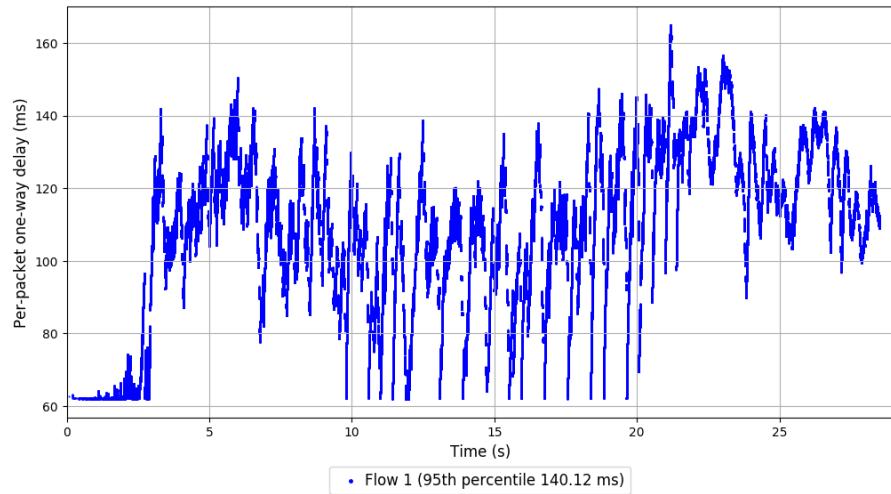
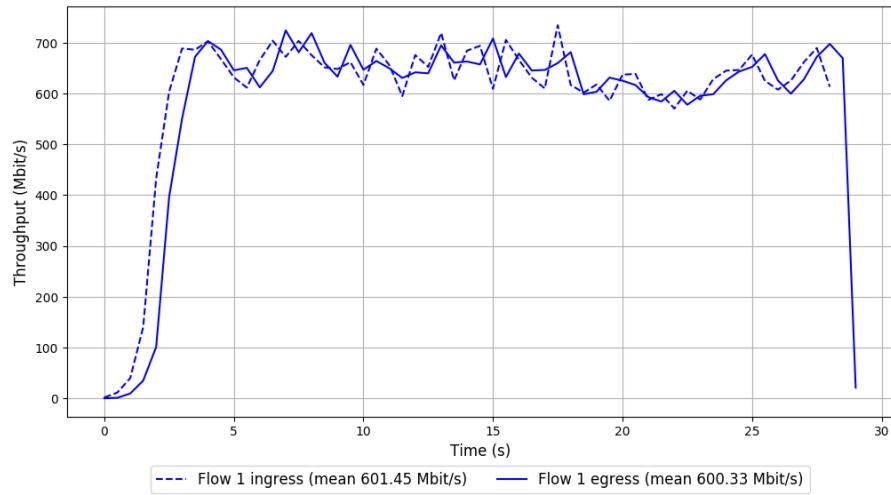


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-01-18 05:12:55
End at: 2019-01-18 05:13:25
Local clock offset: -0.394 ms
Remote clock offset: 1.326 ms

# Below is generated by plot.py at 2019-01-18 08:14:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 600.33 Mbit/s
95th percentile per-packet one-way delay: 140.116 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 600.33 Mbit/s
95th percentile per-packet one-way delay: 140.116 ms
Loss rate: 0.20%
```

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

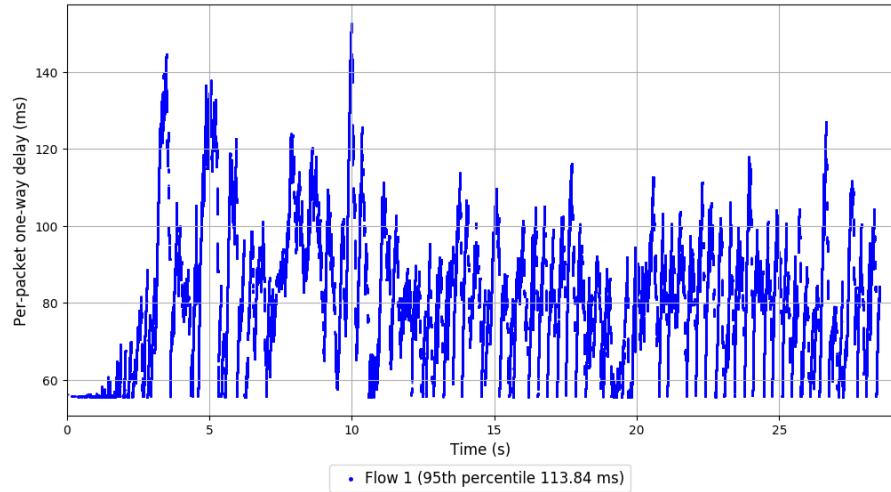
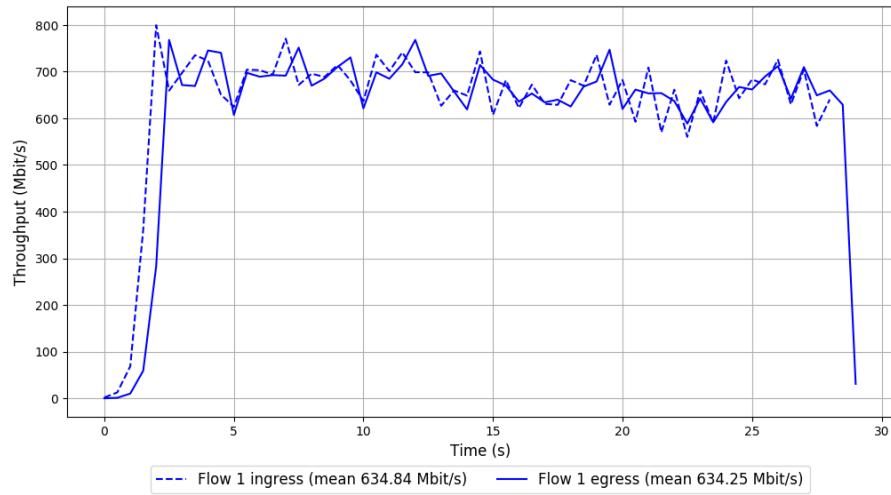


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-01-18 05:44:49
End at: 2019-01-18 05:45:20
Local clock offset: -0.043 ms
Remote clock offset: -1.306 ms

# Below is generated by plot.py at 2019-01-18 08:15:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 634.25 Mbit/s
95th percentile per-packet one-way delay: 113.840 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 634.25 Mbit/s
95th percentile per-packet one-way delay: 113.840 ms
Loss rate: 0.09%
```

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

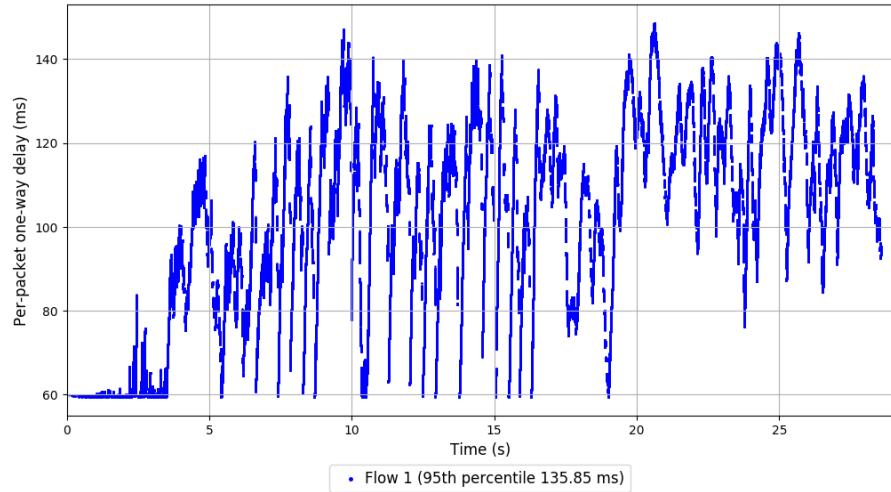
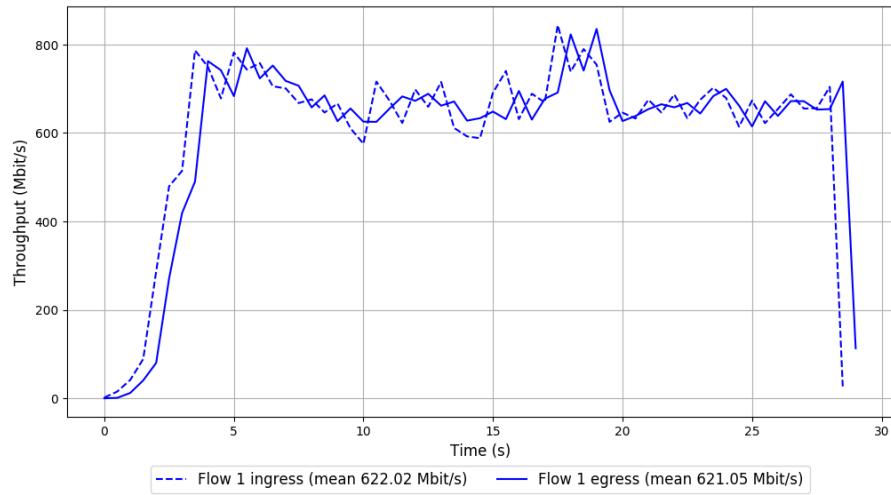


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-01-18 06:18:23
End at: 2019-01-18 06:18:53
Local clock offset: 0.223 ms
Remote clock offset: -0.749 ms

# Below is generated by plot.py at 2019-01-18 08:20:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 621.05 Mbit/s
95th percentile per-packet one-way delay: 135.851 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 621.05 Mbit/s
95th percentile per-packet one-way delay: 135.851 ms
Loss rate: 0.17%
```

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

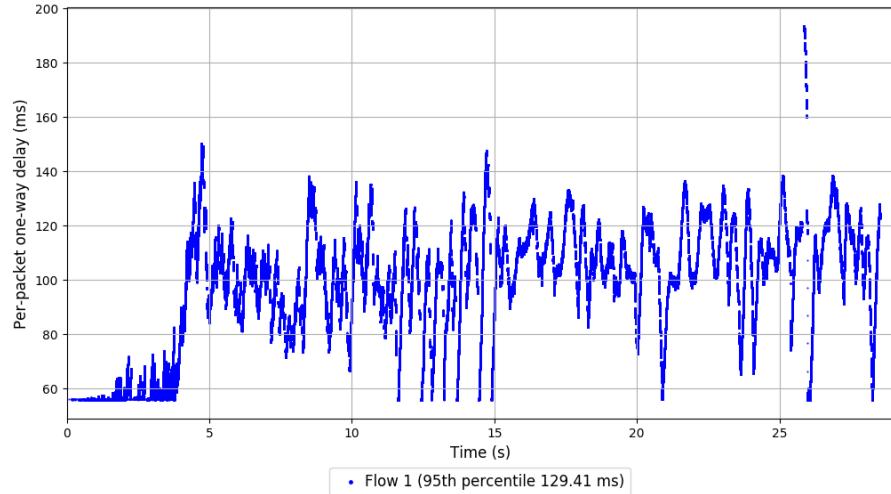
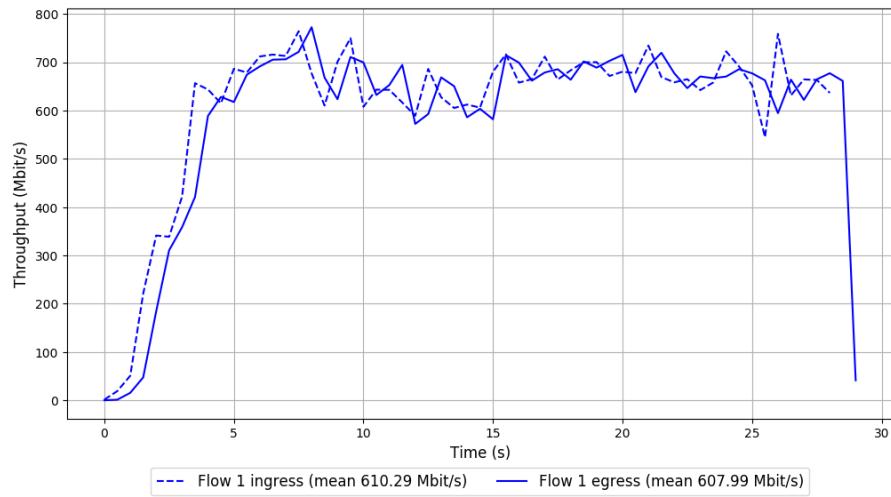


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-01-18 06:50:04
End at: 2019-01-18 06:50:34
Local clock offset: -0.004 ms
Remote clock offset: -1.351 ms

# Below is generated by plot.py at 2019-01-18 08:22:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 607.99 Mbit/s
95th percentile per-packet one-way delay: 129.405 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 607.99 Mbit/s
95th percentile per-packet one-way delay: 129.405 ms
Loss rate: 0.38%
```

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

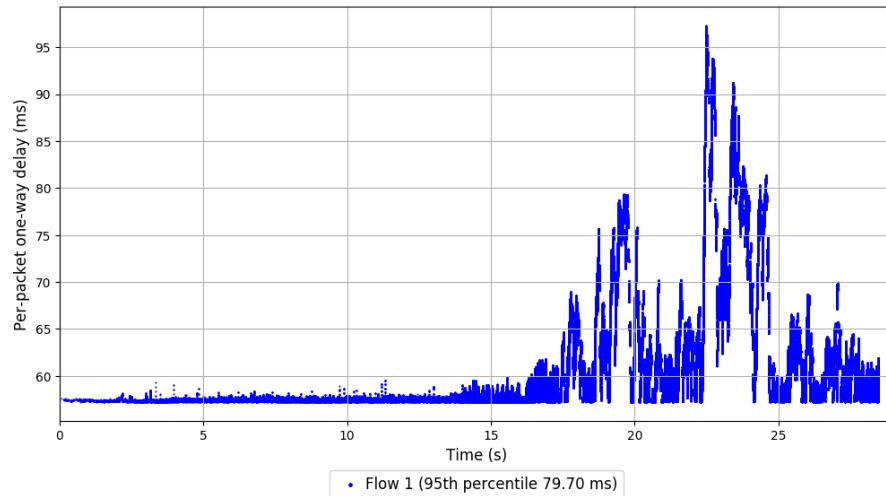
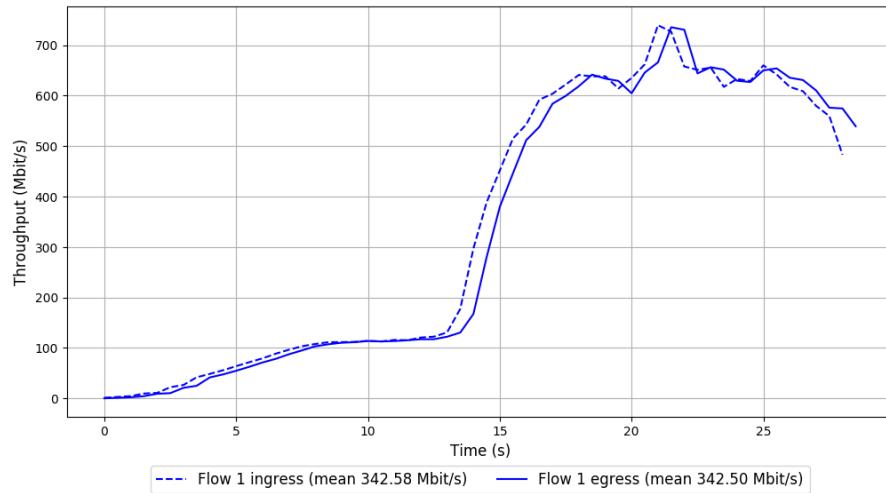


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-01-18 04:44:28
End at: 2019-01-18 04:44:58
Local clock offset: -0.536 ms
Remote clock offset: -0.0 ms

# Below is generated by plot.py at 2019-01-18 08:22:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 342.50 Mbit/s
95th percentile per-packet one-way delay: 79.699 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 342.50 Mbit/s
95th percentile per-packet one-way delay: 79.699 ms
Loss rate: 0.02%
```

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

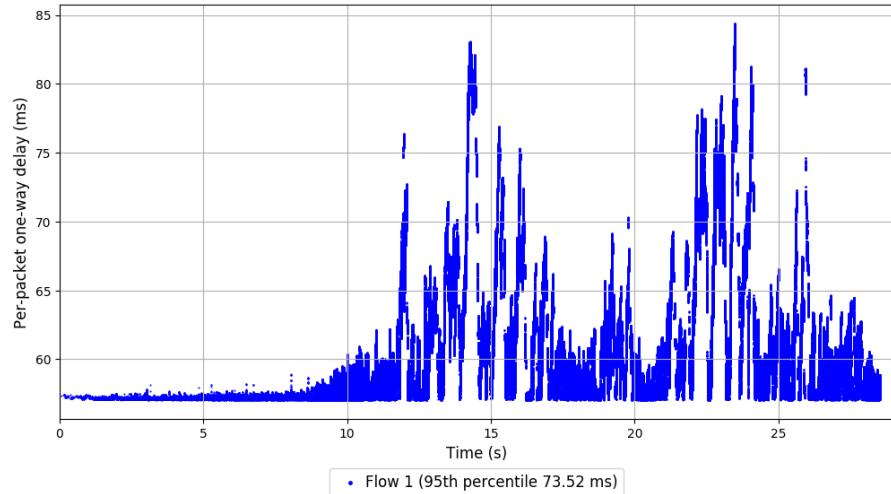
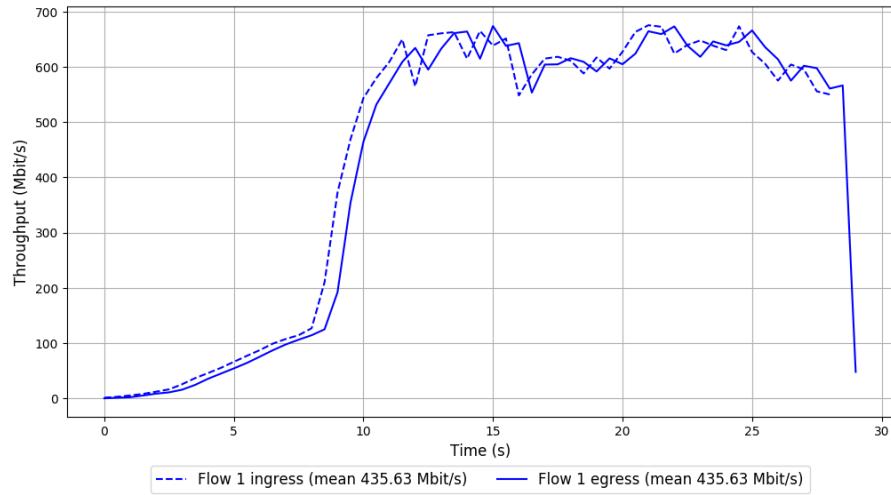


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-01-18 05:16:15
End at: 2019-01-18 05:16:45
Local clock offset: -0.083 ms
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2019-01-18 08:22:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 435.63 Mbit/s
95th percentile per-packet one-way delay: 73.516 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 435.63 Mbit/s
95th percentile per-packet one-way delay: 73.516 ms
Loss rate: 0.00%
```

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

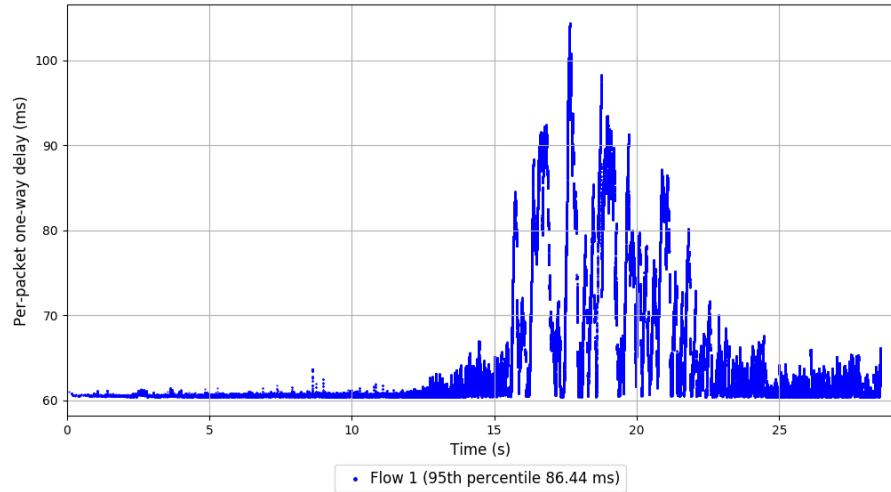
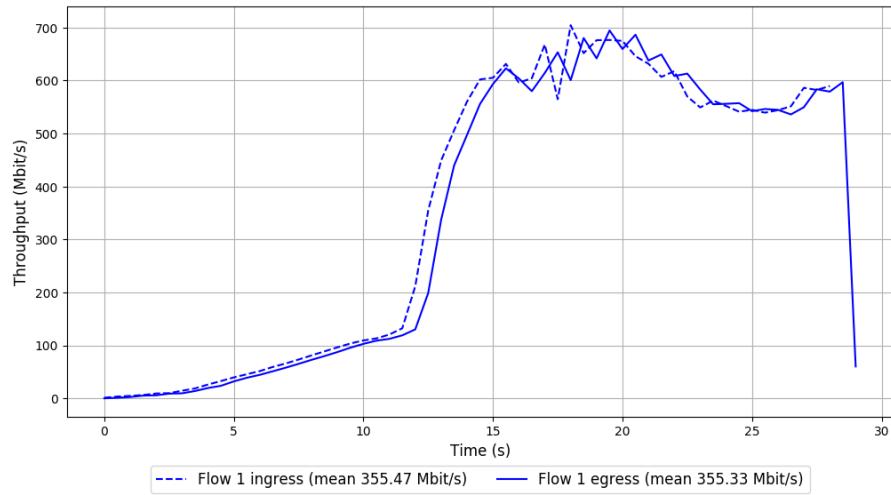


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-01-18 05:48:27
End at: 2019-01-18 05:48:57
Local clock offset: 0.044 ms
Remote clock offset: 0.213 ms

# Below is generated by plot.py at 2019-01-18 08:22:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 355.33 Mbit/s
95th percentile per-packet one-way delay: 86.444 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 355.33 Mbit/s
95th percentile per-packet one-way delay: 86.444 ms
Loss rate: 0.05%
```

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

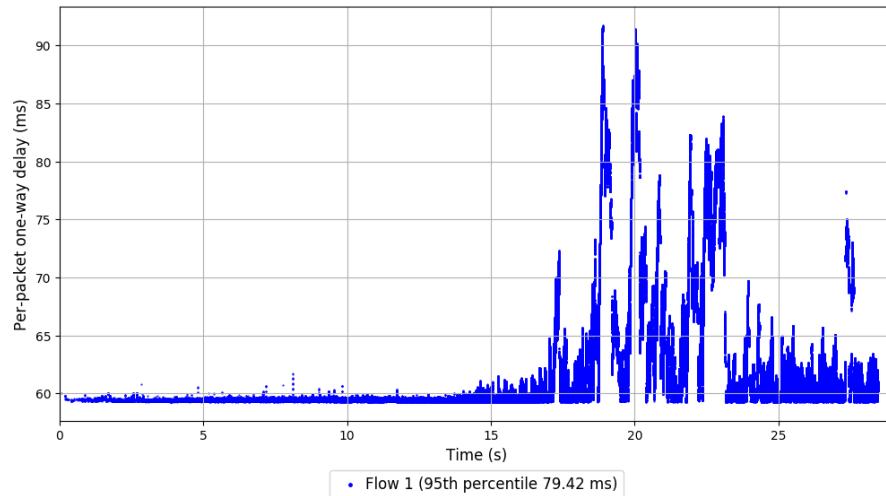
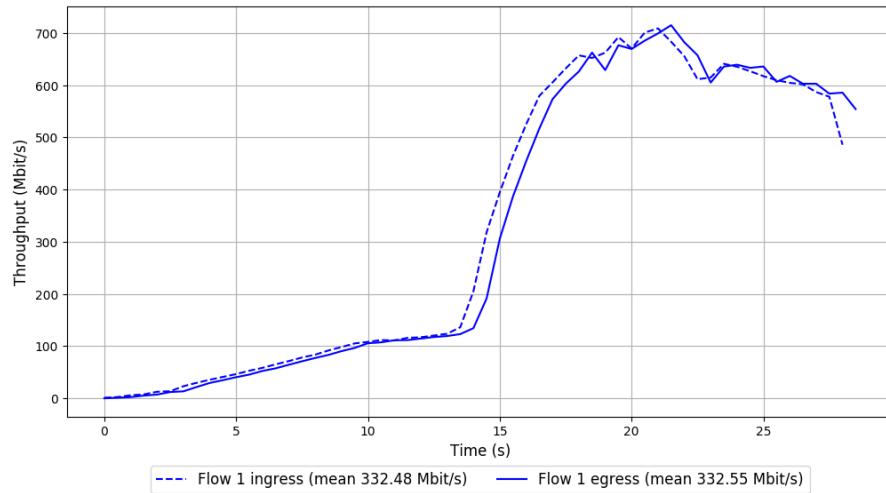


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-01-18 06:21:53
End at: 2019-01-18 06:22:23
Local clock offset: 0.213 ms
Remote clock offset: -0.766 ms

# Below is generated by plot.py at 2019-01-18 08:22:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 332.55 Mbit/s
95th percentile per-packet one-way delay: 79.424 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 332.55 Mbit/s
95th percentile per-packet one-way delay: 79.424 ms
Loss rate: 0.00%
```

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

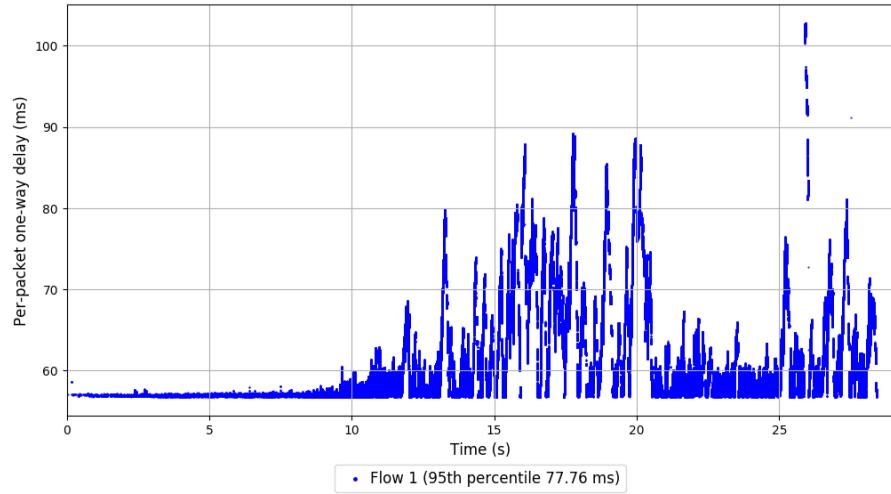
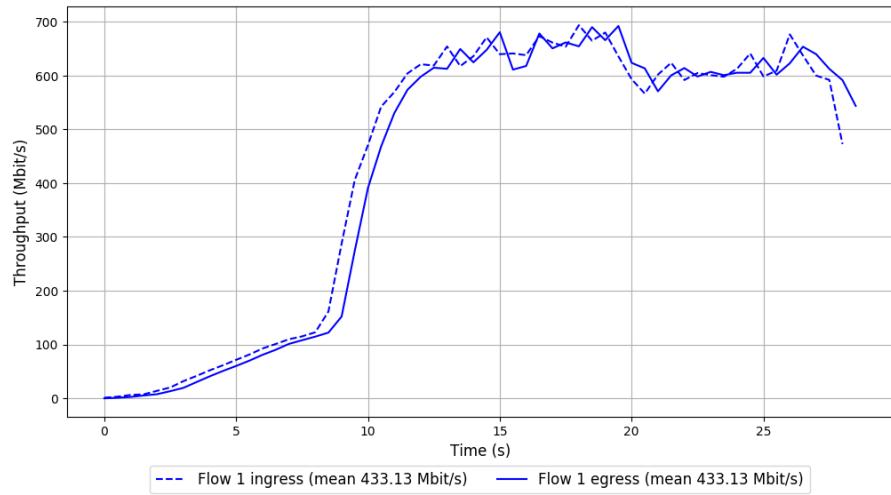


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-01-18 06:53:14
End at: 2019-01-18 06:53:44
Local clock offset: -0.13 ms
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2019-01-18 08:23:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 433.13 Mbit/s
95th percentile per-packet one-way delay: 77.760 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 433.13 Mbit/s
95th percentile per-packet one-way delay: 77.760 ms
Loss rate: 0.00%
```

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

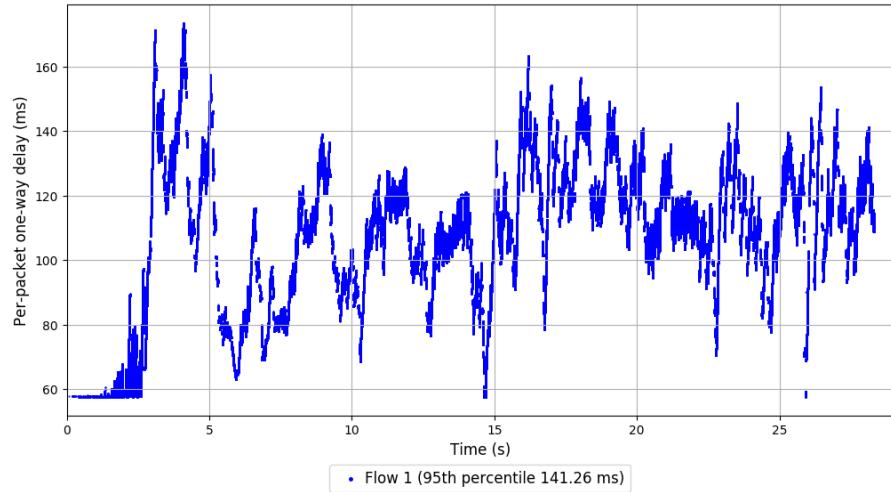
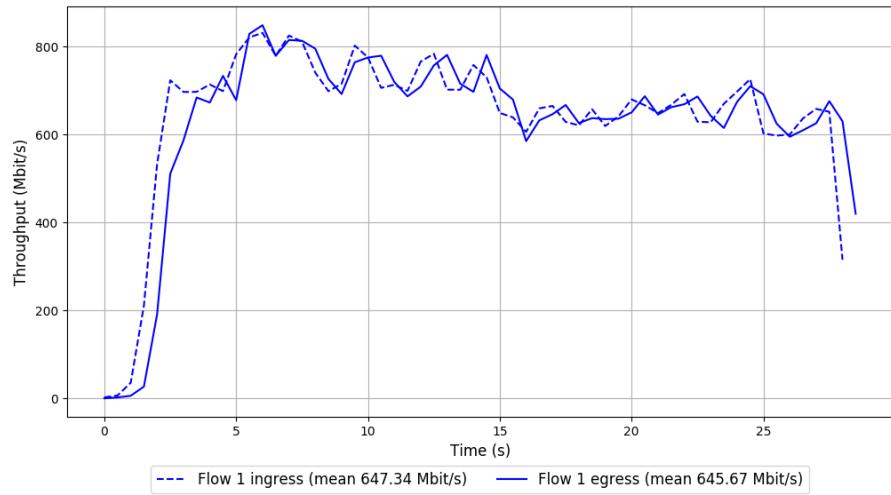


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-01-18 04:38:20
End at: 2019-01-18 04:38:50
Local clock offset: -0.559 ms
Remote clock offset: 0.027 ms

# Below is generated by plot.py at 2019-01-18 08:28:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 645.67 Mbit/s
95th percentile per-packet one-way delay: 141.256 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 645.67 Mbit/s
95th percentile per-packet one-way delay: 141.256 ms
Loss rate: 0.26%
```

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

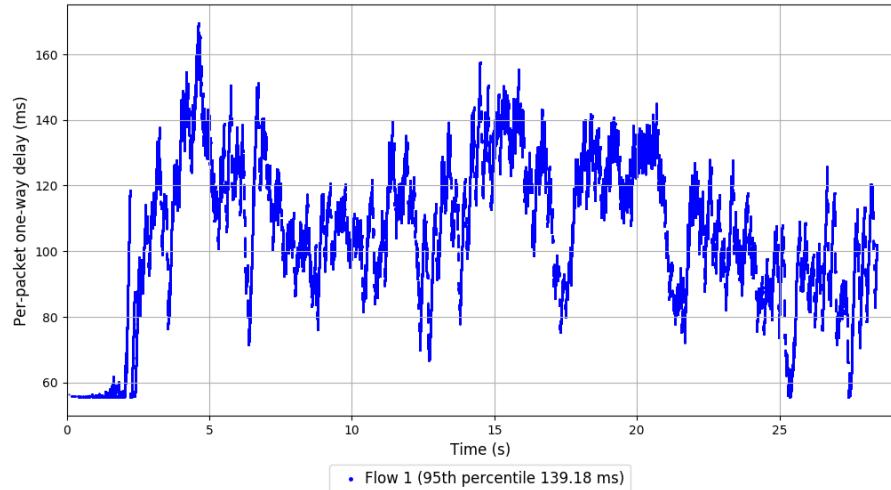
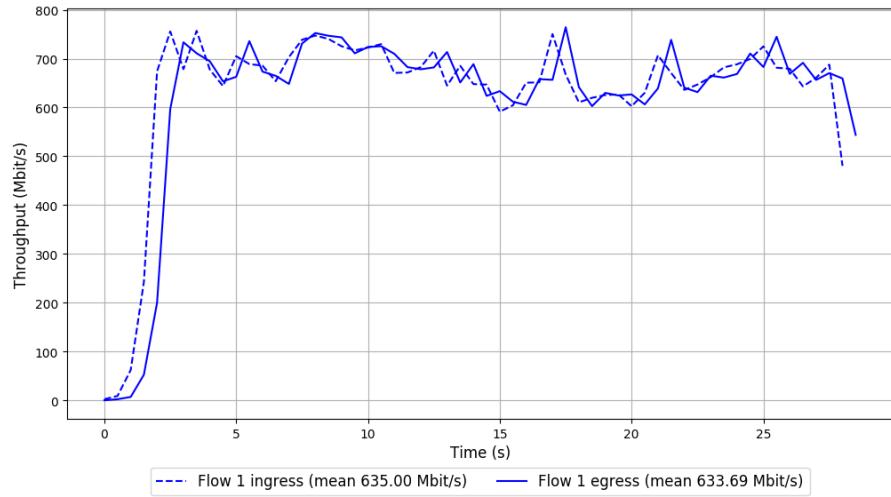


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-01-18 05:10:06
End at: 2019-01-18 05:10:36
Local clock offset: 0.102 ms
Remote clock offset: -1.309 ms

# Below is generated by plot.py at 2019-01-18 08:30:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 633.69 Mbit/s
95th percentile per-packet one-way delay: 139.179 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 633.69 Mbit/s
95th percentile per-packet one-way delay: 139.179 ms
Loss rate: 0.20%
```

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

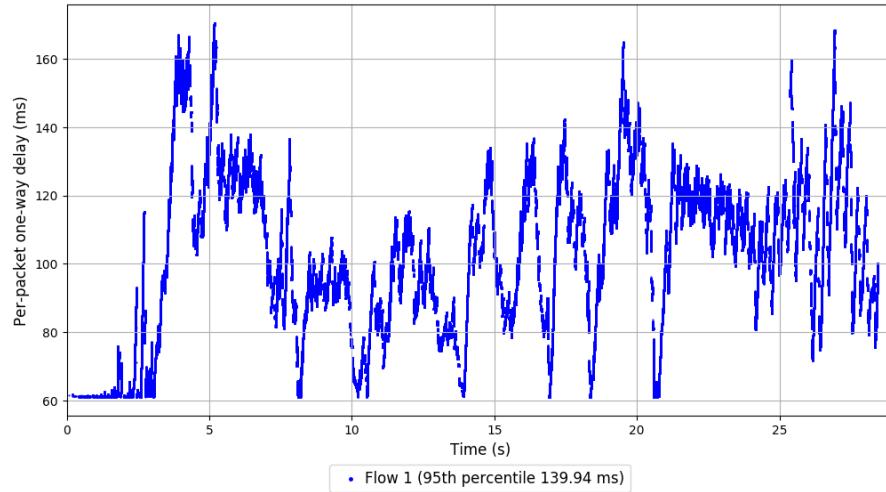
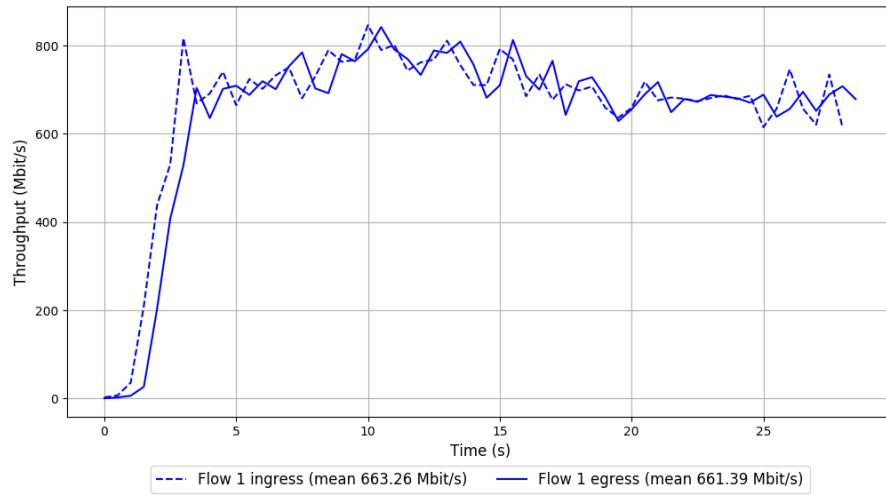


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-01-18 05:41:49
End at: 2019-01-18 05:42:19
Local clock offset: -0.141 ms
Remote clock offset: 0.649 ms

# Below is generated by plot.py at 2019-01-18 08:30:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 661.39 Mbit/s
95th percentile per-packet one-way delay: 139.942 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 661.39 Mbit/s
95th percentile per-packet one-way delay: 139.942 ms
Loss rate: 0.29%
```

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

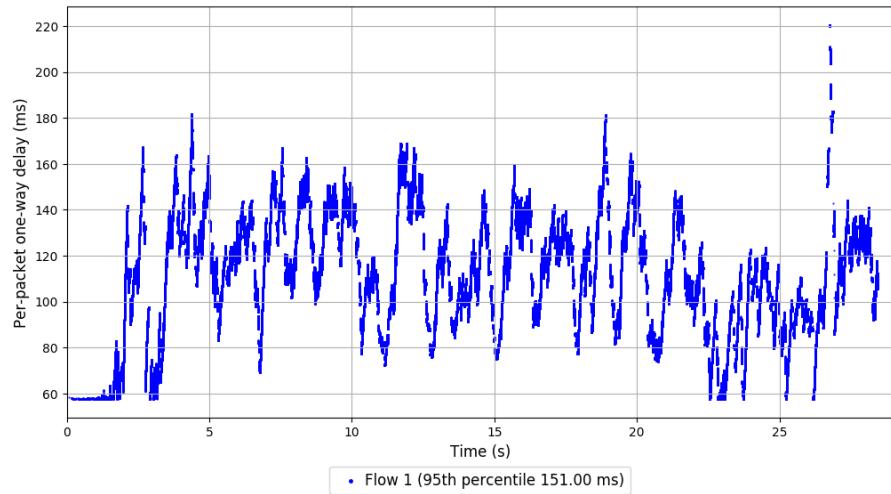
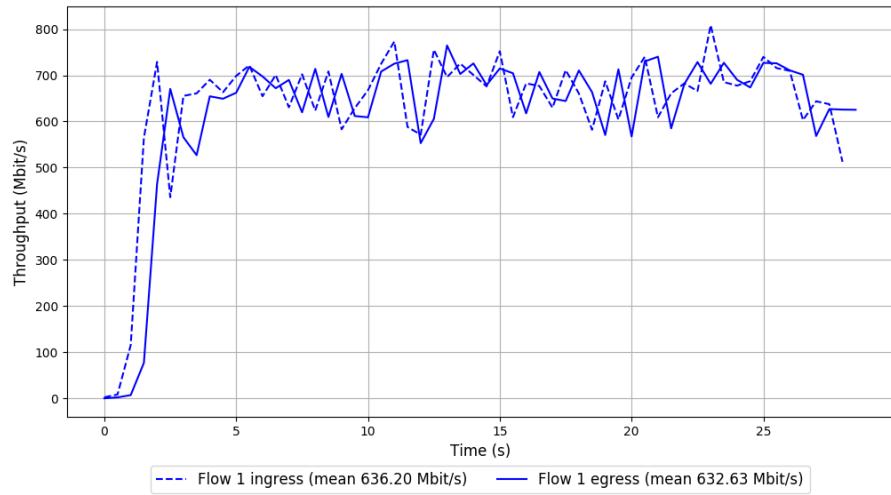


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-01-18 06:15:30
End at: 2019-01-18 06:16:00
Local clock offset: -0.113 ms
Remote clock offset: 0.489 ms

# Below is generated by plot.py at 2019-01-18 08:30:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 632.63 Mbit/s
95th percentile per-packet one-way delay: 150.995 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 632.63 Mbit/s
95th percentile per-packet one-way delay: 150.995 ms
Loss rate: 0.53%
```

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

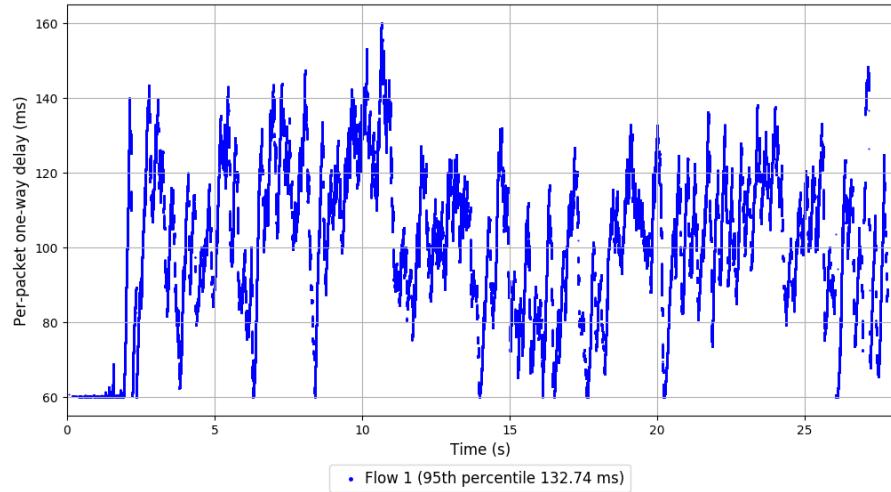
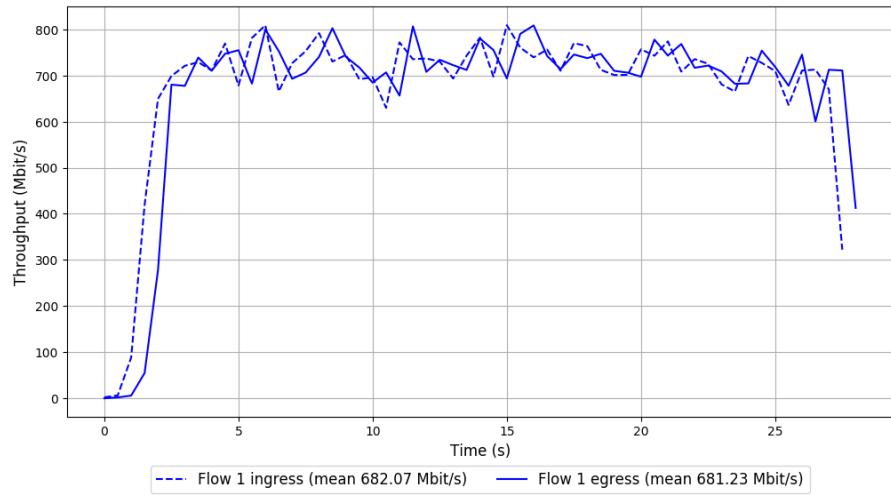


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-01-18 06:47:17
End at: 2019-01-18 06:47:47
Local clock offset: 0.187 ms
Remote clock offset: -0.114 ms

# Below is generated by plot.py at 2019-01-18 08:31:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 681.23 Mbit/s
95th percentile per-packet one-way delay: 132.739 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 681.23 Mbit/s
95th percentile per-packet one-way delay: 132.739 ms
Loss rate: 0.13%
```

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

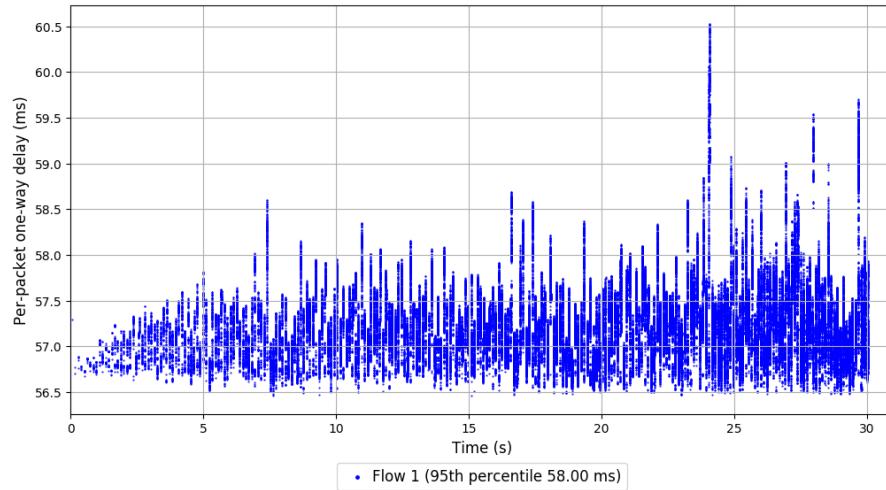
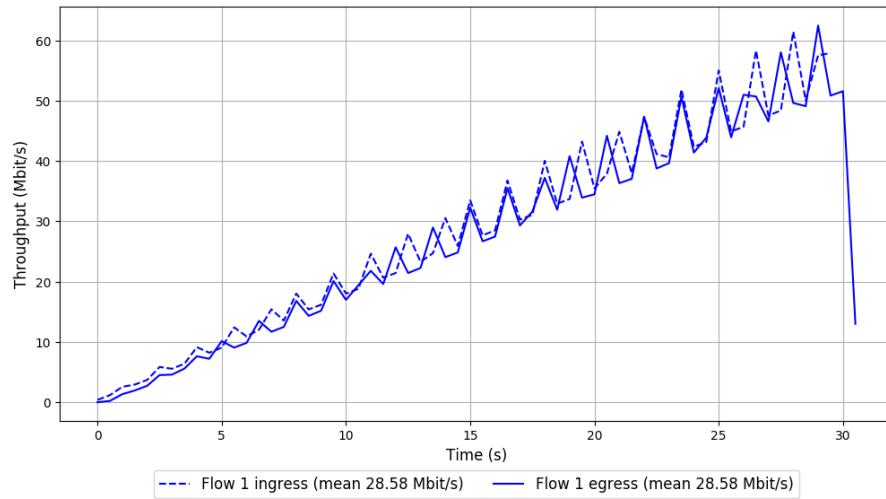


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-01-18 04:37:09
End at: 2019-01-18 04:37:39
Local clock offset: 0.088 ms
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2019-01-18 08:31:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.58 Mbit/s
95th percentile per-packet one-way delay: 58.004 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 28.58 Mbit/s
95th percentile per-packet one-way delay: 58.004 ms
Loss rate: 0.00%
```

## Run 1: Report of LEDBAT — Data Link

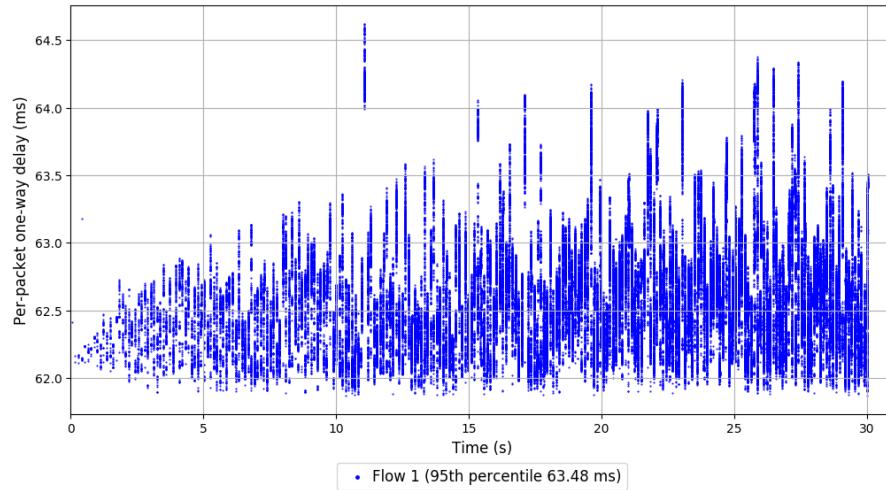
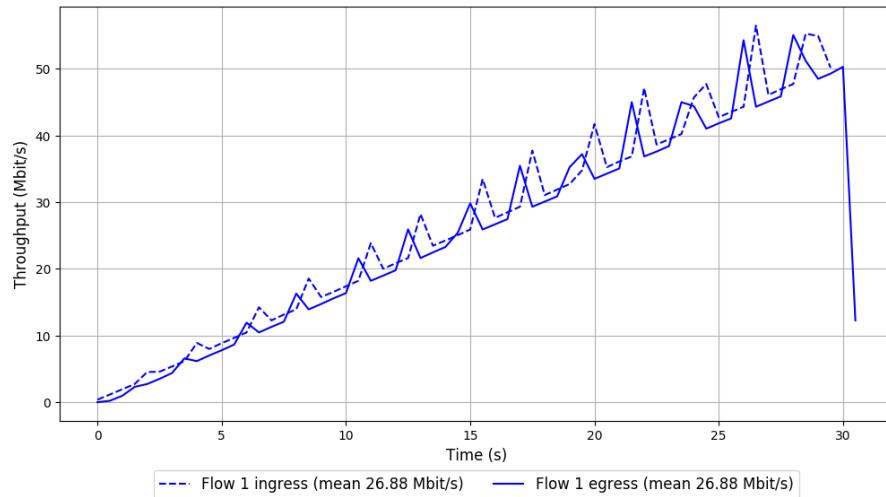


Run 2: Statistics of LEDBAT

```
Start at: 2019-01-18 05:08:55
End at: 2019-01-18 05:09:25
Local clock offset: -0.324 ms
Remote clock offset: 1.267 ms

# Below is generated by plot.py at 2019-01-18 08:31:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.88 Mbit/s
95th percentile per-packet one-way delay: 63.478 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 26.88 Mbit/s
95th percentile per-packet one-way delay: 63.478 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link

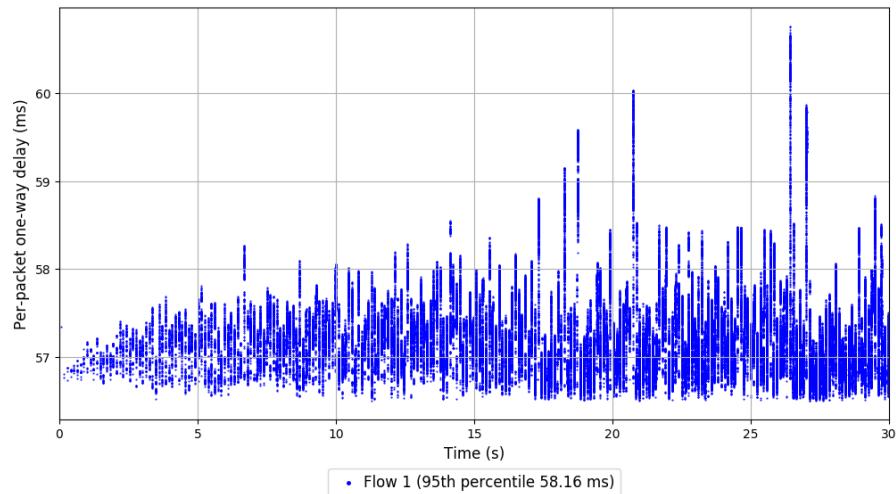
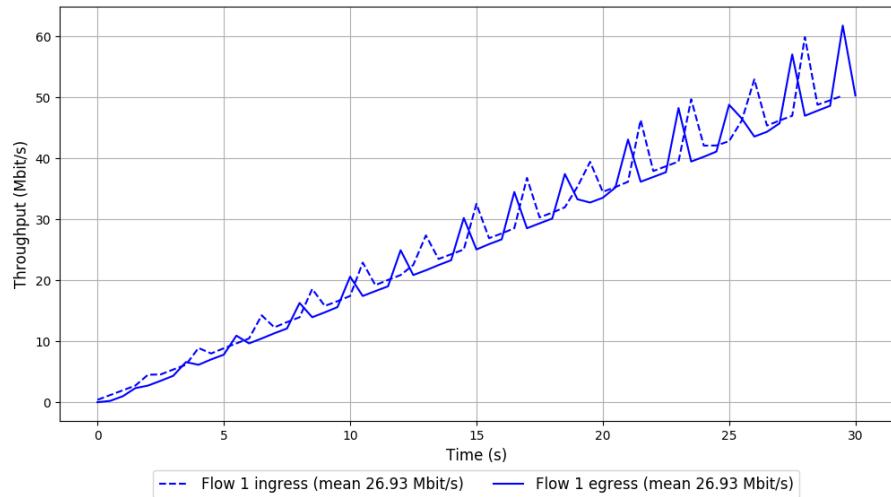


Run 3: Statistics of LEDBAT

```
Start at: 2019-01-18 05:40:38
End at: 2019-01-18 05:41:08
Local clock offset: -0.367 ms
Remote clock offset: -0.668 ms

# Below is generated by plot.py at 2019-01-18 08:31:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.93 Mbit/s
95th percentile per-packet one-way delay: 58.155 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 26.93 Mbit/s
95th percentile per-packet one-way delay: 58.155 ms
Loss rate: 0.00%
```

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

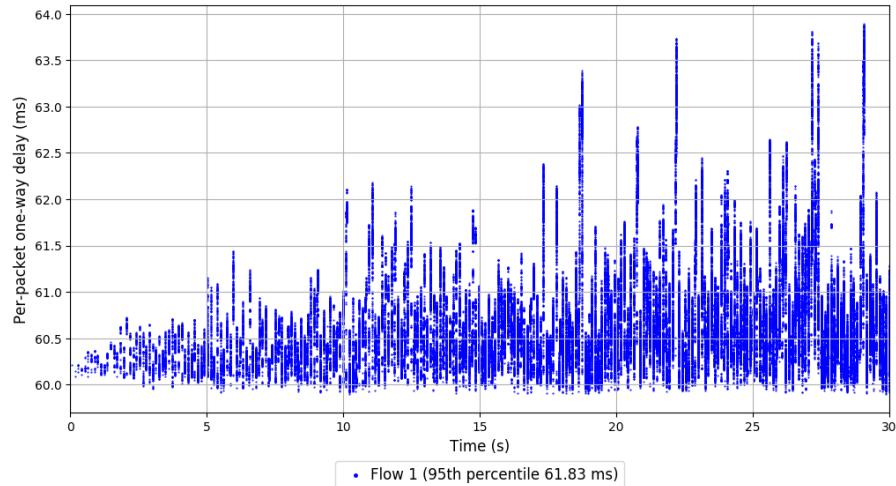
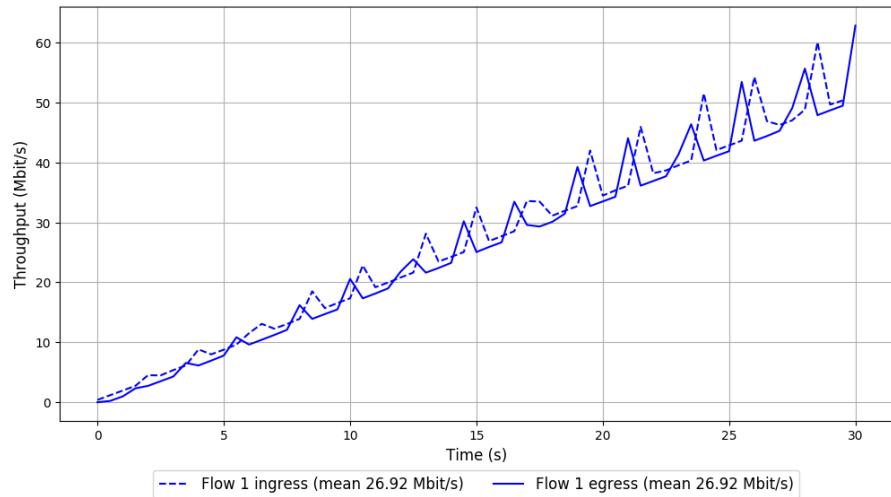


Run 4: Statistics of LEDBAT

```
Start at: 2019-01-18 06:14:19
End at: 2019-01-18 06:14:49
Local clock offset: -0.431 ms
Remote clock offset: -0.721 ms

# Below is generated by plot.py at 2019-01-18 08:31:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.92 Mbit/s
95th percentile per-packet one-way delay: 61.829 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 26.92 Mbit/s
95th percentile per-packet one-way delay: 61.829 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link

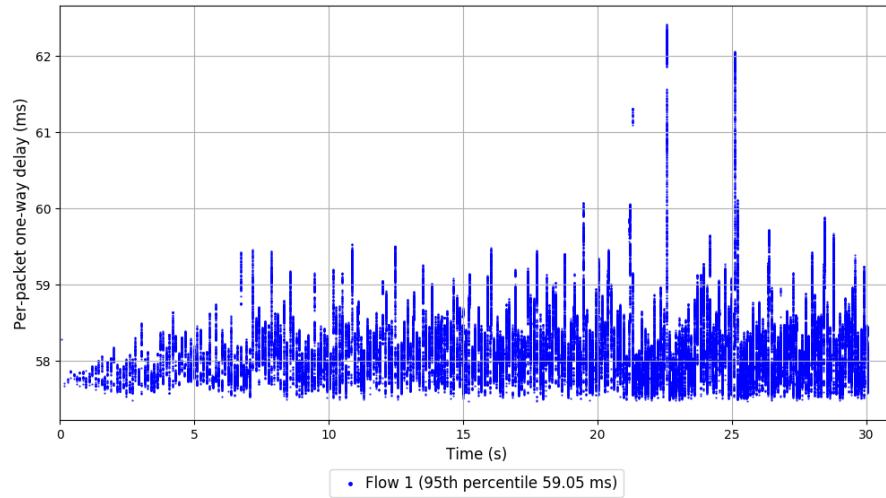
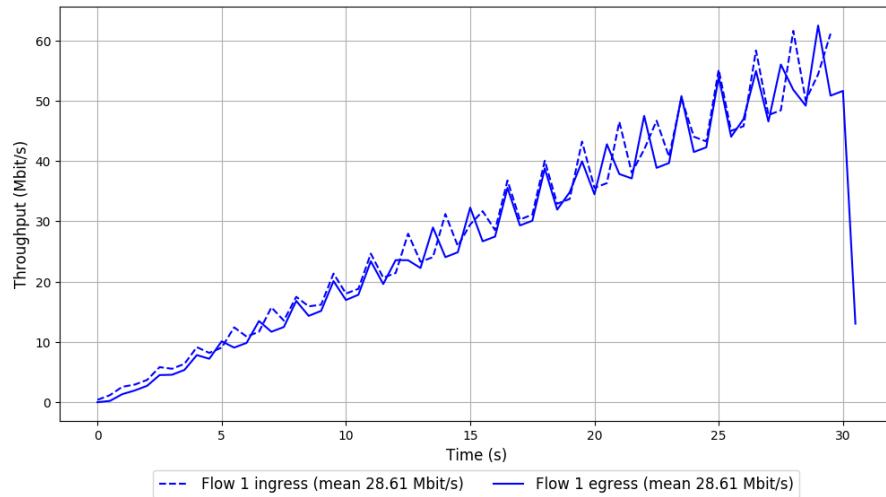


Run 5: Statistics of LEDBAT

```
Start at: 2019-01-18 06:46:06
End at: 2019-01-18 06:46:36
Local clock offset: -0.143 ms
Remote clock offset: 0.404 ms

# Below is generated by plot.py at 2019-01-18 08:31:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.61 Mbit/s
95th percentile per-packet one-way delay: 59.051 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 28.61 Mbit/s
95th percentile per-packet one-way delay: 59.051 ms
Loss rate: 0.00%
```

Run 5: Report of LEDBAT — Data Link

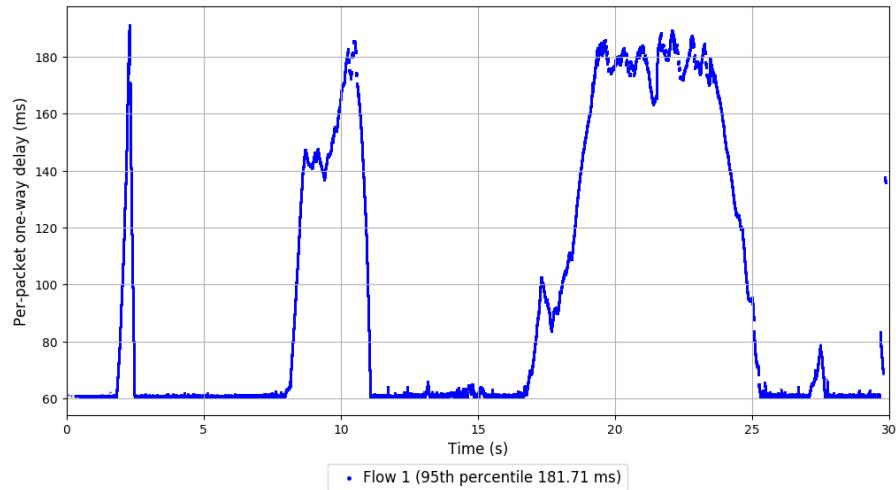
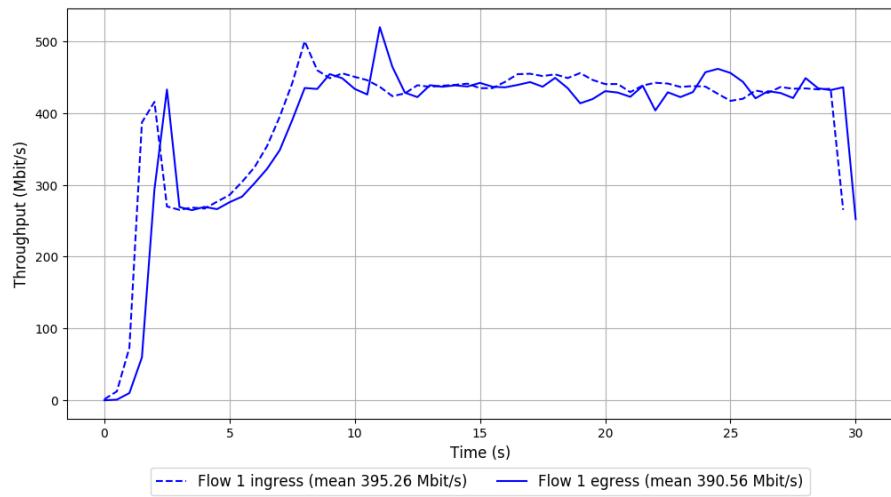


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-01-18 04:42:49
End at: 2019-01-18 04:43:19
Local clock offset: -0.33 ms
Remote clock offset: 0.053 ms

# Below is generated by plot.py at 2019-01-18 08:37:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 390.56 Mbit/s
95th percentile per-packet one-way delay: 181.709 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 390.56 Mbit/s
95th percentile per-packet one-way delay: 181.709 ms
Loss rate: 1.20%
```

Run 1: Report of PCC-Allegro — Data Link

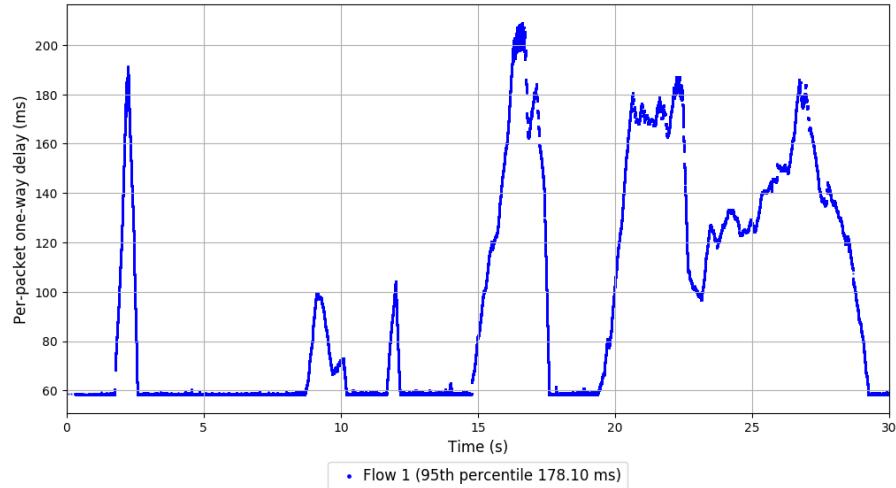
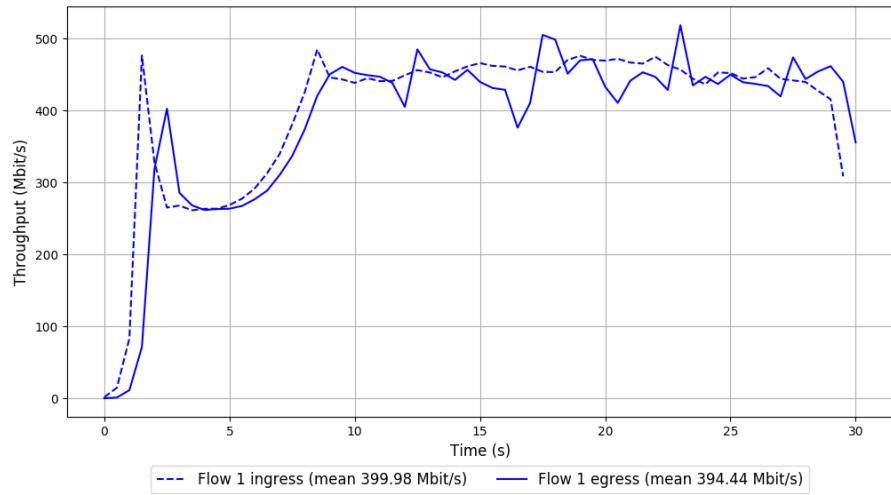


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-01-18 05:14:35
End at: 2019-01-18 05:15:05
Local clock offset: -0.304 ms
Remote clock offset: 1.336 ms

# Below is generated by plot.py at 2019-01-18 08:37:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 394.44 Mbit/s
95th percentile per-packet one-way delay: 178.103 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 394.44 Mbit/s
95th percentile per-packet one-way delay: 178.103 ms
Loss rate: 1.38%
```

Run 2: Report of PCC-Allegro — Data Link

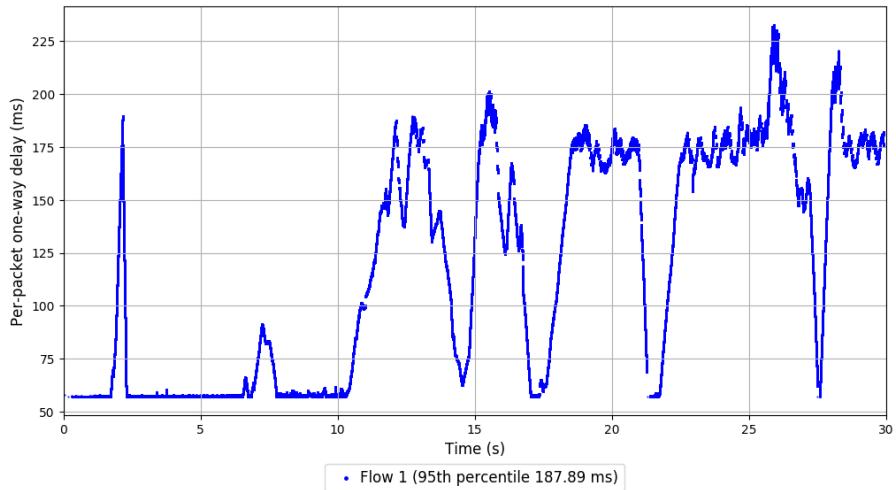
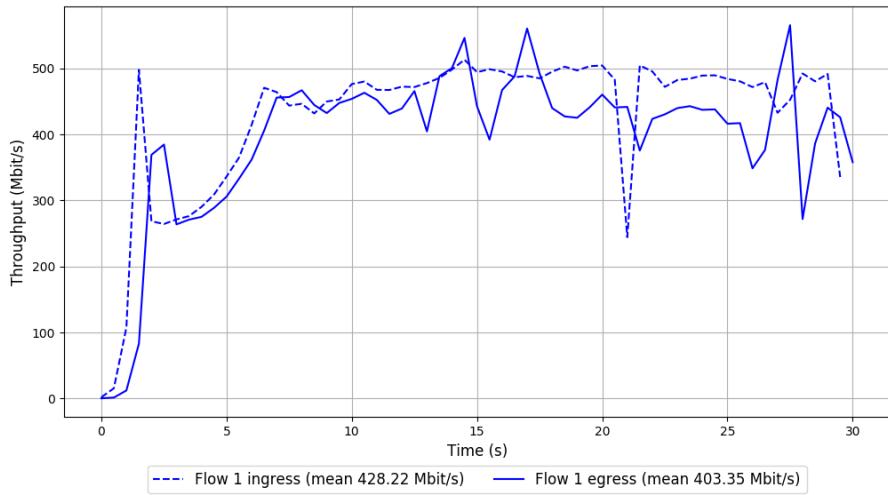


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-01-18 05:46:36
End at: 2019-01-18 05:47:06
Local clock offset: -0.126 ms
Remote clock offset: 0.063 ms

# Below is generated by plot.py at 2019-01-18 08:40:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 403.35 Mbit/s
95th percentile per-packet one-way delay: 187.888 ms
Loss rate: 5.81%
-- Flow 1:
Average throughput: 403.35 Mbit/s
95th percentile per-packet one-way delay: 187.888 ms
Loss rate: 5.81%
```

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

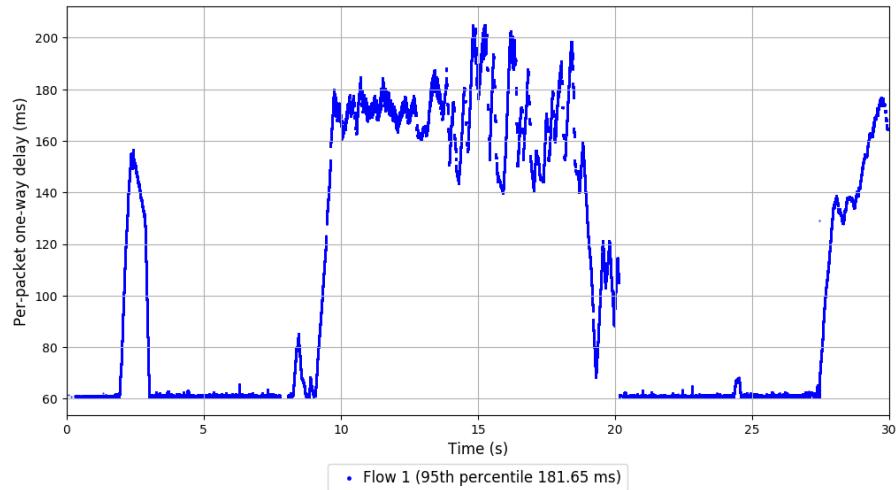
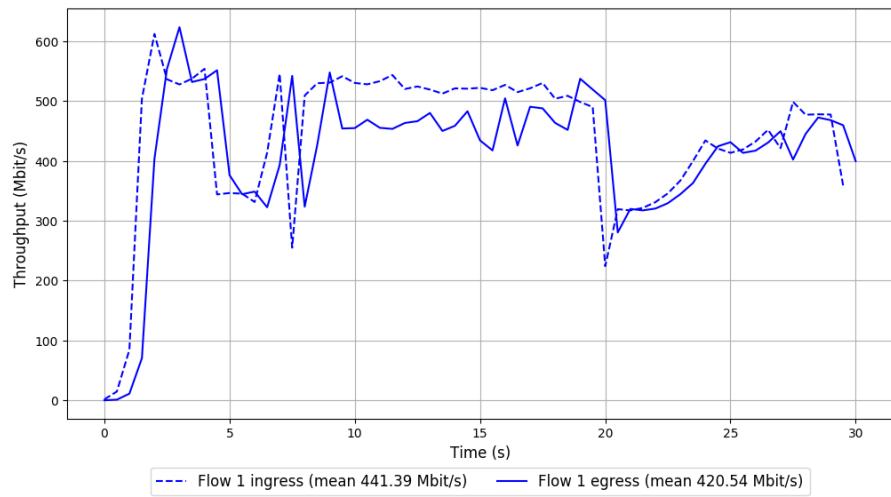


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-01-18 06:20:10
End at: 2019-01-18 06:20:40
Local clock offset: -0.389 ms
Remote clock offset: -0.131 ms

# Below is generated by plot.py at 2019-01-18 08:44:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 420.54 Mbit/s
95th percentile per-packet one-way delay: 181.647 ms
Loss rate: 4.73%
-- Flow 1:
Average throughput: 420.54 Mbit/s
95th percentile per-packet one-way delay: 181.647 ms
Loss rate: 4.73%
```

Run 4: Report of PCC-Allegro — Data Link

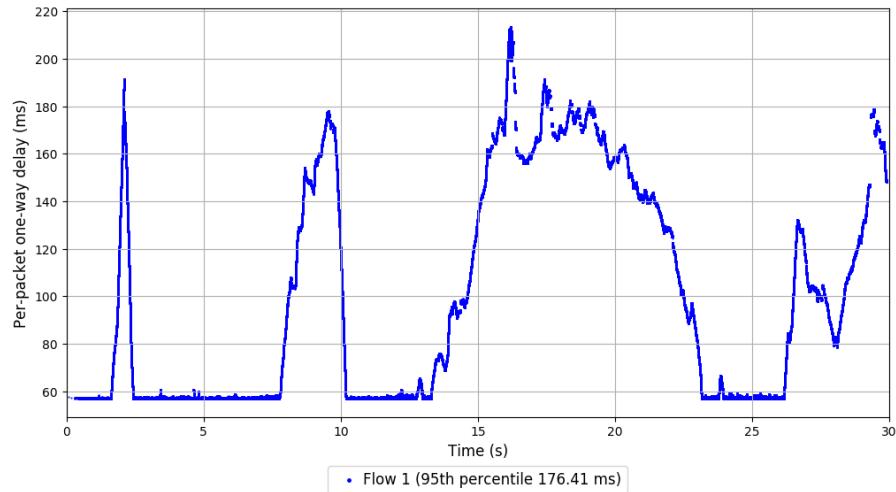
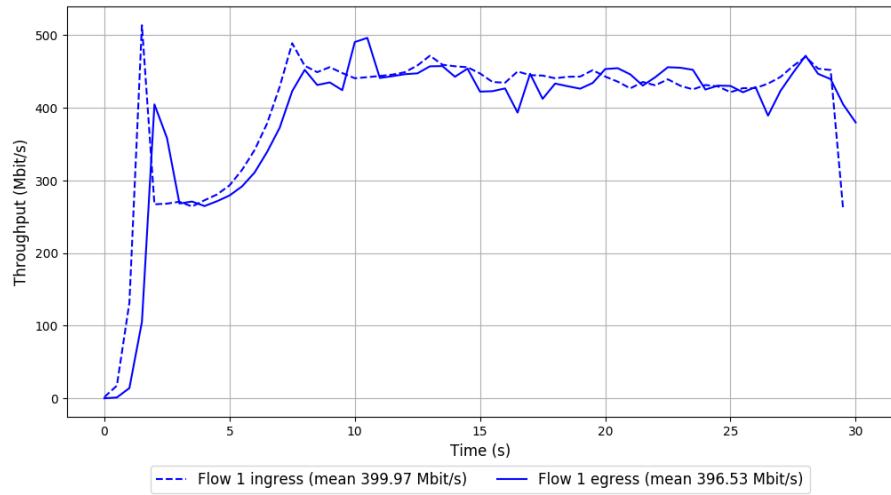


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-01-18 06:51:40
End at: 2019-01-18 06:52:10
Local clock offset: -0.326 ms
Remote clock offset: -0.405 ms

# Below is generated by plot.py at 2019-01-18 08:45:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 396.53 Mbit/s
95th percentile per-packet one-way delay: 176.410 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 396.53 Mbit/s
95th percentile per-packet one-way delay: 176.410 ms
Loss rate: 0.86%
```

Run 5: Report of PCC-Allegro — Data Link

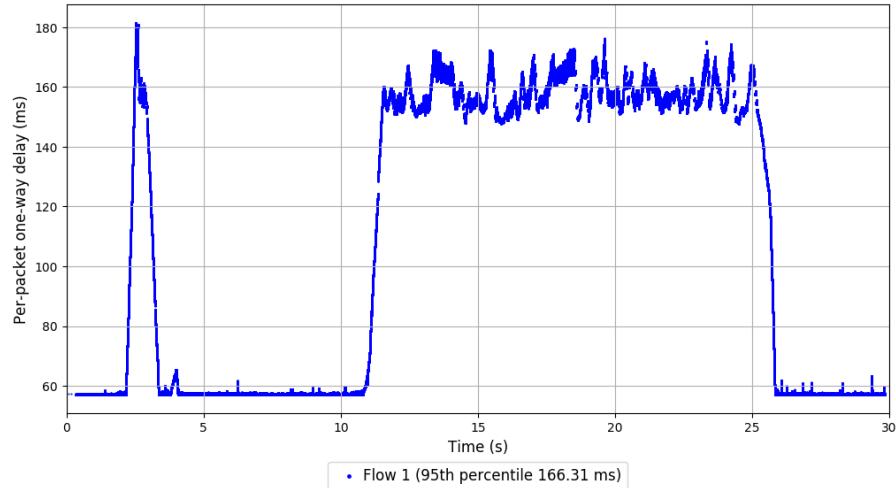
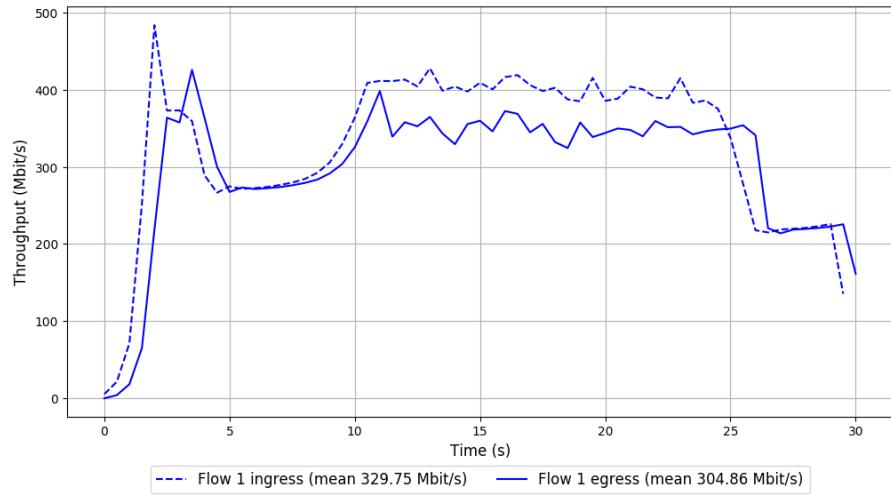


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-01-18 04:45:56
End at: 2019-01-18 04:46:26
Local clock offset: -0.115 ms
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2019-01-18 08:45:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 304.86 Mbit/s
95th percentile per-packet one-way delay: 166.312 ms
Loss rate: 7.55%
-- Flow 1:
Average throughput: 304.86 Mbit/s
95th percentile per-packet one-way delay: 166.312 ms
Loss rate: 7.55%
```

Run 1: Report of PCC-Expr — Data Link

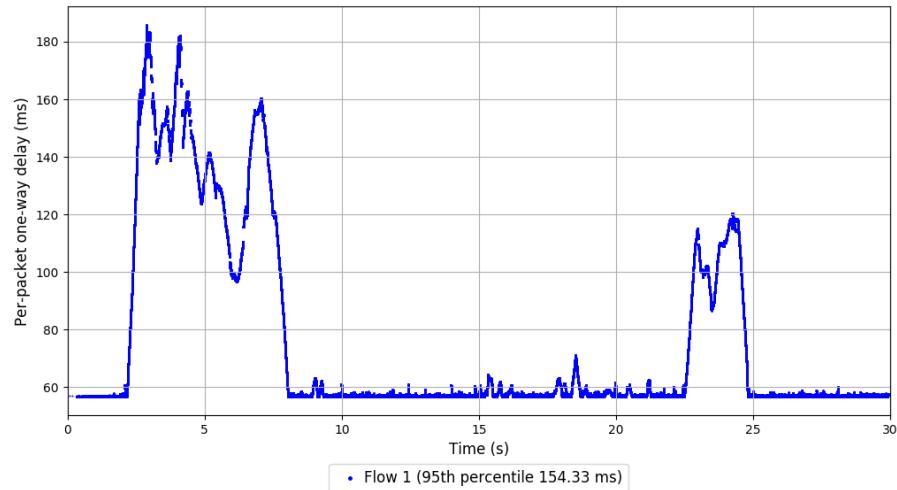
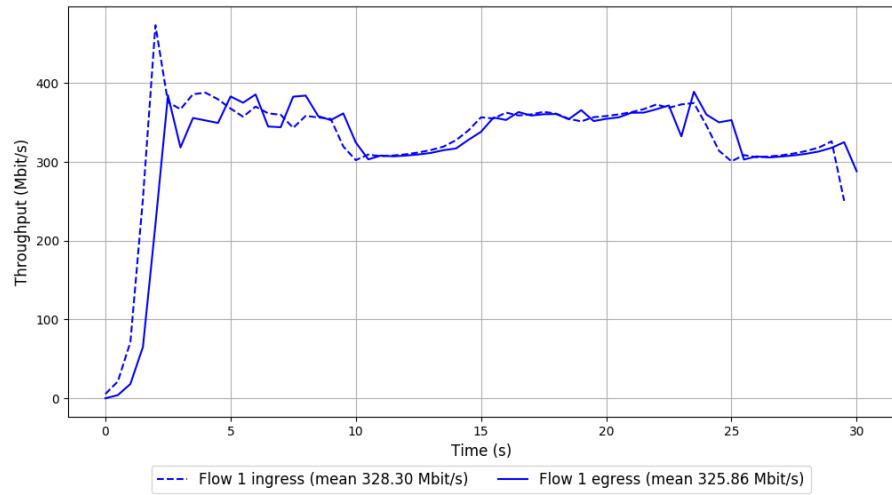


Run 2: Statistics of PCC-Expr

```
Start at: 2019-01-18 05:17:49
End at: 2019-01-18 05:18:19
Local clock offset: 0.239 ms
Remote clock offset: 0.048 ms

# Below is generated by plot.py at 2019-01-18 08:45:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 325.86 Mbit/s
95th percentile per-packet one-way delay: 154.332 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 325.86 Mbit/s
95th percentile per-packet one-way delay: 154.332 ms
Loss rate: 0.86%
```

Run 2: Report of PCC-Expr — Data Link

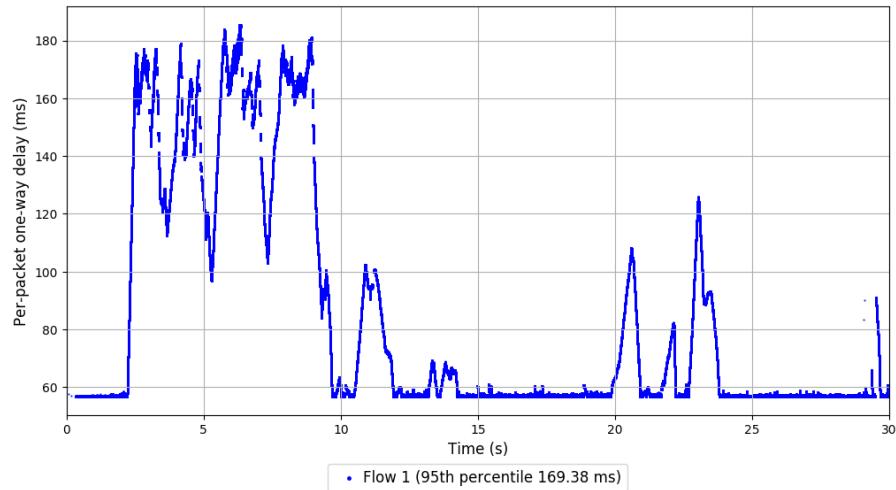
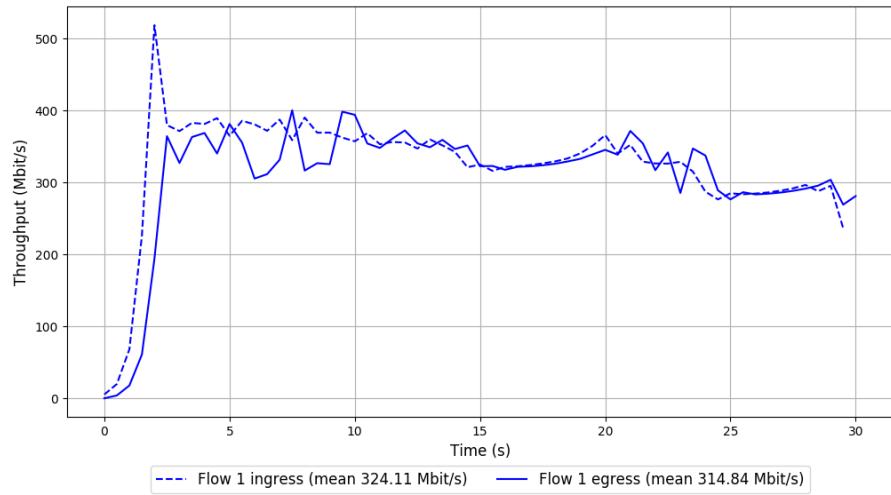


Run 3: Statistics of PCC-Expr

```
Start at: 2019-01-18 05:50:02
End at: 2019-01-18 05:50:32
Local clock offset: 0.255 ms
Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2019-01-18 08:45:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 314.84 Mbit/s
95th percentile per-packet one-way delay: 169.377 ms
Loss rate: 2.86%
-- Flow 1:
Average throughput: 314.84 Mbit/s
95th percentile per-packet one-way delay: 169.377 ms
Loss rate: 2.86%
```

Run 3: Report of PCC-Expr — Data Link

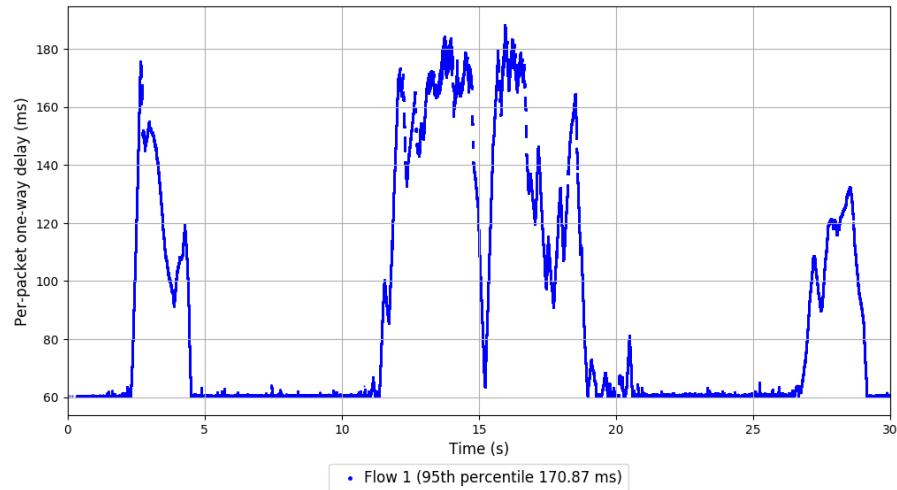
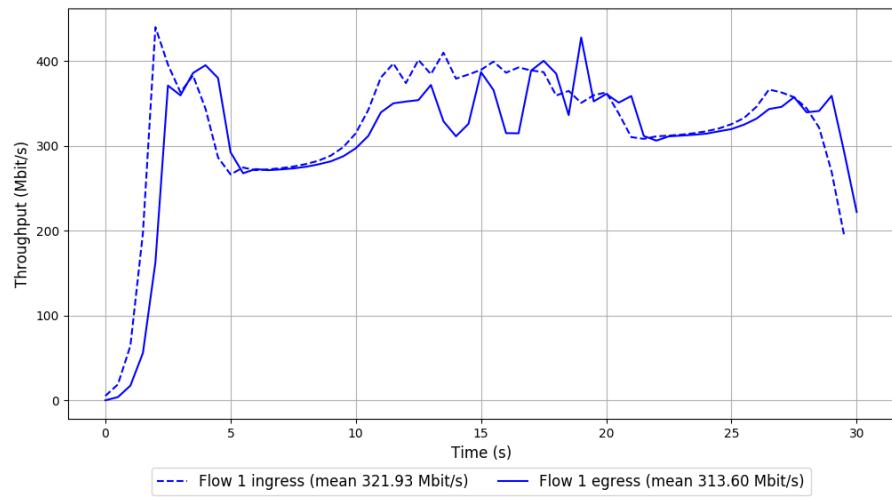


Run 4: Statistics of PCC-Expr

```
Start at: 2019-01-18 06:23:22
End at: 2019-01-18 06:23:52
Local clock offset: 0.261 ms
Remote clock offset: 0.087 ms

# Below is generated by plot.py at 2019-01-18 08:50:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 313.60 Mbit/s
95th percentile per-packet one-way delay: 170.874 ms
Loss rate: 2.60%
-- Flow 1:
Average throughput: 313.60 Mbit/s
95th percentile per-packet one-way delay: 170.874 ms
Loss rate: 2.60%
```

Run 4: Report of PCC-Expr — Data Link

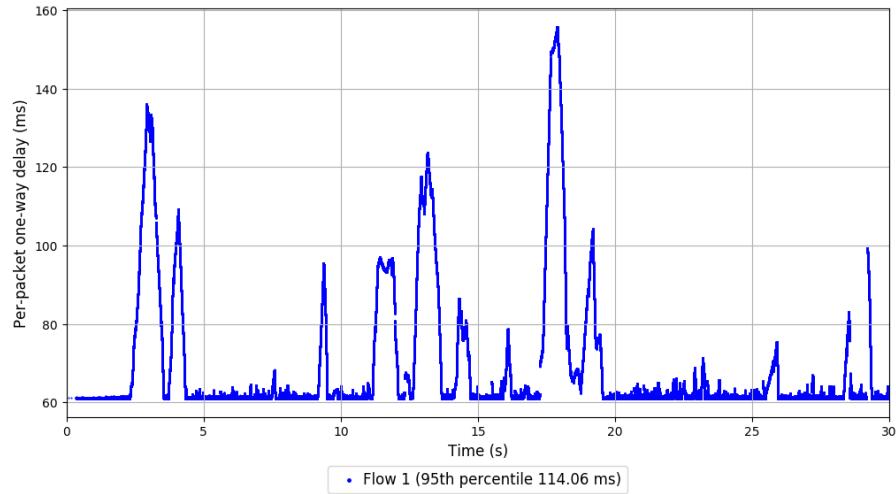
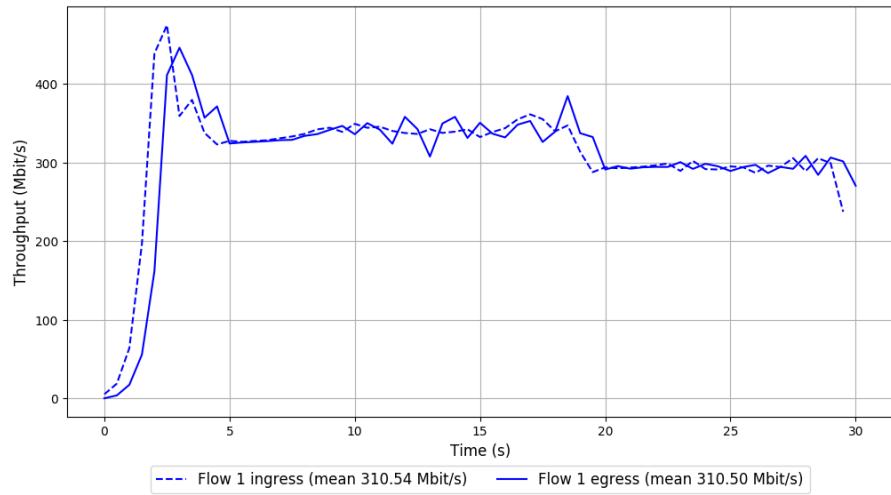


Run 5: Statistics of PCC-Expr

```
Start at: 2019-01-18 06:54:43
End at: 2019-01-18 06:55:13
Local clock offset: -0.163 ms
Remote clock offset: 0.204 ms

# Below is generated by plot.py at 2019-01-18 08:50:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 310.50 Mbit/s
95th percentile per-packet one-way delay: 114.060 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 310.50 Mbit/s
95th percentile per-packet one-way delay: 114.060 ms
Loss rate: 0.02%
```

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

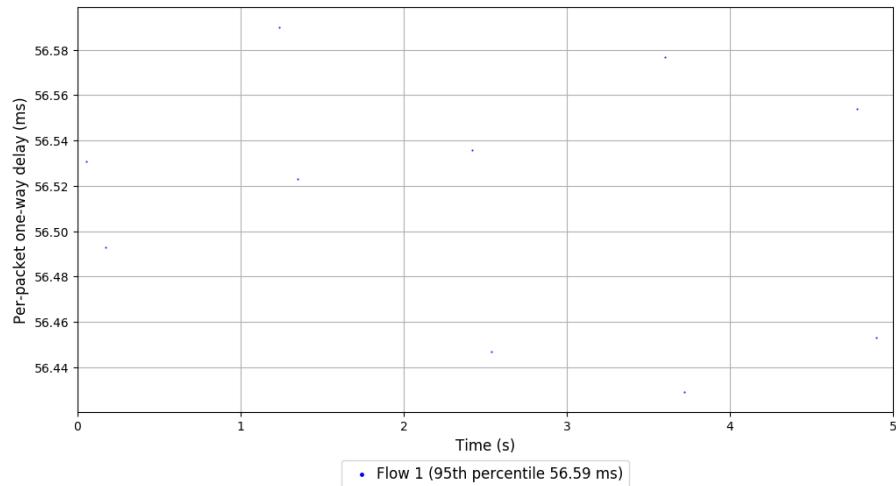
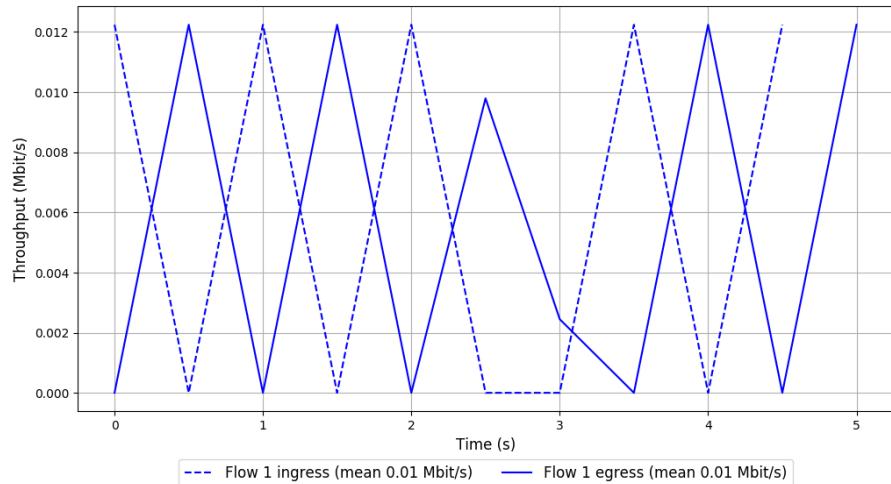
Start at: 2019-01-18 04:47:38

End at: 2019-01-18 04:48:08

Local clock offset: -0.001 ms

Remote clock offset: -0.738 ms

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

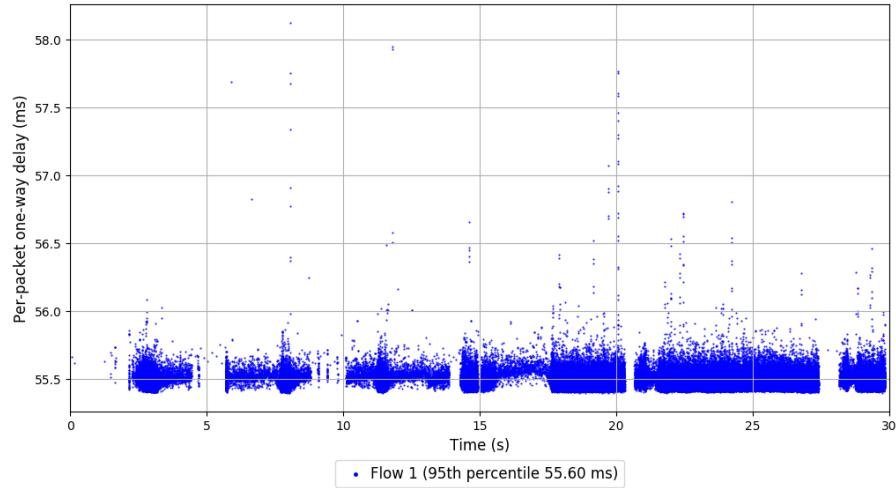
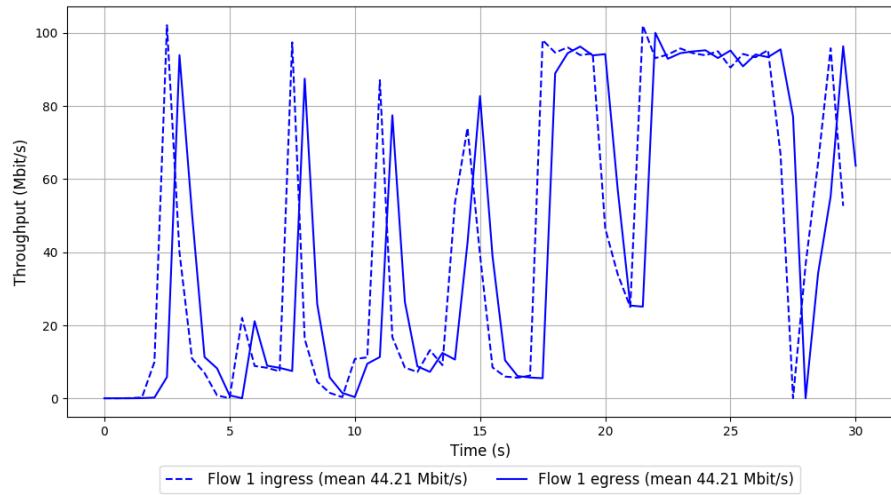


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-01-18 05:19:32
End at: 2019-01-18 05:20:02
Local clock offset: 0.068 ms
Remote clock offset: -1.29 ms

# Below is generated by plot.py at 2019-01-18 08:50:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.21 Mbit/s
95th percentile per-packet one-way delay: 55.604 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.21 Mbit/s
95th percentile per-packet one-way delay: 55.604 ms
Loss rate: 0.00%
```

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

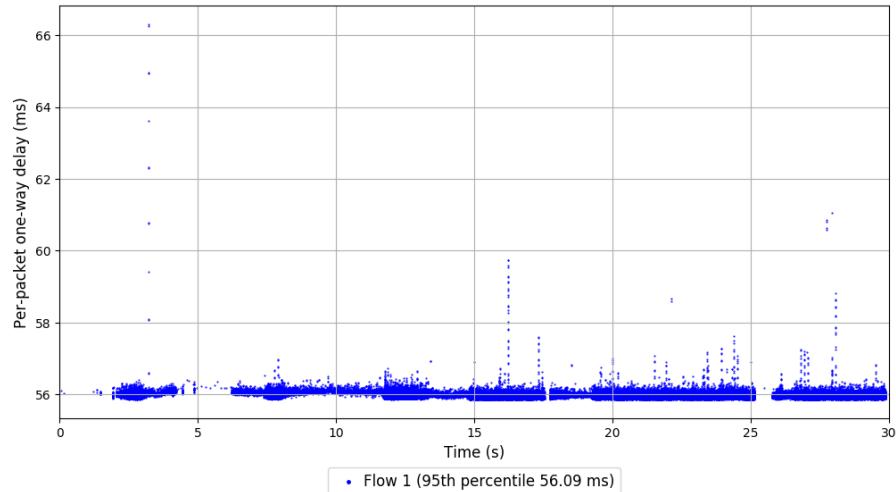
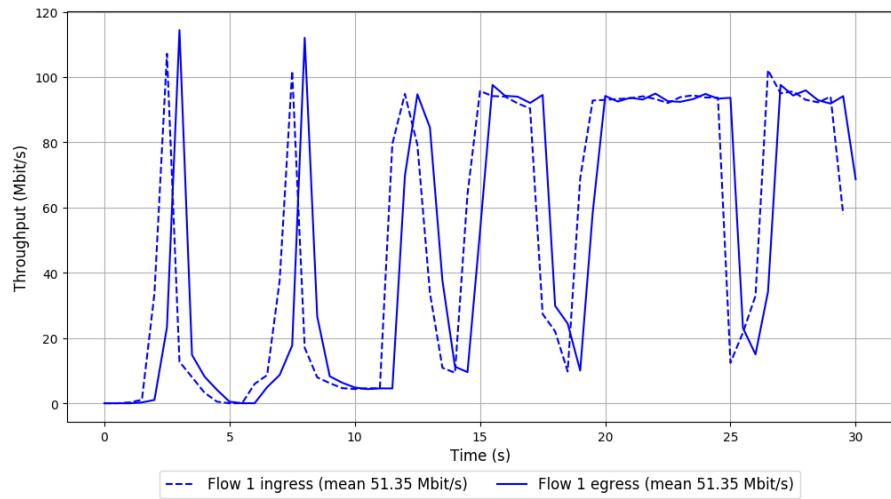


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-01-18 05:51:51
End at: 2019-01-18 05:52:21
Local clock offset: -0.375 ms
Remote clock offset: -1.376 ms

# Below is generated by plot.py at 2019-01-18 08:50:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 51.35 Mbit/s
95th percentile per-packet one-way delay: 56.091 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 51.35 Mbit/s
95th percentile per-packet one-way delay: 56.091 ms
Loss rate: 0.00%
```

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

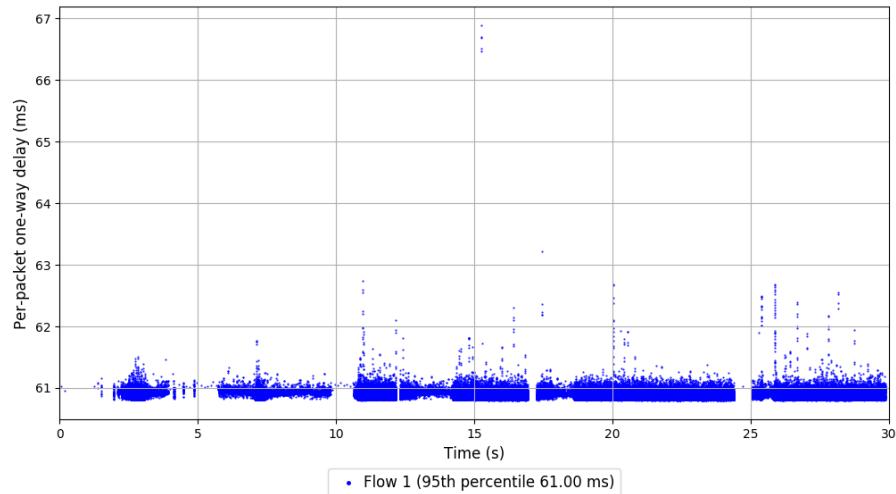
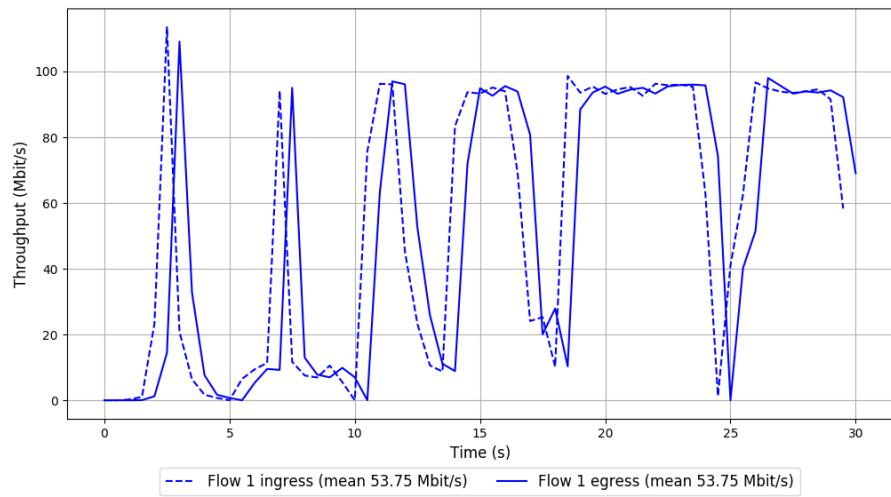


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-01-18 06:25:12
End at: 2019-01-18 06:25:42
Local clock offset: 0.256 ms
Remote clock offset: 0.504 ms

# Below is generated by plot.py at 2019-01-18 08:50:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.75 Mbit/s
95th percentile per-packet one-way delay: 60.999 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 53.75 Mbit/s
95th percentile per-packet one-way delay: 60.999 ms
Loss rate: 0.01%
```

Run 4: Report of QUIC Cubic — Data Link

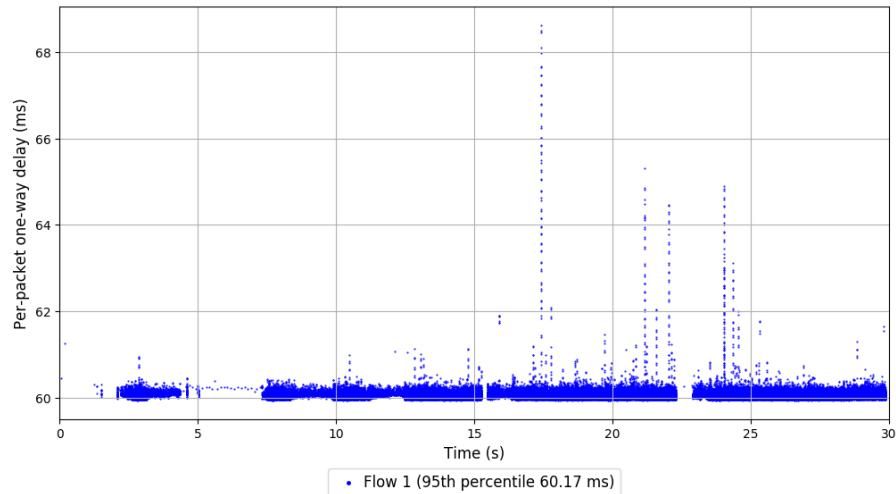
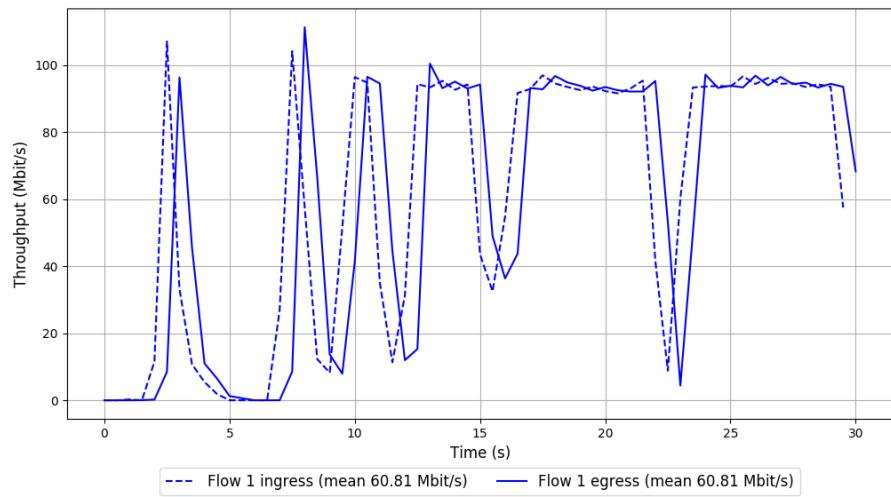


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-01-18 06:56:19
End at: 2019-01-18 06:56:49
Local clock offset: -0.085 ms
Remote clock offset: -0.172 ms

# Below is generated by plot.py at 2019-01-18 08:50:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.81 Mbit/s
95th percentile per-packet one-way delay: 60.175 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 60.81 Mbit/s
95th percentile per-packet one-way delay: 60.175 ms
Loss rate: 0.01%
```

Run 5: Report of QUIC Cubic — Data Link

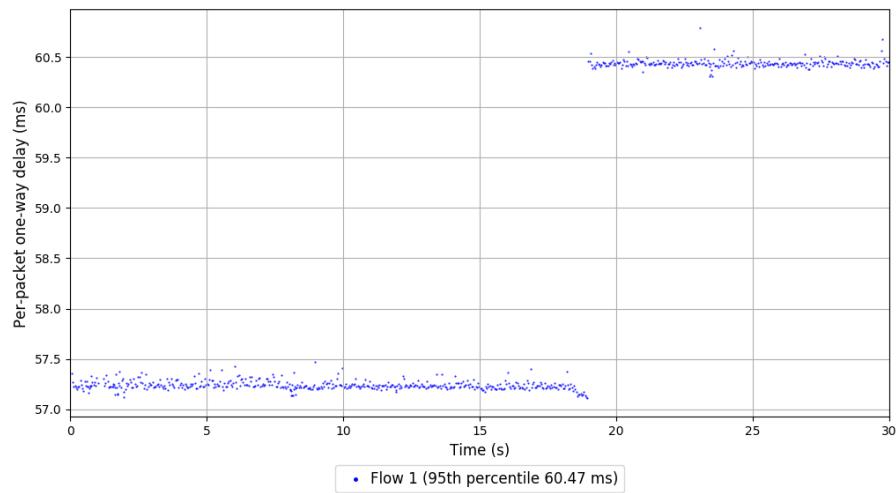
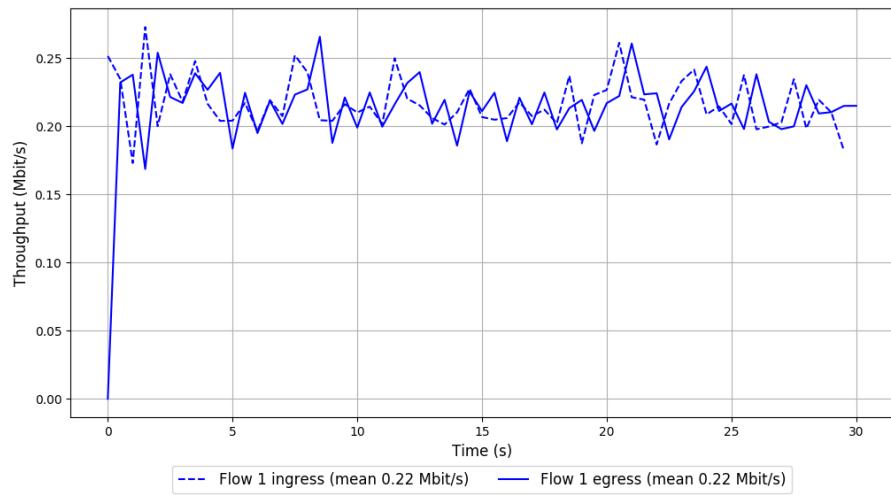


Run 1: Statistics of SCReAM

```
Start at: 2019-01-18 04:39:58
End at: 2019-01-18 04:40:28
Local clock offset: 0.304 ms
Remote clock offset: 0.407 ms

# Below is generated by plot.py at 2019-01-18 08:50:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.466 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.466 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

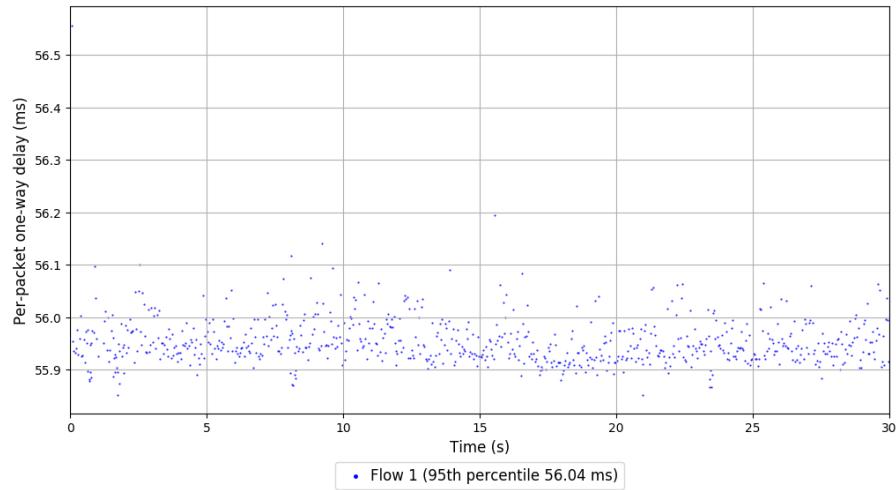
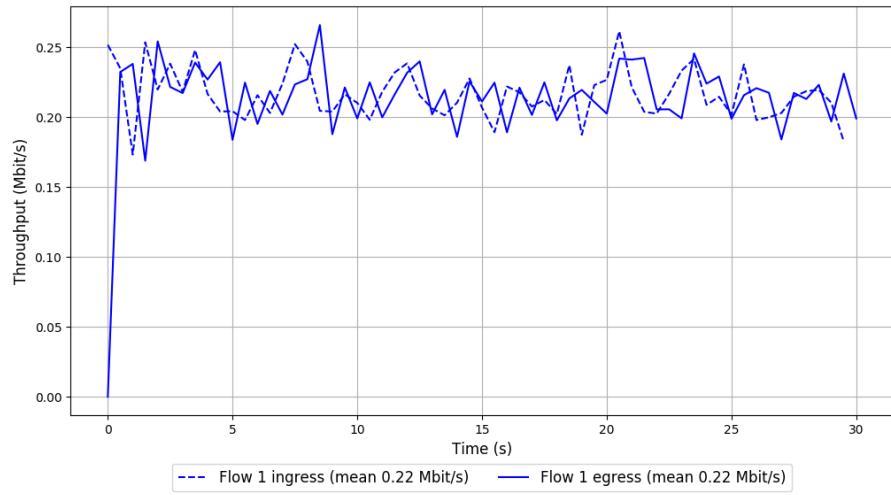


Run 2: Statistics of SCReAM

```
Start at: 2019-01-18 05:11:47
End at: 2019-01-18 05:12:17
Local clock offset: -0.088 ms
Remote clock offset: -1.287 ms

# Below is generated by plot.py at 2019-01-18 08:50:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.036 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.036 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

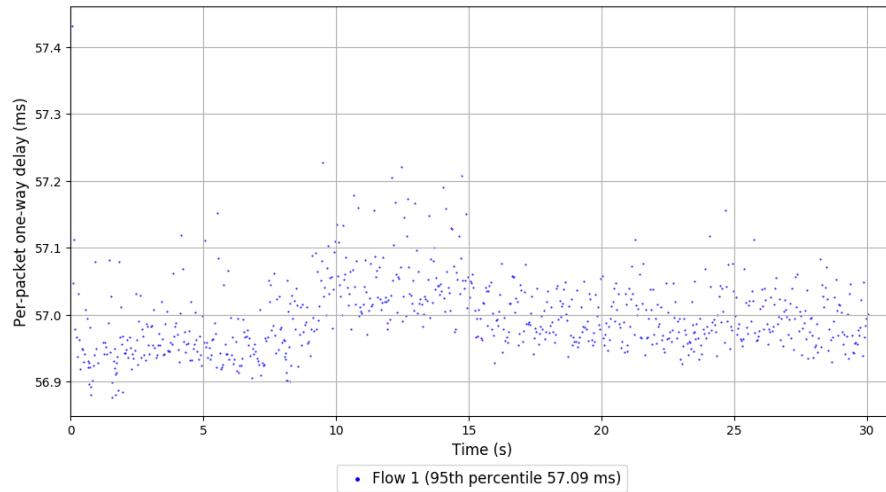
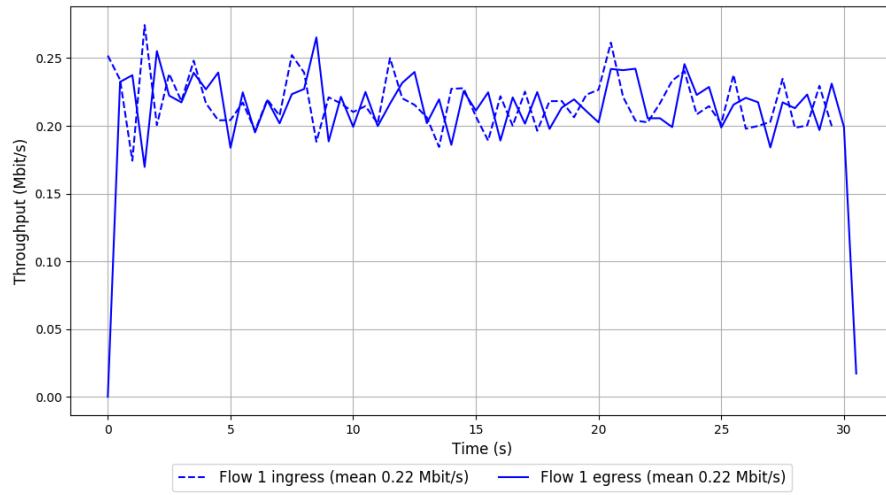


Run 3: Statistics of SCReAM

```
Start at: 2019-01-18 05:43:41
End at: 2019-01-18 05:44:11
Local clock offset: -0.159 ms
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2019-01-18 08:50:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.089 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.089 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

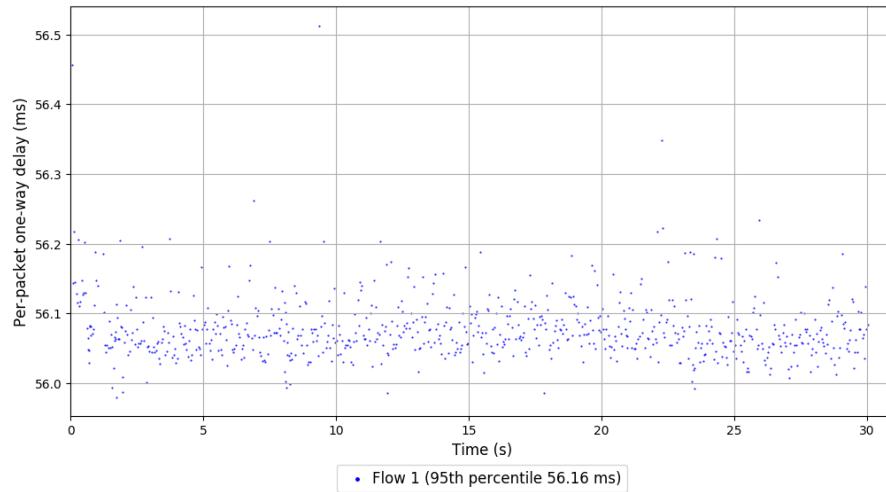
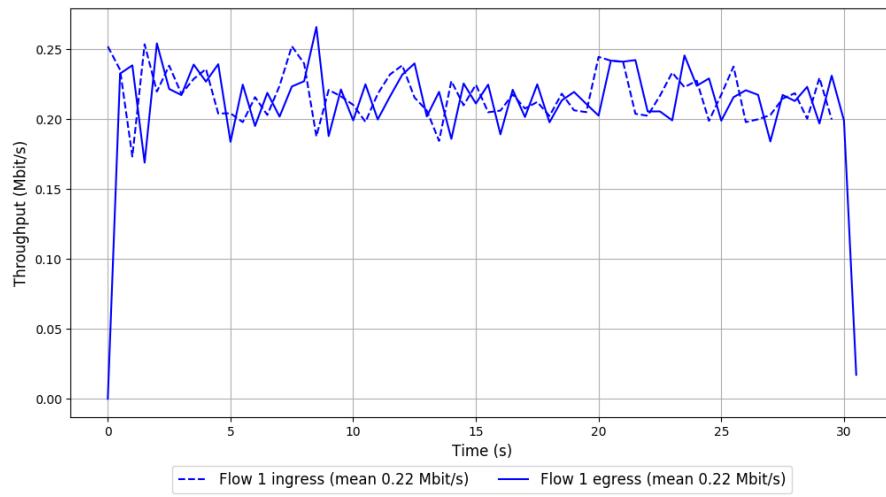


Run 4: Statistics of SCReAM

```
Start at: 2019-01-18 06:17:15
End at: 2019-01-18 06:17:45
Local clock offset: -0.358 ms
Remote clock offset: -1.408 ms

# Below is generated by plot.py at 2019-01-18 08:50:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.158 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.158 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

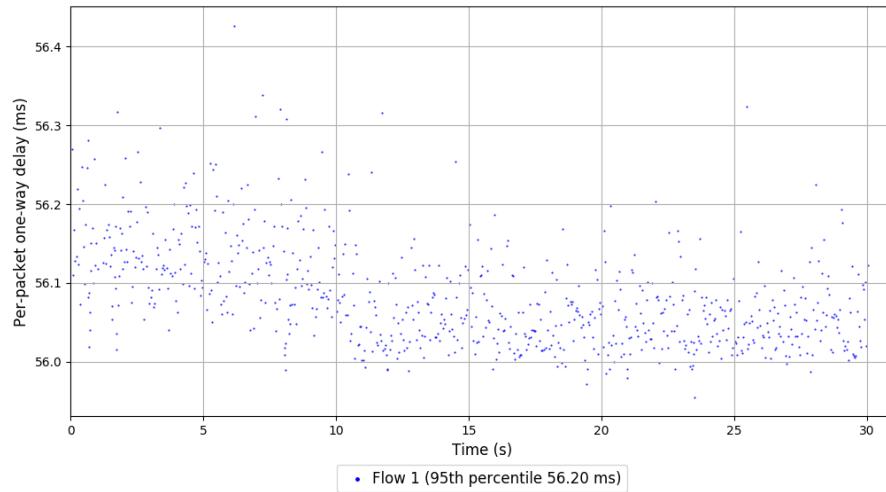
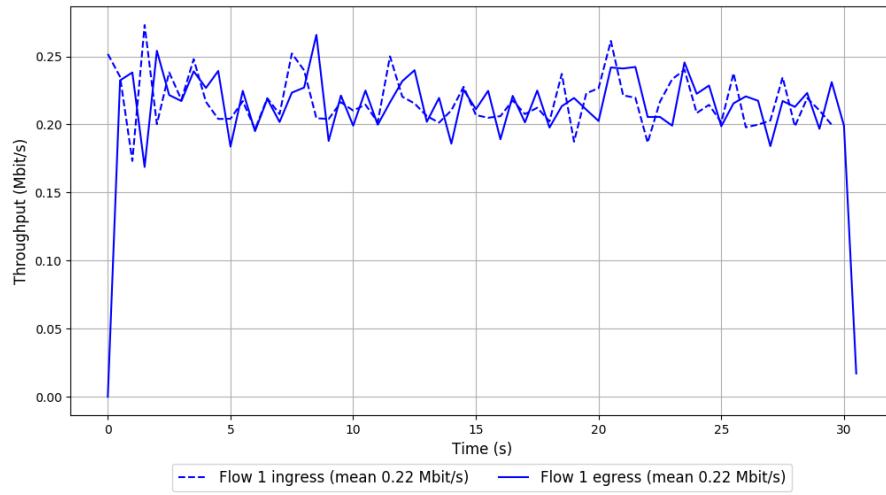


Run 5: Statistics of SCReAM

```
Start at: 2019-01-18 06:48:56
End at: 2019-01-18 06:49:26
Local clock offset: -0.17 ms
Remote clock offset: -1.305 ms

# Below is generated by plot.py at 2019-01-18 08:50:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.204 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.204 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

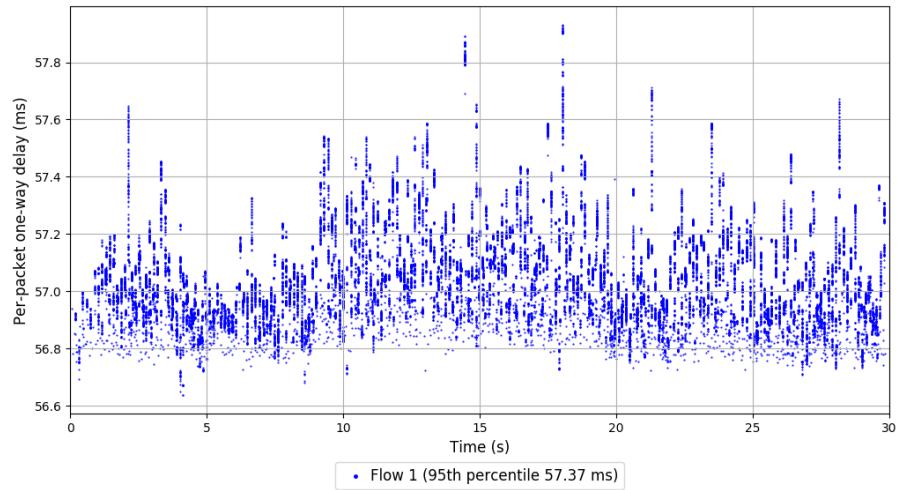
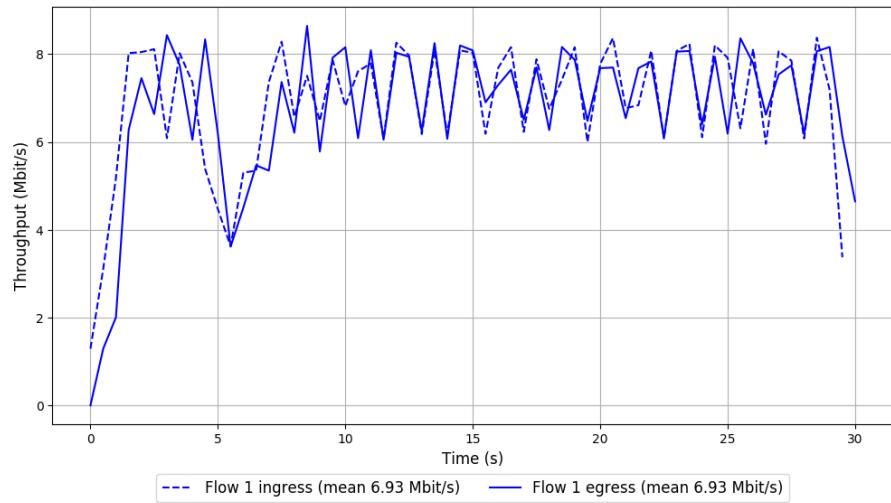


Run 1: Statistics of Sprout

```
Start at: 2019-01-18 04:36:00
End at: 2019-01-18 04:36:30
Local clock offset: -0.002 ms
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2019-01-18 08:50:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.93 Mbit/s
95th percentile per-packet one-way delay: 57.368 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.93 Mbit/s
95th percentile per-packet one-way delay: 57.368 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

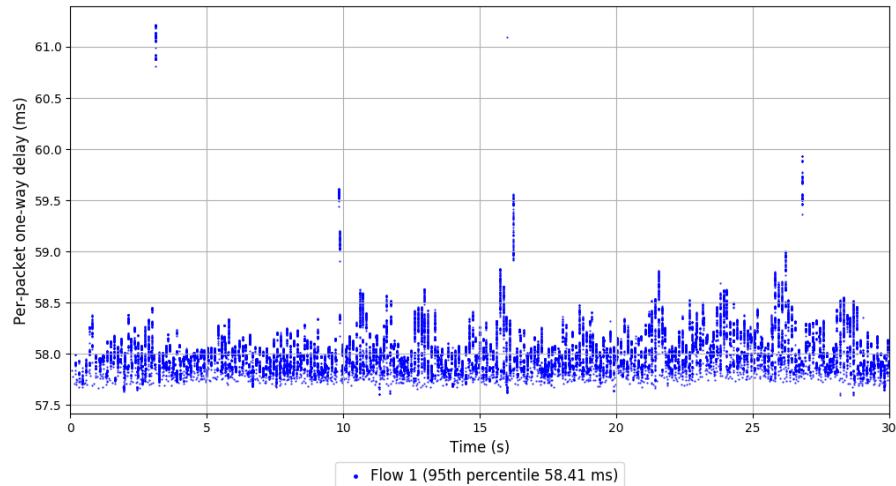
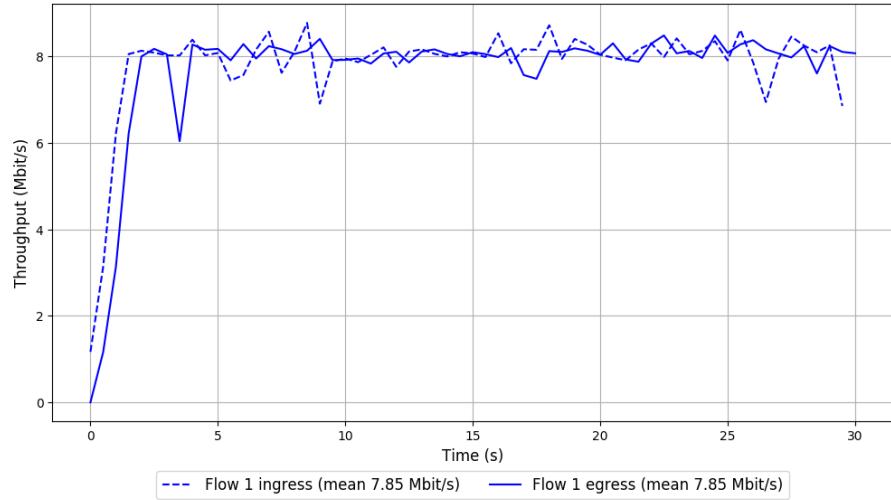


Run 2: Statistics of Sprout

```
Start at: 2019-01-18 05:07:46
End at: 2019-01-18 05:08:16
Local clock offset: -0.226 ms
Remote clock offset: 0.569 ms

# Below is generated by plot.py at 2019-01-18 08:50:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.85 Mbit/s
95th percentile per-packet one-way delay: 58.412 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.85 Mbit/s
95th percentile per-packet one-way delay: 58.412 ms
Loss rate: 0.00%
```

## Run 2: Report of Sprout — Data Link

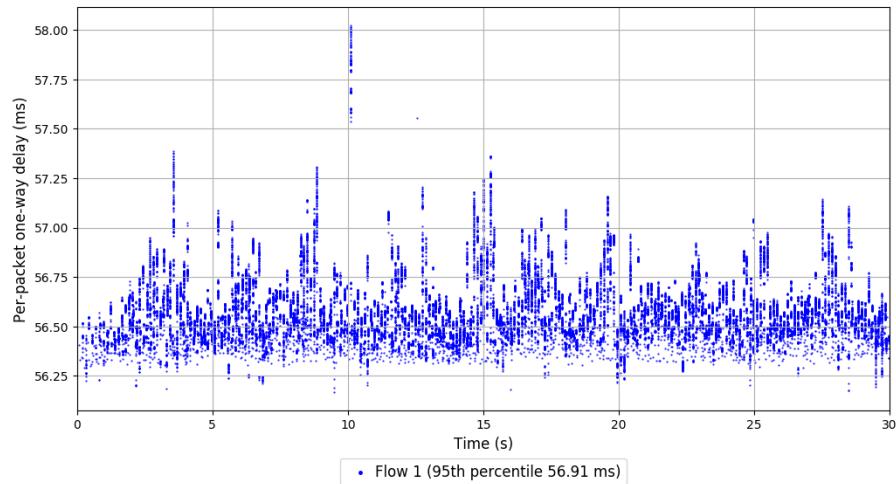
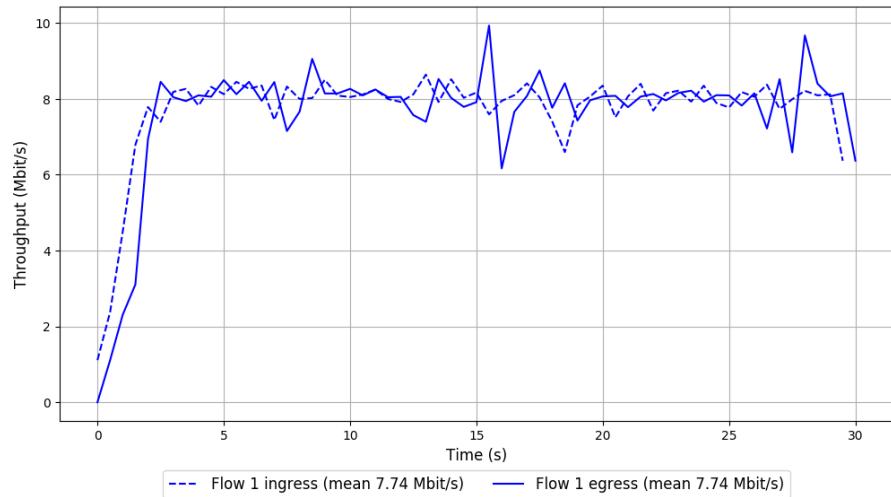


Run 3: Statistics of Sprout

```
Start at: 2019-01-18 05:39:29
End at: 2019-01-18 05:39:59
Local clock offset: -0.183 ms
Remote clock offset: -0.648 ms

# Below is generated by plot.py at 2019-01-18 08:50:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.74 Mbit/s
95th percentile per-packet one-way delay: 56.907 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.74 Mbit/s
95th percentile per-packet one-way delay: 56.907 ms
Loss rate: 0.00%
```

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

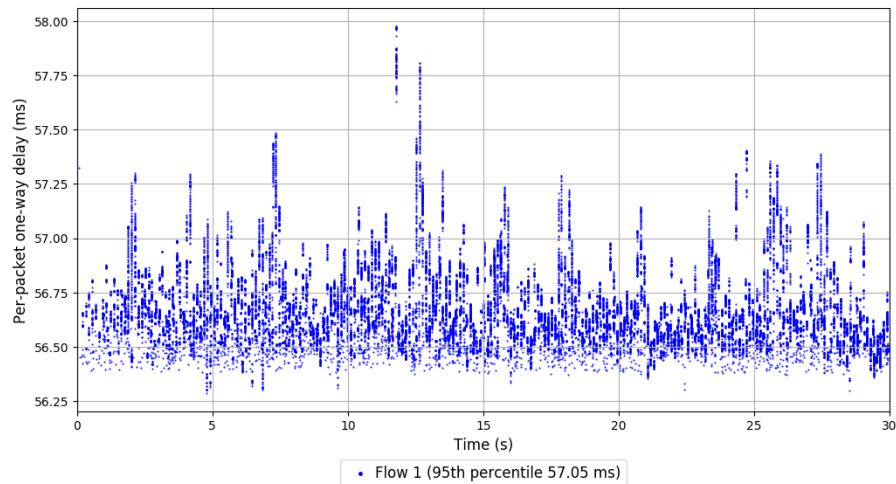
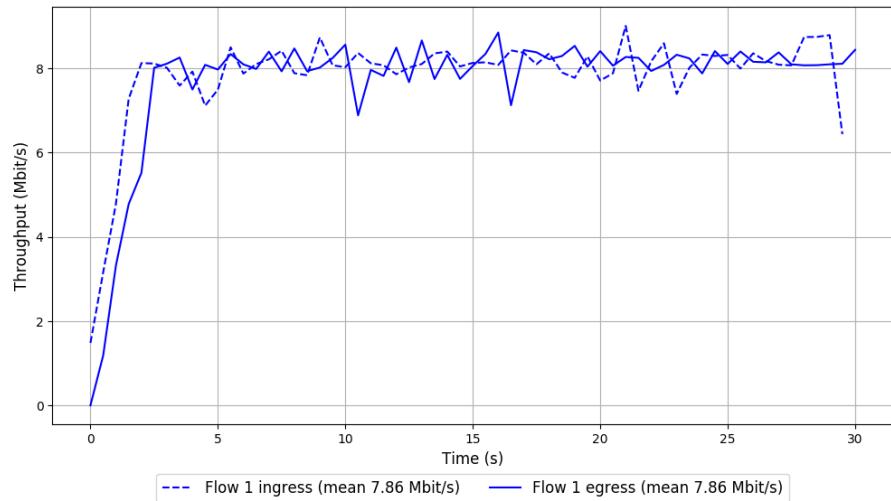


Run 4: Statistics of Sprout

```
Start at: 2019-01-18 06:13:10
End at: 2019-01-18 06:13:40
Local clock offset: -0.166 ms
Remote clock offset: -0.733 ms

# Below is generated by plot.py at 2019-01-18 08:50:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.86 Mbit/s
95th percentile per-packet one-way delay: 57.045 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.86 Mbit/s
95th percentile per-packet one-way delay: 57.045 ms
Loss rate: 0.00%
```

## Run 4: Report of Sprout — Data Link

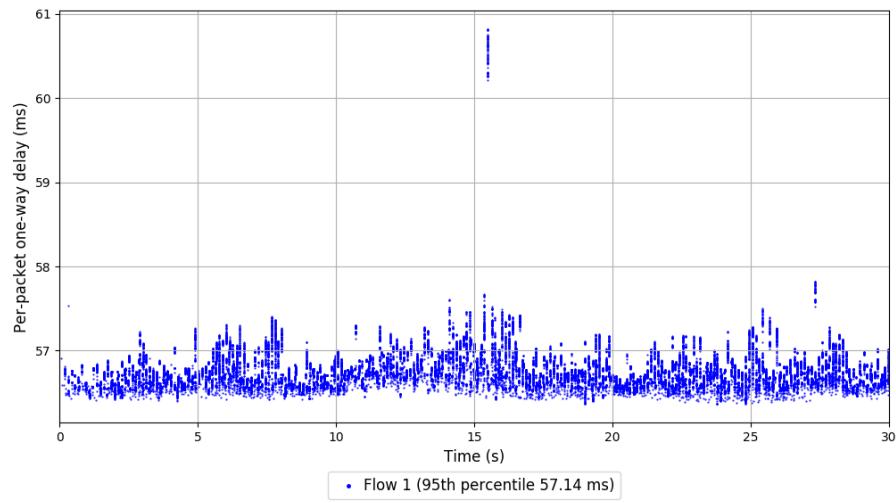
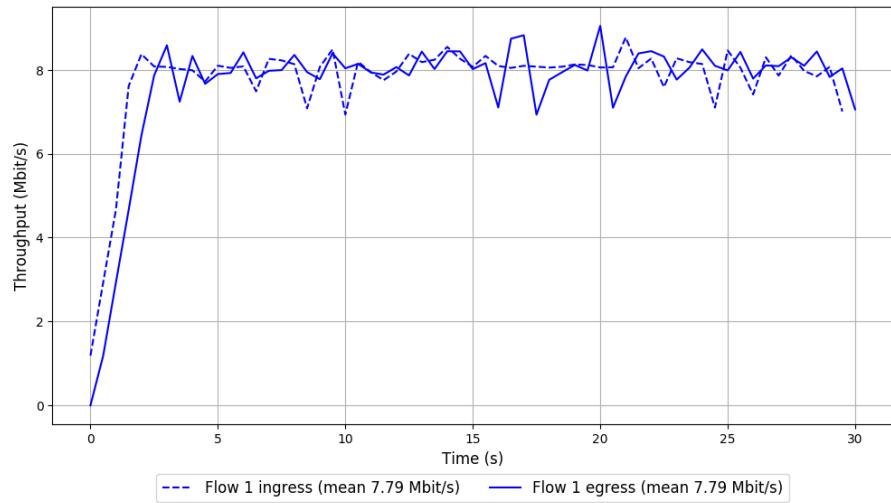


Run 5: Statistics of Sprout

```
Start at: 2019-01-18 06:44:57
End at: 2019-01-18 06:45:27
Local clock offset: -0.575 ms
Remote clock offset: -1.446 ms

# Below is generated by plot.py at 2019-01-18 08:50:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.79 Mbit/s
95th percentile per-packet one-way delay: 57.138 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.79 Mbit/s
95th percentile per-packet one-way delay: 57.138 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

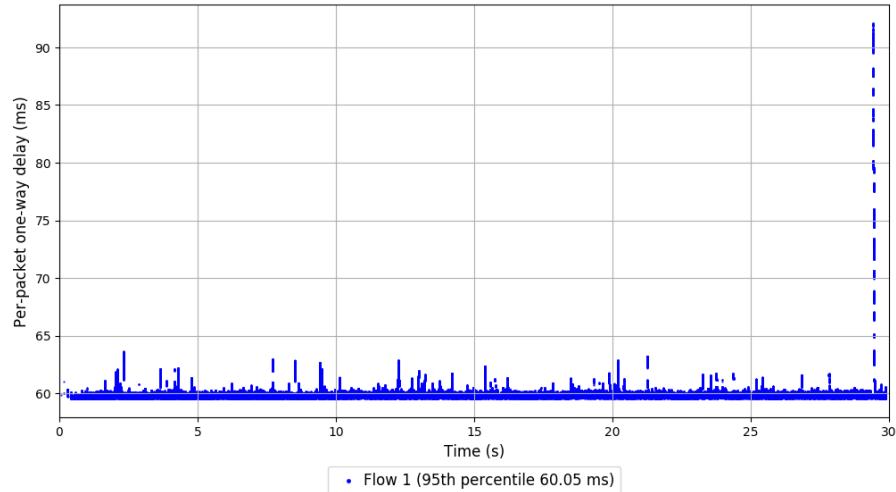
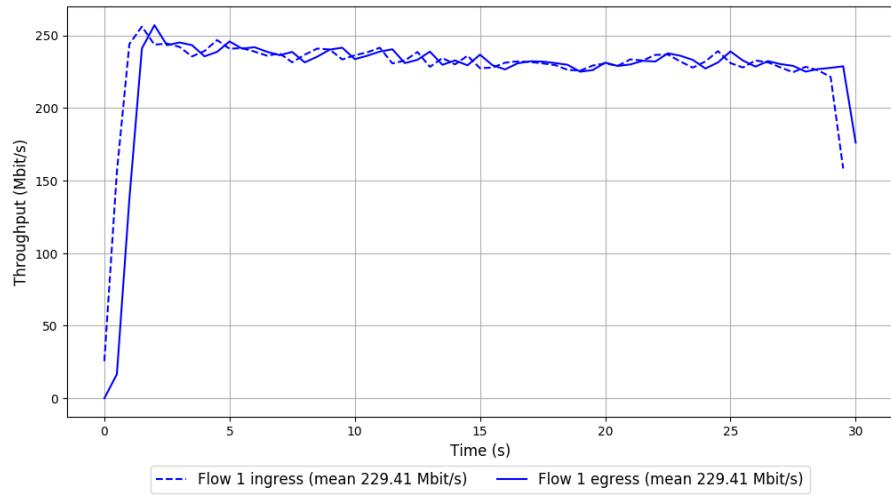


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-01-18 04:29:44
End at: 2019-01-18 04:30:14
Local clock offset: -0.186 ms
Remote clock offset: -0.472 ms

# Below is generated by plot.py at 2019-01-18 08:52:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 229.41 Mbit/s
95th percentile per-packet one-way delay: 60.047 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 229.41 Mbit/s
95th percentile per-packet one-way delay: 60.047 ms
Loss rate: 0.01%
```

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

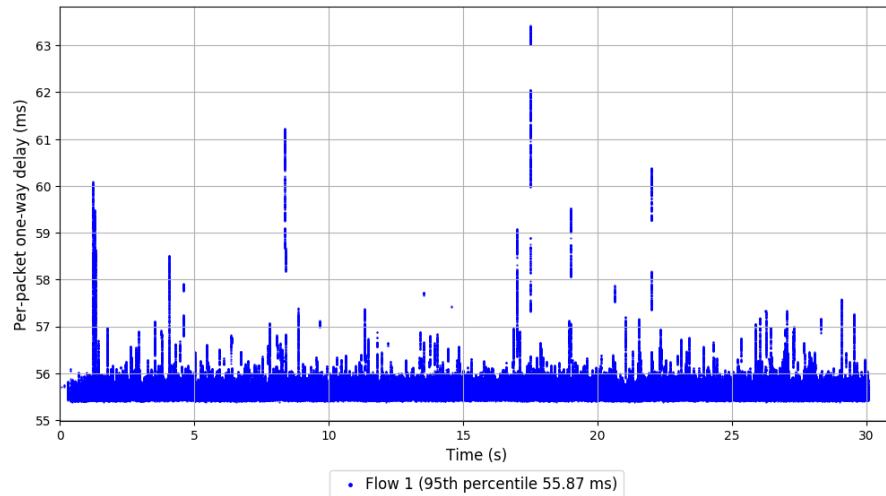
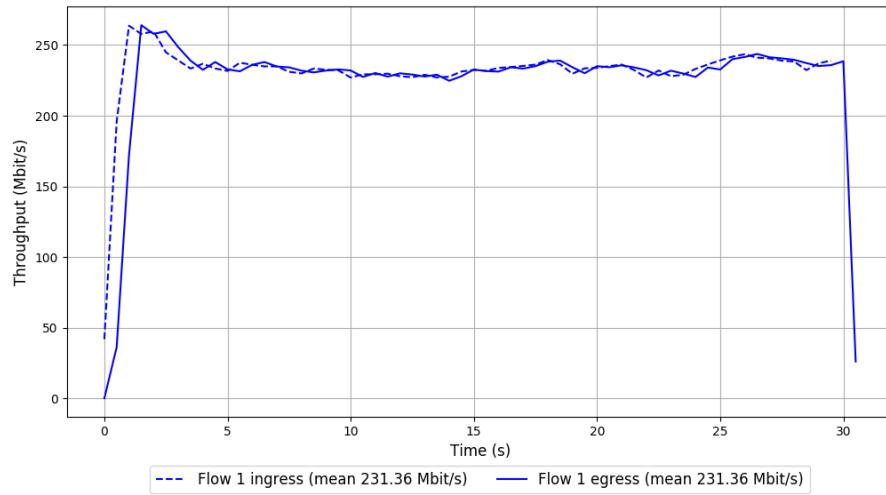


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-01-18 05:01:15
End at: 2019-01-18 05:01:45
Local clock offset: 0.128 ms
Remote clock offset: -1.329 ms

# Below is generated by plot.py at 2019-01-18 08:53:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 231.36 Mbit/s
95th percentile per-packet one-way delay: 55.872 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 231.36 Mbit/s
95th percentile per-packet one-way delay: 55.872 ms
Loss rate: 0.00%
```

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

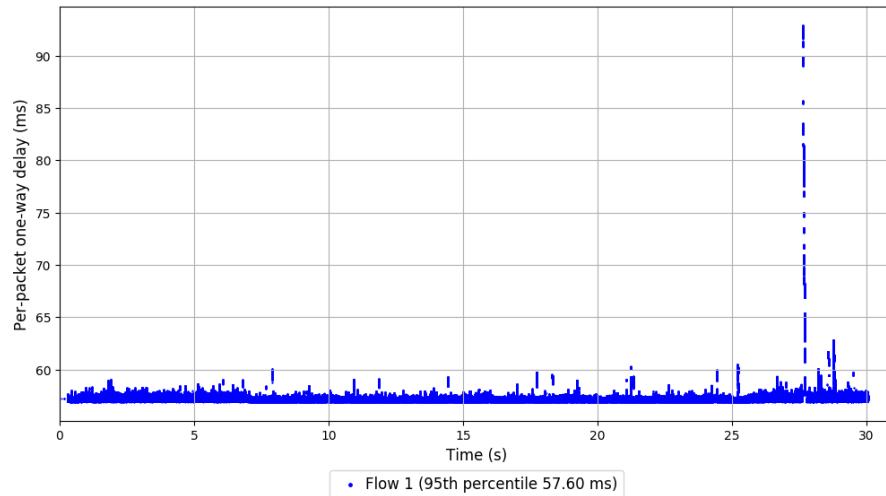
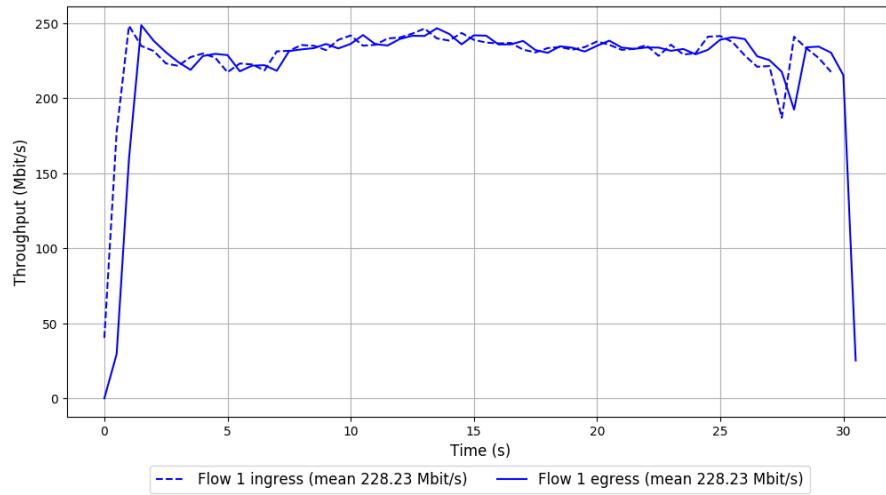


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-01-18 05:33:13
End at: 2019-01-18 05:33:43
Local clock offset: -0.129 ms
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2019-01-18 08:53:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 228.23 Mbit/s
95th percentile per-packet one-way delay: 57.598 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 228.23 Mbit/s
95th percentile per-packet one-way delay: 57.598 ms
Loss rate: 0.00%
```

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

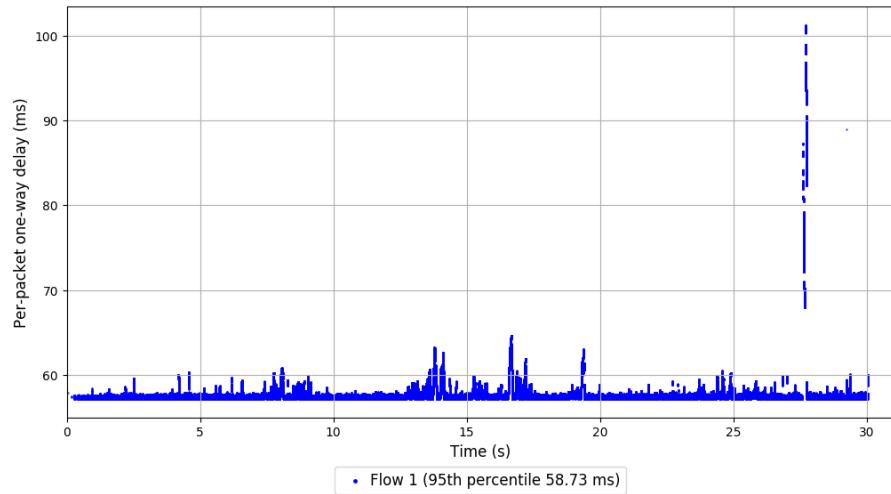
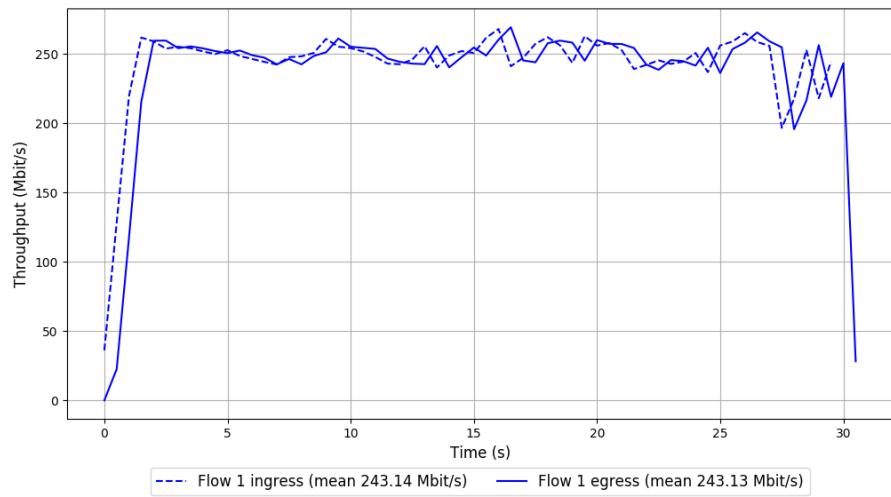


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-01-18 06:06:25
End at: 2019-01-18 06:06:55
Local clock offset: -0.41 ms
Remote clock offset: -0.106 ms

# Below is generated by plot.py at 2019-01-18 08:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 243.13 Mbit/s
95th percentile per-packet one-way delay: 58.727 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 243.13 Mbit/s
95th percentile per-packet one-way delay: 58.727 ms
Loss rate: 0.00%
```

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

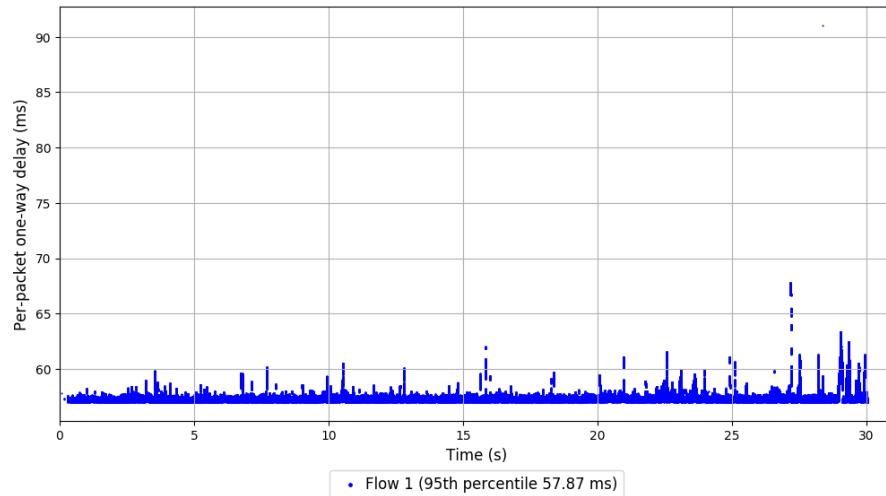
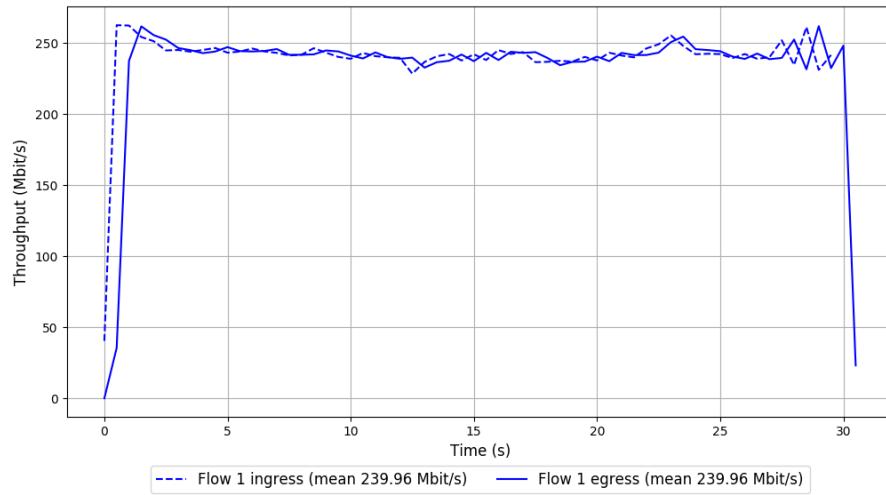


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-01-18 06:38:45
End at: 2019-01-18 06:39:15
Local clock offset: -0.161 ms
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2019-01-18 08:53:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 239.96 Mbit/s
95th percentile per-packet one-way delay: 57.870 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 239.96 Mbit/s
95th percentile per-packet one-way delay: 57.870 ms
Loss rate: 0.00%
```

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

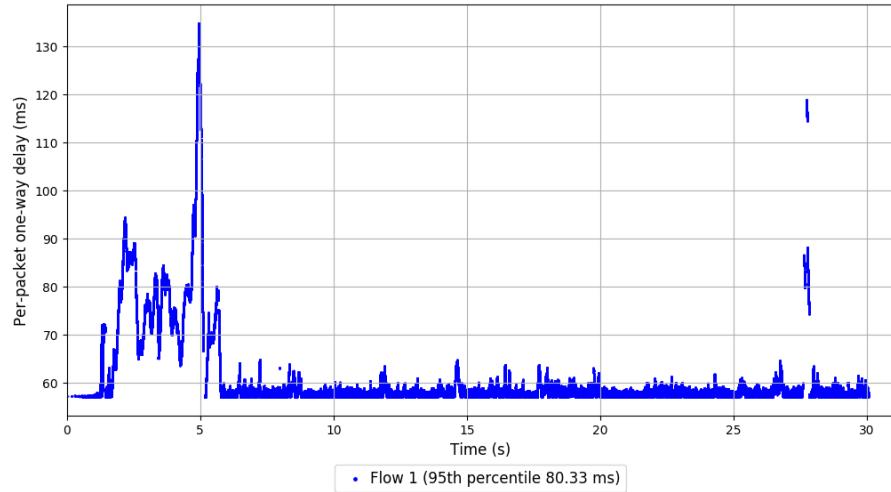
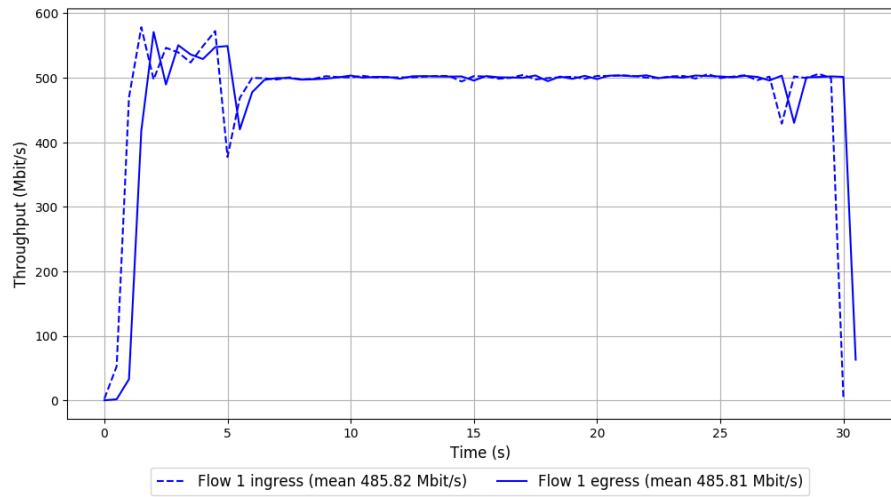


Run 1: Statistics of TCP Vegas

```
Start at: 2019-01-18 04:28:11
End at: 2019-01-18 04:28:41
Local clock offset: -0.282 ms
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2019-01-18 08:55:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 485.81 Mbit/s
95th percentile per-packet one-way delay: 80.332 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 485.81 Mbit/s
95th percentile per-packet one-way delay: 80.332 ms
Loss rate: 0.00%
```

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

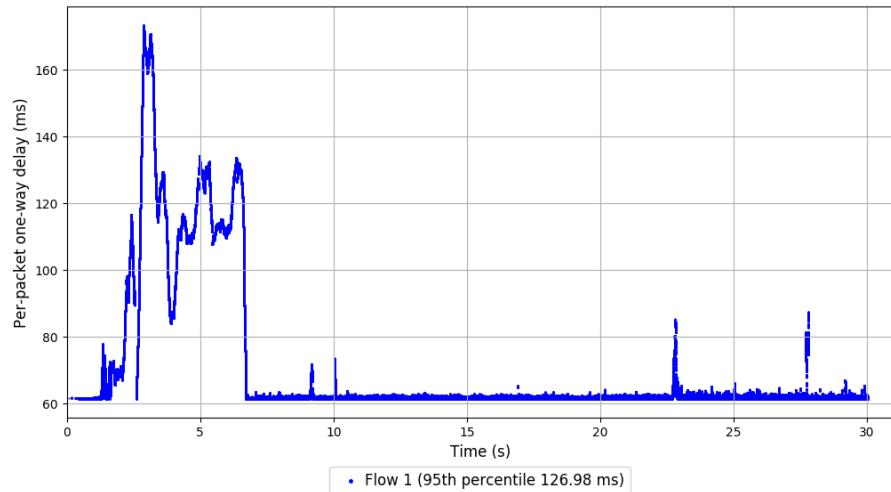
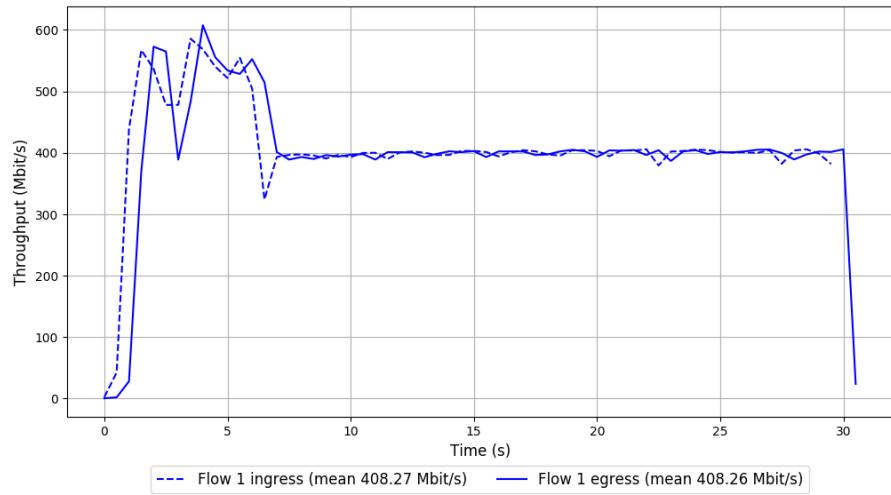


Run 2: Statistics of TCP Vegas

```
Start at: 2019-01-18 04:59:35
End at: 2019-01-18 05:00:05
Local clock offset: 0.098 ms
Remote clock offset: 1.317 ms

# Below is generated by plot.py at 2019-01-18 08:58:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 408.26 Mbit/s
95th percentile per-packet one-way delay: 126.982 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 408.26 Mbit/s
95th percentile per-packet one-way delay: 126.982 ms
Loss rate: 0.01%
```

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

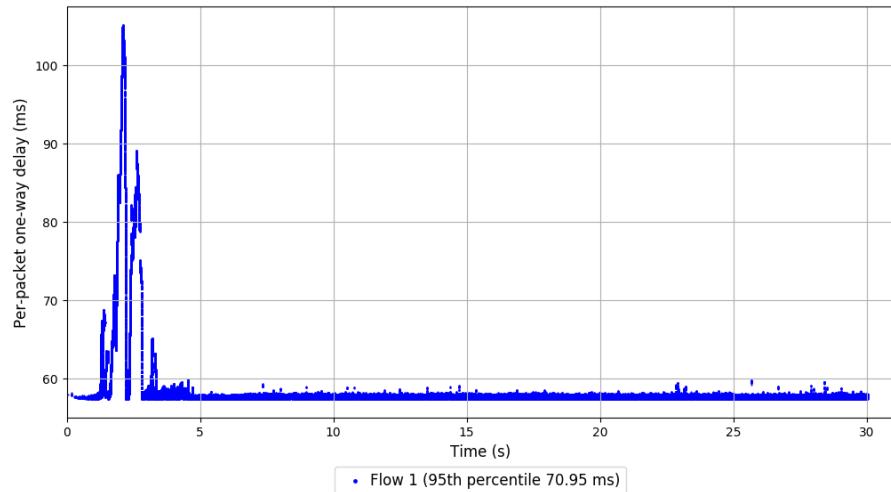
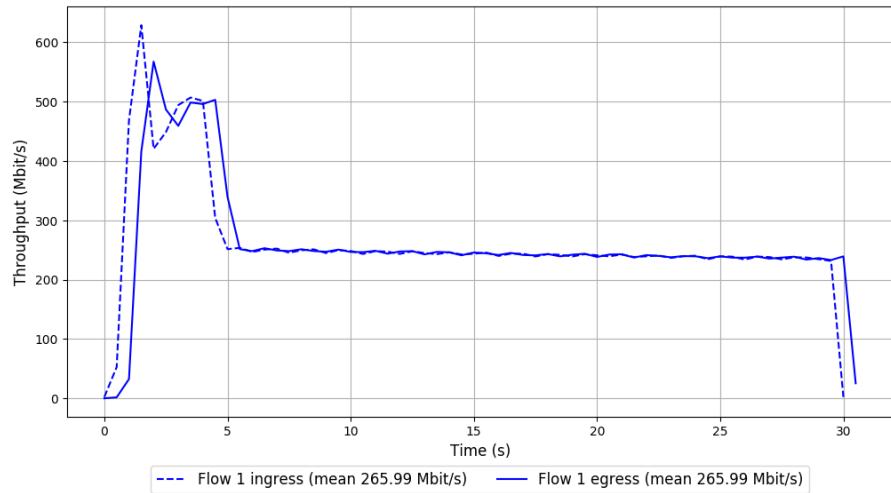


Run 3: Statistics of TCP Vegas

```
Start at: 2019-01-18 05:31:50
End at: 2019-01-18 05:32:20
Local clock offset: -0.16 ms
Remote clock offset: 0.078 ms

# Below is generated by plot.py at 2019-01-18 08:58:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 265.99 Mbit/s
95th percentile per-packet one-way delay: 70.953 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 265.99 Mbit/s
95th percentile per-packet one-way delay: 70.953 ms
Loss rate: 0.00%
```

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

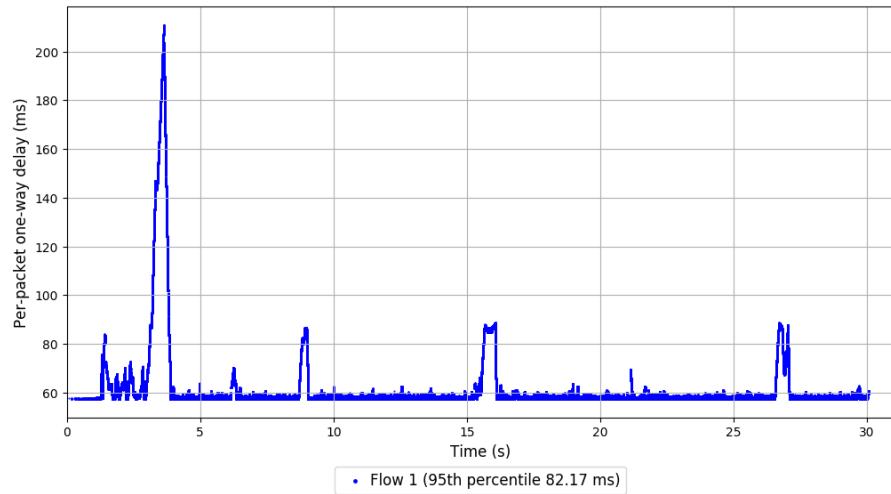
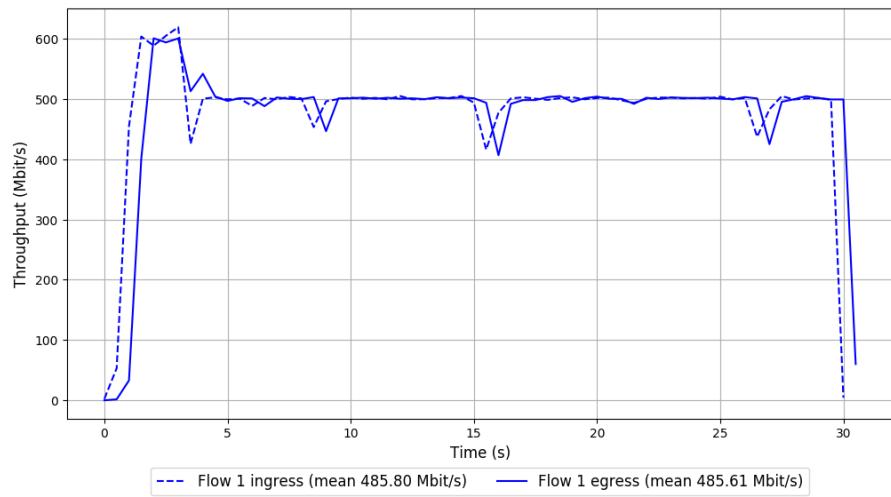


Run 4: Statistics of TCP Vegas

```
Start at: 2019-01-18 06:04:45
End at: 2019-01-18 06:05:15
Local clock offset: -0.539 ms
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2019-01-18 09:02:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 485.61 Mbit/s
95th percentile per-packet one-way delay: 82.171 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 485.61 Mbit/s
95th percentile per-packet one-way delay: 82.171 ms
Loss rate: 0.04%
```

Run 4: Report of TCP Vegas — Data Link

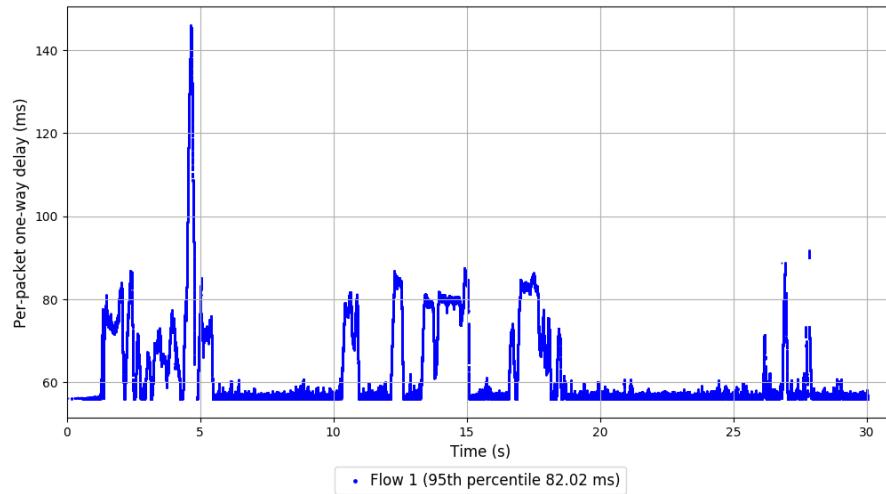
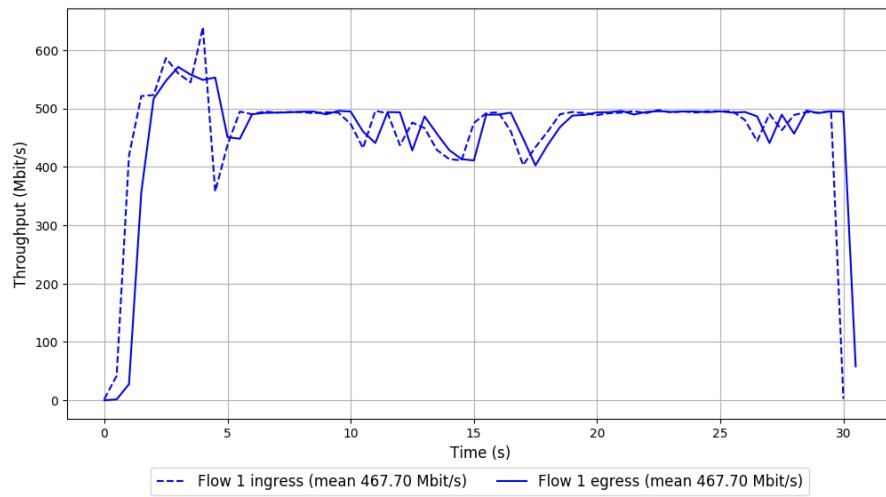


Run 5: Statistics of TCP Vegas

```
Start at: 2019-01-18 06:37:13
End at: 2019-01-18 06:37:43
Local clock offset: -0.384 ms
Remote clock offset: -1.465 ms

# Below is generated by plot.py at 2019-01-18 09:02:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 467.70 Mbit/s
95th percentile per-packet one-way delay: 82.017 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 467.70 Mbit/s
95th percentile per-packet one-way delay: 82.017 ms
Loss rate: 0.00%
```

Run 5: Report of TCP Vegas — Data Link

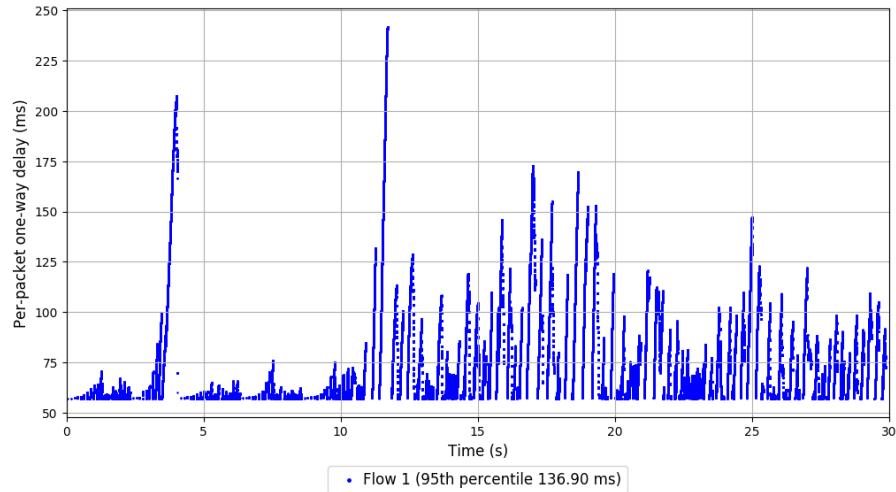
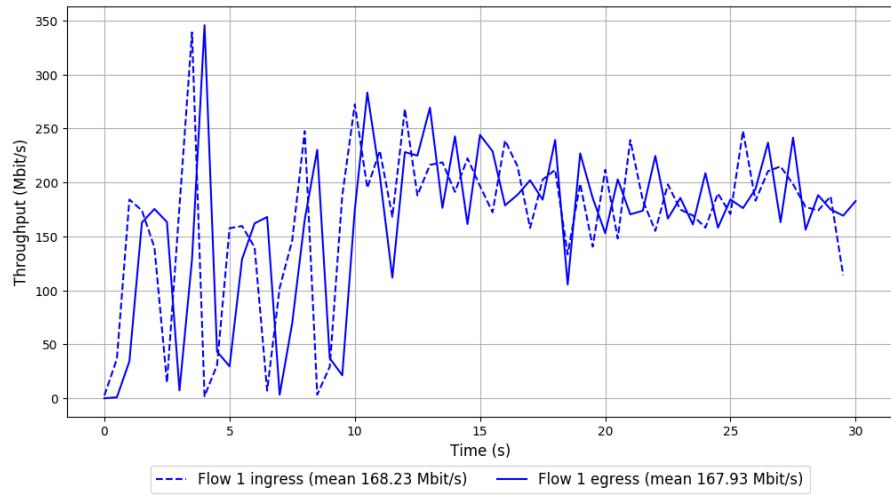


Run 1: Statistics of Verus

```
Start at: 2019-01-18 04:31:13
End at: 2019-01-18 04:31:44
Local clock offset: -0.172 ms
Remote clock offset: -0.153 ms

# Below is generated by plot.py at 2019-01-18 09:02:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 167.93 Mbit/s
95th percentile per-packet one-way delay: 136.895 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 167.93 Mbit/s
95th percentile per-packet one-way delay: 136.895 ms
Loss rate: 0.13%
```

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

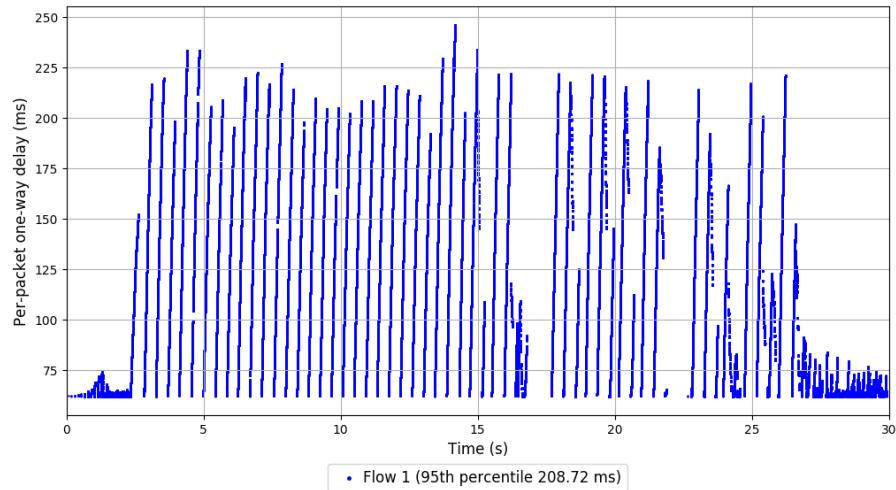
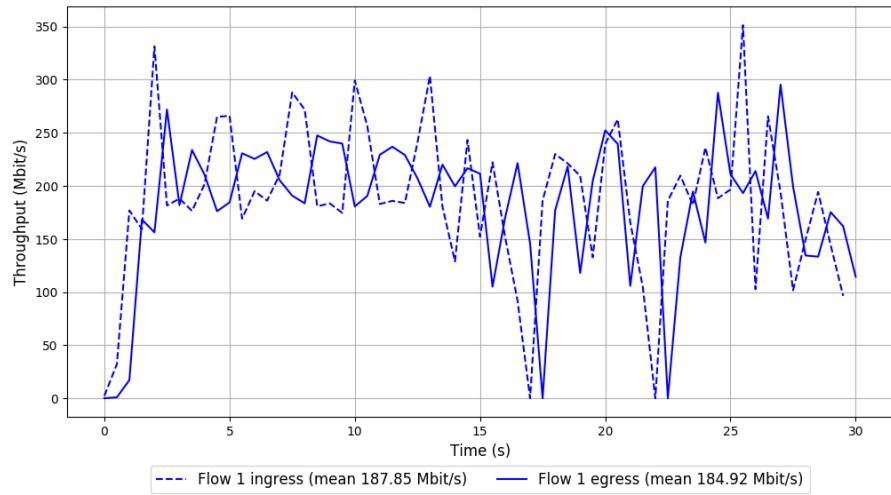


Run 2: Statistics of Verus

```
Start at: 2019-01-18 05:02:49
End at: 2019-01-18 05:03:19
Local clock offset: -0.13 ms
Remote clock offset: 1.295 ms

# Below is generated by plot.py at 2019-01-18 09:02:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 184.92 Mbit/s
95th percentile per-packet one-way delay: 208.720 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 184.92 Mbit/s
95th percentile per-packet one-way delay: 208.720 ms
Loss rate: 1.57%
```

## Run 2: Report of Verus — Data Link

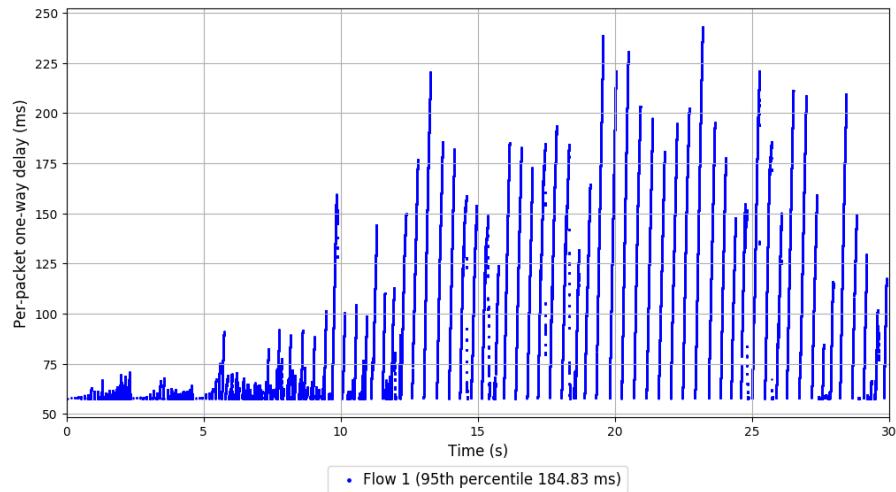
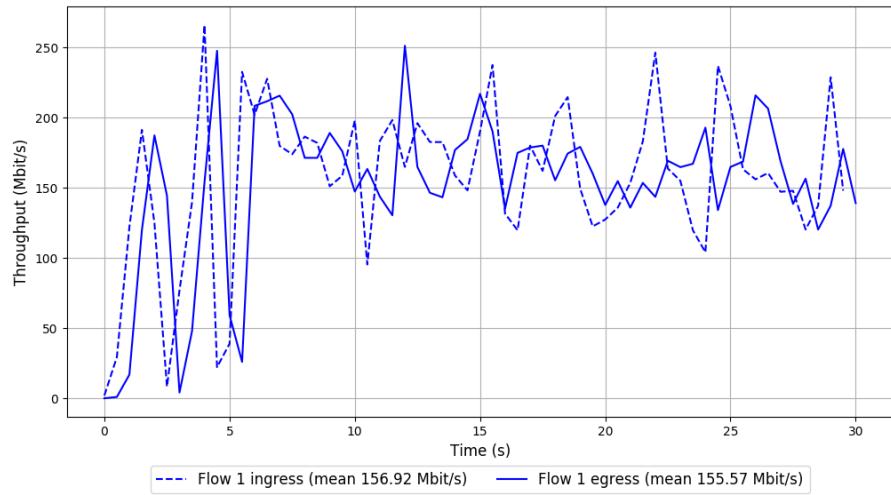


Run 3: Statistics of Verus

```
Start at: 2019-01-18 05:34:44
End at: 2019-01-18 05:35:14
Local clock offset: -0.135 ms
Remote clock offset: 0.622 ms

# Below is generated by plot.py at 2019-01-18 09:02:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 155.57 Mbit/s
95th percentile per-packet one-way delay: 184.833 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 155.57 Mbit/s
95th percentile per-packet one-way delay: 184.833 ms
Loss rate: 0.81%
```

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

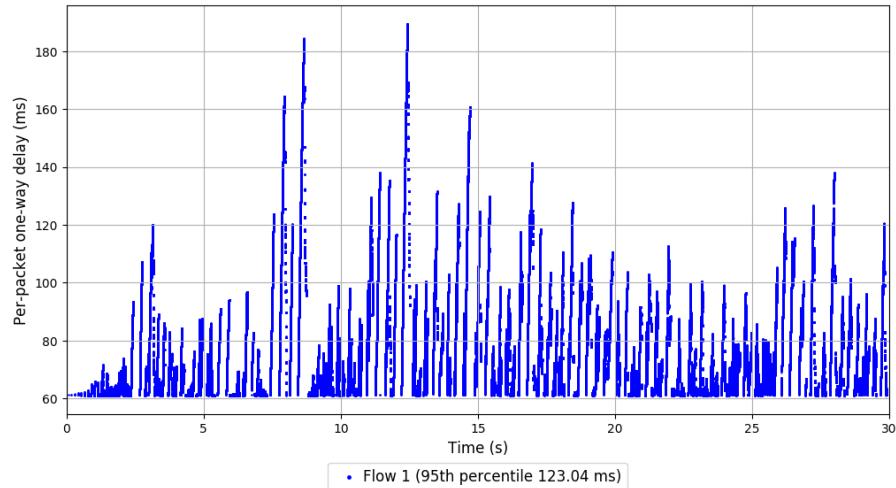
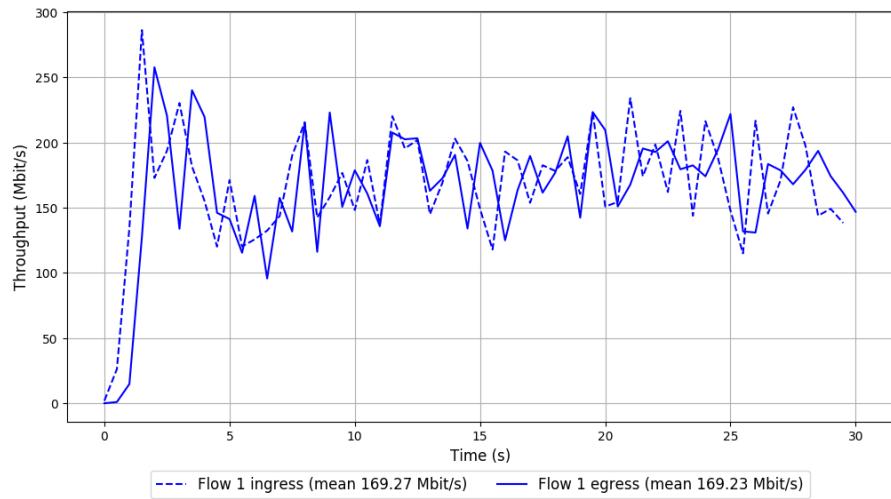


Run 4: Statistics of Verus

```
Start at: 2019-01-18 06:08:03
End at: 2019-01-18 06:08:33
Local clock offset: -0.267 ms
Remote clock offset: 0.541 ms

# Below is generated by plot.py at 2019-01-18 09:02:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 169.23 Mbit/s
95th percentile per-packet one-way delay: 123.037 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 169.23 Mbit/s
95th percentile per-packet one-way delay: 123.037 ms
Loss rate: 0.04%
```

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

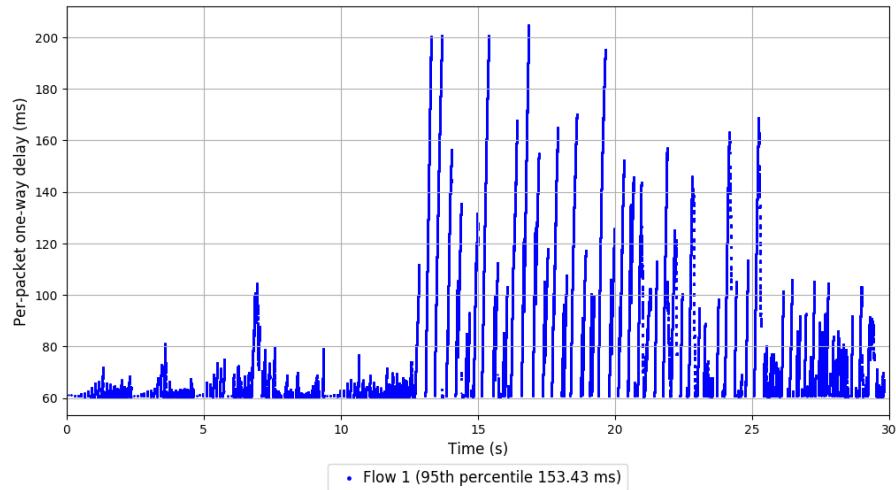
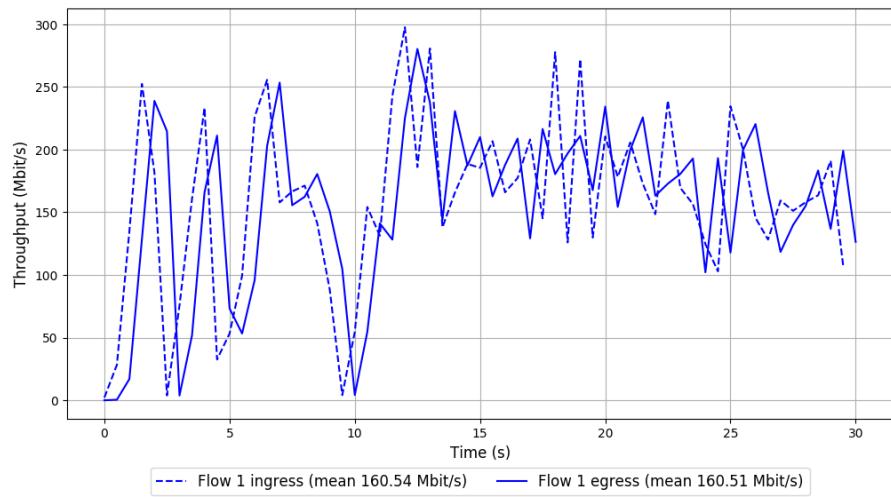


Run 5: Statistics of Verus

```
Start at: 2019-01-18 06:40:15
End at: 2019-01-18 06:40:45
Local clock offset: -0.401 ms
Remote clock offset: -0.152 ms

# Below is generated by plot.py at 2019-01-18 09:02:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 160.51 Mbit/s
95th percentile per-packet one-way delay: 153.427 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 160.51 Mbit/s
95th percentile per-packet one-way delay: 153.427 ms
Loss rate: 0.01%
```

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

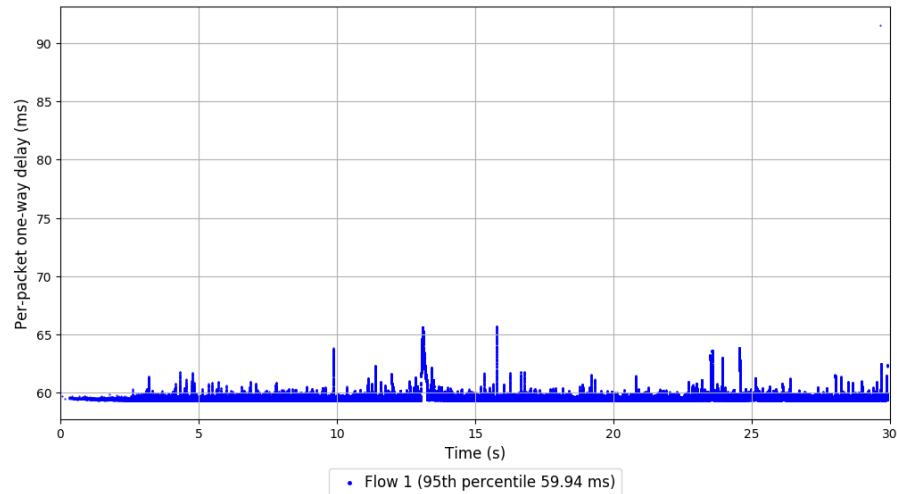
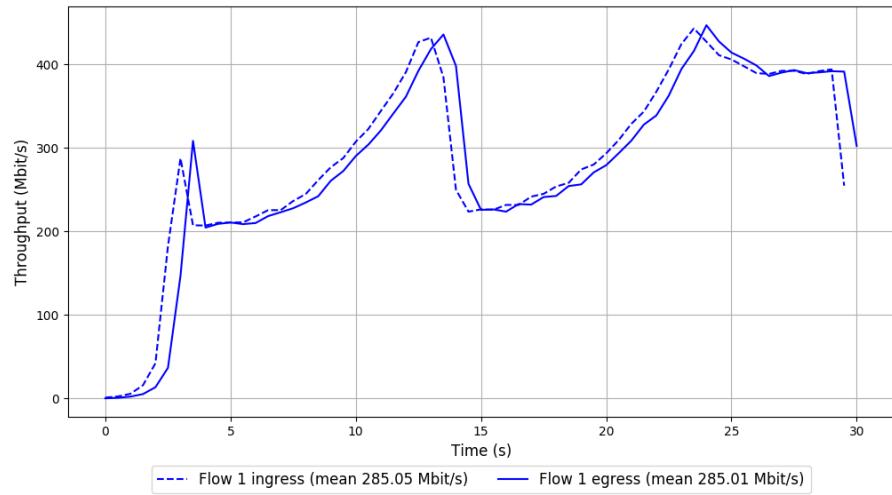


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-01-18 04:19:02
End at: 2019-01-18 04:19:32
Local clock offset: 0.175 ms
Remote clock offset: -0.685 ms

# Below is generated by plot.py at 2019-01-18 09:03:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 285.01 Mbit/s
95th percentile per-packet one-way delay: 59.937 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 285.01 Mbit/s
95th percentile per-packet one-way delay: 59.937 ms
Loss rate: 0.01%
```

Run 1: Report of PCC-Vivace — Data Link

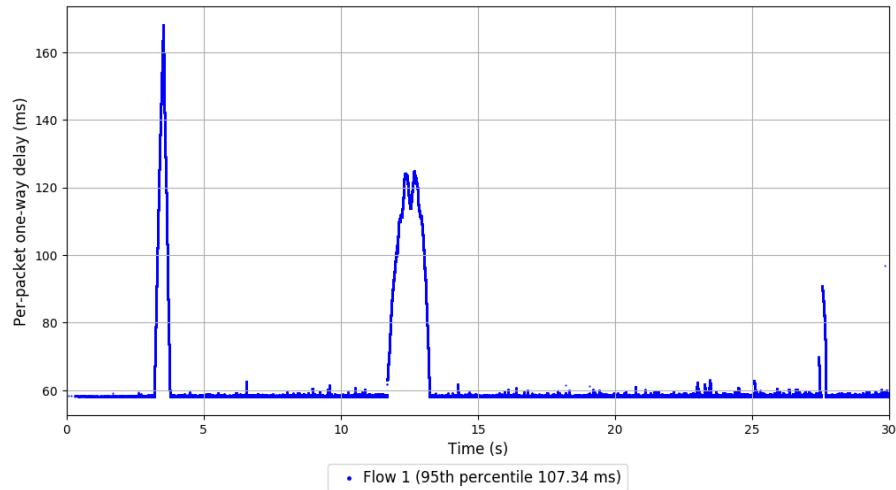
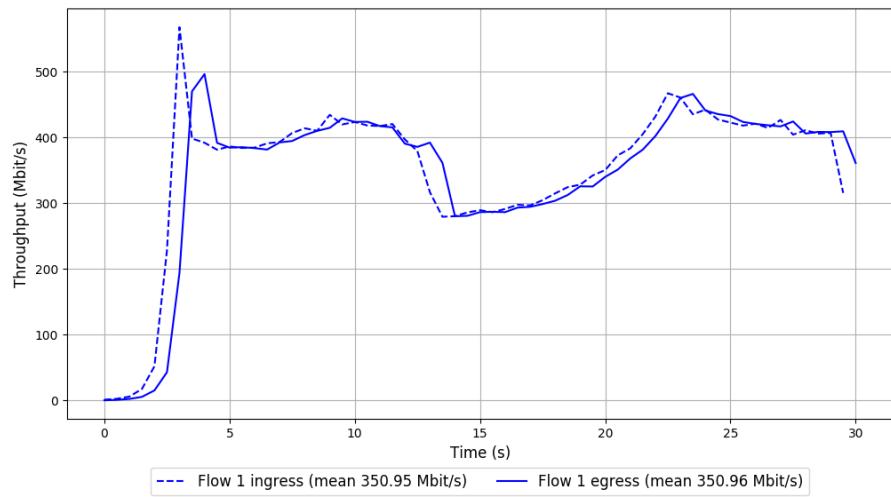


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-01-18 04:50:27
End at: 2019-01-18 04:50:57
Local clock offset: -0.356 ms
Remote clock offset: 0.735 ms

# Below is generated by plot.py at 2019-01-18 09:04:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 350.96 Mbit/s
95th percentile per-packet one-way delay: 107.338 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 350.96 Mbit/s
95th percentile per-packet one-way delay: 107.338 ms
Loss rate: 0.00%
```

Run 2: Report of PCC-Vivace — Data Link

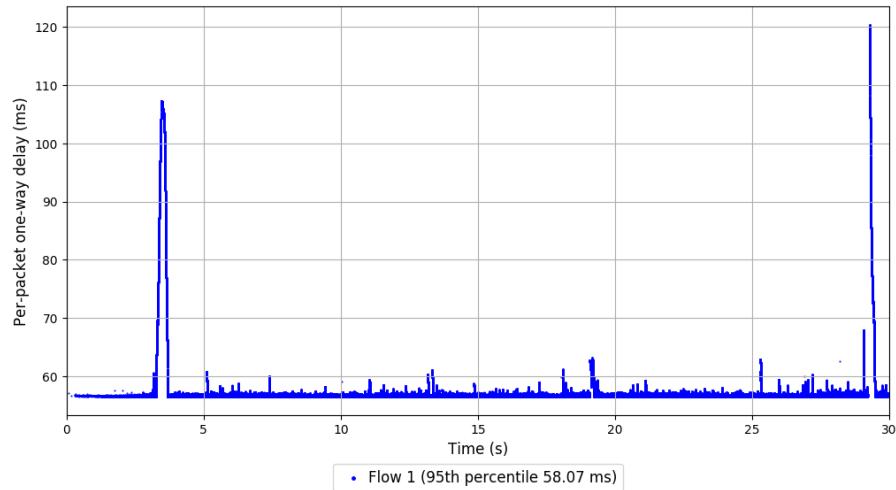
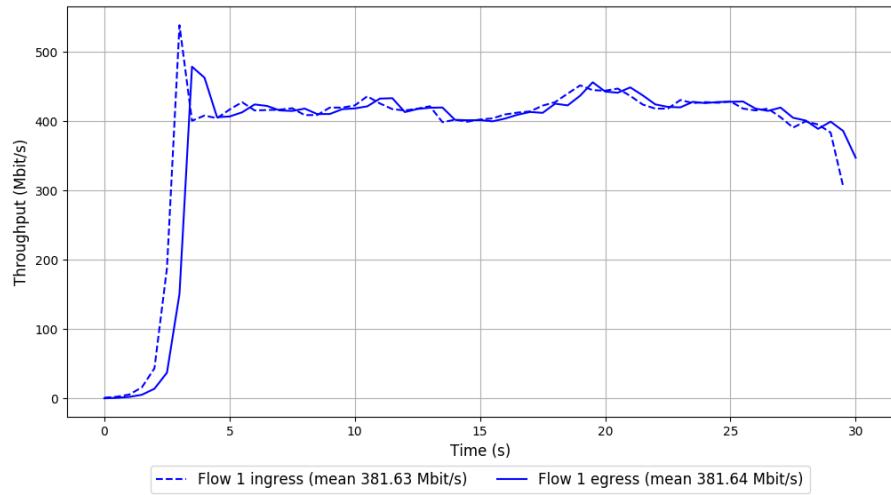


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-01-18 05:22:20
End at: 2019-01-18 05:22:50
Local clock offset: 0.292 ms
Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2019-01-18 09:04:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 381.64 Mbit/s
95th percentile per-packet one-way delay: 58.072 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 381.64 Mbit/s
95th percentile per-packet one-way delay: 58.072 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Vivace — Data Link

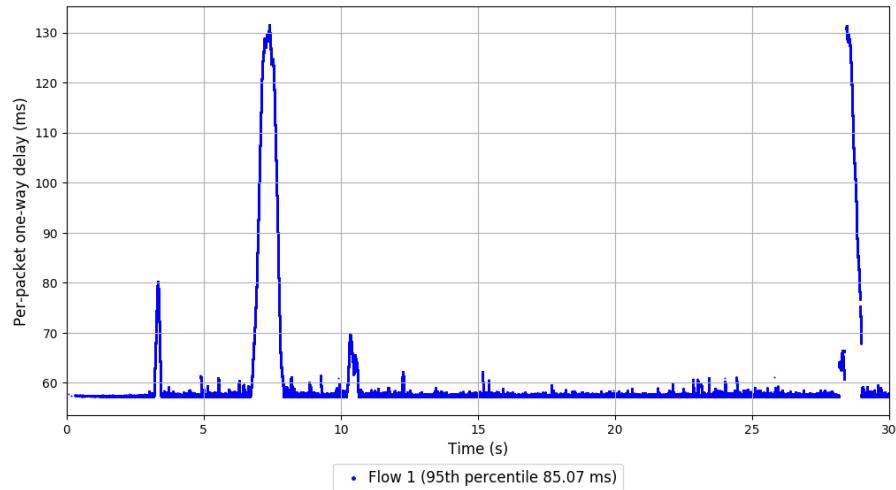
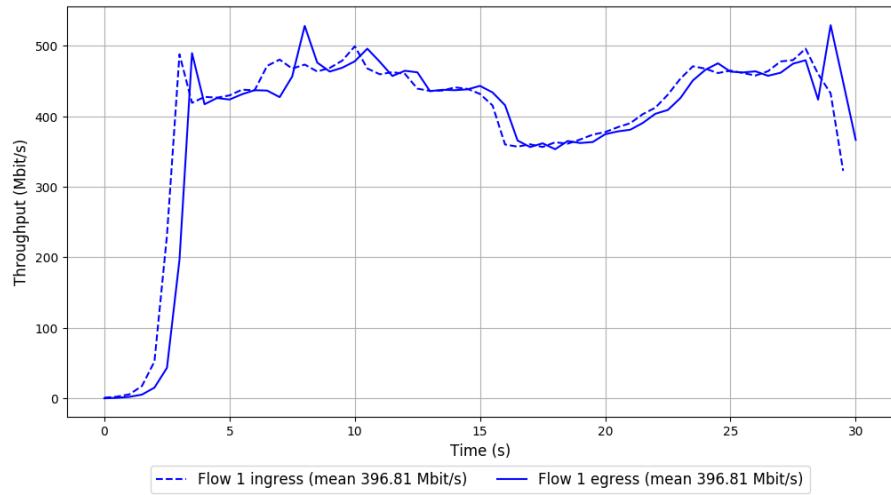


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-01-18 05:54:46
End at: 2019-01-18 05:55:16
Local clock offset: -0.375 ms
Remote clock offset: 0.177 ms

# Below is generated by plot.py at 2019-01-18 09:05:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 396.81 Mbit/s
95th percentile per-packet one-way delay: 85.072 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 396.81 Mbit/s
95th percentile per-packet one-way delay: 85.072 ms
Loss rate: 0.00%
```

Run 4: Report of PCC-Vivace — Data Link

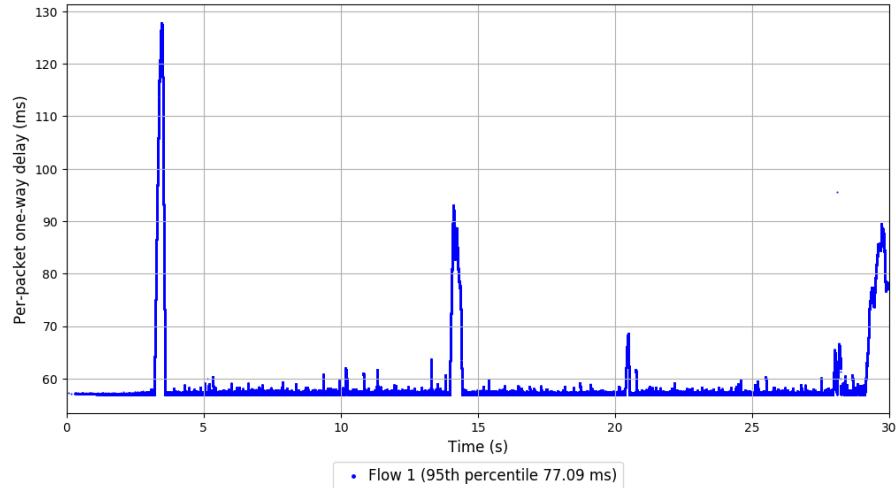
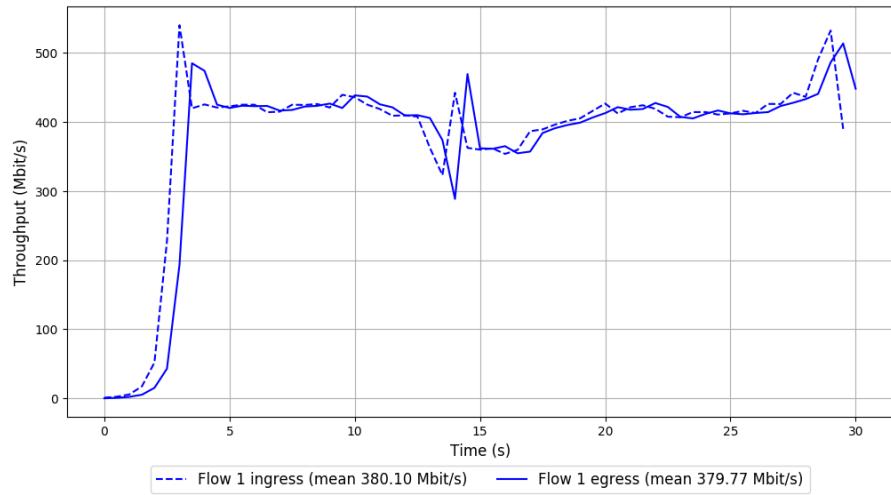


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-01-18 06:28:05
End at: 2019-01-18 06:28:35
Local clock offset: 0.24 ms
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2019-01-18 09:05:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 379.77 Mbit/s
95th percentile per-packet one-way delay: 77.095 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 379.77 Mbit/s
95th percentile per-packet one-way delay: 77.095 ms
Loss rate: 0.09%
```

Run 5: Report of PCC-Vivace — Data Link

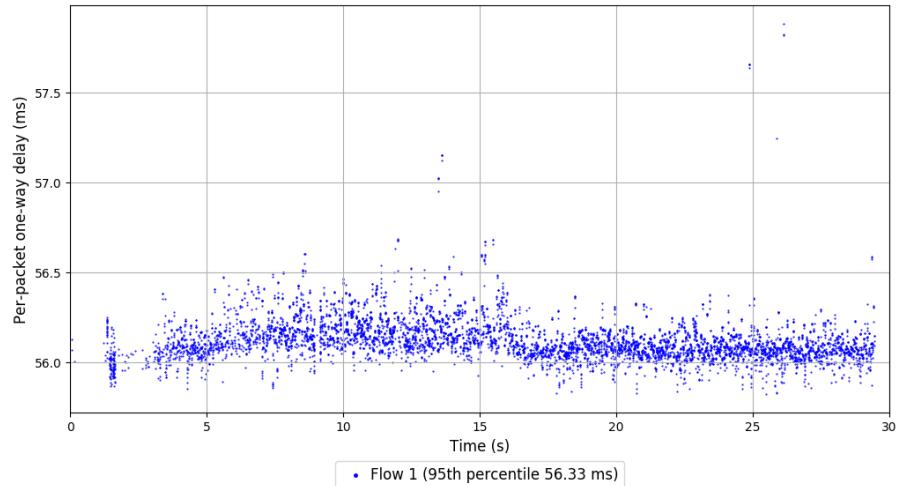
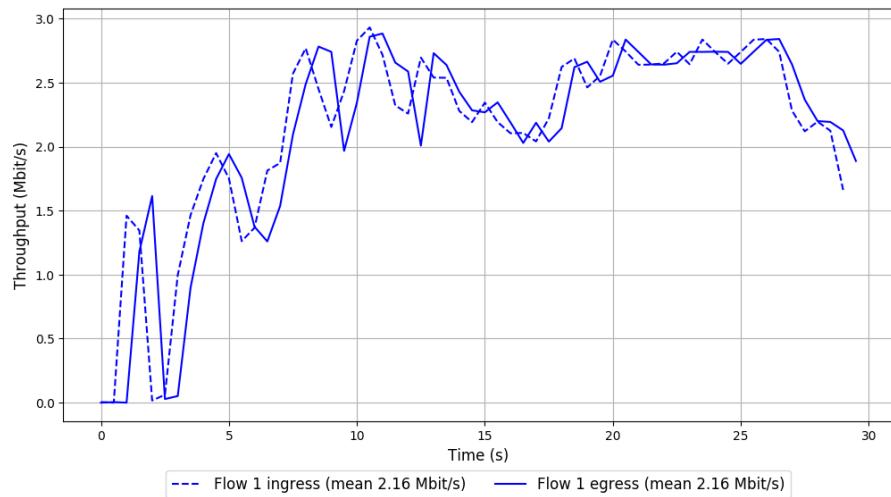


Run 1: Statistics of WebRTC media

```
Start at: 2019-01-18 04:20:30
End at: 2019-01-18 04:21:00
Local clock offset: -0.35 ms
Remote clock offset: -1.35 ms

# Below is generated by plot.py at 2019-01-18 09:05:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 56.325 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 56.325 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

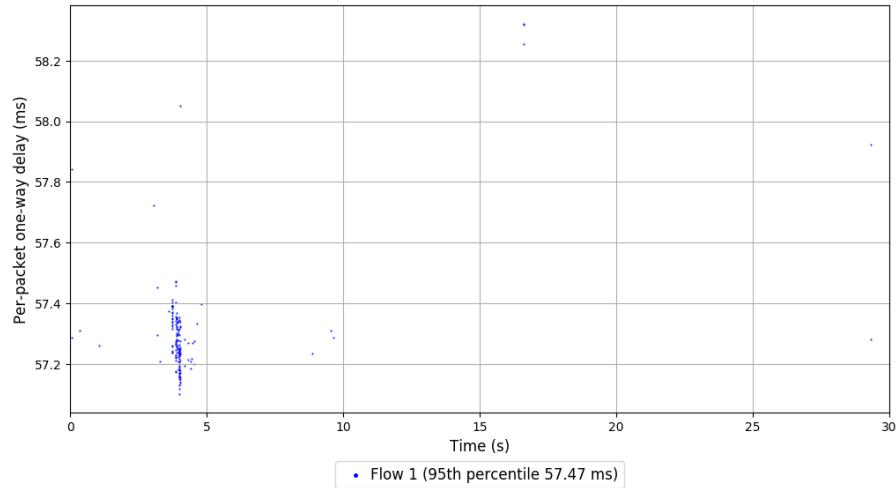
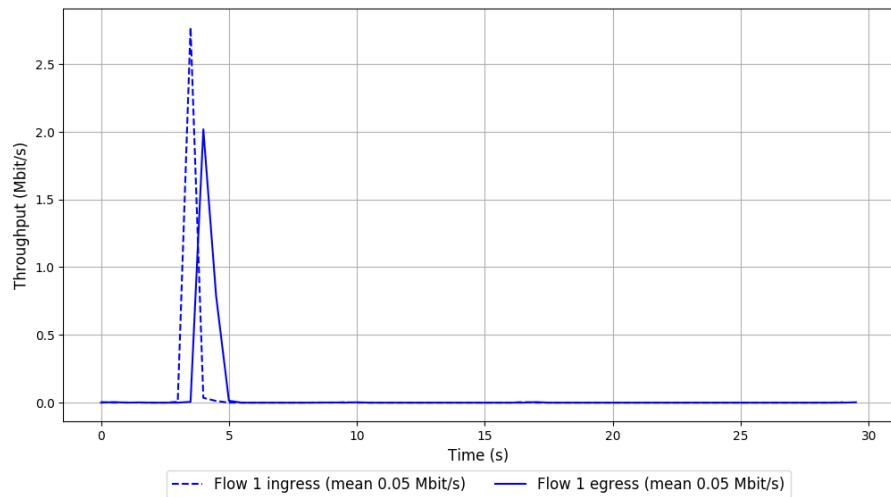


Run 2: Statistics of WebRTC media

```
Start at: 2019-01-18 04:52:01
End at: 2019-01-18 04:52:31
Local clock offset: -0.07 ms
Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2019-01-18 09:05:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 57.469 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 57.469 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

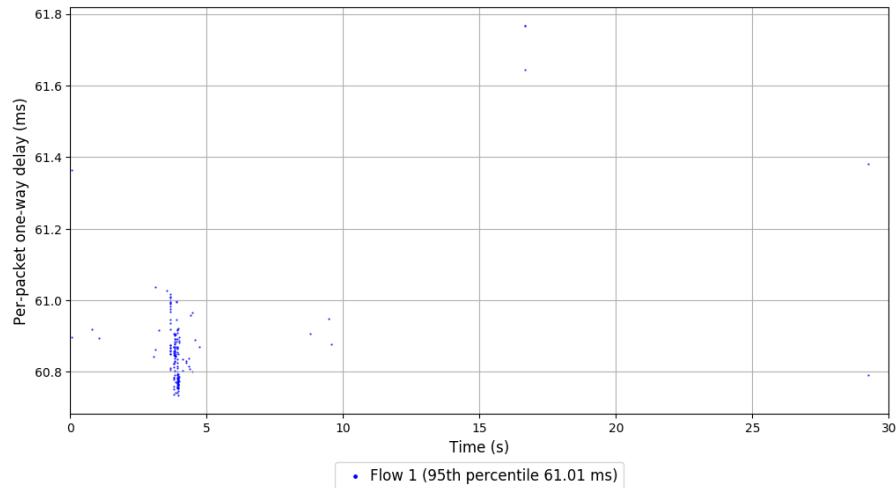
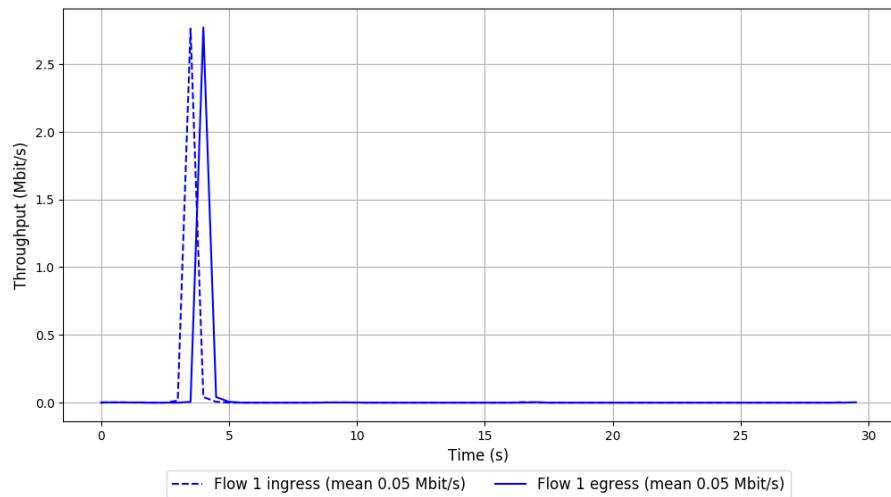


```
Run 3: Statistics of WebRTC media

Start at: 2019-01-18 05:23:56
End at: 2019-01-18 05:24:26
Local clock offset: -0.381 ms
Remote clock offset: 0.013 ms

# Below is generated by plot.py at 2019-01-18 09:05:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 61.011 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 61.011 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

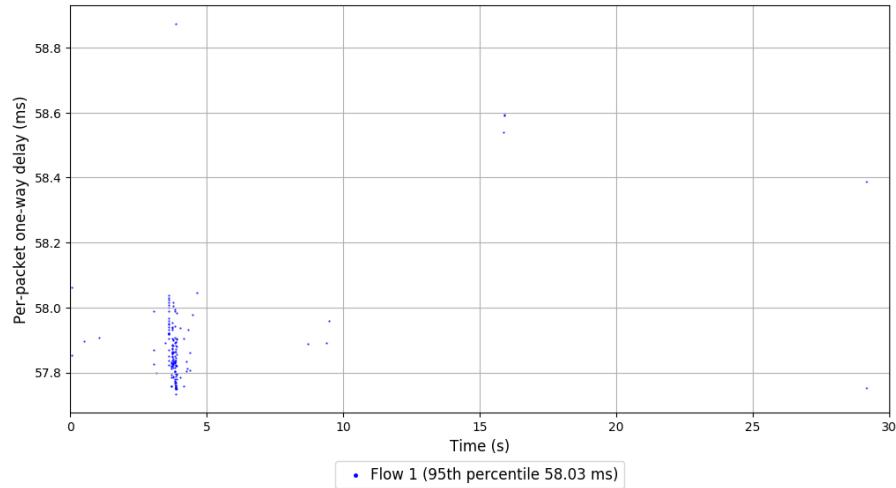
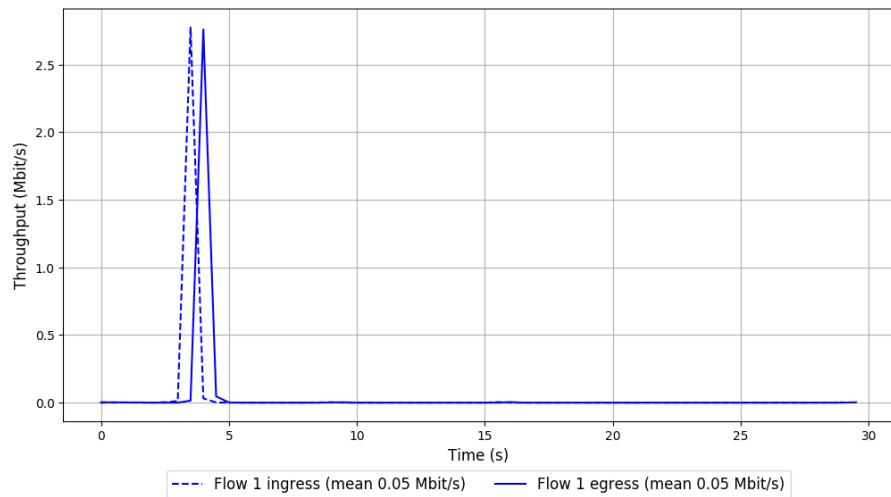


Run 4: Statistics of WebRTC media

```
Start at: 2019-01-18 05:56:27
End at: 2019-01-18 05:56:57
Local clock offset: -0.235 ms
Remote clock offset: 0.534 ms

# Below is generated by plot.py at 2019-01-18 09:05:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 58.030 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 58.030 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-01-18 06:29:38
End at: 2019-01-18 06:30:08
Local clock offset: -0.128 ms
Remote clock offset: -0.806 ms

# Below is generated by plot.py at 2019-01-18 09:05:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 60.059 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 60.059 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

