

Pantheon Report

Generated at 2019-01-25 05:06:41 (UTC).
Data path: GCE Iowa 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:

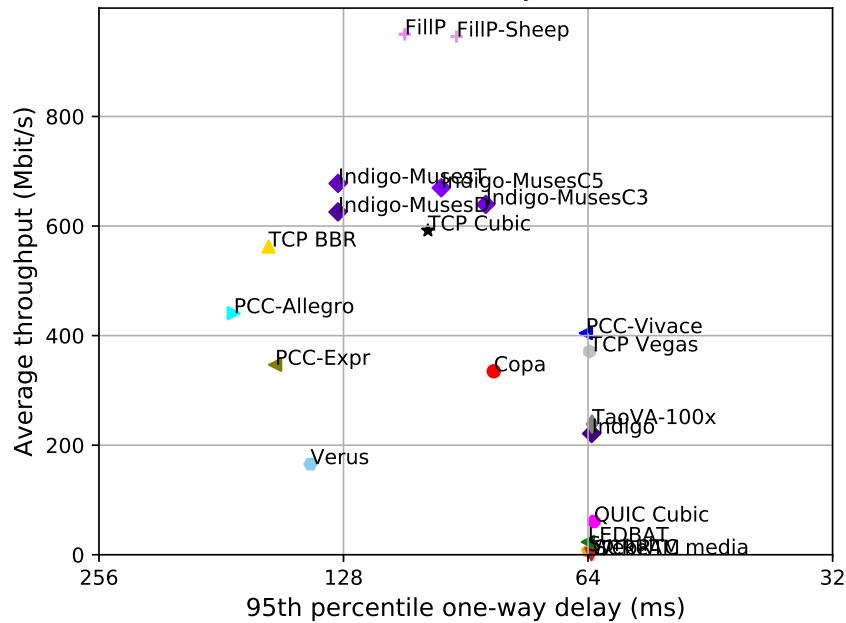
```
Linux 4.15.0-1026-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

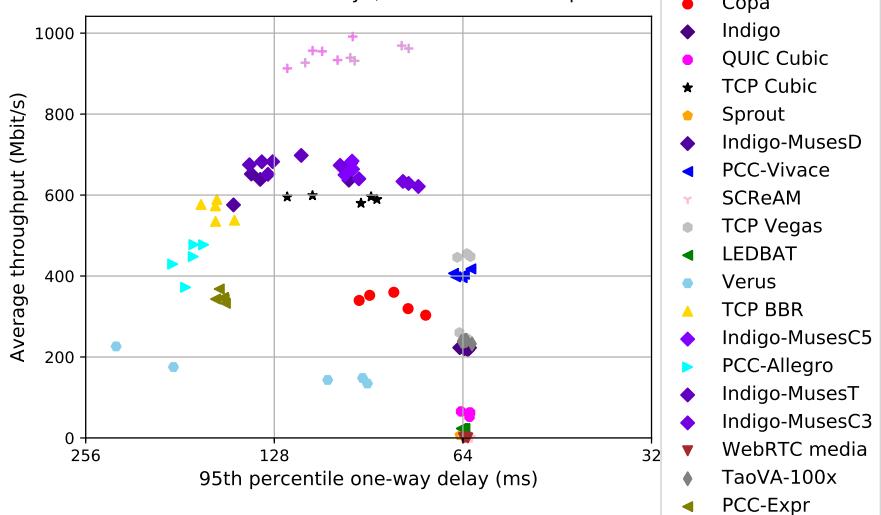
```
branch: muses @ 0b8e9a949603c3842368430acf469eec3b941f9f
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ d9c5ea33091330aca25ecd105ab2db6d34d5c40d
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 Iowa to GCE Tokyo, 5 runs of 30s each per scheme
(mean of all runs by scheme)



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



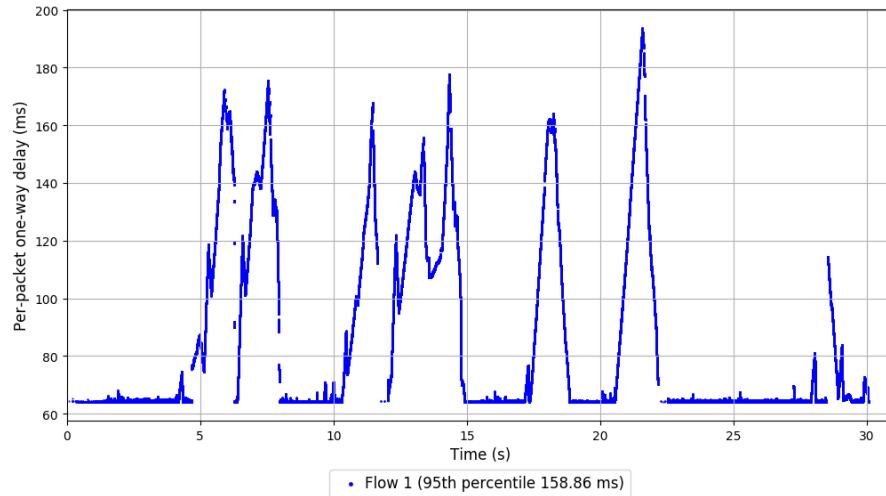
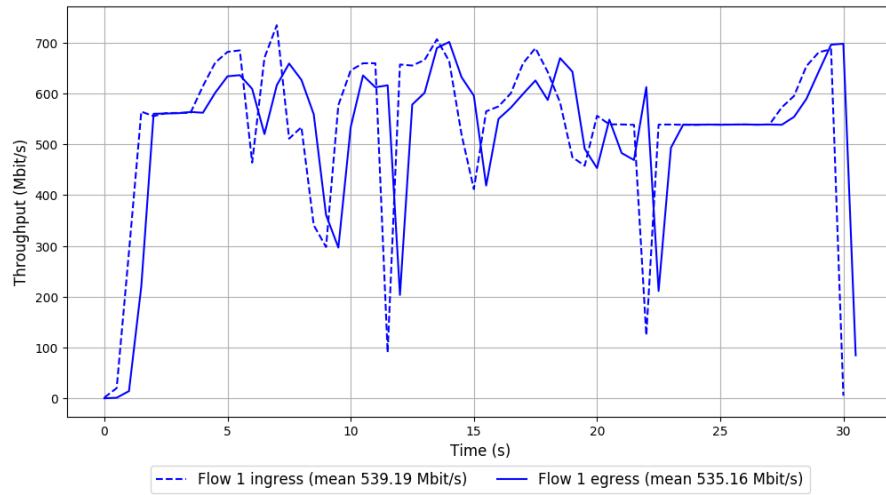
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	562.56	158.31	1.29
Copa	5	334.92	83.61	0.00
TCP Cubic	5	591.85	100.77	0.09
FillP	5	949.94	107.60	0.36
FillP-Sheep	5	945.82	92.92	0.29
Indigo	5	221.27	63.35	0.00
Indigo-MusesC3	5	639.43	85.52	0.03
Indigo-MusesC5	5	669.83	97.03	0.04
Indigo-MusesD	4	625.80	130.02	0.38
Indigo-MusesT	5	677.80	130.00	0.18
LEDBAT	5	23.35	64.05	0.00
PCC-Allegro	5	440.87	174.71	3.01
PCC-Expr	5	346.68	155.39	1.47
QUIC Cubic	4	60.63	62.95	0.00
SCReAM	5	0.22	62.93	0.00
Sprout	5	6.73	64.00	0.00
TaoVA-100x	5	238.57	63.28	0.00
TCP Vegas	5	371.20	63.73	0.00
Verus	5	165.42	140.59	2.70
PCC-Vivace	5	404.57	64.40	0.00
WebRTC media	4	0.94	63.39	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-01-25 00:43:22
End at: 2019-01-25 00:43:52
Local clock offset: -0.126 ms
Remote clock offset: 1.063 ms

# Below is generated by plot.py at 2019-01-25 03:23:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 535.16 Mbit/s
95th percentile per-packet one-way delay: 158.864 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 535.16 Mbit/s
95th percentile per-packet one-way delay: 158.864 ms
Loss rate: 0.75%
```

Run 1: Report of TCP BBR — Data Link

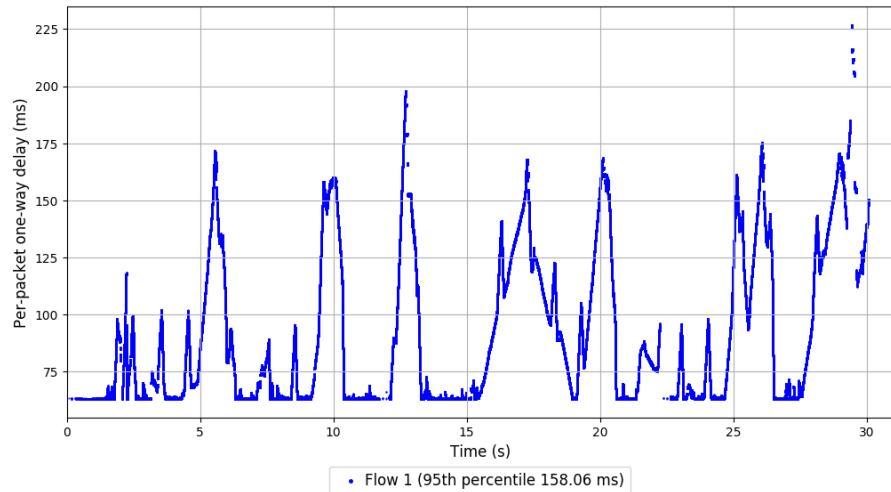
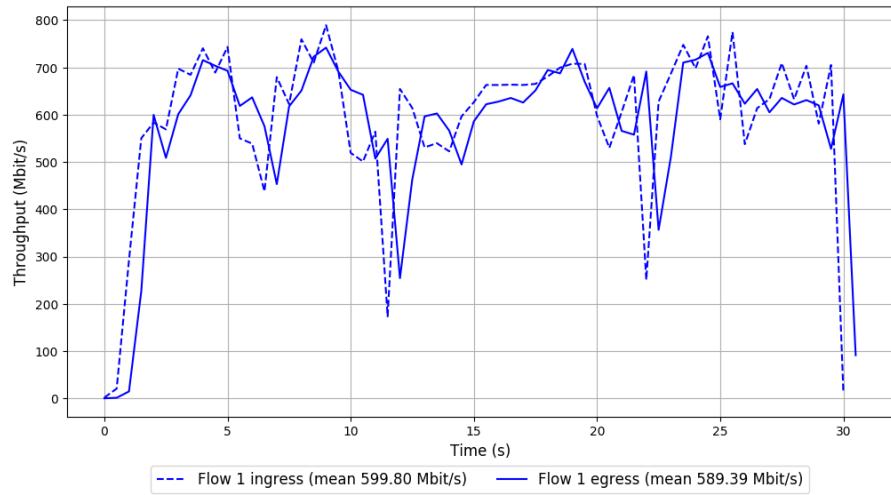


Run 2: Statistics of TCP BBR

```
Start at: 2019-01-25 01:14:42
End at: 2019-01-25 01:15:12
Local clock offset: -0.004 ms
Remote clock offset: -0.26 ms

# Below is generated by plot.py at 2019-01-25 03:23:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 589.39 Mbit/s
95th percentile per-packet one-way delay: 158.056 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 589.39 Mbit/s
95th percentile per-packet one-way delay: 158.056 ms
Loss rate: 1.74%
```

Run 2: Report of TCP BBR — Data Link

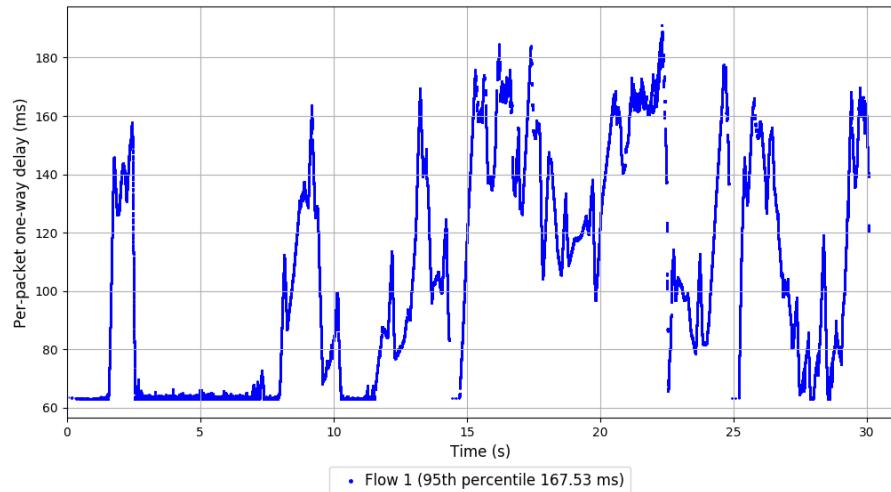
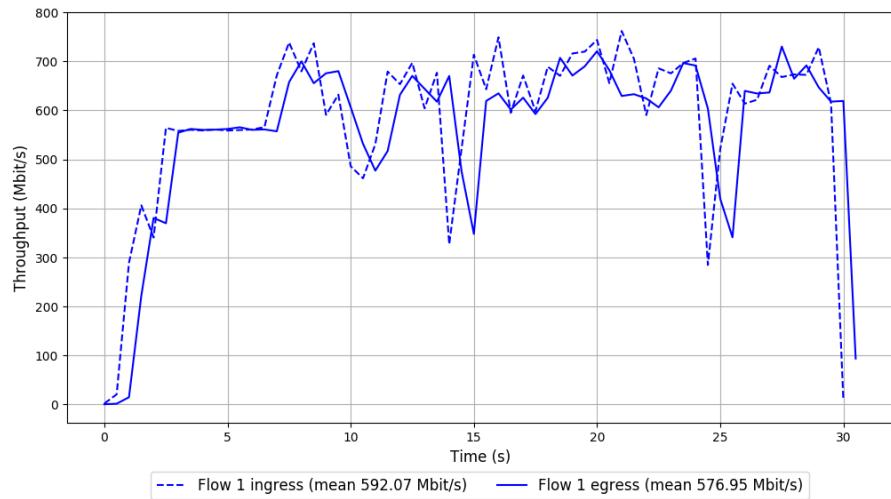


Run 3: Statistics of TCP BBR

```
Start at: 2019-01-25 01:46:15
End at: 2019-01-25 01:46:45
Local clock offset: -0.093 ms
Remote clock offset: -0.231 ms

# Below is generated by plot.py at 2019-01-25 03:23:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 576.95 Mbit/s
95th percentile per-packet one-way delay: 167.531 ms
Loss rate: 2.56%
-- Flow 1:
Average throughput: 576.95 Mbit/s
95th percentile per-packet one-way delay: 167.531 ms
Loss rate: 2.56%
```

Run 3: Report of TCP BBR — Data Link

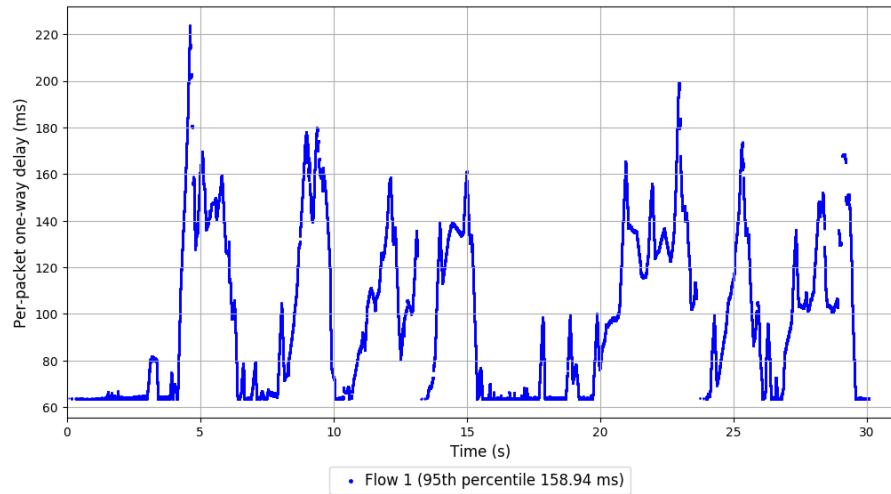
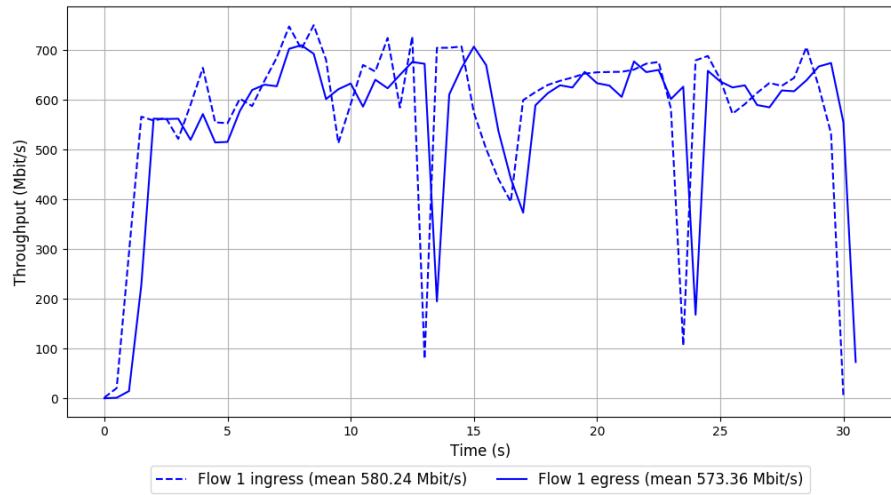


Run 4: Statistics of TCP BBR

```
Start at: 2019-01-25 02:17:37
End at: 2019-01-25 02:18:07
Local clock offset: -0.161 ms
Remote clock offset: 0.345 ms

# Below is generated by plot.py at 2019-01-25 03:23:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 573.36 Mbit/s
95th percentile per-packet one-way delay: 158.936 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 573.36 Mbit/s
95th percentile per-packet one-way delay: 158.936 ms
Loss rate: 1.19%
```

Run 4: Report of TCP BBR — Data Link

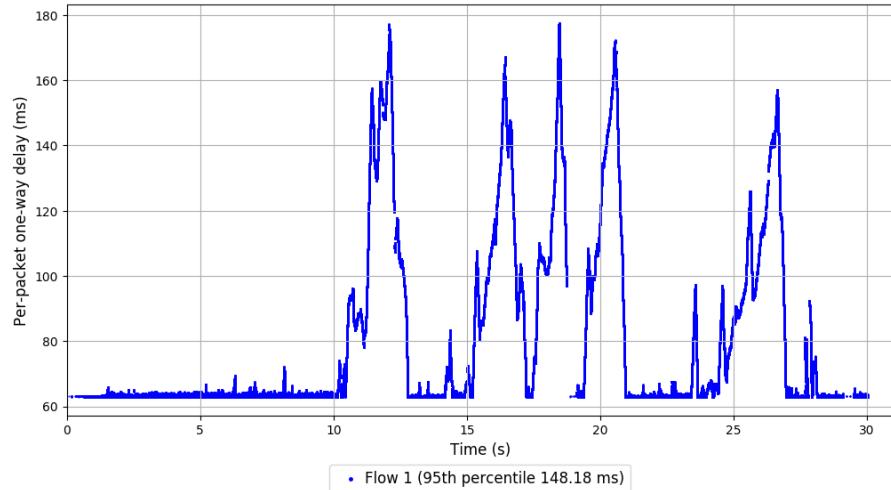
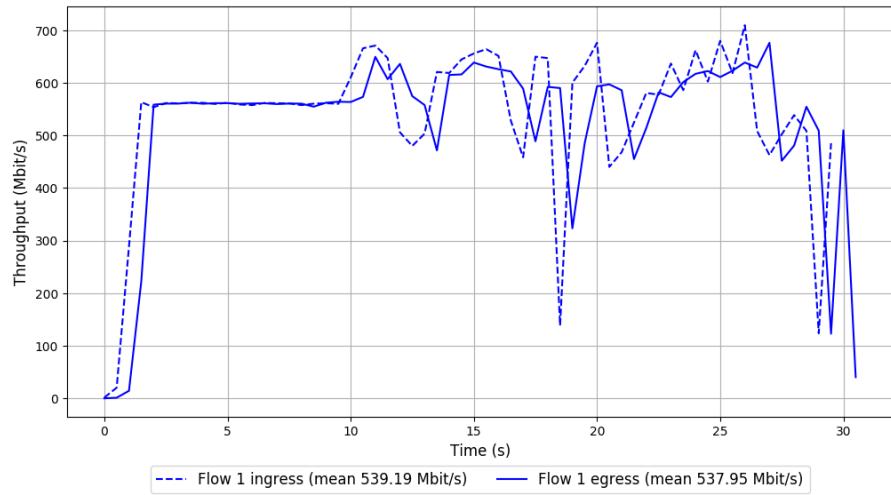


Run 5: Statistics of TCP BBR

```
Start at: 2019-01-25 02:49:04
End at: 2019-01-25 02:49:34
Local clock offset: -0.065 ms
Remote clock offset: -0.27 ms

# Below is generated by plot.py at 2019-01-25 03:23:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 537.95 Mbit/s
95th percentile per-packet one-way delay: 148.184 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 537.95 Mbit/s
95th percentile per-packet one-way delay: 148.184 ms
Loss rate: 0.23%
```

Run 5: Report of TCP BBR — Data Link

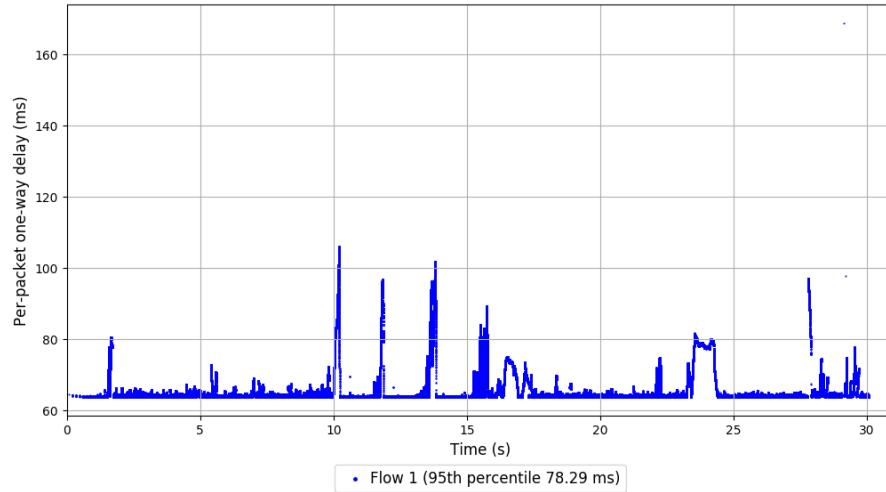
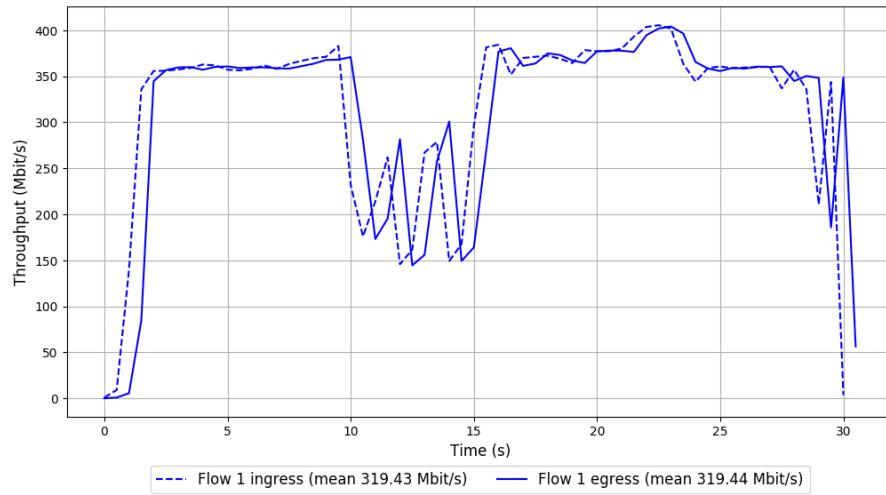


Run 1: Statistics of Copa

```
Start at: 2019-01-25 00:28:15
End at: 2019-01-25 00:28:45
Local clock offset: -0.113 ms
Remote clock offset: 0.702 ms

# Below is generated by plot.py at 2019-01-25 03:23:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 319.44 Mbit/s
95th percentile per-packet one-way delay: 78.286 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 319.44 Mbit/s
95th percentile per-packet one-way delay: 78.286 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link

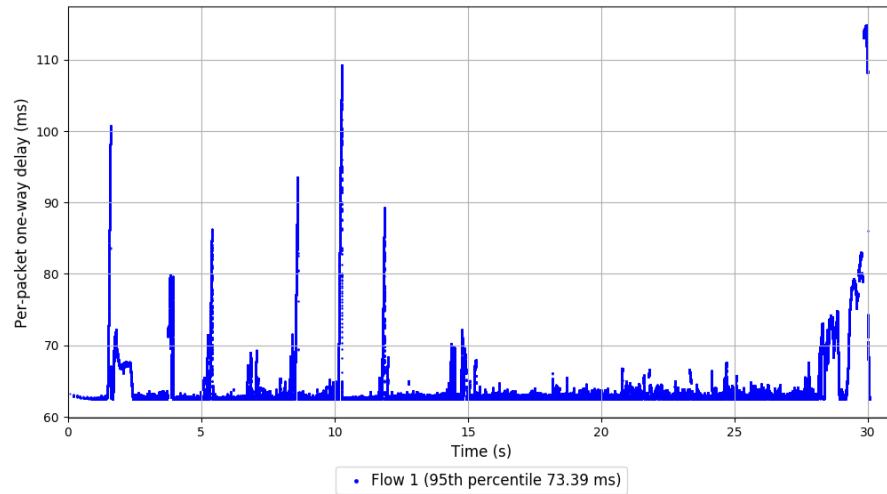
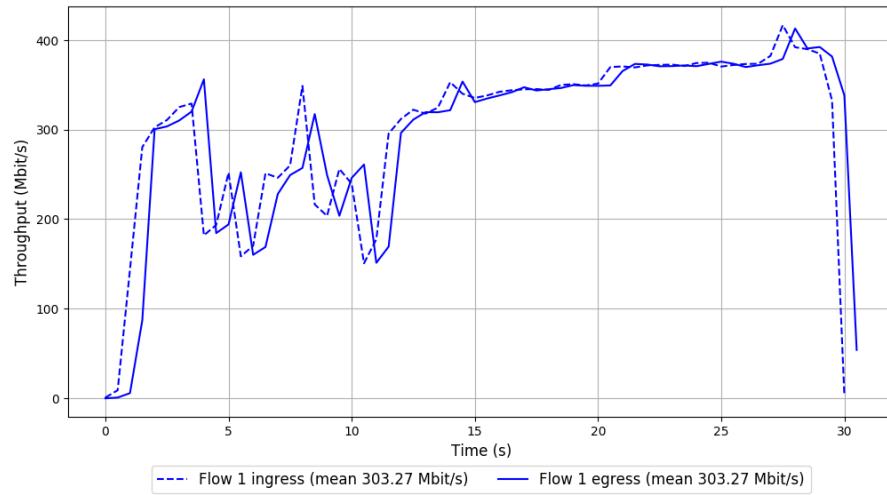


Run 2: Statistics of Copa

```
Start at: 2019-01-25 00:59:45
End at: 2019-01-25 01:00:15
Local clock offset: 0.012 ms
Remote clock offset: -0.562 ms

# Below is generated by plot.py at 2019-01-25 03:23:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 303.27 Mbit/s
95th percentile per-packet one-way delay: 73.385 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 303.27 Mbit/s
95th percentile per-packet one-way delay: 73.385 ms
Loss rate: 0.00%
```

Run 2: Report of Copa — Data Link

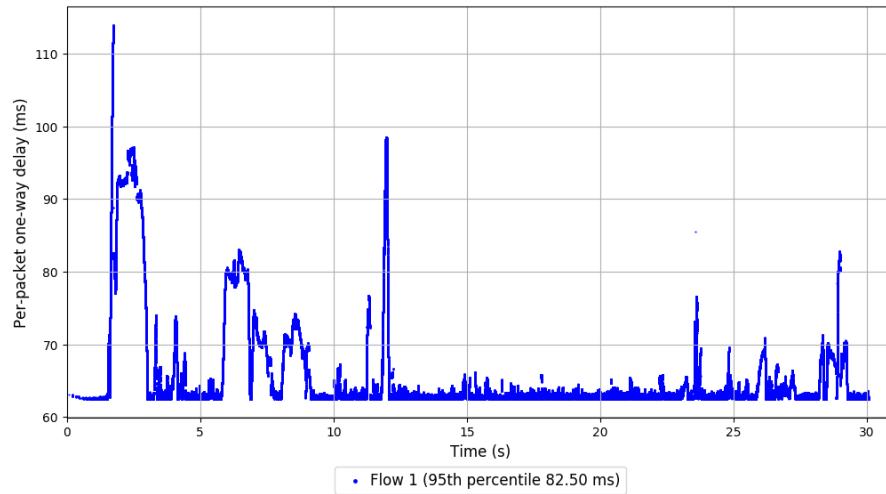
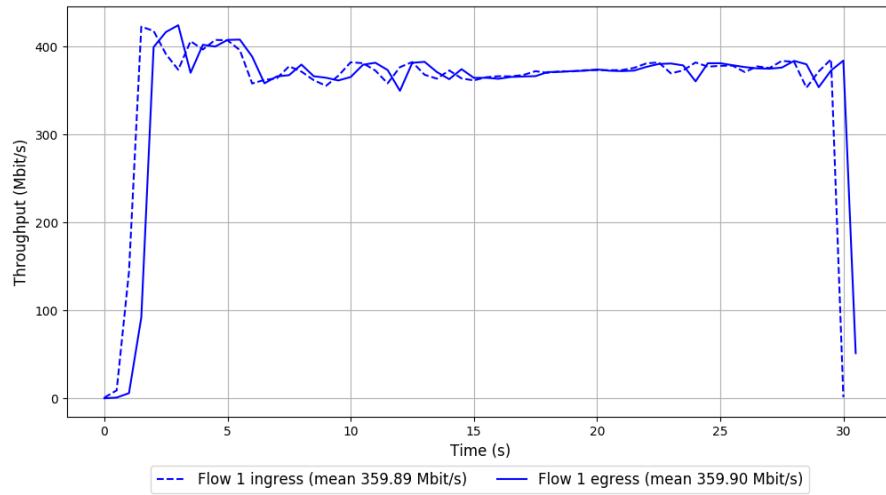


Run 3: Statistics of Copa

```
Start at: 2019-01-25 01:31:07
End at: 2019-01-25 01:31:37
Local clock offset: 0.044 ms
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2019-01-25 03:24:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 359.90 Mbit/s
95th percentile per-packet one-way delay: 82.505 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 359.90 Mbit/s
95th percentile per-packet one-way delay: 82.505 ms
Loss rate: 0.00%
```

Run 3: Report of Copa — Data Link

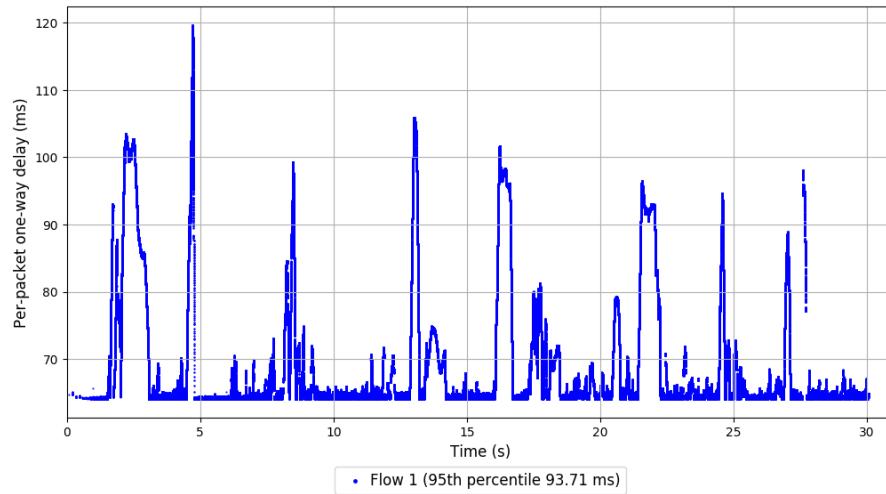
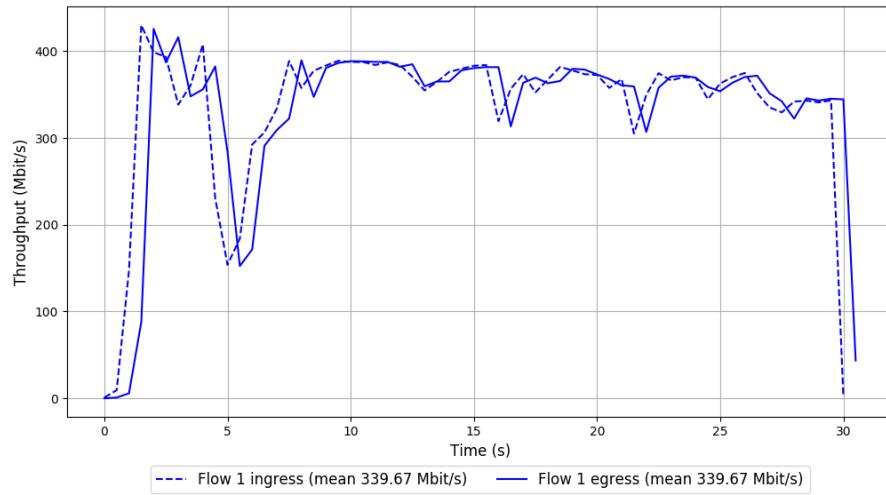


Run 4: Statistics of Copa

```
Start at: 2019-01-25 02:02:34
End at: 2019-01-25 02:03:04
Local clock offset: -0.017 ms
Remote clock offset: 1.064 ms

# Below is generated by plot.py at 2019-01-25 03:34:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 339.67 Mbit/s
95th percentile per-packet one-way delay: 93.708 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 339.67 Mbit/s
95th percentile per-packet one-way delay: 93.708 ms
Loss rate: 0.00%
```

Run 4: Report of Copa — Data Link

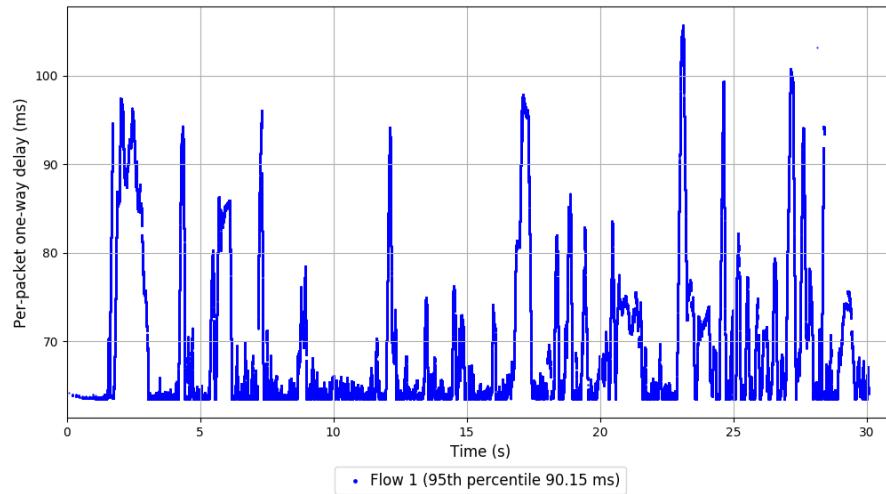
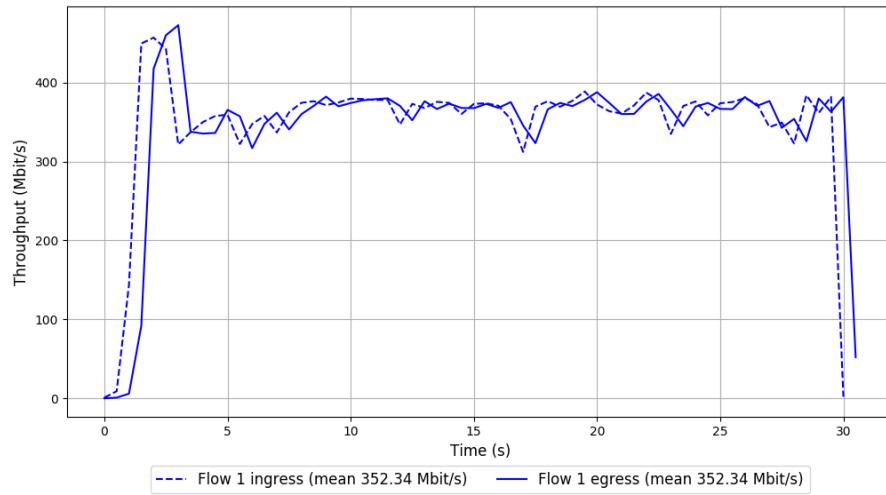


Run 5: Statistics of Copa

```
Start at: 2019-01-25 02:33:48
End at: 2019-01-25 02:34:18
Local clock offset: -0.132 ms
Remote clock offset: 0.489 ms

# Below is generated by plot.py at 2019-01-25 03:34:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 352.34 Mbit/s
95th percentile per-packet one-way delay: 90.150 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 352.34 Mbit/s
95th percentile per-packet one-way delay: 90.150 ms
Loss rate: 0.00%
```

Run 5: Report of Copa — Data Link

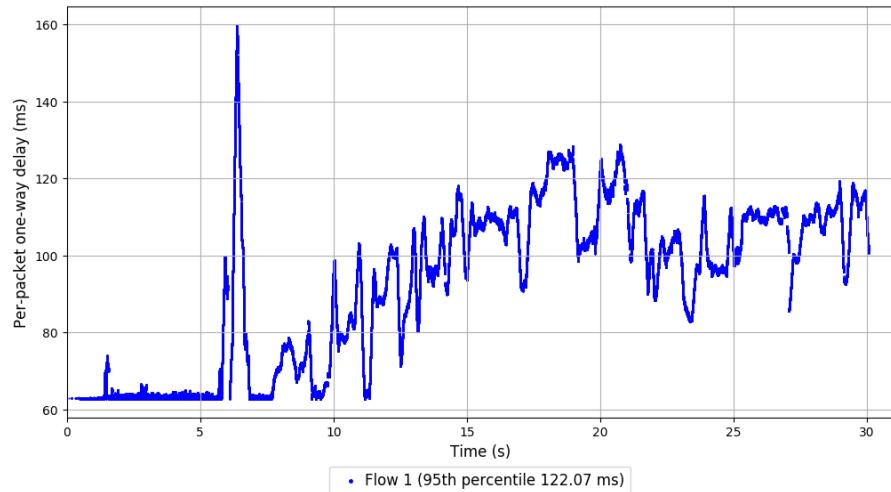
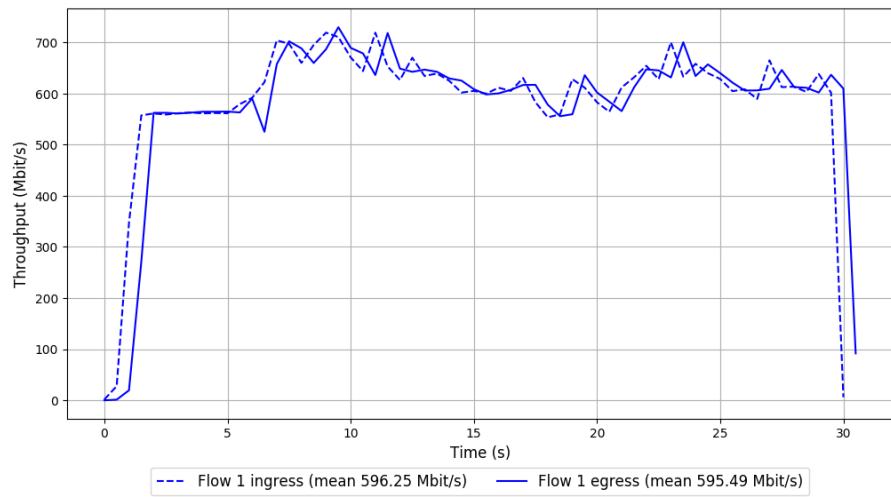


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-01-25 00:50:31
End at: 2019-01-25 00:51:01
Local clock offset: -0.12 ms
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2019-01-25 03:34:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 595.49 Mbit/s
95th percentile per-packet one-way delay: 122.066 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 595.49 Mbit/s
95th percentile per-packet one-way delay: 122.066 ms
Loss rate: 0.13%
```

Run 1: Report of TCP Cubic — Data Link

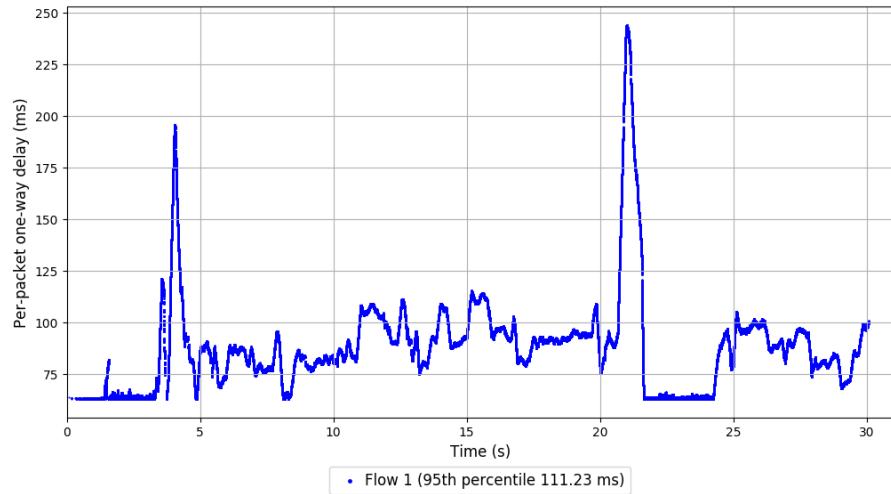
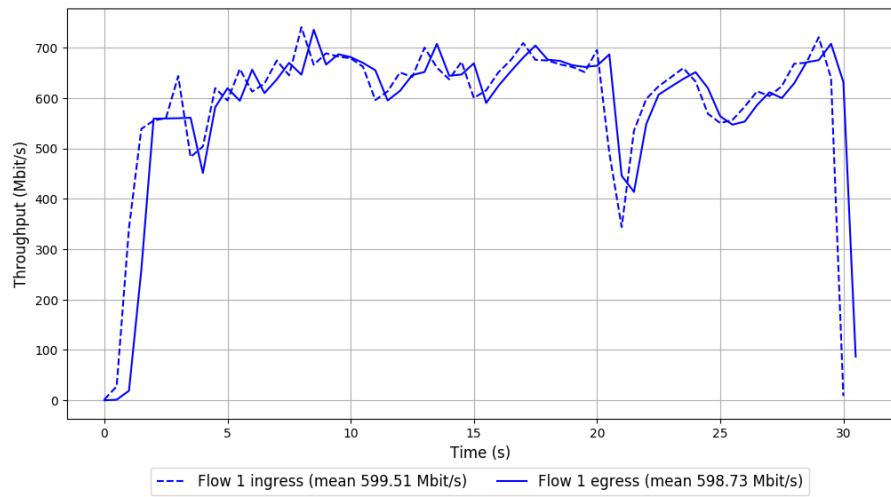


Run 2: Statistics of TCP Cubic

```
Start at: 2019-01-25 01:21:53
End at: 2019-01-25 01:22:23
Local clock offset: 0.021 ms
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2019-01-25 03:34:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 598.73 Mbit/s
95th percentile per-packet one-way delay: 111.233 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 598.73 Mbit/s
95th percentile per-packet one-way delay: 111.233 ms
Loss rate: 0.13%
```

Run 2: Report of TCP Cubic — Data Link

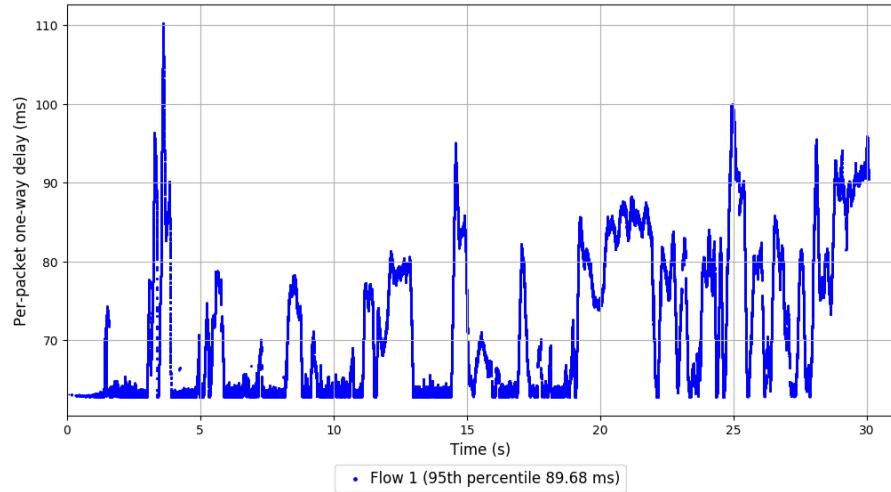
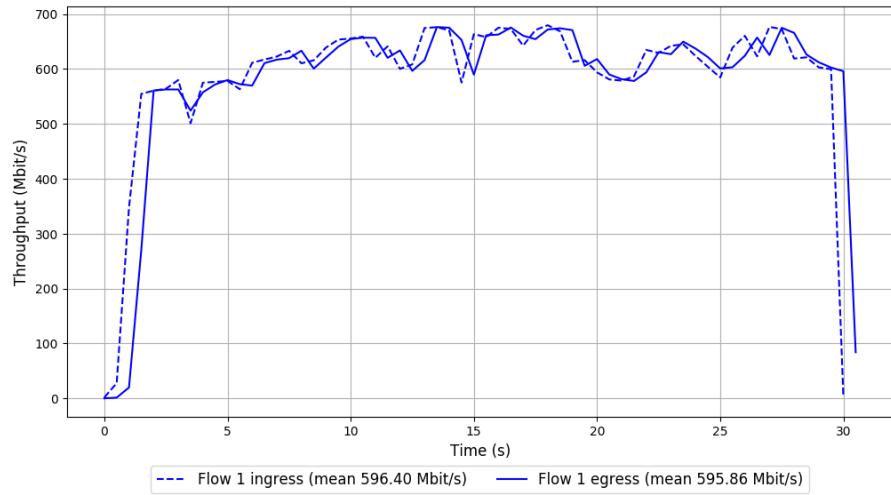


Run 3: Statistics of TCP Cubic

```
Start at: 2019-01-25 01:53:25
End at: 2019-01-25 01:53:55
Local clock offset: -0.015 ms
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2019-01-25 03:34:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 595.86 Mbit/s
95th percentile per-packet one-way delay: 89.684 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 595.86 Mbit/s
95th percentile per-packet one-way delay: 89.684 ms
Loss rate: 0.09%
```

Run 3: Report of TCP Cubic — Data Link

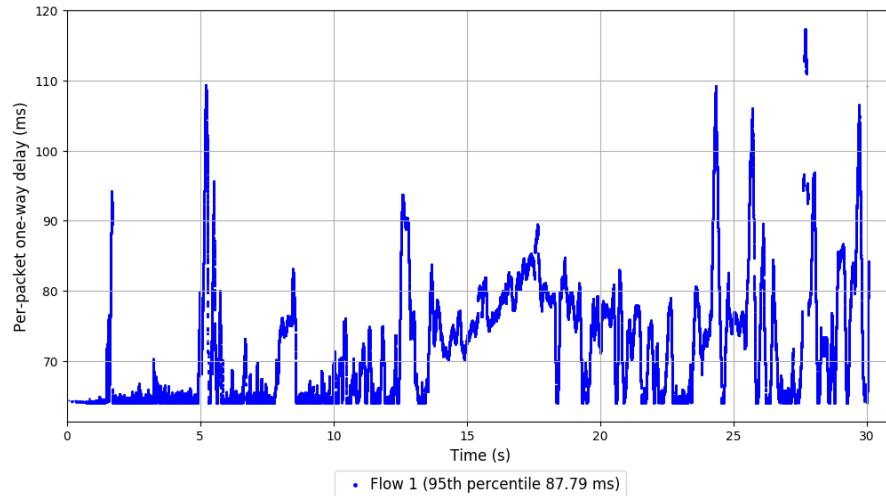
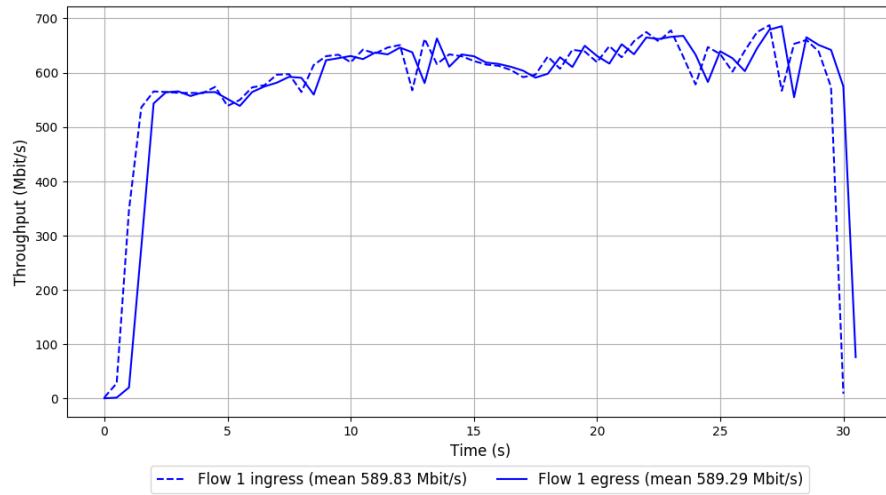


Run 4: Statistics of TCP Cubic

```
Start at: 2019-01-25 02:24:36
End at: 2019-01-25 02:25:06
Local clock offset: -0.117 ms
Remote clock offset: 1.202 ms

# Below is generated by plot.py at 2019-01-25 03:34:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 589.29 Mbit/s
95th percentile per-packet one-way delay: 87.791 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 589.29 Mbit/s
95th percentile per-packet one-way delay: 87.791 ms
Loss rate: 0.09%
```

Run 4: Report of TCP Cubic — Data Link

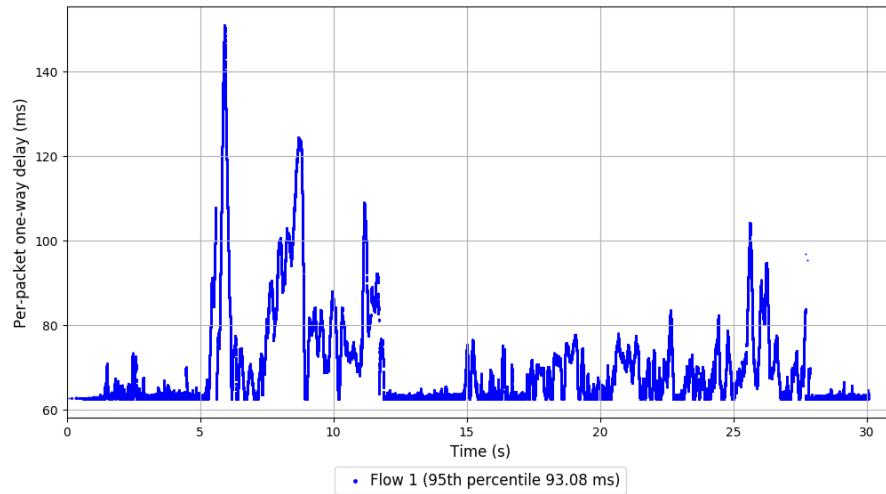
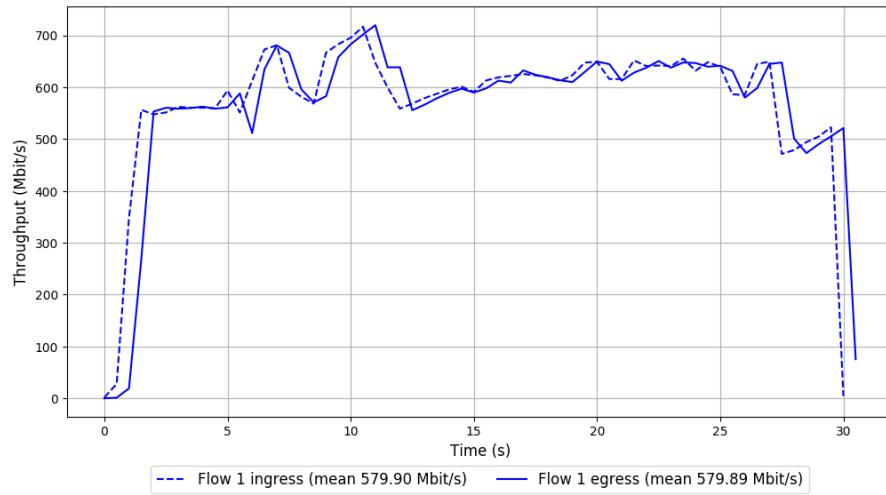


Run 5: Statistics of TCP Cubic

```
Start at: 2019-01-25 02:56:08
End at: 2019-01-25 02:56:38
Local clock offset: -0.024 ms
Remote clock offset: -0.697 ms

# Below is generated by plot.py at 2019-01-25 03:34:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 579.89 Mbit/s
95th percentile per-packet one-way delay: 93.078 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 579.89 Mbit/s
95th percentile per-packet one-way delay: 93.078 ms
Loss rate: 0.00%
```

Run 5: Report of TCP Cubic — Data Link

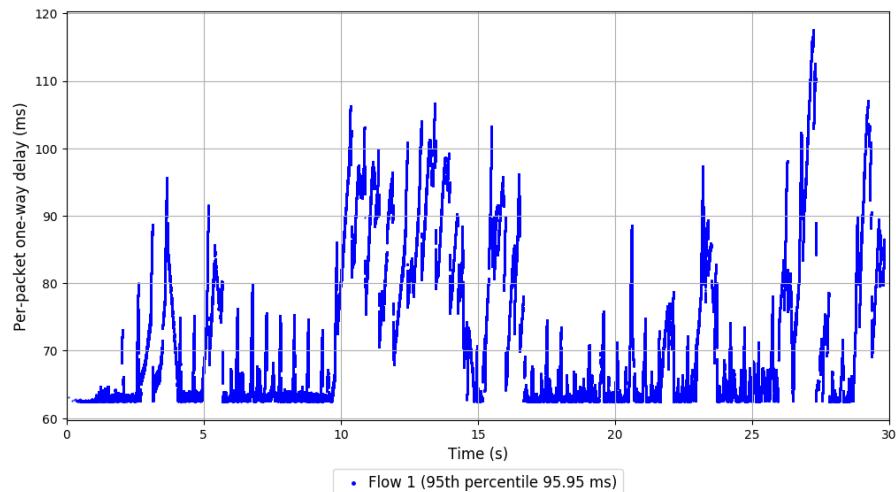
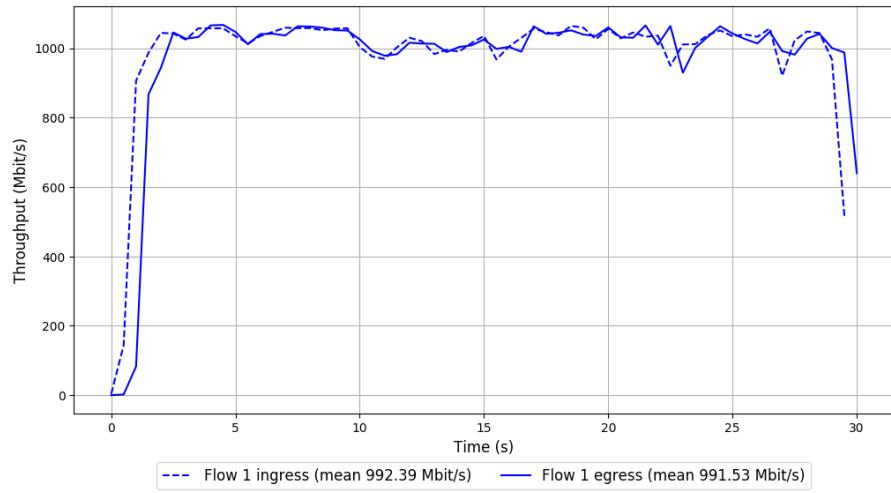


```
Run 1: Statistics of FillP

Start at: 2019-01-25 00:36:14
End at: 2019-01-25 00:36:44
Local clock offset: -0.148 ms
Remote clock offset: -0.71 ms

# Below is generated by plot.py at 2019-01-25 03:43:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 991.53 Mbit/s
95th percentile per-packet one-way delay: 95.947 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 991.53 Mbit/s
95th percentile per-packet one-way delay: 95.947 ms
Loss rate: 0.09%
```

Run 1: Report of FillP — Data Link

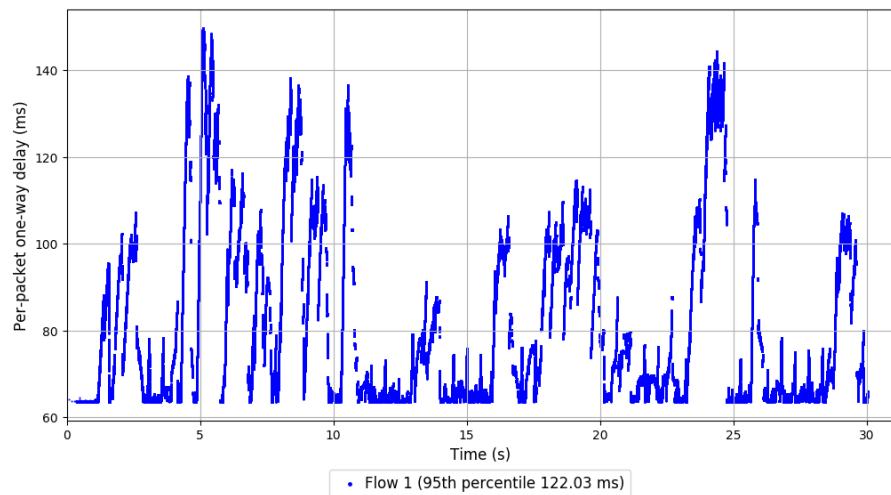
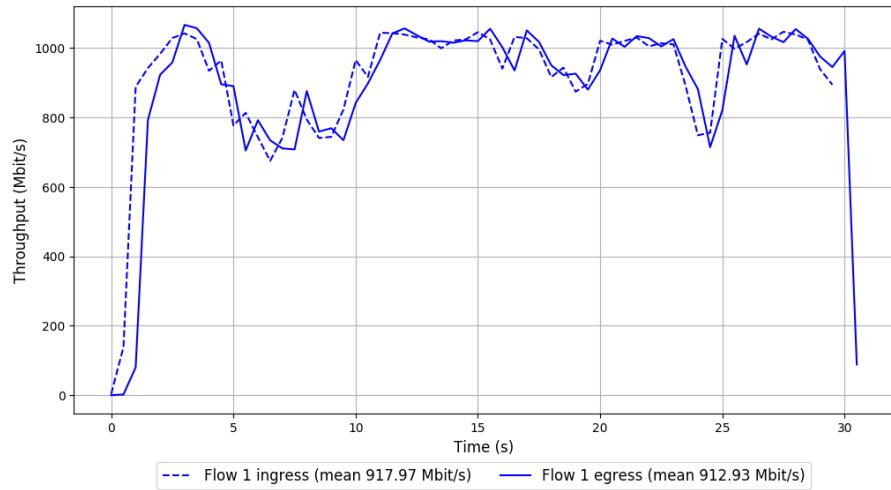


Run 2: Statistics of FillP

```
Start at: 2019-01-25 01:07:39
End at: 2019-01-25 01:08:09
Local clock offset: -0.051 ms
Remote clock offset: 0.627 ms

# Below is generated by plot.py at 2019-01-25 03:53:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 912.93 Mbit/s
95th percentile per-packet one-way delay: 122.025 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 912.93 Mbit/s
95th percentile per-packet one-way delay: 122.025 ms
Loss rate: 0.55%
```

Run 2: Report of FillP — Data Link

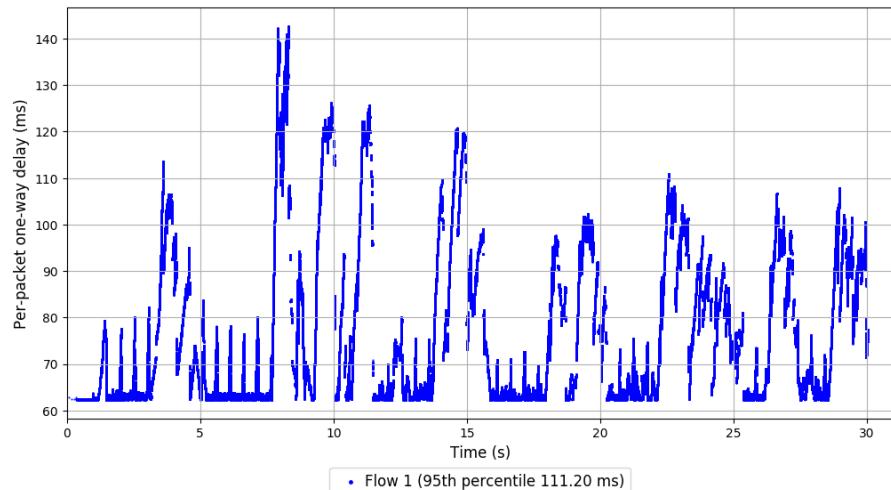
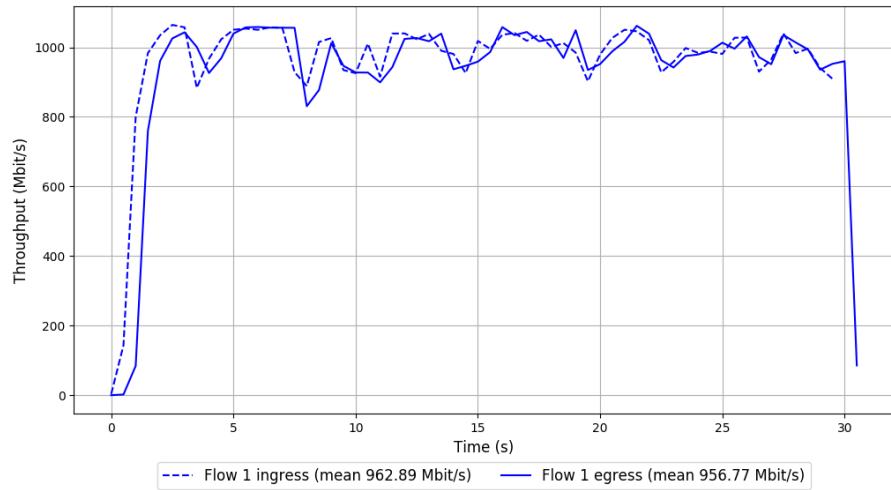


Run 3: Statistics of FillP

```
Start at: 2019-01-25 01:39:08
End at: 2019-01-25 01:39:38
Local clock offset: -0.033 ms
Remote clock offset: -0.503 ms

# Below is generated by plot.py at 2019-01-25 03:54:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 956.77 Mbit/s
95th percentile per-packet one-way delay: 111.202 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 956.77 Mbit/s
95th percentile per-packet one-way delay: 111.202 ms
Loss rate: 0.63%
```

Run 3: Report of FillP — Data Link

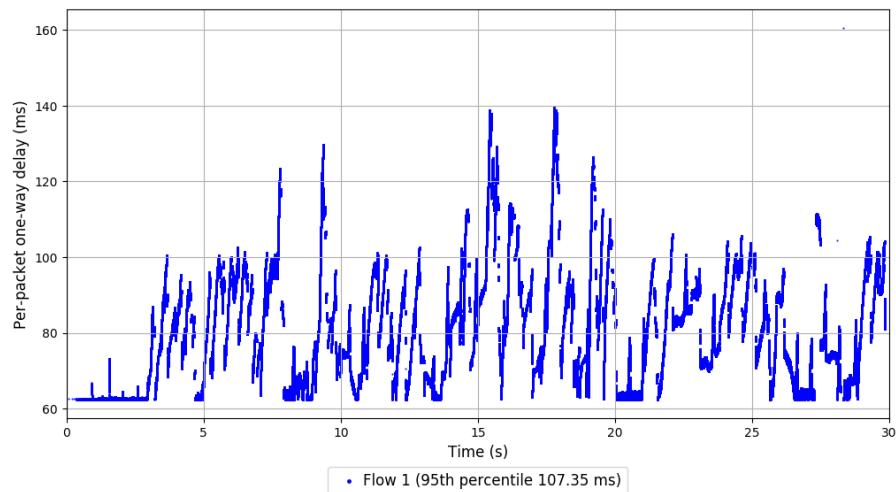
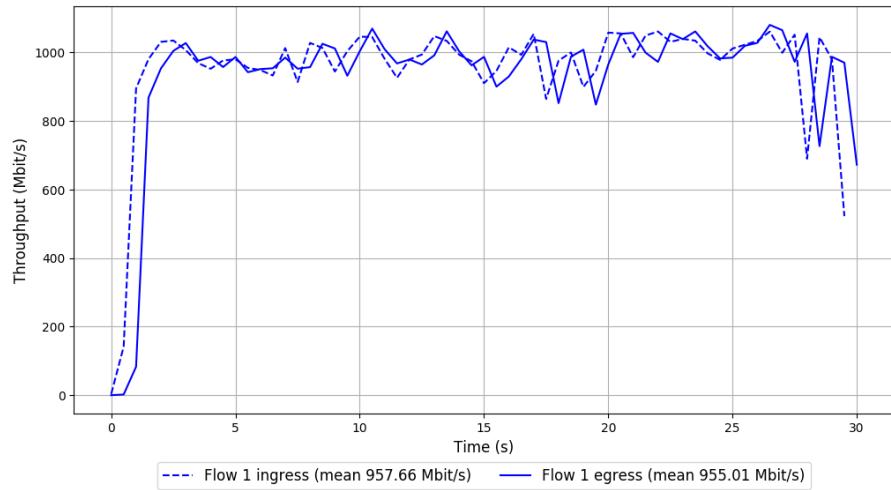


```
Run 4: Statistics of FillP
```

```
Start at: 2019-01-25 02:10:38
End at: 2019-01-25 02:11:08
Local clock offset: -0.214 ms
Remote clock offset: -0.737 ms

# Below is generated by plot.py at 2019-01-25 03:54:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 955.01 Mbit/s
95th percentile per-packet one-way delay: 107.353 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 955.01 Mbit/s
95th percentile per-packet one-way delay: 107.353 ms
Loss rate: 0.28%
```

Run 4: Report of FillP — Data Link

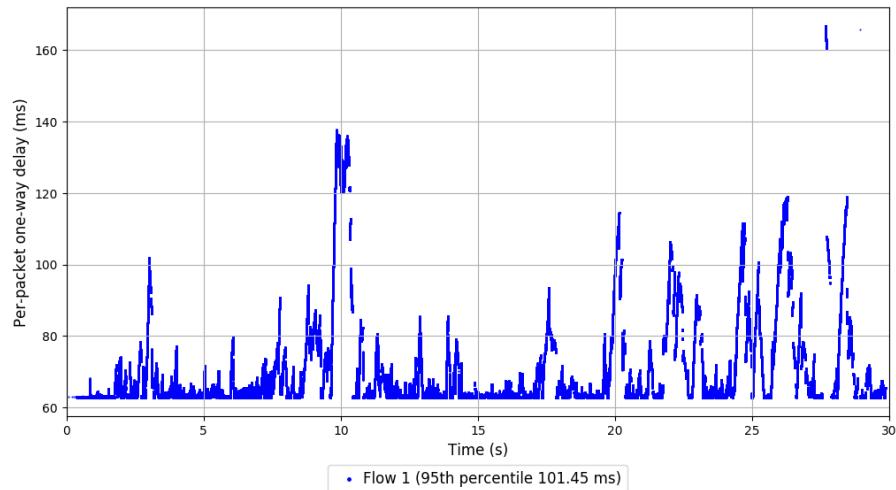
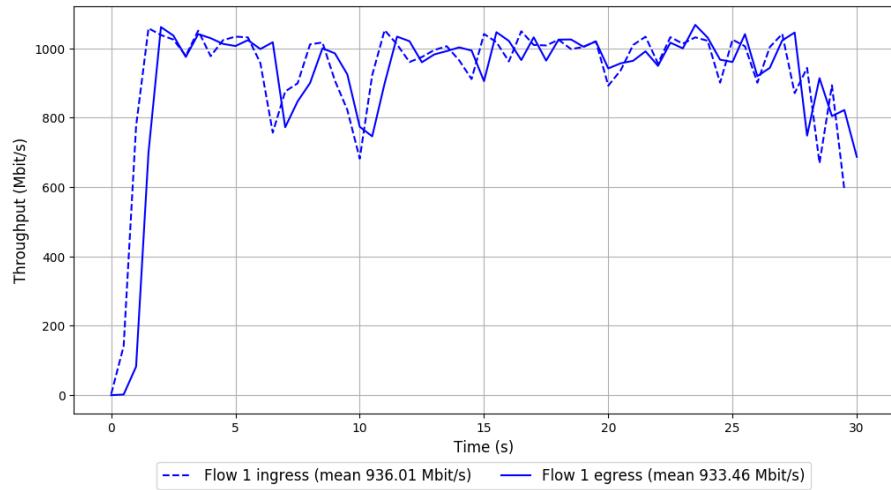


```
Run 5: Statistics of FillP
```

```
Start at: 2019-01-25 02:41:51
End at: 2019-01-25 02:42:21
Local clock offset: -0.152 ms
Remote clock offset: -0.26 ms

# Below is generated by plot.py at 2019-01-25 03:54:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 933.46 Mbit/s
95th percentile per-packet one-way delay: 101.450 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 933.46 Mbit/s
95th percentile per-packet one-way delay: 101.450 ms
Loss rate: 0.27%
```

Run 5: Report of FillP — Data Link

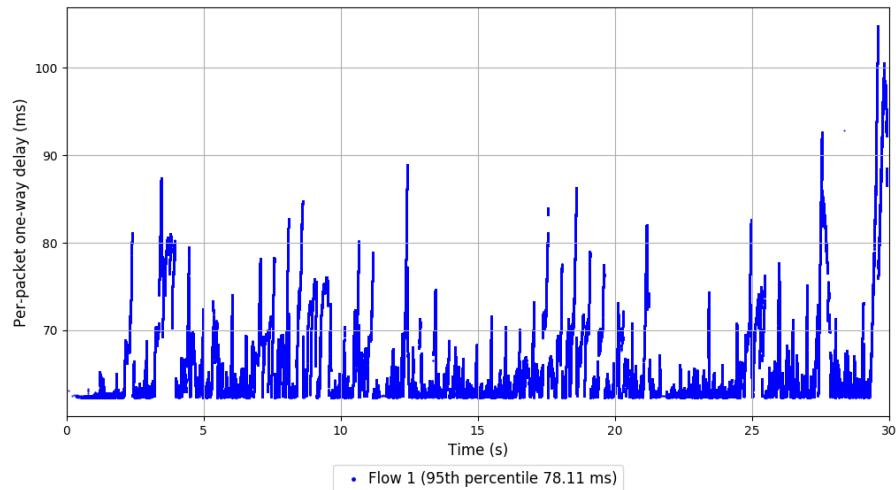
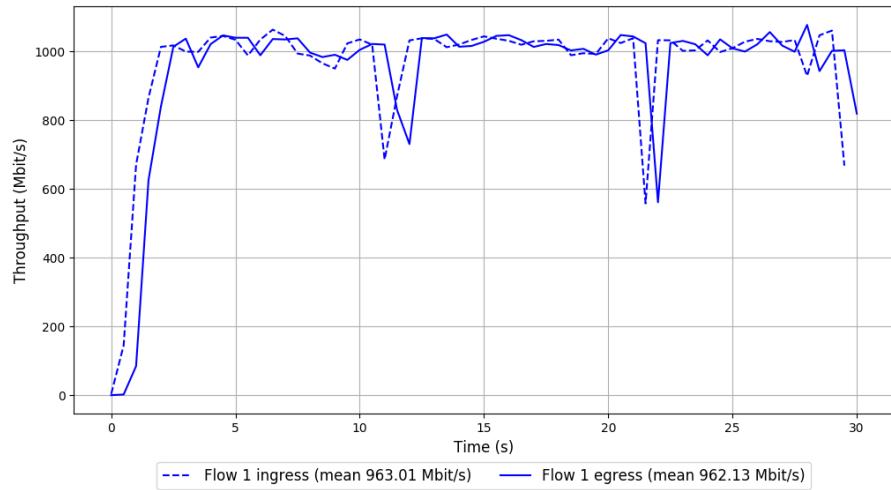


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-01-25 00:44:58
End at: 2019-01-25 00:45:28
Local clock offset: -0.122 ms
Remote clock offset: -0.476 ms

# Below is generated by plot.py at 2019-01-25 03:54:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 962.13 Mbit/s
95th percentile per-packet one-way delay: 78.113 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 962.13 Mbit/s
95th percentile per-packet one-way delay: 78.113 ms
Loss rate: 0.09%
```

Run 1: Report of FillP-Sheep — Data Link

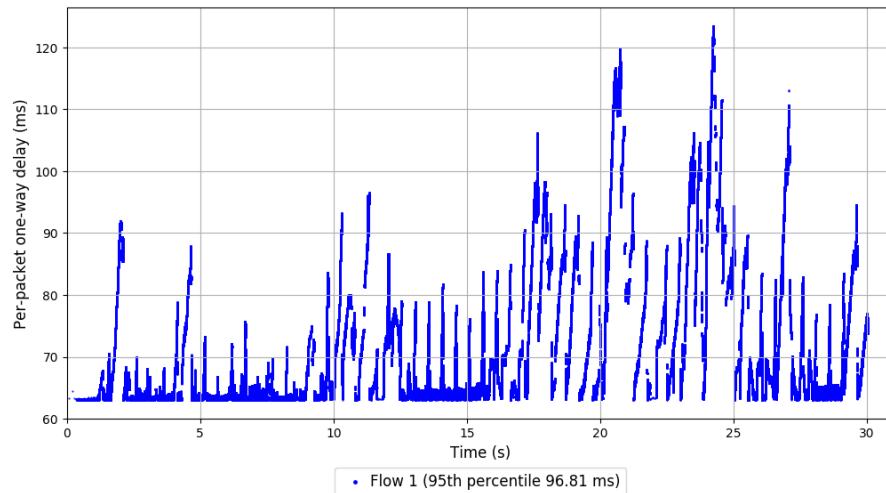
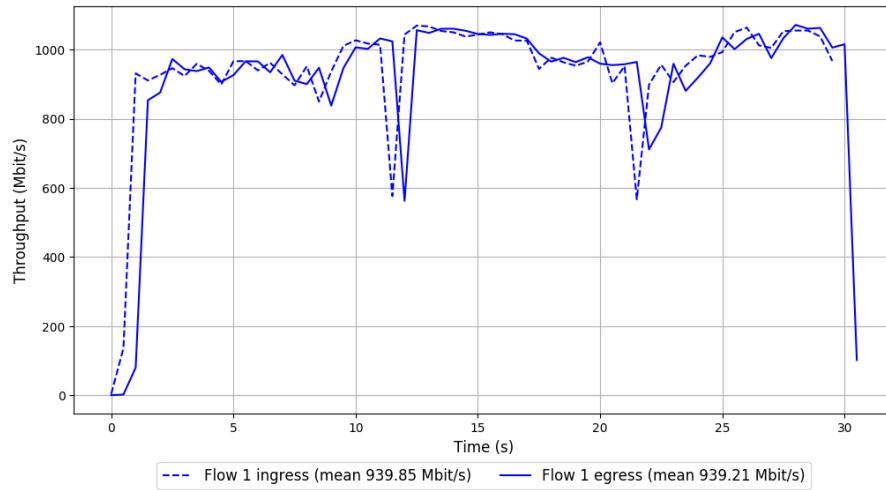


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-01-25 01:16:22
End at: 2019-01-25 01:16:53
Local clock offset: 0.019 ms
Remote clock offset: 0.148 ms

# Below is generated by plot.py at 2019-01-25 03:54:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 939.21 Mbit/s
95th percentile per-packet one-way delay: 96.805 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 939.21 Mbit/s
95th percentile per-packet one-way delay: 96.805 ms
Loss rate: 0.07%
```

Run 2: Report of FillP-Sheep — Data Link

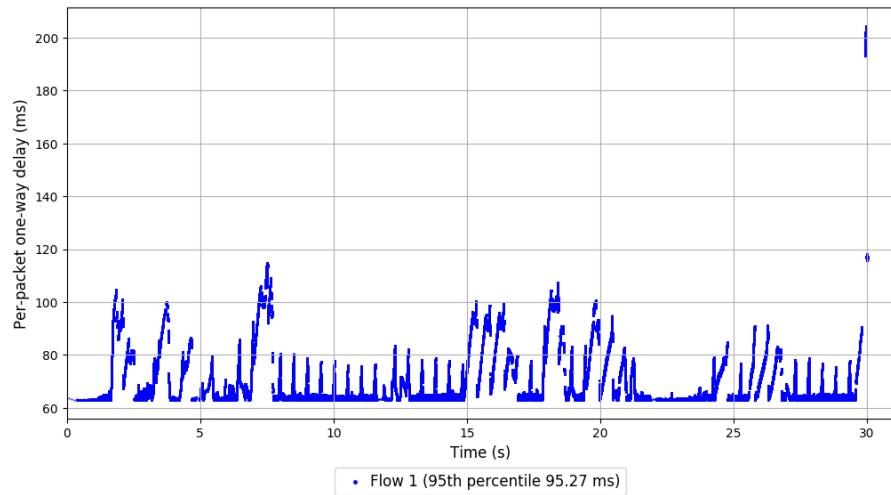
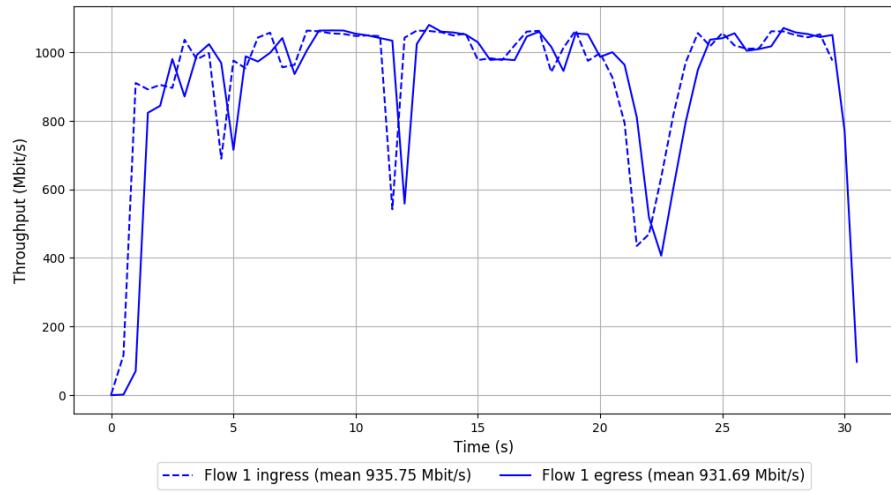


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-01-25 01:47:54
End at: 2019-01-25 01:48:24
Local clock offset: -0.122 ms
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2019-01-25 03:54:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 931.69 Mbit/s
95th percentile per-packet one-way delay: 95.270 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 931.69 Mbit/s
95th percentile per-packet one-way delay: 95.270 ms
Loss rate: 0.43%
```

Run 3: Report of FillP-Sheep — Data Link

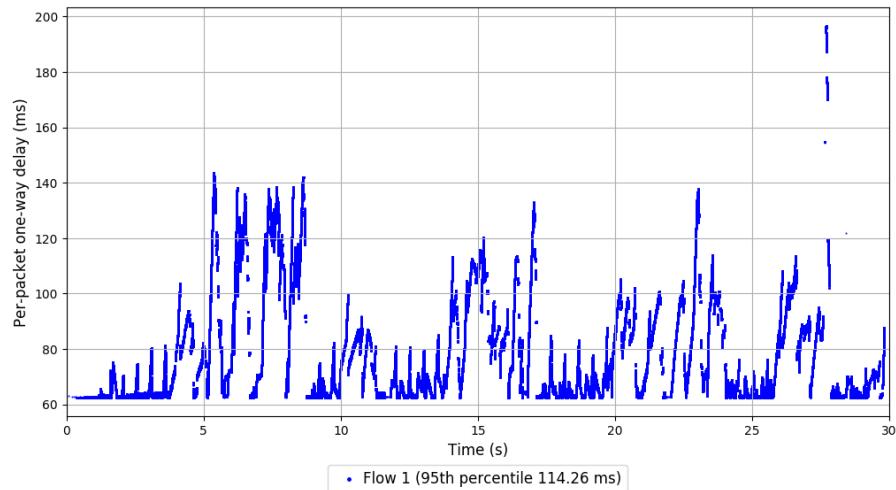
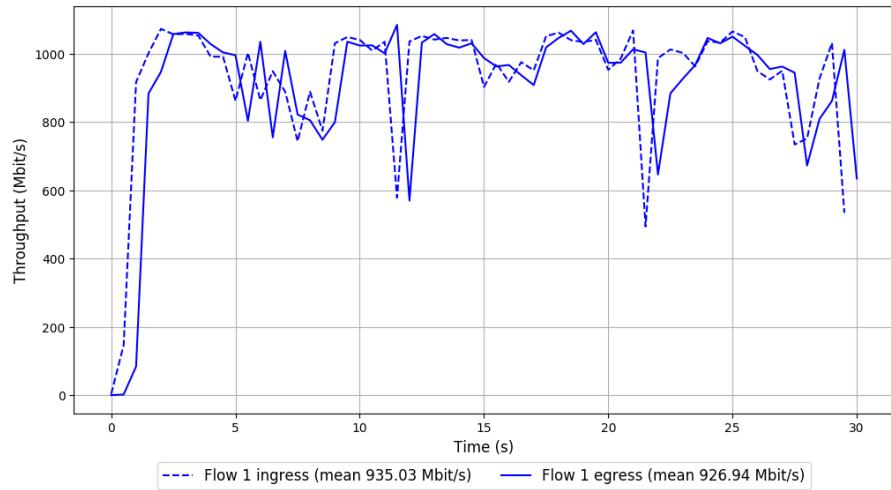


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-01-25 02:19:16
End at: 2019-01-25 02:19:46
Local clock offset: -0.146 ms
Remote clock offset: -0.713 ms

# Below is generated by plot.py at 2019-01-25 04:05:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 926.94 Mbit/s
95th percentile per-packet one-way delay: 114.256 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 926.94 Mbit/s
95th percentile per-packet one-way delay: 114.256 ms
Loss rate: 0.87%
```

Run 4: Report of FillP-Sheep — Data Link

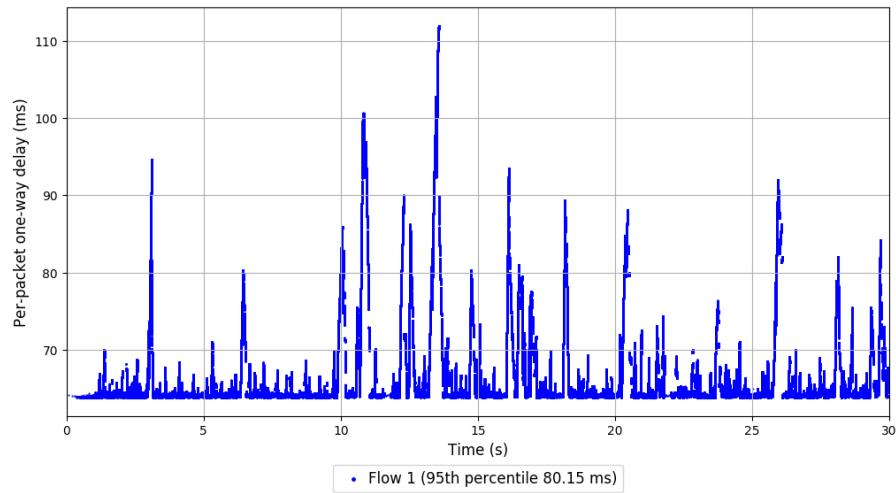
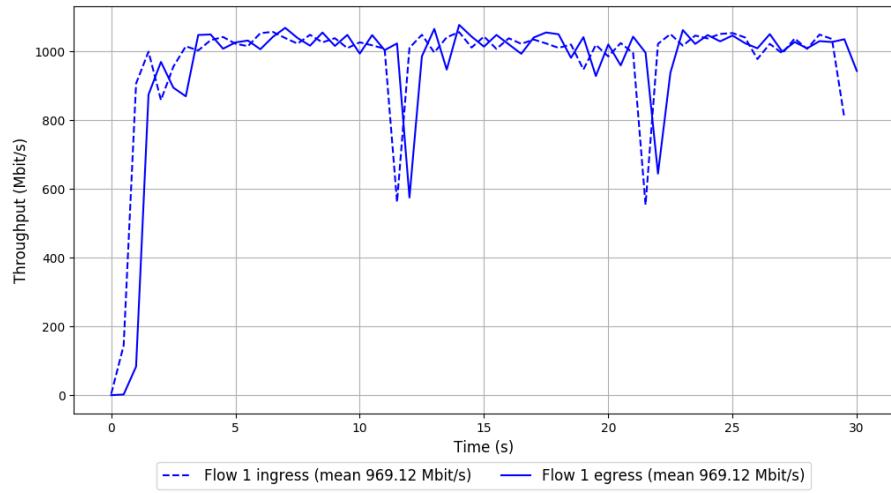


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-01-25 02:50:41
End at: 2019-01-25 02:51:11
Local clock offset: -0.049 ms
Remote clock offset: 0.639 ms

# Below is generated by plot.py at 2019-01-25 04:14:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 969.12 Mbit/s
95th percentile per-packet one-way delay: 80.154 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 969.12 Mbit/s
95th percentile per-packet one-way delay: 80.154 ms
Loss rate: 0.00%
```

Run 5: Report of FillP-Sheep — Data Link

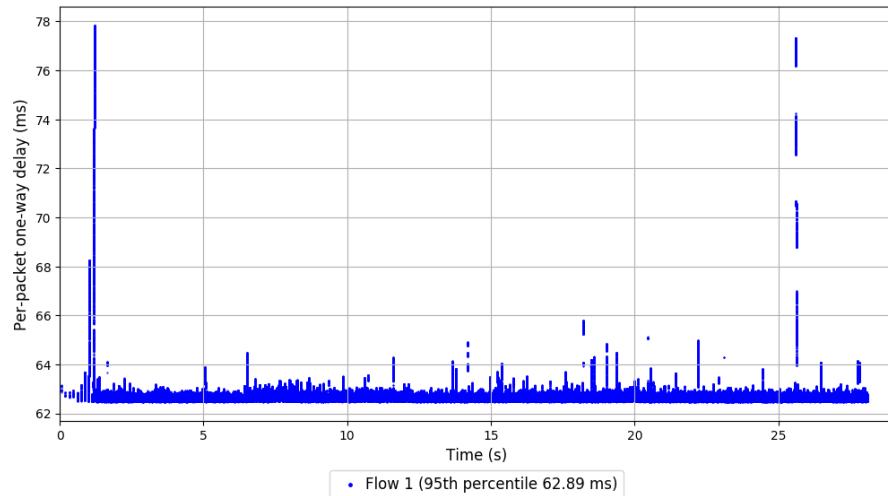
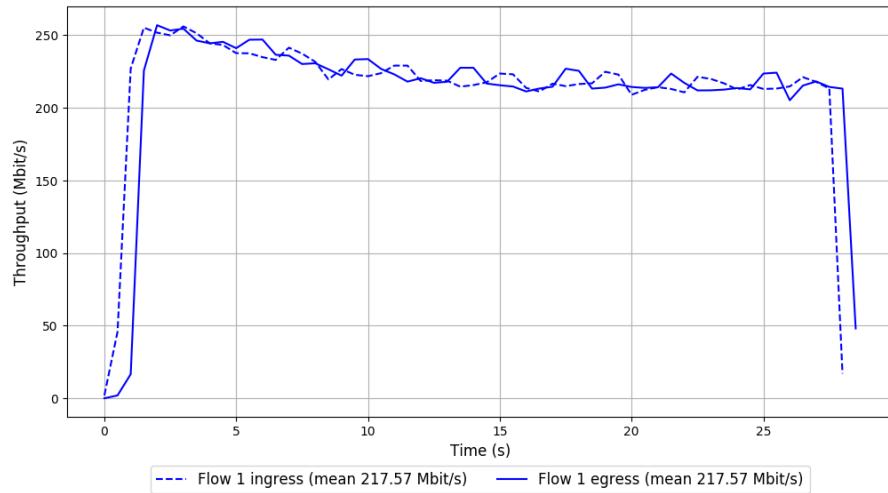


Run 1: Statistics of Indigo

```
Start at: 2019-01-25 00:31:31
End at: 2019-01-25 00:32:01
Local clock offset: -0.142 ms
Remote clock offset: -0.692 ms

# Below is generated by plot.py at 2019-01-25 04:14:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 217.57 Mbit/s
95th percentile per-packet one-way delay: 62.886 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 217.57 Mbit/s
95th percentile per-packet one-way delay: 62.886 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

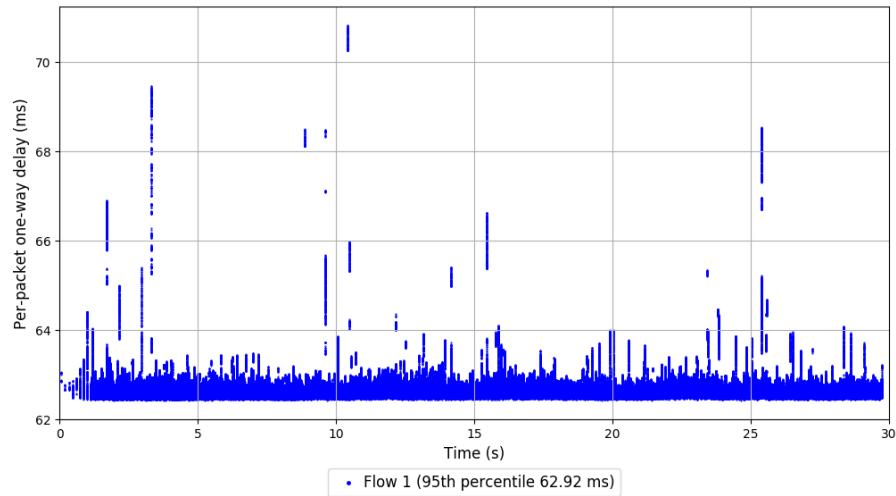
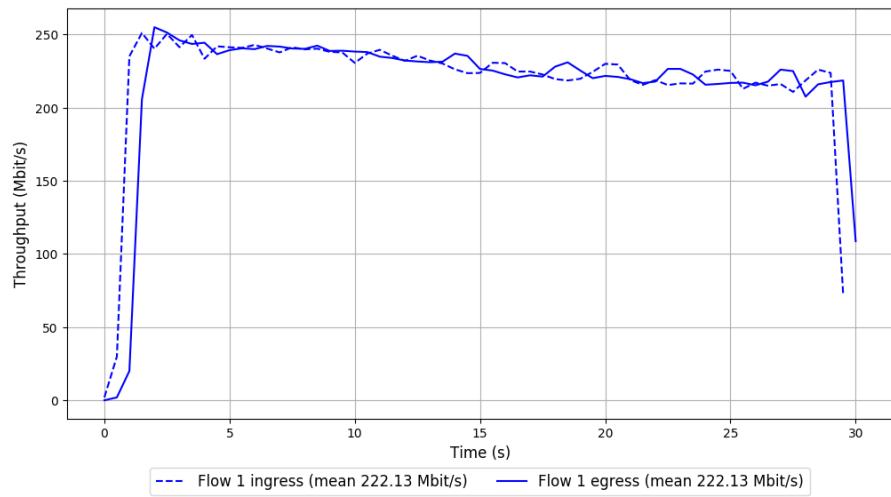


Run 2: Statistics of Indigo

```
Start at: 2019-01-25 01:02:59
End at: 2019-01-25 01:03:29
Local clock offset: 0.066 ms
Remote clock offset: -0.424 ms

# Below is generated by plot.py at 2019-01-25 04:14:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.13 Mbit/s
95th percentile per-packet one-way delay: 62.925 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 222.13 Mbit/s
95th percentile per-packet one-way delay: 62.925 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo — Data Link

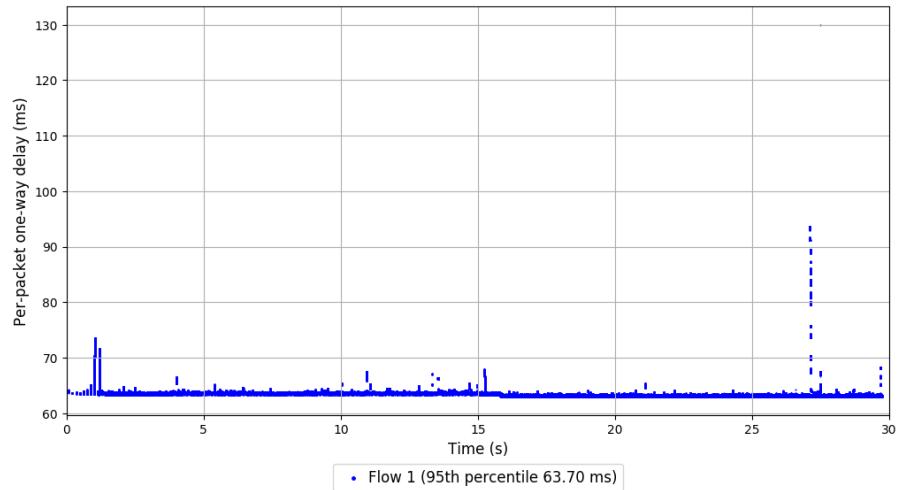
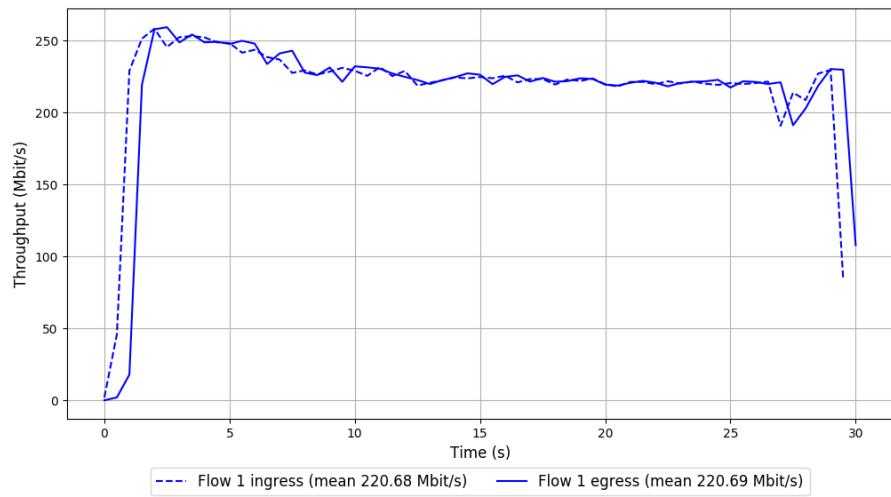


Run 3: Statistics of Indigo

```
Start at: 2019-01-25 01:34:26
End at: 2019-01-25 01:34:56
Local clock offset: 0.174 ms
Remote clock offset: 0.435 ms

# Below is generated by plot.py at 2019-01-25 04:14:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 220.69 Mbit/s
95th percentile per-packet one-way delay: 63.705 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 220.69 Mbit/s
95th percentile per-packet one-way delay: 63.705 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo — Data Link

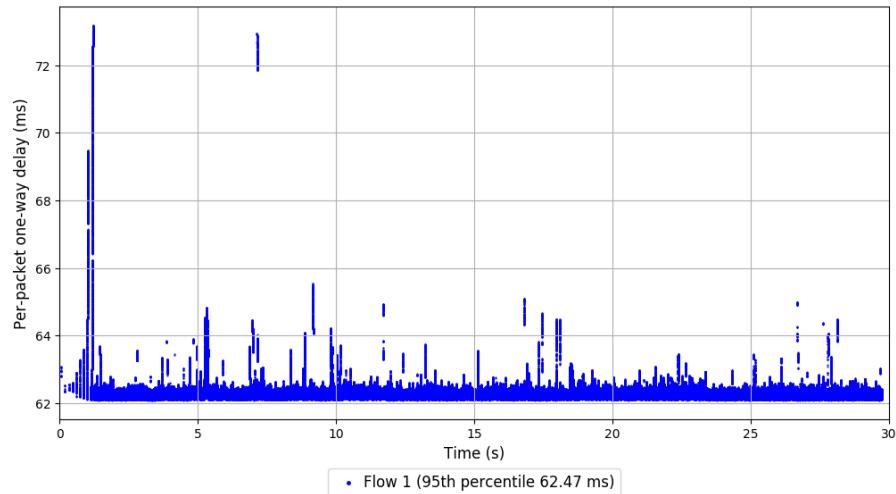
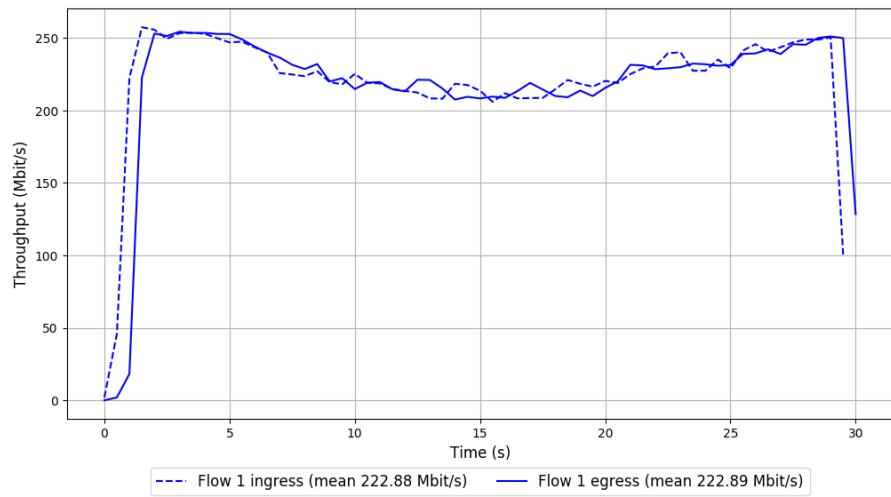


Run 4: Statistics of Indigo

```
Start at: 2019-01-25 02:05:54
End at: 2019-01-25 02:06:24
Local clock offset: -0.18 ms
Remote clock offset: -0.697 ms

# Below is generated by plot.py at 2019-01-25 04:14:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.89 Mbit/s
95th percentile per-packet one-way delay: 62.471 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 222.89 Mbit/s
95th percentile per-packet one-way delay: 62.471 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo — Data Link

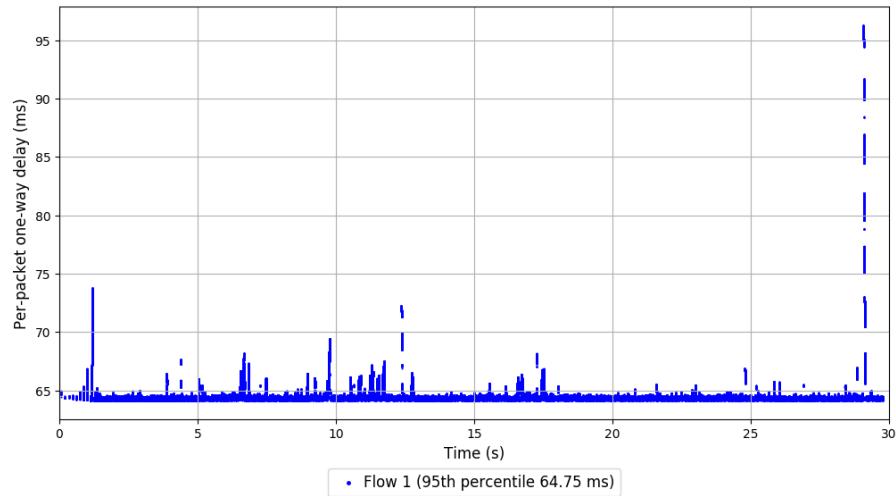
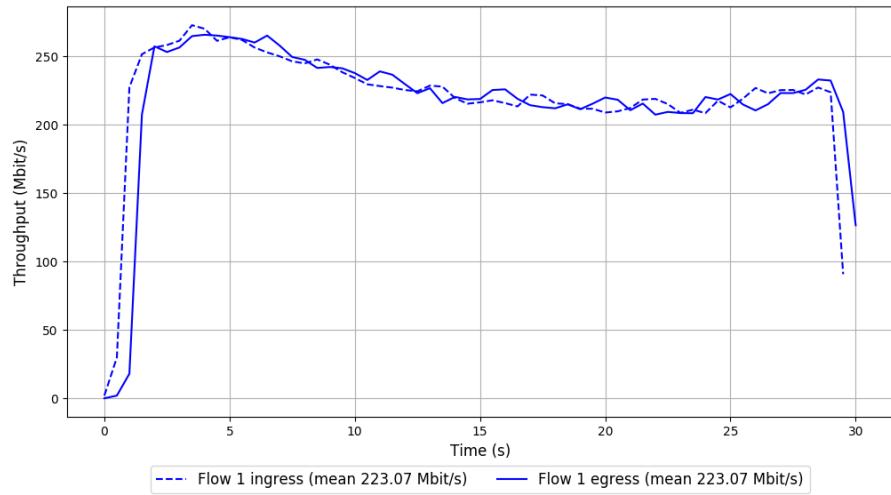


Run 5: Statistics of Indigo

```
Start at: 2019-01-25 02:37:09
End at: 2019-01-25 02:37:39
Local clock offset: -0.136 ms
Remote clock offset: 1.149 ms

# Below is generated by plot.py at 2019-01-25 04:14:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 223.07 Mbit/s
95th percentile per-packet one-way delay: 64.755 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 223.07 Mbit/s
95th percentile per-packet one-way delay: 64.755 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo — Data Link

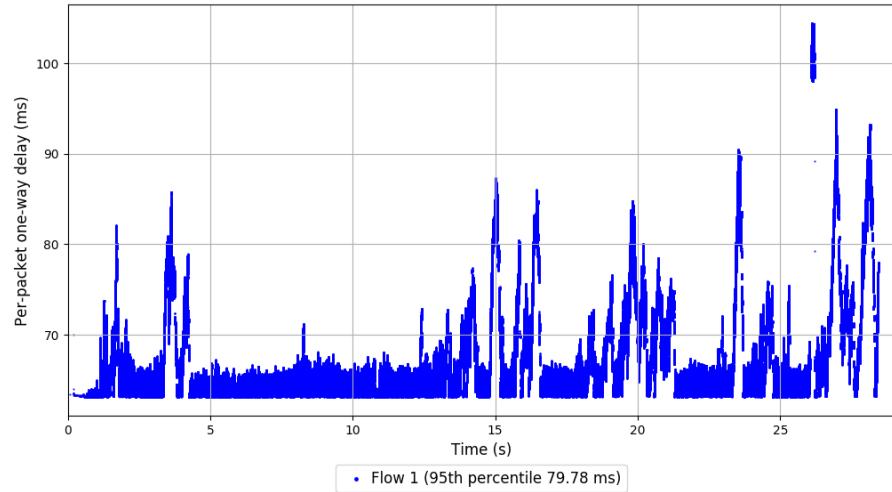
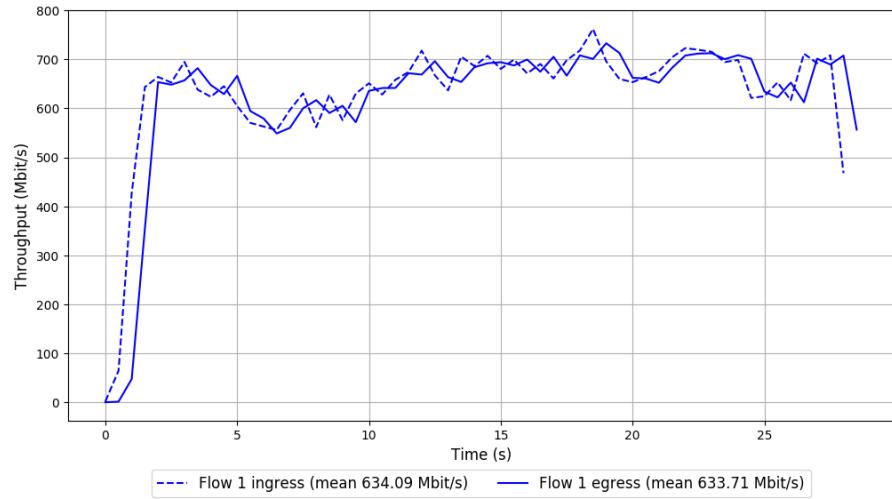


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-01-25 00:52:09
End at: 2019-01-25 00:52:39
Local clock offset: -0.106 ms
Remote clock offset: 0.374 ms

# Below is generated by plot.py at 2019-01-25 04:14:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 633.71 Mbit/s
95th percentile per-packet one-way delay: 79.777 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 633.71 Mbit/s
95th percentile per-packet one-way delay: 79.777 ms
Loss rate: 0.06%
```

Run 1: Report of Indigo-MusesC3 — Data Link

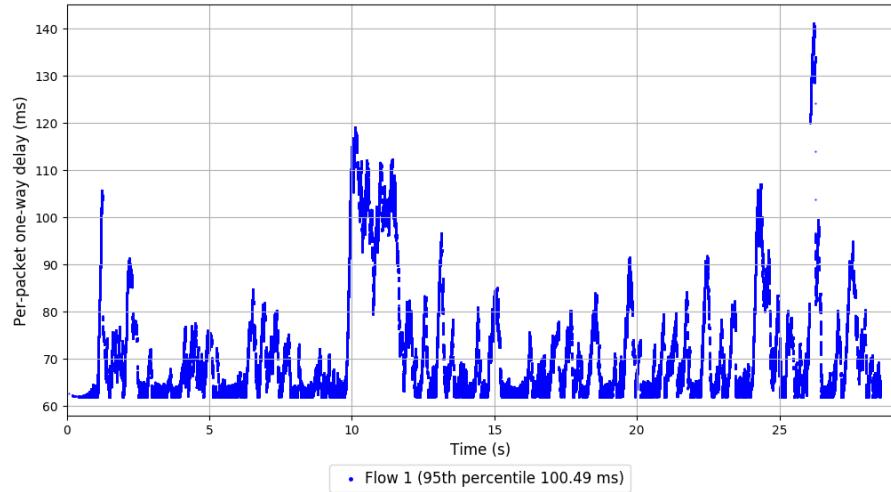
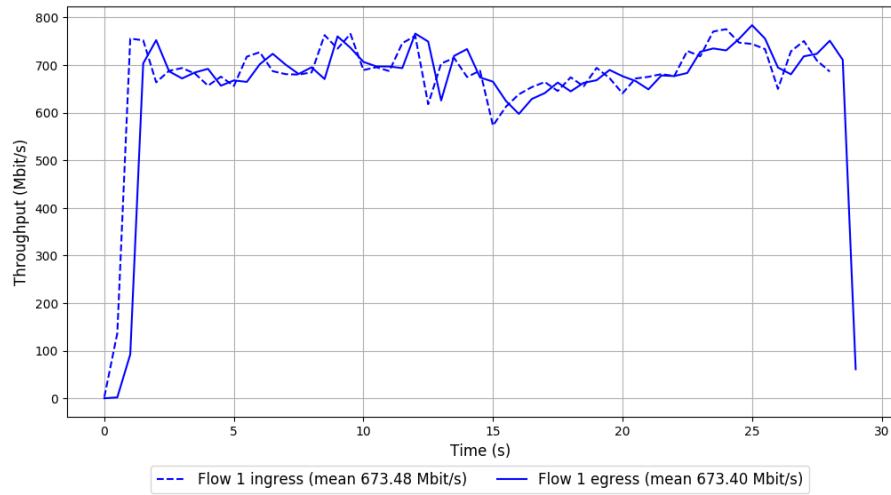


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-01-25 01:23:30
End at: 2019-01-25 01:24:00
Local clock offset: 0.037 ms
Remote clock offset: -0.625 ms

# Below is generated by plot.py at 2019-01-25 04:14:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 673.40 Mbit/s
95th percentile per-packet one-way delay: 100.488 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 673.40 Mbit/s
95th percentile per-packet one-way delay: 100.488 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo-MusesC3 — Data Link

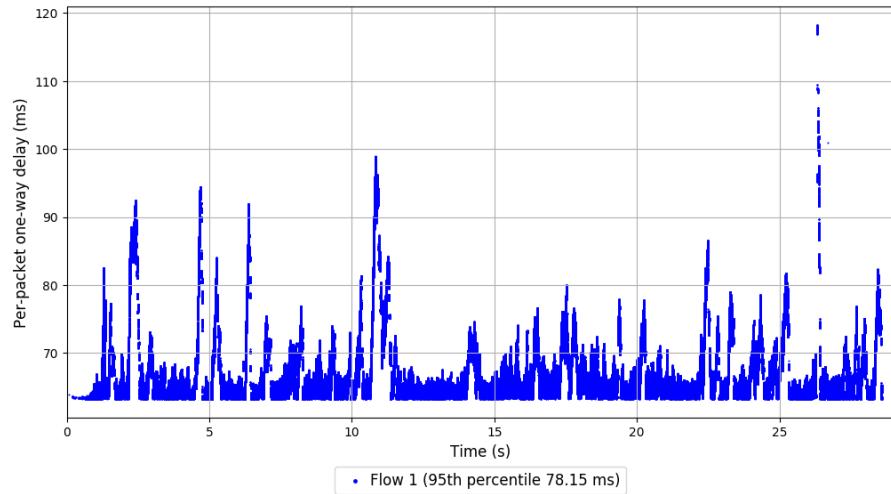
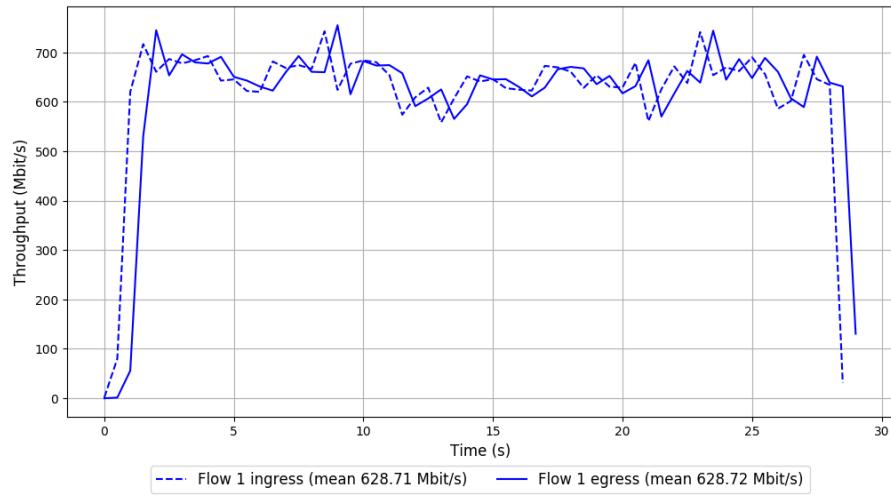


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-01-25 01:55:02
End at: 2019-01-25 01:55:32
Local clock offset: -0.142 ms
Remote clock offset: 0.469 ms

# Below is generated by plot.py at 2019-01-25 04:14:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 628.72 Mbit/s
95th percentile per-packet one-way delay: 78.150 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 628.72 Mbit/s
95th percentile per-packet one-way delay: 78.150 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-MusesC3 — Data Link

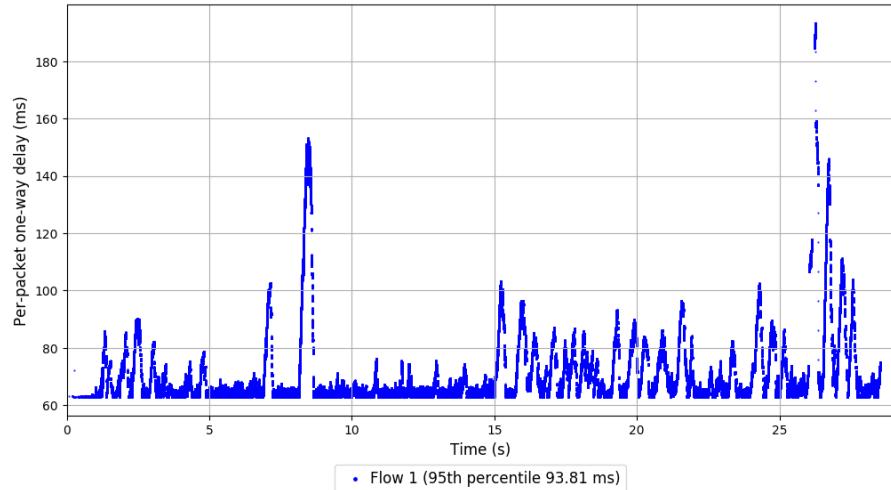
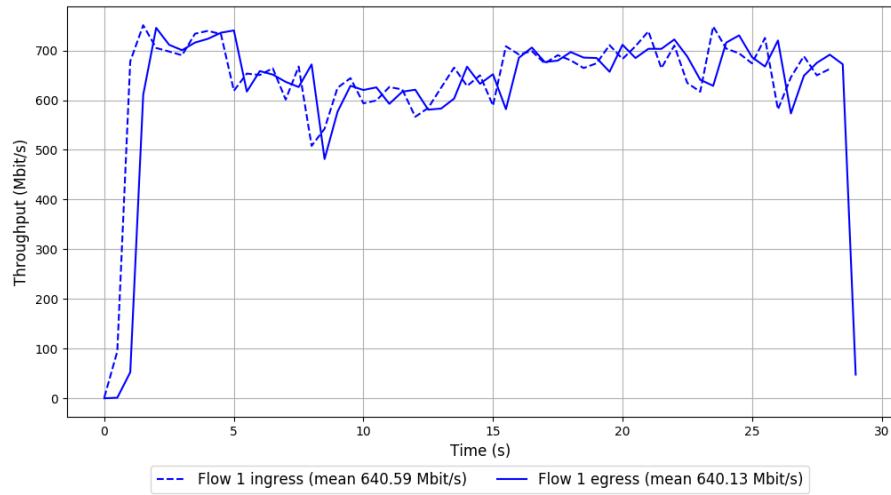


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-01-25 02:26:13
End at: 2019-01-25 02:26:43
Local clock offset: -0.097 ms
Remote clock offset: -0.248 ms

# Below is generated by plot.py at 2019-01-25 04:14:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 640.13 Mbit/s
95th percentile per-packet one-way delay: 93.806 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 640.13 Mbit/s
95th percentile per-packet one-way delay: 93.806 ms
Loss rate: 0.07%
```

Run 4: Report of Indigo-MusesC3 — Data Link

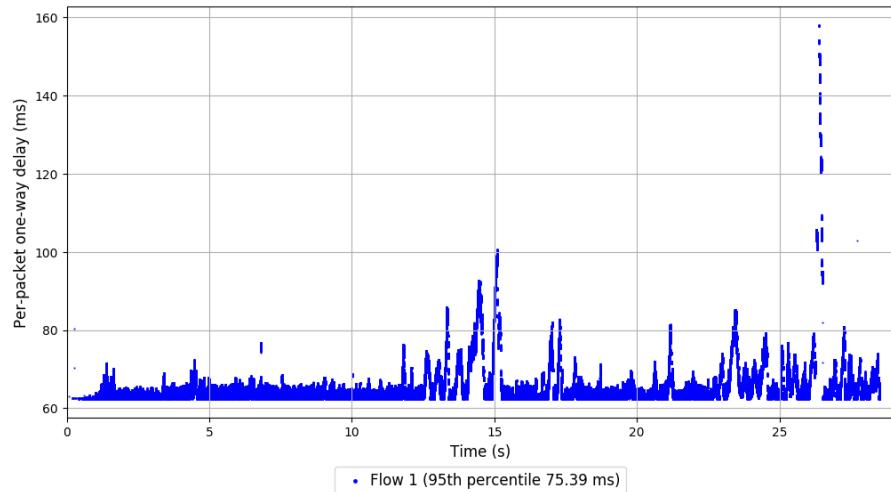
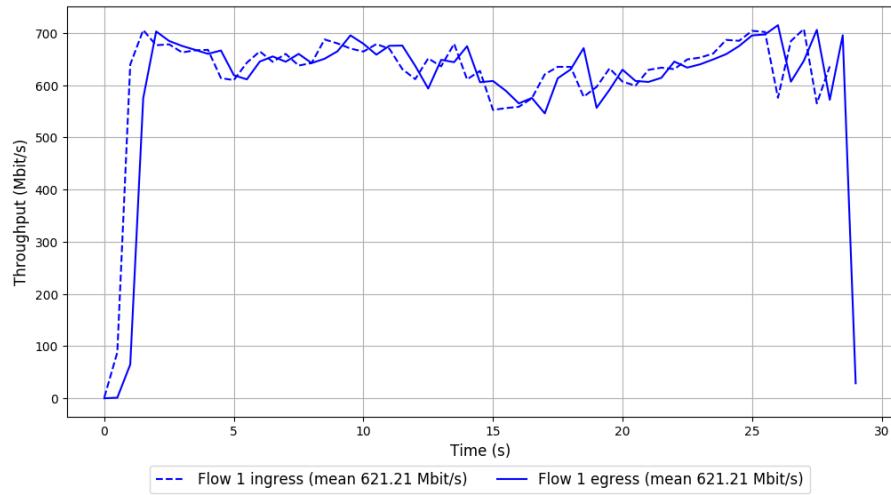


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-01-25 02:57:46
End at: 2019-01-25 02:58:16
Local clock offset: 0.147 ms
Remote clock offset: -0.827 ms

# Below is generated by plot.py at 2019-01-25 04:14:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 621.21 Mbit/s
95th percentile per-packet one-way delay: 75.389 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 621.21 Mbit/s
95th percentile per-packet one-way delay: 75.389 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesC3 — Data Link

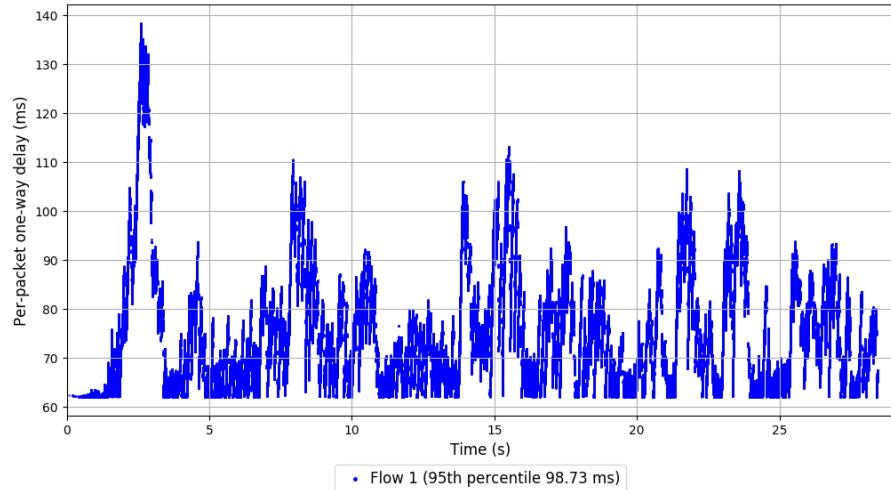
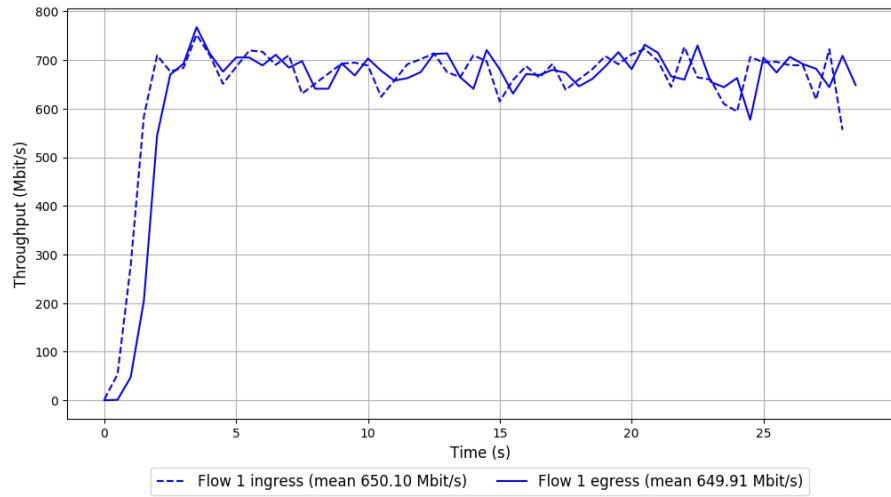


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-01-25 00:29:52
End at: 2019-01-25 00:30:22
Local clock offset: 0.068 ms
Remote clock offset: -0.624 ms

# Below is generated by plot.py at 2019-01-25 04:14:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 649.91 Mbit/s
95th percentile per-packet one-way delay: 98.726 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 649.91 Mbit/s
95th percentile per-packet one-way delay: 98.726 ms
Loss rate: 0.03%
```

Run 1: Report of Indigo-MusesC5 — Data Link

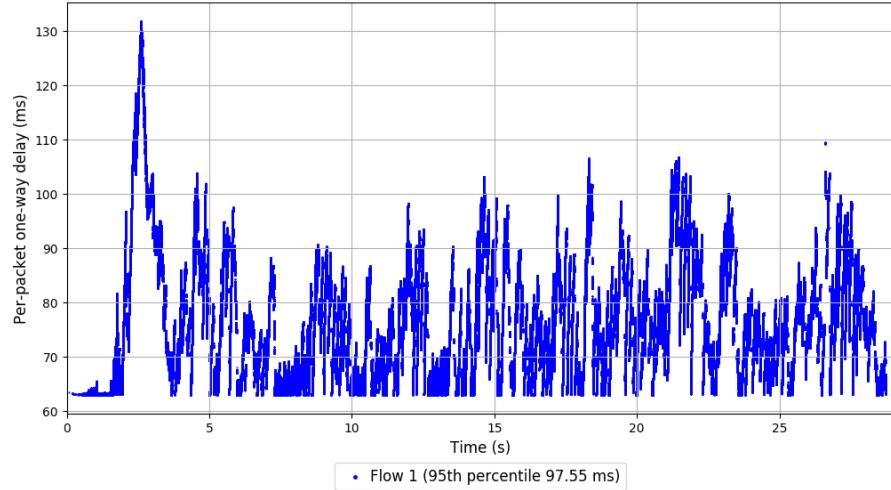
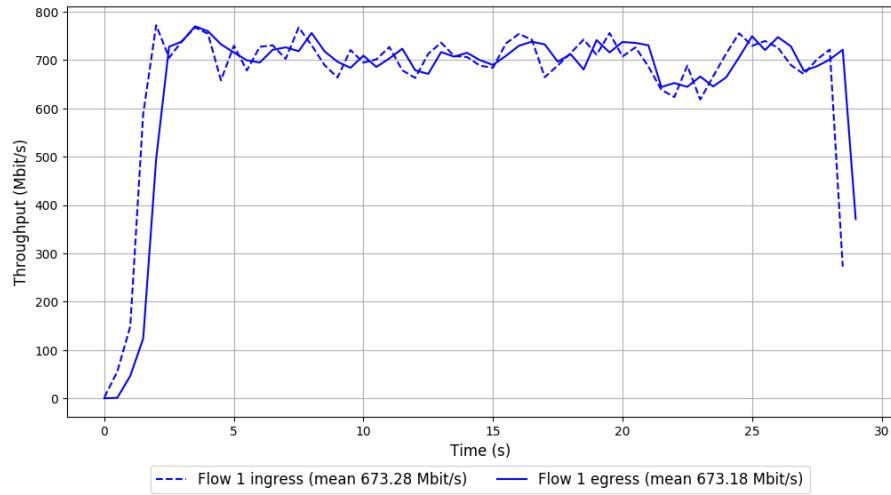


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-01-25 01:01:20
End at: 2019-01-25 01:01:50
Local clock offset: -0.087 ms
Remote clock offset: 0.224 ms

# Below is generated by plot.py at 2019-01-25 04:17:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 673.18 Mbit/s
95th percentile per-packet one-way delay: 97.547 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 673.18 Mbit/s
95th percentile per-packet one-way delay: 97.547 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo-MusesC5 — Data Link

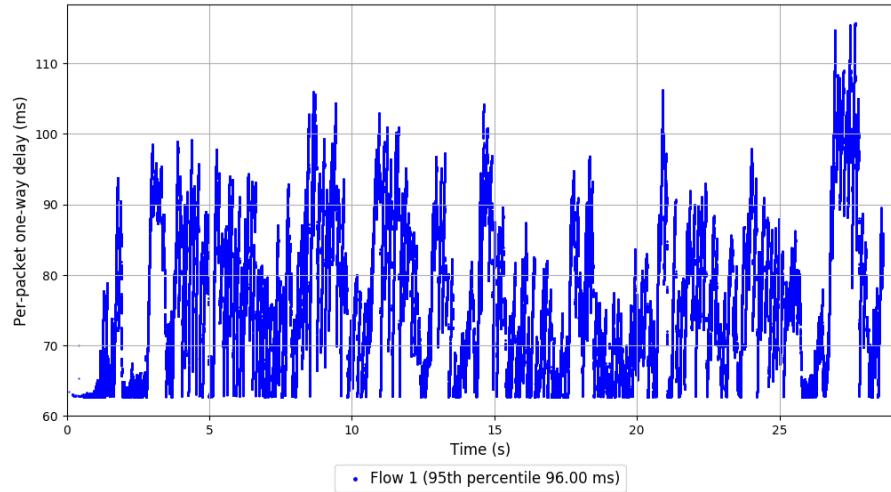
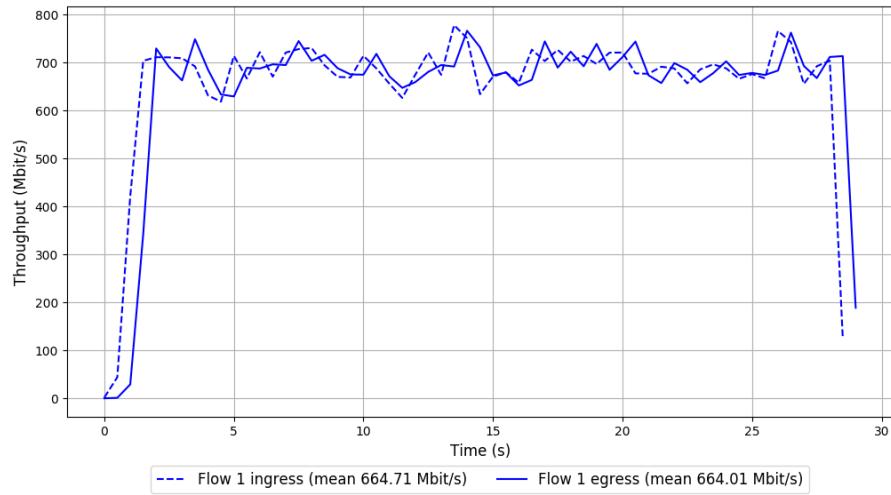


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-01-25 01:32:48
End at: 2019-01-25 01:33:18
Local clock offset: 0.091 ms
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2019-01-25 04:17:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 664.01 Mbit/s
95th percentile per-packet one-way delay: 96.001 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 664.01 Mbit/s
95th percentile per-packet one-way delay: 96.001 ms
Loss rate: 0.11%
```

Run 3: Report of Indigo-MusesC5 — Data Link

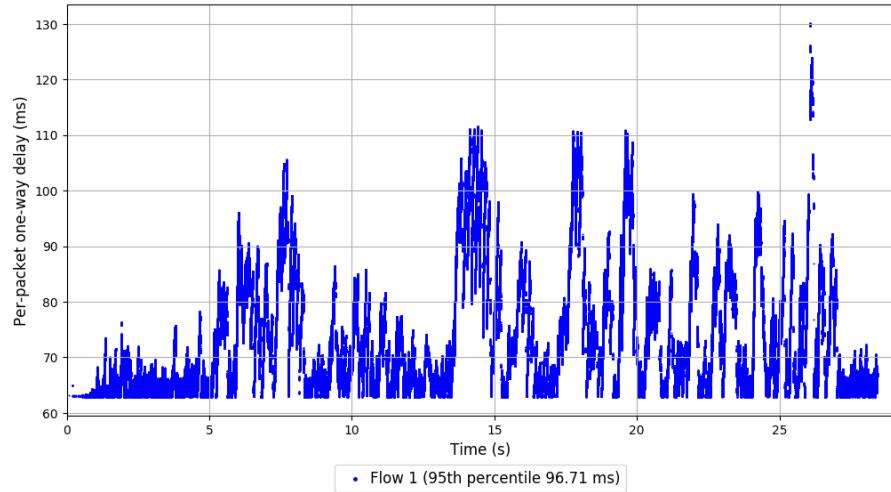
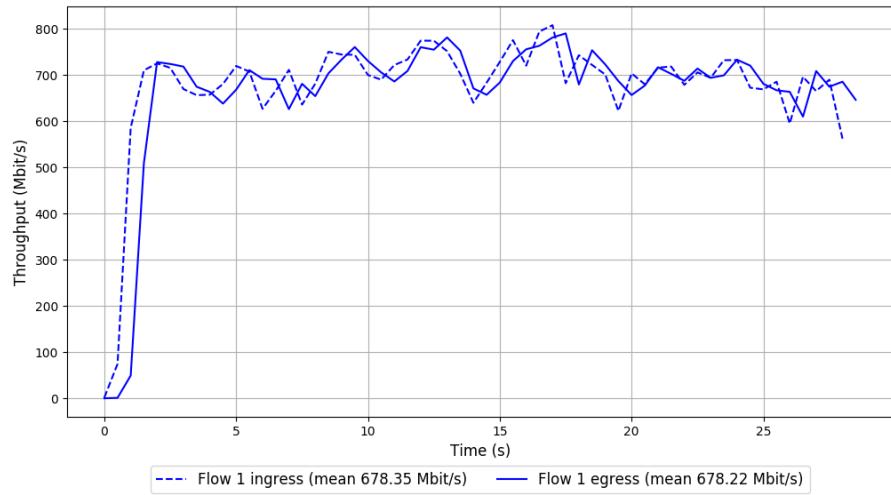


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-01-25 02:04:14
End at: 2019-01-25 02:04:44
Local clock offset: -0.176 ms
Remote clock offset: -0.155 ms

# Below is generated by plot.py at 2019-01-25 04:24:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 678.22 Mbit/s
95th percentile per-packet one-way delay: 96.711 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 678.22 Mbit/s
95th percentile per-packet one-way delay: 96.711 ms
Loss rate: 0.02%
```

Run 4: Report of Indigo-MusesC5 — Data Link

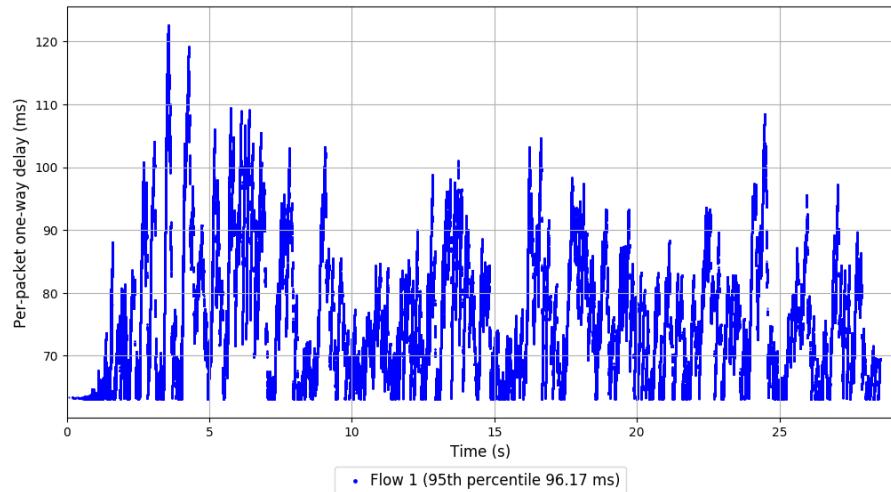
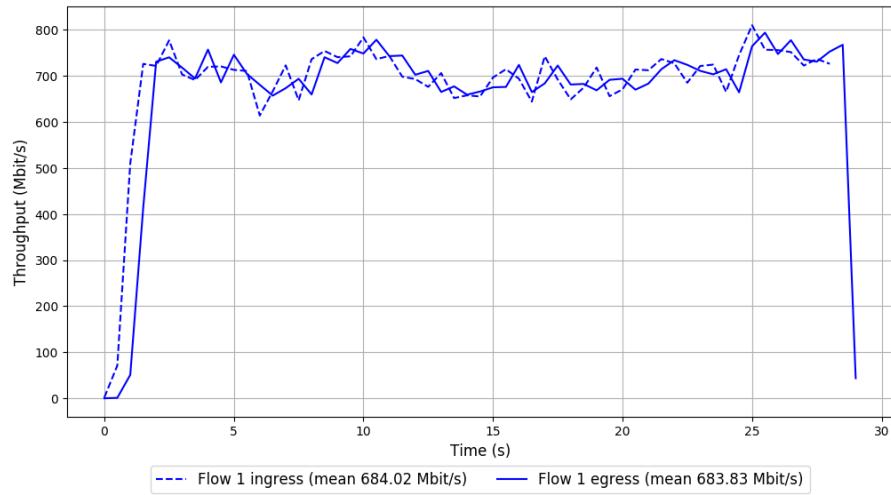


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-01-25 02:35:28
End at: 2019-01-25 02:35:58
Local clock offset: -0.035 ms
Remote clock offset: 0.353 ms

# Below is generated by plot.py at 2019-01-25 04:24:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 683.83 Mbit/s
95th percentile per-packet one-way delay: 96.167 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 683.83 Mbit/s
95th percentile per-packet one-way delay: 96.167 ms
Loss rate: 0.03%
```

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

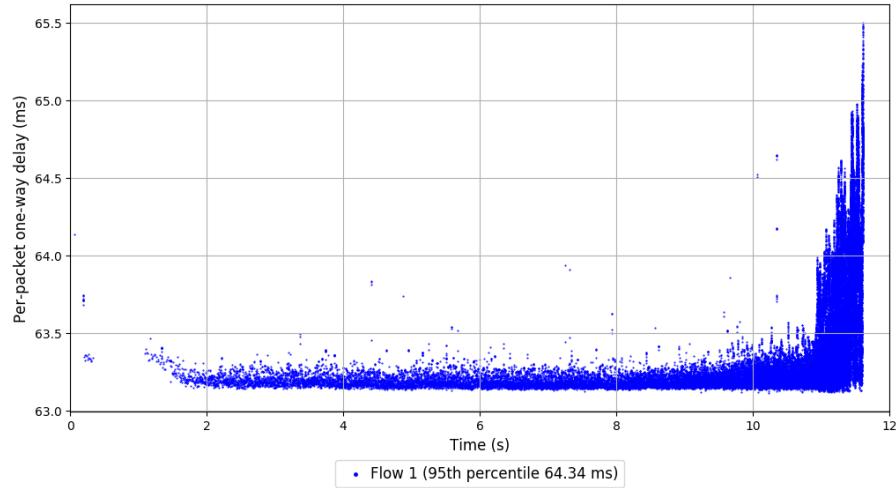
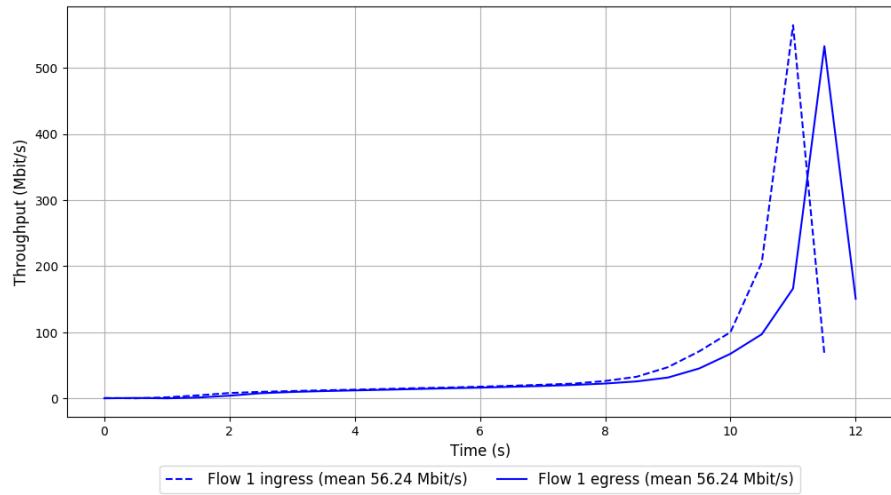
Start at: 2019-01-25 00:22:48

End at: 2019-01-25 00:23:18

Local clock offset: -0.144 ms

Remote clock offset: -0.001 ms

Run 1: Report of Indigo-MusesD — Data Link

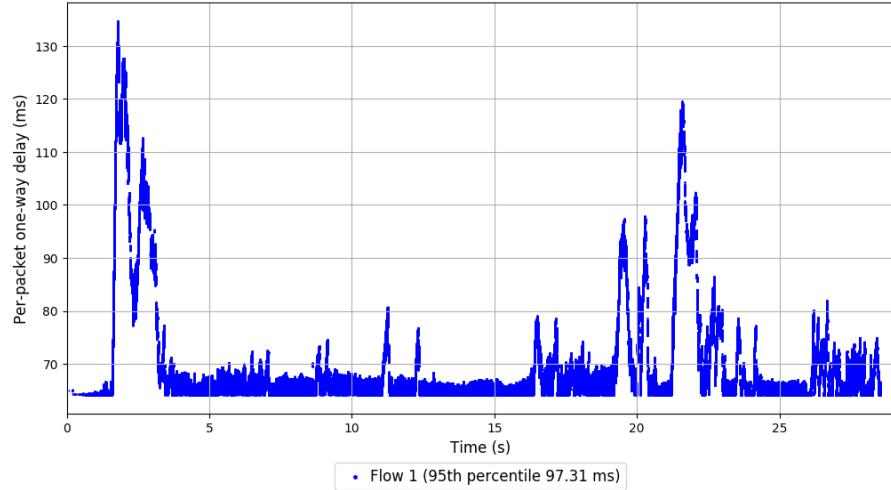
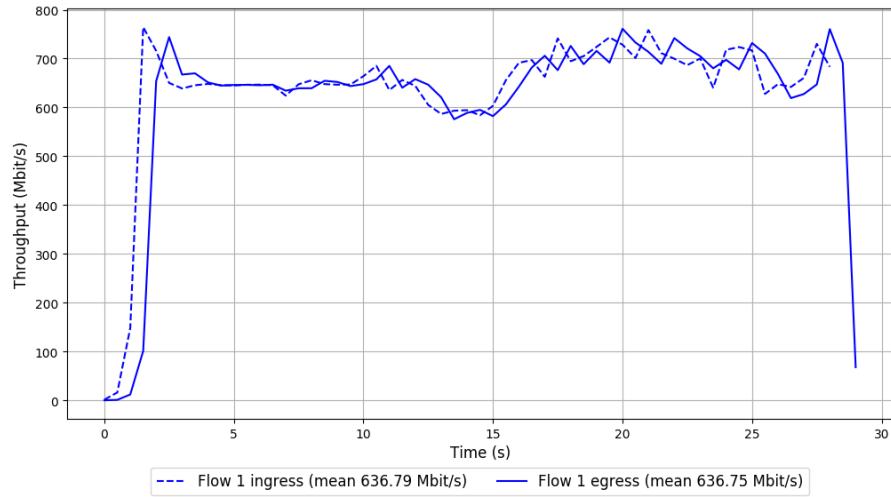


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-01-25 00:53:47
End at: 2019-01-25 00:54:17
Local clock offset: -0.021 ms
Remote clock offset: 1.208 ms

# Below is generated by plot.py at 2019-01-25 04:24:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 636.75 Mbit/s
95th percentile per-packet one-way delay: 97.306 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 636.75 Mbit/s
95th percentile per-packet one-way delay: 97.306 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-MusesD — Data Link

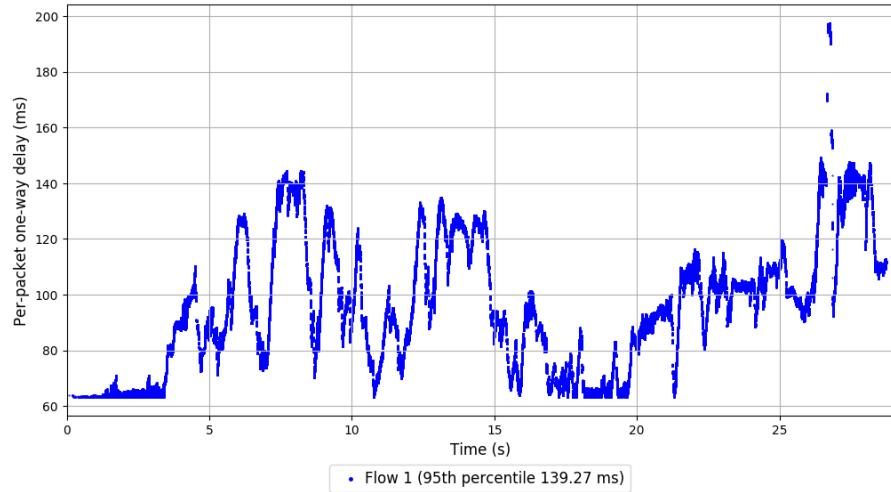
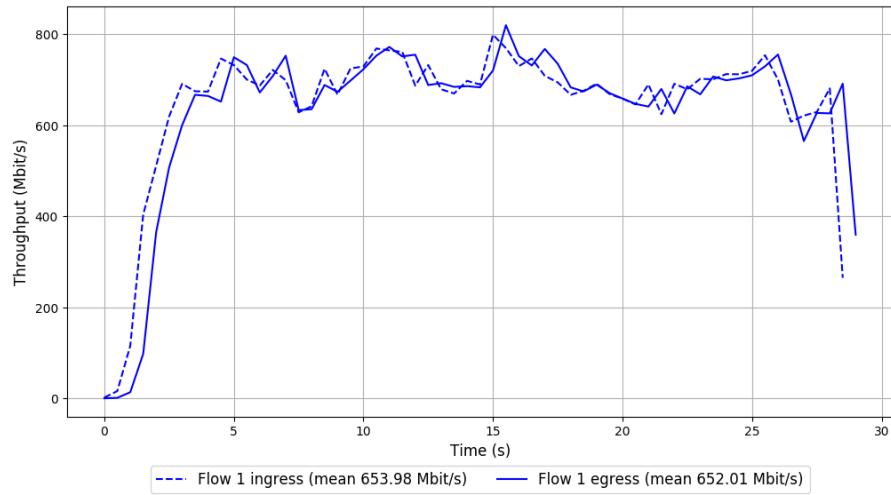


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-01-25 01:25:09
End at: 2019-01-25 01:25:39
Local clock offset: 0.023 ms
Remote clock offset: 0.617 ms

# Below is generated by plot.py at 2019-01-25 04:24:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 652.01 Mbit/s
95th percentile per-packet one-way delay: 139.269 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 652.01 Mbit/s
95th percentile per-packet one-way delay: 139.269 ms
Loss rate: 0.30%
```

Run 3: Report of Indigo-MusesD — Data Link

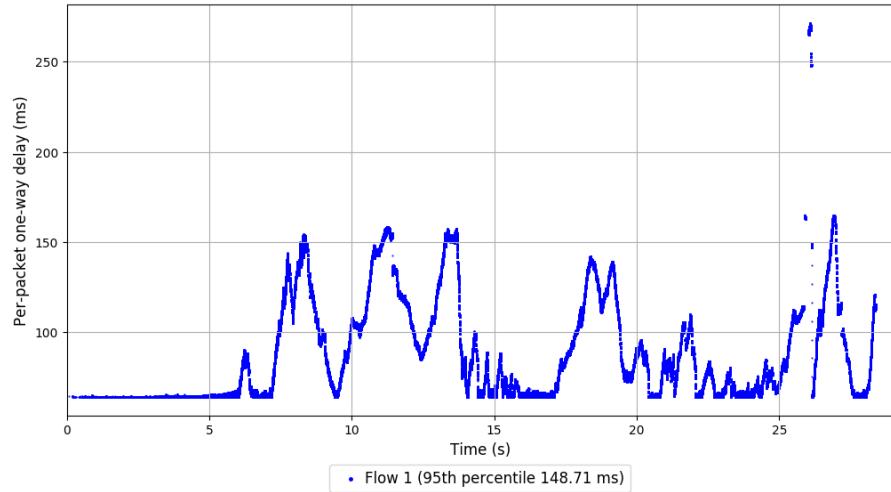
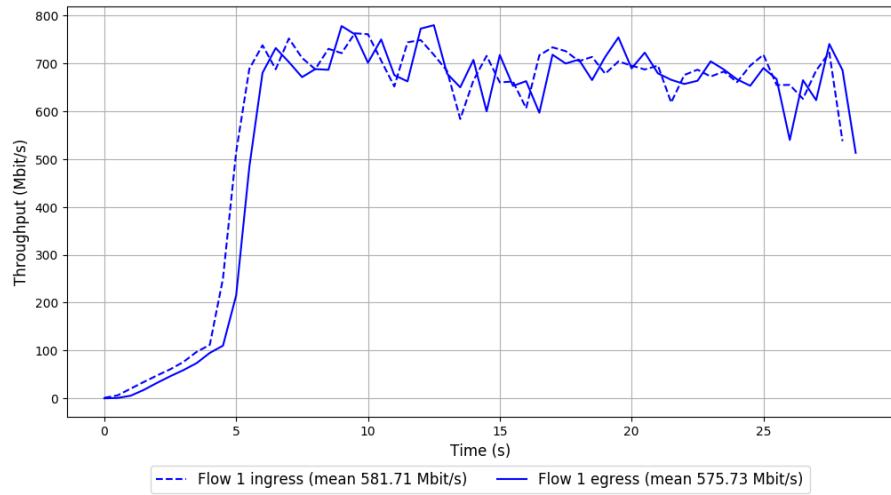


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-01-25 01:56:40
End at: 2019-01-25 01:57:10
Local clock offset: -0.123 ms
Remote clock offset: 1.046 ms

# Below is generated by plot.py at 2019-01-25 04:24:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 575.73 Mbit/s
95th percentile per-packet one-way delay: 148.713 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 575.73 Mbit/s
95th percentile per-packet one-way delay: 148.713 ms
Loss rate: 1.01%
```

Run 4: Report of Indigo-MusesD — Data Link

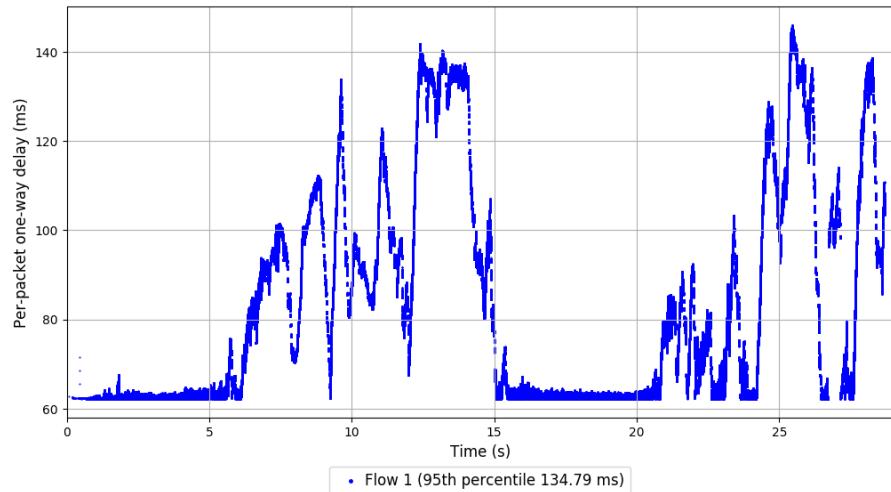
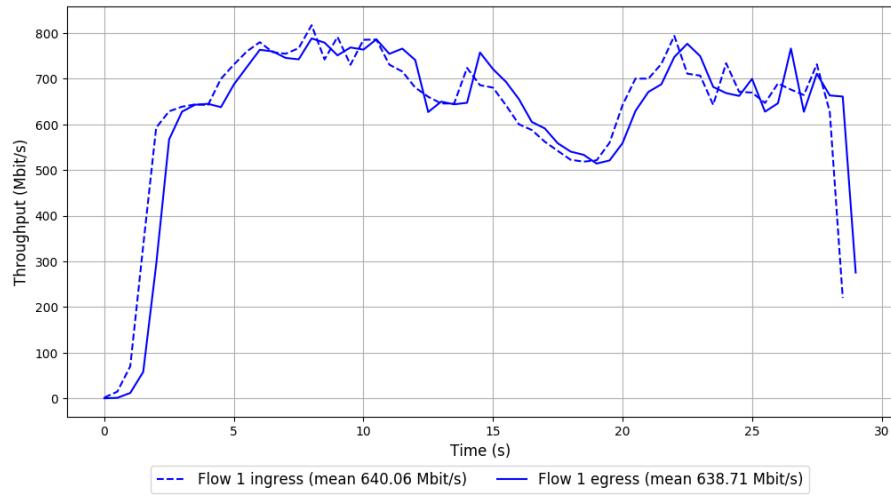


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-01-25 02:27:50
End at: 2019-01-25 02:28:20
Local clock offset: -0.13 ms
Remote clock offset: -0.571 ms

# Below is generated by plot.py at 2019-01-25 04:25:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 638.71 Mbit/s
95th percentile per-packet one-way delay: 134.794 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 638.71 Mbit/s
95th percentile per-packet one-way delay: 134.794 ms
Loss rate: 0.21%
```

Run 5: Report of Indigo-MusesD — Data Link

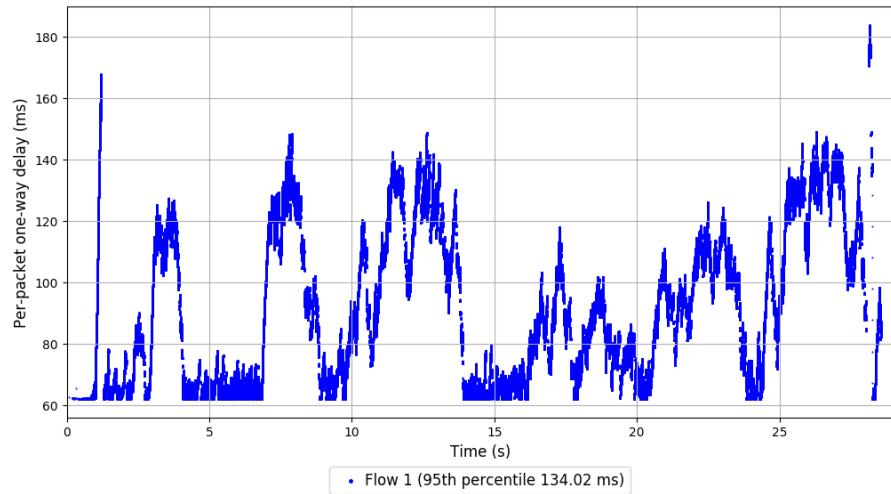
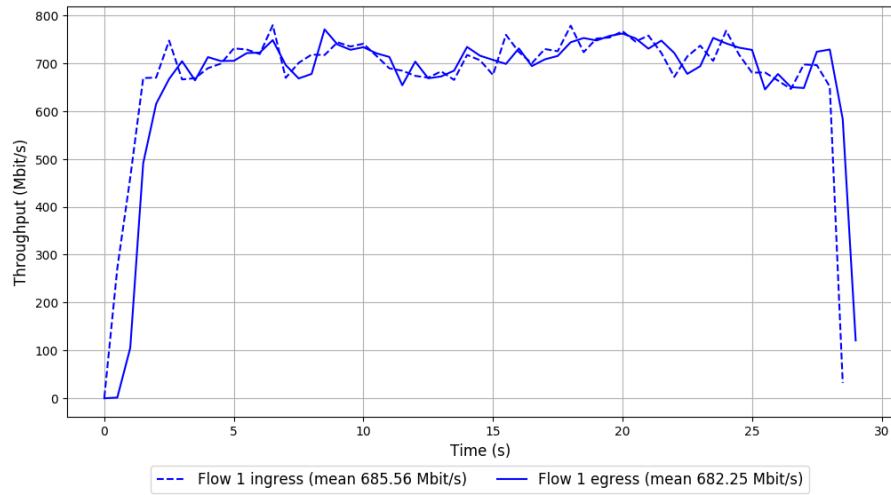


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-01-25 00:26:35
End at: 2019-01-25 00:27:05
Local clock offset: -0.124 ms
Remote clock offset: -0.736 ms

# Below is generated by plot.py at 2019-01-25 04:29:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 682.25 Mbit/s
95th percentile per-packet one-way delay: 134.016 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 682.25 Mbit/s
95th percentile per-packet one-way delay: 134.016 ms
Loss rate: 0.48%
```

Run 1: Report of Indigo-MusesT — Data Link

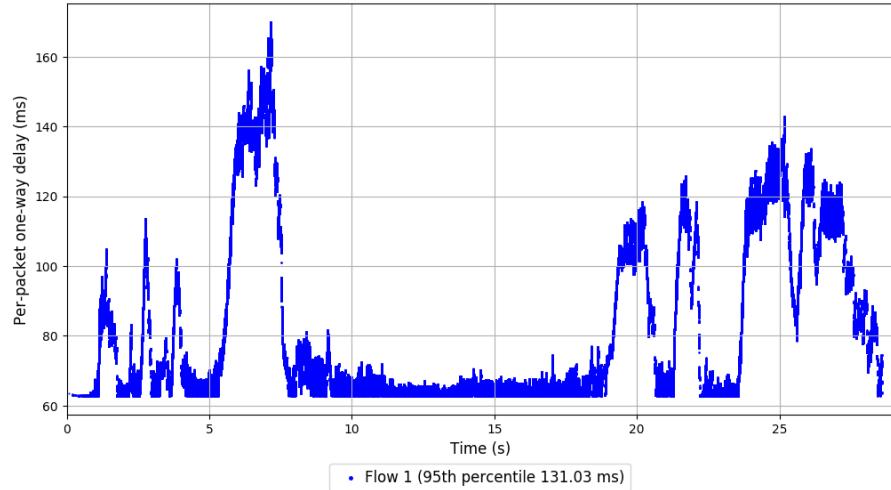
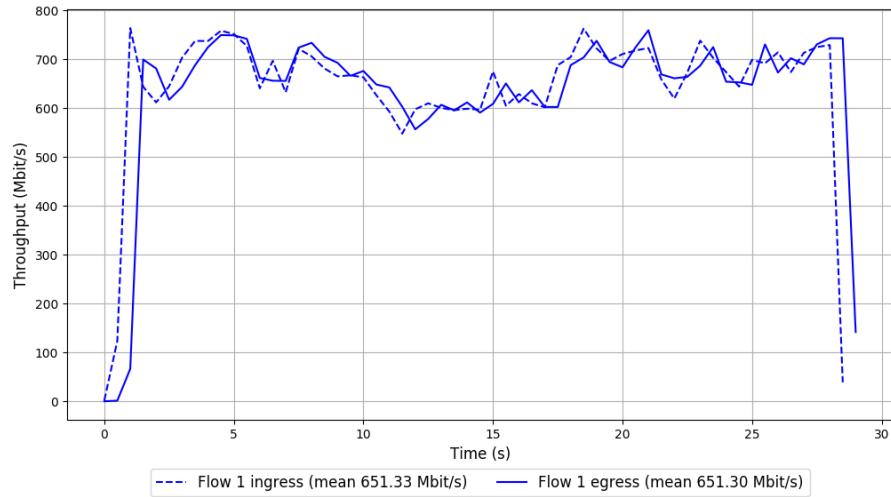


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-01-25 00:58:07
End at: 2019-01-25 00:58:37
Local clock offset: -0.099 ms
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2019-01-25 04:29:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 651.30 Mbit/s
95th percentile per-packet one-way delay: 131.029 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 651.30 Mbit/s
95th percentile per-packet one-way delay: 131.029 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo-MusesT — Data Link

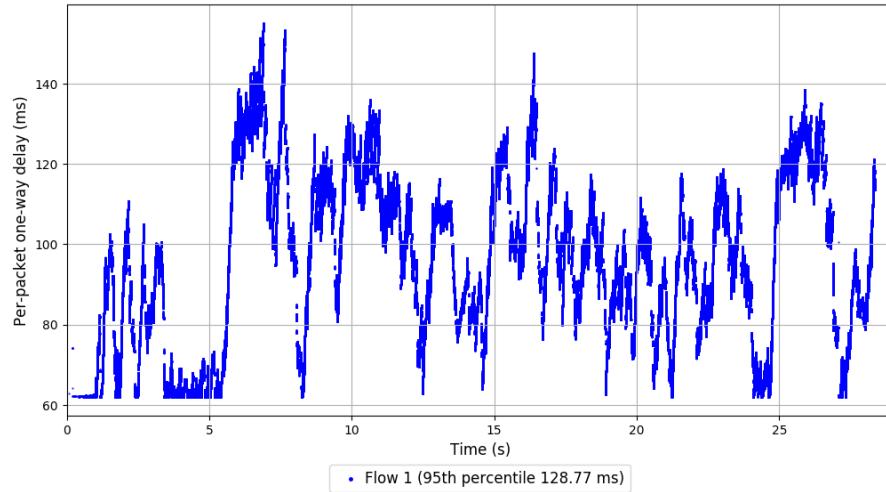
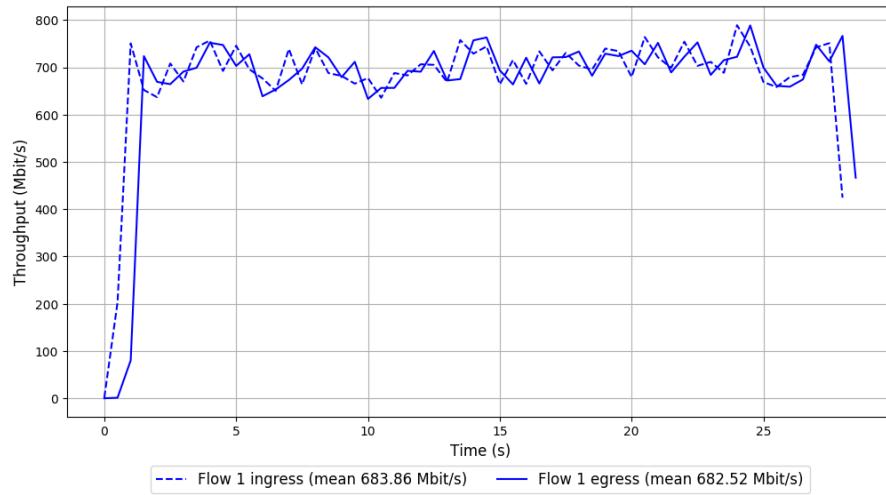


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-01-25 01:29:28
End at: 2019-01-25 01:29:58
Local clock offset: 0.147 ms
Remote clock offset: -0.706 ms

# Below is generated by plot.py at 2019-01-25 04:34:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 682.52 Mbit/s
95th percentile per-packet one-way delay: 128.766 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 682.52 Mbit/s
95th percentile per-packet one-way delay: 128.766 ms
Loss rate: 0.20%
```

Run 3: Report of Indigo-MusesT — Data Link

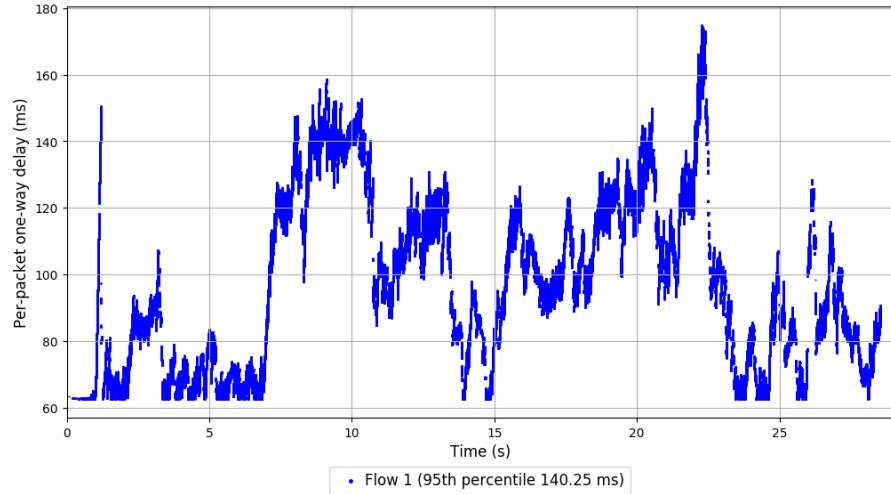
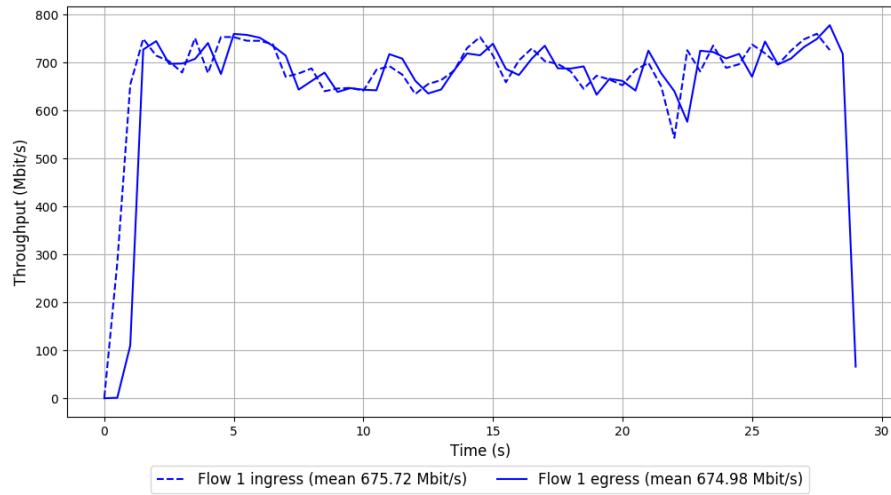


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-01-25 02:00:56
End at: 2019-01-25 02:01:26
Local clock offset: -0.157 ms
Remote clock offset: -0.616 ms

# Below is generated by plot.py at 2019-01-25 04:34:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 674.98 Mbit/s
95th percentile per-packet one-way delay: 140.252 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 674.98 Mbit/s
95th percentile per-packet one-way delay: 140.252 ms
Loss rate: 0.11%
```

Run 4: Report of Indigo-MusesT — Data Link

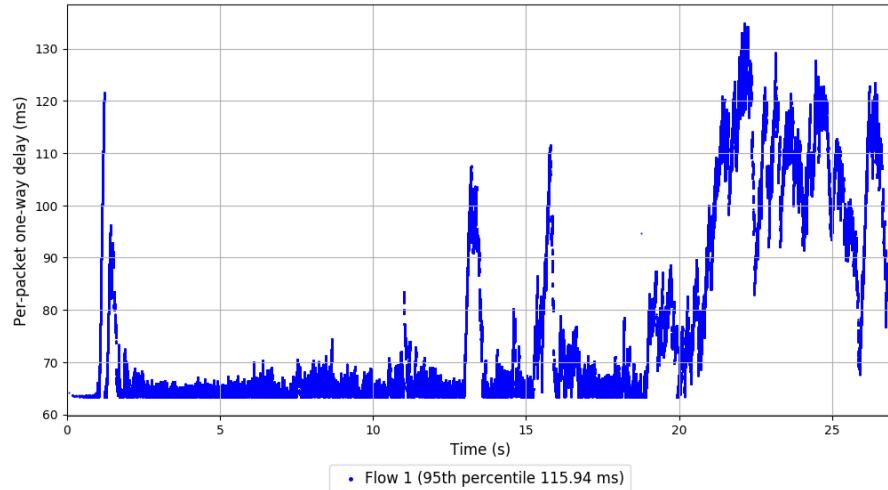
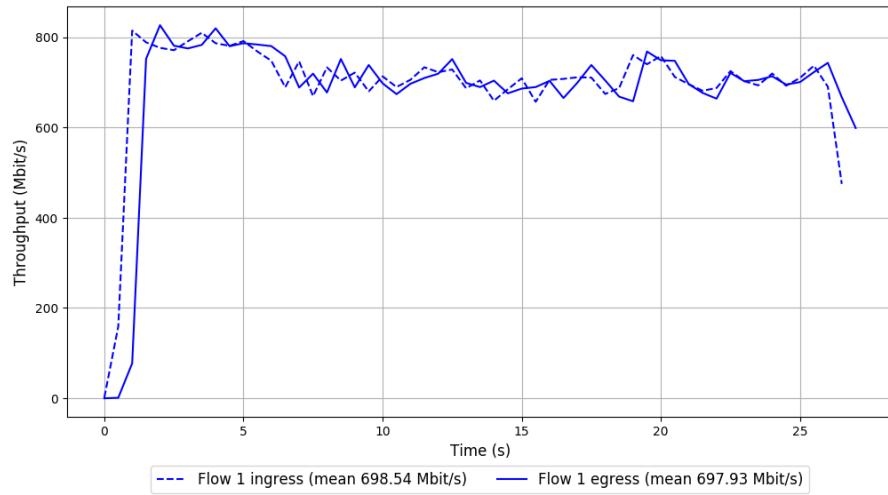


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-01-25 02:32:10
End at: 2019-01-25 02:32:40
Local clock offset: -0.135 ms
Remote clock offset: 0.052 ms

# Below is generated by plot.py at 2019-01-25 04:34:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 697.93 Mbit/s
95th percentile per-packet one-way delay: 115.942 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 697.93 Mbit/s
95th percentile per-packet one-way delay: 115.942 ms
Loss rate: 0.09%
```

Run 5: Report of Indigo-MusesT — Data Link

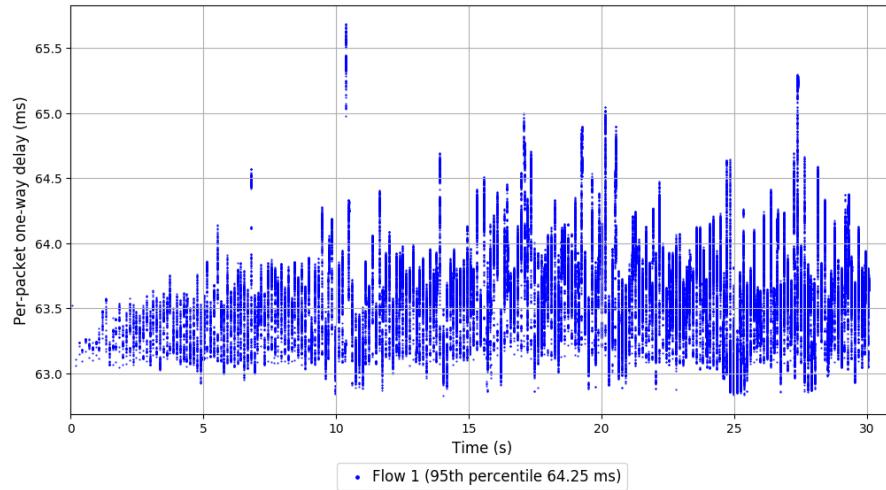
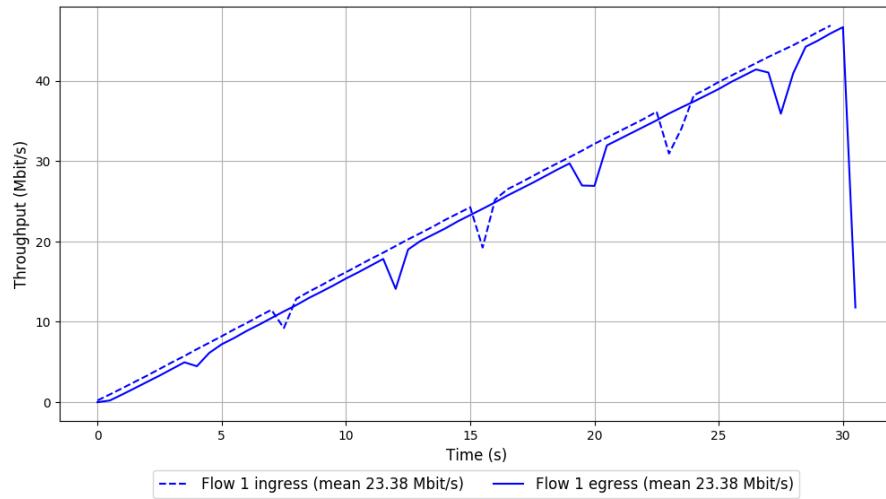


Run 1: Statistics of LEDBAT

```
Start at: 2019-01-25 00:42:11
End at: 2019-01-25 00:42:41
Local clock offset: -0.12 ms
Remote clock offset: -0.169 ms

# Below is generated by plot.py at 2019-01-25 04:34:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.38 Mbit/s
95th percentile per-packet one-way delay: 64.248 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 23.38 Mbit/s
95th percentile per-packet one-way delay: 64.248 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

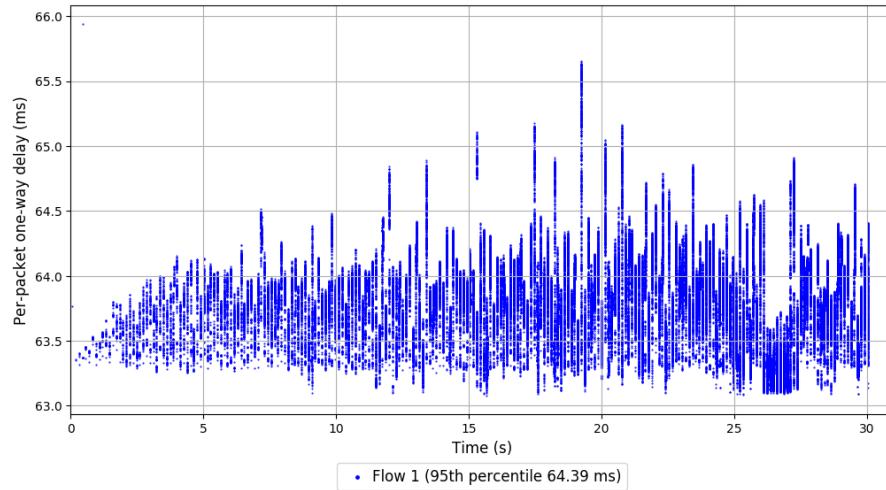
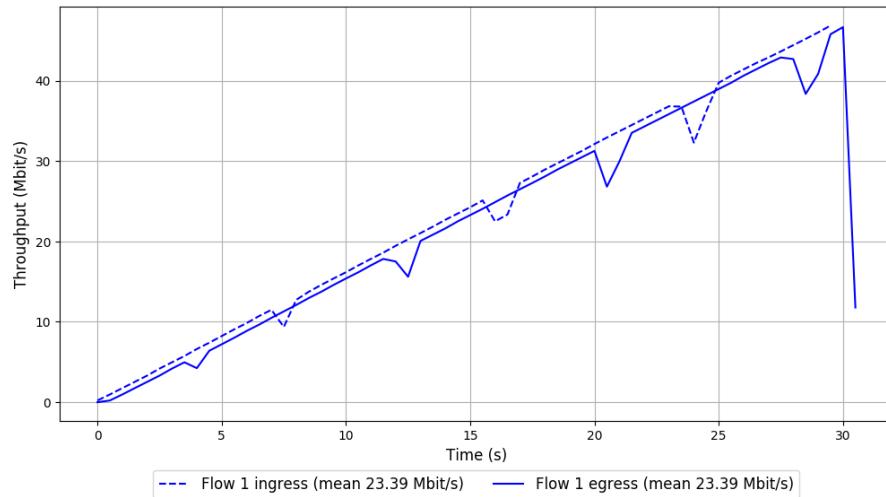


Run 2: Statistics of LEDBAT

```
Start at: 2019-01-25 01:13:32
End at: 2019-01-25 01:14:02
Local clock offset: -0.005 ms
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2019-01-25 04:34:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.39 Mbit/s
95th percentile per-packet one-way delay: 64.386 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 23.39 Mbit/s
95th percentile per-packet one-way delay: 64.386 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link

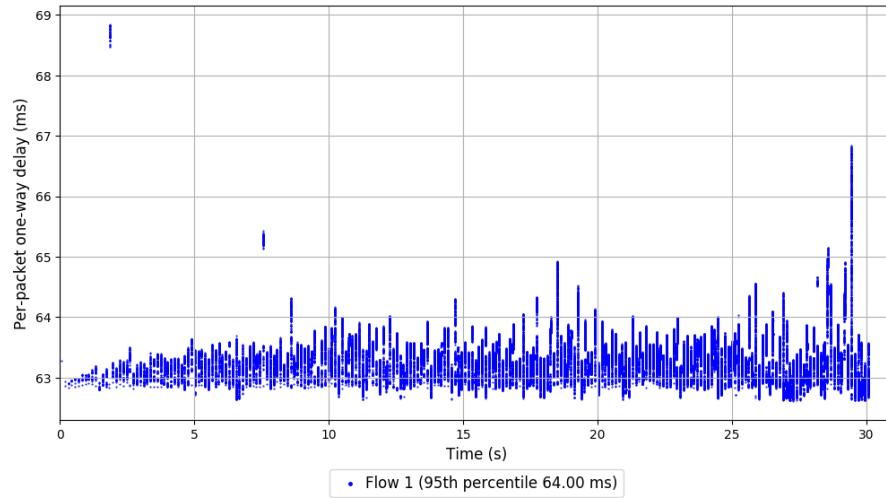
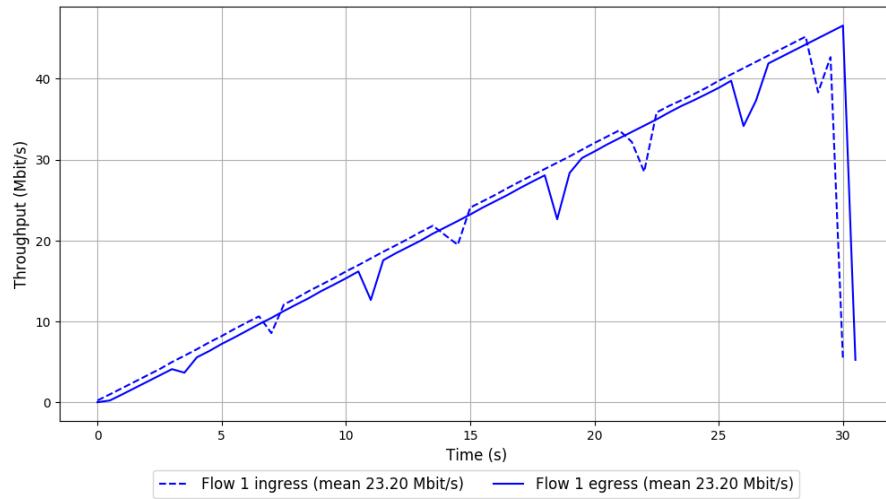


Run 3: Statistics of LEDBAT

```
Start at: 2019-01-25 01:45:04
End at: 2019-01-25 01:45:34
Local clock offset: -0.111 ms
Remote clock offset: -0.537 ms

# Below is generated by plot.py at 2019-01-25 04:34:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.20 Mbit/s
95th percentile per-packet one-way delay: 64.000 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 23.20 Mbit/s
95th percentile per-packet one-way delay: 64.000 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link

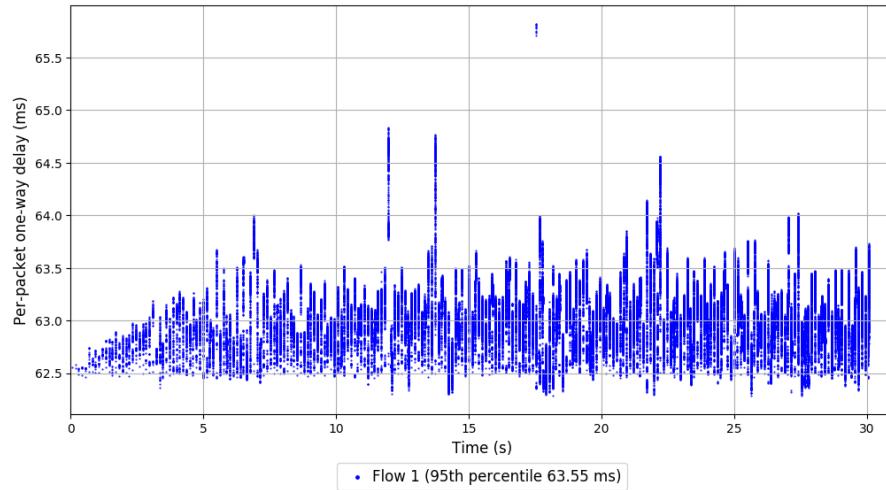
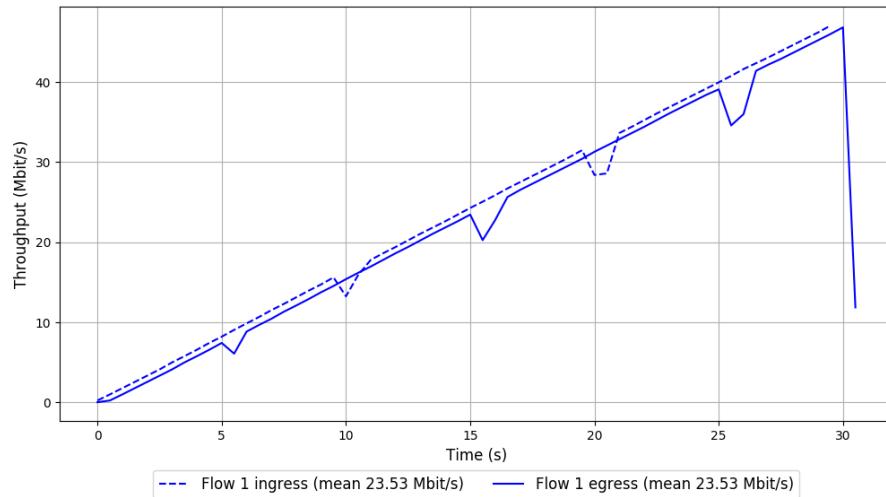


Run 4: Statistics of LEDBAT

```
Start at: 2019-01-25 02:16:26
End at: 2019-01-25 02:16:56
Local clock offset: -0.15 ms
Remote clock offset: -0.773 ms

# Below is generated by plot.py at 2019-01-25 04:34:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.53 Mbit/s
95th percentile per-packet one-way delay: 63.546 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 23.53 Mbit/s
95th percentile per-packet one-way delay: 63.546 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link

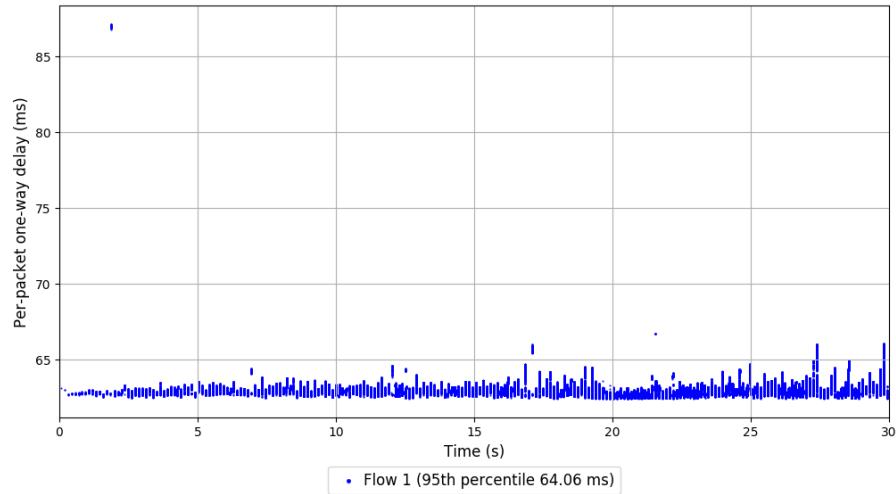
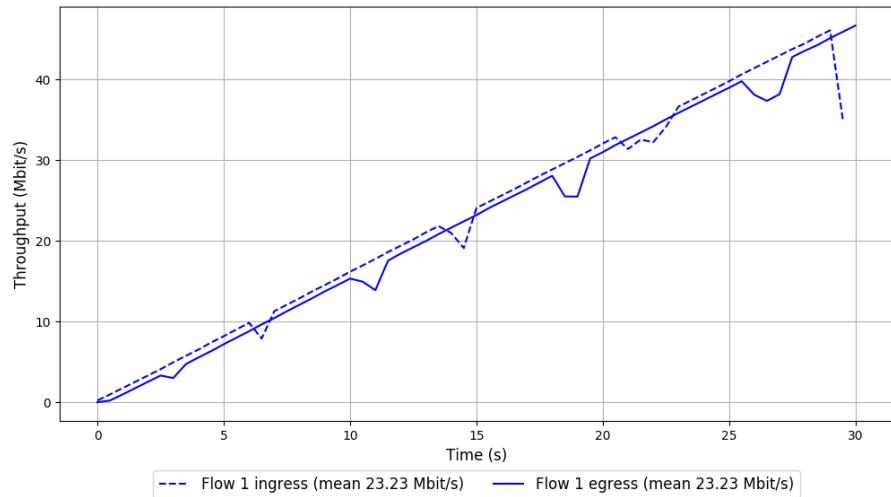


Run 5: Statistics of LEDBAT

```
Start at: 2019-01-25 02:47:54
End at: 2019-01-25 02:48:24
Local clock offset: -0.033 ms
Remote clock offset: -0.69 ms

# Below is generated by plot.py at 2019-01-25 04:34:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.23 Mbit/s
95th percentile per-packet one-way delay: 64.057 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 23.23 Mbit/s
95th percentile per-packet one-way delay: 64.057 ms
Loss rate: 0.00%
```

Run 5: Report of LEDBAT — Data Link

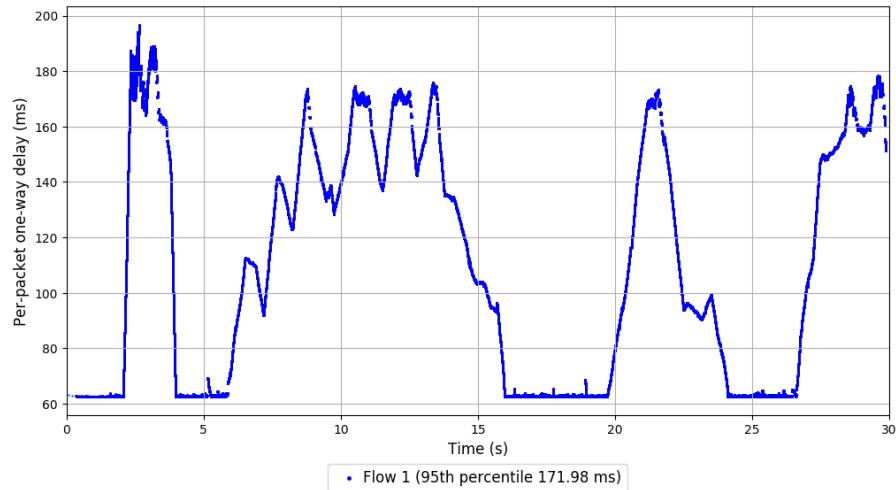
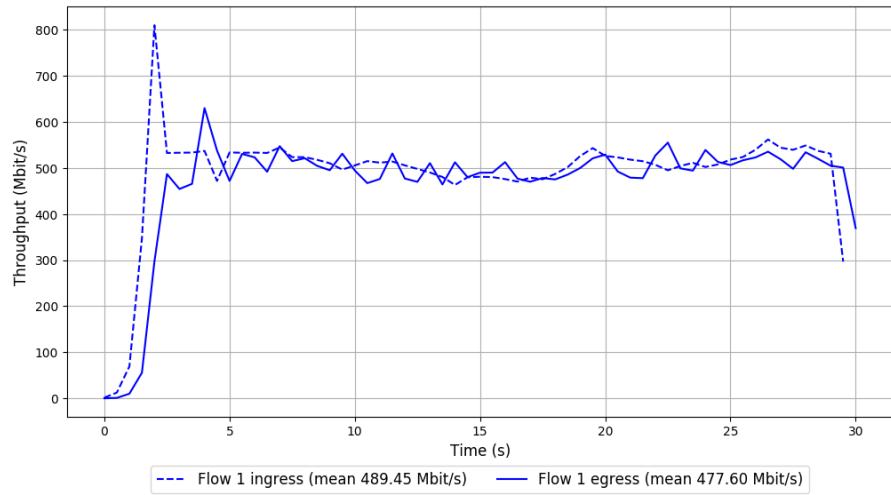


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-01-25 00:40:32
End at: 2019-01-25 00:41:02
Local clock offset: -0.005 ms
Remote clock offset: -0.397 ms

# Below is generated by plot.py at 2019-01-25 04:42:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 477.60 Mbit/s
95th percentile per-packet one-way delay: 171.978 ms
Loss rate: 2.54%
-- Flow 1:
Average throughput: 477.60 Mbit/s
95th percentile per-packet one-way delay: 171.978 ms
Loss rate: 2.54%
```

Run 1: Report of PCC-Allegro — Data Link

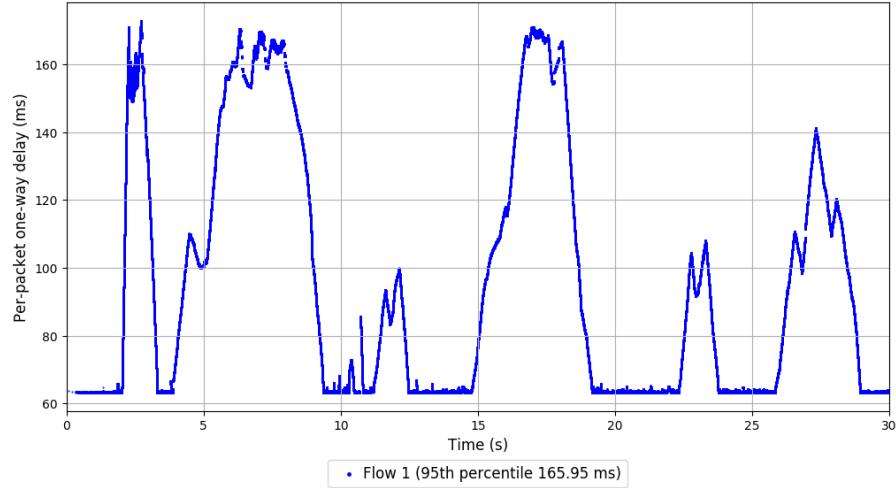
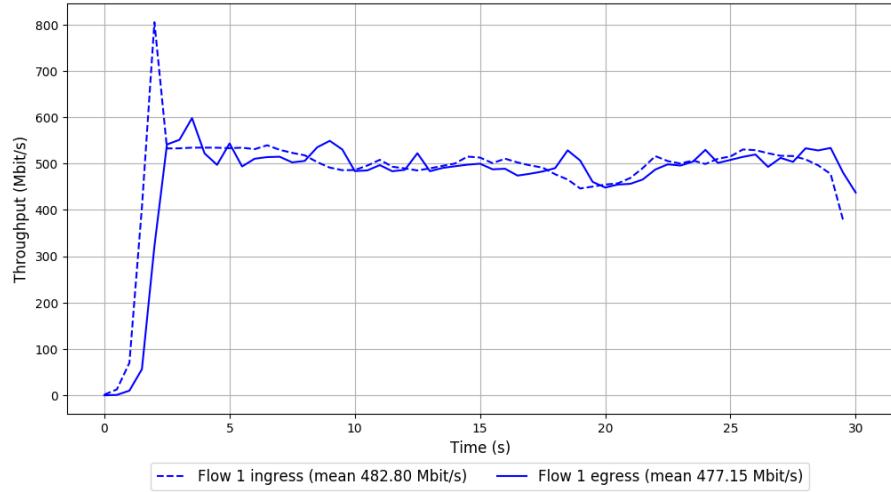


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-01-25 01:11:54
End at: 2019-01-25 01:12:24
Local clock offset: 0.009 ms
Remote clock offset: 0.609 ms

# Below is generated by plot.py at 2019-01-25 04:42:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 477.15 Mbit/s
95th percentile per-packet one-way delay: 165.948 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 477.15 Mbit/s
95th percentile per-packet one-way delay: 165.948 ms
Loss rate: 1.17%
```

Run 2: Report of PCC-Allegro — Data Link

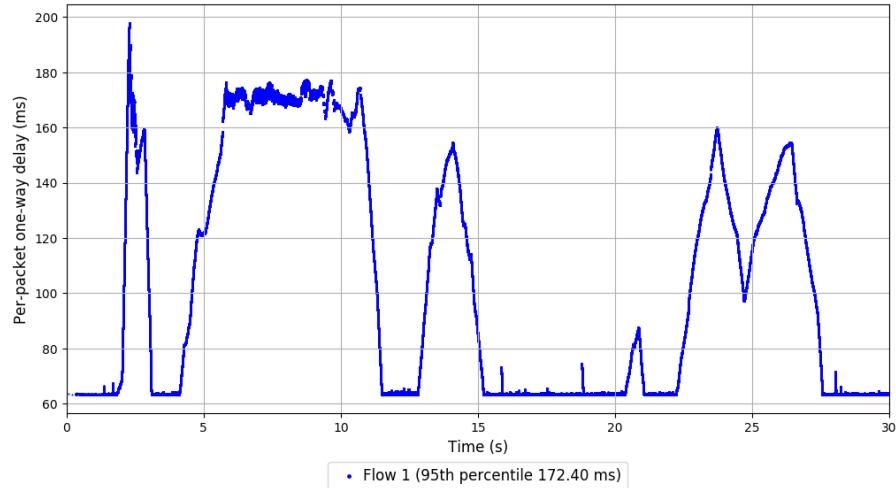
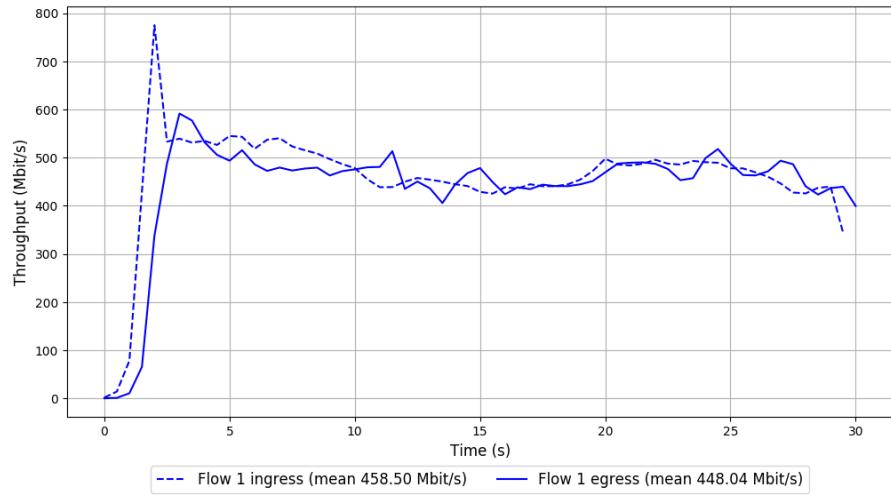


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-01-25 01:43:28
End at: 2019-01-25 01:43:58
Local clock offset: -0.07 ms
Remote clock offset: 0.481 ms

# Below is generated by plot.py at 2019-01-25 04:42:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 448.04 Mbit/s
95th percentile per-packet one-way delay: 172.396 ms
Loss rate: 2.28%
-- Flow 1:
Average throughput: 448.04 Mbit/s
95th percentile per-packet one-way delay: 172.396 ms
Loss rate: 2.28%
```

Run 3: Report of PCC-Allegro — Data Link

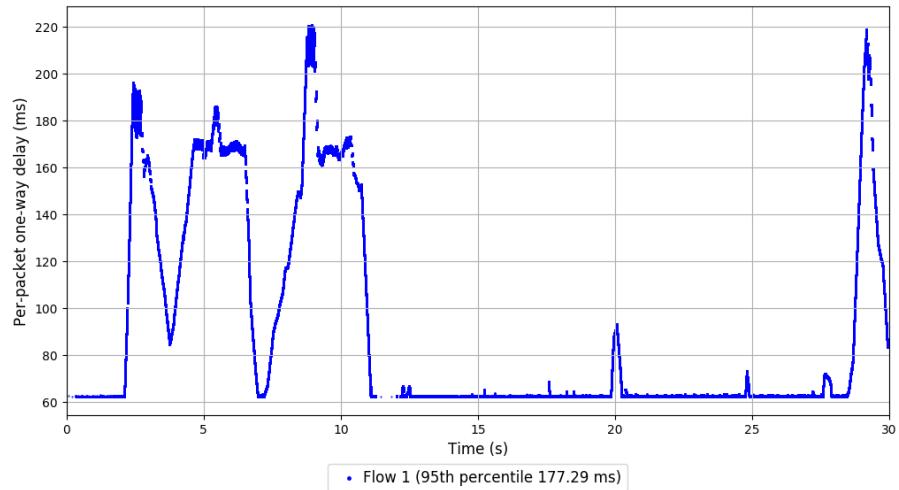
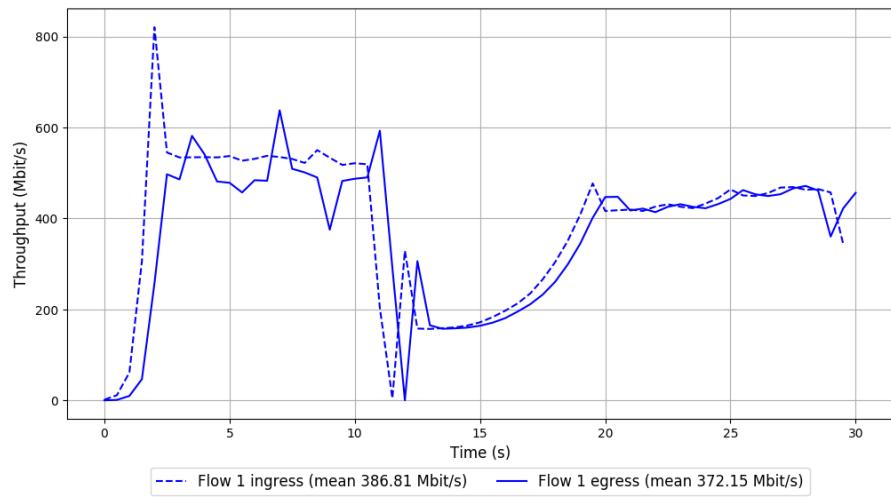


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-01-25 02:14:53
End at: 2019-01-25 02:15:23
Local clock offset: -0.154 ms
Remote clock offset: -0.792 ms

# Below is generated by plot.py at 2019-01-25 04:42:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 372.15 Mbit/s
95th percentile per-packet one-way delay: 177.294 ms
Loss rate: 3.78%
-- Flow 1:
Average throughput: 372.15 Mbit/s
95th percentile per-packet one-way delay: 177.294 ms
Loss rate: 3.78%
```

Run 4: Report of PCC-Allegro — Data Link

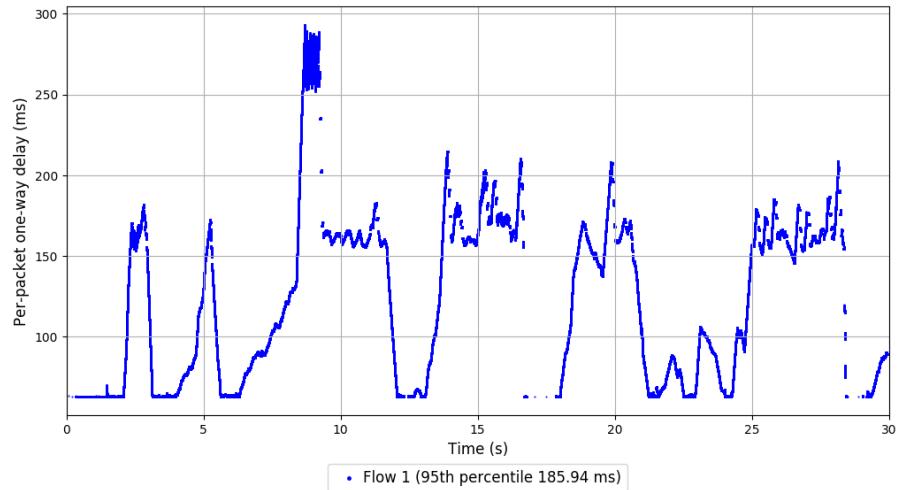
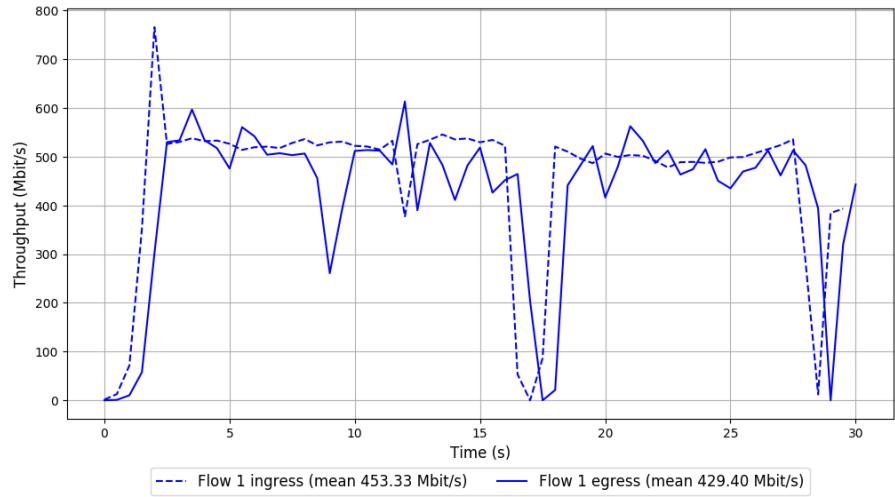


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-01-25 02:46:16
End at: 2019-01-25 02:46:46
Local clock offset: -0.104 ms
Remote clock offset: -0.458 ms

# Below is generated by plot.py at 2019-01-25 04:45:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 429.40 Mbit/s
95th percentile per-packet one-way delay: 185.941 ms
Loss rate: 5.28%
-- Flow 1:
Average throughput: 429.40 Mbit/s
95th percentile per-packet one-way delay: 185.941 ms
Loss rate: 5.28%
```

Run 5: Report of PCC-Allegro — Data Link

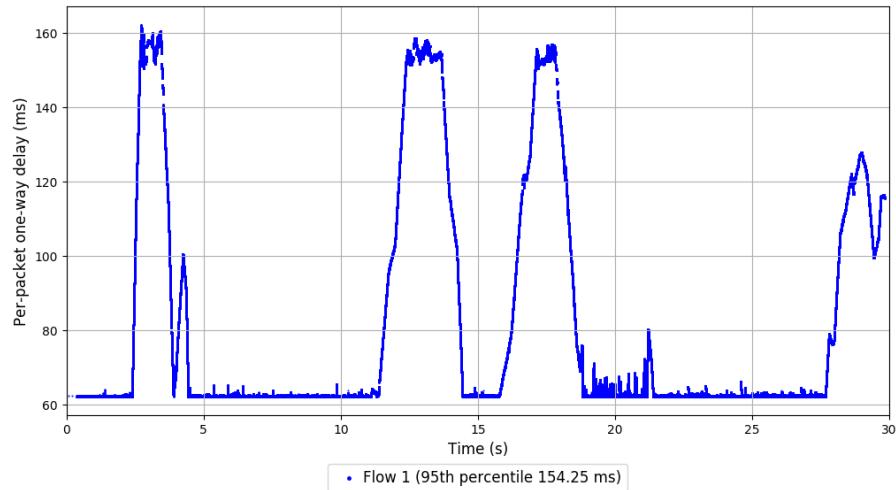
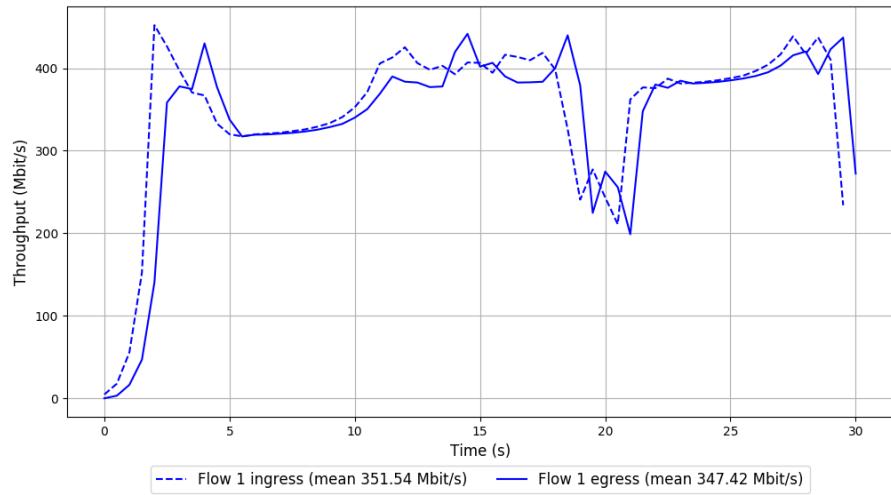


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-01-25 00:32:59
End at: 2019-01-25 00:33:29
Local clock offset: -0.092 ms
Remote clock offset: -0.821 ms

# Below is generated by plot.py at 2019-01-25 04:47:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 347.42 Mbit/s
95th percentile per-packet one-way delay: 154.253 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 347.42 Mbit/s
95th percentile per-packet one-way delay: 154.253 ms
Loss rate: 1.17%
```

Run 1: Report of PCC-Expr — Data Link

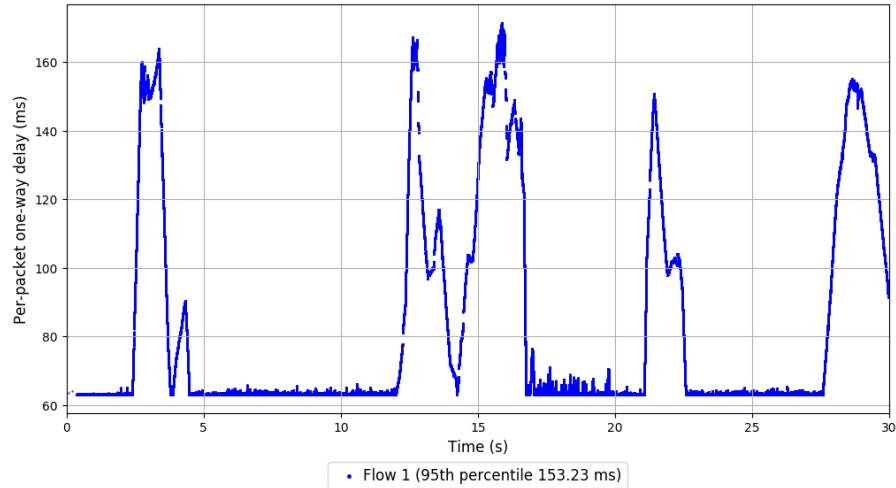
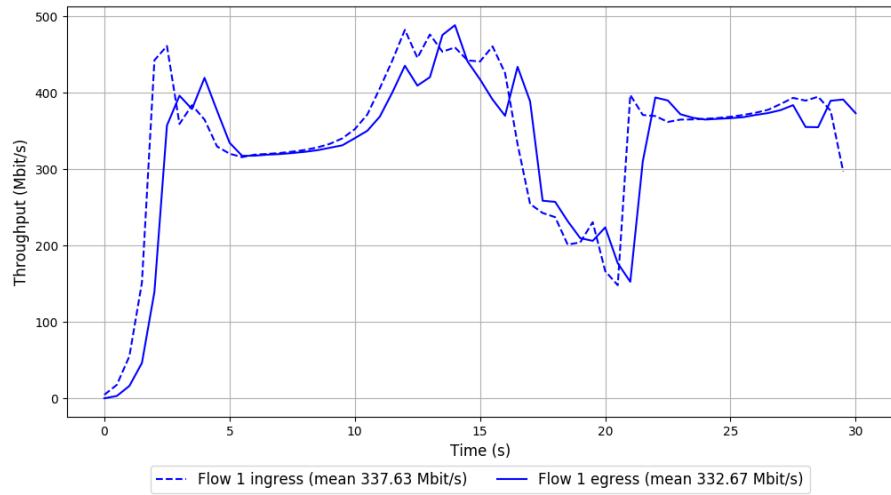


Run 2: Statistics of PCC-Expr

```
Start at: 2019-01-25 01:04:27
End at: 2019-01-25 01:04:57
Local clock offset: -0.074 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2019-01-25 04:47:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 332.67 Mbit/s
95th percentile per-packet one-way delay: 153.233 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 332.67 Mbit/s
95th percentile per-packet one-way delay: 153.233 ms
Loss rate: 1.47%
```

Run 2: Report of PCC-Expr — Data Link

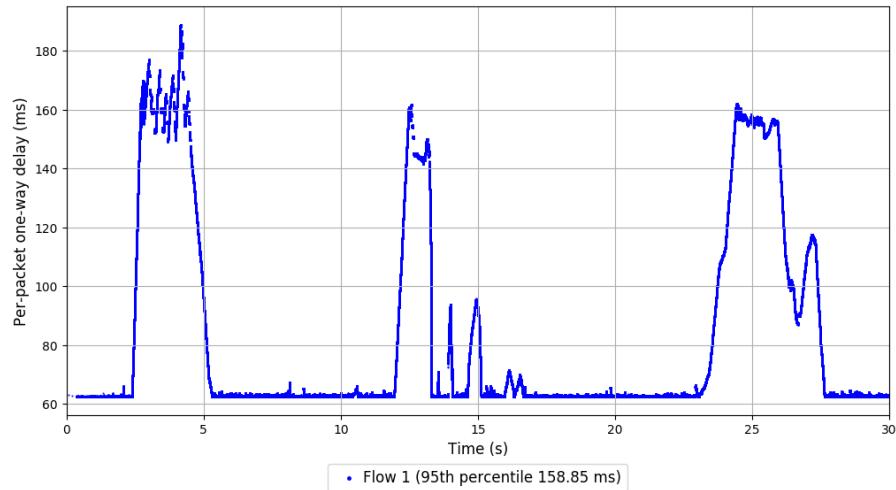
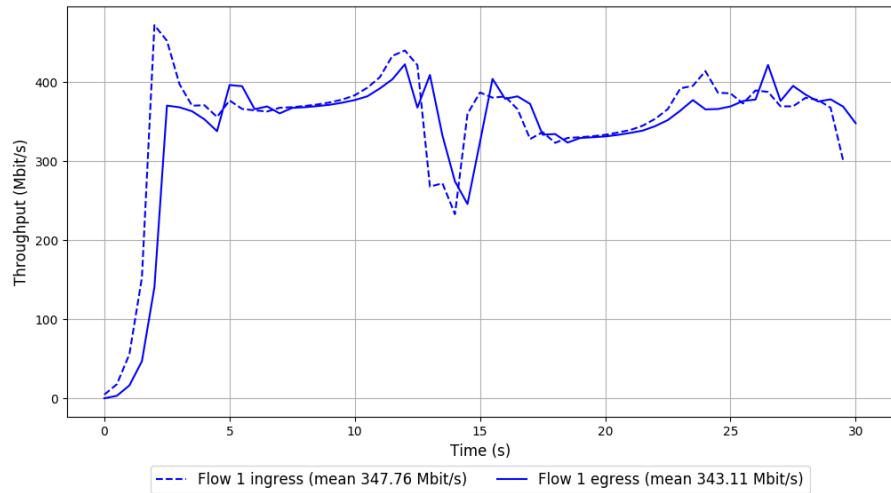


Run 3: Statistics of PCC-Expr

```
Start at: 2019-01-25 01:35:55
End at: 2019-01-25 01:36:25
Local clock offset: 0.036 ms
Remote clock offset: -0.179 ms

# Below is generated by plot.py at 2019-01-25 04:47:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 343.11 Mbit/s
95th percentile per-packet one-way delay: 158.854 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 343.11 Mbit/s
95th percentile per-packet one-way delay: 158.854 ms
Loss rate: 1.34%
```

Run 3: Report of PCC-Expr — Data Link

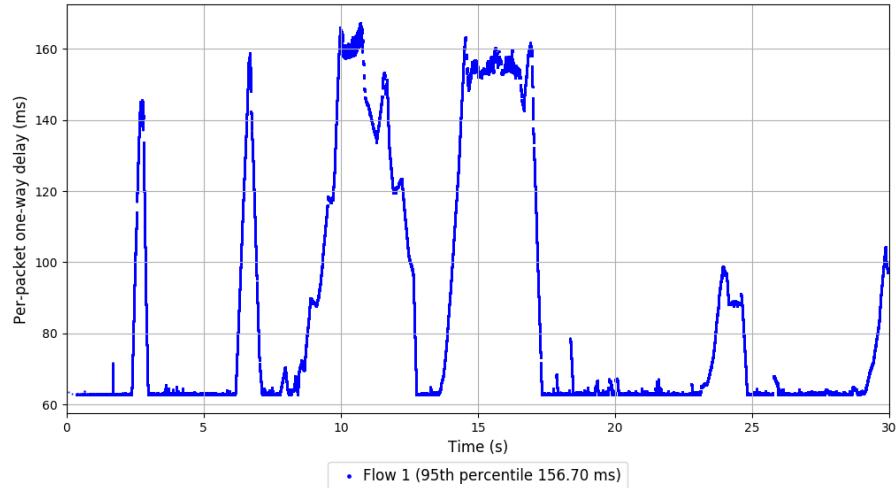
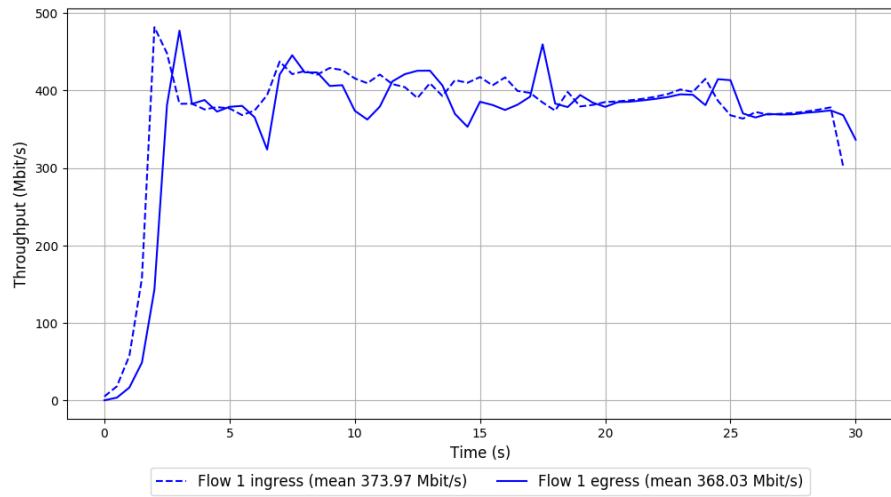


Run 4: Statistics of PCC-Expr

```
Start at: 2019-01-25 02:07:22
End at: 2019-01-25 02:07:52
Local clock offset: -0.19 ms
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2019-01-25 04:55:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 368.03 Mbit/s
95th percentile per-packet one-way delay: 156.701 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 368.03 Mbit/s
95th percentile per-packet one-way delay: 156.701 ms
Loss rate: 1.59%
```

Run 4: Report of PCC-Expr — Data Link

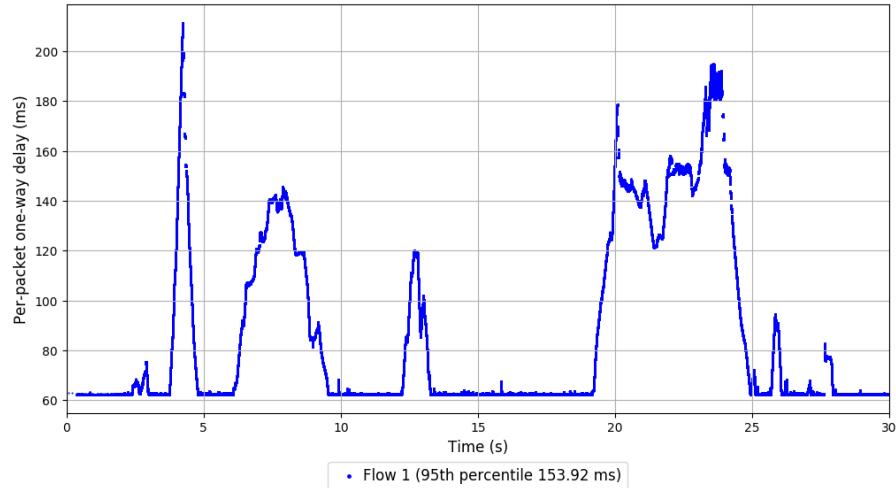
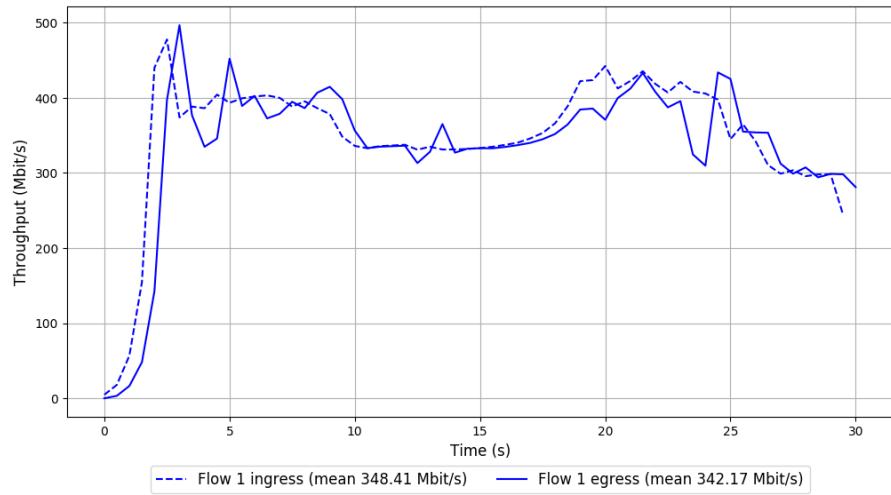


Run 5: Statistics of PCC-Expr

```
Start at: 2019-01-25 02:38:37
End at: 2019-01-25 02:39:07
Local clock offset: -0.136 ms
Remote clock offset: -0.794 ms

# Below is generated by plot.py at 2019-01-25 04:55:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 342.17 Mbit/s
95th percentile per-packet one-way delay: 153.916 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 342.17 Mbit/s
95th percentile per-packet one-way delay: 153.916 ms
Loss rate: 1.79%
```

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

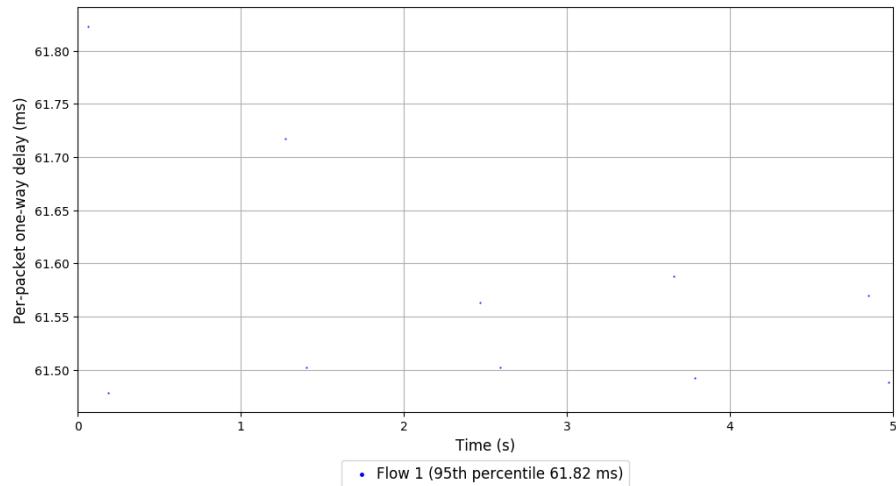
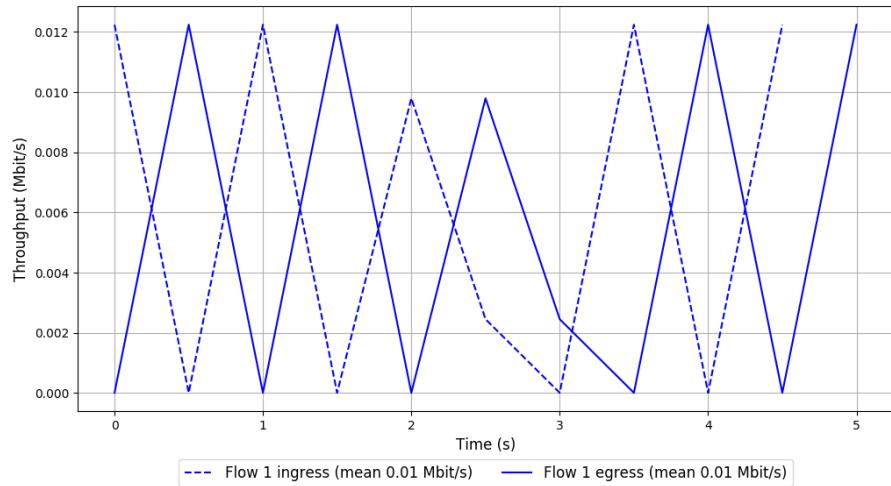
Start at: 2019-01-25 00:23:59

End at: 2019-01-25 00:24:29

Local clock offset: -0.138 ms

Remote clock offset: -1.419 ms

Run 1: Report of QUIC Cubic — Data Link

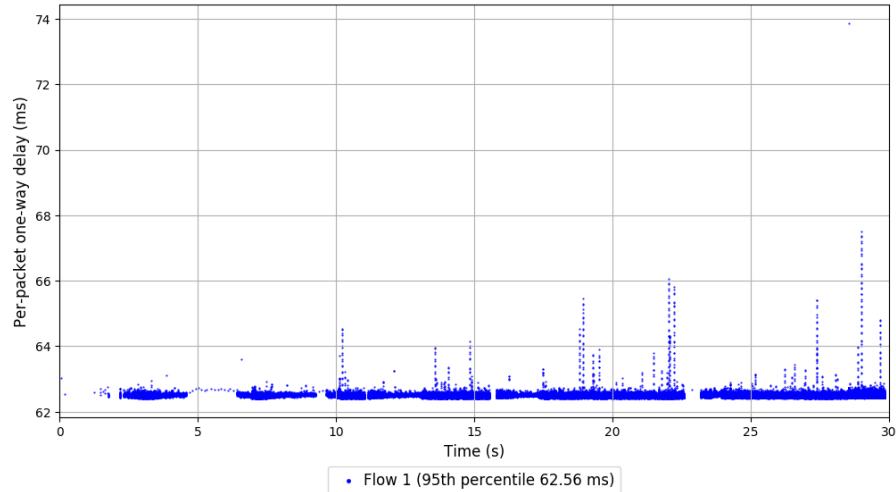
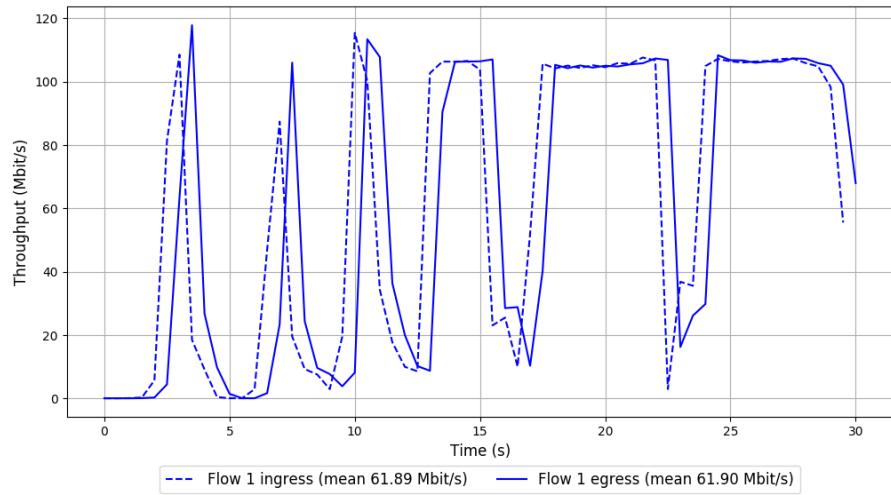


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-01-25 00:55:25
End at: 2019-01-25 00:55:56
Local clock offset: -0.103 ms
Remote clock offset: -0.335 ms

# Below is generated by plot.py at 2019-01-25 04:55:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.90 Mbit/s
95th percentile per-packet one-way delay: 62.559 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.90 Mbit/s
95th percentile per-packet one-way delay: 62.559 ms
Loss rate: 0.00%
```

Run 2: Report of QUIC Cubic — Data Link

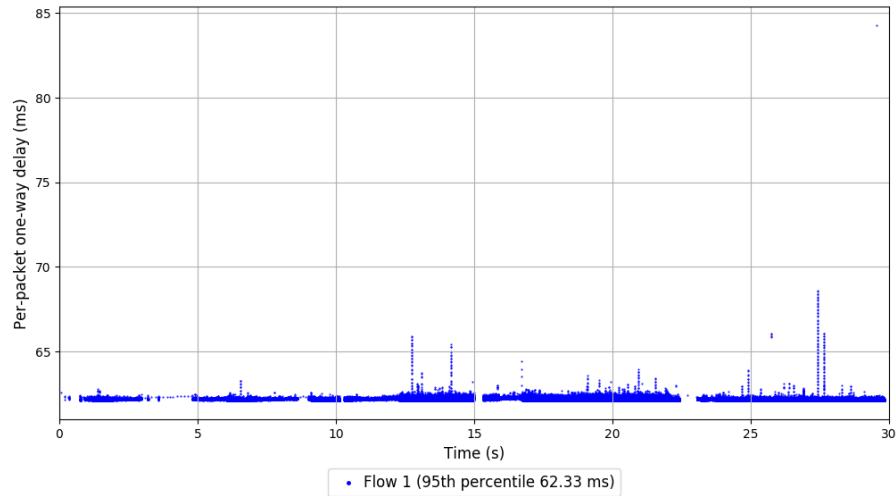
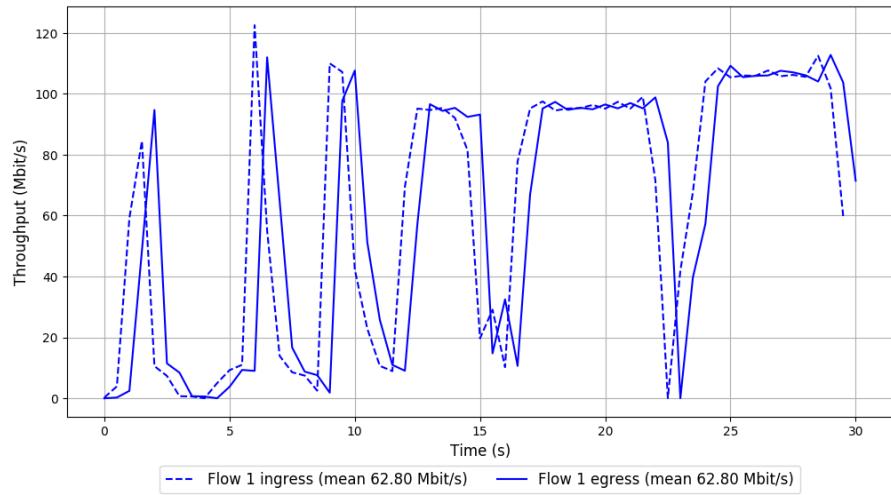


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-01-25 01:26:47
End at: 2019-01-25 01:27:17
Local clock offset: 0.032 ms
Remote clock offset: -0.724 ms

# Below is generated by plot.py at 2019-01-25 04:55:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.80 Mbit/s
95th percentile per-packet one-way delay: 62.329 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 62.80 Mbit/s
95th percentile per-packet one-way delay: 62.329 ms
Loss rate: 0.00%
```

Run 3: Report of QUIC Cubic — Data Link

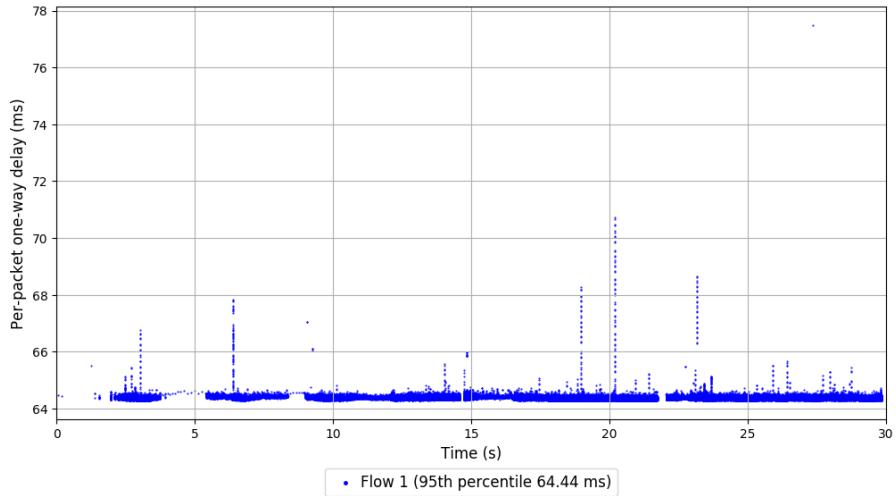
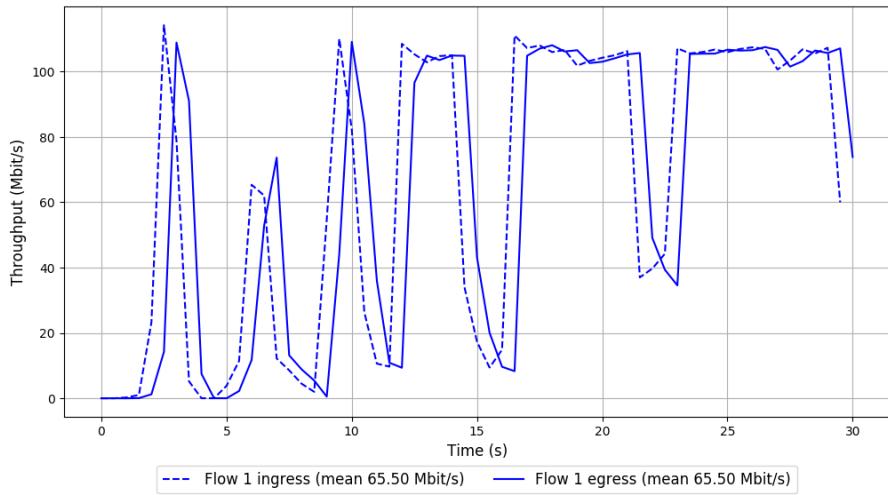


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-01-25 01:58:15
End at: 2019-01-25 01:58:45
Local clock offset: -0.154 ms
Remote clock offset: 1.159 ms

# Below is generated by plot.py at 2019-01-25 04:55:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.50 Mbit/s
95th percentile per-packet one-way delay: 64.444 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 65.50 Mbit/s
95th percentile per-packet one-way delay: 64.444 ms
Loss rate: 0.00%
```

Run 4: Report of QUIC Cubic — Data Link

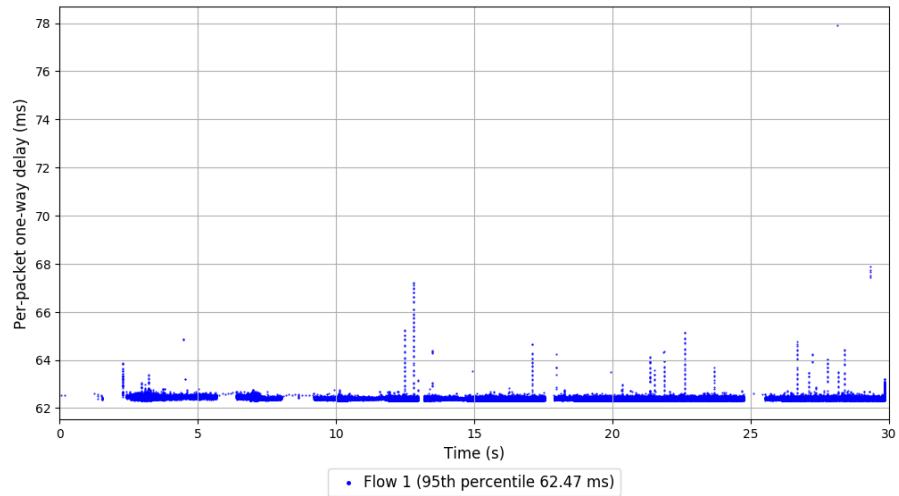
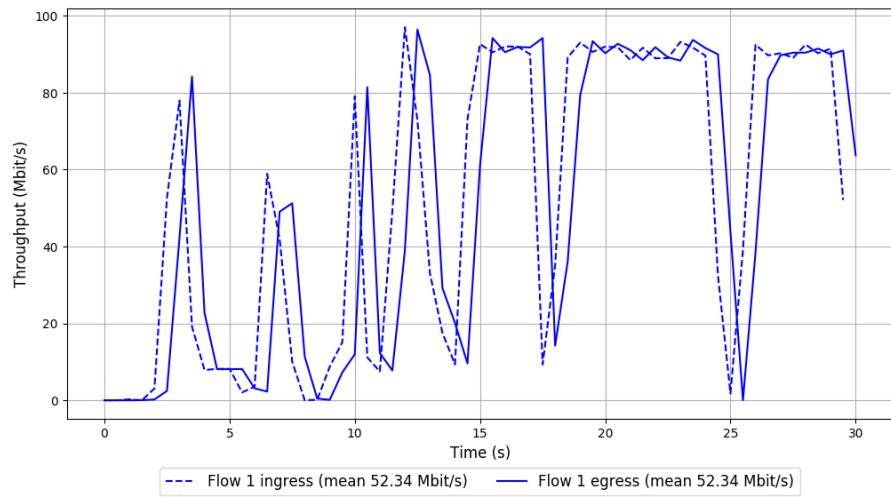


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-01-25 02:29:29
End at: 2019-01-25 02:29:59
Local clock offset: -0.165 ms
Remote clock offset: -0.797 ms

# Below is generated by plot.py at 2019-01-25 04:55:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.34 Mbit/s
95th percentile per-packet one-way delay: 62.468 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 52.34 Mbit/s
95th percentile per-packet one-way delay: 62.468 ms
Loss rate: 0.00%
```

Run 5: Report of QUIC Cubic — Data Link

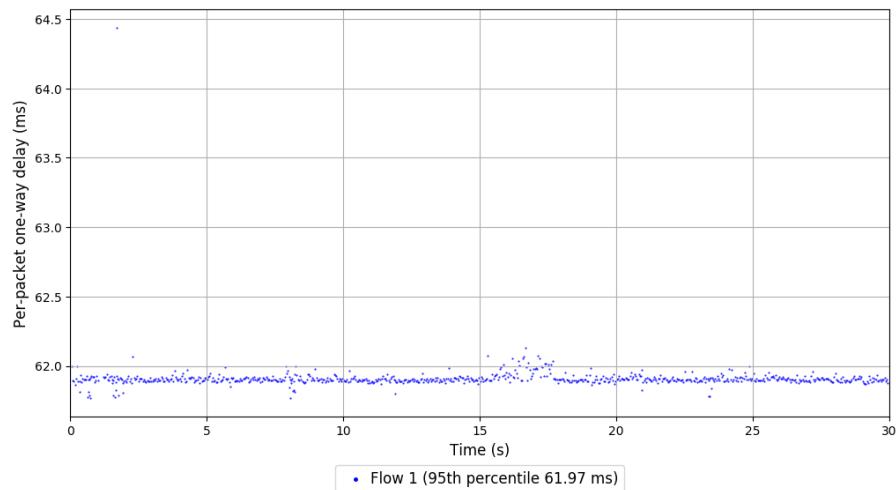
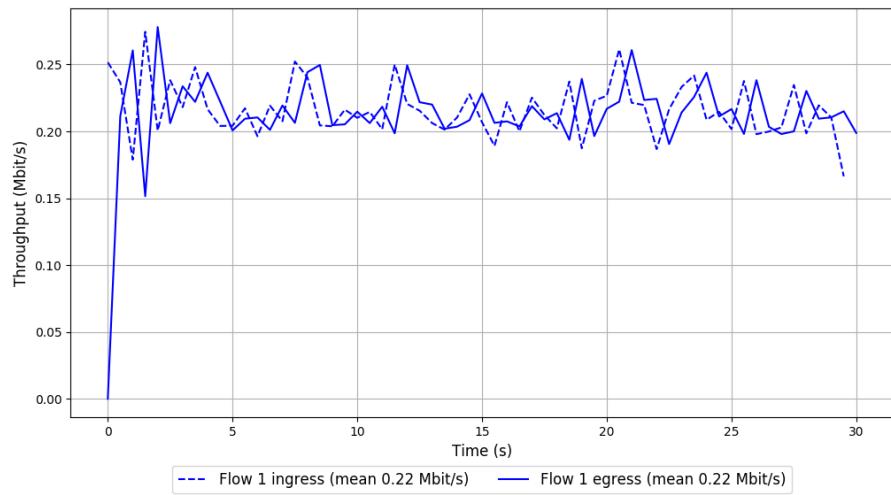


Run 1: Statistics of SCReAM

```
Start at: 2019-01-25 00:48:15
End at: 2019-01-25 00:48:45
Local clock offset: -0.082 ms
Remote clock offset: -1.427 ms

# Below is generated by plot.py at 2019-01-25 04:55:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.974 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.974 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

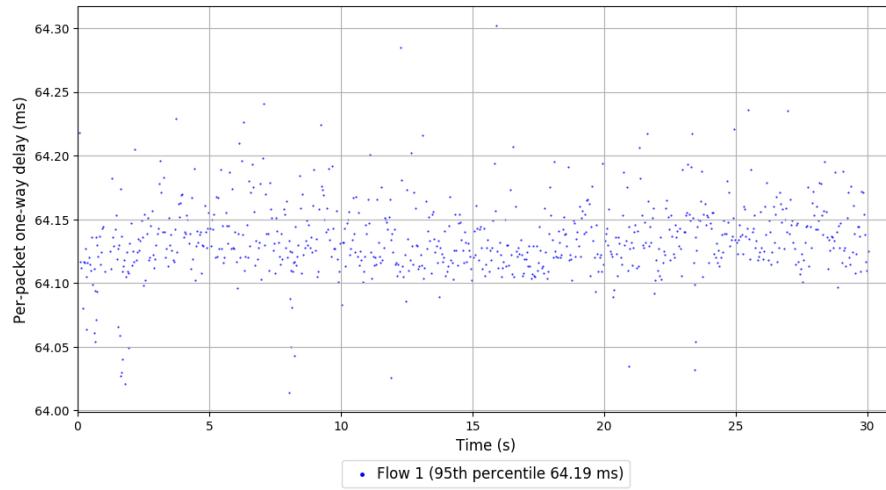
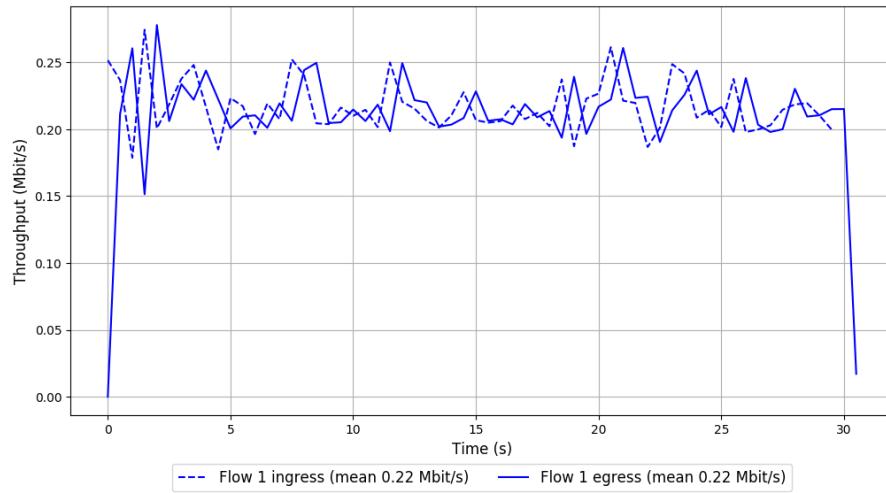


Run 2: Statistics of SCReAM

```
Start at: 2019-01-25 01:19:37
End at: 2019-01-25 01:20:07
Local clock offset: 0.023 ms
Remote clock offset: 1.159 ms

# Below is generated by plot.py at 2019-01-25 04:55:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.188 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.188 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

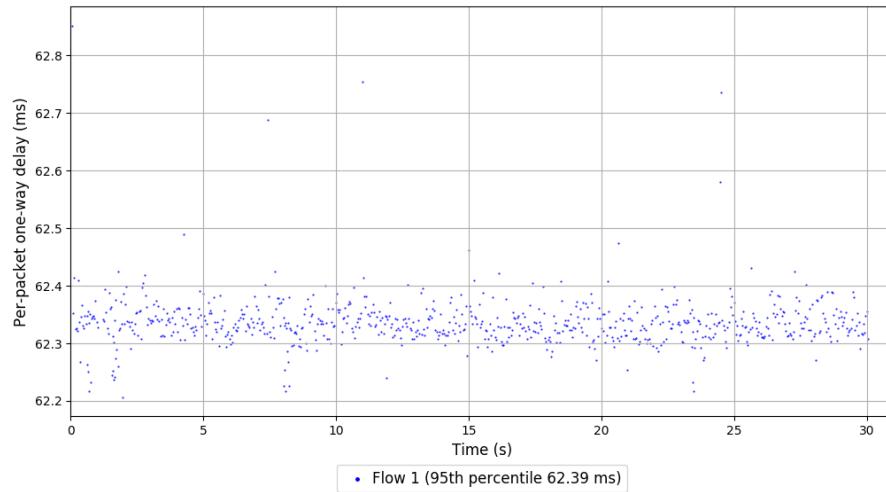
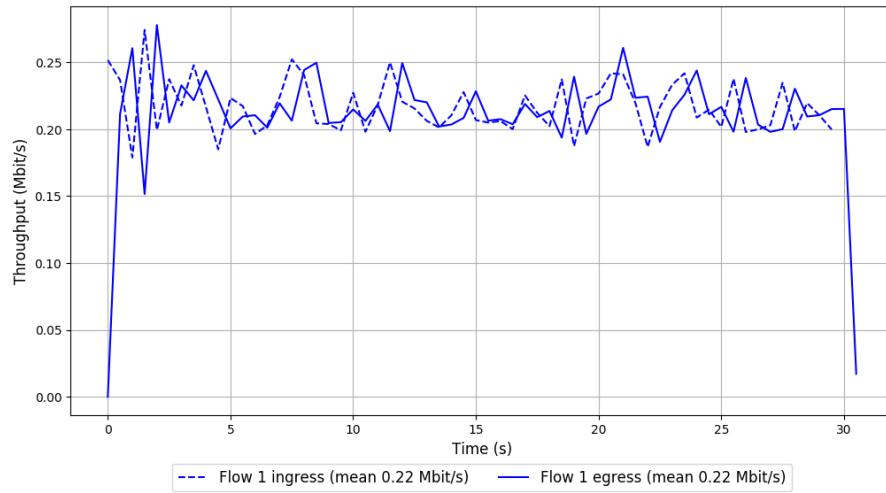


Run 3: Statistics of SCReAM

```
Start at: 2019-01-25 01:51:09
End at: 2019-01-25 01:51:39
Local clock offset: -0.026 ms
Remote clock offset: -0.535 ms

# Below is generated by plot.py at 2019-01-25 04:55:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.389 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.389 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

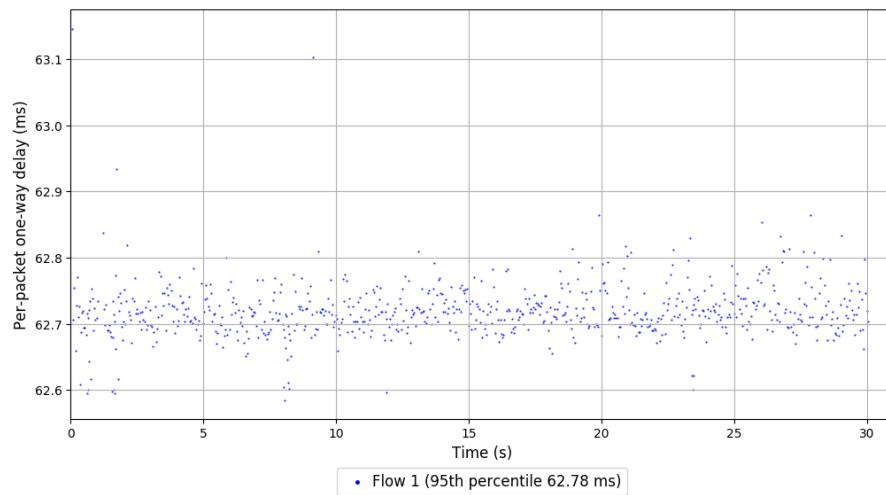
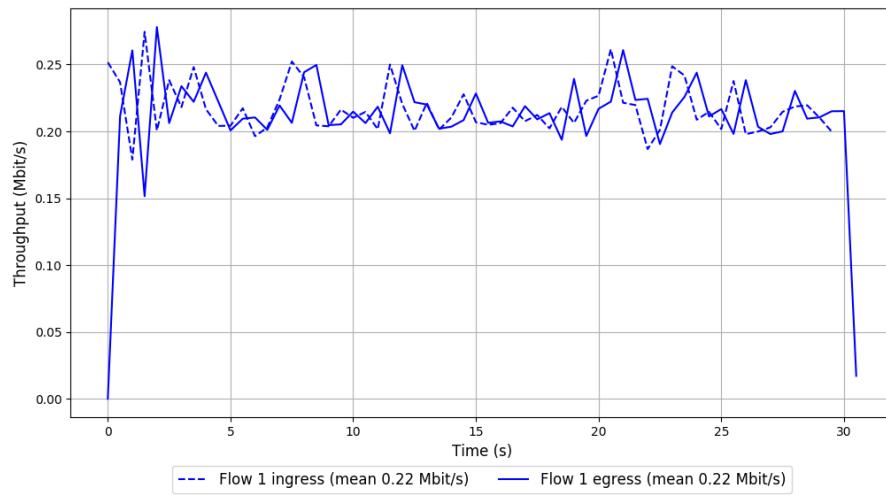


Run 4: Statistics of SCReAM

```
Start at: 2019-01-25 02:22:20
End at: 2019-01-25 02:22:50
Local clock offset: 0.013 ms
Remote clock offset: -0.212 ms

# Below is generated by plot.py at 2019-01-25 04:55:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.784 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.784 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

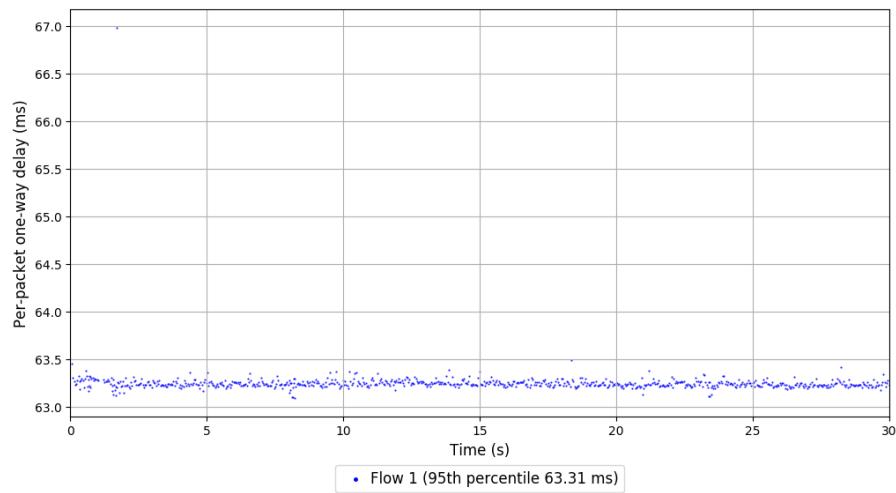
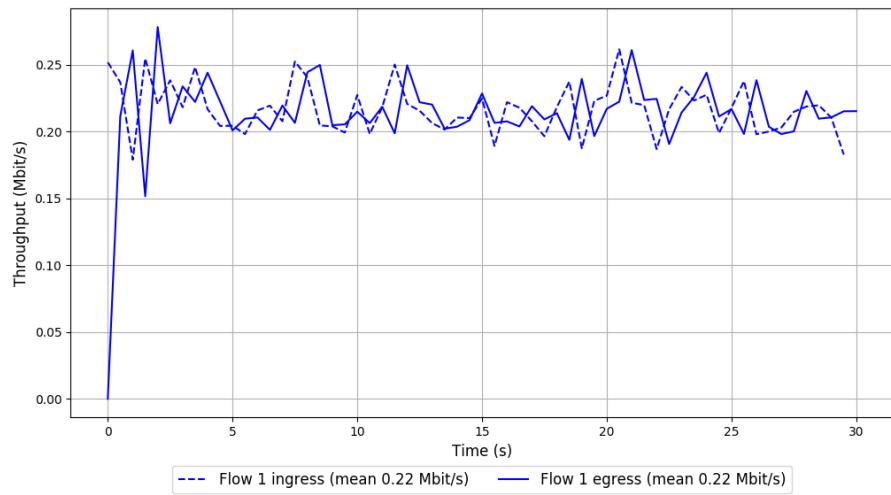


Run 5: Statistics of SCReAM

```
Start at: 2019-01-25 02:53:52
End at: 2019-01-25 02:54:22
Local clock offset: -0.033 ms
Remote clock offset: -0.177 ms

# Below is generated by plot.py at 2019-01-25 04:55:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.313 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.313 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

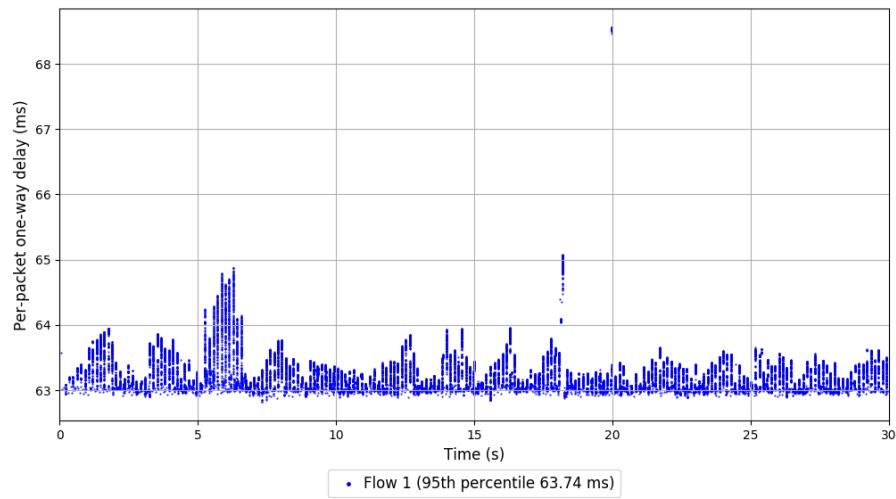
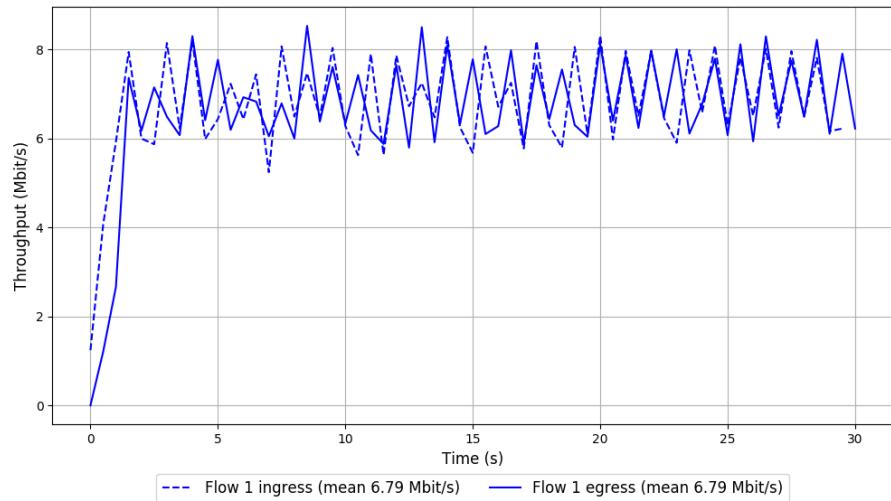


Run 1: Statistics of Sprout

```
Start at: 2019-01-25 00:38:02
End at: 2019-01-25 00:38:32
Local clock offset: -0.041 ms
Remote clock offset: -0.155 ms

# Below is generated by plot.py at 2019-01-25 04:55:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.79 Mbit/s
95th percentile per-packet one-way delay: 63.737 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.79 Mbit/s
95th percentile per-packet one-way delay: 63.737 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

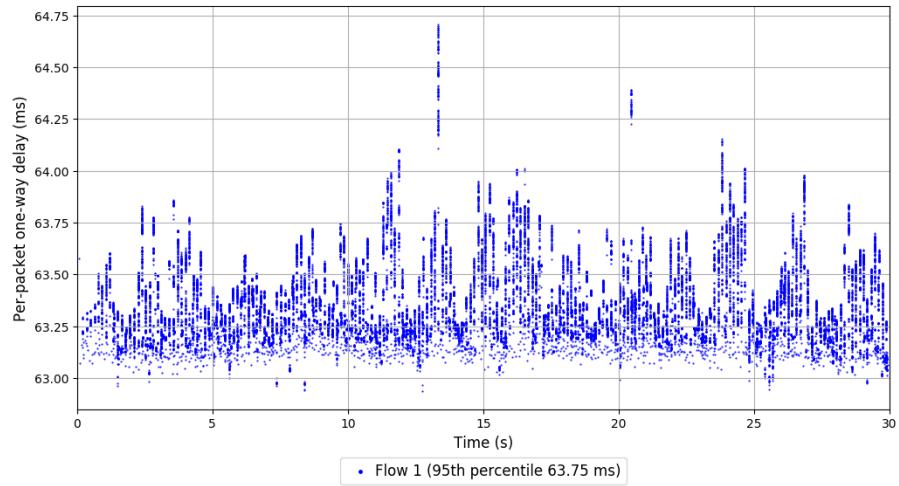
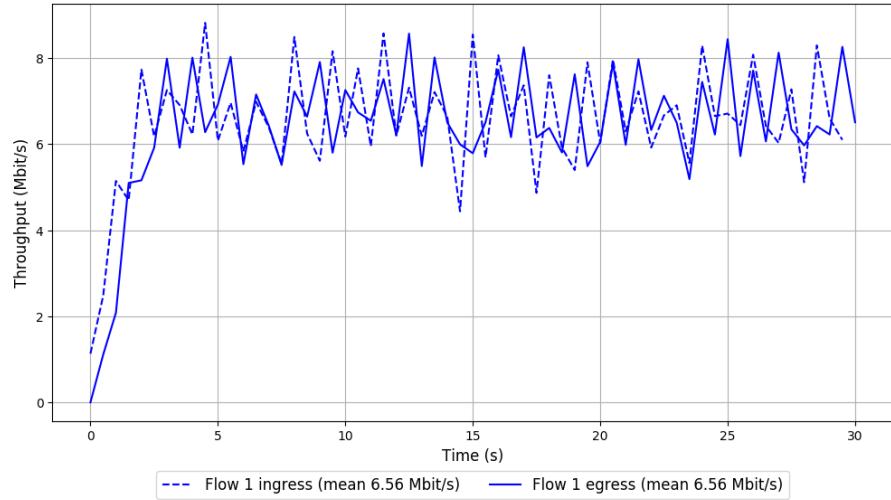


Run 2: Statistics of Sprout

```
Start at: 2019-01-25 01:09:23
End at: 2019-01-25 01:09:53
Local clock offset: 0.038 ms
Remote clock offset: 0.029 ms

# Below is generated by plot.py at 2019-01-25 04:55:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.56 Mbit/s
95th percentile per-packet one-way delay: 63.752 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.56 Mbit/s
95th percentile per-packet one-way delay: 63.752 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

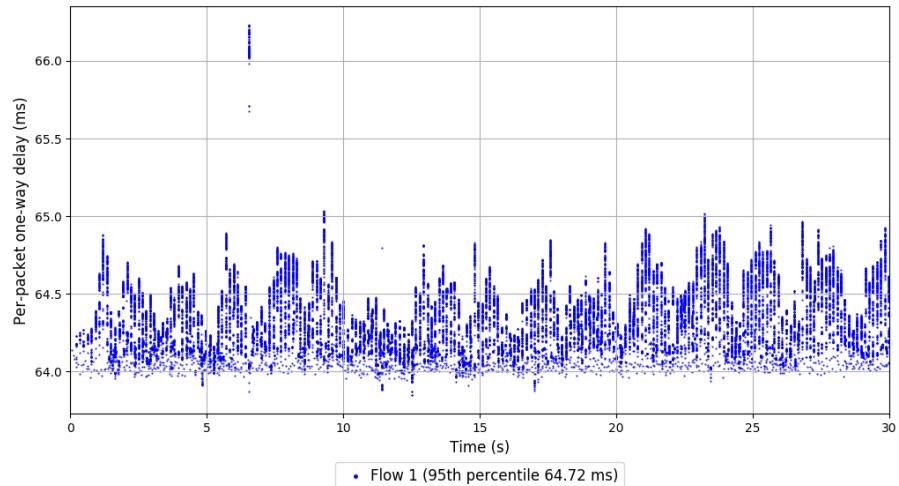
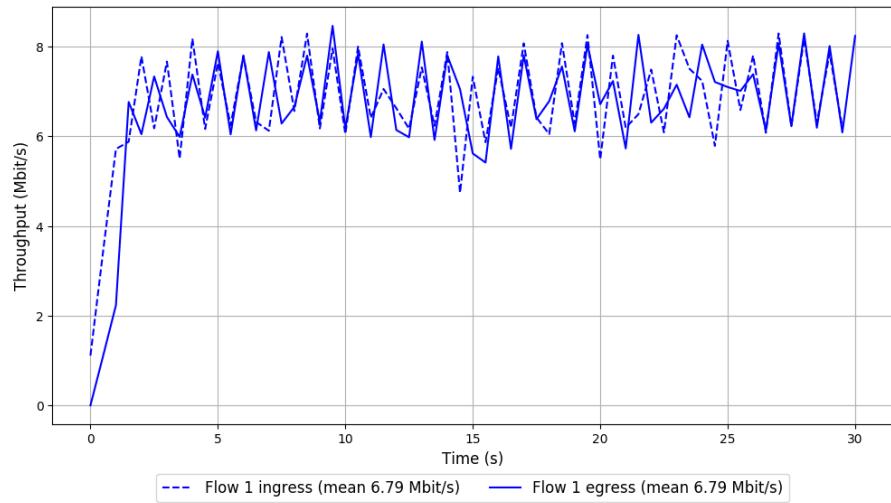


Run 3: Statistics of Sprout

```
Start at: 2019-01-25 01:40:55
End at: 2019-01-25 01:41:25
Local clock offset: -0.107 ms
Remote clock offset: 0.788 ms

# Below is generated by plot.py at 2019-01-25 04:55:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.79 Mbit/s
95th percentile per-packet one-way delay: 64.718 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.79 Mbit/s
95th percentile per-packet one-way delay: 64.718 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

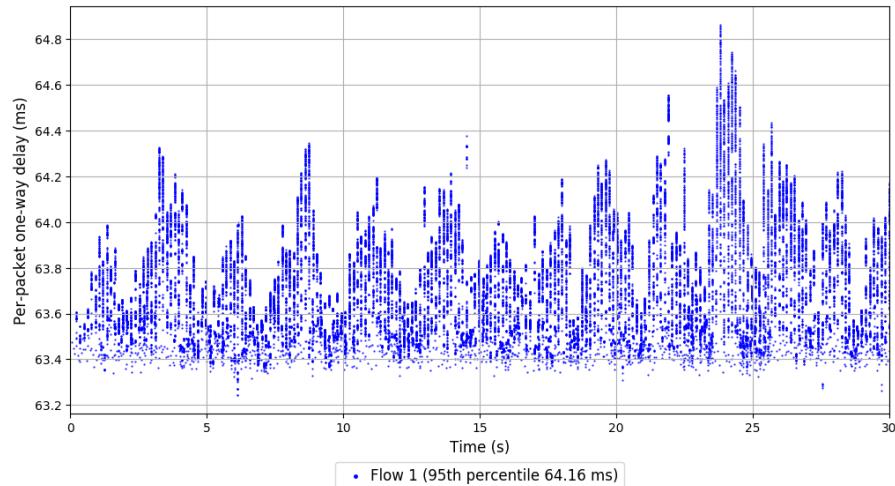
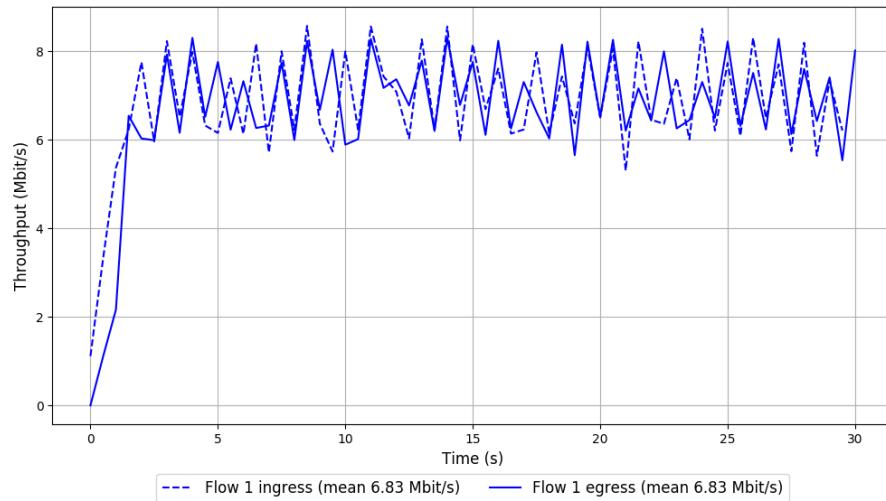


Run 4: Statistics of Sprout

```
Start at: 2019-01-25 02:12:23
End at: 2019-01-25 02:12:53
Local clock offset: -0.16 ms
Remote clock offset: 0.394 ms

# Below is generated by plot.py at 2019-01-25 04:55:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.83 Mbit/s
95th percentile per-packet one-way delay: 64.156 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.83 Mbit/s
95th percentile per-packet one-way delay: 64.156 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

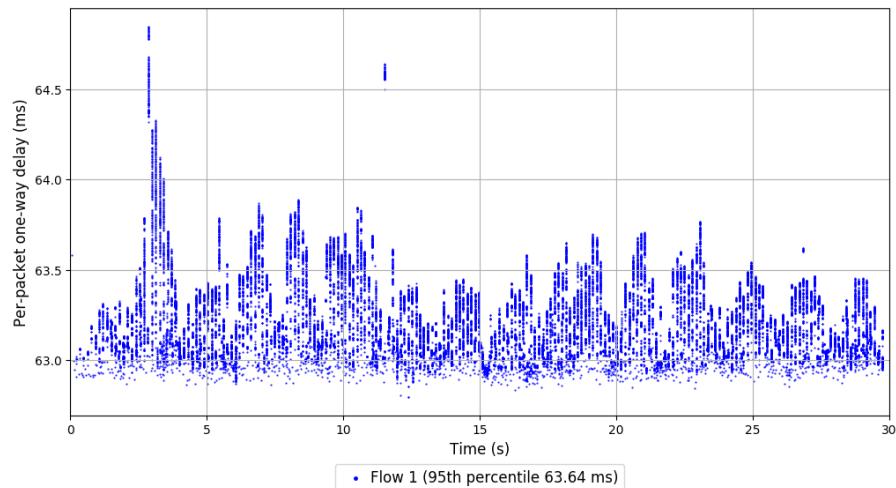
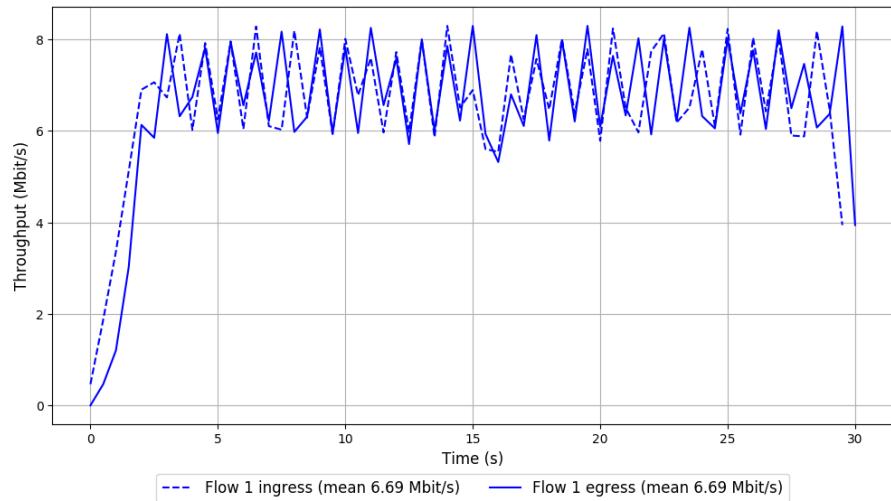


Run 5: Statistics of Sprout

```
Start at: 2019-01-25 02:43:37
End at: 2019-01-25 02:44:07
Local clock offset: -0.13 ms
Remote clock offset: -0.166 ms

# Below is generated by plot.py at 2019-01-25 04:55:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.69 Mbit/s
95th percentile per-packet one-way delay: 63.639 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.69 Mbit/s
95th percentile per-packet one-way delay: 63.639 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

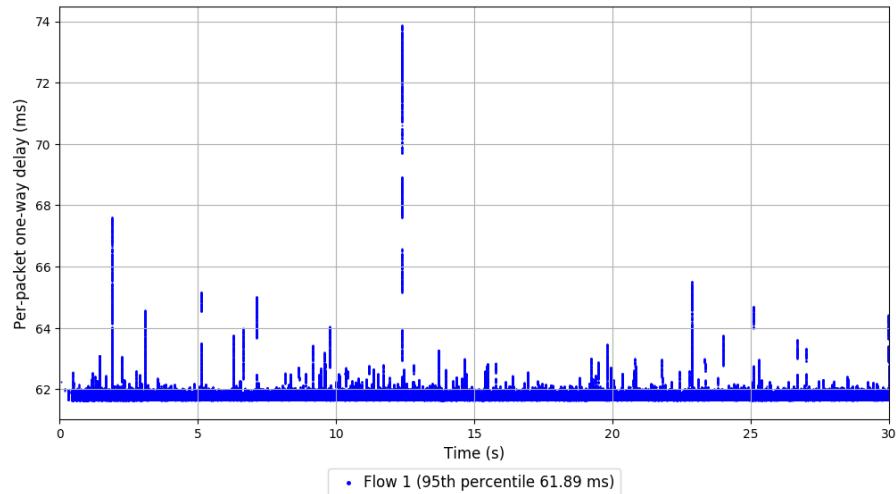
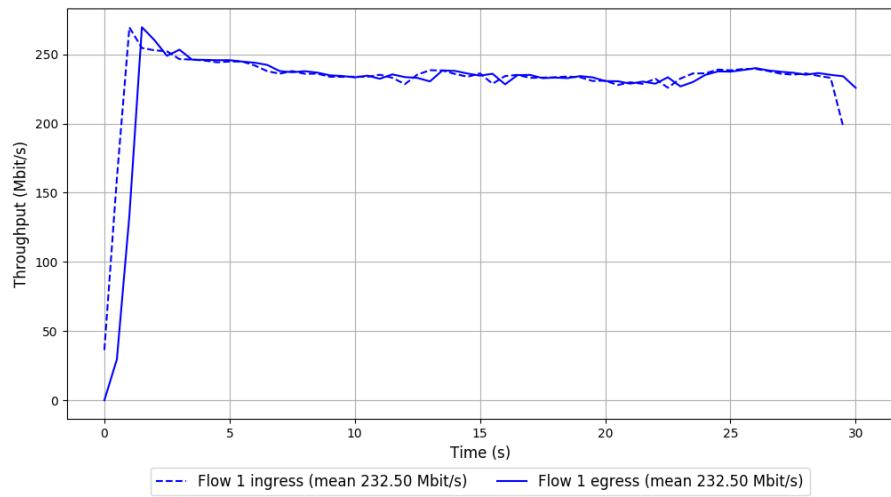


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-01-25 00:25:07
End at: 2019-01-25 00:25:37
Local clock offset: -0.083 ms
Remote clock offset: -1.427 ms

# Below is generated by plot.py at 2019-01-25 04:55:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 232.50 Mbit/s
95th percentile per-packet one-way delay: 61.887 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 232.50 Mbit/s
95th percentile per-packet one-way delay: 61.887 ms
Loss rate: 0.00%
```

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

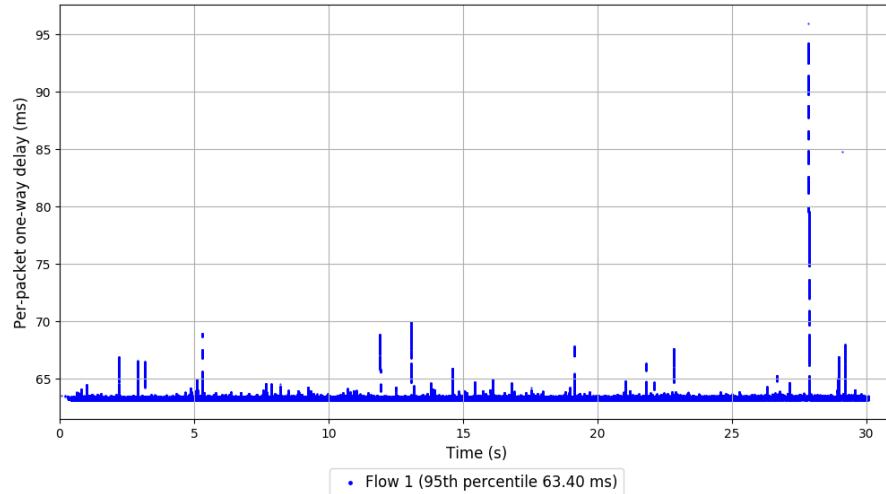
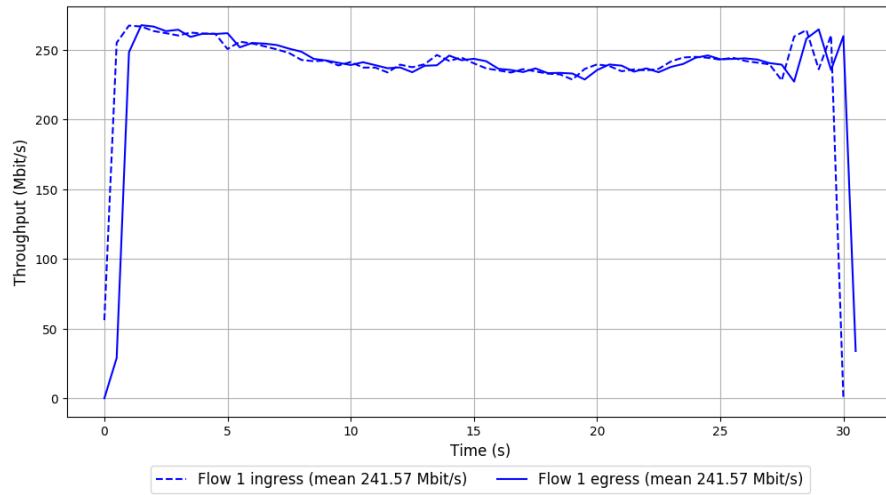


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-01-25 00:56:37
End at: 2019-01-25 00:57:07
Local clock offset: -0.076 ms
Remote clock offset: 0.077 ms

# Below is generated by plot.py at 2019-01-25 04:55:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 241.57 Mbit/s
95th percentile per-packet one-way delay: 63.403 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 241.57 Mbit/s
95th percentile per-packet one-way delay: 63.403 ms
Loss rate: 0.00%
```

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

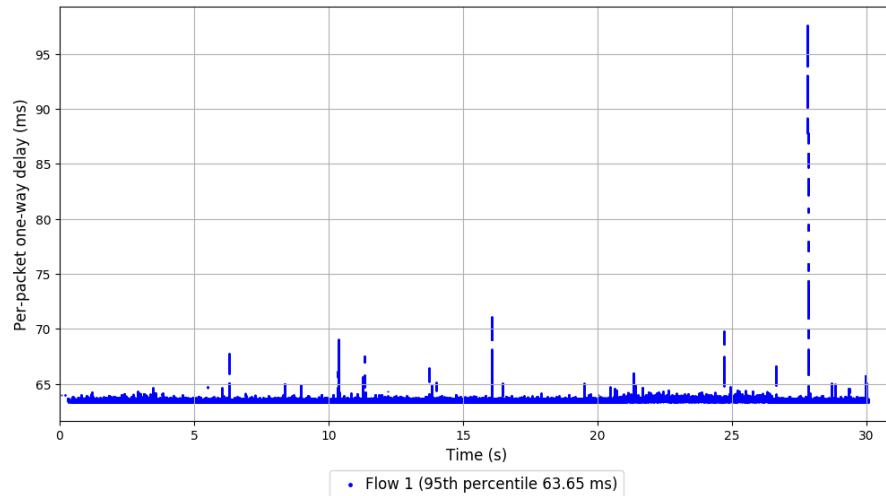
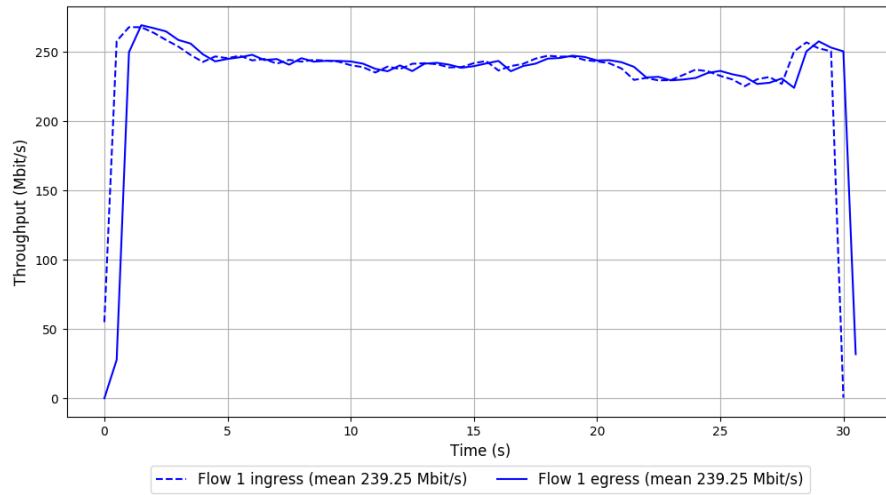


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-01-25 01:27:59
End at: 2019-01-25 01:28:29
Local clock offset: 0.16 ms
Remote clock offset: 0.362 ms

# Below is generated by plot.py at 2019-01-25 04:55:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 239.25 Mbit/s
95th percentile per-packet one-way delay: 63.651 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 239.25 Mbit/s
95th percentile per-packet one-way delay: 63.651 ms
Loss rate: 0.00%
```

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

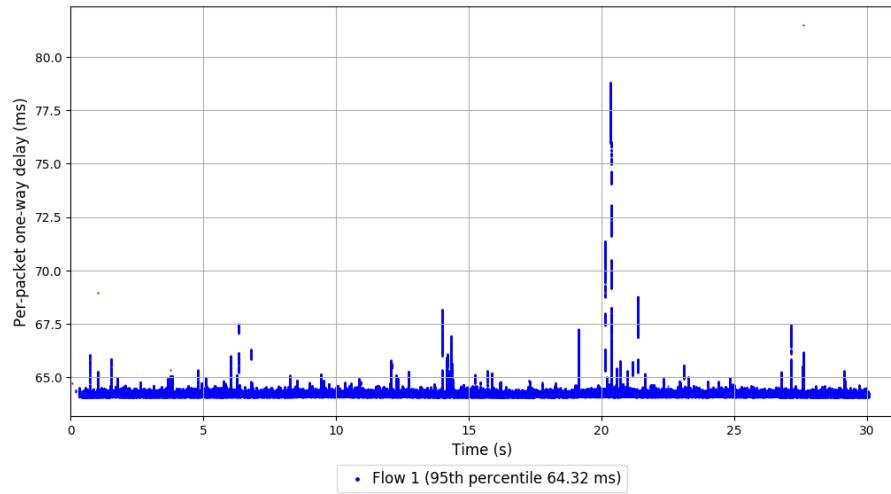
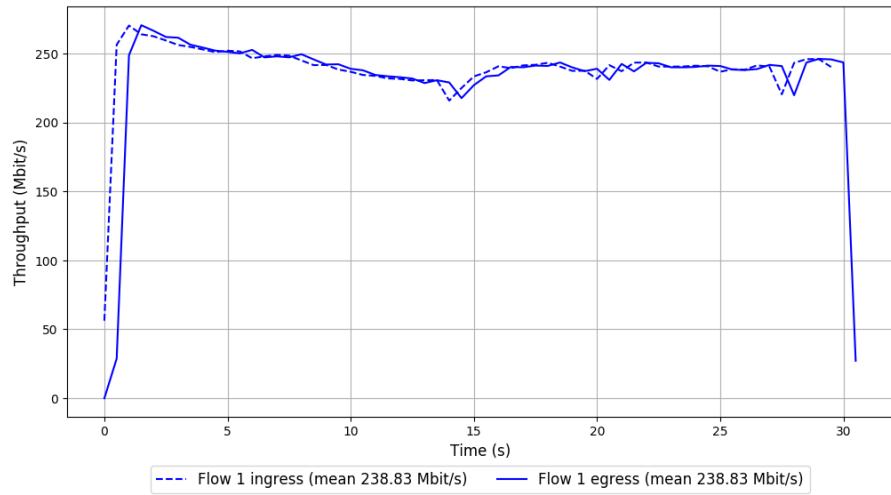


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-01-25 01:59:26
End at: 2019-01-25 01:59:56
Local clock offset: -0.163 ms
Remote clock offset: 1.324 ms

# Below is generated by plot.py at 2019-01-25 04:55:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 238.83 Mbit/s
95th percentile per-packet one-way delay: 64.318 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 238.83 Mbit/s
95th percentile per-packet one-way delay: 64.318 ms
Loss rate: 0.00%
```

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

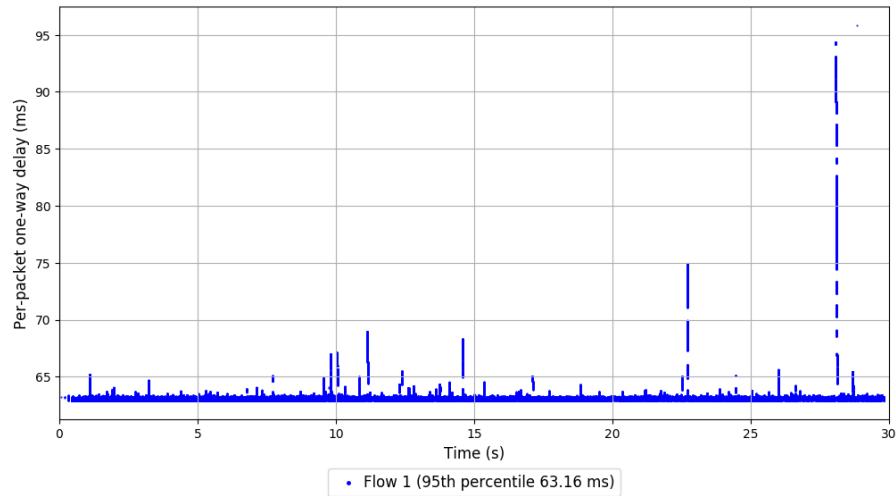
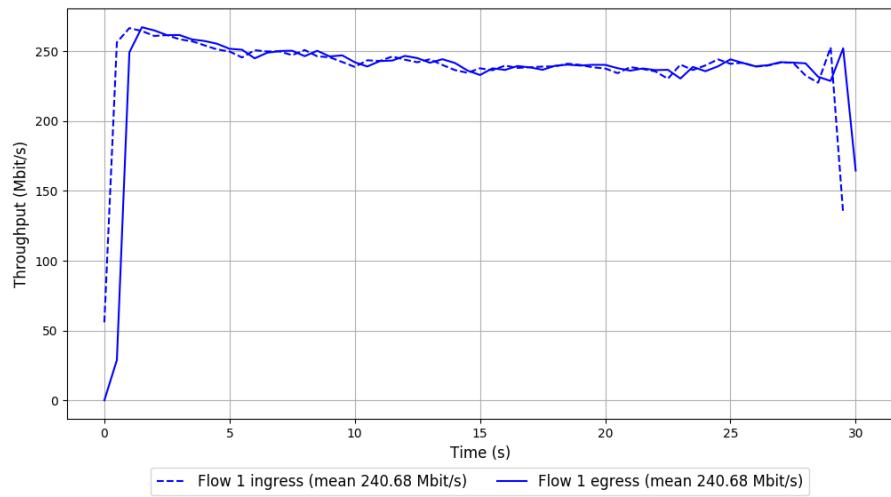


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-01-25 02:30:40
End at: 2019-01-25 02:31:10
Local clock offset: -0.121 ms
Remote clock offset: -0.288 ms

# Below is generated by plot.py at 2019-01-25 04:56:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 240.68 Mbit/s
95th percentile per-packet one-way delay: 63.164 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 240.68 Mbit/s
95th percentile per-packet one-way delay: 63.164 ms
Loss rate: 0.00%
```

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

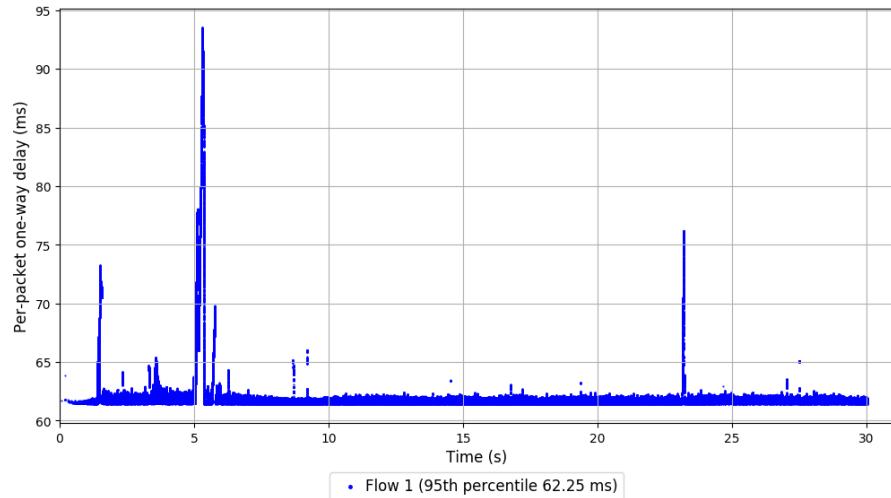
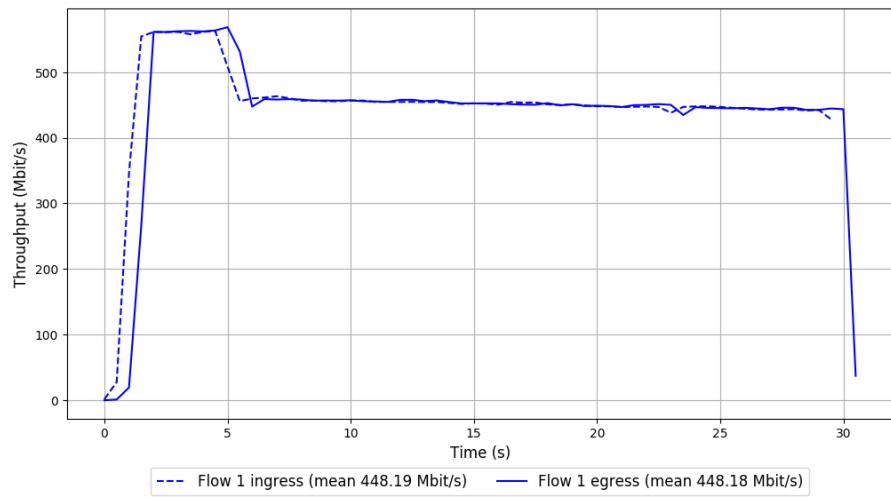


Run 1: Statistics of TCP Vegas

```
Start at: 2019-01-25 00:46:45
End at: 2019-01-25 00:47:15
Local clock offset: -0.159 ms
Remote clock offset: -1.389 ms

# Below is generated by plot.py at 2019-01-25 04:56:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 448.18 Mbit/s
95th percentile per-packet one-way delay: 62.249 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 448.18 Mbit/s
95th percentile per-packet one-way delay: 62.249 ms
Loss rate: 0.00%
```

Run 1: Report of TCP Vegas — Data Link

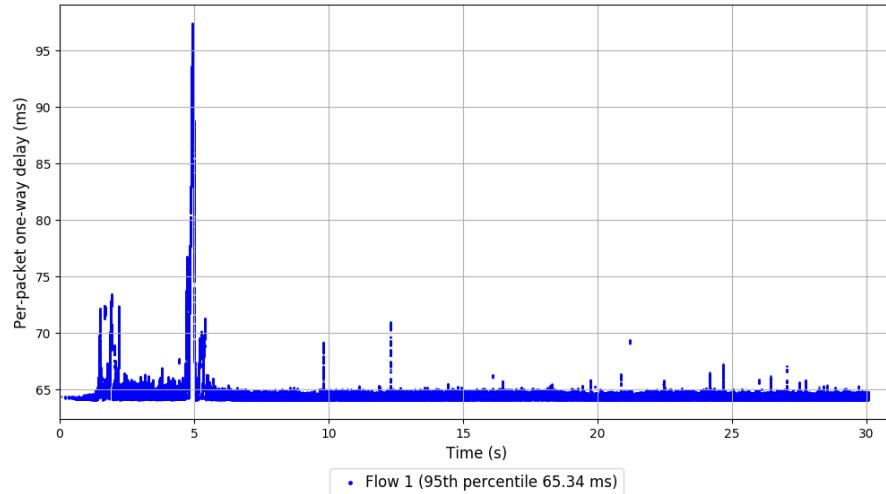
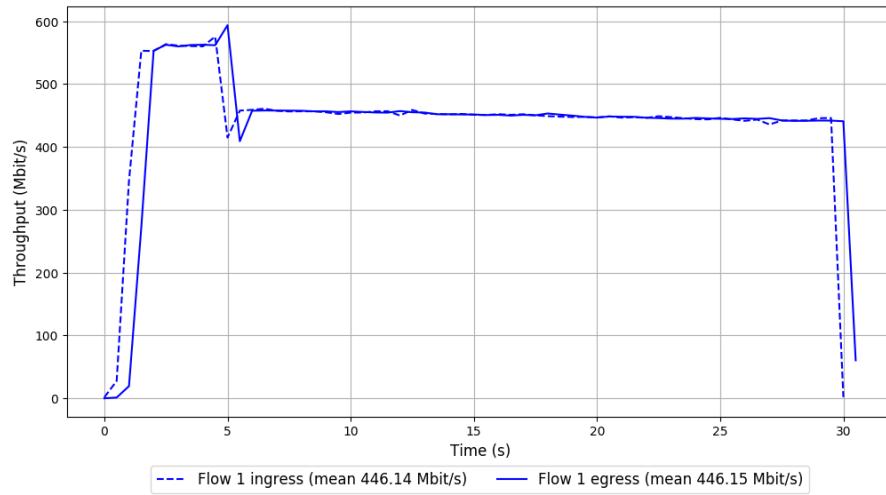


Run 2: Statistics of TCP Vegas

```
Start at: 2019-01-25 01:18:07
End at: 2019-01-25 01:18:37
Local clock offset: 0.006 ms
Remote clock offset: 1.282 ms

# Below is generated by plot.py at 2019-01-25 05:02:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 446.15 Mbit/s
95th percentile per-packet one-way delay: 65.343 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 446.15 Mbit/s
95th percentile per-packet one-way delay: 65.343 ms
Loss rate: 0.00%
```

Run 2: Report of TCP Vegas — Data Link

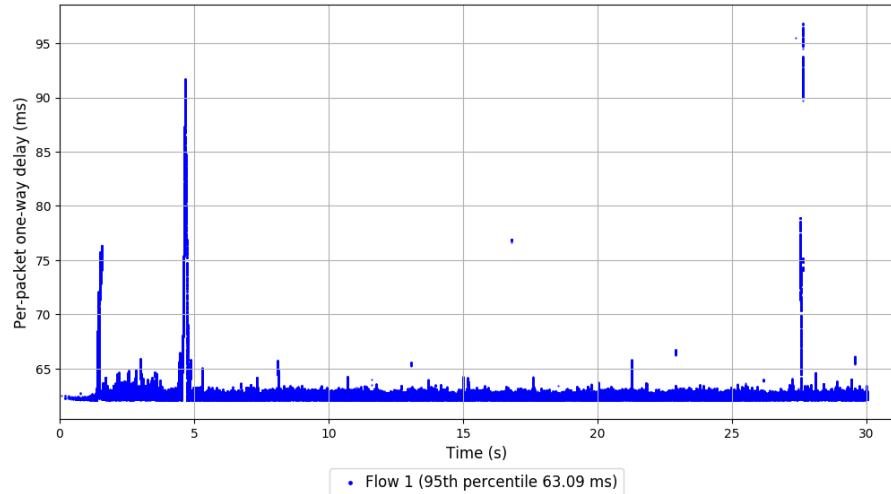
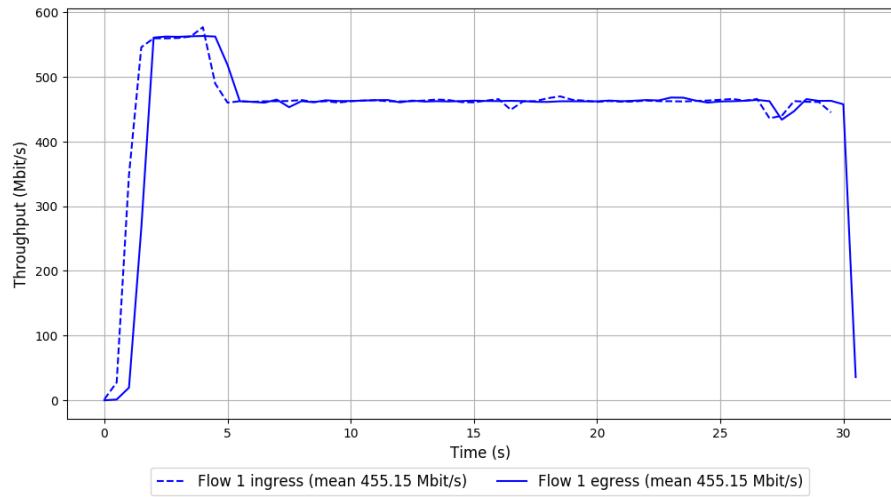


Run 3: Statistics of TCP Vegas

```
Start at: 2019-01-25 01:49:38
End at: 2019-01-25 01:50:08
Local clock offset: -0.115 ms
Remote clock offset: -0.655 ms

# Below is generated by plot.py at 2019-01-25 05:02:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 455.15 Mbit/s
95th percentile per-packet one-way delay: 63.090 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 455.15 Mbit/s
95th percentile per-packet one-way delay: 63.090 ms
Loss rate: 0.00%
```

Run 3: Report of TCP Vegas — Data Link

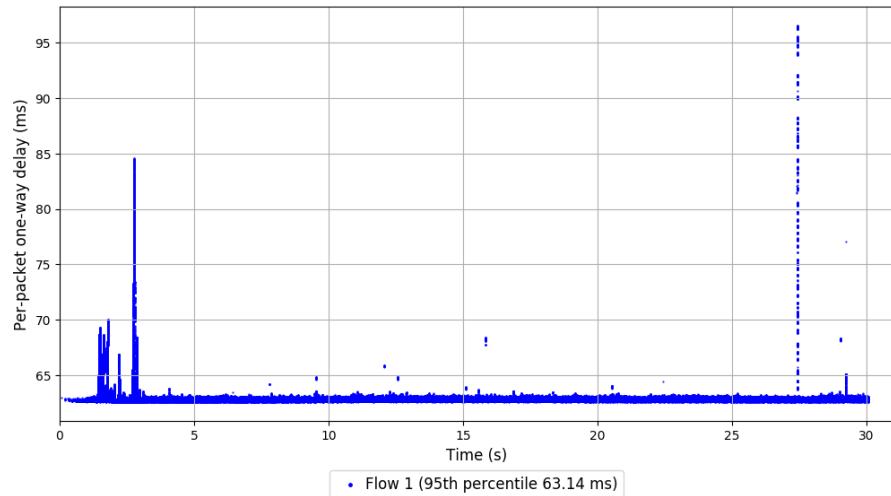
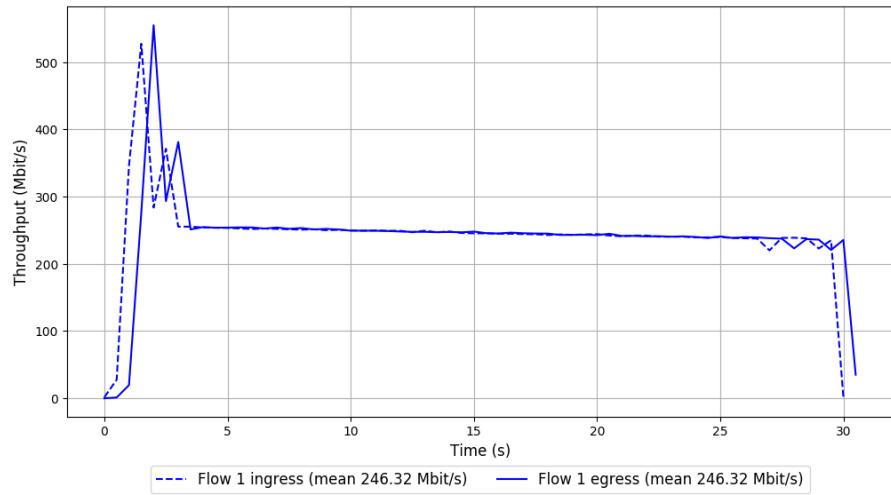


Run 4: Statistics of TCP Vegas

```
Start at: 2019-01-25 02:20:59
End at: 2019-01-25 02:21:29
Local clock offset: -0.152 ms
Remote clock offset: -0.499 ms

# Below is generated by plot.py at 2019-01-25 05:02:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 246.32 Mbit/s
95th percentile per-packet one-way delay: 63.141 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 246.32 Mbit/s
95th percentile per-packet one-way delay: 63.141 ms
Loss rate: 0.00%
```

Run 4: Report of TCP Vegas — Data Link

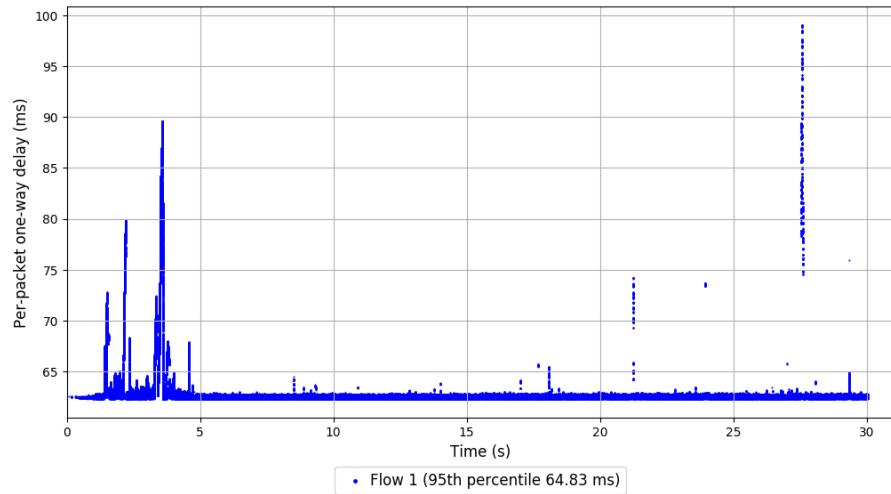
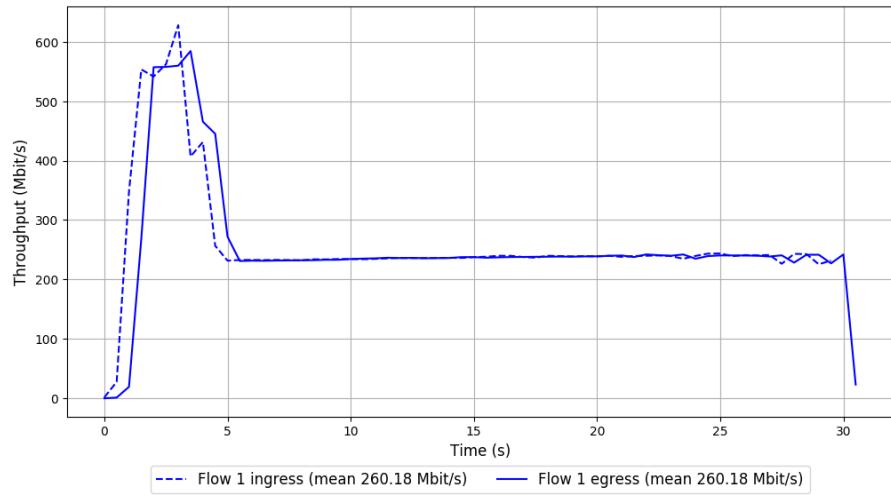


Run 5: Statistics of TCP Vegas

```
Start at: 2019-01-25 02:52:31
End at: 2019-01-25 02:53:01
Local clock offset: -0.043 ms
Remote clock offset: -0.854 ms

# Below is generated by plot.py at 2019-01-25 05:02:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 260.18 Mbit/s
95th percentile per-packet one-way delay: 64.827 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 260.18 Mbit/s
95th percentile per-packet one-way delay: 64.827 ms
Loss rate: 0.00%
```

Run 5: Report of TCP Vegas — Data Link

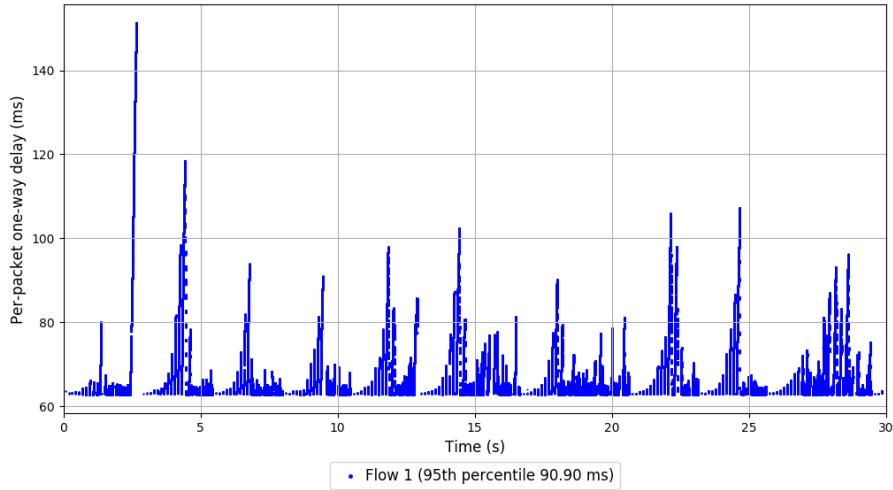
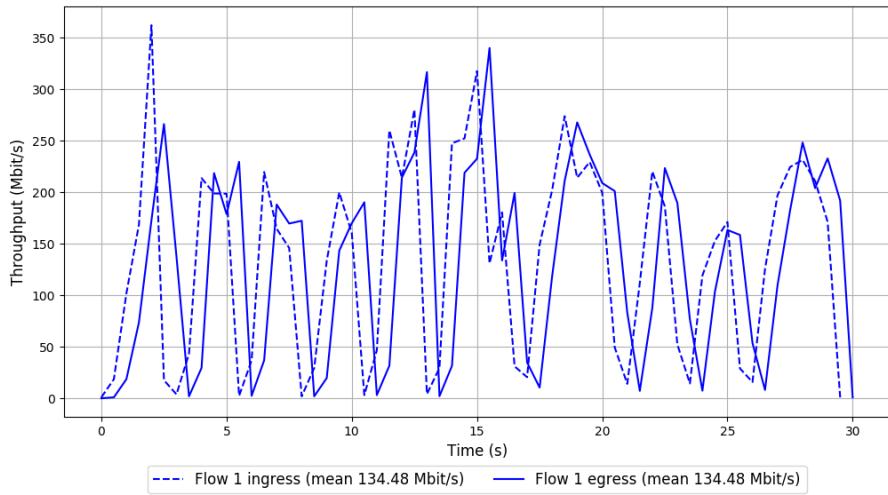


Run 1: Statistics of Verus

```
Start at: 2019-01-25 00:39:11
End at: 2019-01-25 00:39:41
Local clock offset: -0.079 ms
Remote clock offset: 0.019 ms

# Below is generated by plot.py at 2019-01-25 05:02:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 134.48 Mbit/s
95th percentile per-packet one-way delay: 90.903 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 134.48 Mbit/s
95th percentile per-packet one-way delay: 90.903 ms
Loss rate: 0.00%
```

Run 1: Report of Verus — Data Link

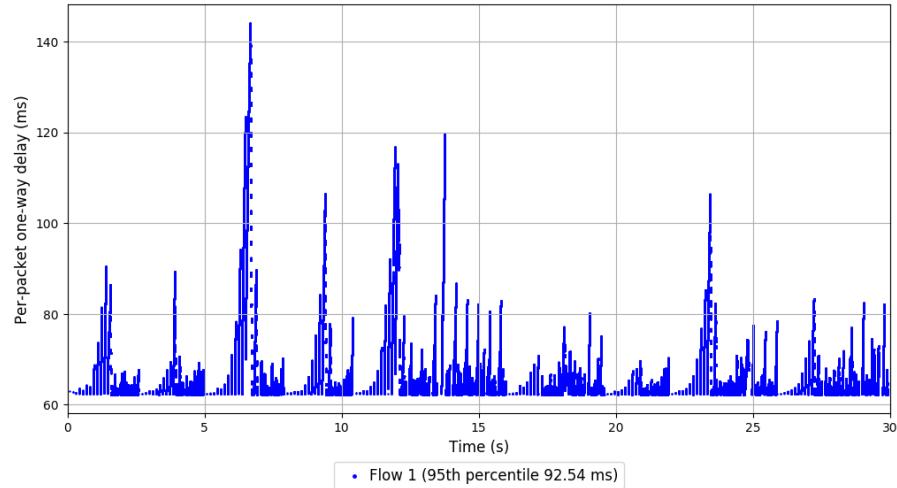
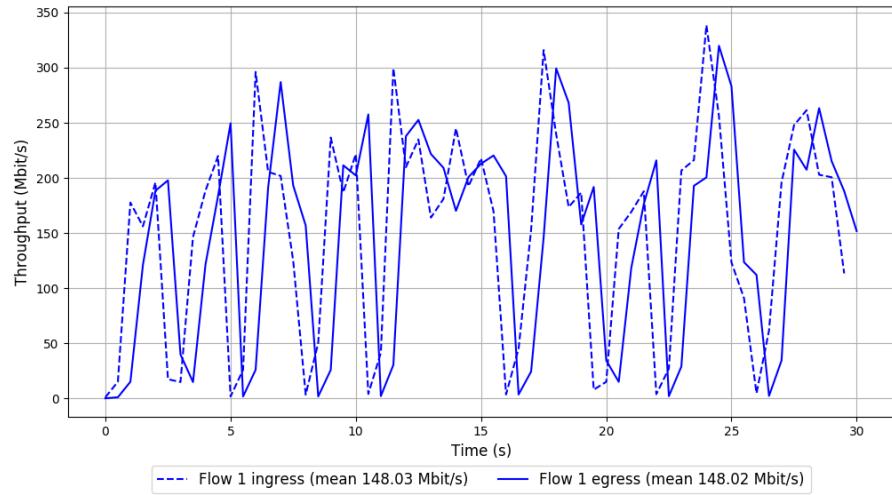


Run 2: Statistics of Verus

```
Start at: 2019-01-25 01:10:32
End at: 2019-01-25 01:11:02
Local clock offset: -0.022 ms
Remote clock offset: -0.71 ms

# Below is generated by plot.py at 2019-01-25 05:02:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 148.02 Mbit/s
95th percentile per-packet one-way delay: 92.538 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 148.02 Mbit/s
95th percentile per-packet one-way delay: 92.538 ms
Loss rate: 0.00%
```

Run 2: Report of Verus — Data Link

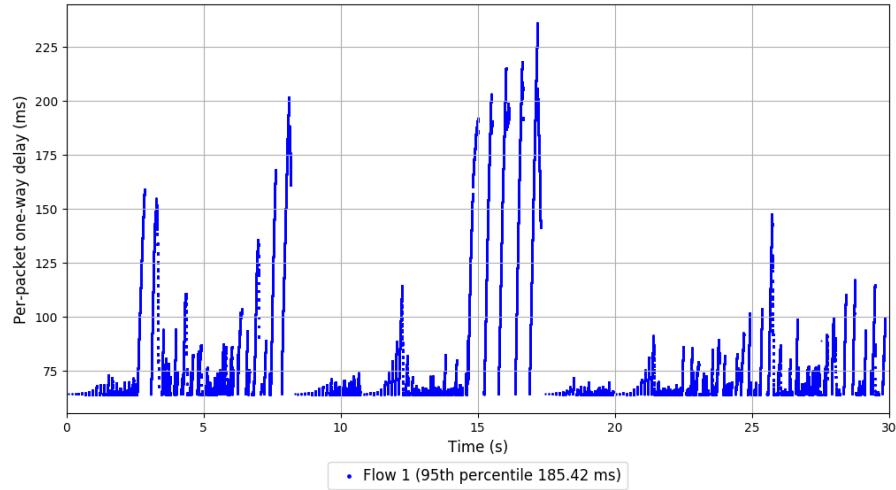
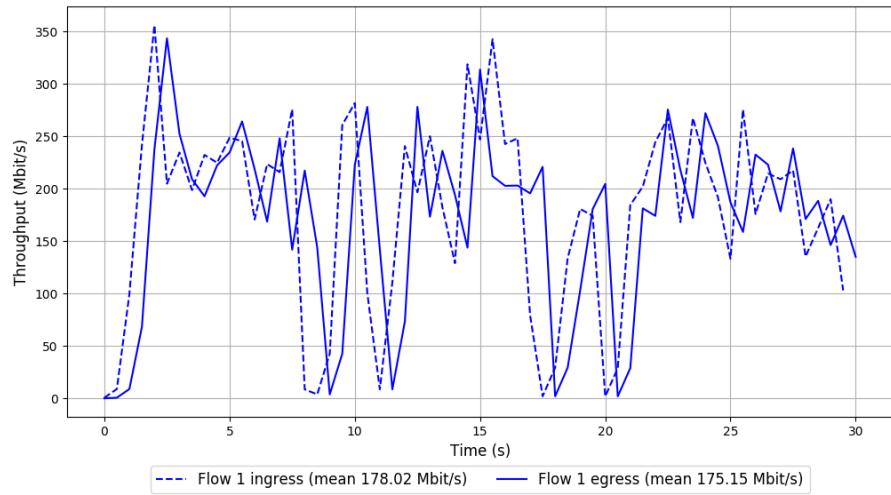


Run 3: Statistics of Verus

```
Start at: 2019-01-25 01:42:04
End at: 2019-01-25 01:42:34
Local clock offset: 0.07 ms
Remote clock offset: 1.146 ms

# Below is generated by plot.py at 2019-01-25 05:02:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 175.15 Mbit/s
95th percentile per-packet one-way delay: 185.422 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 175.15 Mbit/s
95th percentile per-packet one-way delay: 185.422 ms
Loss rate: 1.49%
```

Run 3: Report of Verus — Data Link

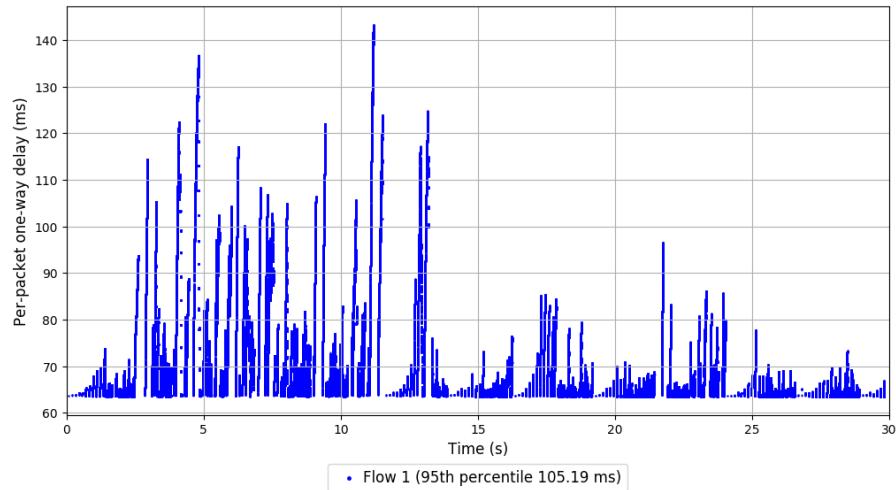
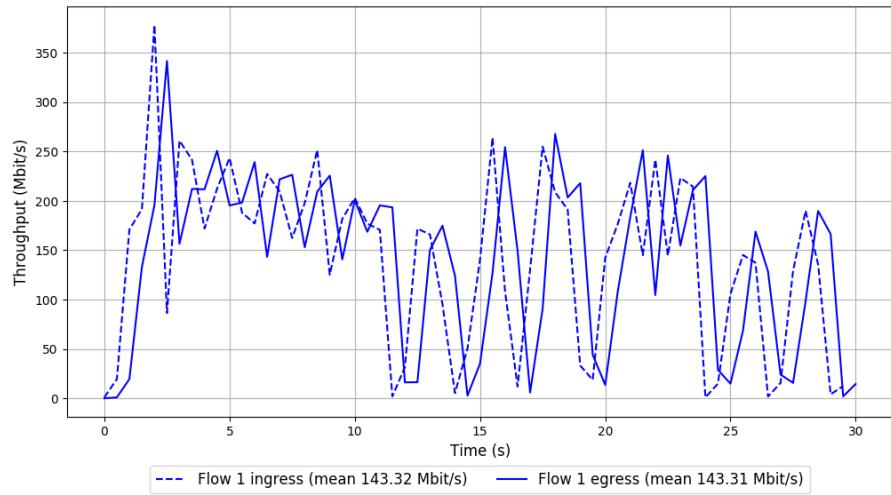


Run 4: Statistics of Verus

```
Start at: 2019-01-25 02:13:32
End at: 2019-01-25 02:14:02
Local clock offset: -0.153 ms
Remote clock offset: 0.69 ms

# Below is generated by plot.py at 2019-01-25 05:02:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 143.31 Mbit/s
95th percentile per-packet one-way delay: 105.188 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 143.31 Mbit/s
95th percentile per-packet one-way delay: 105.188 ms
Loss rate: 0.00%
```

Run 4: Report of Verus — Data Link

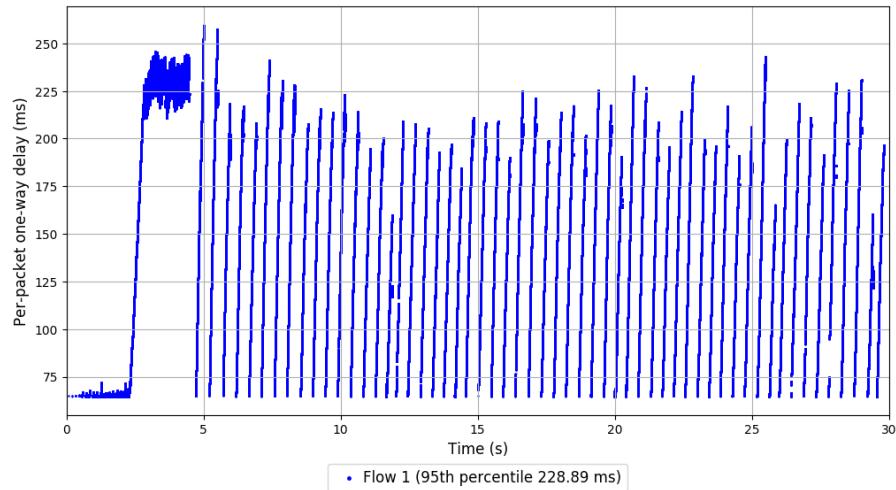
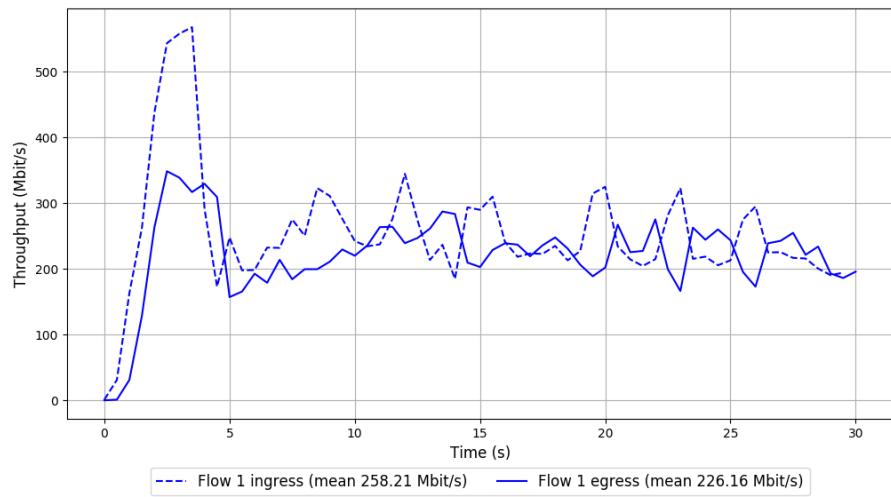


Run 5: Statistics of Verus

```
Start at: 2019-01-25 02:44:46
End at: 2019-01-25 02:45:16
Local clock offset: -0.125 ms
Remote clock offset: 1.168 ms

# Below is generated by plot.py at 2019-01-25 05:06:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 226.16 Mbit/s
95th percentile per-packet one-way delay: 228.888 ms
Loss rate: 12.02%
-- Flow 1:
Average throughput: 226.16 Mbit/s
95th percentile per-packet one-way delay: 228.888 ms
Loss rate: 12.02%
```

Run 5: Report of Verus — Data Link

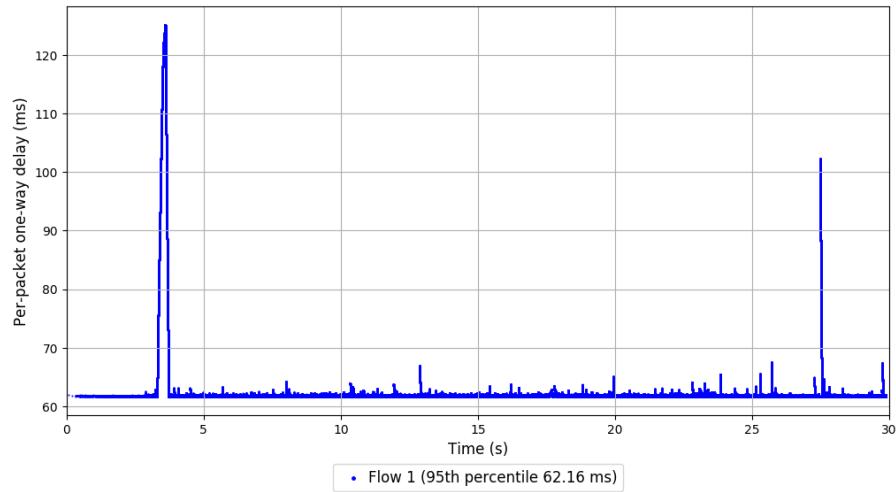
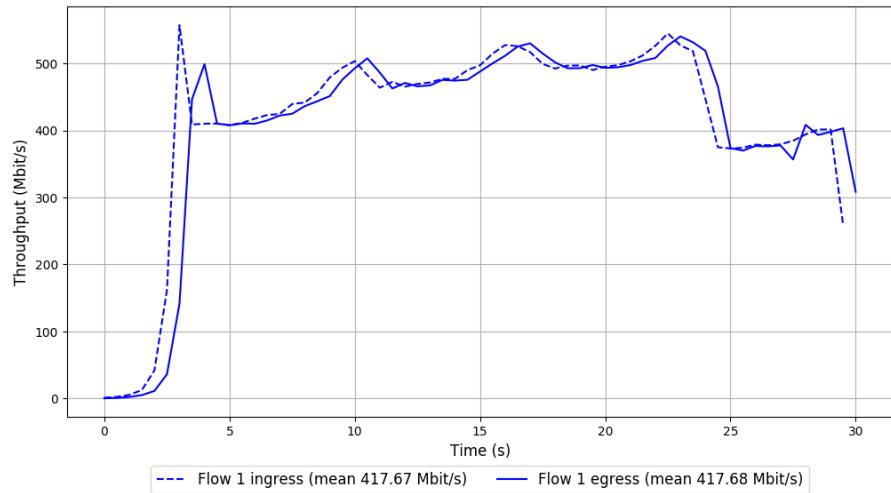


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-01-25 00:34:38
End at: 2019-01-25 00:35:08
Local clock offset: 0.01 ms
Remote clock offset: -1.344 ms

# Below is generated by plot.py at 2019-01-25 05:06:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 417.68 Mbit/s
95th percentile per-packet one-way delay: 62.158 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 417.68 Mbit/s
95th percentile per-packet one-way delay: 62.158 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Vivace — Data Link

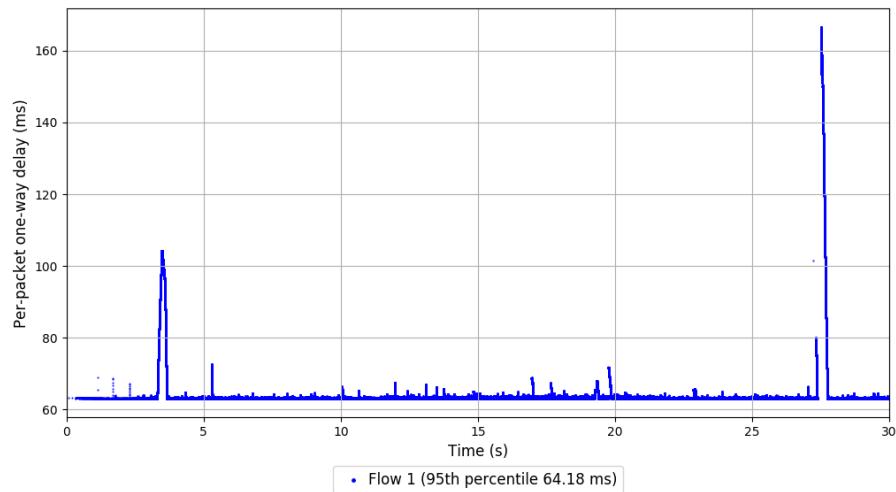
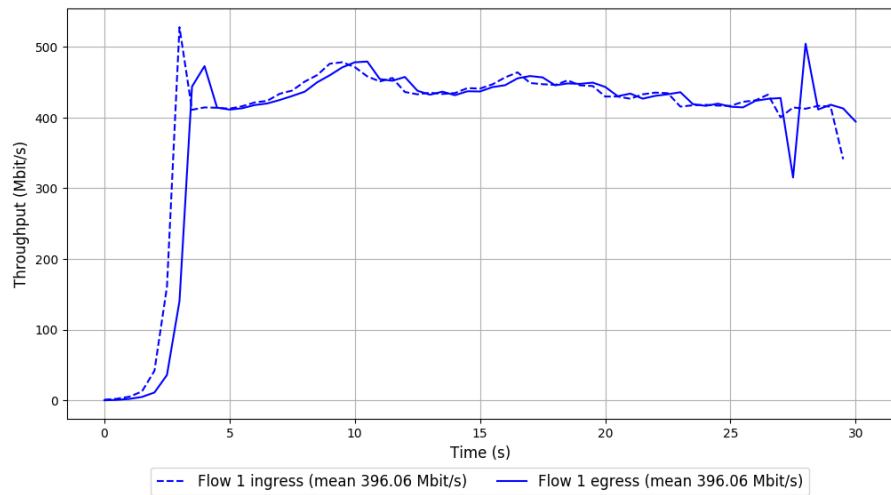


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-01-25 01:06:05
End at: 2019-01-25 01:06:35
Local clock offset: -0.001 ms
Remote clock offset: -0.186 ms

# Below is generated by plot.py at 2019-01-25 05:06:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 396.06 Mbit/s
95th percentile per-packet one-way delay: 64.183 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 396.06 Mbit/s
95th percentile per-packet one-way delay: 64.183 ms
Loss rate: 0.00%
```

Run 2: Report of PCC-Vivace — Data Link

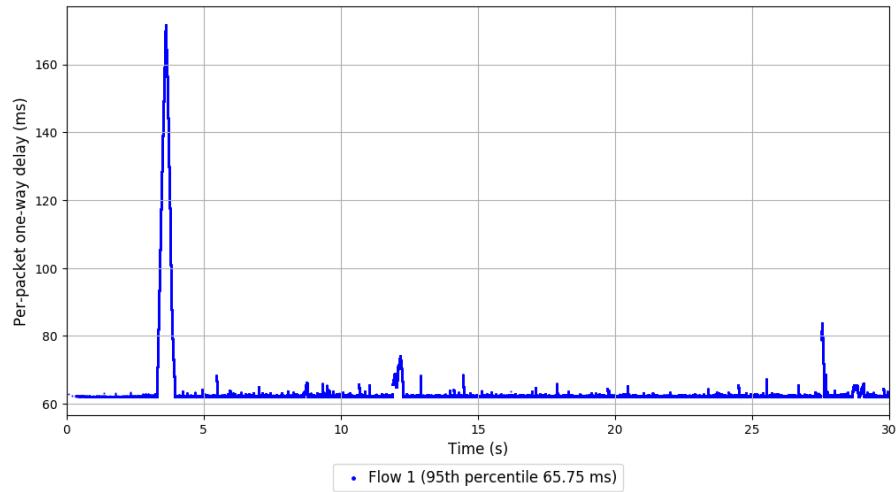
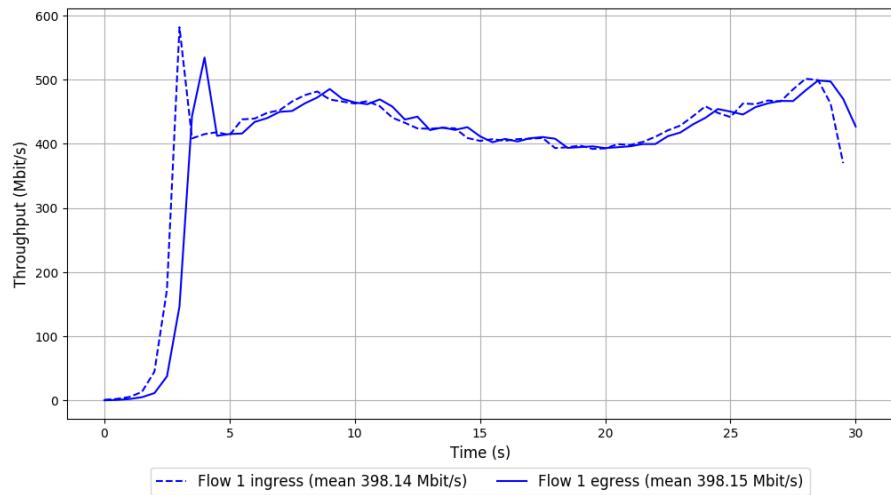


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-01-25 01:37:34
End at: 2019-01-25 01:38:04
Local clock offset: -0.007 ms
Remote clock offset: -0.76 ms

# Below is generated by plot.py at 2019-01-25 05:06:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 398.15 Mbit/s
95th percentile per-packet one-way delay: 65.750 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 398.15 Mbit/s
95th percentile per-packet one-way delay: 65.750 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Vivace — Data Link

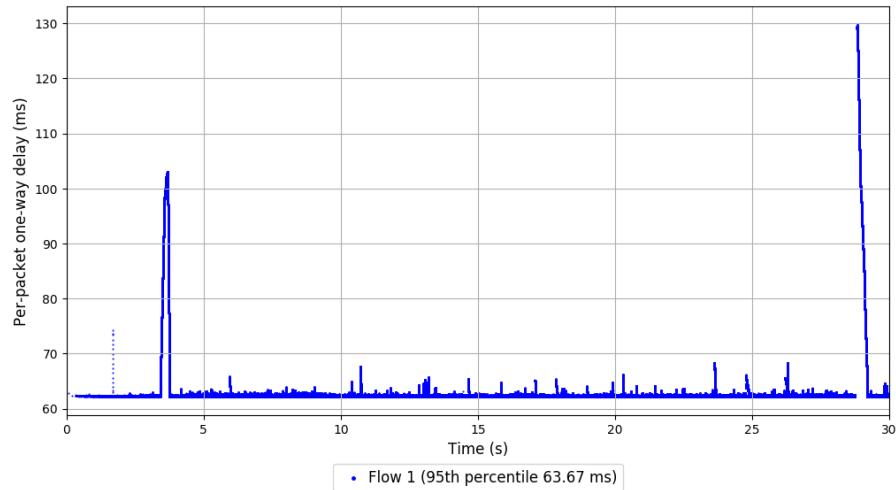
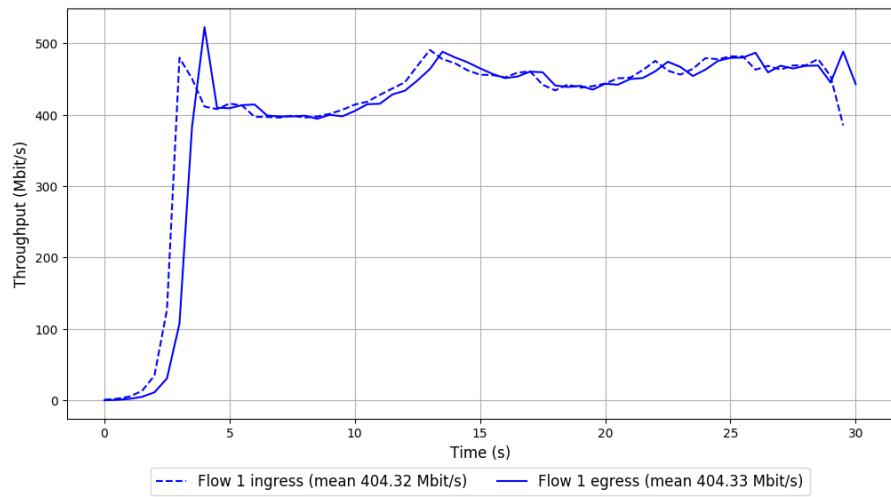


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-01-25 02:09:03
End at: 2019-01-25 02:09:33
Local clock offset: -0.207 ms
Remote clock offset: -0.743 ms

# Below is generated by plot.py at 2019-01-25 05:06:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 404.33 Mbit/s
95th percentile per-packet one-way delay: 63.668 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 404.33 Mbit/s
95th percentile per-packet one-way delay: 63.668 ms
Loss rate: 0.00%
```

Run 4: Report of PCC-Vivace — Data Link

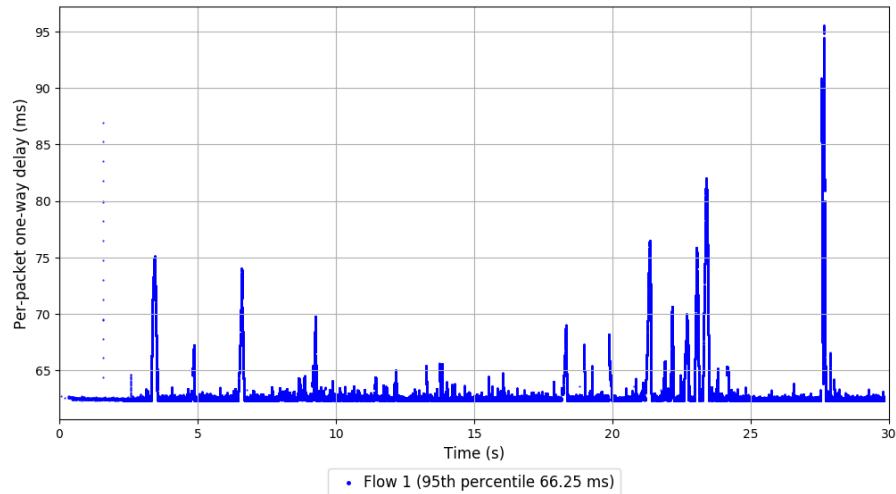
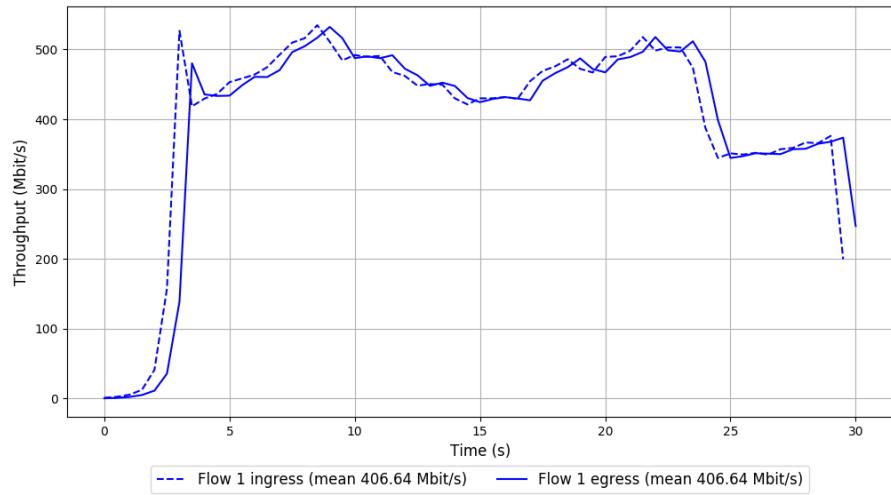


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-01-25 02:40:16
End at: 2019-01-25 02:40:46
Local clock offset: -0.128 ms
Remote clock offset: -0.903 ms

# Below is generated by plot.py at 2019-01-25 05:06:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 406.64 Mbit/s
95th percentile per-packet one-way delay: 66.248 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 406.64 Mbit/s
95th percentile per-packet one-way delay: 66.248 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

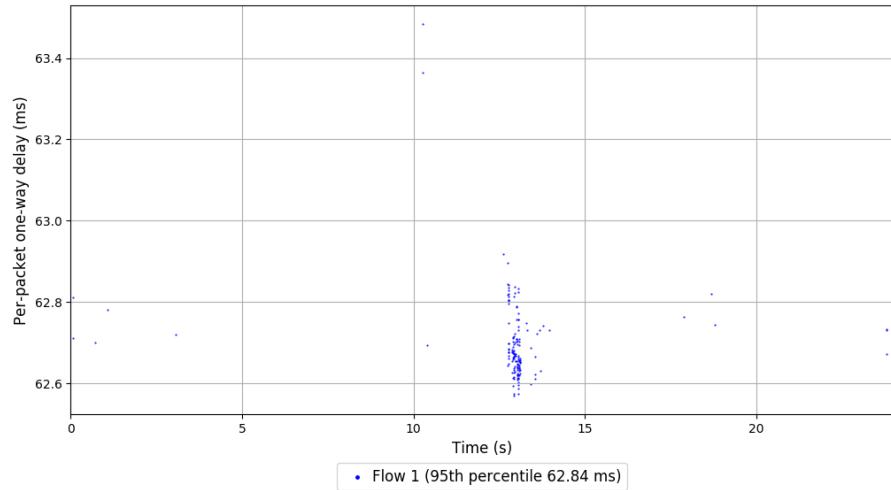
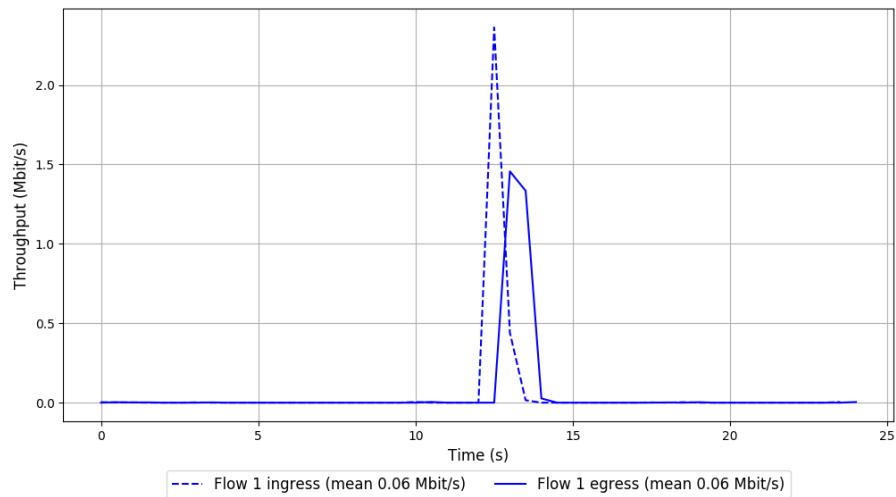
Start at: 2019-01-25 00:49:23

End at: 2019-01-25 00:49:53

Local clock offset: -0.089 ms

Remote clock offset: -0.37 ms

Run 1: Report of WebRTC media — Data Link

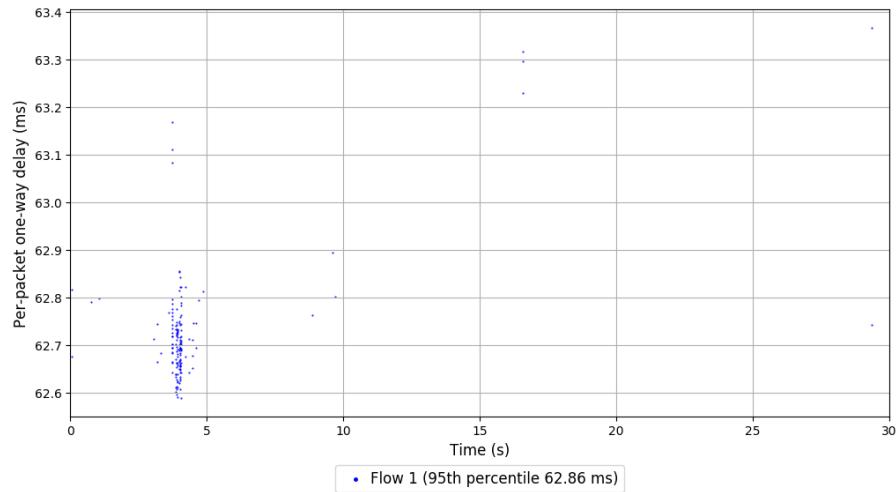
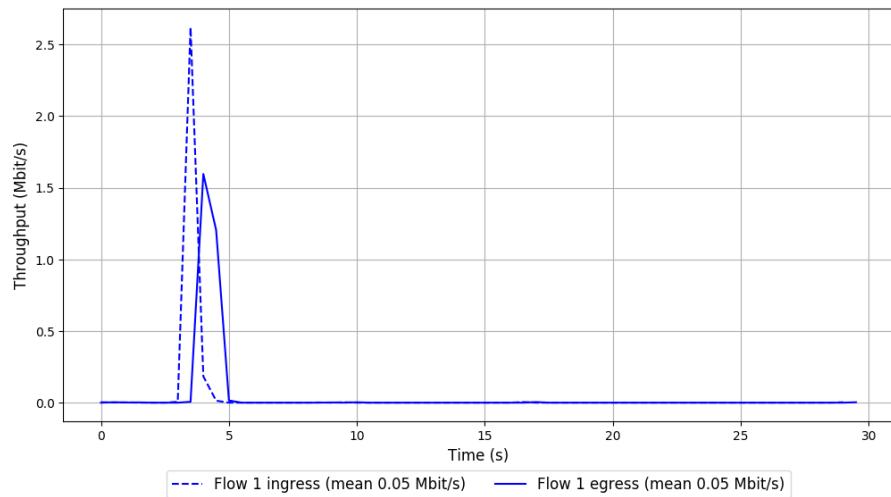


Run 2: Statistics of WebRTC media

```
Start at: 2019-01-25 01:20:45
End at: 2019-01-25 01:21:15
Local clock offset: 0.029 ms
Remote clock offset: -0.188 ms

# Below is generated by plot.py at 2019-01-25 05:06:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 62.856 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 62.856 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

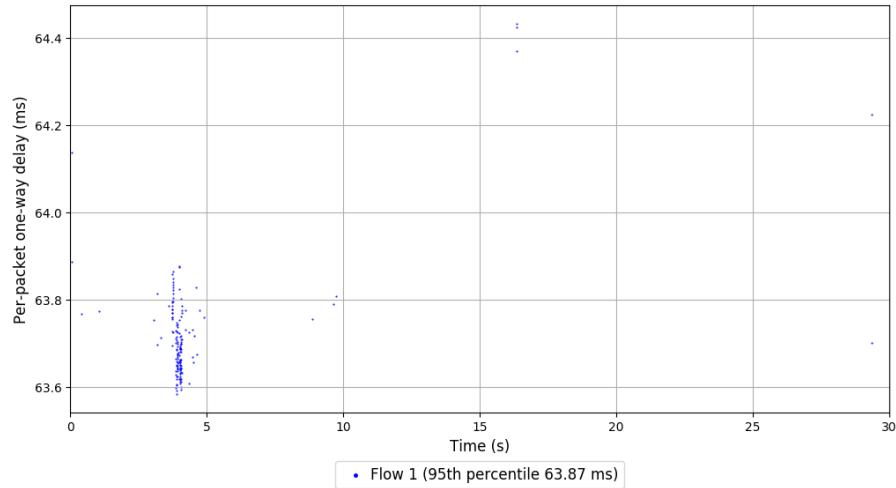
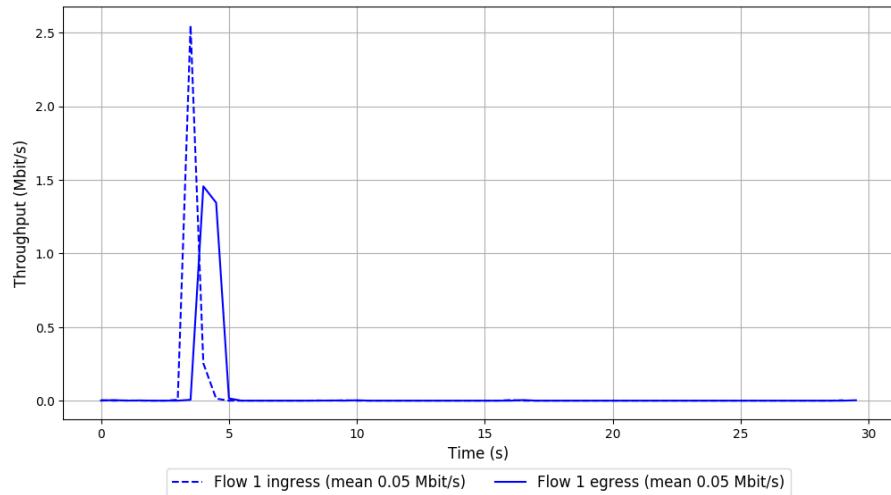


Run 3: Statistics of WebRTC media

```
Start at: 2019-01-25 01:52:17
End at: 2019-01-25 01:52:47
Local clock offset: 0.041 ms
Remote clock offset: 0.545 ms

# Below is generated by plot.py at 2019-01-25 05:06:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.865 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.865 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

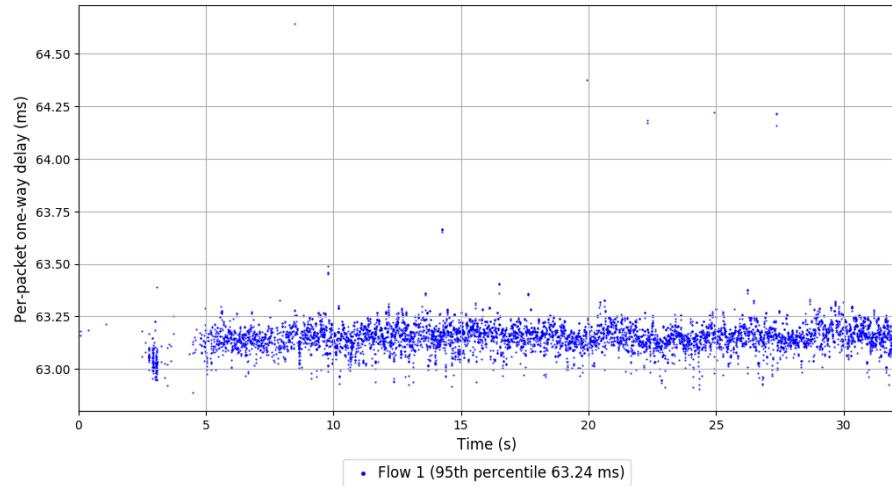
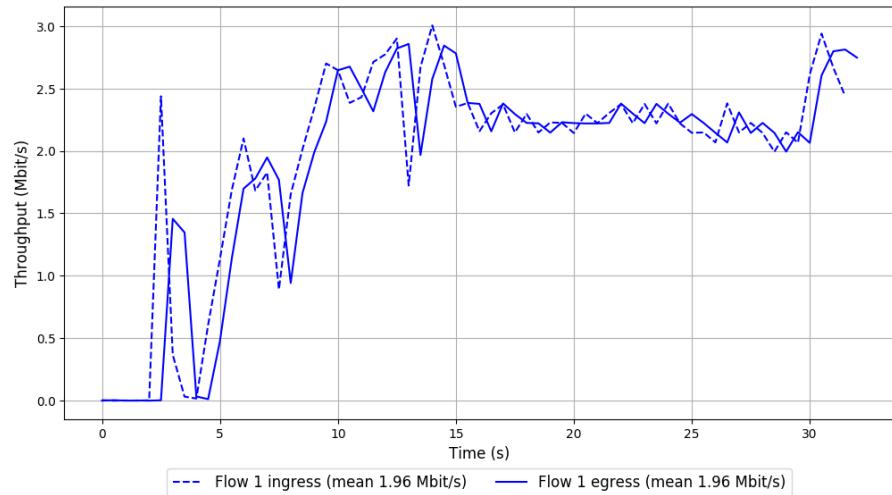


Run 4: Statistics of WebRTC media

```
Start at: 2019-01-25 02:23:28
End at: 2019-01-25 02:23:58
Local clock offset: -0.147 ms
Remote clock offset: -0.219 ms

# Below is generated by plot.py at 2019-01-25 05:06:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 63.245 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 63.245 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-01-25 02:55:00
End at: 2019-01-25 02:55:30
Local clock offset: -0.079 ms
Remote clock offset: -0.159 ms

# Below is generated by plot.py at 2019-01-25 05:06:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.68 Mbit/s
95th percentile per-packet one-way delay: 63.593 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.68 Mbit/s
95th percentile per-packet one-way delay: 63.593 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

