

Pantheon Report

Generated at 2019-01-25 16:26:15 (UTC).
Data path: GCE Sydney on `ens4 (local)` → GCE Tokyo on `ens4 (remote)`.
Repeated the test of 21 congestion control schemes 5 times.
Each test lasted for 30 seconds running 1 flow.
NTP offsets were measured against `time.google.com` and have been applied to correct the timestamps in logs.

System info:

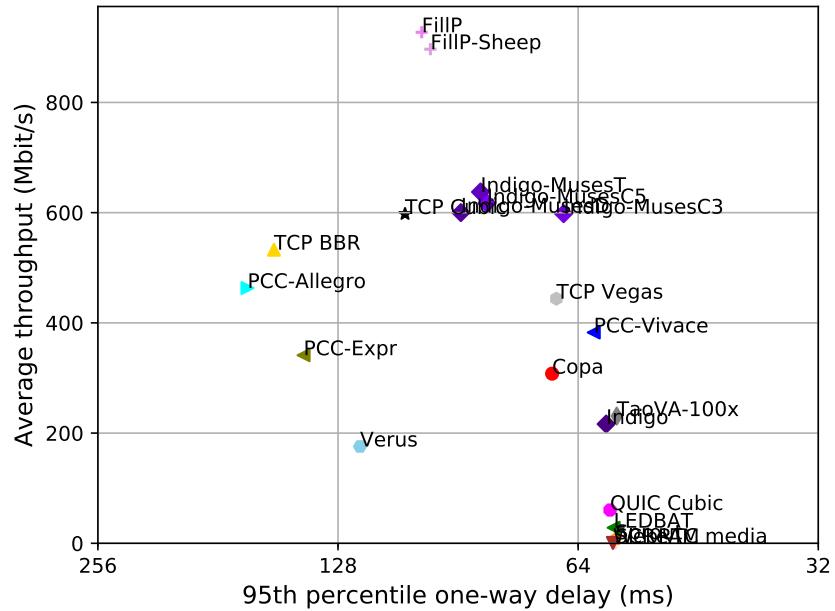
```
Linux 4.15.0-1026-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

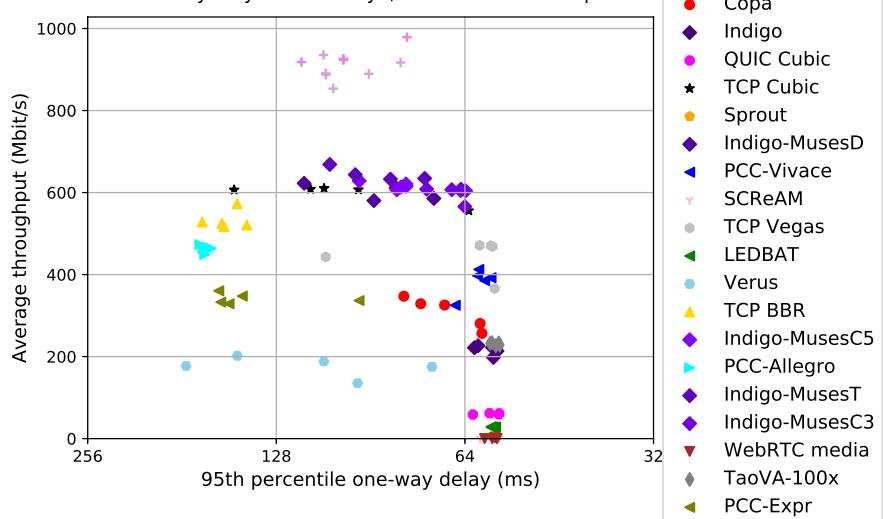
```
branch: muses @ 0b8e9a949603c3842368430acf469eec3b941f9f
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d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



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



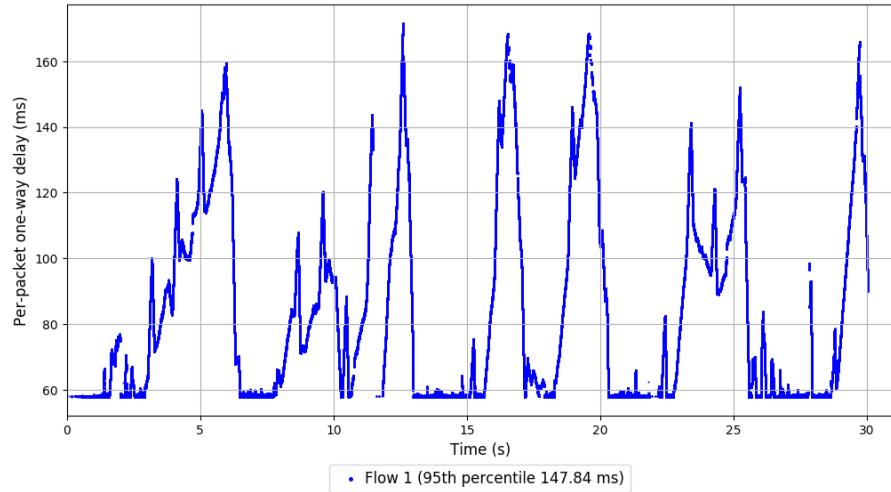
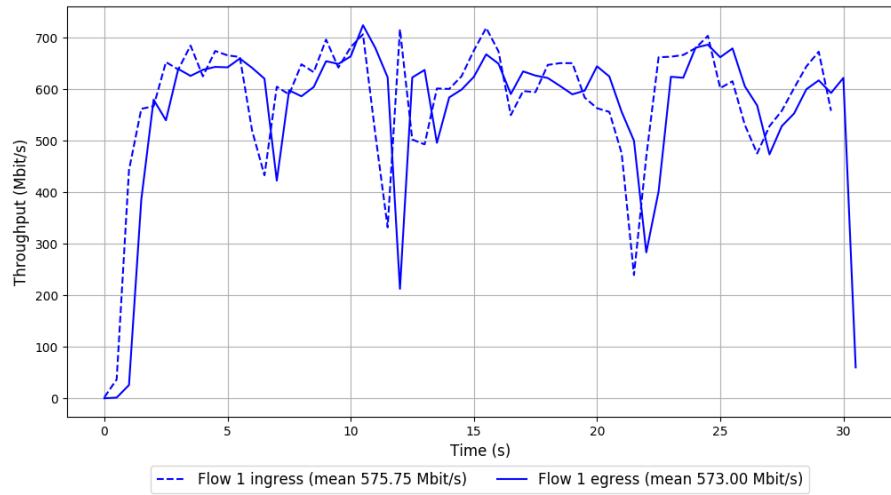
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	532.80	154.00	0.88
Copa	5	307.87	69.00	0.00
TCP Cubic	5	597.59	105.49	0.08
FillP	5	927.33	100.53	0.48
FillP-Sheep	5	896.65	98.04	0.35
Indigo	5	216.42	59.03	0.00
Indigo-MusesC3	5	598.12	66.74	0.01
Indigo-MusesC5	5	616.95	83.28	0.04
Indigo-MusesD	4	600.09	89.78	0.08
Indigo-MusesT	5	637.51	84.84	0.06
LEDBAT	5	28.29	57.78	0.00
PCC-Allegro	5	463.21	166.22	2.03
PCC-Expr	5	341.28	141.39	1.43
QUIC Cubic	4	60.37	58.38	0.01
SCReAM	5	0.22	57.55	0.00
Sprout	5	7.42	57.48	0.00
TaoVA-100x	5	230.89	57.26	0.00
TCP Vegas	5	443.86	68.15	0.00
Verus	5	175.68	120.14	0.22
PCC-Vivace	5	382.58	61.19	0.01
WebRTC media	4	0.59	57.90	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-01-25 11:59:02
End at: 2019-01-25 11:59:32
Local clock offset: -0.343 ms
Remote clock offset: 0.493 ms

# Below is generated by plot.py at 2019-01-25 14:35:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 573.00 Mbit/s
95th percentile per-packet one-way delay: 147.840 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 573.00 Mbit/s
95th percentile per-packet one-way delay: 147.840 ms
Loss rate: 0.47%
```

Run 1: Report of TCP BBR — Data Link

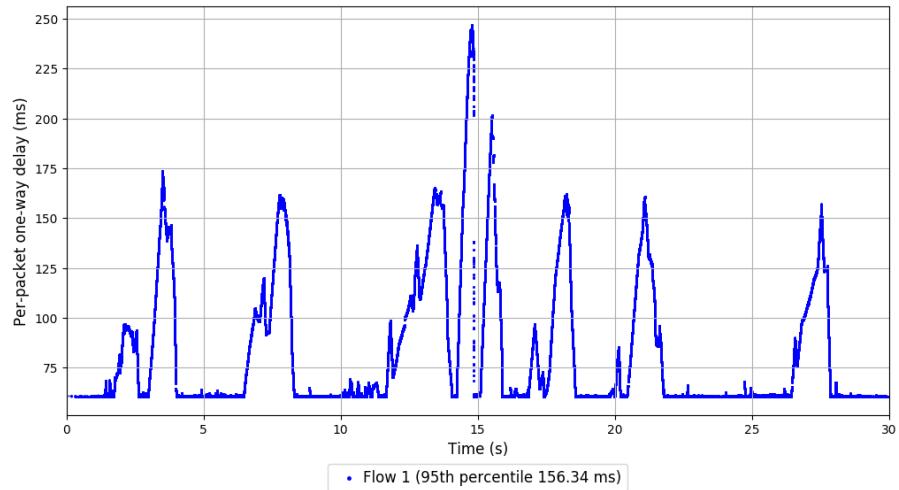
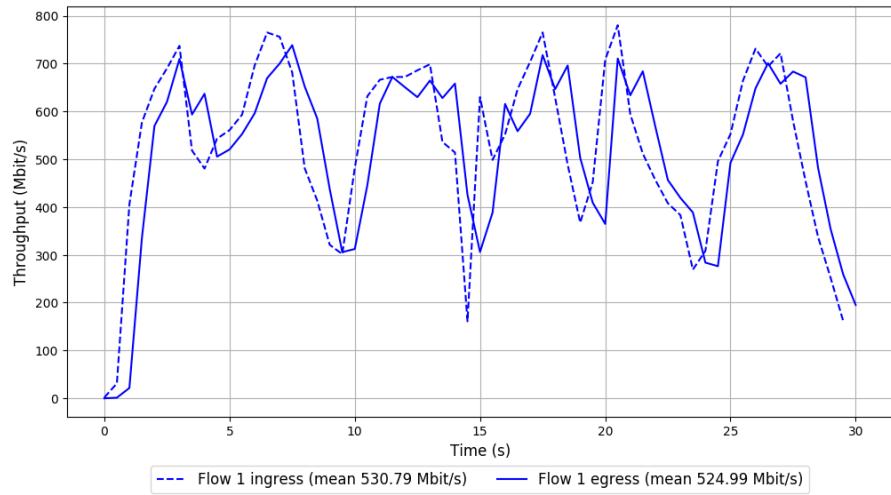


Run 2: Statistics of TCP BBR

```
Start at: 2019-01-25 12:30:35
End at: 2019-01-25 12:31:05
Local clock offset: -0.396 ms
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2019-01-25 14:35:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 524.99 Mbit/s
95th percentile per-packet one-way delay: 156.345 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 524.99 Mbit/s
95th percentile per-packet one-way delay: 156.345 ms
Loss rate: 1.09%
```

Run 2: Report of TCP BBR — Data Link

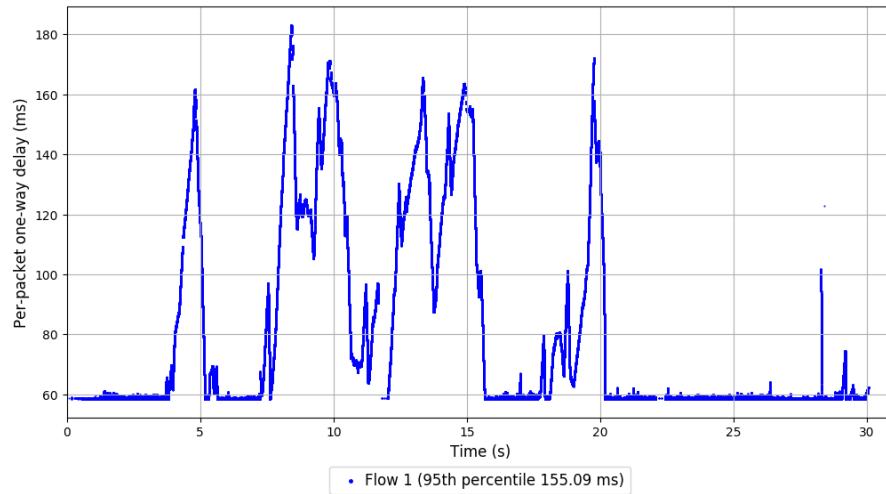
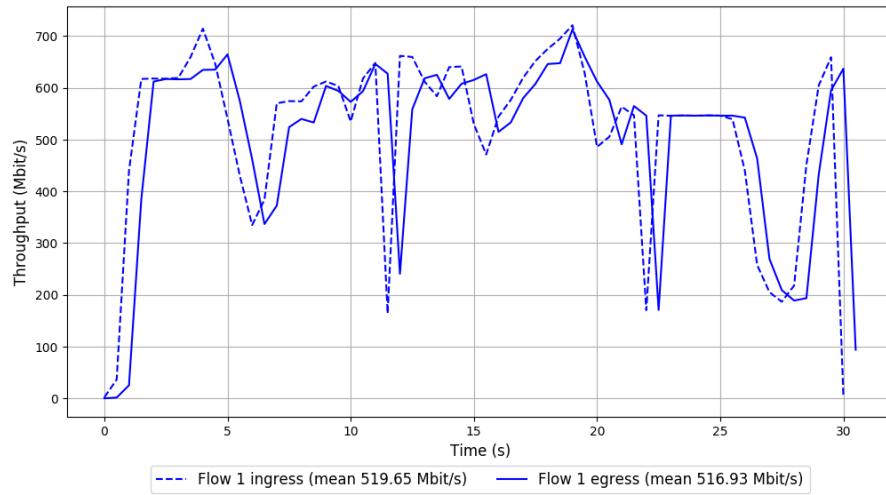


Run 3: Statistics of TCP BBR

```
Start at: 2019-01-25 13:01:45
End at: 2019-01-25 13:02:15
Local clock offset: -0.482 ms
Remote clock offset: 0.698 ms

# Below is generated by plot.py at 2019-01-25 14:35:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 516.93 Mbit/s
95th percentile per-packet one-way delay: 155.094 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 516.93 Mbit/s
95th percentile per-packet one-way delay: 155.094 ms
Loss rate: 0.52%
```

Run 3: Report of TCP BBR — Data Link

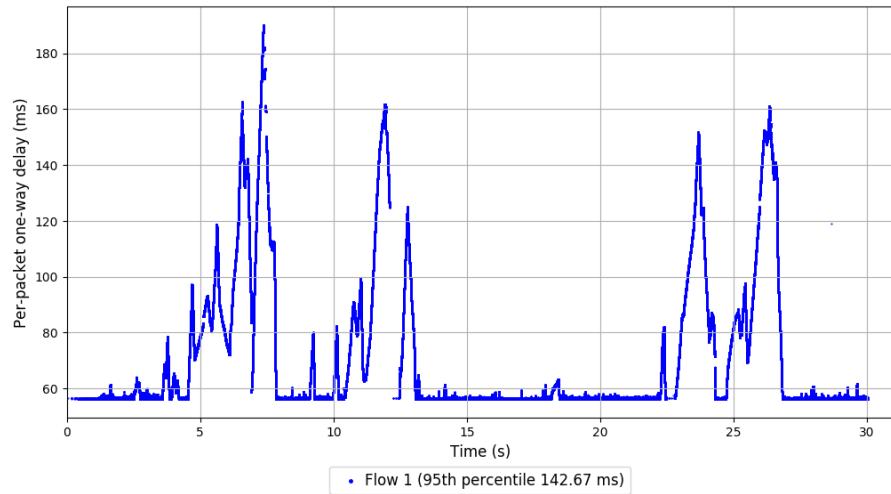
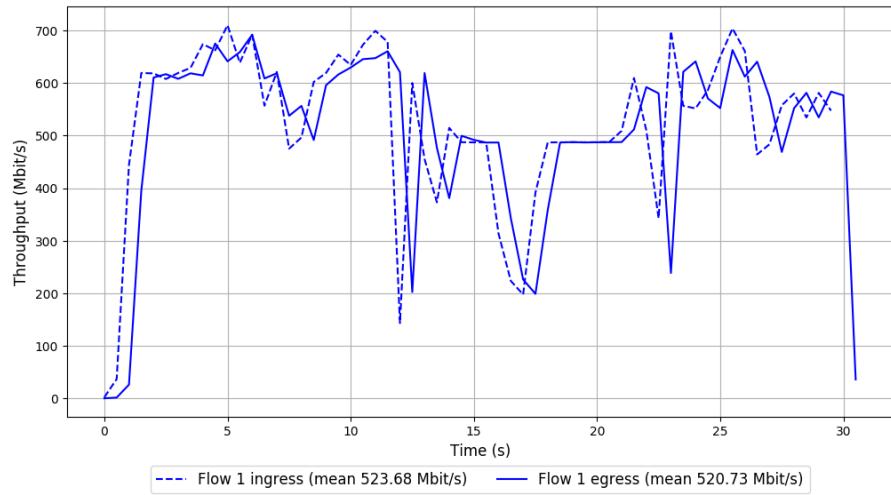


Run 4: Statistics of TCP BBR

```
Start at: 2019-01-25 13:34:10
End at: 2019-01-25 13:34:40
Local clock offset: 0.424 ms
Remote clock offset: -0.59 ms

# Below is generated by plot.py at 2019-01-25 14:35:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 520.73 Mbit/s
95th percentile per-packet one-way delay: 142.673 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 520.73 Mbit/s
95th percentile per-packet one-way delay: 142.673 ms
Loss rate: 0.56%
```

Run 4: Report of TCP BBR — Data Link

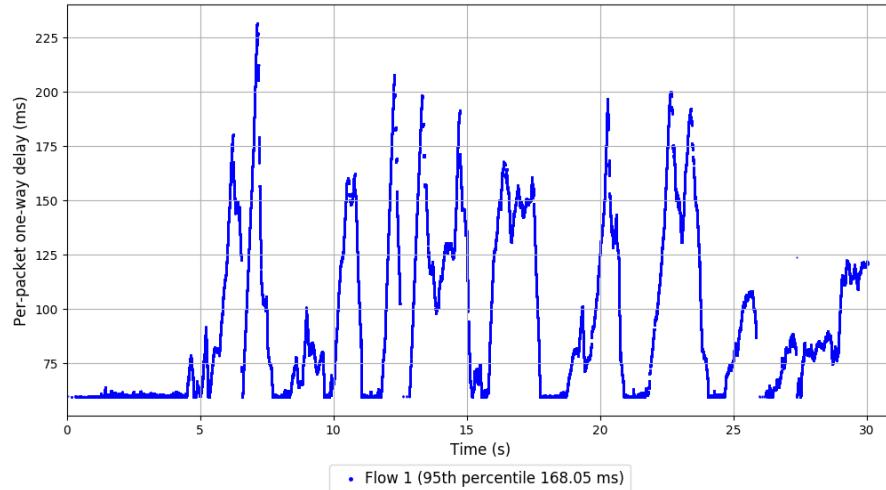
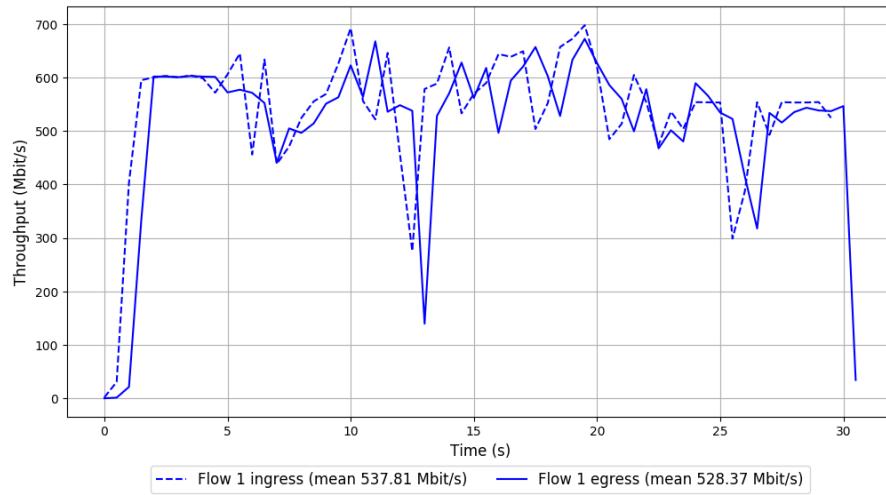


Run 5: Statistics of TCP BBR

```
Start at: 2019-01-25 14:05:33
End at: 2019-01-25 14:06:03
Local clock offset: 0.114 ms
Remote clock offset: -0.68 ms

# Below is generated by plot.py at 2019-01-25 14:35:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 528.37 Mbit/s
95th percentile per-packet one-way delay: 168.049 ms
Loss rate: 1.76%
-- Flow 1:
Average throughput: 528.37 Mbit/s
95th percentile per-packet one-way delay: 168.049 ms
Loss rate: 1.76%
```

Run 5: Report of TCP BBR — Data Link

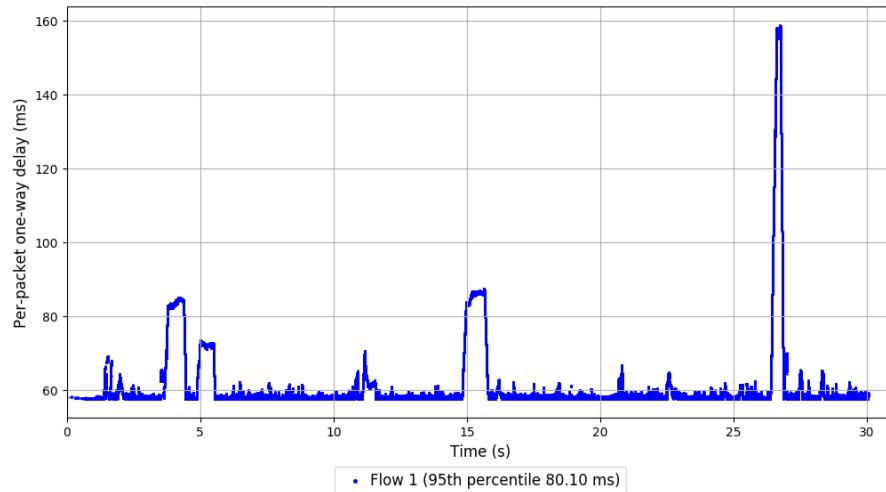
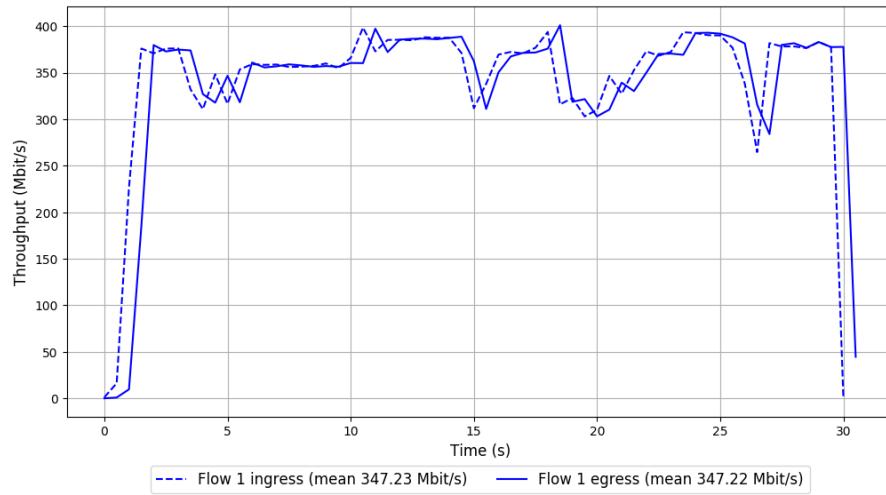


Run 1: Statistics of Copa

```
Start at: 2019-01-25 12:02:21
End at: 2019-01-25 12:02:51
Local clock offset: -0.152 ms
Remote clock offset: 0.603 ms

# Below is generated by plot.py at 2019-01-25 14:36:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 347.22 Mbit/s
95th percentile per-packet one-way delay: 80.104 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 347.22 Mbit/s
95th percentile per-packet one-way delay: 80.104 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link

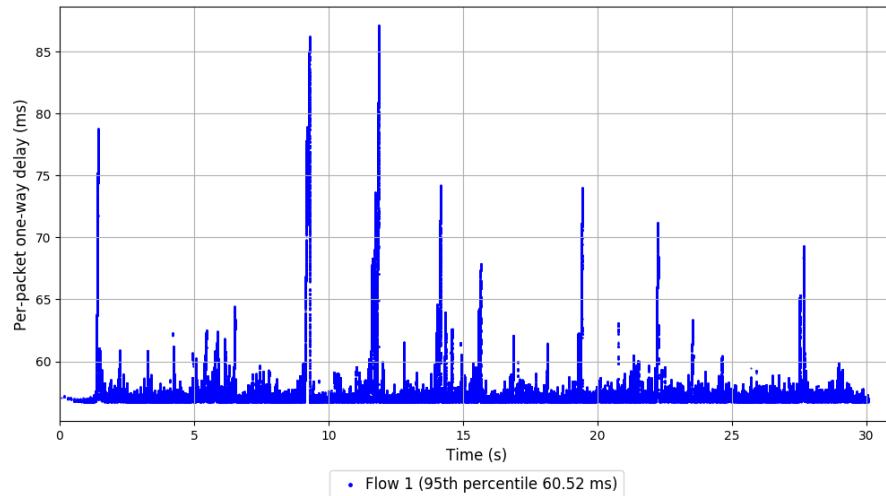
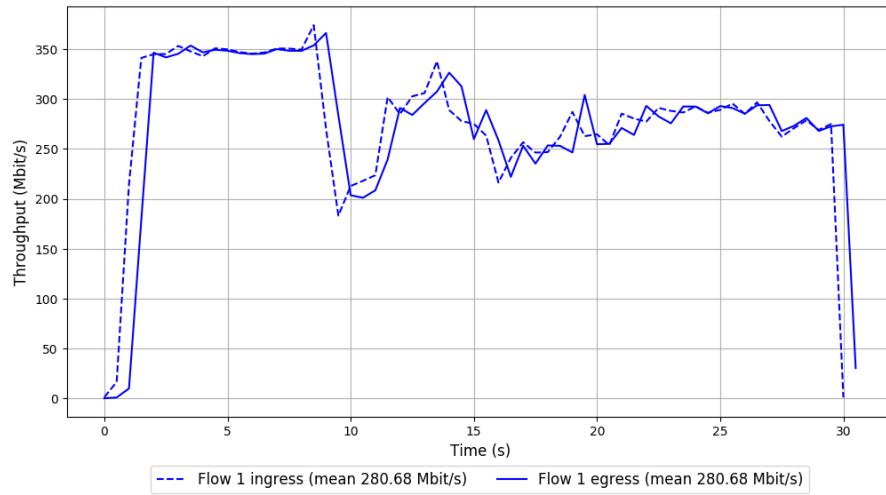


Run 2: Statistics of Copa

```
Start at: 2019-01-25 12:33:52
End at: 2019-01-25 12:34:22
Local clock offset: -0.156 ms
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2019-01-25 14:36:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 280.68 Mbit/s
95th percentile per-packet one-way delay: 60.522 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 280.68 Mbit/s
95th percentile per-packet one-way delay: 60.522 ms
Loss rate: 0.00%
```

Run 2: Report of Copa — Data Link

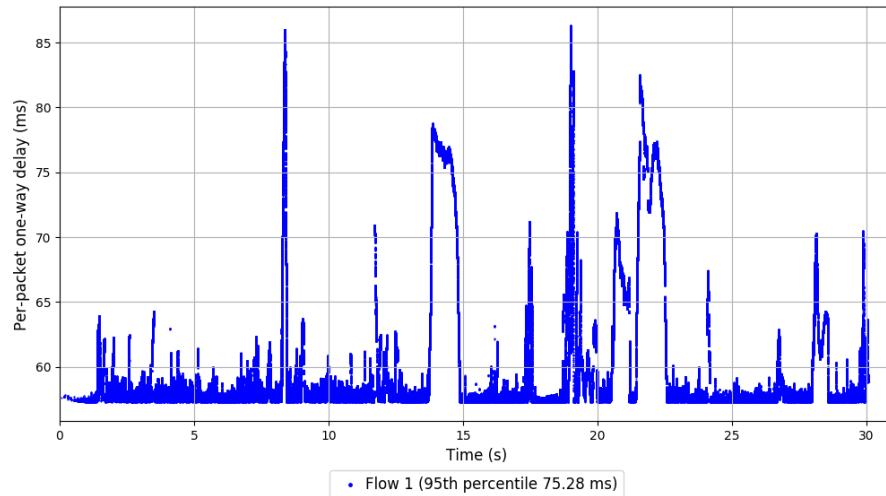
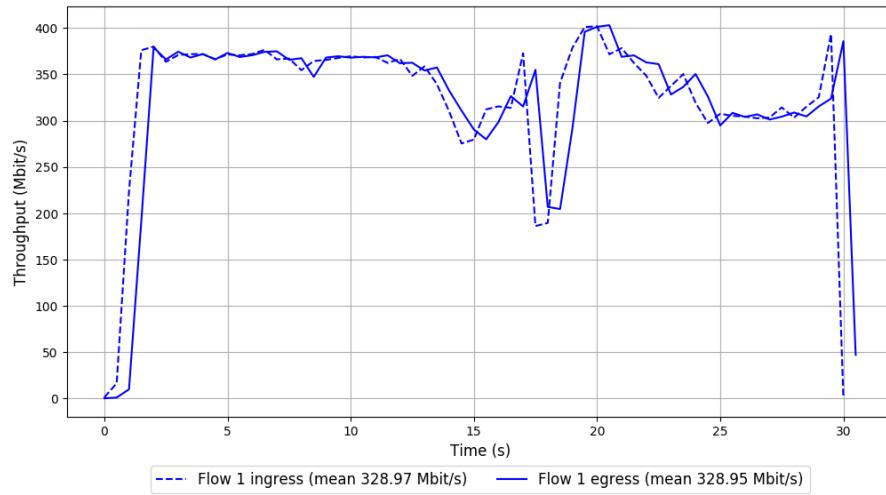


Run 3: Statistics of Copa

```
Start at: 2019-01-25 13:05:00
End at: 2019-01-25 13:05:30
Local clock offset: -0.073 ms
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2019-01-25 14:36:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 328.95 Mbit/s
95th percentile per-packet one-way delay: 75.278 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 328.95 Mbit/s
95th percentile per-packet one-way delay: 75.278 ms
Loss rate: 0.01%
```

Run 3: Report of Copa — Data Link

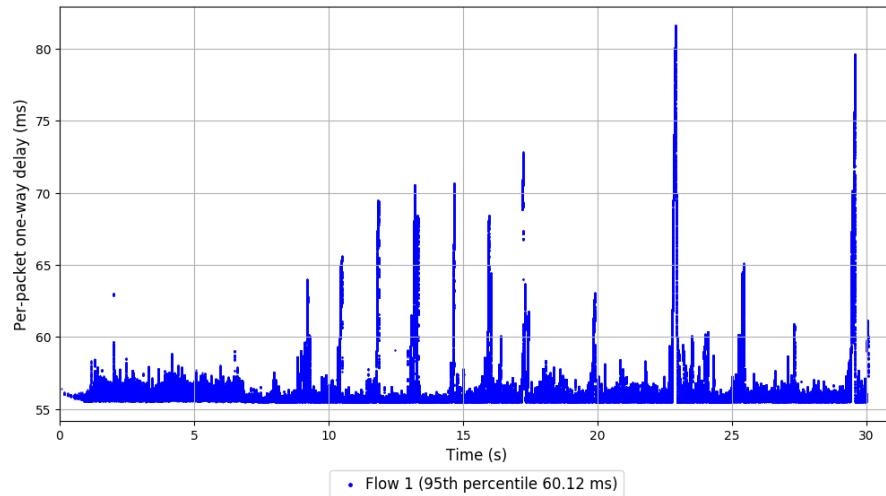
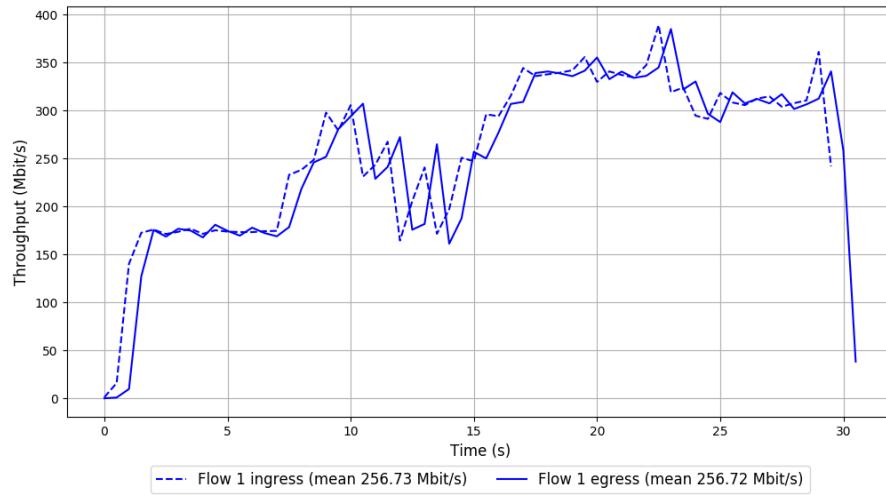


Run 4: Statistics of Copa

```
Start at: 2019-01-25 13:37:35
End at: 2019-01-25 13:38:05
Local clock offset: 0.163 ms
Remote clock offset: -1.177 ms

# Below is generated by plot.py at 2019-01-25 14:43:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 256.72 Mbit/s
95th percentile per-packet one-way delay: 60.122 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 256.72 Mbit/s
95th percentile per-packet one-way delay: 60.122 ms
Loss rate: 0.00%
```

Run 4: Report of Copa — Data Link

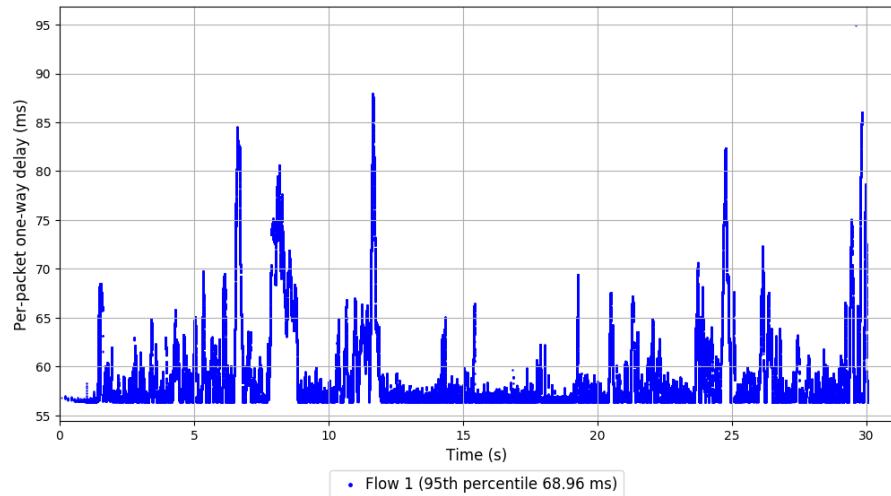
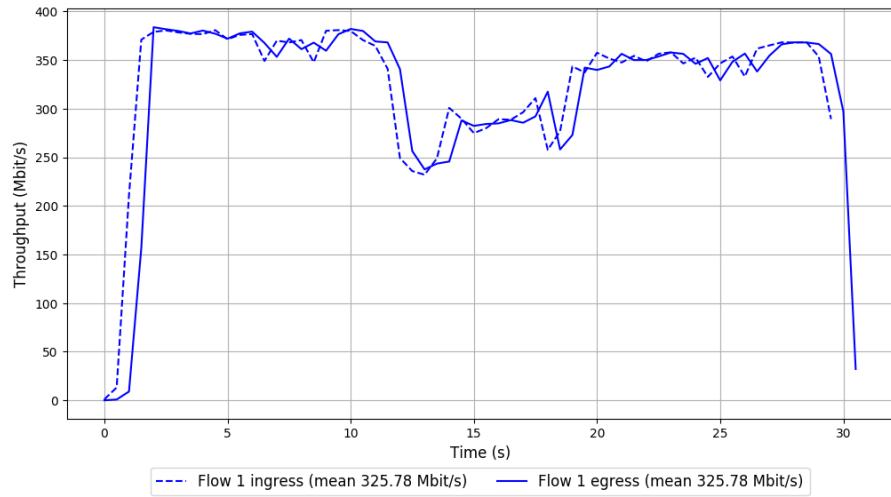


Run 5: Statistics of Copa

```
Start at: 2019-01-25 14:08:49
End at: 2019-01-25 14:09:19
Local clock offset: -0.272 ms
Remote clock offset: -0.727 ms

# Below is generated by plot.py at 2019-01-25 14:46:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 325.78 Mbit/s
95th percentile per-packet one-way delay: 68.960 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 325.78 Mbit/s
95th percentile per-packet one-way delay: 68.960 ms
Loss rate: 0.00%
```

Run 5: Report of Copa — Data Link

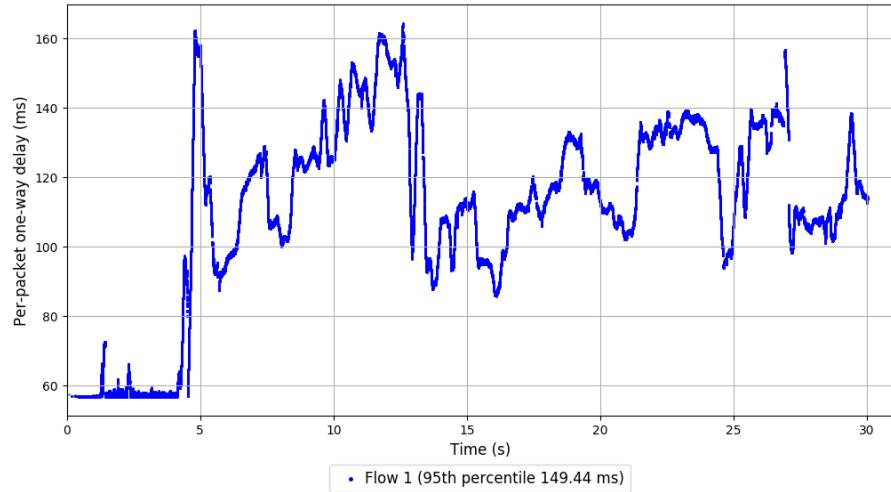
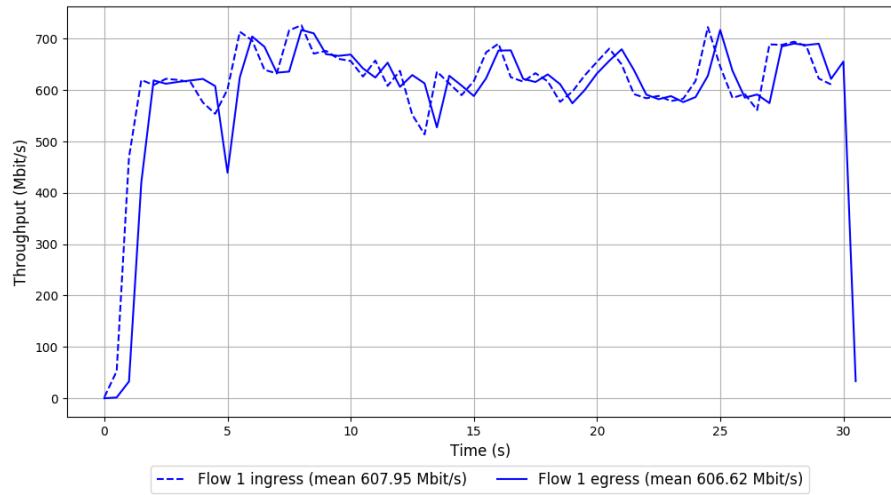


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-01-25 11:39:18
End at: 2019-01-25 11:39:48
Local clock offset: -0.039 ms
Remote clock offset: -0.338 ms

# Below is generated by plot.py at 2019-01-25 14:46:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 606.62 Mbit/s
95th percentile per-packet one-way delay: 149.442 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 606.62 Mbit/s
95th percentile per-packet one-way delay: 149.442 ms
Loss rate: 0.22%
```

Run 1: Report of TCP Cubic — Data Link

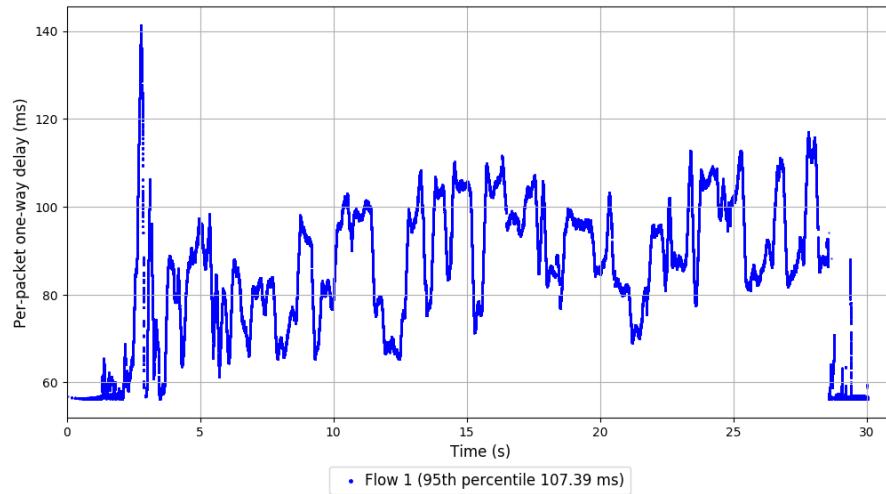
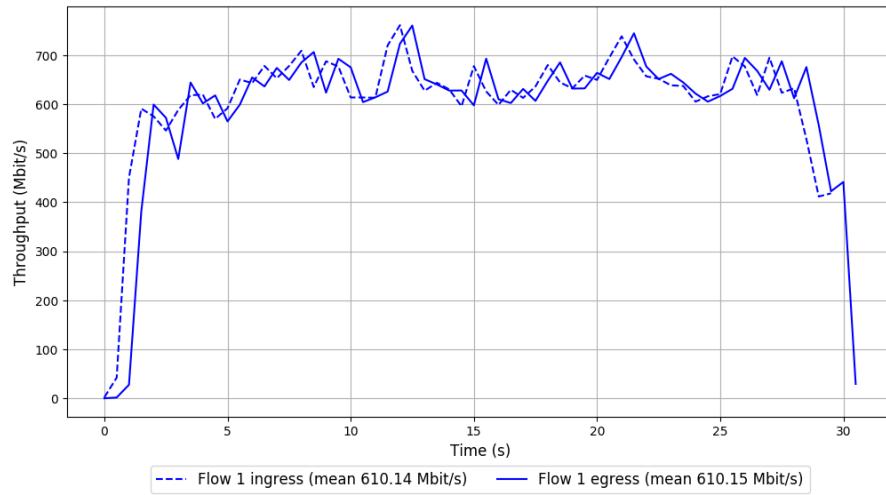


Run 2: Statistics of TCP Cubic

```
Start at: 2019-01-25 12:10:51
End at: 2019-01-25 12:11:21
Local clock offset: -0.146 ms
Remote clock offset: -0.892 ms

# Below is generated by plot.py at 2019-01-25 14:46:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 610.15 Mbit/s
95th percentile per-packet one-way delay: 107.386 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 610.15 Mbit/s
95th percentile per-packet one-way delay: 107.386 ms
Loss rate: 0.00%
```

Run 2: Report of TCP Cubic — Data Link

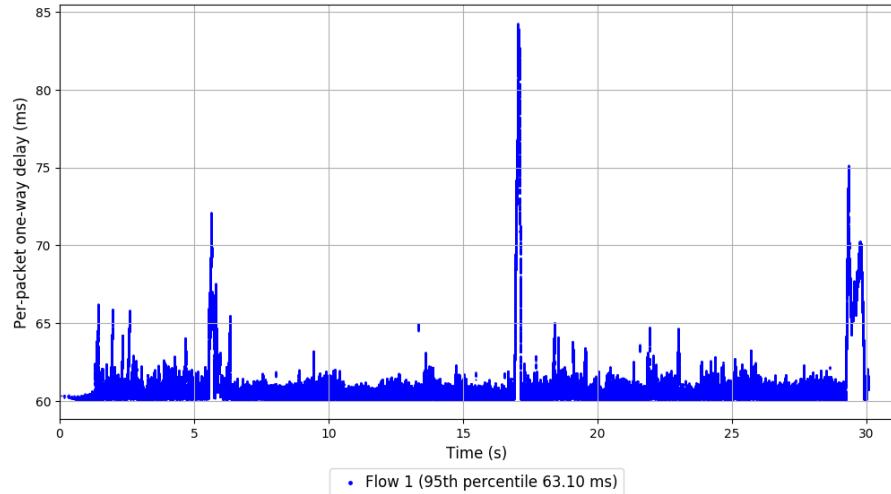
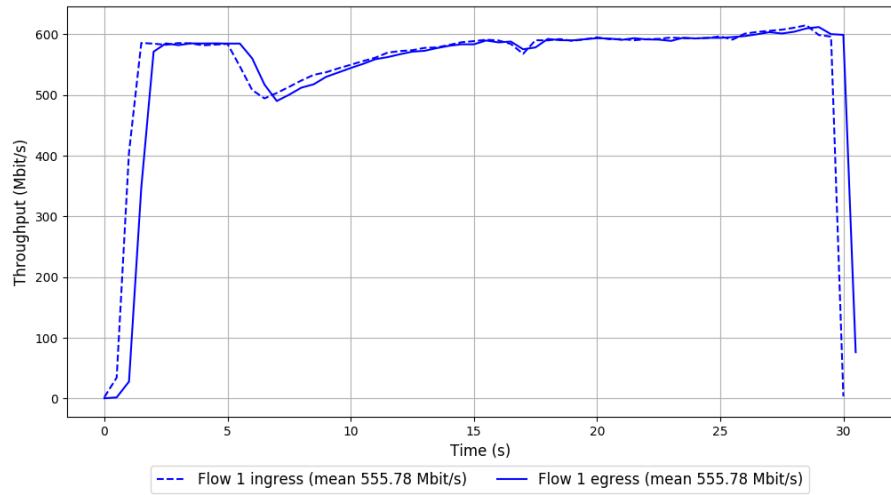


Run 3: Statistics of TCP Cubic

```
Start at: 2019-01-25 12:42:14
End at: 2019-01-25 12:42:44
Local clock offset: -0.131 ms
Remote clock offset: -0.299 ms

# Below is generated by plot.py at 2019-01-25 14:46:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 555.78 Mbit/s
95th percentile per-packet one-way delay: 63.099 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 555.78 Mbit/s
95th percentile per-packet one-way delay: 63.099 ms
Loss rate: 0.01%
```

Run 3: Report of TCP Cubic — Data Link

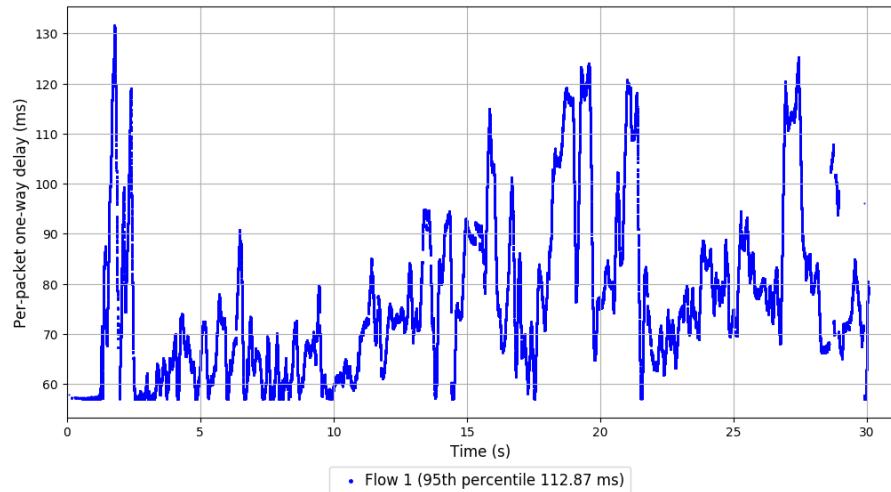
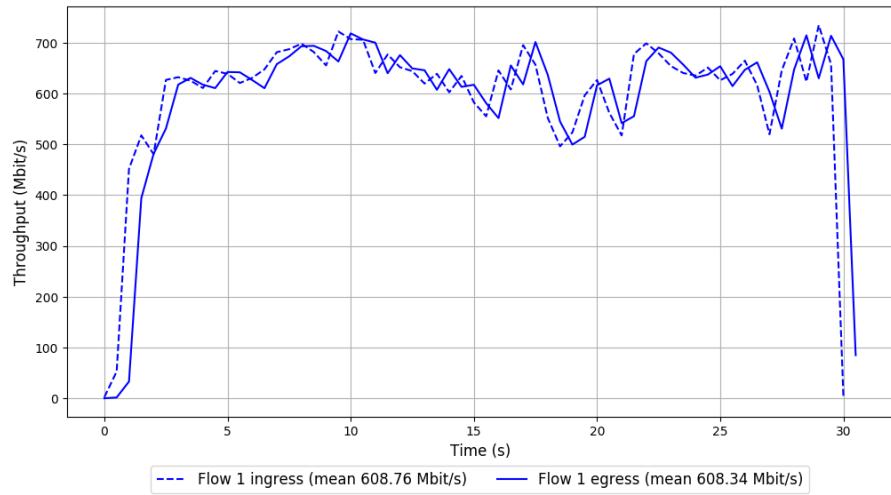


Run 4: Statistics of TCP Cubic

```
Start at: 2019-01-25 13:13:24
End at: 2019-01-25 13:13:54
Local clock offset: -0.124 ms
Remote clock offset: 0.095 ms

# Below is generated by plot.py at 2019-01-25 14:47:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 608.34 Mbit/s
95th percentile per-packet one-way delay: 112.870 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 608.34 Mbit/s
95th percentile per-packet one-way delay: 112.870 ms
Loss rate: 0.07%
```

Run 4: Report of TCP Cubic — Data Link

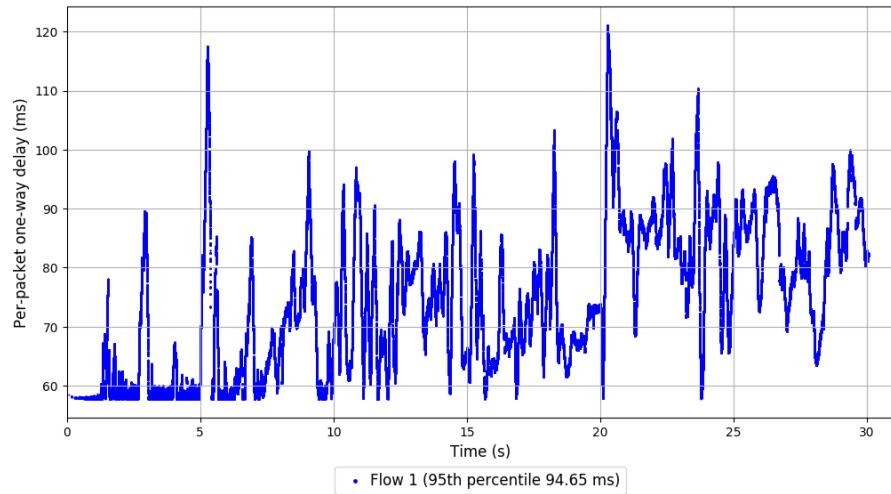
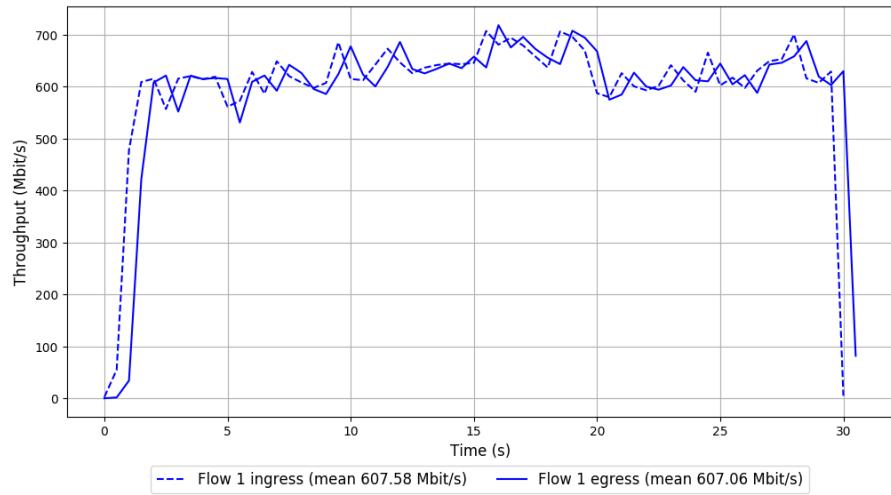


Run 5: Statistics of TCP Cubic

```
Start at: 2019-01-25 13:45:56
End at: 2019-01-25 13:46:26
Local clock offset: 0.294 ms
Remote clock offset: 1.434 ms

# Below is generated by plot.py at 2019-01-25 14:47:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 607.06 Mbit/s
95th percentile per-packet one-way delay: 94.648 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 607.06 Mbit/s
95th percentile per-packet one-way delay: 94.648 ms
Loss rate: 0.08%
```

Run 5: Report of TCP Cubic — Data Link

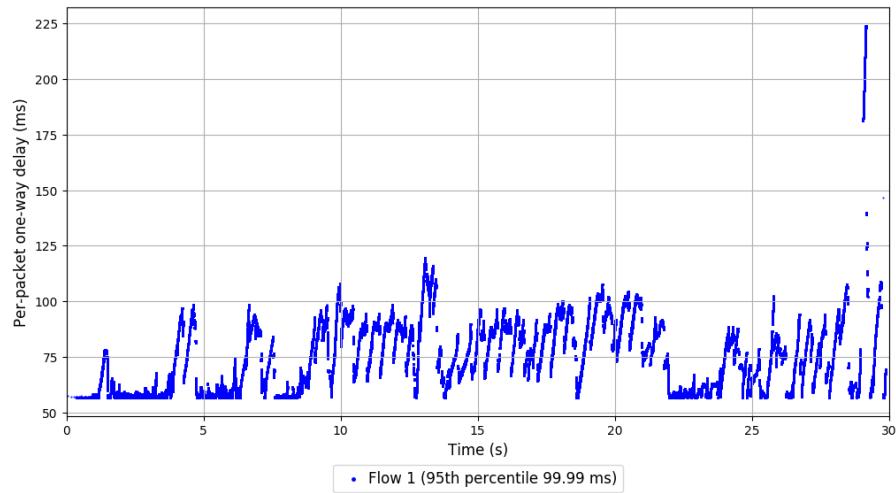
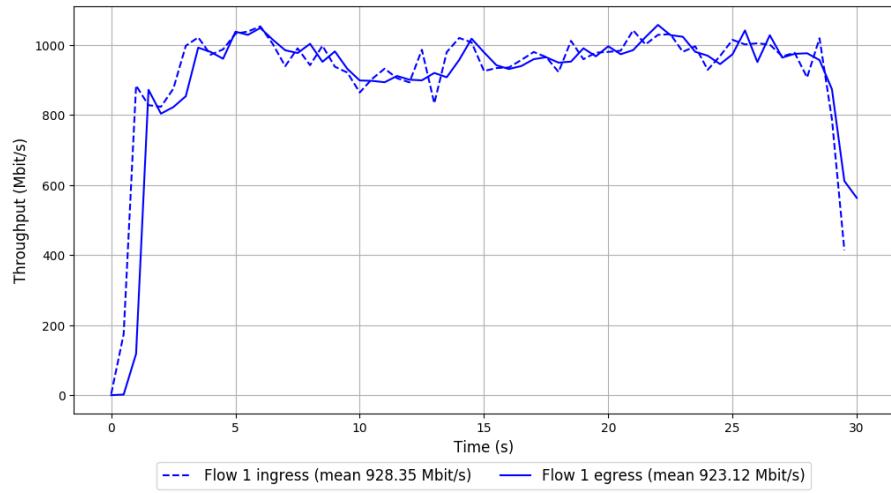


```
Run 1: Statistics of FillP

Start at: 2019-01-25 11:45:14
End at: 2019-01-25 11:45:44
Local clock offset: 0.151 ms
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2019-01-25 14:55:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 923.12 Mbit/s
95th percentile per-packet one-way delay: 99.993 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 923.12 Mbit/s
95th percentile per-packet one-way delay: 99.993 ms
Loss rate: 0.56%
```

Run 1: Report of FillP — Data Link

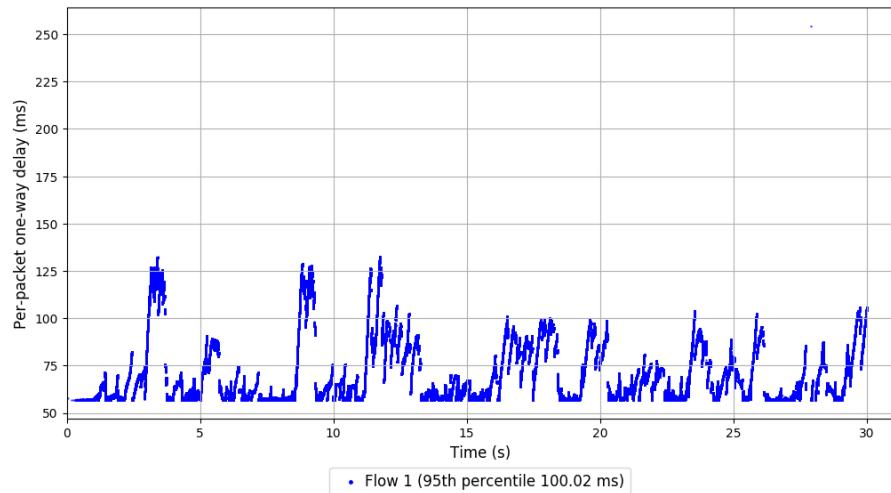
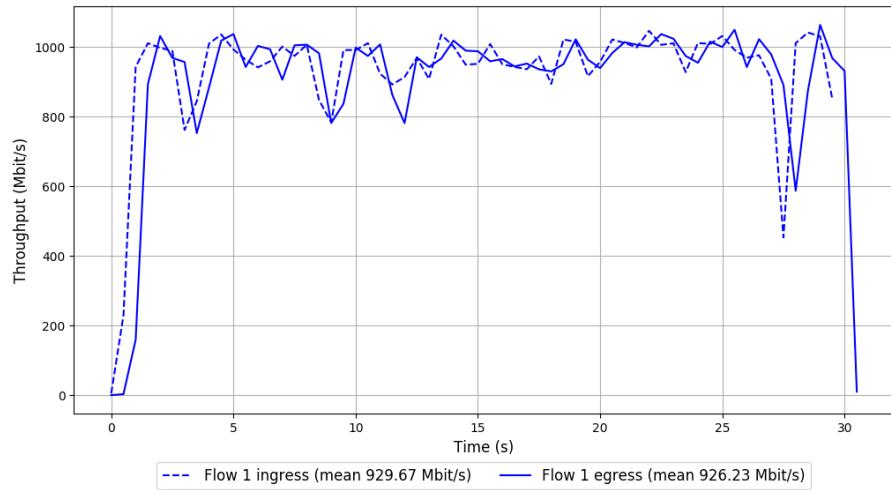


Run 2: Statistics of FillP

```
Start at: 2019-01-25 12:16:49
End at: 2019-01-25 12:17:19
Local clock offset: 0.031 ms
Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2019-01-25 15:06:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 926.23 Mbit/s
95th percentile per-packet one-way delay: 100.023 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 926.23 Mbit/s
95th percentile per-packet one-way delay: 100.023 ms
Loss rate: 0.37%
```

Run 2: Report of FillP — Data Link

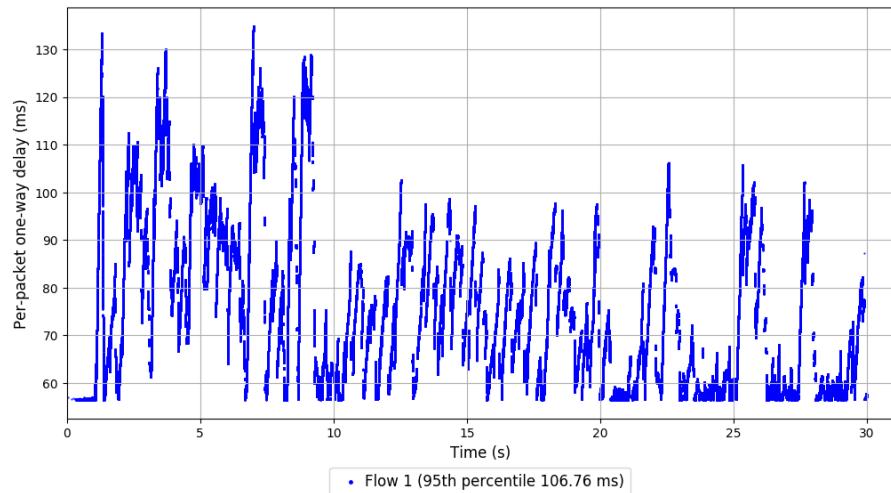
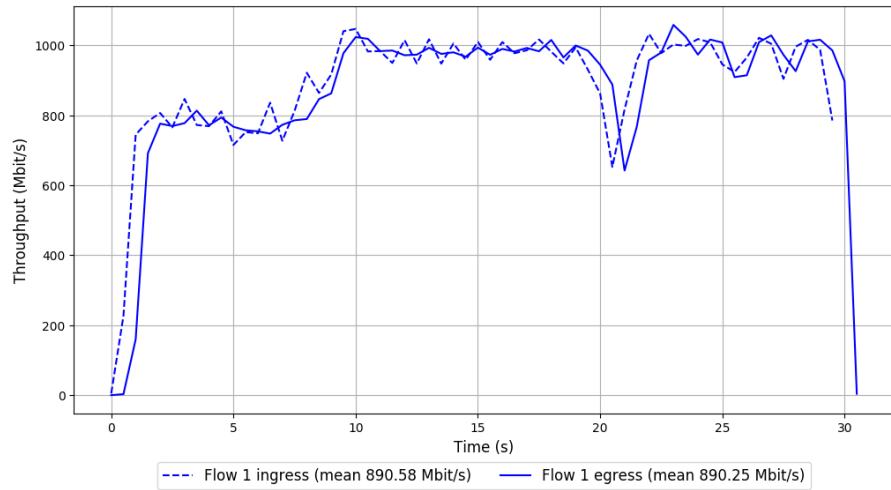


Run 3: Statistics of FillP

```
Start at: 2019-01-25 12:48:08
End at: 2019-01-25 12:48:39
Local clock offset: -0.108 ms
Remote clock offset: -0.953 ms

# Below is generated by plot.py at 2019-01-25 15:07:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 890.25 Mbit/s
95th percentile per-packet one-way delay: 106.760 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 890.25 Mbit/s
95th percentile per-packet one-way delay: 106.760 ms
Loss rate: 0.19%
```

Run 3: Report of FillP — Data Link

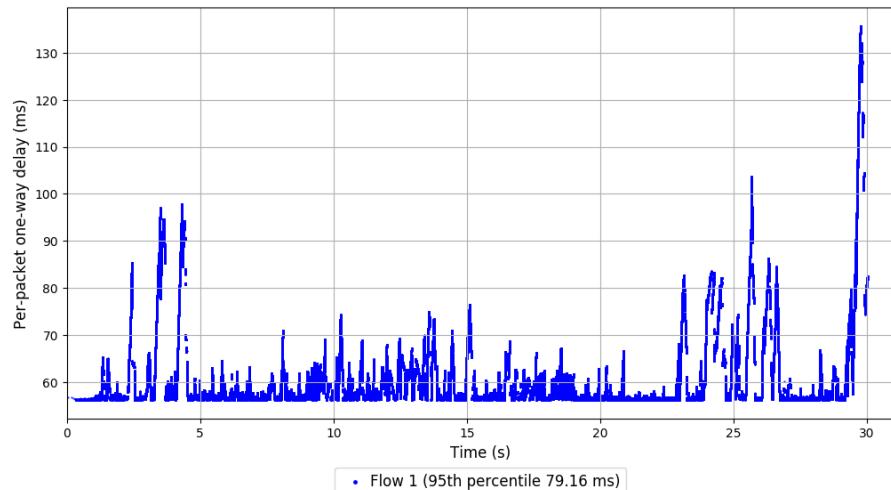
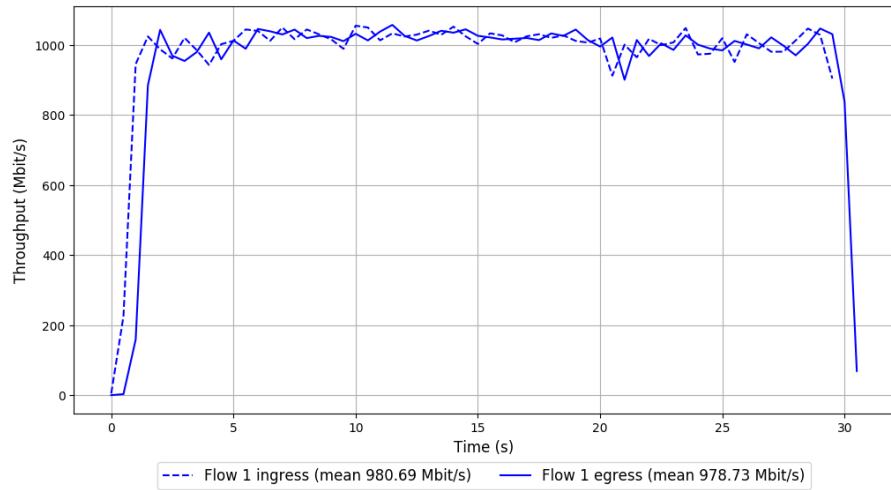


Run 4: Statistics of FillP

```
Start at: 2019-01-25 13:19:27
End at: 2019-01-25 13:19:57
Local clock offset: 0.112 ms
Remote clock offset: -0.717 ms

# Below is generated by plot.py at 2019-01-25 15:09:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 978.73 Mbit/s
95th percentile per-packet one-way delay: 79.157 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 978.73 Mbit/s
95th percentile per-packet one-way delay: 79.157 ms
Loss rate: 0.20%
```

Run 4: Report of FillP — Data Link

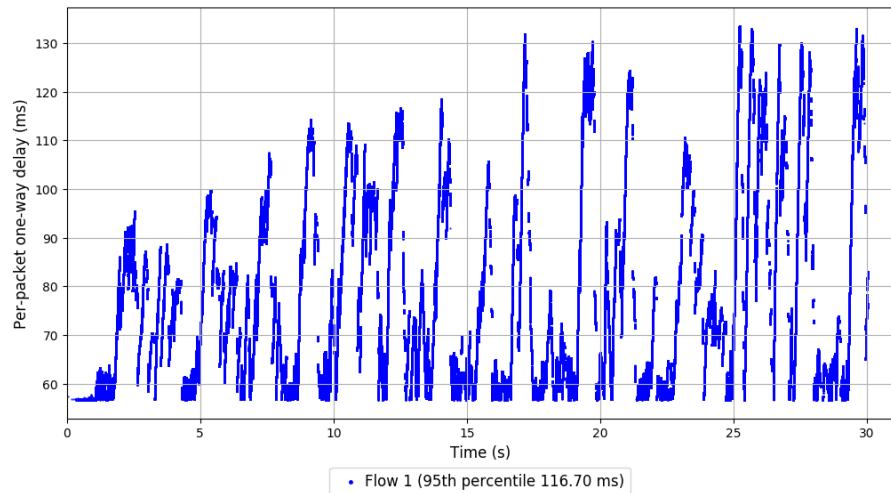
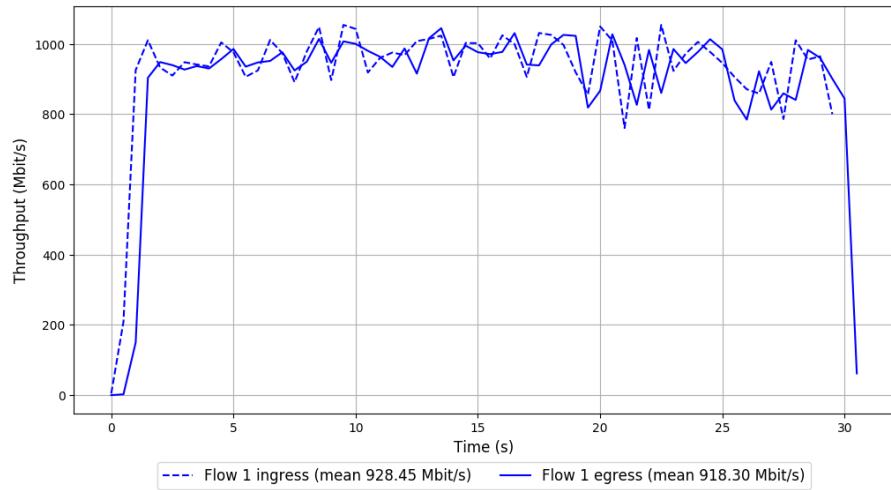


Run 5: Statistics of FillP

```
Start at: 2019-01-25 13:51:54
End at: 2019-01-25 13:52:24
Local clock offset: 0.007 ms
Remote clock offset: -0.323 ms

# Below is generated by plot.py at 2019-01-25 15:09:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 918.30 Mbit/s
95th percentile per-packet one-way delay: 116.700 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 918.30 Mbit/s
95th percentile per-packet one-way delay: 116.700 ms
Loss rate: 1.09%
```

Run 5: Report of FillP — Data Link

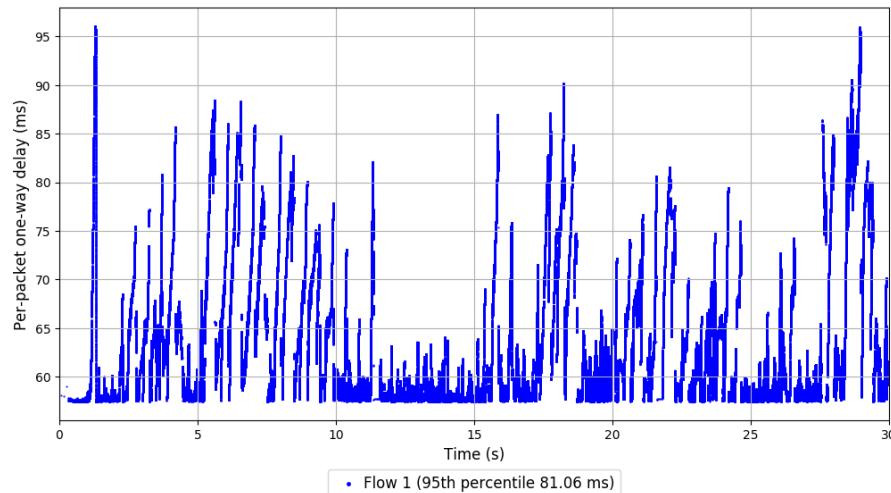
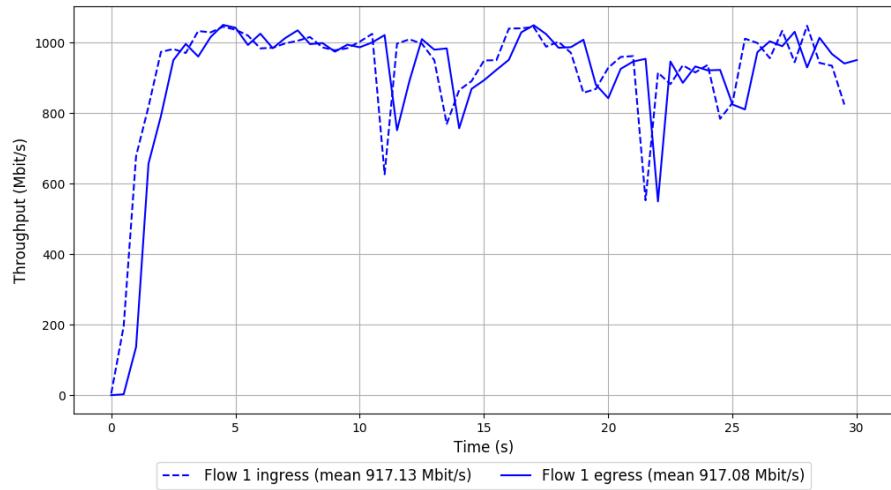


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-01-25 11:51:48
End at: 2019-01-25 11:52:18
Local clock offset: -0.498 ms
Remote clock offset: 0.118 ms

# Below is generated by plot.py at 2019-01-25 15:09:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 917.08 Mbit/s
95th percentile per-packet one-way delay: 81.062 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 917.08 Mbit/s
95th percentile per-packet one-way delay: 81.062 ms
Loss rate: 0.00%
```

Run 1: Report of FillP-Sheep — Data Link

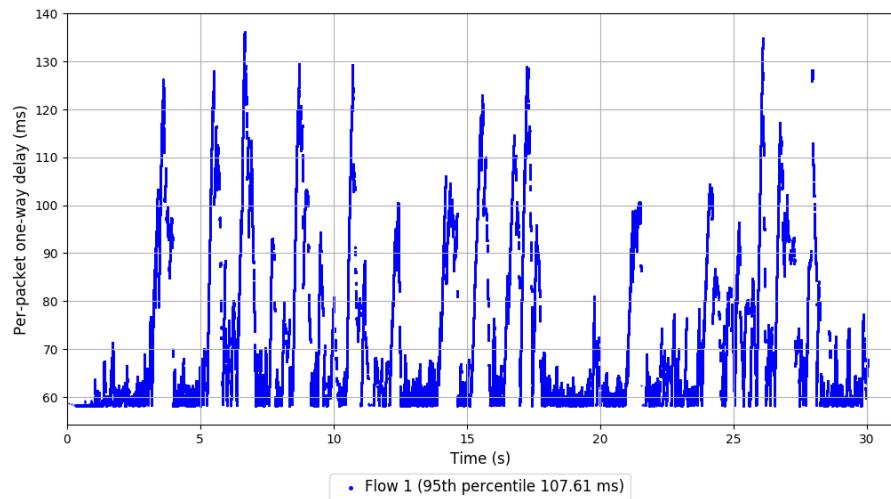
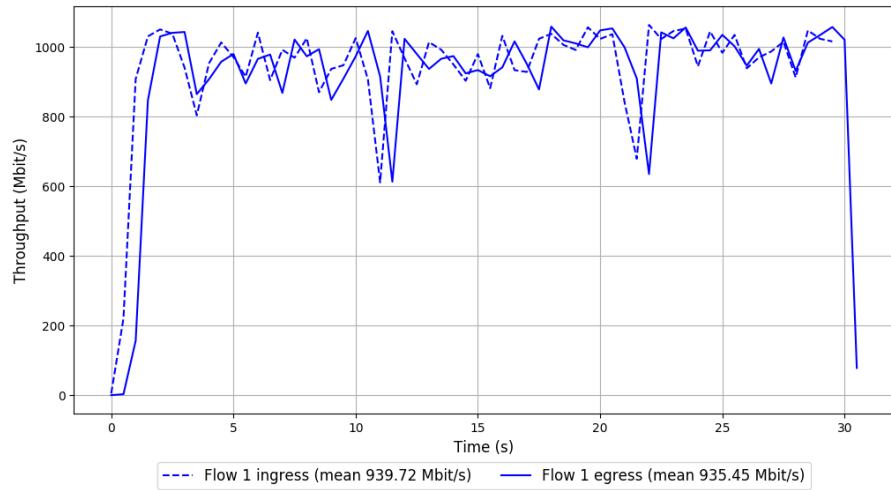


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-01-25 12:23:22
End at: 2019-01-25 12:23:52
Local clock offset: -0.52 ms
Remote clock offset: 0.427 ms

# Below is generated by plot.py at 2019-01-25 15:09:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 935.45 Mbit/s
95th percentile per-packet one-way delay: 107.607 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 935.45 Mbit/s
95th percentile per-packet one-way delay: 107.607 ms
Loss rate: 0.45%
```

Run 2: Report of FillP-Sheep — Data Link

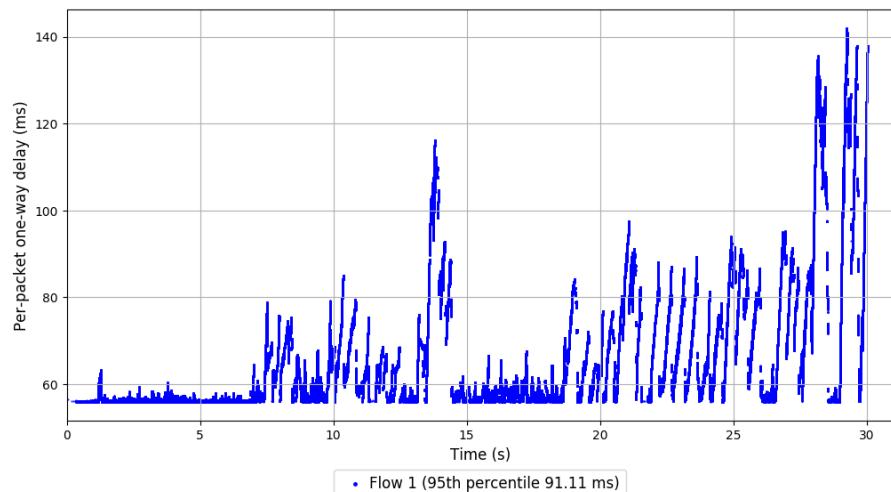
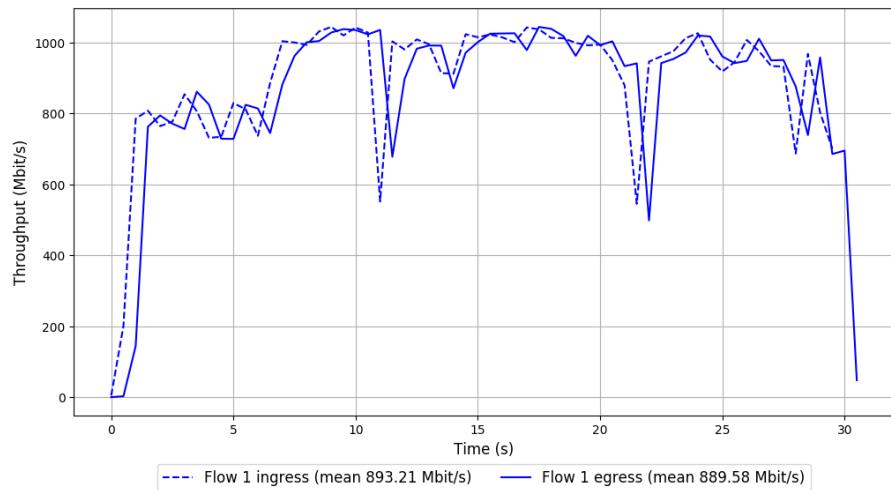


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-01-25 12:54:35
End at: 2019-01-25 12:55:05
Local clock offset: 0.172 ms
Remote clock offset: -0.808 ms

# Below is generated by plot.py at 2019-01-25 15:09:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 889.58 Mbit/s
95th percentile per-packet one-way delay: 91.107 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 889.58 Mbit/s
95th percentile per-packet one-way delay: 91.107 ms
Loss rate: 0.41%
```

Run 3: Report of FillP-Sheep — Data Link

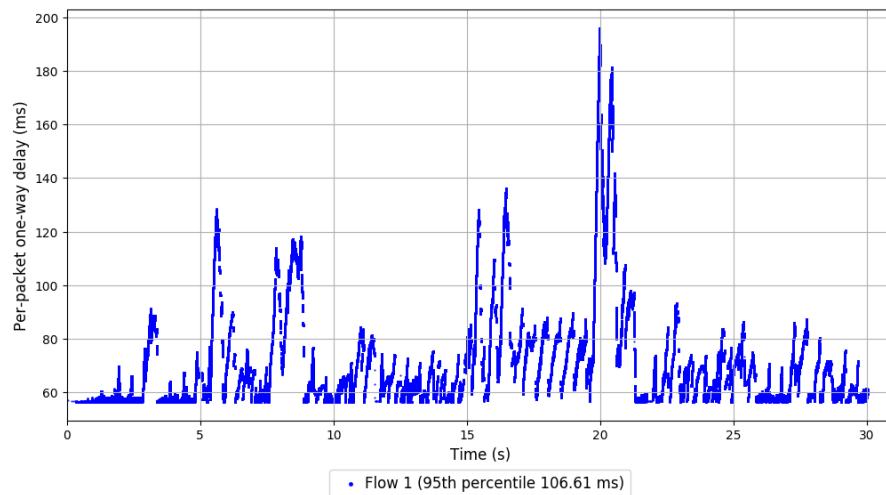
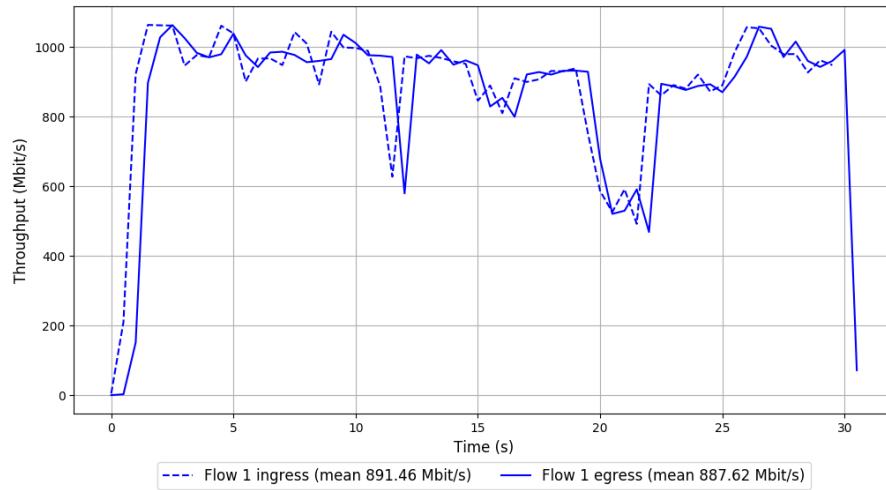


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-01-25 13:26:35
End at: 2019-01-25 13:27:05
Local clock offset: -0.183 ms
Remote clock offset: -0.385 ms

# Below is generated by plot.py at 2019-01-25 15:19:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 887.62 Mbit/s
95th percentile per-packet one-way delay: 106.610 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 887.62 Mbit/s
95th percentile per-packet one-way delay: 106.610 ms
Loss rate: 0.43%
```

Run 4: Report of FillP-Sheep — Data Link

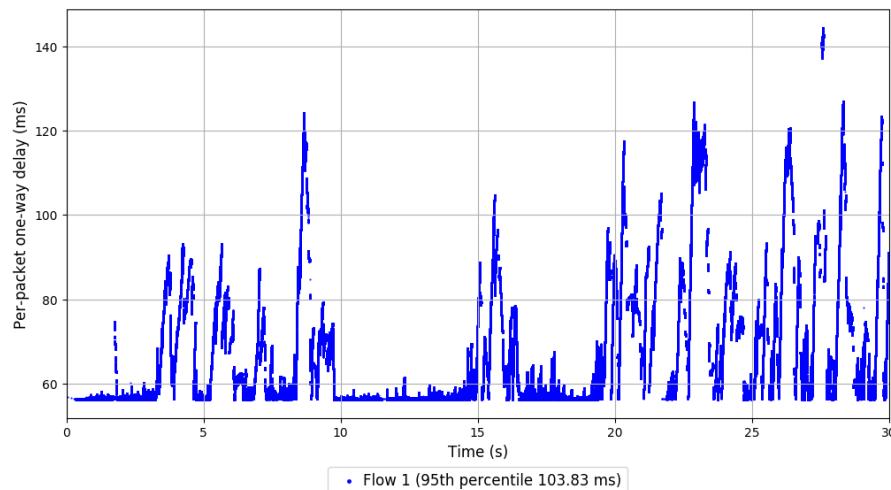
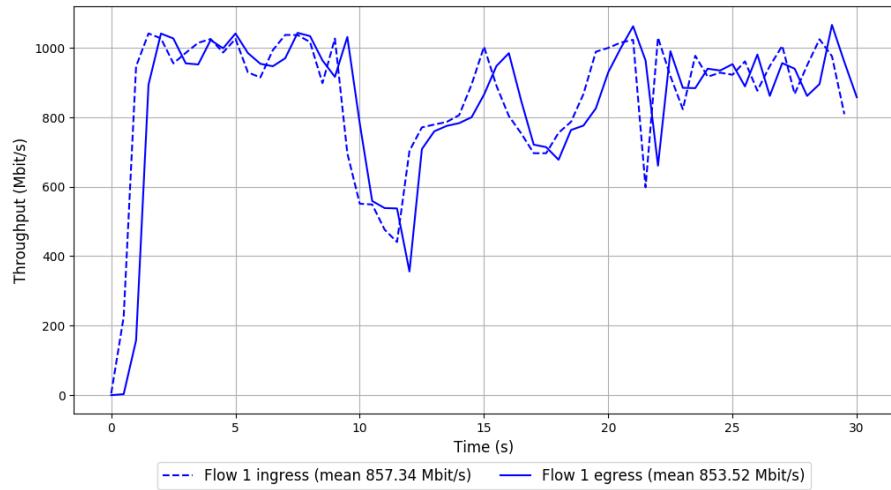


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-01-25 13:58:26
End at: 2019-01-25 13:58:56
Local clock offset: -0.029 ms
Remote clock offset: -0.638 ms

# Below is generated by plot.py at 2019-01-25 15:26:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 853.52 Mbit/s
95th percentile per-packet one-way delay: 103.830 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 853.52 Mbit/s
95th percentile per-packet one-way delay: 103.830 ms
Loss rate: 0.44%
```

Run 5: Report of FillP-Sheep — Data Link

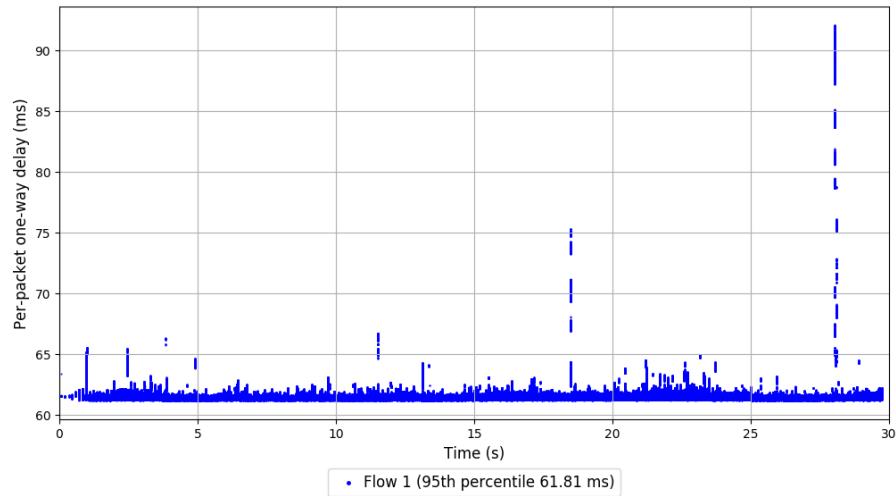
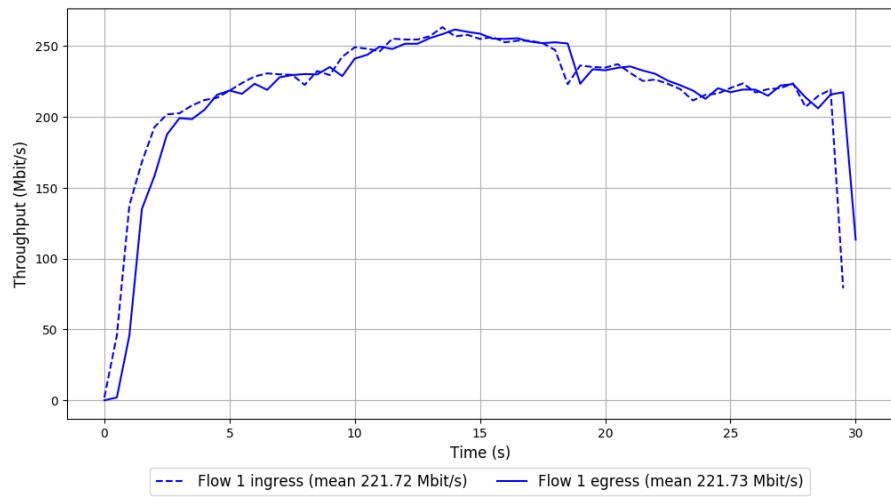


Run 1: Statistics of Indigo

```
Start at: 2019-01-25 12:04:01
End at: 2019-01-25 12:04:31
Local clock offset: -0.207 ms
Remote clock offset: 0.606 ms

# Below is generated by plot.py at 2019-01-25 15:26:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 221.73 Mbit/s
95th percentile per-packet one-way delay: 61.811 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 221.73 Mbit/s
95th percentile per-packet one-way delay: 61.811 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

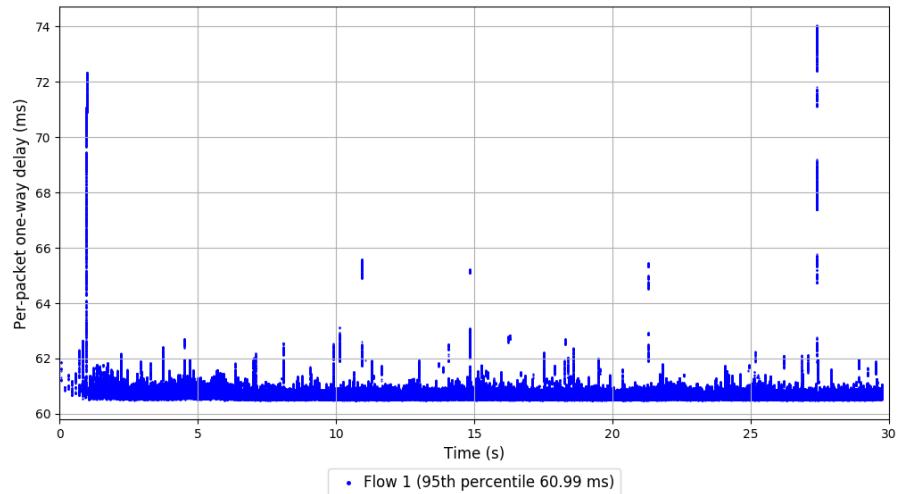
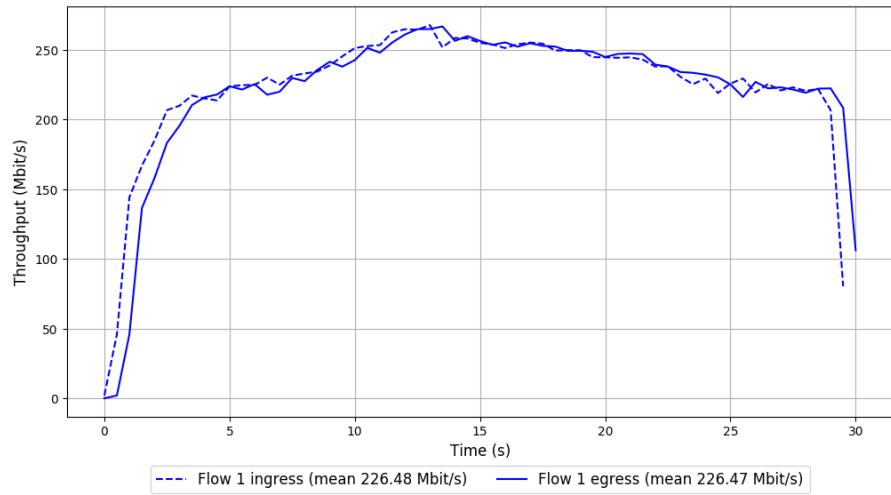


Run 2: Statistics of Indigo

```
Start at: 2019-01-25 12:35:25
End at: 2019-01-25 12:35:56
Local clock offset: -0.195 ms
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2019-01-25 15:26:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 226.47 Mbit/s
95th percentile per-packet one-way delay: 60.988 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 226.47 Mbit/s
95th percentile per-packet one-way delay: 60.988 ms
Loss rate: 0.02%
```

Run 2: Report of Indigo — Data Link

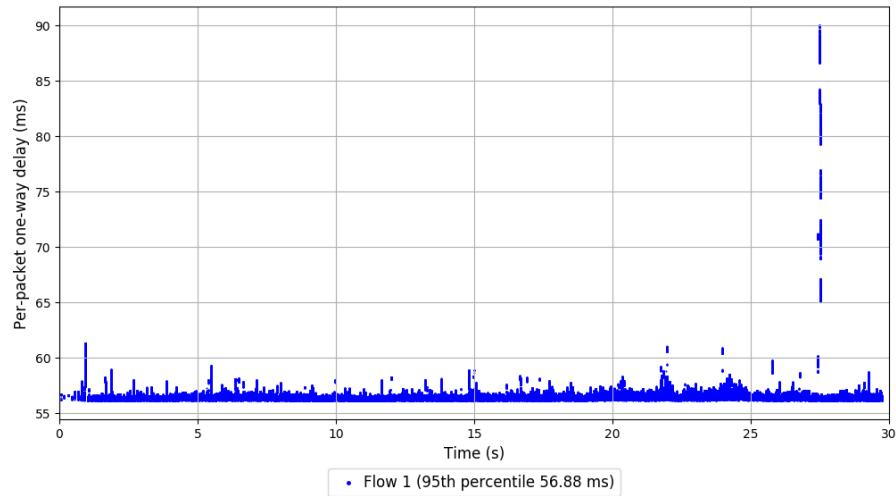
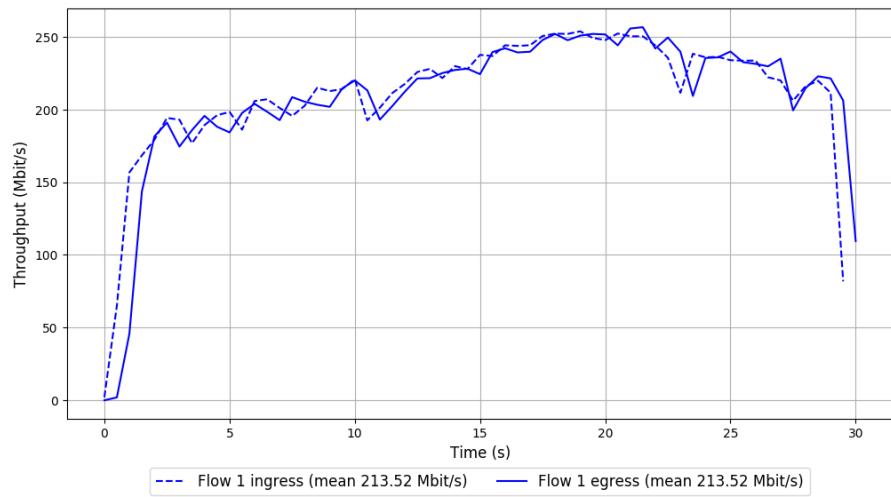


Run 3: Statistics of Indigo

```
Start at: 2019-01-25 13:06:39
End at: 2019-01-25 13:07:09
Local clock offset: -0.061 ms
Remote clock offset: -0.673 ms

# Below is generated by plot.py at 2019-01-25 15:26:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 213.52 Mbit/s
95th percentile per-packet one-way delay: 56.882 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 213.52 Mbit/s
95th percentile per-packet one-way delay: 56.882 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo — Data Link

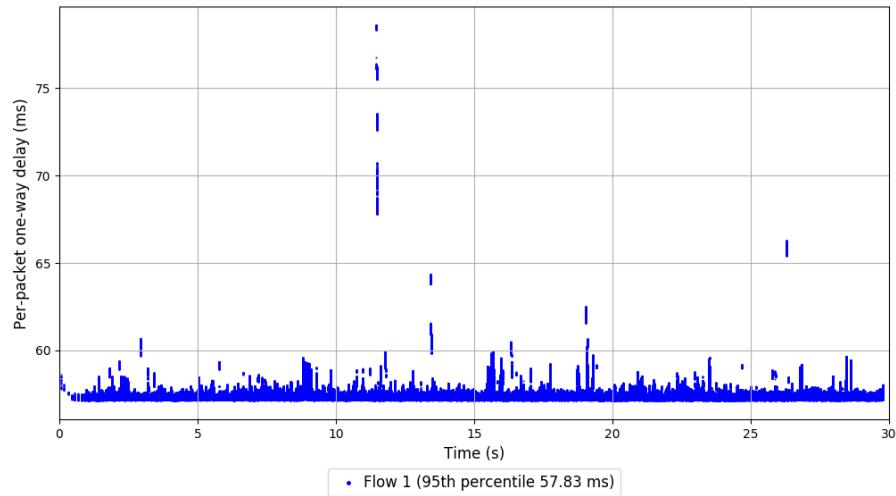
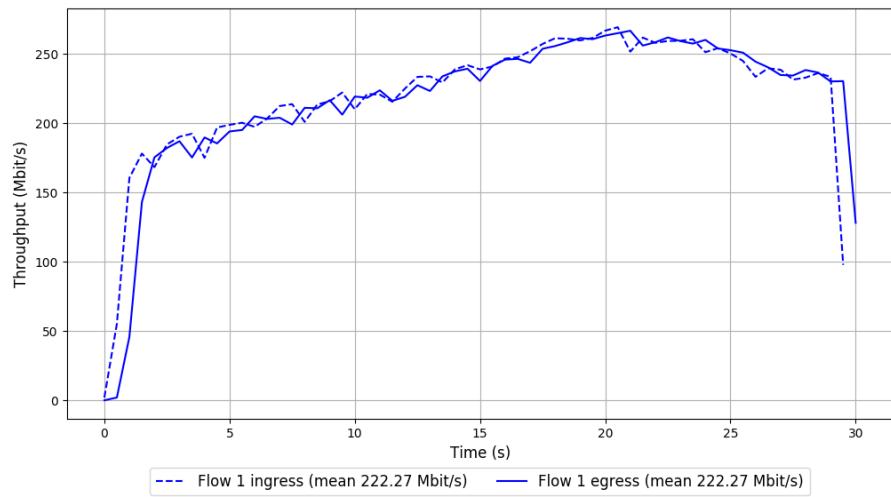


Run 4: Statistics of Indigo

```
Start at: 2019-01-25 13:39:08
End at: 2019-01-25 13:39:38
Local clock offset: 0.08 ms
Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2019-01-25 15:26:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.27 Mbit/s
95th percentile per-packet one-way delay: 57.825 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 222.27 Mbit/s
95th percentile per-packet one-way delay: 57.825 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo — Data Link

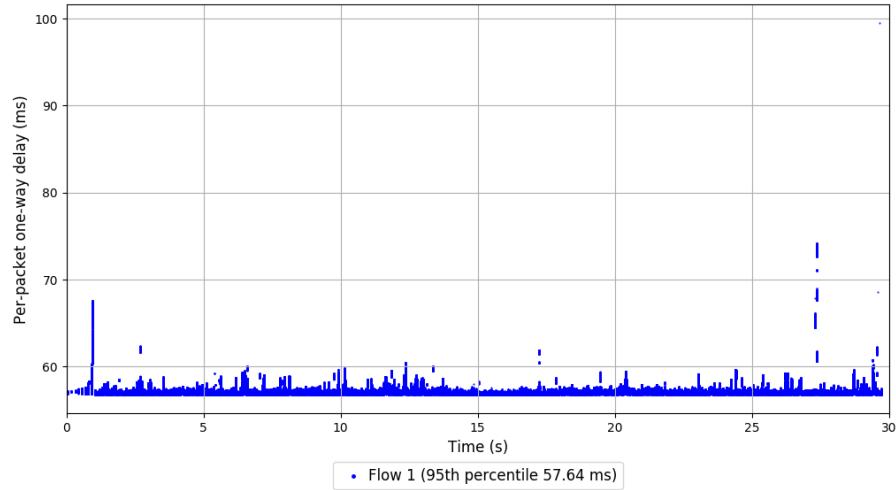
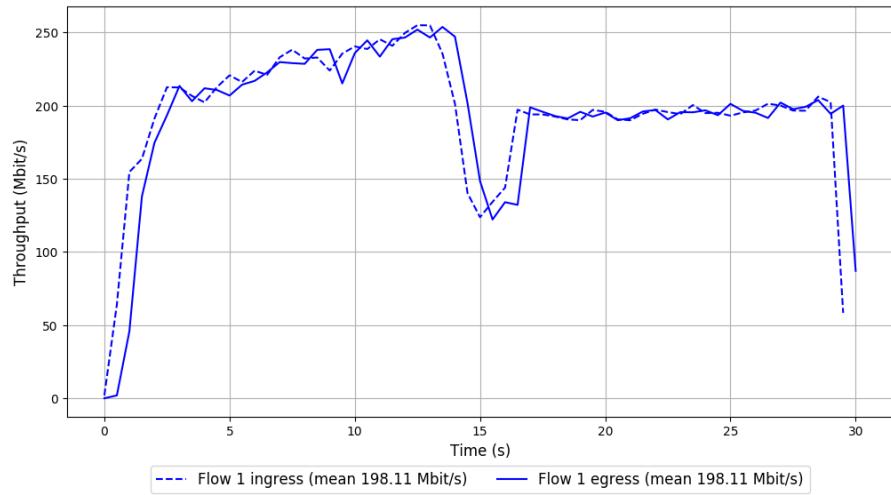


Run 5: Statistics of Indigo

```
Start at: 2019-01-25 14:10:27
End at: 2019-01-25 14:10:57
Local clock offset: 0.148 ms
Remote clock offset: -0.247 ms

# Below is generated by plot.py at 2019-01-25 15:26:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 198.11 Mbit/s
95th percentile per-packet one-way delay: 57.636 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 198.11 Mbit/s
95th percentile per-packet one-way delay: 57.636 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo — Data Link

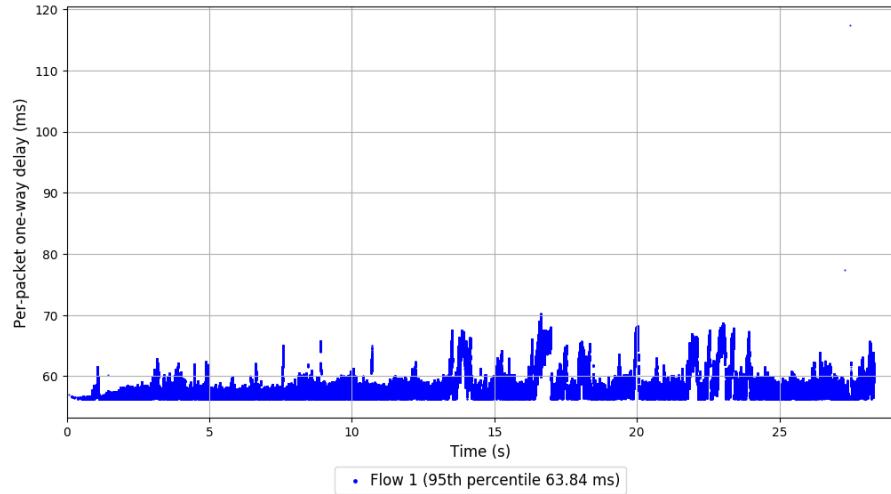
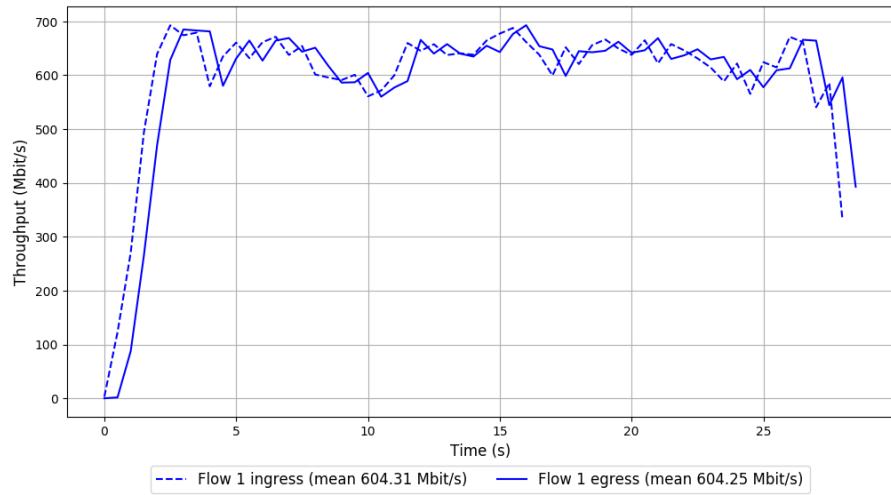


```
Run 1: Statistics of Indigo-MusesC3
```

```
Start at: 2019-01-25 11:54:42
End at: 2019-01-25 11:55:12
Local clock offset: 0.302 ms
Remote clock offset: -0.223 ms

# Below is generated by plot.py at 2019-01-25 15:26:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 604.25 Mbit/s
95th percentile per-packet one-way delay: 63.837 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 604.25 Mbit/s
95th percentile per-packet one-way delay: 63.837 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo-MusesC3 — Data Link

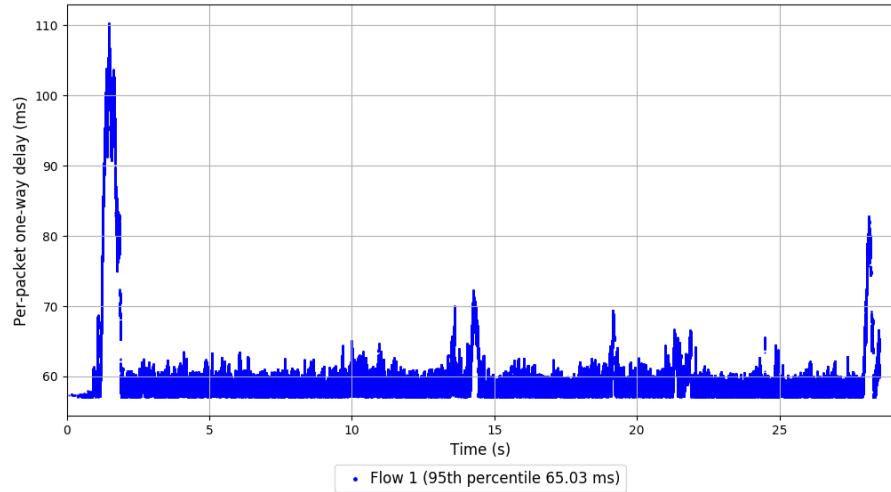
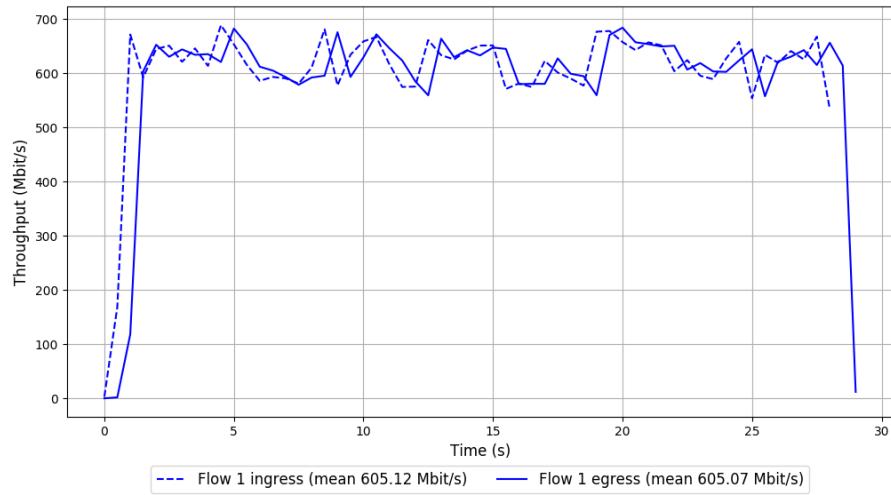


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-01-25 12:26:16
End at: 2019-01-25 12:26:46
Local clock offset: -0.212 ms
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2019-01-25 15:27:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 605.07 Mbit/s
95th percentile per-packet one-way delay: 65.030 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 605.07 Mbit/s
95th percentile per-packet one-way delay: 65.030 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-MusesC3 — Data Link

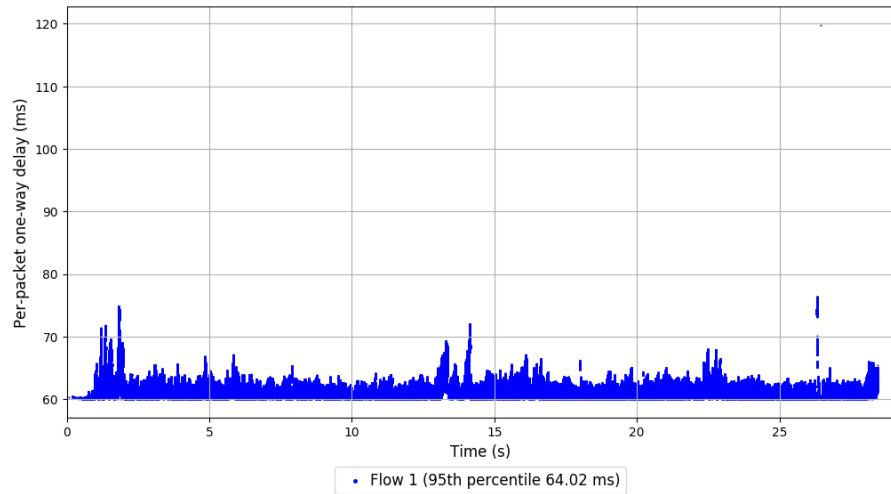
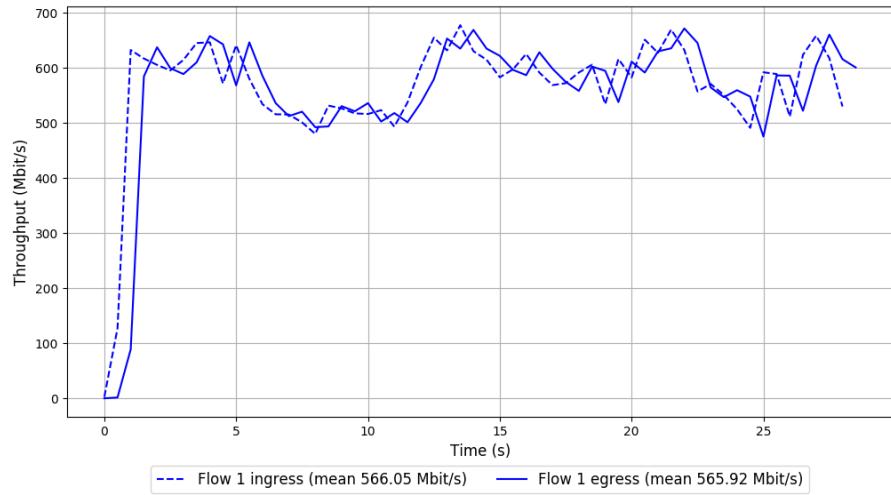


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-01-25 12:57:27
End at: 2019-01-25 12:57:57
Local clock offset: 0.031 ms
Remote clock offset: -0.305 ms

# Below is generated by plot.py at 2019-01-25 15:27:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 565.92 Mbit/s
95th percentile per-packet one-way delay: 64.017 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 565.92 Mbit/s
95th percentile per-packet one-way delay: 64.017 ms
Loss rate: 0.03%
```

Run 3: Report of Indigo-MusesC3 — Data Link

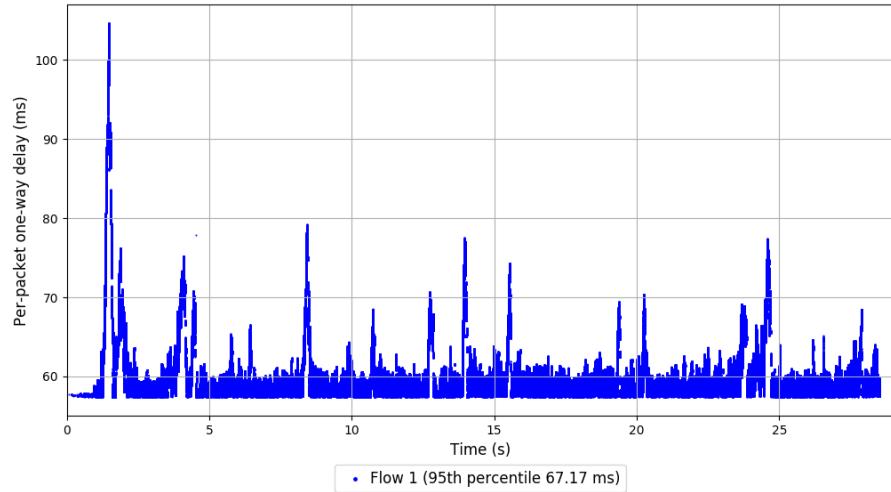
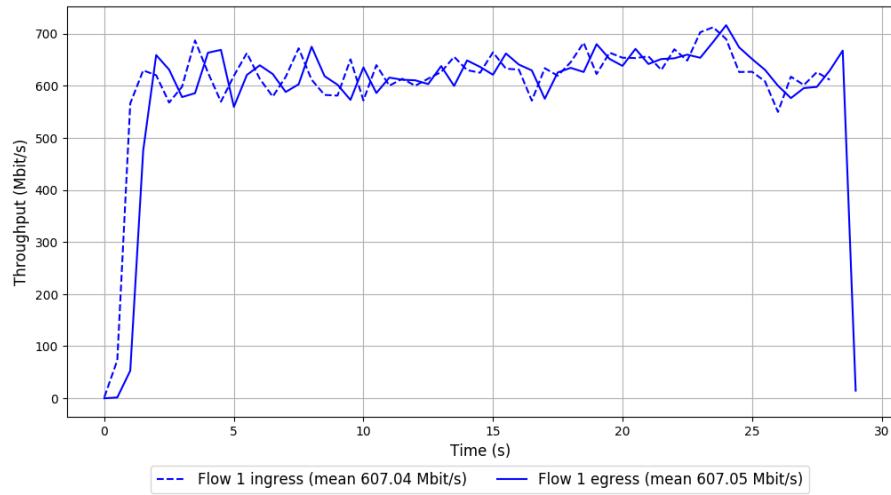


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-01-25 13:29:32
End at: 2019-01-25 13:30:02
Local clock offset: -0.282 ms
Remote clock offset: 0.088 ms

# Below is generated by plot.py at 2019-01-25 15:28:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 607.05 Mbit/s
95th percentile per-packet one-way delay: 67.168 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 607.05 Mbit/s
95th percentile per-packet one-way delay: 67.168 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-MusesC3 — Data Link

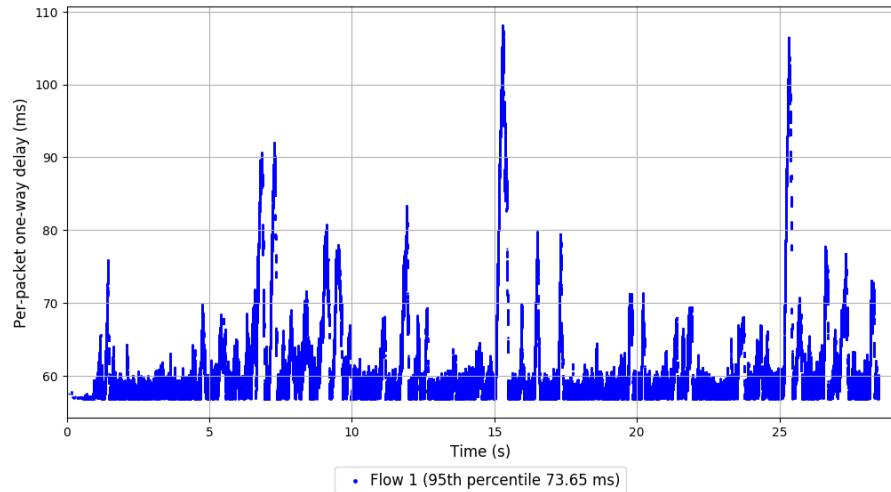
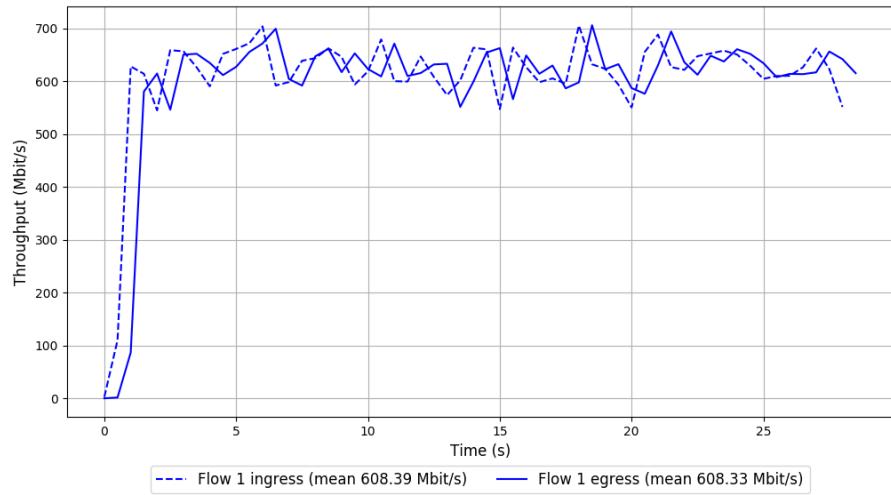


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-01-25 14:01:19
End at: 2019-01-25 14:01:49
Local clock offset: -0.117 ms
Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2019-01-25 15:28:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 608.33 Mbit/s
95th percentile per-packet one-way delay: 73.652 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 608.33 Mbit/s
95th percentile per-packet one-way delay: 73.652 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesC3 — Data Link

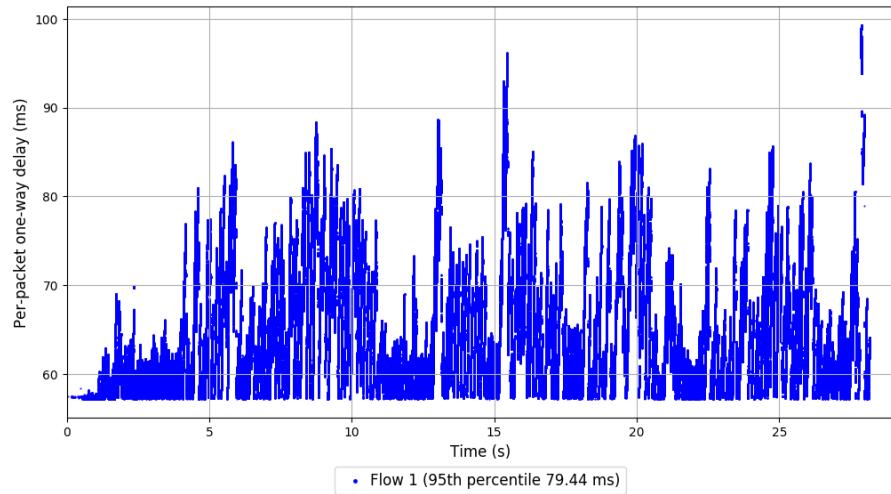
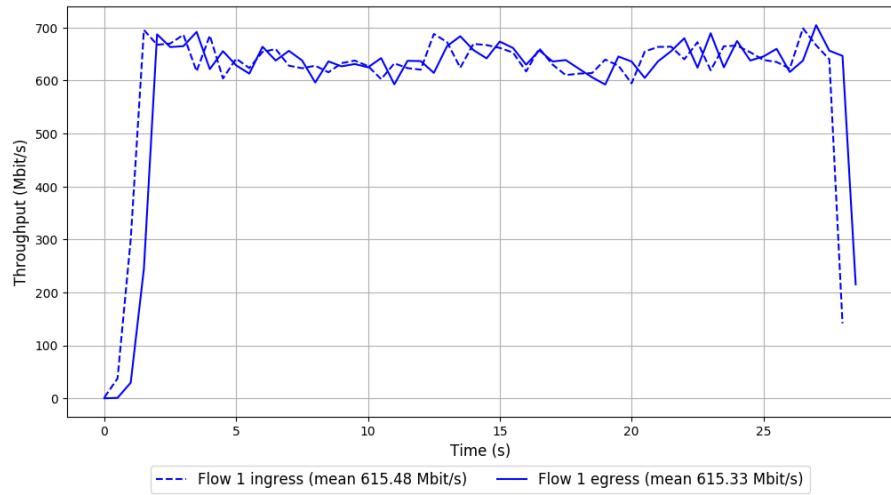


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-01-25 11:48:31
End at: 2019-01-25 11:49:01
Local clock offset: -0.459 ms
Remote clock offset: -0.567 ms

# Below is generated by plot.py at 2019-01-25 15:29:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 615.33 Mbit/s
95th percentile per-packet one-way delay: 79.435 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 615.33 Mbit/s
95th percentile per-packet one-way delay: 79.435 ms
Loss rate: 0.02%
```

Run 1: Report of Indigo-MusesC5 — Data Link

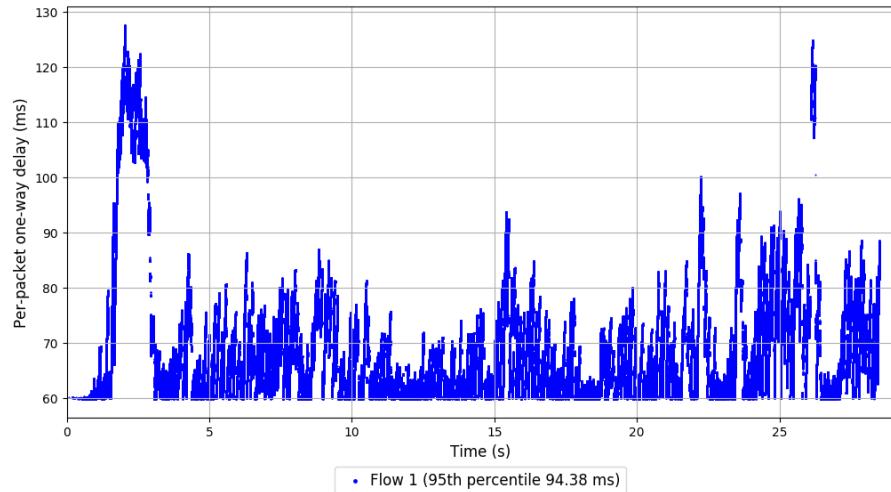
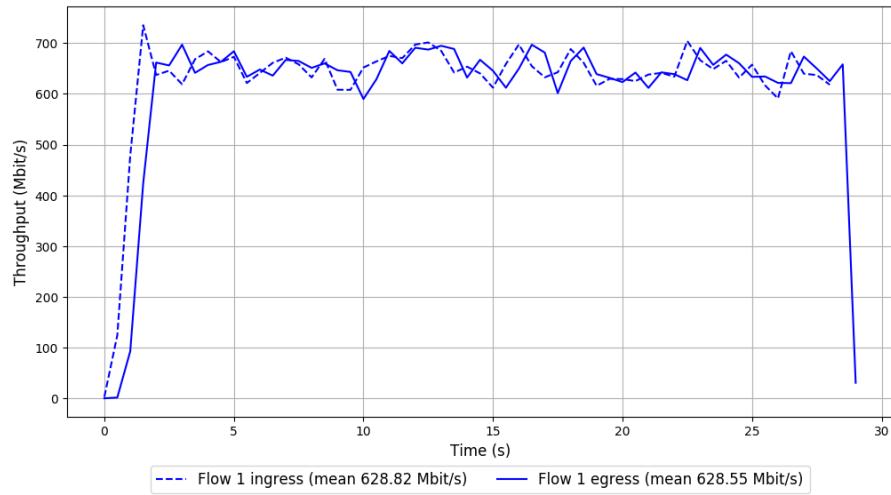


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-01-25 12:20:07
End at: 2019-01-25 12:20:37
Local clock offset: -0.579 ms
Remote clock offset: -0.862 ms

# Below is generated by plot.py at 2019-01-25 15:31:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 628.55 Mbit/s
95th percentile per-packet one-way delay: 94.378 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 628.55 Mbit/s
95th percentile per-packet one-way delay: 94.378 ms
Loss rate: 0.05%
```

Run 2: Report of Indigo-MusesC5 — Data Link

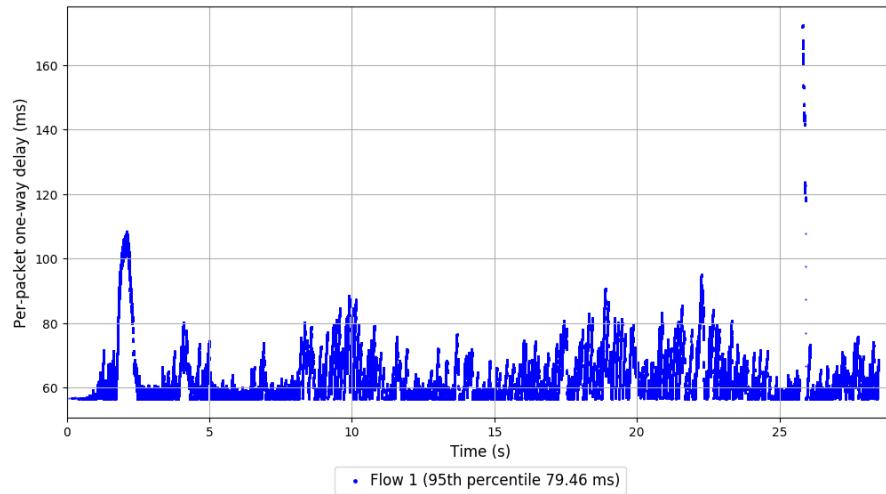
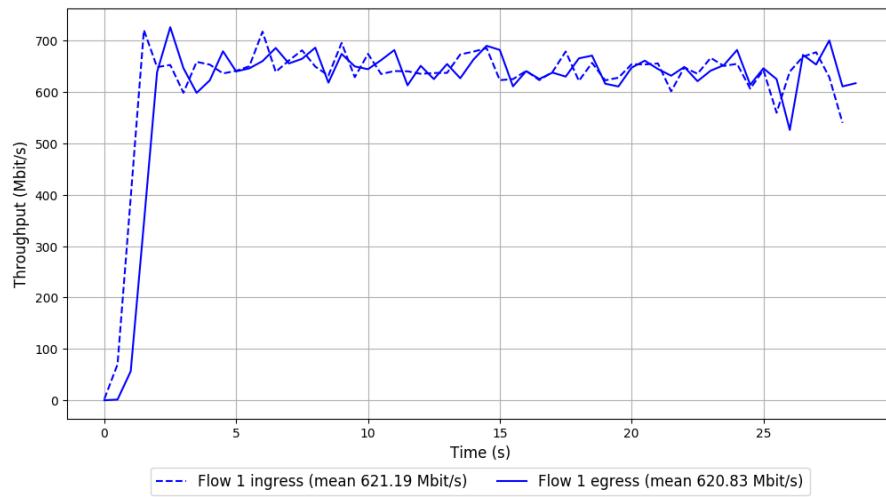


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-01-25 12:51:20
End at: 2019-01-25 12:51:50
Local clock offset: 0.058 ms
Remote clock offset: -0.13 ms

# Below is generated by plot.py at 2019-01-25 15:32:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 620.83 Mbit/s
95th percentile per-packet one-way delay: 79.456 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 620.83 Mbit/s
95th percentile per-packet one-way delay: 79.456 ms
Loss rate: 0.05%
```

Run 3: Report of Indigo-MusesC5 — Data Link

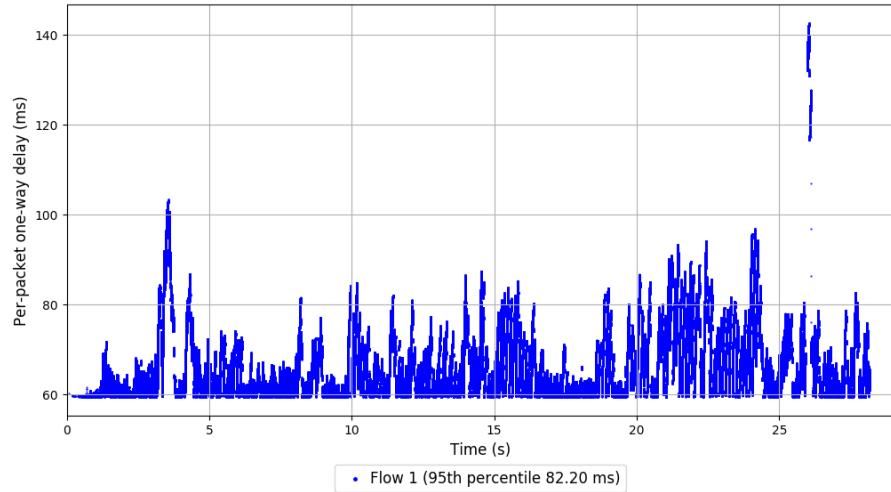
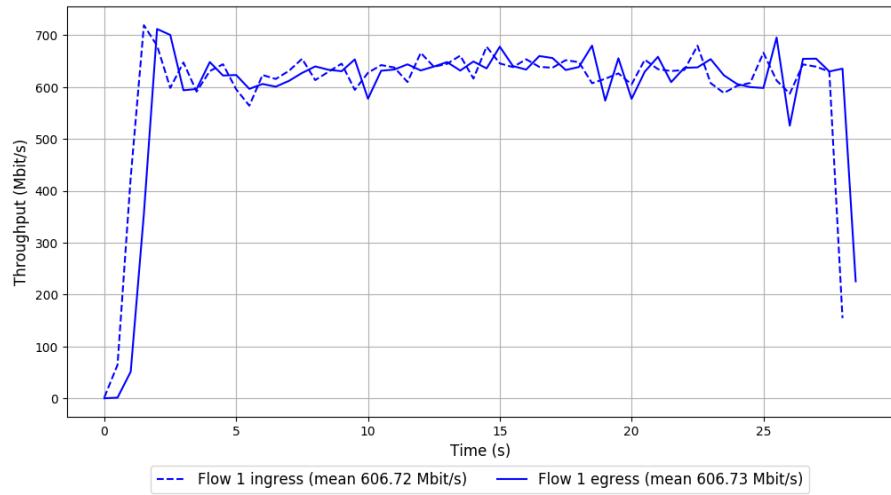


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-01-25 13:23:09
End at: 2019-01-25 13:23:39
Local clock offset: 0.179 ms
Remote clock offset: -0.598 ms

# Below is generated by plot.py at 2019-01-25 15:37:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 606.73 Mbit/s
95th percentile per-packet one-way delay: 82.198 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 606.73 Mbit/s
95th percentile per-packet one-way delay: 82.198 ms
Loss rate: 0.01%
```

Run 4: Report of Indigo-MusesC5 — Data Link

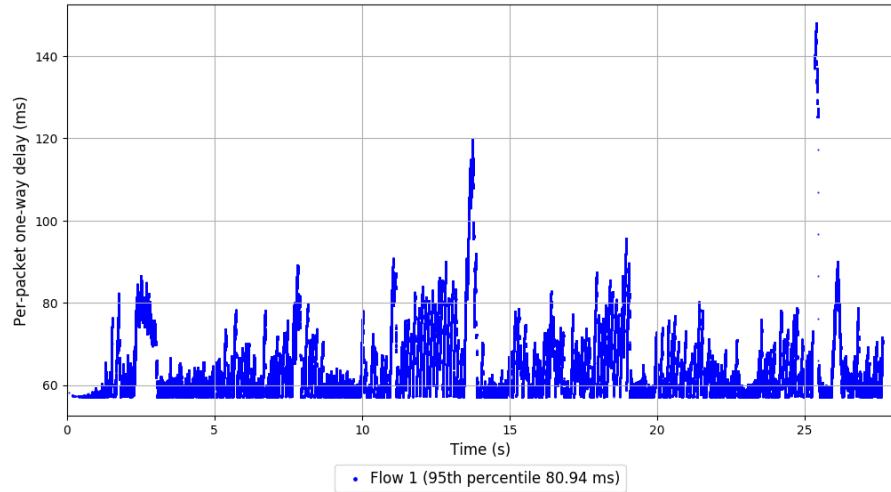
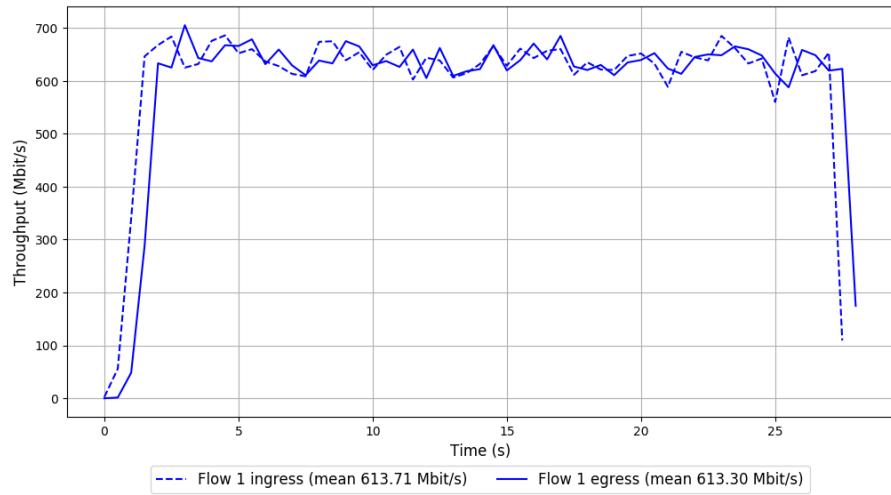


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-01-25 13:55:12
End at: 2019-01-25 13:55:42
Local clock offset: -0.417 ms
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2019-01-25 15:38:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 613.30 Mbit/s
95th percentile per-packet one-way delay: 80.939 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 613.30 Mbit/s
95th percentile per-packet one-way delay: 80.939 ms
Loss rate: 0.07%
```

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

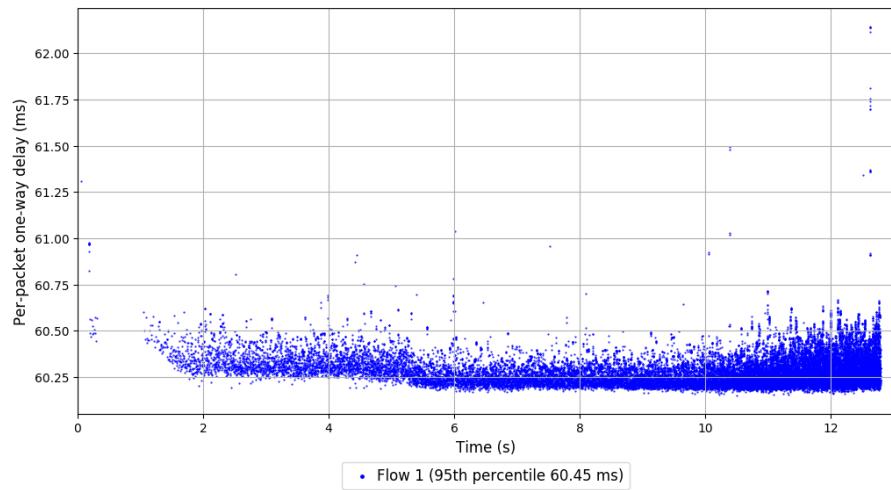
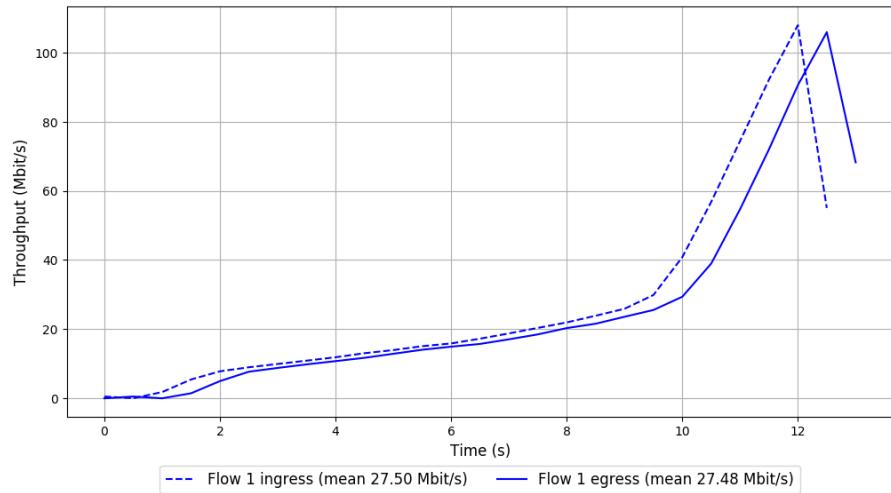
Start at: 2019-01-25 11:38:09

End at: 2019-01-25 11:38:39

Local clock offset: -0.04 ms

Remote clock offset: -0.129 ms

Run 1: Report of Indigo-MusesD — Data Link

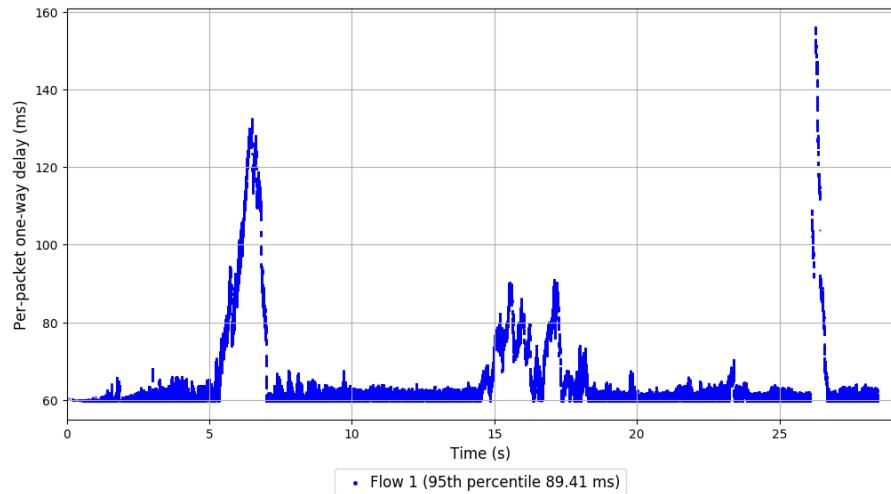
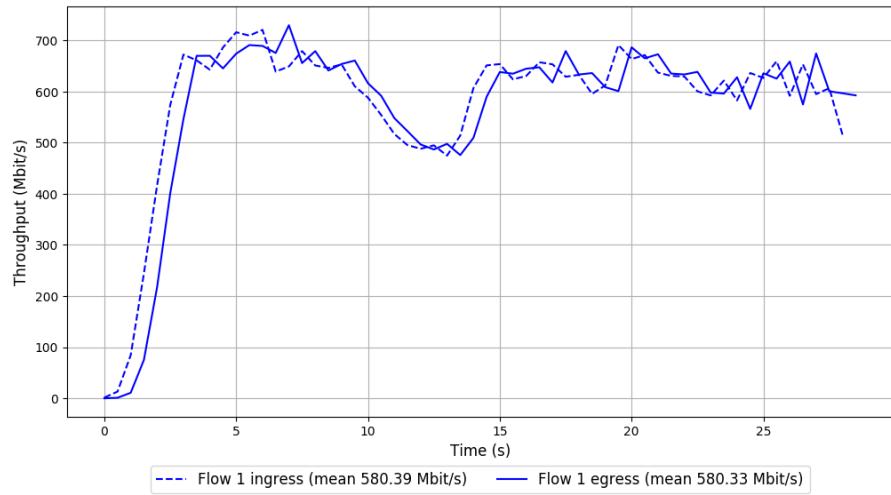


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-01-25 12:09:16
End at: 2019-01-25 12:09:46
Local clock offset: -0.189 ms
Remote clock offset: -0.652 ms

# Below is generated by plot.py at 2019-01-25 15:38:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 580.33 Mbit/s
95th percentile per-packet one-way delay: 89.414 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 580.33 Mbit/s
95th percentile per-packet one-way delay: 89.414 ms
Loss rate: 0.02%
```

Run 2: Report of Indigo-MusesD — Data Link

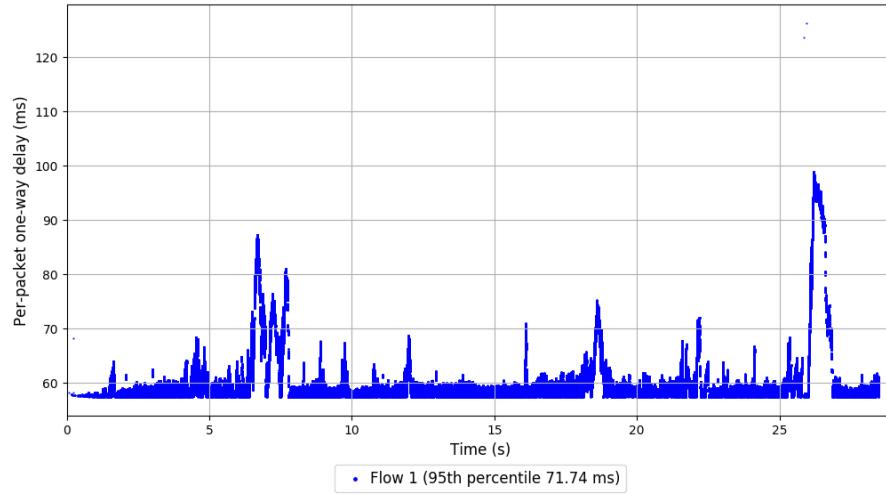
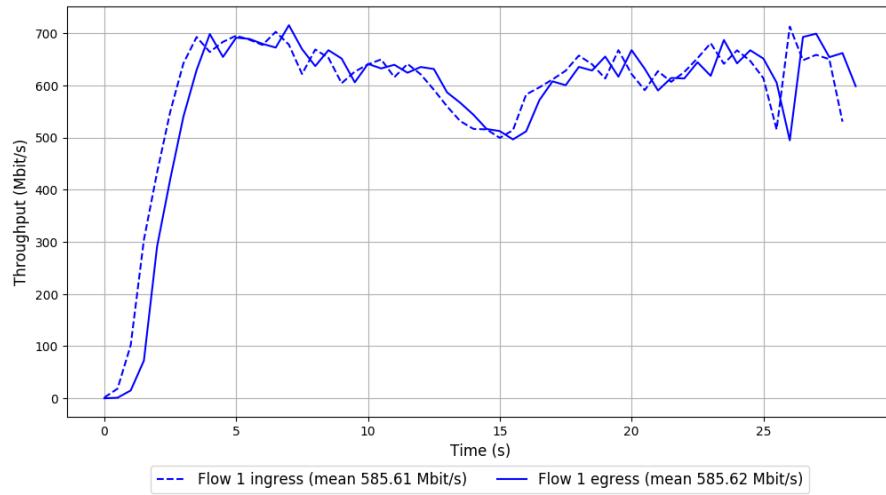


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-01-25 12:40:39
End at: 2019-01-25 12:41:09
Local clock offset: -0.175 ms
Remote clock offset: 0.34 ms

# Below is generated by plot.py at 2019-01-25 15:39:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 585.62 Mbit/s
95th percentile per-packet one-way delay: 71.736 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 585.62 Mbit/s
95th percentile per-packet one-way delay: 71.736 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-MusesD — Data Link

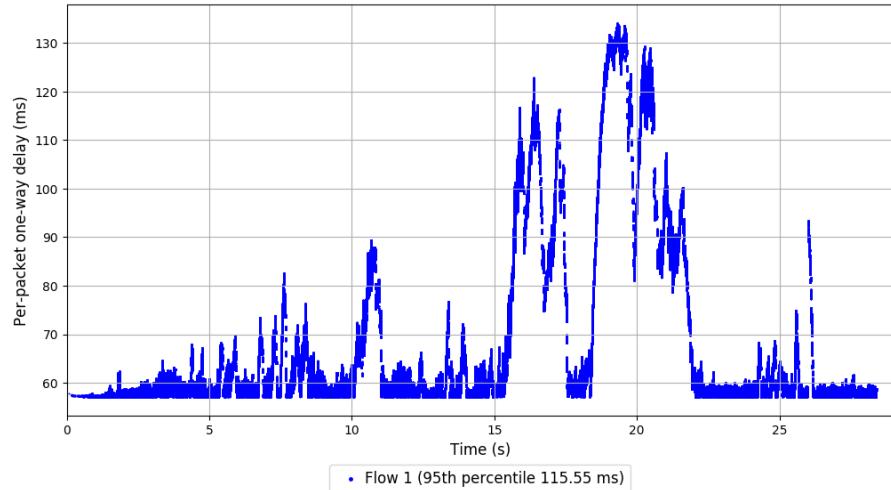
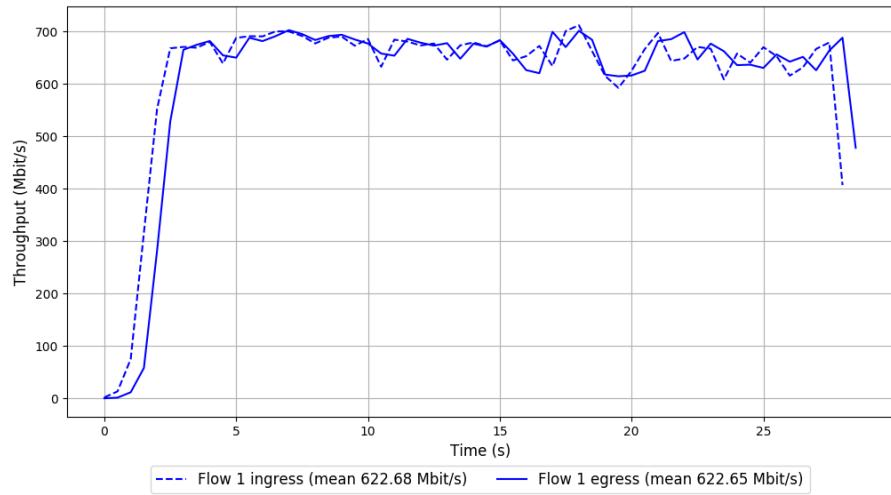


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-01-25 13:11:47
End at: 2019-01-25 13:12:18
Local clock offset: -0.295 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-01-25 15:40:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 622.65 Mbit/s
95th percentile per-packet one-way delay: 115.549 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 622.65 Mbit/s
95th percentile per-packet one-way delay: 115.549 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-MusesD — Data Link

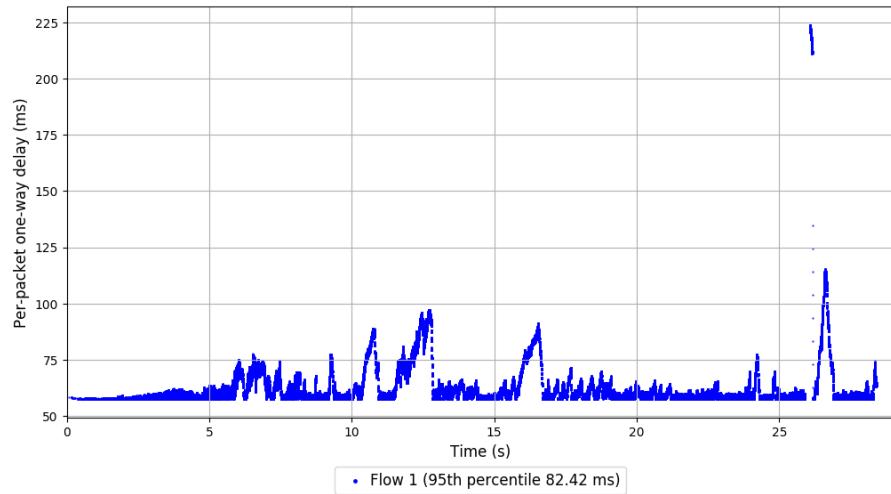
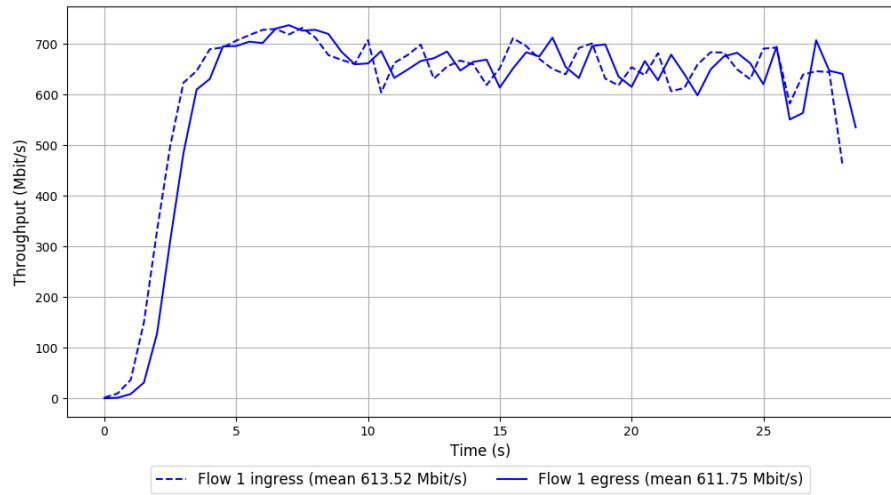


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-01-25 13:44:20
End at: 2019-01-25 13:44:50
Local clock offset: -0.376 ms
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2019-01-25 15:41:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 611.75 Mbit/s
95th percentile per-packet one-way delay: 82.423 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 611.75 Mbit/s
95th percentile per-packet one-way delay: 82.423 ms
Loss rate: 0.29%
```

Run 5: Report of Indigo-MusesD — Data Link

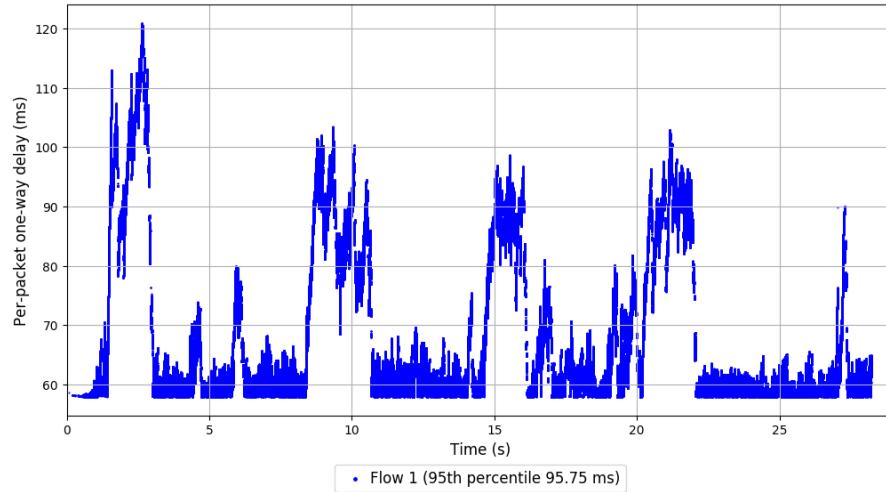
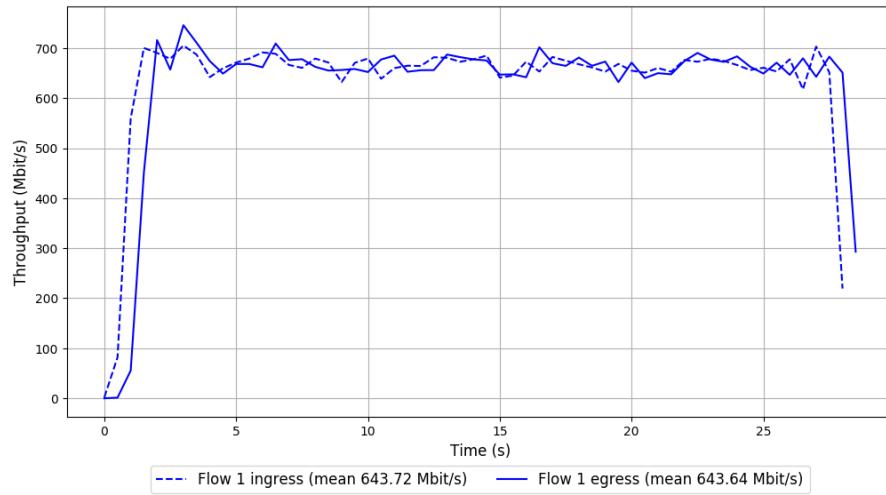


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-01-25 11:42:08
End at: 2019-01-25 11:42:38
Local clock offset: 0.15 ms
Remote clock offset: 0.7 ms

# Below is generated by plot.py at 2019-01-25 15:43:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 643.64 Mbit/s
95th percentile per-packet one-way delay: 95.746 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 643.64 Mbit/s
95th percentile per-packet one-way delay: 95.746 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo-MusesT — Data Link

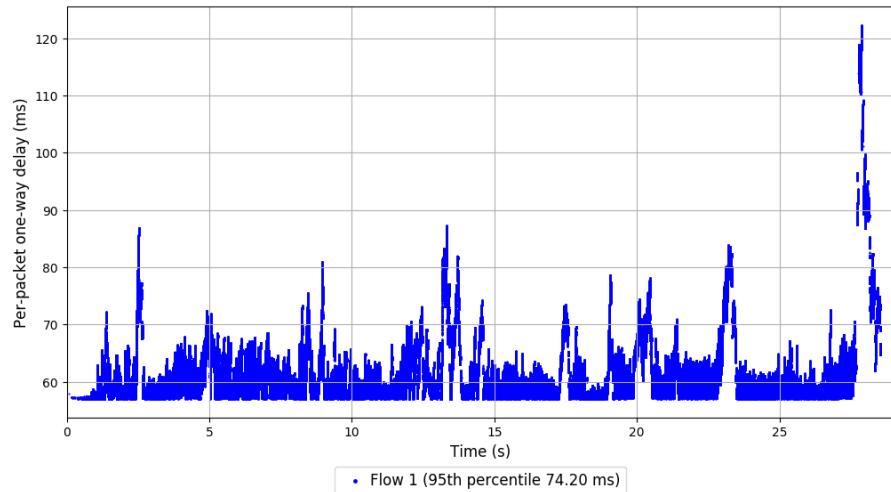
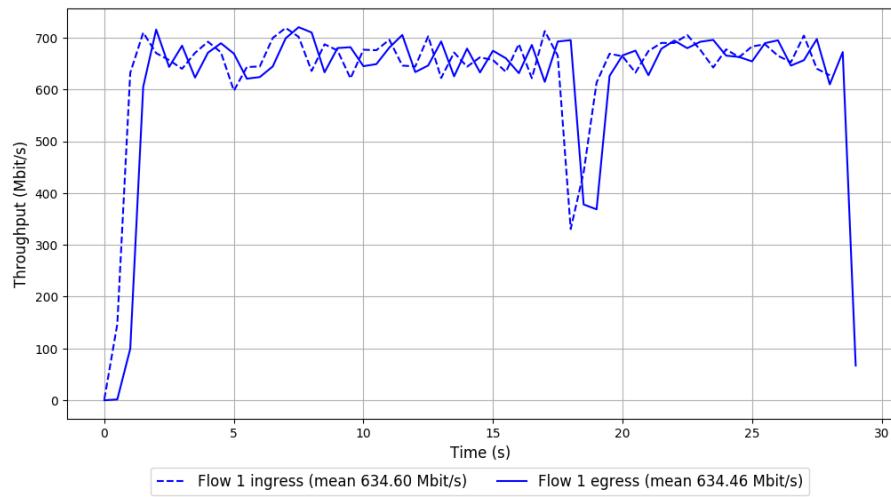


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-01-25 12:13:40
End at: 2019-01-25 12:14:11
Local clock offset: -0.426 ms
Remote clock offset: -0.198 ms

# Below is generated by plot.py at 2019-01-25 15:44:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 634.46 Mbit/s
95th percentile per-packet one-way delay: 74.200 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 634.46 Mbit/s
95th percentile per-packet one-way delay: 74.200 ms
Loss rate: 0.02%
```

Run 2: Report of Indigo-MusesT — Data Link

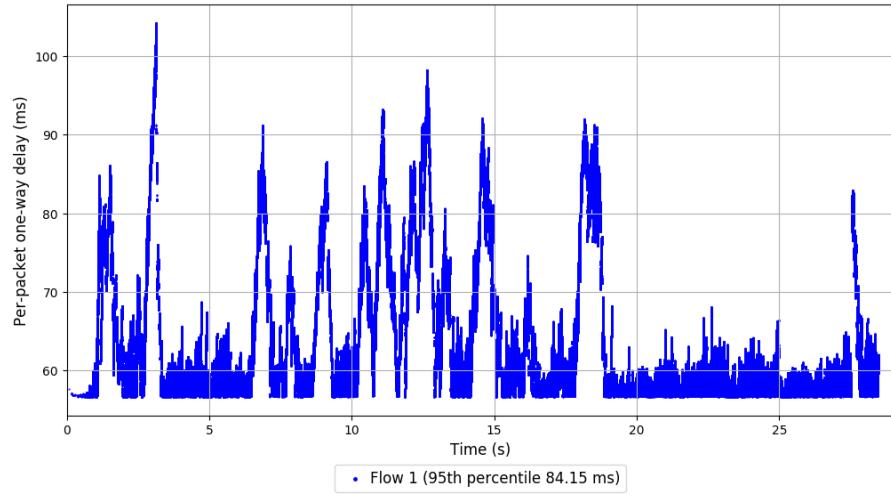
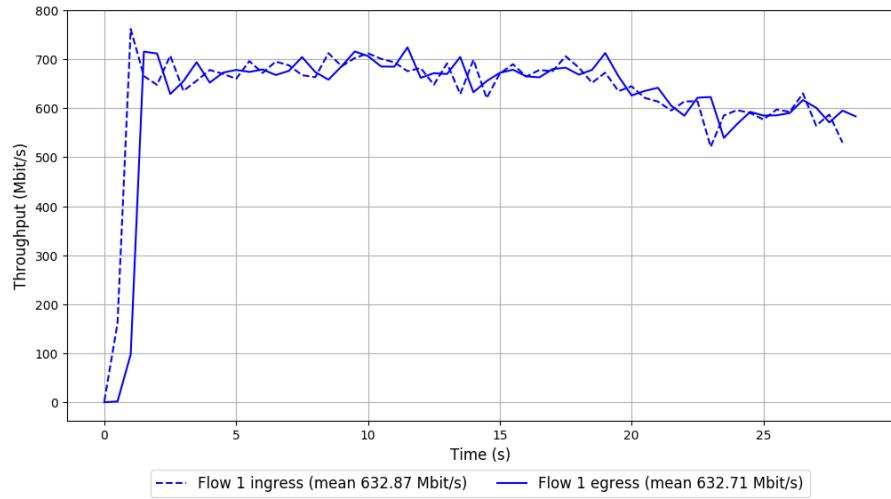


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-01-25 12:45:01
End at: 2019-01-25 12:45:31
Local clock offset: 0.28 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2019-01-25 15:49:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 632.71 Mbit/s
95th percentile per-packet one-way delay: 84.149 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 632.71 Mbit/s
95th percentile per-packet one-way delay: 84.149 ms
Loss rate: 0.03%
```

Run 3: Report of Indigo-MusesT — Data Link

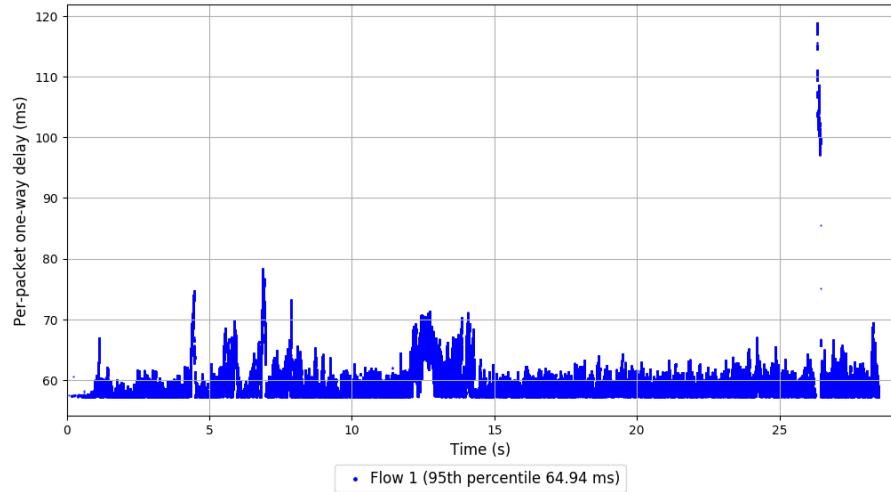
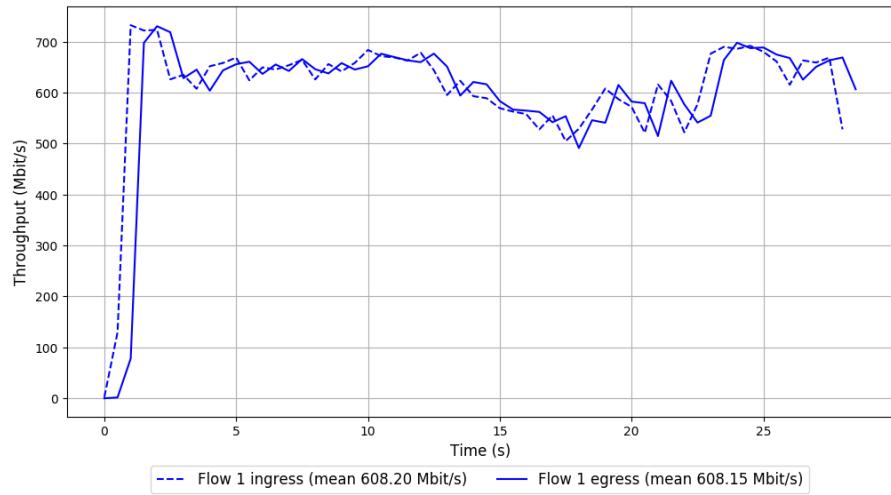


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-01-25 13:16:14
End at: 2019-01-25 13:16:44
Local clock offset: -0.301 ms
Remote clock offset: 0.081 ms

# Below is generated by plot.py at 2019-01-25 15:49:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 608.15 Mbit/s
95th percentile per-packet one-way delay: 64.937 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 608.15 Mbit/s
95th percentile per-packet one-way delay: 64.937 ms
Loss rate: 0.01%
```

Run 4: Report of Indigo-MusesT — Data Link

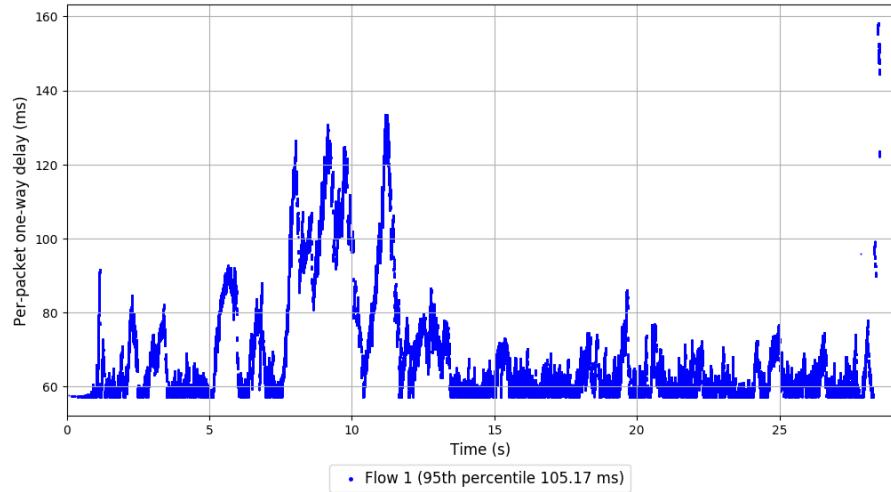
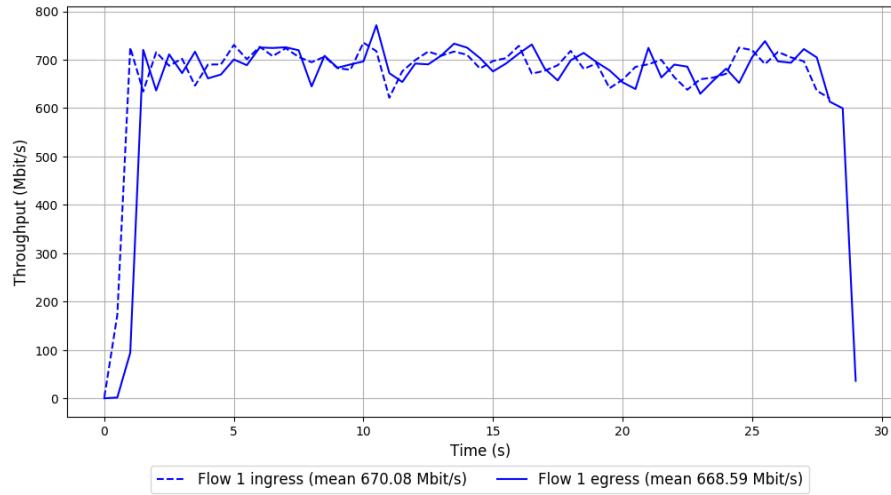


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-01-25 13:48:45
End at: 2019-01-25 13:49:15
Local clock offset: -0.413 ms
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2019-01-25 15:50:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 668.59 Mbit/s
95th percentile per-packet one-way delay: 105.165 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 668.59 Mbit/s
95th percentile per-packet one-way delay: 105.165 ms
Loss rate: 0.22%
```

Run 5: Report of Indigo-MusesT — Data Link

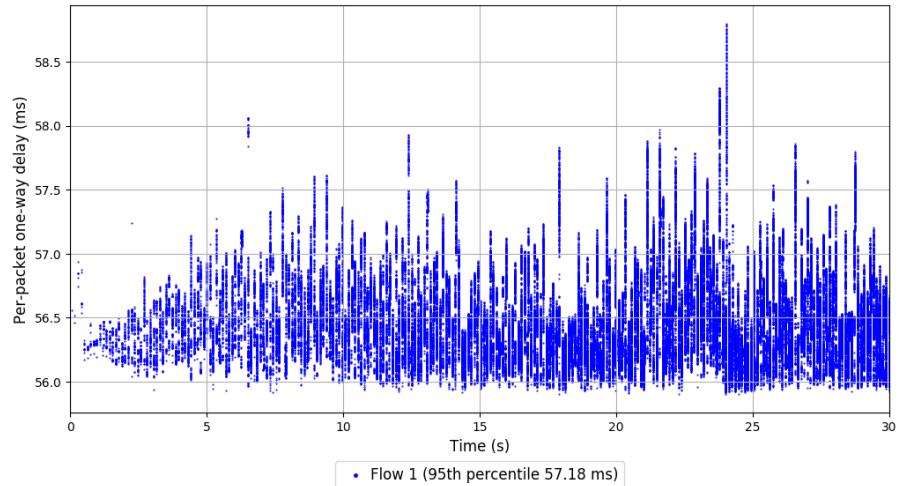
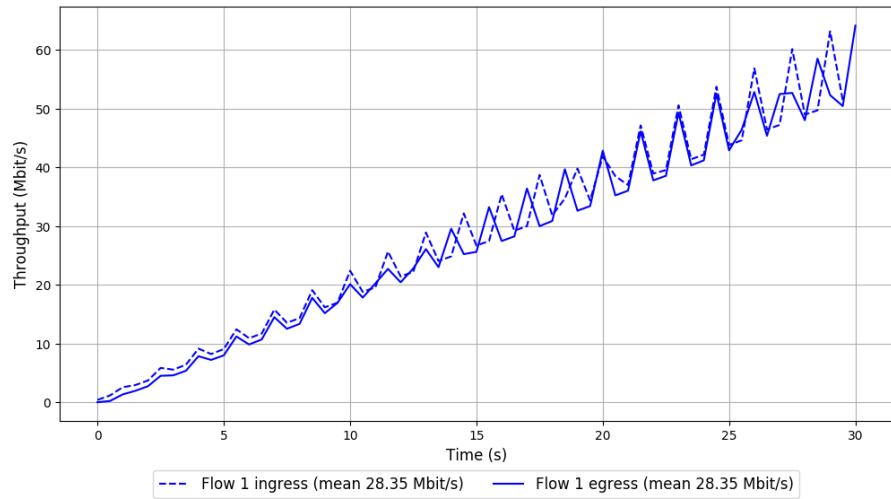


```
Run 1: Statistics of LEDBAT

Start at: 2019-01-25 11:40:57
End at: 2019-01-25 11:41:27
Local clock offset: 0.353 ms
Remote clock offset: -0.811 ms

# Below is generated by plot.py at 2019-01-25 15:50:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.35 Mbit/s
95th percentile per-packet one-way delay: 57.179 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 28.35 Mbit/s
95th percentile per-packet one-way delay: 57.179 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

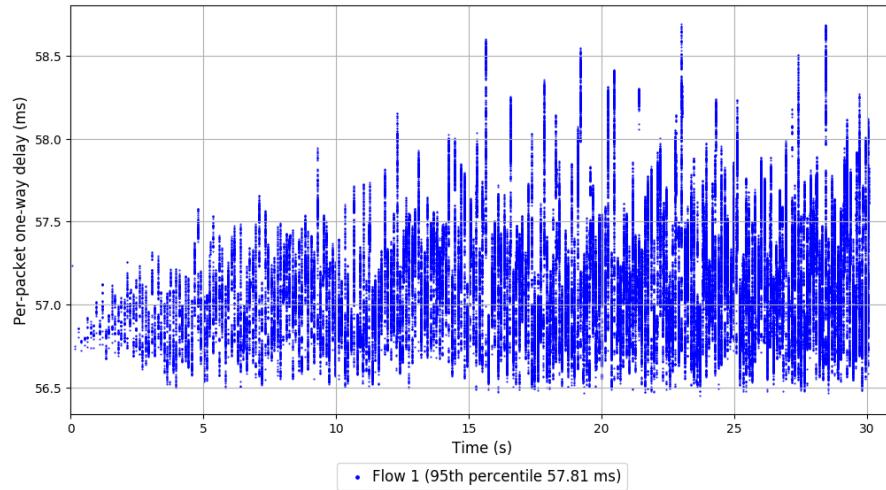
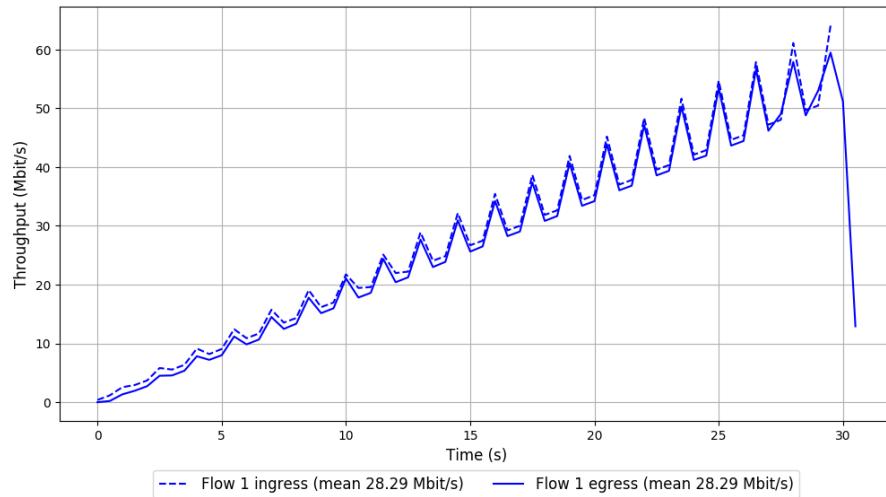


Run 2: Statistics of LEDBAT

```
Start at: 2019-01-25 12:12:29
End at: 2019-01-25 12:12:59
Local clock offset: -0.222 ms
Remote clock offset: -0.777 ms

# Below is generated by plot.py at 2019-01-25 15:50:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.29 Mbit/s
95th percentile per-packet one-way delay: 57.814 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 28.29 Mbit/s
95th percentile per-packet one-way delay: 57.814 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link

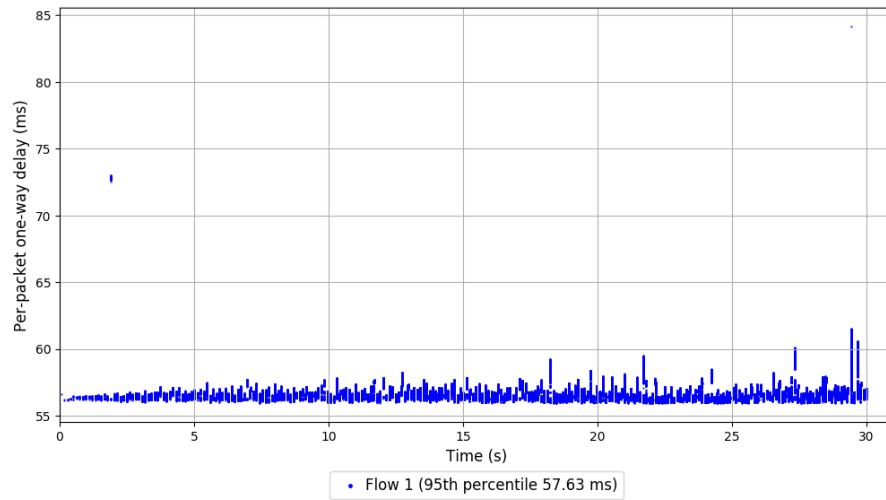
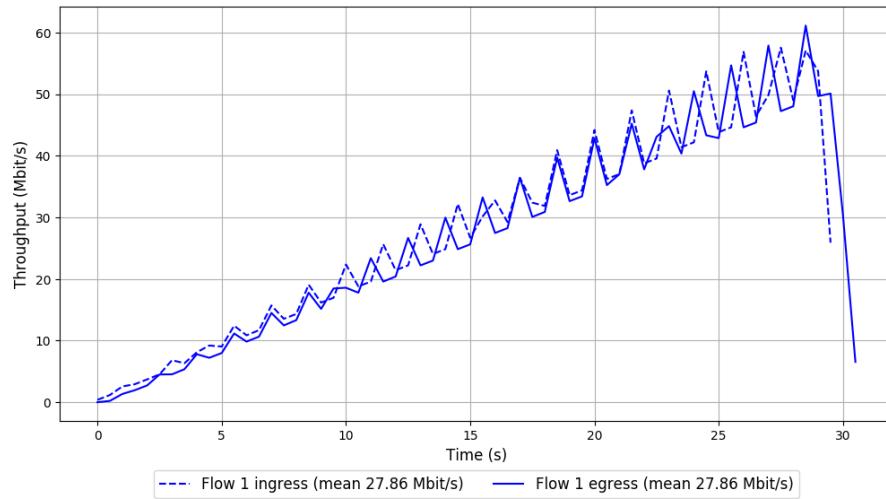


Run 3: Statistics of LEDBAT

```
Start at: 2019-01-25 12:43:50
End at: 2019-01-25 12:44:20
Local clock offset: 0.282 ms
Remote clock offset: -0.872 ms

# Below is generated by plot.py at 2019-01-25 15:50:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 27.86 Mbit/s
95th percentile per-packet one-way delay: 57.632 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 27.86 Mbit/s
95th percentile per-packet one-way delay: 57.632 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link

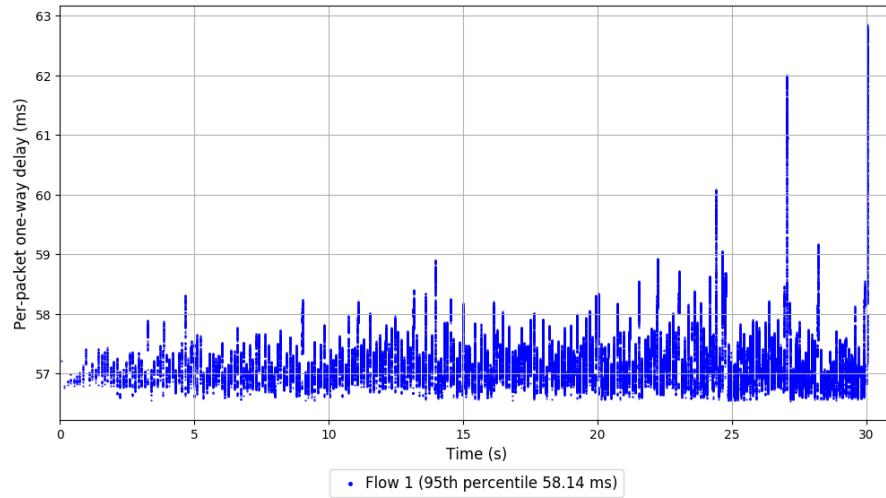
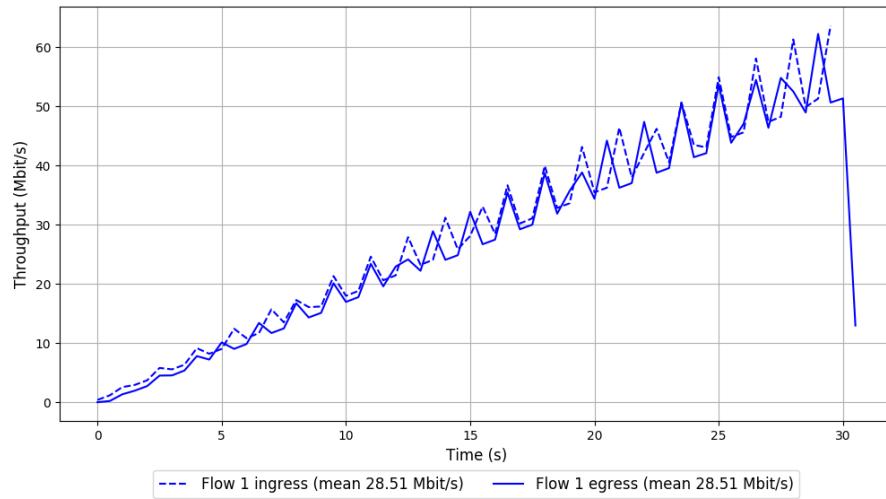


Run 4: Statistics of LEDBAT

```
Start at: 2019-01-25 13:15:03
End at: 2019-01-25 13:15:33
Local clock offset: -0.023 ms
Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2019-01-25 15:50:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.51 Mbit/s
95th percentile per-packet one-way delay: 58.144 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 28.51 Mbit/s
95th percentile per-packet one-way delay: 58.144 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link

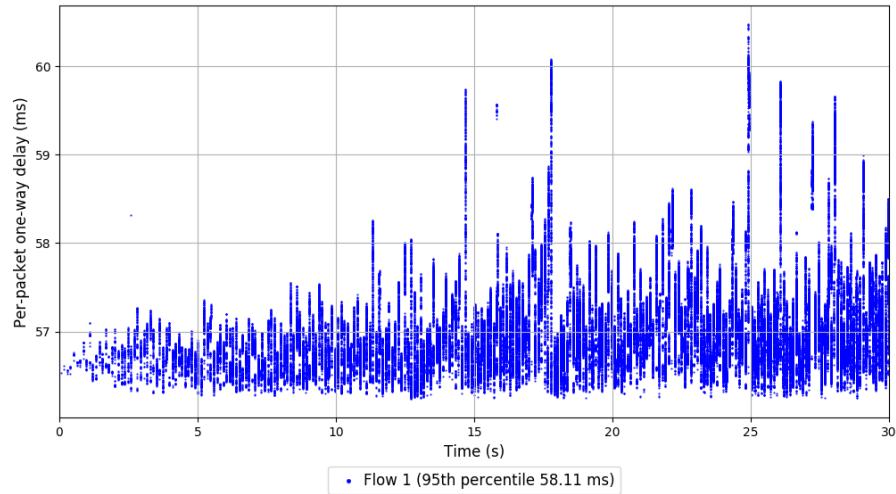
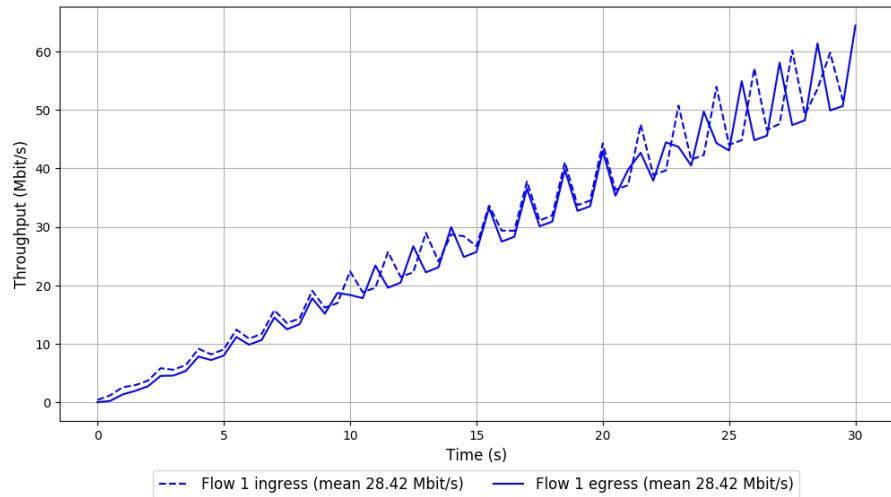


Run 5: Statistics of LEDBAT

```
Start at: 2019-01-25 13:47:34
End at: 2019-01-25 13:48:04
Local clock offset: -0.131 ms
Remote clock offset: -0.76 ms

# Below is generated by plot.py at 2019-01-25 15:50:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.42 Mbit/s
95th percentile per-packet one-way delay: 58.114 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 28.42 Mbit/s
95th percentile per-packet one-way delay: 58.114 ms
Loss rate: 0.00%
```

Run 5: Report of LEDBAT — Data Link

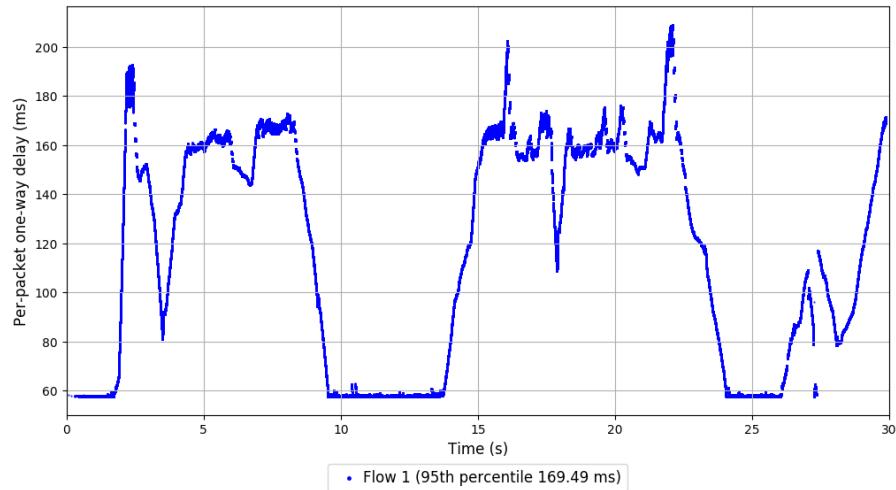
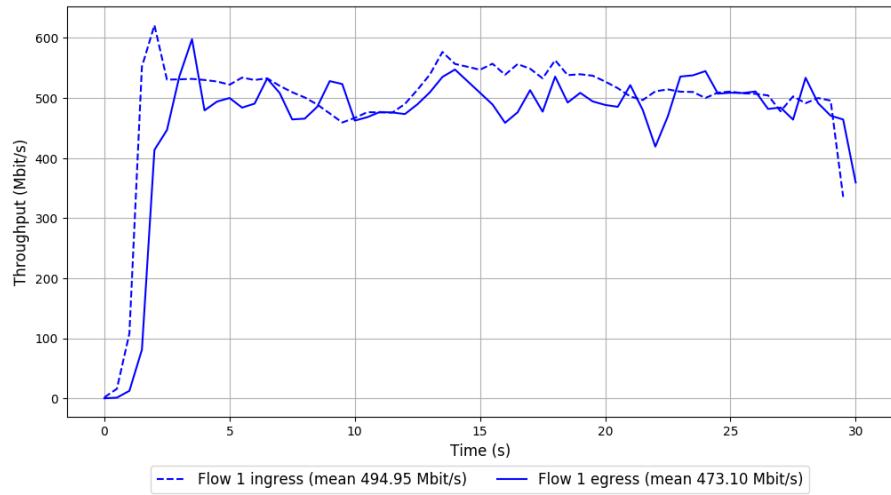


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-01-25 12:00:41
End at: 2019-01-25 12:01:11
Local clock offset: 0.138 ms
Remote clock offset: 0.652 ms

# Below is generated by plot.py at 2019-01-25 16:00:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 473.10 Mbit/s
95th percentile per-packet one-way delay: 169.491 ms
Loss rate: 4.41%
-- Flow 1:
Average throughput: 473.10 Mbit/s
95th percentile per-packet one-way delay: 169.491 ms
Loss rate: 4.41%
```

Run 1: Report of PCC-Allegro — Data Link

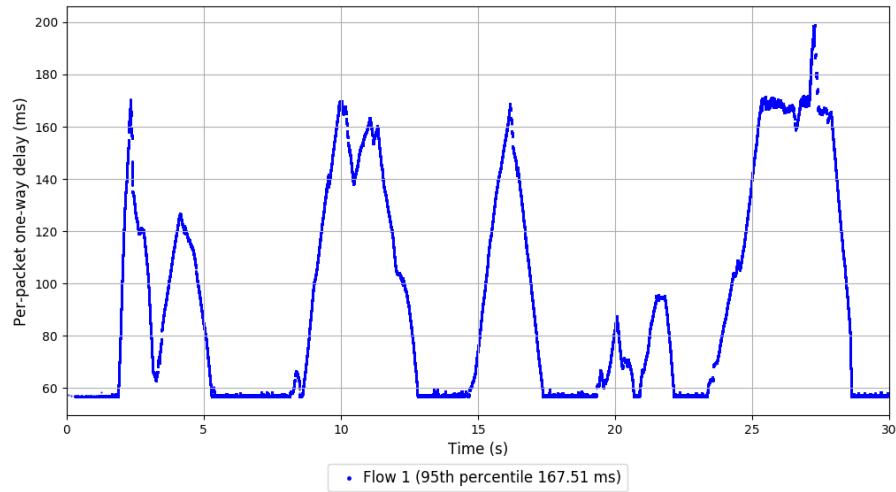
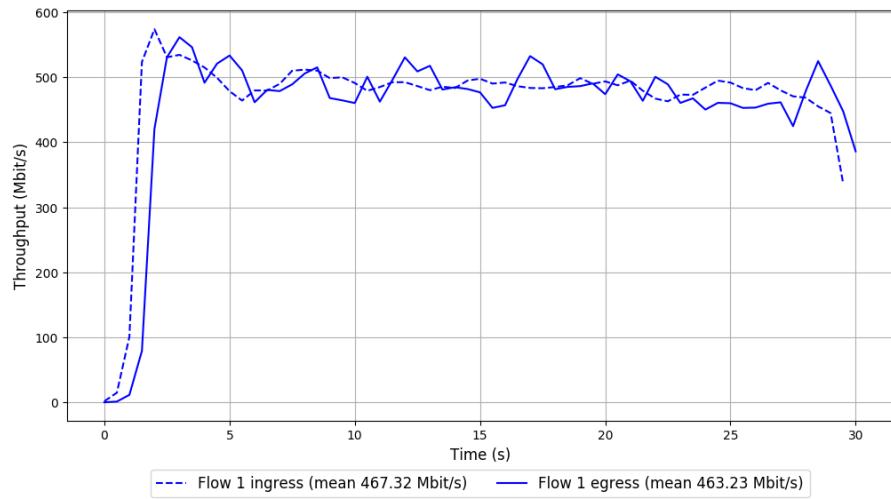


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-01-25 12:32:13
End at: 2019-01-25 12:32:43
Local clock offset: -0.161 ms
Remote clock offset: -0.868 ms

# Below is generated by plot.py at 2019-01-25 16:00:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 463.23 Mbit/s
95th percentile per-packet one-way delay: 167.515 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 463.23 Mbit/s
95th percentile per-packet one-way delay: 167.515 ms
Loss rate: 0.87%
```

Run 2: Report of PCC-Allegro — Data Link

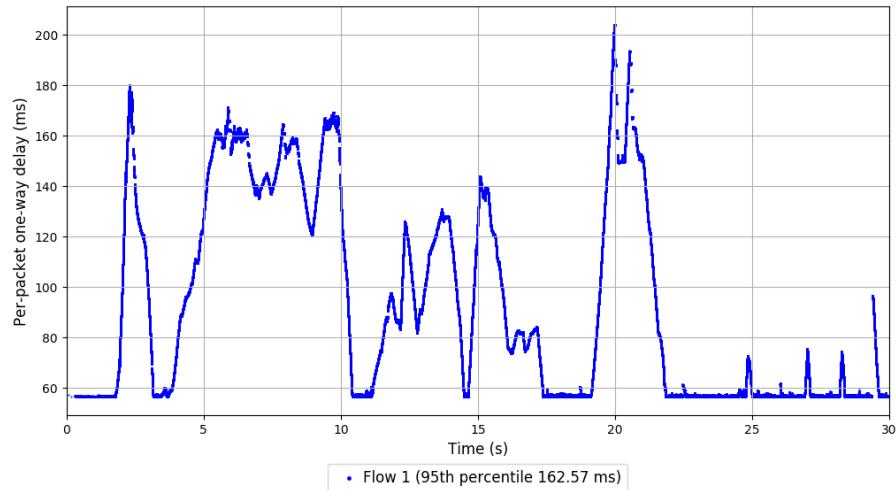
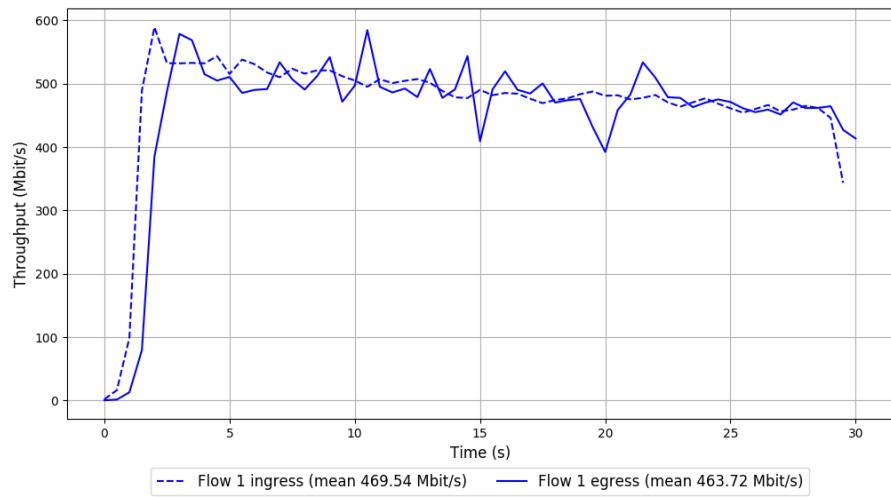


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-01-25 13:03:22
End at: 2019-01-25 13:03:52
Local clock offset: -0.164 ms
Remote clock offset: -0.743 ms

# Below is generated by plot.py at 2019-01-25 16:01:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 463.72 Mbit/s
95th percentile per-packet one-way delay: 162.569 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 463.72 Mbit/s
95th percentile per-packet one-way delay: 162.569 ms
Loss rate: 1.24%
```

Run 3: Report of PCC-Allegro — Data Link

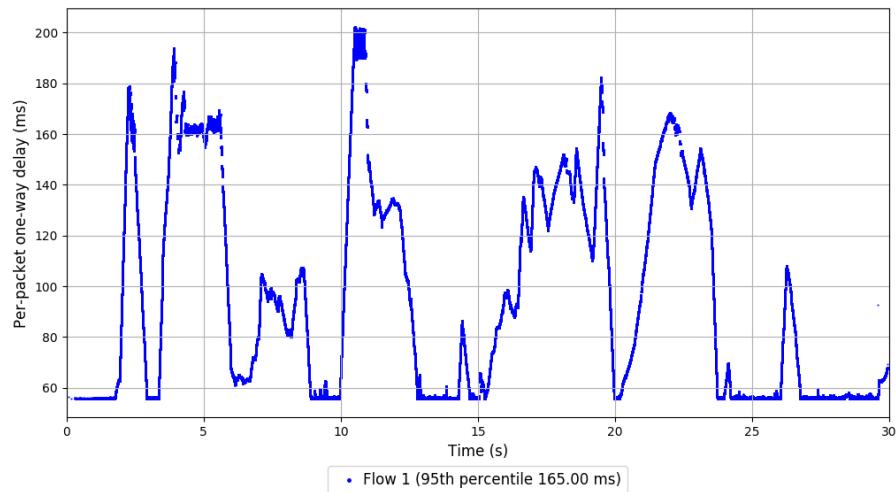
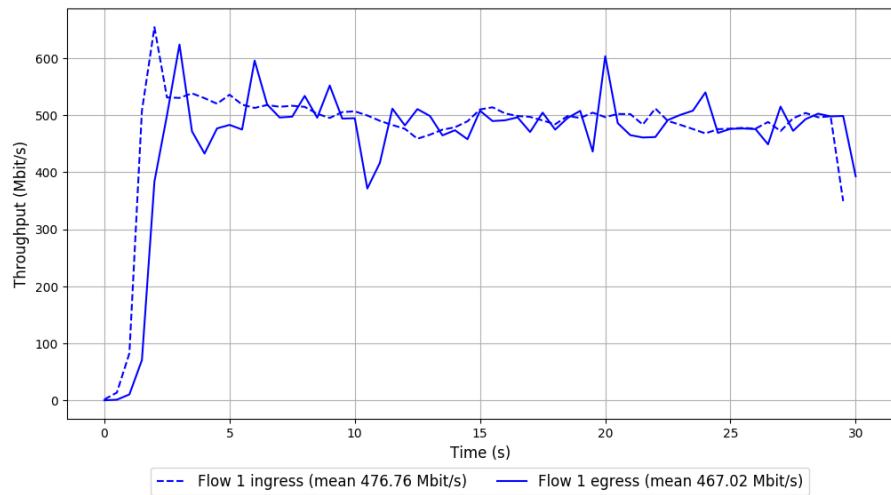


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-01-25 13:35:52
End at: 2019-01-25 13:36:22
Local clock offset: 0.281 ms
Remote clock offset: -0.797 ms

# Below is generated by plot.py at 2019-01-25 16:02:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 467.02 Mbit/s
95th percentile per-packet one-way delay: 165.005 ms
Loss rate: 2.04%
-- Flow 1:
Average throughput: 467.02 Mbit/s
95th percentile per-packet one-way delay: 165.005 ms
Loss rate: 2.04%
```

Run 4: Report of PCC-Allegro — Data Link

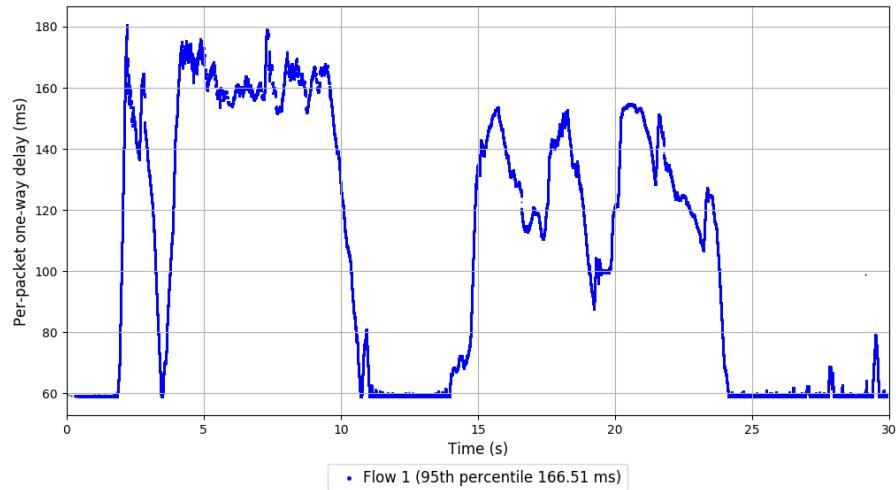
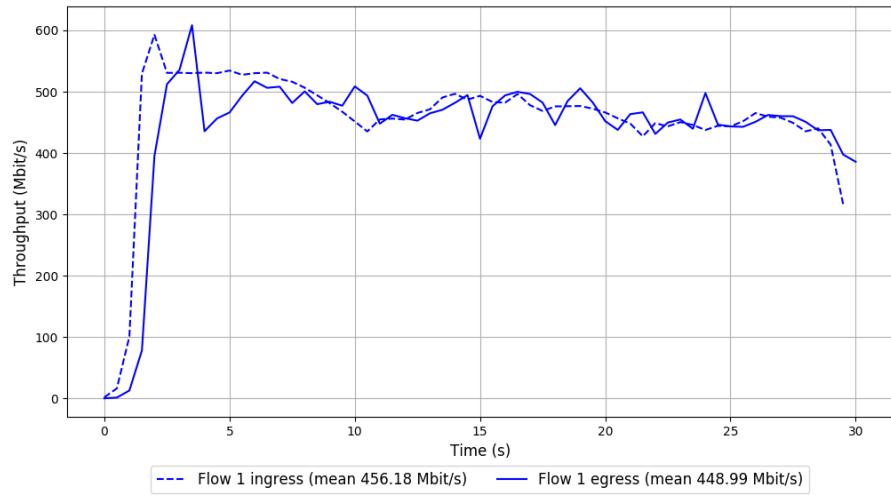


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-01-25 14:07:10
End at: 2019-01-25 14:07:40
Local clock offset: -0.166 ms
Remote clock offset: 1.57 ms

# Below is generated by plot.py at 2019-01-25 16:02:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 448.99 Mbit/s
95th percentile per-packet one-way delay: 166.515 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 448.99 Mbit/s
95th percentile per-packet one-way delay: 166.515 ms
Loss rate: 1.58%
```

Run 5: Report of PCC-Allegro — Data Link

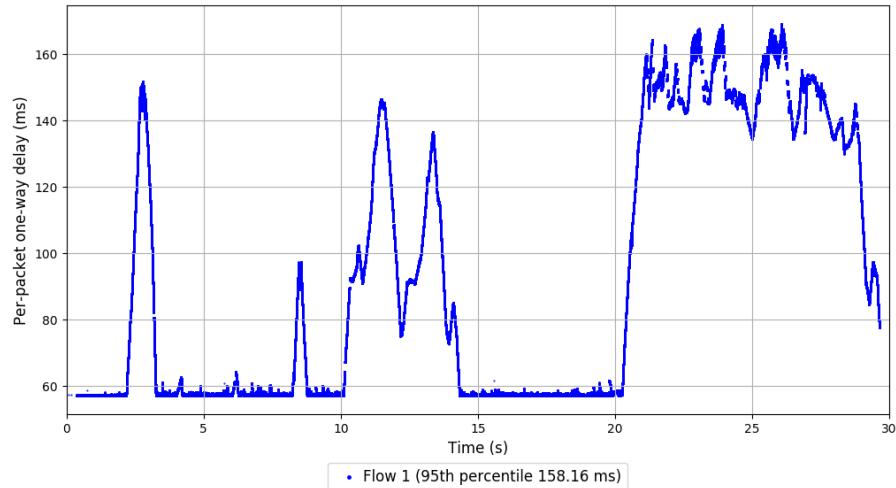
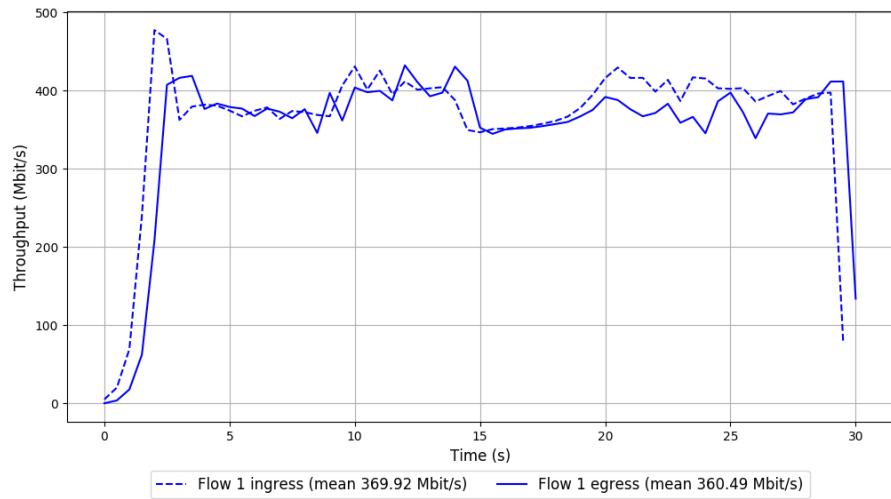


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-01-25 11:50:08
End at: 2019-01-25 11:50:38
Local clock offset: 0.121 ms
Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2019-01-25 16:03:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 360.49 Mbit/s
95th percentile per-packet one-way delay: 158.157 ms
Loss rate: 2.55%
-- Flow 1:
Average throughput: 360.49 Mbit/s
95th percentile per-packet one-way delay: 158.157 ms
Loss rate: 2.55%
```

Run 1: Report of PCC-Expr — Data Link

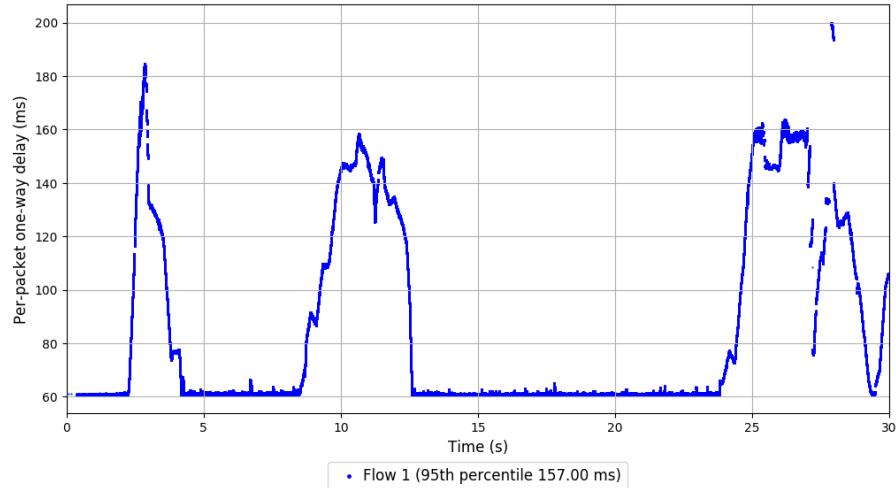
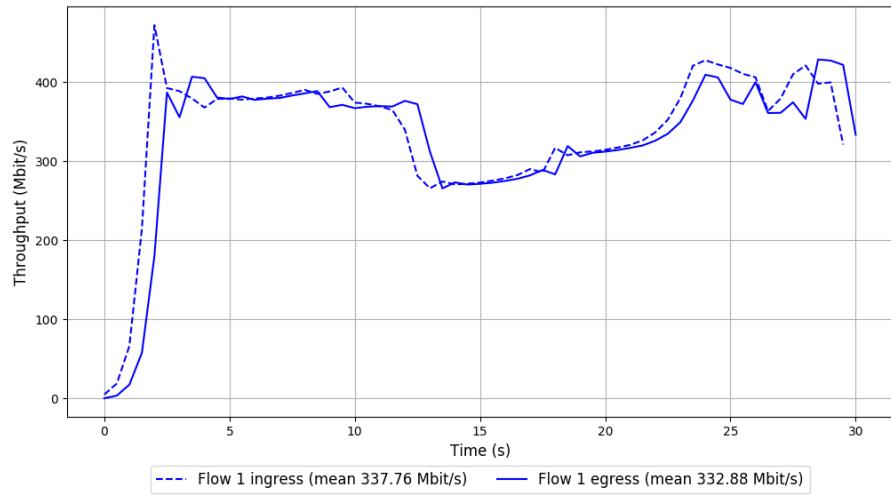


Run 2: Statistics of PCC-Expr

```
Start at: 2019-01-25 12:21:44
End at: 2019-01-25 12:22:14
Local clock offset: 0.105 ms
Remote clock offset: 0.601 ms

# Below is generated by plot.py at 2019-01-25 16:03:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 332.88 Mbit/s
95th percentile per-packet one-way delay: 156.996 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 332.88 Mbit/s
95th percentile per-packet one-way delay: 156.996 ms
Loss rate: 1.45%
```

Run 2: Report of PCC-Expr — Data Link

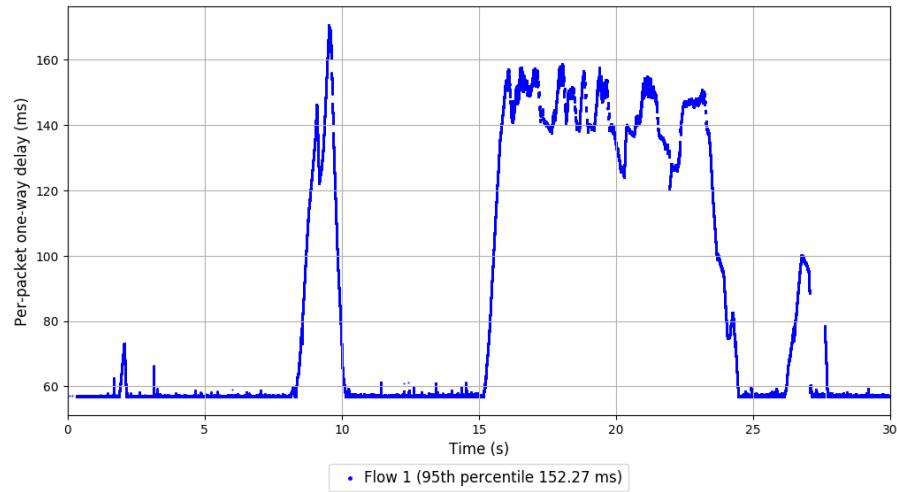
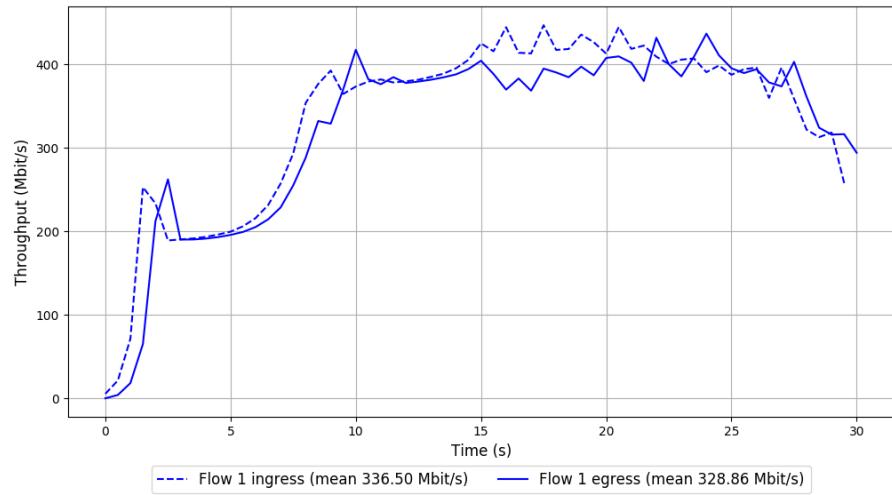


Run 3: Statistics of PCC-Expr

```
Start at: 2019-01-25 12:52:57
End at: 2019-01-25 12:53:27
Local clock offset: -0.091 ms
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2019-01-25 16:03:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 328.86 Mbit/s
95th percentile per-packet one-way delay: 152.273 ms
Loss rate: 2.27%
-- Flow 1:
Average throughput: 328.86 Mbit/s
95th percentile per-packet one-way delay: 152.273 ms
Loss rate: 2.27%
```

Run 3: Report of PCC-Expr — Data Link

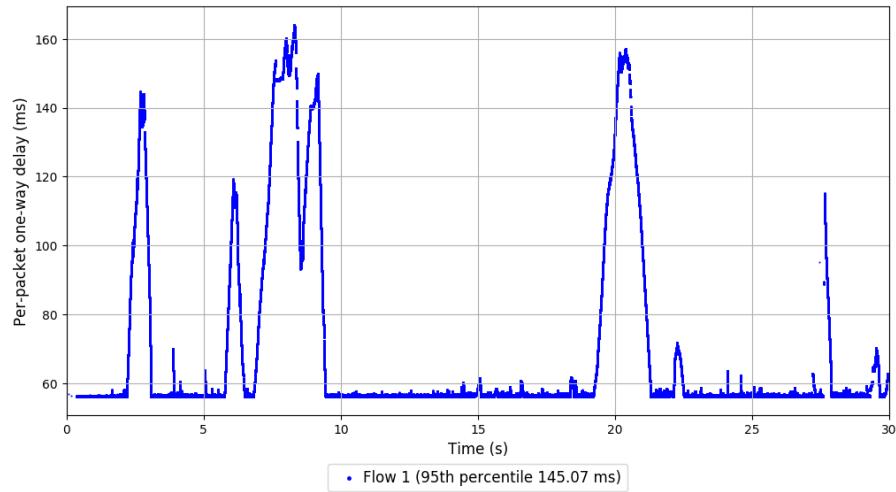
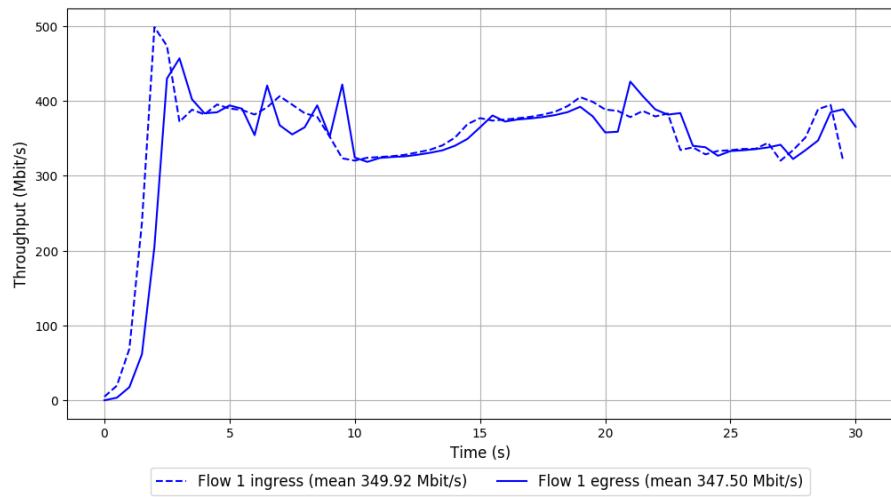


Run 4: Statistics of PCC-Expr

```
Start at: 2019-01-25 13:24:51
End at: 2019-01-25 13:25:21
Local clock offset: 0.122 ms
Remote clock offset: -0.781 ms

# Below is generated by plot.py at 2019-01-25 16:13:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 347.50 Mbit/s
95th percentile per-packet one-way delay: 145.074 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 347.50 Mbit/s
95th percentile per-packet one-way delay: 145.074 ms
Loss rate: 0.69%
```

Run 4: Report of PCC-Expr — Data Link

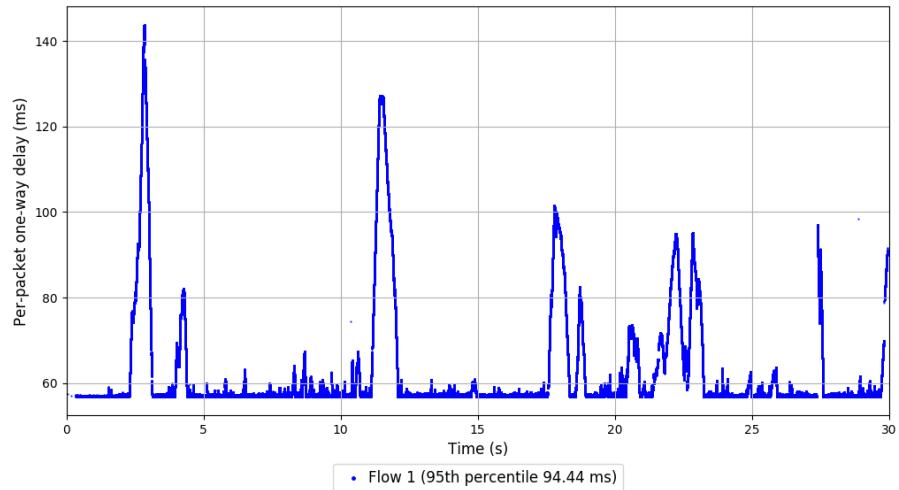
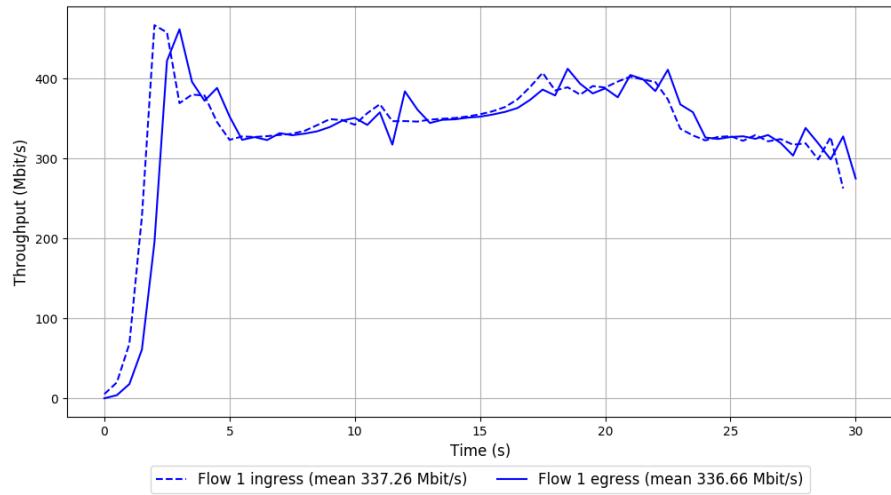


Run 5: Statistics of PCC-Expr

```
Start at: 2019-01-25 13:56:48
End at: 2019-01-25 13:57:18
Local clock offset: -0.174 ms
Remote clock offset: 0.028 ms

# Below is generated by plot.py at 2019-01-25 16:13:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 336.66 Mbit/s
95th percentile per-packet one-way delay: 94.439 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 336.66 Mbit/s
95th percentile per-packet one-way delay: 94.439 ms
Loss rate: 0.18%
```

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

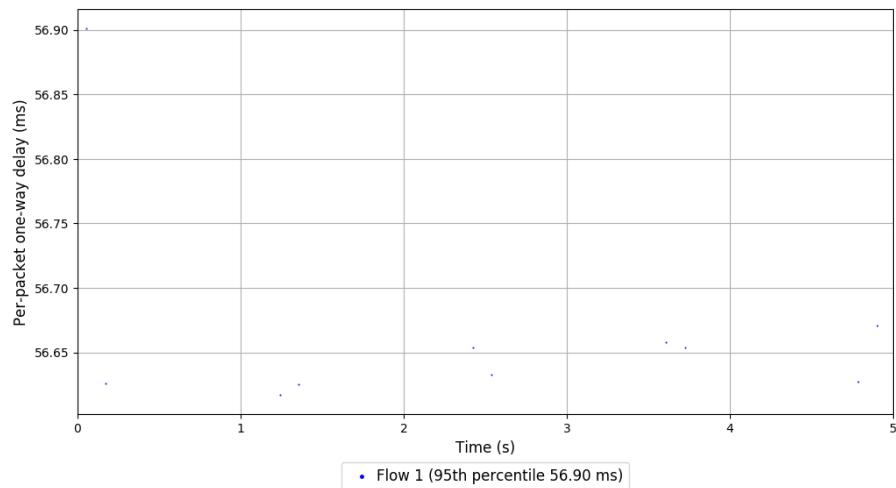
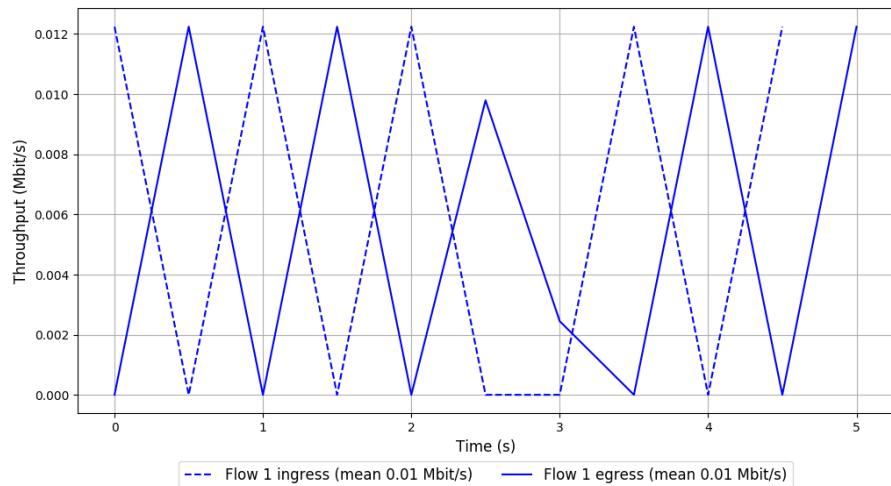
Start at: 2019-01-25 11:34:26

End at: 2019-01-25 11:34:56

Local clock offset: -0.17 ms

Remote clock offset: -0.811 ms

Run 1: Report of QUIC Cubic — Data Link

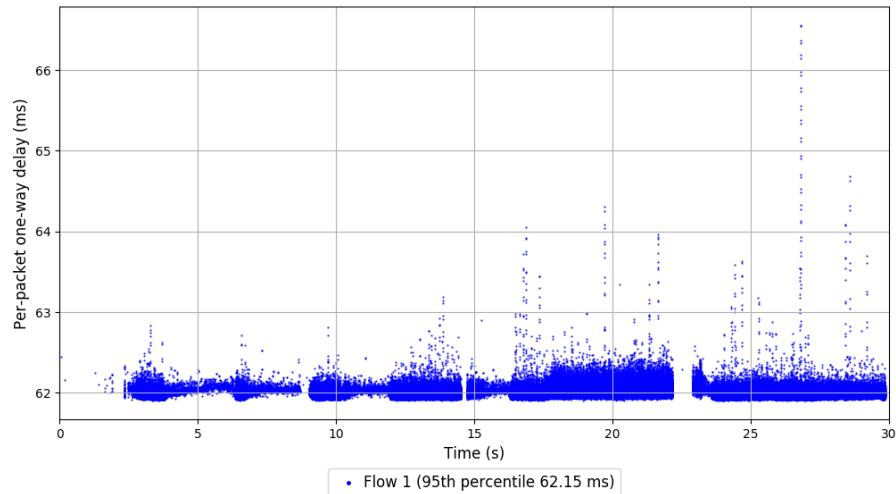
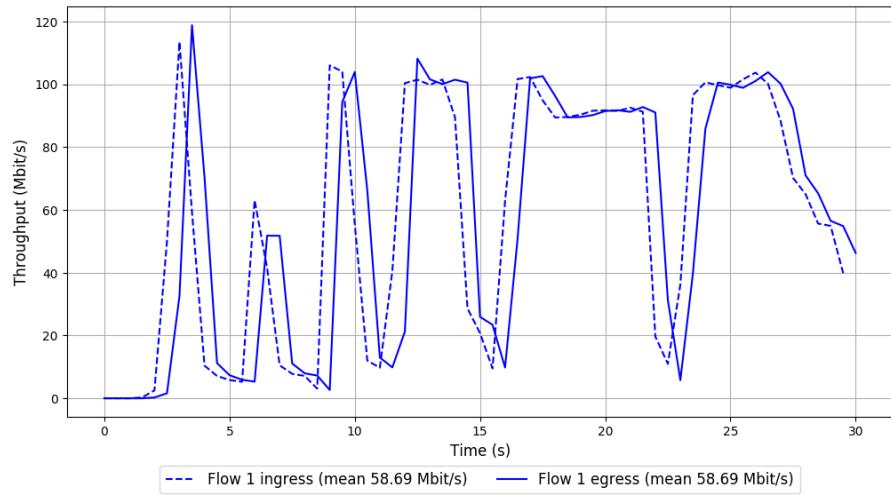


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-01-25 12:05:29
End at: 2019-01-25 12:05:59
Local clock offset: -0.207 ms
Remote clock offset: 1.359 ms

# Below is generated by plot.py at 2019-01-25 16:13:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.69 Mbit/s
95th percentile per-packet one-way delay: 62.152 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 58.69 Mbit/s
95th percentile per-packet one-way delay: 62.152 ms
Loss rate: 0.02%
```

Run 2: Report of QUIC Cubic — Data Link

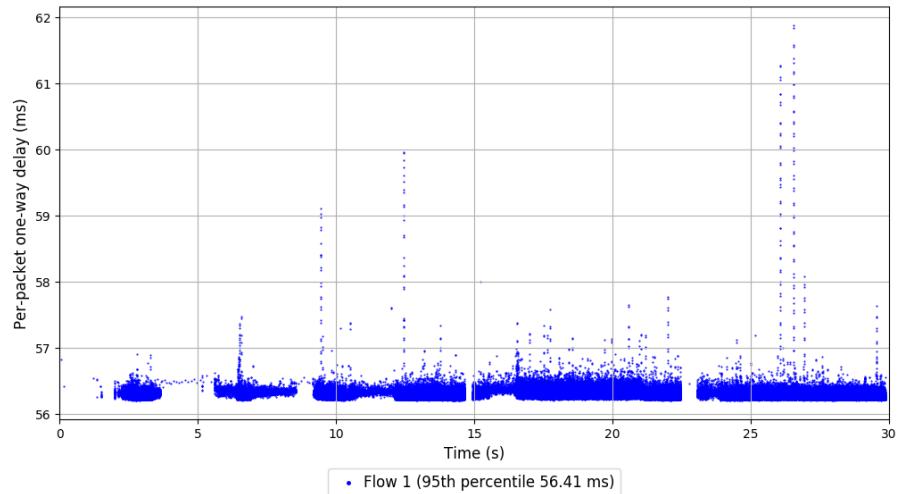
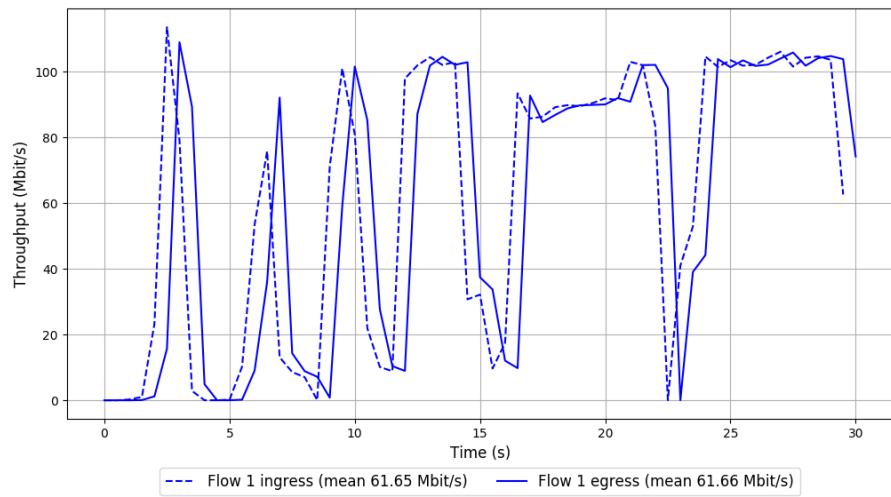


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-01-25 12:36:55
End at: 2019-01-25 12:37:25
Local clock offset: -0.024 ms
Remote clock offset: -0.693 ms

# Below is generated by plot.py at 2019-01-25 16:13:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.66 Mbit/s
95th percentile per-packet one-way delay: 56.415 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.66 Mbit/s
95th percentile per-packet one-way delay: 56.415 ms
Loss rate: 0.00%
```

Run 3: Report of QUIC Cubic — Data Link

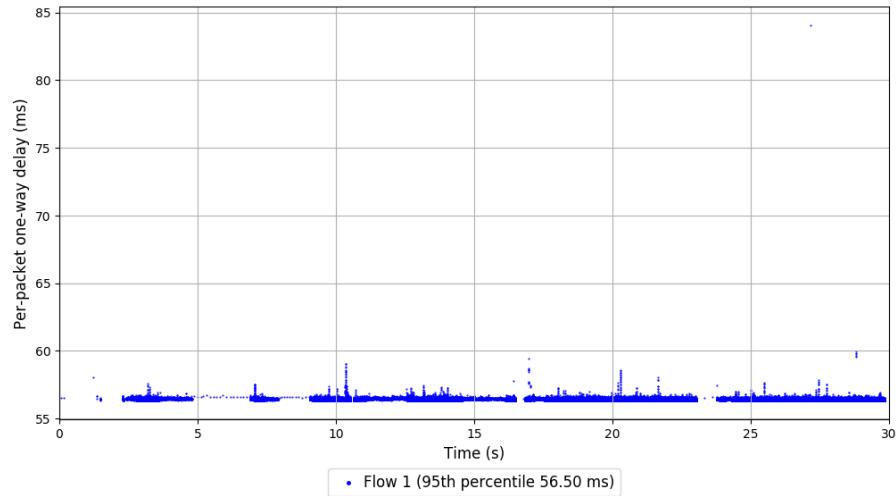
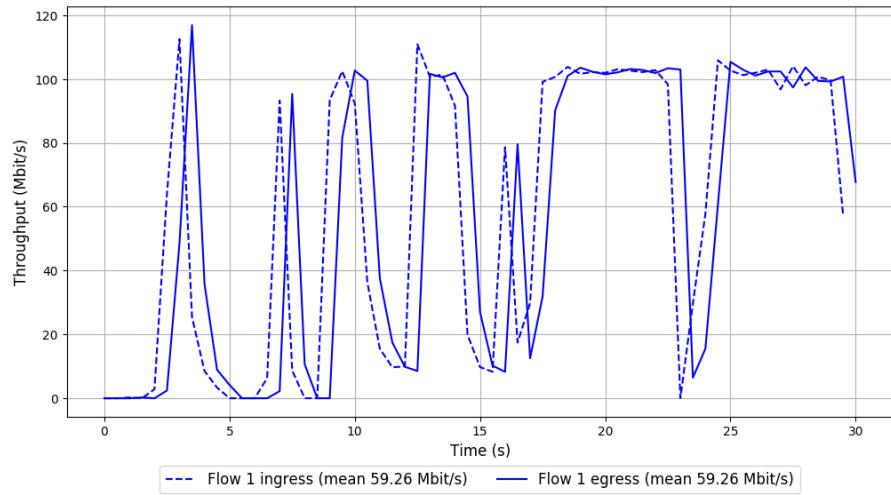


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-01-25 13:08:06
End at: 2019-01-25 13:08:36
Local clock offset: -0.013 ms
Remote clock offset: -0.601 ms

# Below is generated by plot.py at 2019-01-25 16:13:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.26 Mbit/s
95th percentile per-packet one-way delay: 56.496 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 59.26 Mbit/s
95th percentile per-packet one-way delay: 56.496 ms
Loss rate: 0.00%
```

Run 4: Report of QUIC Cubic — Data Link

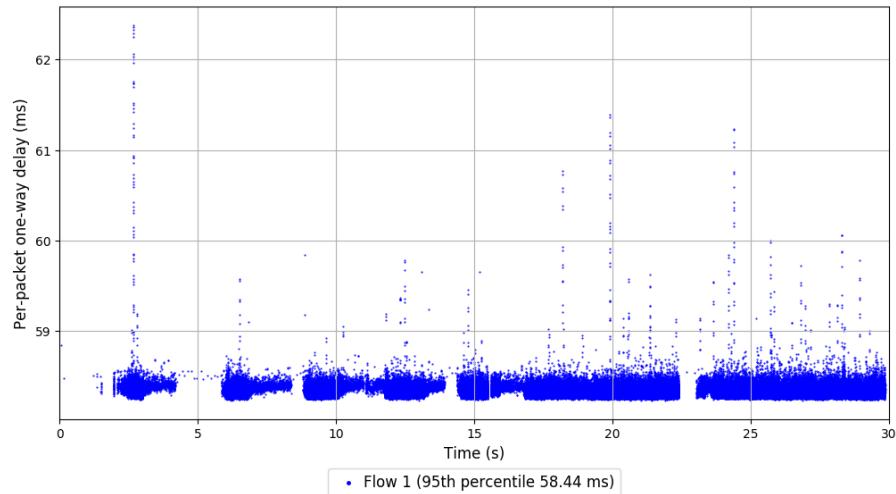
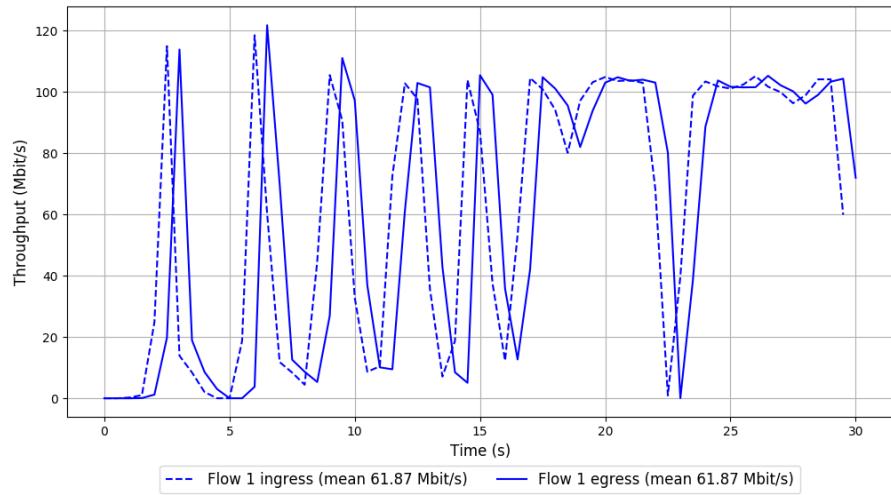


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-01-25 13:40:36
End at: 2019-01-25 13:41:06
Local clock offset: 0.16 ms
Remote clock offset: 1.466 ms

# Below is generated by plot.py at 2019-01-25 16:13:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.87 Mbit/s
95th percentile per-packet one-way delay: 58.443 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.87 Mbit/s
95th percentile per-packet one-way delay: 58.443 ms
Loss rate: 0.00%
```

Run 5: Report of QUIC Cubic — Data Link

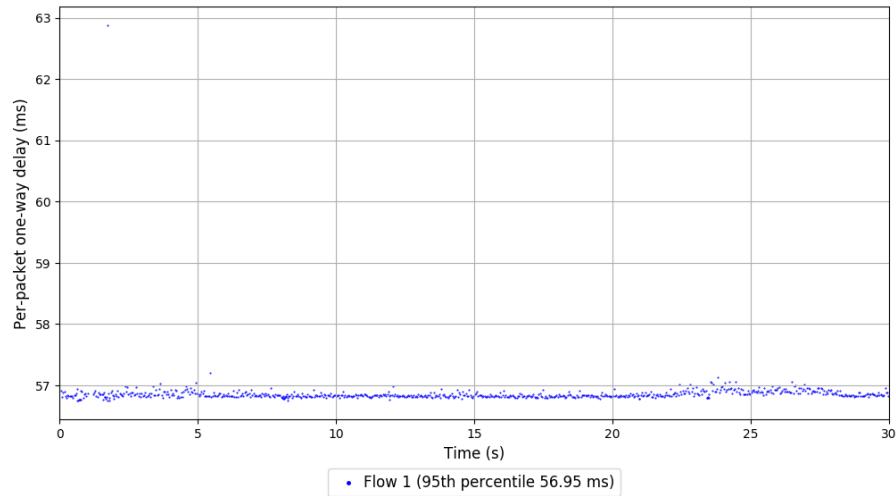
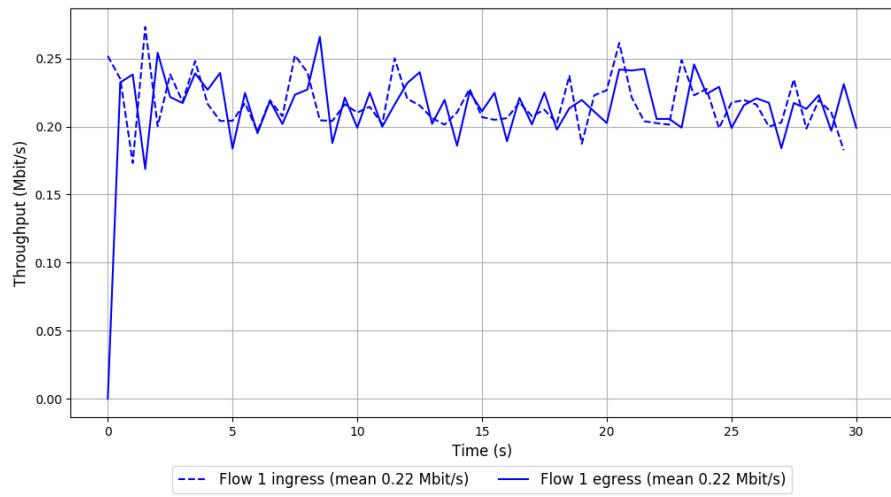


Run 1: Statistics of SCReAM

```
Start at: 2019-01-25 11:35:35
End at: 2019-01-25 11:36:05
Local clock offset: 0.212 ms
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2019-01-25 16:13:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.950 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.950 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

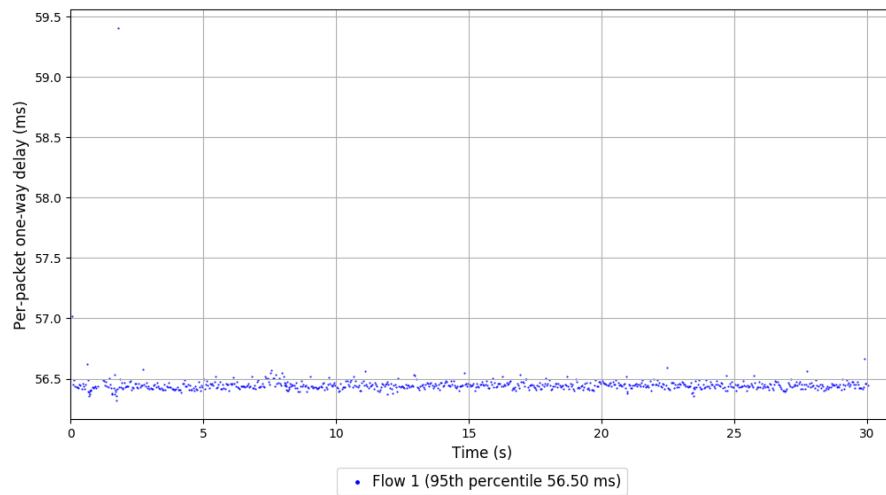
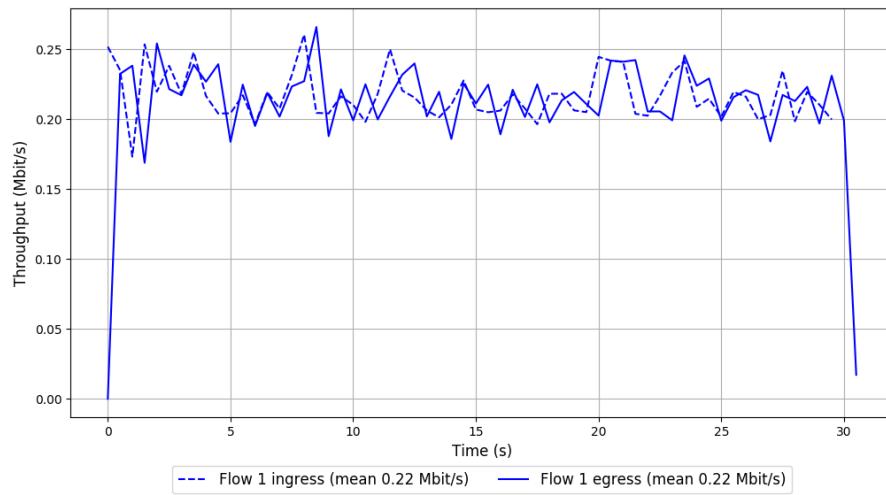


Run 2: Statistics of SCReAM

```
Start at: 2019-01-25 12:06:41
End at: 2019-01-25 12:07:11
Local clock offset: -0.042 ms
Remote clock offset: -0.707 ms

# Below is generated by plot.py at 2019-01-25 16:13:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.501 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.501 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

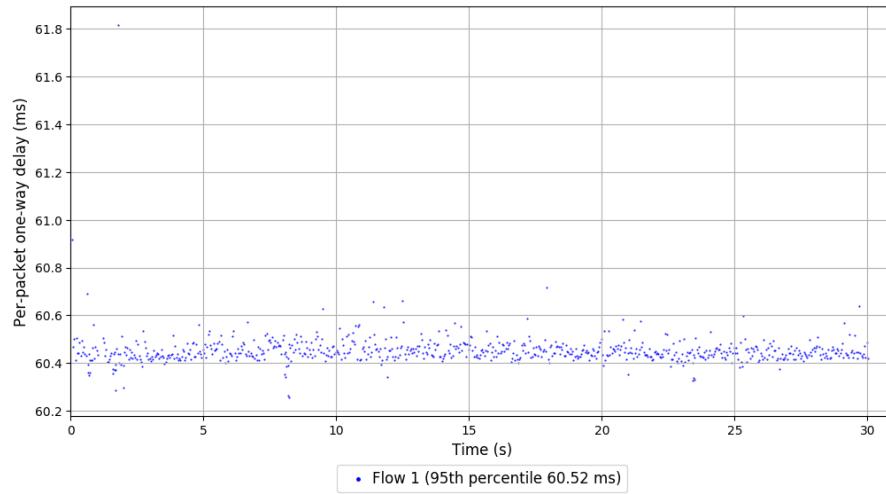
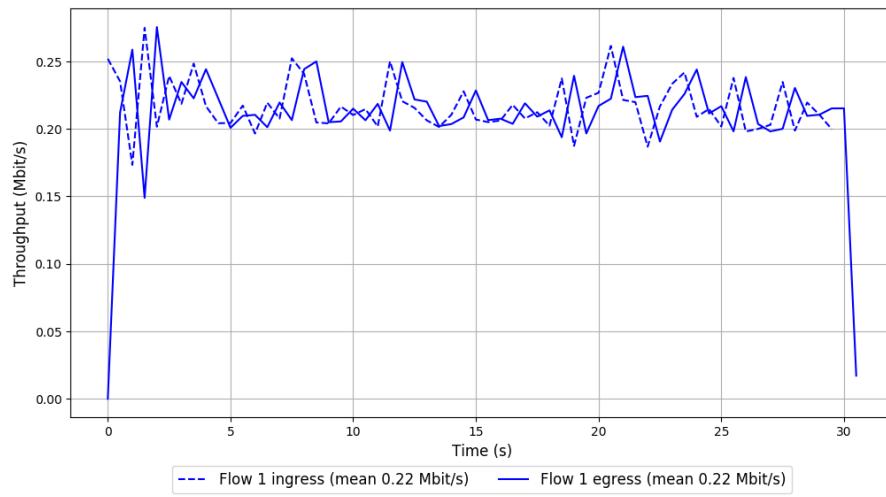


Run 3: Statistics of SCReAM

```
Start at: 2019-01-25 12:38:07
End at: 2019-01-25 12:38:37
Local clock offset: -0.403 ms
Remote clock offset: -0.182 ms

# Below is generated by plot.py at 2019-01-25 16:13:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.523 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.523 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

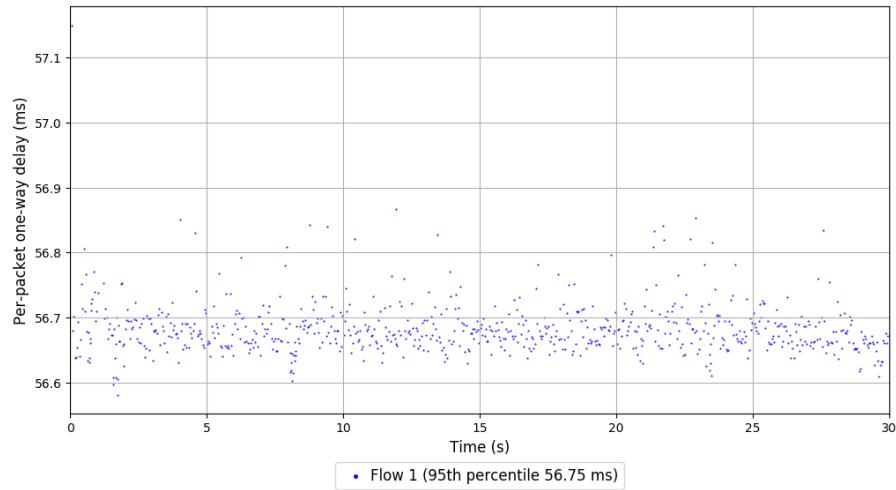
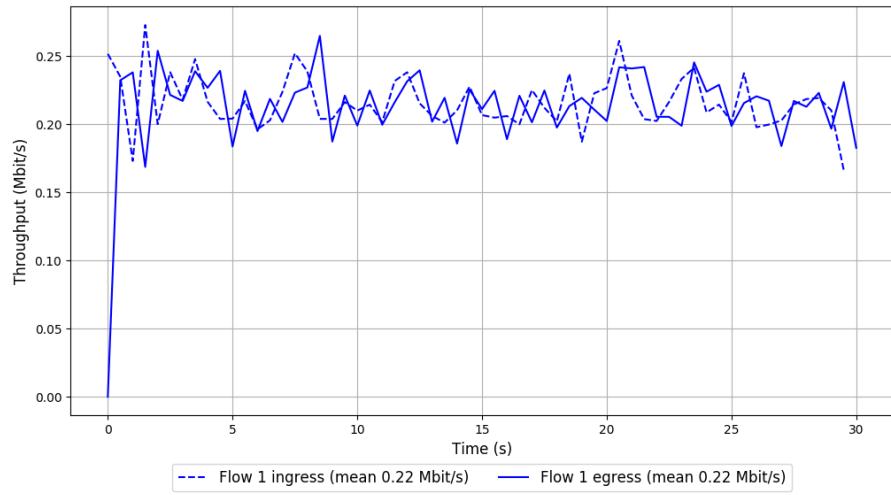


Run 4: Statistics of SCReAM

```
Start at: 2019-01-25 13:09:19
End at: 2019-01-25 13:09:49
Local clock offset: -0.249 ms
Remote clock offset: -0.742 ms

# Below is generated by plot.py at 2019-01-25 16:13:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.751 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.751 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

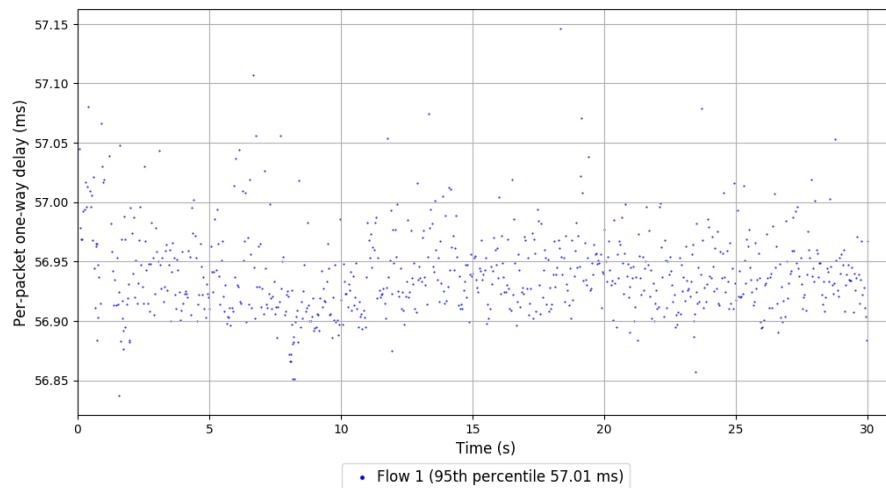
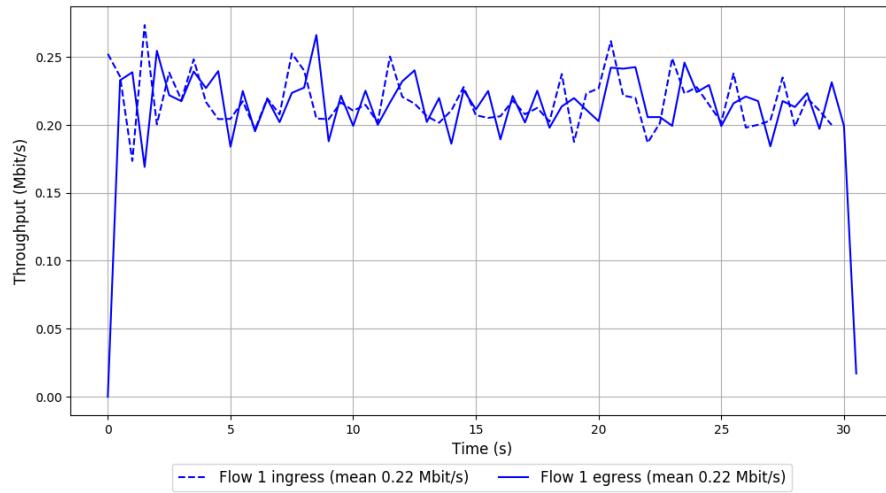


Run 5: Statistics of SCReAM

```
Start at: 2019-01-25 13:41:48
End at: 2019-01-25 13:42:18
Local clock offset: 0.368 ms
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2019-01-25 16:13:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.009 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.009 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

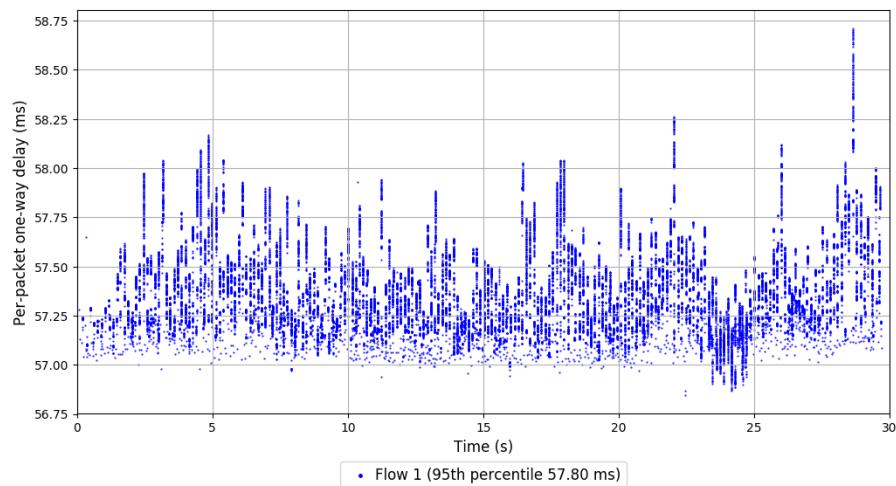
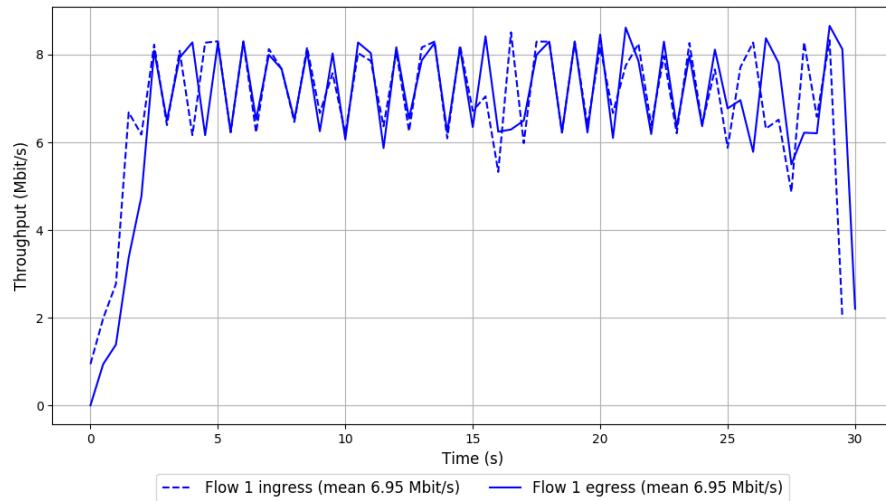


Run 1: Statistics of Sprout

```
Start at: 2019-01-25 11:53:33
End at: 2019-01-25 11:54:03
Local clock offset: -0.088 ms
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2019-01-25 16:13:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.95 Mbit/s
95th percentile per-packet one-way delay: 57.804 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.95 Mbit/s
95th percentile per-packet one-way delay: 57.804 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

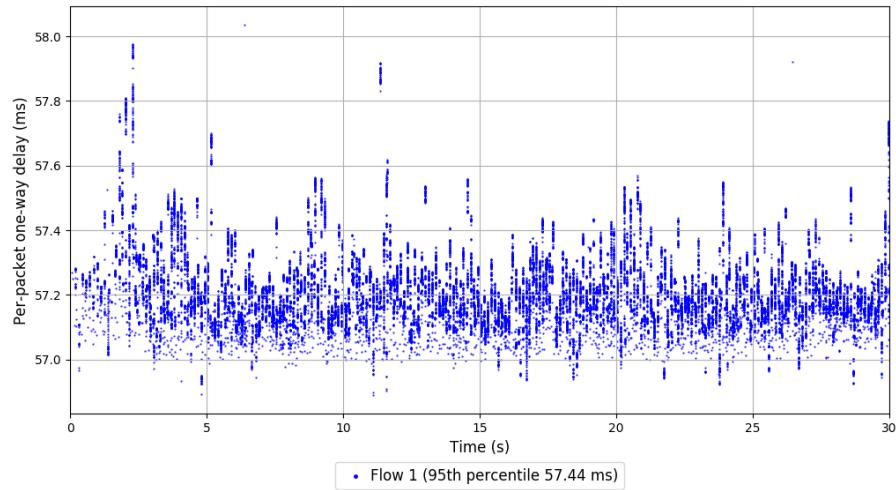
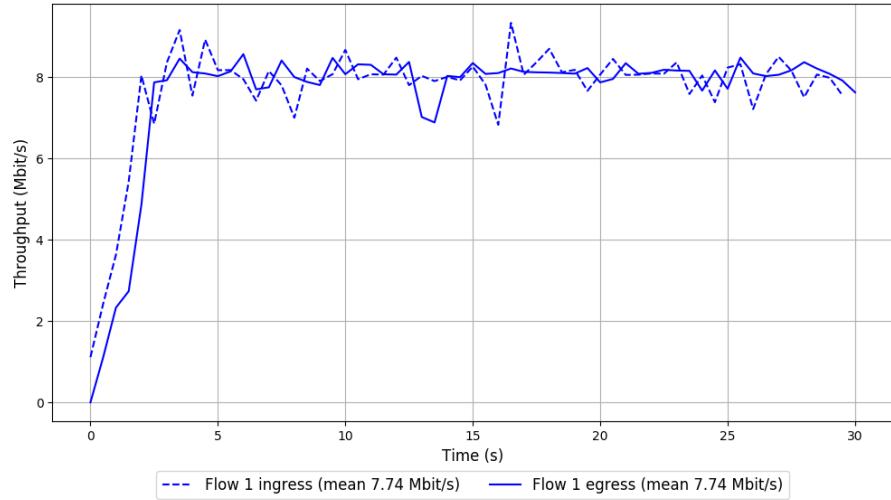


Run 2: Statistics of Sprout

```
Start at: 2019-01-25 12:25:07
End at: 2019-01-25 12:25:37
Local clock offset: -0.639 ms
Remote clock offset: -0.773 ms

# Below is generated by plot.py at 2019-01-25 16:13:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.74 Mbit/s
95th percentile per-packet one-way delay: 57.444 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.74 Mbit/s
95th percentile per-packet one-way delay: 57.444 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

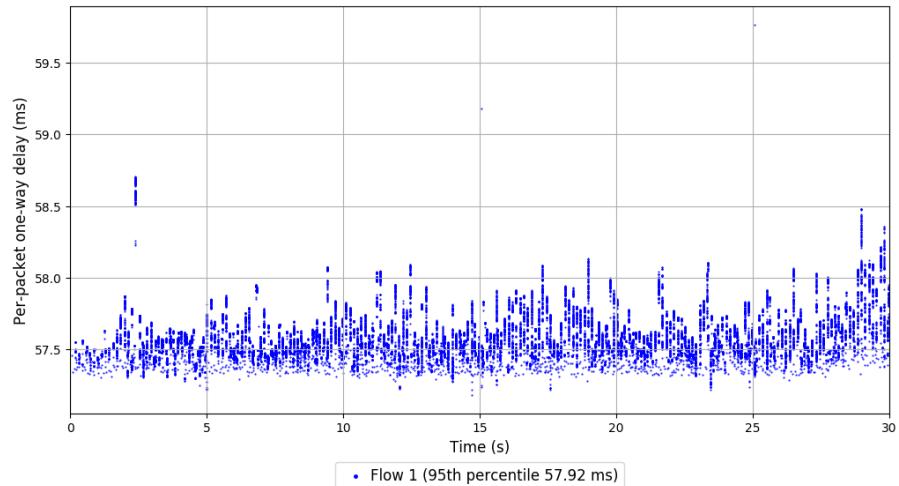
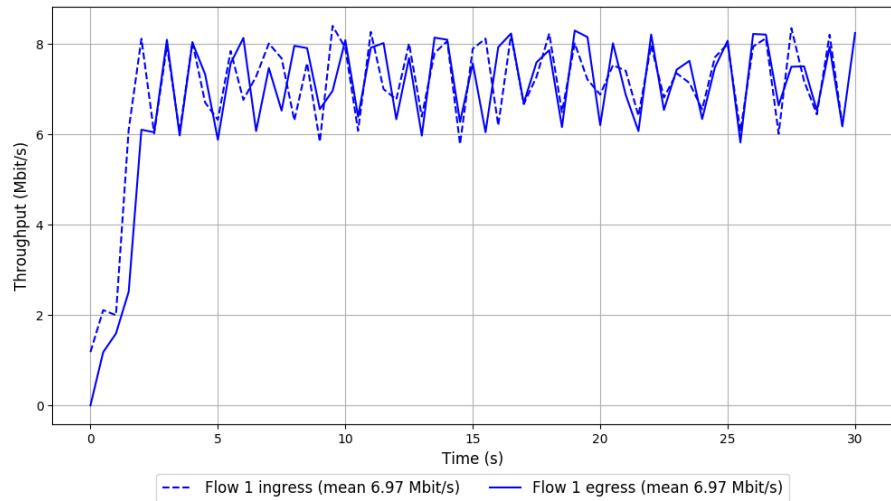


Run 3: Statistics of Sprout

```
Start at: 2019-01-25 12:56:18
End at: 2019-01-25 12:56:48
Local clock offset: -0.297 ms
Remote clock offset: -0.203 ms

# Below is generated by plot.py at 2019-01-25 16:13:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.97 Mbit/s
95th percentile per-packet one-way delay: 57.924 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.97 Mbit/s
95th percentile per-packet one-way delay: 57.924 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

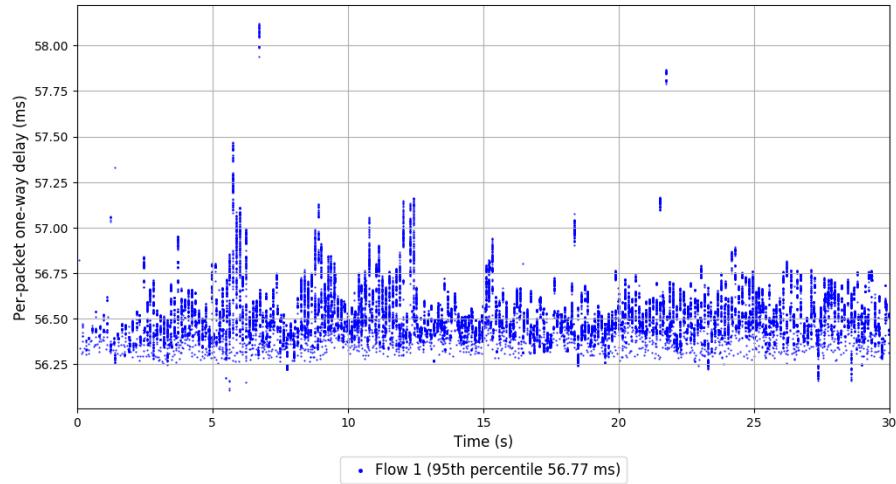
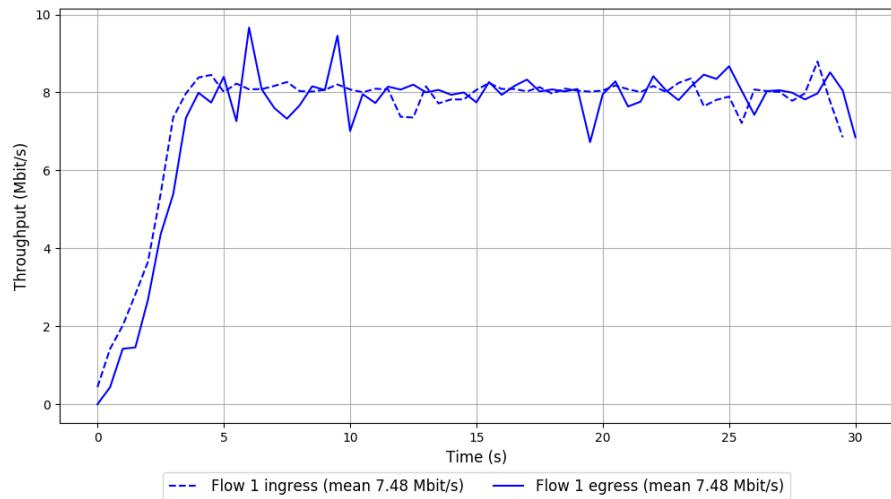


Run 4: Statistics of Sprout

```
Start at: 2019-01-25 13:28:23
End at: 2019-01-25 13:28:53
Local clock offset: 0.137 ms
Remote clock offset: -0.765 ms

# Below is generated by plot.py at 2019-01-25 16:13:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.48 Mbit/s
95th percentile per-packet one-way delay: 56.775 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.48 Mbit/s
95th percentile per-packet one-way delay: 56.775 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

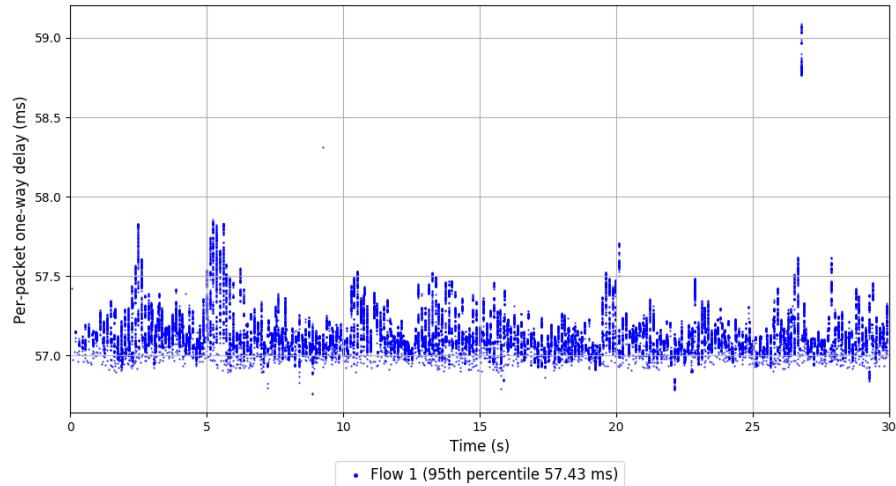
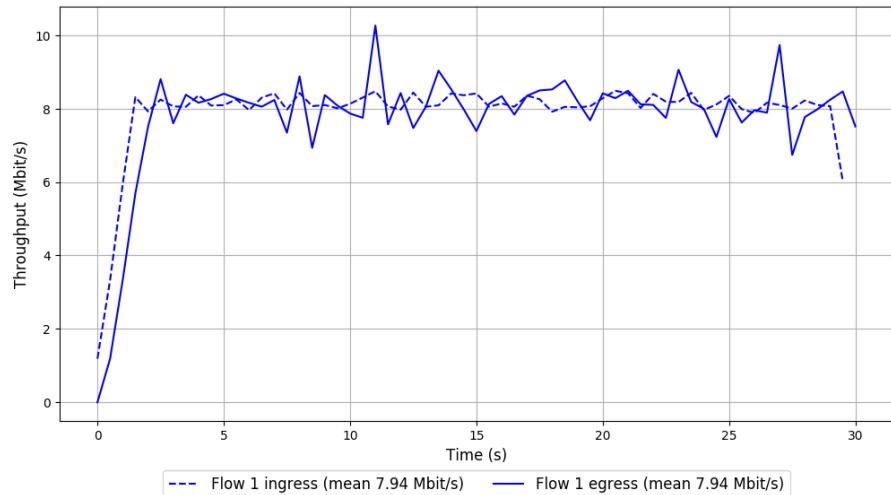


Run 5: Statistics of Sprout

```
Start at: 2019-01-25 14:00:09
End at: 2019-01-25 14:00:39
Local clock offset: 0.364 ms
Remote clock offset: 0.16 ms

# Below is generated by plot.py at 2019-01-25 16:13:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.94 Mbit/s
95th percentile per-packet one-way delay: 57.428 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.94 Mbit/s
95th percentile per-packet one-way delay: 57.428 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

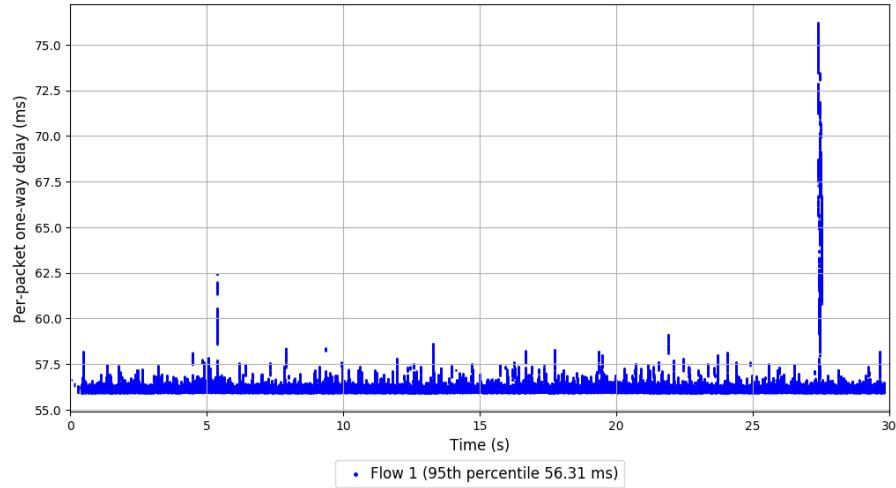
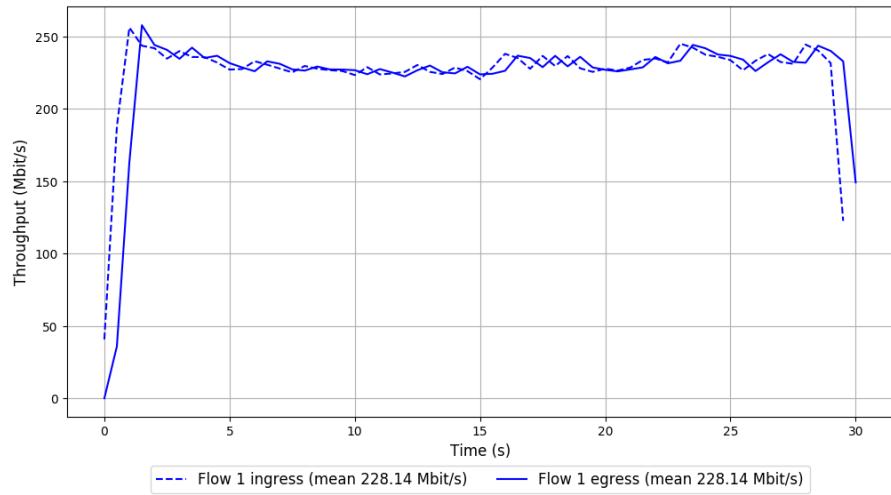


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-01-25 11:43:45
End at: 2019-01-25 11:44:15
Local clock offset: 0.375 ms
Remote clock offset: -0.69 ms

# Below is generated by plot.py at 2019-01-25 16:13:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 228.14 Mbit/s
95th percentile per-packet one-way delay: 56.310 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 228.14 Mbit/s
95th percentile per-packet one-way delay: 56.310 ms
Loss rate: 0.00%
```

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

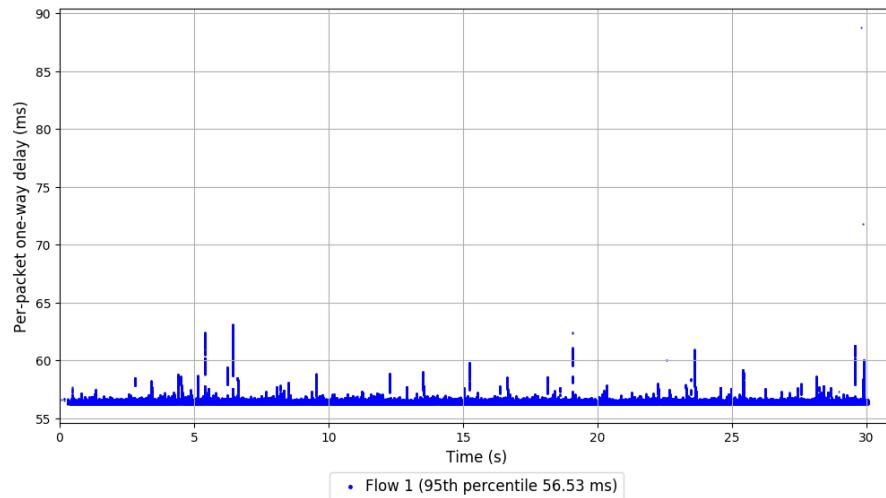
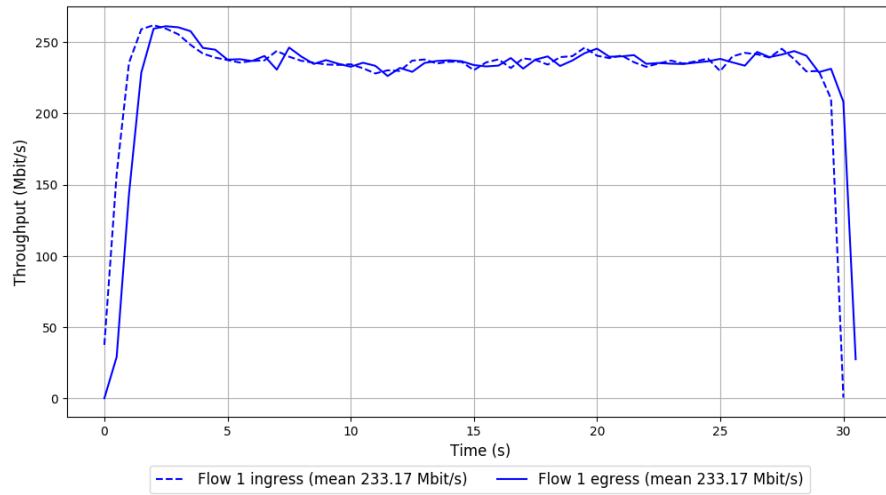


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-01-25 12:15:19
End at: 2019-01-25 12:15:49
Local clock offset: 0.028 ms
Remote clock offset: -0.75 ms

# Below is generated by plot.py at 2019-01-25 16:13:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 233.17 Mbit/s
95th percentile per-packet one-way delay: 56.530 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 233.17 Mbit/s
95th percentile per-packet one-way delay: 56.530 ms
Loss rate: 0.00%
```

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

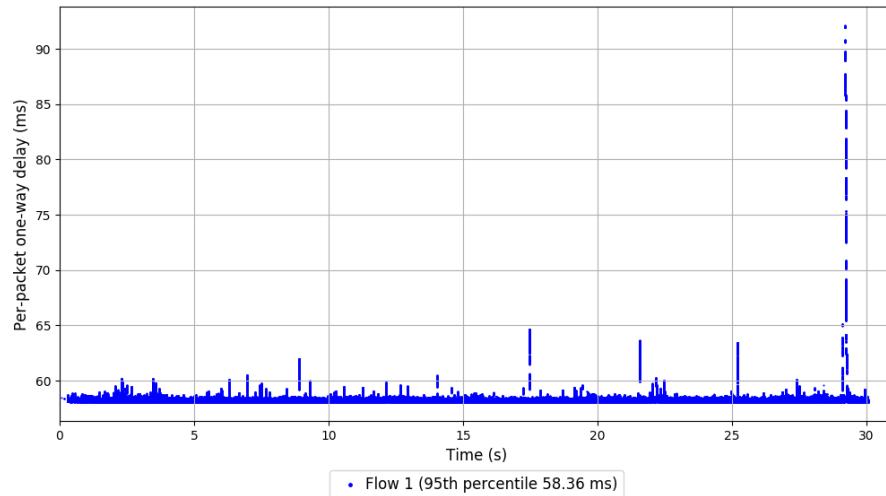
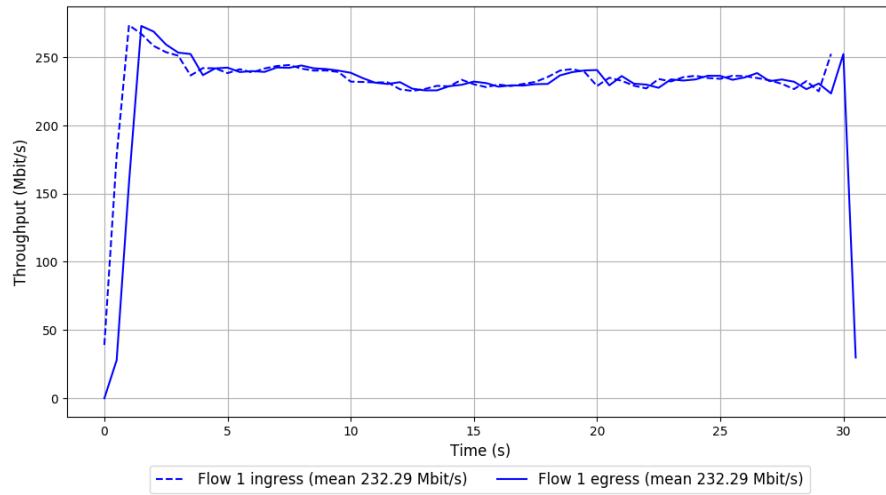


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-01-25 12:46:39
End at: 2019-01-25 12:47:09
Local clock offset: -0.414 ms
Remote clock offset: 0.596 ms

# Below is generated by plot.py at 2019-01-25 16:13:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 232.29 Mbit/s
95th percentile per-packet one-way delay: 58.357 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 232.29 Mbit/s
95th percentile per-packet one-way delay: 58.357 ms
Loss rate: 0.00%
```

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

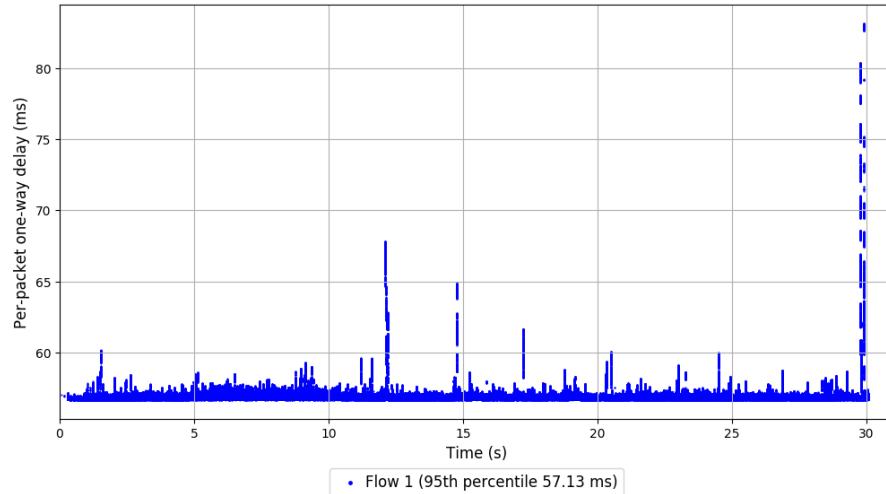
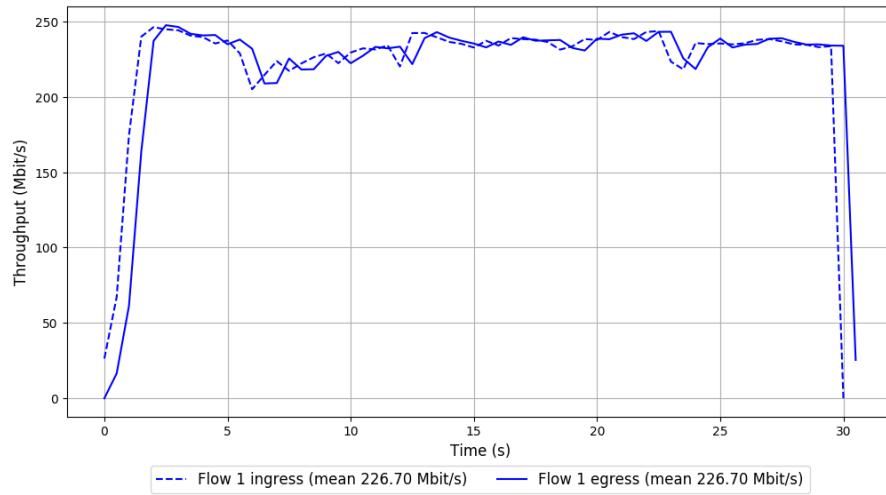


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-01-25 13:17:55
End at: 2019-01-25 13:18:25
Local clock offset: 0.336 ms
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2019-01-25 16:13:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 226.70 Mbit/s
95th percentile per-packet one-way delay: 57.131 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 226.70 Mbit/s
95th percentile per-packet one-way delay: 57.131 ms
Loss rate: 0.00%
```

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

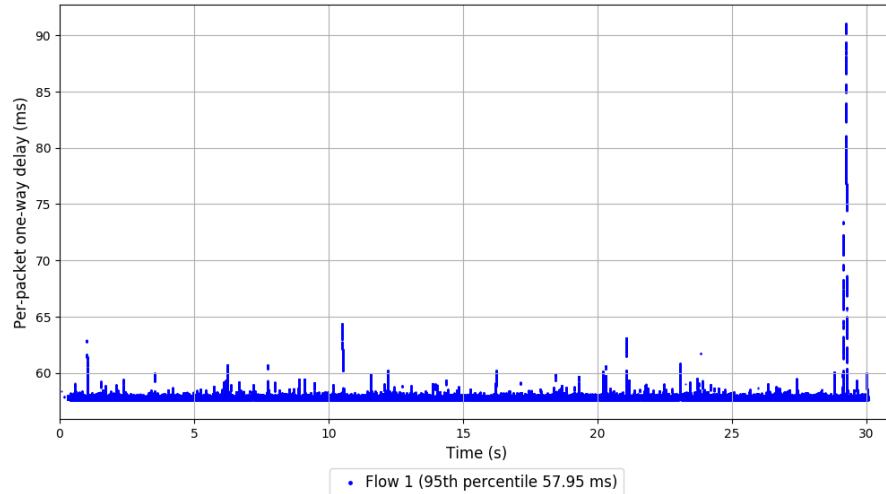
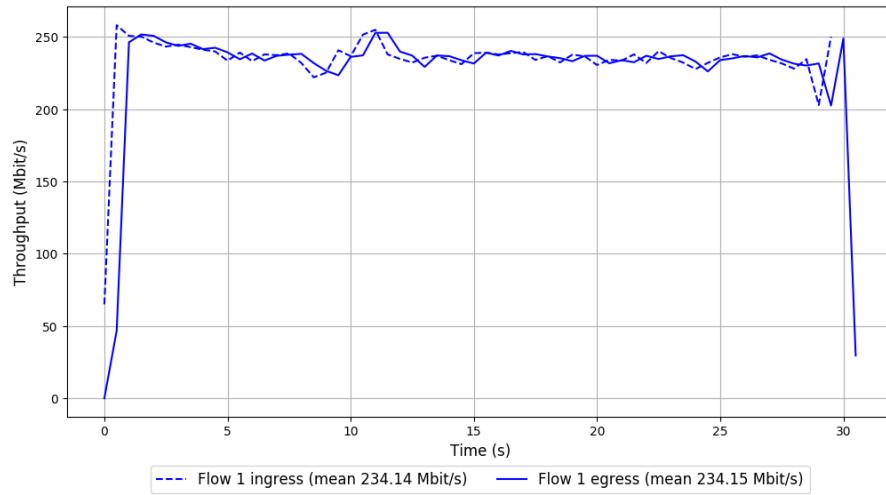


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-01-25 13:50:24
End at: 2019-01-25 13:50:54
Local clock offset: -0.195 ms
Remote clock offset: 0.647 ms

# Below is generated by plot.py at 2019-01-25 16:13:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 234.15 Mbit/s
95th percentile per-packet one-way delay: 57.948 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 234.15 Mbit/s
95th percentile per-packet one-way delay: 57.948 ms
Loss rate: 0.00%
```

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

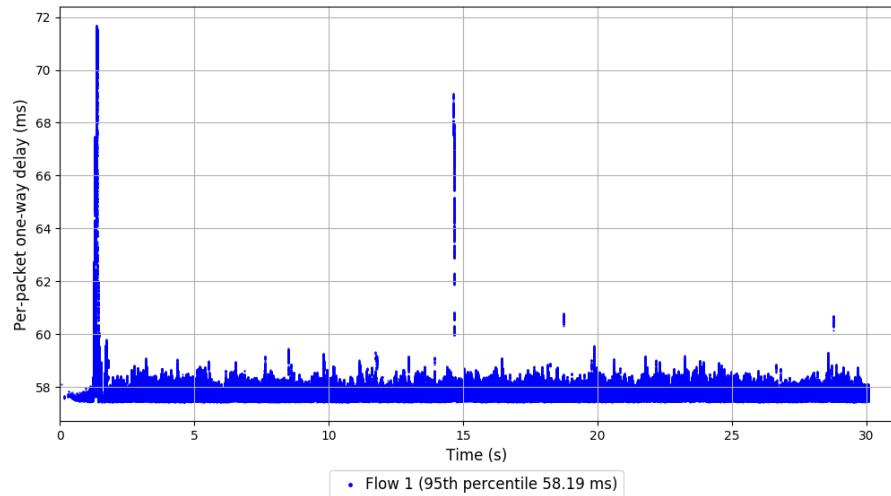
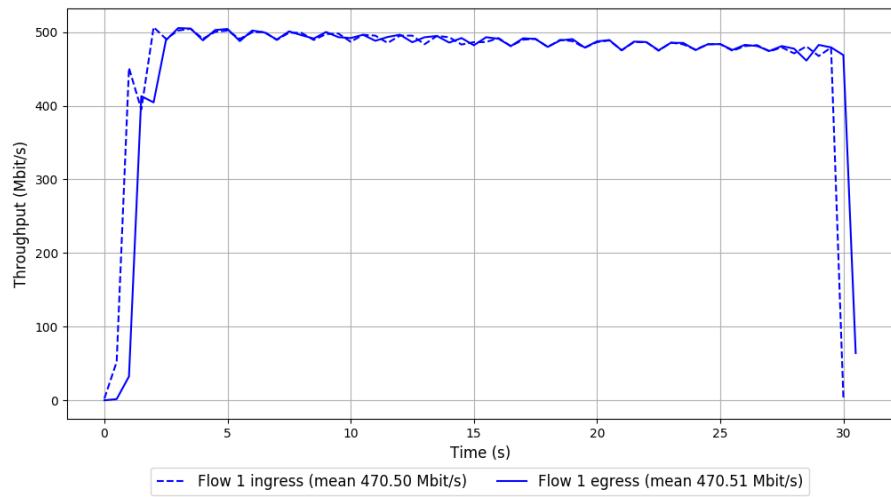


Run 1: Statistics of TCP Vegas

```
Start at: 2019-01-25 11:47:00
End at: 2019-01-25 11:47:30
Local clock offset: 0.152 ms
Remote clock offset: 0.468 ms

# Below is generated by plot.py at 2019-01-25 16:13:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 470.51 Mbit/s
95th percentile per-packet one-way delay: 58.190 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 470.51 Mbit/s
95th percentile per-packet one-way delay: 58.190 ms
Loss rate: 0.00%
```

Run 1: Report of TCP Vegas — Data Link

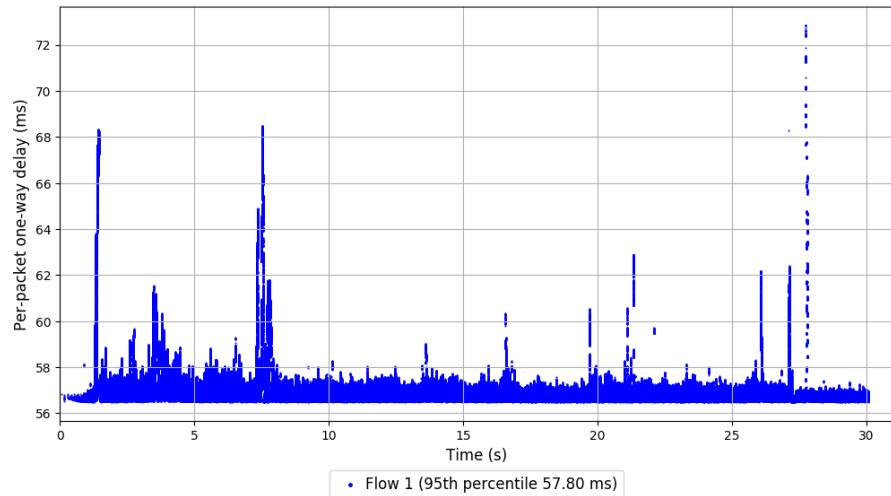
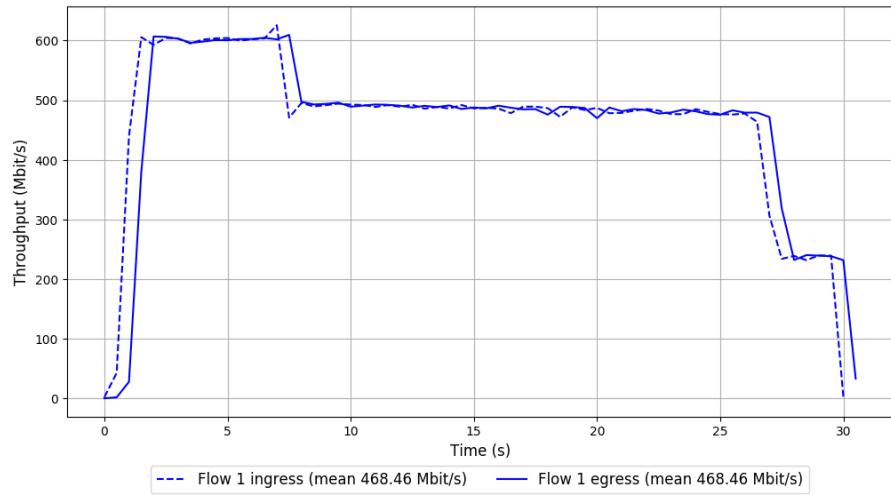


Run 2: Statistics of TCP Vegas

```
Start at: 2019-01-25 12:18:35
End at: 2019-01-25 12:19:05
Local clock offset: -0.393 ms
Remote clock offset: -0.799 ms

# Below is generated by plot.py at 2019-01-25 16:21:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 468.46 Mbit/s
95th percentile per-packet one-way delay: 57.795 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 468.46 Mbit/s
95th percentile per-packet one-way delay: 57.795 ms
Loss rate: 0.00%
```

Run 2: Report of TCP Vegas — Data Link

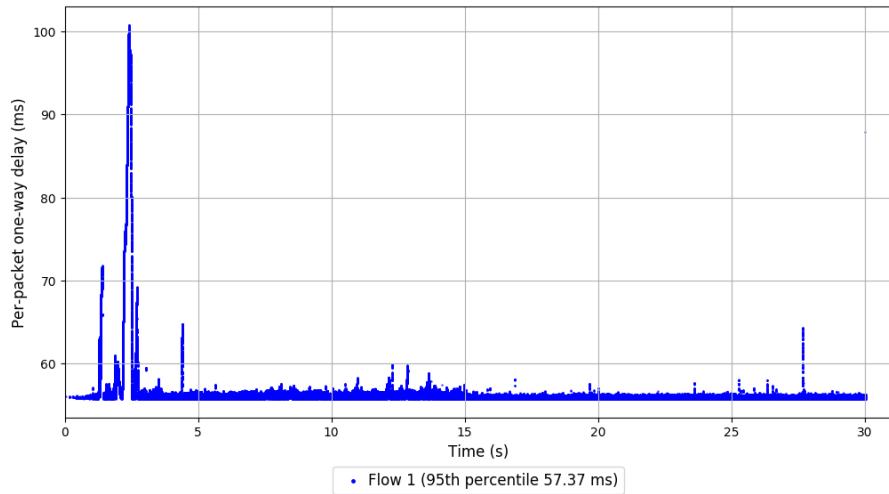
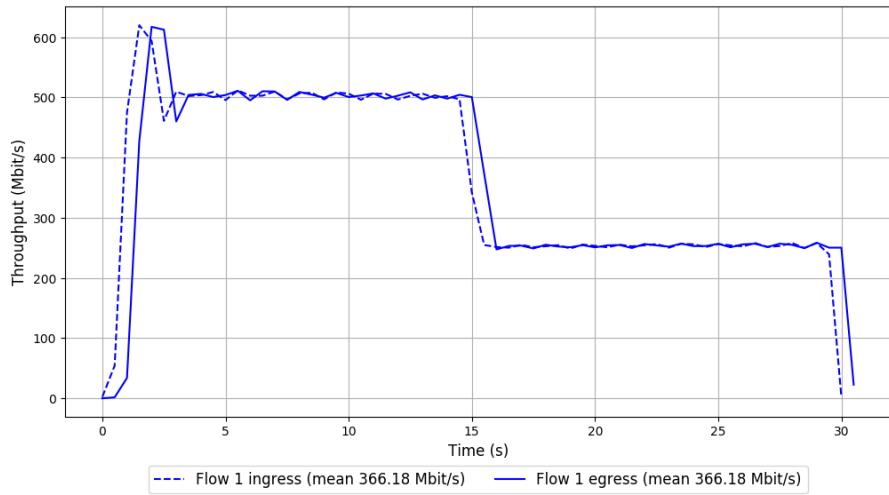


Run 3: Statistics of TCP Vegas

```
Start at: 2019-01-25 12:49:53
End at: 2019-01-25 12:50:23
Local clock offset: 0.281 ms
Remote clock offset: -0.835 ms

# Below is generated by plot.py at 2019-01-25 16:21:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 366.18 Mbit/s
95th percentile per-packet one-way delay: 57.368 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 366.18 Mbit/s
95th percentile per-packet one-way delay: 57.368 ms
Loss rate: 0.00%
```

Run 3: Report of TCP Vegas — Data Link

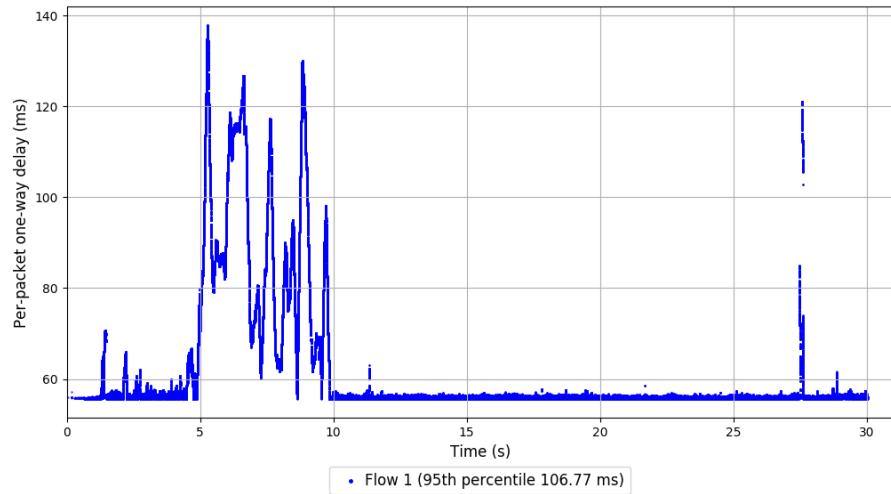
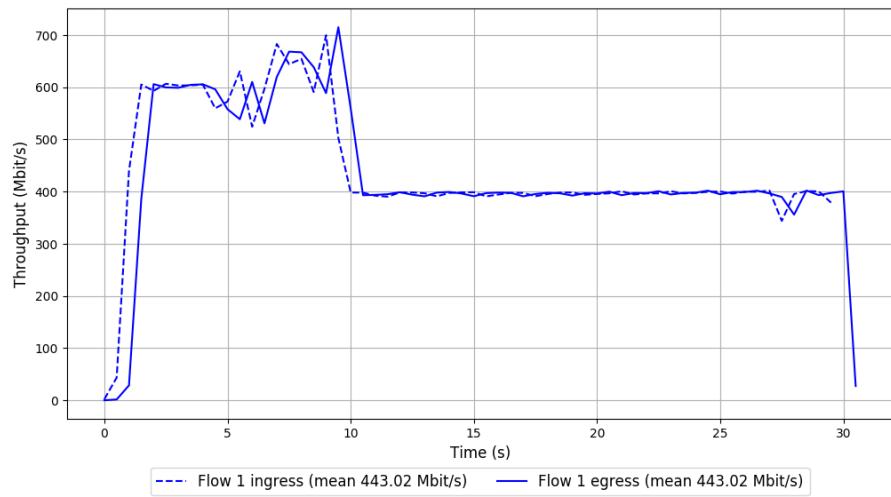


Run 4: Statistics of TCP Vegas

```
Start at: 2019-01-25 13:21:31
End at: 2019-01-25 13:22:01
Local clock offset: 0.375 ms
Remote clock offset: -0.664 ms

# Below is generated by plot.py at 2019-01-25 16:21:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 443.02 Mbit/s
95th percentile per-packet one-way delay: 106.766 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 443.02 Mbit/s
95th percentile per-packet one-way delay: 106.766 ms
Loss rate: 0.00%
```

Run 4: Report of TCP Vegas — Data Link

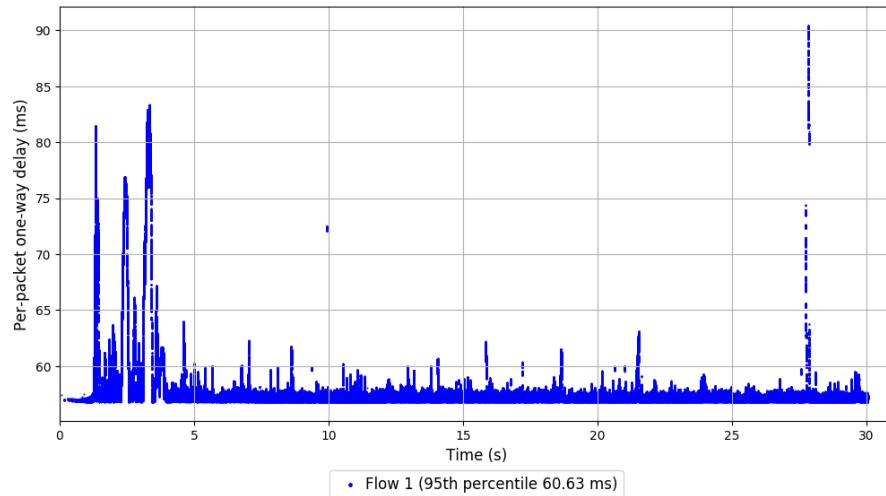
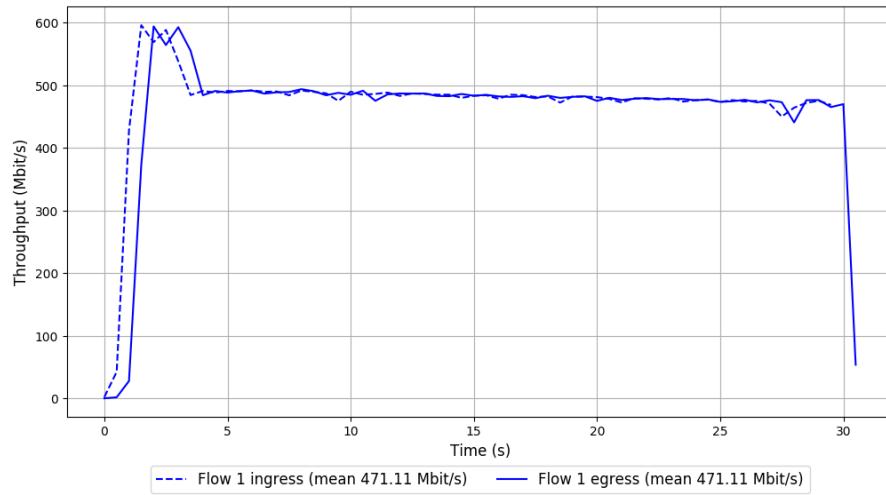


Run 5: Statistics of TCP Vegas

```
Start at: 2019-01-25 13:53:41
End at: 2019-01-25 13:54:11
Local clock offset: 0.255 ms
Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2019-01-25 16:21:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 471.11 Mbit/s
95th percentile per-packet one-way delay: 60.629 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 471.11 Mbit/s
95th percentile per-packet one-way delay: 60.629 ms
Loss rate: 0.00%
```

Run 5: Report of TCP Vegas — Data Link

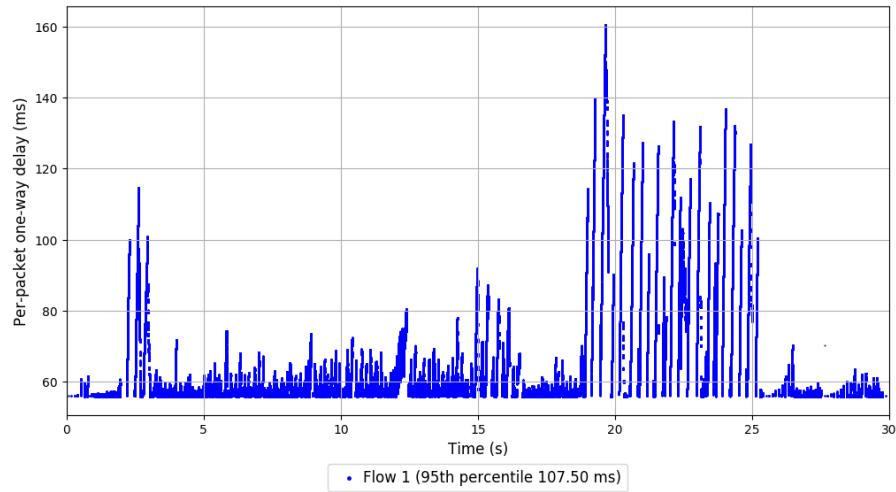
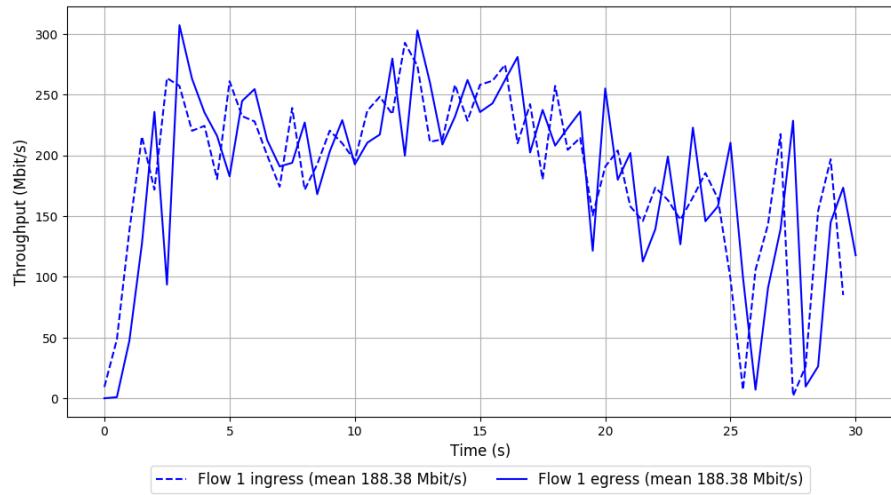


Run 1: Statistics of Verus

```
Start at: 2019-01-25 11:36:44
End at: 2019-01-25 11:37:14
Local clock offset: 0.34 ms
Remote clock offset: -0.517 ms

# Below is generated by plot.py at 2019-01-25 16:21:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 188.38 Mbit/s
95th percentile per-packet one-way delay: 107.504 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 188.38 Mbit/s
95th percentile per-packet one-way delay: 107.504 ms
Loss rate: 0.00%
```

Run 1: Report of Verus — Data Link

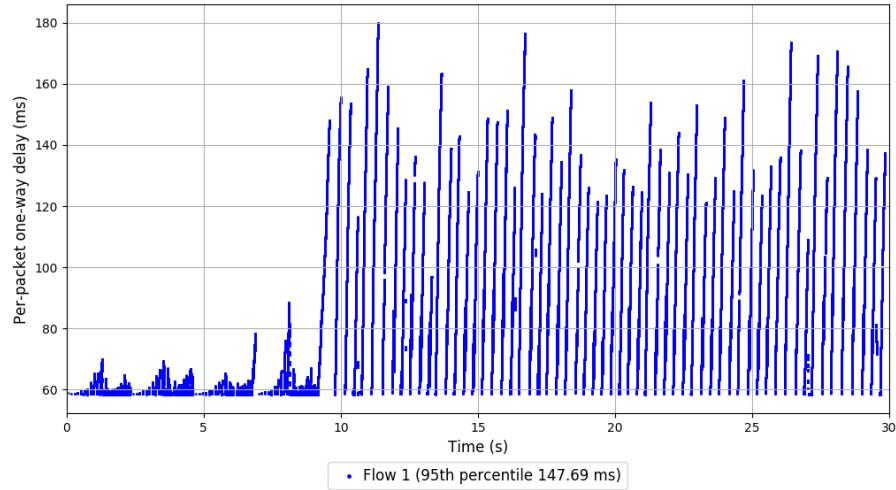
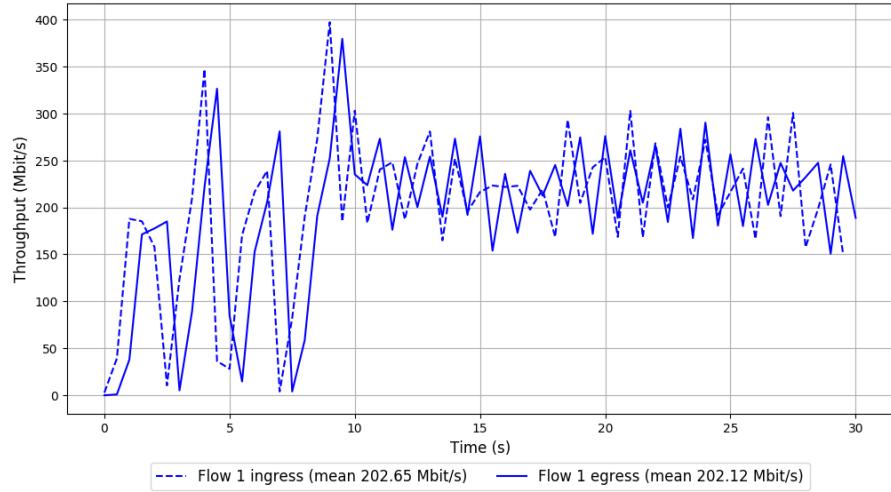


Run 2: Statistics of Verus

```
Start at: 2019-01-25 12:07:49
End at: 2019-01-25 12:08:19
Local clock offset: -0.414 ms
Remote clock offset: 1.148 ms

# Below is generated by plot.py at 2019-01-25 16:21:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 202.12 Mbit/s
95th percentile per-packet one-way delay: 147.689 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 202.12 Mbit/s
95th percentile per-packet one-way delay: 147.689 ms
Loss rate: 0.00%
```

Run 2: Report of Verus — Data Link

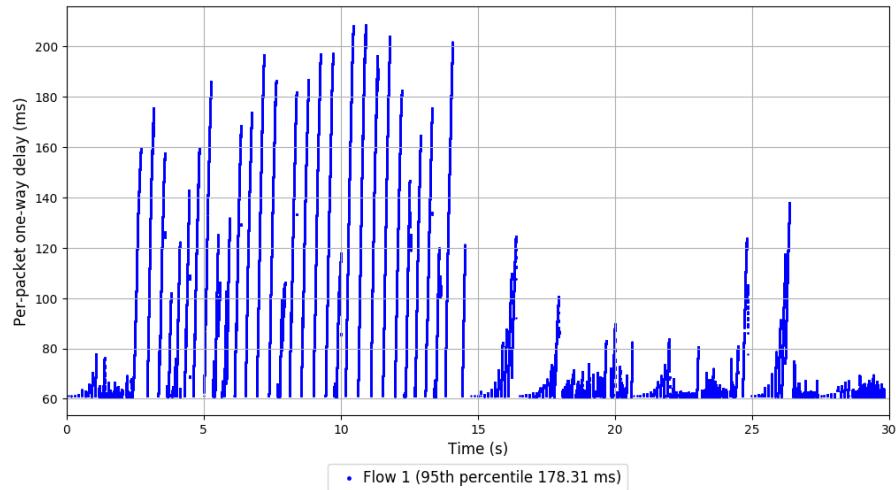
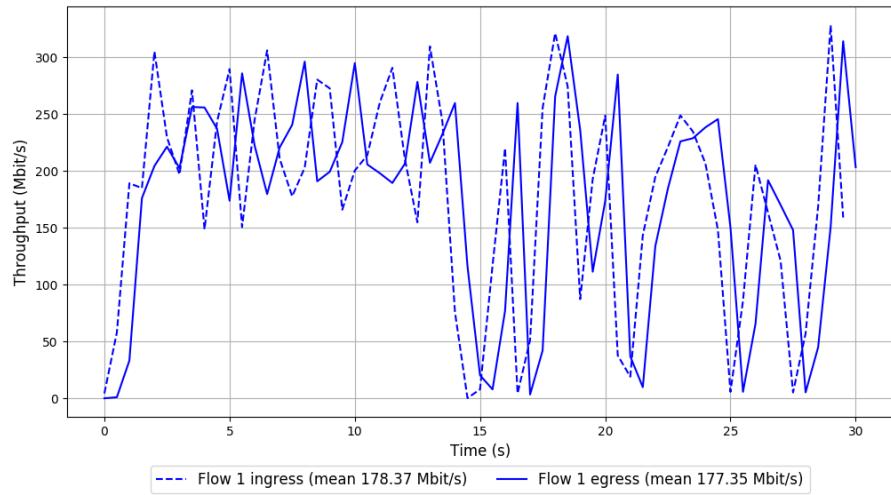


Run 3: Statistics of Verus

```
Start at: 2019-01-25 12:39:15
End at: 2019-01-25 12:39:45
Local clock offset: -0.556 ms
Remote clock offset: -0.13 ms

# Below is generated by plot.py at 2019-01-25 16:21:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 177.35 Mbit/s
95th percentile per-packet one-way delay: 178.308 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 177.35 Mbit/s
95th percentile per-packet one-way delay: 178.308 ms
Loss rate: 0.57%
```

Run 3: Report of Verus — Data Link

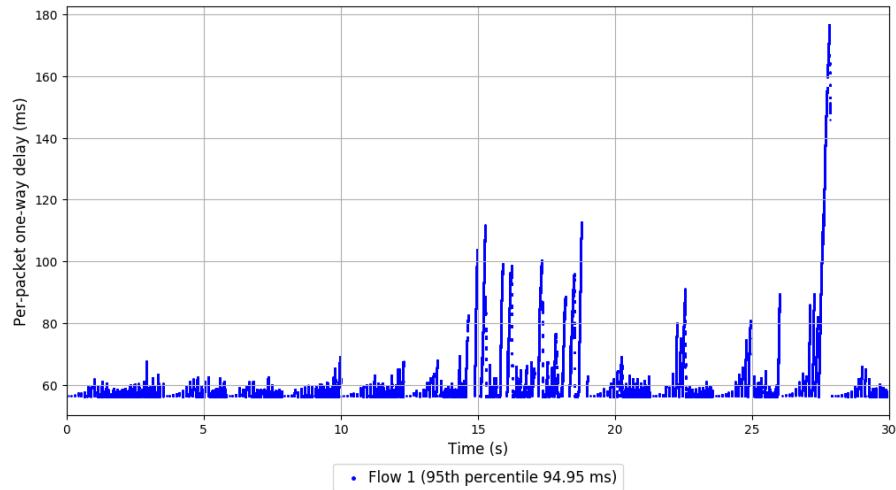
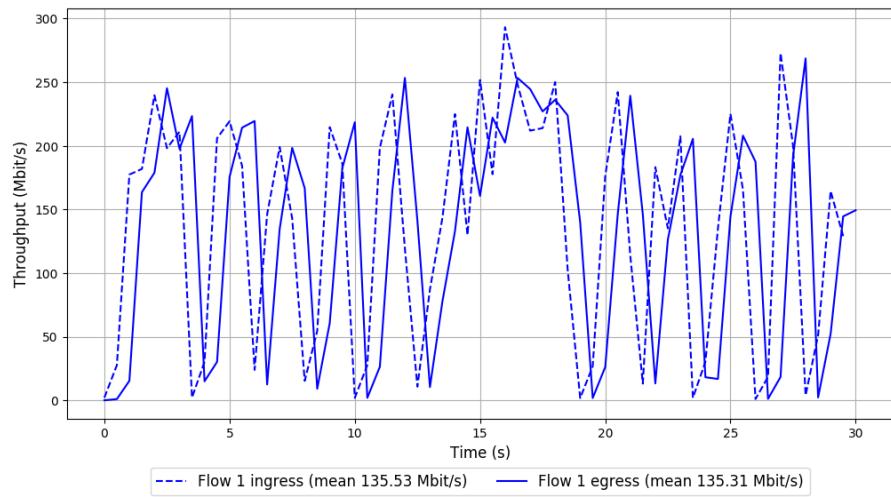


Run 4: Statistics of Verus

```
Start at: 2019-01-25 13:10:27
End at: 2019-01-25 13:10:57
Local clock offset: -0.295 ms
Remote clock offset: -0.742 ms

# Below is generated by plot.py at 2019-01-25 16:21:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 135.31 Mbit/s
95th percentile per-packet one-way delay: 94.949 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 135.31 Mbit/s
95th percentile per-packet one-way delay: 94.949 ms
Loss rate: 0.16%
```

Run 4: Report of Verus — Data Link

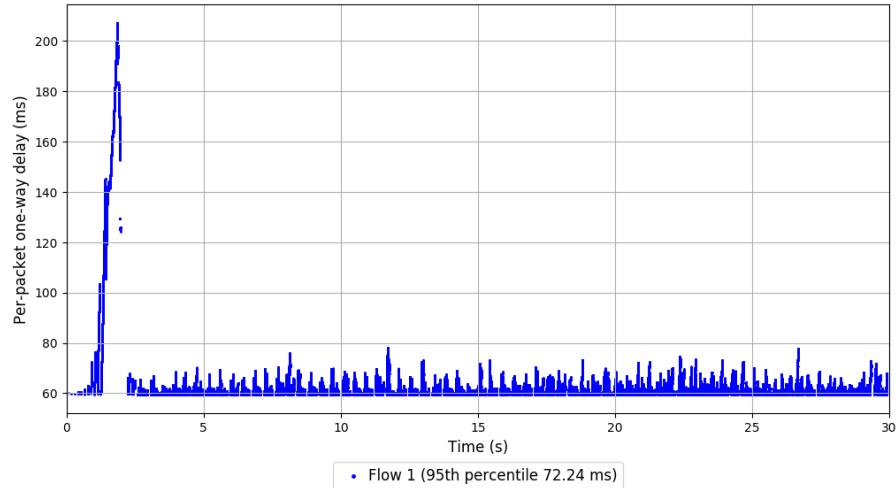
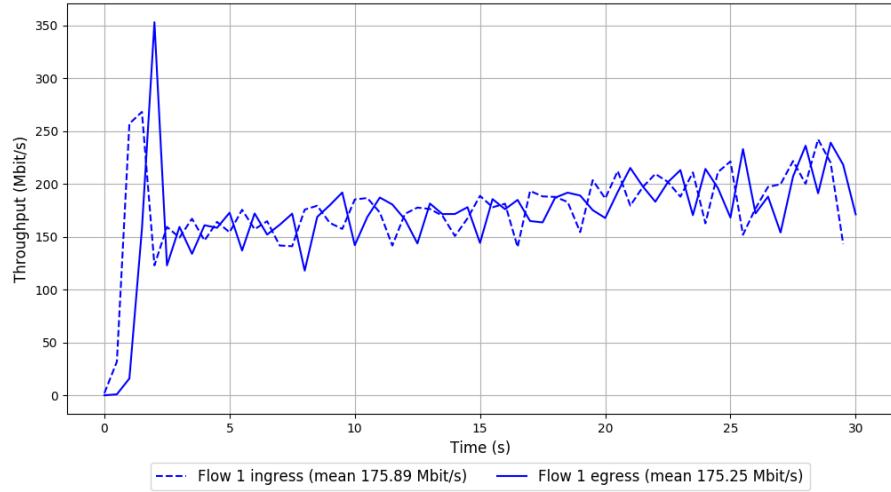


Run 5: Statistics of Verus

```
Start at: 2019-01-25 13:42:56
End at: 2019-01-25 13:43:26
Local clock offset: 0.029 ms
Remote clock offset: -0.65 ms

# Below is generated by plot.py at 2019-01-25 16:23:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 175.25 Mbit/s
95th percentile per-packet one-way delay: 72.238 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 175.25 Mbit/s
95th percentile per-packet one-way delay: 72.238 ms
Loss rate: 0.37%
```

Run 5: Report of Verus — Data Link

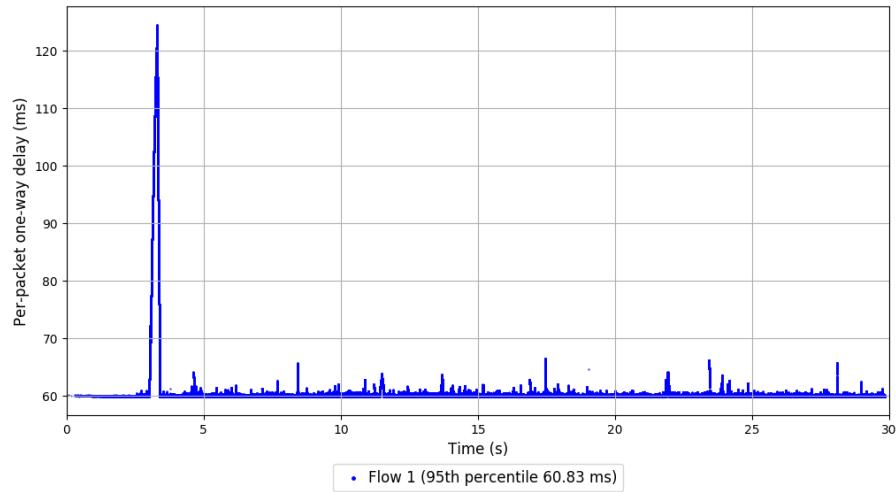
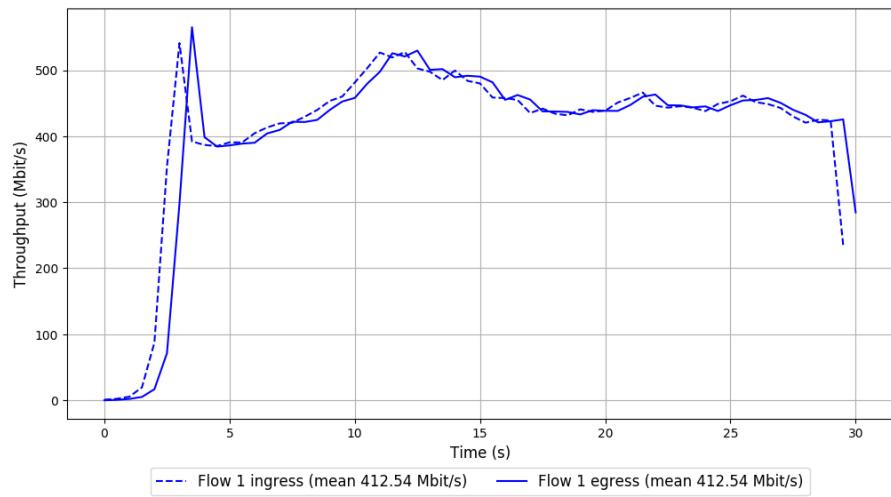


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-01-25 11:57:26
End at: 2019-01-25 11:57:56
Local clock offset: 0.209 ms
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2019-01-25 16:26:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 412.54 Mbit/s
95th percentile per-packet one-way delay: 60.829 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 412.54 Mbit/s
95th percentile per-packet one-way delay: 60.829 ms
Loss rate: 0.01%
```

Run 1: Report of PCC-Vivace — Data Link

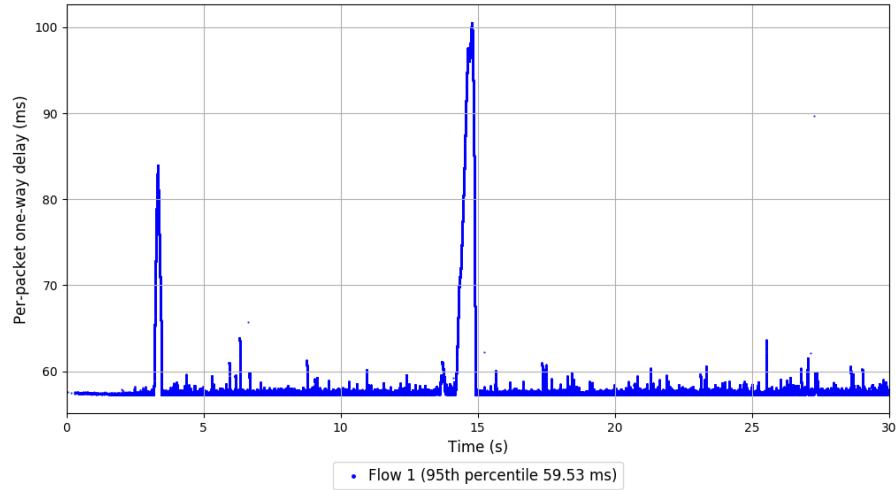
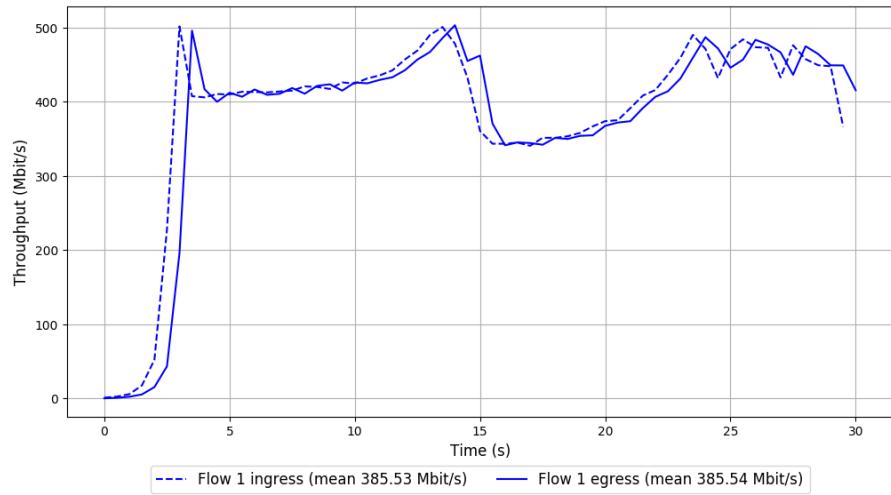


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-01-25 12:29:01
End at: 2019-01-25 12:29:31
Local clock offset: 0.208 ms
Remote clock offset: 0.27 ms

# Below is generated by plot.py at 2019-01-25 16:26:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 385.54 Mbit/s
95th percentile per-packet one-way delay: 59.527 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 385.54 Mbit/s
95th percentile per-packet one-way delay: 59.527 ms
Loss rate: 0.00%
```

Run 2: Report of PCC-Vivace — Data Link

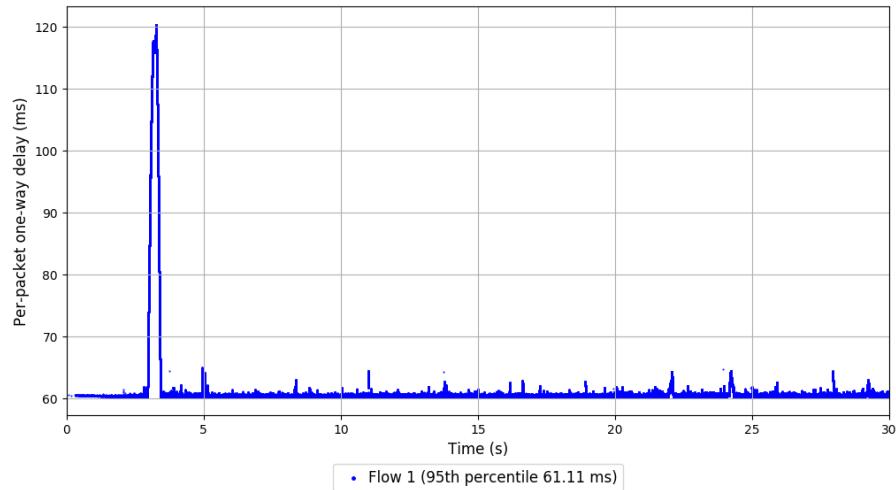
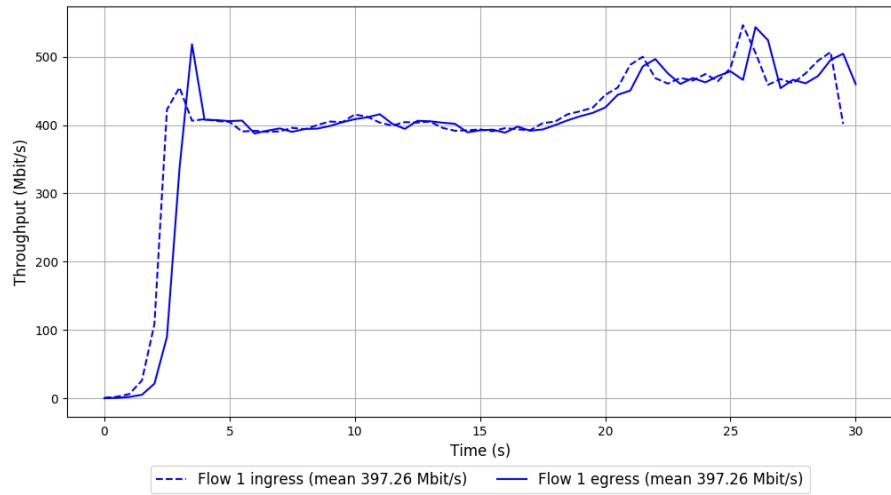


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-01-25 13:00:10
End at: 2019-01-25 13:00:40
Local clock offset: -0.099 ms
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2019-01-25 16:26:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 397.26 Mbit/s
95th percentile per-packet one-way delay: 61.111 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 397.26 Mbit/s
95th percentile per-packet one-way delay: 61.111 ms
Loss rate: 0.01%
```

Run 3: Report of PCC-Vivace — Data Link

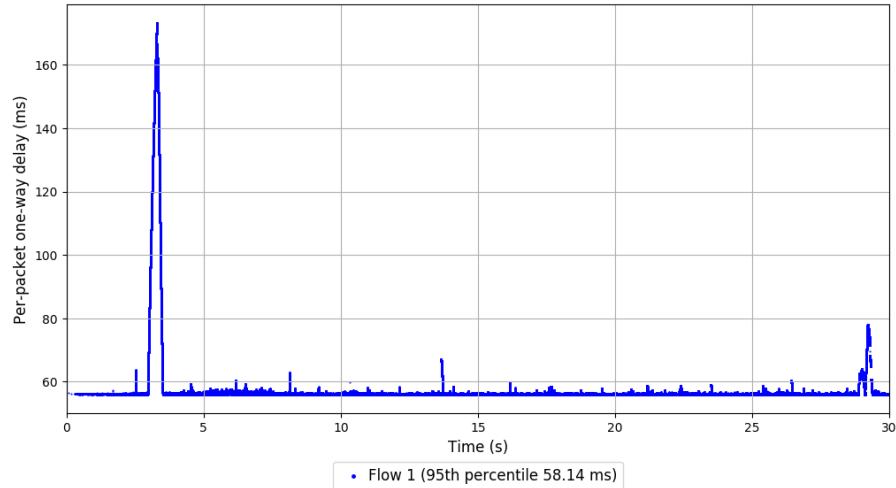
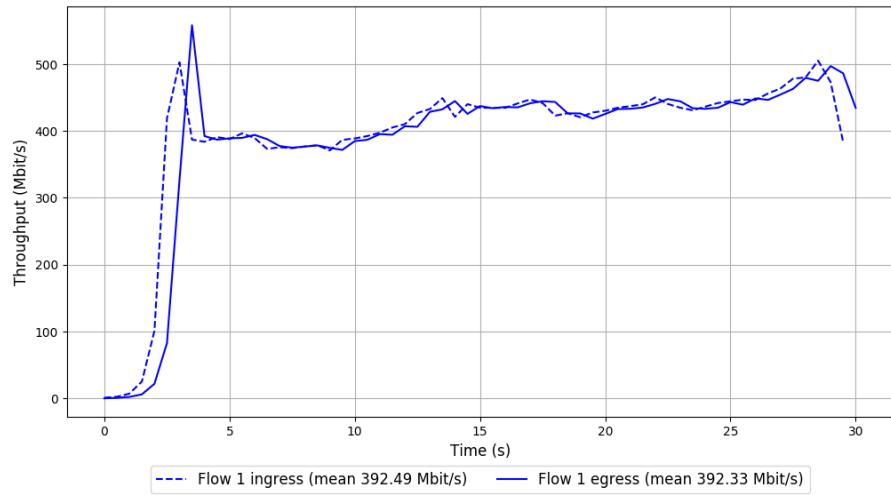


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-01-25 13:32:23
End at: 2019-01-25 13:32:53
Local clock offset: 0.156 ms
Remote clock offset: -0.958 ms

# Below is generated by plot.py at 2019-01-25 16:26:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 392.33 Mbit/s
95th percentile per-packet one-way delay: 58.143 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 392.33 Mbit/s
95th percentile per-packet one-way delay: 58.143 ms
Loss rate: 0.04%
```

Run 4: Report of PCC-Vivace — Data Link

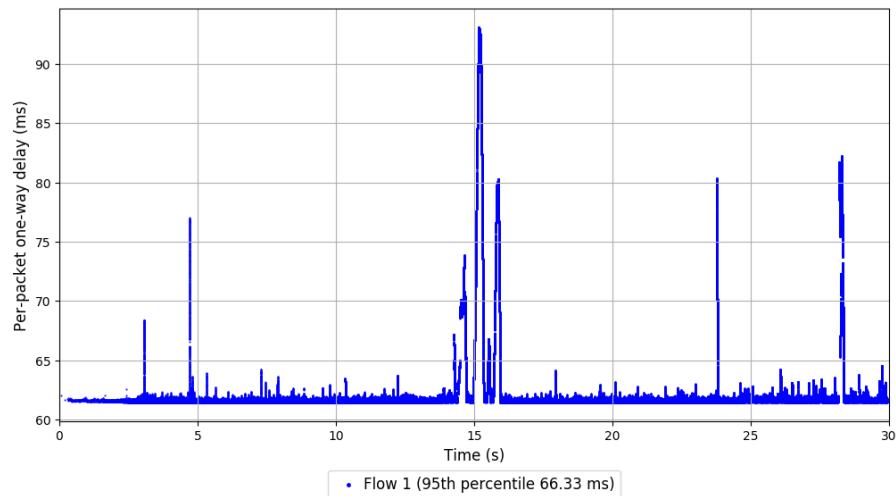
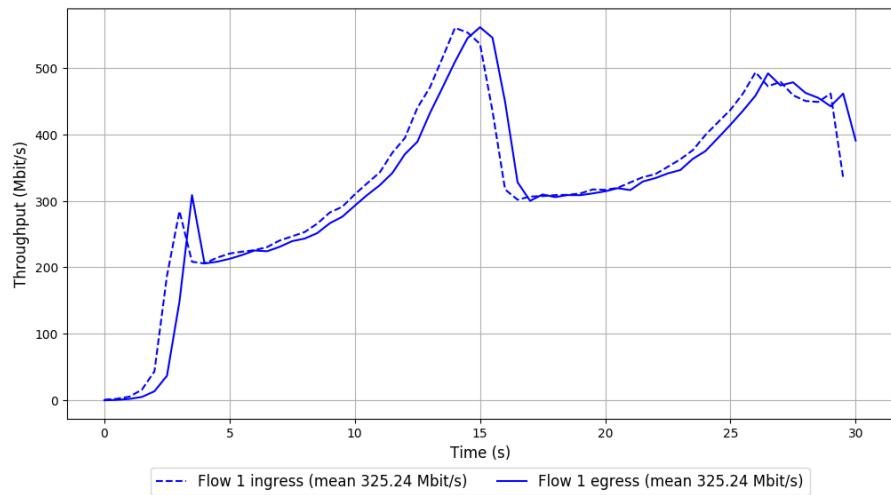


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-01-25 14:04:03
End at: 2019-01-25 14:04:33
Local clock offset: -0.334 ms
Remote clock offset: 0.8 ms

# Below is generated by plot.py at 2019-01-25 16:26:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 325.24 Mbit/s
95th percentile per-packet one-way delay: 66.328 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 325.24 Mbit/s
95th percentile per-packet one-way delay: 66.328 ms
Loss rate: 0.01%
```

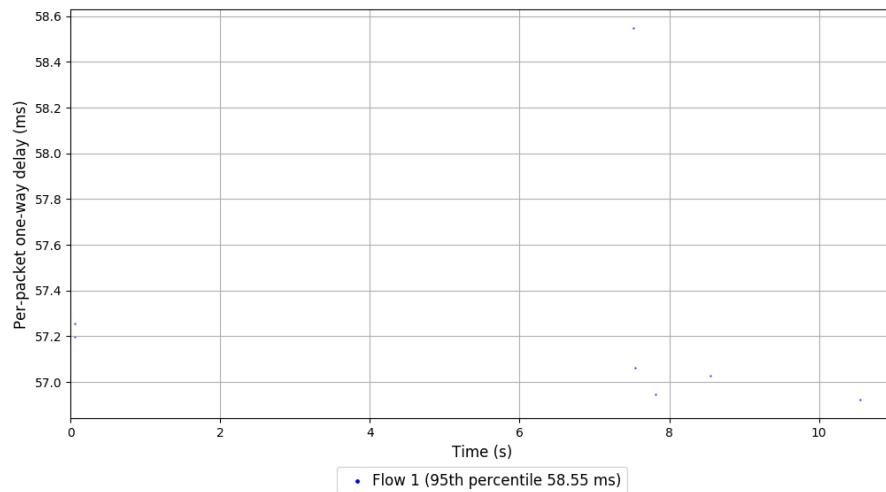
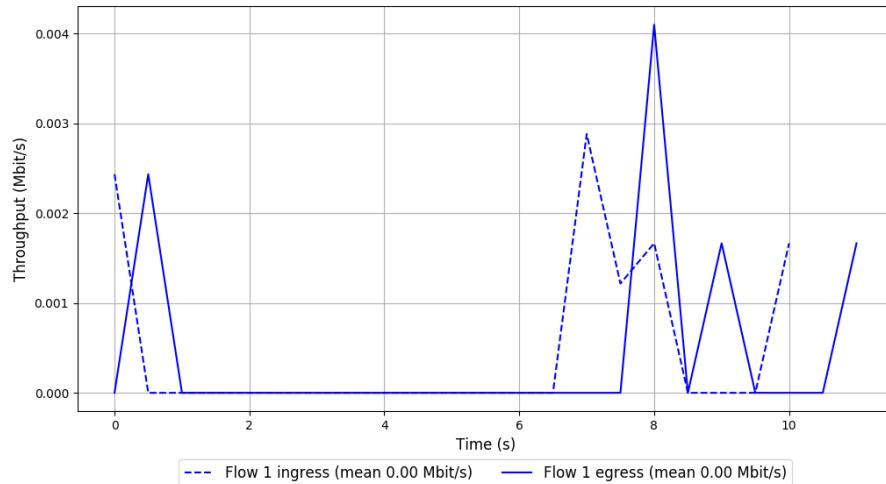
Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-01-25 11:56:18
End at: 2019-01-25 11:56:48
Local clock offset: -0.297 ms
Remote clock offset: -0.899 ms

Run 1: Report of WebRTC media — Data Link

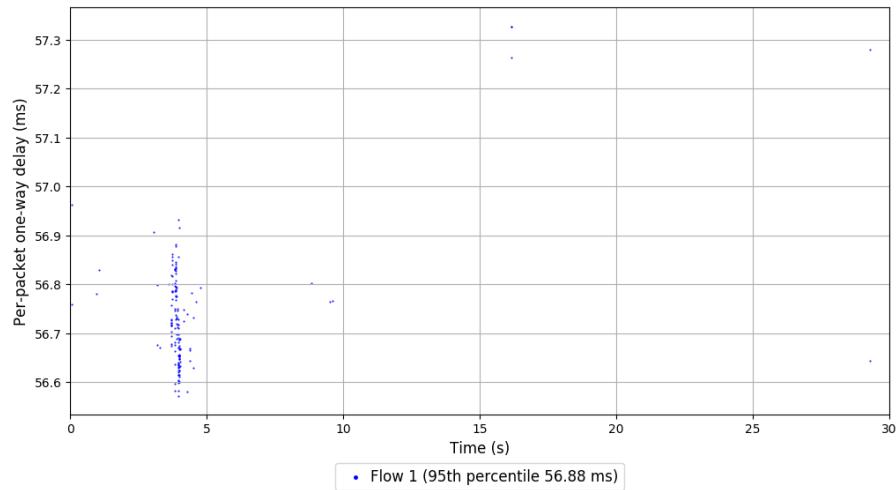
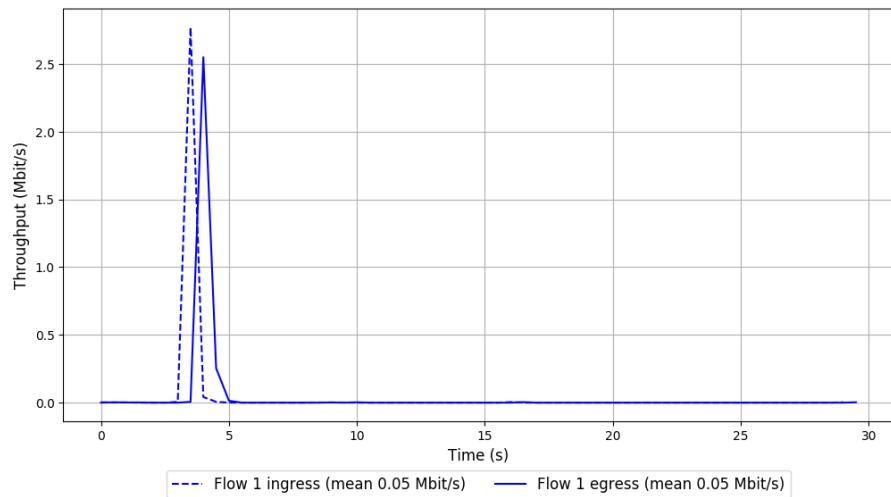


Run 2: Statistics of WebRTC media

```
Start at: 2019-01-25 12:27:53
End at: 2019-01-25 12:28:23
Local clock offset: -0.357 ms
Remote clock offset: -0.748 ms

# Below is generated by plot.py at 2019-01-25 16:26:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 56.882 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 56.882 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

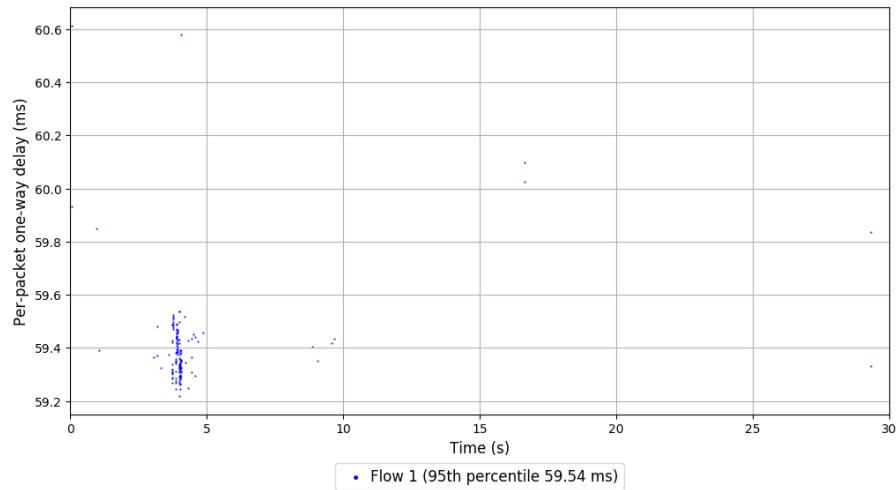
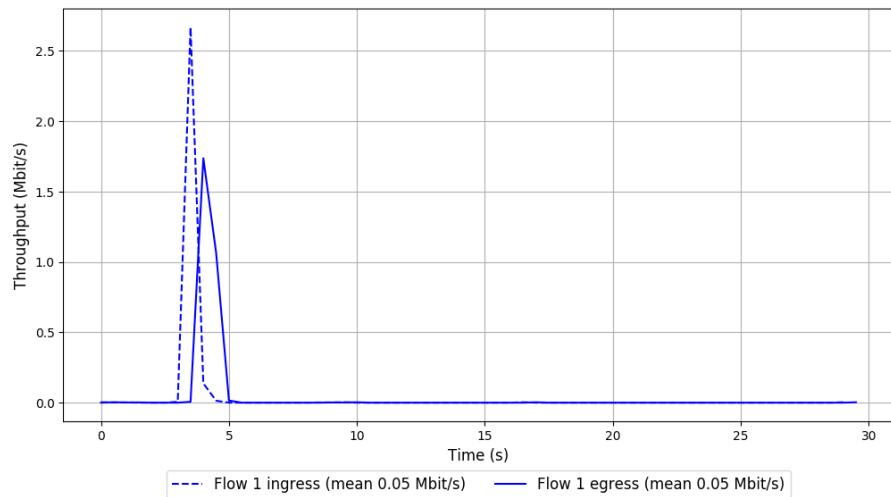


```
Run 3: Statistics of WebRTC media

Start at: 2019-01-25 12:59:02
End at: 2019-01-25 12:59:32
Local clock offset: 0.225 ms
Remote clock offset: -0.891 ms

# Below is generated by plot.py at 2019-01-25 16:26:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 59.538 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 59.538 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

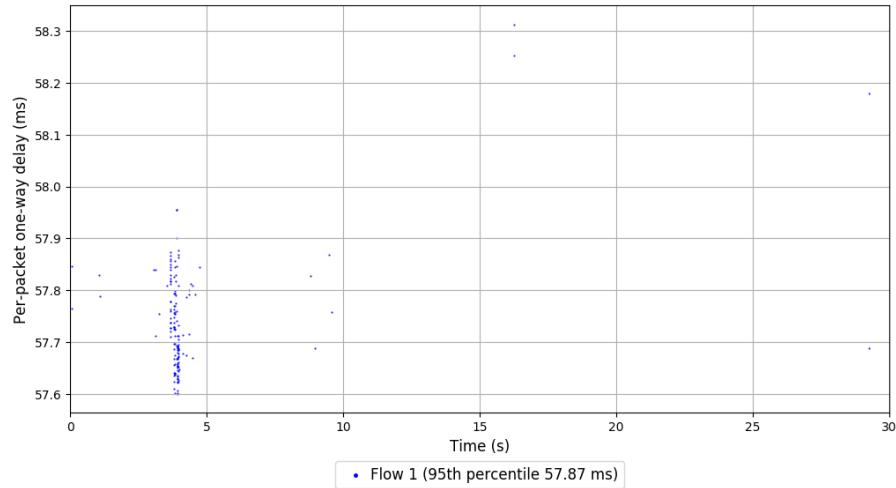
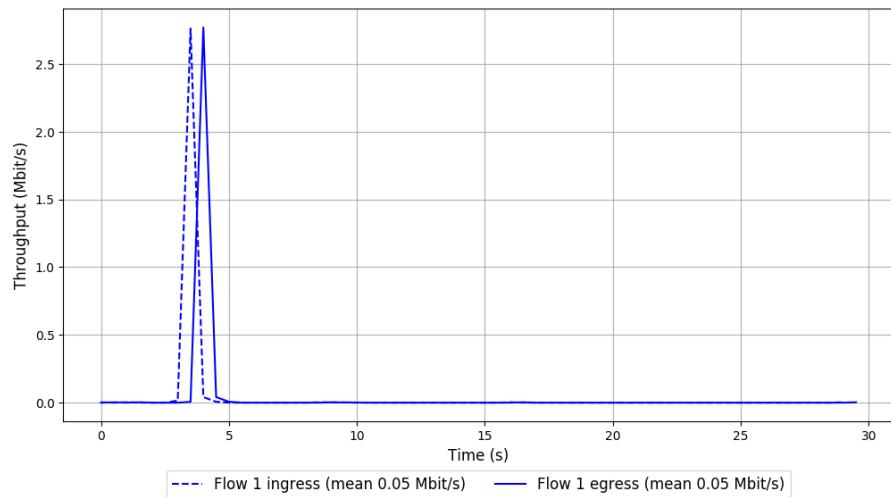


Run 4: Statistics of WebRTC media

```
Start at: 2019-01-25 13:31:15
End at: 2019-01-25 13:31:45
Local clock offset: -0.314 ms
Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2019-01-25 16:26:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 57.869 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 57.869 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-01-25 14:02:55
End at: 2019-01-25 14:03:25
Local clock offset: -0.287 ms
Remote clock offset: -0.316 ms

# Below is generated by plot.py at 2019-01-25 16:26:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 57.298 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 57.298 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

