

Pantheon Report

Generated at 2019-12-11 20:02:59 (UTC).
Data path: GCE Iowa on `ens4 (local)` → GCE Tokyo on `ens4 (remote)`.
Repeated the test of 24 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:

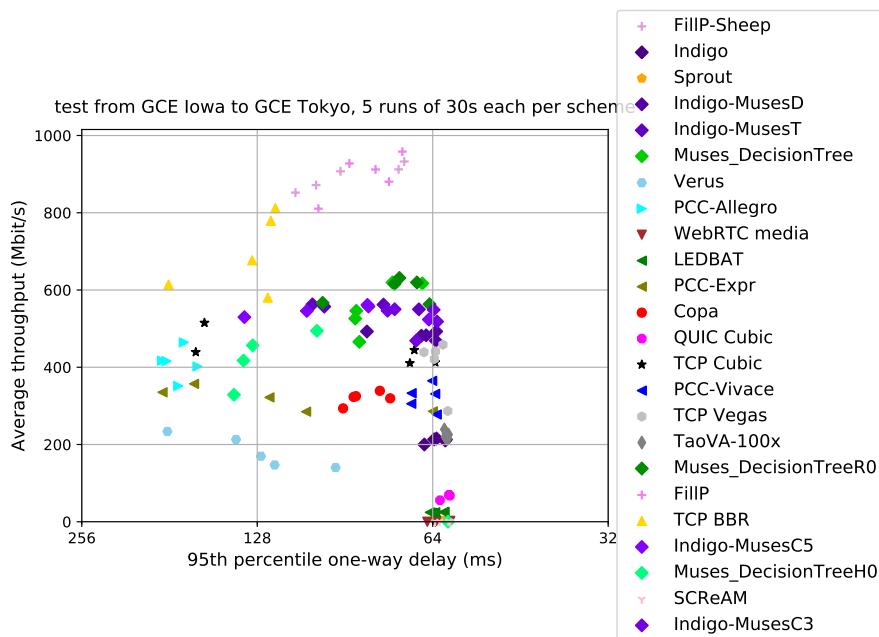
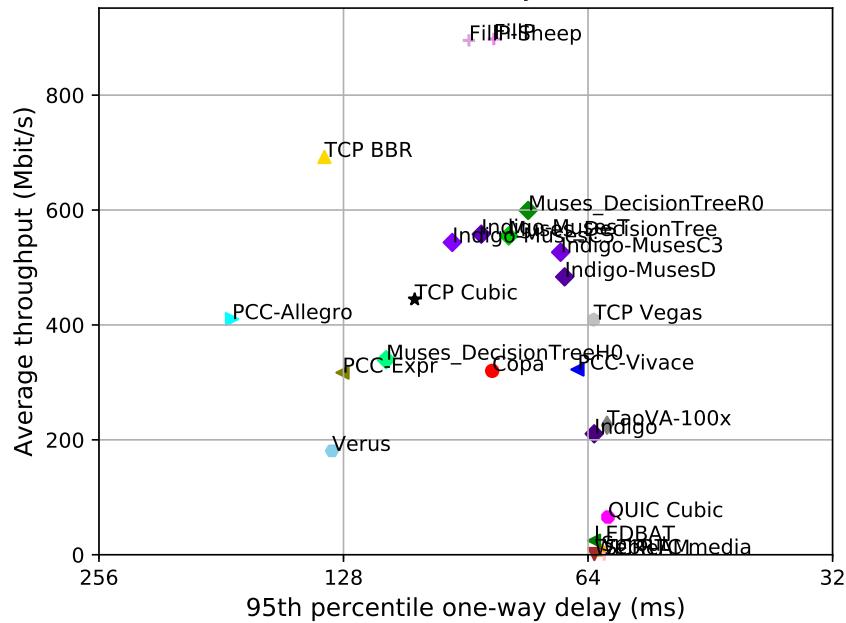
```
Linux 5.0.0-1025-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ de42328552b3776a75a932a94dfaf722537b0ec
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27af942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
```

third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from GCE Iowa to GCE Tokyo, 5 runs of 30s each per scheme
(mean of all runs by scheme)



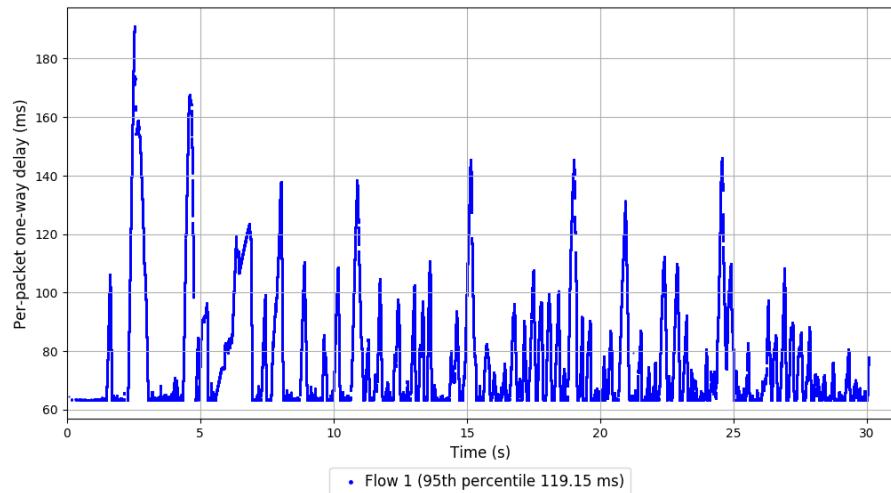
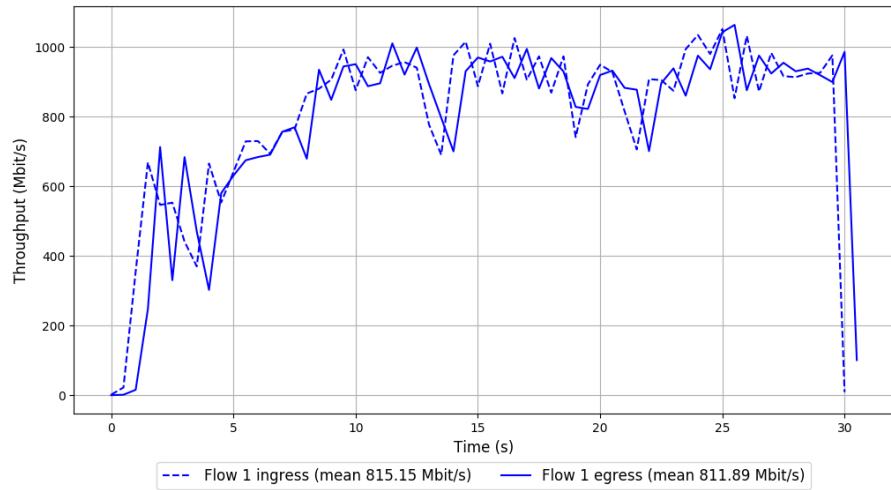
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	692.46	135.11	1.70
Copa	5	320.07	83.98	0.01
TCP Cubic	5	444.42	104.62	0.09
FillP	5	897.79	83.59	0.14
FillP-Sheep	5	895.27	89.70	0.14
Indigo	5	210.48	62.89	0.01
Indigo-MusesC3	5	526.50	69.17	0.01
Indigo-MusesC5	5	543.58	94.04	0.02
Indigo-MusesD	5	483.69	68.39	0.00
Indigo-MusesT	4	558.03	86.62	0.03
LEDBAT	5	24.55	62.93	0.01
Muses_DecisionTree	5	554.93	80.14	0.04
Muses_DecisionTreeH0	5	339.48	113.43	0.48
Muses_DecisionTreeR0	5	599.32	75.84	0.03
PCC-Allegro	5	410.14	175.53	1.98
PCC-Expr	5	317.01	128.37	3.12
QUIC Cubic	4	65.62	60.49	0.00
SCReAM	5	0.22	61.13	0.03
Sprout	5	6.91	61.67	0.00
TaoVA-100x	5	225.38	60.66	0.00
TCP Vegas	5	409.27	62.99	0.01
Verus	5	180.81	132.25	0.32
PCC-Vivace	5	322.41	65.95	0.00
WebRTC media	4	1.18	62.87	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-12-11 14:37:19
End at: 2019-12-11 14:37:49
Local clock offset: -0.075 ms
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2019-12-11 17:54:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 811.89 Mbit/s
95th percentile per-packet one-way delay: 119.152 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 811.89 Mbit/s
95th percentile per-packet one-way delay: 119.152 ms
Loss rate: 0.41%
```

Run 1: Report of TCP BBR — Data Link

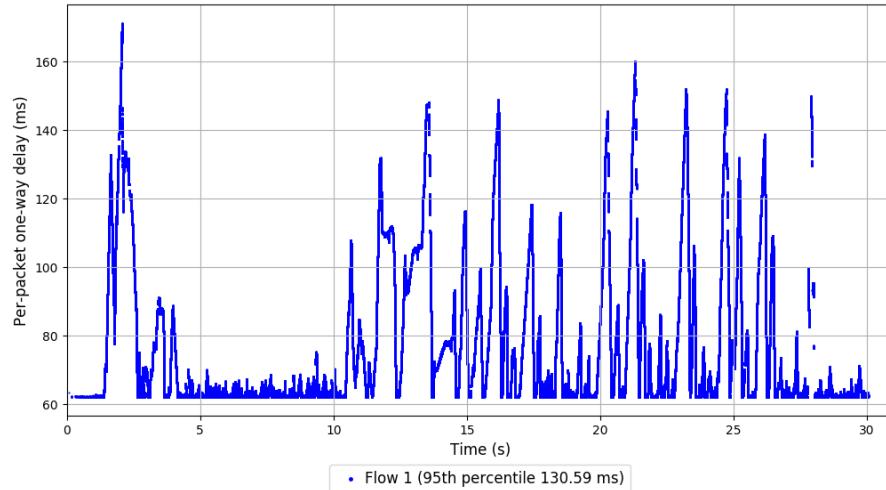
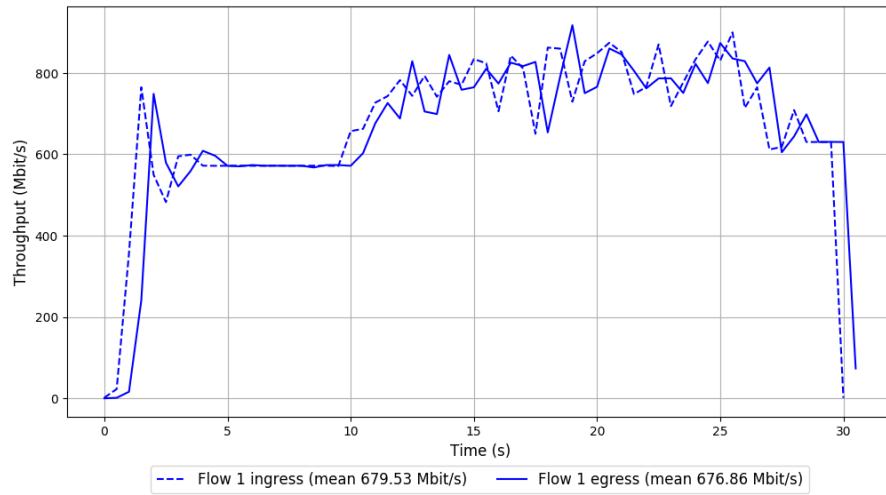


Run 2: Statistics of TCP BBR

```
Start at: 2019-12-11 15:12:20
End at: 2019-12-11 15:12:50
Local clock offset: 0.031 ms
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2019-12-11 17:54:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 676.86 Mbit/s
95th percentile per-packet one-way delay: 130.590 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 676.86 Mbit/s
95th percentile per-packet one-way delay: 130.590 ms
Loss rate: 0.41%
```

Run 2: Report of TCP BBR — Data Link

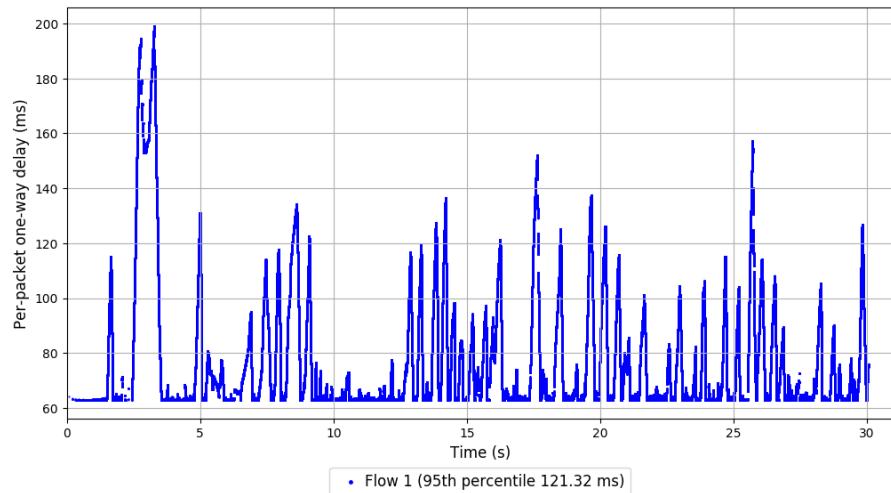
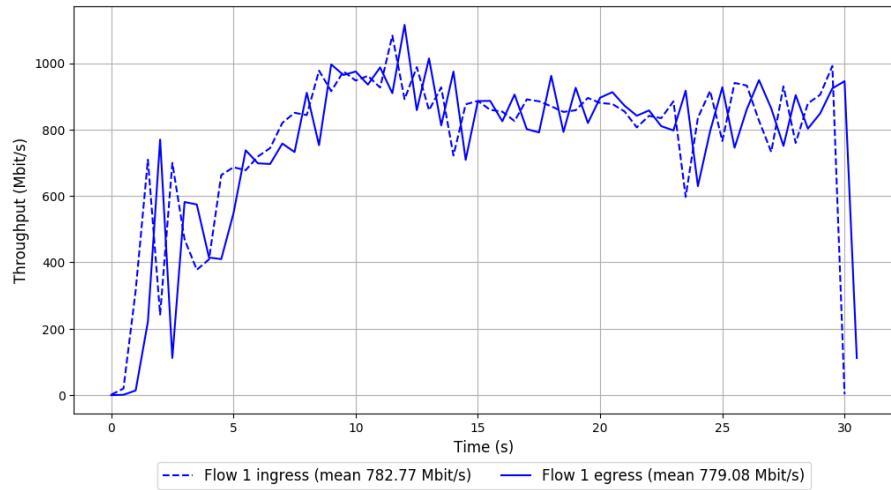


Run 3: Statistics of TCP BBR

```
Start at: 2019-12-11 15:47:38
End at: 2019-12-11 15:48:08
Local clock offset: -0.131 ms
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2019-12-11 17:54:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 779.08 Mbit/s
95th percentile per-packet one-way delay: 121.320 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 779.08 Mbit/s
95th percentile per-packet one-way delay: 121.320 ms
Loss rate: 0.48%
```

Run 3: Report of TCP BBR — Data Link

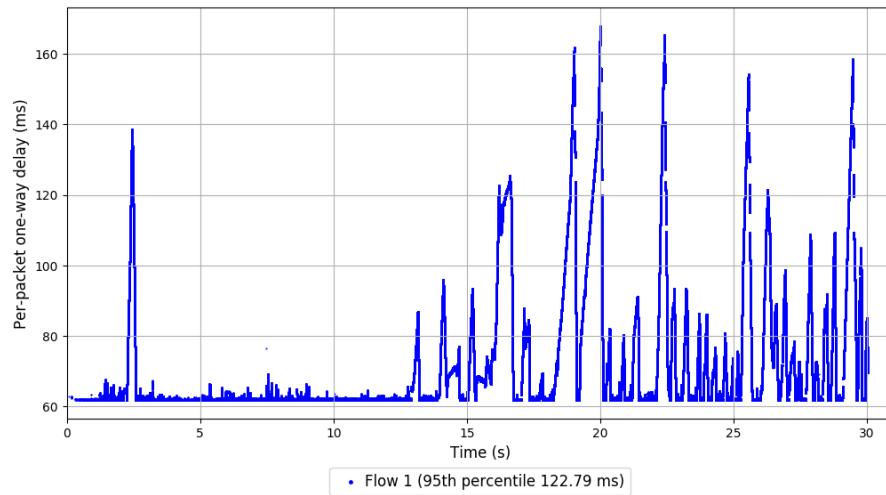
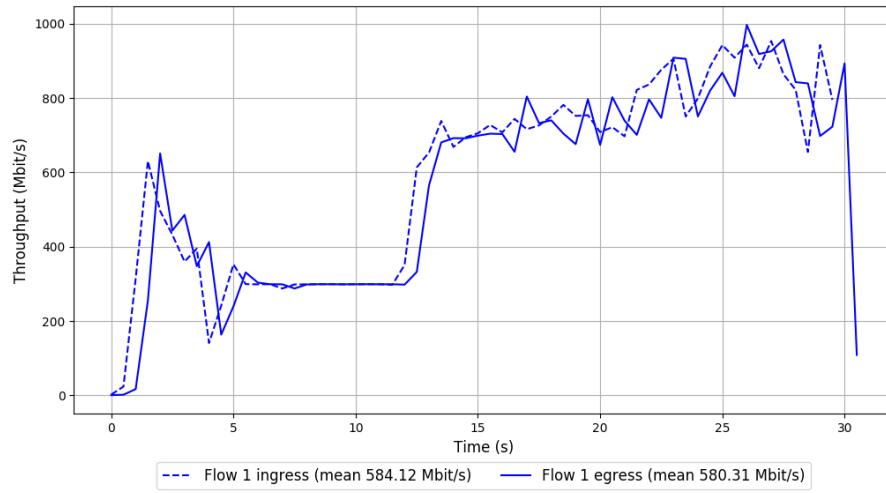


Run 4: Statistics of TCP BBR

```
Start at: 2019-12-11 16:22:53
End at: 2019-12-11 16:23:23
Local clock offset: -0.045 ms
Remote clock offset: -0.352 ms

# Below is generated by plot.py at 2019-12-11 17:54:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 580.31 Mbit/s
95th percentile per-packet one-way delay: 122.791 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 580.31 Mbit/s
95th percentile per-packet one-way delay: 122.791 ms
Loss rate: 0.66%
```

Run 4: Report of TCP BBR — Data Link

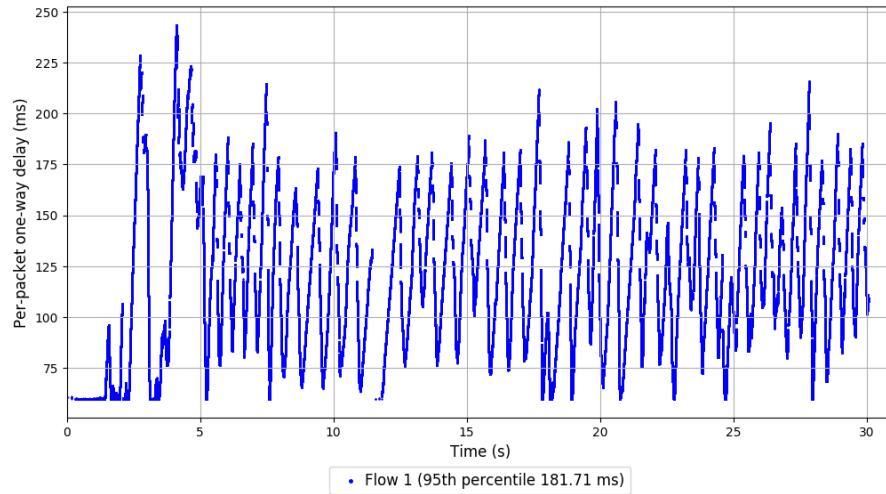
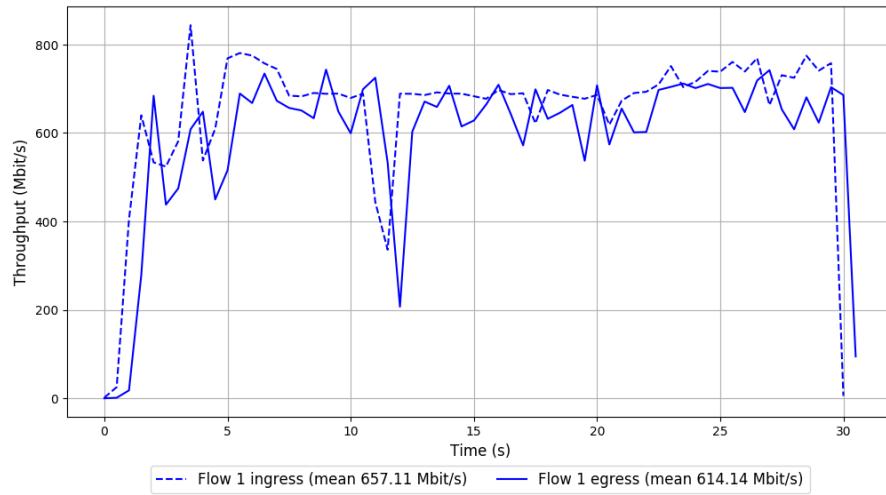


Run 5: Statistics of TCP BBR

```
Start at: 2019-12-11 16:58:11
End at: 2019-12-11 16:58:41
Local clock offset: -0.114 ms
Remote clock offset: -0.163 ms

# Below is generated by plot.py at 2019-12-11 17:54:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 614.14 Mbit/s
95th percentile per-packet one-way delay: 181.710 ms
Loss rate: 6.54%
-- Flow 1:
Average throughput: 614.14 Mbit/s
95th percentile per-packet one-way delay: 181.710 ms
Loss rate: 6.54%
```

Run 5: Report of TCP BBR — Data Link

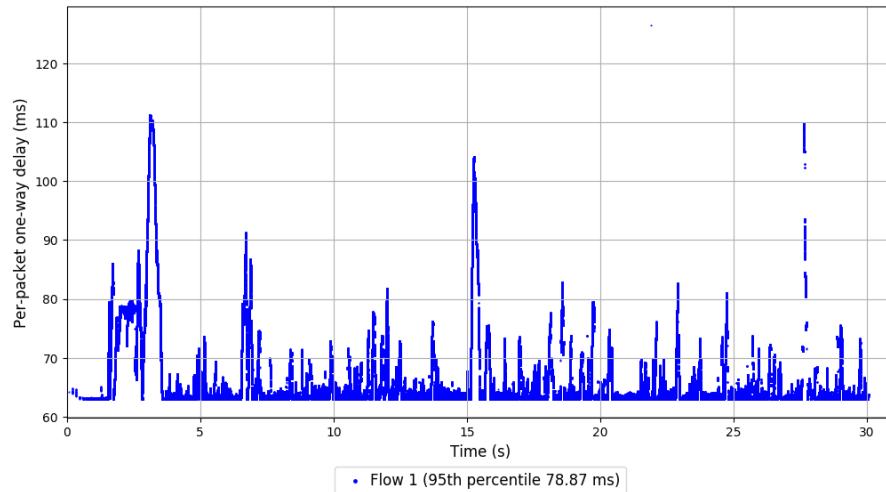
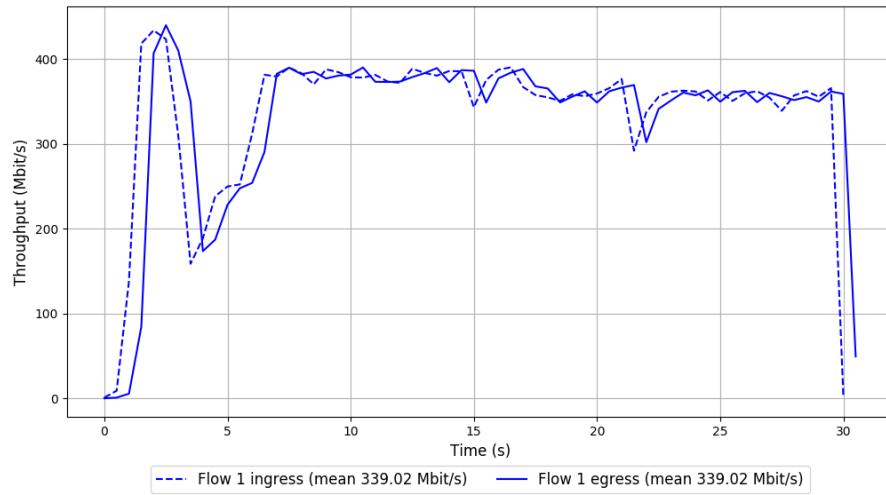


Run 1: Statistics of Copa

```
Start at: 2019-12-11 14:54:27
End at: 2019-12-11 14:54:57
Local clock offset: -0.017 ms
Remote clock offset: -0.106 ms

# Below is generated by plot.py at 2019-12-11 17:54:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 339.02 Mbit/s
95th percentile per-packet one-way delay: 78.870 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 339.02 Mbit/s
95th percentile per-packet one-way delay: 78.870 ms
Loss rate: 0.01%
```

Run 1: Report of Copa — Data Link

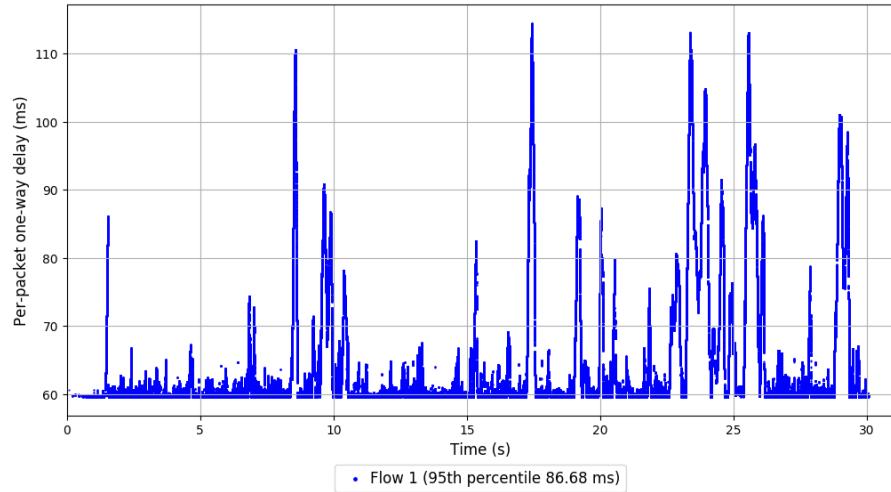
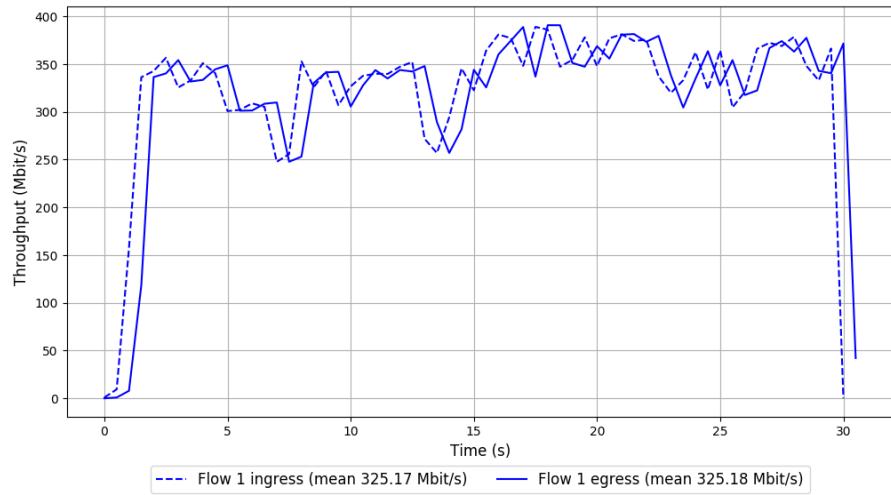


Run 2: Statistics of Copa

```
Start at: 2019-12-11 15:29:35
End at: 2019-12-11 15:30:05
Local clock offset: -0.068 ms
Remote clock offset: -0.119 ms

# Below is generated by plot.py at 2019-12-11 17:54:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 325.18 Mbit/s
95th percentile per-packet one-way delay: 86.682 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 325.18 Mbit/s
95th percentile per-packet one-way delay: 86.682 ms
Loss rate: 0.00%
```

Run 2: Report of Copa — Data Link

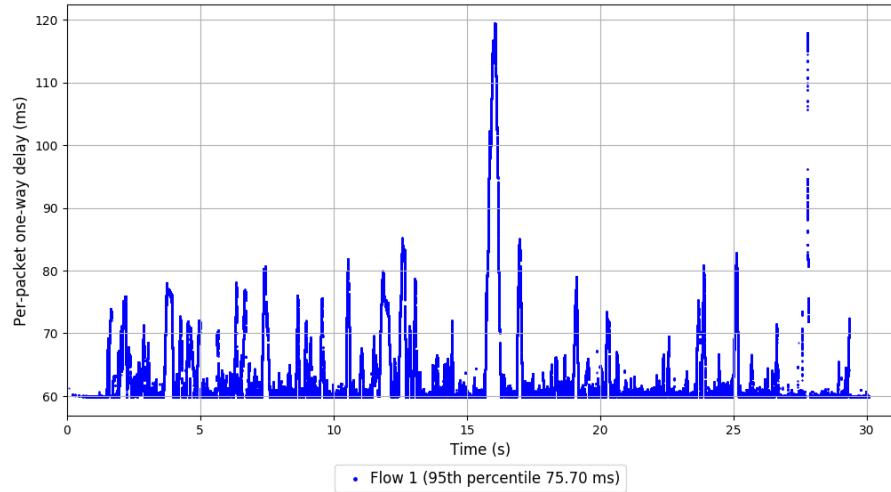
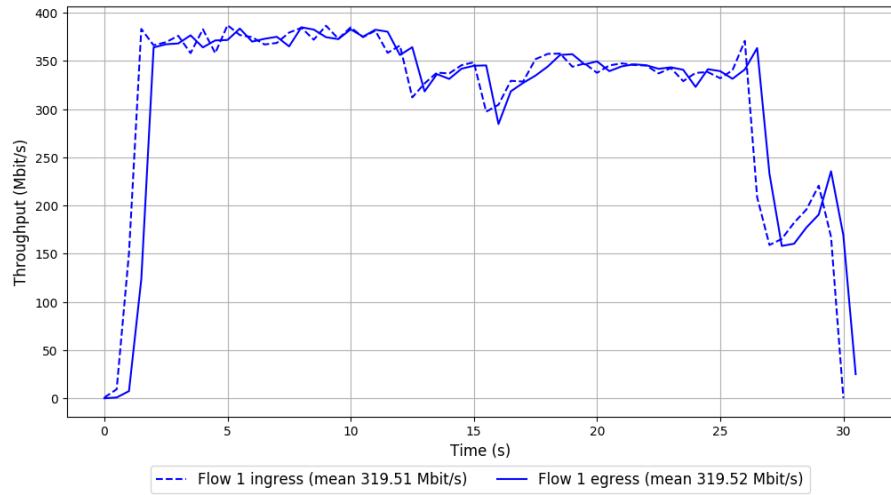


Run 3: Statistics of Copa

```
Start at: 2019-12-11 16:05:01
End at: 2019-12-11 16:05:31
Local clock offset: -0.056 ms
Remote clock offset: 0.041 ms

# Below is generated by plot.py at 2019-12-11 17:54:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 319.52 Mbit/s
95th percentile per-packet one-way delay: 75.705 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 319.52 Mbit/s
95th percentile per-packet one-way delay: 75.705 ms
Loss rate: 0.00%
```

Run 3: Report of Copa — Data Link

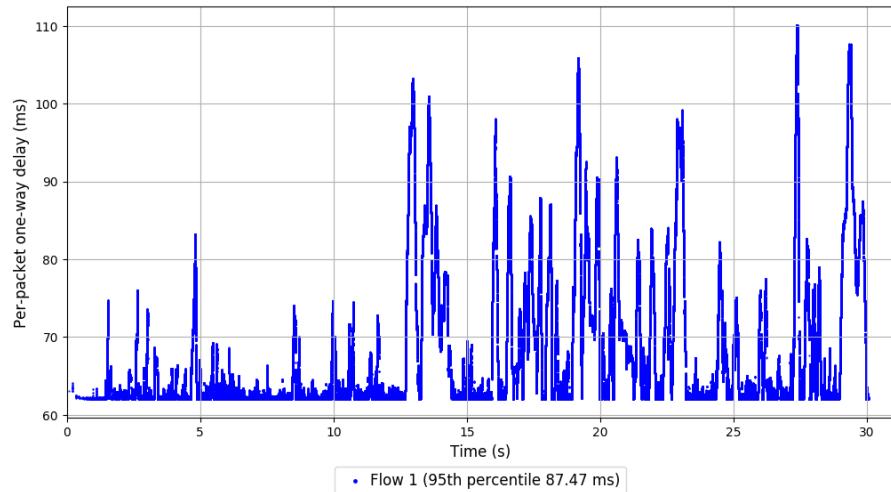
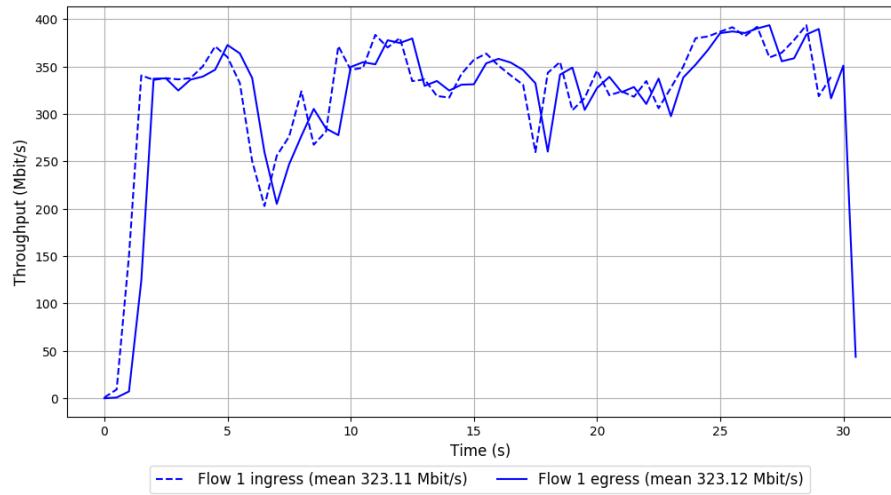


Run 4: Statistics of Copa

```
Start at: 2019-12-11 16:40:20
End at: 2019-12-11 16:40:50
Local clock offset: -0.125 ms
Remote clock offset: -0.119 ms

# Below is generated by plot.py at 2019-12-11 18:05:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 323.12 Mbit/s
95th percentile per-packet one-way delay: 87.474 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 323.12 Mbit/s
95th percentile per-packet one-way delay: 87.474 ms
Loss rate: 0.01%
```

Run 4: Report of Copa — Data Link

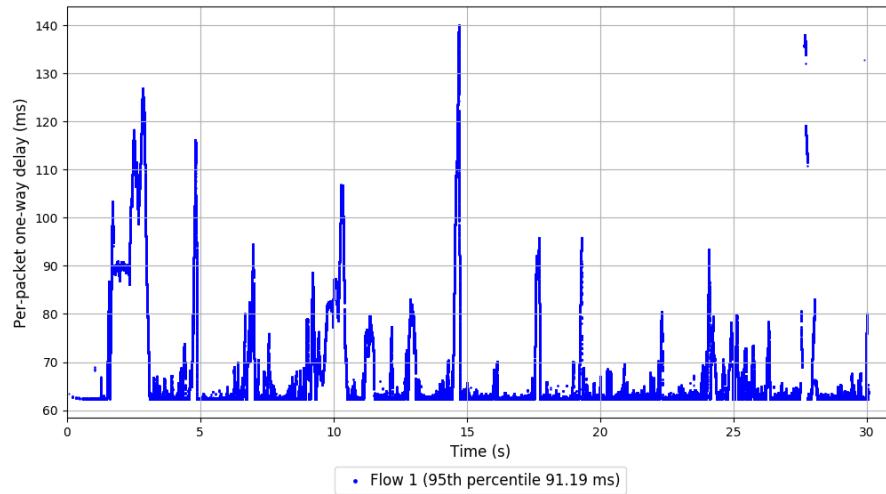
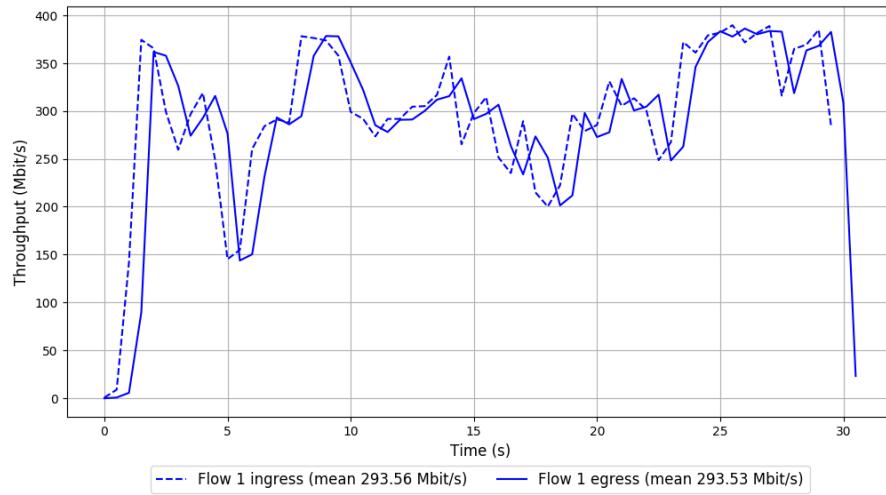


Run 5: Statistics of Copa

```
Start at: 2019-12-11 17:15:39
End at: 2019-12-11 17:16:09
Local clock offset: -0.086 ms
Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2019-12-11 18:05:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 293.53 Mbit/s
95th percentile per-packet one-way delay: 91.192 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 293.53 Mbit/s
95th percentile per-packet one-way delay: 91.192 ms
Loss rate: 0.02%
```

Run 5: Report of Copa — Data Link

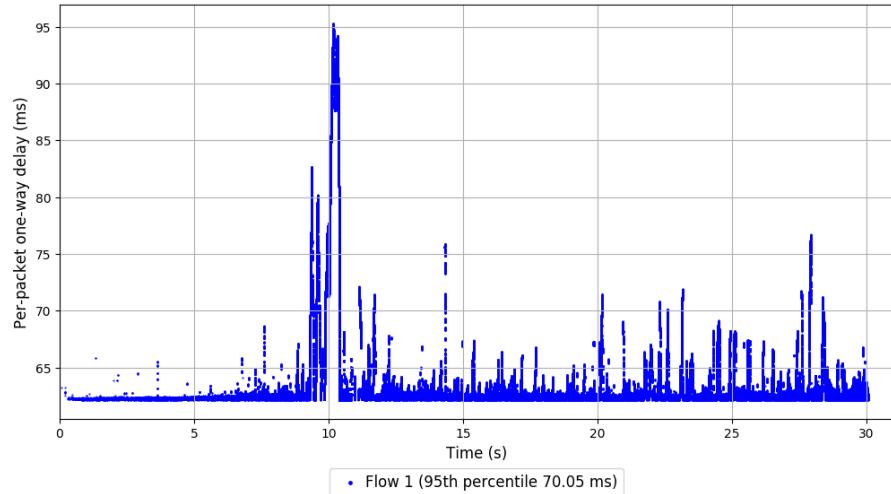
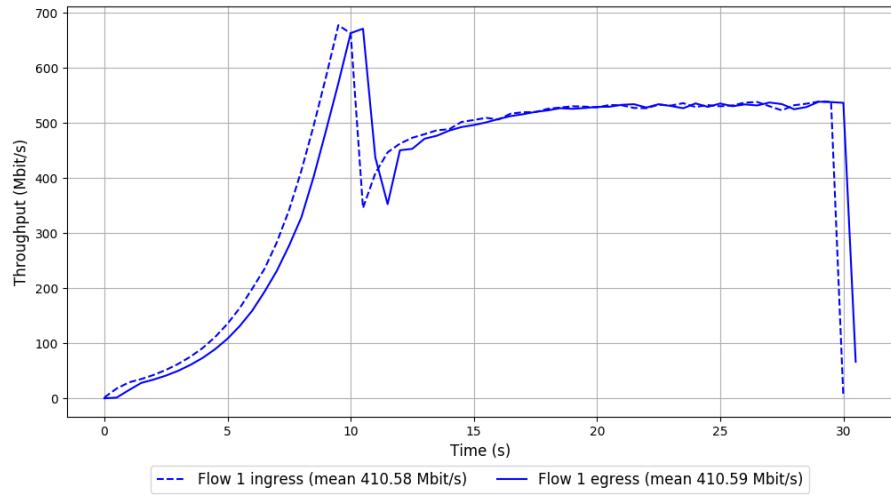


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-12-11 14:47:15
End at: 2019-12-11 14:47:45
Local clock offset: -0.035 ms
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2019-12-11 18:05:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 410.59 Mbit/s
95th percentile per-packet one-way delay: 70.047 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 410.59 Mbit/s
95th percentile per-packet one-way delay: 70.047 ms
Loss rate: 0.01%
```

Run 1: Report of TCP Cubic — Data Link

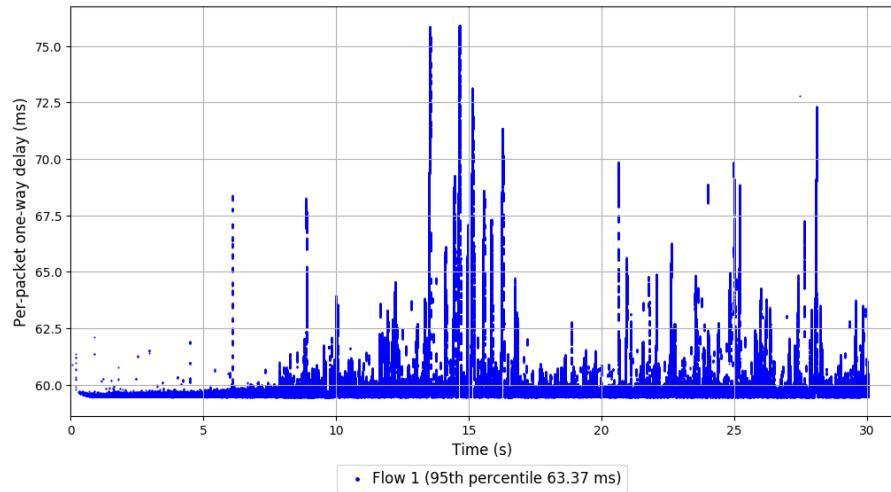
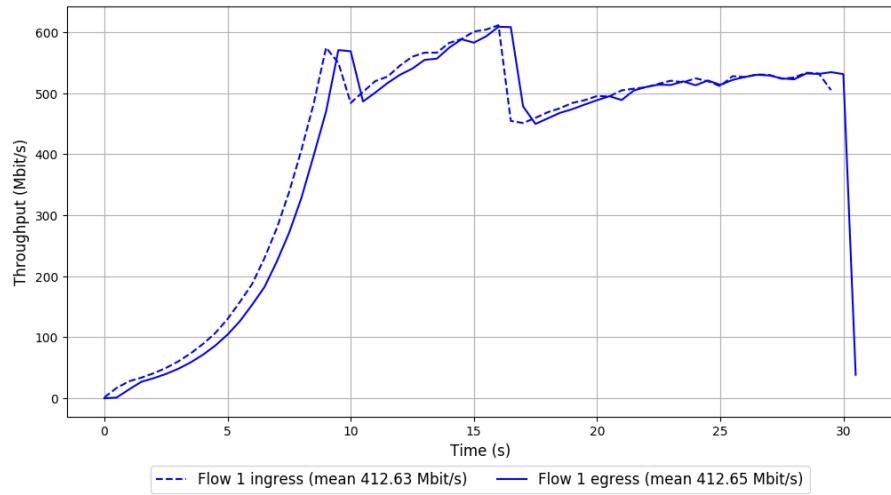


Run 2: Statistics of TCP Cubic

```
Start at: 2019-12-11 15:22:19
End at: 2019-12-11 15:22:49
Local clock offset: -0.066 ms
Remote clock offset: -0.186 ms

# Below is generated by plot.py at 2019-12-11 18:05:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 412.65 Mbit/s
95th percentile per-packet one-way delay: 63.368 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 412.65 Mbit/s
95th percentile per-packet one-way delay: 63.368 ms
Loss rate: 0.00%
```

Run 2: Report of TCP Cubic — Data Link

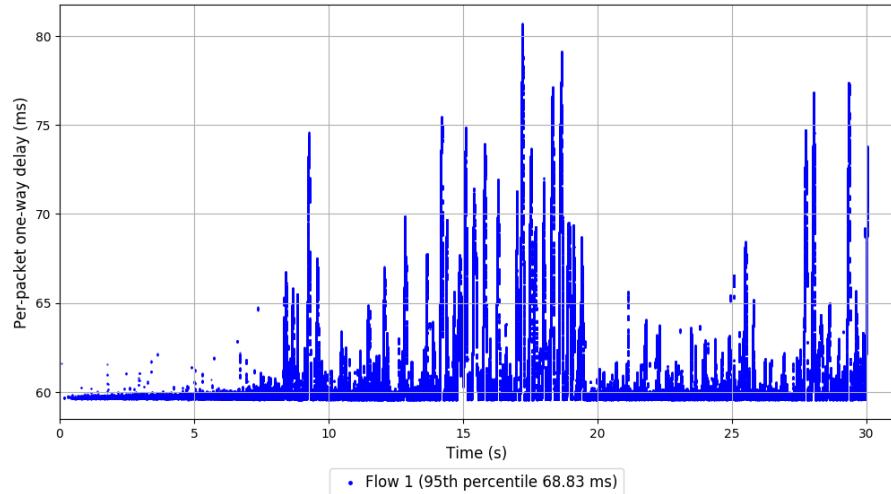
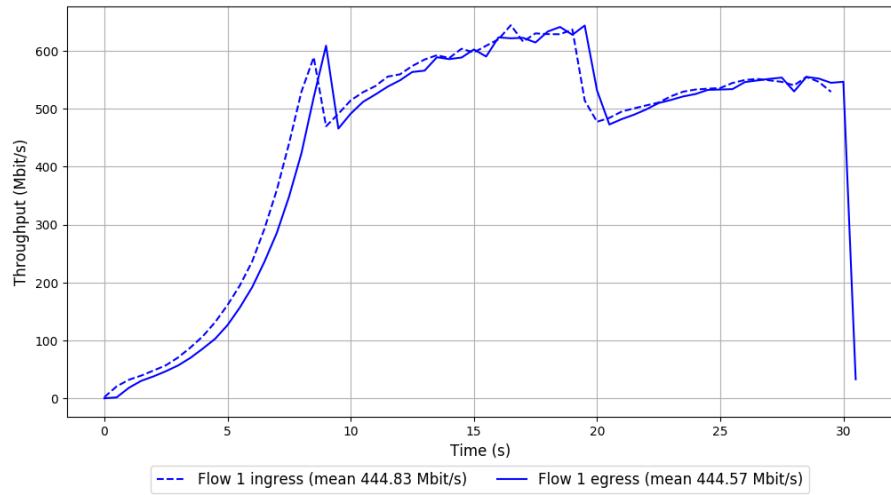


Run 3: Statistics of TCP Cubic

```
Start at: 2019-12-11 15:57:41
End at: 2019-12-11 15:58:11
Local clock offset: -0.032 ms
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2019-12-11 18:05:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 444.57 Mbit/s
95th percentile per-packet one-way delay: 68.825 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 444.57 Mbit/s
95th percentile per-packet one-way delay: 68.825 ms
Loss rate: 0.06%
```

Run 3: Report of TCP Cubic — Data Link

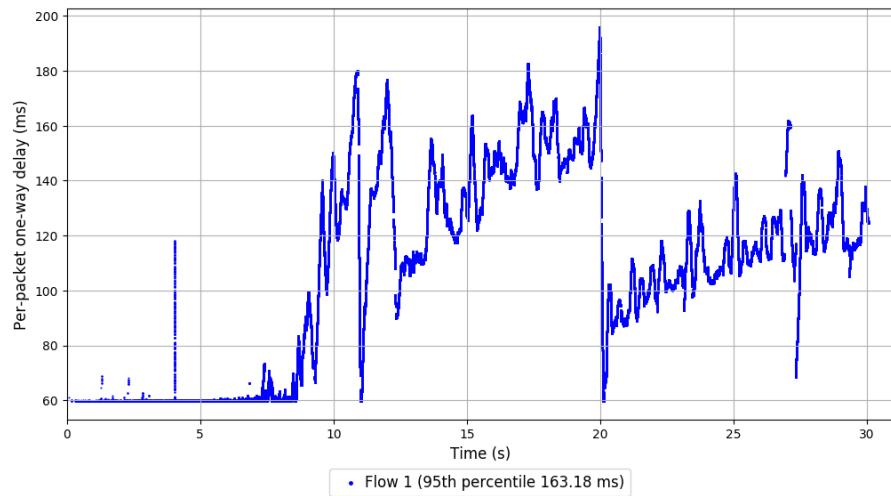
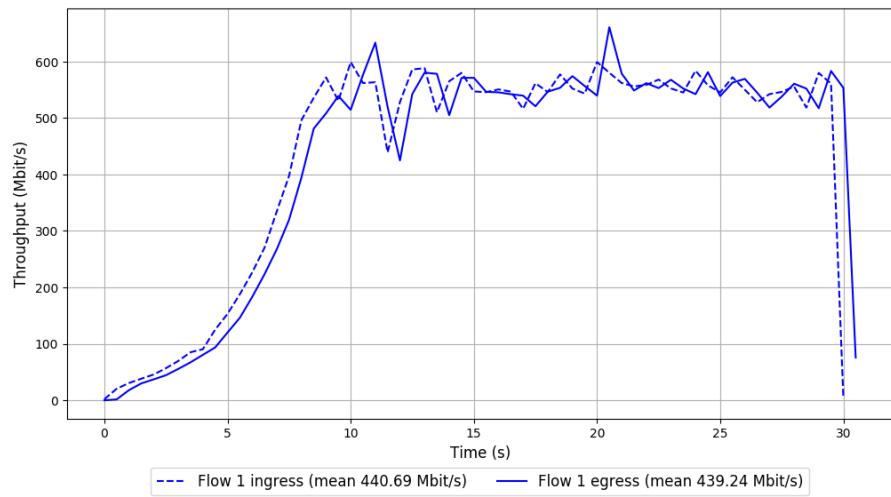


Run 4: Statistics of TCP Cubic

```
Start at: 2019-12-11 16:32:58
End at: 2019-12-11 16:33:28
Local clock offset: -0.087 ms
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2019-12-11 18:05:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 439.24 Mbit/s
95th percentile per-packet one-way delay: 163.181 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 439.24 Mbit/s
95th percentile per-packet one-way delay: 163.181 ms
Loss rate: 0.33%
```

Run 4: Report of TCP Cubic — Data Link

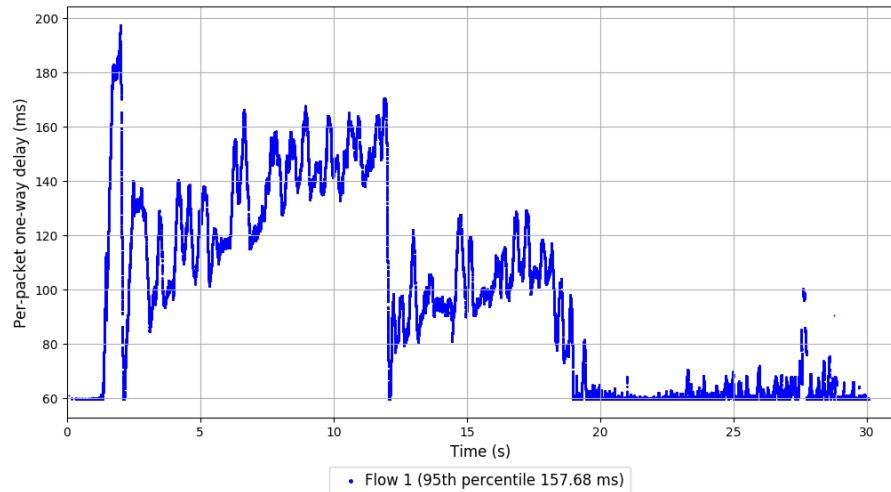
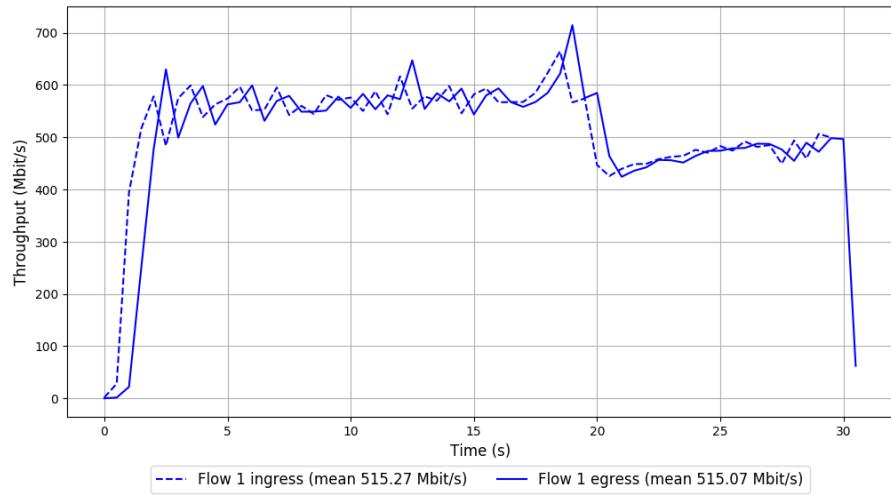


Run 5: Statistics of TCP Cubic

```
Start at: 2019-12-11 17:08:18
End at: 2019-12-11 17:08:48
Local clock offset: -0.098 ms
Remote clock offset: 0.032 ms

# Below is generated by plot.py at 2019-12-11 18:06:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 515.07 Mbit/s
95th percentile per-packet one-way delay: 157.676 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 515.07 Mbit/s
95th percentile per-packet one-way delay: 157.676 ms
Loss rate: 0.04%
```

Run 5: Report of TCP Cubic — Data Link

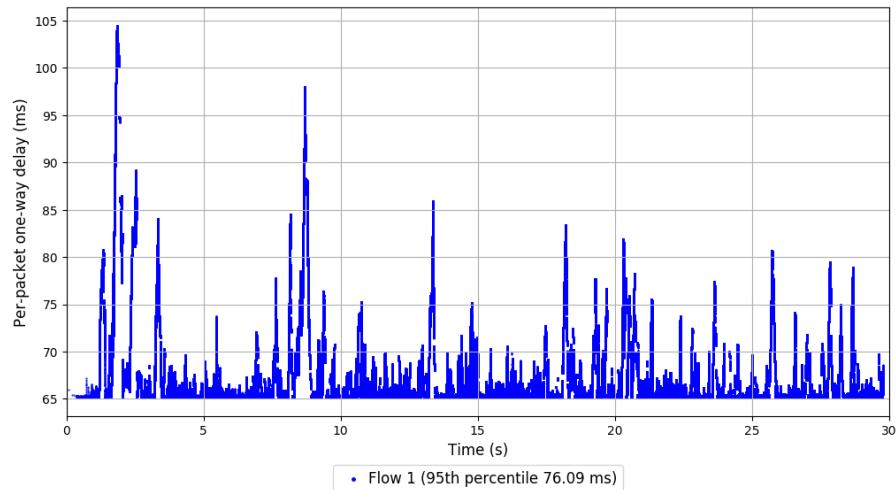
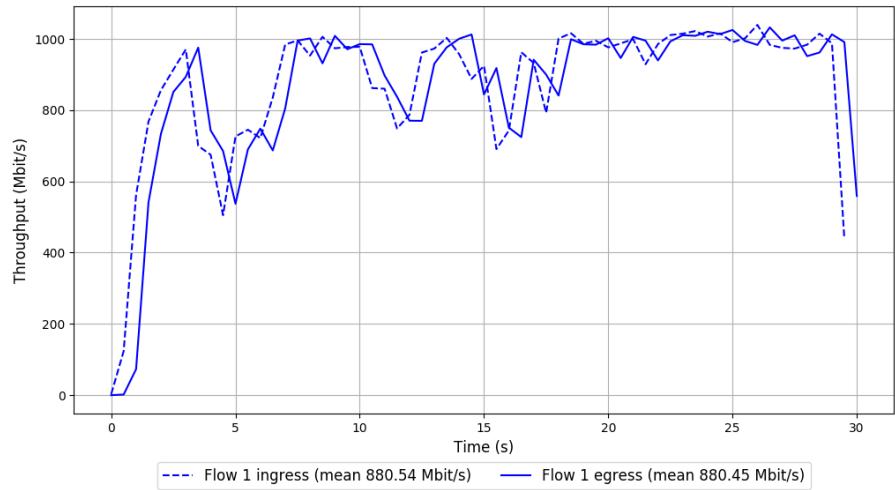


```
Run 1: Statistics of FillP
```

```
Start at: 2019-12-11 14:35:34
End at: 2019-12-11 14:36:04
Local clock offset: -0.067 ms
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2019-12-11 18:20:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 880.45 Mbit/s
95th percentile per-packet one-way delay: 76.088 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 880.45 Mbit/s
95th percentile per-packet one-way delay: 76.088 ms
Loss rate: 0.03%
```

Run 1: Report of FillP — Data Link

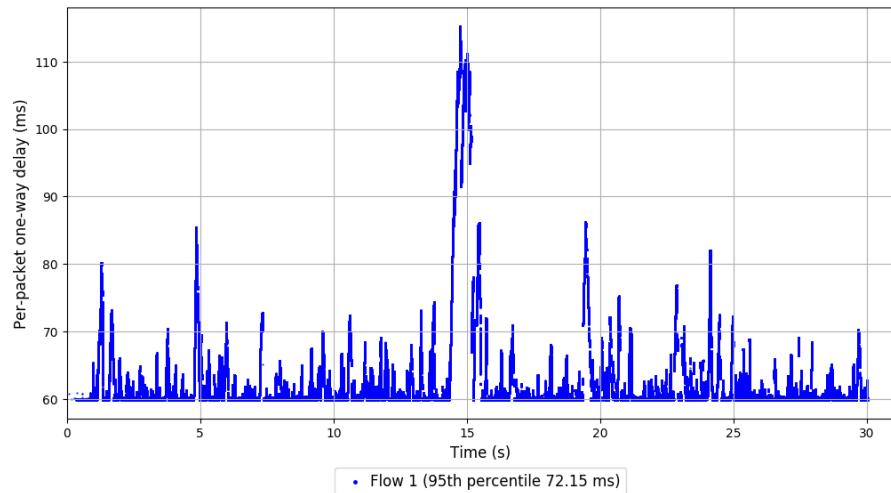
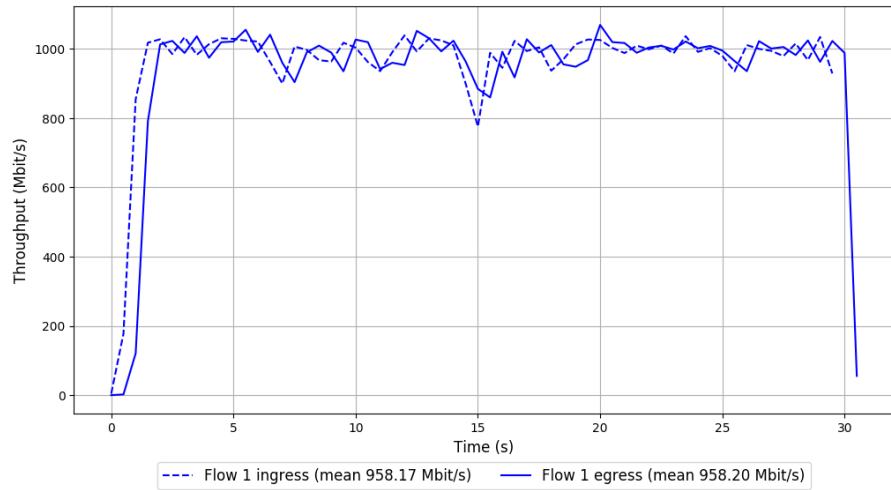


```
Run 2: Statistics of FillP
```

```
Start at: 2019-12-11 15:10:34
End at: 2019-12-11 15:11:04
Local clock offset: 0.029 ms
Remote clock offset: 0.036 ms

# Below is generated by plot.py at 2019-12-11 18:30:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 958.20 Mbit/s
95th percentile per-packet one-way delay: 72.147 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 958.20 Mbit/s
95th percentile per-packet one-way delay: 72.147 ms
Loss rate: 0.00%
```

Run 2: Report of FillP — Data Link

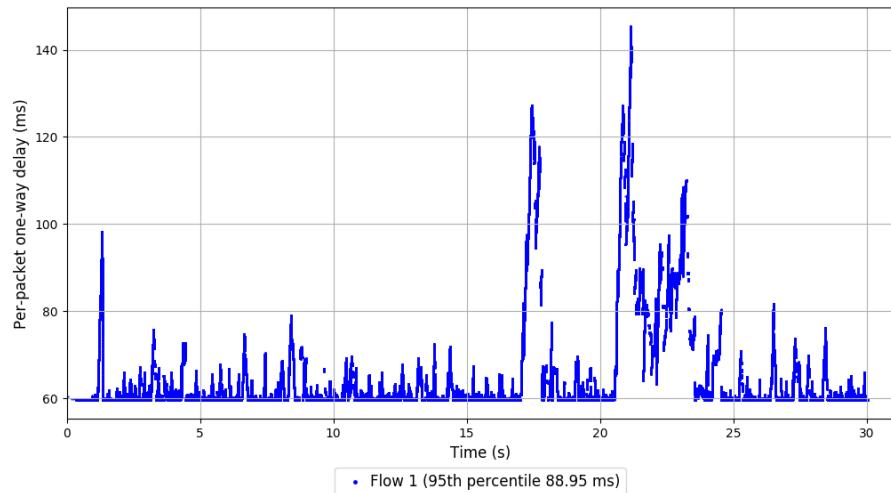
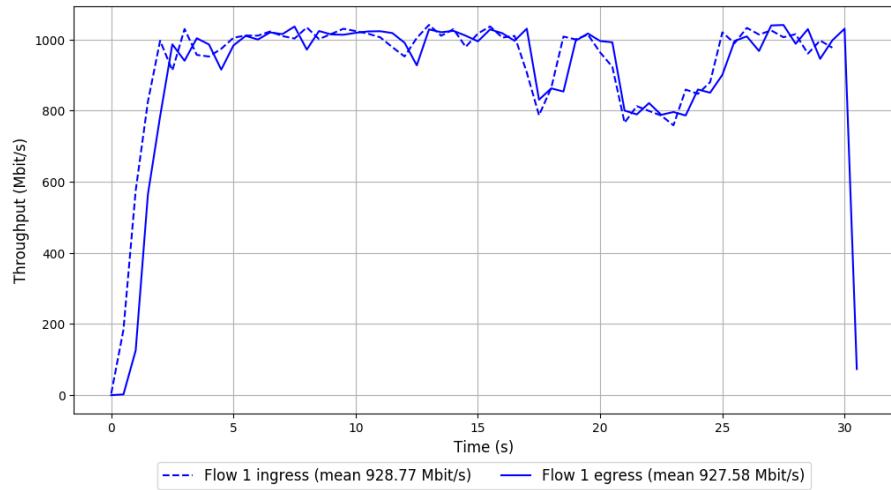


```
Run 3: Statistics of FillP
```

```
Start at: 2019-12-11 15:45:52
End at: 2019-12-11 15:46:22
Local clock offset: -0.086 ms
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2019-12-11 18:30:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 927.58 Mbit/s
95th percentile per-packet one-way delay: 88.952 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 927.58 Mbit/s
95th percentile per-packet one-way delay: 88.952 ms
Loss rate: 0.13%
```

Run 3: Report of FillP — Data Link

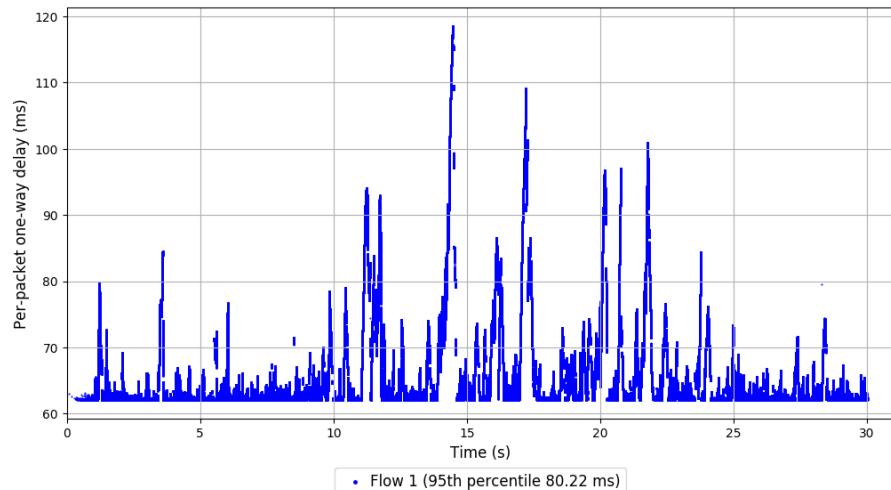
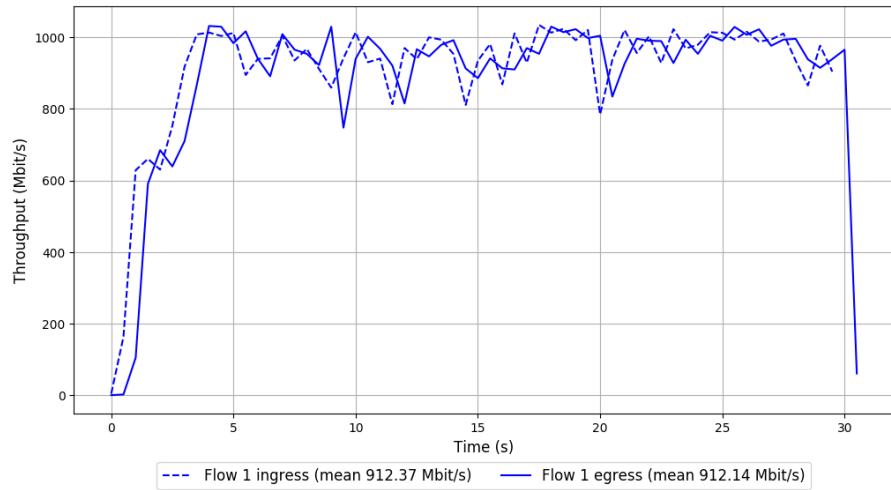


```
Run 4: Statistics of FillP
```

```
Start at: 2019-12-11 16:21:07
End at: 2019-12-11 16:21:37
Local clock offset: -0.007 ms
Remote clock offset: 0.025 ms

# Below is generated by plot.py at 2019-12-11 18:30:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 912.14 Mbit/s
95th percentile per-packet one-way delay: 80.223 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 912.14 Mbit/s
95th percentile per-packet one-way delay: 80.223 ms
Loss rate: 0.03%
```

Run 4: Report of FillP — Data Link

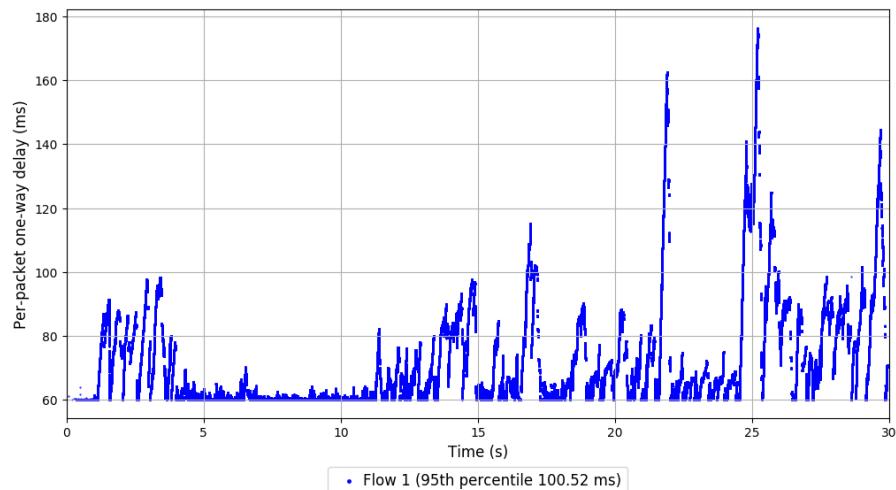
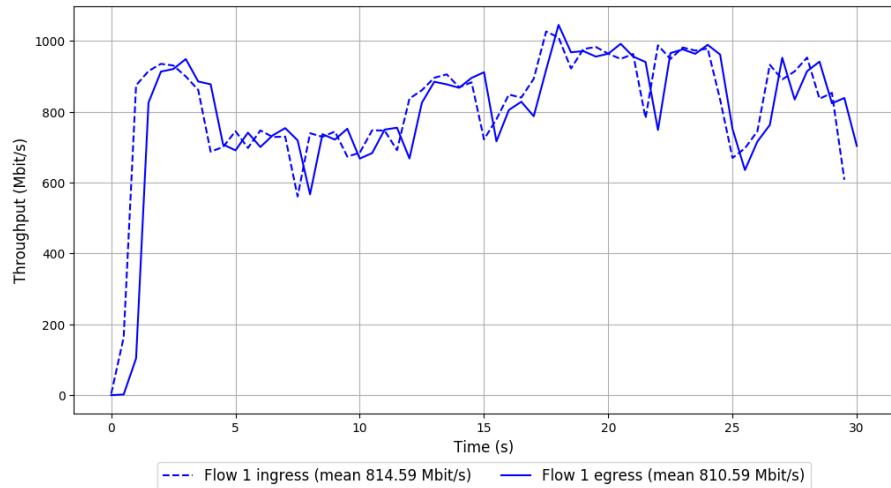


Run 5: Statistics of FillP

```
Start at: 2019-12-11 16:56:31
End at: 2019-12-11 16:57:01
Local clock offset: -0.176 ms
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2019-12-11 18:30:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 810.59 Mbit/s
95th percentile per-packet one-way delay: 100.521 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 810.59 Mbit/s
95th percentile per-packet one-way delay: 100.521 ms
Loss rate: 0.49%
```

Run 5: Report of FillP — Data Link

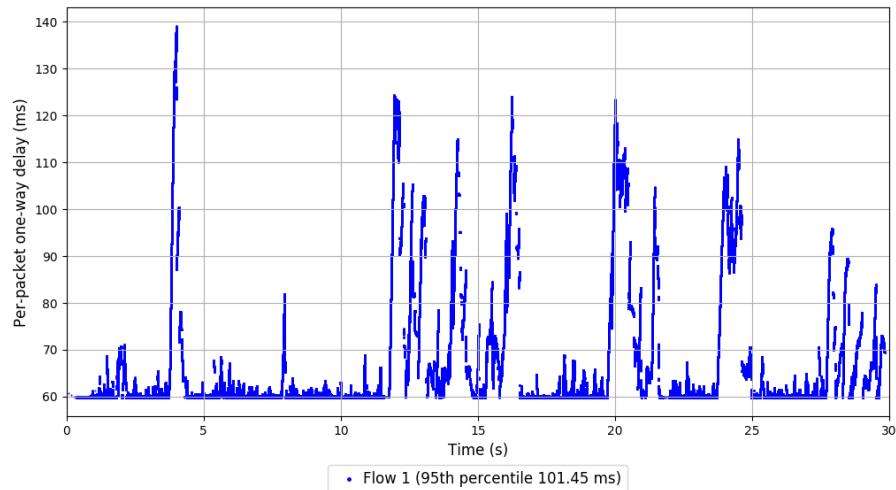
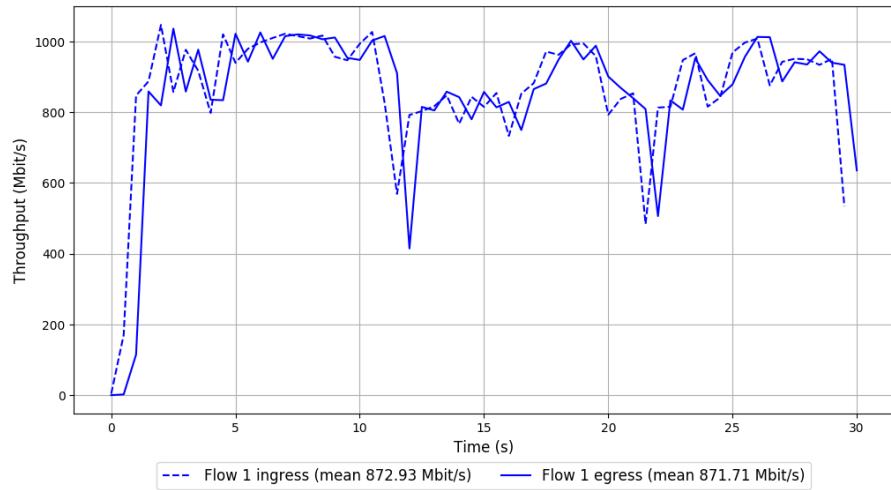


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-12-11 14:25:45
End at: 2019-12-11 14:26:15
Local clock offset: 0.018 ms
Remote clock offset: -0.129 ms

# Below is generated by plot.py at 2019-12-11 18:30:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 871.71 Mbit/s
95th percentile per-packet one-way delay: 101.450 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 871.71 Mbit/s
95th percentile per-packet one-way delay: 101.450 ms
Loss rate: 0.12%
```

Run 1: Report of FillP-Sheep — Data Link

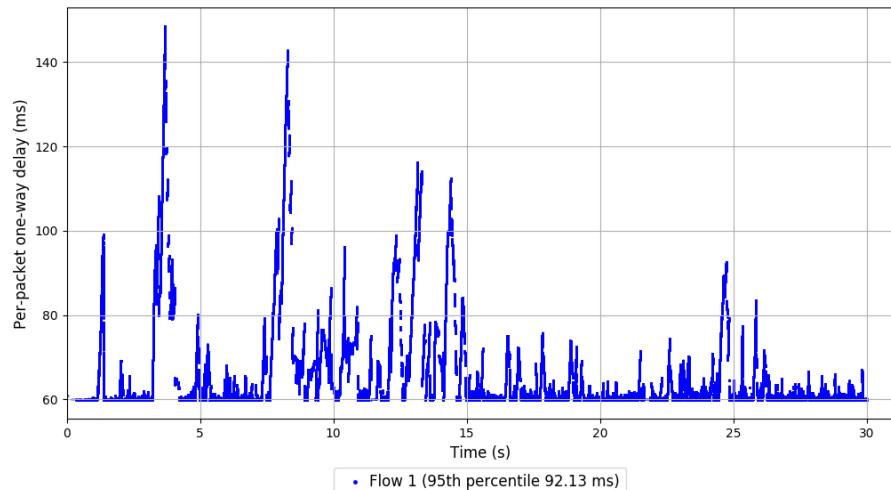
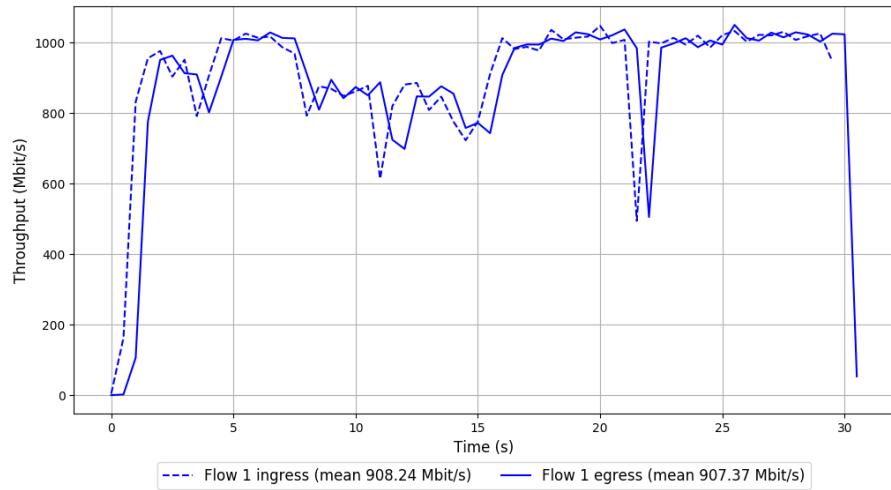


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-12-11 15:00:21
End at: 2019-12-11 15:00:51
Local clock offset: -0.013 ms
Remote clock offset: 0.067 ms

# Below is generated by plot.py at 2019-12-11 18:32:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 907.37 Mbit/s
95th percentile per-packet one-way delay: 92.127 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 907.37 Mbit/s
95th percentile per-packet one-way delay: 92.127 ms
Loss rate: 0.10%
```

Run 2: Report of FillP-Sheep — Data Link

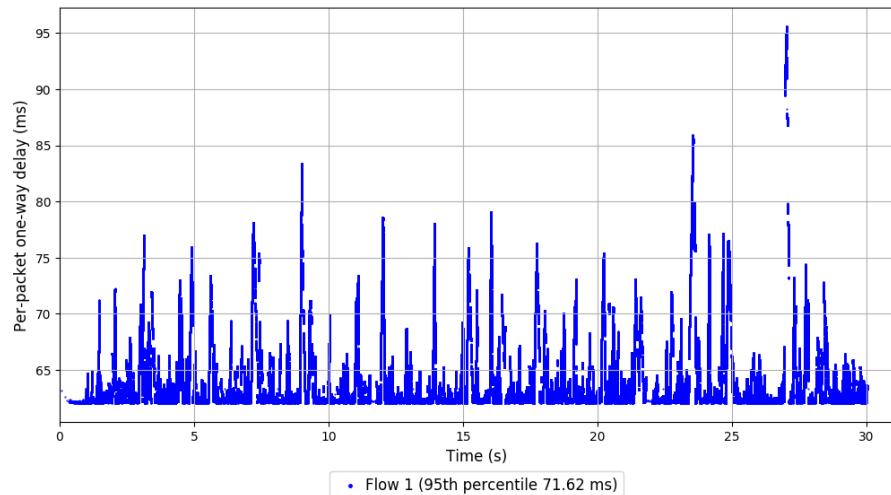
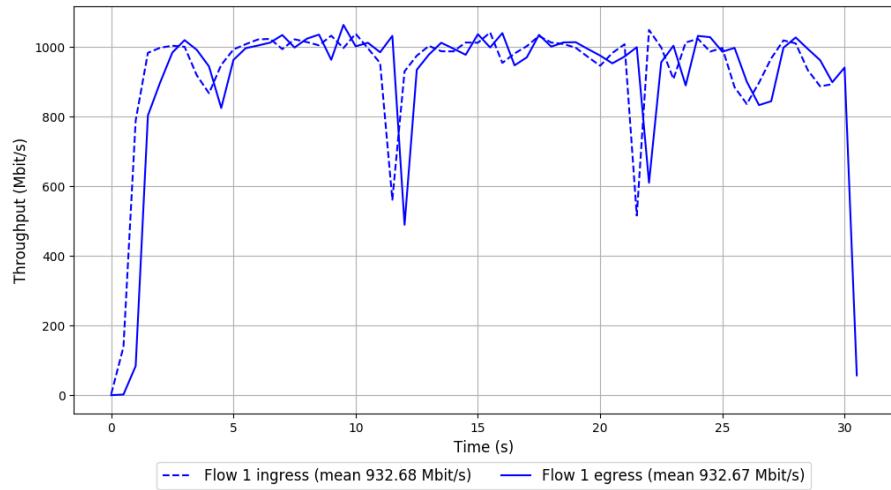


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-12-11 15:35:41
End at: 2019-12-11 15:36:11
Local clock offset: -0.11 ms
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2019-12-11 18:34:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 932.67 Mbit/s
95th percentile per-packet one-way delay: 71.624 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 932.67 Mbit/s
95th percentile per-packet one-way delay: 71.624 ms
Loss rate: 0.01%
```

Run 3: Report of FillP-Sheep — Data Link

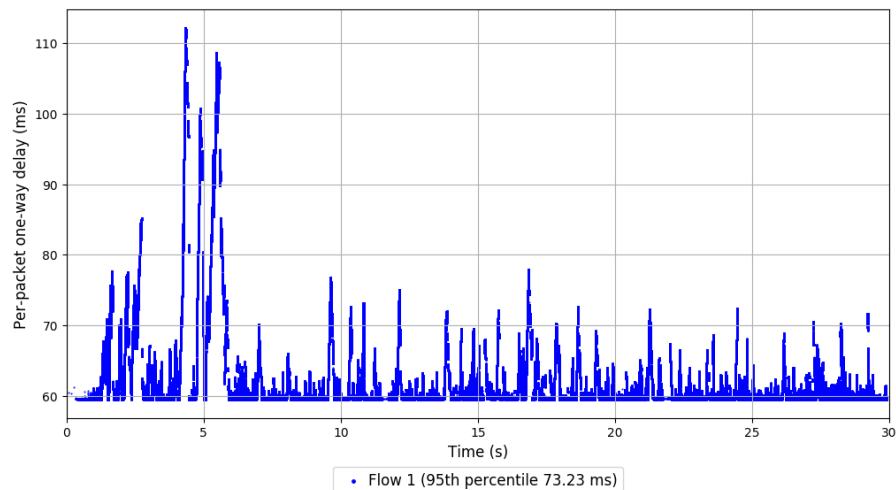
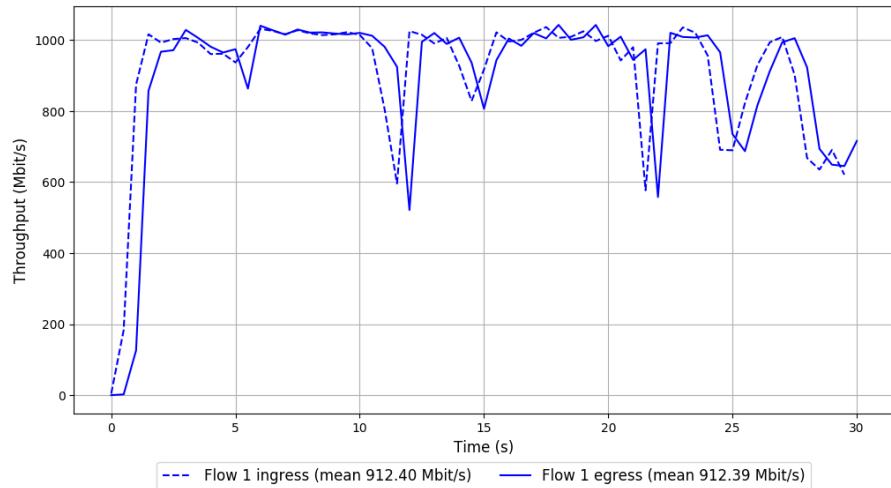


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-12-11 16:11:05
End at: 2019-12-11 16:11:35
Local clock offset: -0.003 ms
Remote clock offset: -0.152 ms

# Below is generated by plot.py at 2019-12-11 18:46:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 912.39 Mbit/s
95th percentile per-packet one-way delay: 73.234 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 912.39 Mbit/s
95th percentile per-packet one-way delay: 73.234 ms
Loss rate: 0.00%
```

Run 4: Report of FillP-Sheep — Data Link

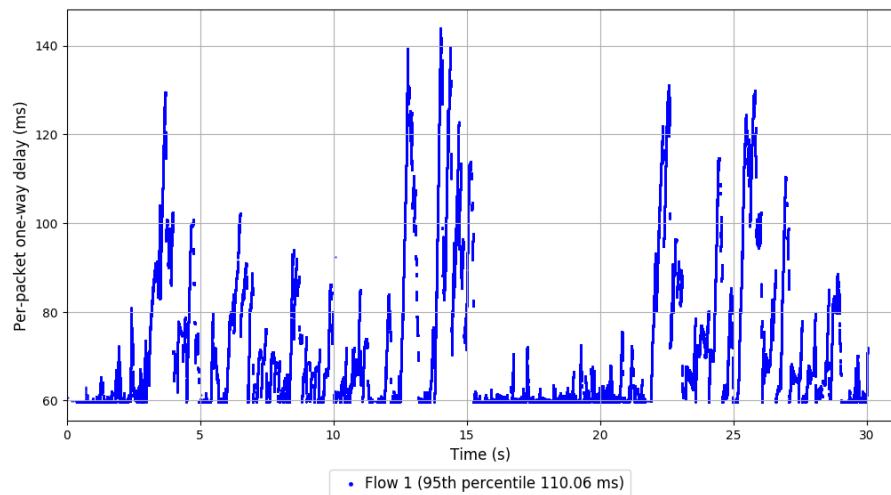
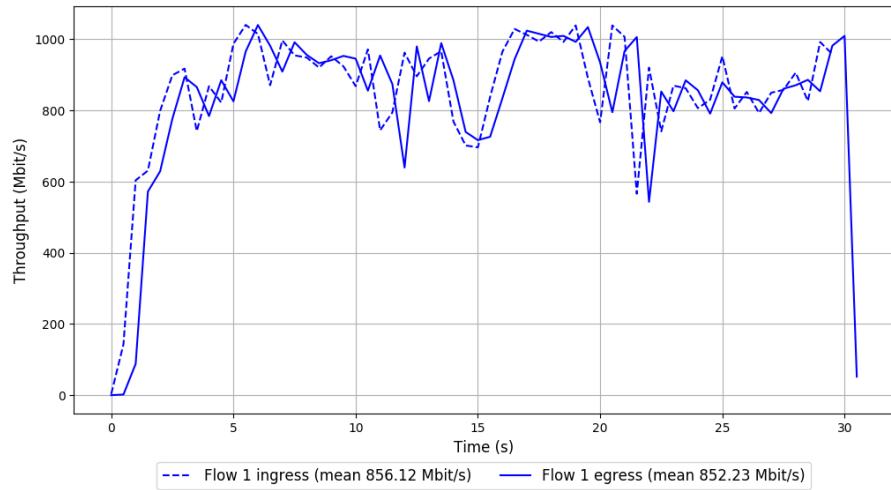


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-12-11 16:46:20
End at: 2019-12-11 16:46:50
Local clock offset: -0.134 ms
Remote clock offset: -0.061 ms

# Below is generated by plot.py at 2019-12-11 18:50:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 852.23 Mbit/s
95th percentile per-packet one-way delay: 110.057 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 852.23 Mbit/s
95th percentile per-packet one-way delay: 110.057 ms
Loss rate: 0.45%
```

Run 5: Report of FillP-Sheep — Data Link

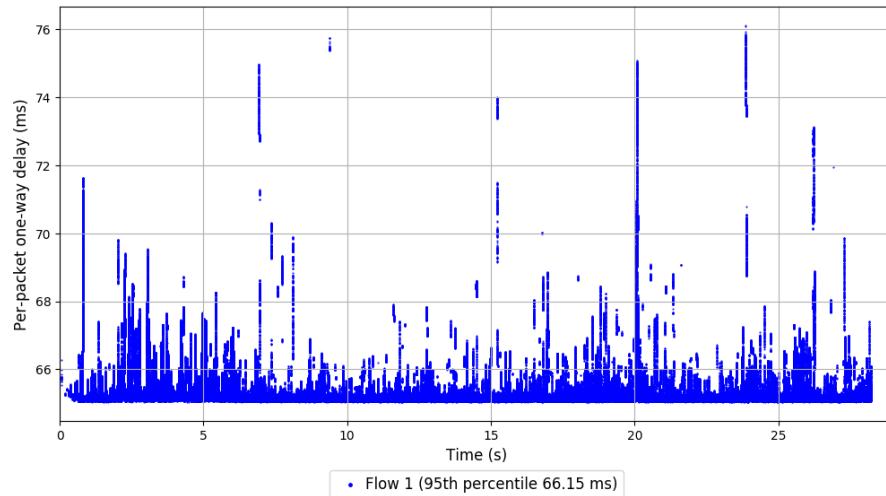
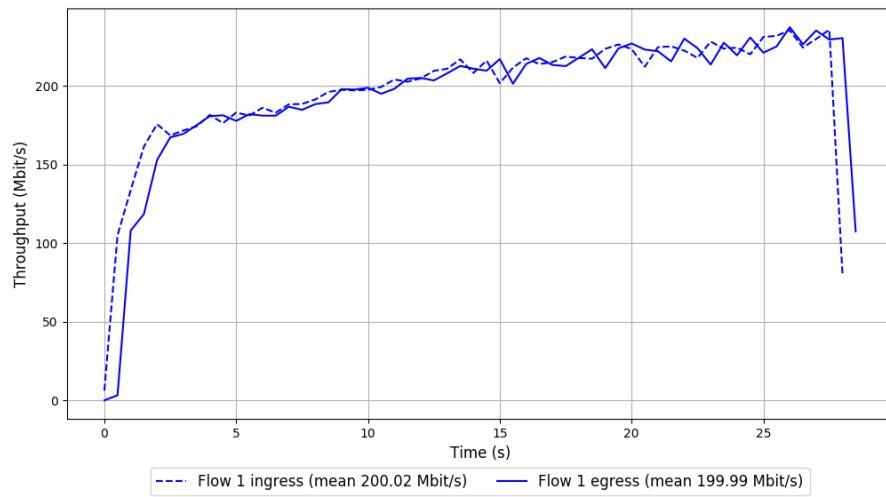


Run 1: Statistics of Indigo

```
Start at: 2019-12-11 14:58:56
End at: 2019-12-11 14:59:26
Local clock offset: -0.001 ms
Remote clock offset: -0.094 ms

# Below is generated by plot.py at 2019-12-11 18:50:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 199.99 Mbit/s
95th percentile per-packet one-way delay: 66.153 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 199.99 Mbit/s
95th percentile per-packet one-way delay: 66.153 ms
Loss rate: 0.03%
```

Run 1: Report of Indigo — Data Link

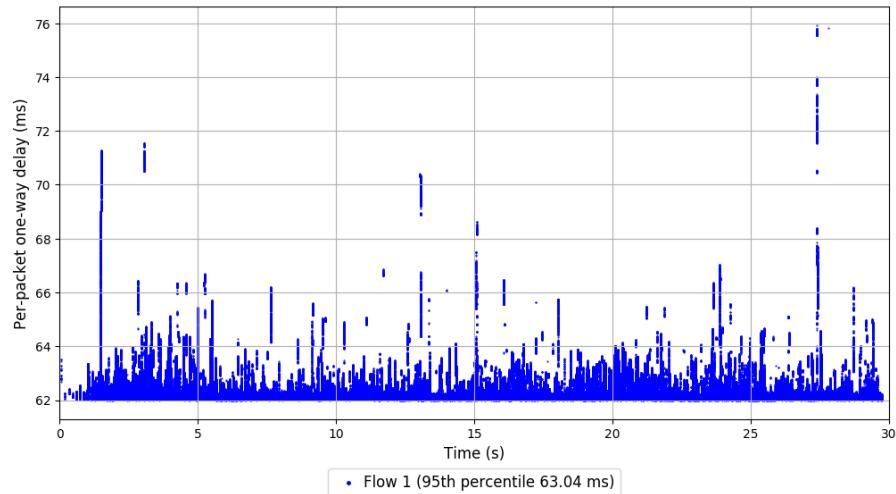
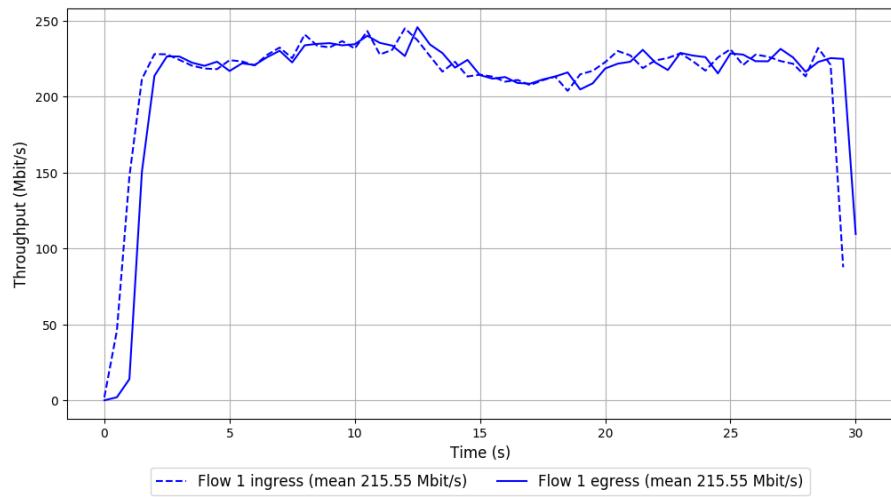


Run 2: Statistics of Indigo

```
Start at: 2019-12-11 15:34:13
End at: 2019-12-11 15:34:43
Local clock offset: -0.09 ms
Remote clock offset: -0.163 ms

# Below is generated by plot.py at 2019-12-11 18:50:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 215.55 Mbit/s
95th percentile per-packet one-way delay: 63.039 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 215.55 Mbit/s
95th percentile per-packet one-way delay: 63.039 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo — Data Link

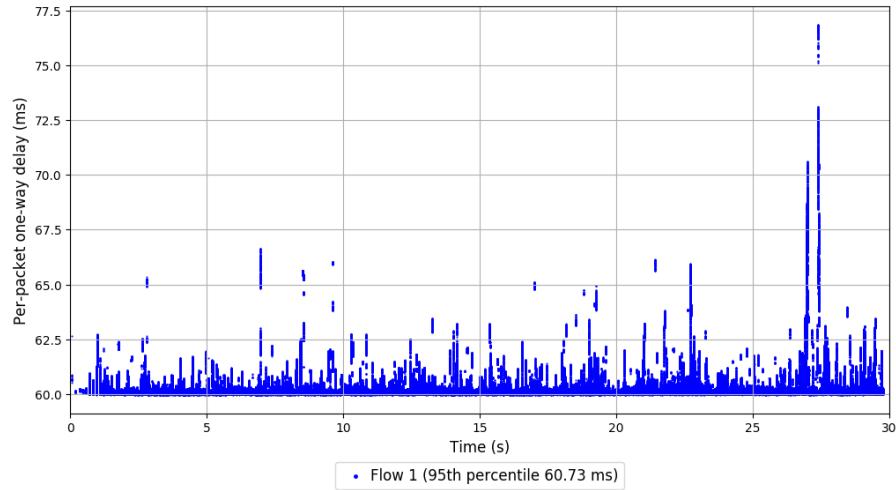
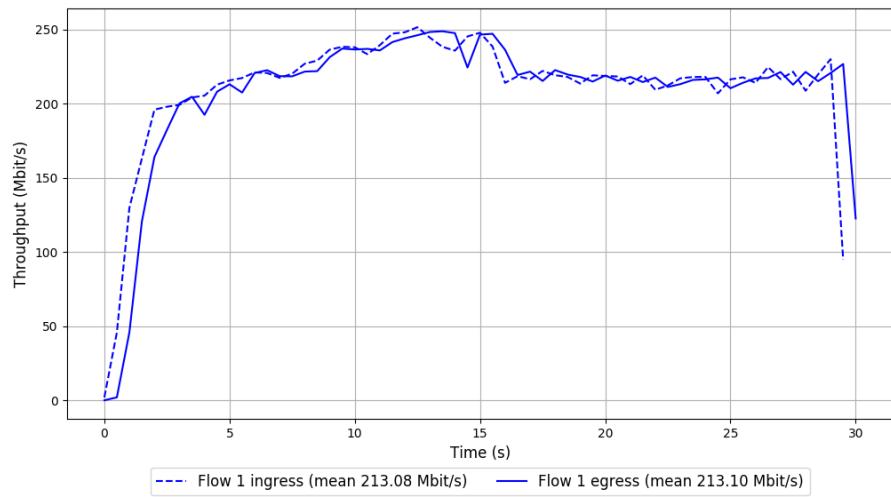


Run 3: Statistics of Indigo

```
Start at: 2019-12-11 16:09:37
End at: 2019-12-11 16:10:07
Local clock offset: -0.026 ms
Remote clock offset: 0.048 ms

# Below is generated by plot.py at 2019-12-11 18:50:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 213.10 Mbit/s
95th percentile per-packet one-way delay: 60.733 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 213.10 Mbit/s
95th percentile per-packet one-way delay: 60.733 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo — Data Link

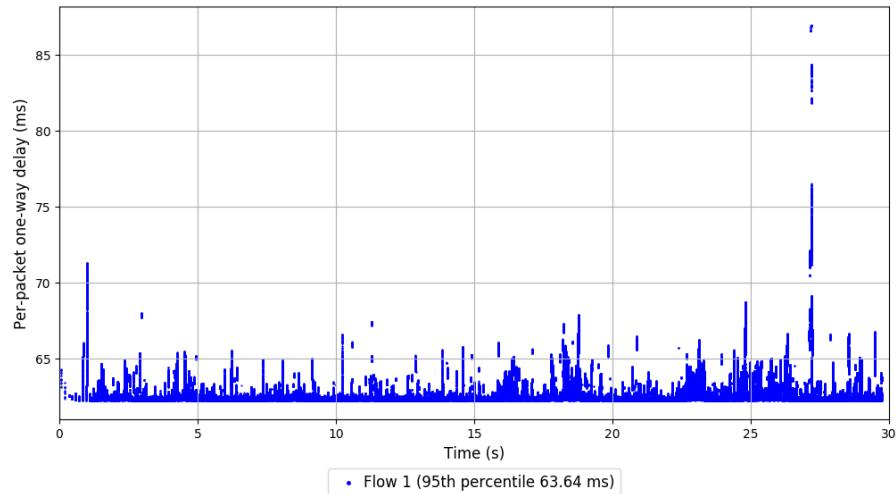
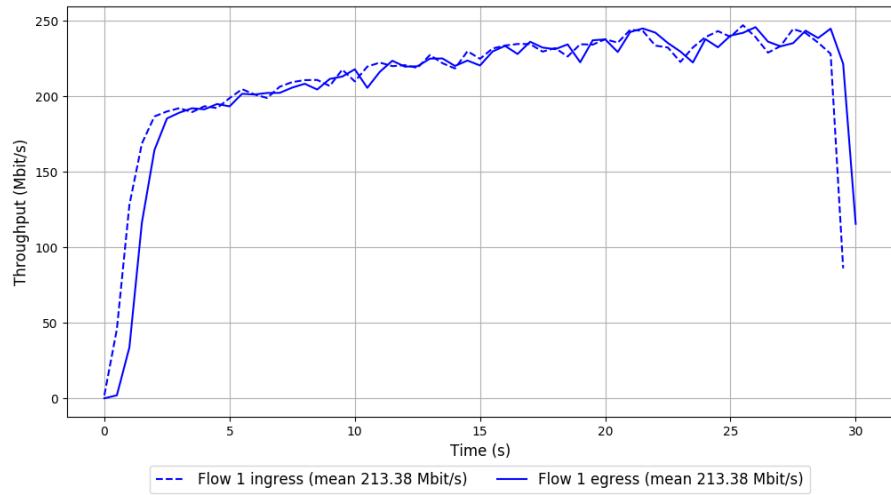


Run 4: Statistics of Indigo

```
Start at: 2019-12-11 16:44:52
End at: 2019-12-11 16:45:22
Local clock offset: -0.177 ms
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2019-12-11 18:50:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 213.38 Mbit/s
95th percentile per-packet one-way delay: 63.644 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 213.38 Mbit/s
95th percentile per-packet one-way delay: 63.644 ms
Loss rate: 0.01%
```

Run 4: Report of Indigo — Data Link

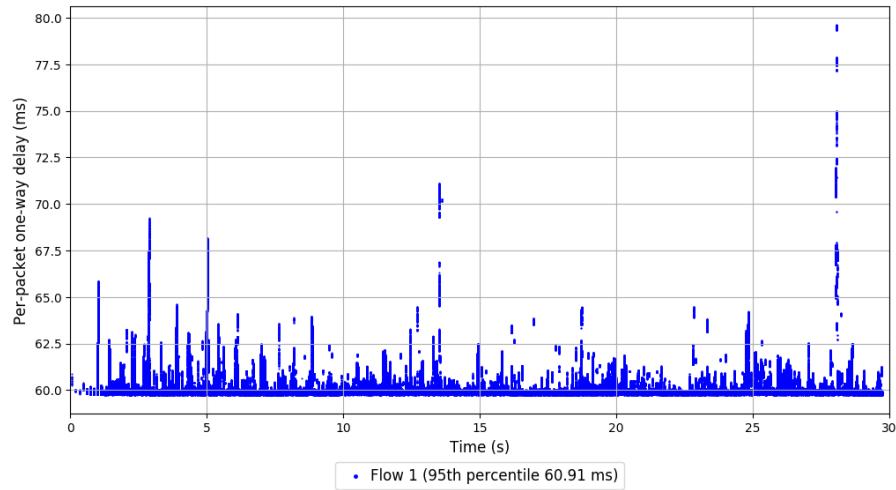
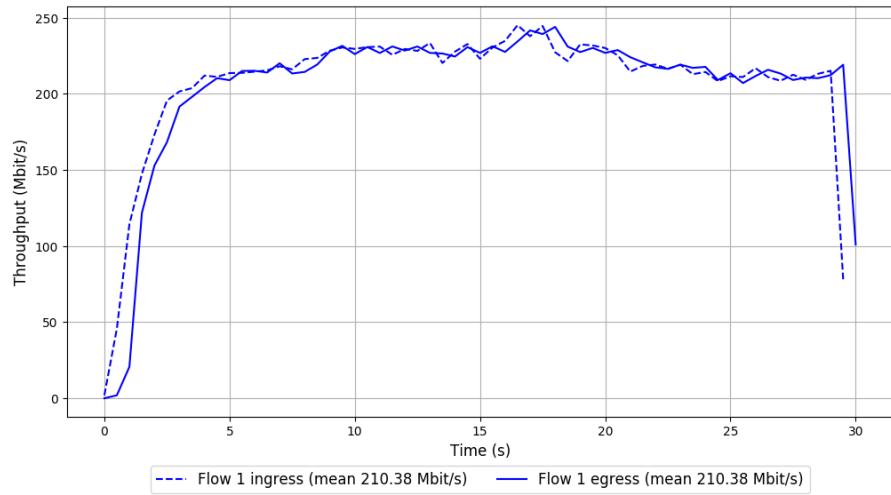


Run 5: Statistics of Indigo

```
Start at: 2019-12-11 17:20:05
End at: 2019-12-11 17:20:35
Local clock offset: -0.046 ms
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2019-12-11 18:50:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 210.38 Mbit/s
95th percentile per-packet one-way delay: 60.905 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 210.38 Mbit/s
95th percentile per-packet one-way delay: 60.905 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo — Data Link

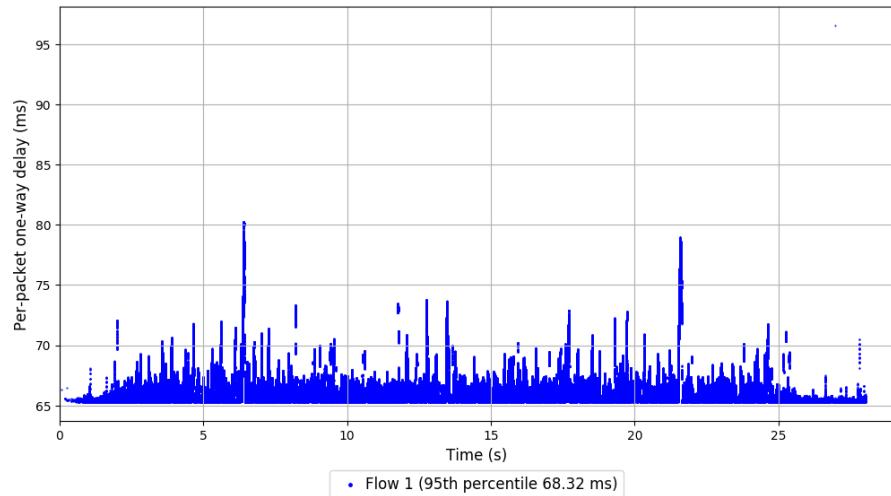
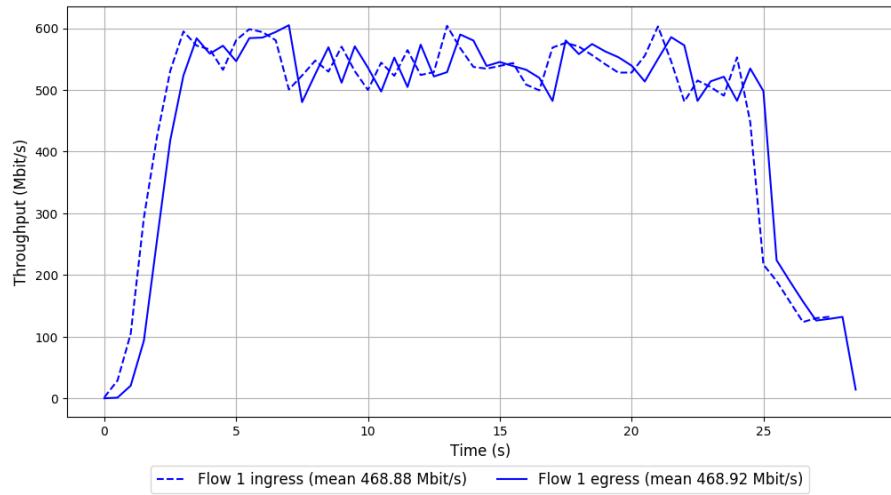


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-12-11 14:52:57
End at: 2019-12-11 14:53:27
Local clock offset: -0.026 ms
Remote clock offset: -0.196 ms

# Below is generated by plot.py at 2019-12-11 18:50:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 468.92 Mbit/s
95th percentile per-packet one-way delay: 68.319 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 468.92 Mbit/s
95th percentile per-packet one-way delay: 68.319 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo-MusesC3 — Data Link

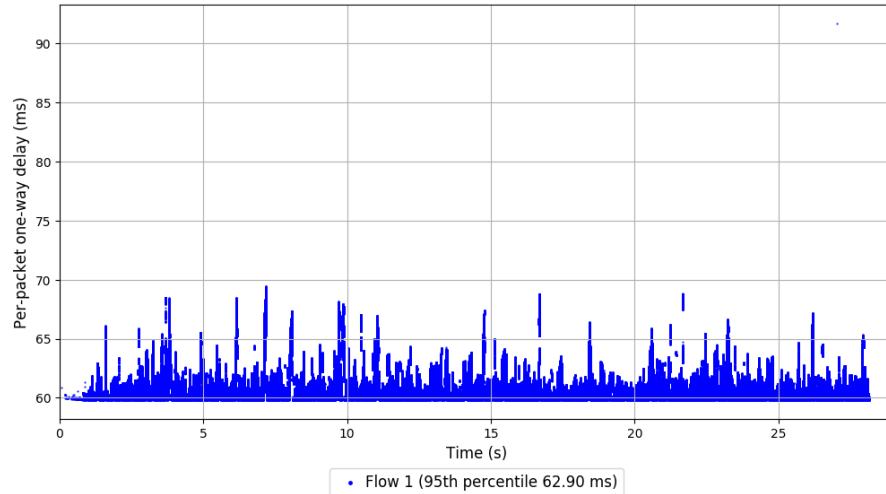
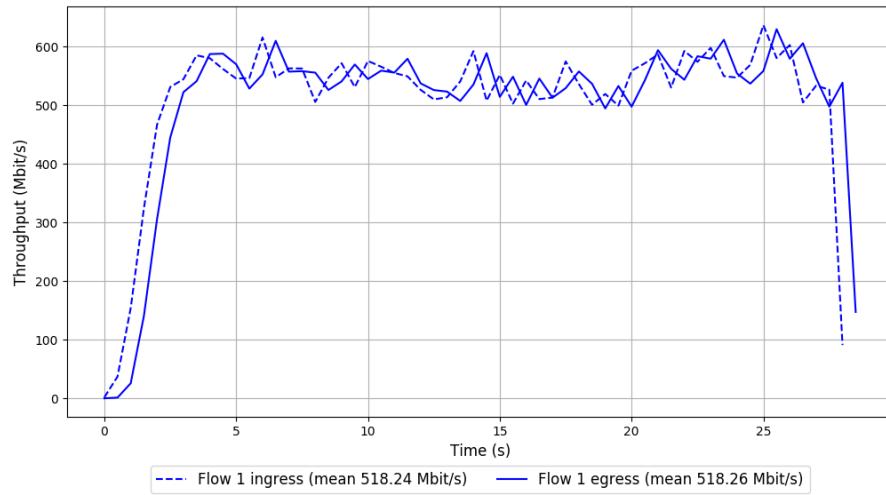


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-12-11 15:28:03
End at: 2019-12-11 15:28:34
Local clock offset: -0.078 ms
Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2019-12-11 18:50:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 518.26 Mbit/s
95th percentile per-packet one-way delay: 62.902 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 518.26 Mbit/s
95th percentile per-packet one-way delay: 62.902 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-MusesC3 — Data Link

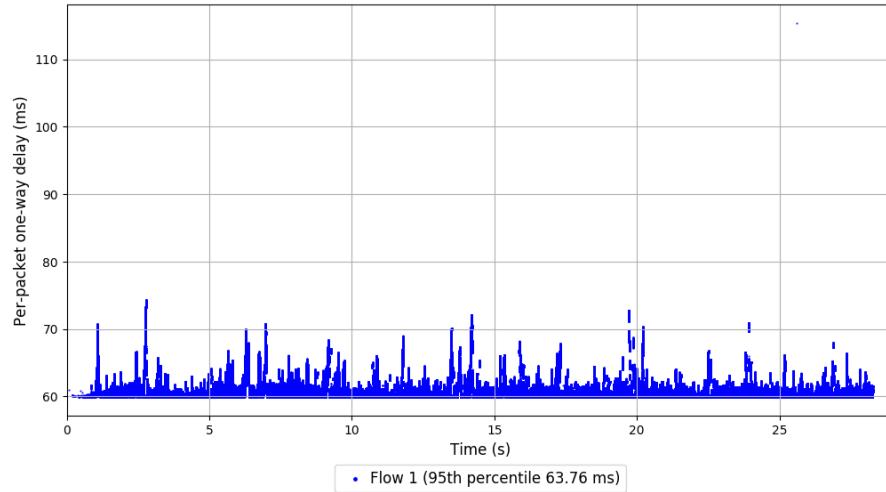
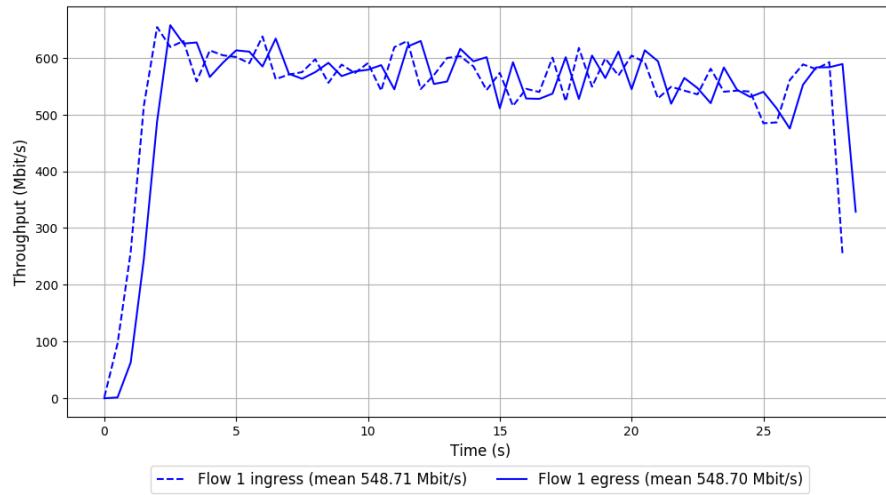


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-12-11 16:03:28
End at: 2019-12-11 16:03:58
Local clock offset: -0.043 ms
Remote clock offset: 0.025 ms

# Below is generated by plot.py at 2019-12-11 18:50:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 548.70 Mbit/s
95th percentile per-packet one-way delay: 63.761 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 548.70 Mbit/s
95th percentile per-packet one-way delay: 63.761 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-MusesC3 — Data Link

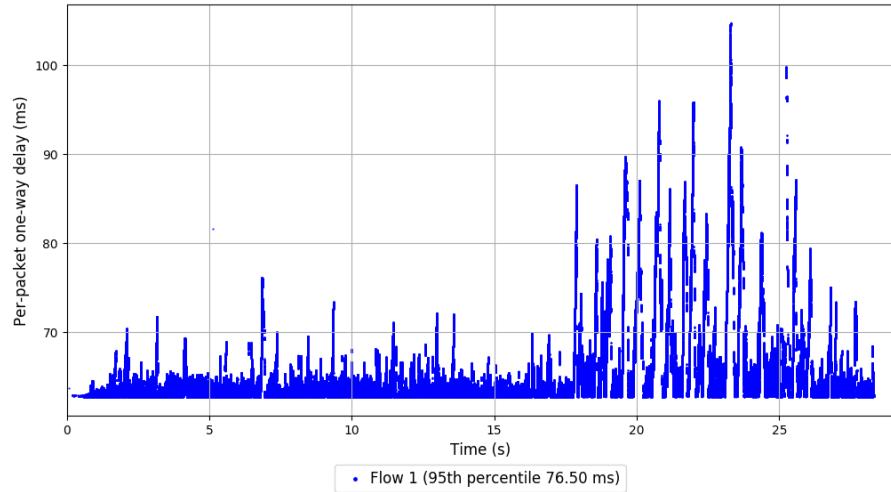
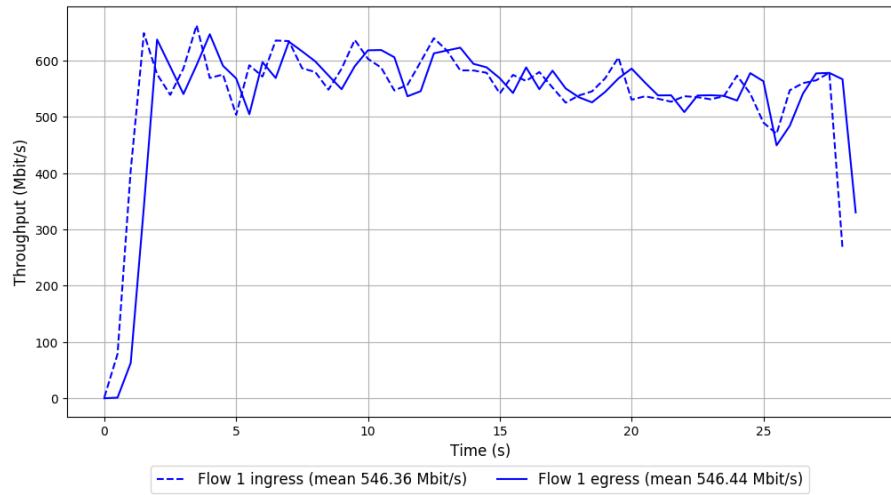


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-12-11 16:38:48
End at: 2019-12-11 16:39:18
Local clock offset: -0.158 ms
Remote clock offset: -0.16 ms

# Below is generated by plot.py at 2019-12-11 18:50:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 546.44 Mbit/s
95th percentile per-packet one-way delay: 76.502 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 546.44 Mbit/s
95th percentile per-packet one-way delay: 76.502 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-MusesC3 — Data Link

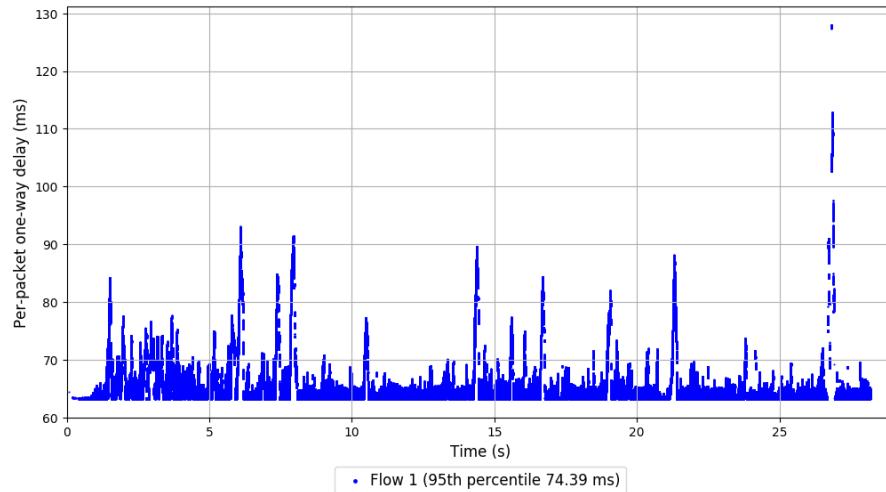
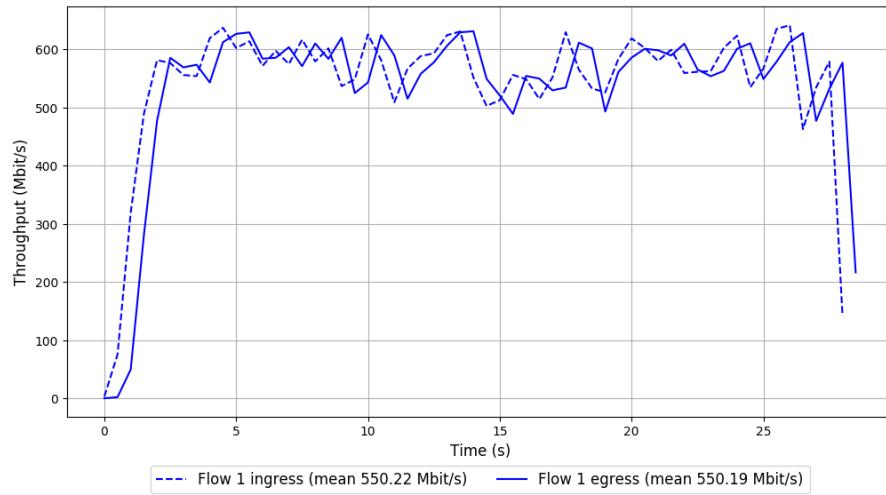


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-12-11 17:14:06
End at: 2019-12-11 17:14:36
Local clock offset: -0.077 ms
Remote clock offset: 0.021 ms

# Below is generated by plot.py at 2019-12-11 18:50:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 550.19 Mbit/s
95th percentile per-packet one-way delay: 74.391 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 550.19 Mbit/s
95th percentile per-packet one-way delay: 74.391 ms
Loss rate: 0.02%
```

Run 5: Report of Indigo-MusesC3 — Data Link

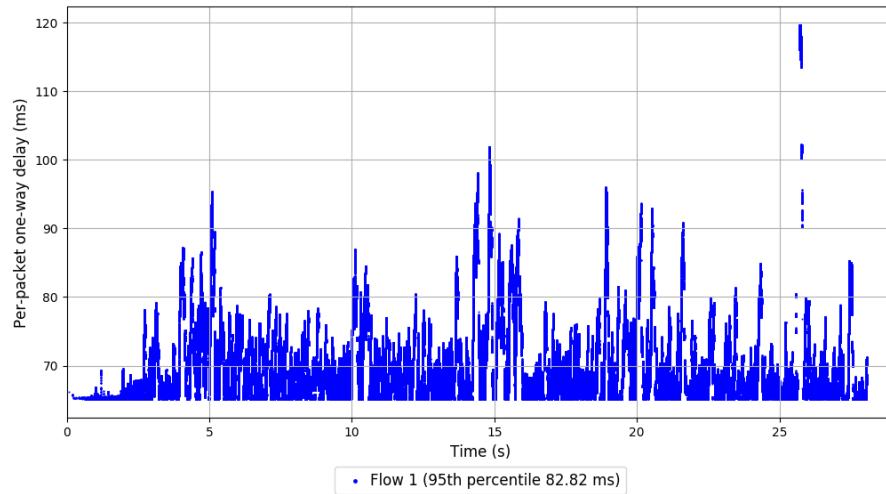
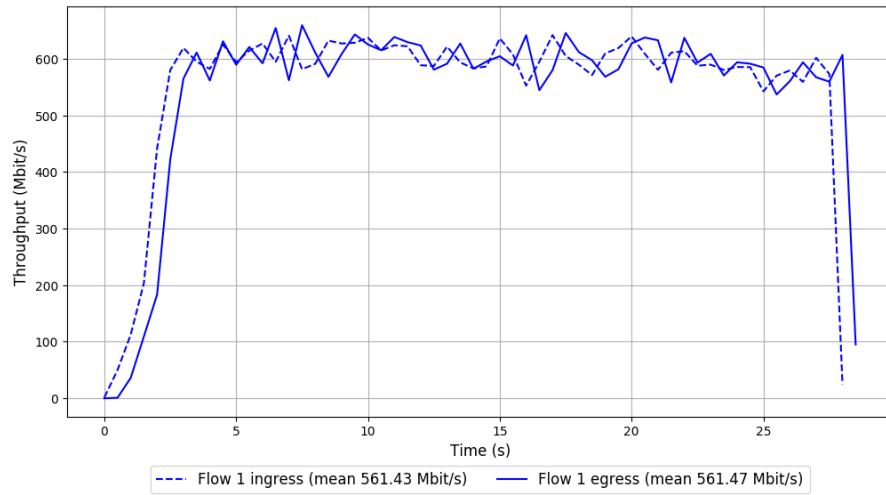


```
Run 1: Statistics of Indigo-MusesC5
```

```
Start at: 2019-12-11 14:50:14
End at: 2019-12-11 14:50:44
Local clock offset: 0.018 ms
Remote clock offset: -0.006 ms

# Below is generated by plot.py at 2019-12-11 18:51:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 561.47 Mbit/s
95th percentile per-packet one-way delay: 82.823 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 561.47 Mbit/s
95th percentile per-packet one-way delay: 82.823 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo-MusesC5 — Data Link

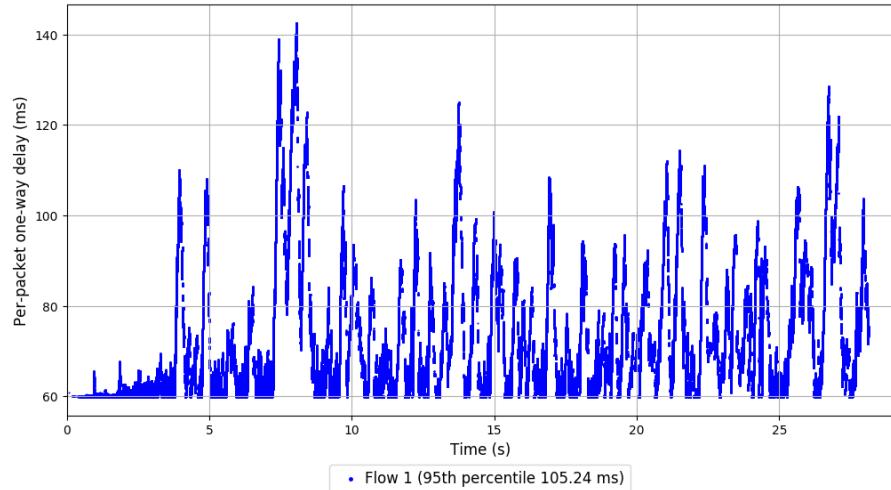
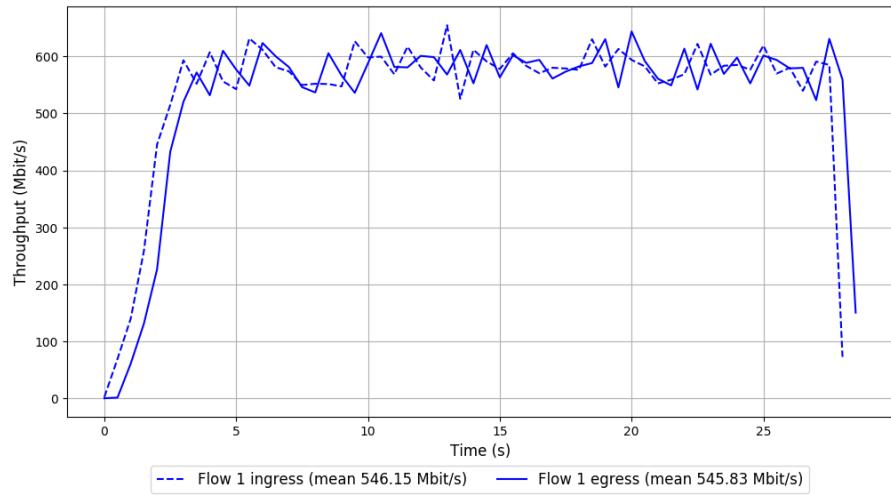


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-12-11 15:25:22
End at: 2019-12-11 15:25:52
Local clock offset: -0.037 ms
Remote clock offset: 0.034 ms

# Below is generated by plot.py at 2019-12-11 18:54:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 545.83 Mbit/s
95th percentile per-packet one-way delay: 105.237 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 545.83 Mbit/s
95th percentile per-packet one-way delay: 105.237 ms
Loss rate: 0.06%
```

Run 2: Report of Indigo-MusesC5 — Data Link

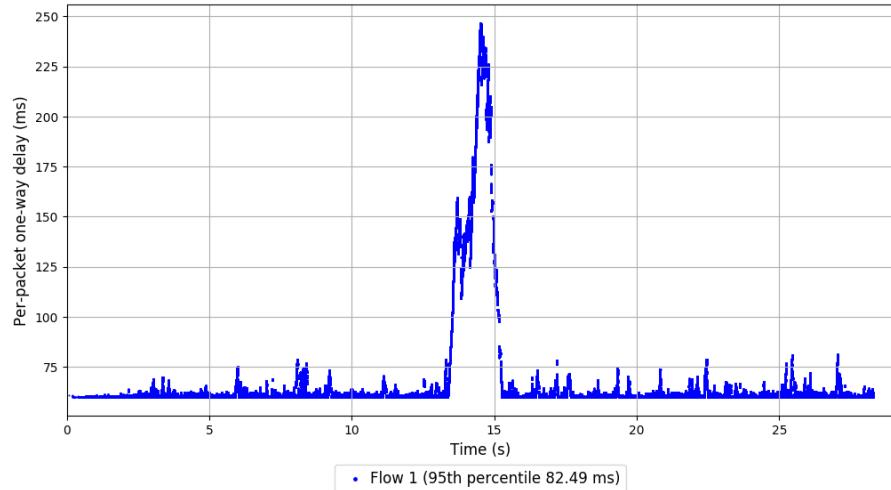
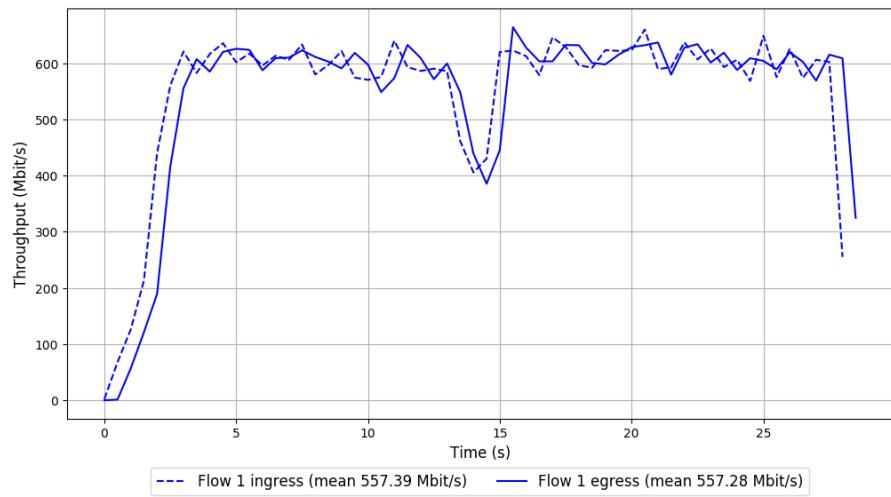


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-12-11 16:00:45
End at: 2019-12-11 16:01:15
Local clock offset: -0.04 ms
Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2019-12-11 18:57:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 557.28 Mbit/s
95th percentile per-packet one-way delay: 82.490 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 557.28 Mbit/s
95th percentile per-packet one-way delay: 82.490 ms
Loss rate: 0.02%
```

Run 3: Report of Indigo-MusesC5 — Data Link

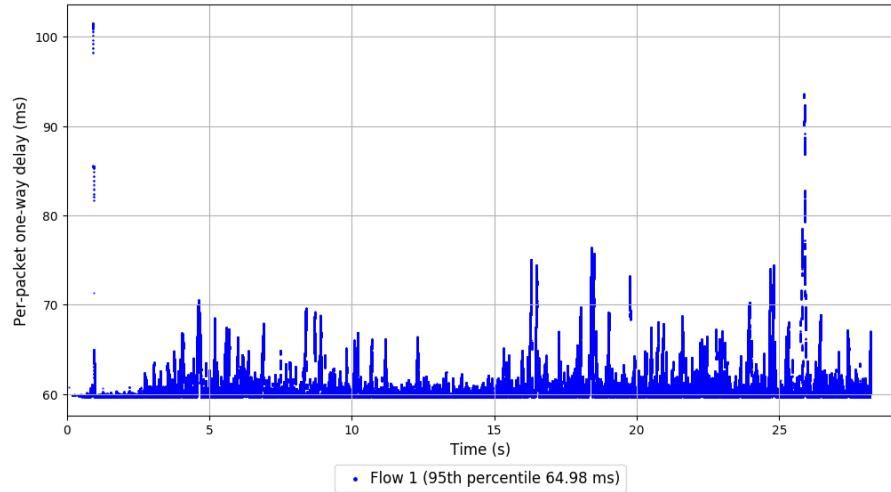
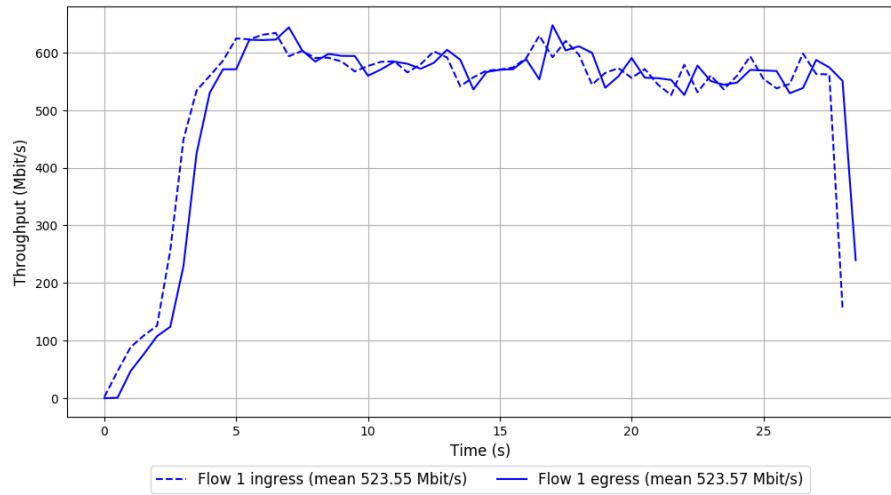


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-12-11 16:36:07
End at: 2019-12-11 16:36:37
Local clock offset: -0.154 ms
Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2019-12-11 18:59:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 523.57 Mbit/s
95th percentile per-packet one-way delay: 64.984 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 523.57 Mbit/s
95th percentile per-packet one-way delay: 64.984 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-MusesC5 — Data Link

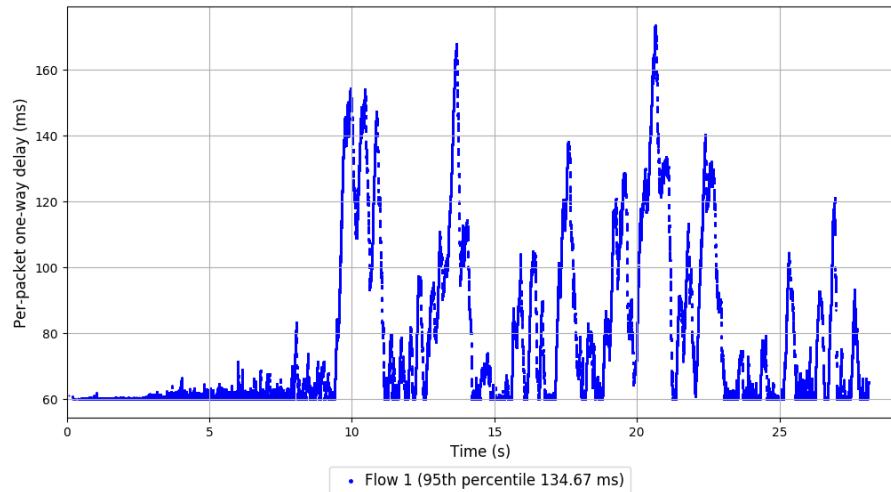
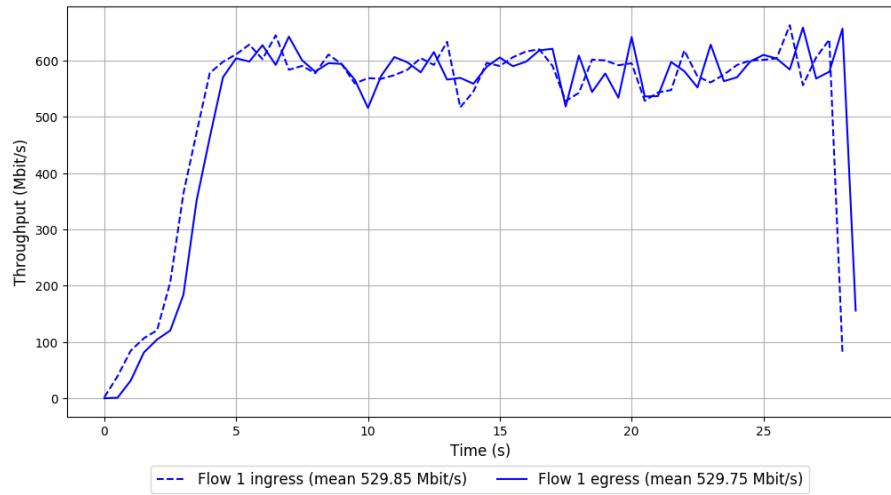


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-12-11 17:11:25
End at: 2019-12-11 17:11:55
Local clock offset: -0.093 ms
Remote clock offset: 0.005 ms

# Below is generated by plot.py at 2019-12-11 19:00:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 529.75 Mbit/s
95th percentile per-packet one-way delay: 134.666 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 529.75 Mbit/s
95th percentile per-packet one-way delay: 134.666 ms
Loss rate: 0.02%
```

Run 5: Report of Indigo-MusesC5 — Data Link

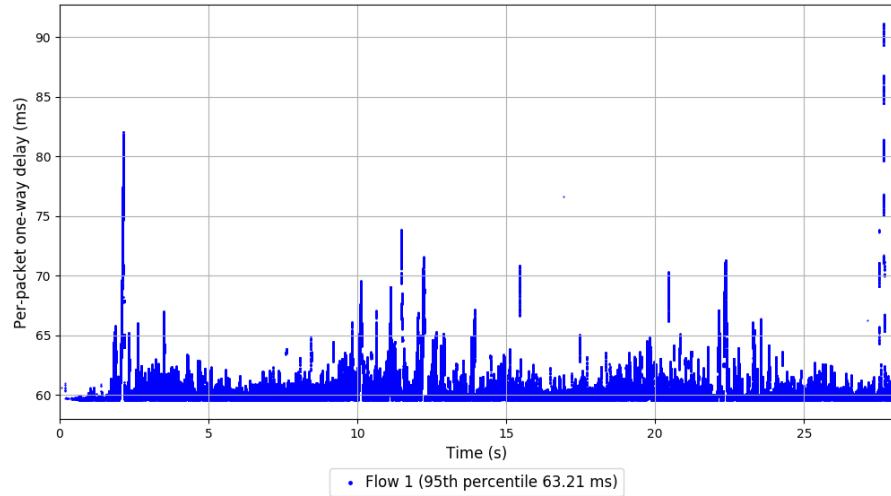
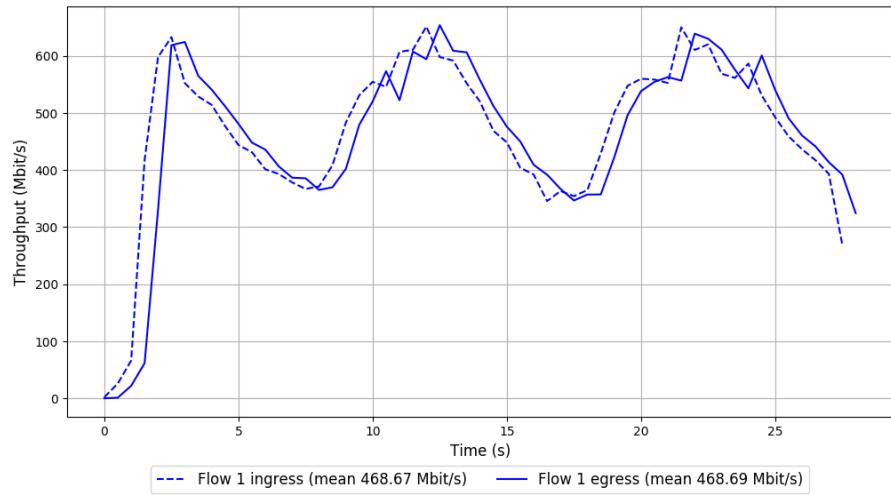


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-12-11 14:40:11
End at: 2019-12-11 14:40:41
Local clock offset: -0.04 ms
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2019-12-11 19:00:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 468.69 Mbit/s
95th percentile per-packet one-way delay: 63.213 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 468.69 Mbit/s
95th percentile per-packet one-way delay: 63.213 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesD — Data Link

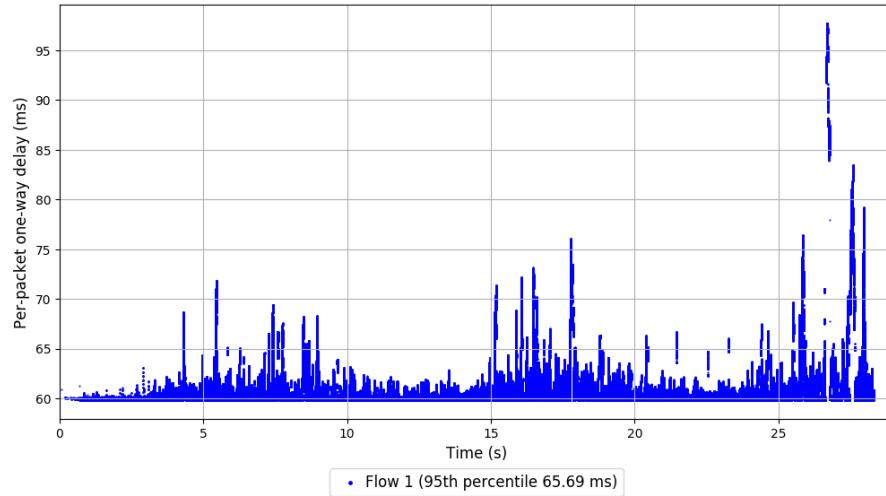
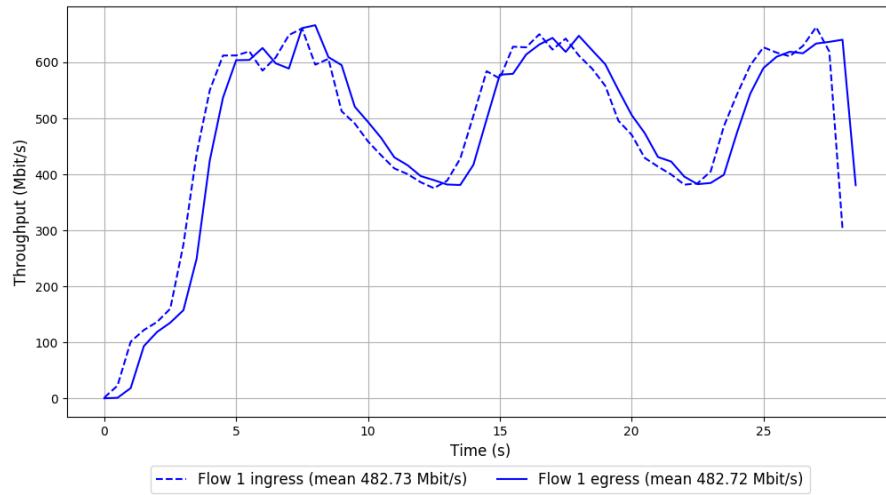


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-12-11 15:15:10
End at: 2019-12-11 15:15:40
Local clock offset: 0.014 ms
Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2019-12-11 19:00:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 482.72 Mbit/s
95th percentile per-packet one-way delay: 65.687 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 482.72 Mbit/s
95th percentile per-packet one-way delay: 65.687 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-MusesD — Data Link

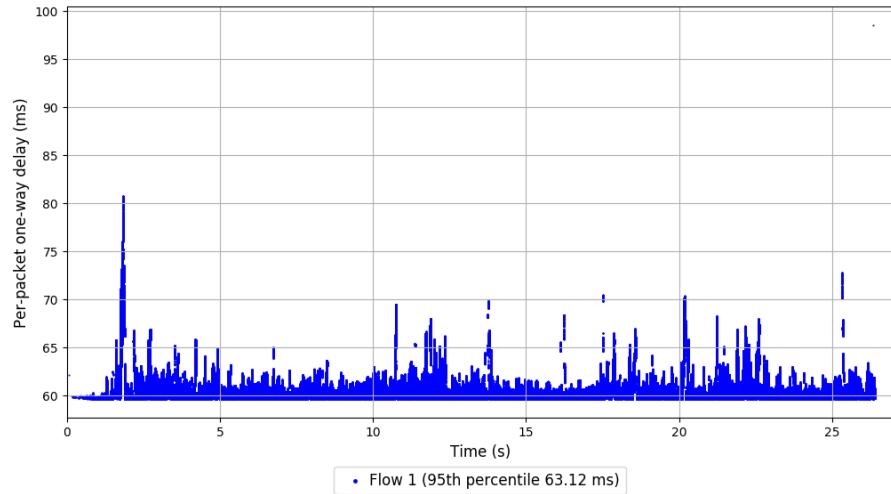
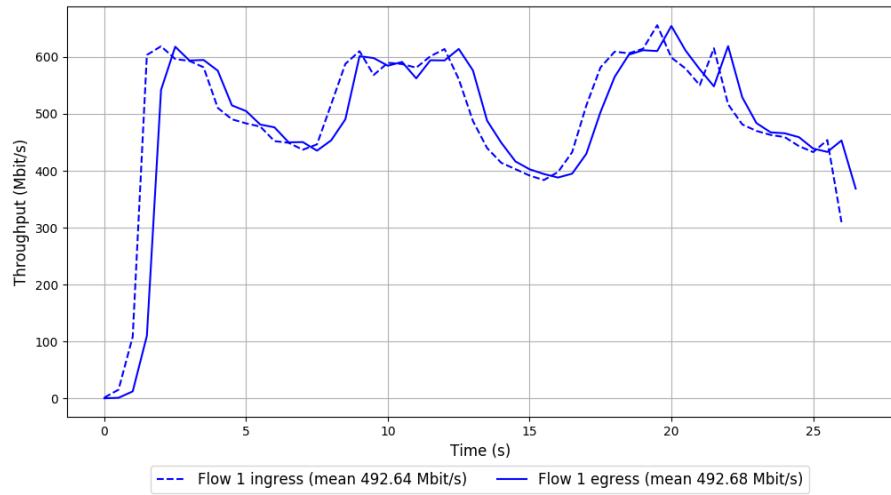


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-12-11 15:50:28
End at: 2019-12-11 15:50:58
Local clock offset: -0.102 ms
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2019-12-11 19:00:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 492.68 Mbit/s
95th percentile per-packet one-way delay: 63.122 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 492.68 Mbit/s
95th percentile per-packet one-way delay: 63.122 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-MusesD — Data Link

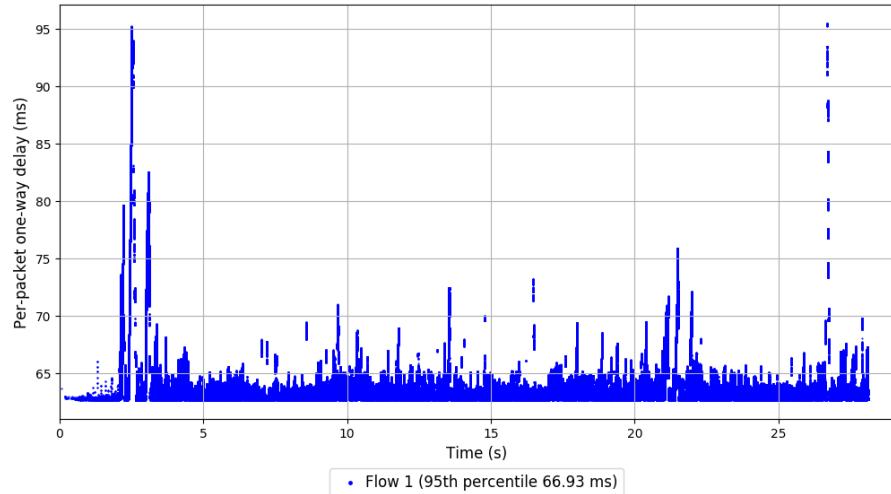
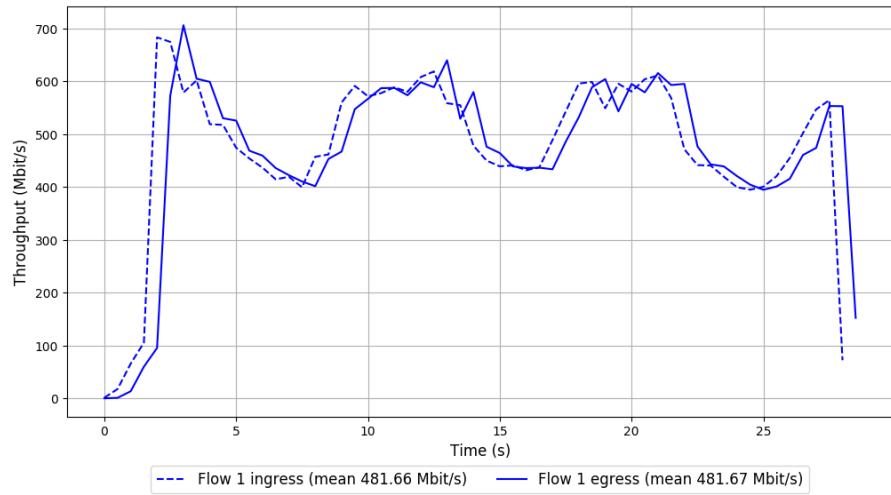


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-12-11 16:25:37
End at: 2019-12-11 16:26:07
Local clock offset: -0.097 ms
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2019-12-11 19:00:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 481.67 Mbit/s
95th percentile per-packet one-way delay: 66.928 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 481.67 Mbit/s
95th percentile per-packet one-way delay: 66.928 ms
Loss rate: 0.01%
```

Run 4: Report of Indigo-MusesD — Data Link

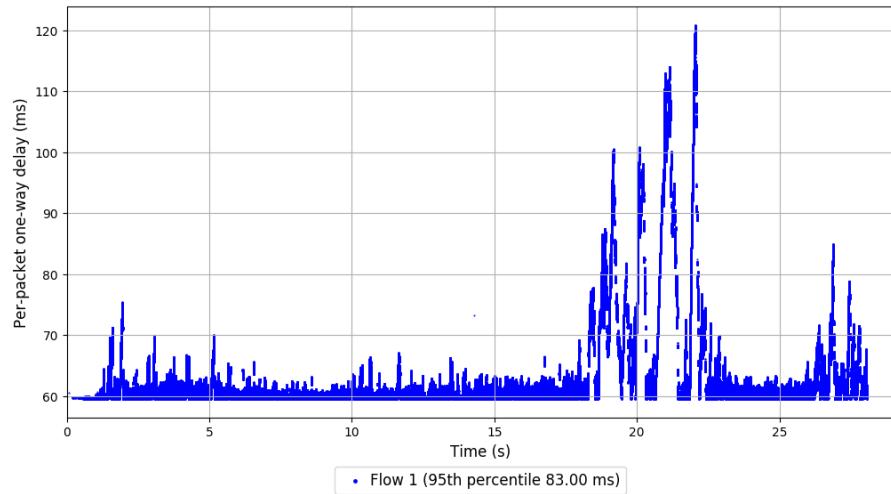
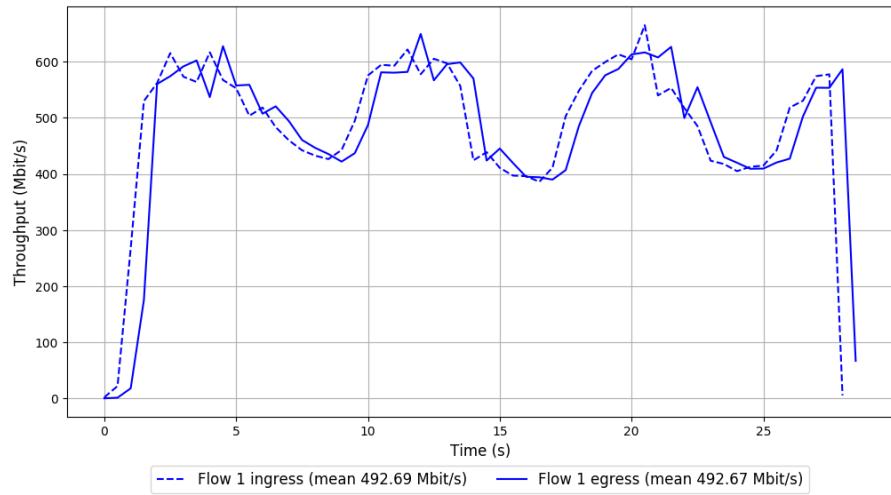


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-12-11 17:00:57
End at: 2019-12-11 17:01:27
Local clock offset: -0.126 ms
Remote clock offset: -0.172 ms

# Below is generated by plot.py at 2019-12-11 19:03:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 492.67 Mbit/s
95th percentile per-packet one-way delay: 82.995 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 492.67 Mbit/s
95th percentile per-packet one-way delay: 82.995 ms
Loss rate: 0.01%
```

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

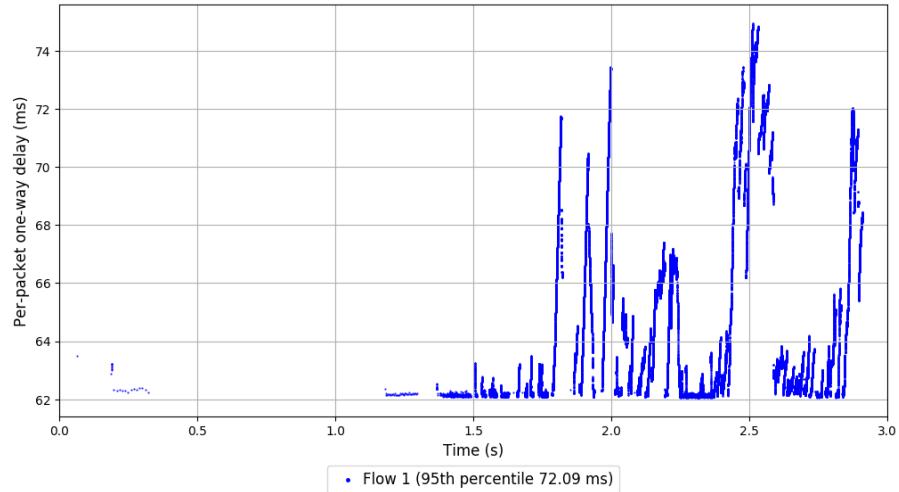
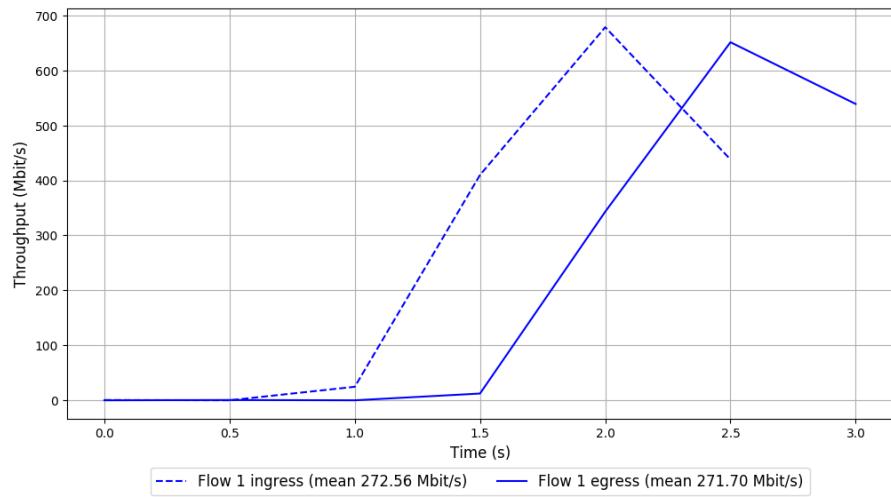
Start at: 2019-12-11 14:27:31

End at: 2019-12-11 14:28:01

Local clock offset: 0.002 ms

Remote clock offset: -0.144 ms

Run 1: Report of Indigo-MusesT — Data Link

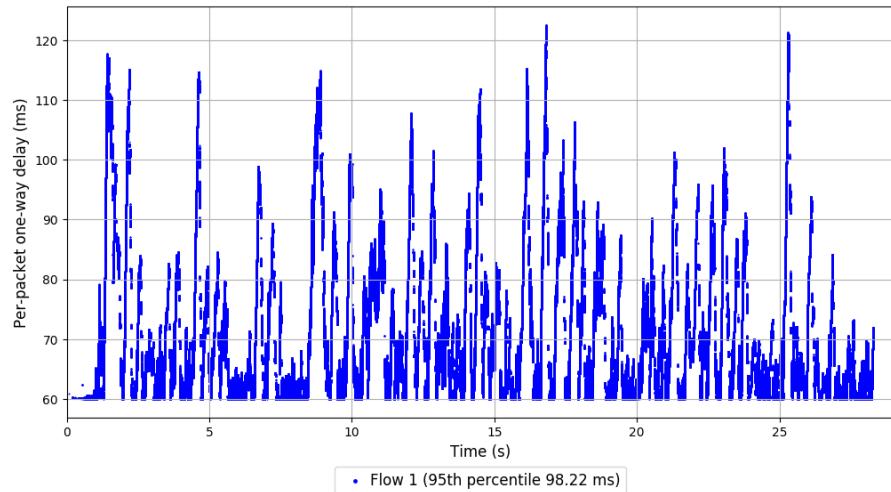
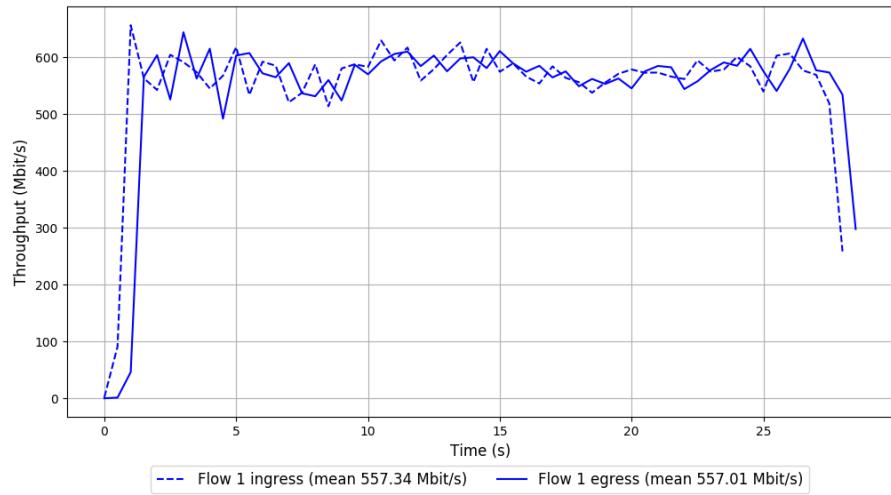


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-12-11 15:02:06
End at: 2019-12-11 15:02:37
Local clock offset: -0.025 ms
Remote clock offset: 0.105 ms

# Below is generated by plot.py at 2019-12-11 19:08:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 557.01 Mbit/s
95th percentile per-packet one-way delay: 98.220 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 557.01 Mbit/s
95th percentile per-packet one-way delay: 98.220 ms
Loss rate: 0.06%
```

Run 2: Report of Indigo-MusesT — Data Link

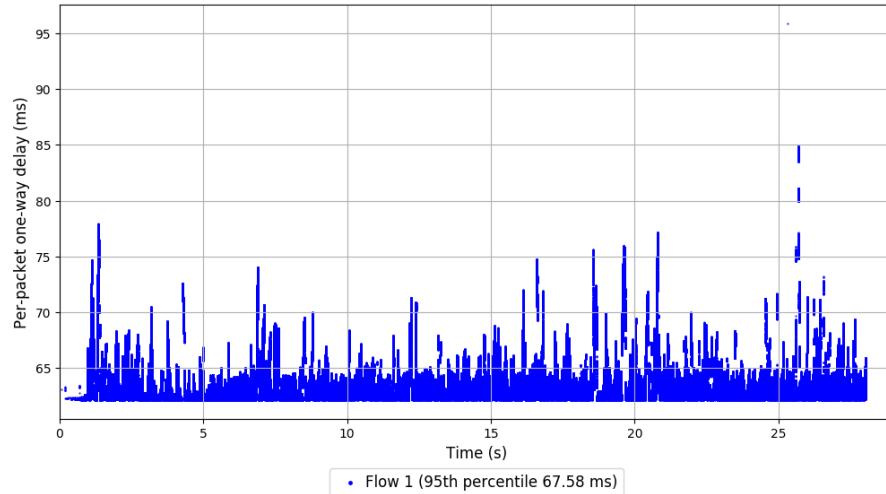
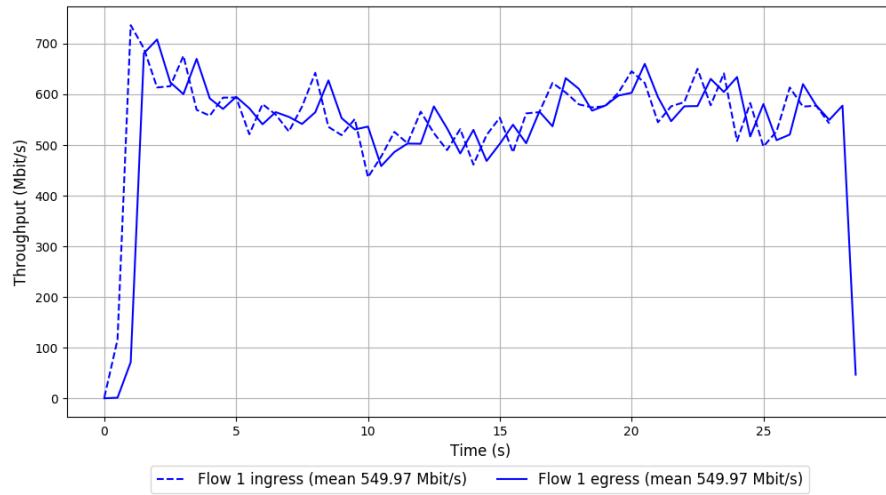


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-12-11 15:37:26
End at: 2019-12-11 15:37:57
Local clock offset: -0.092 ms
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2019-12-11 19:08:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 549.97 Mbit/s
95th percentile per-packet one-way delay: 67.585 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 549.97 Mbit/s
95th percentile per-packet one-way delay: 67.585 ms
Loss rate: 0.01%
```

Run 3: Report of Indigo-MusesT — Data Link

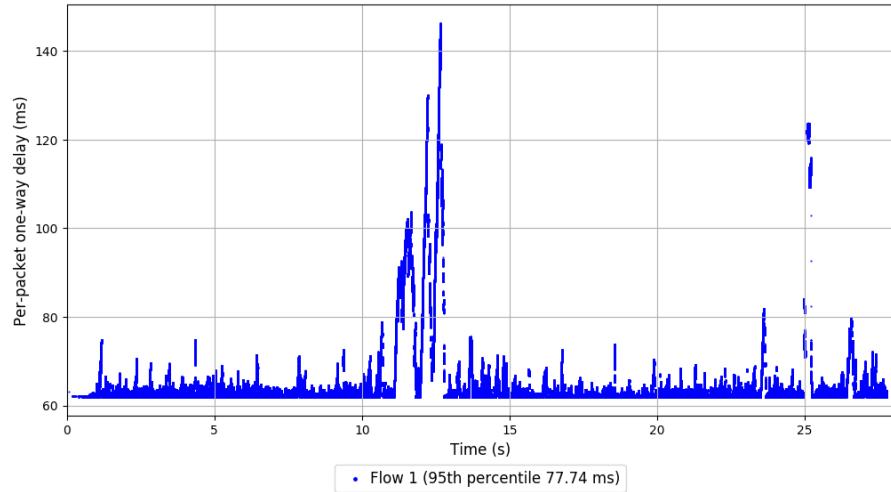
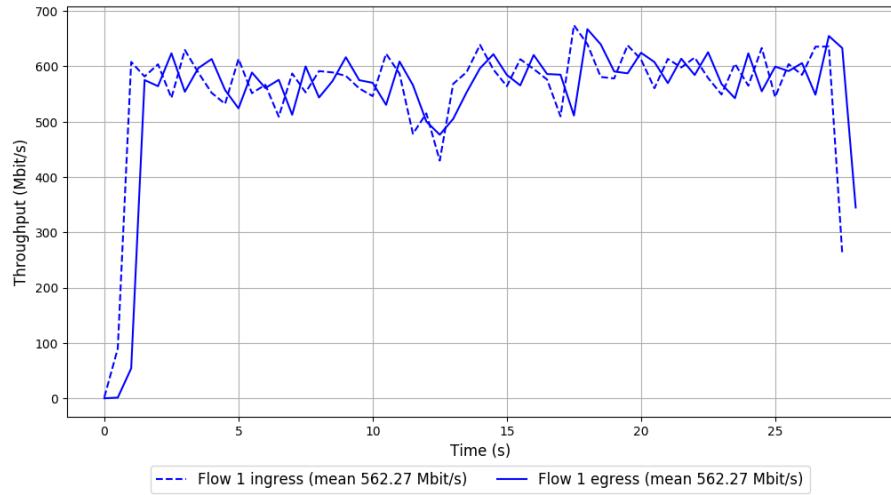


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-12-11 16:12:49
End at: 2019-12-11 16:13:19
Local clock offset: -0.033 ms
Remote clock offset: -0.173 ms

# Below is generated by plot.py at 2019-12-11 19:10:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 562.27 Mbit/s
95th percentile per-packet one-way delay: 77.744 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 562.27 Mbit/s
95th percentile per-packet one-way delay: 77.744 ms
Loss rate: 0.01%
```

Run 4: Report of Indigo-MusesT — Data Link

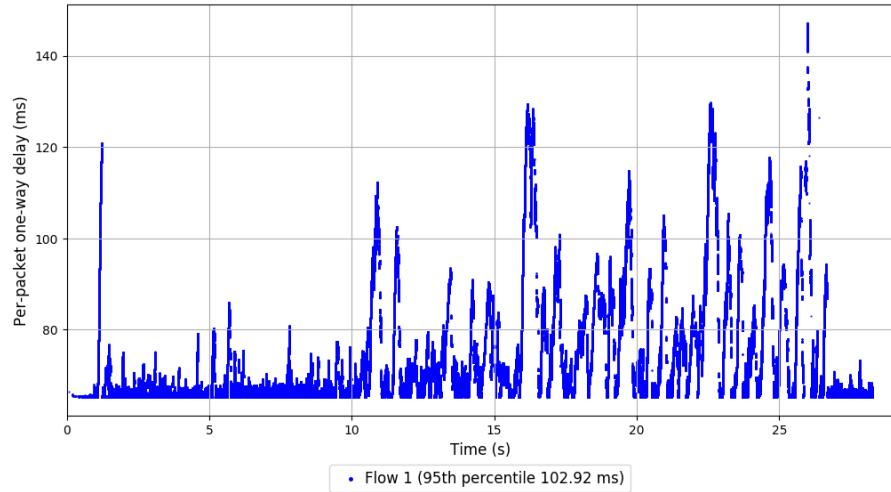
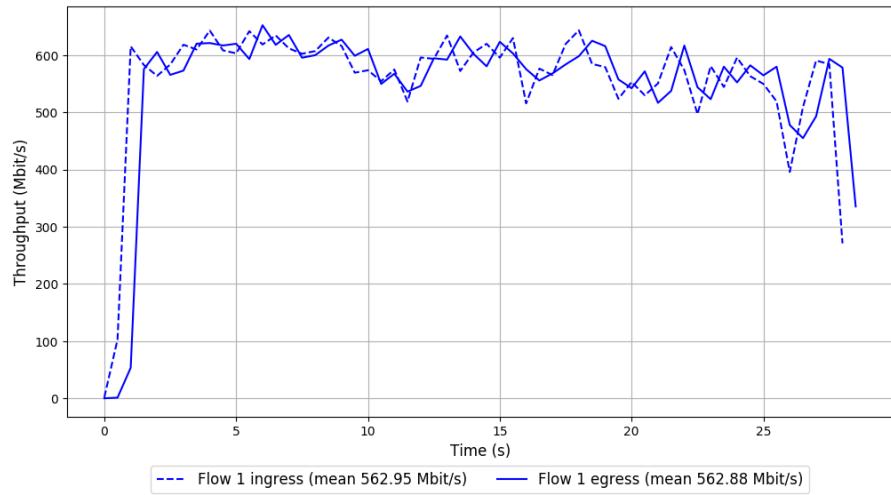


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-12-11 16:48:02
End at: 2019-12-11 16:48:32
Local clock offset: -0.175 ms
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2019-12-11 19:10:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 562.88 Mbit/s
95th percentile per-packet one-way delay: 102.921 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 562.88 Mbit/s
95th percentile per-packet one-way delay: 102.921 ms
Loss rate: 0.03%
```

Run 5: Report of Indigo-MusesT — Data Link

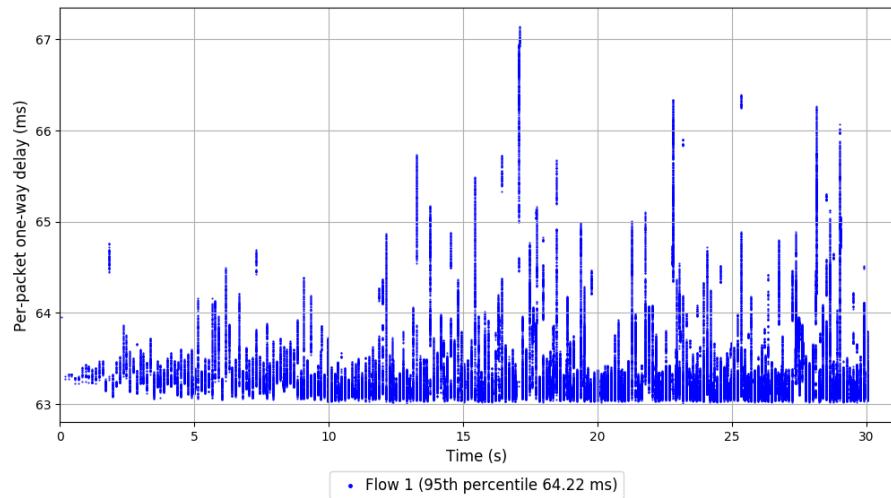
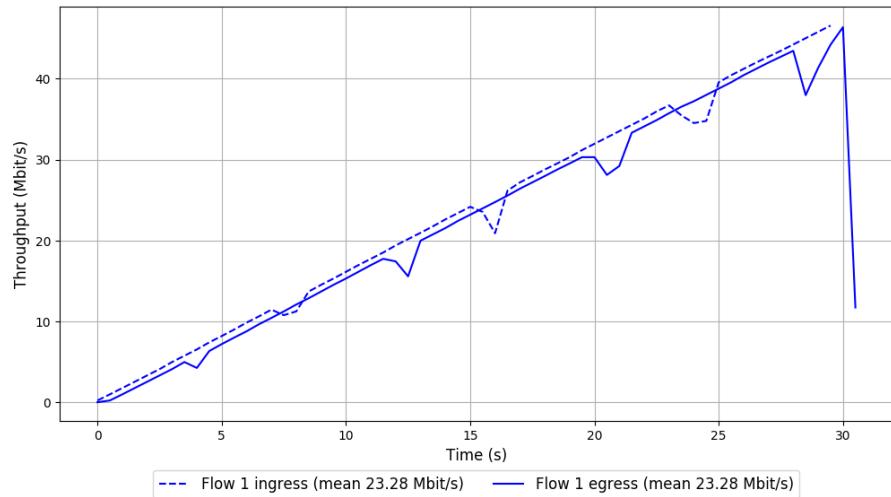


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-12-11 14:39:00
End at: 2019-12-11 14:39:31
Local clock offset: -0.073 ms
Remote clock offset: -0.173 ms

# Below is generated by plot.py at 2019-12-11 19:10:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.28 Mbit/s
95th percentile per-packet one-way delay: 64.218 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 23.28 Mbit/s
95th percentile per-packet one-way delay: 64.218 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

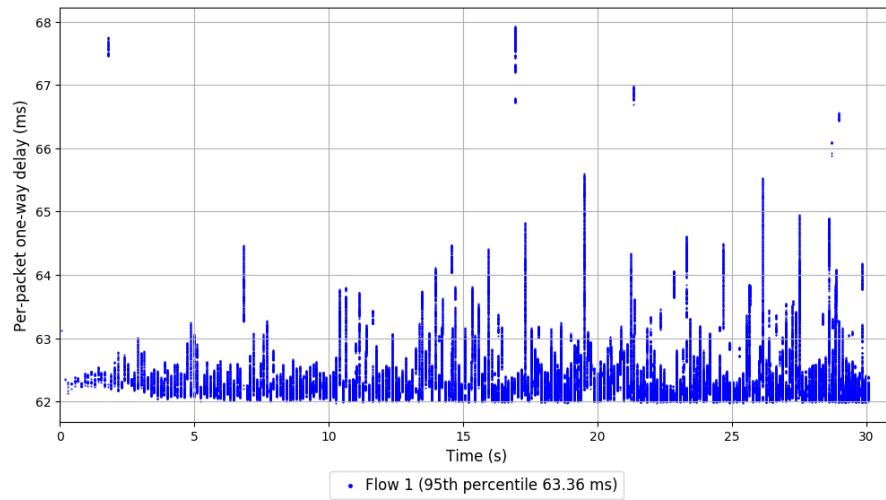
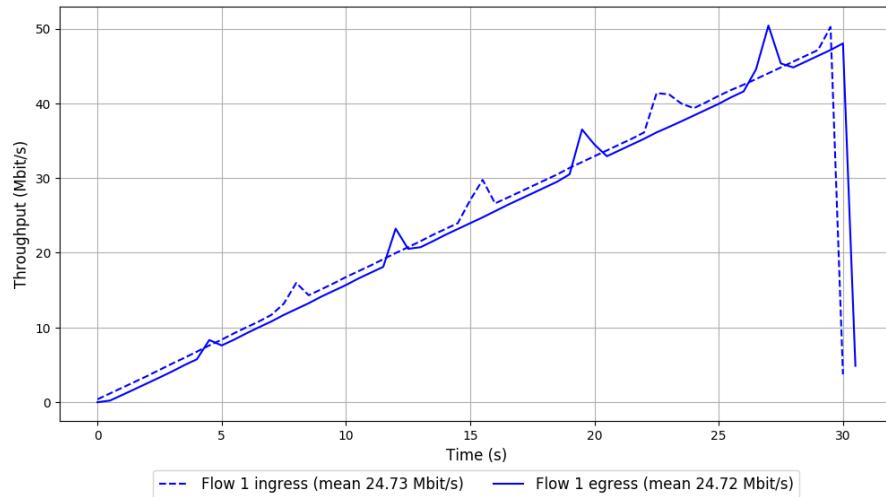


Run 2: Statistics of LEDBAT

```
Start at: 2019-12-11 15:13:59
End at: 2019-12-11 15:14:29
Local clock offset: 0.003 ms
Remote clock offset: 0.002 ms

# Below is generated by plot.py at 2019-12-11 19:10:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.72 Mbit/s
95th percentile per-packet one-way delay: 63.356 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 24.72 Mbit/s
95th percentile per-packet one-way delay: 63.356 ms
Loss rate: 0.07%
```

Run 2: Report of LEDBAT — Data Link

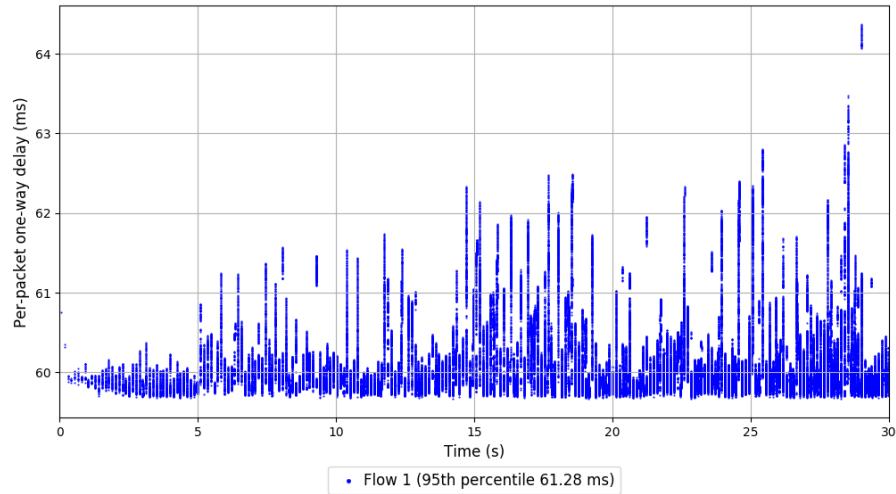
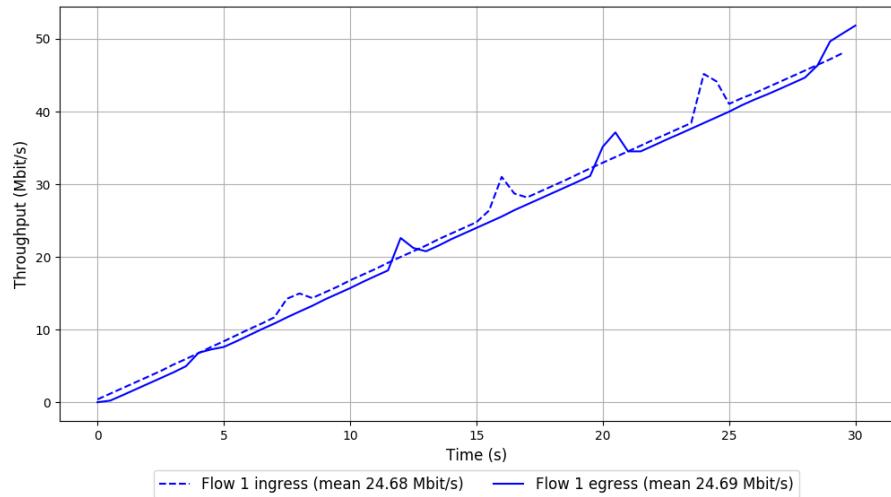


Run 3: Statistics of LEDBAT

```
Start at: 2019-12-11 15:49:17
End at: 2019-12-11 15:49:47
Local clock offset: -0.109 ms
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2019-12-11 19:10:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.69 Mbit/s
95th percentile per-packet one-way delay: 61.277 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.69 Mbit/s
95th percentile per-packet one-way delay: 61.277 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link

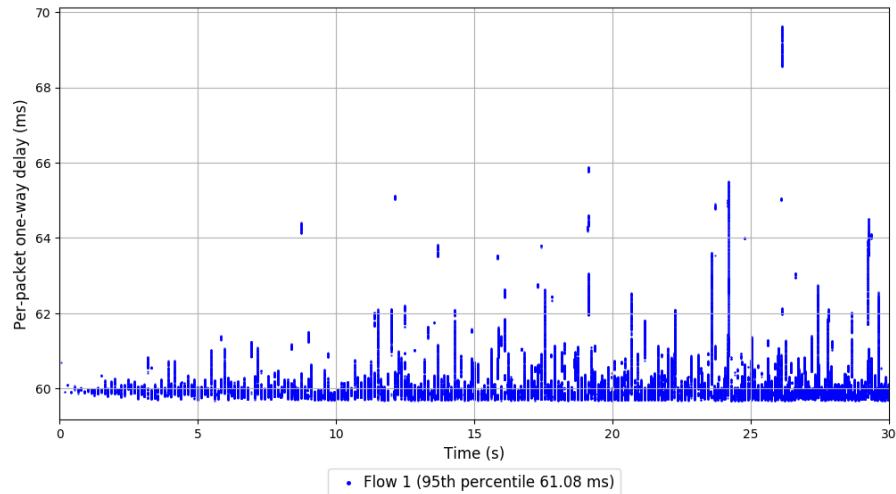
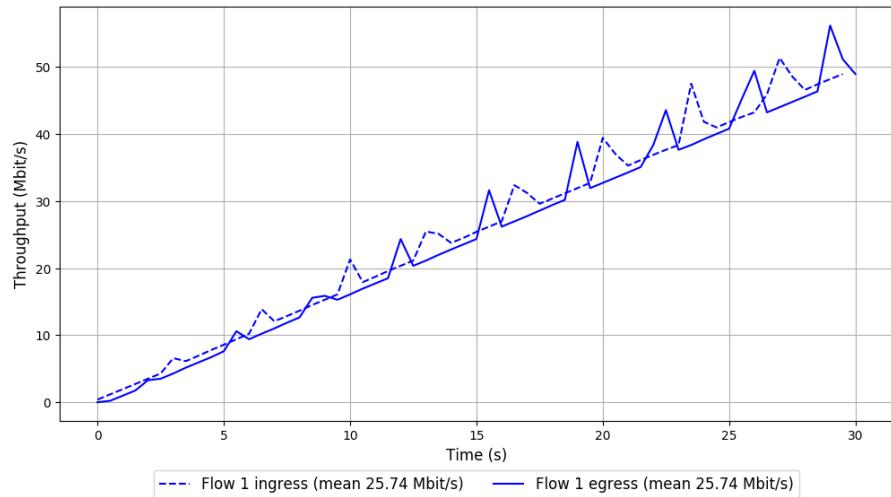


Run 4: Statistics of LEDBAT

```
Start at: 2019-12-11 16:24:26
End at: 2019-12-11 16:24:56
Local clock offset: -0.064 ms
Remote clock offset: -0.172 ms

# Below is generated by plot.py at 2019-12-11 19:10:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 25.74 Mbit/s
95th percentile per-packet one-way delay: 61.080 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 25.74 Mbit/s
95th percentile per-packet one-way delay: 61.080 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link

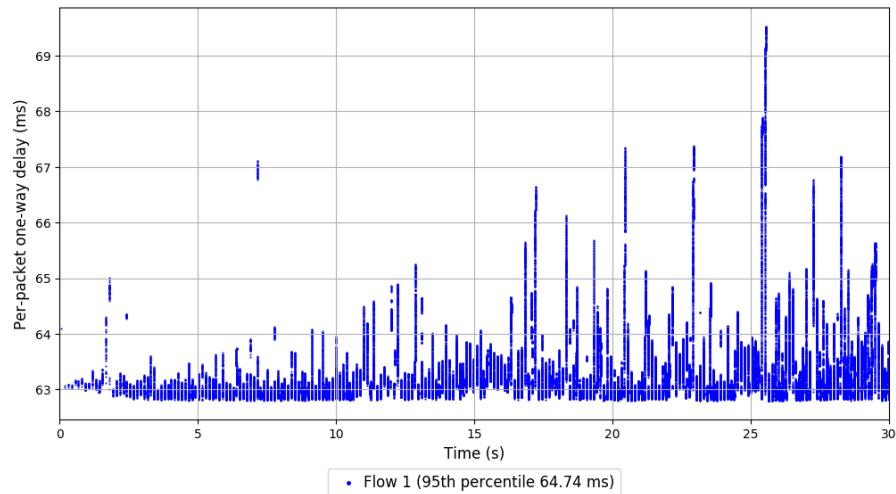
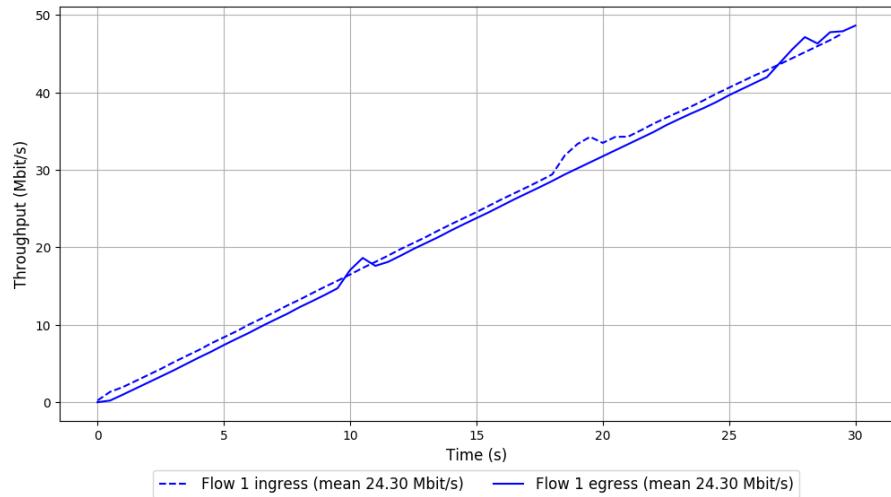


Run 5: Statistics of LEDBAT

```
Start at: 2019-12-11 16:59:47
End at: 2019-12-11 17:00:17
Local clock offset: -0.12 ms
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2019-12-11 19:10:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.30 Mbit/s
95th percentile per-packet one-way delay: 64.736 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.30 Mbit/s
95th percentile per-packet one-way delay: 64.736 ms
Loss rate: 0.00%
```

Run 5: Report of LEDBAT — Data Link

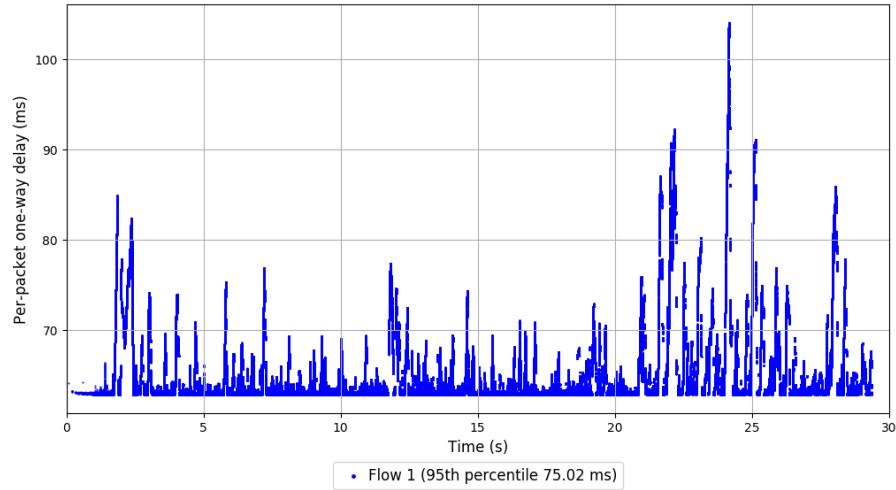
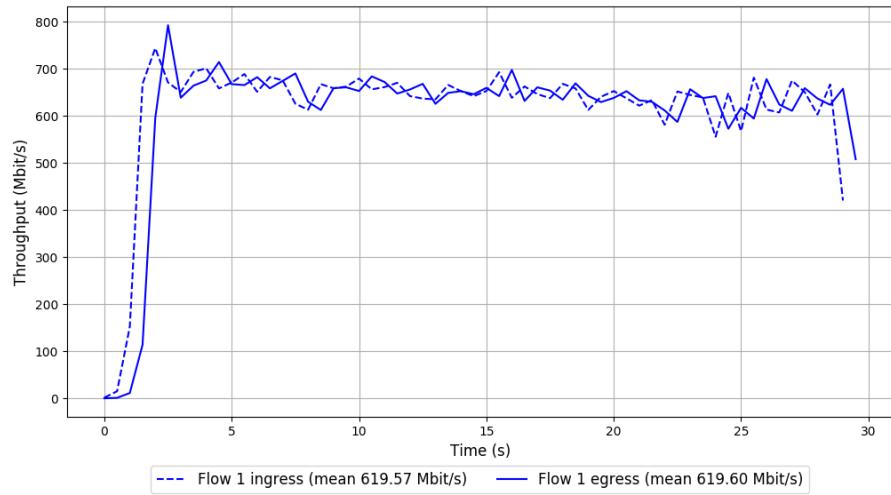


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-12-11 14:45:36
End at: 2019-12-11 14:46:06
Local clock offset: -0.017 ms
Remote clock offset: 0.042 ms

# Below is generated by plot.py at 2019-12-11 19:14:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 619.60 Mbit/s
95th percentile per-packet one-way delay: 75.022 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 619.60 Mbit/s
95th percentile per-packet one-way delay: 75.022 ms
Loss rate: 0.01%
```

Run 1: Report of Muses_DecisionTree — Data Link

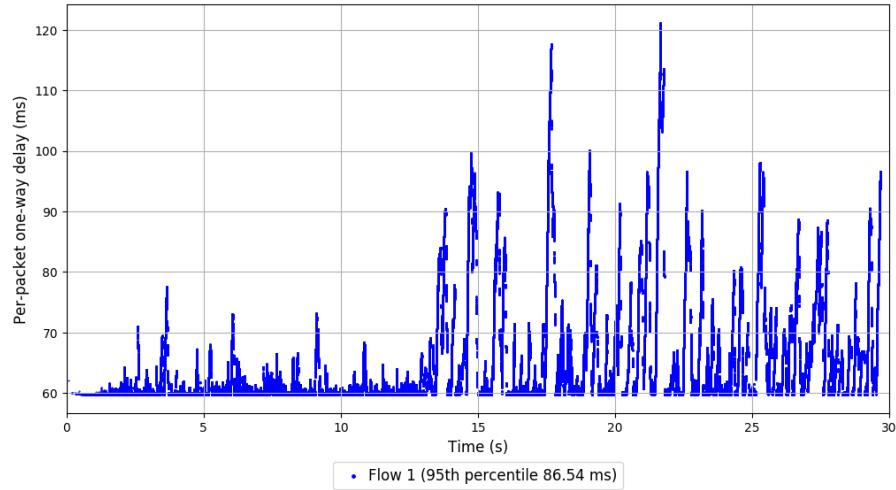
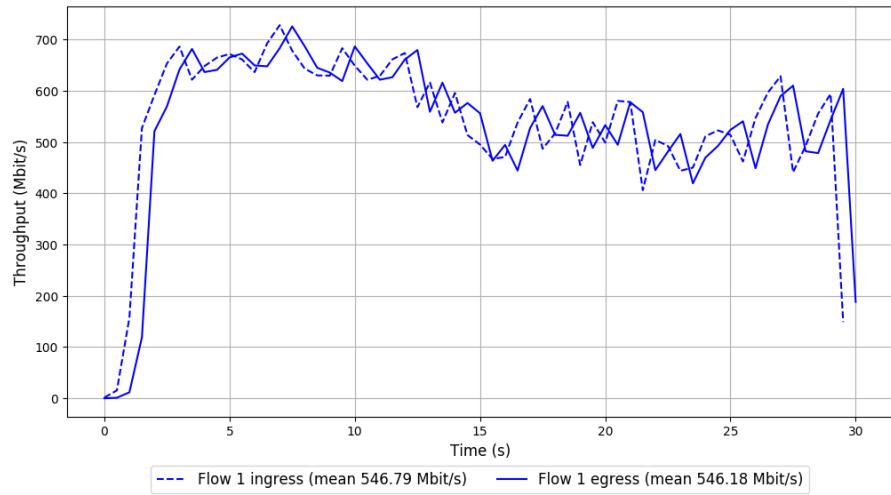


```
Run 2: Statistics of Muses\_DecisionTree

Start at: 2019-12-11 15:20:45
End at: 2019-12-11 15:21:15
Local clock offset: -0.067 ms
Remote clock offset: -0.165 ms

# Below is generated by plot.py at 2019-12-11 19:14:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 546.18 Mbit/s
95th percentile per-packet one-way delay: 86.544 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 546.18 Mbit/s
95th percentile per-packet one-way delay: 86.544 ms
Loss rate: 0.12%
```

Run 2: Report of Muses_DecisionTree — Data Link

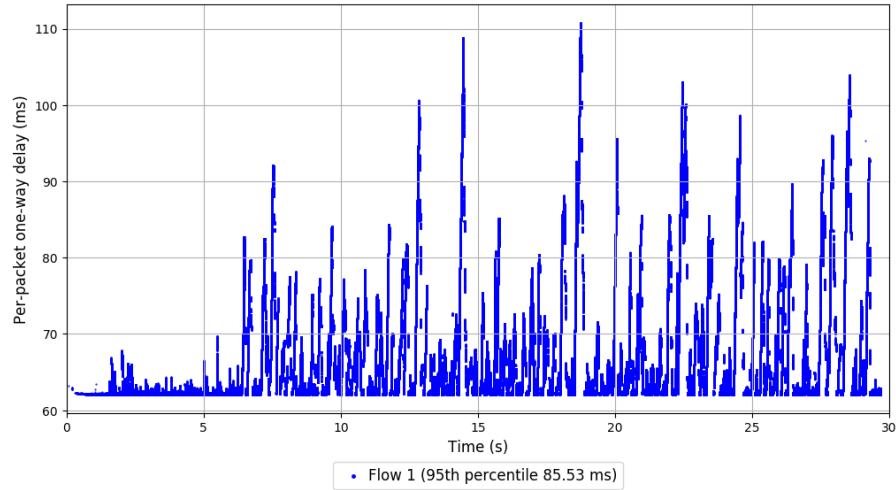
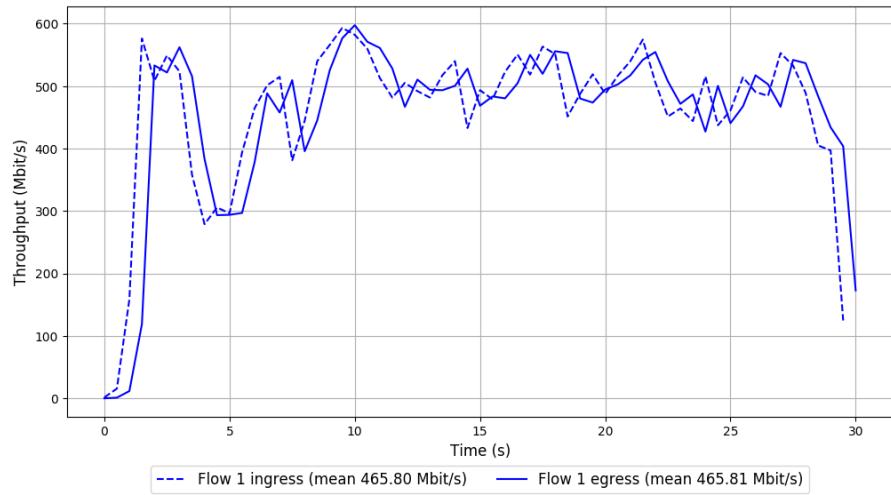


```
Run 3: Statistics of Muses\_DecisionTree

Start at: 2019-12-11 15:56:11
End at: 2019-12-11 15:56:41
Local clock offset: -0.08 ms
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2019-12-11 19:14:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 465.81 Mbit/s
95th percentile per-packet one-way delay: 85.525 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 465.81 Mbit/s
95th percentile per-packet one-way delay: 85.525 ms
Loss rate: 0.00%
```

Run 3: Report of Muses_DecisionTree — Data Link

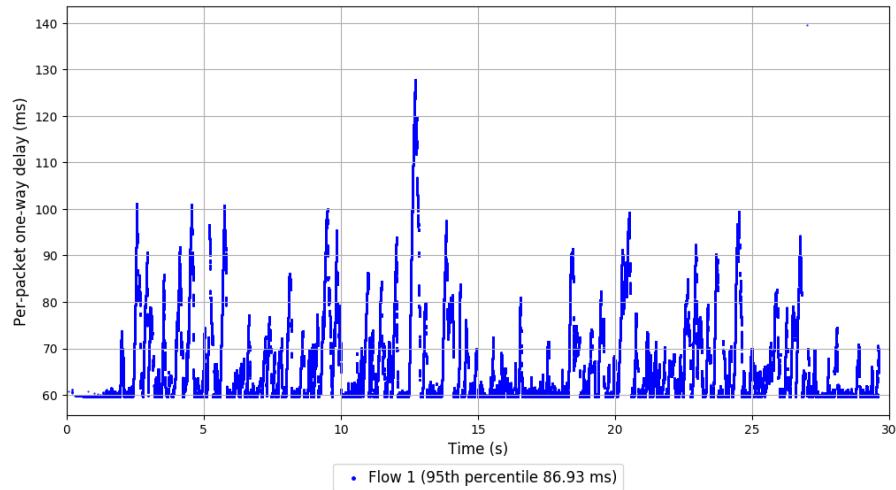
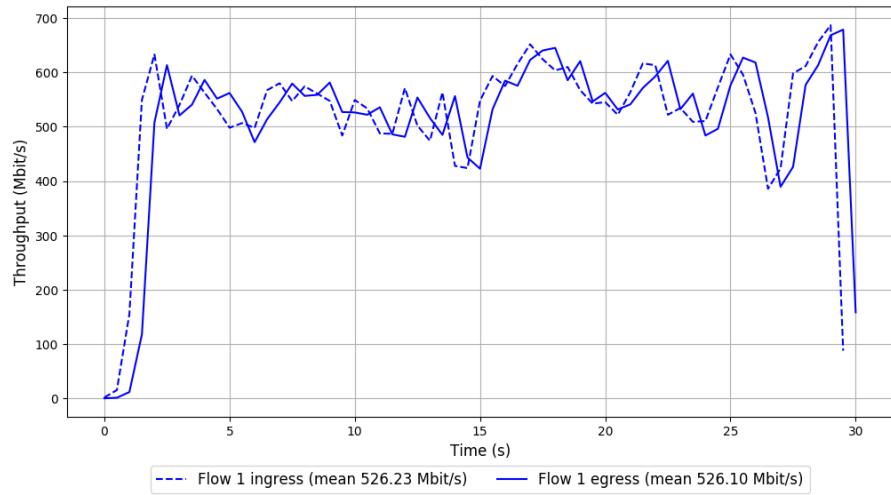


```
Run 4: Statistics of Muses\_DecisionTree

Start at: 2019-12-11 16:31:24
End at: 2019-12-11 16:31:54
Local clock offset: -0.144 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2019-12-11 19:14:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 526.10 Mbit/s
95th percentile per-packet one-way delay: 86.928 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 526.10 Mbit/s
95th percentile per-packet one-way delay: 86.928 ms
Loss rate: 0.03%
```

Run 4: Report of Muses_DecisionTree — Data Link

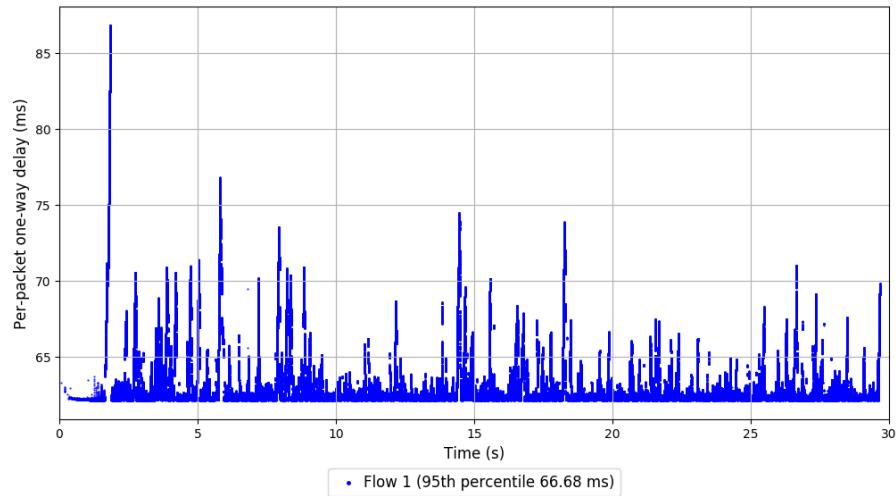
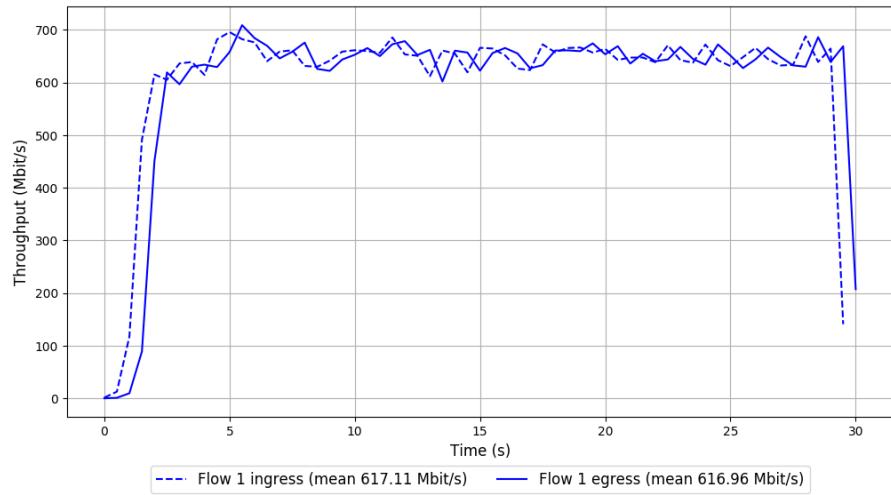


```
Run 5: Statistics of Muses\_DecisionTree

Start at: 2019-12-11 17:06:41
End at: 2019-12-11 17:07:11
Local clock offset: -0.084 ms
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2019-12-11 19:20:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 616.96 Mbit/s
95th percentile per-packet one-way delay: 66.682 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 616.96 Mbit/s
95th percentile per-packet one-way delay: 66.682 ms
Loss rate: 0.03%
```

Run 5: Report of Muses_DecisionTree — Data Link

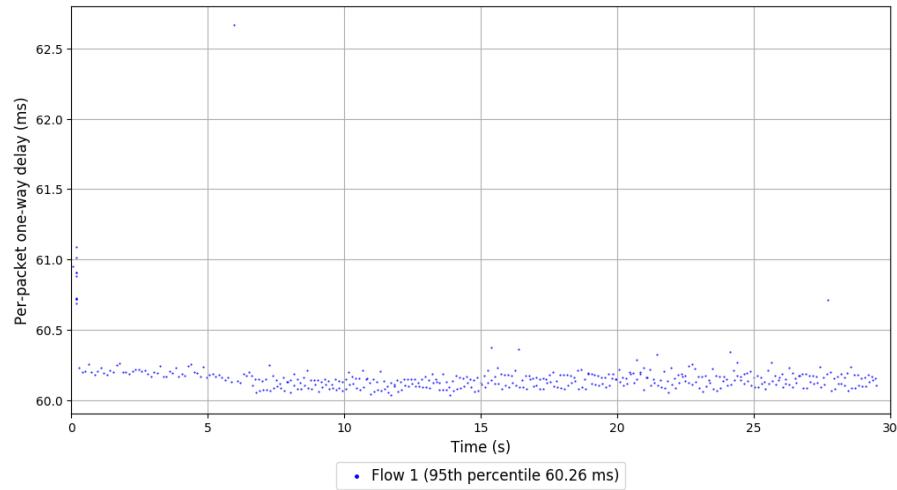
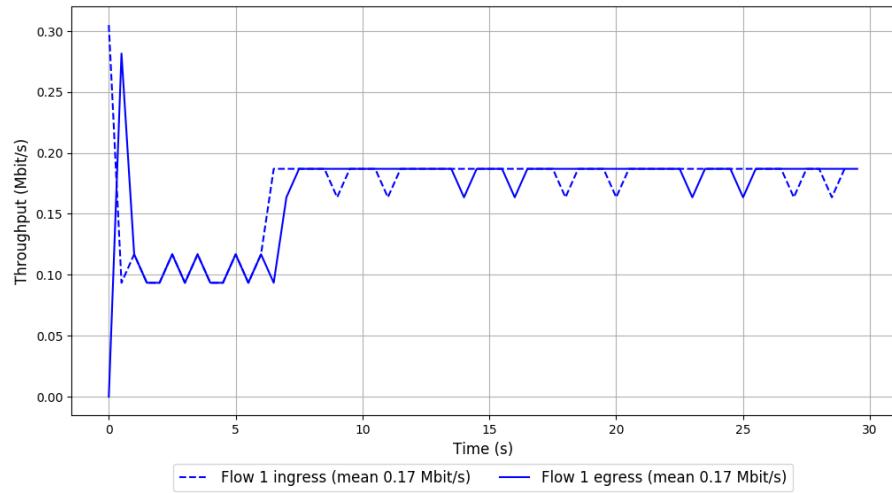


```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-12-11 14:43:20
End at: 2019-12-11 14:43:50
Local clock offset: -0.076 ms
Remote clock offset: 0.026 ms

# Below is generated by plot.py at 2019-12-11 19:20:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 60.256 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 60.256 ms
Loss rate: 0.00%
```

Run 1: Report of Muses_DecisionTreeH0 — Data Link

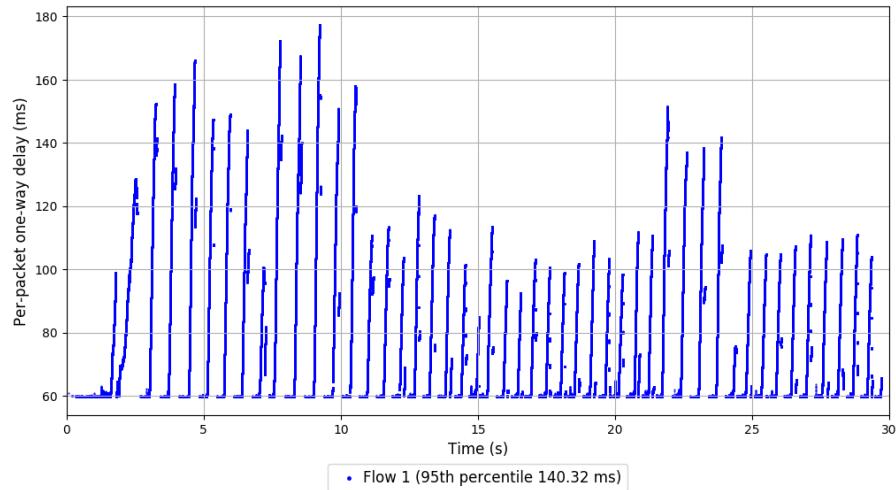
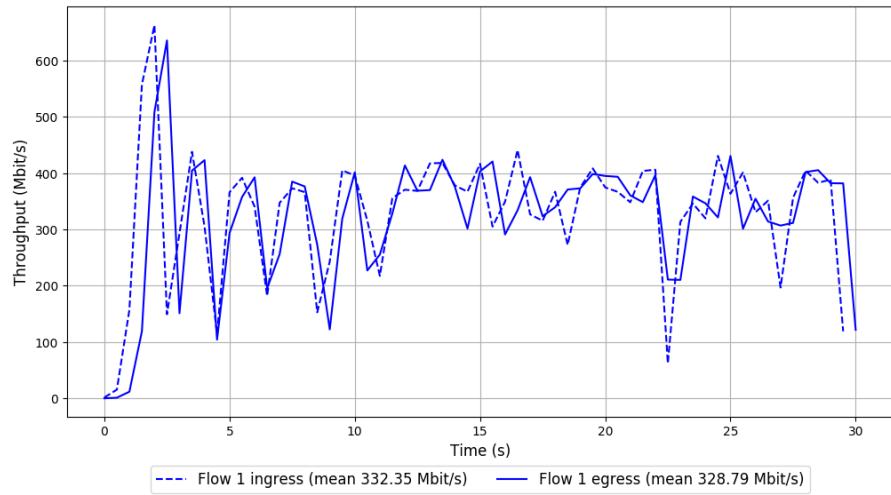


```
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2019-12-11 15:18:13
End at: 2019-12-11 15:18:43
Local clock offset: -0.05 ms
Remote clock offset: -0.157 ms

# Below is generated by plot.py at 2019-12-11 19:20:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 328.79 Mbit/s
95th percentile per-packet one-way delay: 140.324 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 328.79 Mbit/s
95th percentile per-packet one-way delay: 140.324 ms
Loss rate: 1.07%
```

Run 2: Report of Muses_DecisionTreeH0 — Data Link

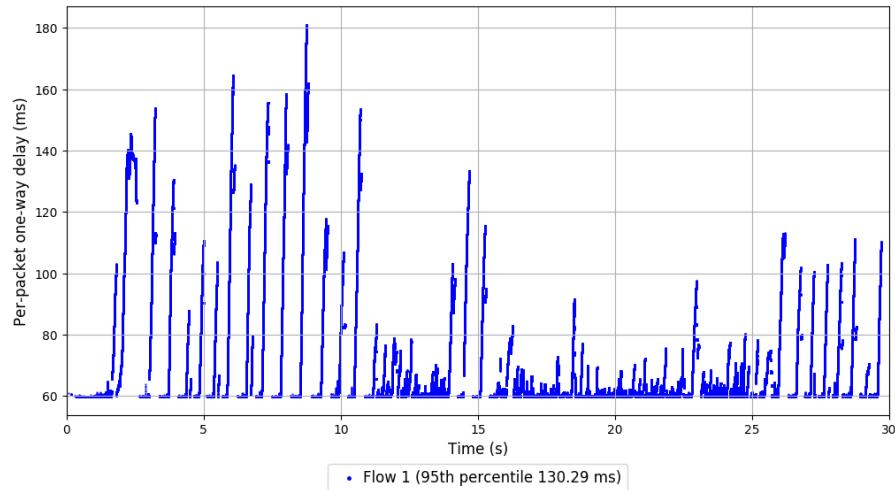
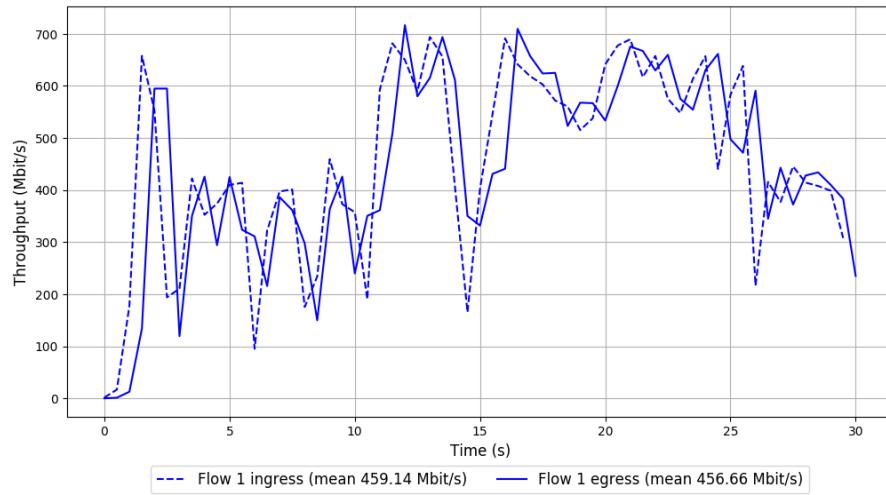


```
Run 3: Statistics of Muses\_DecisionTreeH0

Start at: 2019-12-11 15:53:33
End at: 2019-12-11 15:54:03
Local clock offset: -0.064 ms
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2019-12-11 19:20:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 456.66 Mbit/s
95th percentile per-packet one-way delay: 130.290 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 456.66 Mbit/s
95th percentile per-packet one-way delay: 130.290 ms
Loss rate: 0.54%
```

Run 3: Report of Muses_DecisionTreeH0 — Data Link

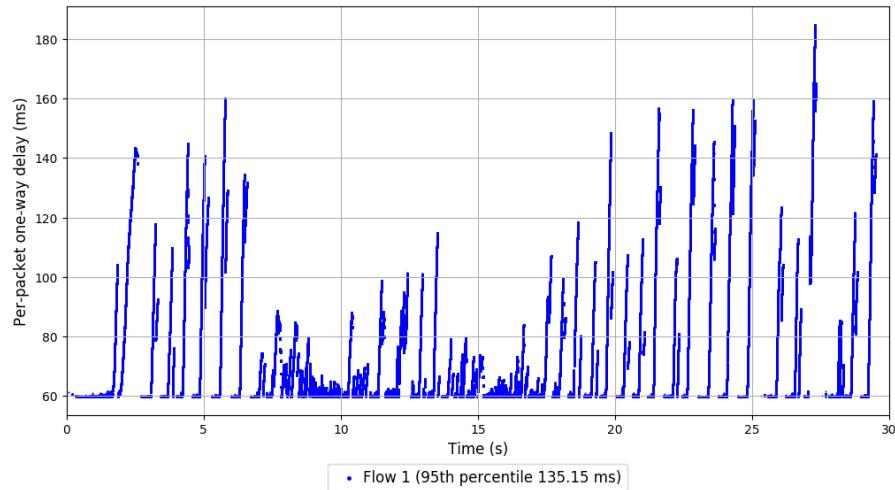
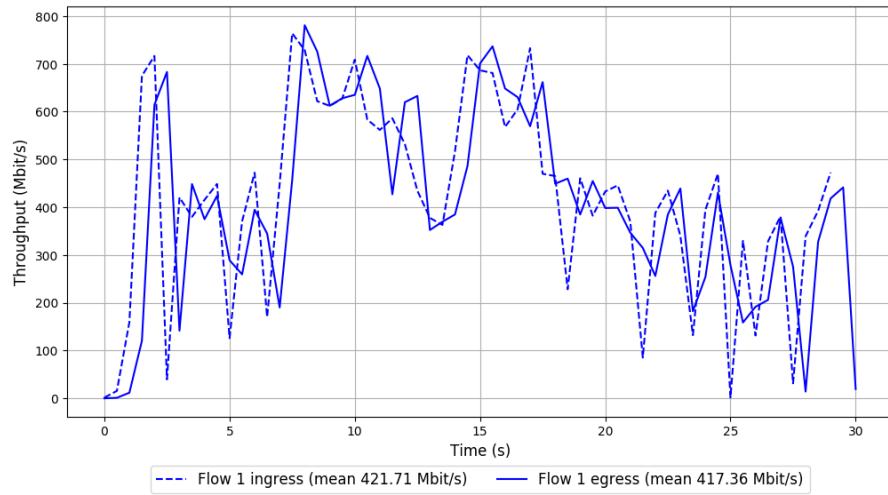


```
Run 4: Statistics of Muses\_DecisionTreeH0

Start at: 2019-12-11 16:28:48
End at: 2019-12-11 16:29:18
Local clock offset: -0.113 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-12-11 19:20:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 417.36 Mbit/s
95th percentile per-packet one-way delay: 135.145 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 417.36 Mbit/s
95th percentile per-packet one-way delay: 135.145 ms
Loss rate: 0.77%
```

Run 4: Report of Muses_DecisionTreeH0 — Data Link

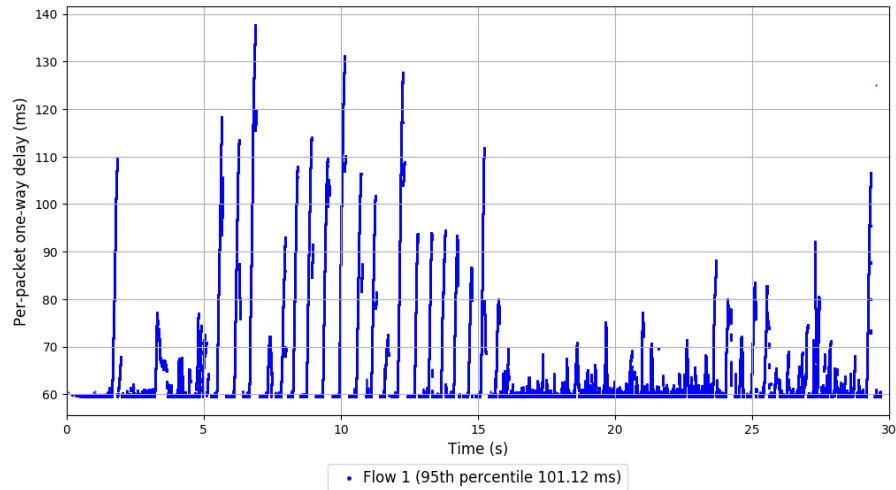
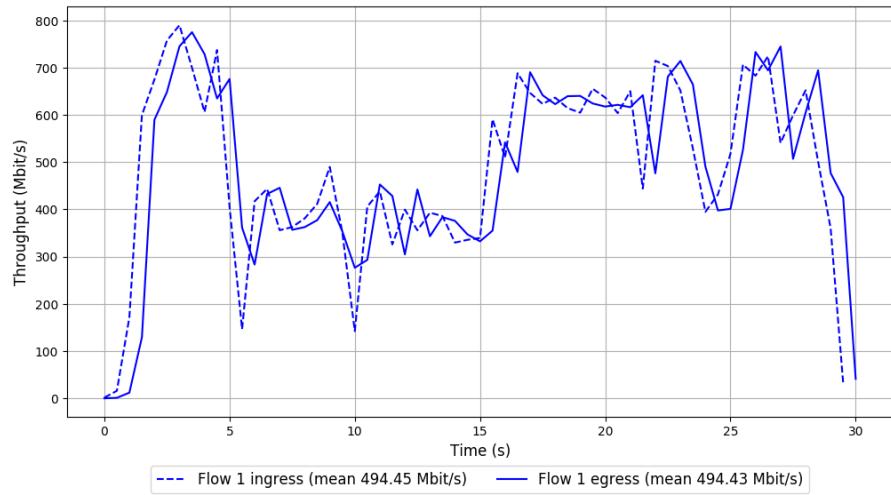


```
Run 5: Statistics of Muses\_DecisionTreeH0

Start at: 2019-12-11 17:04:01
End at: 2019-12-11 17:04:31
Local clock offset: -0.104 ms
Remote clock offset: -0.159 ms

# Below is generated by plot.py at 2019-12-11 19:21:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 494.43 Mbit/s
95th percentile per-packet one-way delay: 101.122 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 494.43 Mbit/s
95th percentile per-packet one-way delay: 101.122 ms
Loss rate: 0.01%
```

Run 5: Report of Muses_DecisionTreeH0 — Data Link

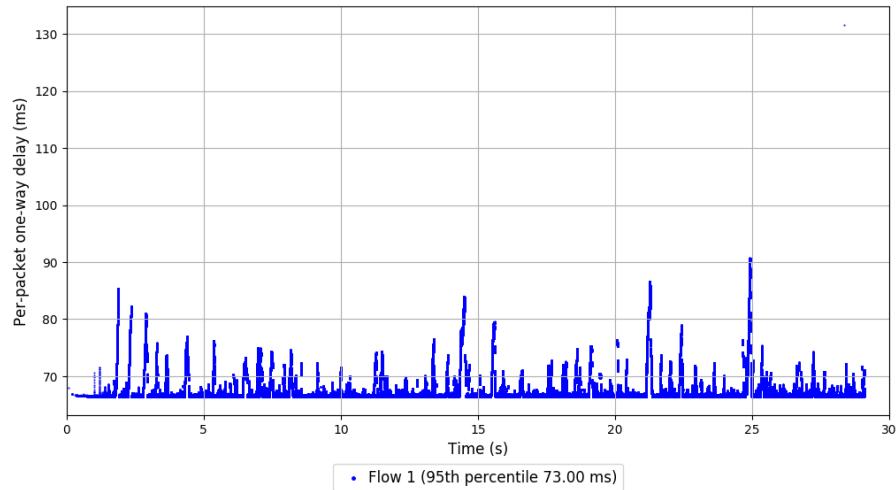
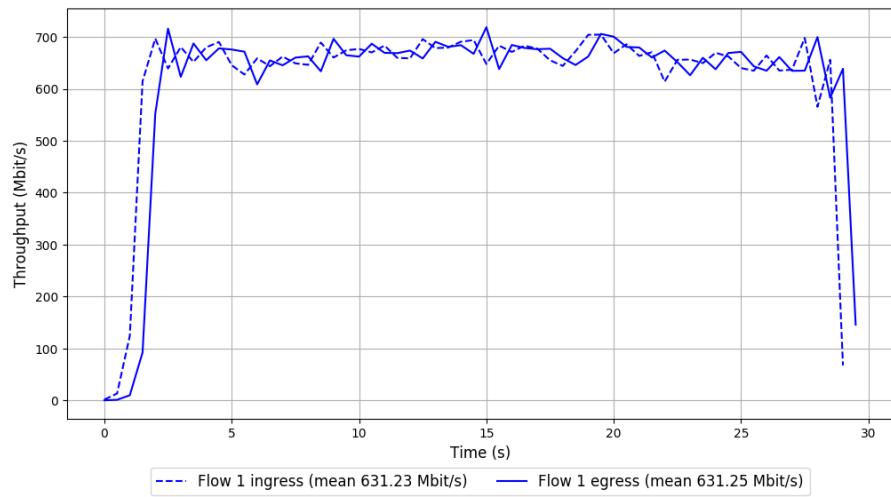


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-12-11 14:31:19
End at: 2019-12-11 14:31:49
Local clock offset: -0.059 ms
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2019-12-11 19:25:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 631.25 Mbit/s
95th percentile per-packet one-way delay: 73.000 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 631.25 Mbit/s
95th percentile per-packet one-way delay: 73.000 ms
Loss rate: 0.02%
```

Run 1: Report of Muses_DecisionTreeR0 — Data Link

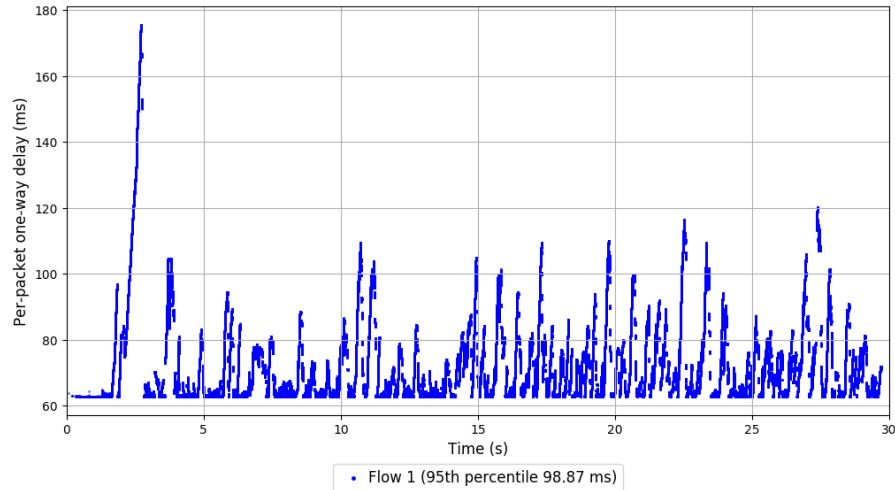
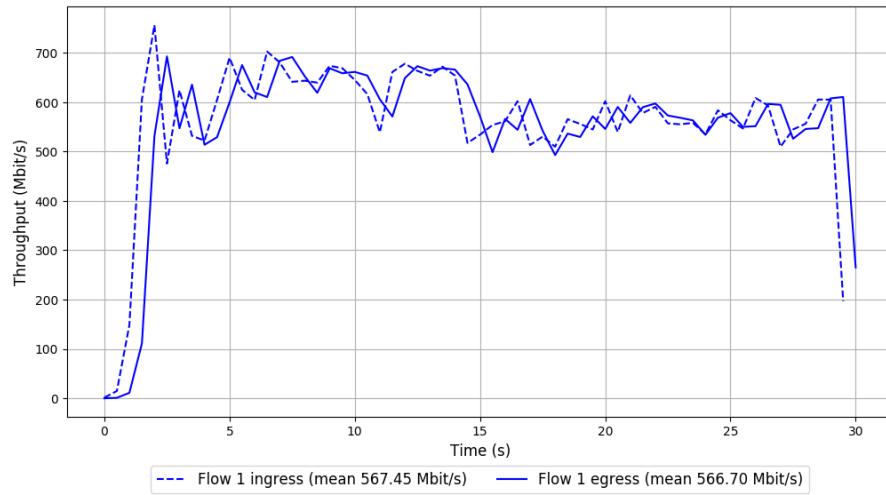


```
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2019-12-11 15:06:20
End at: 2019-12-11 15:06:50
Local clock offset: 0.017 ms
Remote clock offset: -0.339 ms

# Below is generated by plot.py at 2019-12-11 19:25:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 566.70 Mbit/s
95th percentile per-packet one-way delay: 98.866 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 566.70 Mbit/s
95th percentile per-packet one-way delay: 98.866 ms
Loss rate: 0.14%
```

Run 2: Report of Muses_DecisionTreeR0 — Data Link

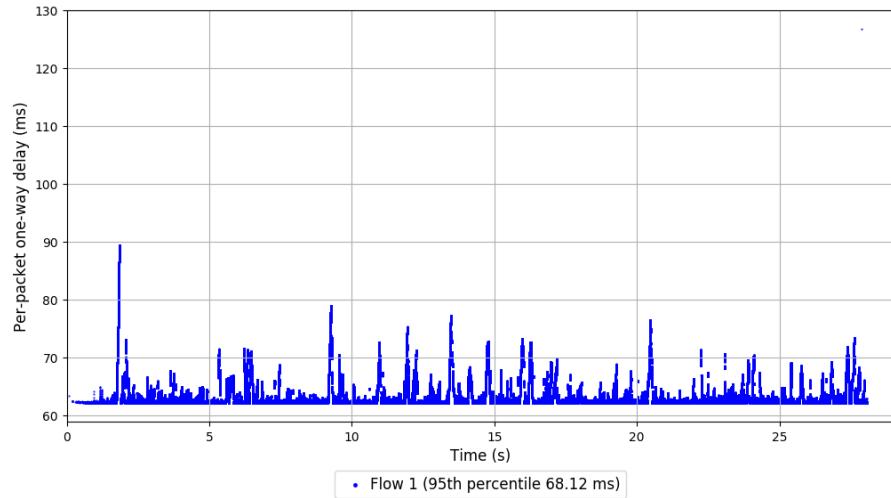
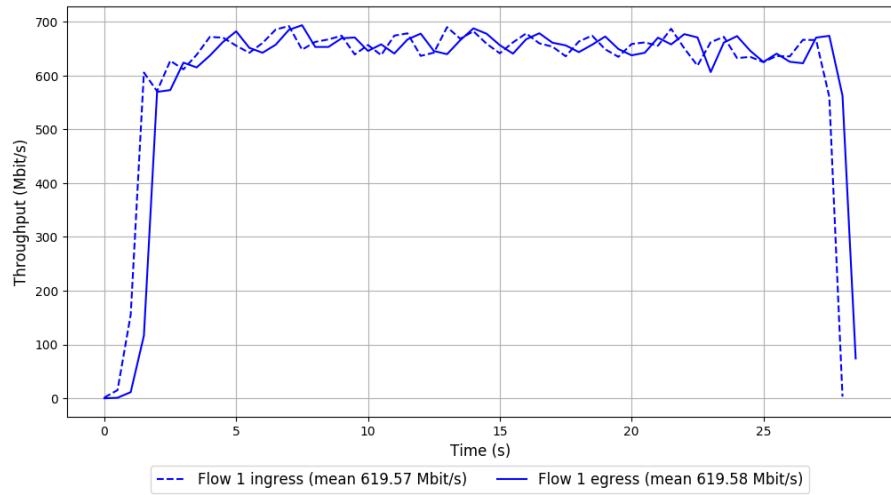


```
Run 3: Statistics of Muses\_DecisionTreeR0

Start at: 2019-12-11 15:41:40
End at: 2019-12-11 15:42:10
Local clock offset: -0.098 ms
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2019-12-11 19:25:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 619.58 Mbit/s
95th percentile per-packet one-way delay: 68.117 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 619.58 Mbit/s
95th percentile per-packet one-way delay: 68.117 ms
Loss rate: 0.01%
```

Run 3: Report of Muses_DecisionTreeR0 — Data Link

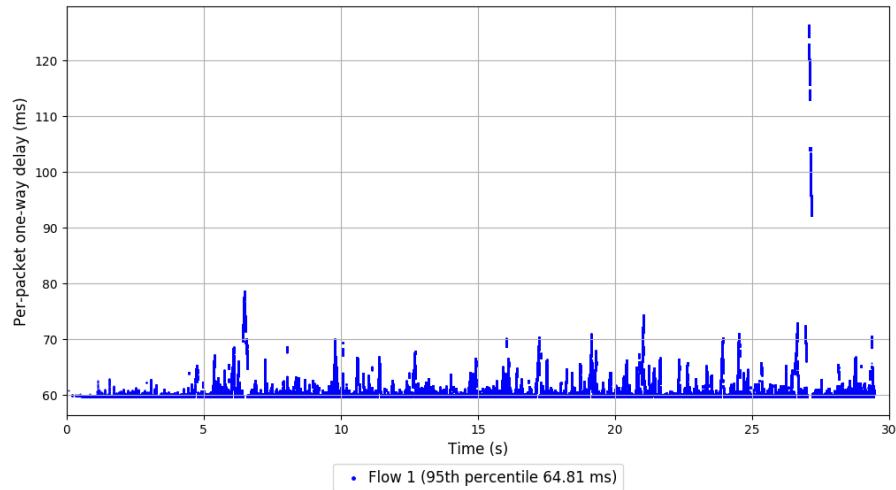
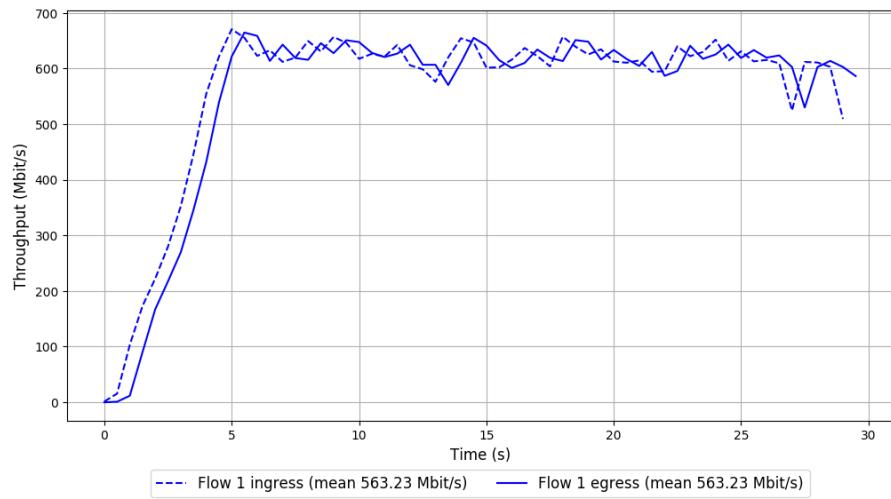


```
Run 4: Statistics of Muses\_DecisionTreeR0

Start at: 2019-12-11 16:17:02
End at: 2019-12-11 16:17:32
Local clock offset: -0.043 ms
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2019-12-11 19:26:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 563.23 Mbit/s
95th percentile per-packet one-way delay: 64.807 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 563.23 Mbit/s
95th percentile per-packet one-way delay: 64.807 ms
Loss rate: 0.00%
```

Run 4: Report of Muses_DecisionTreeR0 — Data Link

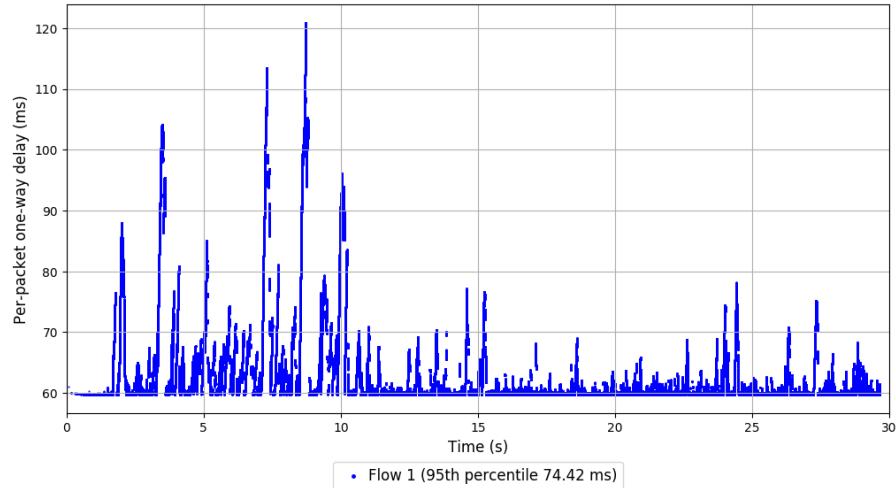
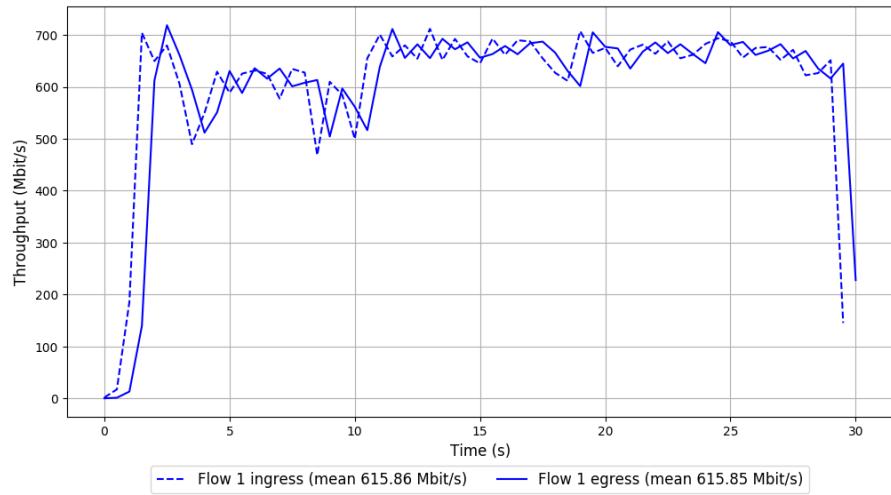


```
Run 5: Statistics of Muses\_DecisionTreeR0

Start at: 2019-12-11 16:52:16
End at: 2019-12-11 16:52:46
Local clock offset: -0.186 ms
Remote clock offset: 0.073 ms

# Below is generated by plot.py at 2019-12-11 19:30:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 615.85 Mbit/s
95th percentile per-packet one-way delay: 74.415 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 615.85 Mbit/s
95th percentile per-packet one-way delay: 74.415 ms
Loss rate: 0.00%
```

Run 5: Report of Muses_DecisionTreeR0 — Data Link

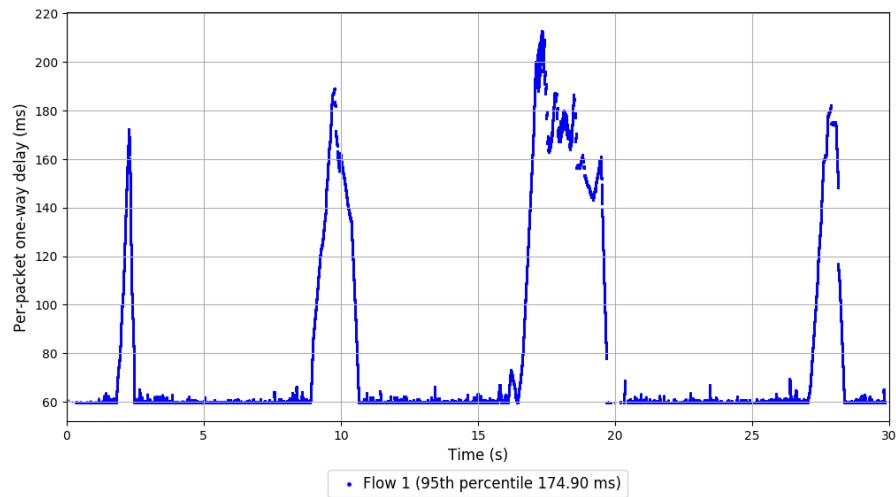
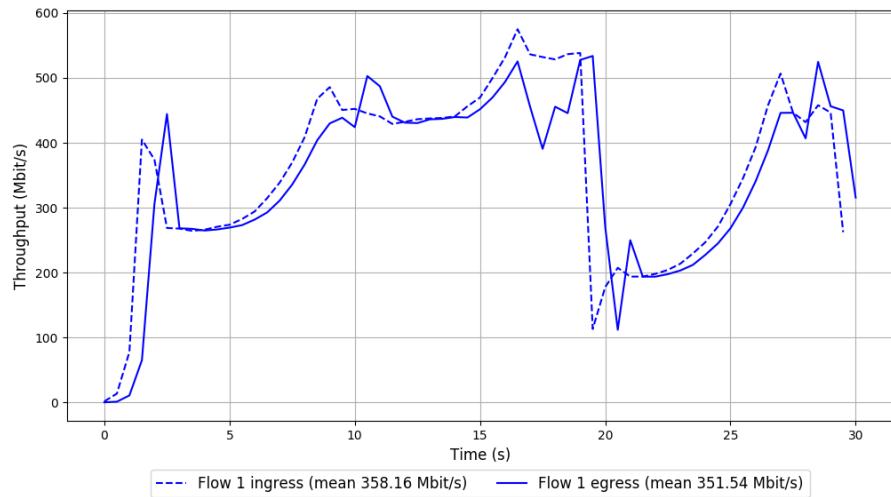


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-12-11 14:48:43
End at: 2019-12-11 14:49:13
Local clock offset: -0.027 ms
Remote clock offset: -0.166 ms

# Below is generated by plot.py at 2019-12-11 19:32:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 351.54 Mbit/s
95th percentile per-packet one-way delay: 174.899 ms
Loss rate: 1.85%
-- Flow 1:
Average throughput: 351.54 Mbit/s
95th percentile per-packet one-way delay: 174.899 ms
Loss rate: 1.85%
```

Run 1: Report of PCC-Allegro — Data Link

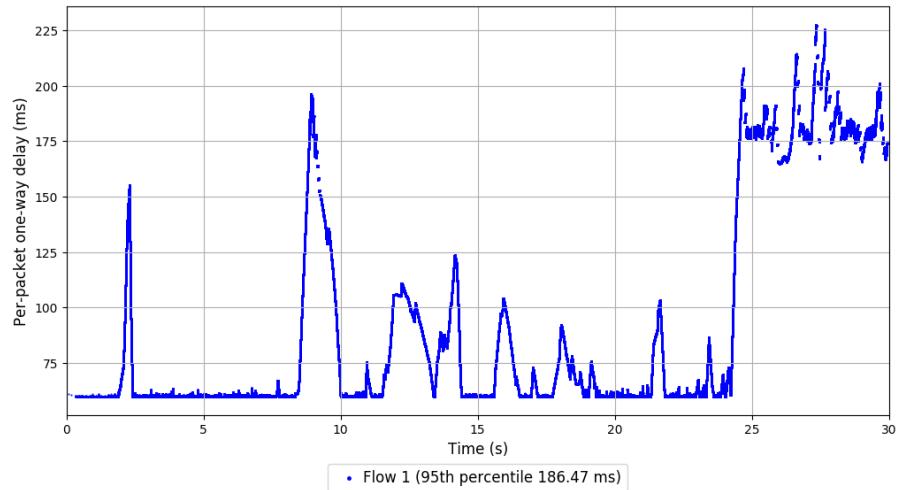
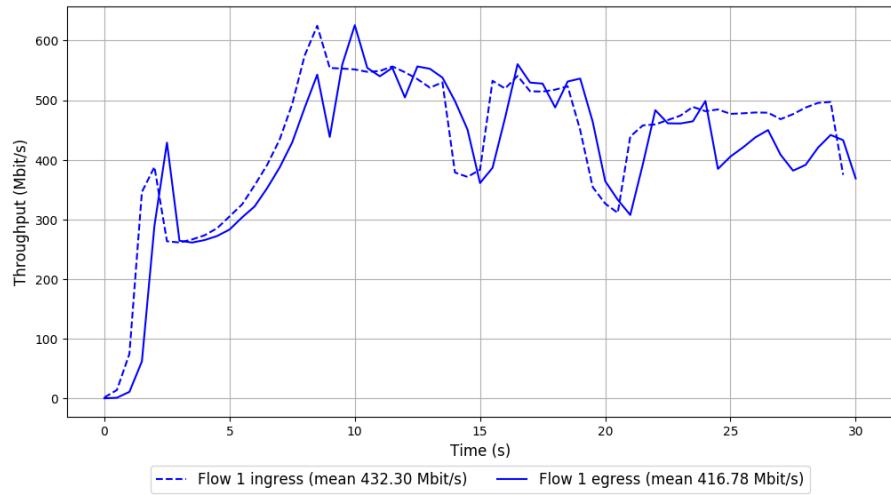


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-12-11 15:23:47
End at: 2019-12-11 15:24:17
Local clock offset: -0.088 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-12-11 19:37:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 416.78 Mbit/s
95th percentile per-packet one-way delay: 186.468 ms
Loss rate: 3.59%
-- Flow 1:
Average throughput: 416.78 Mbit/s
95th percentile per-packet one-way delay: 186.468 ms
Loss rate: 3.59%
```

Run 2: Report of PCC-Allegro — Data Link

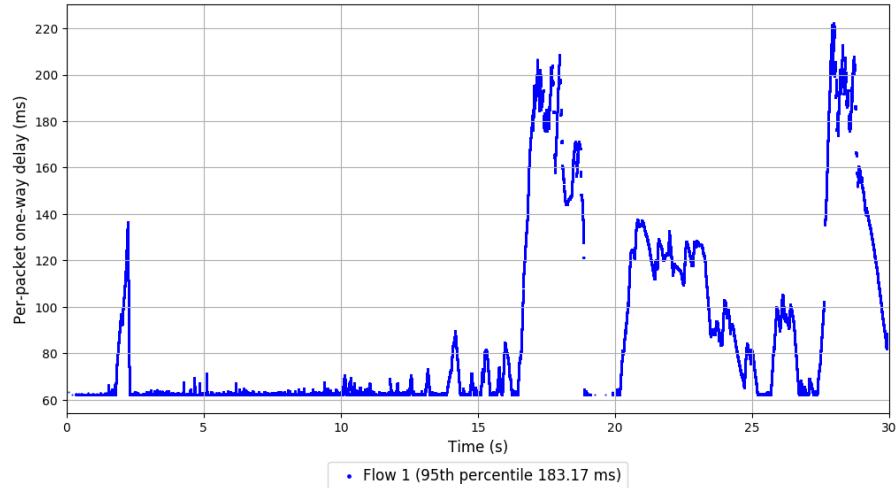
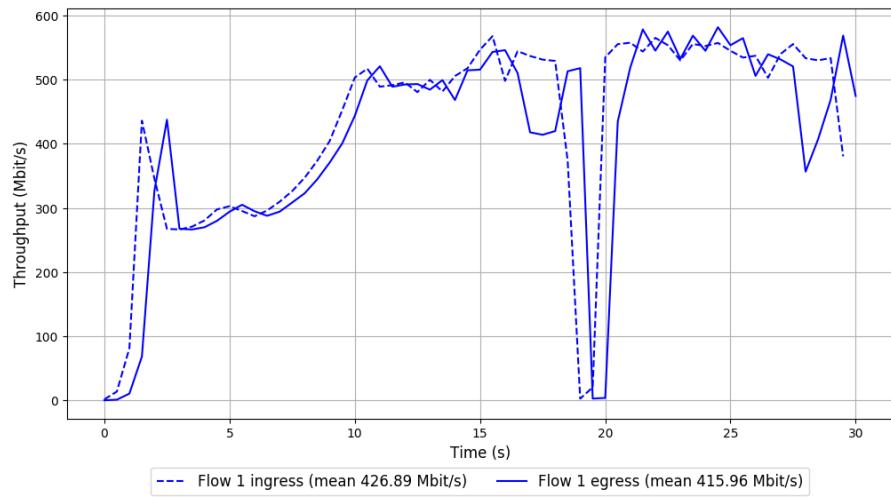


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-12-11 15:59:11
End at: 2019-12-11 15:59:41
Local clock offset: -0.027 ms
Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2019-12-11 19:37:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 415.96 Mbit/s
95th percentile per-packet one-way delay: 183.166 ms
Loss rate: 2.57%
-- Flow 1:
Average throughput: 415.96 Mbit/s
95th percentile per-packet one-way delay: 183.166 ms
Loss rate: 2.57%
```

Run 3: Report of PCC-Allegro — Data Link

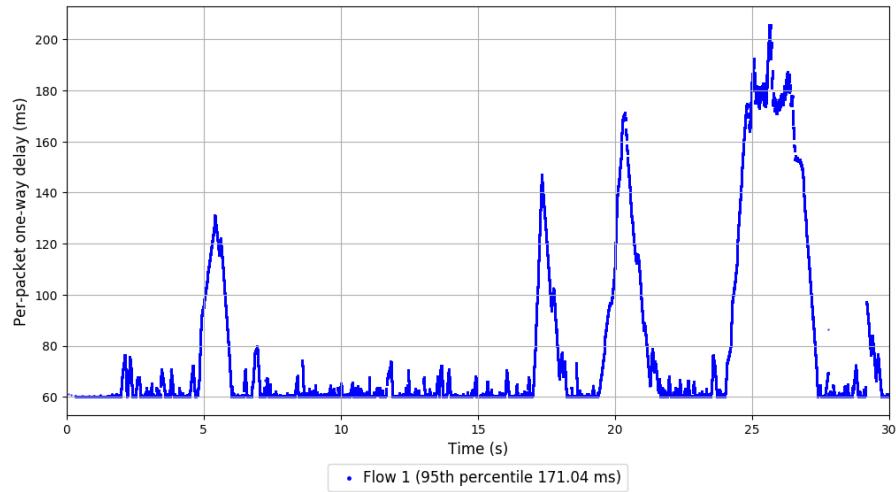
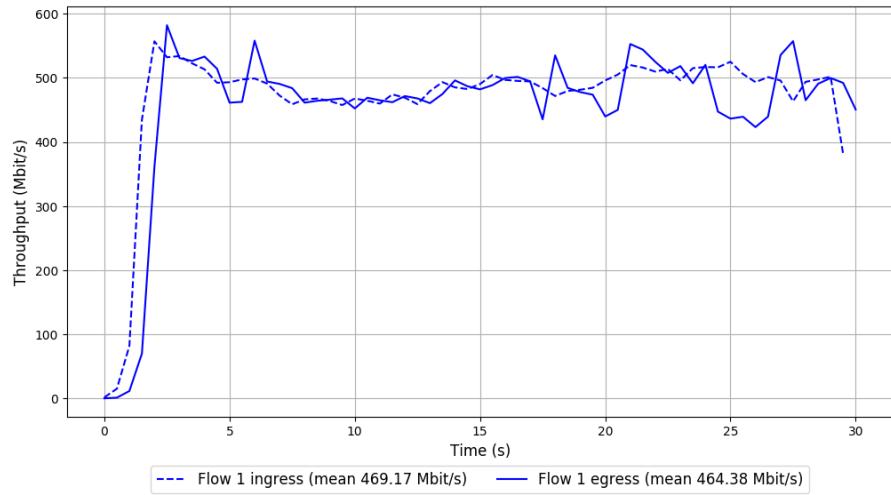


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-12-11 16:34:28
End at: 2019-12-11 16:34:58
Local clock offset: -0.102 ms
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2019-12-11 19:43:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 464.38 Mbit/s
95th percentile per-packet one-way delay: 171.045 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 464.38 Mbit/s
95th percentile per-packet one-way delay: 171.045 ms
Loss rate: 1.02%
```

Run 4: Report of PCC-Allegro — Data Link

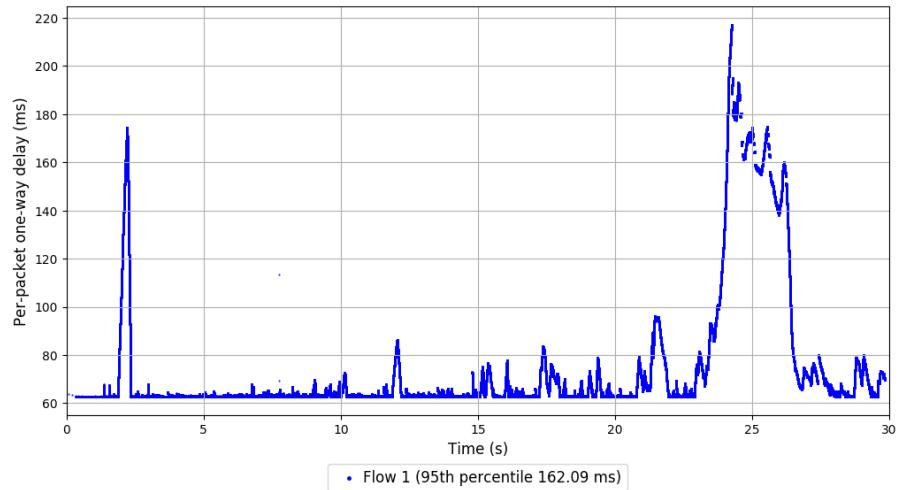
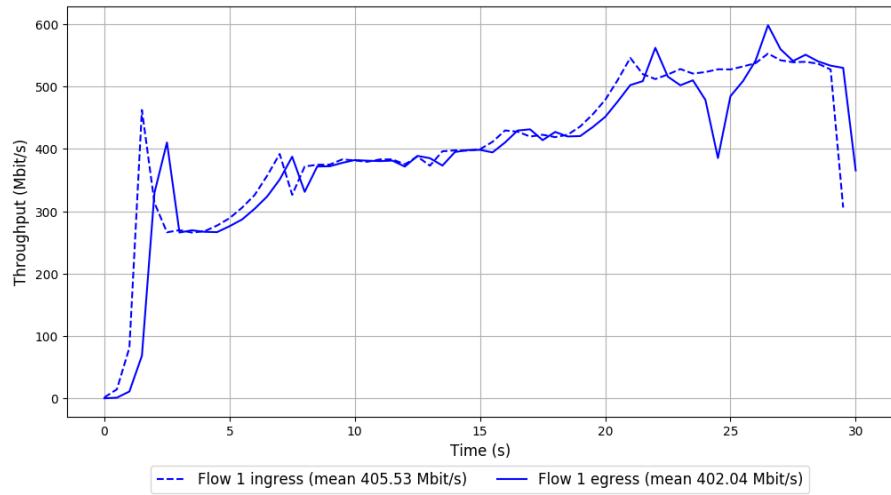


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-12-11 17:09:51
End at: 2019-12-11 17:10:21
Local clock offset: -0.072 ms
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2019-12-11 19:43:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 402.04 Mbit/s
95th percentile per-packet one-way delay: 162.090 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 402.04 Mbit/s
95th percentile per-packet one-way delay: 162.090 ms
Loss rate: 0.87%
```

Run 5: Report of PCC-Allegro — Data Link

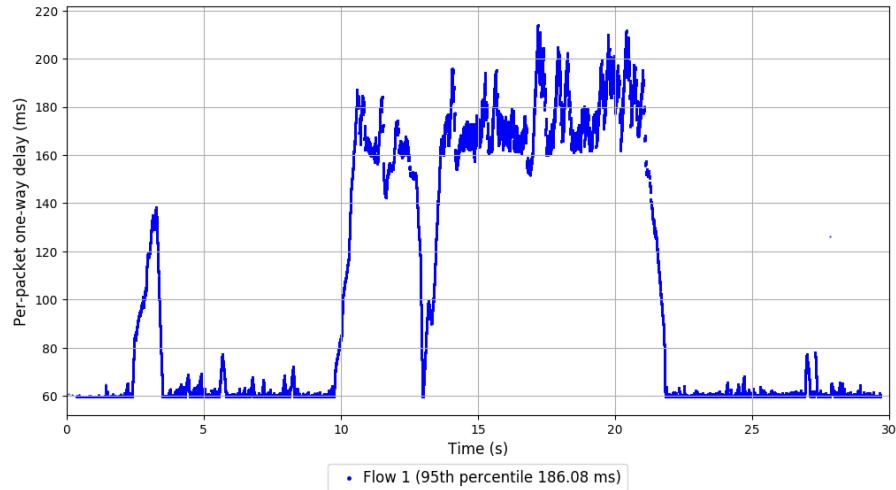
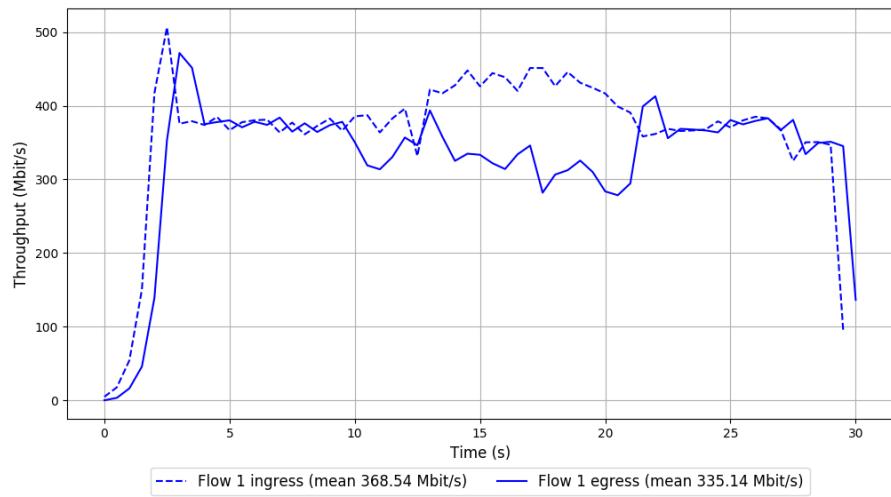


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-12-11 14:41:41
End at: 2019-12-11 14:42:11
Local clock offset: -0.042 ms
Remote clock offset: -0.186 ms

# Below is generated by plot.py at 2019-12-11 19:43:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 335.14 Mbit/s
95th percentile per-packet one-way delay: 186.081 ms
Loss rate: 9.07%
-- Flow 1:
Average throughput: 335.14 Mbit/s
95th percentile per-packet one-way delay: 186.081 ms
Loss rate: 9.07%
```

Run 1: Report of PCC-Expr — Data Link

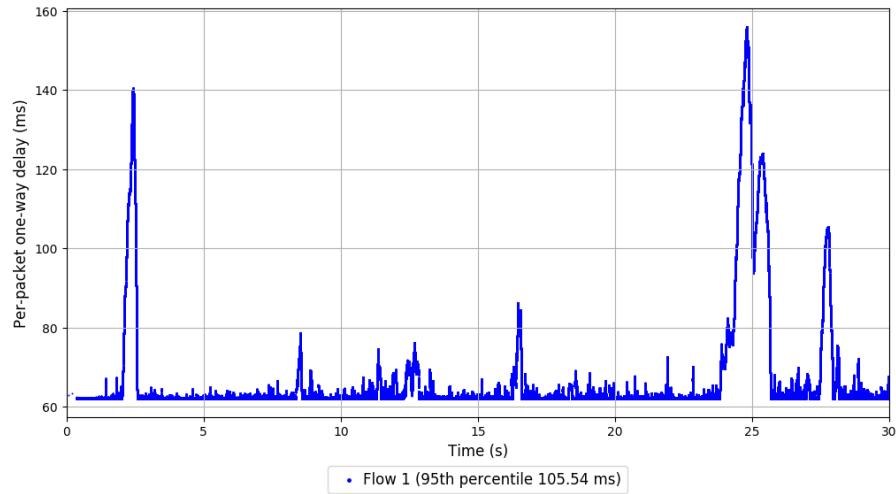
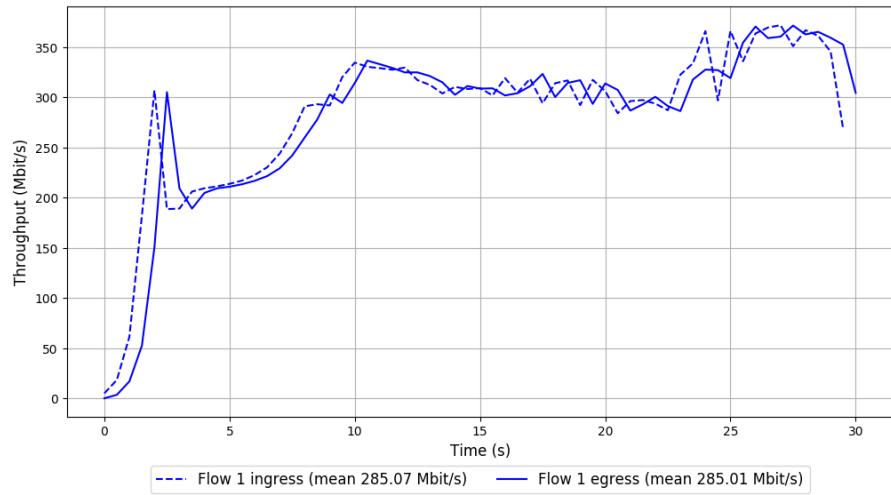


Run 2: Statistics of PCC-Expr

```
Start at: 2019-12-11 15:16:40
End at: 2019-12-11 15:17:10
Local clock offset: -0.046 ms
Remote clock offset: 0.036 ms

# Below is generated by plot.py at 2019-12-11 19:43:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 285.01 Mbit/s
95th percentile per-packet one-way delay: 105.544 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 285.01 Mbit/s
95th percentile per-packet one-way delay: 105.544 ms
Loss rate: 0.03%
```

Run 2: Report of PCC-Expr — Data Link

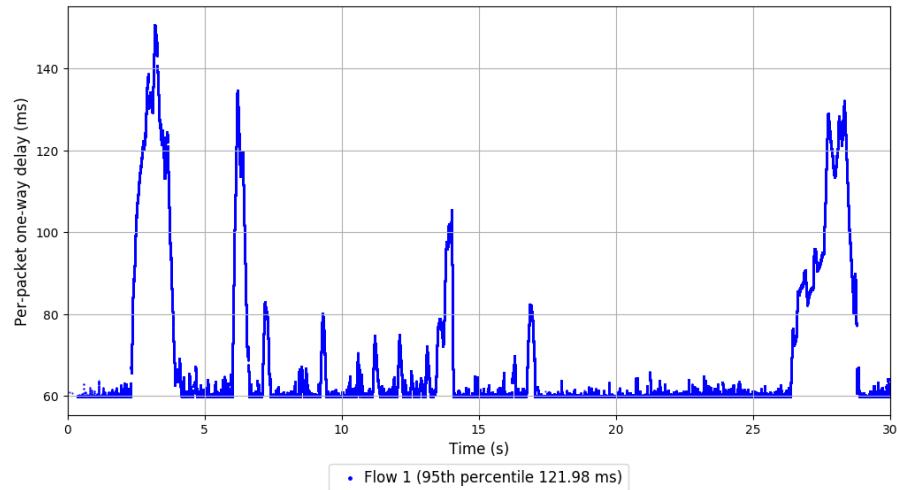
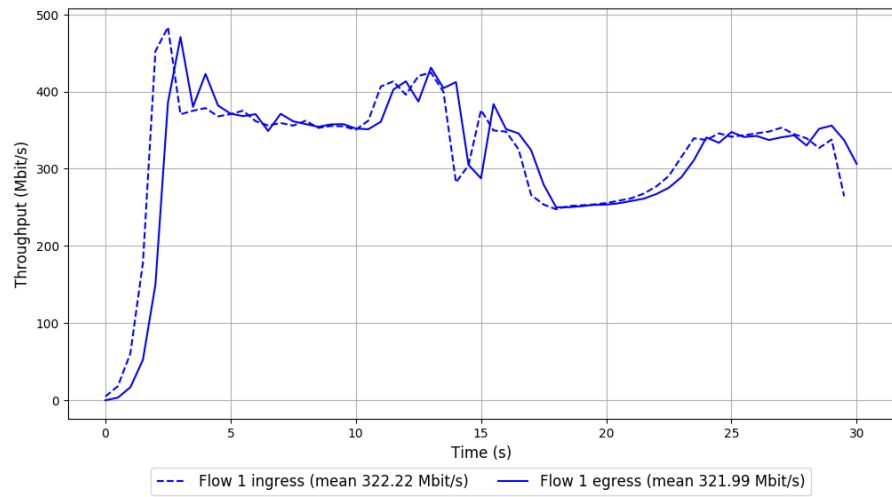


Run 3: Statistics of PCC-Expr

```
Start at: 2019-12-11 15:51:57
End at: 2019-12-11 15:52:27
Local clock offset: -0.063 ms
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2019-12-11 19:43:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 321.99 Mbit/s
95th percentile per-packet one-way delay: 121.976 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 321.99 Mbit/s
95th percentile per-packet one-way delay: 121.976 ms
Loss rate: 0.07%
```

Run 3: Report of PCC-Expr — Data Link

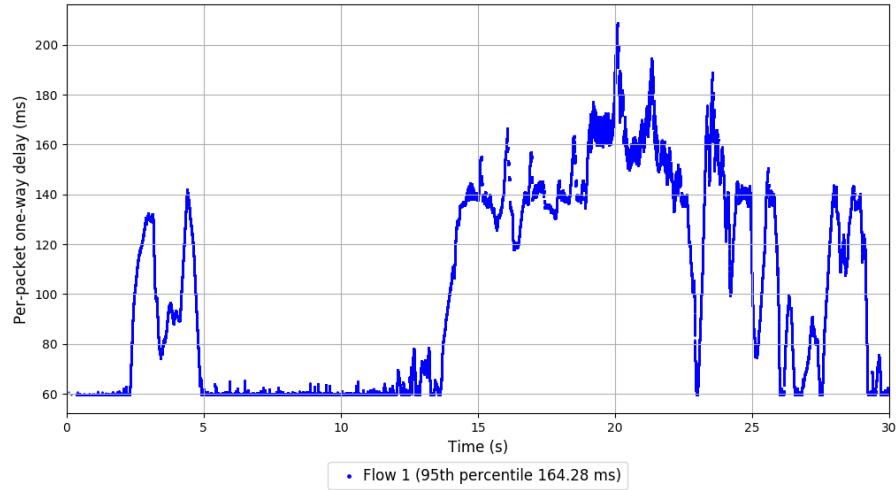
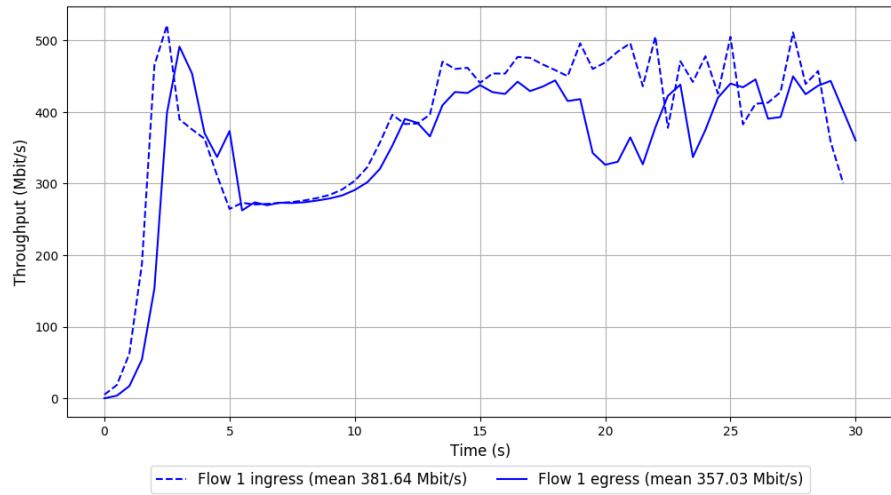


Run 4: Statistics of PCC-Expr

```
Start at: 2019-12-11 16:27:08
End at: 2019-12-11 16:27:38
Local clock offset: -0.077 ms
Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2019-12-11 19:47:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 357.03 Mbit/s
95th percentile per-packet one-way delay: 164.283 ms
Loss rate: 6.45%
-- Flow 1:
Average throughput: 357.03 Mbit/s
95th percentile per-packet one-way delay: 164.283 ms
Loss rate: 6.45%
```

Run 4: Report of PCC-Expr — Data Link

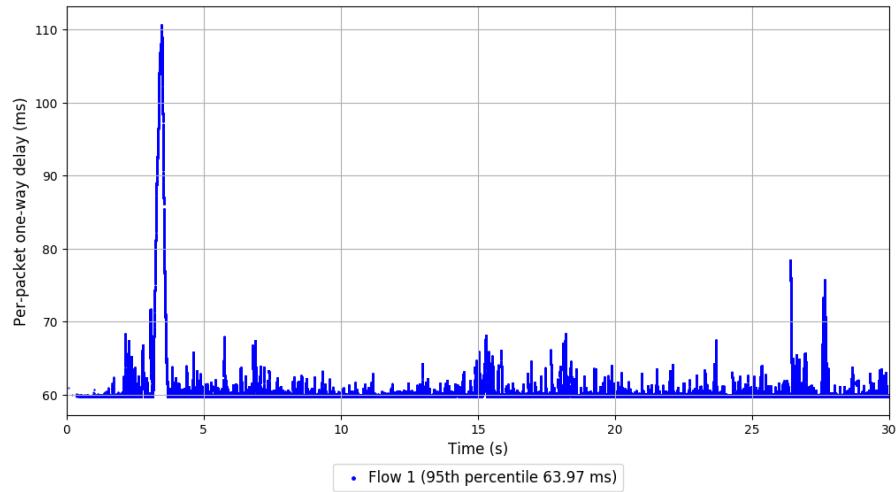
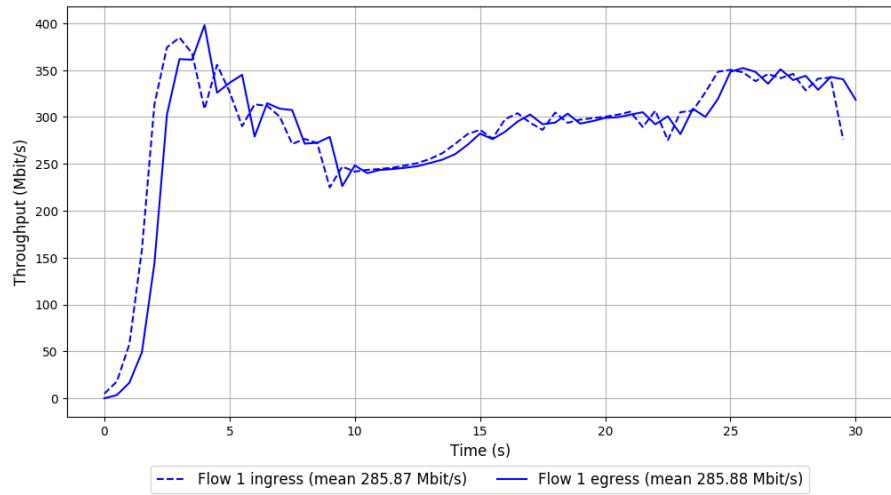


Run 5: Statistics of PCC-Expr

```
Start at: 2019-12-11 17:02:27
End at: 2019-12-11 17:02:58
Local clock offset: -0.063 ms
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2019-12-11 19:48:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 285.88 Mbit/s
95th percentile per-packet one-way delay: 63.971 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 285.88 Mbit/s
95th percentile per-packet one-way delay: 63.971 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

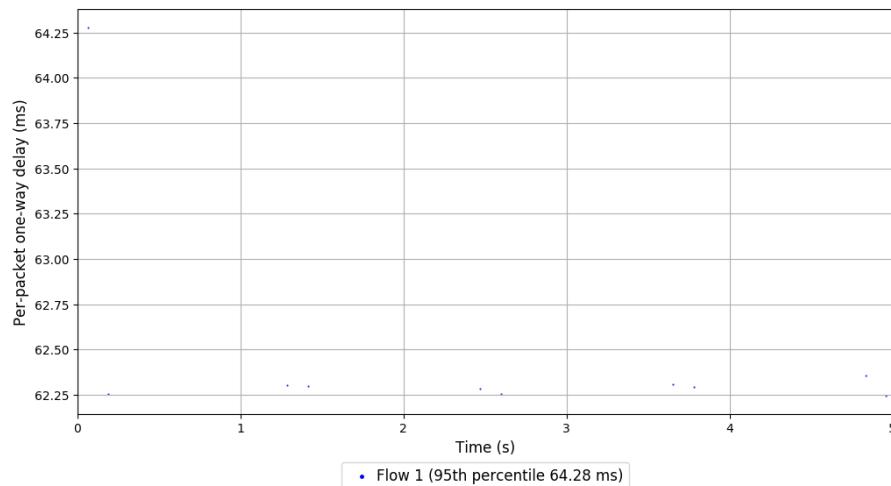
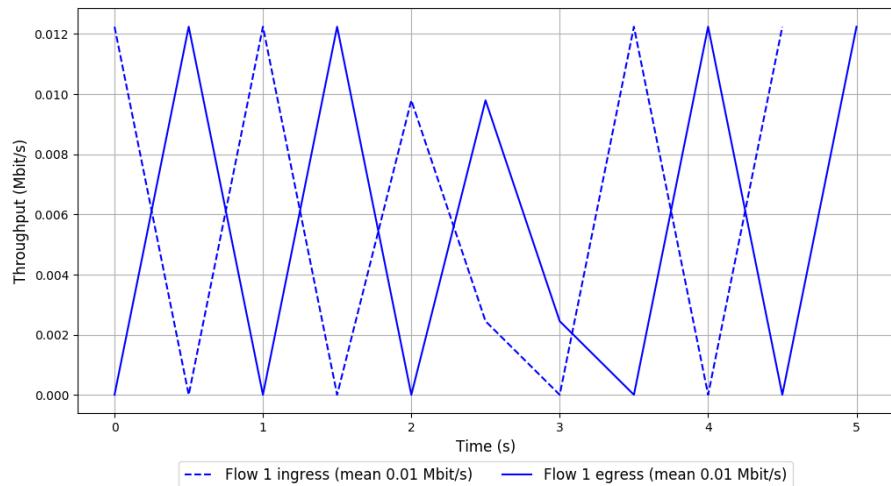
Start at: 2019-12-11 14:28:41

End at: 2019-12-11 14:29:11

Local clock offset: -0.022 ms

Remote clock offset: -0.12 ms

Run 1: Report of QUIC Cubic — Data Link

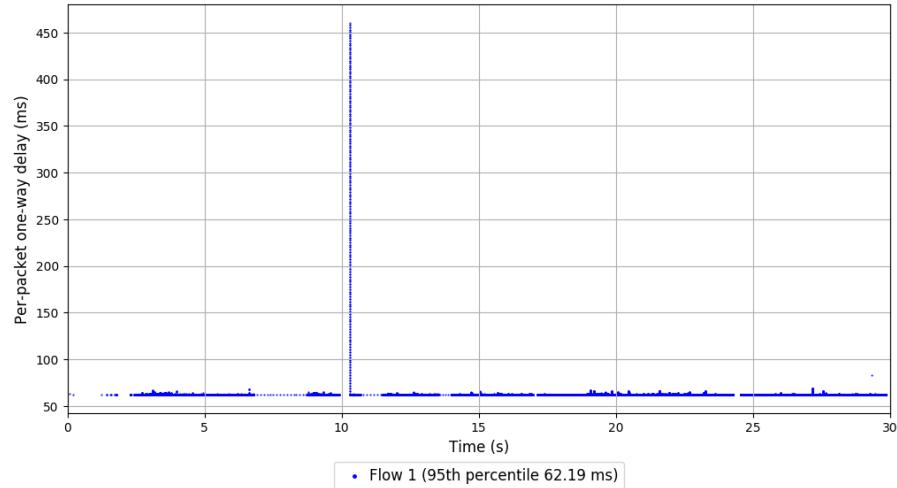
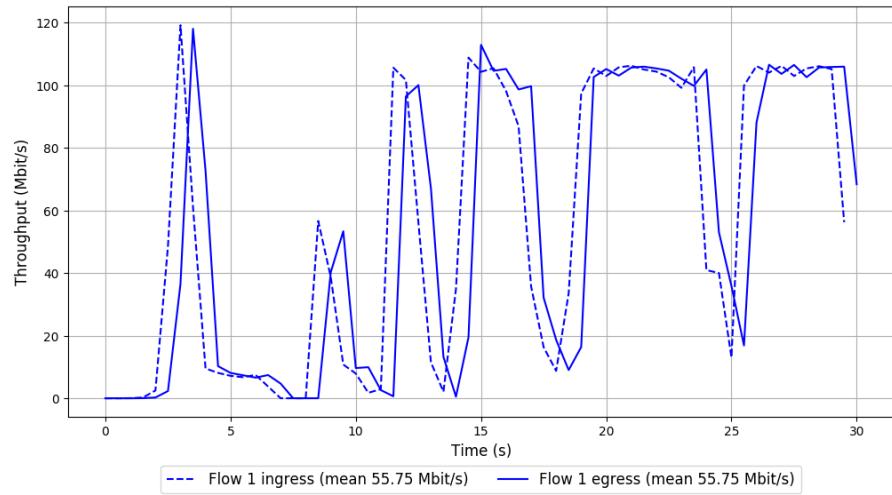


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-12-11 15:03:40
End at: 2019-12-11 15:04:10
Local clock offset: 0.031 ms
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2019-12-11 19:48:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.75 Mbit/s
95th percentile per-packet one-way delay: 62.192 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 55.75 Mbit/s
95th percentile per-packet one-way delay: 62.192 ms
Loss rate: 0.01%
```

Run 2: Report of QUIC Cubic — Data Link

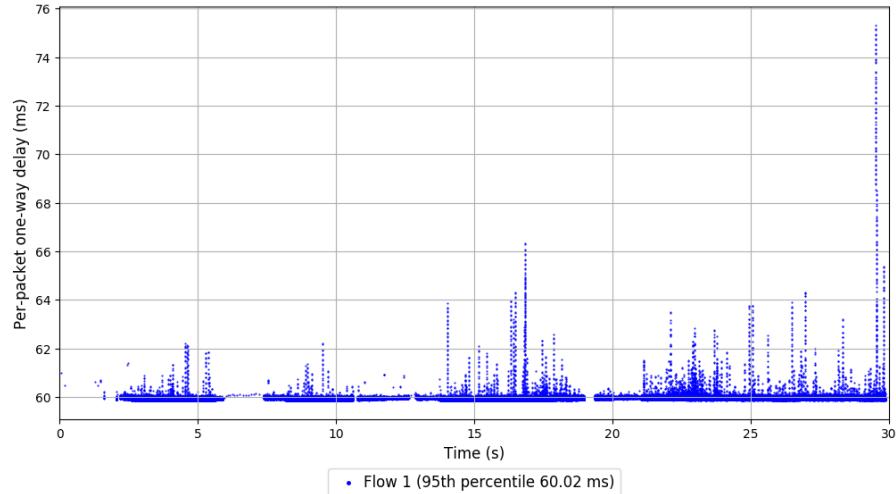
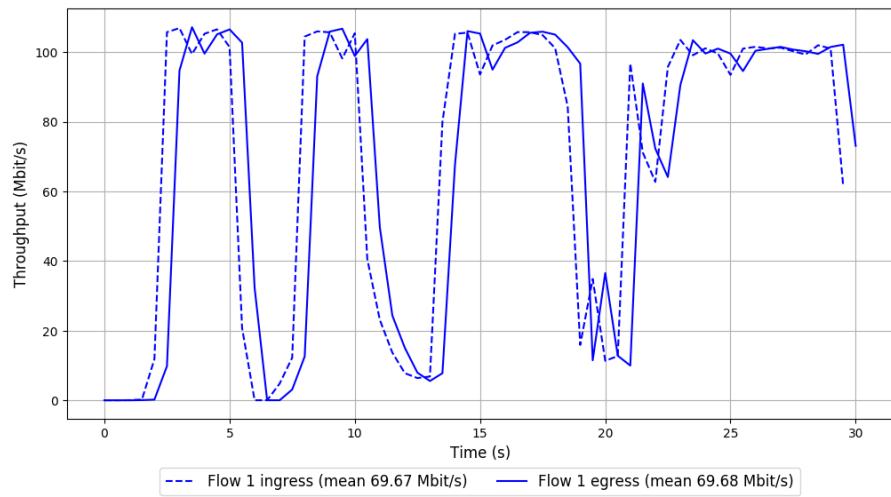


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-12-11 15:38:59
End at: 2019-12-11 15:39:29
Local clock offset: -0.116 ms
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2019-12-11 19:48:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.68 Mbit/s
95th percentile per-packet one-way delay: 60.016 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 69.68 Mbit/s
95th percentile per-packet one-way delay: 60.016 ms
Loss rate: 0.00%
```

Run 3: Report of QUIC Cubic — Data Link

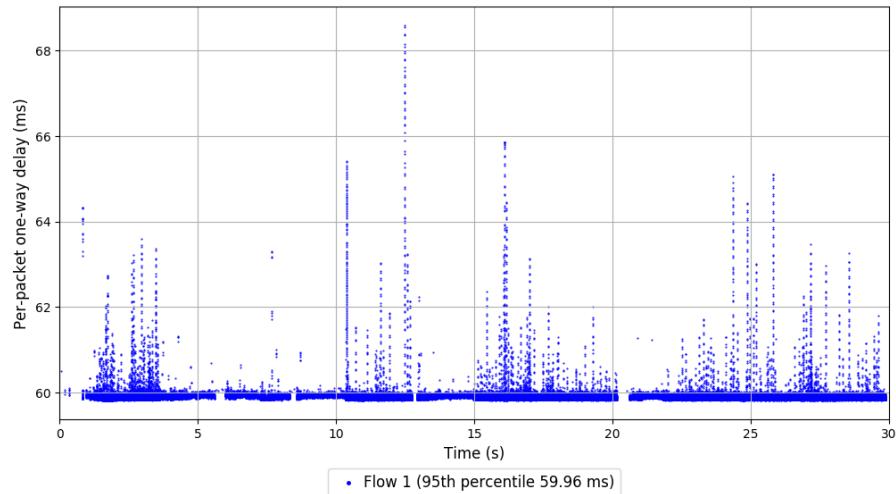
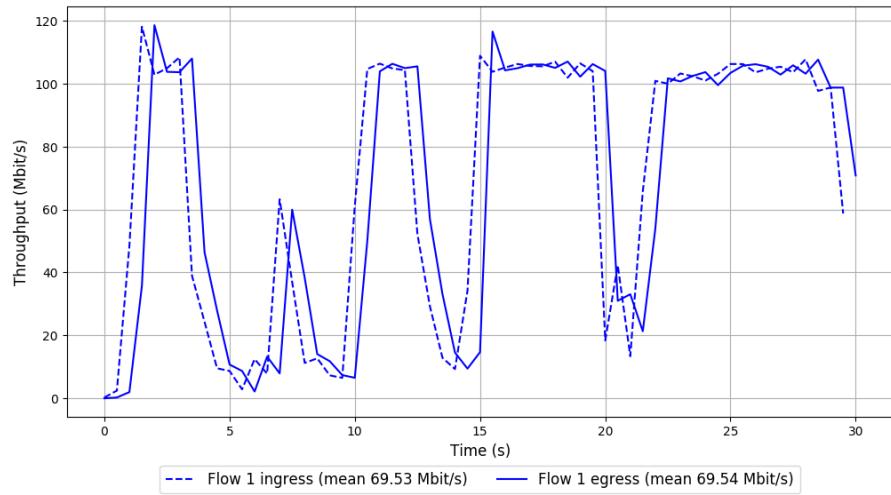


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-12-11 16:14:22
End at: 2019-12-11 16:14:52
Local clock offset: -0.046 ms
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2019-12-11 19:48:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.54 Mbit/s
95th percentile per-packet one-way delay: 59.959 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 69.54 Mbit/s
95th percentile per-packet one-way delay: 59.959 ms
Loss rate: 0.00%
```

Run 4: Report of QUIC Cubic — Data Link

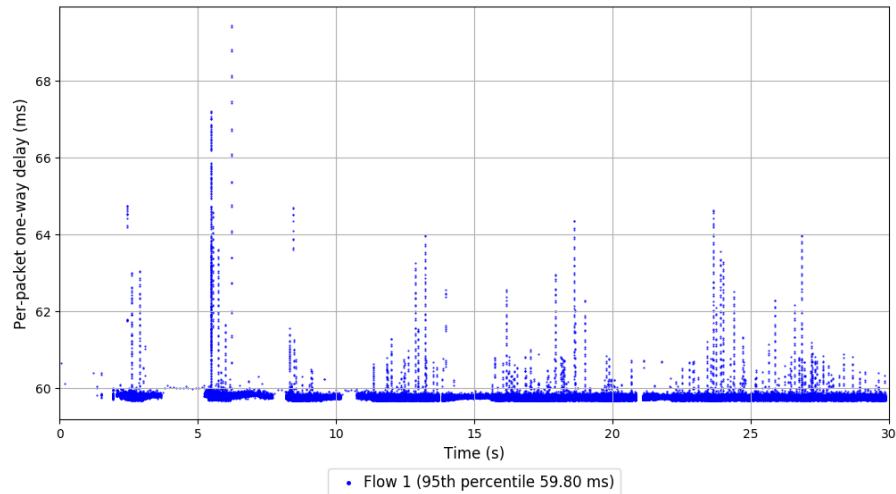
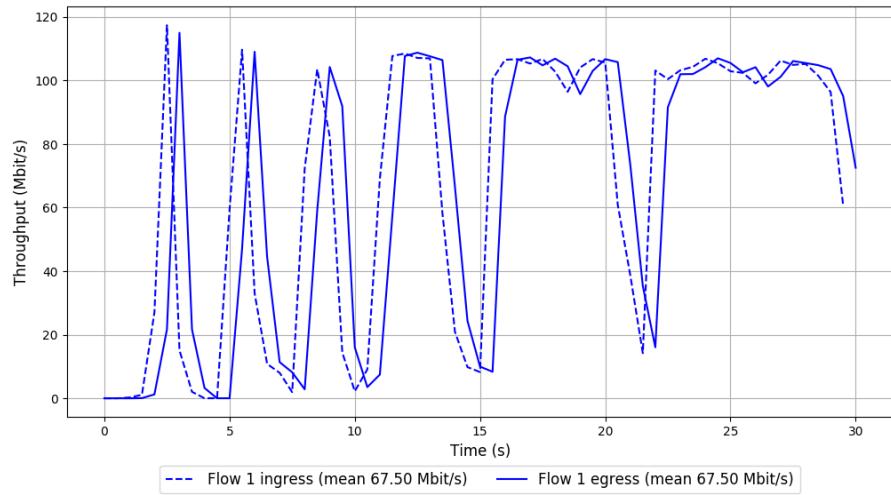


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-12-11 16:49:35
End at: 2019-12-11 16:50:05
Local clock offset: -0.141 ms
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2019-12-11 19:48:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.50 Mbit/s
95th percentile per-packet one-way delay: 59.805 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 67.50 Mbit/s
95th percentile per-packet one-way delay: 59.805 ms
Loss rate: 0.00%
```

Run 5: Report of QUIC Cubic — Data Link

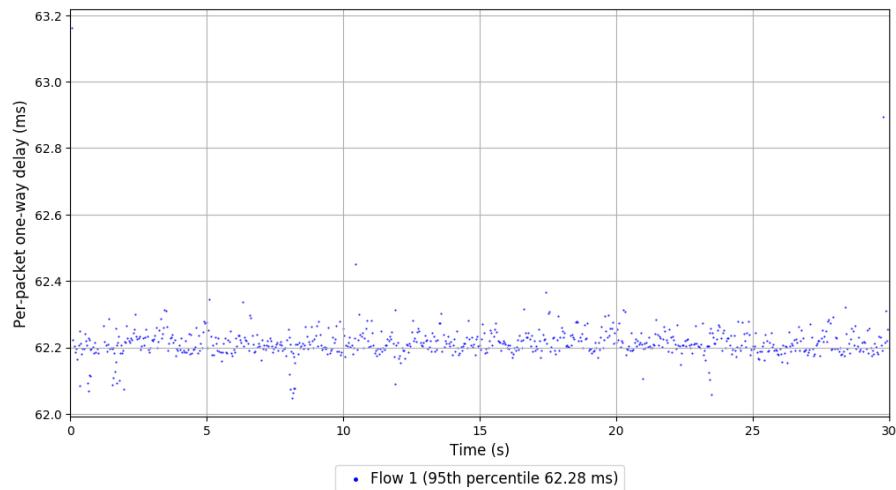
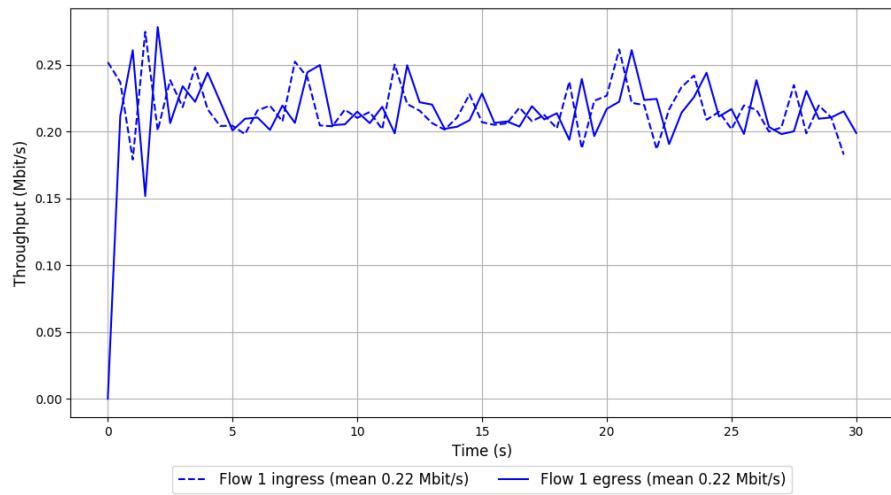


Run 1: Statistics of SCReAM

```
Start at: 2019-12-11 14:44:28
End at: 2019-12-11 14:44:58
Local clock offset: -0.029 ms
Remote clock offset: -0.159 ms

# Below is generated by plot.py at 2019-12-11 19:48:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.278 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.278 ms
Loss rate: 0.13%
```

Run 1: Report of SCReAM — Data Link

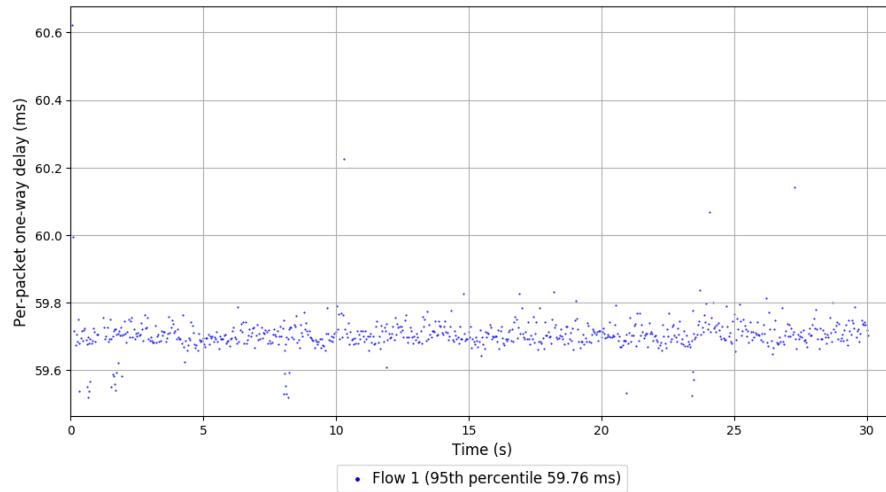
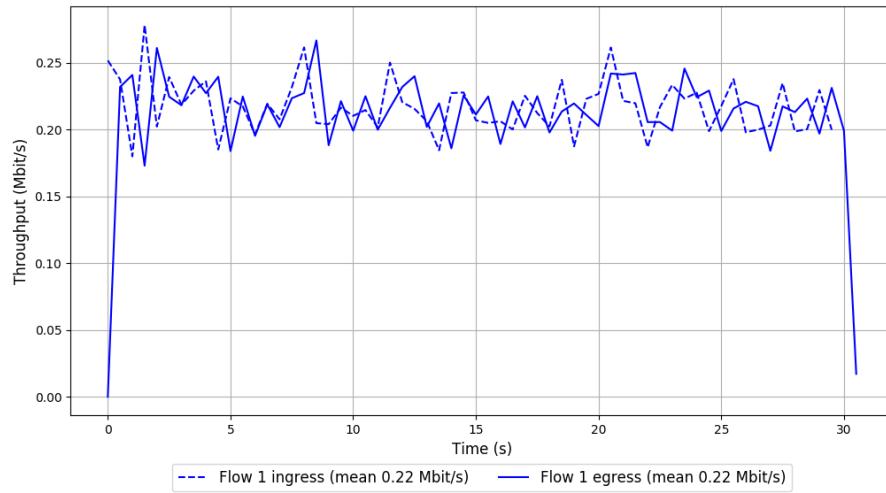


Run 2: Statistics of SCReAM

```
Start at: 2019-12-11 15:19:37
End at: 2019-12-11 15:20:07
Local clock offset: -0.011 ms
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2019-12-11 19:48:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 59.763 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 59.763 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

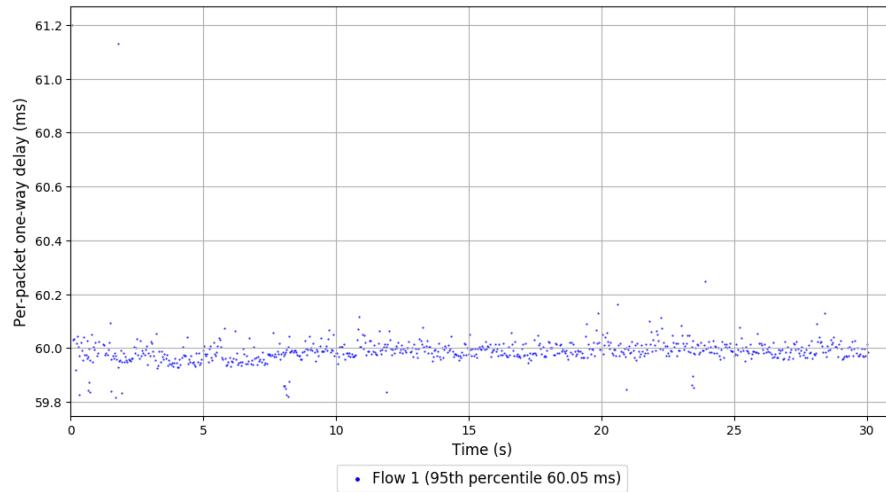
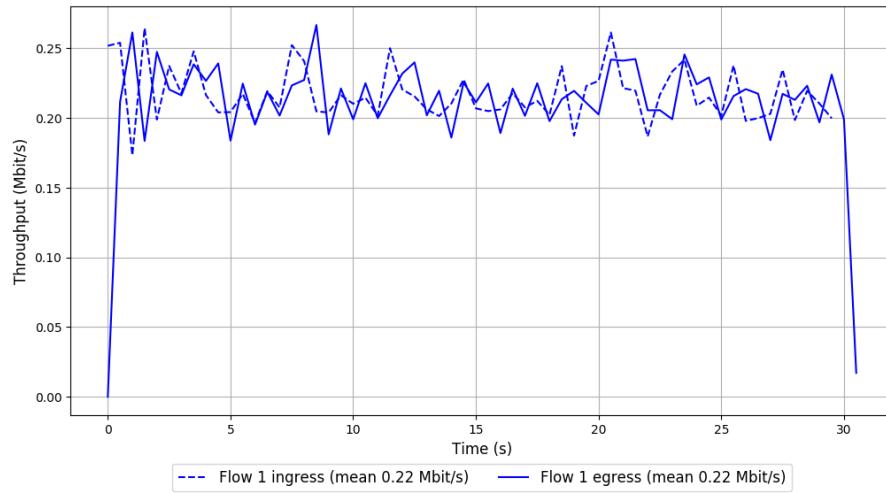


Run 3: Statistics of SCReAM

```
Start at: 2019-12-11 15:55:03
End at: 2019-12-11 15:55:33
Local clock offset: -0.101 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2019-12-11 19:48:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.046 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.046 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

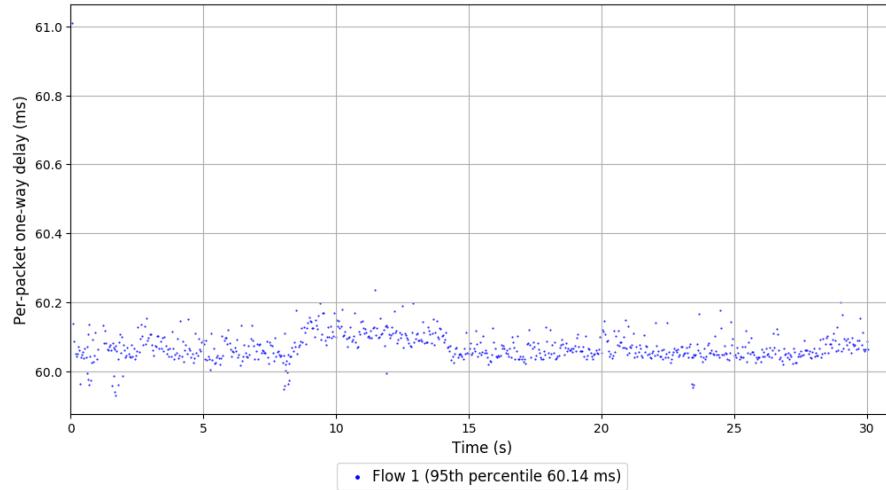
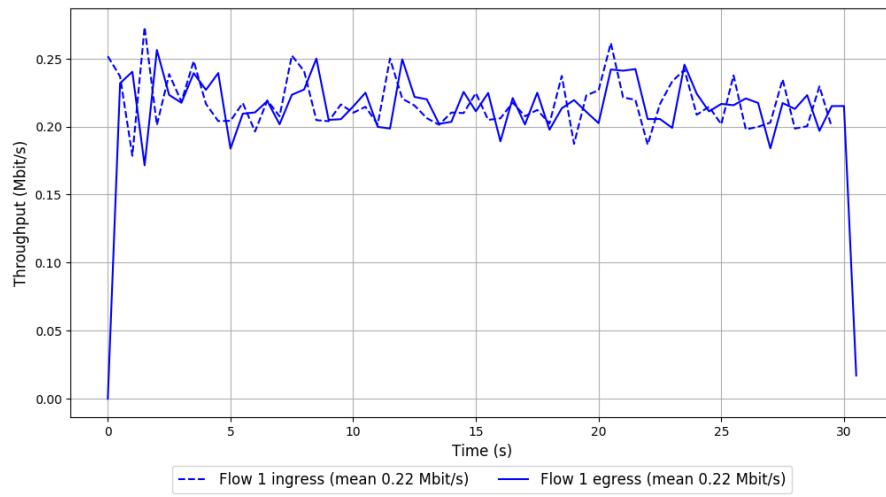


Run 4: Statistics of SCReAM

```
Start at: 2019-12-11 16:30:16
End at: 2019-12-11 16:30:46
Local clock offset: -0.102 ms
Remote clock offset: 0.041 ms

# Below is generated by plot.py at 2019-12-11 19:48:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.140 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.140 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

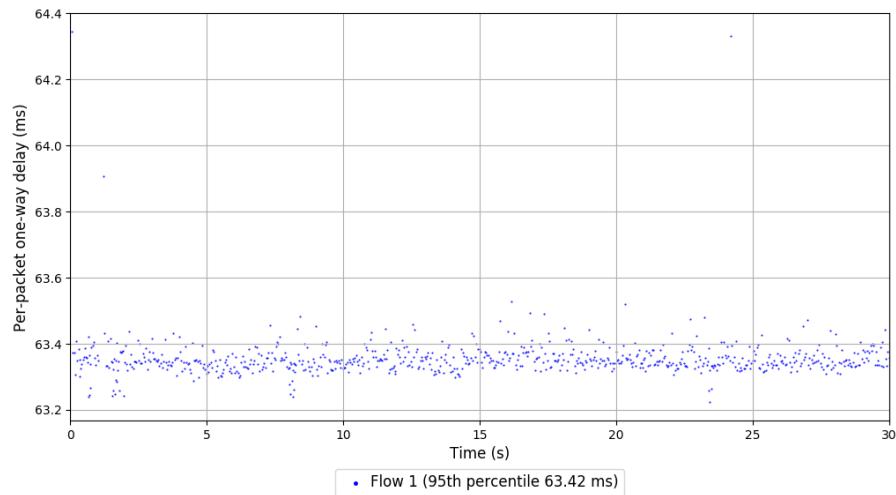
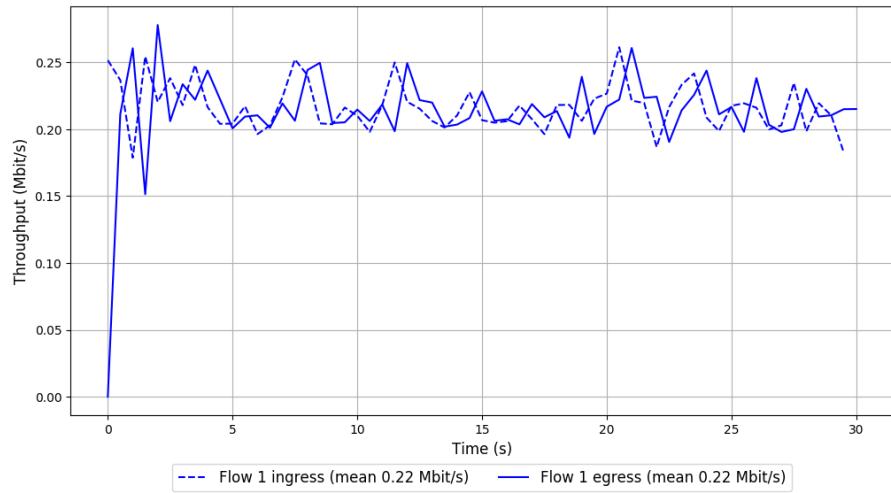


Run 5: Statistics of SCReAM

```
Start at: 2019-12-11 17:05:33
End at: 2019-12-11 17:06:03
Local clock offset: -0.087 ms
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2019-12-11 19:48:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.420 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.420 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

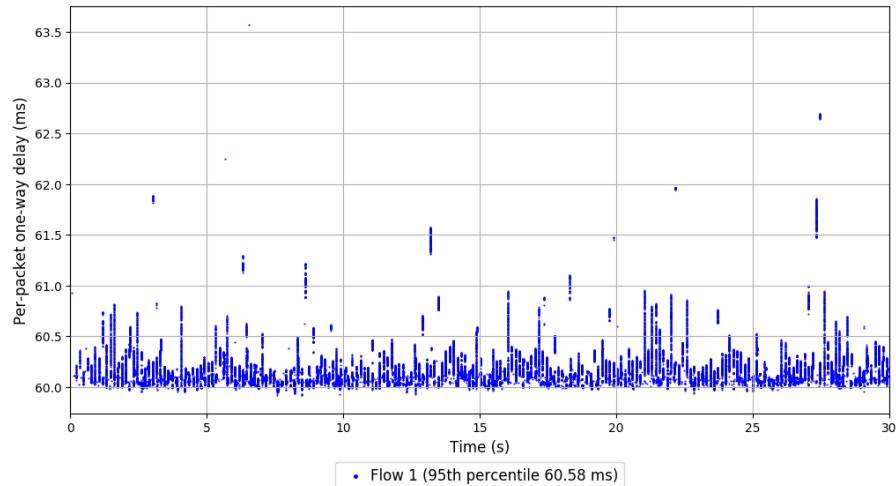
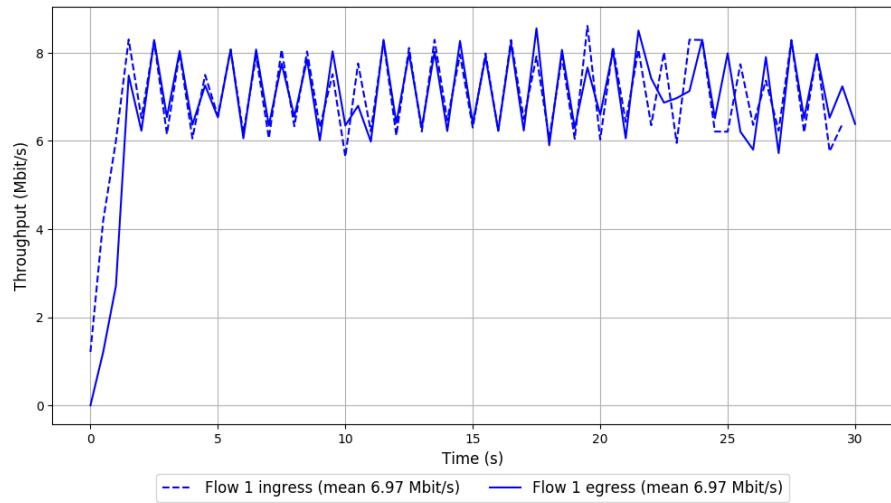


Run 1: Statistics of Sprout

```
Start at: 2019-12-11 14:51:48
End at: 2019-12-11 14:52:18
Local clock offset: -0.033 ms
Remote clock offset: 0.066 ms

# Below is generated by plot.py at 2019-12-11 19:48:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.97 Mbit/s
95th percentile per-packet one-way delay: 60.584 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.97 Mbit/s
95th percentile per-packet one-way delay: 60.584 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

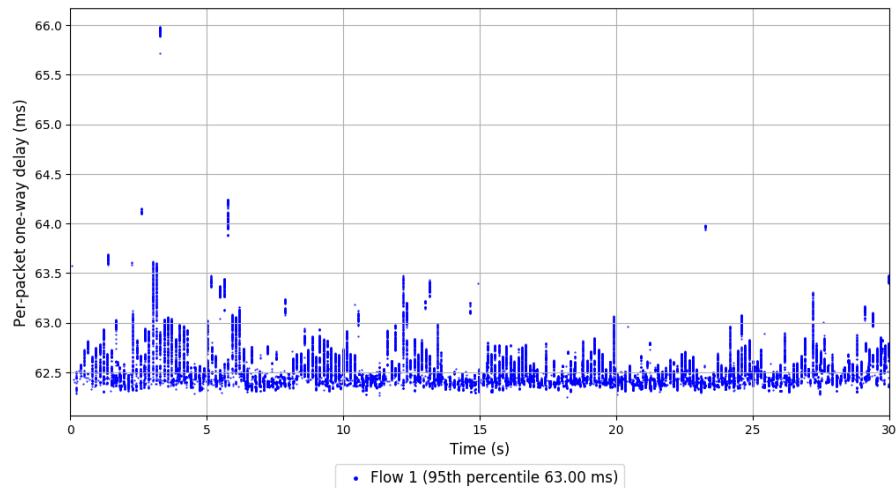
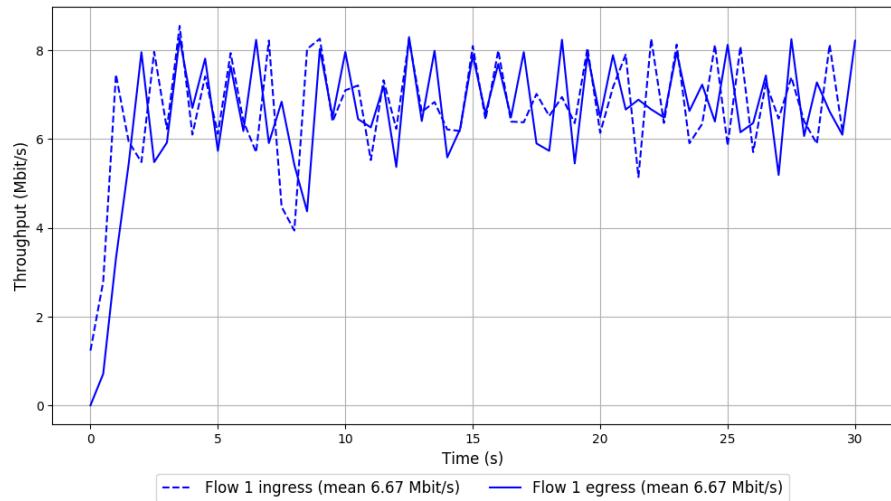


Run 2: Statistics of Sprout

```
Start at: 2019-12-11 15:26:54
End at: 2019-12-11 15:27:24
Local clock offset: -0.092 ms
Remote clock offset: 0.024 ms

# Below is generated by plot.py at 2019-12-11 19:48:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.67 Mbit/s
95th percentile per-packet one-way delay: 62.996 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.67 Mbit/s
95th percentile per-packet one-way delay: 62.996 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

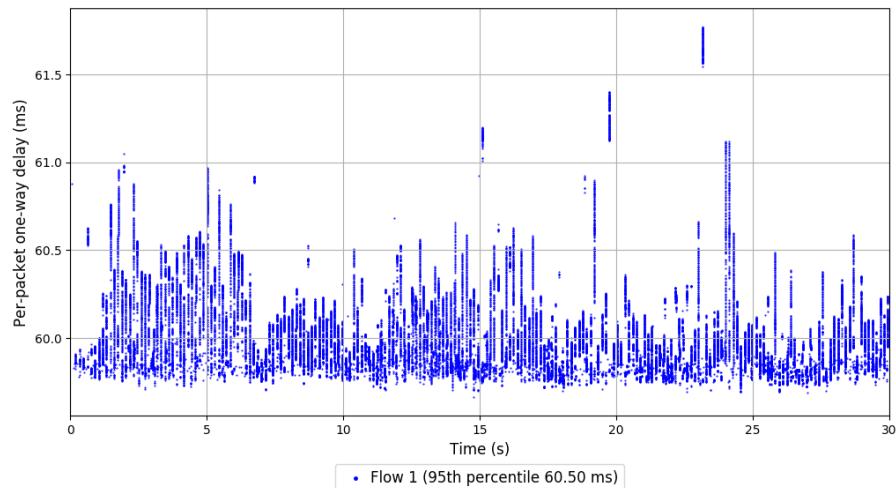
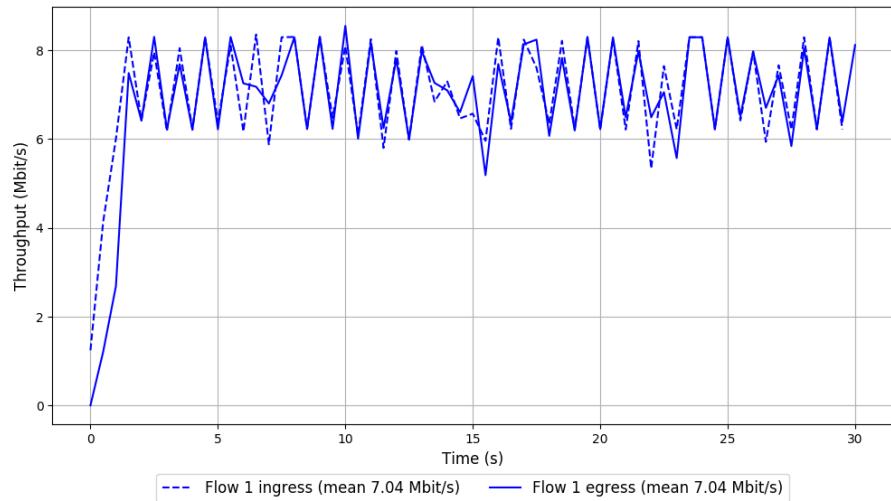


Run 3: Statistics of Sprout

```
Start at: 2019-12-11 16:02:19
End at: 2019-12-11 16:02:49
Local clock offset: -0.047 ms
Remote clock offset: -0.126 ms

# Below is generated by plot.py at 2019-12-11 19:48:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.04 Mbit/s
95th percentile per-packet one-way delay: 60.500 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.04 Mbit/s
95th percentile per-packet one-way delay: 60.500 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

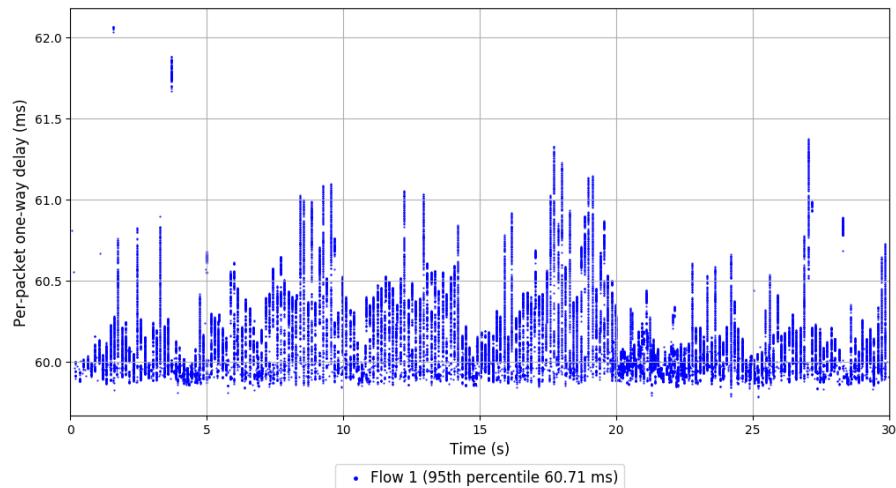
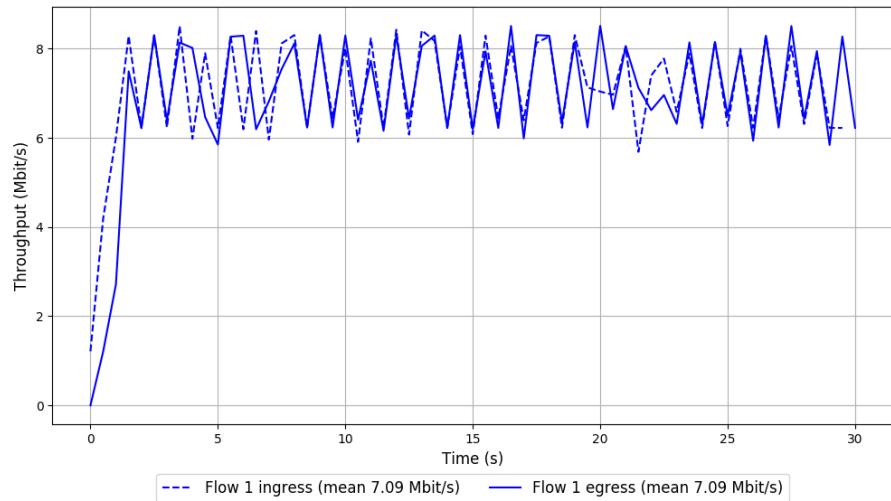


Run 4: Statistics of Sprout

```
Start at: 2019-12-11 16:37:39
End at: 2019-12-11 16:38:09
Local clock offset: -0.096 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2019-12-11 19:48:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.09 Mbit/s
95th percentile per-packet one-way delay: 60.708 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.09 Mbit/s
95th percentile per-packet one-way delay: 60.708 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

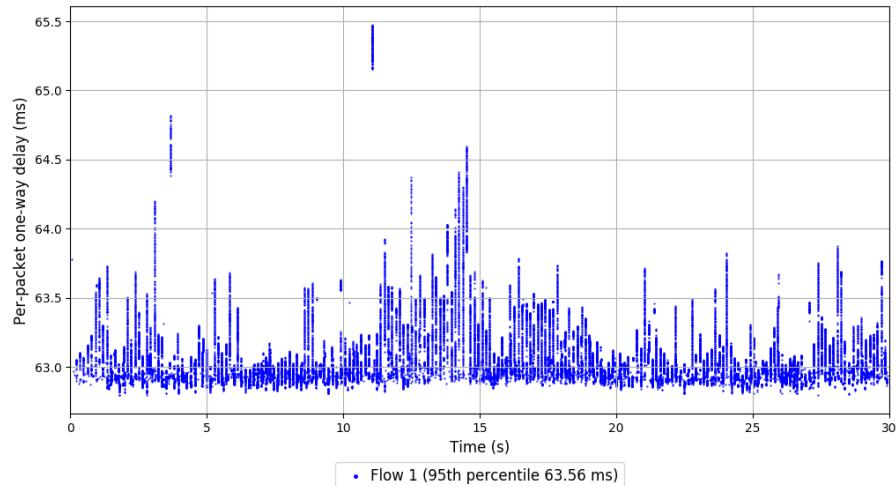
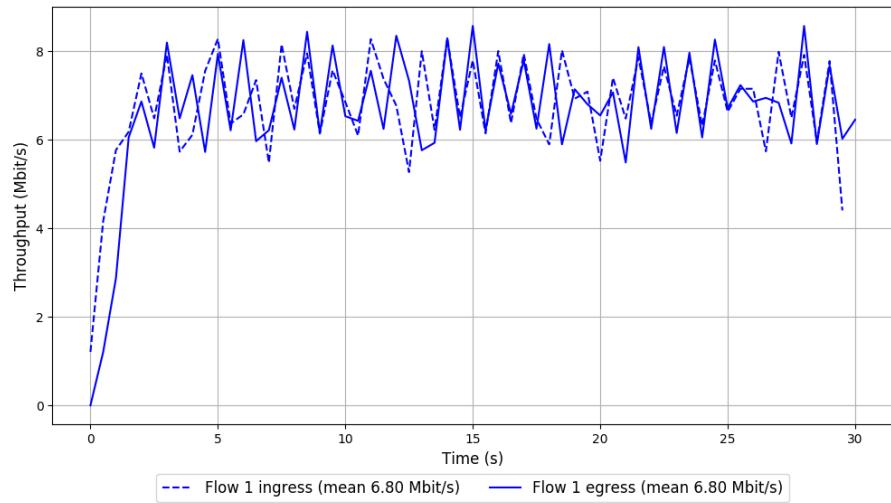


Run 5: Statistics of Sprout

```
Start at: 2019-12-11 17:12:57
End at: 2019-12-11 17:13:27
Local clock offset: -0.067 ms
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2019-12-11 19:48:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.80 Mbit/s
95th percentile per-packet one-way delay: 63.560 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.80 Mbit/s
95th percentile per-packet one-way delay: 63.560 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

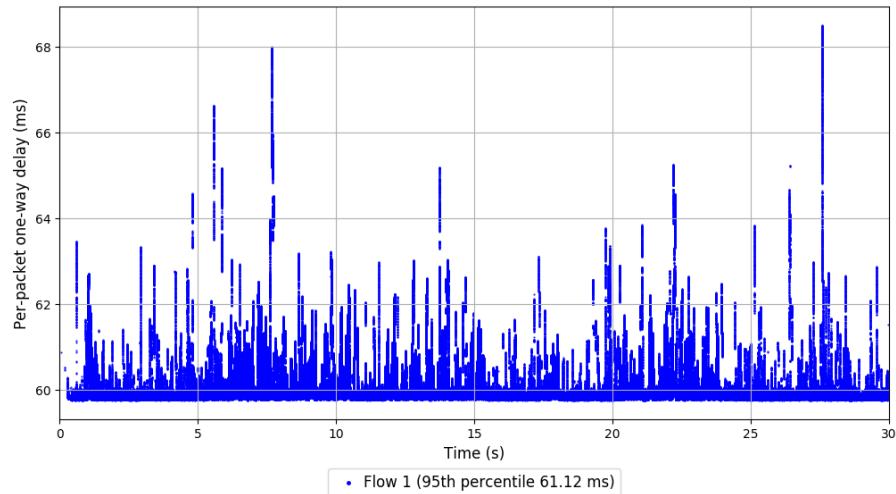
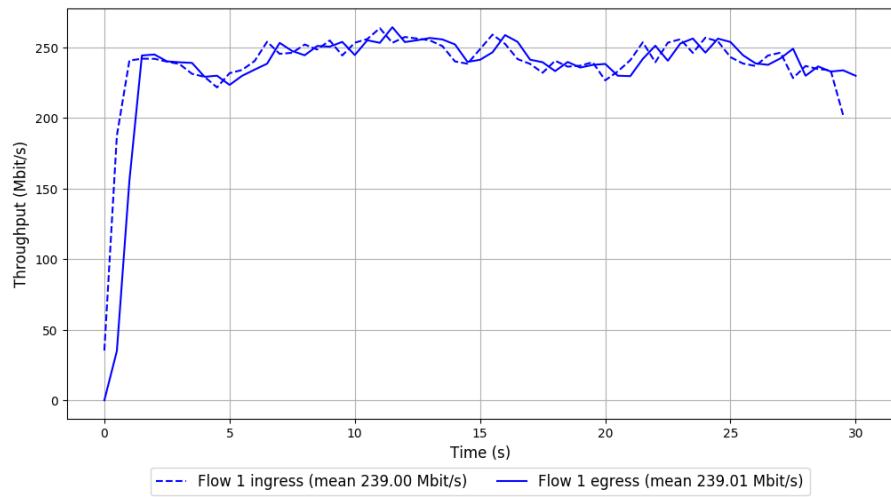


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-12-11 14:29:49
End at: 2019-12-11 14:30:19
Local clock offset: -0.026 ms
Remote clock offset: -0.152 ms

# Below is generated by plot.py at 2019-12-11 19:50:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 239.01 Mbit/s
95th percentile per-packet one-way delay: 61.123 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 239.01 Mbit/s
95th percentile per-packet one-way delay: 61.123 ms
Loss rate: 0.00%
```

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

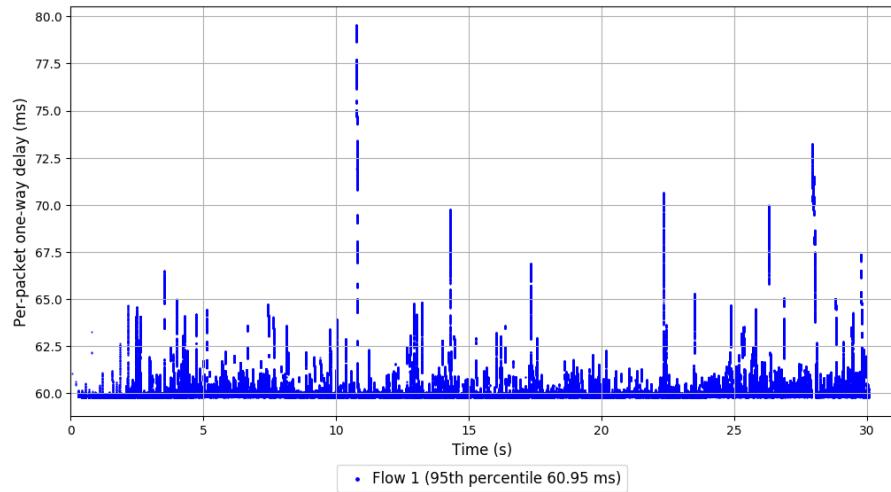
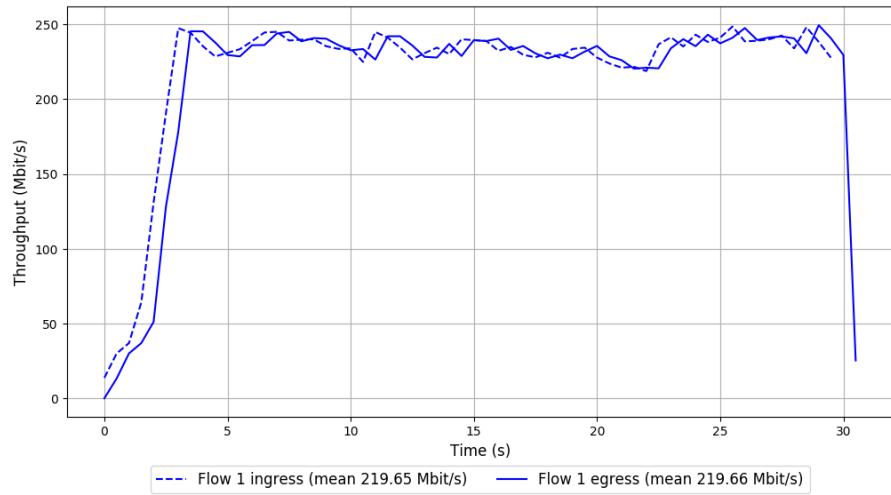


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-12-11 15:04:52
End at: 2019-12-11 15:05:22
Local clock offset: 0.042 ms
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2019-12-11 19:50:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.66 Mbit/s
95th percentile per-packet one-way delay: 60.952 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 219.66 Mbit/s
95th percentile per-packet one-way delay: 60.952 ms
Loss rate: 0.00%
```

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

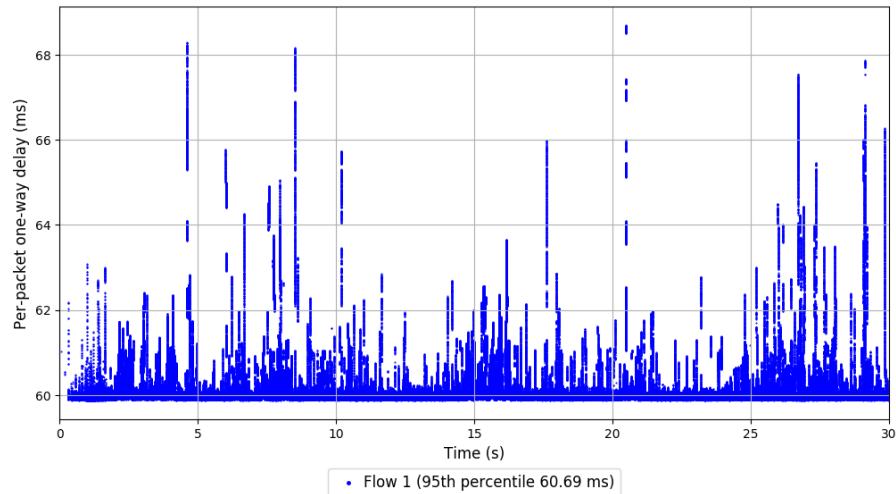
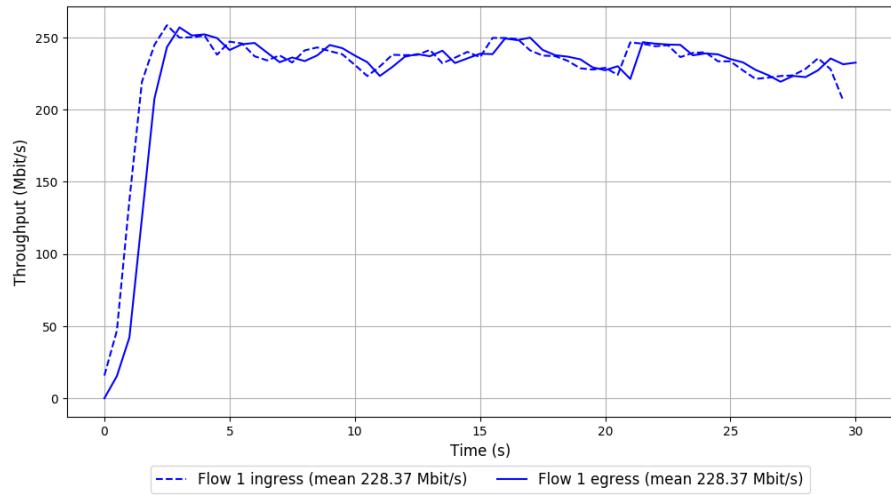


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-12-11 15:40:11
End at: 2019-12-11 15:40:41
Local clock offset: -0.113 ms
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2019-12-11 19:50:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 228.37 Mbit/s
95th percentile per-packet one-way delay: 60.692 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 228.37 Mbit/s
95th percentile per-packet one-way delay: 60.692 ms
Loss rate: 0.00%
```

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

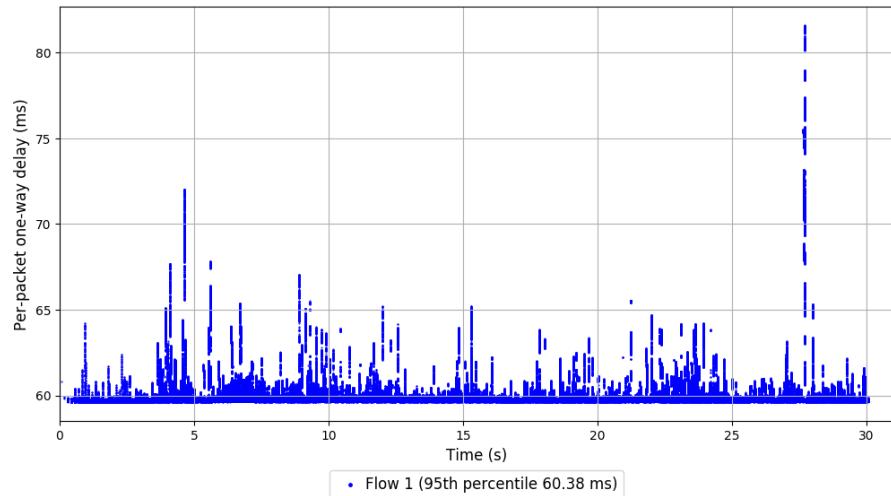
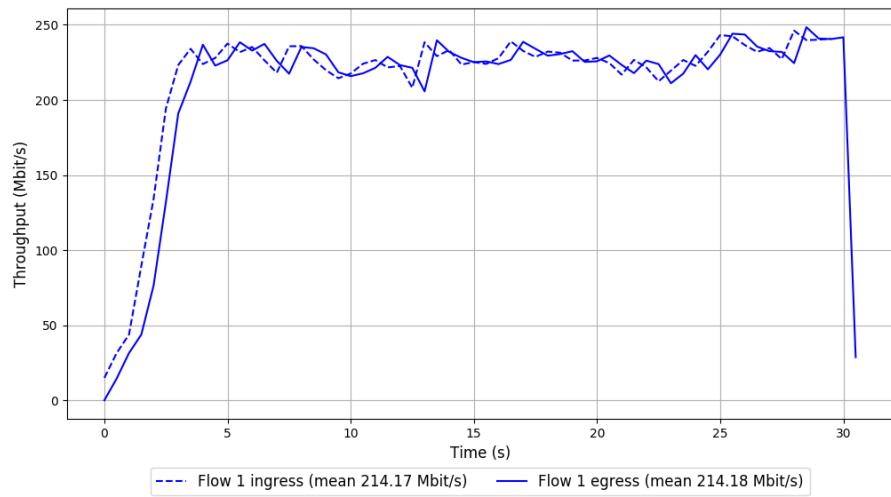


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-12-11 16:15:34
End at: 2019-12-11 16:16:04
Local clock offset: 0.002 ms
Remote clock offset: -0.178 ms

# Below is generated by plot.py at 2019-12-11 19:50:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 214.18 Mbit/s
95th percentile per-packet one-way delay: 60.383 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 214.18 Mbit/s
95th percentile per-packet one-way delay: 60.383 ms
Loss rate: 0.00%
```

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

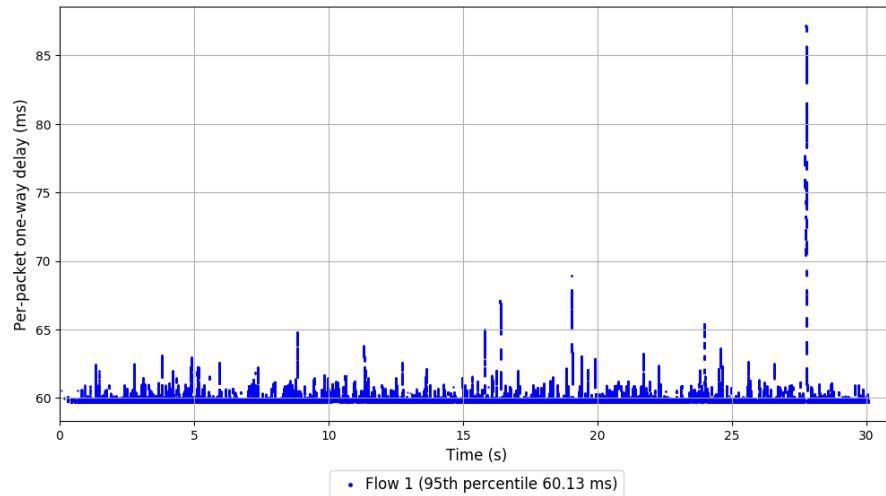
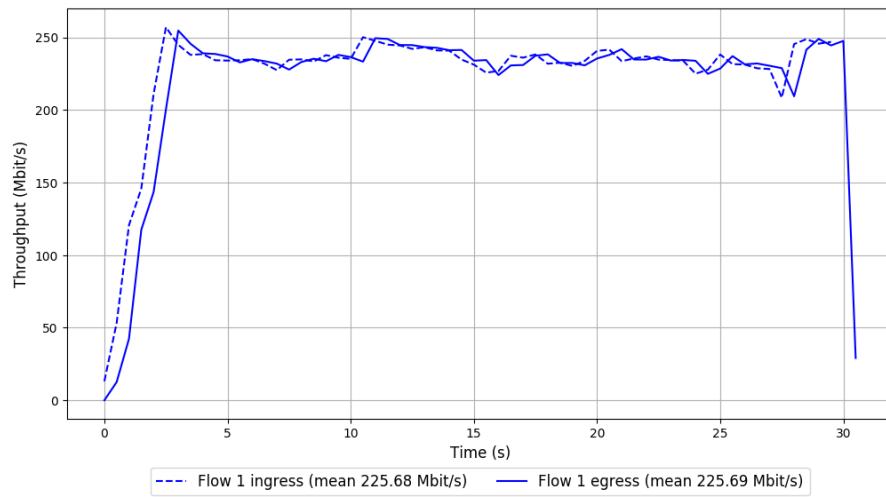


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-12-11 16:50:47
End at: 2019-12-11 16:51:17
Local clock offset: -0.15 ms
Remote clock offset: -0.136 ms

# Below is generated by plot.py at 2019-12-11 19:52:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 225.69 Mbit/s
95th percentile per-packet one-way delay: 60.126 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 225.69 Mbit/s
95th percentile per-packet one-way delay: 60.126 ms
Loss rate: 0.00%
```

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

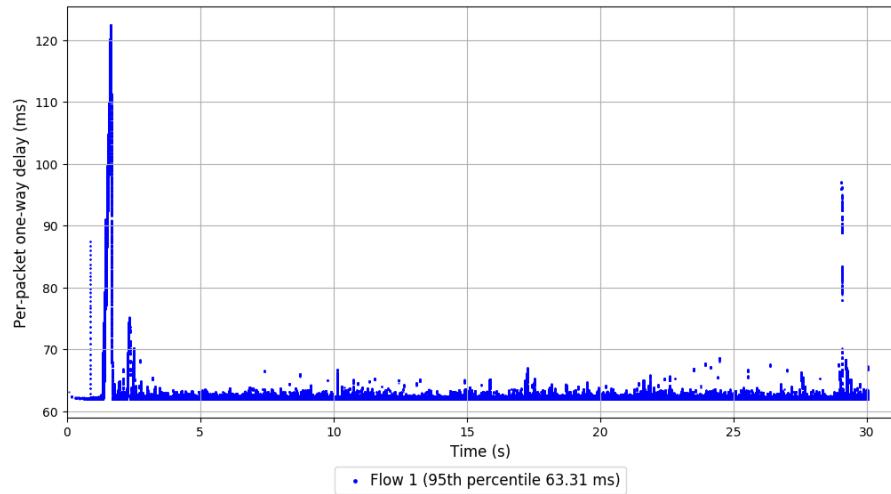
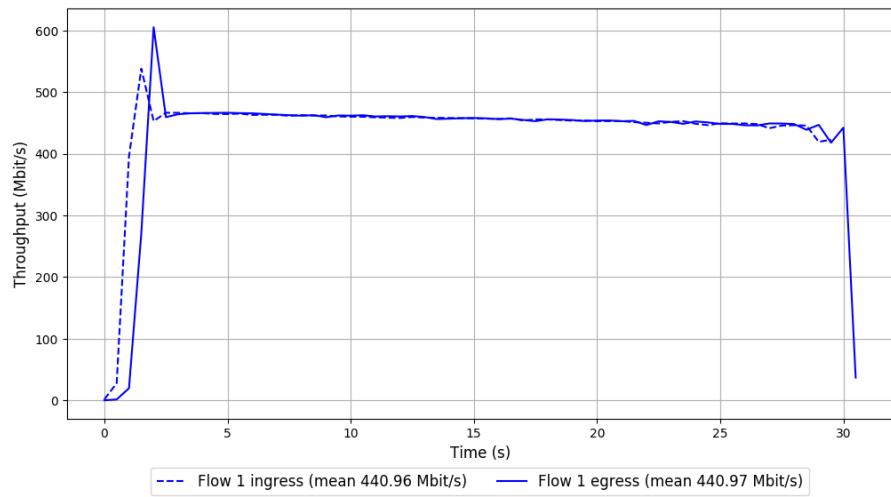


Run 1: Statistics of TCP Vegas

```
Start at: 2019-12-11 14:34:05
End at: 2019-12-11 14:34:35
Local clock offset: -0.023 ms
Remote clock offset: -0.209 ms

# Below is generated by plot.py at 2019-12-11 19:52:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 440.97 Mbit/s
95th percentile per-packet one-way delay: 63.311 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 440.97 Mbit/s
95th percentile per-packet one-way delay: 63.311 ms
Loss rate: 0.01%
```

Run 1: Report of TCP Vegas — Data Link

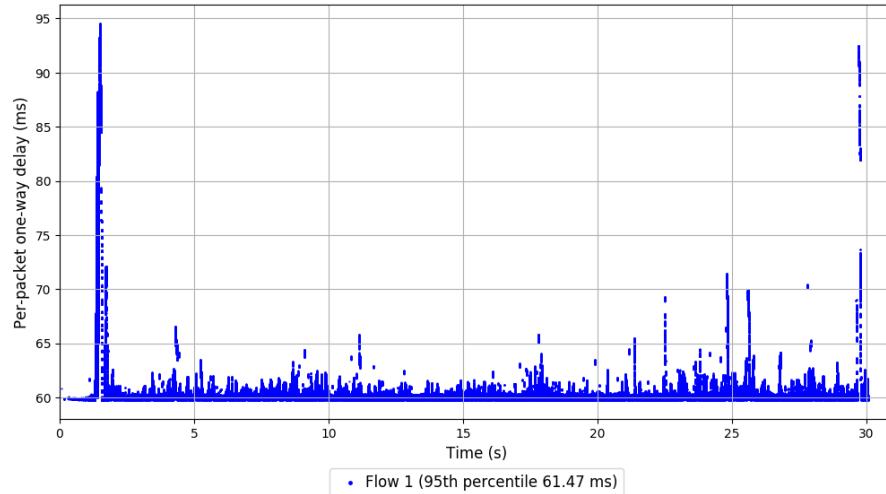
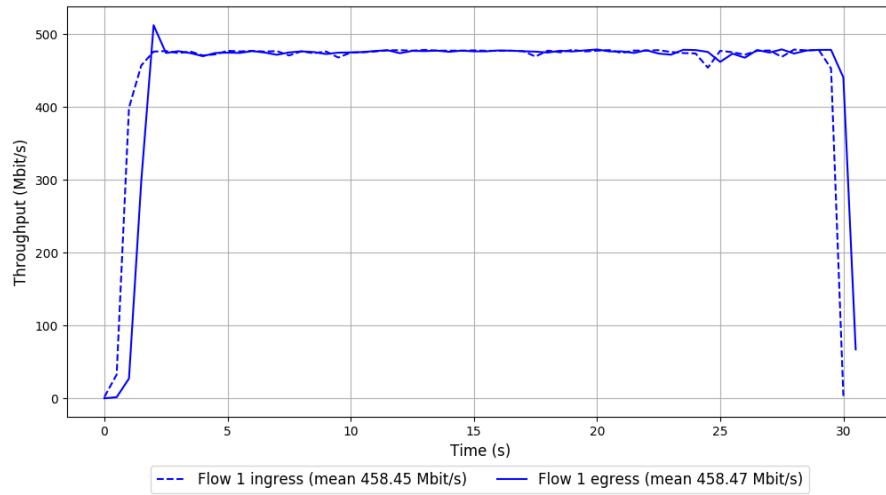


Run 2: Statistics of TCP Vegas

```
Start at: 2019-12-11 15:09:03
End at: 2019-12-11 15:09:33
Local clock offset: 0.025 ms
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2019-12-11 19:57:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 458.47 Mbit/s
95th percentile per-packet one-way delay: 61.472 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 458.47 Mbit/s
95th percentile per-packet one-way delay: 61.472 ms
Loss rate: 0.00%
```

Run 2: Report of TCP Vegas — Data Link

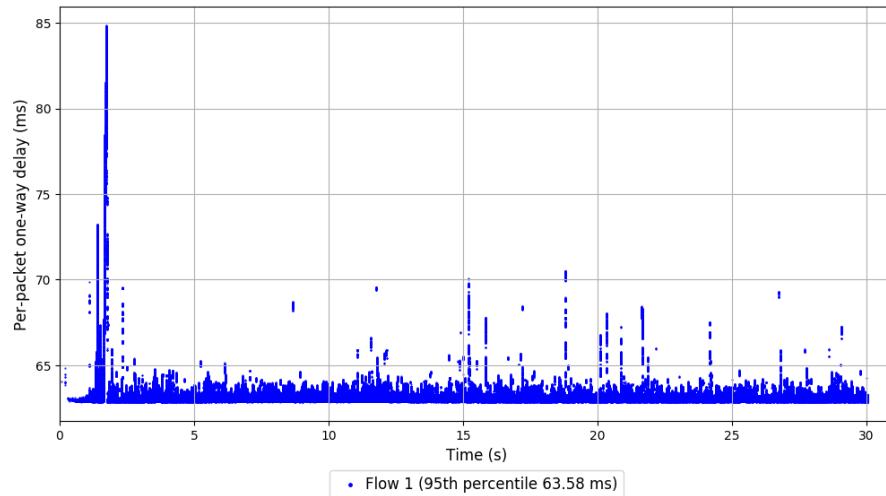
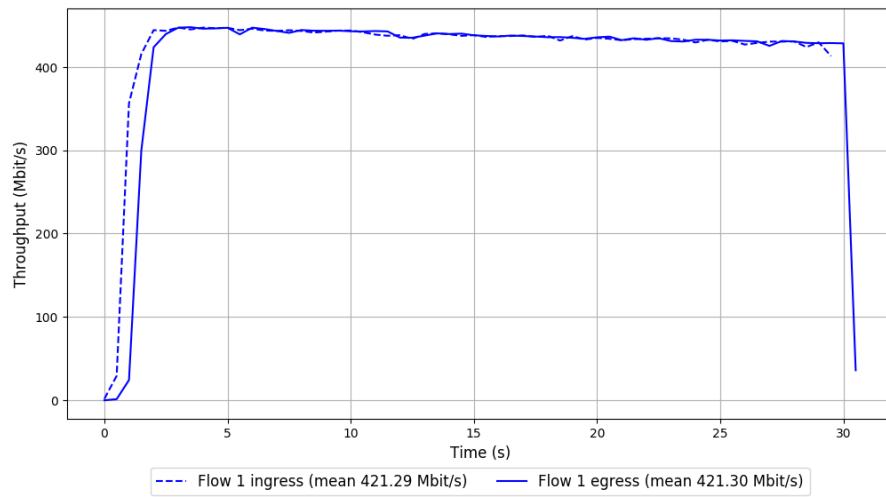


Run 3: Statistics of TCP Vegas

```
Start at: 2019-12-11 15:44:24
End at: 2019-12-11 15:44:54
Local clock offset: -0.072 ms
Remote clock offset: 0.061 ms

# Below is generated by plot.py at 2019-12-11 19:57:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 421.30 Mbit/s
95th percentile per-packet one-way delay: 63.584 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 421.30 Mbit/s
95th percentile per-packet one-way delay: 63.584 ms
Loss rate: 0.01%
```

Run 3: Report of TCP Vegas — Data Link

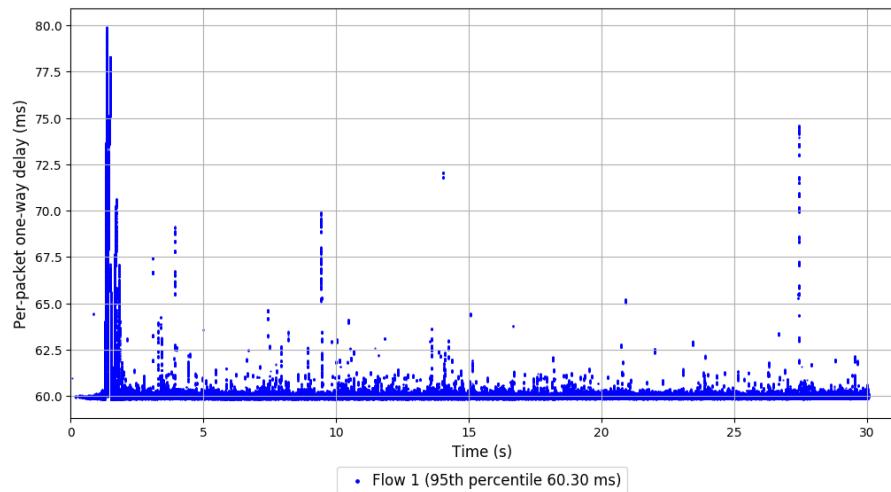
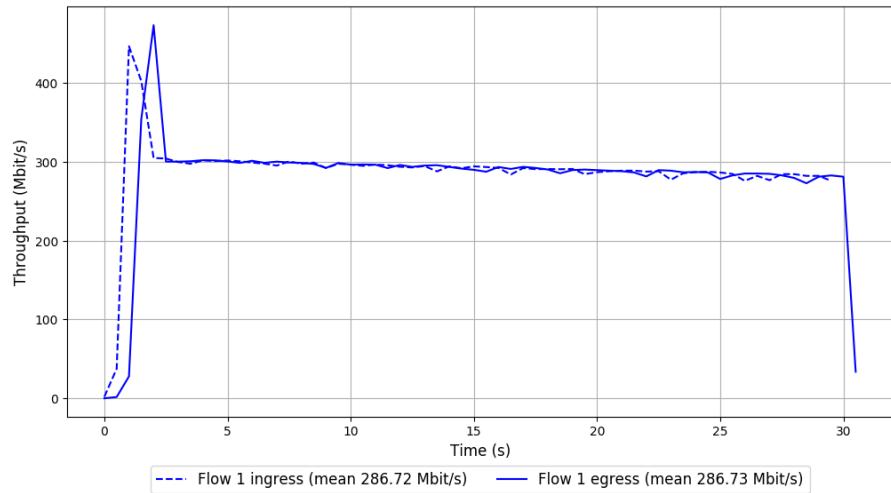


Run 4: Statistics of TCP Vegas

```
Start at: 2019-12-11 16:19:45
End at: 2019-12-11 16:20:15
Local clock offset: -0.025 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2019-12-11 19:57:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 286.73 Mbit/s
95th percentile per-packet one-way delay: 60.302 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 286.73 Mbit/s
95th percentile per-packet one-way delay: 60.302 ms
Loss rate: 0.00%
```

Run 4: Report of TCP Vegas — Data Link

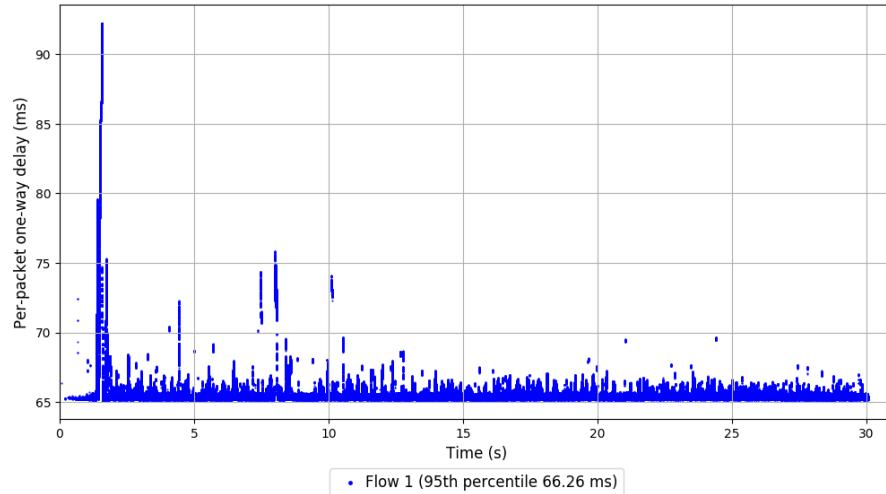
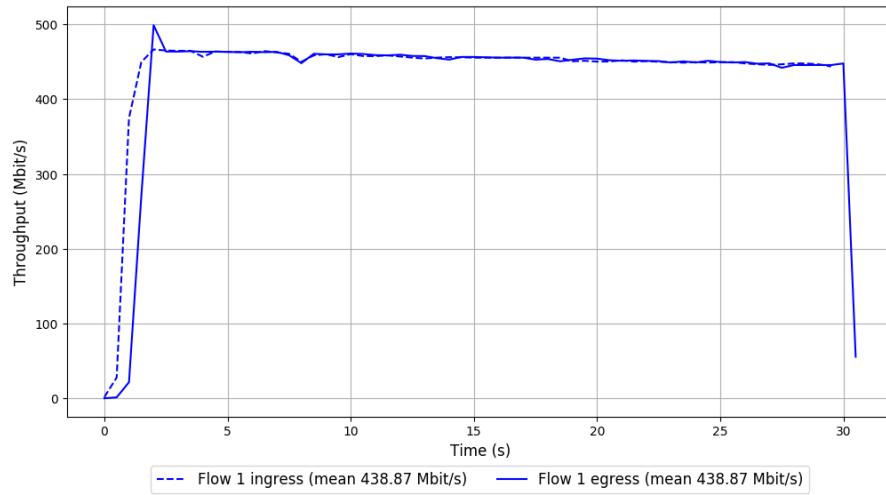


Run 5: Statistics of TCP Vegas

```
Start at: 2019-12-11 16:55:01
End at: 2019-12-11 16:55:31
Local clock offset: -0.166 ms
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2019-12-11 19:58:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 438.87 Mbit/s
95th percentile per-packet one-way delay: 66.264 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 438.87 Mbit/s
95th percentile per-packet one-way delay: 66.264 ms
Loss rate: 0.02%
```

Run 5: Report of TCP Vegas — Data Link

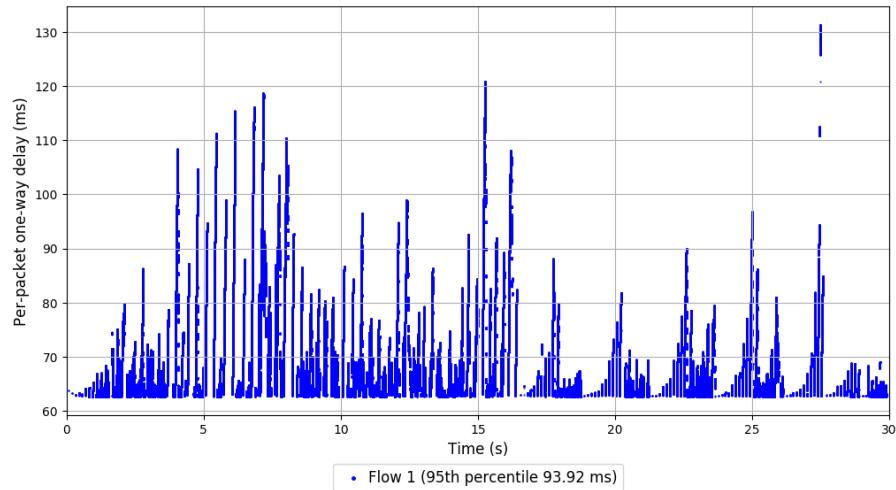
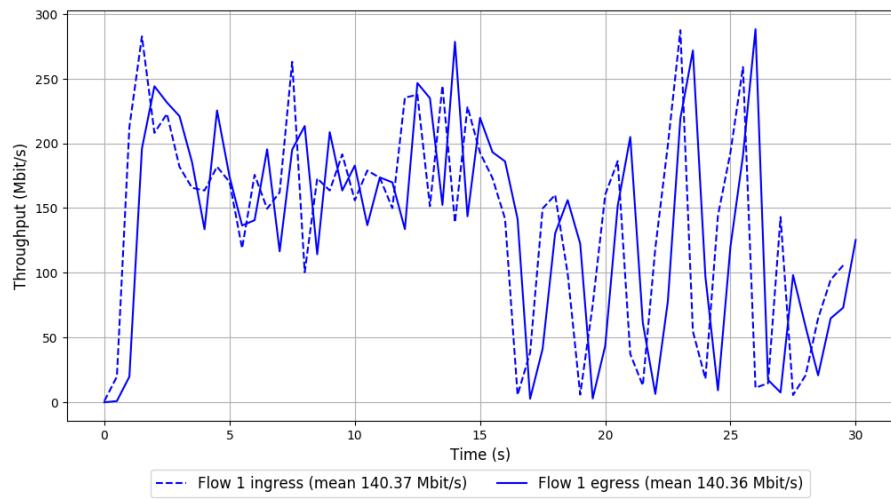


Run 1: Statistics of Verus

```
Start at: 2019-12-11 14:57:34
End at: 2019-12-11 14:58:04
Local clock offset: 0.02 ms
Remote clock offset: -0.108 ms

# Below is generated by plot.py at 2019-12-11 19:58:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 140.36 Mbit/s
95th percentile per-packet one-way delay: 93.925 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 140.36 Mbit/s
95th percentile per-packet one-way delay: 93.925 ms
Loss rate: 0.02%
```

Run 1: Report of Verus — Data Link

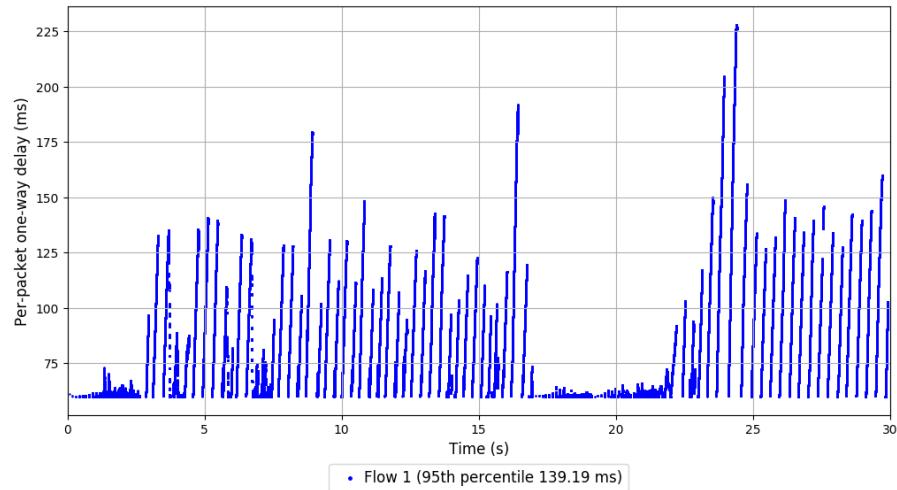
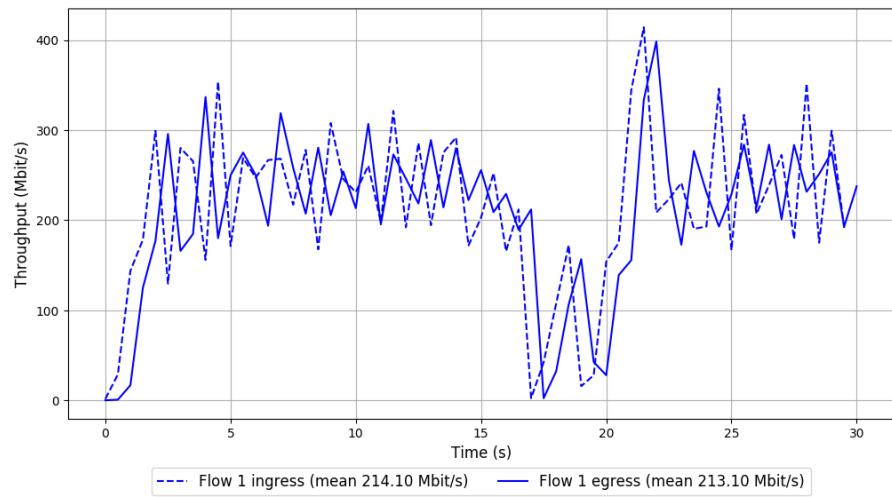


Run 2: Statistics of Verus

```
Start at: 2019-12-11 15:32:45
End at: 2019-12-11 15:33:15
Local clock offset: -0.115 ms
Remote clock offset: 0.027 ms

# Below is generated by plot.py at 2019-12-11 19:58:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 213.10 Mbit/s
95th percentile per-packet one-way delay: 139.189 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 213.10 Mbit/s
95th percentile per-packet one-way delay: 139.189 ms
Loss rate: 0.47%
```

Run 2: Report of Verus — Data Link

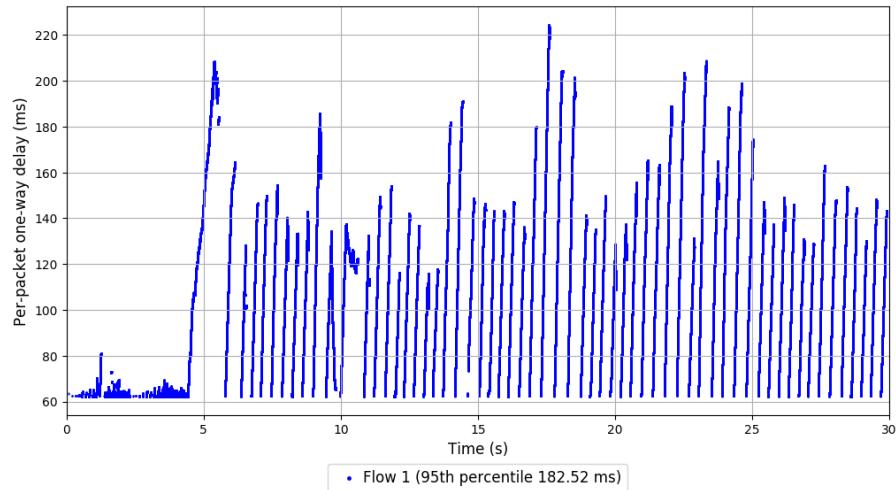
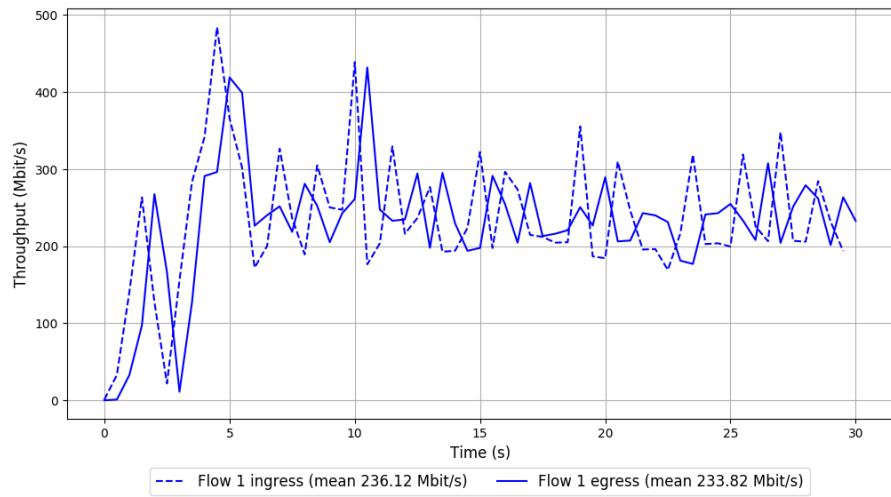


Run 3: Statistics of Verus

```
Start at: 2019-12-11 16:08:08
End at: 2019-12-11 16:08:38
Local clock offset: -0.024 ms
Remote clock offset: -0.163 ms

# Below is generated by plot.py at 2019-12-11 20:01:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 233.82 Mbit/s
95th percentile per-packet one-way delay: 182.524 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 233.82 Mbit/s
95th percentile per-packet one-way delay: 182.524 ms
Loss rate: 0.76%
```

Run 3: Report of Verus — Data Link

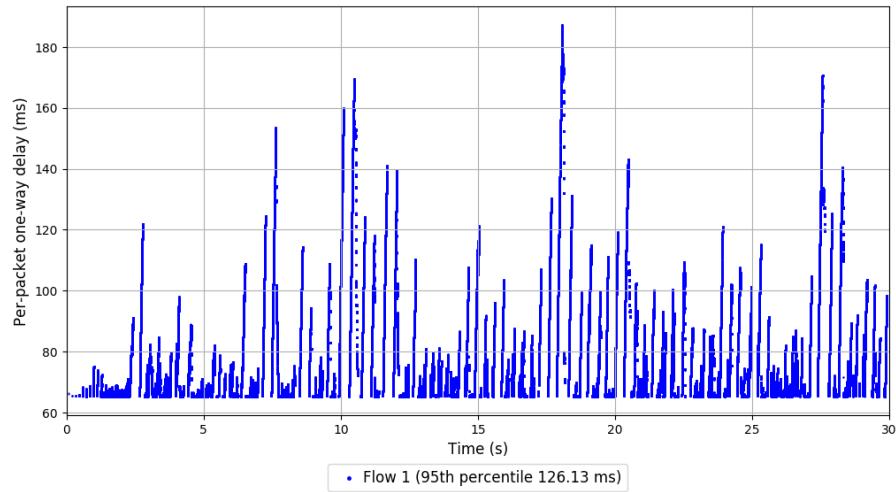
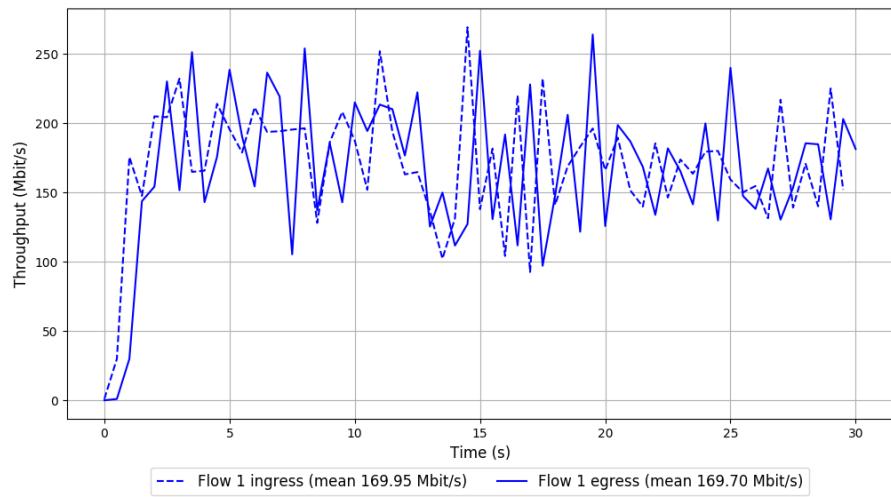


Run 4: Statistics of Verus

```
Start at: 2019-12-11 16:43:28
End at: 2019-12-11 16:43:59
Local clock offset: -0.146 ms
Remote clock offset: 0.07 ms

# Below is generated by plot.py at 2019-12-11 20:01:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 169.70 Mbit/s
95th percentile per-packet one-way delay: 126.133 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 169.70 Mbit/s
95th percentile per-packet one-way delay: 126.133 ms
Loss rate: 0.17%
```

Run 4: Report of Verus — Data Link

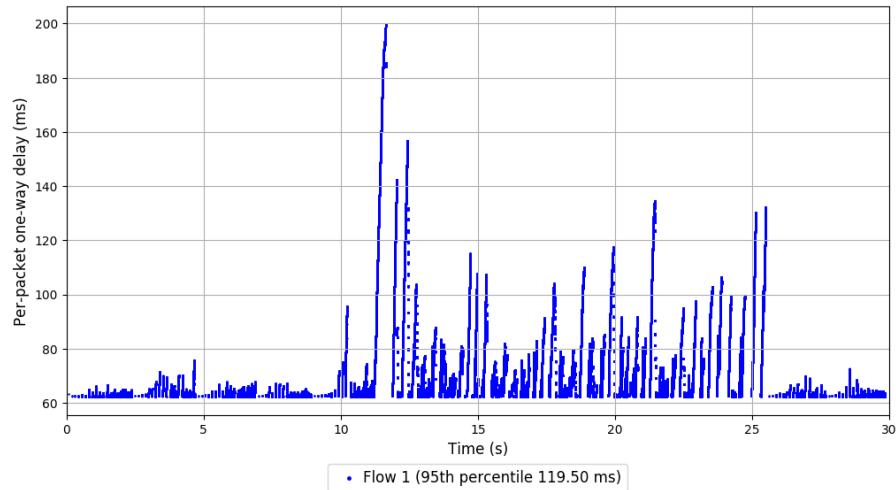
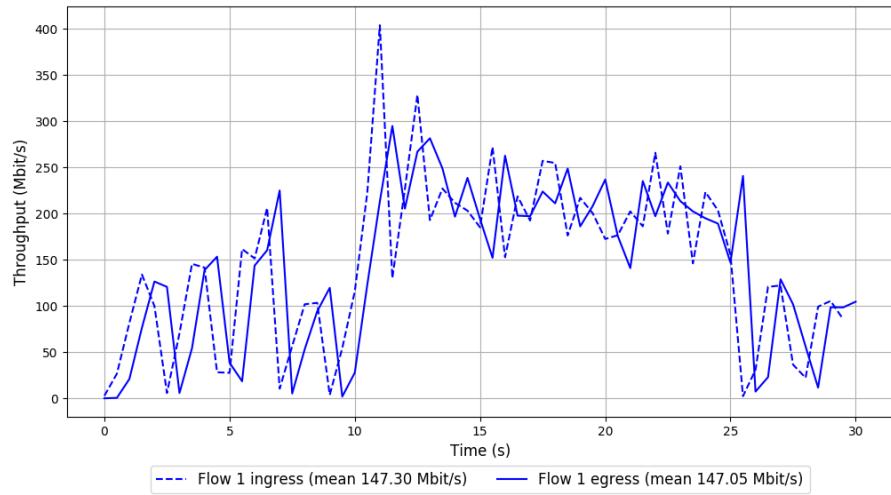


Run 5: Statistics of Verus

```
Start at: 2019-12-11 17:18:43
End at: 2019-12-11 17:19:13
Local clock offset: -0.077 ms
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2019-12-11 20:01:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 147.05 Mbit/s
95th percentile per-packet one-way delay: 119.497 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 147.05 Mbit/s
95th percentile per-packet one-way delay: 119.497 ms
Loss rate: 0.17%
```

Run 5: Report of Verus — Data Link

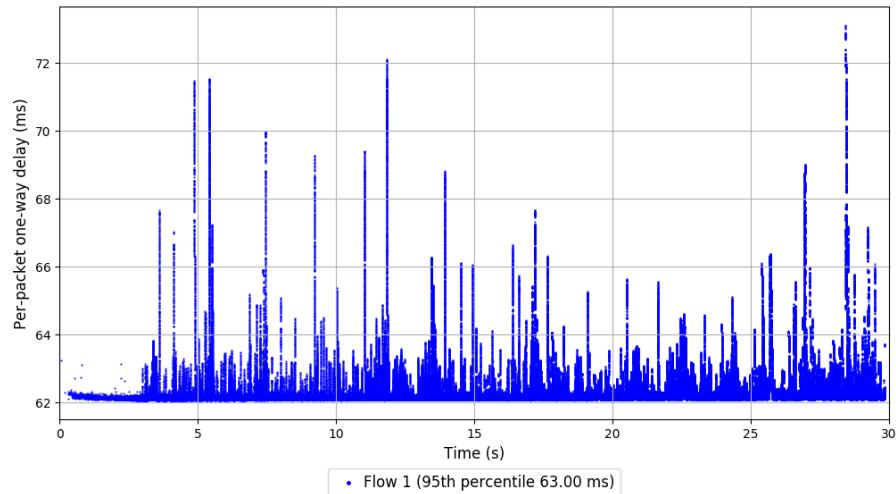
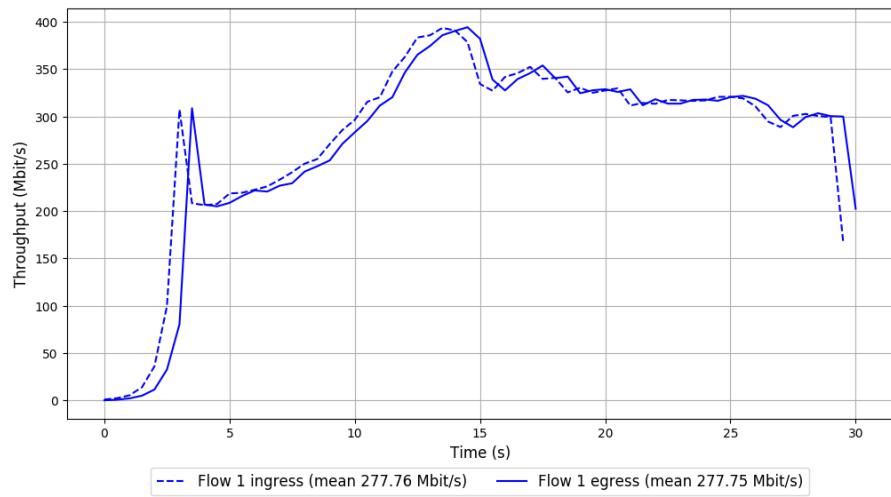


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-12-11 14:56:07
End at: 2019-12-11 14:56:37
Local clock offset: -0.035 ms
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2019-12-11 20:01:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 277.75 Mbit/s
95th percentile per-packet one-way delay: 62.999 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 277.75 Mbit/s
95th percentile per-packet one-way delay: 62.999 ms
Loss rate: 0.01%
```

Run 1: Report of PCC-Vivace — Data Link

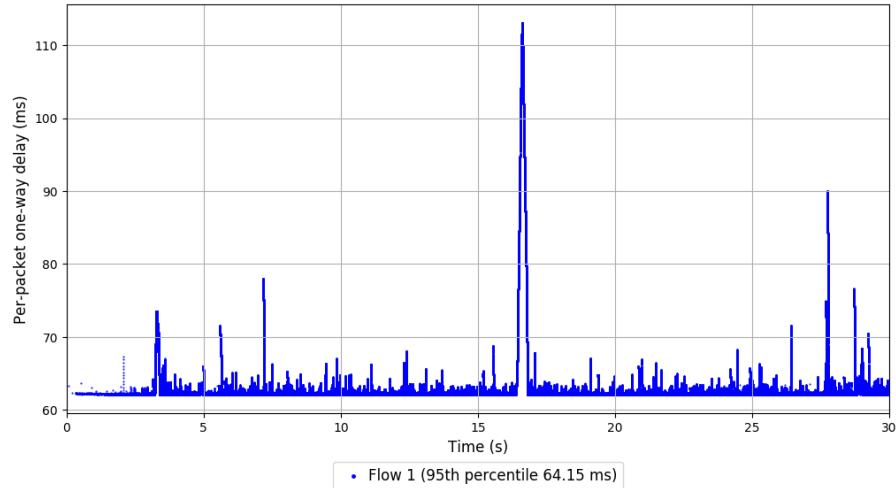
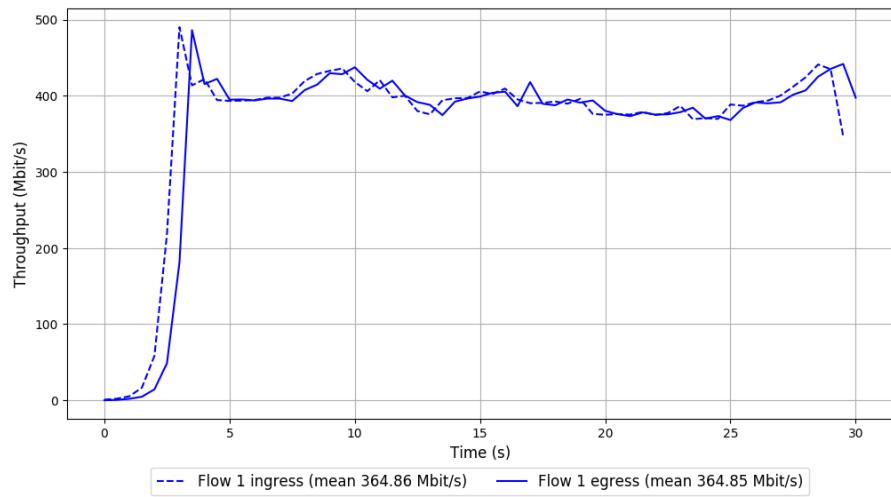


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-12-11 15:31:13
End at: 2019-12-11 15:31:43
Local clock offset: -0.107 ms
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2019-12-11 20:02:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 364.85 Mbit/s
95th percentile per-packet one-way delay: 64.152 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 364.85 Mbit/s
95th percentile per-packet one-way delay: 64.152 ms
Loss rate: 0.01%
```

Run 2: Report of PCC-Vivace — Data Link

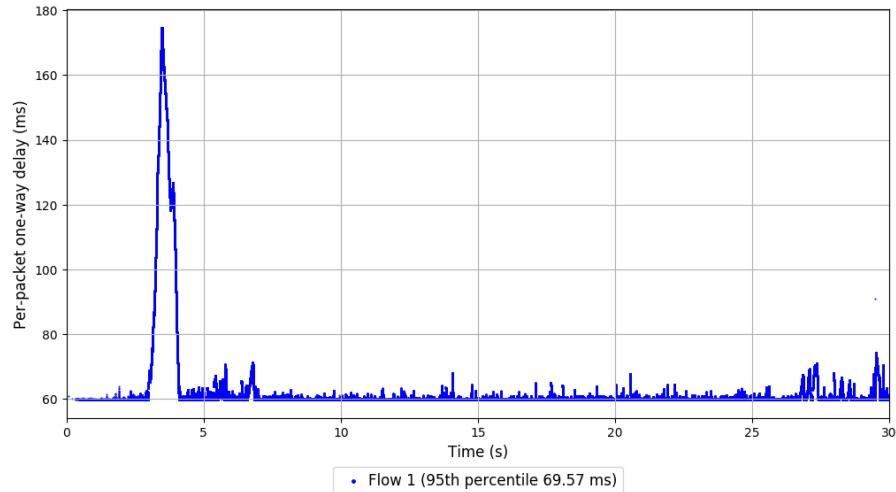
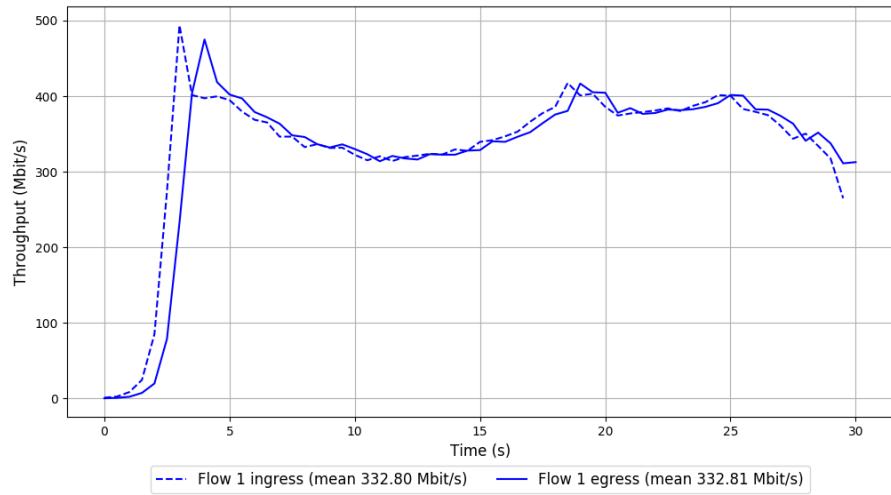


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-12-11 16:06:37
End at: 2019-12-11 16:07:07
Local clock offset: -0.033 ms
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2019-12-11 20:02:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 332.81 Mbit/s
95th percentile per-packet one-way delay: 69.566 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 332.81 Mbit/s
95th percentile per-packet one-way delay: 69.566 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Vivace — Data Link

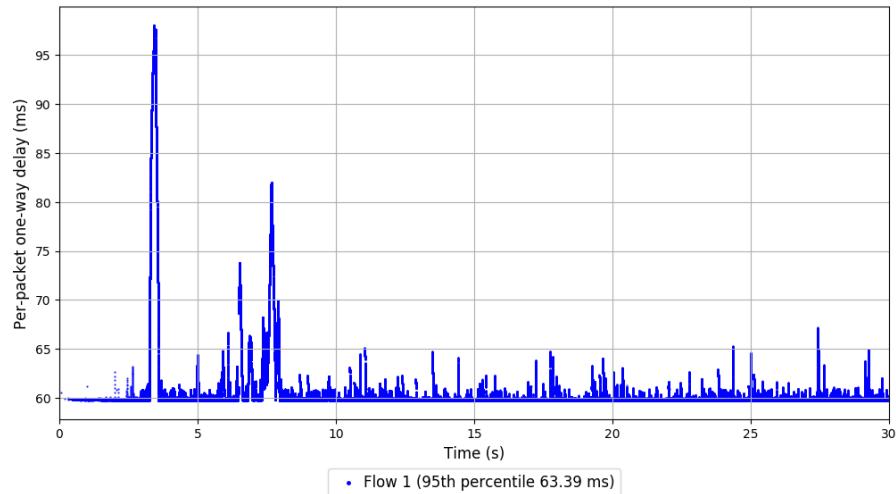
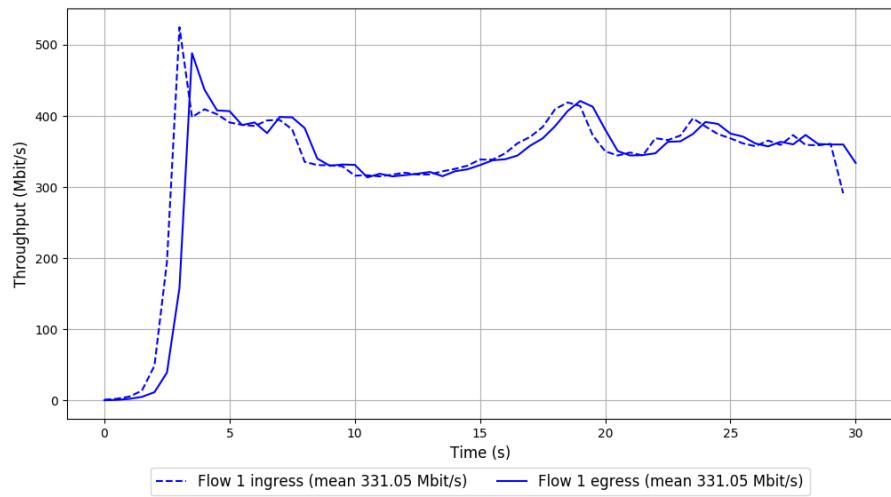


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-12-11 16:41:58
End at: 2019-12-11 16:42:28
Local clock offset: -0.135 ms
Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2019-12-11 20:02:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 331.05 Mbit/s
95th percentile per-packet one-way delay: 63.388 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 331.05 Mbit/s
95th percentile per-packet one-way delay: 63.388 ms
Loss rate: 0.00%
```

Run 4: Report of PCC-Vivace — Data Link

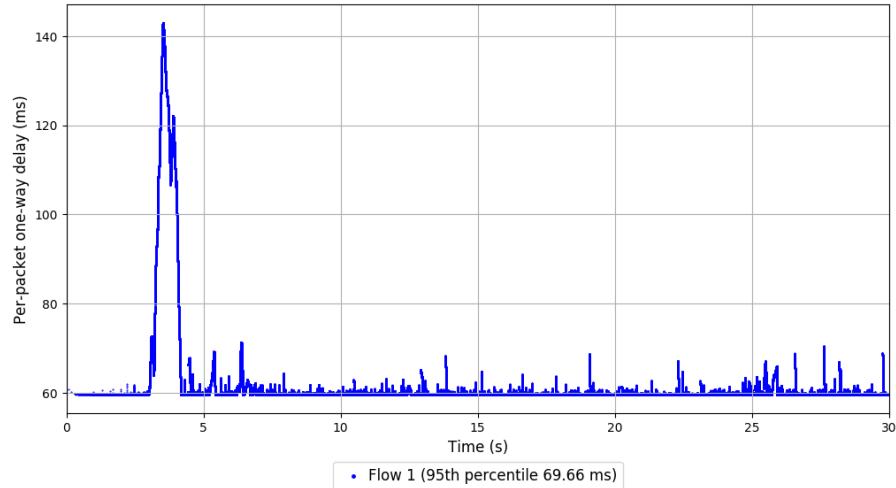
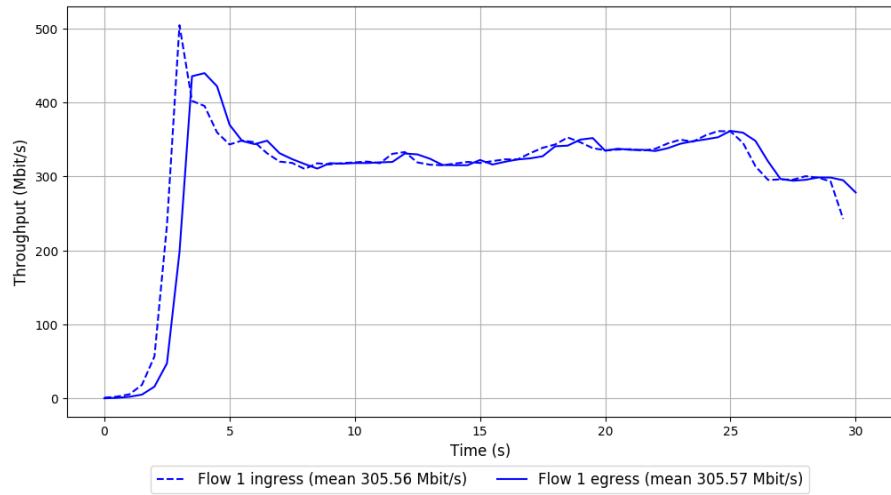


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-12-11 17:17:14
End at: 2019-12-11 17:17:44
Local clock offset: -0.057 ms
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2019-12-11 20:02:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 305.57 Mbit/s
95th percentile per-packet one-way delay: 69.660 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 305.57 Mbit/s
95th percentile per-packet one-way delay: 69.660 ms
Loss rate: 0.00%
```

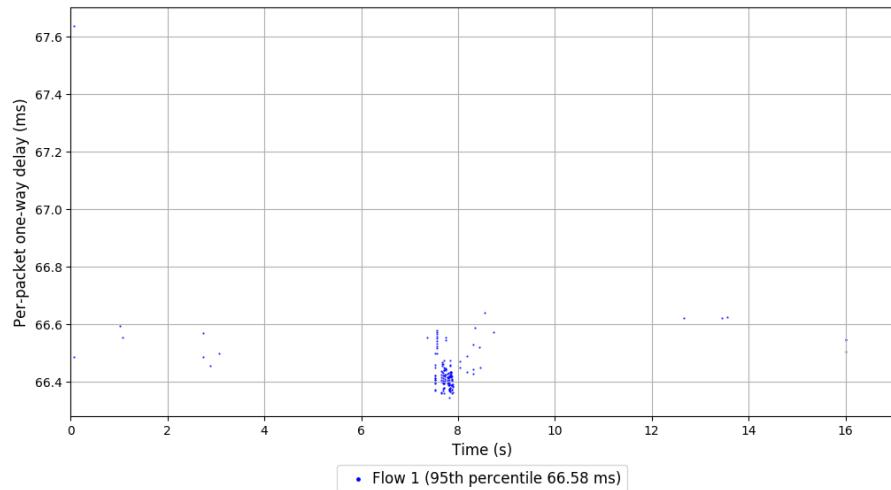
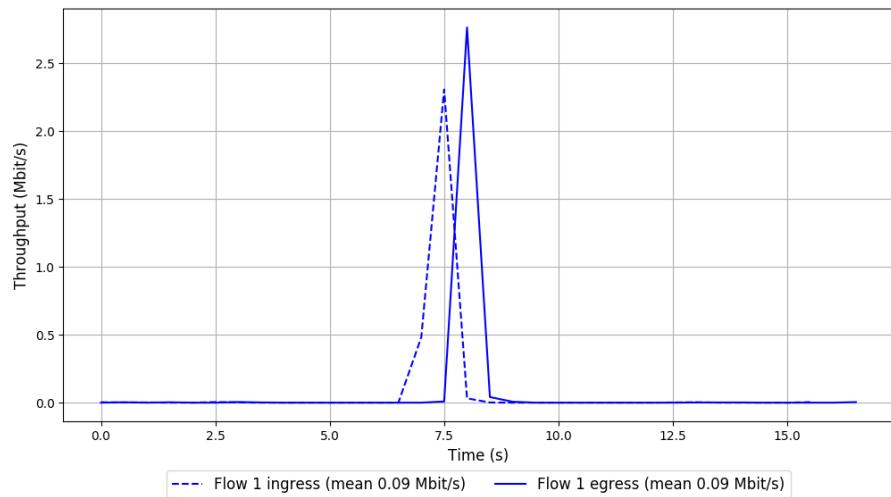
Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-12-11 14:32:57
End at: 2019-12-11 14:33:27
Local clock offset: 0.004 ms
Remote clock offset: -0.225 ms

Run 1: Report of WebRTC media — Data Link

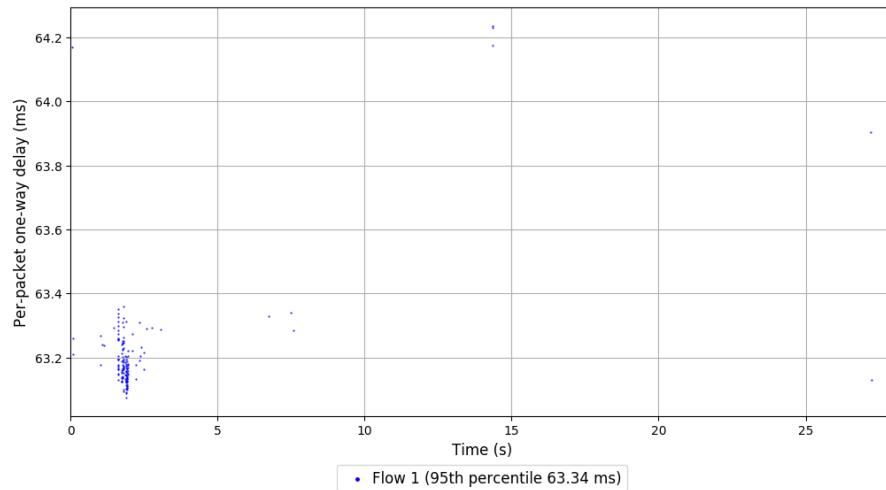
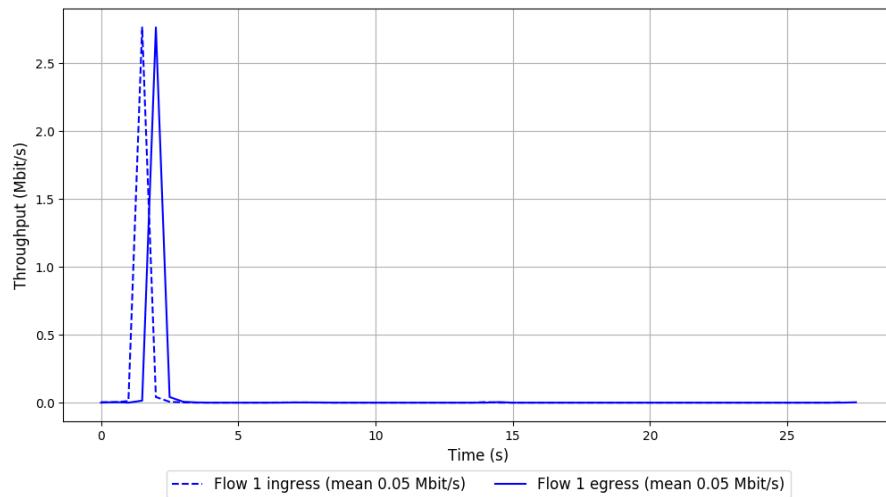


Run 2: Statistics of WebRTC media

```
Start at: 2019-12-11 15:07:55
End at: 2019-12-11 15:08:25
Local clock offset: 0.035 ms
Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2019-12-11 20:02:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.337 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.337 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

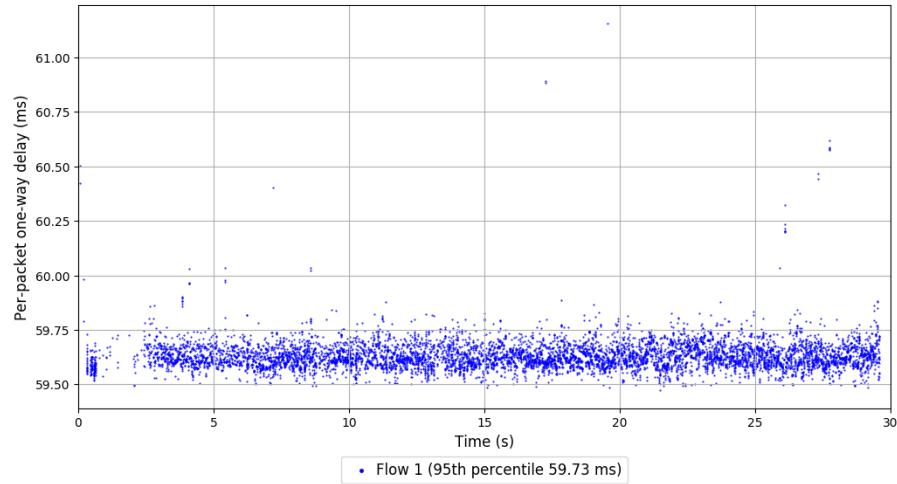
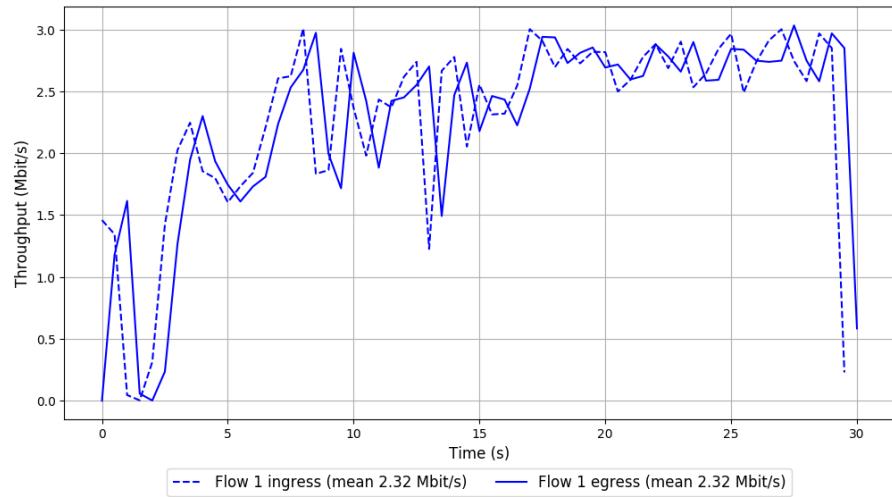


Run 3: Statistics of WebRTC media

```
Start at: 2019-12-11 15:43:16
End at: 2019-12-11 15:43:46
Local clock offset: -0.108 ms
Remote clock offset: -0.186 ms

# Below is generated by plot.py at 2019-12-11 20:02:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 59.729 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 59.729 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

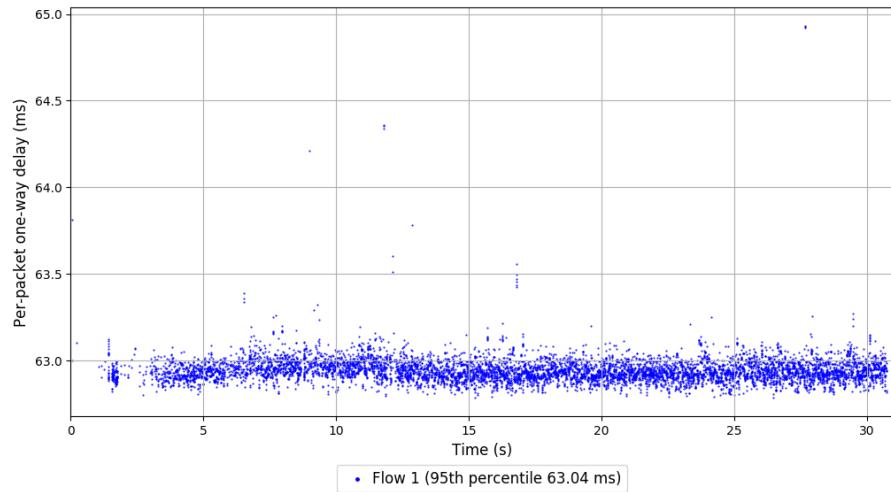
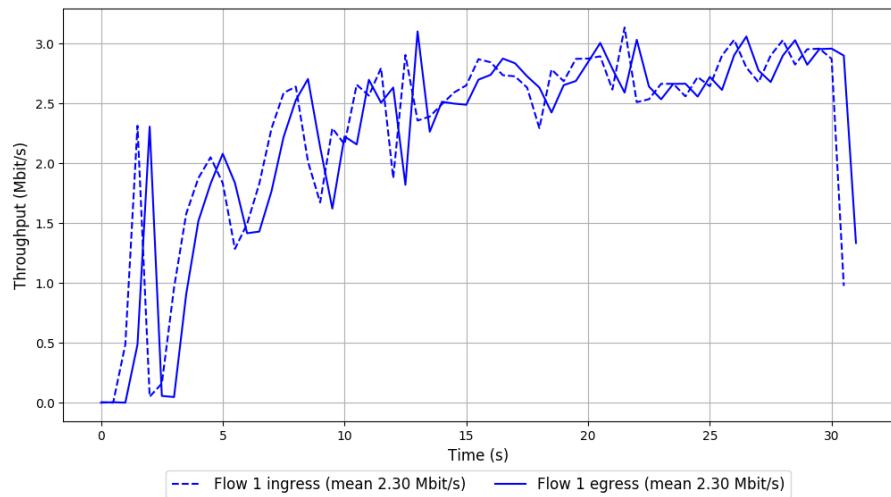


Run 4: Statistics of WebRTC media

```
Start at: 2019-12-11 16:18:37
End at: 2019-12-11 16:19:07
Local clock offset: -0.04 ms
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2019-12-11 20:02:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 63.043 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 63.043 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-12-11 16:53:53
End at: 2019-12-11 16:54:23
Local clock offset: -0.183 ms
Remote clock offset: -0.106 ms

# Below is generated by plot.py at 2019-12-11 20:02:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 65.382 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 65.382 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

