

Pantheon Report

Generated at 2019-02-06 04:50:05 (UTC).
Data path: GCE Sydney on `ens4 (local)` → GCE Tokyo on `ens4 (remote)`.
Repeated the test of 21 congestion control schemes 5 times.
Each test lasted for 30 seconds running 1 flow.
NTP offsets were measured against `time.google.com` and have been applied to correct the timestamps in logs.

System info:

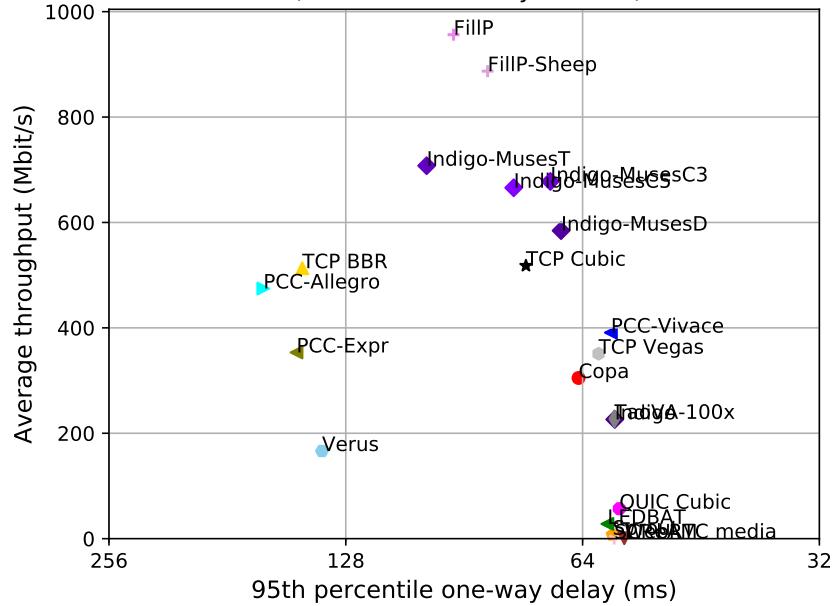
```
Linux 4.15.0-1026-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

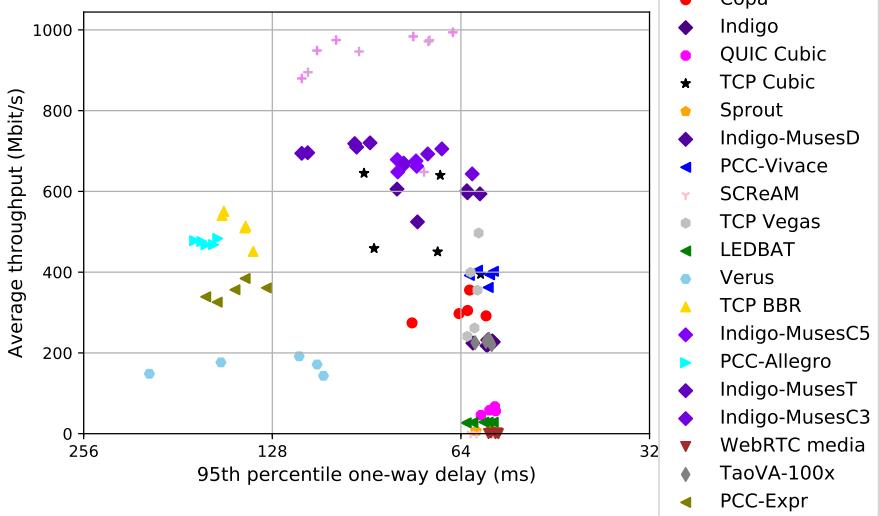
```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

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



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



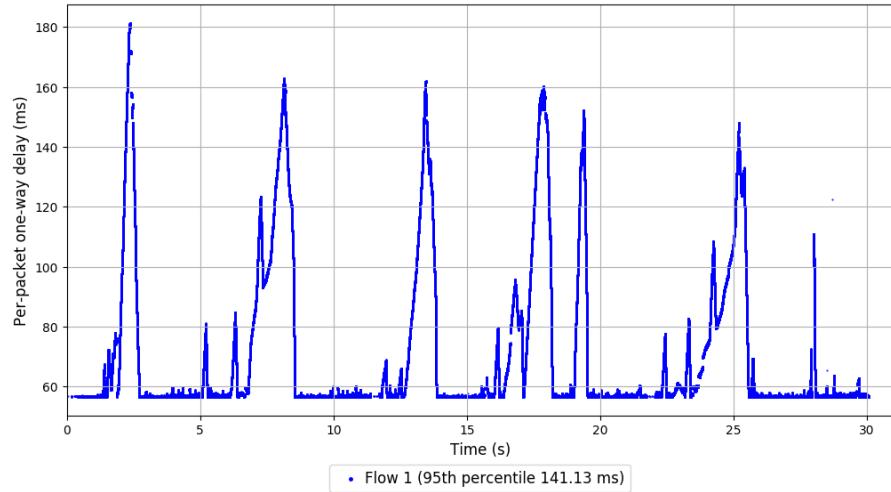
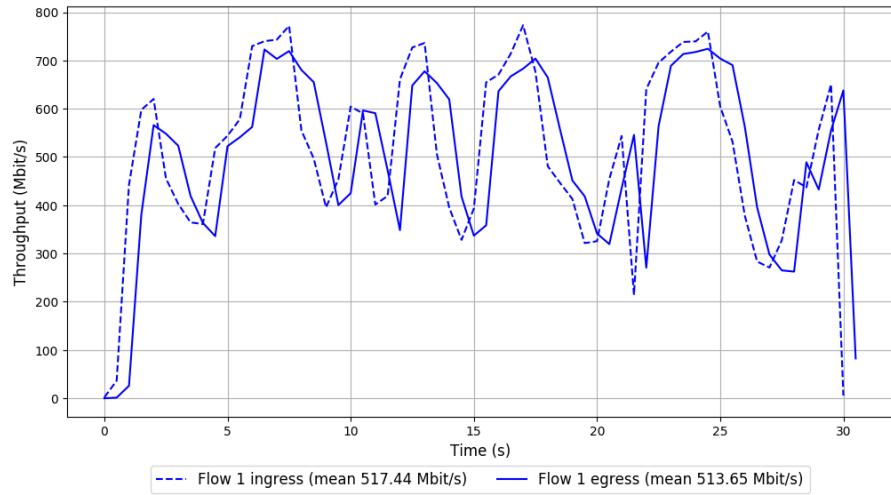
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	513.15	145.38	0.61
Copa	5	304.87	64.76	0.01
TCP Cubic	5	517.88	75.54	0.03
FillP	5	956.25	93.37	0.44
FillP-Sheep	5	887.10	84.51	0.22
Indigo	5	226.24	58.25	0.00
Indigo-MusesC3	4	677.85	70.33	0.01
Indigo-MusesC5	5	665.84	78.29	0.02
Indigo-MusesD	5	584.49	68.16	0.04
Indigo-MusesT	5	707.67	101.02	0.05
LEDBAT	5	28.00	59.52	0.00
PCC-Allegro	5	474.62	162.93	1.76
PCC-Expr	5	353.33	147.87	1.67
QUIC Cubic	4	56.86	57.48	0.01
SCReAM	5	0.22	58.34	0.00
Sprout	5	7.42	58.64	0.08
TaoVA-100x	5	227.36	58.30	0.00
TCP Vegas	5	350.91	61.07	0.02
Verus	5	166.29	137.25	0.79
PCC-Vivace	5	390.95	58.92	0.00
WebRTC media	5	0.84	56.65	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-02-06 00:00:35
End at: 2019-02-06 00:01:05
Local clock offset: -0.319 ms
Remote clock offset: -0.519 ms

# Below is generated by plot.py at 2019-02-06 02:35:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 513.65 Mbit/s
95th percentile per-packet one-way delay: 141.129 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 513.65 Mbit/s
95th percentile per-packet one-way delay: 141.129 ms
Loss rate: 0.73%
```

Run 1: Report of TCP BBR — Data Link

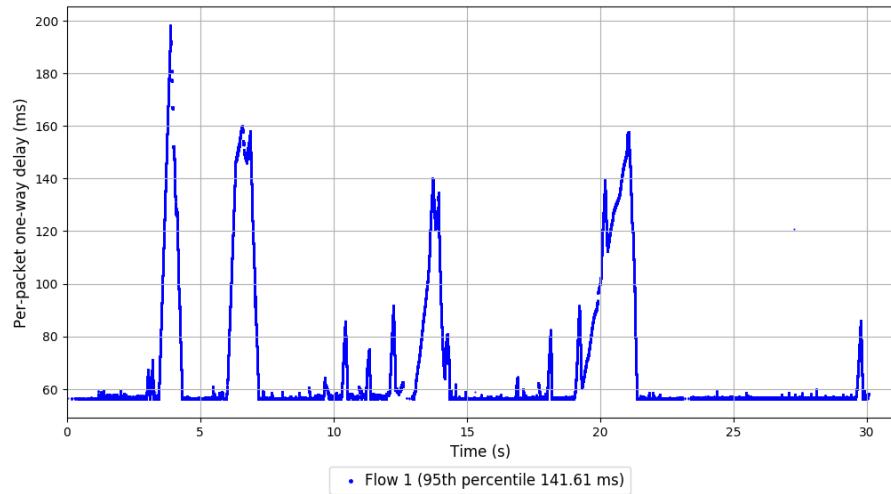
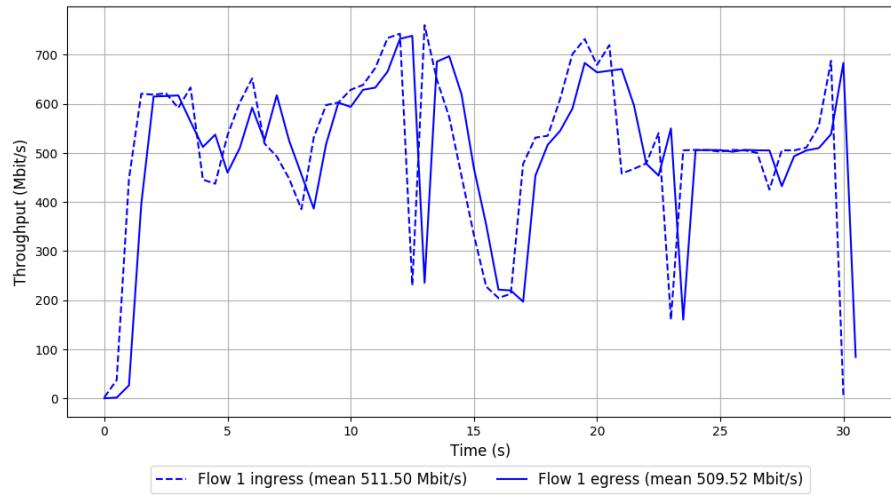


Run 2: Statistics of TCP BBR

```
Start at: 2019-02-06 00:32:39
End at: 2019-02-06 00:33:09
Local clock offset: 0.211 ms
Remote clock offset: -0.731 ms

# Below is generated by plot.py at 2019-02-06 02:35:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 509.52 Mbit/s
95th percentile per-packet one-way delay: 141.606 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 509.52 Mbit/s
95th percentile per-packet one-way delay: 141.606 ms
Loss rate: 0.39%
```

Run 2: Report of TCP BBR — Data Link

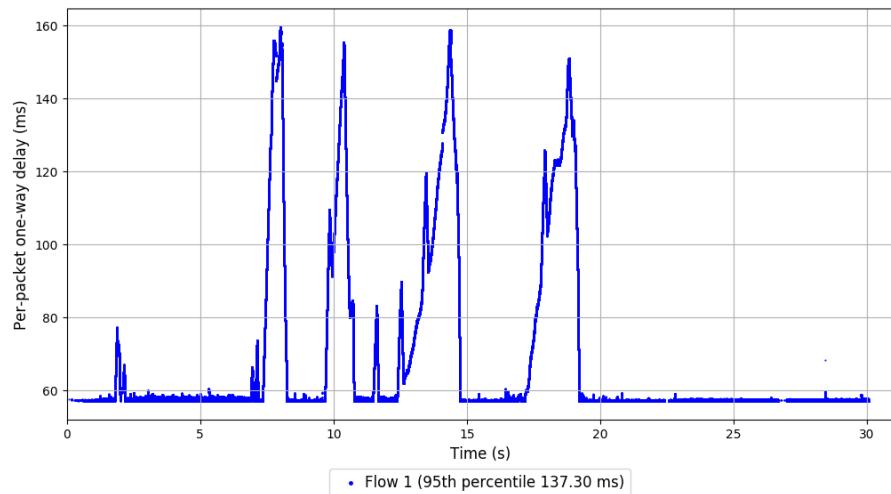
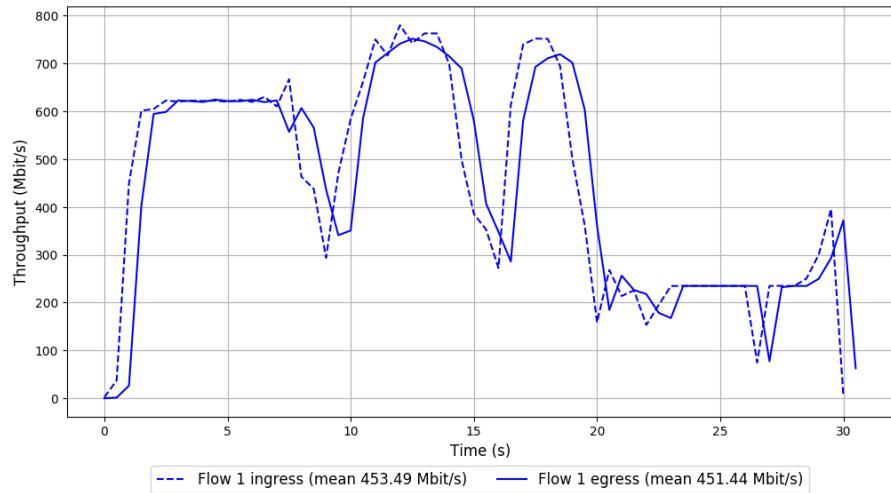


Run 3: Statistics of TCP BBR

```
Start at: 2019-02-06 01:05:14
End at: 2019-02-06 01:05:44
Local clock offset: 0.243 ms
Remote clock offset: 0.469 ms

# Below is generated by plot.py at 2019-02-06 02:35:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 451.44 Mbit/s
95th percentile per-packet one-way delay: 137.296 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 451.44 Mbit/s
95th percentile per-packet one-way delay: 137.296 ms
Loss rate: 0.45%
```

Run 3: Report of TCP BBR — Data Link

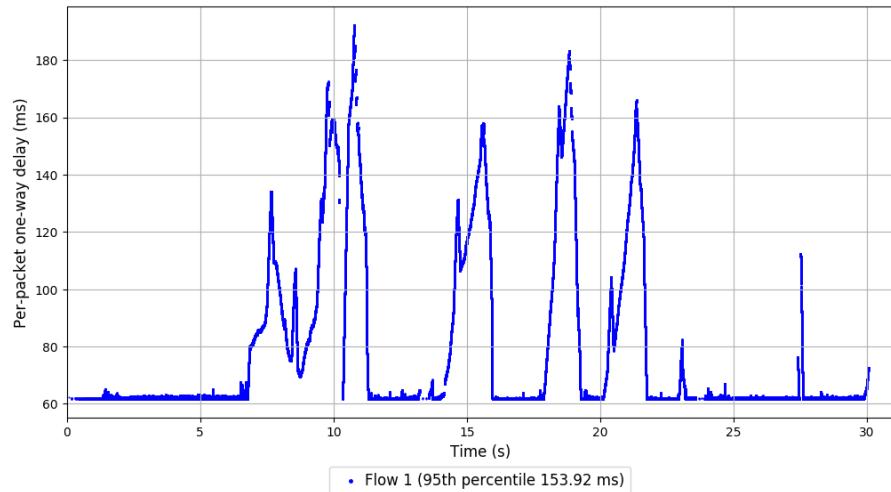
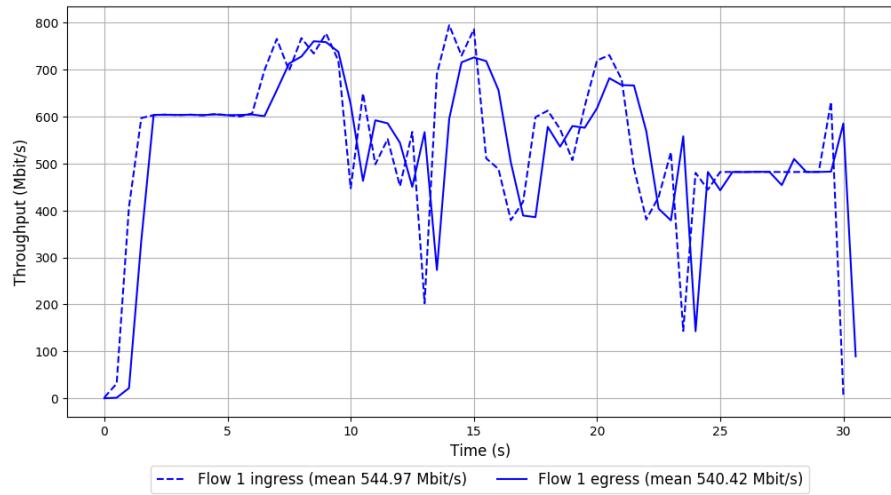


Run 4: Statistics of TCP BBR

```
Start at: 2019-02-06 01:37:52
End at: 2019-02-06 01:38:22
Local clock offset: -0.267 ms
Remote clock offset: 1.086 ms

# Below is generated by plot.py at 2019-02-06 02:35:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 540.42 Mbit/s
95th percentile per-packet one-way delay: 153.916 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 540.42 Mbit/s
95th percentile per-packet one-way delay: 153.916 ms
Loss rate: 0.84%
```

Run 4: Report of TCP BBR — Data Link

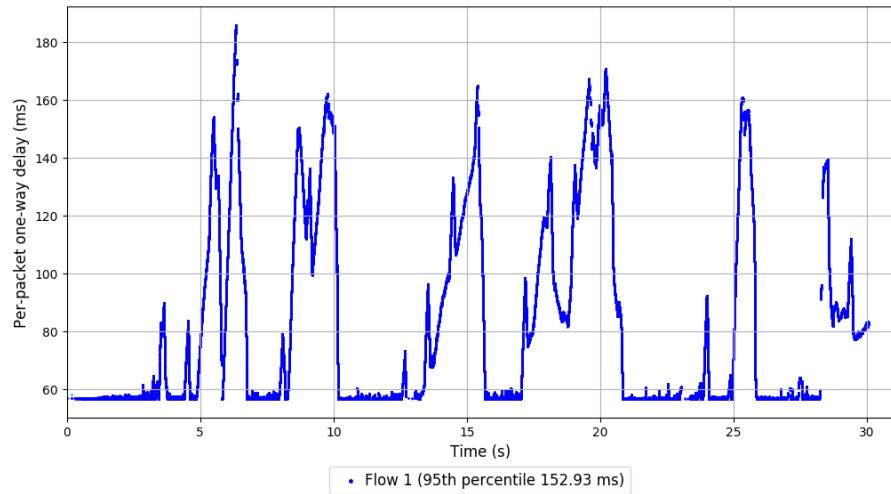
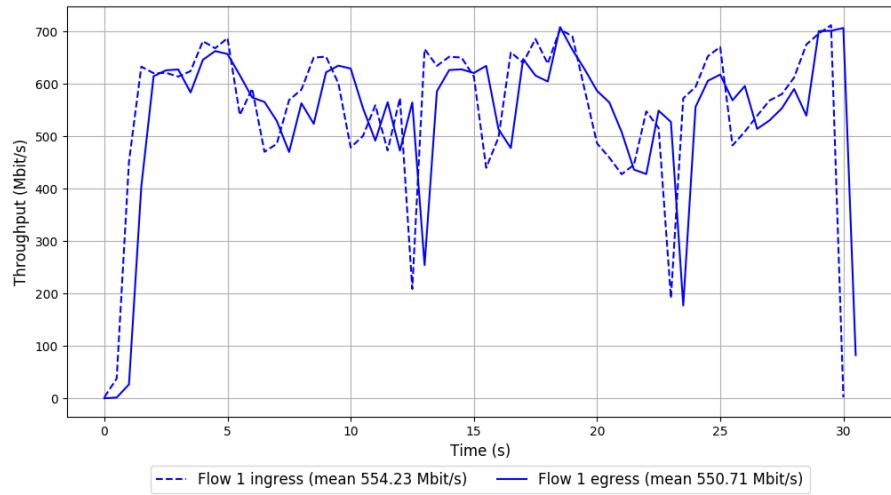


Run 5: Statistics of TCP BBR

```
Start at: 2019-02-06 02:09:57
End at: 2019-02-06 02:10:27
Local clock offset: 0.038 ms
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2019-02-06 02:36:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 550.71 Mbit/s
95th percentile per-packet one-way delay: 152.931 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 550.71 Mbit/s
95th percentile per-packet one-way delay: 152.931 ms
Loss rate: 0.63%
```

Run 5: Report of TCP BBR — Data Link

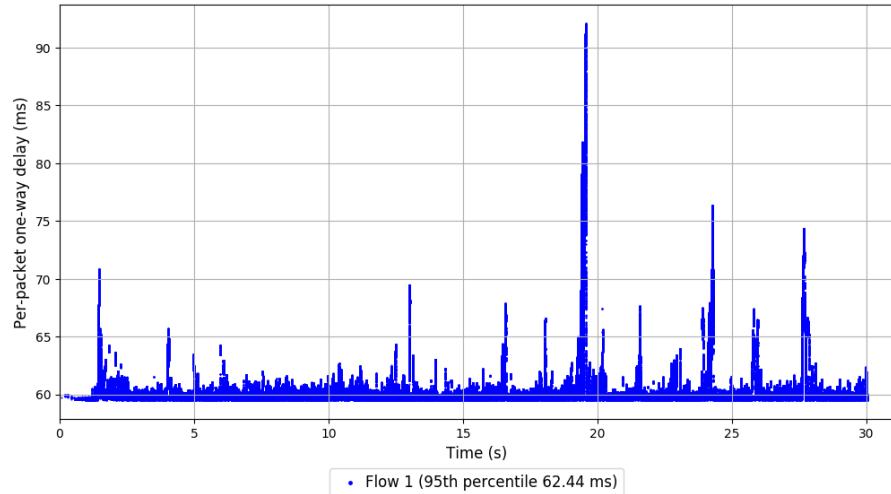
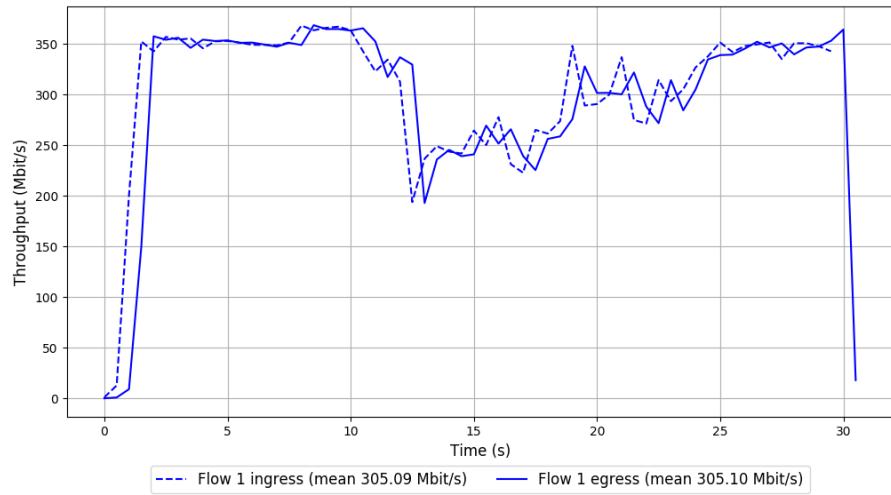


Run 1: Statistics of Copa

```
Start at: 2019-02-05 23:48:25
End at: 2019-02-05 23:48:55
Local clock offset: -0.09 ms
Remote clock offset: -0.63 ms

# Below is generated by plot.py at 2019-02-06 02:36:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 305.10 Mbit/s
95th percentile per-packet one-way delay: 62.440 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 305.10 Mbit/s
95th percentile per-packet one-way delay: 62.440 ms
Loss rate: 0.01%
```

Run 1: Report of Copa — Data Link

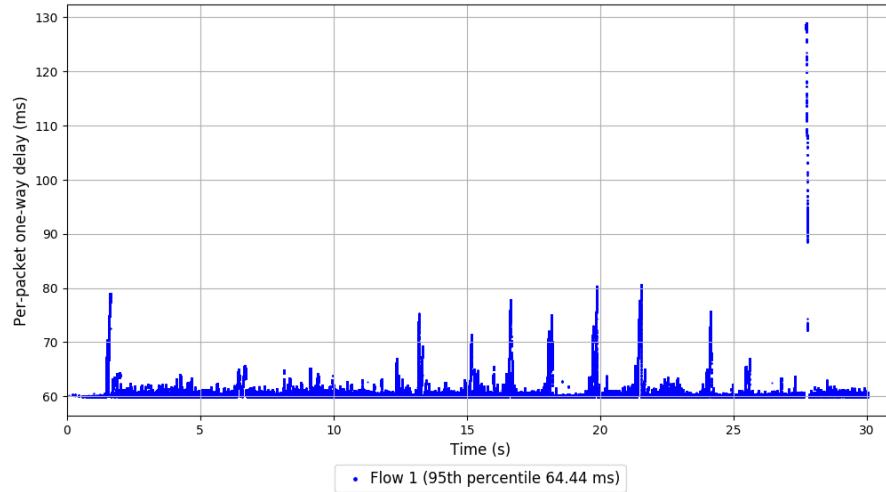
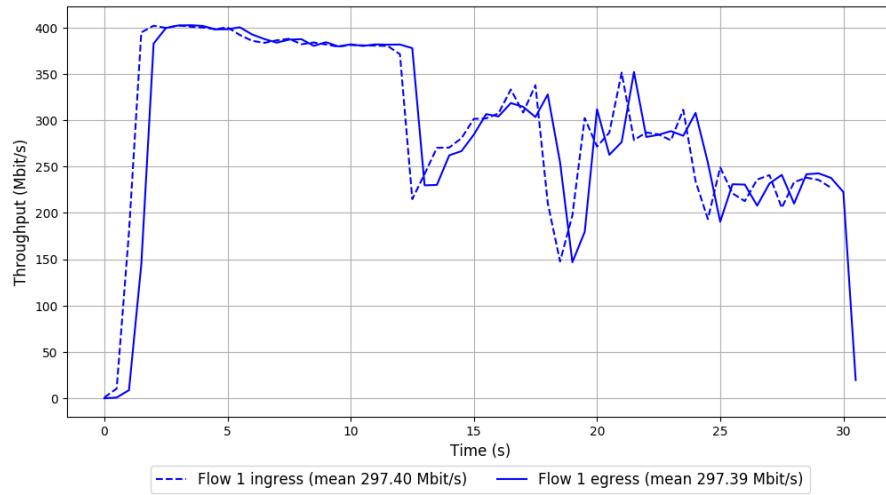


Run 2: Statistics of Copa

```
Start at: 2019-02-06 00:19:57
End at: 2019-02-06 00:20:27
Local clock offset: 0.354 ms
Remote clock offset: -0.187 ms

# Below is generated by plot.py at 2019-02-06 02:36:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 297.39 Mbit/s
95th percentile per-packet one-way delay: 64.436 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 297.39 Mbit/s
95th percentile per-packet one-way delay: 64.436 ms
Loss rate: 0.01%
```

Run 2: Report of Copa — Data Link

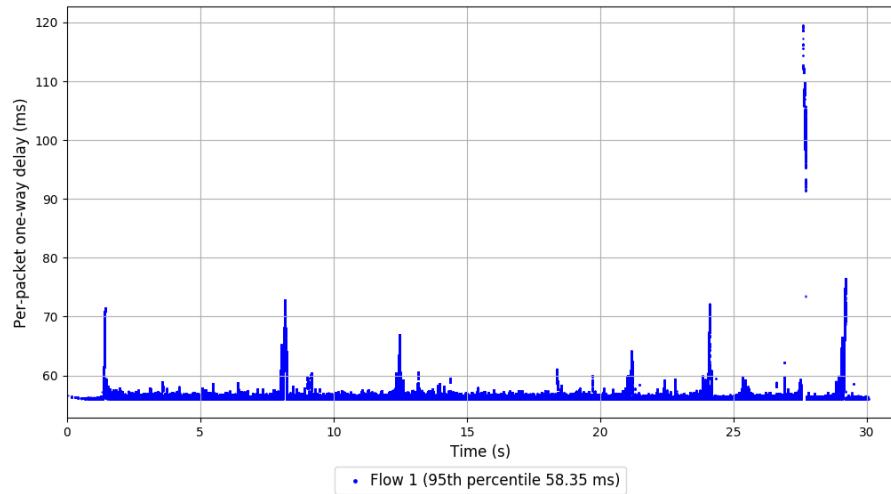
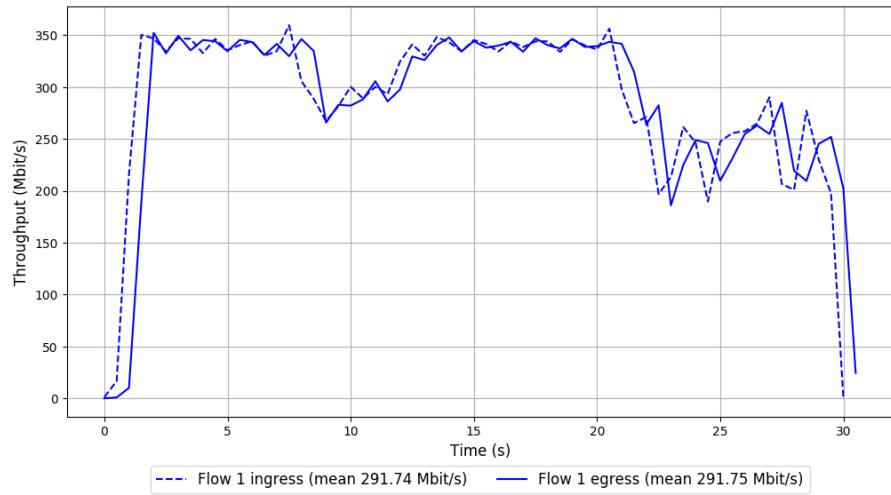


Run 3: Statistics of Copa

```
Start at: 2019-02-06 00:52:20
End at: 2019-02-06 00:52:50
Local clock offset: -0.032 ms
Remote clock offset: -0.765 ms

# Below is generated by plot.py at 2019-02-06 02:36:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 291.75 Mbit/s
95th percentile per-packet one-way delay: 58.349 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 291.75 Mbit/s
95th percentile per-packet one-way delay: 58.349 ms
Loss rate: 0.00%
```

Run 3: Report of Copa — Data Link

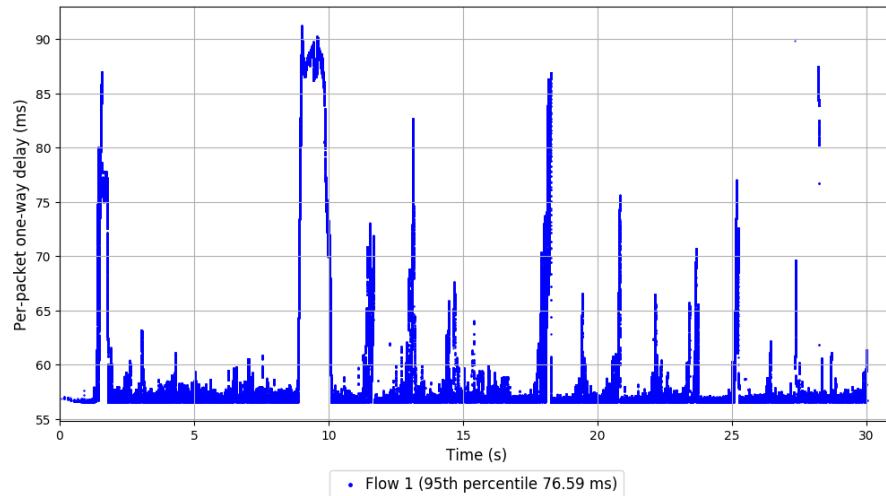
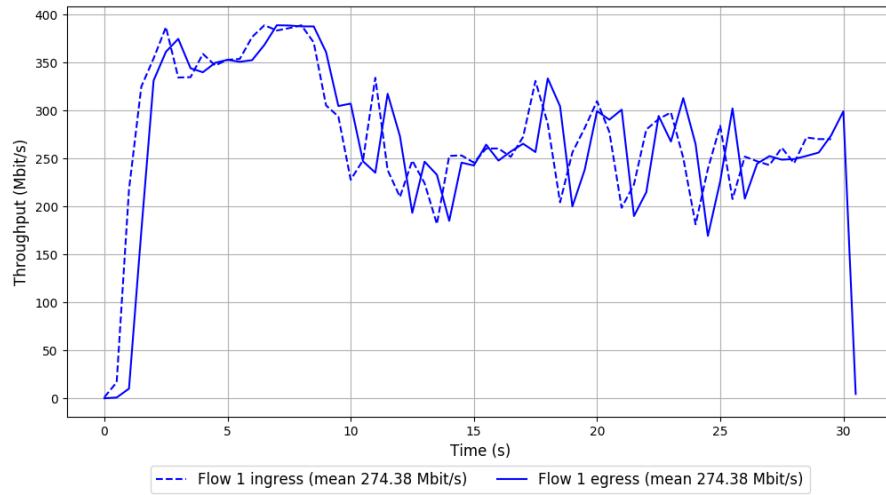


Run 4: Statistics of Copa

```
Start at: 2019-02-06 01:25:05
End at: 2019-02-06 01:25:35
Local clock offset: 0.233 ms
Remote clock offset: -0.145 ms

# Below is generated by plot.py at 2019-02-06 02:44:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 274.38 Mbit/s
95th percentile per-packet one-way delay: 76.591 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 274.38 Mbit/s
95th percentile per-packet one-way delay: 76.591 ms
Loss rate: 0.00%
```

Run 4: Report of Copa — Data Link

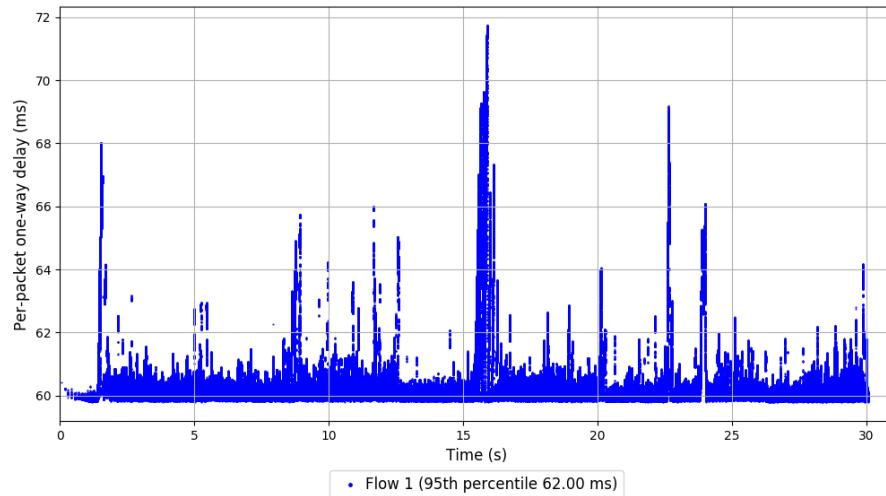
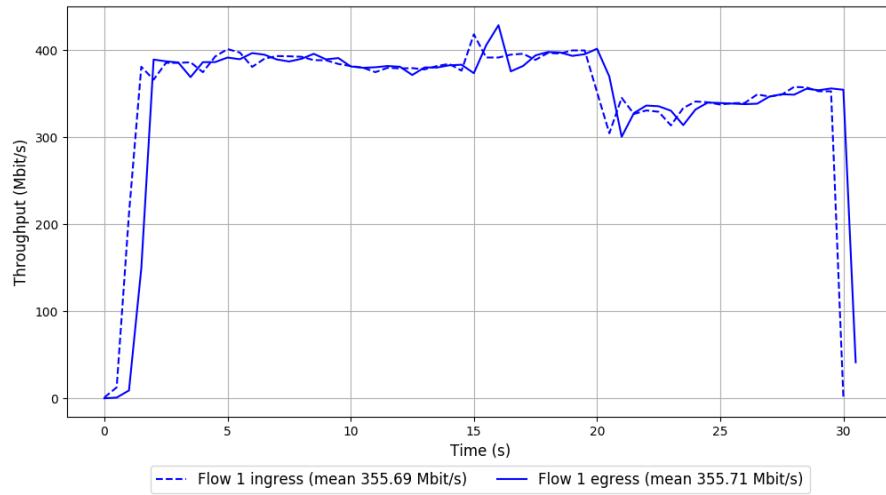


Run 5: Statistics of Copa

```
Start at: 2019-02-06 01:57:39
End at: 2019-02-06 01:58:09
Local clock offset: 0.211 ms
Remote clock offset: -0.255 ms

# Below is generated by plot.py at 2019-02-06 02:49:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 355.71 Mbit/s
95th percentile per-packet one-way delay: 61.999 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 355.71 Mbit/s
95th percentile per-packet one-way delay: 61.999 ms
Loss rate: 0.01%
```

Run 5: Report of Copa — Data Link

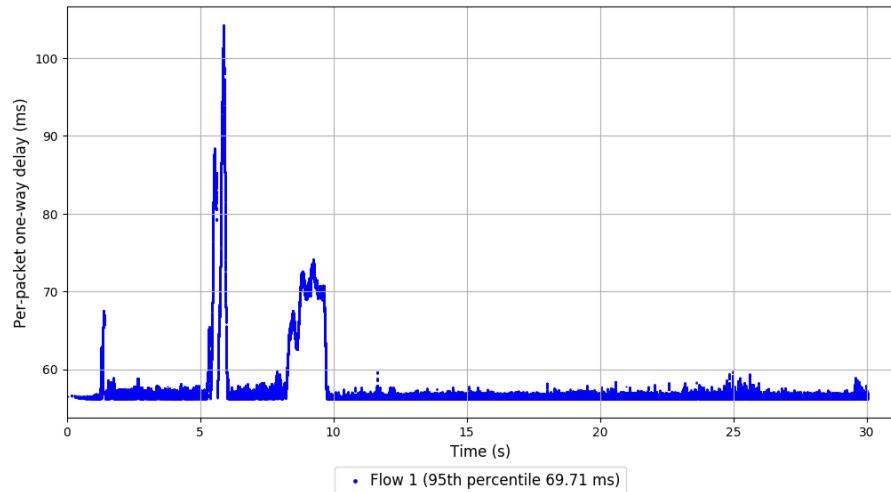
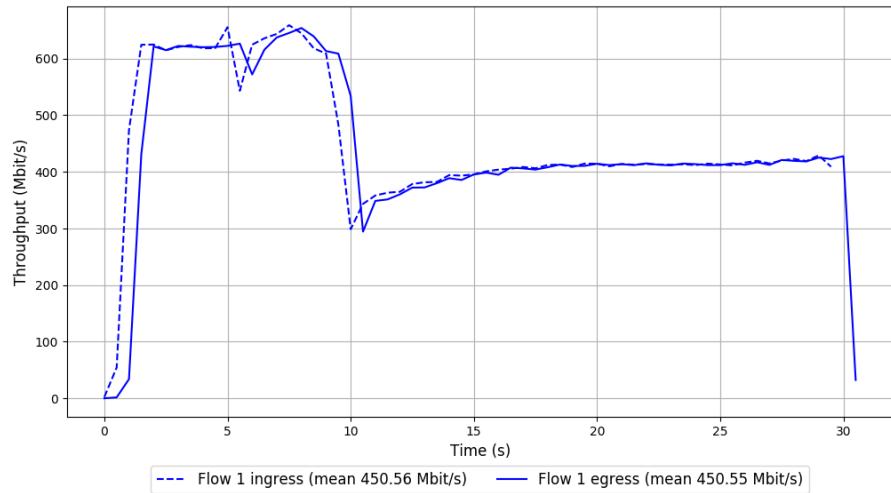


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-02-05 23:59:05
End at: 2019-02-05 23:59:35
Local clock offset: -0.091 ms
Remote clock offset: -0.67 ms

# Below is generated by plot.py at 2019-02-06 02:49:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 450.55 Mbit/s
95th percentile per-packet one-way delay: 69.713 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 450.55 Mbit/s
95th percentile per-packet one-way delay: 69.713 ms
Loss rate: 0.00%
```

Run 1: Report of TCP Cubic — Data Link

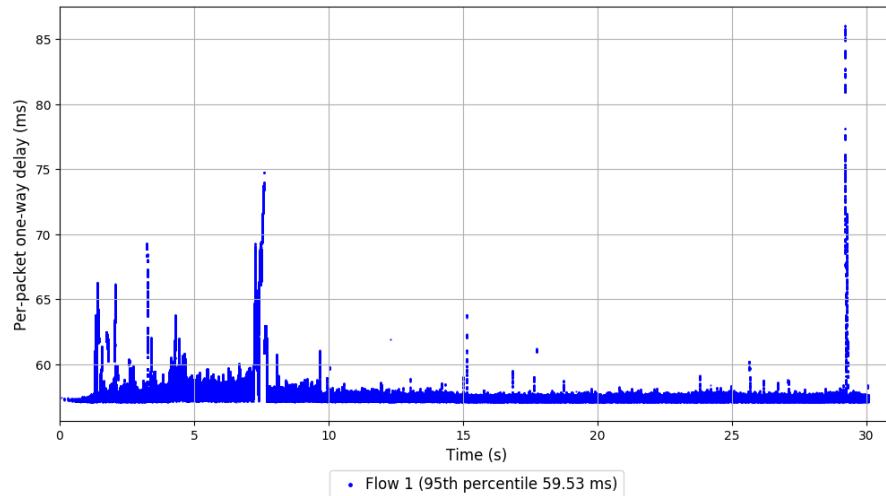
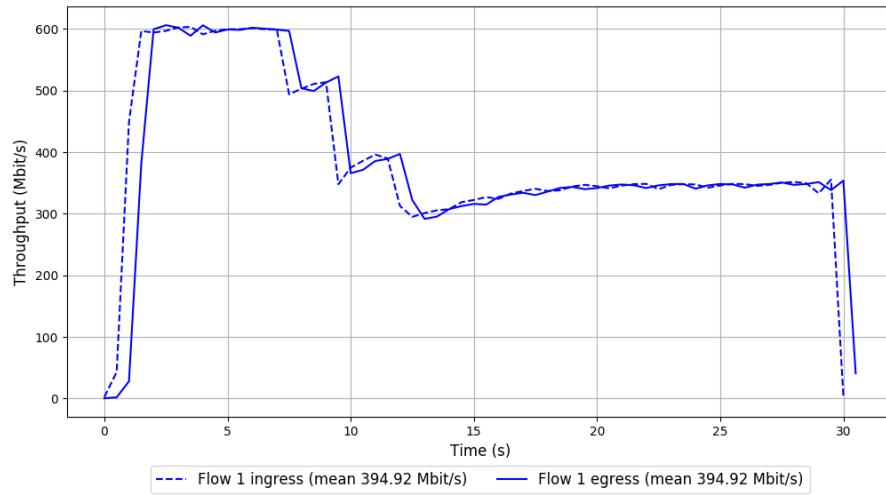


Run 2: Statistics of TCP Cubic

```
Start at: 2019-02-06 00:31:09
End at: 2019-02-06 00:31:39
Local clock offset: 0.376 ms
Remote clock offset: 0.392 ms

# Below is generated by plot.py at 2019-02-06 02:49:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 394.92 Mbit/s
95th percentile per-packet one-way delay: 59.531 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 394.92 Mbit/s
95th percentile per-packet one-way delay: 59.531 ms
Loss rate: 0.00%
```

Run 2: Report of TCP Cubic — Data Link

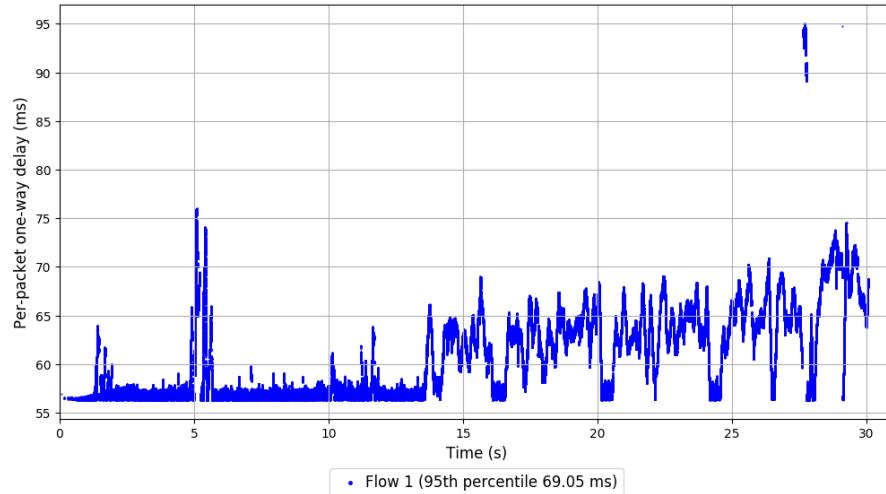
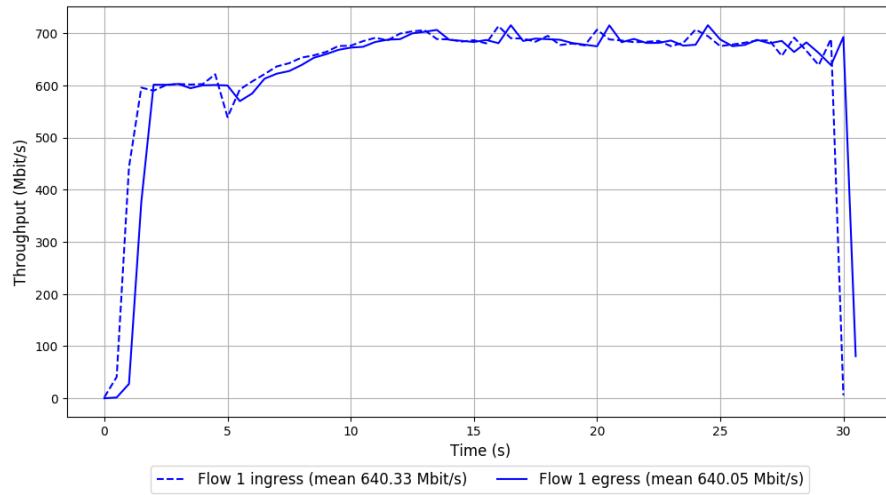


Run 3: Statistics of TCP Cubic

```
Start at: 2019-02-06 01:03:35
End at: 2019-02-06 01:04:05
Local clock offset: -0.314 ms
Remote clock offset: -1.338 ms

# Below is generated by plot.py at 2019-02-06 02:49:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 640.05 Mbit/s
95th percentile per-packet one-way delay: 69.051 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 640.05 Mbit/s
95th percentile per-packet one-way delay: 69.051 ms
Loss rate: 0.04%
```

Run 3: Report of TCP Cubic — Data Link

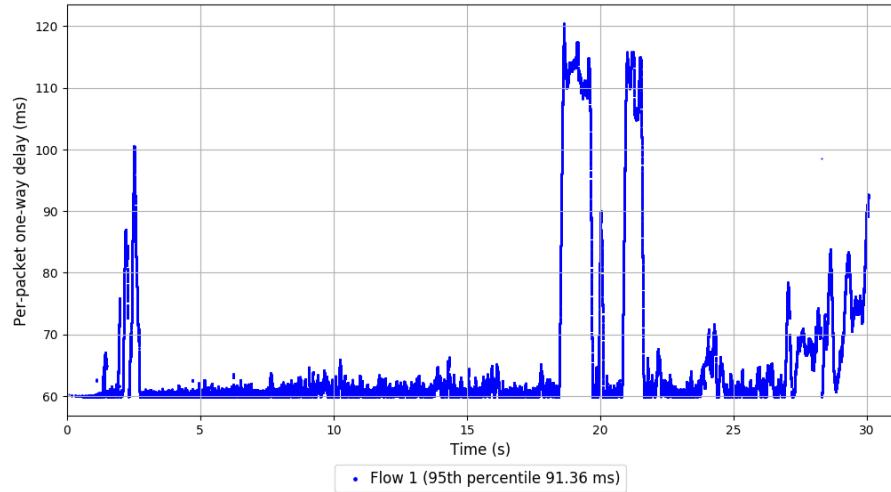
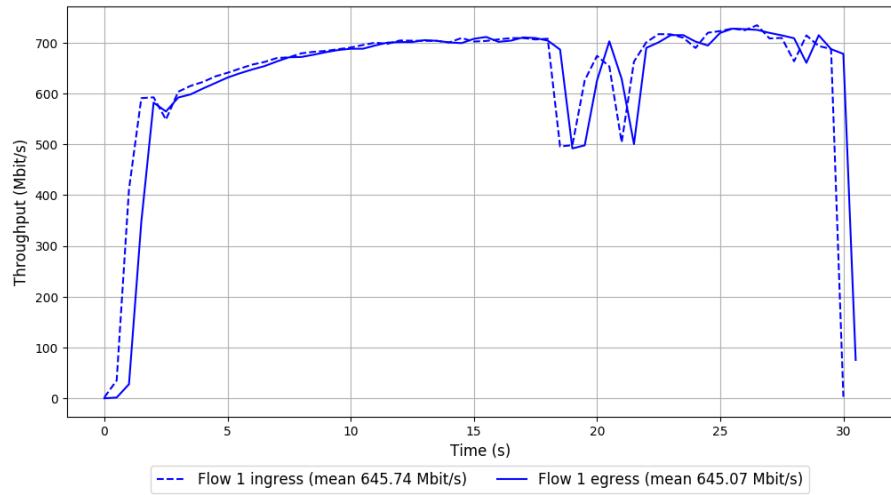


Run 4: Statistics of TCP Cubic

```
Start at: 2019-02-06 01:36:03
End at: 2019-02-06 01:36:33
Local clock offset: -0.012 ms
Remote clock offset: -0.234 ms

# Below is generated by plot.py at 2019-02-06 02:50:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 645.07 Mbit/s
95th percentile per-packet one-way delay: 91.357 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 645.07 Mbit/s
95th percentile per-packet one-way delay: 91.357 ms
Loss rate: 0.11%
```

Run 4: Report of TCP Cubic — Data Link

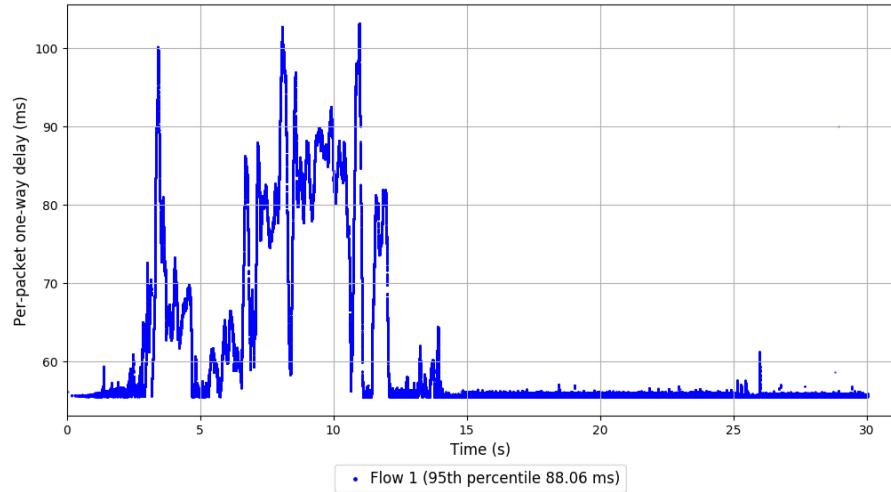
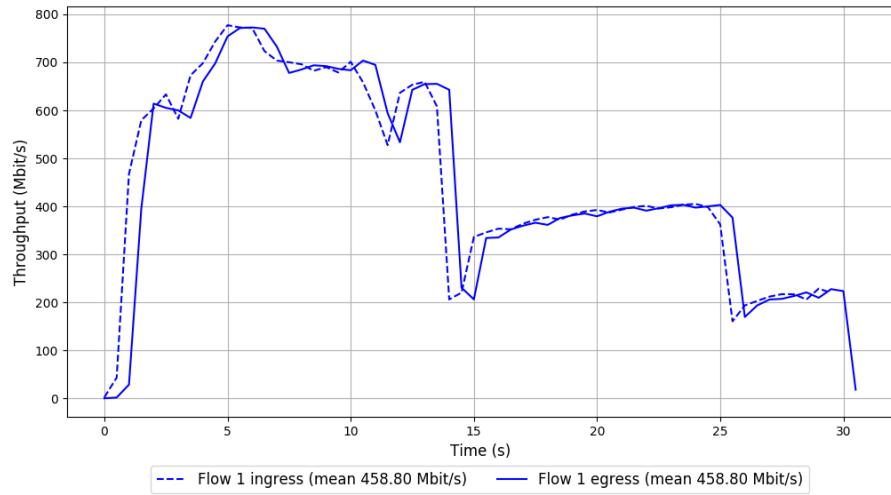


Run 5: Statistics of TCP Cubic

```
Start at: 2019-02-06 02:08:26
End at: 2019-02-06 02:08:56
Local clock offset: -0.09 ms
Remote clock offset: -1.375 ms

# Below is generated by plot.py at 2019-02-06 02:50:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 458.80 Mbit/s
95th percentile per-packet one-way delay: 88.062 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 458.80 Mbit/s
95th percentile per-packet one-way delay: 88.062 ms
Loss rate: 0.00%
```

Run 5: Report of TCP Cubic — Data Link

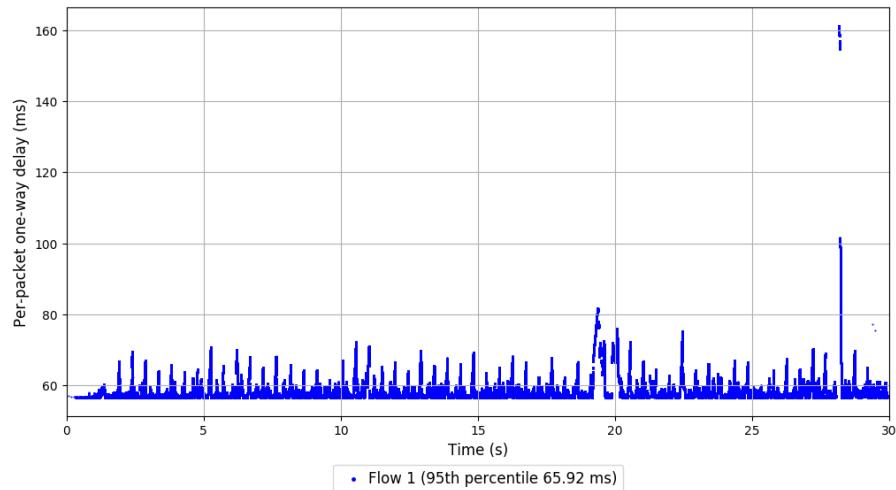
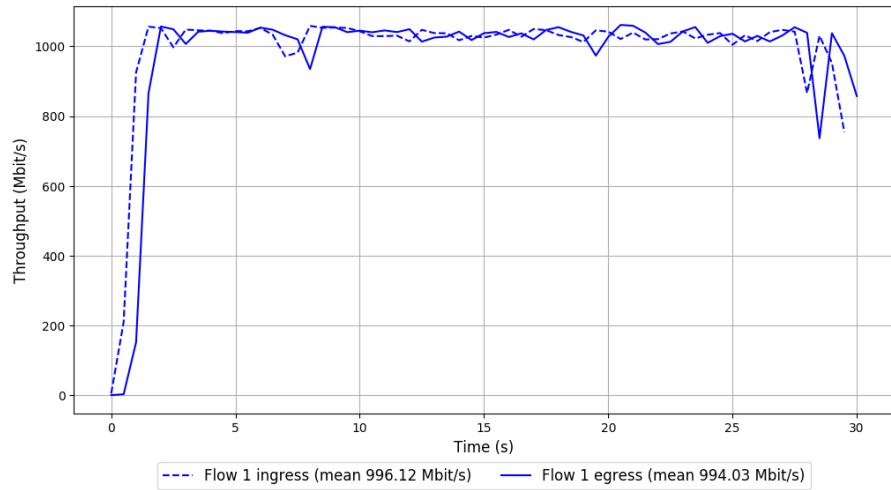


```
Run 1: Statistics of FillP

Start at: 2019-02-05 23:35:36
End at: 2019-02-05 23:36:06
Local clock offset: -0.535 ms
Remote clock offset: -0.863 ms

# Below is generated by plot.py at 2019-02-06 03:01:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 994.03 Mbit/s
95th percentile per-packet one-way delay: 65.915 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 994.03 Mbit/s
95th percentile per-packet one-way delay: 65.915 ms
Loss rate: 0.21%
```

Run 1: Report of FillP — Data Link

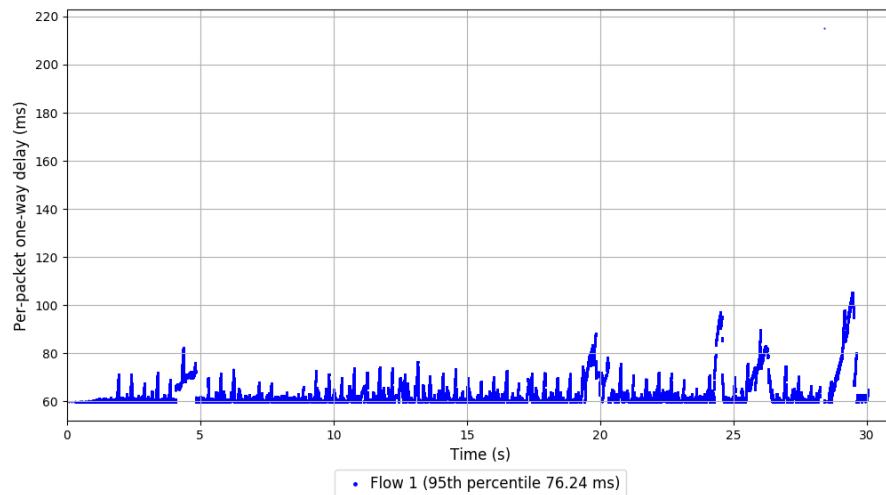
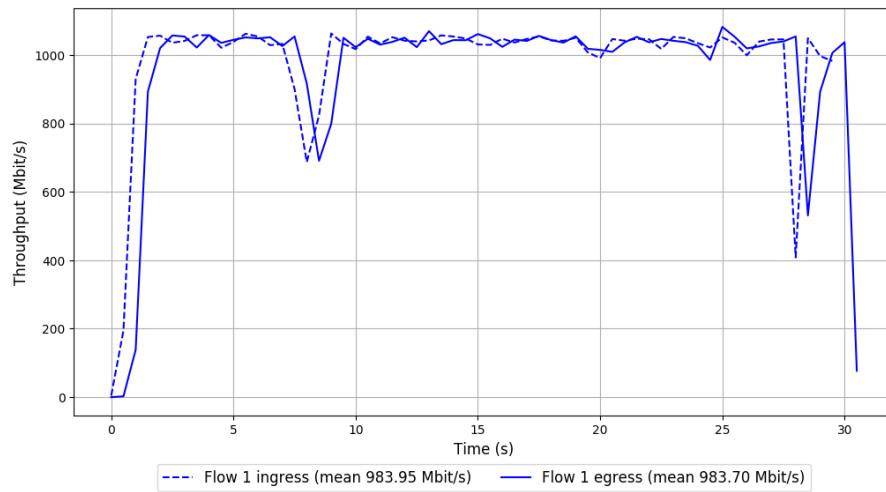


Run 2: Statistics of FillP

```
Start at: 2019-02-06 00:06:33
End at: 2019-02-06 00:07:03
Local clock offset: 0.149 ms
Remote clock offset: -0.53 ms

# Below is generated by plot.py at 2019-02-06 03:12:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 983.70 Mbit/s
95th percentile per-packet one-way delay: 76.244 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 983.70 Mbit/s
95th percentile per-packet one-way delay: 76.244 ms
Loss rate: 0.03%
```

Run 2: Report of FillP — Data Link

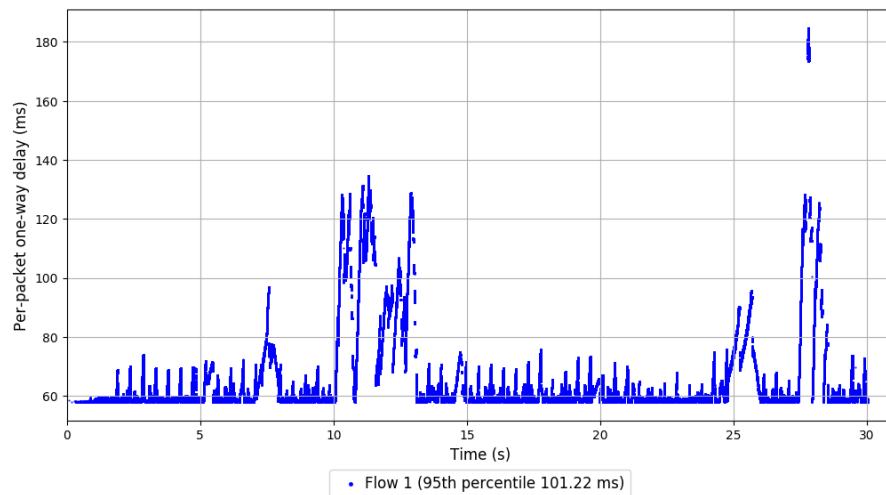
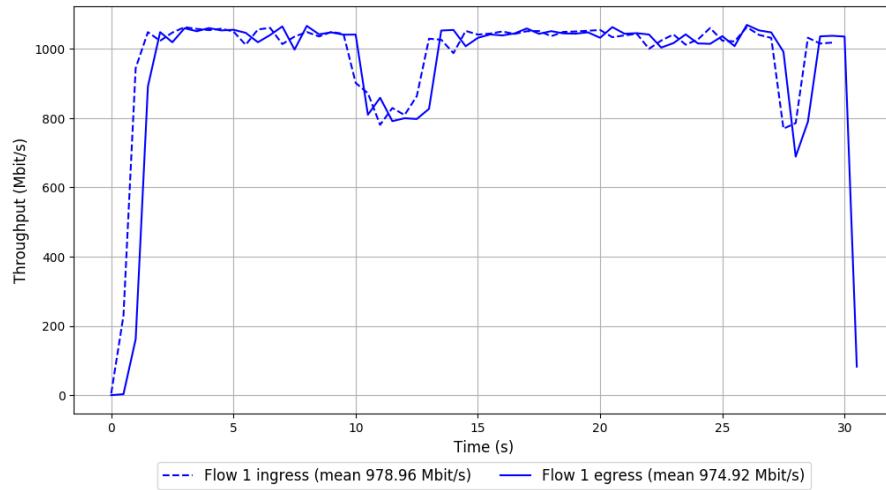


```
Run 3: Statistics of FillP
```

```
Start at: 2019-02-06 00:38:45
End at: 2019-02-06 00:39:15
Local clock offset: -0.087 ms
Remote clock offset: 0.484 ms

# Below is generated by plot.py at 2019-02-06 03:13:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 974.92 Mbit/s
95th percentile per-packet one-way delay: 101.225 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 974.92 Mbit/s
95th percentile per-packet one-way delay: 101.225 ms
Loss rate: 0.41%
```

Run 3: Report of FillP — Data Link

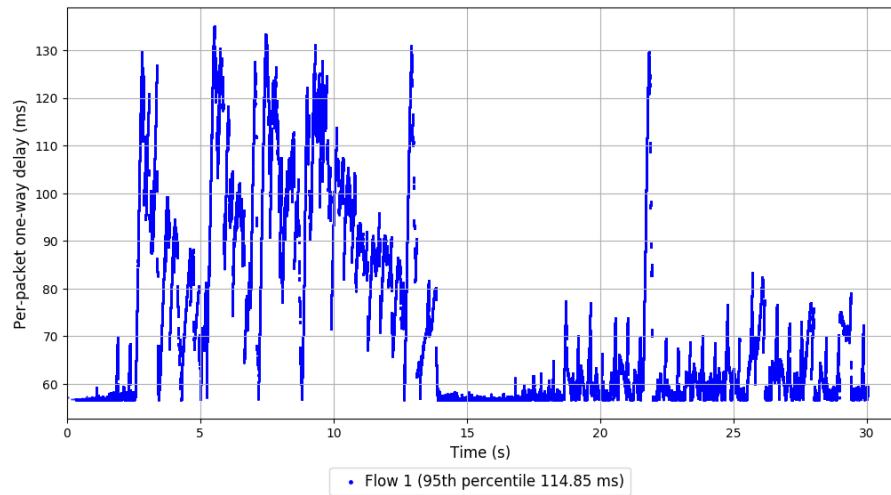
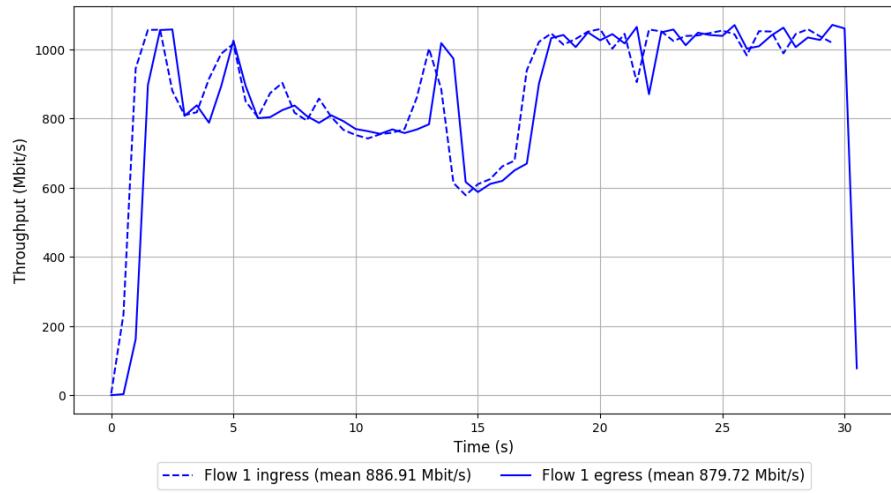


```
Run 4: Statistics of FillP
```

```
Start at: 2019-02-06 01:11:17
End at: 2019-02-06 01:11:47
Local clock offset: 0.333 ms
Remote clock offset: -0.158 ms

# Below is generated by plot.py at 2019-02-06 03:13:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 879.72 Mbit/s
95th percentile per-packet one-way delay: 114.854 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 879.72 Mbit/s
95th percentile per-packet one-way delay: 114.854 ms
Loss rate: 0.81%
```

Run 4: Report of FillP — Data Link

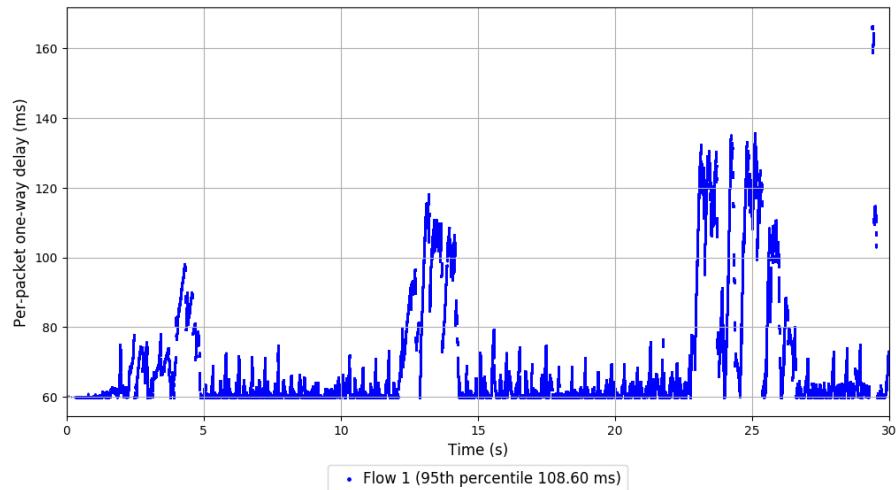
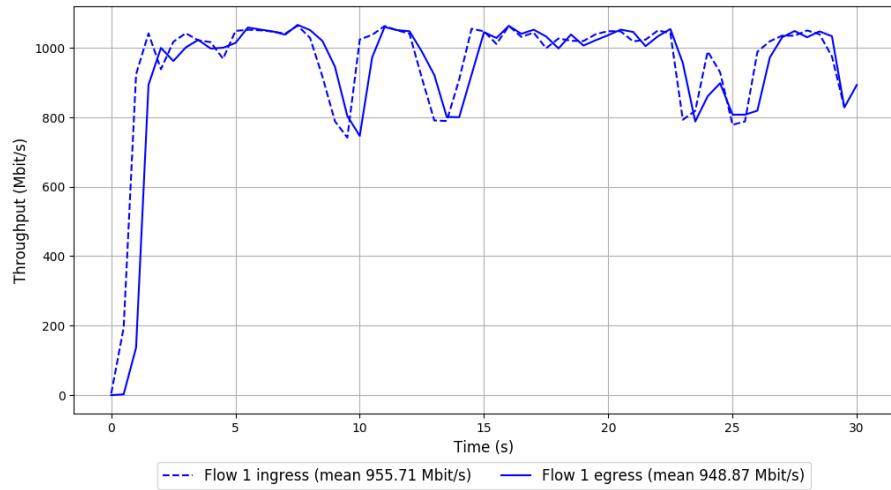


```
Run 5: Statistics of FillP
```

```
Start at: 2019-02-06 01:44:23
End at: 2019-02-06 01:44:53
Local clock offset: 0.402 ms
Remote clock offset: -0.449 ms

# Below is generated by plot.py at 2019-02-06 03:13:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 948.87 Mbit/s
95th percentile per-packet one-way delay: 108.601 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 948.87 Mbit/s
95th percentile per-packet one-way delay: 108.601 ms
Loss rate: 0.73%
```

Run 5: Report of FillP — Data Link

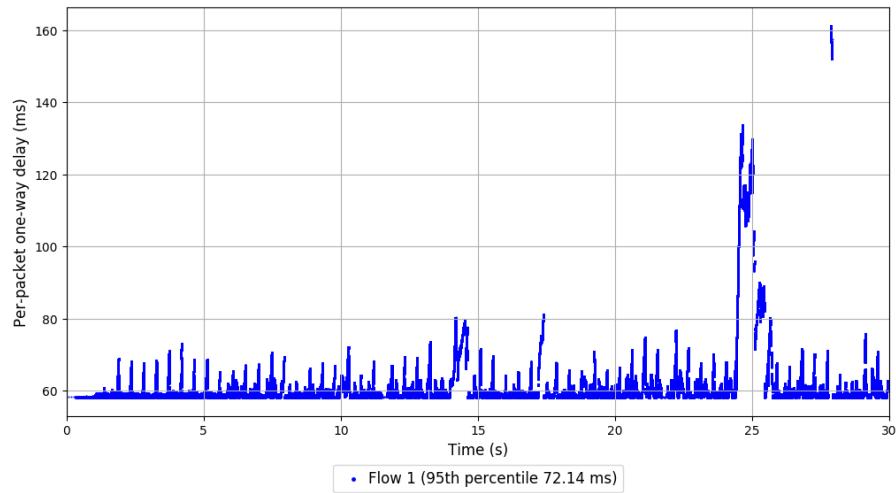
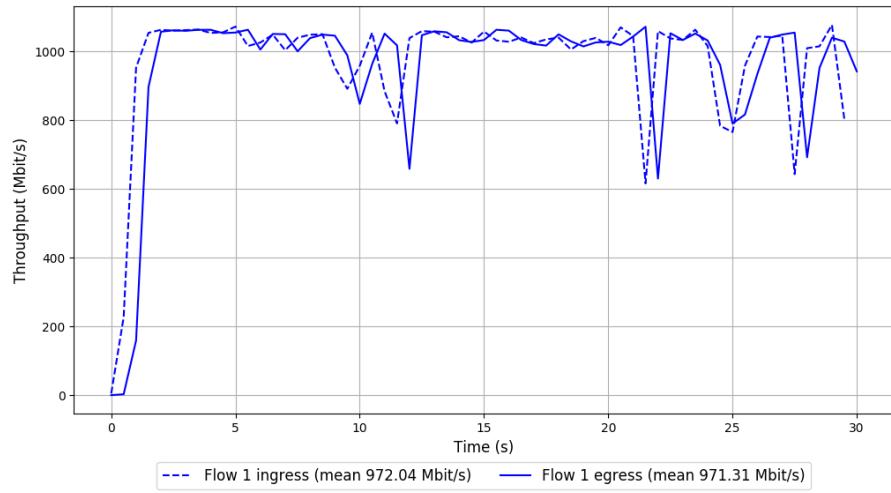


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-02-05 23:53:20
End at: 2019-02-05 23:53:50
Local clock offset: -0.098 ms
Remote clock offset: 1.299 ms

# Below is generated by plot.py at 2019-02-06 03:16:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 971.31 Mbit/s
95th percentile per-packet one-way delay: 72.142 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 971.31 Mbit/s
95th percentile per-packet one-way delay: 72.142 ms
Loss rate: 0.07%
```

Run 1: Report of FillP-Sheep — Data Link

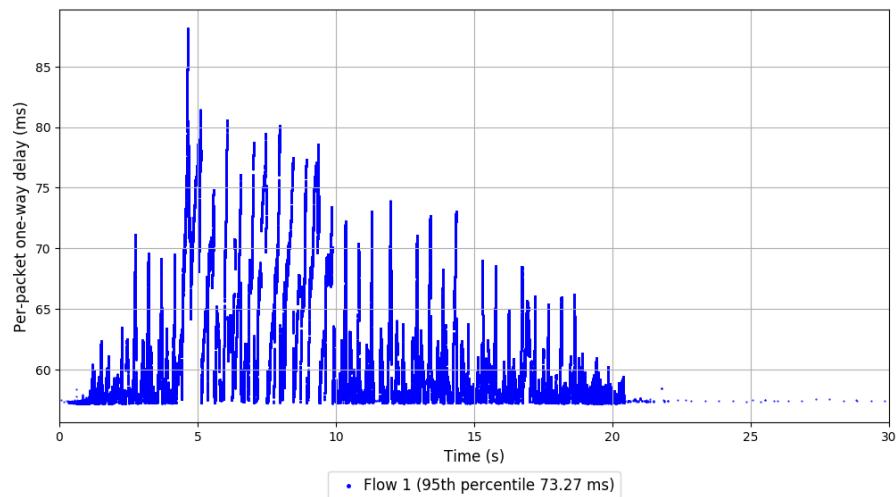
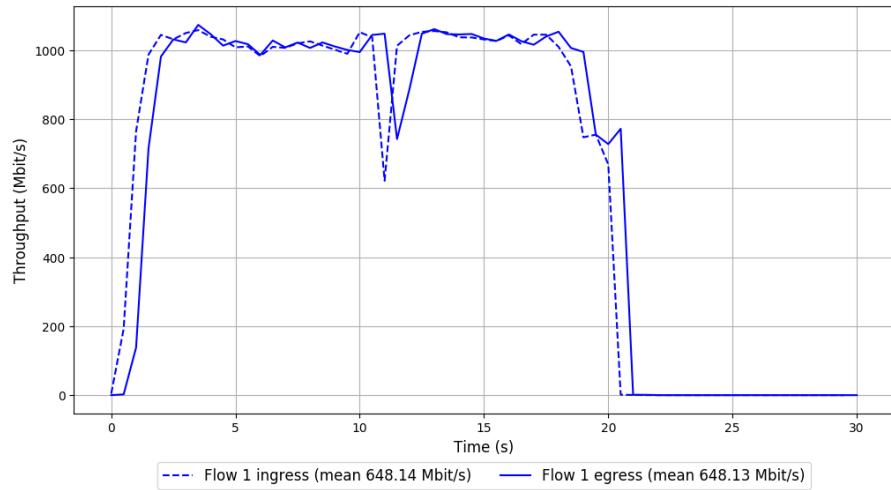


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-02-06 00:25:27
End at: 2019-02-06 00:25:57
Local clock offset: -0.126 ms
Remote clock offset: -0.216 ms

# Below is generated by plot.py at 2019-02-06 03:16:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 648.13 Mbit/s
95th percentile per-packet one-way delay: 73.267 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 648.13 Mbit/s
95th percentile per-packet one-way delay: 73.267 ms
Loss rate: 0.00%
```

Run 2: Report of FillP-Sheep — Data Link

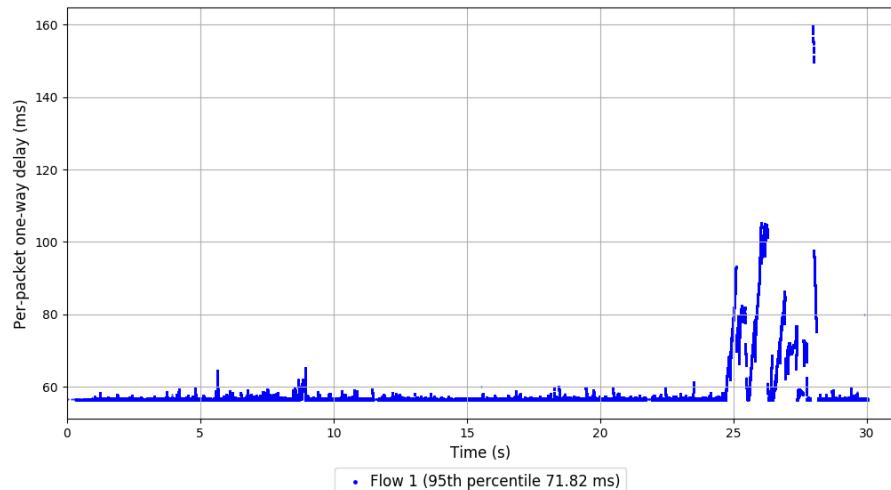
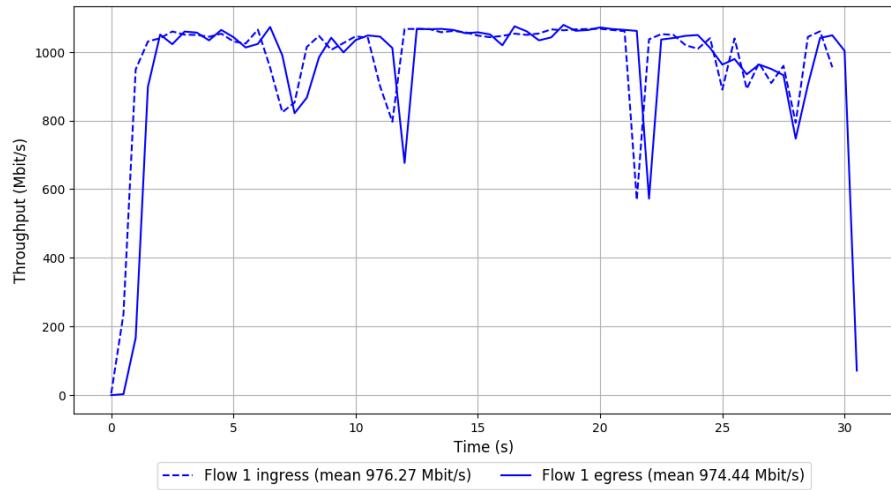


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-02-06 00:57:42
End at: 2019-02-06 00:58:12
Local clock offset: -0.315 ms
Remote clock offset: -1.344 ms

# Below is generated by plot.py at 2019-02-06 03:17:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 974.44 Mbit/s
95th percentile per-packet one-way delay: 71.822 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 974.44 Mbit/s
95th percentile per-packet one-way delay: 71.822 ms
Loss rate: 0.19%
```

Run 3: Report of FillP-Sheep — Data Link

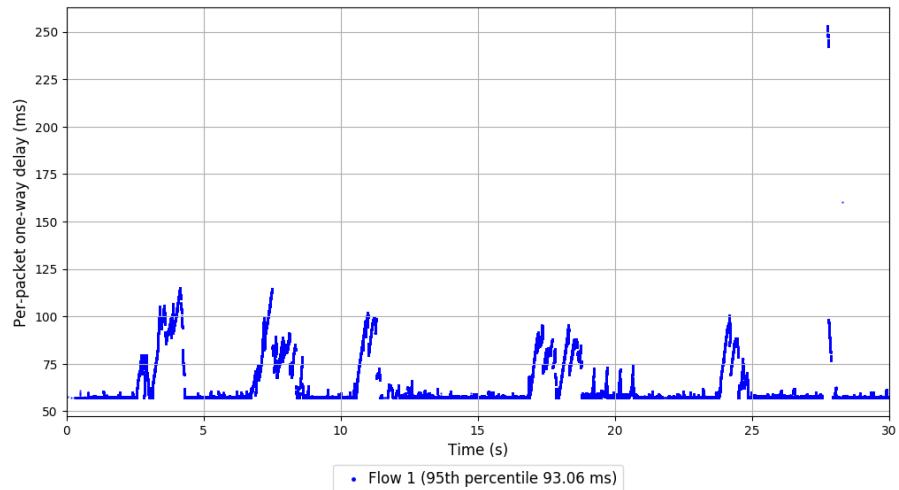
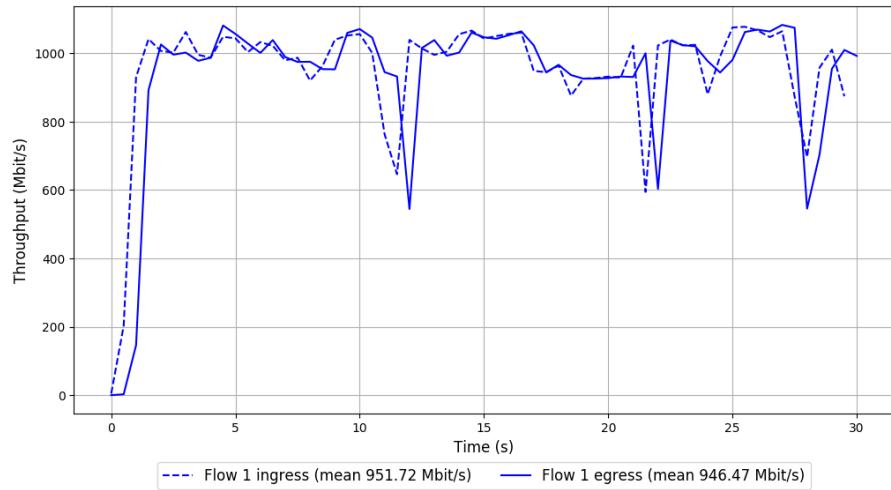


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-02-06 01:30:01
End at: 2019-02-06 01:30:31
Local clock offset: -0.055 ms
Remote clock offset: -0.119 ms

# Below is generated by plot.py at 2019-02-06 03:30:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 946.47 Mbit/s
95th percentile per-packet one-way delay: 93.062 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 946.47 Mbit/s
95th percentile per-packet one-way delay: 93.062 ms
Loss rate: 0.55%
```

Run 4: Report of FillP-Sheep — Data Link

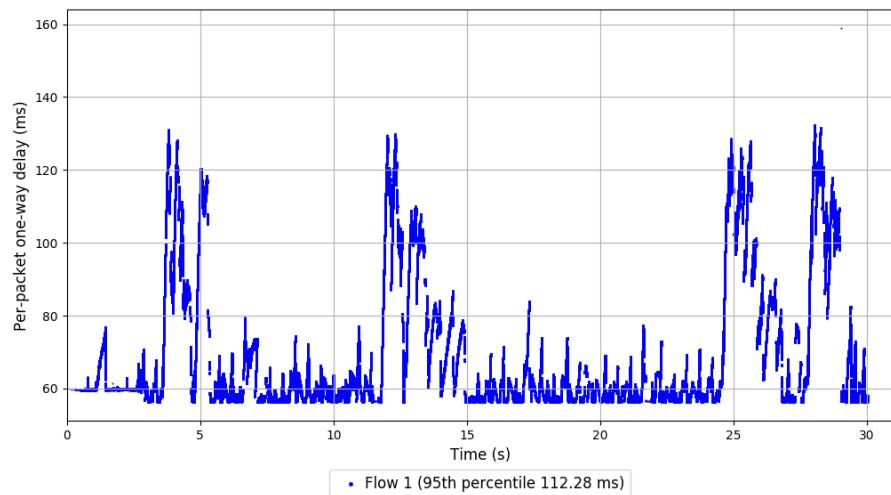
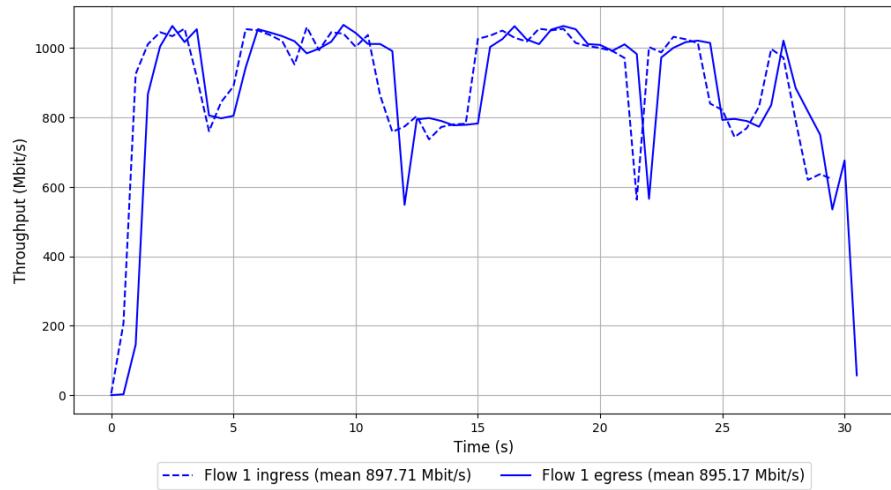


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-02-06 02:02:39
End at: 2019-02-06 02:03:09
Local clock offset: 0.069 ms
Remote clock offset: -0.706 ms

# Below is generated by plot.py at 2019-02-06 03:33:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 895.17 Mbit/s
95th percentile per-packet one-way delay: 112.279 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 895.17 Mbit/s
95th percentile per-packet one-way delay: 112.279 ms
Loss rate: 0.29%
```

Run 5: Report of FillP-Sheep — Data Link

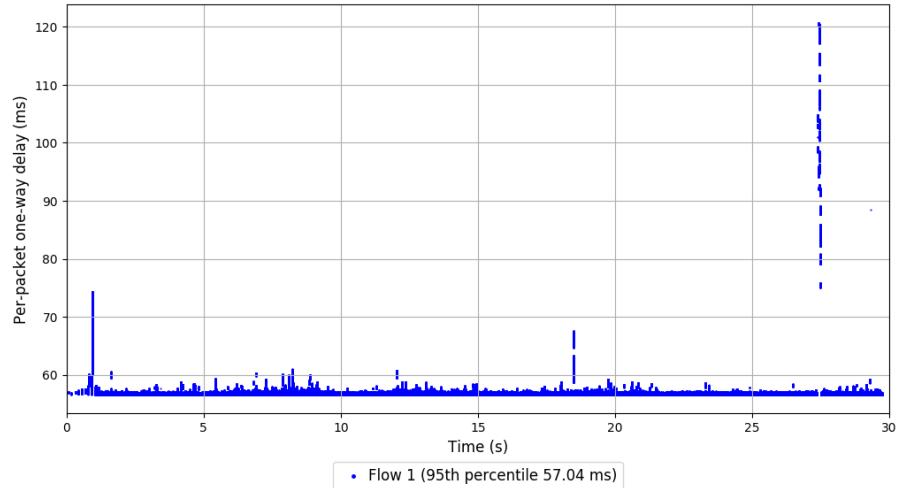
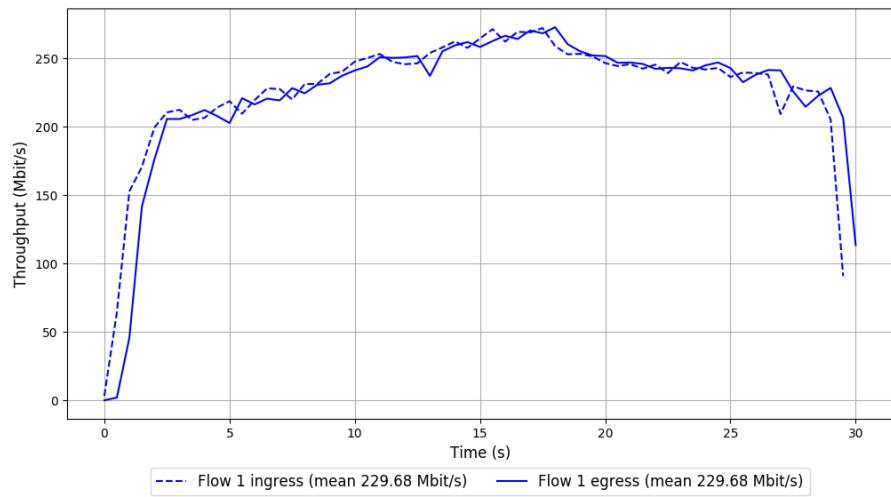


Run 1: Statistics of Indigo

```
Start at: 2019-02-05 23:42:51
End at: 2019-02-05 23:43:21
Local clock offset: -0.398 ms
Remote clock offset: -0.573 ms

# Below is generated by plot.py at 2019-02-06 03:33:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 229.68 Mbit/s
95th percentile per-packet one-way delay: 57.043 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 229.68 Mbit/s
95th percentile per-packet one-way delay: 57.043 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

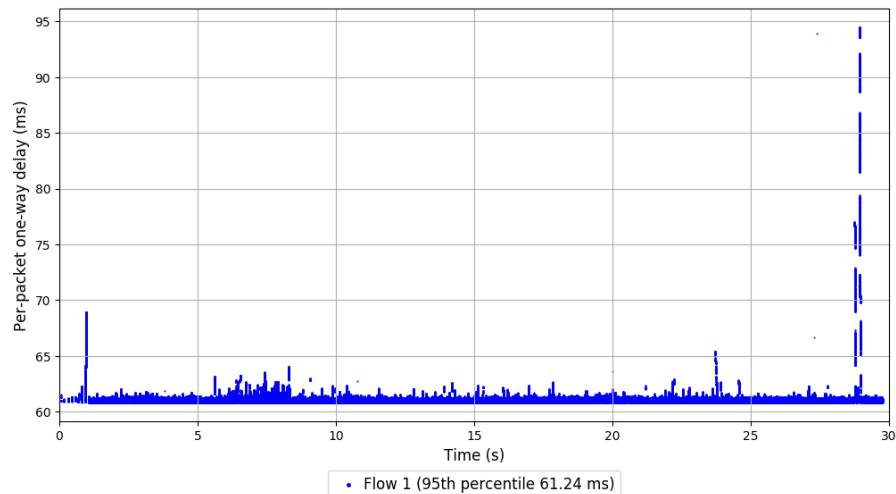
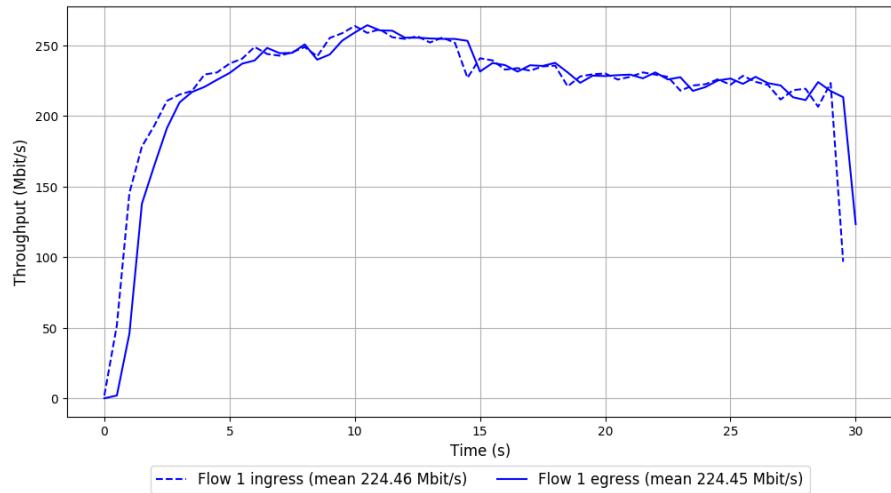


Run 2: Statistics of Indigo

```
Start at: 2019-02-06 00:14:15
End at: 2019-02-06 00:14:45
Local clock offset: -0.379 ms
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2019-02-06 03:33:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 224.45 Mbit/s
95th percentile per-packet one-way delay: 61.245 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 224.45 Mbit/s
95th percentile per-packet one-way delay: 61.245 ms
Loss rate: 0.02%
```

Run 2: Report of Indigo — Data Link

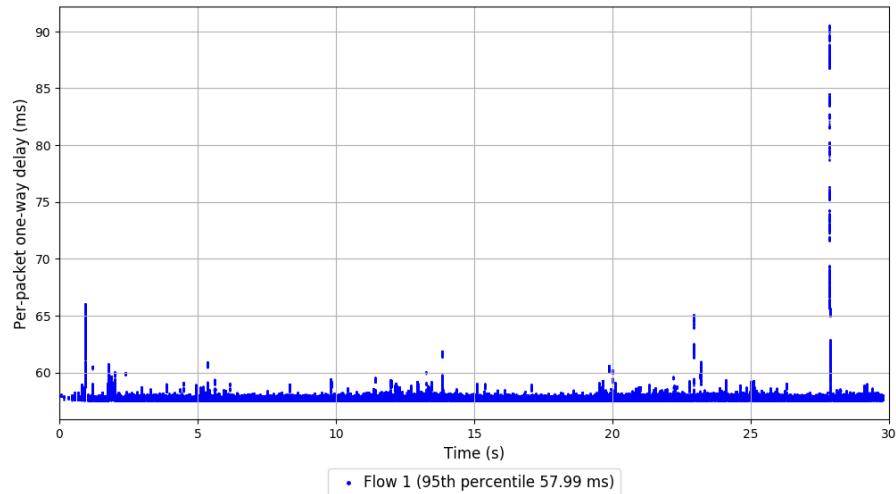
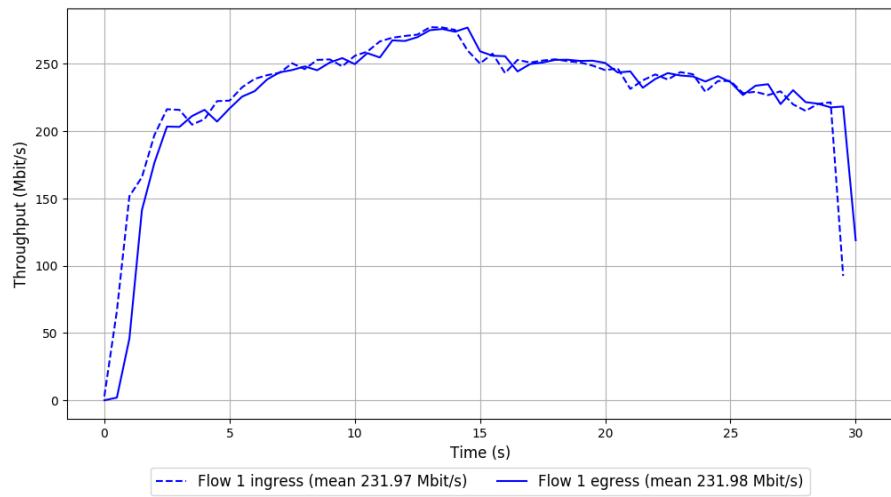


Run 3: Statistics of Indigo

```
Start at: 2019-02-06 00:46:16
End at: 2019-02-06 00:46:46
Local clock offset: -0.057 ms
Remote clock offset: 0.462 ms

# Below is generated by plot.py at 2019-02-06 03:33:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 231.98 Mbit/s
95th percentile per-packet one-way delay: 57.988 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 231.98 Mbit/s
95th percentile per-packet one-way delay: 57.988 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo — Data Link

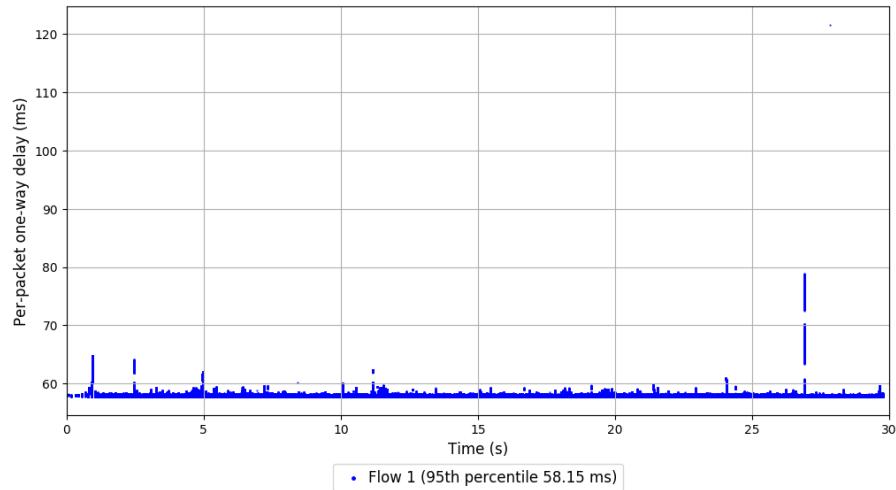
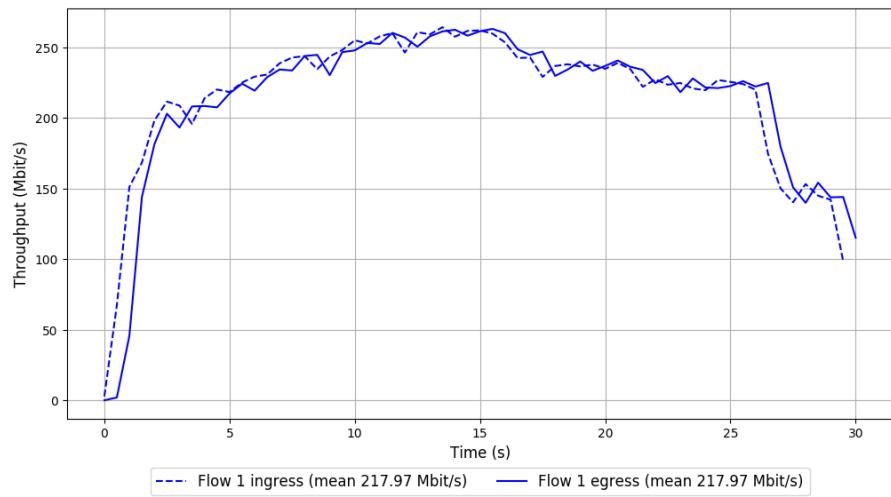


Run 4: Statistics of Indigo

```
Start at: 2019-02-06 01:19:09
End at: 2019-02-06 01:19:39
Local clock offset: -0.458 ms
Remote clock offset: 0.511 ms

# Below is generated by plot.py at 2019-02-06 03:33:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 217.97 Mbit/s
95th percentile per-packet one-way delay: 58.148 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 217.97 Mbit/s
95th percentile per-packet one-way delay: 58.148 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo — Data Link

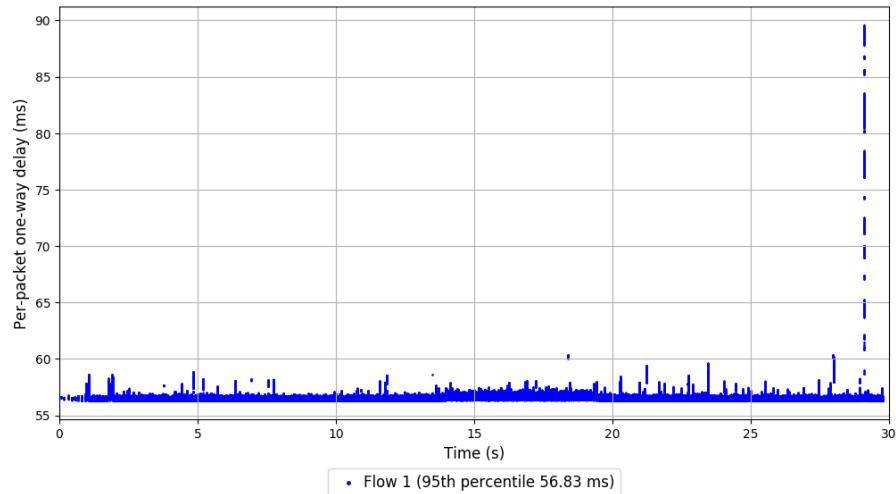
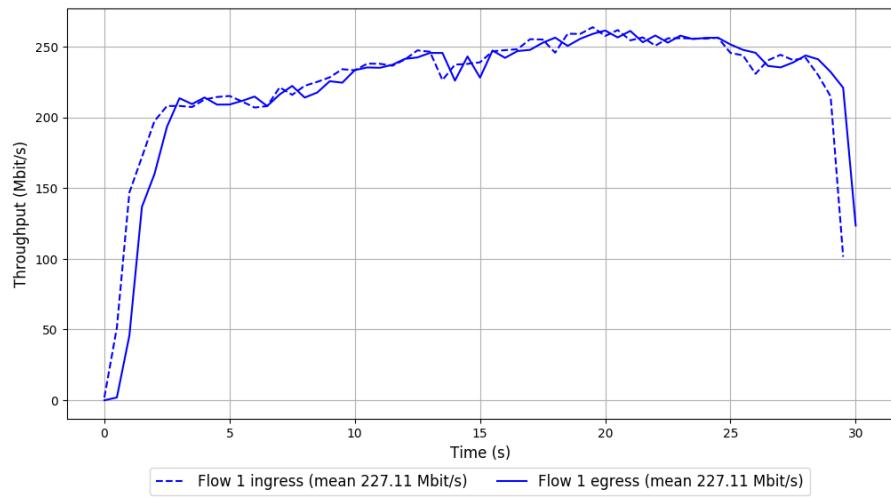


Run 5: Statistics of Indigo

```
Start at: 2019-02-06 01:51:59
End at: 2019-02-06 01:52:29
Local clock offset: 0.185 ms
Remote clock offset: -0.428 ms

# Below is generated by plot.py at 2019-02-06 03:33:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 227.11 Mbit/s
95th percentile per-packet one-way delay: 56.827 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 227.11 Mbit/s
95th percentile per-packet one-way delay: 56.827 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

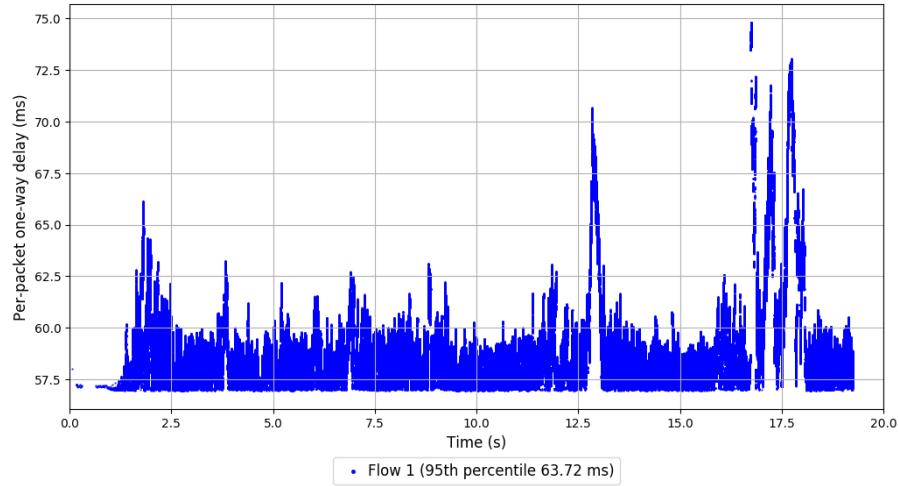
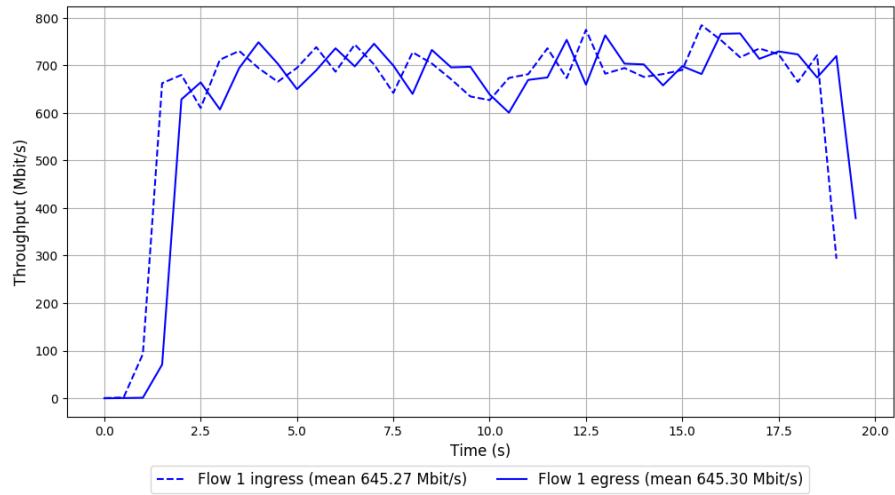
Start at: 2019-02-05 23:37:25

End at: 2019-02-05 23:37:55

Local clock offset: -0.079 ms

Remote clock offset: -0.003 ms

Run 1: Report of Indigo-MusesC3 — Data Link

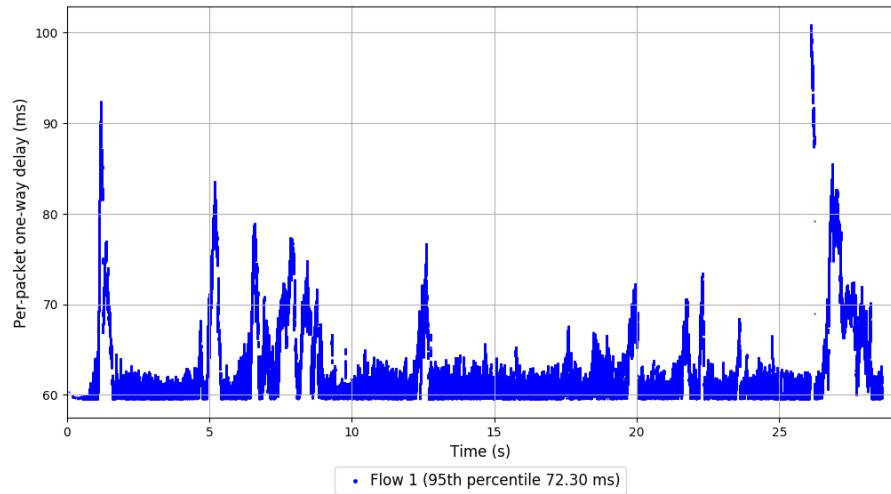
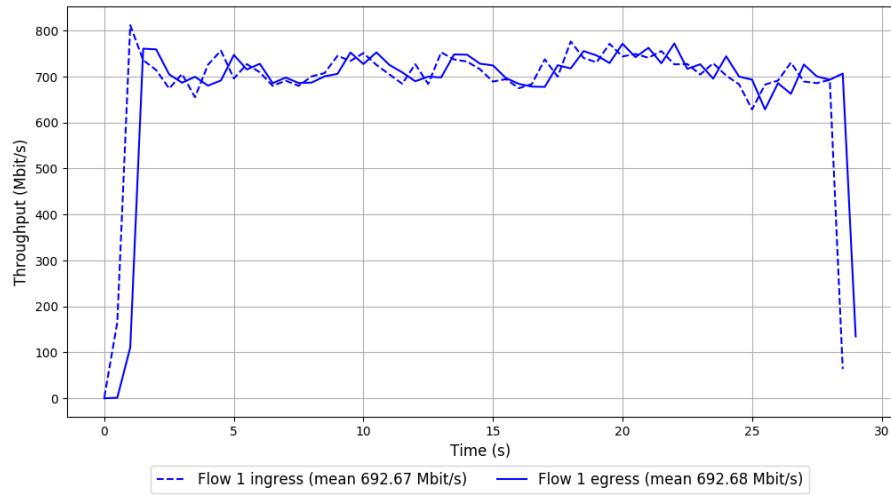


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-02-06 00:08:36
End at: 2019-02-06 00:09:06
Local clock offset: 0.149 ms
Remote clock offset: -0.69 ms

# Below is generated by plot.py at 2019-02-06 03:36:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 692.68 Mbit/s
95th percentile per-packet one-way delay: 72.303 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 692.68 Mbit/s
95th percentile per-packet one-way delay: 72.303 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo-MusesC3 — Data Link

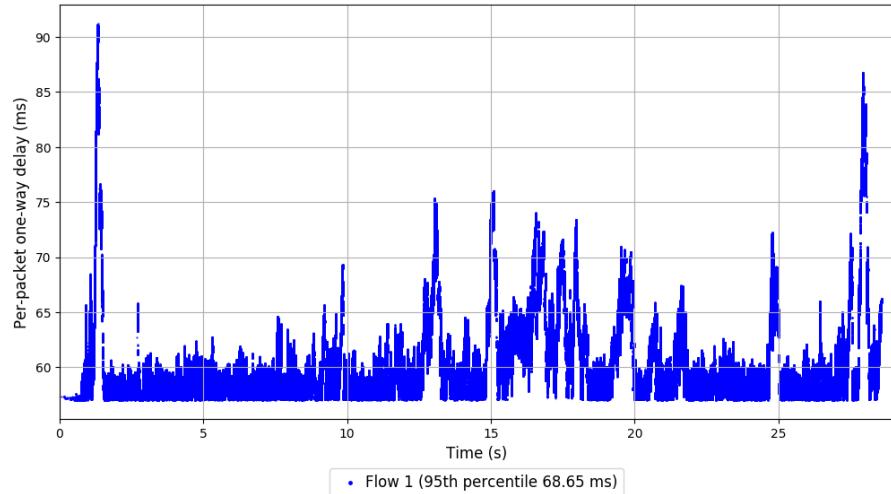
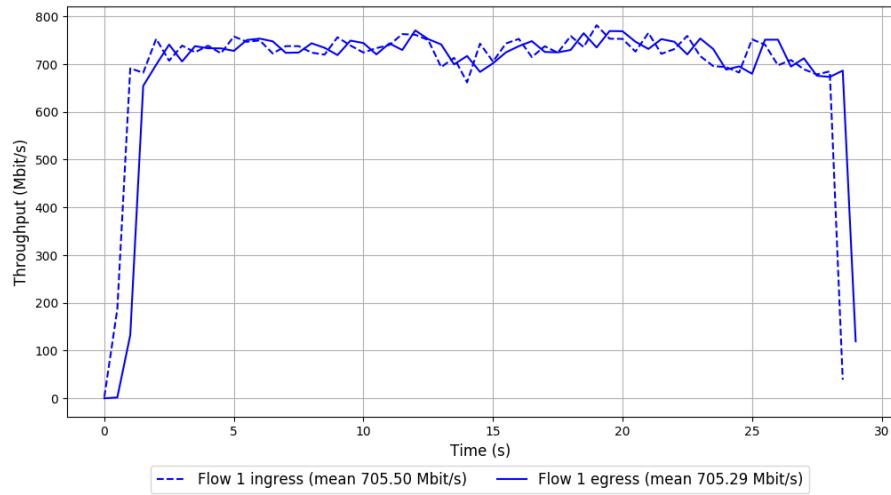


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-02-06 00:40:35
End at: 2019-02-06 00:41:05
Local clock offset: -0.05 ms
Remote clock offset: -0.148 ms

# Below is generated by plot.py at 2019-02-06 03:37:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 705.29 Mbit/s
95th percentile per-packet one-way delay: 68.646 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 705.29 Mbit/s
95th percentile per-packet one-way delay: 68.646 ms
Loss rate: 0.03%
```

Run 3: Report of Indigo-MusesC3 — Data Link

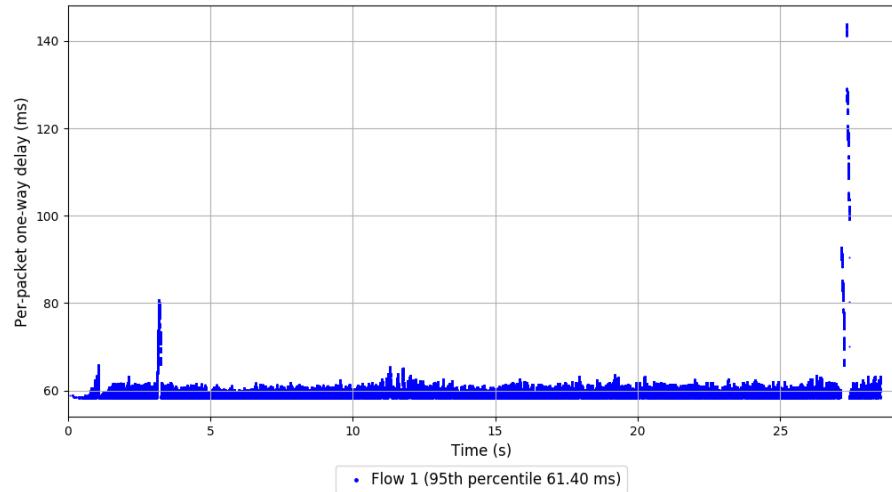
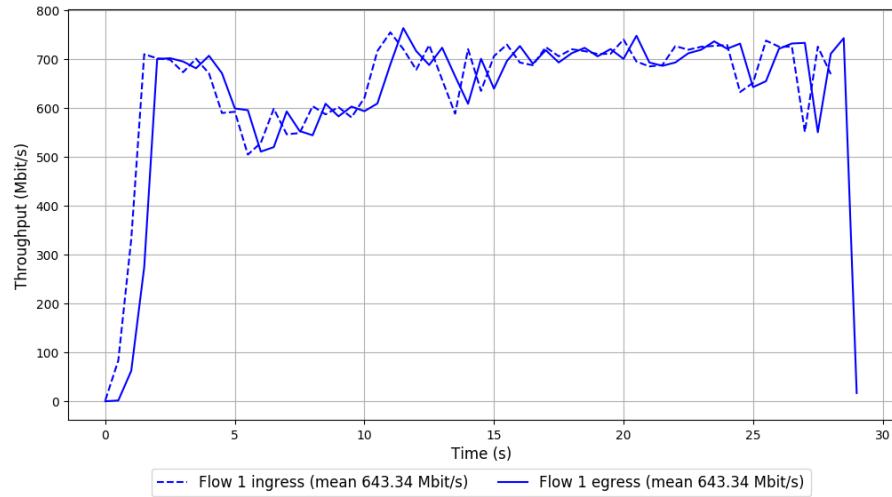


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-02-06 01:13:14
End at: 2019-02-06 01:13:44
Local clock offset: -0.041 ms
Remote clock offset: 1.139 ms

# Below is generated by plot.py at 2019-02-06 03:37:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 643.34 Mbit/s
95th percentile per-packet one-way delay: 61.398 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 643.34 Mbit/s
95th percentile per-packet one-way delay: 61.398 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-MusesC3 — Data Link

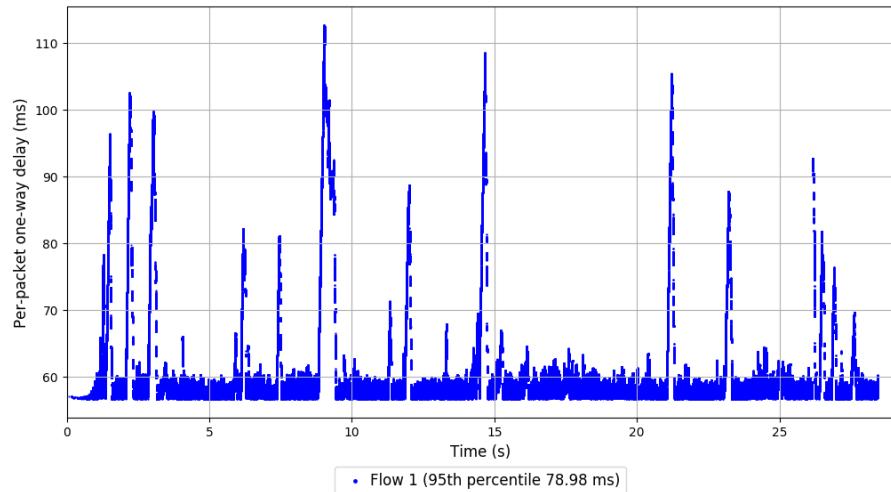
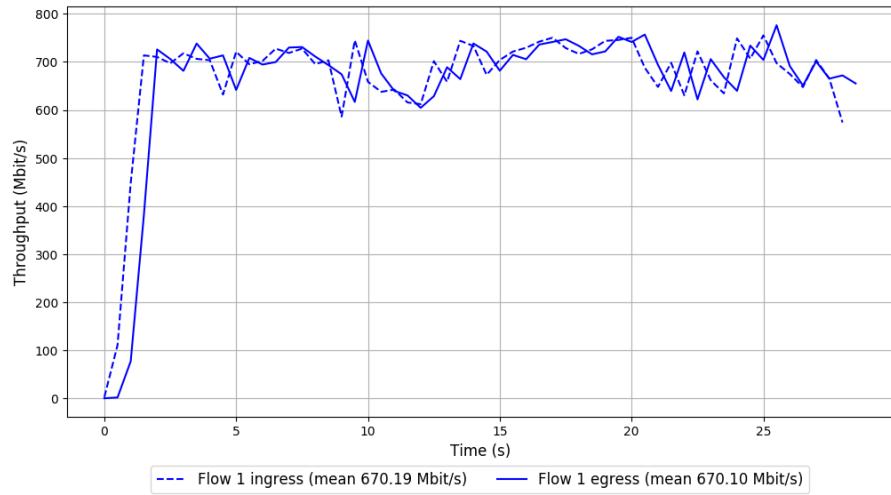


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-02-06 01:46:13
End at: 2019-02-06 01:46:43
Local clock offset: -0.086 ms
Remote clock offset: -0.301 ms

# Below is generated by plot.py at 2019-02-06 03:38:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 670.10 Mbit/s
95th percentile per-packet one-way delay: 78.982 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 670.10 Mbit/s
95th percentile per-packet one-way delay: 78.982 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesC3 — Data Link

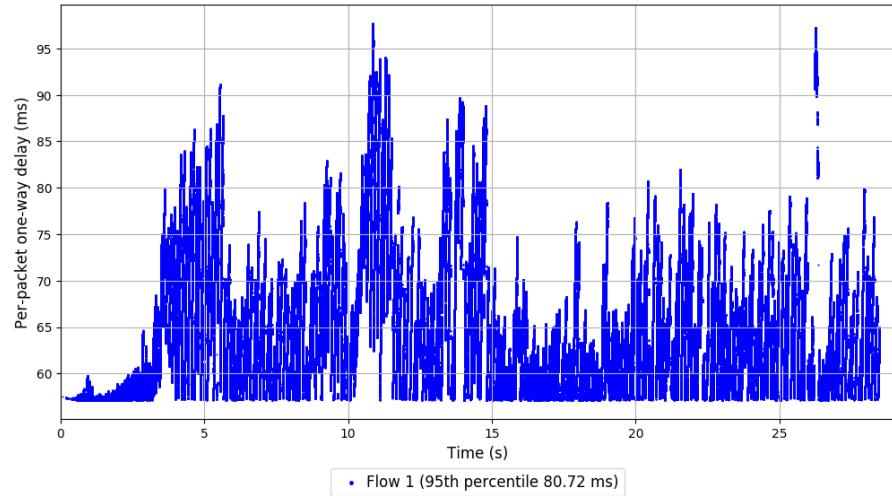
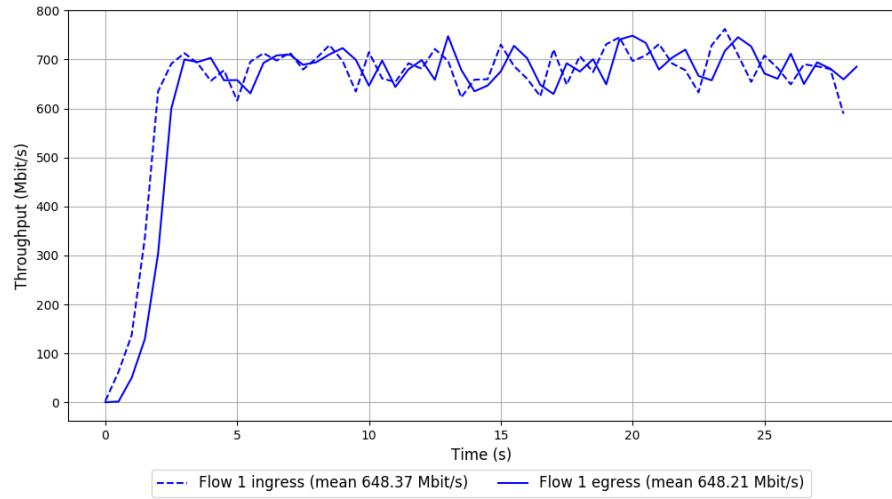


```
Run 1: Statistics of Indigo-MusesC5
```

```
Start at: 2019-02-05 23:50:01
End at: 2019-02-05 23:50:31
Local clock offset: -0.489 ms
Remote clock offset: -0.312 ms

# Below is generated by plot.py at 2019-02-06 03:42:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 648.21 Mbit/s
95th percentile per-packet one-way delay: 80.718 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 648.21 Mbit/s
95th percentile per-packet one-way delay: 80.718 ms
Loss rate: 0.02%
```

Run 1: Report of Indigo-MusesC5 — Data Link

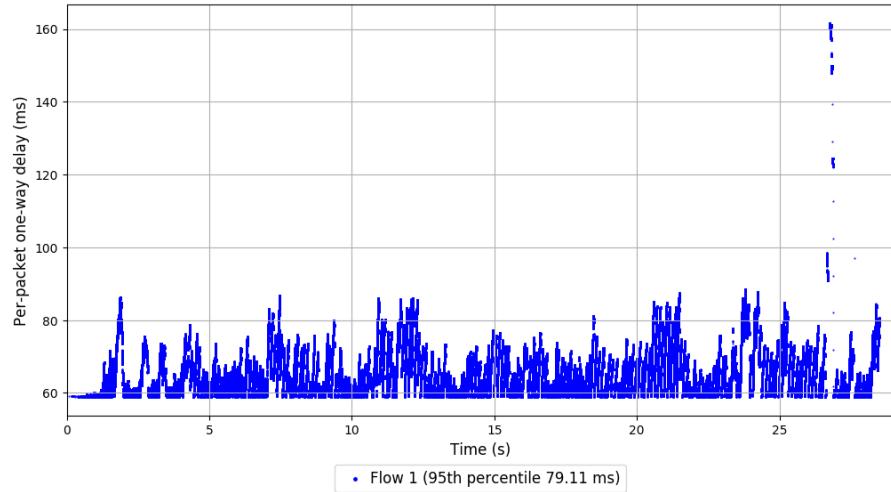
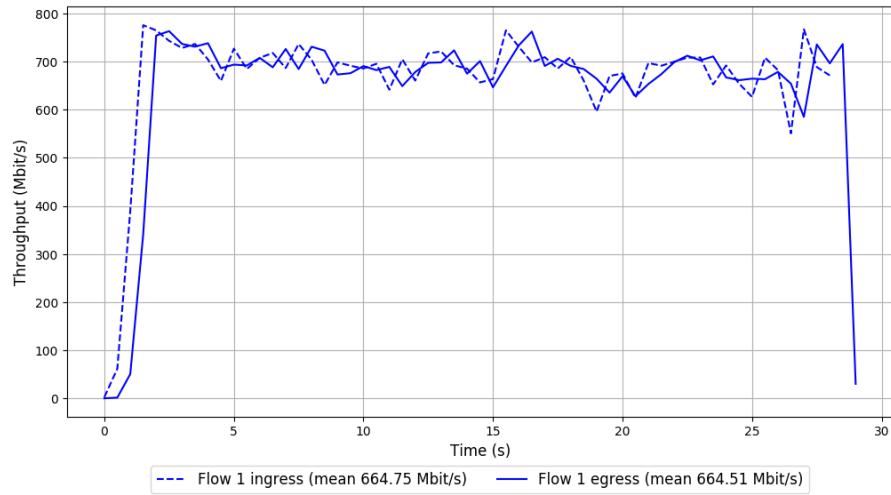


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-02-06 00:21:44
End at: 2019-02-06 00:22:14
Local clock offset: -0.069 ms
Remote clock offset: -1.584 ms

# Below is generated by plot.py at 2019-02-06 03:42:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 664.51 Mbit/s
95th percentile per-packet one-way delay: 79.110 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 664.51 Mbit/s
95th percentile per-packet one-way delay: 79.110 ms
Loss rate: 0.03%
```

Run 2: Report of Indigo-MusesC5 — Data Link

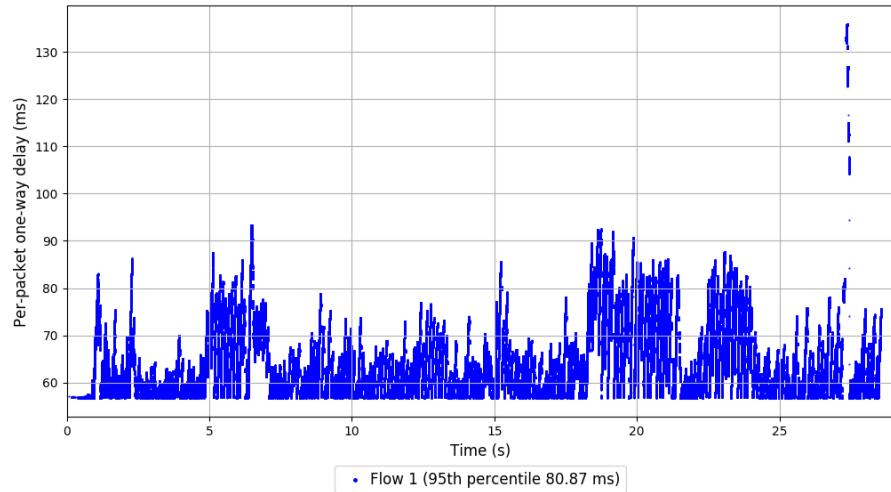
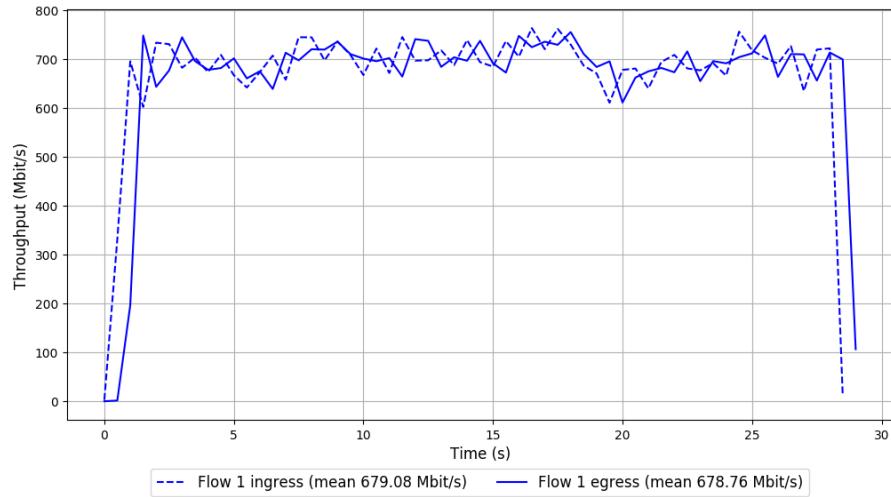


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-02-06 00:54:02
End at: 2019-02-06 00:54:32
Local clock offset: -0.062 ms
Remote clock offset: -0.297 ms

# Below is generated by plot.py at 2019-02-06 03:45:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 678.76 Mbit/s
95th percentile per-packet one-way delay: 80.867 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 678.76 Mbit/s
95th percentile per-packet one-way delay: 80.867 ms
Loss rate: 0.04%
```

Run 3: Report of Indigo-MusesC5 — Data Link

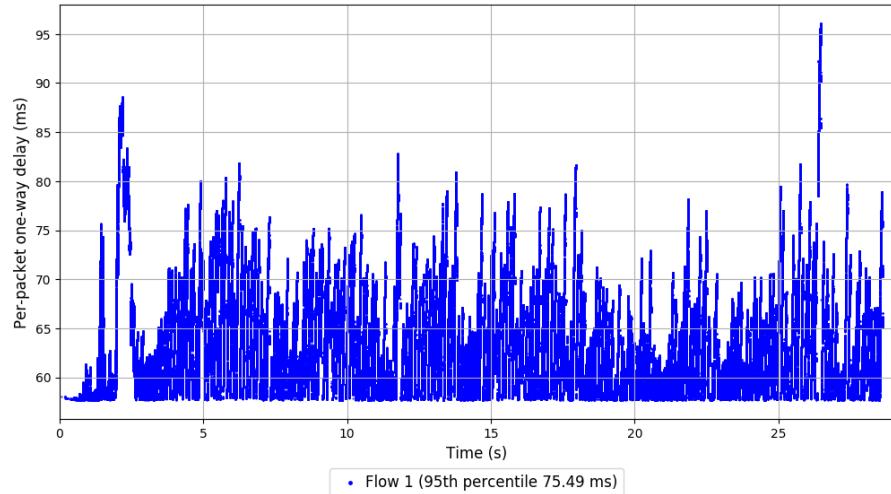
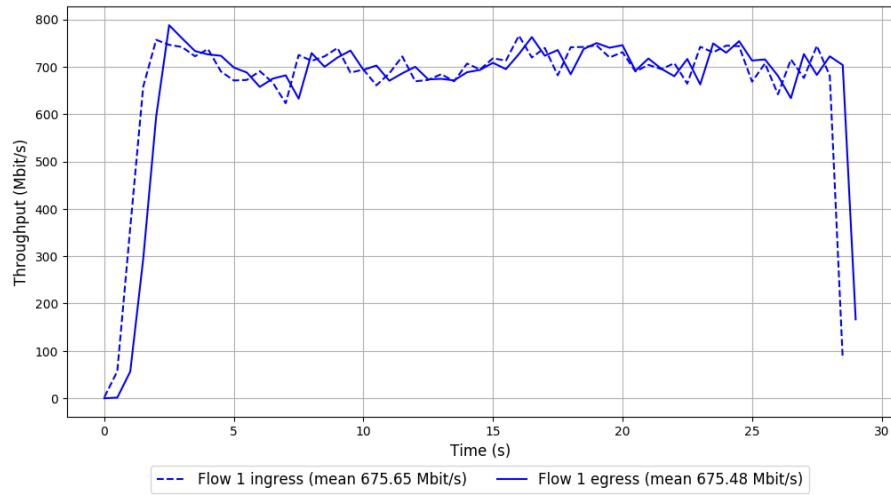


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-02-06 01:26:38
End at: 2019-02-06 01:27:08
Local clock offset: -0.042 ms
Remote clock offset: 0.767 ms

# Below is generated by plot.py at 2019-02-06 03:49:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 675.48 Mbit/s
95th percentile per-packet one-way delay: 75.489 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 675.48 Mbit/s
95th percentile per-packet one-way delay: 75.489 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-MusesC5 — Data Link

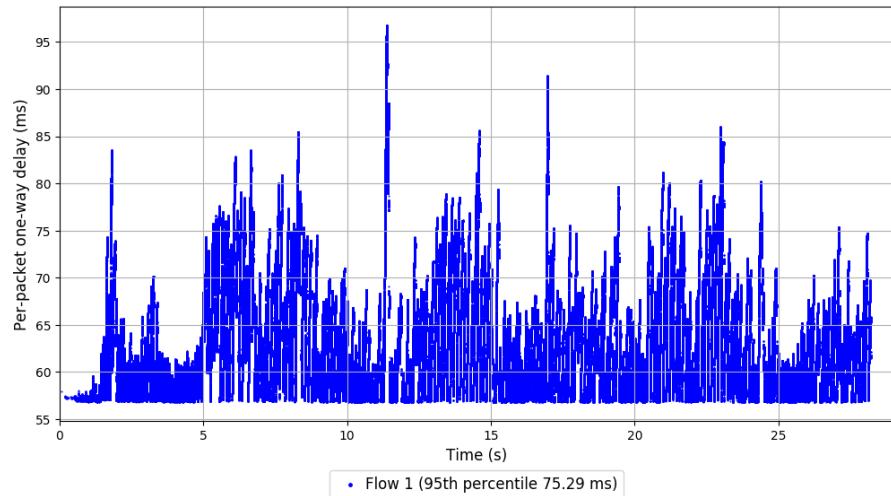
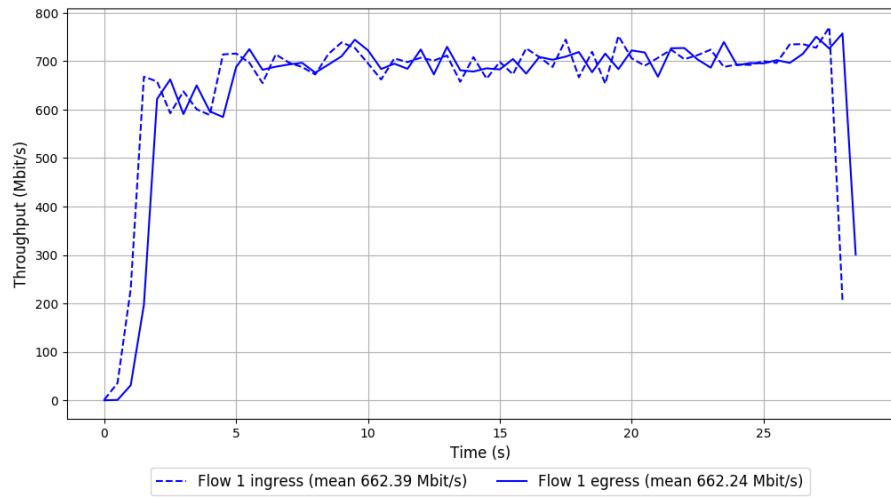


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-02-06 01:59:18
End at: 2019-02-06 01:59:48
Local clock offset: -0.101 ms
Remote clock offset: -0.35 ms

# Below is generated by plot.py at 2019-02-06 03:51:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 662.24 Mbit/s
95th percentile per-packet one-way delay: 75.290 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 662.24 Mbit/s
95th percentile per-packet one-way delay: 75.290 ms
Loss rate: 0.02%
```

Run 5: Report of Indigo-MusesC5 — Data Link

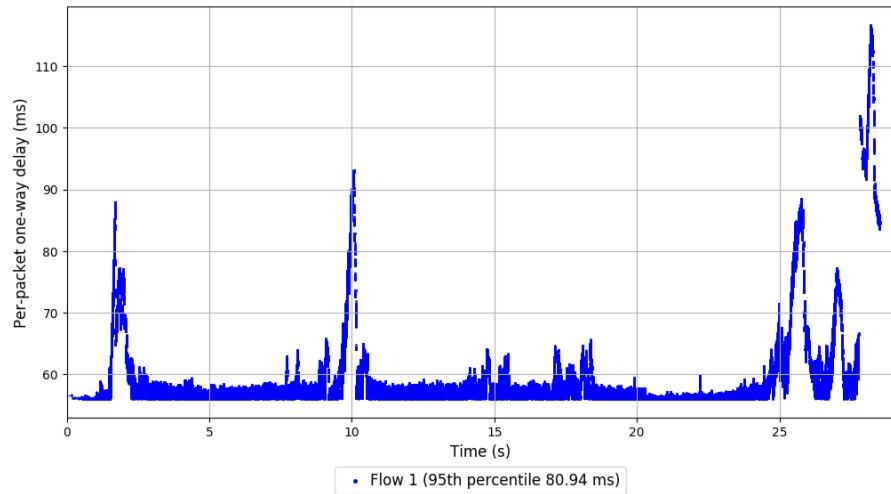
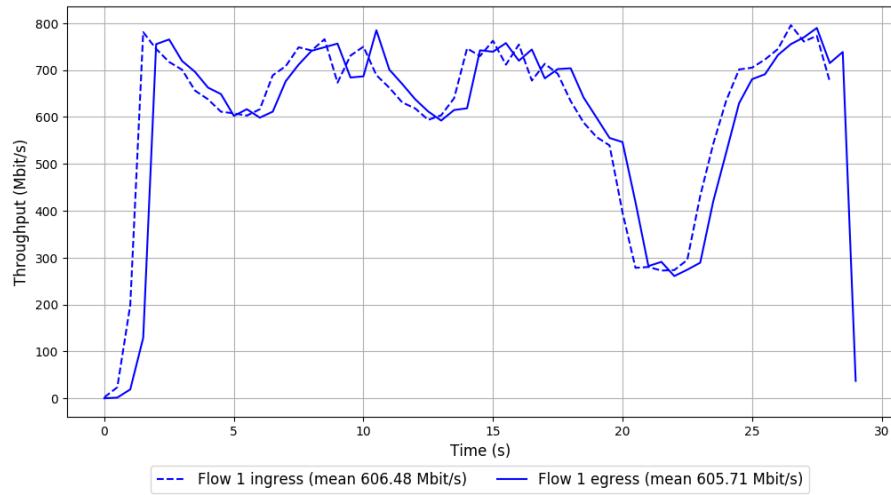


```
Run 1: Statistics of Indigo-MusesD
```

```
Start at: 2019-02-05 23:46:50
End at: 2019-02-05 23:47:20
Local clock offset: 0.253 ms
Remote clock offset: -0.541 ms

# Below is generated by plot.py at 2019-02-06 03:51:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 605.71 Mbit/s
95th percentile per-packet one-way delay: 80.945 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 605.71 Mbit/s
95th percentile per-packet one-way delay: 80.945 ms
Loss rate: 0.13%
```

Run 1: Report of Indigo-MusesD — Data Link

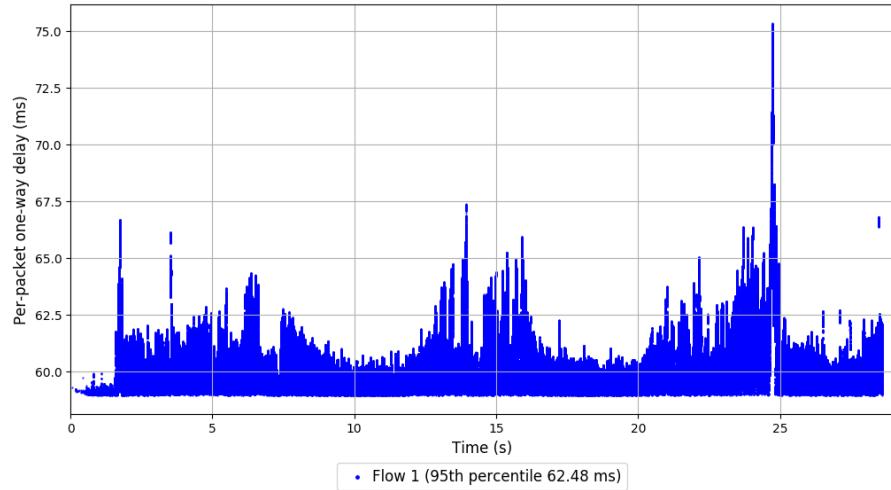
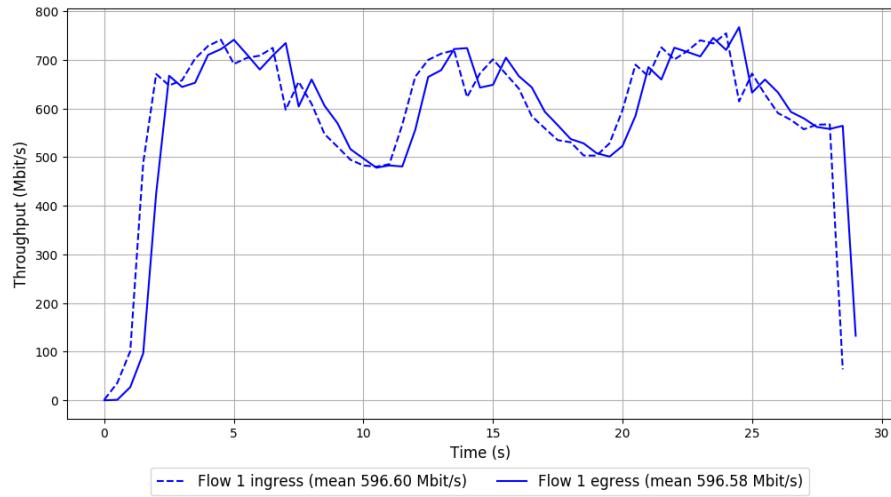


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-02-06 00:18:22
End at: 2019-02-06 00:18:52
Local clock offset: -0.136 ms
Remote clock offset: -1.462 ms

# Below is generated by plot.py at 2019-02-06 03:52:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 596.58 Mbit/s
95th percentile per-packet one-way delay: 62.481 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 596.58 Mbit/s
95th percentile per-packet one-way delay: 62.481 ms
Loss rate: 0.02%
```

Run 2: Report of Indigo-MusesD — Data Link

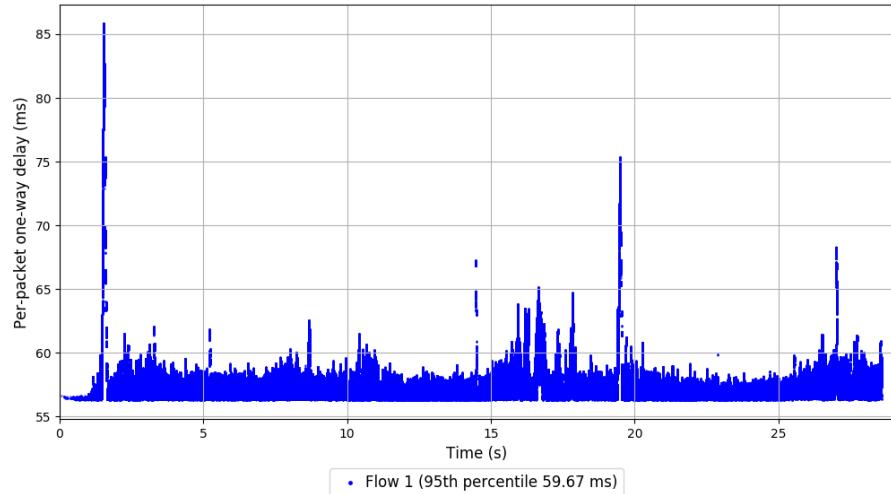
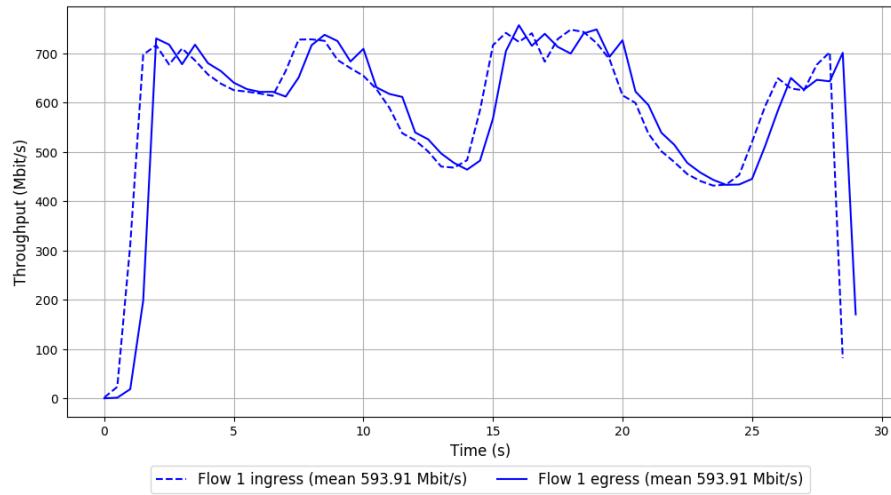


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-02-06 00:50:37
End at: 2019-02-06 00:51:07
Local clock offset: -0.302 ms
Remote clock offset: -1.375 ms

# Below is generated by plot.py at 2019-02-06 03:52:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 593.91 Mbit/s
95th percentile per-packet one-way delay: 59.669 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 593.91 Mbit/s
95th percentile per-packet one-way delay: 59.669 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-MusesD — Data Link

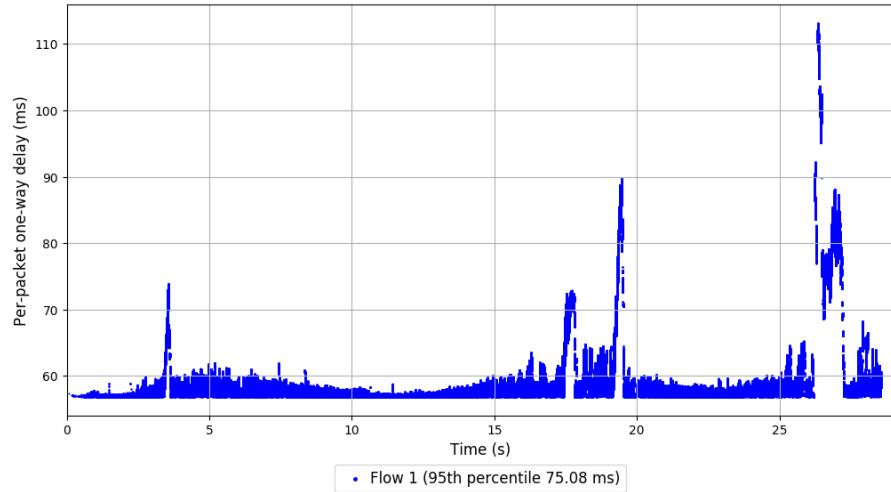
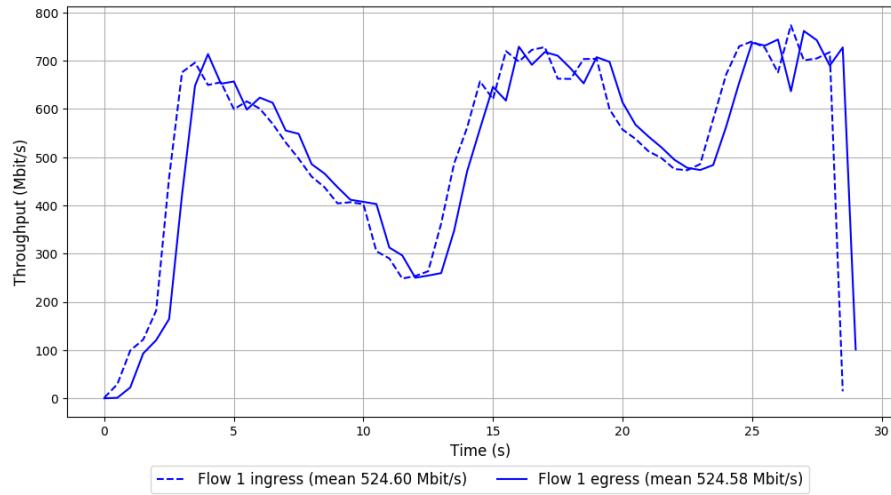


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-02-06 01:23:27
End at: 2019-02-06 01:23:57
Local clock offset: 0.432 ms
Remote clock offset: 0.273 ms

# Below is generated by plot.py at 2019-02-06 03:54:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 524.58 Mbit/s
95th percentile per-packet one-way delay: 75.079 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 524.58 Mbit/s
95th percentile per-packet one-way delay: 75.079 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-MusesD — Data Link

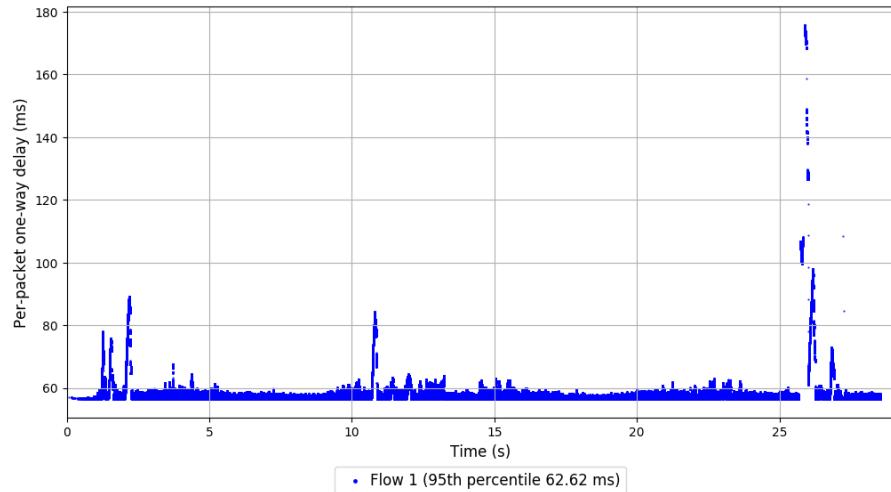
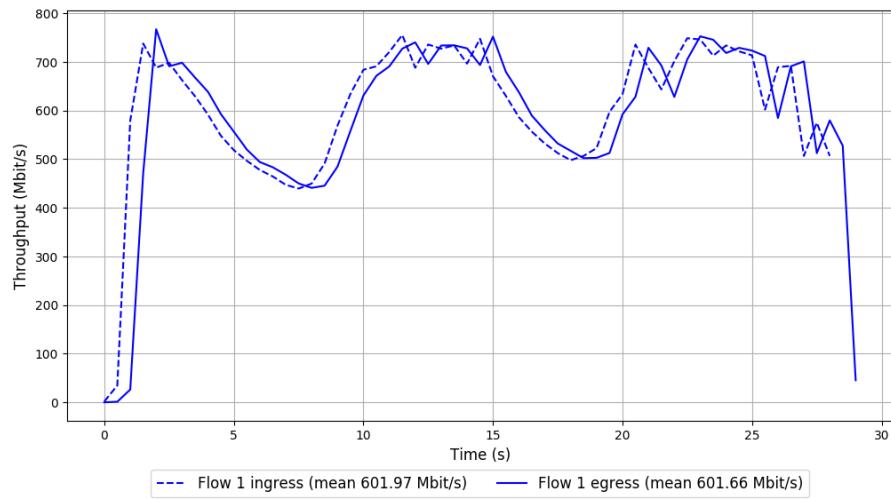


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-02-06 01:56:03
End at: 2019-02-06 01:56:33
Local clock offset: 0.34 ms
Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2019-02-06 03:56:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 601.66 Mbit/s
95th percentile per-packet one-way delay: 62.620 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 601.66 Mbit/s
95th percentile per-packet one-way delay: 62.620 ms
Loss rate: 0.05%
```

Run 5: Report of Indigo-MusesD — Data Link

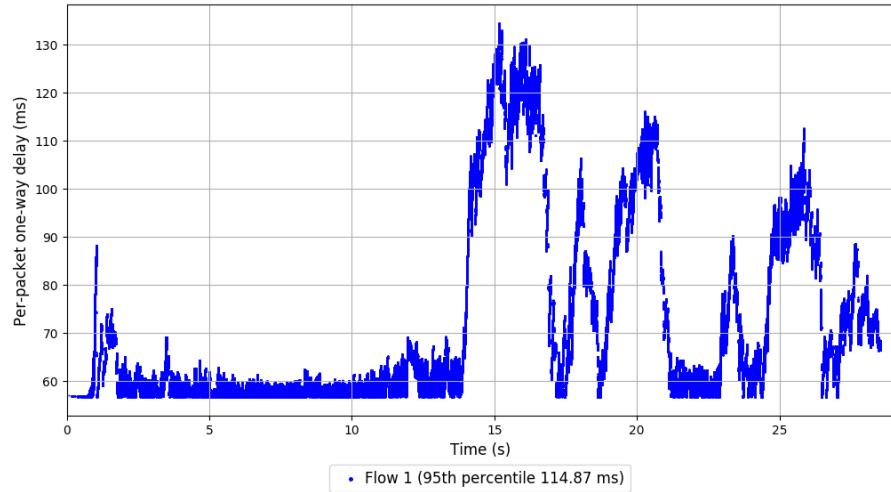
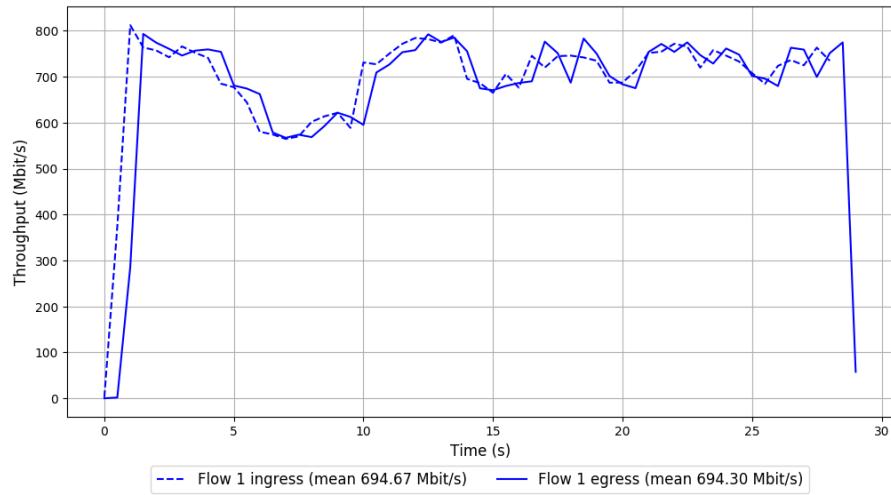


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-02-05 23:51:39
End at: 2019-02-05 23:52:09
Local clock offset: -0.313 ms
Remote clock offset: -0.467 ms

# Below is generated by plot.py at 2019-02-06 04:01:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 694.30 Mbit/s
95th percentile per-packet one-way delay: 114.873 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 694.30 Mbit/s
95th percentile per-packet one-way delay: 114.873 ms
Loss rate: 0.05%
```

Run 1: Report of Indigo-MusesT — Data Link

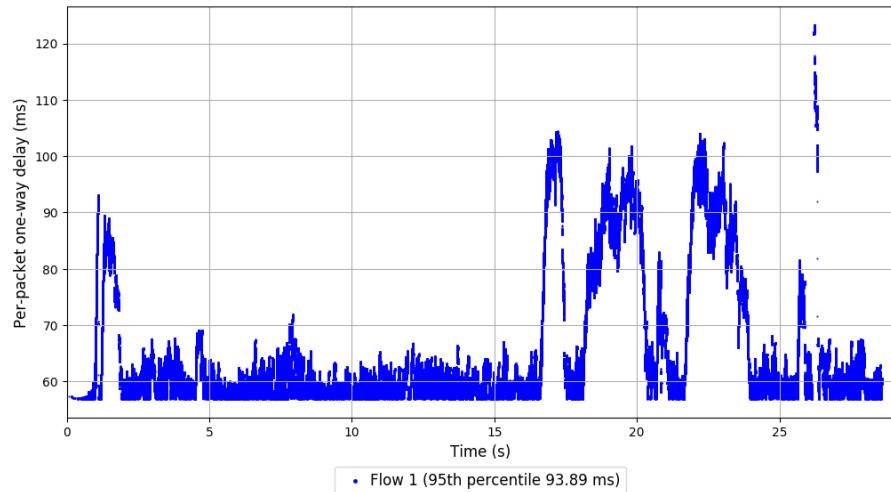
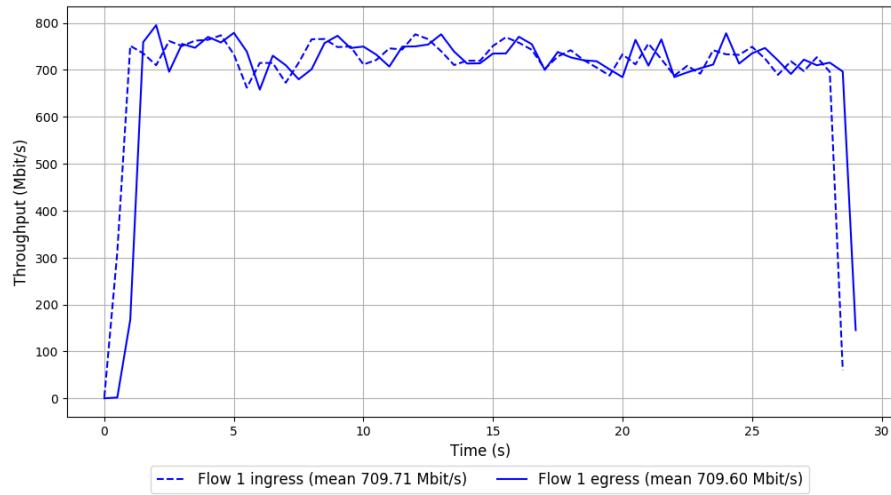


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-02-06 00:23:34
End at: 2019-02-06 00:24:04
Local clock offset: 0.109 ms
Remote clock offset: -0.291 ms

# Below is generated by plot.py at 2019-02-06 04:05:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 709.60 Mbit/s
95th percentile per-packet one-way delay: 93.885 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 709.60 Mbit/s
95th percentile per-packet one-way delay: 93.885 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo-MusesT — Data Link

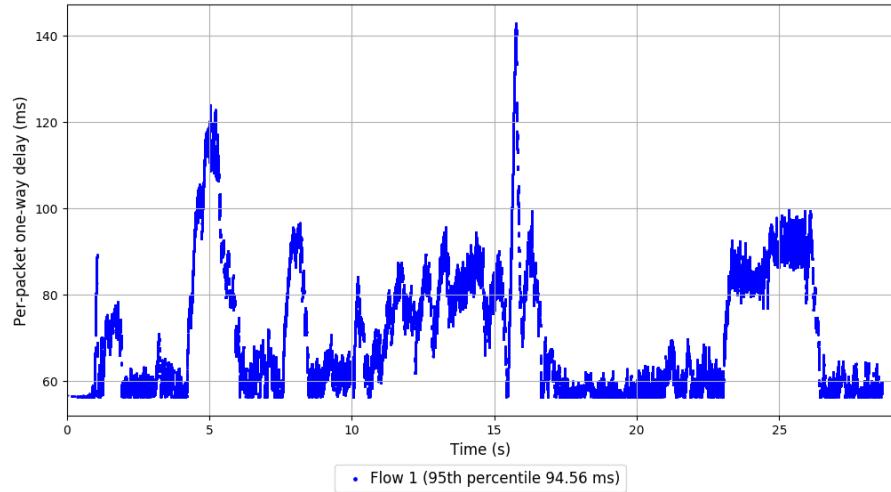
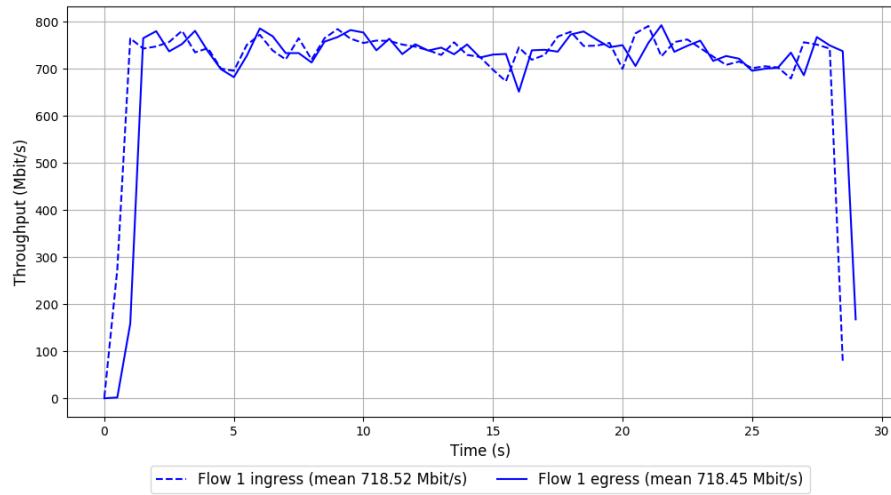


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-02-06 00:55:55
End at: 2019-02-06 00:56:25
Local clock offset: 0.142 ms
Remote clock offset: -0.244 ms

# Below is generated by plot.py at 2019-02-06 04:06:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 718.45 Mbit/s
95th percentile per-packet one-way delay: 94.564 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 718.45 Mbit/s
95th percentile per-packet one-way delay: 94.564 ms
Loss rate: 0.01%
```

Run 3: Report of Indigo-MusesT — Data Link

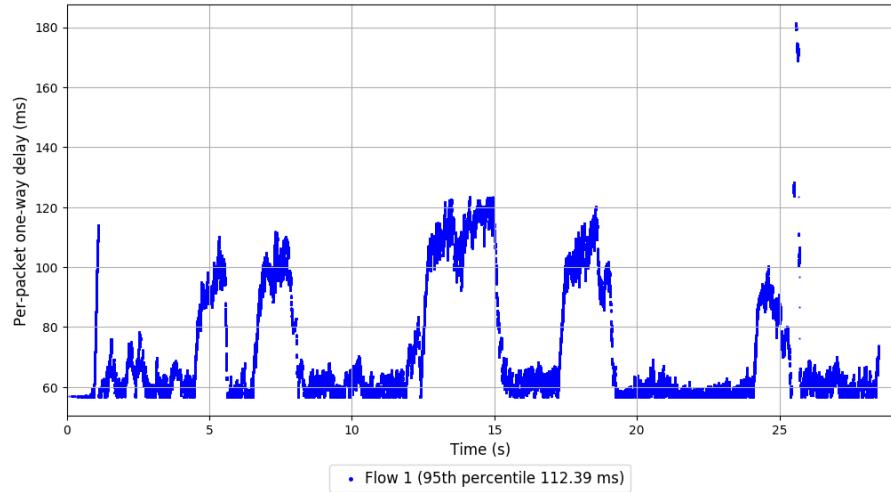
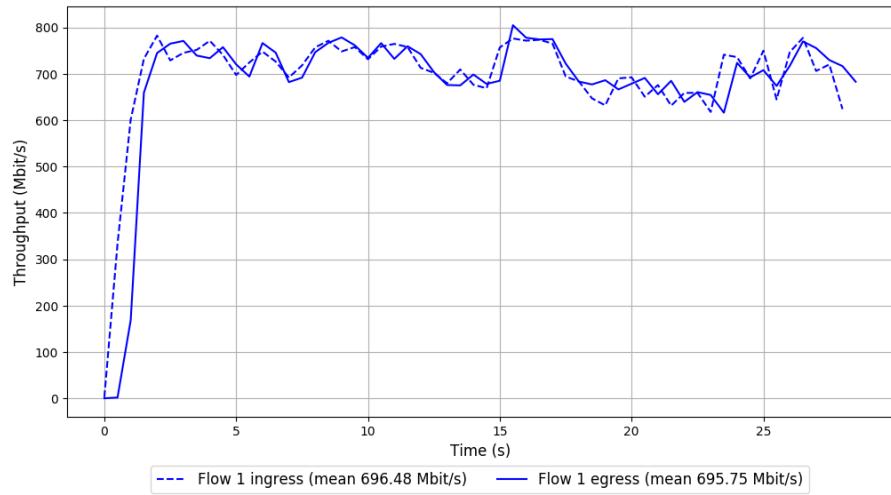


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-02-06 01:28:19
End at: 2019-02-06 01:28:49
Local clock offset: -0.042 ms
Remote clock offset: -0.547 ms

# Below is generated by plot.py at 2019-02-06 04:06:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 695.75 Mbit/s
95th percentile per-packet one-way delay: 112.393 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 695.75 Mbit/s
95th percentile per-packet one-way delay: 112.393 ms
Loss rate: 0.11%
```

Run 4: Report of Indigo-MusesT — Data Link

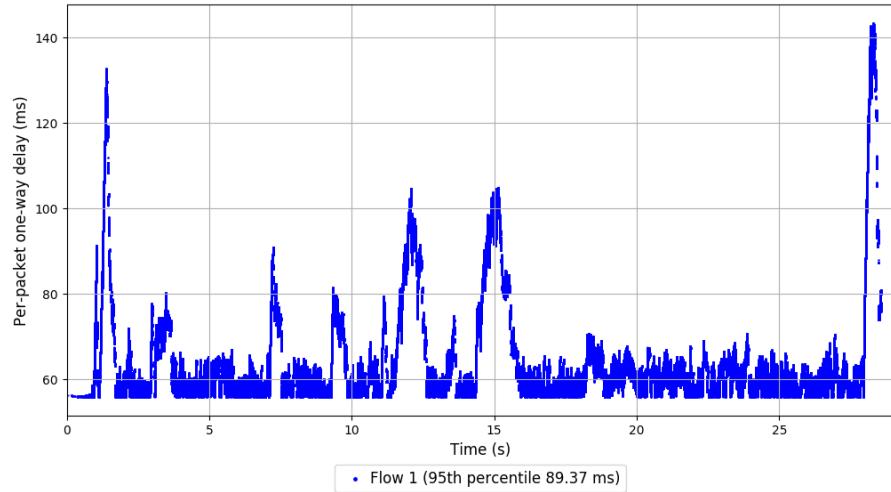
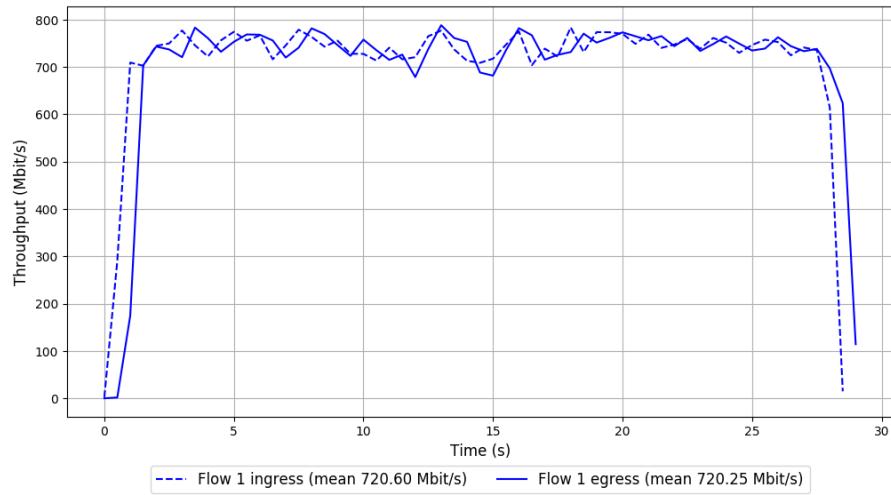


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-02-06 02:00:58
End at: 2019-02-06 02:01:28
Local clock offset: -0.323 ms
Remote clock offset: -1.372 ms

# Below is generated by plot.py at 2019-02-06 04:07:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 720.25 Mbit/s
95th percentile per-packet one-way delay: 89.369 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 720.25 Mbit/s
95th percentile per-packet one-way delay: 89.369 ms
Loss rate: 0.05%
```

Run 5: Report of Indigo-MusesT — Data Link

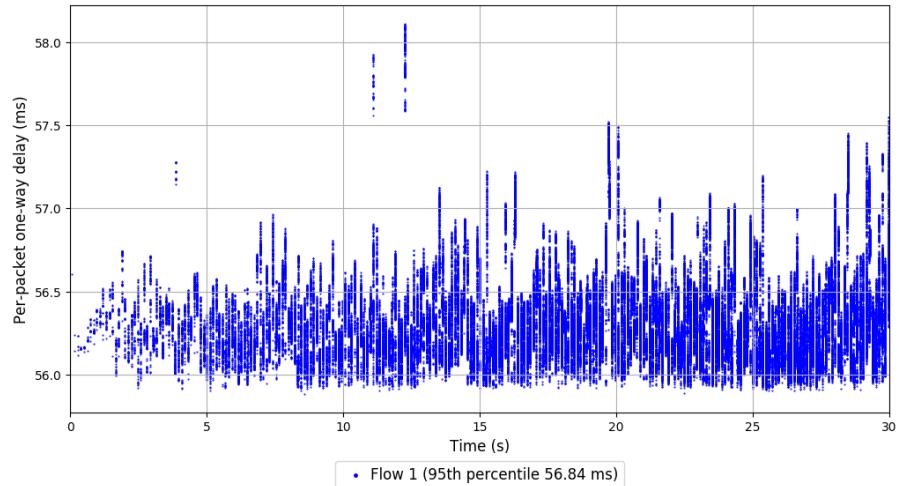
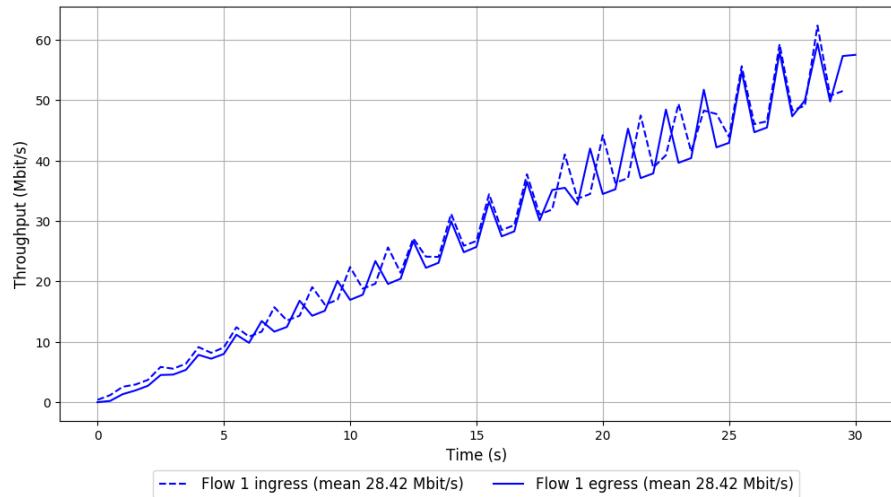


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-02-05 23:41:40
End at: 2019-02-05 23:42:10
Local clock offset: -0.519 ms
Remote clock offset: -1.414 ms

# Below is generated by plot.py at 2019-02-06 04:07:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.42 Mbit/s
95th percentile per-packet one-way delay: 56.838 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 28.42 Mbit/s
95th percentile per-packet one-way delay: 56.838 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

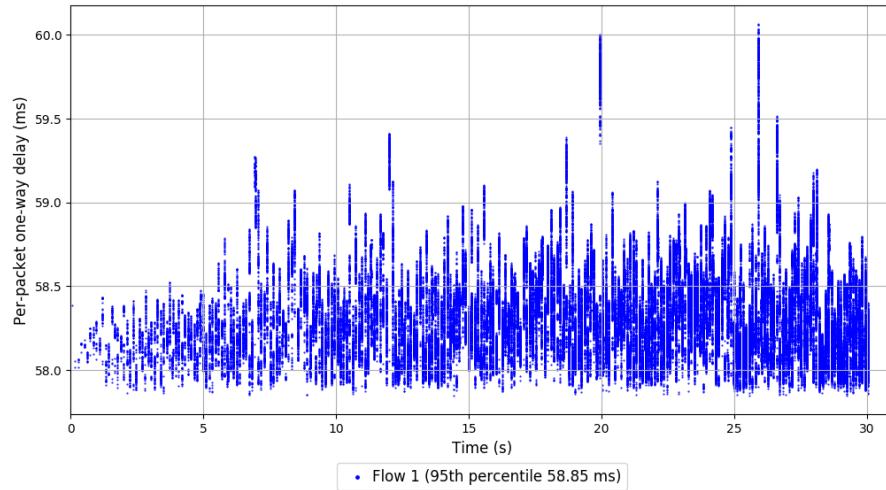
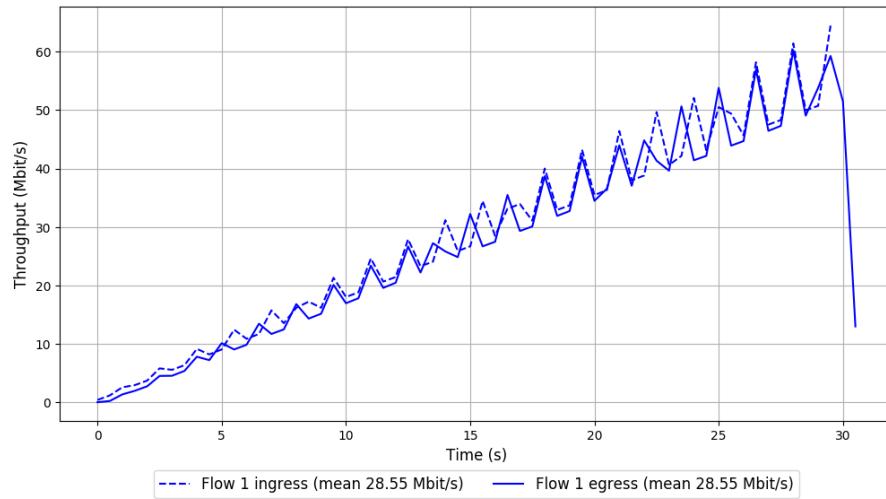


Run 2: Statistics of LEDBAT

```
Start at: 2019-02-06 00:13:05
End at: 2019-02-06 00:13:35
Local clock offset: -0.489 ms
Remote clock offset: 0.641 ms

# Below is generated by plot.py at 2019-02-06 04:07:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.55 Mbit/s
95th percentile per-packet one-way delay: 58.847 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 28.55 Mbit/s
95th percentile per-packet one-way delay: 58.847 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link

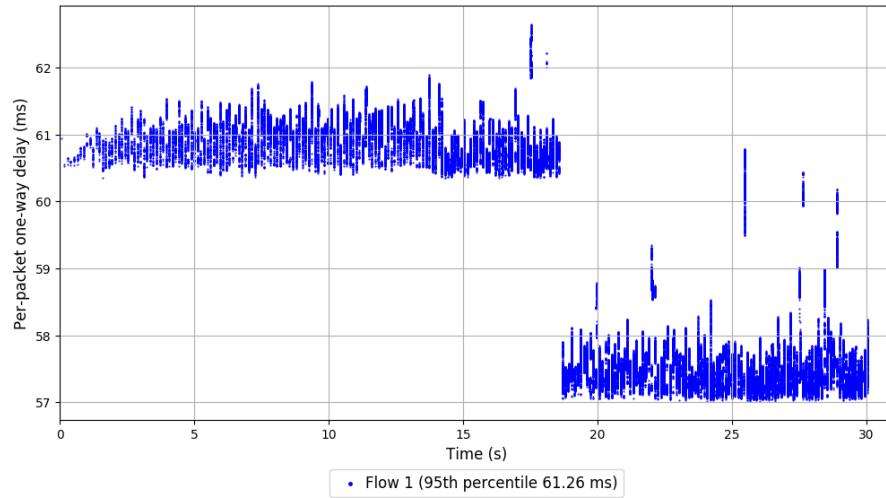
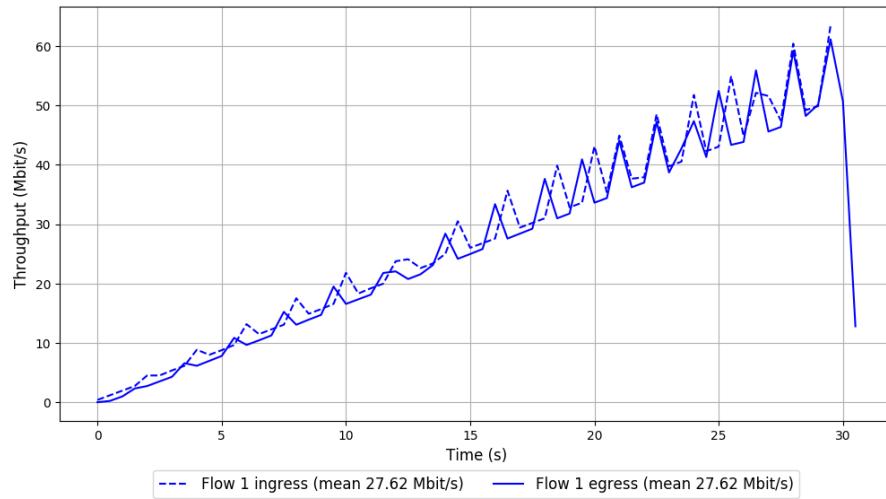


Run 3: Statistics of LEDBAT

```
Start at: 2019-02-06 00:45:05
End at: 2019-02-06 00:45:35
Local clock offset: -0.126 ms
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2019-02-06 04:07:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 27.62 Mbit/s
95th percentile per-packet one-way delay: 61.258 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 27.62 Mbit/s
95th percentile per-packet one-way delay: 61.258 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link

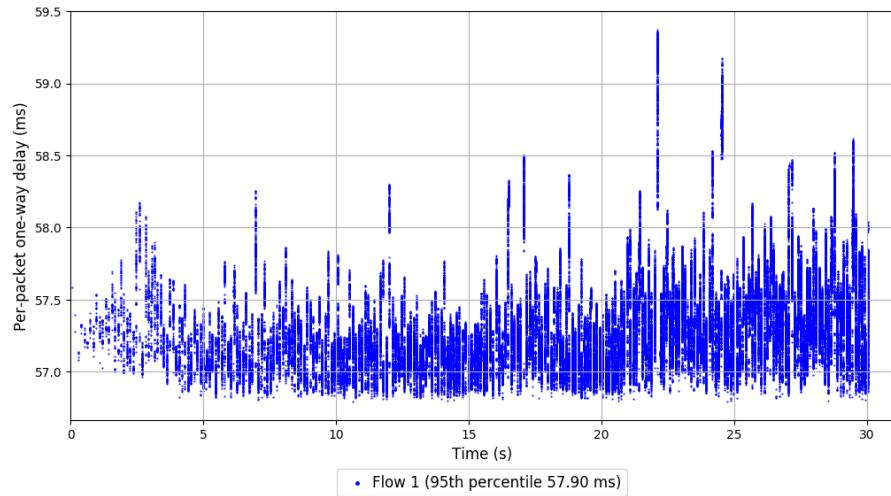
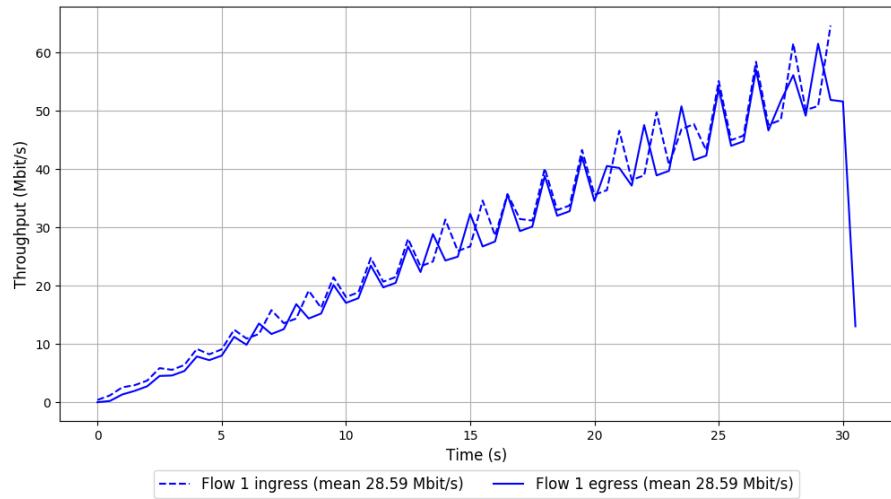


Run 4: Statistics of LEDBAT

```
Start at: 2019-02-06 01:17:57
End at: 2019-02-06 01:18:28
Local clock offset: -0.017 ms
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2019-02-06 04:07:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.59 Mbit/s
95th percentile per-packet one-way delay: 57.900 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 28.59 Mbit/s
95th percentile per-packet one-way delay: 57.900 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link

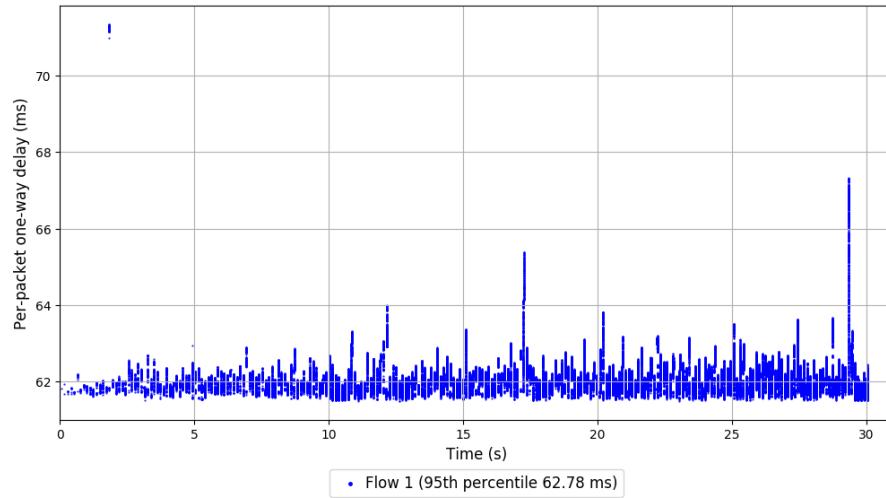
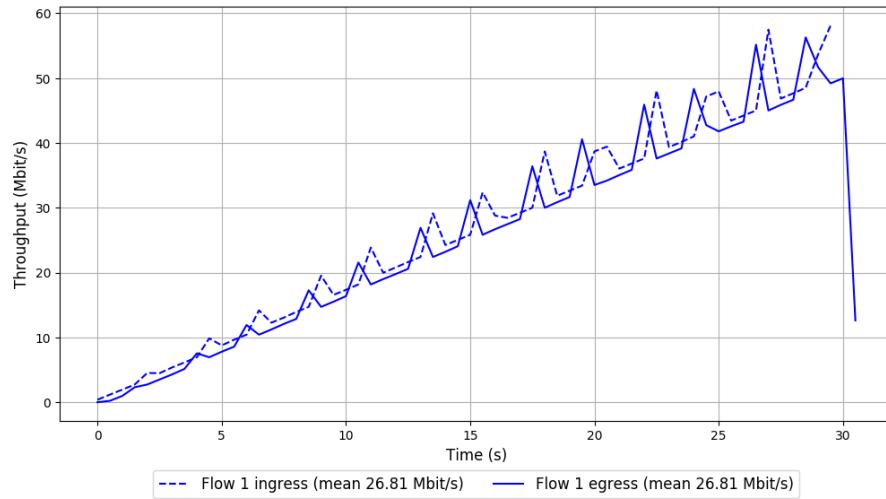


Run 5: Statistics of LEDBAT

```
Start at: 2019-02-06 01:50:48
End at: 2019-02-06 01:51:18
Local clock offset: -0.317 ms
Remote clock offset: 0.861 ms

# Below is generated by plot.py at 2019-02-06 04:07:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.81 Mbit/s
95th percentile per-packet one-way delay: 62.776 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 26.81 Mbit/s
95th percentile per-packet one-way delay: 62.776 ms
Loss rate: 0.00%
```

Run 5: Report of LEDBAT — Data Link

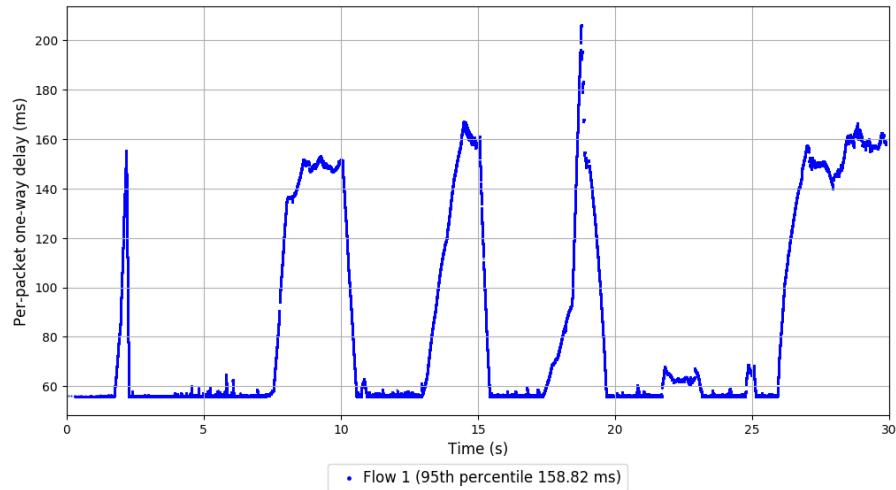
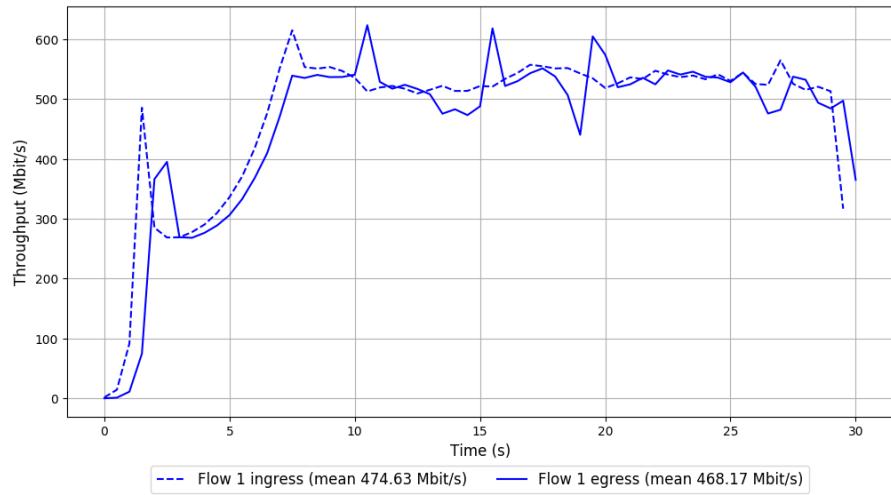


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-02-05 23:31:11
End at: 2019-02-05 23:31:41
Local clock offset: -0.286 ms
Remote clock offset: -1.414 ms

# Below is generated by plot.py at 2019-02-06 04:16:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 468.17 Mbit/s
95th percentile per-packet one-way delay: 158.820 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 468.17 Mbit/s
95th percentile per-packet one-way delay: 158.820 ms
Loss rate: 1.36%
```

Run 1: Report of PCC-Allegro — Data Link

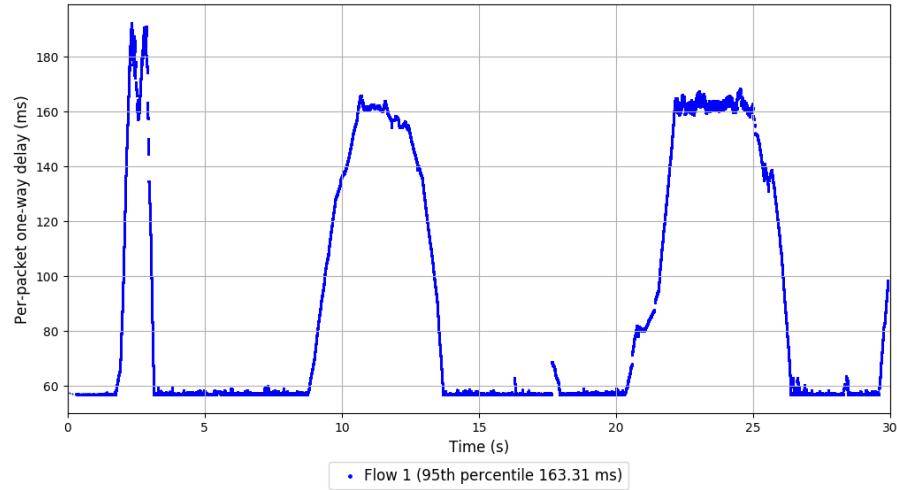
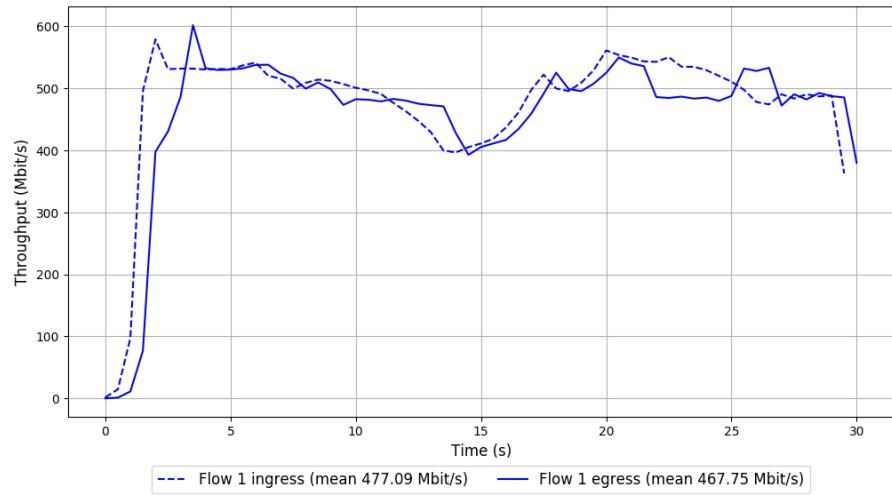


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-02-06 00:02:12
End at: 2019-02-06 00:02:42
Local clock offset: -0.128 ms
Remote clock offset: -0.517 ms

# Below is generated by plot.py at 2019-02-06 04:16:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 467.75 Mbit/s
95th percentile per-packet one-way delay: 163.306 ms
Loss rate: 1.96%
-- Flow 1:
Average throughput: 467.75 Mbit/s
95th percentile per-packet one-way delay: 163.306 ms
Loss rate: 1.96%
```

Run 2: Report of PCC-Allegro — Data Link

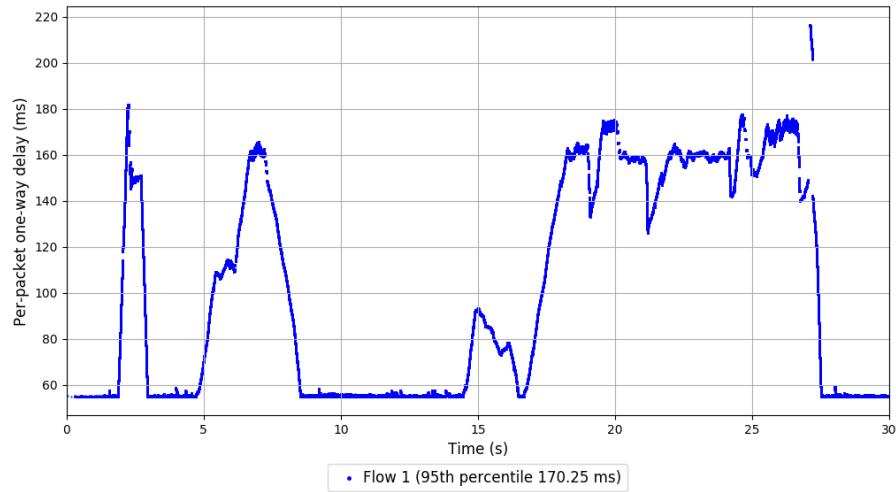
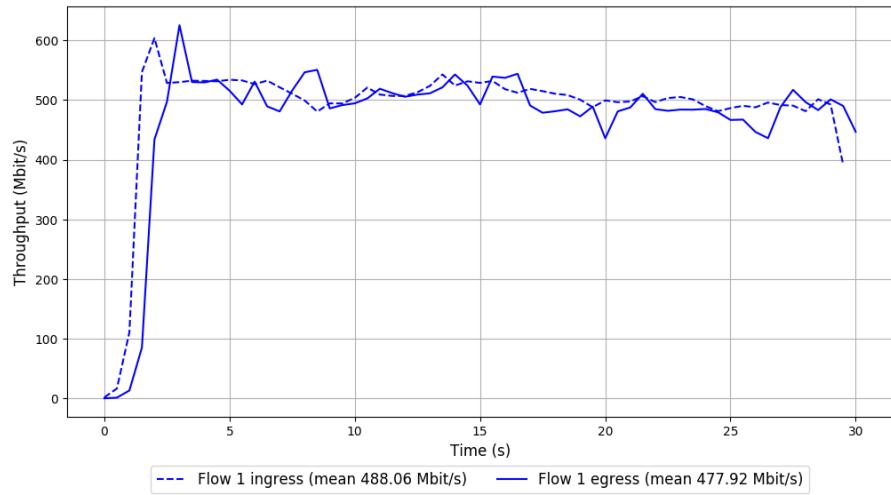


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-02-06 00:34:19
End at: 2019-02-06 00:34:49
Local clock offset: 0.368 ms
Remote clock offset: -1.574 ms

# Below is generated by plot.py at 2019-02-06 04:17:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 477.92 Mbit/s
95th percentile per-packet one-way delay: 170.249 ms
Loss rate: 2.08%
-- Flow 1:
Average throughput: 477.92 Mbit/s
95th percentile per-packet one-way delay: 170.249 ms
Loss rate: 2.08%
```

Run 3: Report of PCC-Allegro — Data Link

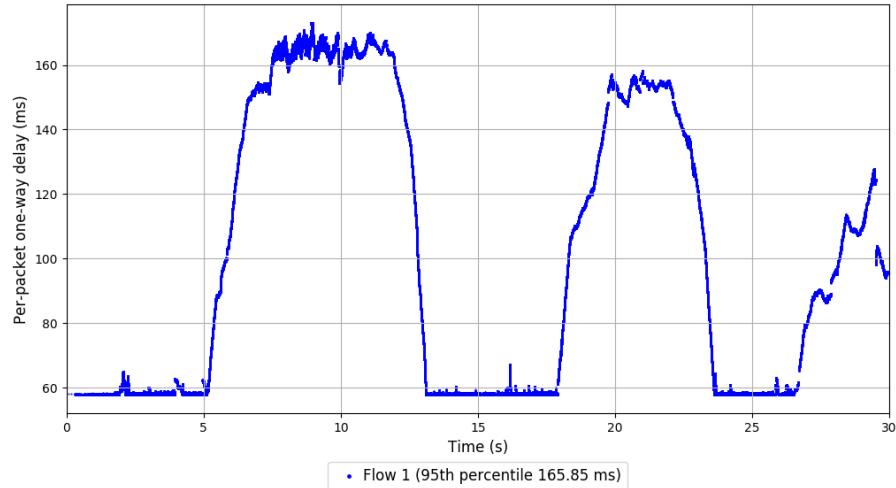
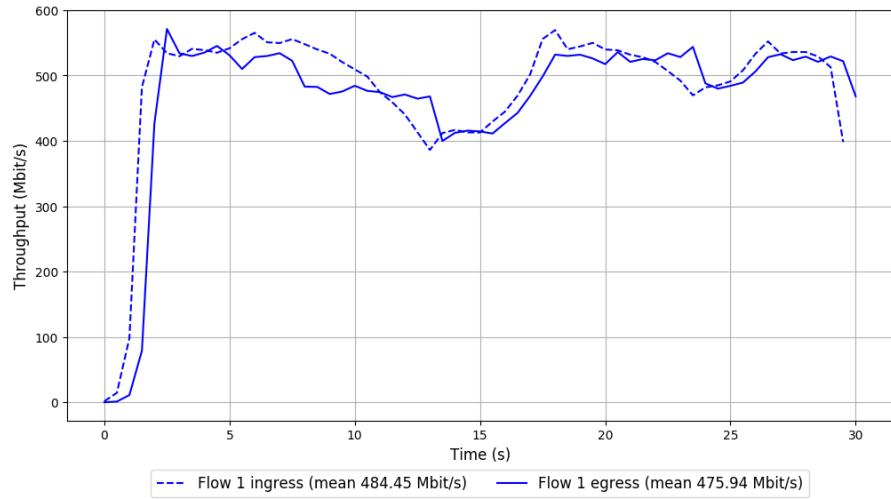


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-02-06 01:06:46
End at: 2019-02-06 01:07:16
Local clock offset: 0.186 ms
Remote clock offset: 0.833 ms

# Below is generated by plot.py at 2019-02-06 04:25:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 475.94 Mbit/s
95th percentile per-packet one-way delay: 165.854 ms
Loss rate: 1.75%
-- Flow 1:
Average throughput: 475.94 Mbit/s
95th percentile per-packet one-way delay: 165.854 ms
Loss rate: 1.75%
```

Run 4: Report of PCC-Allegro — Data Link

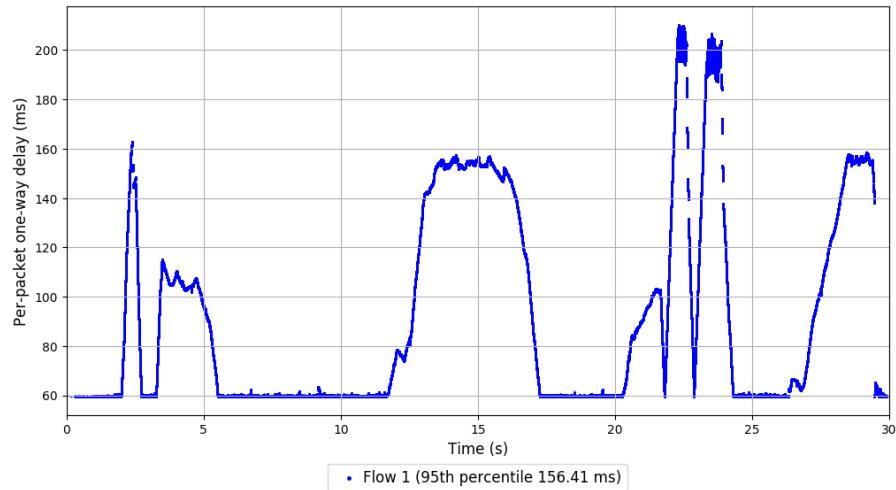
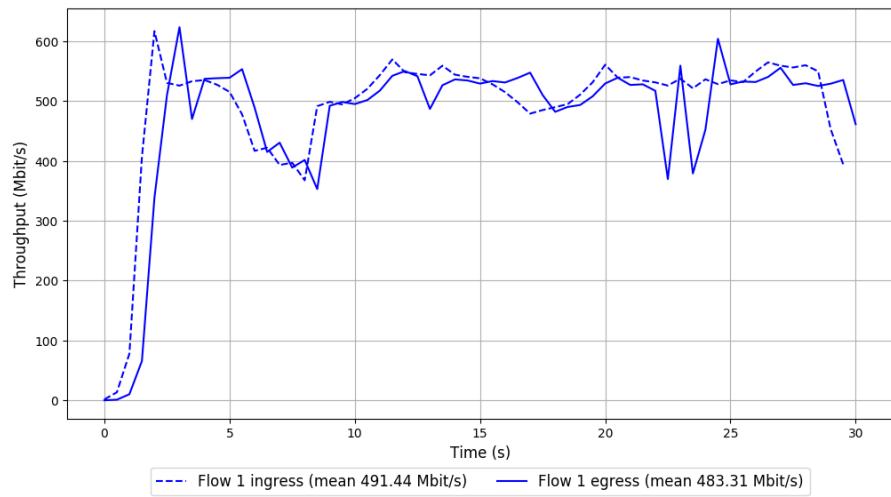


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-02-06 01:39:40
End at: 2019-02-06 01:40:10
Local clock offset: -0.03 ms
Remote clock offset: -0.876 ms

# Below is generated by plot.py at 2019-02-06 04:27:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 483.31 Mbit/s
95th percentile per-packet one-way delay: 156.406 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 483.31 Mbit/s
95th percentile per-packet one-way delay: 156.406 ms
Loss rate: 1.66%
```

Run 5: Report of PCC-Allegro — Data Link

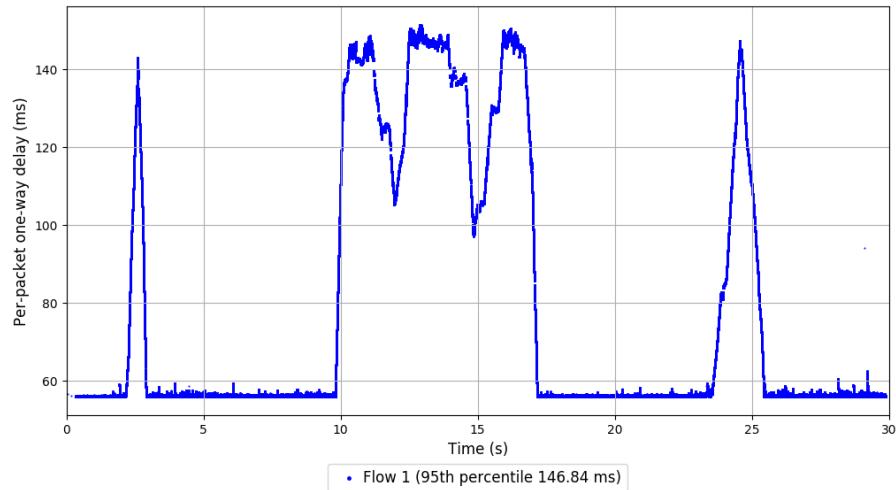
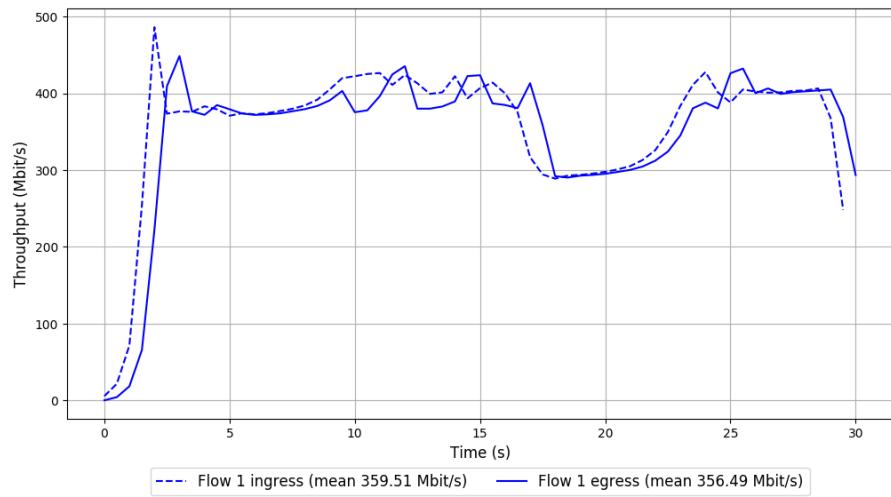


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-02-05 23:40:01
End at: 2019-02-05 23:40:31
Local clock offset: 0.356 ms
Remote clock offset: -0.36 ms

# Below is generated by plot.py at 2019-02-06 04:27:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 356.49 Mbit/s
95th percentile per-packet one-way delay: 146.845 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 356.49 Mbit/s
95th percentile per-packet one-way delay: 146.845 ms
Loss rate: 0.84%
```

Run 1: Report of PCC-Expr — Data Link

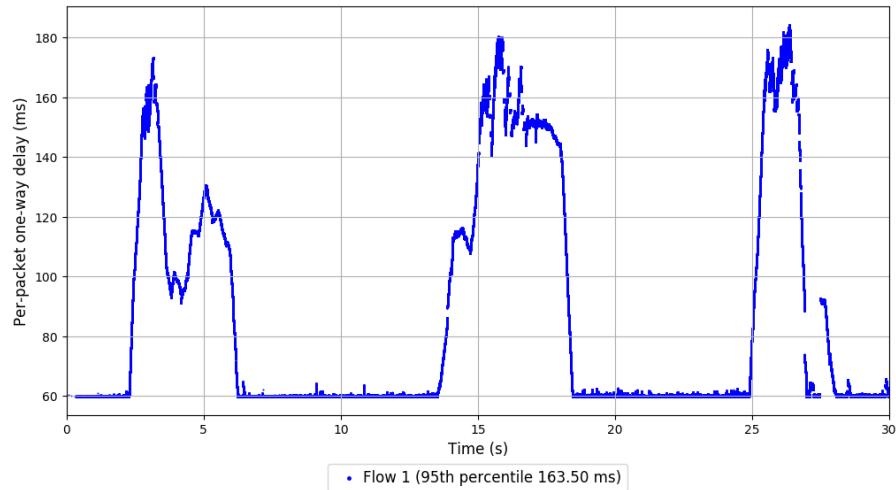
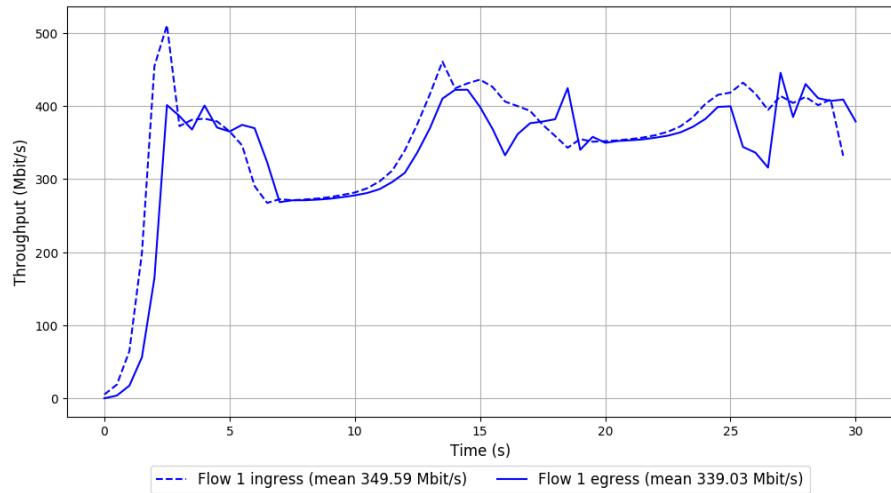


Run 2: Statistics of PCC-Expr

```
Start at: 2019-02-06 00:11:25
End at: 2019-02-06 00:11:55
Local clock offset: 0.014 ms
Remote clock offset: -0.622 ms

# Below is generated by plot.py at 2019-02-06 04:27:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 339.03 Mbit/s
95th percentile per-packet one-way delay: 163.501 ms
Loss rate: 3.03%
-- Flow 1:
Average throughput: 339.03 Mbit/s
95th percentile per-packet one-way delay: 163.501 ms
Loss rate: 3.03%
```

Run 2: Report of PCC-Expr — Data Link

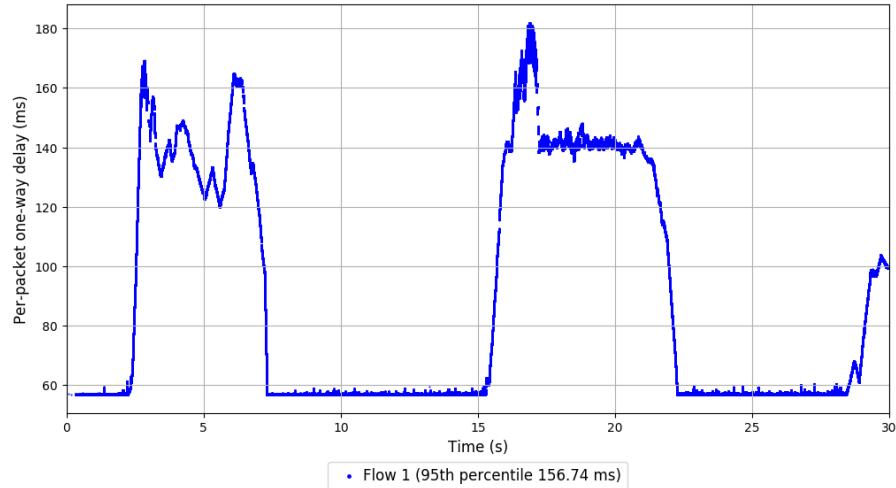
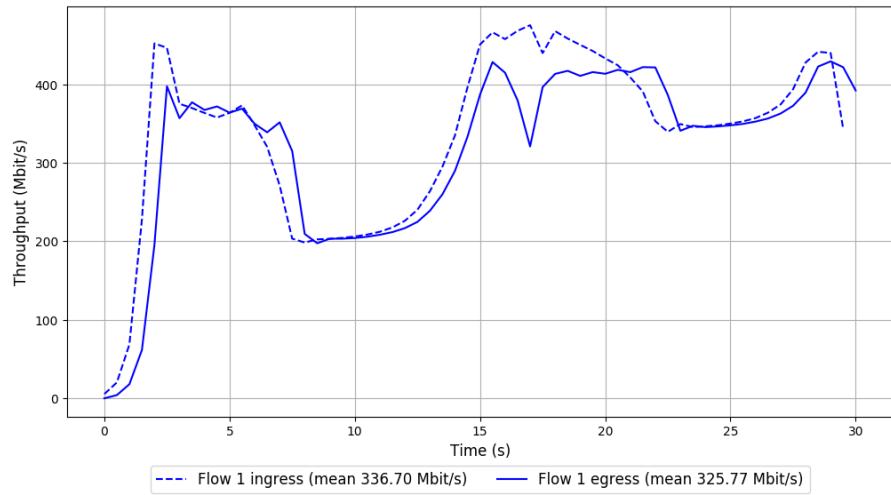


Run 3: Statistics of PCC-Expr

```
Start at: 2019-02-06 00:43:26
End at: 2019-02-06 00:43:56
Local clock offset: -0.325 ms
Remote clock offset: -0.813 ms

# Below is generated by plot.py at 2019-02-06 04:27:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 325.77 Mbit/s
95th percentile per-packet one-way delay: 156.739 ms
Loss rate: 3.25%
-- Flow 1:
Average throughput: 325.77 Mbit/s
95th percentile per-packet one-way delay: 156.739 ms
Loss rate: 3.25%
```

Run 3: Report of PCC-Expr — Data Link

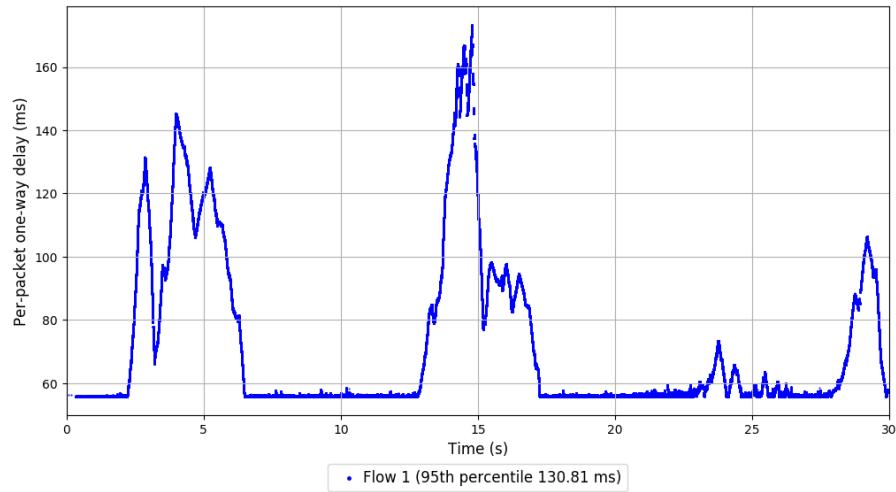
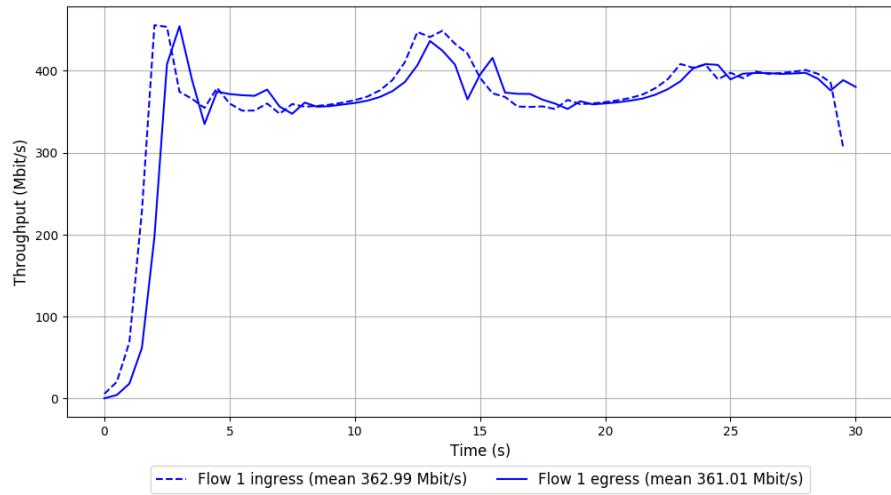


Run 4: Statistics of PCC-Expr

```
Start at: 2019-02-06 01:16:10
End at: 2019-02-06 01:16:40
Local clock offset: 0.06 ms
Remote clock offset: -1.299 ms

# Below is generated by plot.py at 2019-02-06 04:34:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 361.01 Mbit/s
95th percentile per-packet one-way delay: 130.807 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 361.01 Mbit/s
95th percentile per-packet one-way delay: 130.807 ms
Loss rate: 0.54%
```

Run 4: Report of PCC-Expr — Data Link

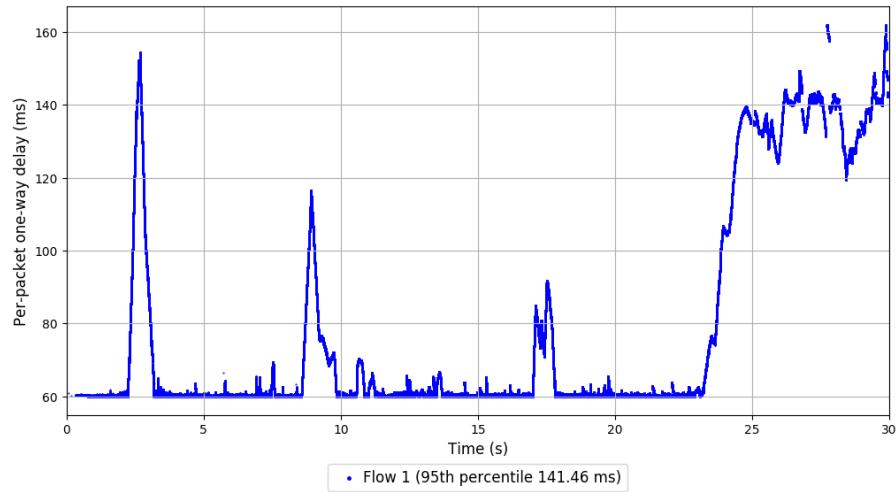
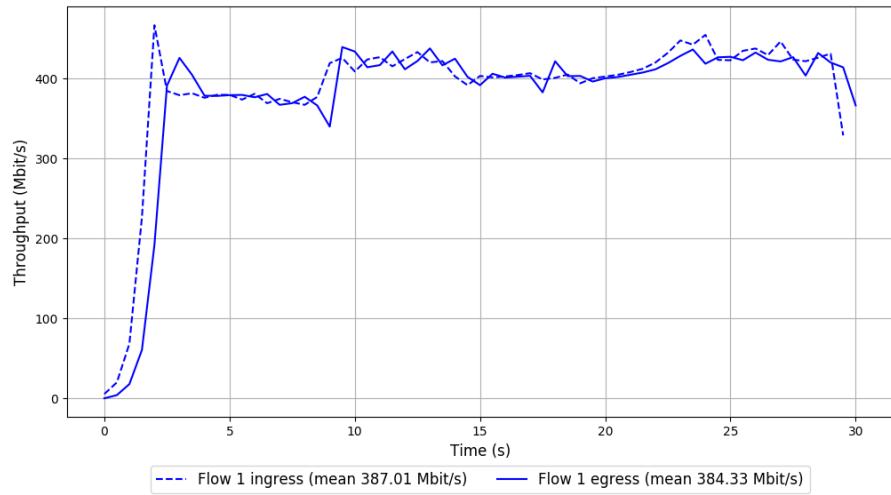


Run 5: Statistics of PCC-Expr

```
Start at: 2019-02-06 01:49:03
End at: 2019-02-06 01:49:33
Local clock offset: -0.047 ms
Remote clock offset: -0.528 ms

# Below is generated by plot.py at 2019-02-06 04:35:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 384.33 Mbit/s
95th percentile per-packet one-way delay: 141.456 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 384.33 Mbit/s
95th percentile per-packet one-way delay: 141.456 ms
Loss rate: 0.71%
```

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

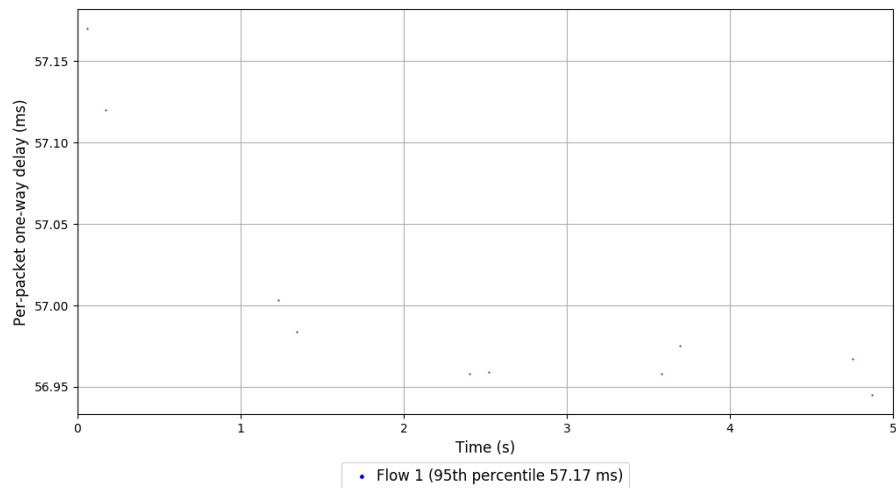
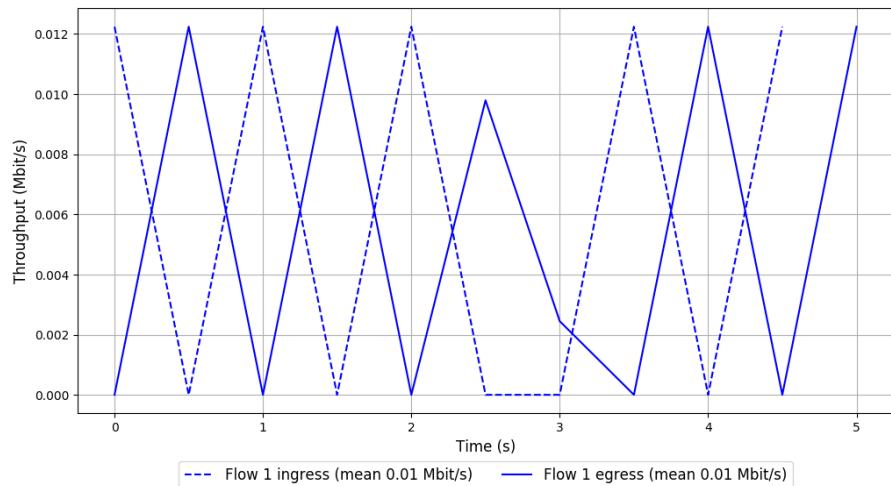
Start at: 2019-02-05 23:45:42

End at: 2019-02-05 23:46:12

Local clock offset: -0.503 ms

Remote clock offset: -0.67 ms

Run 1: Report of QUIC Cubic — Data Link

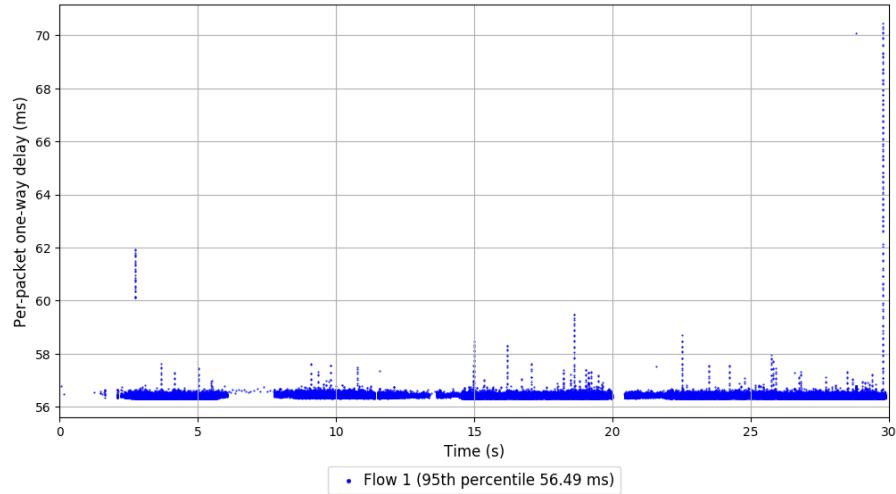
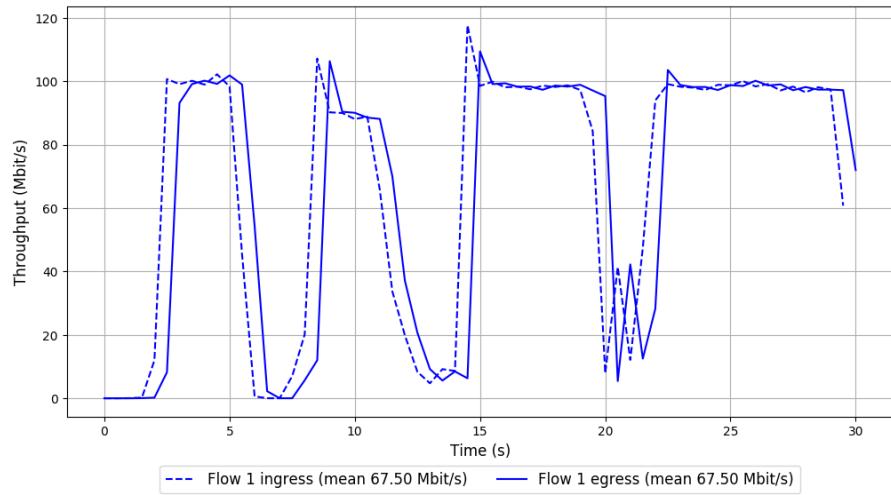


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-02-06 00:17:10
End at: 2019-02-06 00:17:40
Local clock offset: -0.073 ms
Remote clock offset: -0.635 ms

# Below is generated by plot.py at 2019-02-06 04:35:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.50 Mbit/s
95th percentile per-packet one-way delay: 56.495 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 67.50 Mbit/s
95th percentile per-packet one-way delay: 56.495 ms
Loss rate: 0.00%
```

Run 2: Report of QUIC Cubic — Data Link

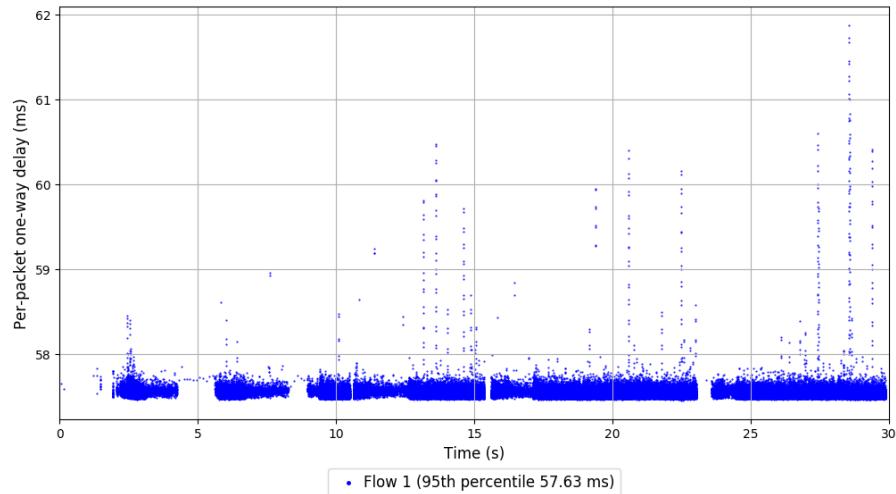
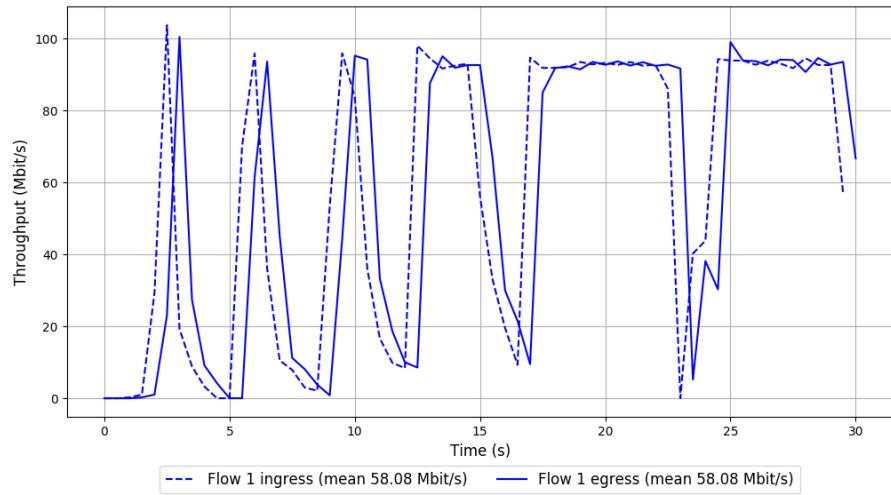


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-02-06 00:49:26
End at: 2019-02-06 00:49:56
Local clock offset: -0.236 ms
Remote clock offset: 0.496 ms

# Below is generated by plot.py at 2019-02-06 04:35:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.08 Mbit/s
95th percentile per-packet one-way delay: 57.627 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.08 Mbit/s
95th percentile per-packet one-way delay: 57.627 ms
Loss rate: 0.00%
```

Run 3: Report of QUIC Cubic — Data Link

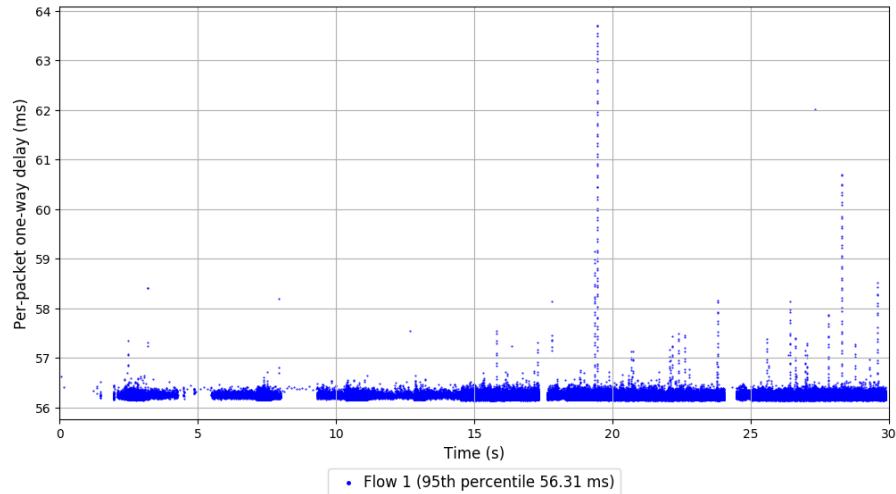
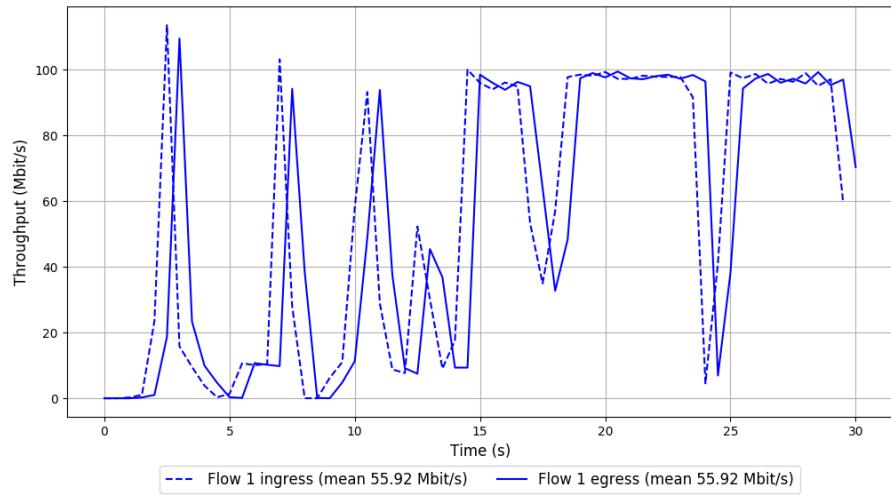


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-02-06 01:22:15
End at: 2019-02-06 01:22:45
Local clock offset: 0.049 ms
Remote clock offset: -0.75 ms

# Below is generated by plot.py at 2019-02-06 04:35:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.92 Mbit/s
95th percentile per-packet one-way delay: 56.311 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.92 Mbit/s
95th percentile per-packet one-way delay: 56.311 ms
Loss rate: 0.00%
```

Run 4: Report of QUIC Cubic — Data Link

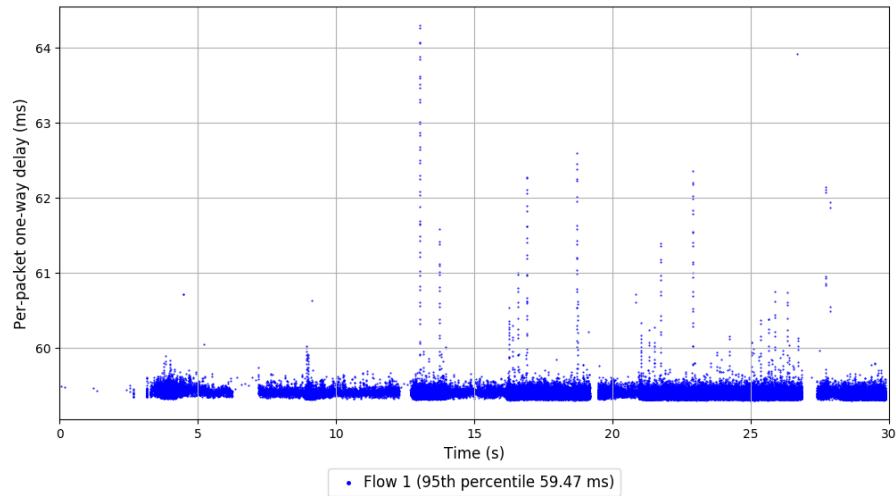
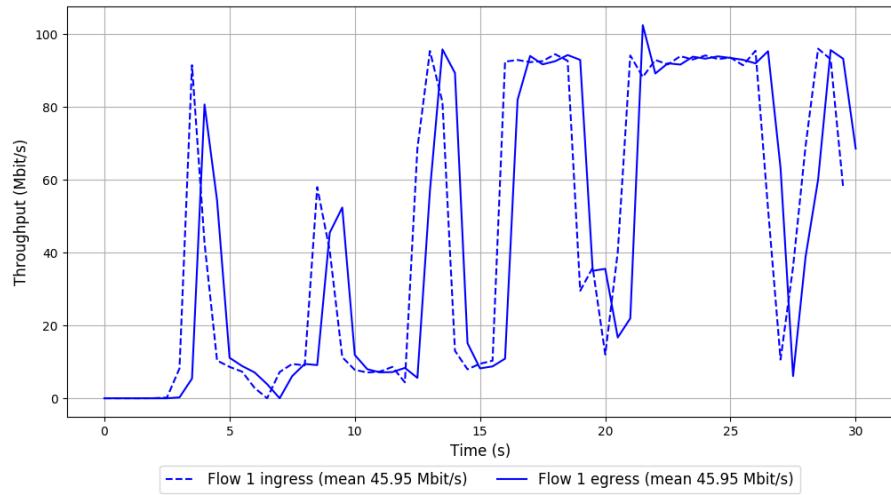


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-02-06 01:54:52
End at: 2019-02-06 01:55:22
Local clock offset: 0.129 ms
Remote clock offset: -0.84 ms

# Below is generated by plot.py at 2019-02-06 04:35:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 45.95 Mbit/s
95th percentile per-packet one-way delay: 59.473 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 45.95 Mbit/s
95th percentile per-packet one-way delay: 59.473 ms
Loss rate: 0.02%
```

Run 5: Report of QUIC Cubic — Data Link

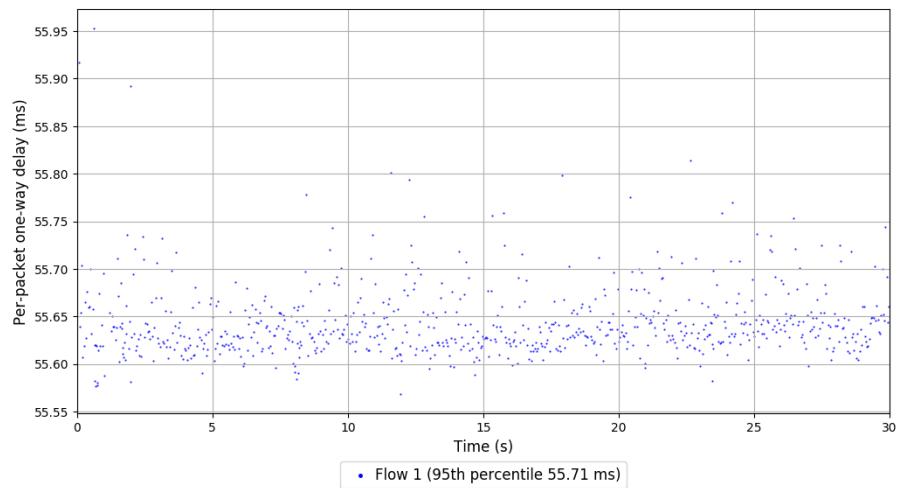
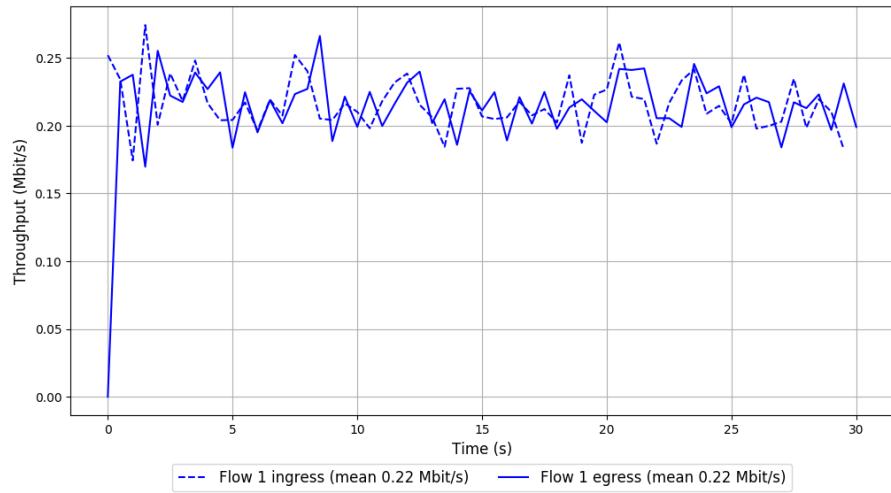


Run 1: Statistics of SCReAM

```
Start at: 2019-02-05 23:38:53
End at: 2019-02-05 23:39:23
Local clock offset: -0.248 ms
Remote clock offset: -1.37 ms

# Below is generated by plot.py at 2019-02-06 04:35:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 55.712 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 55.712 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

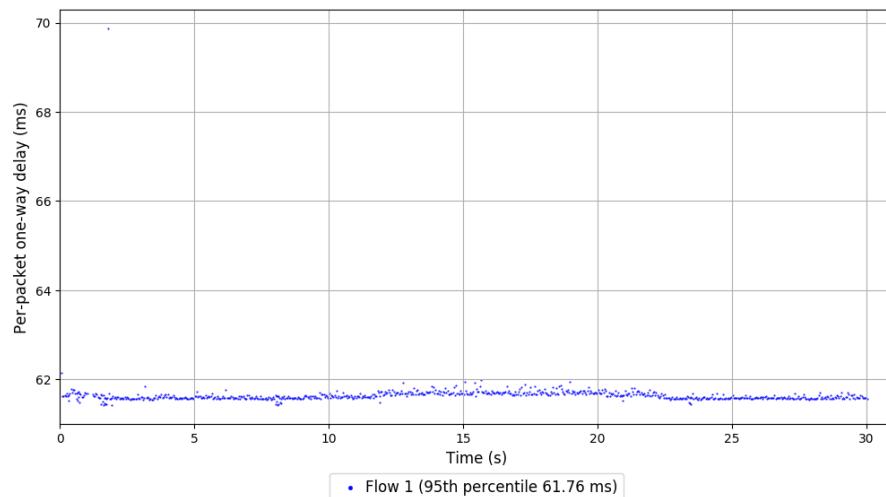
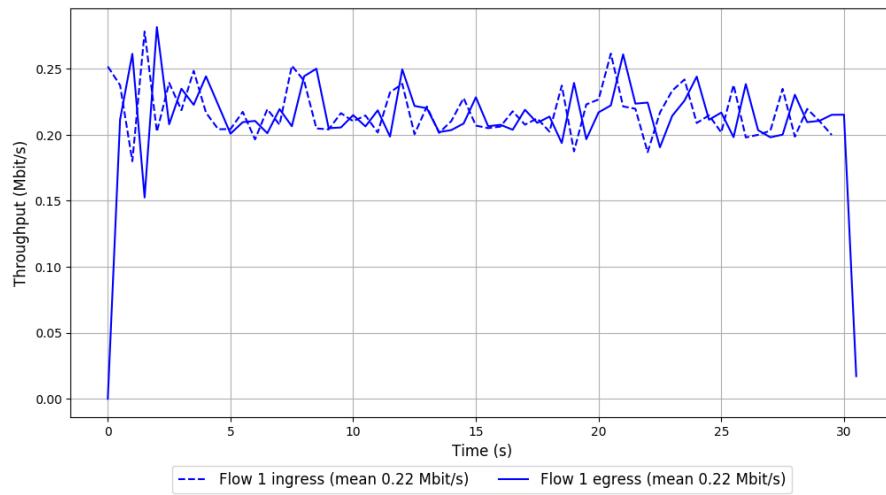


Run 2: Statistics of SCReAM

```
Start at: 2019-02-06 00:10:17
End at: 2019-02-06 00:10:47
Local clock offset: -0.227 ms
Remote clock offset: 0.737 ms

# Below is generated by plot.py at 2019-02-06 04:35:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.756 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.756 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

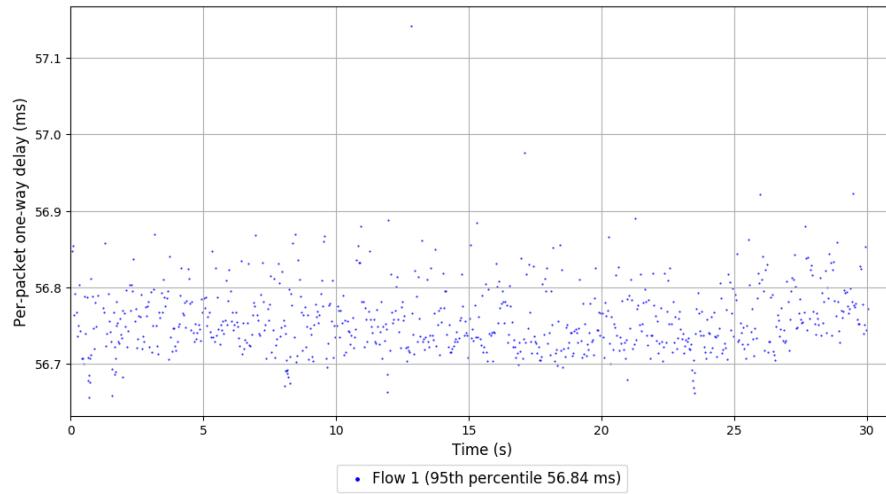
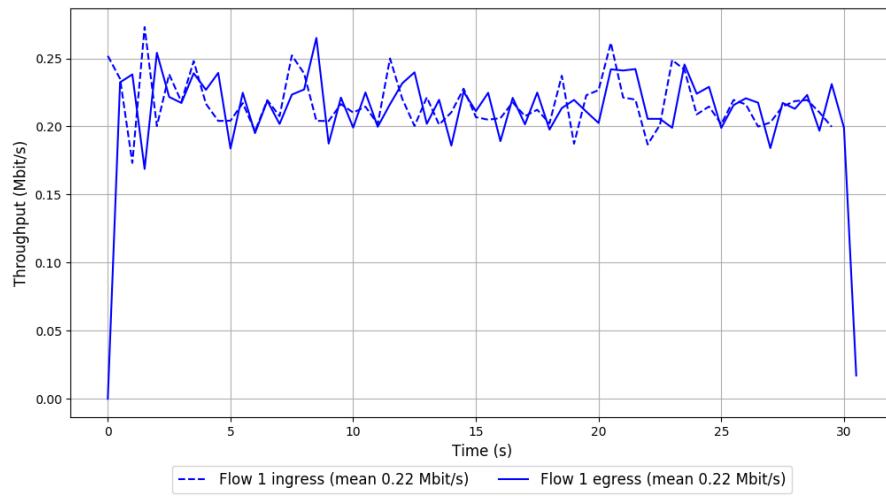


Run 3: Statistics of SCReAM

```
Start at: 2019-02-06 00:42:18
End at: 2019-02-06 00:42:48
Local clock offset: -0.309 ms
Remote clock offset: -0.739 ms

# Below is generated by plot.py at 2019-02-06 04:35:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.837 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.837 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

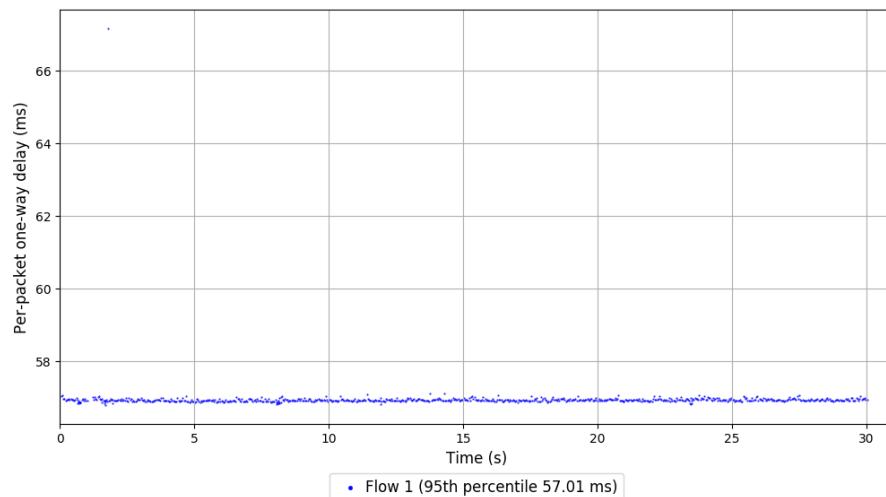
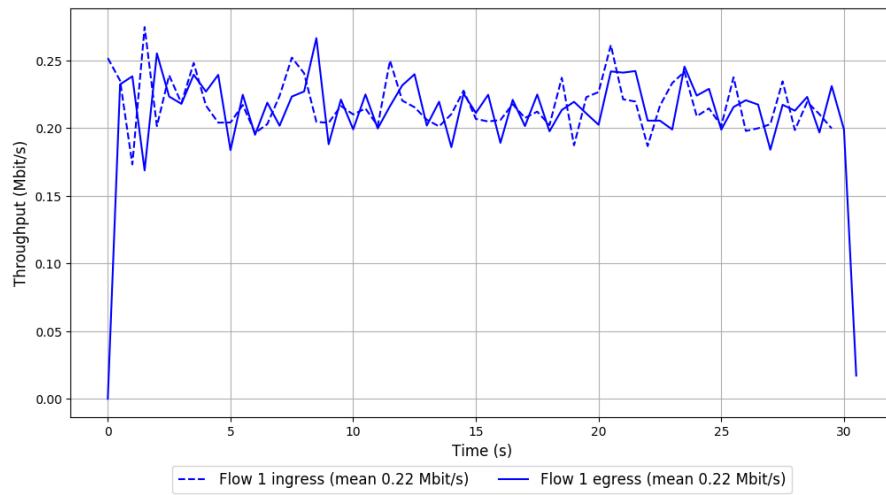


Run 4: Statistics of SCReAM

```
Start at: 2019-02-06 01:15:02
End at: 2019-02-06 01:15:32
Local clock offset: -0.007 ms
Remote clock offset: -0.292 ms

# Below is generated by plot.py at 2019-02-06 04:35:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.012 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.012 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

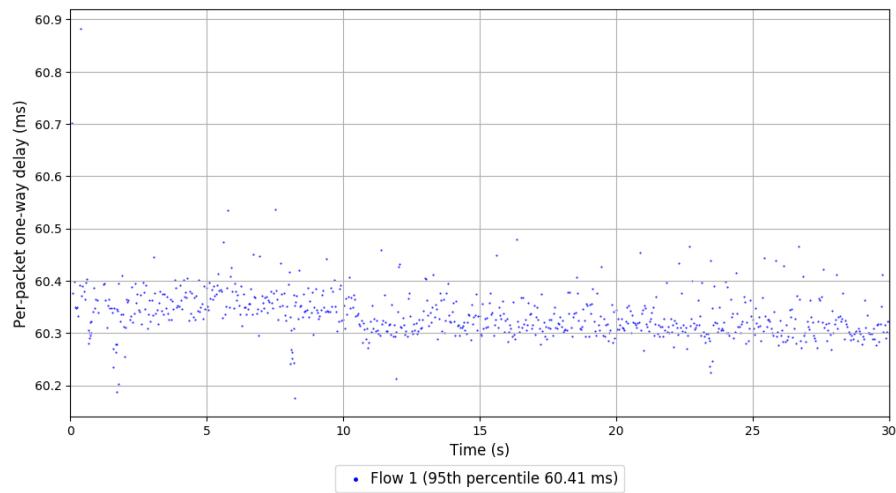
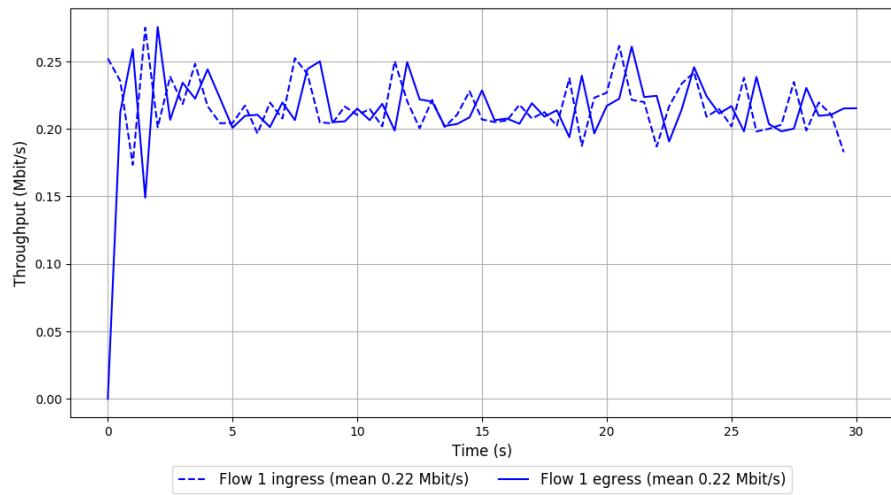


Run 5: Statistics of SCReAM

```
Start at: 2019-02-06 01:47:55
End at: 2019-02-06 01:48:25
Local clock offset: -0.051 ms
Remote clock offset: -0.178 ms

# Below is generated by plot.py at 2019-02-06 04:35:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.405 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.405 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

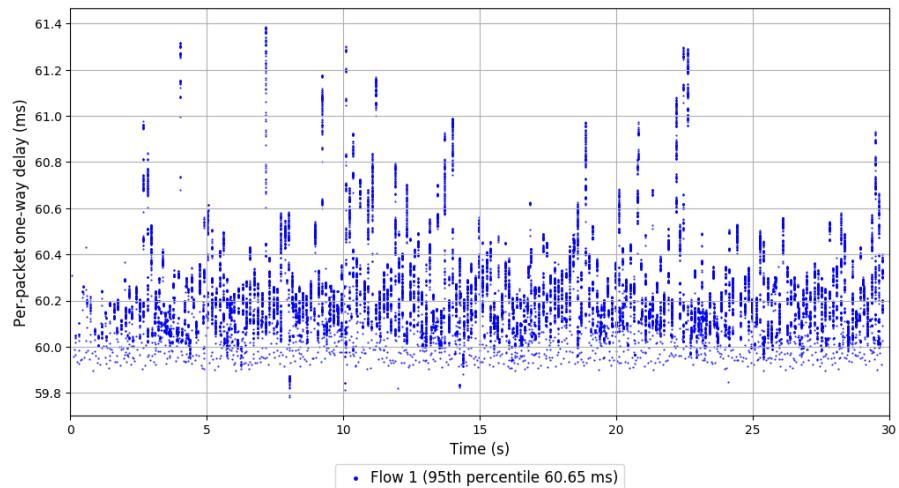
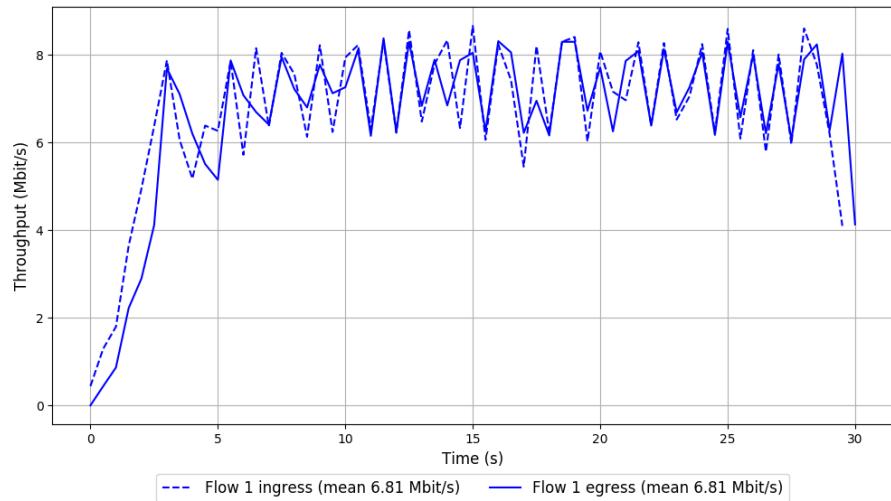


Run 1: Statistics of Sprout

```
Start at: 2019-02-05 23:32:52
End at: 2019-02-05 23:33:22
Local clock offset: 0.314 ms
Remote clock offset: -0.159 ms

# Below is generated by plot.py at 2019-02-06 04:35:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.81 Mbit/s
95th percentile per-packet one-way delay: 60.654 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.81 Mbit/s
95th percentile per-packet one-way delay: 60.654 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

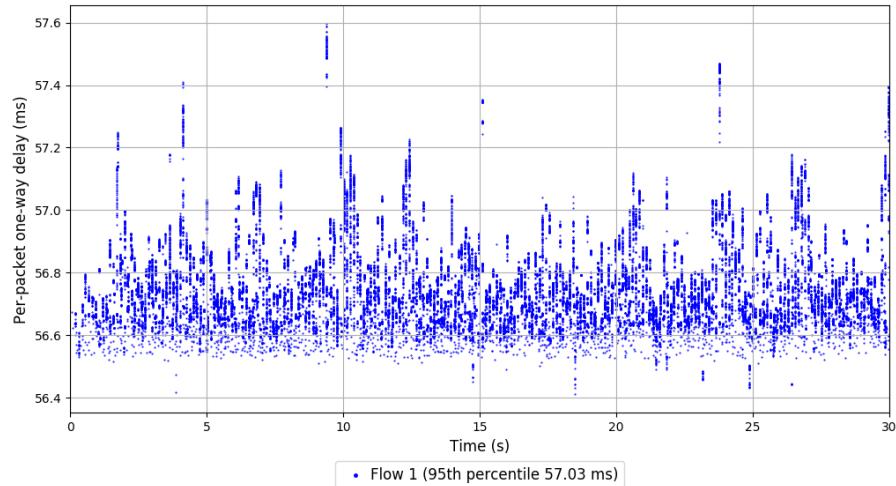
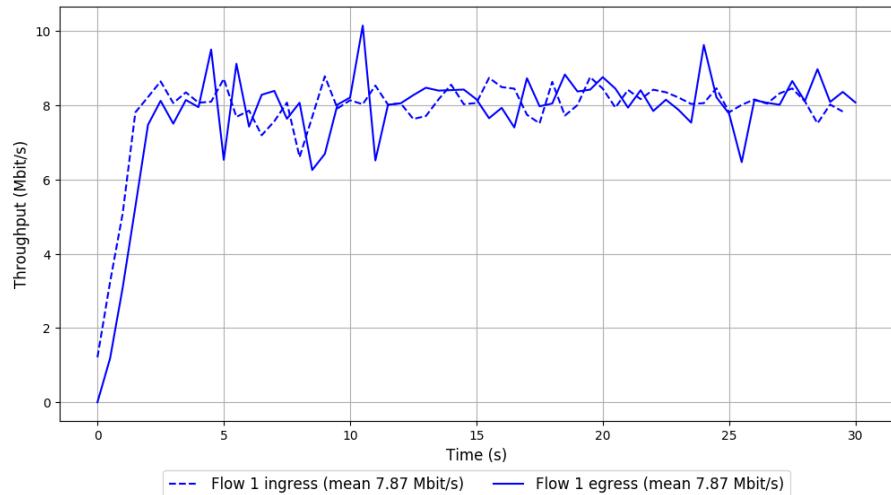


Run 2: Statistics of Sprout

```
Start at: 2019-02-06 00:03:50
End at: 2019-02-06 00:04:20
Local clock offset: -0.143 ms
Remote clock offset: -0.635 ms

# Below is generated by plot.py at 2019-02-06 04:35:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.87 Mbit/s
95th percentile per-packet one-way delay: 57.030 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.87 Mbit/s
95th percentile per-packet one-way delay: 57.030 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

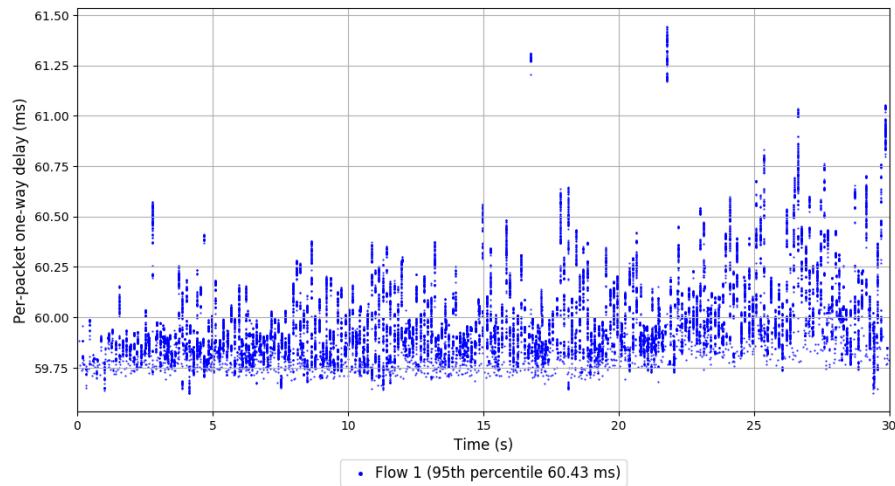
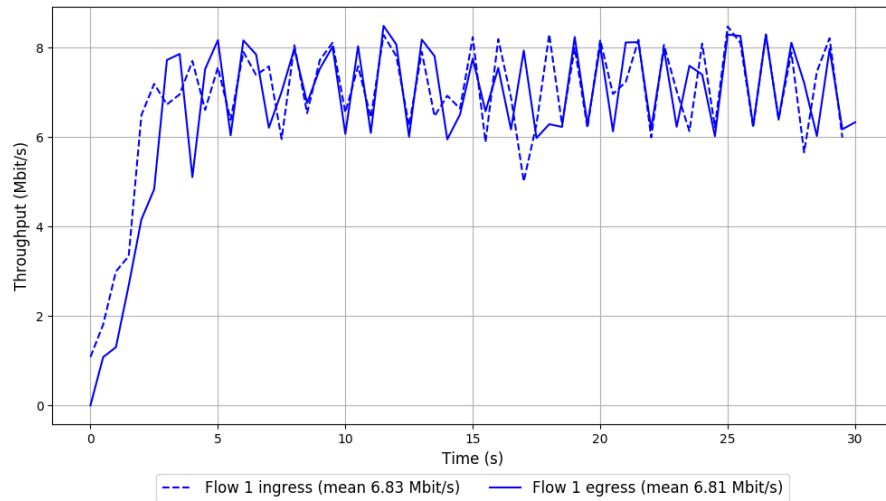


Run 3: Statistics of Sprout

```
Start at: 2019-02-06 00:36:02
End at: 2019-02-06 00:36:32
Local clock offset: 0.22 ms
Remote clock offset: -0.734 ms

# Below is generated by plot.py at 2019-02-06 04:35:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.81 Mbit/s
95th percentile per-packet one-way delay: 60.428 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 6.81 Mbit/s
95th percentile per-packet one-way delay: 60.428 ms
Loss rate: 0.42%
```

Run 3: Report of Sprout — Data Link

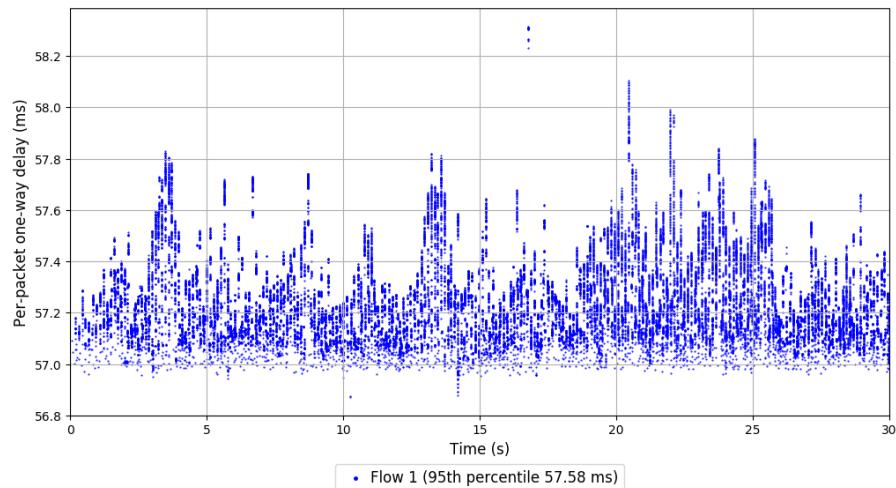
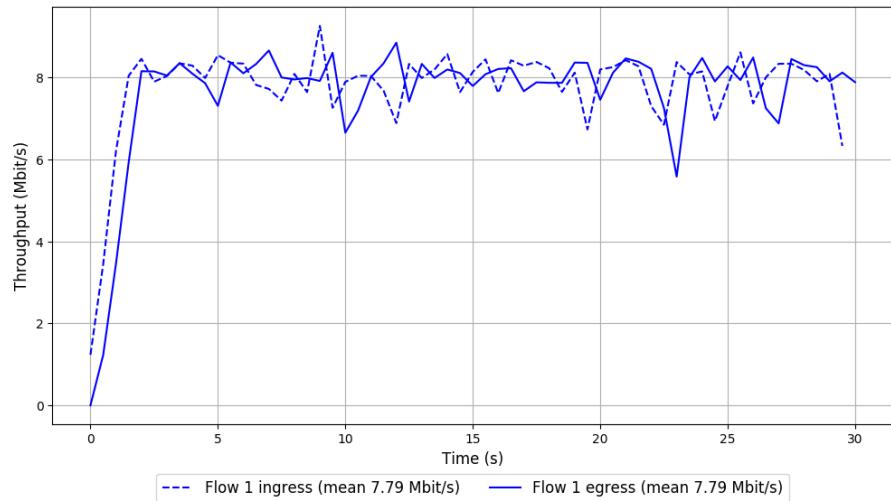


Run 4: Statistics of Sprout

```
Start at: 2019-02-06 01:08:27
End at: 2019-02-06 01:08:57
Local clock offset: 0.296 ms
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2019-02-06 04:35:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.79 Mbit/s
95th percentile per-packet one-way delay: 57.578 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.79 Mbit/s
95th percentile per-packet one-way delay: 57.578 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

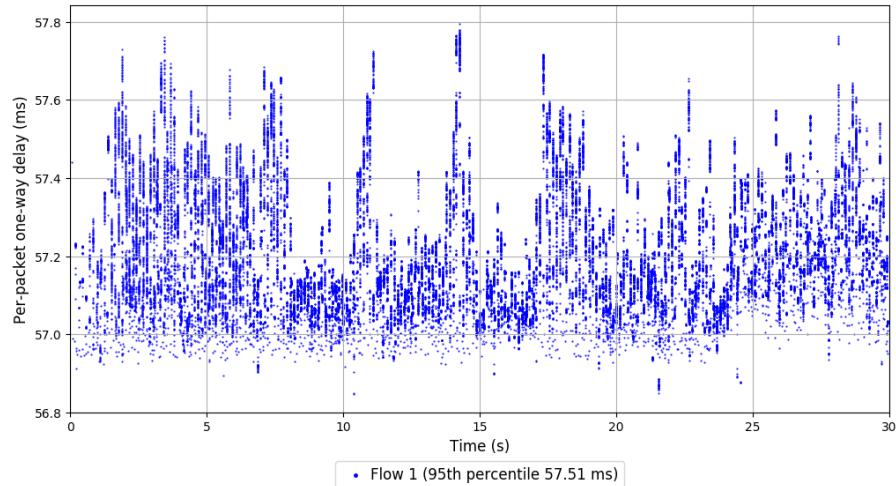
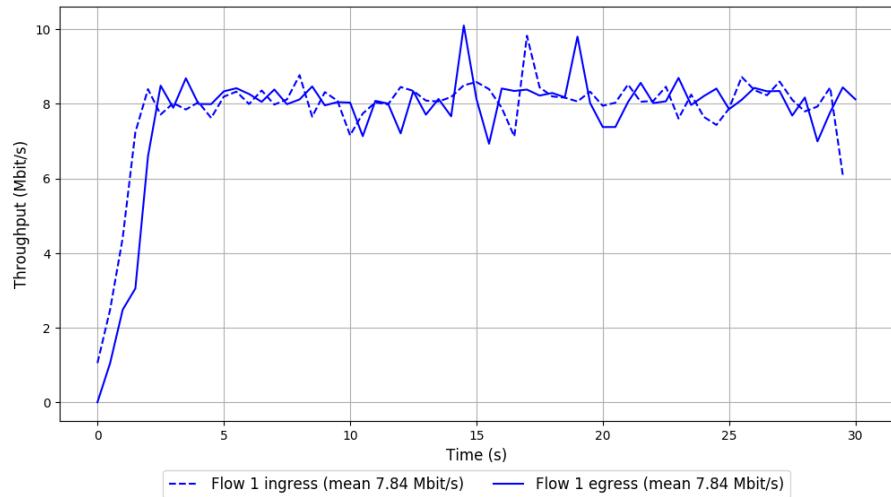


Run 5: Statistics of Sprout

```
Start at: 2019-02-06 01:41:37
End at: 2019-02-06 01:42:07
Local clock offset: 0.133 ms
Remote clock offset: -0.234 ms

# Below is generated by plot.py at 2019-02-06 04:35:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.84 Mbit/s
95th percentile per-packet one-way delay: 57.513 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.84 Mbit/s
95th percentile per-packet one-way delay: 57.513 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

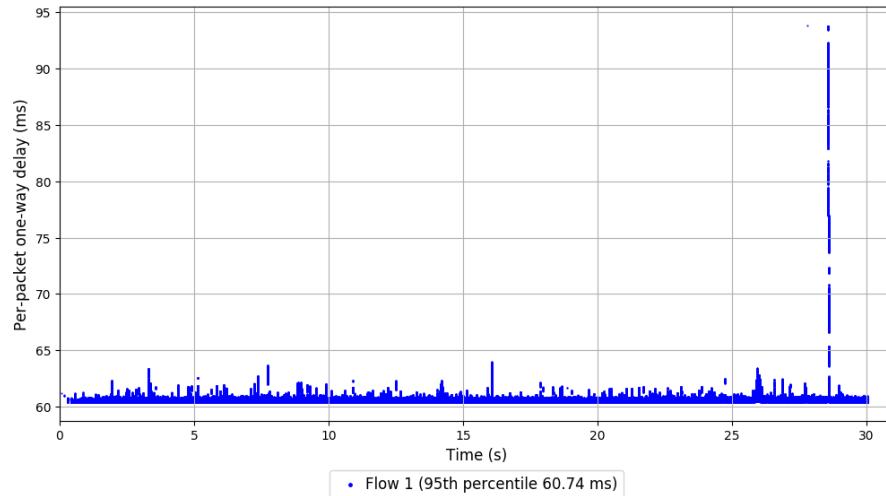
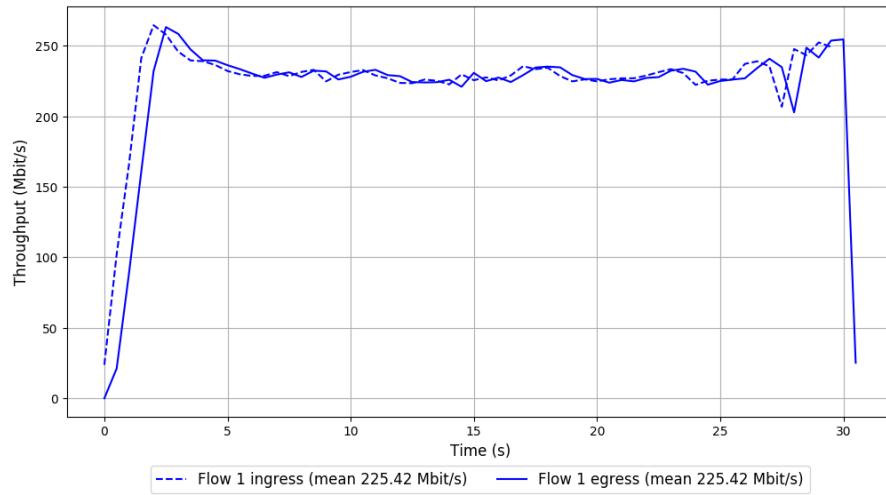


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-02-05 23:56:27
End at: 2019-02-05 23:56:58
Local clock offset: -0.275 ms
Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2019-02-06 04:35:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 225.42 Mbit/s
95th percentile per-packet one-way delay: 60.745 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 225.42 Mbit/s
95th percentile per-packet one-way delay: 60.745 ms
Loss rate: 0.01%
```

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

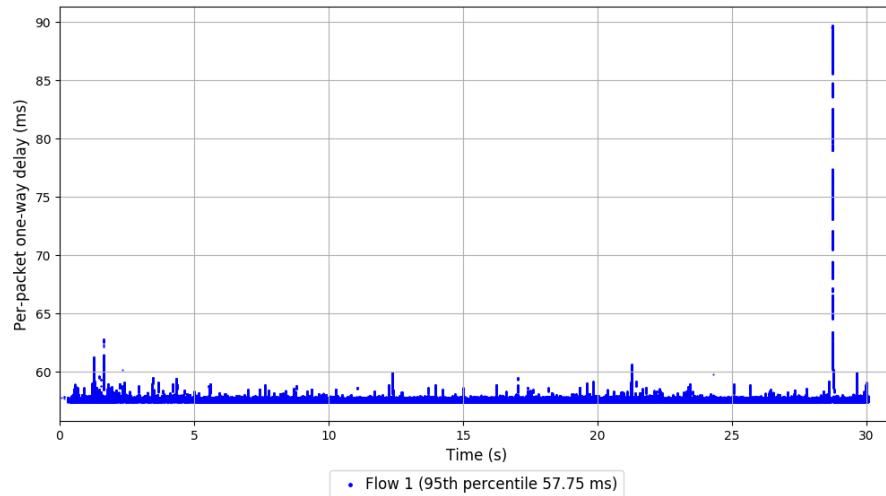
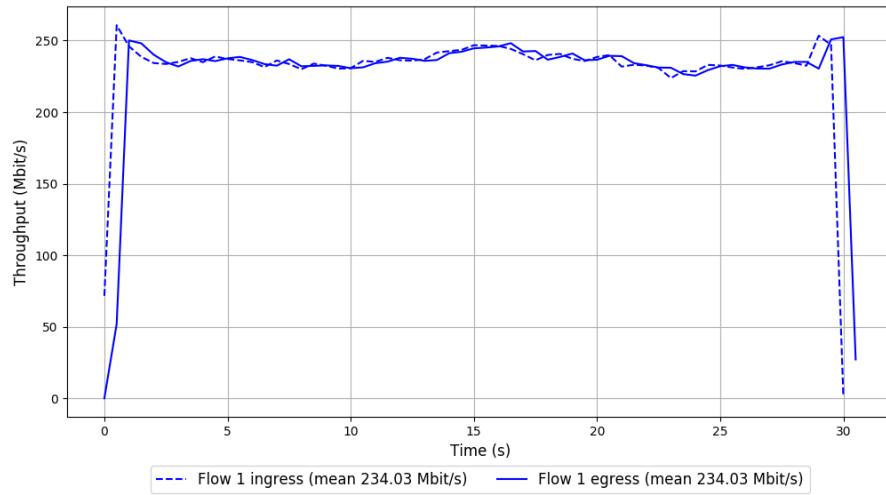


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-02-06 00:28:30
End at: 2019-02-06 00:29:00
Local clock offset: -0.345 ms
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2019-02-06 04:35:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 234.03 Mbit/s
95th percentile per-packet one-way delay: 57.748 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 234.03 Mbit/s
95th percentile per-packet one-way delay: 57.748 ms
Loss rate: 0.00%
```

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

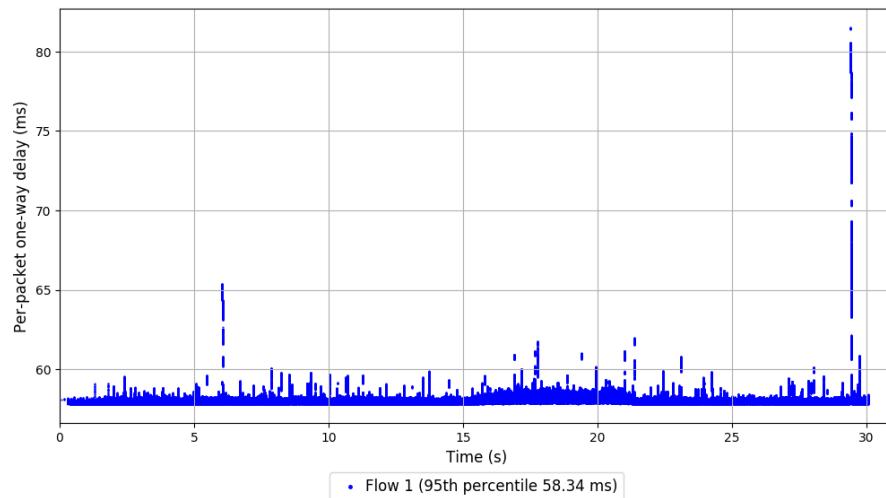
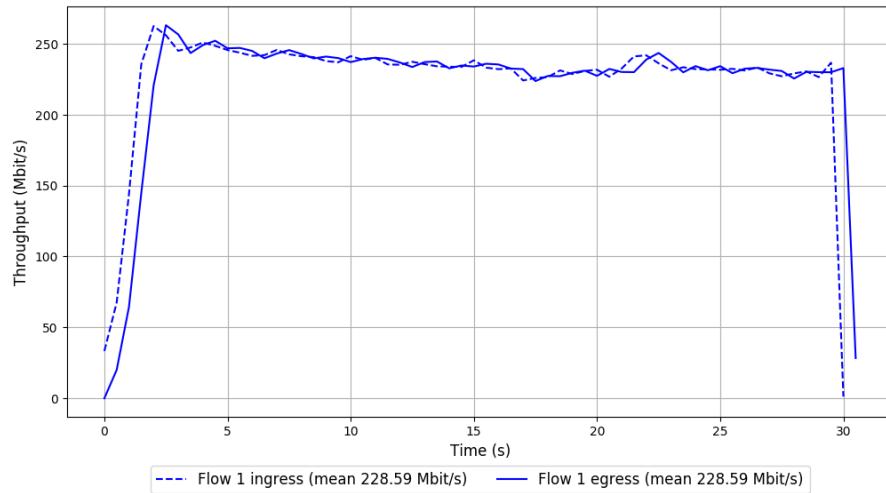


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-02-06 01:00:57
End at: 2019-02-06 01:01:27
Local clock offset: -0.435 ms
Remote clock offset: 0.414 ms

# Below is generated by plot.py at 2019-02-06 04:35:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 228.59 Mbit/s
95th percentile per-packet one-way delay: 58.340 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 228.59 Mbit/s
95th percentile per-packet one-way delay: 58.340 ms
Loss rate: 0.00%
```

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

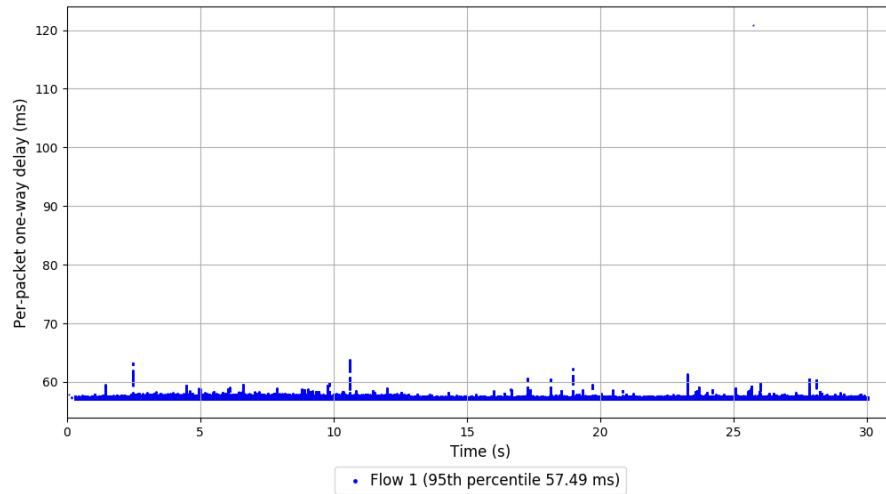
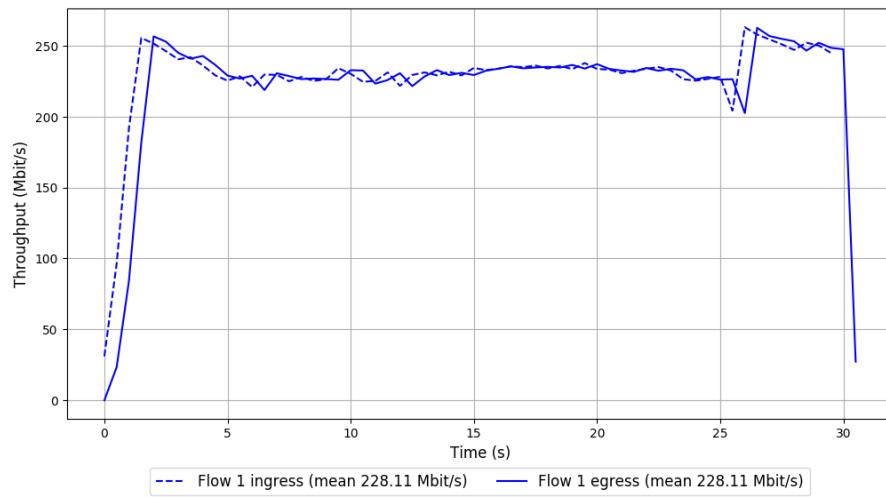


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-02-06 01:33:21
End at: 2019-02-06 01:33:51
Local clock offset: 0.258 ms
Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2019-02-06 04:35:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 228.11 Mbit/s
95th percentile per-packet one-way delay: 57.490 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 228.11 Mbit/s
95th percentile per-packet one-way delay: 57.490 ms
Loss rate: 0.00%
```

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

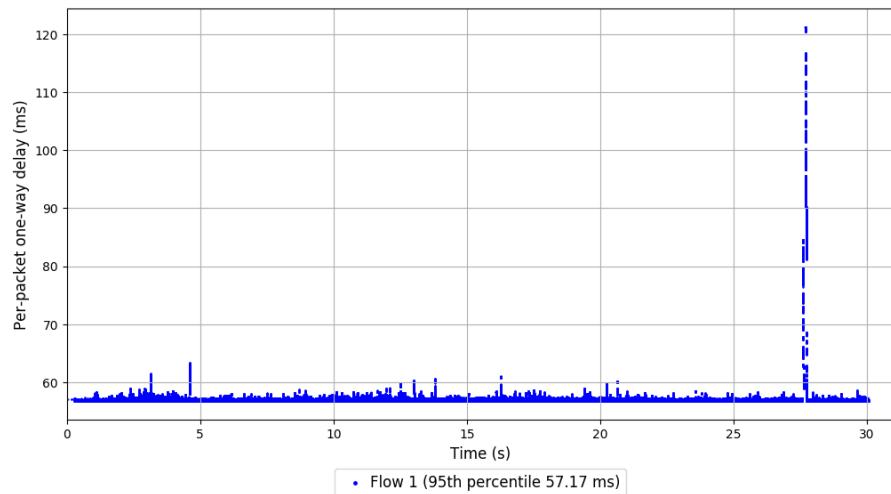
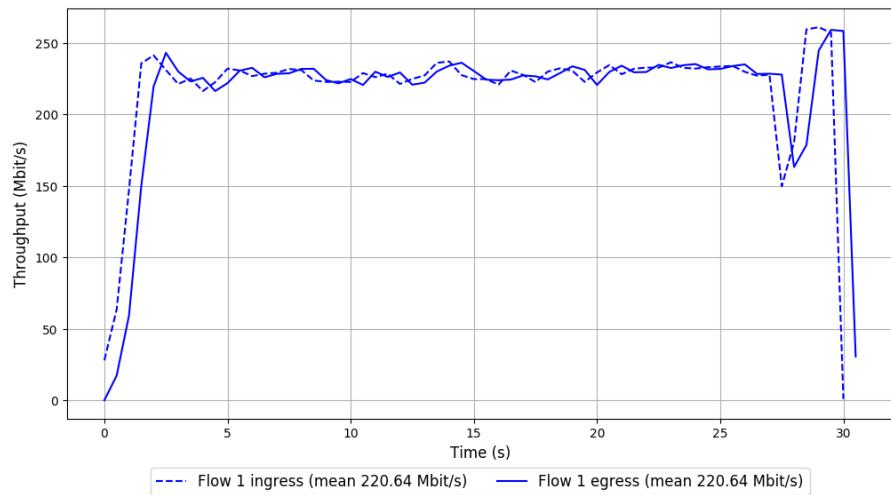


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-02-06 02:05:50
End at: 2019-02-06 02:06:20
Local clock offset: -0.284 ms
Remote clock offset: -0.481 ms

# Below is generated by plot.py at 2019-02-06 04:35:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 220.64 Mbit/s
95th percentile per-packet one-way delay: 57.168 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 220.64 Mbit/s
95th percentile per-packet one-way delay: 57.168 ms
Loss rate: 0.00%
```

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

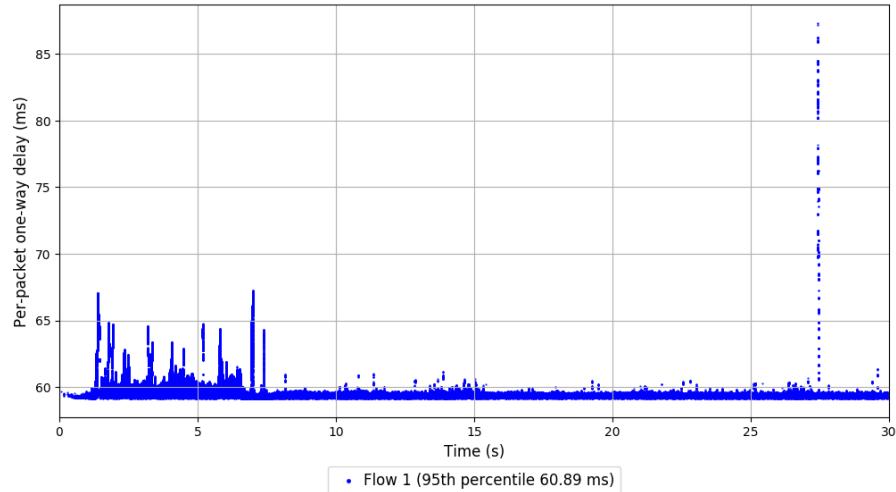
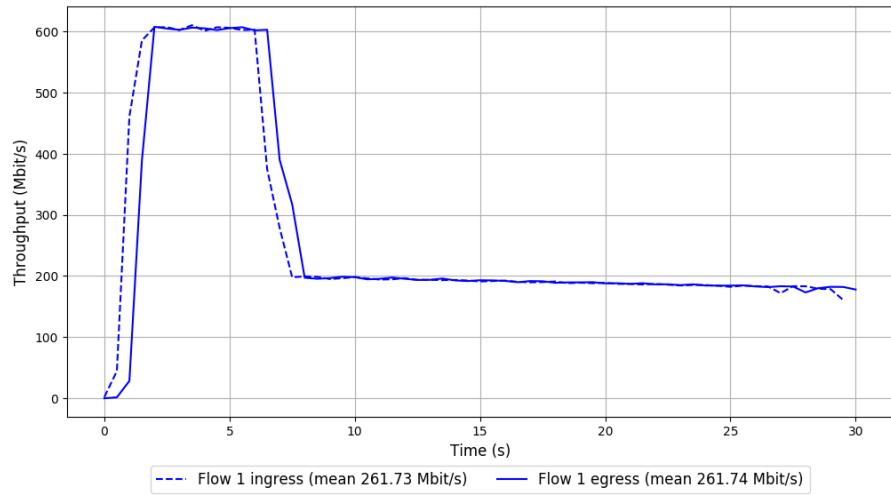


Run 1: Statistics of TCP Vegas

```
Start at: 2019-02-05 23:55:07
End at: 2019-02-05 23:55:37
Local clock offset: 0.169 ms
Remote clock offset: -0.497 ms

# Below is generated by plot.py at 2019-02-06 04:35:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 261.74 Mbit/s
95th percentile per-packet one-way delay: 60.893 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 261.74 Mbit/s
95th percentile per-packet one-way delay: 60.893 ms
Loss rate: 0.01%
```

Run 1: Report of TCP Vegas — Data Link

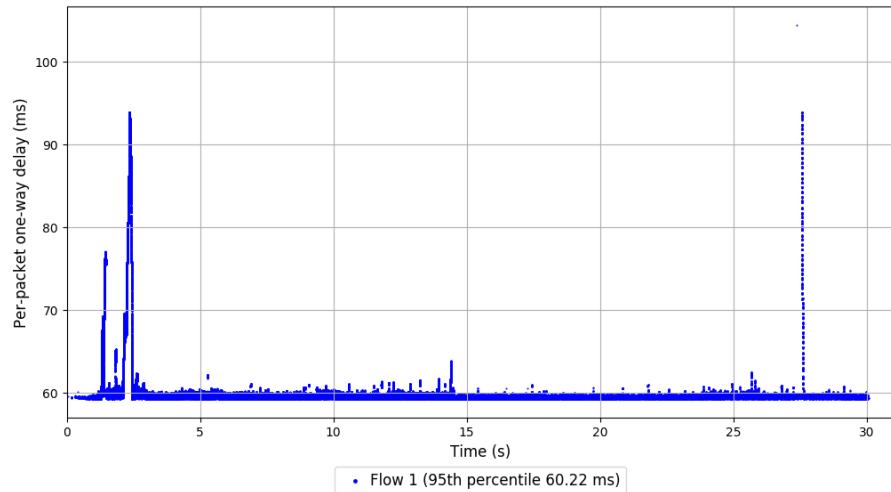
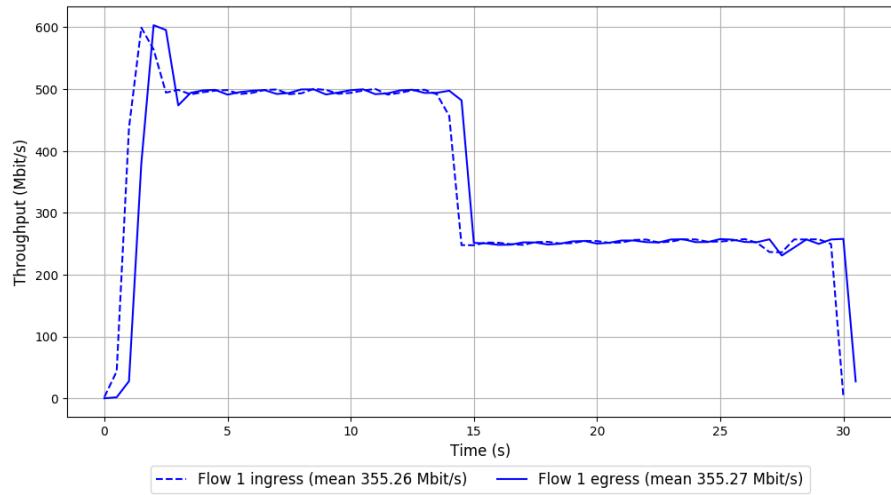


Run 2: Statistics of TCP Vegas

```
Start at: 2019-02-06 00:27:04
End at: 2019-02-06 00:27:34
Local clock offset: 0.114 ms
Remote clock offset: -0.655 ms

# Below is generated by plot.py at 2019-02-06 04:42:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 355.27 Mbit/s
95th percentile per-packet one-way delay: 60.222 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 355.27 Mbit/s
95th percentile per-packet one-way delay: 60.222 ms
Loss rate: 0.01%
```

Run 2: Report of TCP Vegas — Data Link

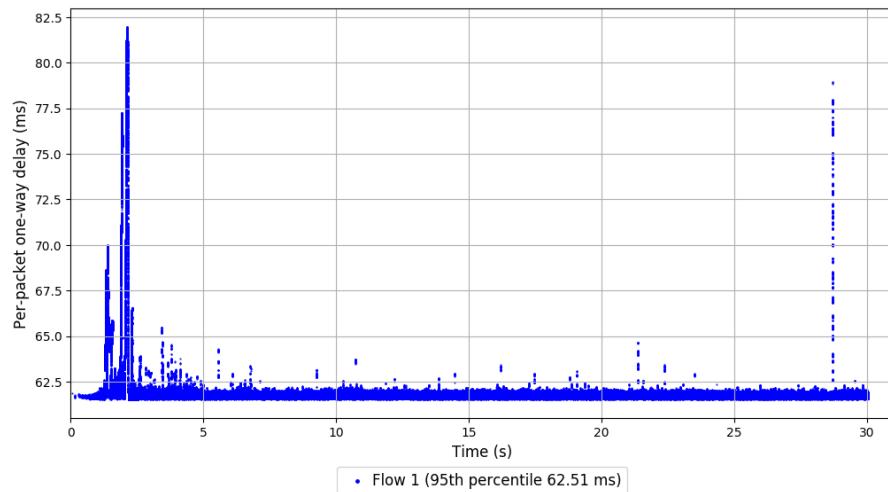
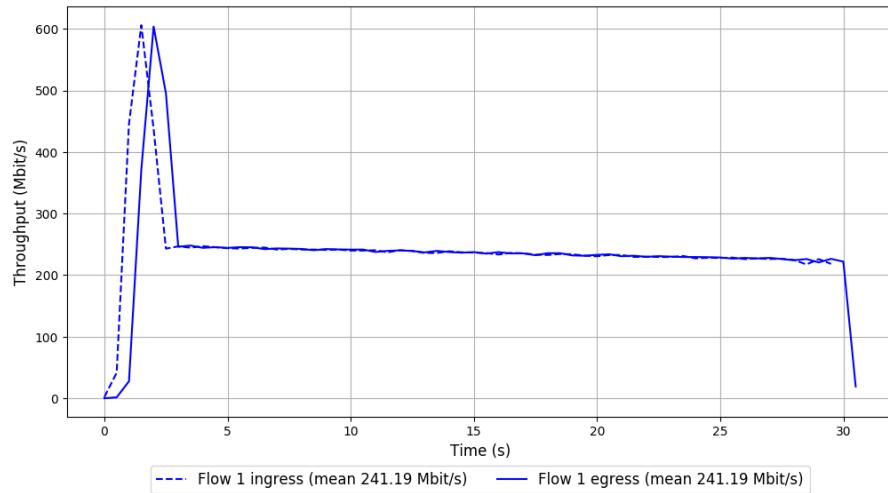


Run 3: Statistics of TCP Vegas

```
Start at: 2019-02-06 00:59:36
End at: 2019-02-06 01:00:06
Local clock offset: -0.456 ms
Remote clock offset: 0.641 ms

# Below is generated by plot.py at 2019-02-06 04:42:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 241.19 Mbit/s
95th percentile per-packet one-way delay: 62.505 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 241.19 Mbit/s
95th percentile per-packet one-way delay: 62.505 ms
Loss rate: 0.01%
```

Run 3: Report of TCP Vegas — Data Link

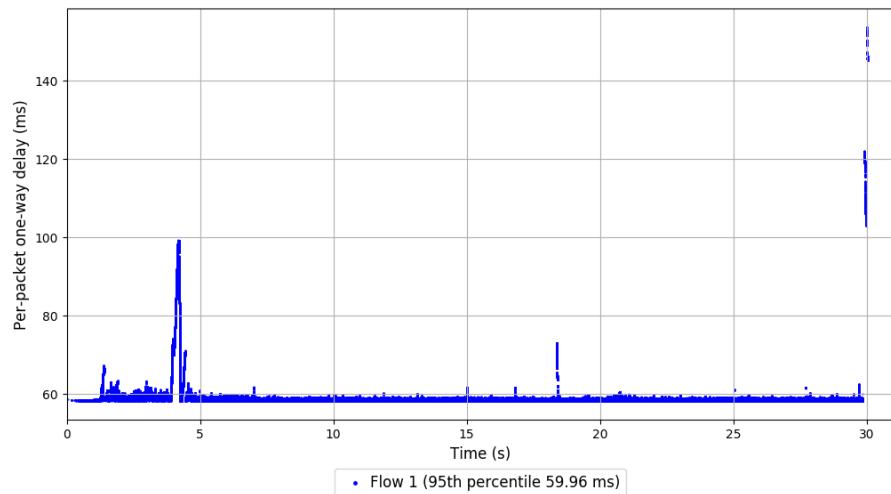
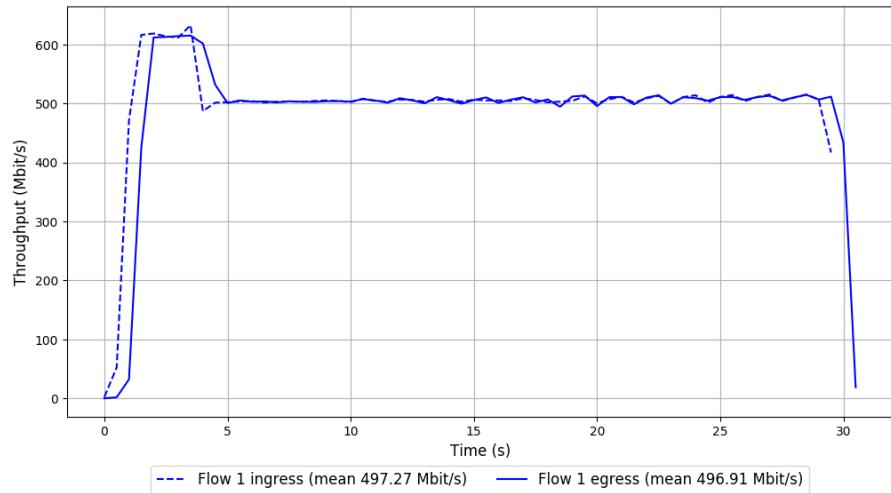


Run 4: Statistics of TCP Vegas

```
Start at: 2019-02-06 01:31:48
End at: 2019-02-06 01:32:18
Local clock offset: -0.027 ms
Remote clock offset: 0.683 ms

# Below is generated by plot.py at 2019-02-06 04:46:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 496.91 Mbit/s
95th percentile per-packet one-way delay: 59.962 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 496.91 Mbit/s
95th percentile per-packet one-way delay: 59.962 ms
Loss rate: 0.07%
```

Run 4: Report of TCP Vegas — Data Link

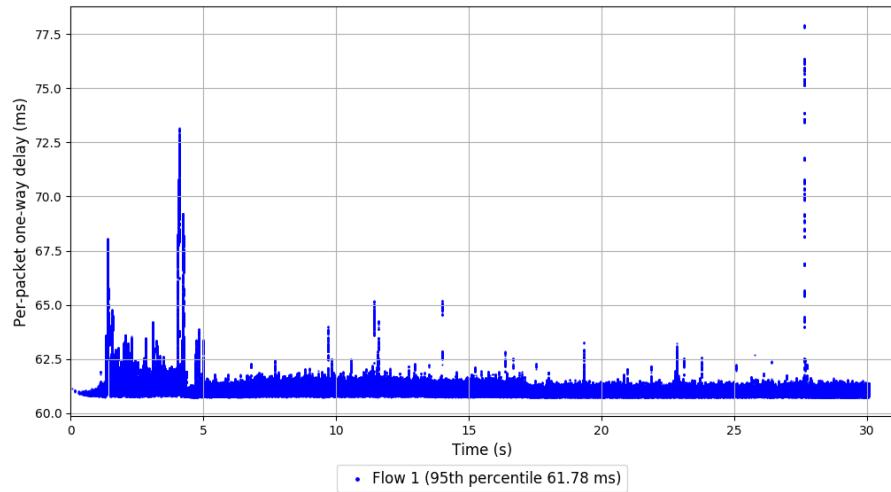
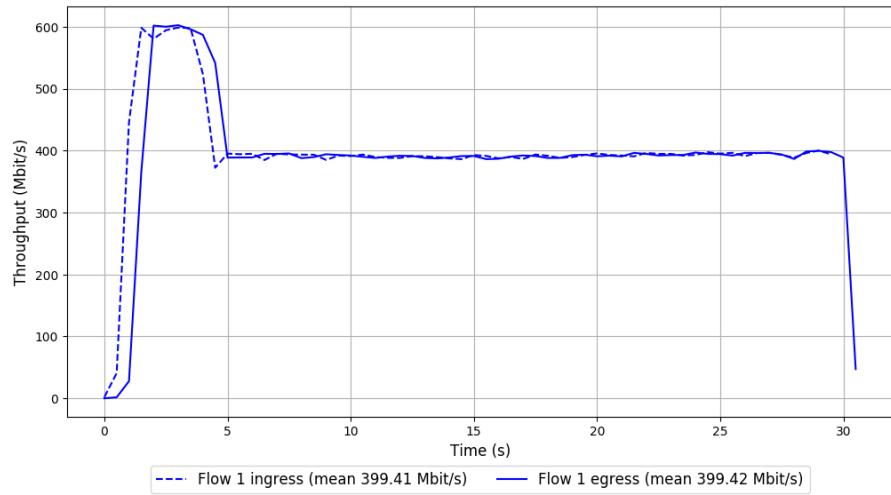


Run 5: Statistics of TCP Vegas

```
Start at: 2019-02-06 02:04:22
End at: 2019-02-06 02:04:52
Local clock offset: -0.488 ms
Remote clock offset: -0.246 ms

# Below is generated by plot.py at 2019-02-06 04:46:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 399.42 Mbit/s
95th percentile per-packet one-way delay: 61.781 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 399.42 Mbit/s
95th percentile per-packet one-way delay: 61.781 ms
Loss rate: 0.01%
```

Run 5: Report of TCP Vegas — Data Link

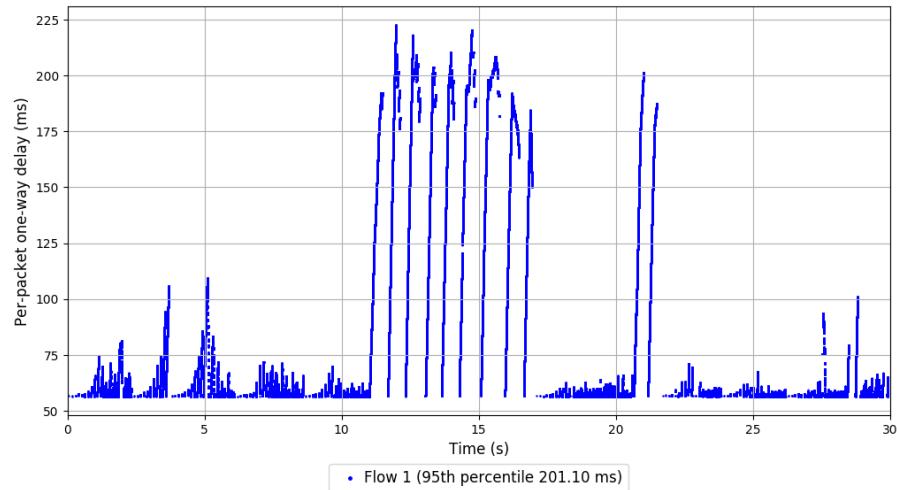
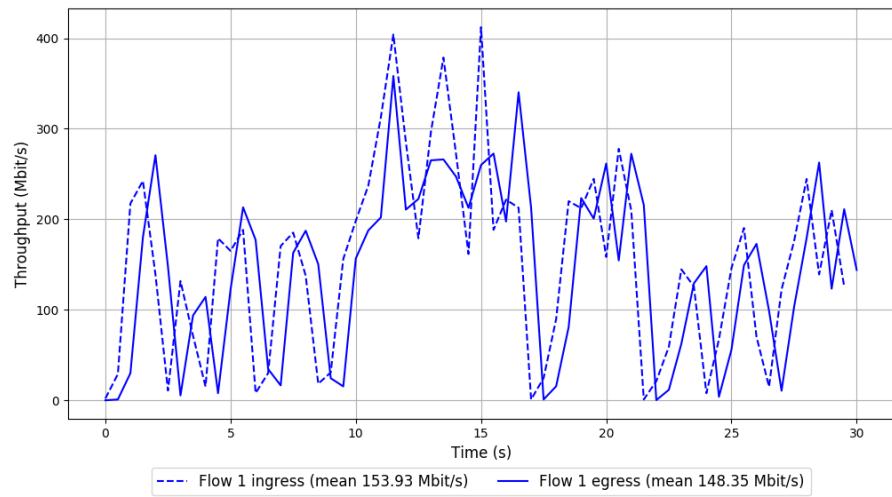


Run 1: Statistics of Verus

```
Start at: 2019-02-05 23:44:20
End at: 2019-02-05 23:44:50
Local clock offset: -0.018 ms
Remote clock offset: -0.505 ms

# Below is generated by plot.py at 2019-02-06 04:46:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 148.35 Mbit/s
95th percentile per-packet one-way delay: 201.099 ms
Loss rate: 3.62%
-- Flow 1:
Average throughput: 148.35 Mbit/s
95th percentile per-packet one-way delay: 201.099 ms
Loss rate: 3.62%
```

Run 1: Report of Verus — Data Link

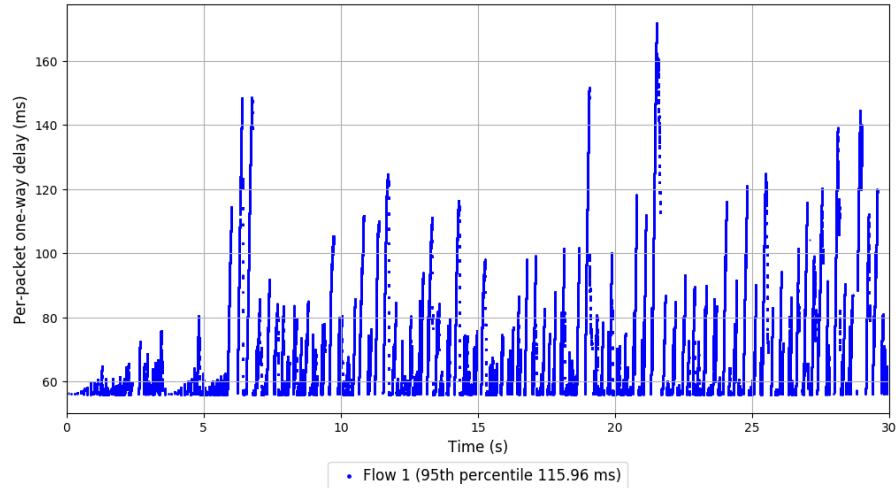
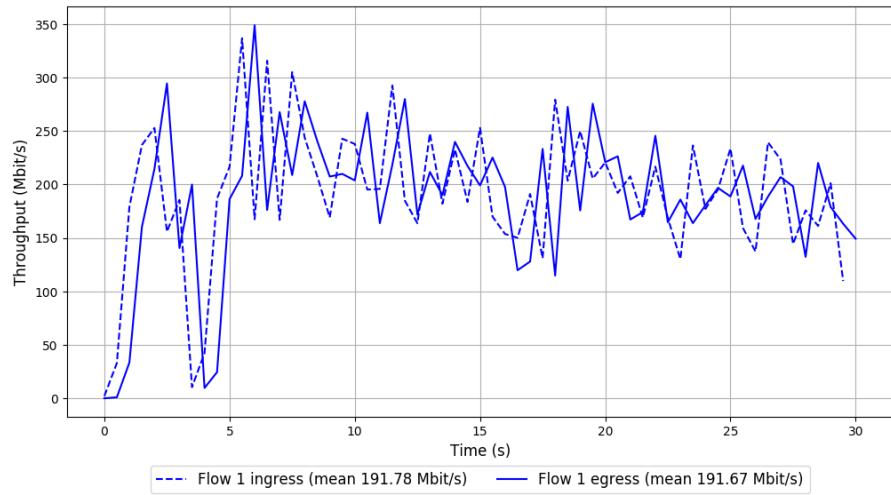


Run 2: Statistics of Verus

```
Start at: 2019-02-06 00:15:44
End at: 2019-02-06 00:16:14
Local clock offset: 0.072 ms
Remote clock offset: -0.861 ms

# Below is generated by plot.py at 2019-02-06 04:46:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 191.67 Mbit/s
95th percentile per-packet one-way delay: 115.962 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 191.67 Mbit/s
95th percentile per-packet one-way delay: 115.962 ms
Loss rate: 0.05%
```

Run 2: Report of Verus — Data Link

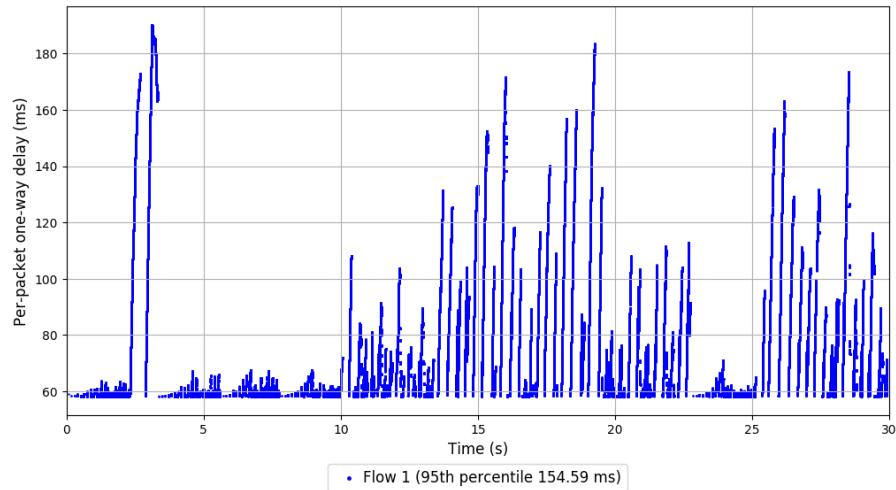
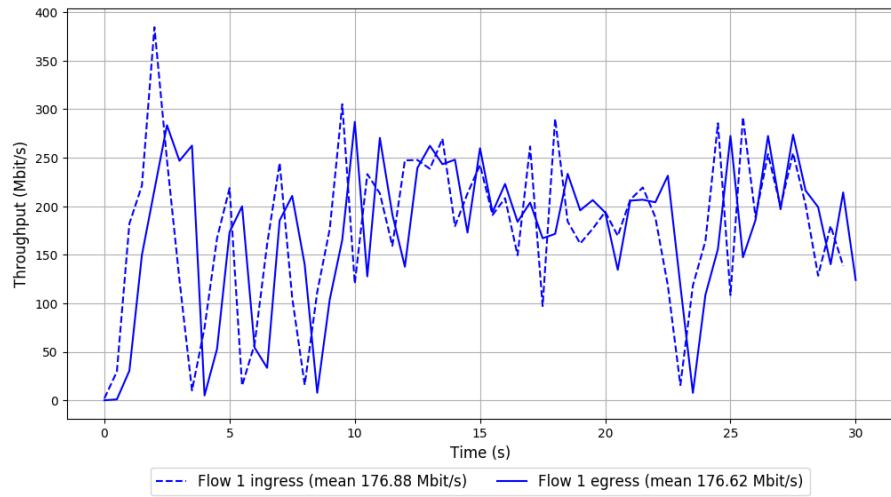


Run 3: Statistics of Verus

```
Start at: 2019-02-06 00:47:55
End at: 2019-02-06 00:48:25
Local clock offset: -0.486 ms
Remote clock offset: 0.543 ms

# Below is generated by plot.py at 2019-02-06 04:46:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 176.62 Mbit/s
95th percentile per-packet one-way delay: 154.590 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 176.62 Mbit/s
95th percentile per-packet one-way delay: 154.590 ms
Loss rate: 0.14%
```

Run 3: Report of Verus — Data Link

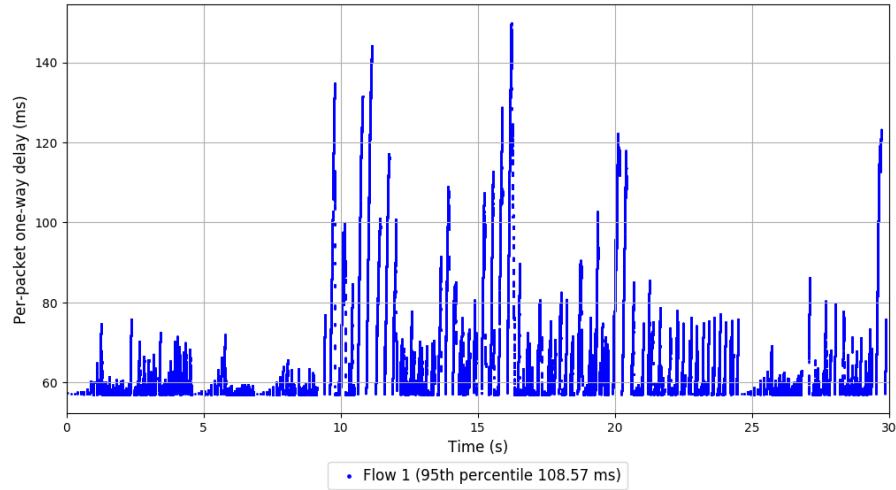
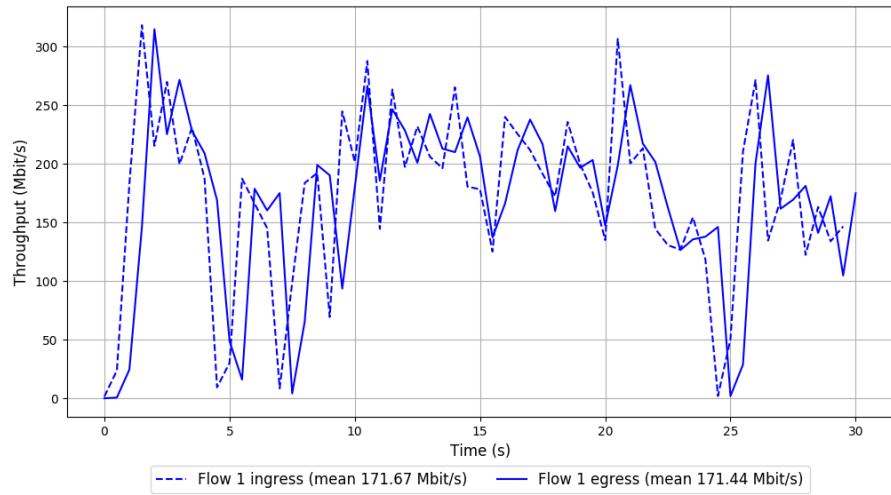


Run 4: Statistics of Verus

```
Start at: 2019-02-06 01:20:44
End at: 2019-02-06 01:21:14
Local clock offset: 0.076 ms
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2019-02-06 04:46:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 171.44 Mbit/s
95th percentile per-packet one-way delay: 108.569 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 171.44 Mbit/s
95th percentile per-packet one-way delay: 108.569 ms
Loss rate: 0.12%
```

Run 4: Report of Verus — Data Link

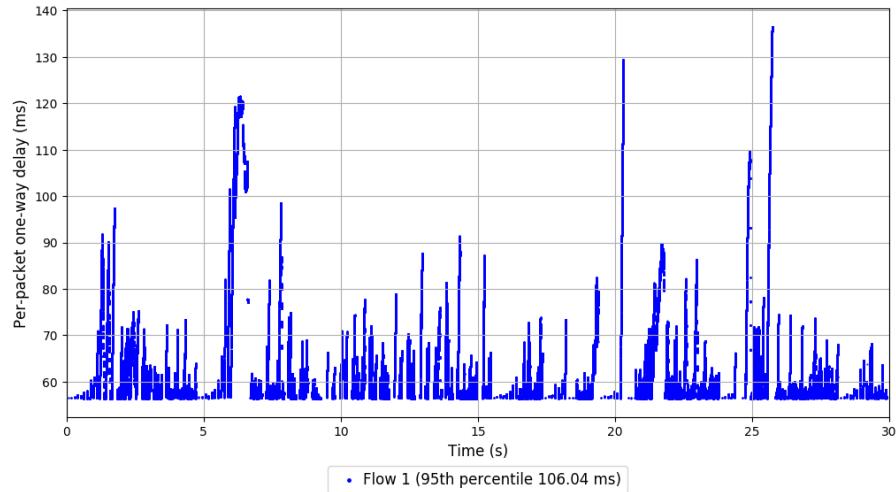
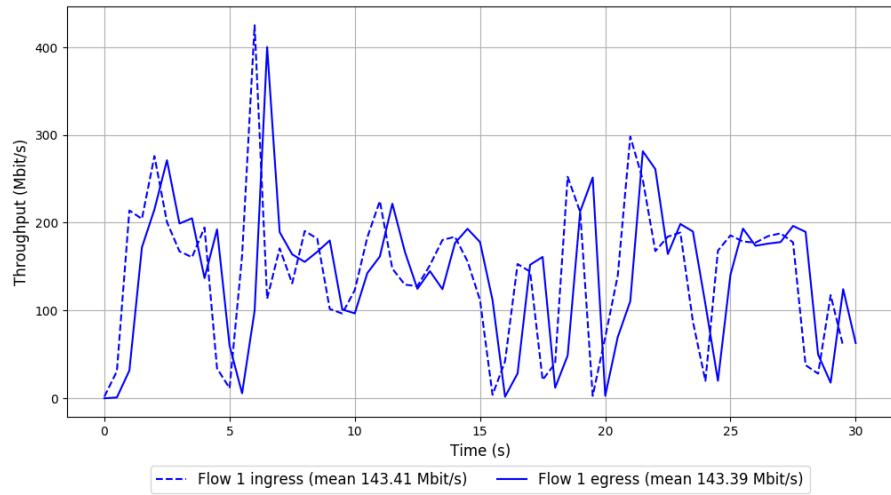


Run 5: Statistics of Verus

```
Start at: 2019-02-06 01:53:29
End at: 2019-02-06 01:53:59
Local clock offset: 0.374 ms
Remote clock offset: -0.415 ms

# Below is generated by plot.py at 2019-02-06 04:46:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 143.39 Mbit/s
95th percentile per-packet one-way delay: 106.042 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 143.39 Mbit/s
95th percentile per-packet one-way delay: 106.042 ms
Loss rate: 0.02%
```

Run 5: Report of Verus — Data Link

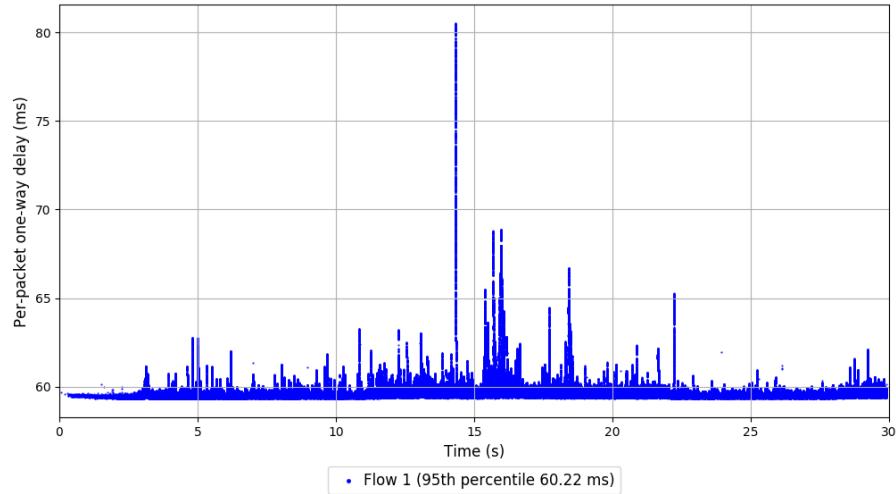
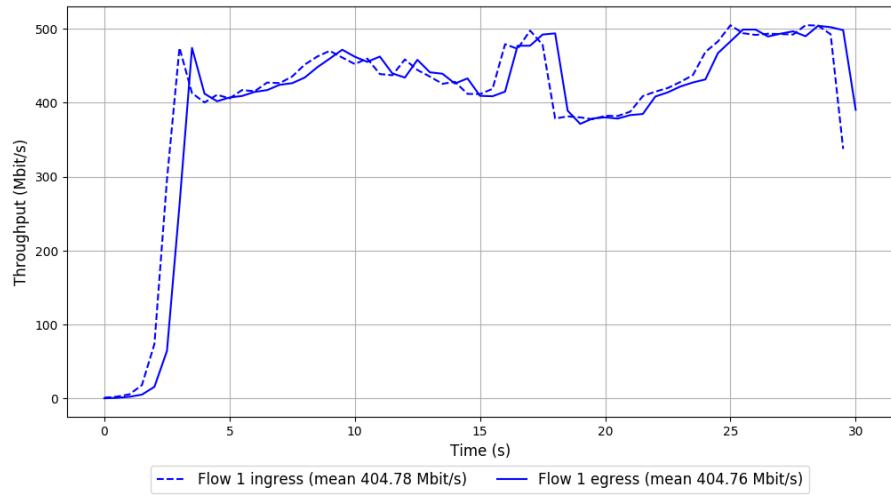


Run 1: Statistics of PCC-Vivace

```
Start at: 2019-02-05 23:34:00
End at: 2019-02-05 23:34:30
Local clock offset: -0.498 ms
Remote clock offset: -1.397 ms

# Below is generated by plot.py at 2019-02-06 04:49:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 404.76 Mbit/s
95th percentile per-packet one-way delay: 60.220 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 404.76 Mbit/s
95th percentile per-packet one-way delay: 60.220 ms
Loss rate: 0.01%
```

Run 1: Report of PCC-Vivace — Data Link

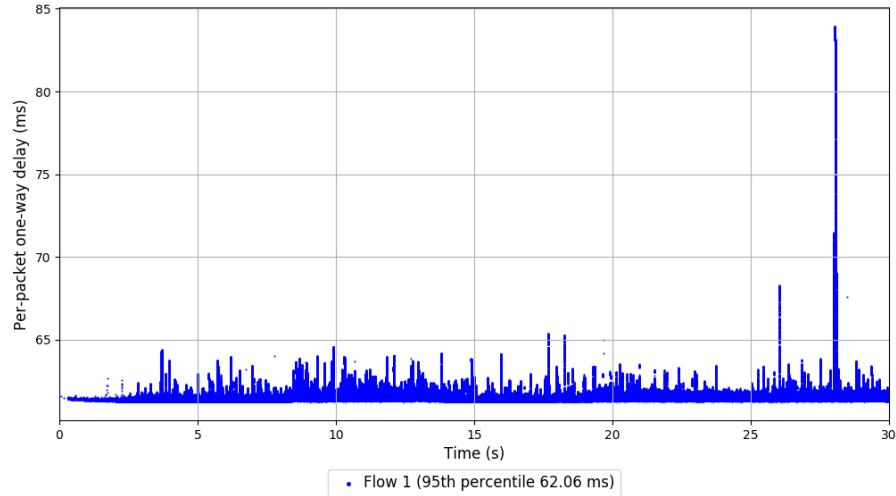
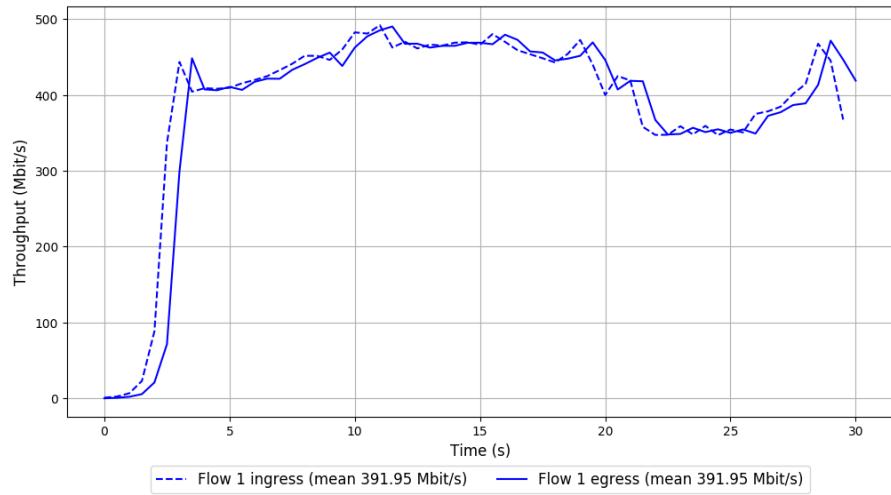


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-02-06 00:04:59
End at: 2019-02-06 00:05:29
Local clock offset: 0.09 ms
Remote clock offset: 1.36 ms

# Below is generated by plot.py at 2019-02-06 04:49:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 391.95 Mbit/s
95th percentile per-packet one-way delay: 62.057 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 391.95 Mbit/s
95th percentile per-packet one-way delay: 62.057 ms
Loss rate: 0.01%
```

Run 2: Report of PCC-Vivace — Data Link

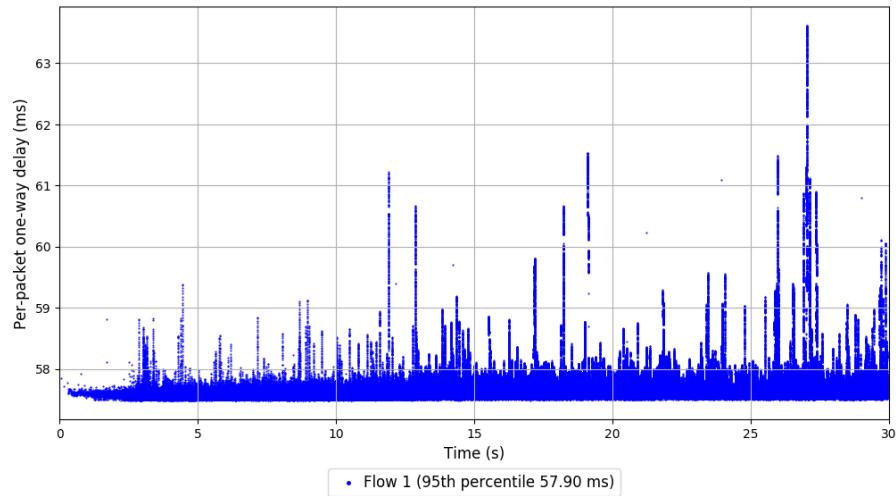
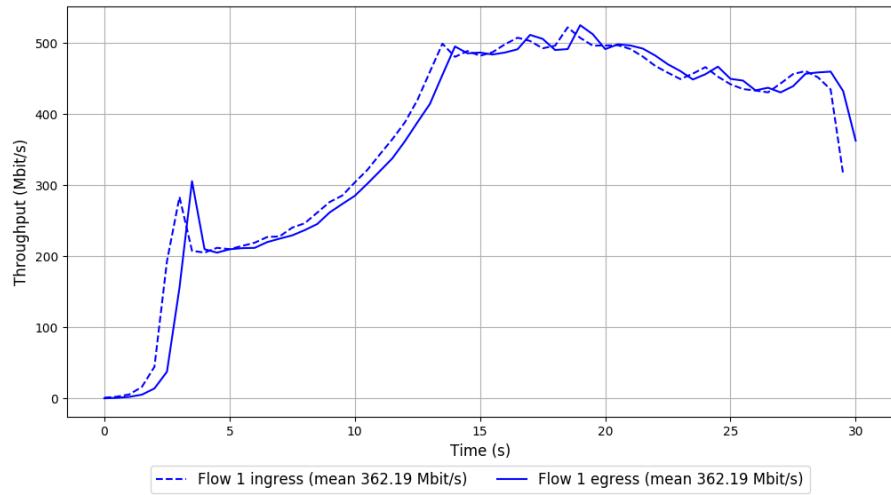


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-02-06 00:37:10
End at: 2019-02-06 00:37:40
Local clock offset: -0.059 ms
Remote clock offset: 0.418 ms

# Below is generated by plot.py at 2019-02-06 04:49:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 362.19 Mbit/s
95th percentile per-packet one-way delay: 57.902 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 362.19 Mbit/s
95th percentile per-packet one-way delay: 57.902 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Vivace — Data Link

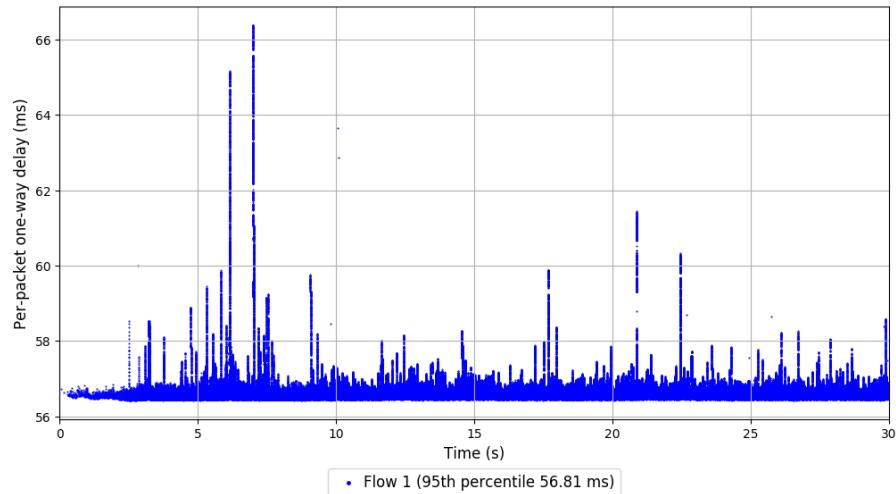
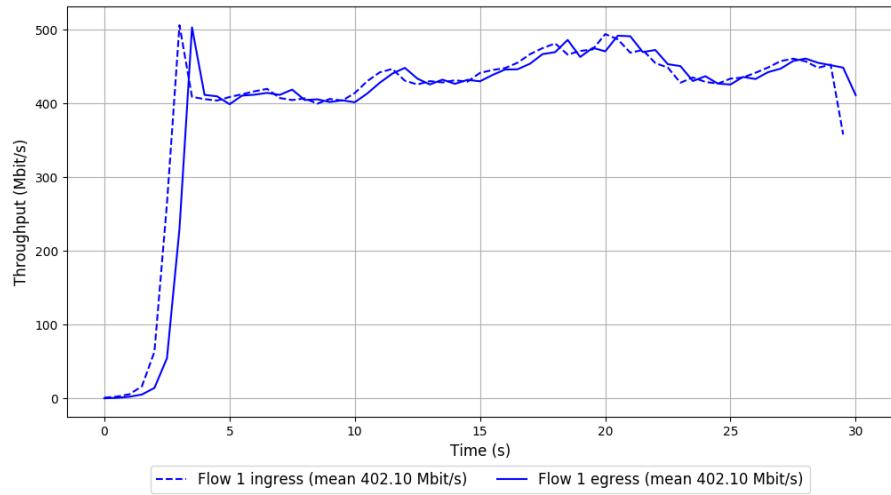


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-02-06 01:09:36
End at: 2019-02-06 01:10:06
Local clock offset: 0.22 ms
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2019-02-06 04:50:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 402.10 Mbit/s
95th percentile per-packet one-way delay: 56.806 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 402.10 Mbit/s
95th percentile per-packet one-way delay: 56.806 ms
Loss rate: 0.00%
```

Run 4: Report of PCC-Vivace — Data Link

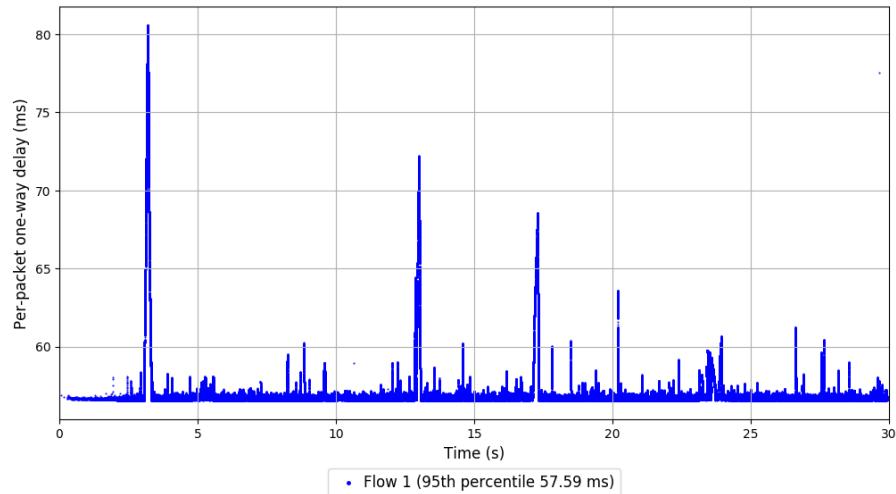
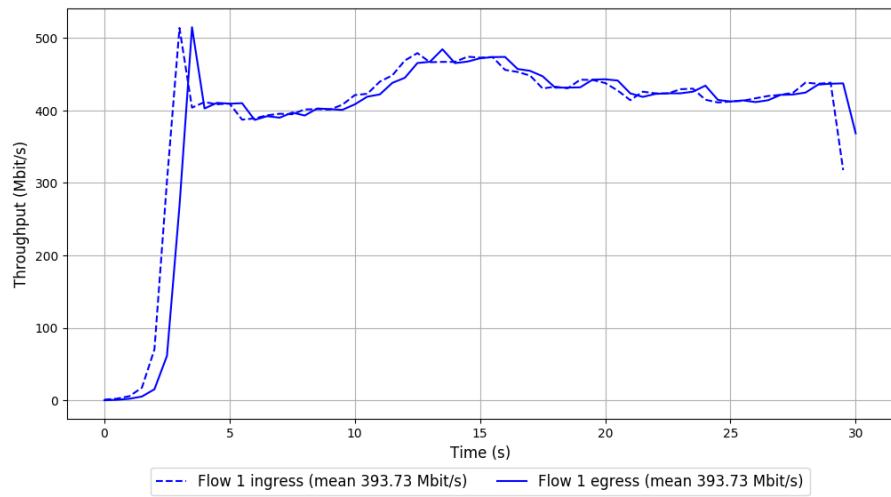


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-02-06 01:42:46
End at: 2019-02-06 01:43:16
Local clock offset: 0.114 ms
Remote clock offset: -0.246 ms

# Below is generated by plot.py at 2019-02-06 04:50:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 393.73 Mbit/s
95th percentile per-packet one-way delay: 57.594 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 393.73 Mbit/s
95th percentile per-packet one-way delay: 57.594 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Vivace — Data Link

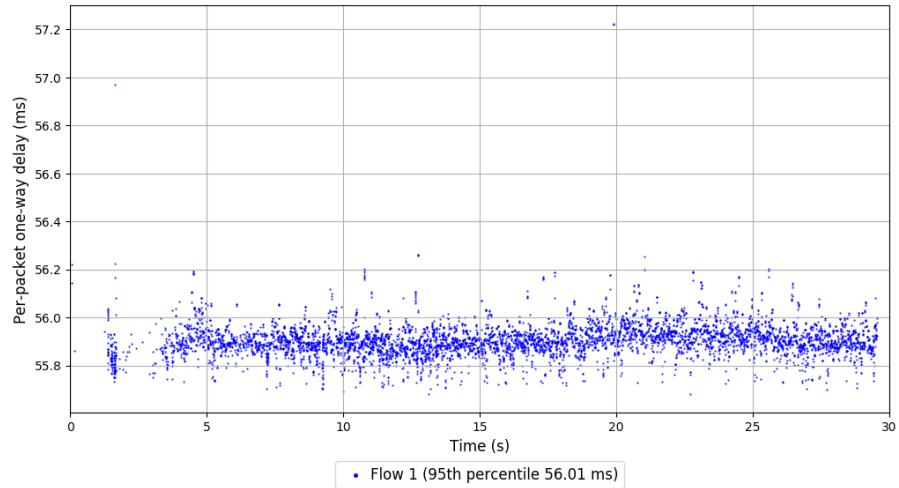
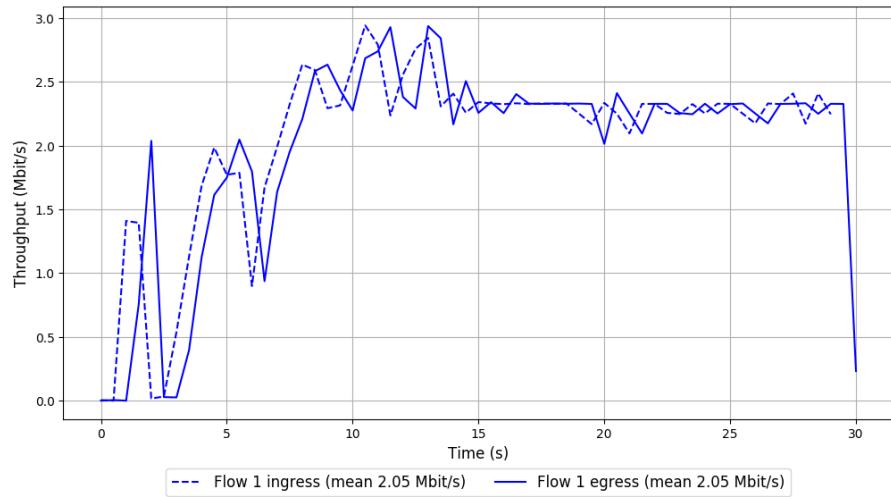


Run 1: Statistics of WebRTC media

```
Start at: 2019-02-05 23:57:56
End at: 2019-02-05 23:58:26
Local clock offset: -0.347 ms
Remote clock offset: -1.368 ms

# Below is generated by plot.py at 2019-02-06 04:50:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 56.013 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 56.013 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

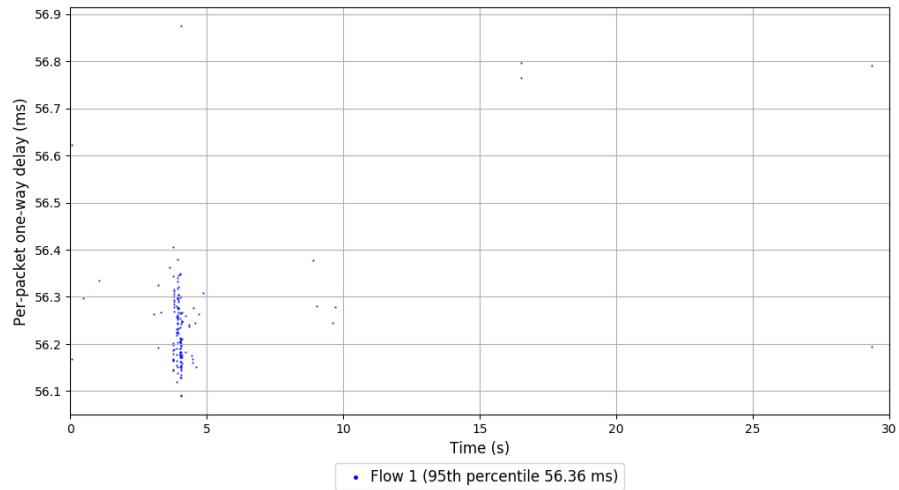
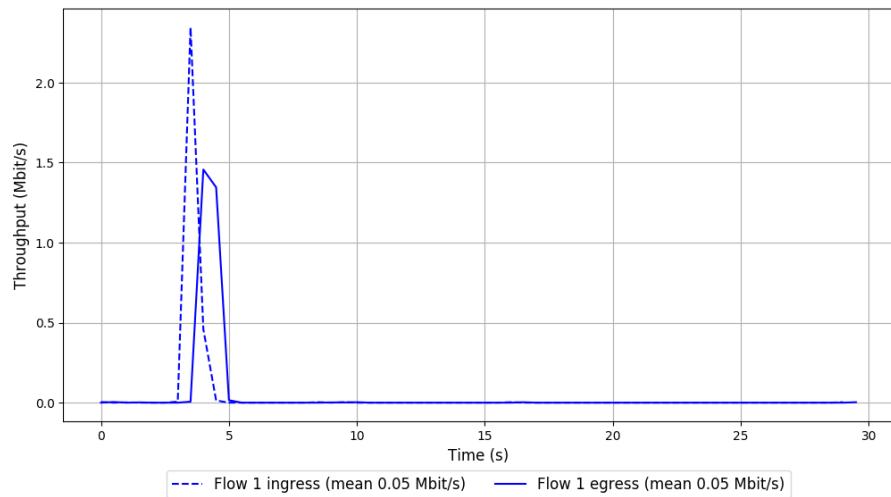


Run 2: Statistics of WebRTC media

```
Start at: 2019-02-06 00:30:01
End at: 2019-02-06 00:30:31
Local clock offset: -0.098 ms
Remote clock offset: -0.794 ms

# Below is generated by plot.py at 2019-02-06 04:50:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 56.363 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 56.363 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

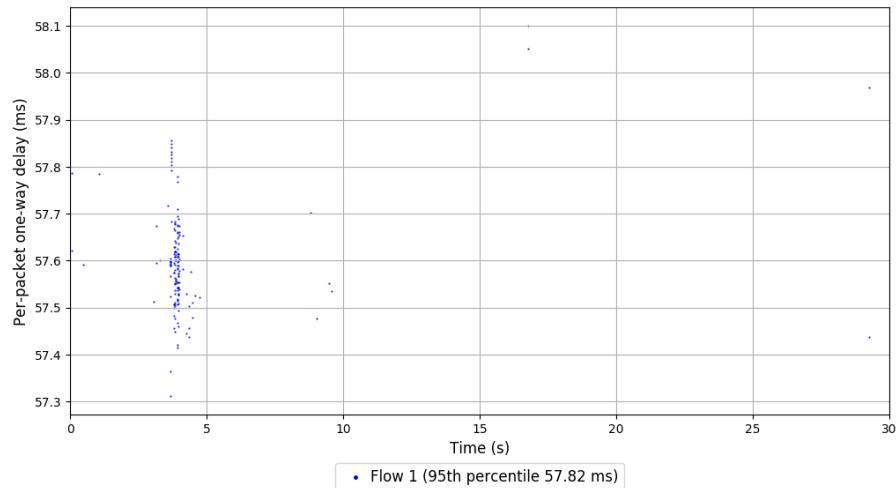
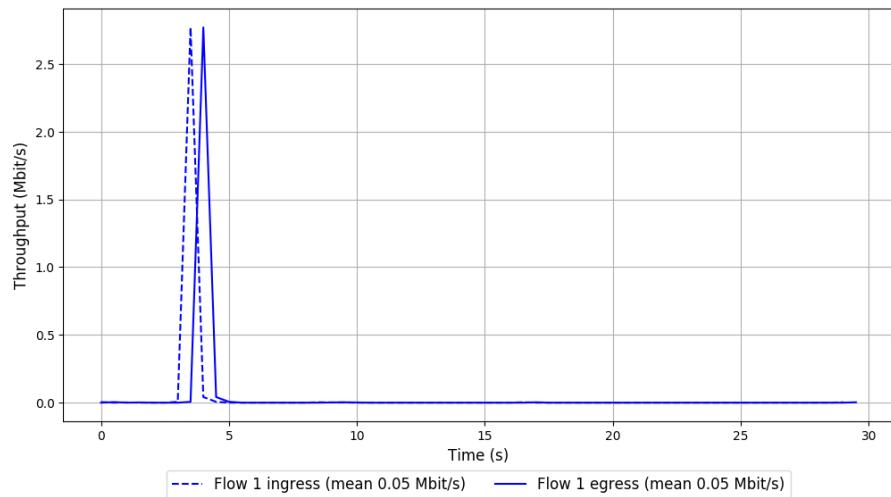


Run 3: Statistics of WebRTC media

```
Start at: 2019-02-06 01:02:27
End at: 2019-02-06 01:02:57
Local clock offset: -0.028 ms
Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2019-02-06 04:50:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 57.818 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 57.818 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

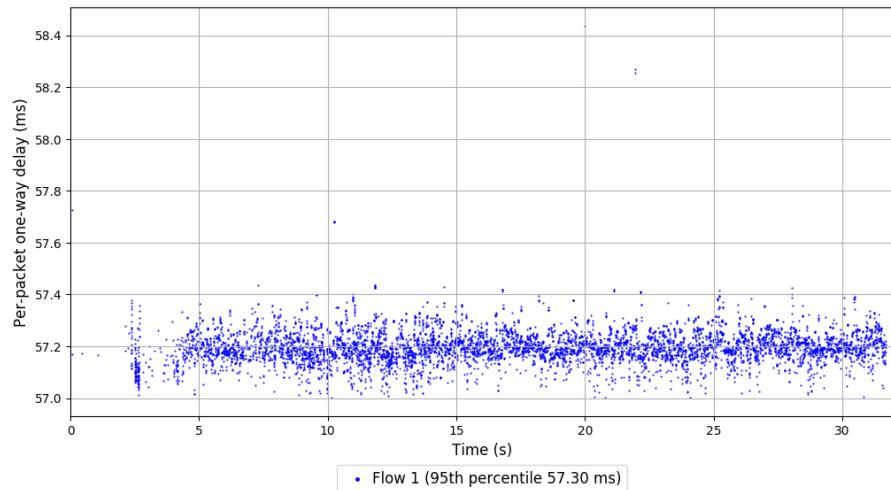
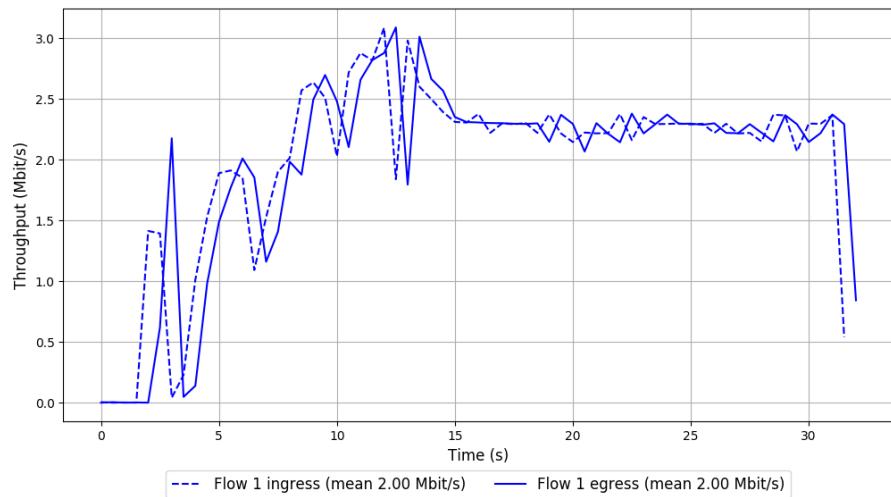


Run 4: Statistics of WebRTC media

```
Start at: 2019-02-06 01:34:55
End at: 2019-02-06 01:35:25
Local clock offset: -0.056 ms
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2019-02-06 04:50:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 57.299 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 57.299 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-02-06 02:07:18
End at: 2019-02-06 02:07:48
Local clock offset: 0.065 ms
Remote clock offset: -1.41 ms

# Below is generated by plot.py at 2019-02-06 04:50:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 55.762 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 55.762 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

