

Pantheon Report

Generated at 2019-01-22 08:54:02 (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:

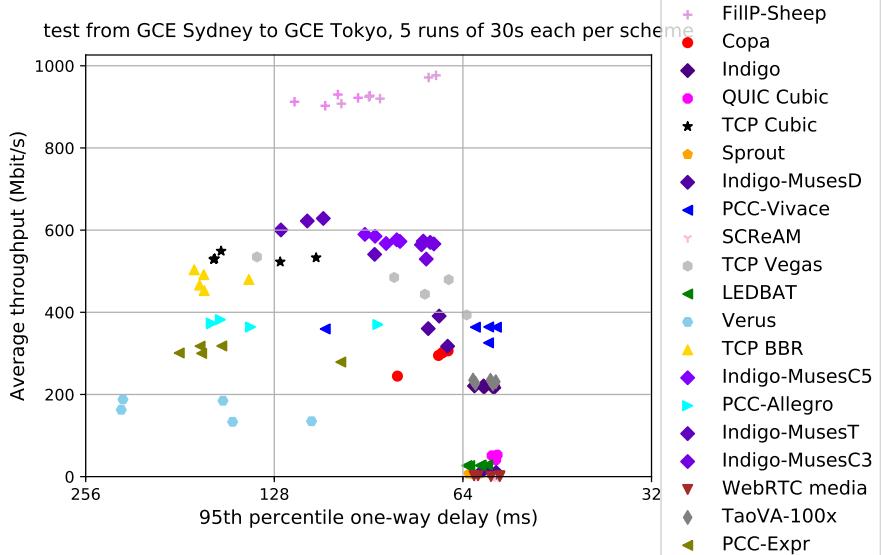
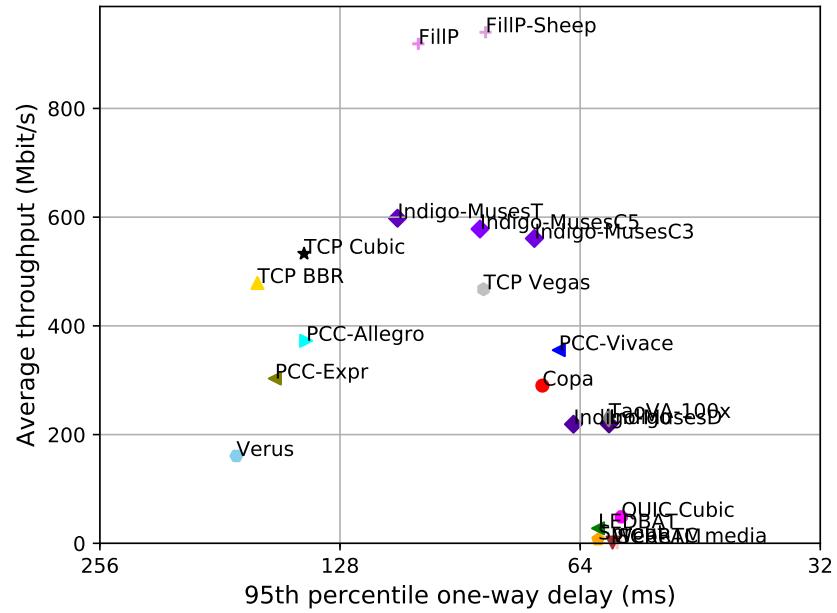
```
Linux 4.15.0-1026-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ 89d24e57783e7fbfec537a619071de937b639e38
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 1ddcff131048c6962f123bcd22b4d166a422adde
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)



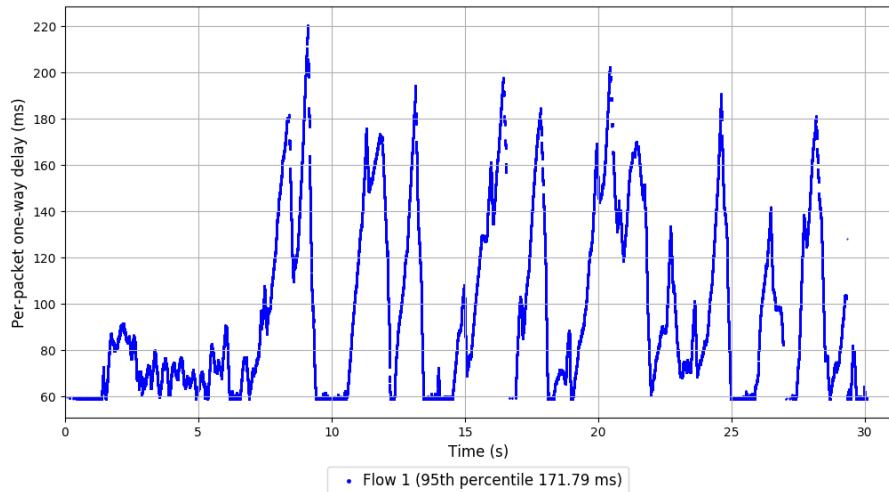
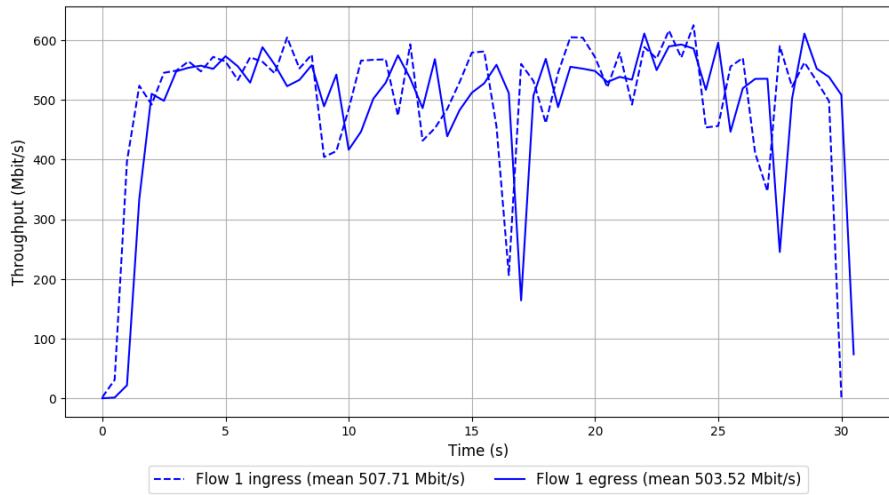
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	478.90	162.46	0.84
Copa	5	290.10	71.37	0.01
TCP Cubic	5	532.75	141.99	0.19
FillP	5	918.82	102.10	0.63
FillP-Sheep	5	940.11	84.09	0.13
Indigo	5	219.51	58.88	0.00
Indigo-MusesC3	5	560.74	73.04	0.00
Indigo-MusesC5	5	578.21	85.45	0.02
Indigo-MusesD	5	219.06	65.25	0.00
Indigo-MusesT	4	598.02	108.44	0.06
LEDBAT	5	27.53	60.77	0.00
PCC-Allegro	5	372.50	141.15	0.28
PCC-Expr	5	303.10	154.48	2.76
QUIC Cubic	4	48.73	56.84	0.00
SCReAM	5	0.22	57.53	0.00
Sprout	5	7.12	60.77	0.00
TaoVA-100x	5	230.72	58.93	0.00
TCP Vegas	5	467.33	84.59	0.02
Verus	5	160.71	172.65	4.37
PCC-Vivace	5	355.37	68.07	0.04
WebRTC media	5	1.31	58.29	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-01-22 03:57:47
End at: 2019-01-22 03:58:17
Local clock offset: -0.015 ms
Remote clock offset: -1.337 ms

# Below is generated by plot.py at 2019-01-22 06:45:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 503.52 Mbit/s
95th percentile per-packet one-way delay: 171.789 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 503.52 Mbit/s
95th percentile per-packet one-way delay: 171.789 ms
Loss rate: 0.83%
```

Run 1: Report of TCP BBR — Data Link

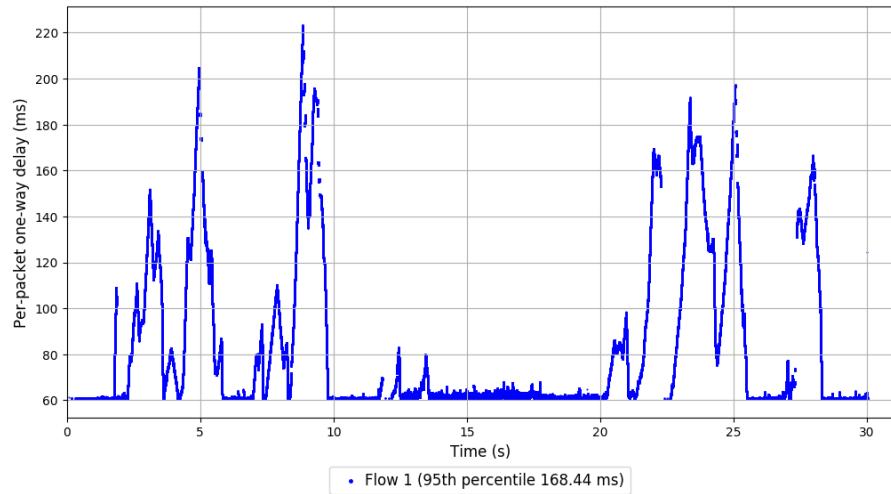
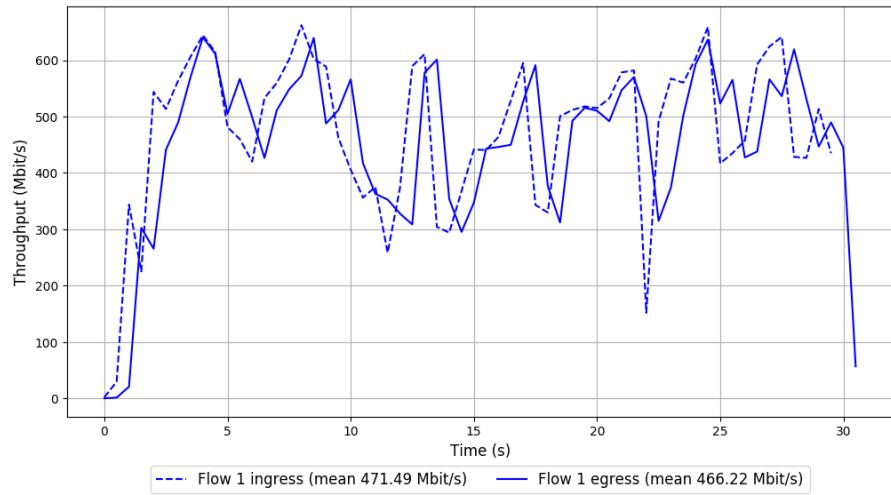


Run 2: Statistics of TCP BBR

```
Start at: 2019-01-22 04:31:48
End at: 2019-01-22 04:32:18
Local clock offset: -0.179 ms
Remote clock offset: -0.204 ms

# Below is generated by plot.py at 2019-01-22 06:45:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 466.22 Mbit/s
95th percentile per-packet one-way delay: 168.444 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 466.22 Mbit/s
95th percentile per-packet one-way delay: 168.444 ms
Loss rate: 1.12%
```

Run 2: Report of TCP BBR — Data Link

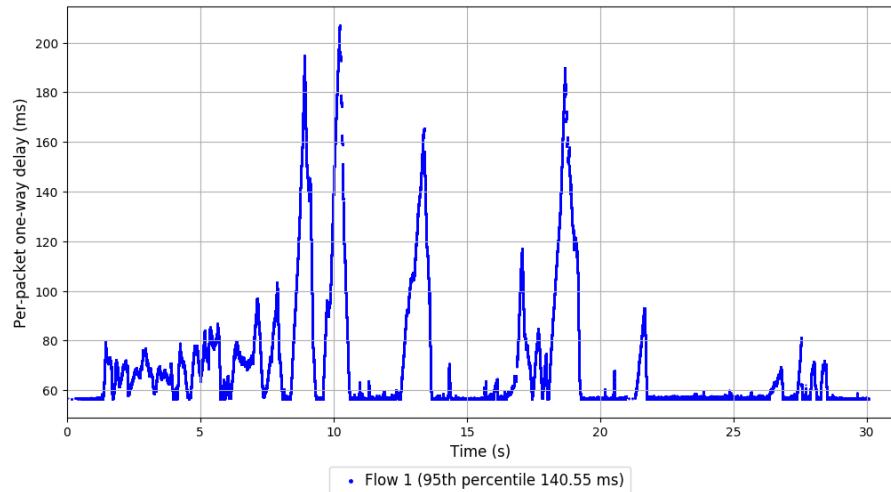
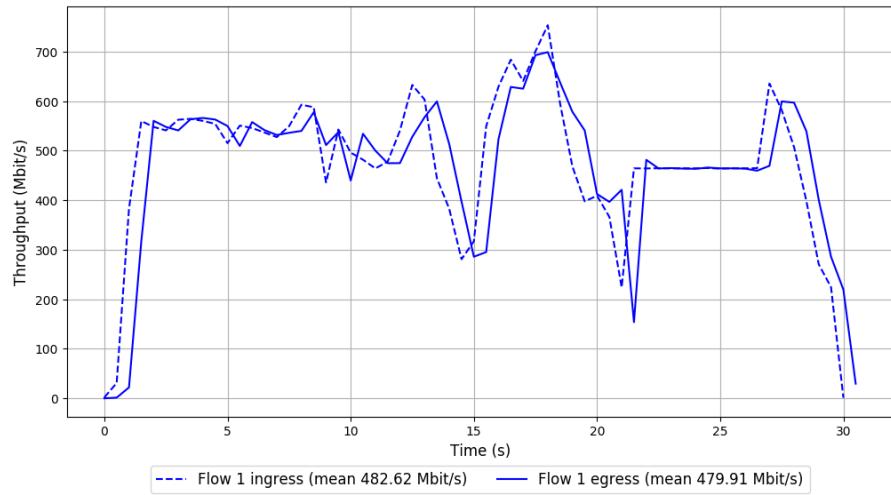


Run 3: Statistics of TCP BBR

```
Start at: 2019-01-22 05:05:48
End at: 2019-01-22 05:06:18
Local clock offset: 0.37 ms
Remote clock offset: -0.471 ms

# Below is generated by plot.py at 2019-01-22 06:45:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 479.91 Mbit/s
95th percentile per-packet one-way delay: 140.548 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 479.91 Mbit/s
95th percentile per-packet one-way delay: 140.548 ms
Loss rate: 0.56%
```

Run 3: Report of TCP BBR — Data Link

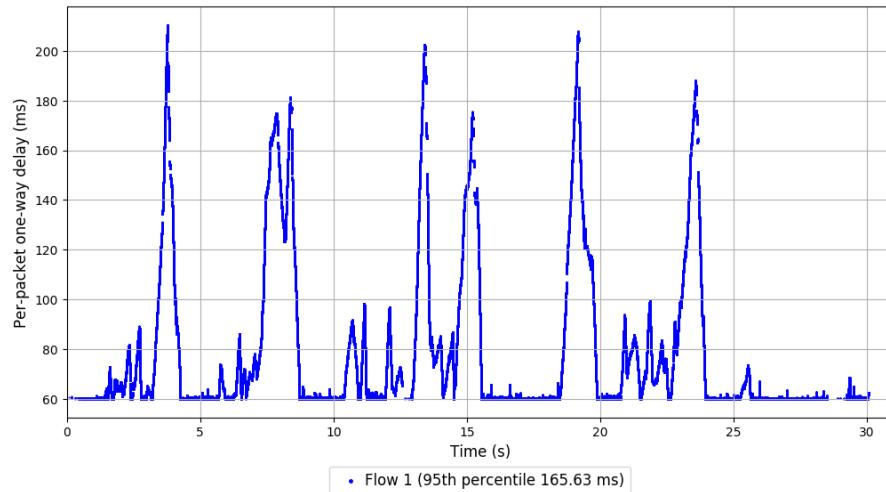
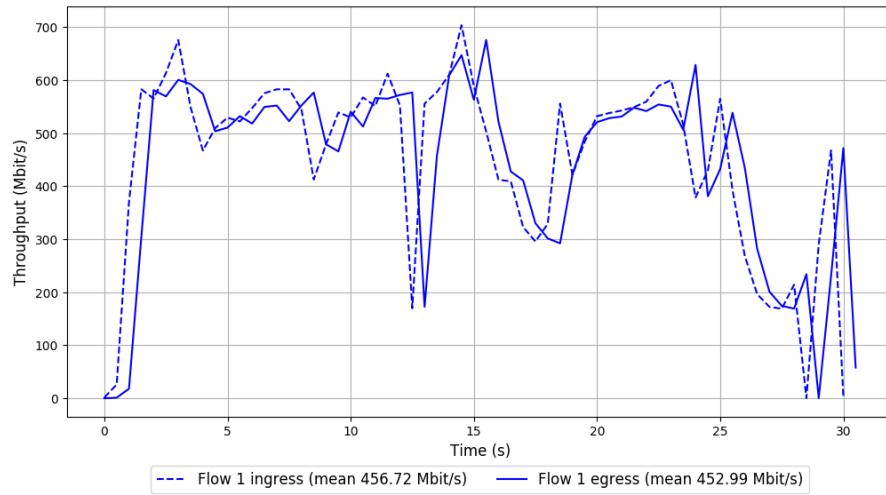


Run 4: Statistics of TCP BBR

```
Start at: 2019-01-22 05:39:45
End at: 2019-01-22 05:40:15
Local clock offset: 0.29 ms
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2019-01-22 06:45:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 452.99 Mbit/s
95th percentile per-packet one-way delay: 165.629 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 452.99 Mbit/s
95th percentile per-packet one-way delay: 165.629 ms
Loss rate: 0.81%
```

Run 4: Report of TCP BBR — Data Link

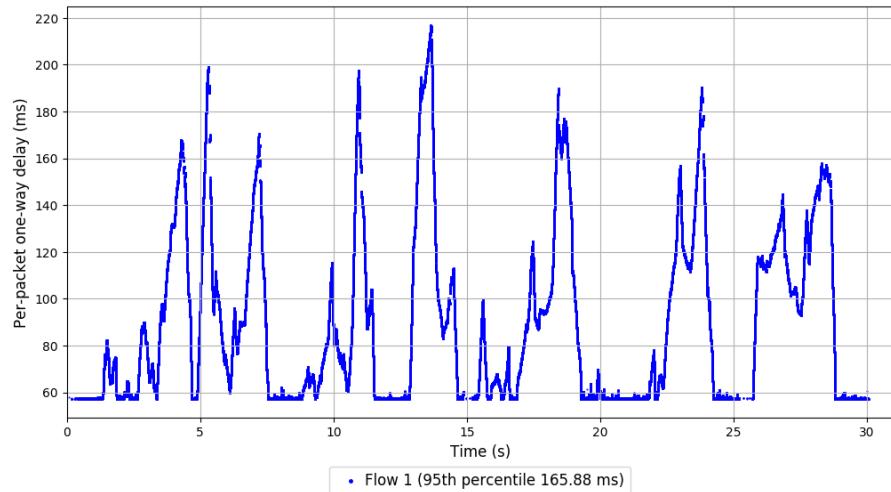
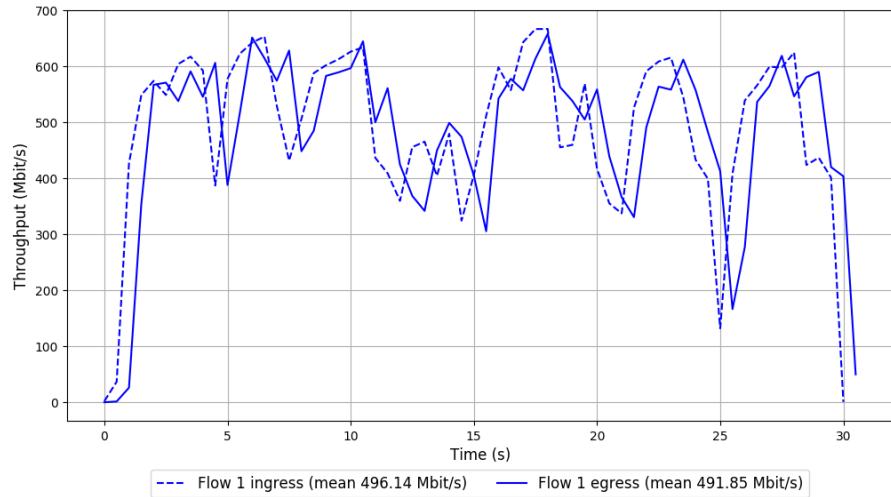


Run 5: Statistics of TCP BBR

```
Start at: 2019-01-22 06:13:15
End at: 2019-01-22 06:13:45
Local clock offset: 0.536 ms
Remote clock offset: 0.772 ms

# Below is generated by plot.py at 2019-01-22 06:45:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 491.85 Mbit/s
95th percentile per-packet one-way delay: 165.877 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 491.85 Mbit/s
95th percentile per-packet one-way delay: 165.877 ms
Loss rate: 0.87%
```

Run 5: Report of TCP BBR — Data Link

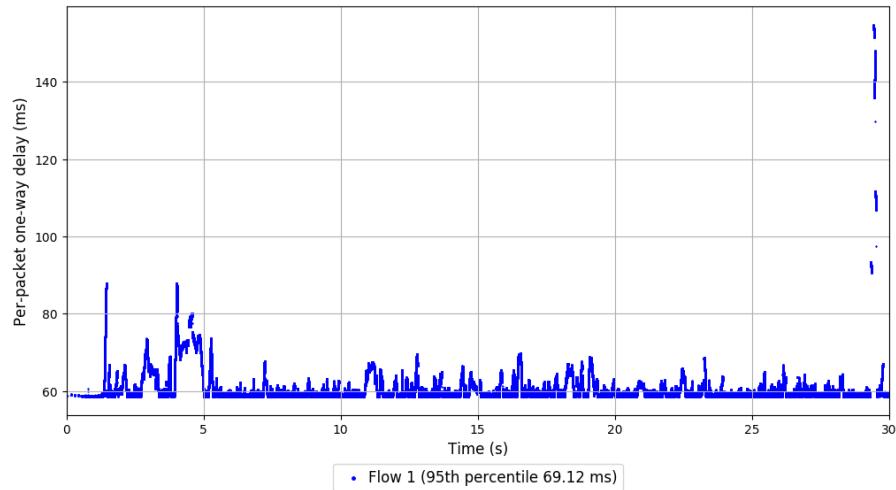
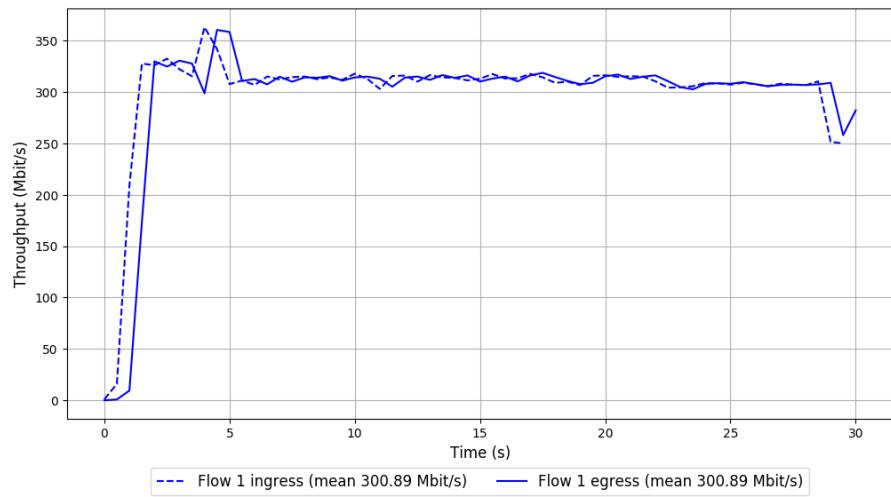


Run 1: Statistics of Copa

```
Start at: 2019-01-22 03:42:53
End at: 2019-01-22 03:43:23
Local clock offset: -0.022 ms
Remote clock offset: 1.469 ms

# Below is generated by plot.py at 2019-01-22 06:46:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 300.89 Mbit/s
95th percentile per-packet one-way delay: 69.124 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 300.89 Mbit/s
95th percentile per-packet one-way delay: 69.124 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link

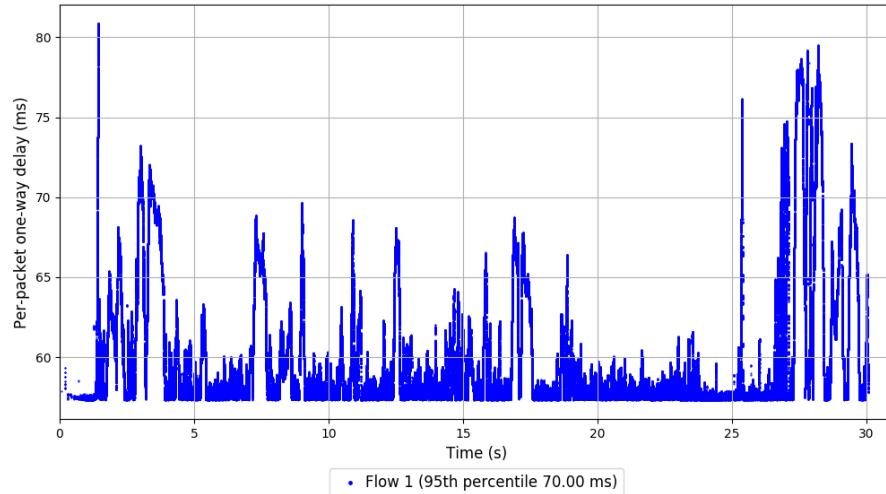
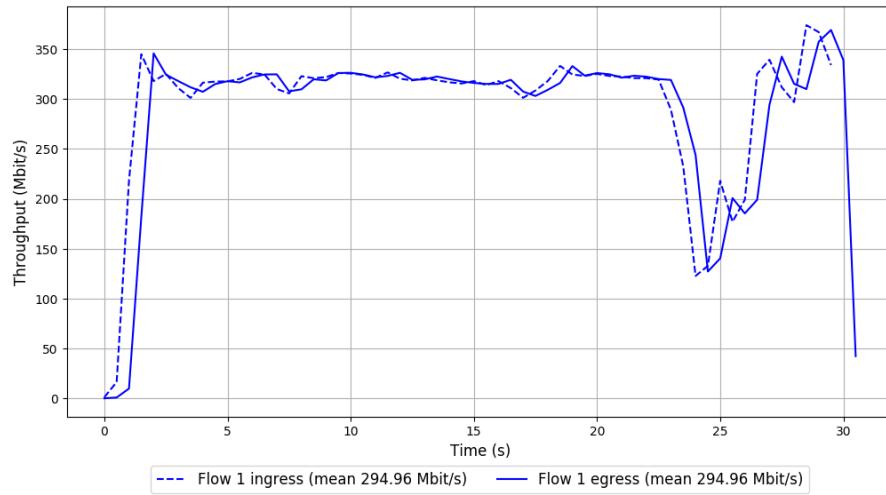


Run 2: Statistics of Copa

```
Start at: 2019-01-22 04:15:47
End at: 2019-01-22 04:16:17
Local clock offset: -0.31 ms
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2019-01-22 06:46:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 294.96 Mbit/s
95th percentile per-packet one-way delay: 70.002 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 294.96 Mbit/s
95th percentile per-packet one-way delay: 70.002 ms
Loss rate: 0.00%
```

Run 2: Report of Copa — Data Link

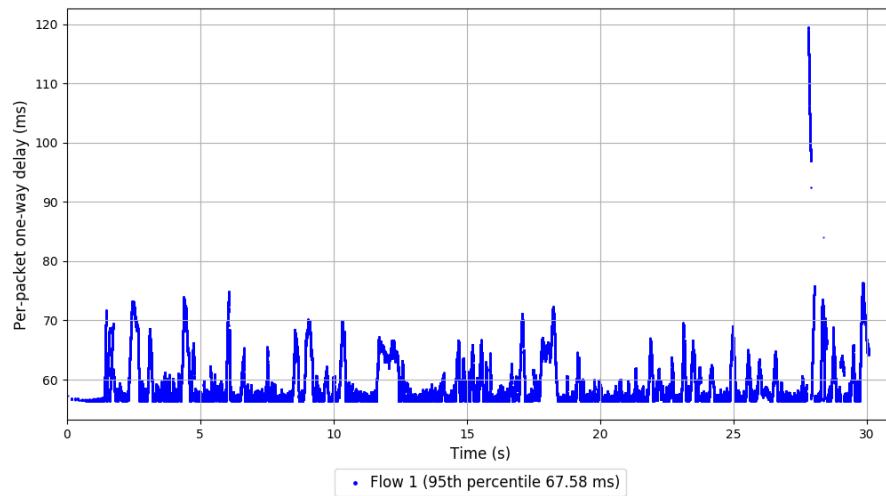
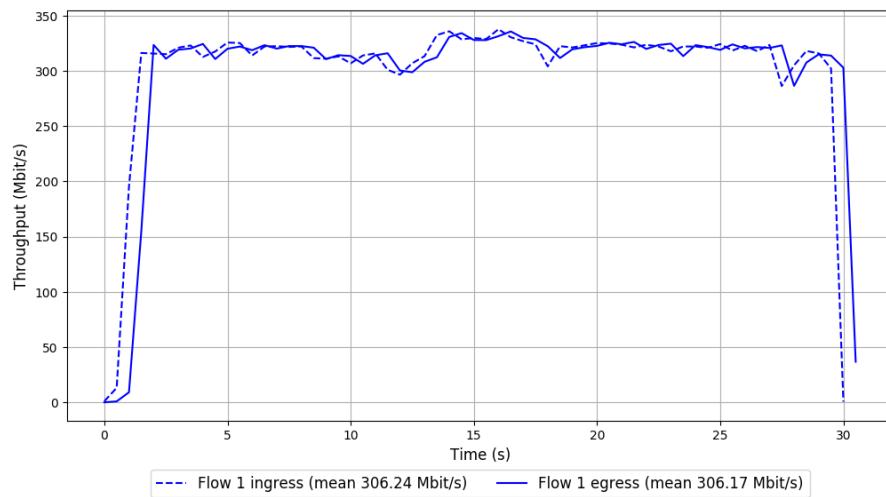


Run 3: Statistics of Copa

```
Start at: 2019-01-22 04:50:59
End at: 2019-01-22 04:51:29
Local clock offset: 0.055 ms
Remote clock offset: -0.653 ms

# Below is generated by plot.py at 2019-01-22 06:46:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 306.17 Mbit/s
95th percentile per-packet one-way delay: 67.584 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 306.17 Mbit/s
95th percentile per-packet one-way delay: 67.584 ms
Loss rate: 0.01%
```

Run 3: Report of Copa — Data Link

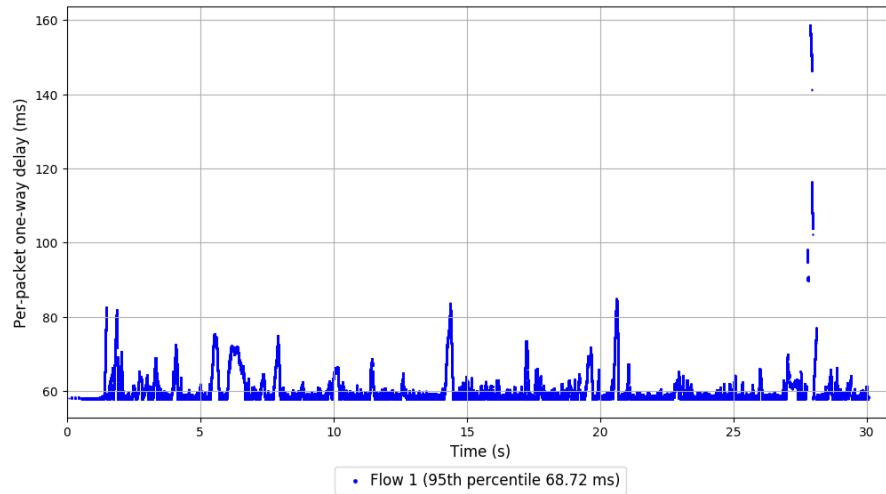
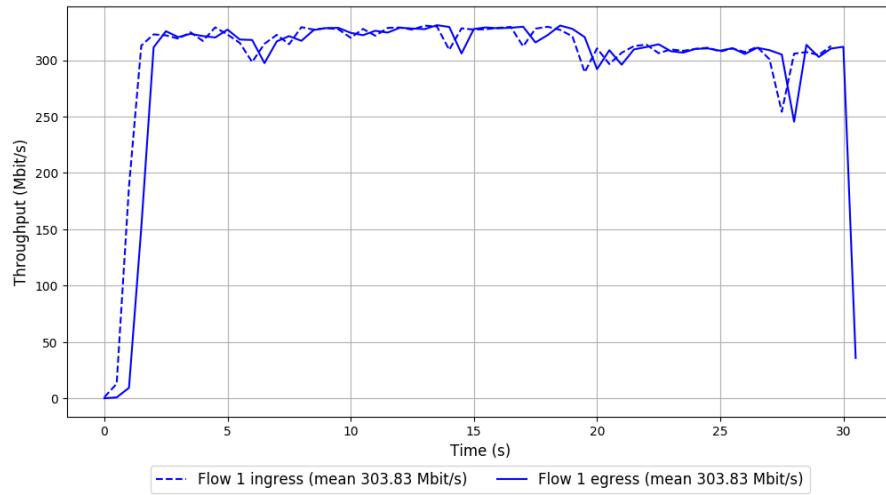


Run 4: Statistics of Copa

```
Start at: 2019-01-22 05:24:07
End at: 2019-01-22 05:24:37
Local clock offset: 0.352 ms
Remote clock offset: 1.291 ms

# Below is generated by plot.py at 2019-01-22 06:57:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 303.83 Mbit/s
95th percentile per-packet one-way delay: 68.720 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 303.83 Mbit/s
95th percentile per-packet one-way delay: 68.720 ms
Loss rate: 0.00%
```

Run 4: Report of Copa — Data Link

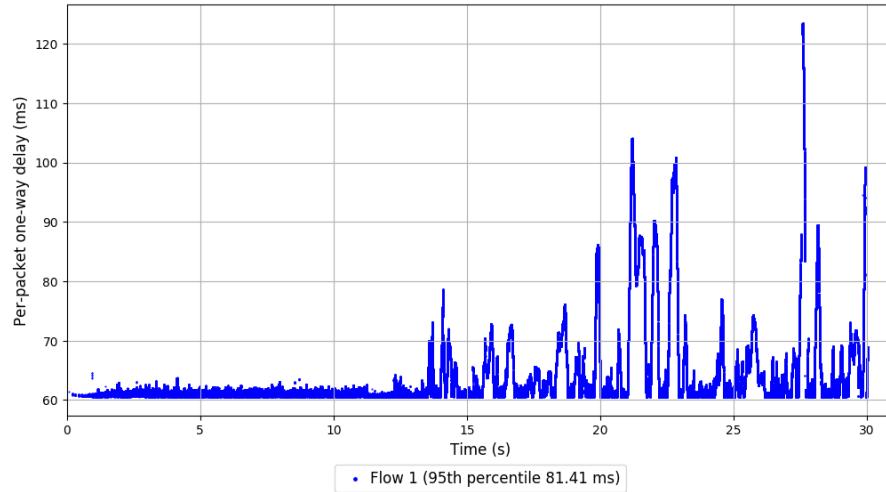
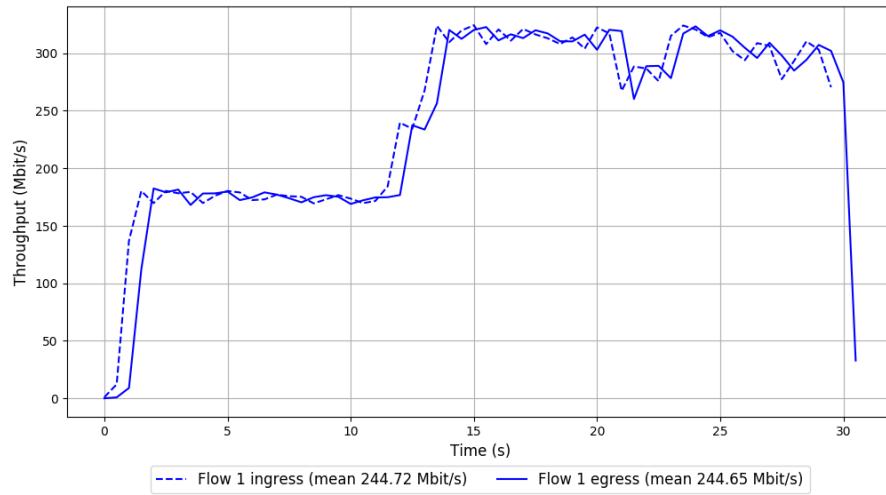


Run 5: Statistics of Copa

```
Start at: 2019-01-22 05:58:50
End at: 2019-01-22 05:59:20
Local clock offset: 0.368 ms
Remote clock offset: 0.739 ms

# Below is generated by plot.py at 2019-01-22 06:57:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 244.65 Mbit/s
95th percentile per-packet one-way delay: 81.414 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 244.65 Mbit/s
95th percentile per-packet one-way delay: 81.414 ms
Loss rate: 0.03%
```

Run 5: Report of Copa — Data Link

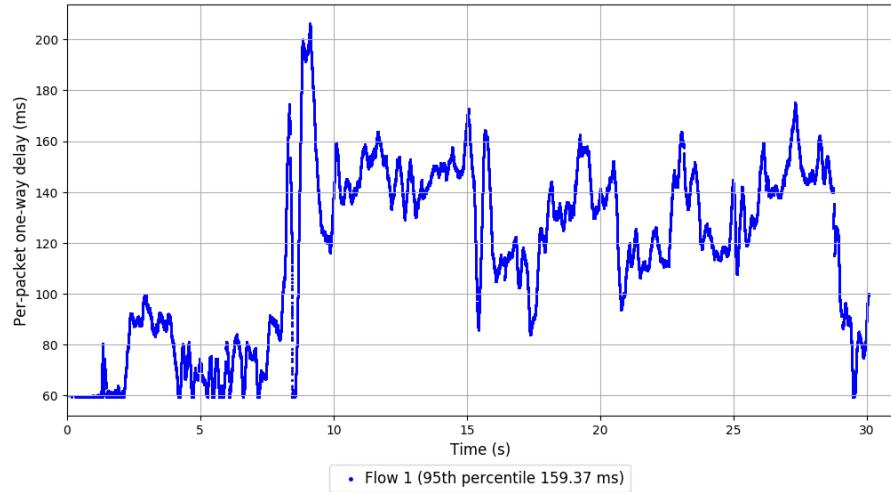
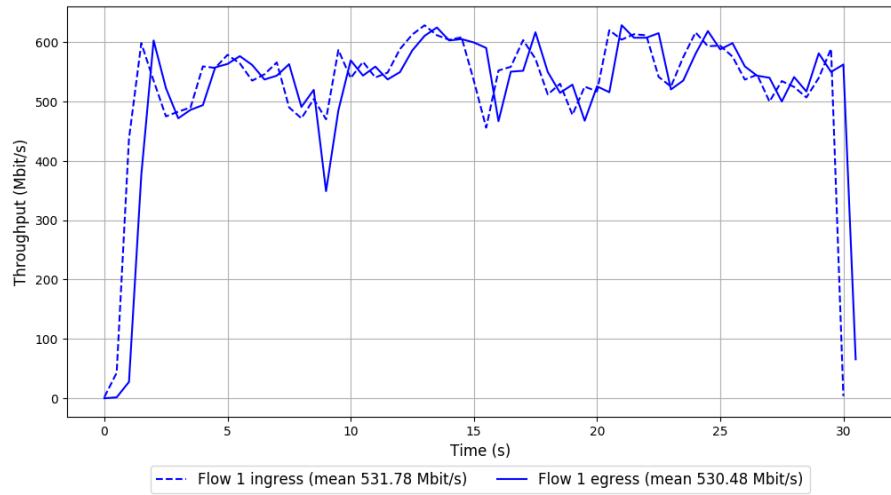


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-01-22 04:02:58
End at: 2019-01-22 04:03:29
Local clock offset: 0.586 ms
Remote clock offset: -0.304 ms

# Below is generated by plot.py at 2019-01-22 06:57:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 530.48 Mbit/s
95th percentile per-packet one-way delay: 159.367 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 530.48 Mbit/s
95th percentile per-packet one-way delay: 159.367 ms
Loss rate: 0.24%
```

Run 1: Report of TCP Cubic — Data Link

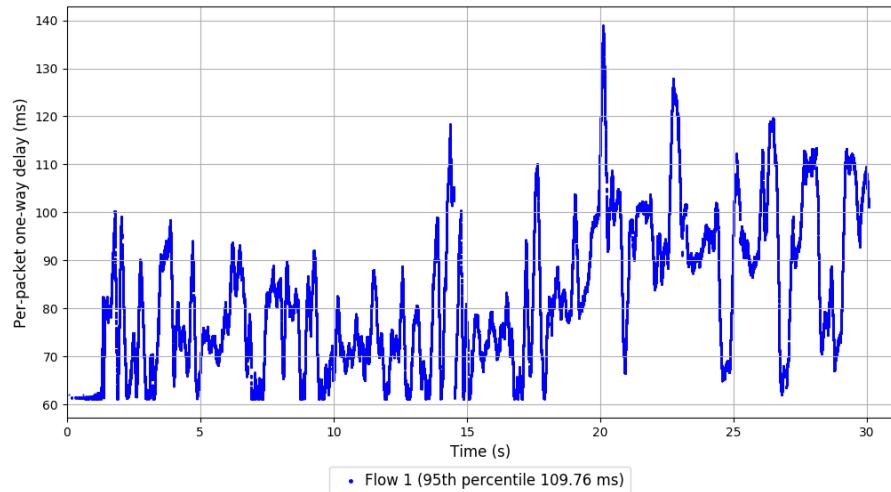
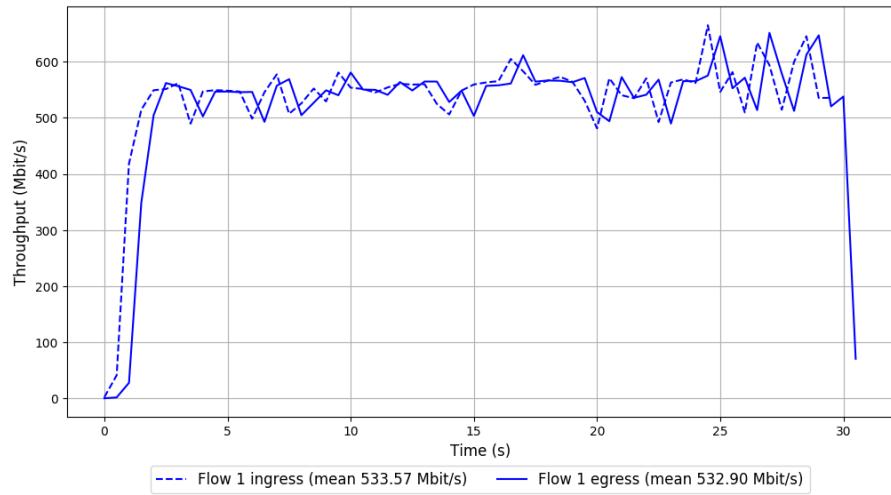


Run 2: Statistics of TCP Cubic

```
Start at: 2019-01-22 04:37:19
End at: 2019-01-22 04:37:50
Local clock offset: -0.551 ms
Remote clock offset: 0.031 ms

# Below is generated by plot.py at 2019-01-22 06:57:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 532.90 Mbit/s
95th percentile per-packet one-way delay: 109.763 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 532.90 Mbit/s
95th percentile per-packet one-way delay: 109.763 ms
Loss rate: 0.12%
```

Run 2: Report of TCP Cubic — Data Link

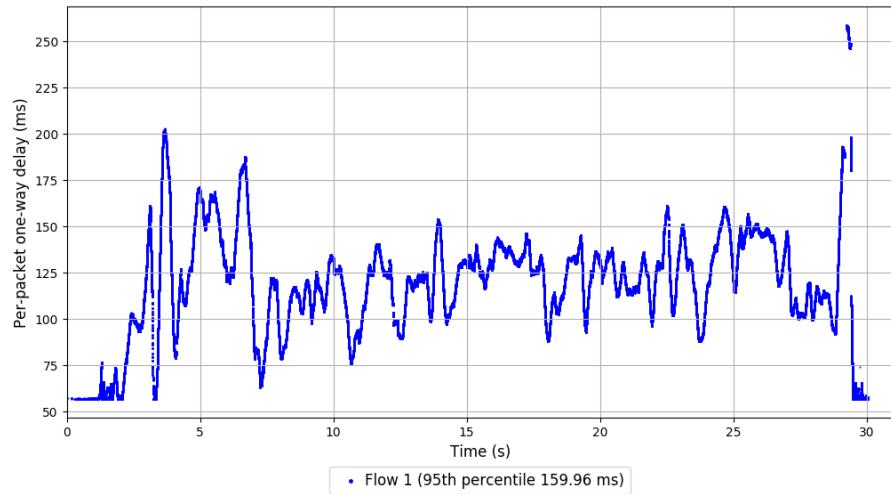
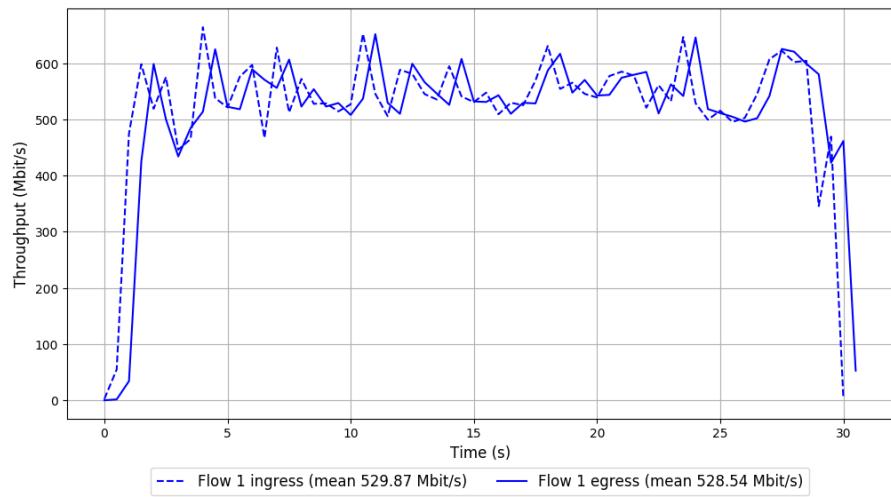


```
Run 3: Statistics of TCP Cubic
```

```
Start at: 2019-01-22 05:11:08
End at: 2019-01-22 05:11:38
Local clock offset: 0.023 ms
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2019-01-22 06:57:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 528.54 Mbit/s
95th percentile per-packet one-way delay: 159.964 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 528.54 Mbit/s
95th percentile per-packet one-way delay: 159.964 ms
Loss rate: 0.25%
```

Run 3: Report of TCP Cubic — Data Link

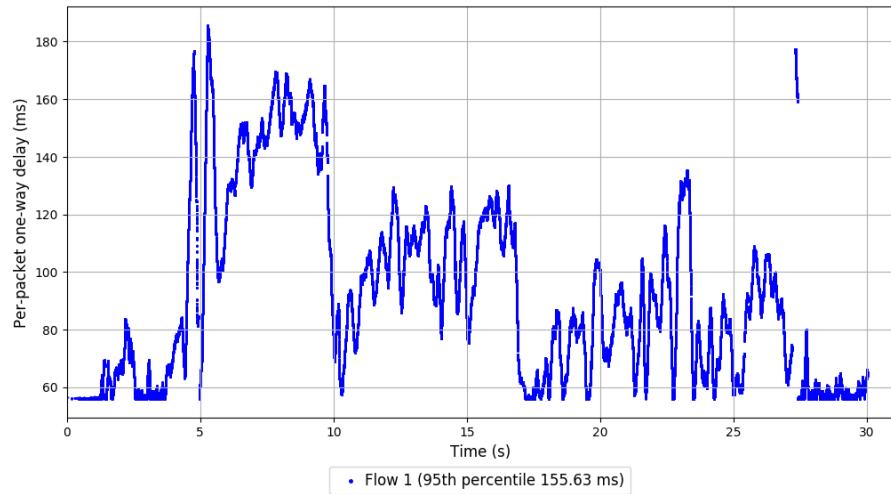
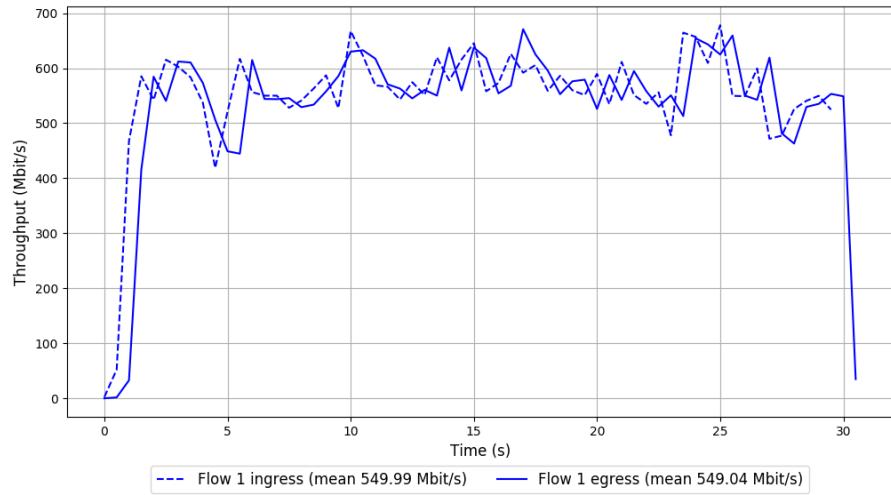


Run 4: Statistics of TCP Cubic

```
Start at: 2019-01-22 05:45:30
End at: 2019-01-22 05:46:00
Local clock offset: -0.286 ms
Remote clock offset: -1.3 ms

# Below is generated by plot.py at 2019-01-22 06:59:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 549.04 Mbit/s
95th percentile per-packet one-way delay: 155.629 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 549.04 Mbit/s
95th percentile per-packet one-way delay: 155.629 ms
Loss rate: 0.16%
```

Run 4: Report of TCP Cubic — Data Link

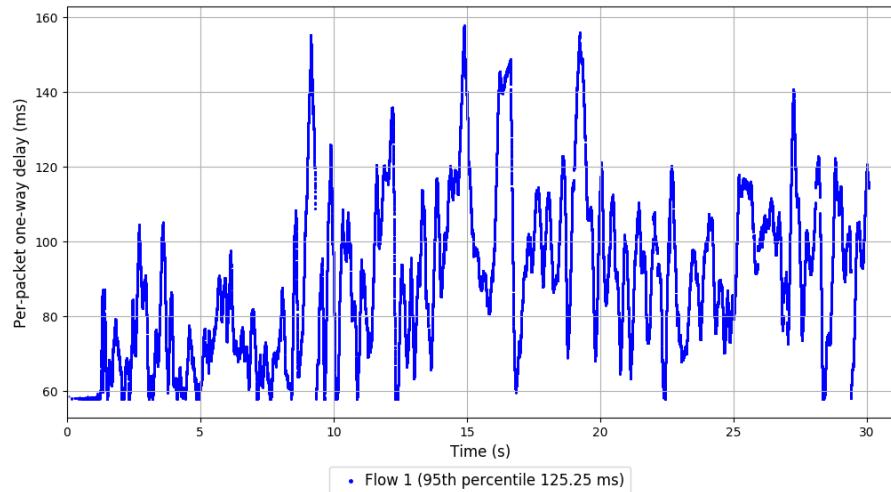
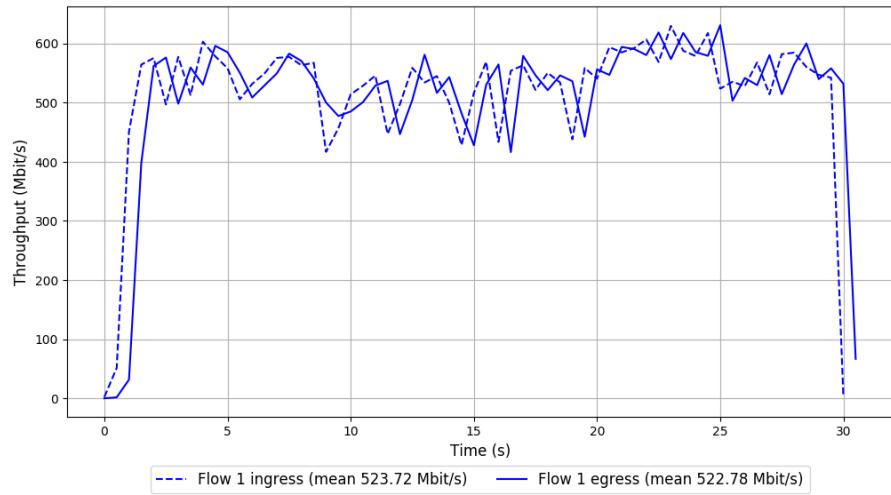


Run 5: Statistics of TCP Cubic

```
Start at: 2019-01-22 06:18:31
End at: 2019-01-22 06:19:01
Local clock offset: -0.0 ms
Remote clock offset: 0.655 ms

# Below is generated by plot.py at 2019-01-22 06:59:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 522.78 Mbit/s
95th percentile per-packet one-way delay: 125.246 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 522.78 Mbit/s
95th percentile per-packet one-way delay: 125.246 ms
Loss rate: 0.17%
```

Run 5: Report of TCP Cubic — Data Link

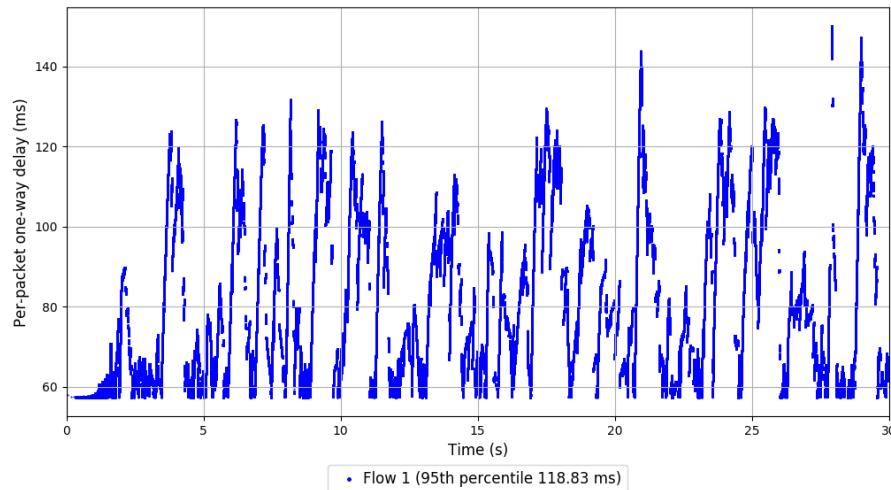
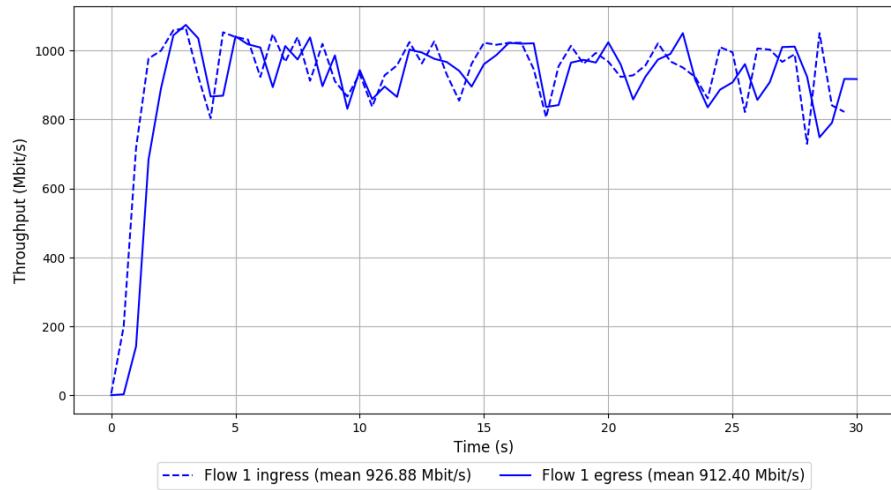


```
Run 1: Statistics of FillP

Start at: 2019-01-22 03:41:08
End at: 2019-01-22 03:41:38
Local clock offset: -0.006 ms
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2019-01-22 07:09:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 912.40 Mbit/s
95th percentile per-packet one-way delay: 118.829 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 912.40 Mbit/s
95th percentile per-packet one-way delay: 118.829 ms
Loss rate: 1.55%
```

Run 1: Report of FillP — Data Link

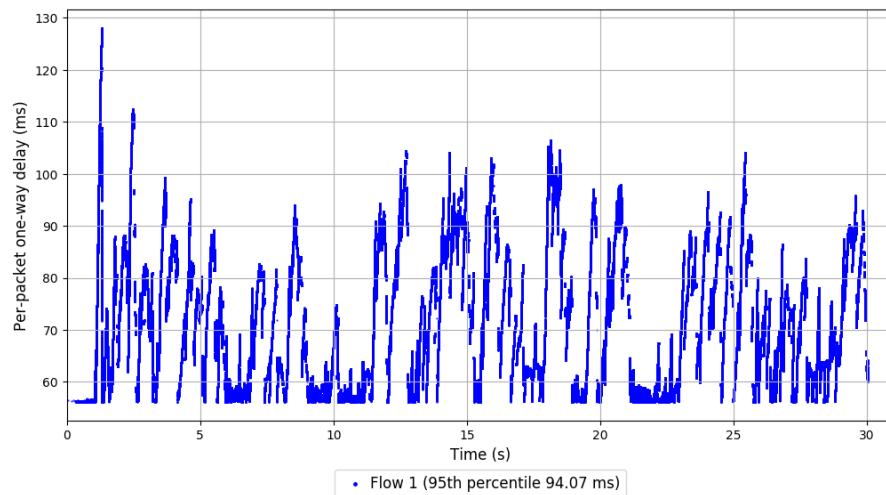
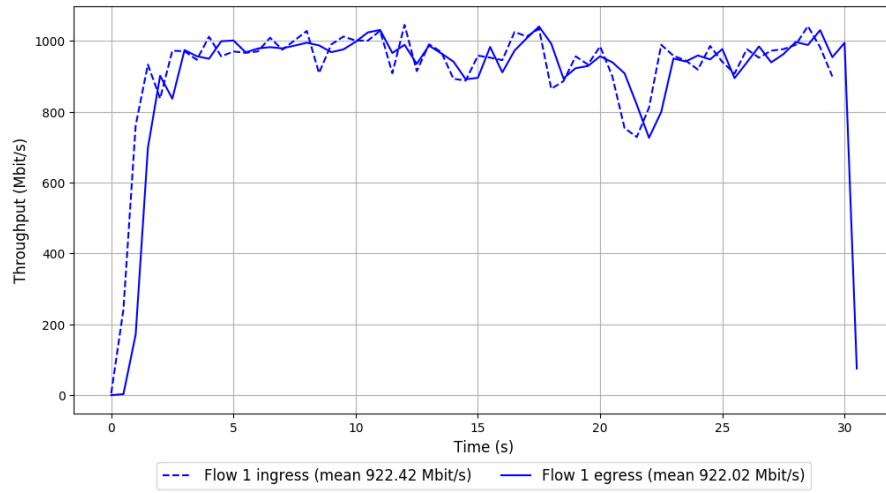


Run 2: Statistics of FillP

```
Start at: 2019-01-22 04:13:53
End at: 2019-01-22 04:14:23
Local clock offset: -0.058 ms
Remote clock offset: -0.802 ms

# Below is generated by plot.py at 2019-01-22 07:23:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 922.02 Mbit/s
95th percentile per-packet one-way delay: 94.070 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 922.02 Mbit/s
95th percentile per-packet one-way delay: 94.070 ms
Loss rate: 0.03%
```

Run 2: Report of FillP — Data Link

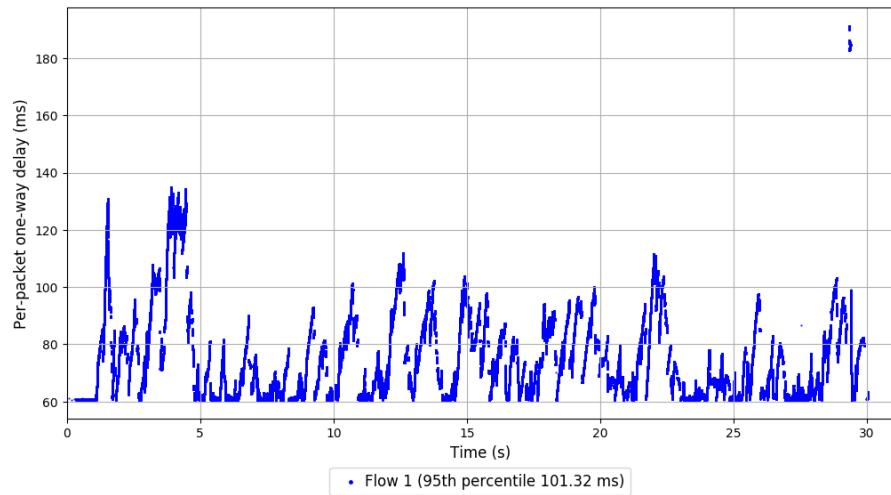
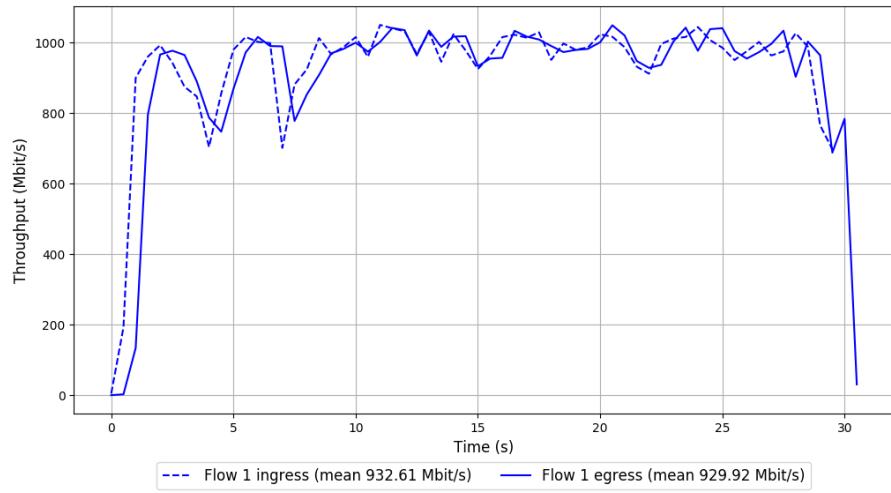


Run 3: Statistics of FillP

```
Start at: 2019-01-22 04:49:00
End at: 2019-01-22 04:49:30
Local clock offset: -0.314 ms
Remote clock offset: -0.348 ms

# Below is generated by plot.py at 2019-01-22 07:24:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 929.92 Mbit/s
95th percentile per-packet one-way delay: 101.317 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 929.92 Mbit/s
95th percentile per-packet one-way delay: 101.317 ms
Loss rate: 0.29%
```

Run 3: Report of FillP — Data Link

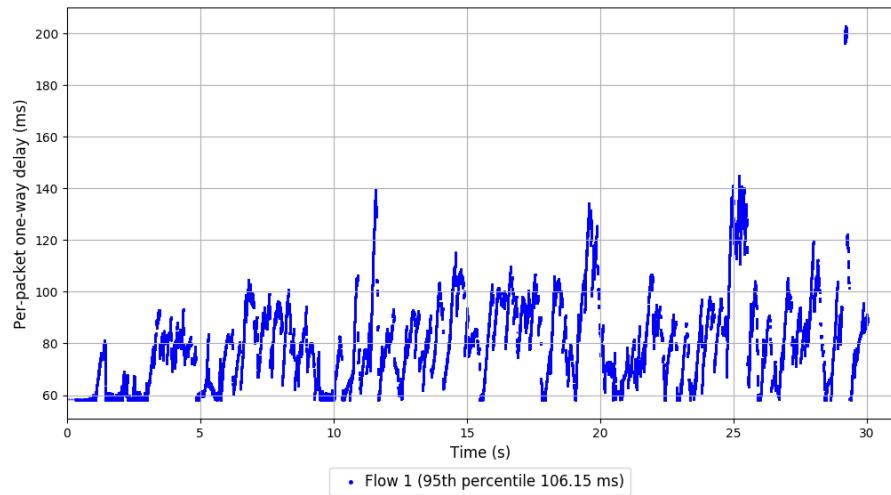
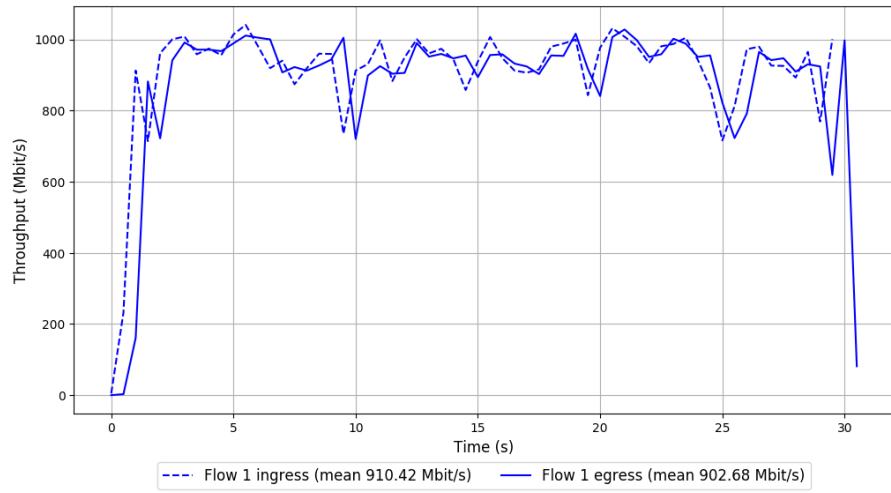


Run 4: Statistics of FillP

```
Start at: 2019-01-22 05:22:06
End at: 2019-01-22 05:22:36
Local clock offset: 0.112 ms
Remote clock offset: 1.295 ms

# Below is generated by plot.py at 2019-01-22 07:24:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 902.68 Mbit/s
95th percentile per-packet one-way delay: 106.151 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 902.68 Mbit/s
95th percentile per-packet one-way delay: 106.151 ms
Loss rate: 0.84%
```

Run 4: Report of FillP — Data Link

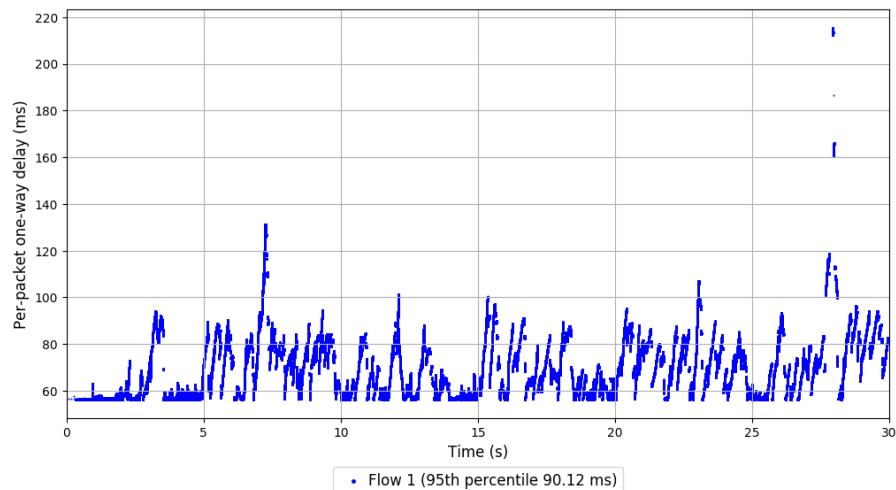
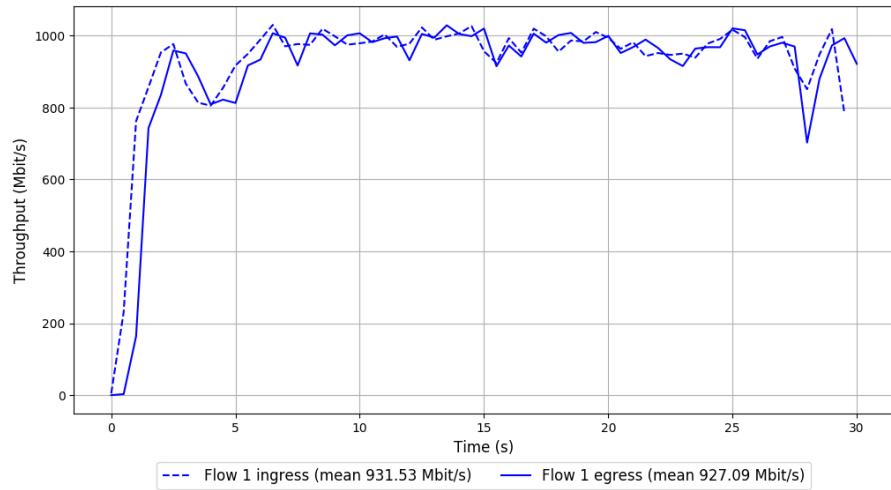


Run 5: Statistics of FillP

```
Start at: 2019-01-22 05:57:04
End at: 2019-01-22 05:57:34
Local clock offset: 0.107 ms
Remote clock offset: -0.612 ms

# Below is generated by plot.py at 2019-01-22 07:25:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 927.09 Mbit/s
95th percentile per-packet one-way delay: 90.117 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 927.09 Mbit/s
95th percentile per-packet one-way delay: 90.117 ms
Loss rate: 0.46%
```

Run 5: Report of FillP — Data Link

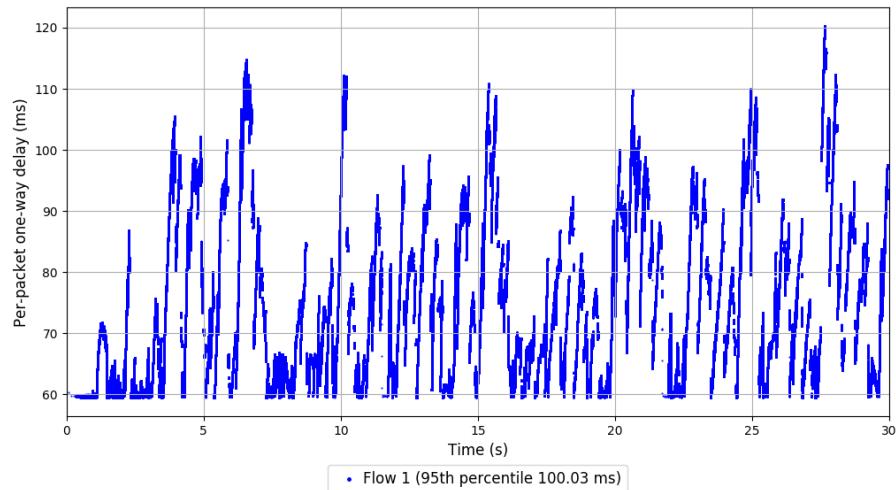
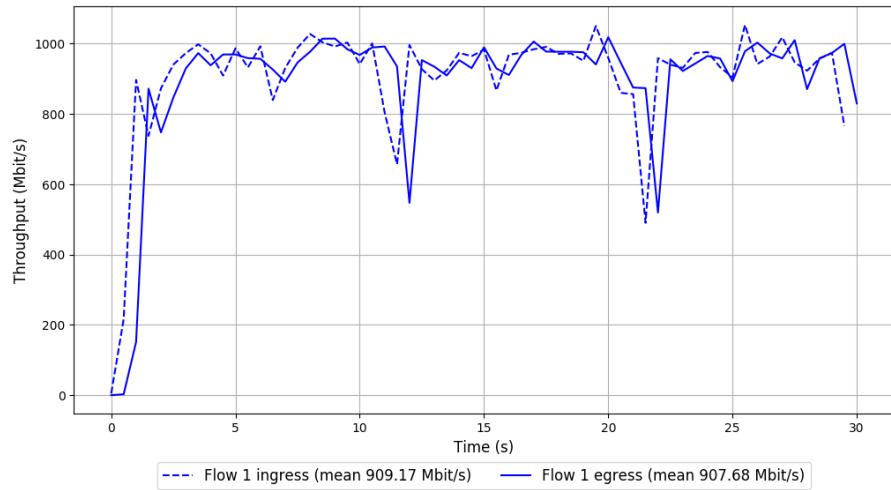


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-01-22 03:50:40
End at: 2019-01-22 03:51:10
Local clock offset: 0.001 ms
Remote clock offset: -0.756 ms

# Below is generated by plot.py at 2019-01-22 07:25:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 907.68 Mbit/s
95th percentile per-packet one-way delay: 100.032 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 907.68 Mbit/s
95th percentile per-packet one-way delay: 100.032 ms
Loss rate: 0.16%
```

Run 1: Report of FillP-Sheep — Data Link

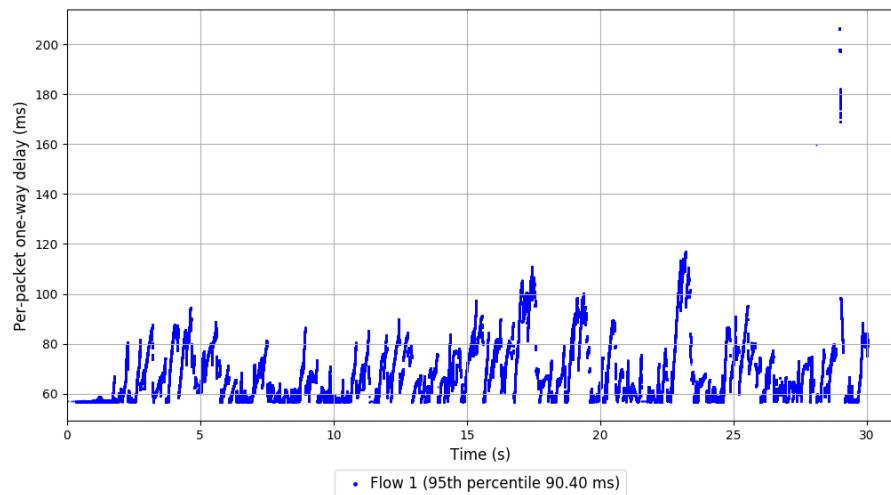
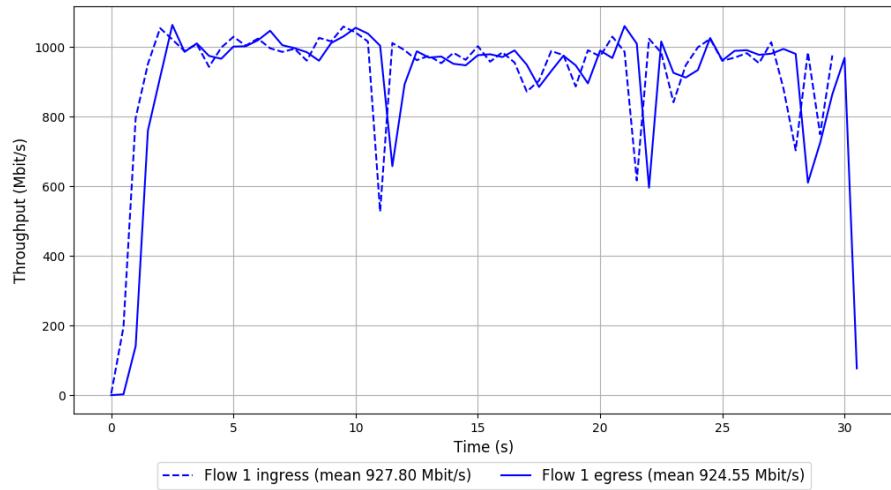


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-01-22 04:23:54
End at: 2019-01-22 04:24:24
Local clock offset: 0.326 ms
Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2019-01-22 07:25:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 924.55 Mbit/s
95th percentile per-packet one-way delay: 90.399 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 924.55 Mbit/s
95th percentile per-packet one-way delay: 90.399 ms
Loss rate: 0.34%
```

Run 2: Report of FillP-Sheep — Data Link

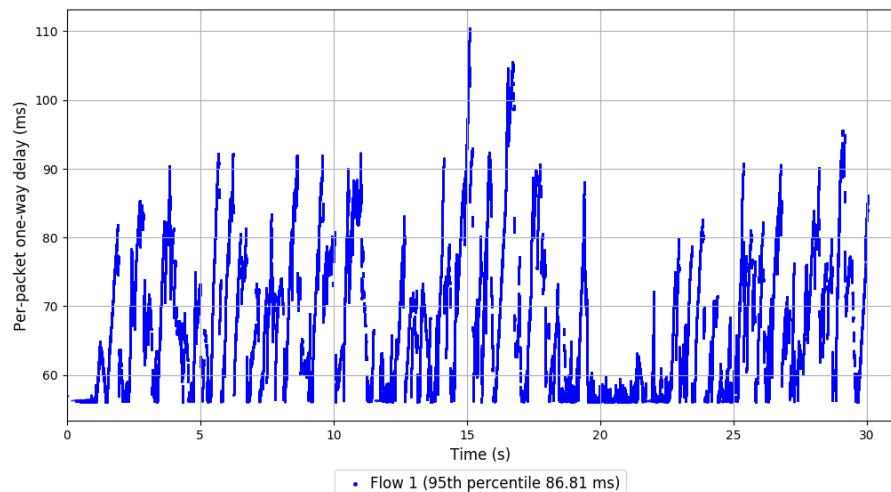
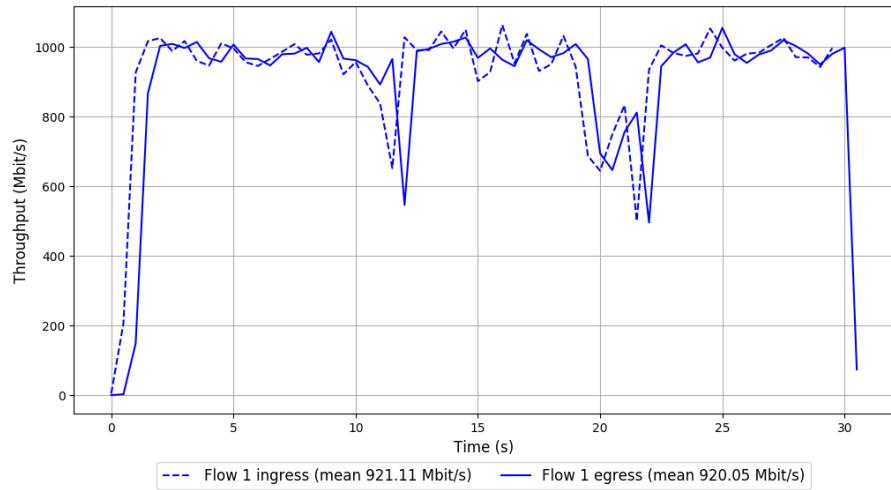


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-01-22 04:59:01
End at: 2019-01-22 04:59:31
Local clock offset: 0.35 ms
Remote clock offset: -0.644 ms

# Below is generated by plot.py at 2019-01-22 07:25:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 920.05 Mbit/s
95th percentile per-packet one-way delay: 86.805 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 920.05 Mbit/s
95th percentile per-packet one-way delay: 86.805 ms
Loss rate: 0.11%
```

Run 3: Report of FillP-Sheep — Data Link

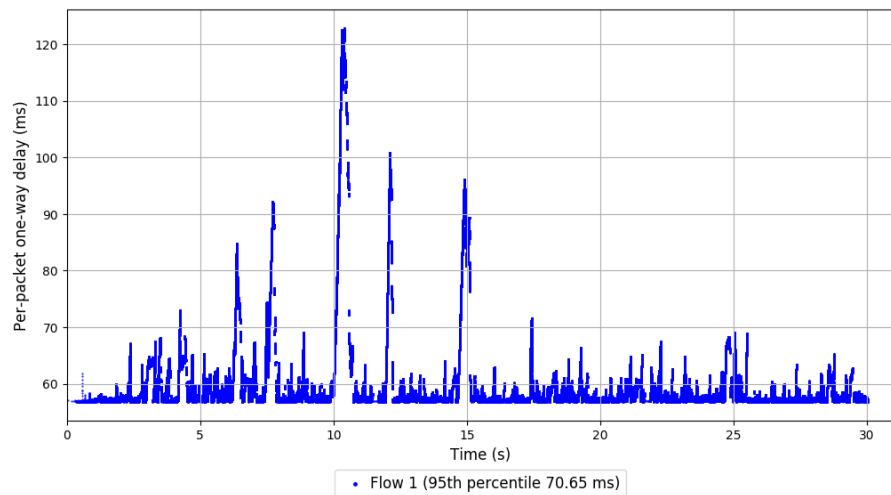
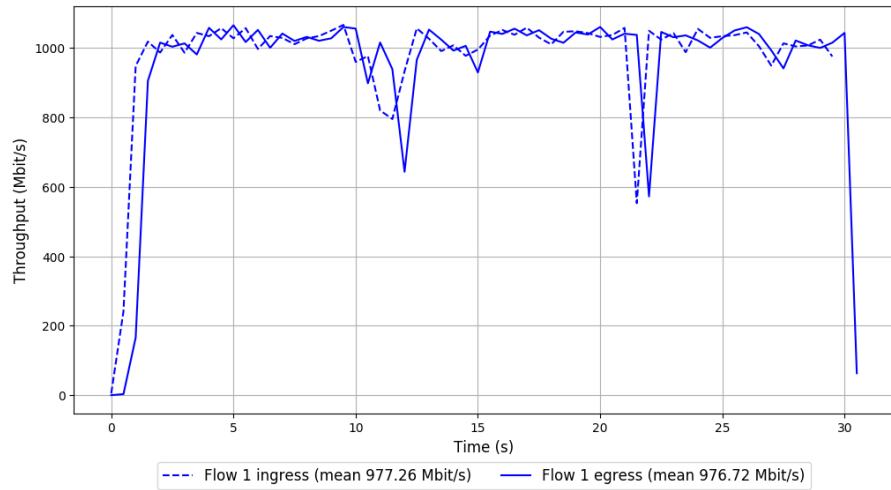


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-01-22 05:32:15
End at: 2019-01-22 05:32:45
Local clock offset: -0.473 ms
Remote clock offset: -0.571 ms

# Below is generated by plot.py at 2019-01-22 07:41:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 976.72 Mbit/s
95th percentile per-packet one-way delay: 70.647 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 976.72 Mbit/s
95th percentile per-packet one-way delay: 70.647 ms
Loss rate: 0.06%
```

Run 4: Report of FillP-Sheep — Data Link

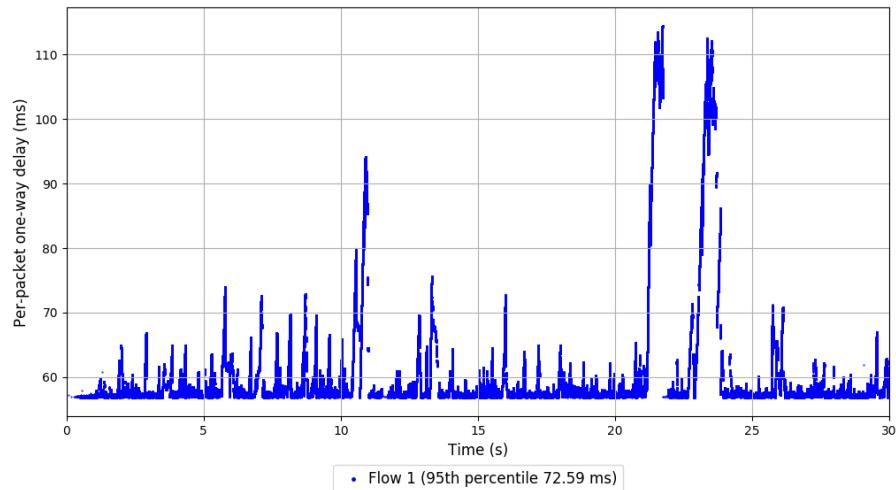
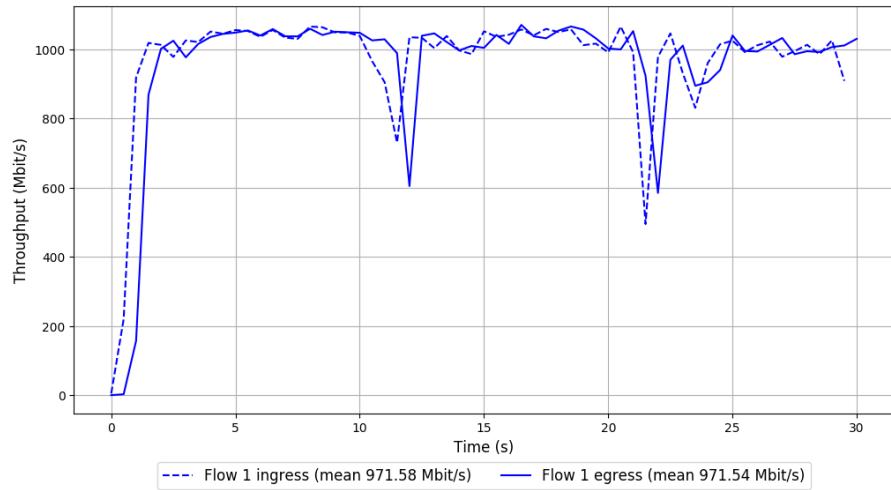


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-01-22 06:06:13
End at: 2019-01-22 06:06:43
Local clock offset: 0.148 ms
Remote clock offset: 0.04 ms

# Below is generated by plot.py at 2019-01-22 07:51:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 971.54 Mbit/s
95th percentile per-packet one-way delay: 72.592 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 971.54 Mbit/s
95th percentile per-packet one-way delay: 72.592 ms
Loss rate: 0.00%
```

Run 5: Report of FillP-Sheep — Data Link

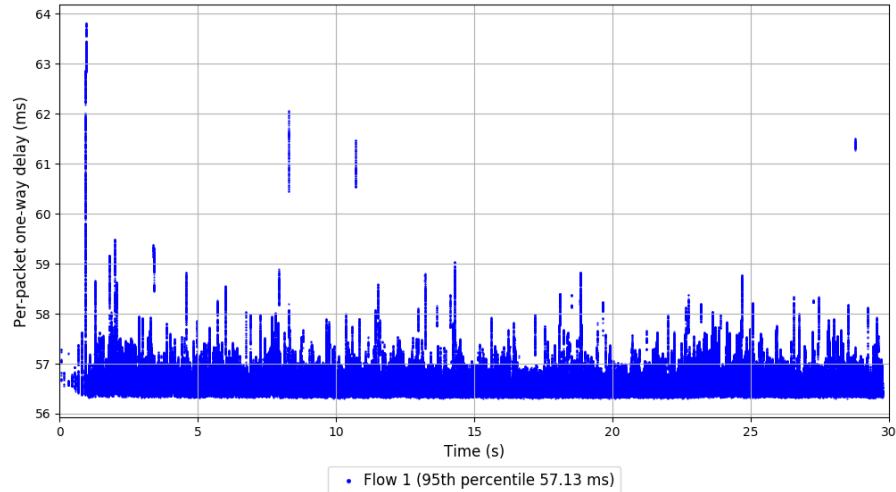
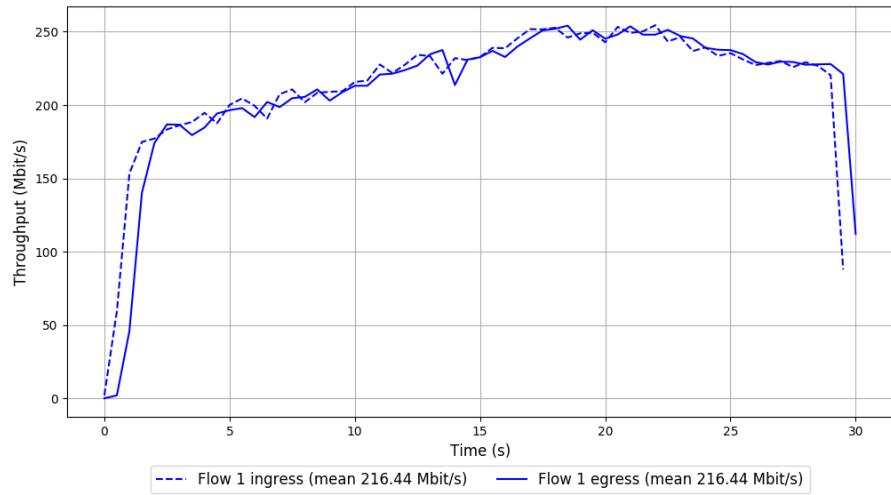


Run 1: Statistics of Indigo

```
Start at: 2019-01-22 03:36:59
End at: 2019-01-22 03:37:29
Local clock offset: 0.15 ms
Remote clock offset: -0.649 ms

# Below is generated by plot.py at 2019-01-22 07:51:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 216.44 Mbit/s
95th percentile per-packet one-way delay: 57.128 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 216.44 Mbit/s
95th percentile per-packet one-way delay: 57.128 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

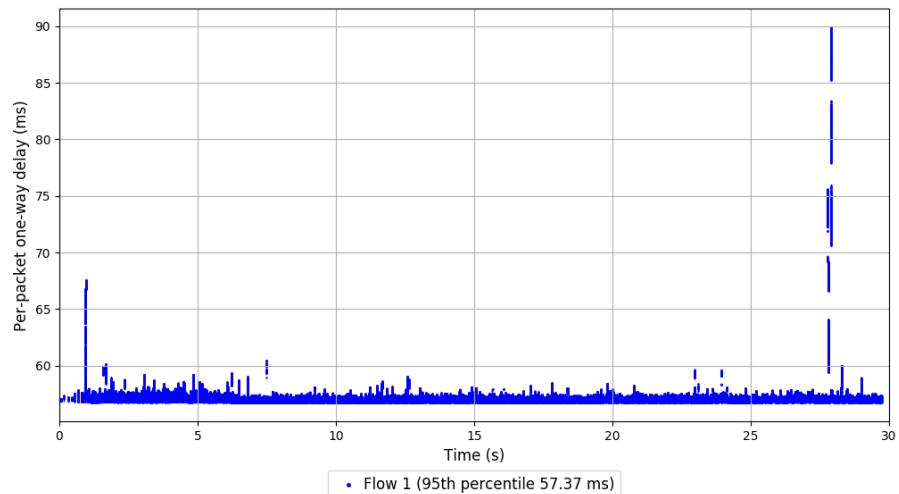
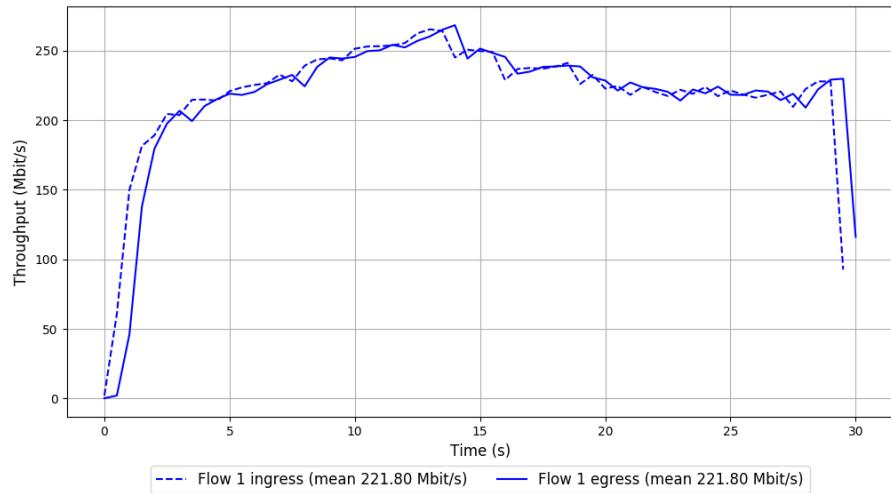


Run 2: Statistics of Indigo

```
Start at: 2019-01-22 04:09:25
End at: 2019-01-22 04:09:55
Local clock offset: -0.158 ms
Remote clock offset: -0.399 ms

# Below is generated by plot.py at 2019-01-22 07:51:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 221.80 Mbit/s
95th percentile per-packet one-way delay: 57.371 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 221.80 Mbit/s
95th percentile per-packet one-way delay: 57.371 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo — Data Link

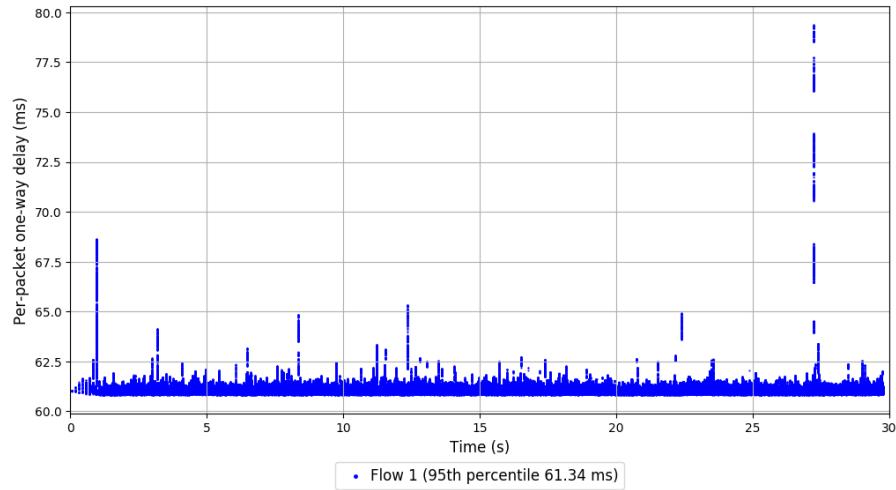
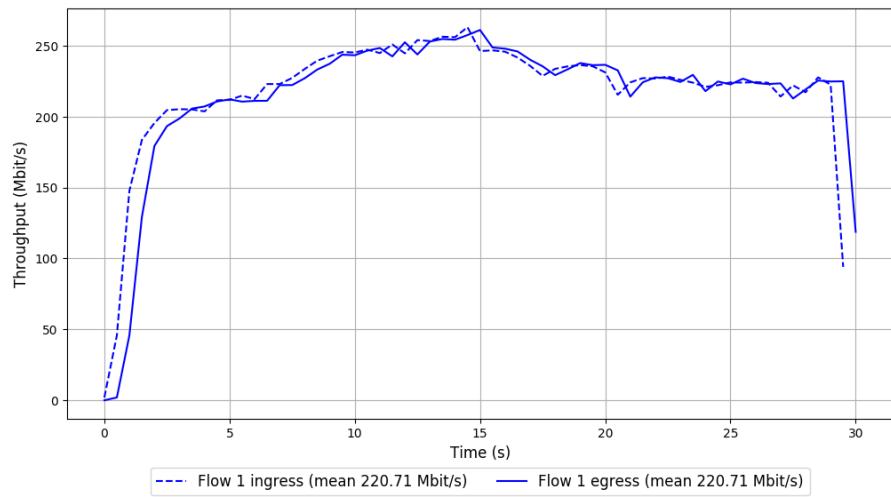


Run 3: Statistics of Indigo

```
Start at: 2019-01-22 04:44:09
End at: 2019-01-22 04:44:39
Local clock offset: -0.285 ms
Remote clock offset: 0.247 ms

# Below is generated by plot.py at 2019-01-22 07:51:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 220.71 Mbit/s
95th percentile per-packet one-way delay: 61.338 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 220.71 Mbit/s
95th percentile per-packet one-way delay: 61.338 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo — Data Link

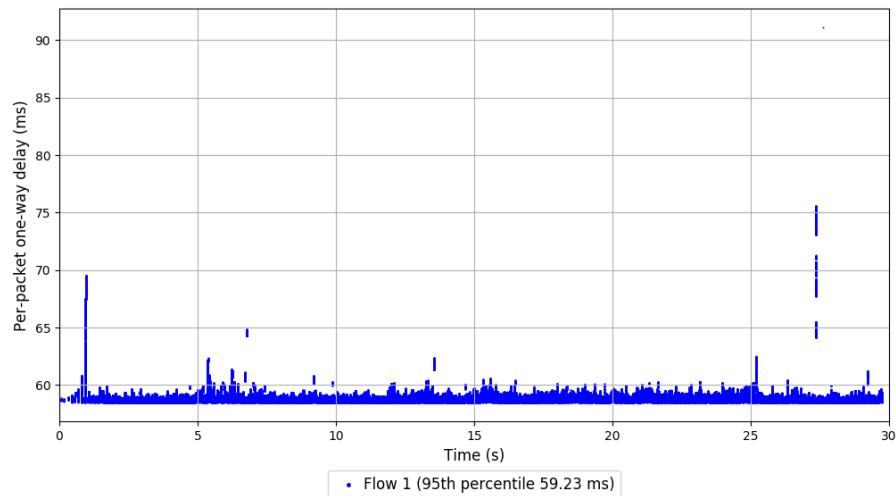
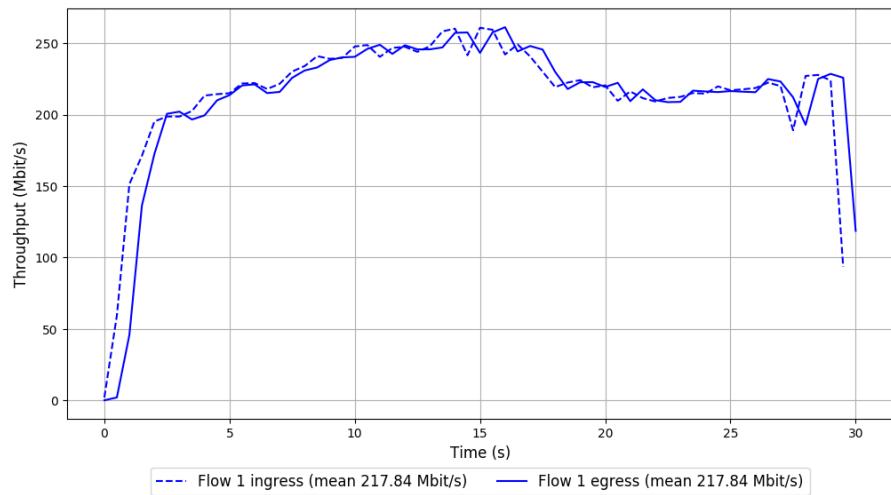


Run 4: Statistics of Indigo

```
Start at: 2019-01-22 05:17:39
End at: 2019-01-22 05:18:09
Local clock offset: -0.057 ms
Remote clock offset: 1.136 ms

# Below is generated by plot.py at 2019-01-22 07:51:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 217.84 Mbit/s
95th percentile per-packet one-way delay: 59.226 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 217.84 Mbit/s
95th percentile per-packet one-way delay: 59.226 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo — Data Link

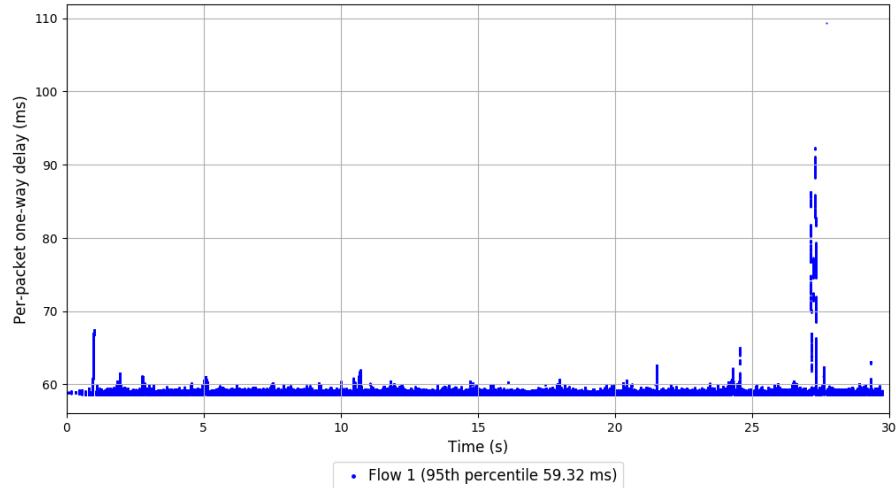
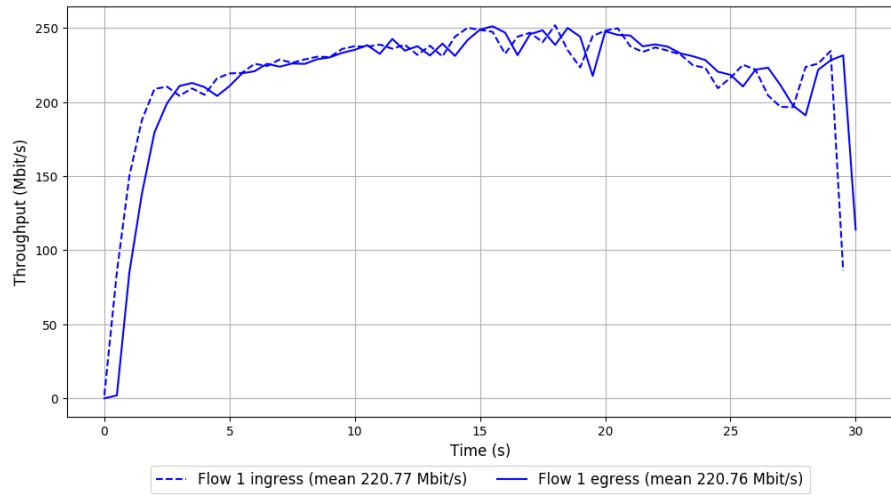


Run 5: Statistics of Indigo

```
Start at: 2019-01-22 05:52:28
End at: 2019-01-22 05:52:58
Local clock offset: -0.441 ms
Remote clock offset: 1.179 ms

# Below is generated by plot.py at 2019-01-22 07:51:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 220.76 Mbit/s
95th percentile per-packet one-way delay: 59.319 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 220.76 Mbit/s
95th percentile per-packet one-way delay: 59.319 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo — Data Link

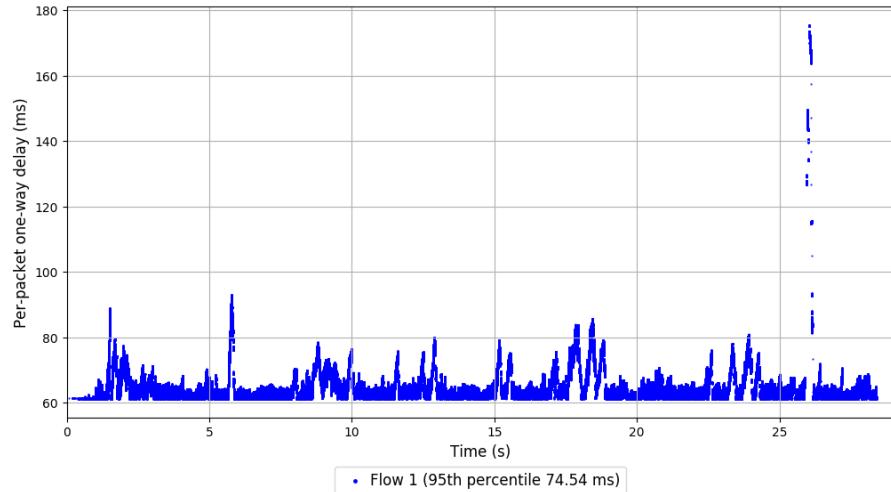
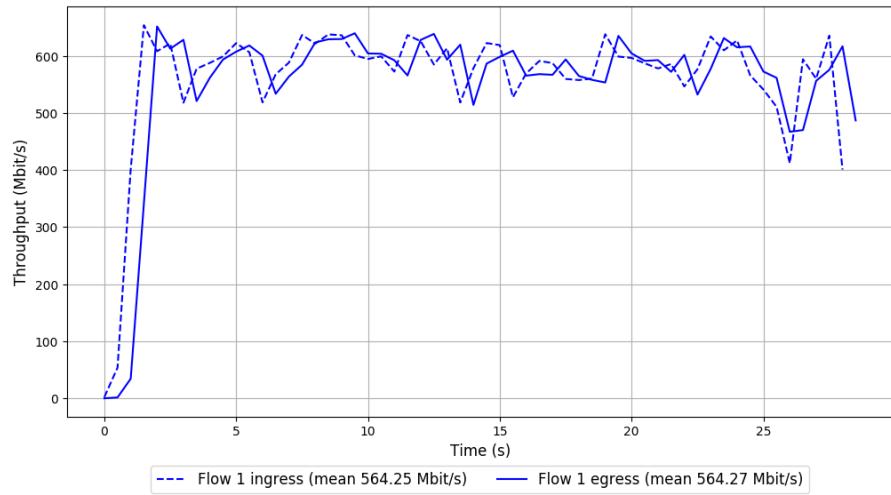


```
Run 1: Statistics of Indigo-MusesC3
```

```
Start at: 2019-01-22 04:04:40
End at: 2019-01-22 04:05:10
Local clock offset: 0.403 ms
Remote clock offset: 1.345 ms

# Below is generated by plot.py at 2019-01-22 07:51:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 564.27 Mbit/s
95th percentile per-packet one-way delay: 74.538 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 564.27 Mbit/s
95th percentile per-packet one-way delay: 74.538 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesC3 — Data Link

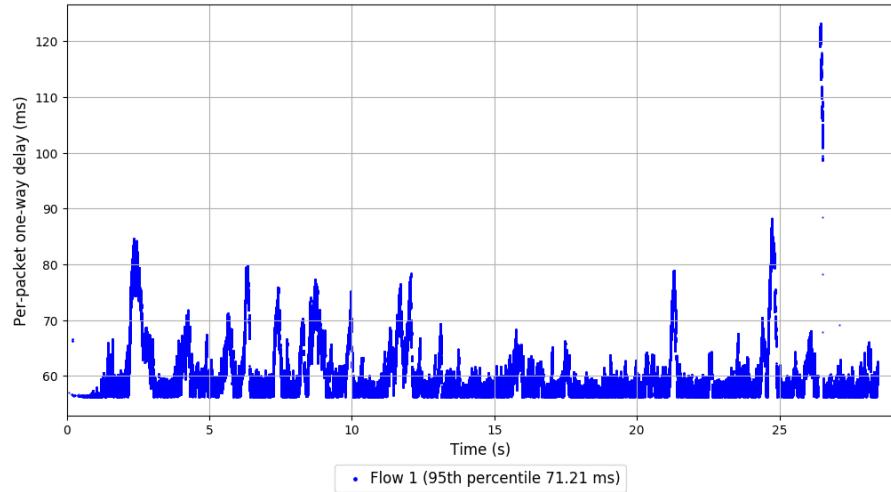
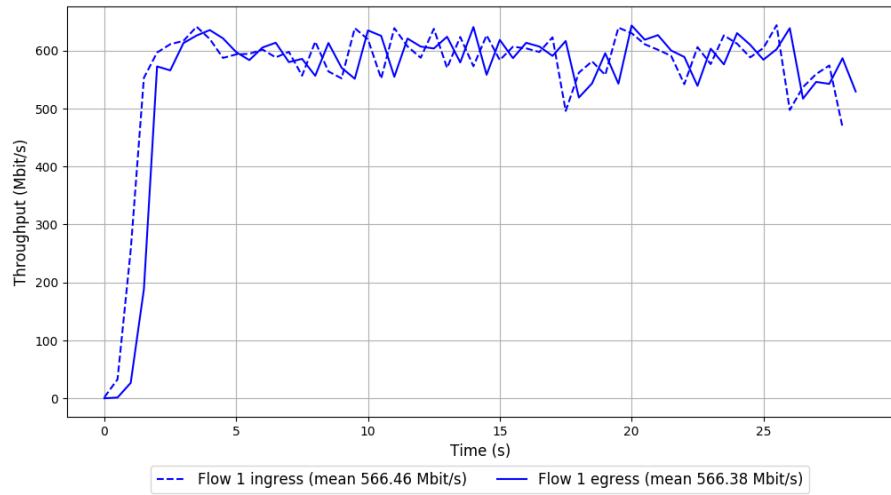


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-01-22 04:39:11
End at: 2019-01-22 04:39:41
Local clock offset: -0.398 ms
Remote clock offset: -0.822 ms

# Below is generated by plot.py at 2019-01-22 07:51:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 566.38 Mbit/s
95th percentile per-packet one-way delay: 71.206 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 566.38 Mbit/s
95th percentile per-packet one-way delay: 71.206 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-MusesC3 — Data Link

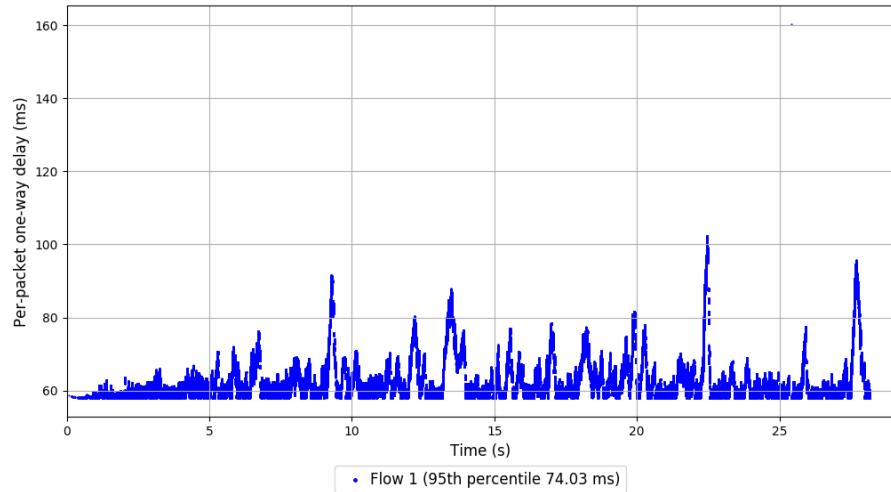
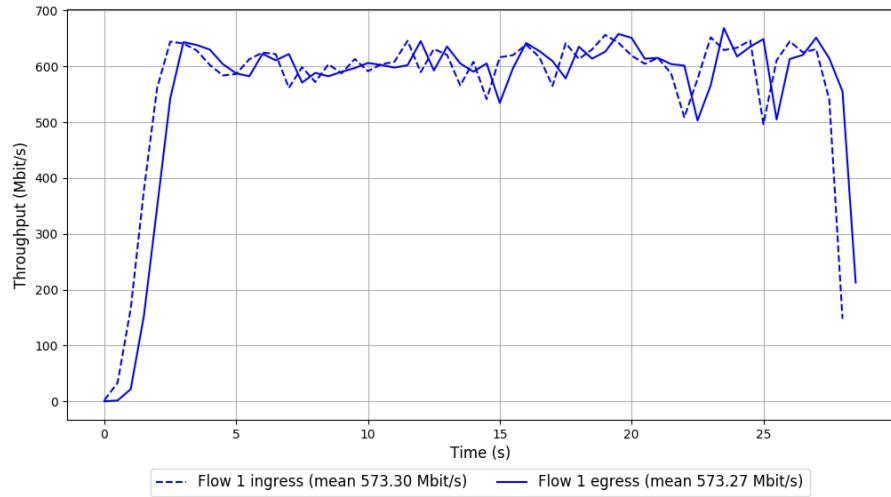


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-01-22 05:12:56
End at: 2019-01-22 05:13:26
Local clock offset: -0.493 ms
Remote clock offset: 0.582 ms

# Below is generated by plot.py at 2019-01-22 07:51:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 573.27 Mbit/s
95th percentile per-packet one-way delay: 74.034 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 573.27 Mbit/s
95th percentile per-packet one-way delay: 74.034 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-MusesC3 — Data Link

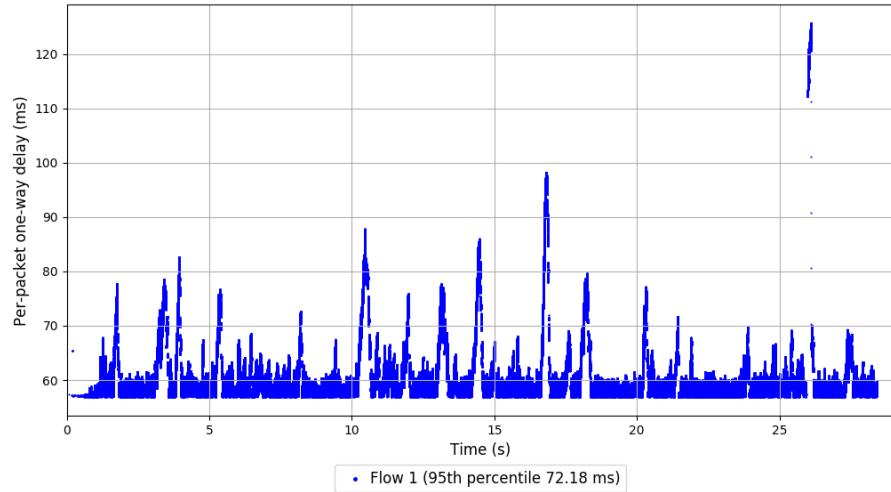
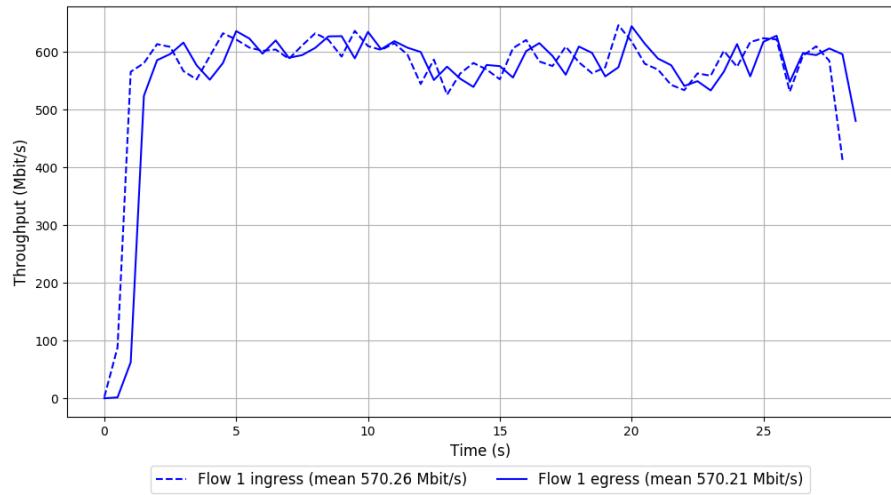


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-01-22 05:47:34
End at: 2019-01-22 05:48:04
Local clock offset: 0.145 ms
Remote clock offset: 0.088 ms

# Below is generated by plot.py at 2019-01-22 07:51:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 570.21 Mbit/s
95th percentile per-packet one-way delay: 72.184 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 570.21 Mbit/s
95th percentile per-packet one-way delay: 72.184 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-MusesC3 — Data Link

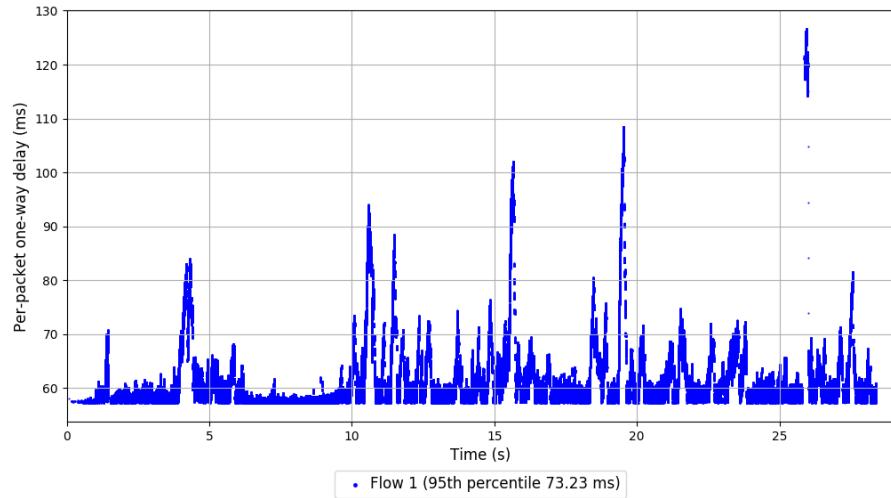
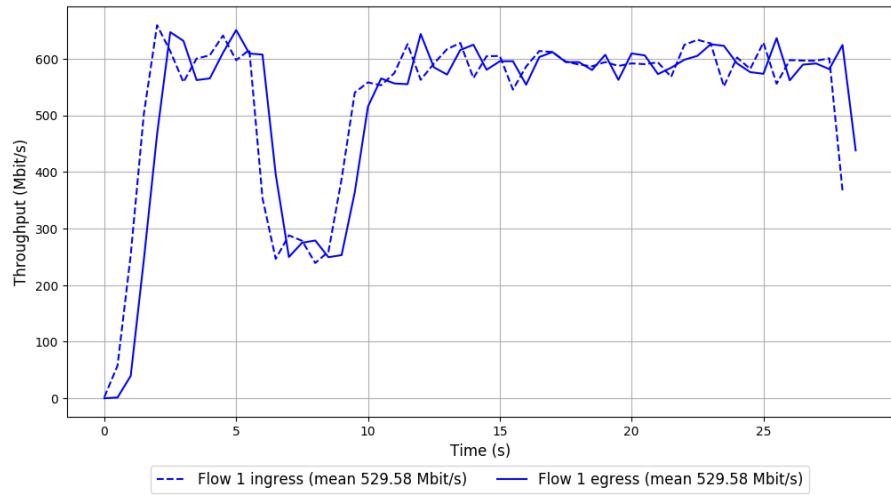


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-01-22 06:20:21
End at: 2019-01-22 06:20:51
Local clock offset: -0.077 ms
Remote clock offset: 0.143 ms

# Below is generated by plot.py at 2019-01-22 07:51:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 529.58 Mbit/s
95th percentile per-packet one-way delay: 73.235 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 529.58 Mbit/s
95th percentile per-packet one-way delay: 73.235 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesC3 — Data Link

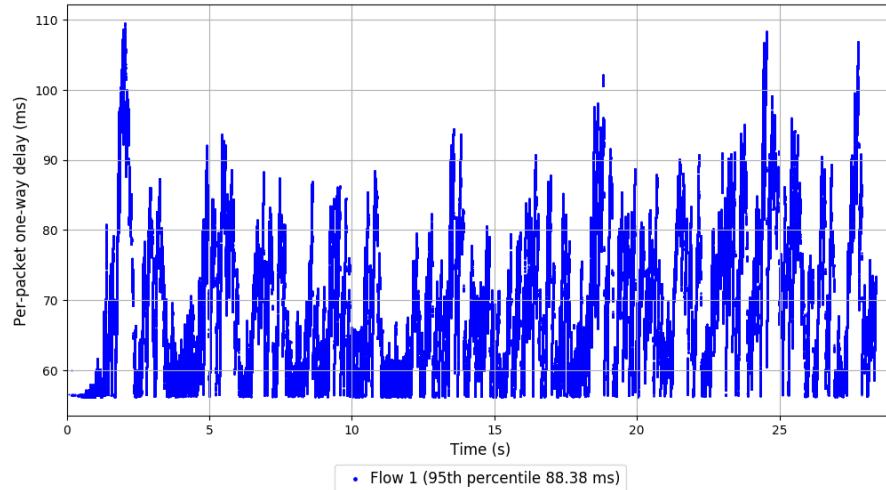
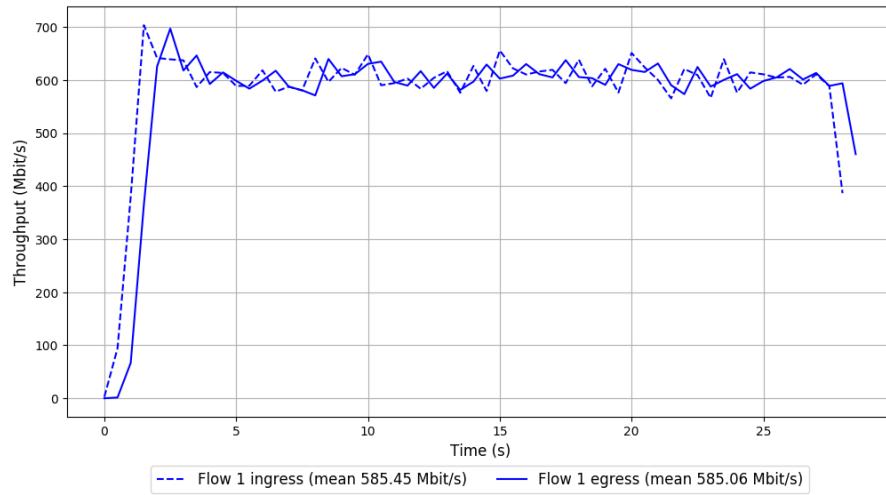


```
Run 1: Statistics of Indigo-MusesC5
```

```
Start at: 2019-01-22 03:48:57
End at: 2019-01-22 03:49:27
Local clock offset: 0.39 ms
Remote clock offset: -0.29 ms

# Below is generated by plot.py at 2019-01-22 07:51:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 585.06 Mbit/s
95th percentile per-packet one-way delay: 88.383 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 585.06 Mbit/s
95th percentile per-packet one-way delay: 88.383 ms
Loss rate: 0.05%
```

Run 1: Report of Indigo-MusesC5 — Data Link

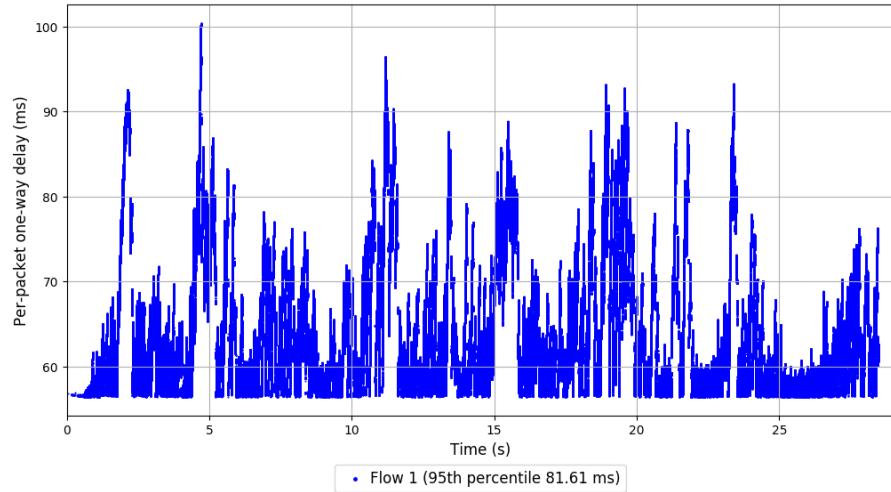
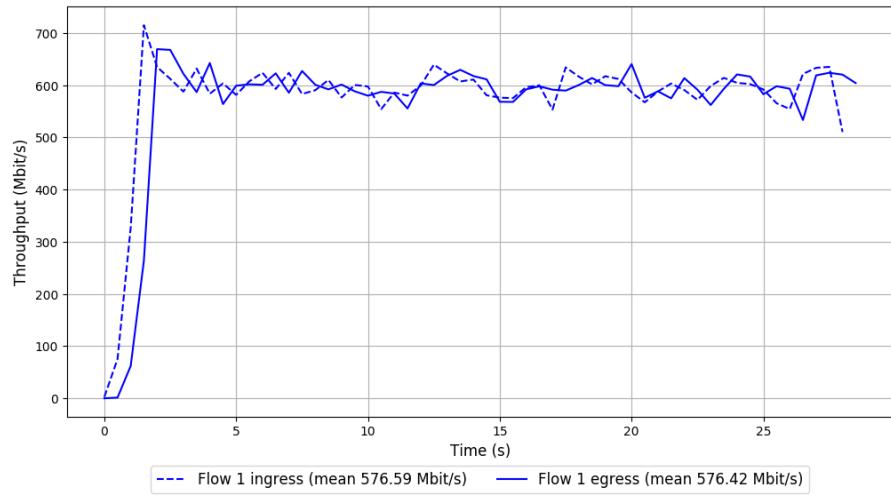


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-01-22 04:22:05
End at: 2019-01-22 04:22:35
Local clock offset: 0.038 ms
Remote clock offset: -0.548 ms

# Below is generated by plot.py at 2019-01-22 07:53:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 576.42 Mbit/s
95th percentile per-packet one-way delay: 81.611 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 576.42 Mbit/s
95th percentile per-packet one-way delay: 81.611 ms
Loss rate: 0.02%
```

Run 2: Report of Indigo-MusesC5 — Data Link

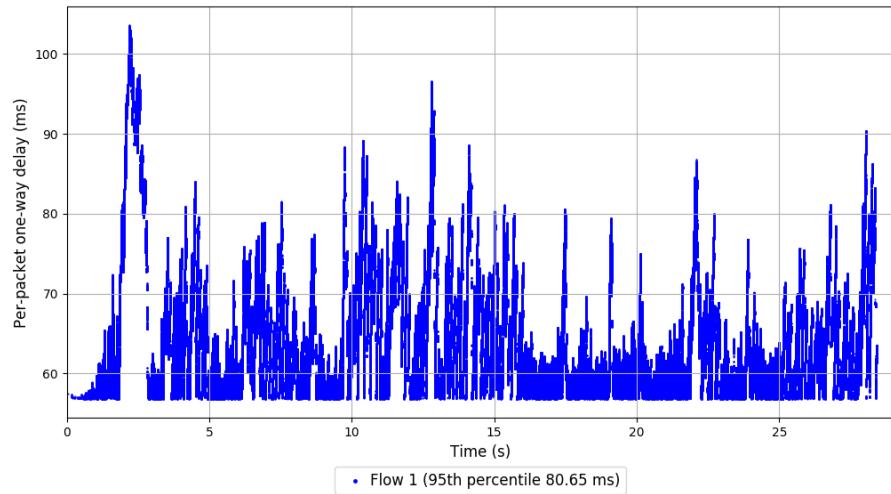
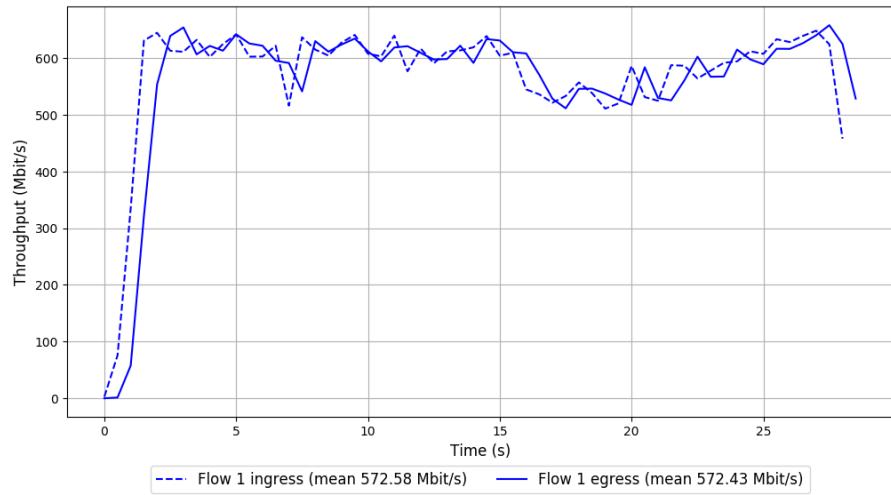


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-01-22 04:57:14
End at: 2019-01-22 04:57:44
Local clock offset: 0.21 ms
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2019-01-22 07:57:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 572.43 Mbit/s
95th percentile per-packet one-way delay: 80.649 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 572.43 Mbit/s
95th percentile per-packet one-way delay: 80.649 ms
Loss rate: 0.01%
```

Run 3: Report of Indigo-MusesC5 — Data Link

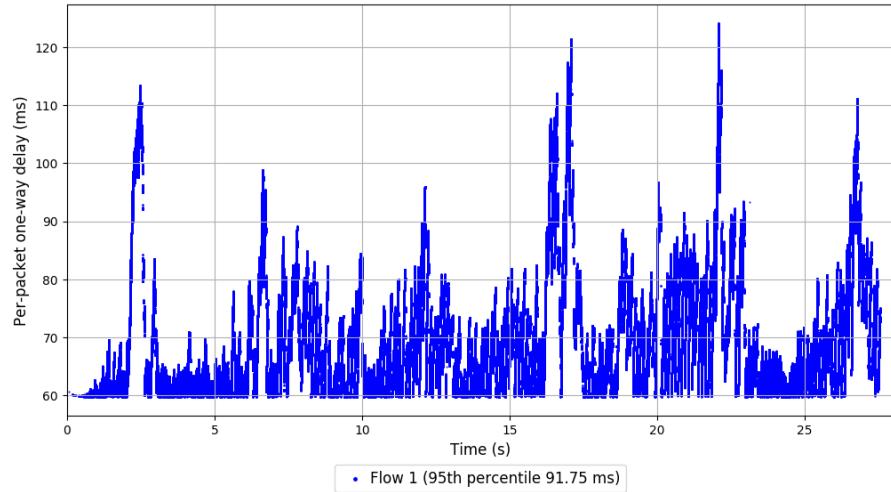
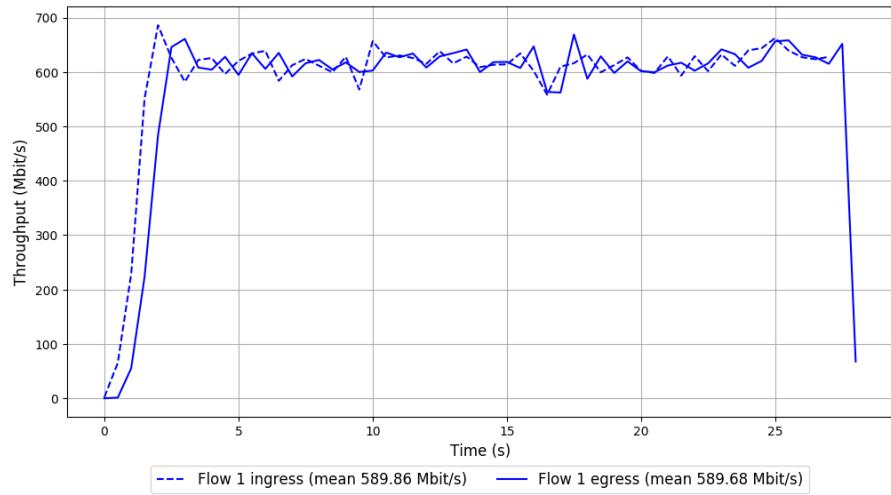


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-01-22 05:30:22
End at: 2019-01-22 05:30:52
Local clock offset: -0.097 ms
Remote clock offset: -0.606 ms

# Below is generated by plot.py at 2019-01-22 08:01:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 589.68 Mbit/s
95th percentile per-packet one-way delay: 91.753 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 589.68 Mbit/s
95th percentile per-packet one-way delay: 91.753 ms
Loss rate: 0.02%
```

Run 4: Report of Indigo-MusesC5 — Data Link

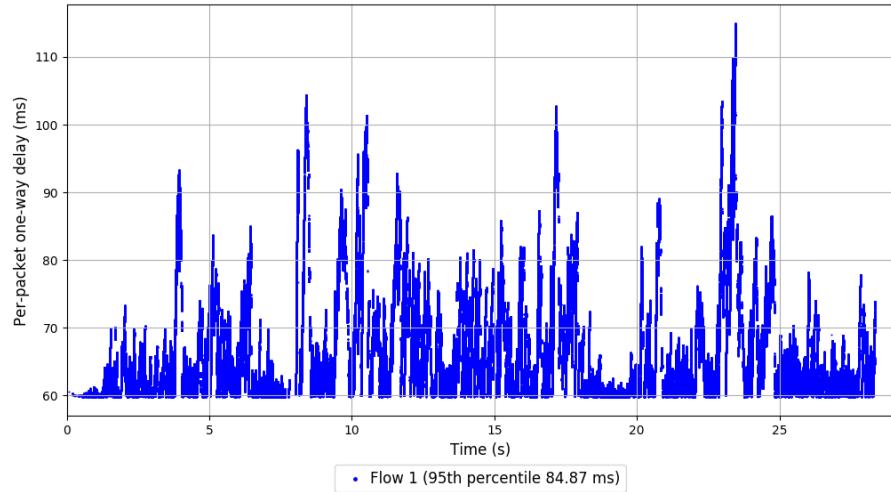
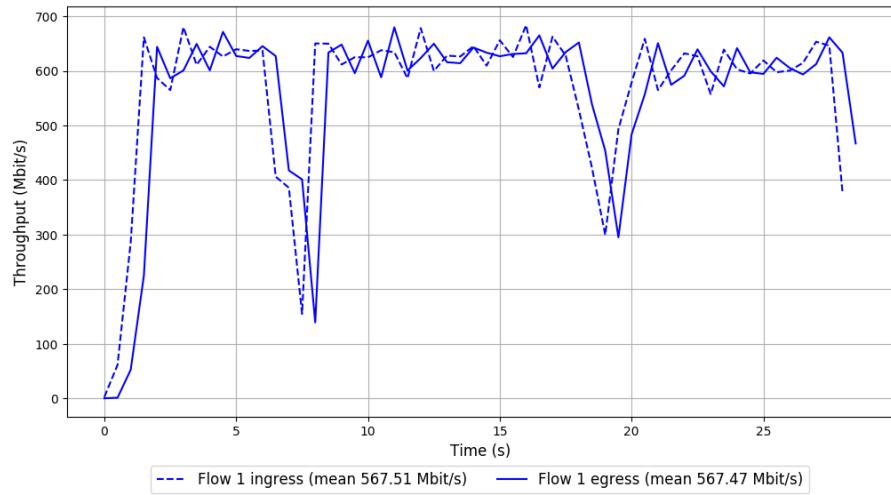


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-01-22 06:04:38
End at: 2019-01-22 06:05:08
Local clock offset: 0.089 ms
Remote clock offset: -0.592 ms

# Below is generated by plot.py at 2019-01-22 08:01:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 567.47 Mbit/s
95th percentile per-packet one-way delay: 84.866 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 567.47 Mbit/s
95th percentile per-packet one-way delay: 84.866 ms
Loss rate: 0.01%
```

Run 5: Report of Indigo-MusesC5 — Data Link

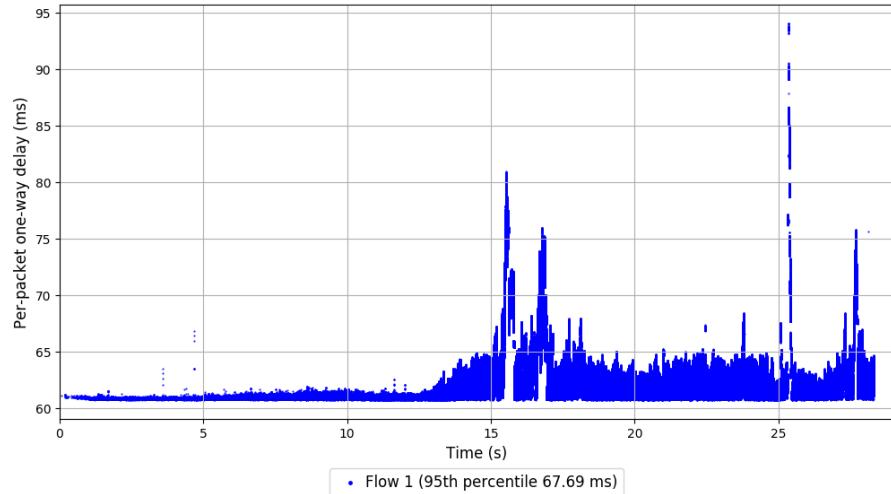
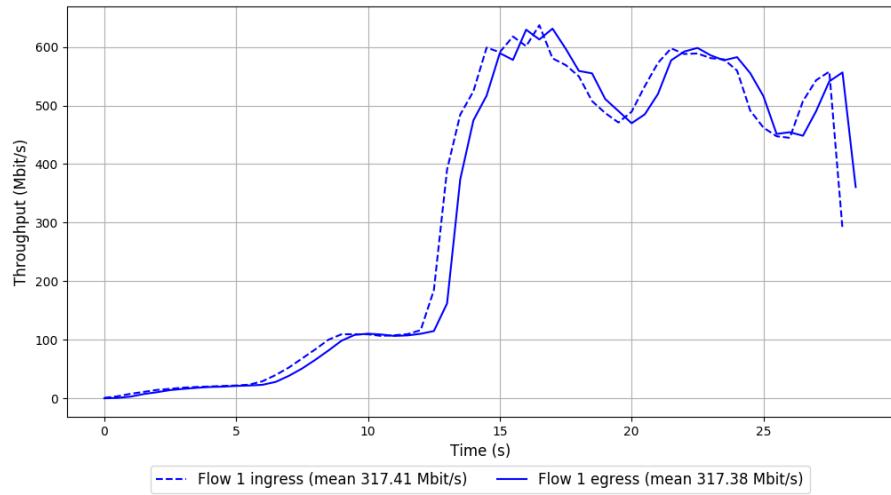


```
Run 1: Statistics of Indigo-MusesD
```

```
Start at: 2019-01-22 03:54:01
End at: 2019-01-22 03:54:31
Local clock offset: 0.602 ms
Remote clock offset: 1.368 ms

# Below is generated by plot.py at 2019-01-22 08:01:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 317.38 Mbit/s
95th percentile per-packet one-way delay: 67.692 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 317.38 Mbit/s
95th percentile per-packet one-way delay: 67.692 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesD — Data Link

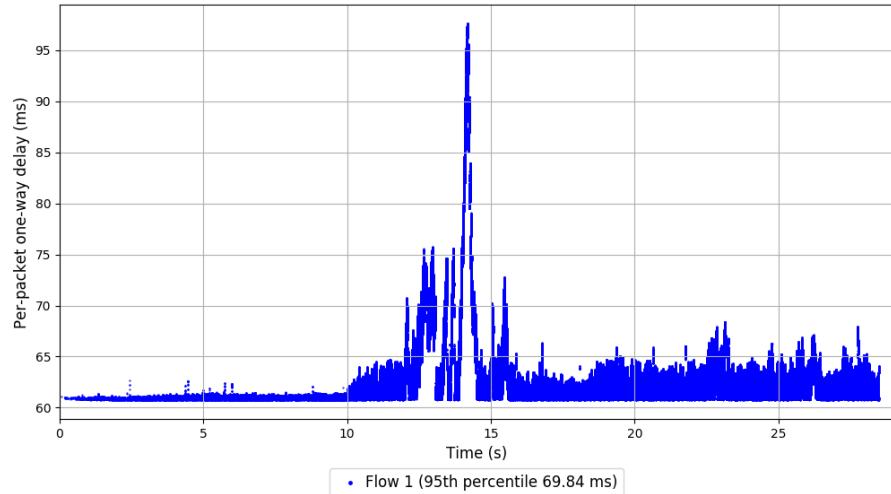
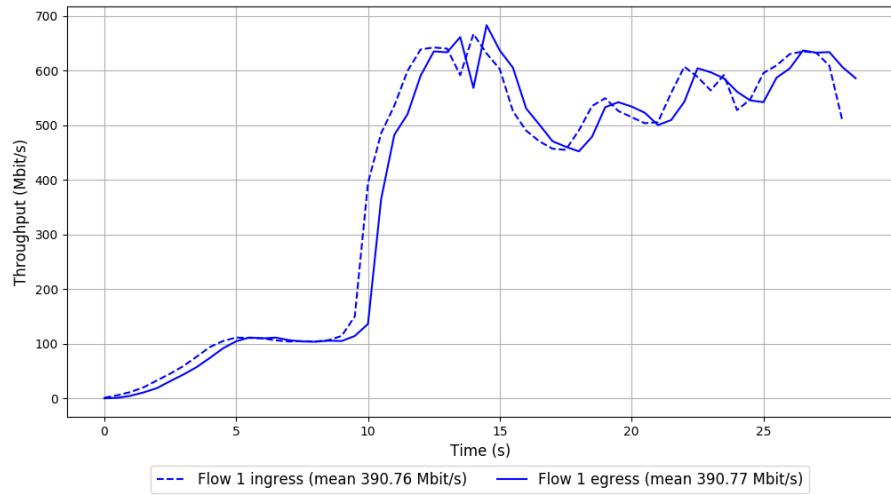


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-01-22 04:27:49
End at: 2019-01-22 04:28:19
Local clock offset: -0.326 ms
Remote clock offset: 0.088 ms

# Below is generated by plot.py at 2019-01-22 08:01:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 390.77 Mbit/s
95th percentile per-packet one-way delay: 69.841 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 390.77 Mbit/s
95th percentile per-packet one-way delay: 69.841 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-MusesD — Data Link

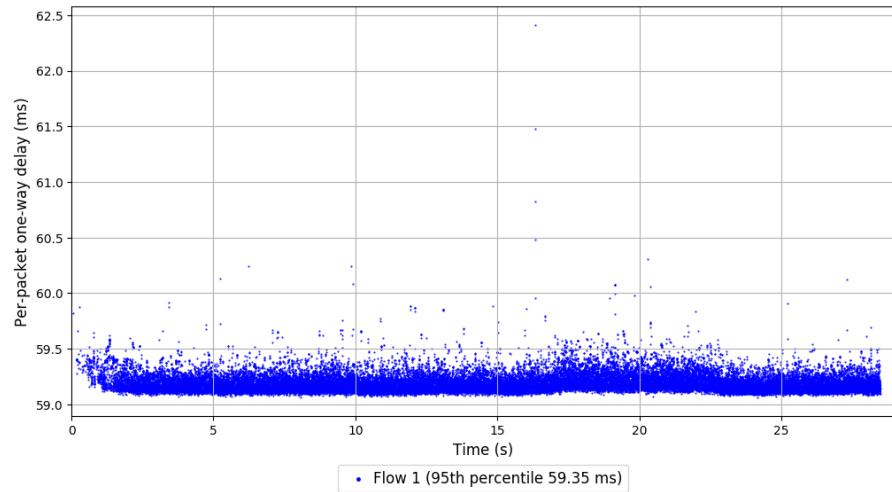
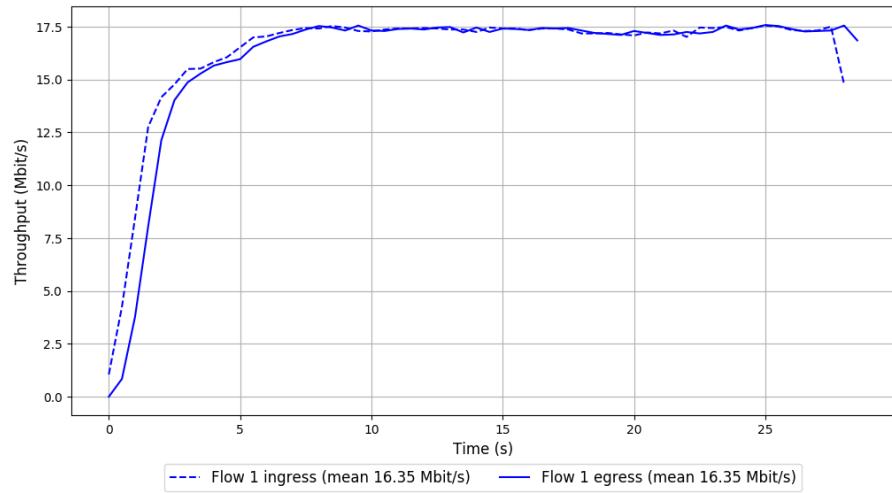


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-01-22 05:02:19
End at: 2019-01-22 05:02:49
Local clock offset: -0.087 ms
Remote clock offset: -1.386 ms

# Below is generated by plot.py at 2019-01-22 08:01:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 16.35 Mbit/s
95th percentile per-packet one-way delay: 59.355 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 16.35 Mbit/s
95th percentile per-packet one-way delay: 59.355 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-MusesD — Data Link

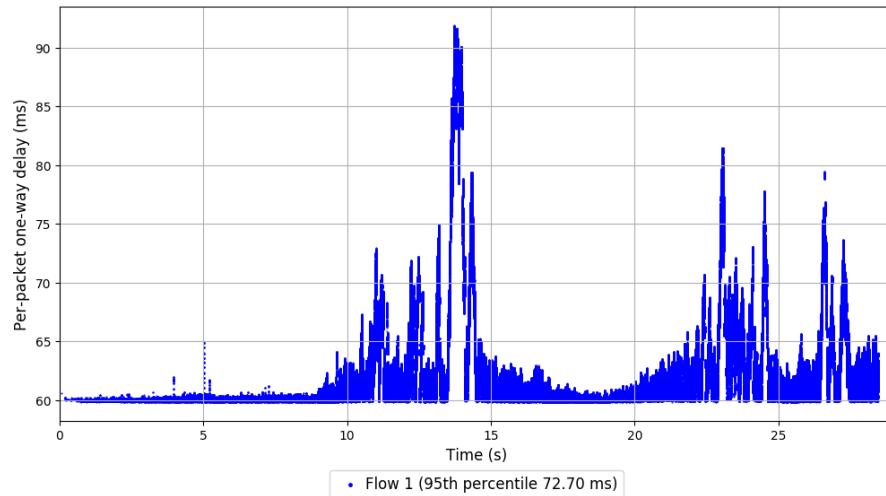
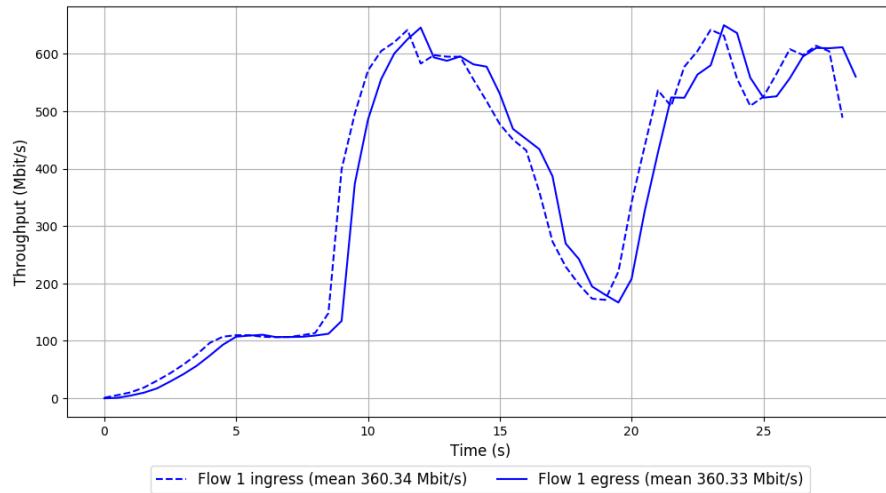


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-01-22 05:35:49
End at: 2019-01-22 05:36:19
Local clock offset: 0.421 ms
Remote clock offset: 0.053 ms

# Below is generated by plot.py at 2019-01-22 08:01:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 360.33 Mbit/s
95th percentile per-packet one-way delay: 72.699 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 360.33 Mbit/s
95th percentile per-packet one-way delay: 72.699 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-MusesD — Data Link

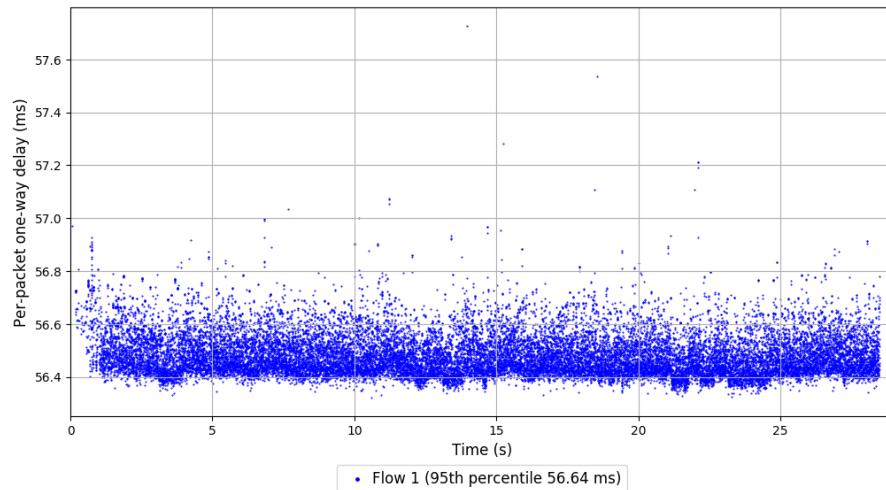
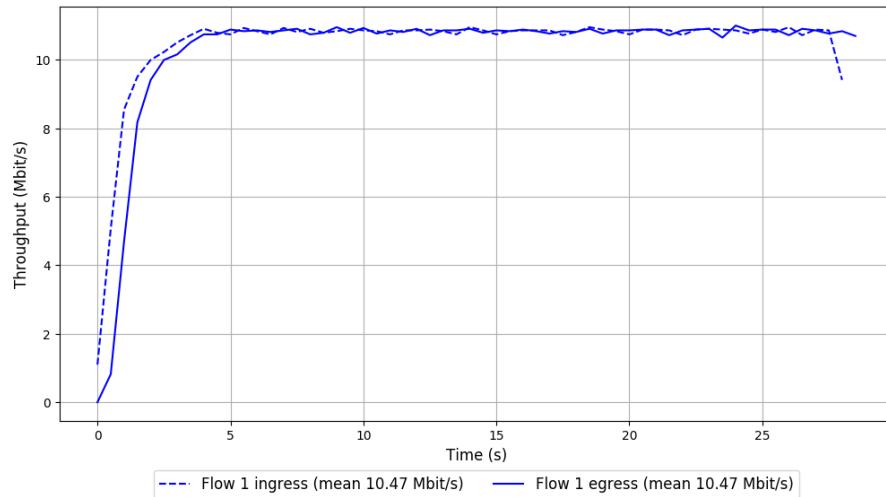


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-01-22 06:09:46
End at: 2019-01-22 06:10:16
Local clock offset: 0.374 ms
Remote clock offset: -0.595 ms

# Below is generated by plot.py at 2019-01-22 08:01:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.47 Mbit/s
95th percentile per-packet one-way delay: 56.639 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.47 Mbit/s
95th percentile per-packet one-way delay: 56.639 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

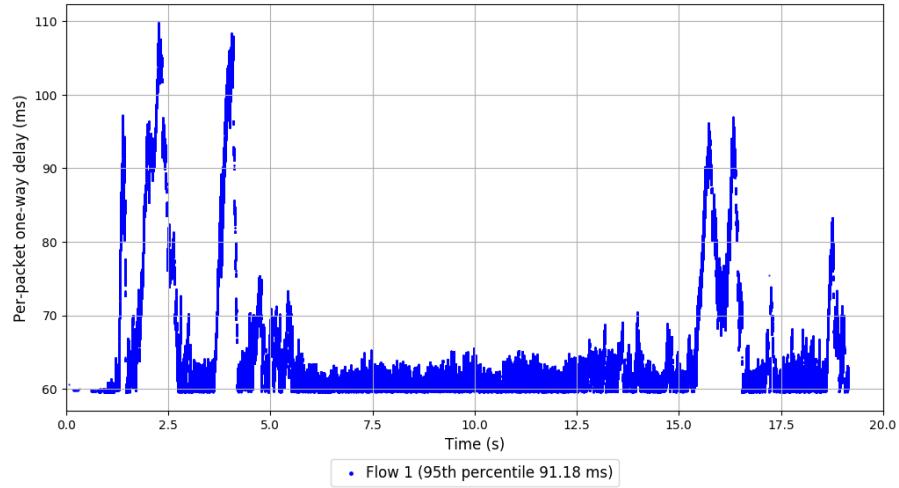
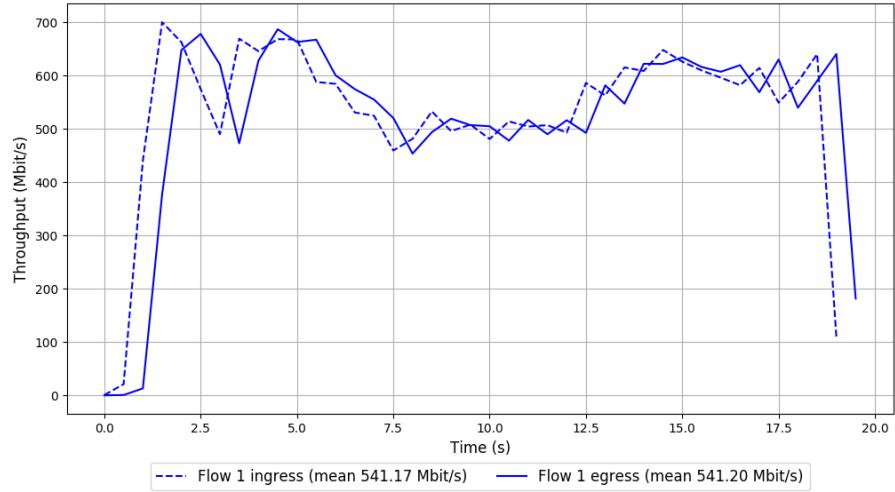
Start at: 2019-01-22 03:35:33

End at: 2019-01-22 03:36:03

Local clock offset: -0.046 ms

Remote clock offset: -0.81 ms

Run 1: Report of Indigo-MusesT — Data Link

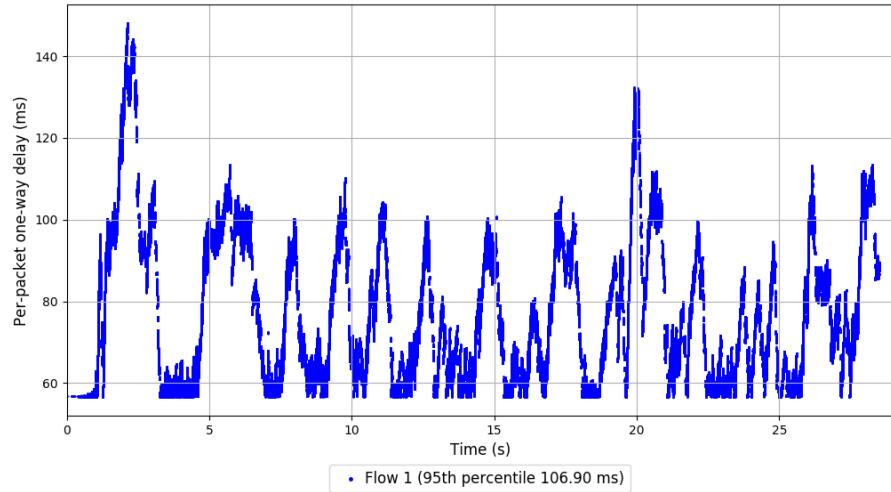
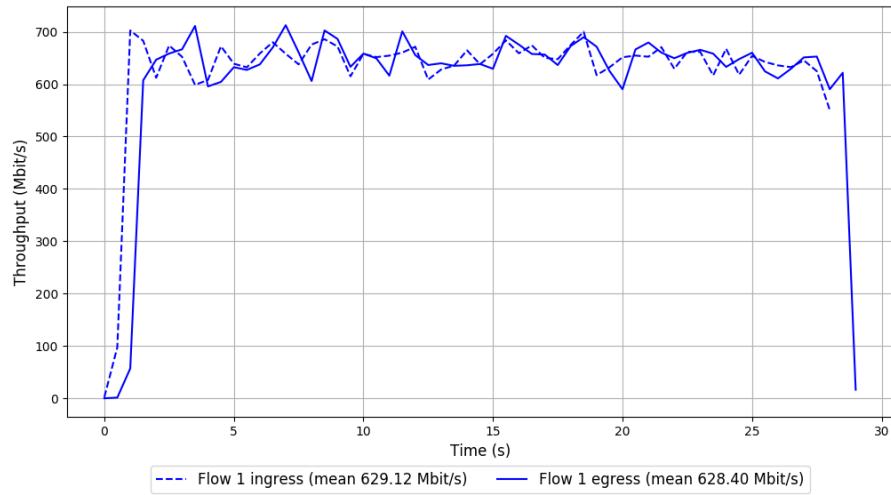


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-01-22 04:07:36
End at: 2019-01-22 04:08:06
Local clock offset: 0.355 ms
Remote clock offset: 0.069 ms

# Below is generated by plot.py at 2019-01-22 08:09:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 628.40 Mbit/s
95th percentile per-packet one-way delay: 106.901 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 628.40 Mbit/s
95th percentile per-packet one-way delay: 106.901 ms
Loss rate: 0.10%
```

Run 2: Report of Indigo-MusesT — Data Link

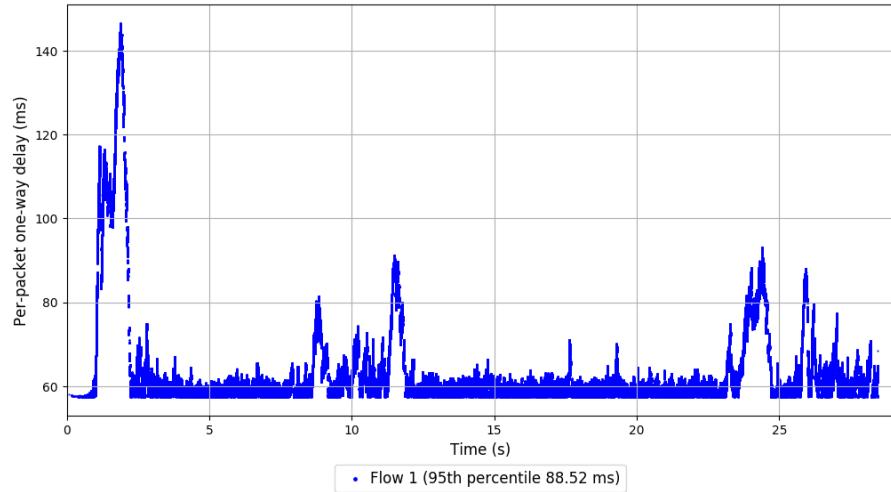
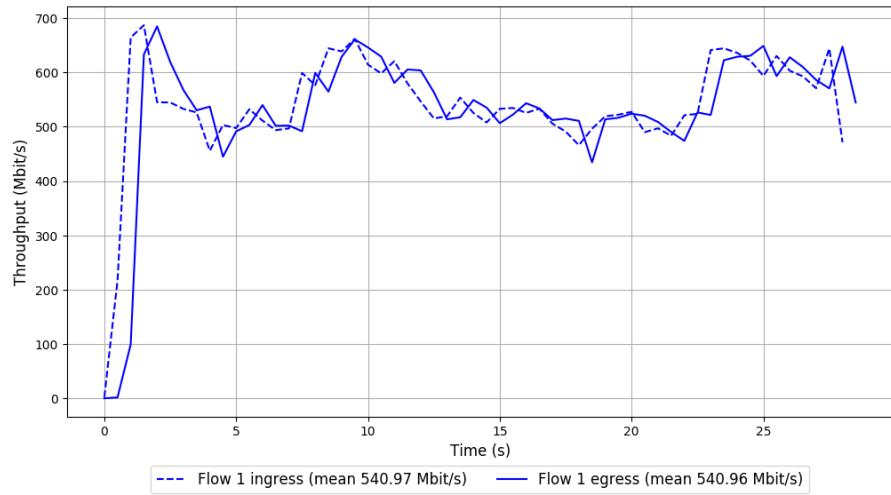


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-01-22 04:42:10
End at: 2019-01-22 04:42:40
Local clock offset: -0.274 ms
Remote clock offset: 0.176 ms

# Below is generated by plot.py at 2019-01-22 08:09:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 540.96 Mbit/s
95th percentile per-packet one-way delay: 88.524 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 540.96 Mbit/s
95th percentile per-packet one-way delay: 88.524 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-MusesT — Data Link

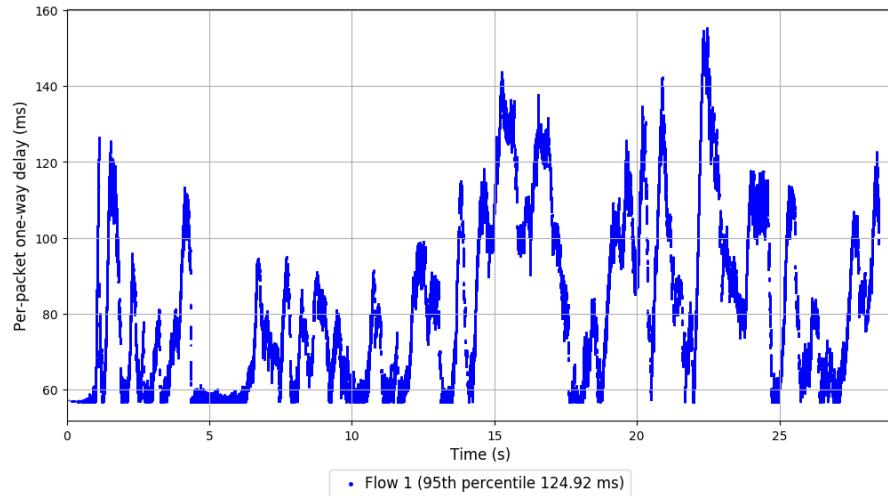
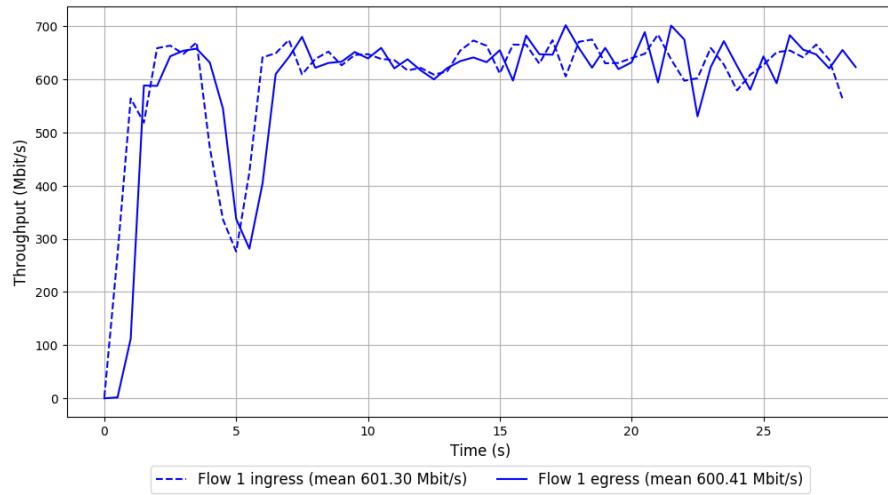


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-01-22 05:15:52
End at: 2019-01-22 05:16:22
Local clock offset: 0.201 ms
Remote clock offset: -0.143 ms

# Below is generated by plot.py at 2019-01-22 08:11:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 600.41 Mbit/s
95th percentile per-packet one-way delay: 124.921 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 600.41 Mbit/s
95th percentile per-packet one-way delay: 124.921 ms
Loss rate: 0.14%
```

Run 4: Report of Indigo-MusesT — Data Link

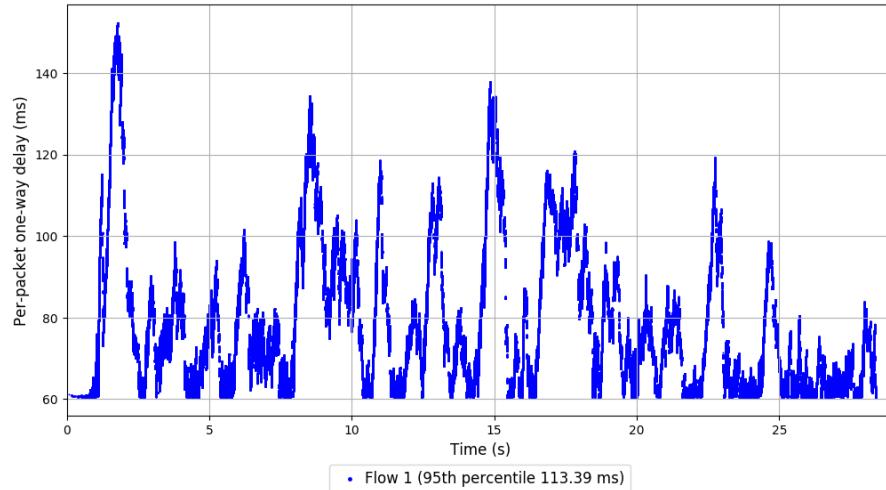
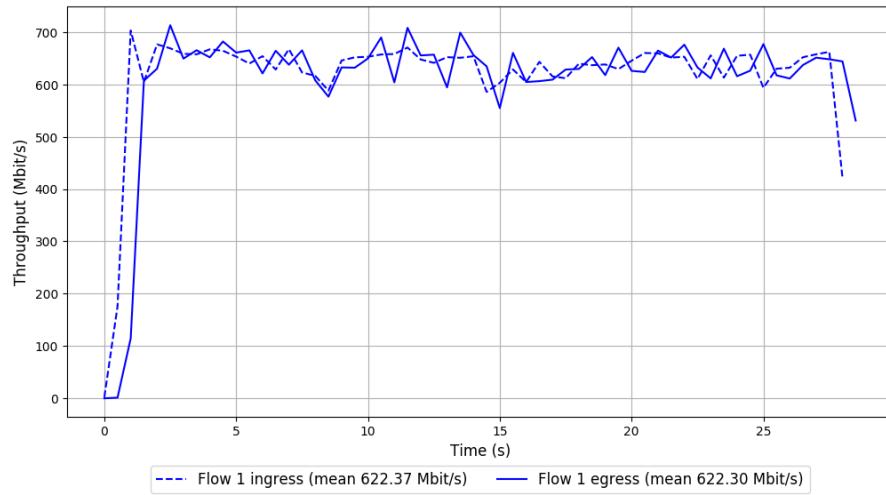


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-01-22 05:50:39
End at: 2019-01-22 05:51:09
Local clock offset: 0.205 ms
Remote clock offset: 0.79 ms

# Below is generated by plot.py at 2019-01-22 08:12:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 622.30 Mbit/s
95th percentile per-packet one-way delay: 113.395 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 622.30 Mbit/s
95th percentile per-packet one-way delay: 113.395 ms
Loss rate: 0.01%
```

Run 5: Report of Indigo-MusesT — Data Link

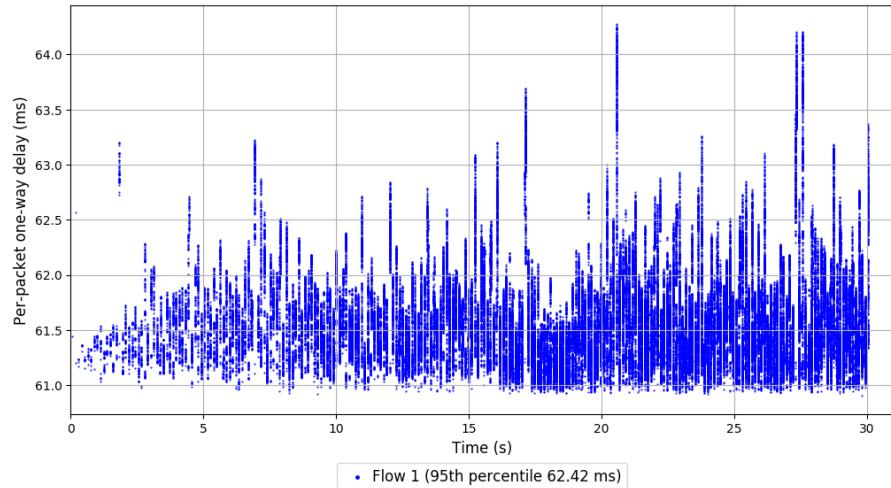
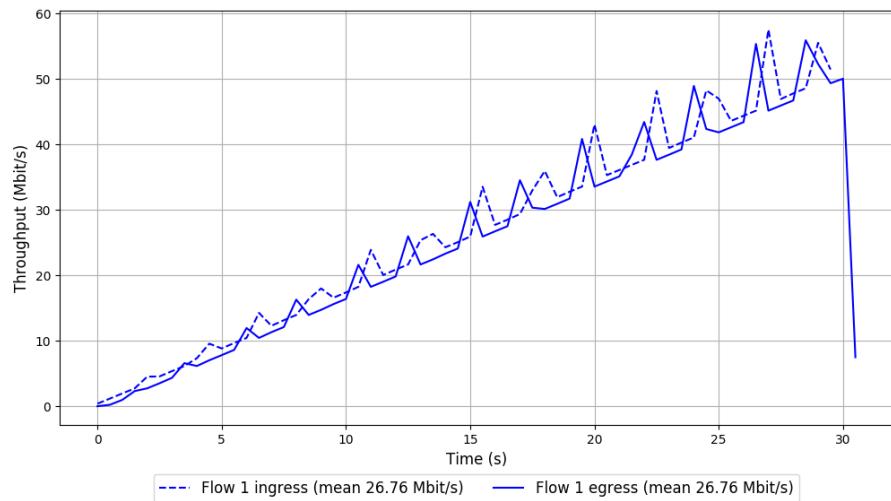


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-01-22 03:55:27
End at: 2019-01-22 03:55:57
Local clock offset: -0.032 ms
Remote clock offset: 0.653 ms

# Below is generated by plot.py at 2019-01-22 08:12:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.76 Mbit/s
95th percentile per-packet one-way delay: 62.423 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 26.76 Mbit/s
95th percentile per-packet one-way delay: 62.423 ms
Loss rate: 0.01%
```

Run 1: Report of LEDBAT — Data Link

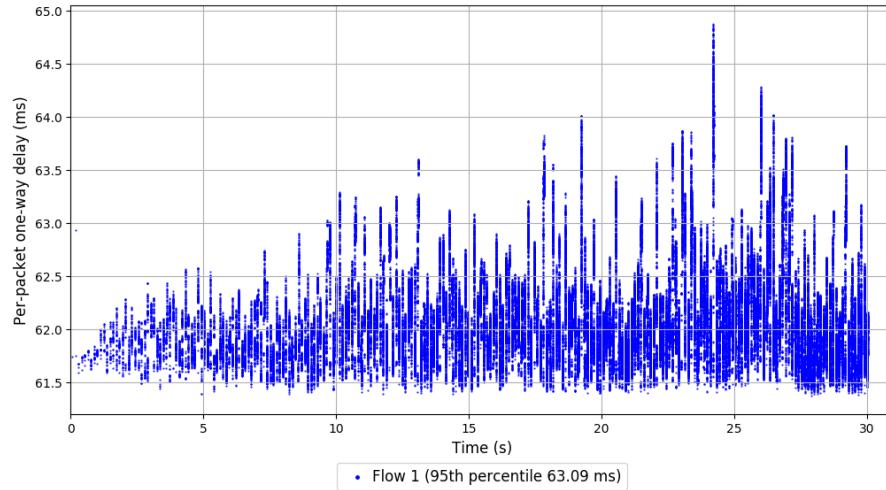
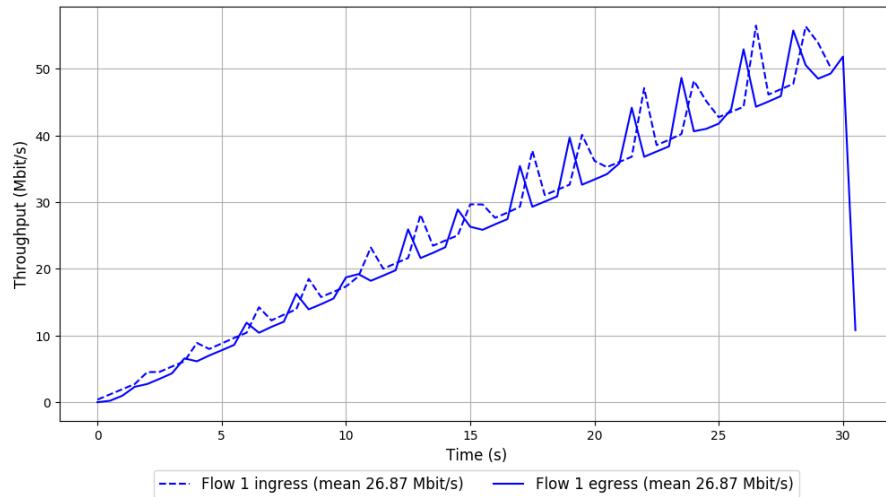


Run 2: Statistics of LEDBAT

```
Start at: 2019-01-22 04:29:28
End at: 2019-01-22 04:29:58
Local clock offset: -0.495 ms
Remote clock offset: 0.692 ms

# Below is generated by plot.py at 2019-01-22 08:12:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.87 Mbit/s
95th percentile per-packet one-way delay: 63.085 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 26.87 Mbit/s
95th percentile per-packet one-way delay: 63.085 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link

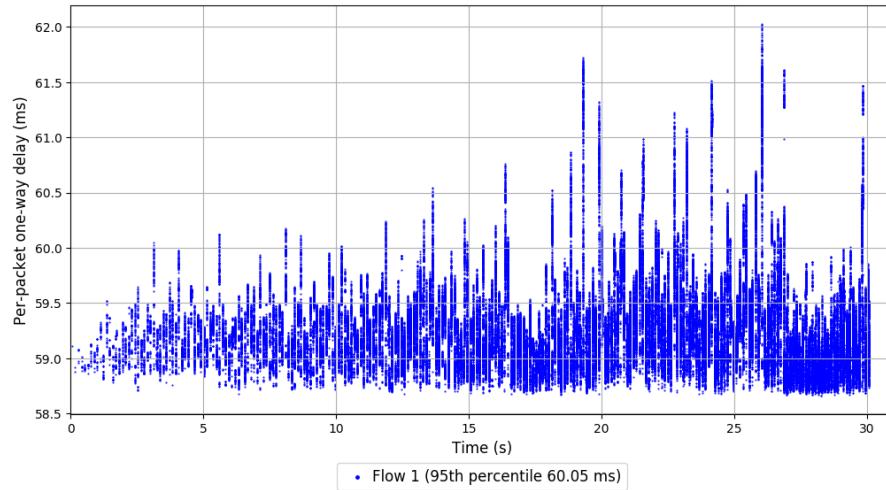
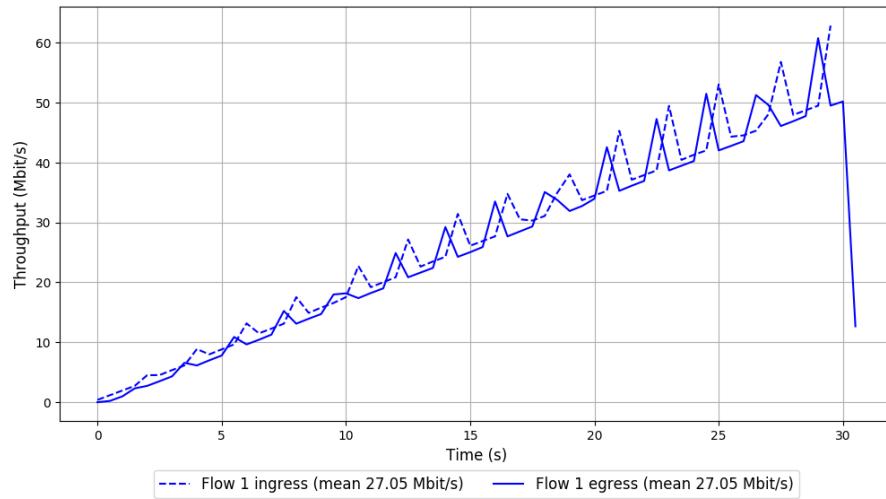


Run 3: Statistics of LEDBAT

```
Start at: 2019-01-22 05:03:28
End at: 2019-01-22 05:03:58
Local clock offset: 0.183 ms
Remote clock offset: -1.165 ms

# Below is generated by plot.py at 2019-01-22 08:12:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 27.05 Mbit/s
95th percentile per-packet one-way delay: 60.049 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 27.05 Mbit/s
95th percentile per-packet one-way delay: 60.049 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link

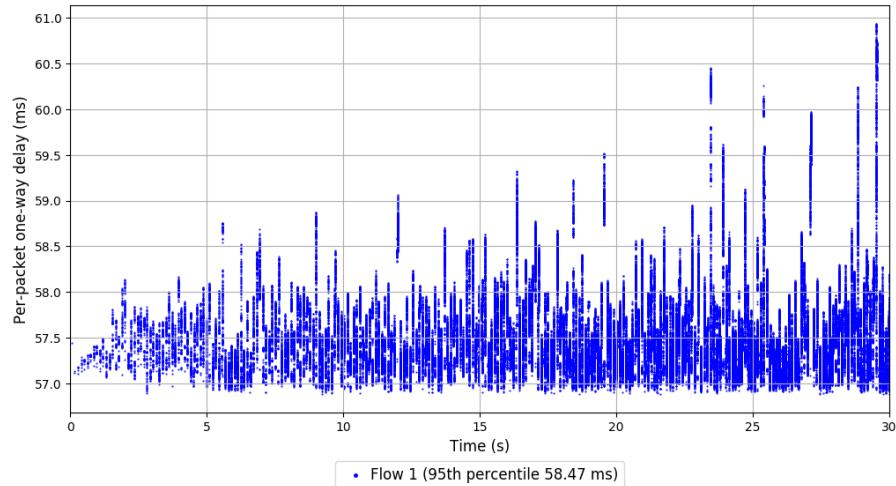
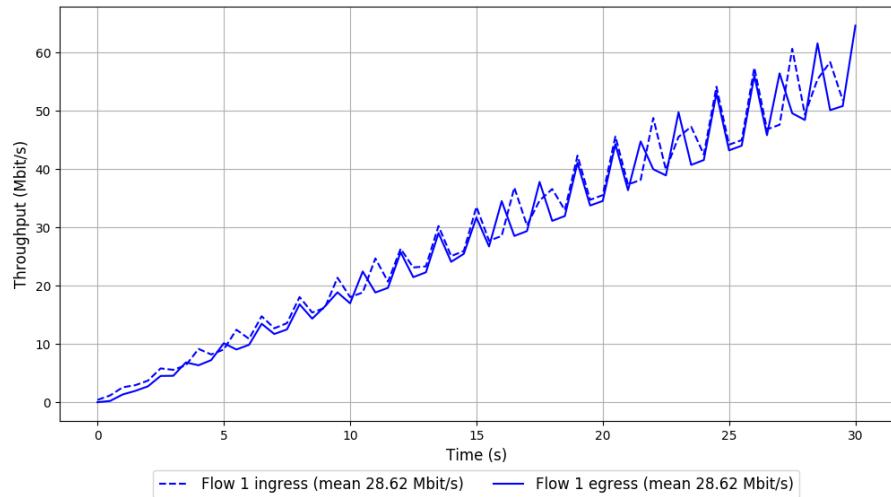


Run 4: Statistics of LEDBAT

```
Start at: 2019-01-22 05:37:24
End at: 2019-01-22 05:37:54
Local clock offset: -0.477 ms
Remote clock offset: -0.214 ms

# Below is generated by plot.py at 2019-01-22 08:12:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.62 Mbit/s
95th percentile per-packet one-way delay: 58.465 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 28.62 Mbit/s
95th percentile per-packet one-way delay: 58.465 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link

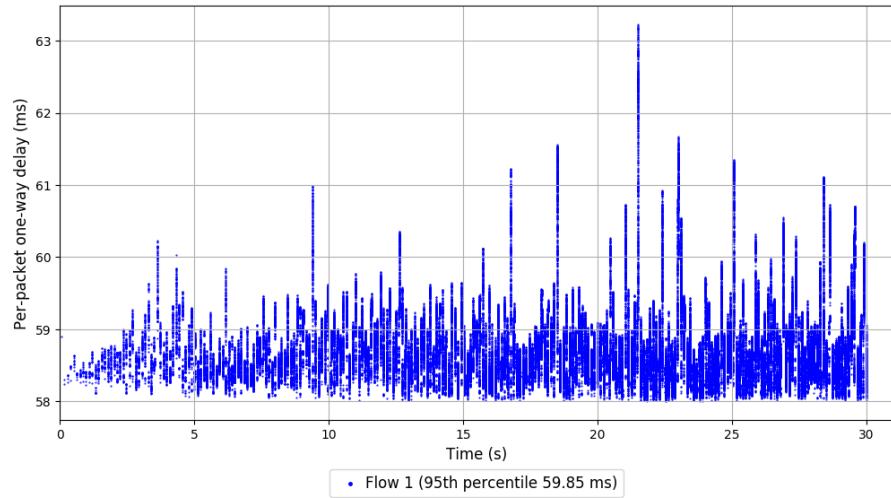
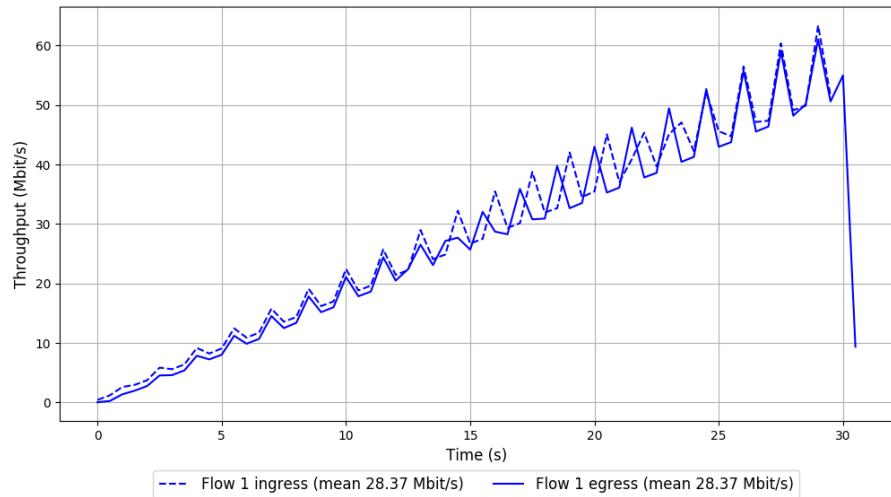


Run 5: Statistics of LEDBAT

```
Start at: 2019-01-22 06:10:55
End at: 2019-01-22 06:11:25
Local clock offset: -0.219 ms
Remote clock offset: 0.756 ms

# Below is generated by plot.py at 2019-01-22 08:12:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.37 Mbit/s
95th percentile per-packet one-way delay: 59.848 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 28.37 Mbit/s
95th percentile per-packet one-way delay: 59.848 ms
Loss rate: 0.00%
```

Run 5: Report of LEDBAT — Data Link

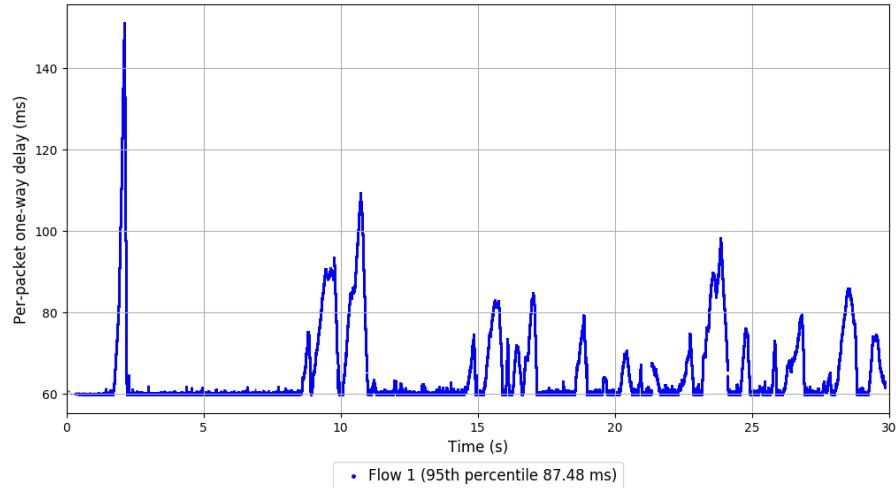
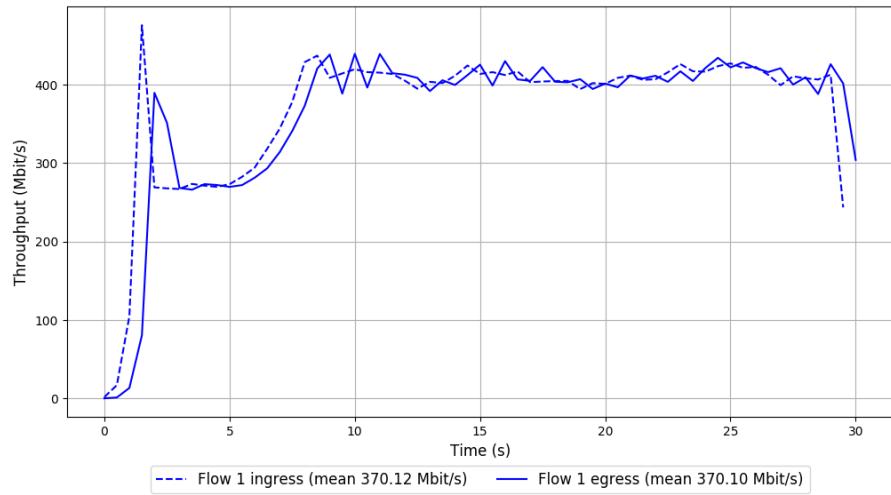


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-01-22 03:44:30
End at: 2019-01-22 03:45:00
Local clock offset: 0.359 ms
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2019-01-22 08:19:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 370.10 Mbit/s
95th percentile per-packet one-way delay: 87.476 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 370.10 Mbit/s
95th percentile per-packet one-way delay: 87.476 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Allegro — Data Link

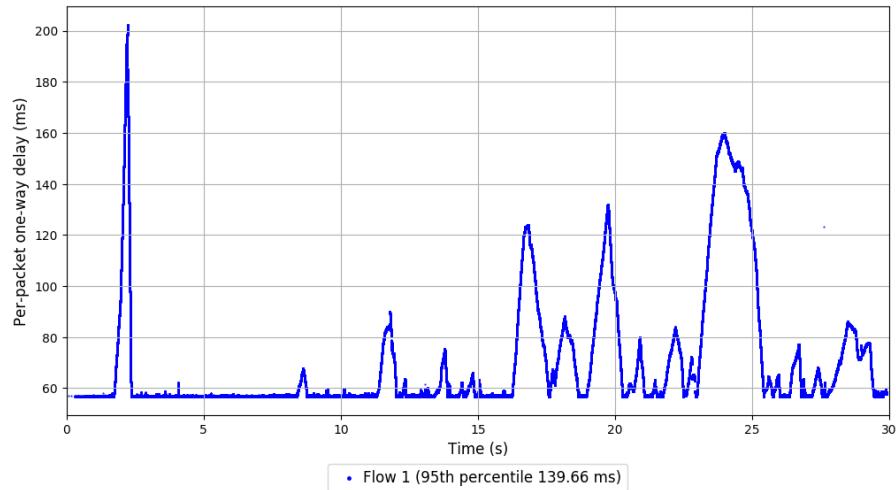
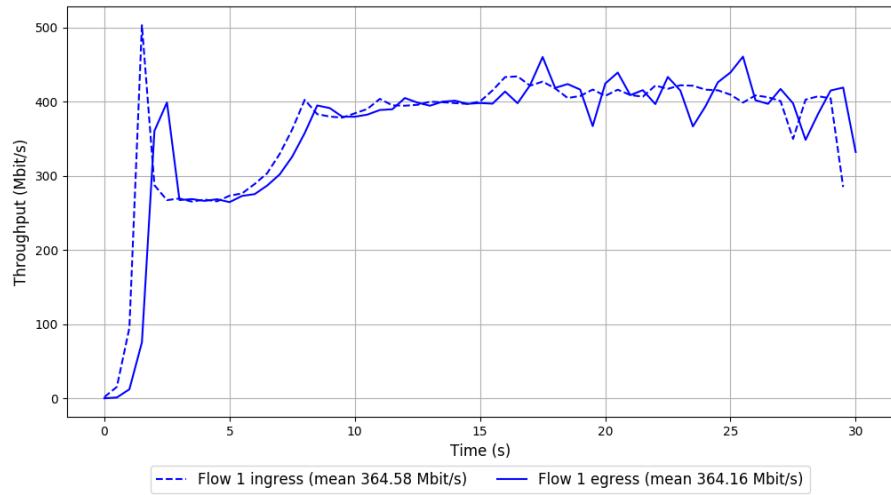


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-01-22 04:17:31
End at: 2019-01-22 04:18:02
Local clock offset: -0.059 ms
Remote clock offset: -0.293 ms

# Below is generated by plot.py at 2019-01-22 08:19:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 364.16 Mbit/s
95th percentile per-packet one-way delay: 139.658 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 364.16 Mbit/s
95th percentile per-packet one-way delay: 139.658 ms
Loss rate: 0.11%
```

Run 2: Report of PCC-Allegro — Data Link

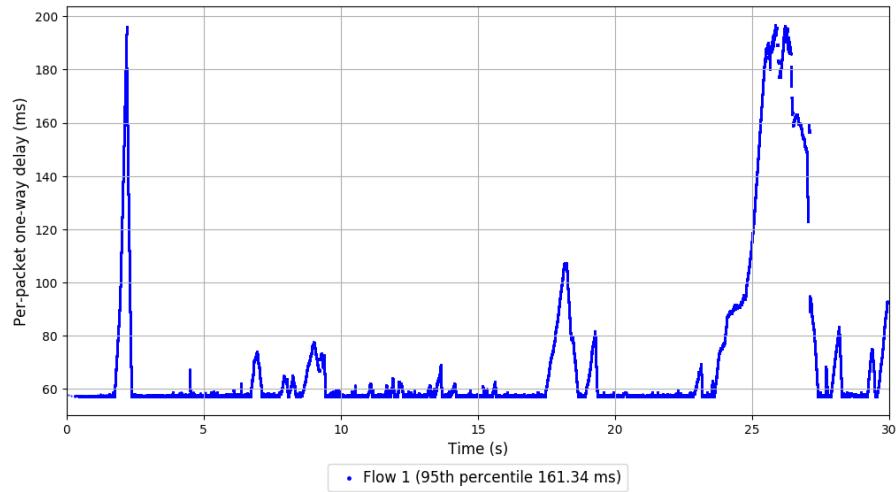
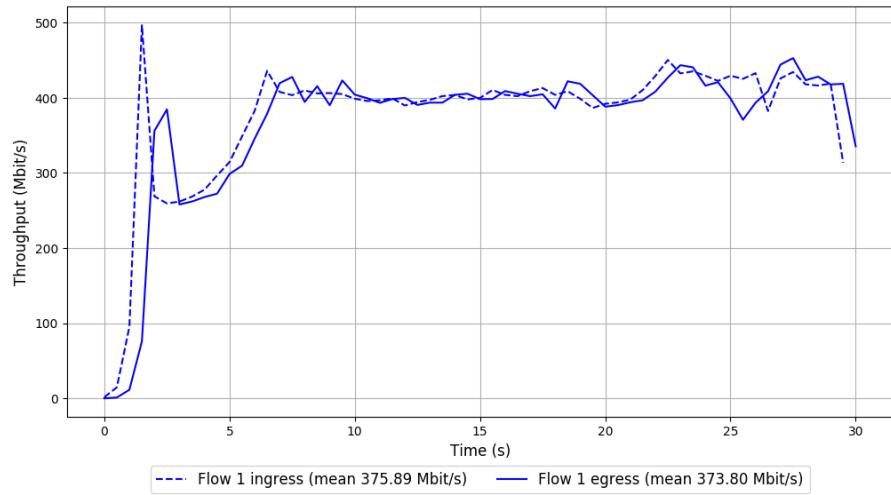


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-01-22 04:52:49
End at: 2019-01-22 04:53:19
Local clock offset: -0.233 ms
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2019-01-22 08:21:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 373.80 Mbit/s
95th percentile per-packet one-way delay: 161.344 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 373.80 Mbit/s
95th percentile per-packet one-way delay: 161.344 ms
Loss rate: 0.54%
```

Run 3: Report of PCC-Allegro — Data Link

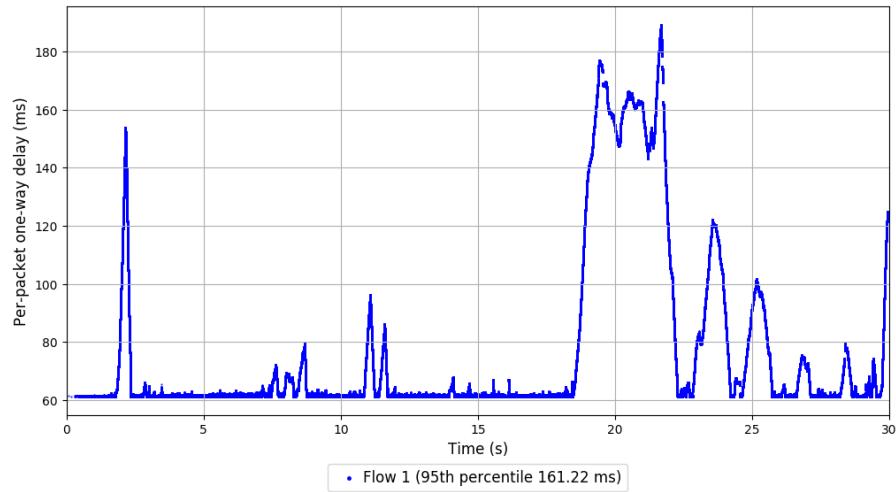
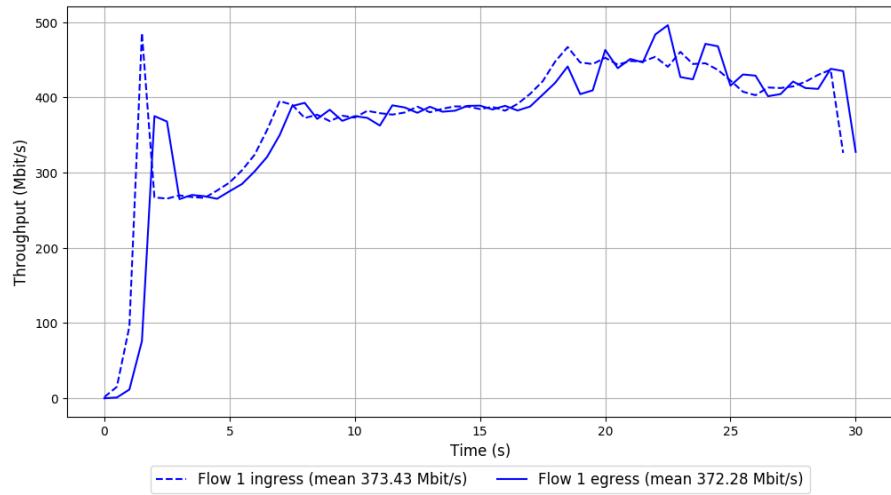


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-01-22 05:25:54
End at: 2019-01-22 05:26:24
Local clock offset: 0.39 ms
Remote clock offset: 1.447 ms

# Below is generated by plot.py at 2019-01-22 08:21:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 372.28 Mbit/s
95th percentile per-packet one-way delay: 161.225 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 372.28 Mbit/s
95th percentile per-packet one-way delay: 161.225 ms
Loss rate: 0.30%
```

Run 4: Report of PCC-Allegro — Data Link

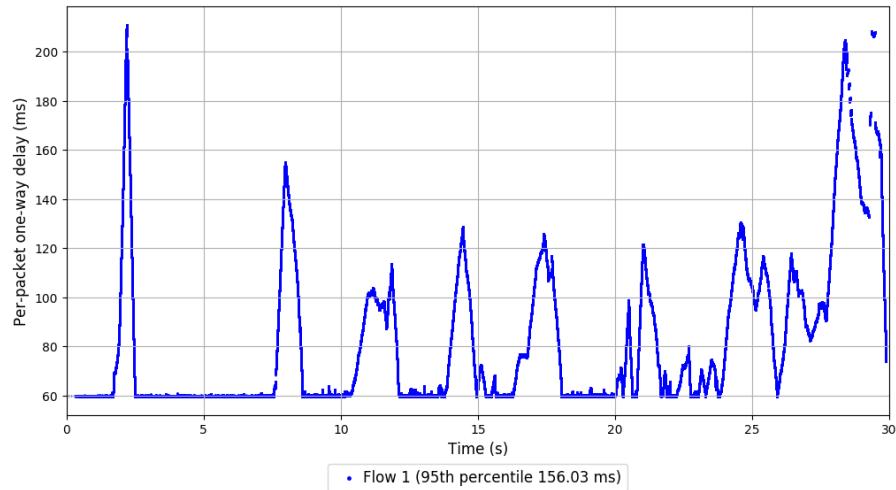
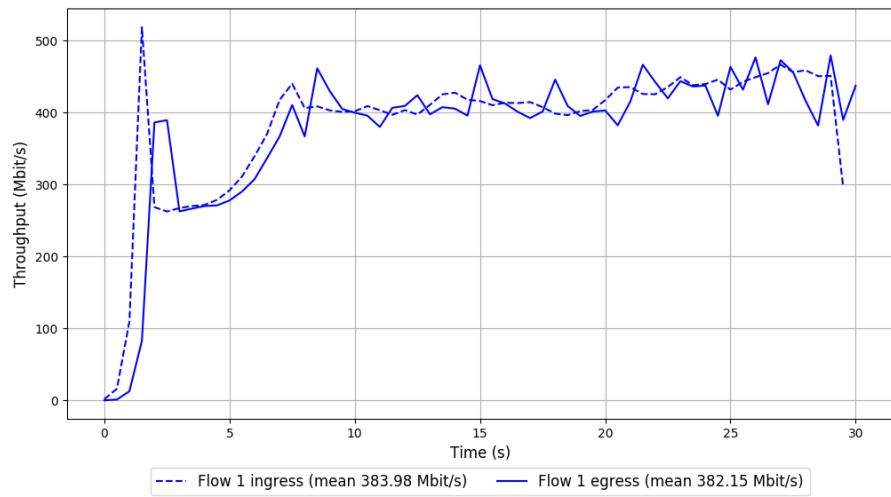


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-01-22 06:00:21
End at: 2019-01-22 06:00:51
Local clock offset: 0.037 ms
Remote clock offset: -0.676 ms

# Below is generated by plot.py at 2019-01-22 08:27:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 382.15 Mbit/s
95th percentile per-packet one-way delay: 156.031 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 382.15 Mbit/s
95th percentile per-packet one-way delay: 156.031 ms
Loss rate: 0.47%
```

Run 5: Report of PCC-Allegro — Data Link

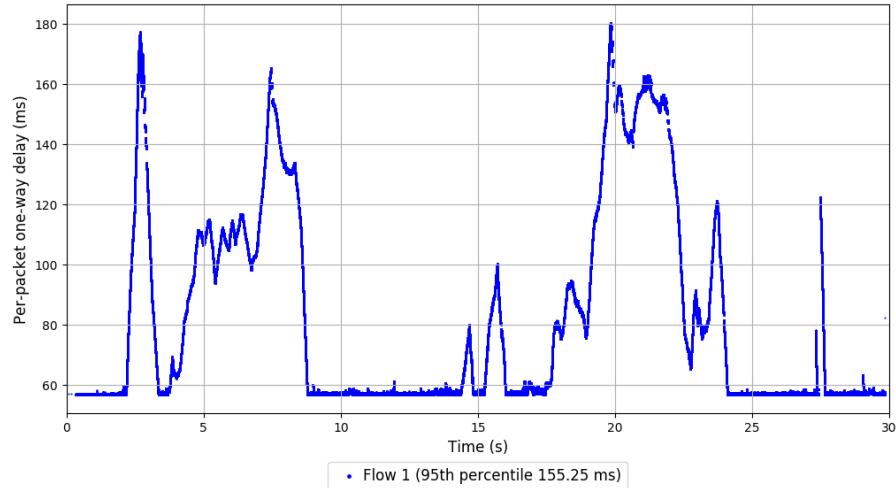
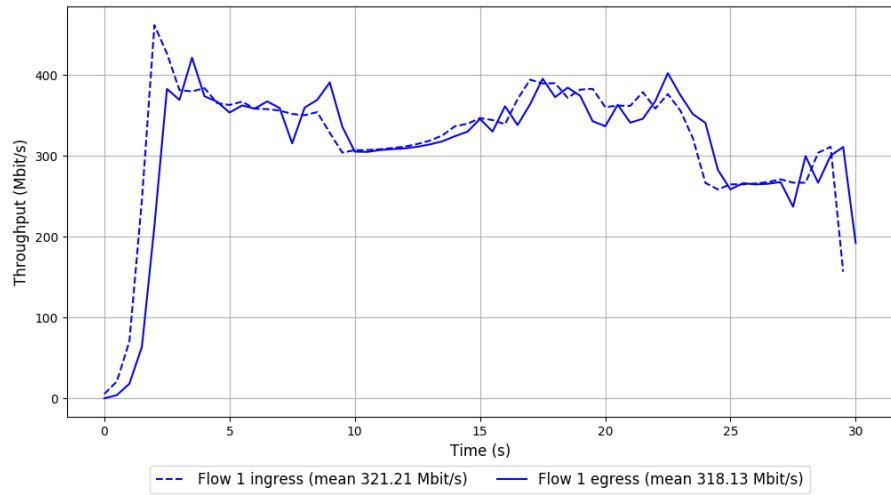


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-01-22 04:01:08
End at: 2019-01-22 04:01:38
Local clock offset: -0.034 ms
Remote clock offset: -0.222 ms

# Below is generated by plot.py at 2019-01-22 08:27:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 318.13 Mbit/s
95th percentile per-packet one-way delay: 155.253 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 318.13 Mbit/s
95th percentile per-packet one-way delay: 155.253 ms
Loss rate: 1.03%
```

Run 1: Report of PCC-Expr — Data Link

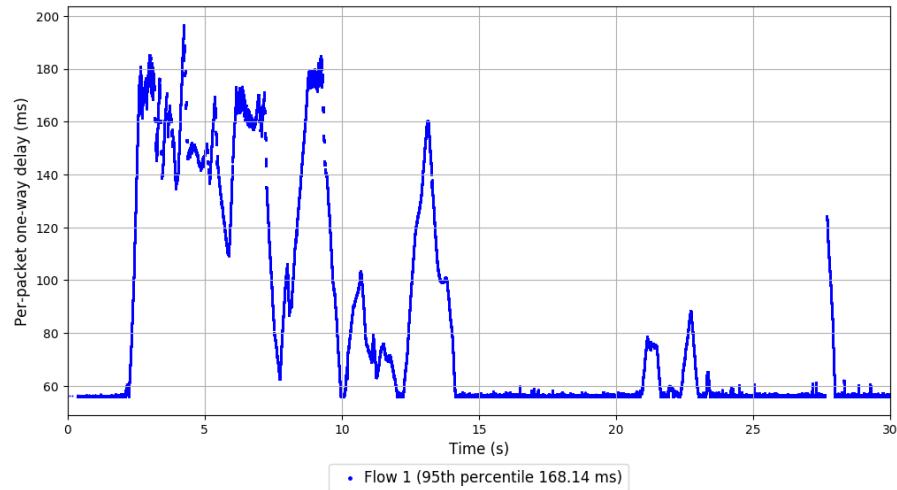
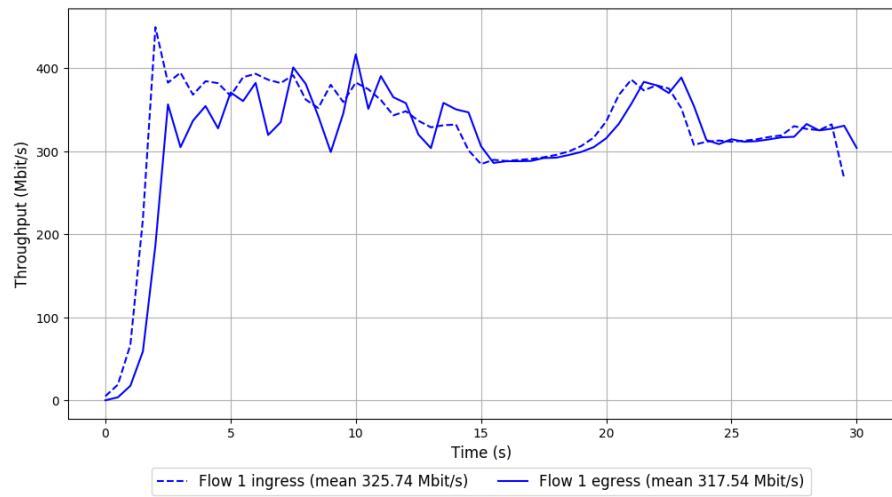


Run 2: Statistics of PCC-Expr

```
Start at: 2019-01-22 04:35:24
End at: 2019-01-22 04:35:54
Local clock offset: 0.491 ms
Remote clock offset: -0.379 ms

# Below is generated by plot.py at 2019-01-22 08:27:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 317.54 Mbit/s
95th percentile per-packet one-way delay: 168.143 ms
Loss rate: 2.52%
-- Flow 1:
Average throughput: 317.54 Mbit/s
95th percentile per-packet one-way delay: 168.143 ms
Loss rate: 2.52%
```

Run 2: Report of PCC-Expr — Data Link

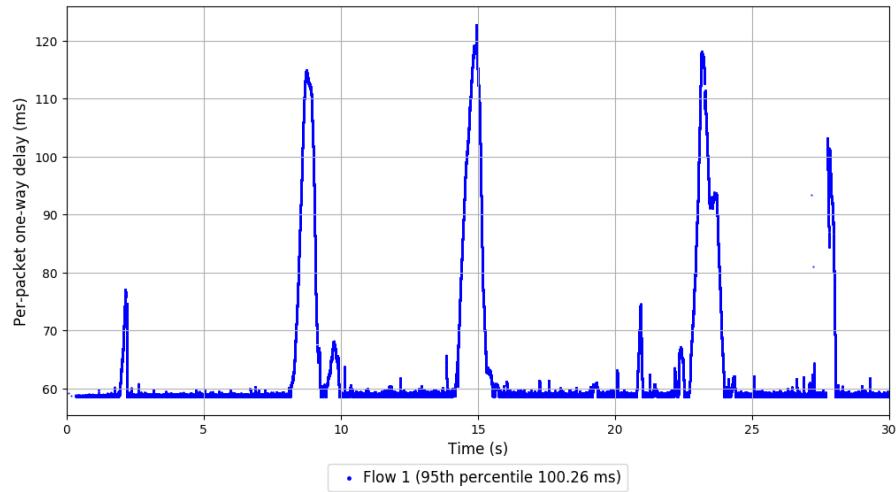
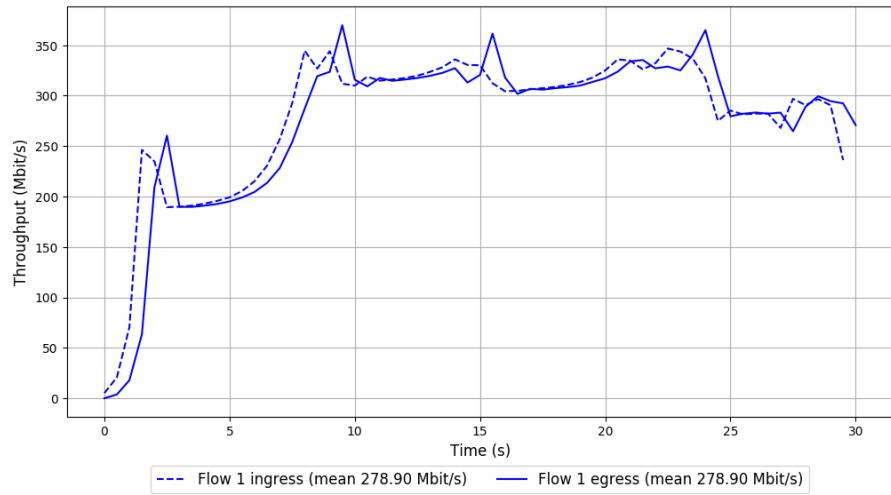


Run 3: Statistics of PCC-Expr

```
Start at: 2019-01-22 05:09:22
End at: 2019-01-22 05:09:52
Local clock offset: -0.291 ms
Remote clock offset: 1.327 ms

# Below is generated by plot.py at 2019-01-22 08:27:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 278.90 Mbit/s
95th percentile per-packet one-way delay: 100.262 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 278.90 Mbit/s
95th percentile per-packet one-way delay: 100.262 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Expr — Data Link

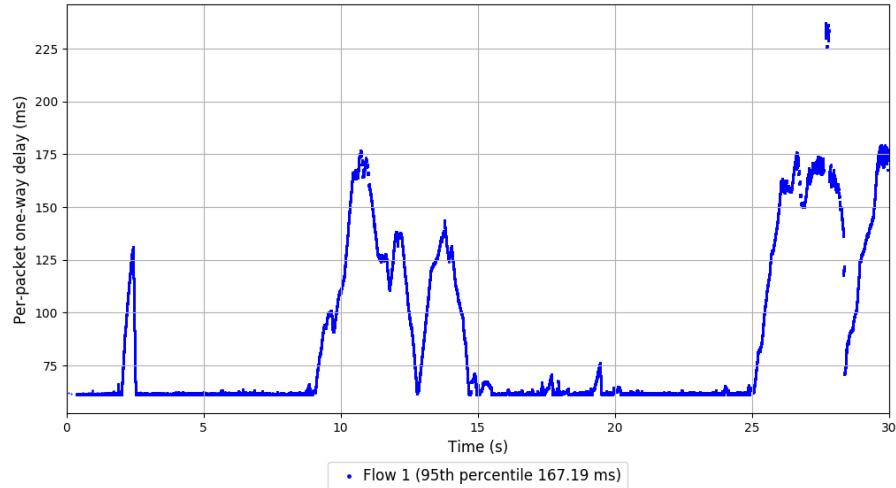
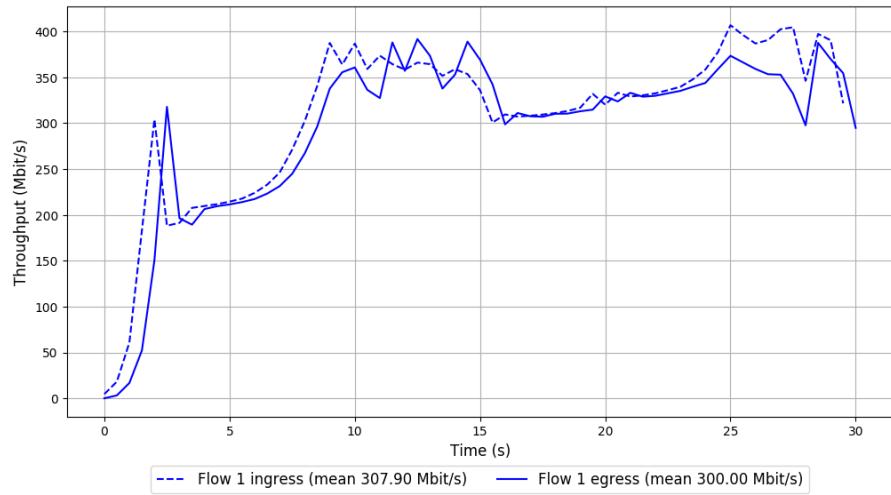


Run 4: Statistics of PCC-Expr

```
Start at: 2019-01-22 05:43:26
End at: 2019-01-22 05:43:56
Local clock offset: 0.222 ms
Remote clock offset: 1.086 ms

# Below is generated by plot.py at 2019-01-22 08:34:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 300.00 Mbit/s
95th percentile per-packet one-way delay: 167.194 ms
Loss rate: 2.57%
-- Flow 1:
Average throughput: 300.00 Mbit/s
95th percentile per-packet one-way delay: 167.194 ms
Loss rate: 2.57%
```

Run 4: Report of PCC-Expr — Data Link

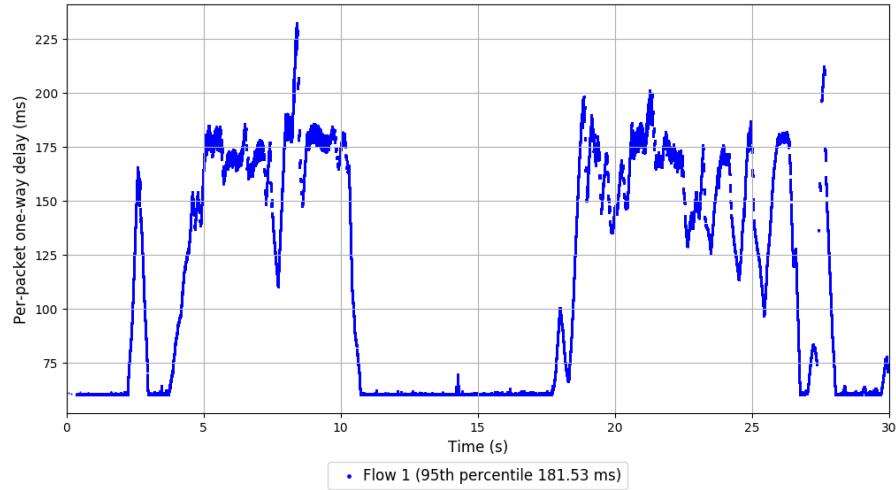
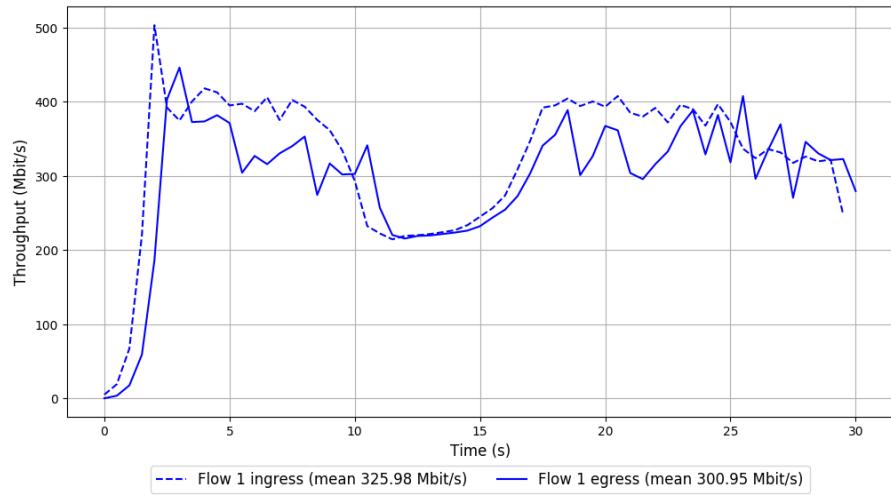


Run 5: Statistics of PCC-Expr

```
Start at: 2019-01-22 06:16:41
End at: 2019-01-22 06:17:11
Local clock offset: -0.016 ms
Remote clock offset: -0.126 ms

# Below is generated by plot.py at 2019-01-22 08:35:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 300.95 Mbit/s
95th percentile per-packet one-way delay: 181.525 ms
Loss rate: 7.68%
-- Flow 1:
Average throughput: 300.95 Mbit/s
95th percentile per-packet one-way delay: 181.525 ms
Loss rate: 7.68%
```

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

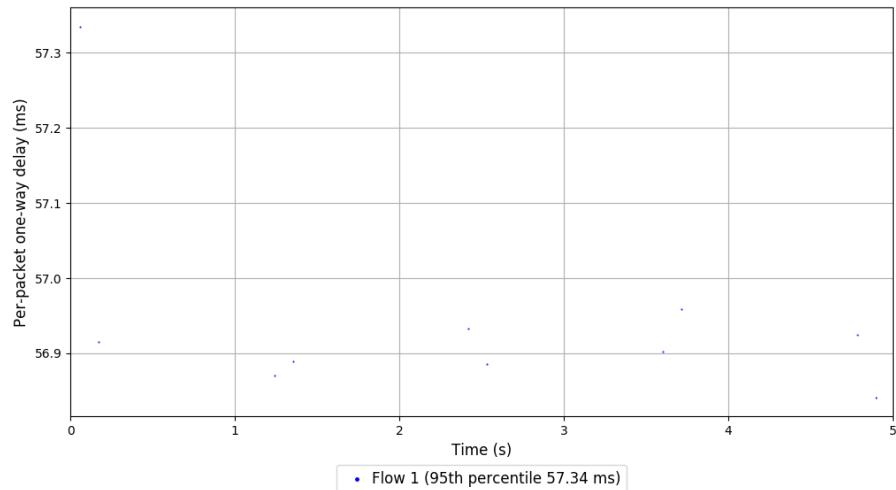
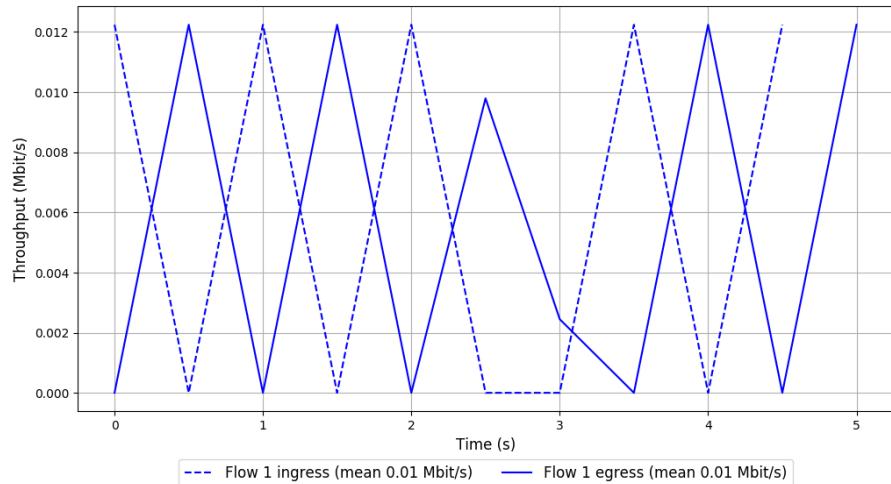
Start at: 2019-01-22 03:38:27

End at: 2019-01-22 03:38:57

Local clock offset: 0.03 ms

Remote clock offset: -0.538 ms

Run 1: Report of QUIC Cubic — Data Link

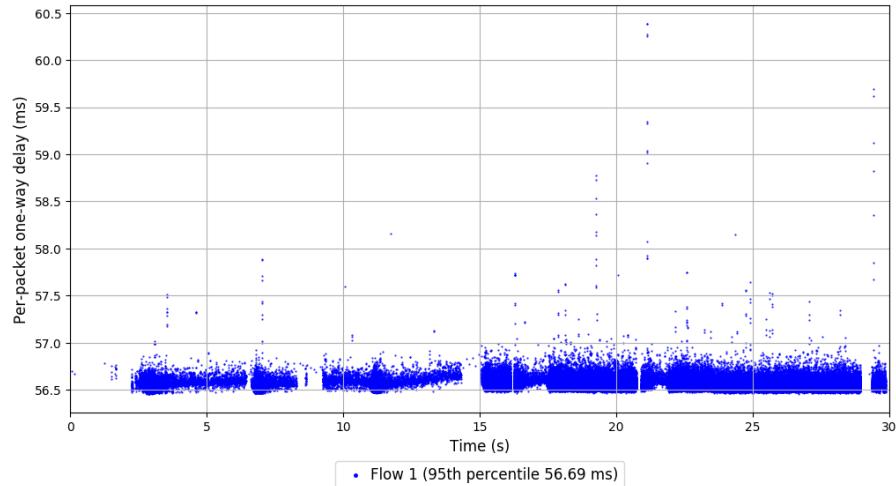
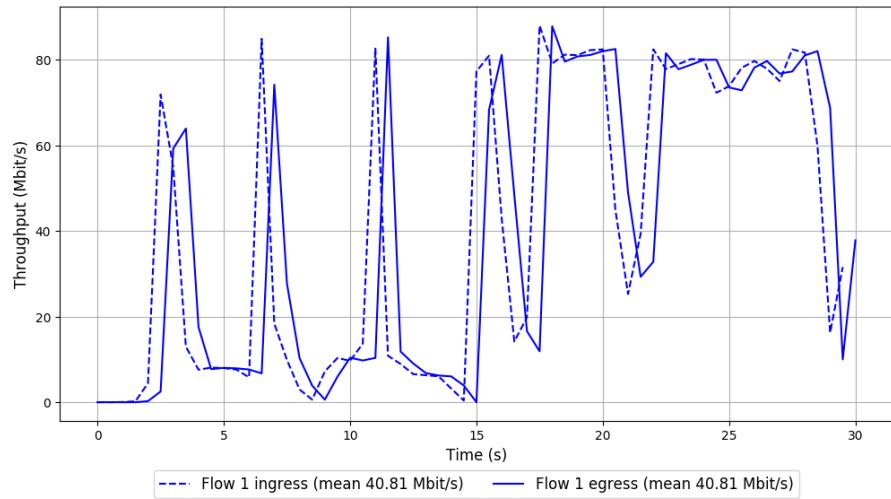


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-01-22 04:11:03
End at: 2019-01-22 04:11:33
Local clock offset: 0.336 ms
Remote clock offset: -0.218 ms

# Below is generated by plot.py at 2019-01-22 08:35:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.81 Mbit/s
95th percentile per-packet one-way delay: 56.686 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 40.81 Mbit/s
95th percentile per-packet one-way delay: 56.686 ms
Loss rate: 0.00%
```

Run 2: Report of QUIC Cubic — Data Link

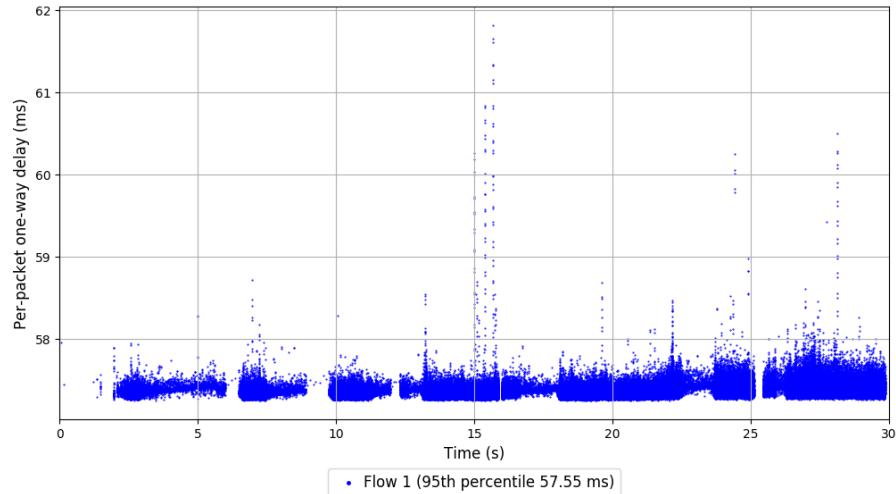
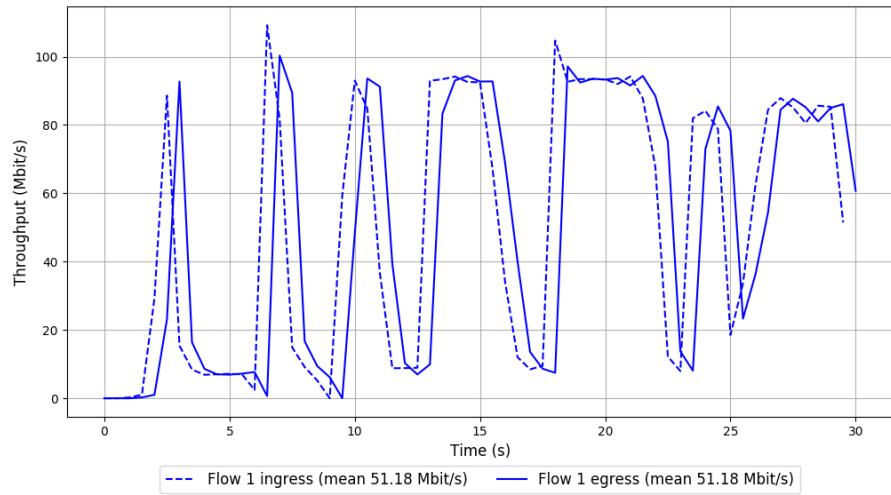


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-01-22 04:45:56
End at: 2019-01-22 04:46:26
Local clock offset: -0.33 ms
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2019-01-22 08:35:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 51.18 Mbit/s
95th percentile per-packet one-way delay: 57.549 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 51.18 Mbit/s
95th percentile per-packet one-way delay: 57.549 ms
Loss rate: 0.00%
```

Run 3: Report of QUIC Cubic — Data Link

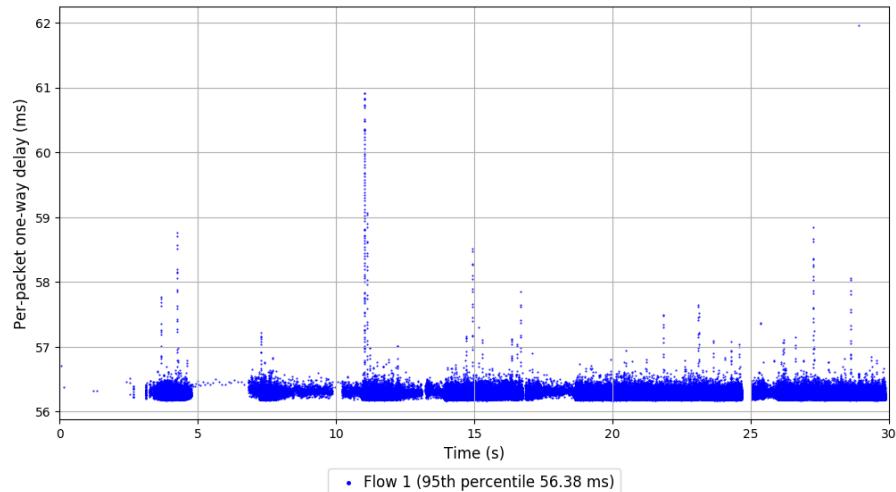
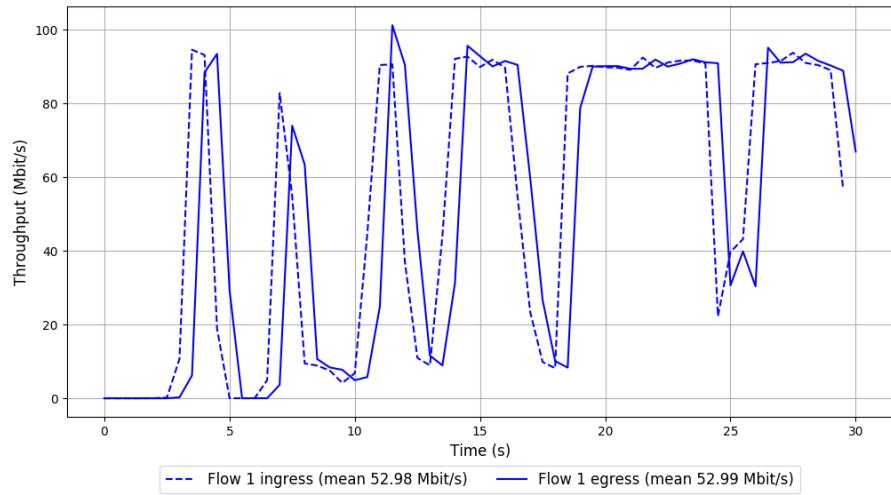


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-01-22 05:19:11
End at: 2019-01-22 05:19:41
Local clock offset: -0.474 ms
Remote clock offset: -1.19 ms

# Below is generated by plot.py at 2019-01-22 08:35:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.99 Mbit/s
95th percentile per-packet one-way delay: 56.382 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 52.99 Mbit/s
95th percentile per-packet one-way delay: 56.382 ms
Loss rate: 0.00%
```

Run 4: Report of QUIC Cubic — Data Link

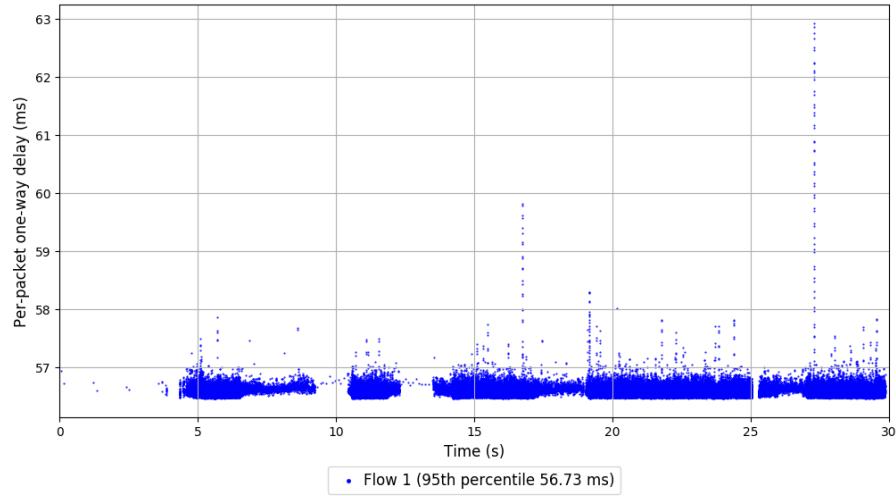
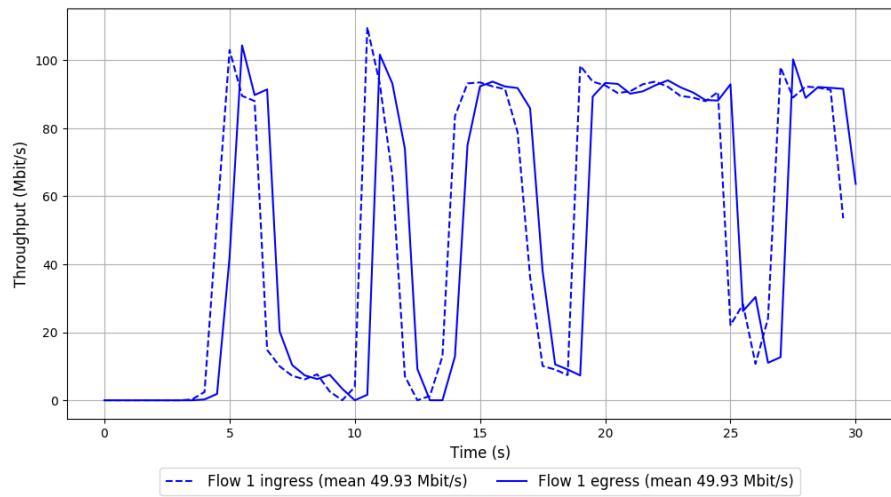


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-01-22 05:54:04
End at: 2019-01-22 05:54:34
Local clock offset: 0.152 ms
Remote clock offset: -0.582 ms

# Below is generated by plot.py at 2019-01-22 08:35:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.93 Mbit/s
95th percentile per-packet one-way delay: 56.730 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 49.93 Mbit/s
95th percentile per-packet one-way delay: 56.730 ms
Loss rate: 0.00%
```

Run 5: Report of QUIC Cubic — Data Link

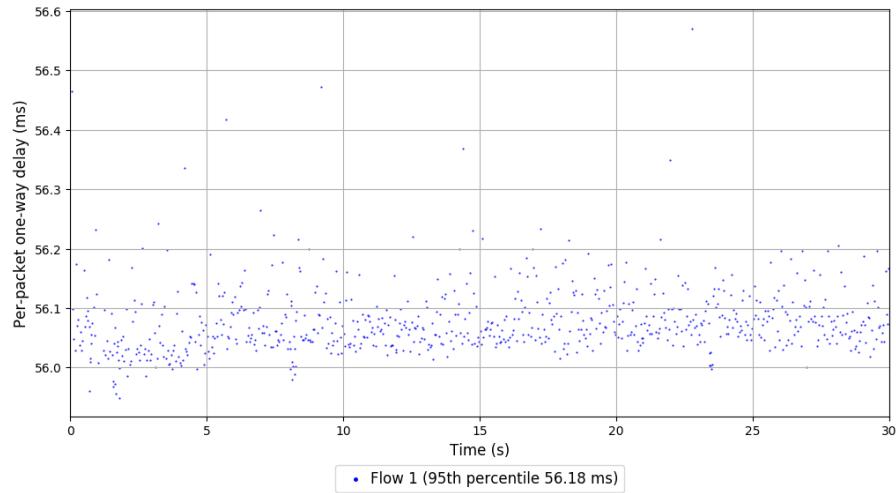
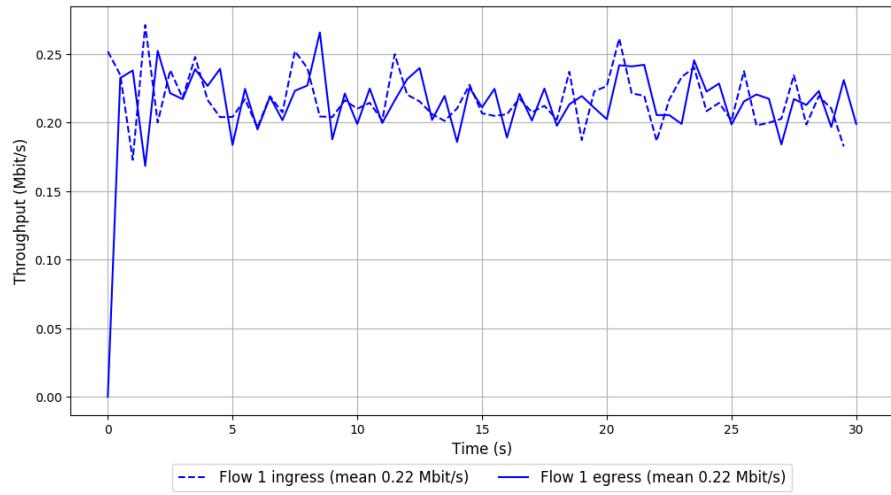


Run 1: Statistics of SCReAM

```
Start at: 2019-01-22 03:34:25
End at: 2019-01-22 03:34:55
Local clock offset: 0.376 ms
Remote clock offset: -0.793 ms

# Below is generated by plot.py at 2019-01-22 08:35:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.177 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.177 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

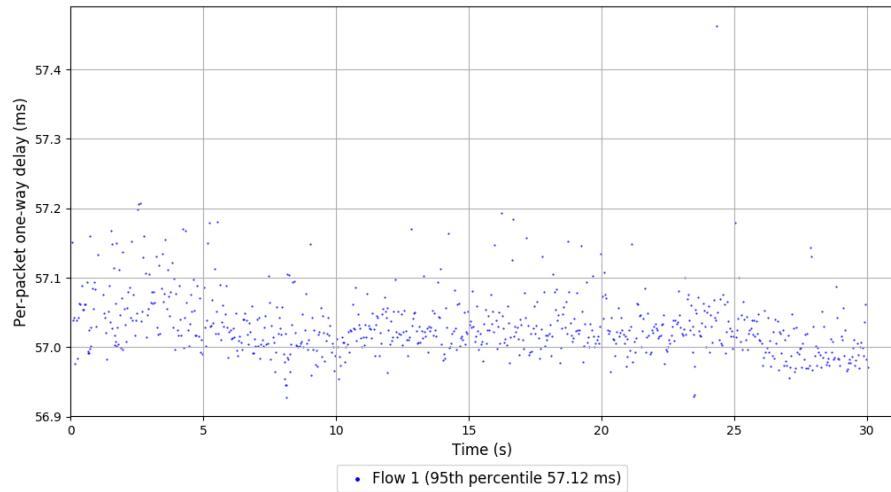
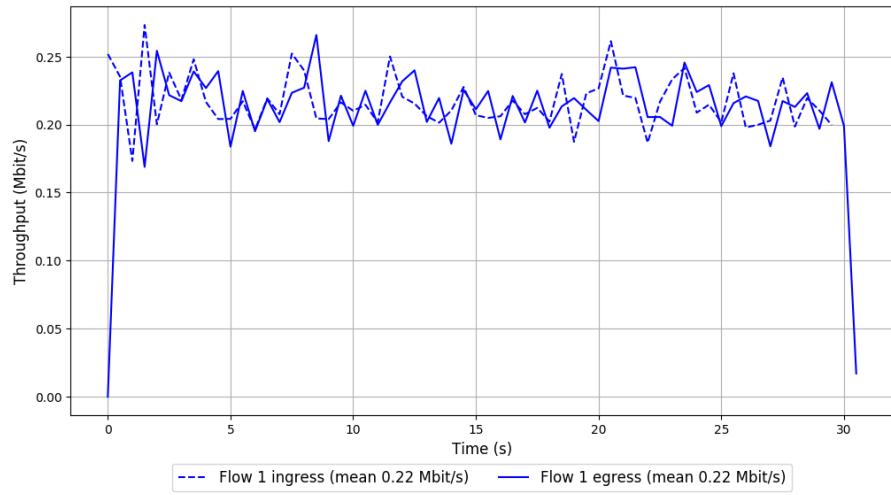


Run 2: Statistics of SCReAM

```
Start at: 2019-01-22 04:06:28
End at: 2019-01-22 04:06:58
Local clock offset: 0.385 ms
Remote clock offset: 0.083 ms

# Below is generated by plot.py at 2019-01-22 08:35:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.121 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.121 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

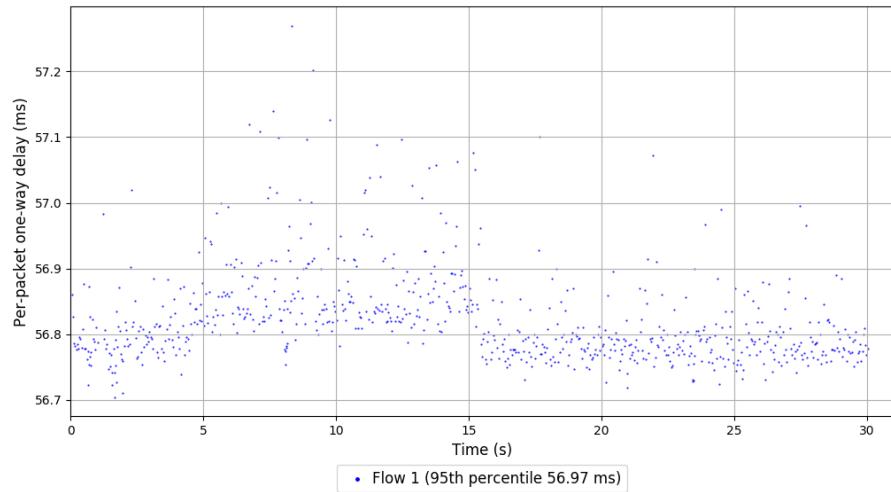
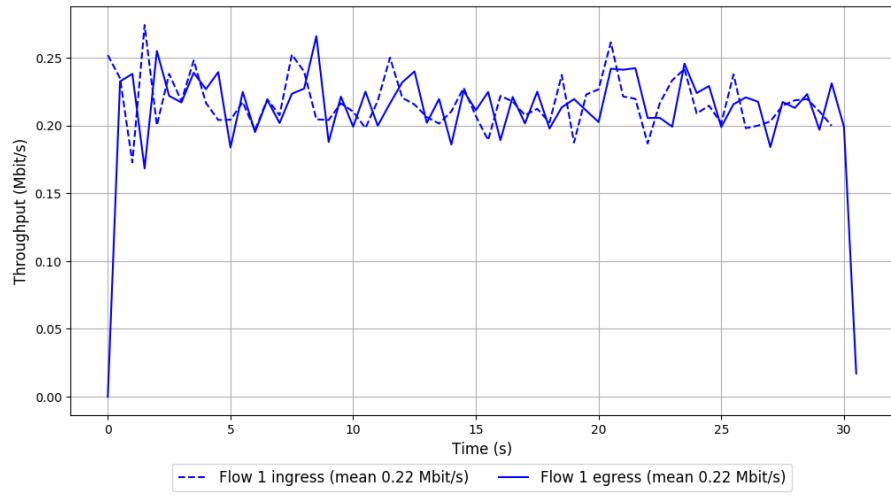


Run 3: Statistics of SCReAM

```
Start at: 2019-01-22 04:41:02
End at: 2019-01-22 04:41:32
Local clock offset: 0.467 ms
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2019-01-22 08:35:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.967 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.967 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

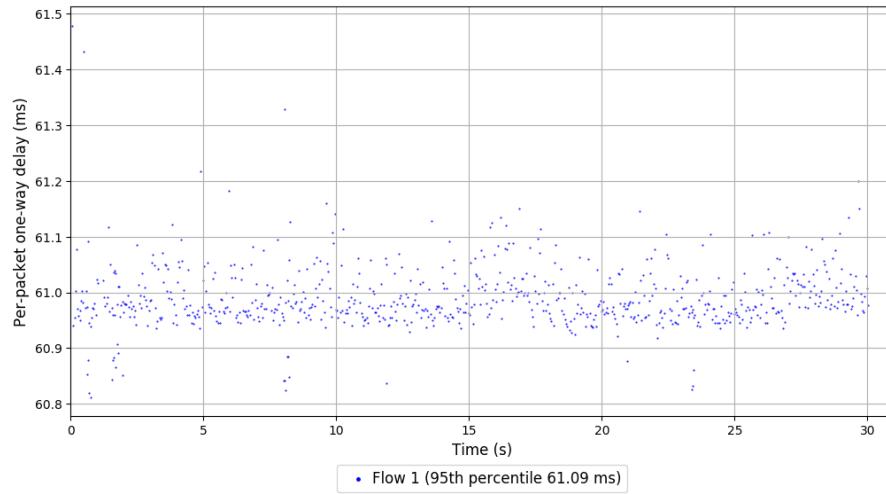
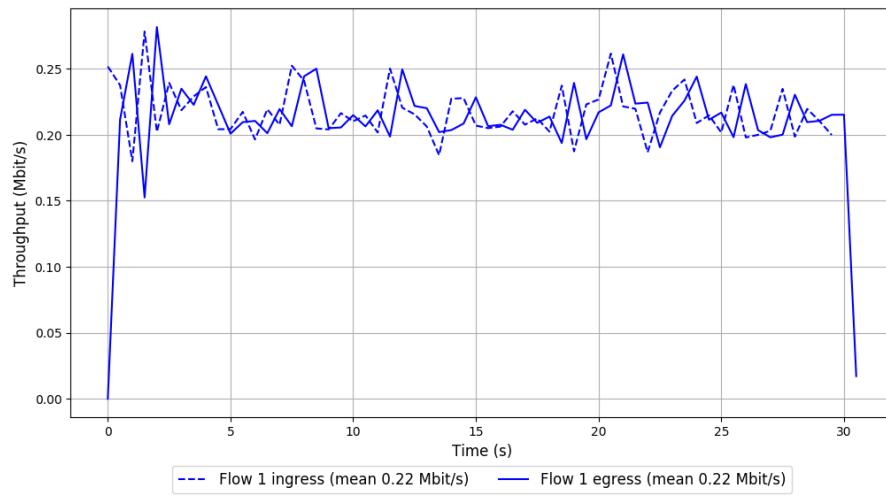


Run 4: Statistics of SCReAM

```
Start at: 2019-01-22 05:14:44
End at: 2019-01-22 05:15:14
Local clock offset: -0.112 ms
Remote clock offset: 0.066 ms

# Below is generated by plot.py at 2019-01-22 08:35:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.088 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.088 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

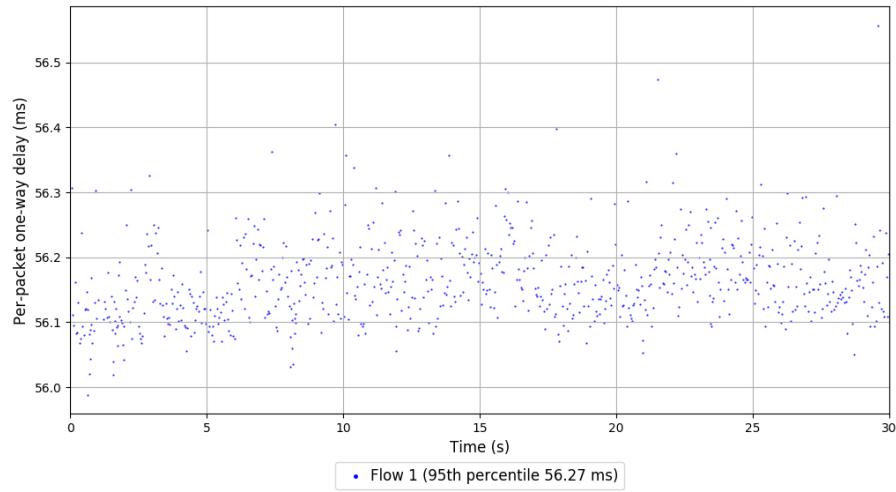
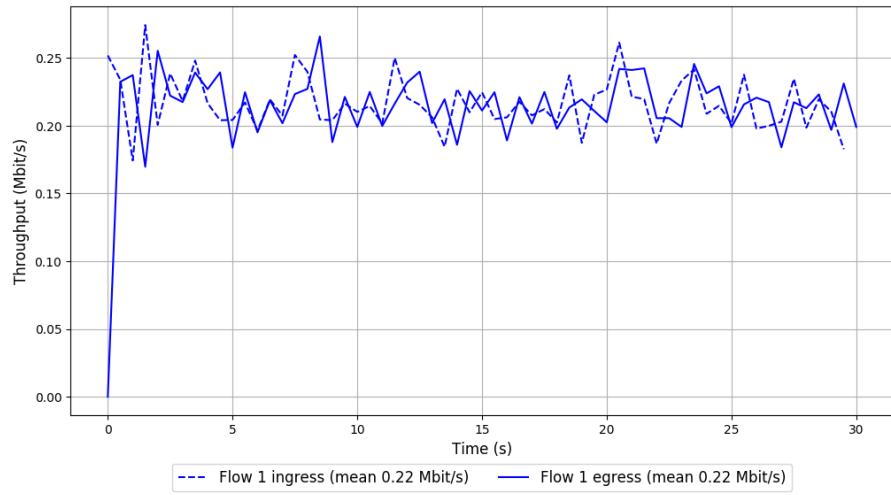


Run 5: Statistics of SCReAM

```
Start at: 2019-01-22 05:49:31
End at: 2019-01-22 05:50:01
Local clock offset: 0.221 ms
Remote clock offset: -0.676 ms

# Below is generated by plot.py at 2019-01-22 08:35:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.274 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.274 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

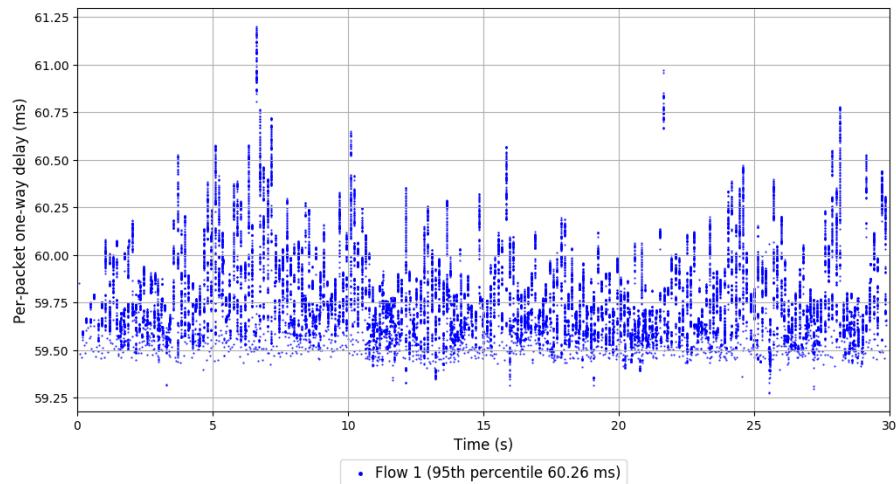
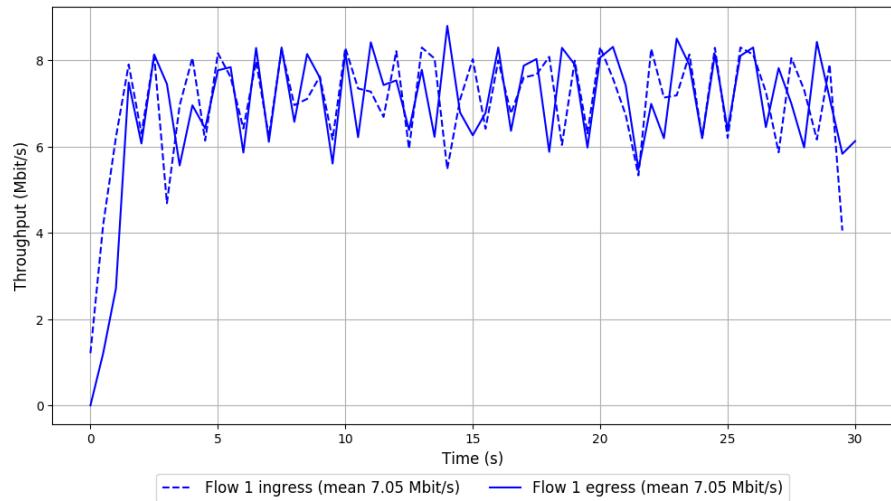


Run 1: Statistics of Sprout

```
Start at: 2019-01-22 03:56:38
End at: 2019-01-22 03:57:08
Local clock offset: -0.018 ms
Remote clock offset: -1.007 ms

# Below is generated by plot.py at 2019-01-22 08:35:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.05 Mbit/s
95th percentile per-packet one-way delay: 60.263 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.05 Mbit/s
95th percentile per-packet one-way delay: 60.263 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

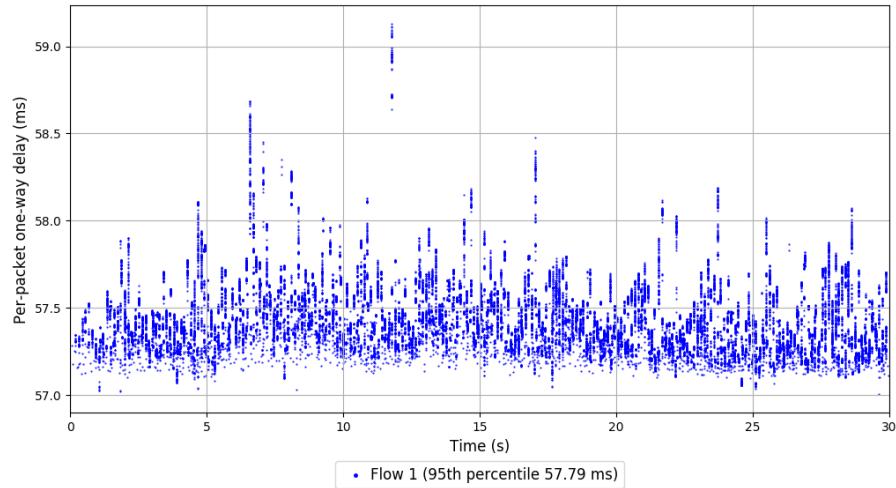
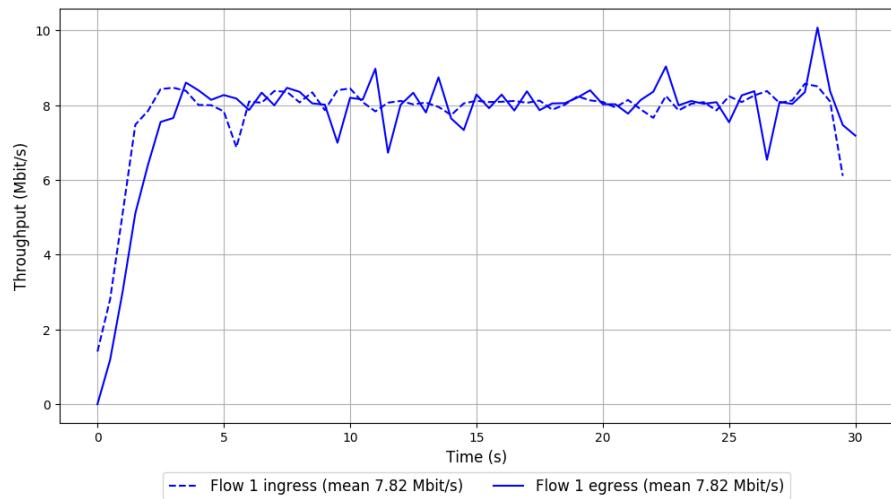


Run 2: Statistics of Sprout

```
Start at: 2019-01-22 04:30:39
End at: 2019-01-22 04:31:09
Local clock offset: -0.363 ms
Remote clock offset: -0.31 ms

# Below is generated by plot.py at 2019-01-22 08:35:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.82 Mbit/s
95th percentile per-packet one-way delay: 57.794 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.82 Mbit/s
95th percentile per-packet one-way delay: 57.794 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

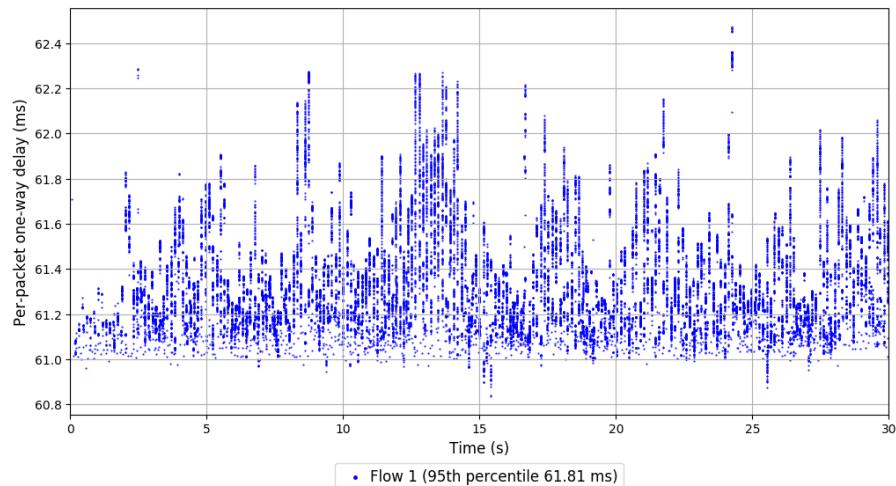
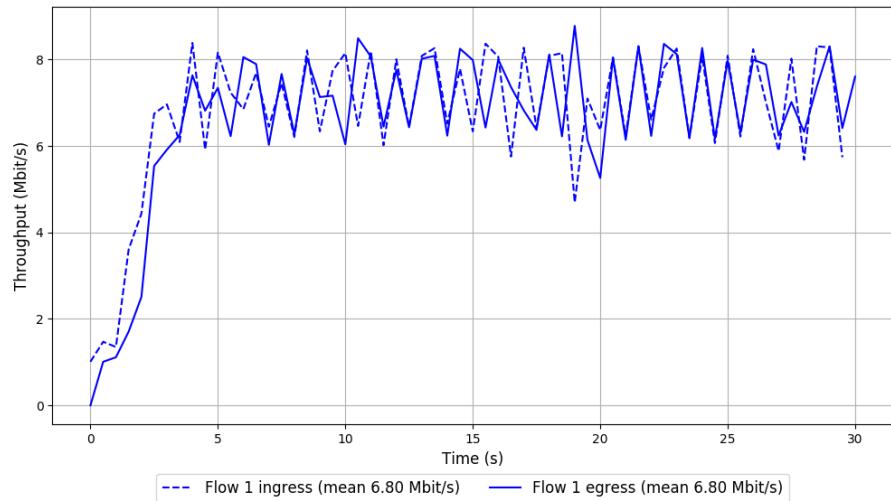


Run 3: Statistics of Sprout

```
Start at: 2019-01-22 05:04:39
End at: 2019-01-22 05:05:10
Local clock offset: -0.19 ms
Remote clock offset: 0.036 ms

# Below is generated by plot.py at 2019-01-22 08:35:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.80 Mbit/s
95th percentile per-packet one-way delay: 61.808 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.80 Mbit/s
95th percentile per-packet one-way delay: 61.808 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

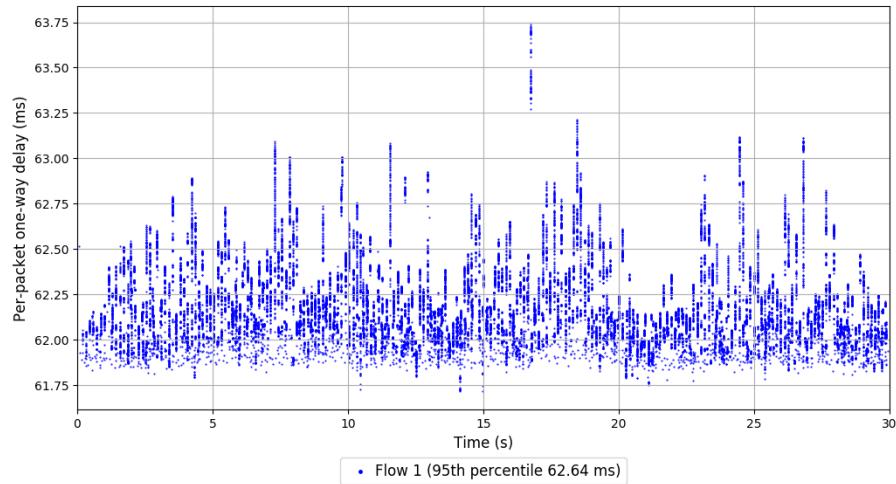
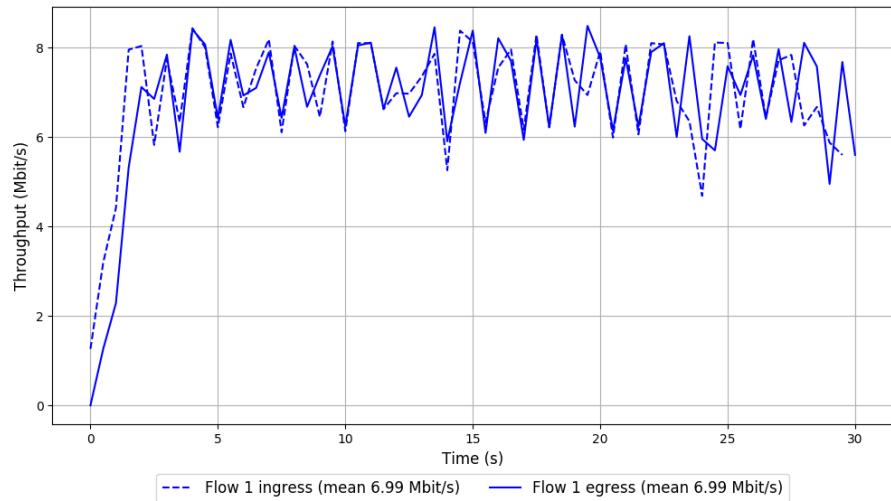


Run 4: Statistics of Sprout

```
Start at: 2019-01-22 05:38:36
End at: 2019-01-22 05:39:06
Local clock offset: -0.338 ms
Remote clock offset: 1.409 ms

# Below is generated by plot.py at 2019-01-22 08:35:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.99 Mbit/s
95th percentile per-packet one-way delay: 62.643 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.99 Mbit/s
95th percentile per-packet one-way delay: 62.643 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

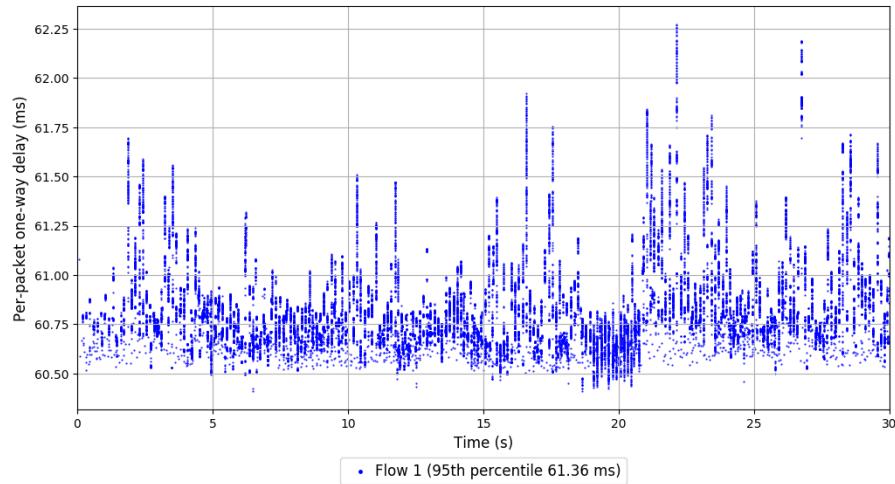
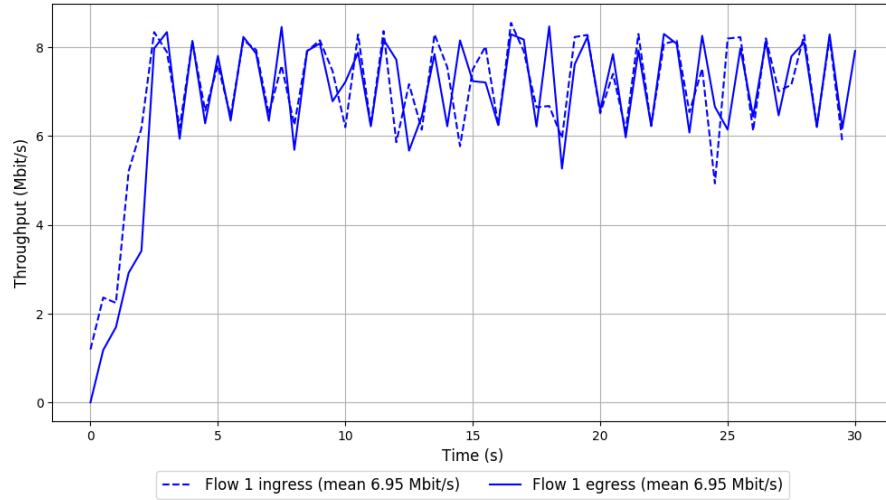


Run 5: Statistics of Sprout

```
Start at: 2019-01-22 06:12:06
End at: 2019-01-22 06:12:36
Local clock offset: -0.029 ms
Remote clock offset: 0.061 ms

# Below is generated by plot.py at 2019-01-22 08:35:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.95 Mbit/s
95th percentile per-packet one-way delay: 61.357 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.95 Mbit/s
95th percentile per-packet one-way delay: 61.357 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

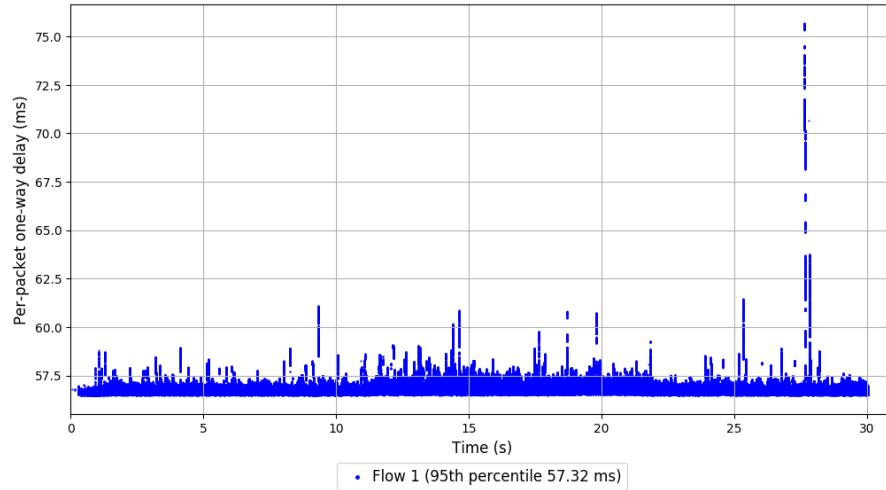
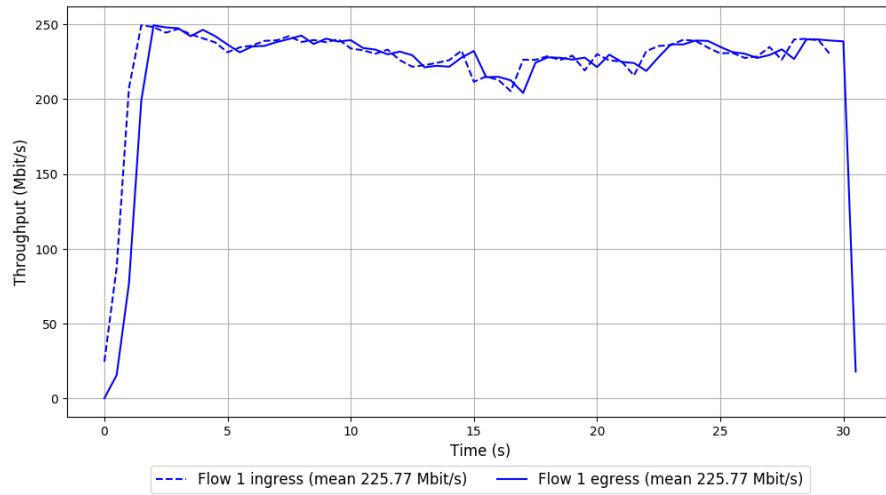


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-01-22 03:59:27
End at: 2019-01-22 03:59:57
Local clock offset: -0.014 ms
Remote clock offset: -0.51 ms

# Below is generated by plot.py at 2019-01-22 08:36:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 225.77 Mbit/s
95th percentile per-packet one-way delay: 57.320 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 225.77 Mbit/s
95th percentile per-packet one-way delay: 57.320 ms
Loss rate: 0.00%
```

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

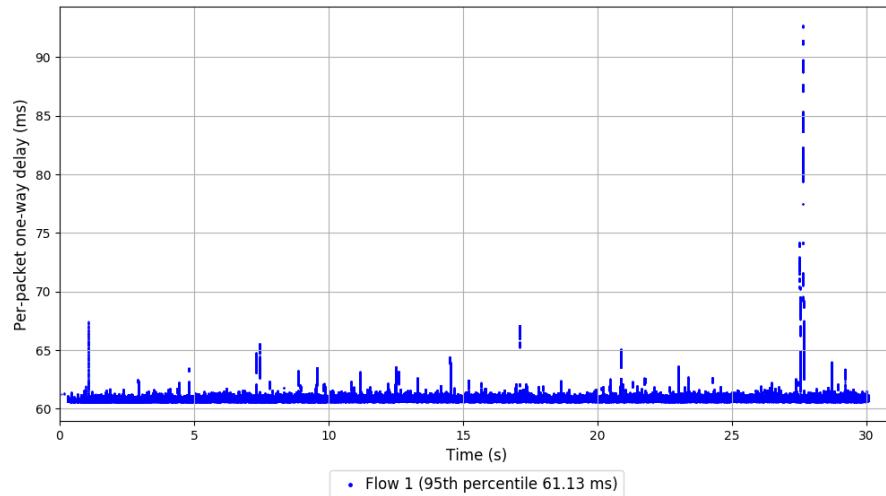
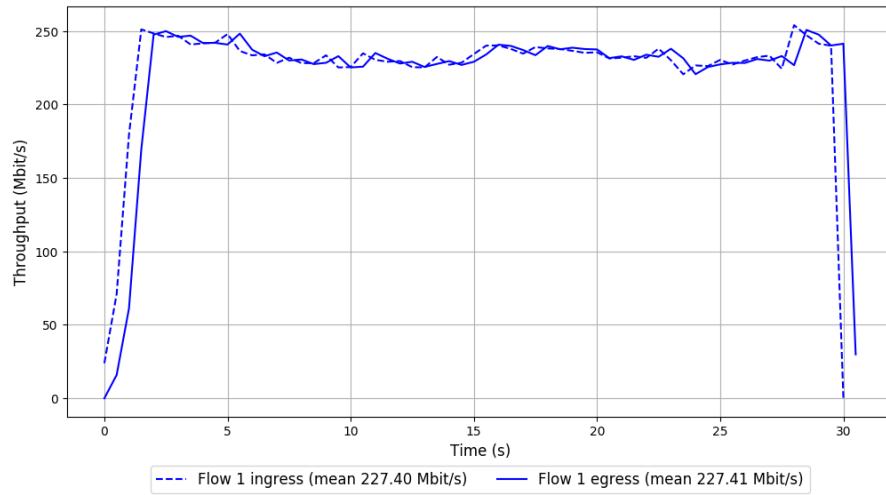


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-01-22 04:33:38
End at: 2019-01-22 04:34:08
Local clock offset: -0.21 ms
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2019-01-22 08:36:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 227.41 Mbit/s
95th percentile per-packet one-way delay: 61.128 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 227.41 Mbit/s
95th percentile per-packet one-way delay: 61.128 ms
Loss rate: 0.00%
```

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

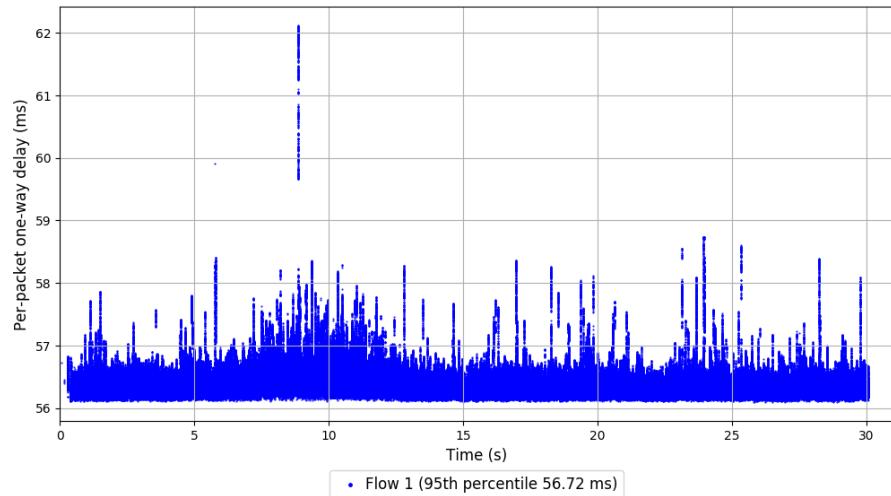
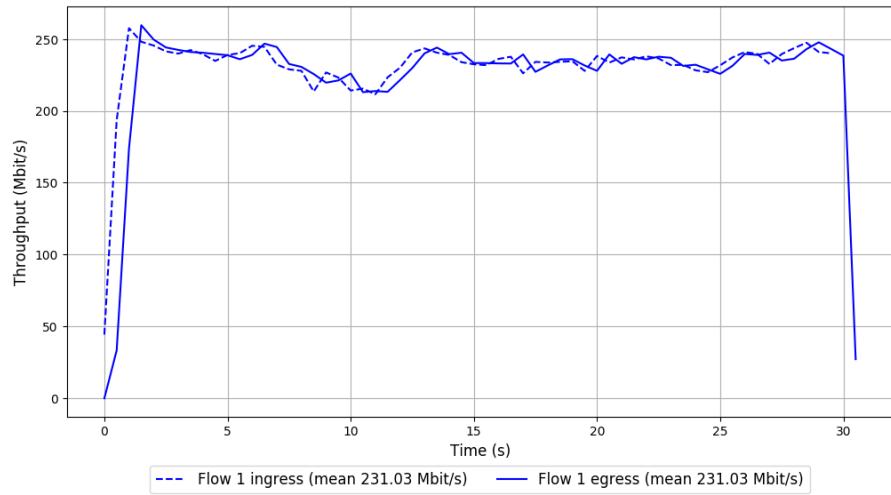


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-01-22 05:07:37
End at: 2019-01-22 05:08:07
Local clock offset: 0.217 ms
Remote clock offset: -0.645 ms

# Below is generated by plot.py at 2019-01-22 08:36:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 231.03 Mbit/s
95th percentile per-packet one-way delay: 56.715 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 231.03 Mbit/s
95th percentile per-packet one-way delay: 56.715 ms
Loss rate: 0.00%
```

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

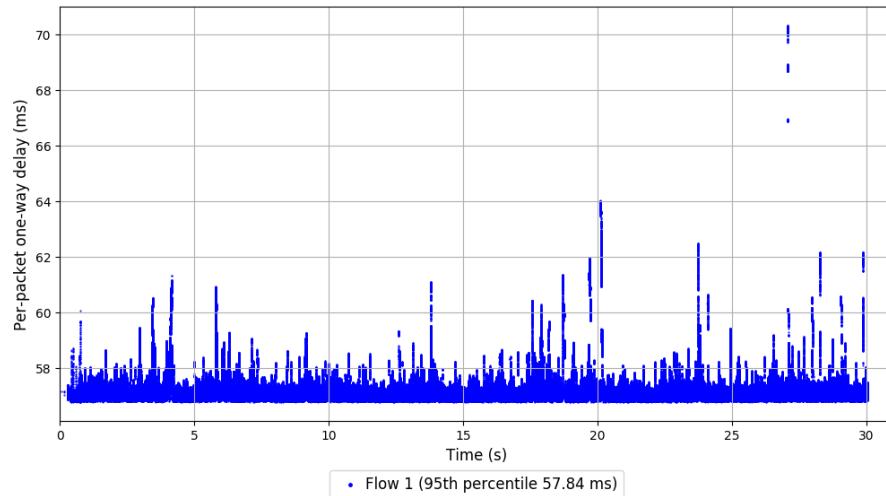
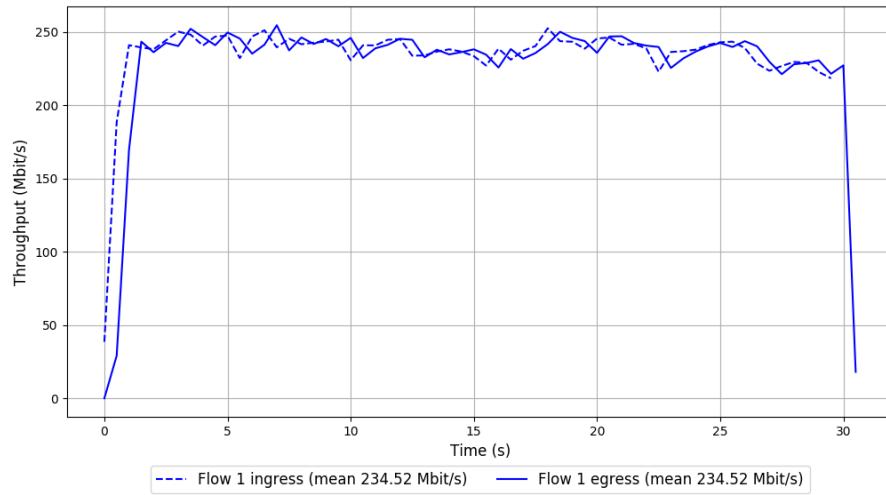


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-01-22 05:41:33
End at: 2019-01-22 05:42:03
Local clock offset: 0.258 ms
Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2019-01-22 08:38:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 234.52 Mbit/s
95th percentile per-packet one-way delay: 57.839 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 234.52 Mbit/s
95th percentile per-packet one-way delay: 57.839 ms
Loss rate: 0.00%
```

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

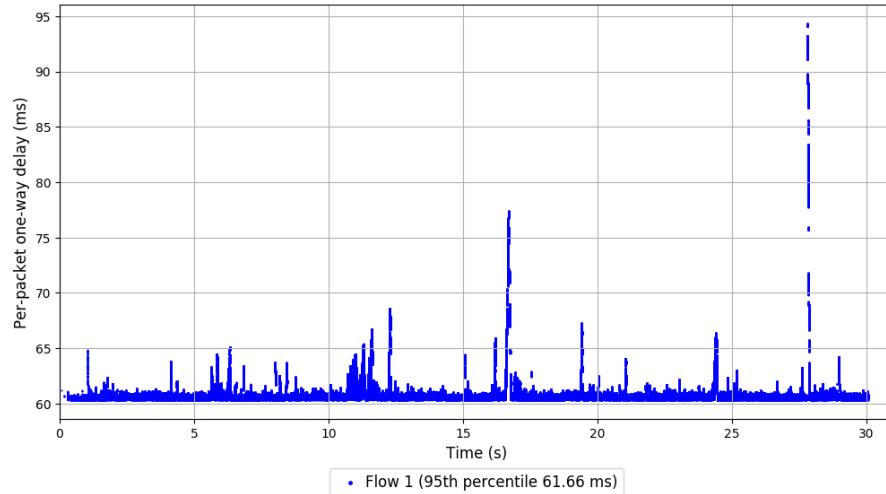
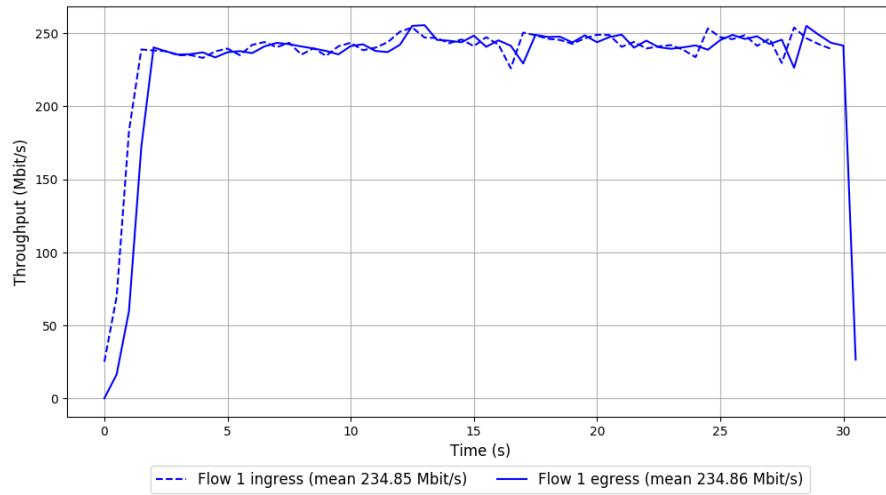


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-01-22 06:15:01
End at: 2019-01-22 06:15:31
Local clock offset: -0.392 ms
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2019-01-22 08:38:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 234.86 Mbit/s
95th percentile per-packet one-way delay: 61.663 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 234.86 Mbit/s
95th percentile per-packet one-way delay: 61.663 ms
Loss rate: 0.00%
```

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

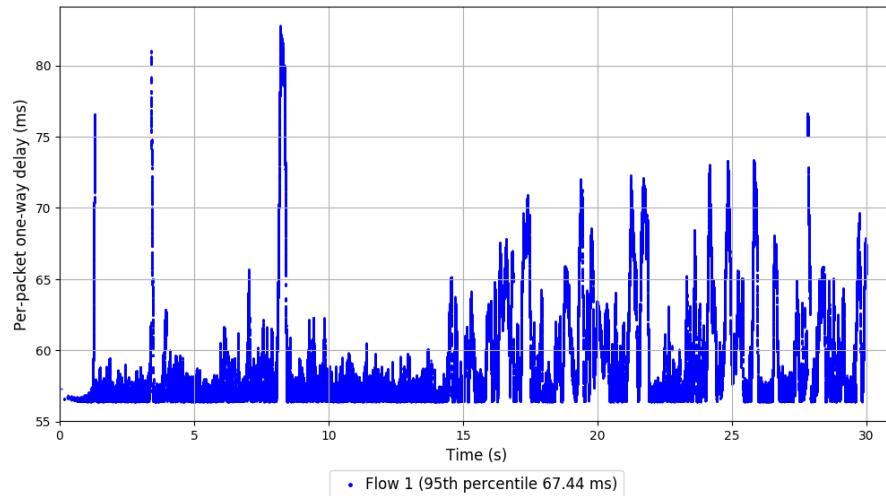
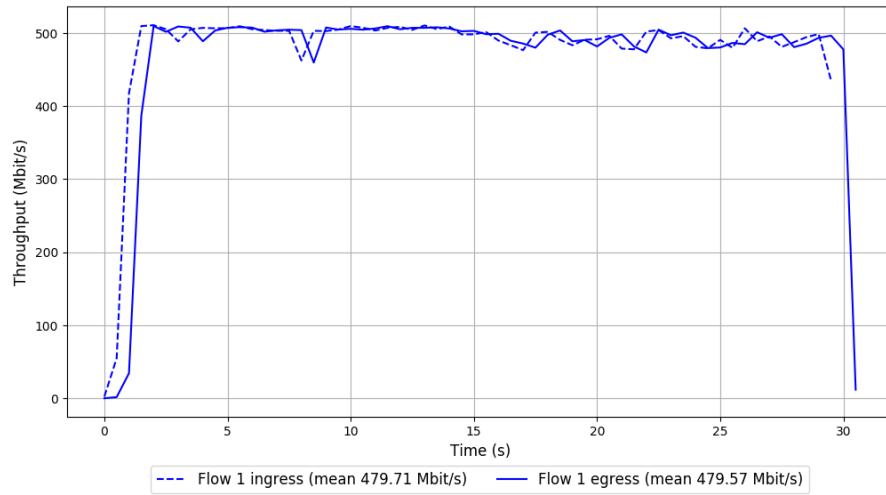


Run 1: Statistics of TCP Vegas

```
Start at: 2019-01-22 03:46:09
End at: 2019-01-22 03:46:39
Local clock offset: 0.363 ms
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2019-01-22 08:40:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 479.57 Mbit/s
95th percentile per-packet one-way delay: 67.439 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 479.57 Mbit/s
95th percentile per-packet one-way delay: 67.439 ms
Loss rate: 0.02%
```

Run 1: Report of TCP Vegas — Data Link

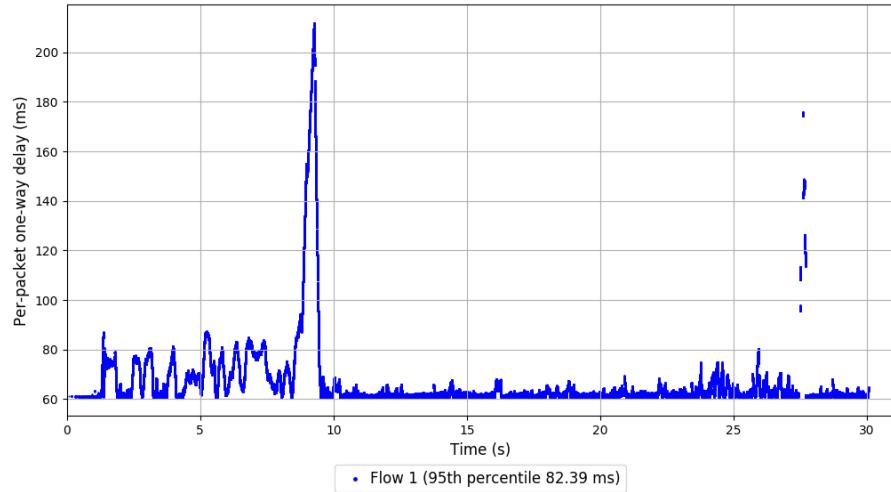
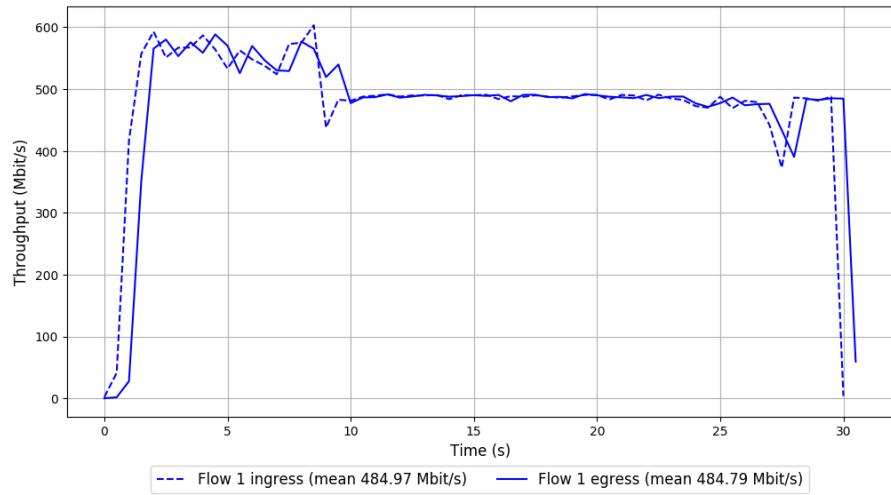


Run 2: Statistics of TCP Vegas

```
Start at: 2019-01-22 04:19:16
End at: 2019-01-22 04:19:46
Local clock offset: -0.075 ms
Remote clock offset: 0.17 ms

# Below is generated by plot.py at 2019-01-22 08:47:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 484.79 Mbit/s
95th percentile per-packet one-way delay: 82.392 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 484.79 Mbit/s
95th percentile per-packet one-way delay: 82.392 ms
Loss rate: 0.04%
```

Run 2: Report of TCP Vegas — Data Link

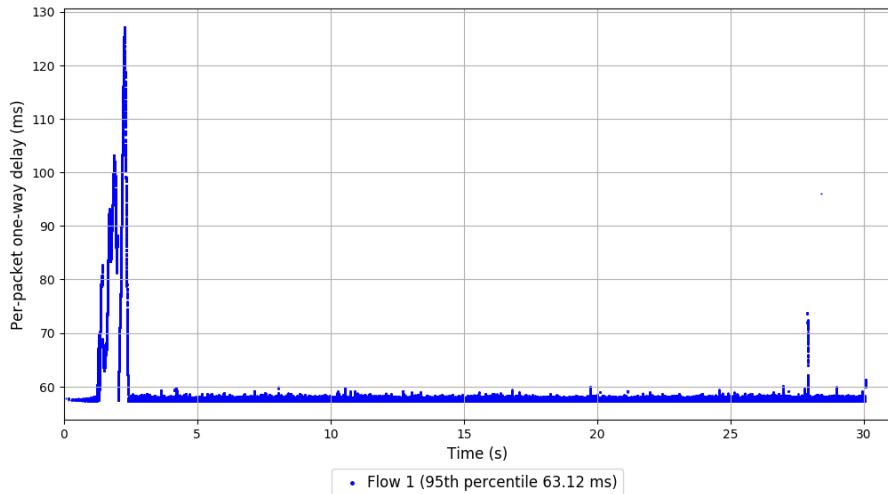
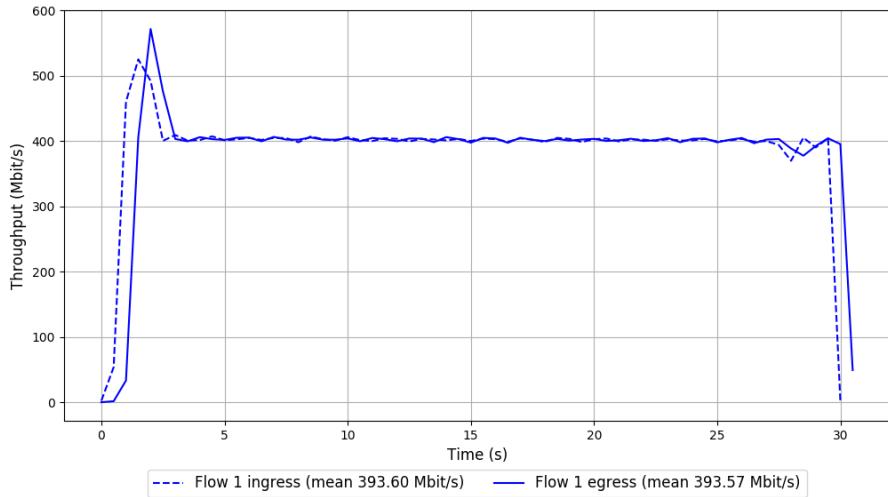


Run 3: Statistics of TCP Vegas

```
Start at: 2019-01-22 04:54:32
End at: 2019-01-22 04:55:02
Local clock offset: -0.458 ms
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2019-01-22 08:47:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 393.57 Mbit/s
95th percentile per-packet one-way delay: 63.123 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 393.57 Mbit/s
95th percentile per-packet one-way delay: 63.123 ms
Loss rate: 0.00%
```

Run 3: Report of TCP Vegas — Data Link

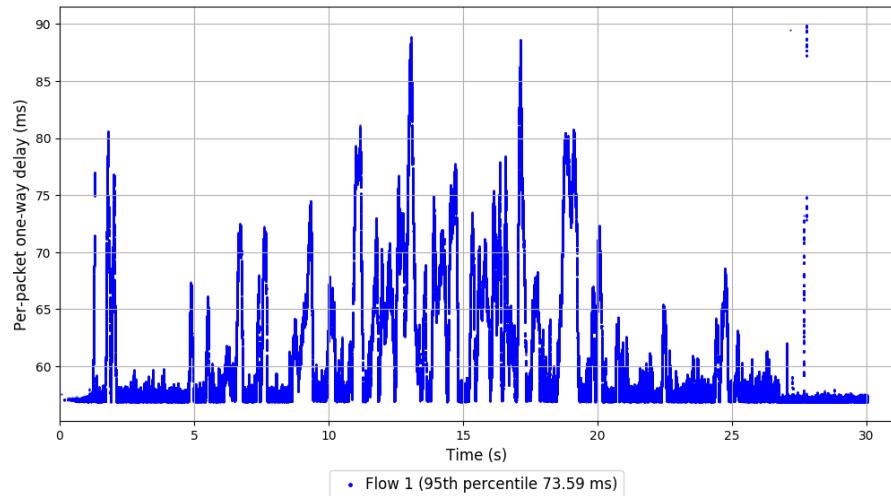
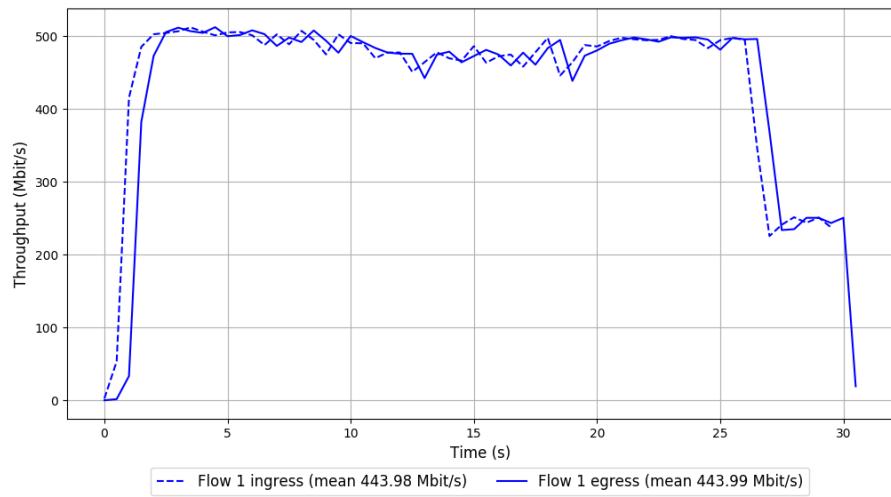


Run 4: Statistics of TCP Vegas

```
Start at: 2019-01-22 05:27:36
End at: 2019-01-22 05:28:06
Local clock offset: -0.062 ms
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2019-01-22 08:47:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 443.99 Mbit/s
95th percentile per-packet one-way delay: 73.590 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 443.99 Mbit/s
95th percentile per-packet one-way delay: 73.590 ms
Loss rate: 0.00%
```

Run 4: Report of TCP Vegas — Data Link

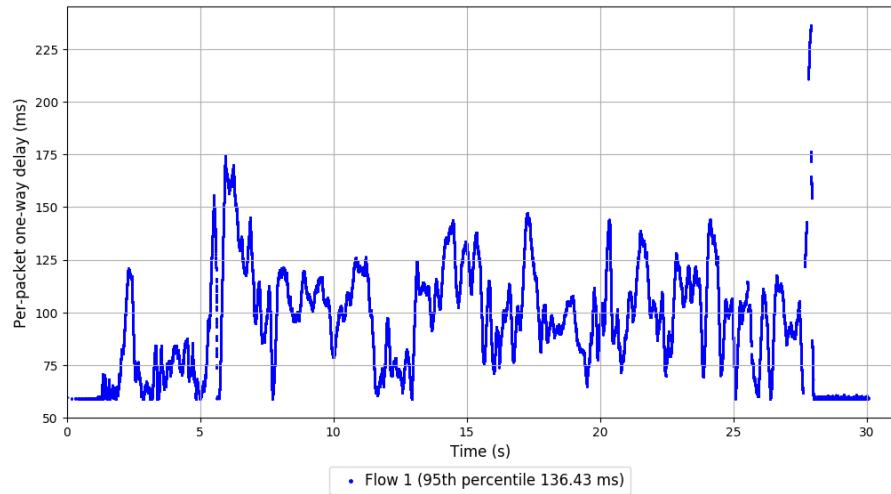
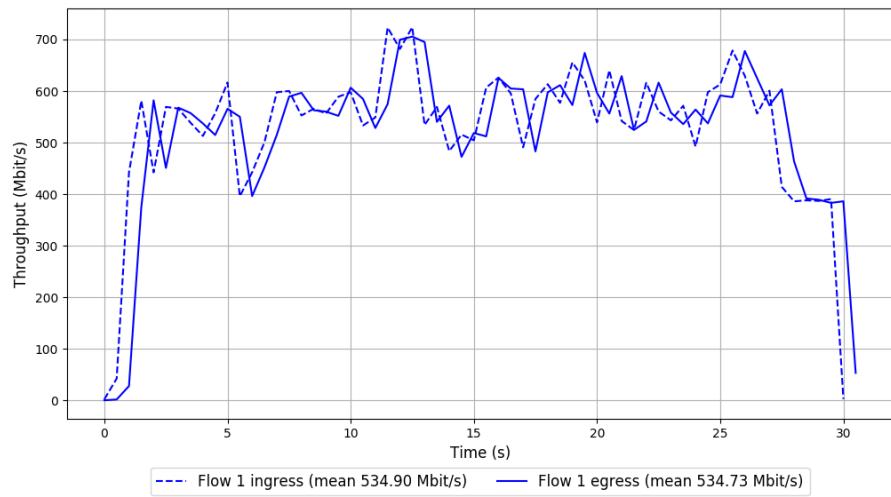


Run 5: Statistics of TCP Vegas

```
Start at: 2019-01-22 06:01:54
End at: 2019-01-22 06:02:24
Local clock offset: 0.237 ms
Remote clock offset: -1.316 ms

# Below is generated by plot.py at 2019-01-22 08:49:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 534.73 Mbit/s
95th percentile per-packet one-way delay: 136.425 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 534.73 Mbit/s
95th percentile per-packet one-way delay: 136.425 ms
Loss rate: 0.03%
```

Run 5: Report of TCP Vegas — Data Link

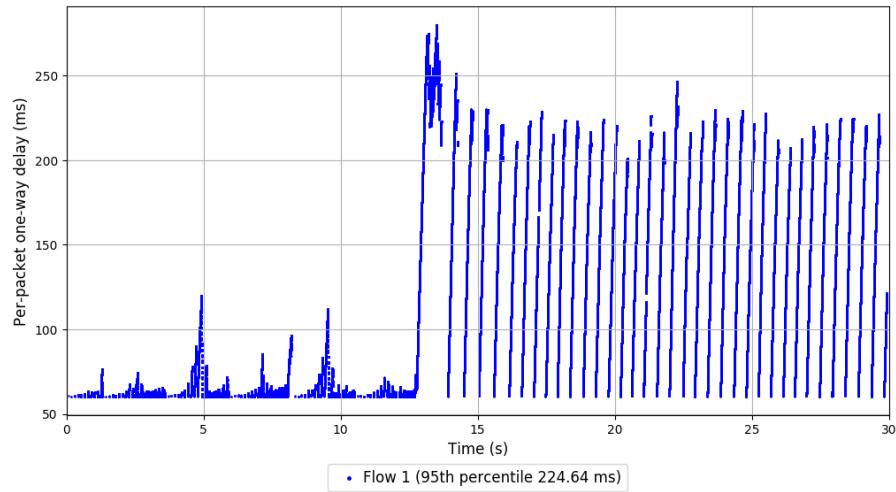
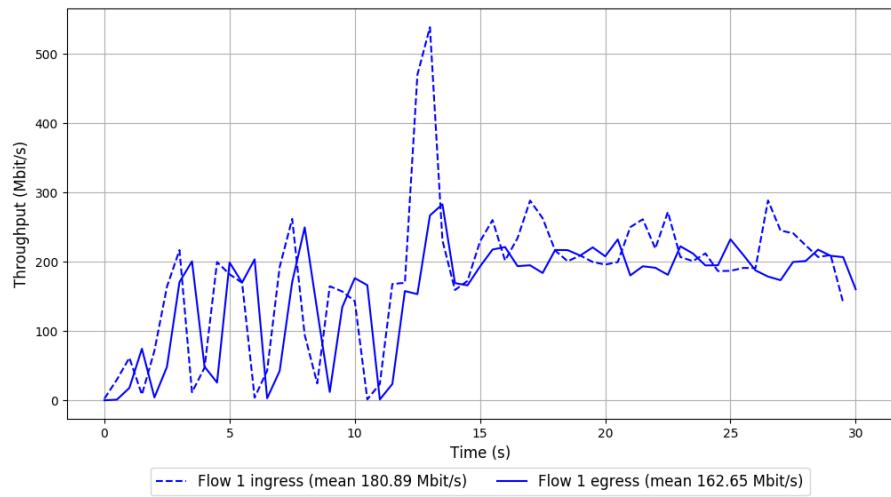


Run 1: Statistics of Verus

```
Start at: 2019-01-22 03:52:33
End at: 2019-01-22 03:53:03
Local clock offset: -0.174 ms
Remote clock offset: -0.279 ms

# Below is generated by plot.py at 2019-01-22 08:49:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 162.65 Mbit/s
95th percentile per-packet one-way delay: 224.643 ms
Loss rate: 10.08%
-- Flow 1:
Average throughput: 162.65 Mbit/s
95th percentile per-packet one-way delay: 224.643 ms
Loss rate: 10.08%
```

Run 1: Report of Verus — Data Link

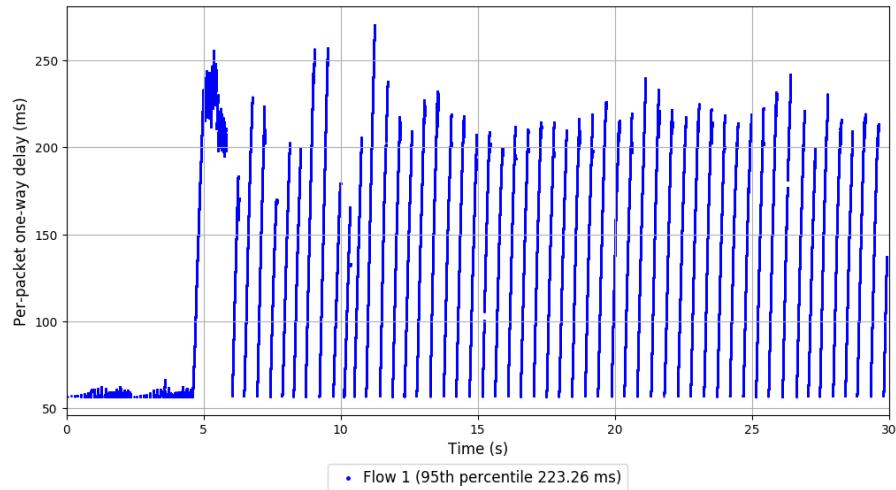
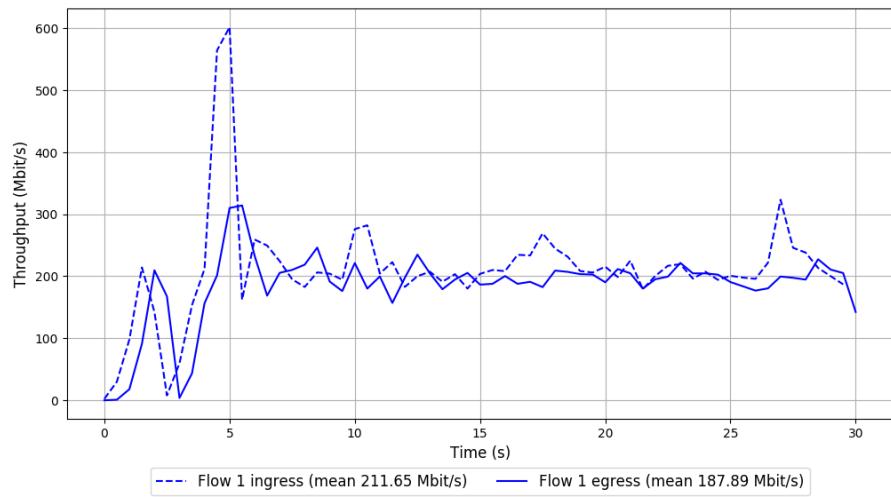


Run 2: Statistics of Verus

```
Start at: 2019-01-22 04:26:06
End at: 2019-01-22 04:26:36
Local clock offset: -0.05 ms
Remote clock offset: -0.633 ms

# Below is generated by plot.py at 2019-01-22 08:49:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 187.89 Mbit/s
95th percentile per-packet one-way delay: 223.257 ms
Loss rate: 11.22%
-- Flow 1:
Average throughput: 187.89 Mbit/s
95th percentile per-packet one-way delay: 223.257 ms
Loss rate: 11.22%
```

Run 2: Report of Verus — Data Link

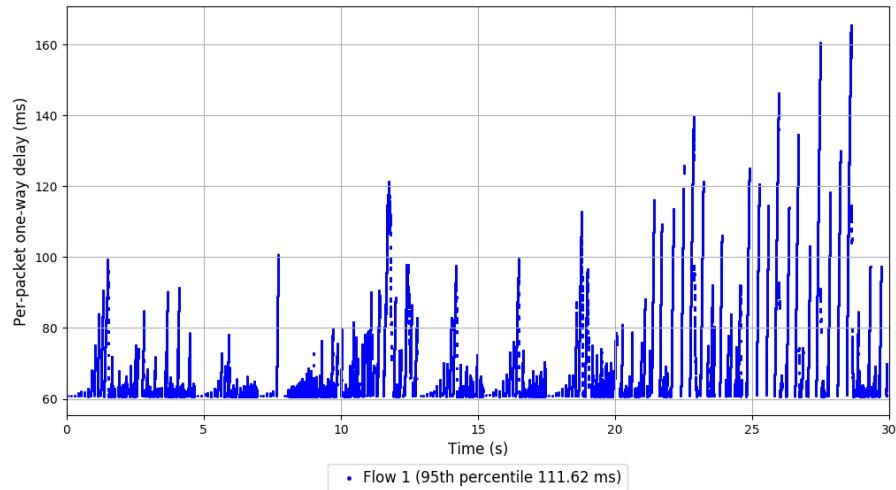
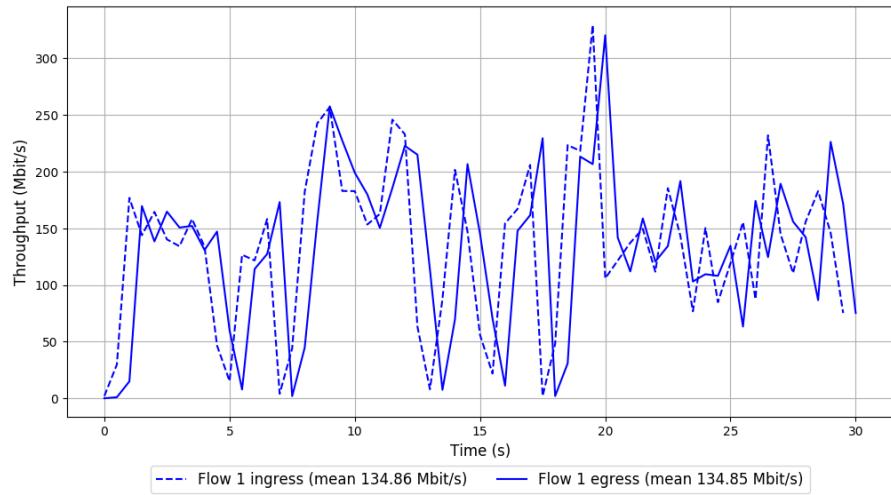


Run 3: Statistics of Verus

```
Start at: 2019-01-22 05:00:58
End at: 2019-01-22 05:01:28
Local clock offset: 0.204 ms
Remote clock offset: 0.587 ms

# Below is generated by plot.py at 2019-01-22 08:49:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 134.85 Mbit/s
95th percentile per-packet one-way delay: 111.623 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 134.85 Mbit/s
95th percentile per-packet one-way delay: 111.623 ms
Loss rate: 0.00%
```

Run 3: Report of Verus — Data Link

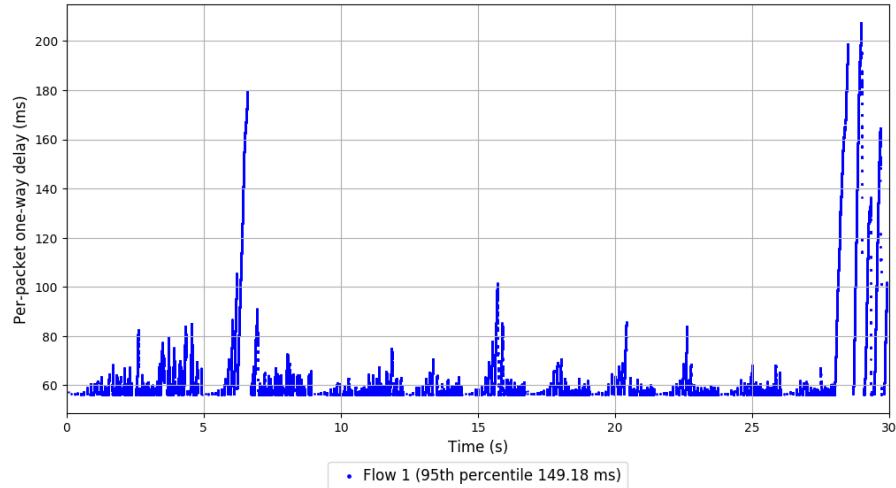
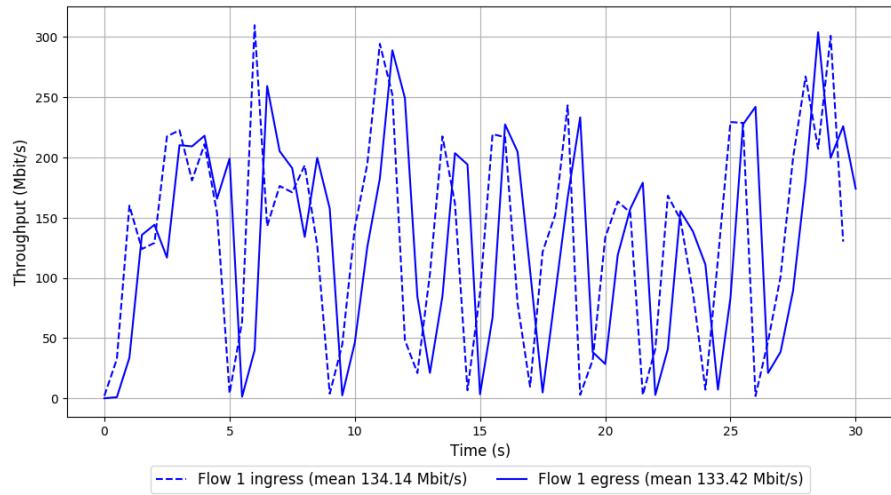


Run 4: Statistics of Verus

```
Start at: 2019-01-22 05:34:22
End at: 2019-01-22 05:34:52
Local clock offset: -0.107 ms
Remote clock offset: -0.586 ms

# Below is generated by plot.py at 2019-01-22 08:49:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 133.42 Mbit/s
95th percentile per-packet one-way delay: 149.181 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 133.42 Mbit/s
95th percentile per-packet one-way delay: 149.181 ms
Loss rate: 0.53%
```

Run 4: Report of Verus — Data Link

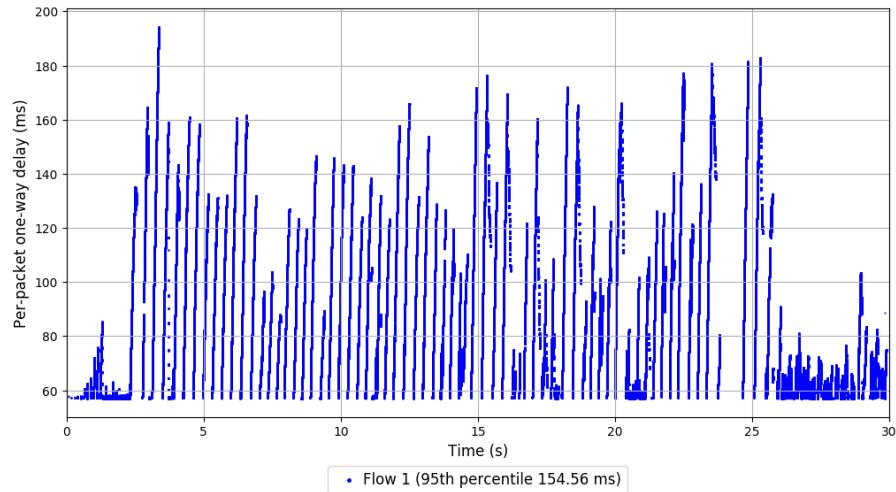
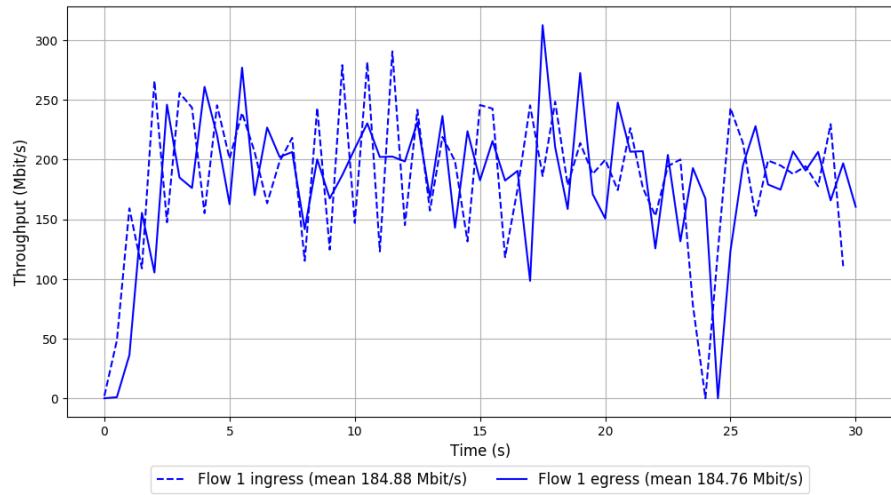


Run 5: Statistics of Verus

```
Start at: 2019-01-22 06:08:15
End at: 2019-01-22 06:08:45
Local clock offset: -0.067 ms
Remote clock offset: -0.195 ms

# Below is generated by plot.py at 2019-01-22 08:52:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 184.76 Mbit/s
95th percentile per-packet one-way delay: 154.559 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 184.76 Mbit/s
95th percentile per-packet one-way delay: 154.559 ms
Loss rate: 0.00%
```

Run 5: Report of Verus — Data Link

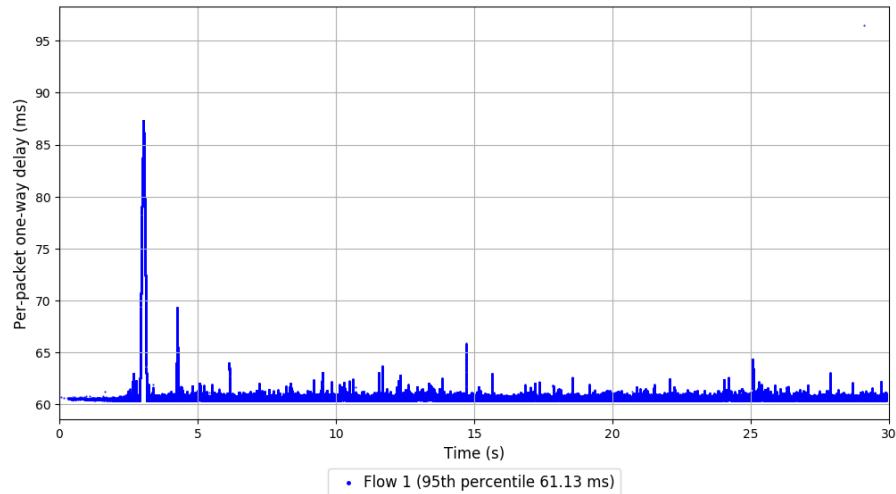
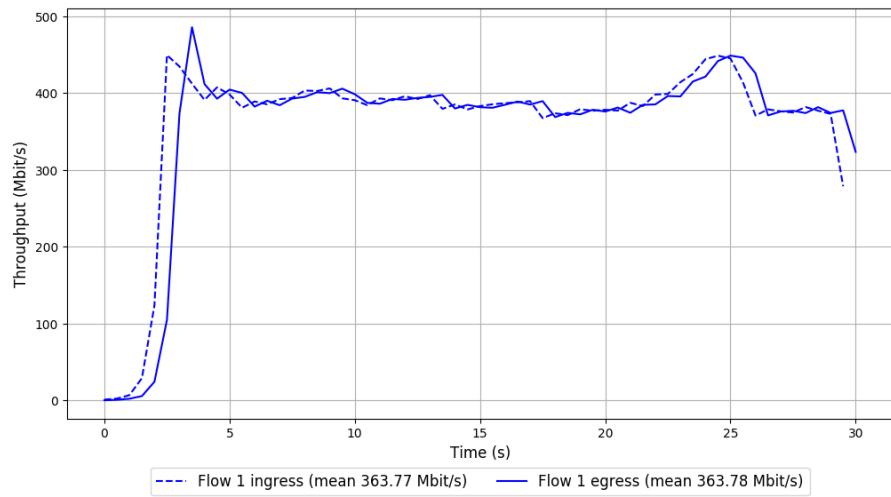


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-01-22 03:39:35
End at: 2019-01-22 03:40:05
Local clock offset: -0.264 ms
Remote clock offset: -0.168 ms

# Below is generated by plot.py at 2019-01-22 08:53:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 363.78 Mbit/s
95th percentile per-packet one-way delay: 61.134 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 363.78 Mbit/s
95th percentile per-packet one-way delay: 61.134 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Vivace — Data Link

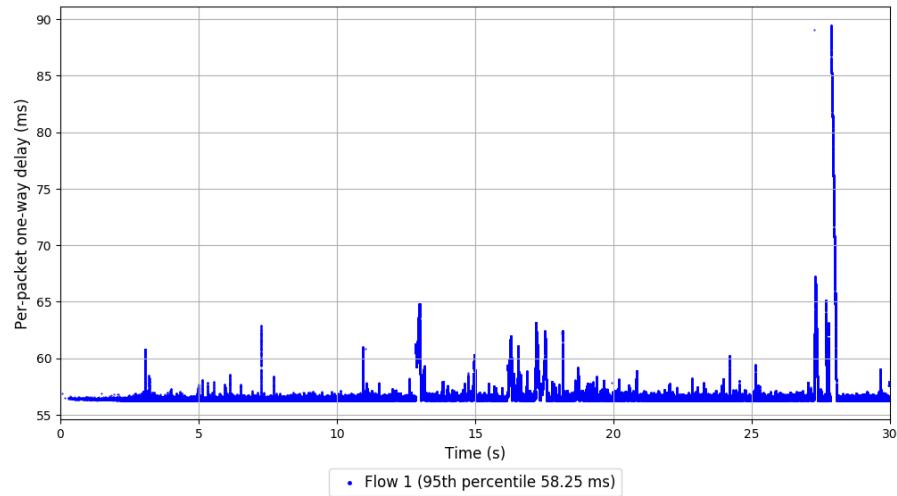
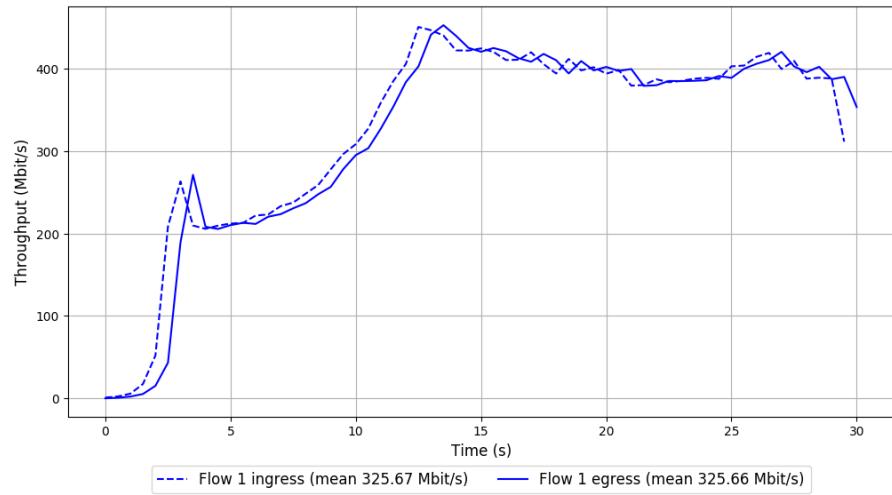


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-01-22 04:12:14
End at: 2019-01-22 04:12:44
Local clock offset: 0.201 ms
Remote clock offset: -0.616 ms

# Below is generated by plot.py at 2019-01-22 08:53:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 325.66 Mbit/s
95th percentile per-packet one-way delay: 58.251 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 325.66 Mbit/s
95th percentile per-packet one-way delay: 58.251 ms
Loss rate: 0.00%
```

Run 2: Report of PCC-Vivace — Data Link

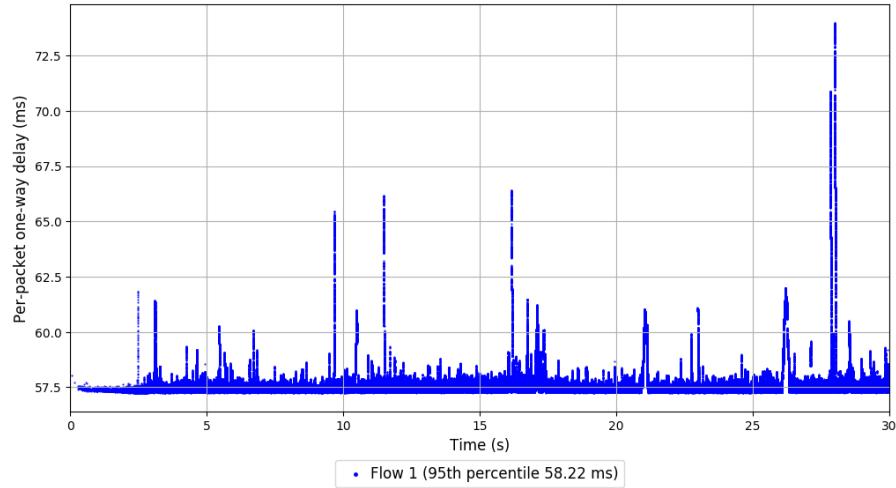
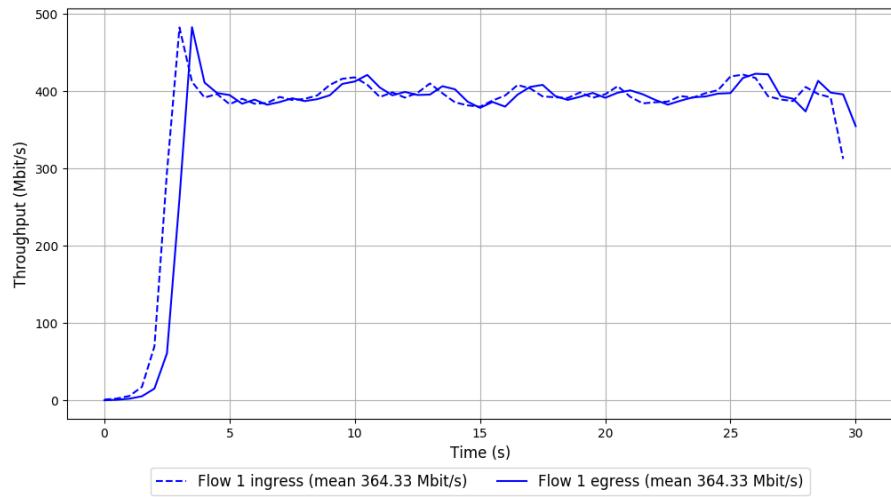


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-01-22 04:47:08
End at: 2019-01-22 04:47:38
Local clock offset: 0.018 ms
Remote clock offset: 0.322 ms

# Below is generated by plot.py at 2019-01-22 08:53:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 364.33 Mbit/s
95th percentile per-packet one-way delay: 58.219 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 364.33 Mbit/s
95th percentile per-packet one-way delay: 58.219 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Vivace — Data Link

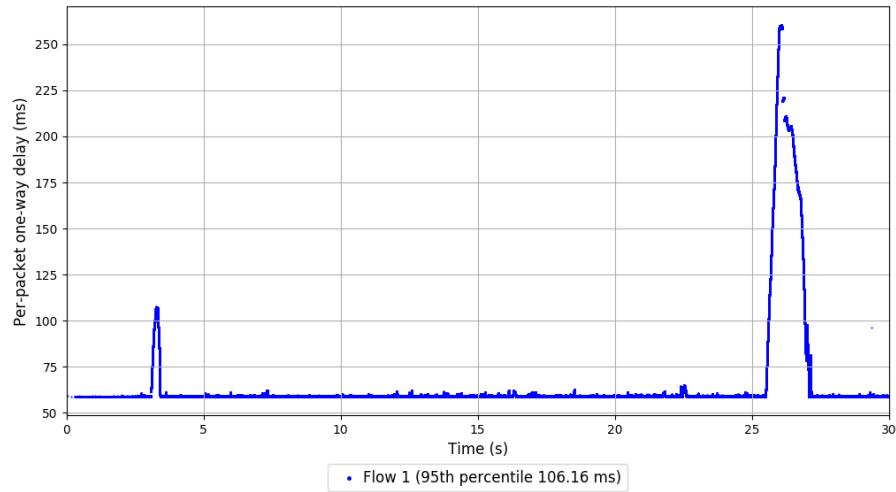
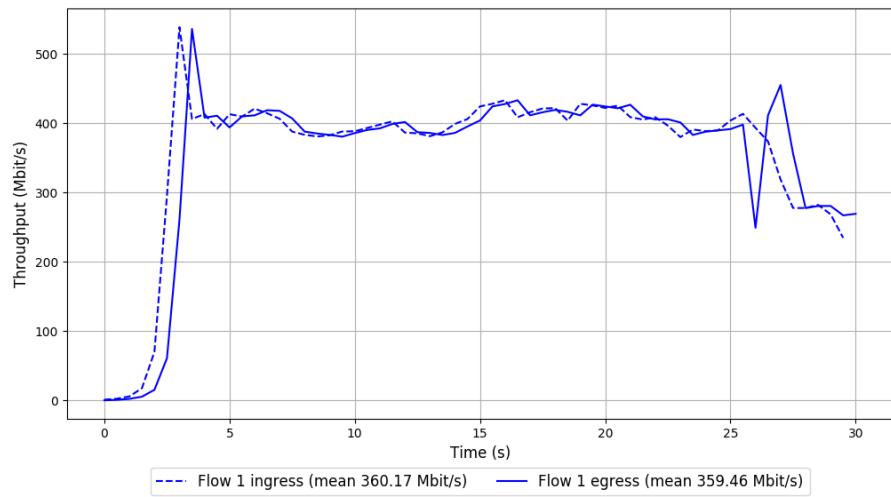


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-01-22 05:20:22
End at: 2019-01-22 05:20:52
Local clock offset: -0.289 ms
Remote clock offset: 1.376 ms

# Below is generated by plot.py at 2019-01-22 08:53:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 359.46 Mbit/s
95th percentile per-packet one-way delay: 106.157 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 359.46 Mbit/s
95th percentile per-packet one-way delay: 106.157 ms
Loss rate: 0.20%
```

Run 4: Report of PCC-Vivace — Data Link

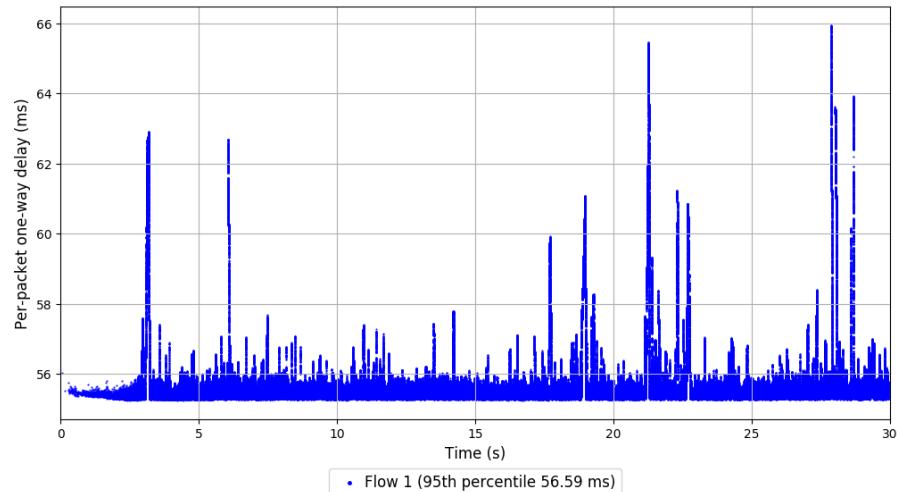
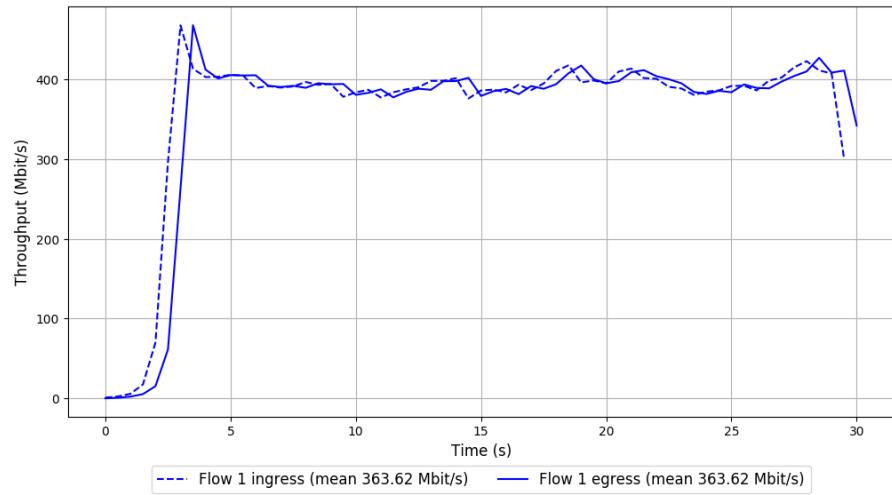


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-01-22 05:55:16
End at: 2019-01-22 05:55:46
Local clock offset: 0.196 ms
Remote clock offset: -1.438 ms

# Below is generated by plot.py at 2019-01-22 08:53:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 363.62 Mbit/s
95th percentile per-packet one-way delay: 56.589 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 363.62 Mbit/s
95th percentile per-packet one-way delay: 56.589 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Vivace — Data Link

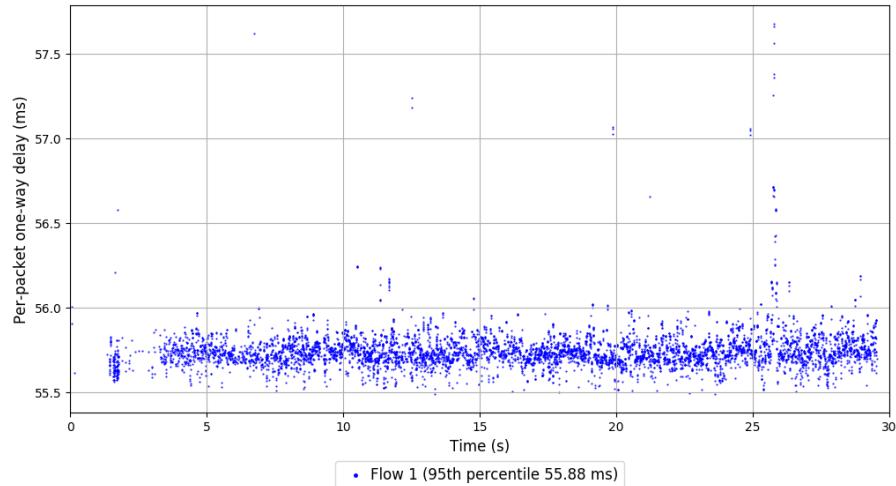
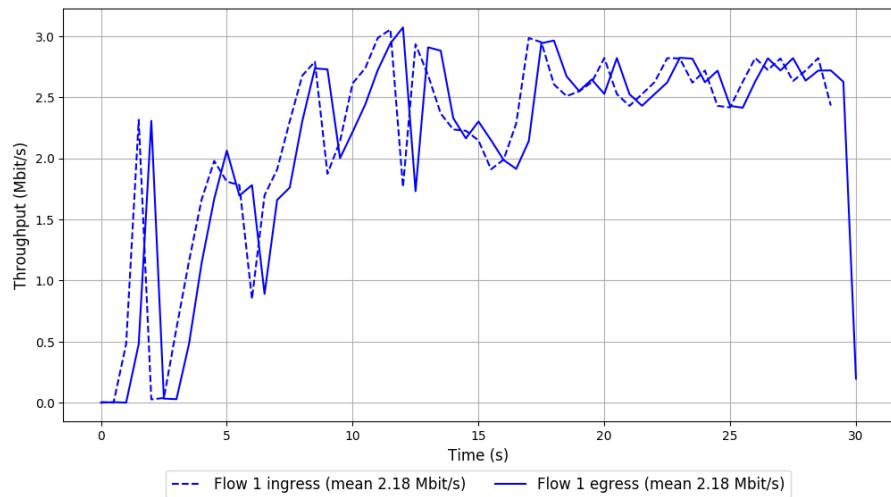


Run 1: Statistics of WebRTC media

```
Start at: 2019-01-22 03:47:48
End at: 2019-01-22 03:48:18
Local clock offset: -0.011 ms
Remote clock offset: -1.472 ms

# Below is generated by plot.py at 2019-01-22 08:53:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.18 Mbit/s
95th percentile per-packet one-way delay: 55.884 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.18 Mbit/s
95th percentile per-packet one-way delay: 55.884 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

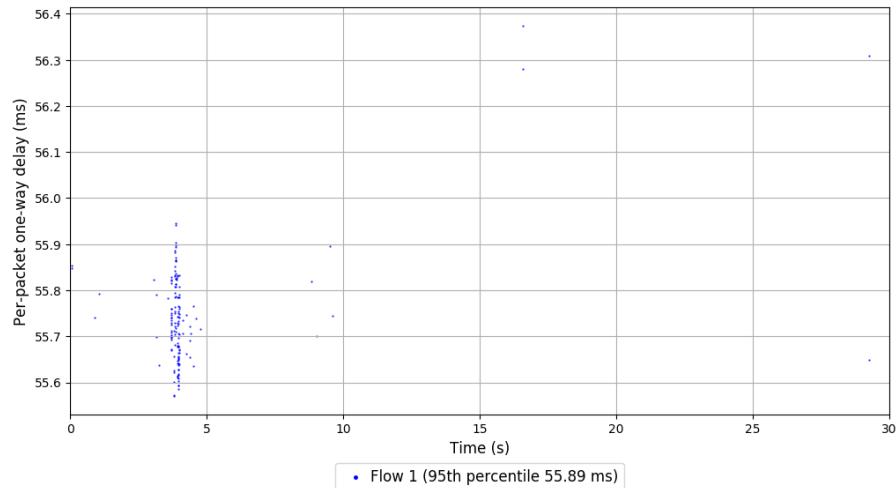
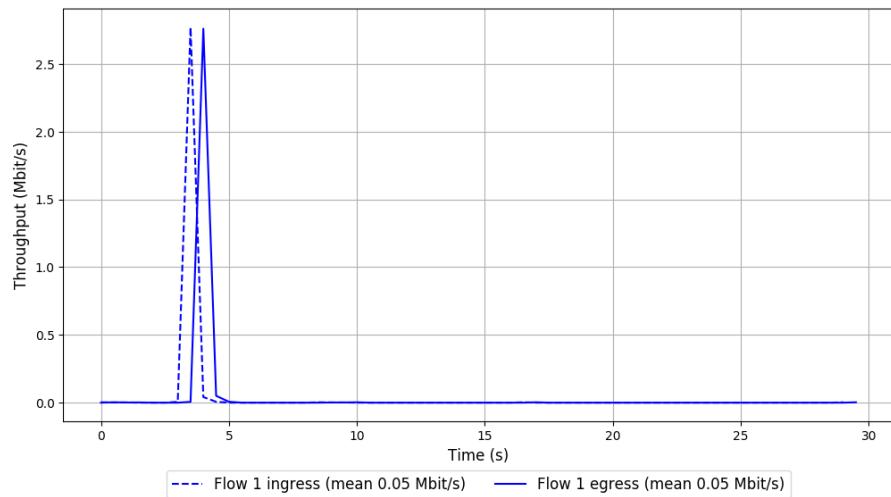


Run 2: Statistics of WebRTC media

```
Start at: 2019-01-22 04:20:57
End at: 2019-01-22 04:21:27
Local clock offset: 0.083 ms
Remote clock offset: -1.336 ms

# Below is generated by plot.py at 2019-01-22 08:53:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 55.893 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 55.893 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

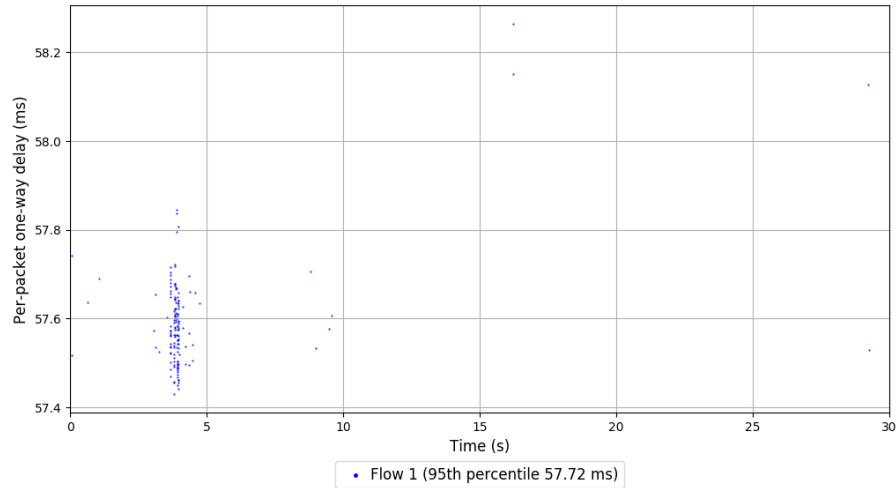
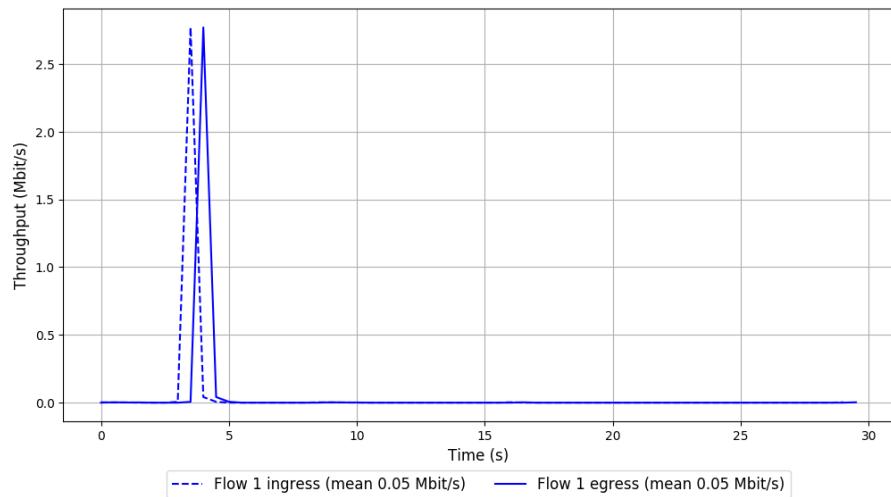


Run 3: Statistics of WebRTC media

```
Start at: 2019-01-22 04:56:06
End at: 2019-01-22 04:56:36
Local clock offset: -0.032 ms
Remote clock offset: 0.023 ms

# Below is generated by plot.py at 2019-01-22 08:53:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 57.722 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 57.722 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

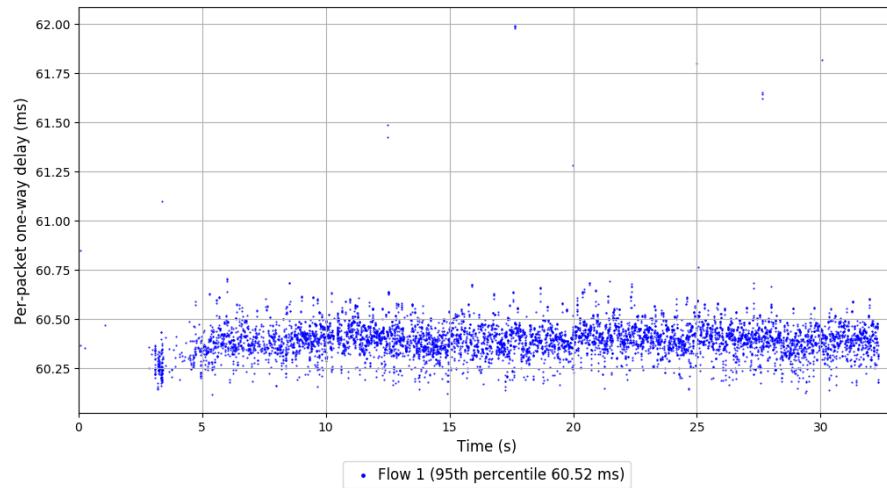
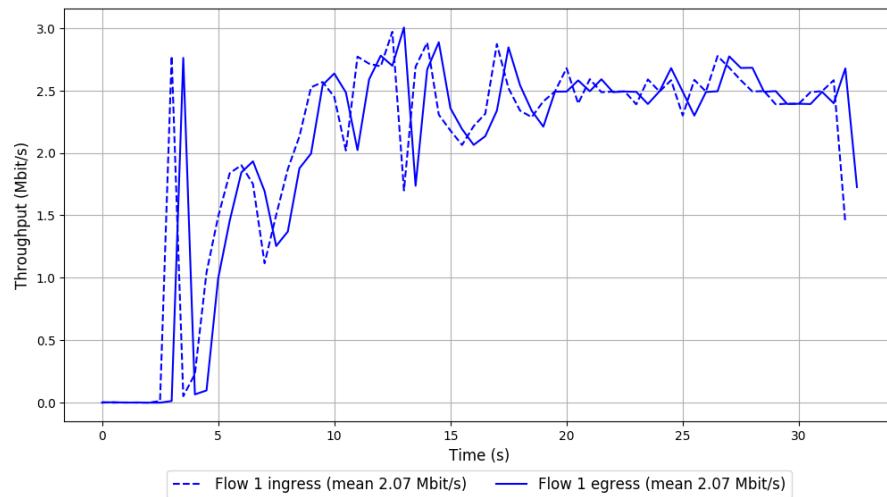


Run 4: Statistics of WebRTC media

```
Start at: 2019-01-22 05:29:14
End at: 2019-01-22 05:29:44
Local clock offset: -0.316 ms
Remote clock offset: -0.501 ms

# Below is generated by plot.py at 2019-01-22 08:53:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 60.525 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 60.525 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



```
Run 5: Statistics of WebRTC media

Start at: 2019-01-22 06:03:30
End at: 2019-01-22 06:04:00
Local clock offset: -0.261 ms
Remote clock offset: 0.723 ms

# Below is generated by plot.py at 2019-01-22 08:53:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.21 Mbit/s
95th percentile per-packet one-way delay: 61.440 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.21 Mbit/s
95th percentile per-packet one-way delay: 61.440 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

