

Pantheon Report

Generated at 2019-03-19 08:39:59 (UTC).
Data path: GCE London on `ens4` (*remote*) → GCE Sydney on `ens4` (*local*).
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:

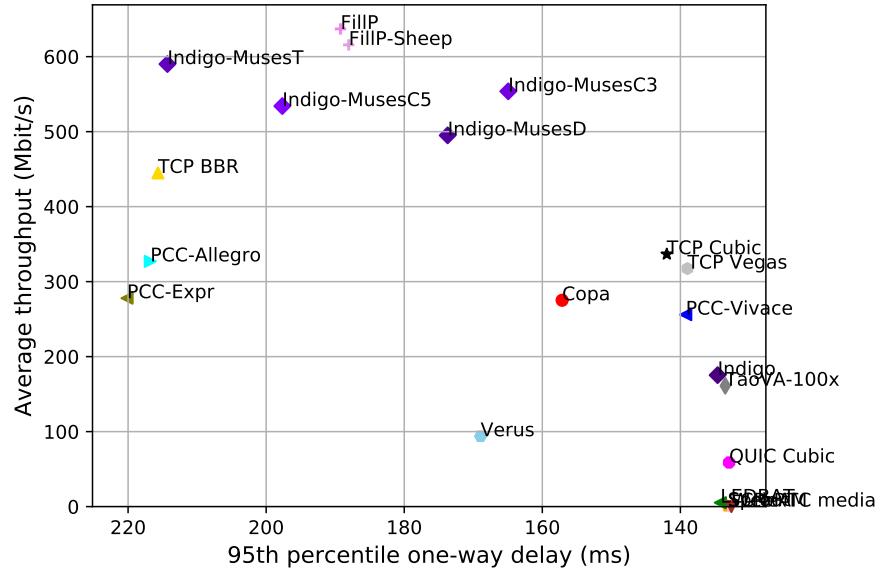
```
Linux 4.15.0-1028-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

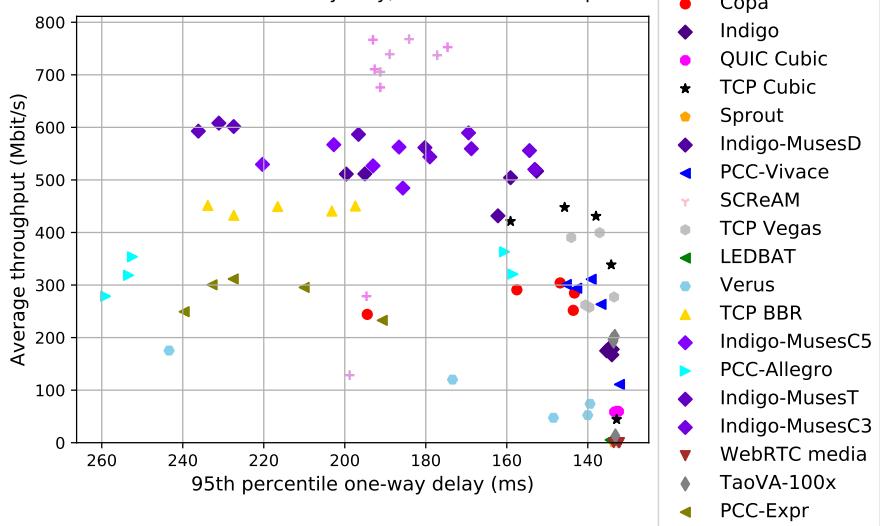
```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

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



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



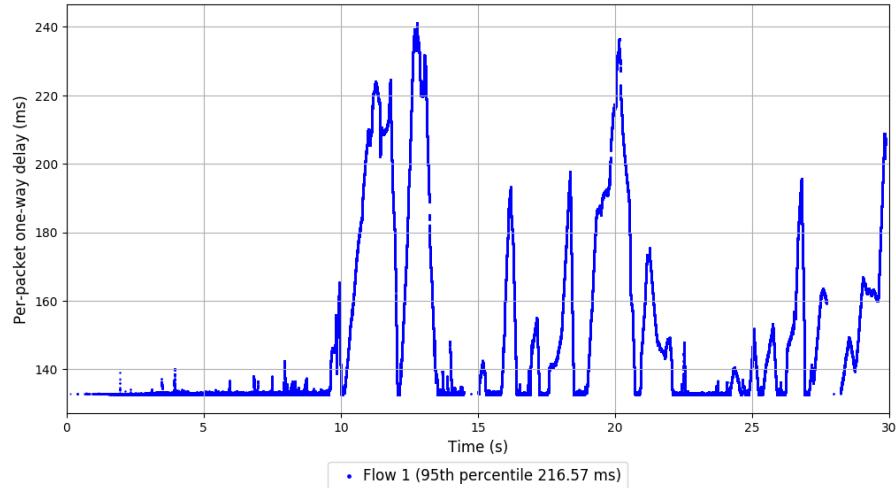
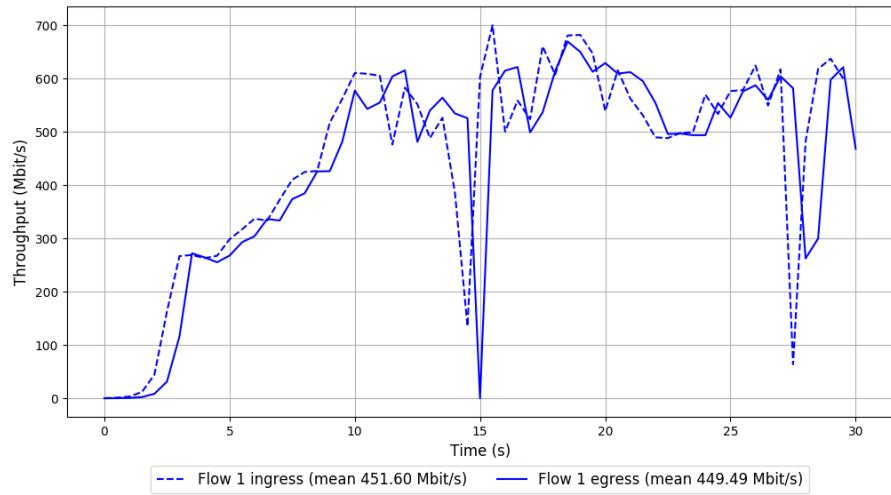
| scheme | # runs | mean avg tput (Mbit/s) flow 1 | mean 95th-%ile delay (ms) flow 1 | mean loss rate (%) flow 1 |
|----------------|--------|----------------------------------|-------------------------------------|------------------------------|
| TCP BBR | 5 | 444.97 | 215.67 | 1.65 |
| Copa | 5 | 275.17 | 157.13 | 0.95 |
| TCP Cubic | 5 | 336.60 | 141.97 | 1.61 |
| FillP | 5 | 636.95 | 189.23 | 3.13 |
| FillP-Sheep | 5 | 615.67 | 188.04 | 1.88 |
| Indigo | 5 | 175.30 | 134.61 | 0.83 |
| Indigo-MusesC3 | 5 | 553.74 | 164.93 | 1.06 |
| Indigo-MusesC5 | 5 | 534.11 | 197.66 | 1.46 |
| Indigo-MusesD | 5 | 495.05 | 173.71 | 1.09 |
| Indigo-MusesT | 5 | 590.12 | 214.30 | 1.64 |
| LEDBAT | 5 | 5.23 | 134.22 | 1.78 |
| PCC-Allegro | 5 | 326.99 | 216.78 | 5.12 |
| PCC-Expr | 5 | 277.91 | 220.15 | 3.62 |
| QUIC Cubic | 5 | 58.82 | 132.94 | 1.24 |
| SCReAM | 5 | 0.15 | 133.06 | 0.83 |
| Sprout | 5 | 0.69 | 133.15 | 1.04 |
| TaoVA-100x | 5 | 161.11 | 133.50 | 0.87 |
| TCP Vegas | 5 | 317.36 | 138.98 | 0.89 |
| Verus | 5 | 93.84 | 168.94 | 0.61 |
| PCC-Vivace | 5 | 256.00 | 139.23 | 1.41 |
| WebRTC media | 4 | 0.05 | 132.62 | 0.00 |

Run 1: Statistics of TCP BBR

```
Start at: 2019-03-19 04:23:47
End at: 2019-03-19 04:24:17
Local clock offset: 0.155 ms
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2019-03-19 07:23:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 449.49 Mbit/s
95th percentile per-packet one-way delay: 216.567 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 449.49 Mbit/s
95th percentile per-packet one-way delay: 216.567 ms
Loss rate: 1.34%
```

Run 1: Report of TCP BBR — Data Link

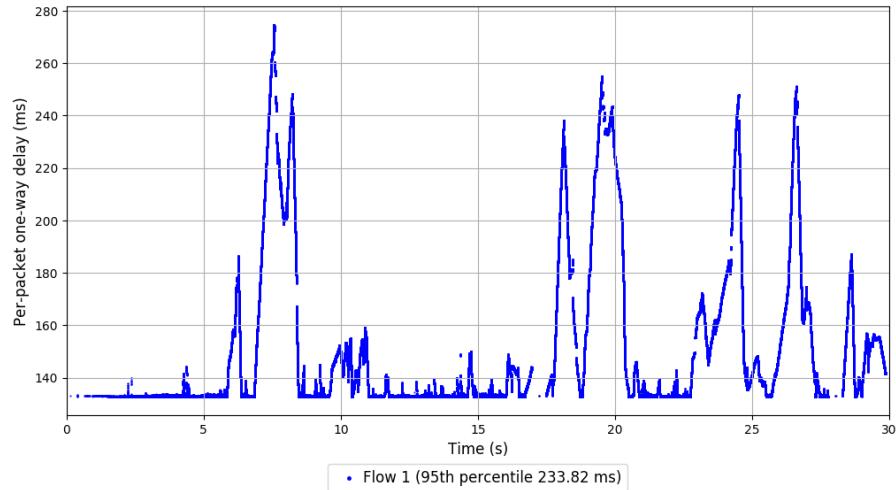
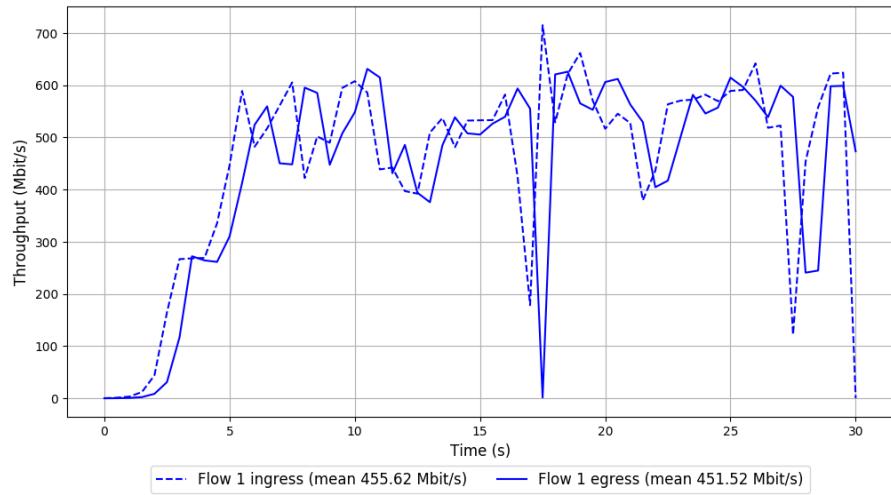


Run 2: Statistics of TCP BBR

```
Start at: 2019-03-19 04:59:14
End at: 2019-03-19 04:59:44
Local clock offset: -0.001 ms
Remote clock offset: -0.468 ms

# Below is generated by plot.py at 2019-03-19 07:23:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 451.52 Mbit/s
95th percentile per-packet one-way delay: 233.820 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 451.52 Mbit/s
95th percentile per-packet one-way delay: 233.820 ms
Loss rate: 1.78%
```

Run 2: Report of TCP BBR — Data Link

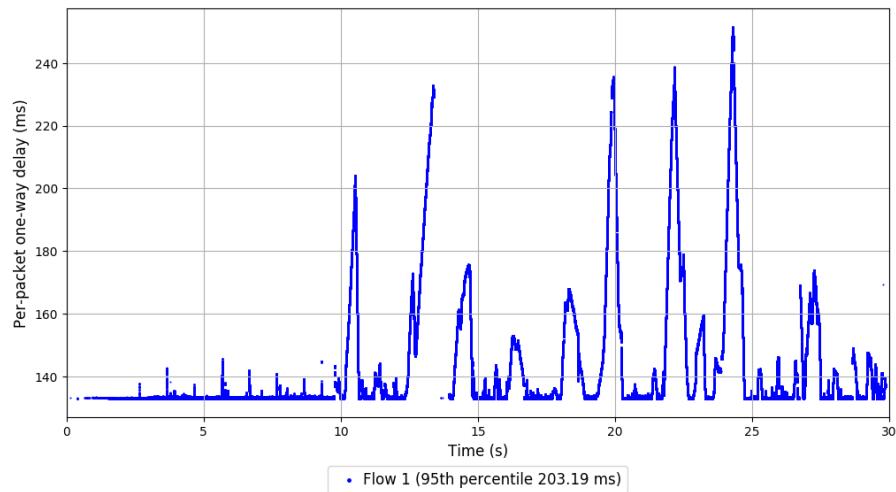
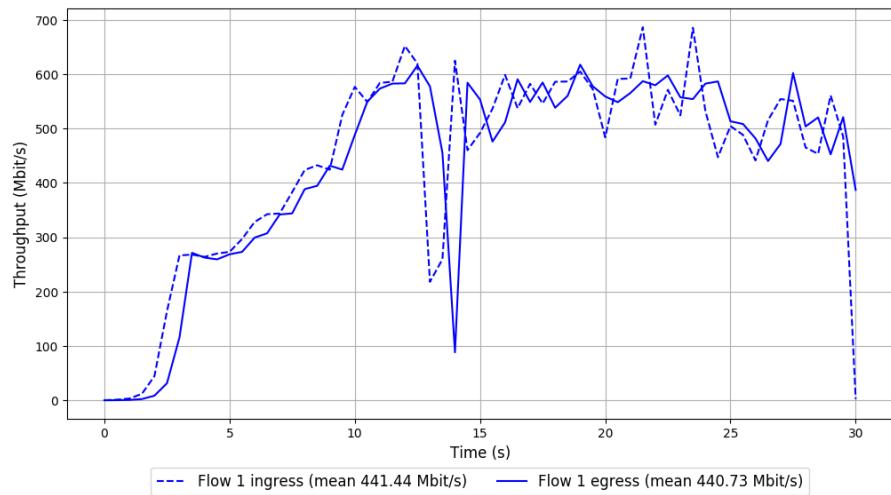


Run 3: Statistics of TCP BBR

```
Start at: 2019-03-19 05:33:08
End at: 2019-03-19 05:38:38
Local clock offset: -0.277 ms
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2019-03-19 07:23:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 440.73 Mbit/s
95th percentile per-packet one-way delay: 203.192 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 440.73 Mbit/s
95th percentile per-packet one-way delay: 203.192 ms
Loss rate: 1.05%
```

Run 3: Report of TCP BBR — Data Link

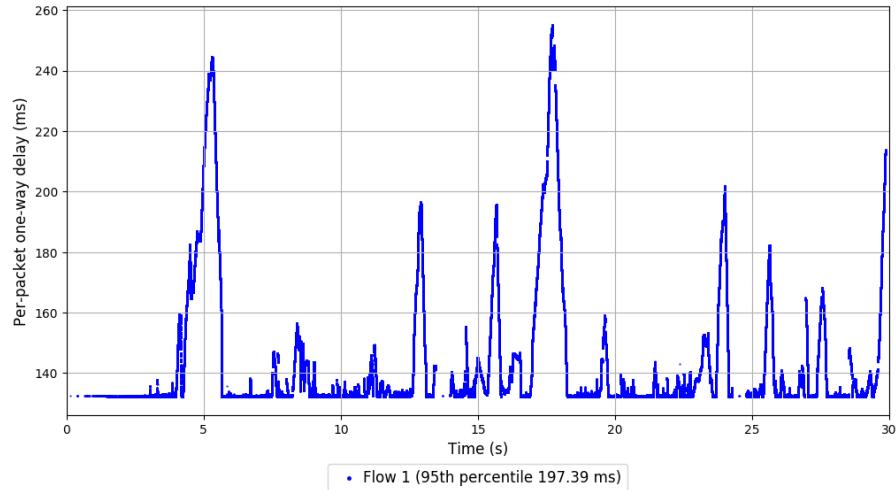
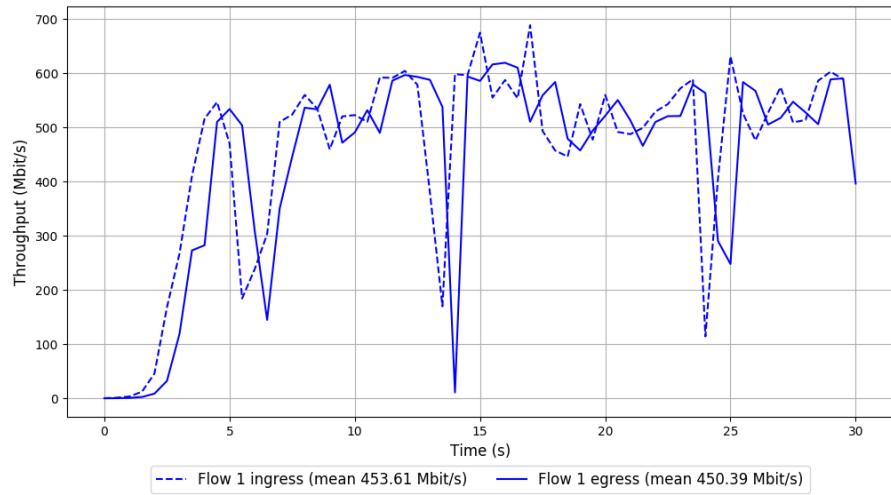


Run 4: Statistics of TCP BBR

```
Start at: 2019-03-19 06:07:28
End at: 2019-03-19 06:07:58
Local clock offset: 0.229 ms
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2019-03-19 07:23:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 450.39 Mbit/s
95th percentile per-packet one-way delay: 197.387 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 450.39 Mbit/s
95th percentile per-packet one-way delay: 197.387 ms
Loss rate: 1.59%
```

Run 4: Report of TCP BBR — Data Link

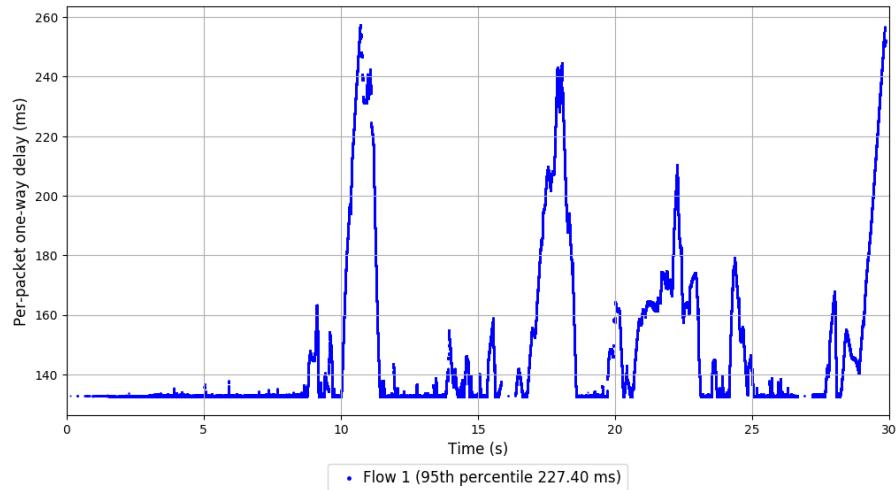
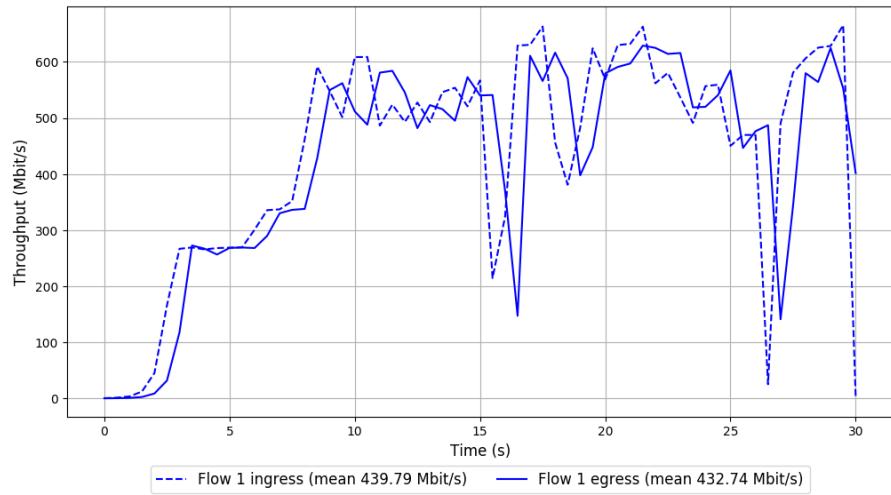


Run 5: Statistics of TCP BBR

```
Start at: 2019-03-19 06:41:34
End at: 2019-03-19 06:42:04
Local clock offset: 0.128 ms
Remote clock offset: -0.106 ms

# Below is generated by plot.py at 2019-03-19 07:23:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 432.74 Mbit/s
95th percentile per-packet one-way delay: 227.401 ms
Loss rate: 2.47%
-- Flow 1:
Average throughput: 432.74 Mbit/s
95th percentile per-packet one-way delay: 227.401 ms
Loss rate: 2.47%
```

Run 5: Report of TCP BBR — Data Link

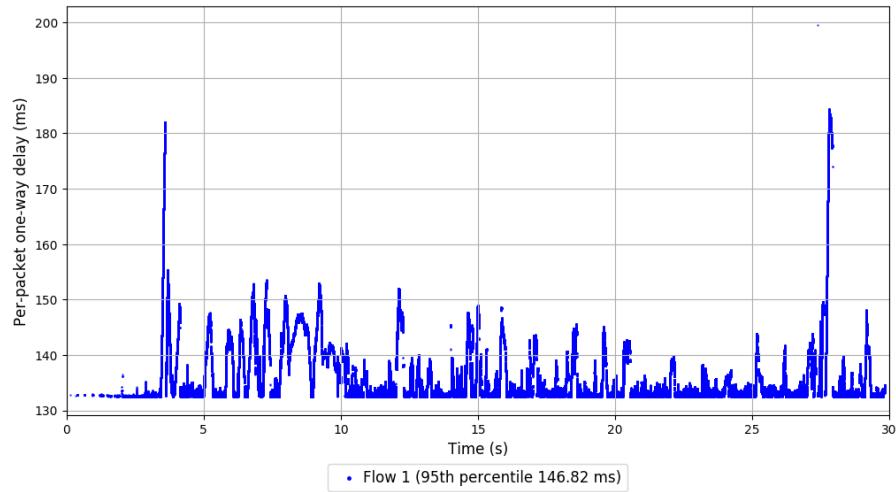
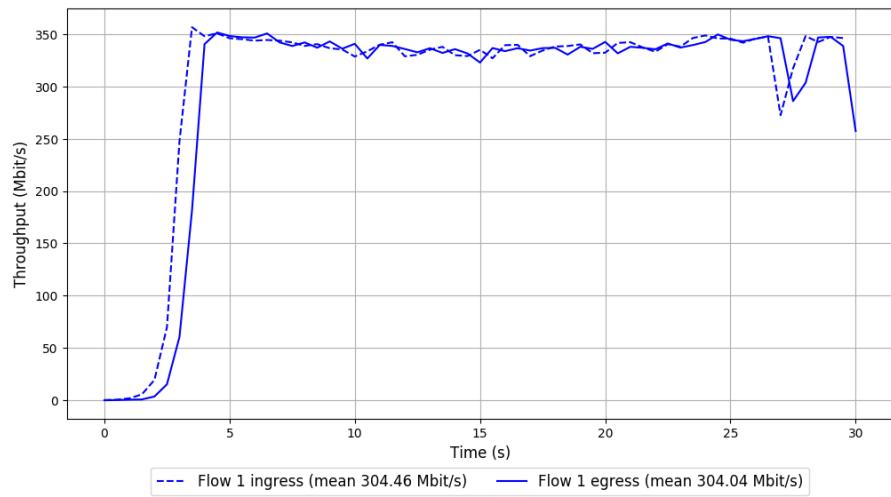


Run 1: Statistics of Copa

```
Start at: 2019-03-19 04:18:57
End at: 2019-03-19 04:19:27
Local clock offset: 0.107 ms
Remote clock offset: 0.33 ms

# Below is generated by plot.py at 2019-03-19 07:24:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 304.04 Mbit/s
95th percentile per-packet one-way delay: 146.824 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 304.04 Mbit/s
95th percentile per-packet one-way delay: 146.824 ms
Loss rate: 1.02%
```

Run 1: Report of Copa — Data Link

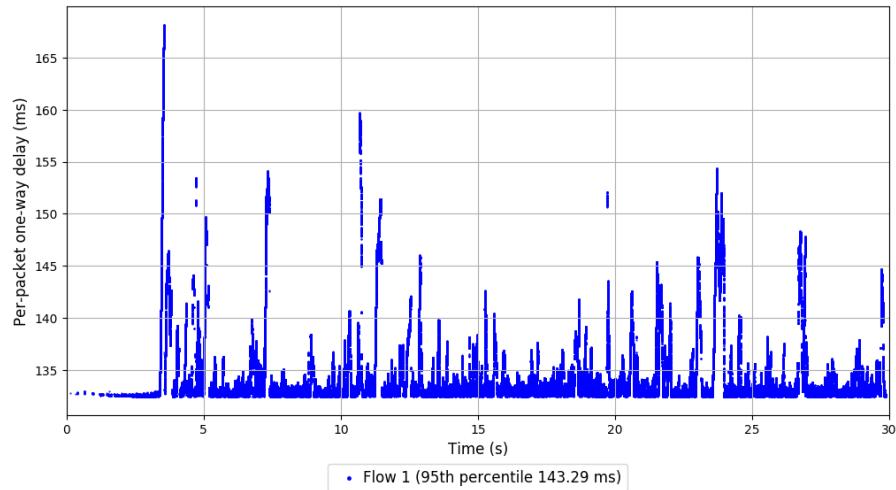
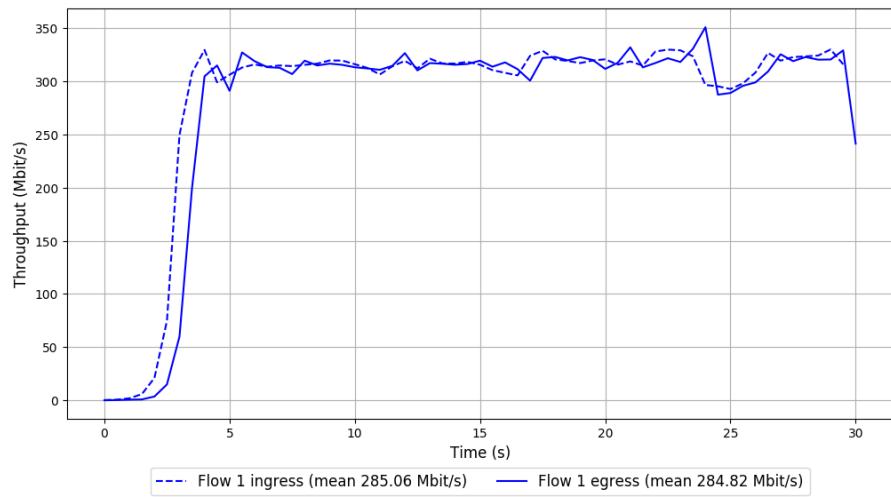


Run 2: Statistics of Copa

```
Start at: 2019-03-19 04:54:49
End at: 2019-03-19 04:55:19
Local clock offset: -0.297 ms
Remote clock offset: -0.44 ms

# Below is generated by plot.py at 2019-03-19 07:24:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 284.82 Mbit/s
95th percentile per-packet one-way delay: 143.290 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 284.82 Mbit/s
95th percentile per-packet one-way delay: 143.290 ms
Loss rate: 0.97%
```

Run 2: Report of Copa — Data Link

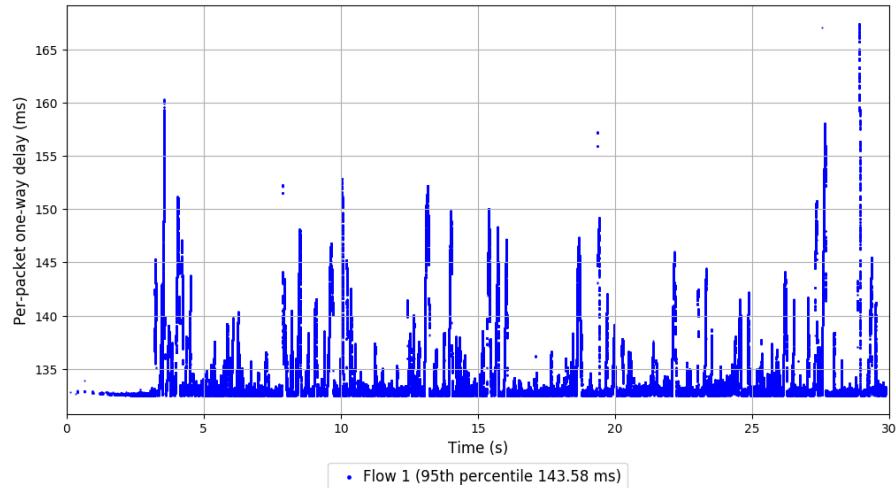
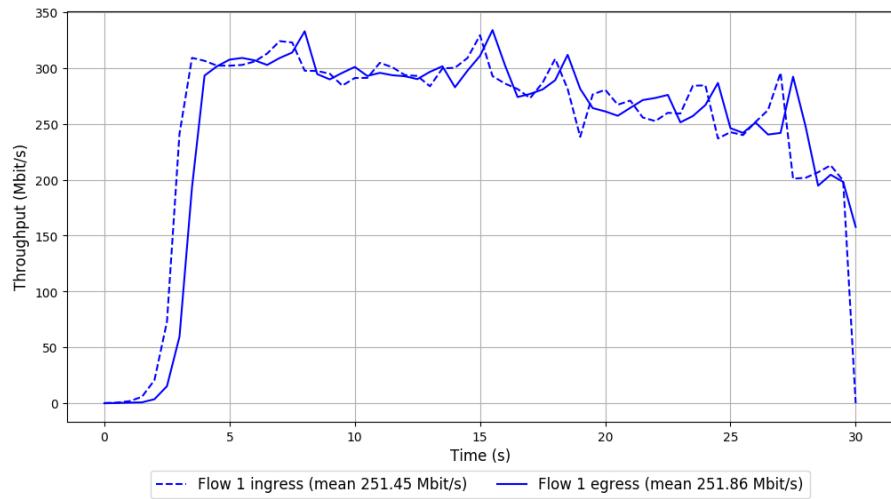


Run 3: Statistics of Copa

```
Start at: 2019-03-19 05:28:43
End at: 2019-03-19 05:29:13
Local clock offset: -0.557 ms
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2019-03-19 07:24:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 251.86 Mbit/s
95th percentile per-packet one-way delay: 143.582 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 251.86 Mbit/s
95th percentile per-packet one-way delay: 143.582 ms
Loss rate: 0.73%
```

Run 3: Report of Copa — Data Link

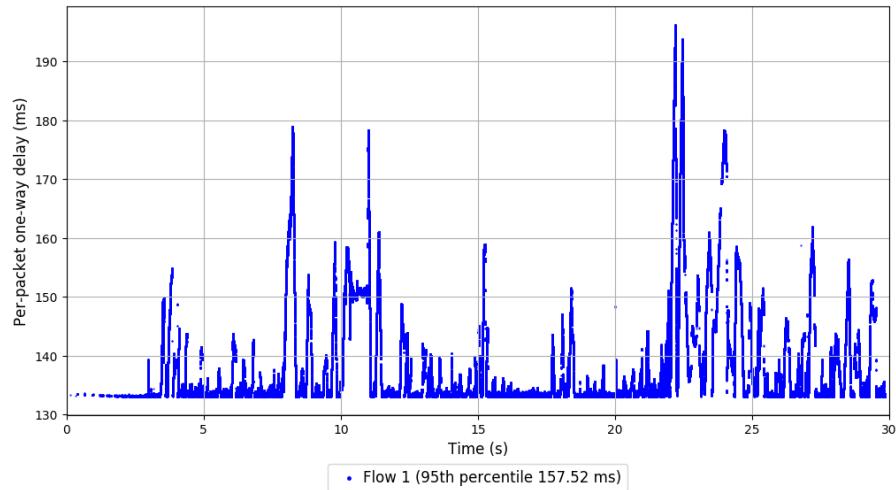
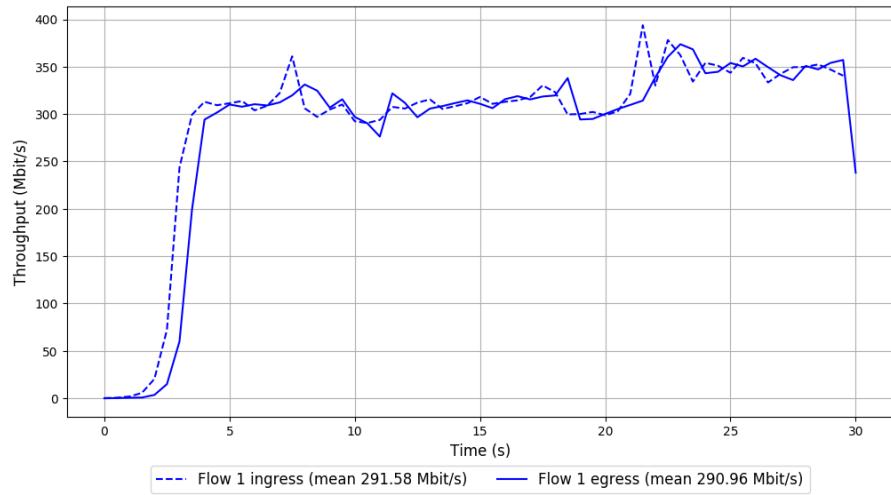


Run 4: Statistics of Copa

```
Start at: 2019-03-19 06:02:22
End at: 2019-03-19 06:02:52
Local clock offset: -0.049 ms
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2019-03-19 07:31:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 290.96 Mbit/s
95th percentile per-packet one-way delay: 157.516 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 290.96 Mbit/s
95th percentile per-packet one-way delay: 157.516 ms
Loss rate: 1.10%
```

Run 4: Report of Copa — Data Link

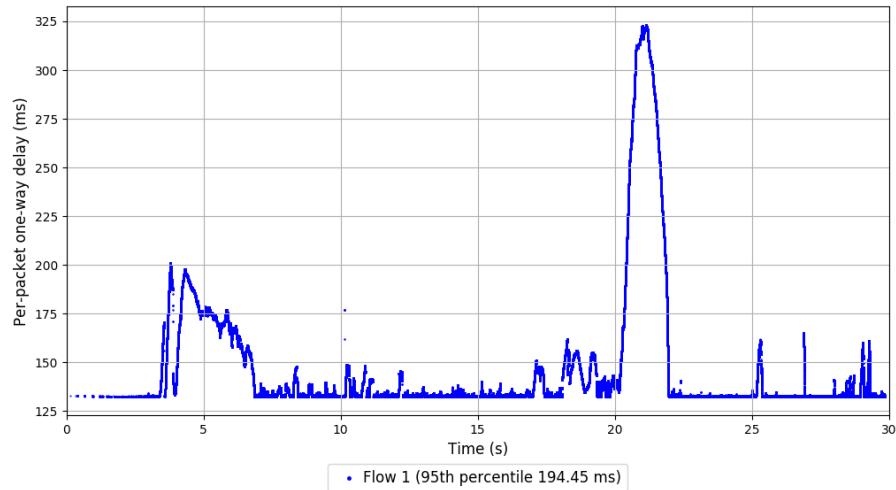
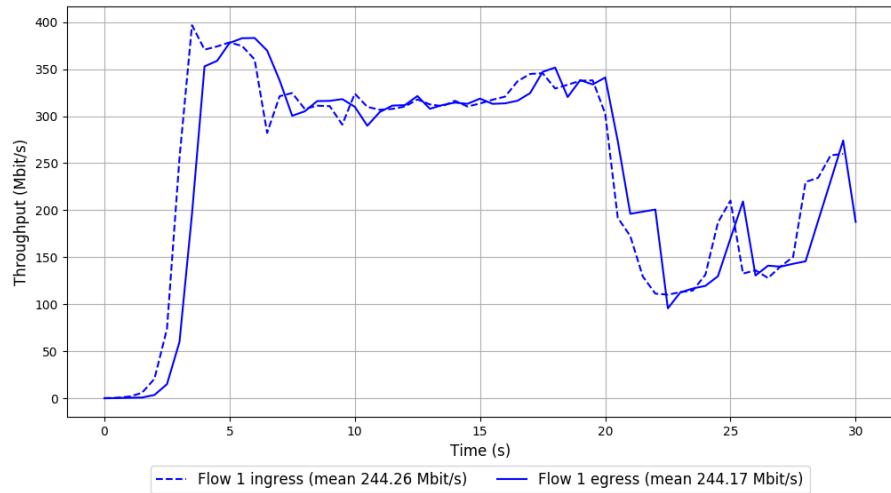


Run 5: Statistics of Copa

```
Start at: 2019-03-19 06:36:38
End at: 2019-03-19 06:37:09
Local clock offset: -0.056 ms
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2019-03-19 07:31:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 244.17 Mbit/s
95th percentile per-packet one-way delay: 194.447 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 244.17 Mbit/s
95th percentile per-packet one-way delay: 194.447 ms
Loss rate: 0.93%
```

Run 5: Report of Copa — Data Link

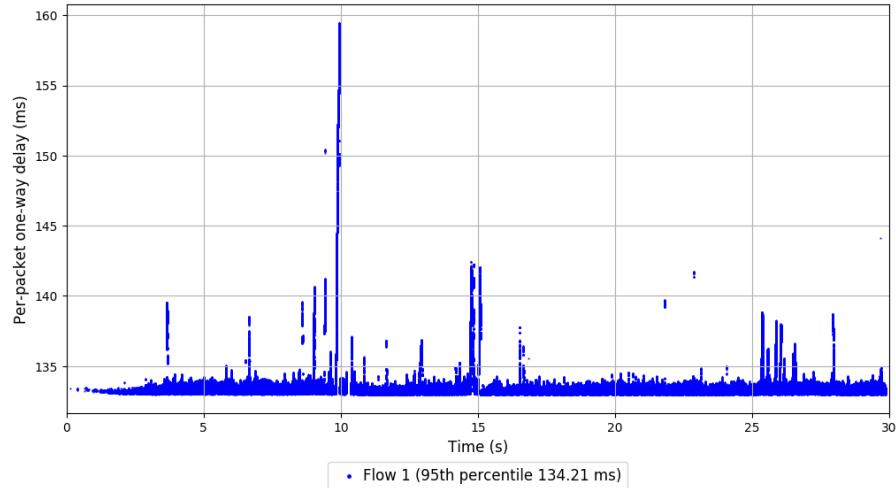
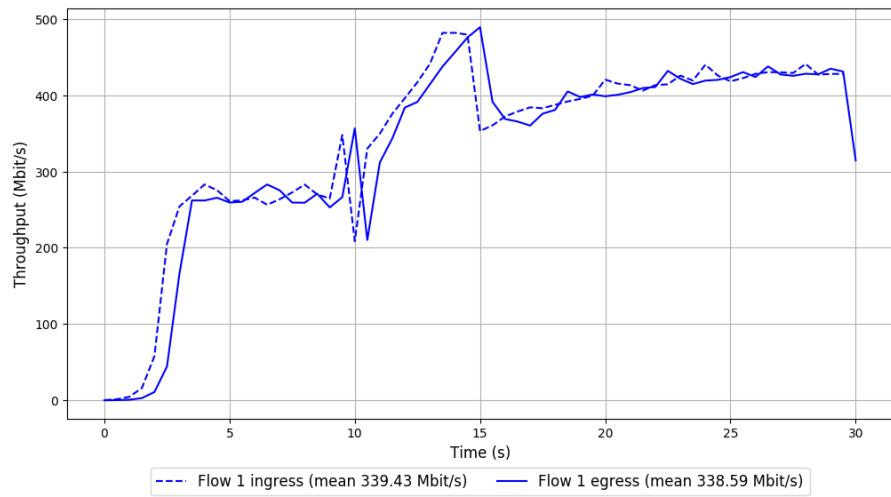


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-03-19 04:40:47
End at: 2019-03-19 04:41:17
Local clock offset: -0.118 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2019-03-19 07:31:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 338.59 Mbit/s
95th percentile per-packet one-way delay: 134.211 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 338.59 Mbit/s
95th percentile per-packet one-way delay: 134.211 ms
Loss rate: 1.13%
```

Run 1: Report of TCP Cubic — Data Link

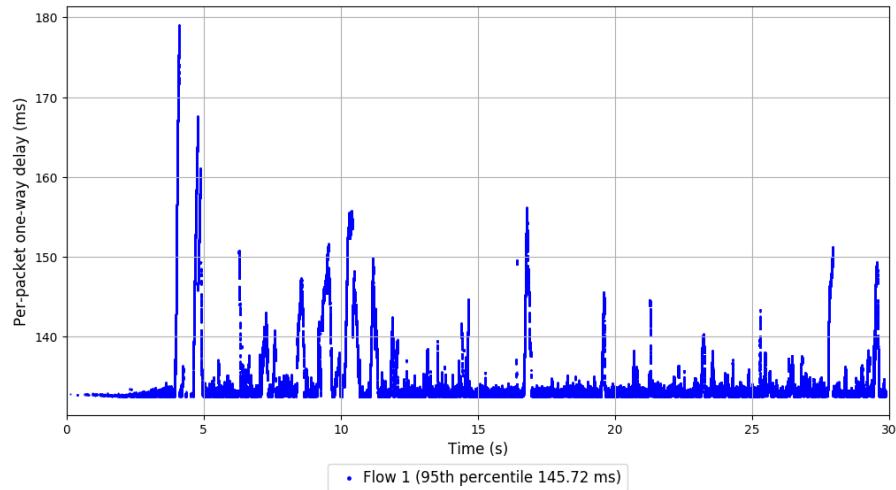
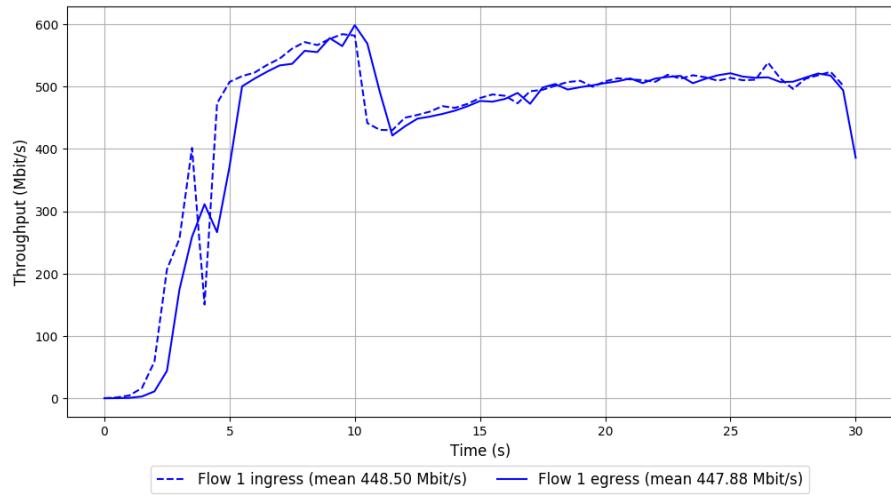


Run 2: Statistics of TCP Cubic

```
Start at: 2019-03-19 05:16:02
End at: 2019-03-19 05:16:32
Local clock offset: -0.411 ms
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2019-03-19 07:31:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 447.88 Mbit/s
95th percentile per-packet one-way delay: 145.718 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 447.88 Mbit/s
95th percentile per-packet one-way delay: 145.718 ms
Loss rate: 1.03%
```

Run 2: Report of TCP Cubic — Data Link

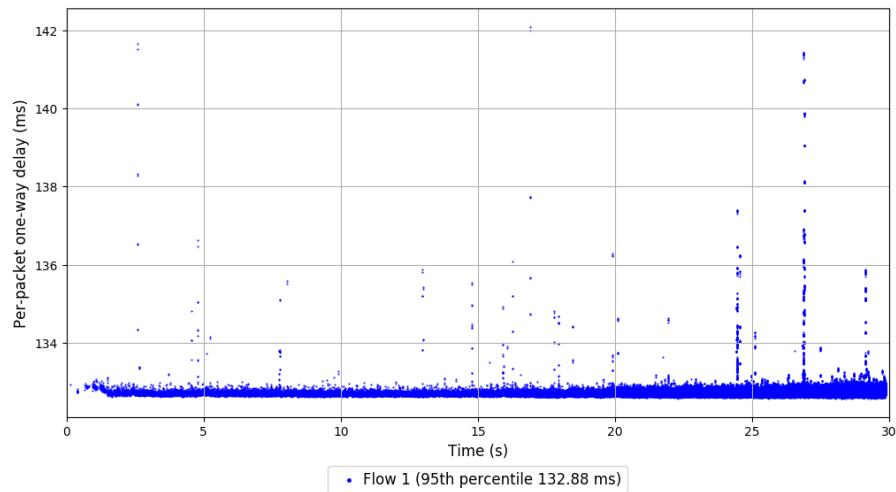
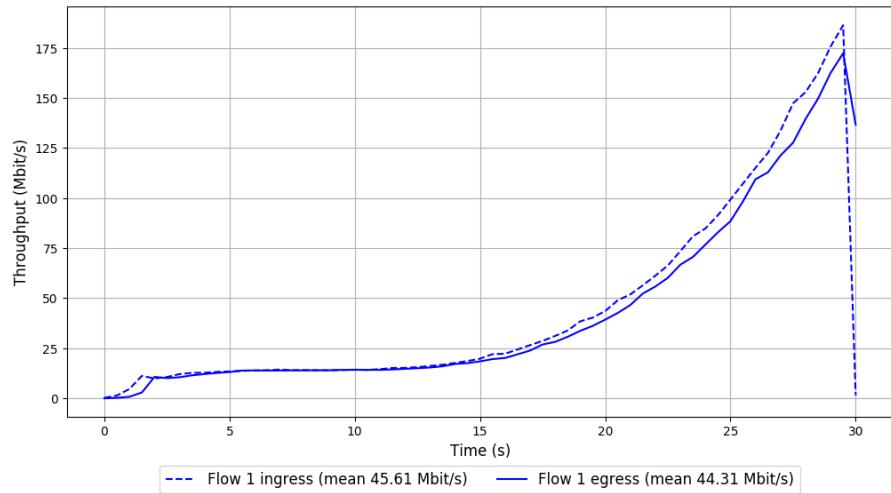


Run 3: Statistics of TCP Cubic

```
Start at: 2019-03-19 05:49:29
End at: 2019-03-19 05:49:59
Local clock offset: 0.058 ms
Remote clock offset: -0.124 ms

# Below is generated by plot.py at 2019-03-19 07:31:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.31 Mbit/s
95th percentile per-packet one-way delay: 132.876 ms
Loss rate: 3.72%
-- Flow 1:
Average throughput: 44.31 Mbit/s
95th percentile per-packet one-way delay: 132.876 ms
Loss rate: 3.72%
```

Run 3: Report of TCP Cubic — Data Link

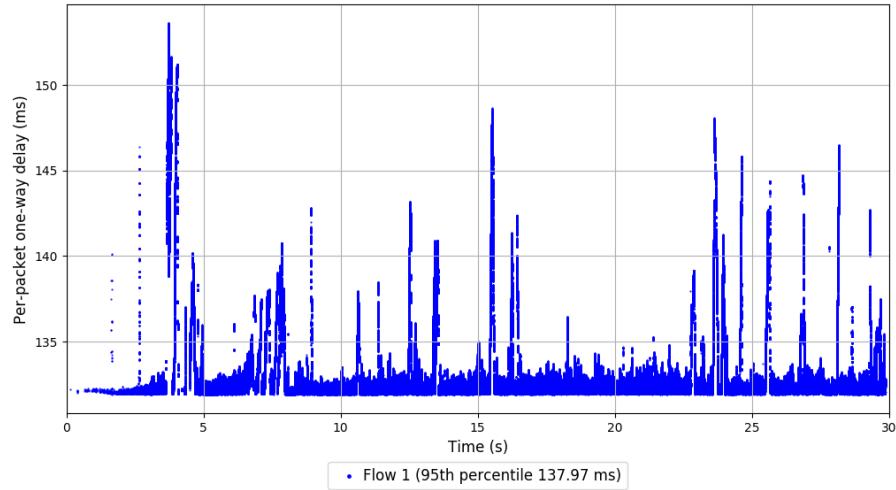
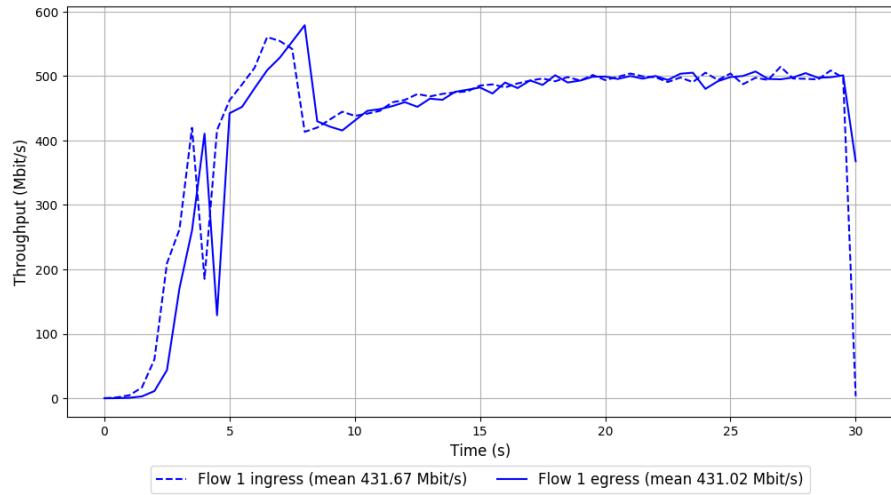


Run 4: Statistics of TCP Cubic

```
Start at: 2019-03-19 06:23:16
End at: 2019-03-19 06:23:46
Local clock offset: -0.037 ms
Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2019-03-19 07:31:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 431.02 Mbit/s
95th percentile per-packet one-way delay: 137.971 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 431.02 Mbit/s
95th percentile per-packet one-way delay: 137.971 ms
Loss rate: 1.03%
```

Run 4: Report of TCP Cubic — Data Link

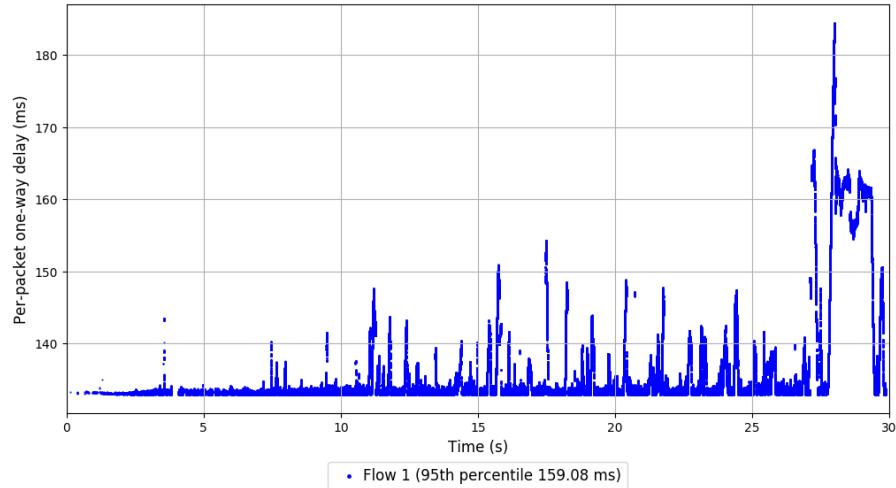
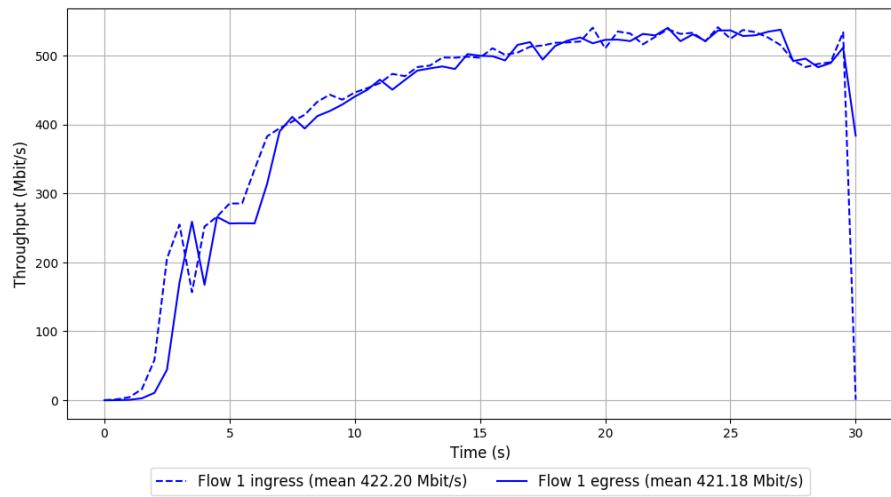


Run 5: Statistics of TCP Cubic

```
Start at: 2019-03-19 06:57:20
End at: 2019-03-19 06:57:50
Local clock offset: -0.074 ms
Remote clock offset: -0.119 ms

# Below is generated by plot.py at 2019-03-19 07:31:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 421.18 Mbit/s
95th percentile per-packet one-way delay: 159.079 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 421.18 Mbit/s
95th percentile per-packet one-way delay: 159.079 ms
Loss rate: 1.13%
```

Run 5: Report of TCP Cubic — Data Link

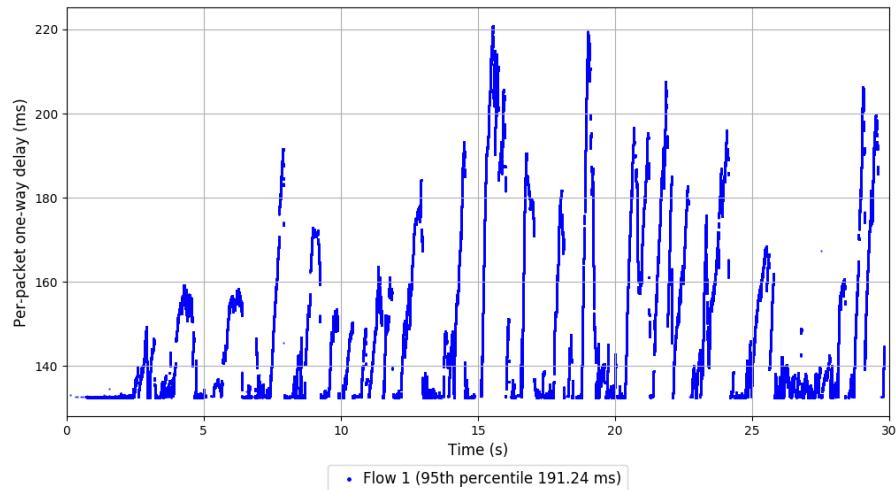
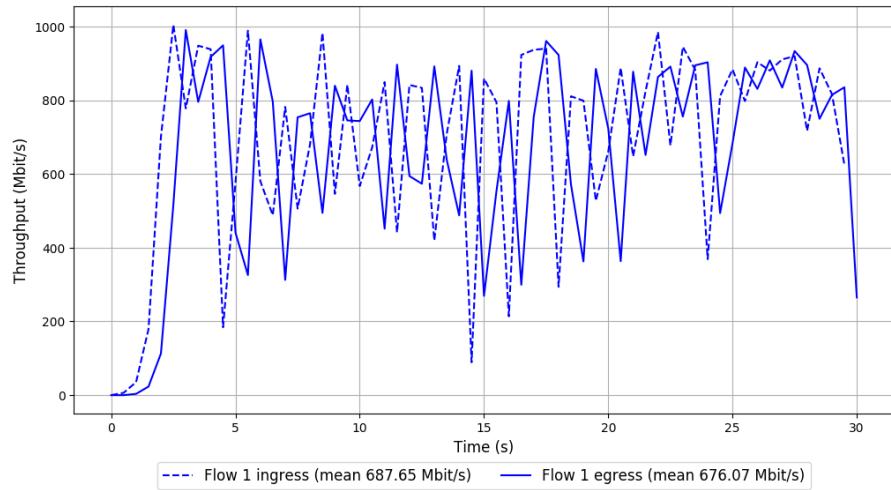


```
Run 1: Statistics of FillP

Start at: 2019-03-19 04:46:40
End at: 2019-03-19 04:47:10
Local clock offset: 0.158 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-03-19 07:38:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 676.07 Mbit/s
95th percentile per-packet one-way delay: 191.235 ms
Loss rate: 2.56%
-- Flow 1:
Average throughput: 676.07 Mbit/s
95th percentile per-packet one-way delay: 191.235 ms
Loss rate: 2.56%
```

Run 1: Report of FillP — Data Link

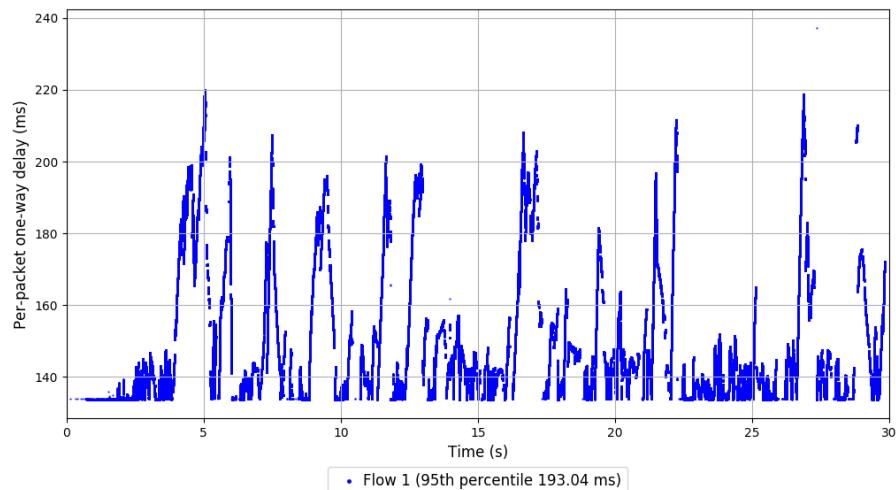
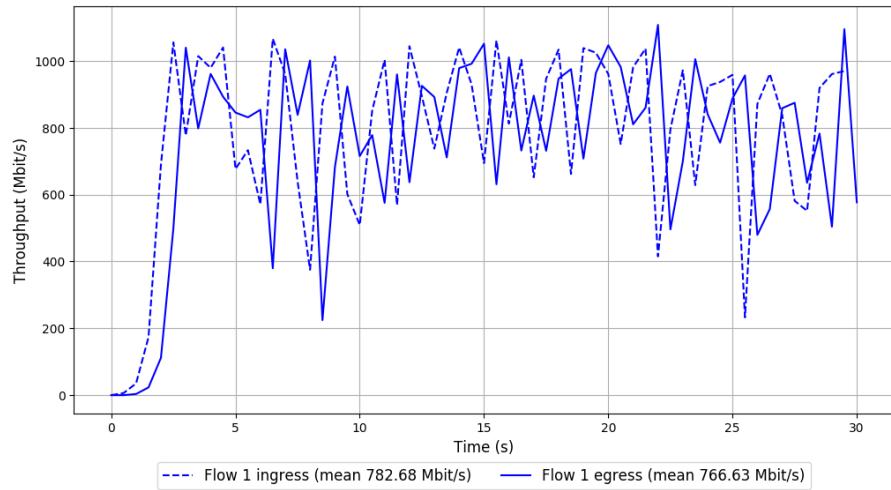


Run 2: Statistics of FillP

```
Start at: 2019-03-19 05:21:10
End at: 2019-03-19 05:21:40
Local clock offset: 0.188 ms
Remote clock offset: -0.131 ms

# Below is generated by plot.py at 2019-03-19 07:41:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 766.63 Mbit/s
95th percentile per-packet one-way delay: 193.044 ms
Loss rate: 2.92%
-- Flow 1:
Average throughput: 766.63 Mbit/s
95th percentile per-packet one-way delay: 193.044 ms
Loss rate: 2.92%
```

Run 2: Report of FillP — Data Link

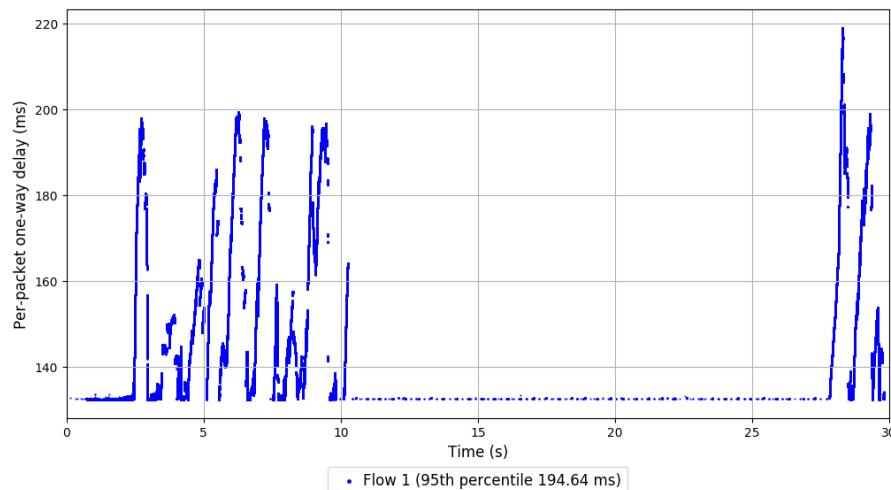
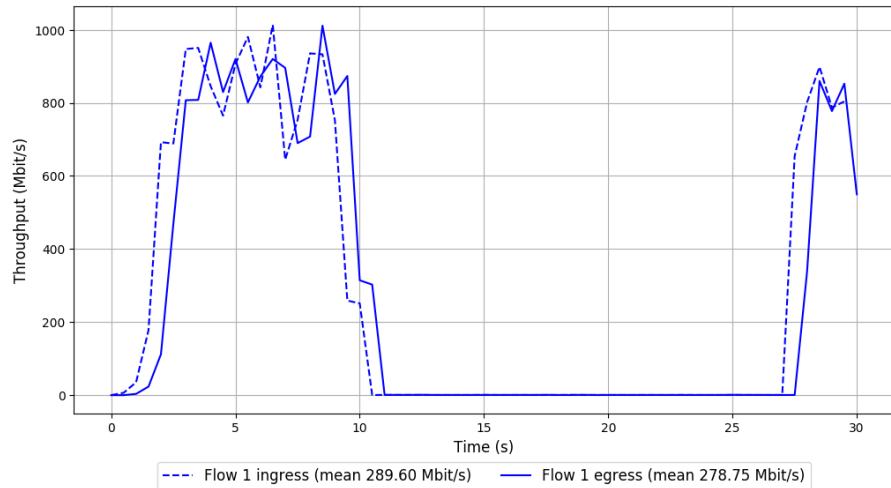


```
Run 3: Statistics of FillP
```

```
Start at: 2019-03-19 05:54:41
End at: 2019-03-19 05:55:11
Local clock offset: -0.329 ms
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2019-03-19 07:41:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 278.75 Mbit/s
95th percentile per-packet one-way delay: 194.637 ms
Loss rate: 4.60%
-- Flow 1:
Average throughput: 278.75 Mbit/s
95th percentile per-packet one-way delay: 194.637 ms
Loss rate: 4.60%
```

Run 3: Report of FillP — Data Link

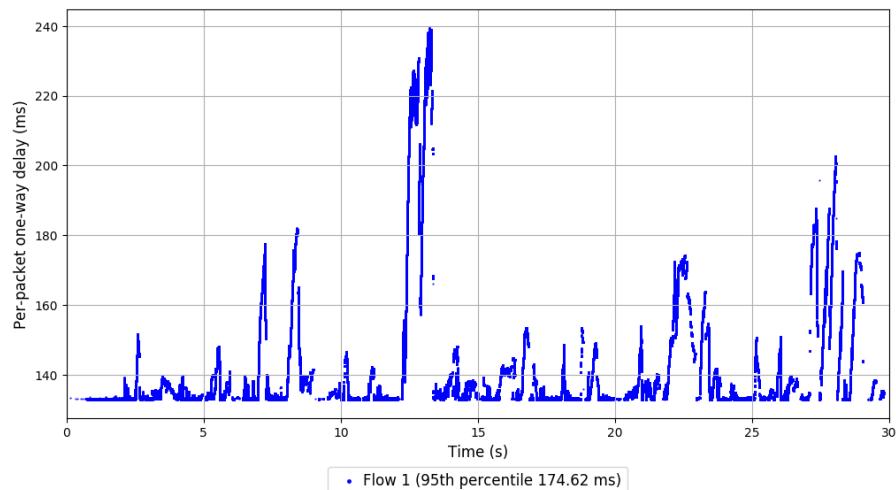
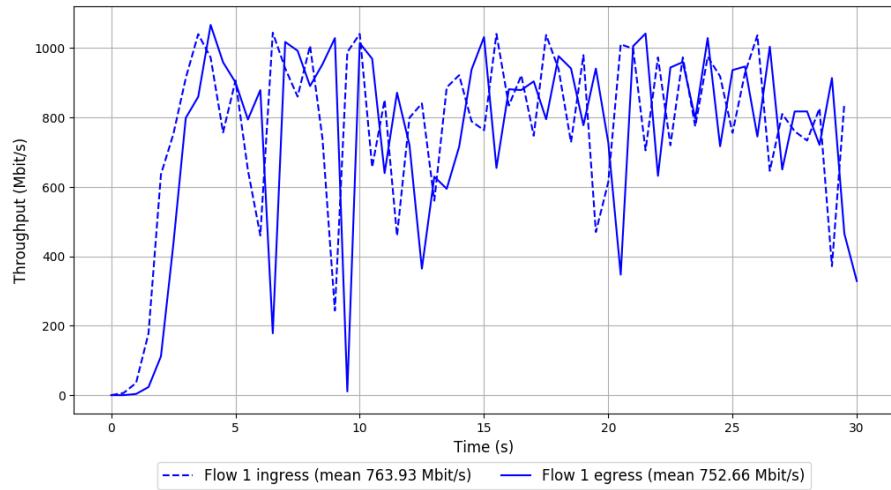


```
Run 4: Statistics of FillP
```

```
Start at: 2019-03-19 06:28:44
End at: 2019-03-19 06:29:14
Local clock offset: -0.003 ms
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2019-03-19 07:46:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 752.66 Mbit/s
95th percentile per-packet one-way delay: 174.615 ms
Loss rate: 2.35%
-- Flow 1:
Average throughput: 752.66 Mbit/s
95th percentile per-packet one-way delay: 174.615 ms
Loss rate: 2.35%
```

Run 4: Report of FillP — Data Link

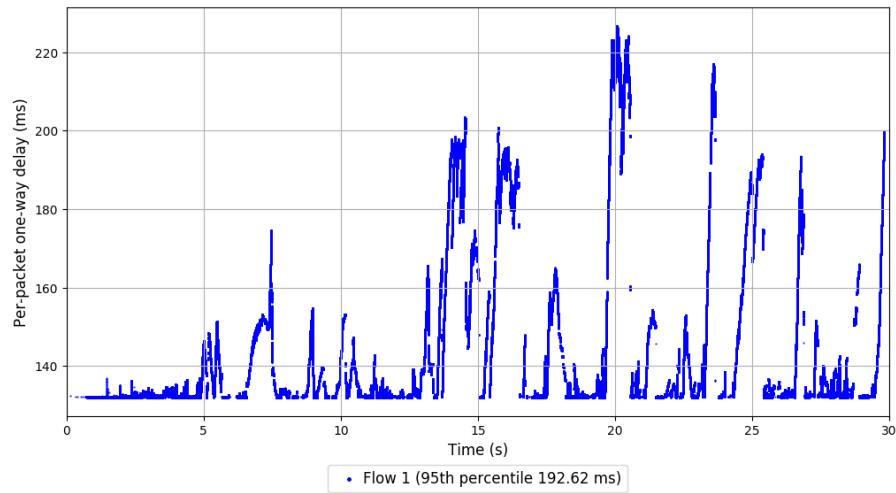
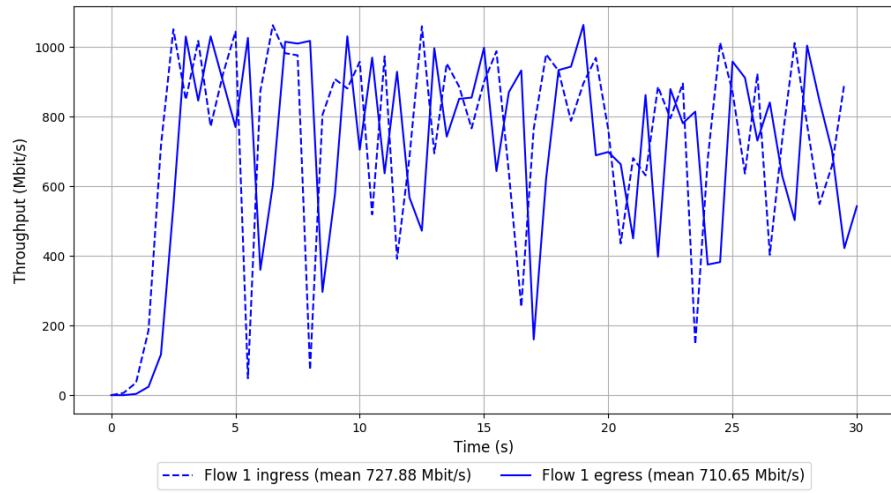


Run 5: Statistics of FillP

```
Start at: 2019-03-19 07:02:48
End at: 2019-03-19 07:03:18
Local clock offset: -0.316 ms
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2019-03-19 07:46:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 710.65 Mbit/s
95th percentile per-packet one-way delay: 192.620 ms
Loss rate: 3.24%
-- Flow 1:
Average throughput: 710.65 Mbit/s
95th percentile per-packet one-way delay: 192.620 ms
Loss rate: 3.24%
```

Run 5: Report of FillP — Data Link

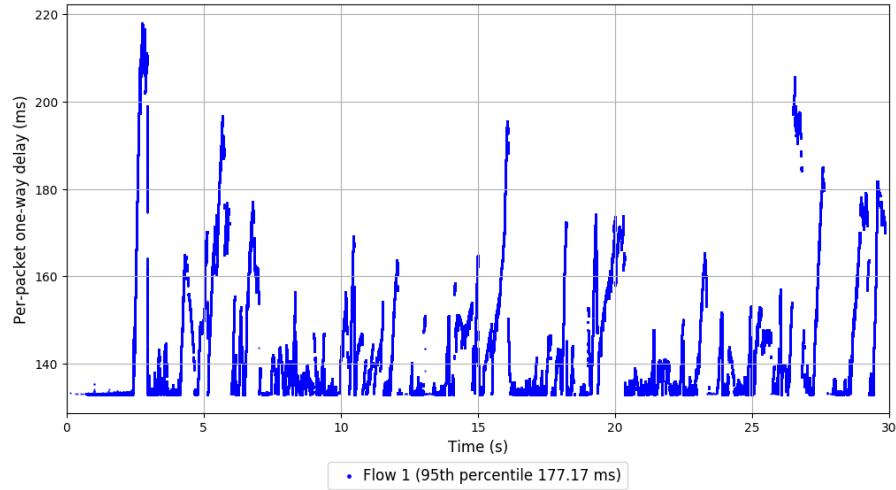
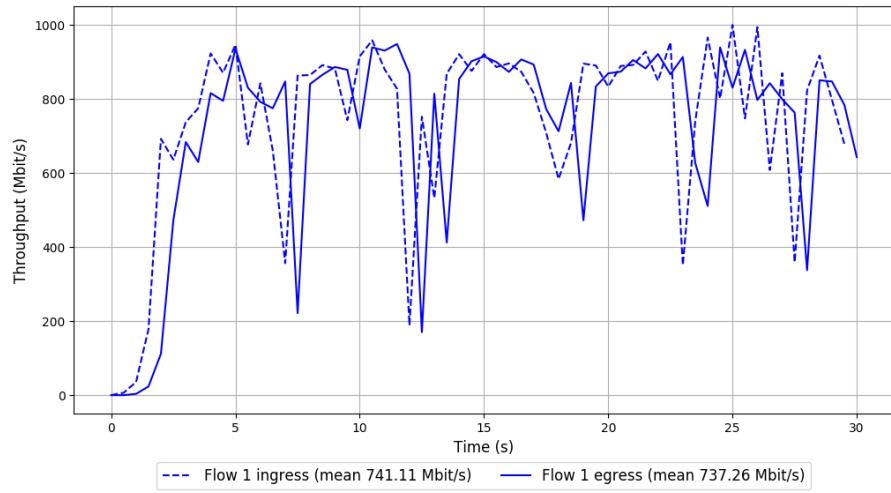


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-03-19 04:29:54
End at: 2019-03-19 04:30:24
Local clock offset: -0.164 ms
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2019-03-19 07:46:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 737.26 Mbit/s
95th percentile per-packet one-way delay: 177.174 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 737.26 Mbit/s
95th percentile per-packet one-way delay: 177.174 ms
Loss rate: 1.40%
```

Run 1: Report of FillP-Sheep — Data Link

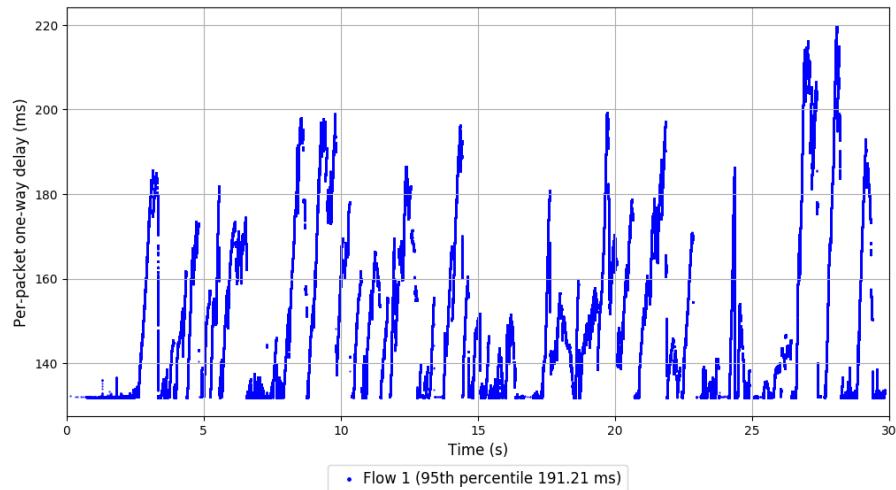
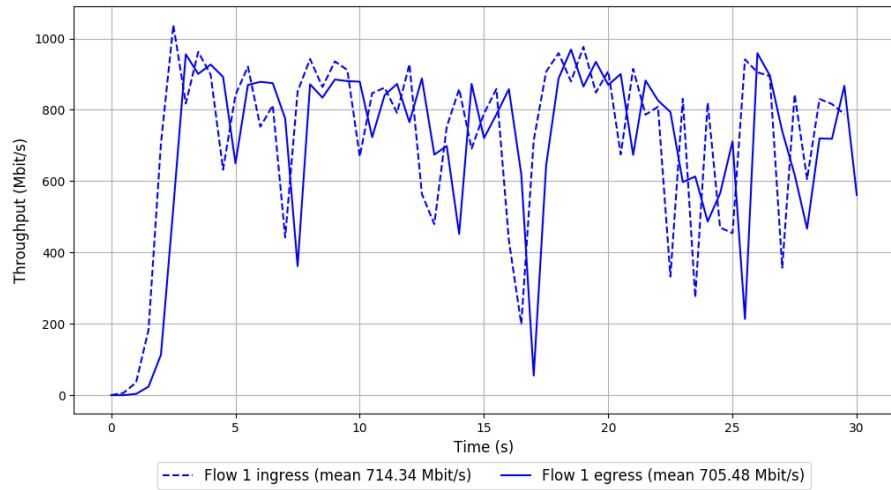


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-03-19 05:05:29
End at: 2019-03-19 05:05:59
Local clock offset: 0.214 ms
Remote clock offset: 0.27 ms

# Below is generated by plot.py at 2019-03-19 07:46:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 705.48 Mbit/s
95th percentile per-packet one-way delay: 191.209 ms
Loss rate: 2.11%
-- Flow 1:
Average throughput: 705.48 Mbit/s
95th percentile per-packet one-way delay: 191.209 ms
Loss rate: 2.11%
```

Run 2: Report of FillP-Sheep — Data Link

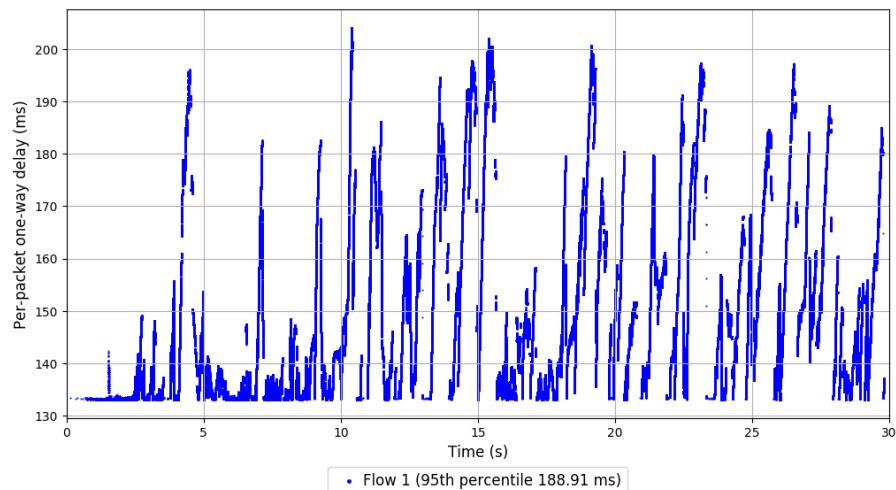
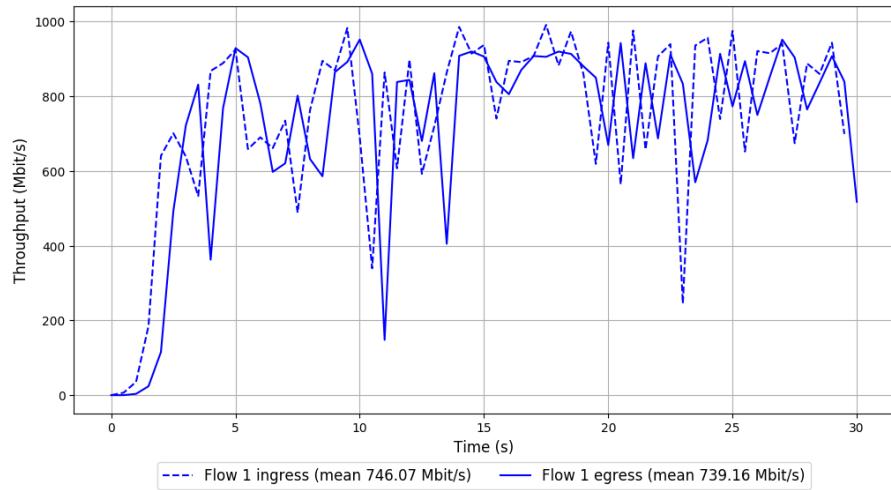


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-03-19 05:38:47
End at: 2019-03-19 05:39:17
Local clock offset: -0.074 ms
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2019-03-19 07:47:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 739.16 Mbit/s
95th percentile per-packet one-way delay: 188.910 ms
Loss rate: 1.81%
-- Flow 1:
Average throughput: 739.16 Mbit/s
95th percentile per-packet one-way delay: 188.910 ms
Loss rate: 1.81%
```

Run 3: Report of FillP-Sheep — Data Link

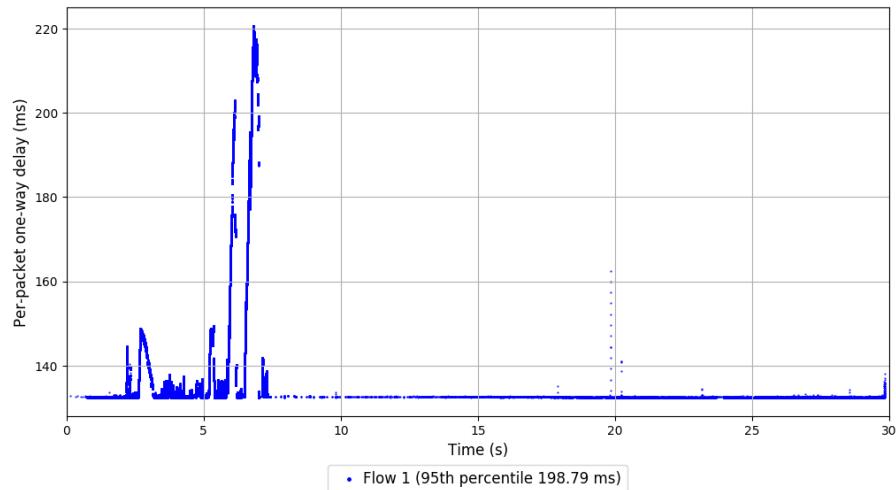
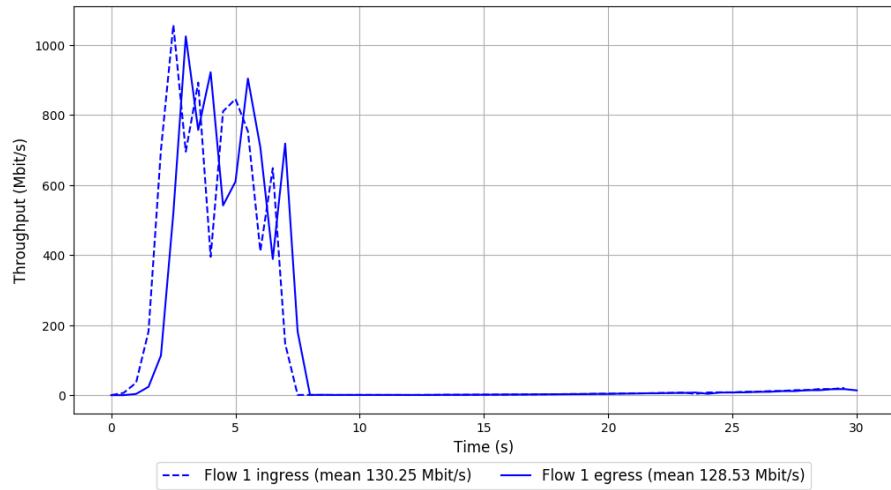


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-03-19 06:13:13
End at: 2019-03-19 06:13:43
Local clock offset: -0.012 ms
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2019-03-19 07:47:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 128.53 Mbit/s
95th percentile per-packet one-way delay: 198.795 ms
Loss rate: 2.23%
-- Flow 1:
Average throughput: 128.53 Mbit/s
95th percentile per-packet one-way delay: 198.795 ms
Loss rate: 2.23%
```

Run 4: Report of FillP-Sheep — Data Link

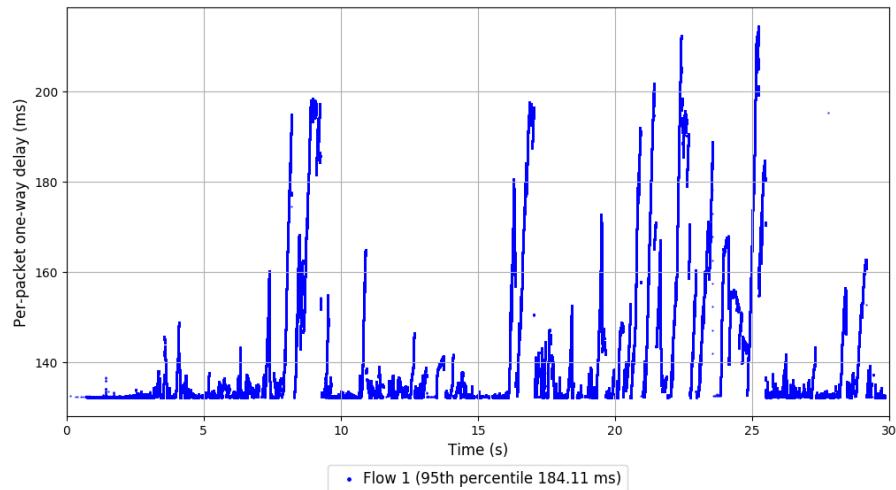
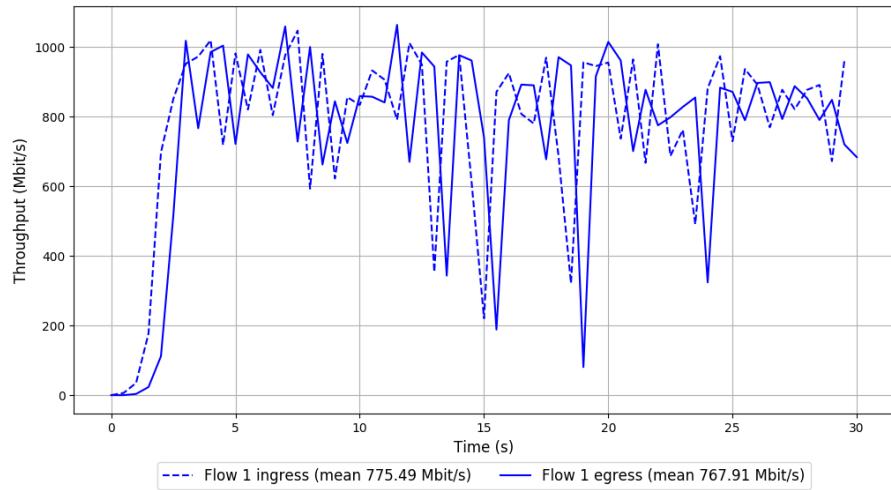


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-03-19 06:47:29
End at: 2019-03-19 06:47:59
Local clock offset: -0.295 ms
Remote clock offset: -0.116 ms

# Below is generated by plot.py at 2019-03-19 07:54:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 767.91 Mbit/s
95th percentile per-packet one-way delay: 184.113 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 767.91 Mbit/s
95th percentile per-packet one-way delay: 184.113 ms
Loss rate: 1.86%
```

Run 5: Report of FillP-Sheep — Data Link

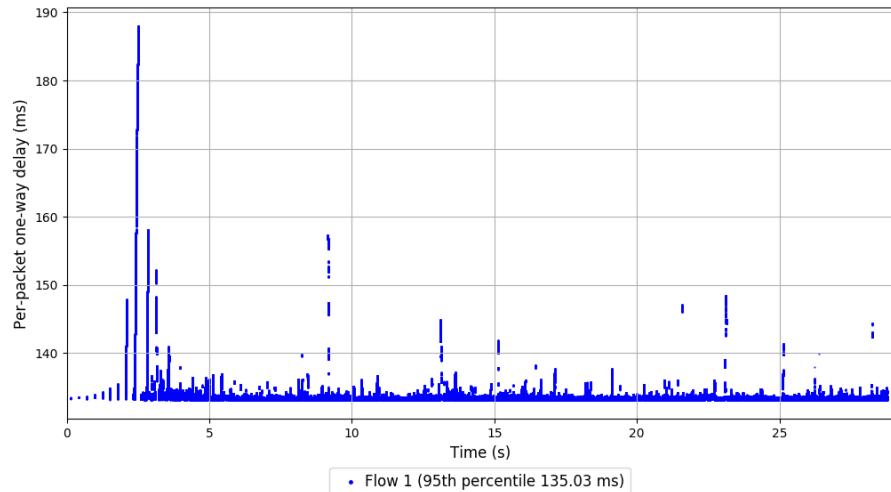
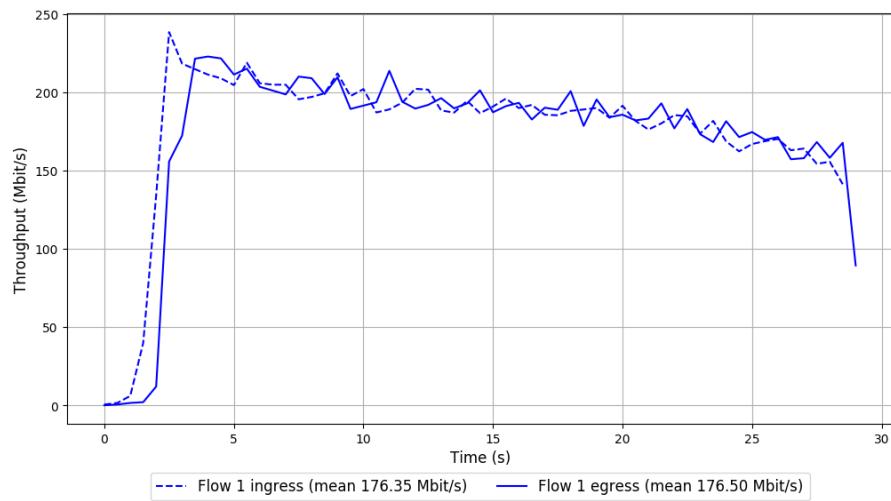


Run 1: Statistics of Indigo

```
Start at: 2019-03-19 04:34:09
End at: 2019-03-19 04:34:39
Local clock offset: 0.089 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2019-03-19 07:54:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 176.50 Mbit/s
95th percentile per-packet one-way delay: 135.033 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 176.50 Mbit/s
95th percentile per-packet one-way delay: 135.033 ms
Loss rate: 0.84%
```

Run 1: Report of Indigo — Data Link

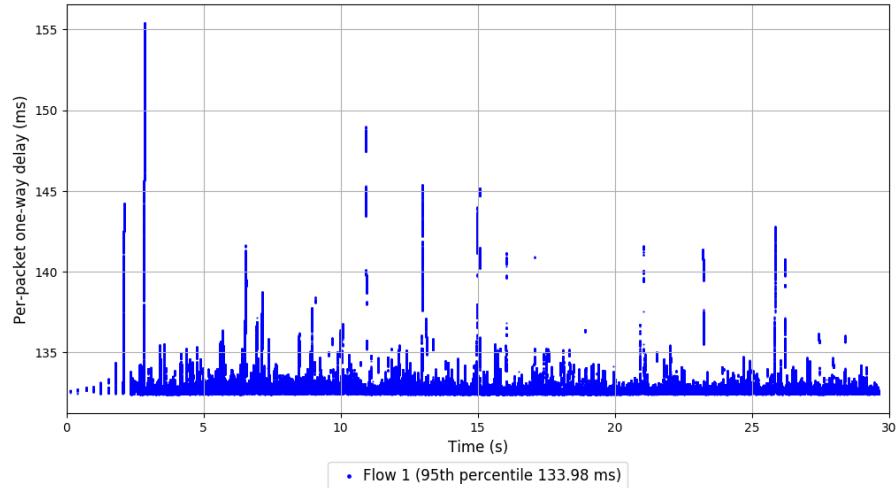
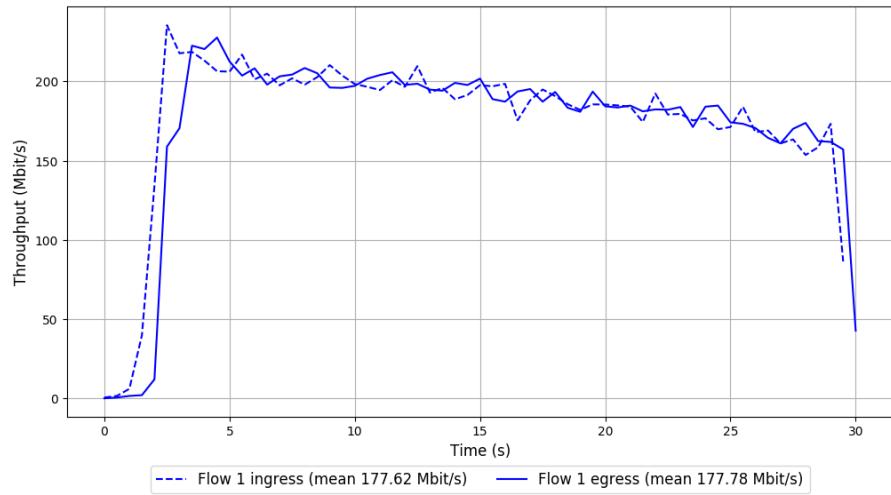


Run 2: Statistics of Indigo

```
Start at: 2019-03-19 05:10:02
End at: 2019-03-19 05:10:32
Local clock offset: -0.446 ms
Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2019-03-19 07:54:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 177.78 Mbit/s
95th percentile per-packet one-way delay: 133.981 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 177.78 Mbit/s
95th percentile per-packet one-way delay: 133.981 ms
Loss rate: 0.82%
```

Run 2: Report of Indigo — Data Link

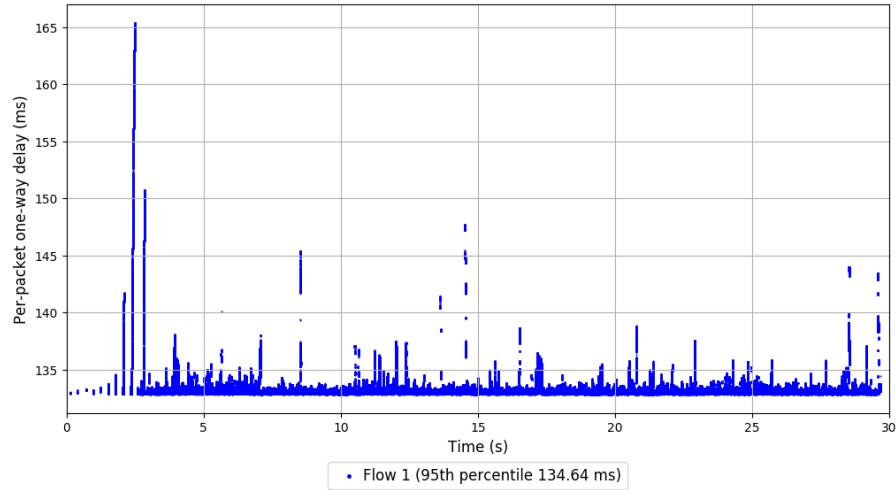
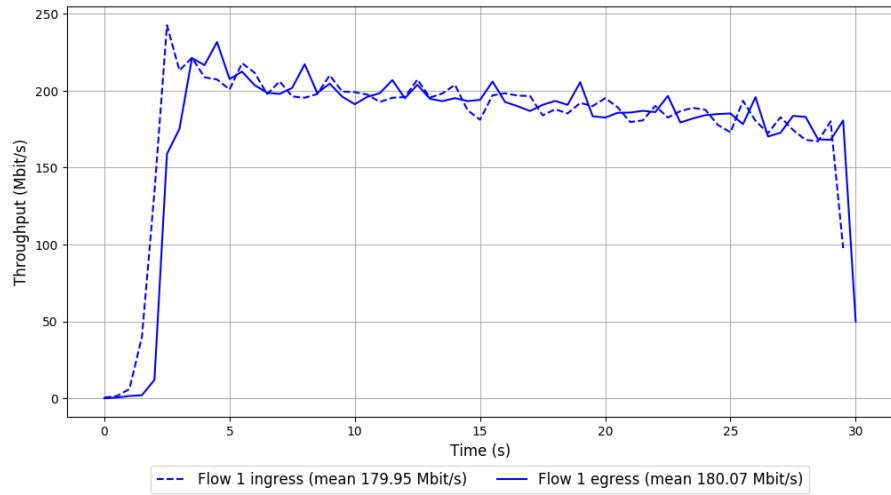


Run 3: Statistics of Indigo

```
Start at: 2019-03-19 05:42:43
End at: 2019-03-19 05:43:13
Local clock offset: -0.367 ms
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2019-03-19 07:54:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 180.07 Mbit/s
95th percentile per-packet one-way delay: 134.644 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 180.07 Mbit/s
95th percentile per-packet one-way delay: 134.644 ms
Loss rate: 0.83%
```

Run 3: Report of Indigo — Data Link

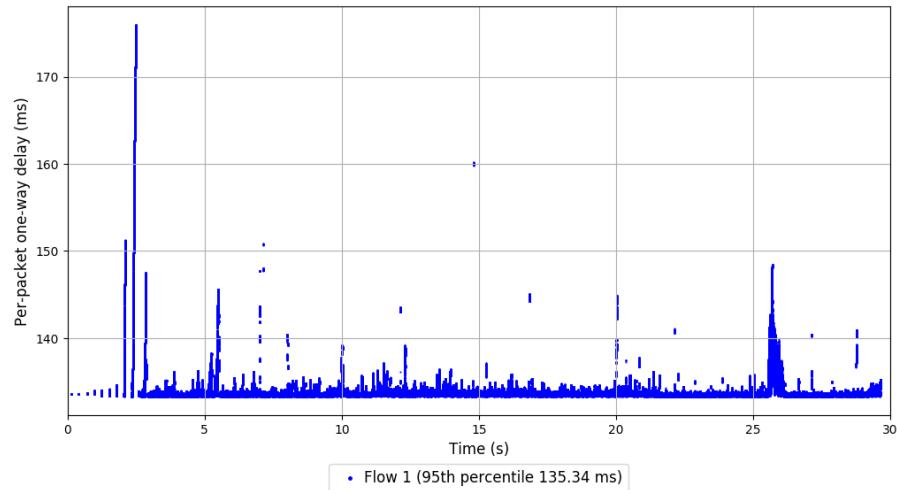
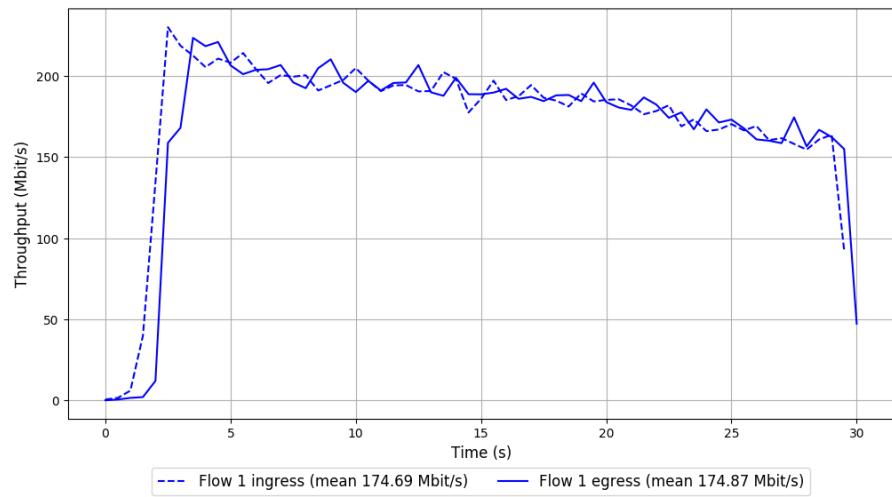


Run 4: Statistics of Indigo

```
Start at: 2019-03-19 06:16:26
End at: 2019-03-19 06:16:56
Local clock offset: 0.389 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2019-03-19 07:54:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 174.87 Mbit/s
95th percentile per-packet one-way delay: 135.335 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 174.87 Mbit/s
95th percentile per-packet one-way delay: 135.335 ms
Loss rate: 0.82%
```

Run 4: Report of Indigo — Data Link

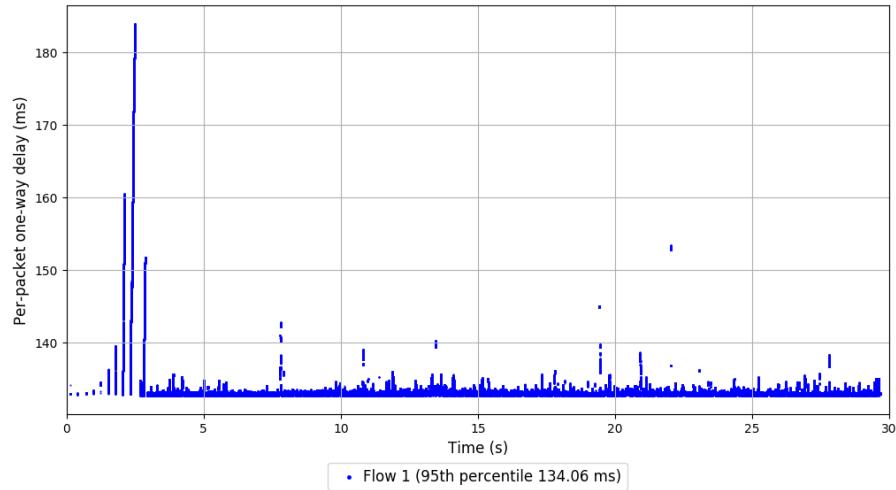
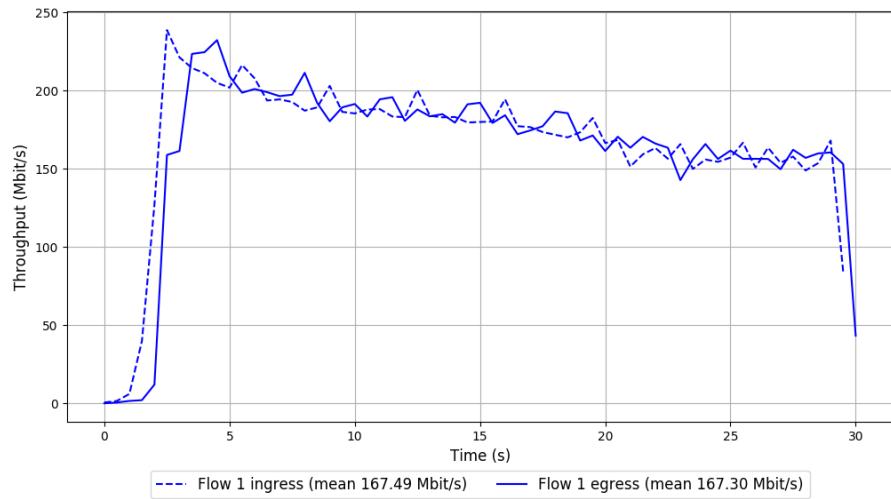


Run 5: Statistics of Indigo

```
Start at: 2019-03-19 06:51:26
End at: 2019-03-19 06:51:56
Local clock offset: -0.049 ms
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2019-03-19 07:54:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 167.30 Mbit/s
95th percentile per-packet one-way delay: 134.061 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 167.30 Mbit/s
95th percentile per-packet one-way delay: 134.061 ms
Loss rate: 0.84%
```

Run 5: Report of Indigo — Data Link

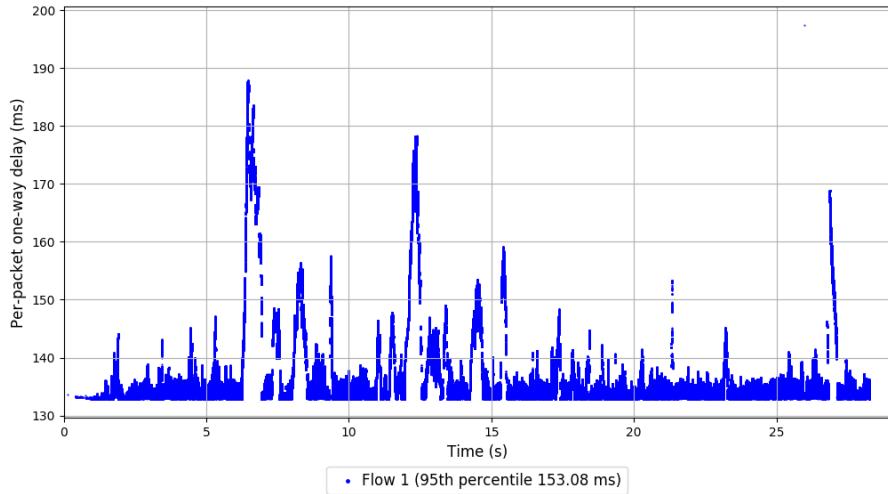
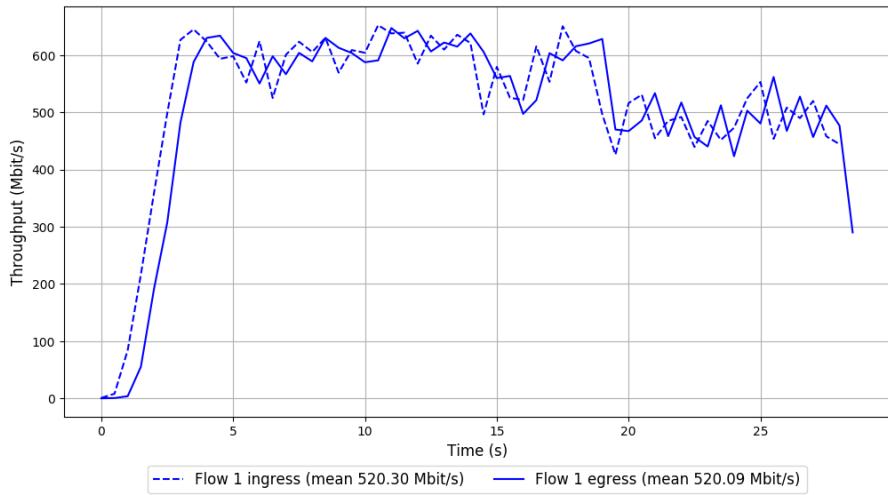


```
Run 1: Statistics of Indigo-MusesC3
```

```
Start at: 2019-03-19 04:35:59
End at: 2019-03-19 04:36:29
Local clock offset: -0.153 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2019-03-19 07:55:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 520.09 Mbit/s
95th percentile per-packet one-way delay: 153.083 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 520.09 Mbit/s
95th percentile per-packet one-way delay: 153.083 ms
Loss rate: 0.98%
```

Run 1: Report of Indigo-MusesC3 — Data Link

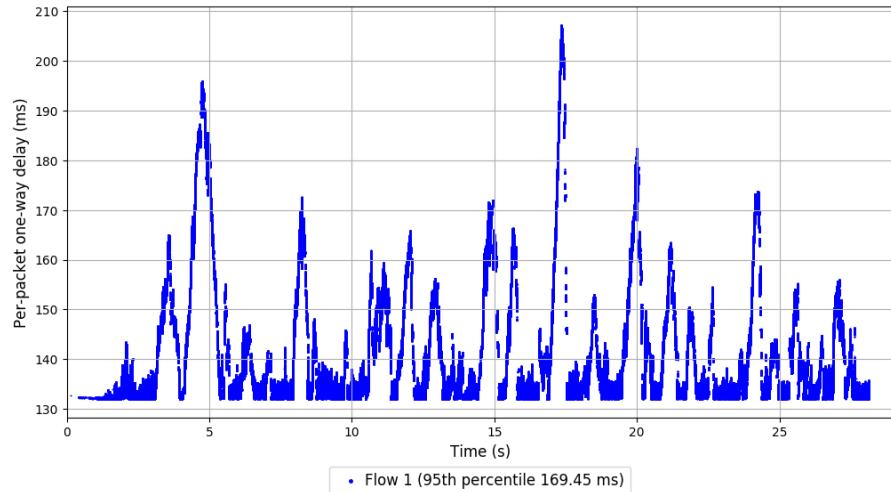
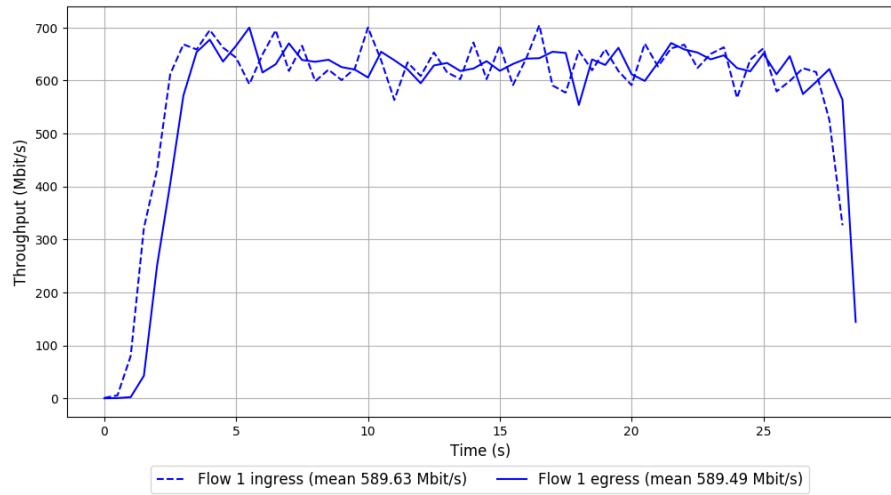


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-03-19 05:11:39
End at: 2019-03-19 05:12:09
Local clock offset: -0.528 ms
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2019-03-19 07:56:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 589.49 Mbit/s
95th percentile per-packet one-way delay: 169.446 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 589.49 Mbit/s
95th percentile per-packet one-way delay: 169.446 ms
Loss rate: 0.97%
```

Run 2: Report of Indigo-MusesC3 — Data Link

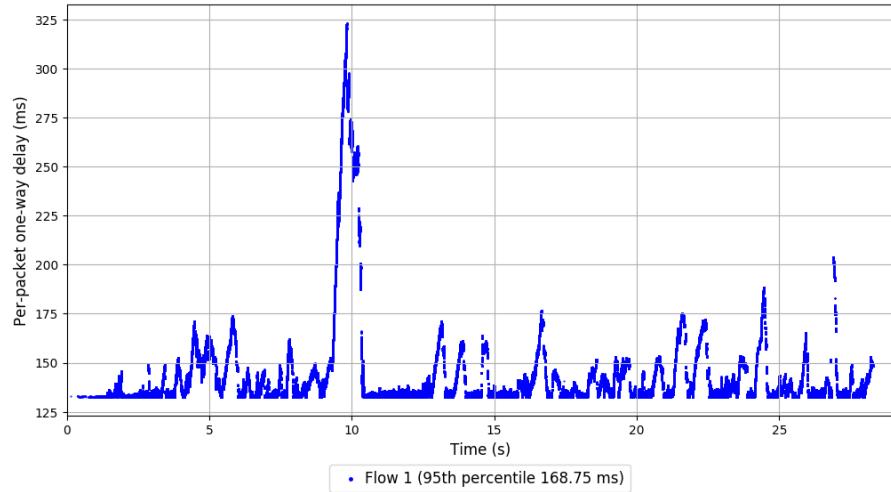
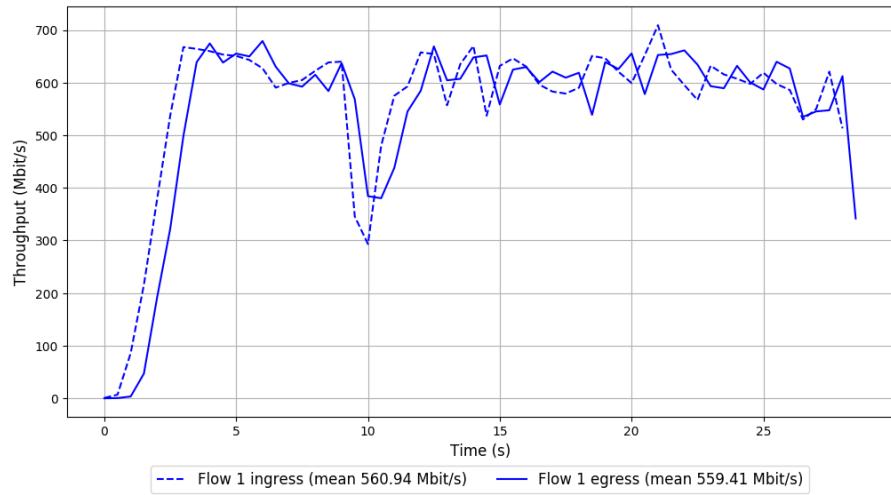


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-03-19 05:44:32
End at: 2019-03-19 05:45:02
Local clock offset: -0.119 ms
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2019-03-19 07:58:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 559.41 Mbit/s
95th percentile per-packet one-way delay: 168.746 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 559.41 Mbit/s
95th percentile per-packet one-way delay: 168.746 ms
Loss rate: 1.21%
```

Run 3: Report of Indigo-MusesC3 — Data Link

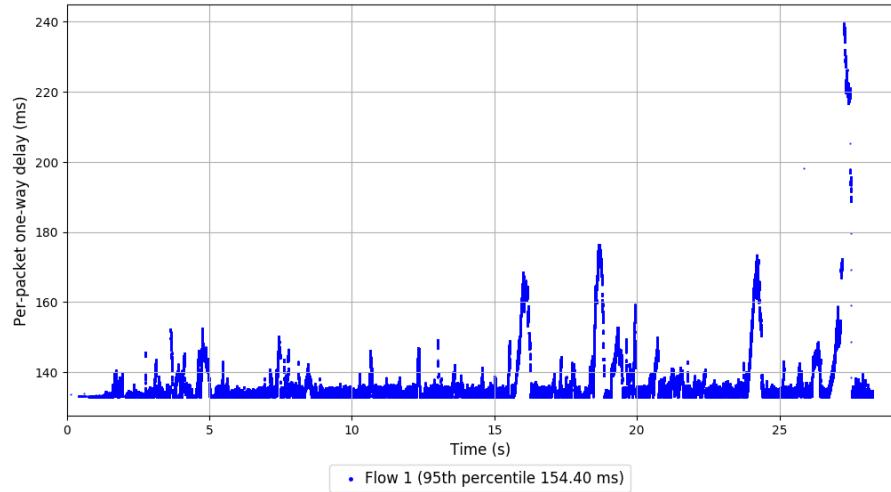
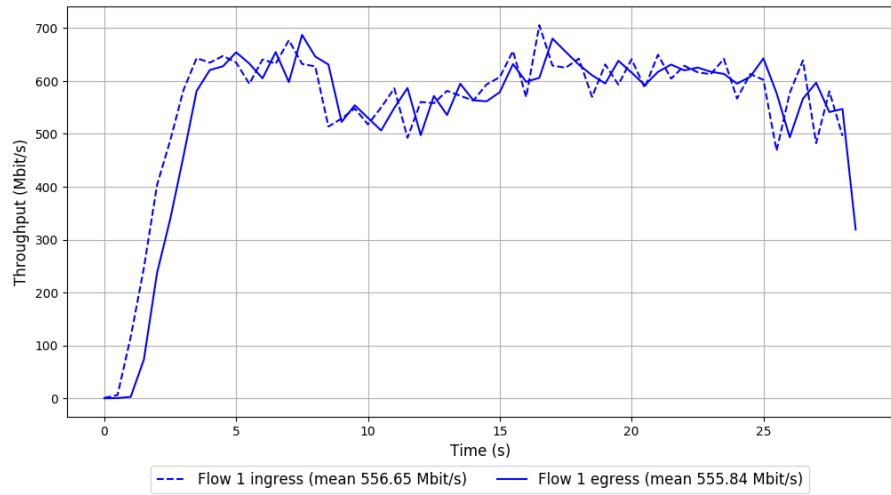


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-03-19 06:18:14
End at: 2019-03-19 06:18:44
Local clock offset: 0.226 ms
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2019-03-19 07:58:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 555.84 Mbit/s
95th percentile per-packet one-way delay: 154.399 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 555.84 Mbit/s
95th percentile per-packet one-way delay: 154.399 ms
Loss rate: 1.09%
```

Run 4: Report of Indigo-MusesC3 — Data Link

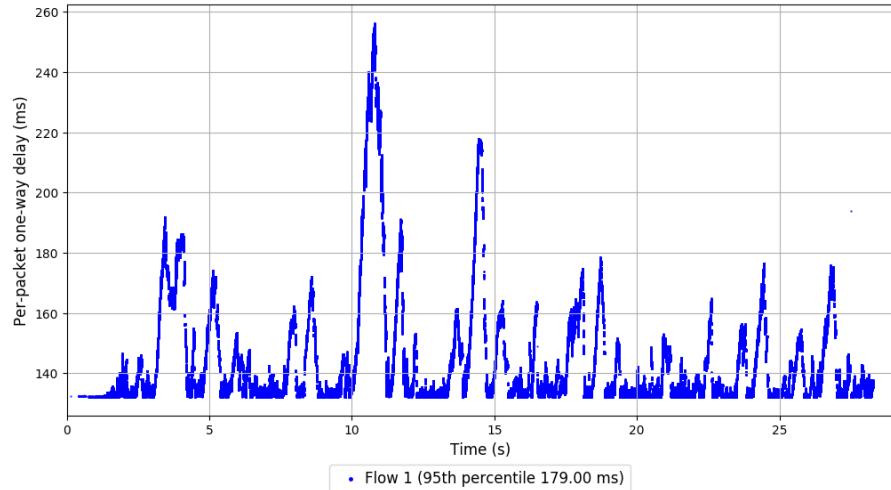
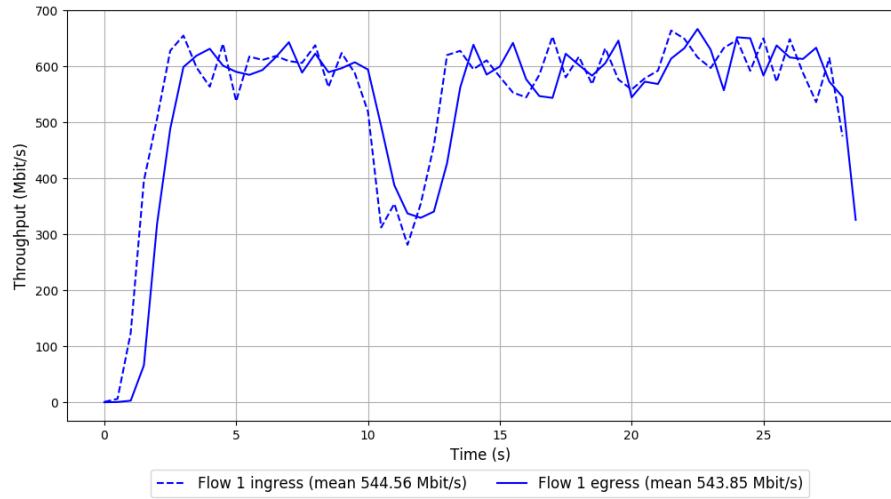


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-03-19 06:52:54
End at: 2019-03-19 06:53:24
Local clock offset: -0.206 ms
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2019-03-19 08:00:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 543.85 Mbit/s
95th percentile per-packet one-way delay: 178.996 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 543.85 Mbit/s
95th percentile per-packet one-way delay: 178.996 ms
Loss rate: 1.06%
```

Run 5: Report of Indigo-MusesC3 — Data Link

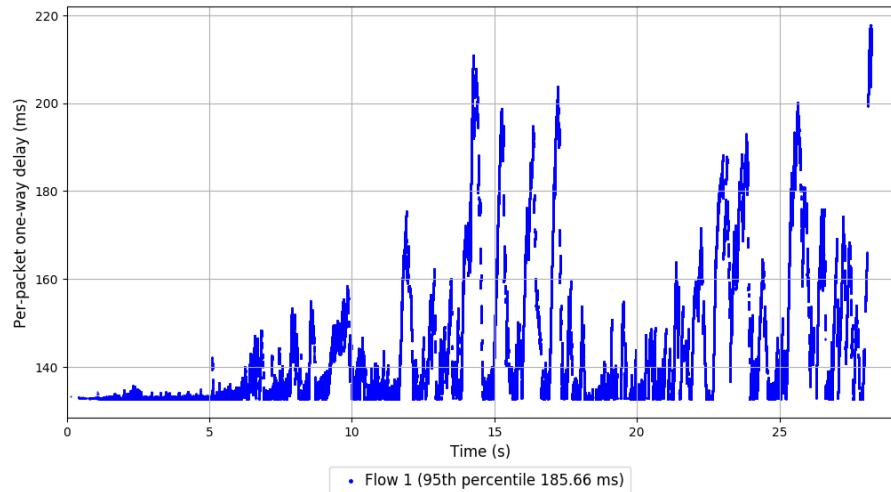
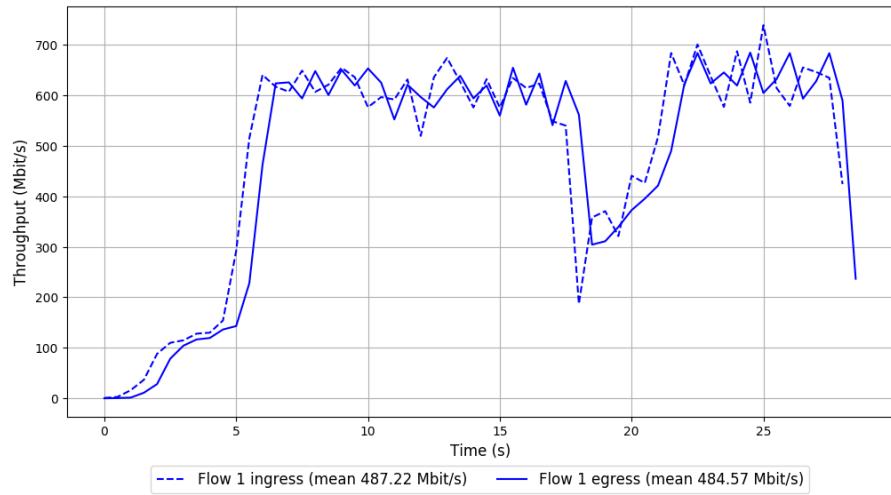


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-03-19 04:32:01
End at: 2019-03-19 04:32:31
Local clock offset: -0.152 ms
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2019-03-19 08:00:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 484.57 Mbit/s
95th percentile per-packet one-way delay: 185.660 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 484.57 Mbit/s
95th percentile per-packet one-way delay: 185.660 ms
Loss rate: 1.48%
```

Run 1: Report of Indigo-MusesC5 — Data Link

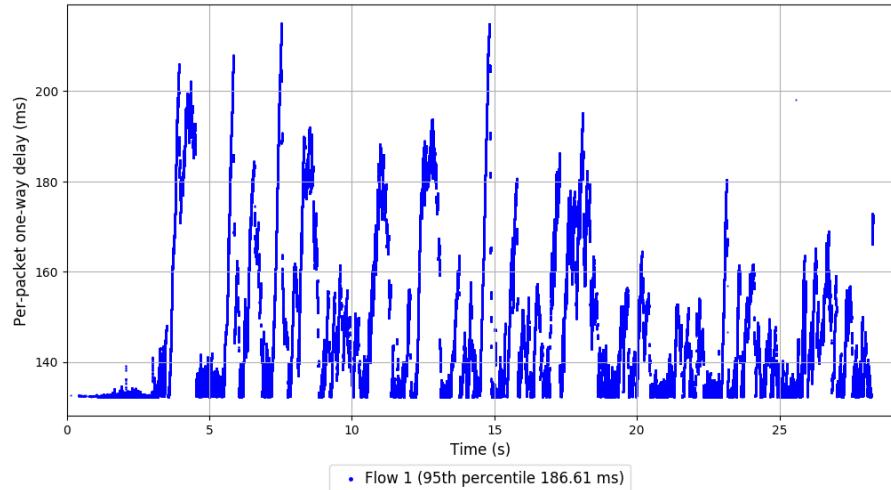
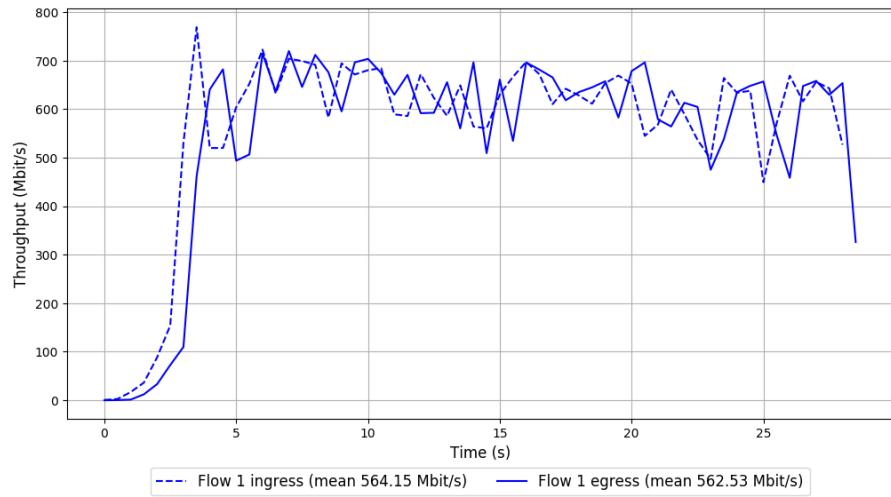


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-03-19 05:07:45
End at: 2019-03-19 05:08:15
Local clock offset: 0.172 ms
Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2019-03-19 08:01:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 562.53 Mbit/s
95th percentile per-packet one-way delay: 186.607 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 562.53 Mbit/s
95th percentile per-packet one-way delay: 186.607 ms
Loss rate: 1.19%
```

Run 2: Report of Indigo-MusesC5 — Data Link

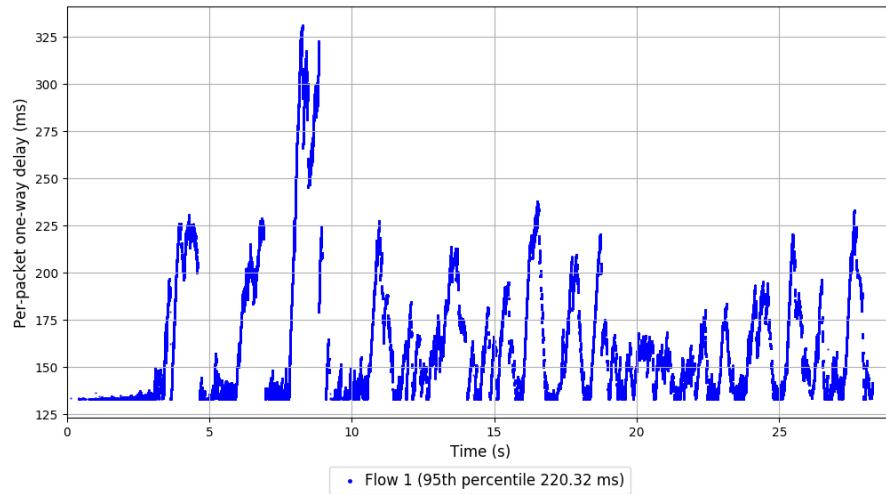
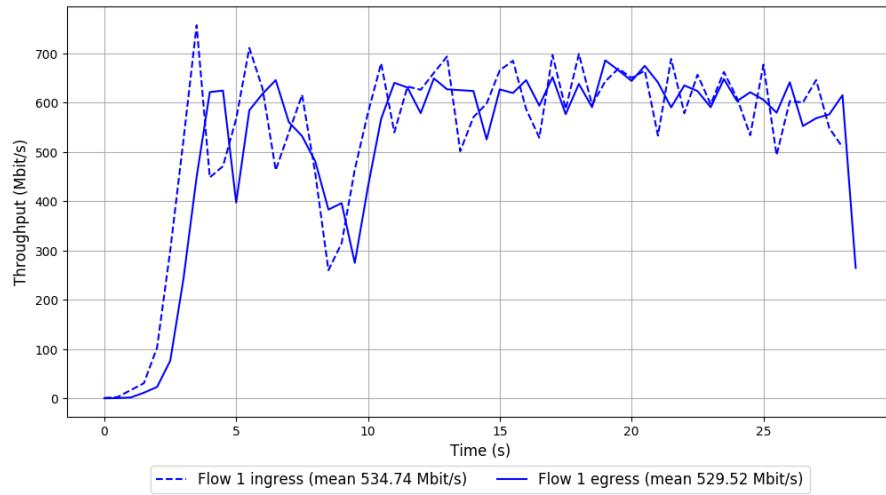


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-03-19 05:40:33
End at: 2019-03-19 05:41:03
Local clock offset: -0.538 ms
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2019-03-19 08:03:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 529.52 Mbit/s
95th percentile per-packet one-way delay: 220.322 ms
Loss rate: 1.90%
-- Flow 1:
Average throughput: 529.52 Mbit/s
95th percentile per-packet one-way delay: 220.322 ms
Loss rate: 1.90%
```

Run 3: Report of Indigo-MusesC5 — Data Link

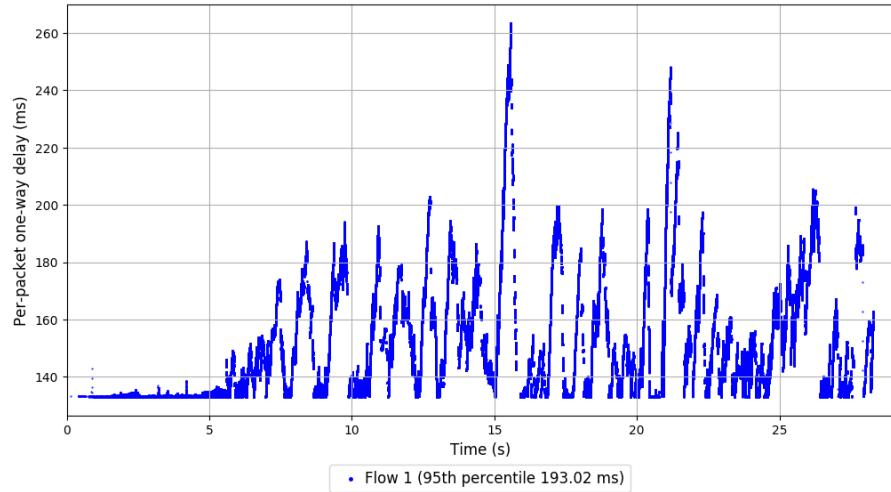
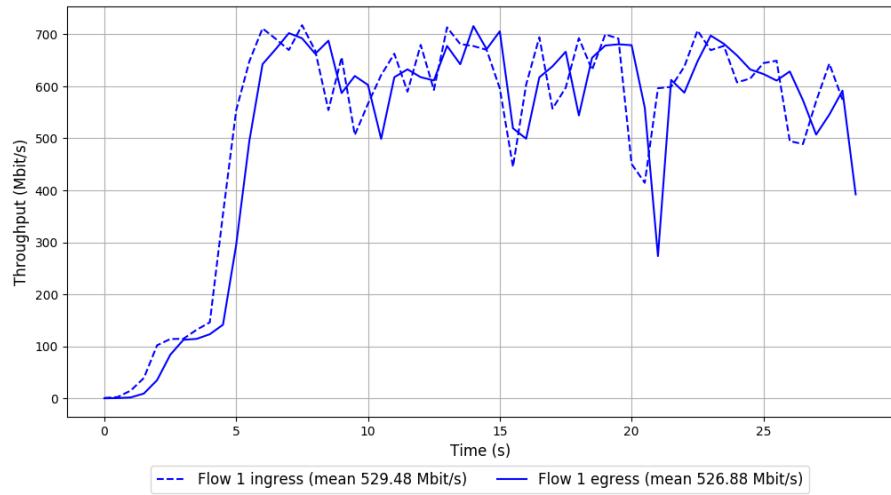


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-03-19 06:14:33
End at: 2019-03-19 06:15:03
Local clock offset: -0.0 ms
Remote clock offset: -0.094 ms

# Below is generated by plot.py at 2019-03-19 08:04:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 526.88 Mbit/s
95th percentile per-packet one-way delay: 193.016 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 526.88 Mbit/s
95th percentile per-packet one-way delay: 193.016 ms
Loss rate: 1.43%
```

Run 4: Report of Indigo-MusesC5 — Data Link

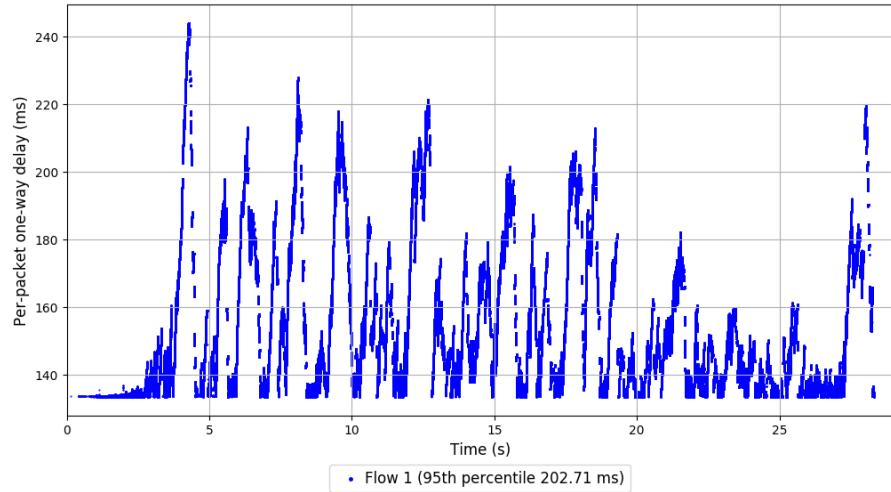
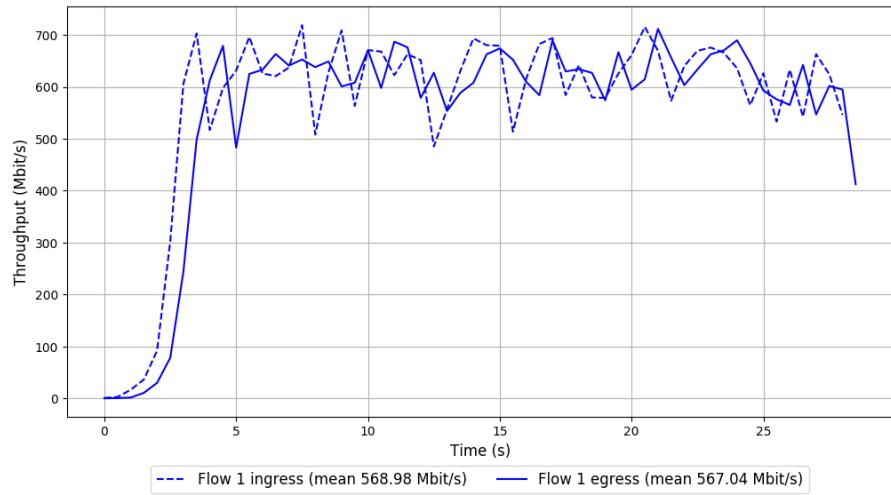


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-03-19 06:49:40
End at: 2019-03-19 06:50:10
Local clock offset: 0.397 ms
Remote clock offset: -0.133 ms

# Below is generated by plot.py at 2019-03-19 08:07:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 567.04 Mbit/s
95th percentile per-packet one-way delay: 202.709 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 567.04 Mbit/s
95th percentile per-packet one-way delay: 202.709 ms
Loss rate: 1.28%
```

Run 5: Report of Indigo-MusesC5 — Data Link

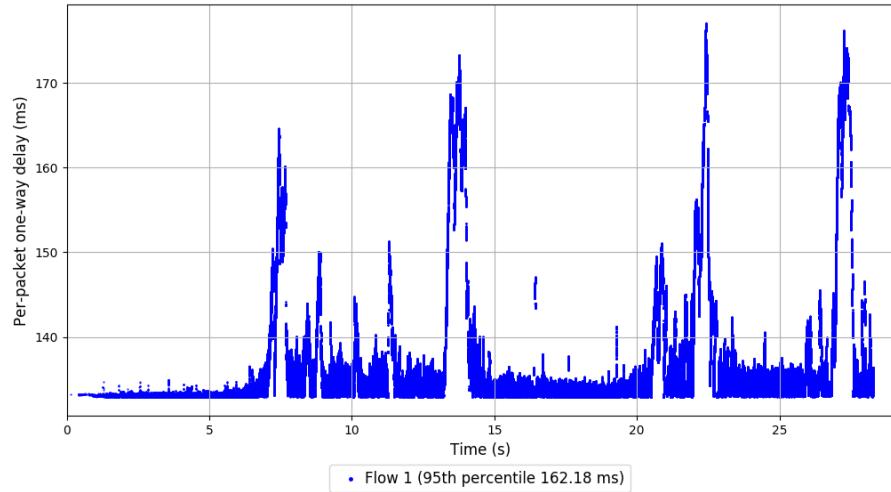
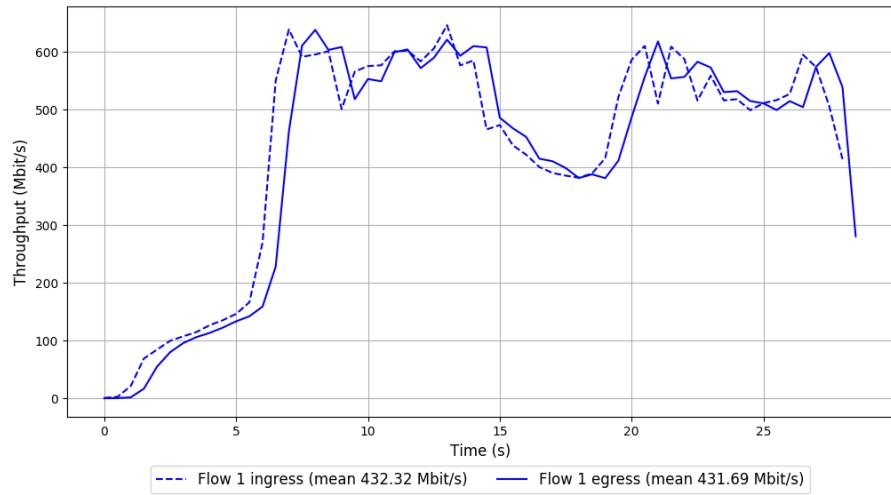


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-03-19 04:27:01
End at: 2019-03-19 04:27:31
Local clock offset: 0.026 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2019-03-19 08:07:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 431.69 Mbit/s
95th percentile per-packet one-way delay: 162.183 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 431.69 Mbit/s
95th percentile per-packet one-way delay: 162.183 ms
Loss rate: 1.08%
```

Run 1: Report of Indigo-MusesD — Data Link

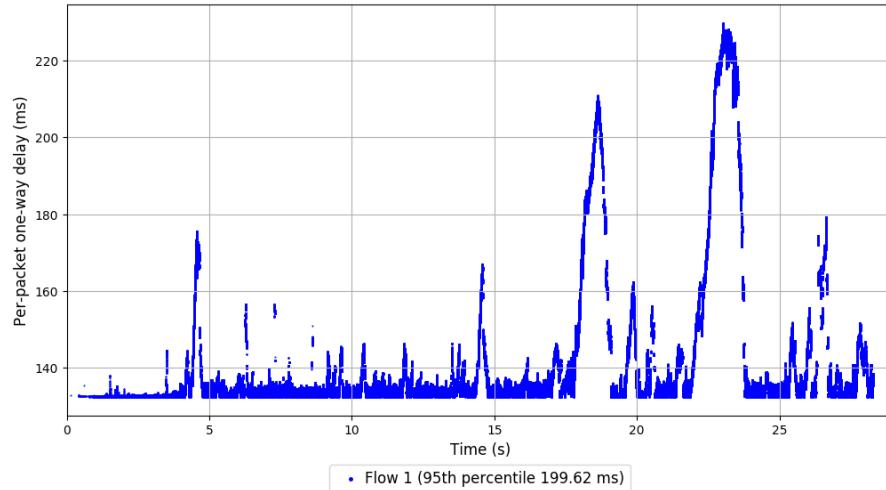
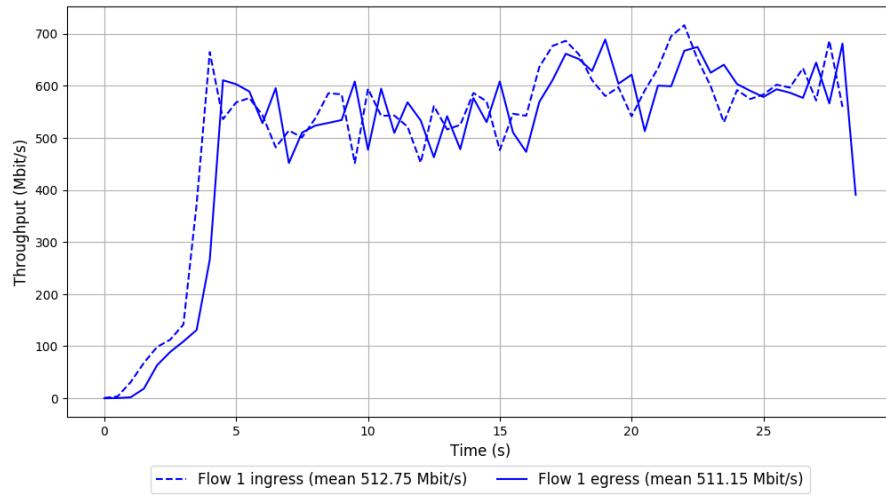


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-03-19 05:02:11
End at: 2019-03-19 05:02:41
Local clock offset: -0.48 ms
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2019-03-19 08:07:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 511.15 Mbit/s
95th percentile per-packet one-way delay: 199.624 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 511.15 Mbit/s
95th percentile per-packet one-way delay: 199.624 ms
Loss rate: 1.24%
```

Run 2: Report of Indigo-MusesD — Data Link

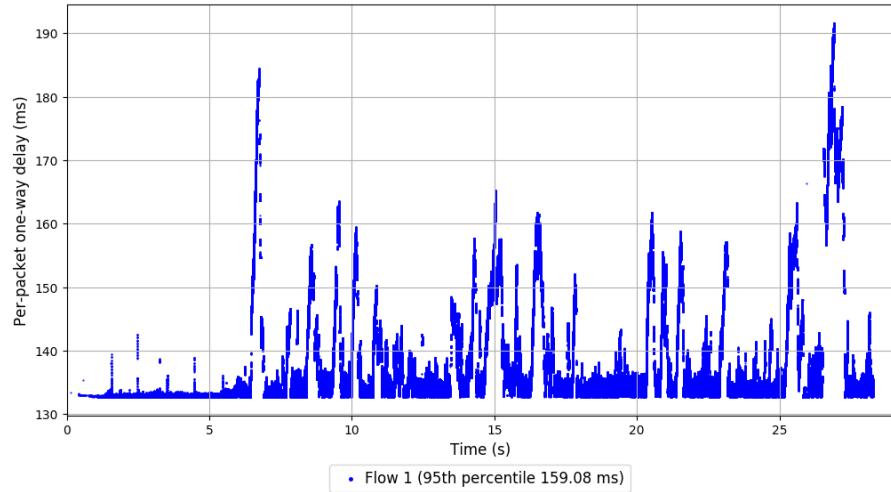
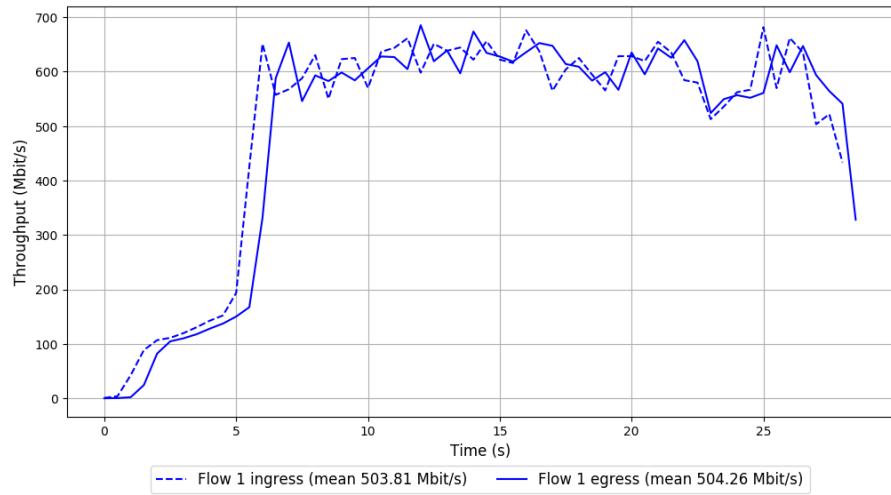


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-03-19 05:35:56
End at: 2019-03-19 05:36:26
Local clock offset: -0.37 ms
Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2019-03-19 08:09:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 504.26 Mbit/s
95th percentile per-packet one-way delay: 159.078 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 504.26 Mbit/s
95th percentile per-packet one-way delay: 159.078 ms
Loss rate: 0.85%
```

Run 3: Report of Indigo-MusesD — Data Link

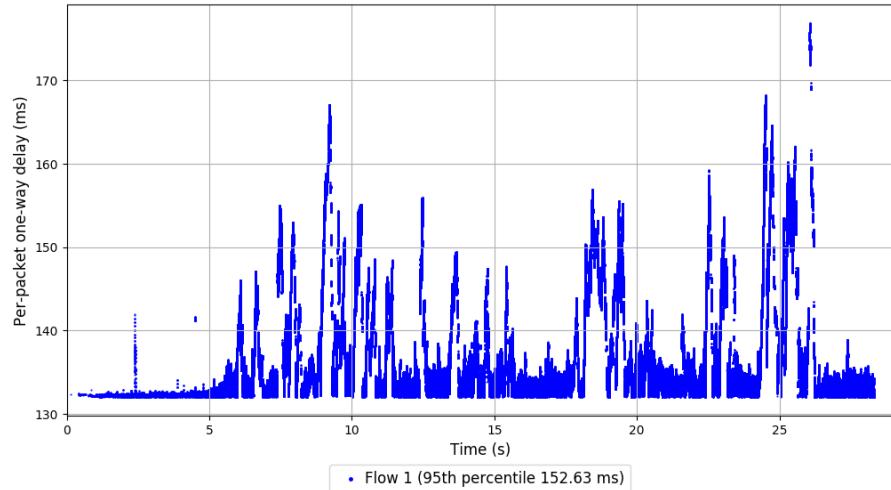
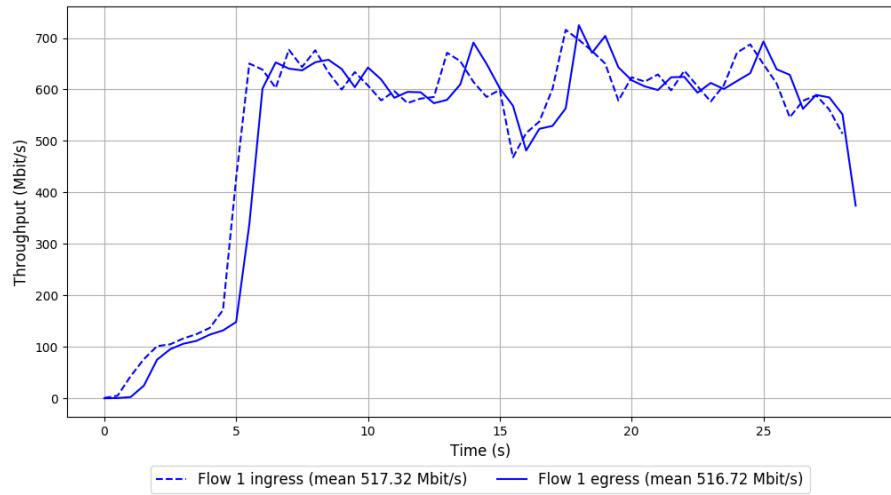


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-03-19 06:10:23
End at: 2019-03-19 06:10:53
Local clock offset: -0.292 ms
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2019-03-19 08:09:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 516.72 Mbit/s
95th percentile per-packet one-way delay: 152.633 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 516.72 Mbit/s
95th percentile per-packet one-way delay: 152.633 ms
Loss rate: 1.05%
```

Run 4: Report of Indigo-MusesD — Data Link

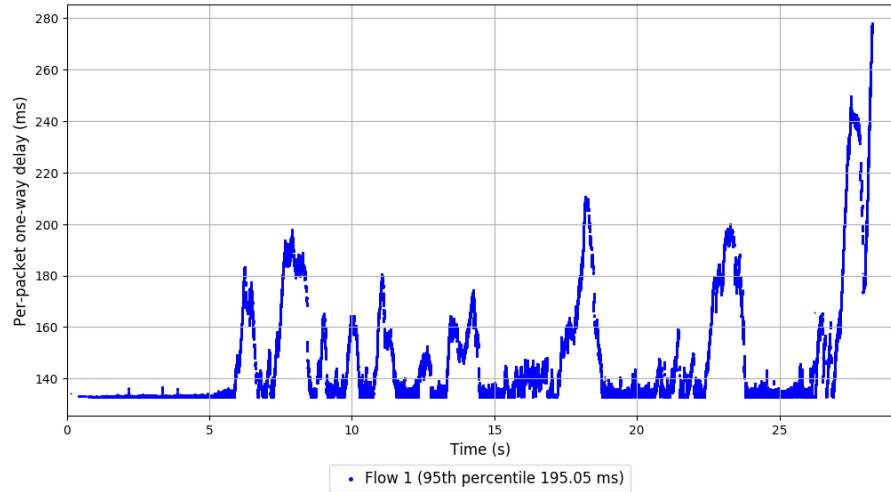
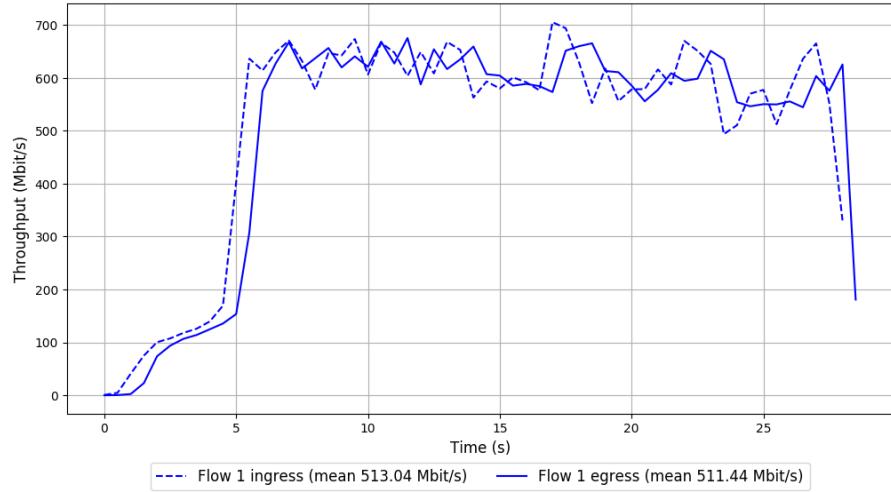


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-03-19 06:44:33
End at: 2019-03-19 06:45:03
Local clock offset: 0.143 ms
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2019-03-19 08:10:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 511.44 Mbit/s
95th percentile per-packet one-way delay: 195.049 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 511.44 Mbit/s
95th percentile per-packet one-way delay: 195.049 ms
Loss rate: 1.25%
```

Run 5: Report of Indigo-MusesD — Data Link

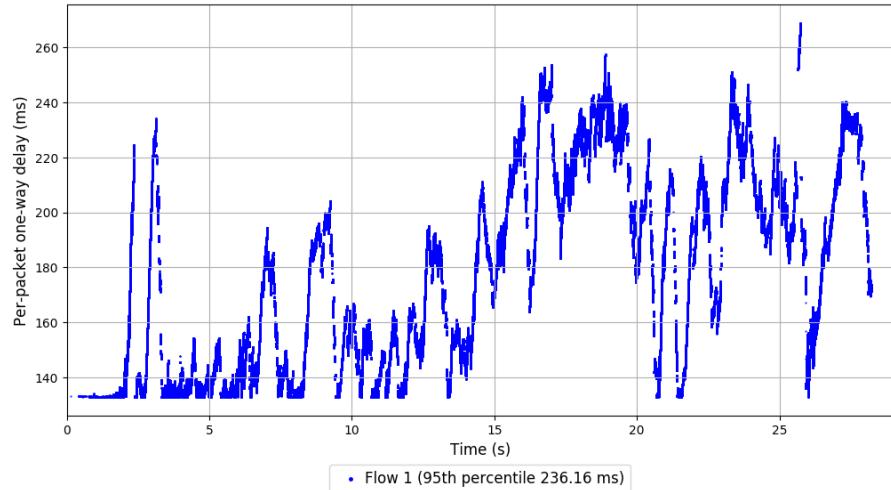
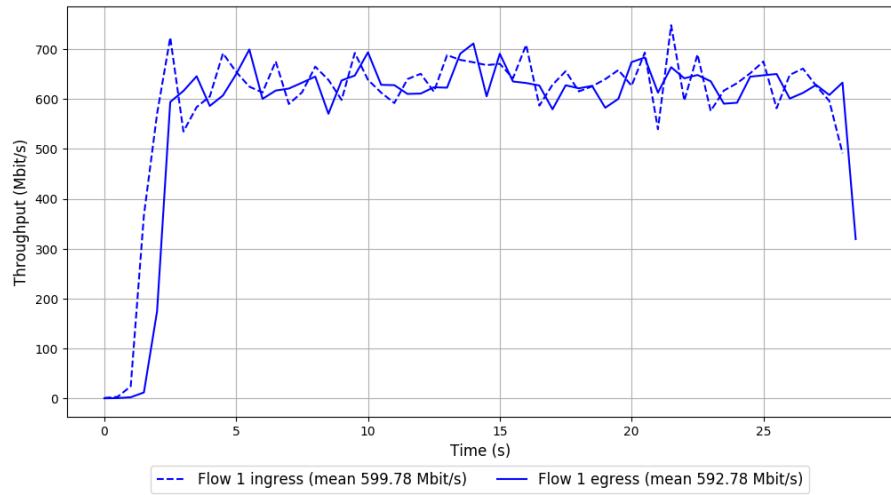


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-03-19 04:42:41
End at: 2019-03-19 04:43:11
Local clock offset: -0.054 ms
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2019-03-19 08:14:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 592.78 Mbit/s
95th percentile per-packet one-way delay: 236.155 ms
Loss rate: 2.10%
-- Flow 1:
Average throughput: 592.78 Mbit/s
95th percentile per-packet one-way delay: 236.155 ms
Loss rate: 2.10%
```

Run 1: Report of Indigo-MusesT — Data Link

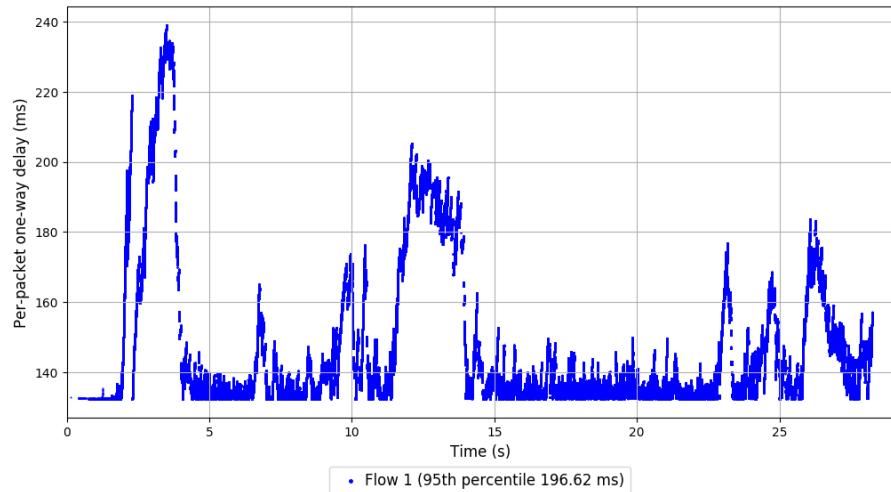
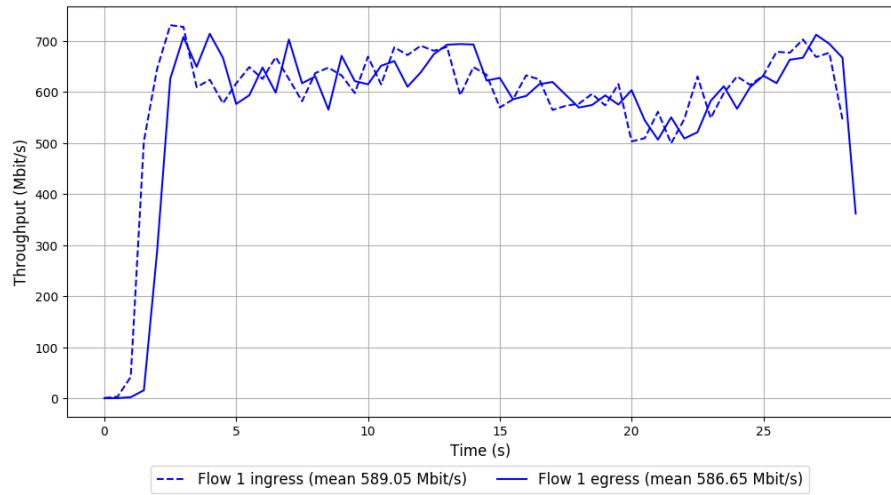


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-03-19 05:17:41
End at: 2019-03-19 05:18:11
Local clock offset: -0.594 ms
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2019-03-19 08:14:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 586.65 Mbit/s
95th percentile per-packet one-way delay: 196.617 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 586.65 Mbit/s
95th percentile per-packet one-way delay: 196.617 ms
Loss rate: 1.34%
```

Run 2: Report of Indigo-MusesT — Data Link

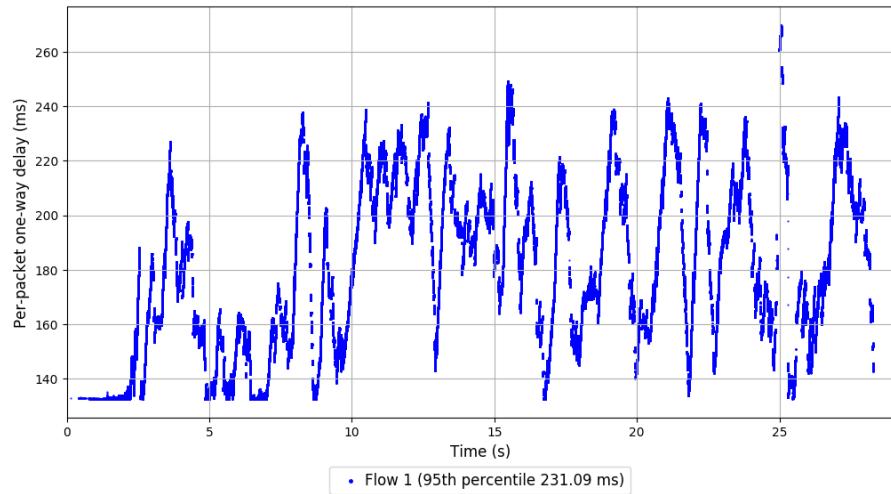
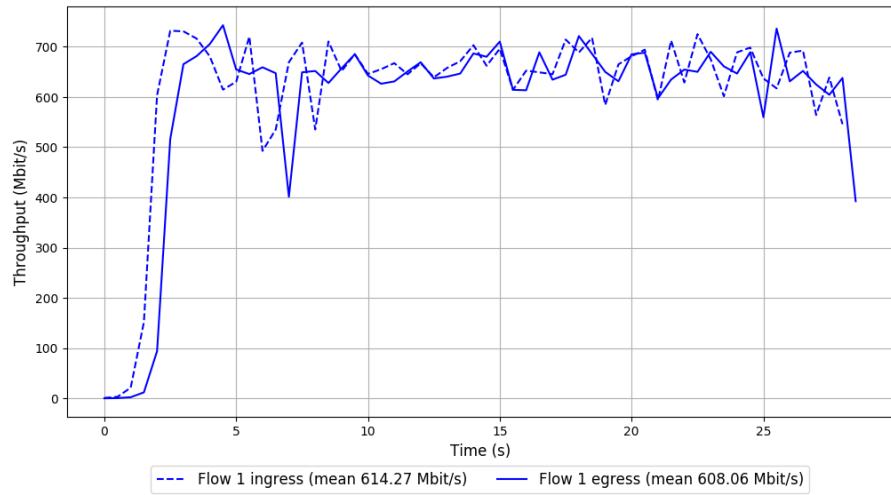


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-03-19 05:50:46
End at: 2019-03-19 05:51:16
Local clock offset: 0.02 ms
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2019-03-19 08:15:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 608.06 Mbit/s
95th percentile per-packet one-way delay: 231.094 ms
Loss rate: 1.94%
-- Flow 1:
Average throughput: 608.06 Mbit/s
95th percentile per-packet one-way delay: 231.094 ms
Loss rate: 1.94%
```

Run 3: Report of Indigo-MusesT — Data Link

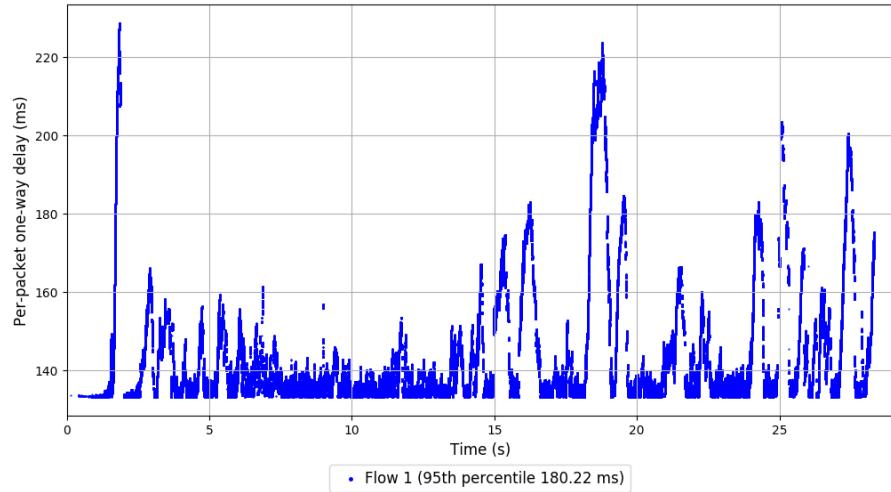
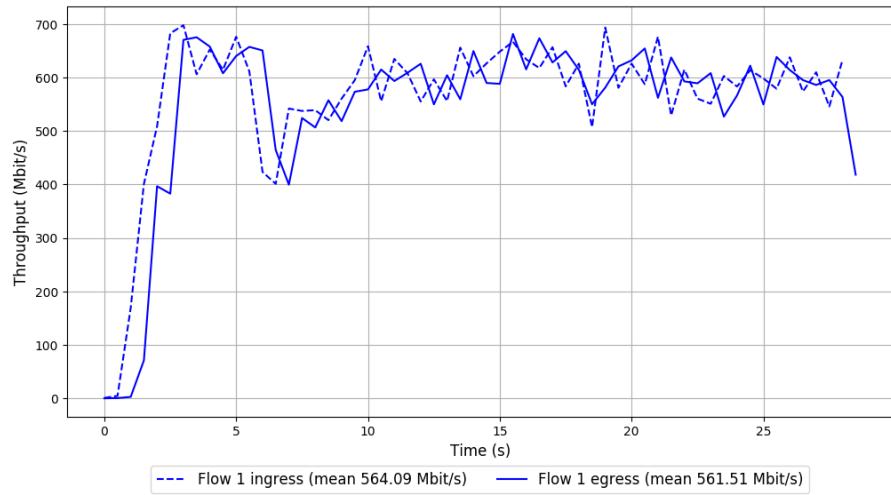


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-03-19 06:24:53
End at: 2019-03-19 06:25:23
Local clock offset: 0.347 ms
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2019-03-19 08:16:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 561.51 Mbit/s
95th percentile per-packet one-way delay: 180.216 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 561.51 Mbit/s
95th percentile per-packet one-way delay: 180.216 ms
Loss rate: 1.39%
```

Run 4: Report of Indigo-MusesT — Data Link

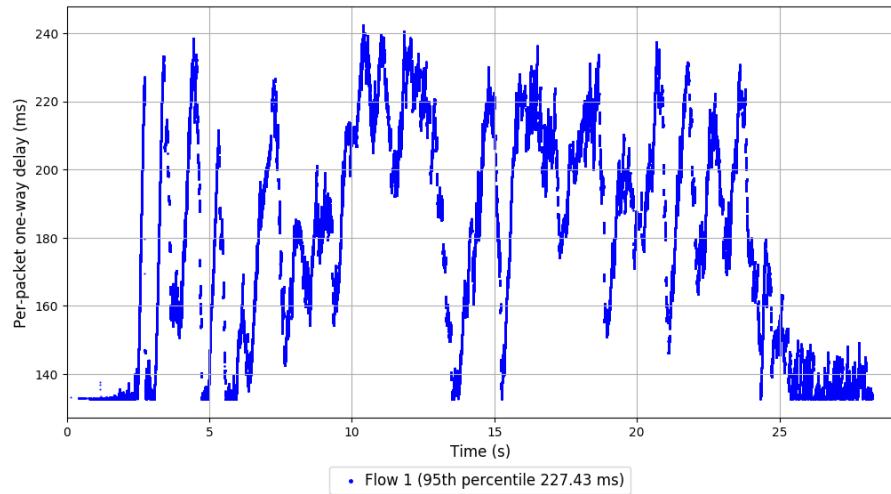
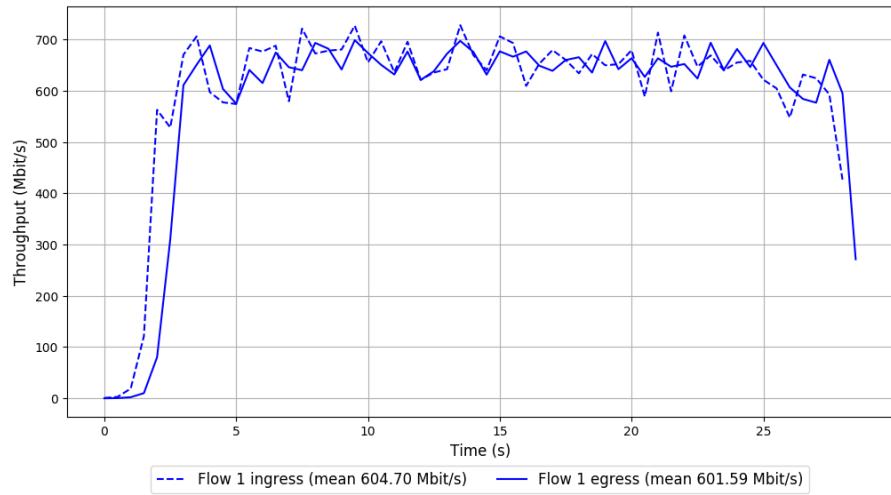


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-03-19 06:59:05
End at: 2019-03-19 06:59:35
Local clock offset: -0.046 ms
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2019-03-19 08:16:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 601.59 Mbit/s
95th percentile per-packet one-way delay: 227.427 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 601.59 Mbit/s
95th percentile per-packet one-way delay: 227.427 ms
Loss rate: 1.42%
```

Run 5: Report of Indigo-MusesT — Data Link

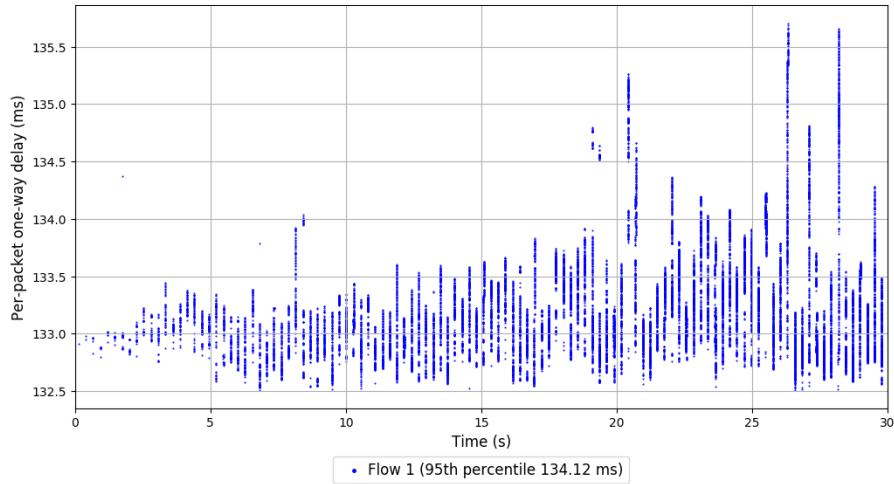
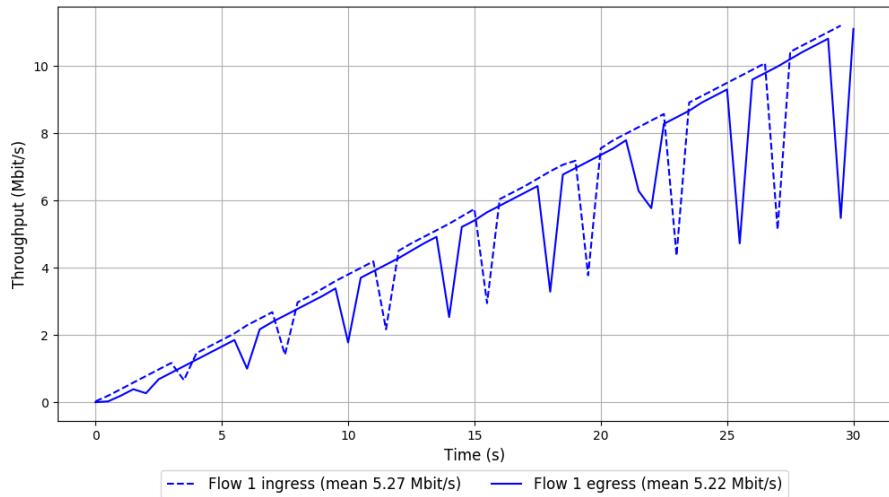


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-03-19 04:28:42
End at: 2019-03-19 04:29:12
Local clock offset: -0.557 ms
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2019-03-19 08:16:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.22 Mbit/s
95th percentile per-packet one-way delay: 134.118 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 5.22 Mbit/s
95th percentile per-packet one-way delay: 134.118 ms
Loss rate: 1.78%
```

Run 1: Report of LEDBAT — Data Link

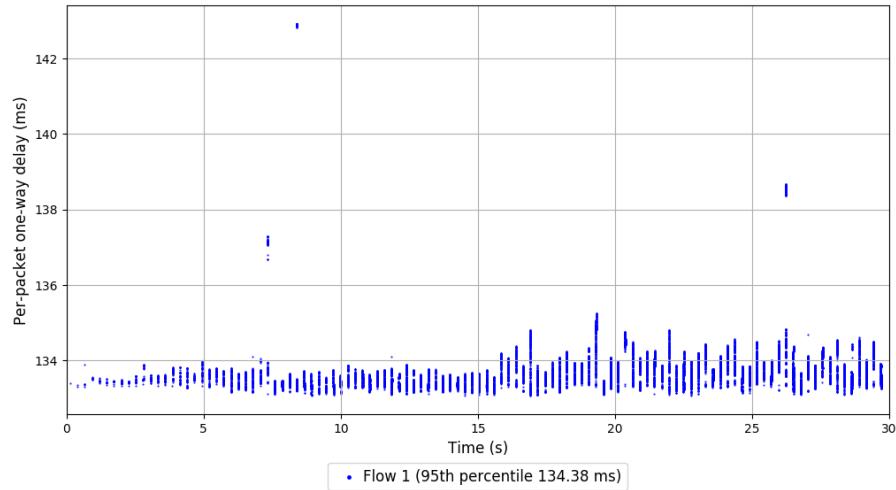
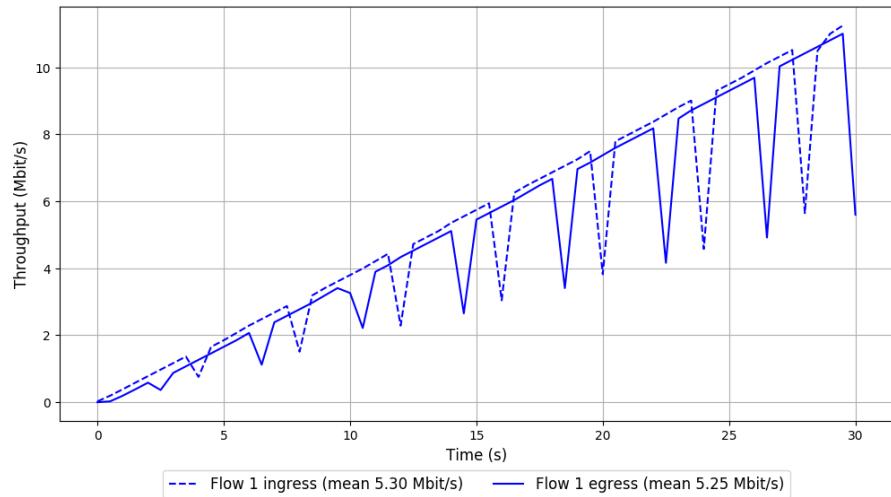


Run 2: Statistics of LEDBAT

```
Start at: 2019-03-19 05:04:17
End at: 2019-03-19 05:04:47
Local clock offset: -0.05 ms
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2019-03-19 08:16:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.25 Mbit/s
95th percentile per-packet one-way delay: 134.381 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 5.25 Mbit/s
95th percentile per-packet one-way delay: 134.381 ms
Loss rate: 1.79%
```

Run 2: Report of LEDBAT — Data Link

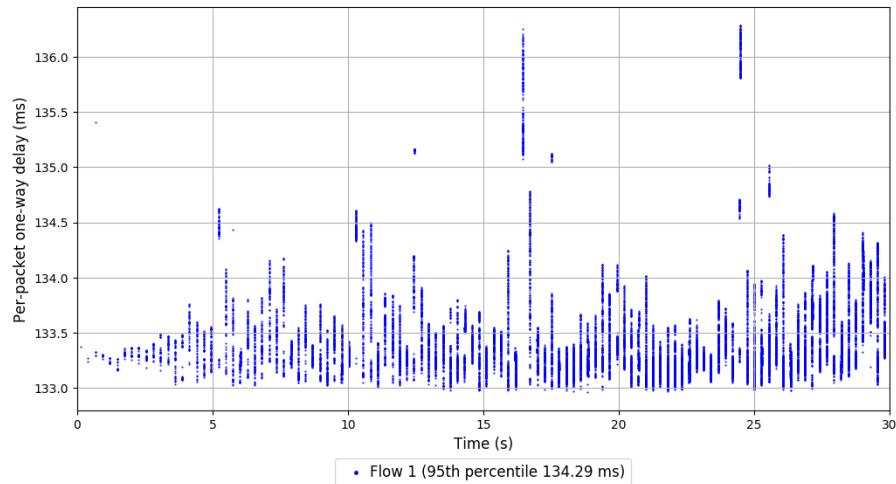
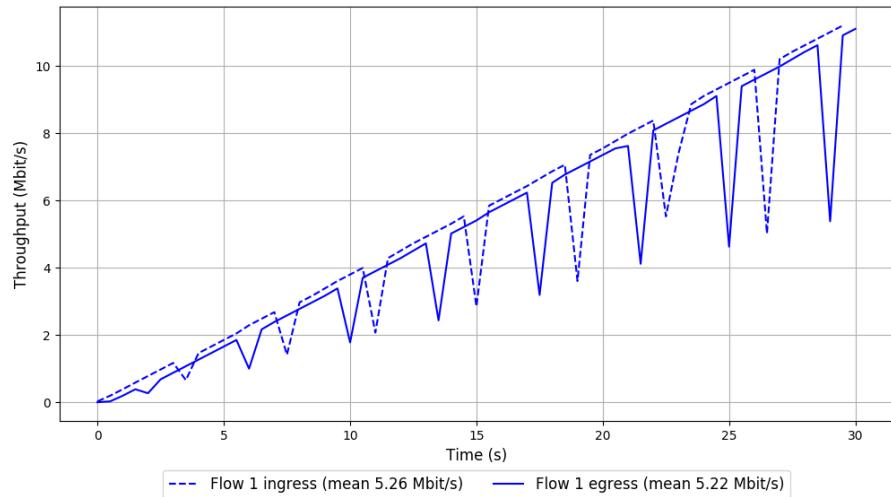


Run 3: Statistics of LEDBAT

```
Start at: 2019-03-19 05:37:35
End at: 2019-03-19 05:38:05
Local clock offset: -0.481 ms
Remote clock offset: -0.144 ms

# Below is generated by plot.py at 2019-03-19 08:16:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.22 Mbit/s
95th percentile per-packet one-way delay: 134.286 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 5.22 Mbit/s
95th percentile per-packet one-way delay: 134.286 ms
Loss rate: 1.78%
```

Run 3: Report of LEDBAT — Data Link

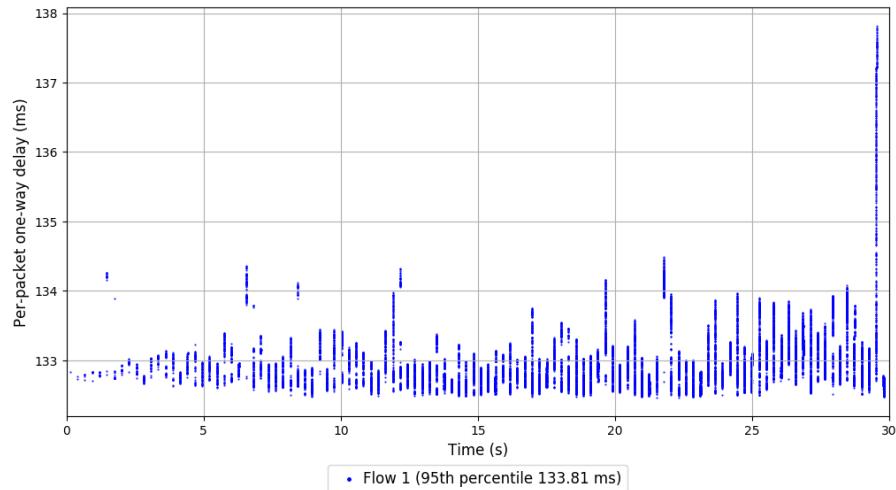
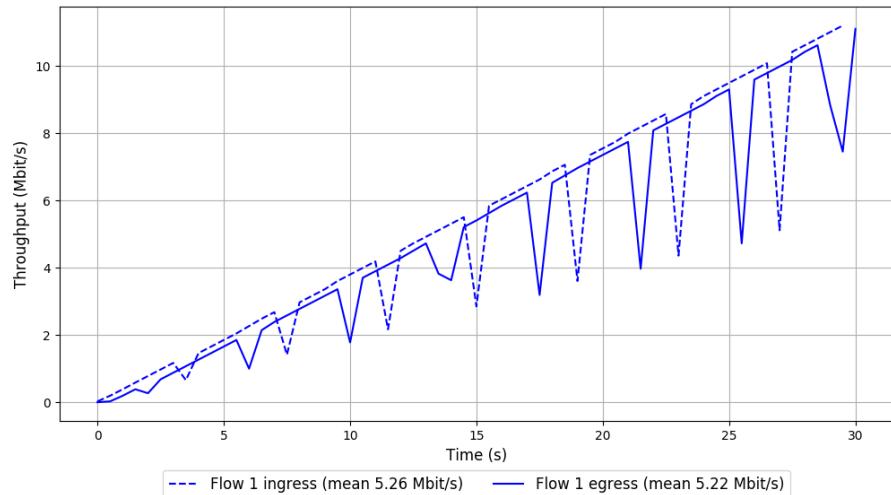


Run 4: Statistics of LEDBAT

```
Start at: 2019-03-19 06:12:01
End at: 2019-03-19 06:12:31
Local clock offset: -0.453 ms
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2019-03-19 08:16:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.22 Mbit/s
95th percentile per-packet one-way delay: 133.807 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 5.22 Mbit/s
95th percentile per-packet one-way delay: 133.807 ms
Loss rate: 1.78%
```

Run 4: Report of LEDBAT — Data Link

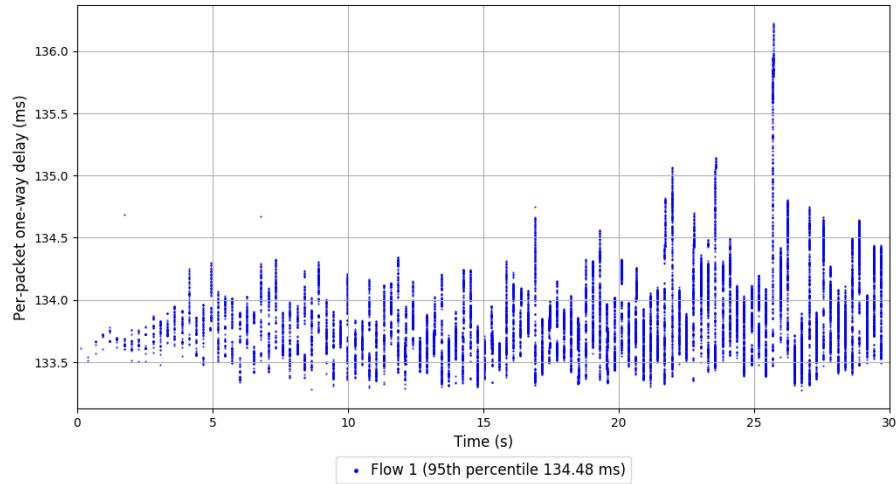
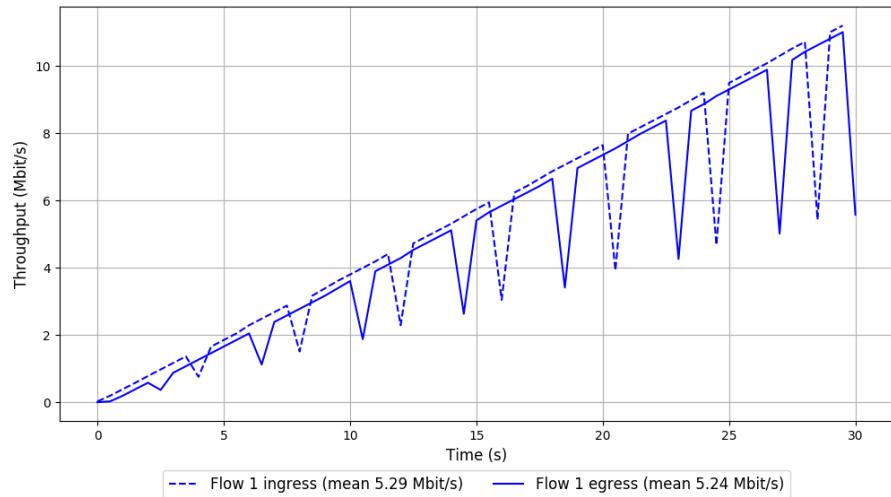


Run 5: Statistics of LEDBAT

```
Start at: 2019-03-19 06:46:17
End at: 2019-03-19 06:46:47
Local clock offset: 0.381 ms
Remote clock offset: -0.109 ms

# Below is generated by plot.py at 2019-03-19 08:16:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.24 Mbit/s
95th percentile per-packet one-way delay: 134.484 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 5.24 Mbit/s
95th percentile per-packet one-way delay: 134.484 ms
Loss rate: 1.78%
```

Run 5: Report of LEDBAT — Data Link

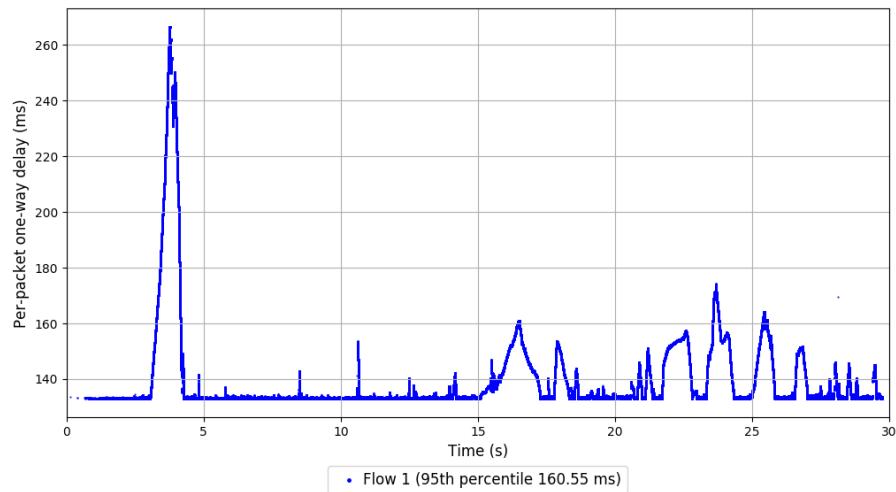
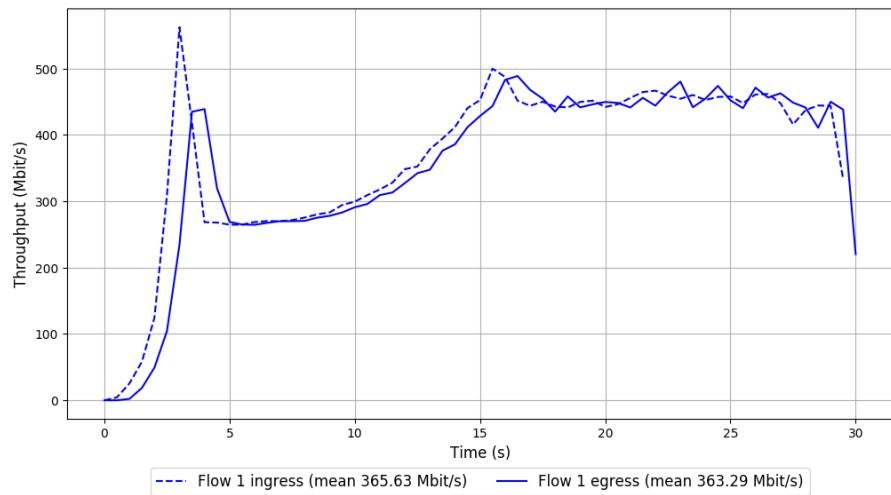


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-03-19 04:17:08
End at: 2019-03-19 04:17:38
Local clock offset: -0.13 ms
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2019-03-19 08:21:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 363.29 Mbit/s
95th percentile per-packet one-way delay: 160.550 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 363.29 Mbit/s
95th percentile per-packet one-way delay: 160.550 ms
Loss rate: 1.53%
```

Run 1: Report of PCC-Allegro — Data Link

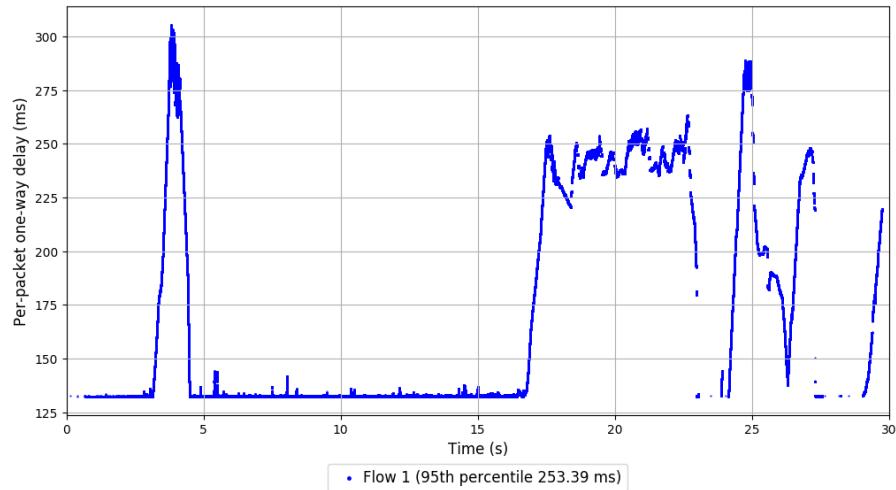
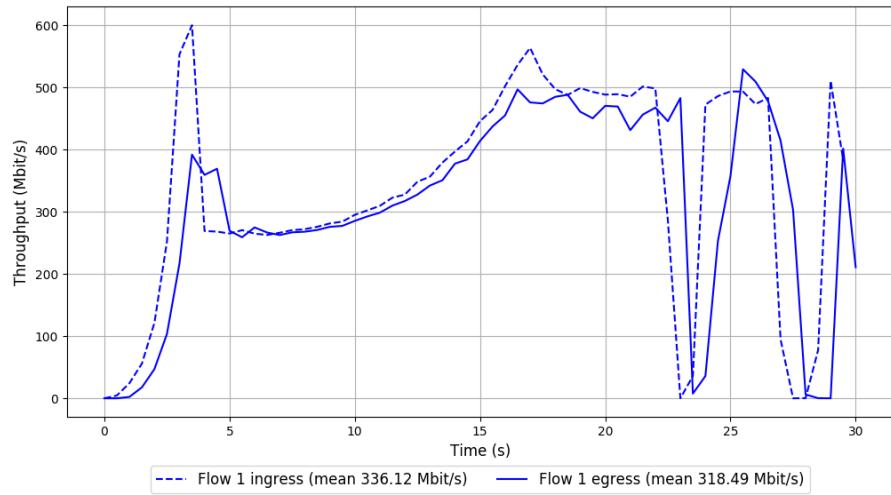


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-03-19 04:53:03
End at: 2019-03-19 04:53:33
Local clock offset: -0.063 ms
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2019-03-19 08:21:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 318.49 Mbit/s
95th percentile per-packet one-way delay: 253.386 ms
Loss rate: 6.09%
-- Flow 1:
Average throughput: 318.49 Mbit/s
95th percentile per-packet one-way delay: 253.386 ms
Loss rate: 6.09%
```

Run 2: Report of PCC-Allegro — Data Link

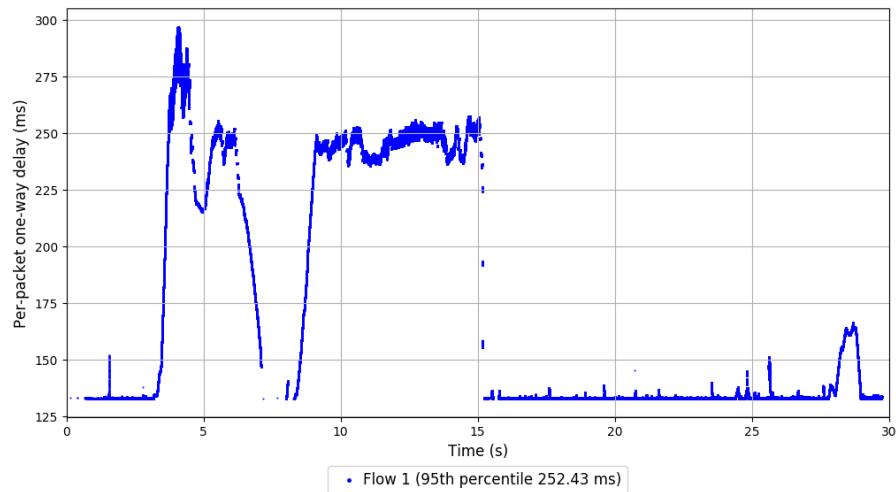
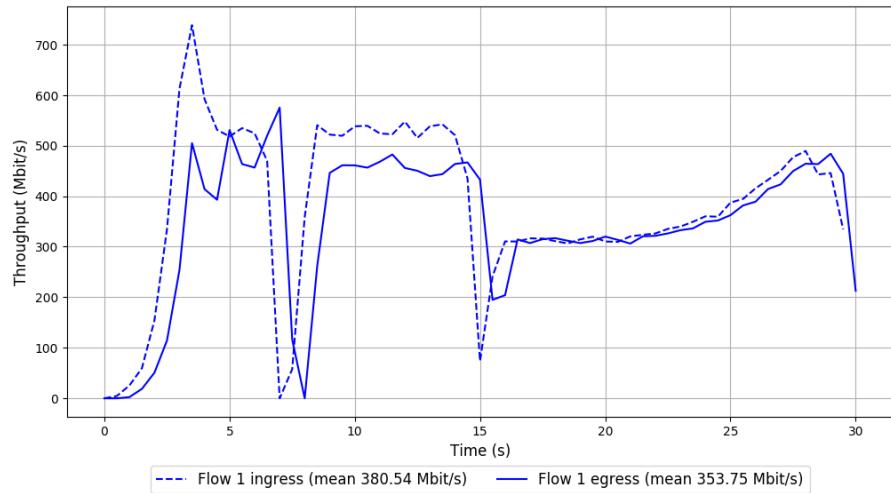


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-03-19 05:27:05
End at: 2019-03-19 05:27:35
Local clock offset: -0.075 ms
Remote clock offset: -0.119 ms

# Below is generated by plot.py at 2019-03-19 08:23:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 353.75 Mbit/s
95th percentile per-packet one-way delay: 252.428 ms
Loss rate: 7.87%
-- Flow 1:
Average throughput: 353.75 Mbit/s
95th percentile per-packet one-way delay: 252.428 ms
Loss rate: 7.87%
```

Run 3: Report of PCC-Allegro — Data Link

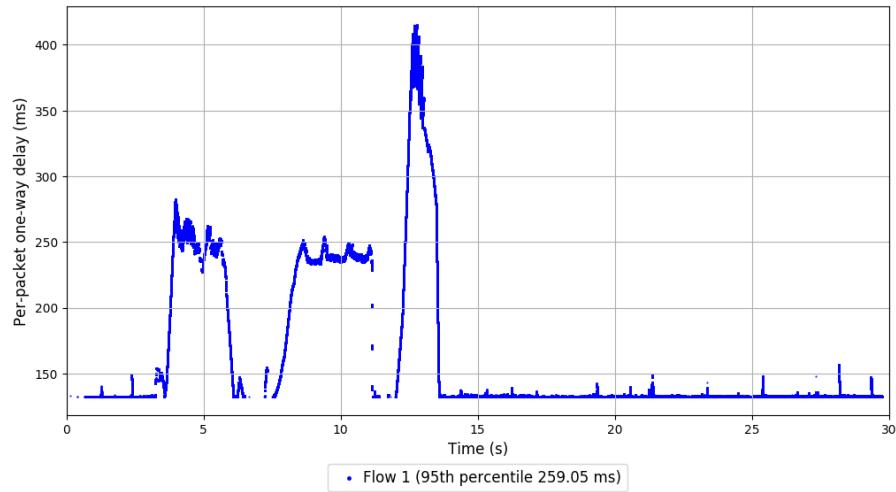
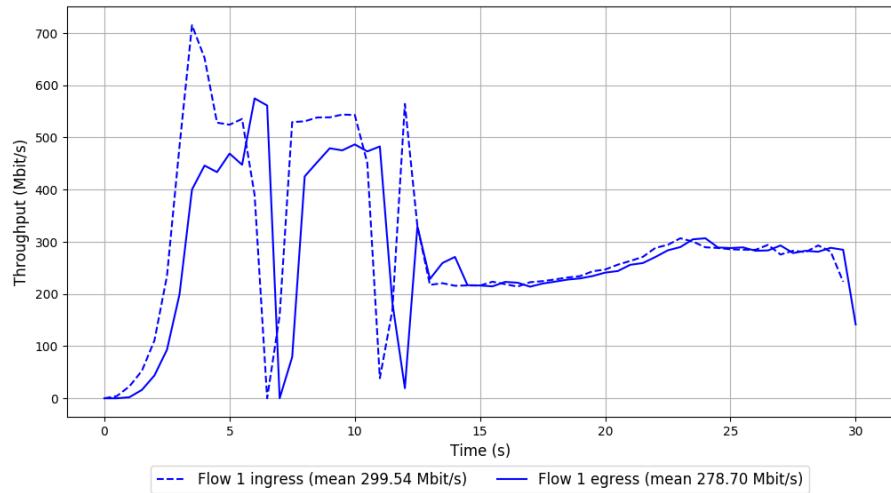


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-03-19 06:00:35
End at: 2019-03-19 06:01:05
Local clock offset: 0.219 ms
Remote clock offset: -0.116 ms

# Below is generated by plot.py at 2019-03-19 08:24:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 278.70 Mbit/s
95th percentile per-packet one-way delay: 259.047 ms
Loss rate: 7.78%
-- Flow 1:
Average throughput: 278.70 Mbit/s
95th percentile per-packet one-way delay: 259.047 ms
Loss rate: 7.78%
```

Run 4: Report of PCC-Allegro — Data Link

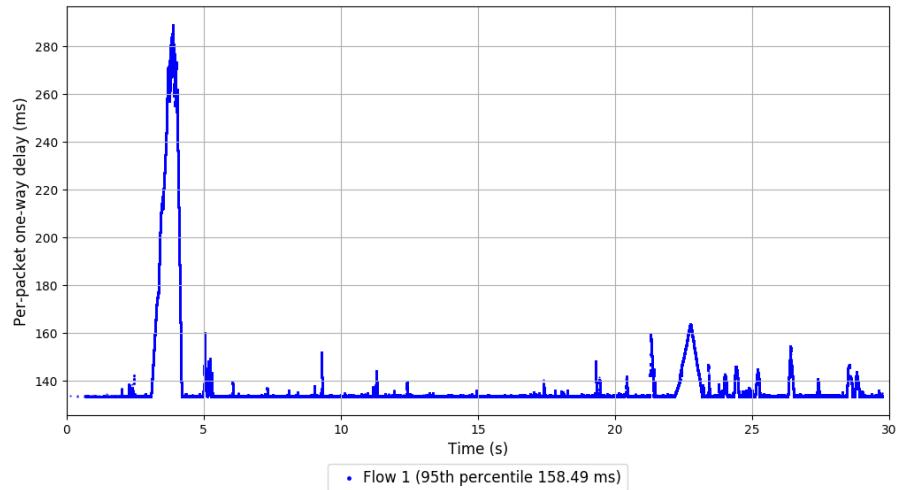
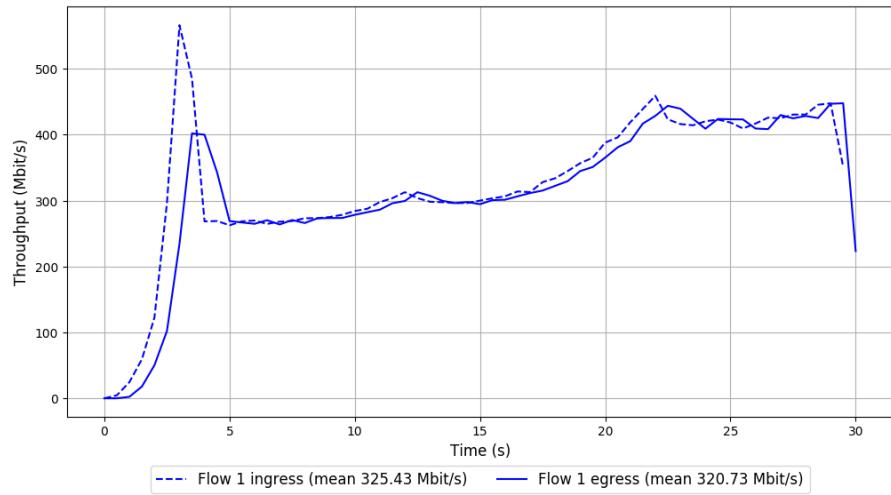


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-03-19 06:34:51
End at: 2019-03-19 06:35:21
Local clock offset: 0.39 ms
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2019-03-19 08:25:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 320.73 Mbit/s
95th percentile per-packet one-way delay: 158.493 ms
Loss rate: 2.32%
-- Flow 1:
Average throughput: 320.73 Mbit/s
95th percentile per-packet one-way delay: 158.493 ms
Loss rate: 2.32%
```

Run 5: Report of PCC-Allegro — Data Link

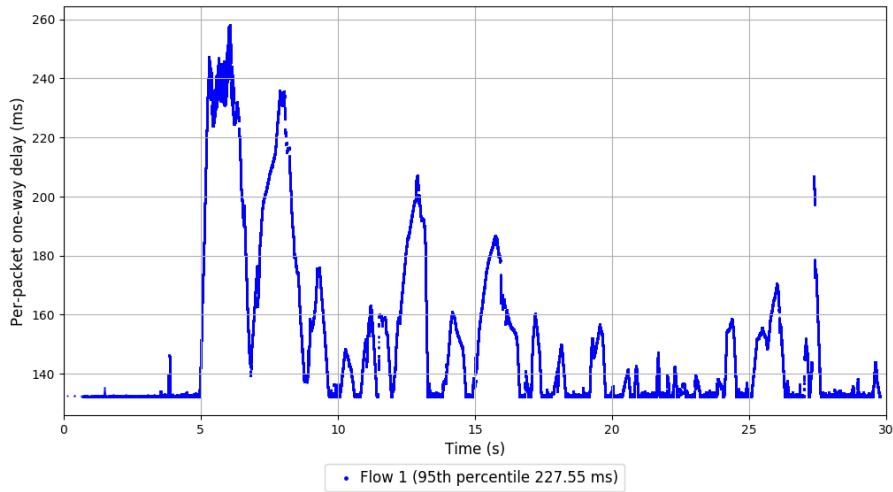
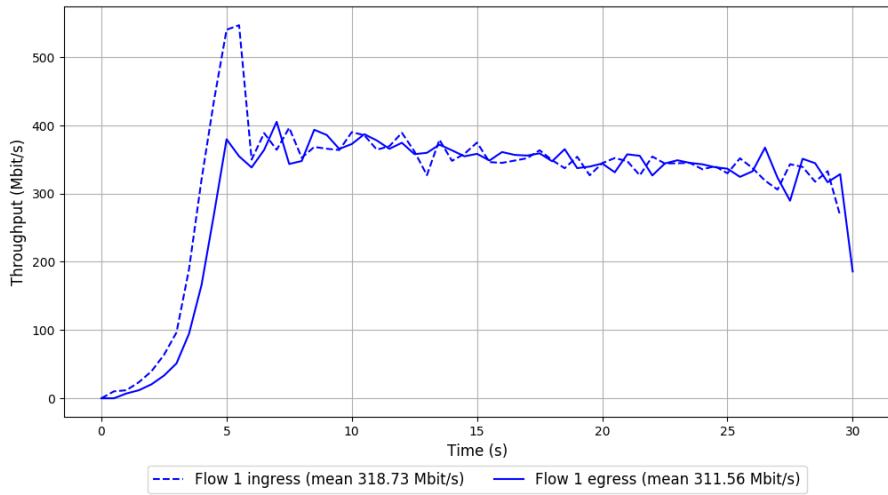


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-03-19 04:44:40
End at: 2019-03-19 04:45:10
Local clock offset: 0.194 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2019-03-19 08:26:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 311.56 Mbit/s
95th percentile per-packet one-way delay: 227.546 ms
Loss rate: 3.12%
-- Flow 1:
Average throughput: 311.56 Mbit/s
95th percentile per-packet one-way delay: 227.546 ms
Loss rate: 3.12%
```

Run 1: Report of PCC-Expr — Data Link

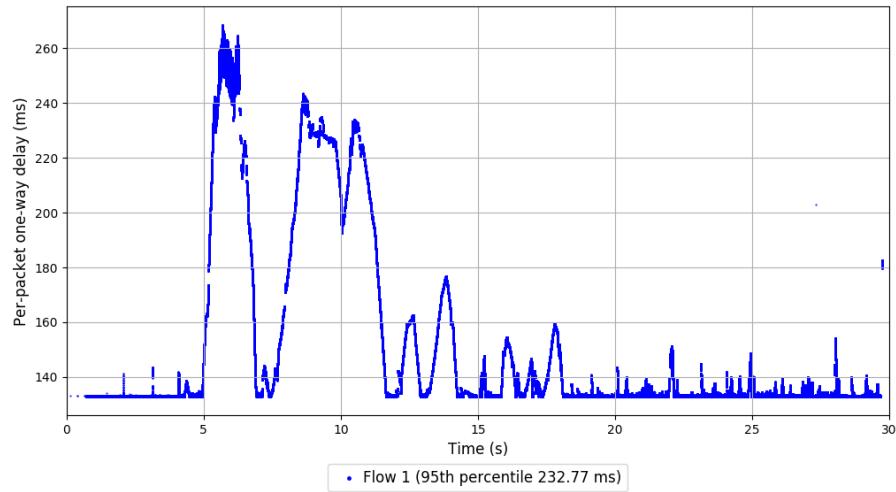
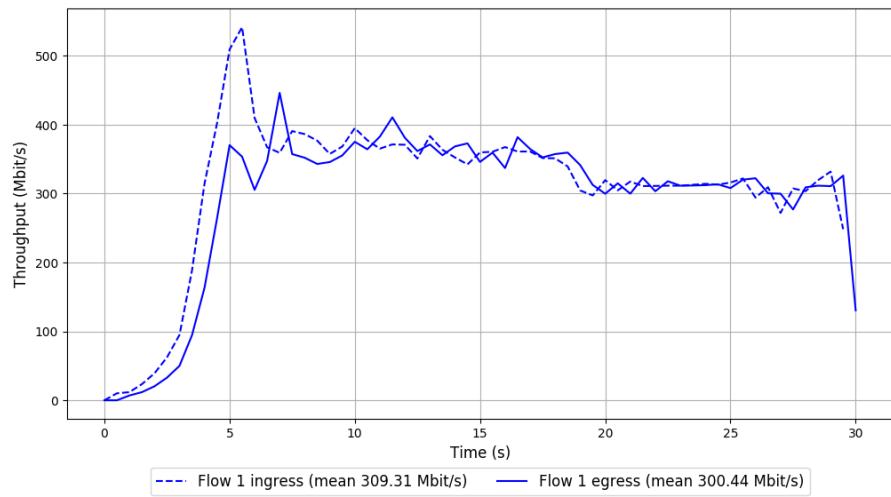


Run 2: Statistics of PCC-Expr

```
Start at: 2019-03-19 05:19:25
End at: 2019-03-19 05:19:55
Local clock offset: -0.196 ms
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2019-03-19 08:27:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 300.44 Mbit/s
95th percentile per-packet one-way delay: 232.774 ms
Loss rate: 3.73%
-- Flow 1:
Average throughput: 300.44 Mbit/s
95th percentile per-packet one-way delay: 232.774 ms
Loss rate: 3.73%
```

Run 2: Report of PCC-Expr — Data Link

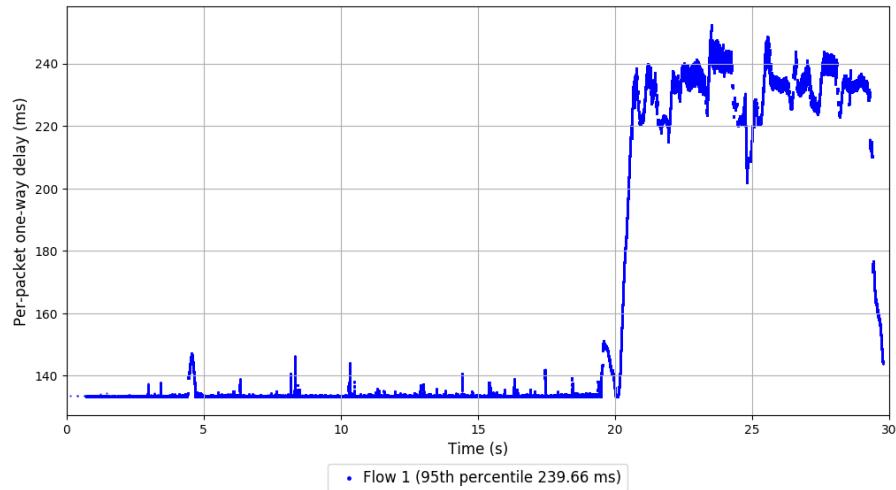
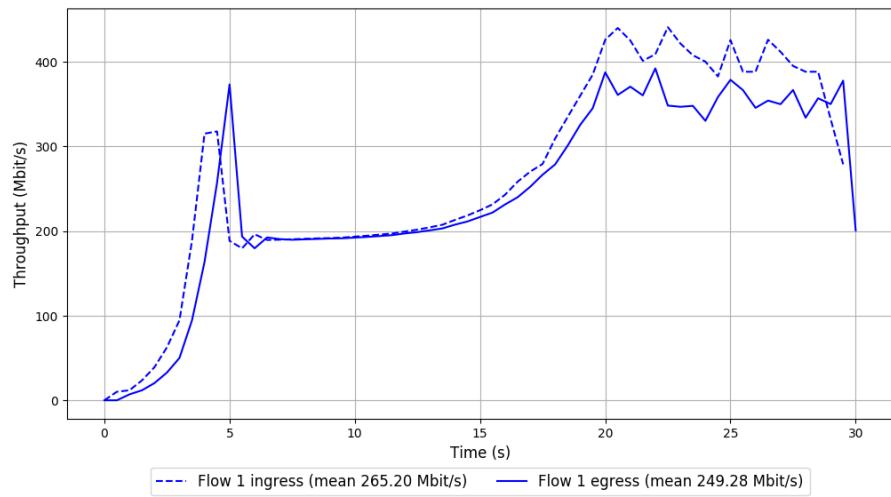


Run 3: Statistics of PCC-Expr

```
Start at: 2019-03-19 05:53:00
End at: 2019-03-19 05:53:30
Local clock offset: 0.289 ms
Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2019-03-19 08:27:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 249.28 Mbit/s
95th percentile per-packet one-way delay: 239.661 ms
Loss rate: 6.84%
-- Flow 1:
Average throughput: 249.28 Mbit/s
95th percentile per-packet one-way delay: 239.661 ms
Loss rate: 6.84%
```

Run 3: Report of PCC-Expr — Data Link

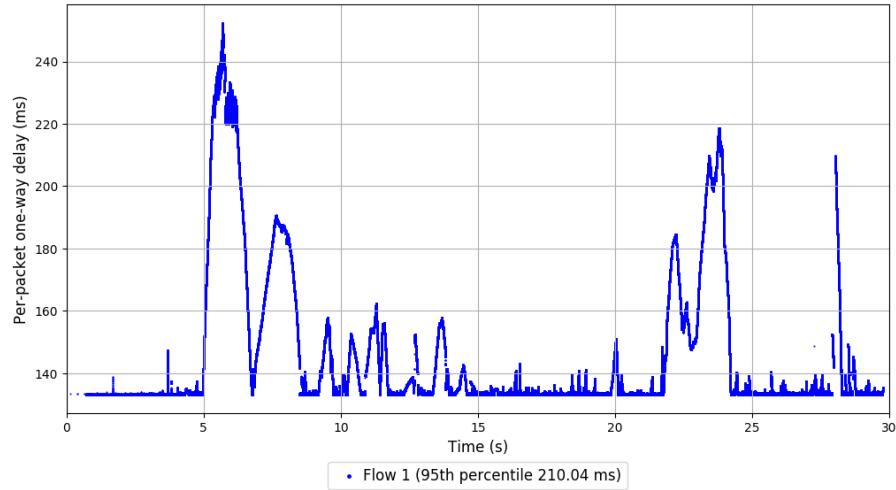
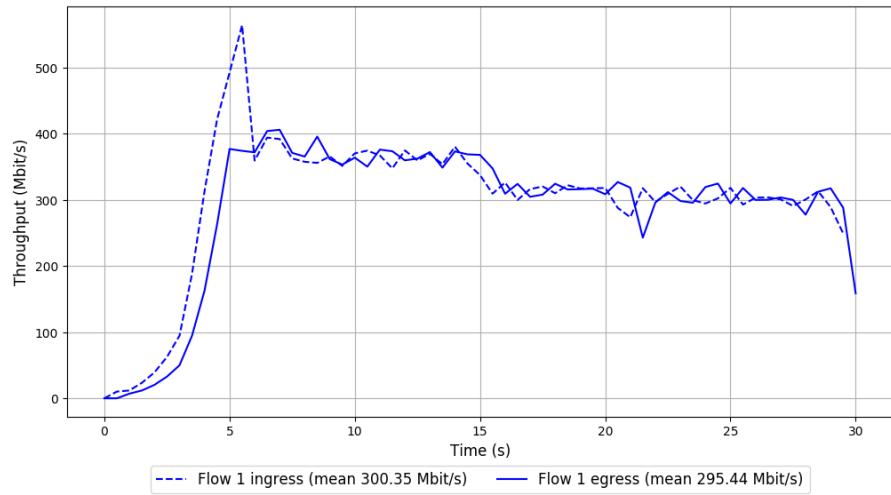


Run 4: Statistics of PCC-Expr

```
Start at: 2019-03-19 06:26:35
End at: 2019-03-19 06:27:05
Local clock offset: -0.048 ms
Remote clock offset: -0.129 ms

# Below is generated by plot.py at 2019-03-19 08:30:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 295.44 Mbit/s
95th percentile per-packet one-way delay: 210.036 ms
Loss rate: 2.51%
-- Flow 1:
Average throughput: 295.44 Mbit/s
95th percentile per-packet one-way delay: 210.036 ms
Loss rate: 2.51%
```

Run 4: Report of PCC-Expr — Data Link

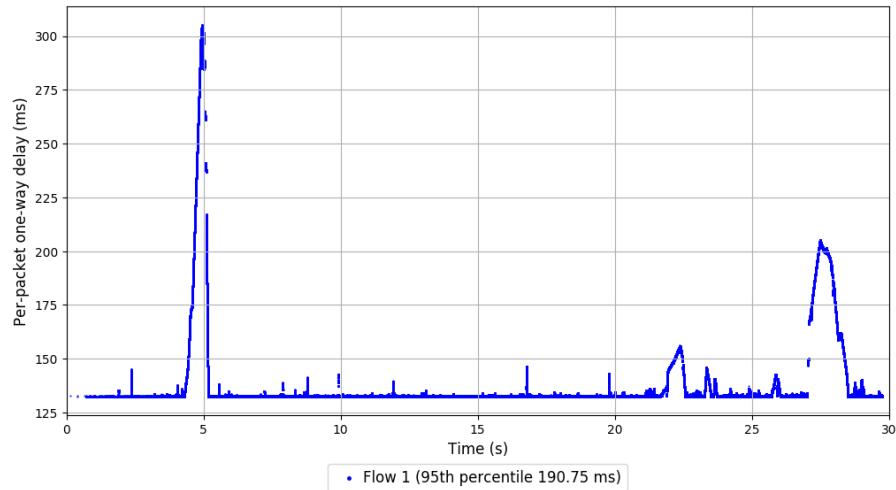
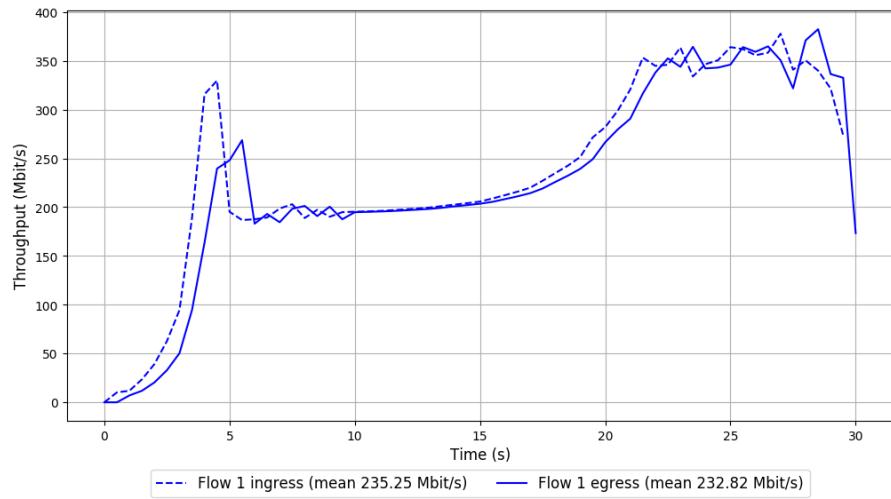


Run 5: Statistics of PCC-Expr

```
Start at: 2019-03-19 07:01:07
End at: 2019-03-19 07:01:37
Local clock offset: -0.437 ms
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2019-03-19 08:30:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 232.82 Mbit/s
95th percentile per-packet one-way delay: 190.752 ms
Loss rate: 1.92%
-- Flow 1:
Average throughput: 232.82 Mbit/s
95th percentile per-packet one-way delay: 190.752 ms
Loss rate: 1.92%
```

Run 5: Report of PCC-Expr — Data Link

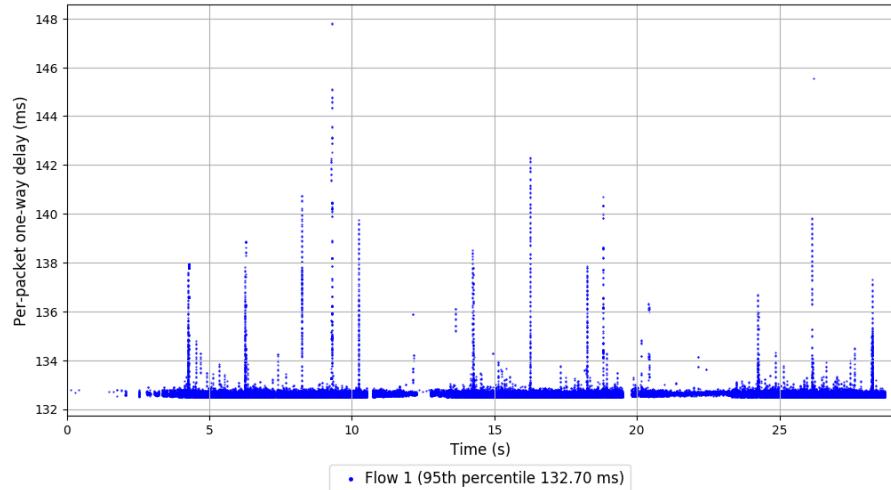
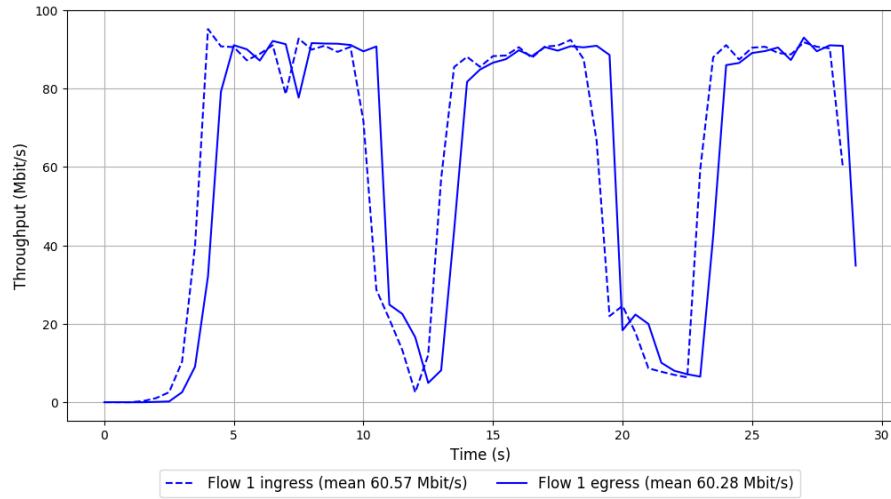


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-03-19 04:20:53
End at: 2019-03-19 04:21:23
Local clock offset: -0.486 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2019-03-19 08:30:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.28 Mbit/s
95th percentile per-packet one-way delay: 132.702 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 60.28 Mbit/s
95th percentile per-packet one-way delay: 132.702 ms
Loss rate: 1.40%
```

Run 1: Report of QUIC Cubic — Data Link

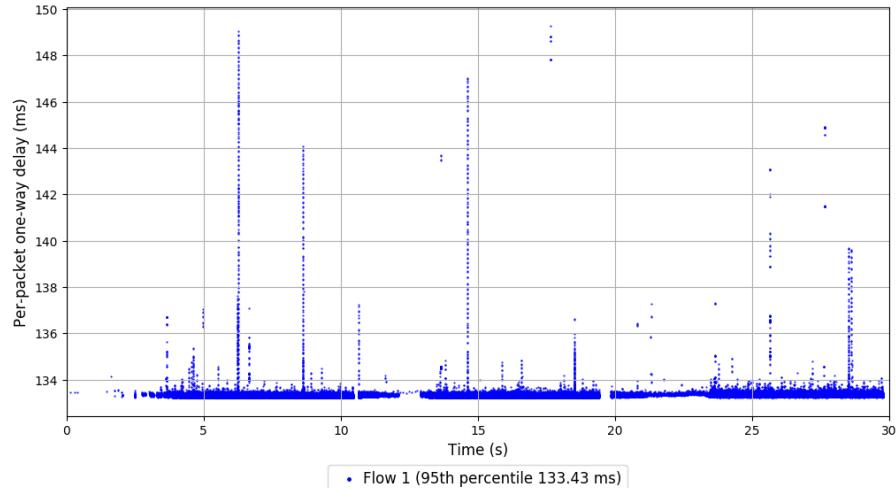
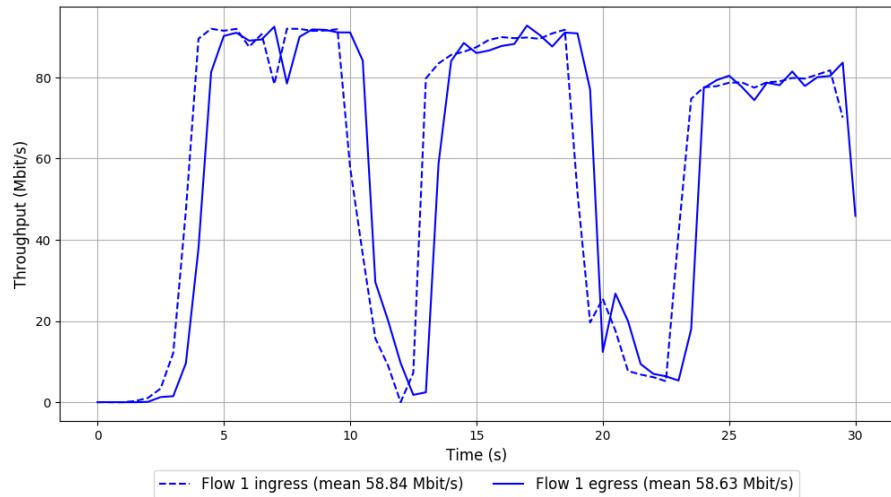


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-03-19 04:56:45
End at: 2019-03-19 04:57:15
Local clock offset: -0.019 ms
Remote clock offset: -0.471 ms

# Below is generated by plot.py at 2019-03-19 08:30:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.63 Mbit/s
95th percentile per-packet one-way delay: 133.431 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 58.63 Mbit/s
95th percentile per-packet one-way delay: 133.431 ms
Loss rate: 1.27%
```

Run 2: Report of QUIC Cubic — Data Link

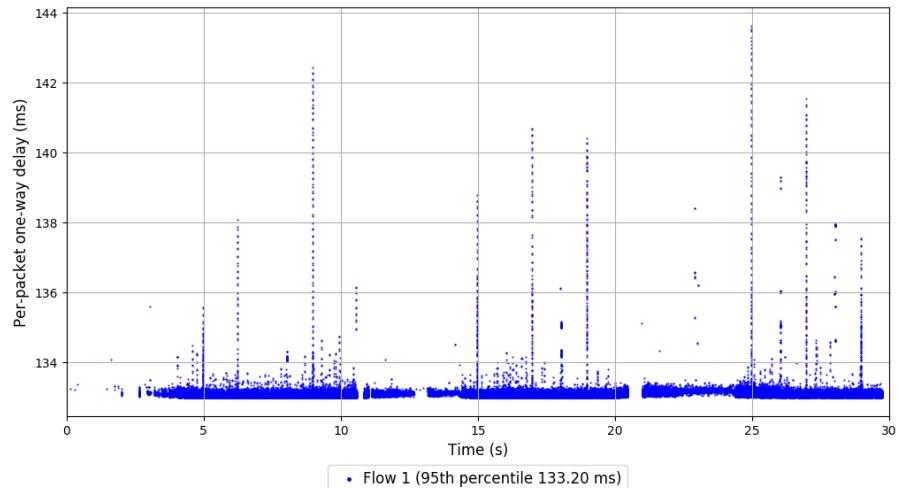
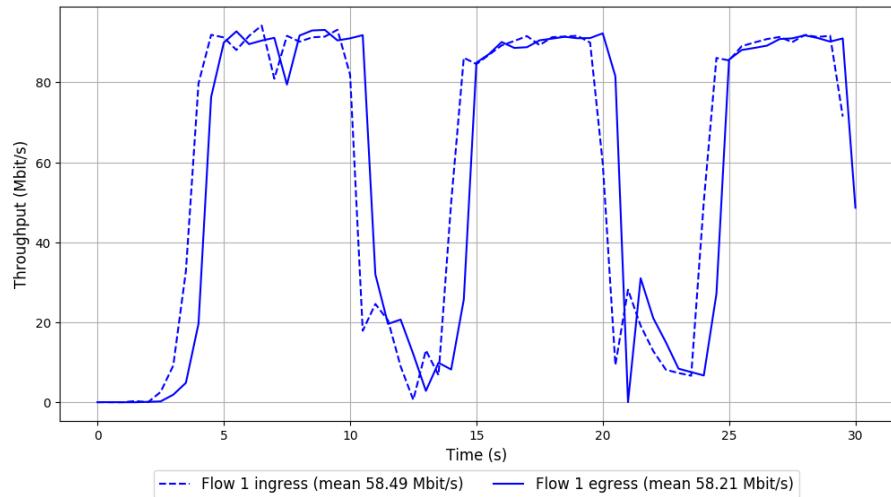


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-03-19 05:30:21
End at: 2019-03-19 05:30:51
Local clock offset: -0.045 ms
Remote clock offset: -0.112 ms

# Below is generated by plot.py at 2019-03-19 08:30:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.21 Mbit/s
95th percentile per-packet one-way delay: 133.199 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 58.21 Mbit/s
95th percentile per-packet one-way delay: 133.199 ms
Loss rate: 1.37%
```

Run 3: Report of QUIC Cubic — Data Link

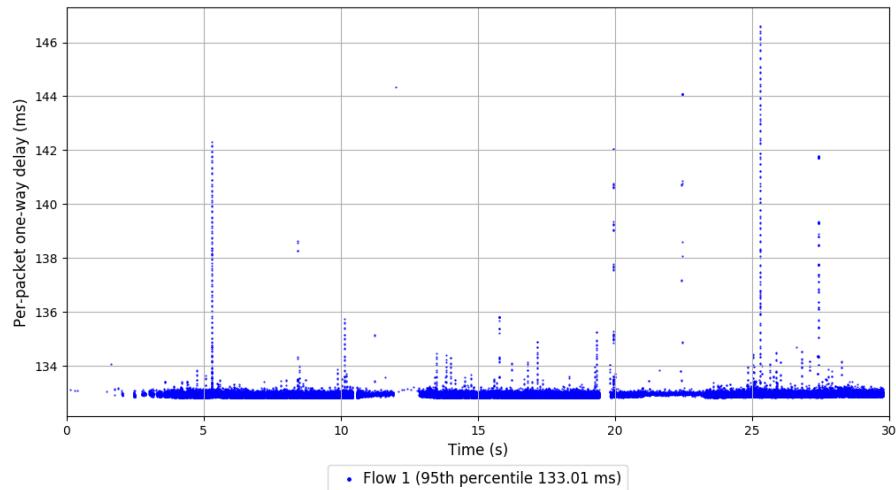
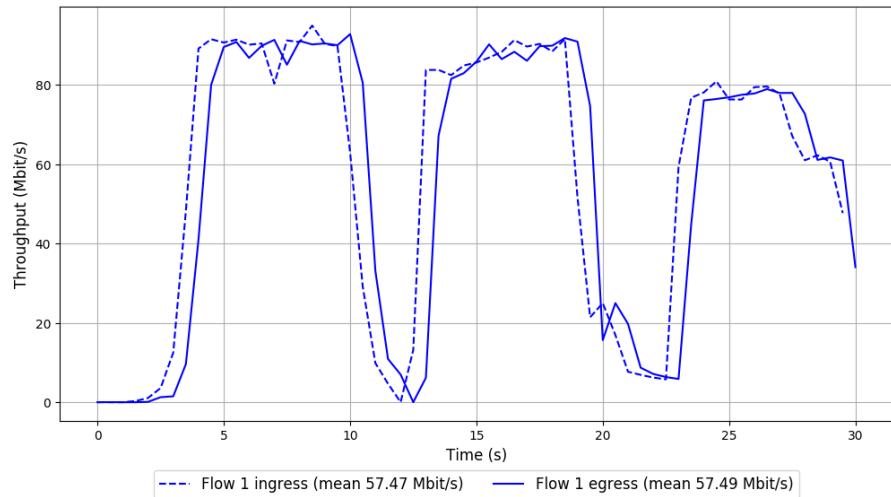


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-03-19 06:04:21
End at: 2019-03-19 06:04:51
Local clock offset: -0.295 ms
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2019-03-19 08:30:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.49 Mbit/s
95th percentile per-packet one-way delay: 133.013 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 57.49 Mbit/s
95th percentile per-packet one-way delay: 133.013 ms
Loss rate: 0.86%
```

Run 4: Report of QUIC Cubic — Data Link

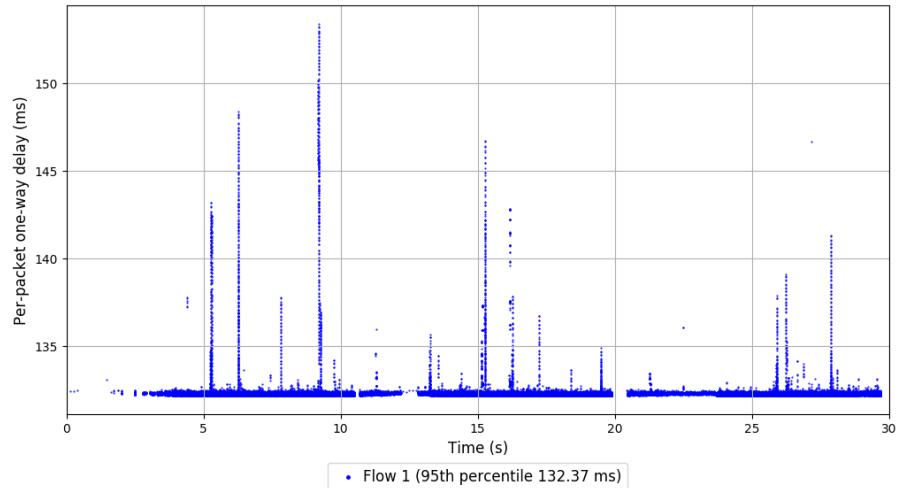
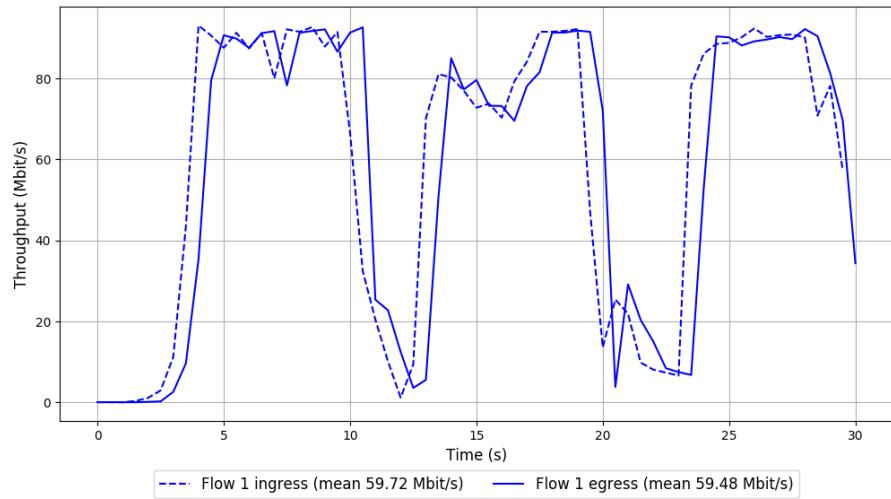


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-03-19 06:38:27
End at: 2019-03-19 06:38:57
Local clock offset: -0.09 ms
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2019-03-19 08:30:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.48 Mbit/s
95th percentile per-packet one-way delay: 132.373 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 59.48 Mbit/s
95th percentile per-packet one-way delay: 132.373 ms
Loss rate: 1.28%
```

Run 5: Report of QUIC Cubic — Data Link

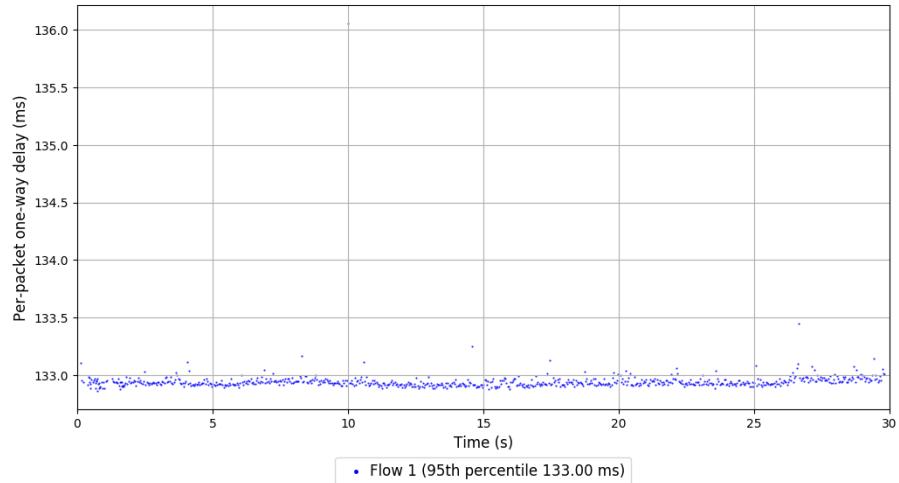
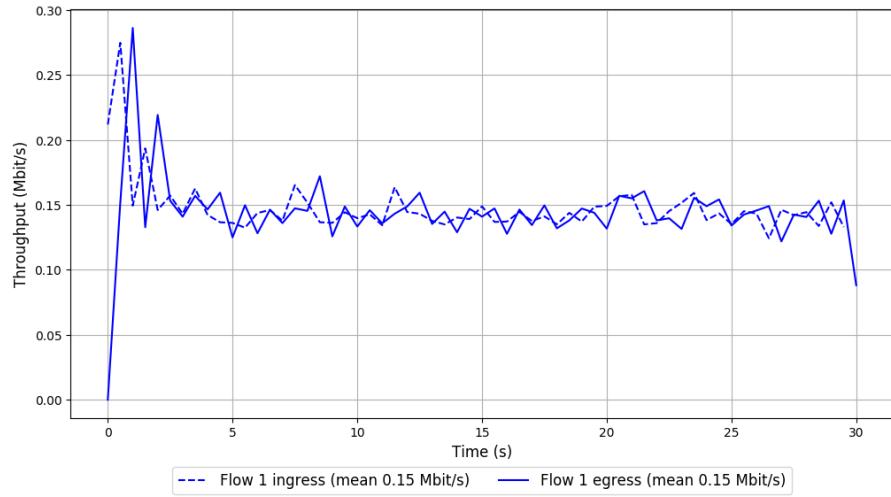


```
Run 1: Statistics of SCReAM

Start at: 2019-03-19 04:14:40
End at: 2019-03-19 04:15:10
Local clock offset: -0.31 ms
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2019-03-19 08:30:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.004 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.004 ms
Loss rate: 0.88%
```

Run 1: Report of SCReAM — Data Link

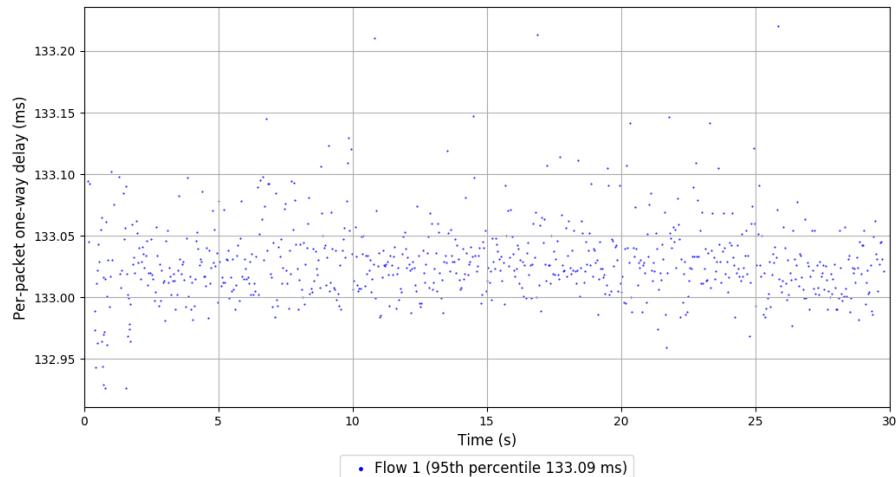
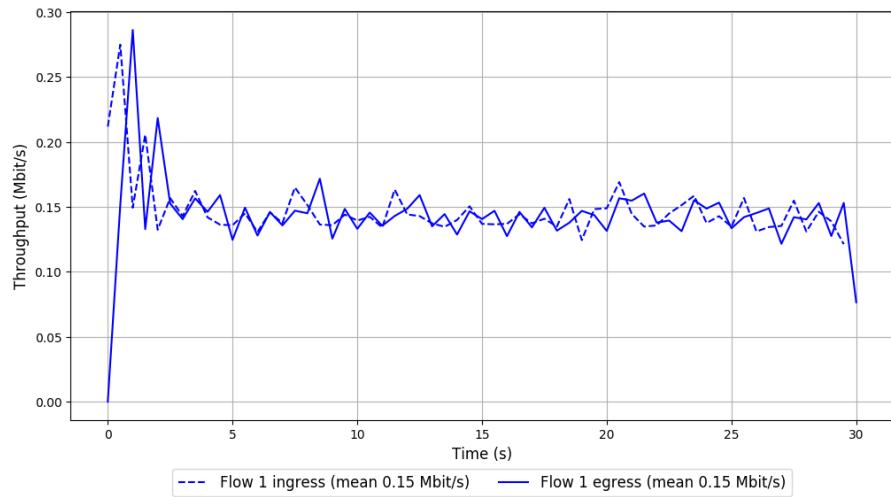


Run 2: Statistics of SCReAM

```
Start at: 2019-03-19 04:50:28
End at: 2019-03-19 04:50:58
Local clock offset: 0.347 ms
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2019-03-19 08:30:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.091 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.091 ms
Loss rate: 0.88%
```

Run 2: Report of SCReAM — Data Link

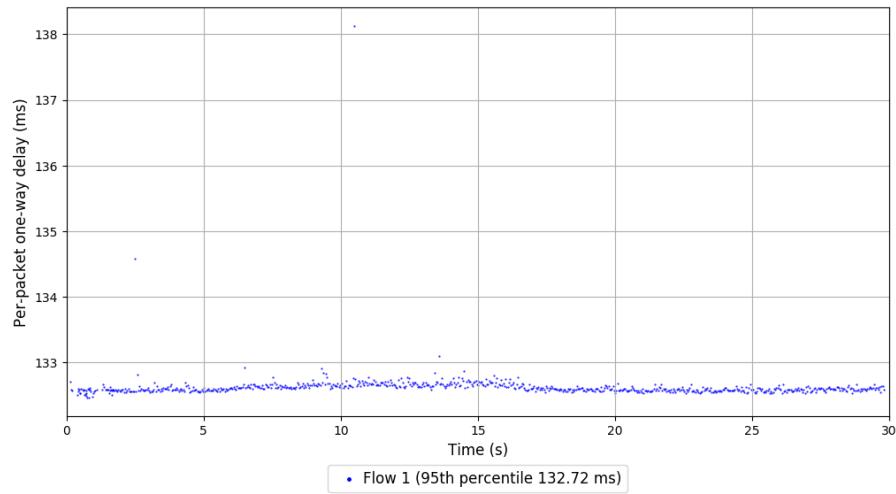
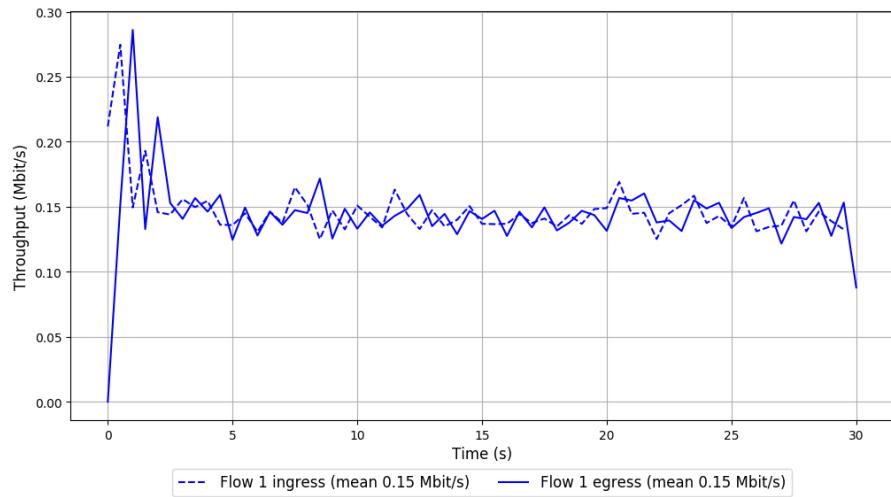


Run 3: Statistics of SCReAM

```
Start at: 2019-03-19 05:24:30
End at: 2019-03-19 05:25:00
Local clock offset: -0.725 ms
Remote clock offset: -0.121 ms

# Below is generated by plot.py at 2019-03-19 08:30:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.720 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.720 ms
Loss rate: 0.88%
```

Run 3: Report of SCReAM — Data Link

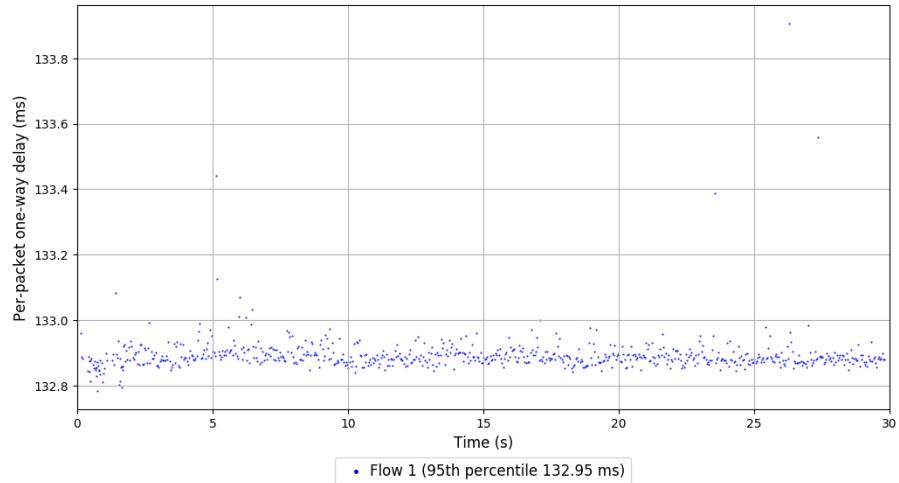
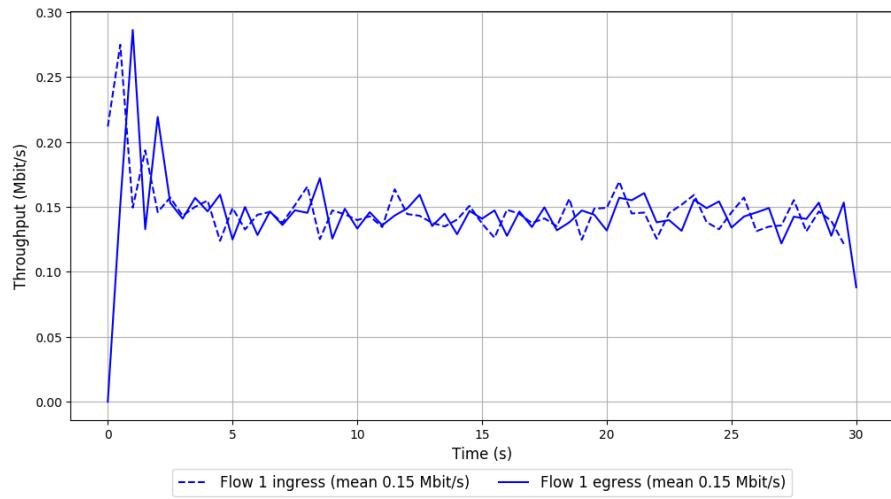


Run 4: Statistics of SCReAM

```
Start at: 2019-03-19 05:57:47
End at: 2019-03-19 05:58:17
Local clock offset: 0.186 ms
Remote clock offset: 0.291 ms

# Below is generated by plot.py at 2019-03-19 08:30:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.950 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.950 ms
Loss rate: 0.75%
```

Run 4: Report of SCReAM — Data Link

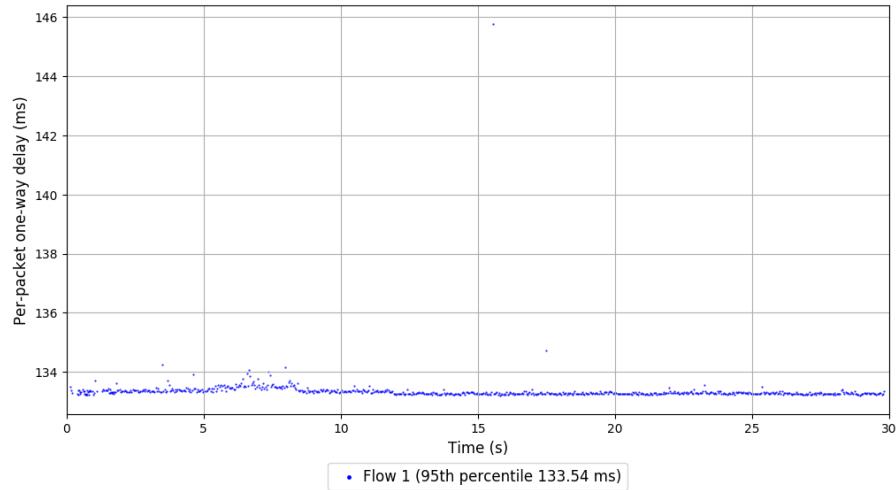
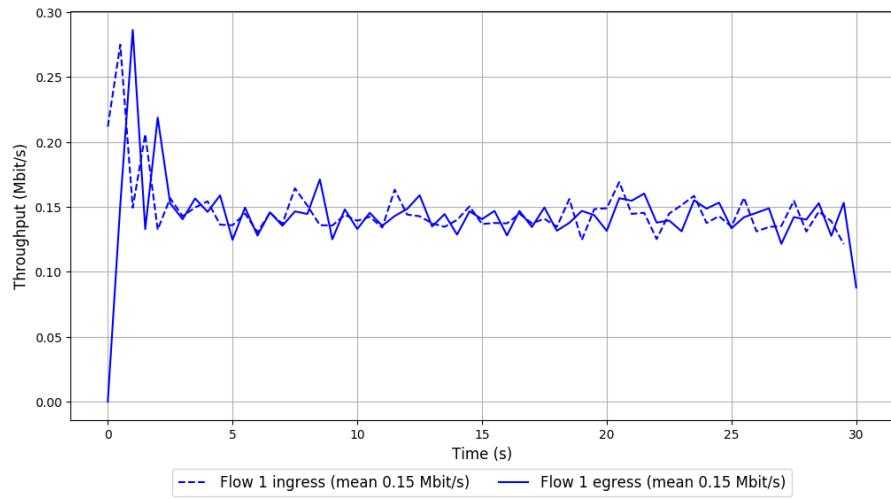


Run 5: Statistics of SCReAM

```
Start at: 2019-03-19 06:32:16
End at: 2019-03-19 06:32:46
Local clock offset: 0.228 ms
Remote clock offset: -0.132 ms

# Below is generated by plot.py at 2019-03-19 08:30:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.536 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.536 ms
Loss rate: 0.75%
```

Run 5: Report of SCReAM — Data Link

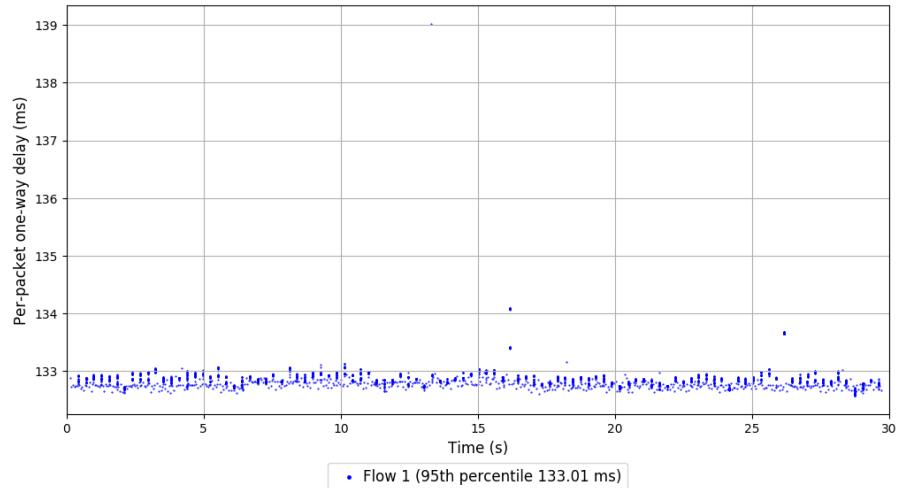
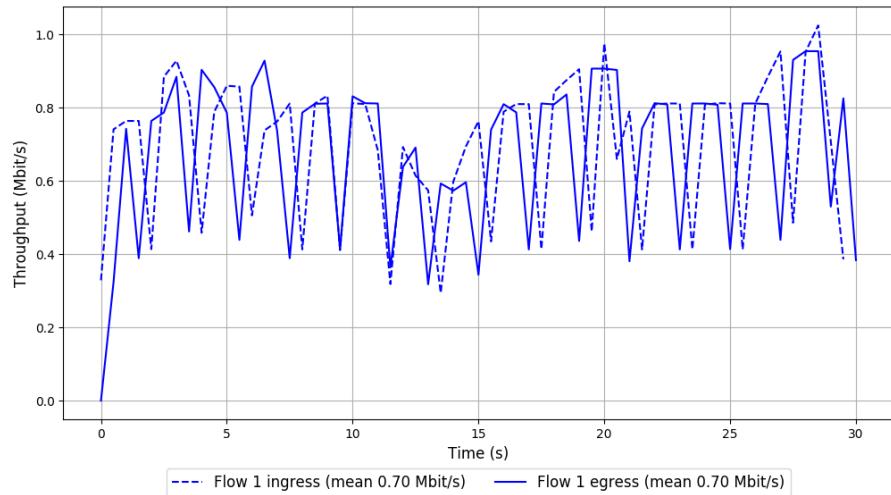


Run 1: Statistics of Sprout

```
Start at: 2019-03-19 04:37:40
End at: 2019-03-19 04:38:10
Local clock offset: -0.501 ms
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2019-03-19 08:30:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.70 Mbit/s
95th percentile per-packet one-way delay: 133.008 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 0.70 Mbit/s
95th percentile per-packet one-way delay: 133.008 ms
Loss rate: 0.91%
```

Run 1: Report of Sprout — Data Link

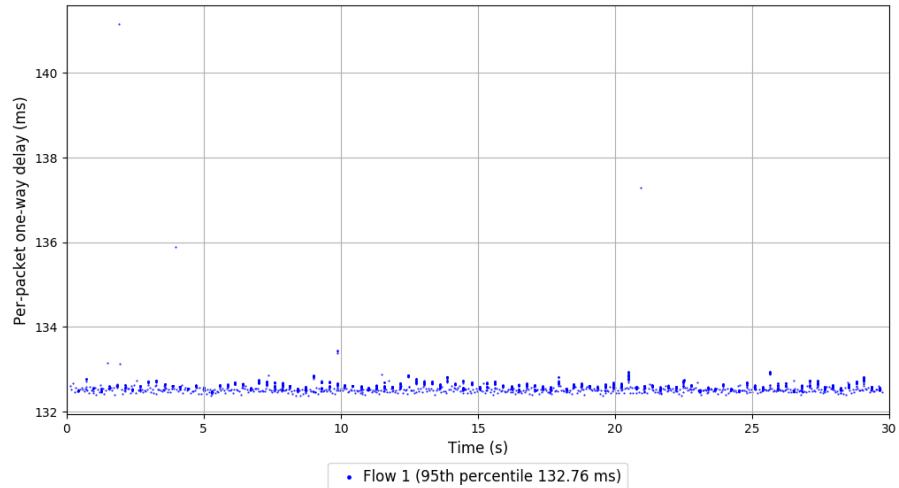
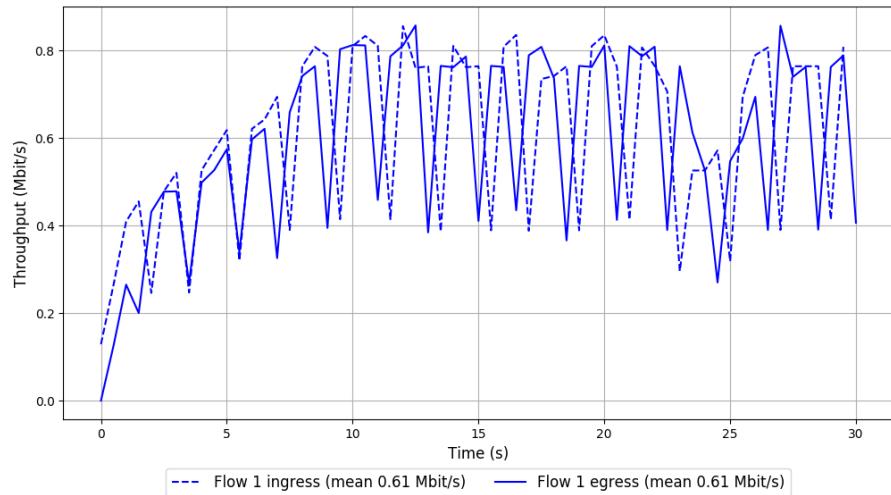


Run 2: Statistics of Sprout

```
Start at: 2019-03-19 05:13:25
End at: 2019-03-19 05:13:55
Local clock offset: 0.11 ms
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2019-03-19 08:30:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 132.764 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 132.764 ms
Loss rate: 1.12%
```

Run 2: Report of Sprout — Data Link

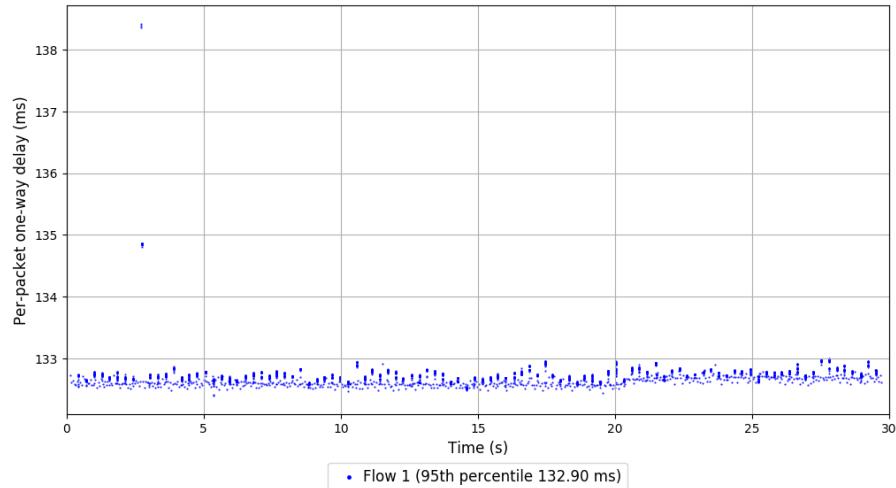
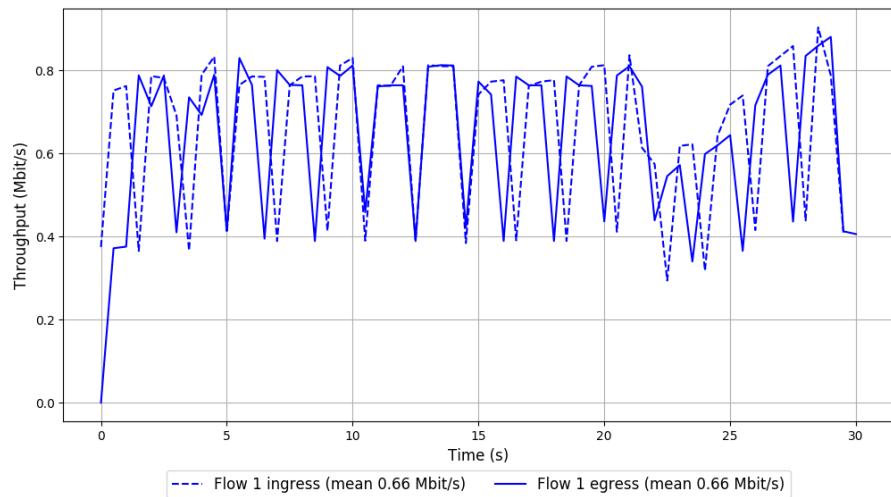


Run 3: Statistics of Sprout

```
Start at: 2019-03-19 05:46:36
End at: 2019-03-19 05:47:06
Local clock offset: -0.68 ms
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2019-03-19 08:31:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 132.900 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 132.900 ms
Loss rate: 1.03%
```

Run 3: Report of Sprout — Data Link

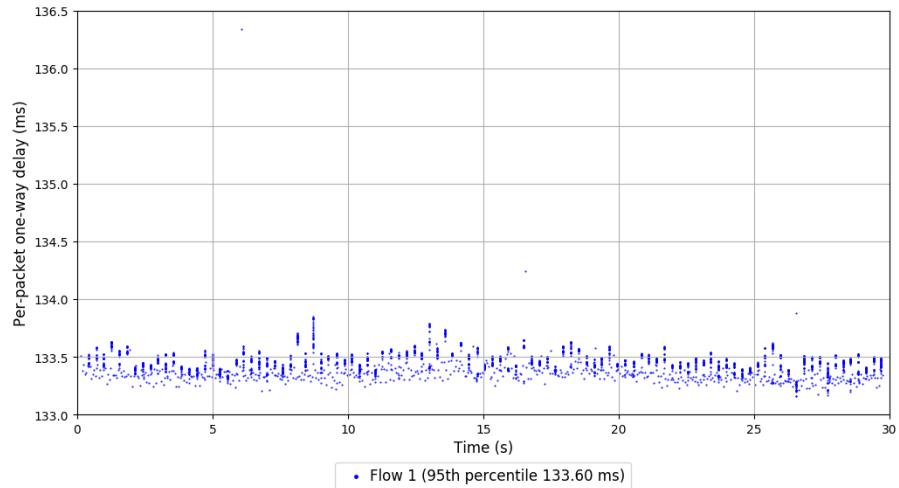
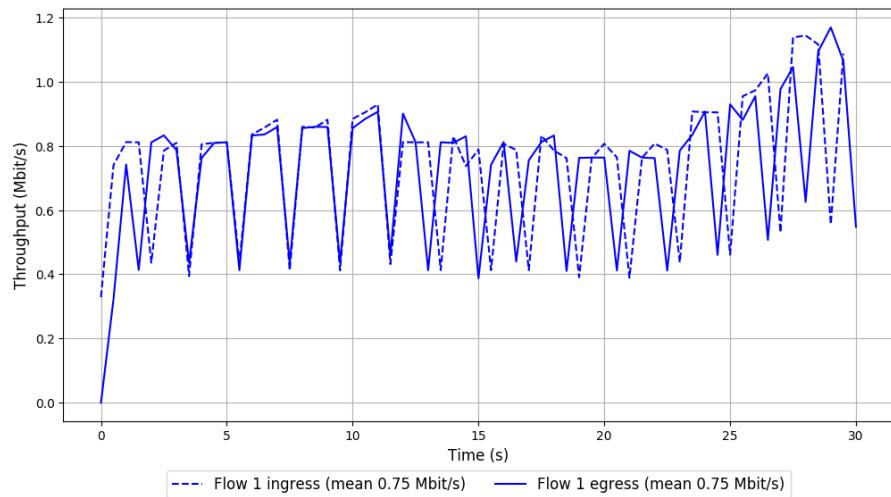


Run 4: Statistics of Sprout

```
Start at: 2019-03-19 06:20:10
End at: 2019-03-19 06:20:40
Local clock offset: 0.011 ms
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2019-03-19 08:31:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.75 Mbit/s
95th percentile per-packet one-way delay: 133.598 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 0.75 Mbit/s
95th percentile per-packet one-way delay: 133.598 ms
Loss rate: 1.22%
```

Run 4: Report of Sprout — Data Link

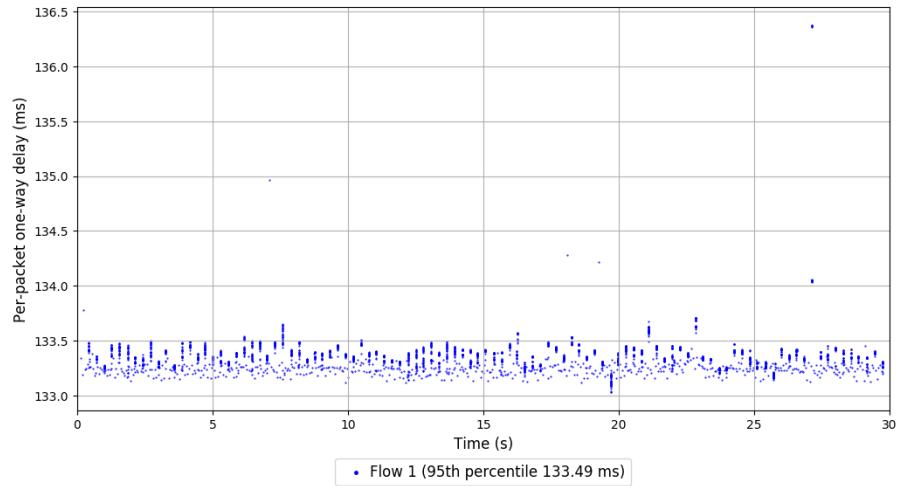
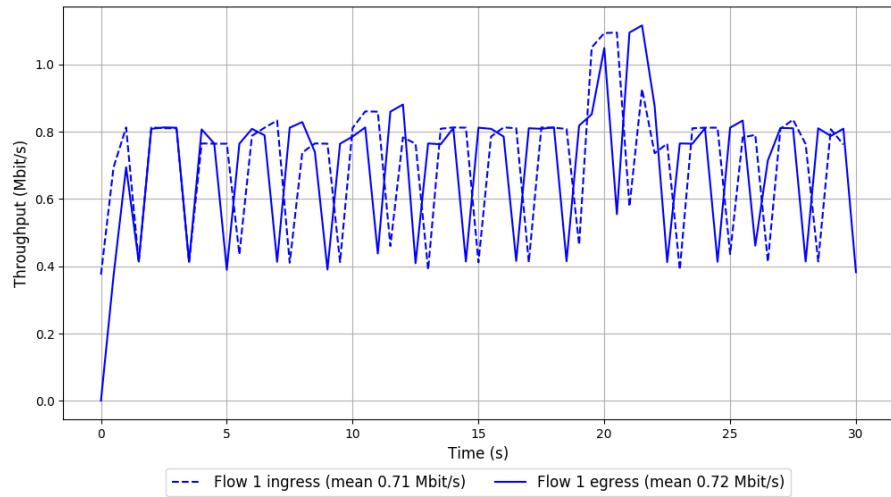


Run 5: Statistics of Sprout

```
Start at: 2019-03-19 06:54:38
End at: 2019-03-19 06:55:08
Local clock offset: -0.086 ms
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2019-03-19 08:31:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.72 Mbit/s
95th percentile per-packet one-way delay: 133.492 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 0.72 Mbit/s
95th percentile per-packet one-way delay: 133.492 ms
Loss rate: 0.90%
```

Run 5: Report of Sprout — Data Link

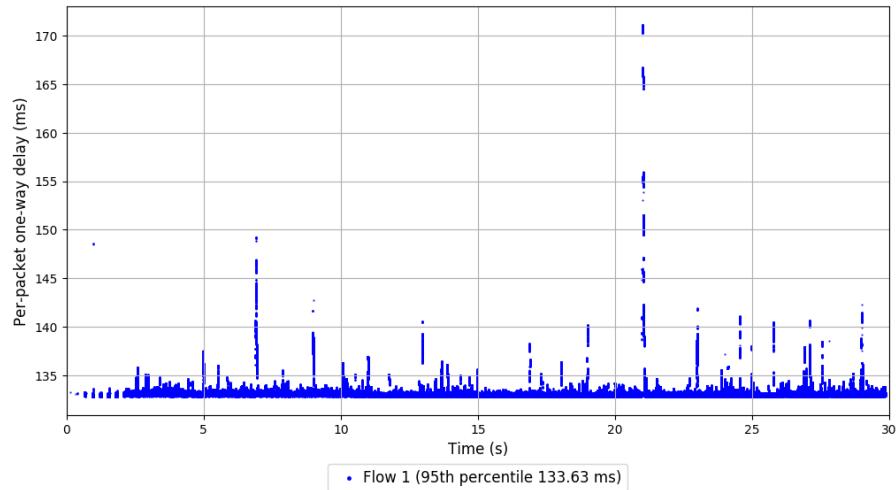
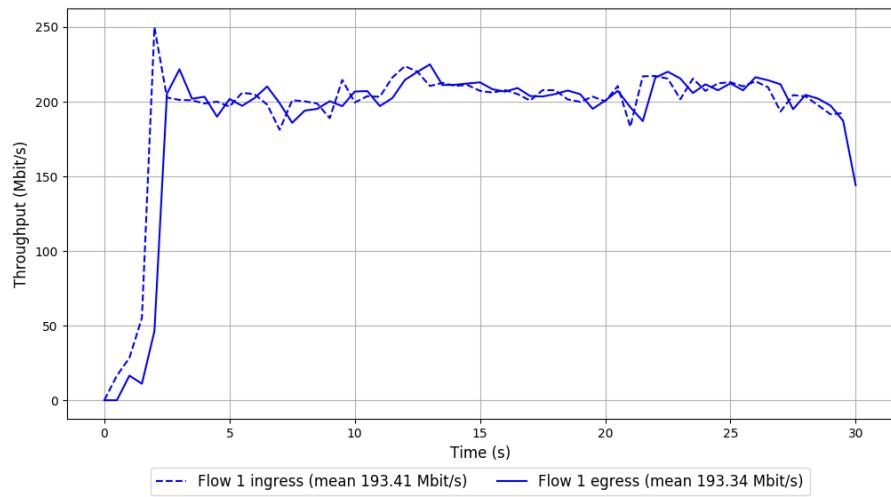


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-03-19 04:22:10
End at: 2019-03-19 04:22:40
Local clock offset: -0.146 ms
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2019-03-19 08:33:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 193.34 Mbit/s
95th percentile per-packet one-way delay: 133.635 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 193.34 Mbit/s
95th percentile per-packet one-way delay: 133.635 ms
Loss rate: 0.93%
```

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

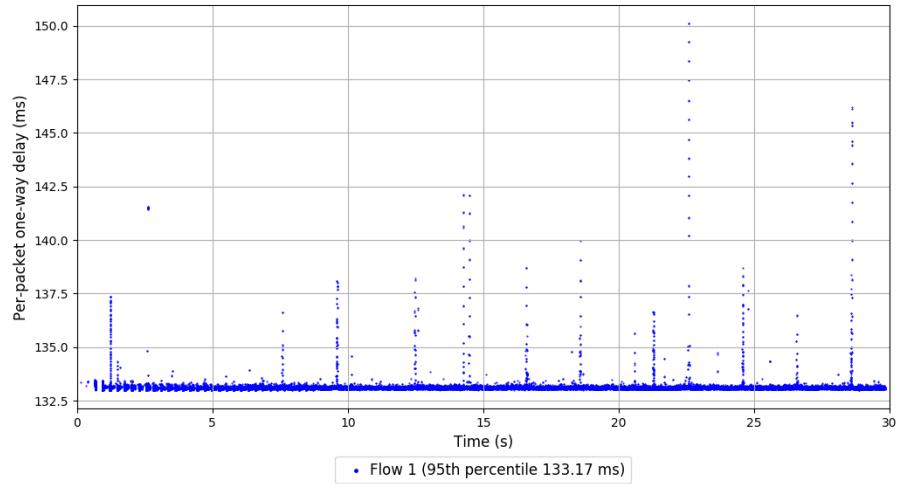
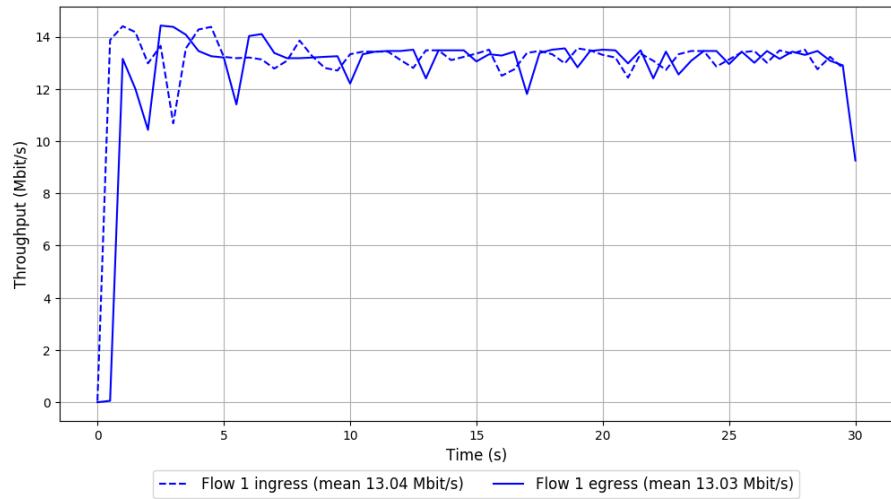


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-03-19 04:58:01
End at: 2019-03-19 04:58:31
Local clock offset: 0.004 ms
Remote clock offset: -0.13 ms

# Below is generated by plot.py at 2019-03-19 08:33:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.03 Mbit/s
95th percentile per-packet one-way delay: 133.170 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 13.03 Mbit/s
95th percentile per-packet one-way delay: 133.170 ms
Loss rate: 0.92%
```

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

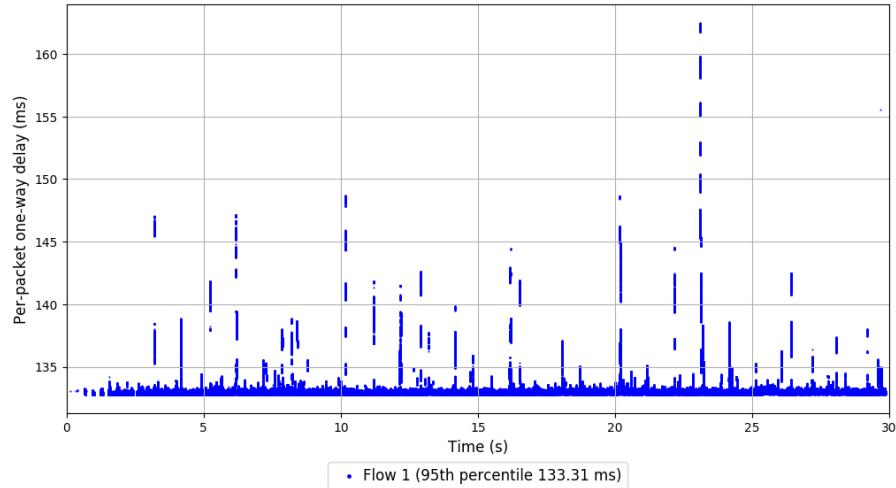
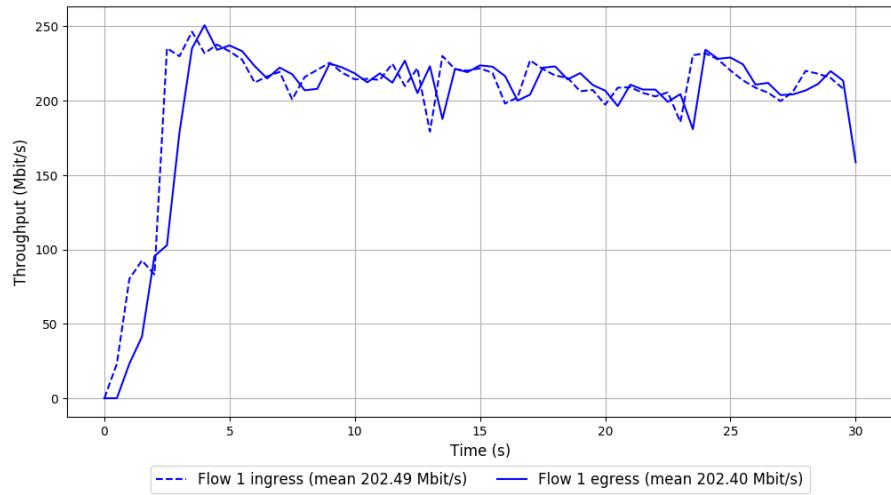


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-03-19 05:31:35
End at: 2019-03-19 05:32:05
Local clock offset: -0.327 ms
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2019-03-19 08:33:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 202.40 Mbit/s
95th percentile per-packet one-way delay: 133.310 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 202.40 Mbit/s
95th percentile per-packet one-way delay: 133.310 ms
Loss rate: 0.93%
```

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

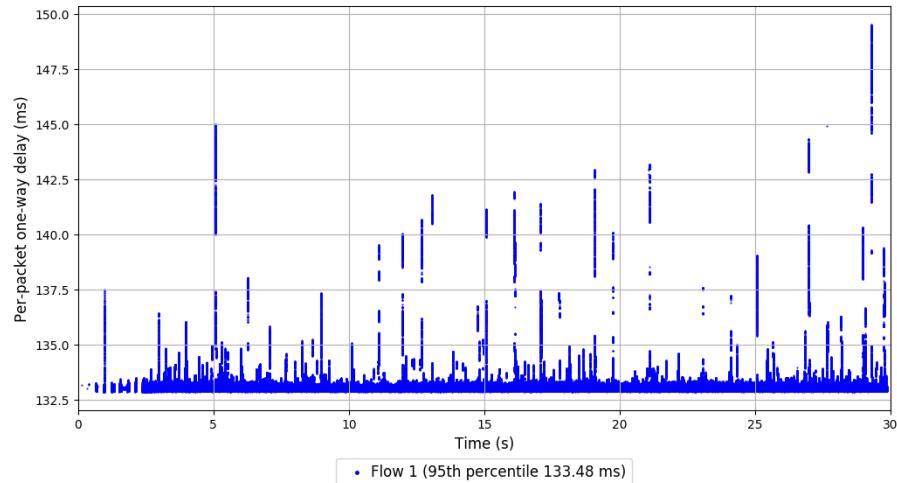
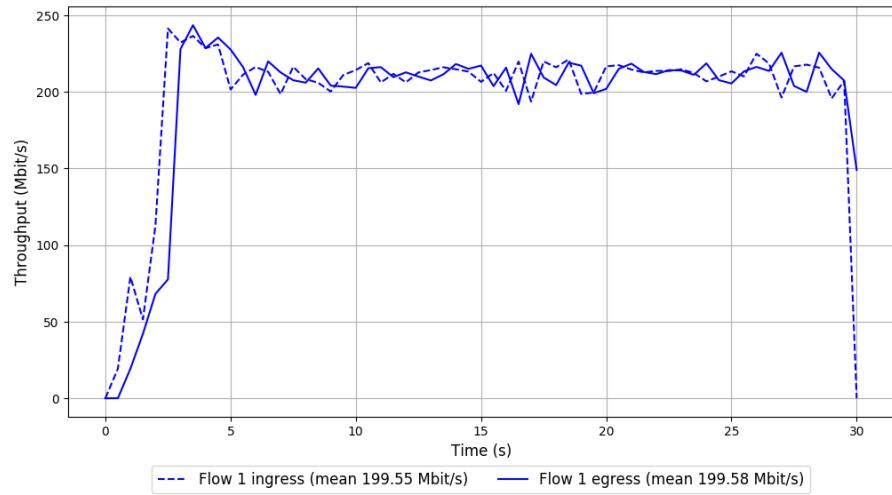


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-03-19 06:05:38
End at: 2019-03-19 06:06:08
Local clock offset: -0.036 ms
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2019-03-19 08:33:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 199.58 Mbit/s
95th percentile per-packet one-way delay: 133.479 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 199.58 Mbit/s
95th percentile per-packet one-way delay: 133.479 ms
Loss rate: 0.87%
```

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

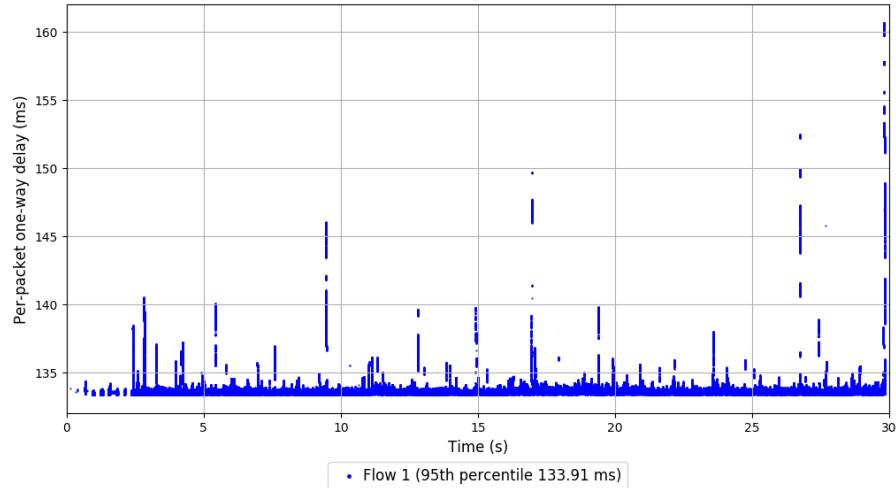
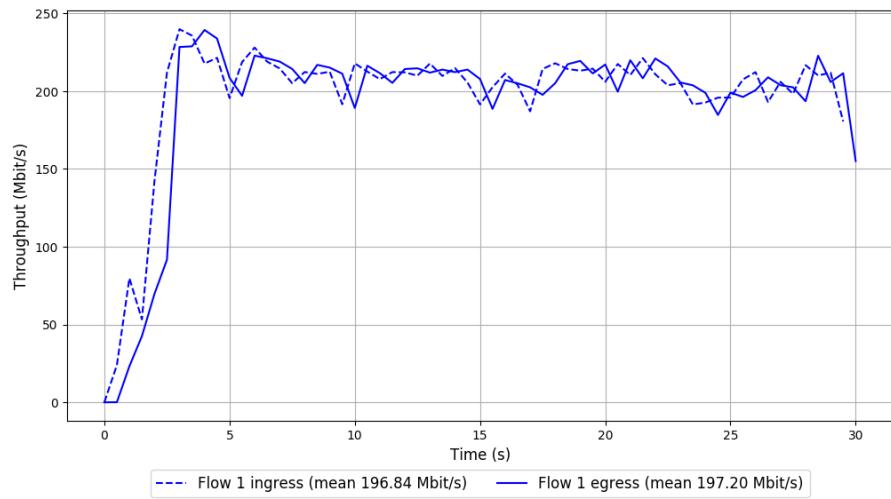


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-03-19 06:39:44
End at: 2019-03-19 06:40:14
Local clock offset: -0.038 ms
Remote clock offset: -0.473 ms

# Below is generated by plot.py at 2019-03-19 08:33:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 197.20 Mbit/s
95th percentile per-packet one-way delay: 133.914 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 197.20 Mbit/s
95th percentile per-packet one-way delay: 133.914 ms
Loss rate: 0.71%
```

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

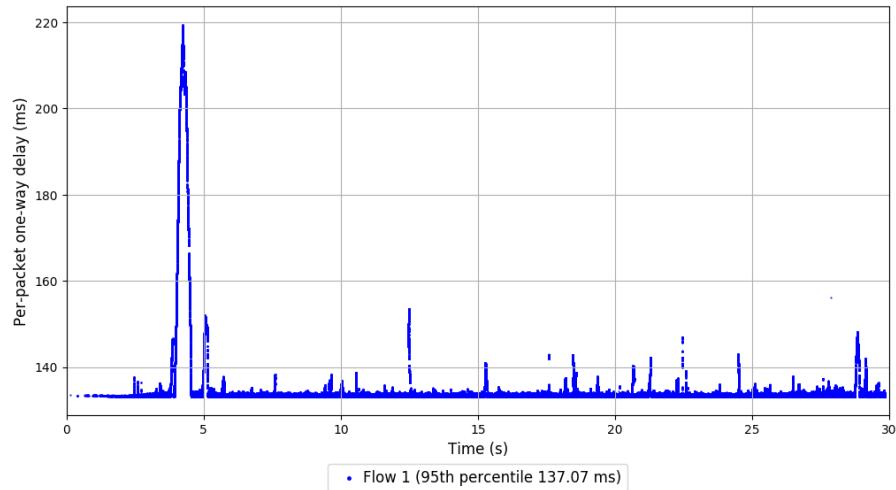
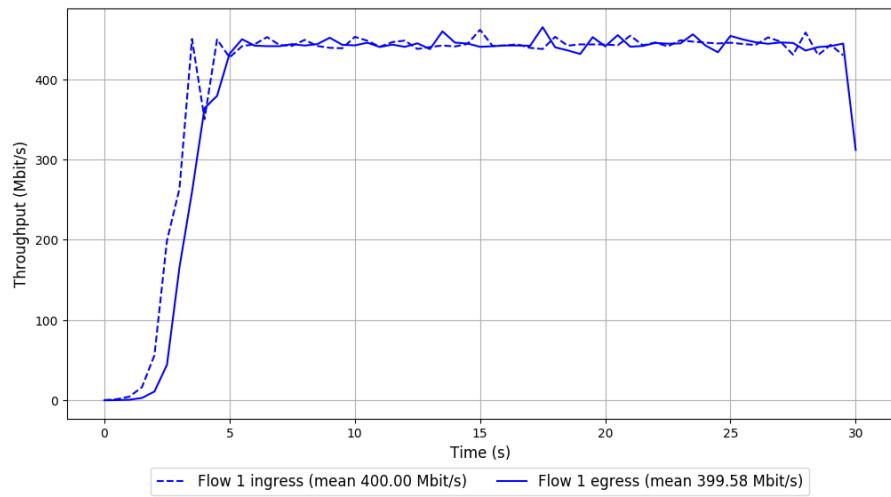


Run 1: Statistics of TCP Vegas

```
Start at: 2019-03-19 04:38:51
End at: 2019-03-19 04:39:21
Local clock offset: 0.132 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-03-19 08:34:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 399.58 Mbit/s
95th percentile per-packet one-way delay: 137.066 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 399.58 Mbit/s
95th percentile per-packet one-way delay: 137.066 ms
Loss rate: 0.99%
```

Run 1: Report of TCP Vegas — Data Link

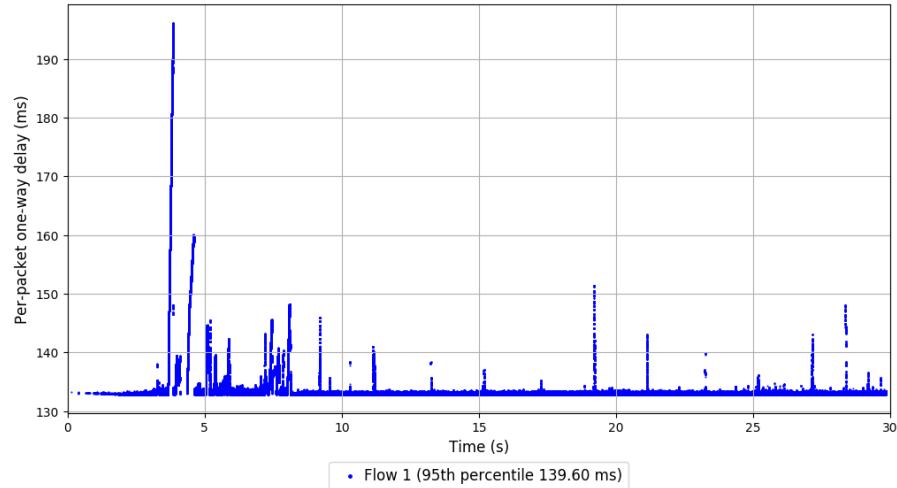
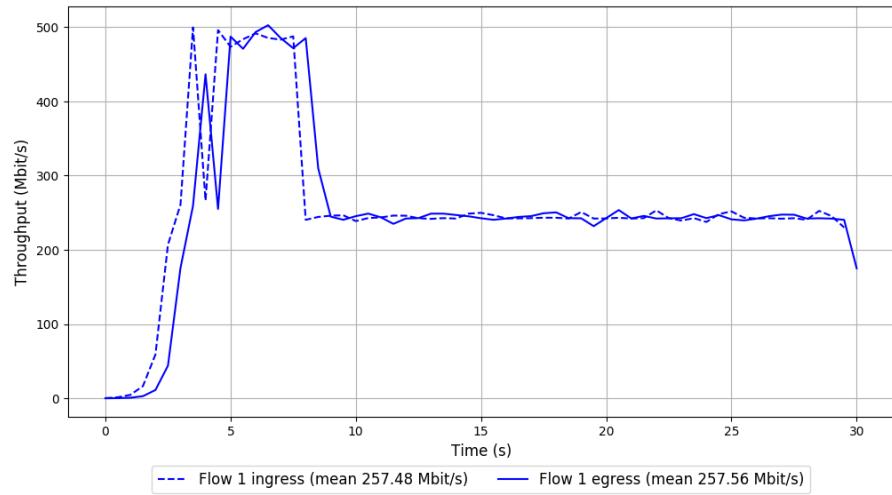


Run 2: Statistics of TCP Vegas

```
Start at: 2019-03-19 05:14:35
End at: 2019-03-19 05:15:05
Local clock offset: -0.185 ms
Remote clock offset: -0.109 ms

# Below is generated by plot.py at 2019-03-19 08:34:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 257.56 Mbit/s
95th percentile per-packet one-way delay: 139.598 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 257.56 Mbit/s
95th percentile per-packet one-way delay: 139.598 ms
Loss rate: 0.85%
```

Run 2: Report of TCP Vegas — Data Link

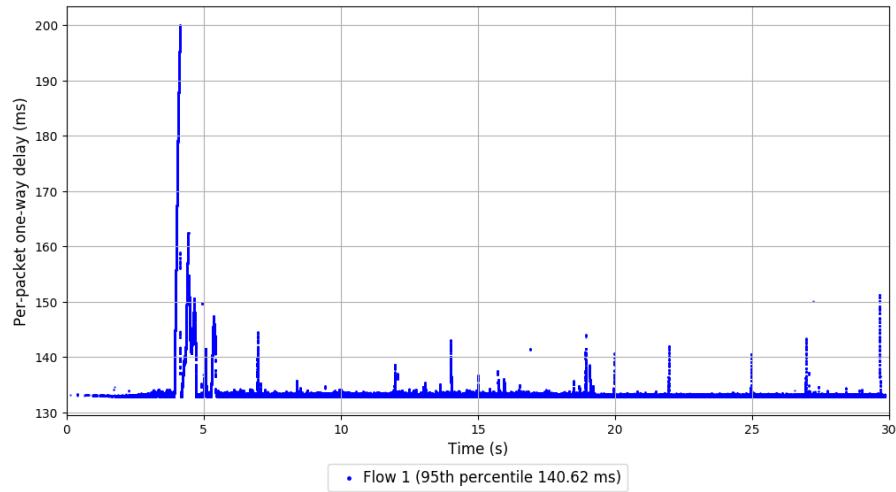
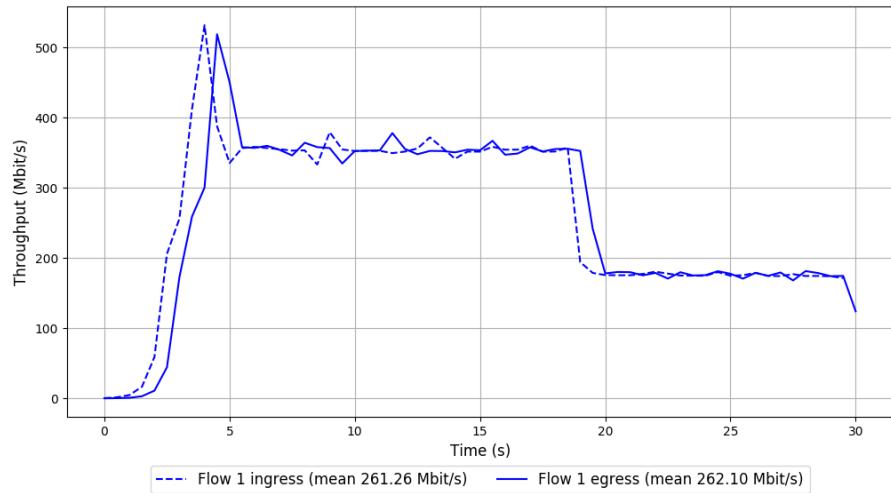


Run 3: Statistics of TCP Vegas

```
Start at: 2019-03-19 05:47:47
End at: 2019-03-19 05:48:17
Local clock offset: -0.282 ms
Remote clock offset: -0.135 ms

# Below is generated by plot.py at 2019-03-19 08:35:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 262.10 Mbit/s
95th percentile per-packet one-way delay: 140.624 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 262.10 Mbit/s
95th percentile per-packet one-way delay: 140.624 ms
Loss rate: 0.57%
```

Run 3: Report of TCP Vegas — Data Link

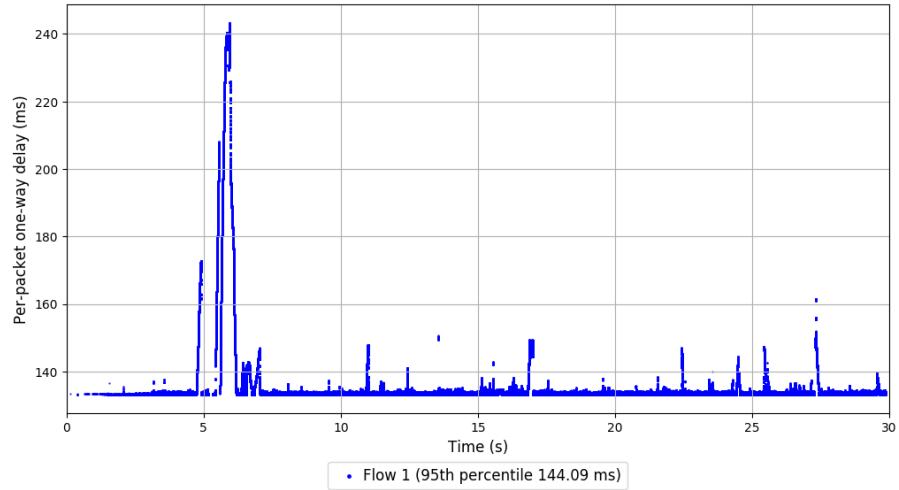
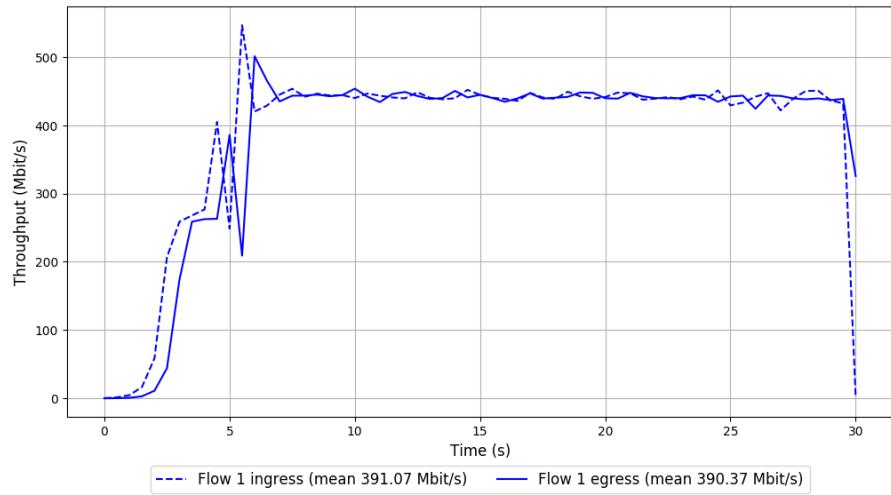


Run 4: Statistics of TCP Vegas

```
Start at: 2019-03-19 06:21:21
End at: 2019-03-19 06:21:51
Local clock offset: 0.361 ms
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2019-03-19 08:38:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 390.37 Mbit/s
95th percentile per-packet one-way delay: 144.088 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 390.37 Mbit/s
95th percentile per-packet one-way delay: 144.088 ms
Loss rate: 1.07%
```

Run 4: Report of TCP Vegas — Data Link

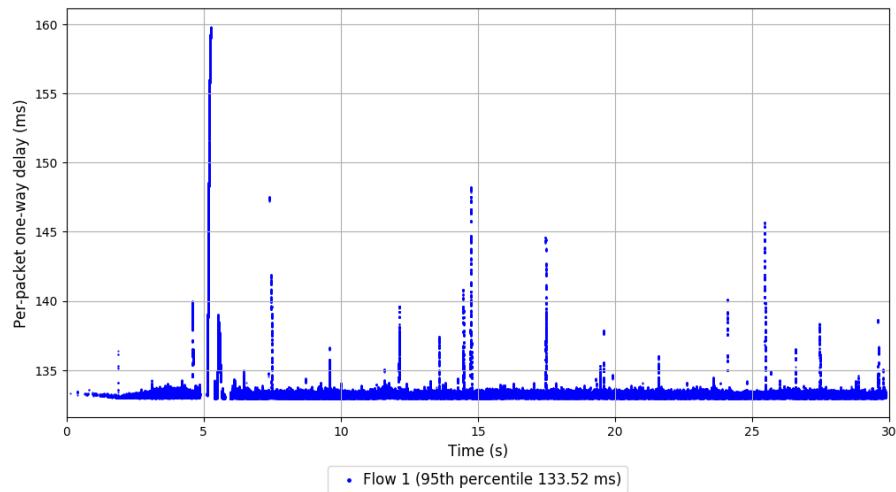
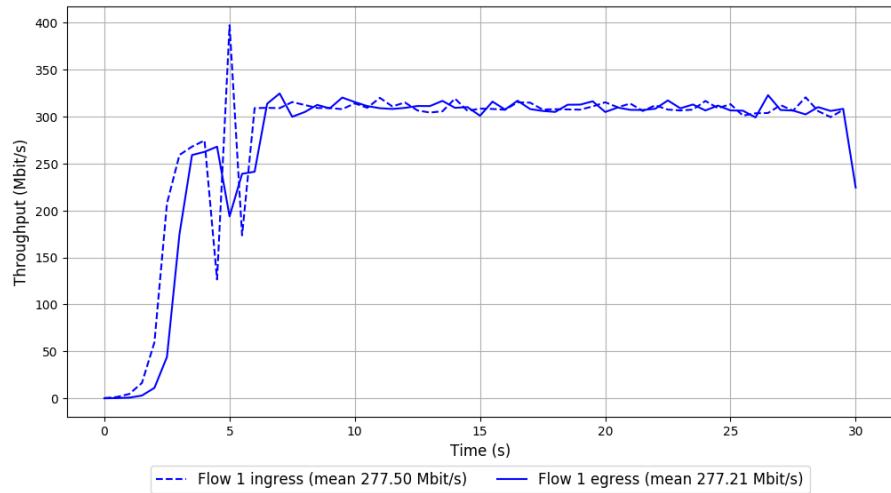


Run 5: Statistics of TCP Vegas

```
Start at: 2019-03-19 06:55:49
End at: 2019-03-19 06:56:19
Local clock offset: -0.021 ms
Remote clock offset: -0.116 ms

# Below is generated by plot.py at 2019-03-19 08:38:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 277.21 Mbit/s
95th percentile per-packet one-way delay: 133.524 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 277.21 Mbit/s
95th percentile per-packet one-way delay: 133.524 ms
Loss rate: 0.99%
```

Run 5: Report of TCP Vegas — Data Link

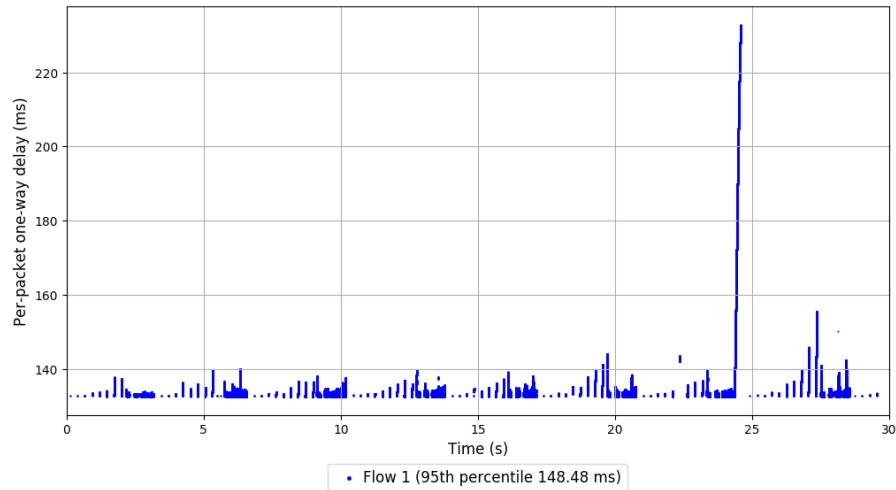
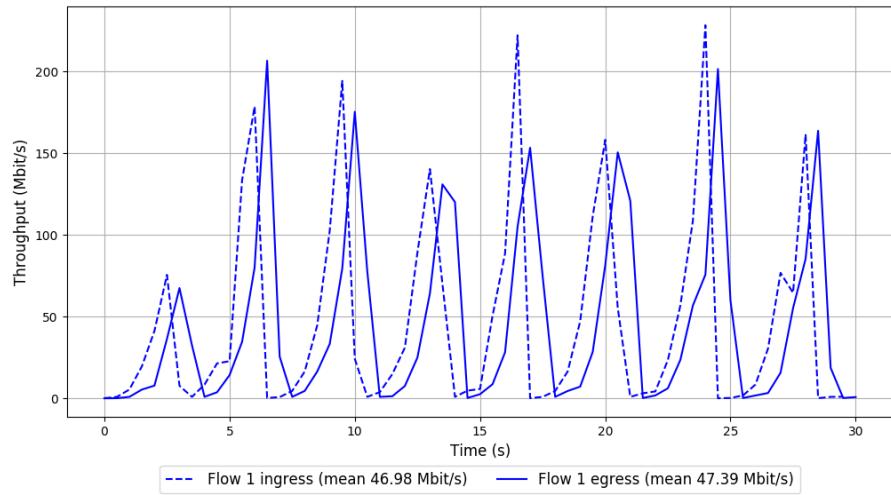


Run 1: Statistics of Verus

```
Start at: 2019-03-19 04:15:51
End at: 2019-03-19 04:16:21
Local clock offset: -0.338 ms
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2019-03-19 08:38:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.39 Mbit/s
95th percentile per-packet one-way delay: 148.480 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 47.39 Mbit/s
95th percentile per-packet one-way delay: 148.480 ms
Loss rate: 0.04%
```

Run 1: Report of Verus — Data Link

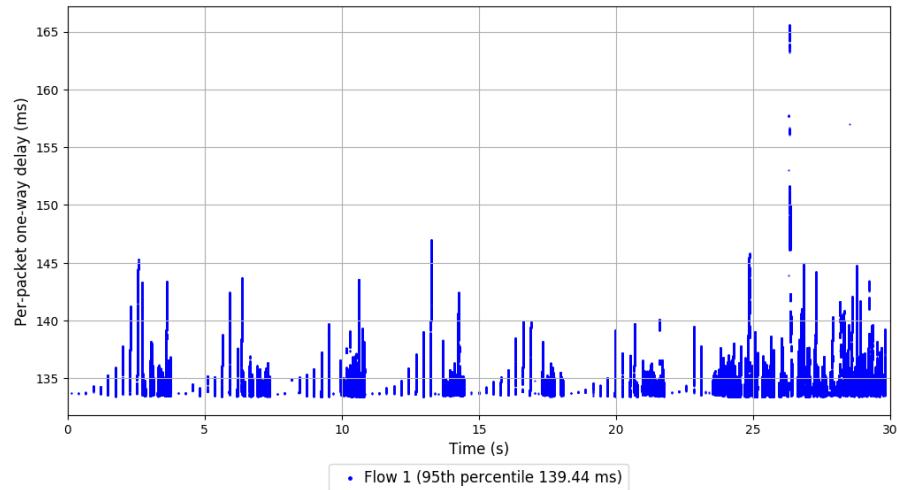
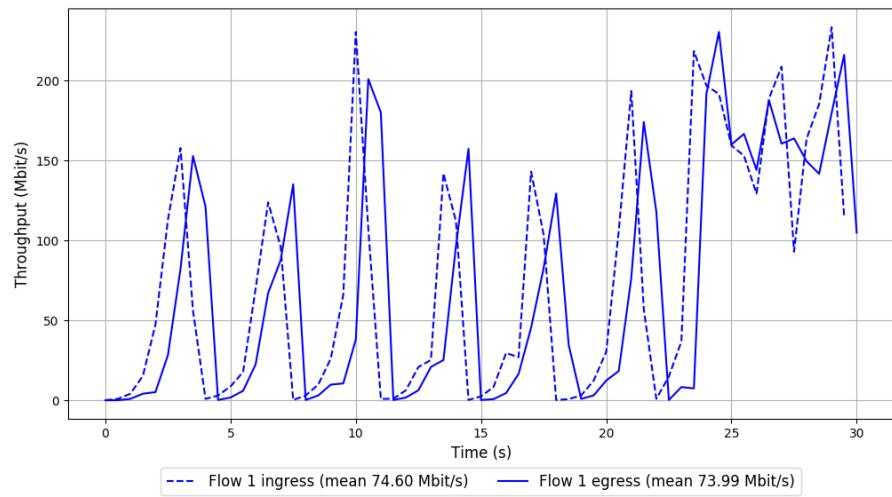


Run 2: Statistics of Verus

```
Start at: 2019-03-19 04:51:38
End at: 2019-03-19 04:52:08
Local clock offset: -0.061 ms
Remote clock offset: -0.461 ms

# Below is generated by plot.py at 2019-03-19 08:38:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.99 Mbit/s
95th percentile per-packet one-way delay: 139.445 ms
Loss rate: 1.70%
-- Flow 1:
Average throughput: 73.99 Mbit/s
95th percentile per-packet one-way delay: 139.445 ms
Loss rate: 1.70%
```

Run 2: Report of Verus — Data Link

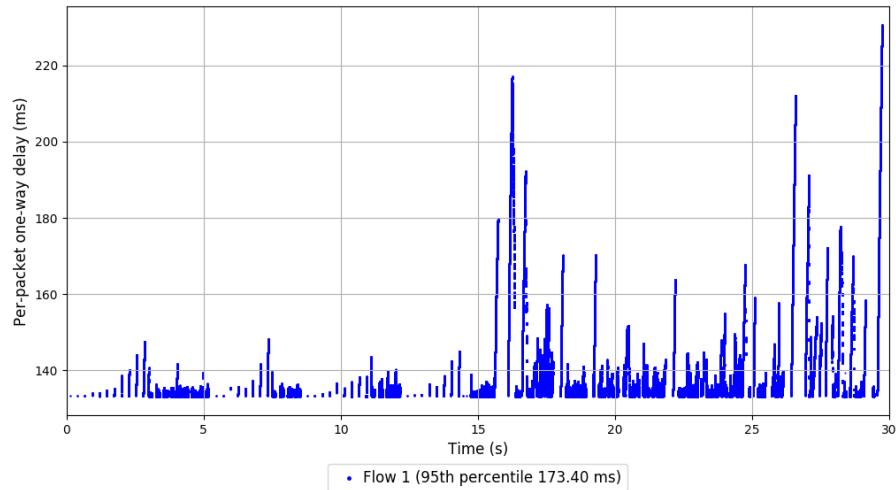
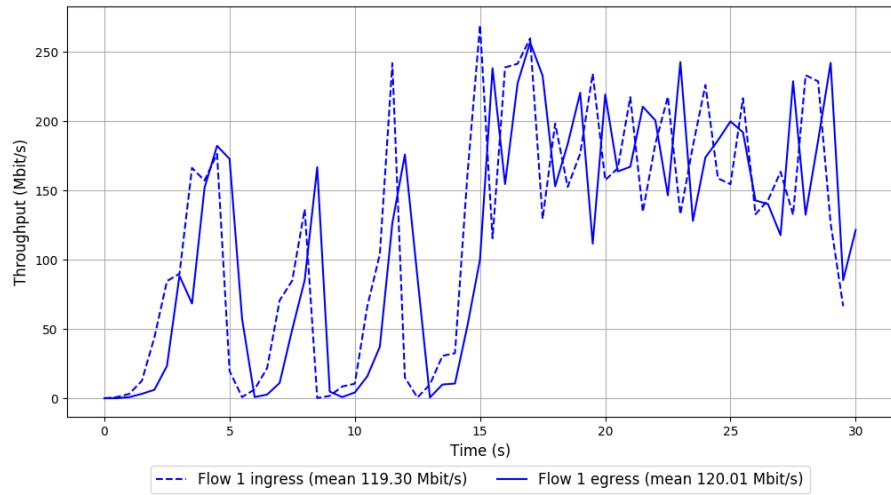


Run 3: Statistics of Verus

```
Start at: 2019-03-19 05:25:41
End at: 2019-03-19 05:26:11
Local clock offset: -0.112 ms
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2019-03-19 08:38:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 120.01 Mbit/s
95th percentile per-packet one-way delay: 173.403 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 120.01 Mbit/s
95th percentile per-packet one-way delay: 173.403 ms
Loss rate: 0.65%
```

Run 3: Report of Verus — Data Link

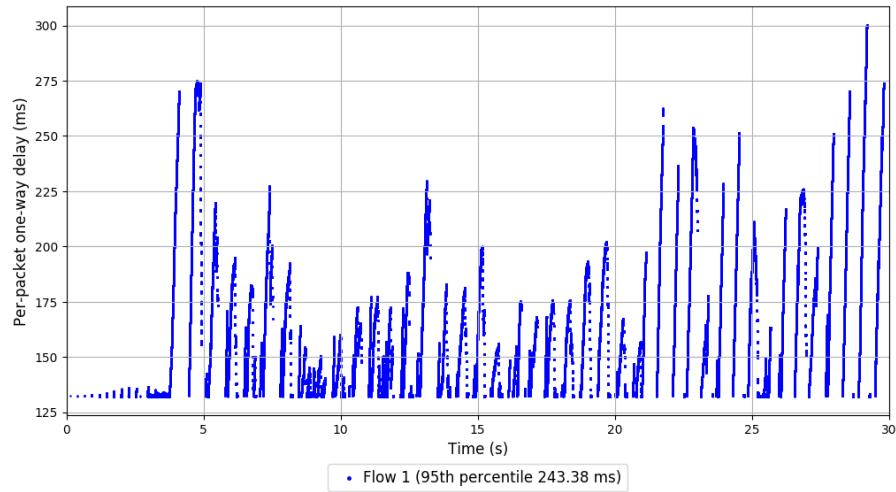
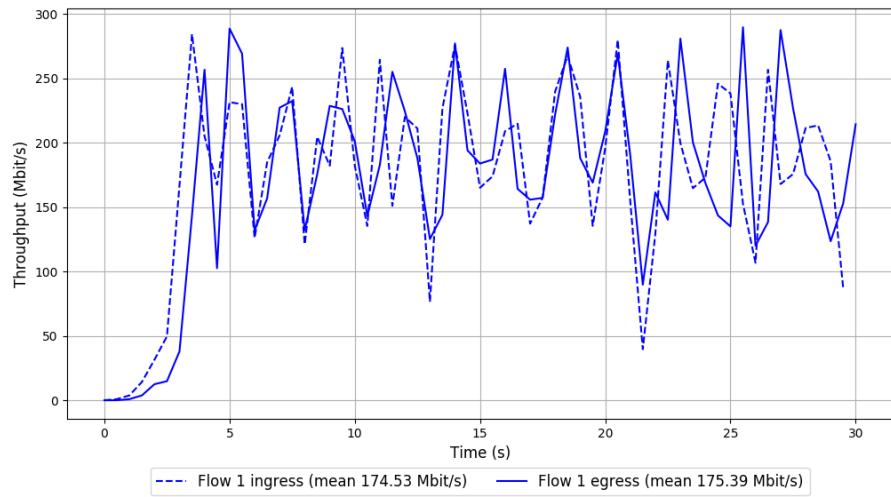


Run 4: Statistics of Verus

```
Start at: 2019-03-19 05:58:58
End at: 2019-03-19 05:59:28
Local clock offset: -0.059 ms
Remote clock offset: -0.106 ms

# Below is generated by plot.py at 2019-03-19 08:39:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 175.39 Mbit/s
95th percentile per-packet one-way delay: 243.380 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 175.39 Mbit/s
95th percentile per-packet one-way delay: 243.380 ms
Loss rate: 0.54%
```

Run 4: Report of Verus — Data Link

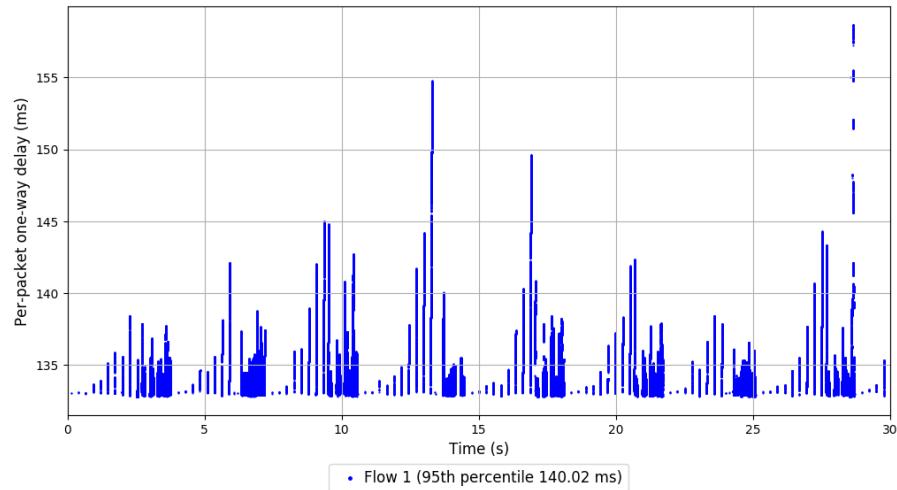
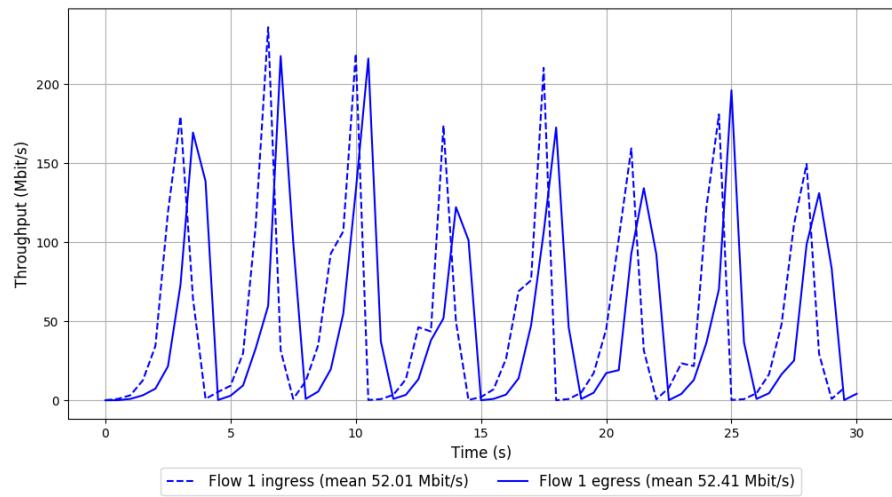


Run 5: Statistics of Verus

```
Start at: 2019-03-19 06:33:26
End at: 2019-03-19 06:33:56
Local clock offset: 0.379 ms
Remote clock offset: -0.126 ms

# Below is generated by plot.py at 2019-03-19 08:39:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.41 Mbit/s
95th percentile per-packet one-way delay: 140.016 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 52.41 Mbit/s
95th percentile per-packet one-way delay: 140.016 ms
Loss rate: 0.14%
```

Run 5: Report of Verus — Data Link

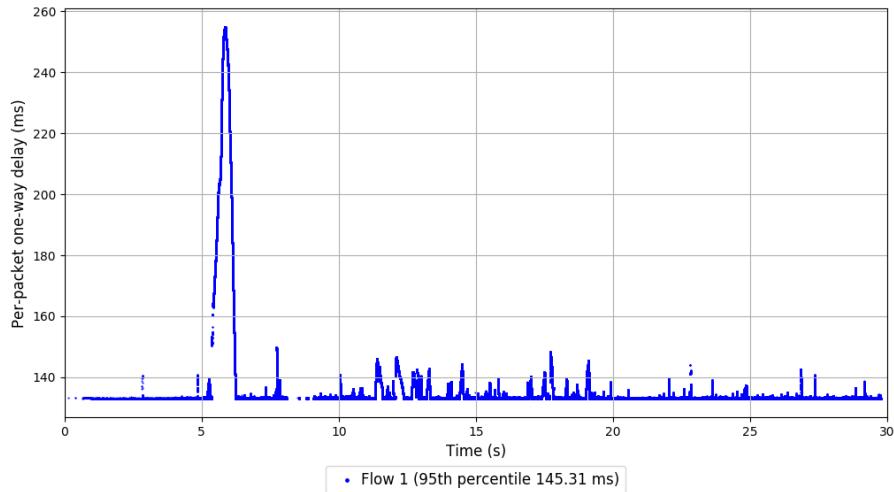
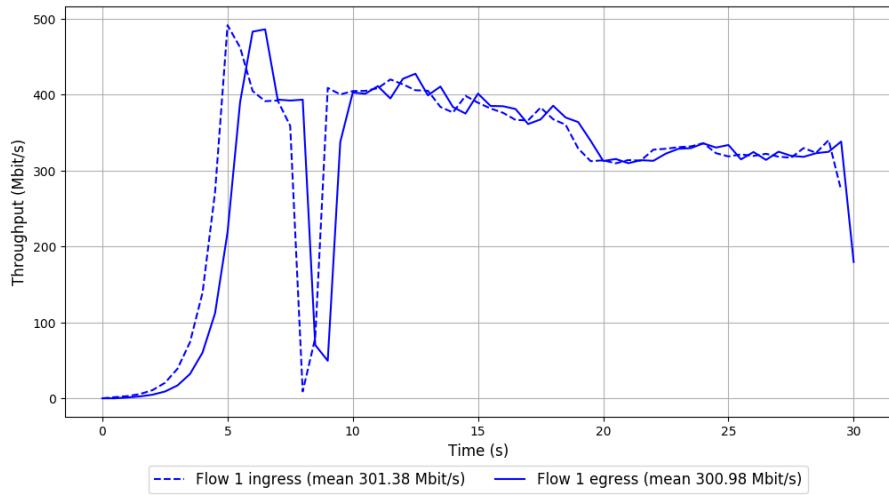


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-03-19 04:48:36
End at: 2019-03-19 04:49:06
Local clock offset: -0.084 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2019-03-19 08:39:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 300.98 Mbit/s
95th percentile per-packet one-way delay: 145.306 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 300.98 Mbit/s
95th percentile per-packet one-way delay: 145.306 ms
Loss rate: 1.02%
```

Run 1: Report of PCC-Vivace — Data Link

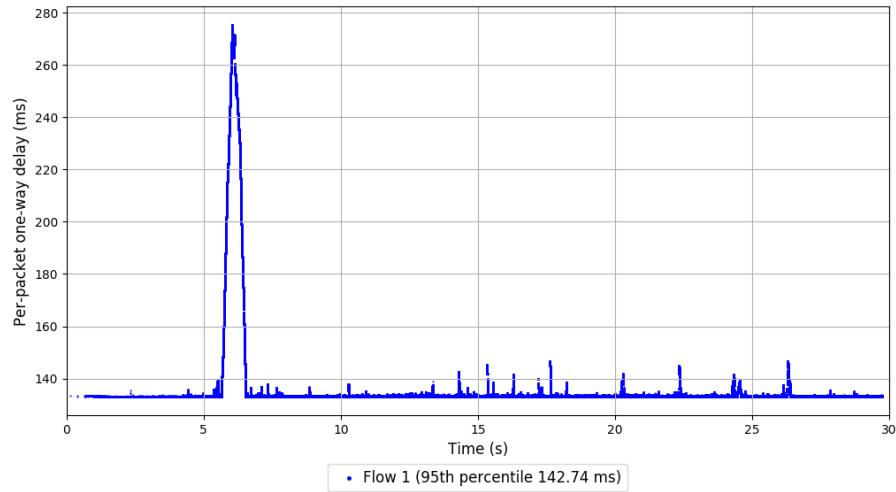
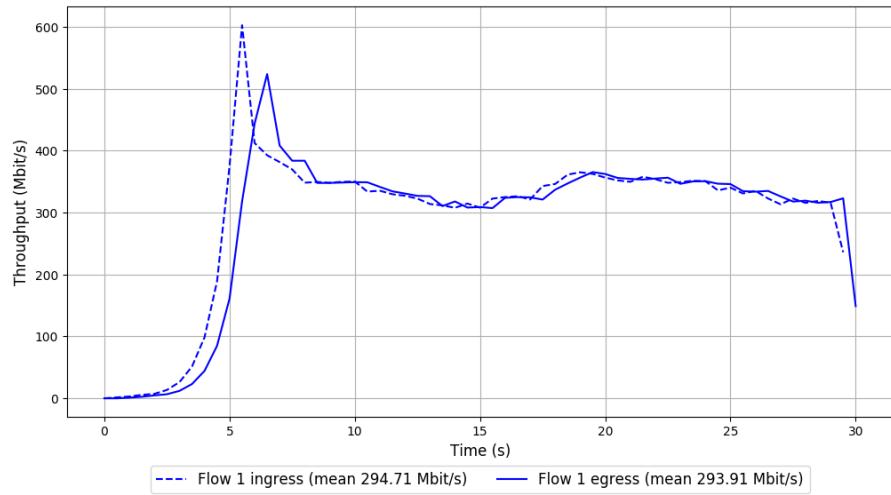


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-03-19 05:22:56
End at: 2019-03-19 05:23:26
Local clock offset: 0.01 ms
Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2019-03-19 08:39:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 293.91 Mbit/s
95th percentile per-packet one-way delay: 142.736 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 293.91 Mbit/s
95th percentile per-packet one-way delay: 142.736 ms
Loss rate: 1.16%
```

Run 2: Report of PCC-Vivace — Data Link

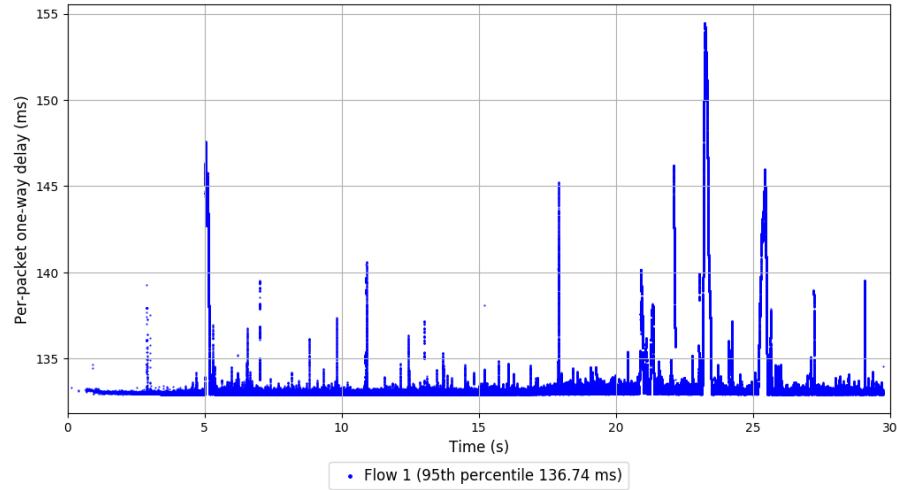
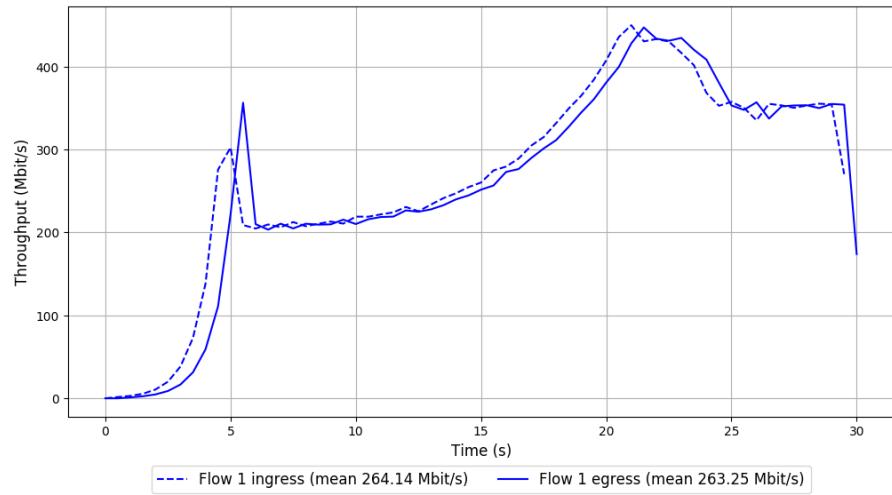


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-03-19 05:56:05
End at: 2019-03-19 05:56:35
Local clock offset: -0.092 ms
Remote clock offset: -0.106 ms

# Below is generated by plot.py at 2019-03-19 08:39:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 263.25 Mbit/s
95th percentile per-packet one-way delay: 136.742 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 263.25 Mbit/s
95th percentile per-packet one-way delay: 136.742 ms
Loss rate: 1.22%
```

Run 3: Report of PCC-Vivace — Data Link

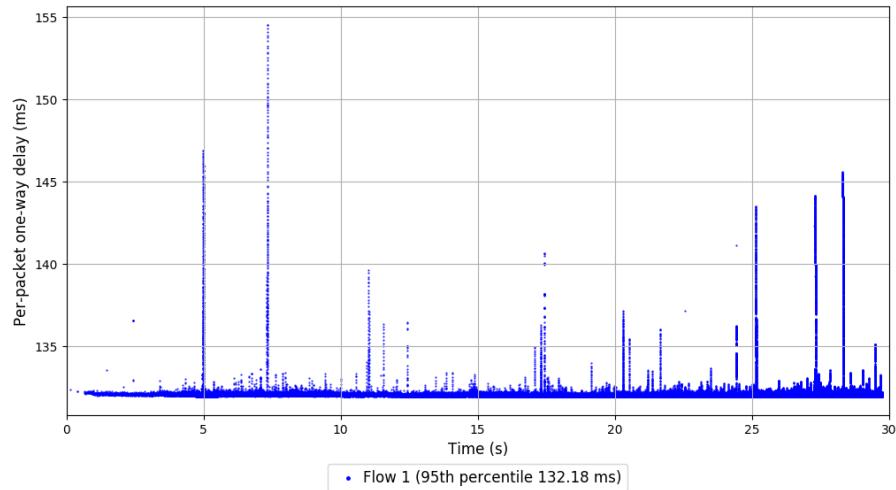
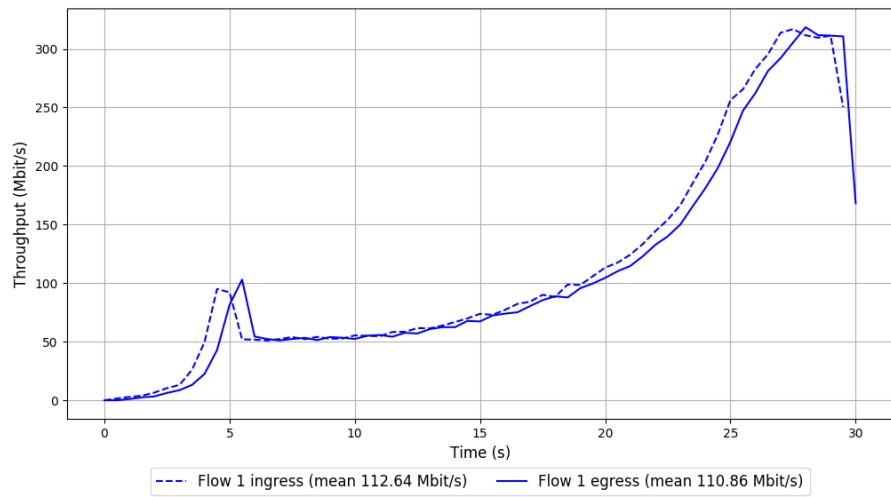


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-03-19 06:30:46
End at: 2019-03-19 06:31:16
Local clock offset: -0.43 ms
Remote clock offset: -0.131 ms

# Below is generated by plot.py at 2019-03-19 08:39:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 110.86 Mbit/s
95th percentile per-packet one-way delay: 132.183 ms
Loss rate: 2.46%
-- Flow 1:
Average throughput: 110.86 Mbit/s
95th percentile per-packet one-way delay: 132.183 ms
Loss rate: 2.46%
```

Run 4: Report of PCC-Vivace — Data Link

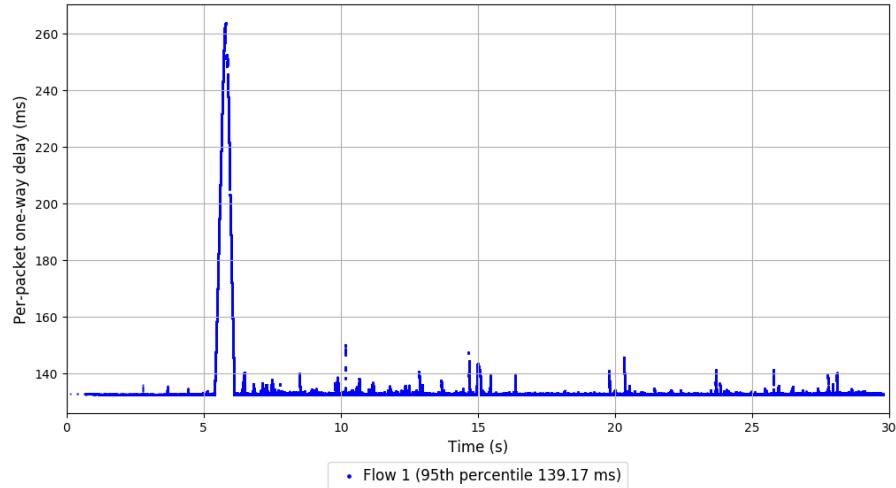
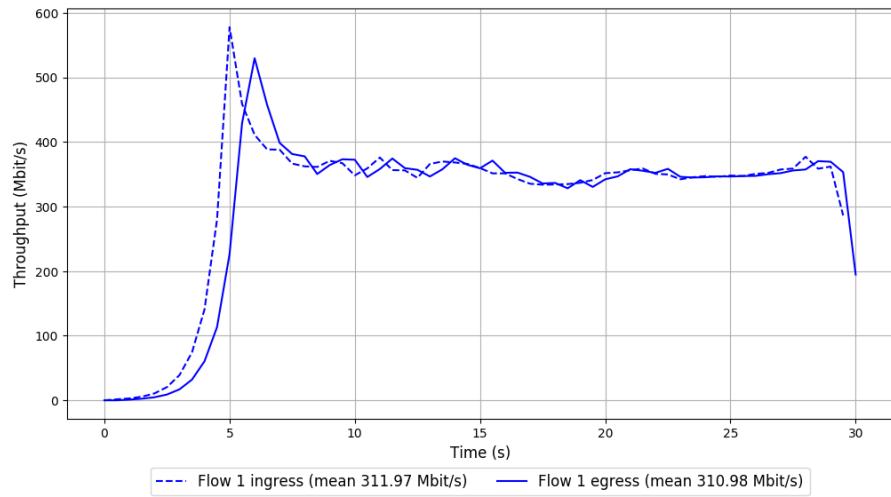


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-03-19 07:04:33
End at: 2019-03-19 07:05:03
Local clock offset: -0.316 ms
Remote clock offset: -0.106 ms

# Below is generated by plot.py at 2019-03-19 08:39:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 310.98 Mbit/s
95th percentile per-packet one-way delay: 139.169 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 310.98 Mbit/s
95th percentile per-packet one-way delay: 139.169 ms
Loss rate: 1.21%
```

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

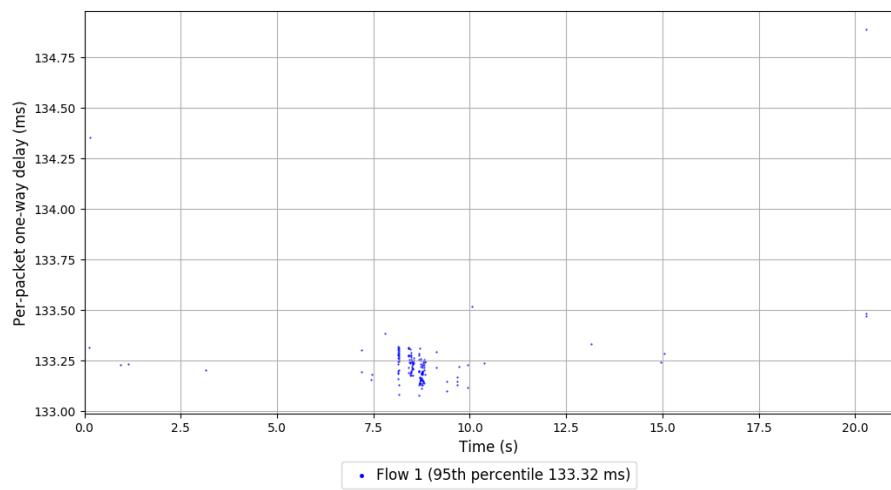
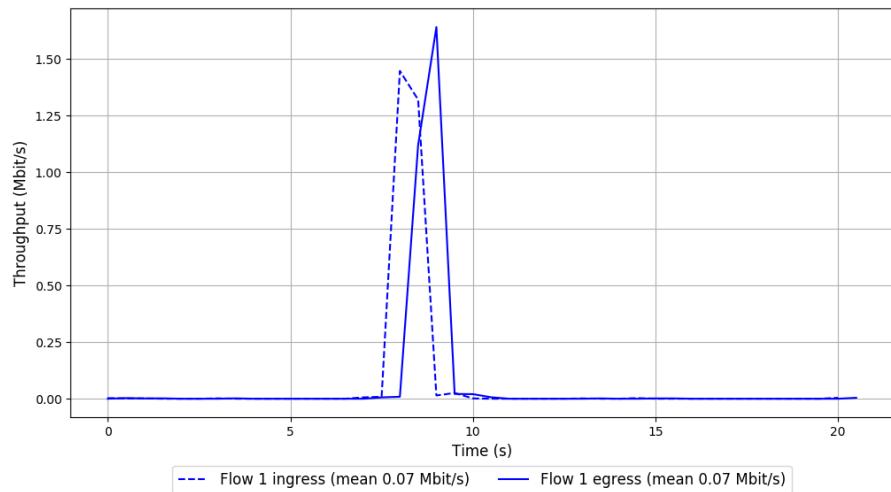
Start at: 2019-03-19 04:25:50

End at: 2019-03-19 04:26:20

Local clock offset: -0.127 ms

Remote clock offset: -0.026 ms

Run 1: Report of WebRTC media — Data Link

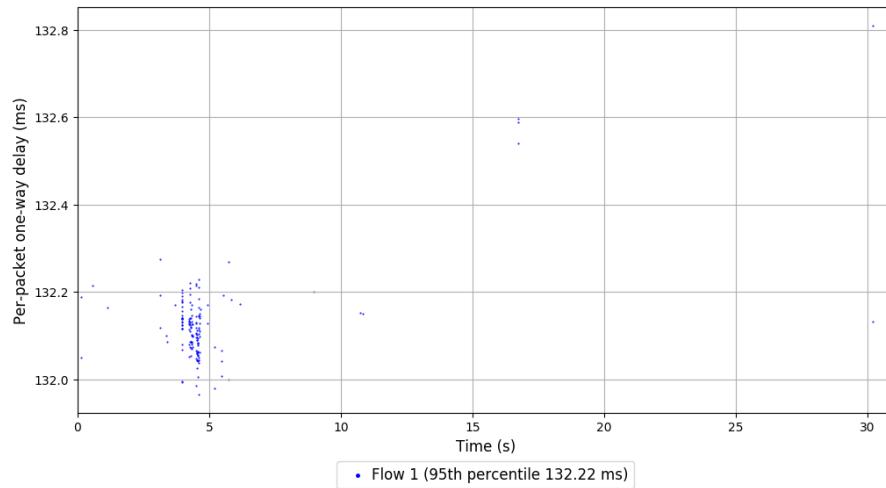
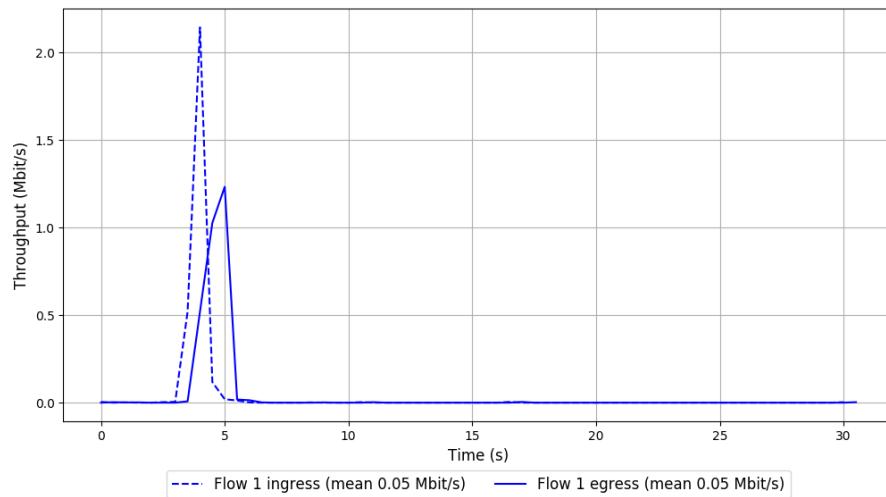


Run 2: Statistics of WebRTC media

```
Start at: 2019-03-19 05:01:01
End at: 2019-03-19 05:01:31
Local clock offset: -0.053 ms
Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2019-03-19 08:39:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 132.219 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 132.219 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

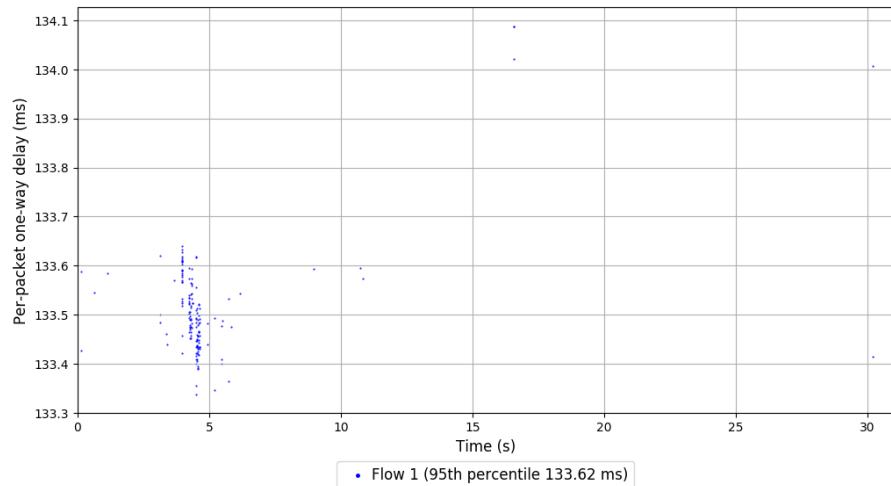
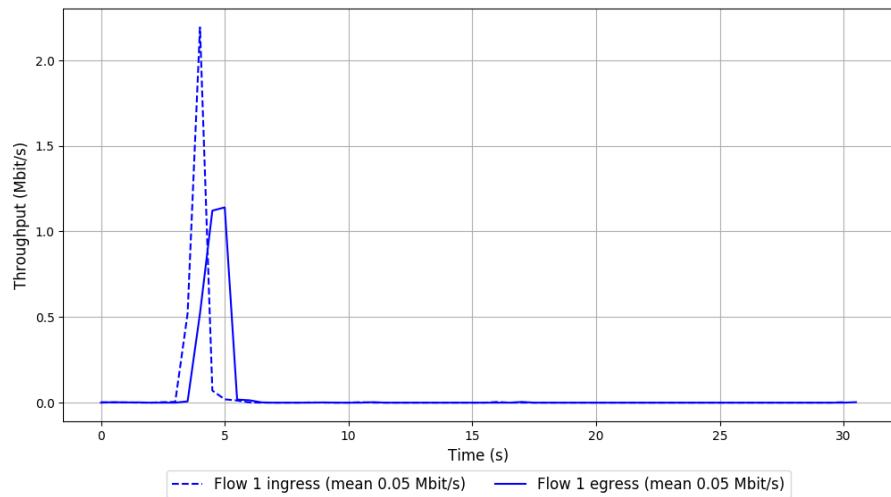


```
Run 3: Statistics of WebRTC media

Start at: 2019-03-19 05:34:46
End at: 2019-03-19 05:35:16
Local clock offset: -0.084 ms
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2019-03-19 08:39:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.619 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.619 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

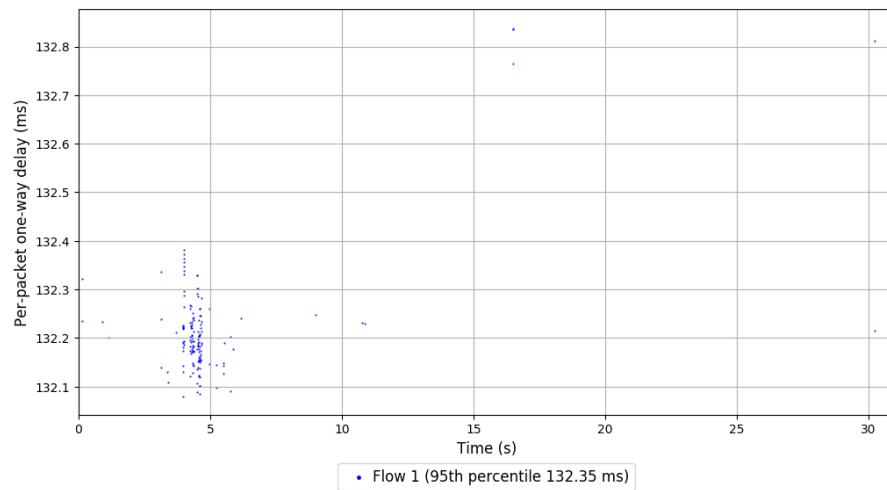
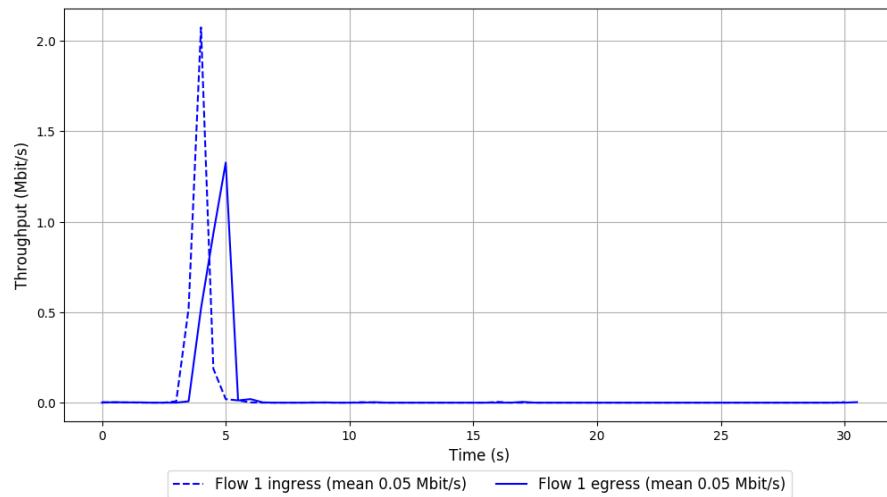


Run 4: Statistics of WebRTC media

```
Start at: 2019-03-19 06:09:12
End at: 2019-03-19 06:09:42
Local clock offset: -0.413 ms
Remote clock offset: -0.108 ms

# Below is generated by plot.py at 2019-03-19 08:39:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 132.347 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 132.347 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-03-19 06:43:23
End at: 2019-03-19 06:43:53
Local clock offset: -0.471 ms
Remote clock offset: -0.141 ms

# Below is generated by plot.py at 2019-03-19 08:39:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 132.277 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 132.277 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

