

Pantheon Report

Generated at 2019-02-11 15:56:28 (UTC).
Data path: GCE Sydney on `ens4 (local)` → GCE Iowa on `ens4 (remote)`.
Repeated the test of 21 congestion control schemes 5 times.
Each test lasted for 30 seconds running 1 flow.
NTP offsets were measured against `time.google.com` and have been applied to correct the timestamps in logs.

System info:

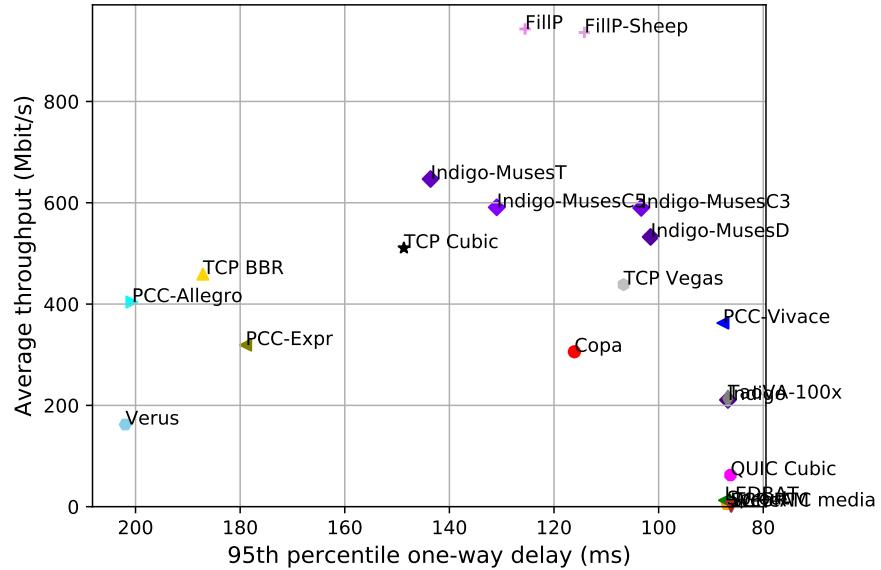
```
Linux 4.15.0-1026-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

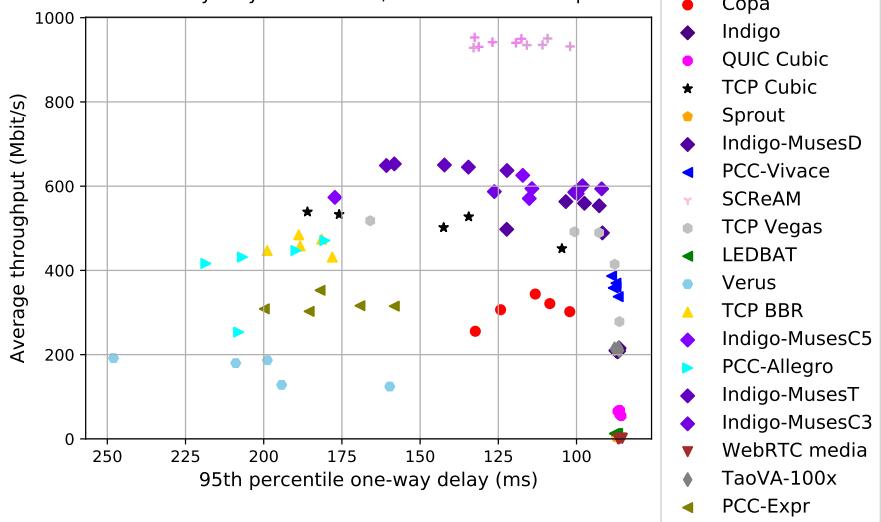
```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
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 Sydney to GCE Iowa, 5 runs of 30s each per scheme
(mean of all runs by scheme)



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



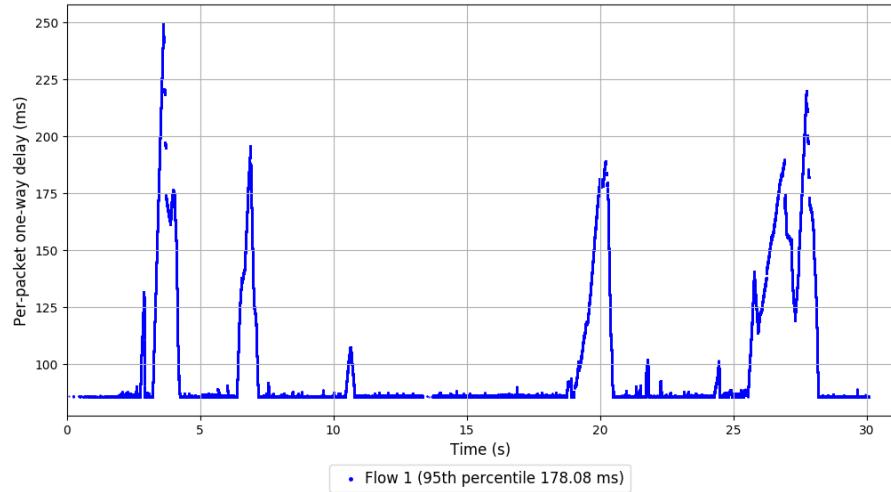
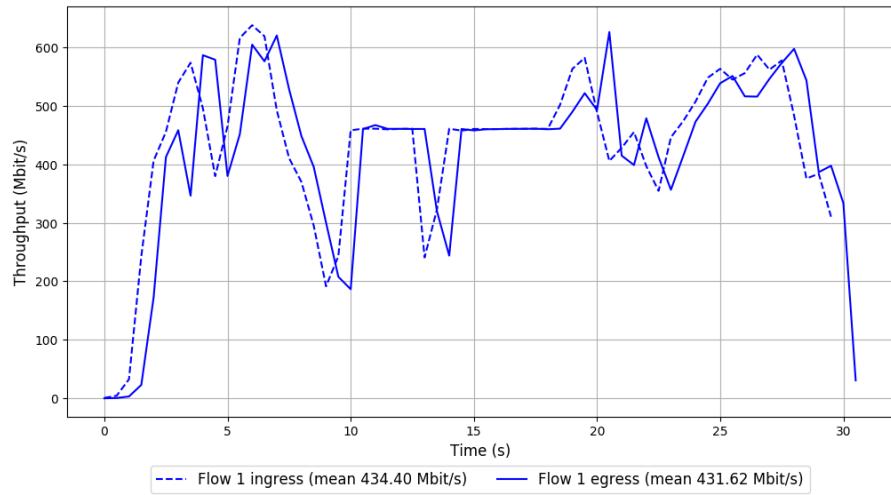
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	459.15	187.12	0.99
Copa	5	305.84	116.11	0.02
TCP Cubic	5	510.58	148.70	0.08
FillP	5	943.18	125.53	0.32
FillP-Sheep	5	936.26	114.19	0.17
Indigo	5	210.76	86.76	0.00
Indigo-MusesC3	5	589.86	103.33	0.00
Indigo-MusesC5	4	591.01	130.95	0.07
Indigo-MusesD	5	532.55	101.53	0.00
Indigo-MusesT	5	646.92	143.61	0.04
LEDBAT	5	12.56	87.41	0.00
PCC-Allegro	5	403.92	200.69	3.75
PCC-Expr	5	319.09	178.96	1.46
QUIC Cubic	5	62.44	86.27	0.00
SCReAM	5	0.22	86.32	0.00
Sprout	5	4.29	86.94	0.00
TaoVA-100x	5	213.52	86.77	0.00
TCP Vegas	5	438.45	106.70	0.00
Verus	5	162.18	201.95	3.34
PCC-Vivace	5	362.58	87.71	0.04
WebRTC media	5	0.69	86.11	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-02-11 10:53:08
End at: 2019-02-11 10:53:38
Local clock offset: 13.898 ms
Remote clock offset: 14.011 ms

# Below is generated by plot.py at 2019-02-11 13:39:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 431.62 Mbit/s
95th percentile per-packet one-way delay: 178.077 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 431.62 Mbit/s
95th percentile per-packet one-way delay: 178.077 ms
Loss rate: 0.64%
```

Run 1: Report of TCP BBR — Data Link

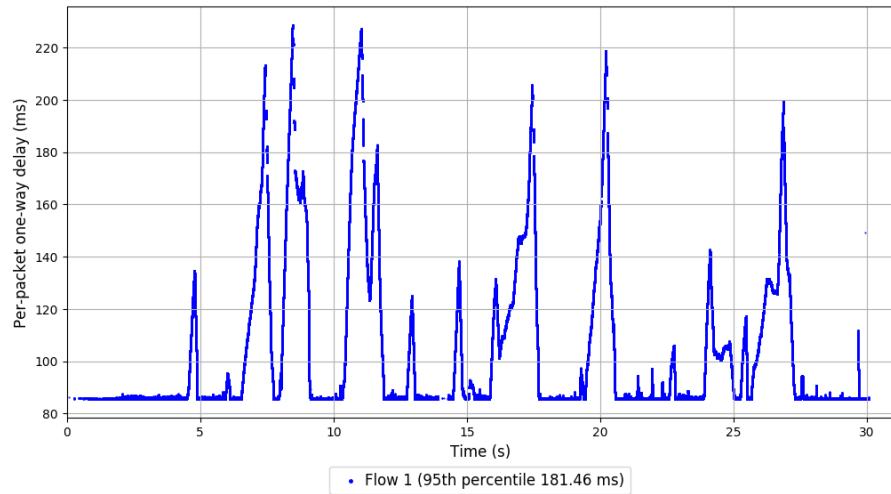
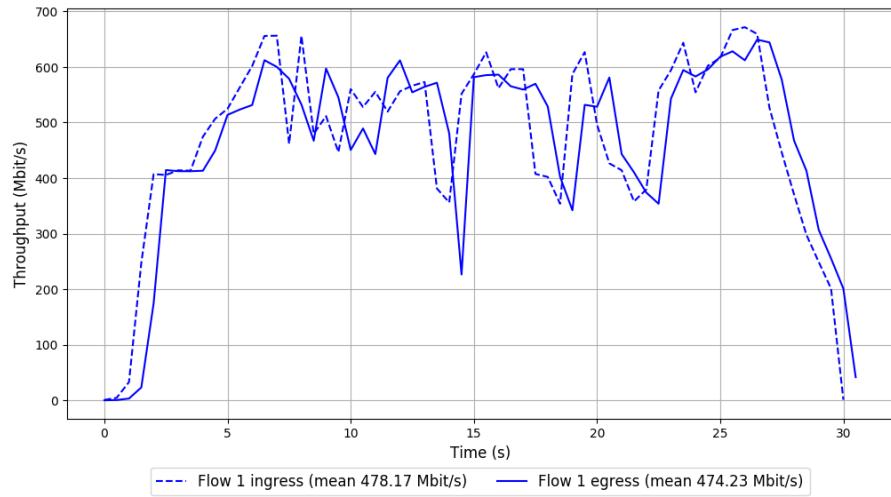


Run 2: Statistics of TCP BBR

```
Start at: 2019-02-11 11:25:52
End at: 2019-02-11 11:26:22
Local clock offset: 24.196 ms
Remote clock offset: 24.063 ms

# Below is generated by plot.py at 2019-02-11 13:40:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 474.23 Mbit/s
95th percentile per-packet one-way delay: 181.459 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 474.23 Mbit/s
95th percentile per-packet one-way delay: 181.459 ms
Loss rate: 0.83%
```

Run 2: Report of TCP BBR — Data Link

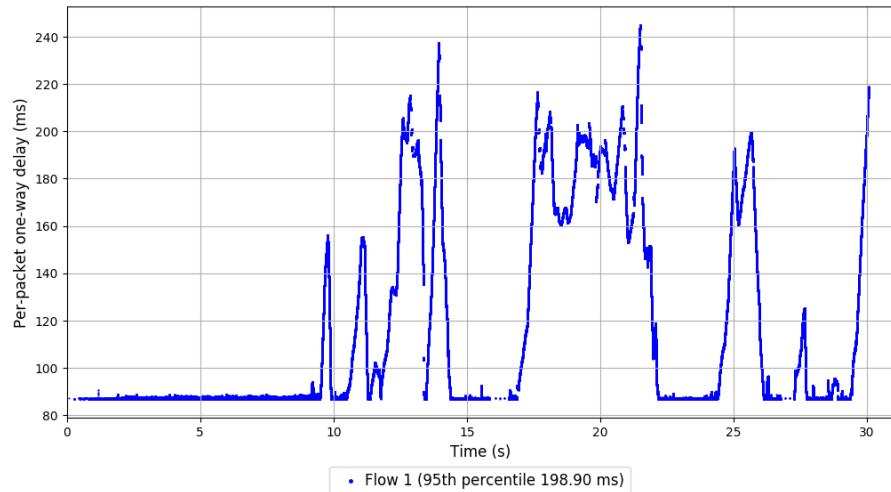
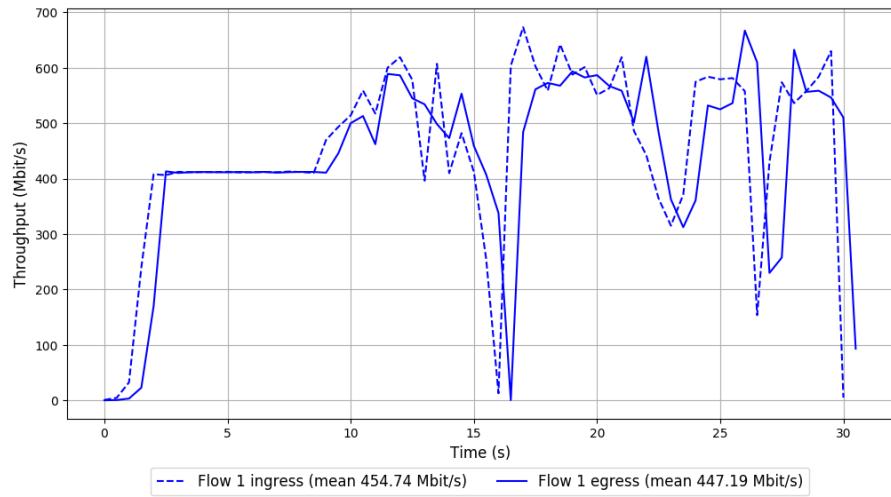


Run 3: Statistics of TCP BBR

```
Start at: 2019-02-11 11:57:50
End at: 2019-02-11 11:58:20
Local clock offset: 14.873 ms
Remote clock offset: 15.344 ms

# Below is generated by plot.py at 2019-02-11 13:40:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 447.19 Mbit/s
95th percentile per-packet one-way delay: 198.898 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 447.19 Mbit/s
95th percentile per-packet one-way delay: 198.898 ms
Loss rate: 1.66%
```

Run 3: Report of TCP BBR — Data Link

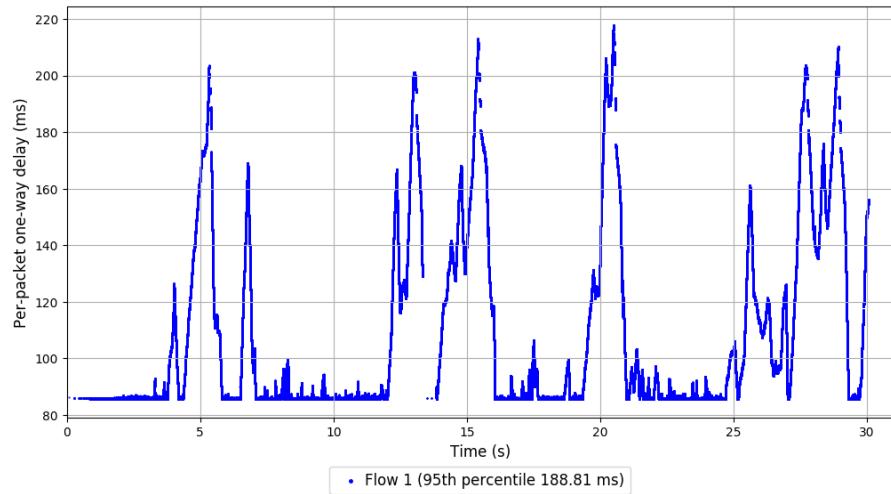
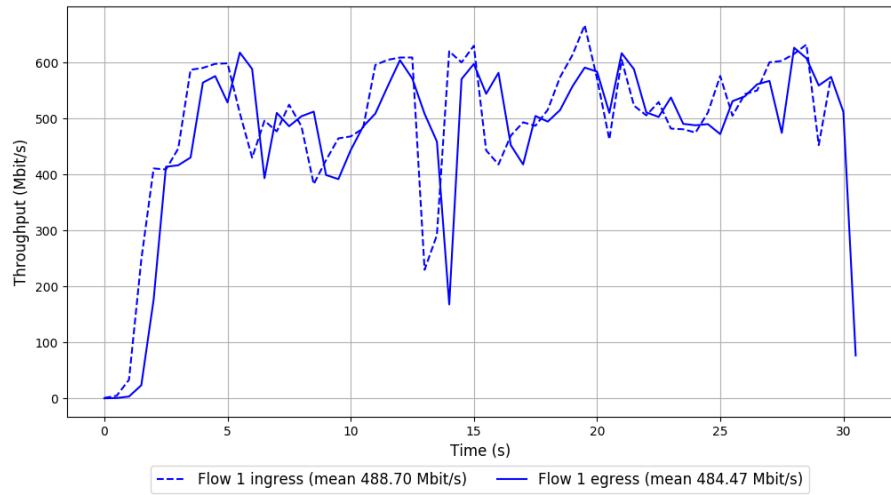


Run 4: Statistics of TCP BBR

```
Start at: 2019-02-11 12:30:26
End at: 2019-02-11 12:30:57
Local clock offset: 5.526 ms
Remote clock offset: 7.646 ms

# Below is generated by plot.py at 2019-02-11 13:40:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 484.47 Mbit/s
95th percentile per-packet one-way delay: 188.806 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 484.47 Mbit/s
95th percentile per-packet one-way delay: 188.806 ms
Loss rate: 0.86%
```

Run 4: Report of TCP BBR — Data Link

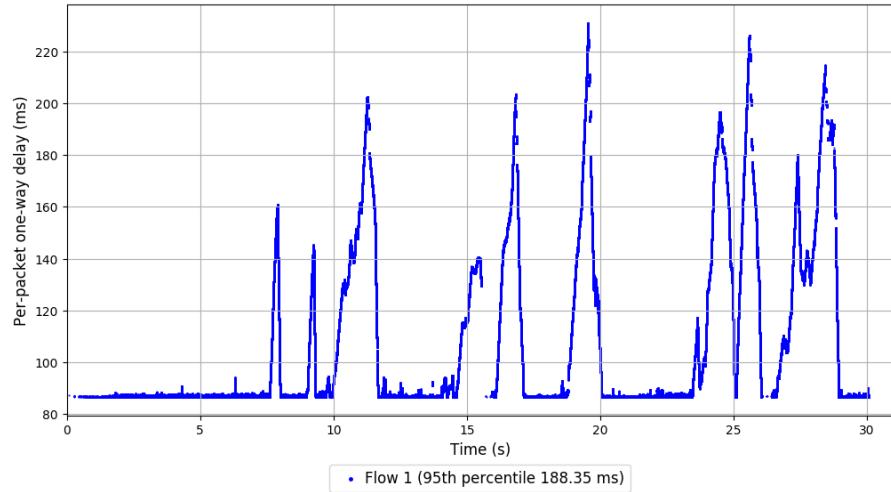
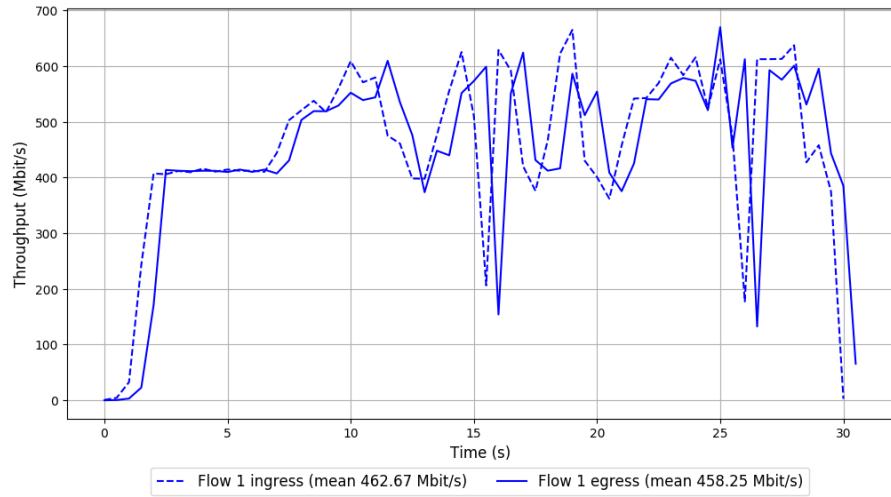


Run 5: Statistics of TCP BBR

```
Start at: 2019-02-11 13:03:11
End at: 2019-02-11 13:03:41
Local clock offset: 1.217 ms
Remote clock offset: 2.88 ms

# Below is generated by plot.py at 2019-02-11 13:40:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 458.25 Mbit/s
95th percentile per-packet one-way delay: 188.352 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 458.25 Mbit/s
95th percentile per-packet one-way delay: 188.352 ms
Loss rate: 0.96%
```

Run 5: Report of TCP BBR — Data Link

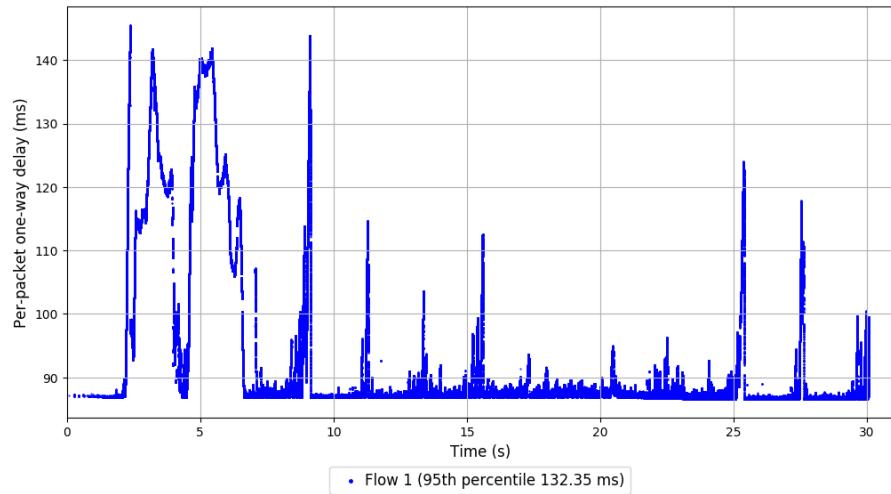
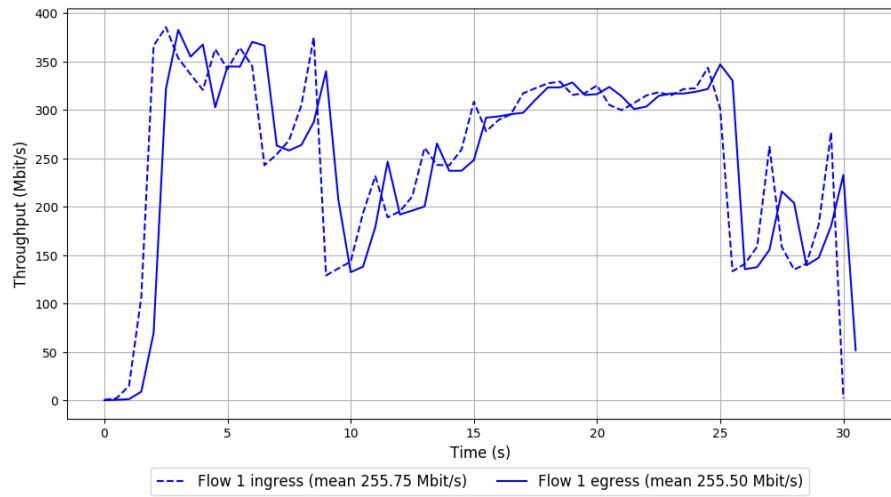


Run 1: Statistics of Copa

```
Start at: 2019-02-11 10:41:42
End at: 2019-02-11 10:42:12
Local clock offset: 9.773 ms
Remote clock offset: 10.678 ms

# Below is generated by plot.py at 2019-02-11 13:40:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 255.50 Mbit/s
95th percentile per-packet one-way delay: 132.353 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 255.50 Mbit/s
95th percentile per-packet one-way delay: 132.353 ms
Loss rate: 0.10%
```

Run 1: Report of Copa — Data Link

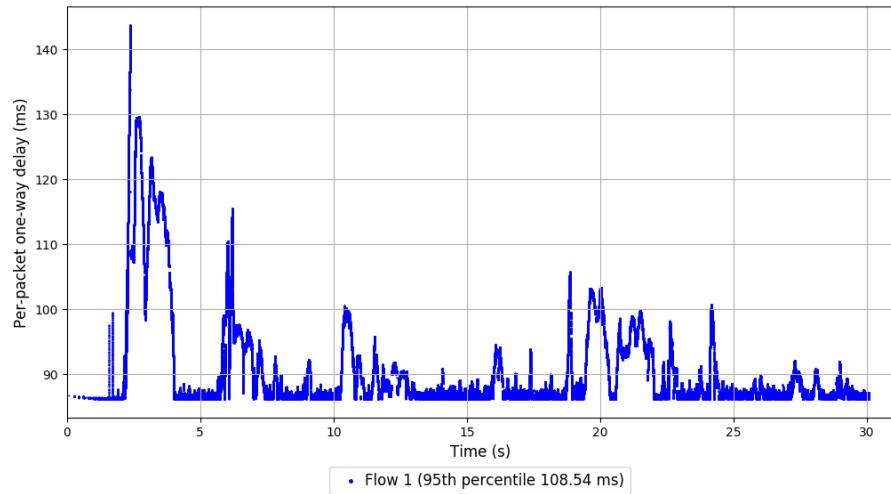
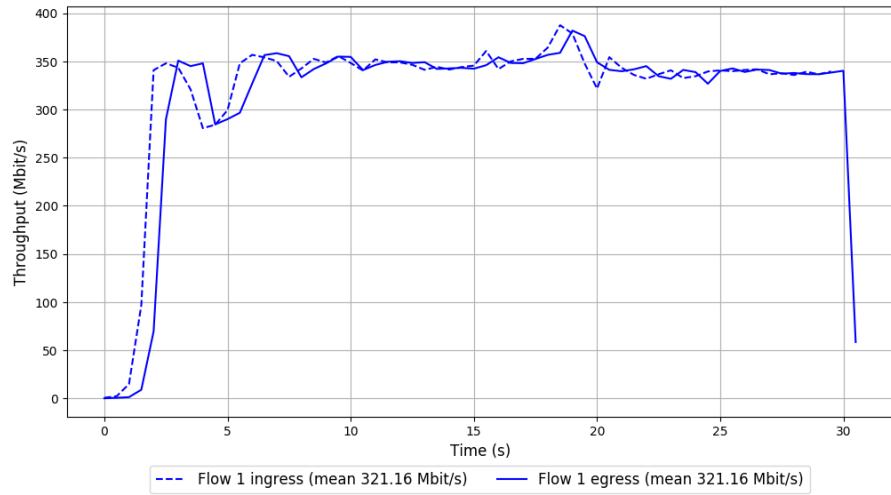


Run 2: Statistics of Copa

```
Start at: 2019-02-11 11:13:49
End at: 2019-02-11 11:14:19
Local clock offset: 19.999 ms
Remote clock offset: 20.256 ms

# Below is generated by plot.py at 2019-02-11 13:42:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 321.16 Mbit/s
95th percentile per-packet one-way delay: 108.537 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 321.16 Mbit/s
95th percentile per-packet one-way delay: 108.537 ms
Loss rate: 0.00%
```

Run 2: Report of Copa — Data Link

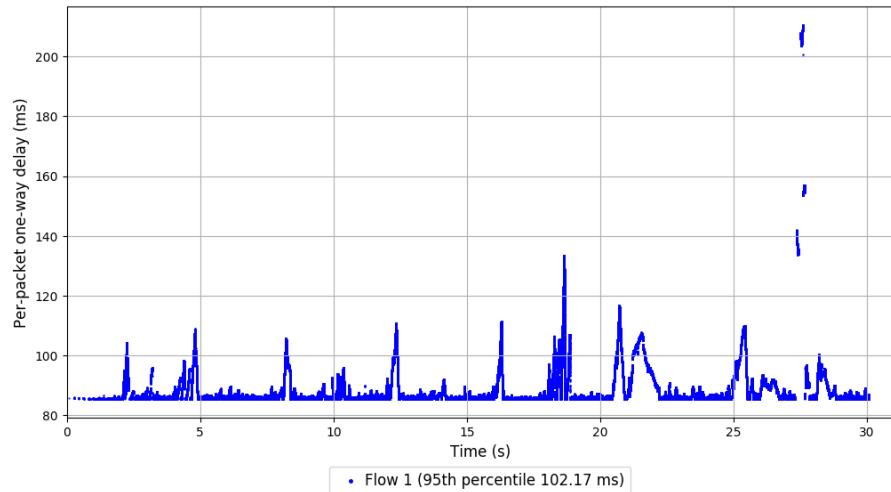
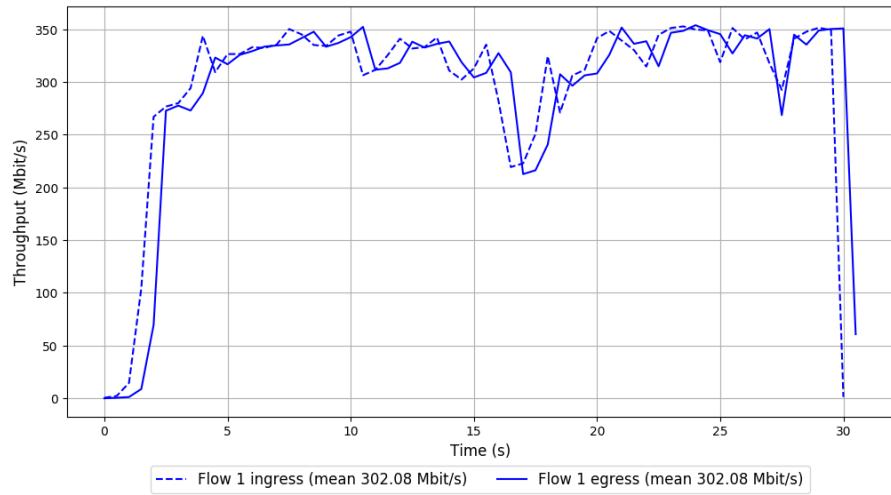


Run 3: Statistics of Copa

```
Start at: 2019-02-11 11:46:23
End at: 2019-02-11 11:46:53
Local clock offset: 26.624 ms
Remote clock offset: 26.649 ms

# Below is generated by plot.py at 2019-02-11 13:42:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 302.08 Mbit/s
95th percentile per-packet one-way delay: 102.167 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 302.08 Mbit/s
95th percentile per-packet one-way delay: 102.167 ms
Loss rate: 0.00%
```

Run 3: Report of Copa — Data Link

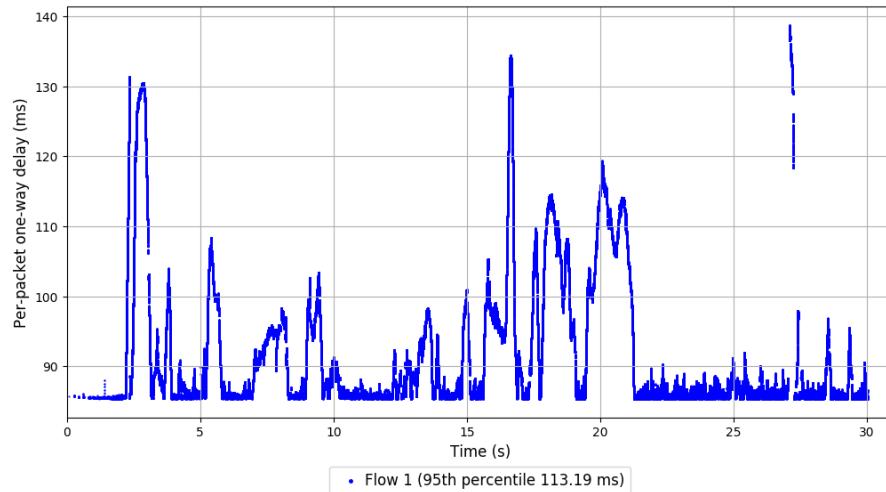
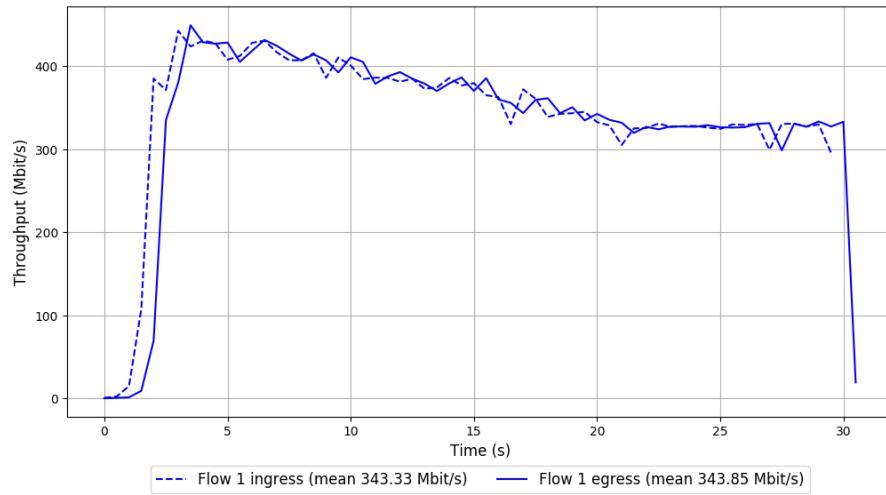


Run 4: Statistics of Copa

```
Start at: 2019-02-11 12:18:29
End at: 2019-02-11 12:18:59
Local clock offset: 15.656 ms
Remote clock offset: 15.921 ms

# Below is generated by plot.py at 2019-02-11 13:54:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 343.85 Mbit/s
95th percentile per-packet one-way delay: 113.192 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 343.85 Mbit/s
95th percentile per-packet one-way delay: 113.192 ms
Loss rate: 0.00%
```

Run 4: Report of Copa — Data Link

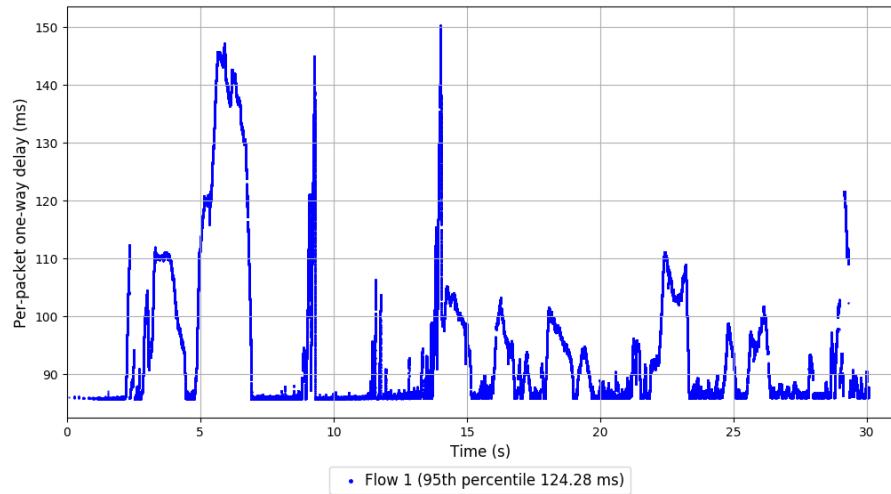
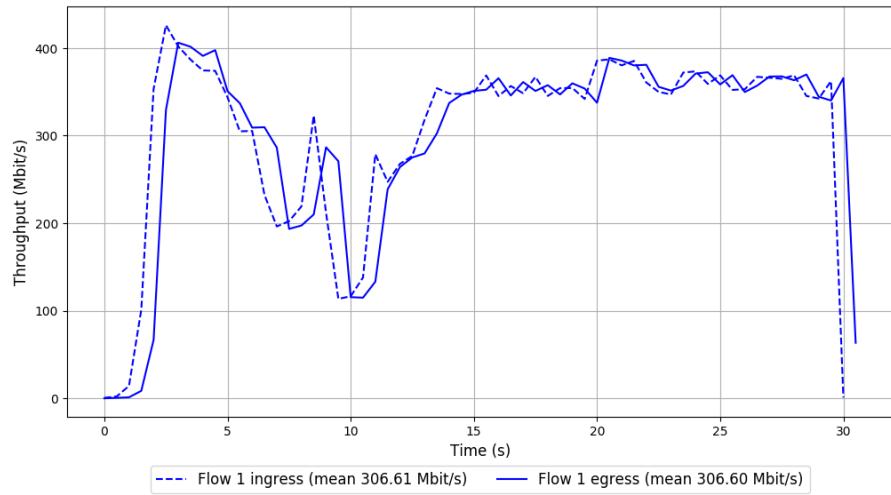


Run 5: Statistics of Copa

```
Start at: 2019-02-11 12:51:28
End at: 2019-02-11 12:51:58
Local clock offset: 4.164 ms
Remote clock offset: 8.381 ms

# Below is generated by plot.py at 2019-02-11 13:54:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 306.60 Mbit/s
95th percentile per-packet one-way delay: 124.278 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 306.60 Mbit/s
95th percentile per-packet one-way delay: 124.278 ms
Loss rate: 0.00%
```

Run 5: Report of Copa — Data Link

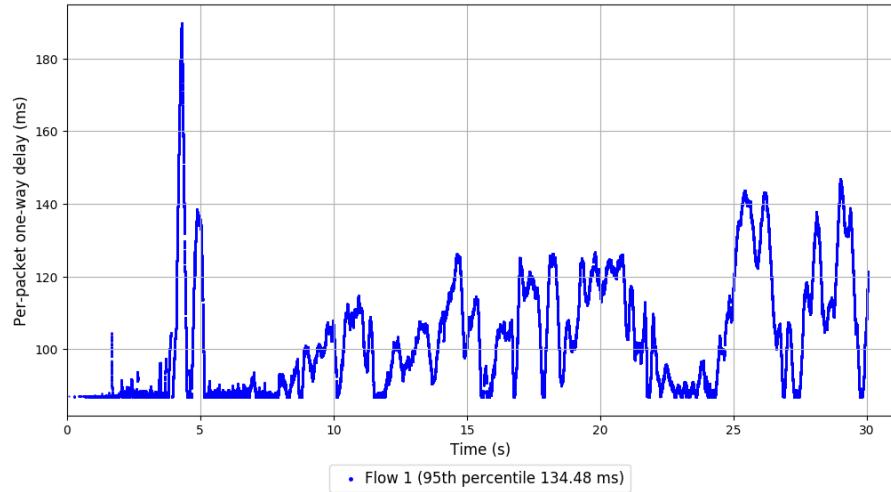
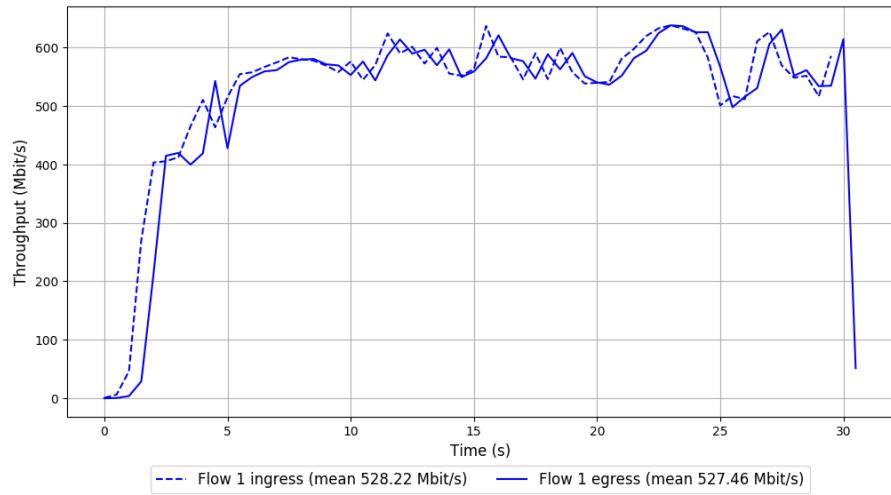


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-02-11 10:37:02
End at: 2019-02-11 10:37:32
Local clock offset: 4.175 ms
Remote clock offset: 4.764 ms

# Below is generated by plot.py at 2019-02-11 13:54:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 527.46 Mbit/s
95th percentile per-packet one-way delay: 134.476 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 527.46 Mbit/s
95th percentile per-packet one-way delay: 134.476 ms
Loss rate: 0.14%
```

Run 1: Report of TCP Cubic — Data Link

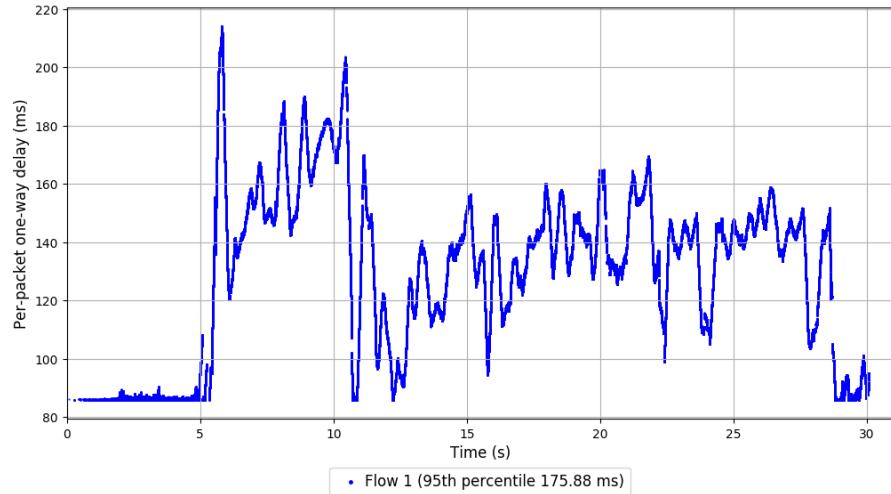
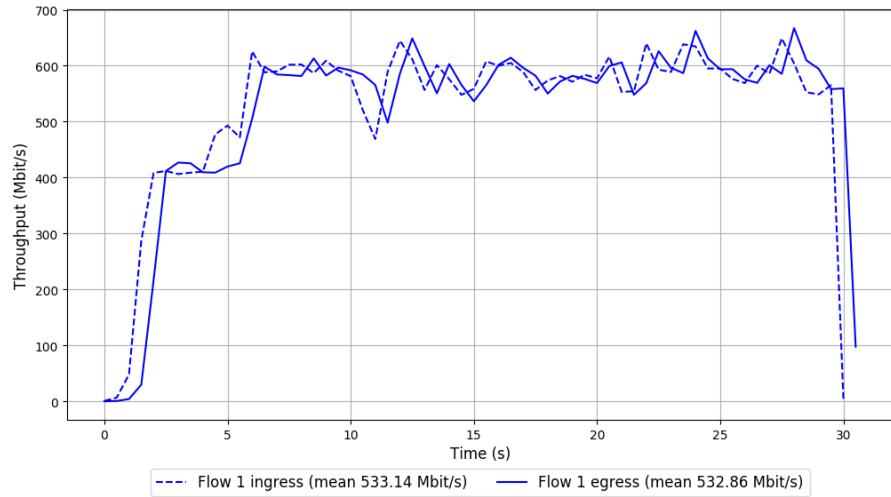


Run 2: Statistics of TCP Cubic

```
Start at: 2019-02-11 11:08:44
End at: 2019-02-11 11:09:14
Local clock offset: 24.855 ms
Remote clock offset: 25.333 ms

# Below is generated by plot.py at 2019-02-11 13:54:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 532.86 Mbit/s
95th percentile per-packet one-way delay: 175.877 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 532.86 Mbit/s
95th percentile per-packet one-way delay: 175.877 ms
Loss rate: 0.05%
```

Run 2: Report of TCP Cubic — Data Link

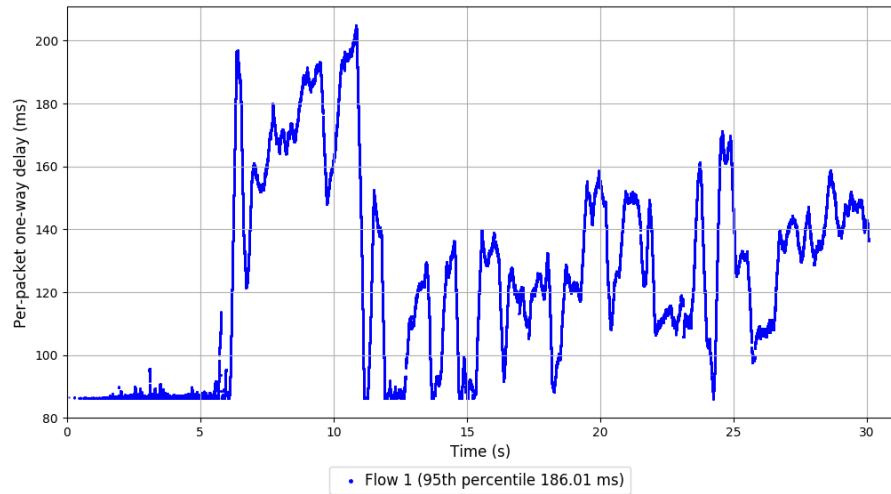
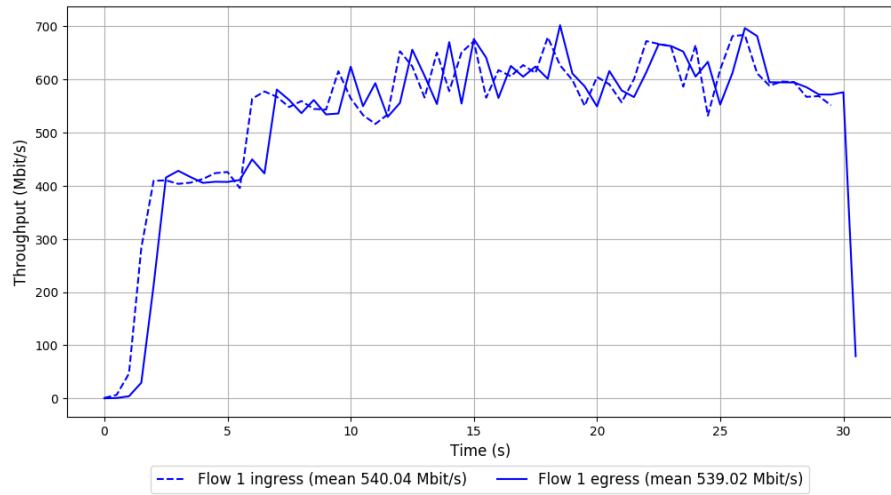


Run 3: Statistics of TCP Cubic

```
Start at: 2019-02-11 11:41:28
End at: 2019-02-11 11:41:58
Local clock offset: 39.256 ms
Remote clock offset: 39.513 ms

# Below is generated by plot.py at 2019-02-11 13:54:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 539.02 Mbit/s
95th percentile per-packet one-way delay: 186.015 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 539.02 Mbit/s
95th percentile per-packet one-way delay: 186.015 ms
Loss rate: 0.19%
```

Run 3: Report of TCP Cubic — Data Link

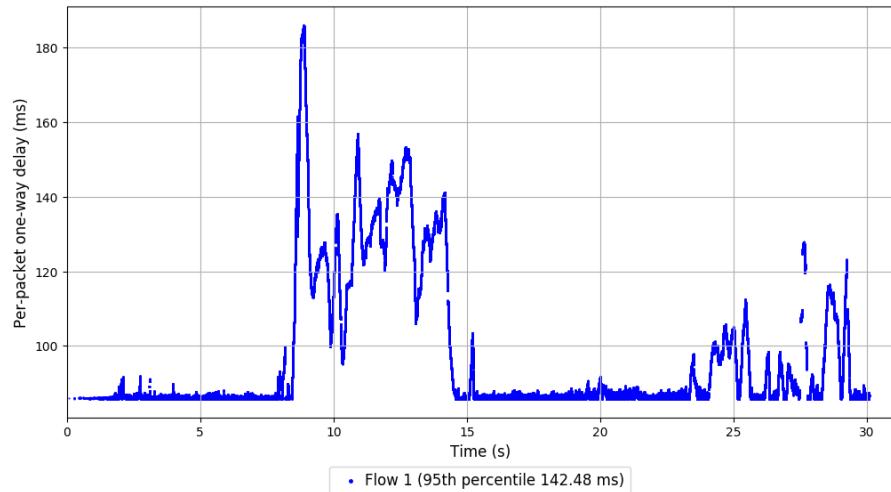
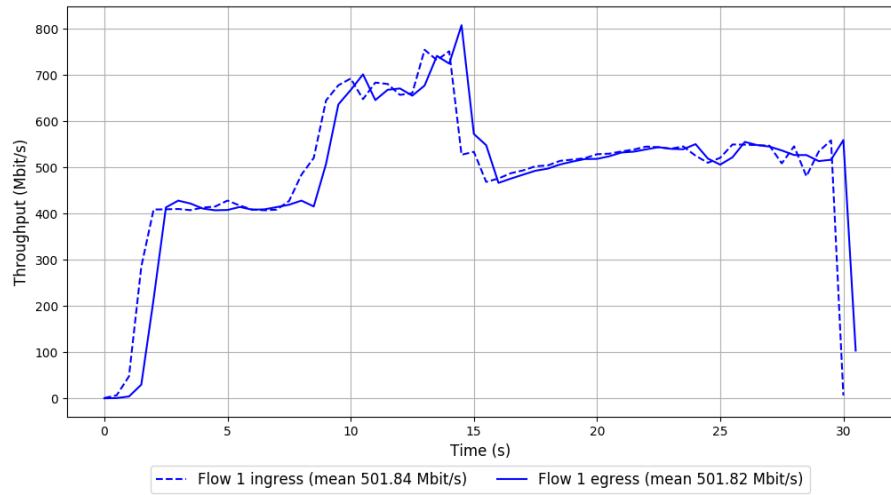


Run 4: Statistics of TCP Cubic

```
Start at: 2019-02-11 12:13:19
End at: 2019-02-11 12:13:49
Local clock offset: 18.864 ms
Remote clock offset: 19.049 ms

# Below is generated by plot.py at 2019-02-11 13:54:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 501.82 Mbit/s
95th percentile per-packet one-way delay: 142.483 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 501.82 Mbit/s
95th percentile per-packet one-way delay: 142.483 ms
Loss rate: 0.00%
```

Run 4: Report of TCP Cubic — Data Link

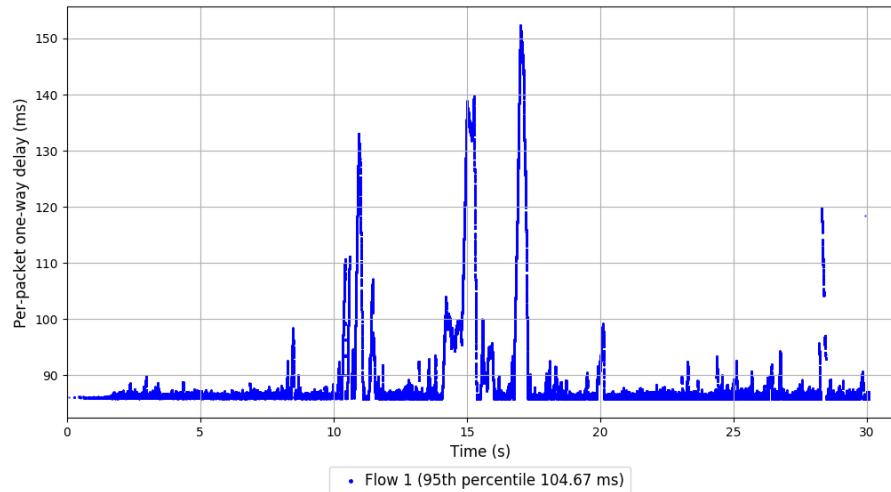
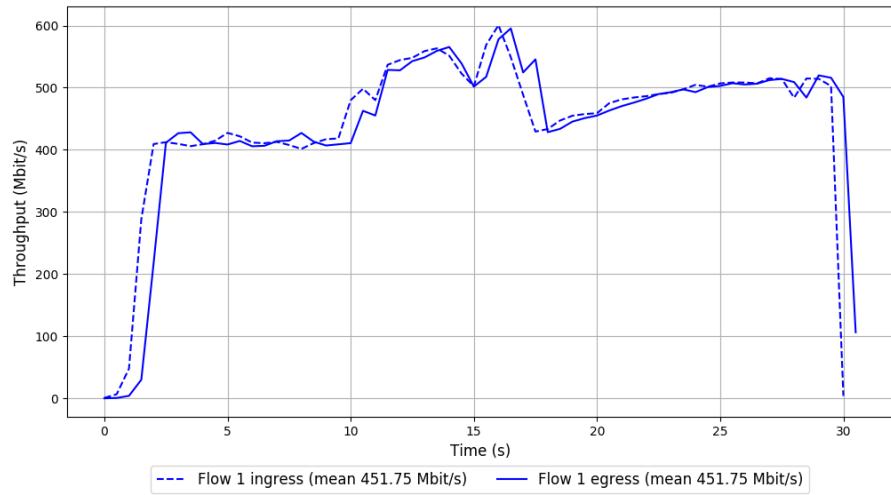


Run 5: Statistics of TCP Cubic

```
Start at: 2019-02-11 12:46:17
End at: 2019-02-11 12:46:47
Local clock offset: 4.315 ms
Remote clock offset: 8.795 ms

# Below is generated by plot.py at 2019-02-11 13:54:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 451.75 Mbit/s
95th percentile per-packet one-way delay: 104.673 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 451.75 Mbit/s
95th percentile per-packet one-way delay: 104.673 ms
Loss rate: 0.00%
```

Run 5: Report of TCP Cubic — Data Link

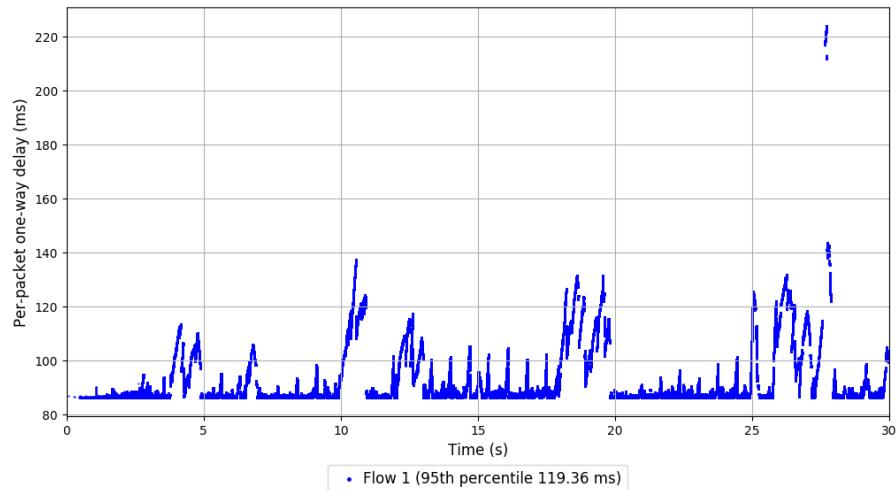
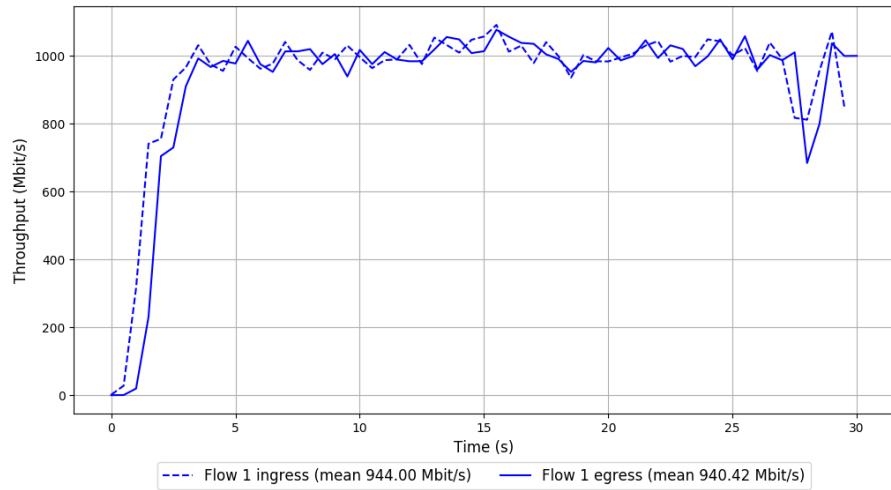


```
Run 1: Statistics of FillP

Start at: 2019-02-11 10:47:16
End at: 2019-02-11 10:47:46
Local clock offset: 11.415 ms
Remote clock offset: 11.378 ms

# Below is generated by plot.py at 2019-02-11 14:06:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 940.42 Mbit/s
95th percentile per-packet one-way delay: 119.355 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 940.42 Mbit/s
95th percentile per-packet one-way delay: 119.355 ms
Loss rate: 0.38%
```

Run 1: Report of FillP — Data Link

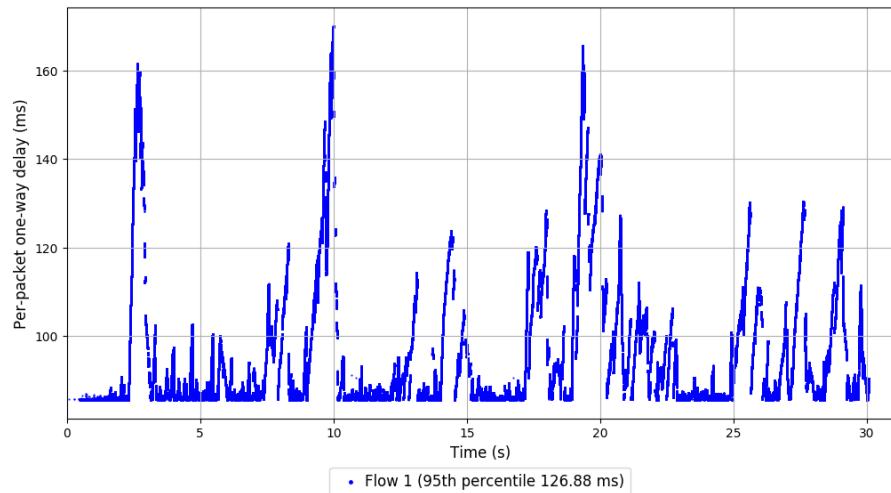
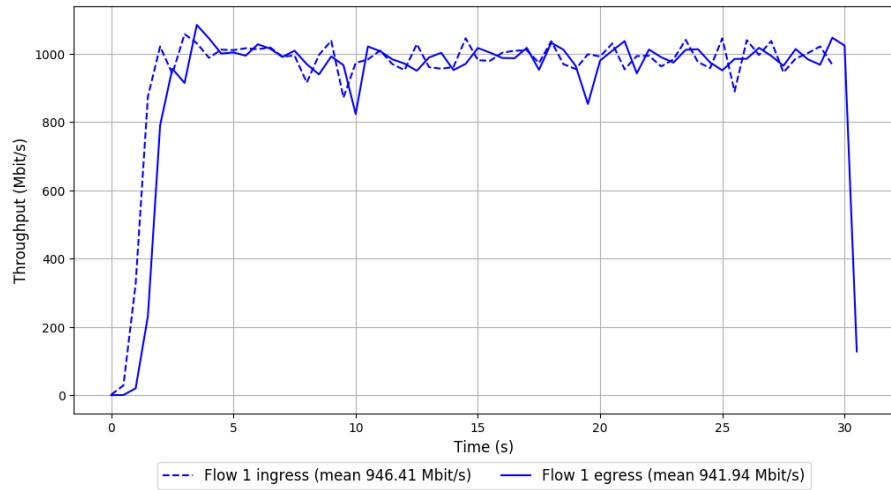


Run 2: Statistics of FillP

```
Start at: 2019-02-11 11:19:37
End at: 2019-02-11 11:20:07
Local clock offset: 20.45 ms
Remote clock offset: 20.373 ms

# Below is generated by plot.py at 2019-02-11 14:20:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 941.94 Mbit/s
95th percentile per-packet one-way delay: 126.878 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 941.94 Mbit/s
95th percentile per-packet one-way delay: 126.878 ms
Loss rate: 0.47%
```

Run 2: Report of FillP — Data Link

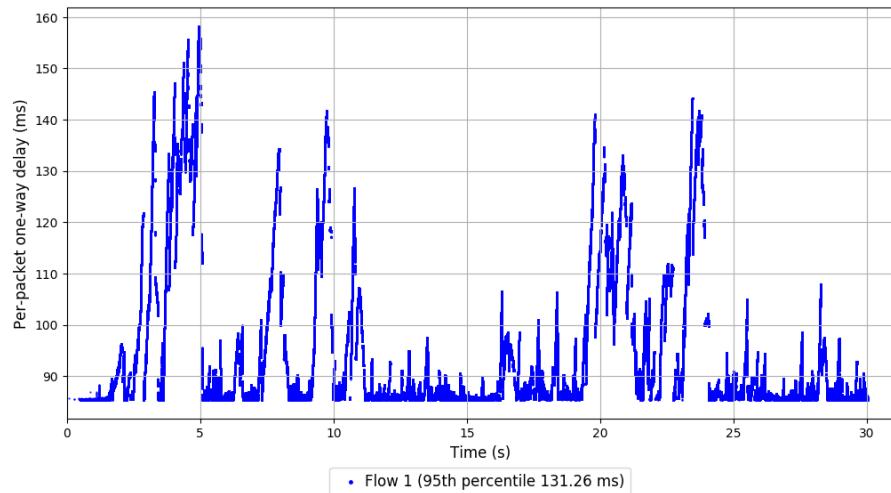
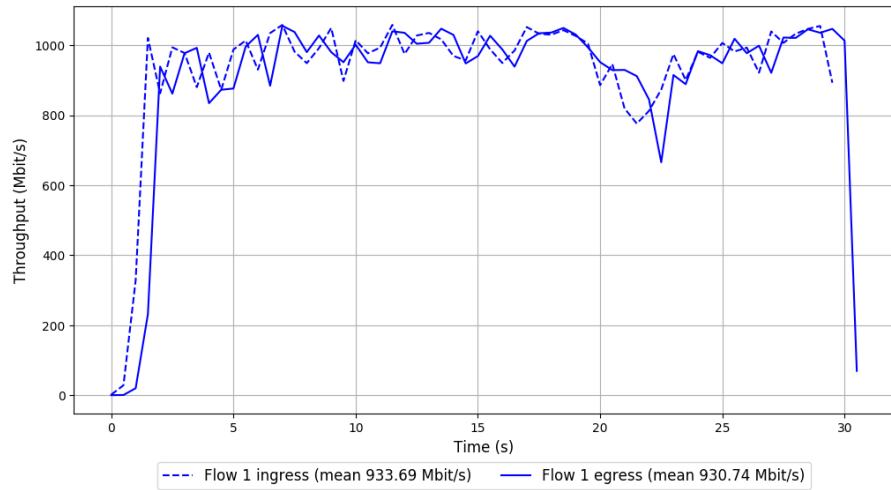


Run 3: Statistics of FillP

```
Start at: 2019-02-11 11:52:02
End at: 2019-02-11 11:52:32
Local clock offset: 18.211 ms
Remote clock offset: 18.055 ms

# Below is generated by plot.py at 2019-02-11 14:20:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 930.74 Mbit/s
95th percentile per-packet one-way delay: 131.256 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 930.74 Mbit/s
95th percentile per-packet one-way delay: 131.256 ms
Loss rate: 0.32%
```

Run 3: Report of FillP — Data Link

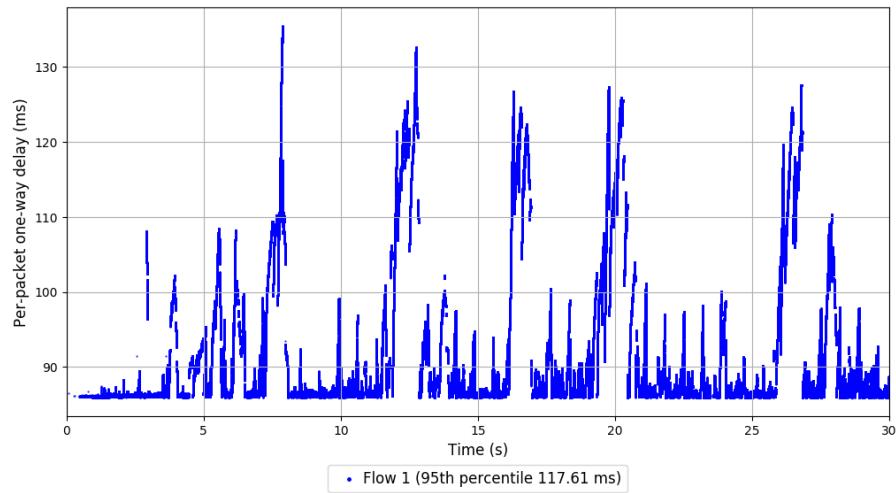
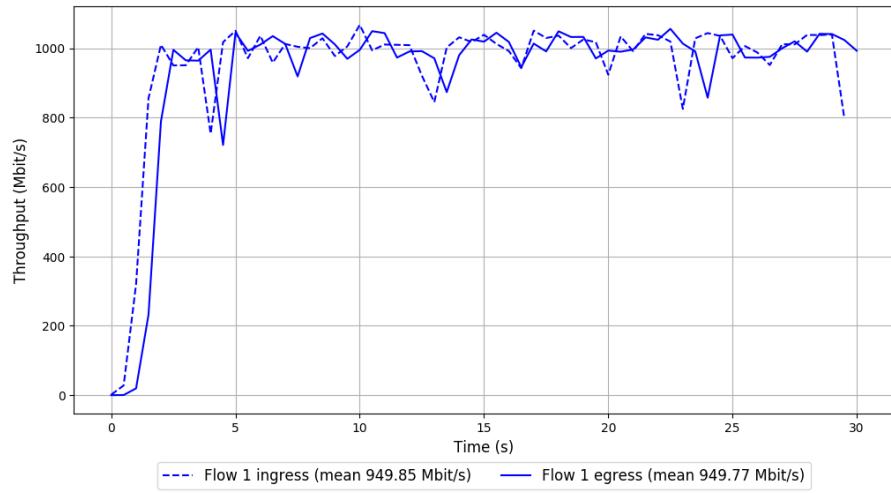


Run 4: Statistics of FillP

```
Start at: 2019-02-11 12:24:23
End at: 2019-02-11 12:24:53
Local clock offset: 8.736 ms
Remote clock offset: 9.864 ms

# Below is generated by plot.py at 2019-02-11 14:21:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 949.77 Mbit/s
95th percentile per-packet one-way delay: 117.613 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 949.77 Mbit/s
95th percentile per-packet one-way delay: 117.613 ms
Loss rate: 0.01%
```

Run 4: Report of FillP — Data Link

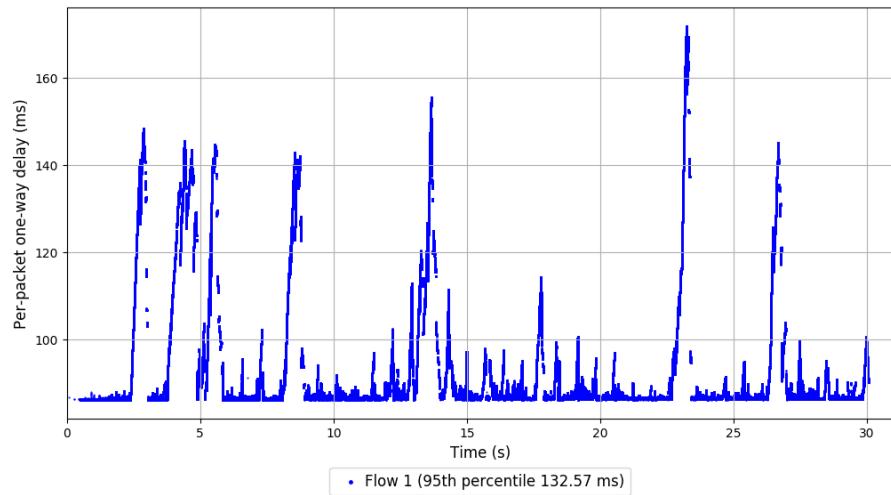
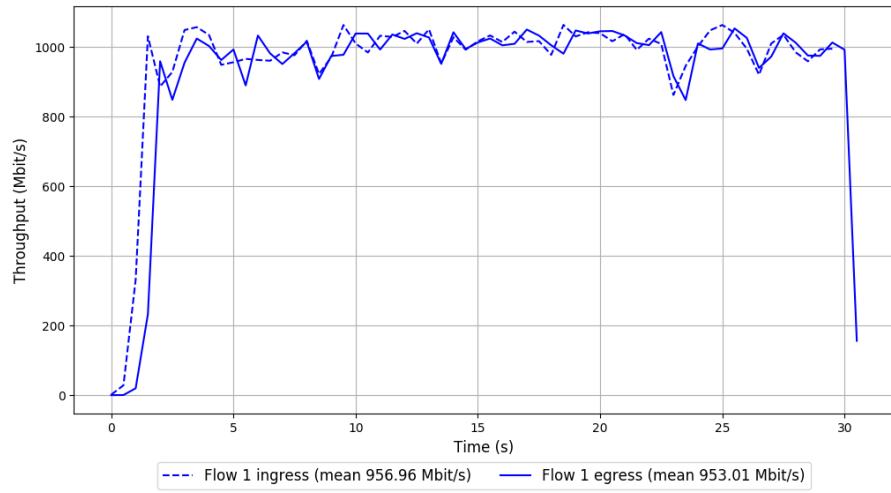


```
Run 5: Statistics of FillP
```

```
Start at: 2019-02-11 12:57:21
End at: 2019-02-11 12:57:51
Local clock offset: 2.112 ms
Remote clock offset: 4.615 ms

# Below is generated by plot.py at 2019-02-11 14:21:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 953.01 Mbit/s
95th percentile per-packet one-way delay: 132.566 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 953.01 Mbit/s
95th percentile per-packet one-way delay: 132.566 ms
Loss rate: 0.41%
```

Run 5: Report of FillP — Data Link

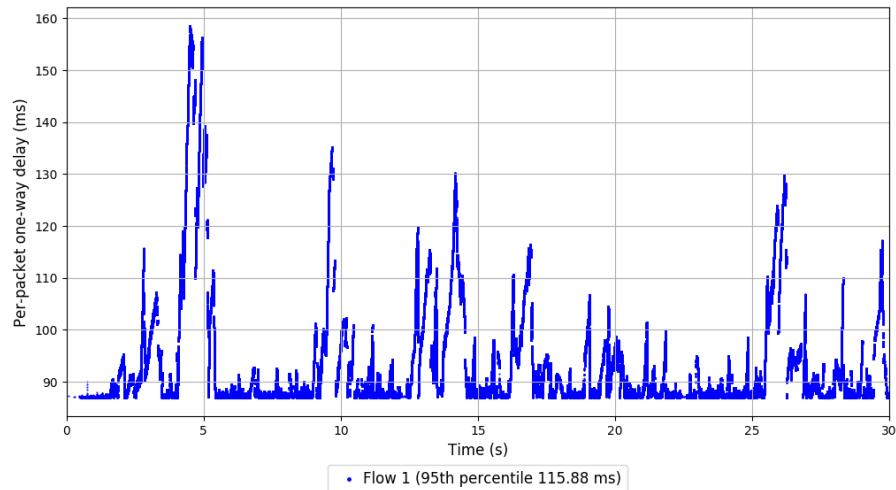
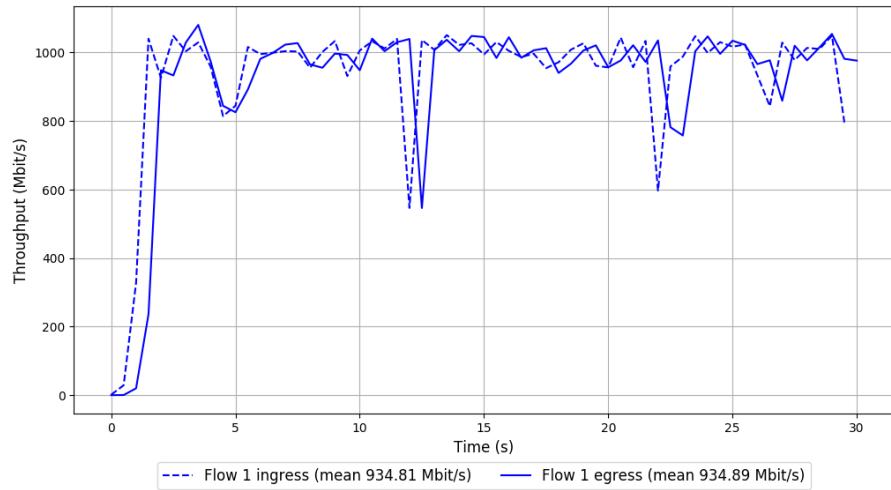


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-02-11 11:01:02
End at: 2019-02-11 11:01:32
Local clock offset: 16.553 ms
Remote clock offset: 17.468 ms

# Below is generated by plot.py at 2019-02-11 14:21:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 934.89 Mbit/s
95th percentile per-packet one-way delay: 115.882 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 934.89 Mbit/s
95th percentile per-packet one-way delay: 115.882 ms
Loss rate: 0.20%
```

Run 1: Report of FillP-Sheep — Data Link

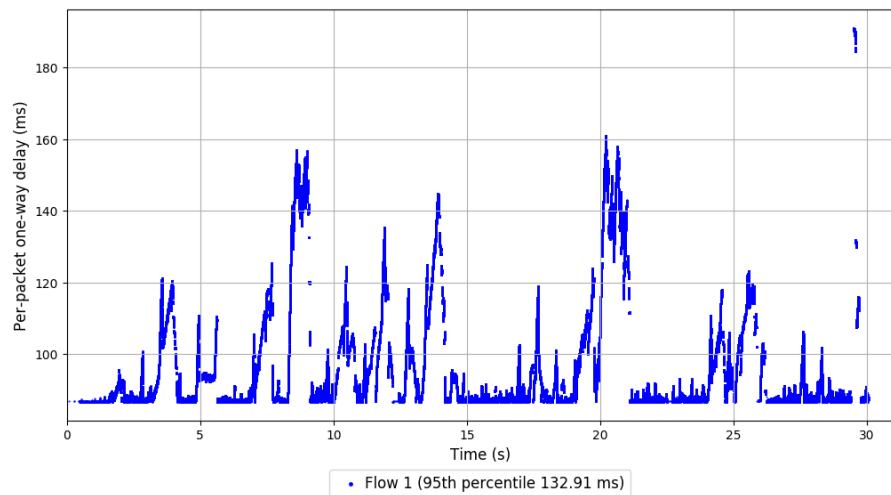
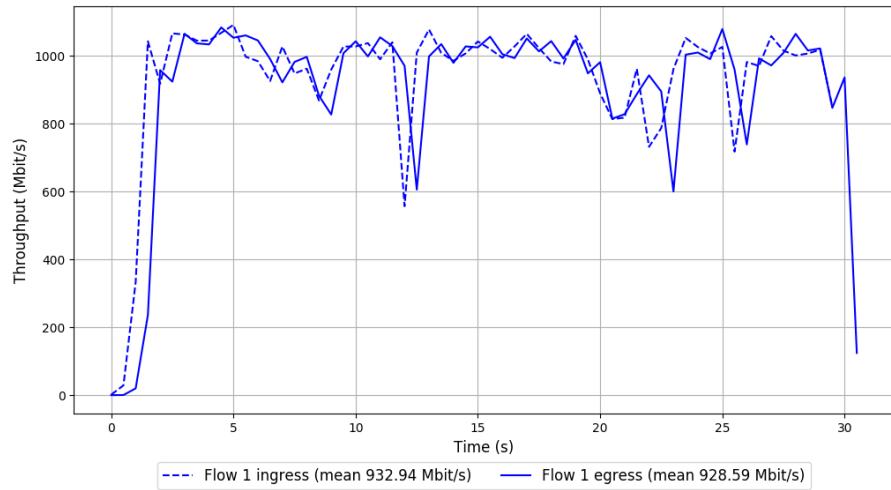


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-02-11 11:33:46
End at: 2019-02-11 11:34:16
Local clock offset: 30.582 ms
Remote clock offset: 31.236 ms

# Below is generated by plot.py at 2019-02-11 14:21:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 928.59 Mbit/s
95th percentile per-packet one-way delay: 132.908 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 928.59 Mbit/s
95th percentile per-packet one-way delay: 132.908 ms
Loss rate: 0.47%
```

Run 2: Report of FillP-Sheep — Data Link

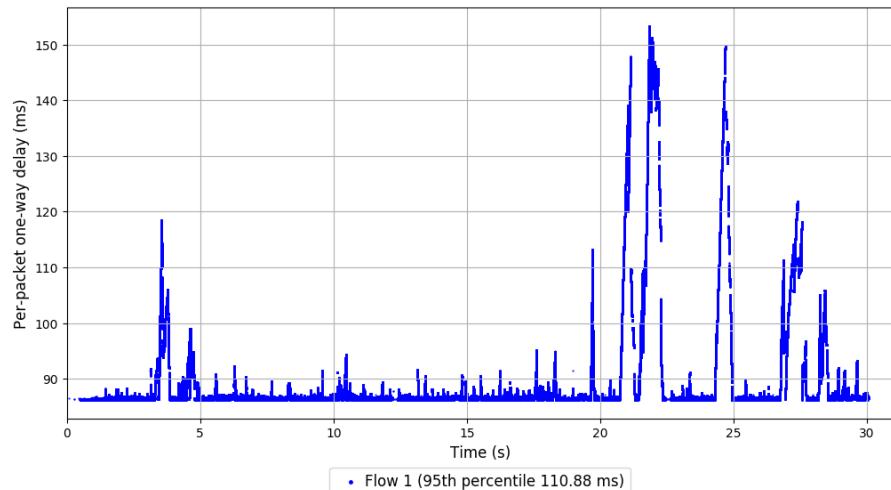
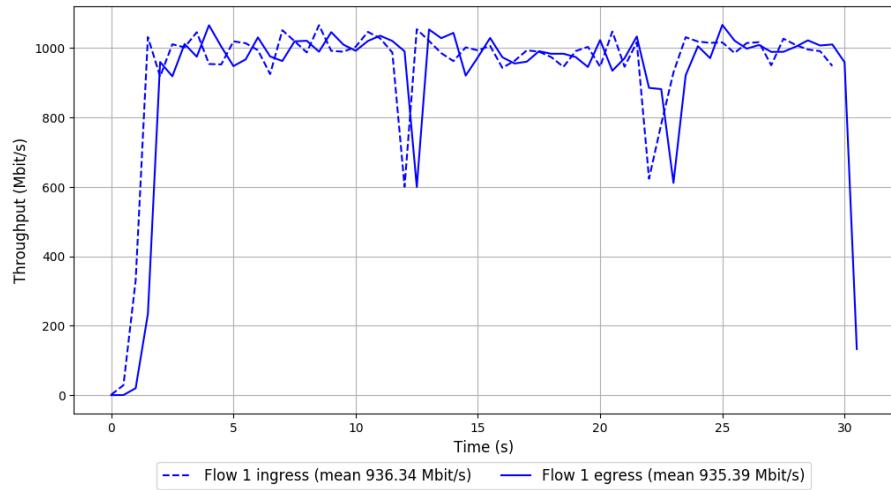


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-02-11 12:05:31
End at: 2019-02-11 12:06:01
Local clock offset: 15.57 ms
Remote clock offset: 16.065 ms

# Below is generated by plot.py at 2019-02-11 14:21:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 935.39 Mbit/s
95th percentile per-packet one-way delay: 110.876 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 935.39 Mbit/s
95th percentile per-packet one-way delay: 110.876 ms
Loss rate: 0.10%
```

Run 3: Report of FillP-Sheep — Data Link

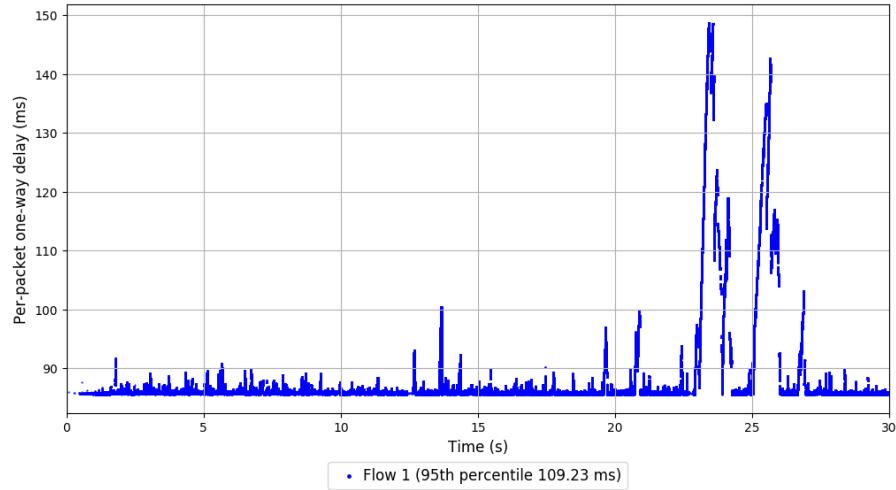
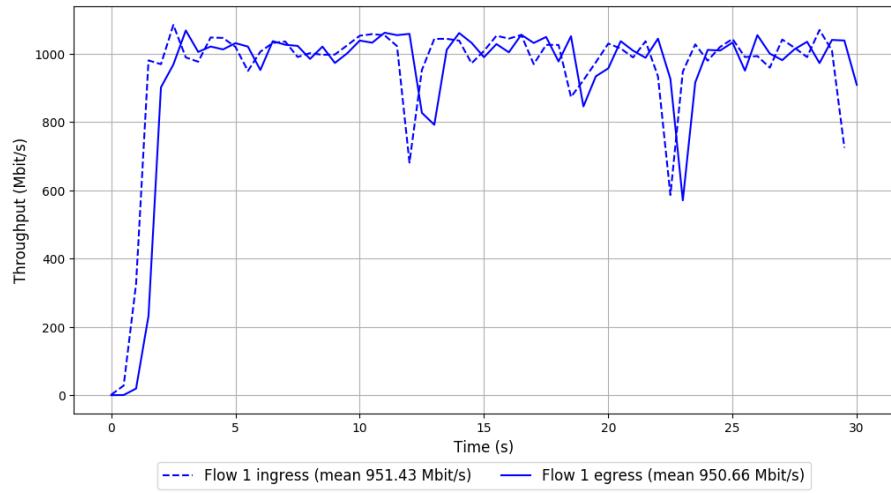


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-02-11 12:38:09
End at: 2019-02-11 12:38:39
Local clock offset: 4.48 ms
Remote clock offset: 7.516 ms

# Below is generated by plot.py at 2019-02-11 14:37:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 950.66 Mbit/s
95th percentile per-packet one-way delay: 109.235 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 950.66 Mbit/s
95th percentile per-packet one-way delay: 109.235 ms
Loss rate: 0.08%
```

Run 4: Report of FillP-Sheep — Data Link

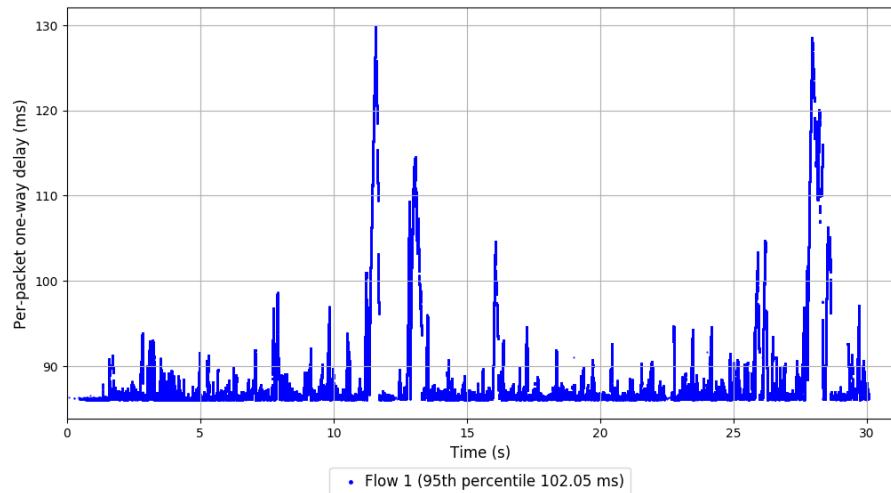
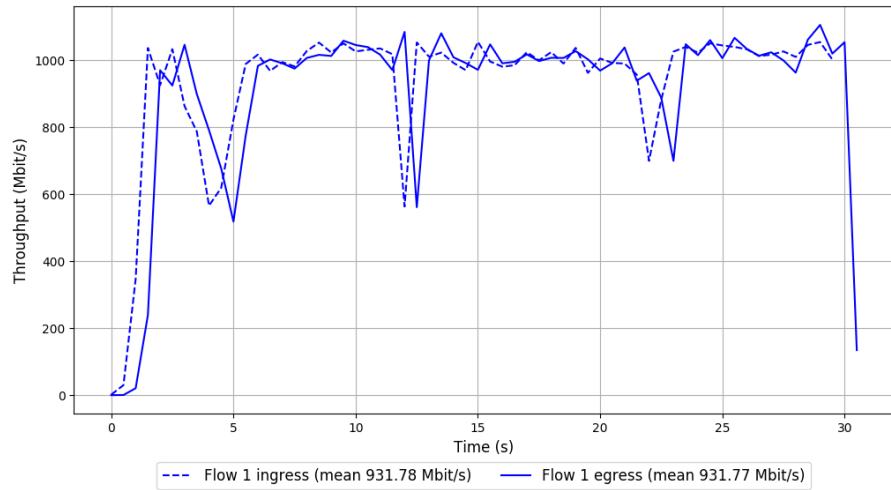


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-02-11 13:10:54
End at: 2019-02-11 13:11:24
Local clock offset: 1.33 ms
Remote clock offset: 2.077 ms

# Below is generated by plot.py at 2019-02-11 14:47:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 931.77 Mbit/s
95th percentile per-packet one-way delay: 102.051 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 931.77 Mbit/s
95th percentile per-packet one-way delay: 102.051 ms
Loss rate: 0.00%
```

Run 5: Report of FillP-Sheep — Data Link

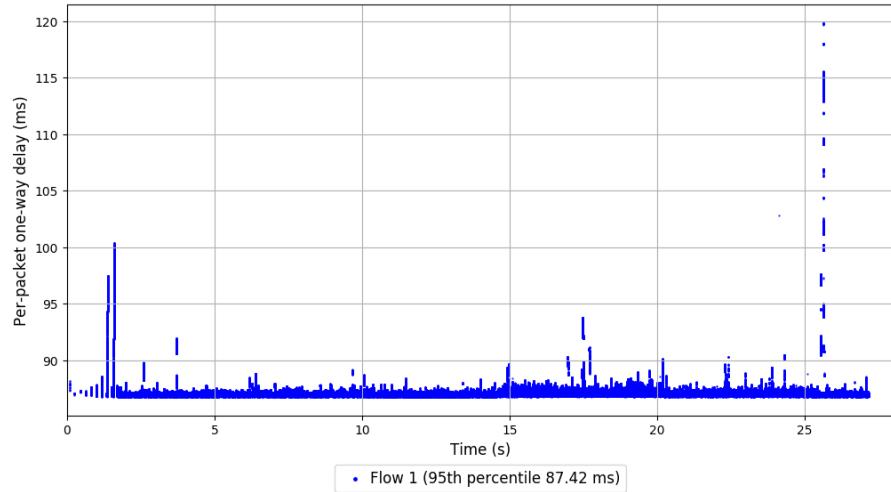
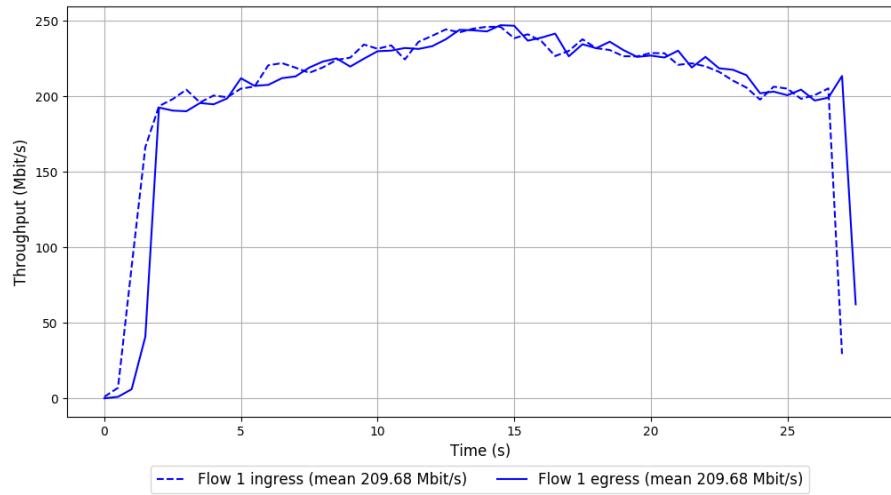


Run 1: Statistics of Indigo

```
Start at: 2019-02-11 10:56:30
End at: 2019-02-11 10:57:00
Local clock offset: 12.814 ms
Remote clock offset: 13.596 ms

# Below is generated by plot.py at 2019-02-11 14:47:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 209.68 Mbit/s
95th percentile per-packet one-way delay: 87.417 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 209.68 Mbit/s
95th percentile per-packet one-way delay: 87.417 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

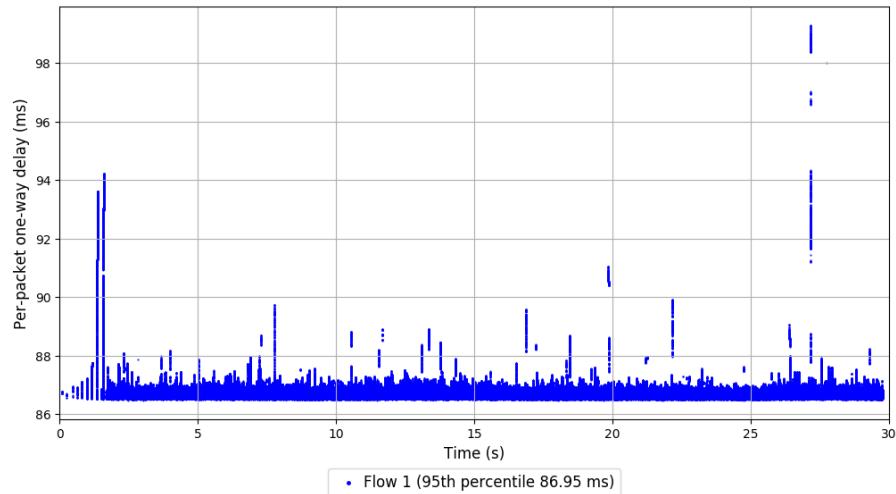
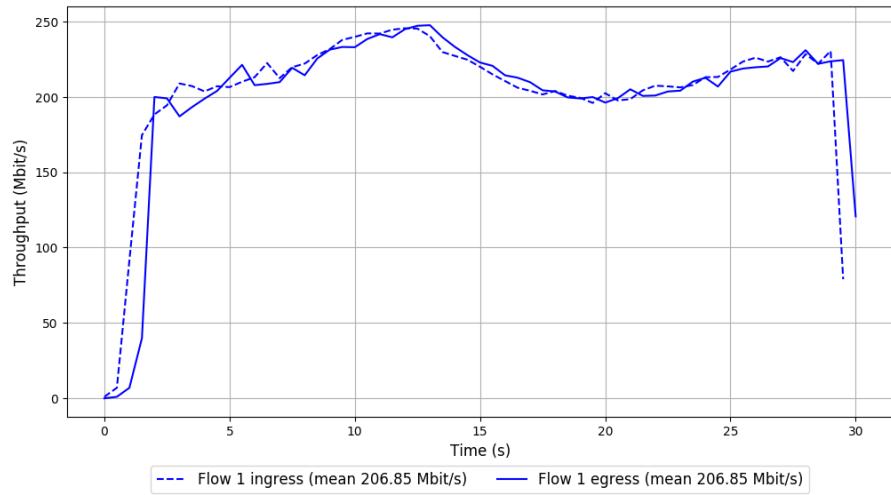


Run 2: Statistics of Indigo

```
Start at: 2019-02-11 11:29:12
End at: 2019-02-11 11:29:42
Local clock offset: 26.117 ms
Remote clock offset: 26.998 ms

# Below is generated by plot.py at 2019-02-11 14:47:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 206.85 Mbit/s
95th percentile per-packet one-way delay: 86.949 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 206.85 Mbit/s
95th percentile per-packet one-way delay: 86.949 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo — Data Link

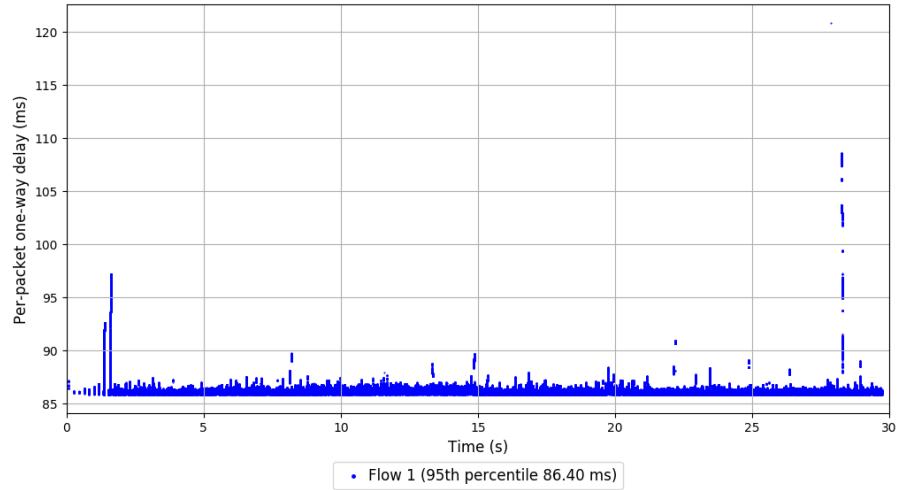
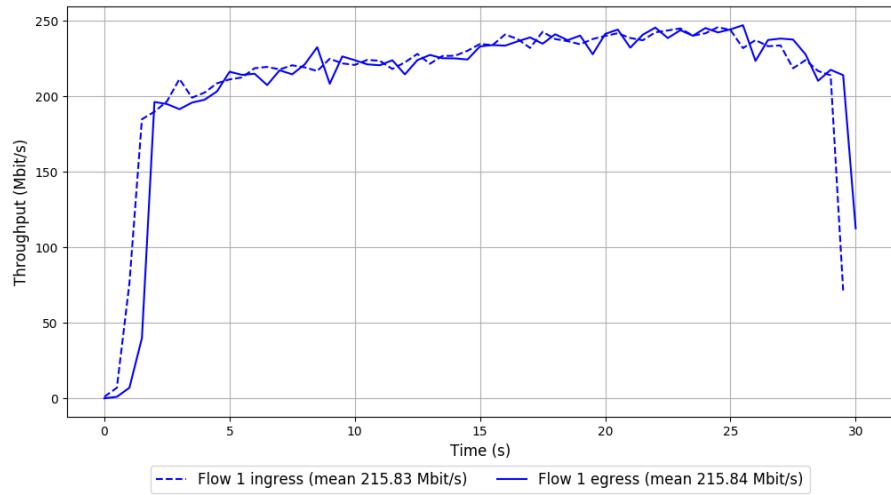


Run 3: Statistics of Indigo

```
Start at: 2019-02-11 12:00:54
End at: 2019-02-11 12:01:24
Local clock offset: 14.986 ms
Remote clock offset: 15.212 ms

# Below is generated by plot.py at 2019-02-11 14:47:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 215.84 Mbit/s
95th percentile per-packet one-way delay: 86.403 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 215.84 Mbit/s
95th percentile per-packet one-way delay: 86.403 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo — Data Link

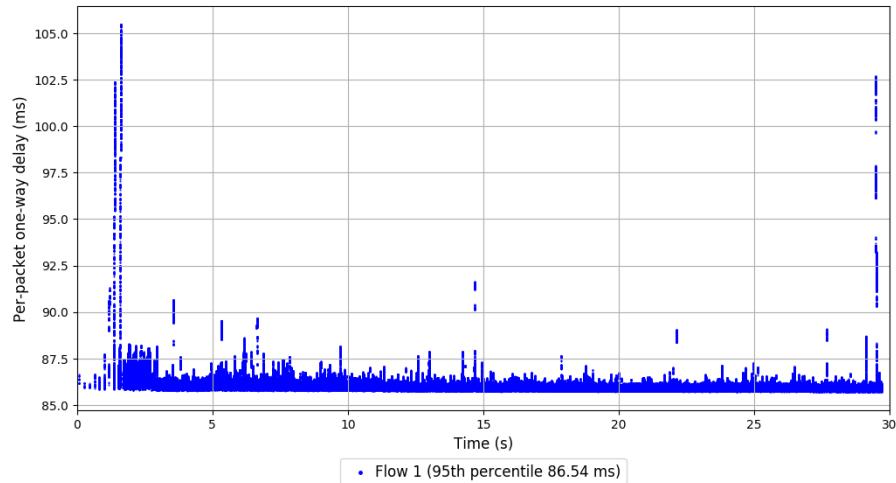
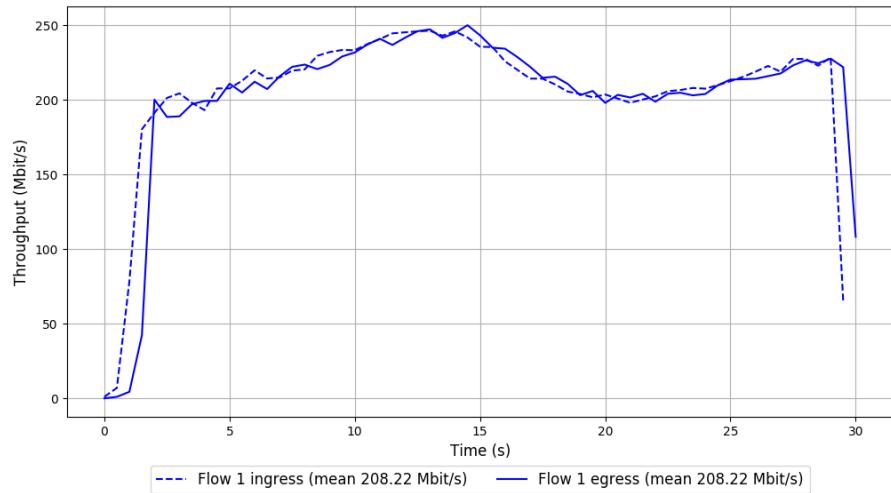


Run 4: Statistics of Indigo

```
Start at: 2019-02-11 12:33:44
End at: 2019-02-11 12:34:14
Local clock offset: 4.729 ms
Remote clock offset: 7.332 ms

# Below is generated by plot.py at 2019-02-11 14:47:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 208.22 Mbit/s
95th percentile per-packet one-way delay: 86.537 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 208.22 Mbit/s
95th percentile per-packet one-way delay: 86.537 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo — Data Link

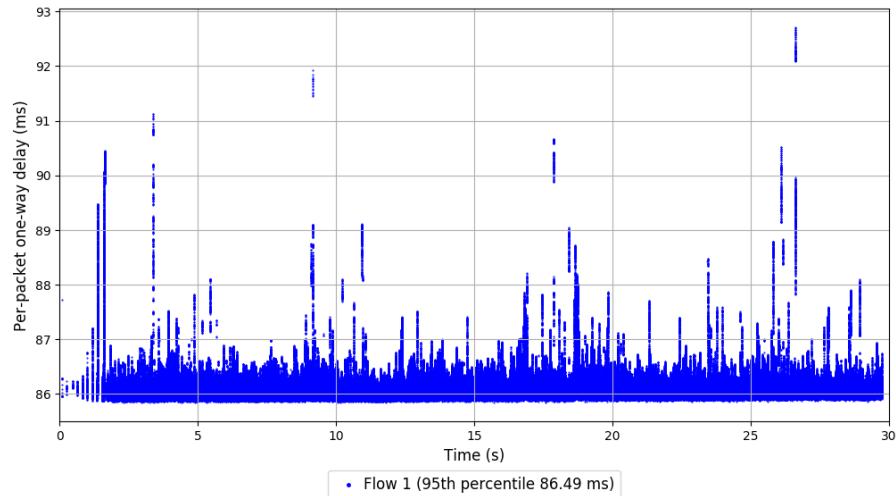
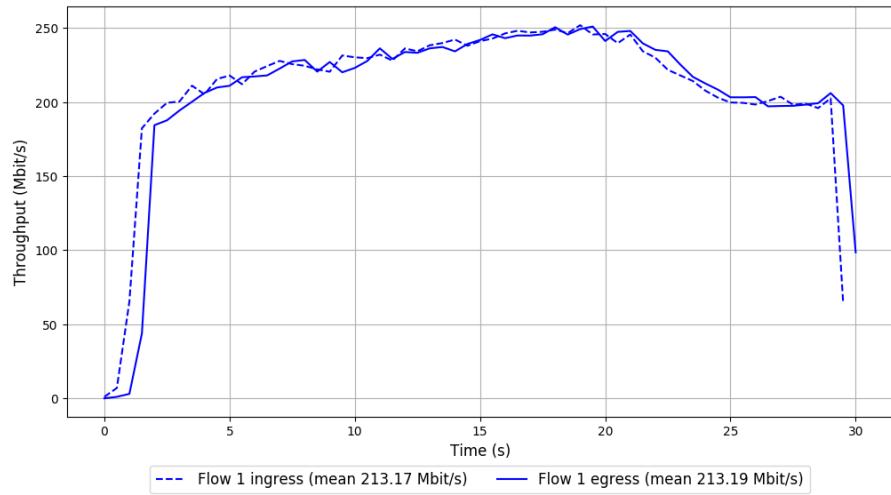


Run 5: Statistics of Indigo

```
Start at: 2019-02-11 13:06:26
End at: 2019-02-11 13:06:56
Local clock offset: 1.506 ms
Remote clock offset: 2.406 ms

# Below is generated by plot.py at 2019-02-11 14:47:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 213.19 Mbit/s
95th percentile per-packet one-way delay: 86.490 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 213.19 Mbit/s
95th percentile per-packet one-way delay: 86.490 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo — Data Link

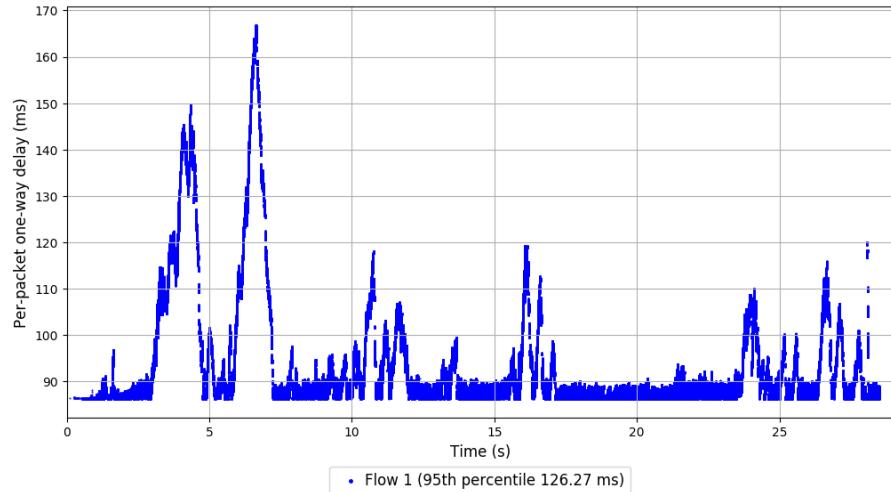
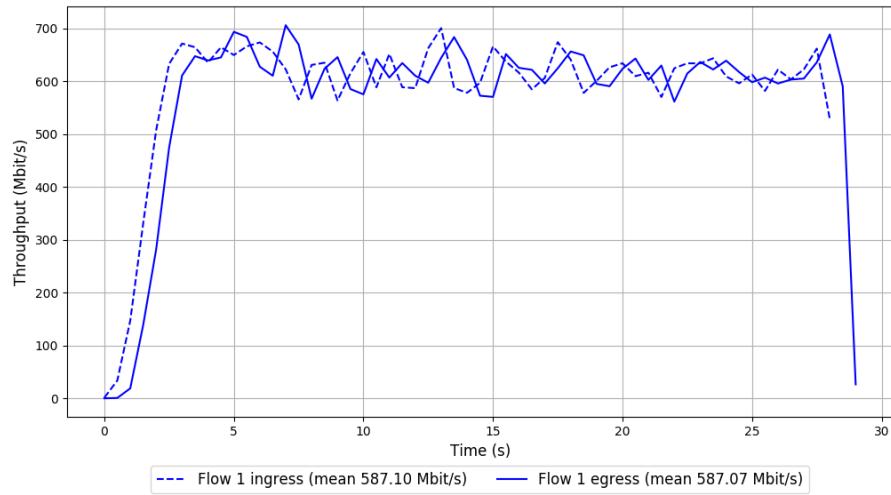


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-02-11 11:05:37
End at: 2019-02-11 11:06:07
Local clock offset: 22.963 ms
Remote clock offset: 23.683 ms

# Below is generated by plot.py at 2019-02-11 14:47:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 587.07 Mbit/s
95th percentile per-packet one-way delay: 126.266 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 587.07 Mbit/s
95th percentile per-packet one-way delay: 126.266 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesC3 — Data Link

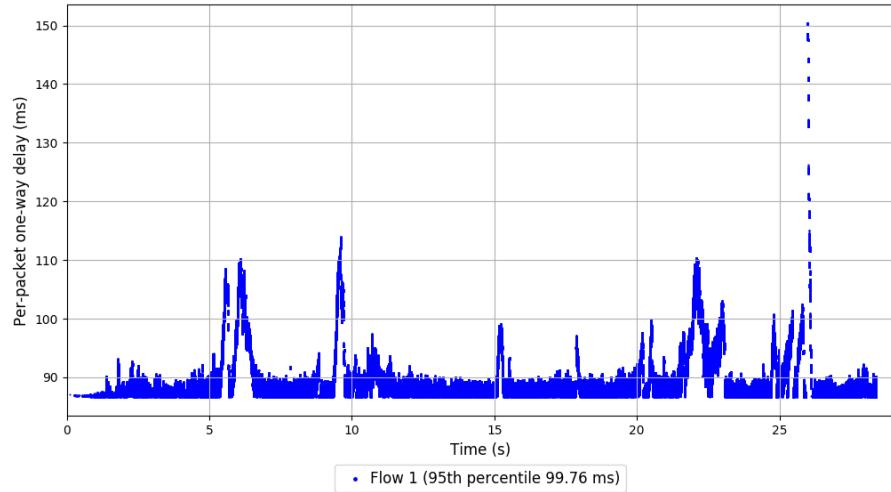
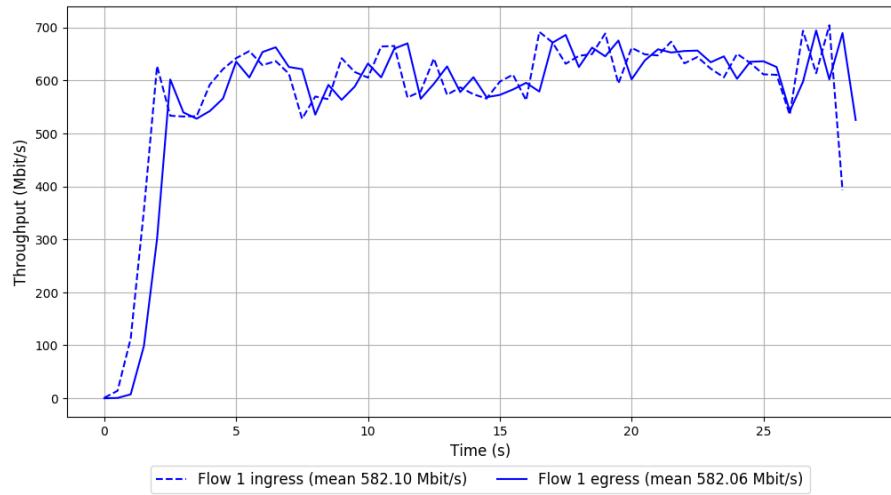


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-02-11 11:38:21
End at: 2019-02-11 11:38:51
Local clock offset: 35.14 ms
Remote clock offset: 36.174 ms

# Below is generated by plot.py at 2019-02-11 14:47:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 582.06 Mbit/s
95th percentile per-packet one-way delay: 99.764 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 582.06 Mbit/s
95th percentile per-packet one-way delay: 99.764 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-MusesC3 — Data Link

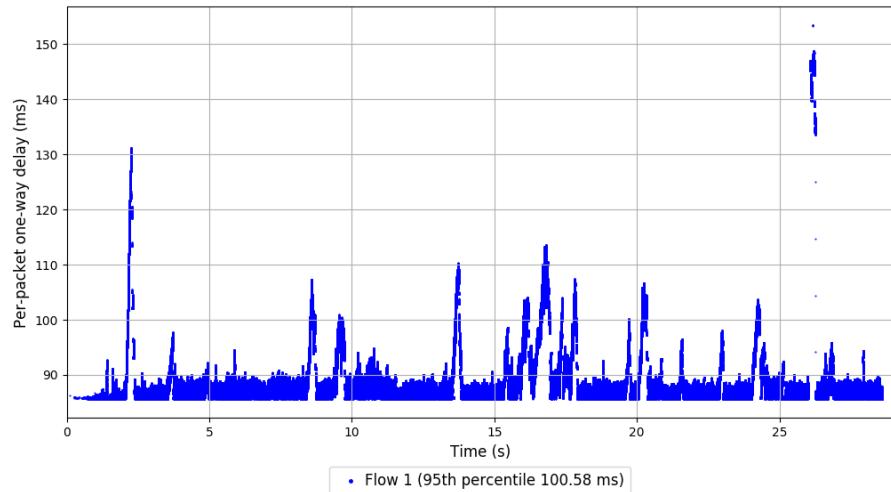
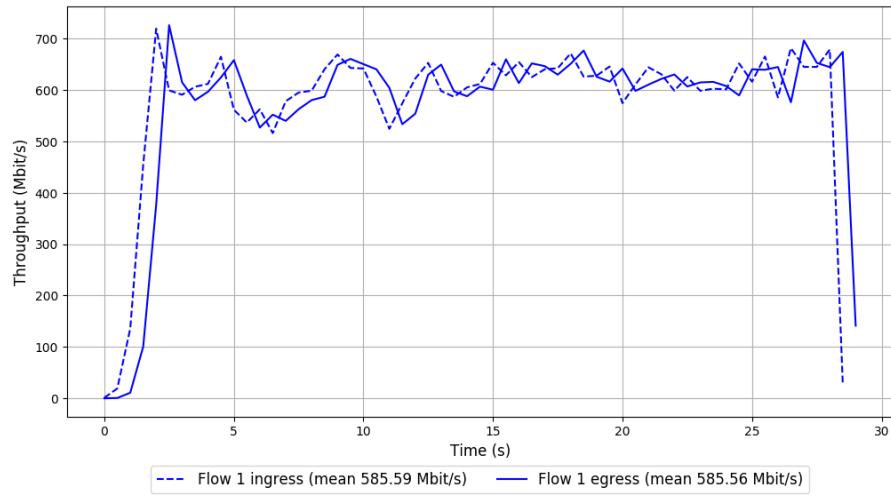


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-02-11 12:10:08
End at: 2019-02-11 12:10:38
Local clock offset: 17.748 ms
Remote clock offset: 17.711 ms

# Below is generated by plot.py at 2019-02-11 14:47:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 585.56 Mbit/s
95th percentile per-packet one-way delay: 100.584 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 585.56 Mbit/s
95th percentile per-packet one-way delay: 100.584 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-MusesC3 — Data Link

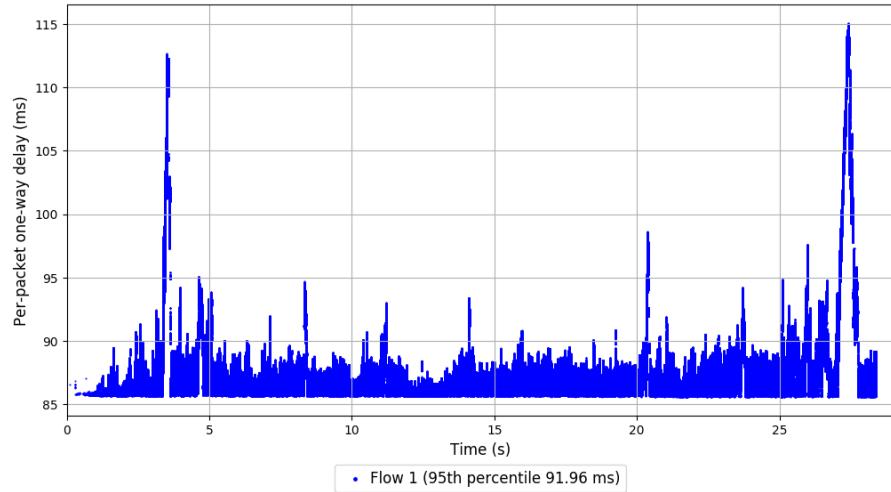
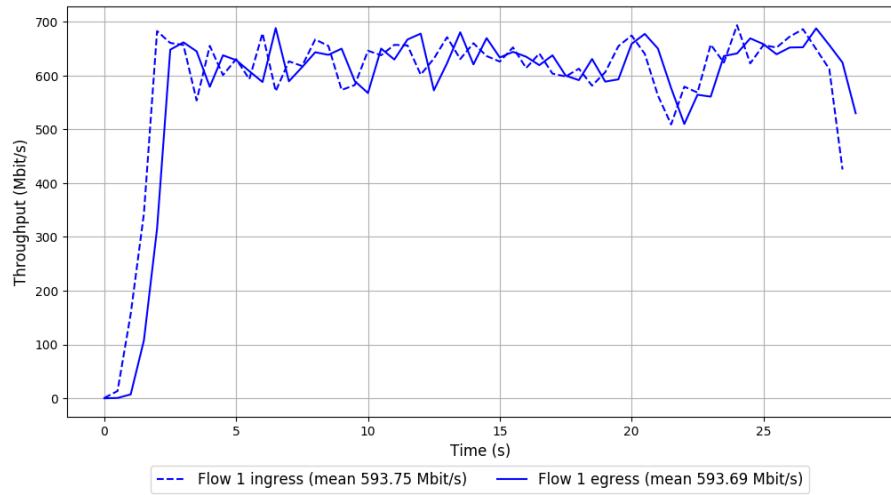


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-02-11 12:42:54
End at: 2019-02-11 12:43:24
Local clock offset: 4.396 ms
Remote clock offset: 8.205 ms

# Below is generated by plot.py at 2019-02-11 14:47:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 593.69 Mbit/s
95th percentile per-packet one-way delay: 91.961 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 593.69 Mbit/s
95th percentile per-packet one-way delay: 91.961 ms
Loss rate: 0.01%
```

Run 4: Report of Indigo-MusesC3 — Data Link

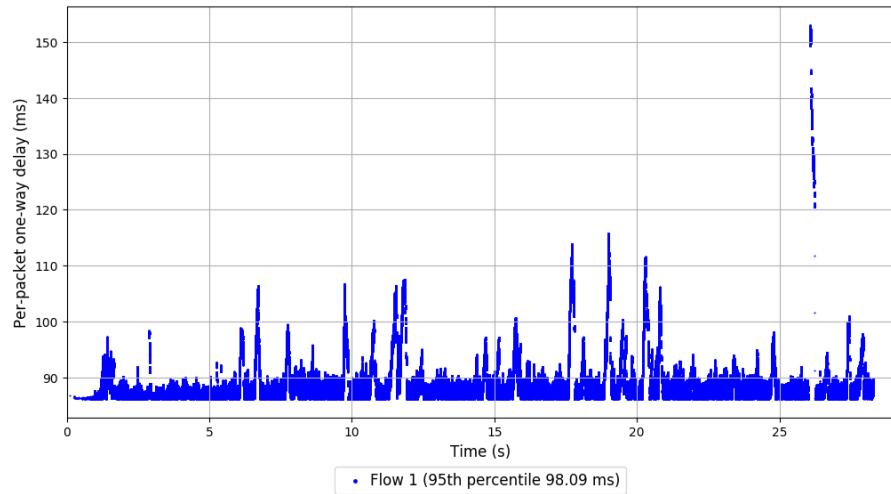
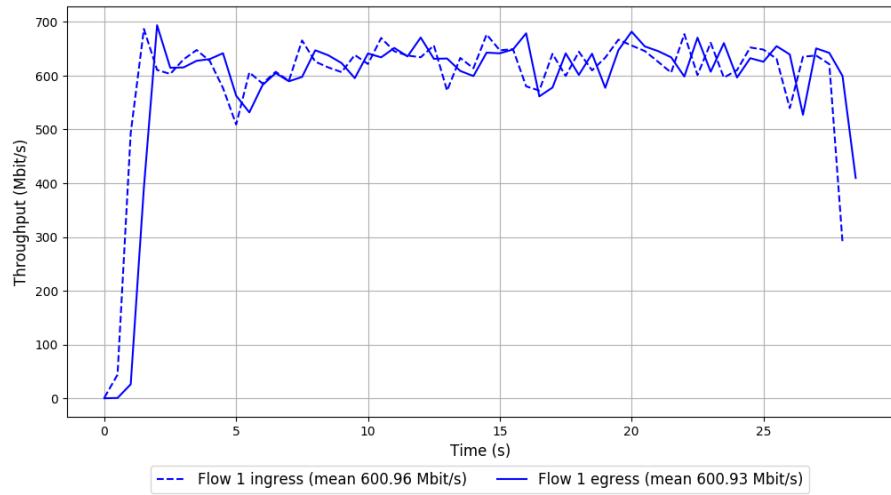


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-02-11 13:15:30
End at: 2019-02-11 13:16:00
Local clock offset: 1.304 ms
Remote clock offset: 2.024 ms

# Below is generated by plot.py at 2019-02-11 14:47:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 600.93 Mbit/s
95th percentile per-packet one-way delay: 98.089 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 600.93 Mbit/s
95th percentile per-packet one-way delay: 98.089 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

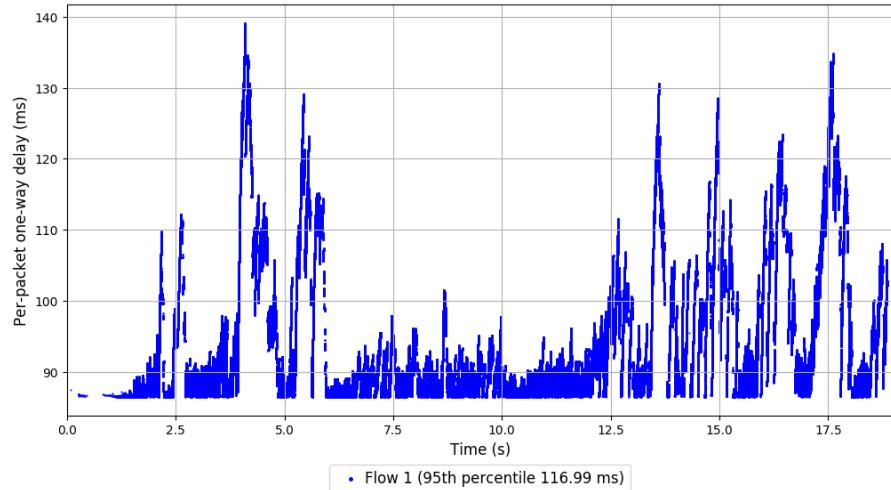
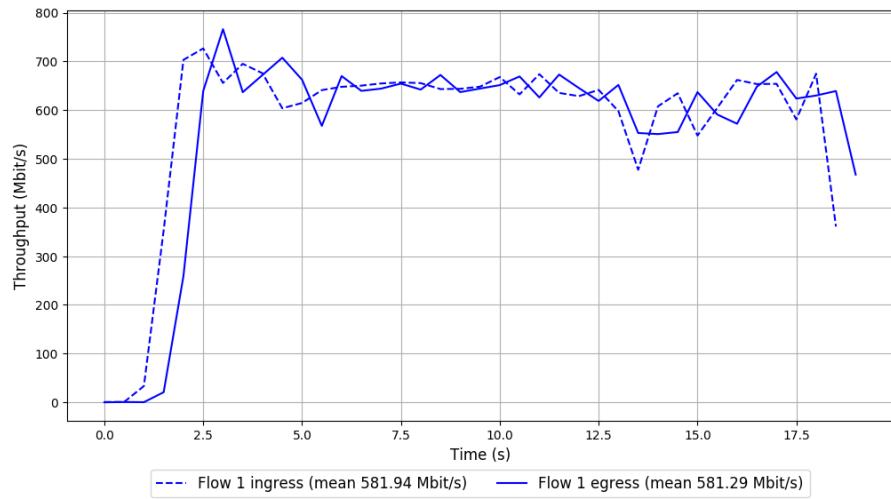
Start at: 2019-02-11 10:40:14

End at: 2019-02-11 10:40:44

Local clock offset: 6.635 ms

Remote clock offset: 7.123 ms

Run 1: Report of Indigo-MusesC5 — Data Link

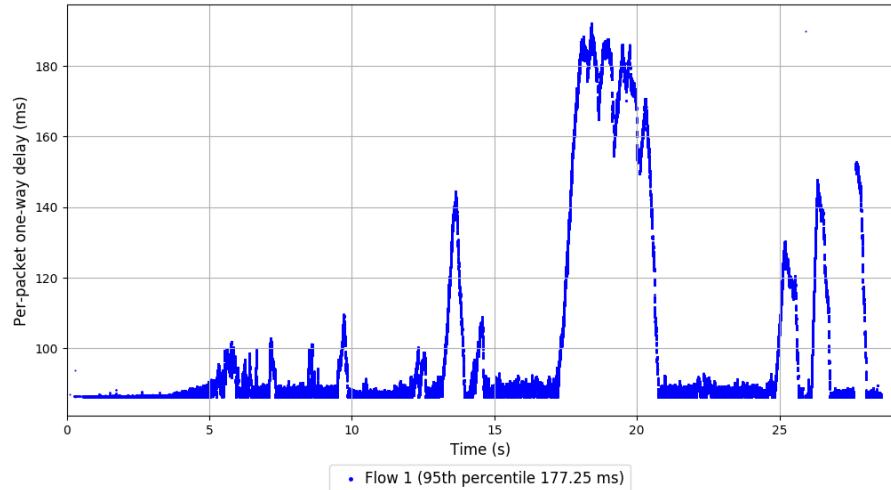
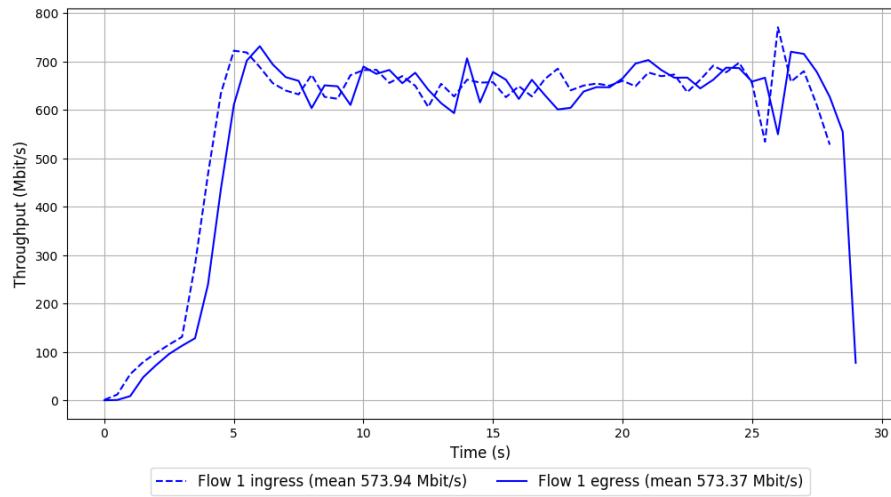


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-02-11 11:11:52
End at: 2019-02-11 11:12:22
Local clock offset: 20.853 ms
Remote clock offset: 21.448 ms

# Below is generated by plot.py at 2019-02-11 14:49:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 573.37 Mbit/s
95th percentile per-packet one-way delay: 177.249 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 573.37 Mbit/s
95th percentile per-packet one-way delay: 177.249 ms
Loss rate: 0.10%
```

Run 2: Report of Indigo-MusesC5 — Data Link

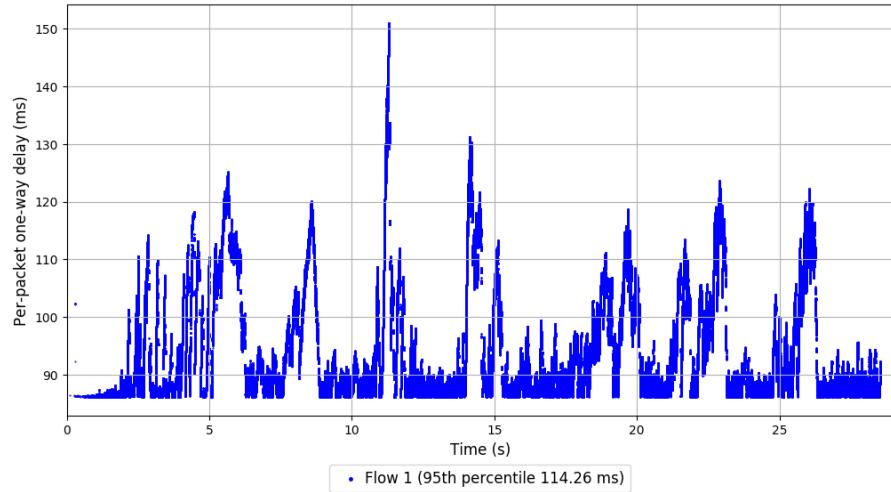
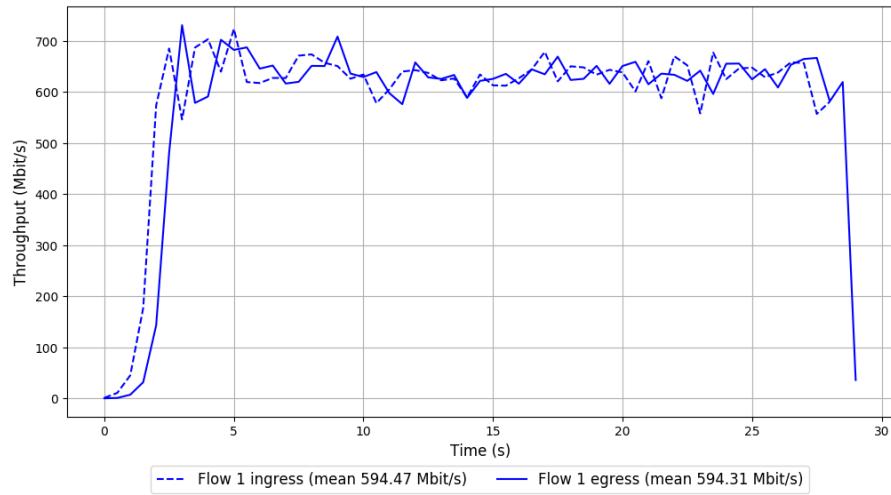


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-02-11 11:44:44
End at: 2019-02-11 11:45:14
Local clock offset: 30.355 ms
Remote clock offset: 30.856 ms

# Below is generated by plot.py at 2019-02-11 14:53:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 594.31 Mbit/s
95th percentile per-packet one-way delay: 114.262 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 594.31 Mbit/s
95th percentile per-packet one-way delay: 114.262 ms
Loss rate: 0.02%
```

Run 3: Report of Indigo-MusesC5 — Data Link

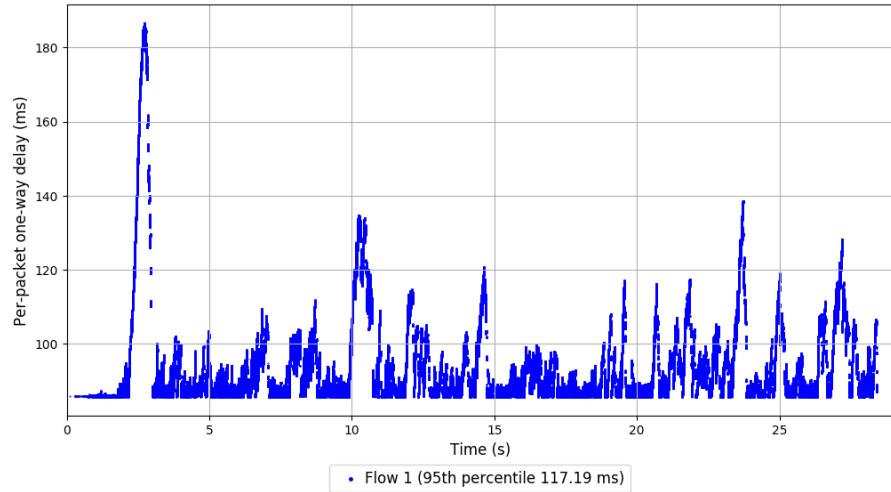
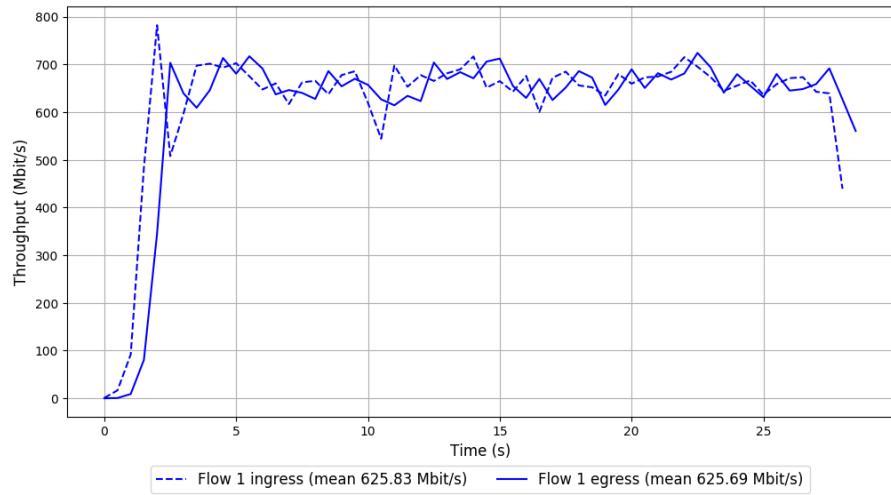


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-02-11 12:16:40
End at: 2019-02-11 12:17:10
Local clock offset: 19.03 ms
Remote clock offset: 19.089 ms

# Below is generated by plot.py at 2019-02-11 14:56:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 625.69 Mbit/s
95th percentile per-packet one-way delay: 117.190 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 625.69 Mbit/s
95th percentile per-packet one-way delay: 117.190 ms
Loss rate: 0.02%
```

Run 4: Report of Indigo-MusesC5 — Data Link

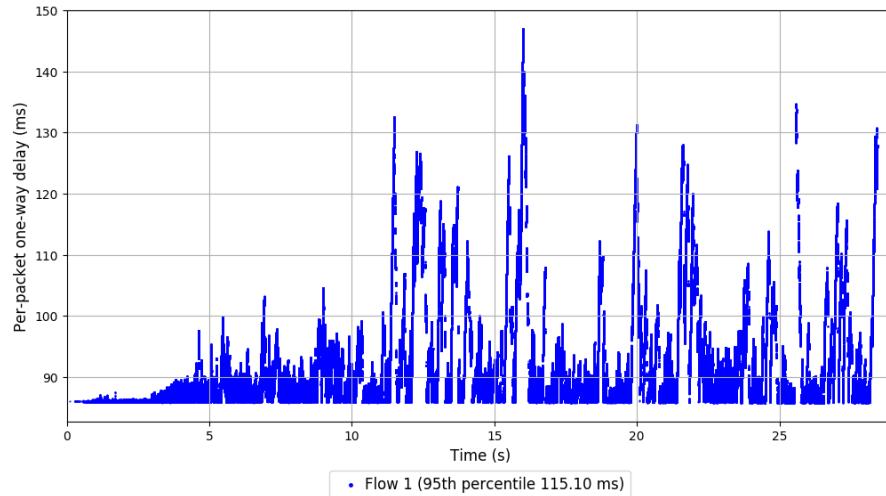
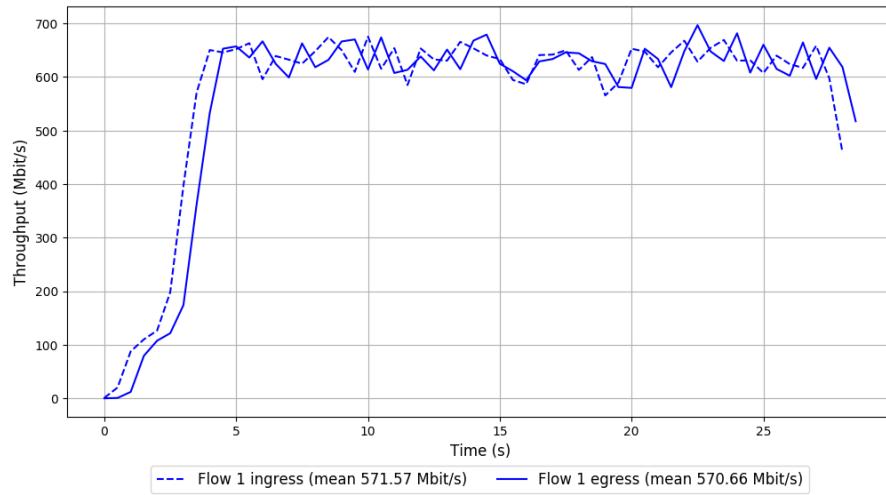


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-02-11 12:49:40
End at: 2019-02-11 12:50:10
Local clock offset: 4.581 ms
Remote clock offset: 9.539 ms

# Below is generated by plot.py at 2019-02-11 14:56:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 570.66 Mbit/s
95th percentile per-packet one-way delay: 115.103 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 570.66 Mbit/s
95th percentile per-packet one-way delay: 115.103 ms
Loss rate: 0.15%
```

Run 5: Report of Indigo-MusesC5 — Data Link

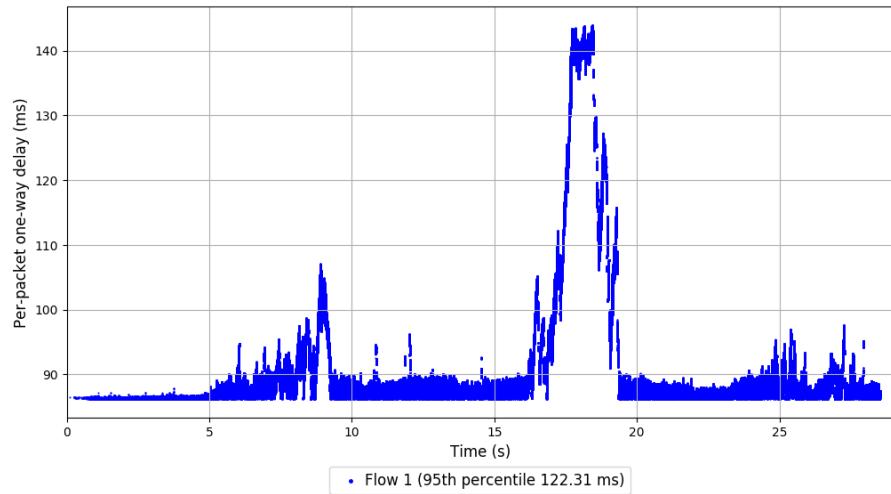
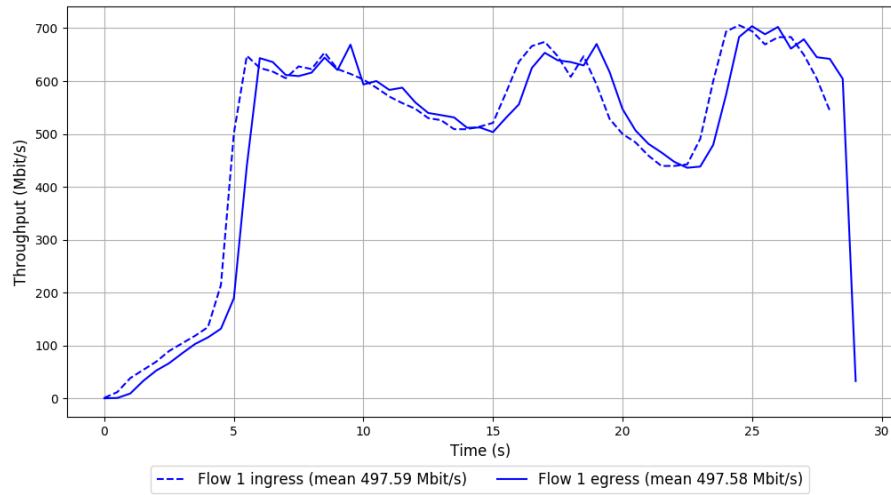


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-02-11 10:58:00
End at: 2019-02-11 10:58:30
Local clock offset: 13.963 ms
Remote clock offset: 14.522 ms

# Below is generated by plot.py at 2019-02-11 14:56:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 497.58 Mbit/s
95th percentile per-packet one-way delay: 122.315 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 497.58 Mbit/s
95th percentile per-packet one-way delay: 122.315 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesD — Data Link

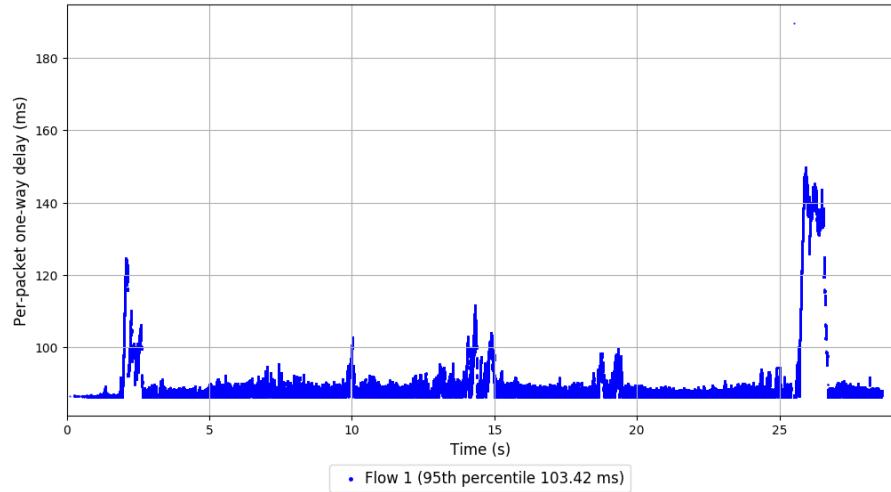
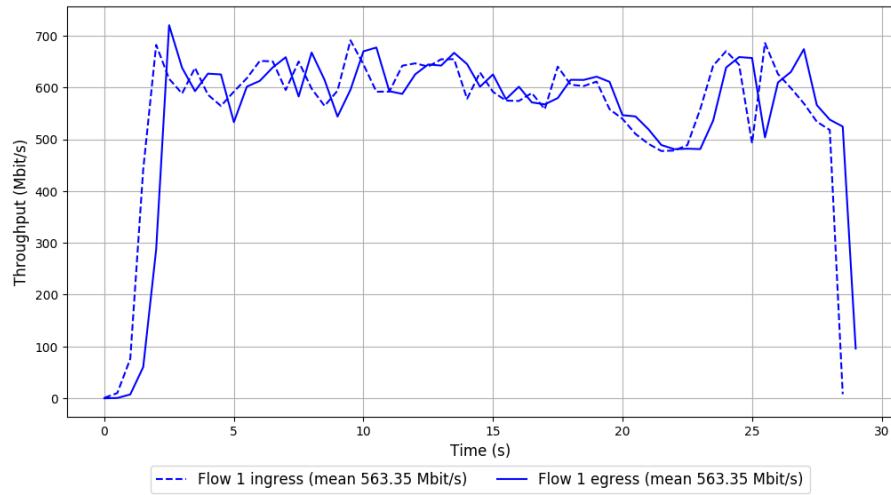


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-02-11 11:30:40
End at: 2019-02-11 11:31:10
Local clock offset: 27.809 ms
Remote clock offset: 28.267 ms

# Below is generated by plot.py at 2019-02-11 14:58:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 563.35 Mbit/s
95th percentile per-packet one-way delay: 103.416 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 563.35 Mbit/s
95th percentile per-packet one-way delay: 103.416 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-MusesD — Data Link

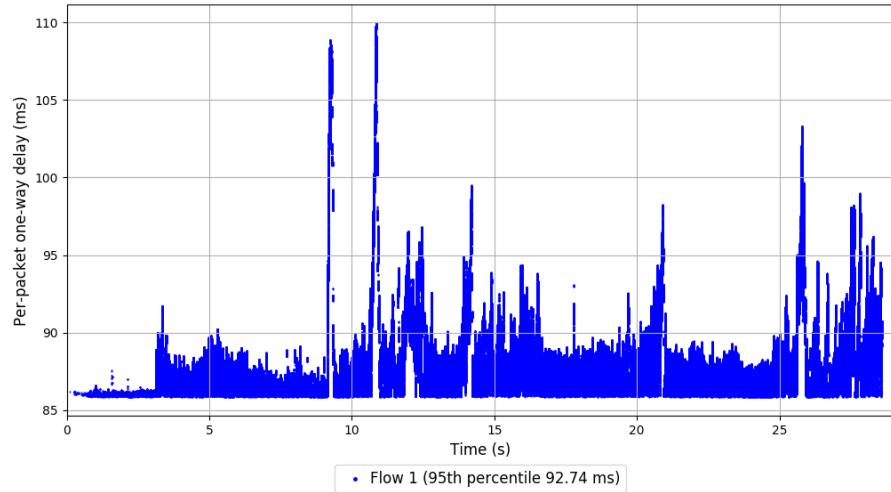
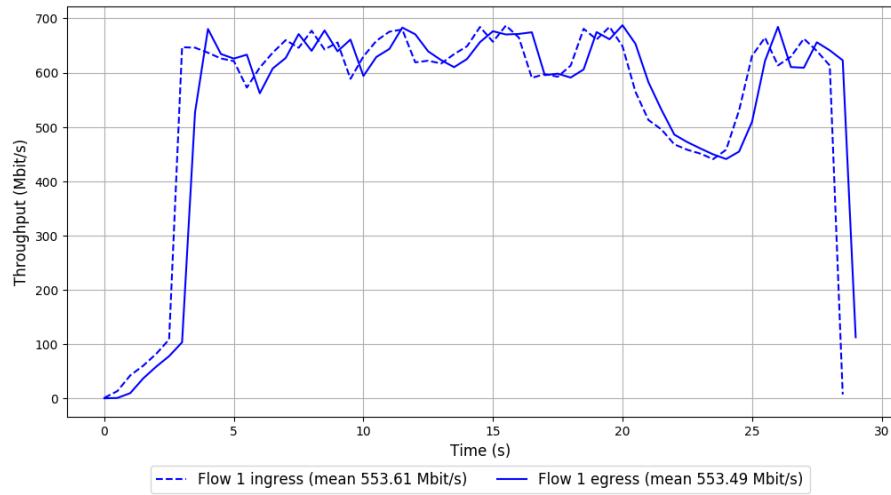


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-02-11 12:02:25
End at: 2019-02-11 12:02:55
Local clock offset: 15.495 ms
Remote clock offset: 15.416 ms

# Below is generated by plot.py at 2019-02-11 14:59:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 553.49 Mbit/s
95th percentile per-packet one-way delay: 92.743 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 553.49 Mbit/s
95th percentile per-packet one-way delay: 92.743 ms
Loss rate: 0.02%
```

Run 3: Report of Indigo-MusesD — Data Link

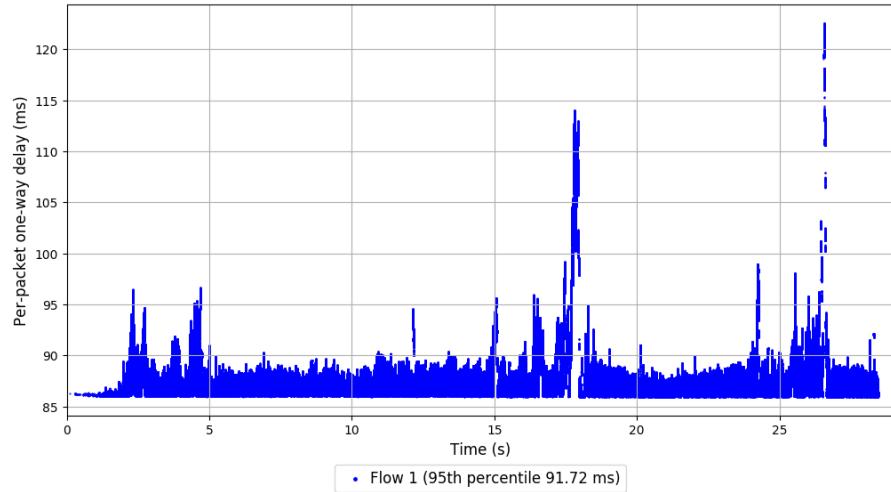
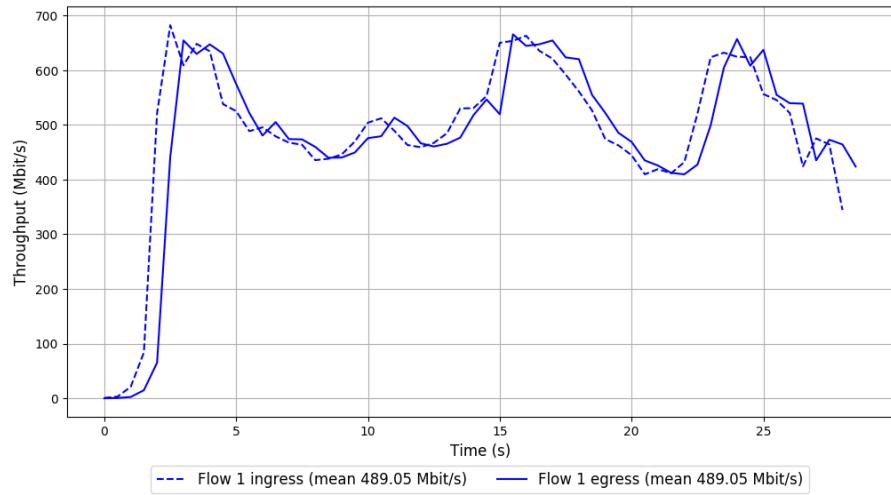


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-02-11 12:35:13
End at: 2019-02-11 12:35:43
Local clock offset: 4.272 ms
Remote clock offset: 7.298 ms

# Below is generated by plot.py at 2019-02-11 15:00:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 489.05 Mbit/s
95th percentile per-packet one-way delay: 91.721 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 489.05 Mbit/s
95th percentile per-packet one-way delay: 91.721 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-MusesD — Data Link

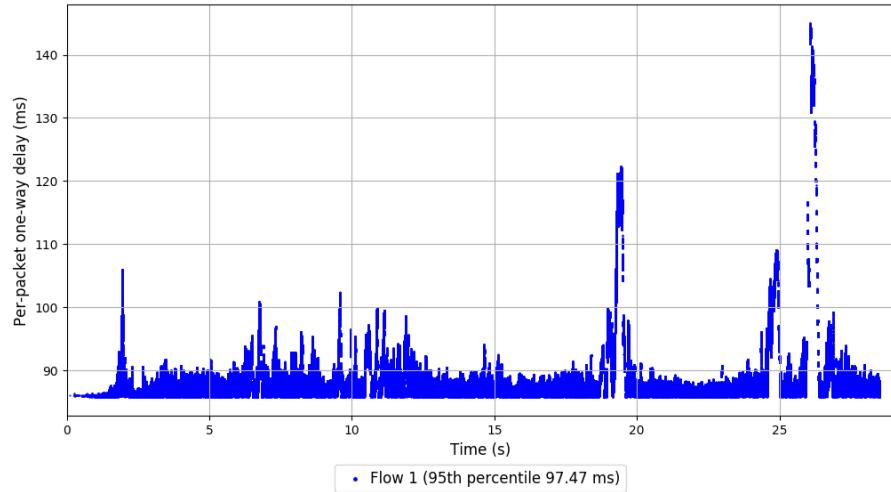
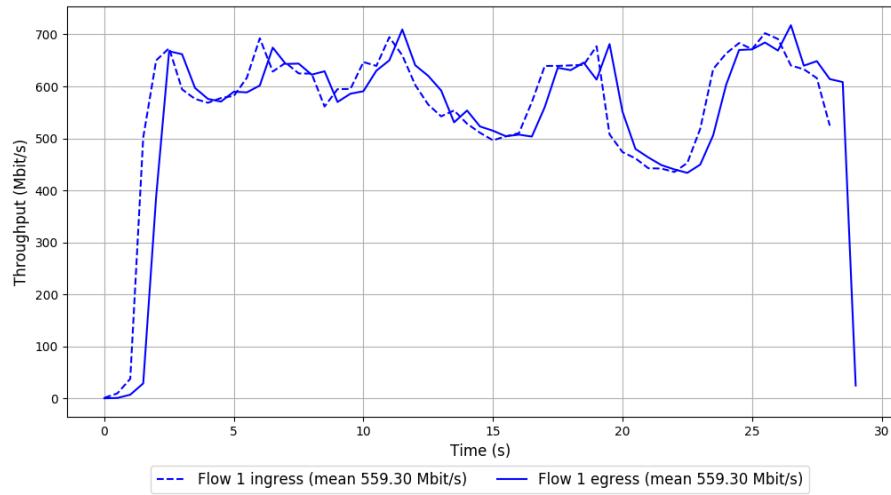


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-02-11 13:07:56
End at: 2019-02-11 13:08:26
Local clock offset: 1.9 ms
Remote clock offset: 2.235 ms

# Below is generated by plot.py at 2019-02-11 15:02:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 559.30 Mbit/s
95th percentile per-packet one-way delay: 97.474 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 559.30 Mbit/s
95th percentile per-packet one-way delay: 97.474 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesD — Data Link

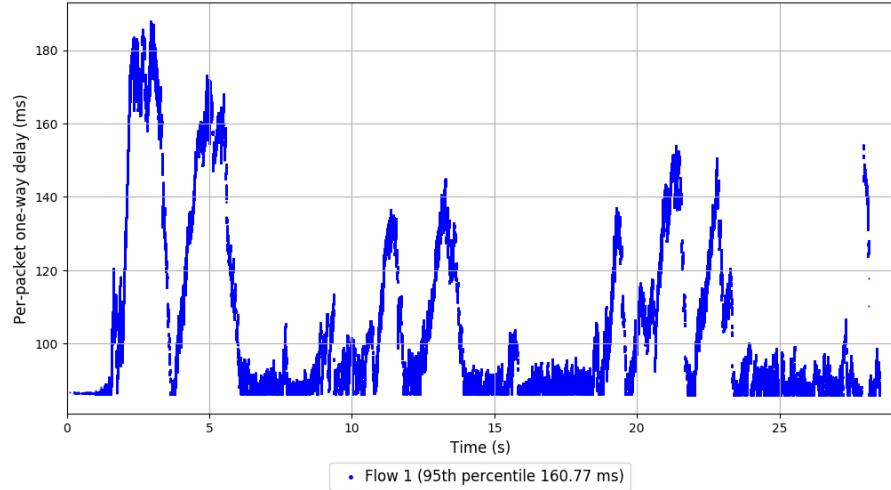
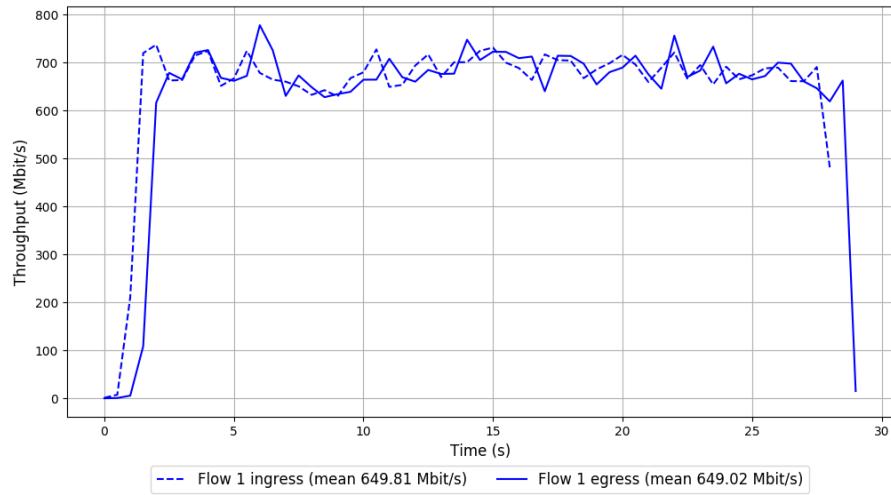


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-02-11 10:50:15
End at: 2019-02-11 10:50:45
Local clock offset: 16.474 ms
Remote clock offset: 16.895 ms

# Below is generated by plot.py at 2019-02-11 15:09:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 649.02 Mbit/s
95th percentile per-packet one-way delay: 160.772 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 649.02 Mbit/s
95th percentile per-packet one-way delay: 160.772 ms
Loss rate: 0.12%
```

Run 1: Report of Indigo-MusesT — Data Link

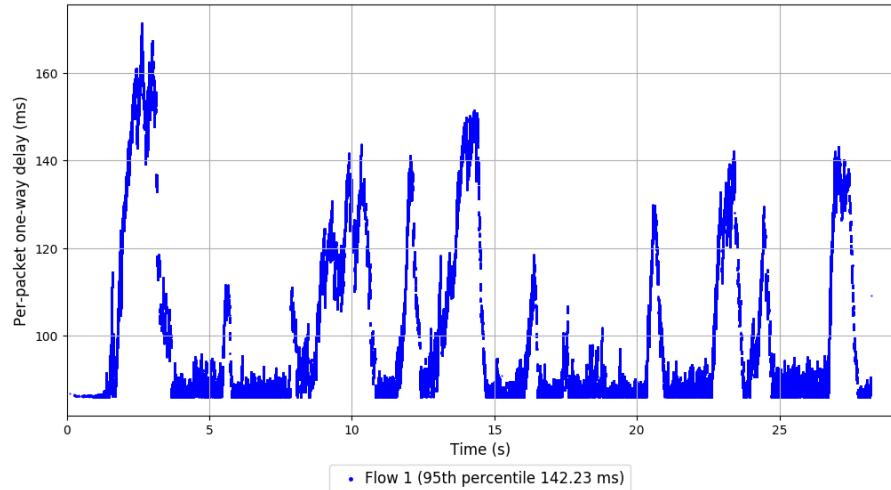
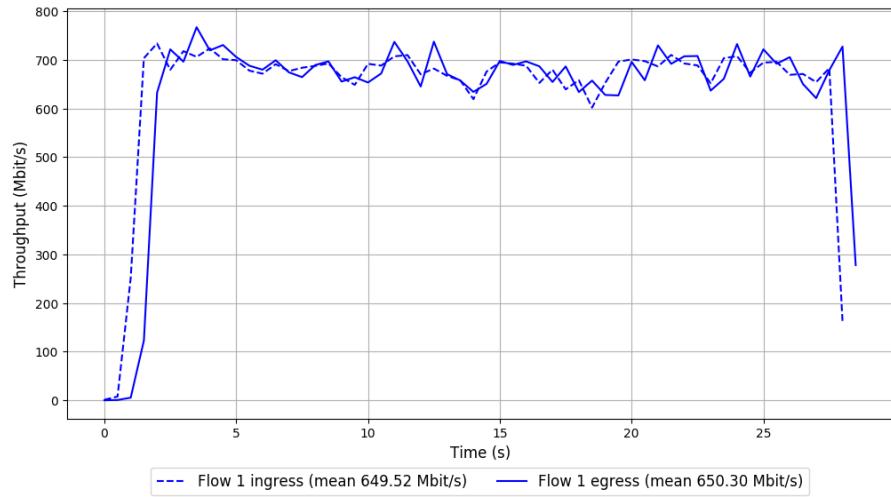


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-02-11 11:22:51
End at: 2019-02-11 11:23:21
Local clock offset: 21.606 ms
Remote clock offset: 22.043 ms

# Below is generated by plot.py at 2019-02-11 15:11:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 650.30 Mbit/s
95th percentile per-packet one-way delay: 142.226 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 650.30 Mbit/s
95th percentile per-packet one-way delay: 142.226 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-MusesT — Data Link

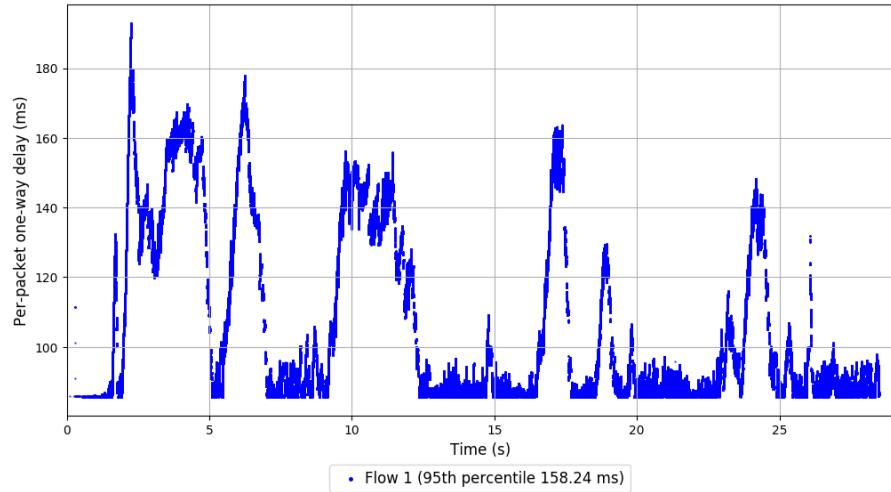
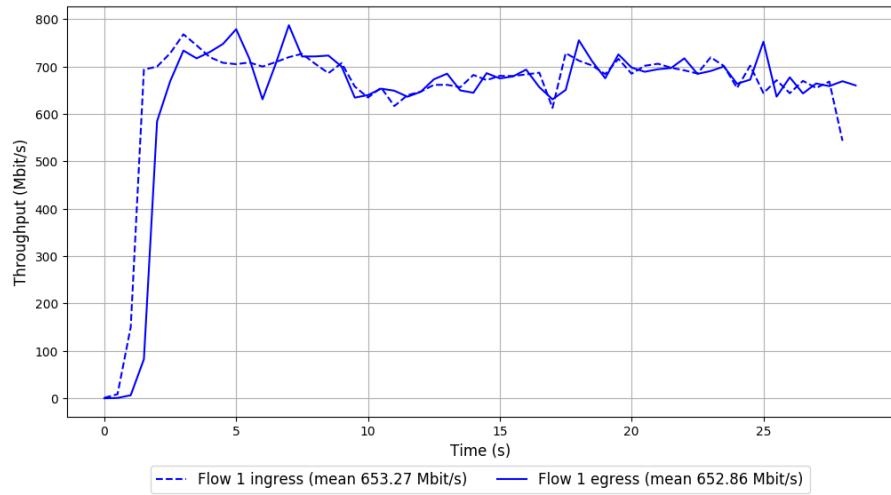


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-02-11 11:55:00
End at: 2019-02-11 11:55:30
Local clock offset: 16.2 ms
Remote clock offset: 16.196 ms

# Below is generated by plot.py at 2019-02-11 15:11:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 652.86 Mbit/s
95th percentile per-packet one-way delay: 158.242 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 652.86 Mbit/s
95th percentile per-packet one-way delay: 158.242 ms
Loss rate: 0.06%
```

Run 3: Report of Indigo-MusesT — Data Link

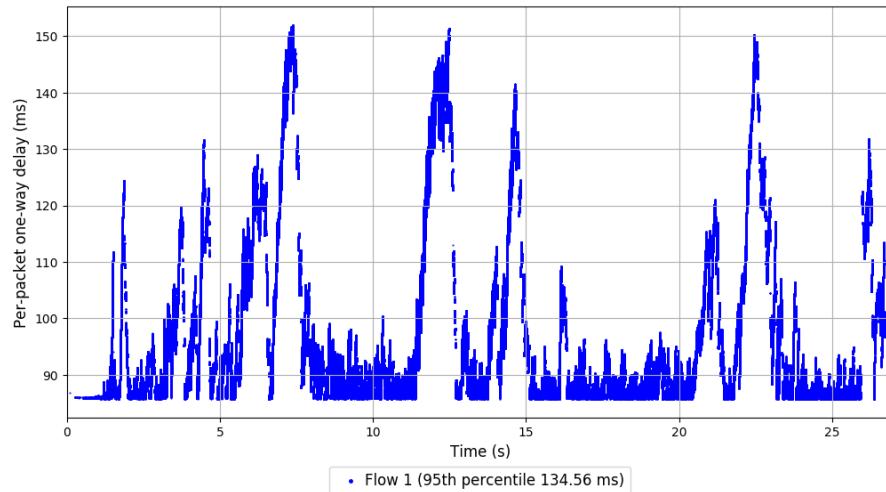
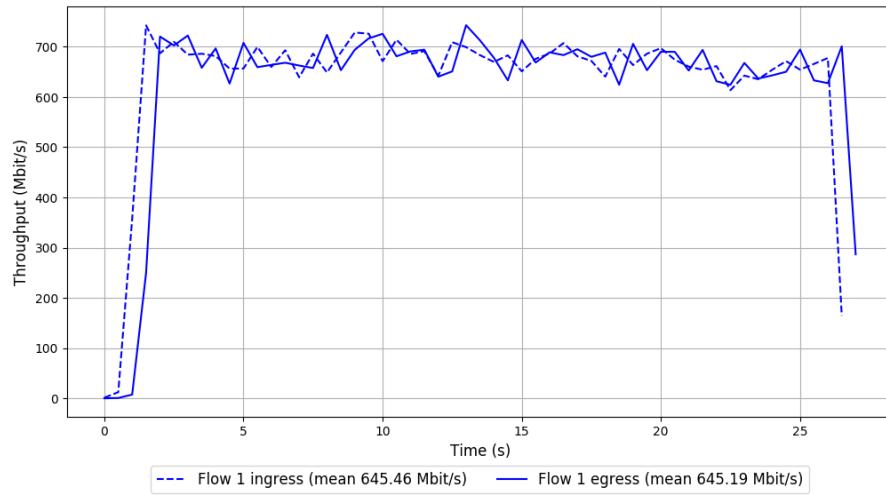


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-02-11 12:27:35
End at: 2019-02-11 12:28:05
Local clock offset: 6.649 ms
Remote clock offset: 8.353 ms

# Below is generated by plot.py at 2019-02-11 15:11:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 645.19 Mbit/s
95th percentile per-packet one-way delay: 134.561 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 645.19 Mbit/s
95th percentile per-packet one-way delay: 134.561 ms
Loss rate: 0.04%
```

Run 4: Report of Indigo-MusesT — Data Link

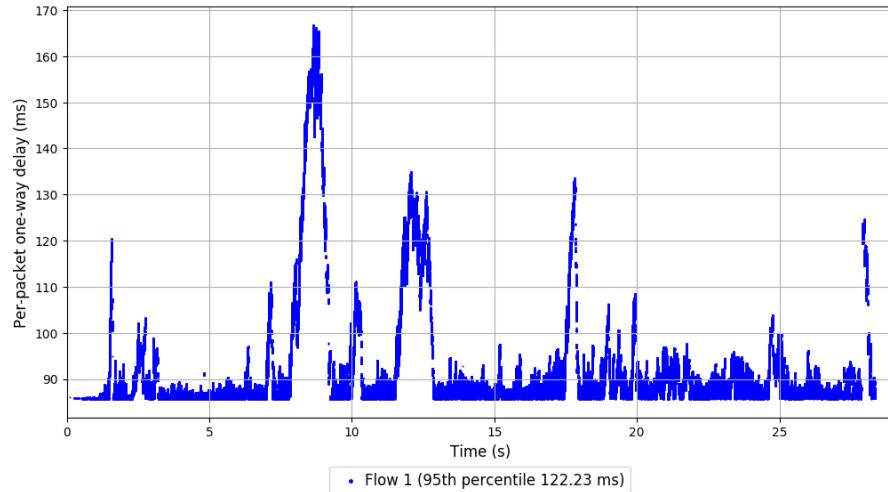
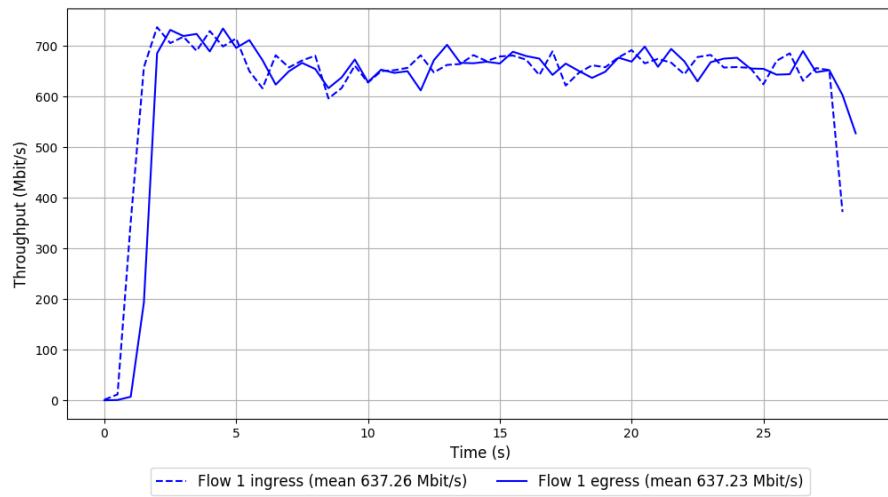


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-02-11 13:00:22
End at: 2019-02-11 13:00:52
Local clock offset: 2.127 ms
Remote clock offset: 3.513 ms

# Below is generated by plot.py at 2019-02-11 15:13:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 637.23 Mbit/s
95th percentile per-packet one-way delay: 122.227 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 637.23 Mbit/s
95th percentile per-packet one-way delay: 122.227 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesT — Data Link

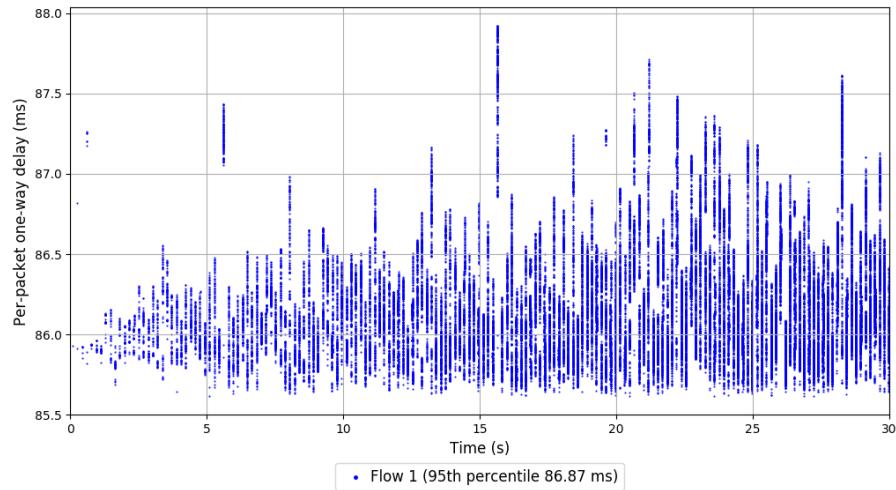
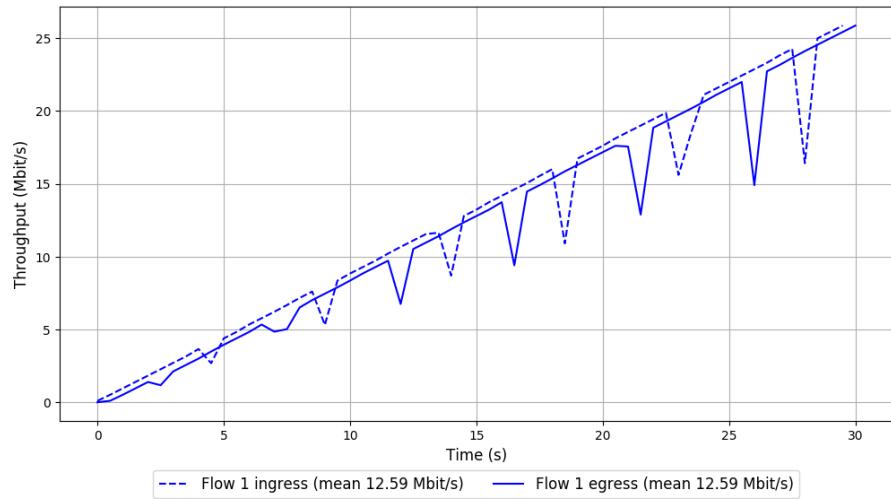


```
Run 1: Statistics of LEDBAT

Start at: 2019-02-11 11:02:50
End at: 2019-02-11 11:03:20
Local clock offset: 19.583 ms
Remote clock offset: 19.611 ms

# Below is generated by plot.py at 2019-02-11 15:13:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 86.866 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 86.866 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

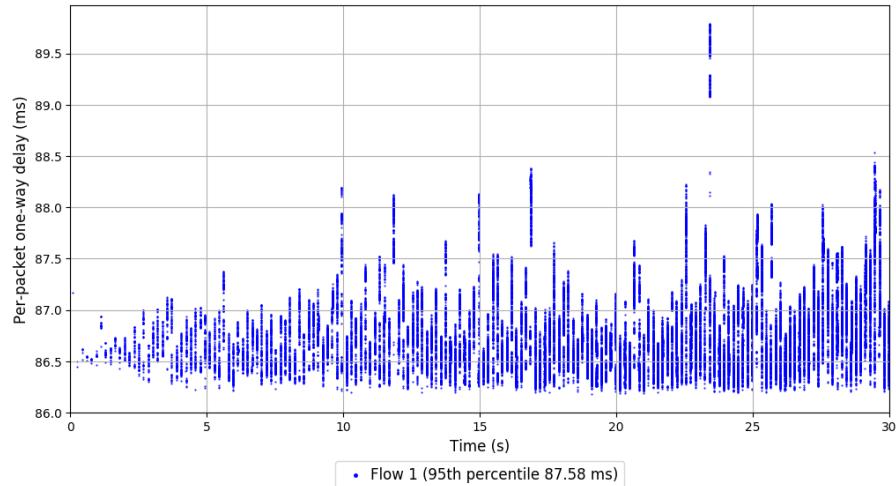
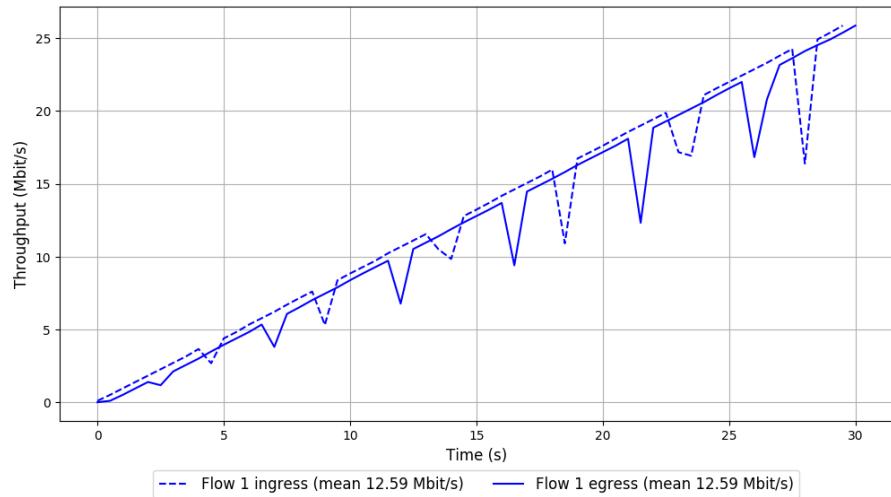


Run 2: Statistics of LEDBAT

```
Start at: 2019-02-11 11:35:33
End at: 2019-02-11 11:36:03
Local clock offset: 32.565 ms
Remote clock offset: 33.164 ms

# Below is generated by plot.py at 2019-02-11 15:13:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 87.585 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 87.585 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link

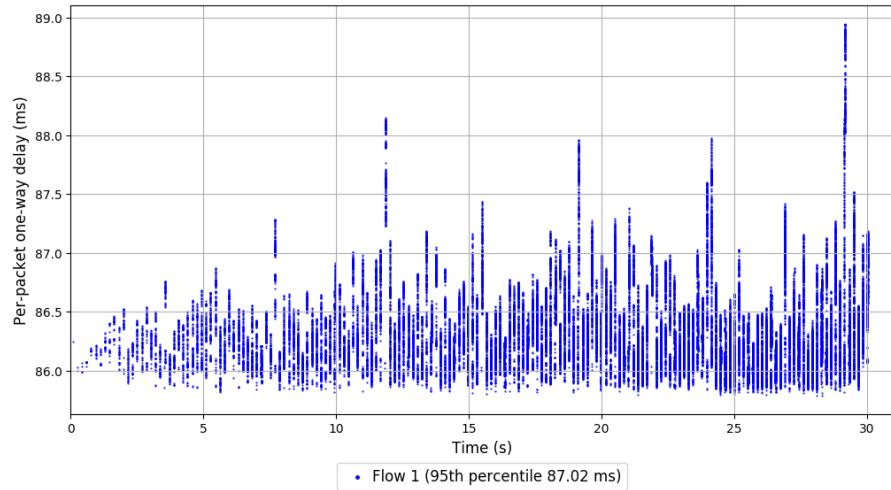
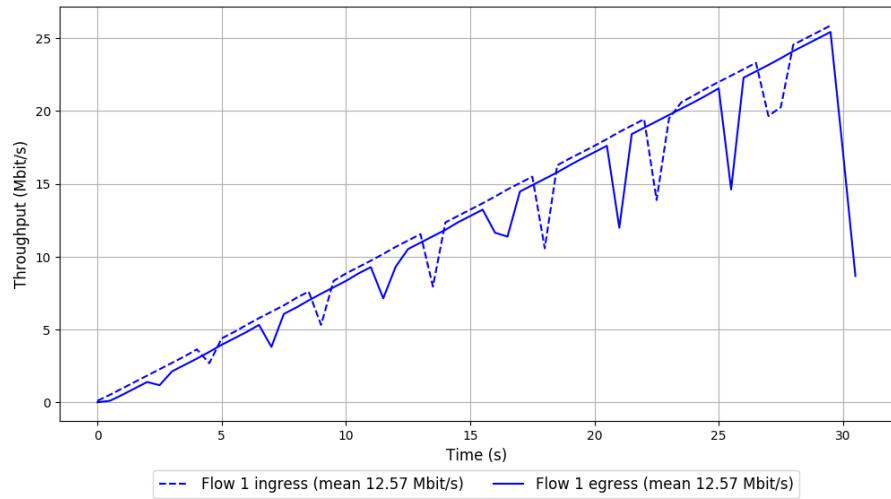


Run 3: Statistics of LEDBAT

```
Start at: 2019-02-11 12:07:22
End at: 2019-02-11 12:07:52
Local clock offset: 16.337 ms
Remote clock offset: 16.62 ms

# Below is generated by plot.py at 2019-02-11 15:13:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.57 Mbit/s
95th percentile per-packet one-way delay: 87.021 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.57 Mbit/s
95th percentile per-packet one-way delay: 87.021 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link

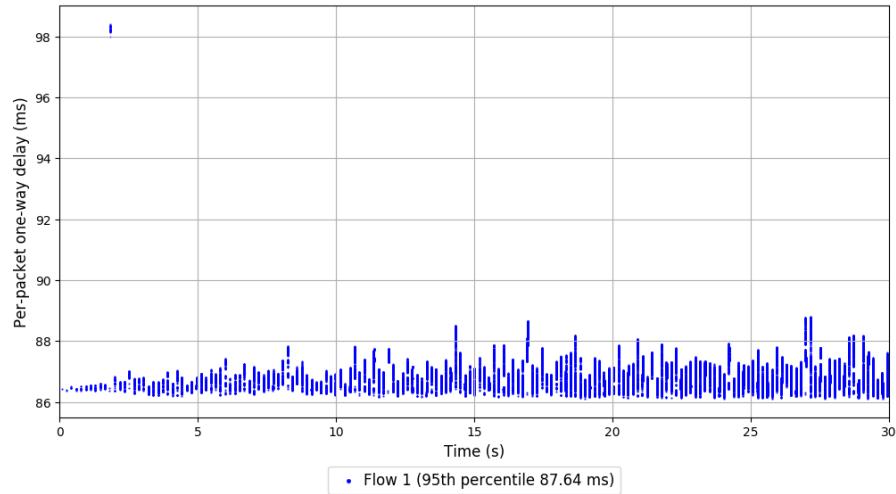
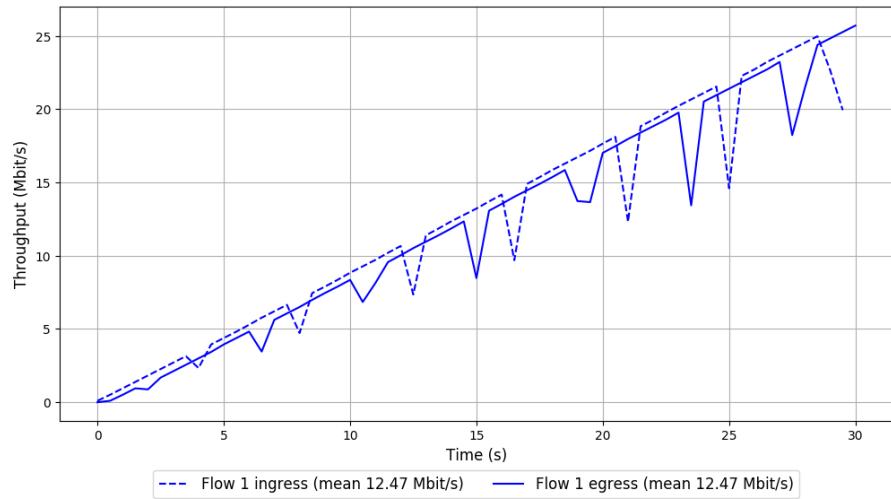


Run 4: Statistics of LEDBAT

```
Start at: 2019-02-11 12:39:58
End at: 2019-02-11 12:40:28
Local clock offset: 4.184 ms
Remote clock offset: 7.711 ms

# Below is generated by plot.py at 2019-02-11 15:13:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.47 Mbit/s
95th percentile per-packet one-way delay: 87.643 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.47 Mbit/s
95th percentile per-packet one-way delay: 87.643 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link

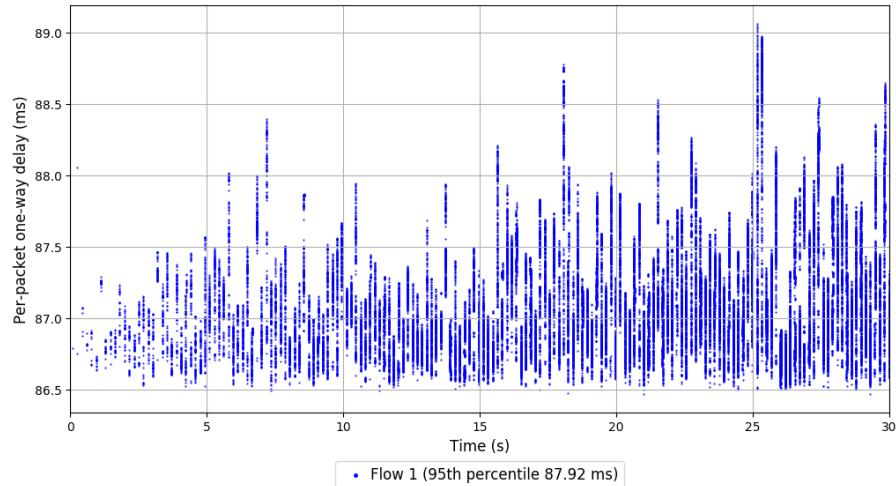
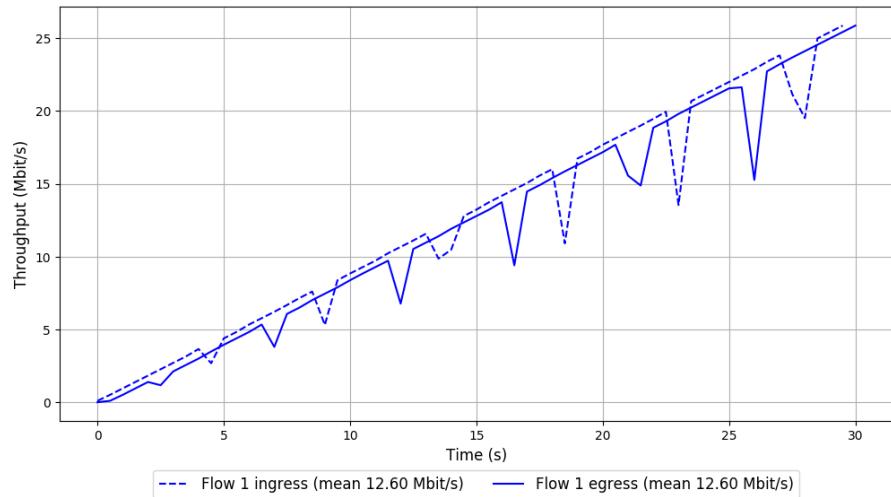


Run 5: Statistics of LEDBAT

```
Start at: 2019-02-11 13:12:45
End at: 2019-02-11 13:13:15
Local clock offset: 1.051 ms
Remote clock offset: 1.989 ms

# Below is generated by plot.py at 2019-02-11 15:13:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.60 Mbit/s
95th percentile per-packet one-way delay: 87.923 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.60 Mbit/s
95th percentile per-packet one-way delay: 87.923 ms
Loss rate: 0.00%
```

Run 5: Report of LEDBAT — Data Link

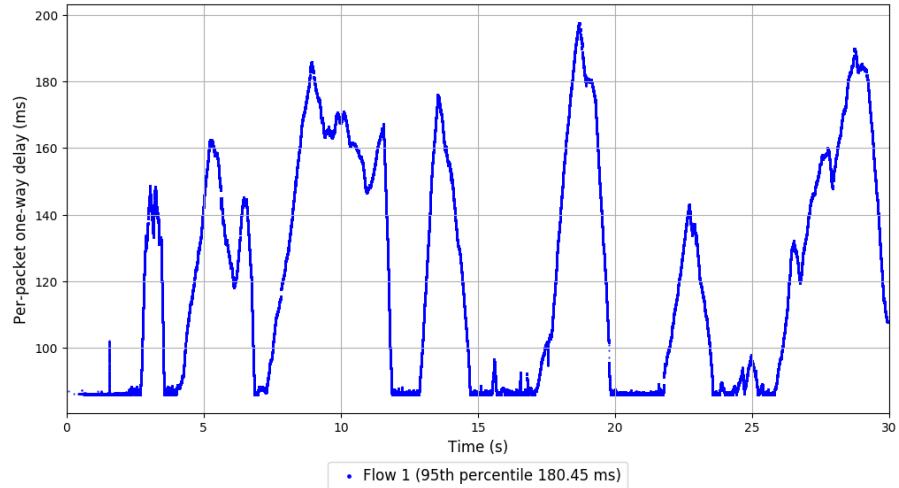
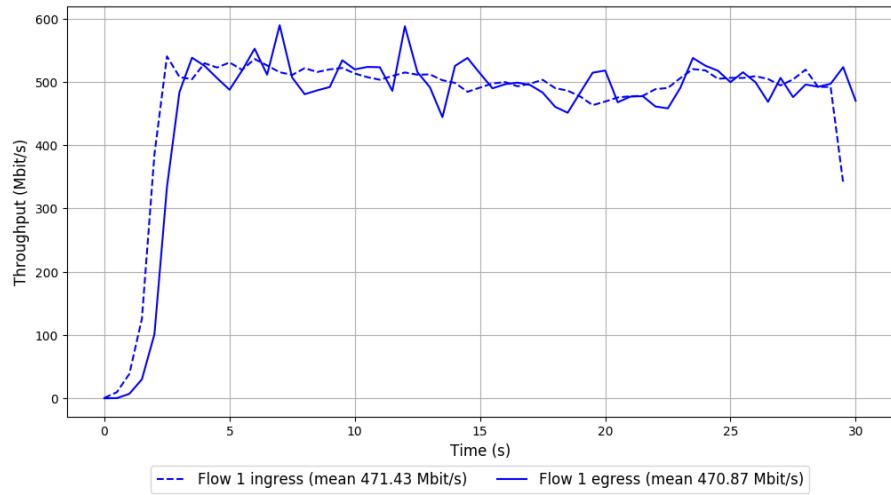


Run 1: Statistics of PCC-Allegro

```
Start at: 2019-02-11 10:54:45
End at: 2019-02-11 10:55:15
Local clock offset: 12.814 ms
Remote clock offset: 13.222 ms

# Below is generated by plot.py at 2019-02-11 15:23:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 470.87 Mbit/s
95th percentile per-packet one-way delay: 180.450 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 470.87 Mbit/s
95th percentile per-packet one-way delay: 180.450 ms
Loss rate: 0.12%
```

Run 1: Report of PCC-Allegro — Data Link

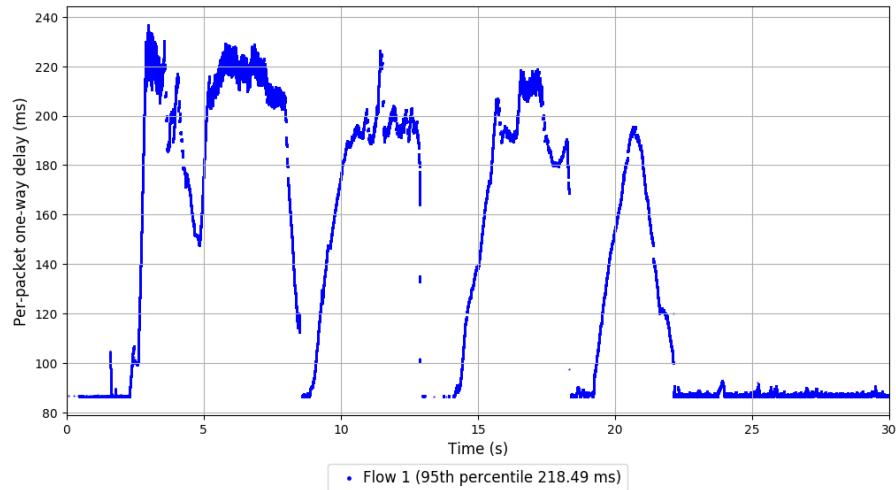
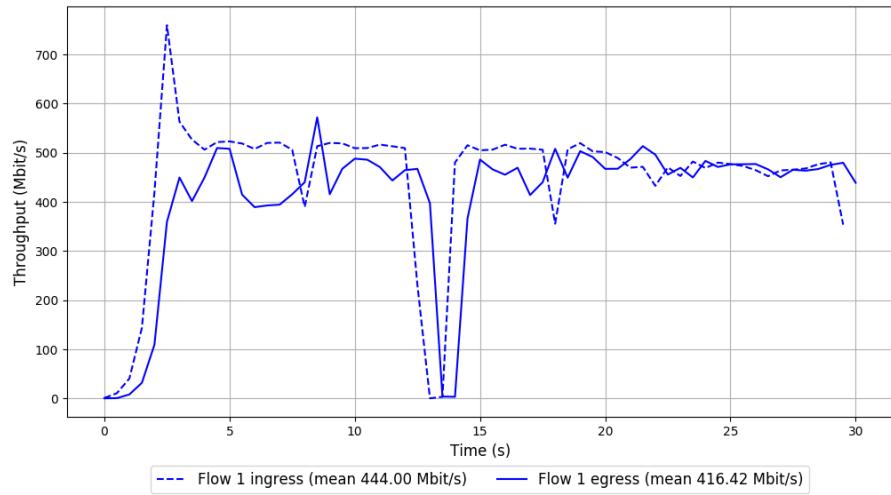


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-02-11 11:27:34
End at: 2019-02-11 11:28:04
Local clock offset: 24.745 ms
Remote clock offset: 25.408 ms

# Below is generated by plot.py at 2019-02-11 15:23:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 416.42 Mbit/s
95th percentile per-packet one-way delay: 218.493 ms
Loss rate: 6.21%
-- Flow 1:
Average throughput: 416.42 Mbit/s
95th percentile per-packet one-way delay: 218.493 ms
Loss rate: 6.21%
```

Run 2: Report of PCC-Allegro — Data Link

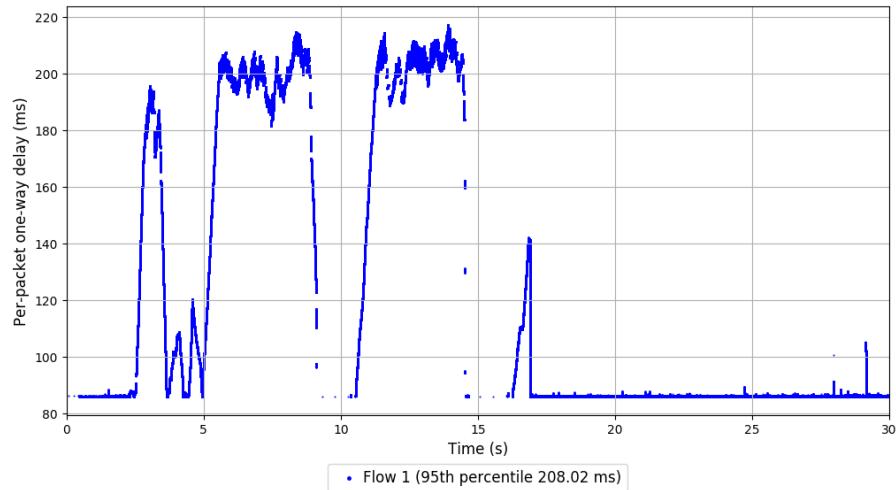
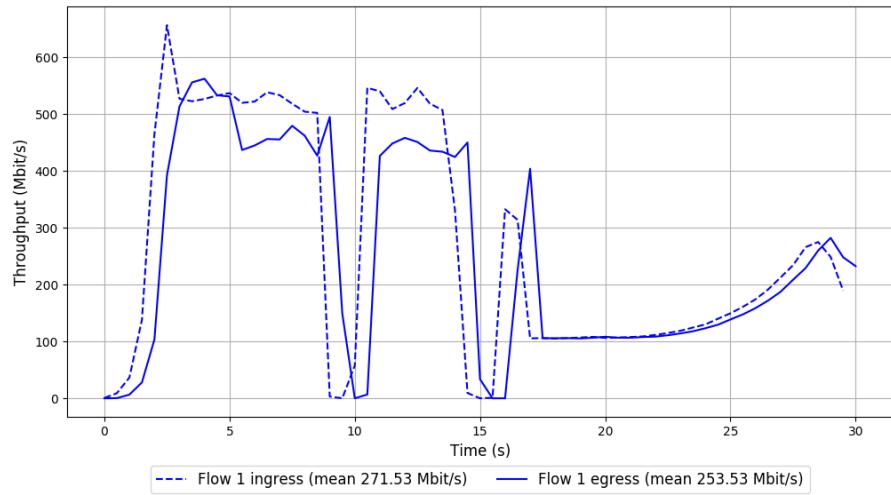


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-02-11 11:59:26
End at: 2019-02-11 11:59:56
Local clock offset: 14.948 ms
Remote clock offset: 15.18 ms

# Below is generated by plot.py at 2019-02-11 15:23:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 253.53 Mbit/s
95th percentile per-packet one-way delay: 208.019 ms
Loss rate: 6.63%
-- Flow 1:
Average throughput: 253.53 Mbit/s
95th percentile per-packet one-way delay: 208.019 ms
Loss rate: 6.63%
```

Run 3: Report of PCC-Allegro — Data Link

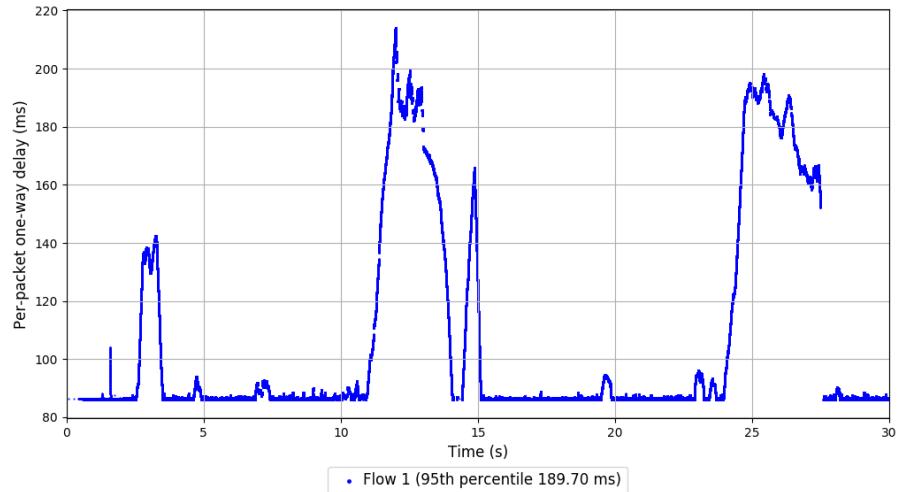
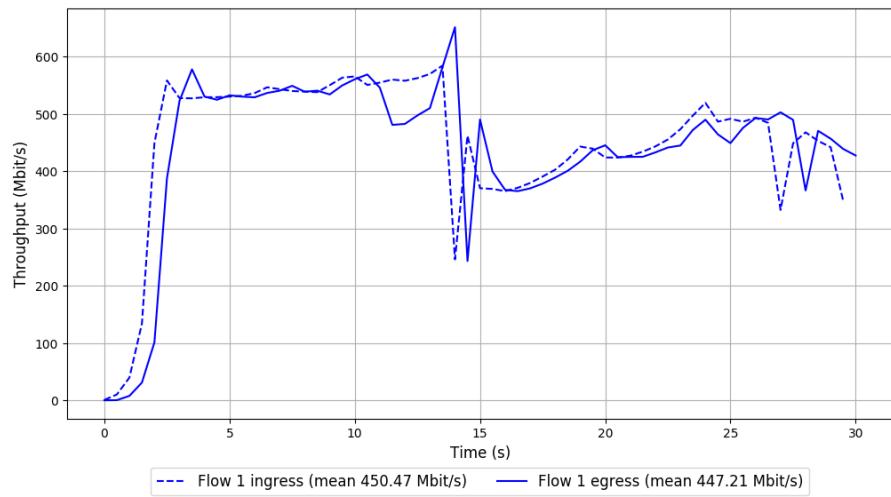


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-02-11 12:32:04
End at: 2019-02-11 12:32:34
Local clock offset: 4.694 ms
Remote clock offset: 7.428 ms

# Below is generated by plot.py at 2019-02-11 15:31:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 447.21 Mbit/s
95th percentile per-packet one-way delay: 189.698 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 447.21 Mbit/s
95th percentile per-packet one-way delay: 189.698 ms
Loss rate: 0.73%
```

Run 4: Report of PCC-Allegro — Data Link

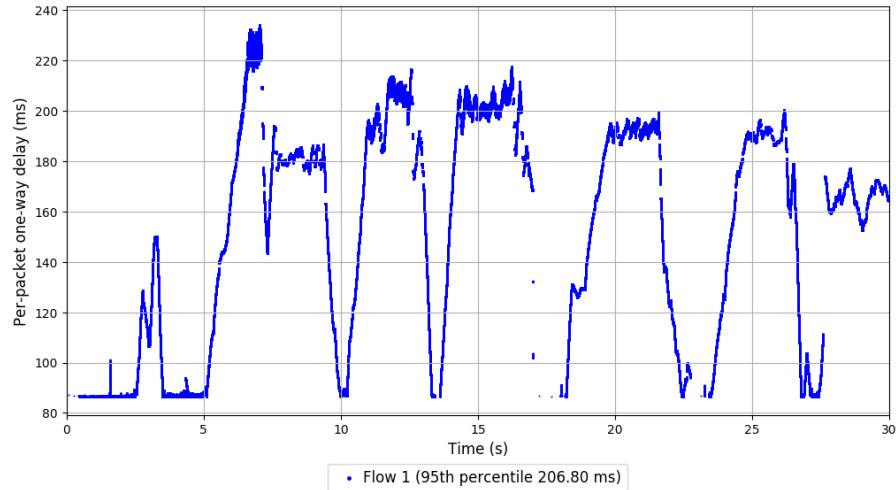
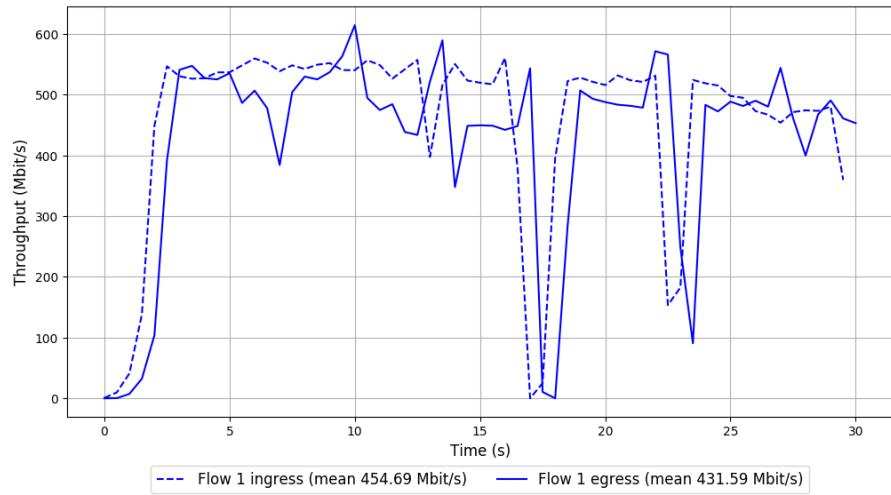


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-02-11 13:04:47
End at: 2019-02-11 13:05:17
Local clock offset: 1.288 ms
Remote clock offset: 2.608 ms

# Below is generated by plot.py at 2019-02-11 15:33:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 431.59 Mbit/s
95th percentile per-packet one-way delay: 206.796 ms
Loss rate: 5.08%
-- Flow 1:
Average throughput: 431.59 Mbit/s
95th percentile per-packet one-way delay: 206.796 ms
Loss rate: 5.08%
```

Run 5: Report of PCC-Allegro — Data Link

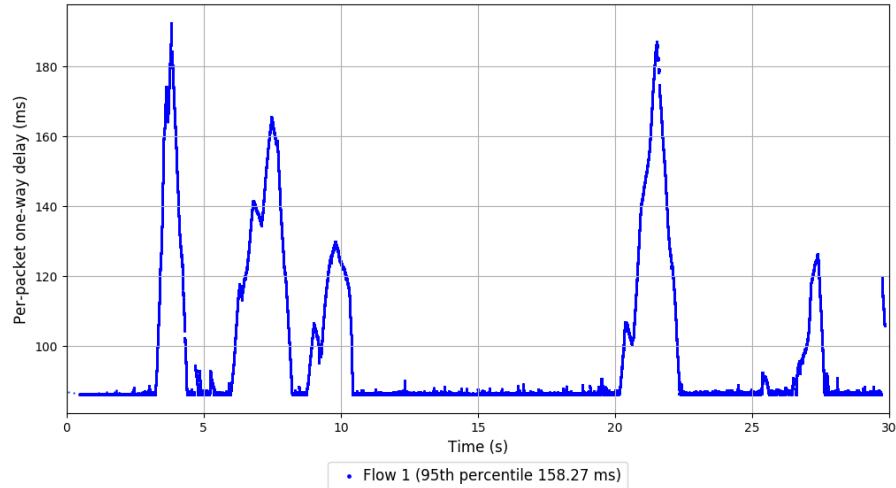
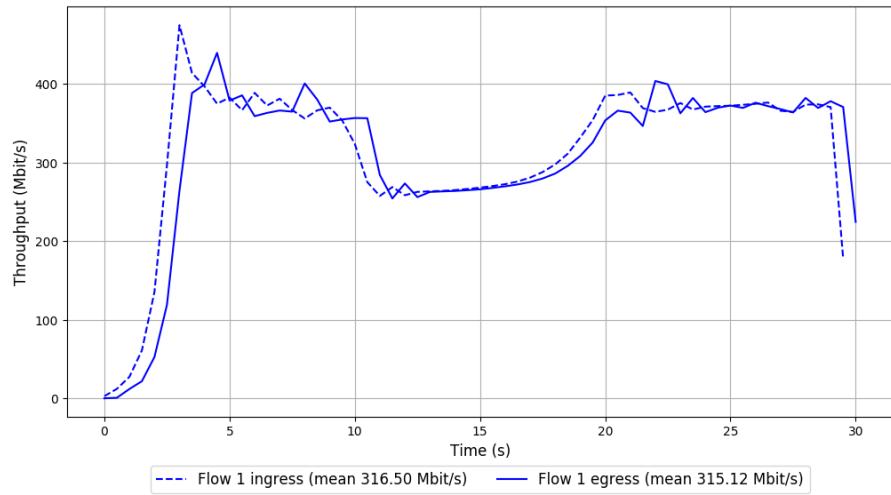


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-02-11 10:45:36
End at: 2019-02-11 10:46:06
Local clock offset: 9.556 ms
Remote clock offset: 9.394 ms

# Below is generated by plot.py at 2019-02-11 15:33:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 315.12 Mbit/s
95th percentile per-packet one-way delay: 158.266 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 315.12 Mbit/s
95th percentile per-packet one-way delay: 158.266 ms
Loss rate: 0.44%
```

Run 1: Report of PCC-Expr — Data Link

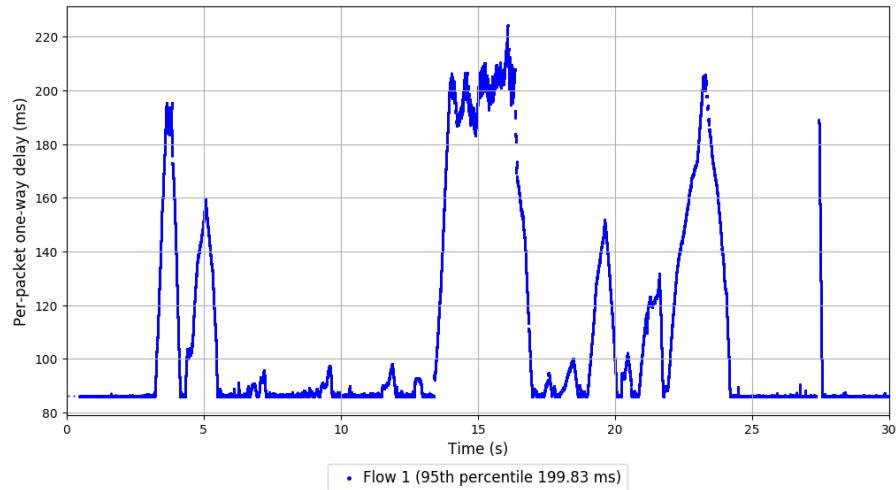
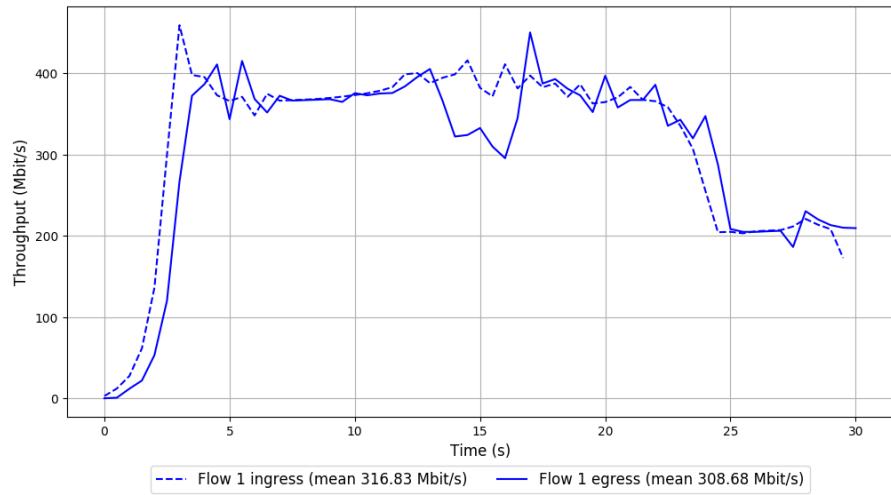


Run 2: Statistics of PCC-Expr

```
Start at: 2019-02-11 11:17:54
End at: 2019-02-11 11:18:24
Local clock offset: 19.52 ms
Remote clock offset: 19.862 ms

# Below is generated by plot.py at 2019-02-11 15:33:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 308.68 Mbit/s
95th percentile per-packet one-way delay: 199.826 ms
Loss rate: 2.57%
-- Flow 1:
Average throughput: 308.68 Mbit/s
95th percentile per-packet one-way delay: 199.826 ms
Loss rate: 2.57%
```

Run 2: Report of PCC-Expr — Data Link

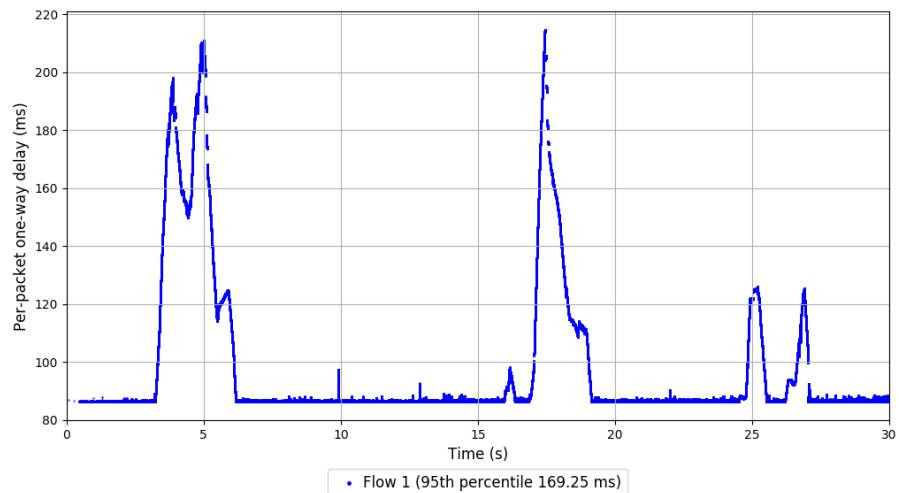
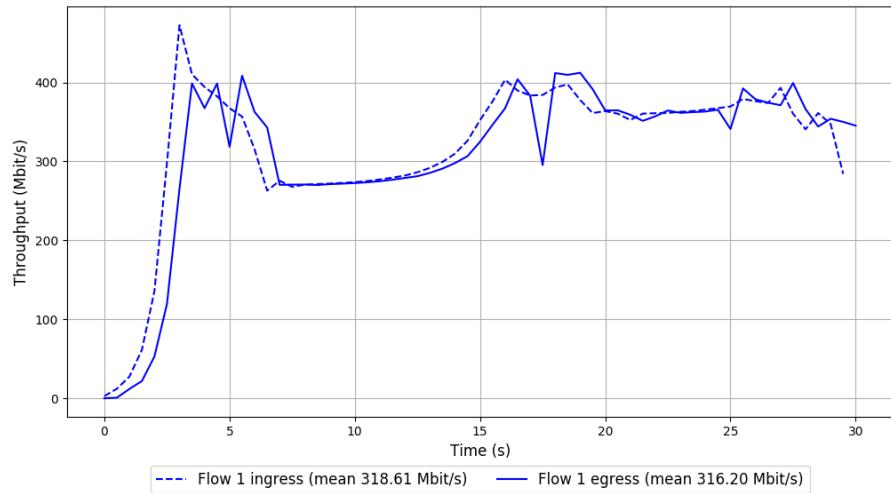


Run 3: Statistics of PCC-Expr

```
Start at: 2019-02-11 11:50:23
End at: 2019-02-11 11:50:53
Local clock offset: 19.449 ms
Remote clock offset: 19.904 ms

# Below is generated by plot.py at 2019-02-11 15:33:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 316.20 Mbit/s
95th percentile per-packet one-way delay: 169.246 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 316.20 Mbit/s
95th percentile per-packet one-way delay: 169.246 ms
Loss rate: 0.76%
```

Run 3: Report of PCC-Expr — Data Link

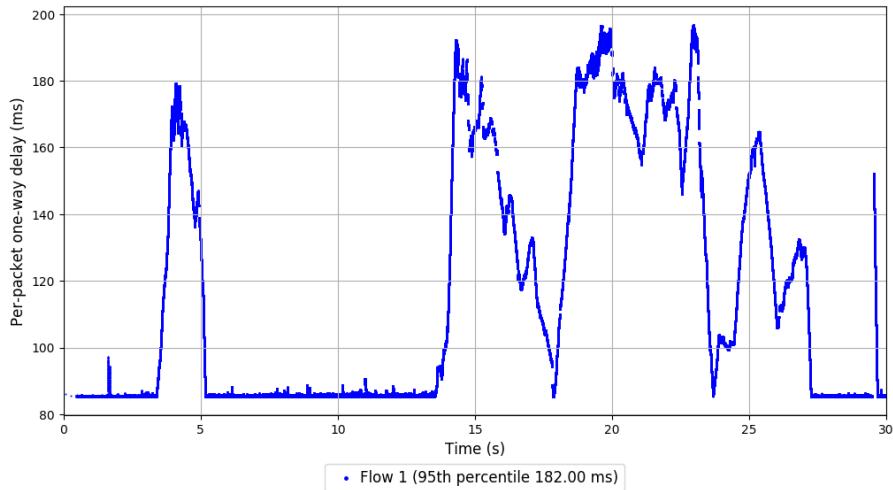
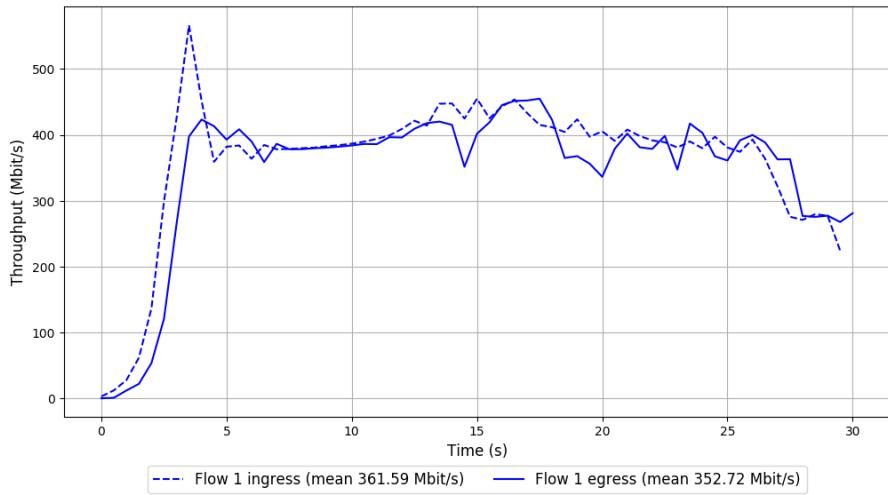


Run 4: Statistics of PCC-Expr

```
Start at: 2019-02-11 12:22:38
End at: 2019-02-11 12:23:08
Local clock offset: 10.589 ms
Remote clock offset: 11.29 ms

# Below is generated by plot.py at 2019-02-11 15:33:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 352.72 Mbit/s
95th percentile per-packet one-way delay: 182.003 ms
Loss rate: 2.46%
-- Flow 1:
Average throughput: 352.72 Mbit/s
95th percentile per-packet one-way delay: 182.003 ms
Loss rate: 2.46%
```

Run 4: Report of PCC-Expr — Data Link

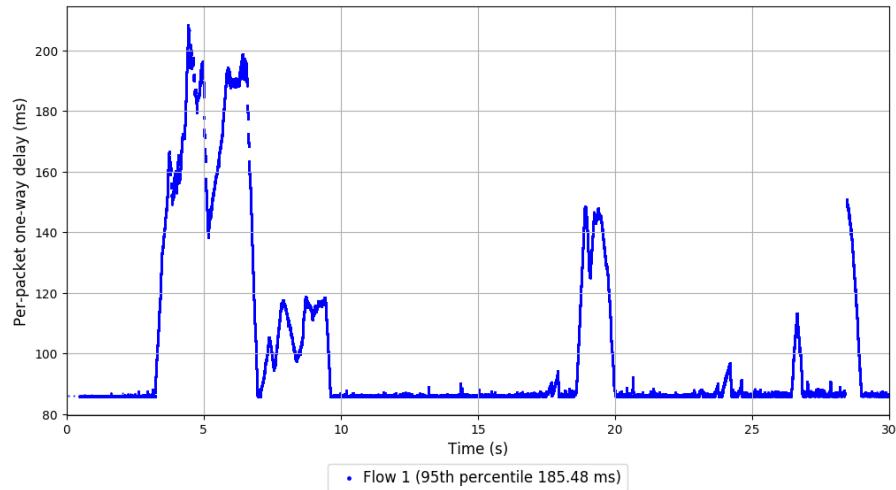
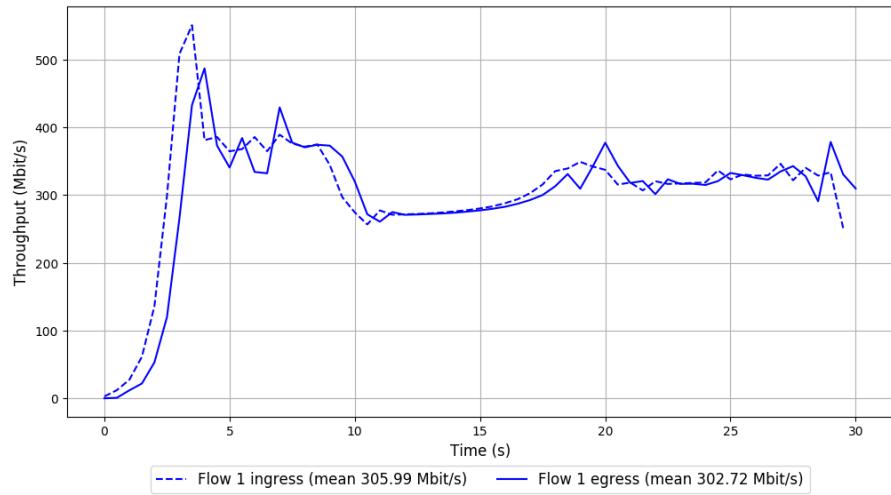


Run 5: Statistics of PCC-Expr

```
Start at: 2019-02-11 12:55:41
End at: 2019-02-11 12:56:11
Local clock offset: 2.786 ms
Remote clock offset: 5.407 ms

# Below is generated by plot.py at 2019-02-11 15:35:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 302.72 Mbit/s
95th percentile per-packet one-way delay: 185.484 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 302.72 Mbit/s
95th percentile per-packet one-way delay: 185.484 ms
Loss rate: 1.07%
```

Run 5: Report of PCC-Expr — Data Link

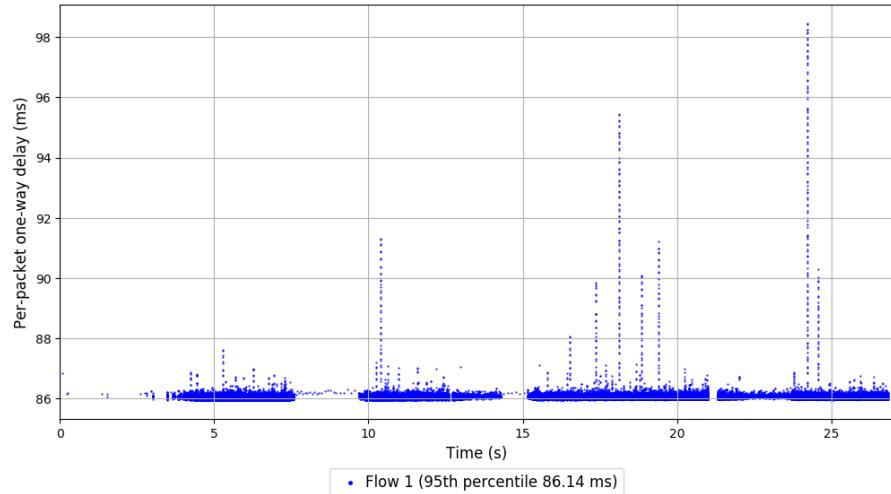
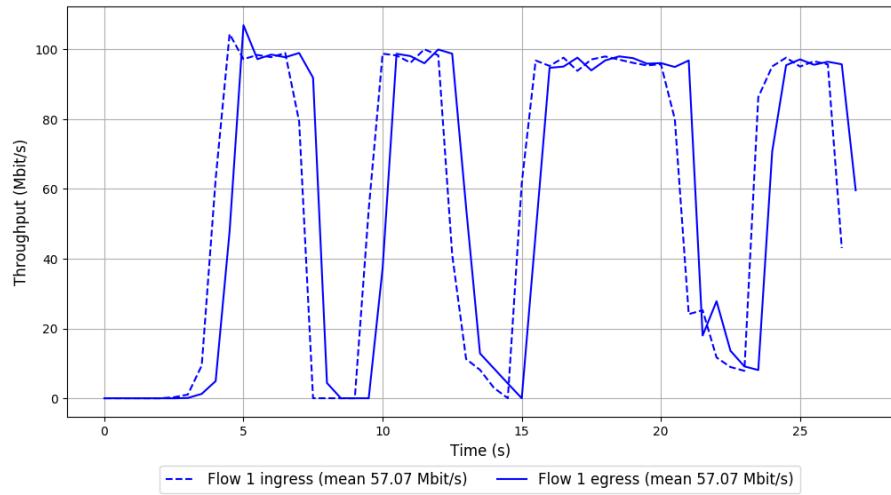


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-02-11 10:43:15
End at: 2019-02-11 10:43:46
Local clock offset: 9.803 ms
Remote clock offset: 9.64 ms

# Below is generated by plot.py at 2019-02-11 15:35:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.07 Mbit/s
95th percentile per-packet one-way delay: 86.140 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 57.07 Mbit/s
95th percentile per-packet one-way delay: 86.140 ms
Loss rate: 0.00%
```

Run 1: Report of QUIC Cubic — Data Link

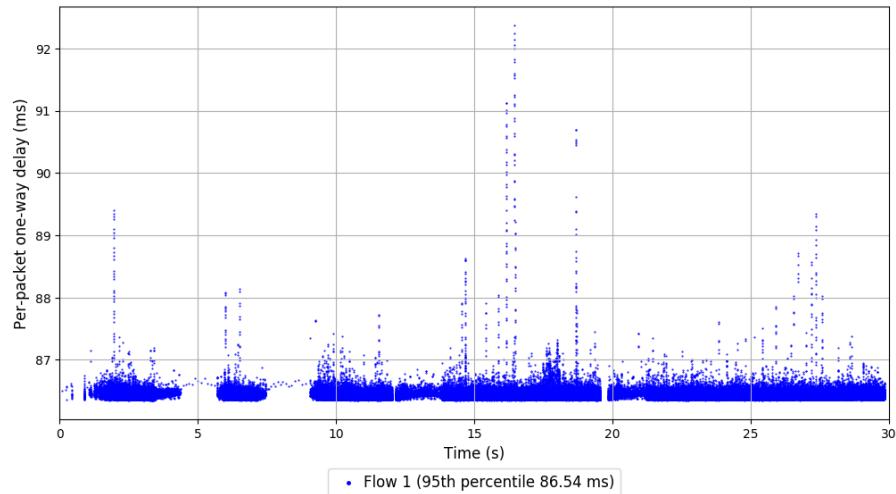
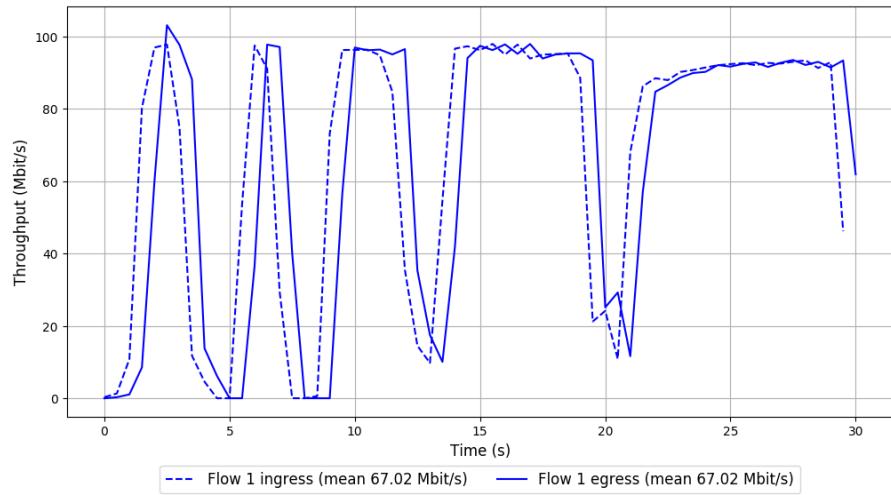


```
Run 2: Statistics of QUIC Cubic
```

```
Start at: 2019-02-11 11:15:31
End at: 2019-02-11 11:16:01
Local clock offset: 19.318 ms
Remote clock offset: 19.807 ms

# Below is generated by plot.py at 2019-02-11 15:35:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.02 Mbit/s
95th percentile per-packet one-way delay: 86.539 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 67.02 Mbit/s
95th percentile per-packet one-way delay: 86.539 ms
Loss rate: 0.00%
```

Run 2: Report of QUIC Cubic — Data Link

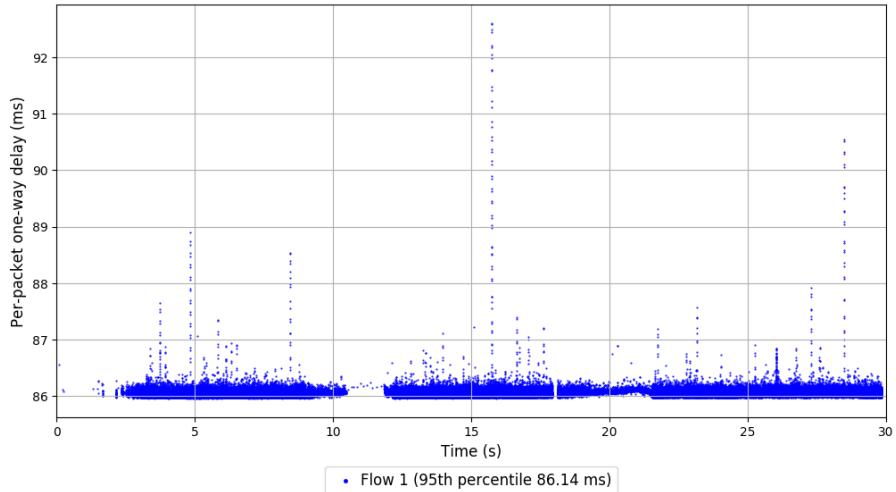
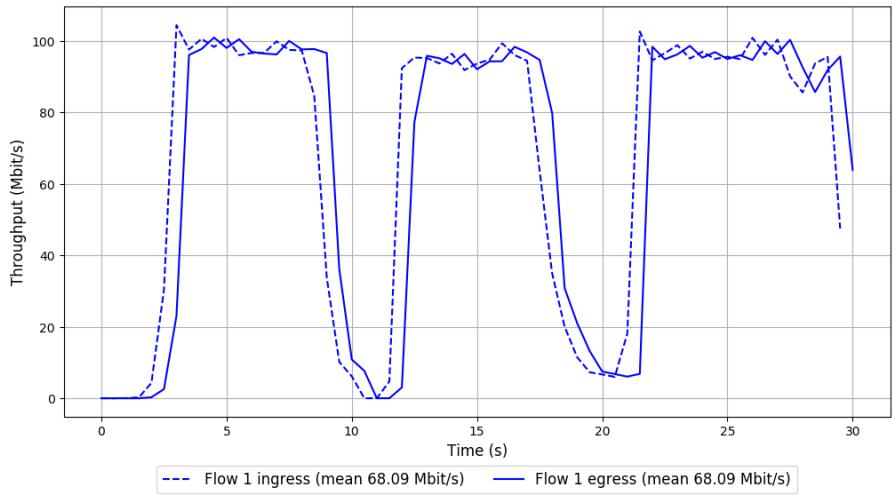


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-02-11 11:48:01
End at: 2019-02-11 11:48:31
Local clock offset: 23.052 ms
Remote clock offset: 23.4 ms

# Below is generated by plot.py at 2019-02-11 15:35:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.09 Mbit/s
95th percentile per-packet one-way delay: 86.135 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 68.09 Mbit/s
95th percentile per-packet one-way delay: 86.135 ms
Loss rate: 0.00%
```

Run 3: Report of QUIC Cubic — Data Link

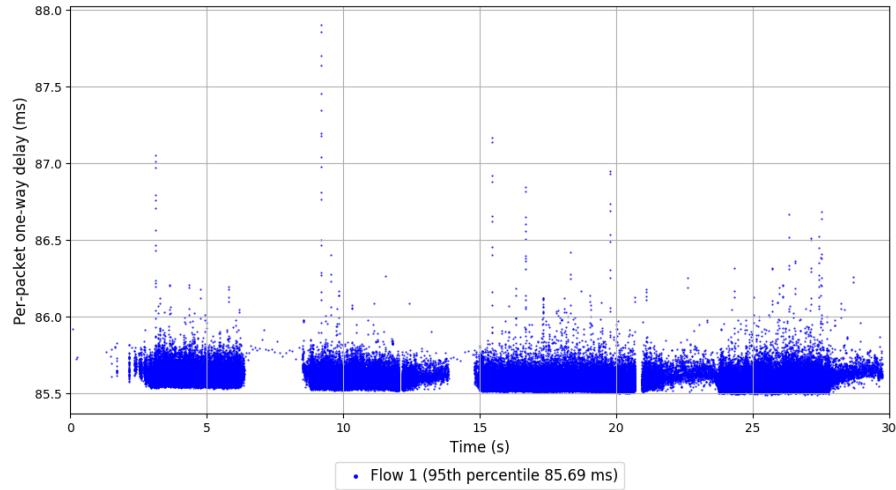
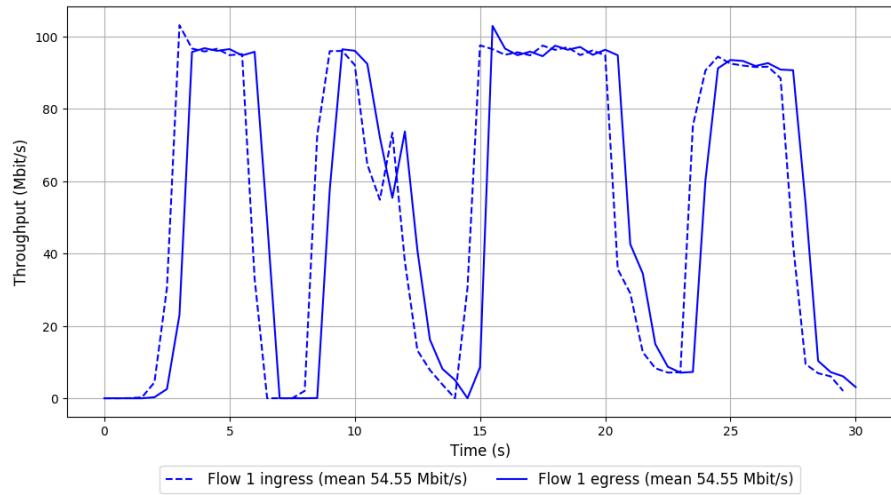


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-02-11 12:20:16
End at: 2019-02-11 12:20:46
Local clock offset: 13.471 ms
Remote clock offset: 13.7 ms

# Below is generated by plot.py at 2019-02-11 15:35:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.55 Mbit/s
95th percentile per-packet one-way delay: 85.693 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 54.55 Mbit/s
95th percentile per-packet one-way delay: 85.693 ms
Loss rate: 0.00%
```

Run 4: Report of QUIC Cubic — Data Link

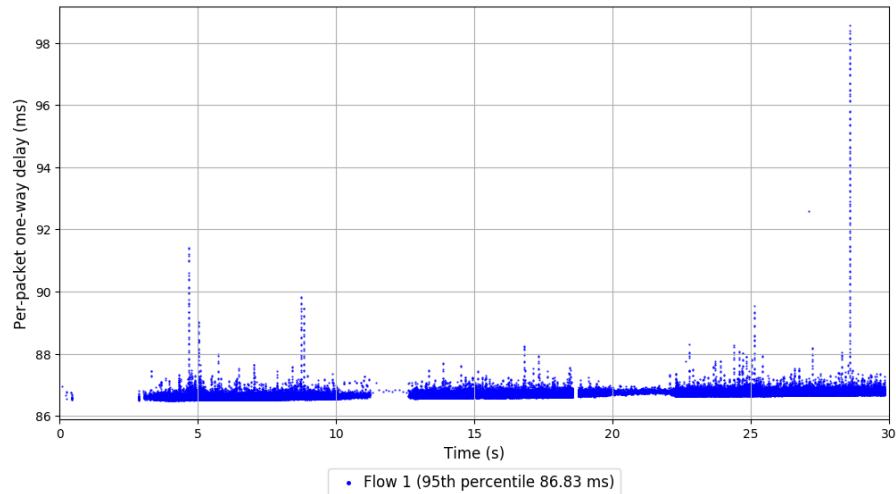
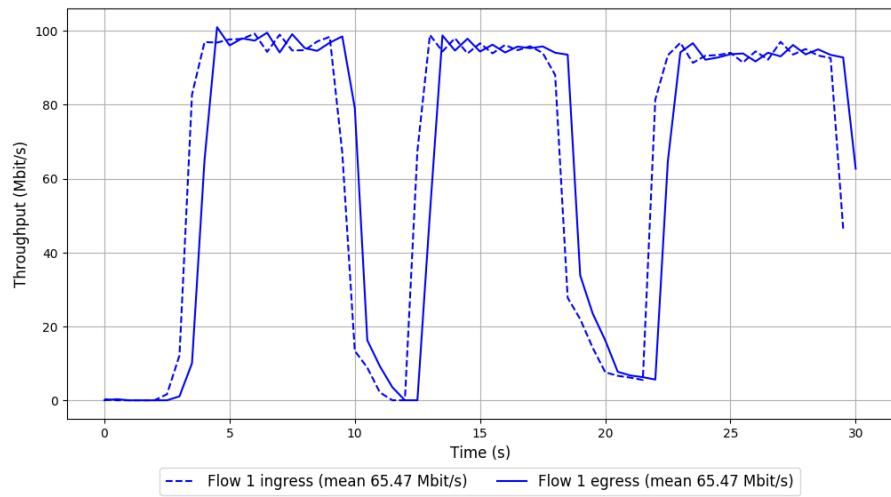


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-02-11 12:53:18
End at: 2019-02-11 12:53:48
Local clock offset: 2.993 ms
Remote clock offset: 6.89 ms

# Below is generated by plot.py at 2019-02-11 15:35:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.47 Mbit/s
95th percentile per-packet one-way delay: 86.826 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 65.47 Mbit/s
95th percentile per-packet one-way delay: 86.826 ms
Loss rate: 0.00%
```

Run 5: Report of QUIC Cubic — Data Link

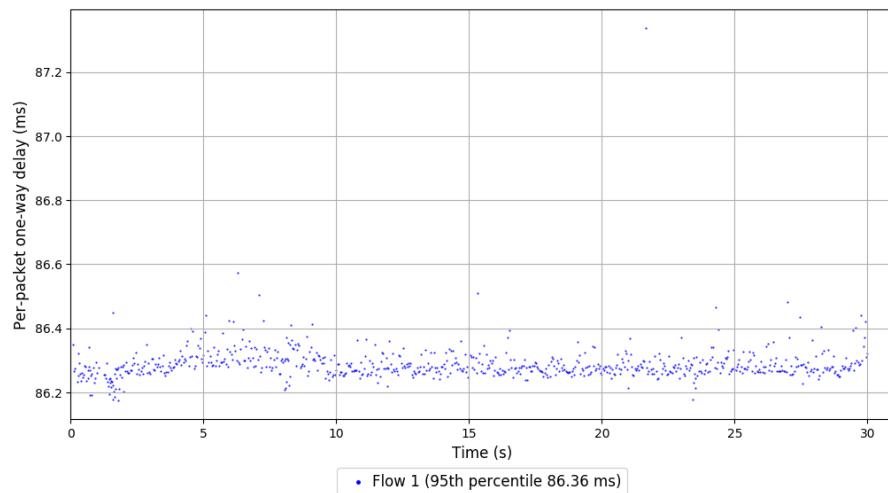
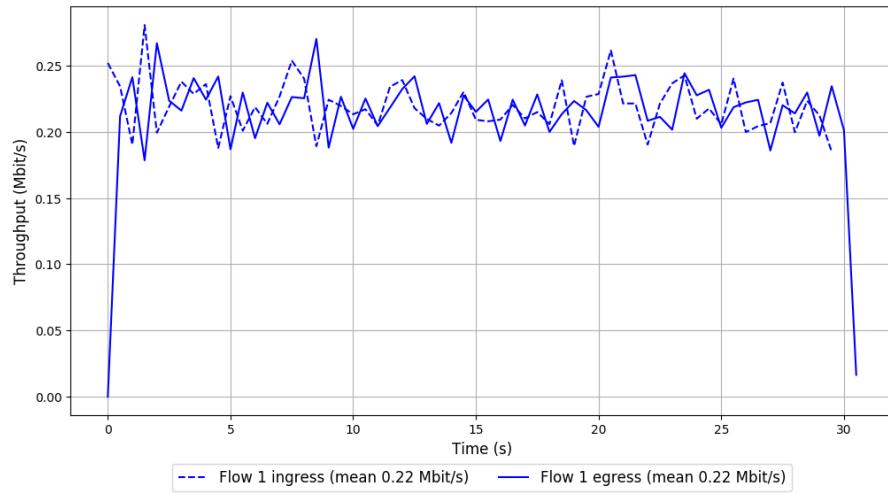


Run 1: Statistics of SCReAM

```
Start at: 2019-02-11 10:44:28
End at: 2019-02-11 10:44:58
Local clock offset: 8.553 ms
Remote clock offset: 8.764 ms

# Below is generated by plot.py at 2019-02-11 15:35:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.363 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.363 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

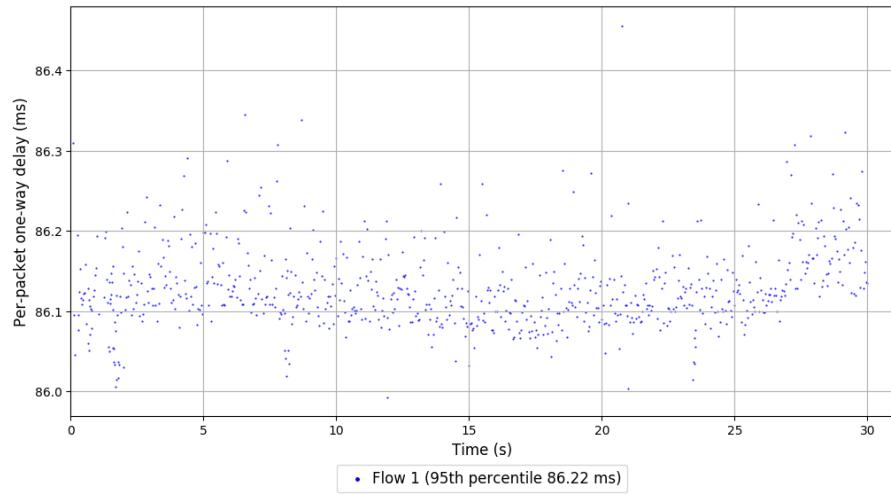
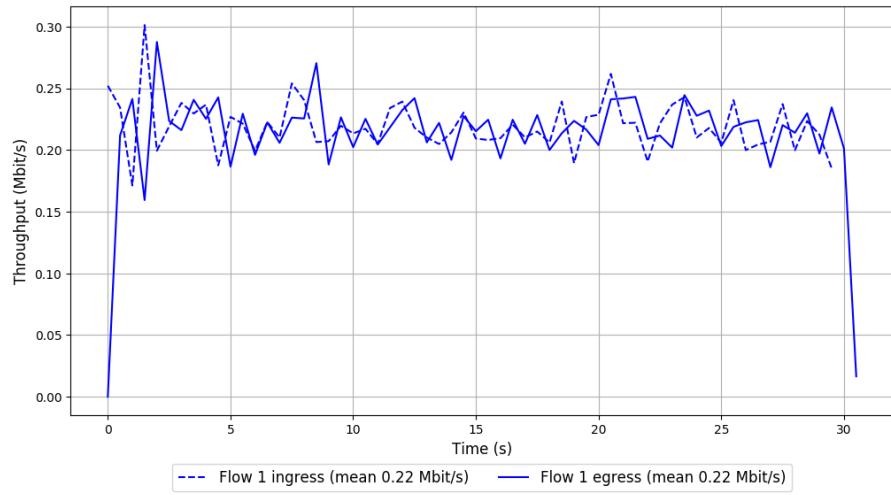


Run 2: Statistics of SCReAM

```
Start at: 2019-02-11 11:16:45
End at: 2019-02-11 11:17:15
Local clock offset: 19.445 ms
Remote clock offset: 19.761 ms

# Below is generated by plot.py at 2019-02-11 15:35:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.223 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.223 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

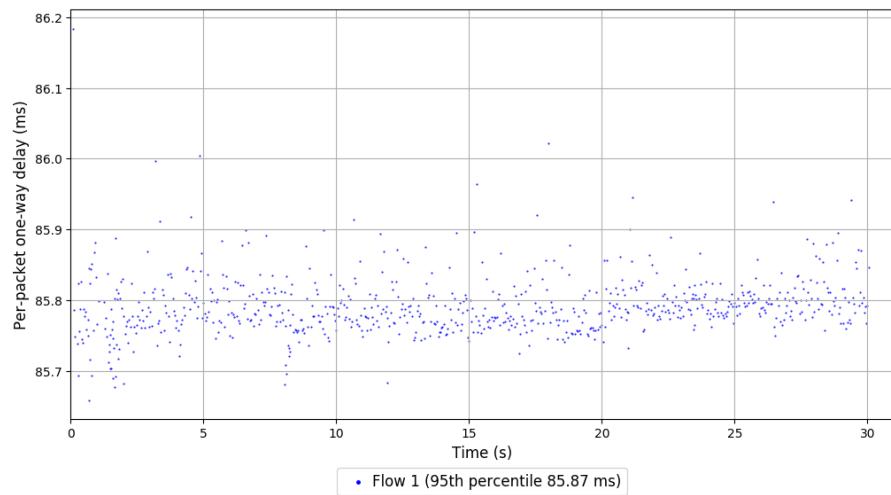
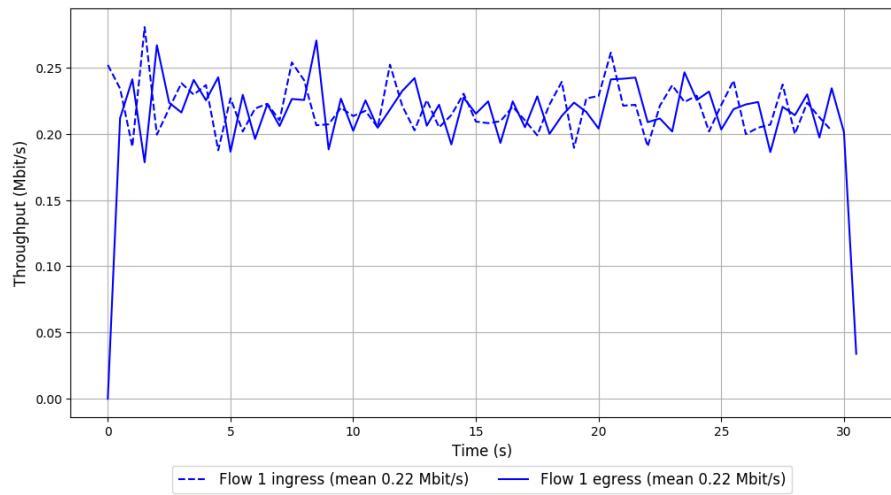


Run 3: Statistics of SCReAM

```
Start at: 2019-02-11 11:49:14
End at: 2019-02-11 11:49:44
Local clock offset: 21.347 ms
Remote clock offset: 21.306 ms

# Below is generated by plot.py at 2019-02-11 15:35:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.867 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.867 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

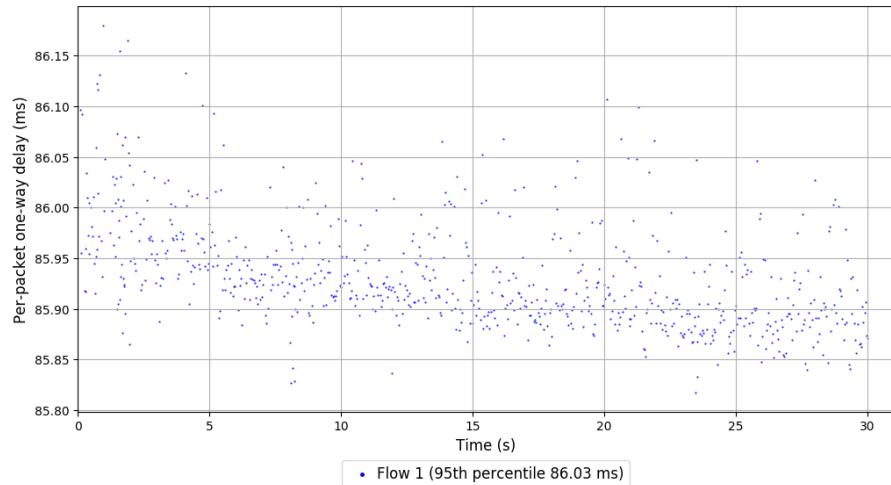
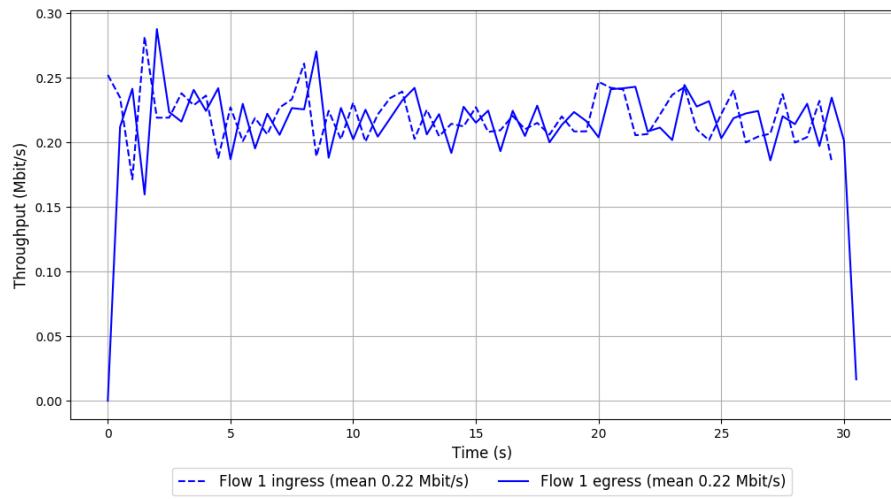


Run 4: Statistics of SCReAM

```
Start at: 2019-02-11 12:21:29
End at: 2019-02-11 12:21:59
Local clock offset: 11.473 ms
Remote clock offset: 12.379 ms

# Below is generated by plot.py at 2019-02-11 15:35:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.031 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.031 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

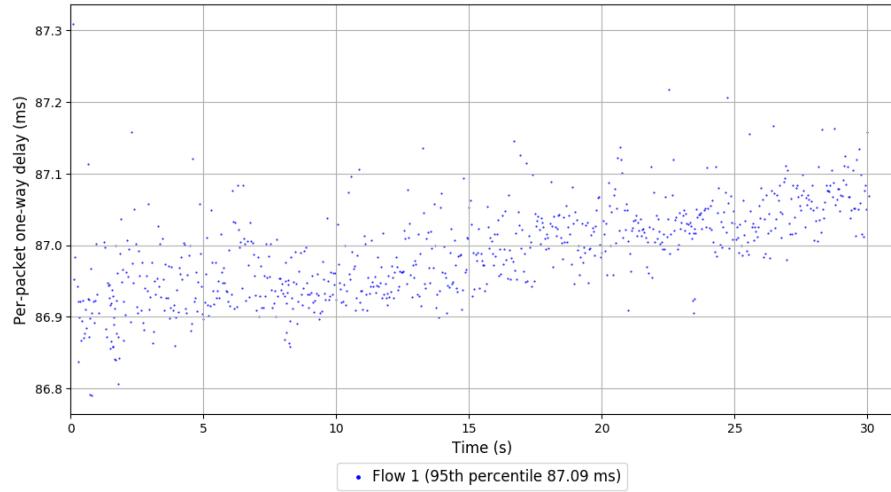
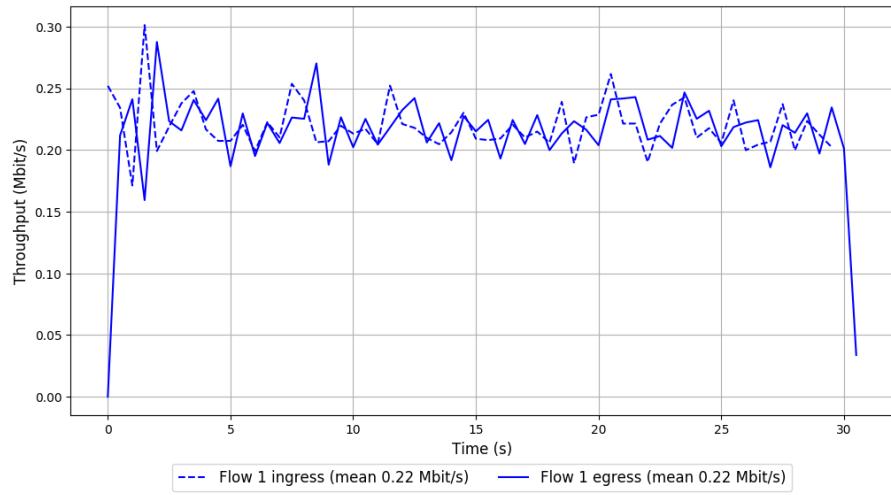


Run 5: Statistics of SCReAM

```
Start at: 2019-02-11 12:54:32
End at: 2019-02-11 12:55:02
Local clock offset: 2.633 ms
Remote clock offset: 6.178 ms

# Below is generated by plot.py at 2019-02-11 15:35:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.093 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.093 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

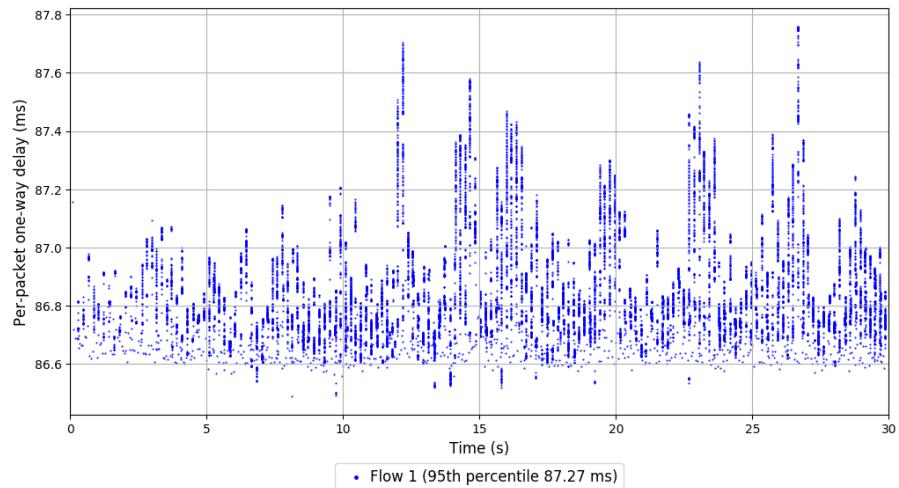
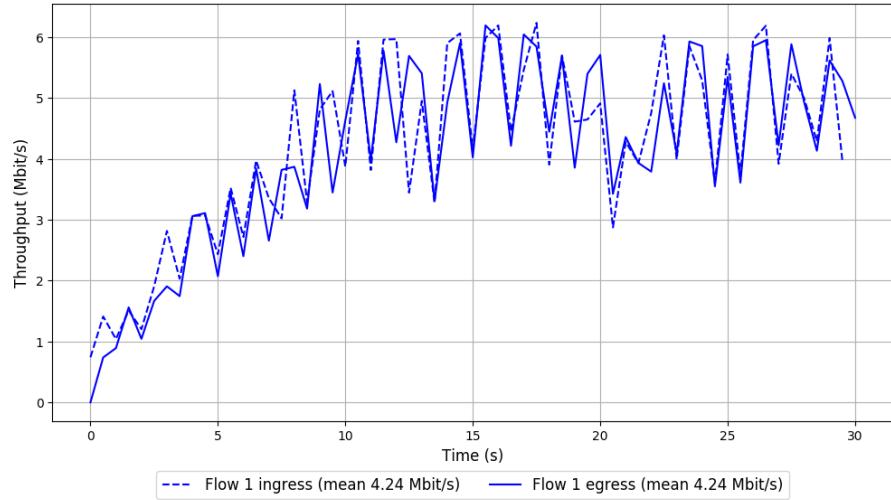


Run 1: Statistics of Sprout

```
Start at: 2019-02-11 10:49:05
End at: 2019-02-11 10:49:35
Local clock offset: 14.337 ms
Remote clock offset: 14.957 ms

# Below is generated by plot.py at 2019-02-11 15:35:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.24 Mbit/s
95th percentile per-packet one-way delay: 87.273 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.24 Mbit/s
95th percentile per-packet one-way delay: 87.273 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

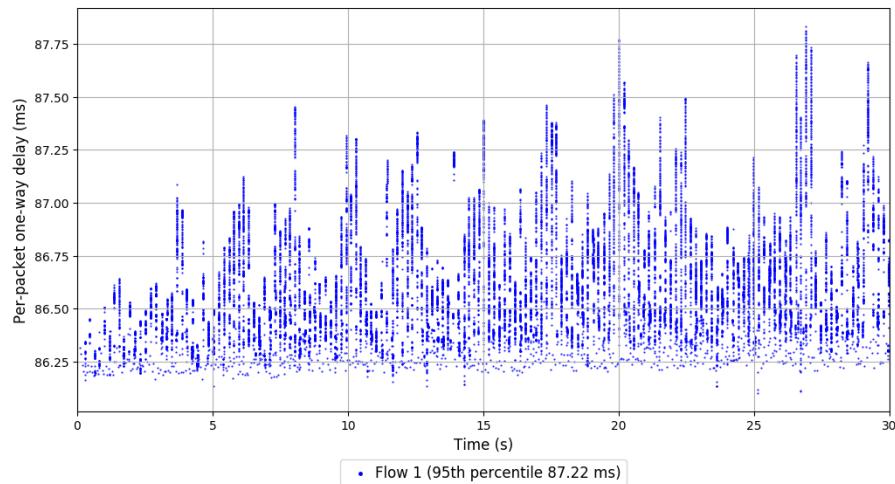
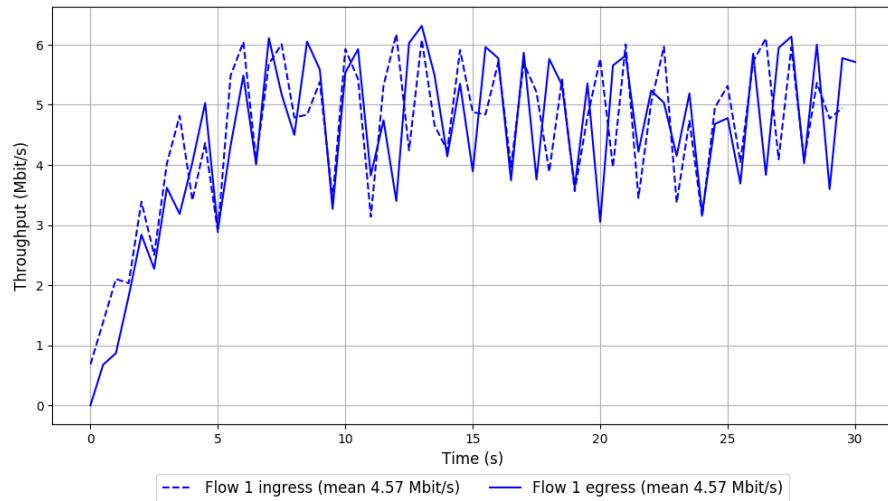


Run 2: Statistics of Sprout

```
Start at: 2019-02-11 11:21:41
End at: 2019-02-11 11:22:11
Local clock offset: 20.832 ms
Remote clock offset: 21.295 ms

# Below is generated by plot.py at 2019-02-11 15:35:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.57 Mbit/s
95th percentile per-packet one-way delay: 87.225 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.57 Mbit/s
95th percentile per-packet one-way delay: 87.225 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

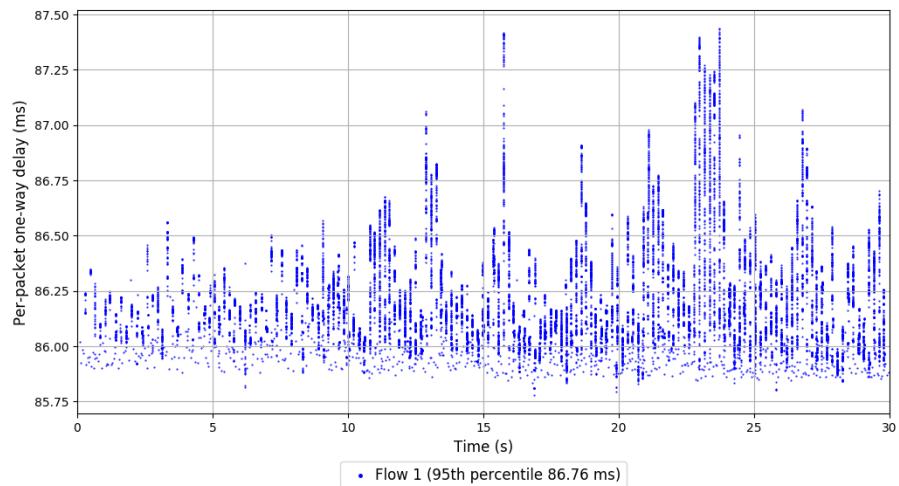
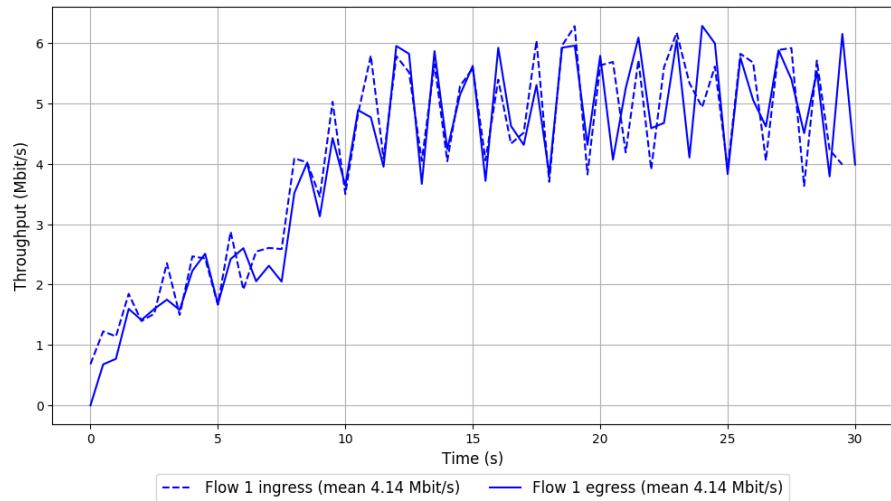


Run 3: Statistics of Sprout

```
Start at: 2019-02-11 11:53:50
End at: 2019-02-11 11:54:20
Local clock offset: 16.612 ms
Remote clock offset: 16.767 ms

# Below is generated by plot.py at 2019-02-11 15:35:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.14 Mbit/s
95th percentile per-packet one-way delay: 86.758 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.14 Mbit/s
95th percentile per-packet one-way delay: 86.758 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

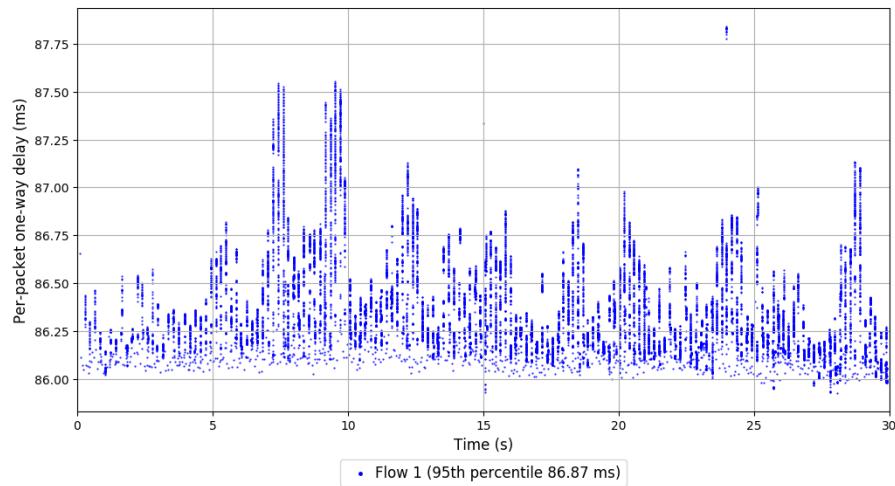
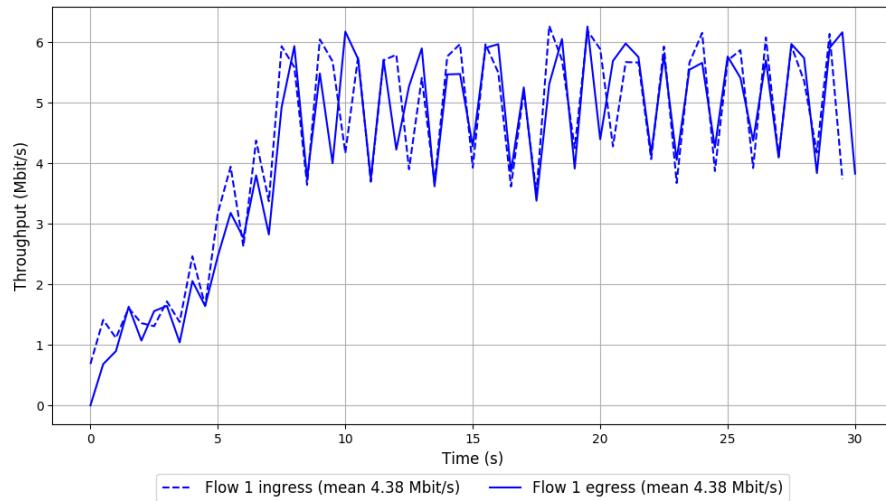


Run 4: Statistics of Sprout

```
Start at: 2019-02-11 12:26:25
End at: 2019-02-11 12:26:55
Local clock offset: 7.285 ms
Remote clock offset: 8.853 ms

# Below is generated by plot.py at 2019-02-11 15:35:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.38 Mbit/s
95th percentile per-packet one-way delay: 86.874 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.38 Mbit/s
95th percentile per-packet one-way delay: 86.874 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

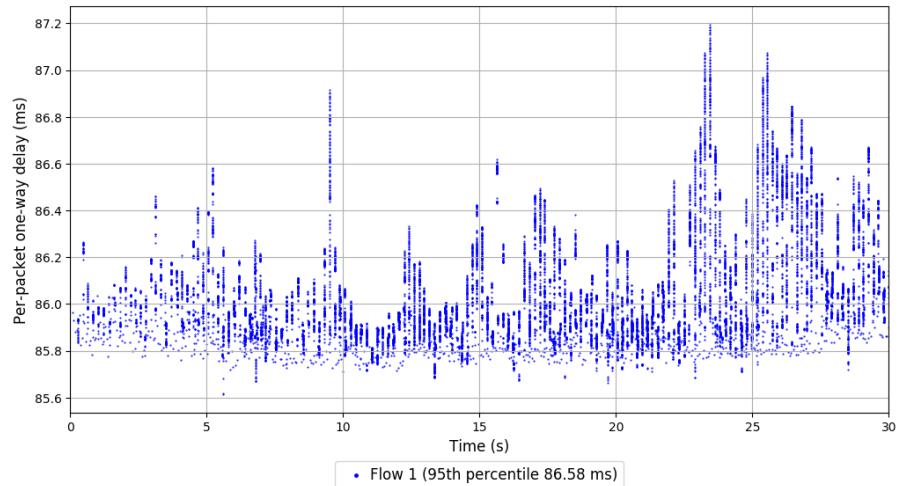
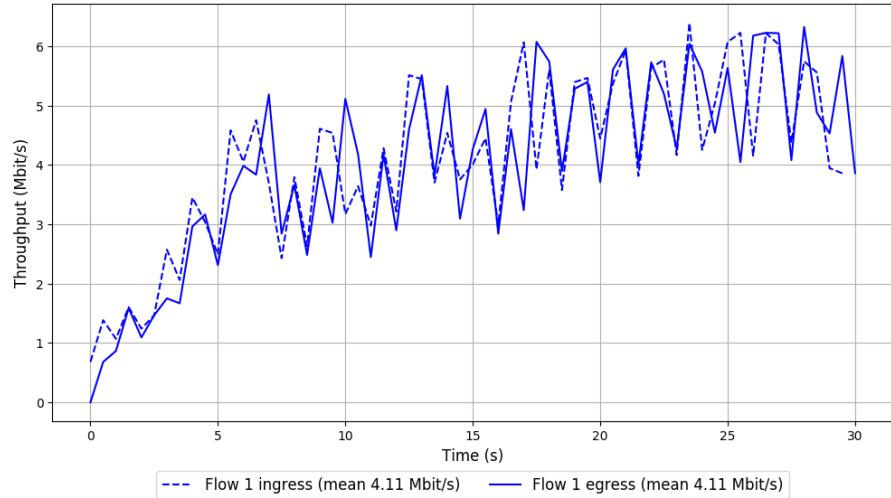


Run 5: Statistics of Sprout

```
Start at: 2019-02-11 12:59:12
End at: 2019-02-11 12:59:42
Local clock offset: 2.342 ms
Remote clock offset: 3.916 ms

# Below is generated by plot.py at 2019-02-11 15:35:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.11 Mbit/s
95th percentile per-packet one-way delay: 86.579 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.11 Mbit/s
95th percentile per-packet one-way delay: 86.579 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

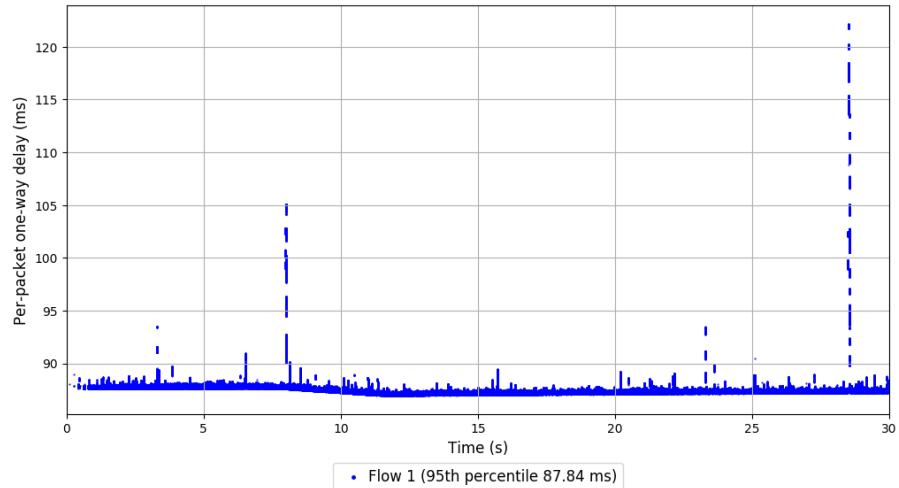
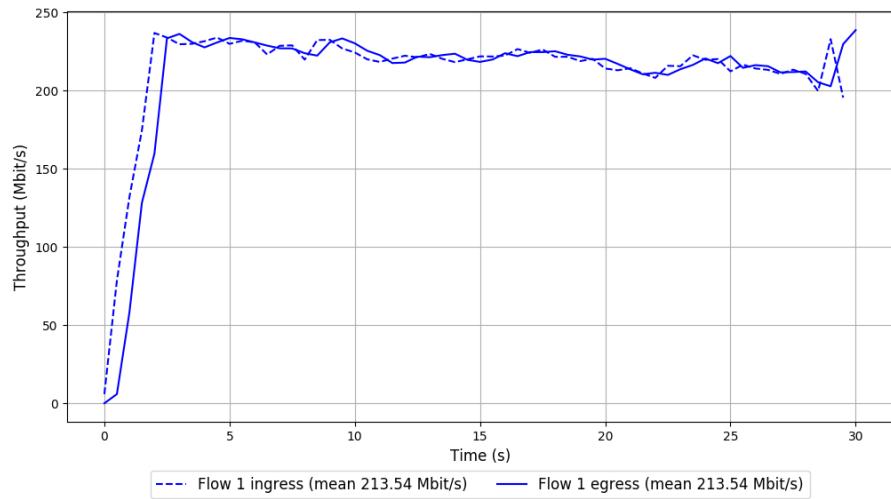


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-02-11 10:35:30
End at: 2019-02-11 10:36:00
Local clock offset: 2.832 ms
Remote clock offset: 4.127 ms

# Below is generated by plot.py at 2019-02-11 15:39:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 213.54 Mbit/s
95th percentile per-packet one-way delay: 87.842 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 213.54 Mbit/s
95th percentile per-packet one-way delay: 87.842 ms
Loss rate: 0.00%
```

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

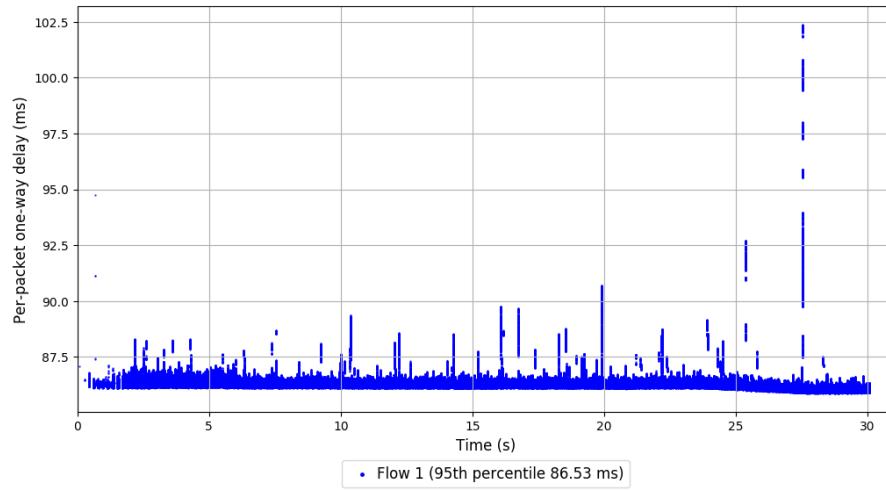
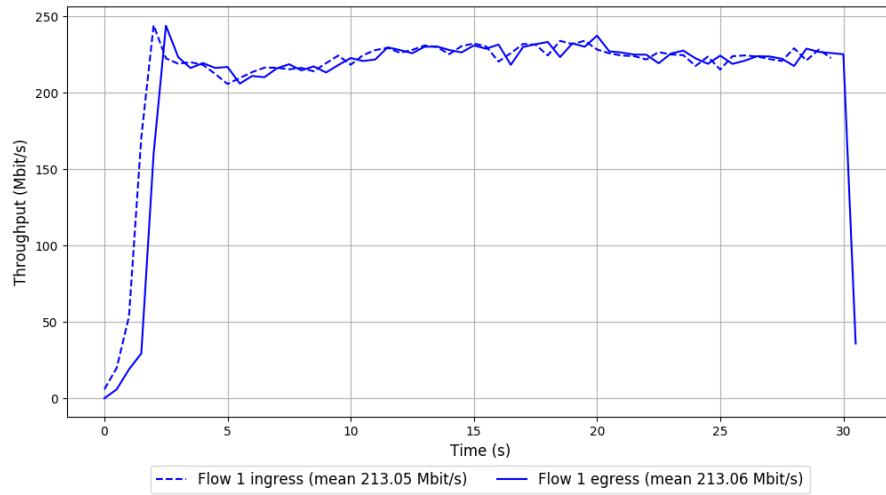


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-02-11 11:07:15
End at: 2019-02-11 11:07:45
Local clock offset: 25.257 ms
Remote clock offset: 25.888 ms

# Below is generated by plot.py at 2019-02-11 15:39:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 213.06 Mbit/s
95th percentile per-packet one-way delay: 86.527 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 213.06 Mbit/s
95th percentile per-packet one-way delay: 86.527 ms
Loss rate: 0.00%
```

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

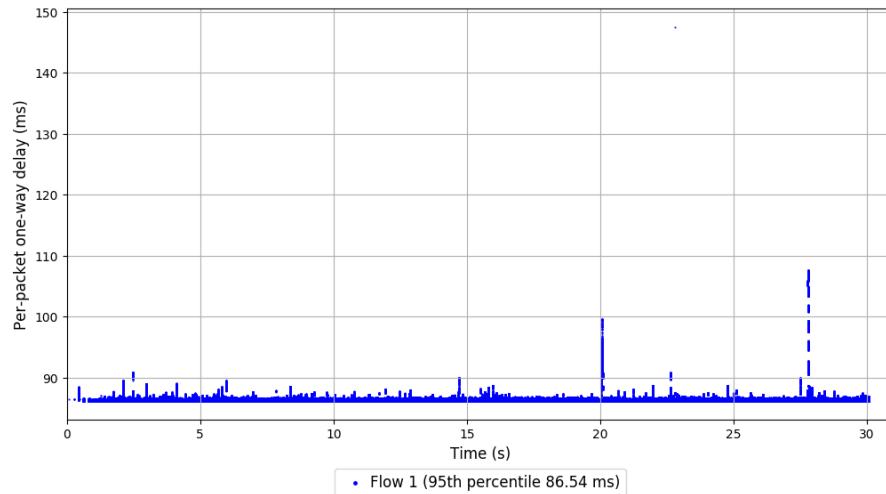
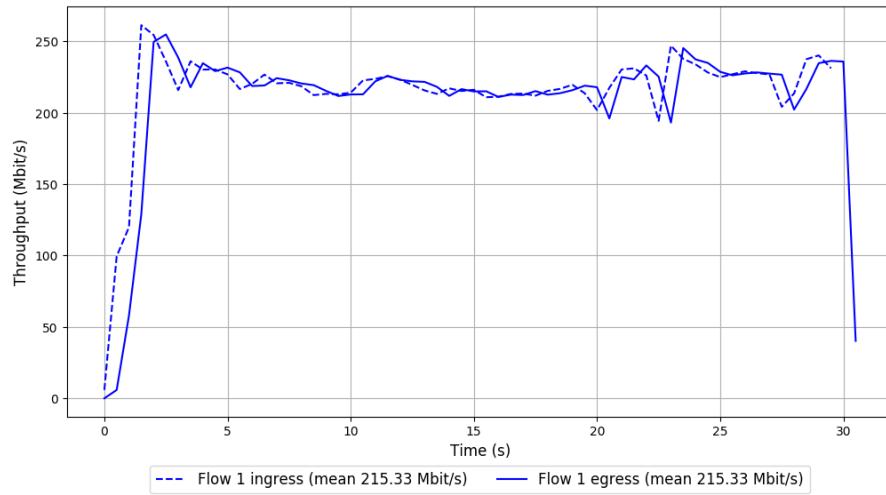


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-02-11 11:39:58
End at: 2019-02-11 11:40:28
Local clock offset: 37.164 ms
Remote clock offset: 37.761 ms

# Below is generated by plot.py at 2019-02-11 15:39:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 215.33 Mbit/s
95th percentile per-packet one-way delay: 86.544 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 215.33 Mbit/s
95th percentile per-packet one-way delay: 86.544 ms
Loss rate: 0.00%
```

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

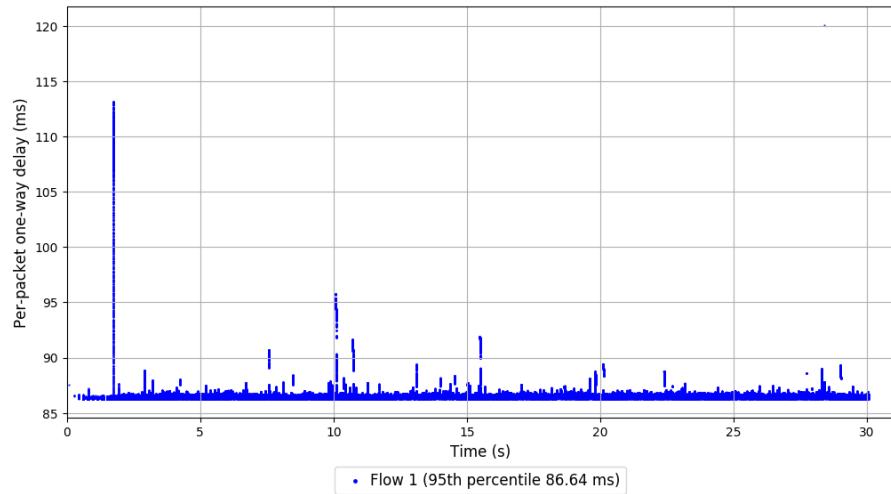
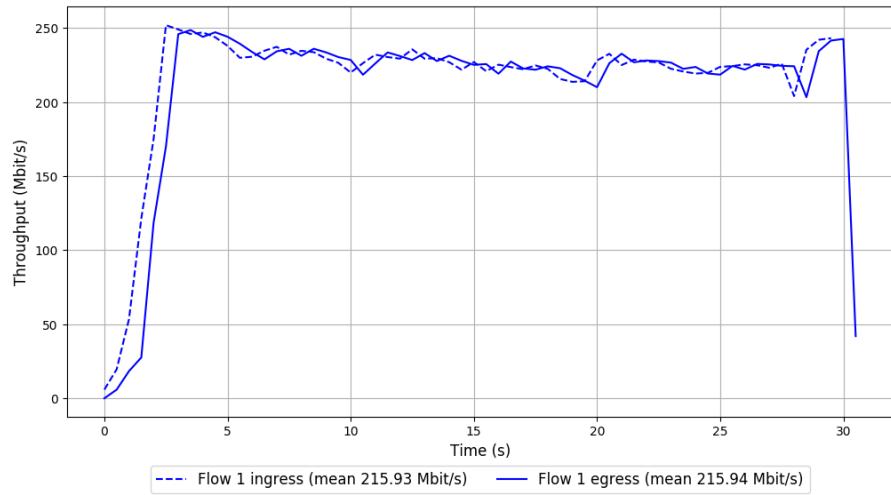


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-02-11 12:11:47
End at: 2019-02-11 12:12:17
Local clock offset: 17.956 ms
Remote clock offset: 18.347 ms

# Below is generated by plot.py at 2019-02-11 15:40:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 215.94 Mbit/s
95th percentile per-packet one-way delay: 86.636 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 215.94 Mbit/s
95th percentile per-packet one-way delay: 86.636 ms
Loss rate: 0.00%
```

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

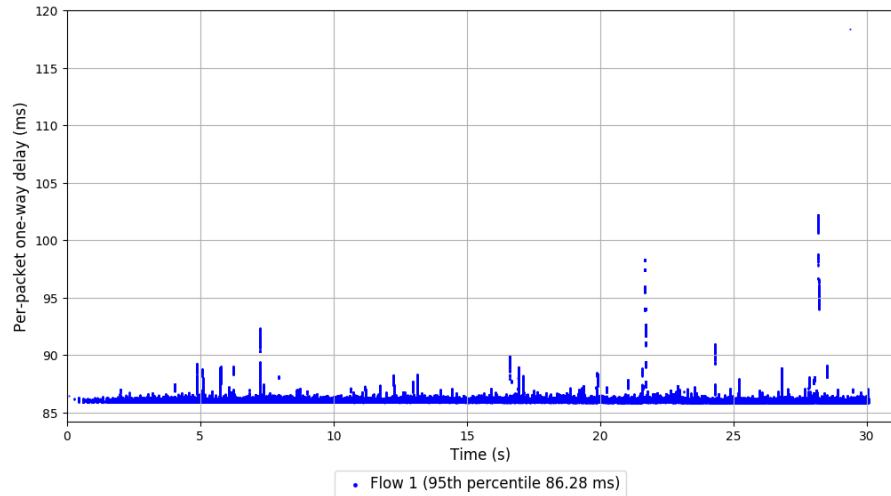
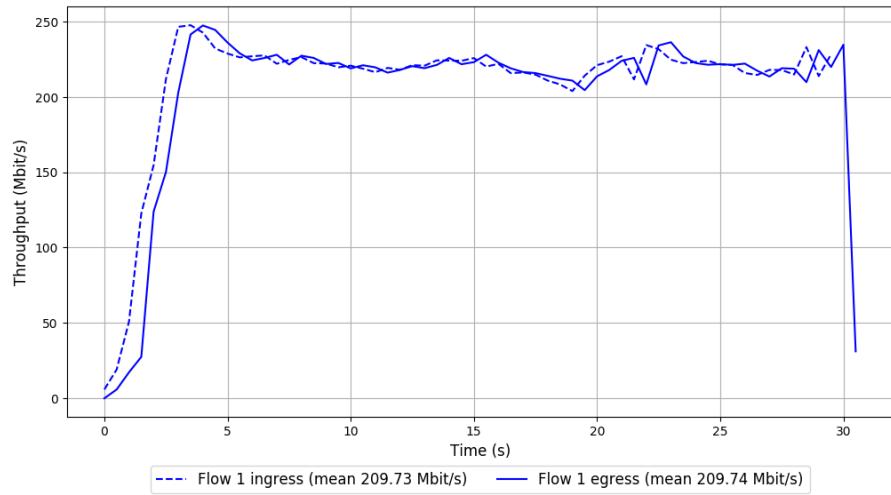


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-02-11 12:44:44
End at: 2019-02-11 12:45:14
Local clock offset: 4.213 ms
Remote clock offset: 8.53 ms

# Below is generated by plot.py at 2019-02-11 15:42:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 209.74 Mbit/s
95th percentile per-packet one-way delay: 86.280 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 209.74 Mbit/s
95th percentile per-packet one-way delay: 86.280 ms
Loss rate: 0.00%
```

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

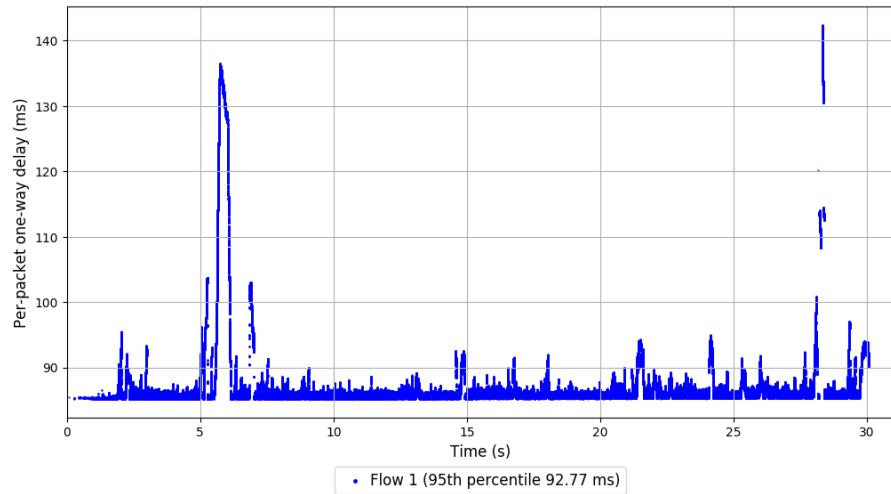
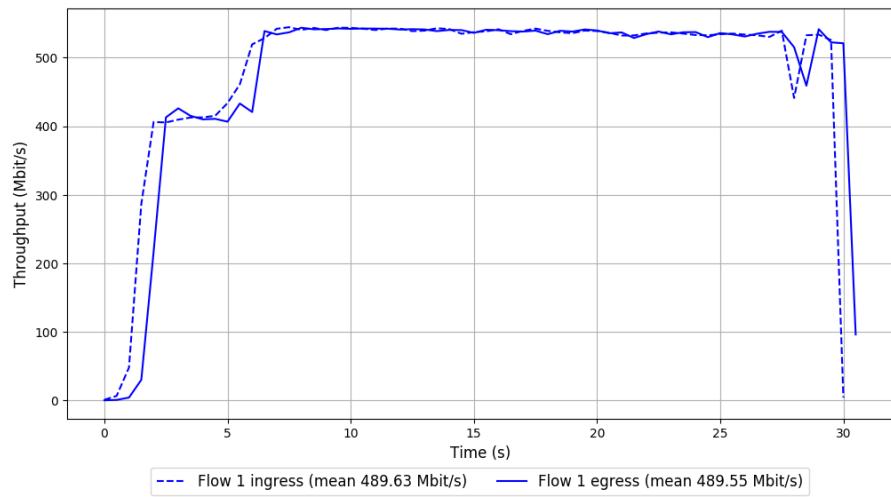


Run 1: Statistics of TCP Vegas

```
Start at: 2019-02-11 10:38:39
End at: 2019-02-11 10:39:09
Local clock offset: 6.714 ms
Remote clock offset: 6.089 ms

# Below is generated by plot.py at 2019-02-11 15:45:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 489.55 Mbit/s
95th percentile per-packet one-way delay: 92.771 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 489.55 Mbit/s
95th percentile per-packet one-way delay: 92.771 ms
Loss rate: 0.01%
```

Run 1: Report of TCP Vegas — Data Link

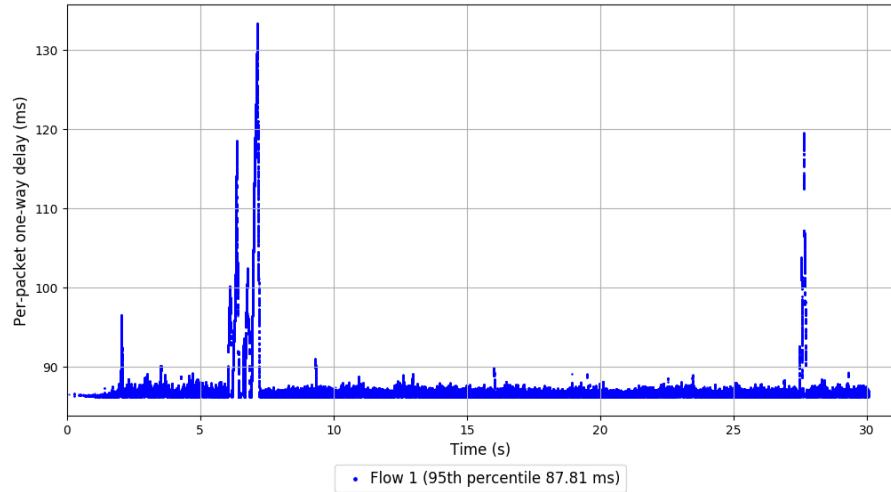
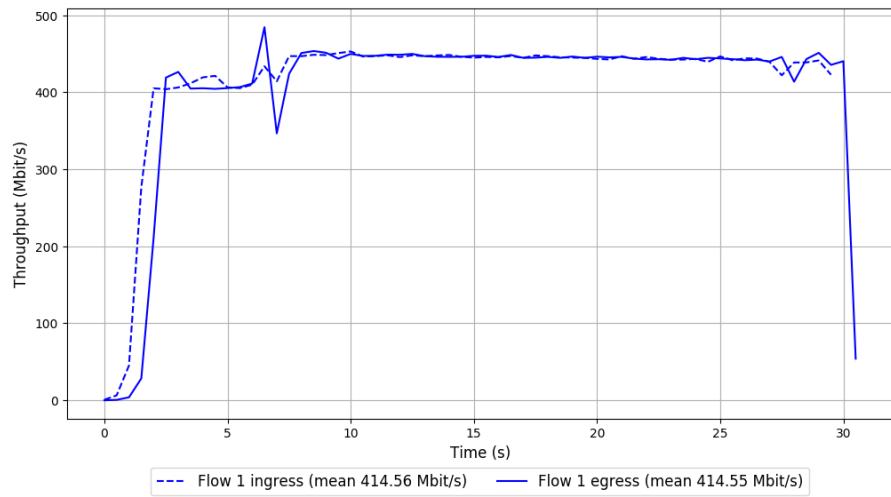


Run 2: Statistics of TCP Vegas

```
Start at: 2019-02-11 11:10:21
End at: 2019-02-11 11:10:51
Local clock offset: 22.876 ms
Remote clock offset: 22.994 ms

# Below is generated by plot.py at 2019-02-11 15:45:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 414.55 Mbit/s
95th percentile per-packet one-way delay: 87.808 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 414.55 Mbit/s
95th percentile per-packet one-way delay: 87.808 ms
Loss rate: 0.00%
```

Run 2: Report of TCP Vegas — Data Link

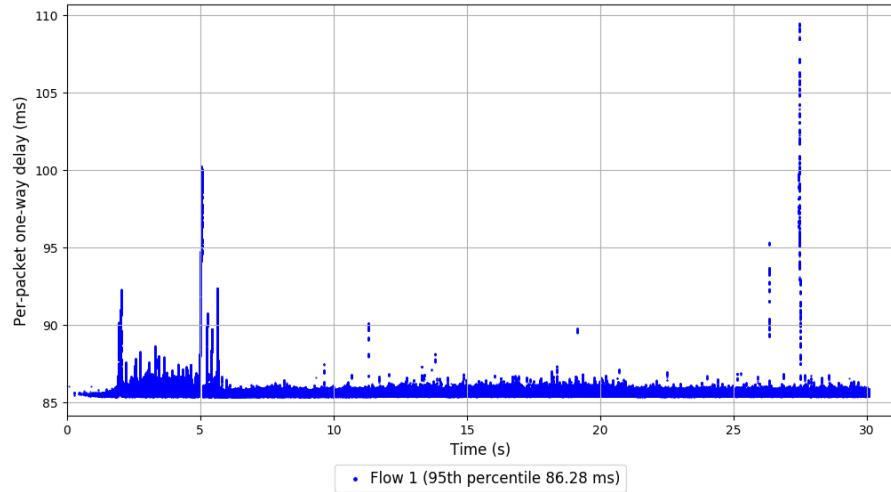
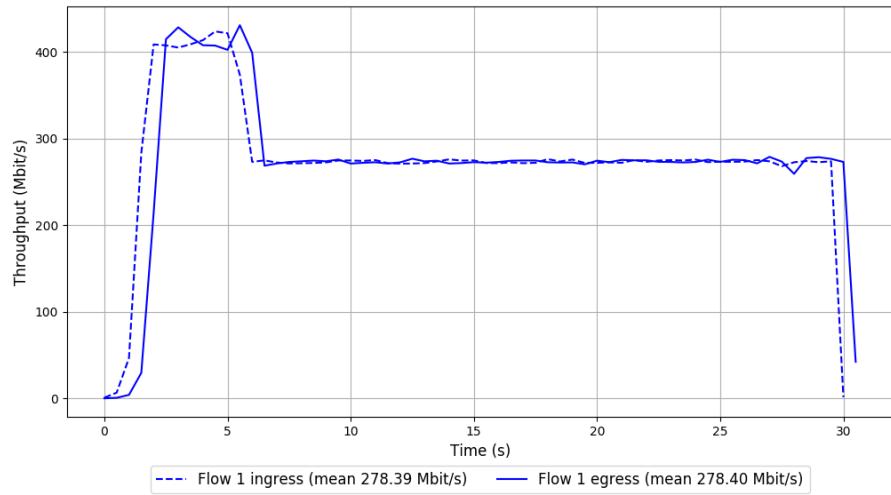


Run 3: Statistics of TCP Vegas

```
Start at: 2019-02-11 11:43:17
End at: 2019-02-11 11:43:47
Local clock offset: 35.47 ms
Remote clock offset: 35.179 ms

# Below is generated by plot.py at 2019-02-11 15:45:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 278.40 Mbit/s
95th percentile per-packet one-way delay: 86.282 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 278.40 Mbit/s
95th percentile per-packet one-way delay: 86.282 ms
Loss rate: 0.00%
```

Run 3: Report of TCP Vegas — Data Link

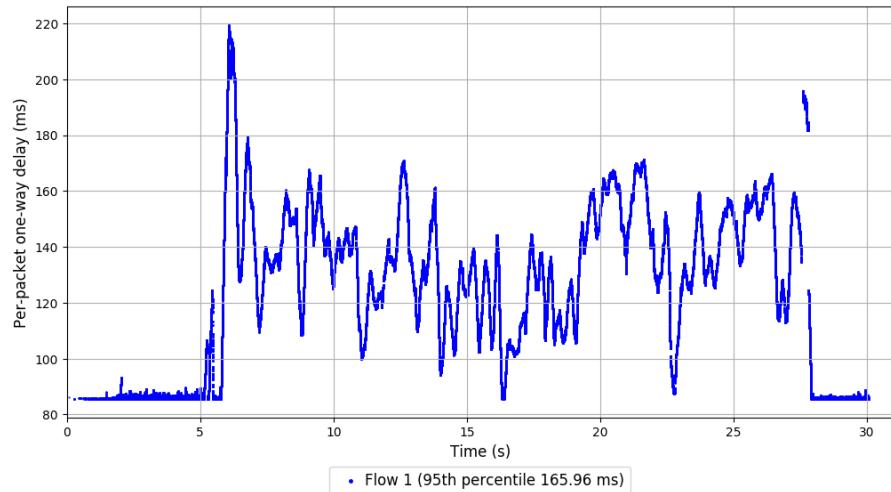
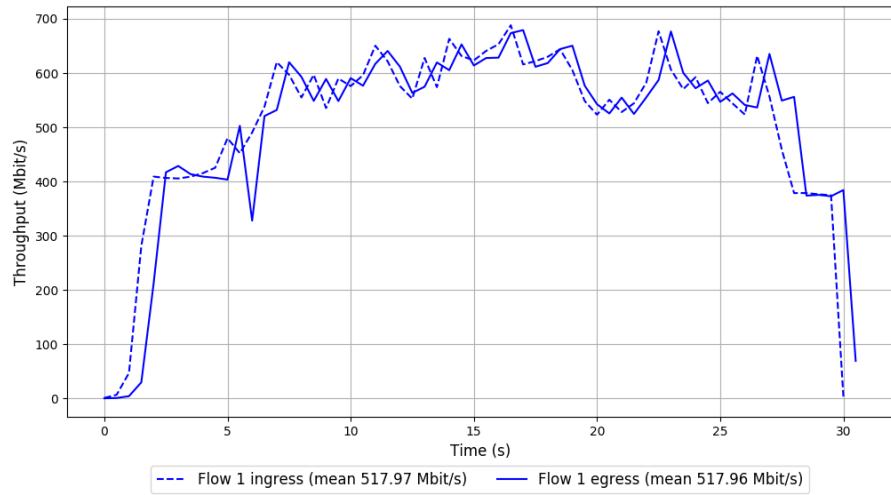


Run 4: Statistics of TCP Vegas

```
Start at: 2019-02-11 12:14:57
End at: 2019-02-11 12:15:27
Local clock offset: 19.795 ms
Remote clock offset: 19.767 ms

# Below is generated by plot.py at 2019-02-11 15:52:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 517.96 Mbit/s
95th percentile per-packet one-way delay: 165.964 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 517.96 Mbit/s
95th percentile per-packet one-way delay: 165.964 ms
Loss rate: 0.00%
```

Run 4: Report of TCP Vegas — Data Link

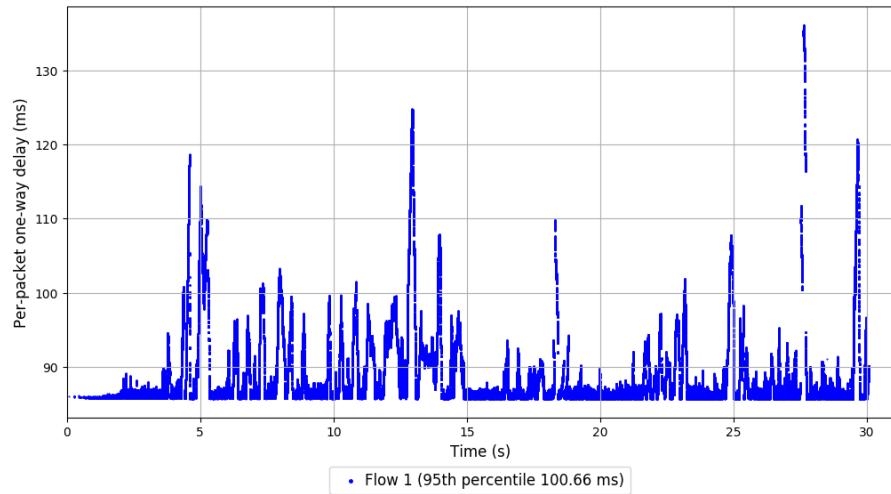
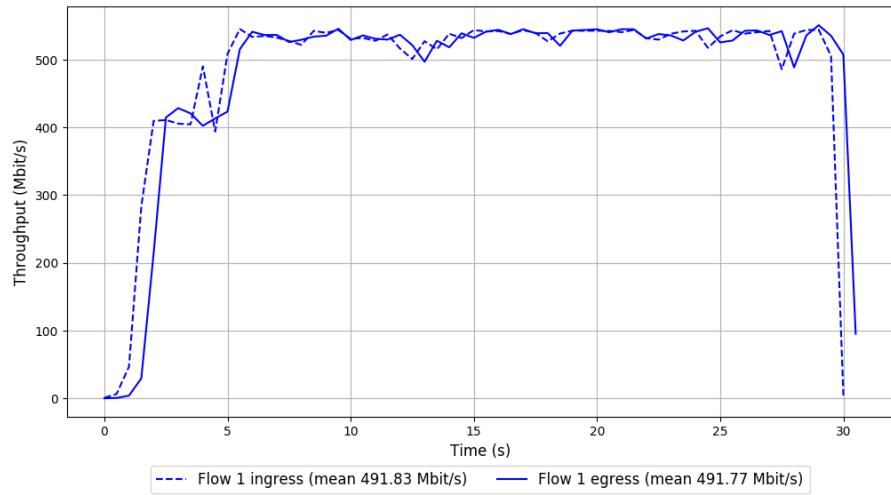


Run 5: Statistics of TCP Vegas

```
Start at: 2019-02-11 12:47:56
End at: 2019-02-11 12:48:26
Local clock offset: 4.569 ms
Remote clock offset: 9.155 ms

# Below is generated by plot.py at 2019-02-11 15:52:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 491.77 Mbit/s
95th percentile per-packet one-way delay: 100.658 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 491.77 Mbit/s
95th percentile per-packet one-way delay: 100.658 ms
Loss rate: 0.01%
```

Run 5: Report of TCP Vegas — Data Link

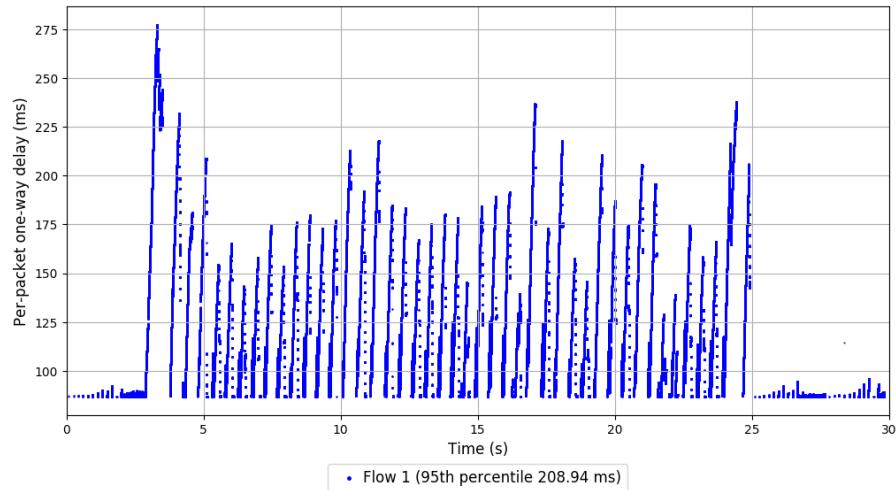
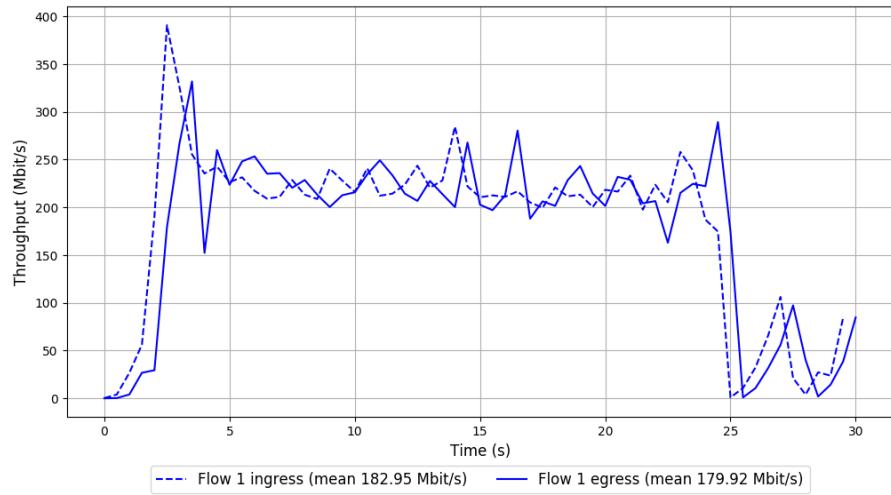


Run 1: Statistics of Verus

```
Start at: 2019-02-11 10:59:35
End at: 2019-02-11 11:00:05
Local clock offset: 14.903 ms
Remote clock offset: 15.816 ms

# Below is generated by plot.py at 2019-02-11 15:52:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 179.92 Mbit/s
95th percentile per-packet one-way delay: 208.936 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 179.92 Mbit/s
95th percentile per-packet one-way delay: 208.936 ms
Loss rate: 1.66%
```

Run 1: Report of Verus — Data Link

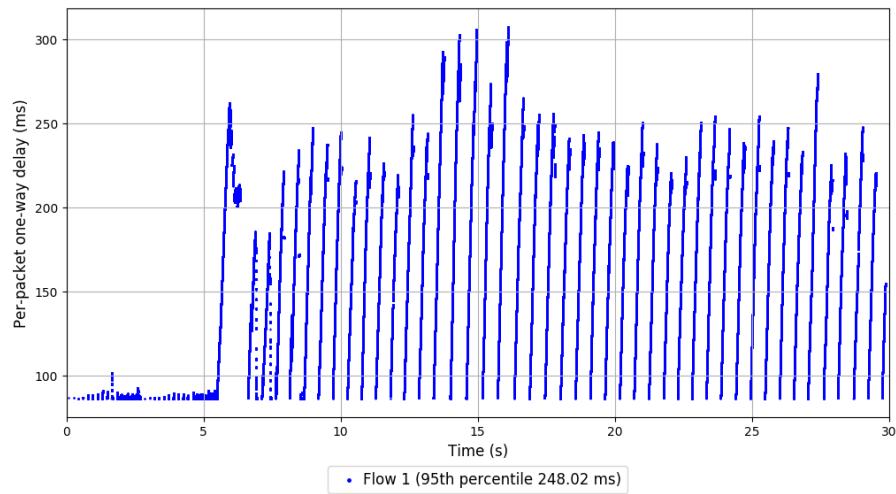
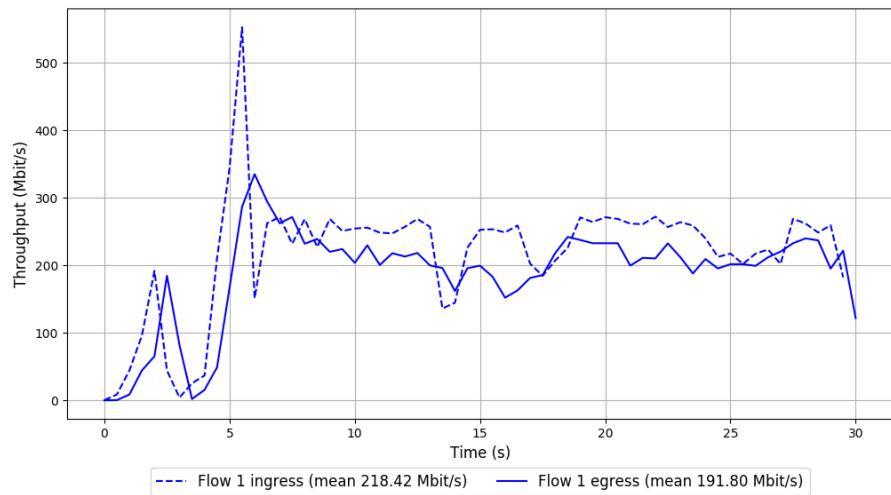


Run 2: Statistics of Verus

```
Start at: 2019-02-11 11:32:17
End at: 2019-02-11 11:32:47
Local clock offset: 29.346 ms
Remote clock offset: 29.844 ms

# Below is generated by plot.py at 2019-02-11 15:52:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 191.80 Mbit/s
95th percentile per-packet one-way delay: 248.024 ms
Loss rate: 12.18%
-- Flow 1:
Average throughput: 191.80 Mbit/s
95th percentile per-packet one-way delay: 248.024 ms
Loss rate: 12.18%
```

Run 2: Report of Verus — Data Link

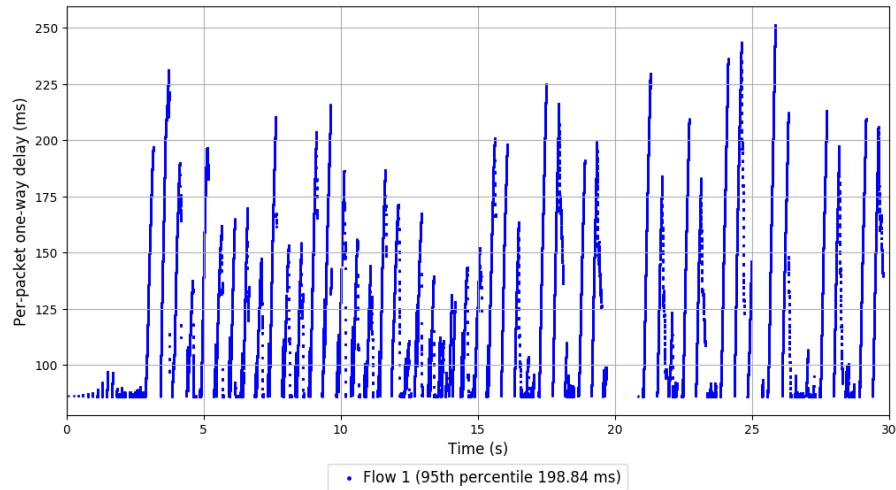
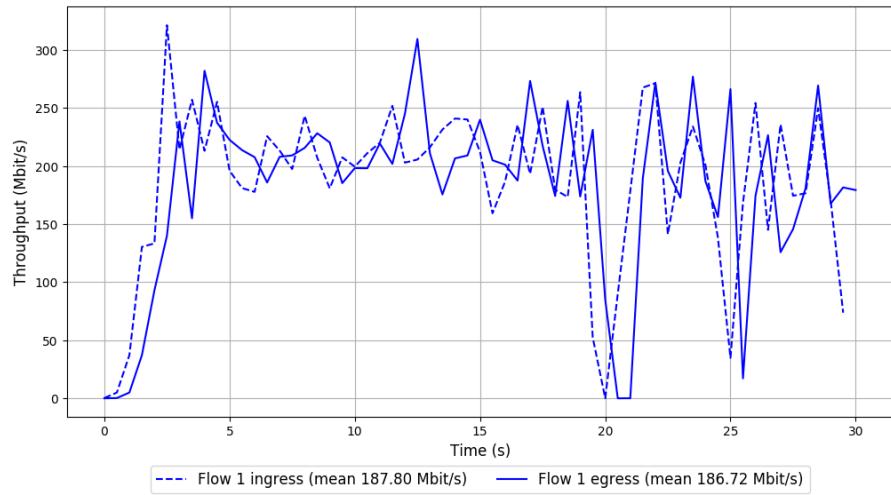


Run 3: Statistics of Verus

```
Start at: 2019-02-11 12:04:02
End at: 2019-02-11 12:04:32
Local clock offset: 15.42 ms
Remote clock offset: 15.731 ms

# Below is generated by plot.py at 2019-02-11 15:52:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 186.72 Mbit/s
95th percentile per-packet one-way delay: 198.839 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 186.72 Mbit/s
95th percentile per-packet one-way delay: 198.839 ms
Loss rate: 0.40%
```

Run 3: Report of Verus — Data Link

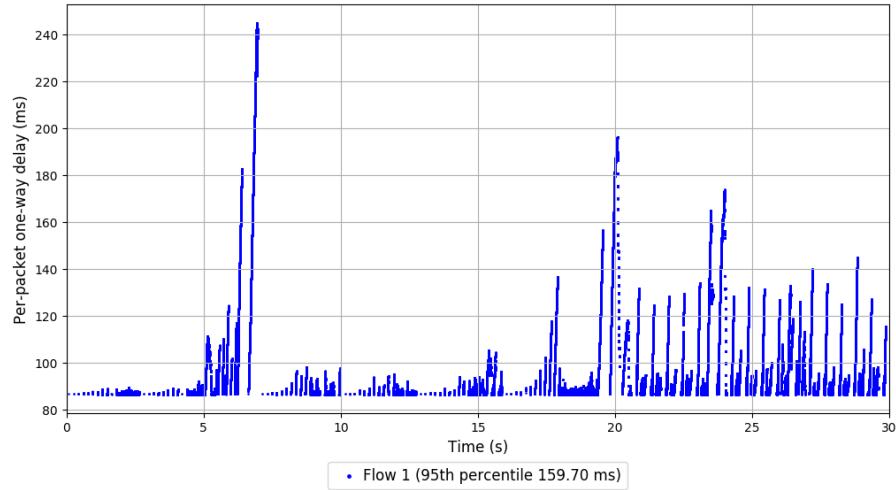
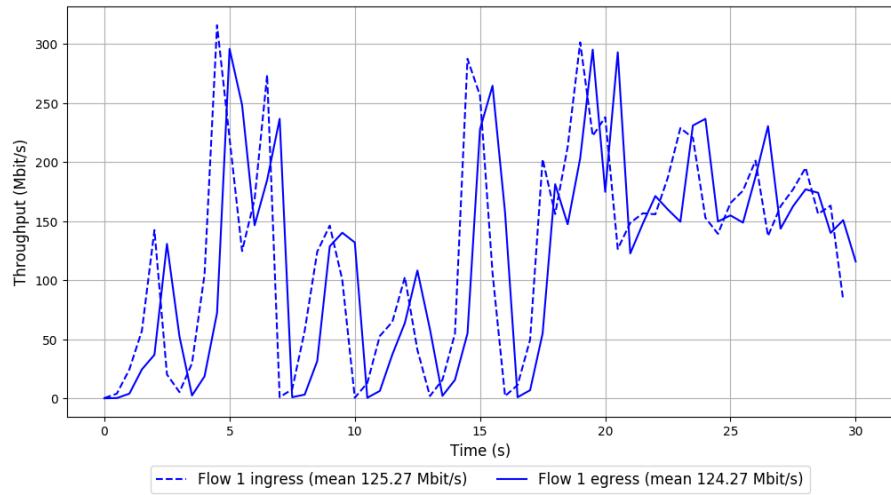


Run 4: Statistics of Verus

```
Start at: 2019-02-11 12:36:48
End at: 2019-02-11 12:37:18
Local clock offset: 3.946 ms
Remote clock offset: 7.41 ms

# Below is generated by plot.py at 2019-02-11 15:52:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 124.27 Mbit/s
95th percentile per-packet one-way delay: 159.696 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 124.27 Mbit/s
95th percentile per-packet one-way delay: 159.696 ms
Loss rate: 0.73%
```

Run 4: Report of Verus — Data Link

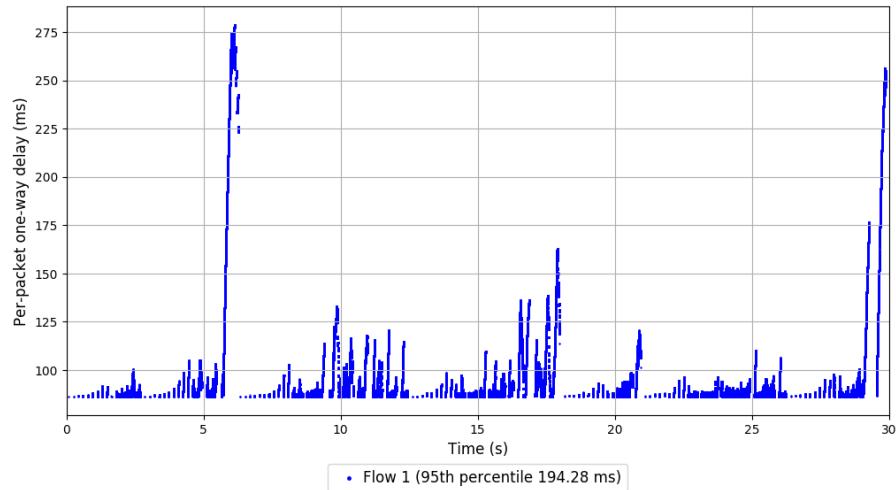
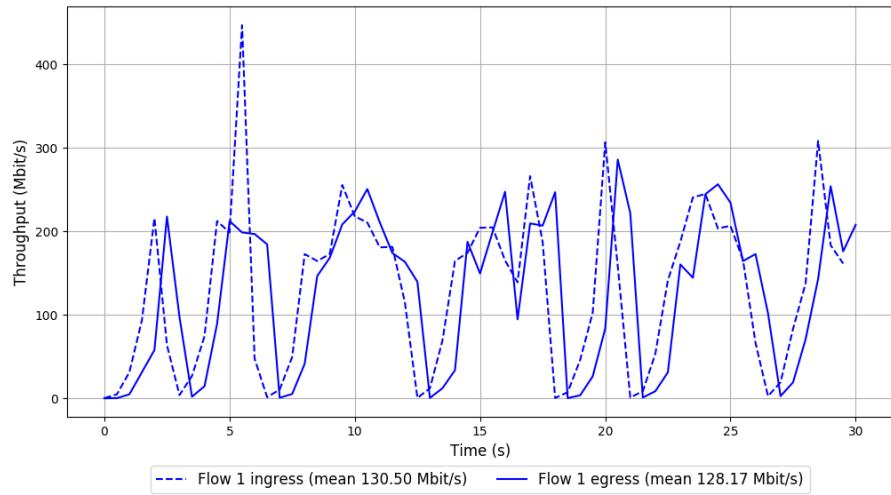


Run 5: Statistics of Verus

```
Start at: 2019-02-11 13:09:32
End at: 2019-02-11 13:10:02
Local clock offset: 1.602 ms
Remote clock offset: 2.121 ms

# Below is generated by plot.py at 2019-02-11 15:52:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 128.17 Mbit/s
95th percentile per-packet one-way delay: 194.279 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 128.17 Mbit/s
95th percentile per-packet one-way delay: 194.279 ms
Loss rate: 1.74%
```

Run 5: Report of Verus — Data Link

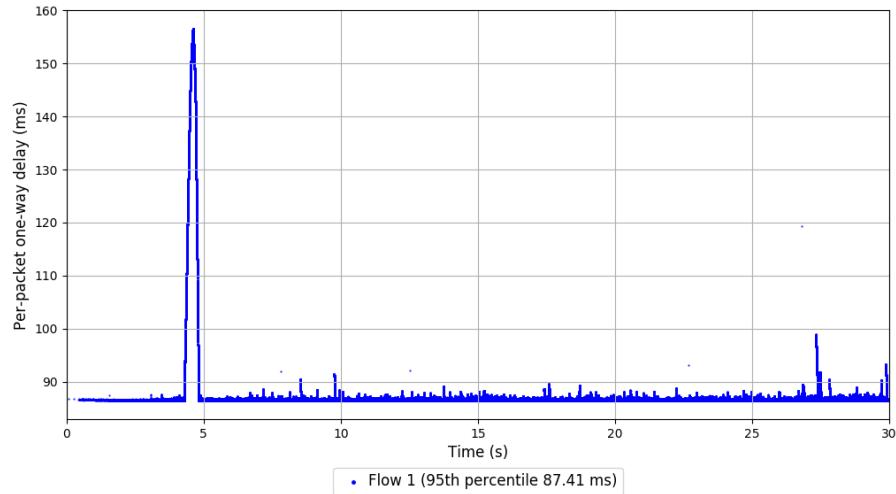
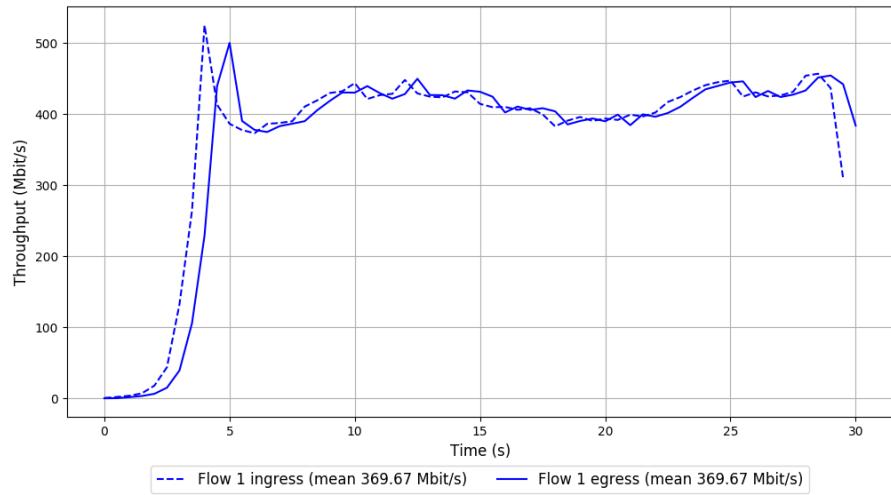


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-02-11 11:04:01
End at: 2019-02-11 11:04:31
Local clock offset: 20.936 ms
Remote clock offset: 21.427 ms

# Below is generated by plot.py at 2019-02-11 15:53:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 369.67 Mbit/s
95th percentile per-packet one-way delay: 87.406 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 369.67 Mbit/s
95th percentile per-packet one-way delay: 87.406 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Vivace — Data Link

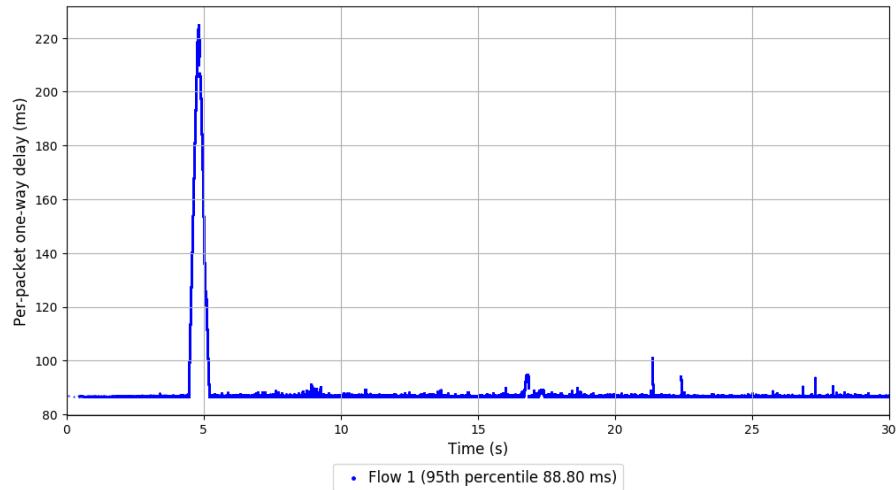
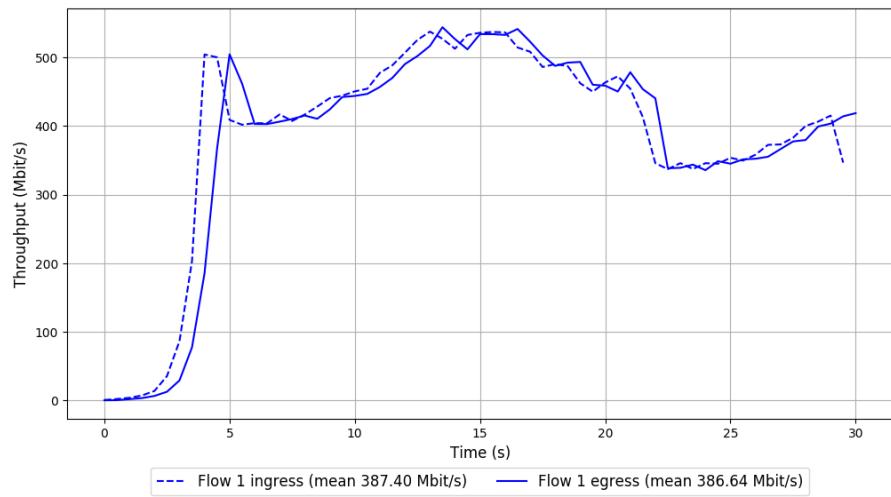


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-02-11 11:36:44
End at: 2019-02-11 11:37:14
Local clock offset: 33.356 ms
Remote clock offset: 34.409 ms

# Below is generated by plot.py at 2019-02-11 15:56:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 386.64 Mbit/s
95th percentile per-packet one-way delay: 88.800 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 386.64 Mbit/s
95th percentile per-packet one-way delay: 88.800 ms
Loss rate: 0.20%
```

Run 2: Report of PCC-Vivace — Data Link

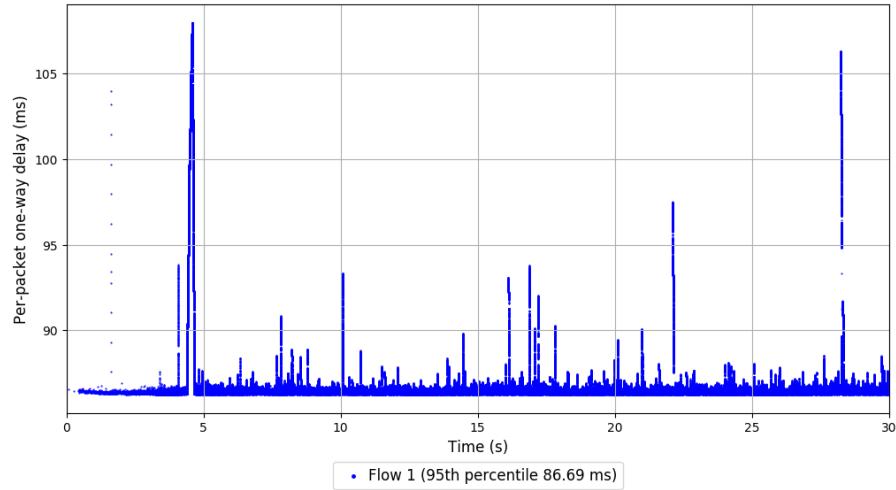
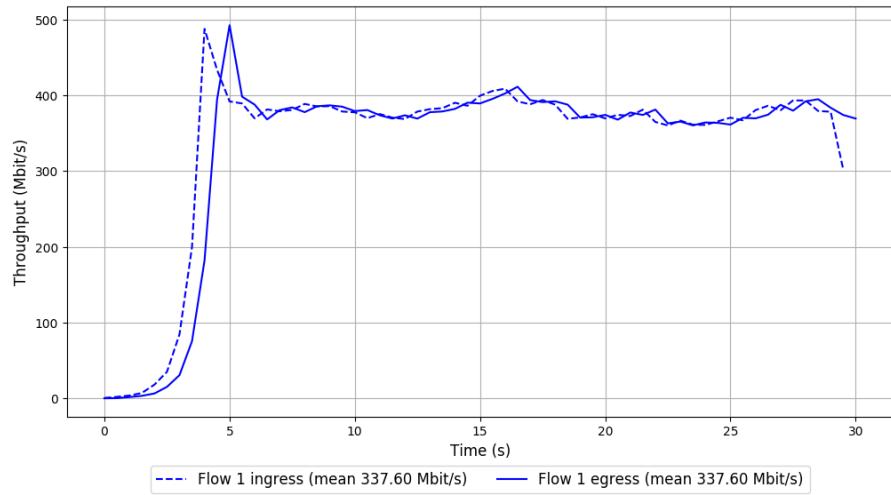


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-02-11 12:08:33
End at: 2019-02-11 12:09:03
Local clock offset: 16.704 ms
Remote clock offset: 17.062 ms

# Below is generated by plot.py at 2019-02-11 15:56:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 337.60 Mbit/s
95th percentile per-packet one-way delay: 86.686 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 337.60 Mbit/s
95th percentile per-packet one-way delay: 86.686 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Vivace — Data Link

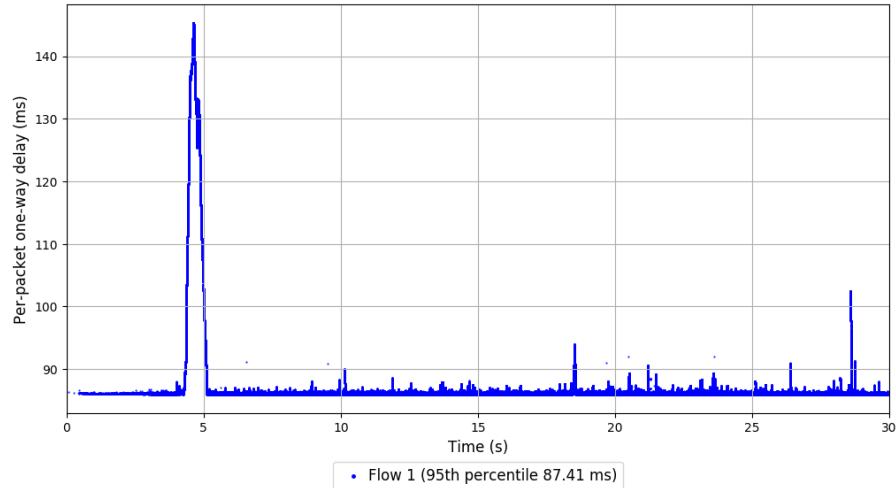
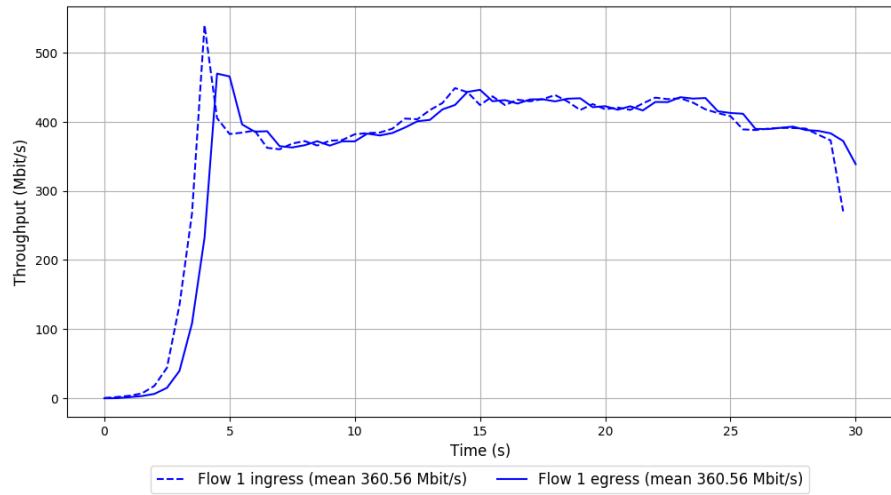


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-02-11 12:41:09
End at: 2019-02-11 12:41:39
Local clock offset: 4.031 ms
Remote clock offset: 7.88 ms

# Below is generated by plot.py at 2019-02-11 15:56:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 360.56 Mbit/s
95th percentile per-packet one-way delay: 87.406 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 360.56 Mbit/s
95th percentile per-packet one-way delay: 87.406 ms
Loss rate: 0.00%
```

Run 4: Report of PCC-Vivace — Data Link

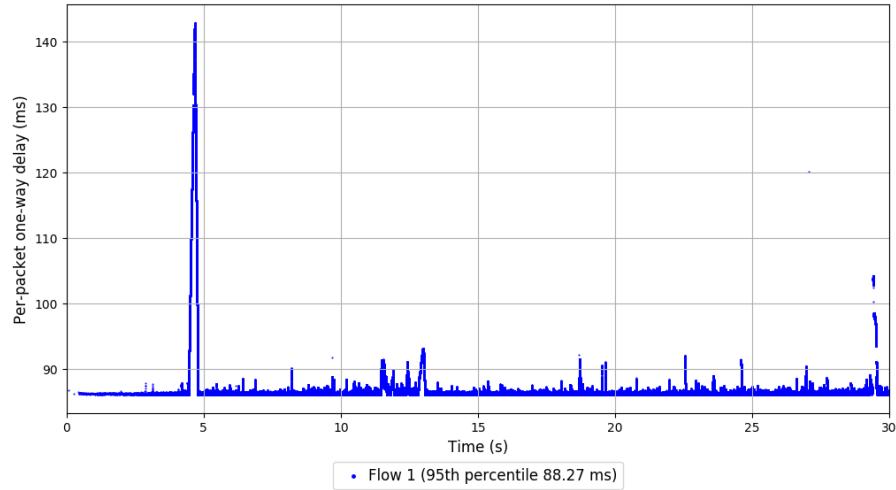
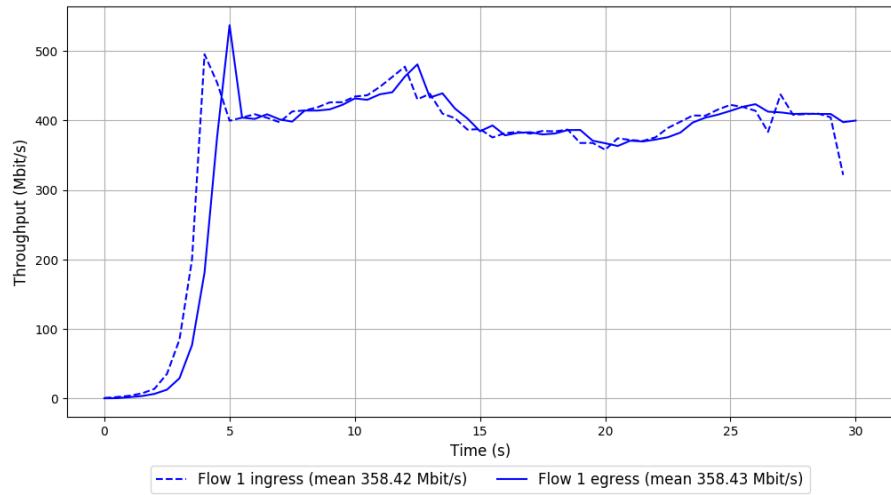


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-02-11 13:13:55
End at: 2019-02-11 13:14:25
Local clock offset: 1.253 ms
Remote clock offset: 1.966 ms

# Below is generated by plot.py at 2019-02-11 15:56:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 358.43 Mbit/s
95th percentile per-packet one-way delay: 88.270 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 358.43 Mbit/s
95th percentile per-packet one-way delay: 88.270 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Vivace — Data Link

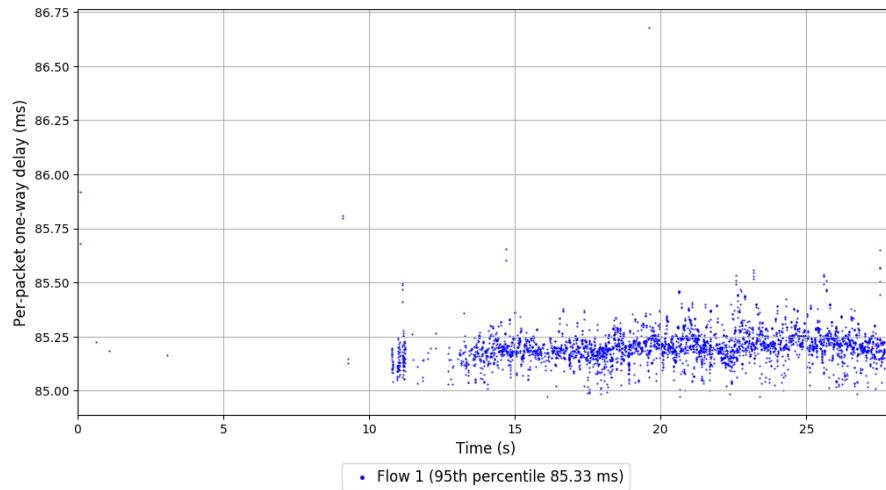
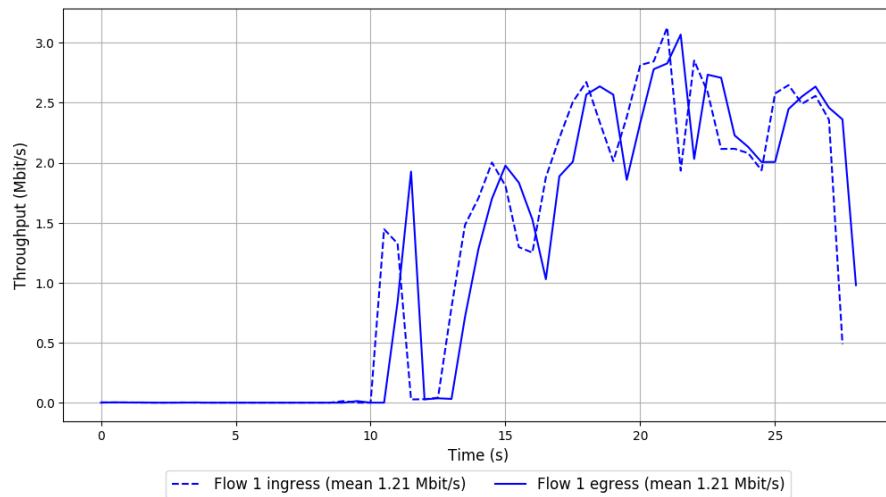


Run 1: Statistics of WebRTC media

```
Start at: 2019-02-11 10:51:59
End at: 2019-02-11 10:52:29
Local clock offset: 16.007 ms
Remote clock offset: 15.274 ms

# Below is generated by plot.py at 2019-02-11 15:56:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 85.329 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 85.329 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

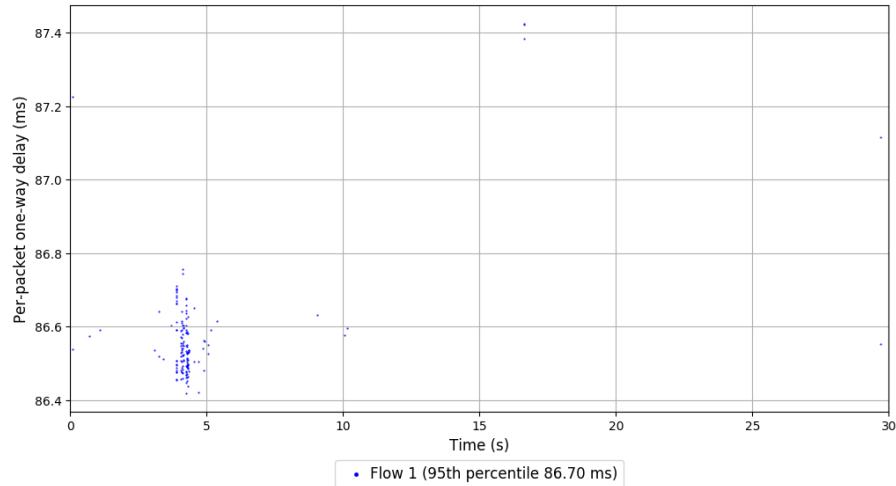
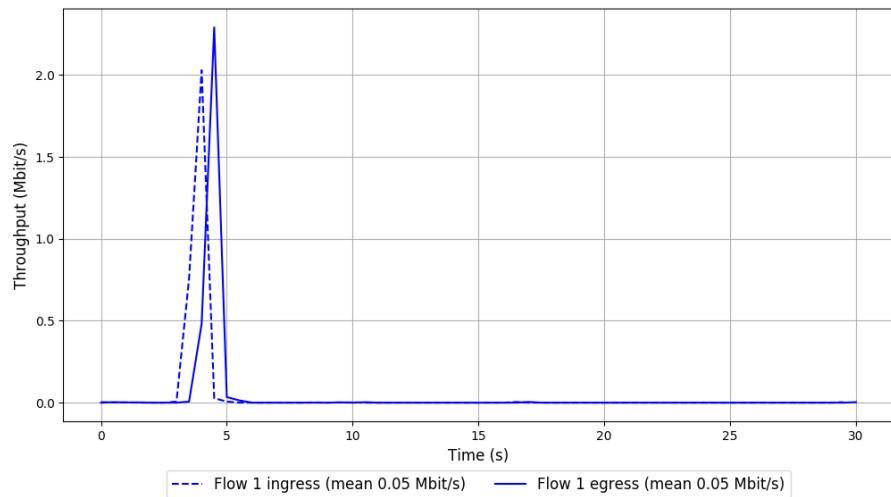


Run 2: Statistics of WebRTC media

```
Start at: 2019-02-11 11:24:43
End at: 2019-02-11 11:25:13
Local clock offset: 22.913 ms
Remote clock offset: 23.29 ms

# Below is generated by plot.py at 2019-02-11 15:56:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.704 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.704 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

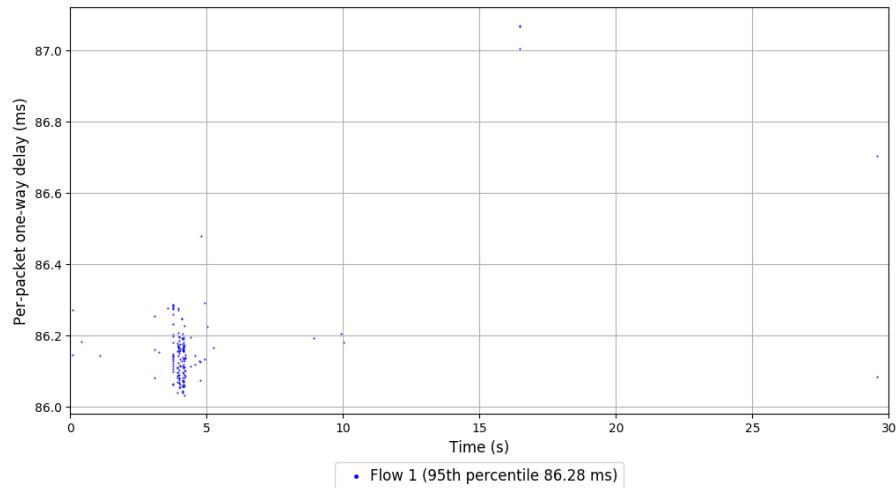
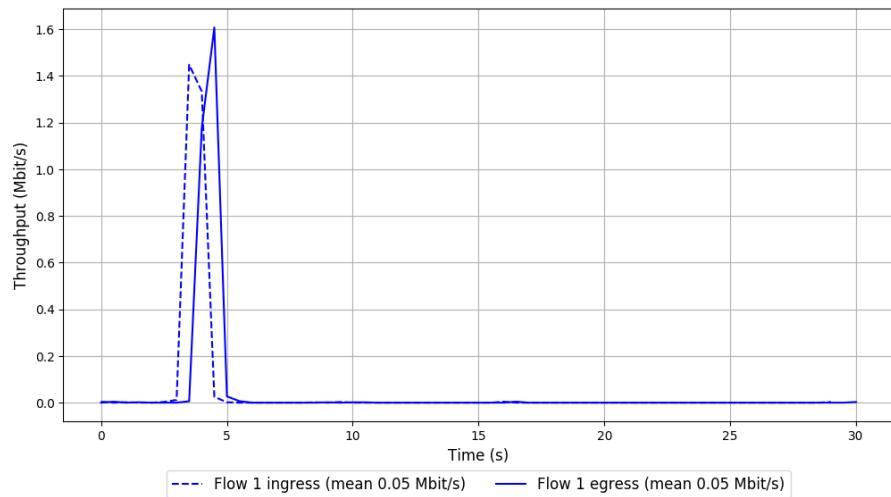


Run 3: Statistics of WebRTC media

```
Start at: 2019-02-11 11:56:42
End at: 2019-02-11 11:57:12
Local clock offset: 15.168 ms
Remote clock offset: 15.606 ms

# Below is generated by plot.py at 2019-02-11 15:56:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.282 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.282 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

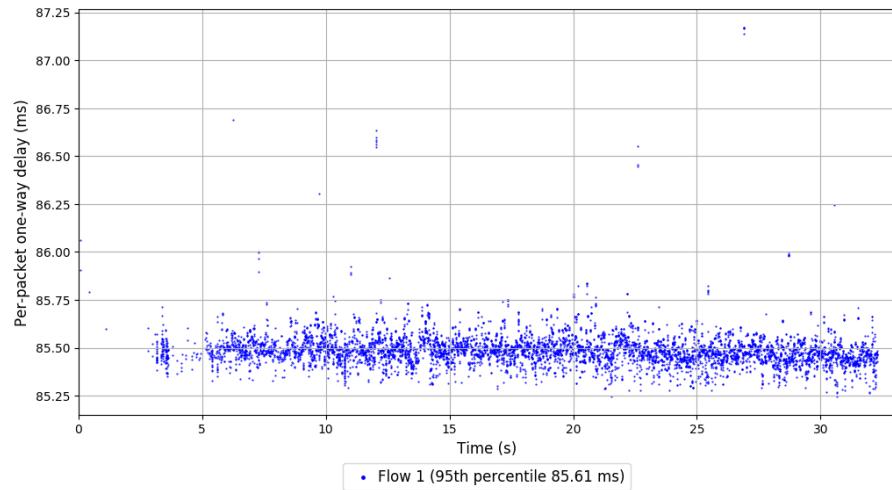
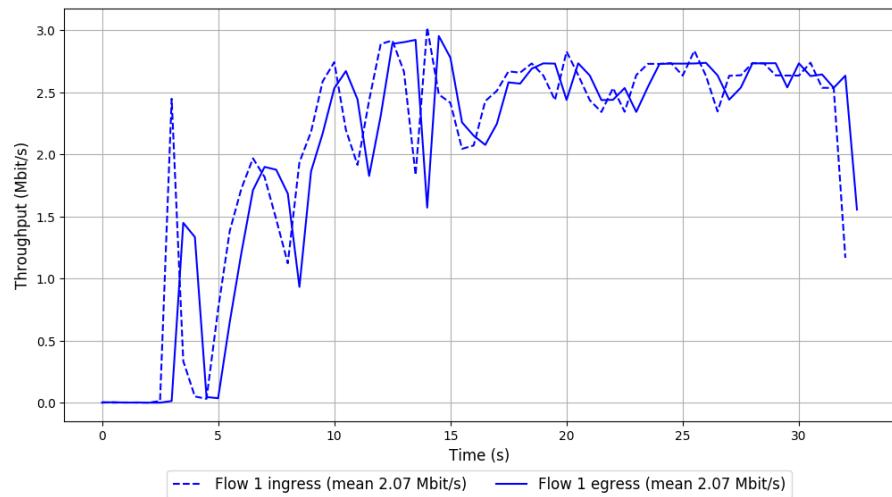


Run 4: Statistics of WebRTC media

```
Start at: 2019-02-11 12:29:17
End at: 2019-02-11 12:29:47
Local clock offset: 6.442 ms
Remote clock offset: 7.916 ms

# Below is generated by plot.py at 2019-02-11 15:56:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 85.612 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 85.612 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-02-11 13:02:03
End at: 2019-02-11 13:02:33
Local clock offset: 1.362 ms
Remote clock offset: 3.111 ms

# Below is generated by plot.py at 2019-02-11 15:56:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.598 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.598 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

