Pantheon Report

Generated at 2019-03-27 10:12:18 (UTC).

Data path: Saudi Arabia on `enp2s0` (*remote*) →AWS India 2 on `ens5` (*local*).

Repeated the test of 21 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

NTP offsets were measured against `nets.org.sg` and have been applied to correct the timestamps in logs.
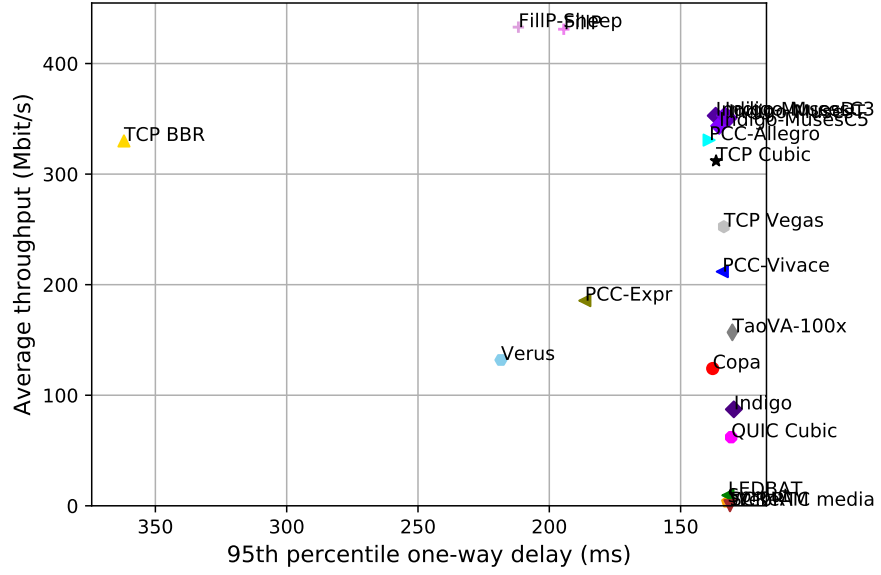
```
System info:
Linux 4.15.0-1034-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912

Git summary:
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfe58e562f4
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
```
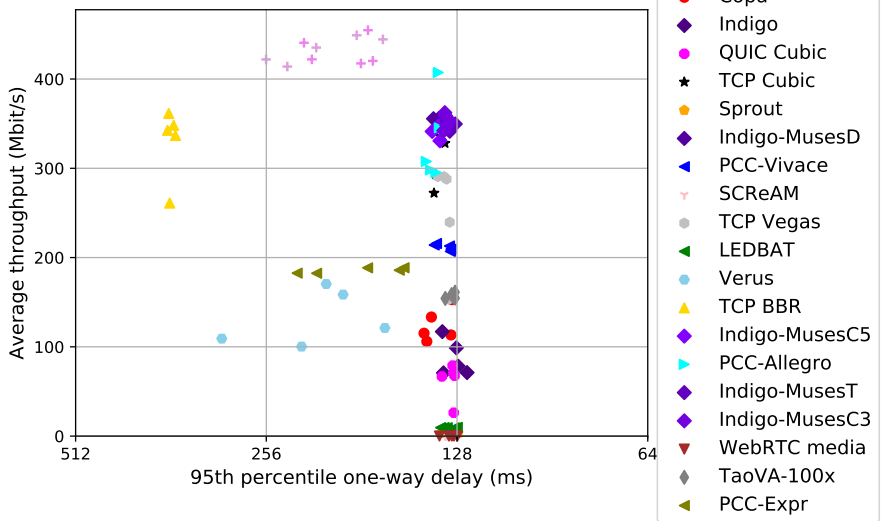
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from Saudi Arabia to AWS India 2, 5 runs of 30s each per scheme
(mean of all runs by scheme)

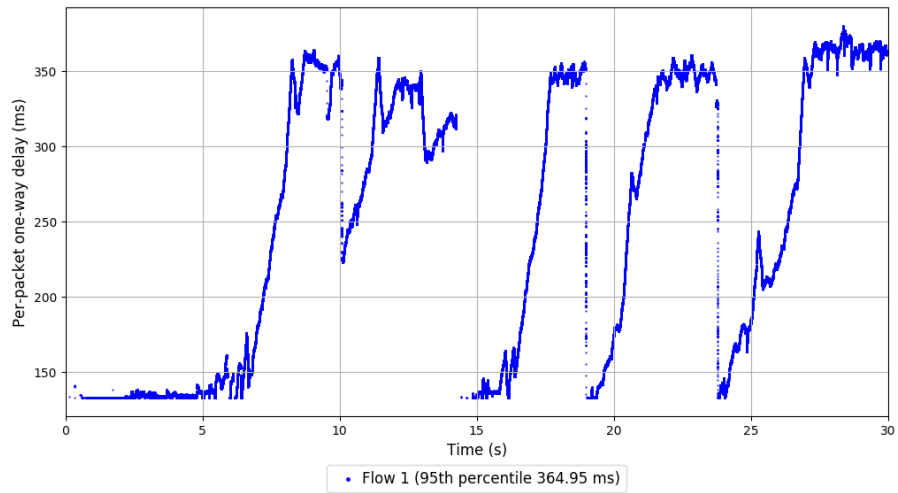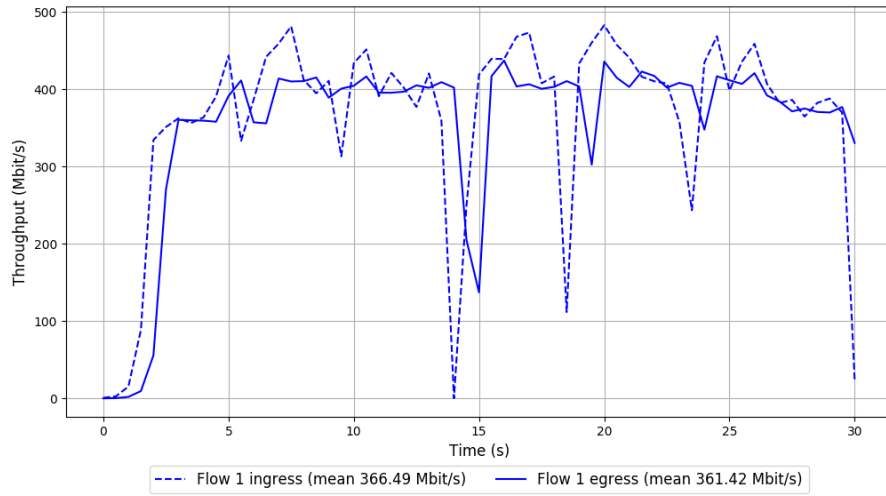test from Saudi Arabia to AWS India 2, 5 runs of 30s each per scheme

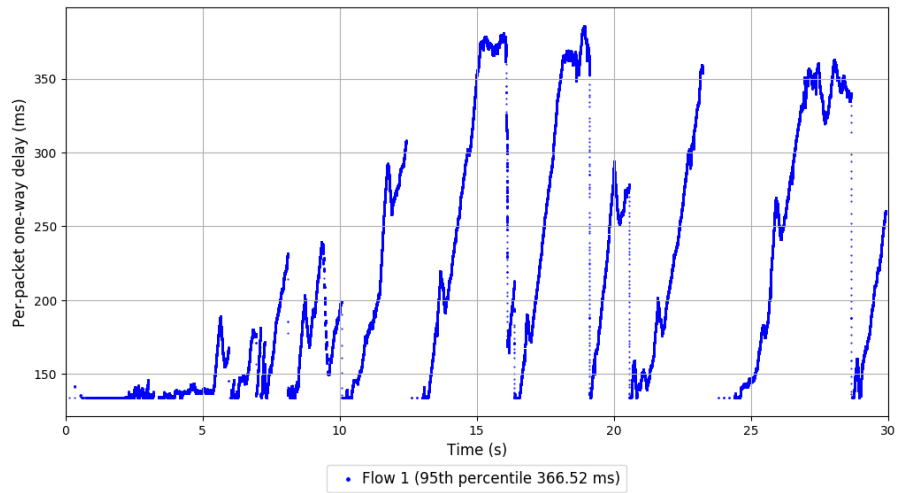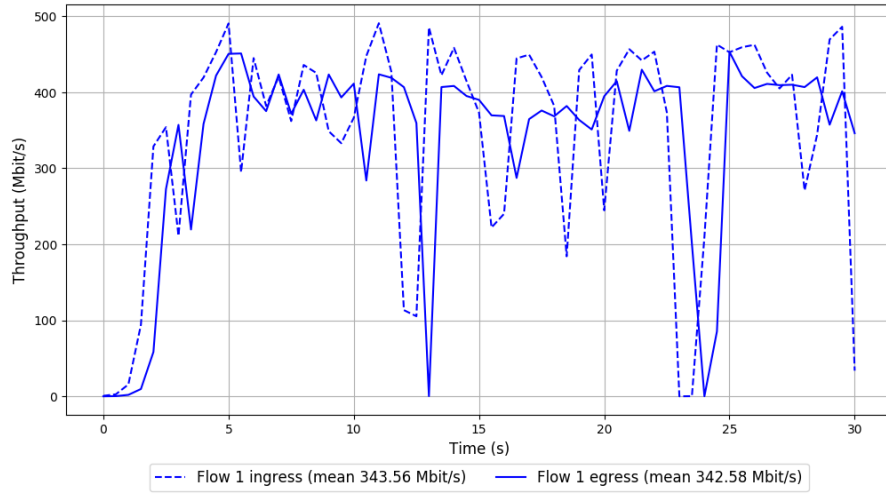| scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	329.99	361.96	2.36
Copa	5	124.16	137.78	0.58
TCP Cubic	5	311.92	136.49	0.68
FillP	5	431.03	194.50	1.67
FillP-Sheep	5	432.91	211.77	1.43
Indigo	5	87.23	129.74	0.68
Indigo-MusesC3	5	352.94	133.16	0.75
Indigo-MusesC5	5	343.62	135.34	0.78
Indigo-MusesD	5	352.83	136.65	0.74
Indigo-MusesT	5	350.69	131.71	0.73
LEDBAT	5	9.49	131.99	1.30
PCC-Allegro	5	330.76	139.14	0.98
PCC-Expr	5	185.57	186.47	0.71
QUIC Cubic	5	62.06	130.74	0.76
SCReAM	5	0.22	131.27	0.61
Sprout	5	3.44	132.18	0.86
TaoVA-100x	5	156.88	130.31	0.65
TCP Vegas	5	252.41	133.55	0.64
Verus	5	131.89	218.42	1.40
PCC-Vivace	5	211.79	134.13	0.67
WebRTC media	5	0.05	131.20	0.01

```
Run 1: Statistics of TCP BBR

Start at: 2019-03-27 06:46:45
End at: 2019-03-27 06:47:15
Local clock offset: 0.373 ms
Remote clock offset: -39.674 ms


# Below is generated by plot.py at 2019-03-27 09:40:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 361.42 Mbit/s
95th percentile per-packet one-way delay: 364.950 ms
Loss rate: 2.11%
-- Flow 1:
Average throughput: 361.42 Mbit/s
95th percentile per-packet one-way delay: 364.950 ms
Loss rate: 2.11%
```
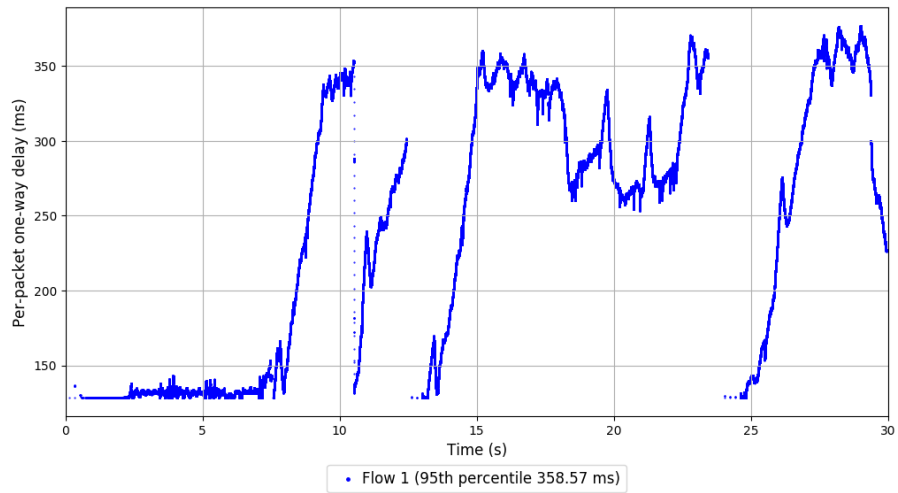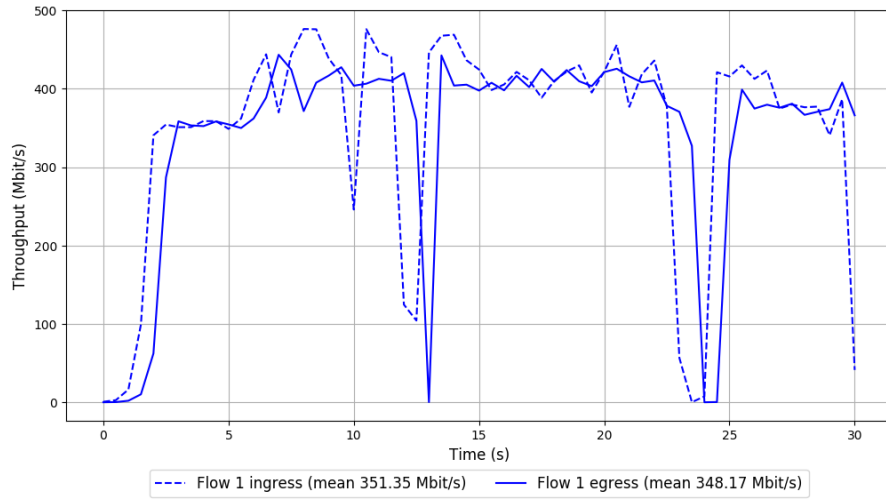
Run 1: Report of TCP BBR — Data Link

```
Run 2: Statistics of TCP BBR

Start at: 2019-03-27 07:32:03
End at: 2019-03-27 07:32:33
Local clock offset: 5.839 ms
Remote clock offset: -38.976 ms


# Below is generated by plot.py at 2019-03-27 09:40:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 342.58 Mbit/s
95th percentile per-packet one-way delay: 366.516 ms
Loss rate: 2.05%
-- Flow 1:
Average throughput: 342.58 Mbit/s
95th percentile per-packet one-way delay: 366.516 ms
Loss rate: 2.05%
```
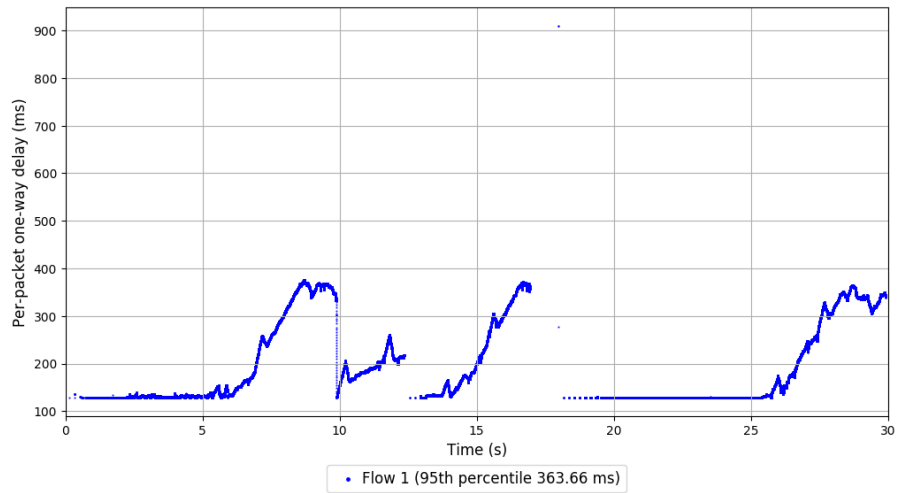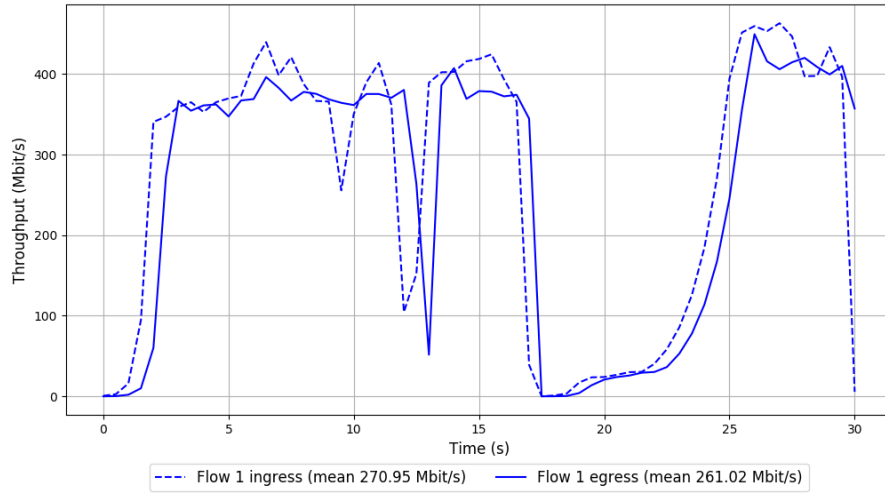
Run 2: Report of TCP BBR — Data Link

```
Run 3: Statistics of TCP BBR

Start at: 2019-03-27 08:00:22
End at: 2019-03-27 08:00:52
Local clock offset: -3.963 ms
Remote clock offset: -32.967 ms


# Below is generated by plot.py at 2019-03-27 09:40:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 348.17 Mbit/s
95th percentile per-packet one-way delay: 358.566 ms
Loss rate: 1.72%
-- Flow 1:
Average throughput: 348.17 Mbit/s
95th percentile per-packet one-way delay: 358.566 ms
Loss rate: 1.72%
```
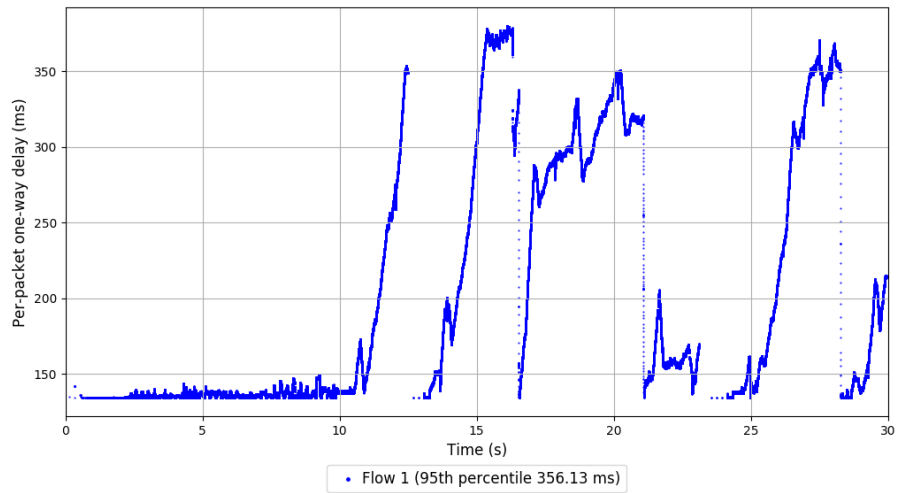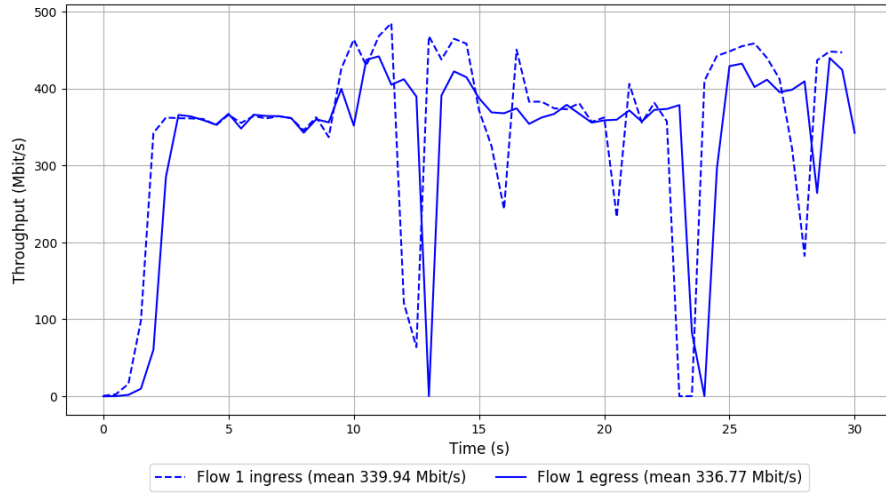
Run 3: Report of TCP BBR — Data Link

```
Run 4: Statistics of TCP BBR

Start at: 2019-03-27 08:45:36
End at: 2019-03-27 08:46:06
Local clock offset: -6.721 ms
Remote clock offset: -36.926 ms

# Below is generated by plot.py at 2019-03-27 09:40:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 261.02 Mbit/s
95th percentile per-packet one-way delay: 363.662 ms
Loss rate: 4.33%
-- Flow 1:
Average throughput: 261.02 Mbit/s
95th percentile per-packet one-way delay: 363.662 ms
Loss rate: 4.33%
```
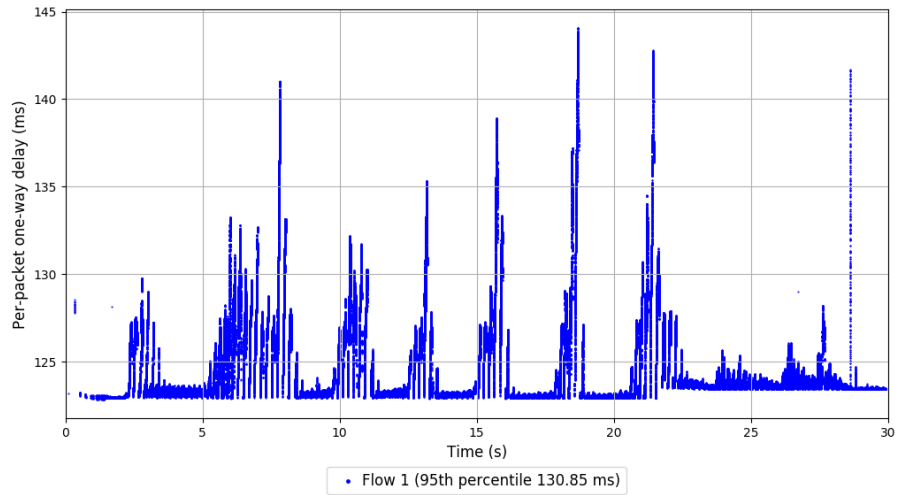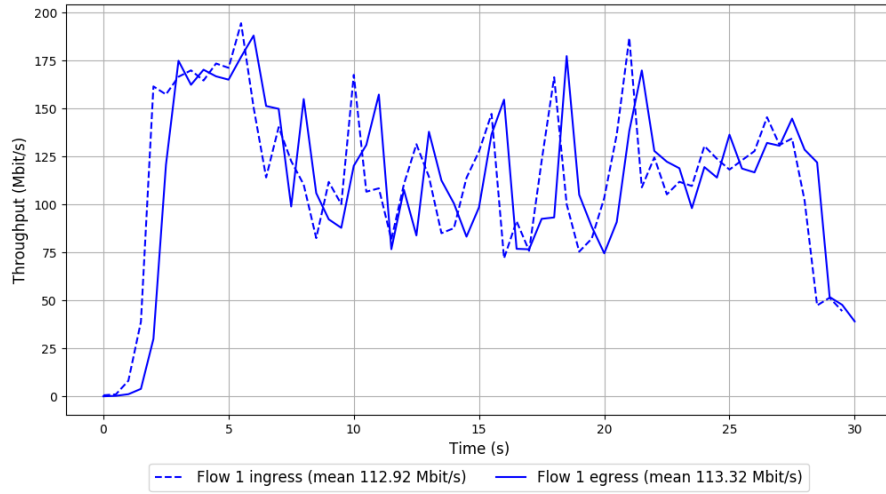
Run 4: Report of TCP BBR — Data Link

```
Run 5: Statistics of TCP BBR

Start at: 2019-03-27 09:13:48
End at: 2019-03-27 09:14:18
Local clock offset: 7.27 ms
Remote clock offset: -40.346 ms


# Below is generated by plot.py at 2019-03-27 09:40:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 336.77 Mbit/s
95th percentile per-packet one-way delay: 356.126 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 336.77 Mbit/s
95th percentile per-packet one-way delay: 356.126 ms
Loss rate: 1.59%
```

Run 5: Report of TCP BBR — Data Link

Flow 1 ingress (mean 339.94 Mbit/s) —— Flow 1 egress (mean 336.77 Mbit/s)

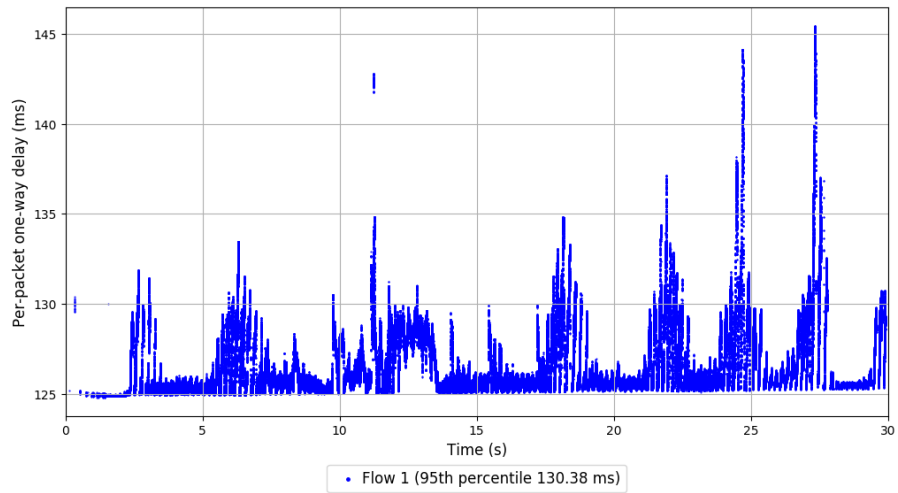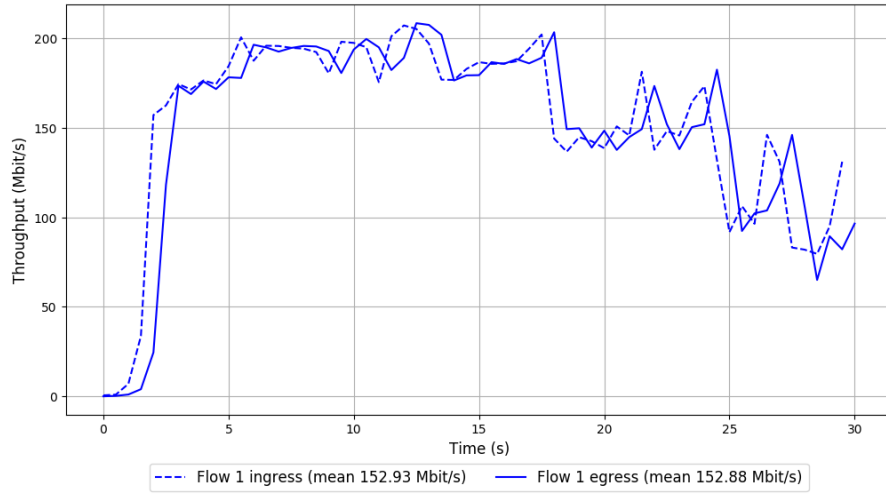
• Flow 1 (95th percentile 356.13 ms)

```
Run 1: Statistics of Copa

Start at: 2019-03-27 07:09:29
End at: 2019-03-27 07:09:59
Local clock offset: 2.037 ms
Remote clock offset: -29.538 ms


# Below is generated by plot.py at 2019-03-27 09:40:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 113.32 Mbit/s
95th percentile per-packet one-way delay: 130.854 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 113.32 Mbit/s
95th percentile per-packet one-way delay: 130.854 ms
Loss rate: 0.29%
```
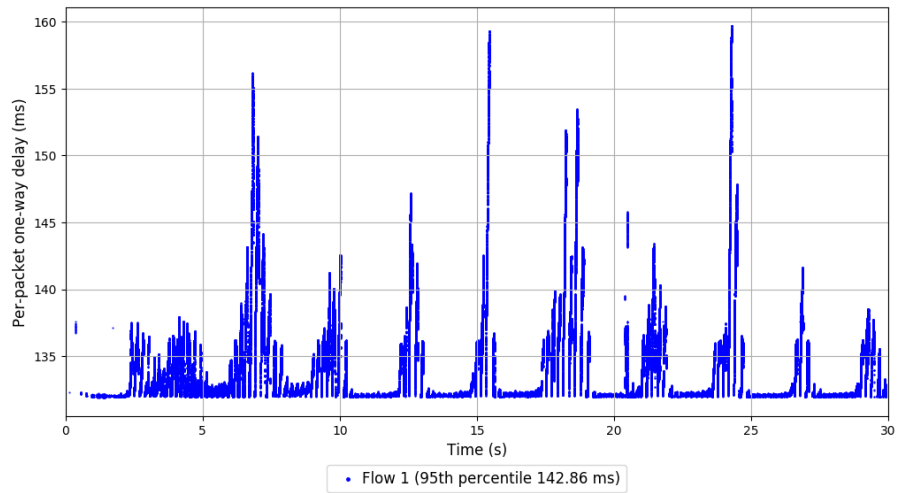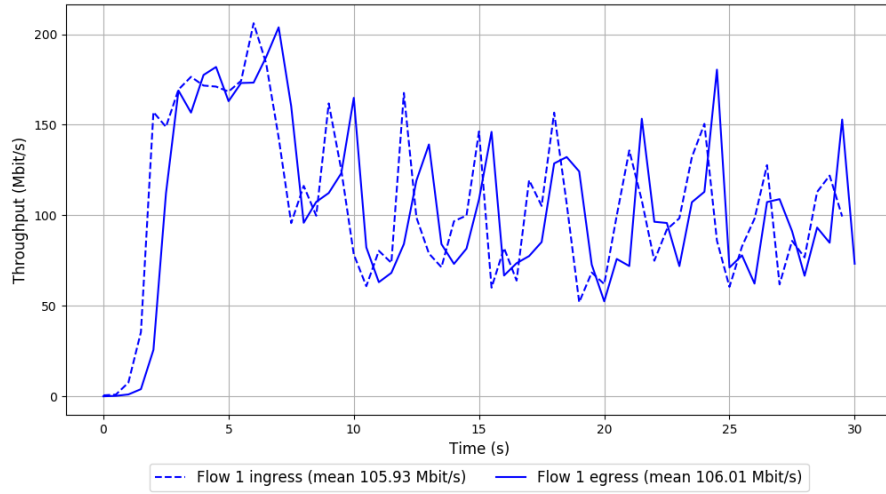
Run 1: Report of Copa — Data Link

Flow 1 ingress (mean 112.92 Mbit/s) — — — Flow 1 egress (mean 113.32 Mbit/s)

• Flow 1 (95th percentile 130.85 ms)

```
Run 2: Statistics of Copa

Start at: 2019-03-27 07:49:04
End at: 2019-03-27 07:49:34
Local clock offset: 1.319 ms
Remote clock offset: -29.483 ms


# Below is generated by plot.py at 2019-03-27 09:40:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 152.88 Mbit/s
95th percentile per-packet one-way delay: 130.380 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 152.88 Mbit/s
95th percentile per-packet one-way delay: 130.380 ms
Loss rate: 0.70%
```
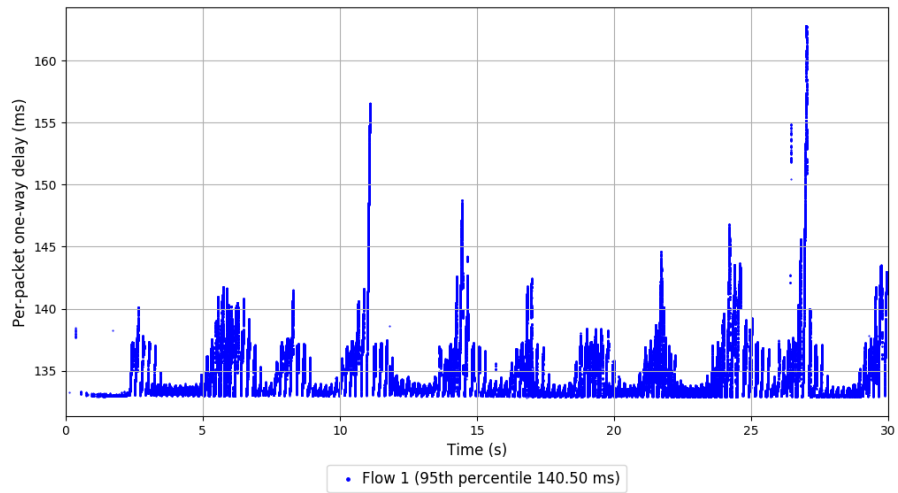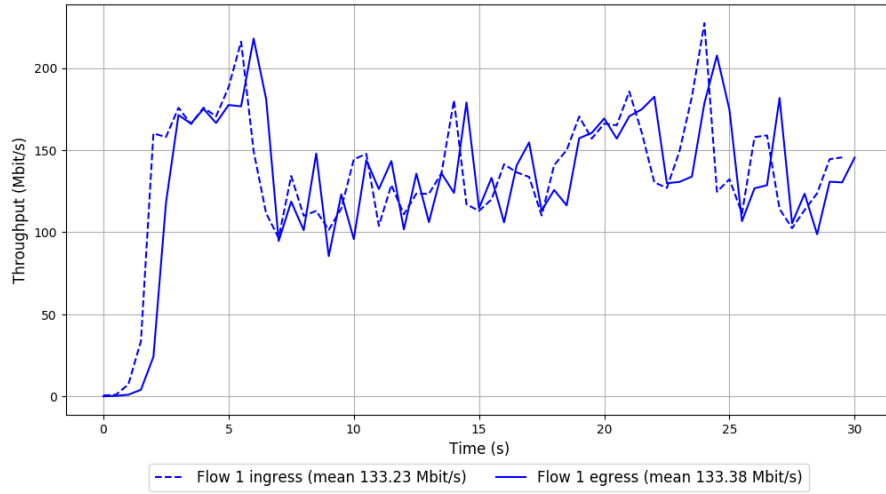
Run 2: Report of Copa — Data Link

```
Run 3: Statistics of Copa

Start at: 2019-03-27 08:22:54
End at: 2019-03-27 08:23:24
Local clock offset: -4.697 ms
Remote clock offset: -37.006 ms


# Below is generated by plot.py at 2019-03-27 09:40:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 106.01 Mbit/s
95th percentile per-packet one-way delay: 142.861 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 106.01 Mbit/s
95th percentile per-packet one-way delay: 142.861 ms
Loss rate: 0.58%
```
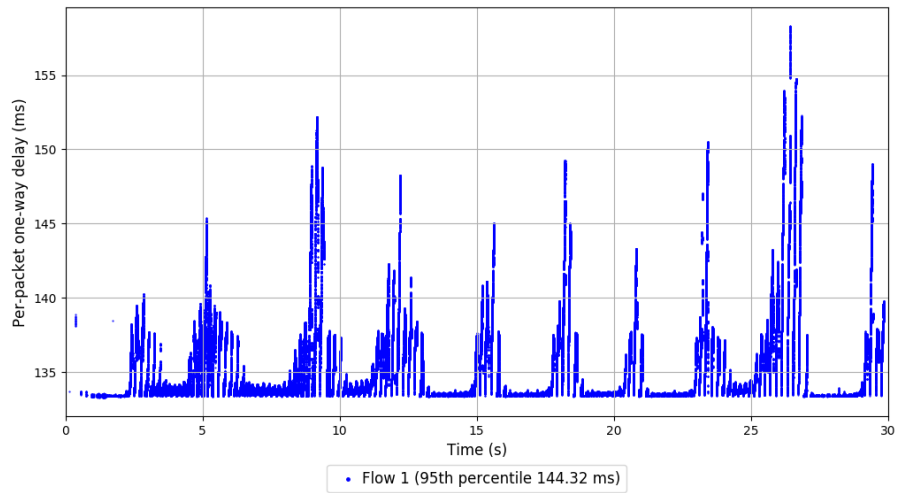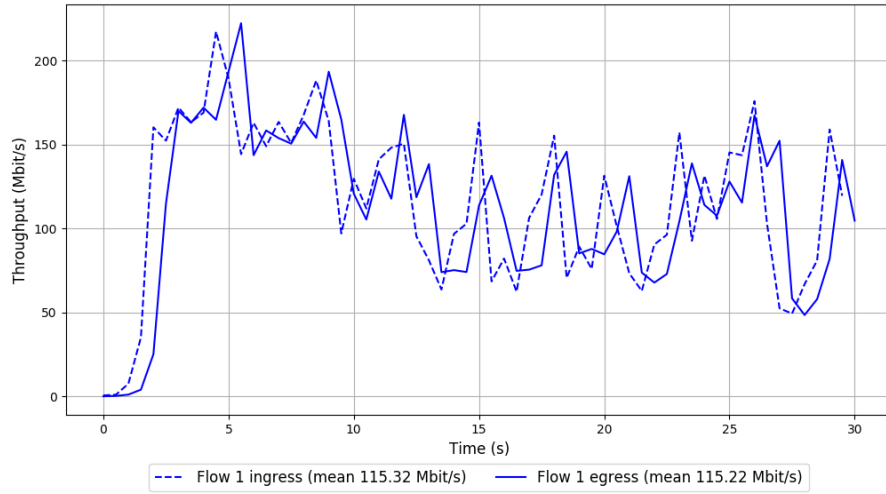
Run 3: Report of Copa — Data Link

Flow 1 ingress (mean 105.93 Mbit/s)   Flow 1 egress (mean 106.01 Mbit/s)

Flow 1 (95th percentile 142.86 ms)

```
Run 4: Statistics of Copa

Start at: 2019-03-27 09:02:36
End at: 2019-03-27 09:03:06
Local clock offset: 4.834 ms
Remote clock offset: -39.643 ms


# Below is generated by plot.py at 2019-03-27 09:41:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 133.38 Mbit/s
95th percentile per-packet one-way delay: 140.499 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 133.38 Mbit/s
95th percentile per-packet one-way delay: 140.499 ms
Loss rate: 0.54%
```
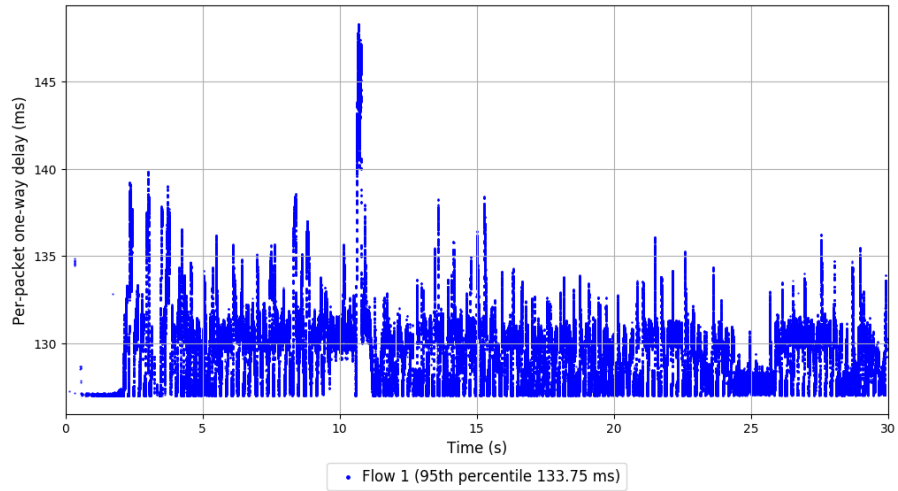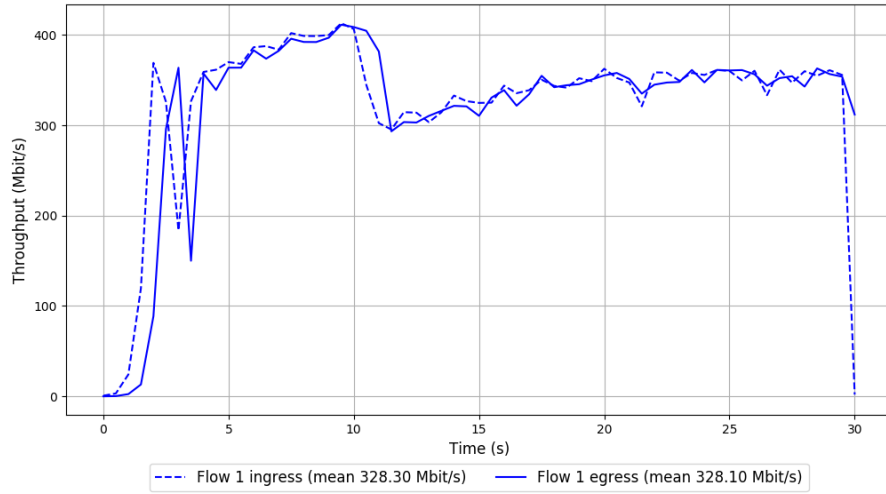
Run 4: Report of Copa — Data Link

```
Run 5: Statistics of Copa

Start at: 2019-03-27 09:30:48
End at: 2019-03-27 09:31:18
Local clock offset: 5.994 ms
Remote clock offset: -40.359 ms


# Below is generated by plot.py at 2019-03-27 09:41:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 115.22 Mbit/s
95th percentile per-packet one-way delay: 144.316 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 115.22 Mbit/s
95th percentile per-packet one-way delay: 144.316 ms
Loss rate: 0.78%
```
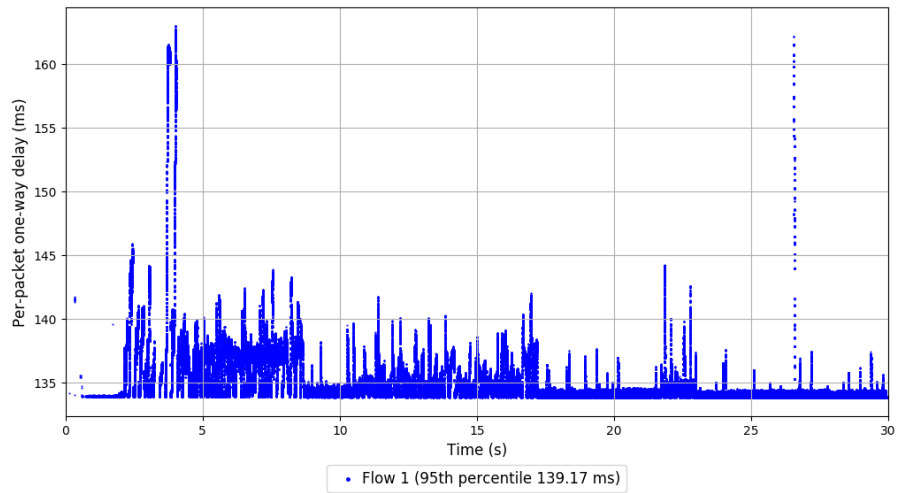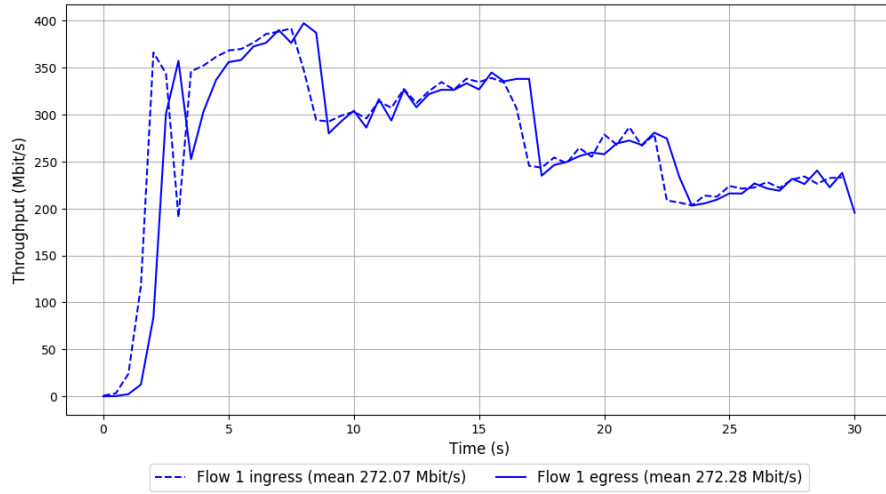
Run 5: Report of Copa — Data Link

```
Run 1: Statistics of TCP Cubic

Start at: 2019-03-27 06:38:19
End at: 2019-03-27 06:38:49
Local clock offset: 1.881 ms
Remote clock offset: -32.008 ms


# Below is generated by plot.py at 2019-03-27 09:42:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 328.10 Mbit/s
95th percentile per-packet one-way delay: 133.750 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 328.10 Mbit/s
95th percentile per-packet one-way delay: 133.750 ms
Loss rate: 0.72%
```
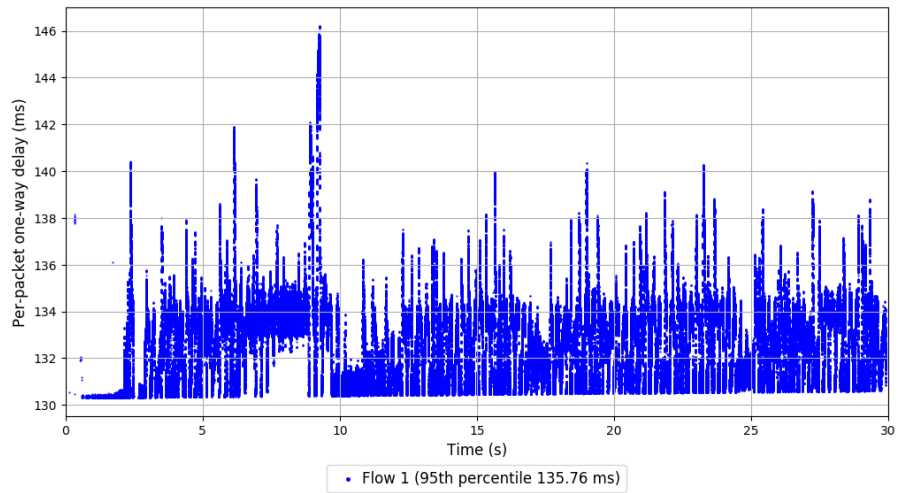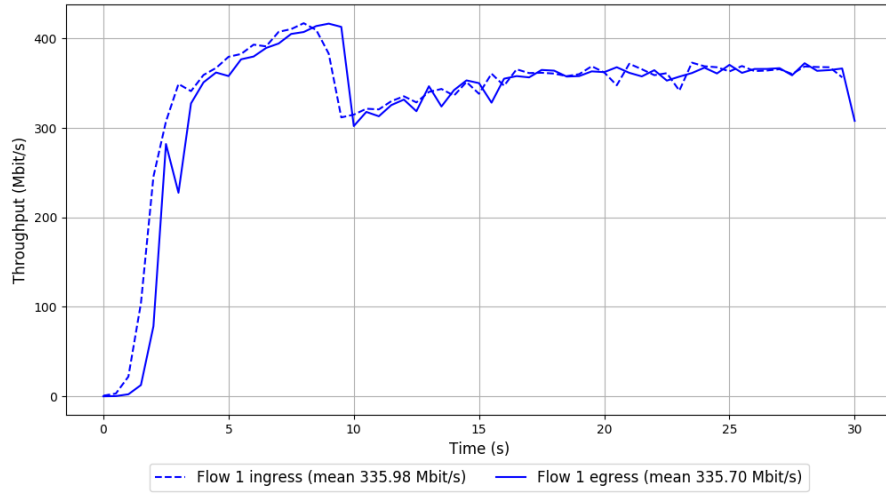
Run 1: Report of TCP Cubic — Data Link

```
Run 2: Statistics of TCP Cubic

Start at: 2019-03-27 07:17:46
End at: 2019-03-27 07:18:16
Local clock offset: 3.742 ms
Remote clock offset: -38.538 ms


# Below is generated by plot.py at 2019-03-27 09:42:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 272.28 Mbit/s
95th percentile per-packet one-way delay: 139.171 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 272.28 Mbit/s
95th percentile per-packet one-way delay: 139.171 ms
Loss rate: 0.57%
```
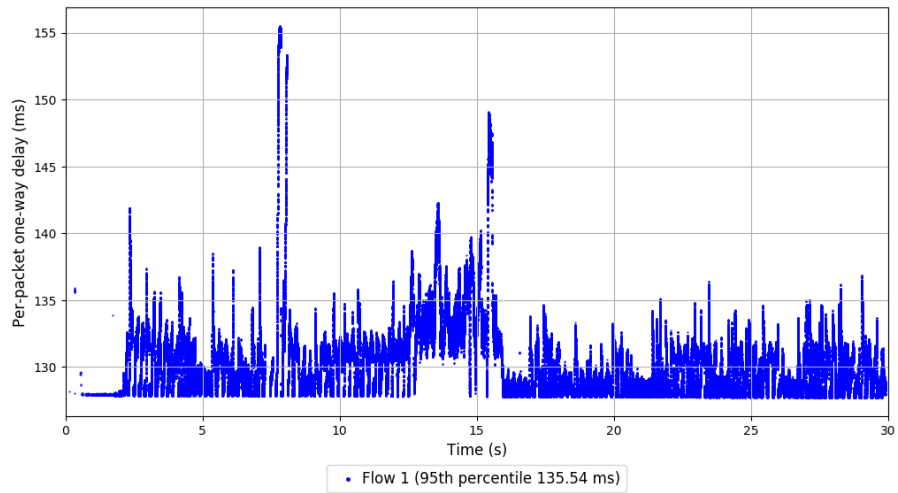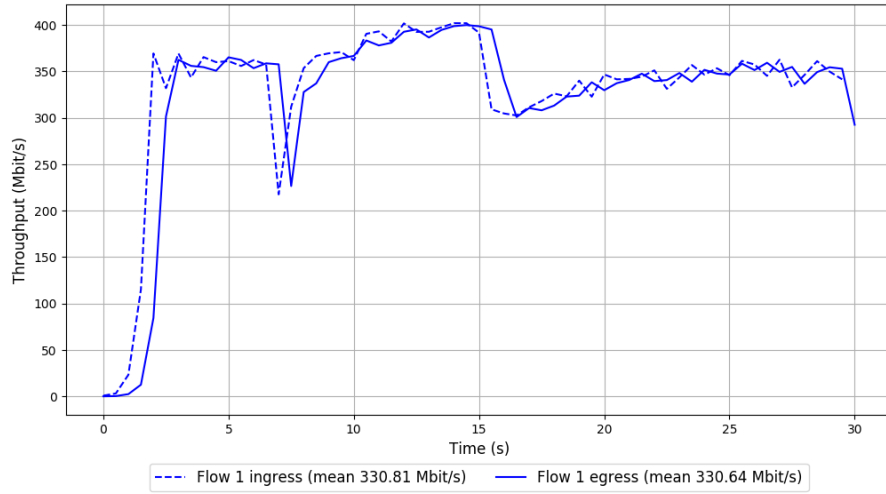
Run 2: Report of TCP Cubic — Data Link

```
Run 3: Statistics of TCP Cubic

Start at: 2019-03-27 07:51:54
End at: 2019-03-27 07:52:24
Local clock offset: 0.776 ms
Remote clock offset: -33.963 ms


# Below is generated by plot.py at 2019-03-27 09:43:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 335.70 Mbit/s
95th percentile per-packet one-way delay: 135.762 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 335.70 Mbit/s
95th percentile per-packet one-way delay: 135.762 ms
Loss rate: 0.74%
```
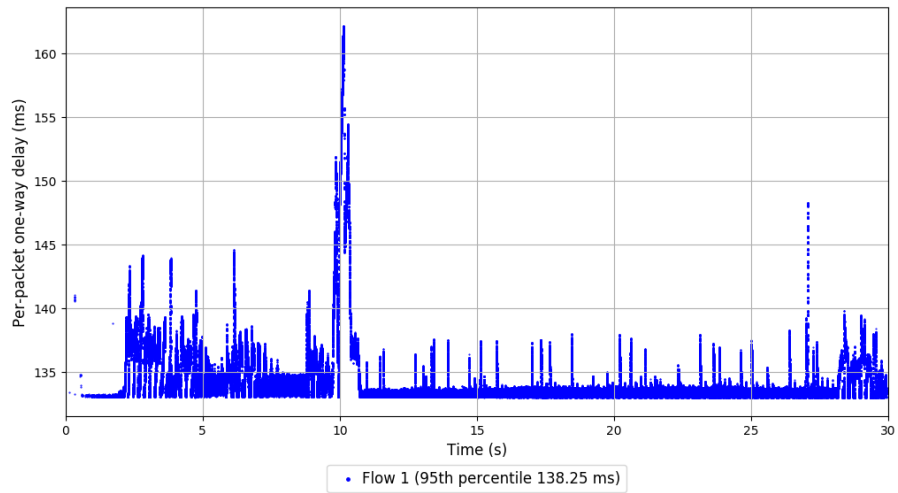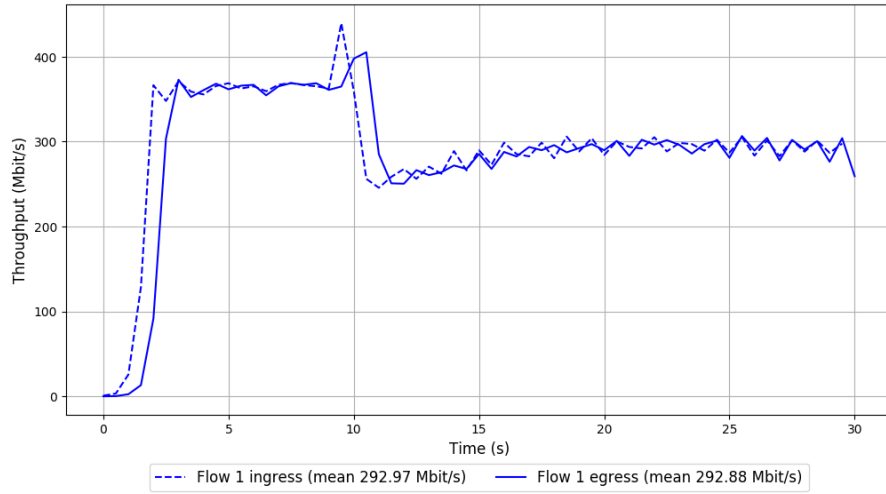
Run 3: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 335.98 Mbit/s)   Flow 1 egress (mean 335.70 Mbit/s)

Flow 1 (95th percentile 135.76 ms)

```
Run 4: Statistics of TCP Cubic

Start at: 2019-03-27 08:25:39
End at: 2019-03-27 08:26:09
Local clock offset: -3.191 ms
Remote clock offset: -31.752 ms


# Below is generated by plot.py at 2019-03-27 09:43:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 330.64 Mbit/s
95th percentile per-packet one-way delay: 135.540 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 330.64 Mbit/s
95th percentile per-packet one-way delay: 135.540 ms
Loss rate: 0.71%
```
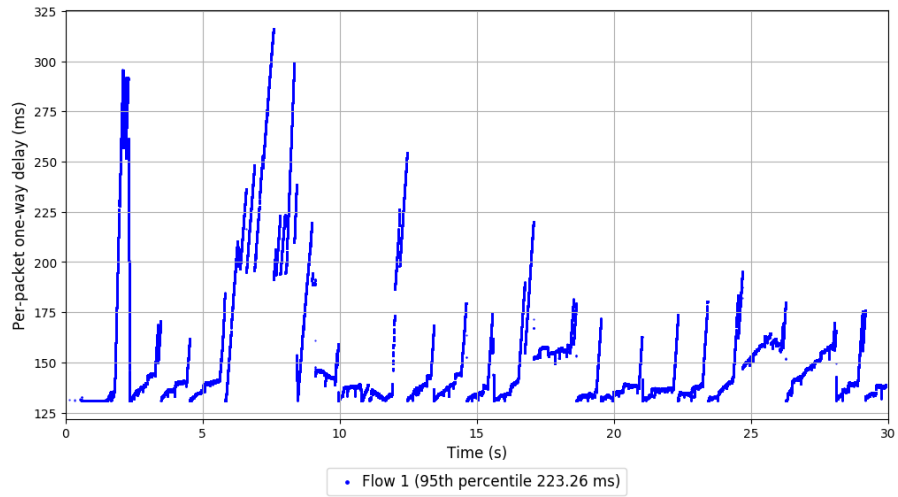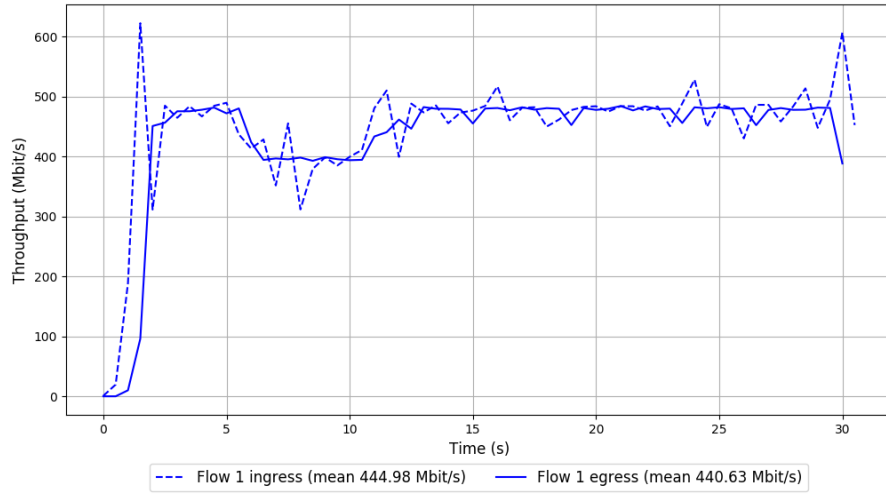
Run 4: Report of TCP Cubic — Data Link

```
Run 5: Statistics of TCP Cubic

Start at: 2019-03-27 09:05:25
End at: 2019-03-27 09:05:55
Local clock offset: 6.441 ms
Remote clock offset: -39.991 ms


# Below is generated by plot.py at 2019-03-27 09:43:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 292.88 Mbit/s
95th percentile per-packet one-way delay: 138.246 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 292.88 Mbit/s
95th percentile per-packet one-way delay: 138.246 ms
Loss rate: 0.67%
```

Run 5: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 292.97 Mbit/s)   Flow 1 egress (mean 292.88 Mbit/s)
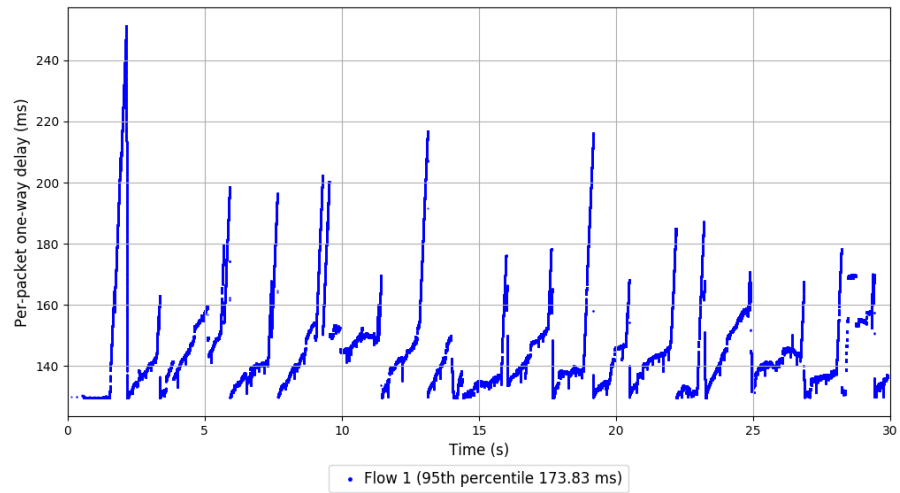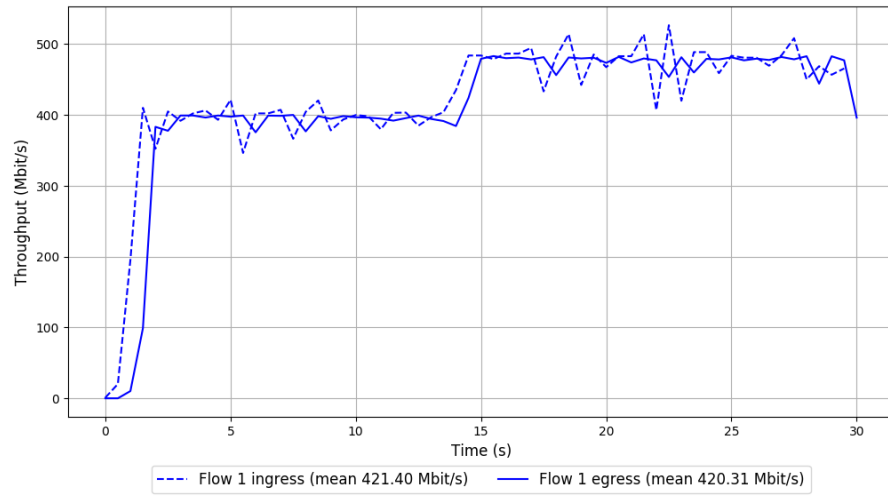

Flow 1 (95th percentile 138.25 ms)

```
Run 1: Statistics of FillP

Start at: 2019-03-27 06:31:07
End at: 2019-03-27 06:31:37
Local clock offset: 0.427 ms
Remote clock offset: -37.853 ms


# Below is generated by plot.py at 2019-03-27 09:45:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 440.63 Mbit/s
95th percentile per-packet one-way delay: 223.265 ms
Loss rate: 4.76%
-- Flow 1:
Average throughput: 440.63 Mbit/s
95th percentile per-packet one-way delay: 223.265 ms
Loss rate: 4.76%
```

Run 1: Report of FillP — Data Link

Flow 1 ingress (mean 444.98 Mbit/s)   Flow 1 egress (mean 440.63 Mbit/s)

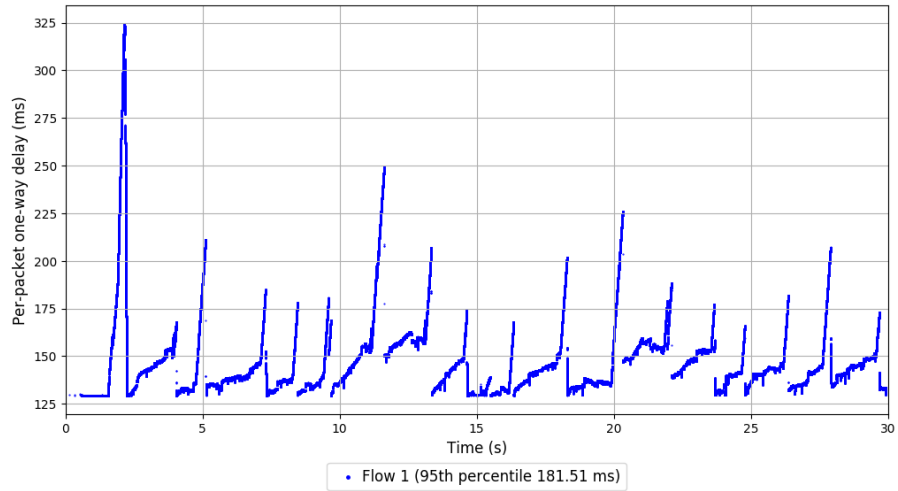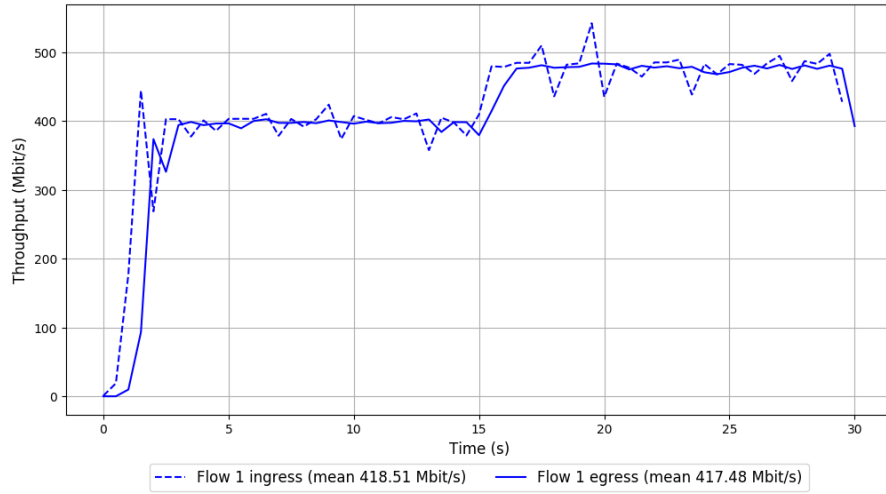Flow 1 (95th percentile 223.26 ms)

```
Run 2: Statistics of FillP

Start at: 2019-03-27 07:10:49
End at: 2019-03-27 07:11:19
Local clock offset: 1.758 ms
Remote clock offset: -36.547 ms


# Below is generated by plot.py at 2019-03-27 09:46:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 420.31 Mbit/s
95th percentile per-packet one-way delay: 173.834 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 420.31 Mbit/s
95th percentile per-packet one-way delay: 173.834 ms
Loss rate: 0.92%
```
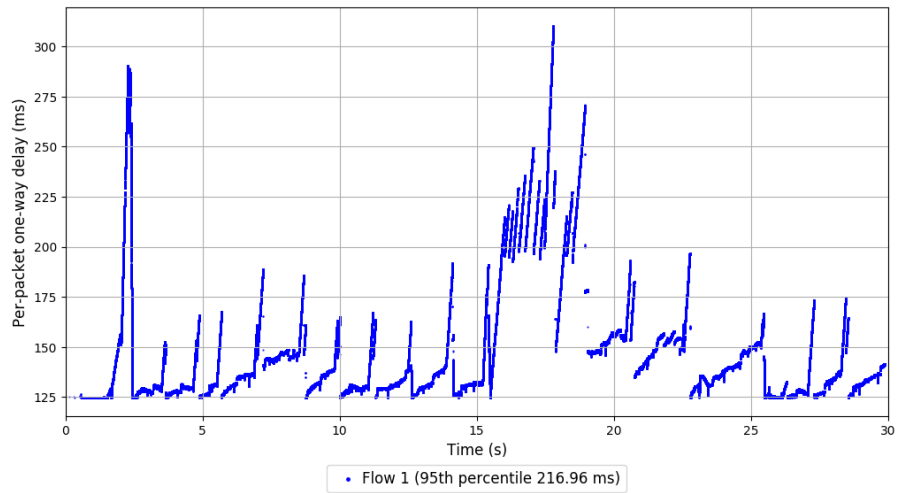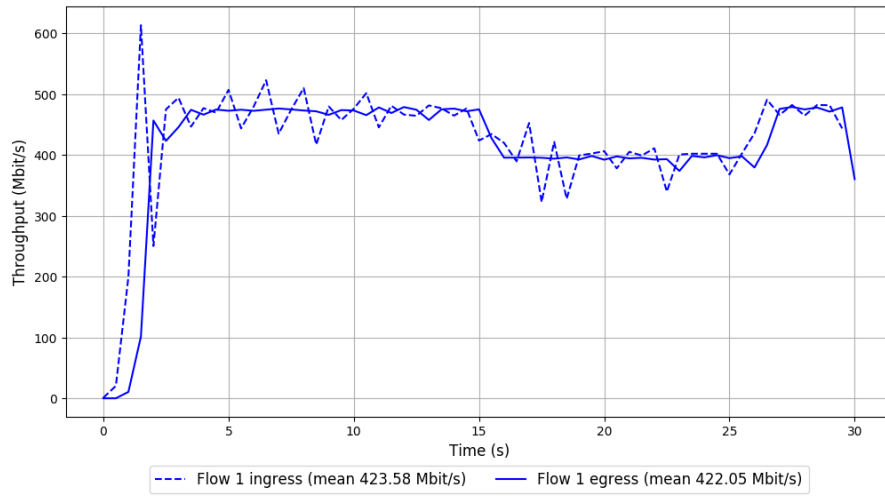
Run 2: Report of FillP — Data Link

```
Run 3: Statistics of FillP

Start at: 2019-03-27 07:50:28
End at: 2019-03-27 07:50:58
Local clock offset: 1.465 ms
Remote clock offset: -33.271 ms


# Below is generated by plot.py at 2019-03-27 09:46:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 417.48 Mbit/s
95th percentile per-packet one-way delay: 181.508 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 417.48 Mbit/s
95th percentile per-packet one-way delay: 181.508 ms
Loss rate: 0.91%
```
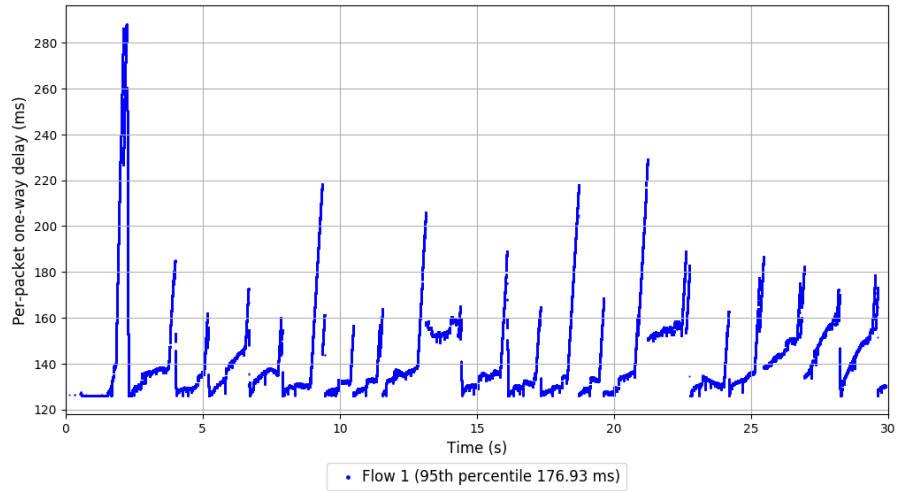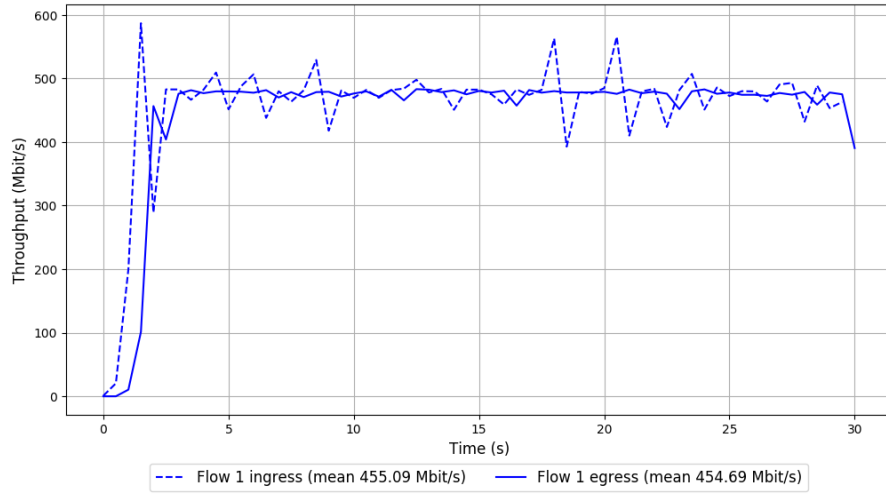
Run 3: Report of FillP — Data Link

```
Run 4: Statistics of FillP

Start at: 2019-03-27 08:24:13
End at: 2019-03-27 08:24:43
Local clock offset: -4.776 ms
Remote clock offset: -29.924 ms


# Below is generated by plot.py at 2019-03-27 09:48:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 422.05 Mbit/s
95th percentile per-packet one-way delay: 216.963 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 422.05 Mbit/s
95th percentile per-packet one-way delay: 216.963 ms
Loss rate: 1.02%
```

Run 4: Report of FillP — Data Link

```
Run 5: Statistics of FillP

Start at: 2019-03-27 09:03:57
End at: 2019-03-27 09:04:27
Local clock offset: 5.521 ms
Remote clock offset: -33.67 ms


# Below is generated by plot.py at 2019-03-27 09:49:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 454.69 Mbit/s
95th percentile per-packet one-way delay: 176.926 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 454.69 Mbit/s
95th percentile per-packet one-way delay: 176.926 ms
Loss rate: 0.75%
```

Run 5: Report of FillP — Data Link

```
Run 1: Statistics of FillP-Sheep

Start at: 2019-03-27 06:41:09
End at: 2019-03-27 06:41:39
Local clock offset: 0.625 ms
Remote clock offset: -39.768 ms


# Below is generated by plot.py at 2019-03-27 09:49:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 421.95 Mbit/s
95th percentile per-packet one-way delay: 256.244 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 421.95 Mbit/s
95th percentile per-packet one-way delay: 256.244 ms
Loss rate: 0.83%
```
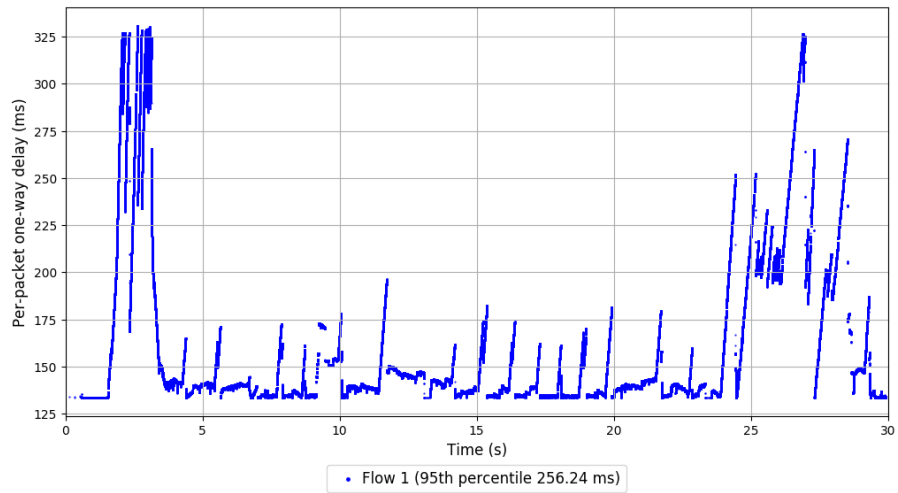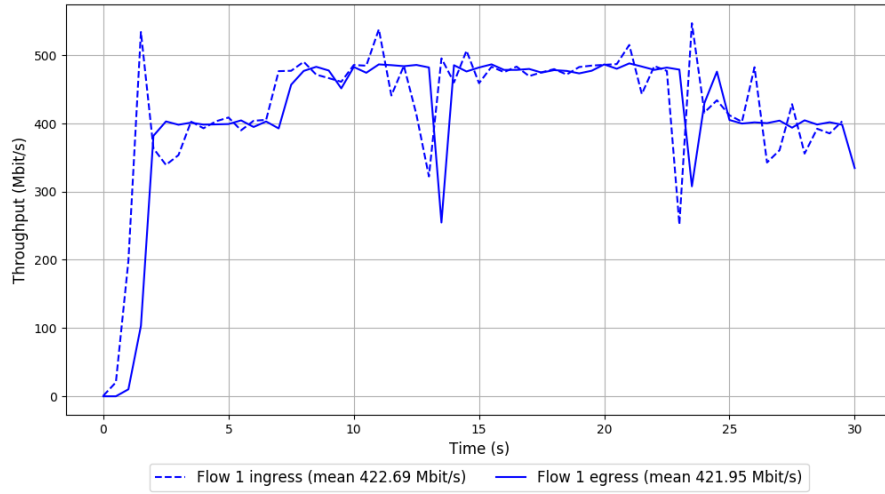
Run 1: Report of FillP-Sheep — Data Link

```
Run 2: Statistics of FillP-Sheep

Start at: 2019-03-27 07:20:44
End at: 2019-03-27 07:21:14
Local clock offset: 3.703 ms
Remote clock offset: -30.812 ms


# Below is generated by plot.py at 2019-03-27 09:49:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 444.41 Mbit/s
95th percentile per-packet one-way delay: 167.575 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 444.41 Mbit/s
95th percentile per-packet one-way delay: 167.575 ms
Loss rate: 0.86%
```
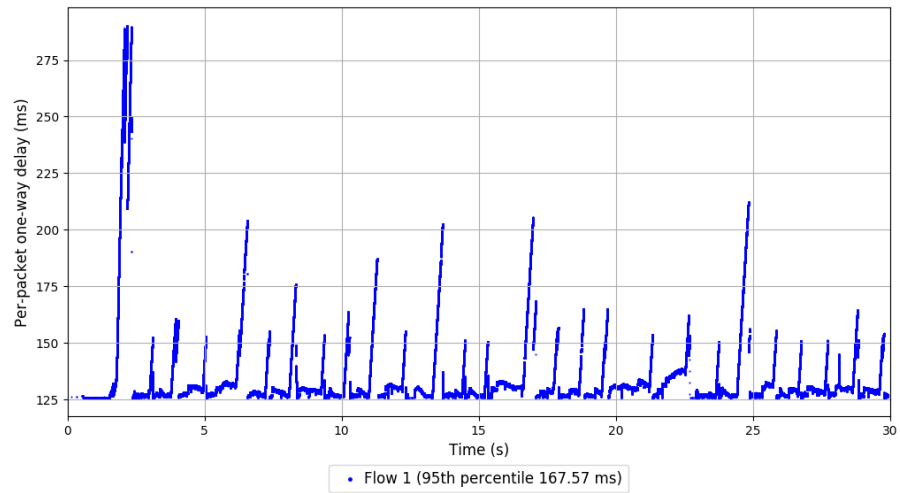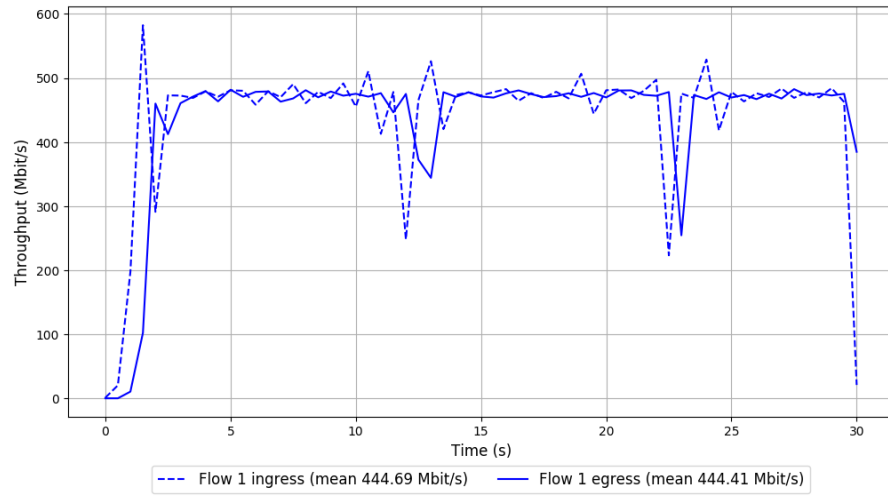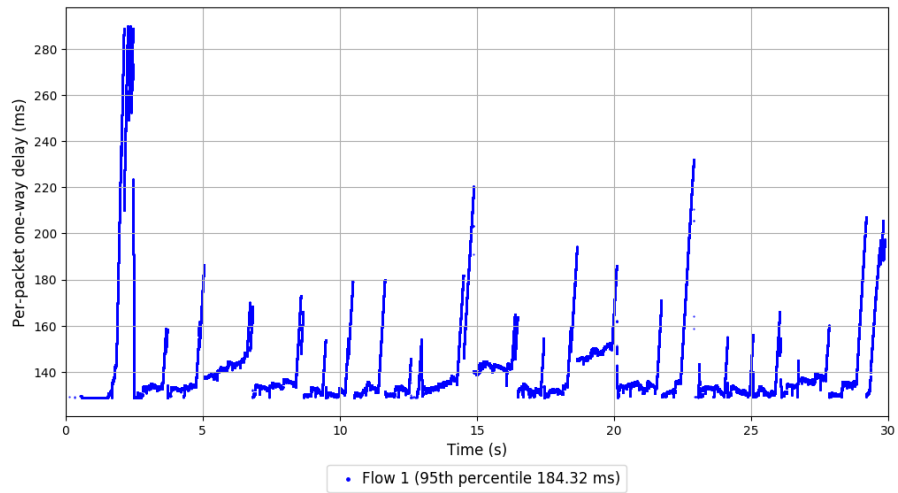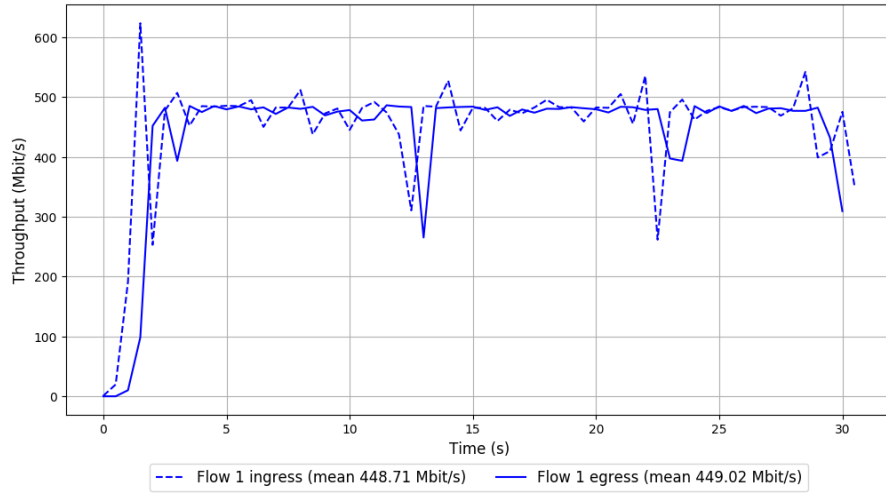
Run 2: Report of FillP-Sheep — Data Link

```
Run 3: Statistics of FillP-Sheep

Start at: 2019-03-27 07:54:44
End at: 2019-03-27 07:55:14
Local clock offset: -2.384 ms
Remote clock offset: -33.592 ms


# Below is generated by plot.py at 2019-03-27 09:49:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 449.02 Mbit/s
95th percentile per-packet one-way delay: 184.321 ms
Loss rate: 3.92%
-- Flow 1:
Average throughput: 449.02 Mbit/s
95th percentile per-packet one-way delay: 184.321 ms
Loss rate: 3.92%
```

Run 3: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 448.71 Mbit/s) --- Flow 1 egress (mean 449.02 Mbit/s)
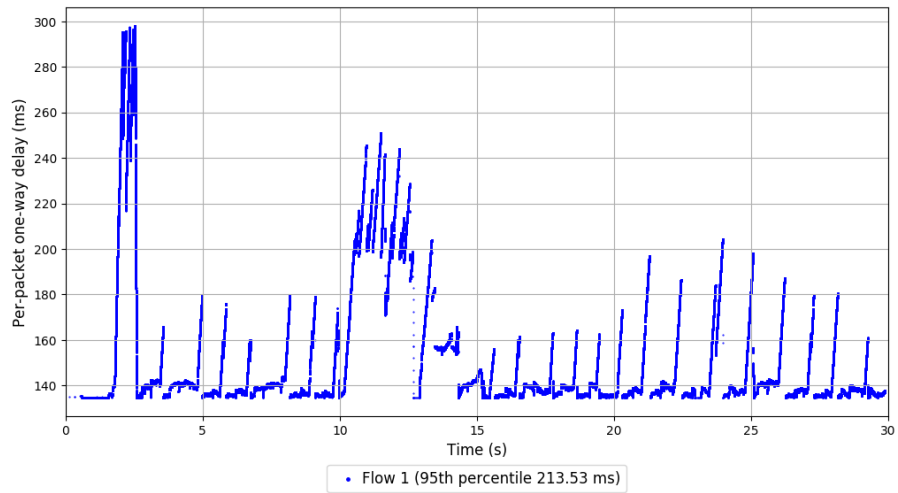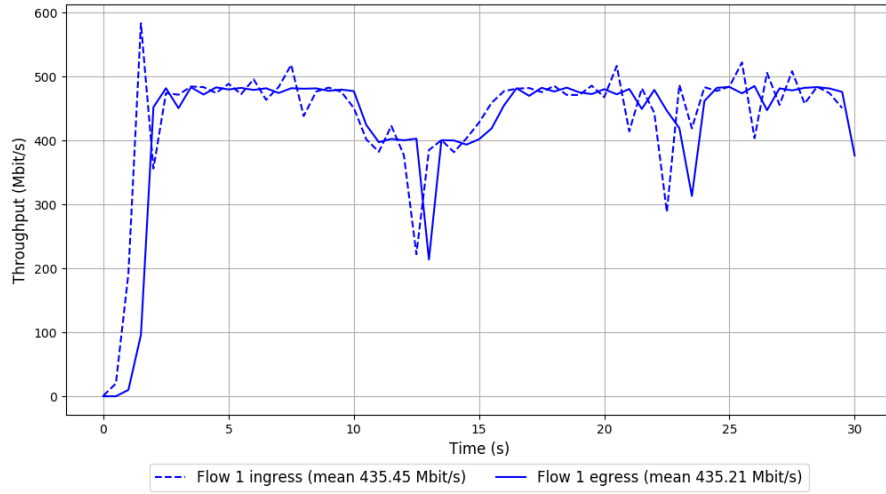

Flow 1 (95th percentile 184.32 ms)

```
Run 4: Statistics of FillP-Sheep

Start at: 2019-03-27 08:34:15
End at: 2019-03-27 08:34:45
Local clock offset: -3.538 ms
Remote clock offset: -39.192 ms


# Below is generated by plot.py at 2019-03-27 09:52:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 435.21 Mbit/s
95th percentile per-packet one-way delay: 213.532 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 435.21 Mbit/s
95th percentile per-packet one-way delay: 213.532 ms
Loss rate: 0.82%
```

Run 4: Report of FillP-Sheep — Data Link

```
Run 5: Statistics of FillP-Sheep

Start at: 2019-03-27 09:08:14
End at: 2019-03-27 09:08:44
Local clock offset: 6.113 ms
Remote clock offset: -34.463 ms


# Below is generated by plot.py at 2019-03-27 09:52:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 413.96 Mbit/s
95th percentile per-packet one-way delay: 237.189 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 413.96 Mbit/s
95th percentile per-packet one-way delay: 237.189 ms
Loss rate: 0.73%
```
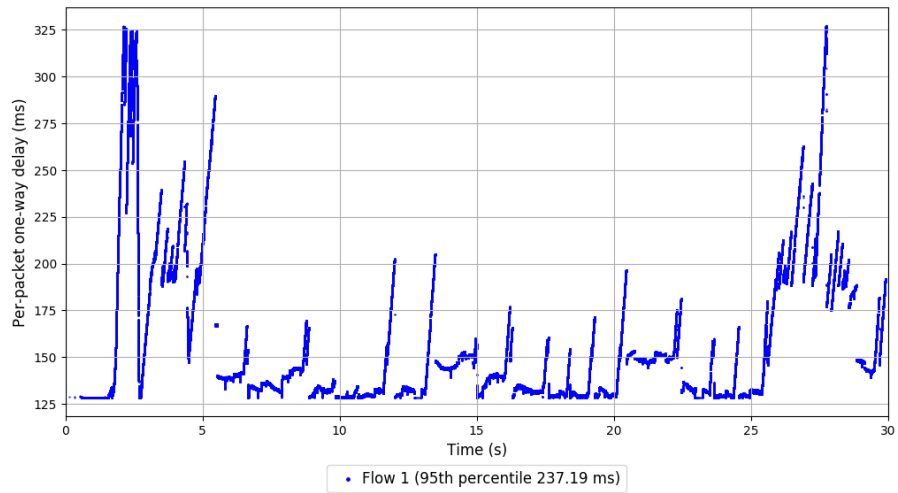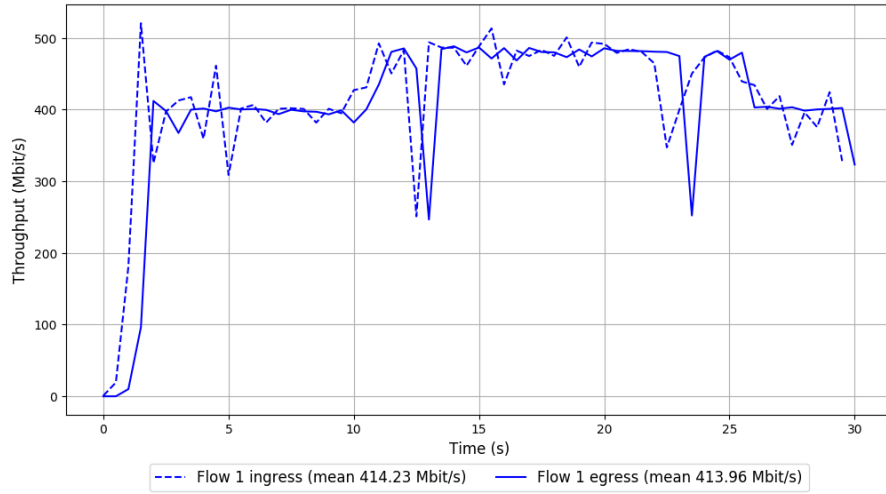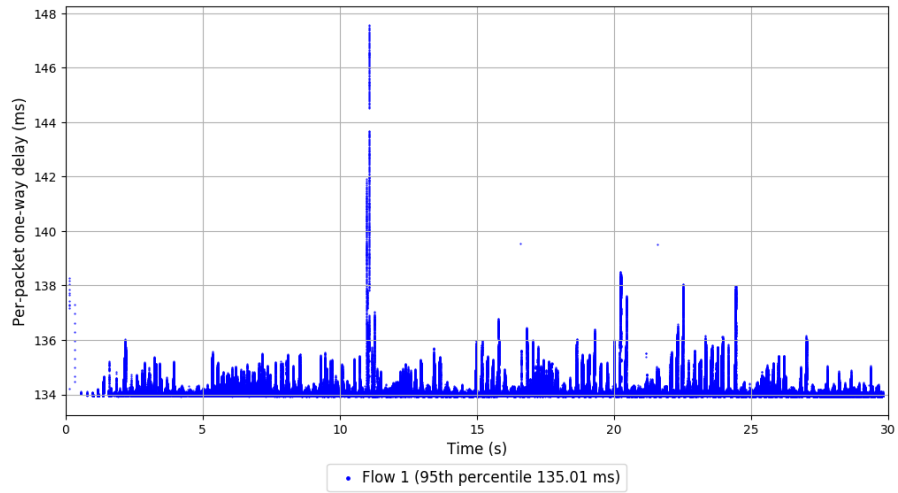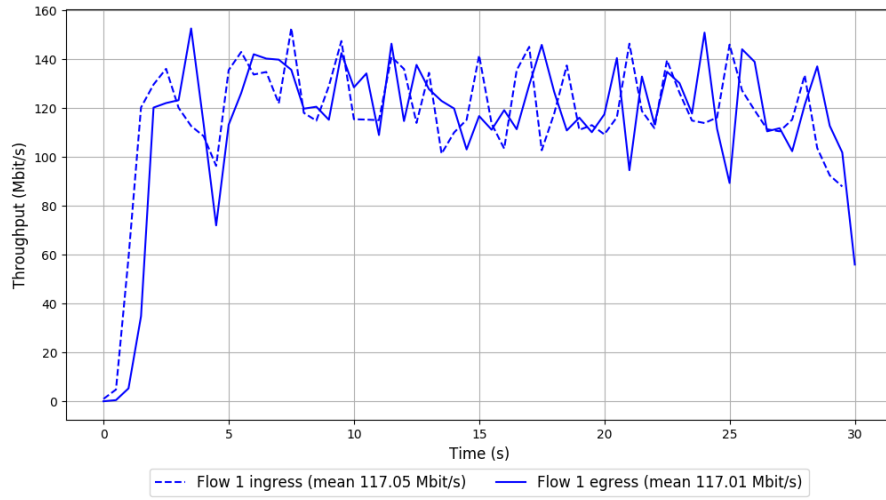
Run 5: Report of FillP-Sheep — Data Link

```
Run 1: Statistics of Indigo

Start at: 2019-03-27 06:59:07
End at: 2019-03-27 06:59:37
Local clock offset: 2.573 ms
Remote clock offset: -39.803 ms


# Below is generated by plot.py at 2019-03-27 09:52:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 117.01 Mbit/s
95th percentile per-packet one-way delay: 135.014 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 117.01 Mbit/s
95th percentile per-packet one-way delay: 135.014 ms
Loss rate: 0.68%
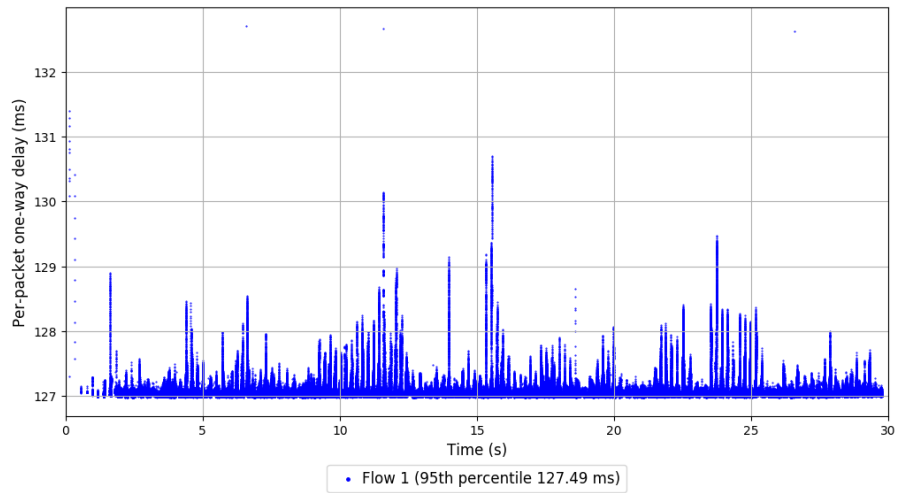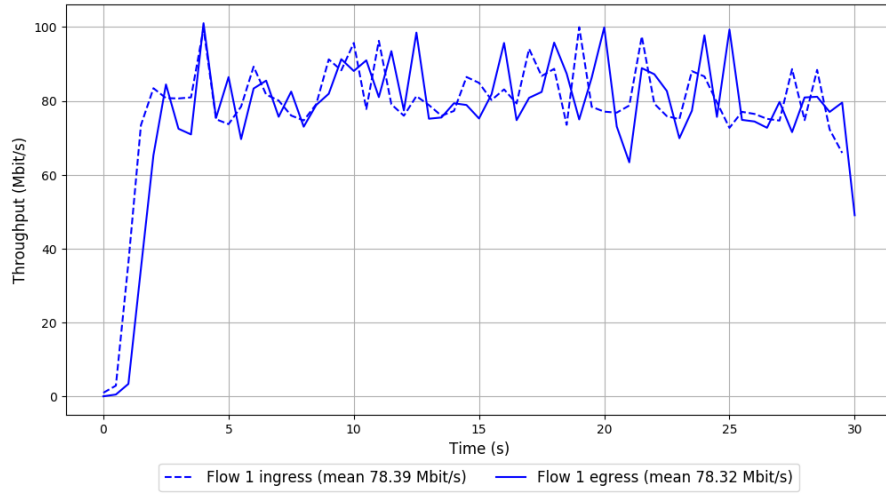```

Run 1: Report of Indigo — Data Link

```
Run 2: Statistics of Indigo

Start at: 2019-03-27 07:38:46
End at: 2019-03-27 07:39:16
Local clock offset: 2.968 ms
Remote clock offset: -33.722 ms

Below is generated by plot.py at 2019-03-27 09:52:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 78.32 Mbit/s
95th percentile per-packet one-way delay: 127.494 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 78.32 Mbit/s
95th percentile per-packet one-way delay: 127.494 ms
Loss rate: 0.74%
```
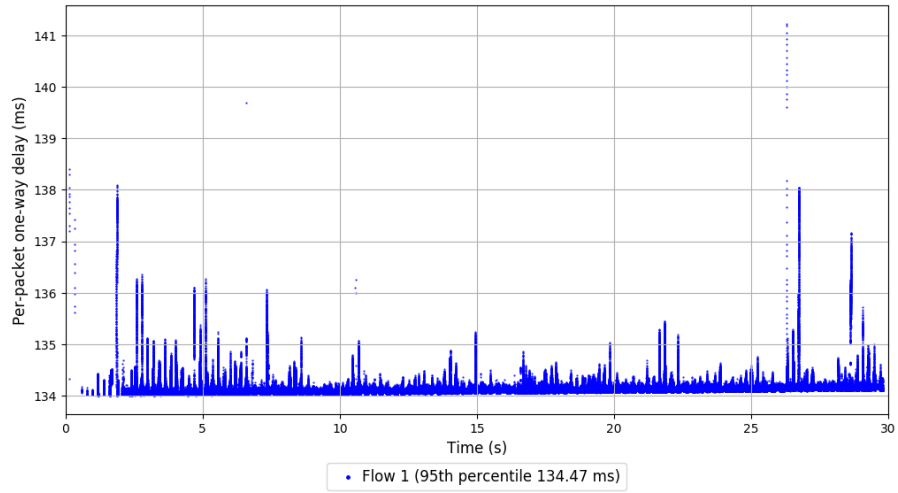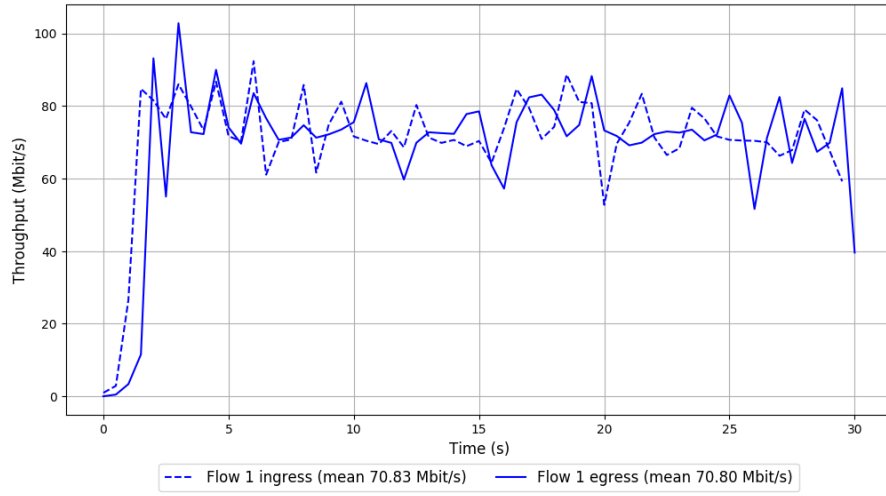
Run 2: Report of Indigo — Data Link

```
Run 3: Statistics of Indigo

Start at: 2019-03-27 08:07:04
End at: 2019-03-27 08:07:34
Local clock offset: -4.927 ms
Remote clock offset: -37.278 ms

Below is generated by plot.py at 2019-03-27 09:52:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 70.80 Mbit/s
95th percentile per-packet one-way delay: 134.467 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 70.80 Mbit/s
95th percentile per-packet one-way delay: 134.467 ms
Loss rate: 0.70%
```
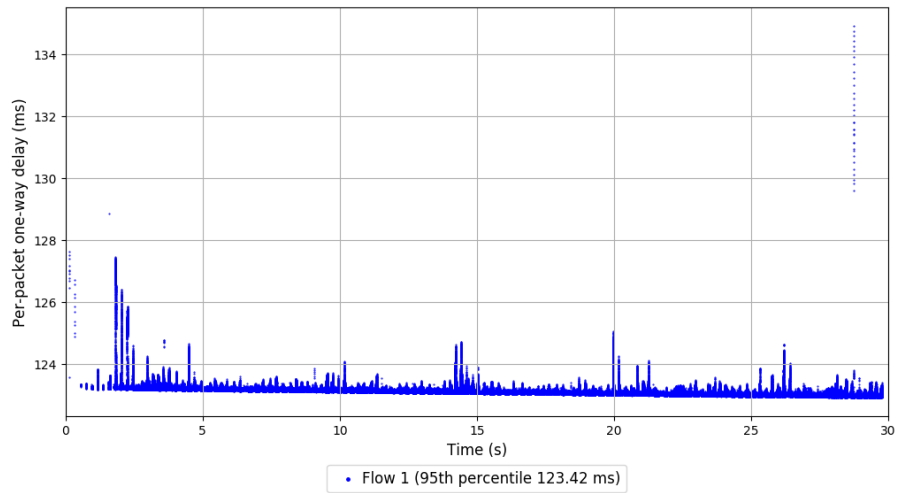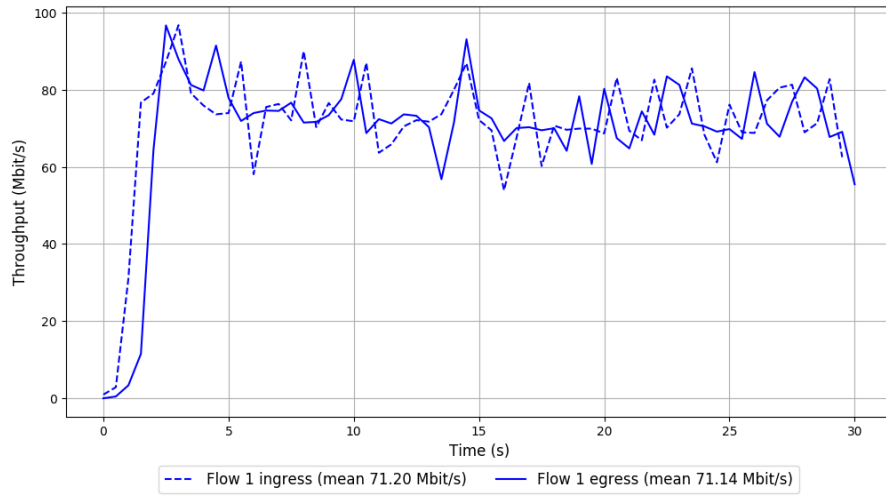
Run 3: Report of Indigo — Data Link

```
Run 4: Statistics of Indigo

Start at: 2019-03-27 08:52:12
End at: 2019-03-27 08:52:42
Local clock offset: -0.05 ms
Remote clock offset: -30.189 ms


# Below is generated by plot.py at 2019-03-27 09:52:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.14 Mbit/s
95th percentile per-packet one-way delay: 123.423 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 71.14 Mbit/s
95th percentile per-packet one-way delay: 123.423 ms
Loss rate: 0.75%
```

Run 4: Report of Indigo — Data Link

```
Run 5: Statistics of Indigo

Start at: 2019-03-27 09:20:26
End at: 2019-03-27 09:20:56
Local clock offset: 6.609 ms
Remote clock offset: -33.464 ms


# Below is generated by plot.py at 2019-03-27 09:52:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 98.86 Mbit/s
95th percentile per-packet one-way delay: 128.317 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 98.86 Mbit/s
95th percentile per-packet one-way delay: 128.317 ms
Loss rate: 0.55%
```
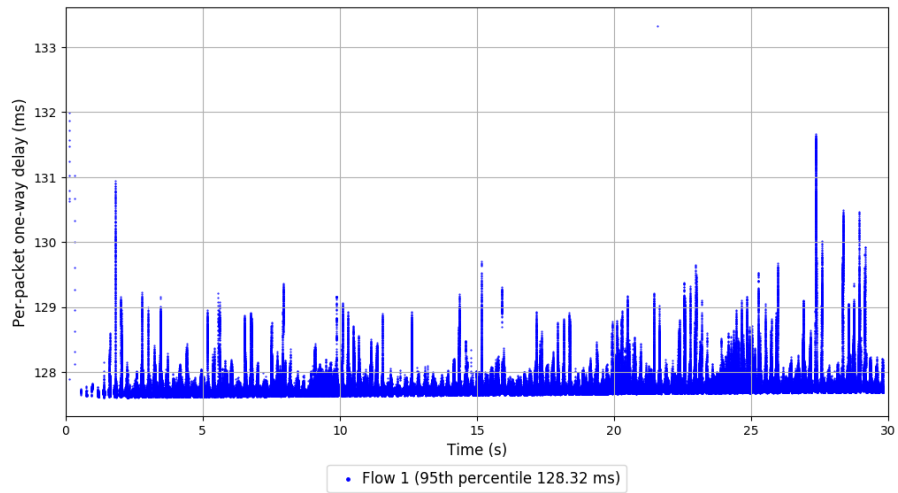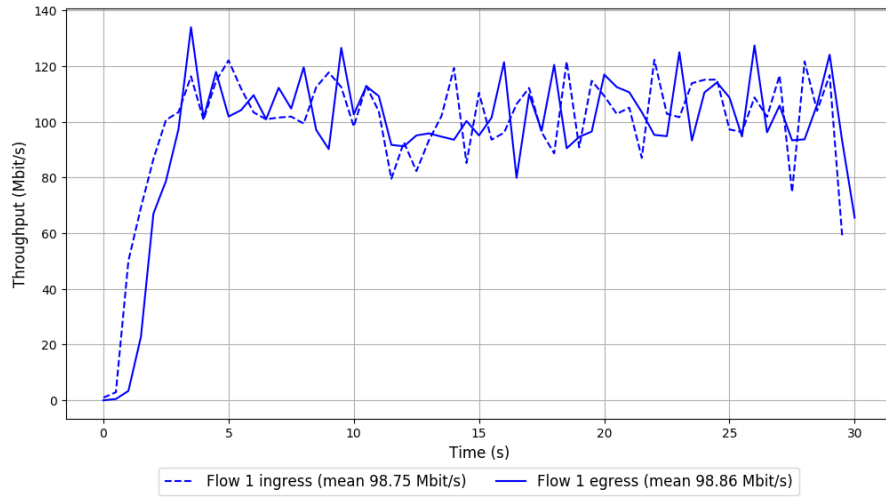
Run 5: Report of Indigo — Data Link

Flow 1 ingress (mean 98.75 Mbit/s)   Flow 1 egress (mean 98.86 Mbit/s)

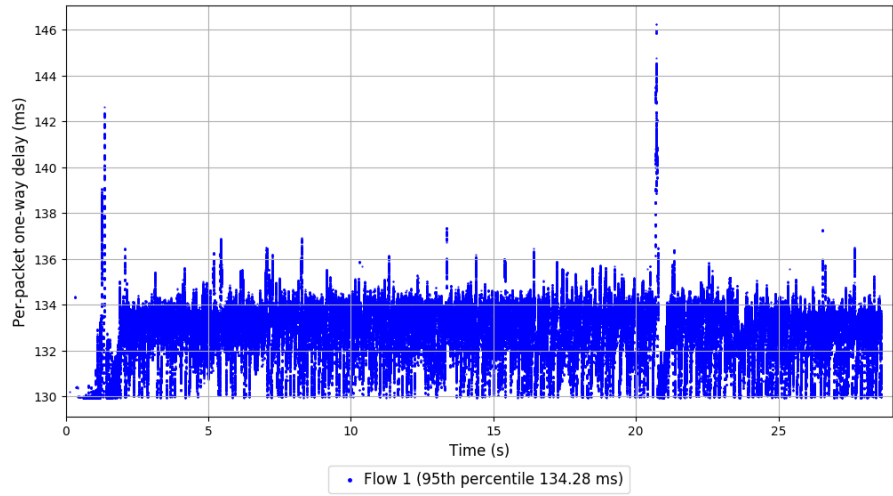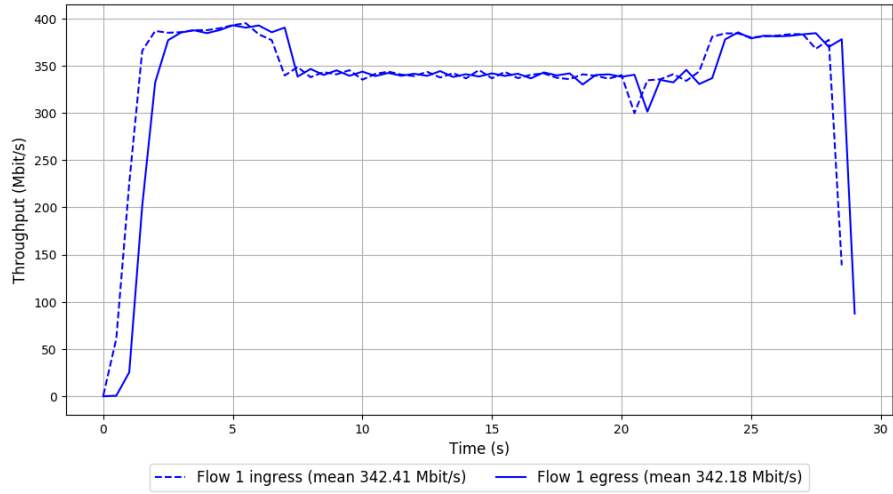• Flow 1 (95th percentile 128.32 ms)

```
Run 1: Statistics of Indigo-MusesC3

Start at: 2019-03-27 07:02:55
End at: 2019-03-27 07:03:26
Local clock offset: 3.021 ms
Remote clock offset: -35.512 ms


# Below is generated by plot.py at 2019-03-27 09:53:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 342.18 Mbit/s
95th percentile per-packet one-way delay: 134.285 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 342.18 Mbit/s
95th percentile per-packet one-way delay: 134.285 ms
Loss rate: 0.76%
```

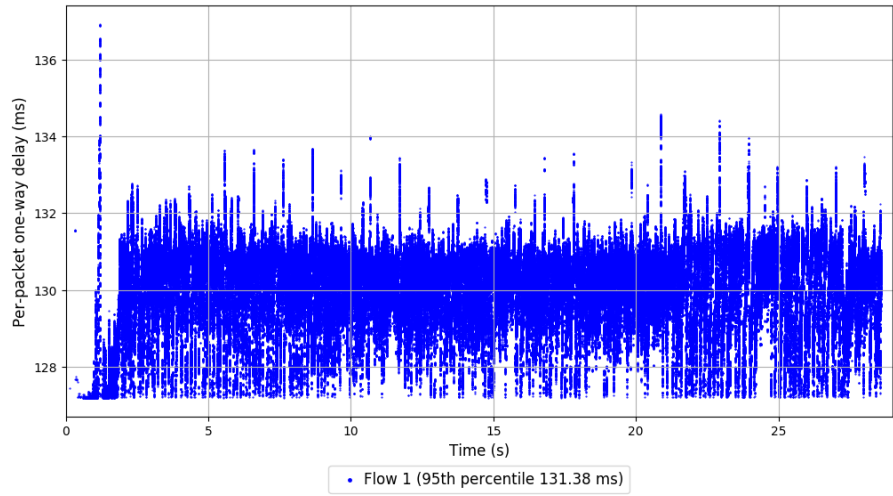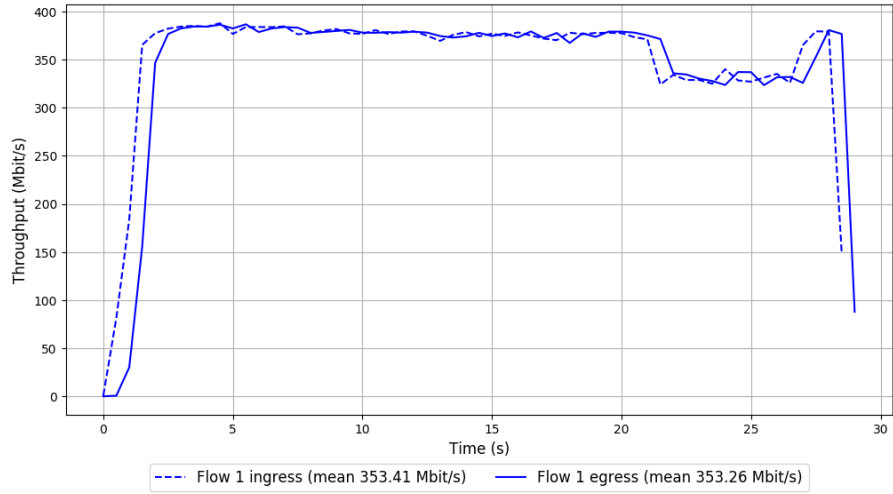Run 1: Report of Indigo-MusesC3 — Data Link

```
Run 2: Statistics of Indigo-MusesC3

Start at: 2019-03-27 07:42:31
End at: 2019-03-27 07:43:01
Local clock offset: 4.733 ms
Remote clock offset: -32.205 ms


# Below is generated by plot.py at 2019-03-27 09:53:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 353.26 Mbit/s
95th percentile per-packet one-way delay: 131.384 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 353.26 Mbit/s
95th percentile per-packet one-way delay: 131.384 ms
Loss rate: 0.79%
```

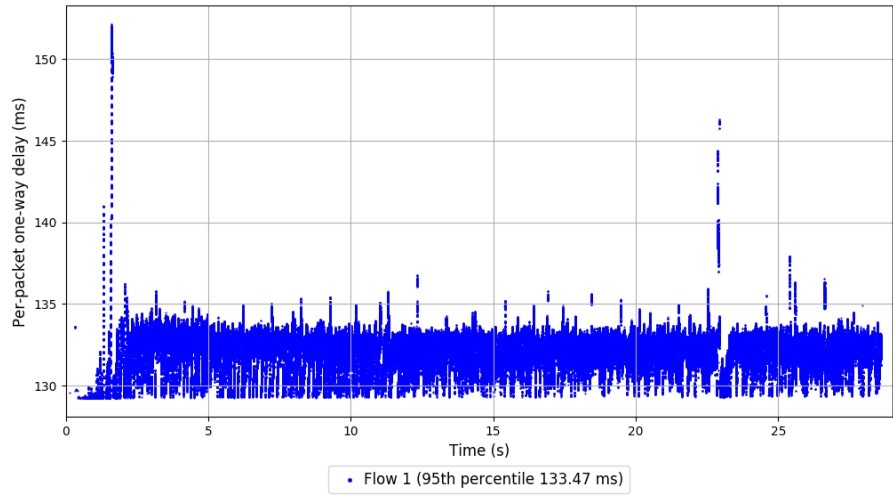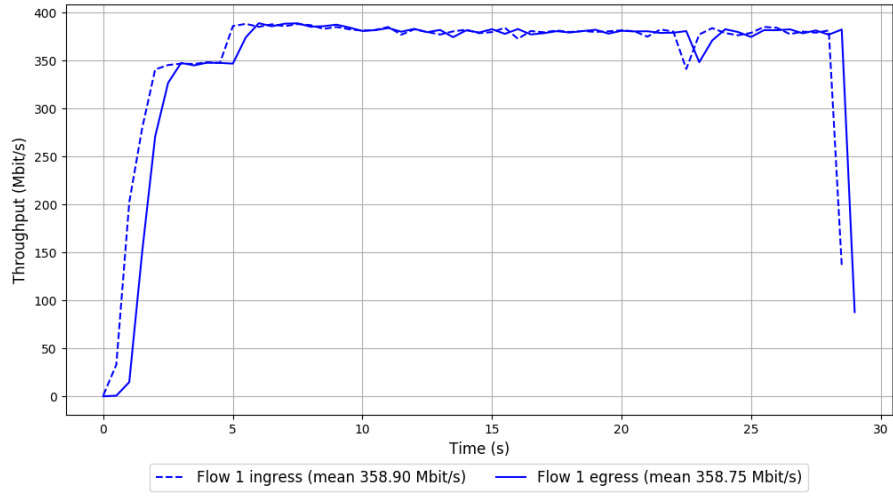Run 2: Report of Indigo-MusesC3 — Data Link

```
Run 3: Statistics of Indigo-MusesC3

Start at: 2019-03-27 08:10:50
End at: 2019-03-27 08:11:20
Local clock offset: -6.498 ms
Remote clock offset: -33.882 ms


# Below is generated by plot.py at 2019-03-27 09:53:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 358.75 Mbit/s
95th percentile per-packet one-way delay: 133.474 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 358.75 Mbit/s
95th percentile per-packet one-way delay: 133.474 ms
Loss rate: 0.73%
```

Run 3: Report of Indigo-MusesC3 — Data Link

Flow 1 ingress (mean 358.90 Mbit/s)   Flow 1 egress (mean 358.75 Mbit/s)
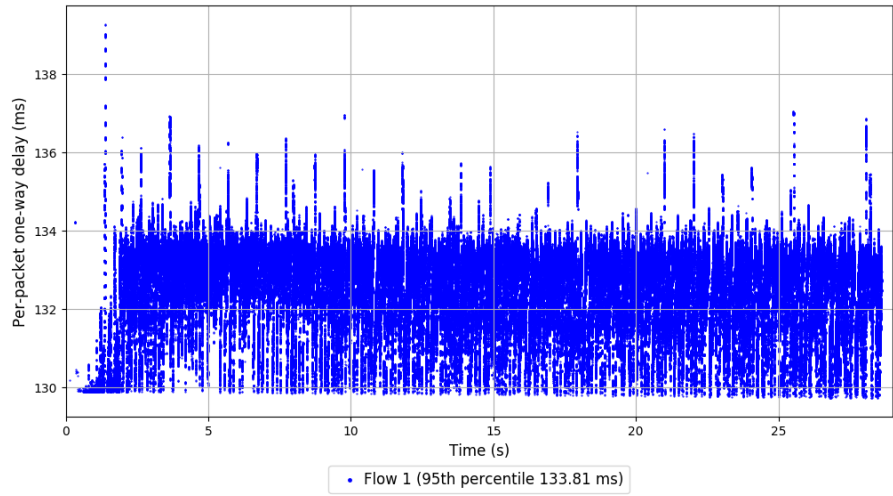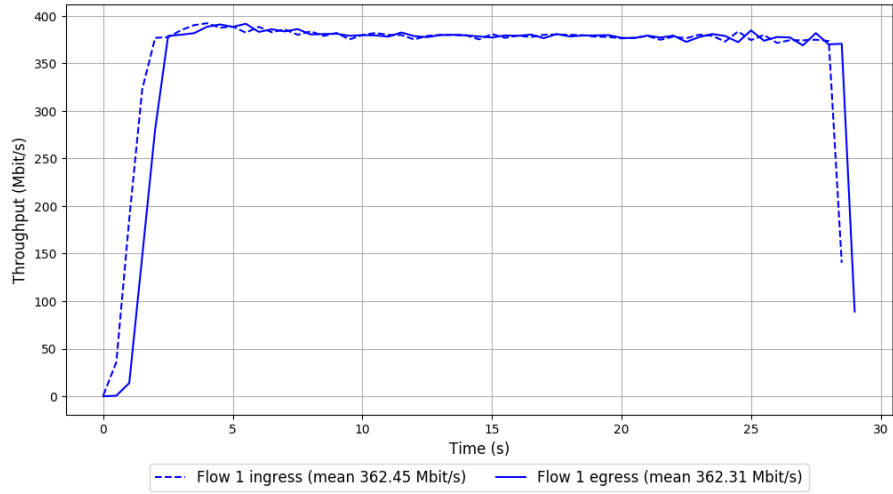

Flow 1 (95th percentile 133.47 ms)

```
Run 4: Statistics of Indigo-MusesC3

Start at: 2019-03-27 08:56:00
End at: 2019-03-27 08:56:30
Local clock offset: 3.84 ms
Remote clock offset: -34.915 ms


# Below is generated by plot.py at 2019-03-27 09:53:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 362.31 Mbit/s
95th percentile per-packet one-way delay: 133.812 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 362.31 Mbit/s
95th percentile per-packet one-way delay: 133.812 ms
Loss rate: 0.73%
```

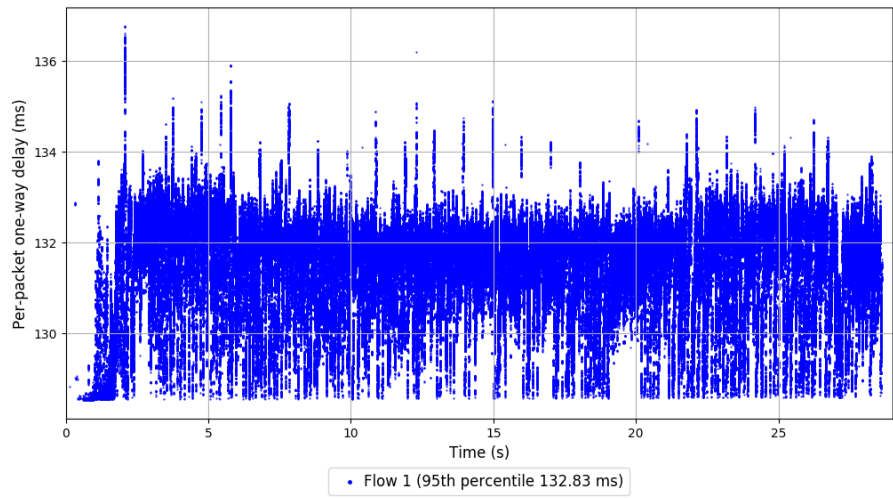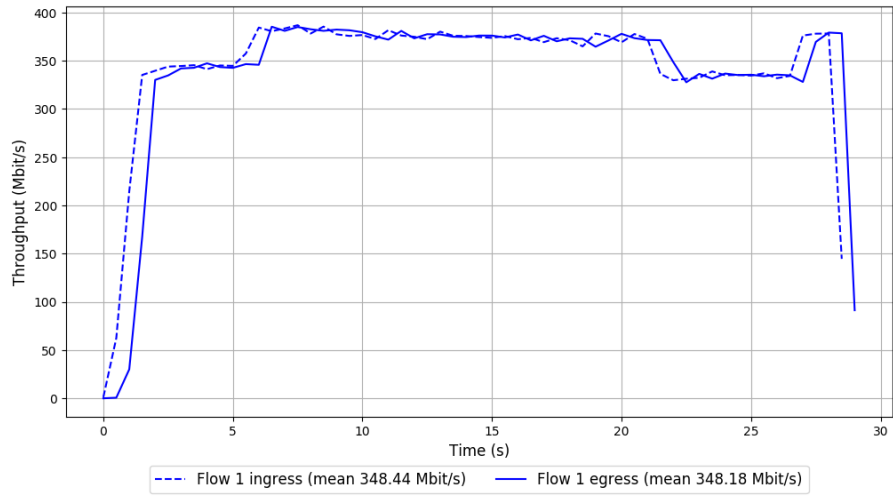Run 4: Report of Indigo-MusesC3 — Data Link

```
Run 5: Statistics of Indigo-MusesC3

Start at: 2019-03-27 09:24:13
End at: 2019-03-27 09:24:43
Local clock offset: 6.384 ms
Remote clock offset: -33.64 ms


# Below is generated by plot.py at 2019-03-27 09:53:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 348.18 Mbit/s
95th percentile per-packet one-way delay: 132.831 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 348.18 Mbit/s
95th percentile per-packet one-way delay: 132.831 ms
Loss rate: 0.76%
```

Run 5: Report of Indigo-MusesC3 — Data Link

Flow 1 ingress (mean 348.44 Mbit/s)   Flow 1 egress (mean 348.18 Mbit/s)
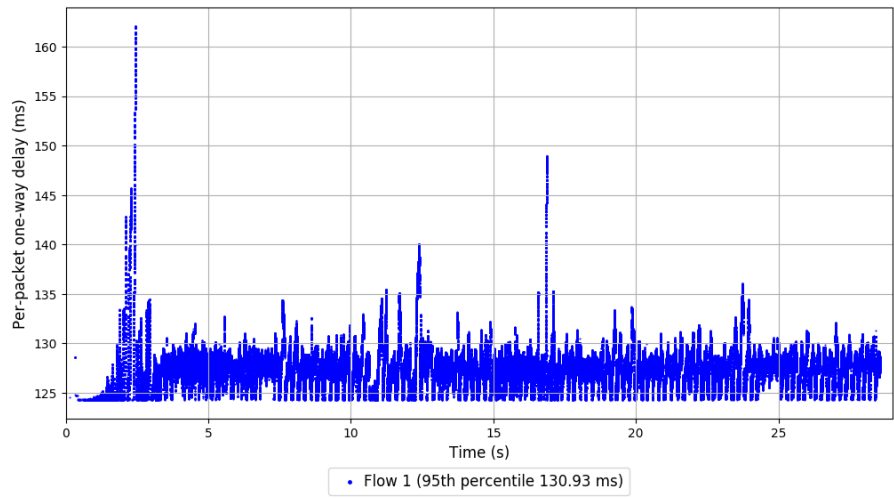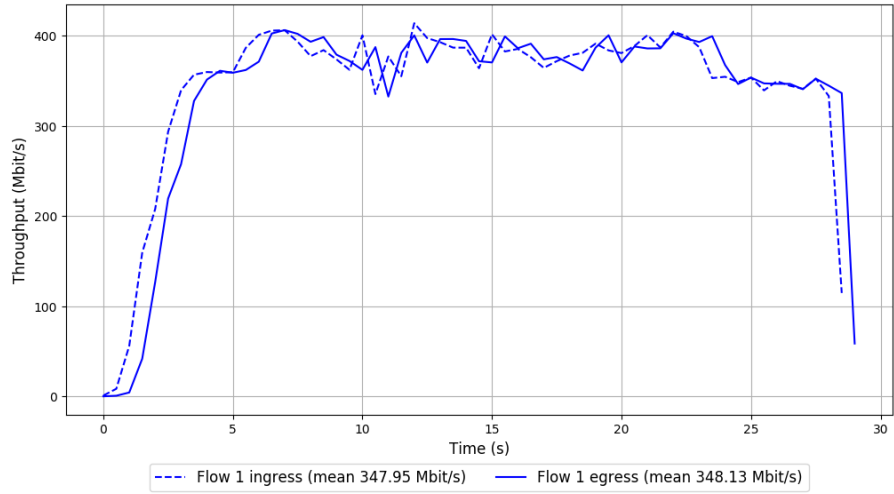

Flow 1 (95th percentile 132.83 ms)

```
Run 1: Statistics of Indigo-MusesC5

Start at: 2019-03-27 06:39:44
End at: 2019-03-27 06:40:14
Local clock offset: 0.804 ms
Remote clock offset: -30.301 ms


# Below is generated by plot.py at 2019-03-27 09:53:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 348.13 Mbit/s
95th percentile per-packet one-way delay: 130.928 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 348.13 Mbit/s
95th percentile per-packet one-way delay: 130.928 ms
Loss rate: 0.71%
```

Run 1: Report of Indigo-MusesC5 — Data Link

- - - - Flow 1 ingress (mean 347.95 Mbit/s) ——— Flow 1 egress (mean 348.13 Mbit/s)

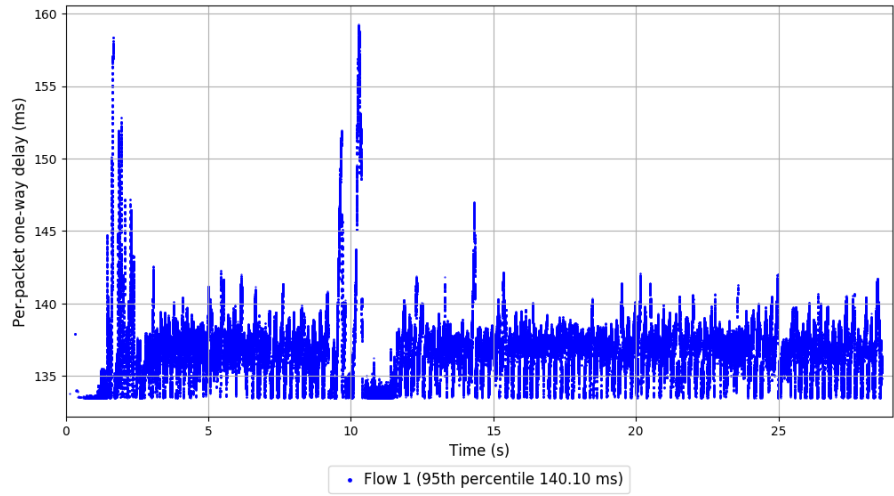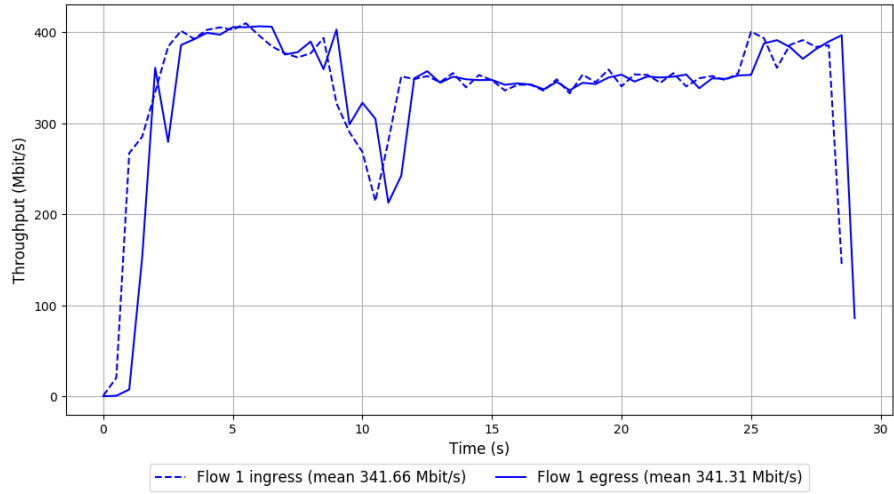• Flow 1 (95th percentile 130.93 ms)

```
Run 2: Statistics of Indigo-MusesC5

Start at: 2019-03-27 07:19:19
End at: 2019-03-27 07:19:49
Local clock offset: 3.473 ms
Remote clock offset: -39.119 ms


# Below is generated by plot.py at 2019-03-27 09:56:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 341.31 Mbit/s
95th percentile per-packet one-way delay: 140.102 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 341.31 Mbit/s
95th percentile per-packet one-way delay: 140.102 ms
Loss rate: 0.79%
```

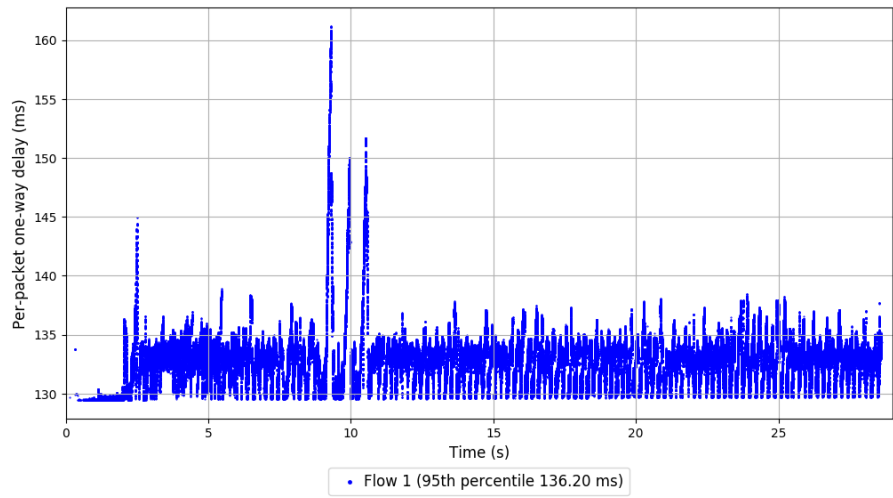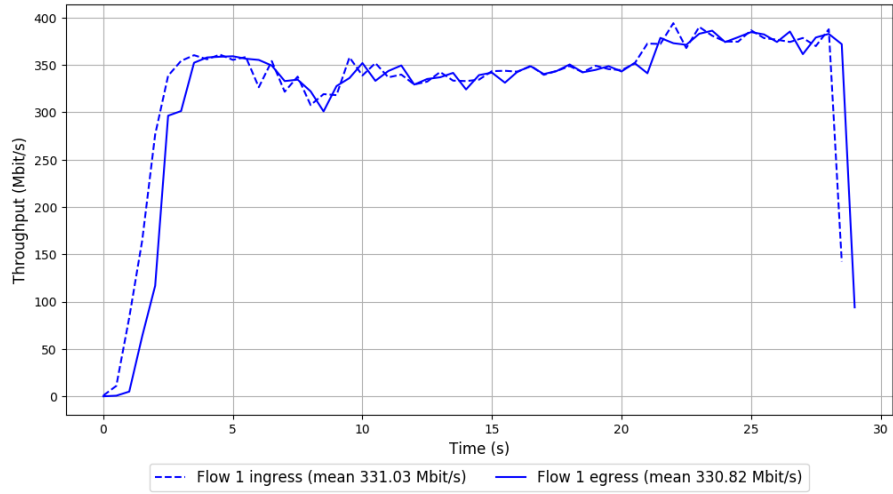Run 2: Report of Indigo-MusesC5 — Data Link

```
Run 3: Statistics of Indigo-MusesC5

Start at: 2019-03-27 07:53:19
End at: 2019-03-27 07:53:49
Local clock offset: -0.554 ms
Remote clock offset: -33.569 ms


# Below is generated by plot.py at 2019-03-27 09:56:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 330.82 Mbit/s
95th percentile per-packet one-way delay: 136.204 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 330.82 Mbit/s
95th percentile per-packet one-way delay: 136.204 ms
Loss rate: 0.82%
```

Run 3: Report of Indigo-MusesC5 — Data Link

Flow 1 ingress (mean 331.03 Mbit/s)   Flow 1 egress (mean 330.82 Mbit/s)
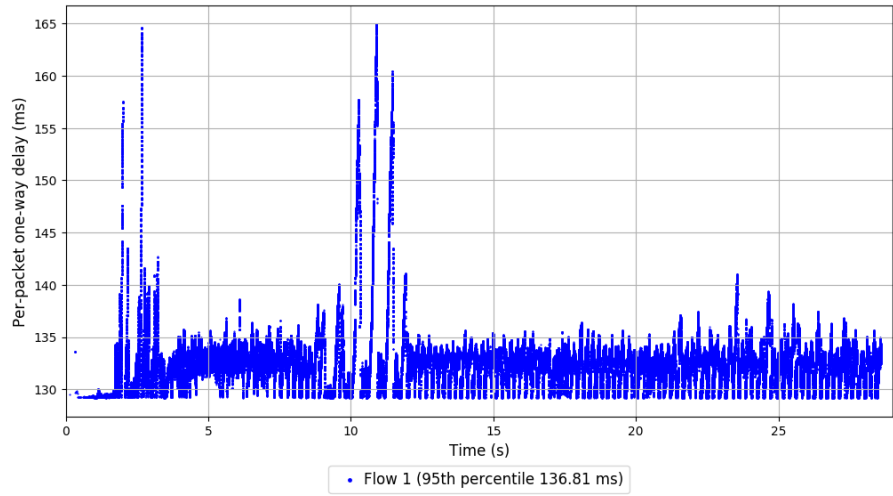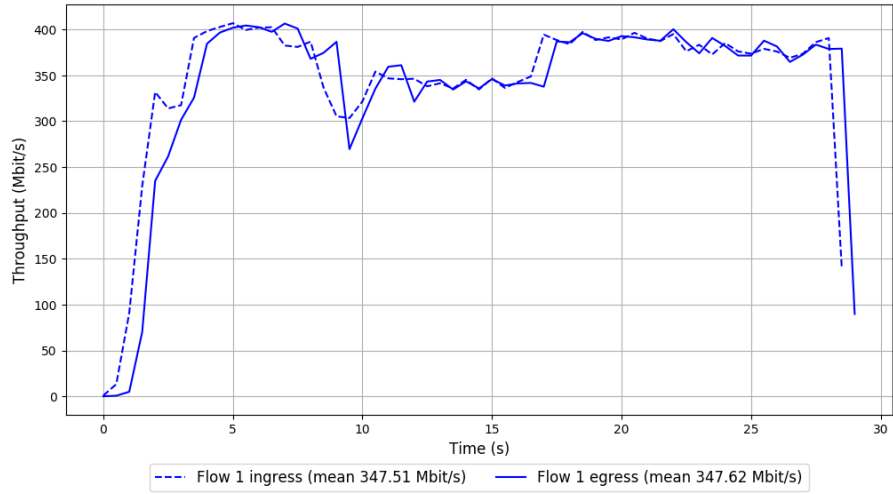

Flow 1 (95th percentile 136.20 ms)

```
Run 4: Statistics of Indigo-MusesC5

Start at: 2019-03-27 08:32:31
End at: 2019-03-27 08:33:01
Local clock offset: -3.837 ms
Remote clock offset: -33.716 ms


# Below is generated by plot.py at 2019-03-27 09:56:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 347.62 Mbit/s
95th percentile per-packet one-way delay: 136.813 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 347.62 Mbit/s
95th percentile per-packet one-way delay: 136.813 ms
Loss rate: 0.81%
```
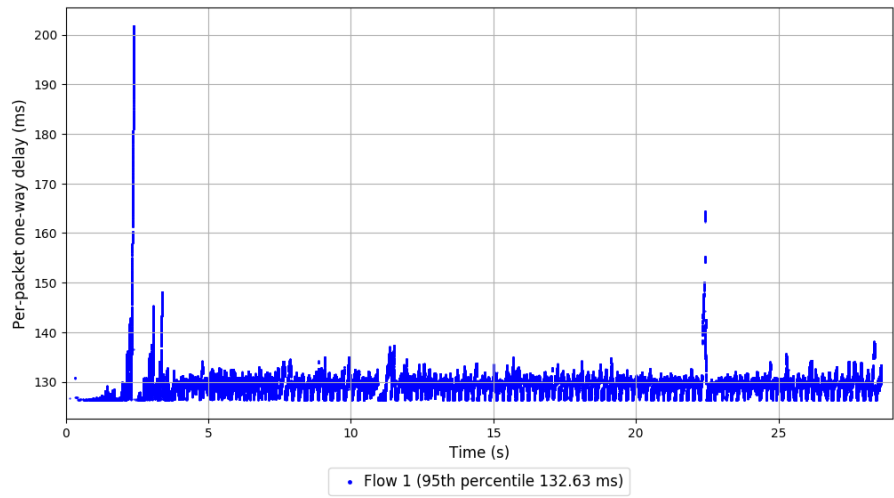
Run 4: Report of Indigo-MusesC5 — Data Link

- - - Flow 1 ingress (mean 347.51 Mbit/s) ——— Flow 1 egress (mean 347.62 Mbit/s)

• Flow 1 (95th percentile 136.81 ms)

```
Run 5: Statistics of Indigo-MusesC5

Start at: 2019-03-27 09:06:48
End at: 2019-03-27 09:07:18
Local clock offset: 4.688 ms
Remote clock offset: -33.52 ms


# Below is generated by plot.py at 2019-03-27 09:57:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 350.21 Mbit/s
95th percentile per-packet one-way delay: 132.631 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 350.21 Mbit/s
95th percentile per-packet one-way delay: 132.631 ms
Loss rate: 0.75%
```
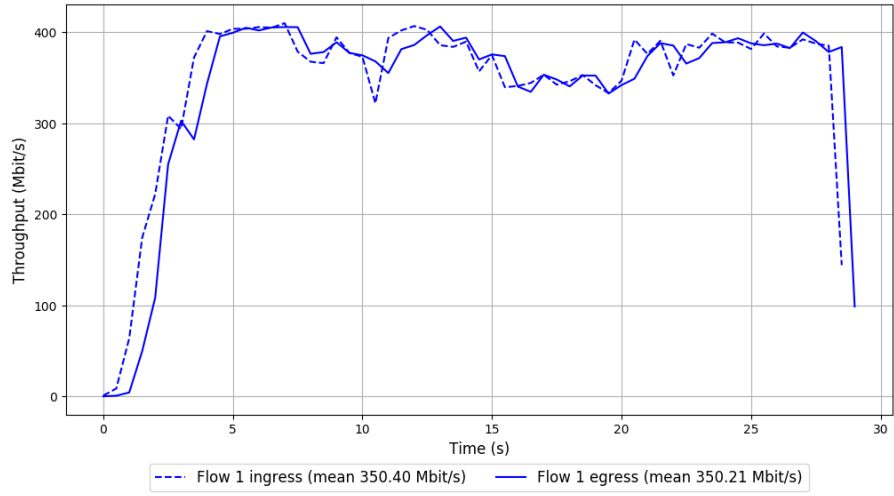
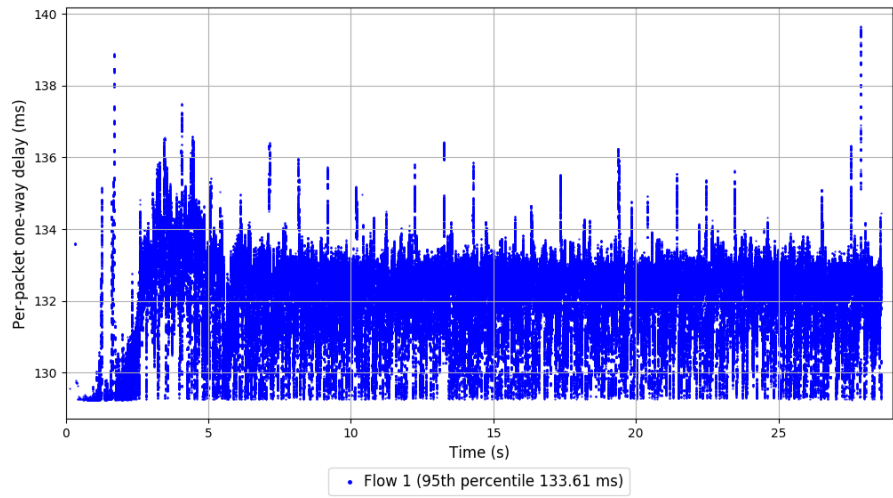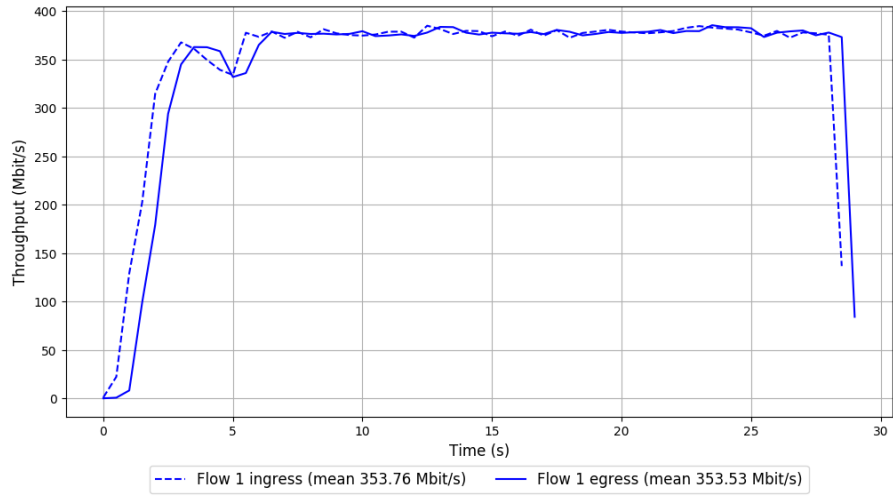Run 5: Report of Indigo-MusesC5 — Data Link

```
Run 1: Statistics of Indigo-MusesD

Start at: 2019-03-27 06:45:19
End at: 2019-03-27 06:45:49
Local clock offset: -0.112 ms
Remote clock offset: -35.896 ms


# Below is generated by plot.py at 2019-03-27 09:57:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 353.53 Mbit/s
95th percentile per-packet one-way delay: 133.609 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 353.53 Mbit/s
95th percentile per-packet one-way delay: 133.609 ms
Loss rate: 0.74%
```

Run 1: Report of Indigo-MusesD — Data Link

```
Run 2: Statistics of Indigo-MusesD

Start at: 2019-03-27 07:30:37
End at: 2019-03-27 07:31:07
Local clock offset: 5.434 ms
Remote clock offset: -38.695 ms


# Below is generated by plot.py at 2019-03-27 09:57:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 355.53 Mbit/s
95th percentile per-packet one-way delay: 139.437 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 355.53 Mbit/s
95th percentile per-packet one-way delay: 139.437 ms
Loss rate: 0.73%
```
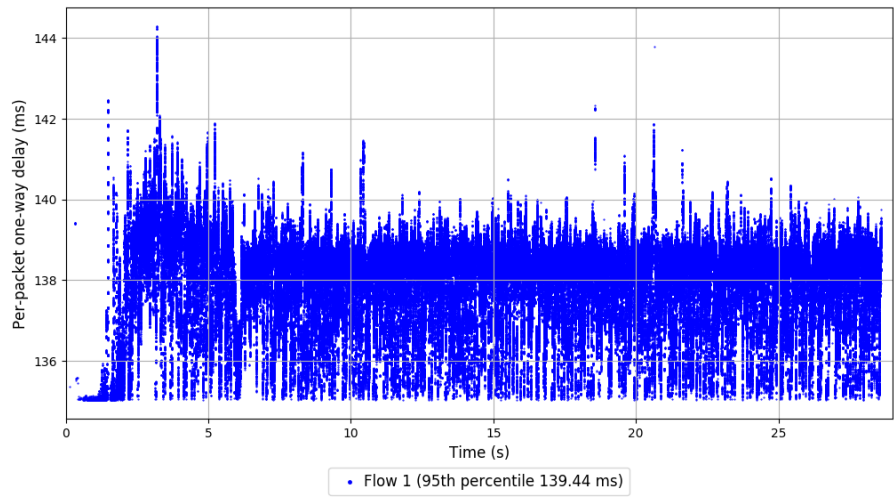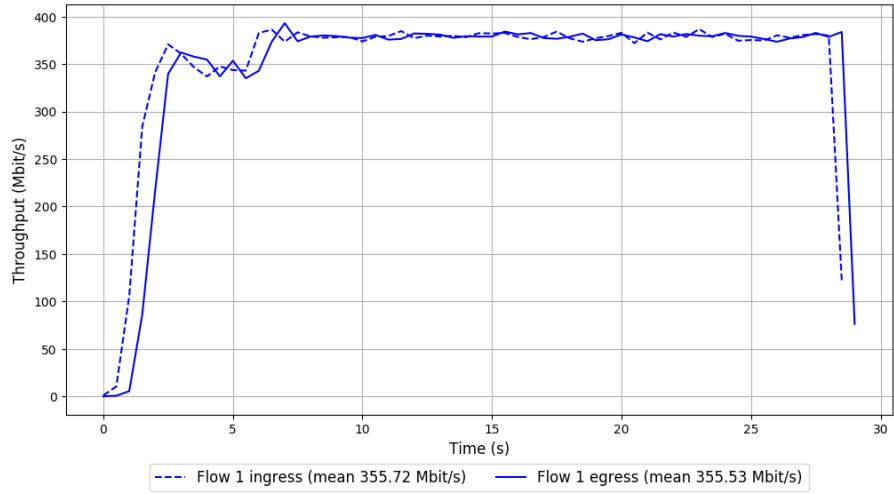
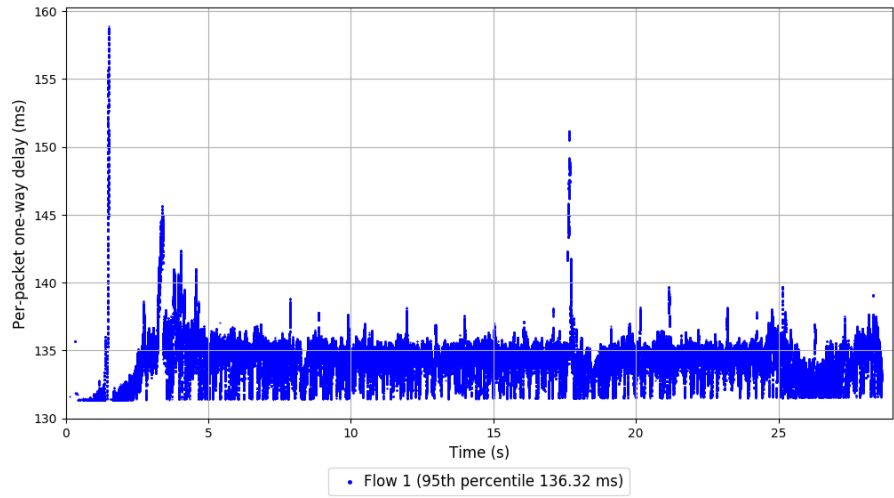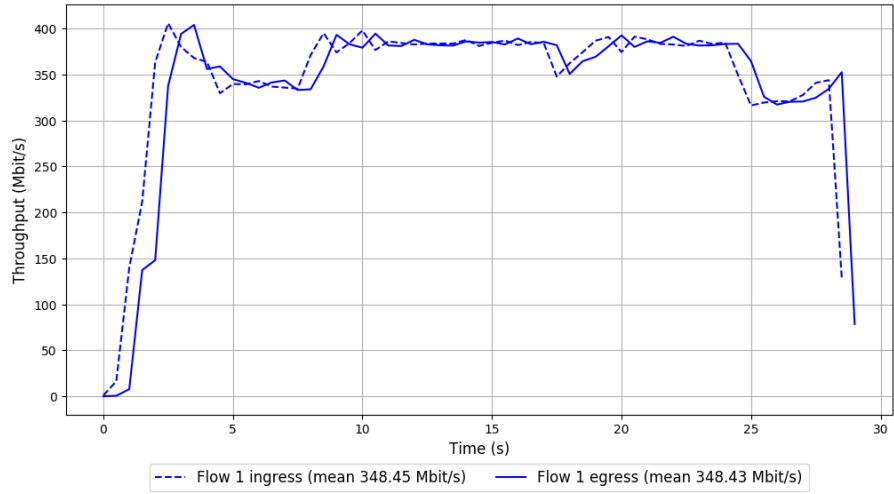Run 2: Report of Indigo-MusesD — Data Link

```
Run 3: Statistics of Indigo-MusesD

Start at: 2019-03-27 07:58:56
End at: 2019-03-27 07:59:26
Local clock offset: -2.943 ms
Remote clock offset: -36.667 ms


# Below is generated by plot.py at 2019-03-27 09:57:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 348.43 Mbit/s
95th percentile per-packet one-way delay: 136.320 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 348.43 Mbit/s
95th percentile per-packet one-way delay: 136.320 ms
Loss rate: 0.69%
```

Run 3: Report of Indigo-MusesD — Data Link

Flow 1 ingress (mean 348.45 Mbit/s)   Flow 1 egress (mean 348.43 Mbit/s)
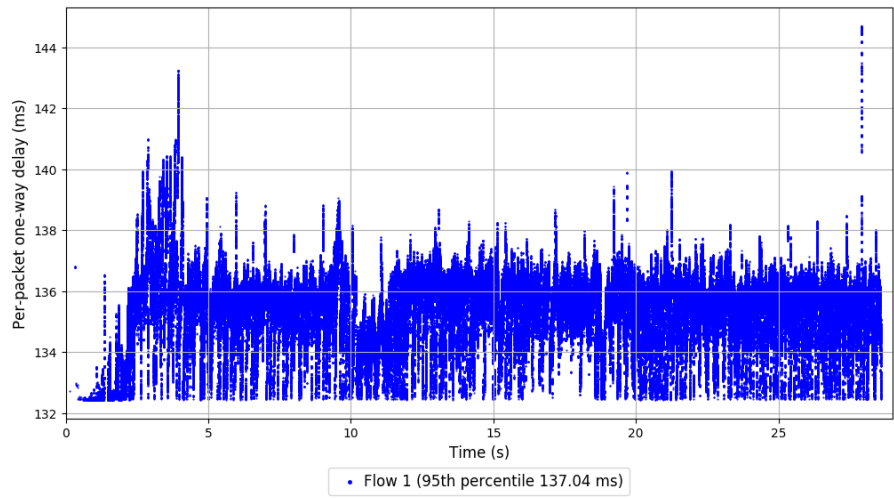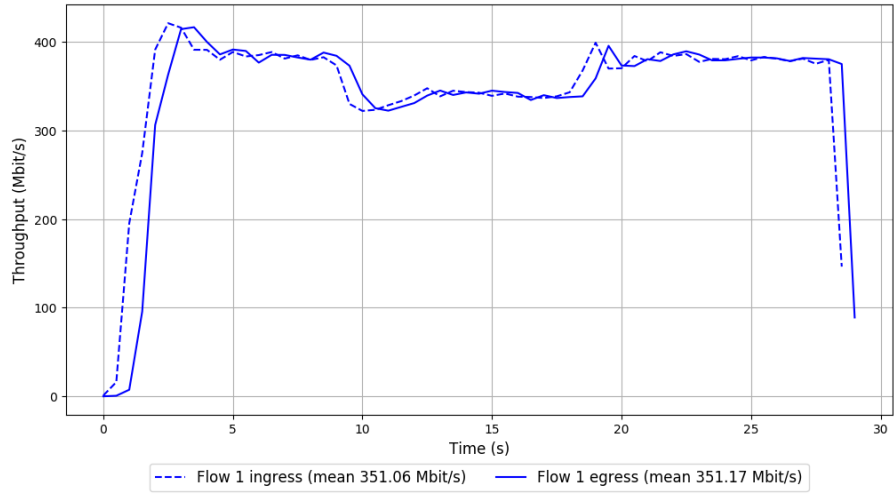

Flow 1 (95th percentile 136.32 ms)

```
Run 4: Statistics of Indigo-MusesD

Start at: 2019-03-27 08:44:10
End at: 2019-03-27 08:44:40
Local clock offset: -5.201 ms
Remote clock offset: -39.631 ms


# Below is generated by plot.py at 2019-03-27 09:57:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 351.17 Mbit/s
95th percentile per-packet one-way delay: 137.043 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 351.17 Mbit/s
95th percentile per-packet one-way delay: 137.043 ms
Loss rate: 0.79%
```

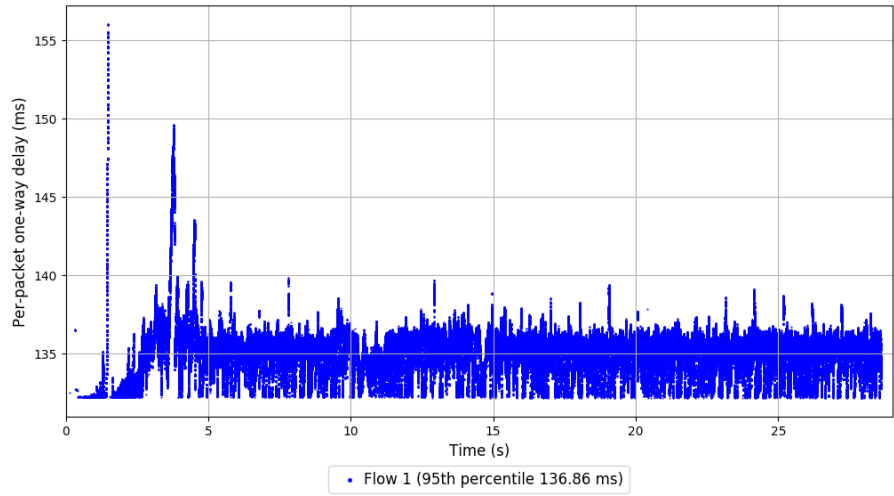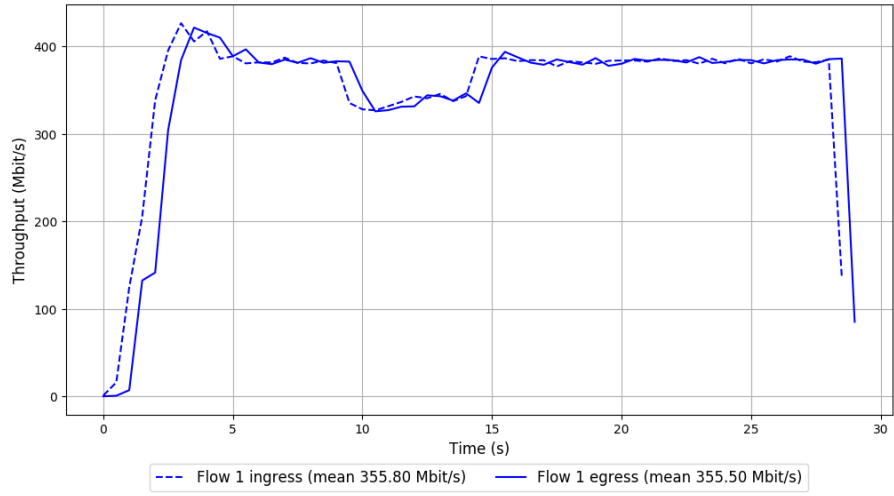Run 4: Report of Indigo-MusesD — Data Link

```
Run 5: Statistics of Indigo-MusesD

Start at: 2019-03-27 09:12:23
End at: 2019-03-27 09:12:53
Local clock offset: 7.547 ms
Remote clock offset: -37.295 ms


# Below is generated by plot.py at 2019-03-27 10:00:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 355.50 Mbit/s
95th percentile per-packet one-way delay: 136.861 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 355.50 Mbit/s
95th percentile per-packet one-way delay: 136.861 ms
Loss rate: 0.76%
```

Run 5: Report of Indigo-MusesD — Data Link

```
Run 1: Statistics of Indigo-MusesT

Start at: 2019-03-27 06:50:48
End at: 2019-03-27 06:51:18
Local clock offset: 0.965 ms
Remote clock offset: -34.761 ms


# Below is generated by plot.py at 2019-03-27 10:00:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 352.46 Mbit/s
95th percentile per-packet one-way delay: 132.700 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 352.46 Mbit/s
95th percentile per-packet one-way delay: 132.700 ms
Loss rate: 0.76%
```
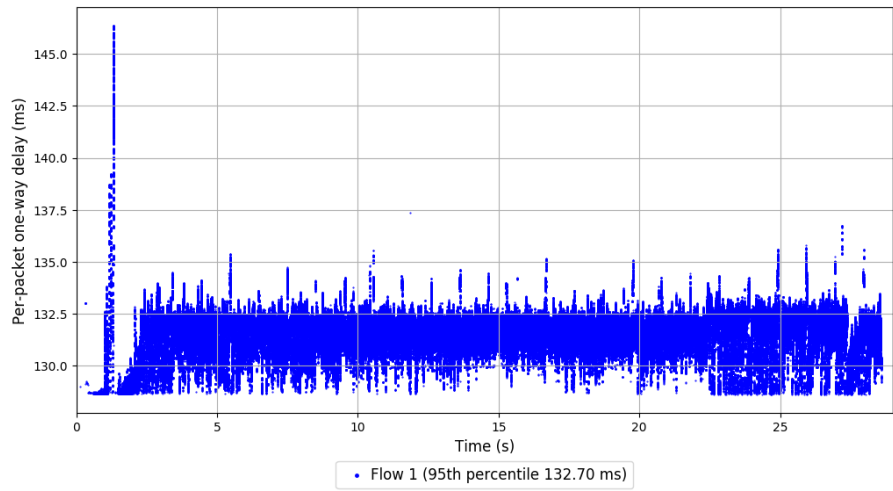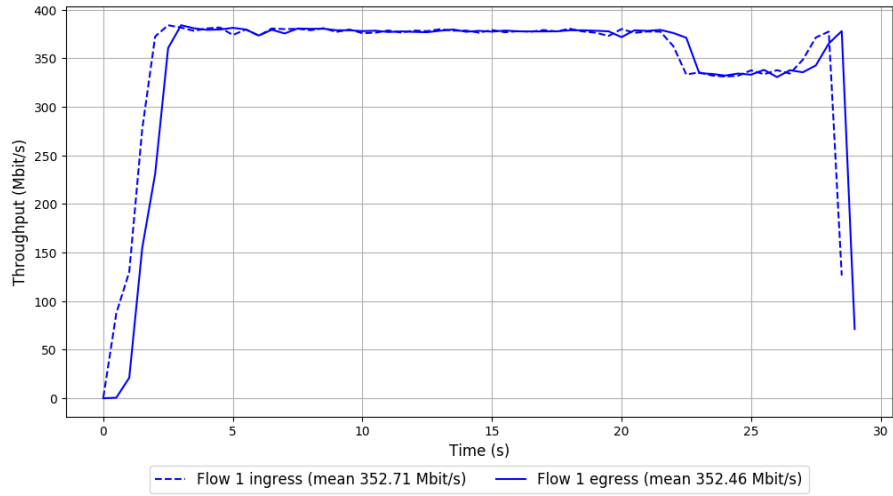
Run 1: Report of Indigo-MusesT — Data Link

```
Run 2: Statistics of Indigo-MusesT

Start at: 2019-03-27 07:36:06
End at: 2019-03-27 07:36:36
Local clock offset: 6.998 ms
Remote clock offset: -32.176 ms


# Below is generated by plot.py at 2019-03-27 10:01:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 357.23 Mbit/s
95th percentile per-packet one-way delay: 133.486 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 357.23 Mbit/s
95th percentile per-packet one-way delay: 133.486 ms
Loss rate: 0.67%
```
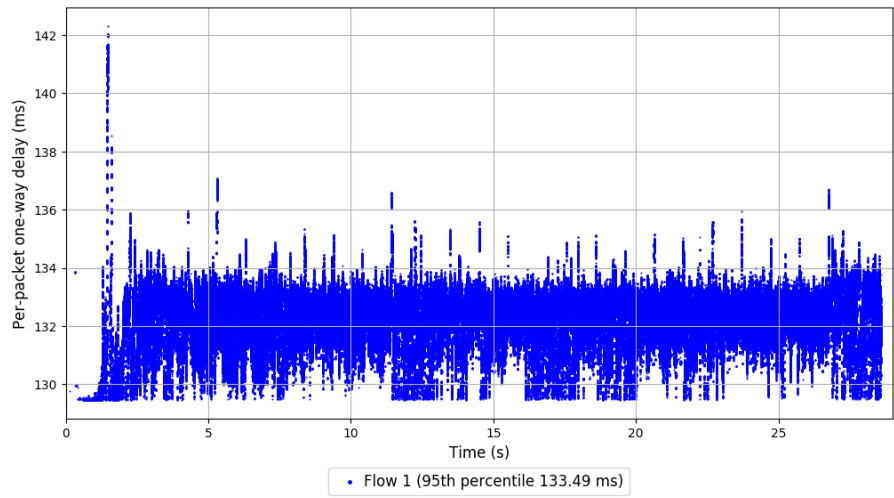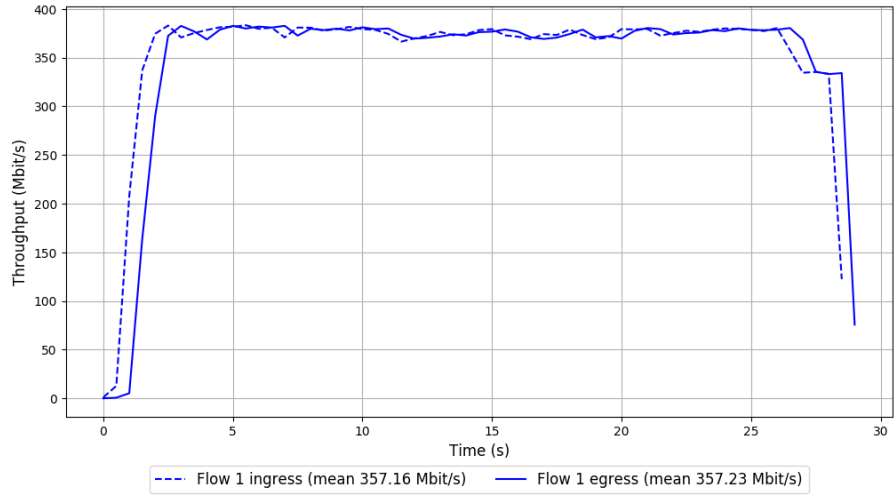
Run 2: Report of Indigo-MusesT — Data Link

```
Run 3: Statistics of Indigo-MusesT

Start at: 2019-03-27 08:04:24
End at: 2019-03-27 08:04:54
Local clock offset: -4.123 ms
Remote clock offset: -31.049 ms


# Below is generated by plot.py at 2019-03-27 10:01:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 352.65 Mbit/s
95th percentile per-packet one-way delay: 132.092 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 352.65 Mbit/s
95th percentile per-packet one-way delay: 132.092 ms
Loss rate: 0.73%
```
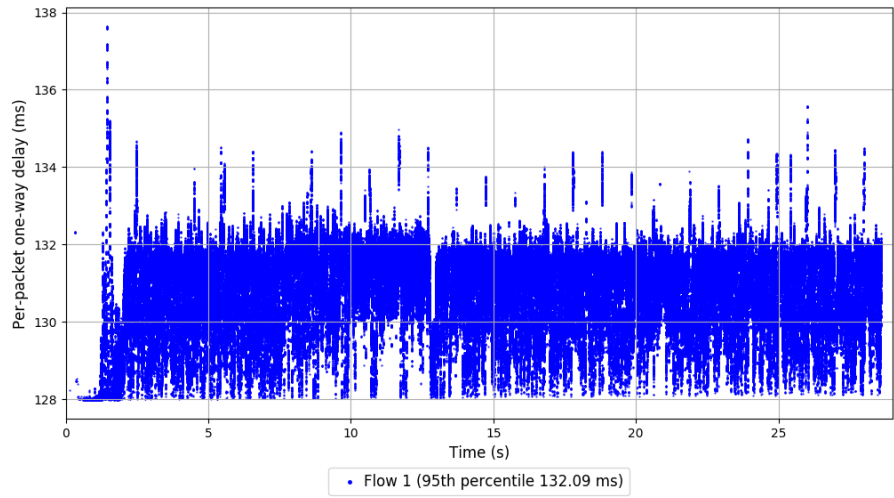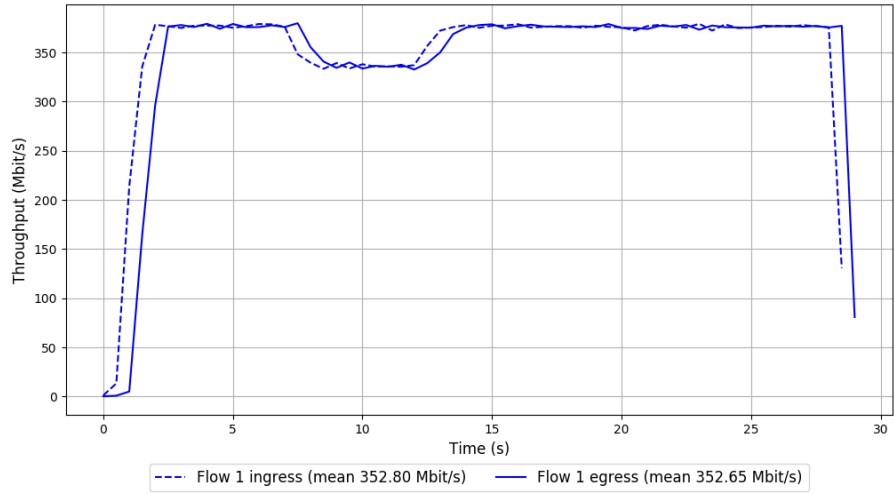
Run 3: Report of Indigo-MusesT — Data Link

```
Run 4: Statistics of Indigo-MusesT

Start at: 2019-03-27 08:49:33
End at: 2019-03-27 08:50:03
Local clock offset: -0.535 ms
Remote clock offset: -33.575 ms


# Below is generated by plot.py at 2019-03-27 10:01:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 341.49 Mbit/s
95th percentile per-packet one-way delay: 131.445 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 341.49 Mbit/s
95th percentile per-packet one-way delay: 131.445 ms
Loss rate: 0.75%
```
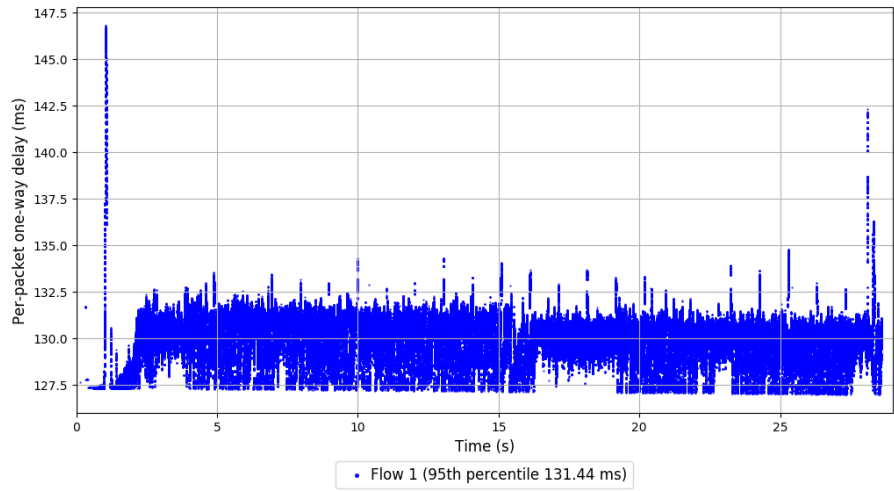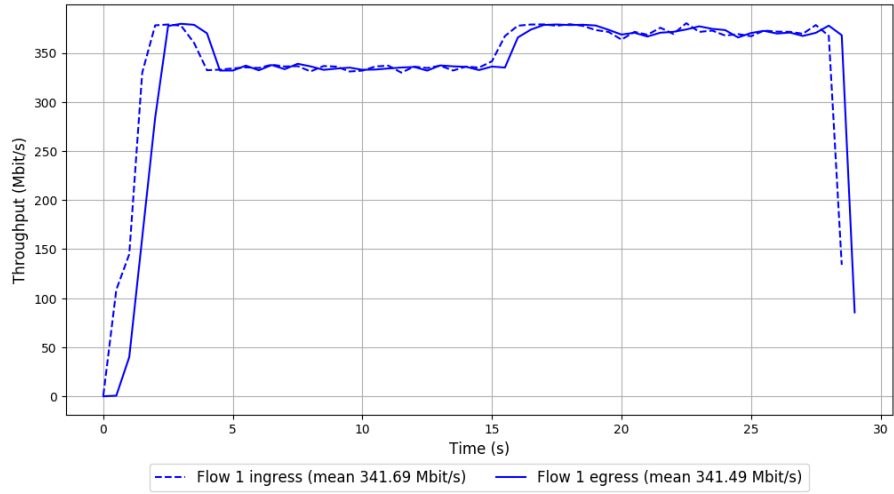
Run 4: Report of Indigo-MusesT — Data Link

Flow 1 ingress (mean 341.69 Mbit/s)   Flow 1 egress (mean 341.49 Mbit/s)

Flow 1 (95th percentile 131.44 ms)

```
Run 5: Statistics of Indigo-MusesT

Start at: 2019-03-27 09:17:49
End at: 2019-03-27 09:18:19
Local clock offset: 7.157 ms
Remote clock offset: -31.726 ms


# Below is generated by plot.py at 2019-03-27 10:01:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 349.63 Mbit/s
95th percentile per-packet one-way delay: 128.822 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 349.63 Mbit/s
95th percentile per-packet one-way delay: 128.822 ms
Loss rate: 0.72%
```
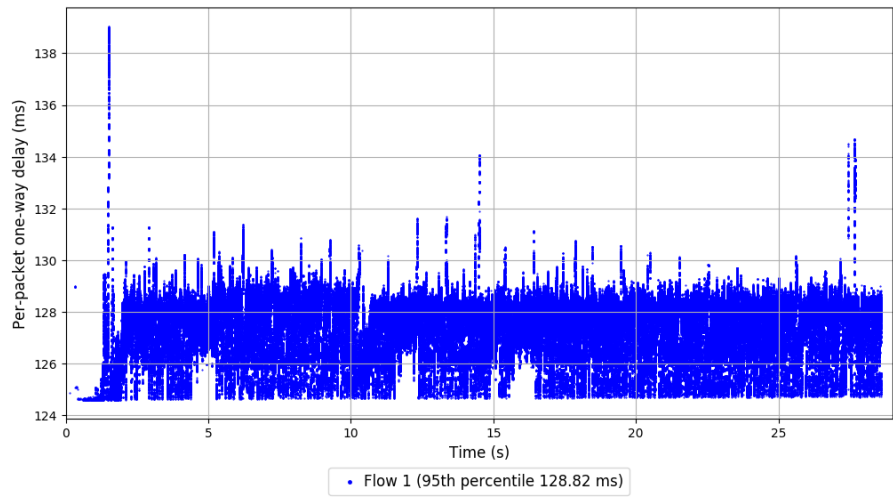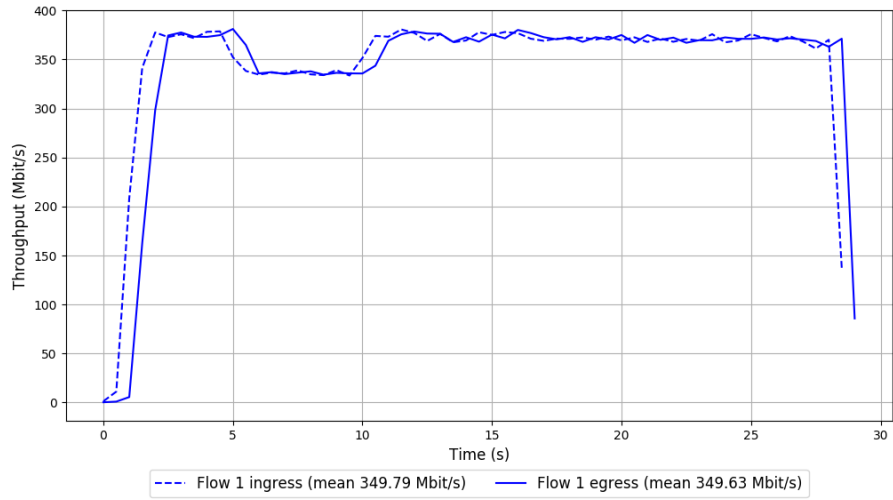
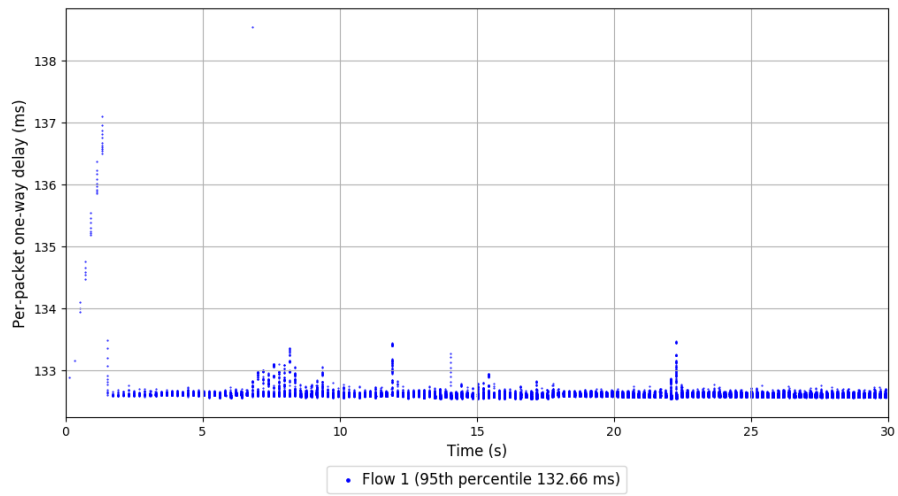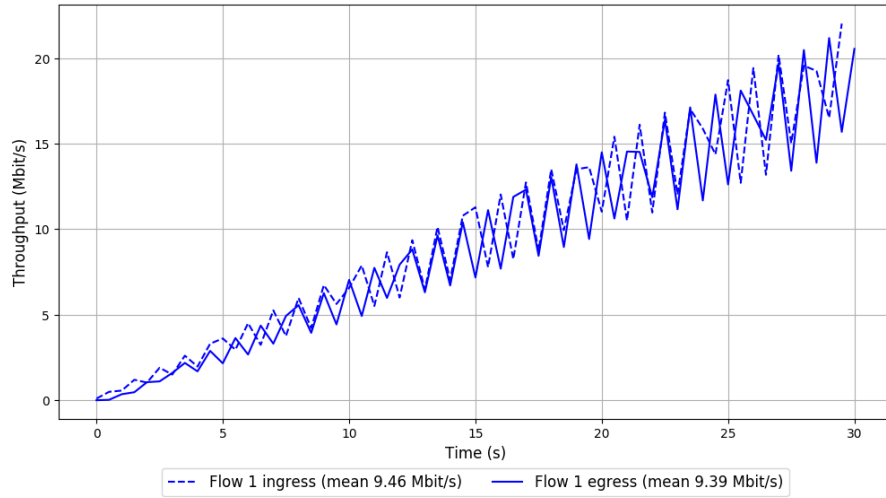Run 5: Report of Indigo-MusesT — Data Link

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```
Run 1: Statistics of LEDBAT

Start at: 2019-03-27 07:04:20
End at: 2019-03-27 07:04:50
Local clock offset: 1.846 ms
Remote clock offset: -39.336 ms


# Below is generated by plot.py at 2019-03-27 10:01:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.39 Mbit/s
95th percentile per-packet one-way delay: 132.659 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 9.39 Mbit/s
95th percentile per-packet one-way delay: 132.659 ms
Loss rate: 1.30%
```
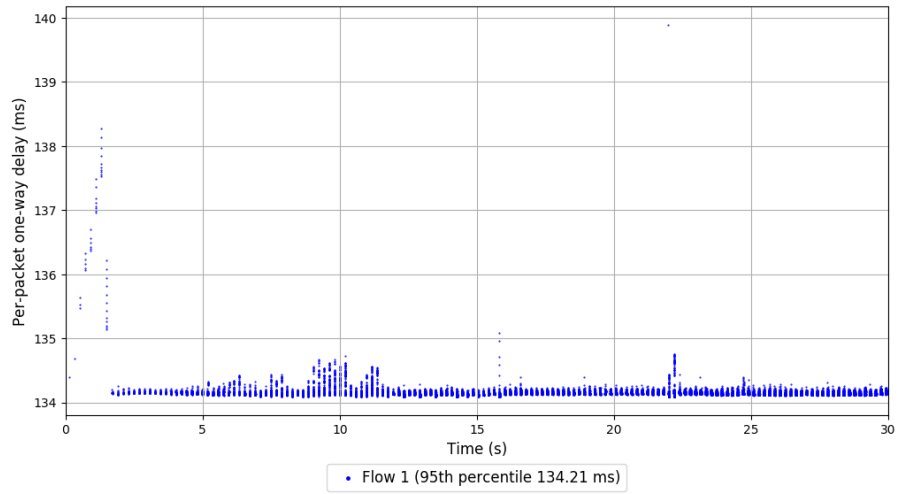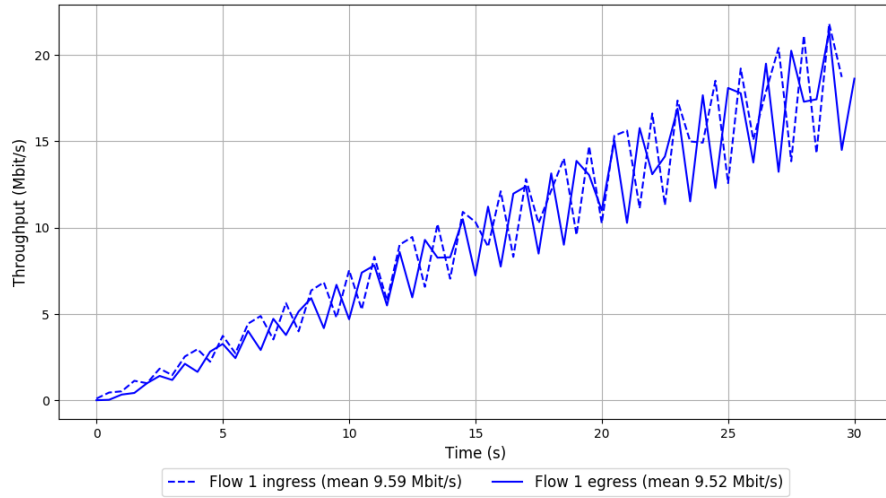
Run 1: Report of LEDBAT — Data Link

```
Run 2: Statistics of LEDBAT

Start at: 2019-03-27 07:43:58
End at: 2019-03-27 07:44:28
Local clock offset: 5.509 ms
Remote clock offset: -38.307 ms

# Below is generated by plot.py at 2019-03-27 10:01:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.52 Mbit/s
95th percentile per-packet one-way delay: 134.207 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 9.52 Mbit/s
95th percentile per-packet one-way delay: 134.207 ms
Loss rate: 1.29%
```

Run 2: Report of LEDBAT — Data Link

Flow 1 ingress (mean 9.59 Mbit/s)   —— Flow 1 egress (mean 9.52 Mbit/s)
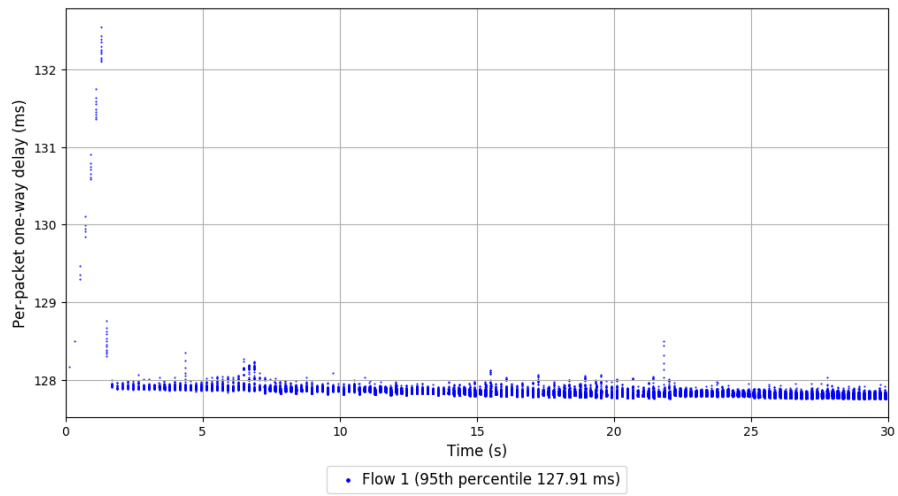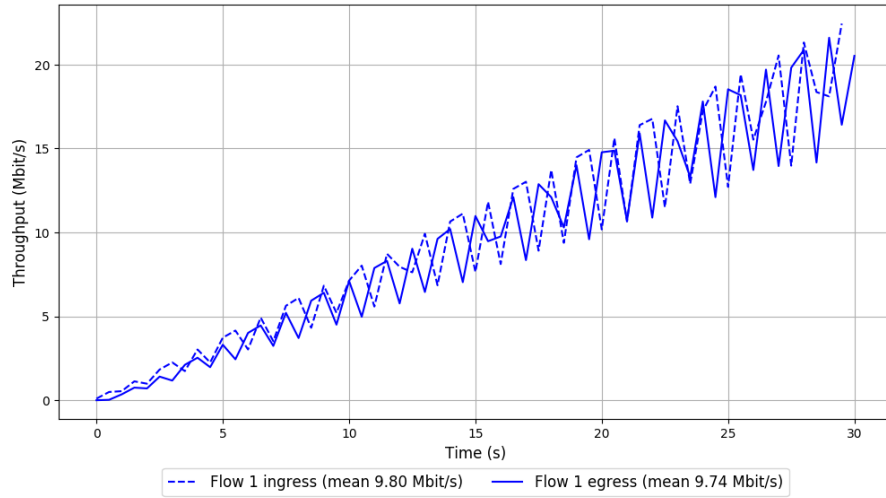

• Flow 1 (95th percentile 134.21 ms)

```
Run 3: Statistics of LEDBAT

Start at: 2019-03-27 08:17:42
End at: 2019-03-27 08:18:12
Local clock offset: -6.358 ms
Remote clock offset: -33.511 ms

# Below is generated by plot.py at 2019-03-27 10:01:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.74 Mbit/s
95th percentile per-packet one-way delay: 127.908 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 9.74 Mbit/s
95th percentile per-packet one-way delay: 127.908 ms
Loss rate: 1.28%
```

Run 3: Report of LEDBAT — Data Link

Flow 1 ingress (mean 9.80 Mbit/s) ---- Flow 1 egress (mean 9.74 Mbit/s)

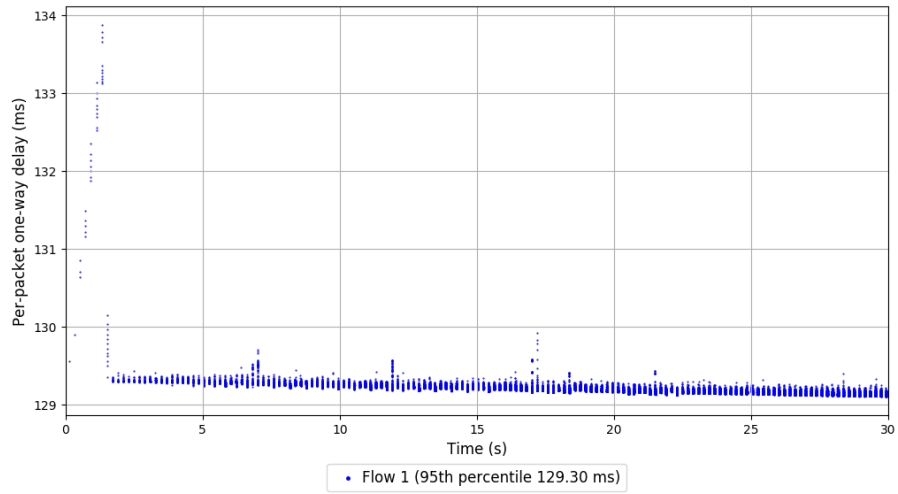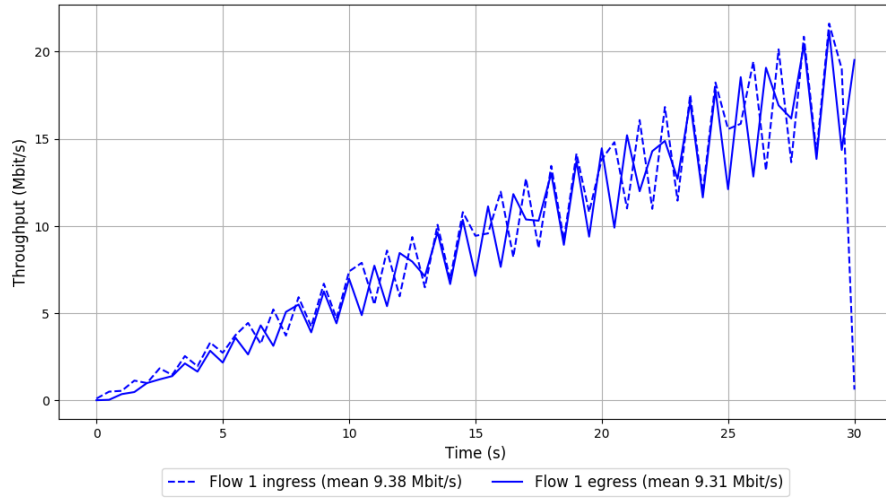Flow 1 (95th percentile 127.91 ms)

```
Run 4: Statistics of LEDBAT

Start at: 2019-03-27 08:57:26
End at: 2019-03-27 08:57:56
Local clock offset: 4.197 ms
Remote clock offset: -35.009 ms

# Below is generated by plot.py at 2019-03-27 10:01:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.31 Mbit/s
95th percentile per-packet one-way delay: 129.297 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 9.31 Mbit/s
95th percentile per-packet one-way delay: 129.297 ms
Loss rate: 1.31%
```

Run 4: Report of LEDBAT — Data Link

Flow 1 ingress (mean 9.38 Mbit/s) --- Flow 1 egress (mean 9.31 Mbit/s)

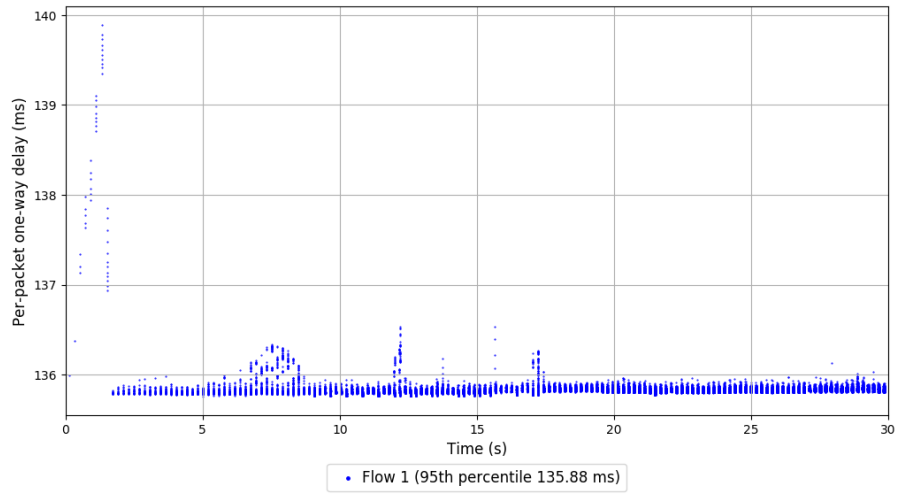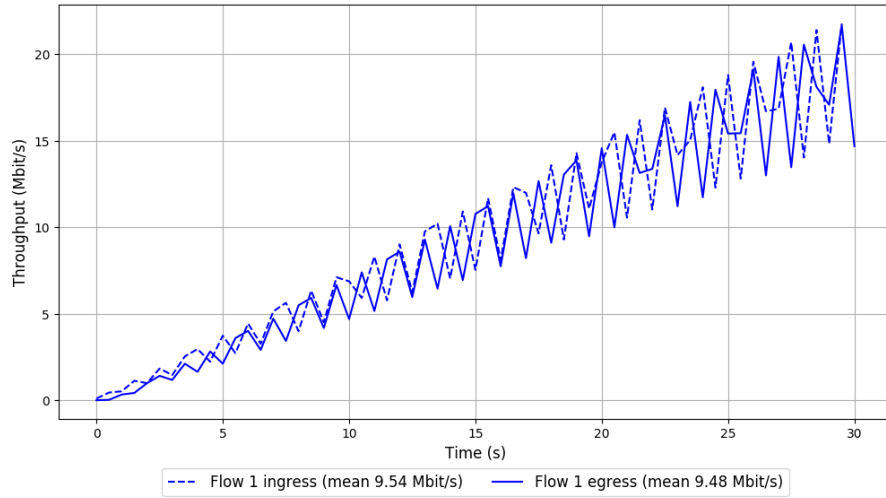Flow 1 (95th percentile 129.30 ms)

```
Run 5: Statistics of LEDBAT

Start at: 2019-03-27 09:25:38
End at: 2019-03-27 09:26:08
Local clock offset: 1.853 ms
Remote clock offset: -45.242 ms


# Below is generated by plot.py at 2019-03-27 10:01:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.48 Mbit/s
95th percentile per-packet one-way delay: 135.882 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 9.48 Mbit/s
95th percentile per-packet one-way delay: 135.882 ms
Loss rate: 1.30%
```

Run 5: Report of LEDBAT — Data Link

Flow 1 ingress (mean 9.54 Mbit/s)   Flow 1 egress (mean 9.48 Mbit/s)

• Flow 1 (95th percentile 135.88 ms)

```
Run 1: Statistics of PCC-Allegro

Start at: 2019-03-27 07:01:34
End at: 2019-03-27 07:02:04
Local clock offset: 3.386 ms
Remote clock offset: -31.971 ms


# Below is generated by plot.py at 2019-03-27 10:01:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 295.34 Mbit/s
95th percentile per-packet one-way delay: 138.186 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 295.34 Mbit/s
95th percentile per-packet one-way delay: 138.186 ms
Loss rate: 1.04%
```
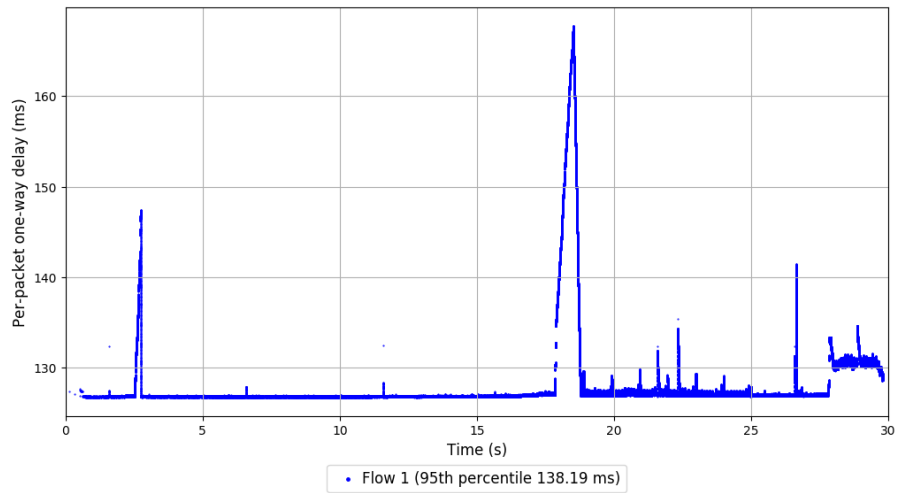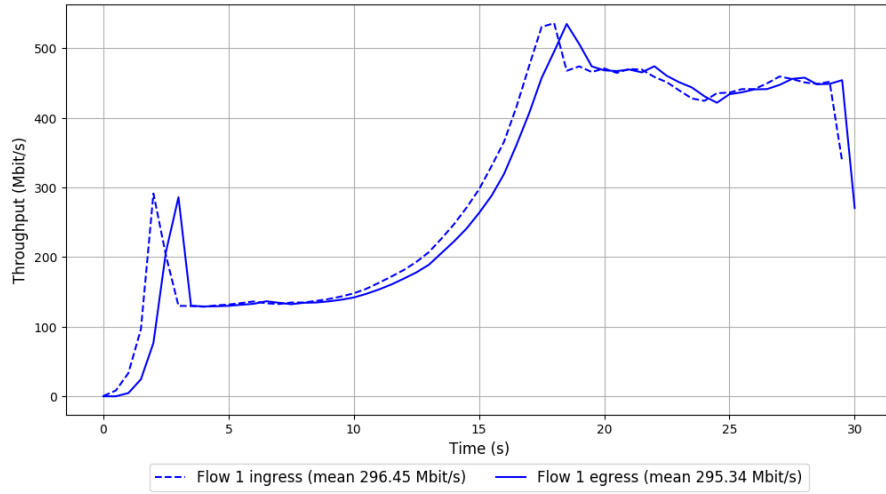
Run 1: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 296.45 Mbit/s) Flow 1 egress (mean 295.34 Mbit/s)

Flow 1 (95th percentile 138.19 ms)

```
Run 2: Statistics of PCC-Allegro

Start at: 2019-03-27 07:41:11
End at: 2019-03-27 07:41:41
Local clock offset: 5.451 ms
Remote clock offset: -39.133 ms

# Below is generated by plot.py at 2019-03-27 10:01:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 307.67 Mbit/s
95th percentile per-packet one-way delay: 143.109 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 307.67 Mbit/s
95th percentile per-packet one-way delay: 143.109 ms
Loss rate: 1.09%
```
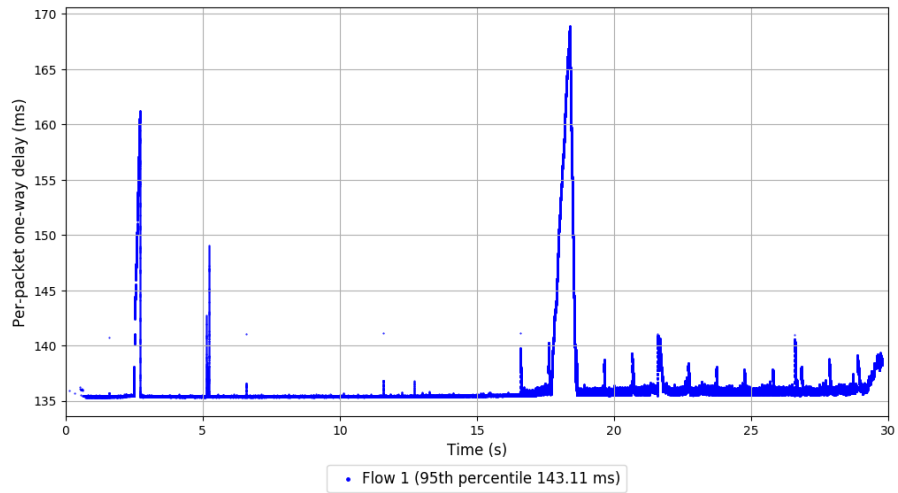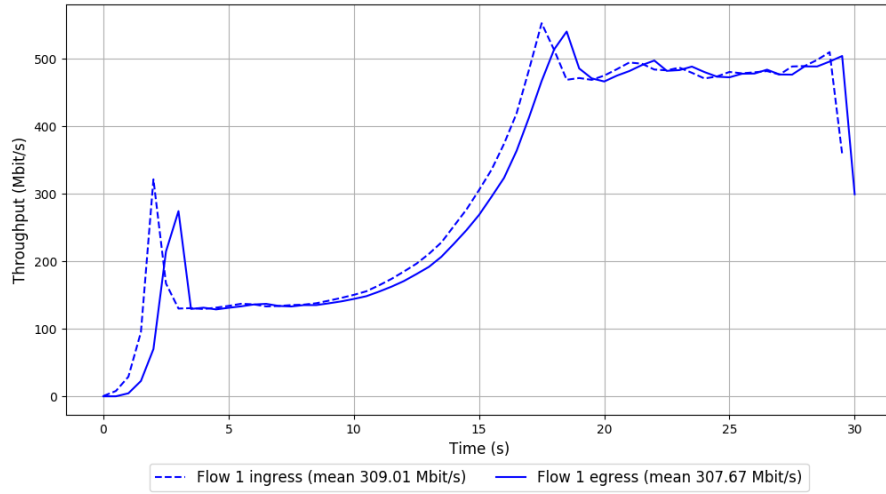
Run 2: Report of PCC-Allegro — Data Link

```
Run 3: Statistics of PCC-Allegro

Start at: 2019-03-27 08:09:29
End at: 2019-03-27 08:09:59
Local clock offset: -6.296 ms
Remote clock offset: -33.88 ms


# Below is generated by plot.py at 2019-03-27 10:04:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 345.30 Mbit/s
95th percentile per-packet one-way delay: 136.514 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 345.30 Mbit/s
95th percentile per-packet one-way delay: 136.514 ms
Loss rate: 0.90%
```
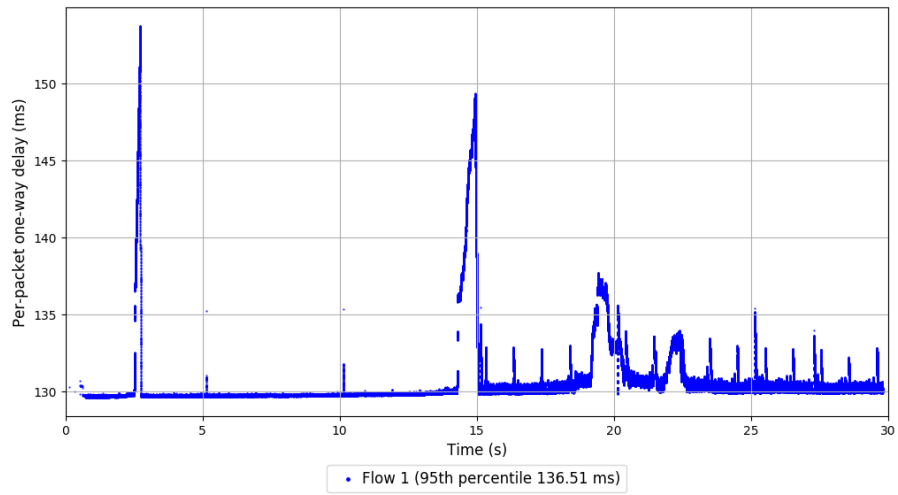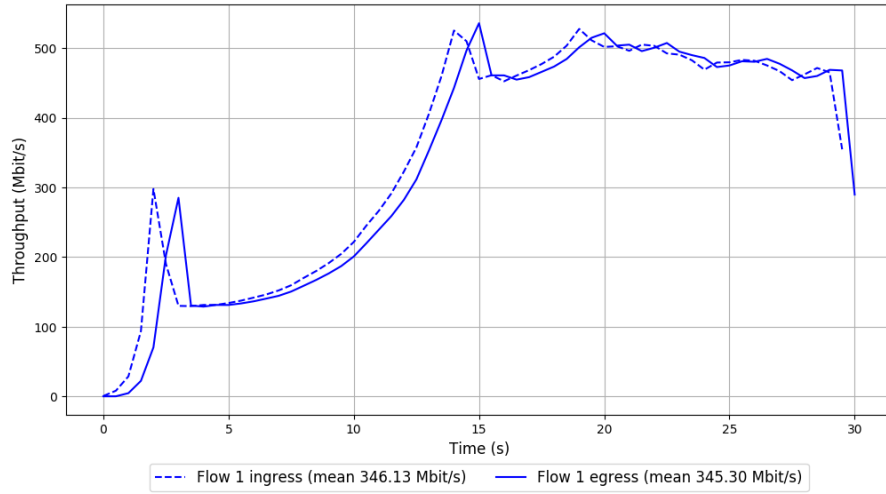
Run 3: Report of PCC-Allegro — Data Link

```
Run 4: Statistics of PCC-Allegro

Start at: 2019-03-27 08:54:37
End at: 2019-03-27 08:55:07
Local clock offset: 1.845 ms
Remote clock offset: -38.284 ms


# Below is generated by plot.py at 2019-03-27 10:05:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 407.34 Mbit/s
95th percentile per-packet one-way delay: 137.019 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 407.34 Mbit/s
95th percentile per-packet one-way delay: 137.019 ms
Loss rate: 0.81%
```
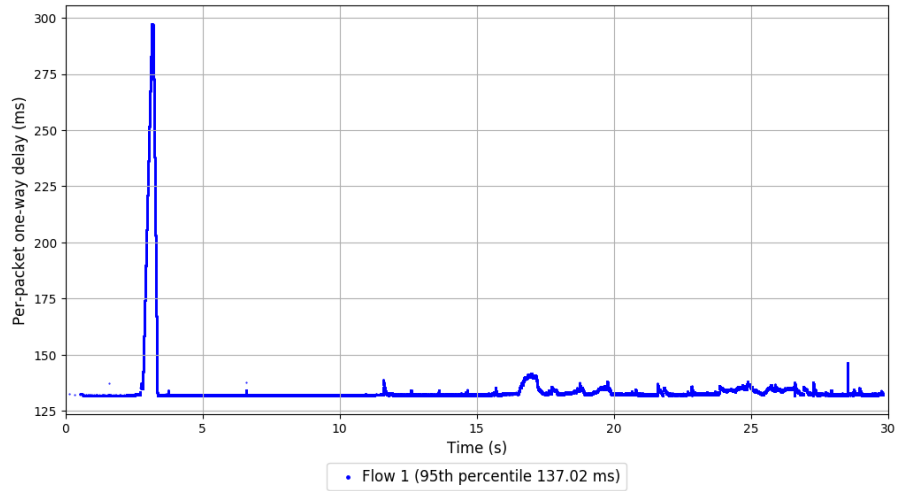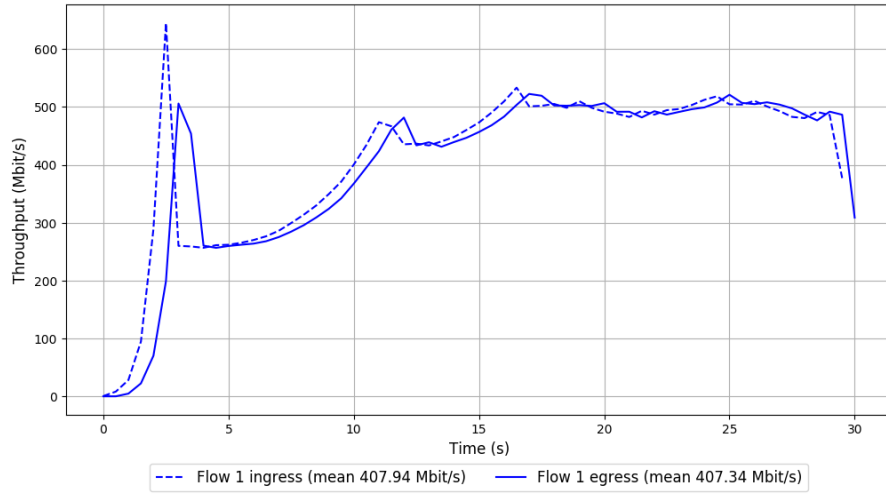
Run 4: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 407.94 Mbit/s)   Flow 1 egress (mean 407.34 Mbit/s)

• Flow 1 (95th percentile 137.02 ms)

```
Run 5: Statistics of PCC-Allegro

Start at: 2019-03-27 09:22:52
End at: 2019-03-27 09:23:22
Local clock offset: 5.308 ms
Remote clock offset: -35.588 ms


# Below is generated by plot.py at 2019-03-27 10:05:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 298.15 Mbit/s
95th percentile per-packet one-way delay: 140.896 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 298.15 Mbit/s
95th percentile per-packet one-way delay: 140.896 ms
Loss rate: 1.08%
```
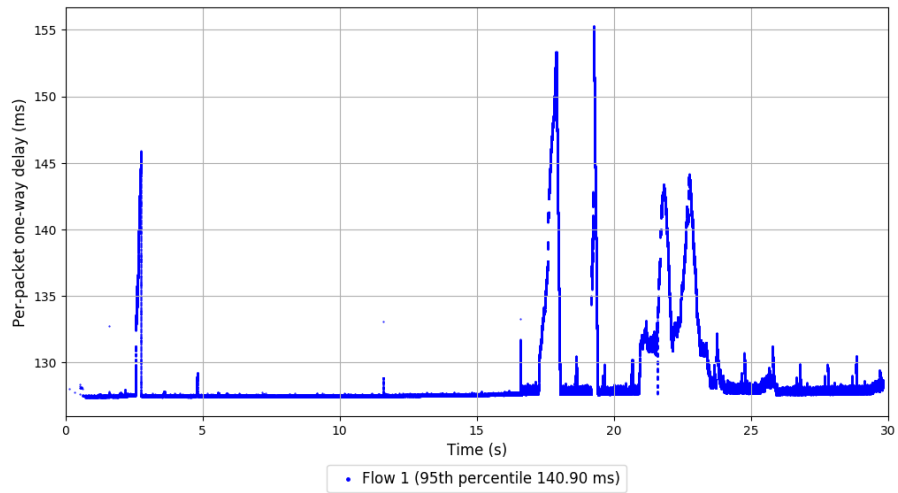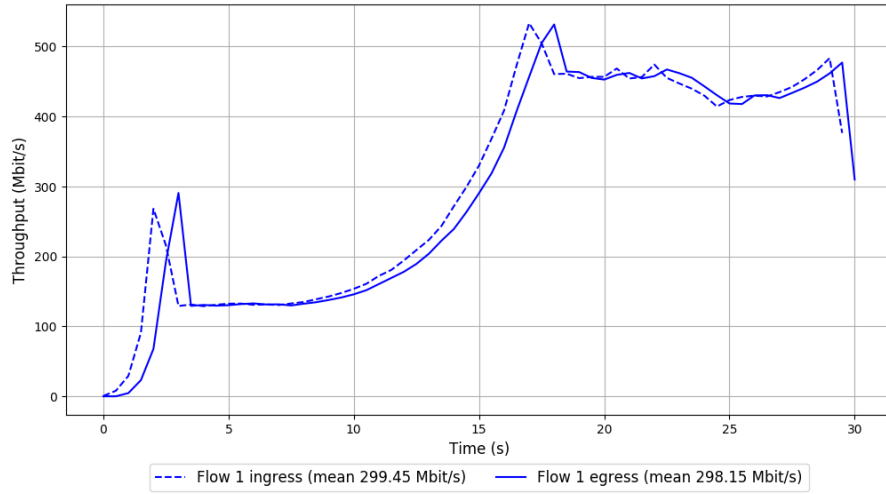
Run 5: Report of PCC-Allegro — Data Link

```
Run 1: Statistics of PCC-Expr

Start at: 2019-03-27 06:42:35
End at: 2019-03-27 06:43:05
Local clock offset: 1.001 ms
Remote clock offset: -37.088 ms


# Below is generated by plot.py at 2019-03-27 10:05:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 185.84 Mbit/s
95th percentile per-packet one-way delay: 157.922 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 185.84 Mbit/s
95th percentile per-packet one-way delay: 157.922 ms
Loss rate: 0.70%
```
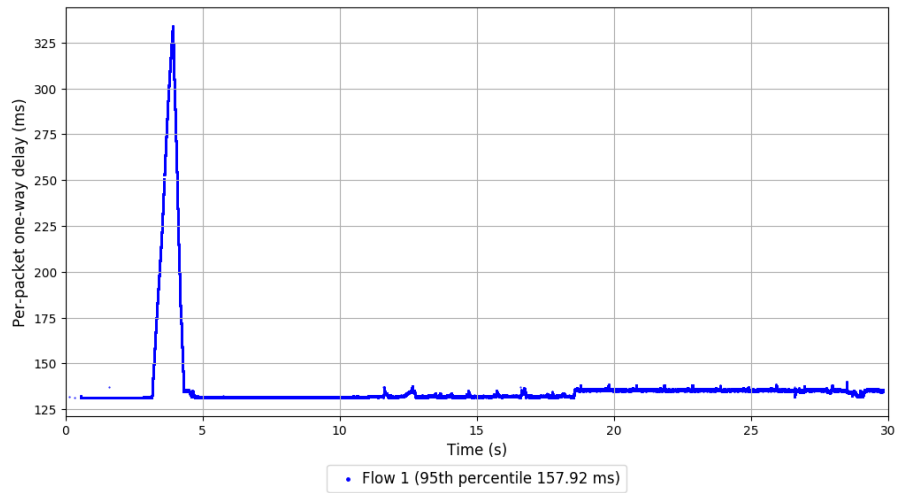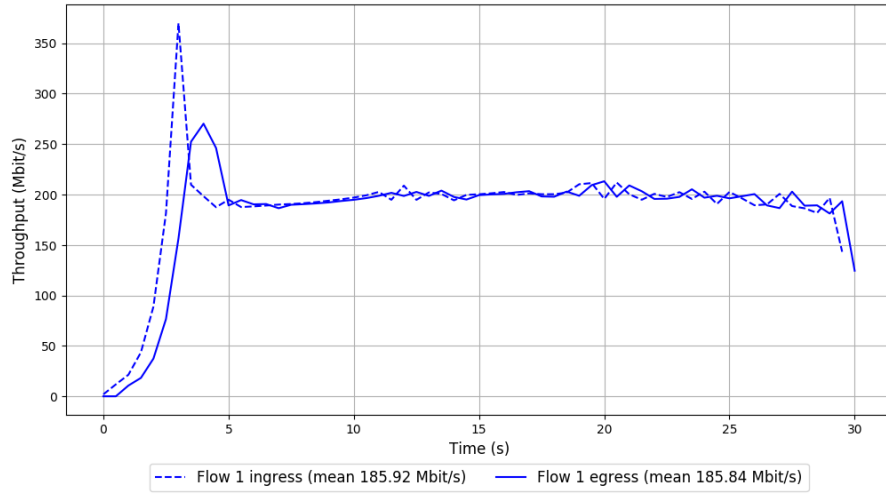
Run 1: Report of PCC-Expr — Data Link

```
Run 2: Statistics of PCC-Expr

Start at: 2019-03-27 07:27:42
End at: 2019-03-27 07:28:12
Local clock offset: 3.57 ms
Remote clock offset: -36.243 ms


# Below is generated by plot.py at 2019-03-27 10:05:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 182.56 Mbit/s
95th percentile per-packet one-way delay: 228.851 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 182.56 Mbit/s
95th percentile per-packet one-way delay: 228.851 ms
Loss rate: 0.74%
```
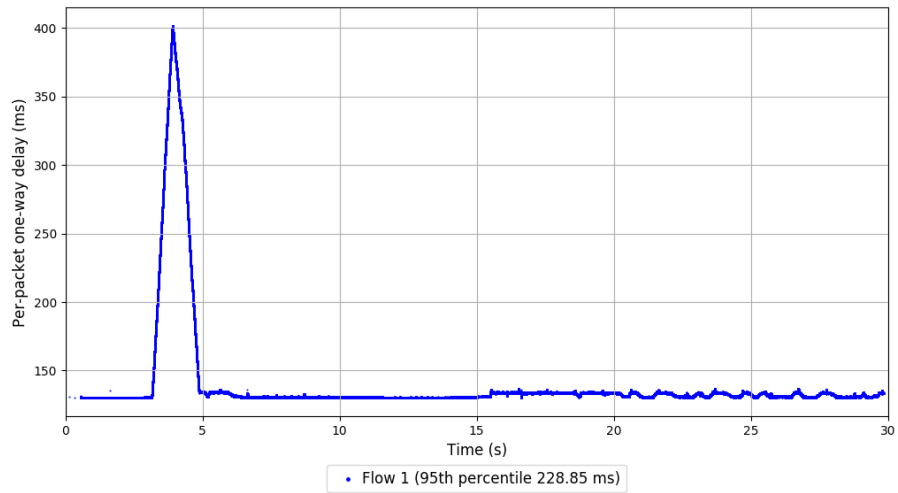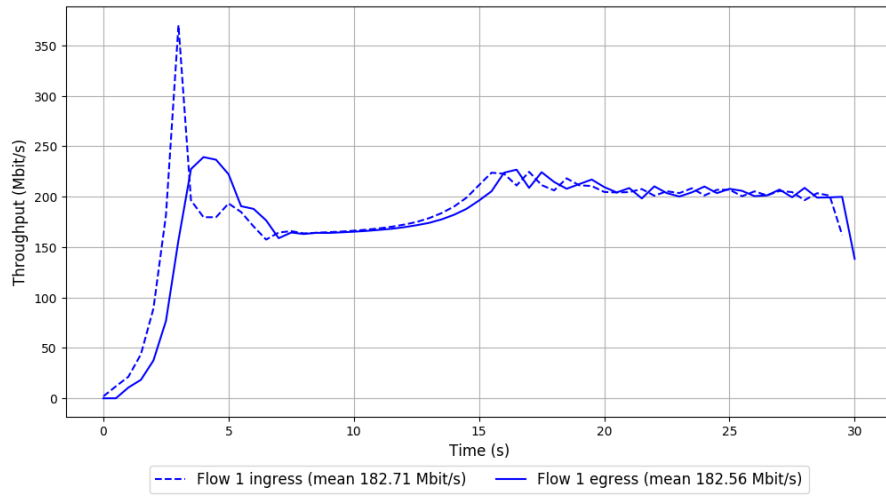
Run 2: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 182.71 Mbit/s) --- Flow 1 egress (mean 182.56 Mbit/s)
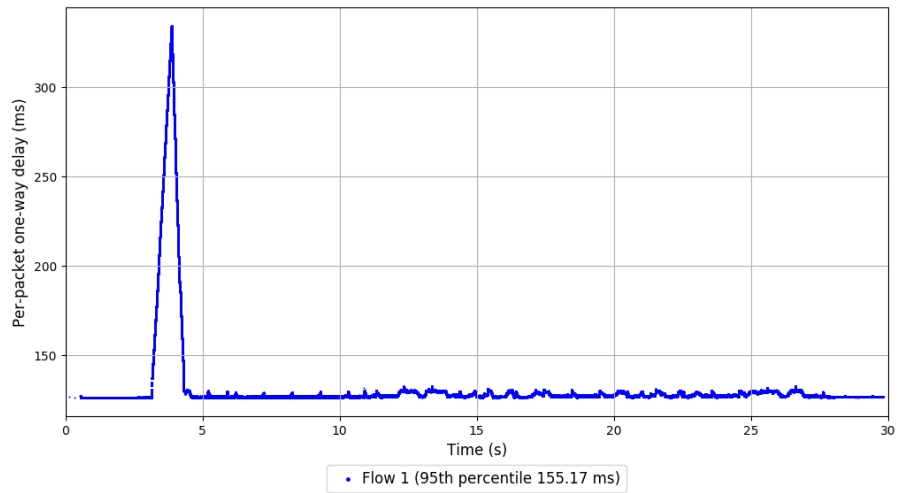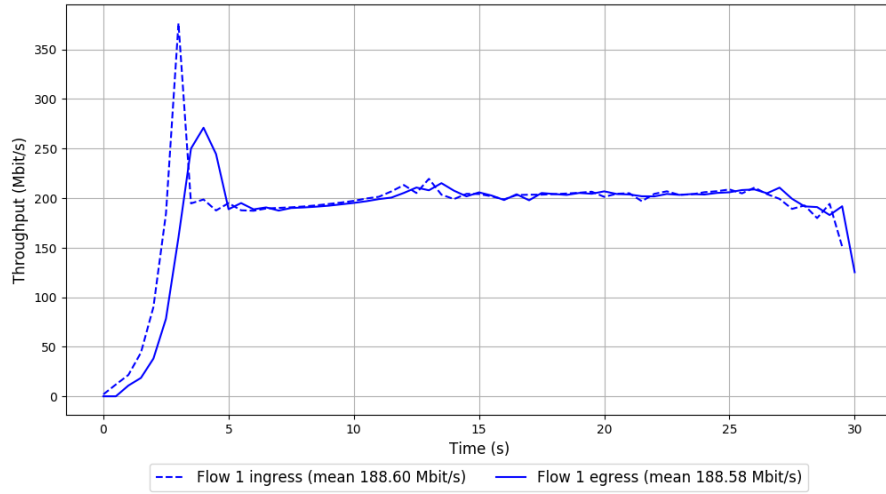

Flow 1 (95th percentile 228.85 ms)

```
Run 3: Statistics of PCC-Expr

Start at: 2019-03-27 07:56:14
End at: 2019-03-27 07:56:44
Local clock offset: -1.932 ms
Remote clock offset: -31.583 ms


# Below is generated by plot.py at 2019-03-27 10:05:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 188.58 Mbit/s
95th percentile per-packet one-way delay: 155.168 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 188.58 Mbit/s
95th percentile per-packet one-way delay: 155.168 ms
Loss rate: 0.66%
```
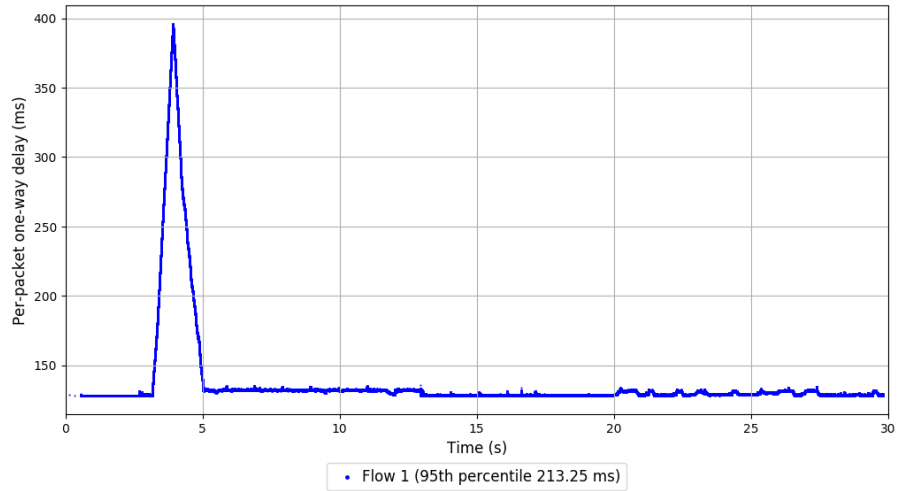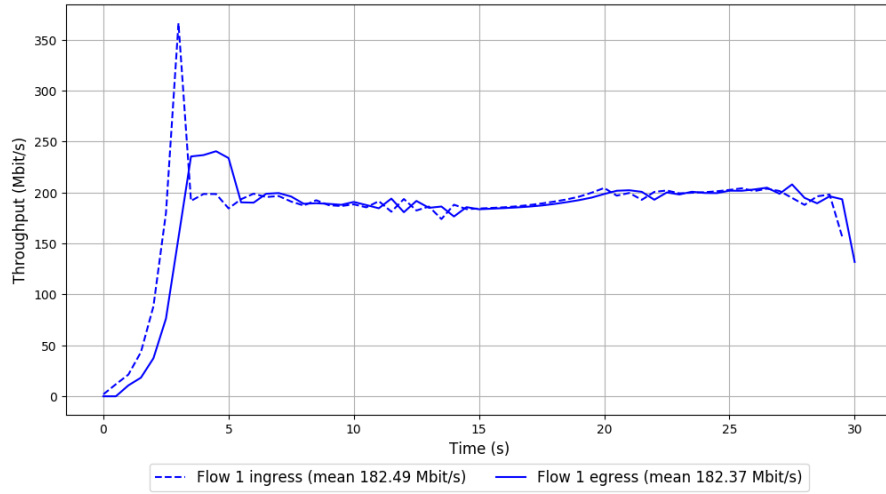
Run 3: Report of PCC-Expr — Data Link

```
Run 4: Statistics of PCC-Expr

Start at: 2019-03-27 08:35:42
End at: 2019-03-27 08:36:12
Local clock offset: -3.724 ms
Remote clock offset: -32.686 ms


# Below is generated by plot.py at 2019-03-27 10:05:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 182.37 Mbit/s
95th percentile per-packet one-way delay: 213.245 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 182.37 Mbit/s
95th percentile per-packet one-way delay: 213.245 ms
Loss rate: 0.72%
```

Run 4: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 182.49 Mbit/s) — — — Flow 1 egress (mean 182.37 Mbit/s)
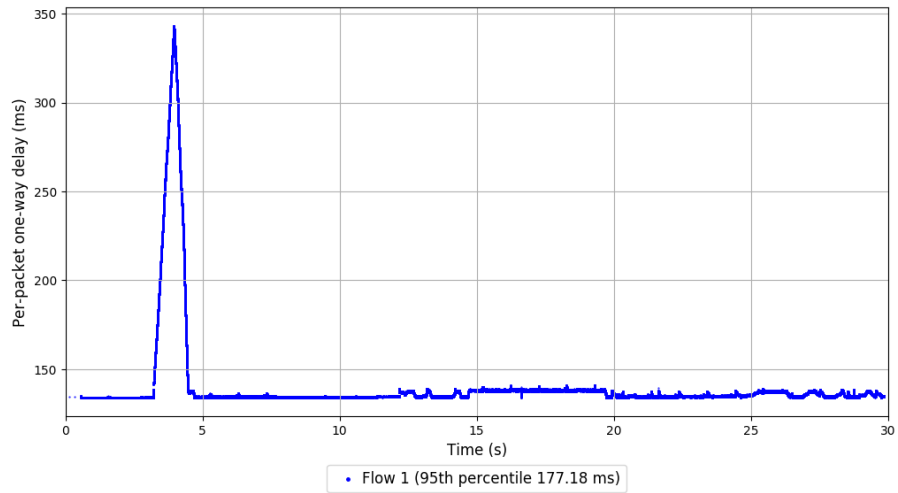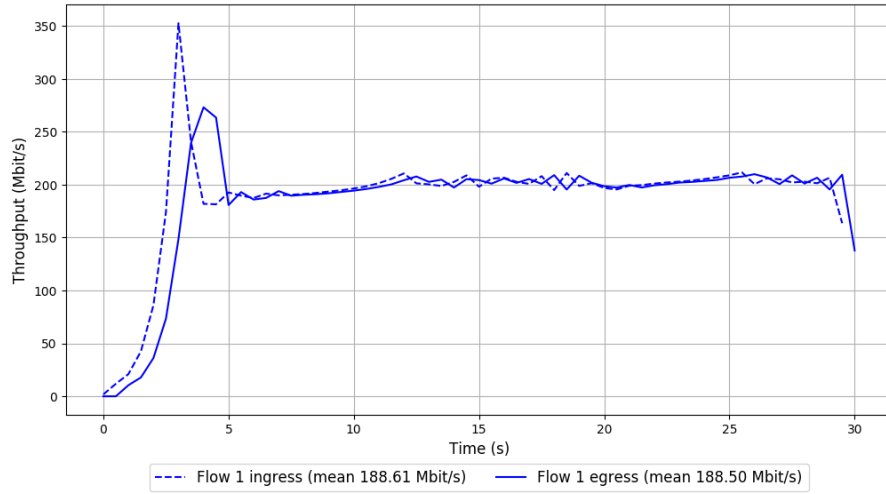

• Flow 1 (95th percentile 213.25 ms)

```
Run 5: Statistics of PCC-Expr

Start at: 2019-03-27 09:09:40
End at: 2019-03-27 09:10:10
Local clock offset: 6.879 ms
Remote clock offset: -39.485 ms

# Below is generated by plot.py at 2019-03-27 10:06:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 188.50 Mbit/s
95th percentile per-packet one-way delay: 177.182 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 188.50 Mbit/s
95th percentile per-packet one-way delay: 177.182 ms
Loss rate: 0.72%
```
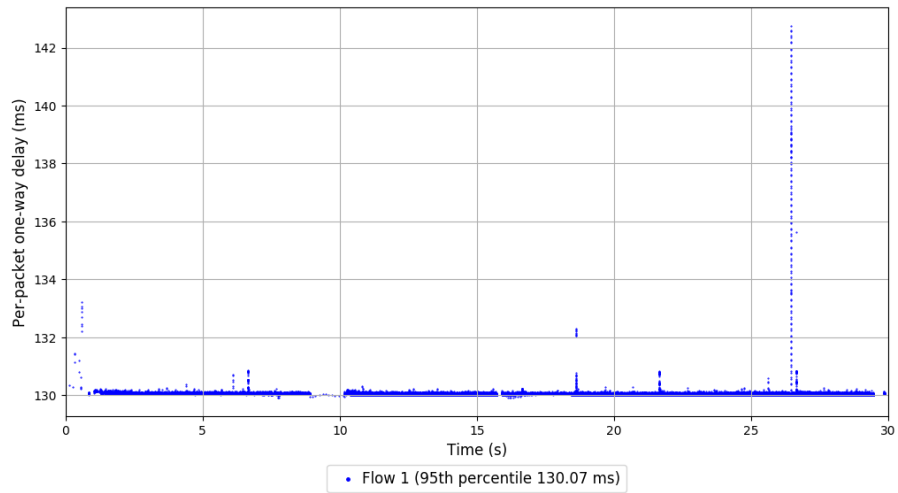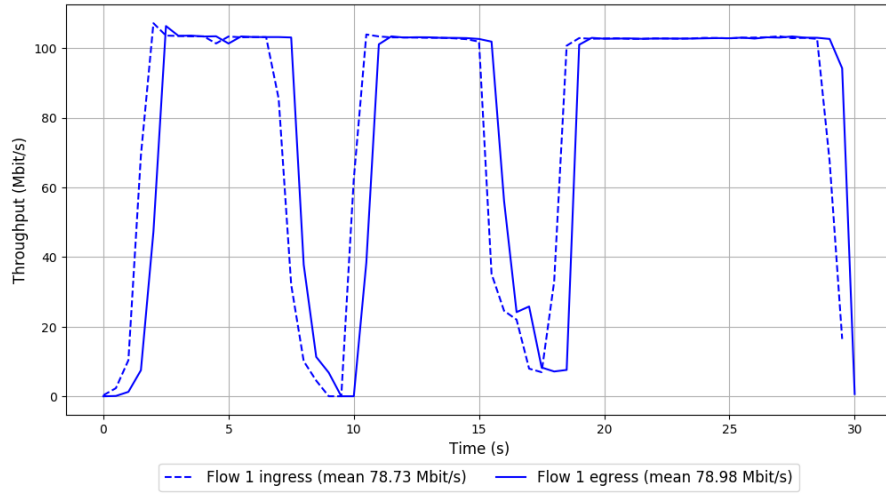
Run 5: Report of PCC-Expr — Data Link

```
Run 1: Statistics of QUIC Cubic

Start at: 2019-03-27 06:57:44
End at: 2019-03-27 06:58:14
Local clock offset: 2.265 ms
Remote clock offset: -36.168 ms


# Below is generated by plot.py at 2019-03-27 10:06:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.98 Mbit/s
95th percentile per-packet one-way delay: 130.070 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 78.98 Mbit/s
95th percentile per-packet one-way delay: 130.070 ms
Loss rate: 0.34%
```
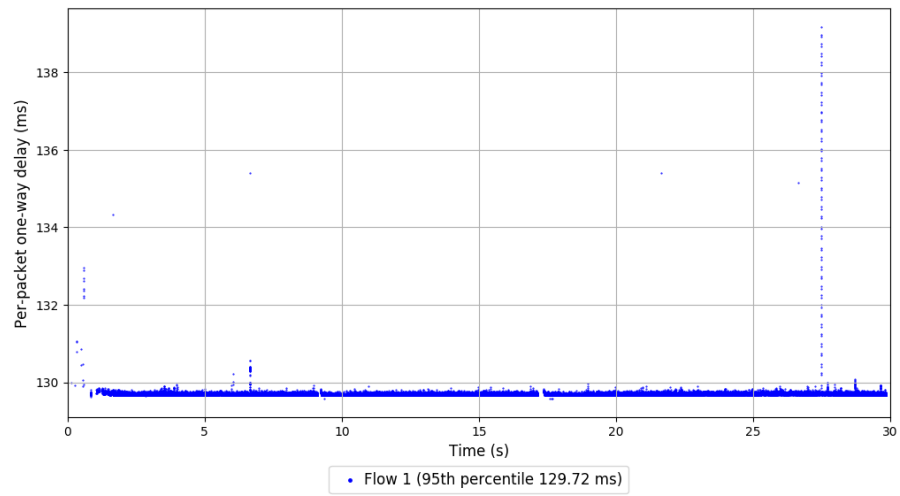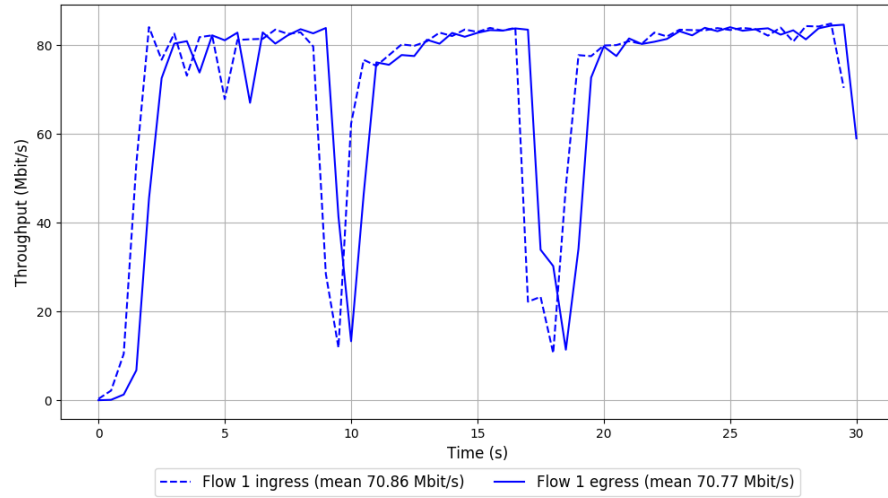
Run 1: Report of QUIC Cubic — Data Link

```
Run 2: Statistics of QUIC Cubic

Start at: 2019-03-27 07:37:32
End at: 2019-03-27 07:38:02
Local clock offset: 5.746 ms
Remote clock offset: -33.081 ms


# Below is generated by plot.py at 2019-03-27 10:06:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.77 Mbit/s
95th percentile per-packet one-way delay: 129.724 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 70.77 Mbit/s
95th percentile per-packet one-way delay: 129.724 ms
Loss rate: 0.79%
```
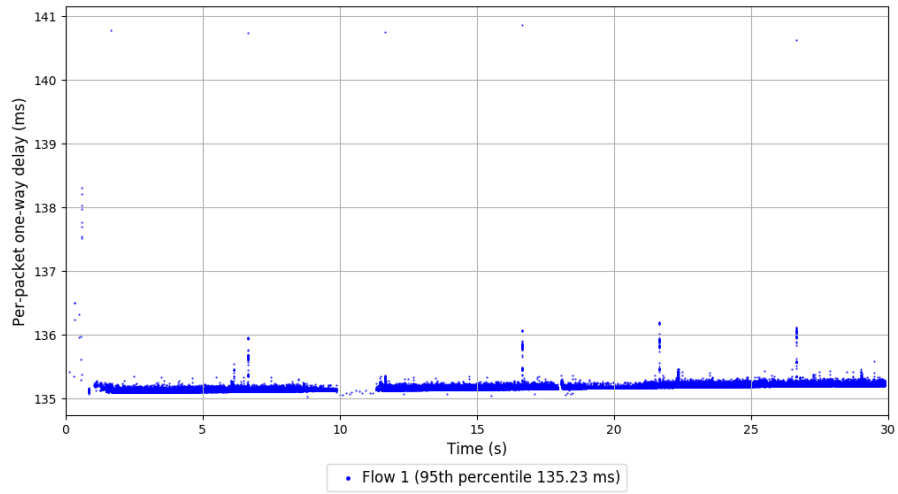
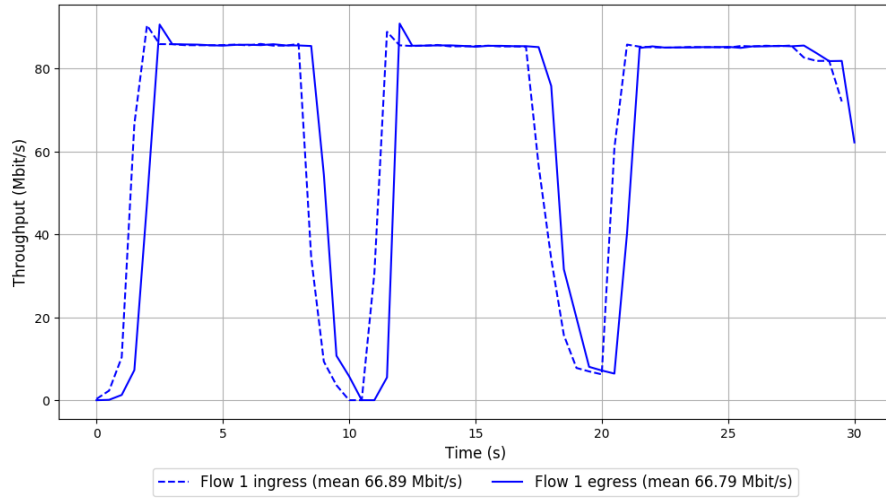Run 2: Report of QUIC Cubic — Data Link

```
Run 3: Statistics of QUIC Cubic

Start at: 2019-03-27 08:05:50
End at: 2019-03-27 08:06:20
Local clock offset: -3.928 ms
Remote clock offset: -38.199 ms


# Below is generated by plot.py at 2019-03-27 10:06:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.79 Mbit/s
95th percentile per-packet one-way delay: 135.232 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 66.79 Mbit/s
95th percentile per-packet one-way delay: 135.232 ms
Loss rate: 0.80%
```

Run 3: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 66.89 Mbit/s) --- Flow 1 egress (mean 66.79 Mbit/s)
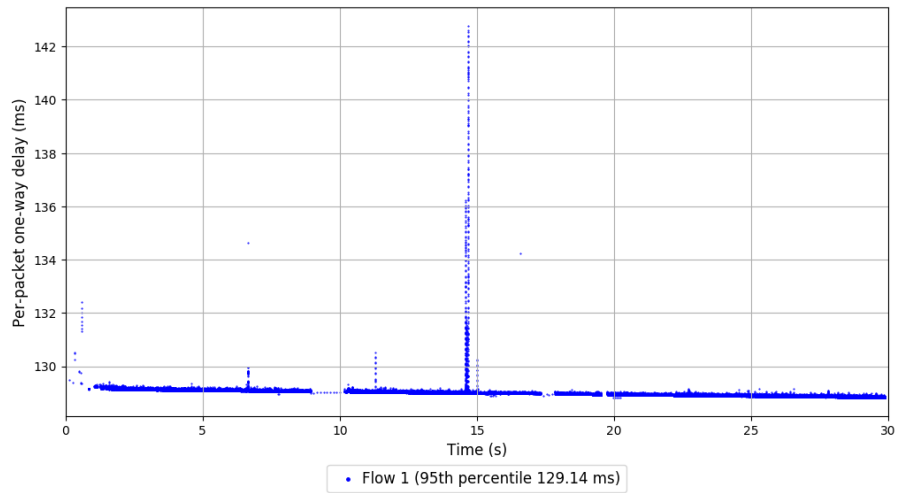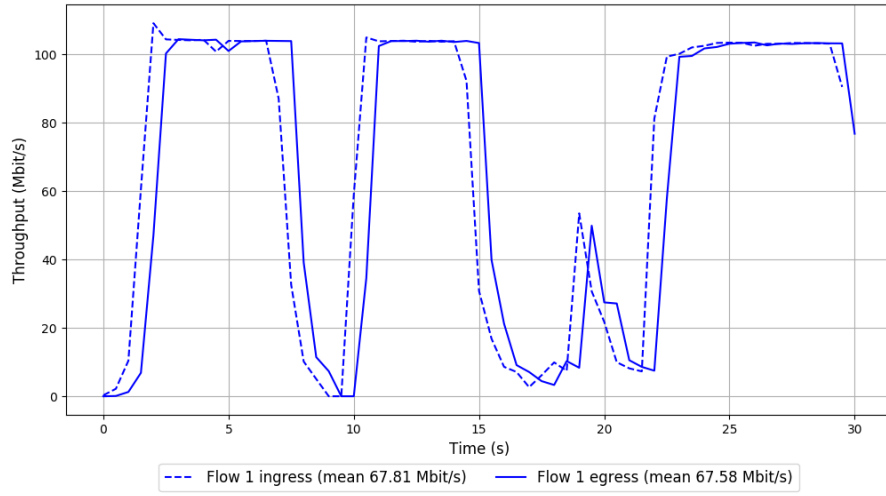

Flow 1 (95th percentile 135.23 ms)

```
Run 4: Statistics of QUIC Cubic

Start at: 2019-03-27 08:50:58
End at: 2019-03-27 08:51:28
Local clock offset: 0.636 ms
Remote clock offset: -35.212 ms


# Below is generated by plot.py at 2019-03-27 10:06:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.58 Mbit/s
95th percentile per-packet one-way delay: 129.138 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 67.58 Mbit/s
95th percentile per-packet one-way delay: 129.138 ms
Loss rate: 0.99%
```

Run 4: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 67.81 Mbit/s) ----   Flow 1 egress (mean 67.58 Mbit/s) ——
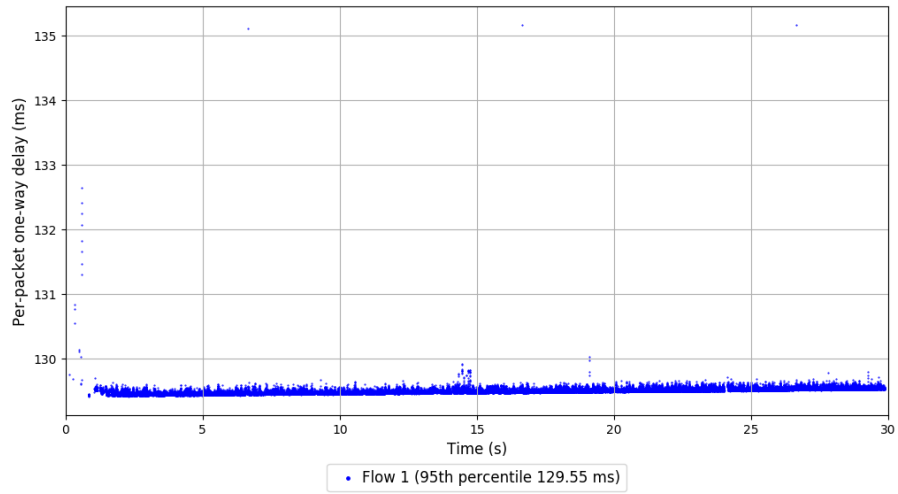

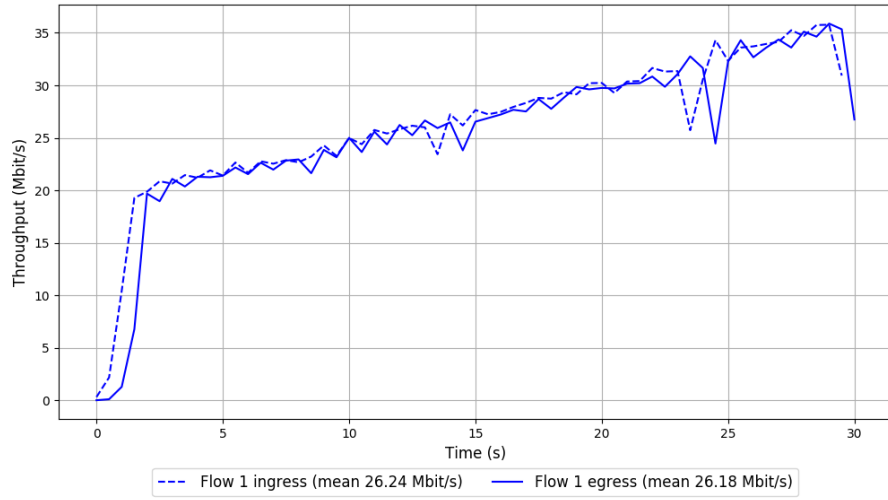• Flow 1 (95th percentile 129.14 ms)

```
Run 5: Statistics of QUIC Cubic

Start at: 2019-03-27 09:19:14
End at: 2019-03-27 09:19:44
Local clock offset: 5.934 ms
Remote clock offset: -36.158 ms


# Below is generated by plot.py at 2019-03-27 10:06:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.18 Mbit/s
95th percentile per-packet one-way delay: 129.551 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 26.18 Mbit/s
95th percentile per-packet one-way delay: 129.551 ms
Loss rate: 0.87%
```

Run 5: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 26.24 Mbit/s)   Flow 1 egress (mean 26.18 Mbit/s)
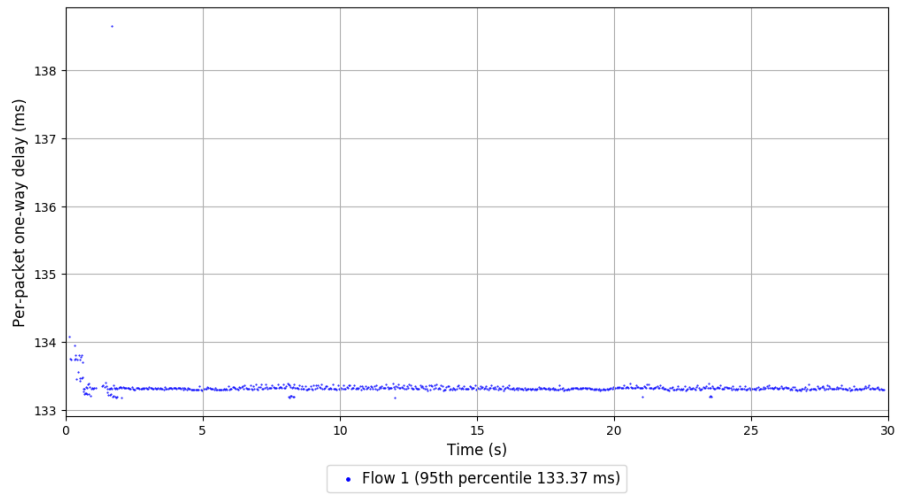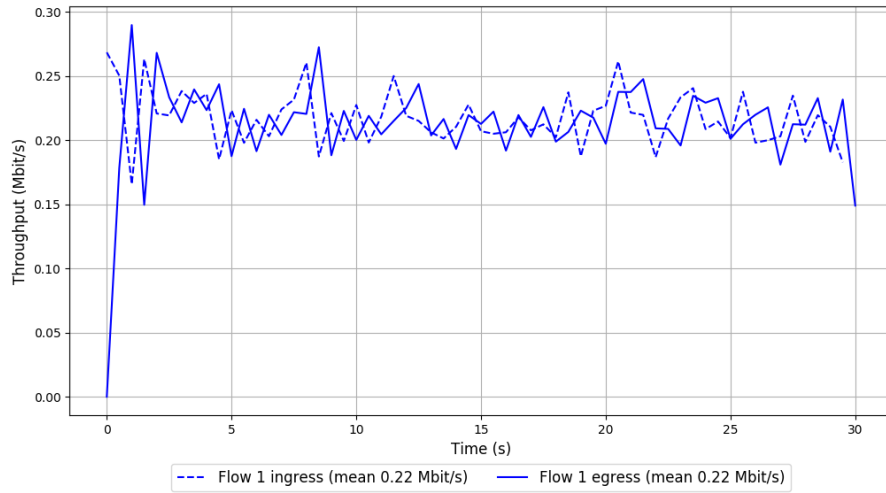

Flow 1 (95th percentile 129.55 ms)

```
Run 1: Statistics of SCReAM

Start at: 2019-03-27 07:08:19
End at: 2019-03-27 07:08:49
Local clock offset: 2.577 ms
Remote clock offset: -38.802 ms


# Below is generated by plot.py at 2019-03-27 10:06:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 133.372 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 133.372 ms
Loss rate: 0.64%
```

Run 1: Report of SCReAM — Data Link

Flow 1 ingress (mean 0.22 Mbit/s) --- Flow 1 egress (mean 0.22 Mbit/s)

Flow 1 (95th percentile 133.37 ms)

```
Run 2: Statistics of SCReAM

Start at: 2019-03-27 07:47:54
End at: 2019-03-27 07:48:24
Local clock offset: 4.126 ms
Remote clock offset: -32.88 ms


# Below is generated by plot.py at 2019-03-27 10:06:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 130.633 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 130.633 ms
Loss rate: 0.64%
```
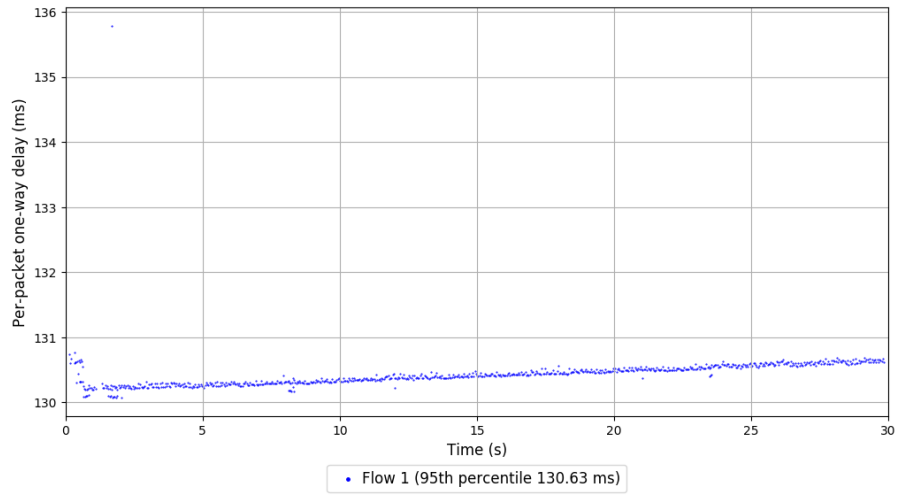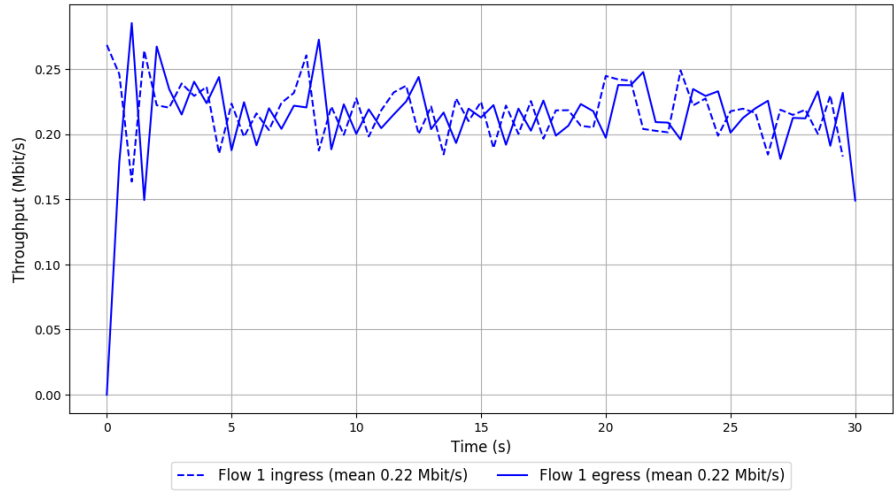
Run 2: Report of SCReAM — Data Link

Flow 1 ingress (mean 0.22 Mbit/s) — — — Flow 1 egress (mean 0.22 Mbit/s)
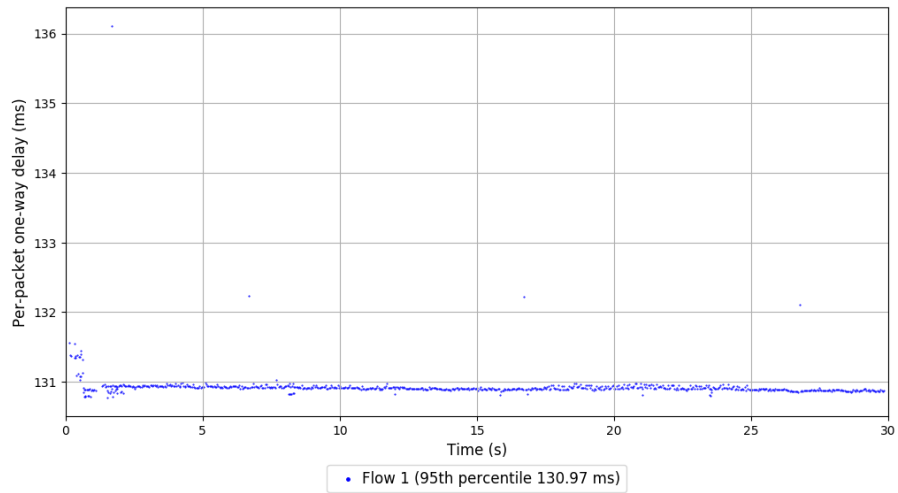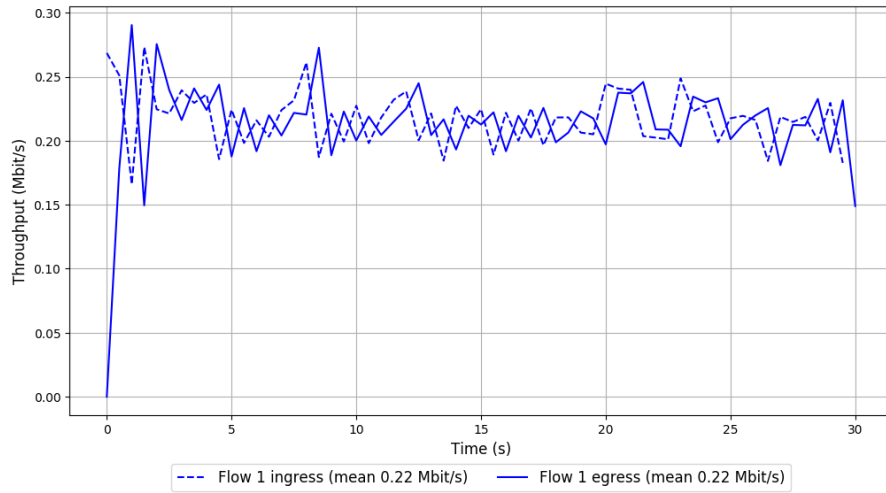

• Flow 1 (95th percentile 130.63 ms)

```
Run 3: Statistics of SCReAM

Start at: 2019-03-27 08:21:44
End at: 2019-03-27 08:22:14
Local clock offset: -4.045 ms
Remote clock offset: -33.767 ms


# Below is generated by plot.py at 2019-03-27 10:06:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 130.968 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 130.968 ms
Loss rate: 0.64%
```
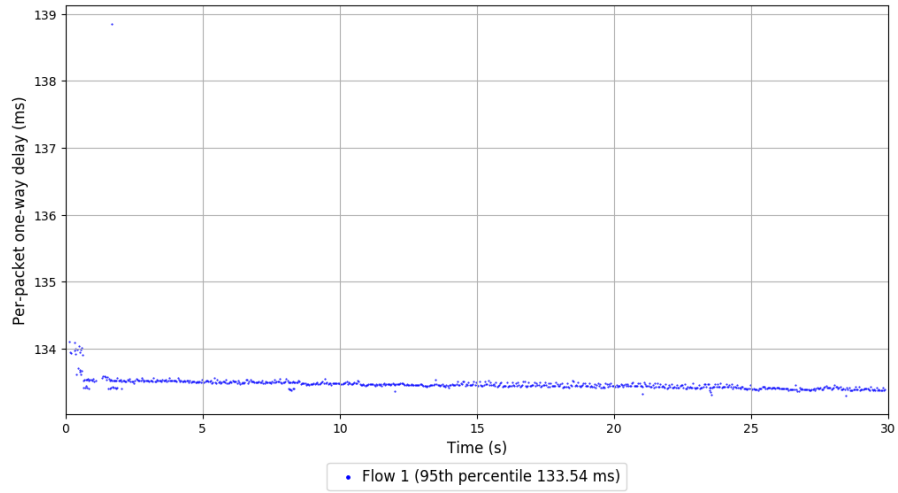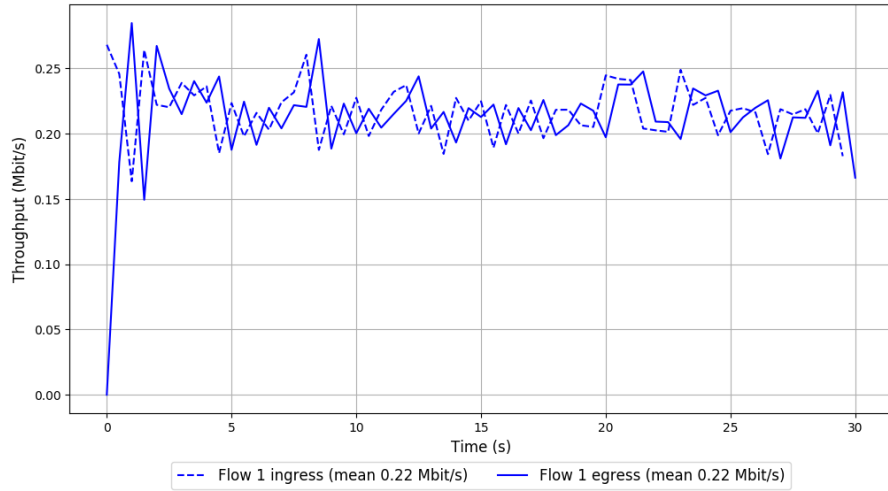
Run 3: Report of SCReAM — Data Link

```
Run 4: Statistics of SCReAM

Start at: 2019-03-27 09:01:26
End at: 2019-03-27 09:01:56
Local clock offset: 4.308 ms
Remote clock offset: -40.269 ms


# Below is generated by plot.py at 2019-03-27 10:06:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 133.545 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 133.545 ms
Loss rate: 0.51%
```

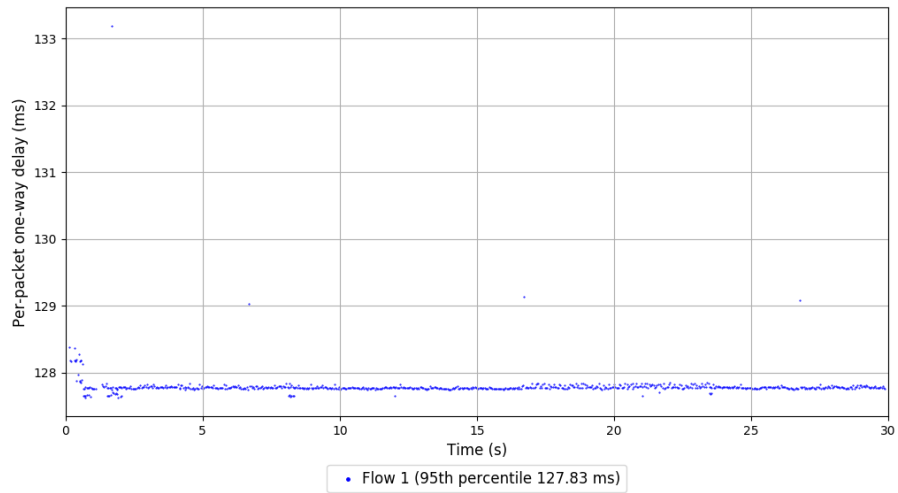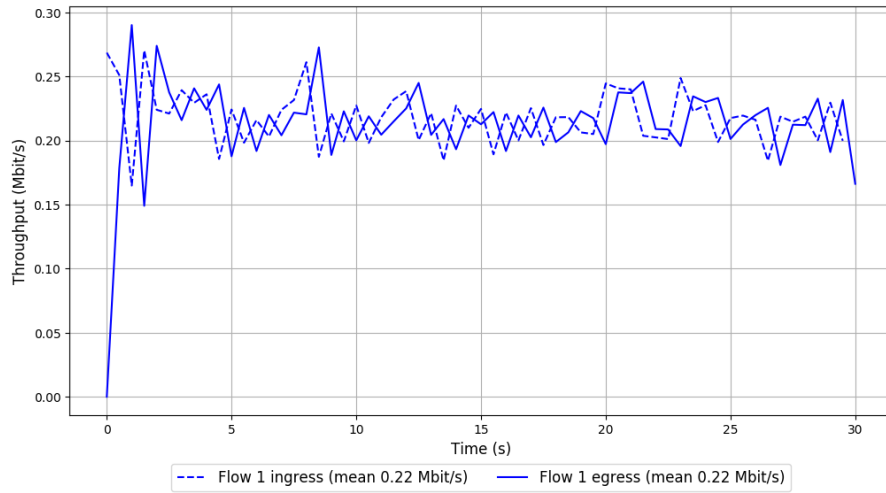Run 4: Report of SCReAM — Data Link

```
Run 5: Statistics of SCReAM

Start at: 2019-03-27 09:29:38
End at: 2019-03-27 09:30:08
Local clock offset: 5.162 ms
Remote clock offset: -34.207 ms


# Below is generated by plot.py at 2019-03-27 10:06:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 127.833 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 127.833 ms
Loss rate: 0.64%
```

Run 5: Report of SCReAM — Data Link

Flow 1 ingress (mean 0.22 Mbit/s) --- Flow 1 egress (mean 0.22 Mbit/s)

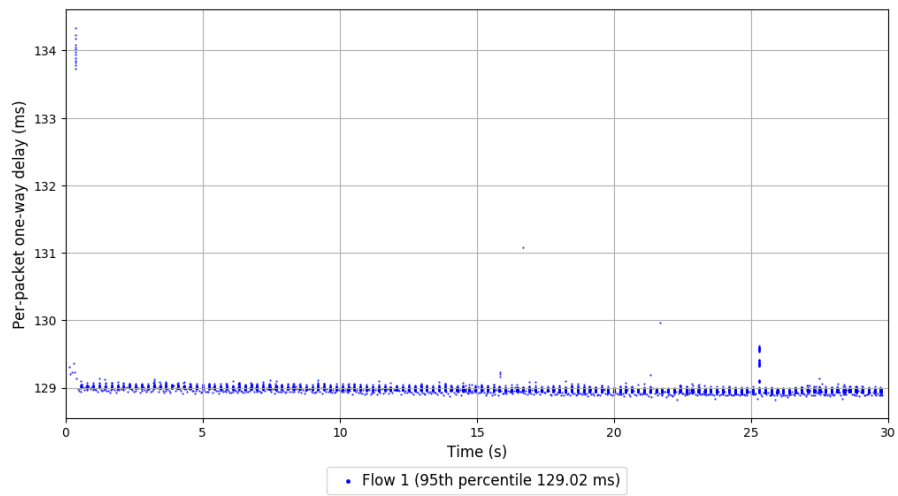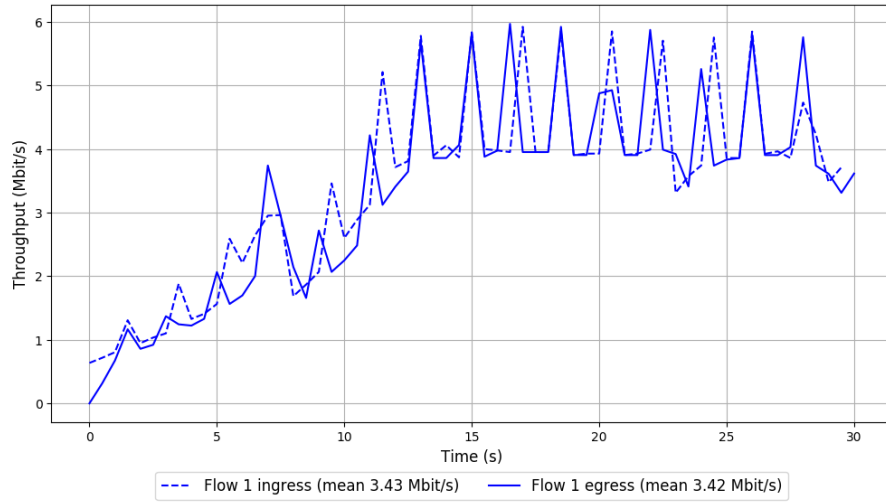Flow 1 (95th percentile 127.83 ms)

```
Run 1: Statistics of Sprout

Start at: 2019-03-27 06:49:37
End at: 2019-03-27 06:50:07
Local clock offset: 1.255 ms
Remote clock offset: -34.583 ms


# Below is generated by plot.py at 2019-03-27 10:06:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.42 Mbit/s
95th percentile per-packet one-way delay: 129.021 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 3.42 Mbit/s
95th percentile per-packet one-way delay: 129.021 ms
Loss rate: 0.92%
```

Run 1: Report of Sprout — Data Link

Flow 1 ingress (mean 3.43 Mbit/s) — — —   Flow 1 egress (mean 3.42 Mbit/s) ———
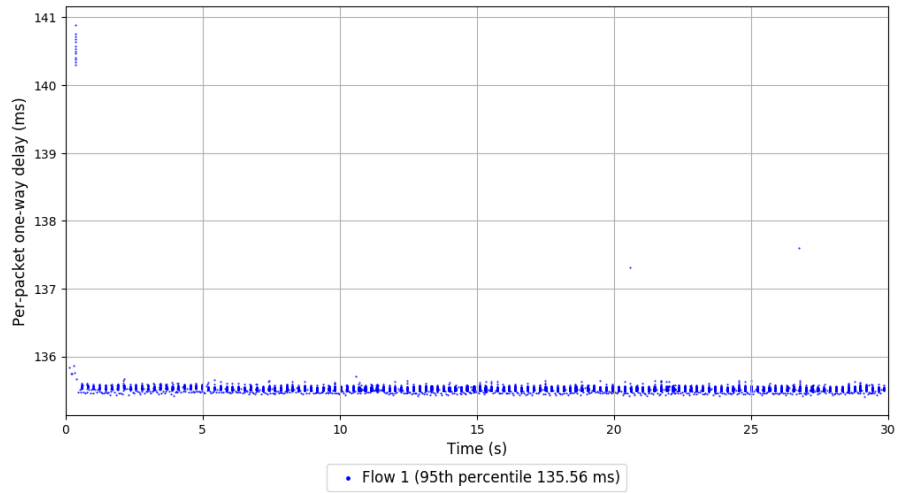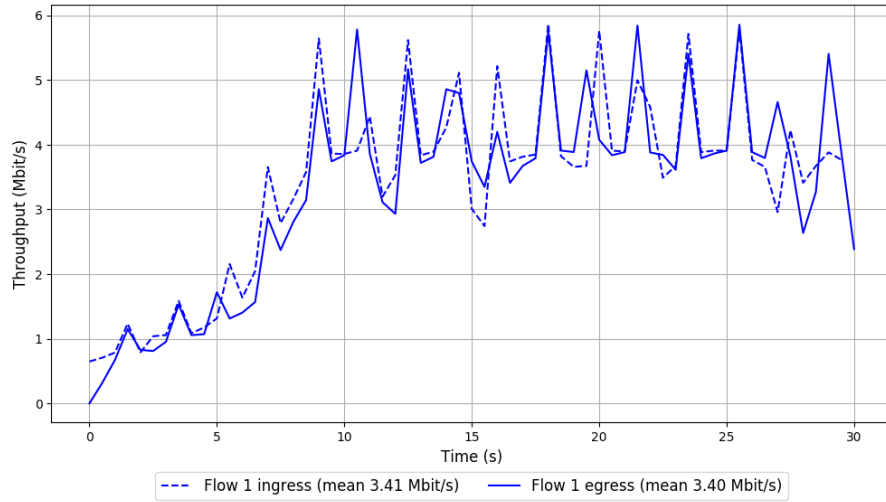

• Flow 1 (95th percentile 129.02 ms)

```
Run 2: Statistics of Sprout

Start at: 2019-03-27 07:34:55
End at: 2019-03-27 07:35:26
Local clock offset: 6.191 ms
Remote clock offset: -38.967 ms


# Below is generated by plot.py at 2019-03-27 10:06:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.40 Mbit/s
95th percentile per-packet one-way delay: 135.559 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 3.40 Mbit/s
95th percentile per-packet one-way delay: 135.559 ms
Loss rate: 0.68%
```

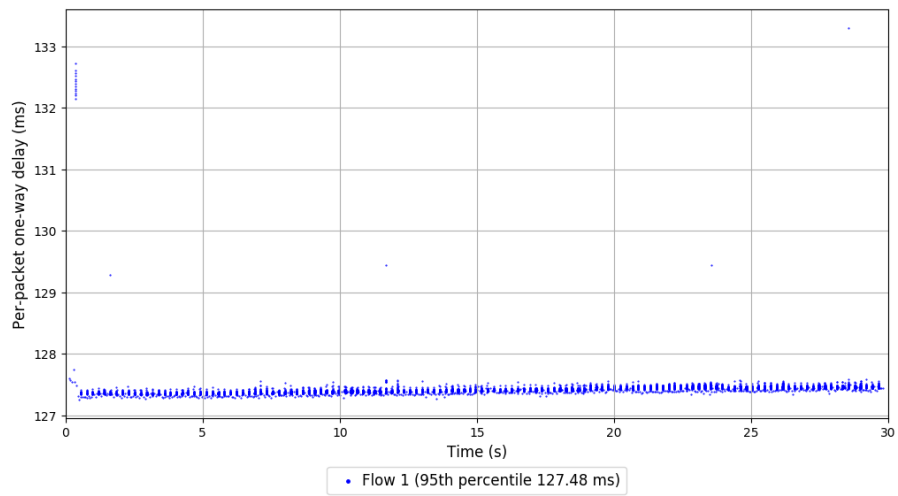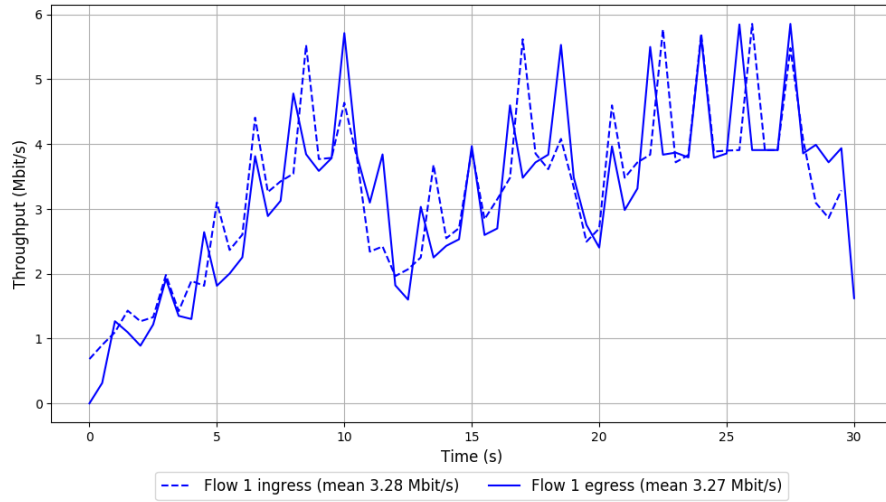Run 2: Report of Sprout — Data Link

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```
Run 3: Statistics of Sprout

Start at: 2019-03-27 08:03:14
End at: 2019-03-27 08:03:44
Local clock offset: -3.588 ms
Remote clock offset: -32.001 ms


# Below is generated by plot.py at 2019-03-27 10:06:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.27 Mbit/s
95th percentile per-packet one-way delay: 127.483 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 3.27 Mbit/s
95th percentile per-packet one-way delay: 127.483 ms
Loss rate: 0.85%
```
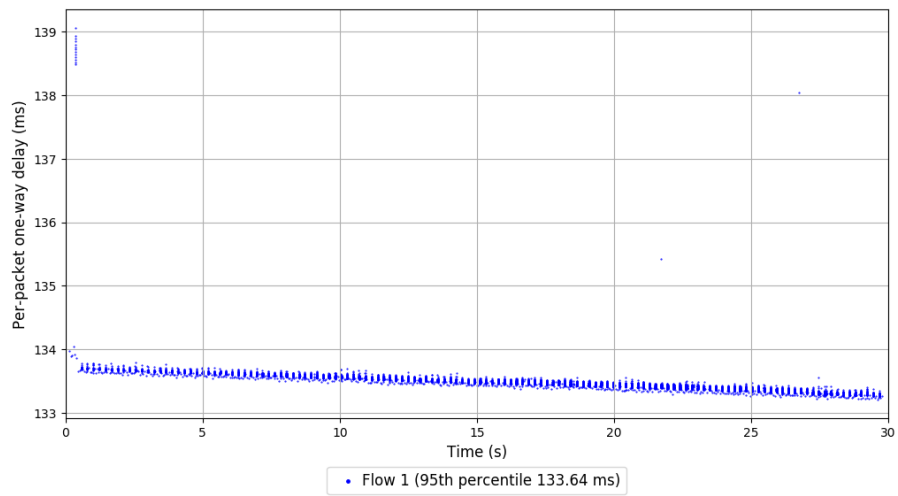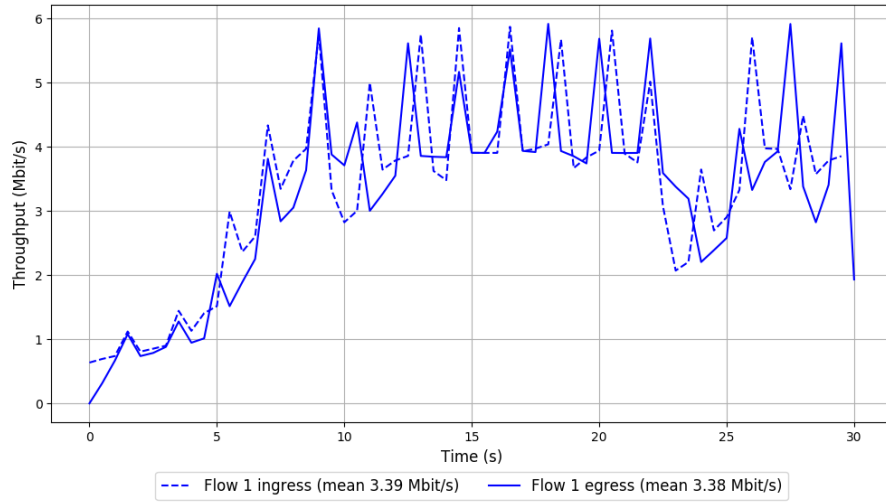
Run 3: Report of Sprout — Data Link

```
Run 4: Statistics of Sprout

Start at: 2019-03-27 08:48:22
End at: 2019-03-27 08:48:52
Local clock offset: -1.349 ms
Remote clock offset: -39.695 ms


# Below is generated by plot.py at 2019-03-27 10:06:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.38 Mbit/s
95th percentile per-packet one-way delay: 133.643 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 3.38 Mbit/s
95th percentile per-packet one-way delay: 133.643 ms
Loss rate: 0.95%
```
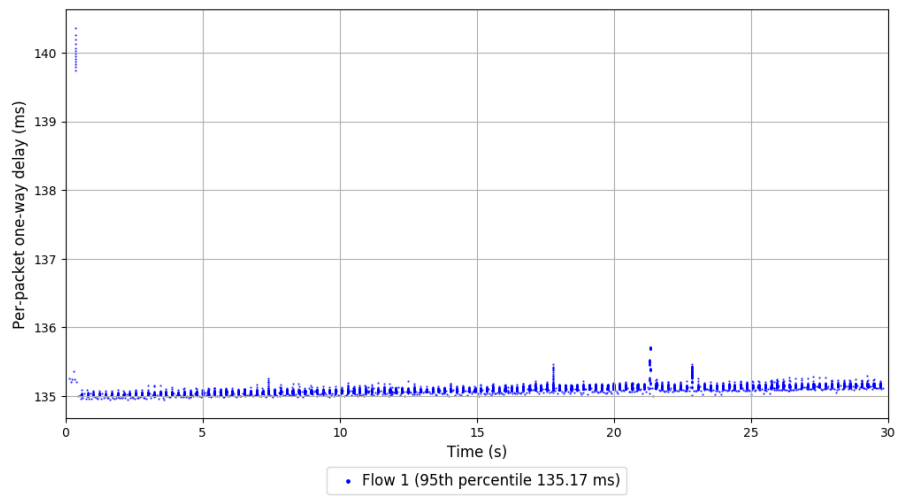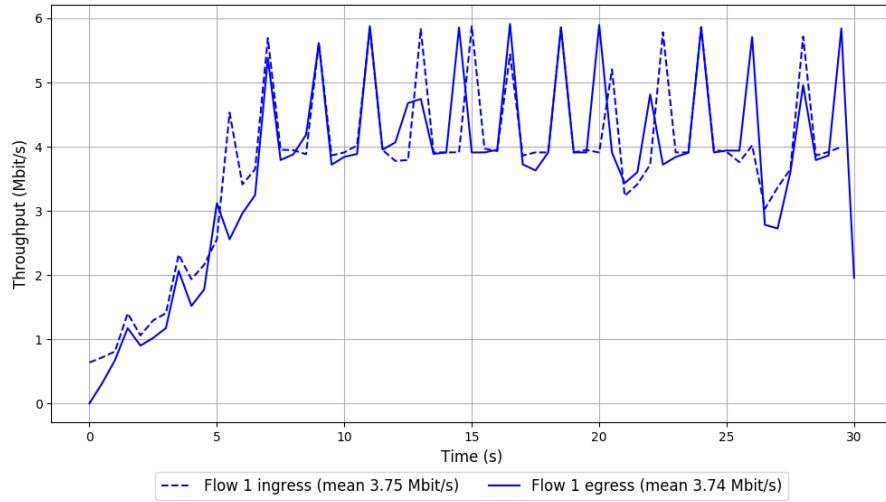
Run 4: Report of Sprout — Data Link

```
Run 5: Statistics of Sprout

Start at: 2019-03-27 09:16:38
End at: 2019-03-27 09:17:08
Local clock offset: 7.17 ms
Remote clock offset: -40.598 ms


# Below is generated by plot.py at 2019-03-27 10:06:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.74 Mbit/s
95th percentile per-packet one-way delay: 135.169 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 3.74 Mbit/s
95th percentile per-packet one-way delay: 135.169 ms
Loss rate: 0.91%
```

Run 5: Report of Sprout — Data Link

```
Run 1: Statistics of TaoVA-100x

Start at: 2019-03-27 07:06:56
End at: 2019-03-27 07:07:26
Local clock offset: 4.425 ms
Remote clock offset: -35.76 ms


# Below is generated by plot.py at 2019-03-27 10:08:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 154.22 Mbit/s
95th percentile per-packet one-way delay: 133.600 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 154.22 Mbit/s
95th percentile per-packet one-way delay: 133.600 ms
Loss rate: 0.71%
```
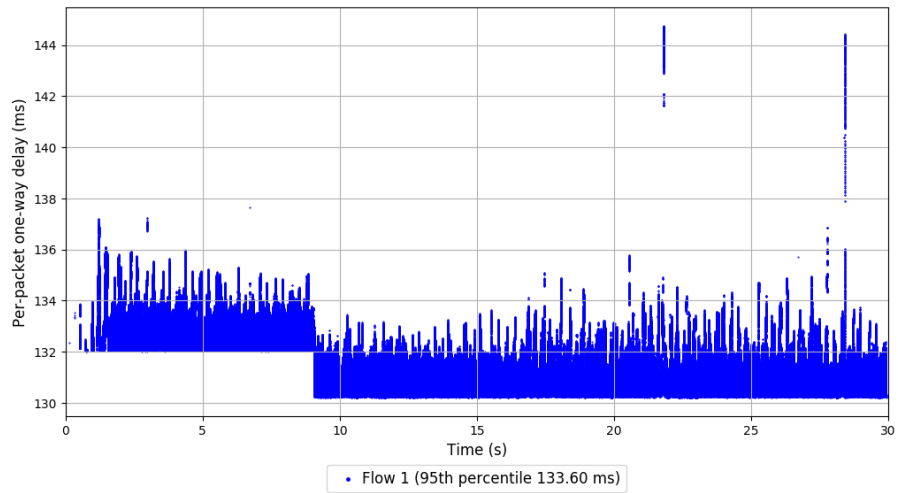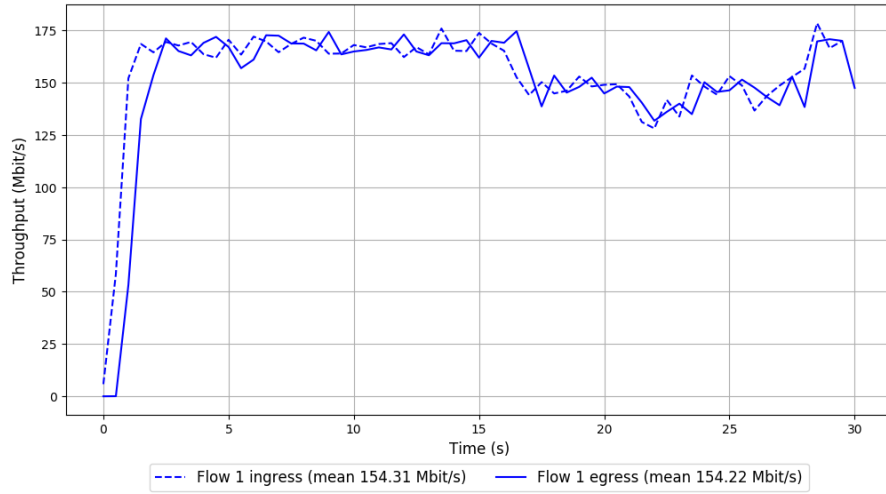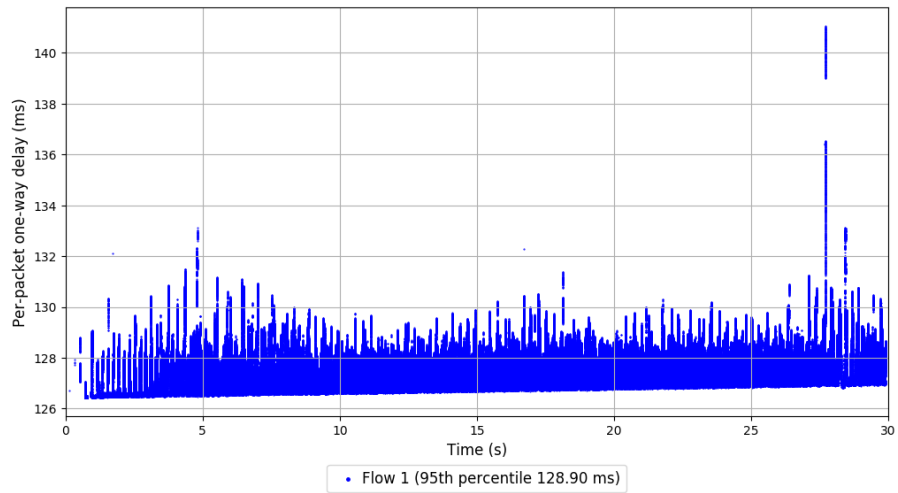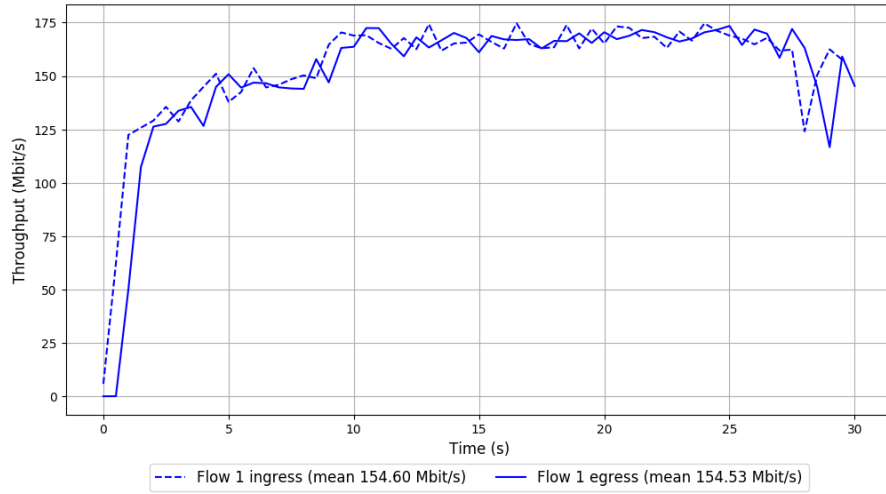
Run 1: Report of TaoVA-100x — Data Link

```
Run 2: Statistics of TaoVA-100x

Start at: 2019-03-27 07:46:31
End at: 2019-03-27 07:47:01
Local clock offset: 4.719 ms
Remote clock offset: -31.834 ms


# Below is generated by plot.py at 2019-03-27 10:08:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 154.53 Mbit/s
95th percentile per-packet one-way delay: 128.903 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 154.53 Mbit/s
95th percentile per-packet one-way delay: 128.903 ms
Loss rate: 0.70%
```

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

Flow 1 ingress (mean 154.60 Mbit/s)   Flow 1 egress (mean 154.53 Mbit/s)
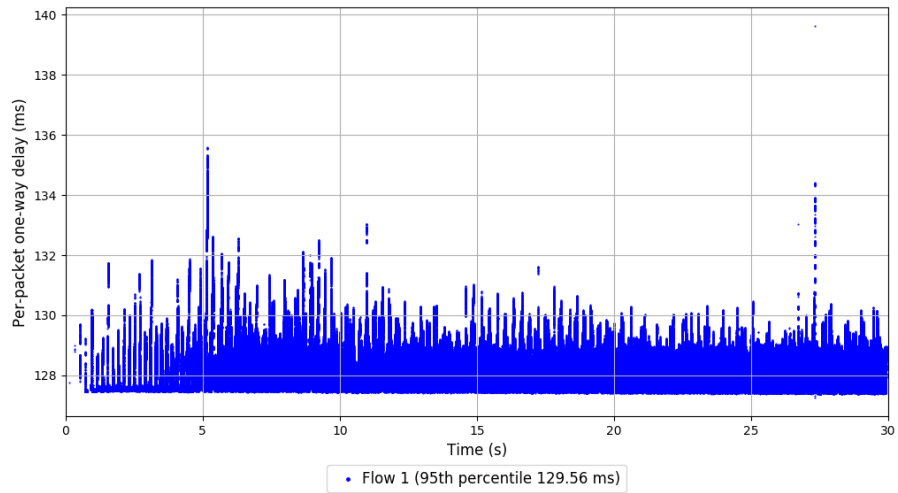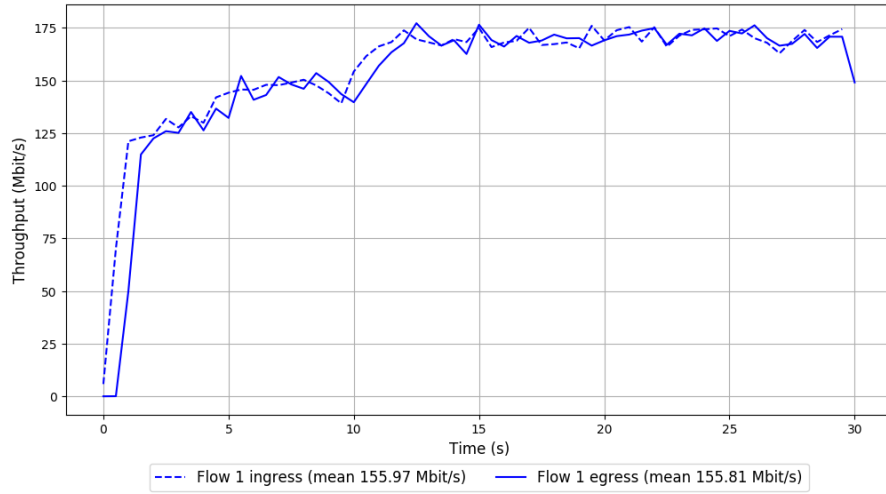

Flow 1 (95th percentile 128.90 ms)

```
Run 3: Statistics of TaoVA-100x

Start at: 2019-03-27 08:20:19
End at: 2019-03-27 08:20:49
Local clock offset: -5.4 ms
Remote clock offset: -32.757 ms


# Below is generated by plot.py at 2019-03-27 10:08:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 155.81 Mbit/s
95th percentile per-packet one-way delay: 129.555 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 155.81 Mbit/s
95th percentile per-packet one-way delay: 129.555 ms
Loss rate: 0.76%
```
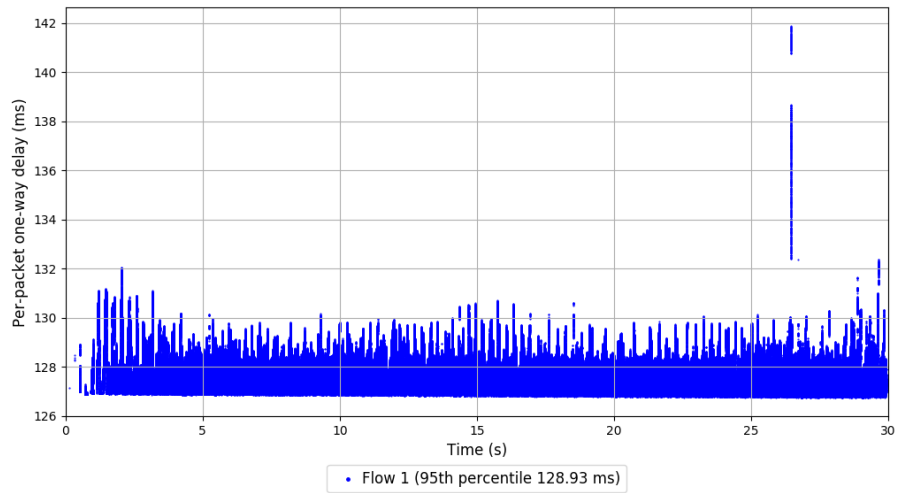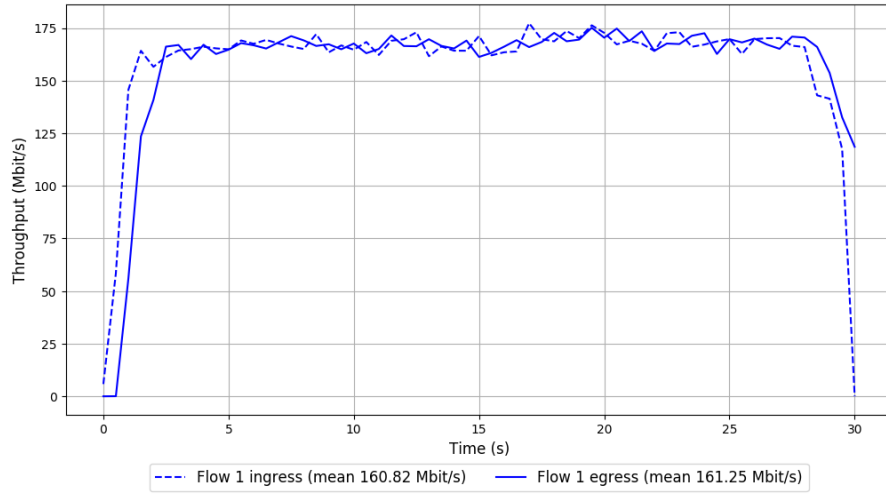
Run 3: Report of TaoVA-100x — Data Link

```
Run 4: Statistics of TaoVA-100x

Start at: 2019-03-27 09:00:02
End at: 2019-03-27 09:00:32
Local clock offset: 2.131 ms
Remote clock offset: -34.992 ms


# Below is generated by plot.py at 2019-03-27 10:09:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 161.25 Mbit/s
95th percentile per-packet one-way delay: 128.933 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 161.25 Mbit/s
95th percentile per-packet one-way delay: 128.933 ms
Loss rate: 0.39%
```

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

```
Run 5: Statistics of TaoVA-100x

Start at: 2019-03-27 09:28:13
End at: 2019-03-27 09:28:43
Local clock offset: 5.085 ms
Remote clock offset: -34.72 ms


# Below is generated by plot.py at 2019-03-27 10:09:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 158.58 Mbit/s
95th percentile per-packet one-way delay: 130.535 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 158.58 Mbit/s
95th percentile per-packet one-way delay: 130.535 ms
Loss rate: 0.68%
```
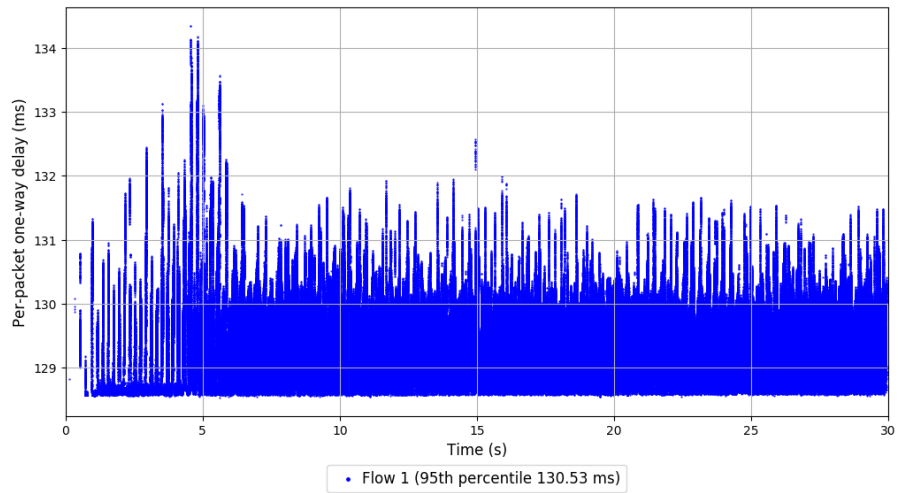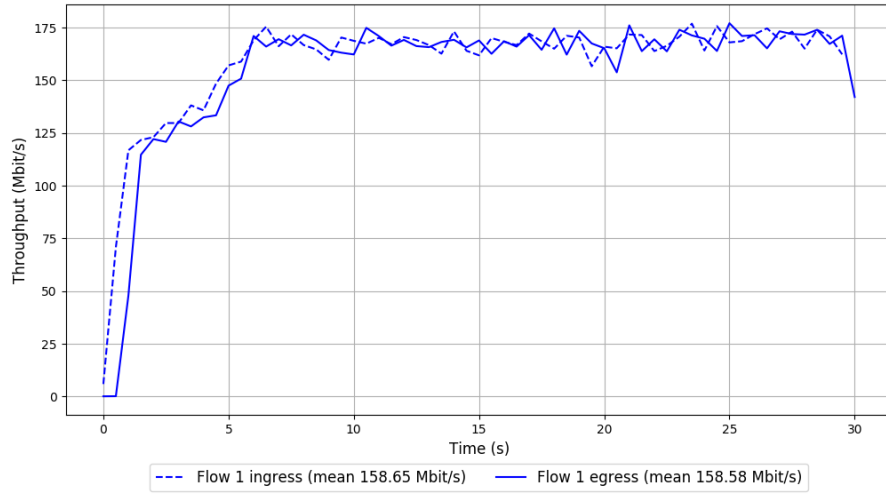
Run 5: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 158.65 Mbit/s)   Flow 1 egress (mean 158.58 Mbit/s)

Flow 1 (95th percentile 130.53 ms)

```
Run 1: Statistics of TCP Vegas

Start at: 2019-03-27 07:05:32
End at: 2019-03-27 07:06:02
Local clock offset: 2.683 ms
Remote clock offset: -39.154 ms


# Below is generated by plot.py at 2019-03-27 10:09:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 290.72 Mbit/s
95th percentile per-packet one-way delay: 137.250 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 290.72 Mbit/s
95th percentile per-packet one-way delay: 137.250 ms
Loss rate: 0.70%
```
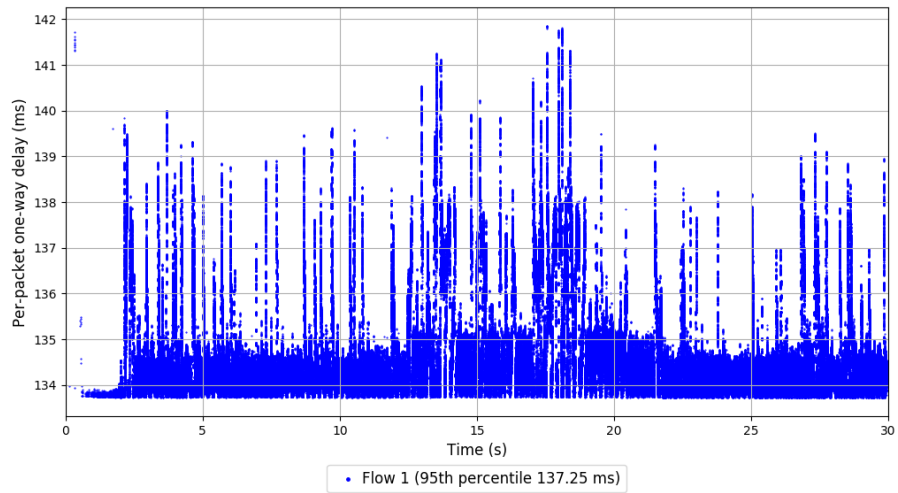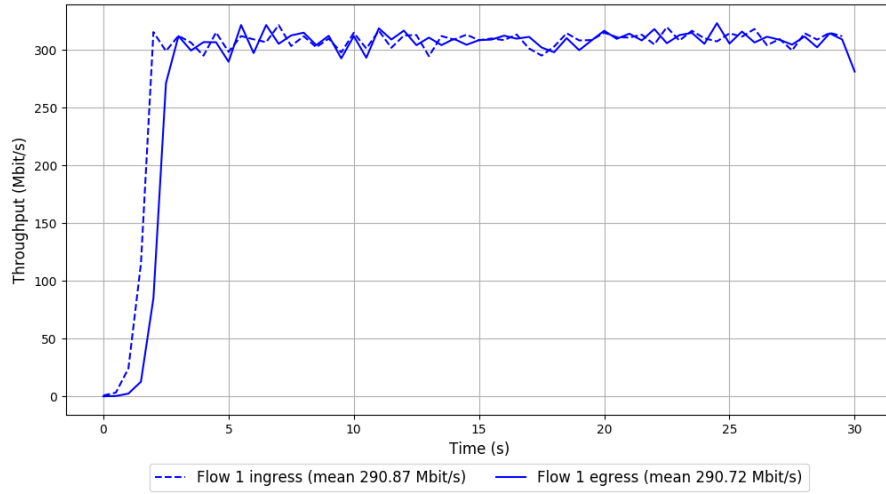
Run 1: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 290.87 Mbit/s)   Flow 1 egress (mean 290.72 Mbit/s)
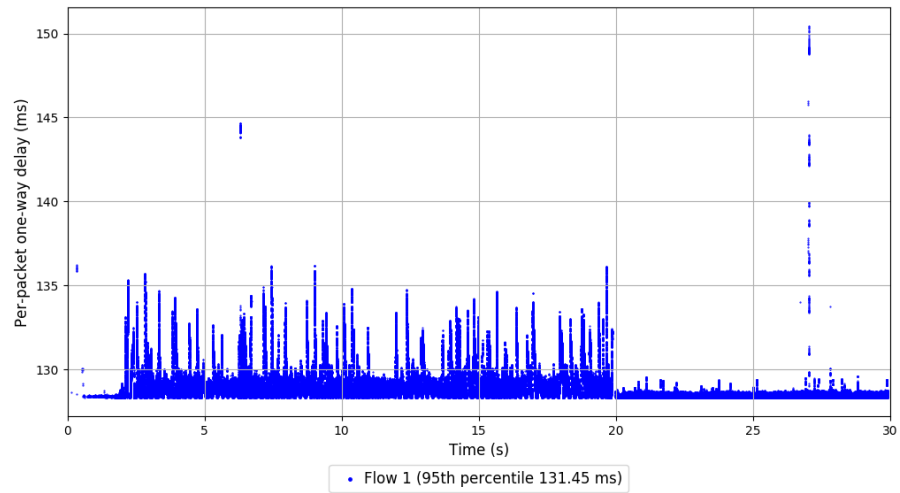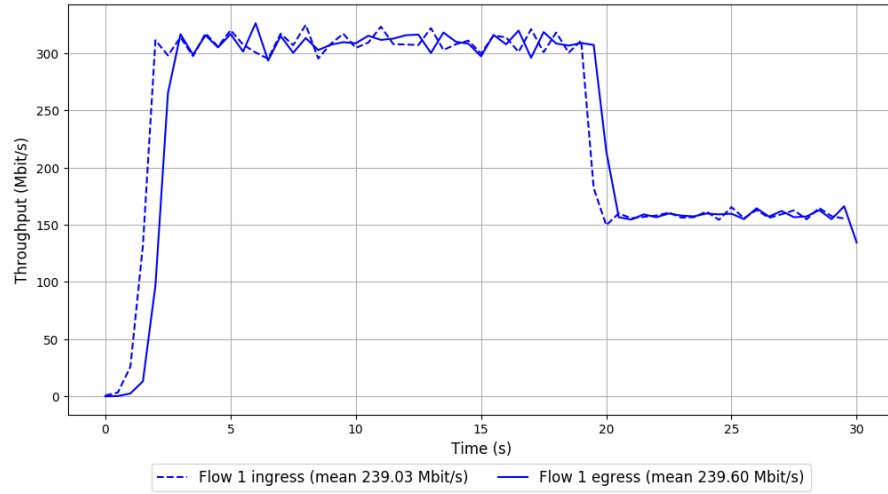

Flow 1 (95th percentile 137.25 ms)

```
Run 2: Statistics of TCP Vegas

Start at: 2019-03-27 07:45:09
End at: 2019-03-27 07:45:39
Local clock offset: 5.792 ms
Remote clock offset: -33.519 ms


# Below is generated by plot.py at 2019-03-27 10:09:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 239.60 Mbit/s
95th percentile per-packet one-way delay: 131.449 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 239.60 Mbit/s
95th percentile per-packet one-way delay: 131.449 ms
Loss rate: 0.41%
```
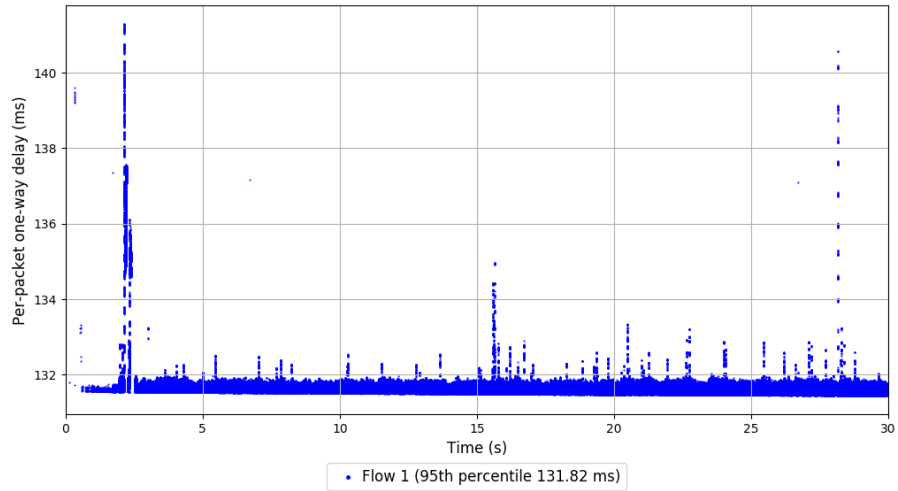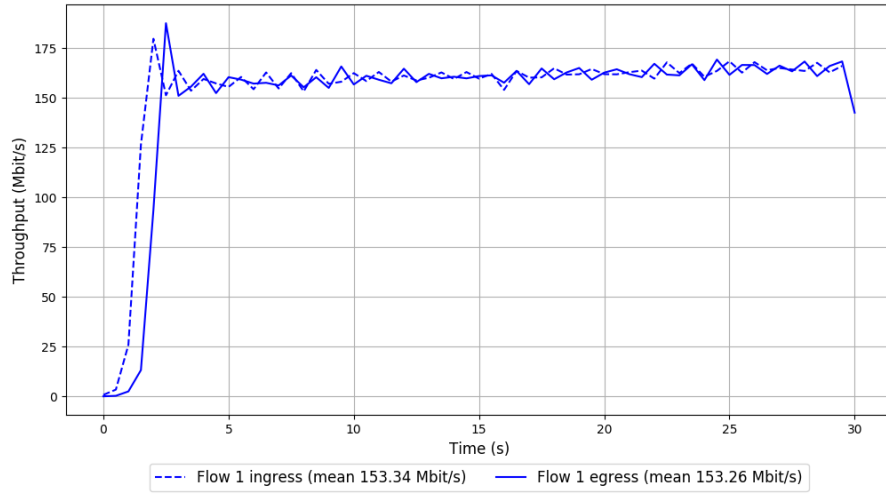
Run 2: Report of TCP Vegas — Data Link

```
Run 3: Statistics of TCP Vegas

Start at: 2019-03-27 08:18:59
End at: 2019-03-27 08:19:29
Local clock offset: -5.64 ms
Remote clock offset: -36.841 ms


# Below is generated by plot.py at 2019-03-27 10:09:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 153.26 Mbit/s
95th percentile per-packet one-way delay: 131.823 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 153.26 Mbit/s
95th percentile per-packet one-way delay: 131.823 ms
Loss rate: 0.70%
```
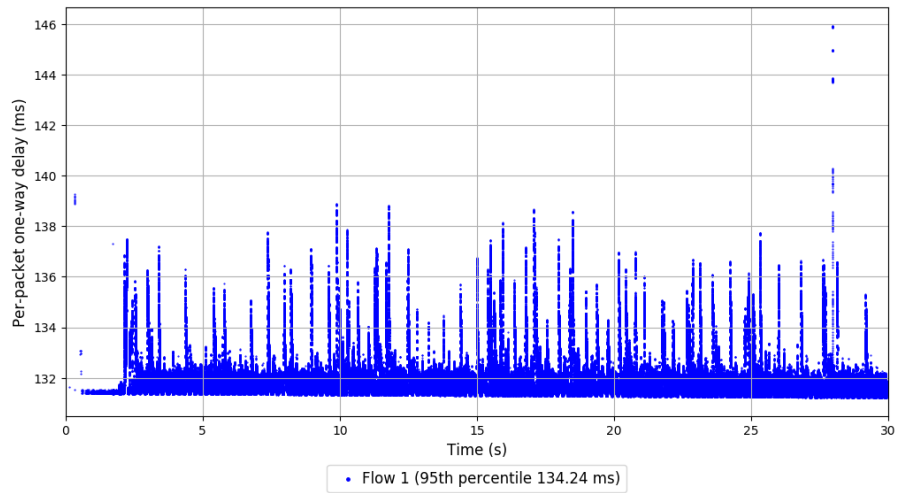
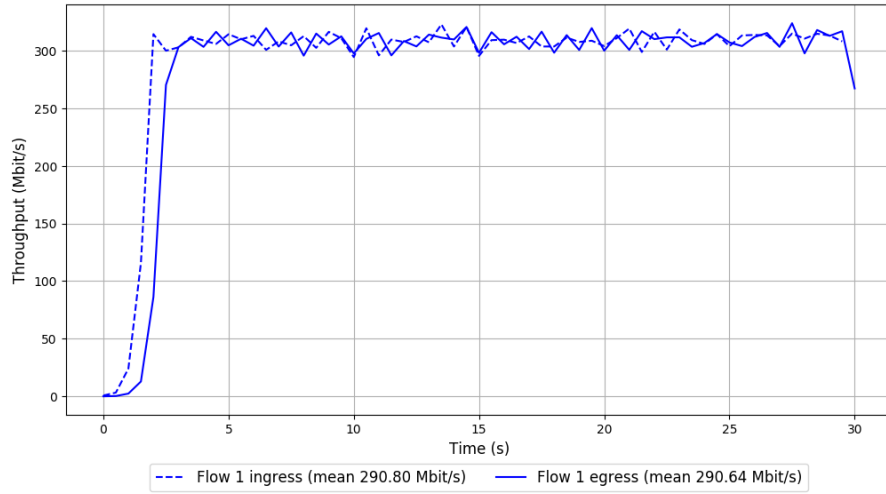Run 3: Report of TCP Vegas — Data Link

```
Run 4: Statistics of TCP Vegas

Start at: 2019-03-27 08:58:38
End at: 2019-03-27 08:59:08
Local clock offset: 1.655 ms
Remote clock offset: -40.107 ms


# Below is generated by plot.py at 2019-03-27 10:11:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 290.64 Mbit/s
95th percentile per-packet one-way delay: 134.236 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 290.64 Mbit/s
95th percentile per-packet one-way delay: 134.236 ms
Loss rate: 0.70%
```

Run 4: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 290.80 Mbit/s)   Flow 1 egress (mean 290.64 Mbit/s)
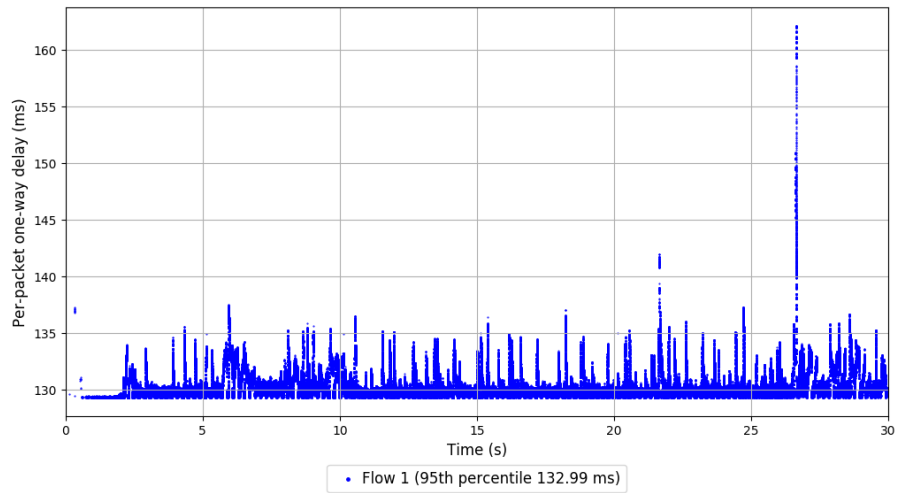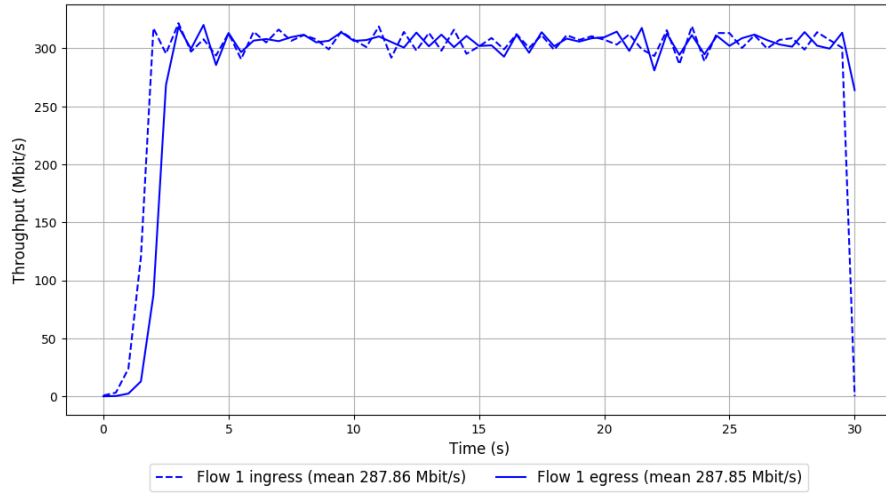

• Flow 1 (95th percentile 134.24 ms)

```
Run 5: Statistics of TCP Vegas

Start at: 2019-03-27 09:26:50
End at: 2019-03-27 09:27:20
Local clock offset: 5.475 ms
Remote clock offset: -35.102 ms


# Below is generated by plot.py at 2019-03-27 10:11:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 287.85 Mbit/s
95th percentile per-packet one-way delay: 132.986 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 287.85 Mbit/s
95th percentile per-packet one-way delay: 132.986 ms
Loss rate: 0.67%
```

Run 5: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 287.86 Mbit/s)   Flow 1 egress (mean 287.85 Mbit/s)
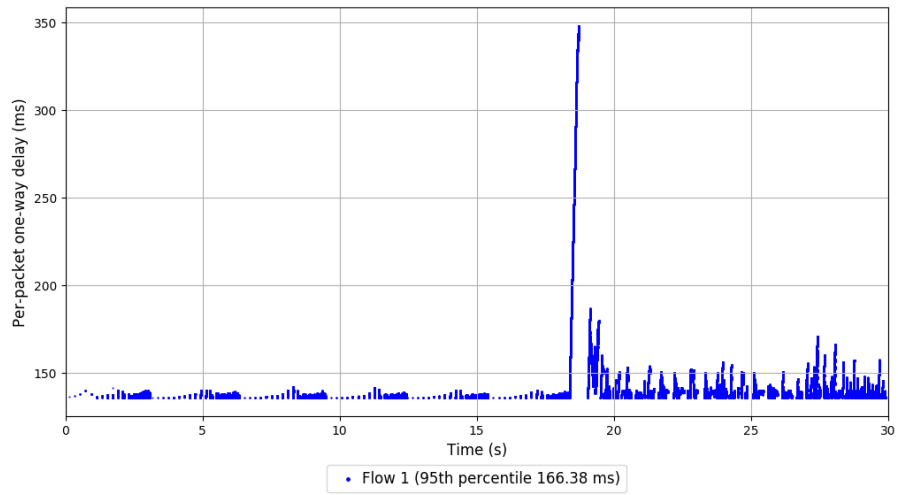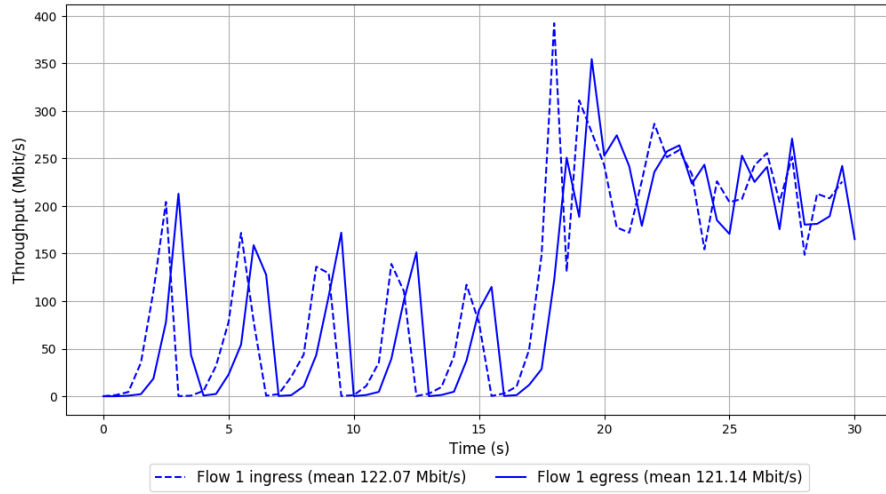

Flow 1 (95th percentile 132.99 ms)

```
Run 1: Statistics of Verus

Start at: 2019-03-27 06:44:01
End at: 2019-03-27 06:44:31
Local clock offset: 2.097 ms
Remote clock offset: -39.67 ms

# Below is generated by plot.py at 2019-03-27 10:11:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 121.14 Mbit/s
95th percentile per-packet one-way delay: 166.380 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 121.14 Mbit/s
95th percentile per-packet one-way delay: 166.380 ms
Loss rate: 1.42%
```
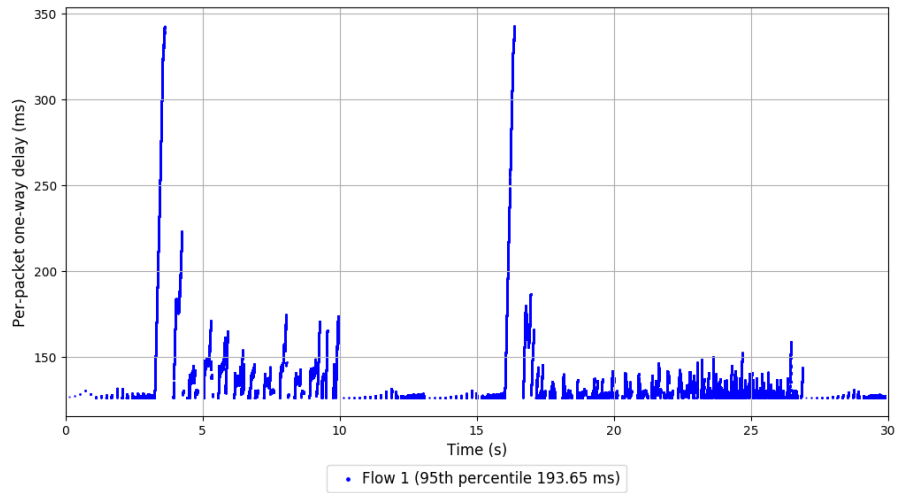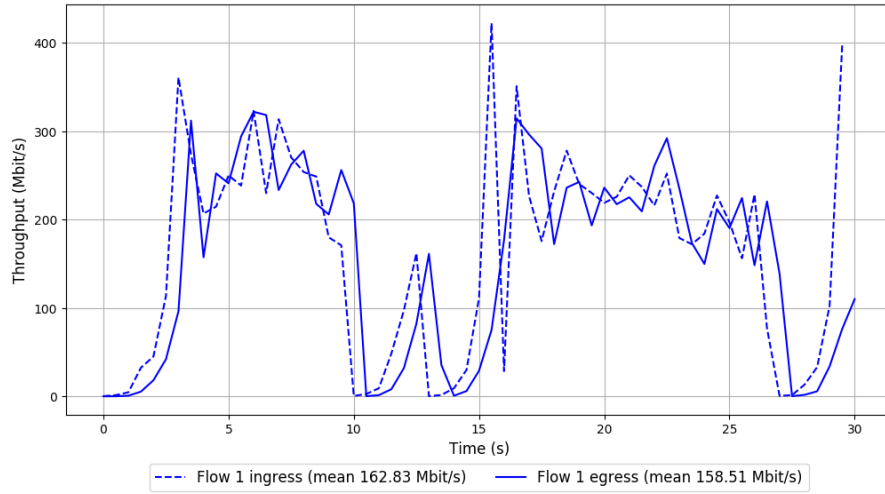
Run 1: Report of Verus — Data Link

```
Run 2: Statistics of Verus

Start at: 2019-03-27 07:29:17
End at: 2019-03-27 07:29:47
Local clock offset: 4.308 ms
Remote clock offset: -32.95 ms


# Below is generated by plot.py at 2019-03-27 10:11:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 158.51 Mbit/s
95th percentile per-packet one-way delay: 193.654 ms
Loss rate: 3.29%
-- Flow 1:
Average throughput: 158.51 Mbit/s
95th percentile per-packet one-way delay: 193.654 ms
Loss rate: 3.29%
```
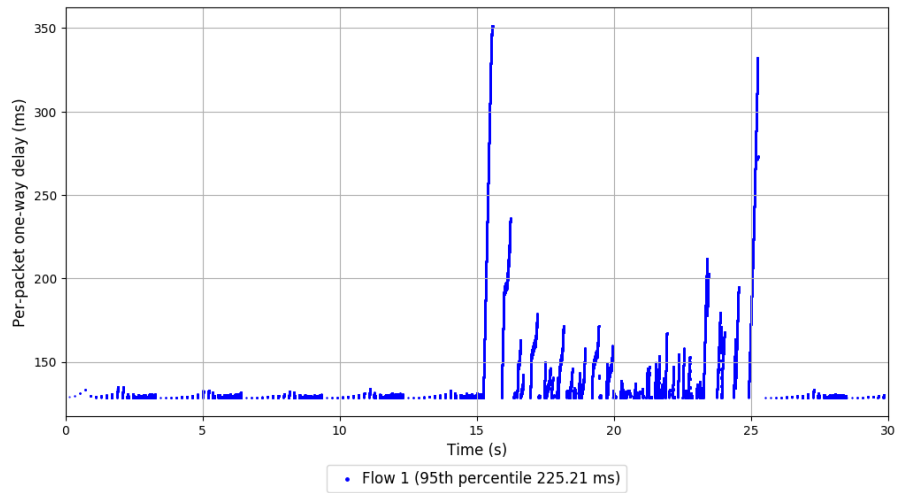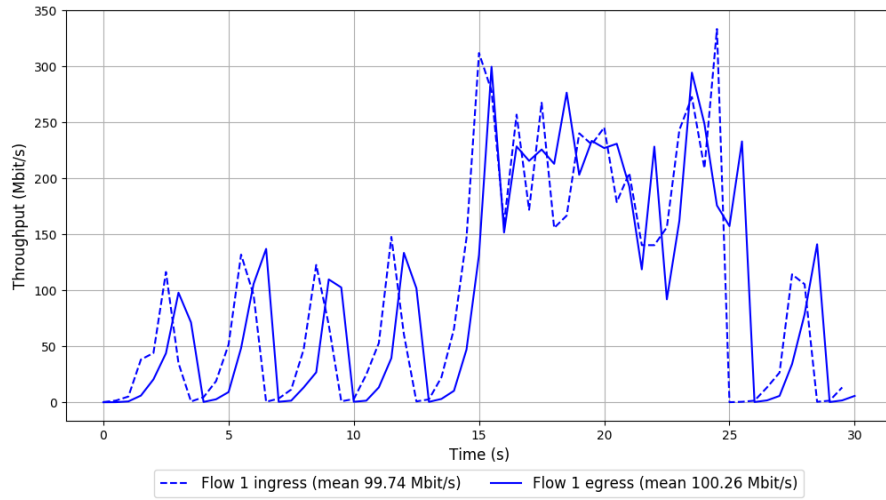
Run 2: Report of Verus — Data Link

```
Run 3: Statistics of Verus

Start at: 2019-03-27 07:57:40
End at: 2019-03-27 07:58:10
Local clock offset: -2.944 ms
Remote clock offset: -32.513 ms


# Below is generated by plot.py at 2019-03-27 10:11:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 100.26 Mbit/s
95th percentile per-packet one-way delay: 225.205 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 100.26 Mbit/s
95th percentile per-packet one-way delay: 225.205 ms
Loss rate: 0.14%
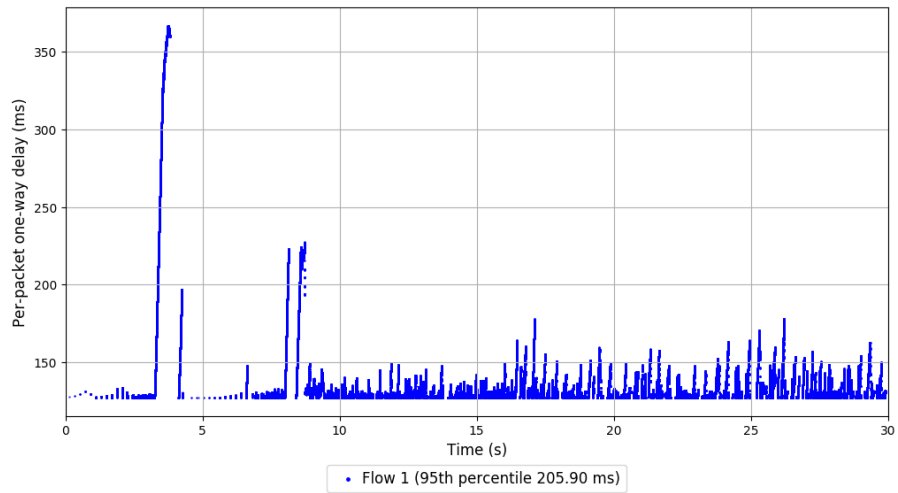```

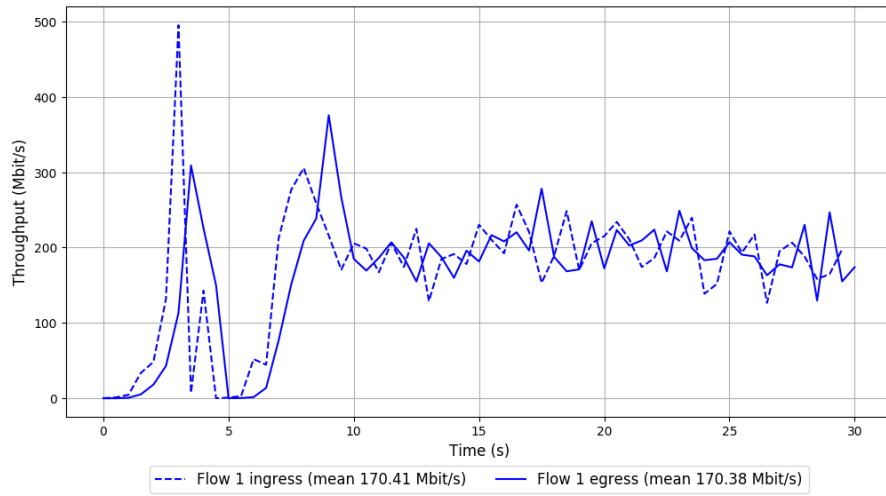## Run 3: Report of Verus — Data Link

```
Run 4: Statistics of Verus

Start at: 2019-03-27 08:42:40
End at: 2019-03-27 08:43:10
Local clock offset: -2.949 ms
Remote clock offset: -33.488 ms

Below is generated by plot.py at 2019-03-27 10:11:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 170.38 Mbit/s
95th percentile per-packet one-way delay: 205.902 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 170.38 Mbit/s
95th percentile per-packet one-way delay: 205.902 ms
Loss rate: 0.40%
```
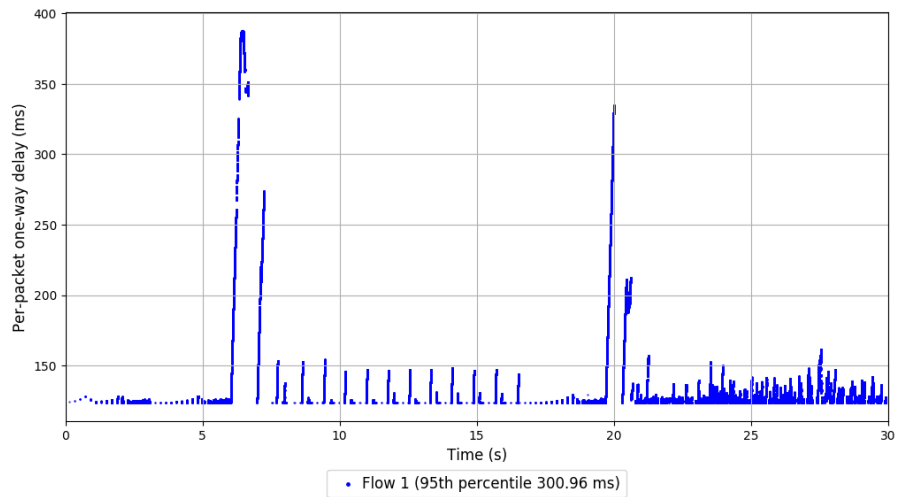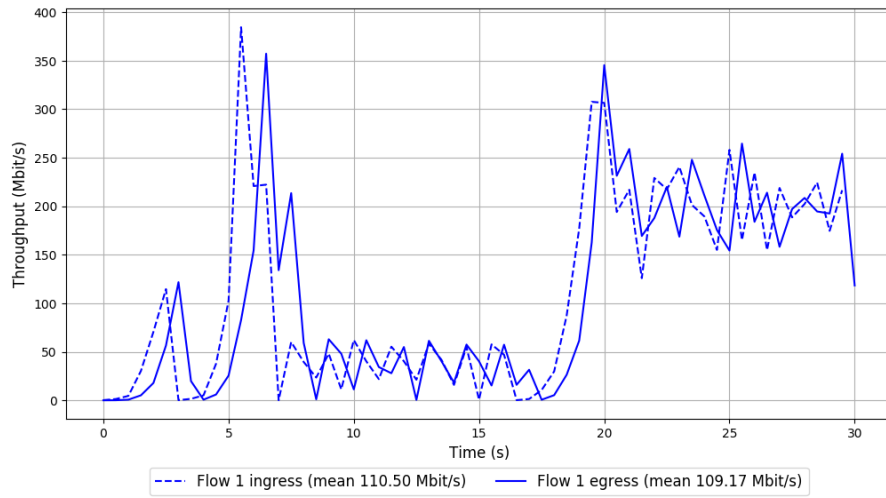
Run 4: Report of Verus — Data Link

```
Run 5: Statistics of Verus

Start at: 2019-03-27 09:11:06
End at: 2019-03-27 09:11:36
Local clock offset: 6.254 ms
Remote clock offset: -31.739 ms


# Below is generated by plot.py at 2019-03-27 10:11:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 109.17 Mbit/s
95th percentile per-packet one-way delay: 300.957 ms
Loss rate: 1.75%
-- Flow 1:
Average throughput: 109.17 Mbit/s
95th percentile per-packet one-way delay: 300.957 ms
Loss rate: 1.75%
```

Run 5: Report of Verus — Data Link

Flow 1 ingress (mean 110.50 Mbit/s)   Flow 1 egress (mean 109.17 Mbit/s)

Flow 1 (95th percentile 300.96 ms)

```
Run 1: Statistics of PCC-Vivace

Start at: 2019-03-27 06:48:13
End at: 2019-03-27 06:48:43
Local clock offset: 0.429 ms
Remote clock offset: -34.837 ms


# Below is generated by plot.py at 2019-03-27 10:11:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 212.93 Mbit/s
95th percentile per-packet one-way delay: 131.580 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 212.93 Mbit/s
95th percentile per-packet one-way delay: 131.580 ms
Loss rate: 0.83%
```
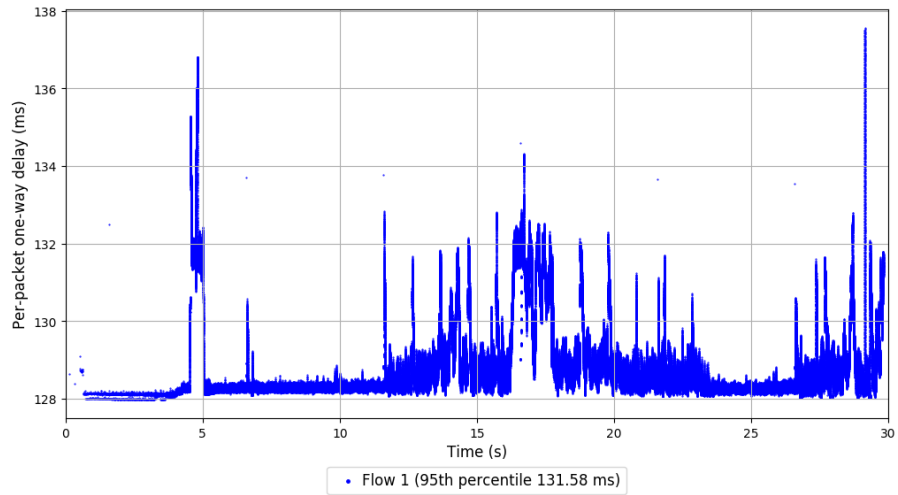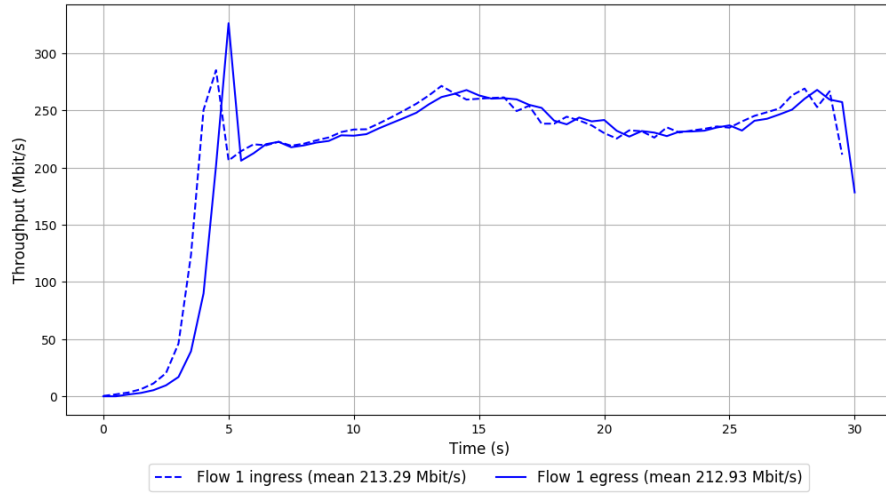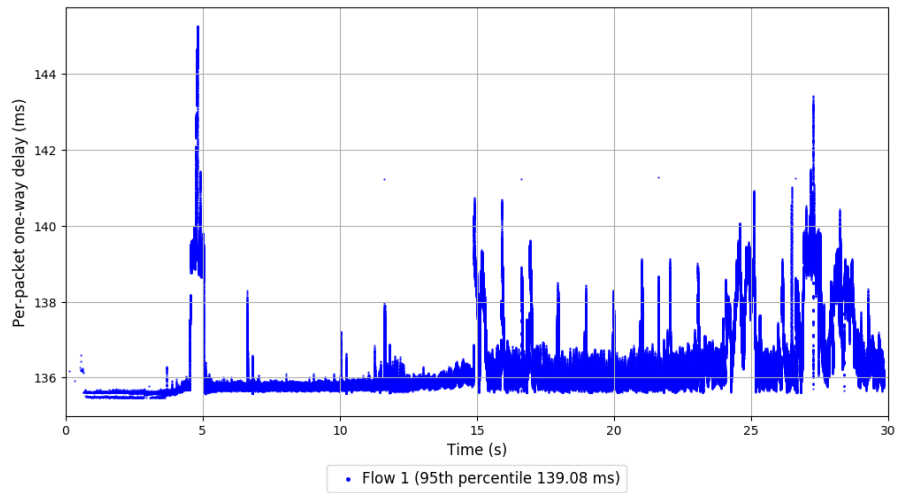
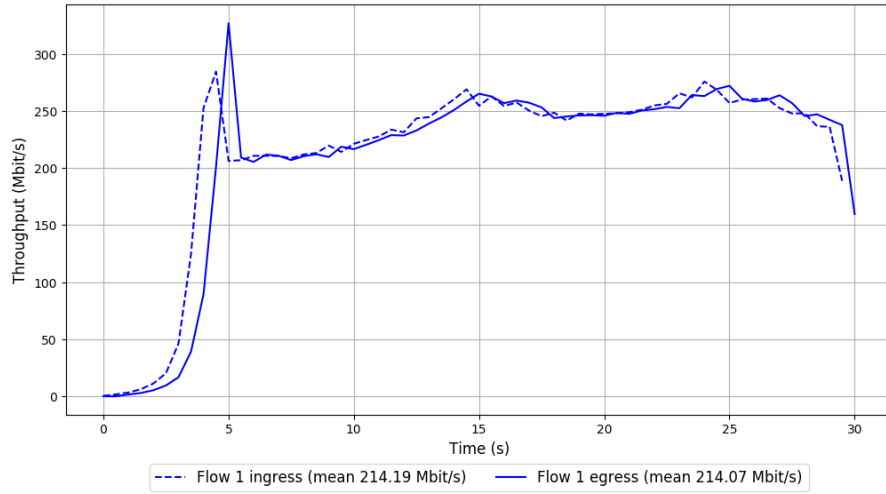# Run 1: Report of PCC-Vivace — Data Link

```
Run 2: Statistics of PCC-Vivace

Start at: 2019-03-27 07:33:31
End at: 2019-03-27 07:34:01
Local clock offset: 6.874 ms
Remote clock offset: -38.404 ms


# Below is generated by plot.py at 2019-03-27 10:12:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 214.07 Mbit/s
95th percentile per-packet one-way delay: 139.083 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 214.07 Mbit/s
95th percentile per-packet one-way delay: 139.083 ms
Loss rate: 0.71%
```

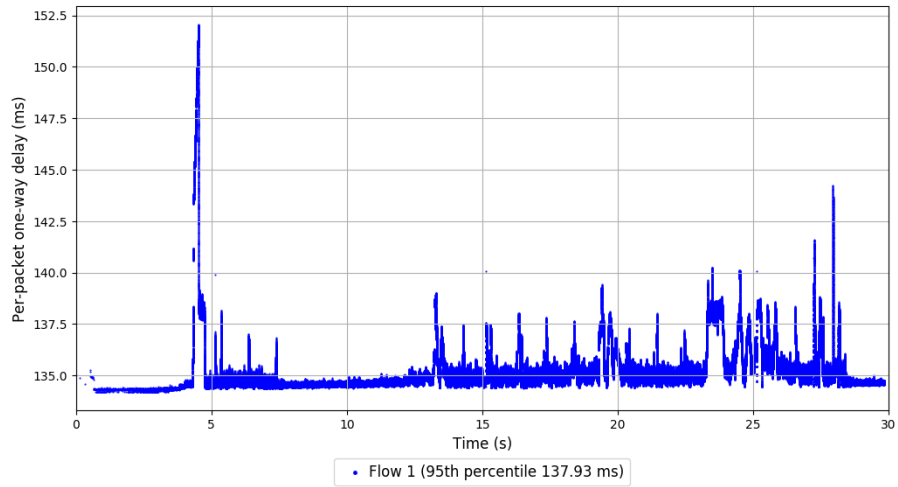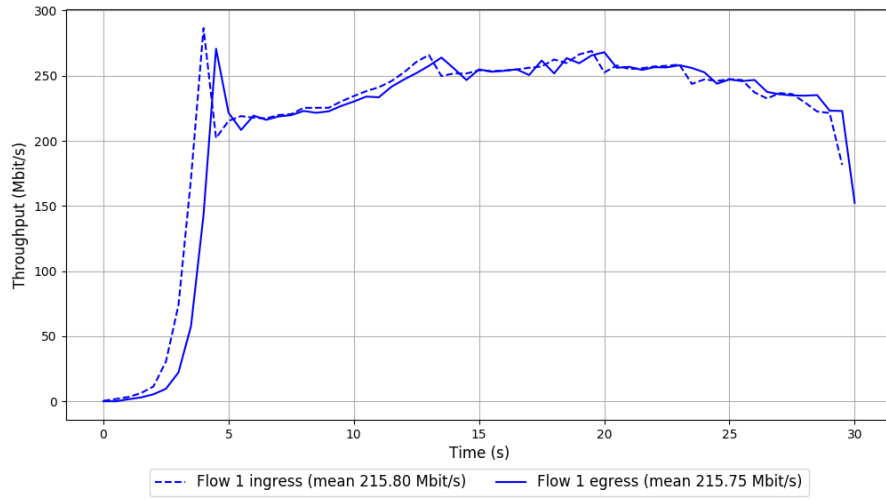Run 2: Report of PCC-Vivace — Data Link

```
Run 3: Statistics of PCC-Vivace

Start at: 2019-03-27 08:01:49
End at: 2019-03-27 08:02:19
Local clock offset: -3.601 ms
Remote clock offset: -37.606 ms


# Below is generated by plot.py at 2019-03-27 10:12:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 215.75 Mbit/s
95th percentile per-packet one-way delay: 137.927 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 215.75 Mbit/s
95th percentile per-packet one-way delay: 137.927 ms
Loss rate: 0.68%
```

Run 3: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 215.80 Mbit/s) — Flow 1 egress (mean 215.75 Mbit/s)
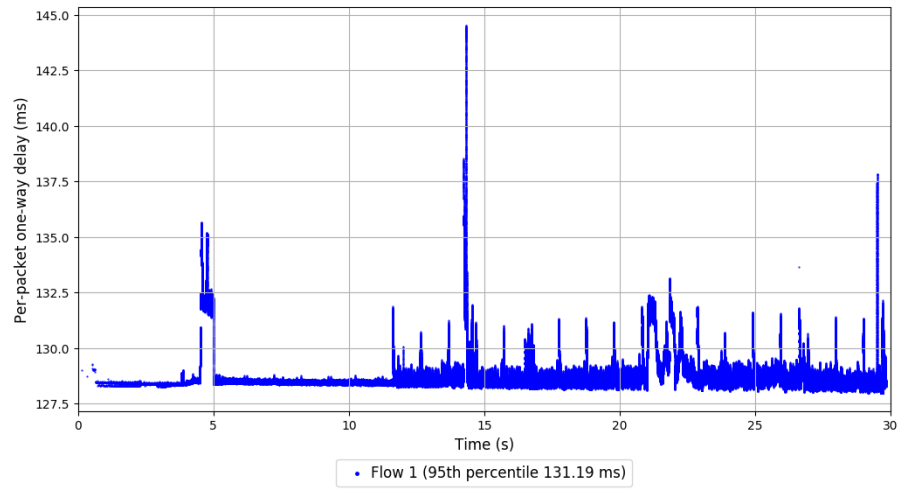

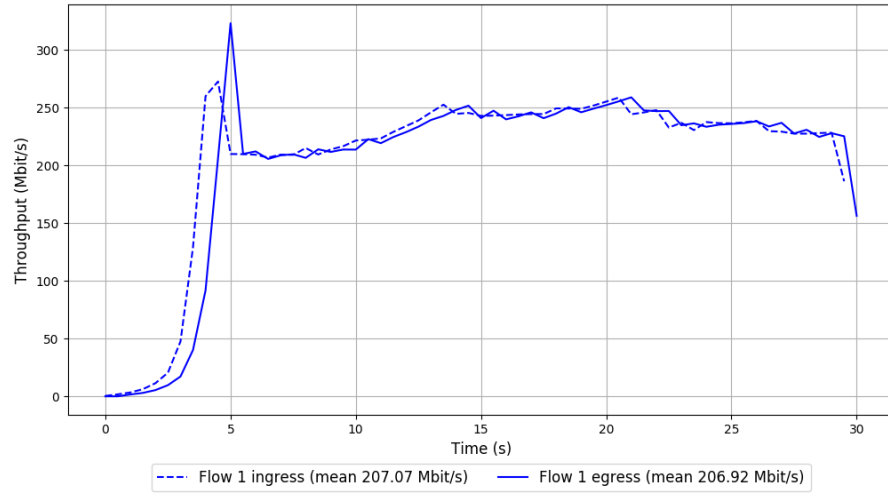
• Flow 1 (95th percentile 137.93 ms)

```
Run 4: Statistics of PCC-Vivace

Start at: 2019-03-27 08:46:59
End at: 2019-03-27 08:47:29
Local clock offset: -5.818 ms
Remote clock offset: -38.932 ms


# Below is generated by plot.py at 2019-03-27 10:12:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 206.92 Mbit/s
95th percentile per-packet one-way delay: 131.188 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 206.92 Mbit/s
95th percentile per-packet one-way delay: 131.188 ms
Loss rate: 0.74%
```

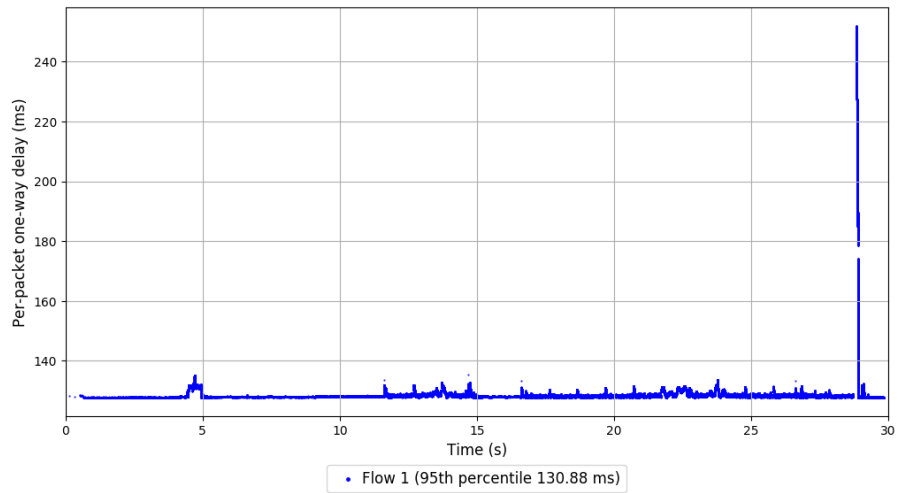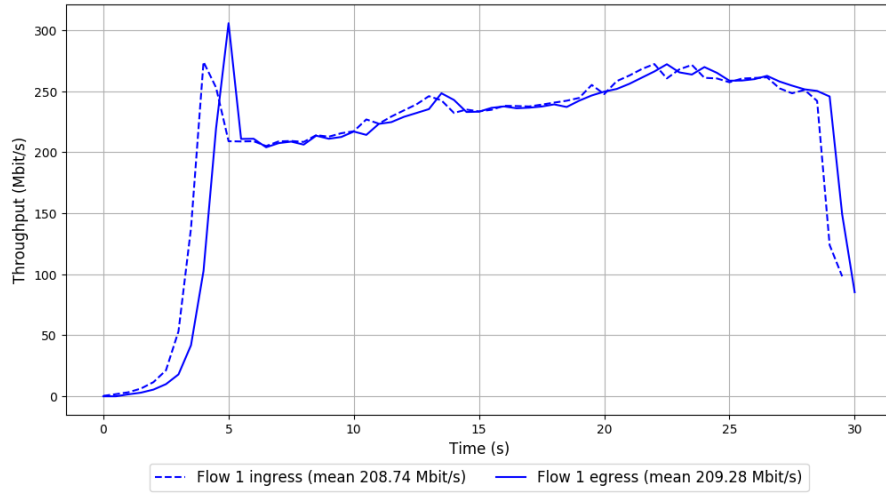Run 4: Report of PCC-Vivace — Data Link

```
Run 5: Statistics of PCC-Vivace

Start at: 2019-03-27 09:15:15
End at: 2019-03-27 09:15:45
Local clock offset: 6.3 ms
Remote clock offset: -36.325 ms


# Below is generated by plot.py at 2019-03-27 10:12:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 209.28 Mbit/s
95th percentile per-packet one-way delay: 130.881 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 209.28 Mbit/s
95th percentile per-packet one-way delay: 130.881 ms
Loss rate: 0.39%
```

Run 5: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 208.74 Mbit/s)   Flow 1 egress (mean 209.28 Mbit/s)
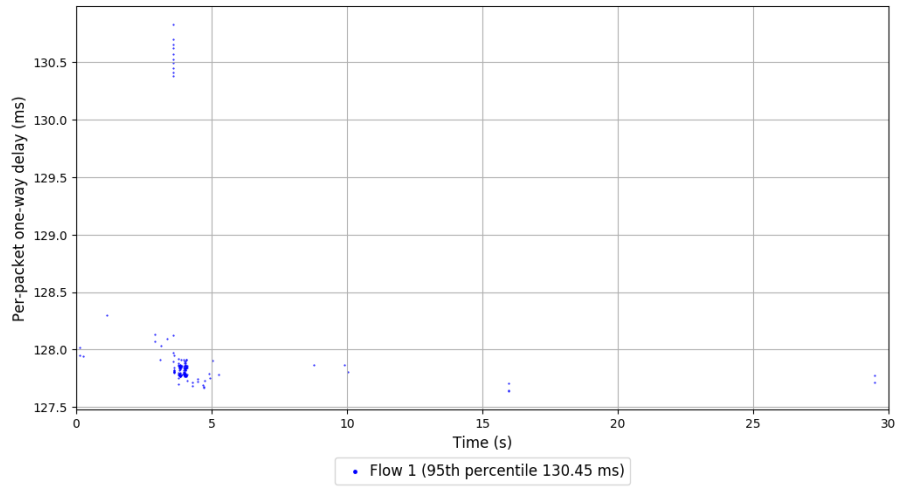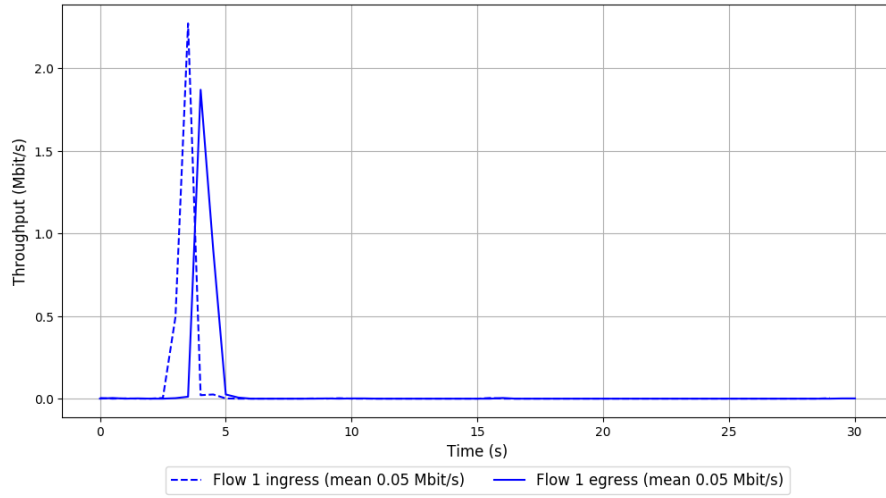

Flow 1 (95th percentile 130.88 ms)

```
Run 1: Statistics of WebRTC media

Start at: 2019-03-27 07:00:25
End at: 2019-03-27 07:00:55
Local clock offset: 1.757 ms
Remote clock offset: -34.533 ms


# Below is generated by plot.py at 2019-03-27 10:12:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 130.449 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 130.449 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

```
Run 2: Statistics of WebRTC media

Start at: 2019-03-27 07:40:01
End at: 2019-03-27 07:40:31
Local clock offset: 2.813 ms
Remote clock offset: -33.516 ms


# Below is generated by plot.py at 2019-03-27 10:12:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 127.852 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 127.852 ms
Loss rate: 0.00%
```
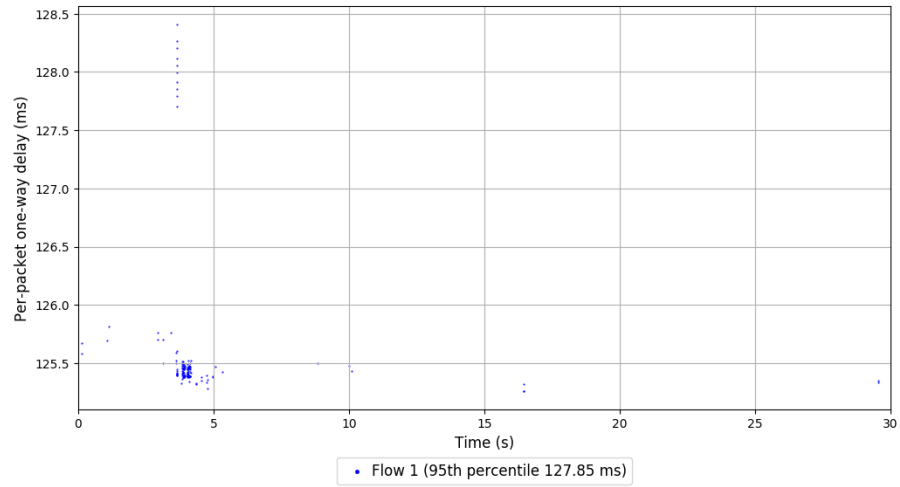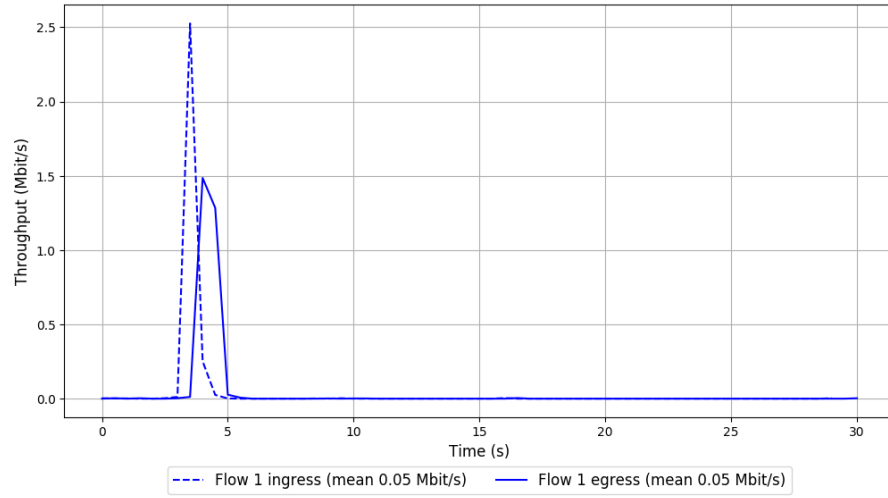
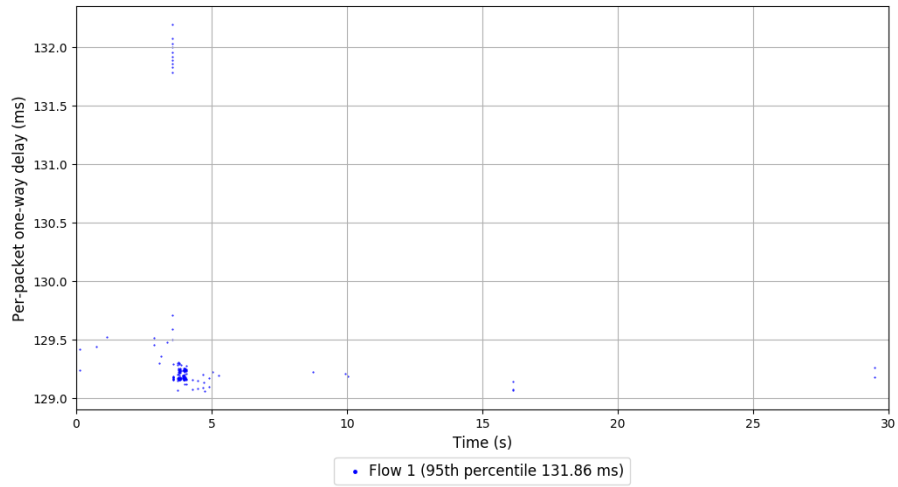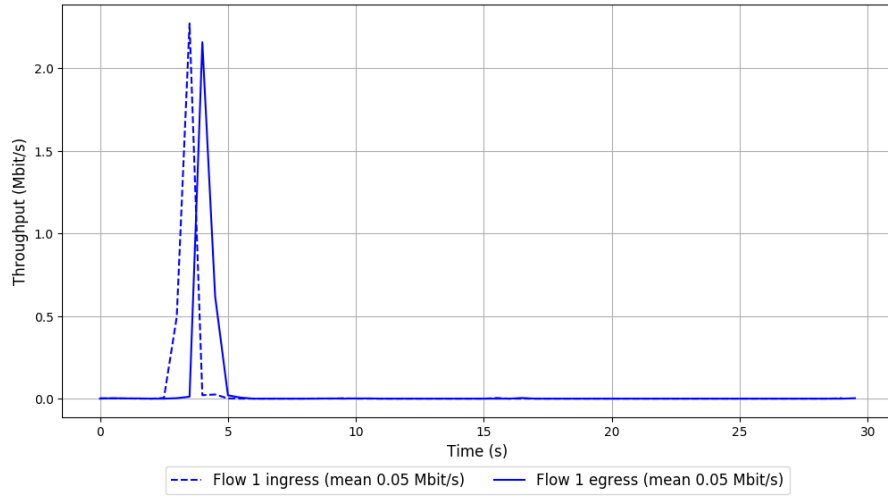Run 2: Report of WebRTC media — Data Link

```
Run 3: Statistics of WebRTC media

Start at: 2019-03-27 08:08:19
End at: 2019-03-27 08:08:49
Local clock offset: -5.084 ms
Remote clock offset: -32.851 ms


# Below is generated by plot.py at 2019-03-27 10:12:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 131.858 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 131.858 ms
Loss rate: 0.00%
```

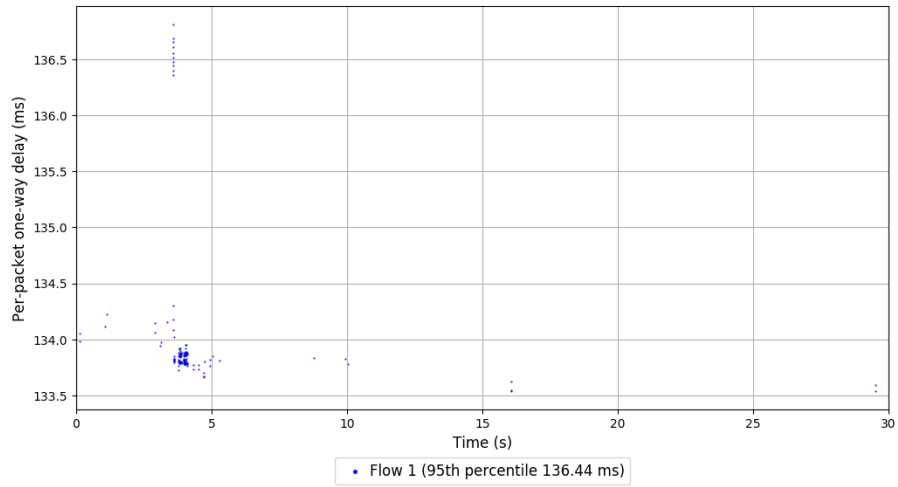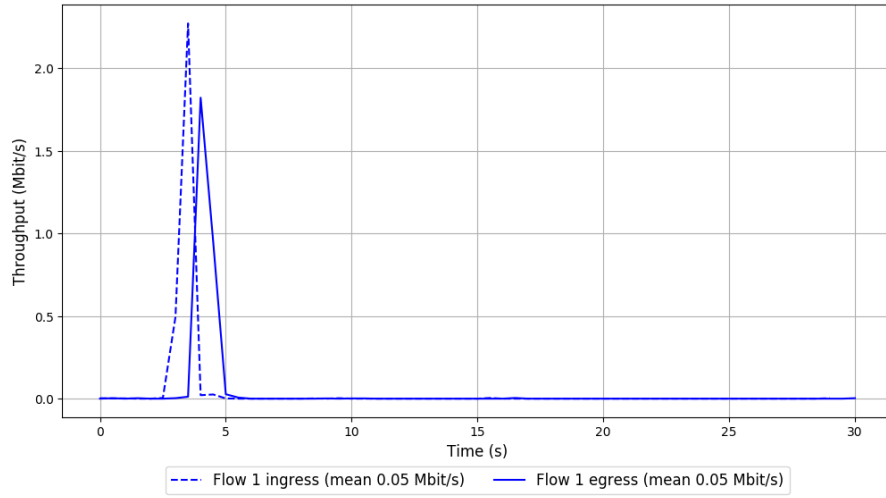Run 3: Report of WebRTC media — Data Link

```
Run 4: Statistics of WebRTC media

Start at: 2019-03-27 08:53:27
End at: 2019-03-27 08:53:57
Local clock offset: 1.577 ms
Remote clock offset: -40.352 ms


# Below is generated by plot.py at 2019-03-27 10:12:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 136.442 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 136.442 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link

```
Run 5: Statistics of WebRTC media

Start at: 2019-03-27 09:21:43
End at: 2019-03-27 09:22:13
Local clock offset: 5.26 ms
Remote clock offset: -33.346 ms


# Below is generated by plot.py at 2019-03-27 10:12:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 129.409 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 129.409 ms
Loss rate: 0.05%
```

Run 5: Report of WebRTC media — Data Link