Pantheon Report

Generated at 2019-03-27 20:38:10 (UTC).

Data path: GCE Tokyo on `ens4` (*remote*) →GCE Sydney on `ens4` (*local*).

Repeated the test of 21 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

NTP offsets were measured against `time.google.com` and have been applied to correct the timestamps in logs.
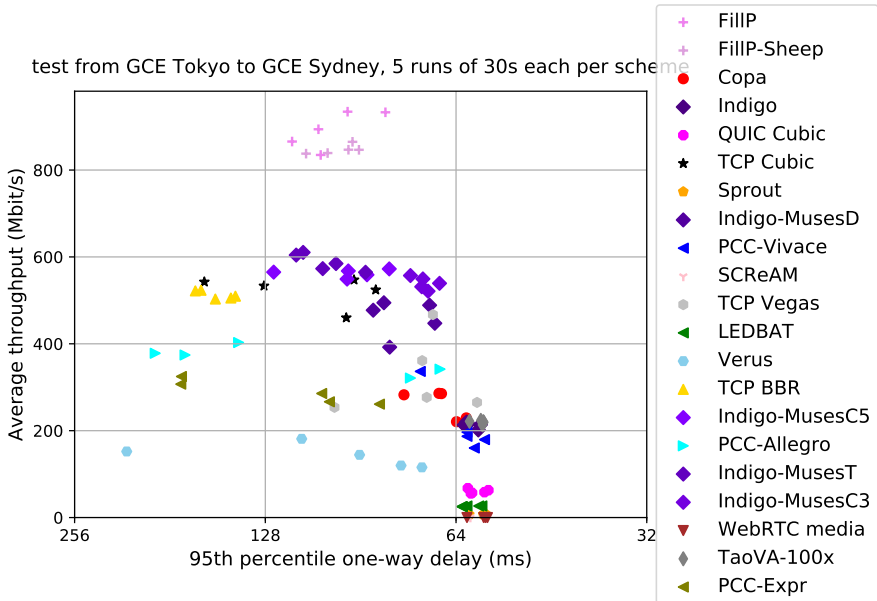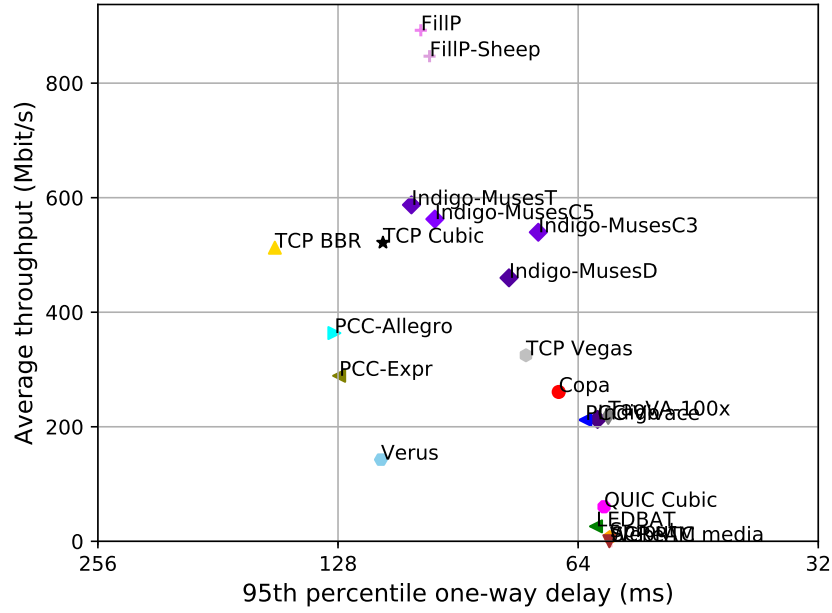
```
System info:
Linux 4.15.0-1028-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912

Git summary:
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ 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 GCE Tokyo to GCE Sydney, 5 runs of 30s each per scheme (mean of all runs by scheme)

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

3

scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	512.67	153.60	0.93
Copa	5	260.77	67.69	0.33
TCP Cubic	5	521.47	112.43	0.34
FillP	5	892.30	100.79	0.70
FillP-Sheep	5	847.05	98.28	0.55
Indigo	5	212.83	60.52	0.41
Indigo-MusesC3	5	539.63	71.81	0.43
Indigo-MusesC5	5	562.60	96.79	0.44
Indigo-MusesD	5	460.02	78.14	0.47
Indigo-MusesT	5	587.44	103.56	0.46
LEDBAT	5	26.09	60.79	0.73
PCC-Allegro	5	363.61	129.35	1.11
PCC-Expr	5	289.02	127.59	3.94
QUIC Cubic	5	60.31	59.39	0.65
SCReAM	5	0.22	58.20	0.39
Sprout	5	7.44	58.41	0.45
TaoVA-100x	5	219.73	58.67	0.40
TCP Vegas	5	324.81	74.41	0.33
Verus	5	142.63	113.09	1.25
PCC-Vivace	5	211.96	62.71	0.64
WebRTC media	4	0.05	58.49	0.00

4

```
Run 1: Statistics of TCP BBR

Start at: 2019-03-27 16:08:22
End at: 2019-03-27 16:08:52
Local clock offset: -0.198 ms
Remote clock offset: -0.156 ms


# Below is generated by plot.py at 2019-03-27 18:59:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 503.09 Mbit/s
95th percentile per-packet one-way delay: 153.488 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 503.09 Mbit/s
95th percentile per-packet one-way delay: 153.488 ms
Loss rate: 0.71%
```
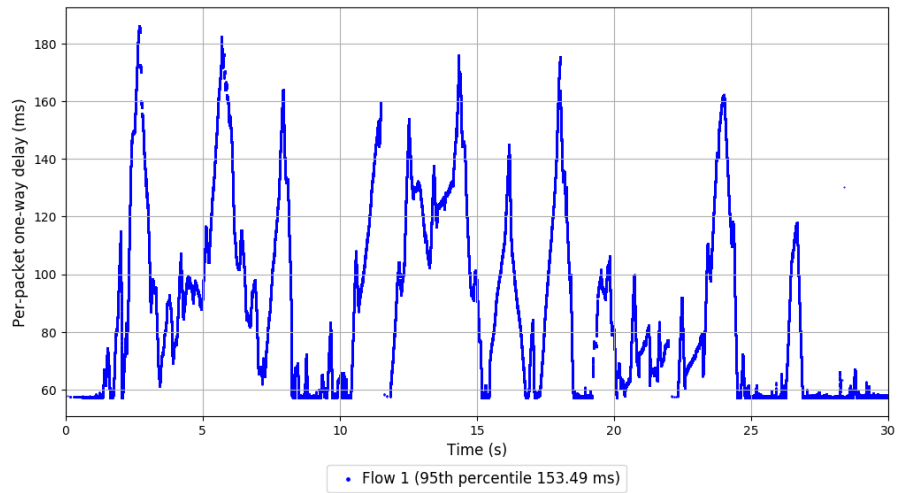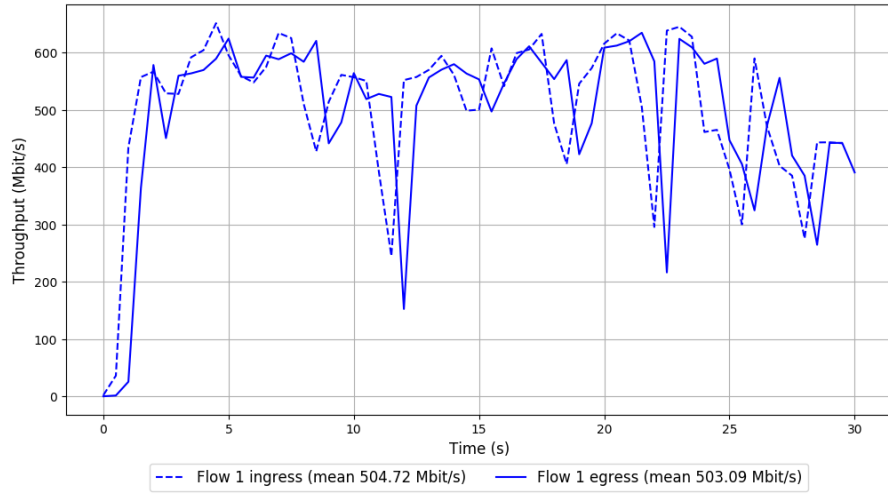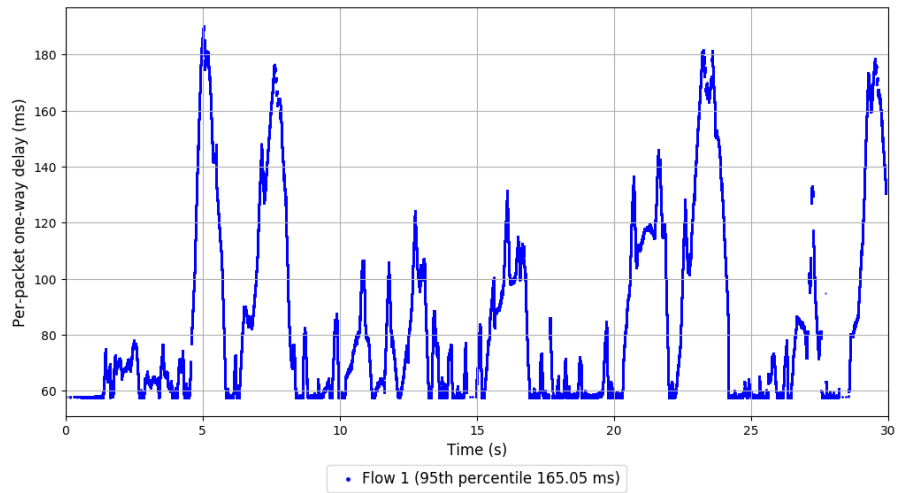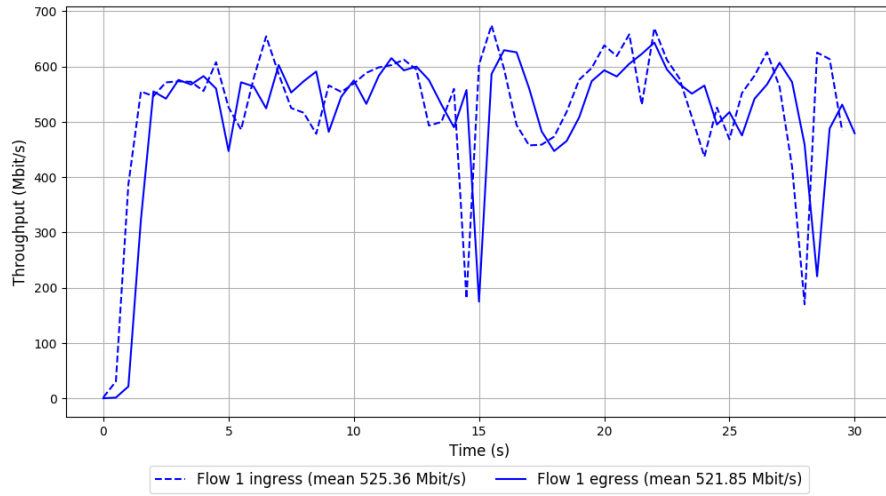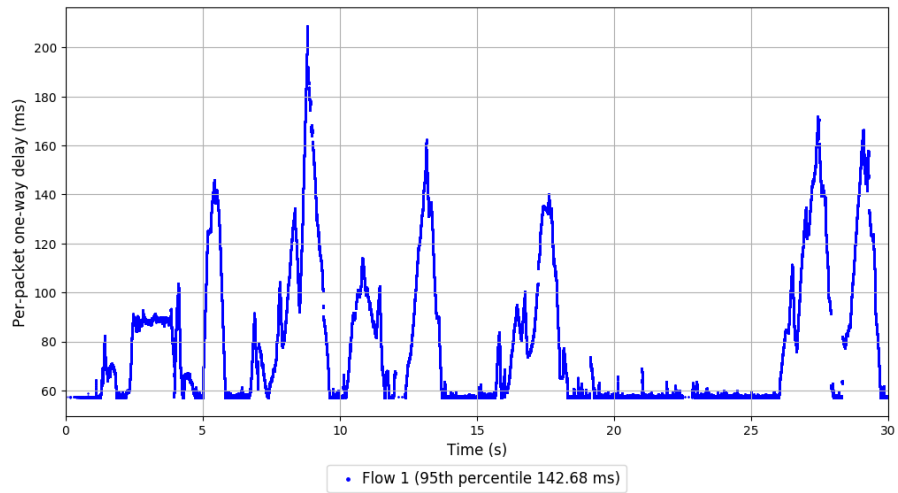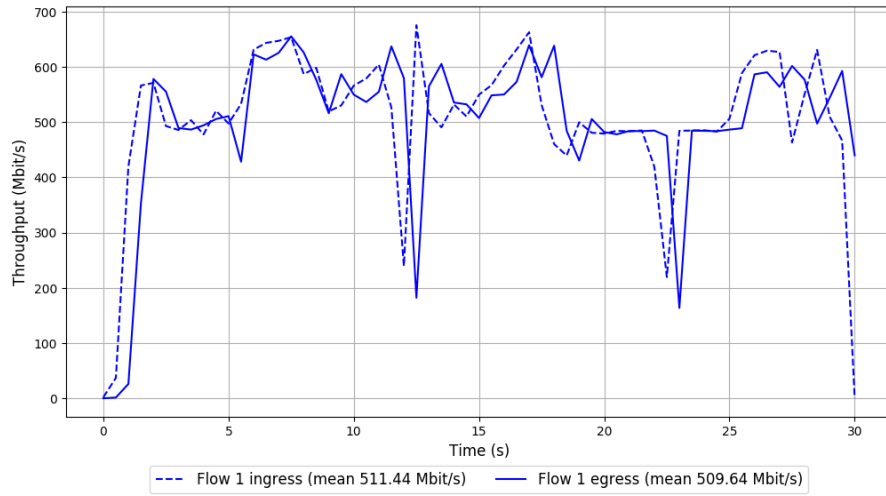
Run 1: Report of TCP BBR — Data Link

Flow 1 ingress (mean 504.72 Mbit/s)   Flow 1 egress (mean 503.09 Mbit/s)

• Flow 1 (95th percentile 153.49 ms)

```
Run 2: Statistics of TCP BBR

Start at: 2019-03-27 16:40:09
End at: 2019-03-27 16:40:39
Local clock offset: 0.042 ms
Remote clock offset: -0.045 ms


# Below is generated by plot.py at 2019-03-27 19:00:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 521.85 Mbit/s
95th percentile per-packet one-way delay: 165.054 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 521.85 Mbit/s
95th percentile per-packet one-way delay: 165.054 ms
Loss rate: 1.05%
```
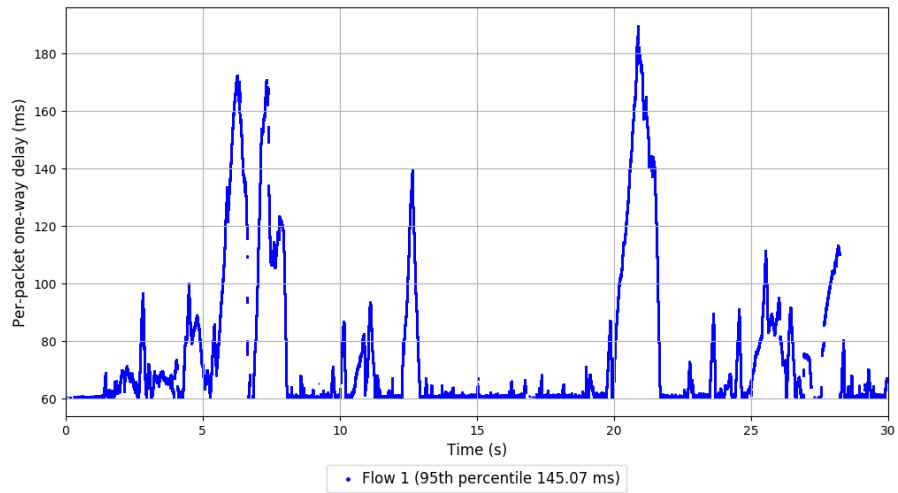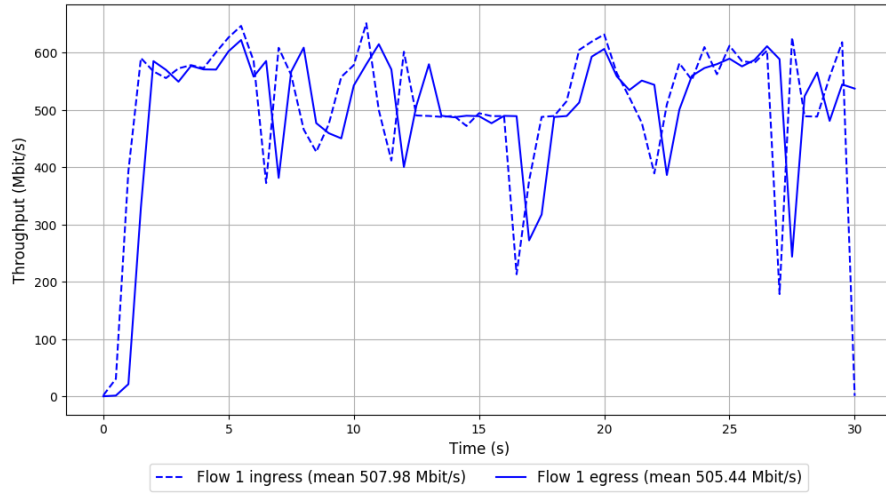
Run 2: Report of TCP BBR — Data Link

```
Run 3: Statistics of TCP BBR

Start at: 2019-03-27 17:12:33
End at: 2019-03-27 17:13:04
Local clock offset: 0.244 ms
Remote clock offset: 0.315 ms


# Below is generated by plot.py at 2019-03-27 19:00:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 509.64 Mbit/s
95th percentile per-packet one-way delay: 142.683 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 509.64 Mbit/s
95th percentile per-packet one-way delay: 142.683 ms
Loss rate: 0.73%
```
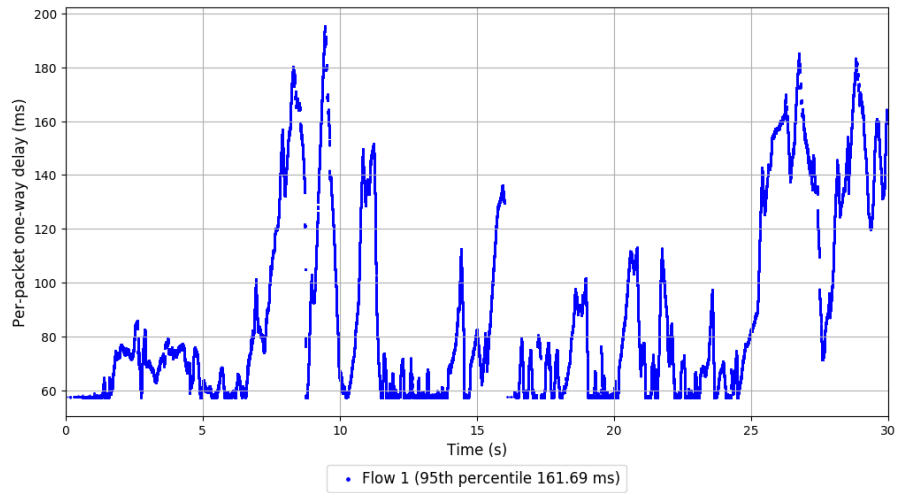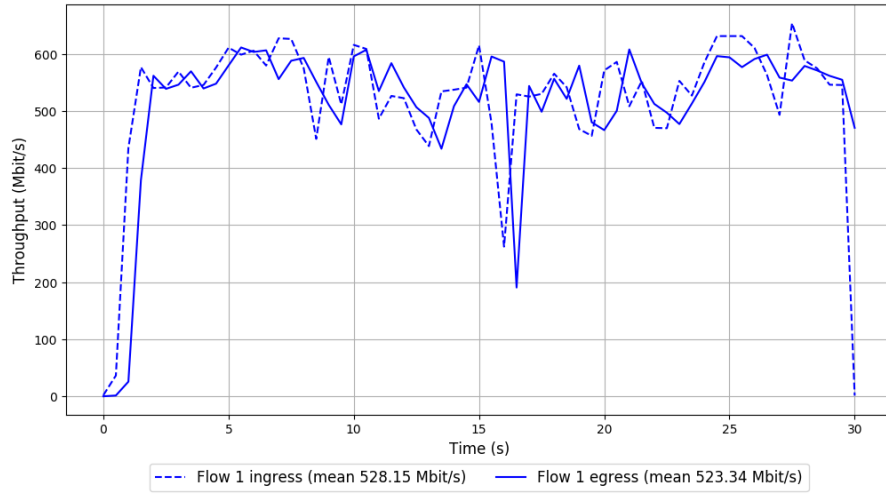
Run 3: Report of TCP BBR — Data Link

```
Run 4: Statistics of TCP BBR

Start at: 2019-03-27 17:43:04
End at: 2019-03-27 17:43:34
Local clock offset: -0.08 ms
Remote clock offset: 0.553 ms


# Below is generated by plot.py at 2019-03-27 19:00:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 505.44 Mbit/s
95th percentile per-packet one-way delay: 145.069 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 505.44 Mbit/s
95th percentile per-packet one-way delay: 145.069 ms
Loss rate: 0.89%
```
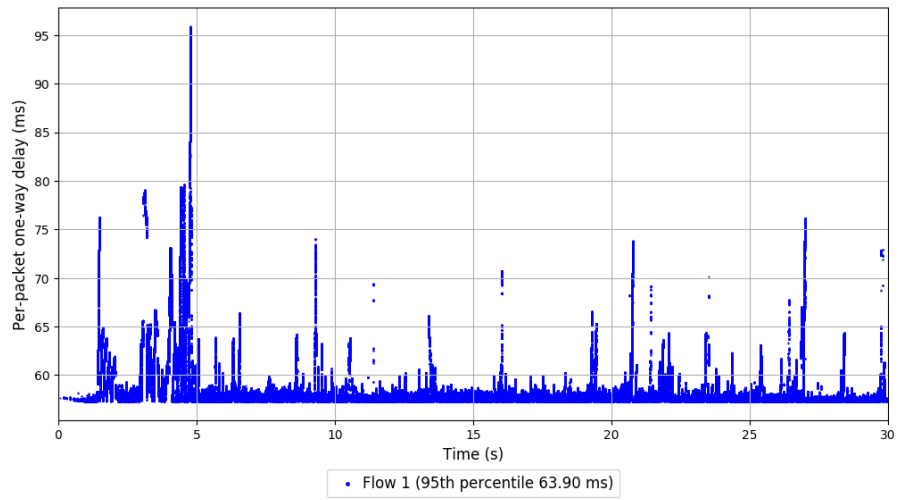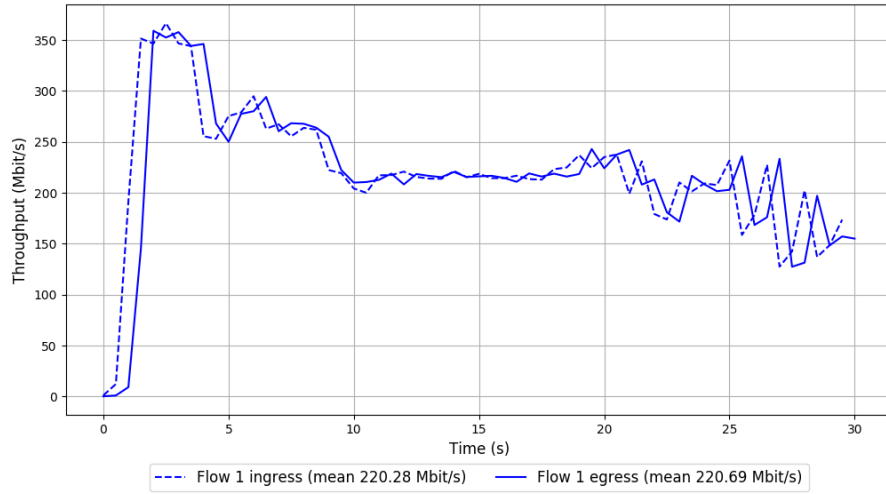
Run 4: Report of TCP BBR — Data Link

Flow 1 ingress (mean 507.98 Mbit/s)   Flow 1 egress (mean 505.44 Mbit/s)

• Flow 1 (95th percentile 145.07 ms)

```
Run 5: Statistics of TCP BBR

Start at: 2019-03-27 18:13:51
End at: 2019-03-27 18:14:21
Local clock offset: -0.005 ms
Remote clock offset: 0.12 ms


# Below is generated by plot.py at 2019-03-27 19:00:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 523.34 Mbit/s
95th percentile per-packet one-way delay: 161.687 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 523.34 Mbit/s
95th percentile per-packet one-way delay: 161.687 ms
Loss rate: 1.29%
```
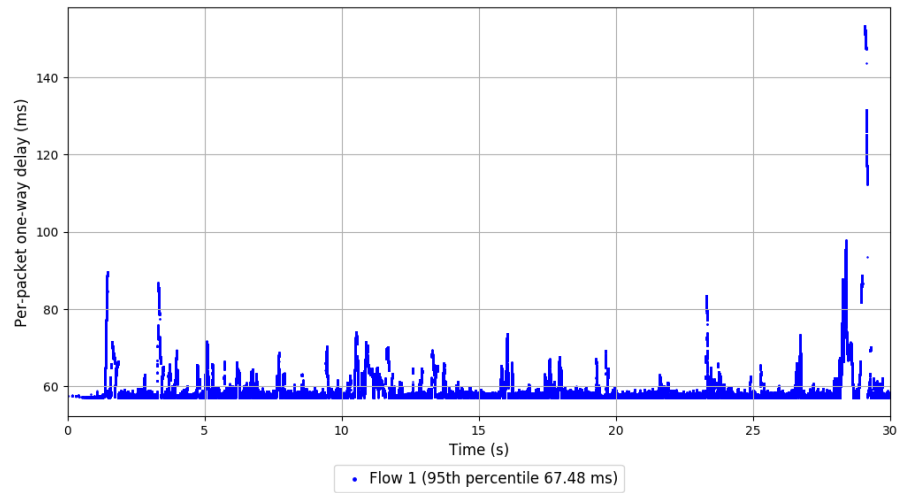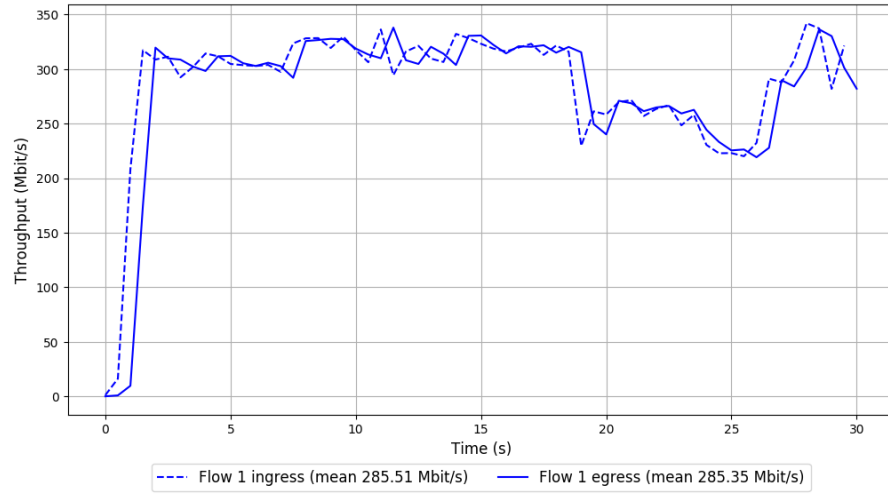
Run 5: Report of TCP BBR — Data Link

Flow 1 ingress (mean 528.15 Mbit/s) ---- Flow 1 egress (mean 523.34 Mbit/s)

• Flow 1 (95th percentile 161.69 ms)

```
Run 1: Statistics of Copa

Start at: 2019-03-27 16:23:09
End at: 2019-03-27 16:23:39
Local clock offset: -0.209 ms
Remote clock offset: -0.135 ms

# Below is generated by plot.py at 2019-03-27 19:00:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 220.69 Mbit/s
95th percentile per-packet one-way delay: 63.895 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 220.69 Mbit/s
95th percentile per-packet one-way delay: 63.895 ms
Loss rate: 0.20%
```
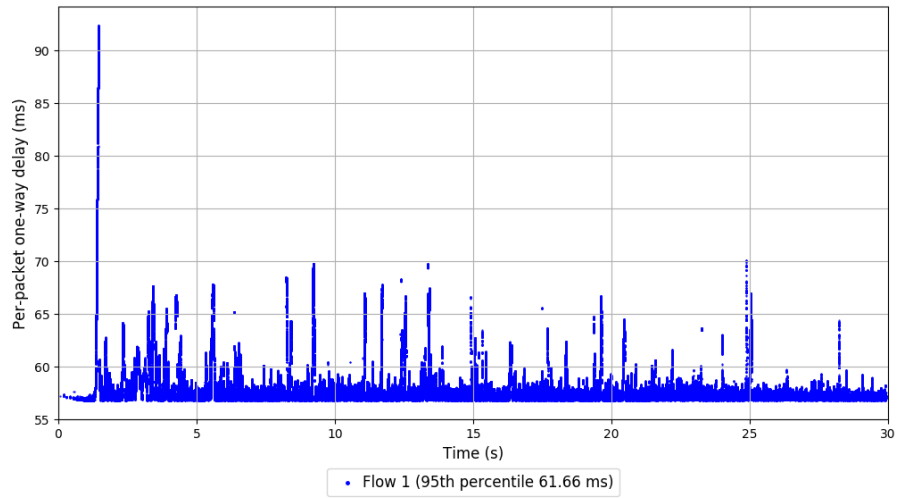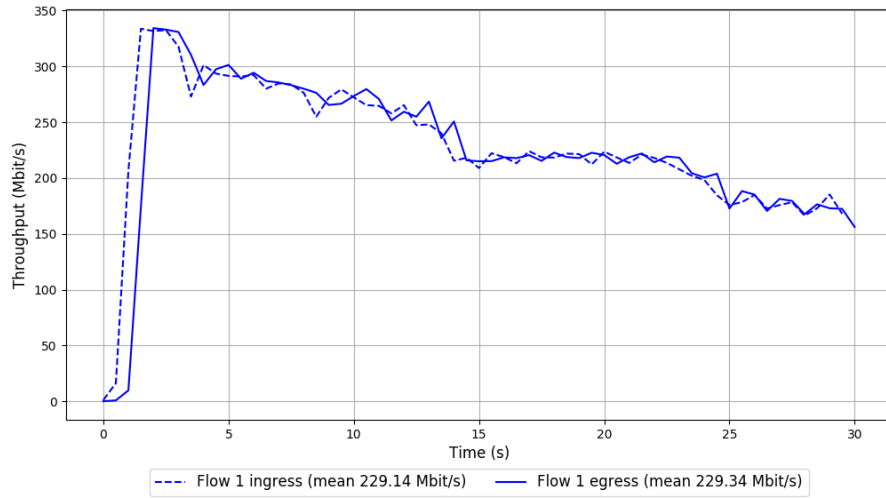
Run 1: Report of Copa — Data Link

```
Run 2: Statistics of Copa

Start at: 2019-03-27 16:55:09
End at: 2019-03-27 16:55:39
Local clock offset: -0.207 ms
Remote clock offset: 0.229 ms


# Below is generated by plot.py at 2019-03-27 19:00:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 285.35 Mbit/s
95th percentile per-packet one-way delay: 67.478 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 285.35 Mbit/s
95th percentile per-packet one-way delay: 67.478 ms
Loss rate: 0.44%
```
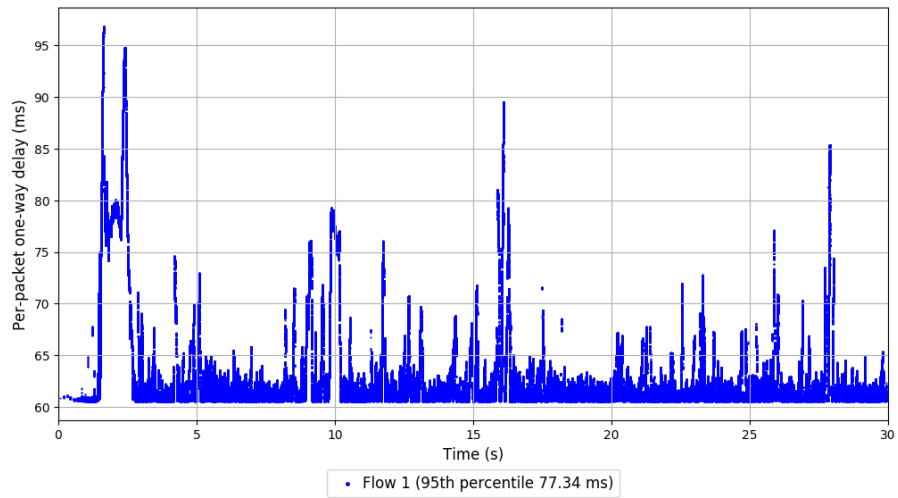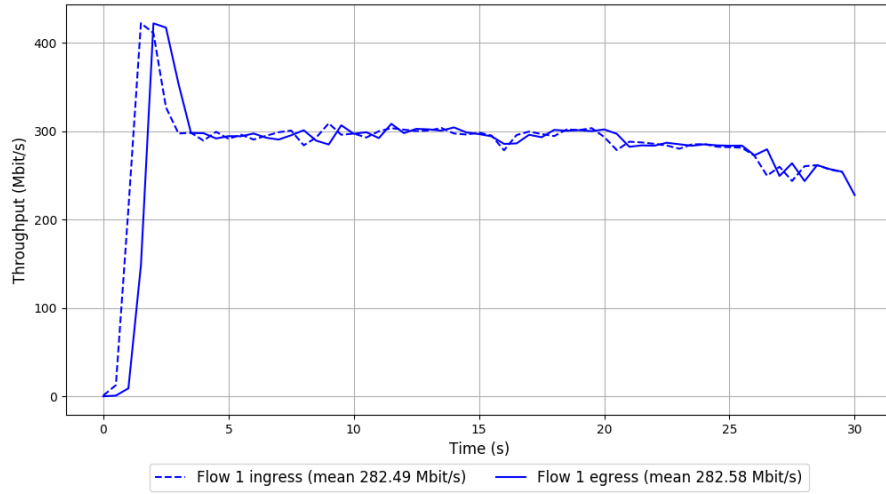
Run 2: Report of Copa — Data Link

```
Run 3: Statistics of Copa

Start at: 2019-03-27 17:26:47
End at: 2019-03-27 17:27:17
Local clock offset: -0.144 ms
Remote clock offset: 0.355 ms


# Below is generated by plot.py at 2019-03-27 19:00:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 229.34 Mbit/s
95th percentile per-packet one-way delay: 61.661 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 229.34 Mbit/s
95th percentile per-packet one-way delay: 61.661 ms
Loss rate: 0.29%
```
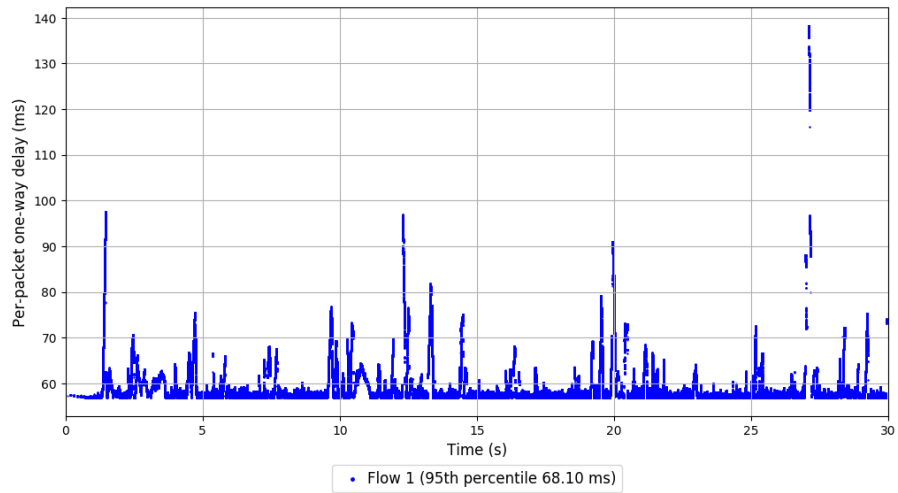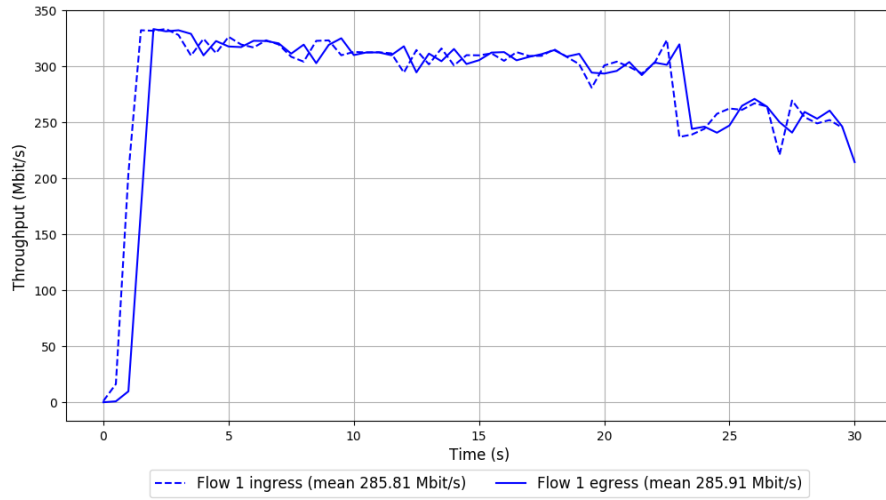
Run 3: Report of Copa — Data Link

```
Run 4: Statistics of Copa

Start at: 2019-03-27 17:57:32
End at: 2019-03-27 17:58:02
Local clock offset: 0.128 ms
Remote clock offset: 0.368 ms


# Below is generated by plot.py at 2019-03-27 19:08:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 282.58 Mbit/s
95th percentile per-packet one-way delay: 77.336 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 282.58 Mbit/s
95th percentile per-packet one-way delay: 77.336 ms
Loss rate: 0.36%
```
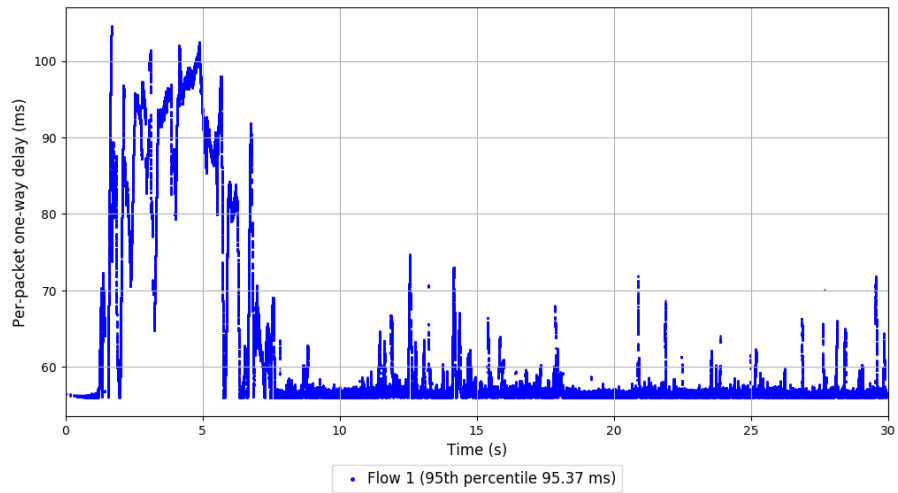
Run 4: Report of Copa — Data Link

```
Run 5: Statistics of Copa

Start at: 2019-03-27 18:29:08
End at: 2019-03-27 18:29:38
Local clock offset: 0.308 ms
Remote clock offset: 0.28 ms


# Below is generated by plot.py at 2019-03-27 19:08:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 285.91 Mbit/s
95th percentile per-packet one-way delay: 68.101 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 285.91 Mbit/s
95th percentile per-packet one-way delay: 68.101 ms
Loss rate: 0.35%
```
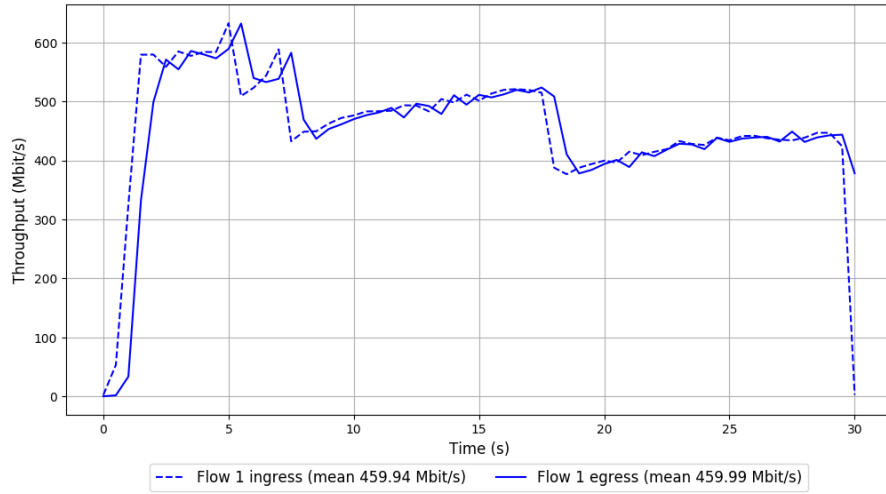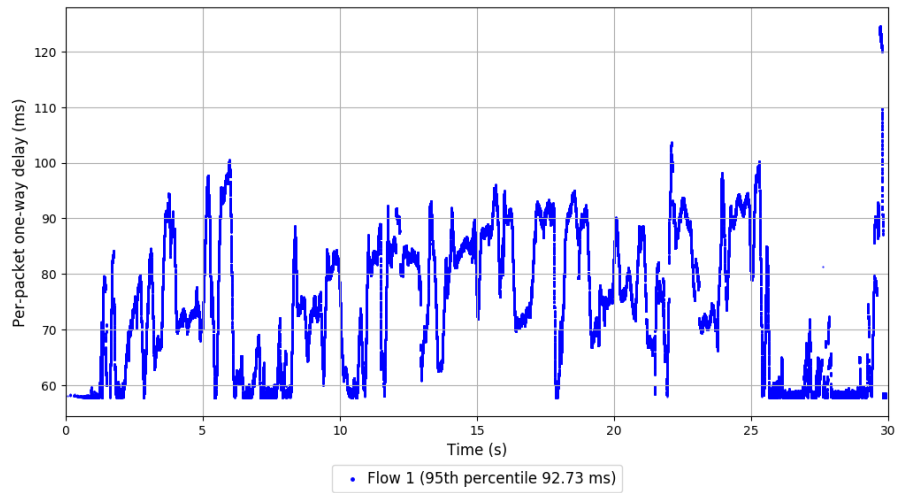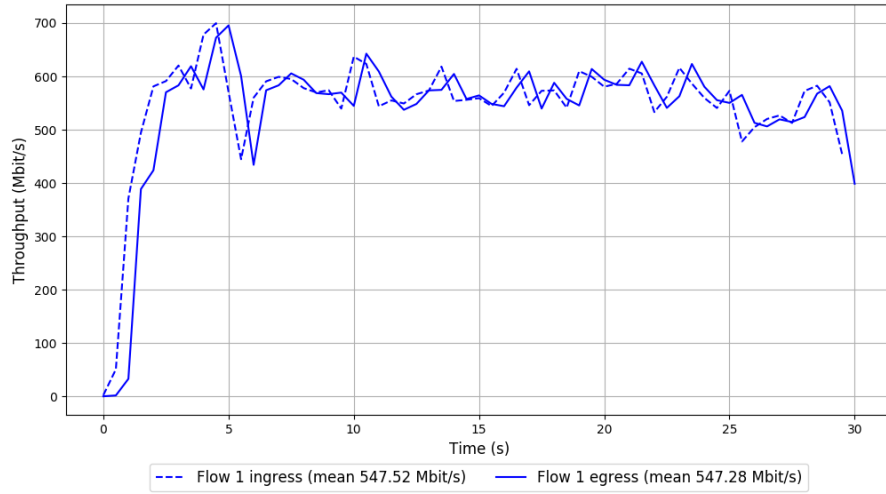
Run 5: Report of Copa — Data Link

```
Run 1: Statistics of TCP Cubic

Start at: 2019-03-27 16:01:59
End at: 2019-03-27 16:02:29
Local clock offset: -0.637 ms
Remote clock offset: 0.233 ms


# Below is generated by plot.py at 2019-03-27 19:08:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 459.99 Mbit/s
95th percentile per-packet one-way delay: 95.370 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 459.99 Mbit/s
95th percentile per-packet one-way delay: 95.370 ms
Loss rate: 0.37%
```
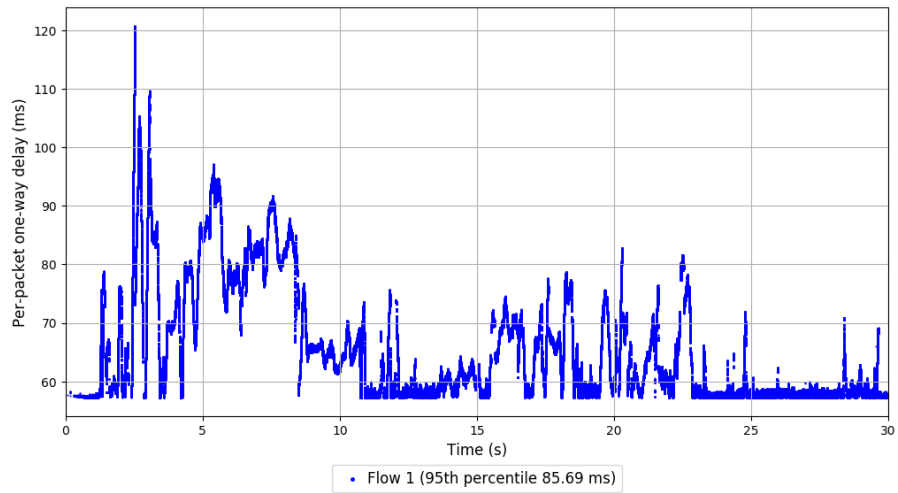
Run 1: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 459.94 Mbit/s) ----   Flow 1 egress (mean 459.99 Mbit/s) ——

Flow 1 (95th percentile 95.37 ms)

```
Run 2: Statistics of TCP Cubic

Start at: 2019-03-27 16:33:23
End at: 2019-03-27 16:33:53
Local clock offset: 0.19 ms
Remote clock offset: -0.128 ms


# Below is generated by plot.py at 2019-03-27 19:10:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 547.28 Mbit/s
95th percentile per-packet one-way delay: 92.732 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 547.28 Mbit/s
95th percentile per-packet one-way delay: 92.732 ms
Loss rate: 0.43%
```
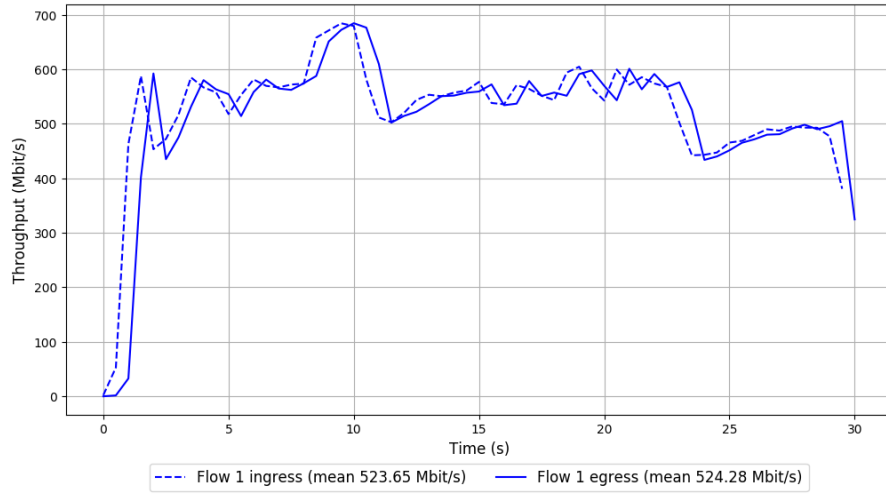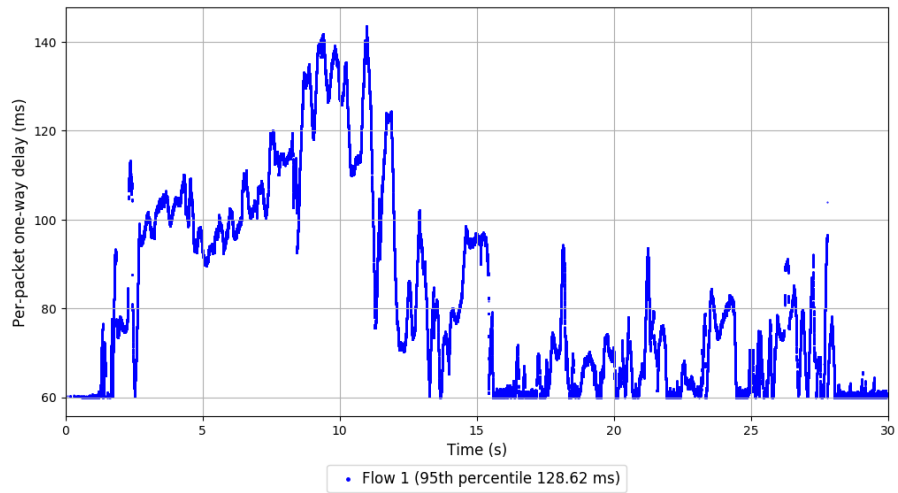
Run 2: Report of TCP Cubic — Data Link

```
Run 3: Statistics of TCP Cubic

Start at: 2019-03-27 17:05:42
End at: 2019-03-27 17:06:12
Local clock offset: 0.247 ms
Remote clock offset: 0.183 ms


# Below is generated by plot.py at 2019-03-27 19:10:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 524.28 Mbit/s
95th percentile per-packet one-way delay: 85.690 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 524.28 Mbit/s
95th percentile per-packet one-way delay: 85.690 ms
Loss rate: 0.26%
```
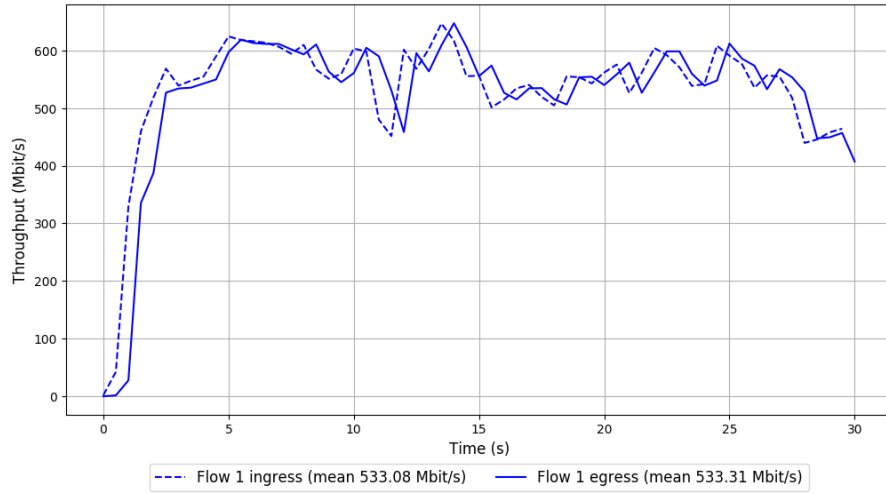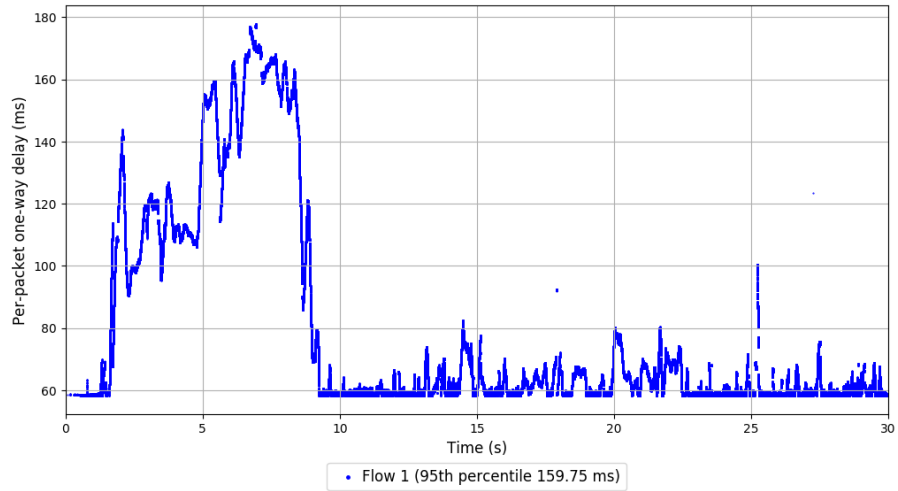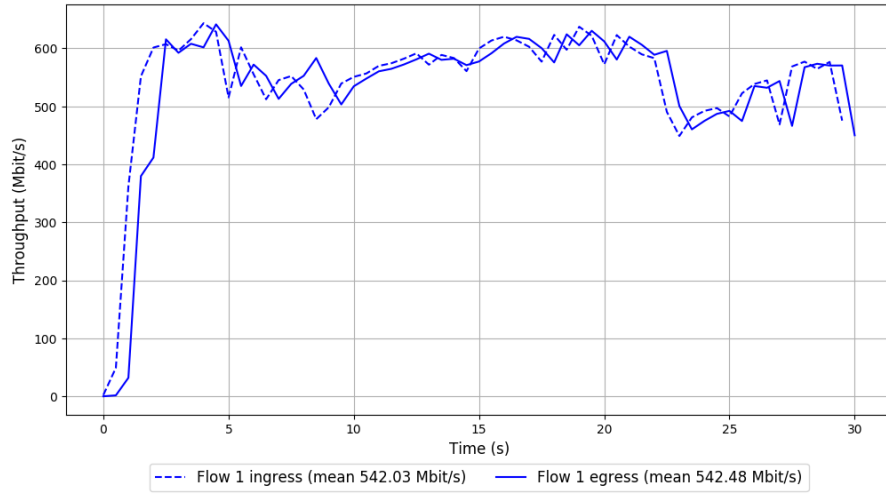
Run 3: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 523.65 Mbit/s)   Flow 1 egress (mean 524.28 Mbit/s)

Flow 1 (95th percentile 85.69 ms)

```
Run 4: Statistics of TCP Cubic

Start at: 2019-03-27 17:36:37
End at: 2019-03-27 17:37:07
Local clock offset: -0.529 ms
Remote clock offset: 0.301 ms


# Below is generated by plot.py at 2019-03-27 19:10:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 533.31 Mbit/s
95th percentile per-packet one-way delay: 128.625 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 533.31 Mbit/s
95th percentile per-packet one-way delay: 128.625 ms
Loss rate: 0.35%
```
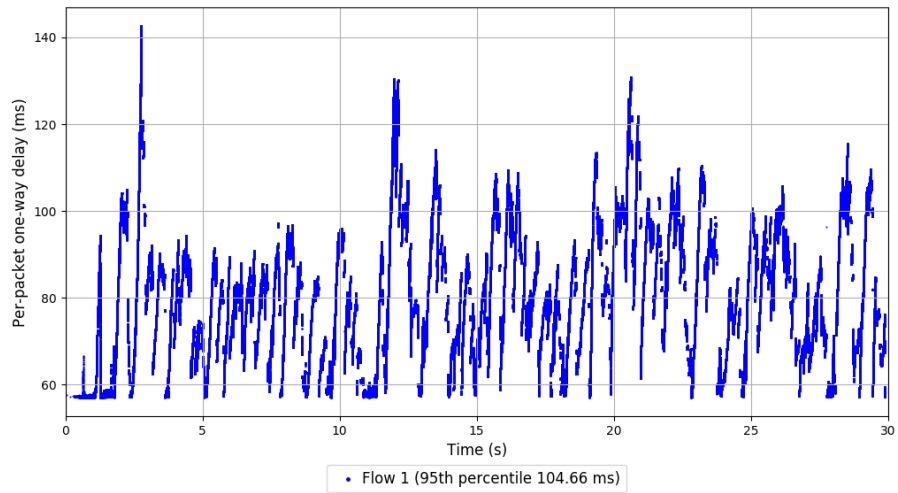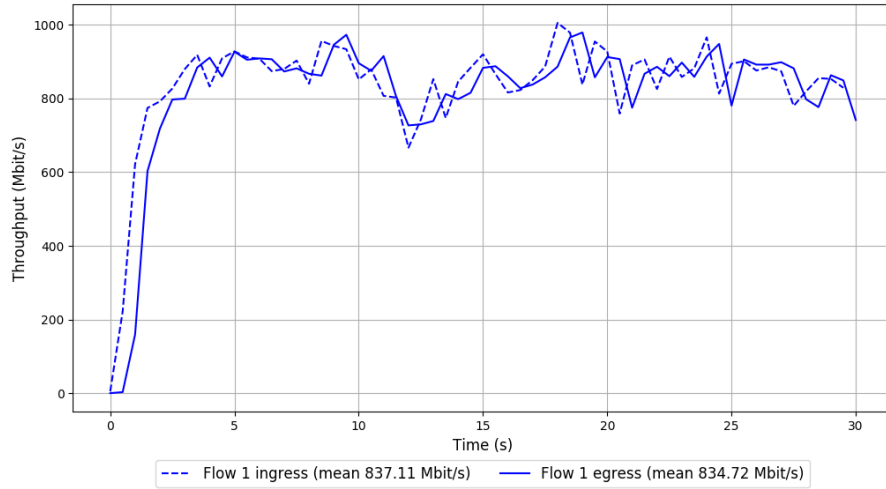
Run 4: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 533.08 Mbit/s) Flow 1 egress (mean 533.31 Mbit/s)

Flow 1 (95th percentile 128.62 ms)

```
Run 5: Statistics of TCP Cubic

Start at: 2019-03-27 18:07:25
End at: 2019-03-27 18:07:55
Local clock offset: 0.283 ms
Remote clock offset: -0.126 ms


# Below is generated by plot.py at 2019-03-27 19:10:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 542.48 Mbit/s
95th percentile per-packet one-way delay: 159.746 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 542.48 Mbit/s
95th percentile per-packet one-way delay: 159.746 ms
Loss rate: 0.30%
```
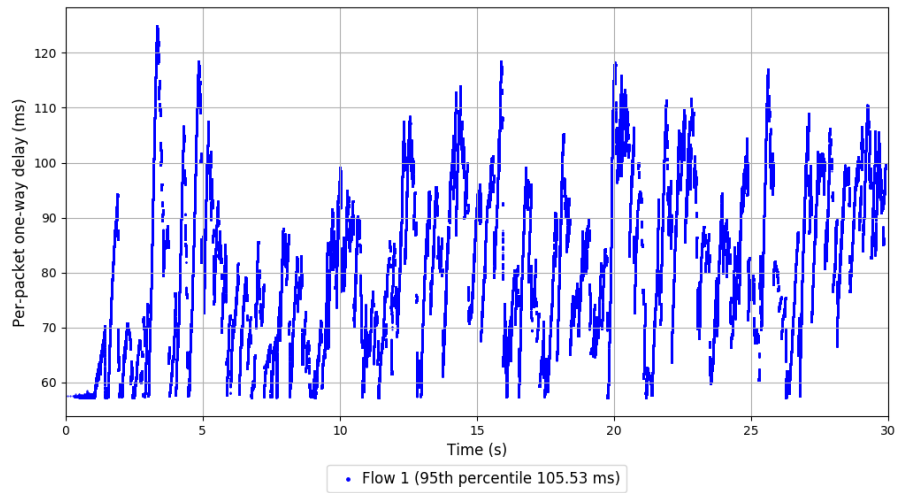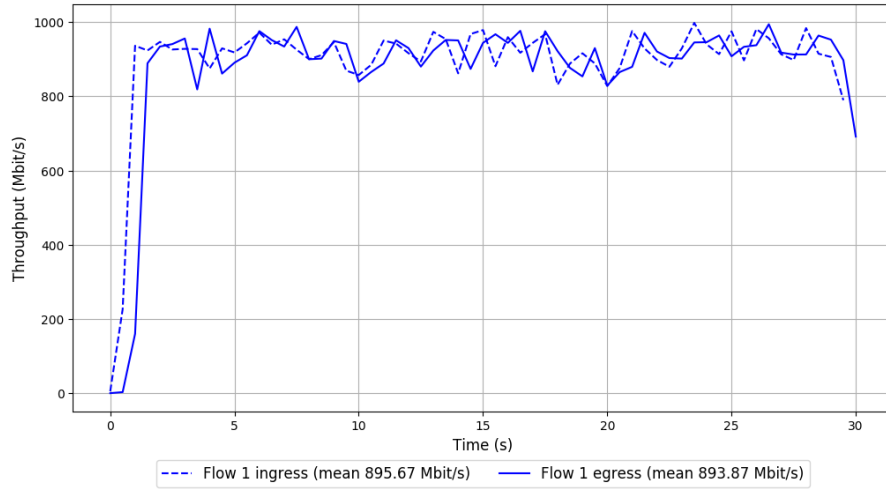
Run 5: Report of TCP Cubic — Data Link

```
Run 1: Statistics of FillP

Start at: 2019-03-27 16:28:55
End at: 2019-03-27 16:29:25
Local clock offset: -0.614 ms
Remote clock offset: -0.452 ms


# Below is generated by plot.py at 2019-03-27 19:17:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 834.72 Mbit/s
95th percentile per-packet one-way delay: 104.664 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 834.72 Mbit/s
95th percentile per-packet one-way delay: 104.664 ms
Loss rate: 0.67%
```
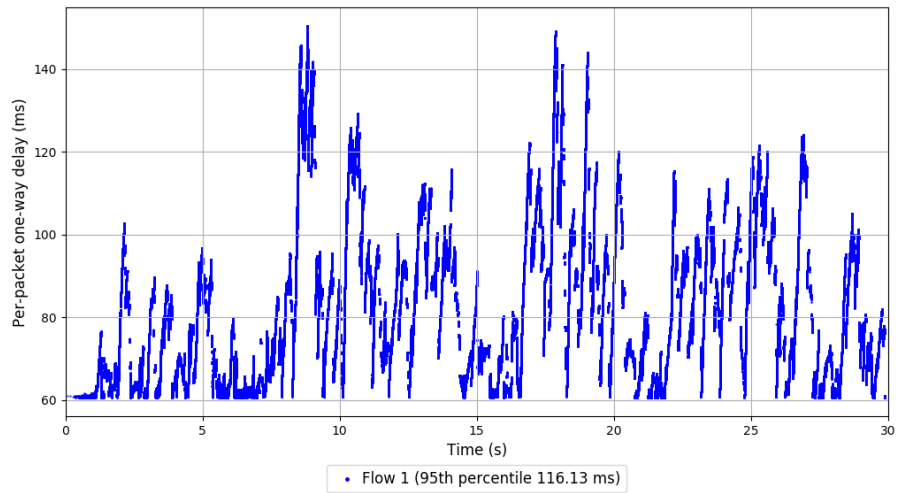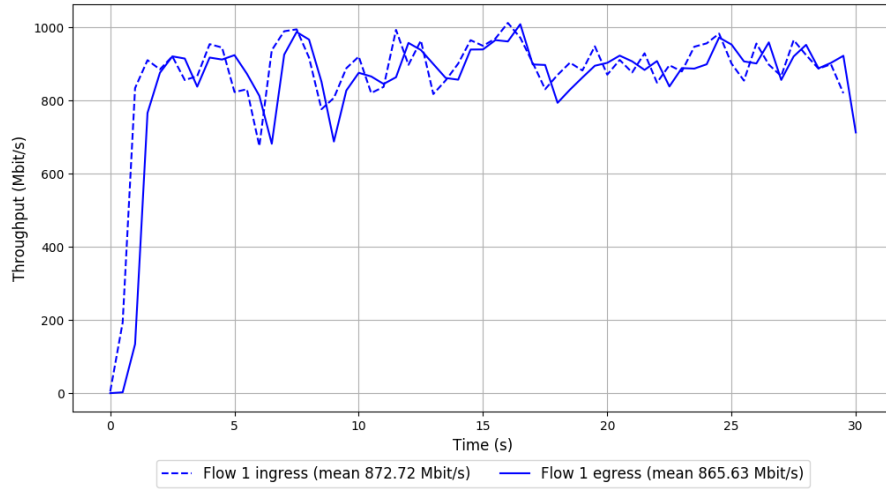
Run 1: Report of FillP — Data Link

Flow 1 ingress (mean 837.11 Mbit/s)   Flow 1 egress (mean 834.72 Mbit/s)

Flow 1 (95th percentile 104.66 ms)

```
Run 2: Statistics of FillP

Start at: 2019-03-27 17:01:07
End at: 2019-03-27 17:01:37
Local clock offset: -0.191 ms
Remote clock offset: 0.202 ms


# Below is generated by plot.py at 2019-03-27 19:29:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 893.87 Mbit/s
95th percentile per-packet one-way delay: 105.527 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 893.87 Mbit/s
95th percentile per-packet one-way delay: 105.527 ms
Loss rate: 0.58%
```
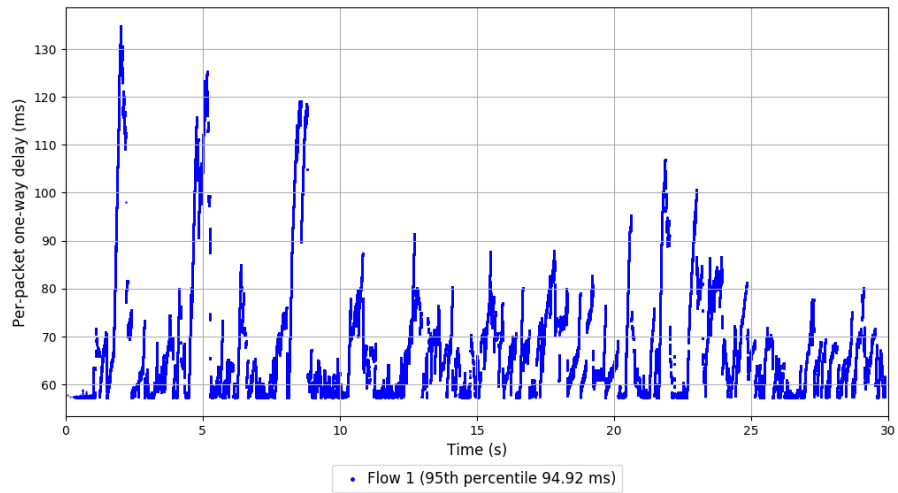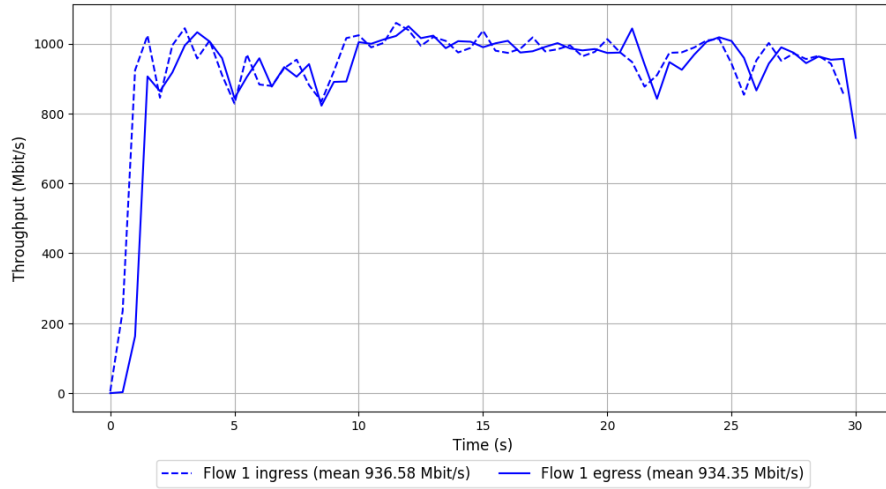
Run 2: Report of FillP — Data Link

Flow 1 ingress (mean 895.67 Mbit/s)   Flow 1 egress (mean 893.87 Mbit/s)
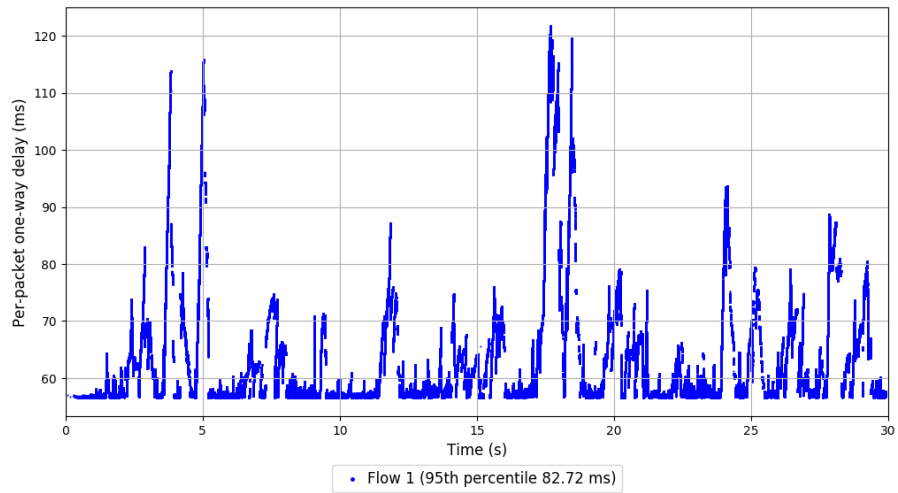

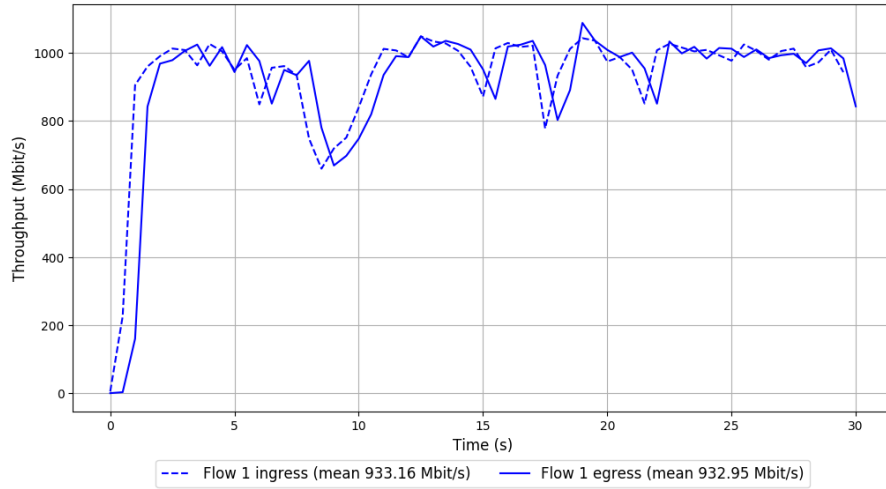
• Flow 1 (95th percentile 105.53 ms)

```
Run 3: Statistics of FillP

Start at: 2019-03-27 17:32:24
End at: 2019-03-27 17:32:54
Local clock offset: 0.307 ms
Remote clock offset: 0.499 ms


# Below is generated by plot.py at 2019-03-27 19:29:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 865.63 Mbit/s
95th percentile per-packet one-way delay: 116.131 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 865.63 Mbit/s
95th percentile per-packet one-way delay: 116.131 ms
Loss rate: 1.21%
```
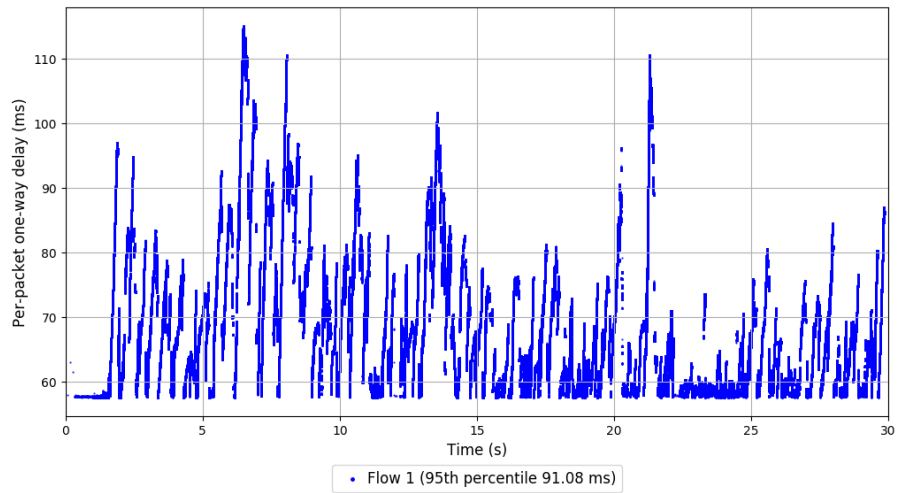
Run 3: Report of FillP — Data Link

```
Run 4: Statistics of FillP

Start at: 2019-03-27 18:03:09
End at: 2019-03-27 18:03:39
Local clock offset: 0.12 ms
Remote clock offset: 0.363 ms


# Below is generated by plot.py at 2019-03-27 19:30:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 934.35 Mbit/s
95th percentile per-packet one-way delay: 94.917 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 934.35 Mbit/s
95th percentile per-packet one-way delay: 94.917 ms
Loss rate: 0.62%
```
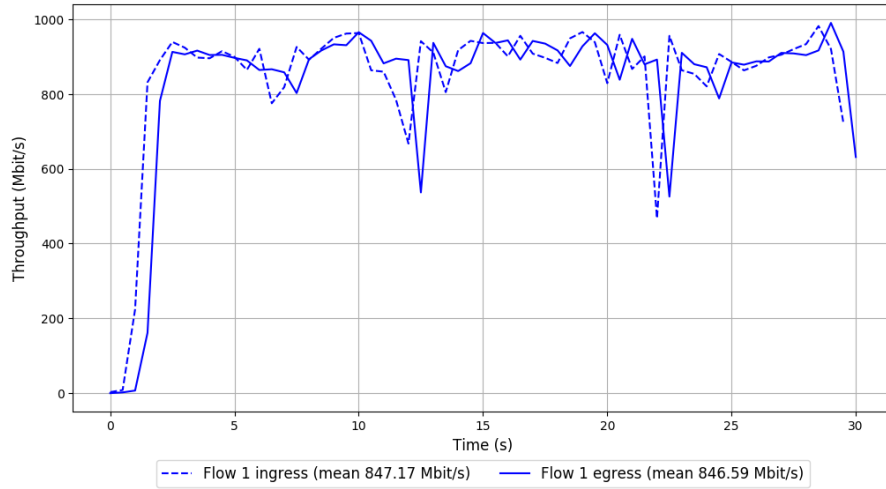
Run 4: Report of FillP — Data Link

Flow 1 ingress (mean 936.58 Mbit/s) ----   Flow 1 egress (mean 934.35 Mbit/s) ——

• Flow 1 (95th percentile 94.92 ms)

```
Run 5: Statistics of FillP

Start at: 2019-03-27 18:35:21
End at: 2019-03-27 18:35:51
Local clock offset: -0.293 ms
Remote clock offset: -0.213 ms


# Below is generated by plot.py at 2019-03-27 19:31:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 932.95 Mbit/s
95th percentile per-packet one-way delay: 82.723 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 932.95 Mbit/s
95th percentile per-packet one-way delay: 82.723 ms
Loss rate: 0.41%
```
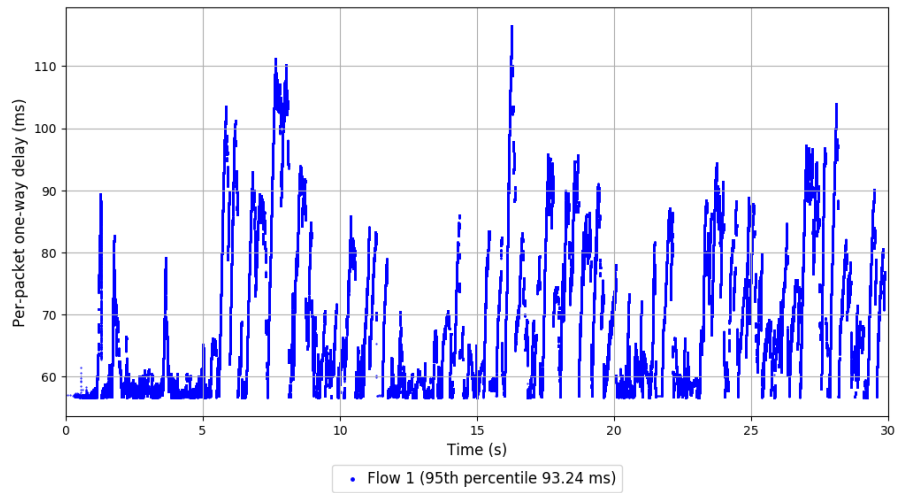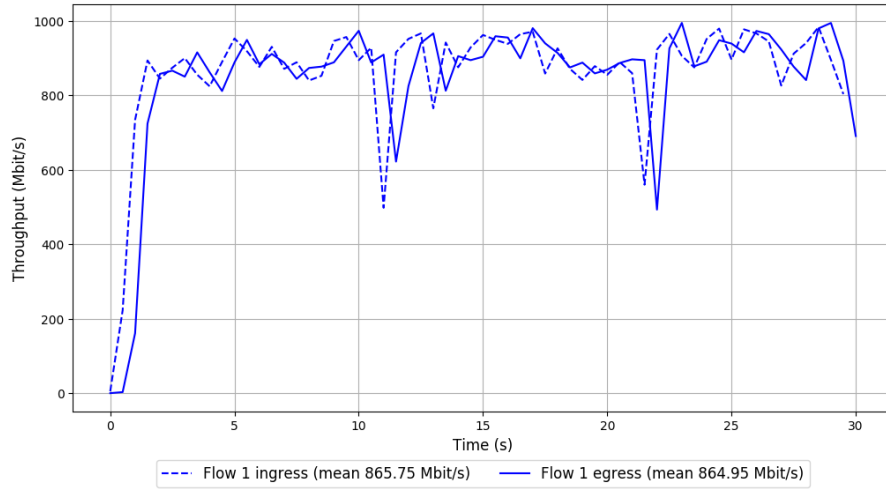
Run 5: Report of FillP — Data Link

Flow 1 ingress (mean 933.16 Mbit/s) --- Flow 1 egress (mean 932.95 Mbit/s)

• Flow 1 (95th percentile 82.72 ms)

```
Run 1: Statistics of FillP-Sheep

Start at: 2019-03-27 16:03:30
End at: 2019-03-27 16:04:00
Local clock offset: -0.025 ms
Remote clock offset: -0.246 ms


# Below is generated by plot.py at 2019-03-27 19:31:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 846.59 Mbit/s
95th percentile per-packet one-way delay: 91.079 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 846.59 Mbit/s
95th percentile per-packet one-way delay: 91.079 ms
Loss rate: 0.45%
```
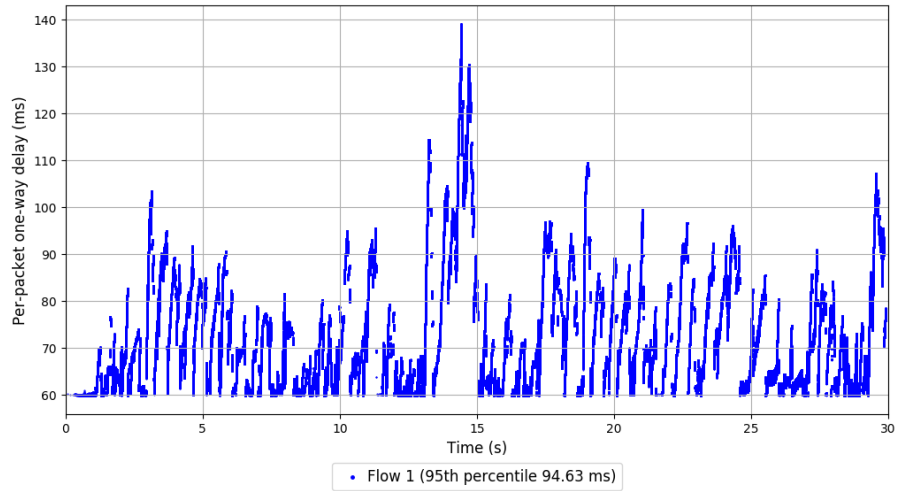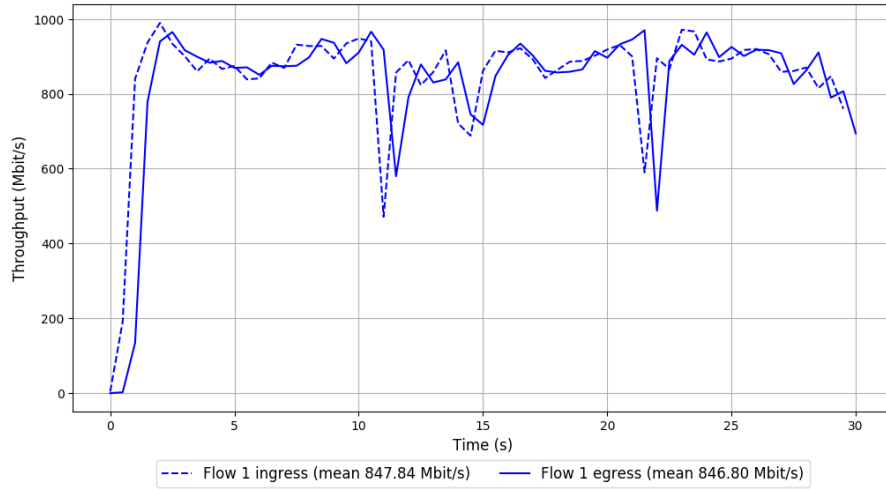
Run 1: Report of FillP-Sheep — Data Link

```
Run 2: Statistics of FillP-Sheep

Start at: 2019-03-27 16:35:08
End at: 2019-03-27 16:35:38
Local clock offset: -0.2 ms
Remote clock offset: 0.344 ms


# Below is generated by plot.py at 2019-03-27 19:31:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 864.95 Mbit/s
95th percentile per-packet one-way delay: 93.239 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 864.95 Mbit/s
95th percentile per-packet one-way delay: 93.239 ms
Loss rate: 0.48%
```
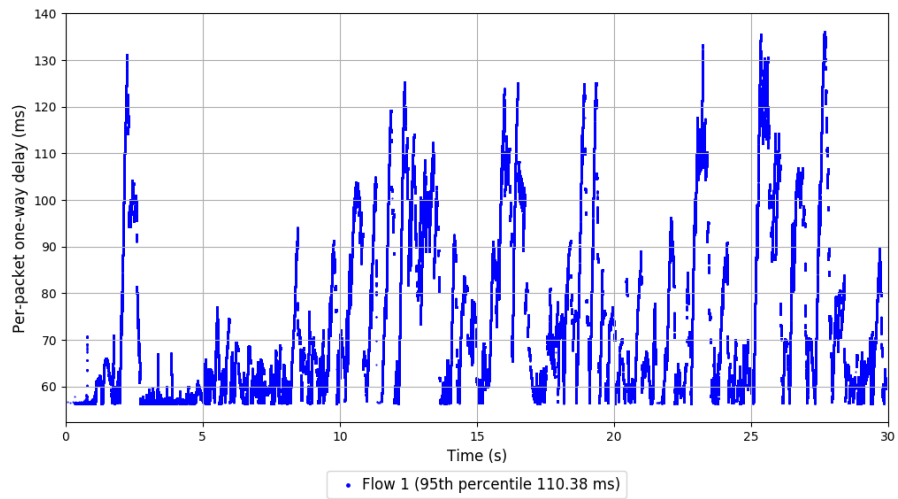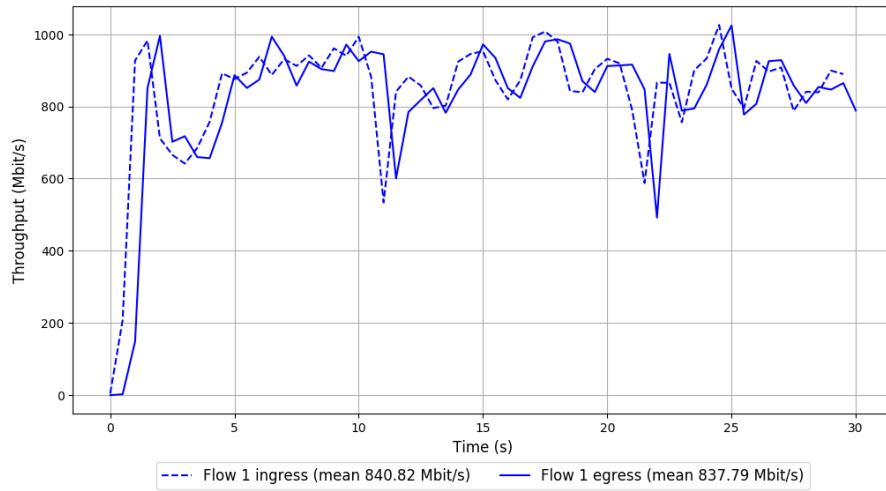
Run 2: Report of FillP-Sheep — Data Link

```
Run 3: Statistics of FillP-Sheep

Start at: 2019-03-27 17:07:23
End at: 2019-03-27 17:07:53
Local clock offset: -0.26 ms
Remote clock offset: 0.37 ms


# Below is generated by plot.py at 2019-03-27 19:31:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 846.80 Mbit/s
95th percentile per-packet one-way delay: 94.626 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 846.80 Mbit/s
95th percentile per-packet one-way delay: 94.626 ms
Loss rate: 0.47%
```
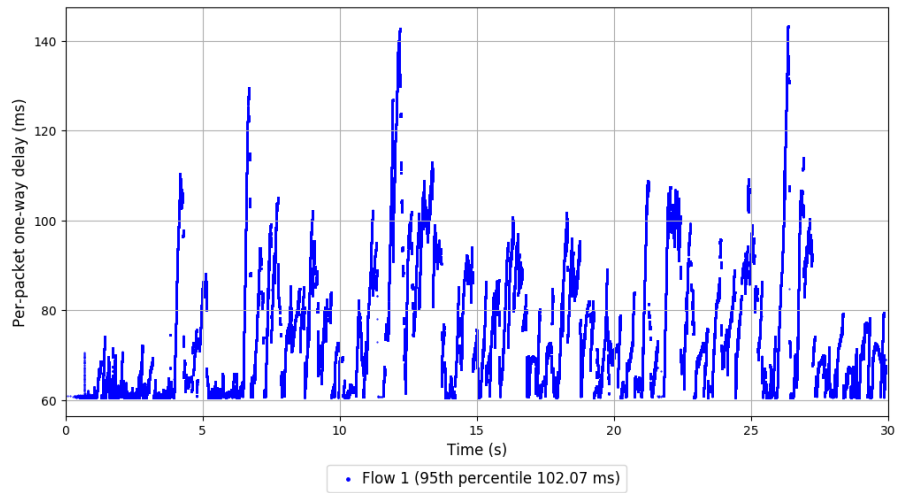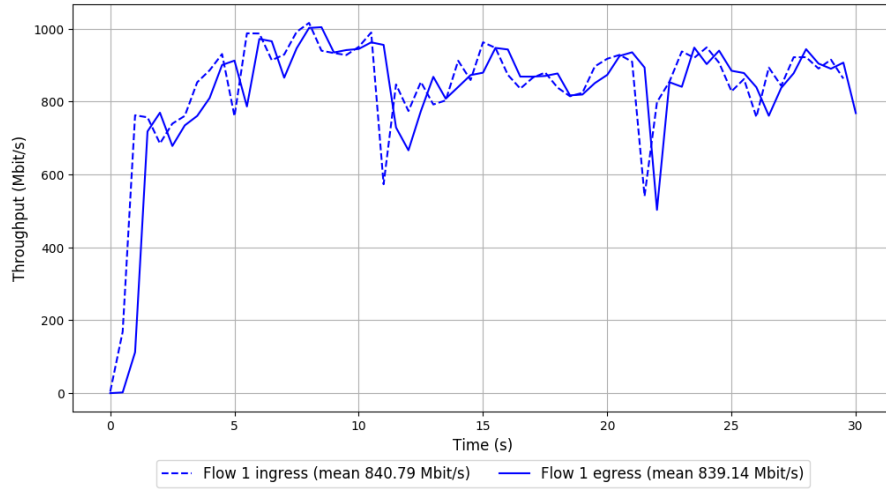
Run 3: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 847.84 Mbit/s)   Flow 1 egress (mean 846.80 Mbit/s)

Flow 1 (95th percentile 94.63 ms)

```
Run 4: Statistics of FillP-Sheep

Start at: 2019-03-27 17:38:12
End at: 2019-03-27 17:38:42
Local clock offset: -0.293 ms
Remote clock offset: 0.569 ms


# Below is generated by plot.py at 2019-03-27 19:40:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 837.79 Mbit/s
95th percentile per-packet one-way delay: 110.379 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 837.79 Mbit/s
95th percentile per-packet one-way delay: 110.379 ms
Loss rate: 0.74%
```
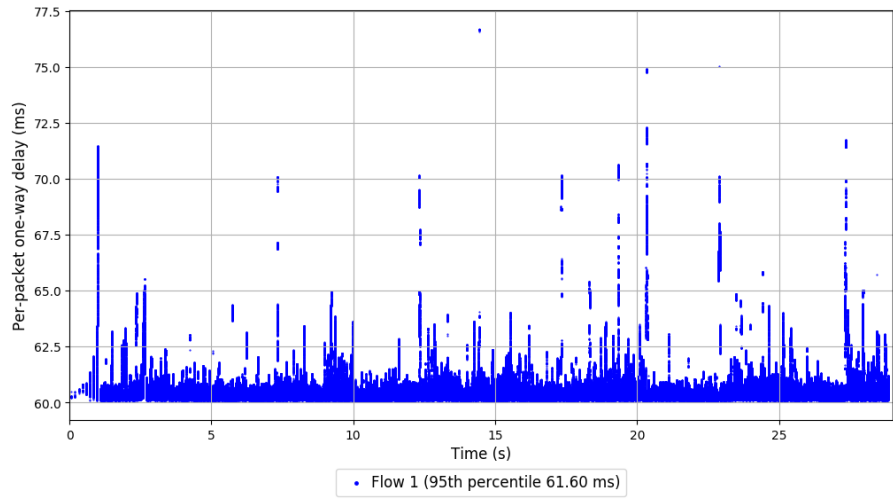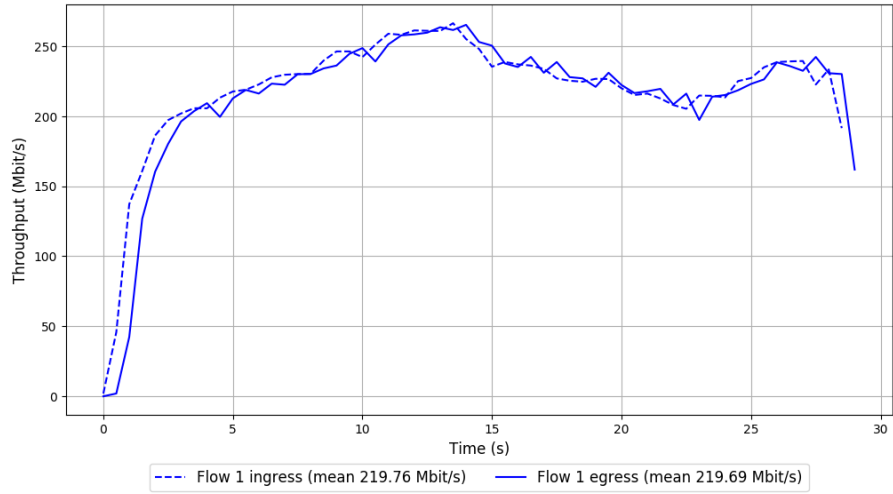
Run 4: Report of FillP-Sheep — Data Link

```
Run 5: Statistics of FillP-Sheep

Start at: 2019-03-27 18:08:59
End at: 2019-03-27 18:09:29
Local clock offset: -0.126 ms
Remote clock offset: 0.479 ms


# Below is generated by plot.py at 2019-03-27 19:48:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 839.14 Mbit/s
95th percentile per-packet one-way delay: 102.069 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 839.14 Mbit/s
95th percentile per-packet one-way delay: 102.069 ms
Loss rate: 0.59%
```
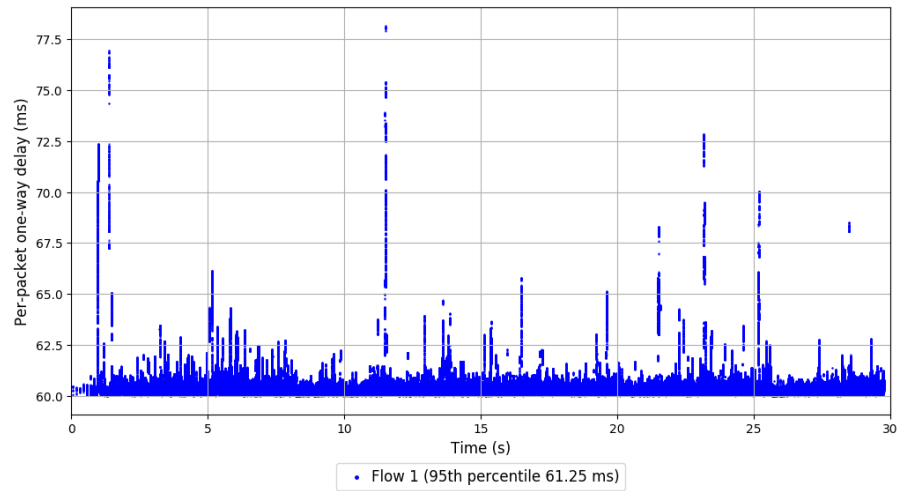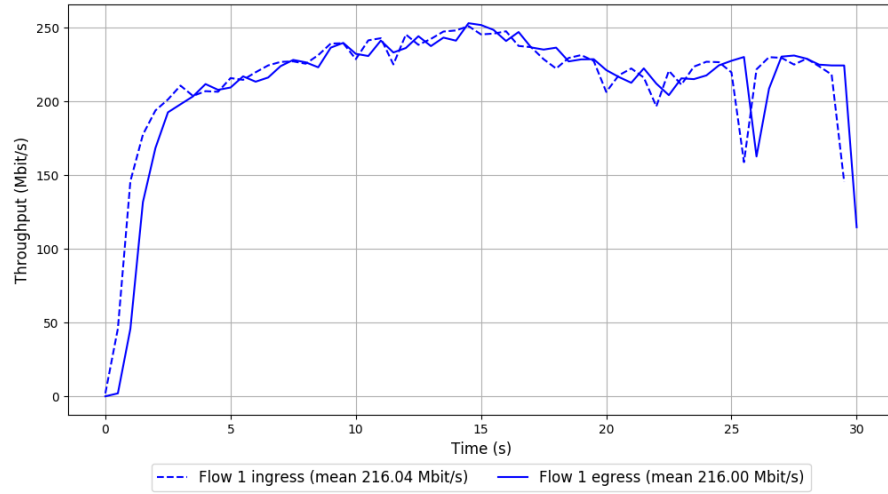
Run 5: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 840.79 Mbit/s)   Flow 1 egress (mean 839.14 Mbit/s)
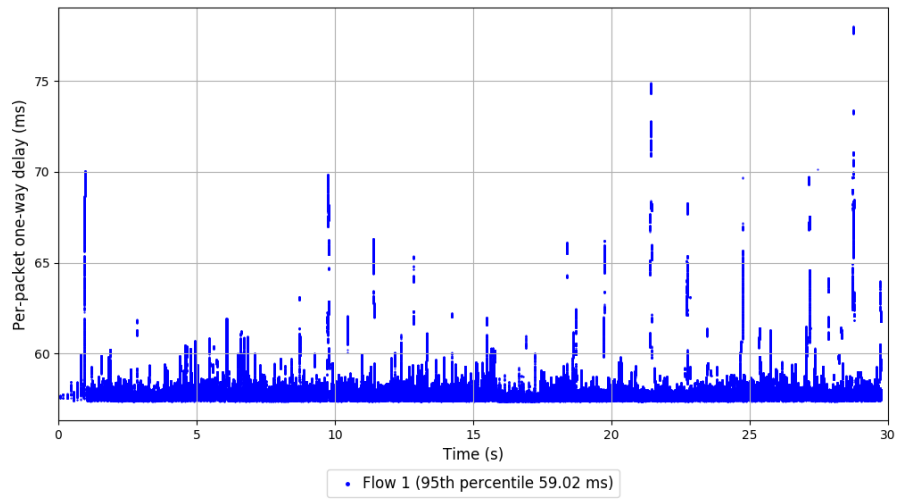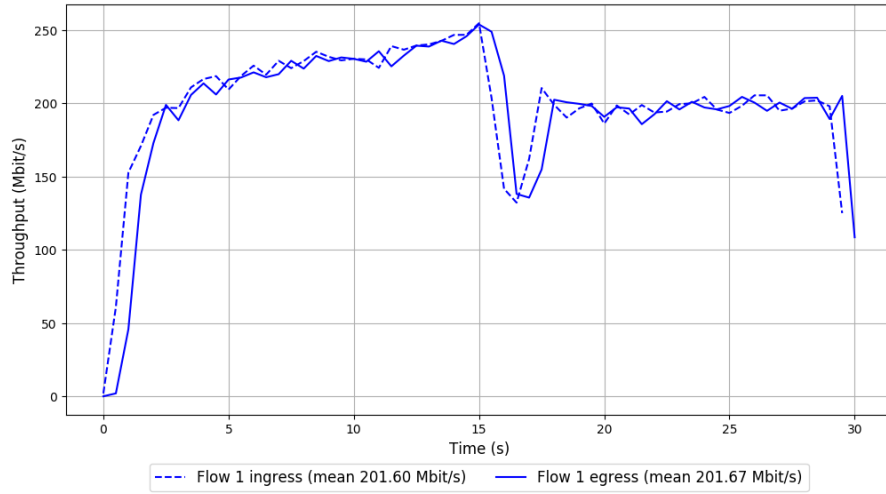

Flow 1 (95th percentile 102.07 ms)

```
Run 1: Statistics of Indigo

Start at: 2019-03-27 16:16:47
End at: 2019-03-27 16:17:17
Local clock offset: -0.612 ms
Remote clock offset: -0.604 ms


# Below is generated by plot.py at 2019-03-27 19:48:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.69 Mbit/s
95th percentile per-packet one-way delay: 61.604 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 219.69 Mbit/s
95th percentile per-packet one-way delay: 61.604 ms
Loss rate: 0.44%
```

Run 1: Report of Indigo — Data Link

```
Run 2: Statistics of Indigo

Start at: 2019-03-27 16:48:29
End at: 2019-03-27 16:48:59
Local clock offset: -0.22 ms
Remote clock offset: 0.299 ms


# Below is generated by plot.py at 2019-03-27 19:48:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 216.00 Mbit/s
95th percentile per-packet one-way delay: 61.253 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 216.00 Mbit/s
95th percentile per-packet one-way delay: 61.253 ms
Loss rate: 0.41%
```
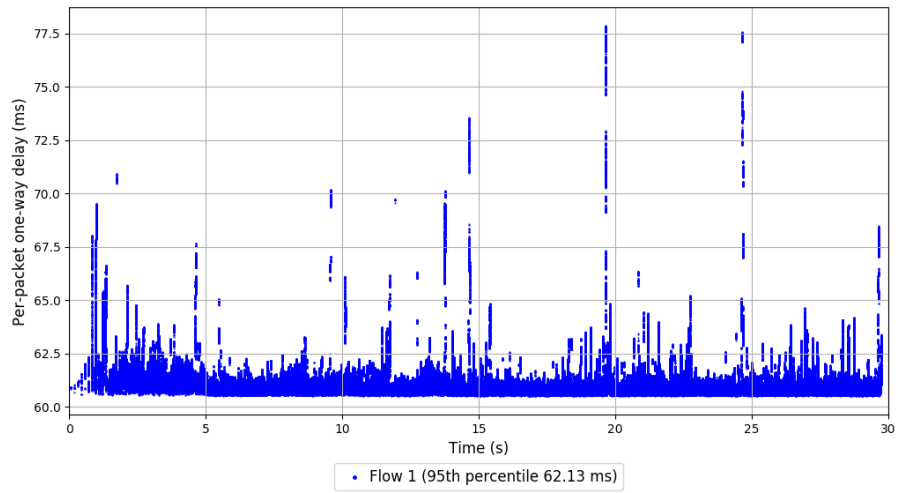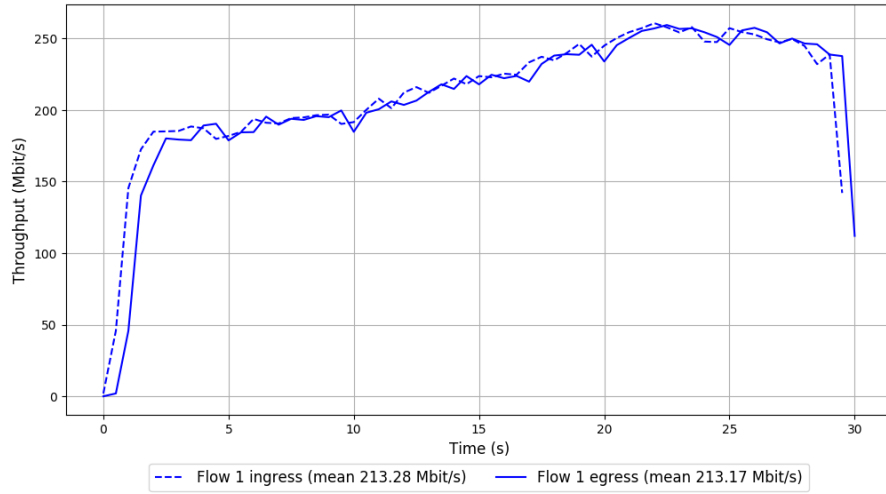
Run 2: Report of Indigo — Data Link

```
Run 3: Statistics of Indigo

Start at: 2019-03-27 17:20:41
End at: 2019-03-27 17:21:11
Local clock offset: -0.236 ms
Remote clock offset: -0.241 ms


# Below is generated by plot.py at 2019-03-27 19:48:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 201.67 Mbit/s
95th percentile per-packet one-way delay: 59.021 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 201.67 Mbit/s
95th percentile per-packet one-way delay: 59.021 ms
Loss rate: 0.35%
```
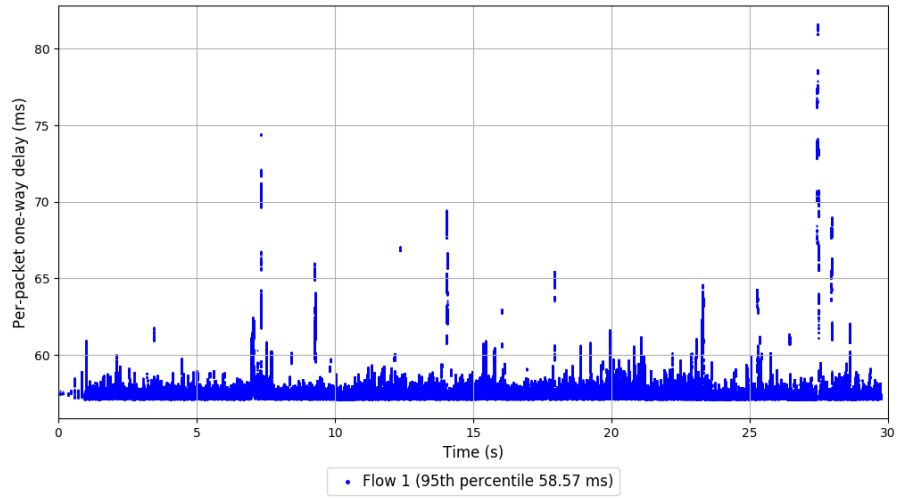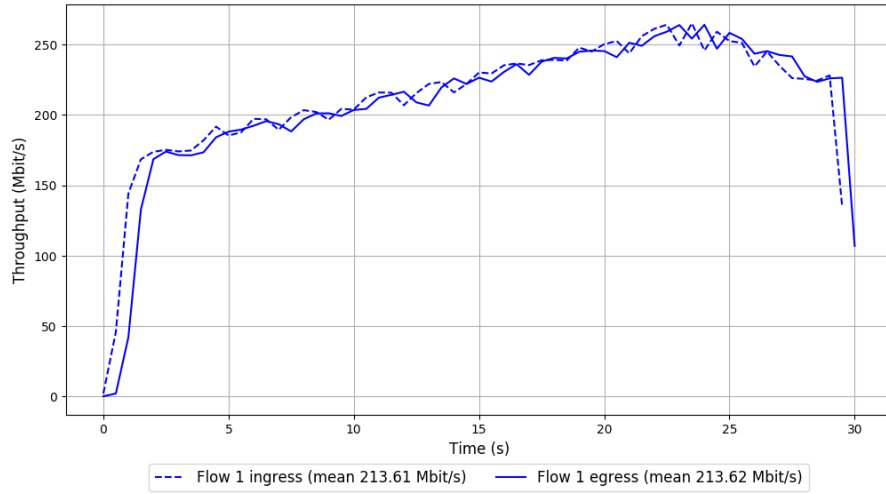
Run 3: Report of Indigo — Data Link

```
Run 4: Statistics of Indigo

Start at: 2019-03-27 17:51:21
End at: 2019-03-27 17:51:51
Local clock offset: -0.173 ms
Remote clock offset: 0.264 ms


# Below is generated by plot.py at 2019-03-27 19:48:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 213.17 Mbit/s
95th percentile per-packet one-way delay: 62.132 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 213.17 Mbit/s
95th percentile per-packet one-way delay: 62.132 ms
Loss rate: 0.45%
```
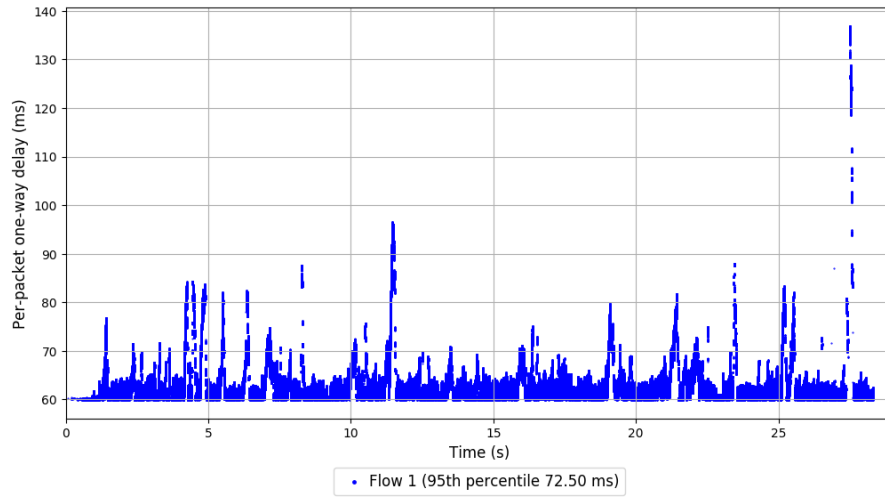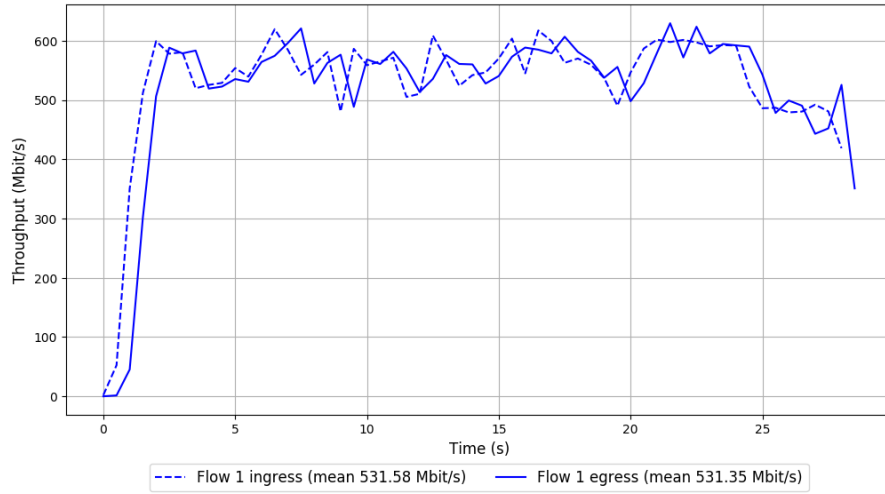
Run 4: Report of Indigo — Data Link

Flow 1 ingress (mean 213.28 Mbit/s)   Flow 1 egress (mean 213.17 Mbit/s)

Flow 1 (95th percentile 62.13 ms)

```
Run 5: Statistics of Indigo

Start at: 2019-03-27 18:22:20
End at: 2019-03-27 18:22:50
Local clock offset: 0.152 ms
Remote clock offset: -0.235 ms

# Below is generated by plot.py at 2019-03-27 19:48:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 213.62 Mbit/s
95th percentile per-packet one-way delay: 58.574 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 213.62 Mbit/s
95th percentile per-packet one-way delay: 58.574 ms
Loss rate: 0.38%
```
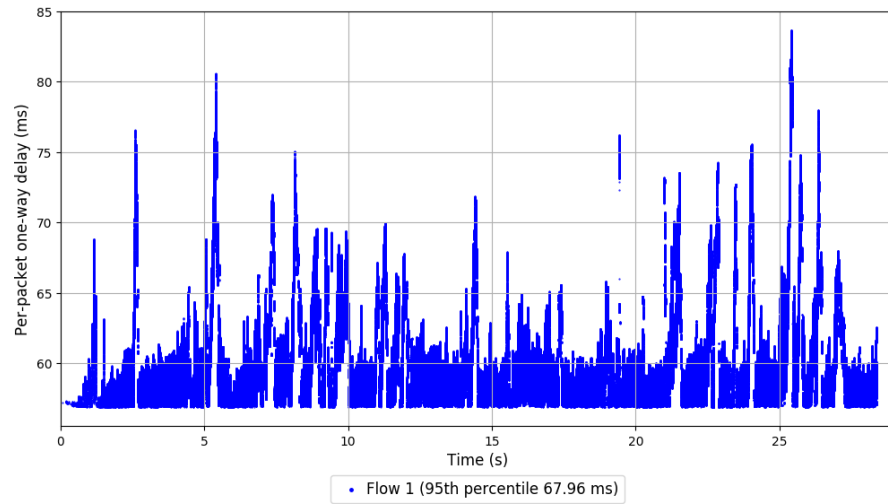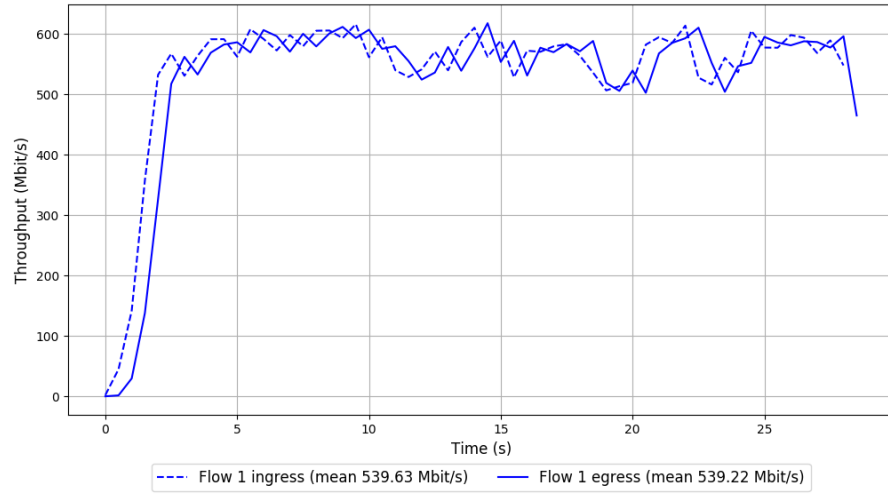
Run 5: Report of Indigo — Data Link

```
Run 1: Statistics of Indigo-MusesC3

Start at: 2019-03-27 16:25:54
End at: 2019-03-27 16:26:25
Local clock offset: -0.453 ms
Remote clock offset: -0.06 ms


# Below is generated by plot.py at 2019-03-27 19:48:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 531.35 Mbit/s
95th percentile per-packet one-way delay: 72.496 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 531.35 Mbit/s
95th percentile per-packet one-way delay: 72.496 ms
Loss rate: 0.46%
```
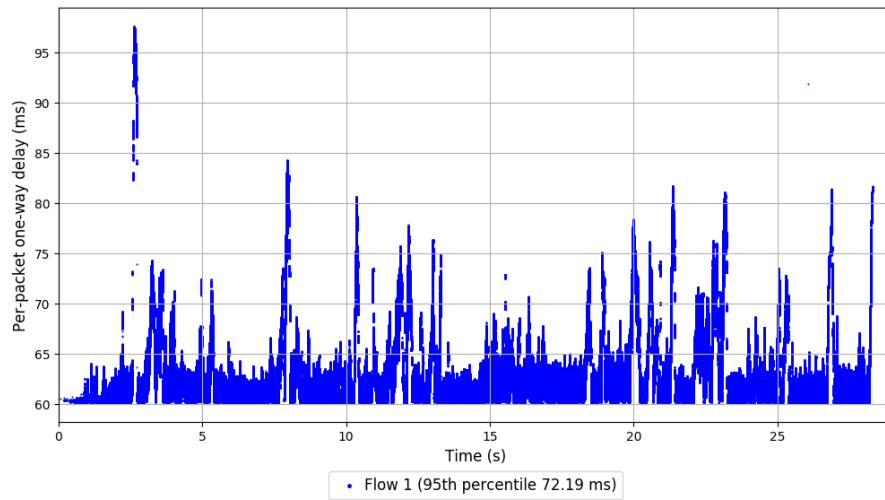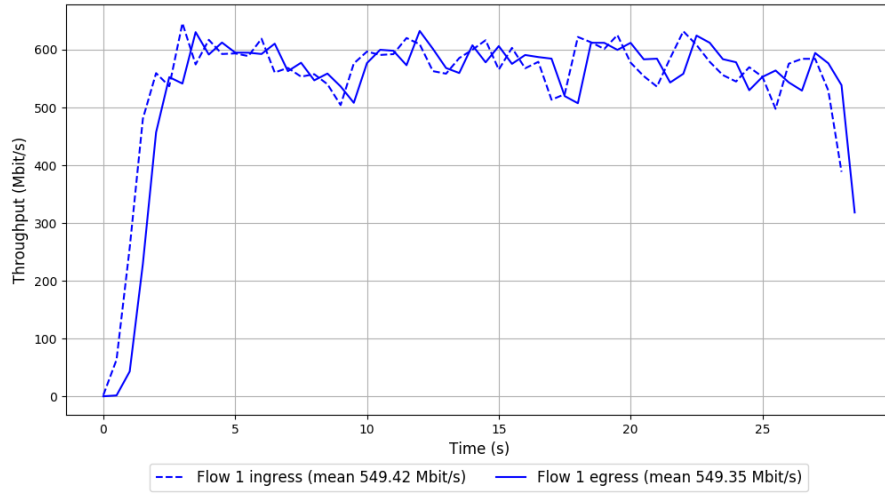
Run 1: Report of Indigo-MusesC3 — Data Link

```
Run 2: Statistics of Indigo-MusesC3

Start at: 2019-03-27 16:58:02
End at: 2019-03-27 16:58:32
Local clock offset: -0.431 ms
Remote clock offset: 0.295 ms


# Below is generated by plot.py at 2019-03-27 19:48:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 539.22 Mbit/s
95th percentile per-packet one-way delay: 67.957 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 539.22 Mbit/s
95th percentile per-packet one-way delay: 67.957 ms
Loss rate: 0.48%
```
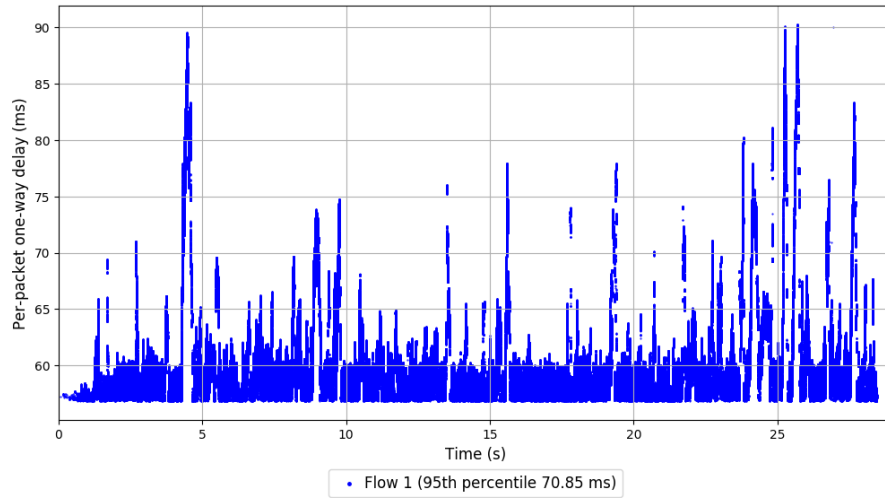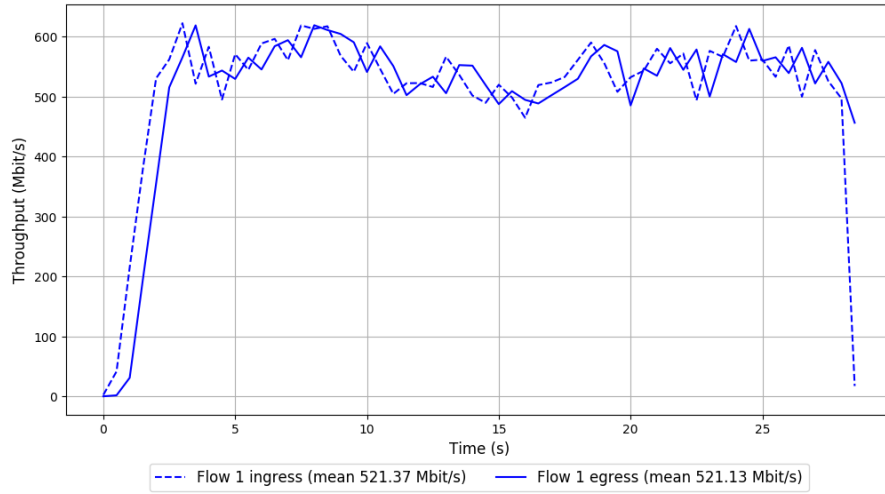
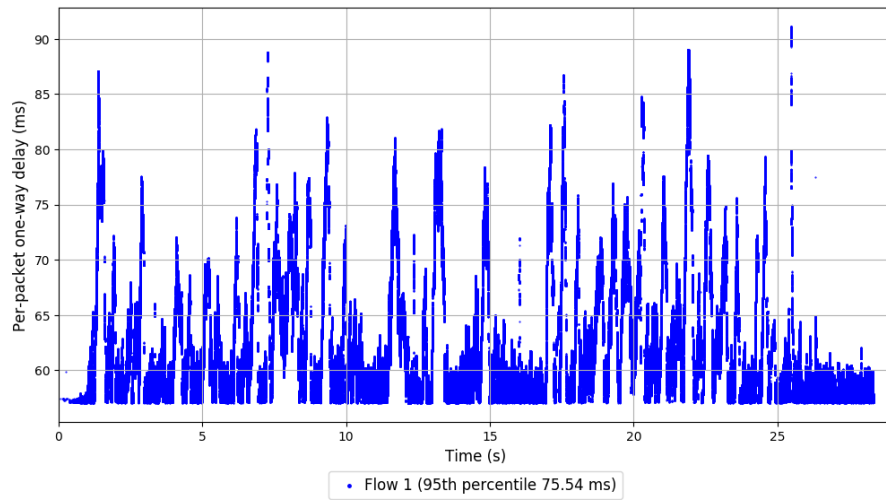Run 2: Report of Indigo-MusesC3 — Data Link

```
Run 3: Statistics of Indigo-MusesC3

Start at: 2019-03-27 17:29:28
End at: 2019-03-27 17:29:58
Local clock offset: -0.215 ms
Remote clock offset: 0.306 ms


# Below is generated by plot.py at 2019-03-27 19:48:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 549.35 Mbit/s
95th percentile per-packet one-way delay: 72.191 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 549.35 Mbit/s
95th percentile per-packet one-way delay: 72.191 ms
Loss rate: 0.43%
```
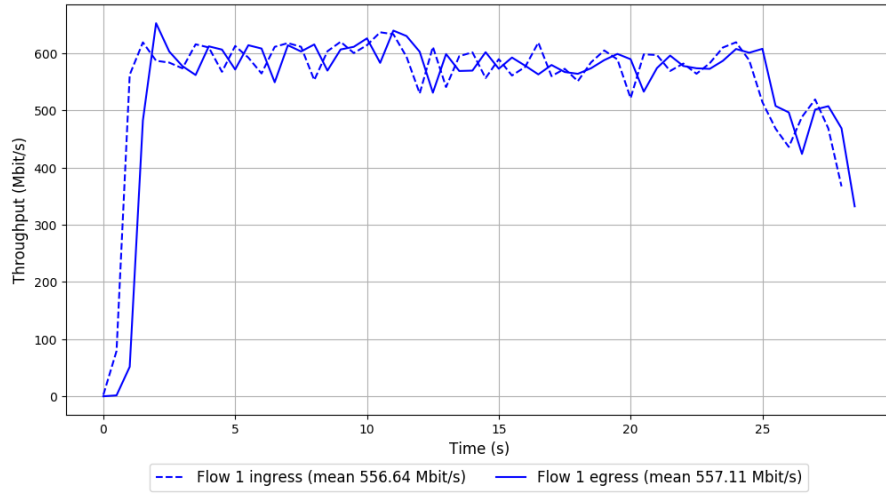
Run 3: Report of Indigo-MusesC3 — Data Link

Flow 1 ingress (mean 549.42 Mbit/s) Flow 1 egress (mean 549.35 Mbit/s)

Flow 1 (95th percentile 72.19 ms)

```
Run 4: Statistics of Indigo-MusesC3

Start at: 2019-03-27 18:00:17
End at: 2019-03-27 18:00:47
Local clock offset: -0.115 ms
Remote clock offset: 0.504 ms


# Below is generated by plot.py at 2019-03-27 19:48:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 521.13 Mbit/s
95th percentile per-packet one-way delay: 70.849 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 521.13 Mbit/s
95th percentile per-packet one-way delay: 70.849 ms
Loss rate: 0.45%
```
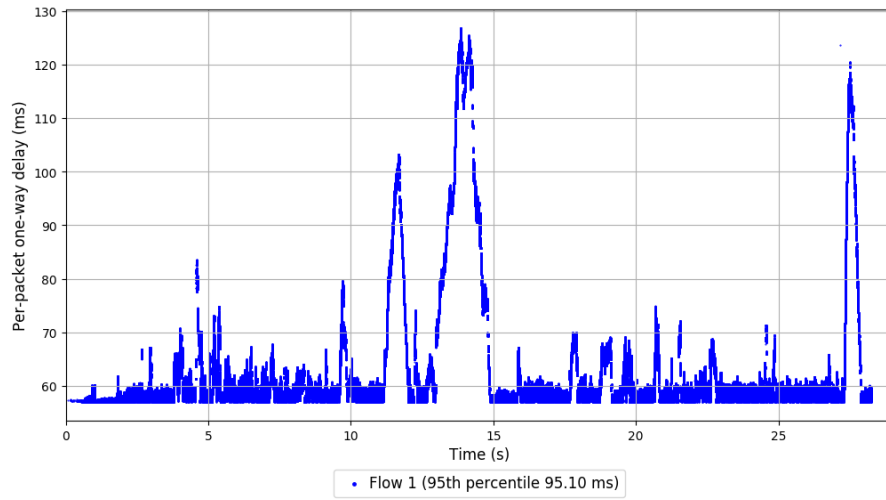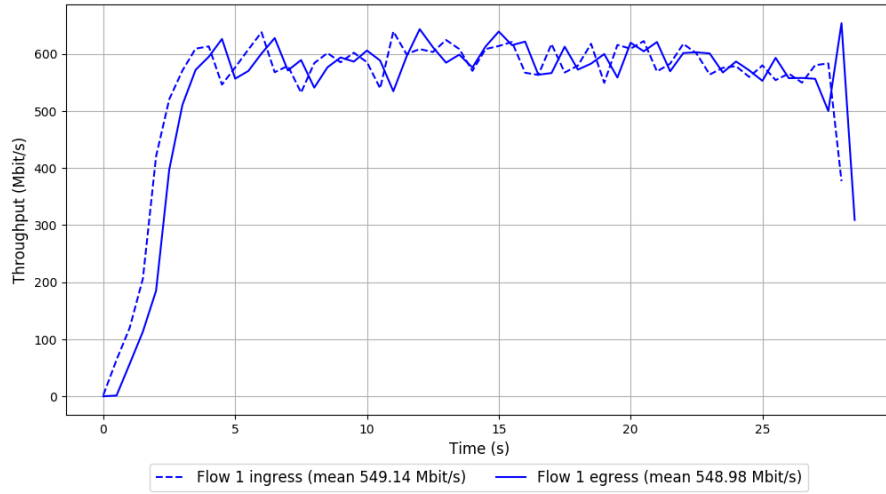
Run 4: Report of Indigo-MusesC3 — Data Link

```
Run 5: Statistics of Indigo-MusesC3

Start at: 2019-03-27 18:32:09
End at: 2019-03-27 18:32:39
Local clock offset: -0.08 ms
Remote clock offset: -0.365 ms


# Below is generated by plot.py at 2019-03-27 19:48:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 557.11 Mbit/s
95th percentile per-packet one-way delay: 75.536 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 557.11 Mbit/s
95th percentile per-packet one-way delay: 75.536 ms
Loss rate: 0.32%
```
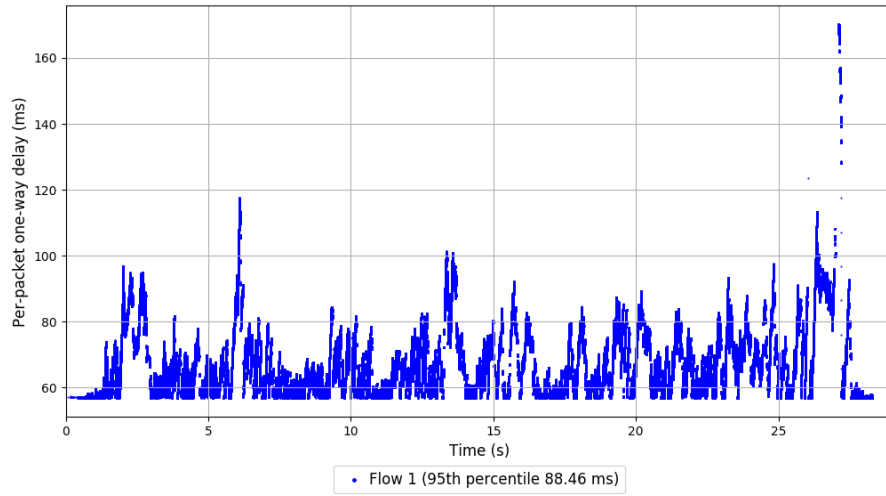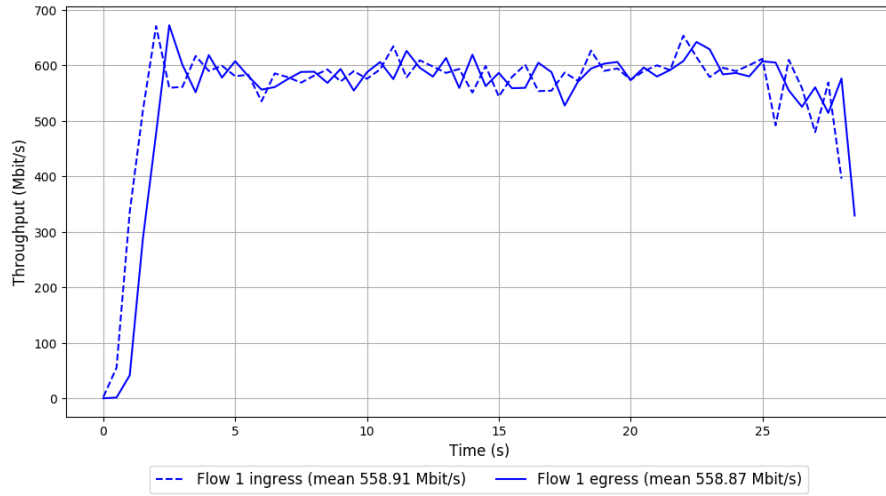
Run 5: Report of Indigo-MusesC3 — Data Link

74

```
Run 1: Statistics of Indigo-MusesC5

Start at: 2019-03-27 16:06:44
End at: 2019-03-27 16:07:14
Local clock offset: -0.189 ms
Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2019-03-27 19:48:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 548.98 Mbit/s
95th percentile per-packet one-way delay: 95.096 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 548.98 Mbit/s
95th percentile per-packet one-way delay: 95.096 ms
Loss rate: 0.43%
```
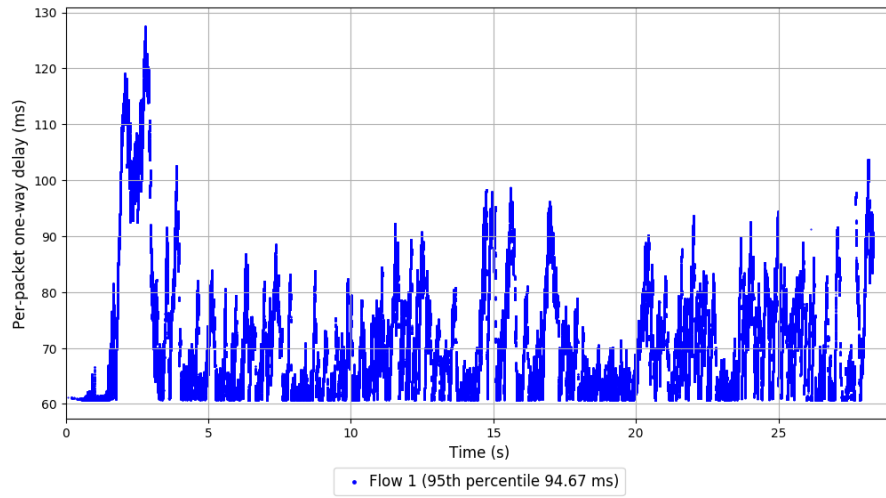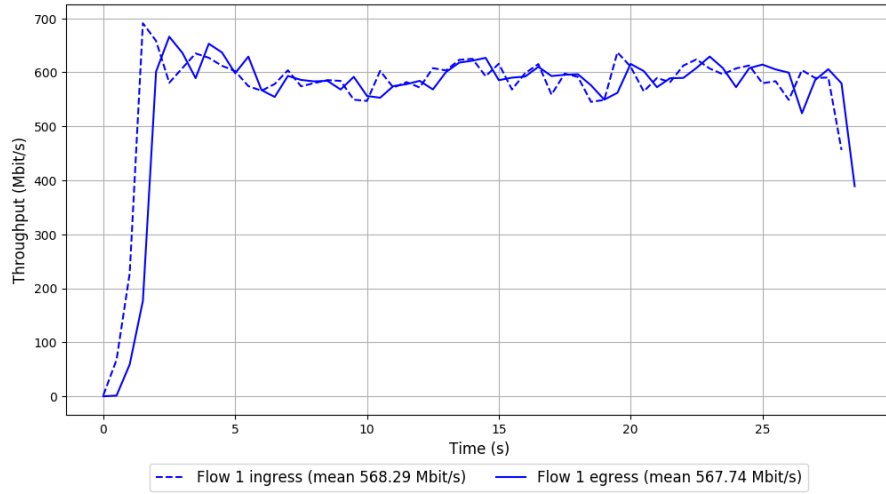
Run 1: Report of Indigo-MusesC5 — Data Link

Flow 1 ingress (mean 549.14 Mbit/s)   Flow 1 egress (mean 548.98 Mbit/s)

Flow 1 (95th percentile 95.10 ms)

```
Run 2: Statistics of Indigo-MusesC5

Start at: 2019-03-27 16:38:29
End at: 2019-03-27 16:38:59
Local clock offset: -0.167 ms
Remote clock offset: 0.299 ms


# Below is generated by plot.py at 2019-03-27 19:51:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 558.87 Mbit/s
95th percentile per-packet one-way delay: 88.458 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 558.87 Mbit/s
95th percentile per-packet one-way delay: 88.458 ms
Loss rate: 0.42%
```
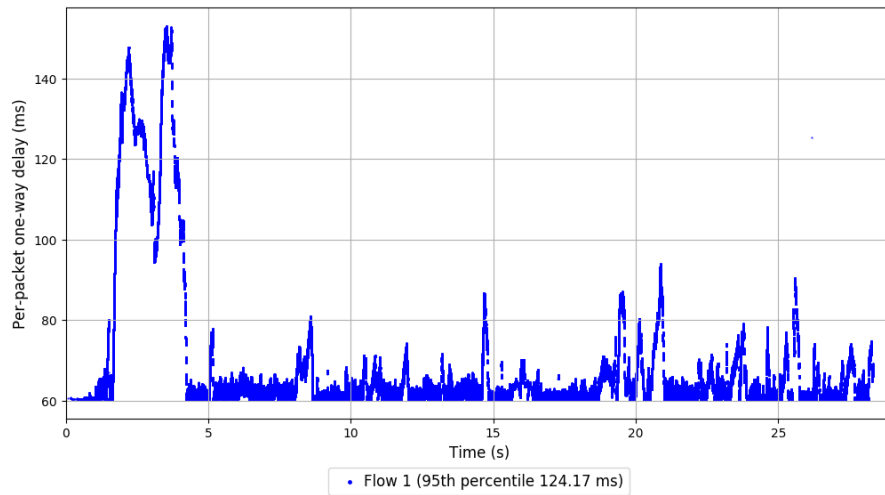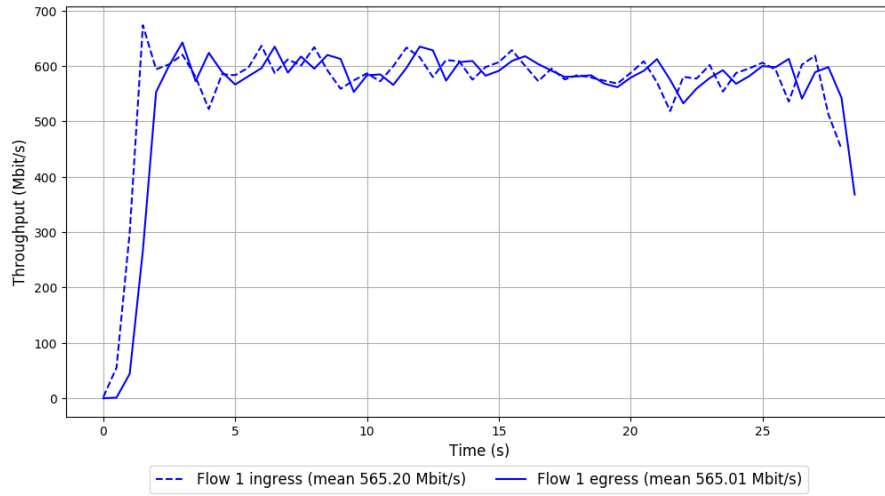
Run 2: Report of Indigo-MusesC5 — Data Link

```
Run 3: Statistics of Indigo-MusesC5

Start at: 2019-03-27 17:10:49
End at: 2019-03-27 17:11:19
Local clock offset: 0.267 ms
Remote clock offset: 0.233 ms


# Below is generated by plot.py at 2019-03-27 19:52:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 567.74 Mbit/s
95th percentile per-packet one-way delay: 94.669 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 567.74 Mbit/s
95th percentile per-packet one-way delay: 94.669 ms
Loss rate: 0.51%
```
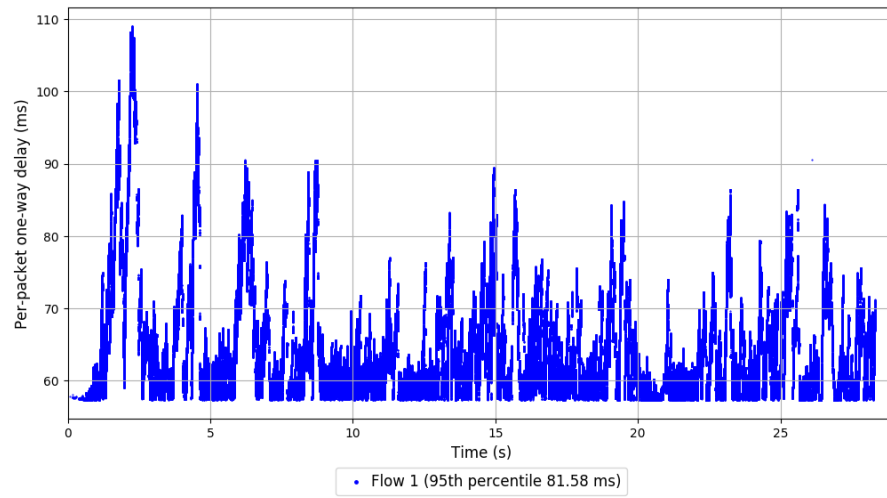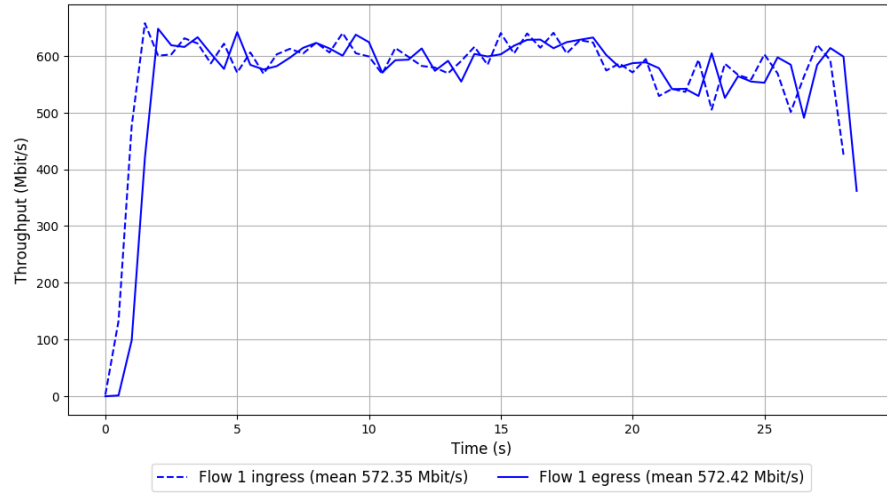
Run 3: Report of Indigo-MusesC5 — Data Link

```
Run 4: Statistics of Indigo-MusesC5

Start at: 2019-03-27 17:41:26
End at: 2019-03-27 17:41:56
Local clock offset: -0.516 ms
Remote clock offset: 0.375 ms


# Below is generated by plot.py at 2019-03-27 19:58:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 565.01 Mbit/s
95th percentile per-packet one-way delay: 124.171 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 565.01 Mbit/s
95th percentile per-packet one-way delay: 124.171 ms
Loss rate: 0.45%
```
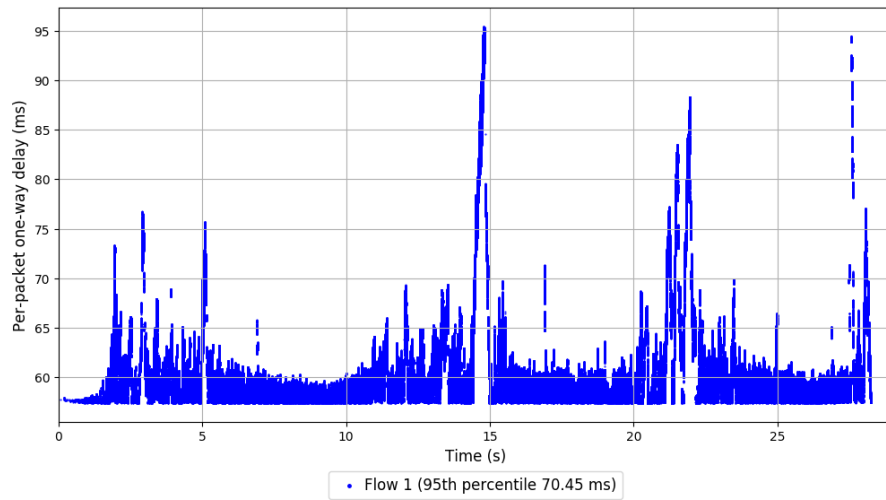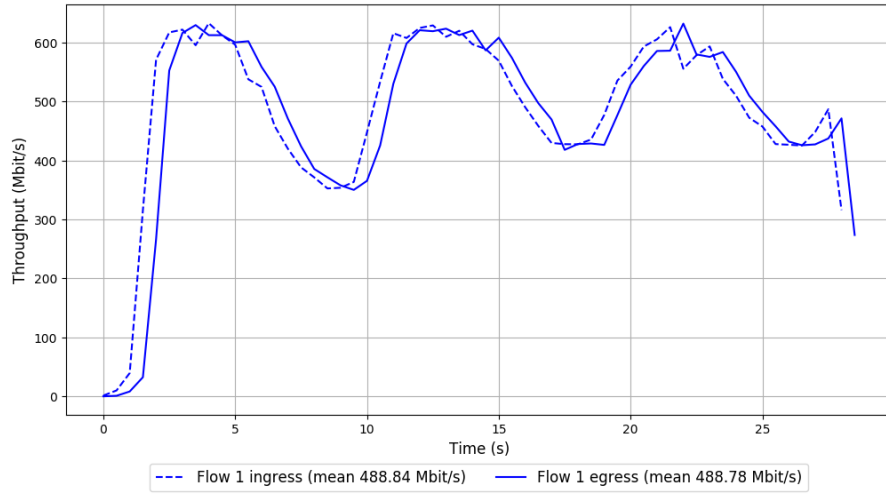
Run 4: Report of Indigo-MusesC5 — Data Link

Flow 1 ingress (mean 565.20 Mbit/s)　　Flow 1 egress (mean 565.01 Mbit/s)

Flow 1 (95th percentile 124.17 ms)

```
Run 5: Statistics of Indigo-MusesC5

Start at: 2019-03-27 18:12:13
End at: 2019-03-27 18:12:43
Local clock offset: 0.237 ms
Remote clock offset: 0.128 ms

# Below is generated by plot.py at 2019-03-27 19:58:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 572.42 Mbit/s
95th percentile per-packet one-way delay: 81.579 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 572.42 Mbit/s
95th percentile per-packet one-way delay: 81.579 ms
Loss rate: 0.39%
```
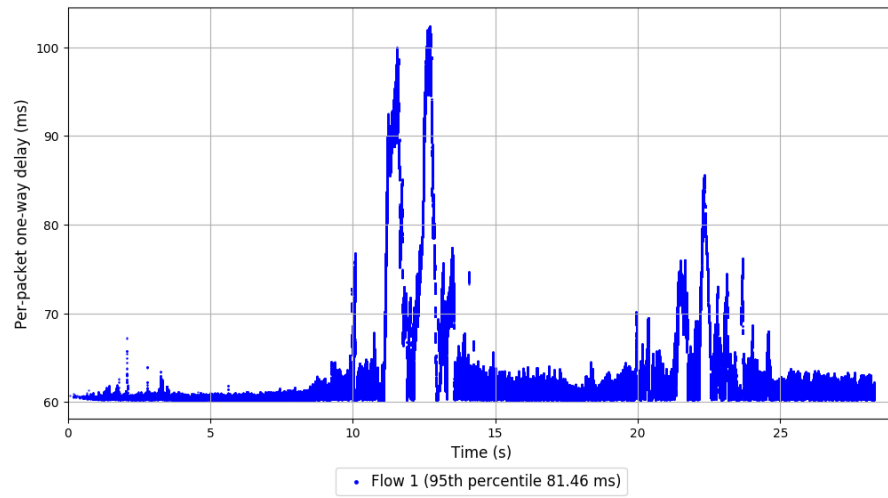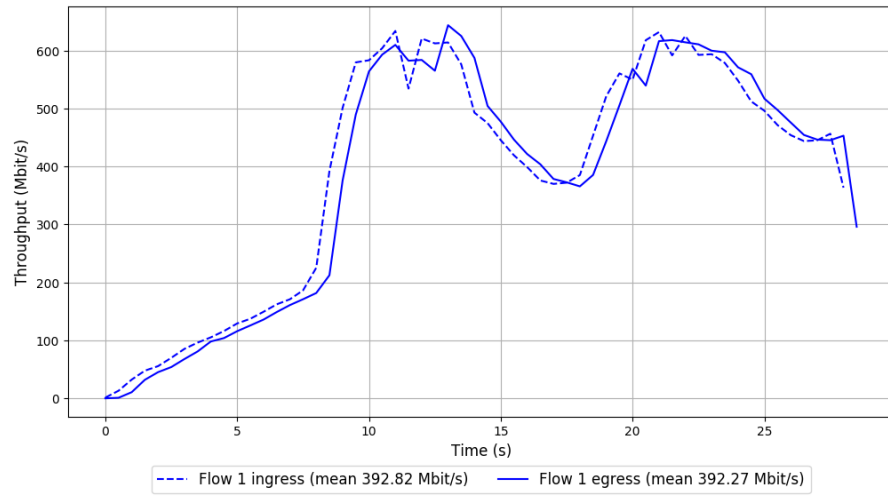
Run 5: Report of Indigo-MusesC5 — Data Link

Flow 1 ingress (mean 572.35 Mbit/s)   Flow 1 egress (mean 572.42 Mbit/s)

Flow 1 (95th percentile 81.58 ms)

```
Run 1: Statistics of Indigo-MusesD

Start at: 2019-03-27 16:05:12
End at: 2019-03-27 16:05:42
Local clock offset: 0.107 ms
Remote clock offset: -0.037 ms


# Below is generated by plot.py at 2019-03-27 19:58:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 488.78 Mbit/s
95th percentile per-packet one-way delay: 70.449 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 488.78 Mbit/s
95th percentile per-packet one-way delay: 70.449 ms
Loss rate: 0.42%
```
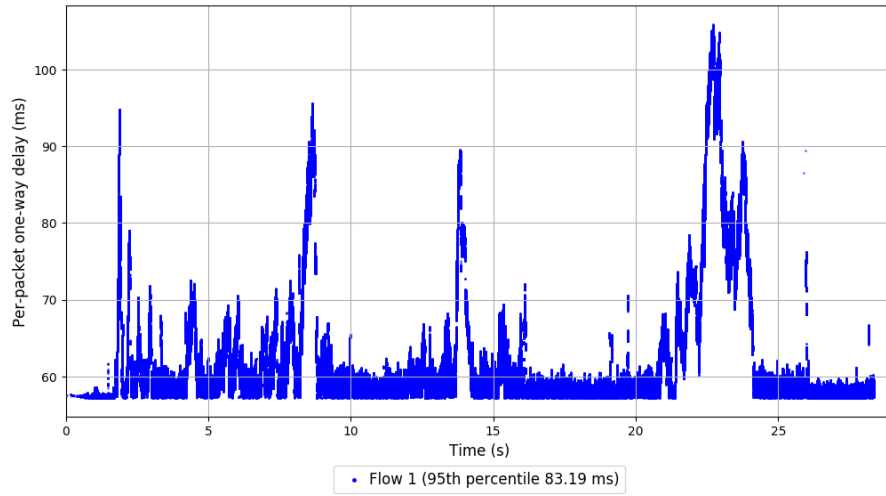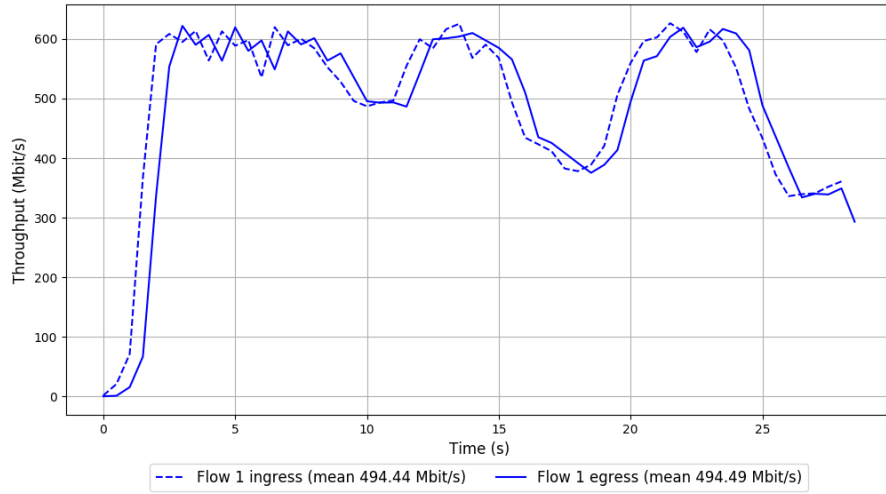
Run 1: Report of Indigo-MusesD — Data Link

```
Run 2: Statistics of Indigo-MusesD

Start at: 2019-03-27 16:36:59
End at: 2019-03-27 16:37:29
Local clock offset: 0.074 ms
Remote clock offset: 0.156 ms


# Below is generated by plot.py at 2019-03-27 19:58:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 392.27 Mbit/s
95th percentile per-packet one-way delay: 81.460 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 392.27 Mbit/s
95th percentile per-packet one-way delay: 81.460 ms
Loss rate: 0.56%
```
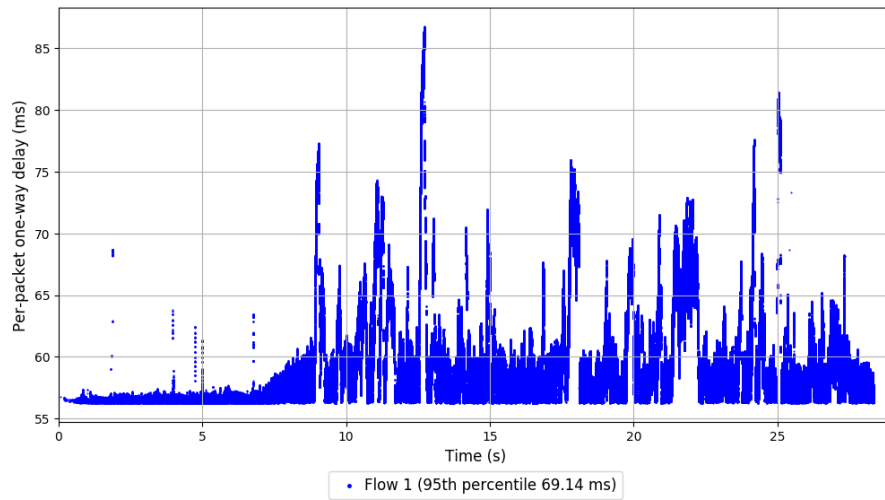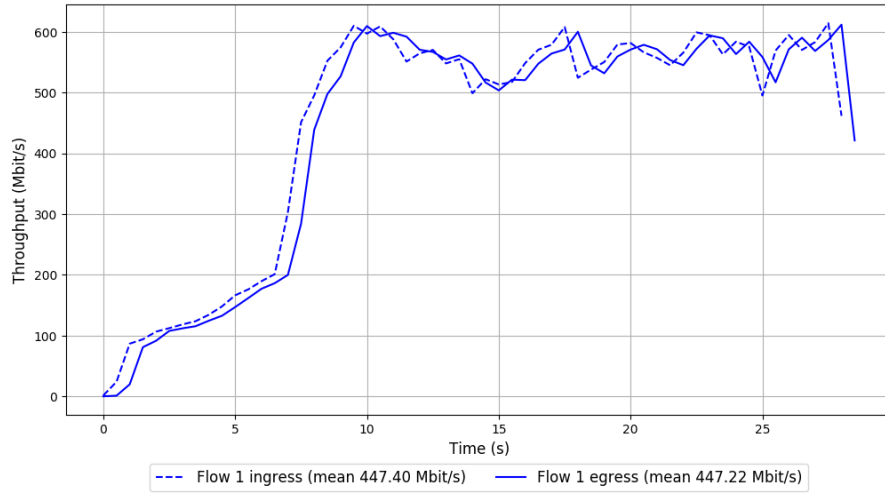
Run 2: Report of Indigo-MusesD — Data Link

```
Run 3: Statistics of Indigo-MusesD

Start at: 2019-03-27 17:09:13
End at: 2019-03-27 17:09:43
Local clock offset: 0.002 ms
Remote clock offset: 0.304 ms


# Below is generated by plot.py at 2019-03-27 19:58:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 494.49 Mbit/s
95th percentile per-packet one-way delay: 83.190 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 494.49 Mbit/s
95th percentile per-packet one-way delay: 83.190 ms
Loss rate: 0.39%
```
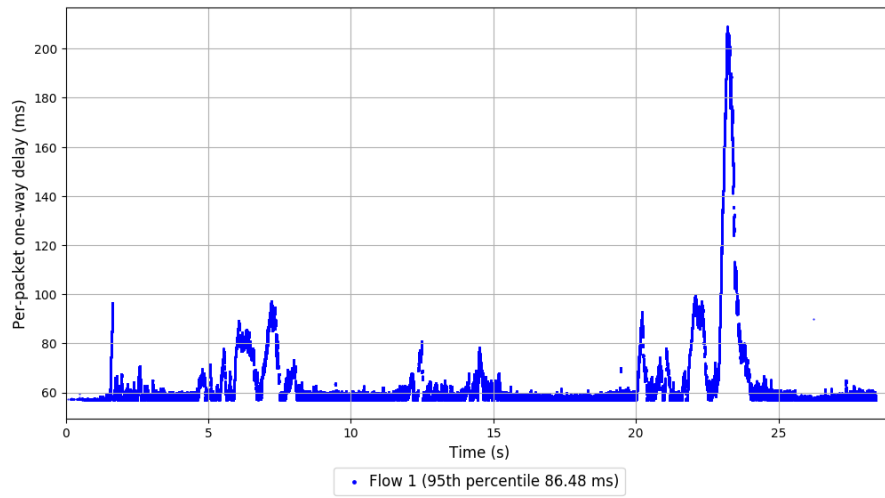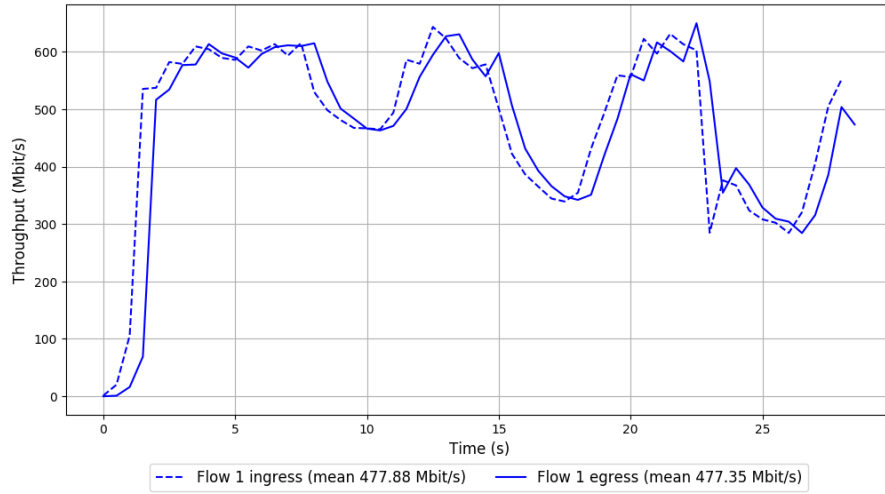
Run 3: Report of Indigo-MusesD — Data Link

Flow 1 ingress (mean 494.44 Mbit/s)   Flow 1 egress (mean 494.49 Mbit/s)

Flow 1 (95th percentile 83.19 ms)

```
Run 4: Statistics of Indigo-MusesD

Start at: 2019-03-27 17:39:54
End at: 2019-03-27 17:40:24
Local clock offset: -0.399 ms
Remote clock offset: 1.05 ms


# Below is generated by plot.py at 2019-03-27 19:58:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 447.22 Mbit/s
95th percentile per-packet one-way delay: 69.135 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 447.22 Mbit/s
95th percentile per-packet one-way delay: 69.135 ms
Loss rate: 0.44%
```
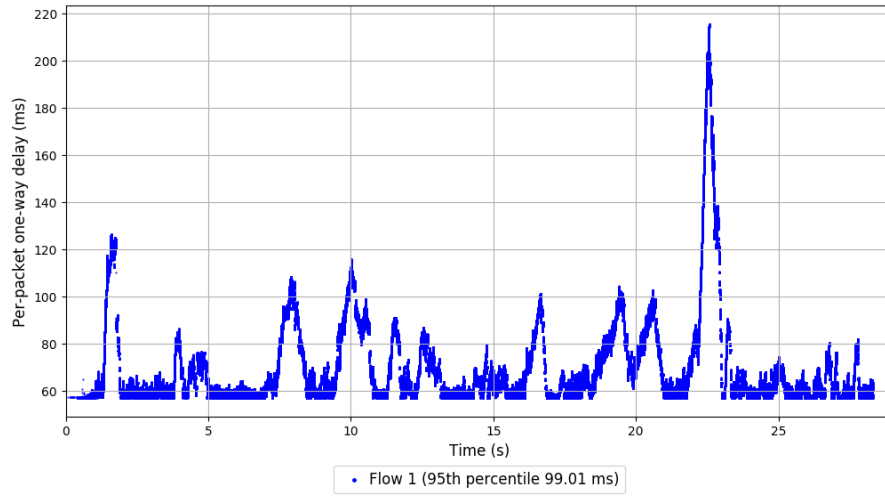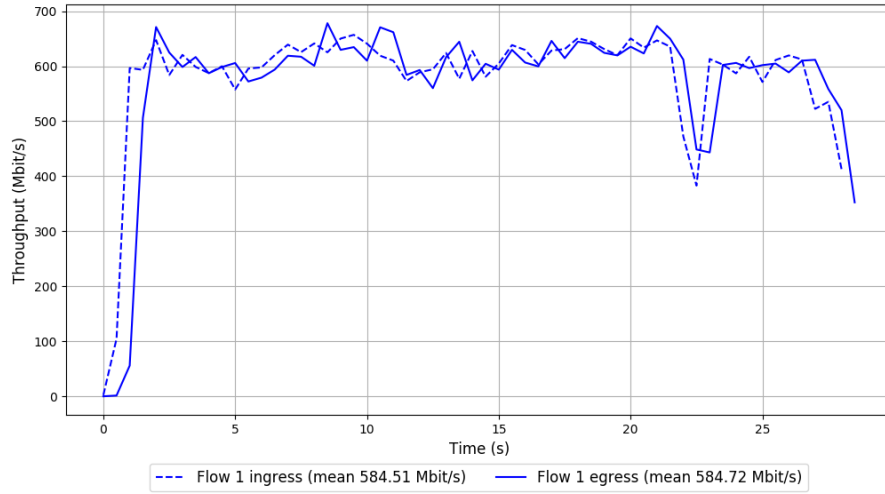
Run 4: Report of Indigo-MusesD — Data Link

```
Run 5: Statistics of Indigo-MusesD

Start at: 2019-03-27 18:10:42
End at: 2019-03-27 18:11:12
Local clock offset: -0.102 ms
Remote clock offset: 0.391 ms


# Below is generated by plot.py at 2019-03-27 20:01:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 477.35 Mbit/s
95th percentile per-packet one-way delay: 86.476 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 477.35 Mbit/s
95th percentile per-packet one-way delay: 86.476 ms
Loss rate: 0.52%
```
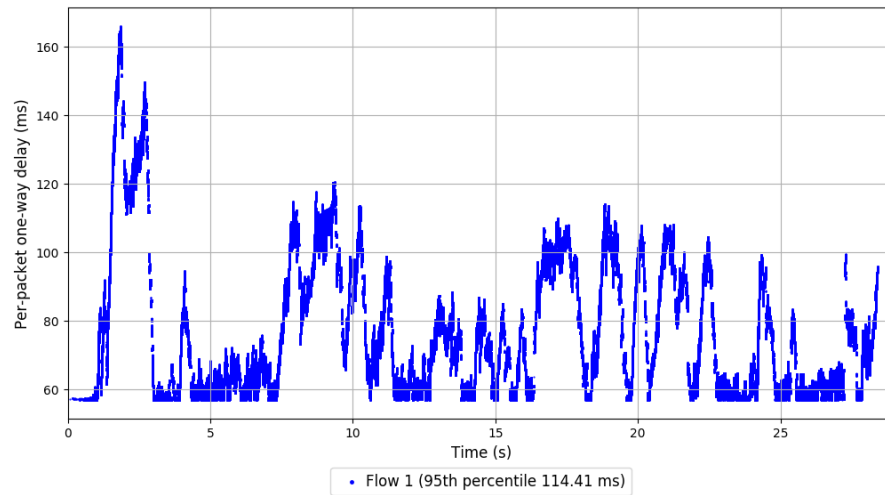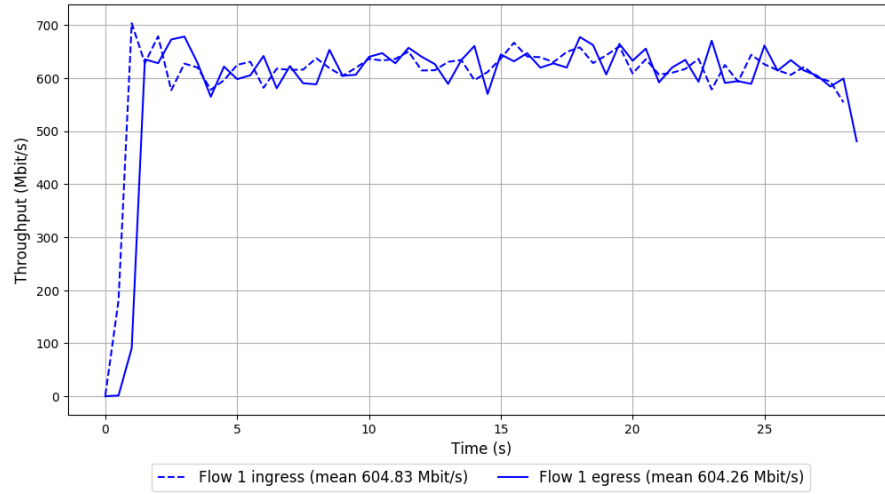
Run 5: Report of Indigo-MusesD — Data Link

```
Run 1: Statistics of Indigo-MusesT

Start at: 2019-03-27 16:18:19
End at: 2019-03-27 16:18:49
Local clock offset: -0.389 ms
Remote clock offset: -0.277 ms


# Below is generated by plot.py at 2019-03-27 20:04:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 584.72 Mbit/s
95th percentile per-packet one-way delay: 99.007 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 584.72 Mbit/s
95th percentile per-packet one-way delay: 99.007 ms
Loss rate: 0.37%
```
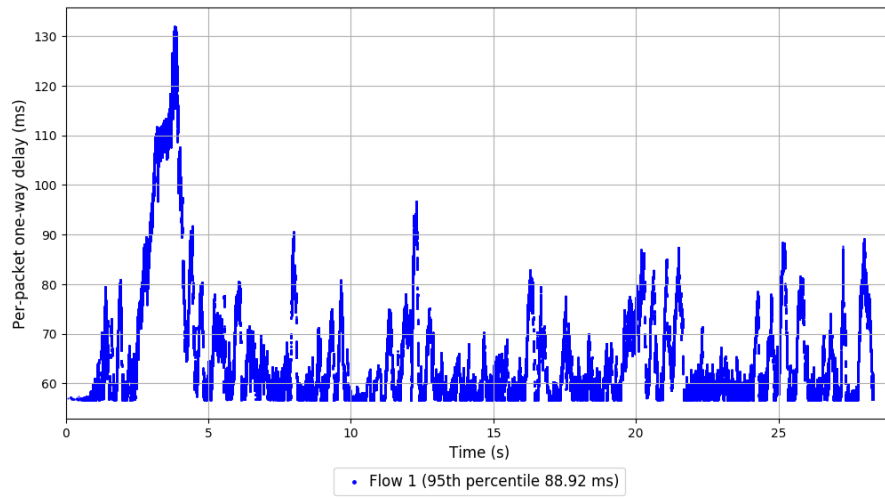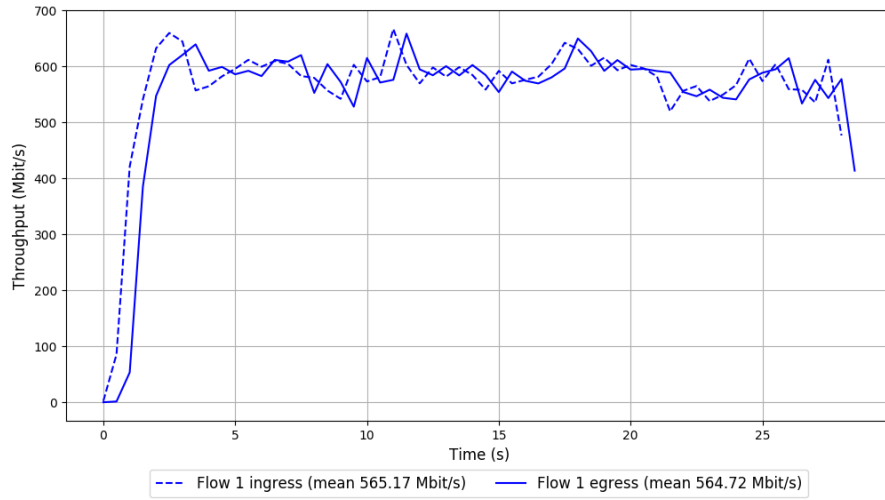
Run 1: Report of Indigo-MusesT — Data Link

96

```
Run 2: Statistics of Indigo-MusesT

Start at: 2019-03-27 16:50:03
End at: 2019-03-27 16:50:33
Local clock offset: -0.212 ms
Remote clock offset: 0.151 ms


# Below is generated by plot.py at 2019-03-27 20:07:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 604.26 Mbit/s
95th percentile per-packet one-way delay: 114.408 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 604.26 Mbit/s
95th percentile per-packet one-way delay: 114.408 ms
Loss rate: 0.49%
```
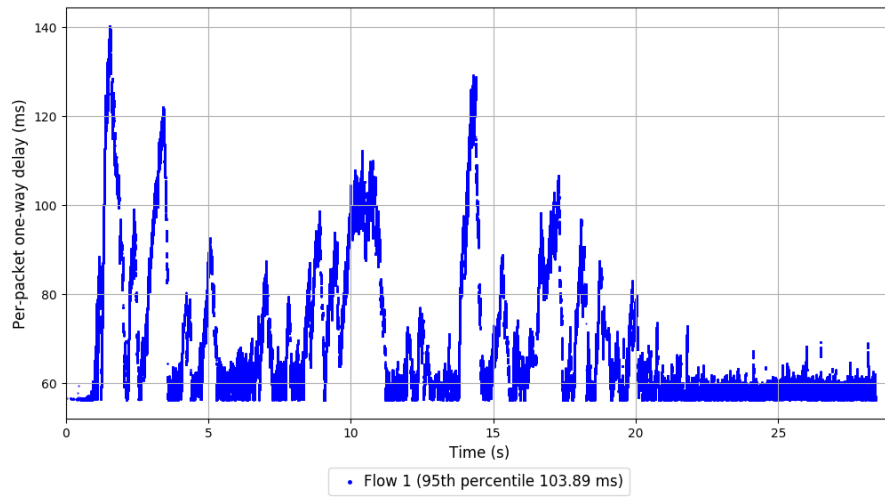
Run 2: Report of Indigo-MusesT — Data Link

```
Run 3: Statistics of Indigo-MusesT

Start at: 2019-03-27 17:22:09
End at: 2019-03-27 17:22:39
Local clock offset: -0.529 ms
Remote clock offset: 0.434 ms


# Below is generated by plot.py at 2019-03-27 20:07:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 564.72 Mbit/s
95th percentile per-packet one-way delay: 88.925 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 564.72 Mbit/s
95th percentile per-packet one-way delay: 88.925 ms
Loss rate: 0.49%
```
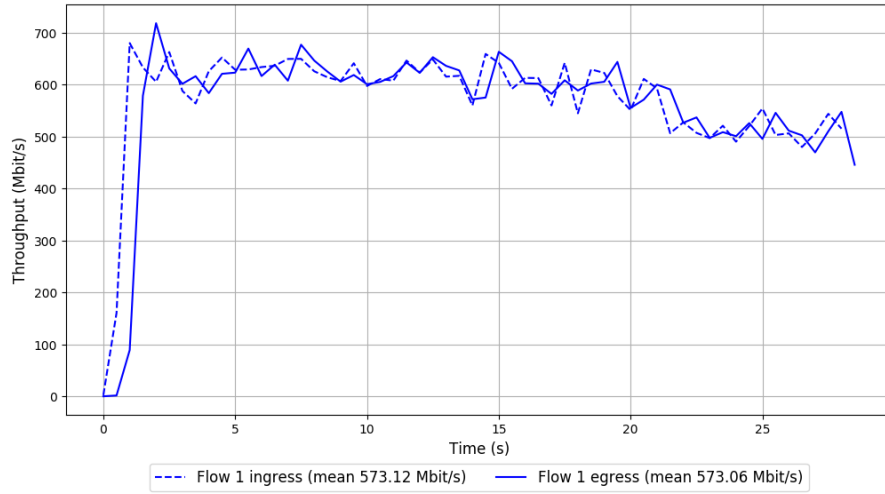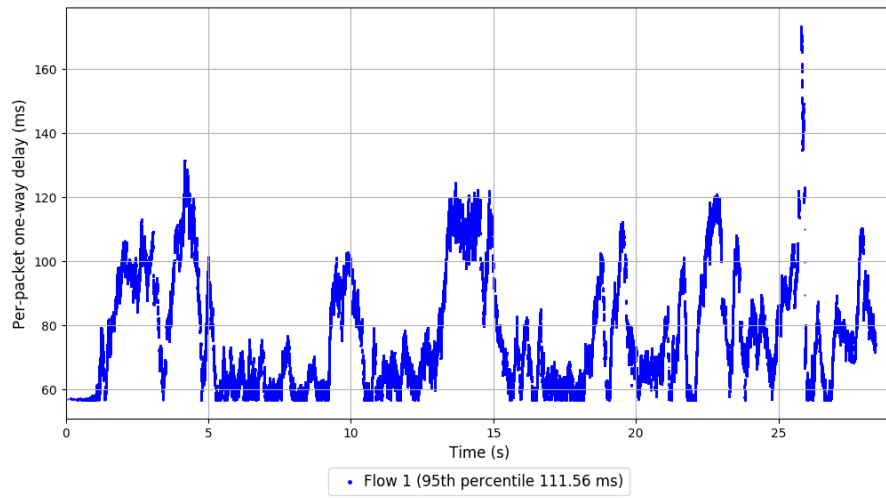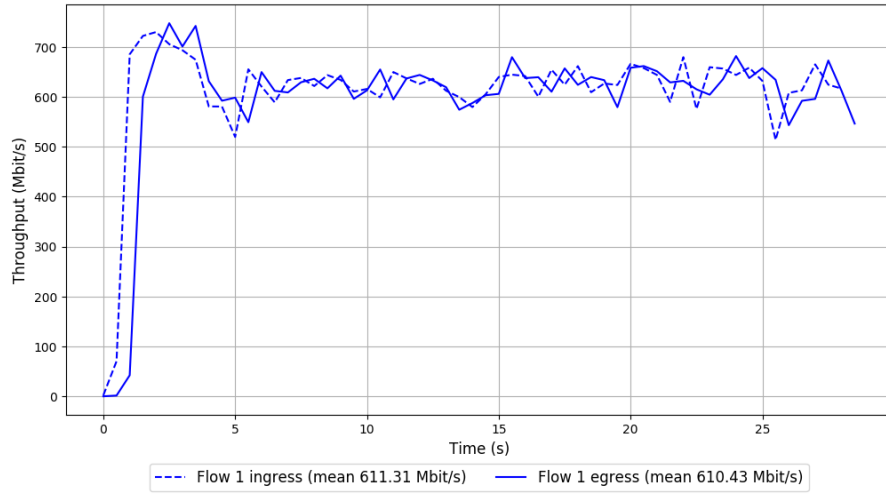
Run 3: Report of Indigo-MusesT — Data Link

Flow 1 ingress (mean 565.17 Mbit/s)   Flow 1 egress (mean 564.72 Mbit/s)

• Flow 1 (95th percentile 88.92 ms)

```
Run 4: Statistics of Indigo-MusesT

Start at: 2019-03-27 17:52:49
End at: 2019-03-27 17:53:19
Local clock offset: -0.294 ms
Remote clock offset: 1.042 ms


# Below is generated by plot.py at 2019-03-27 20:08:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 573.06 Mbit/s
95th percentile per-packet one-way delay: 103.895 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 573.06 Mbit/s
95th percentile per-packet one-way delay: 103.895 ms
Loss rate: 0.42%
```
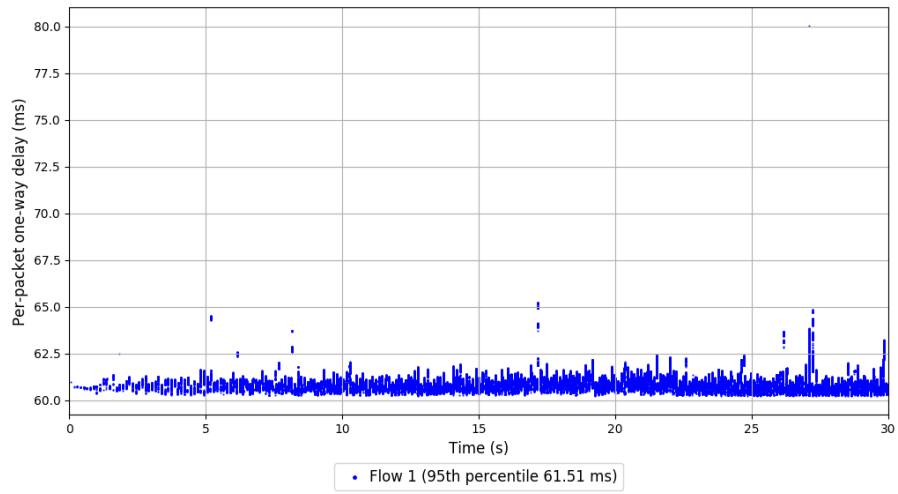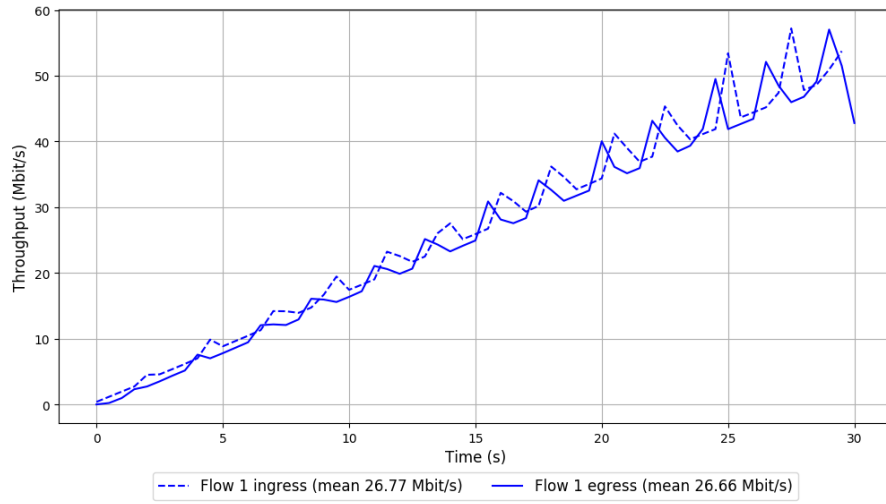
Run 4: Report of Indigo-MusesT — Data Link

```
Run 5: Statistics of Indigo-MusesT

Start at: 2019-03-27 18:23:53
End at: 2019-03-27 18:24:23
Local clock offset: -0.366 ms
Remote clock offset: 0.02 ms


# Below is generated by plot.py at 2019-03-27 20:09:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 610.43 Mbit/s
95th percentile per-packet one-way delay: 111.559 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 610.43 Mbit/s
95th percentile per-packet one-way delay: 111.559 ms
Loss rate: 0.54%
```
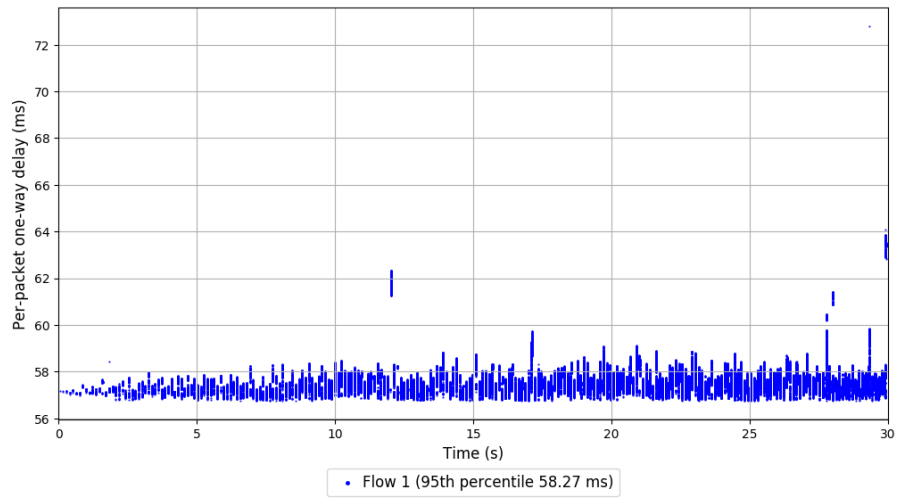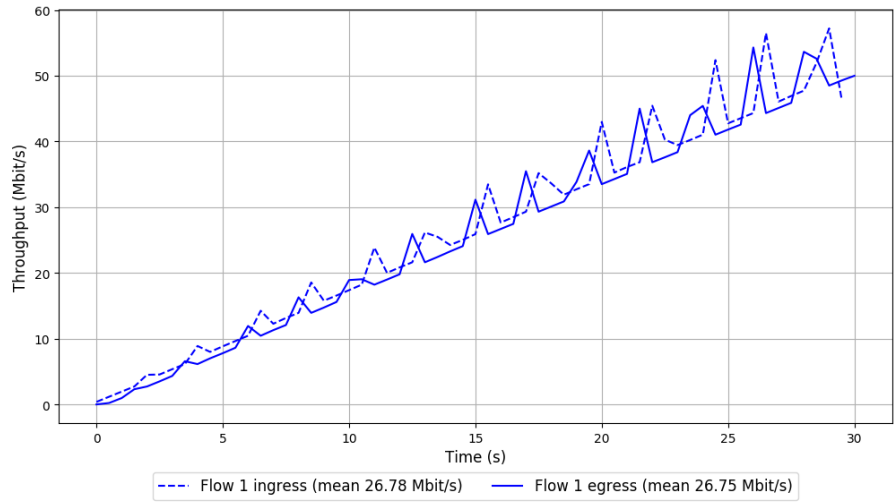
Run 5: Report of Indigo-MusesT — Data Link

Flow 1 ingress (mean 611.31 Mbit/s)   Flow 1 egress (mean 610.43 Mbit/s)

Flow 1 (95th percentile 111.56 ms)

```
Run 1: Statistics of LEDBAT

Start at: 2019-03-27 16:24:43
End at: 2019-03-27 16:25:13
Local clock offset: -0.221 ms
Remote clock offset: -0.124 ms

# Below is generated by plot.py at 2019-03-27 20:09:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.66 Mbit/s
95th percentile per-packet one-way delay: 61.513 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 26.66 Mbit/s
95th percentile per-packet one-way delay: 61.513 ms
Loss rate: 0.78%
```
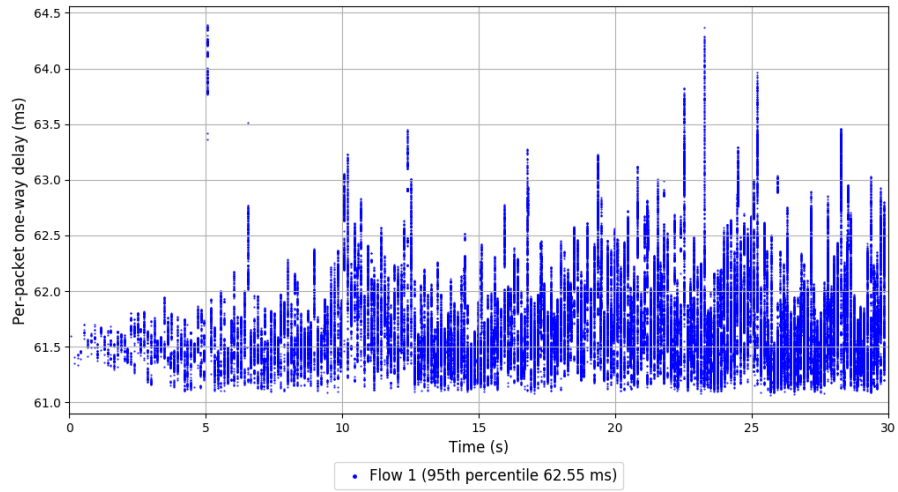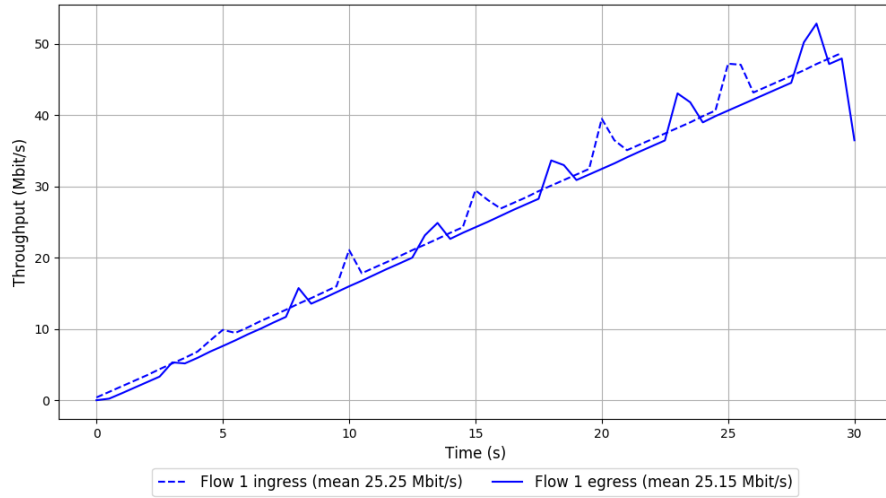
Run 1: Report of LEDBAT — Data Link

```
Run 2: Statistics of LEDBAT

Start at: 2019-03-27 16:56:51
End at: 2019-03-27 16:57:21
Local clock offset: -0.414 ms
Remote clock offset: 0.093 ms


# Below is generated by plot.py at 2019-03-27 20:09:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.75 Mbit/s
95th percentile per-packet one-way delay: 58.266 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 26.75 Mbit/s
95th percentile per-packet one-way delay: 58.266 ms
Loss rate: 0.48%
```
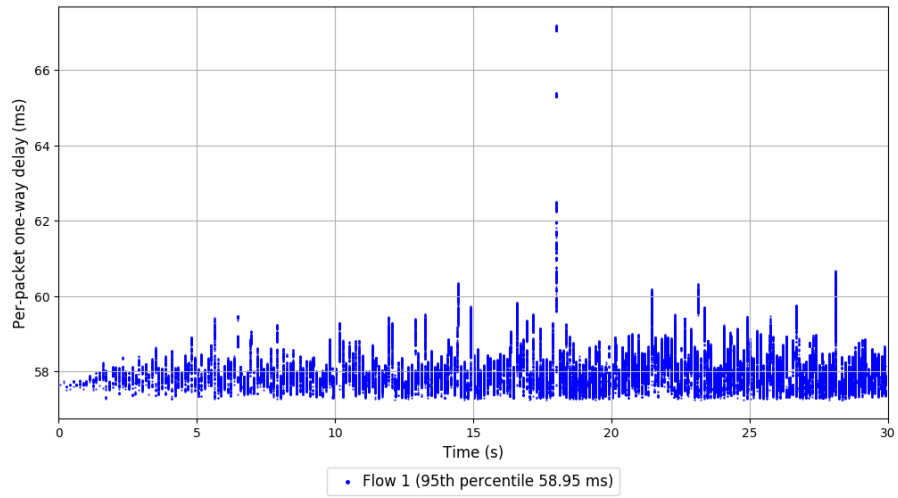
Run 2: Report of LEDBAT — Data Link

```
Run 3: Statistics of LEDBAT

Start at: 2019-03-27 17:28:17
End at: 2019-03-27 17:28:47
Local clock offset: 0.295 ms
Remote clock offset: 0.137 ms


# Below is generated by plot.py at 2019-03-27 20:09:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 25.15 Mbit/s
95th percentile per-packet one-way delay: 62.548 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 25.15 Mbit/s
95th percentile per-packet one-way delay: 62.548 ms
Loss rate: 0.81%
```
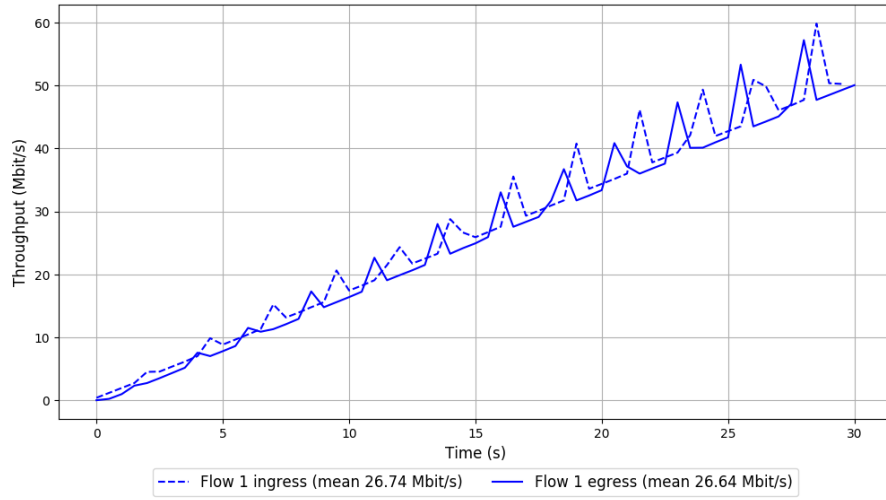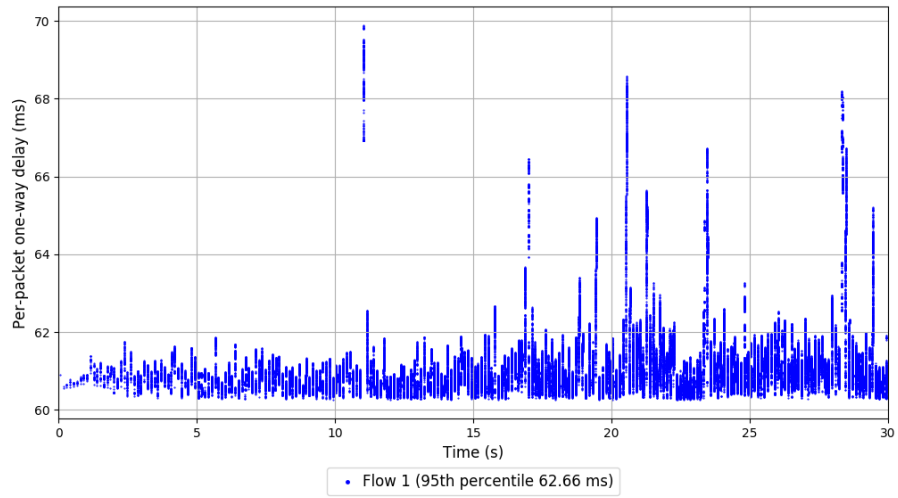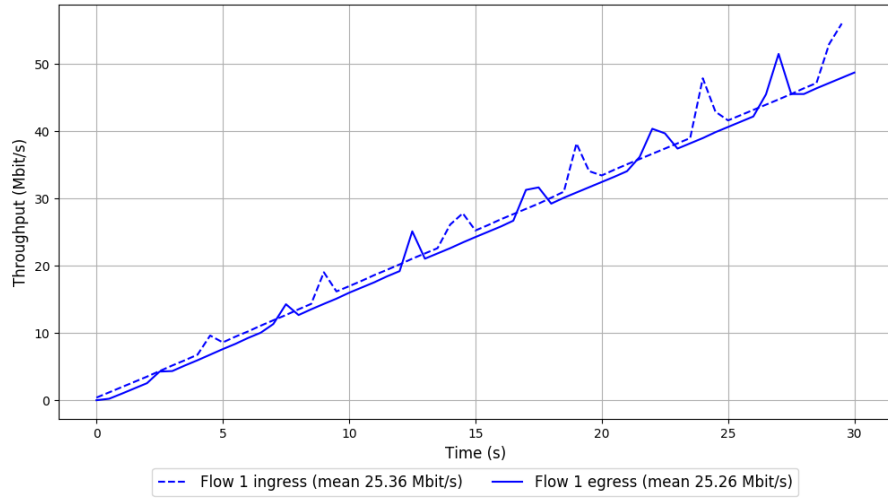
Run 3: Report of LEDBAT — Data Link

```
Run 4: Statistics of LEDBAT

Start at: 2019-03-27 17:59:07
End at: 2019-03-27 17:59:37
Local clock offset: 0.053 ms
Remote clock offset: 0.32 ms


# Below is generated by plot.py at 2019-03-27 20:09:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.64 Mbit/s
95th percentile per-packet one-way delay: 58.945 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 26.64 Mbit/s
95th percentile per-packet one-way delay: 58.945 ms
Loss rate: 0.79%
```
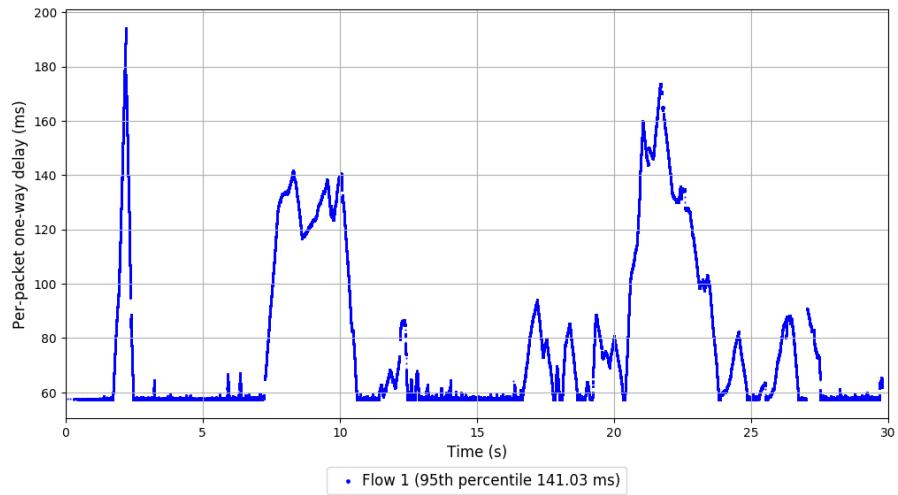
Run 4: Report of LEDBAT — Data Link

```
Run 5: Statistics of LEDBAT

Start at: 2019-03-27 18:30:57
End at: 2019-03-27 18:31:27
Local clock offset: -0.167 ms
Remote clock offset: -0.166 ms


# Below is generated by plot.py at 2019-03-27 20:09:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 25.26 Mbit/s
95th percentile per-packet one-way delay: 62.660 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 25.26 Mbit/s
95th percentile per-packet one-way delay: 62.660 ms
Loss rate: 0.81%
```
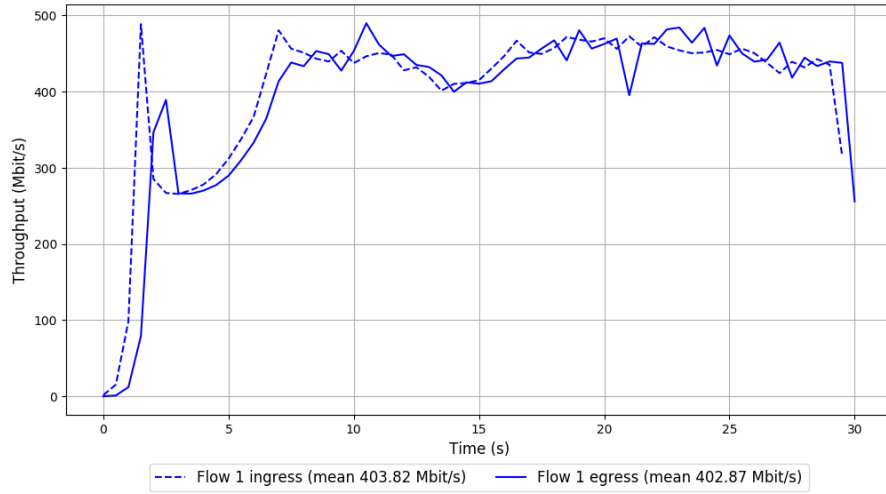
Run 5: Report of LEDBAT — Data Link

```
Run 1: Statistics of PCC-Allegro

Start at: 2019-03-27 16:15:06
End at: 2019-03-27 16:15:36
Local clock offset: -0.215 ms
Remote clock offset: -0.589 ms

# Below is generated by plot.py at 2019-03-27 20:15:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 402.87 Mbit/s
95th percentile per-packet one-way delay: 141.035 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 402.87 Mbit/s
95th percentile per-packet one-way delay: 141.035 ms
Loss rate: 0.62%
```
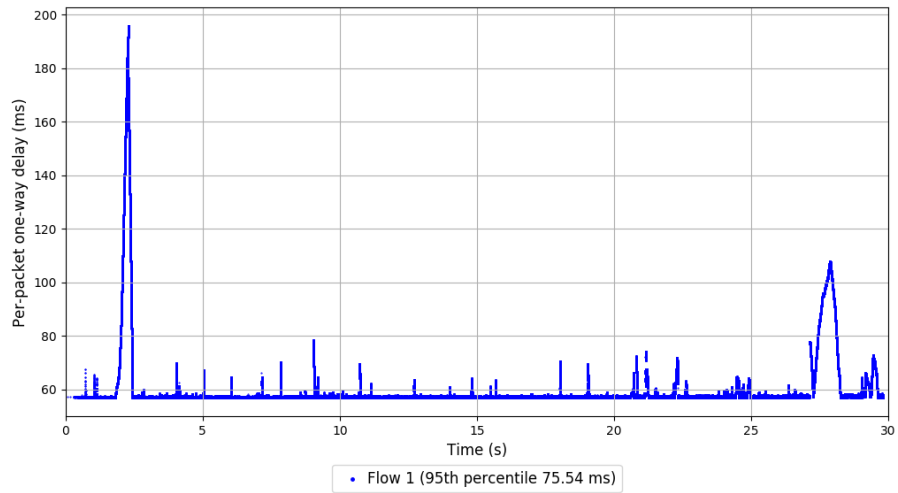
Run 1: Report of PCC-Allegro — Data Link

```
Run 2: Statistics of PCC-Allegro

Start at: 2019-03-27 16:46:51
End at: 2019-03-27 16:47:21
Local clock offset: -0.373 ms
Remote clock offset: 0.197 ms


# Below is generated by plot.py at 2019-03-27 20:15:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 321.16 Mbit/s
95th percentile per-packet one-way delay: 75.542 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 321.16 Mbit/s
95th percentile per-packet one-way delay: 75.542 ms
Loss rate: 0.63%
```
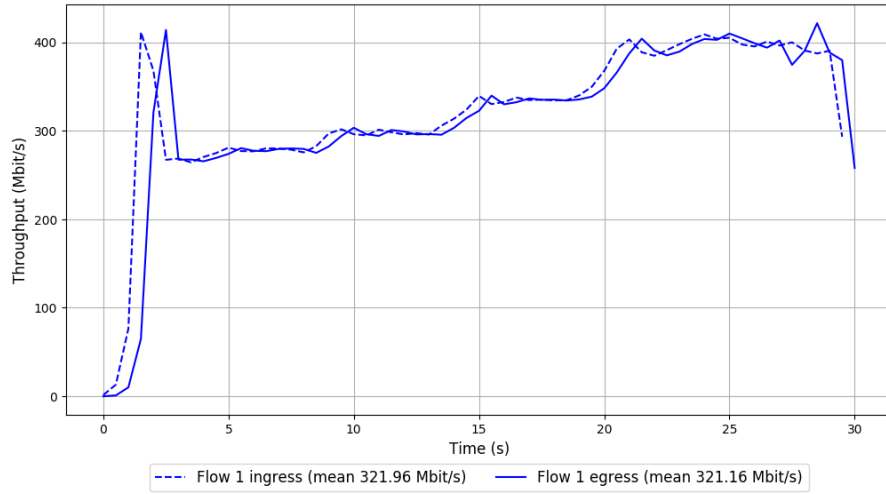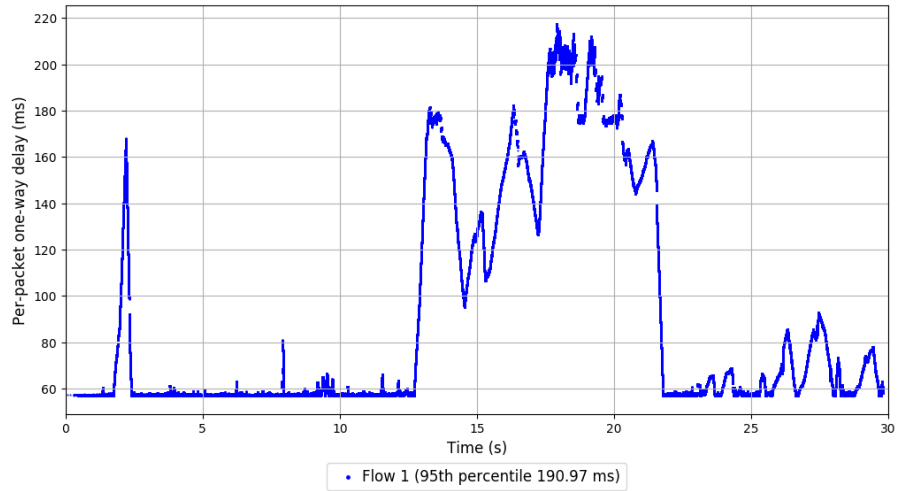
Run 2: Report of PCC-Allegro — Data Link

```
Run 3: Statistics of PCC-Allegro

Start at: 2019-03-27 17:19:04
End at: 2019-03-27 17:19:34
Local clock offset: -0.33 ms
Remote clock offset: 0.284 ms


# Below is generated by plot.py at 2019-03-27 20:15:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 378.16 Mbit/s
95th percentile per-packet one-way delay: 190.968 ms
Loss rate: 2.37%
-- Flow 1:
Average throughput: 378.16 Mbit/s
95th percentile per-packet one-way delay: 190.968 ms
Loss rate: 2.37%
```
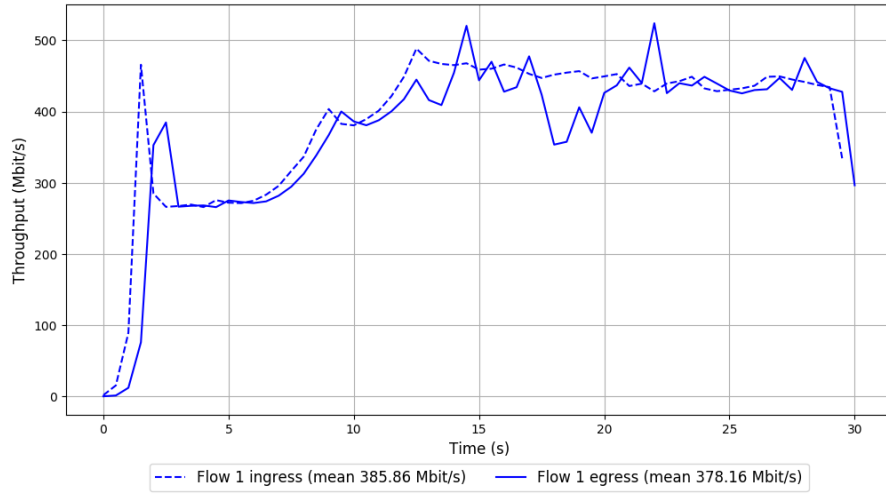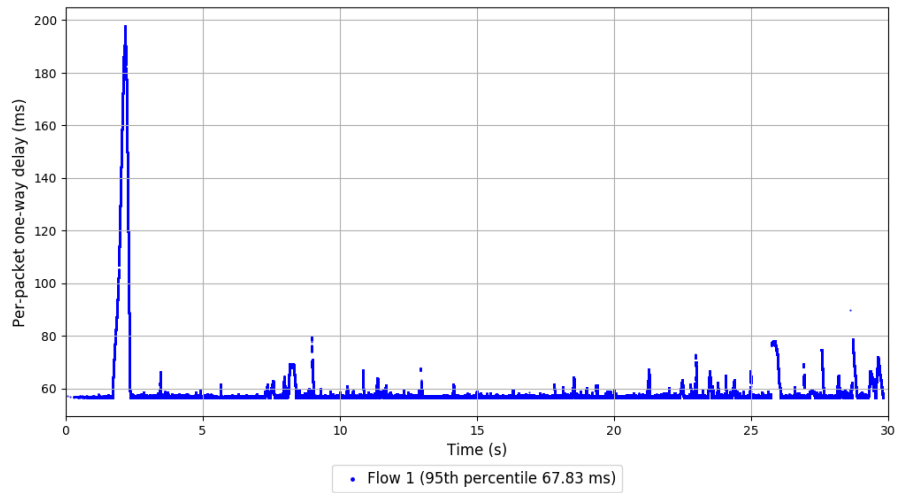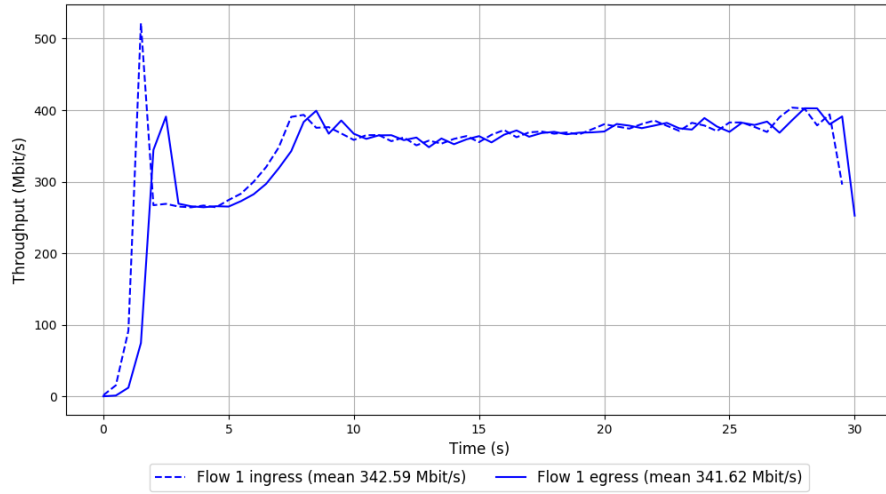
Run 3: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 385.86 Mbit/s)   Flow 1 egress (mean 378.16 Mbit/s)

• Flow 1 (95th percentile 190.97 ms)

```
Run 4: Statistics of PCC-Allegro

Start at: 2019-03-27 17:49:50
End at: 2019-03-27 17:50:20
Local clock offset: -0.576 ms
Remote clock offset: 0.417 ms


# Below is generated by plot.py at 2019-03-27 20:18:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 341.62 Mbit/s
95th percentile per-packet one-way delay: 67.829 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 341.62 Mbit/s
95th percentile per-packet one-way delay: 67.829 ms
Loss rate: 0.67%
```
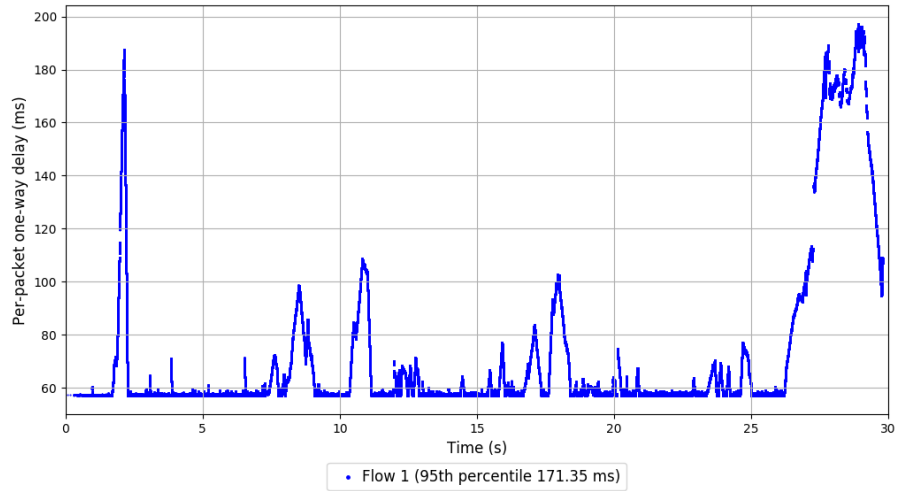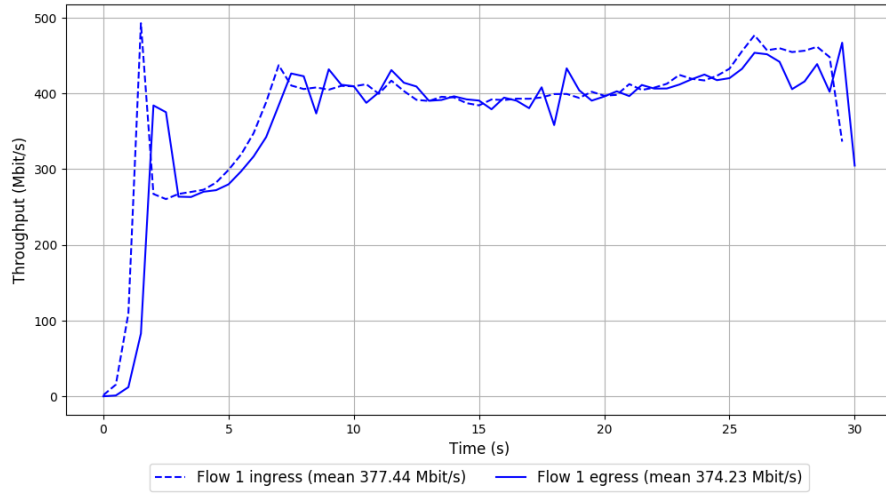
Run 4: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 342.59 Mbit/s) ——— Flow 1 egress (mean 341.62 Mbit/s)

• Flow 1 (95th percentile 67.83 ms)

```
Run 5: Statistics of PCC-Allegro

Start at: 2019-03-27 18:20:32
End at: 2019-03-27 18:21:02
Local clock offset: -0.115 ms
Remote clock offset: -0.18 ms


# Below is generated by plot.py at 2019-03-27 20:22:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 374.23 Mbit/s
95th percentile per-packet one-way delay: 171.353 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 374.23 Mbit/s
95th percentile per-packet one-way delay: 171.353 ms
Loss rate: 1.24%
```
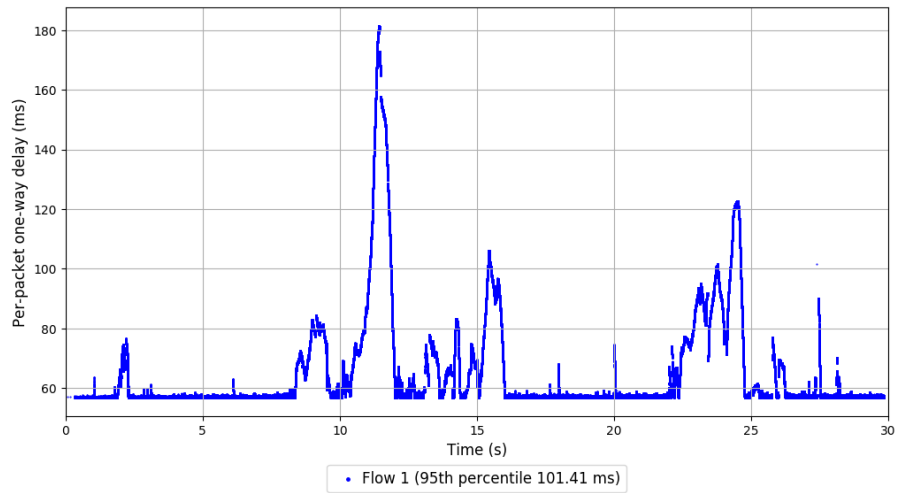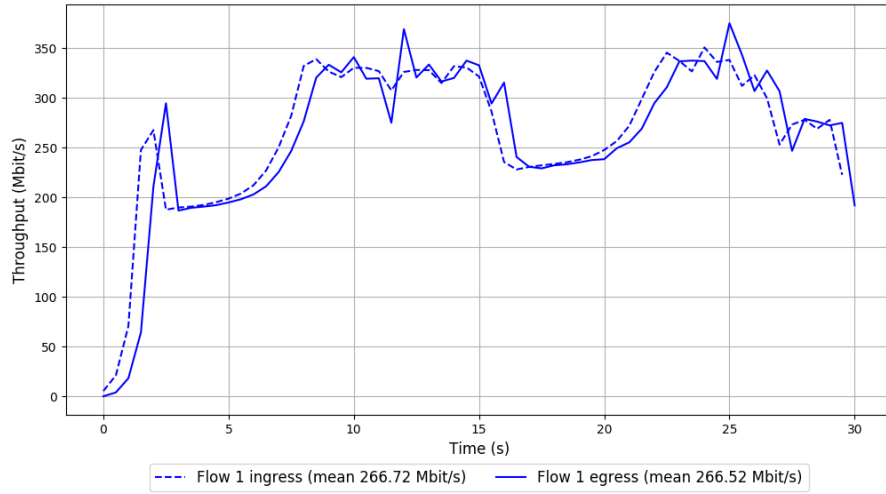
Run 5: Report of PCC-Allegro — Data Link

```
Run 1: Statistics of PCC-Expr

Start at: 2019-03-27 16:20:00
End at: 2019-03-27 16:20:30
Local clock offset: -0.211 ms
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2019-03-27 20:22:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 266.52 Mbit/s
95th percentile per-packet one-way delay: 101.409 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 266.52 Mbit/s
95th percentile per-packet one-way delay: 101.409 ms
Loss rate: 0.46%
```
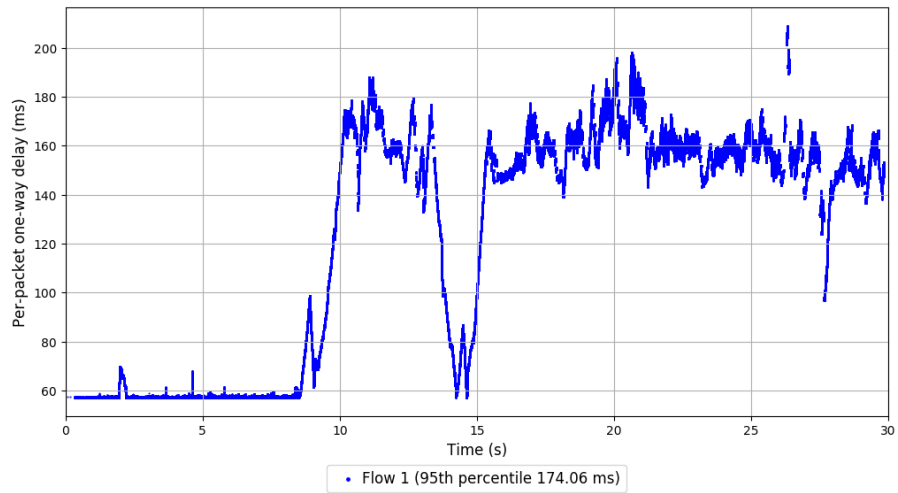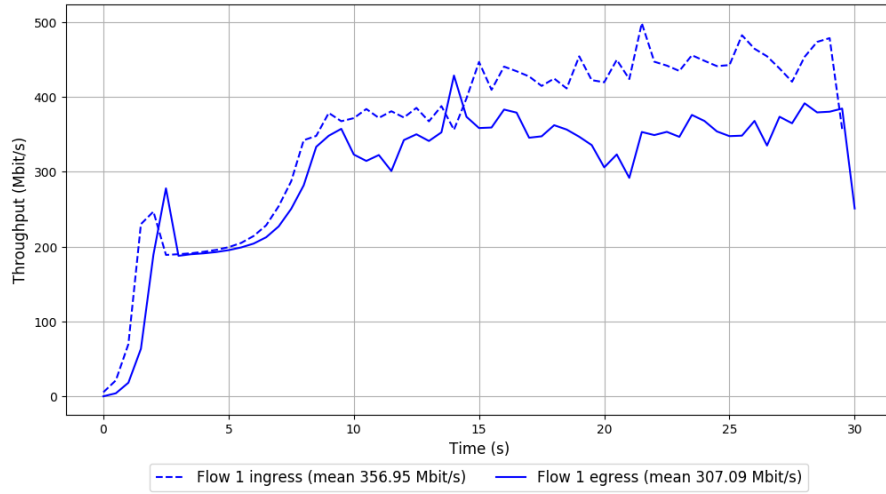
Run 1: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 266.72 Mbit/s) — Flow 1 egress (mean 266.52 Mbit/s)

• Flow 1 (95th percentile 101.41 ms)

```
Run 2: Statistics of PCC-Expr

Start at: 2019-03-27 16:51:45
End at: 2019-03-27 16:52:15
Local clock offset: -0.234 ms
Remote clock offset: 0.212 ms


# Below is generated by plot.py at 2019-03-27 20:22:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 307.09 Mbit/s
95th percentile per-packet one-way delay: 174.060 ms
Loss rate: 14.30%
-- Flow 1:
Average throughput: 307.09 Mbit/s
95th percentile per-packet one-way delay: 174.060 ms
Loss rate: 14.30%
```
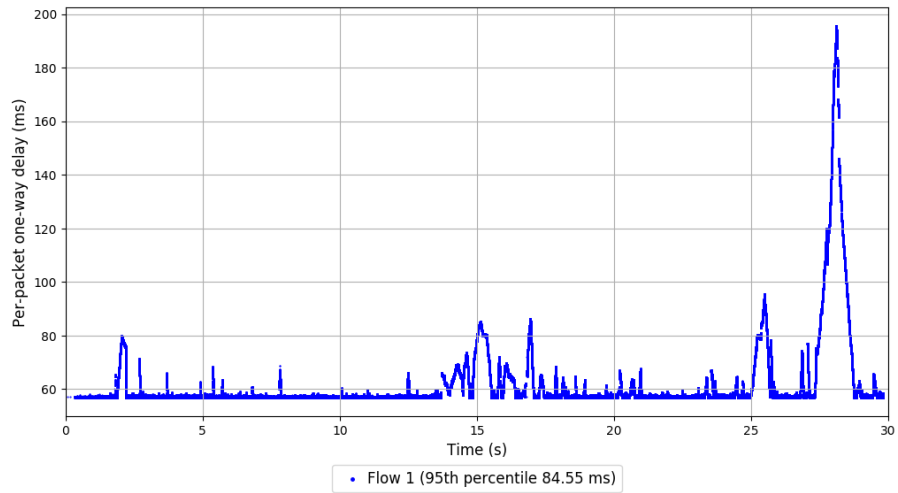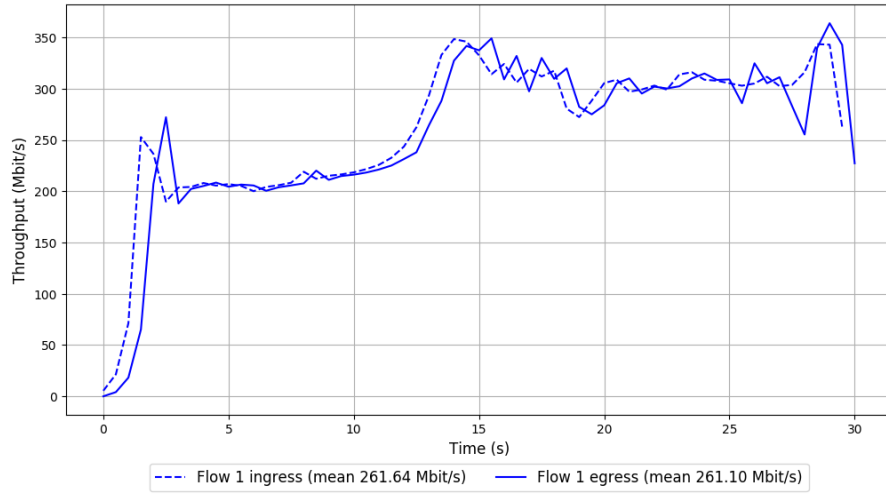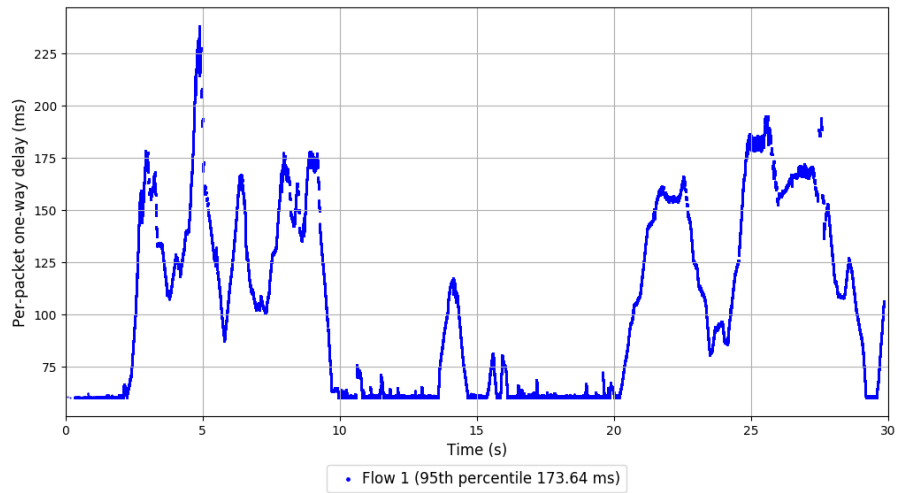
Run 2: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 356.95 Mbit/s) --- Flow 1 egress (mean 307.09 Mbit/s)

• Flow 1 (95th percentile 174.06 ms)

```
Run 3: Statistics of PCC-Expr

Start at: 2019-03-27 17:23:47
End at: 2019-03-27 17:24:17
Local clock offset: -0.316 ms
Remote clock offset: 0.216 ms

# Below is generated by plot.py at 2019-03-27 20:22:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 261.10 Mbit/s
95th percentile per-packet one-way delay: 84.551 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 261.10 Mbit/s
95th percentile per-packet one-way delay: 84.551 ms
Loss rate: 0.61%
```
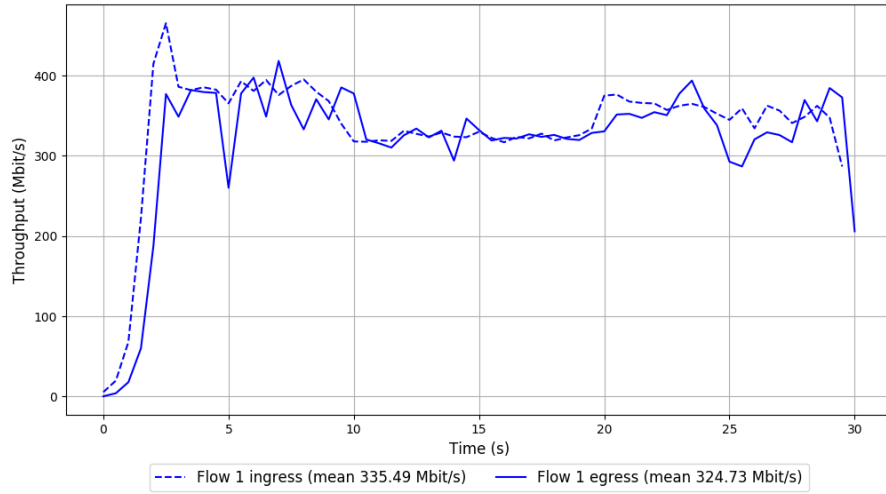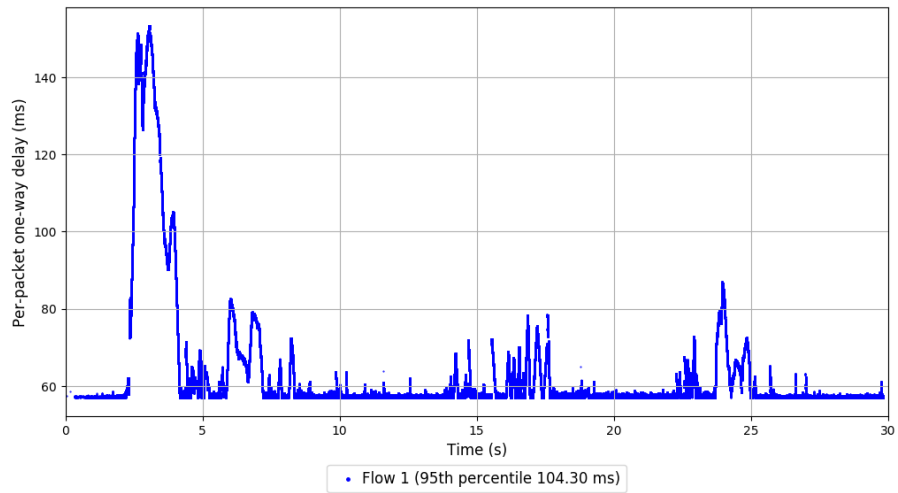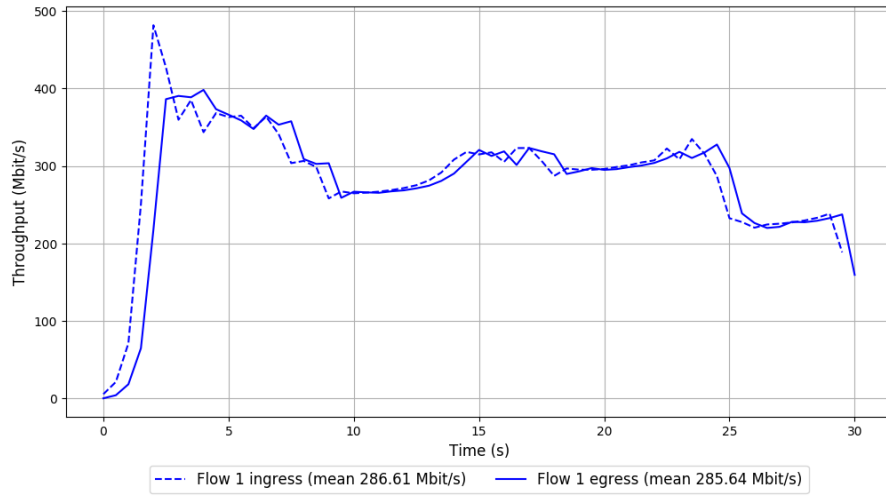
Run 3: Report of PCC-Expr — Data Link

```
Run 4: Statistics of PCC-Expr

Start at: 2019-03-27 17:54:24
End at: 2019-03-27 17:54:54
Local clock offset: -0.376 ms
Remote clock offset: 0.442 ms

# Below is generated by plot.py at 2019-03-27 20:26:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 324.73 Mbit/s
95th percentile per-packet one-way delay: 173.643 ms
Loss rate: 3.59%
-- Flow 1:
Average throughput: 324.73 Mbit/s
95th percentile per-packet one-way delay: 173.643 ms
Loss rate: 3.59%
```
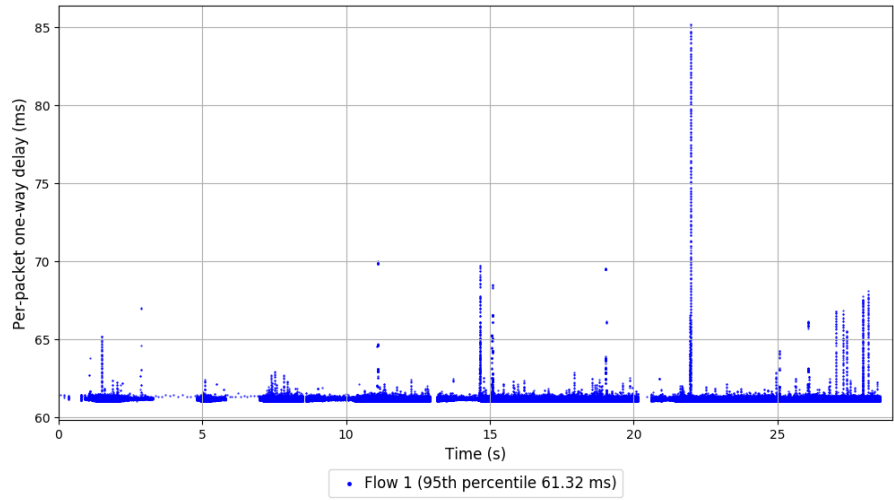
Run 4: Report of PCC-Expr — Data Link

```
Run 5: Statistics of PCC-Expr

Start at: 2019-03-27 18:25:38
End at: 2019-03-27 18:26:08
Local clock offset: -0.068 ms
Remote clock offset: -0.198 ms


# Below is generated by plot.py at 2019-03-27 20:27:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 285.64 Mbit/s
95th percentile per-packet one-way delay: 104.296 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 285.64 Mbit/s
95th percentile per-packet one-way delay: 104.296 ms
Loss rate: 0.72%
```
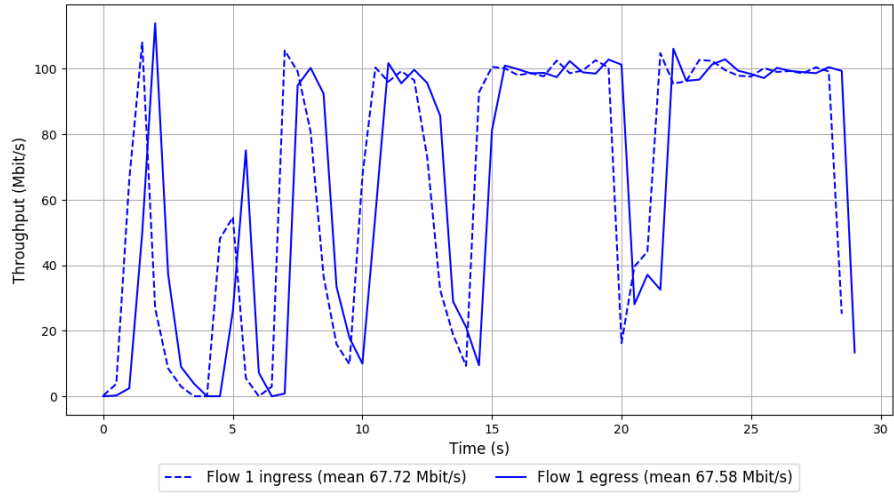
Run 5: Report of PCC-Expr — Data Link

```
Run 1: Statistics of QUIC Cubic

Start at: 2019-03-27 16:10:06
End at: 2019-03-27 16:10:36
Local clock offset: -0.24 ms
Remote clock offset: -1.009 ms


# Below is generated by plot.py at 2019-03-27 20:27:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.58 Mbit/s
95th percentile per-packet one-way delay: 61.317 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 67.58 Mbit/s
95th percentile per-packet one-way delay: 61.317 ms
Loss rate: 0.62%
```
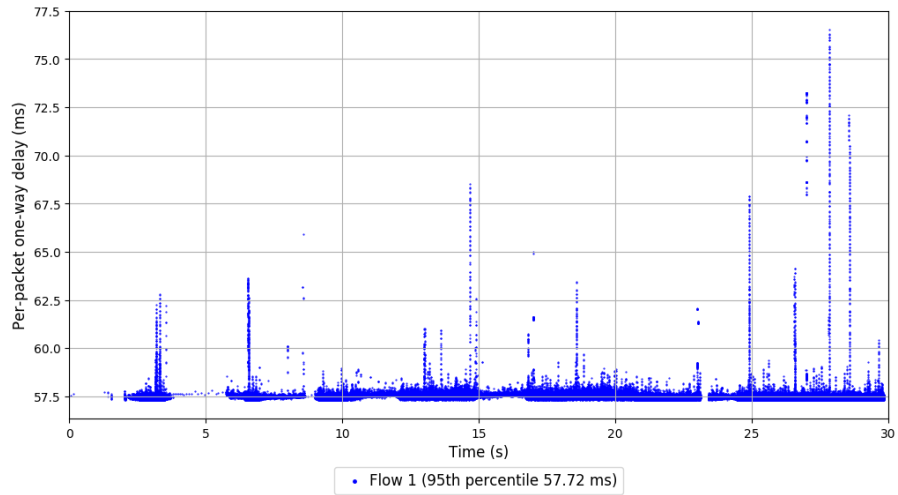
Run 1: Report of QUIC Cubic — Data Link

```
Run 2: Statistics of QUIC Cubic

Start at: 2019-03-27 16:41:56
End at: 2019-03-27 16:42:26
Local clock offset: 0.039 ms
Remote clock offset: 0.062 ms


# Below is generated by plot.py at 2019-03-27 20:27:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.45 Mbit/s
95th percentile per-packet one-way delay: 57.721 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 58.45 Mbit/s
95th percentile per-packet one-way delay: 57.721 ms
Loss rate: 0.64%
```
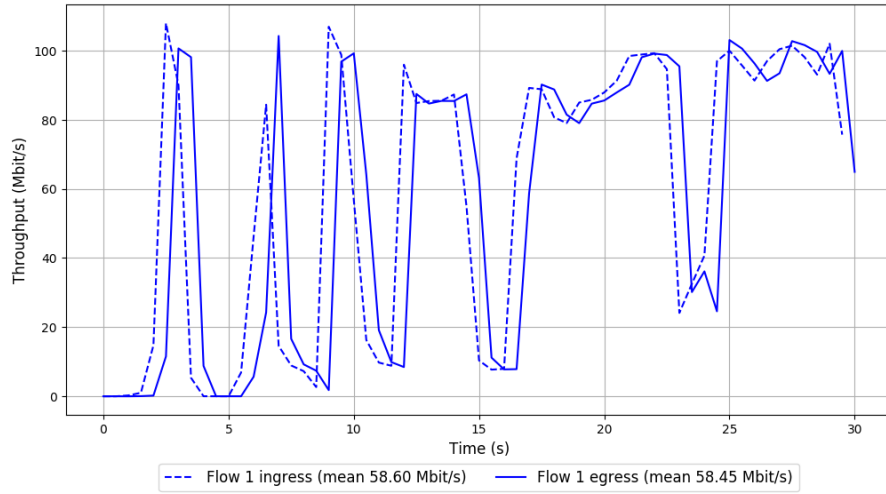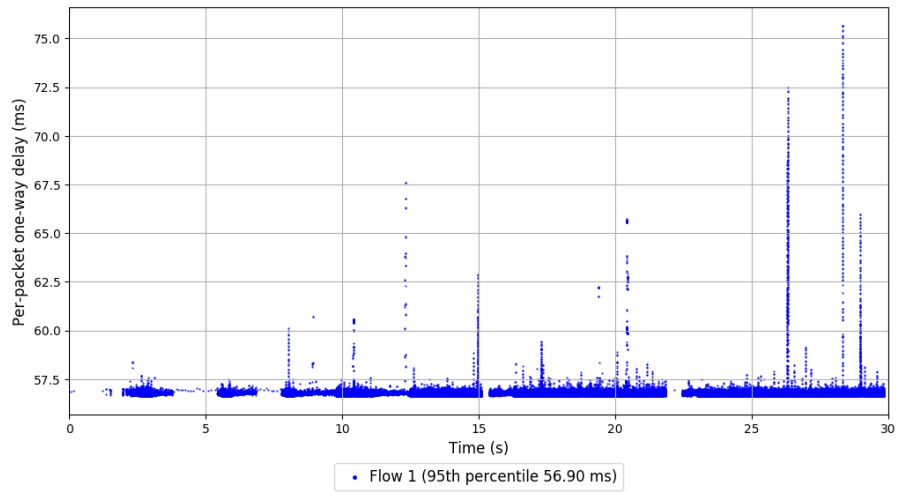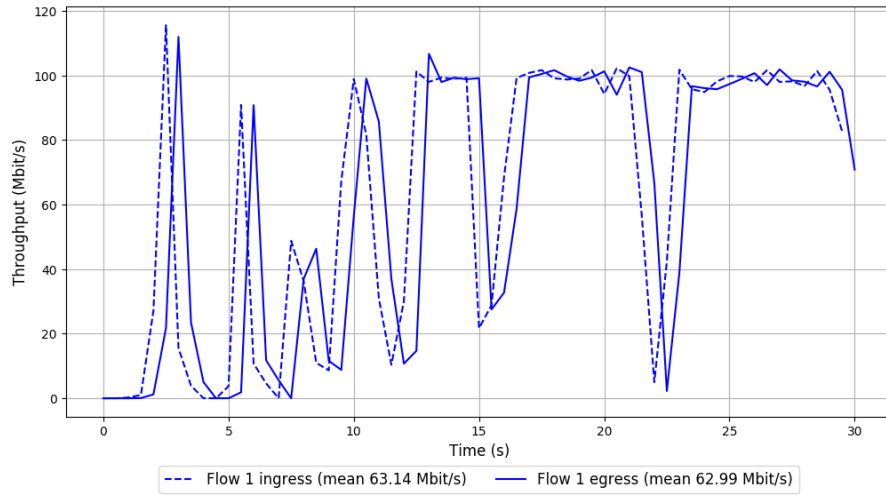
Run 2: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 58.60 Mbit/s) --- Flow 1 egress (mean 58.45 Mbit/s)

• Flow 1 (95th percentile 57.72 ms)

```
Run 3: Statistics of QUIC Cubic

Start at: 2019-03-27 17:14:13
End at: 2019-03-27 17:14:43
Local clock offset: -0.566 ms
Remote clock offset: 0.369 ms


# Below is generated by plot.py at 2019-03-27 20:27:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.99 Mbit/s
95th percentile per-packet one-way delay: 56.900 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 62.99 Mbit/s
95th percentile per-packet one-way delay: 56.900 ms
Loss rate: 0.62%
```
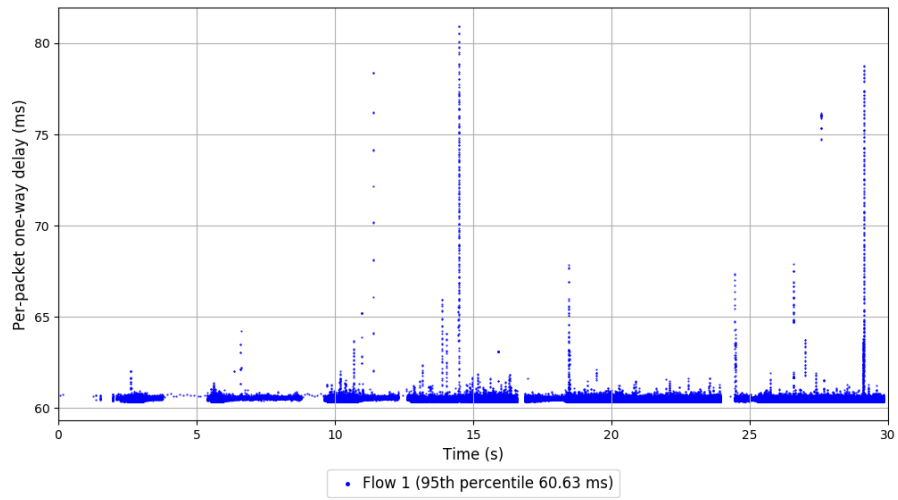
Run 3: Report of QUIC Cubic — Data Link

```
Run 4: Statistics of QUIC Cubic

Start at: 2019-03-27 17:44:46
End at: 2019-03-27 17:45:16
Local clock offset: 0.239 ms
Remote clock offset: 0.577 ms


# Below is generated by plot.py at 2019-03-27 20:27:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.59 Mbit/s
95th percentile per-packet one-way delay: 60.632 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 55.59 Mbit/s
95th percentile per-packet one-way delay: 60.632 ms
Loss rate: 0.70%
```
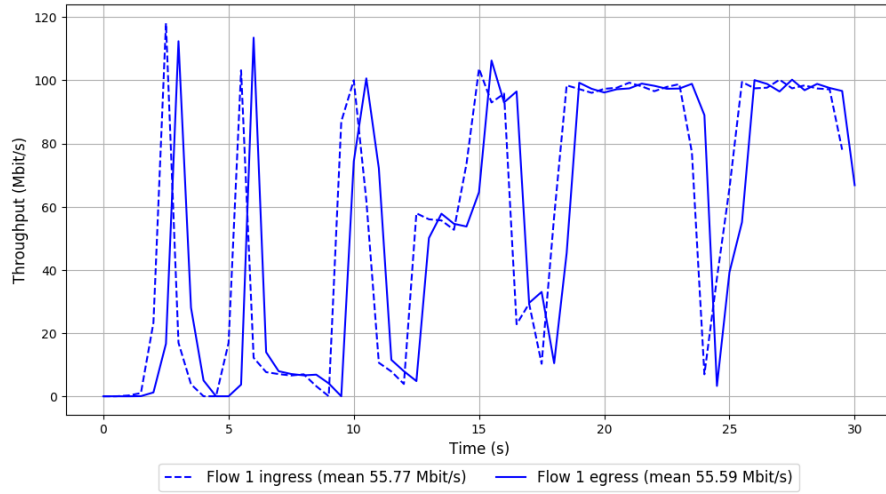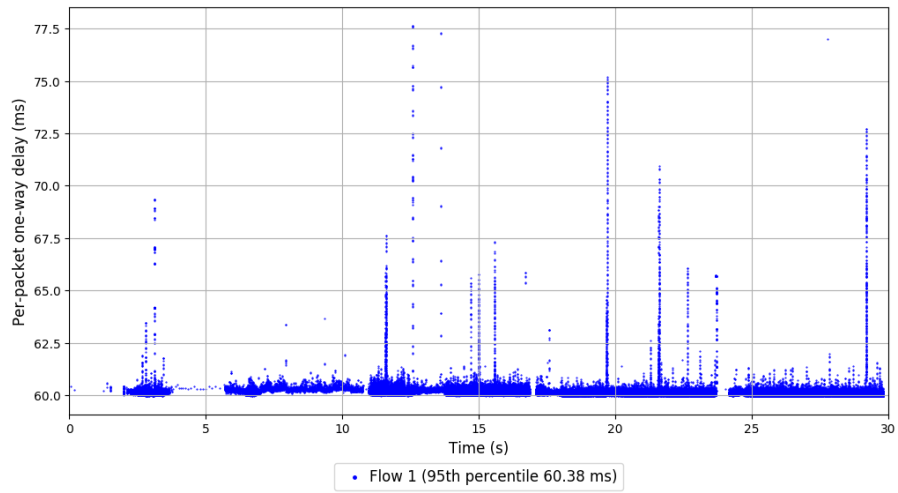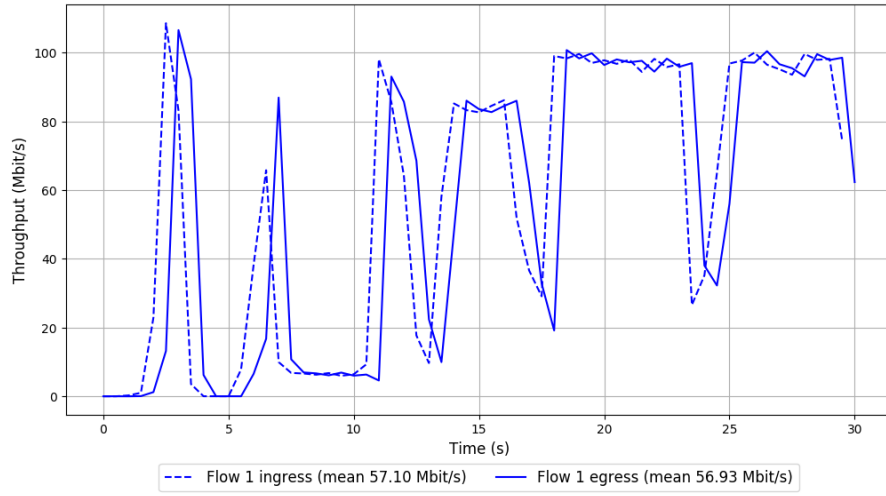
Run 4: Report of QUIC Cubic — Data Link

```
Run 5: Statistics of QUIC Cubic

Start at: 2019-03-27 18:15:39
End at: 2019-03-27 18:16:09
Local clock offset: -0.157 ms
Remote clock offset: 0.175 ms


# Below is generated by plot.py at 2019-03-27 20:27:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.93 Mbit/s
95th percentile per-packet one-way delay: 60.377 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 56.93 Mbit/s
95th percentile per-packet one-way delay: 60.377 ms
Loss rate: 0.69%
```
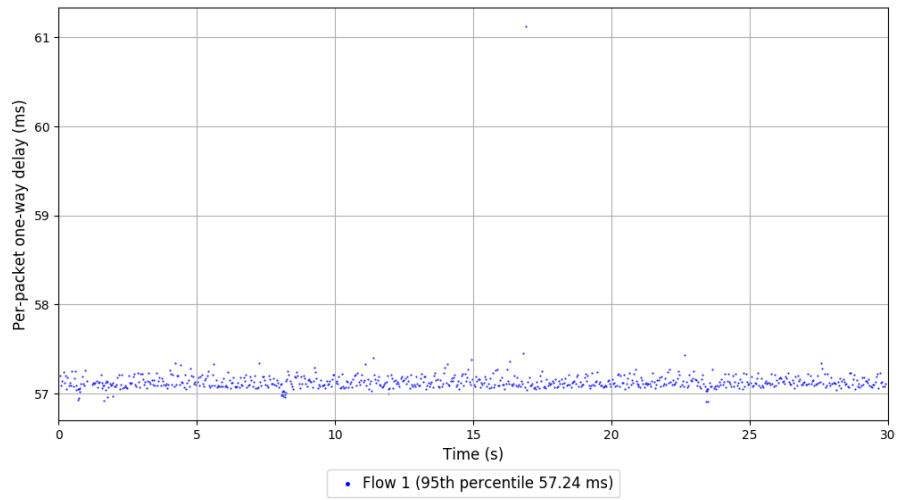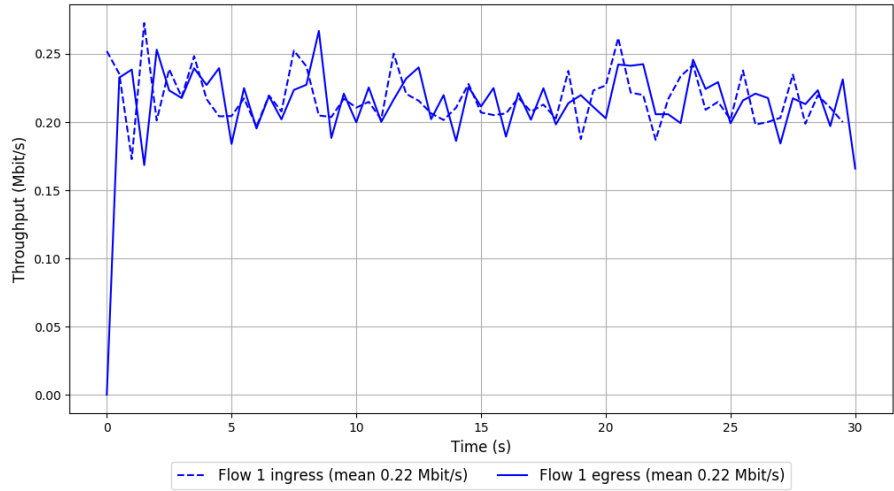
Run 5: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 57.10 Mbit/s)   Flow 1 egress (mean 56.93 Mbit/s)

Flow 1 (95th percentile 60.38 ms)

```
Run 1: Statistics of SCReAM

Start at: 2019-03-27 16:30:54
End at: 2019-03-27 16:31:24
Local clock offset: -0.38 ms
Remote clock offset: -0.063 ms


# Below is generated by plot.py at 2019-03-27 20:27:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.236 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.236 ms
Loss rate: 0.39%
```
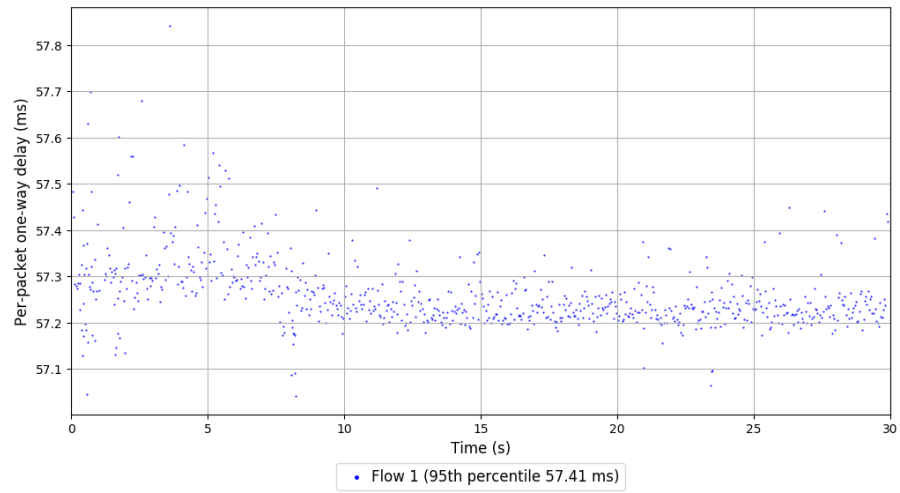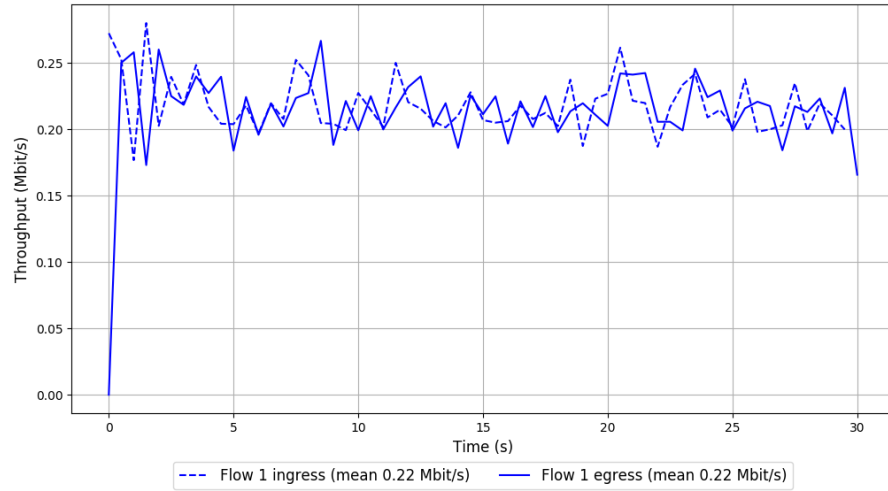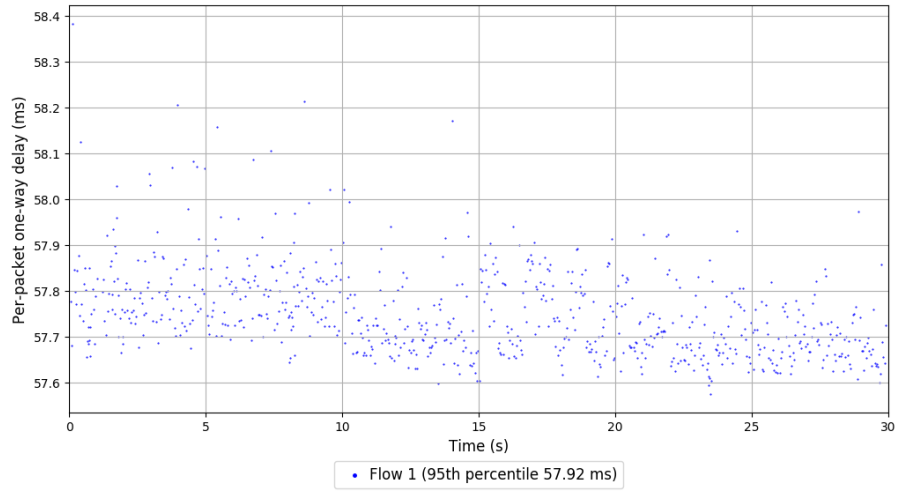
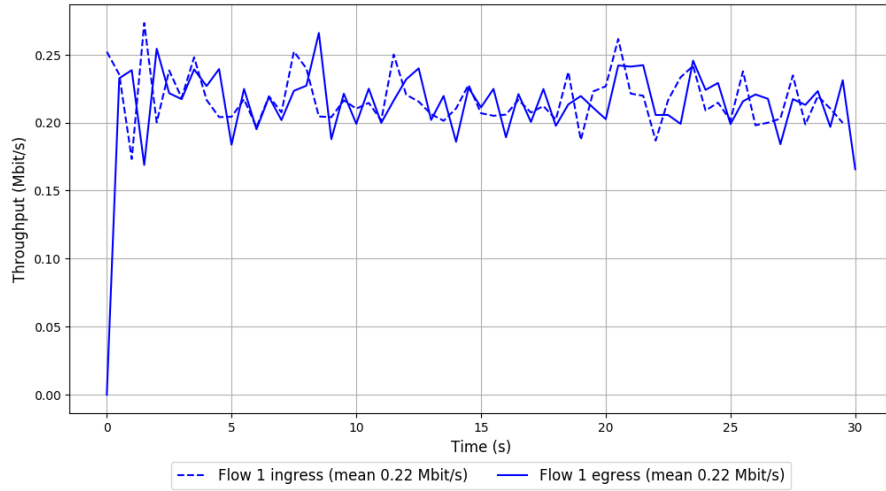## Run 1: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 57.24 ms)

```
Run 2: Statistics of SCReAM

Start at: 2019-03-27 17:02:57
End at: 2019-03-27 17:03:27
Local clock offset: -0.151 ms
Remote clock offset: 0.195 ms


# Below is generated by plot.py at 2019-03-27 20:27:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.412 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.412 ms
Loss rate: 0.39%
```

Run 2: Report of SCReAM — Data Link

```
Run 3: Statistics of SCReAM

Start at: 2019-03-27 17:34:08
End at: 2019-03-27 17:34:38
Local clock offset: -0.101 ms
Remote clock offset: -0.058 ms


# Below is generated by plot.py at 2019-03-27 20:27:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.916 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.916 ms
Loss rate: 0.39%
```
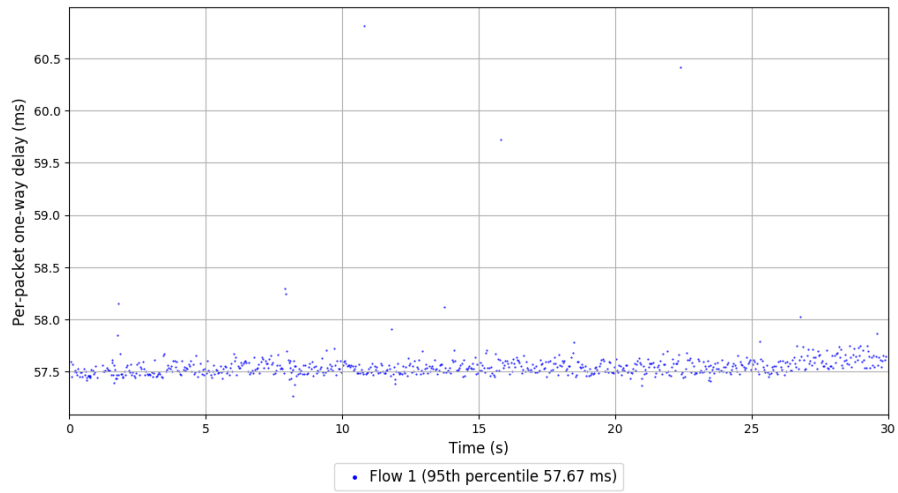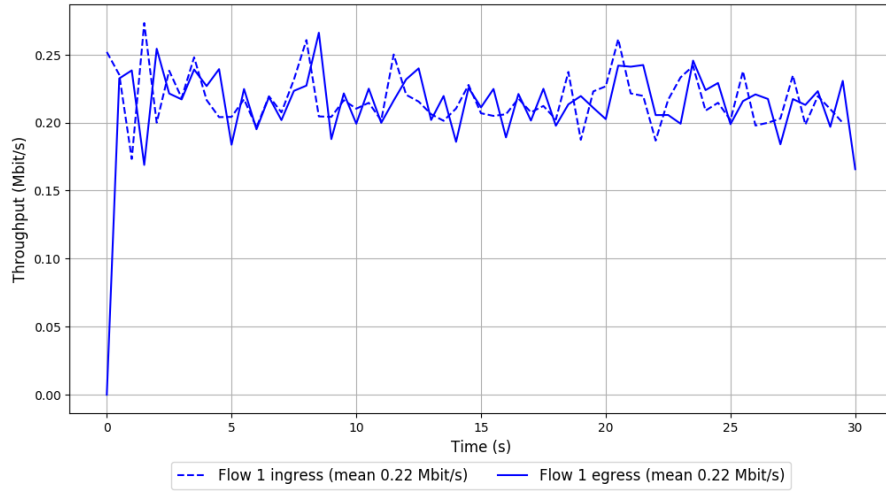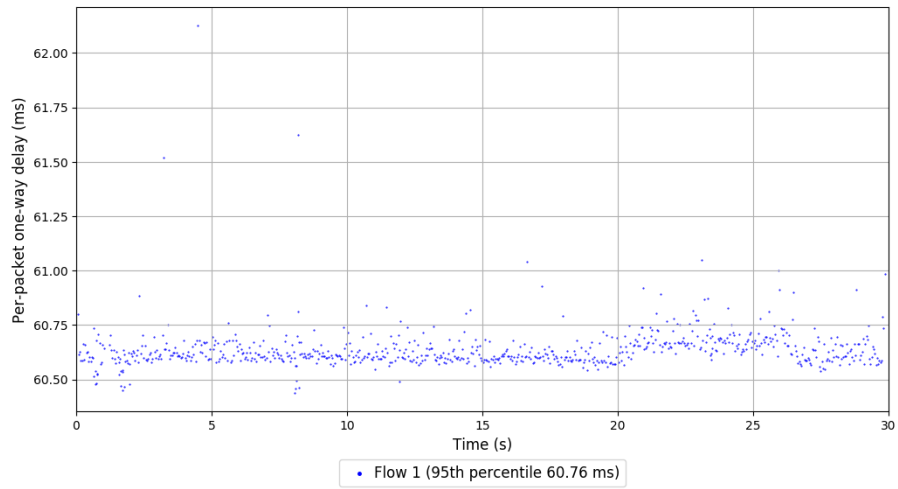
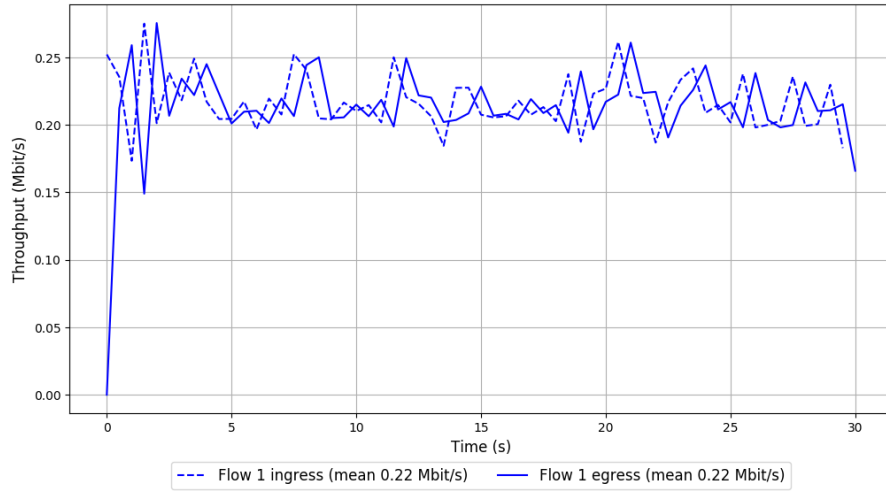# Run 3: Report of SCReAM — Data Link

```
Run 4: Statistics of SCReAM

Start at: 2019-03-27 18:04:55
End at: 2019-03-27 18:05:25
Local clock offset: -0.166 ms
Remote clock offset: 0.508 ms

# Below is generated by plot.py at 2019-03-27 20:27:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.675 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.675 ms
Loss rate: 0.39%
```

Run 4: 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 57.67 ms)

```
Run 5: Statistics of SCReAM

Start at: 2019-03-27 18:37:15
End at: 2019-03-27 18:37:45
Local clock offset: -0.064 ms
Remote clock offset: -0.513 ms


# Below is generated by plot.py at 2019-03-27 20:27:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.757 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.757 ms
Loss rate: 0.38%
```
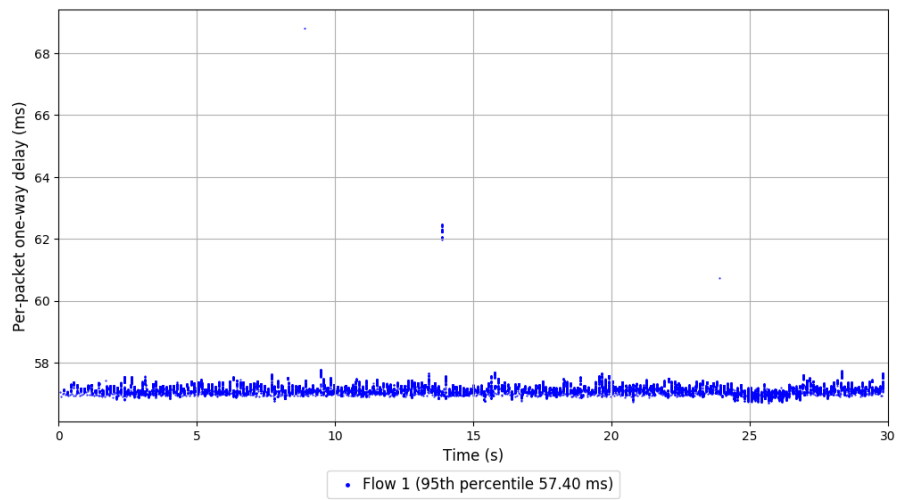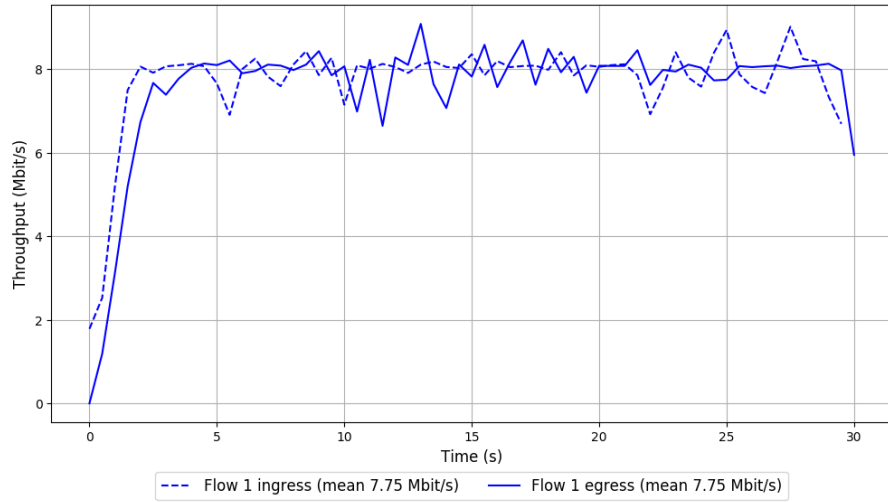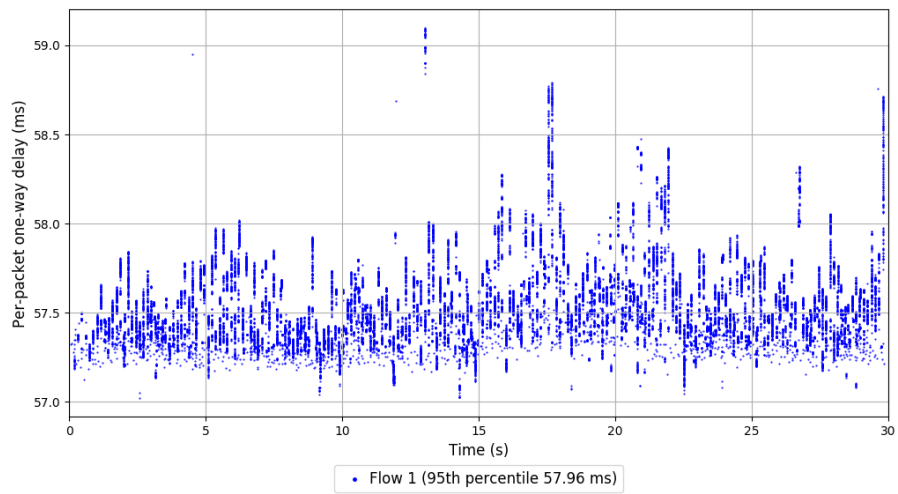
Run 5: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 60.76 ms)

```
Run 1: Statistics of Sprout

Start at: 2019-03-27 16:12:27
End at: 2019-03-27 16:12:57
Local clock offset: -0.195 ms
Remote clock offset: 0.037 ms


# Below is generated by plot.py at 2019-03-27 20:27:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.75 Mbit/s
95th percentile per-packet one-way delay: 57.403 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 7.75 Mbit/s
95th percentile per-packet one-way delay: 57.403 ms
Loss rate: 0.44%
```
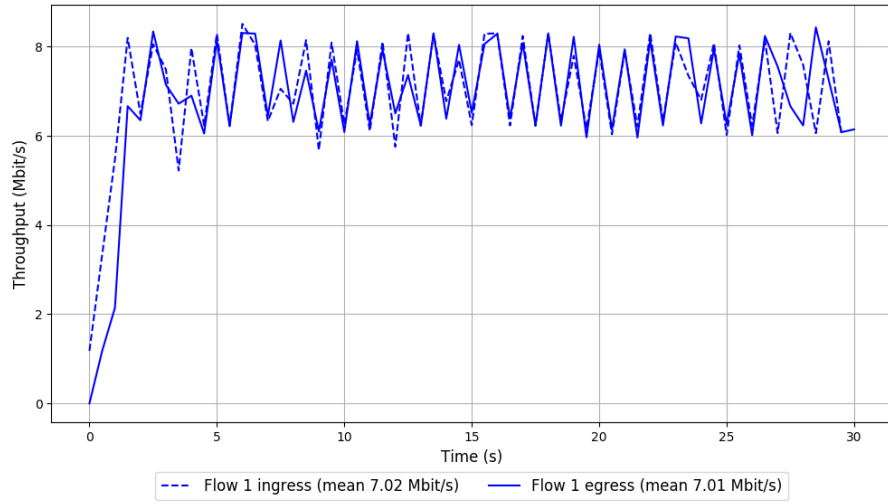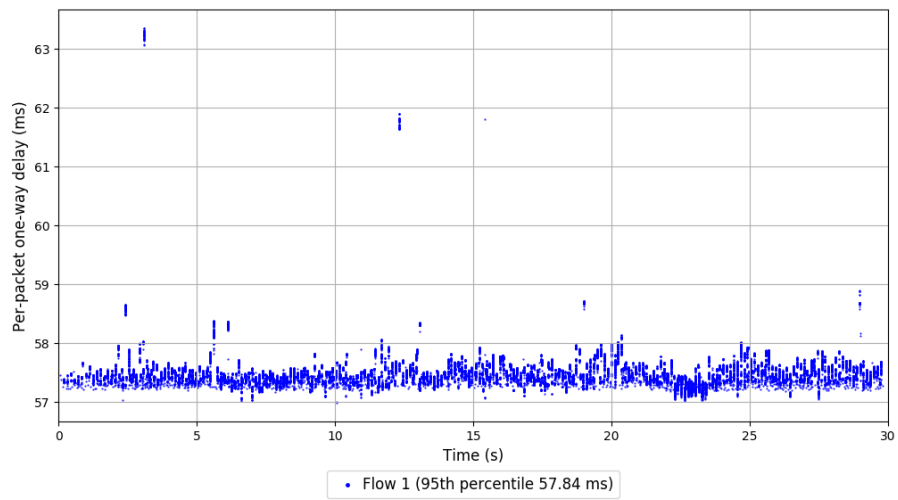
Run 1: Report of Sprout — Data Link

```
Run 2: Statistics of Sprout

Start at: 2019-03-27 16:44:16
End at: 2019-03-27 16:44:46
Local clock offset: -0.243 ms
Remote clock offset: 0.331 ms


# Below is generated by plot.py at 2019-03-27 20:27:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.01 Mbit/s
95th percentile per-packet one-way delay: 57.962 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 7.01 Mbit/s
95th percentile per-packet one-way delay: 57.962 ms
Loss rate: 0.47%
```
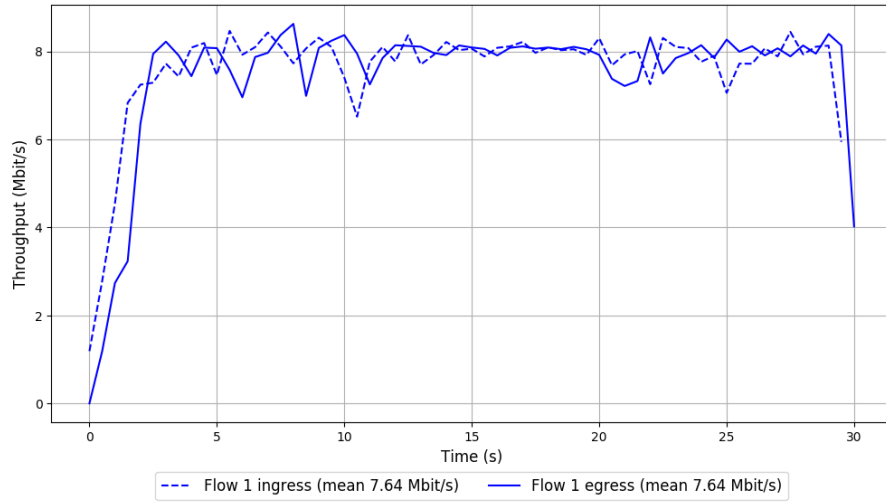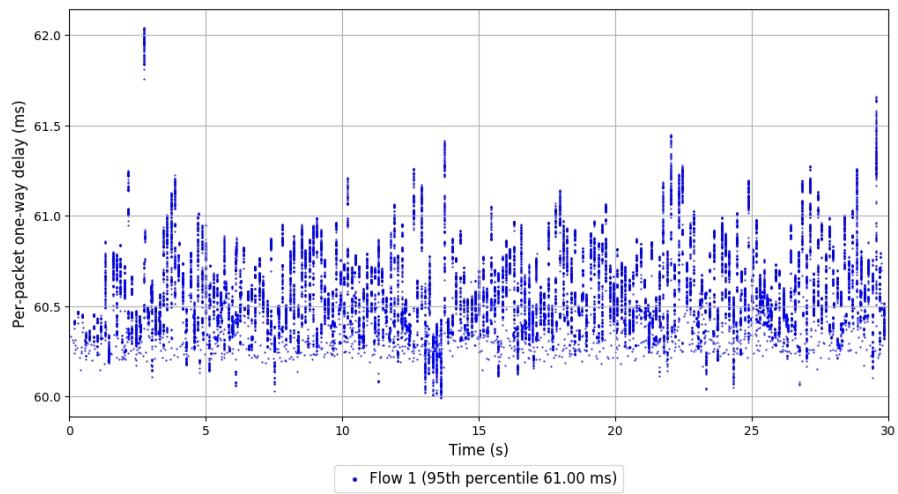
Run 2: Report of Sprout — Data Link

Flow 1 ingress (mean 7.02 Mbit/s) ----   Flow 1 egress (mean 7.01 Mbit/s) ——

• Flow 1 (95th percentile 57.96 ms)

```
Run 3: Statistics of Sprout

Start at: 2019-03-27 17:16:33
End at: 2019-03-27 17:17:03
Local clock offset: -0.308 ms
Remote clock offset: 0.262 ms


# Below is generated by plot.py at 2019-03-27 20:27:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.64 Mbit/s
95th percentile per-packet one-way delay: 57.845 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 7.64 Mbit/s
95th percentile per-packet one-way delay: 57.845 ms
Loss rate: 0.42%
```
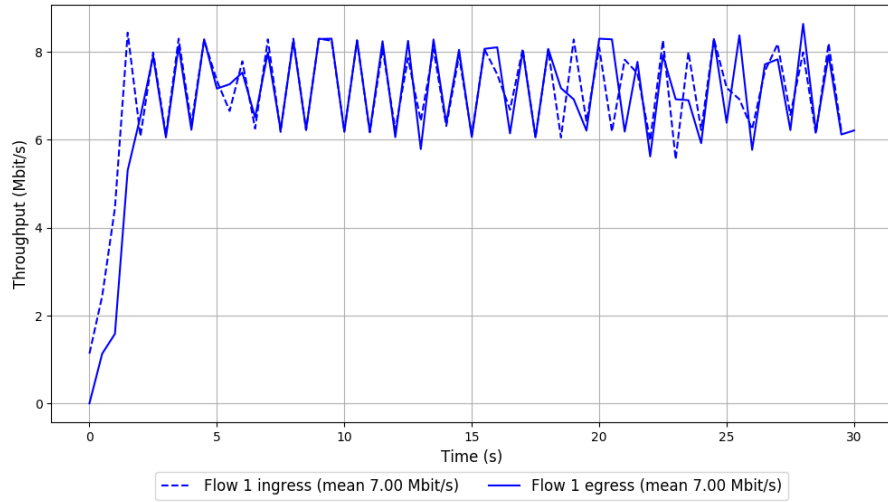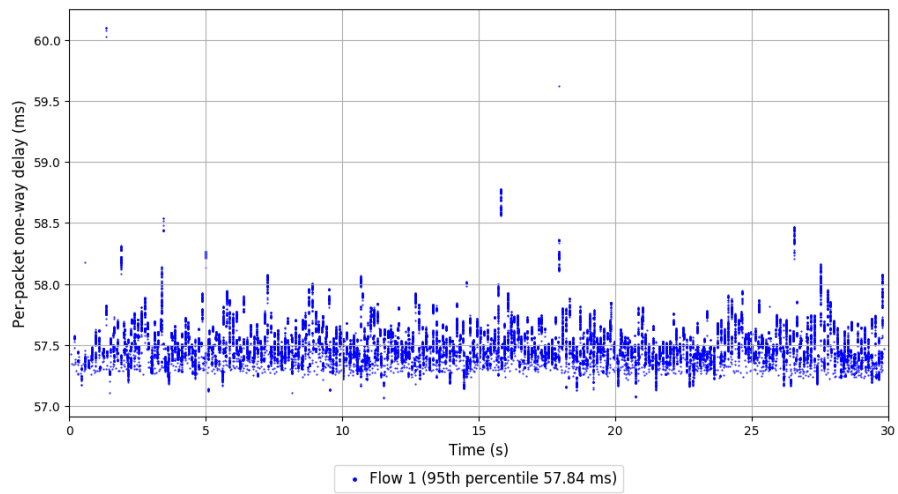
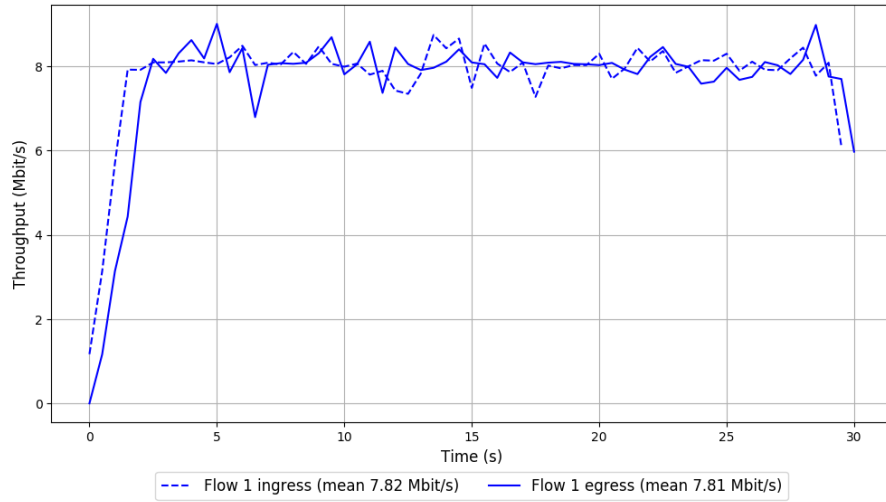## Run 3: Report of Sprout — Data Link

```
Run 4: Statistics of Sprout

Start at: 2019-03-27 17:47:06
End at: 2019-03-27 17:47:36
Local clock offset: 0.151 ms
Remote clock offset: 1.193 ms


# Below is generated by plot.py at 2019-03-27 20:27:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.00 Mbit/s
95th percentile per-packet one-way delay: 61.002 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 7.00 Mbit/s
95th percentile per-packet one-way delay: 61.002 ms
Loss rate: 0.49%
```

Run 4: Report of Sprout — Data Link

```
Run 5: Statistics of Sprout

Start at: 2019-03-27 18:17:59
End at: 2019-03-27 18:18:29
Local clock offset: -0.332 ms
Remote clock offset: -0.093 ms


# Below is generated by plot.py at 2019-03-27 20:27:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.81 Mbit/s
95th percentile per-packet one-way delay: 57.841 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 7.81 Mbit/s
95th percentile per-packet one-way delay: 57.841 ms
Loss rate: 0.44%
```
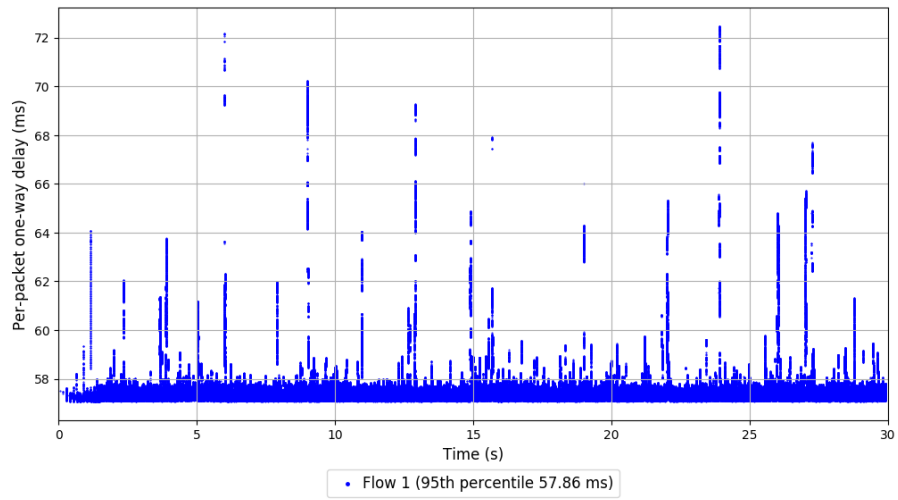
Run 5: Report of Sprout — Data Link

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

Start at: 2019-03-27 16:21:37
End at: 2019-03-27 16:22:07
Local clock offset: 0.047 ms
Remote clock offset: -0.019 ms


# Below is generated by plot.py at 2019-03-27 20:28:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.22 Mbit/s
95th percentile per-packet one-way delay: 57.863 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 219.22 Mbit/s
95th percentile per-packet one-way delay: 57.863 ms
Loss rate: 0.35%
```
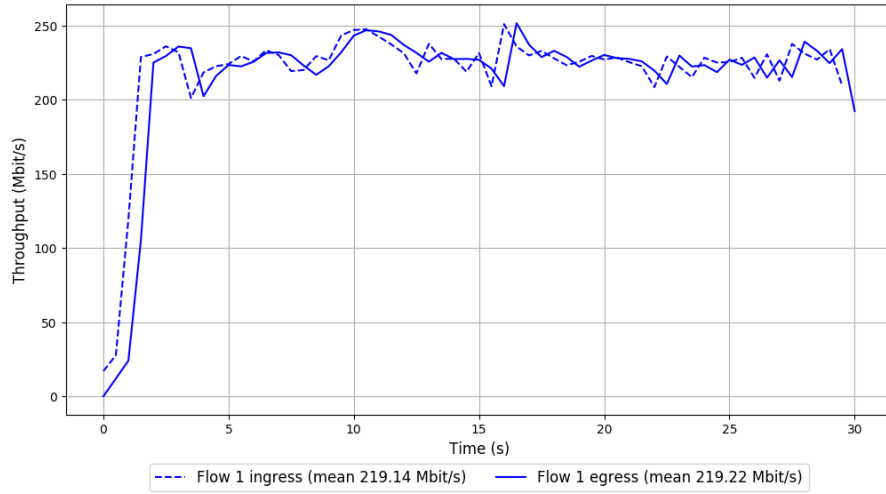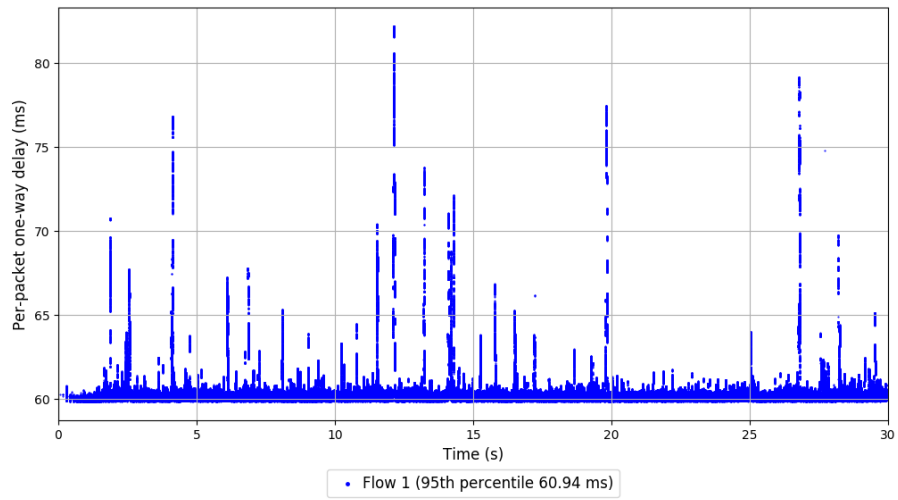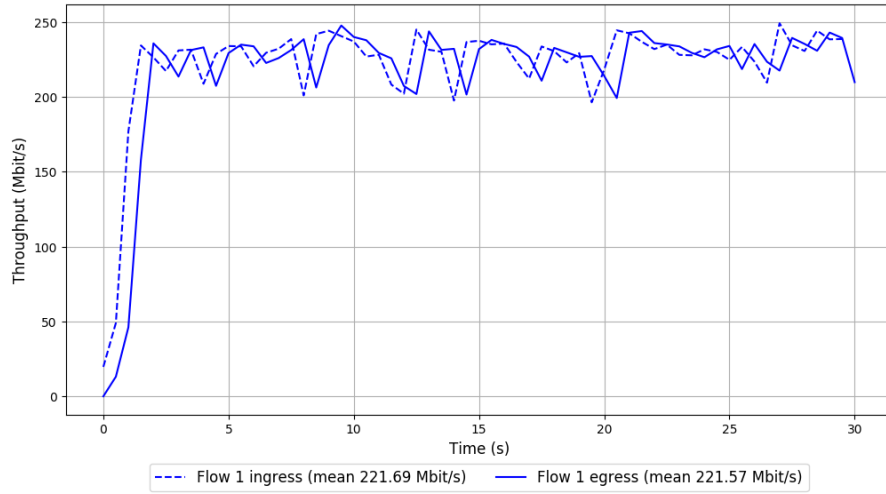
Run 1: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 219.14 Mbit/s)   Flow 1 egress (mean 219.22 Mbit/s)

• Flow 1 (95th percentile 57.86 ms)

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

Start at: 2019-03-27 16:53:35
End at: 2019-03-27 16:54:05
Local clock offset: -0.443 ms
Remote clock offset: 0.136 ms


# Below is generated by plot.py at 2019-03-27 20:28:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 221.57 Mbit/s
95th percentile per-packet one-way delay: 60.936 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 221.57 Mbit/s
95th percentile per-packet one-way delay: 60.936 ms
Loss rate: 0.45%
```
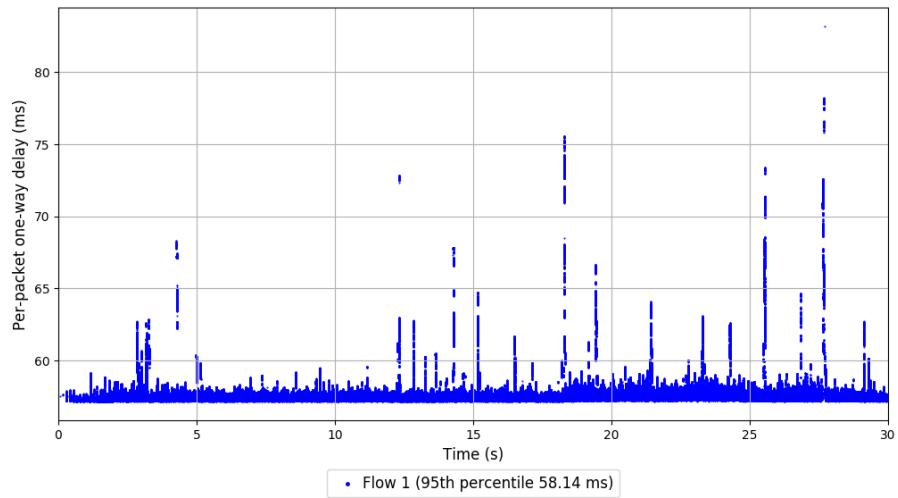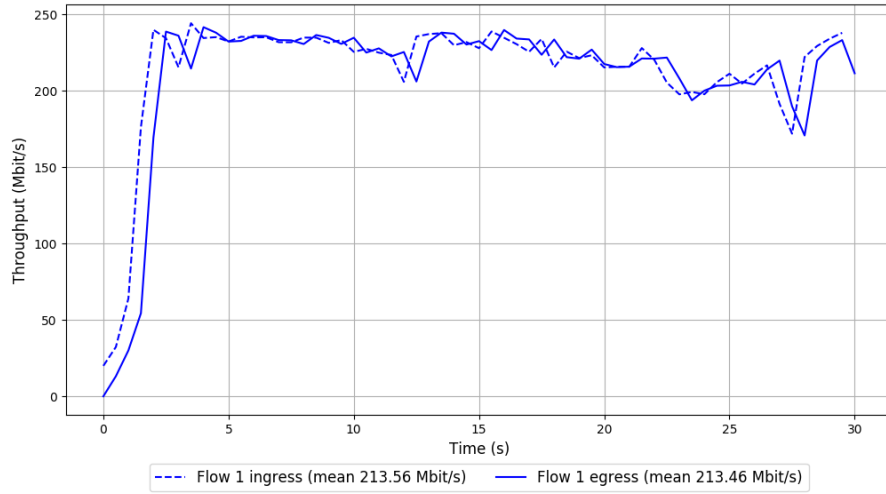
Run 2: Report of TaoVA-100x — Data Link

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

Start at: 2019-03-27 17:25:19
End at: 2019-03-27 17:25:49
Local clock offset: 0.009 ms
Remote clock offset: 0.372 ms


# Below is generated by plot.py at 2019-03-27 20:28:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 213.46 Mbit/s
95th percentile per-packet one-way delay: 58.136 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 213.46 Mbit/s
95th percentile per-packet one-way delay: 58.136 ms
Loss rate: 0.43%
```
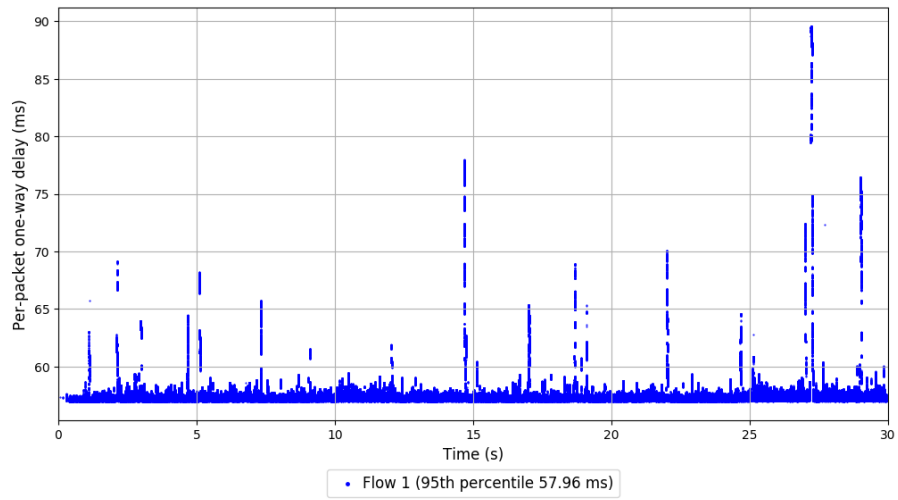
Run 3: Report of TaoVA-100x — Data Link

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

Start at: 2019-03-27 17:56:04
End at: 2019-03-27 17:56:34
Local clock offset: -0.126 ms
Remote clock offset: 0.573 ms


# Below is generated by plot.py at 2019-03-27 20:29:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 220.68 Mbit/s
95th percentile per-packet one-way delay: 57.958 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 220.68 Mbit/s
95th percentile per-packet one-way delay: 57.958 ms
Loss rate: 0.40%
```
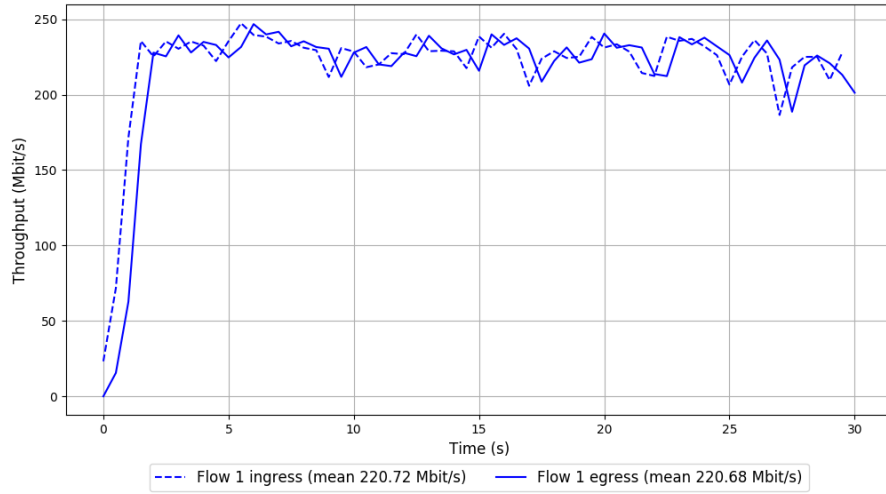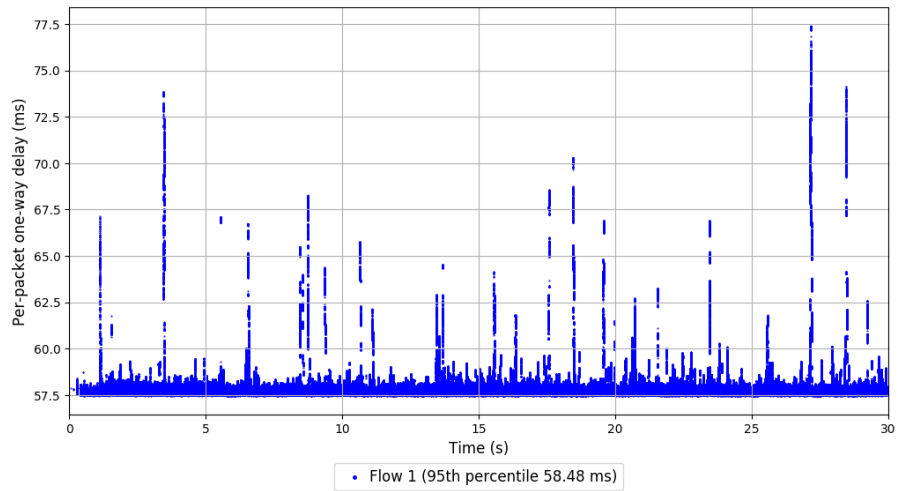
Run 4: Report of TaoVA-100x — Data Link

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

Start at: 2019-03-27 18:27:27
End at: 2019-03-27 18:27:57
Local clock offset: 0.306 ms
Remote clock offset: -0.363 ms

# Below is generated by plot.py at 2019-03-27 20:29:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 223.73 Mbit/s
95th percentile per-packet one-way delay: 58.482 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 223.73 Mbit/s
95th percentile per-packet one-way delay: 58.482 ms
Loss rate: 0.39%
```
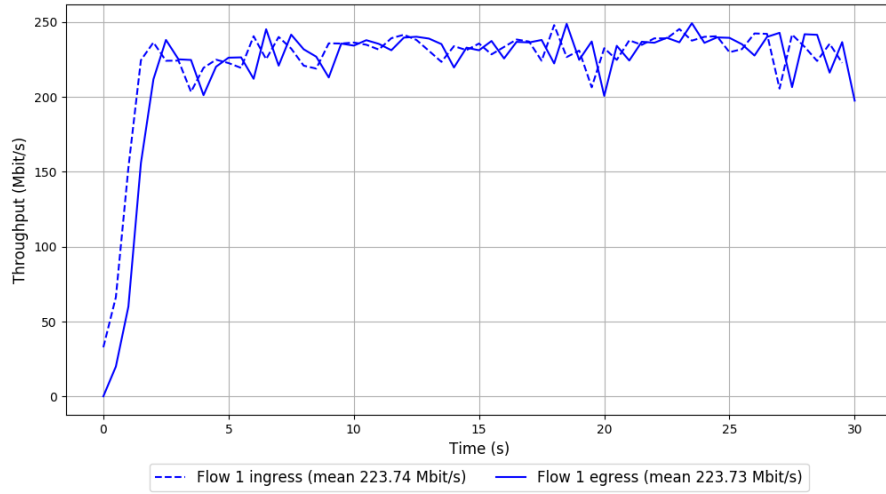
Run 5: Report of TaoVA-100x — Data Link

```
Run 1: Statistics of TCP Vegas

Start at: 2019-03-27 16:13:36
End at: 2019-03-27 16:14:06
Local clock offset: -0.166 ms
Remote clock offset: -0.09 ms


# Below is generated by plot.py at 2019-03-27 20:29:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 361.29 Mbit/s
95th percentile per-packet one-way delay: 72.379 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 361.29 Mbit/s
95th percentile per-packet one-way delay: 72.379 ms
Loss rate: 0.24%
```
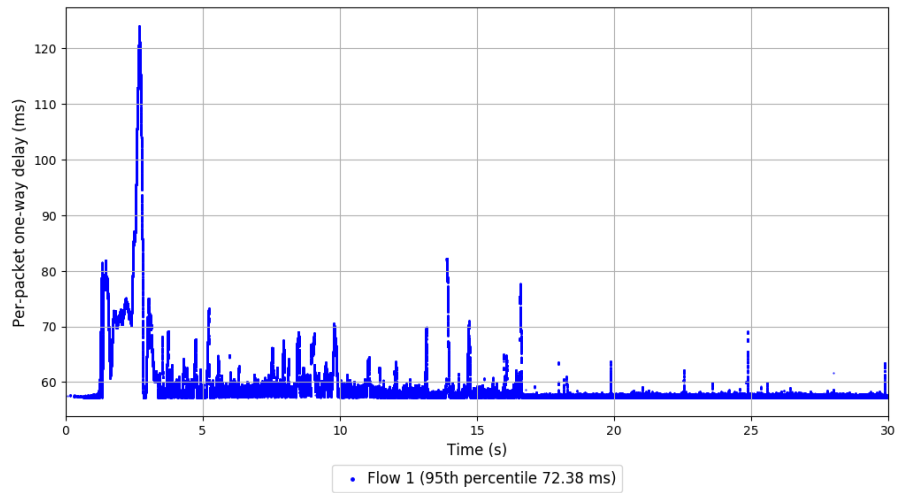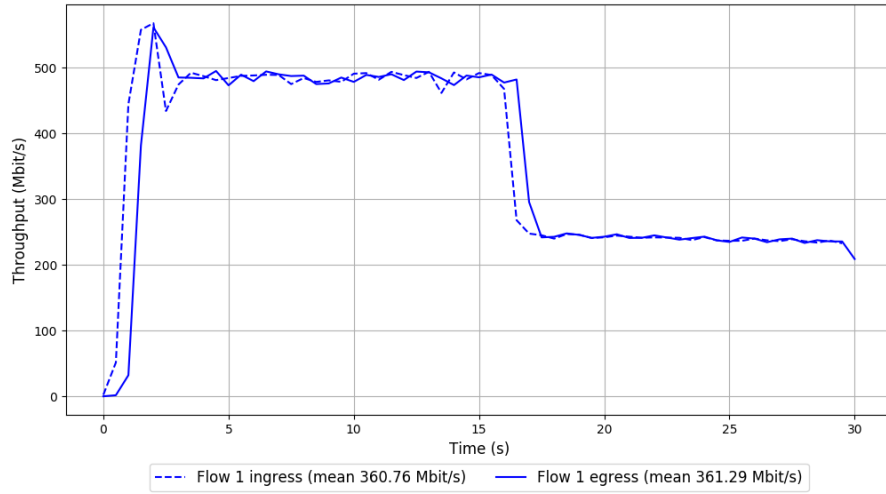
Run 1: Report of TCP Vegas — Data Link

```
Run 2: Statistics of TCP Vegas

Start at: 2019-03-27 16:45:25
End at: 2019-03-27 16:45:55
Local clock offset: 0.207 ms
Remote clock offset: 0.383 ms


# Below is generated by plot.py at 2019-03-27 20:31:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 276.73 Mbit/s
95th percentile per-packet one-way delay: 71.191 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 276.73 Mbit/s
95th percentile per-packet one-way delay: 71.191 ms
Loss rate: 0.30%
```
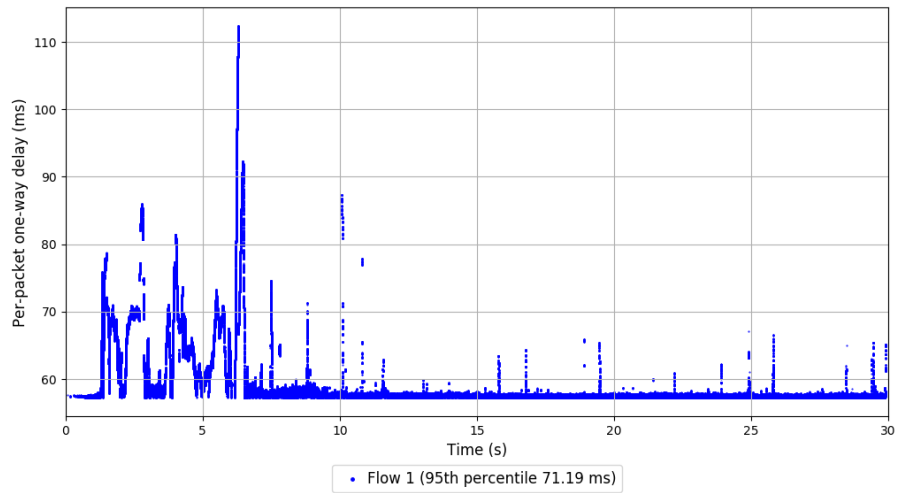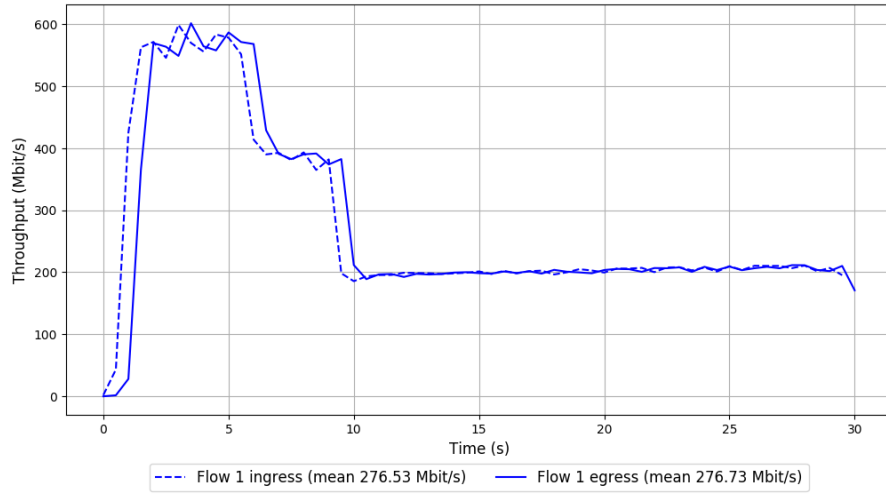
Run 2: Report of TCP Vegas — Data Link

```
Run 3: Statistics of TCP Vegas

Start at: 2019-03-27 17:17:42
End at: 2019-03-27 17:18:12
Local clock offset: -0.123 ms
Remote clock offset: -0.159 ms


# Below is generated by plot.py at 2019-03-27 20:32:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 265.06 Mbit/s
95th percentile per-packet one-way delay: 59.292 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 265.06 Mbit/s
95th percentile per-packet one-way delay: 59.292 ms
Loss rate: 0.35%
```
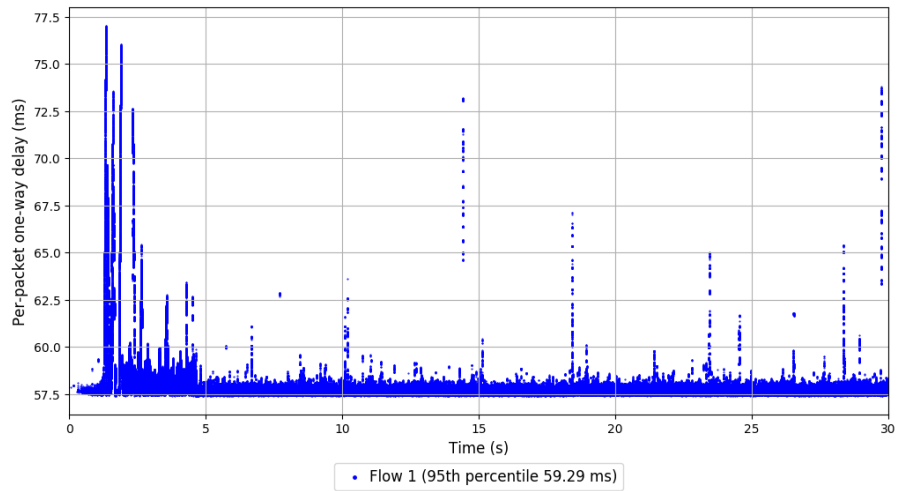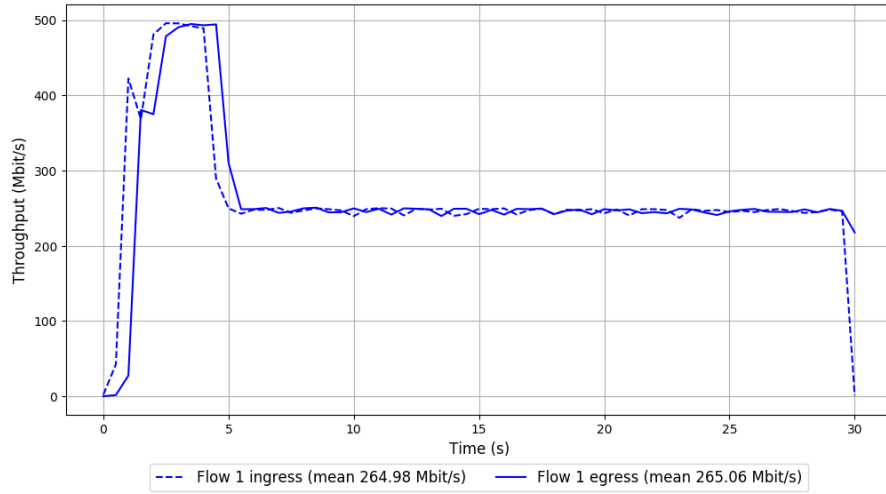
Run 3: Report of TCP Vegas — Data Link

```
Run 4: Statistics of TCP Vegas

Start at: 2019-03-27 17:48:15
End at: 2019-03-27 17:48:45
Local clock offset: -0.356 ms
Remote clock offset: 0.619 ms


# Below is generated by plot.py at 2019-03-27 20:37:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 467.26 Mbit/s
95th percentile per-packet one-way delay: 69.617 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 467.26 Mbit/s
95th percentile per-packet one-way delay: 69.617 ms
Loss rate: 0.40%
```
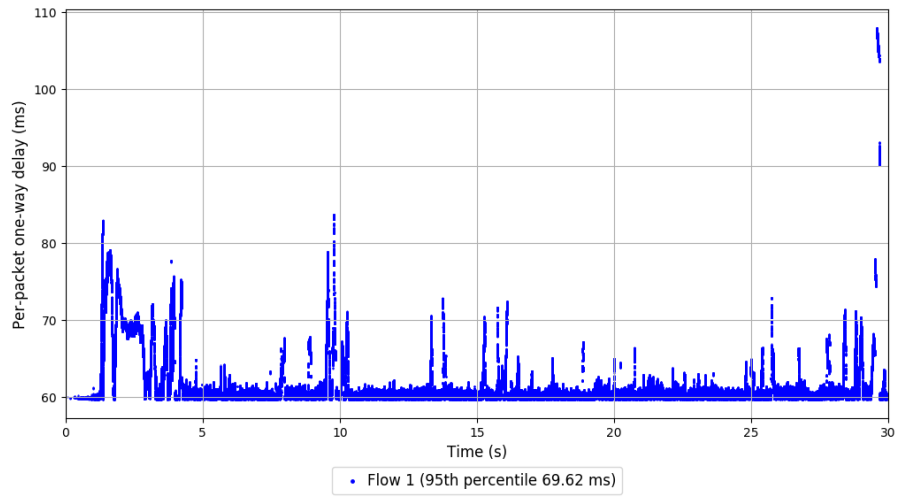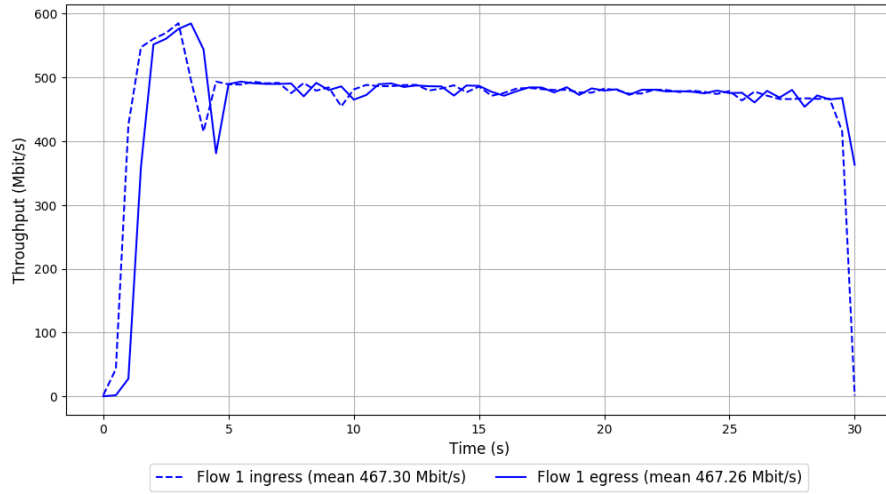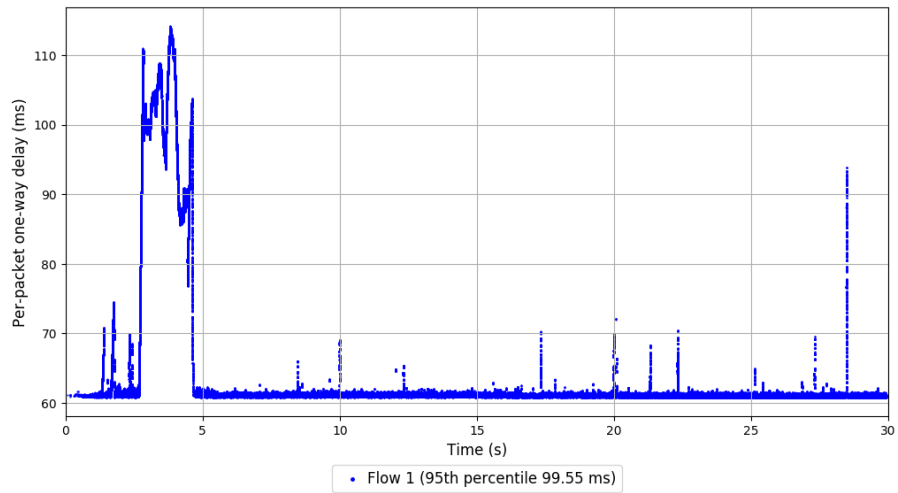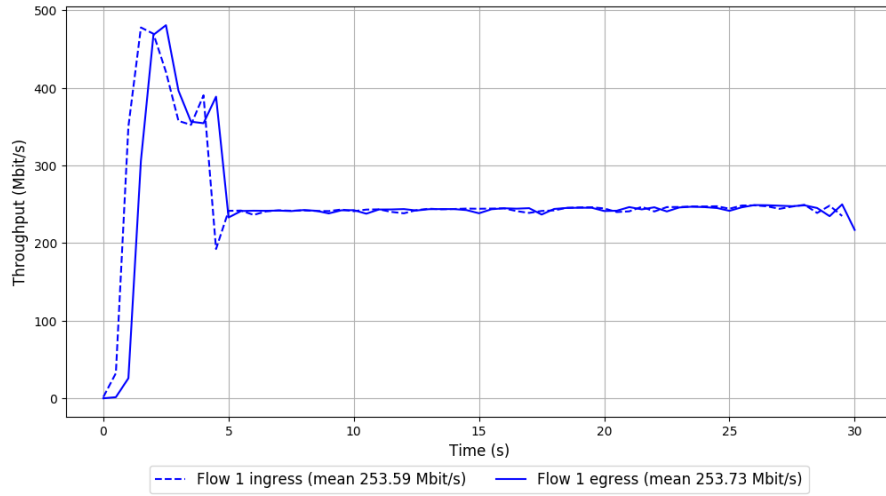
Run 4: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 467.30 Mbit/s)   Flow 1 egress (mean 467.26 Mbit/s)

Flow 1 (95th percentile 69.62 ms)

```
Run 5: Statistics of TCP Vegas

Start at: 2019-03-27 18:19:08
End at: 2019-03-27 18:19:38
Local clock offset: 0.054 ms
Remote clock offset: -0.082 ms


# Below is generated by plot.py at 2019-03-27 20:37:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 253.73 Mbit/s
95th percentile per-packet one-way delay: 99.547 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 253.73 Mbit/s
95th percentile per-packet one-way delay: 99.547 ms
Loss rate: 0.34%
```

Run 5: Report of TCP Vegas — Data Link

```
Run 1: Statistics of Verus

Start at: 2019-03-27 16:27:33
End at: 2019-03-27 16:28:03
Local clock offset: -0.597 ms
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2019-03-27 20:37:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 115.58 Mbit/s
95th percentile per-packet one-way delay: 72.447 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 115.58 Mbit/s
95th percentile per-packet one-way delay: 72.447 ms
Loss rate: 0.40%
```
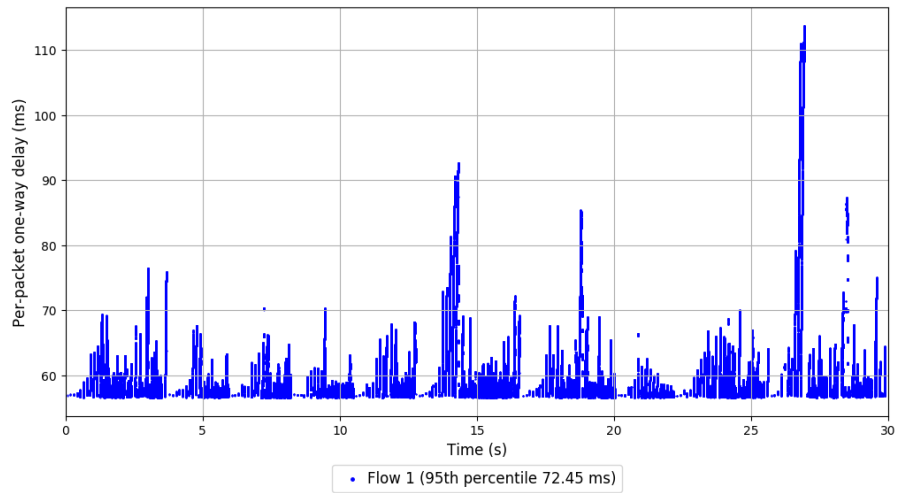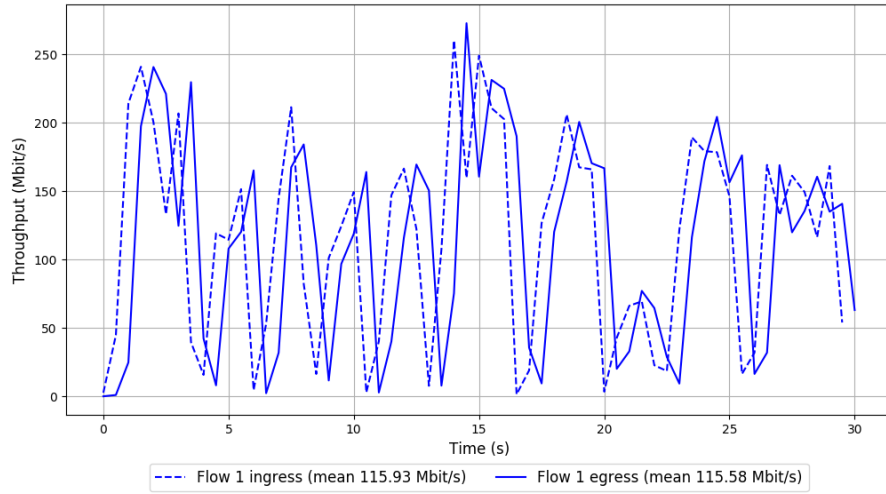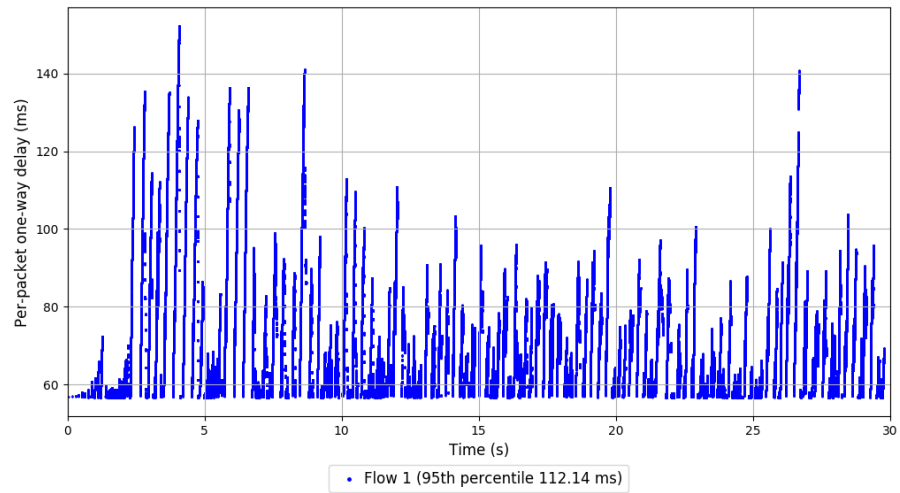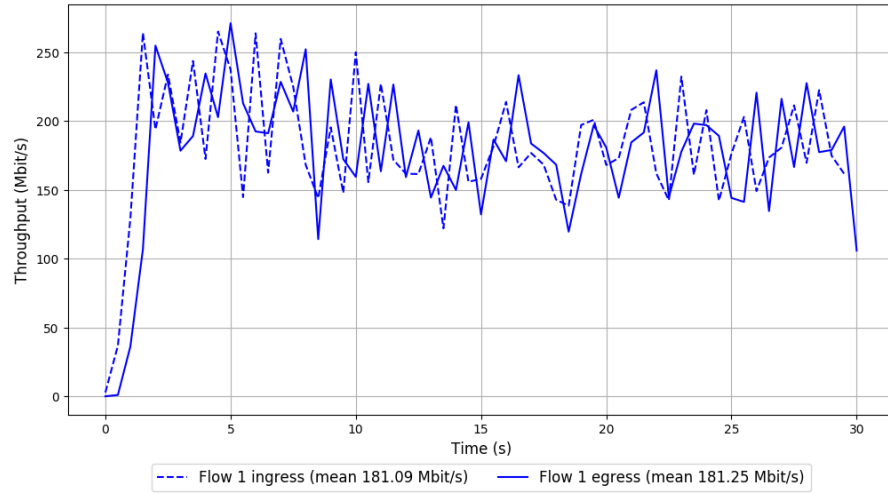
Run 1: Report of Verus — Data Link

```
Run 2: Statistics of Verus

Start at: 2019-03-27 16:59:40
End at: 2019-03-27 17:00:10
Local clock offset: -0.26 ms
Remote clock offset: 0.256 ms


# Below is generated by plot.py at 2019-03-27 20:37:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 181.25 Mbit/s
95th percentile per-packet one-way delay: 112.143 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 181.25 Mbit/s
95th percentile per-packet one-way delay: 112.143 ms
Loss rate: 0.74%
```

Run 2: Report of Verus — Data Link

```
Run 3: Statistics of Verus

Start at: 2019-03-27 17:31:02
End at: 2019-03-27 17:31:32
Local clock offset: 0.047 ms
Remote clock offset: 0.491 ms


# Below is generated by plot.py at 2019-03-27 20:37:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 144.38 Mbit/s
95th percentile per-packet one-way delay: 90.868 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 144.38 Mbit/s
95th percentile per-packet one-way delay: 90.868 ms
Loss rate: 1.09%
```
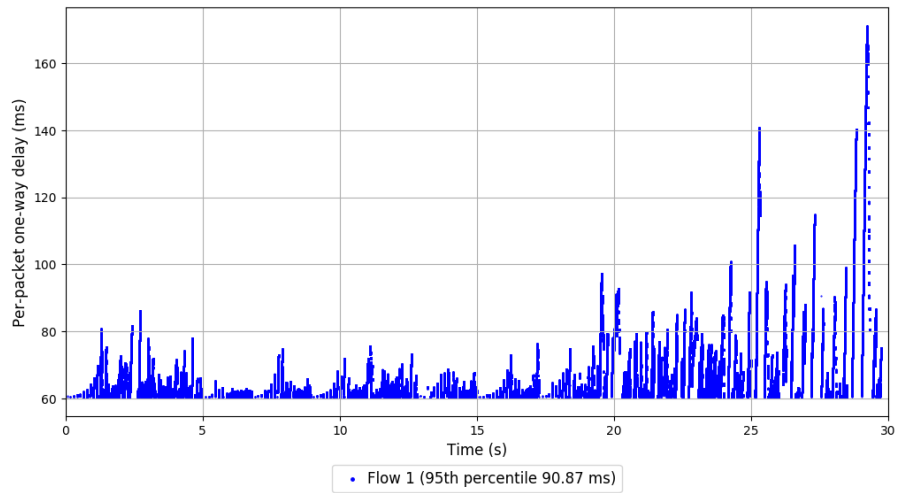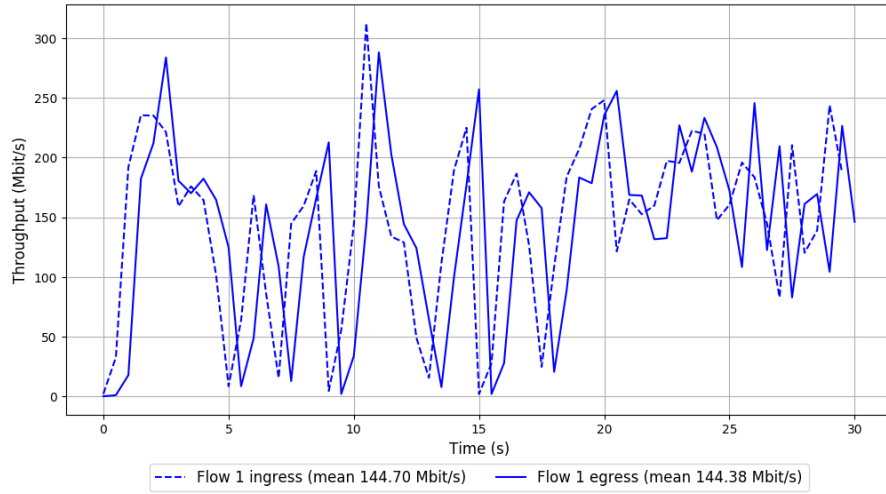
Run 3: Report of Verus — Data Link

```
Run 4: Statistics of Verus

Start at: 2019-03-27 18:01:50
End at: 2019-03-27 18:02:20
Local clock offset: -0.372 ms
Remote clock offset: 0.321 ms


# Below is generated by plot.py at 2019-03-27 20:37:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 119.80 Mbit/s
95th percentile per-packet one-way delay: 78.157 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 119.80 Mbit/s
95th percentile per-packet one-way delay: 78.157 ms
Loss rate: 0.01%
```
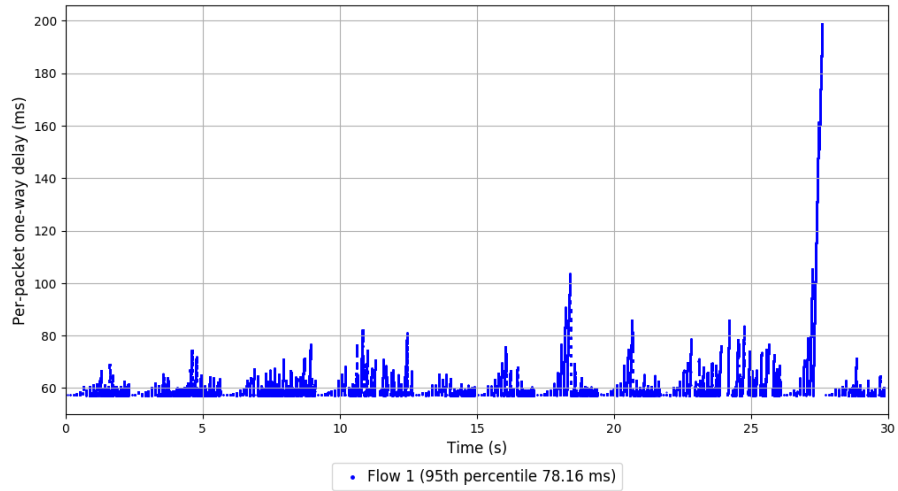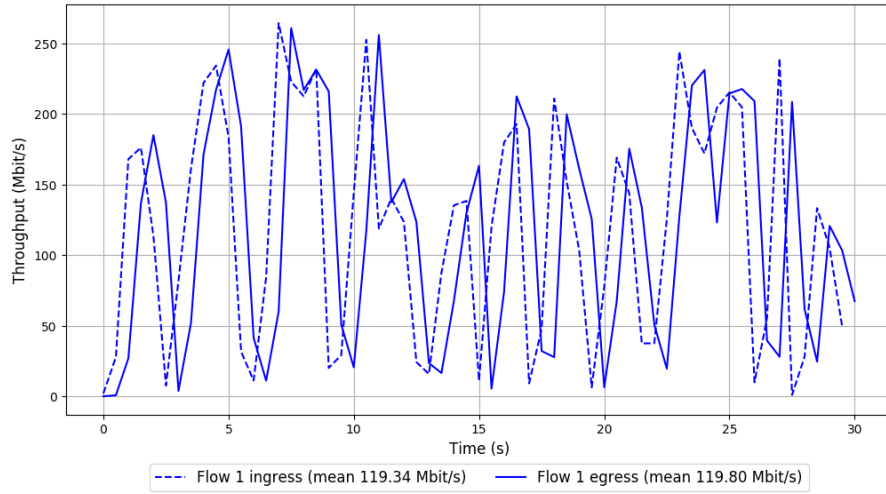
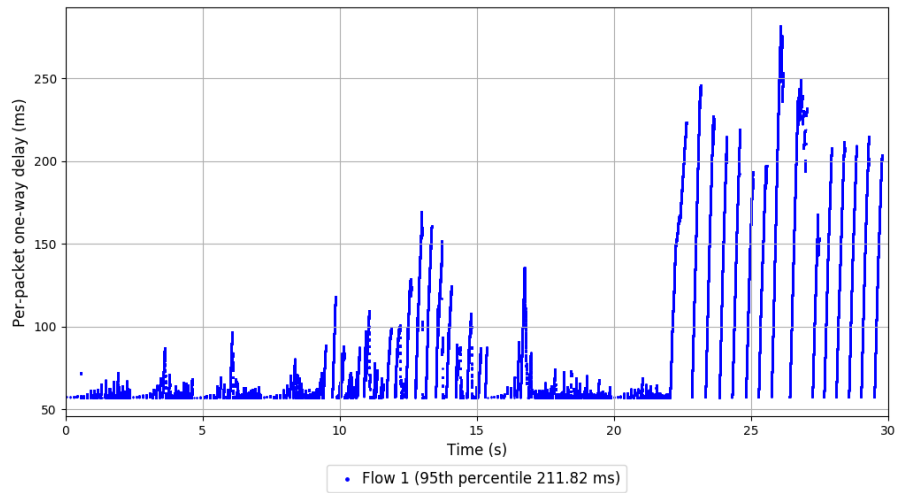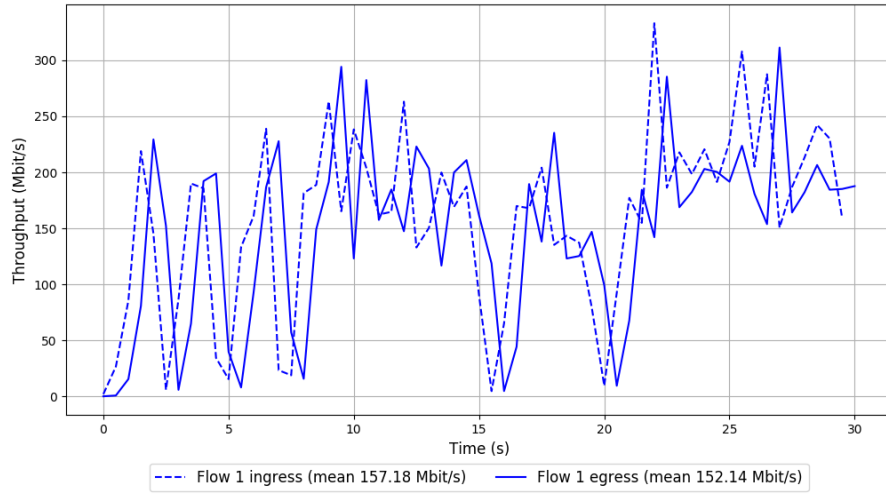Run 4: Report of Verus — Data Link

```
Run 5: Statistics of Verus

Start at: 2019-03-27 18:33:52
End at: 2019-03-27 18:34:22
Local clock offset: -0.355 ms
Remote clock offset: -0.394 ms

# Below is generated by plot.py at 2019-03-27 20:37:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 152.14 Mbit/s
95th percentile per-packet one-way delay: 211.818 ms
Loss rate: 4.00%
-- Flow 1:
Average throughput: 152.14 Mbit/s
95th percentile per-packet one-way delay: 211.818 ms
Loss rate: 4.00%
```

Run 5: Report of Verus — Data Link

```
Run 1: Statistics of PCC-Vivace

Start at: 2019-03-27 16:32:02
End at: 2019-03-27 16:32:32
Local clock offset: 0.207 ms
Remote clock offset: -0.528 ms


# Below is generated by plot.py at 2019-03-27 20:37:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 160.14 Mbit/s
95th percentile per-packet one-way delay: 59.896 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 160.14 Mbit/s
95th percentile per-packet one-way delay: 59.896 ms
Loss rate: 0.76%
```
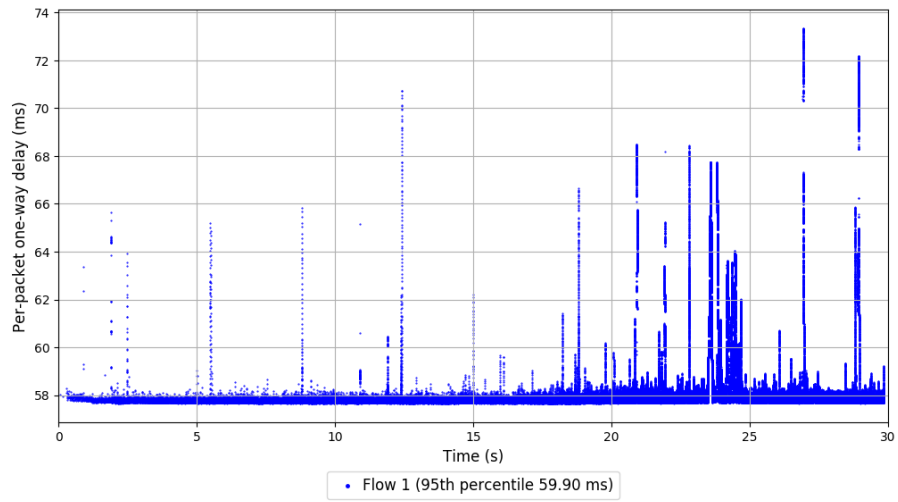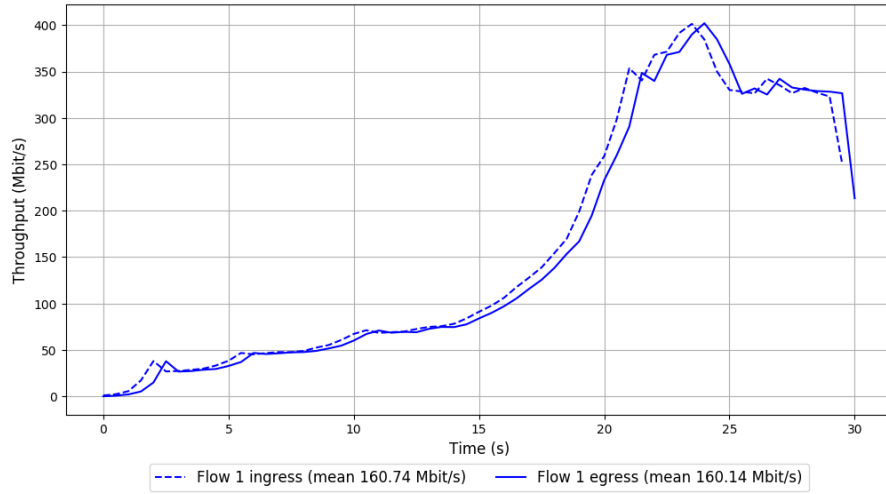
Run 1: Report of PCC-Vivace — Data Link

```
Run 2: Statistics of PCC-Vivace

Start at: 2019-03-27 17:04:05
End at: 2019-03-27 17:04:35
Local clock offset: -0.463 ms
Remote clock offset: 0.238 ms


# Below is generated by plot.py at 2019-03-27 20:38:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 336.46 Mbit/s
95th percentile per-packet one-way delay: 72.894 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 336.46 Mbit/s
95th percentile per-packet one-way delay: 72.894 ms
Loss rate: 0.37%
```
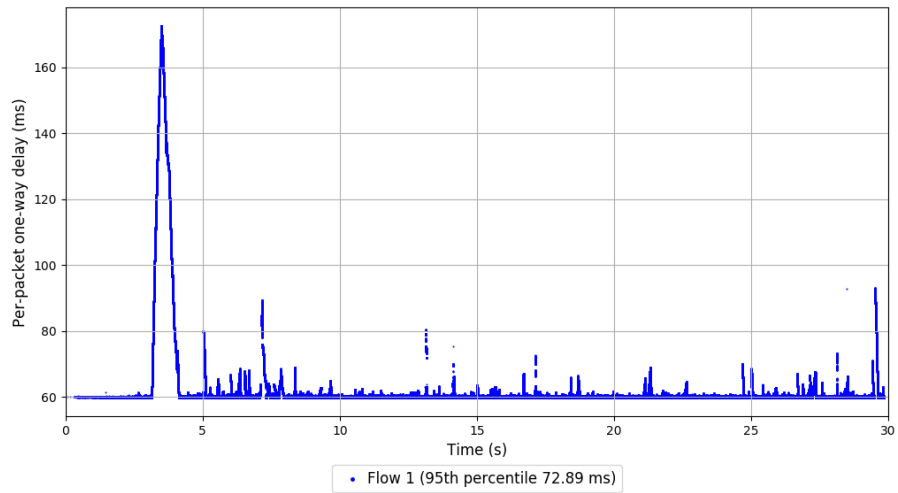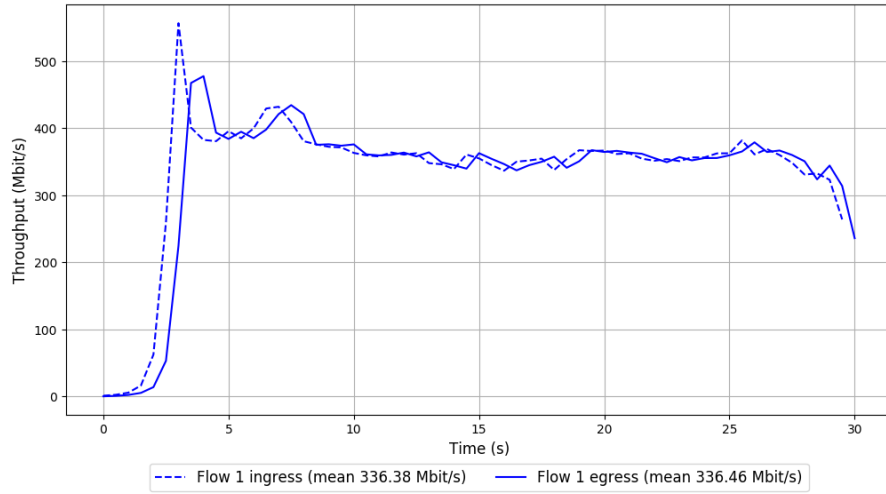
Run 2: Report of PCC-Vivace — Data Link

```
Run 3: Statistics of PCC-Vivace

Start at: 2019-03-27 17:35:16
End at: 2019-03-27 17:35:46
Local clock offset: -0.082 ms
Remote clock offset: 0.256 ms


# Below is generated by plot.py at 2019-03-27 20:38:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 179.46 Mbit/s
95th percentile per-packet one-way delay: 57.711 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 179.46 Mbit/s
95th percentile per-packet one-way delay: 57.711 ms
Loss rate: 0.70%
```
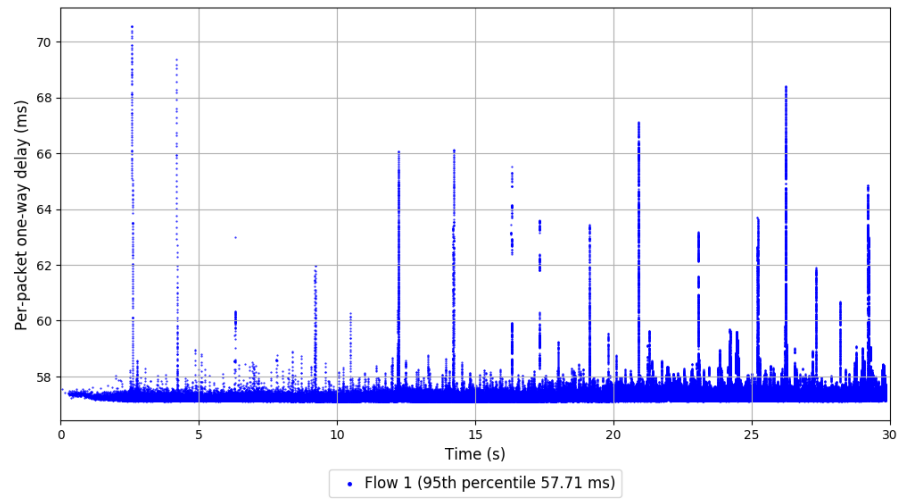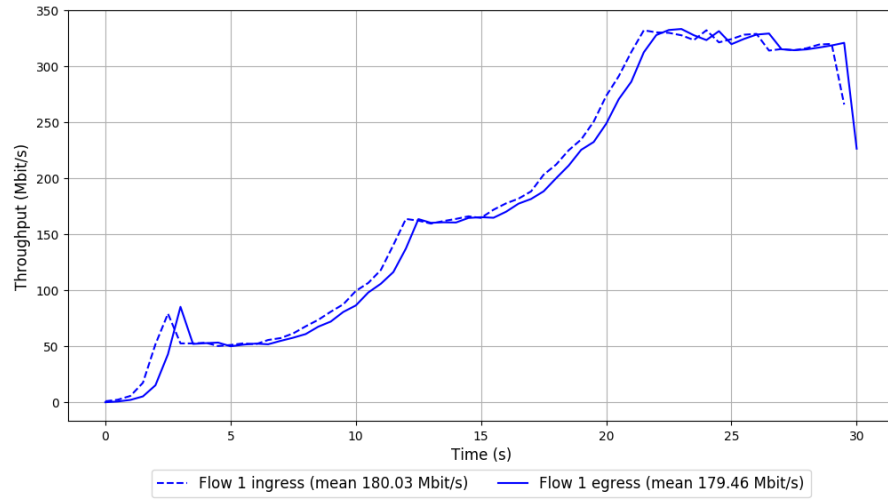
Run 3: Report of PCC-Vivace — Data Link

```
Run 4: Statistics of PCC-Vivace

Start at: 2019-03-27 18:06:03
End at: 2019-03-27 18:06:33
Local clock offset: -0.131 ms
Remote clock offset: 0.375 ms


# Below is generated by plot.py at 2019-03-27 20:38:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 196.75 Mbit/s
95th percentile per-packet one-way delay: 61.523 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 196.75 Mbit/s
95th percentile per-packet one-way delay: 61.523 ms
Loss rate: 0.72%
```
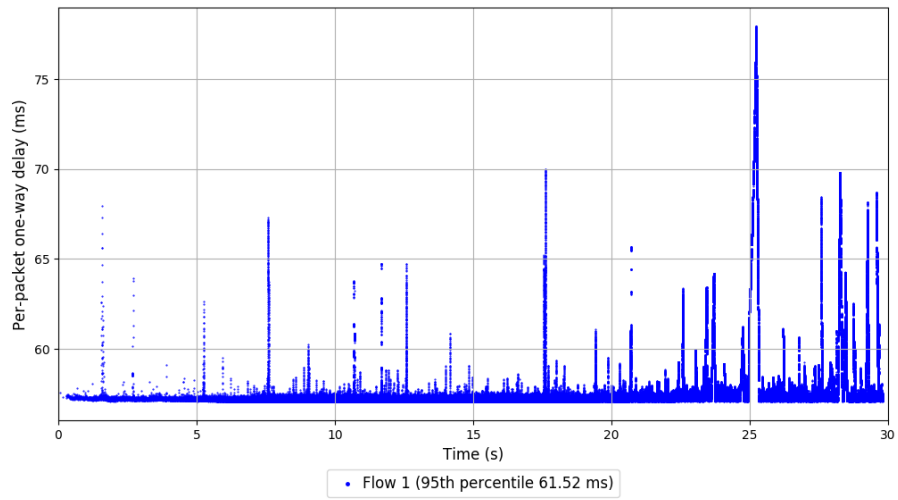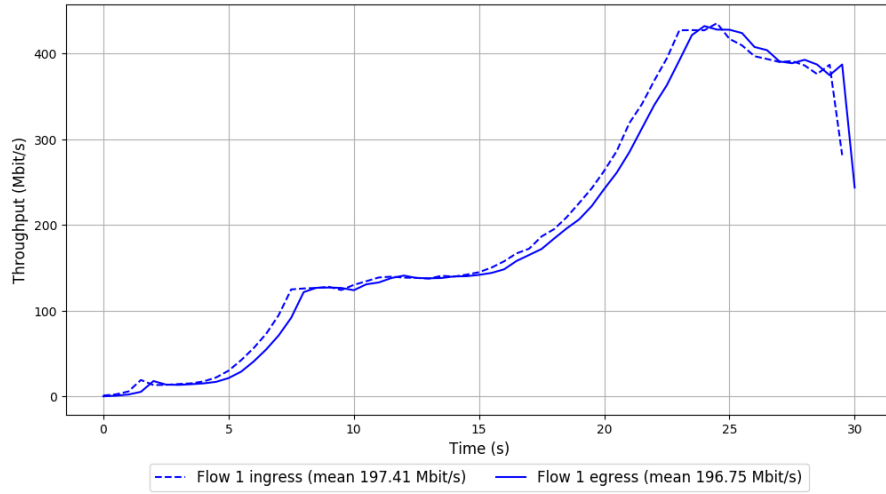
Run 4: Report of PCC-Vivace — Data Link

```
Run 5: Statistics of PCC-Vivace

Start at: 2019-03-27 18:38:23
End at: 2019-03-27 18:38:54
Local clock offset: 0.343 ms
Remote clock offset: -0.487 ms


# Below is generated by plot.py at 2019-03-27 20:38:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 186.98 Mbit/s
95th percentile per-packet one-way delay: 61.507 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 186.98 Mbit/s
95th percentile per-packet one-way delay: 61.507 ms
Loss rate: 0.67%
```
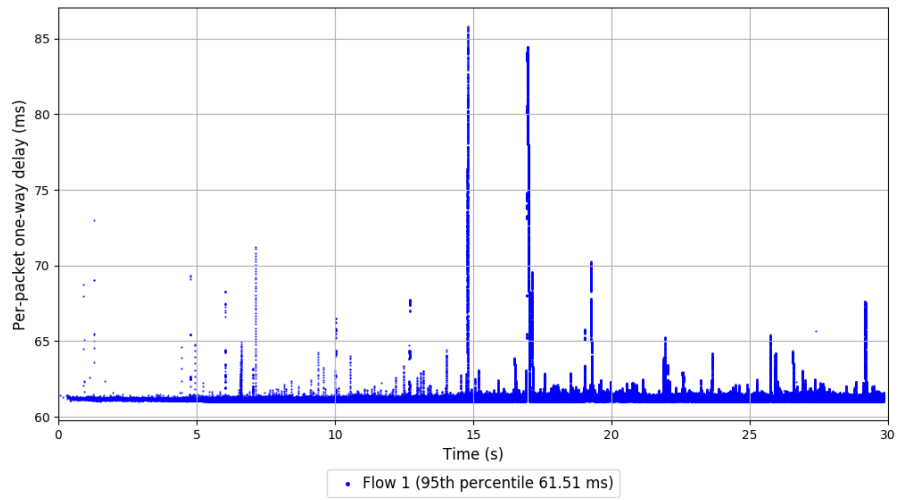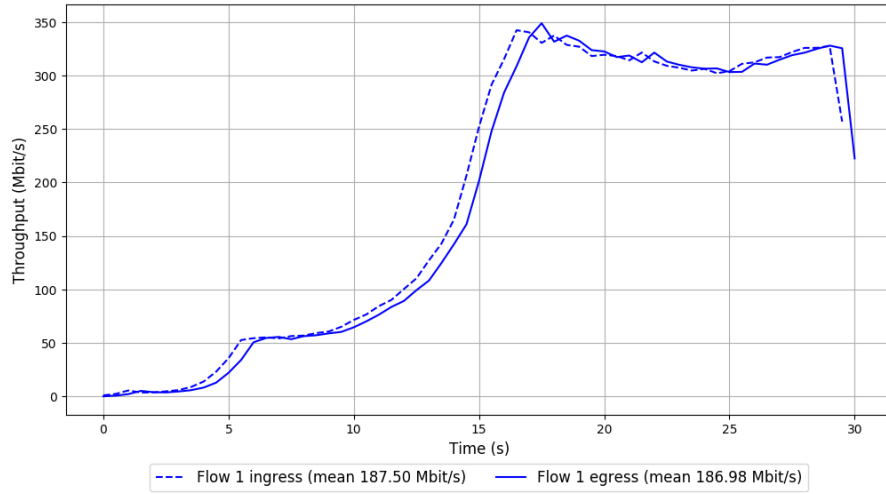
Run 5: Report of PCC-Vivace — Data Link
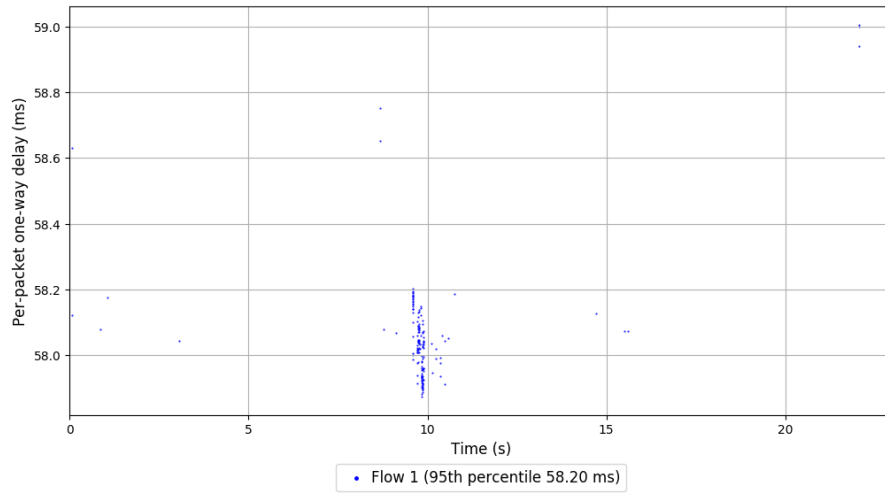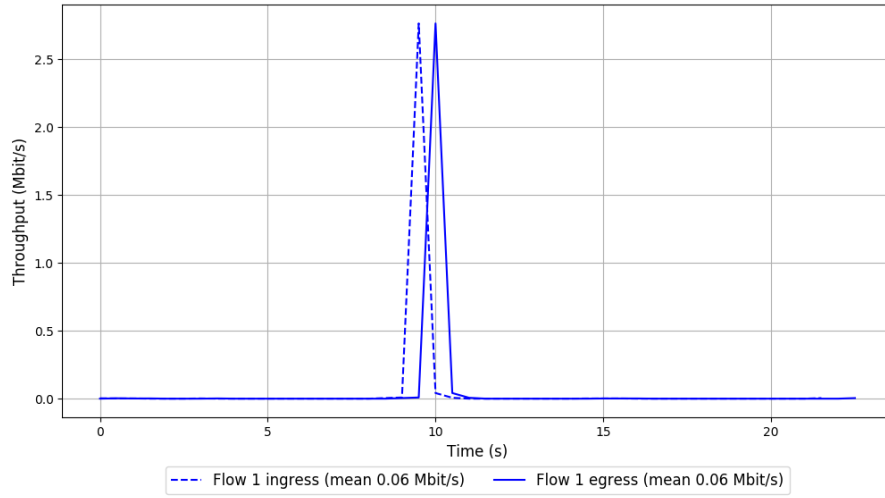
Run 1: Statistics of WebRTC media

Start at: 2019-03-27 16:11:19
End at: 2019-03-27 16:11:49
Local clock offset: -0.193 ms
Remote clock offset: -0.617 ms

Run 1: Report of WebRTC media — Data Link

```
Run 2: Statistics of WebRTC media

Start at: 2019-03-27 16:43:08
End at: 2019-03-27 16:43:38
Local clock offset: 0.171 ms
Remote clock offset: 0.068 ms


# Below is generated by plot.py at 2019-03-27 20:38:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 57.865 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 57.865 ms
Loss rate: 0.00%
```
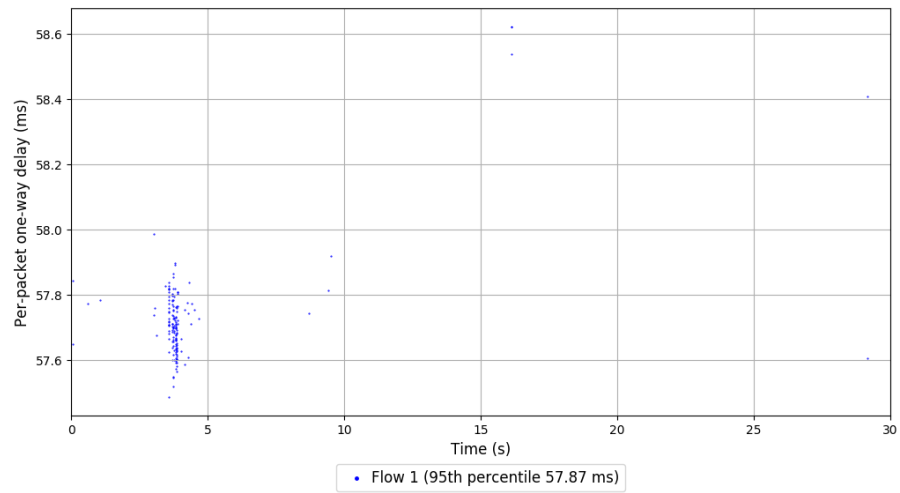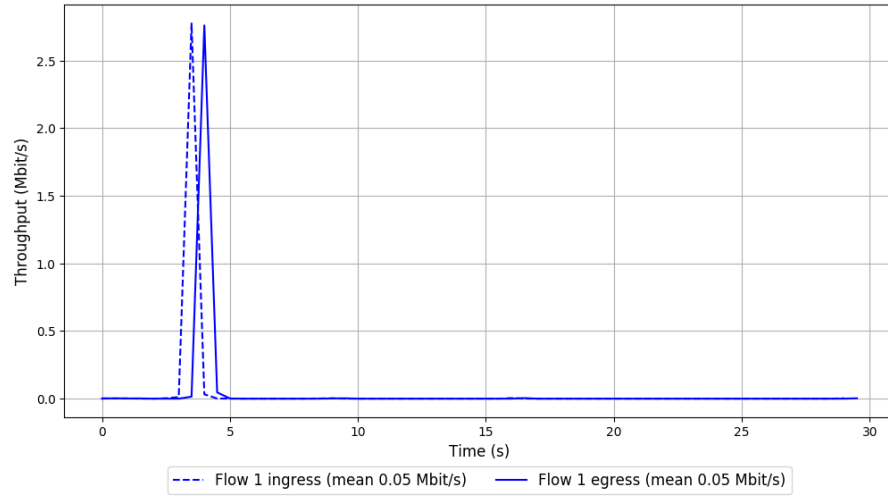
Run 2: Report of WebRTC media — Data Link

```
Run 3: Statistics of WebRTC media

Start at: 2019-03-27 17:15:25
End at: 2019-03-27 17:15:55
Local clock offset: -0.137 ms
Remote clock offset: -0.43 ms


# Below is generated by plot.py at 2019-03-27 20:38:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 61.503 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 61.503 ms
Loss rate: 0.00%
```
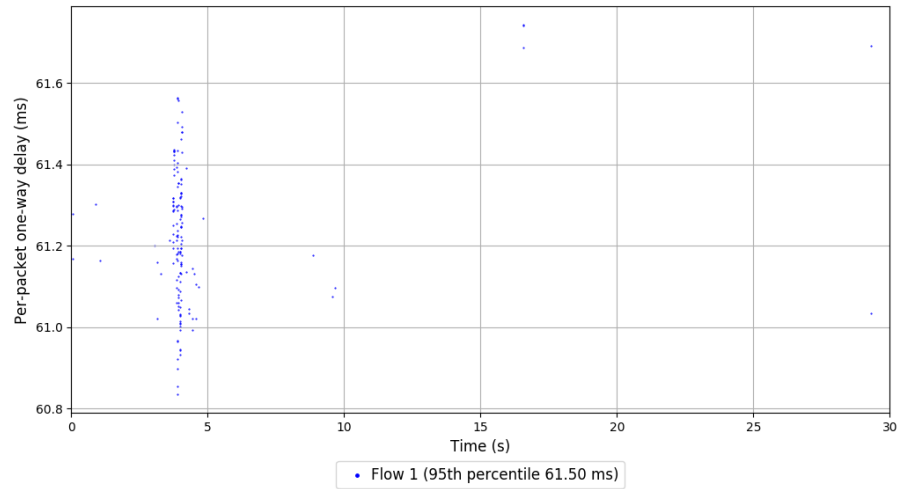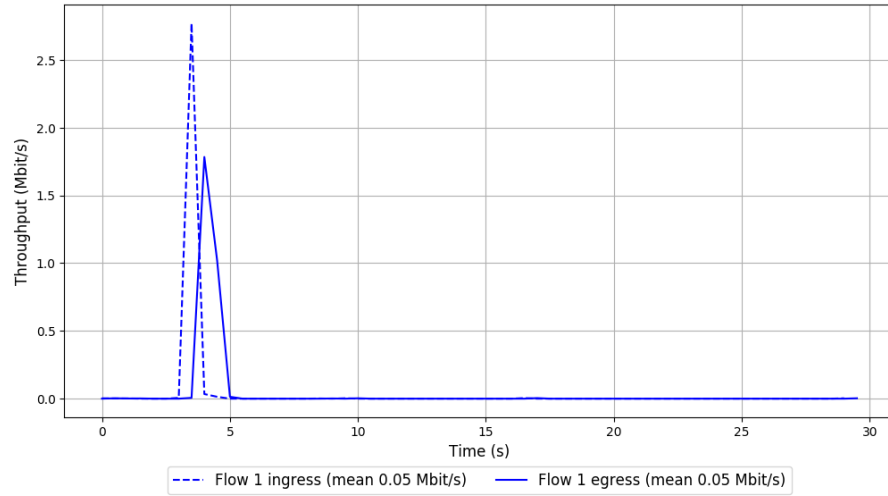
Run 3: Report of WebRTC media — Data Link

```
Run 4: Statistics of WebRTC media

Start at: 2019-03-27 17:45:58
End at: 2019-03-27 17:46:28
Local clock offset: 0.126 ms
Remote clock offset: 0.391 ms


# Below is generated by plot.py at 2019-03-27 20:38:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 57.489 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 57.489 ms
Loss rate: 0.00%
```
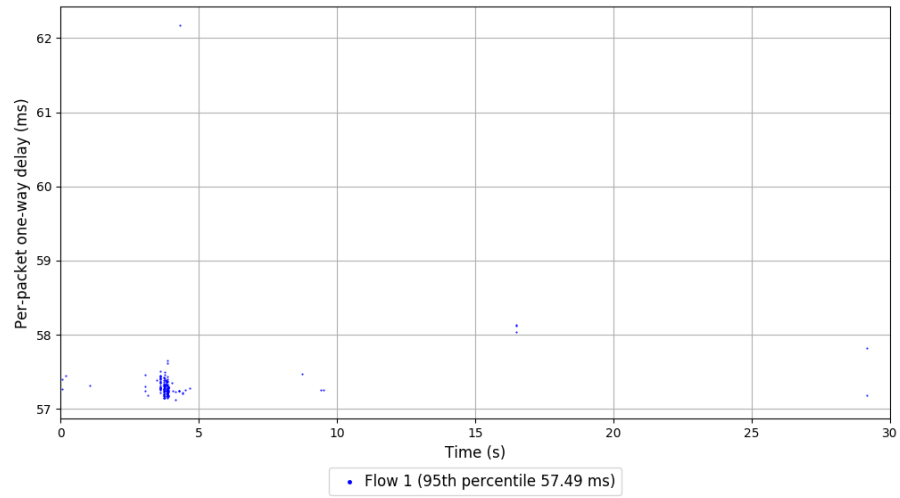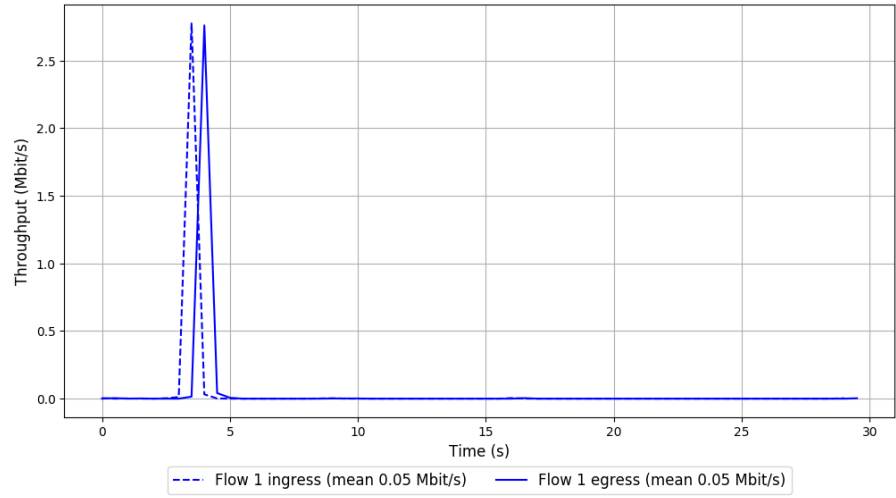
Run 4: Report of WebRTC media — Data Link

```
Run 5: Statistics of WebRTC media

Start at: 2019-03-27 18:16:51
End at: 2019-03-27 18:17:21
Local clock offset: -0.346 ms
Remote clock offset: -0.086 ms


# Below is generated by plot.py at 2019-03-27 20:38:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 57.102 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 57.102 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link