Pantheon Report

Generated at 2019-02-12 04:00:55 (UTC).

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

Repeated the test of 21 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

NTP offsets were measured against `time.google.com` and have been applied to correct the timestamps in logs.
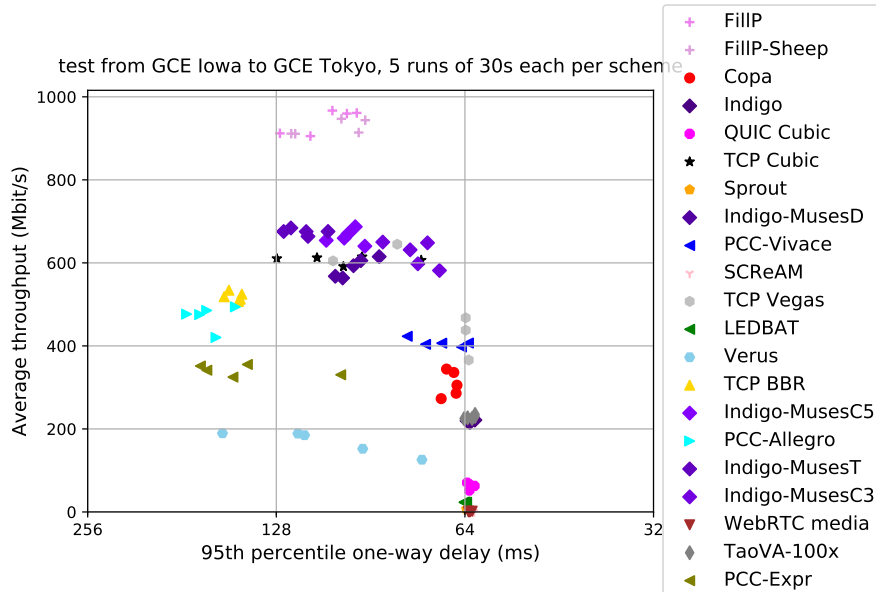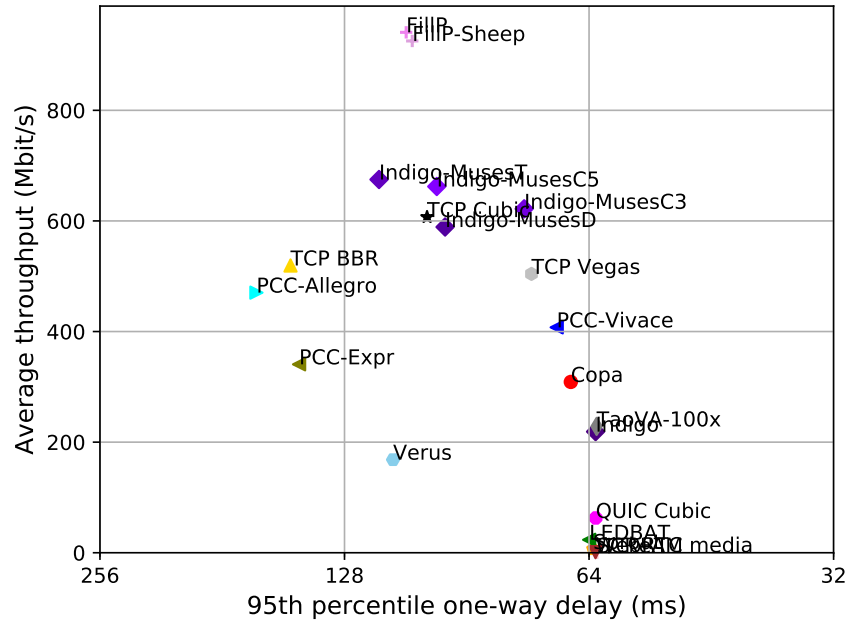
```
System info:
Linux 4.15.0-1026-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912

Git summary:
branch: muses @ 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 Iowa to GCE Tokyo, 5 runs of 30s each per scheme
(mean of all runs by scheme)

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

scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	519.45	149.17	0.64
Copa	5	308.89	67.39	0.00
TCP Cubic	5	606.99	101.30	0.06
FillP	5	941.03	107.47	0.58
FillP-Sheep	5	925.40	105.64	0.44
Indigo	4	218.97	62.82	0.00
Indigo-MusesC3	5	621.88	76.92	0.03
Indigo-MusesC5	5	662.26	98.54	0.05
Indigo-MusesD	5	589.02	96.25	0.04
Indigo-MusesT	5	674.90	116.07	0.07
LEDBAT	5	23.42	63.98	0.00
PCC-Allegro	5	470.35	164.29	1.77
PCC-Expr	5	340.71	145.59	2.28
QUIC Cubic	4	62.90	62.80	0.00
SCReAM	5	0.22	62.58	0.00
Sprout	5	6.73	63.27	0.00
TaoVA-100x	5	228.46	62.64	0.00
TCP Vegas	5	504.20	75.34	0.02
Verus	5	168.31	111.55	0.06
PCC-Vivace	5	407.56	70.15	0.08
WebRTC media	4	1.04	62.84	0.00

4

```
Run 1: Statistics of TCP BBR

Start at: 2019-02-11 22:48:32
End at: 2019-02-11 22:49:03
Local clock offset: -0.017 ms
Remote clock offset: 0.541 ms


# Below is generated by plot.py at 2019-02-12 01:48:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 512.61 Mbit/s
95th percentile per-packet one-way delay: 146.127 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 512.61 Mbit/s
95th percentile per-packet one-way delay: 146.127 ms
Loss rate: 0.55%
```
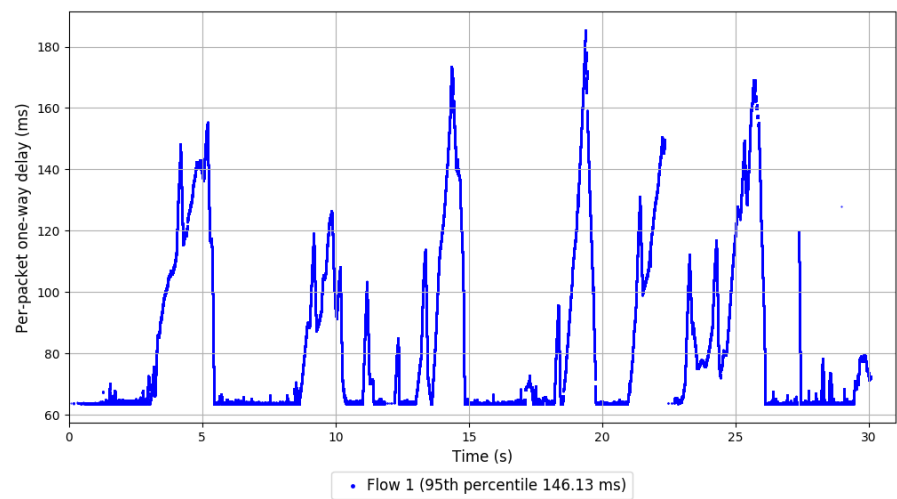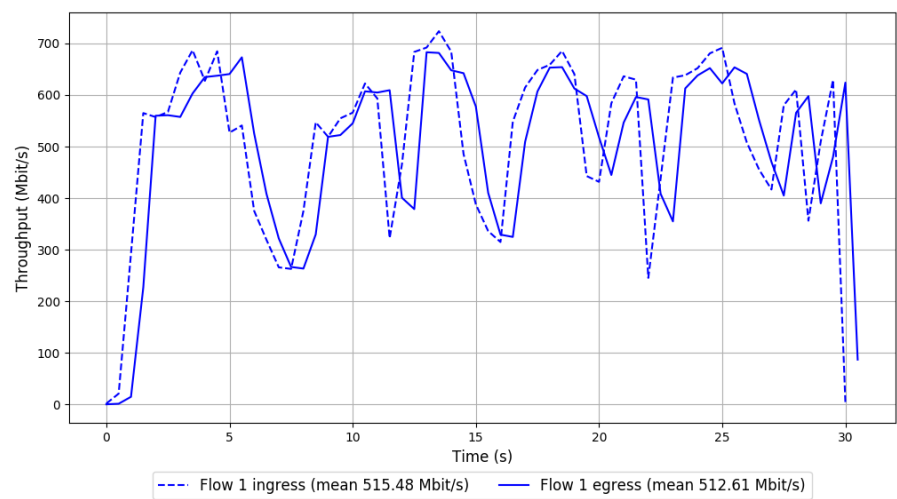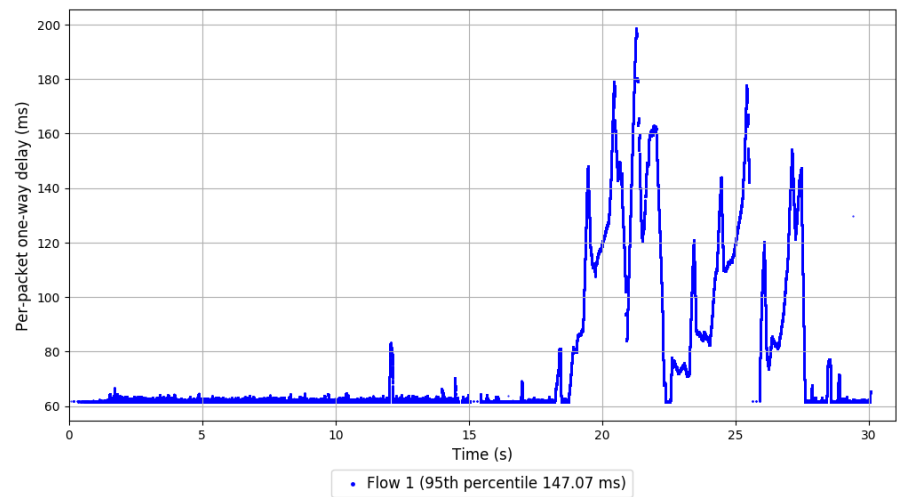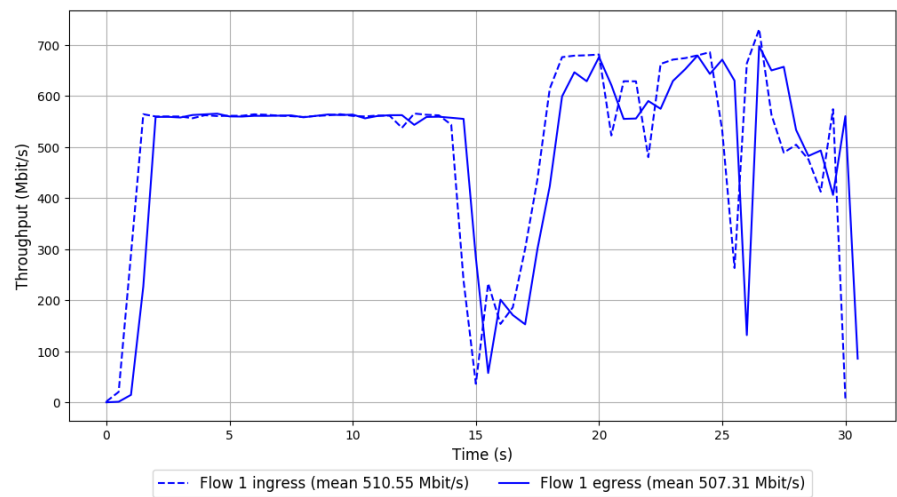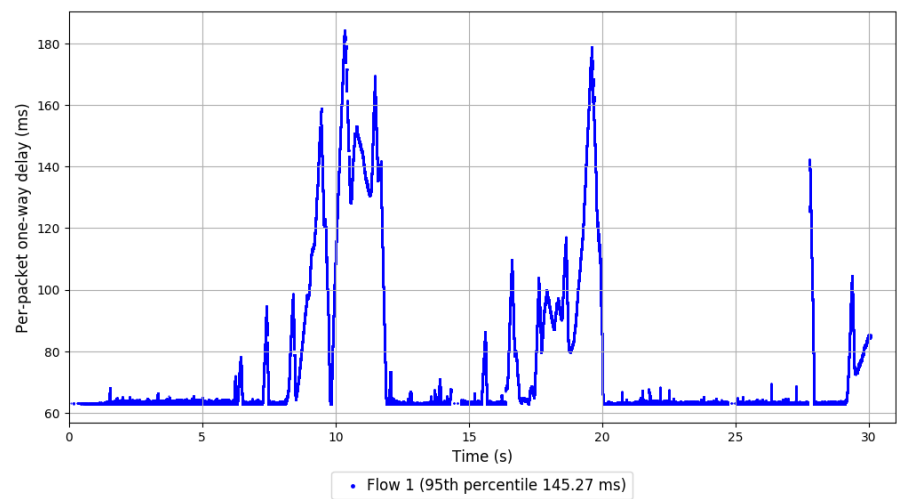
Run 1: Report of TCP BBR — Data Link

```
Run 2: Statistics of TCP BBR

Start at: 2019-02-11 23:20:05
End at: 2019-02-11 23:20:35
Local clock offset: 0.004 ms
Remote clock offset: -1.459 ms


# Below is generated by plot.py at 2019-02-12 01:48:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 507.31 Mbit/s
95th percentile per-packet one-way delay: 147.067 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 507.31 Mbit/s
95th percentile per-packet one-way delay: 147.067 ms
Loss rate: 0.63%
```
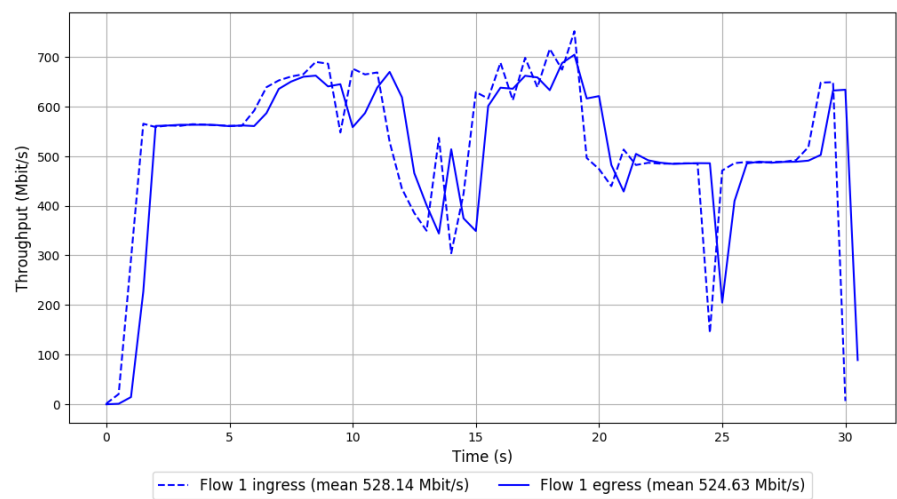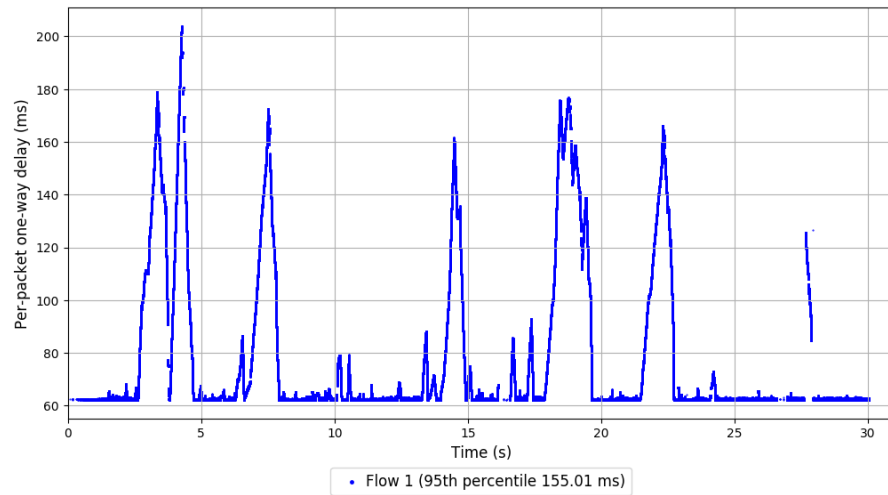
Run 2: Report of TCP BBR — Data Link

```
Run 3: Statistics of TCP BBR

Start at: 2019-02-11 23:51:32
End at: 2019-02-11 23:52:02
Local clock offset: -0.051 ms
Remote clock offset: 0.044 ms


# Below is generated by plot.py at 2019-02-12 01:48:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 524.63 Mbit/s
95th percentile per-packet one-way delay: 145.273 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 524.63 Mbit/s
95th percentile per-packet one-way delay: 145.273 ms
Loss rate: 0.66%
```
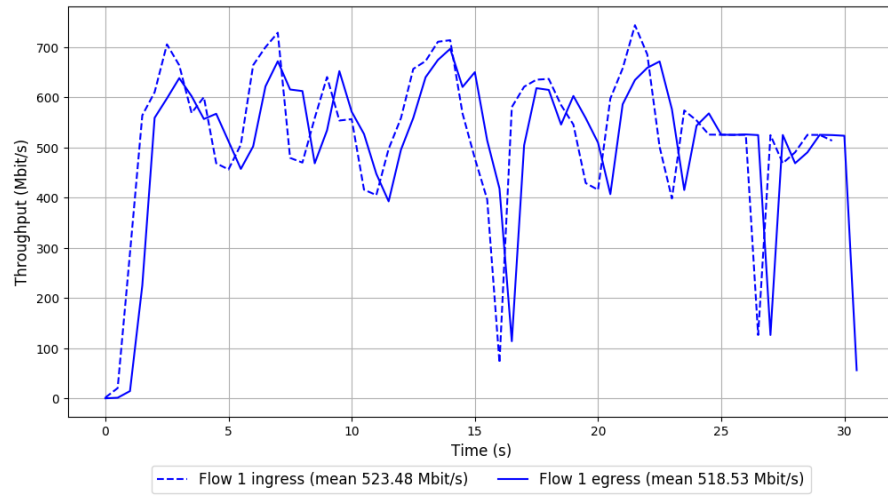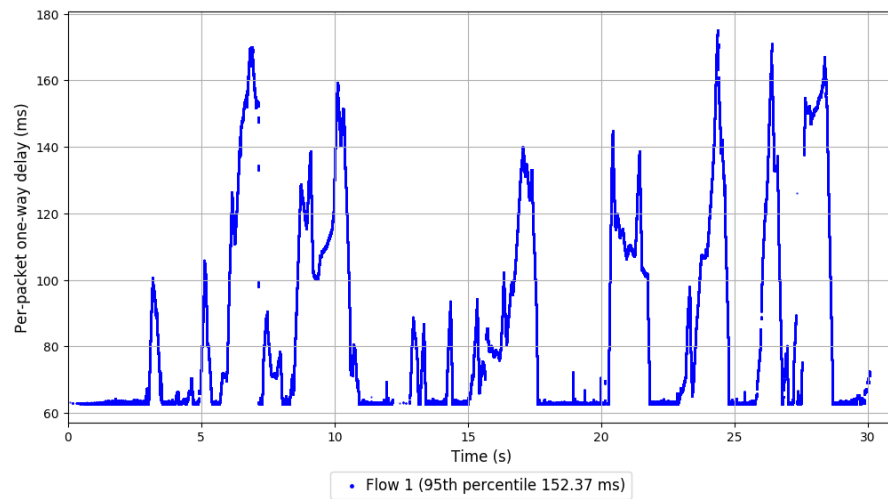
Run 3: Report of TCP BBR — Data Link

Flow 1 ingress (mean 528.14 Mbit/s) — — — Flow 1 egress (mean 524.63 Mbit/s) ———
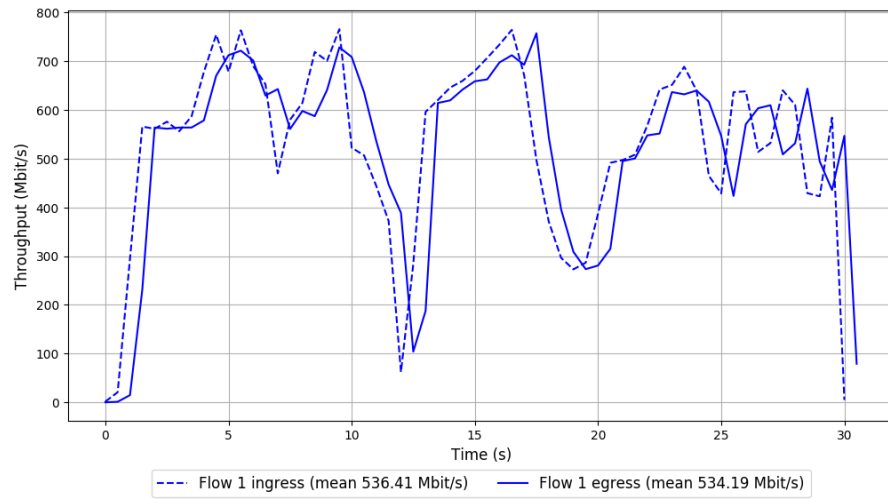

Flow 1 (95th percentile 145.27 ms)

```
Run 4: Statistics of TCP BBR

Start at: 2019-02-12 00:22:58
End at: 2019-02-12 00:23:28
Local clock offset: -0.1 ms
Remote clock offset: -0.646 ms


# Below is generated by plot.py at 2019-02-12 01:48:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 518.53 Mbit/s
95th percentile per-packet one-way delay: 155.015 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 518.53 Mbit/s
95th percentile per-packet one-way delay: 155.015 ms
Loss rate: 0.95%
```
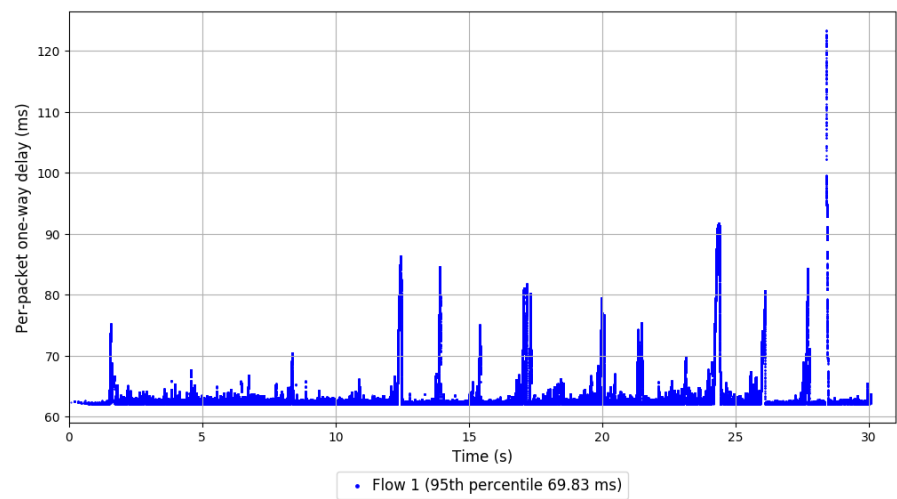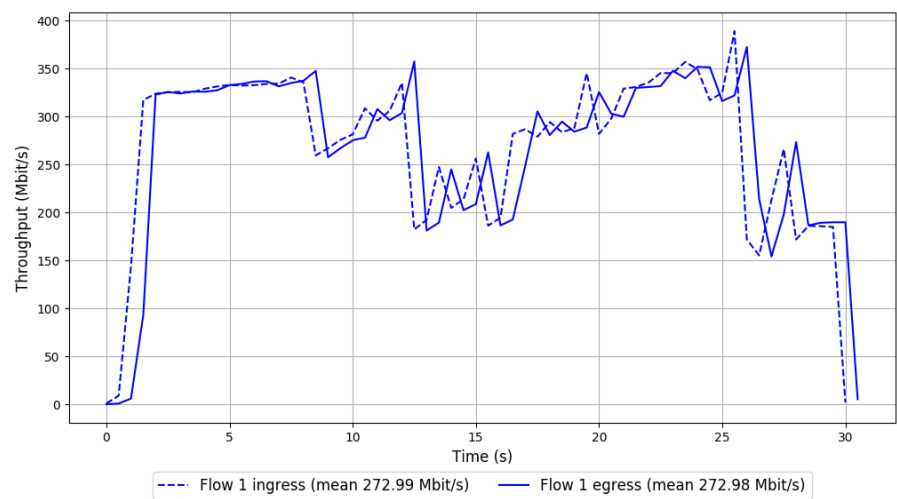
Run 4: Report of TCP BBR — Data Link

```
Run 5: Statistics of TCP BBR

Start at: 2019-02-12 00:54:22
End at: 2019-02-12 00:54:52
Local clock offset: -0.095 ms
Remote clock offset: -0.086 ms


# Below is generated by plot.py at 2019-02-12 01:48:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 534.19 Mbit/s
95th percentile per-packet one-way delay: 152.367 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 534.19 Mbit/s
95th percentile per-packet one-way delay: 152.367 ms
Loss rate: 0.41%
```

Run 5: Report of TCP BBR — Data Link

Flow 1 ingress (mean 536.41 Mbit/s) ——— Flow 1 egress (mean 534.19 Mbit/s)
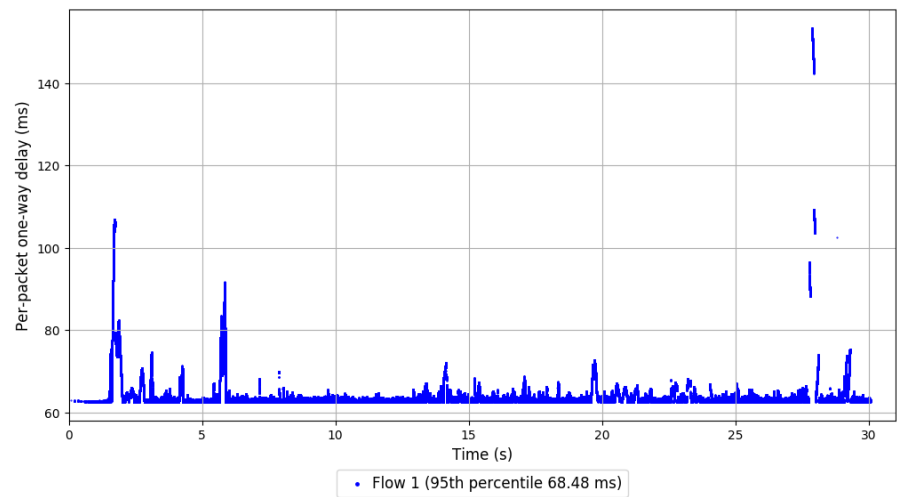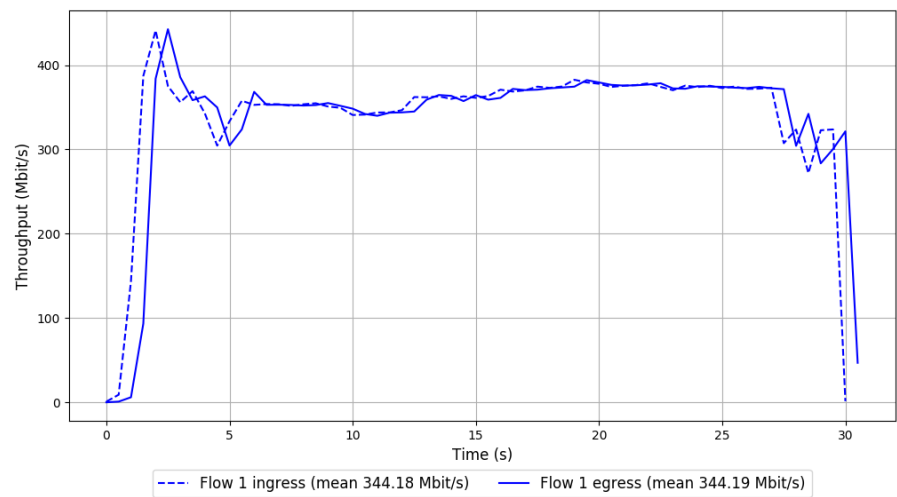

• Flow 1 (95th percentile 152.37 ms)

```
Run 1: Statistics of Copa

Start at: 2019-02-11 23:09:45
End at: 2019-02-11 23:10:15
Local clock offset: 0.013 ms
Remote clock offset: -0.725 ms


# Below is generated by plot.py at 2019-02-12 01:48:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 272.98 Mbit/s
95th percentile per-packet one-way delay: 69.832 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 272.98 Mbit/s
95th percentile per-packet one-way delay: 69.832 ms
Loss rate: 0.00%
```
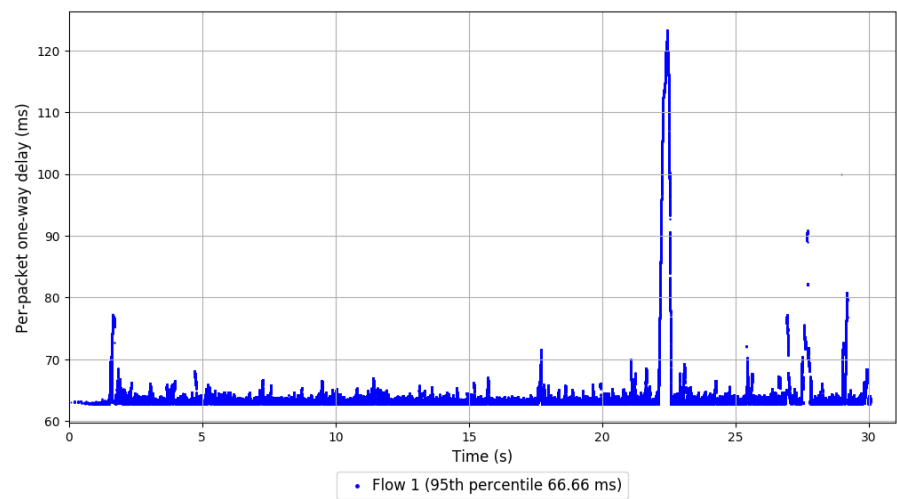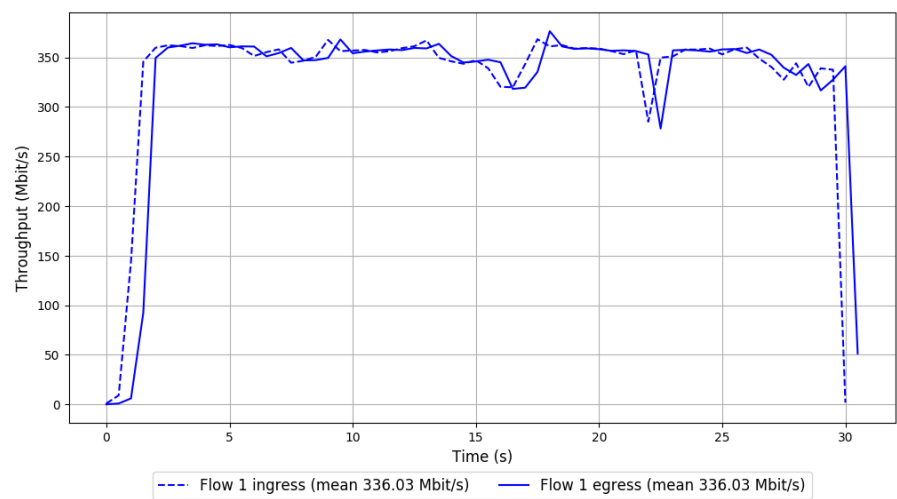
Run 1: Report of Copa — Data Link

Flow 1 ingress (mean 272.99 Mbit/s)   Flow 1 egress (mean 272.98 Mbit/s)

Flow 1 (95th percentile 69.83 ms)

```
Run 2: Statistics of Copa

Start at: 2019-02-11 23:41:16
End at: 2019-02-11 23:41:46
Local clock offset: -0.011 ms
Remote clock offset: -0.351 ms

# Below is generated by plot.py at 2019-02-12 01:50:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 344.19 Mbit/s
95th percentile per-packet one-way delay: 68.478 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 344.19 Mbit/s
95th percentile per-packet one-way delay: 68.478 ms
Loss rate: 0.00%
```
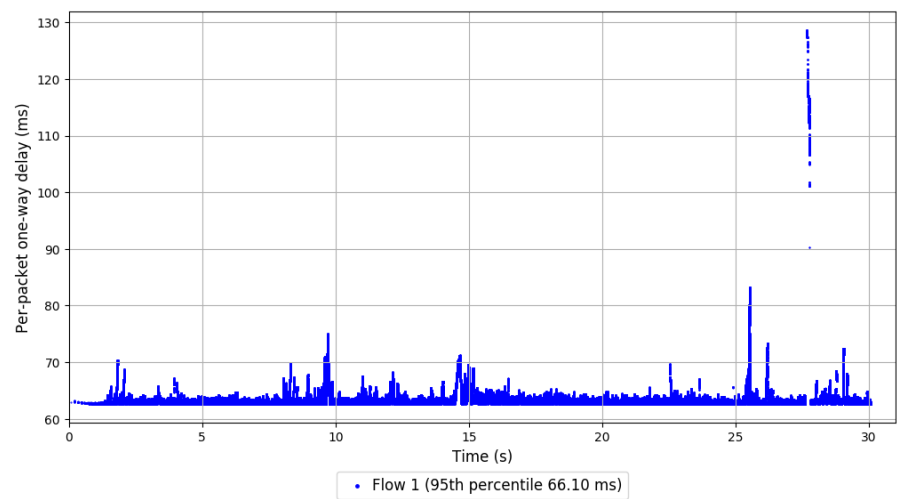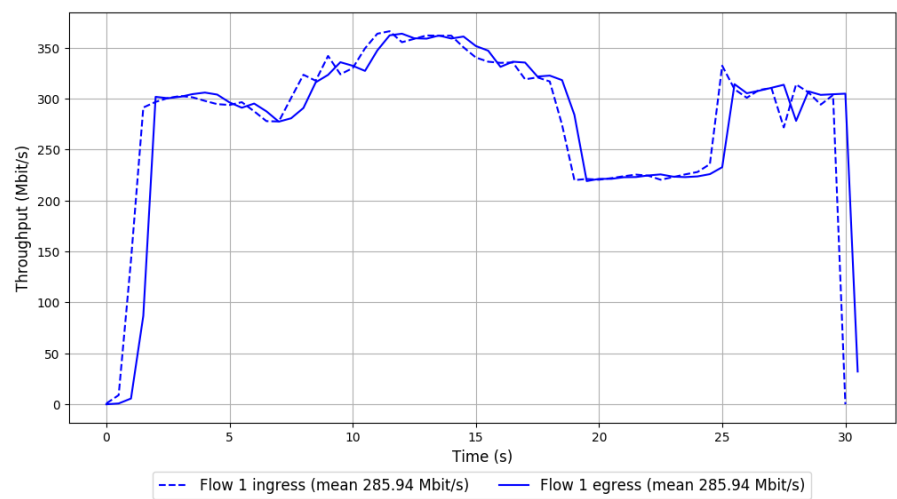
Run 2: Report of Copa — Data Link

```
Run 3: Statistics of Copa

Start at: 2019-02-12 00:12:35
End at: 2019-02-12 00:13:05
Local clock offset: -0.143 ms
Remote clock offset: -0.002 ms


# Below is generated by plot.py at 2019-02-12 01:50:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 336.03 Mbit/s
95th percentile per-packet one-way delay: 66.662 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 336.03 Mbit/s
95th percentile per-packet one-way delay: 66.662 ms
Loss rate: 0.00%
```
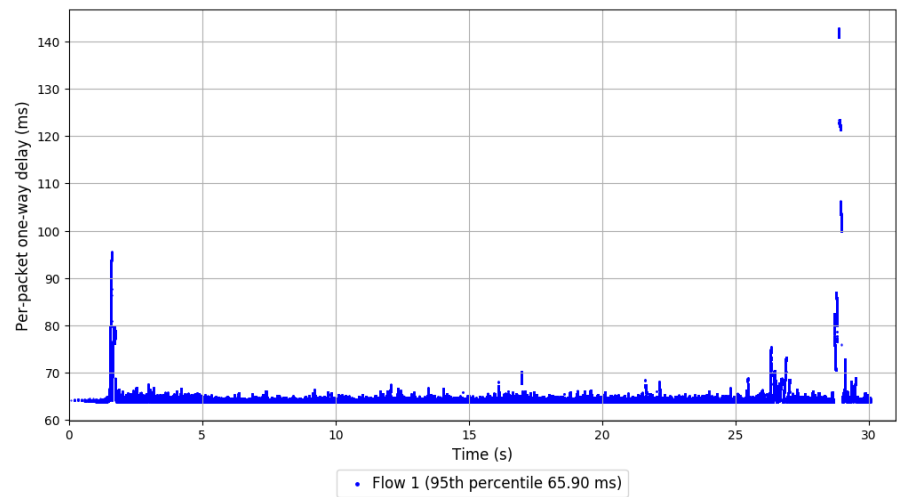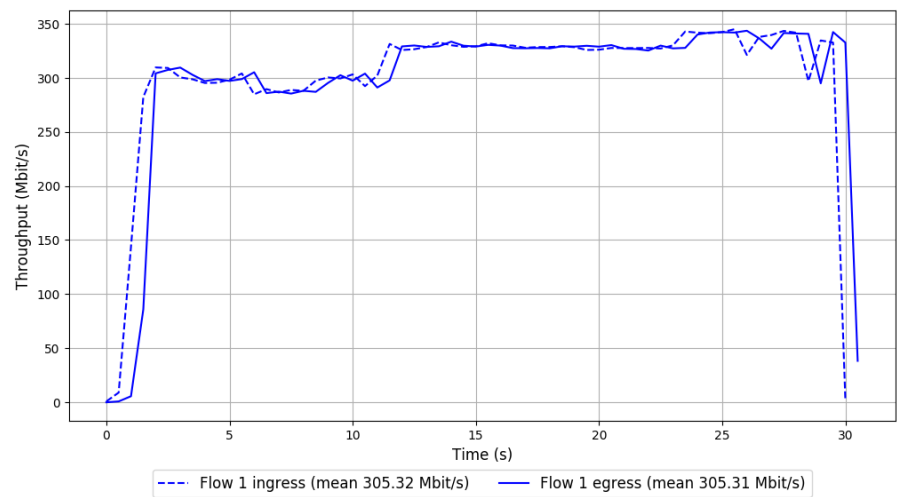
Run 3: Report of Copa — Data Link

```
Run 4: Statistics of Copa

Start at: 2019-02-12 00:44:14
End at: 2019-02-12 00:44:44
Local clock offset: -0.1 ms
Remote clock offset: -0.511 ms


# Below is generated by plot.py at 2019-02-12 02:00:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 285.94 Mbit/s
95th percentile per-packet one-way delay: 66.102 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 285.94 Mbit/s
95th percentile per-packet one-way delay: 66.102 ms
Loss rate: 0.00%
```
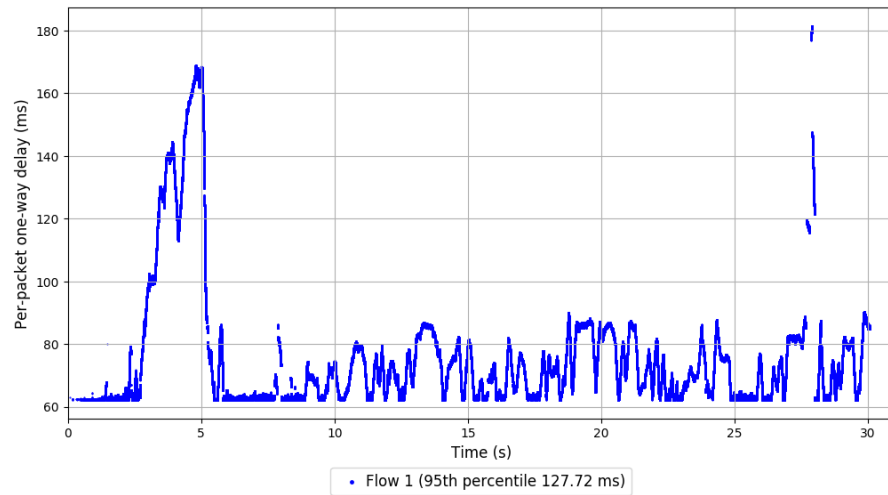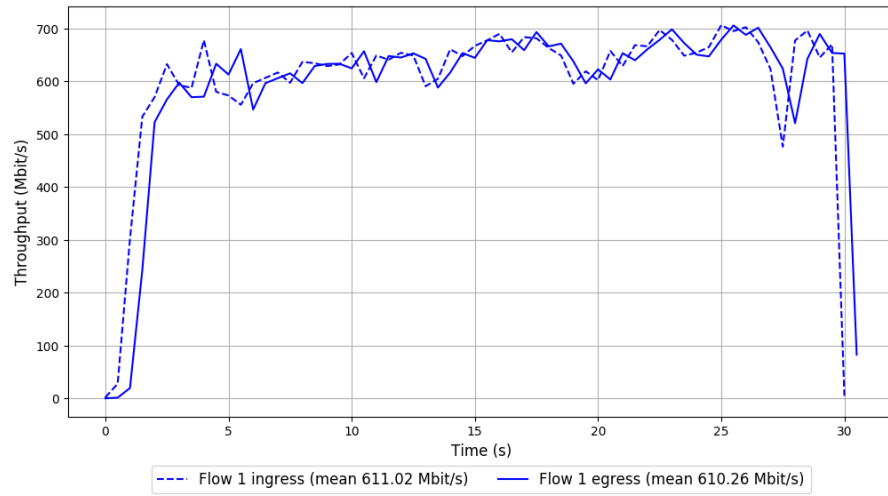
Run 4: Report of Copa — Data Link

```
Run 5: Statistics of Copa

Start at: 2019-02-12 01:15:40
End at: 2019-02-12 01:16:10
Local clock offset: -0.133 ms
Remote clock offset: 0.681 ms


# Below is generated by plot.py at 2019-02-12 02:01:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 305.31 Mbit/s
95th percentile per-packet one-way delay: 65.900 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 305.31 Mbit/s
95th percentile per-packet one-way delay: 65.900 ms
Loss rate: 0.00%
```

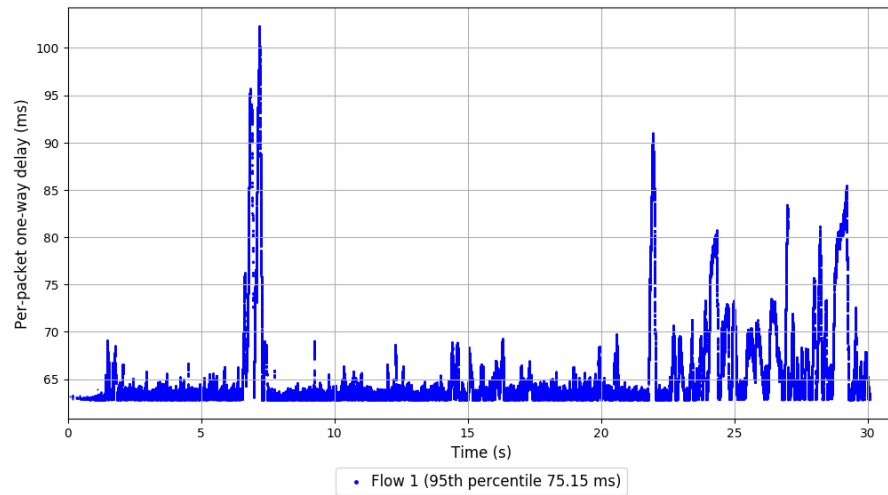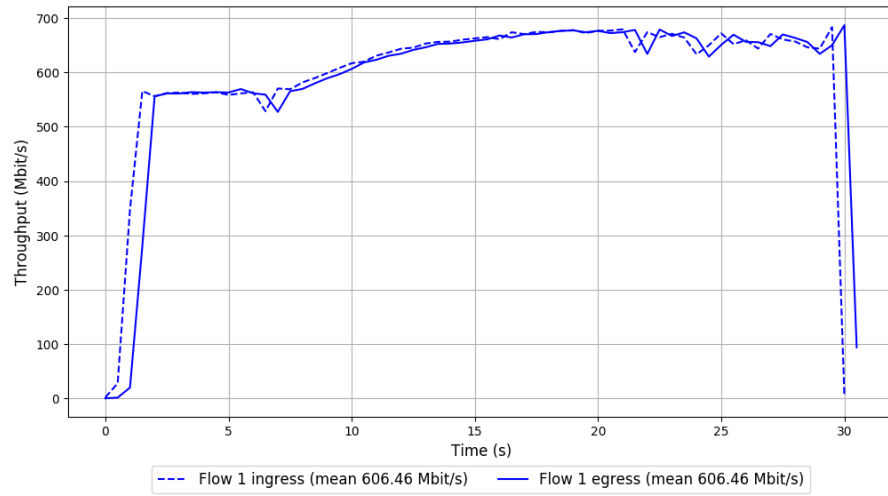Run 5: Report of Copa — Data Link

```
Run 1: Statistics of TCP Cubic

Start at: 2019-02-11 23:08:05
End at: 2019-02-11 23:08:35
Local clock offset: -0.014 ms
Remote clock offset: -0.711 ms


# Below is generated by plot.py at 2019-02-12 02:01:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 610.26 Mbit/s
95th percentile per-packet one-way delay: 127.720 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 610.26 Mbit/s
95th percentile per-packet one-way delay: 127.720 ms
Loss rate: 0.12%
```
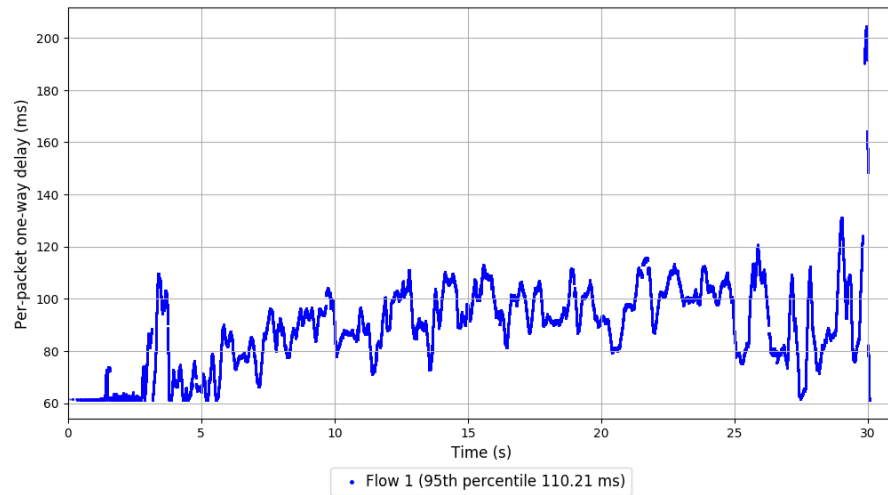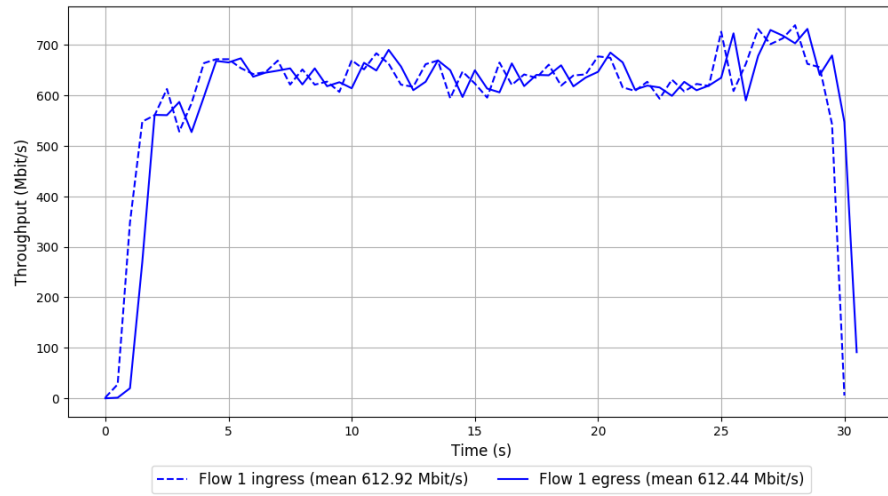
Run 1: Report of TCP Cubic — Data Link

```
Run 2: Statistics of TCP Cubic

Start at: 2019-02-11 23:39:39
End at: 2019-02-11 23:40:09
Local clock offset: 0.026 ms
Remote clock offset: -0.122 ms


# Below is generated by plot.py at 2019-02-12 02:02:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 606.46 Mbit/s
95th percentile per-packet one-way delay: 75.149 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 606.46 Mbit/s
95th percentile per-packet one-way delay: 75.149 ms
Loss rate: 0.00%
```

Run 2: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 606.46 Mbit/s) —— Flow 1 egress (mean 606.46 Mbit/s)

• Flow 1 (95th percentile 75.15 ms)

```
Run 3: Statistics of TCP Cubic

Start at: 2019-02-12 00:10:57
End at: 2019-02-12 00:11:27
Local clock offset: -0.021 ms
Remote clock offset: -1.493 ms


# Below is generated by plot.py at 2019-02-12 02:02:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 612.44 Mbit/s
95th percentile per-packet one-way delay: 110.214 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 612.44 Mbit/s
95th percentile per-packet one-way delay: 110.214 ms
Loss rate: 0.08%
```
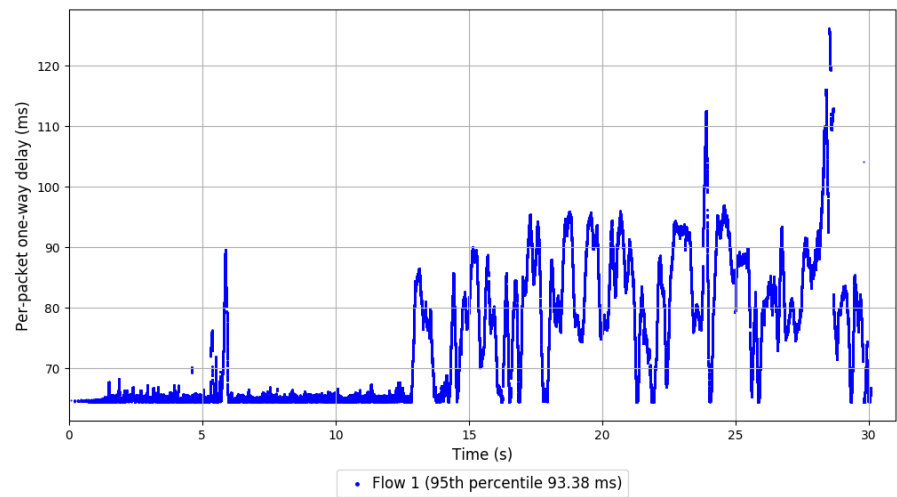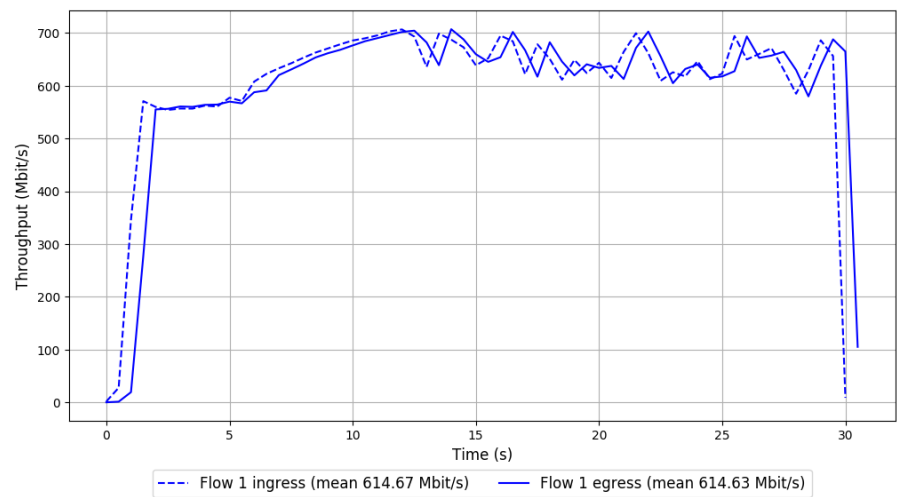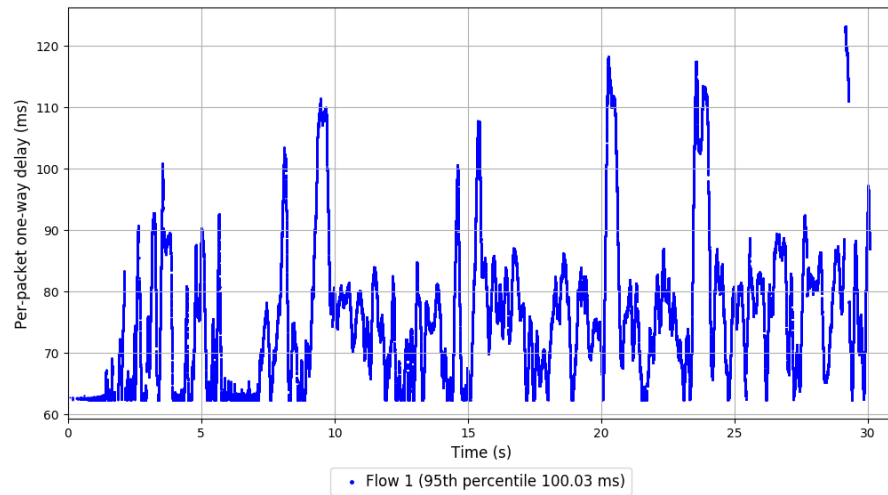
Run 3: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 612.92 Mbit/s)   Flow 1 egress (mean 612.44 Mbit/s)
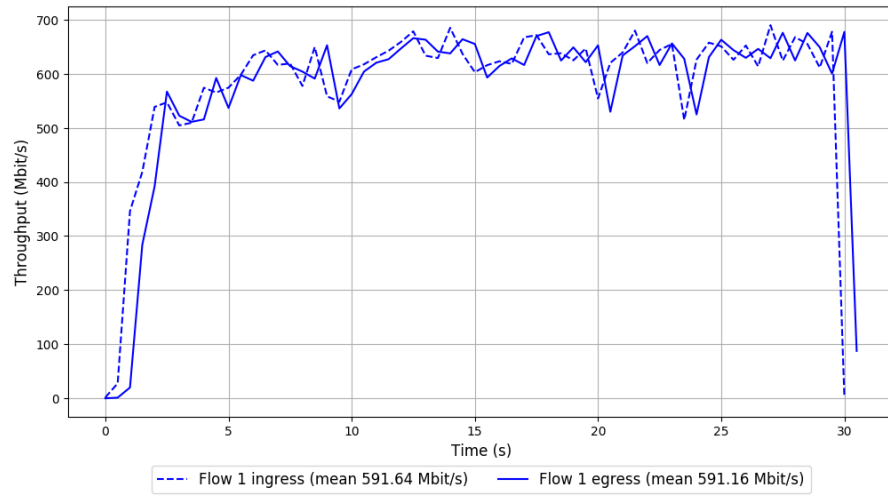

Flow 1 (95th percentile 110.21 ms)

```
Run 4: Statistics of TCP Cubic

Start at: 2019-02-12 00:42:35
End at: 2019-02-12 00:43:05
Local clock offset: -0.1 ms
Remote clock offset: 1.298 ms


# Below is generated by plot.py at 2019-02-12 02:02:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 614.63 Mbit/s
95th percentile per-packet one-way delay: 93.377 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 614.63 Mbit/s
95th percentile per-packet one-way delay: 93.377 ms
Loss rate: 0.01%
```
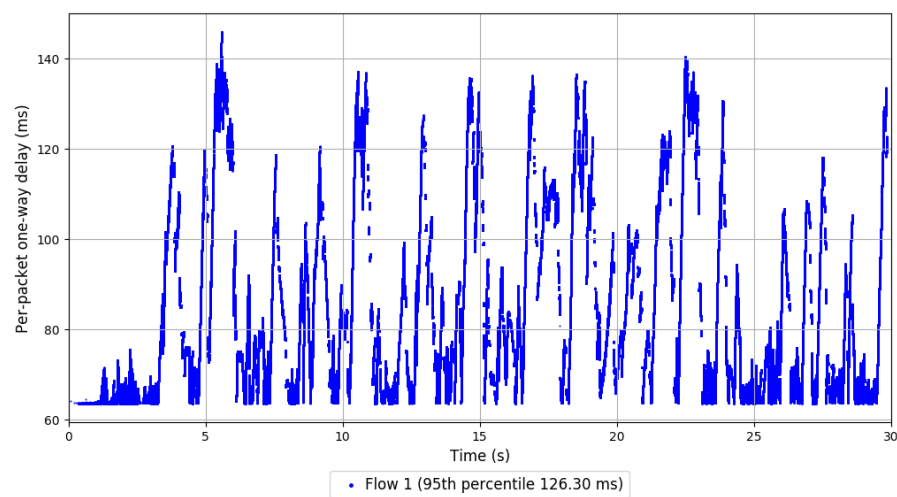
Run 4: Report of TCP Cubic — Data Link

```
Run 5: Statistics of TCP Cubic

Start at: 2019-02-12 01:14:02
End at: 2019-02-12 01:14:32
Local clock offset: -0.113 ms
Remote clock offset: -0.452 ms


# Below is generated by plot.py at 2019-02-12 02:03:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 591.16 Mbit/s
95th percentile per-packet one-way delay: 100.025 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 591.16 Mbit/s
95th percentile per-packet one-way delay: 100.025 ms
Loss rate: 0.08%
```
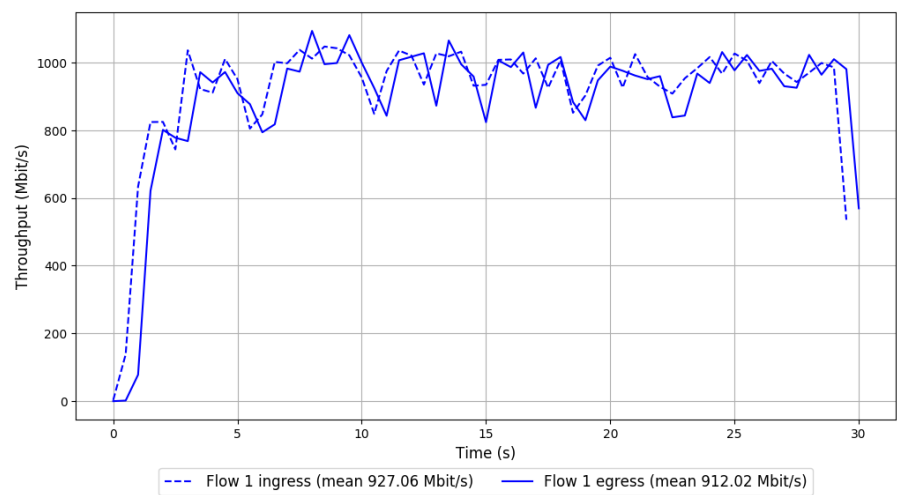
Run 5: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 591.64 Mbit/s)   Flow 1 egress (mean 591.16 Mbit/s)
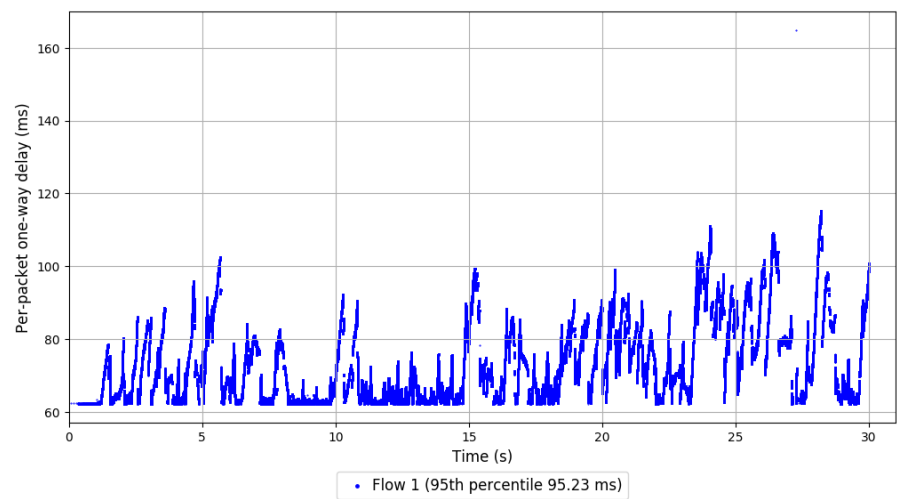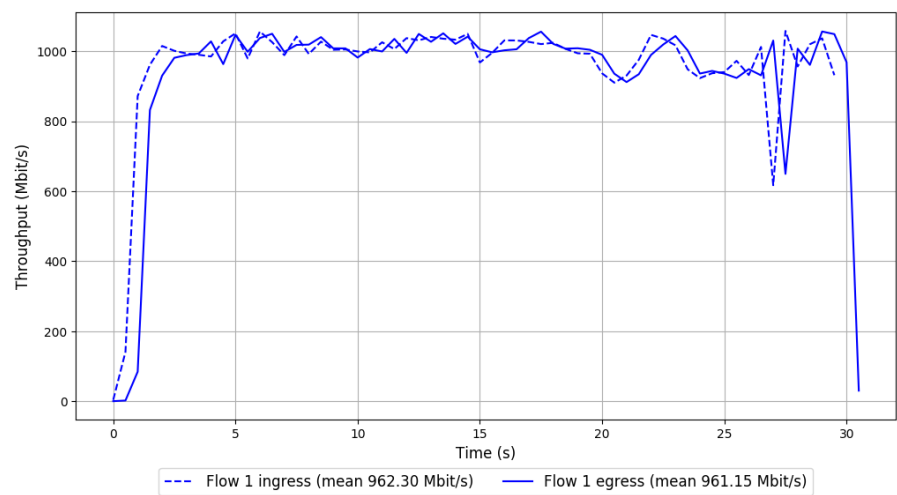

Flow 1 (95th percentile 100.03 ms)

```
Run 1: Statistics of FillP

Start at: 2019-02-11 23:15:43
End at: 2019-02-11 23:16:13
Local clock offset: -0.033 ms
Remote clock offset: 0.602 ms


# Below is generated by plot.py at 2019-02-12 02:12:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 912.02 Mbit/s
95th percentile per-packet one-way delay: 126.304 ms
Loss rate: 1.61%
-- Flow 1:
Average throughput: 912.02 Mbit/s
95th percentile per-packet one-way delay: 126.304 ms
Loss rate: 1.61%
```
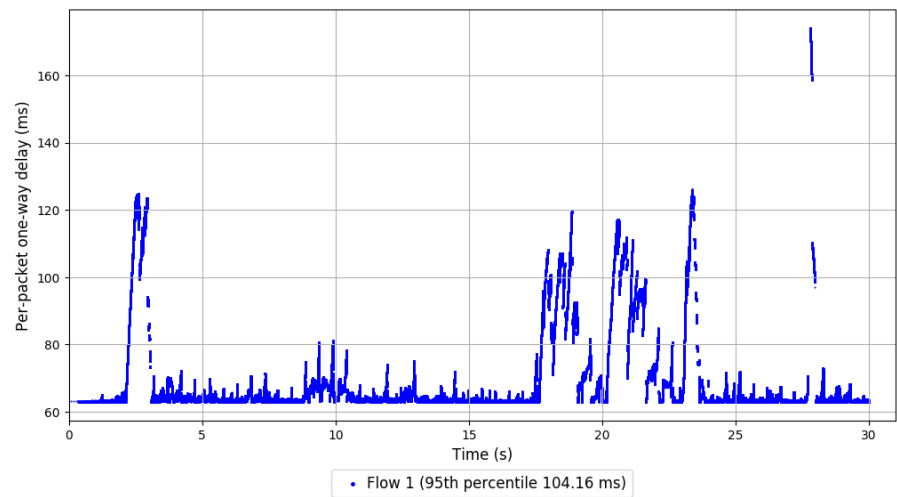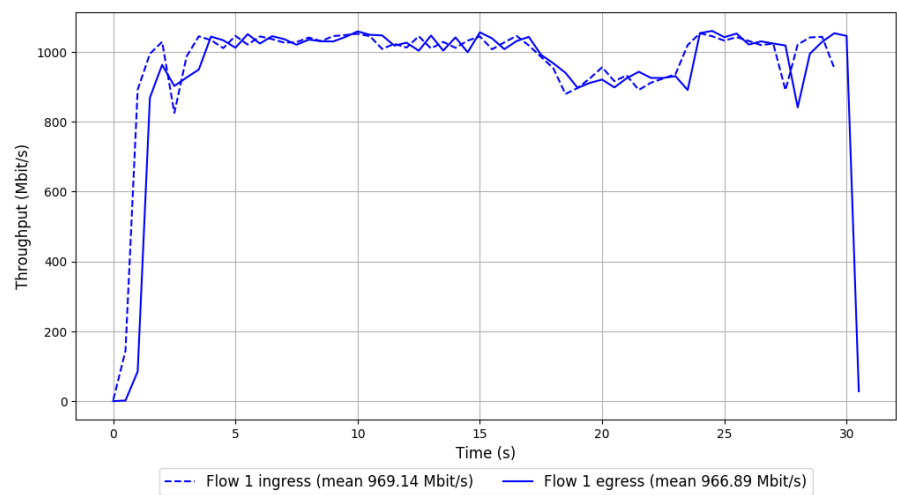
Run 1: Report of FillP — Data Link

Flow 1 ingress (mean 927.06 Mbit/s)   Flow 1 egress (mean 912.02 Mbit/s)

• Flow 1 (95th percentile 126.30 ms)

```
Run 2: Statistics of FillP

Start at: 2019-02-11 23:47:09
End at: 2019-02-11 23:47:39
Local clock offset: -0.037 ms
Remote clock offset: -0.766 ms


# Below is generated by plot.py at 2019-02-12 02:26:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 961.15 Mbit/s
95th percentile per-packet one-way delay: 95.234 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 961.15 Mbit/s
95th percentile per-packet one-way delay: 95.234 ms
Loss rate: 0.12%
```
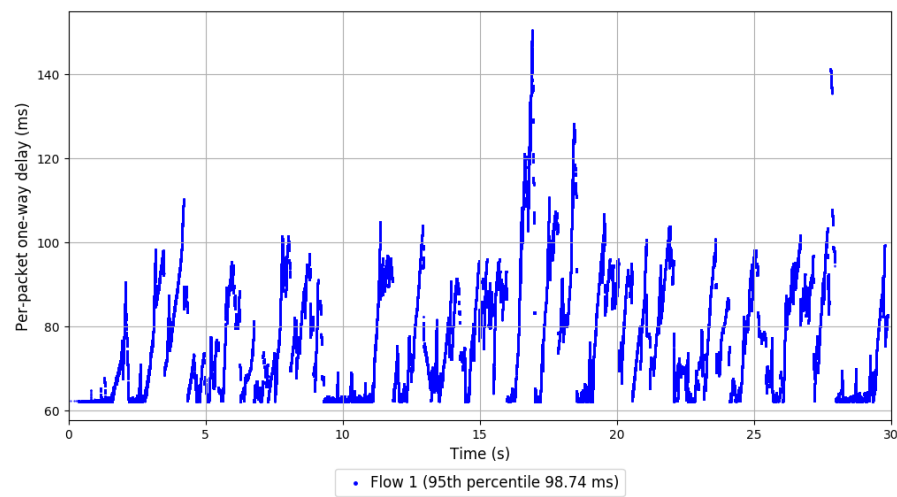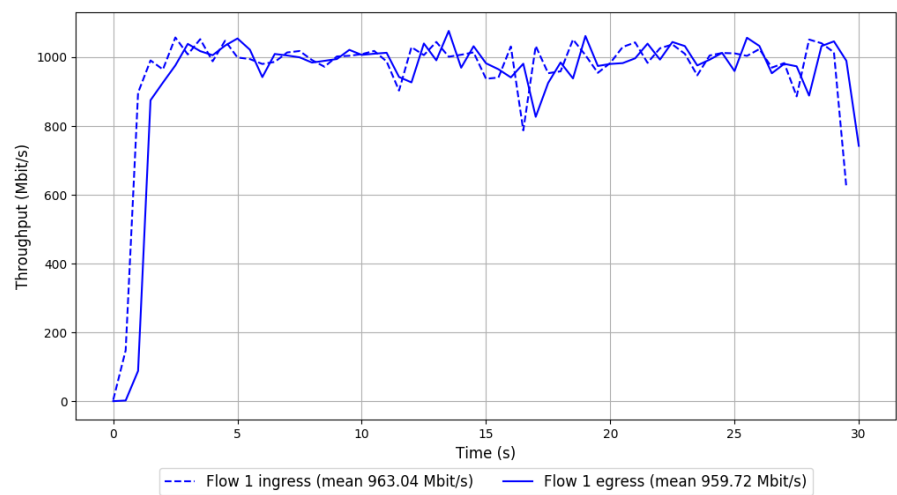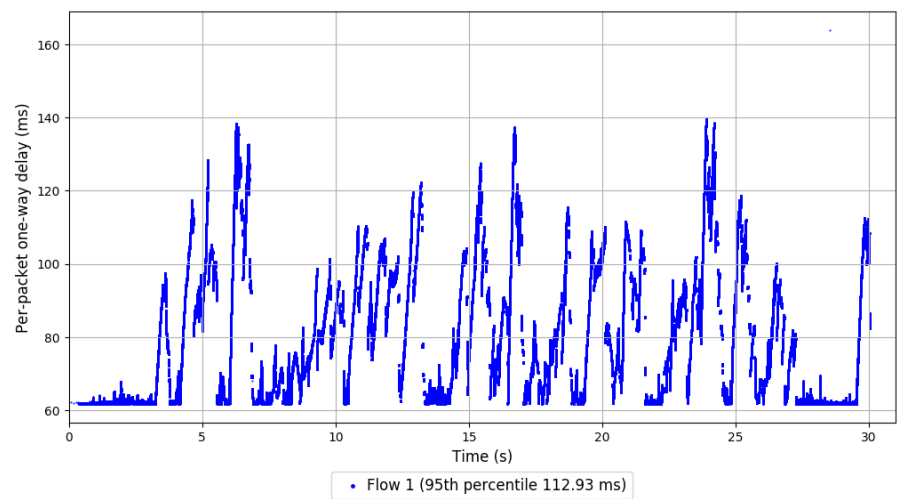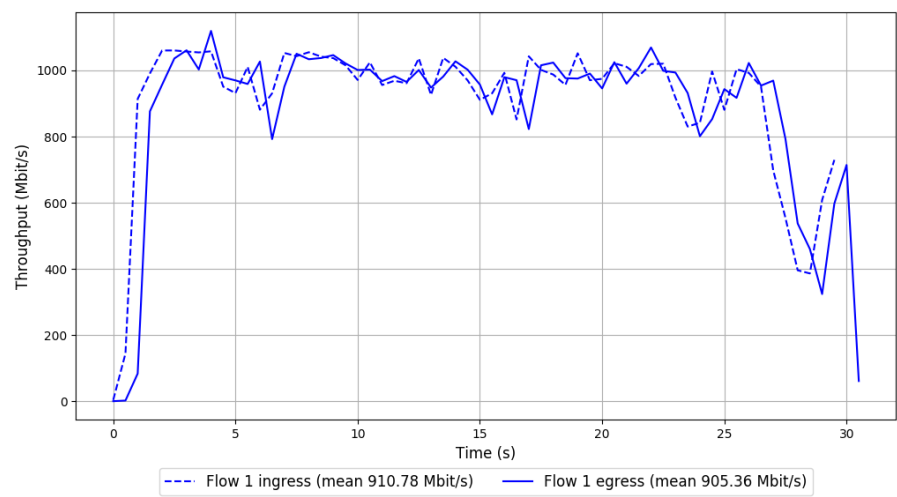
Run 2: Report of FillP — Data Link

```
Run 3: Statistics of FillP

Start at: 2019-02-12 00:18:30
End at: 2019-02-12 00:19:00
Local clock offset: -0.115 ms
Remote clock offset: 0.04 ms


# Below is generated by plot.py at 2019-02-12 02:27:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 966.89 Mbit/s
95th percentile per-packet one-way delay: 104.161 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 966.89 Mbit/s
95th percentile per-packet one-way delay: 104.161 ms
Loss rate: 0.23%
```

Run 3: Report of FillP — Data Link

Flow 1 ingress (mean 969.14 Mbit/s)   Flow 1 egress (mean 966.89 Mbit/s)

• Flow 1 (95th percentile 104.16 ms)

```
Run 4: Statistics of FillP

Start at: 2019-02-12 00:50:00
End at: 2019-02-12 00:50:30
Local clock offset: -0.091 ms
Remote clock offset: -0.68 ms


# Below is generated by plot.py at 2019-02-12 02:28:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 959.72 Mbit/s
95th percentile per-packet one-way delay: 98.744 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 959.72 Mbit/s
95th percentile per-packet one-way delay: 98.744 ms
Loss rate: 0.34%
```
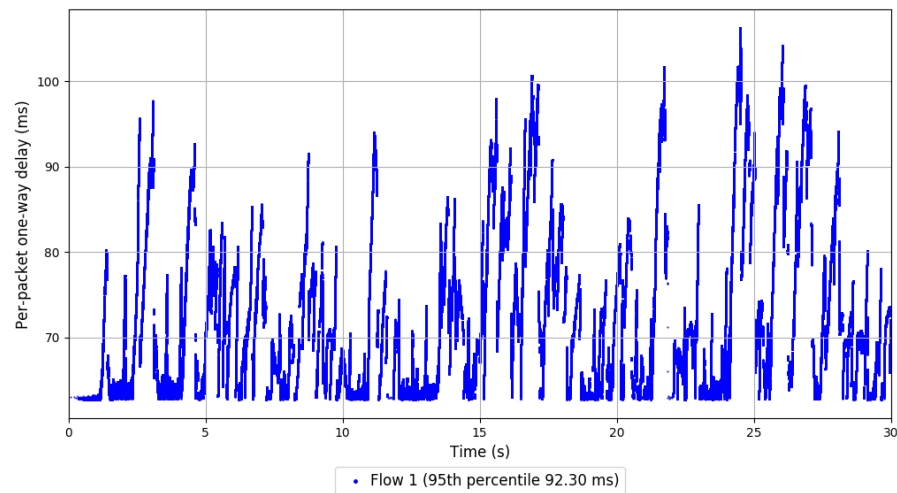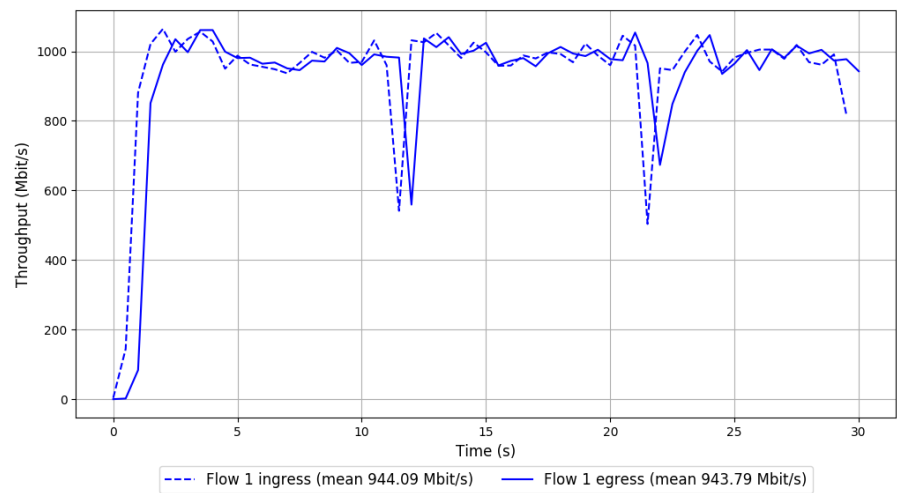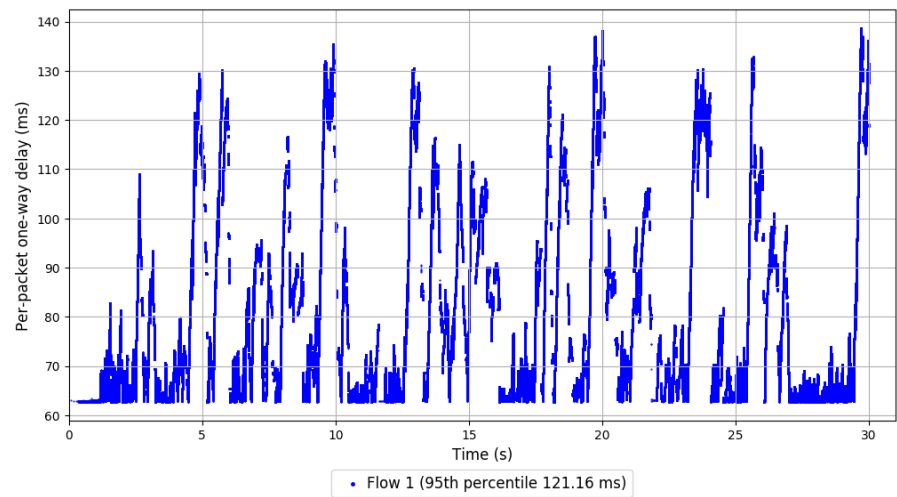
Run 4: Report of FillP — Data Link

Flow 1 ingress (mean 963.04 Mbit/s)   Flow 1 egress (mean 959.72 Mbit/s)

Flow 1 (95th percentile 98.74 ms)

```
Run 5: Statistics of FillP

Start at: 2019-02-12 01:21:41
End at: 2019-02-12 01:22:11
Local clock offset: -0.105 ms
Remote clock offset: -1.444 ms


# Below is generated by plot.py at 2019-02-12 02:28:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 905.36 Mbit/s
95th percentile per-packet one-way delay: 112.927 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 905.36 Mbit/s
95th percentile per-packet one-way delay: 112.927 ms
Loss rate: 0.60%
```

Run 5: Report of FillP — Data Link

Flow 1 ingress (mean 910.78 Mbit/s) ----   Flow 1 egress (mean 905.36 Mbit/s) ——
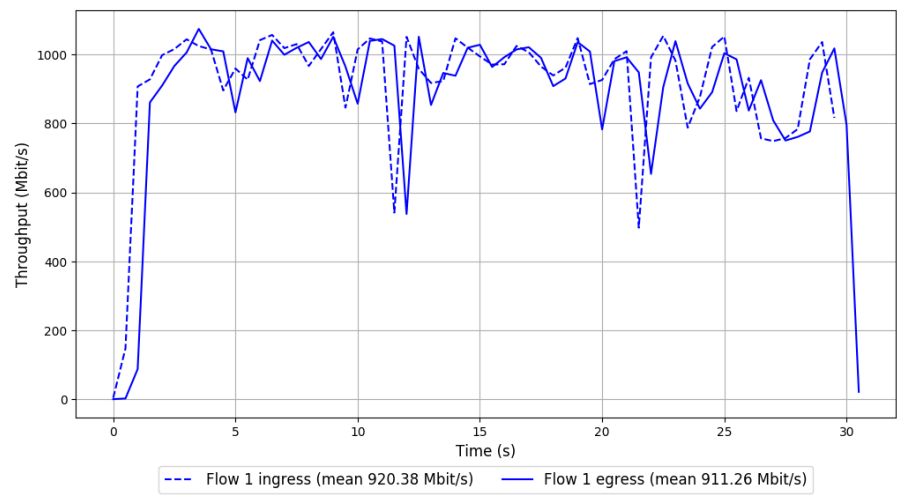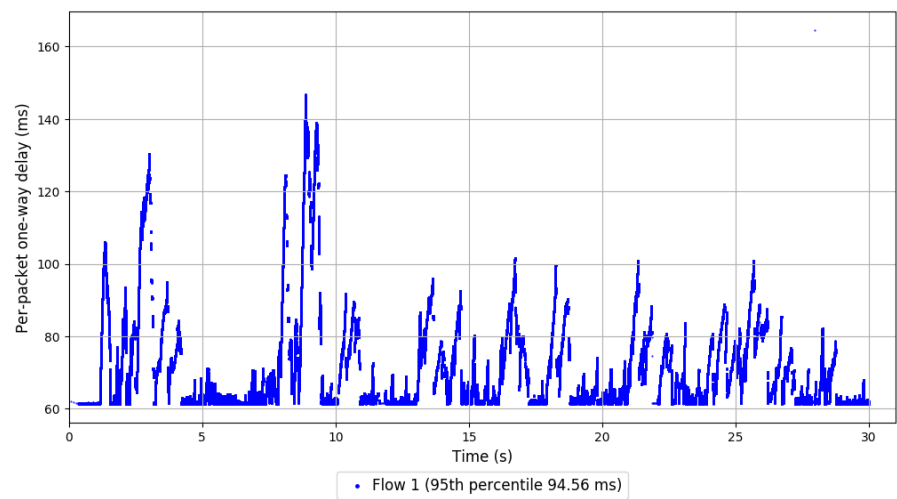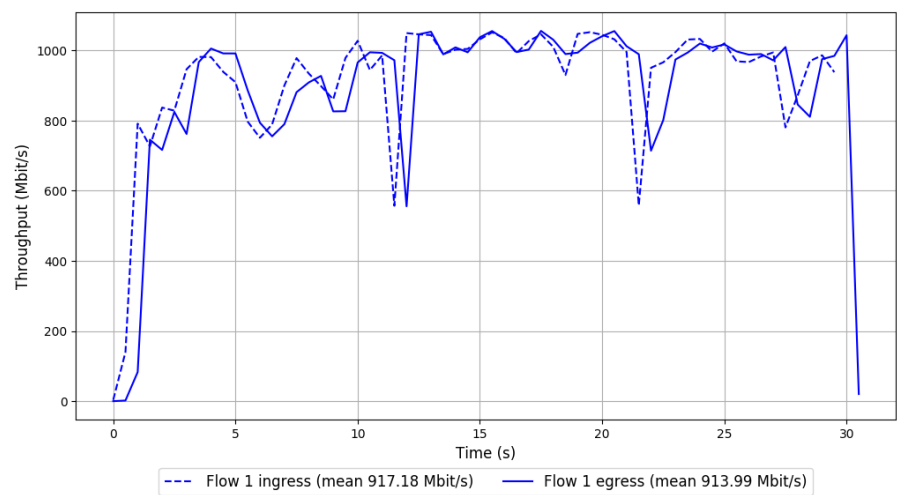

• Flow 1 (95th percentile 112.93 ms)

44

```
Run 1: Statistics of FillP-Sheep

Start at: 2019-02-11 22:52:57
End at: 2019-02-11 22:53:27
Local clock offset: 0.016 ms
Remote clock offset: -0.073 ms


# Below is generated by plot.py at 2019-02-12 02:28:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 943.79 Mbit/s
95th percentile per-packet one-way delay: 92.304 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 943.79 Mbit/s
95th percentile per-packet one-way delay: 92.304 ms
Loss rate: 0.03%
```
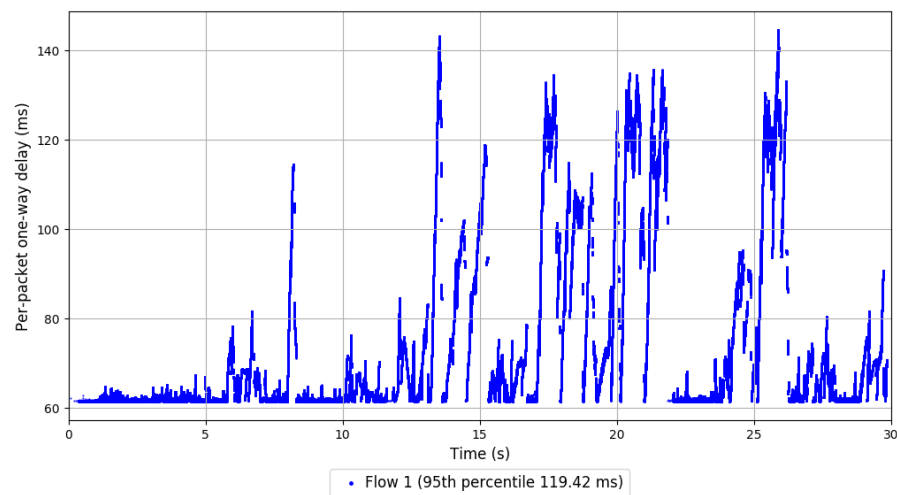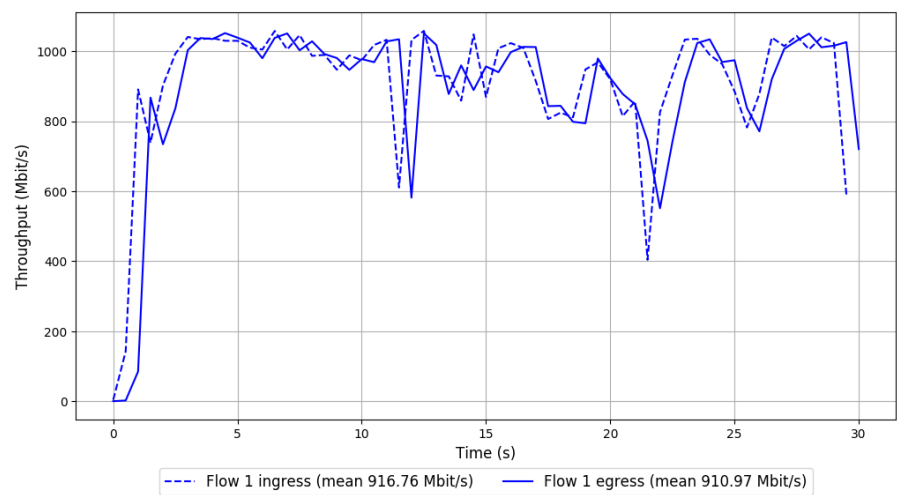
Run 1: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 944.09 Mbit/s)   Flow 1 egress (mean 943.79 Mbit/s)

Flow 1 (95th percentile 92.30 ms)

```
Run 2: Statistics of FillP-Sheep

Start at: 2019-02-11 23:24:27
End at: 2019-02-11 23:24:57
Local clock offset: 0.011 ms
Remote clock offset: -0.181 ms


# Below is generated by plot.py at 2019-02-12 02:28:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 911.26 Mbit/s
95th percentile per-packet one-way delay: 121.155 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 911.26 Mbit/s
95th percentile per-packet one-way delay: 121.155 ms
Loss rate: 0.97%
```
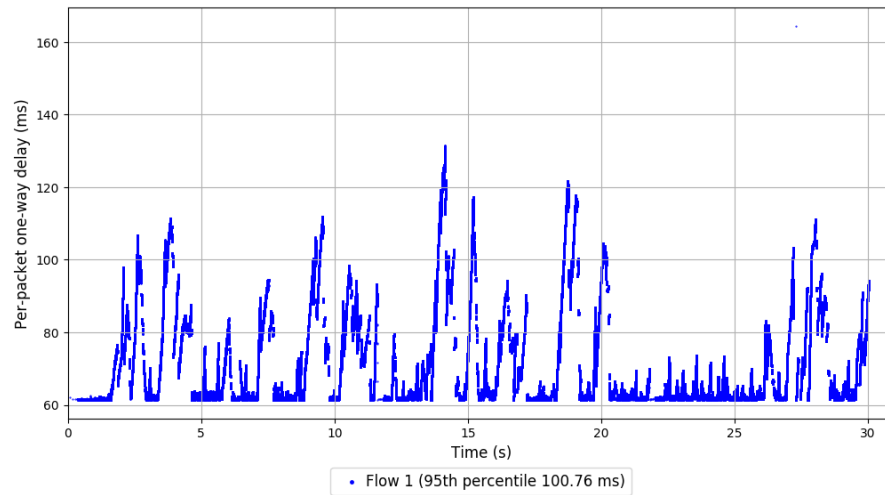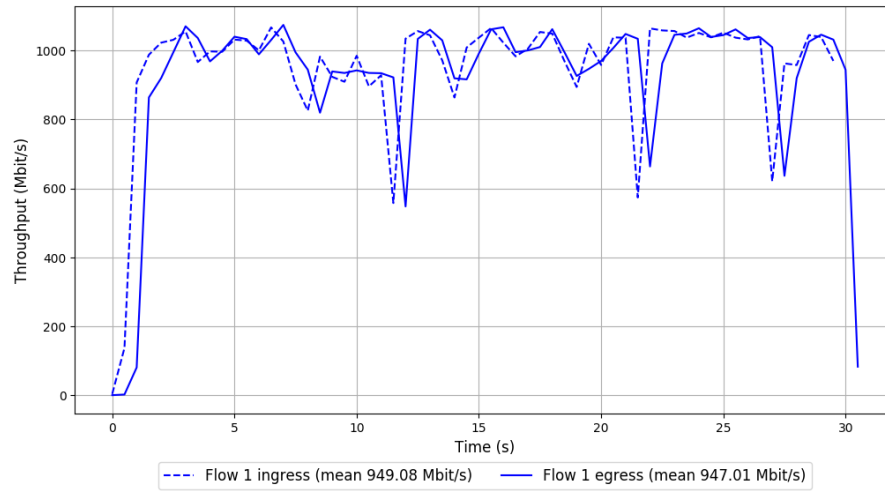
Run 2: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 920.38 Mbit/s) ---- Flow 1 egress (mean 911.26 Mbit/s)

Flow 1 (95th percentile 121.16 ms)

```
Run 3: Statistics of FillP-Sheep

Start at: 2019-02-11 23:55:52
End at: 2019-02-11 23:56:22
Local clock offset: -0.101 ms
Remote clock offset: -1.611 ms


# Below is generated by plot.py at 2019-02-12 02:28:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 913.99 Mbit/s
95th percentile per-packet one-way delay: 94.560 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 913.99 Mbit/s
95th percentile per-packet one-way delay: 94.560 ms
Loss rate: 0.35%
```

Run 3: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 917.18 Mbit/s) --- Flow 1 egress (mean 913.99 Mbit/s)

• Flow 1 (95th percentile 94.56 ms)

```
Run 4: Statistics of FillP-Sheep

Start at: 2019-02-12 00:27:25
End at: 2019-02-12 00:27:55
Local clock offset: -0.098 ms
Remote clock offset: -1.407 ms


# Below is generated by plot.py at 2019-02-12 02:40:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 910.97 Mbit/s
95th percentile per-packet one-way delay: 119.416 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 910.97 Mbit/s
95th percentile per-packet one-way delay: 119.416 ms
Loss rate: 0.63%
```

Run 4: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 916.76 Mbit/s) ----   Flow 1 egress (mean 910.97 Mbit/s) ——

• Flow 1 (95th percentile 119.42 ms)

```
Run 5: Statistics of FillP-Sheep

Start at: 2019-02-12 00:58:47
End at: 2019-02-12 00:59:17
Local clock offset: -0.09 ms
Remote clock offset: -1.413 ms


# Below is generated by plot.py at 2019-02-12 02:52:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 947.01 Mbit/s
95th percentile per-packet one-way delay: 100.756 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 947.01 Mbit/s
95th percentile per-packet one-way delay: 100.756 ms
Loss rate: 0.22%
```

Run 5: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 949.08 Mbit/s)   Flow 1 egress (mean 947.01 Mbit/s)
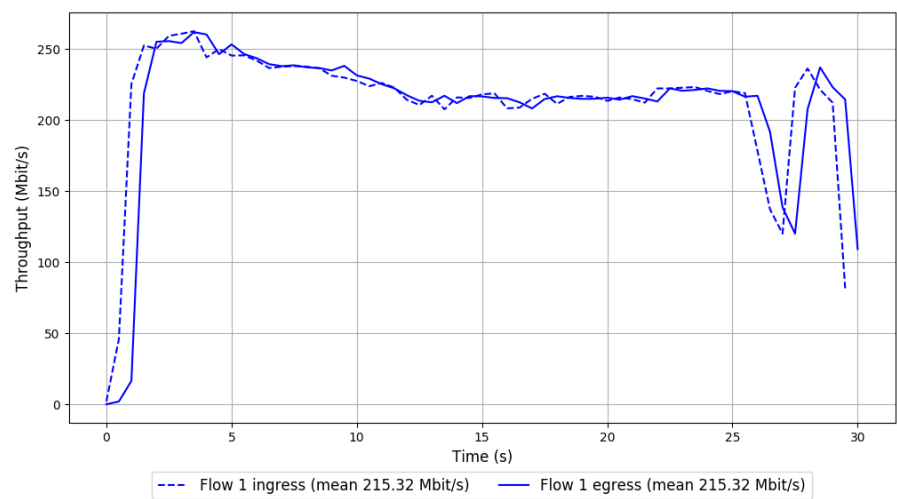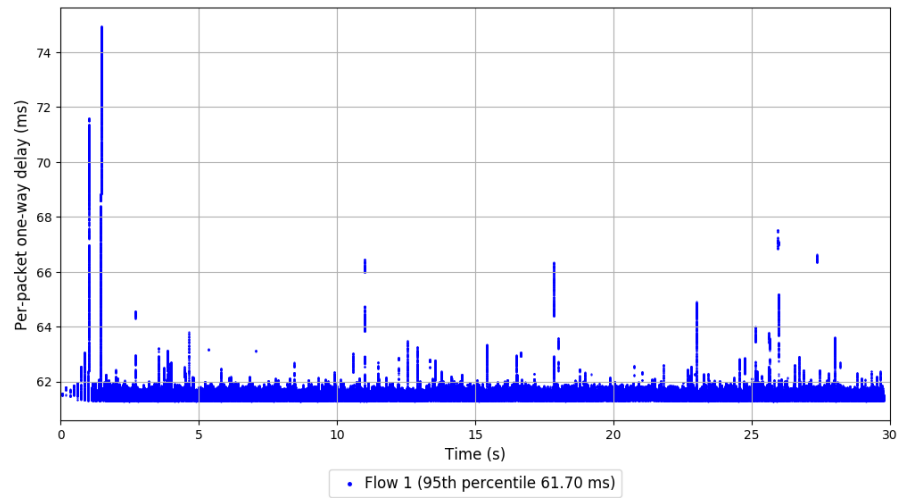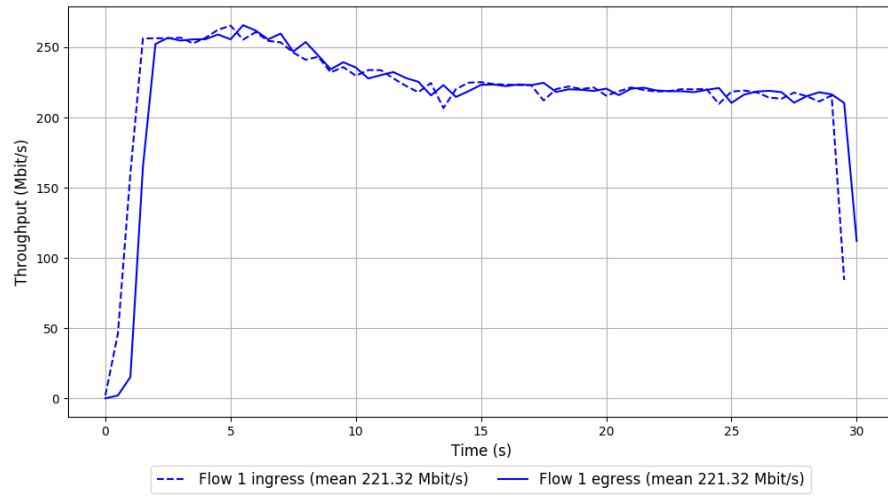

Flow 1 (95th percentile 100.76 ms)

```
Run 1: Statistics of Indigo

Start at: 2019-02-11 22:47:25
End at: 2019-02-11 22:47:55
Local clock offset: -0.016 ms
Remote clock offset: -0.64 ms
```

Run 1: Report of Indigo — Data Link

```
Run 2: Statistics of Indigo

Start at: 2019-02-11 23:18:37
End at: 2019-02-11 23:19:07
Local clock offset: -0.01 ms
Remote clock offset: -0.092 ms


# Below is generated by plot.py at 2019-02-12 02:52:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.72 Mbit/s
95th percentile per-packet one-way delay: 63.273 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 219.72 Mbit/s
95th percentile per-packet one-way delay: 63.273 ms
Loss rate: 0.00%
```
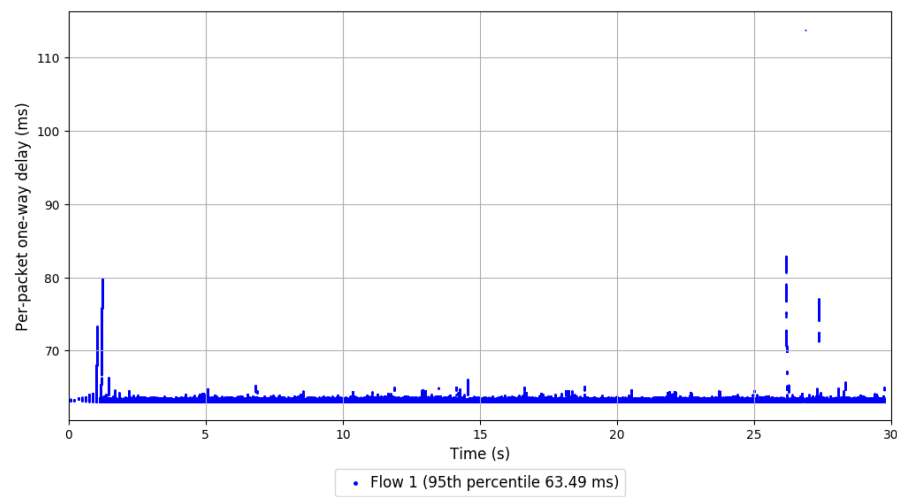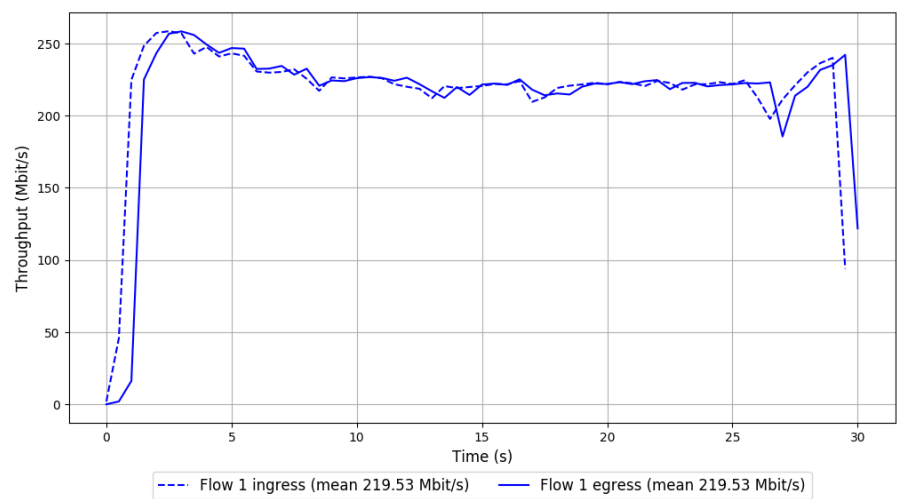
Run 2: Report of Indigo — Data Link

Flow 1 ingress (mean 219.71 Mbit/s)   Flow 1 egress (mean 219.72 Mbit/s)

Flow 1 (95th percentile 63.27 ms)

```
Run 3: Statistics of Indigo

Start at: 2019-02-11 23:50:03
End at: 2019-02-11 23:50:33
Local clock offset: -0.065 ms
Remote clock offset: -0.741 ms


# Below is generated by plot.py at 2019-02-12 02:52:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 215.32 Mbit/s
95th percentile per-packet one-way delay: 62.824 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 215.32 Mbit/s
95th percentile per-packet one-way delay: 62.824 ms
Loss rate: 0.00%
```
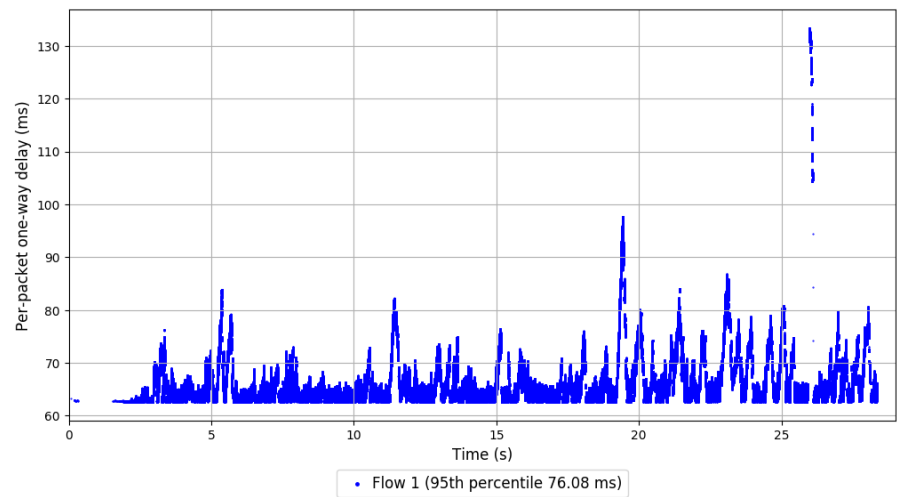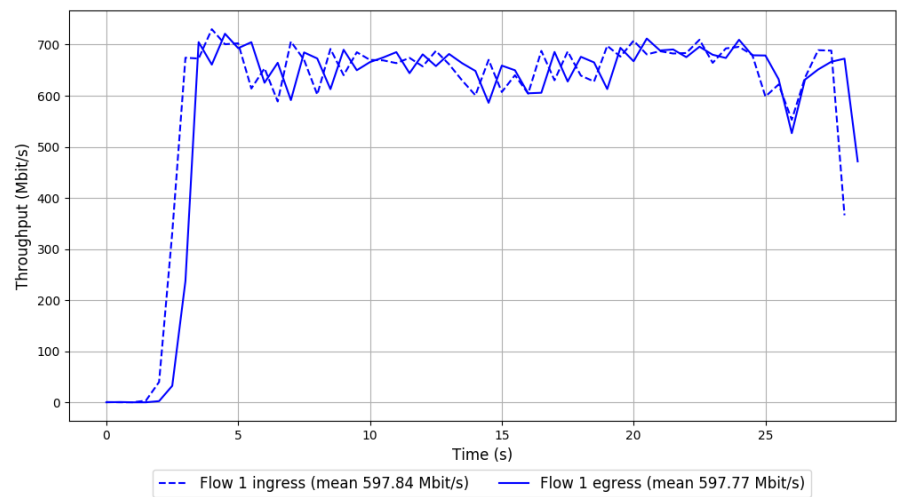
Run 3: Report of Indigo — Data Link

```
Run 4: Statistics of Indigo

Start at: 2019-02-12 00:21:29
End at: 2019-02-12 00:21:59
Local clock offset: -0.122 ms
Remote clock offset: -1.465 ms

# Below is generated by plot.py at 2019-02-12 02:52:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 221.32 Mbit/s
95th percentile per-packet one-way delay: 61.705 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 221.32 Mbit/s
95th percentile per-packet one-way delay: 61.705 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo — Data Link

```
Run 5: Statistics of Indigo

Start at: 2019-02-12 00:52:54
End at: 2019-02-12 00:53:24
Local clock offset: -0.107 ms
Remote clock offset: -0.065 ms


# Below is generated by plot.py at 2019-02-12 02:52:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.53 Mbit/s
95th percentile per-packet one-way delay: 63.492 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 219.53 Mbit/s
95th percentile per-packet one-way delay: 63.492 ms
Loss rate: 0.00%
```
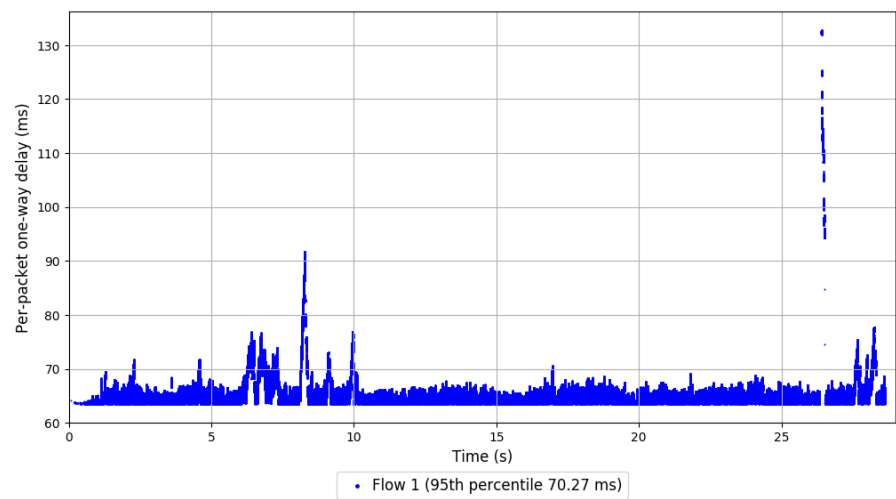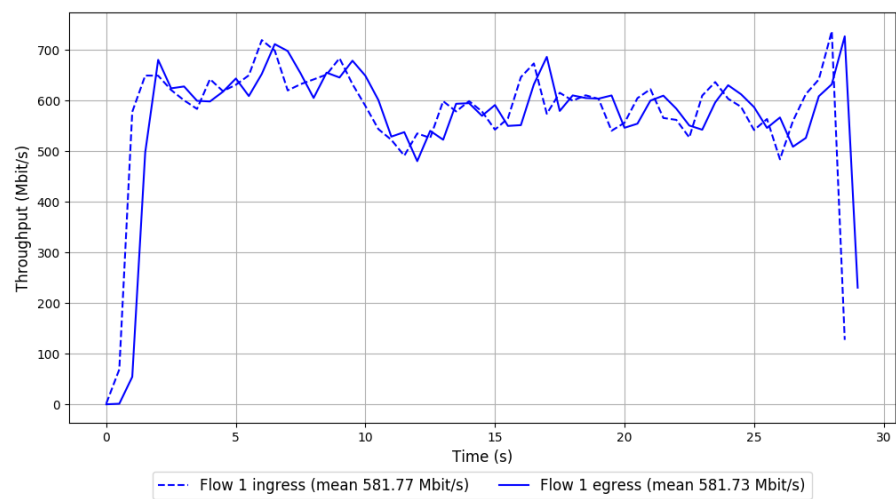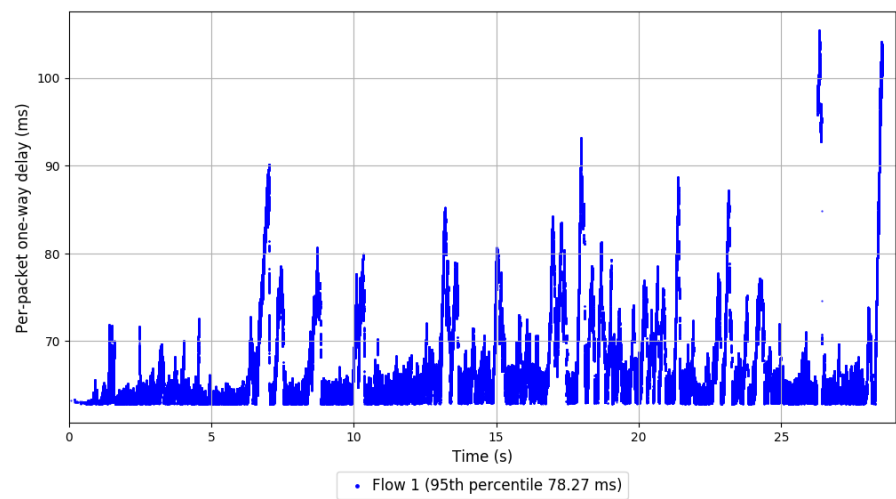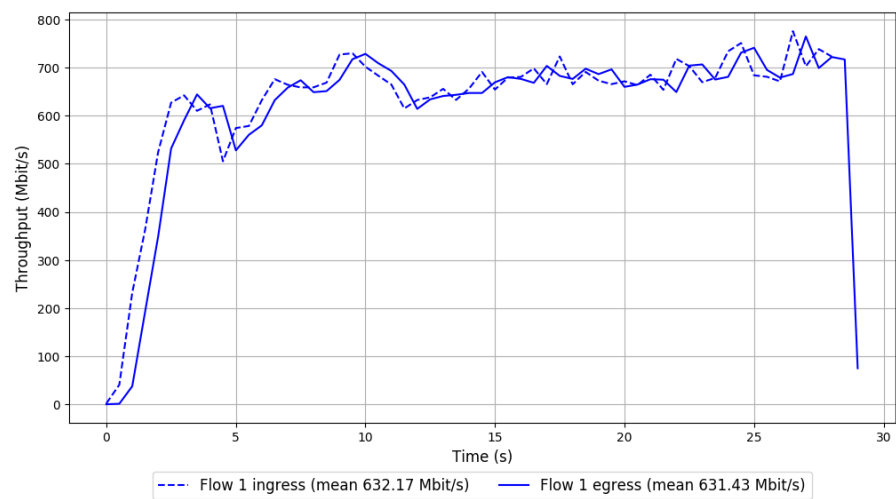
Run 5: Report of Indigo — Data Link

```
Run 1: Statistics of Indigo-MusesC3

Start at: 2019-02-11 22:54:44
End at: 2019-02-11 22:55:14
Local clock offset: -0.001 ms
Remote clock offset: -0.285 ms


# Below is generated by plot.py at 2019-02-12 02:52:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 597.77 Mbit/s
95th percentile per-packet one-way delay: 76.085 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 597.77 Mbit/s
95th percentile per-packet one-way delay: 76.085 ms
Loss rate: 0.01%
```
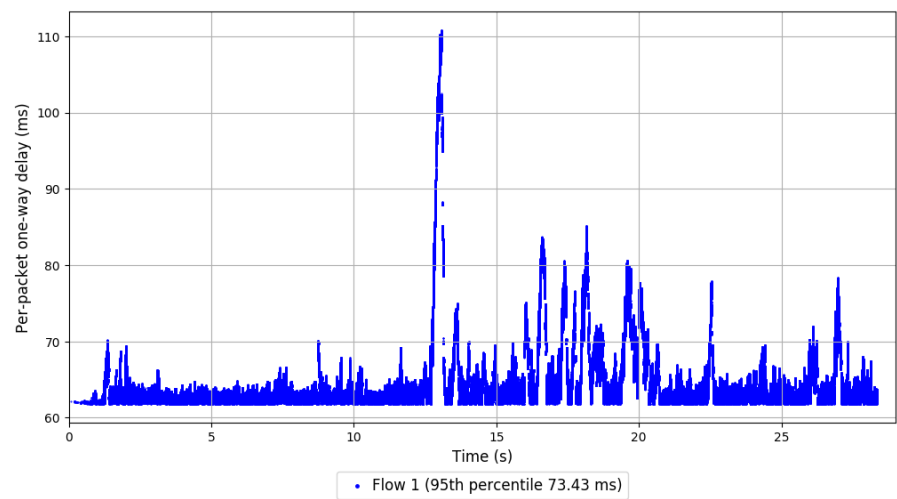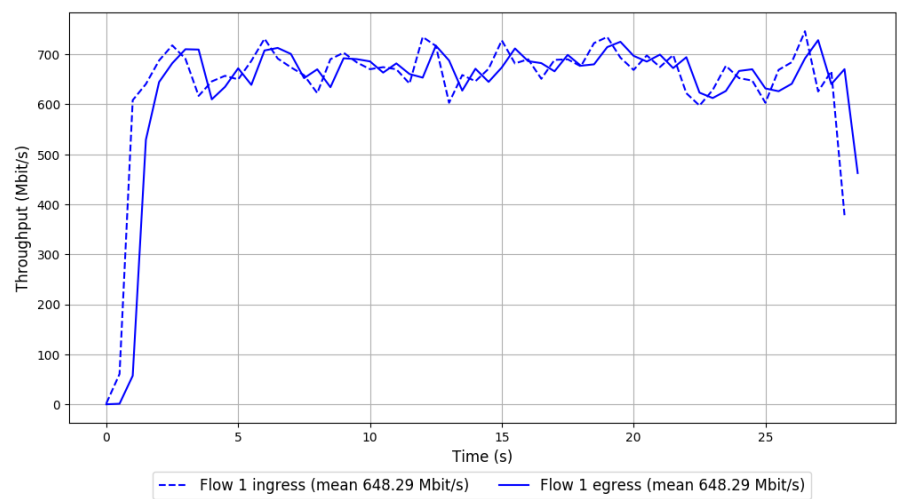
Run 1: Report of Indigo-MusesC3 — Data Link

Flow 1 ingress (mean 597.84 Mbit/s) --- Flow 1 egress (mean 597.77 Mbit/s)

Flow 1 (95th percentile 76.08 ms)

```
Run 2: Statistics of Indigo-MusesC3

Start at: 2019-02-11 23:26:11
End at: 2019-02-11 23:26:41
Local clock offset: -0.008 ms
Remote clock offset: 0.595 ms


# Below is generated by plot.py at 2019-02-12 02:52:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 581.73 Mbit/s
95th percentile per-packet one-way delay: 70.267 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 581.73 Mbit/s
95th percentile per-packet one-way delay: 70.267 ms
Loss rate: 0.00%
```
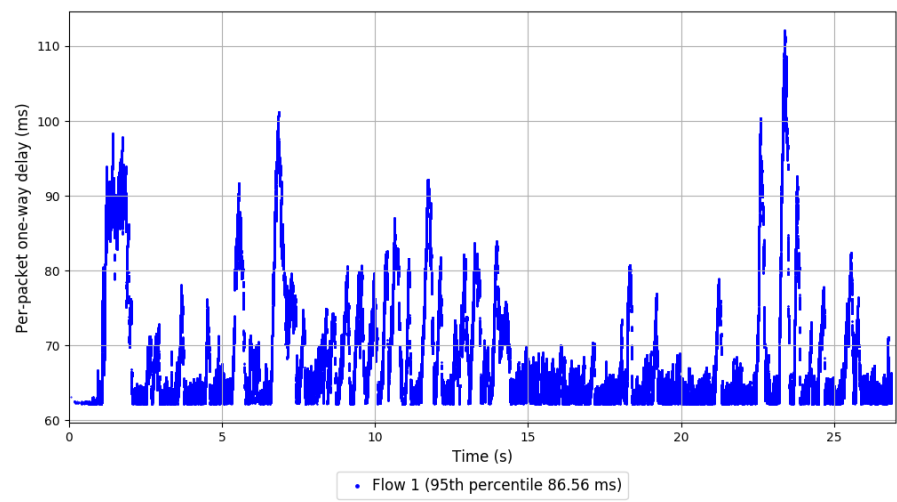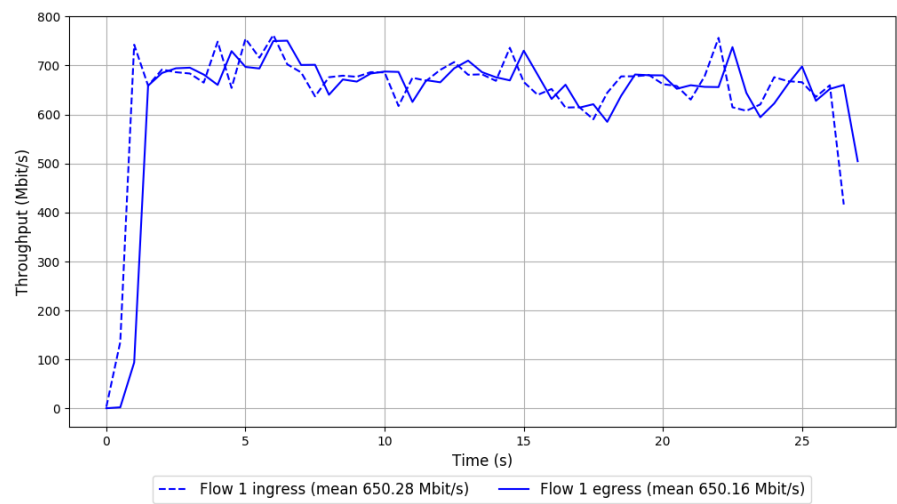
Run 2: Report of Indigo-MusesC3 — Data Link

```
Run 3: Statistics of Indigo-MusesC3

Start at: 2019-02-11 23:57:37
End at: 2019-02-11 23:58:07
Local clock offset: -0.086 ms
Remote clock offset: -0.187 ms


# Below is generated by plot.py at 2019-02-12 02:52:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 631.43 Mbit/s
95th percentile per-packet one-way delay: 78.269 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 631.43 Mbit/s
95th percentile per-packet one-way delay: 78.269 ms
Loss rate: 0.12%
```
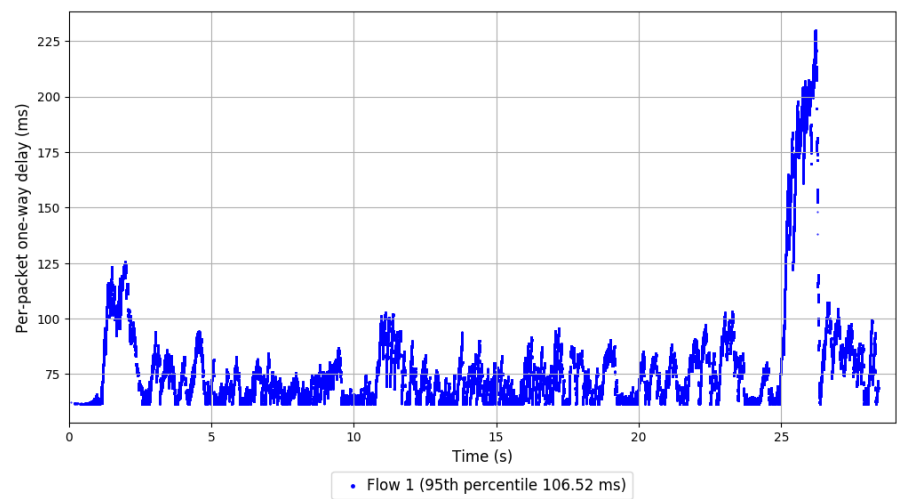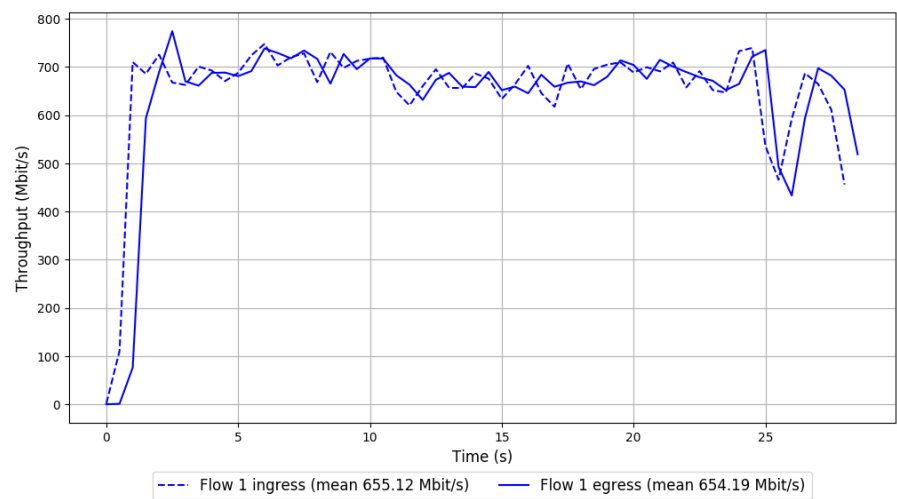
Run 3: Report of Indigo-MusesC3 — Data Link

```
Run 4: Statistics of Indigo-MusesC3

Start at: 2019-02-12 00:29:09
End at: 2019-02-12 00:29:39
Local clock offset: -0.107 ms
Remote clock offset: -1.217 ms


# Below is generated by plot.py at 2019-02-12 02:52:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 648.29 Mbit/s
95th percentile per-packet one-way delay: 73.434 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 648.29 Mbit/s
95th percentile per-packet one-way delay: 73.434 ms
Loss rate: 0.00%
```
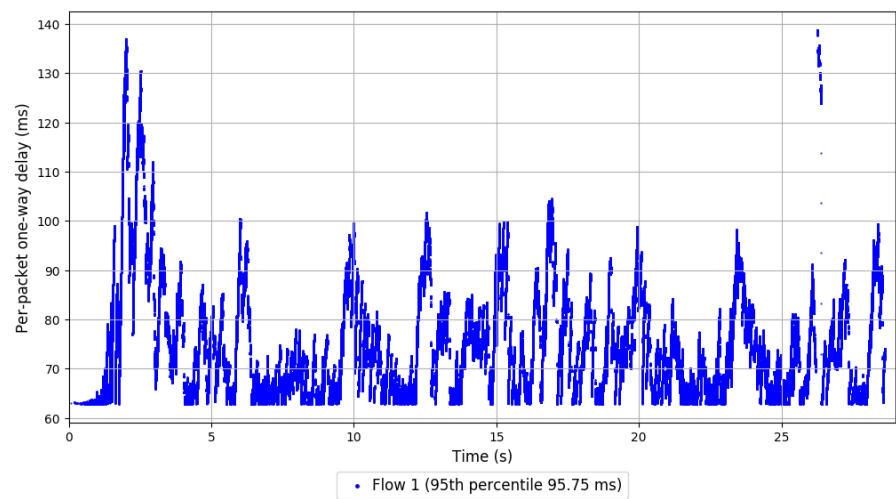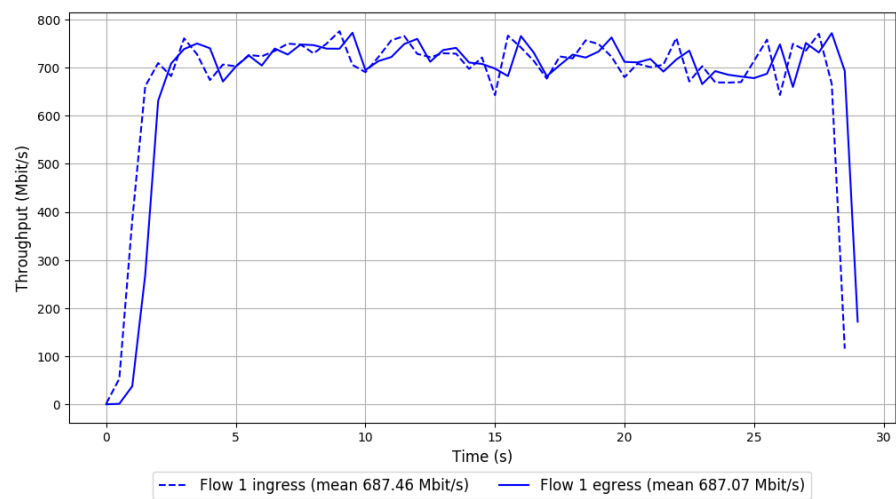
Run 4: Report of Indigo-MusesC3 — Data Link

Flow 1 ingress (mean 648.29 Mbit/s)　　Flow 1 egress (mean 648.29 Mbit/s)

Flow 1 (95th percentile 73.43 ms)

```
Run 5: Statistics of Indigo-MusesC3

Start at: 2019-02-12 01:00:34
End at: 2019-02-12 01:01:04
Local clock offset: -0.071 ms
Remote clock offset: -0.686 ms


# Below is generated by plot.py at 2019-02-12 02:52:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 650.16 Mbit/s
95th percentile per-packet one-way delay: 86.555 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 650.16 Mbit/s
95th percentile per-packet one-way delay: 86.555 ms
Loss rate: 0.02%
```

Run 5: Report of Indigo-MusesC3 — Data Link

Flow 1 ingress (mean 650.28 Mbit/s)   Flow 1 egress (mean 650.16 Mbit/s)

Flow 1 (95th percentile 86.56 ms)

```
Run 1: Statistics of Indigo-MusesC5

Start at: 2019-02-11 22:56:21
End at: 2019-02-11 22:56:51
Local clock offset: 0.01 ms
Remote clock offset: -1.327 ms

# Below is generated by plot.py at 2019-02-12 02:52:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 654.19 Mbit/s
95th percentile per-packet one-way delay: 106.524 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 654.19 Mbit/s
95th percentile per-packet one-way delay: 106.524 ms
Loss rate: 0.14%
```
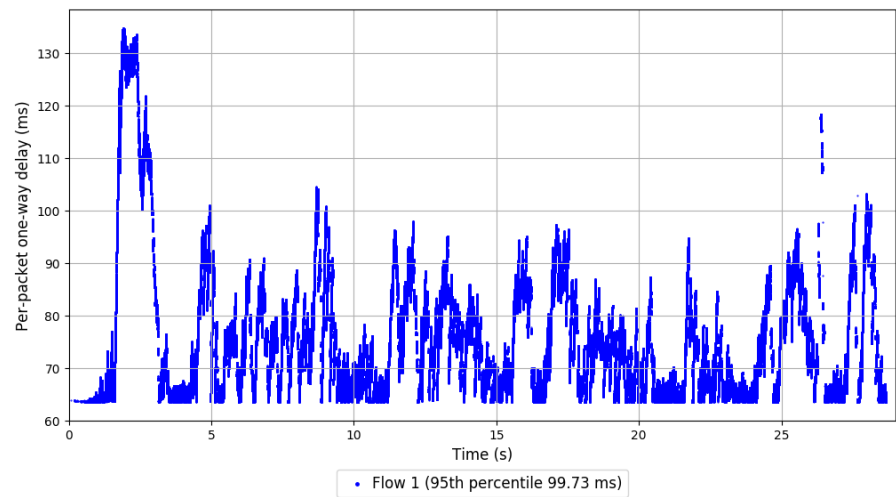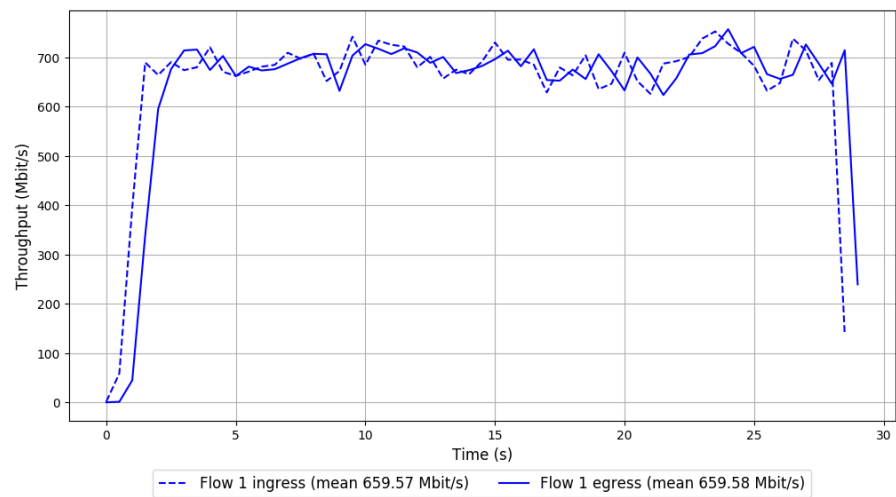
Run 1: Report of Indigo-MusesC5 — Data Link

```
Run 2: Statistics of Indigo-MusesC5

Start at: 2019-02-11 23:27:46
End at: 2019-02-11 23:28:16
Local clock offset: 0.011 ms
Remote clock offset: -0.136 ms


# Below is generated by plot.py at 2019-02-12 02:55:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 687.07 Mbit/s
95th percentile per-packet one-way delay: 95.751 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 687.07 Mbit/s
95th percentile per-packet one-way delay: 95.751 ms
Loss rate: 0.06%
```
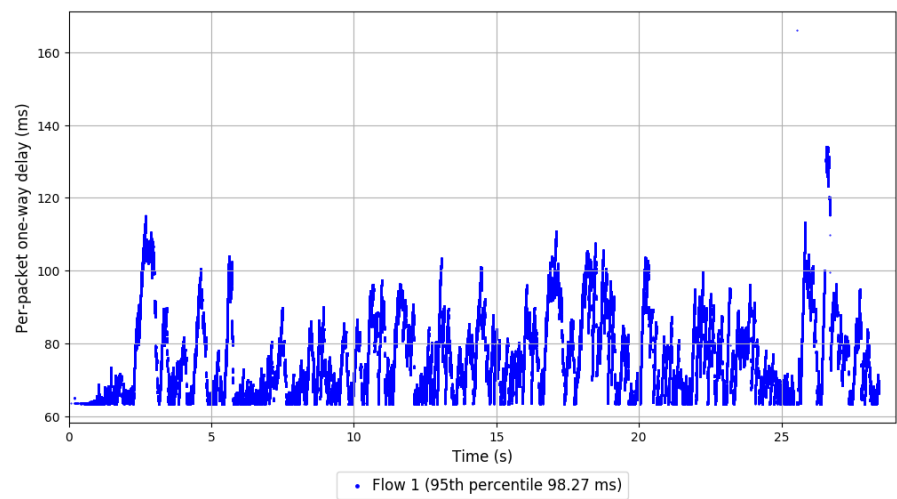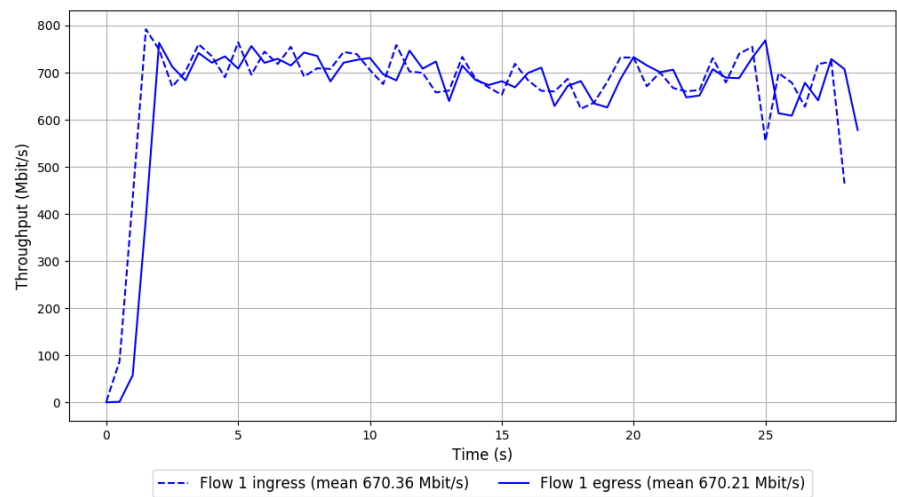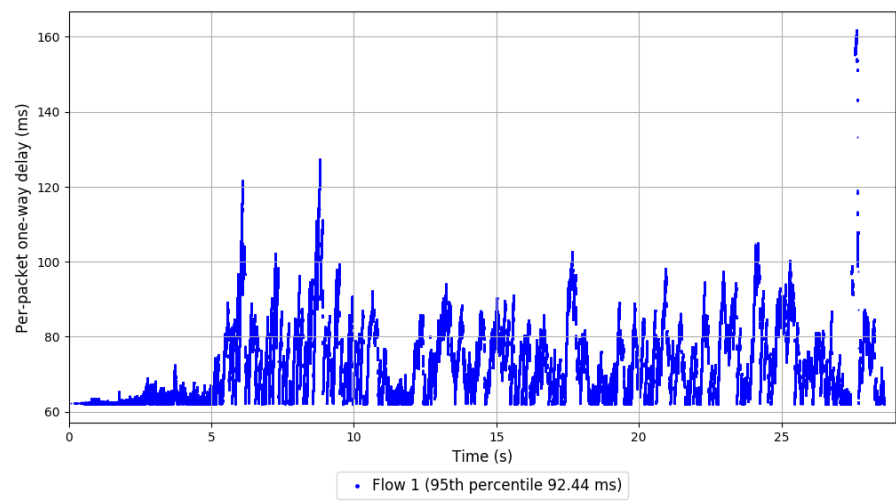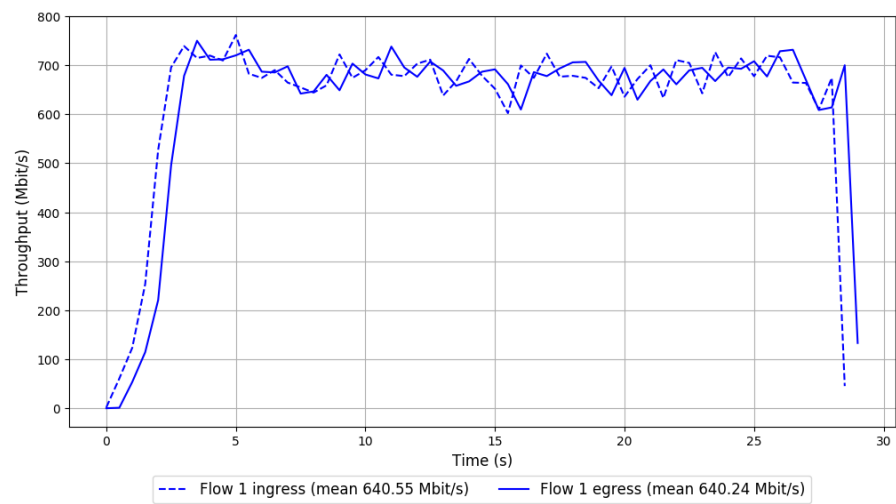
Run 2: Report of Indigo-MusesC5 — Data Link

```
Run 3: Statistics of Indigo-MusesC5

Start at: 2019-02-11 23:59:14
End at: 2019-02-11 23:59:44
Local clock offset: -0.094 ms
Remote clock offset: 0.612 ms


# Below is generated by plot.py at 2019-02-12 02:55:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 659.58 Mbit/s
95th percentile per-packet one-way delay: 99.726 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 659.58 Mbit/s
95th percentile per-packet one-way delay: 99.726 ms
Loss rate: 0.00%
```
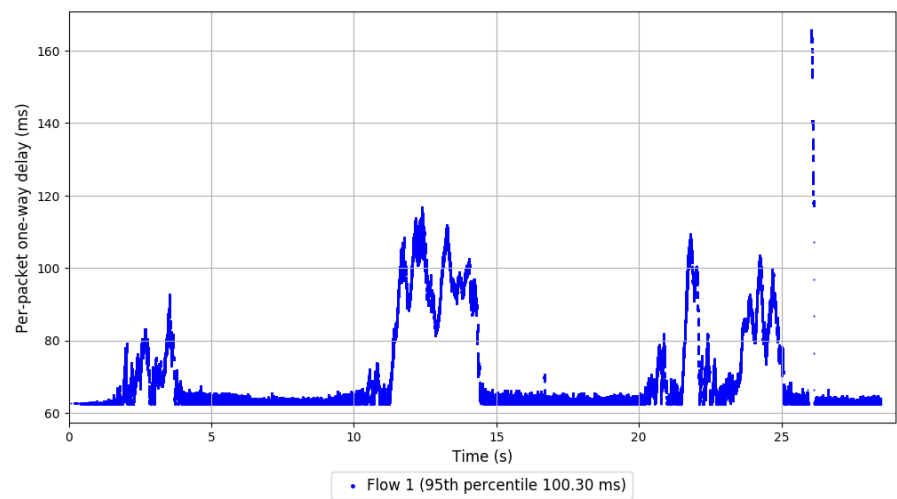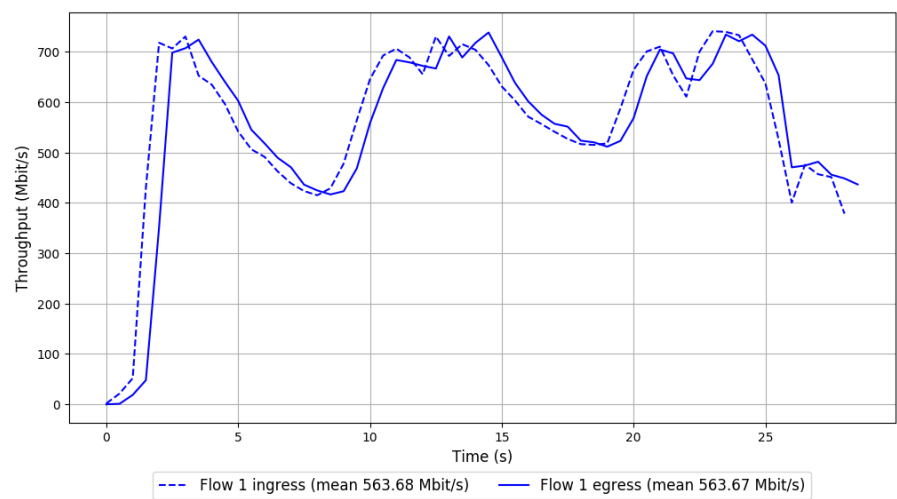
Run 3: Report of Indigo-MusesC5 — Data Link

```
Run 4: Statistics of Indigo-MusesC5

Start at: 2019-02-12 00:30:47
End at: 2019-02-12 00:31:17
Local clock offset: -0.086 ms
Remote clock offset: 0.587 ms


# Below is generated by plot.py at 2019-02-12 02:56:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 670.21 Mbit/s
95th percentile per-packet one-way delay: 98.270 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 670.21 Mbit/s
95th percentile per-packet one-way delay: 98.270 ms
Loss rate: 0.02%
```

Run 4: Report of Indigo-MusesC5 — Data Link

```
Run 5: Statistics of Indigo-MusesC5

Start at: 2019-02-12 01:02:11
End at: 2019-02-12 01:02:41
Local clock offset: -0.114 ms
Remote clock offset: -0.806 ms


# Below is generated by plot.py at 2019-02-12 03:03:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 640.24 Mbit/s
95th percentile per-packet one-way delay: 92.445 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 640.24 Mbit/s
95th percentile per-packet one-way delay: 92.445 ms
Loss rate: 0.05%
```
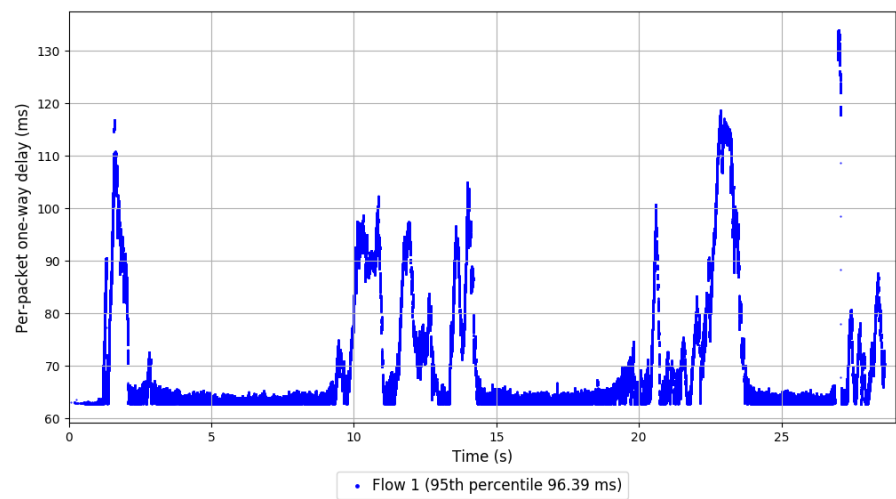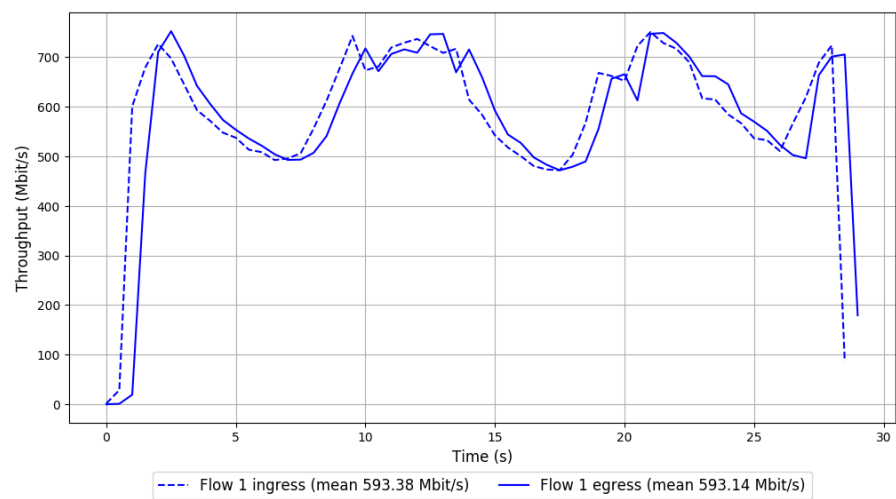
Run 5: Report of Indigo-MusesC5 — Data Link

Flow 1 ingress (mean 640.55 Mbit/s) — — — Flow 1 egress (mean 640.24 Mbit/s) ———

Flow 1 (95th percentile 92.44 ms)

```
Run 1: Statistics of Indigo-MusesD

Start at: 2019-02-11 23:01:58
End at: 2019-02-11 23:02:28
Local clock offset: 0.023 ms
Remote clock offset: -0.35 ms


# Below is generated by plot.py at 2019-02-12 03:03:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 563.67 Mbit/s
95th percentile per-packet one-way delay: 100.301 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 563.67 Mbit/s
95th percentile per-packet one-way delay: 100.301 ms
Loss rate: 0.00%
```
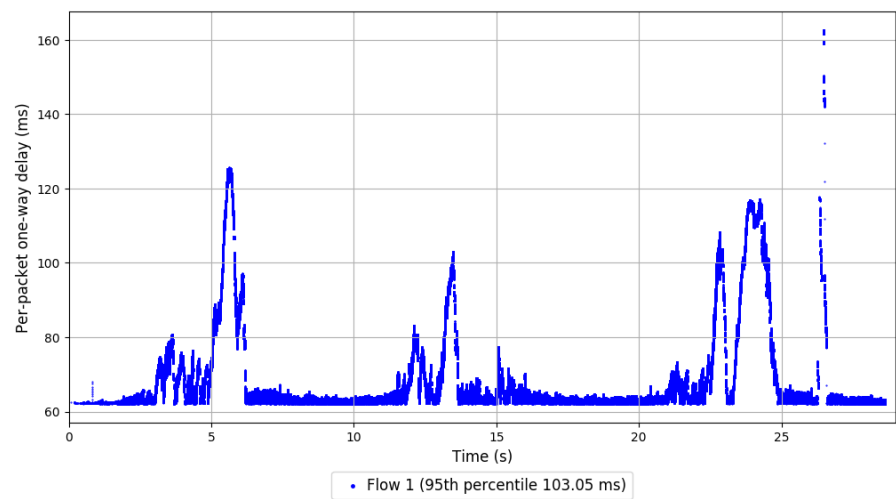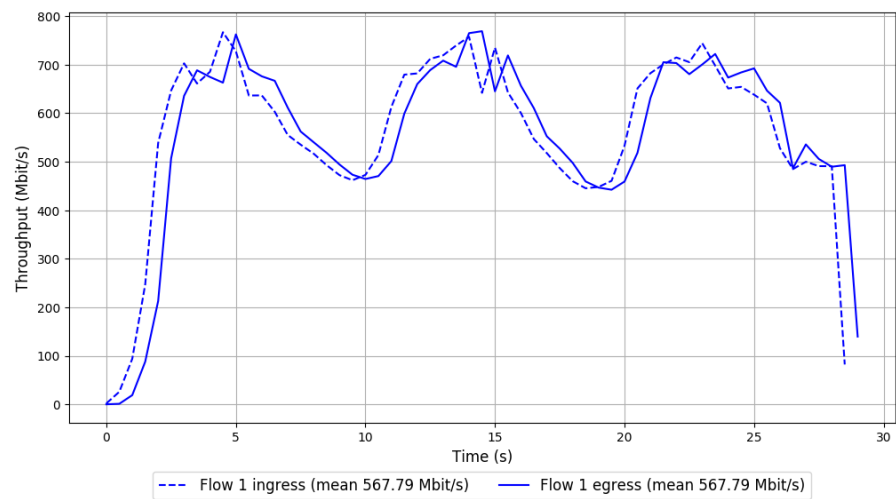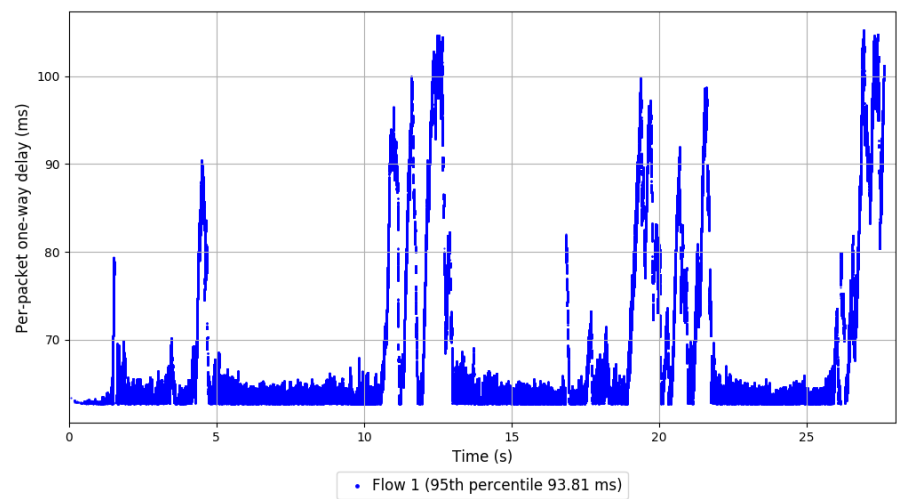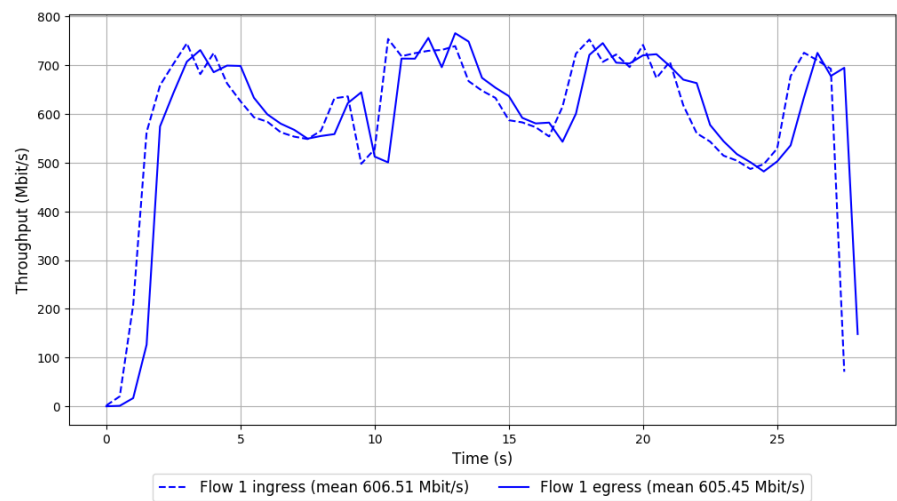
Run 1: Report of Indigo-MusesD — Data Link

- - - Flow 1 ingress (mean 563.68 Mbit/s) —— Flow 1 egress (mean 563.67 Mbit/s)

• Flow 1 (95th percentile 100.30 ms)

```
Run 2: Statistics of Indigo-MusesD

Start at: 2019-02-11 23:33:29
End at: 2019-02-11 23:33:59
Local clock offset: 0.009 ms
Remote clock offset: -0.457 ms


# Below is generated by plot.py at 2019-02-12 03:03:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 593.14 Mbit/s
95th percentile per-packet one-way delay: 96.390 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 593.14 Mbit/s
95th percentile per-packet one-way delay: 96.390 ms
Loss rate: 0.04%
```
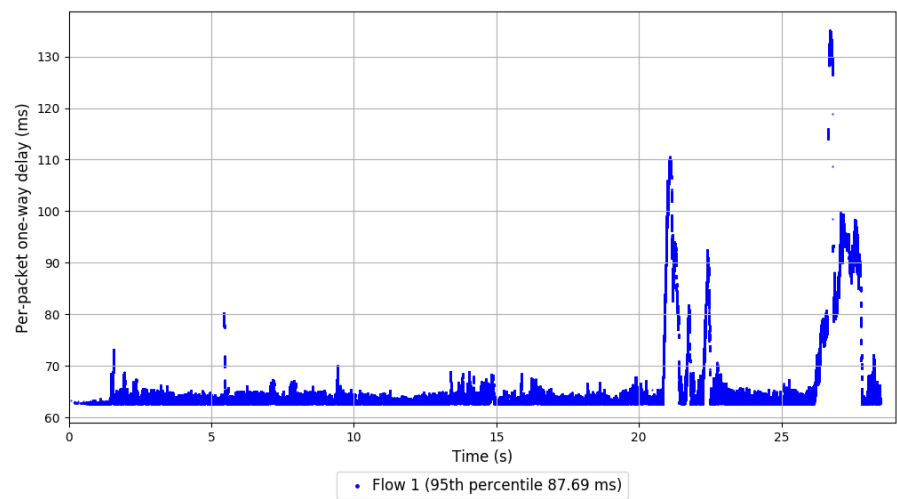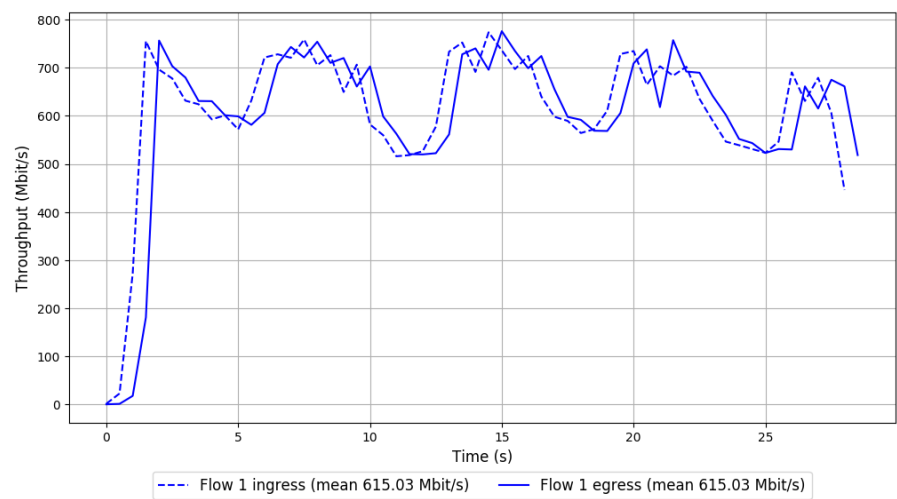
Run 2: Report of Indigo-MusesD — Data Link

```
Run 3: Statistics of Indigo-MusesD

Start at: 2019-02-12 00:04:56
End at: 2019-02-12 00:05:26
Local clock offset: -0.075 ms
Remote clock offset: -0.714 ms


# Below is generated by plot.py at 2019-02-12 03:03:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 567.79 Mbit/s
95th percentile per-packet one-way delay: 103.049 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 567.79 Mbit/s
95th percentile per-packet one-way delay: 103.049 ms
Loss rate: 0.00%
```
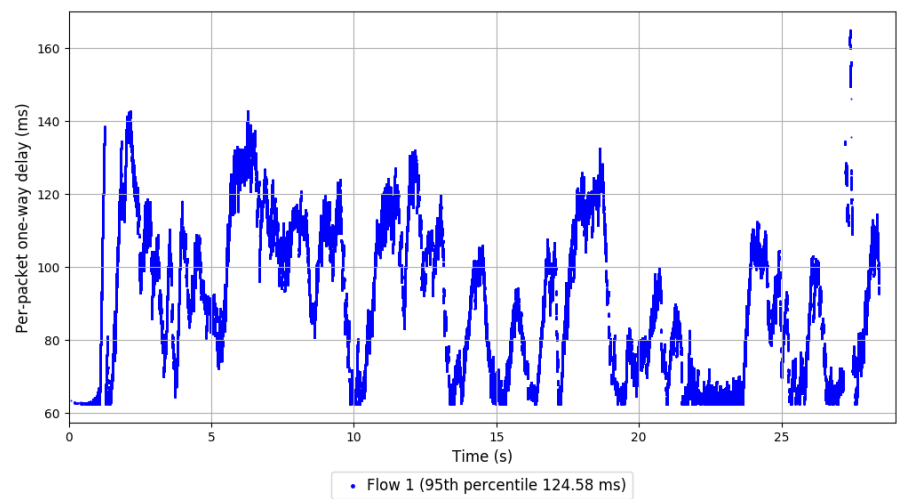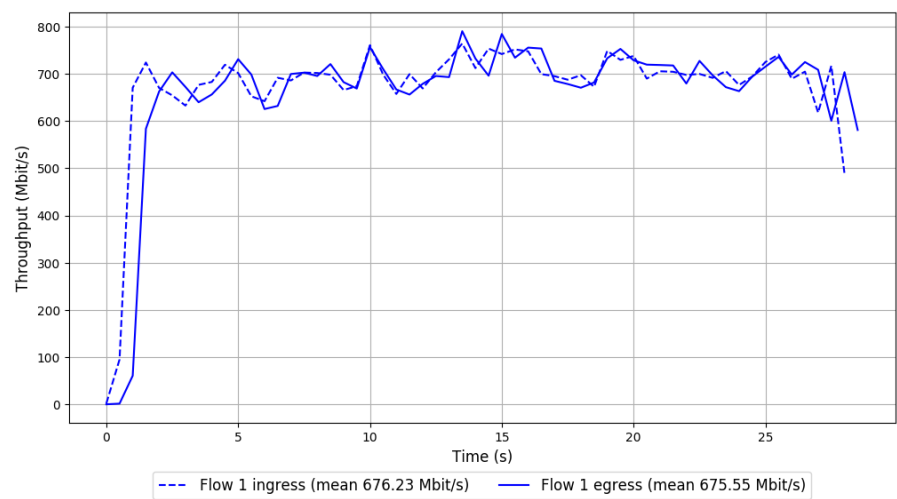
Run 3: Report of Indigo-MusesD — Data Link

```
Run 4: Statistics of Indigo-MusesD

Start at: 2019-02-12 00:36:28
End at: 2019-02-12 00:36:58
Local clock offset: -0.099 ms
Remote clock offset: -0.143 ms


# Below is generated by plot.py at 2019-02-12 03:04:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 605.45 Mbit/s
95th percentile per-packet one-way delay: 93.814 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 605.45 Mbit/s
95th percentile per-packet one-way delay: 93.814 ms
Loss rate: 0.16%
```

Run 4: Report of Indigo-MusesD — Data Link

```
Run 5: Statistics of Indigo-MusesD

Start at: 2019-02-12 01:07:51
End at: 2019-02-12 01:08:21
Local clock offset: -0.111 ms
Remote clock offset: -0.209 ms


# Below is generated by plot.py at 2019-02-12 03:09:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 615.03 Mbit/s
95th percentile per-packet one-way delay: 87.694 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 615.03 Mbit/s
95th percentile per-packet one-way delay: 87.694 ms
Loss rate: 0.00%
```
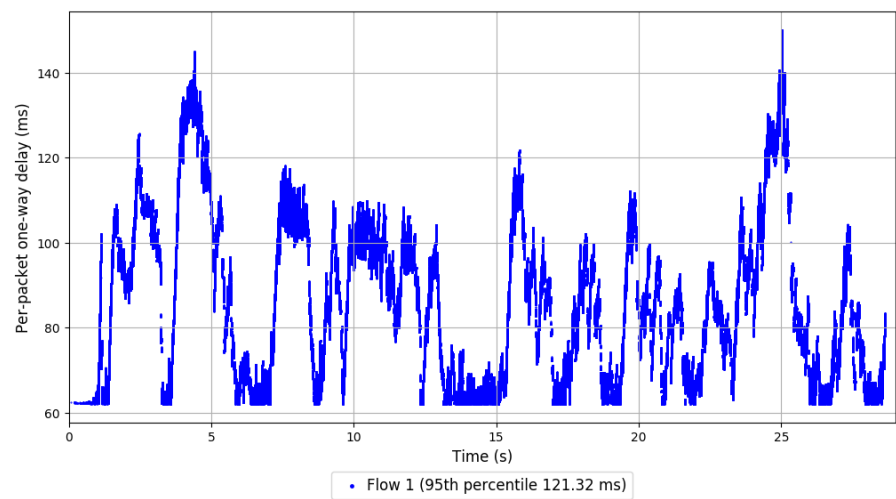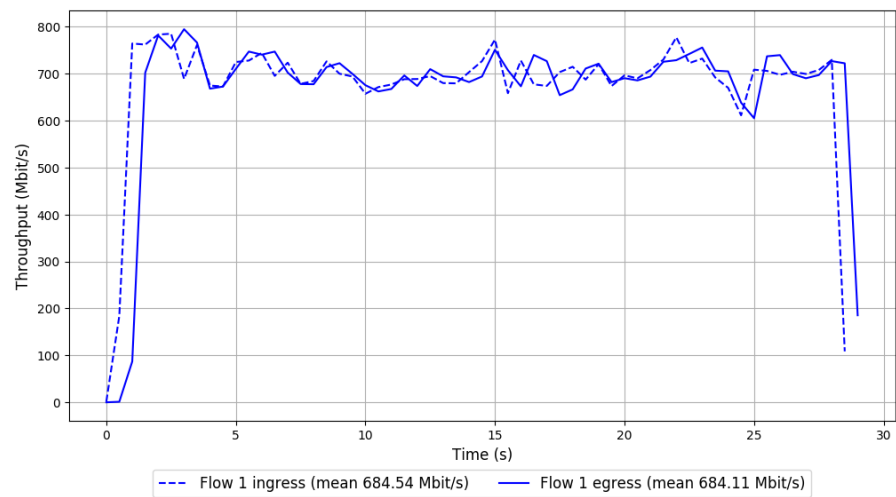
Run 5: Report of Indigo-MusesD — Data Link

```
Run 1: Statistics of Indigo-MusesT

Start at: 2019-02-11 22:59:11
End at: 2019-02-11 22:59:41
Local clock offset: -0.021 ms
Remote clock offset: -0.445 ms


# Below is generated by plot.py at 2019-02-12 03:10:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 675.55 Mbit/s
95th percentile per-packet one-way delay: 124.575 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 675.55 Mbit/s
95th percentile per-packet one-way delay: 124.575 ms
Loss rate: 0.10%
```
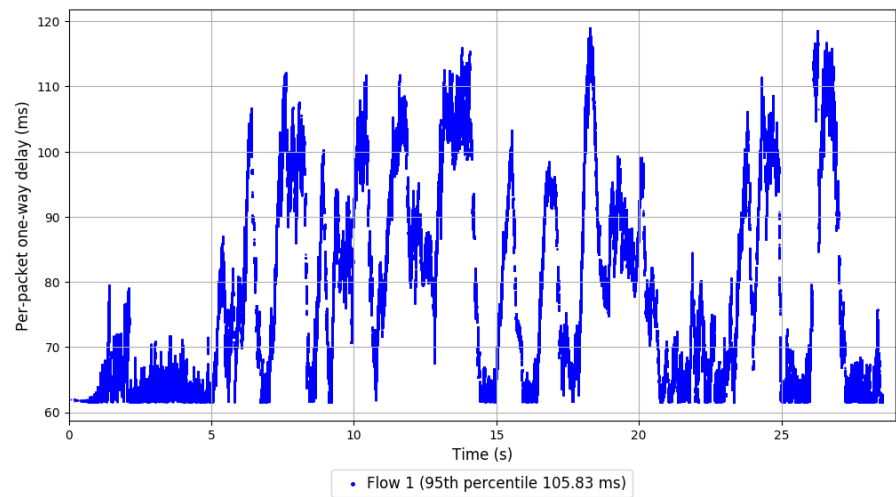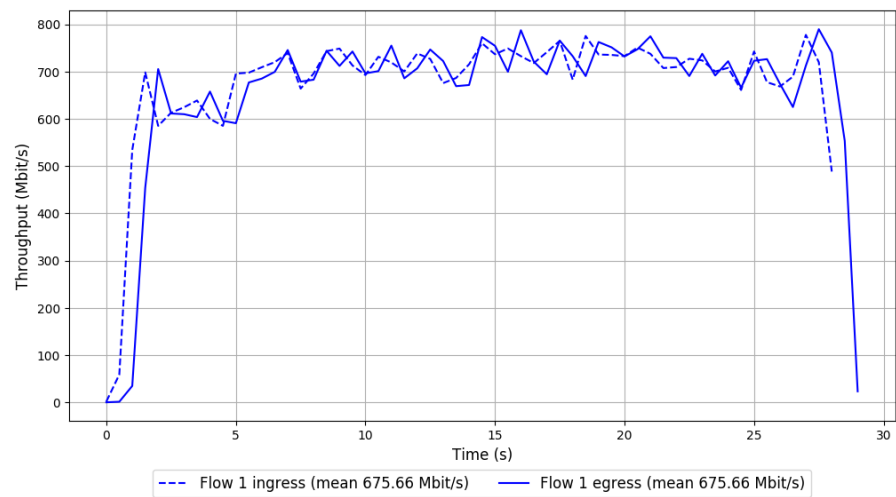
Run 1: Report of Indigo-MusesT — Data Link

```
Run 2: Statistics of Indigo-MusesT

Start at: 2019-02-11 23:30:36
End at: 2019-02-11 23:31:06
Local clock offset: 0.011 ms
Remote clock offset: -0.824 ms


# Below is generated by plot.py at 2019-02-12 03:10:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 684.11 Mbit/s
95th percentile per-packet one-way delay: 121.324 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 684.11 Mbit/s
95th percentile per-packet one-way delay: 121.324 ms
Loss rate: 0.06%
```
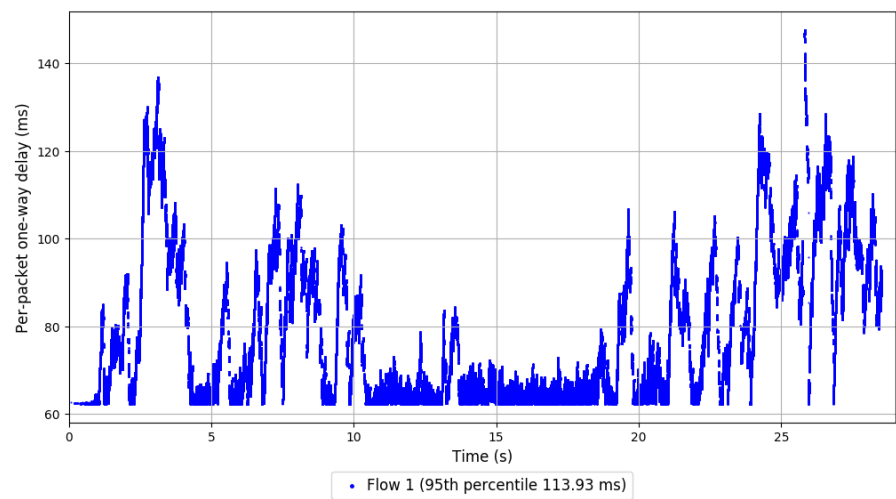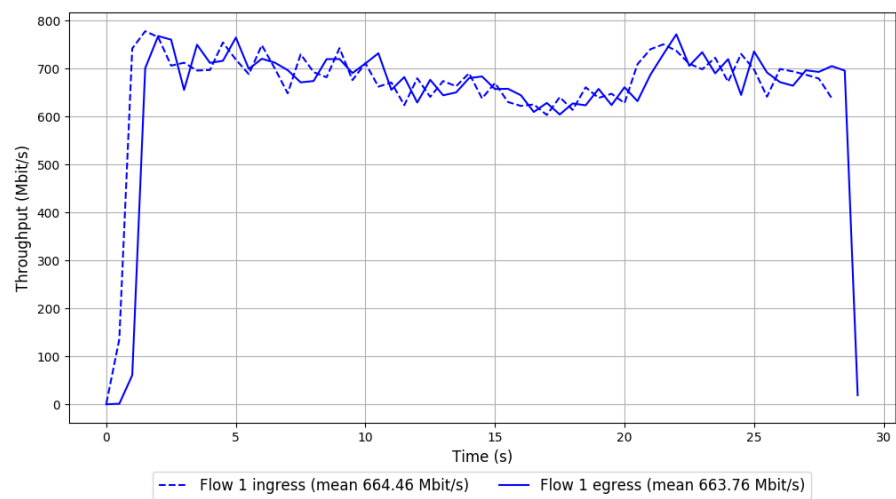
Run 2: Report of Indigo-MusesT — Data Link

Flow 1 ingress (mean 684.54 Mbit/s)   Flow 1 egress (mean 684.11 Mbit/s)
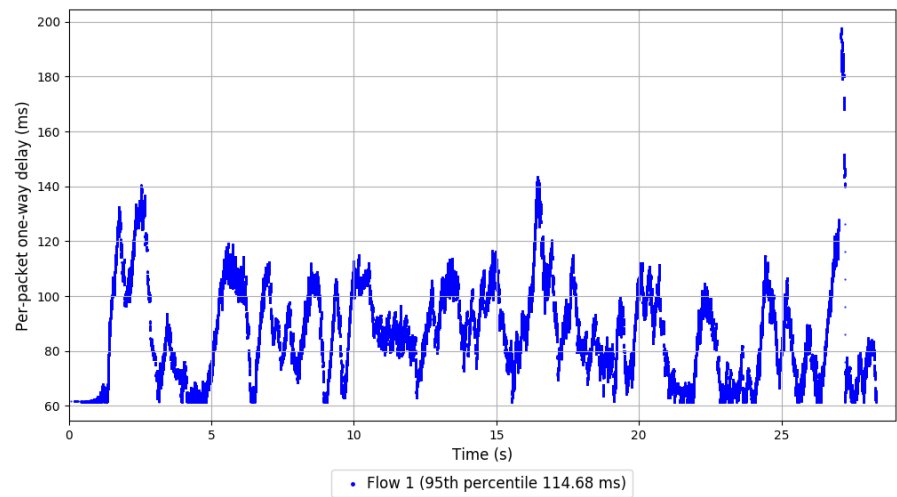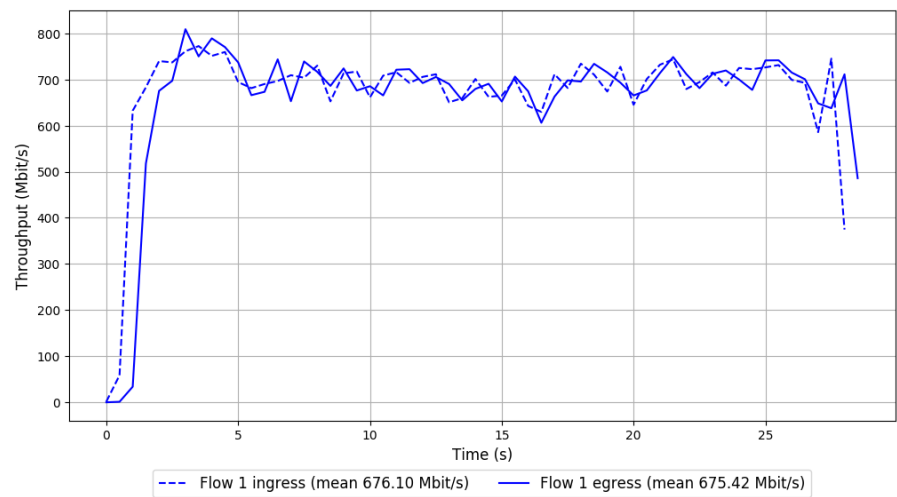

Flow 1 (95th percentile 121.32 ms)

```
Run 3: Statistics of Indigo-MusesT

Start at: 2019-02-12 00:02:03
End at: 2019-02-12 00:02:33
Local clock offset: -0.081 ms
Remote clock offset: -1.539 ms


# Below is generated by plot.py at 2019-02-12 03:16:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 675.66 Mbit/s
95th percentile per-packet one-way delay: 105.834 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 675.66 Mbit/s
95th percentile per-packet one-way delay: 105.834 ms
Loss rate: 0.00%
```
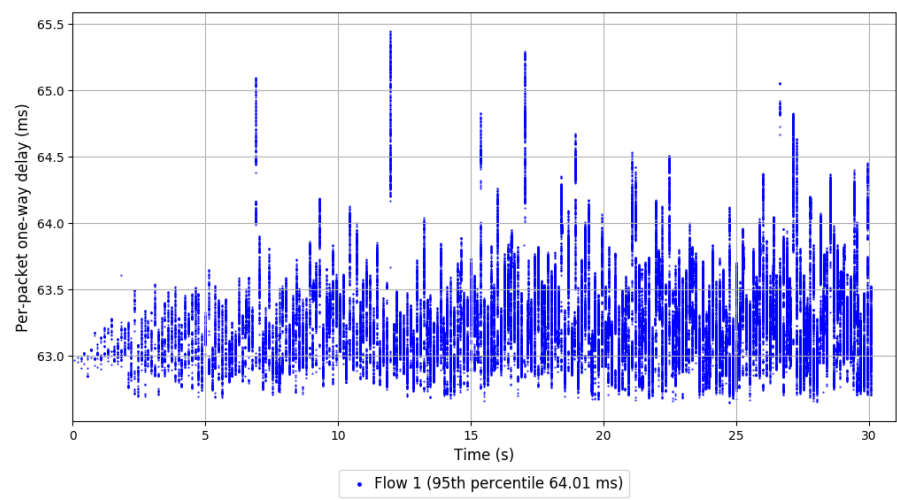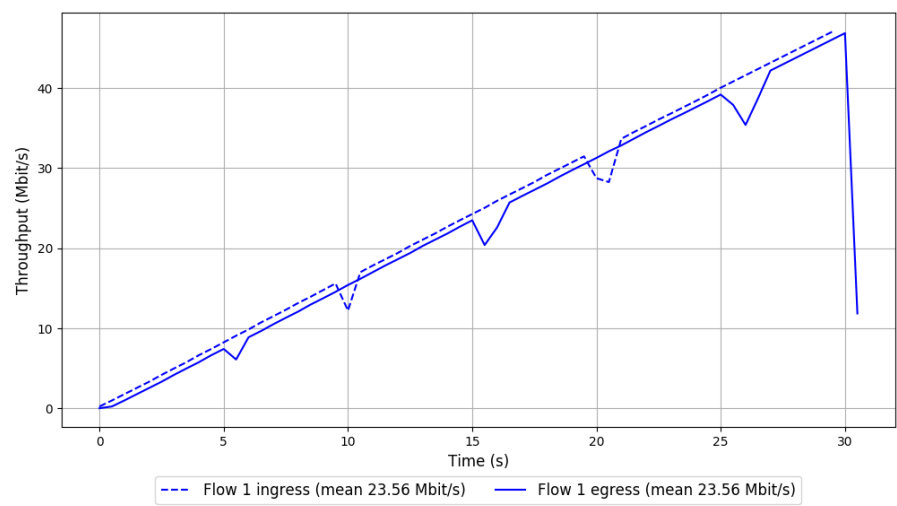
Run 3: Report of Indigo-MusesT — Data Link

```
Run 4: Statistics of Indigo-MusesT

Start at: 2019-02-12 00:33:37
End at: 2019-02-12 00:34:07
Local clock offset: -0.116 ms
Remote clock offset: -0.782 ms


# Below is generated by plot.py at 2019-02-12 03:17:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 663.76 Mbit/s
95th percentile per-packet one-way delay: 113.934 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 663.76 Mbit/s
95th percentile per-packet one-way delay: 113.934 ms
Loss rate: 0.10%
```

Run 4: Report of Indigo-MusesT — Data Link

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```
Run 5: Statistics of Indigo-MusesT

Start at: 2019-02-12 01:05:01
End at: 2019-02-12 01:05:31
Local clock offset: -0.103 ms
Remote clock offset: -1.602 ms


# Below is generated by plot.py at 2019-02-12 03:17:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 675.42 Mbit/s
95th percentile per-packet one-way delay: 114.677 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 675.42 Mbit/s
95th percentile per-packet one-way delay: 114.677 ms
Loss rate: 0.10%
```
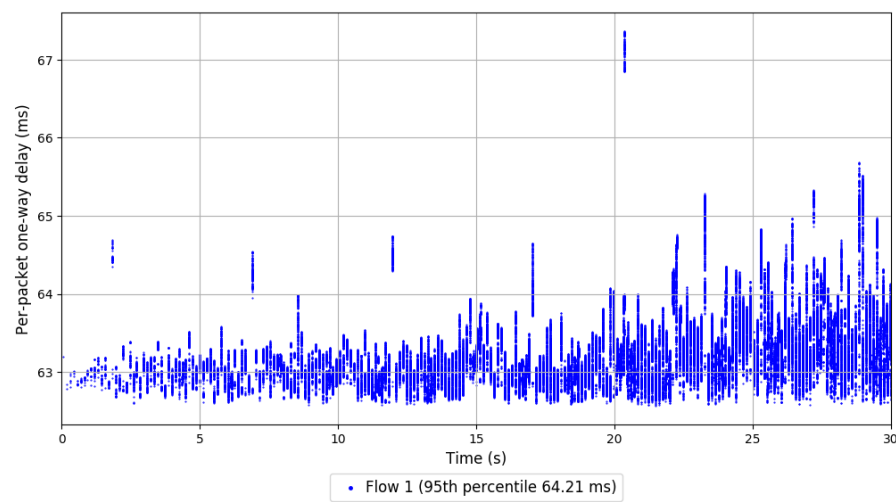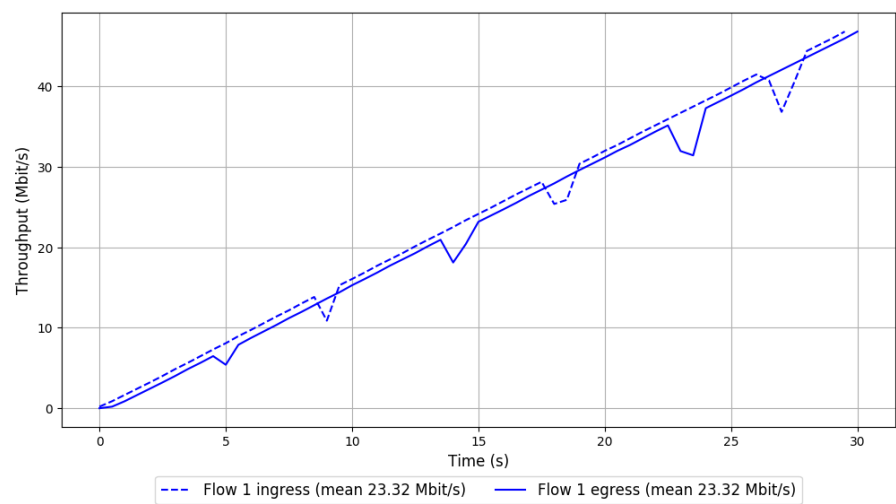
Run 5: Report of Indigo-MusesT — Data Link

```
Run 1: Statistics of LEDBAT

Start at: 2019-02-11 22:58:00
End at: 2019-02-11 22:58:30
Local clock offset: -0.008 ms
Remote clock offset: -0.131 ms


# Below is generated by plot.py at 2019-02-12 03:17:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.56 Mbit/s
95th percentile per-packet one-way delay: 64.009 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 23.56 Mbit/s
95th percentile per-packet one-way delay: 64.009 ms
Loss rate: 0.00%
```
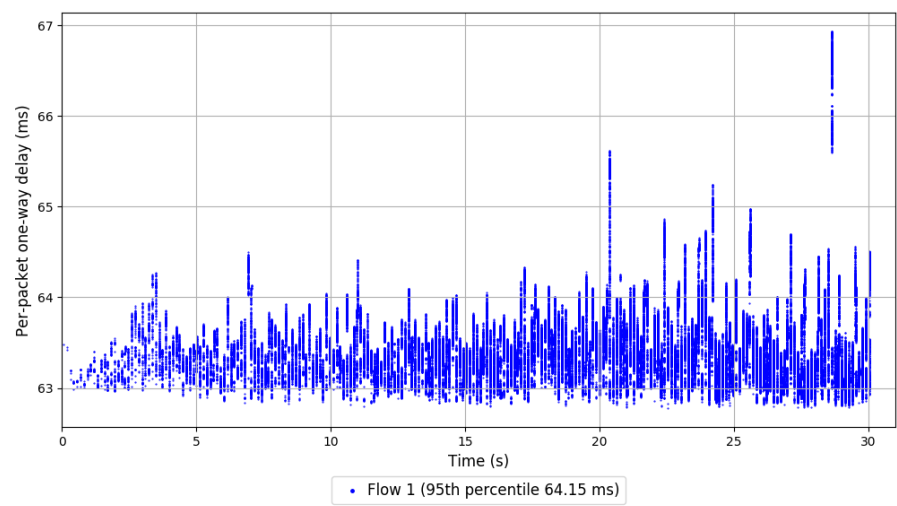
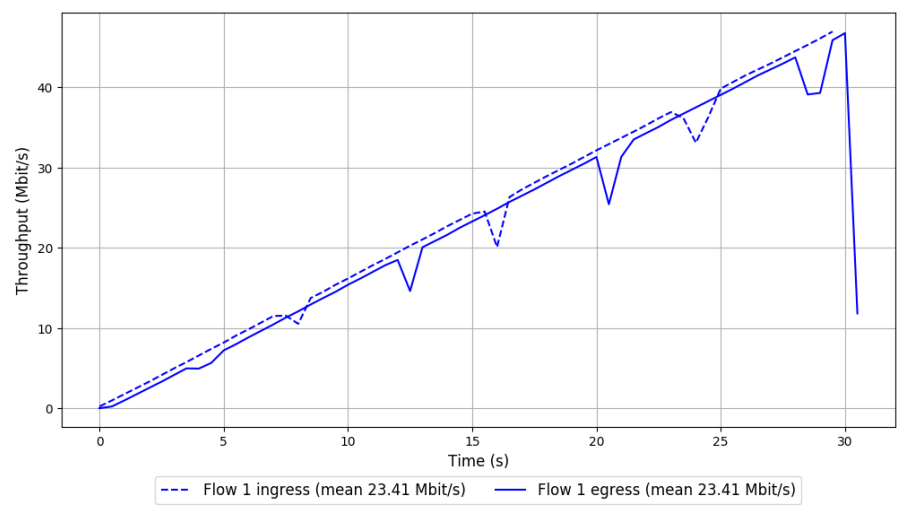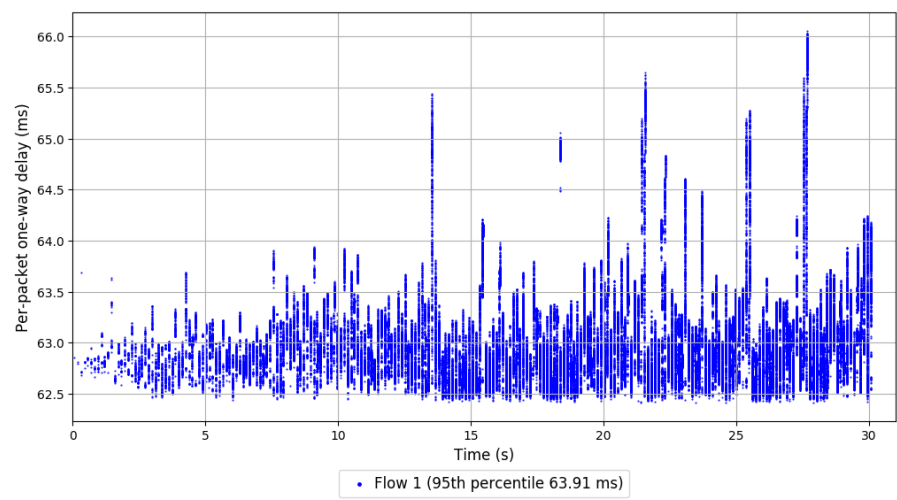# Run 1: Report of LEDBAT — Data Link

```
Run 2: Statistics of LEDBAT

Start at: 2019-02-11 23:29:26
End at: 2019-02-11 23:29:56
Local clock offset: -0.0 ms
Remote clock offset: -0.42 ms


# Below is generated by plot.py at 2019-02-12 03:17:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.32 Mbit/s
95th percentile per-packet one-way delay: 64.214 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 23.32 Mbit/s
95th percentile per-packet one-way delay: 64.214 ms
Loss rate: 0.00%
```
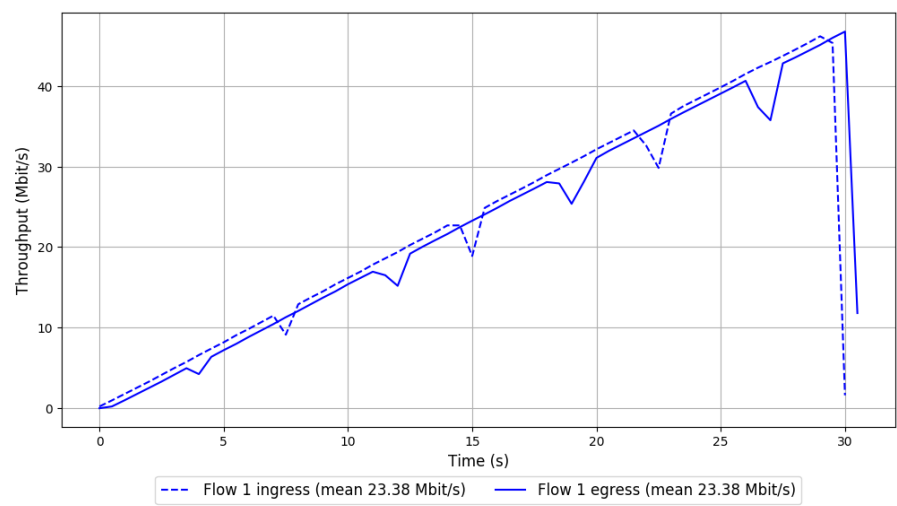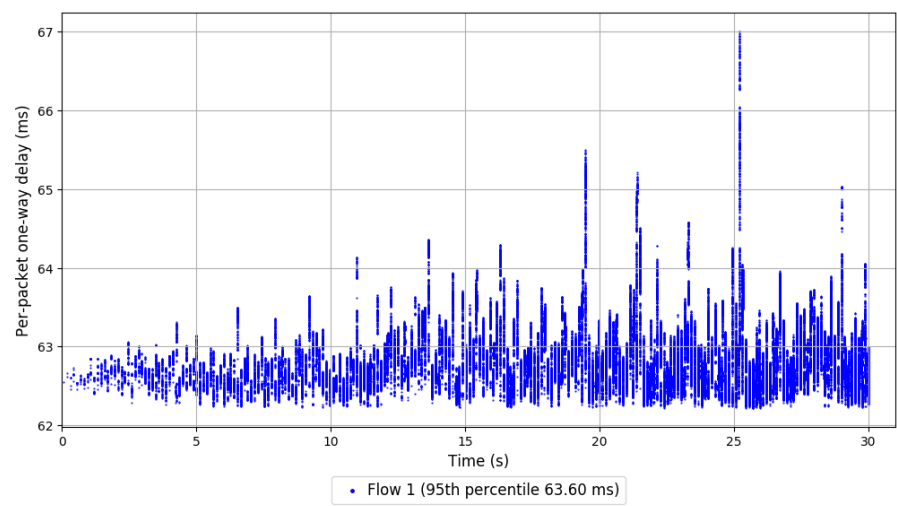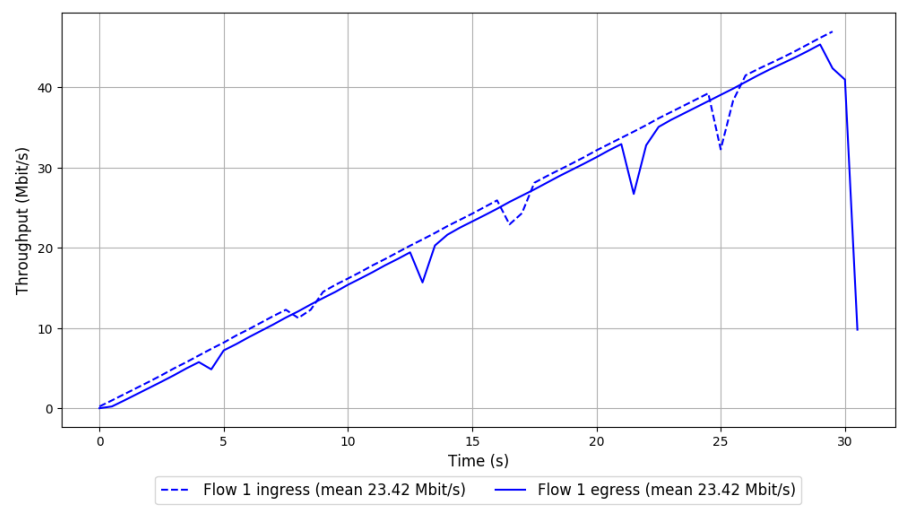
Run 2: Report of LEDBAT — Data Link

Flow 1 ingress (mean 23.32 Mbit/s) --- Flow 1 egress (mean 23.32 Mbit/s)

• Flow 1 (95th percentile 64.21 ms)

```
Run 3: Statistics of LEDBAT

Start at: 2019-02-12 00:00:53
End at: 2019-02-12 00:01:23
Local clock offset: -0.101 ms
Remote clock offset: -0.096 ms


# Below is generated by plot.py at 2019-02-12 03:17:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.41 Mbit/s
95th percentile per-packet one-way delay: 64.148 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 23.41 Mbit/s
95th percentile per-packet one-way delay: 64.148 ms
Loss rate: 0.00%
```

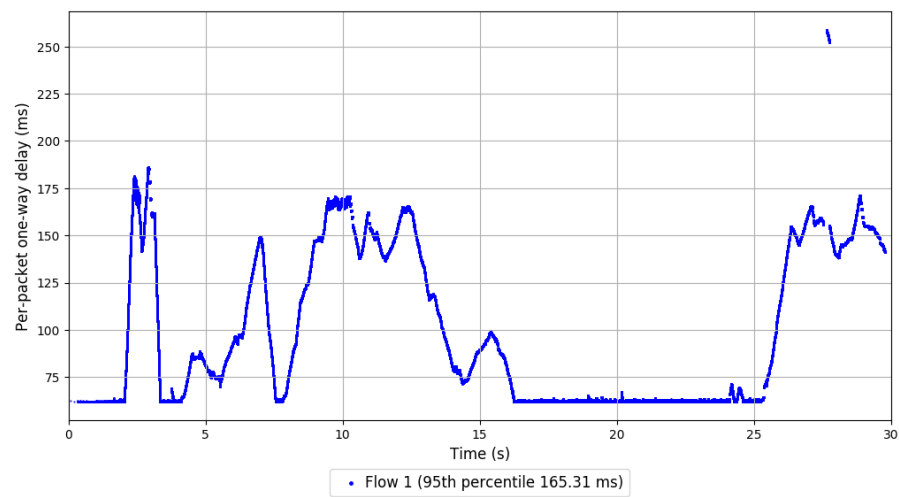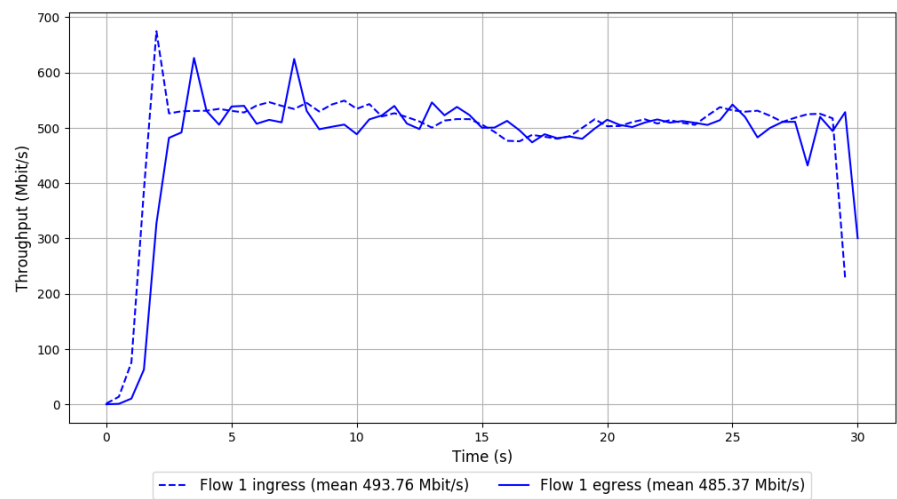## Run 3: Report of LEDBAT — Data Link

Flow 1 ingress (mean 23.41 Mbit/s) --- Flow 1 egress (mean 23.41 Mbit/s)

• Flow 1 (95th percentile 64.15 ms)

```
Run 4: Statistics of LEDBAT

Start at: 2019-02-12 00:32:27
End at: 2019-02-12 00:32:57
Local clock offset: -0.068 ms
Remote clock offset: -0.674 ms

# Below is generated by plot.py at 2019-02-12 03:17:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.38 Mbit/s
95th percentile per-packet one-way delay: 63.915 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 23.38 Mbit/s
95th percentile per-packet one-way delay: 63.915 ms
Loss rate: 0.00%
```
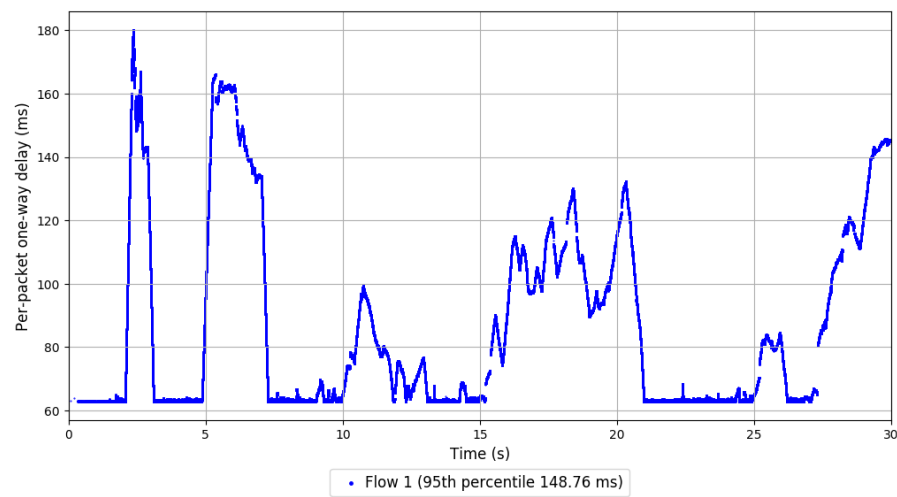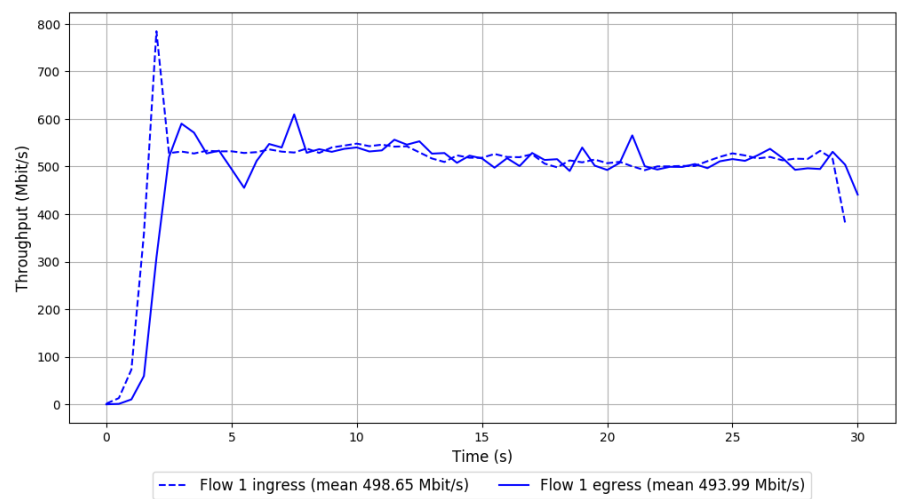
Run 4: Report of LEDBAT — Data Link

```
Run 5: Statistics of LEDBAT

Start at: 2019-02-12 01:03:50
End at: 2019-02-12 01:04:20
Local clock offset: -0.106 ms
Remote clock offset: -0.801 ms


# Below is generated by plot.py at 2019-02-12 03:17:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.42 Mbit/s
95th percentile per-packet one-way delay: 63.603 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 23.42 Mbit/s
95th percentile per-packet one-way delay: 63.603 ms
Loss rate: 0.00%
```

Run 5: Report of LEDBAT — Data Link

```
Run 1: Statistics of PCC-Allegro

Start at: 2019-02-11 23:03:32
End at: 2019-02-11 23:04:03
Local clock offset: -0.007 ms
Remote clock offset: -0.861 ms


# Below is generated by plot.py at 2019-02-12 03:28:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 485.37 Mbit/s
95th percentile per-packet one-way delay: 165.310 ms
Loss rate: 1.69%
-- Flow 1:
Average throughput: 485.37 Mbit/s
95th percentile per-packet one-way delay: 165.310 ms
Loss rate: 1.69%
```
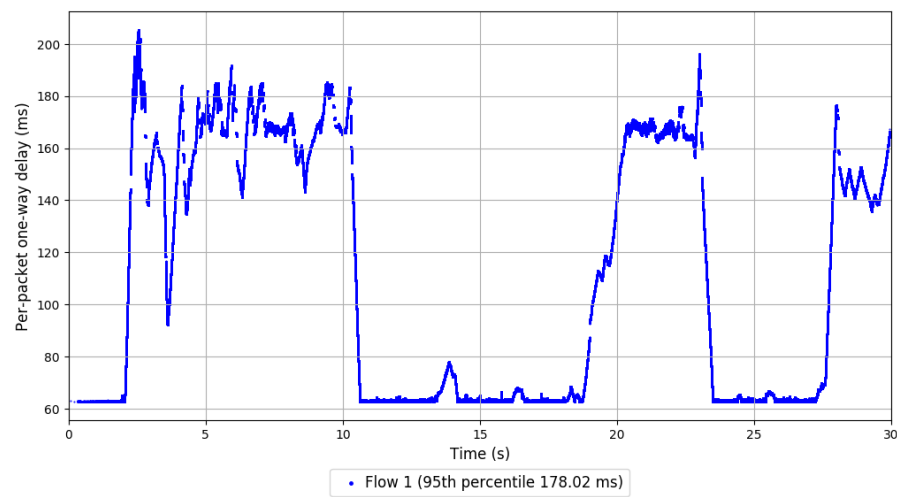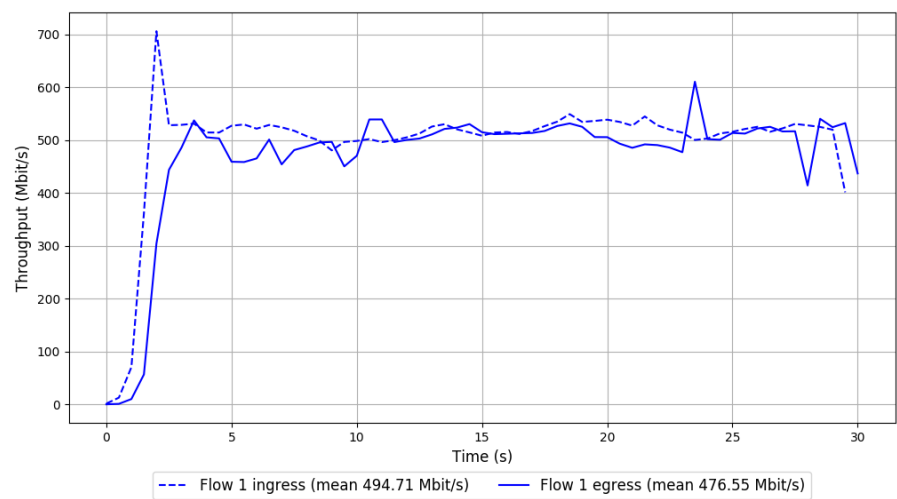
Run 1: Report of PCC-Allegro — Data Link

```
Run 2: Statistics of PCC-Allegro

Start at: 2019-02-11 23:35:05
End at: 2019-02-11 23:35:35
Local clock offset: -0.008 ms
Remote clock offset: -0.151 ms


# Below is generated by plot.py at 2019-02-12 03:29:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 493.99 Mbit/s
95th percentile per-packet one-way delay: 148.757 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 493.99 Mbit/s
95th percentile per-packet one-way delay: 148.757 ms
Loss rate: 0.93%
```
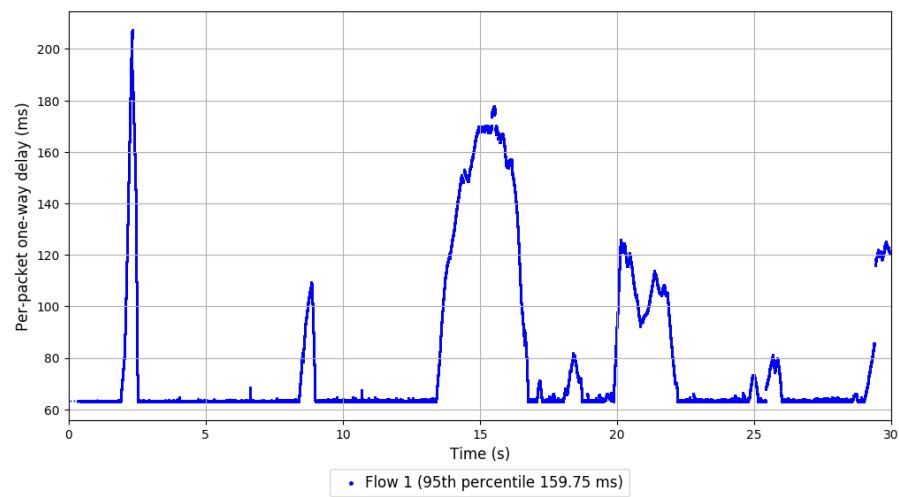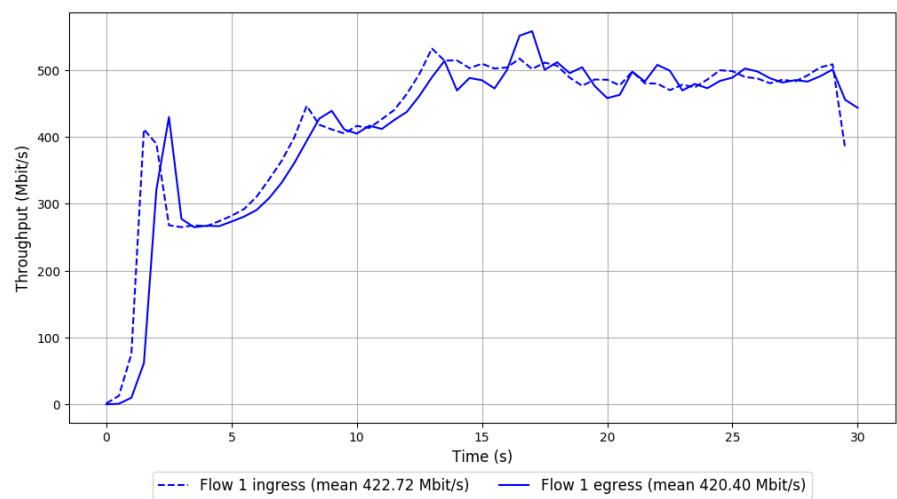
Run 2: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 498.65 Mbit/s) Flow 1 egress (mean 493.99 Mbit/s)

• Flow 1 (95th percentile 148.76 ms)

```
Run 3: Statistics of PCC-Allegro

Start at: 2019-02-12 00:06:30
End at: 2019-02-12 00:07:00
Local clock offset: -0.096 ms
Remote clock offset: -0.03 ms


# Below is generated by plot.py at 2019-02-12 03:31:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 476.55 Mbit/s
95th percentile per-packet one-way delay: 178.018 ms
Loss rate: 3.66%
-- Flow 1:
Average throughput: 476.55 Mbit/s
95th percentile per-packet one-way delay: 178.018 ms
Loss rate: 3.66%
```
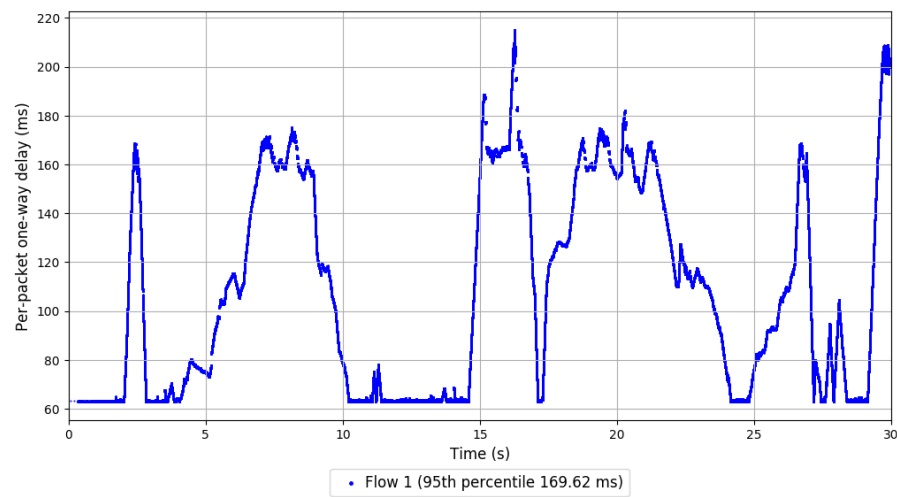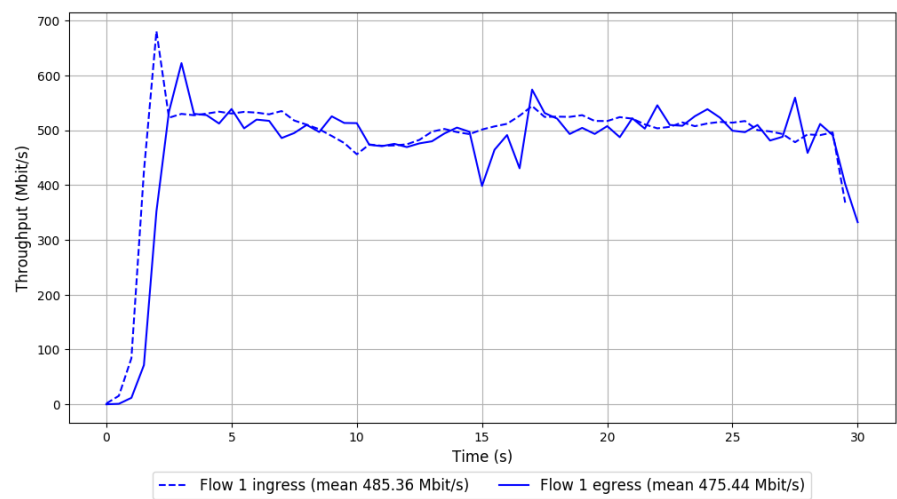
Run 3: Report of PCC-Allegro — Data Link

```
Run 4: Statistics of PCC-Allegro

Start at: 2019-02-12 00:38:03
End at: 2019-02-12 00:38:33
Local clock offset: -0.1 ms
Remote clock offset: -0.12 ms


# Below is generated by plot.py at 2019-02-12 03:31:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 420.40 Mbit/s
95th percentile per-packet one-way delay: 159.753 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 420.40 Mbit/s
95th percentile per-packet one-way delay: 159.753 ms
Loss rate: 0.55%
```
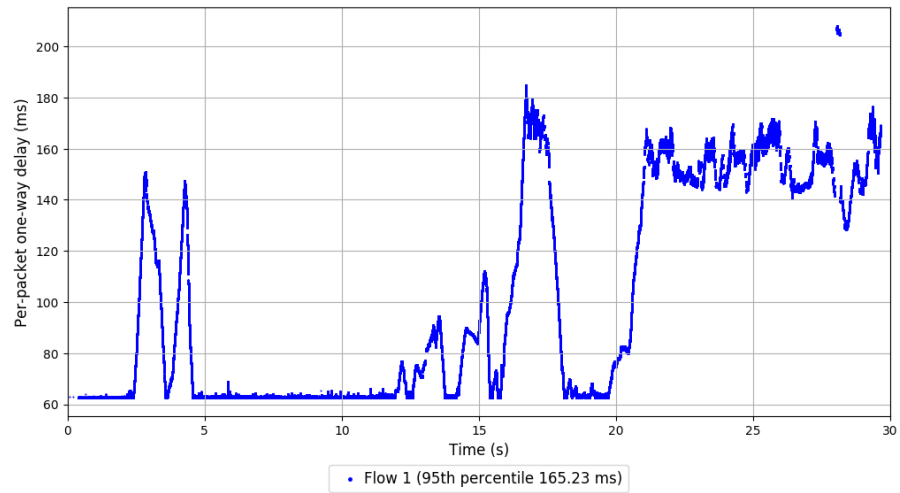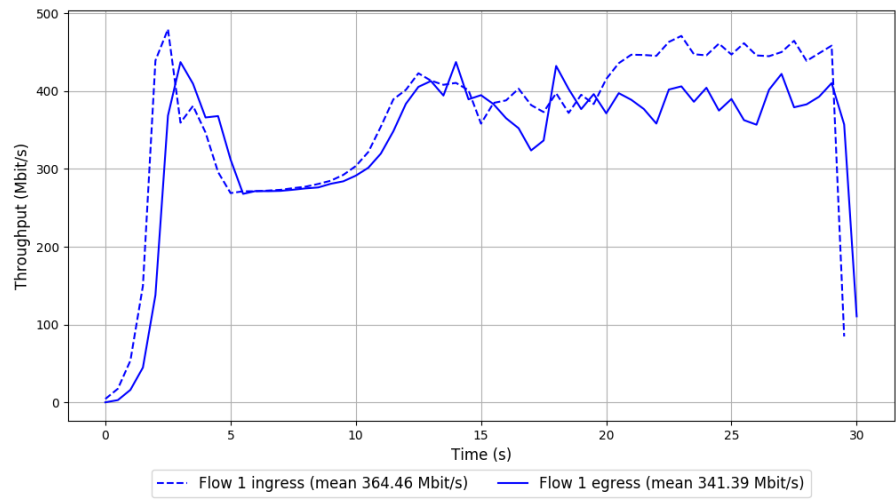
Run 4: Report of PCC-Allegro — Data Link

```
Run 5: Statistics of PCC-Allegro

Start at: 2019-02-12 01:09:28
End at: 2019-02-12 01:09:58
Local clock offset: -0.137 ms
Remote clock offset: -0.188 ms


# Below is generated by plot.py at 2019-02-12 03:33:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 475.44 Mbit/s
95th percentile per-packet one-way delay: 169.618 ms
Loss rate: 2.04%
-- Flow 1:
Average throughput: 475.44 Mbit/s
95th percentile per-packet one-way delay: 169.618 ms
Loss rate: 2.04%
```
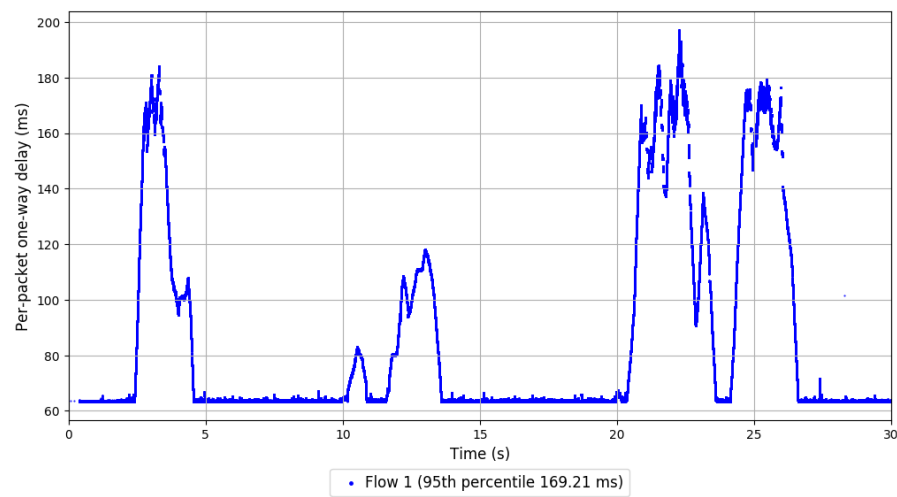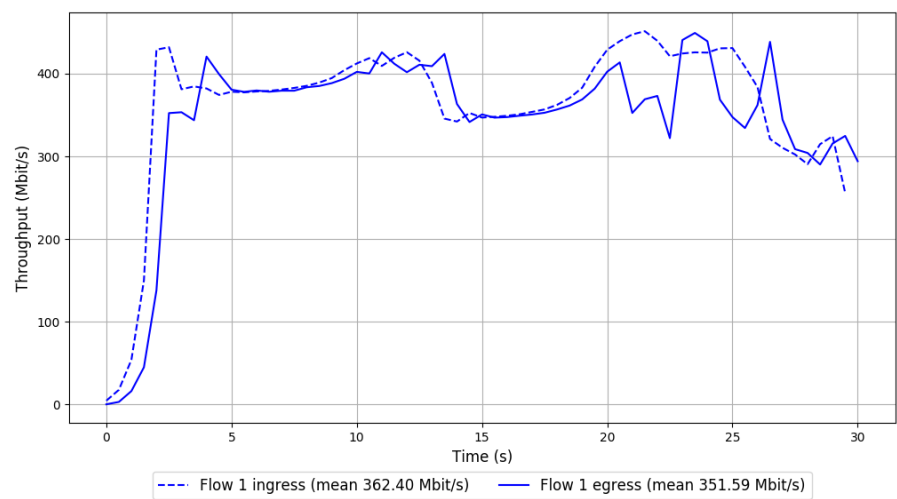
Run 5: Report of PCC-Allegro — Data Link

```
Run 1: Statistics of PCC-Expr

Start at: 2019-02-11 22:50:10
End at: 2019-02-11 22:50:40
Local clock offset: -0.019 ms
Remote clock offset: -0.172 ms


# Below is generated by plot.py at 2019-02-12 03:33:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 341.39 Mbit/s
95th percentile per-packet one-way delay: 165.232 ms
Loss rate: 6.33%
-- Flow 1:
Average throughput: 341.39 Mbit/s
95th percentile per-packet one-way delay: 165.232 ms
Loss rate: 6.33%
```
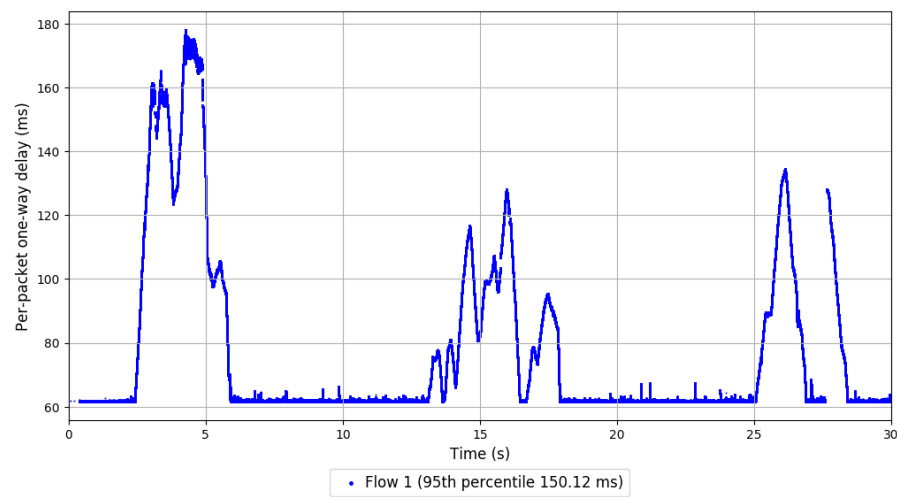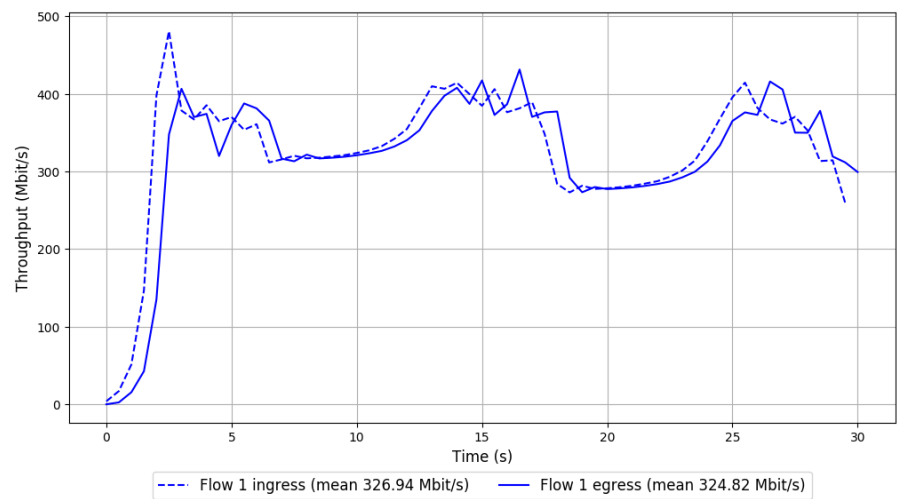
Run 1: Report of PCC-Expr — Data Link

```
Run 2: Statistics of PCC-Expr

Start at: 2019-02-11 23:21:39
End at: 2019-02-11 23:22:09
Local clock offset: 0.021 ms
Remote clock offset: 0.461 ms


# Below is generated by plot.py at 2019-02-12 03:33:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 351.59 Mbit/s
95th percentile per-packet one-way delay: 169.209 ms
Loss rate: 2.98%
-- Flow 1:
Average throughput: 351.59 Mbit/s
95th percentile per-packet one-way delay: 169.209 ms
Loss rate: 2.98%
```
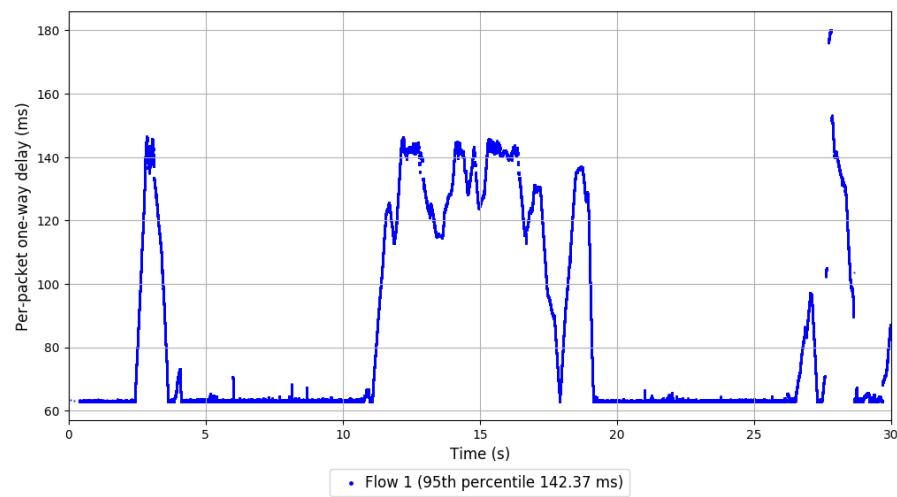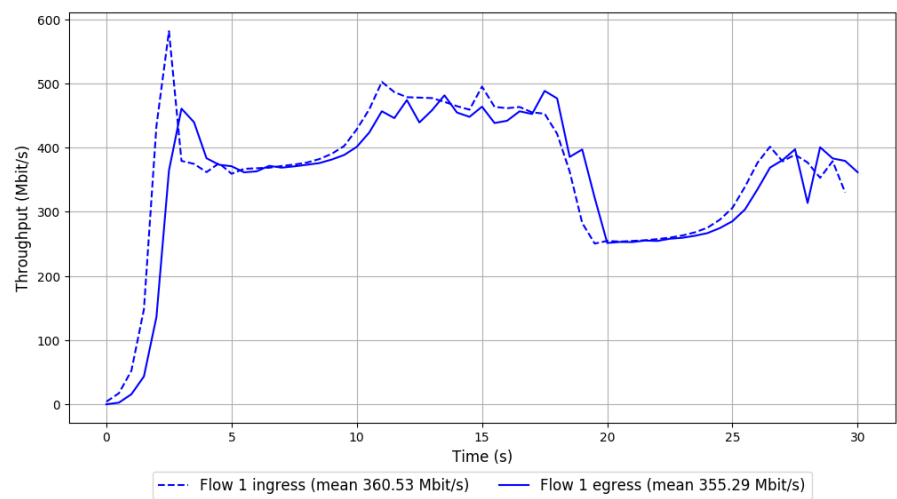
Run 2: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 362.40 Mbit/s)   Flow 1 egress (mean 351.59 Mbit/s)

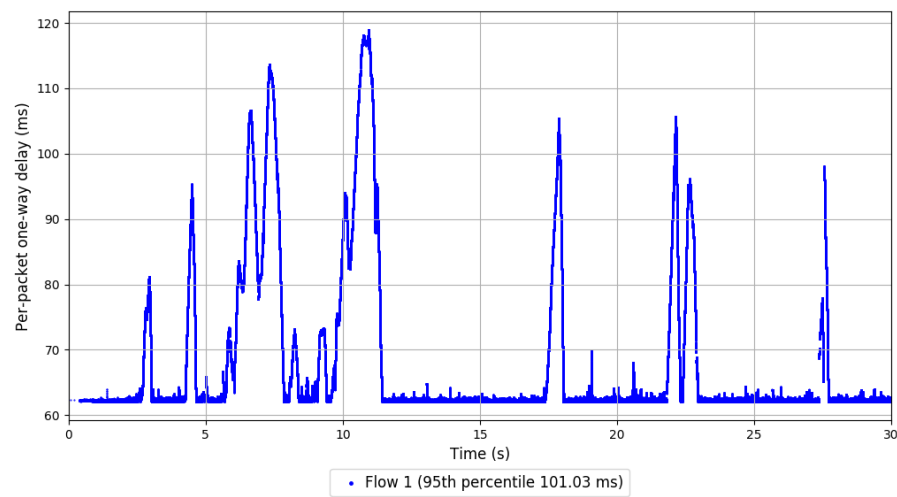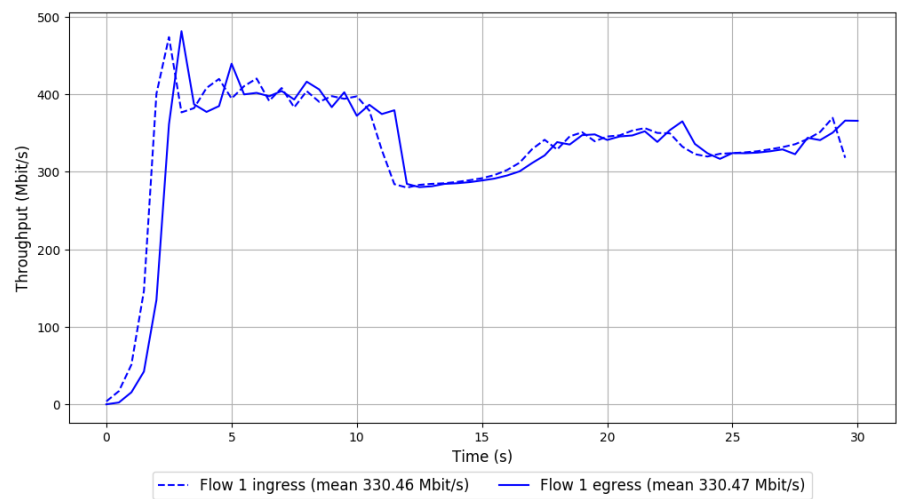
• Flow 1 (95th percentile 169.21 ms)

```
Run 3: Statistics of PCC-Expr

Start at: 2019-02-11 23:53:07
End at: 2019-02-11 23:53:37
Local clock offset: -0.061 ms
Remote clock offset: -1.483 ms


# Below is generated by plot.py at 2019-02-12 03:33:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 324.82 Mbit/s
95th percentile per-packet one-way delay: 150.124 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 324.82 Mbit/s
95th percentile per-packet one-way delay: 150.124 ms
Loss rate: 0.65%
```

Run 3: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 326.94 Mbit/s)   Flow 1 egress (mean 324.82 Mbit/s)

• Flow 1 (95th percentile 150.12 ms)

```
Run 4: Statistics of PCC-Expr

Start at: 2019-02-12 00:24:36
End at: 2019-02-12 00:25:06
Local clock offset: -0.113 ms
Remote clock offset: 0.017 ms


# Below is generated by plot.py at 2019-02-12 03:44:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 355.29 Mbit/s
95th percentile per-packet one-way delay: 142.369 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 355.29 Mbit/s
95th percentile per-packet one-way delay: 142.369 ms
Loss rate: 1.45%
```

Run 4: Report of PCC-Expr — Data Link
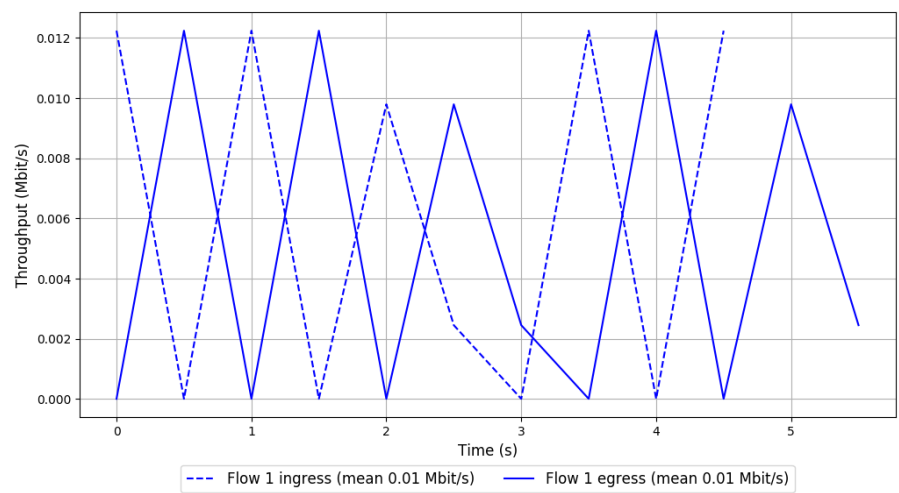
```
Run 5: Statistics of PCC-Expr

Start at: 2019-02-12 00:56:00
End at: 2019-02-12 00:56:30
Local clock offset: -0.09 ms
Remote clock offset: -0.673 ms


# Below is generated by plot.py at 2019-02-12 03:44:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 330.47 Mbit/s
95th percentile per-packet one-way delay: 101.034 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 330.47 Mbit/s
95th percentile per-packet one-way delay: 101.034 ms
Loss rate: 0.00%
```
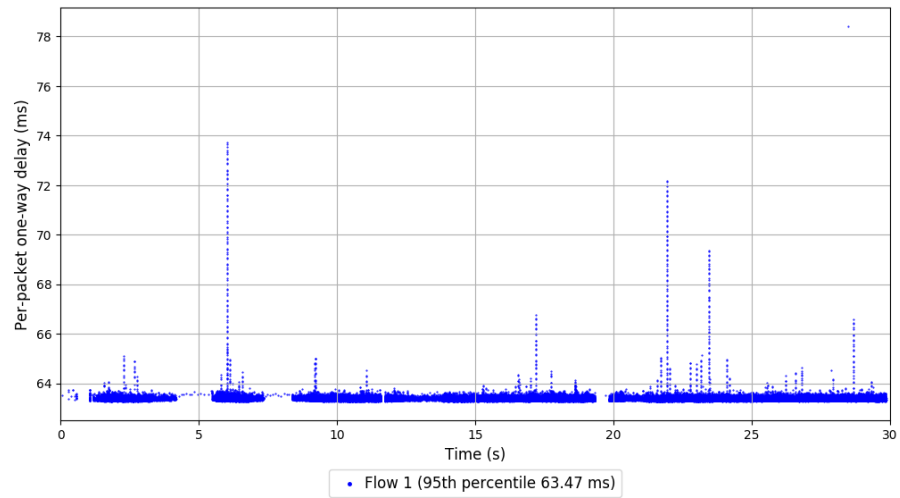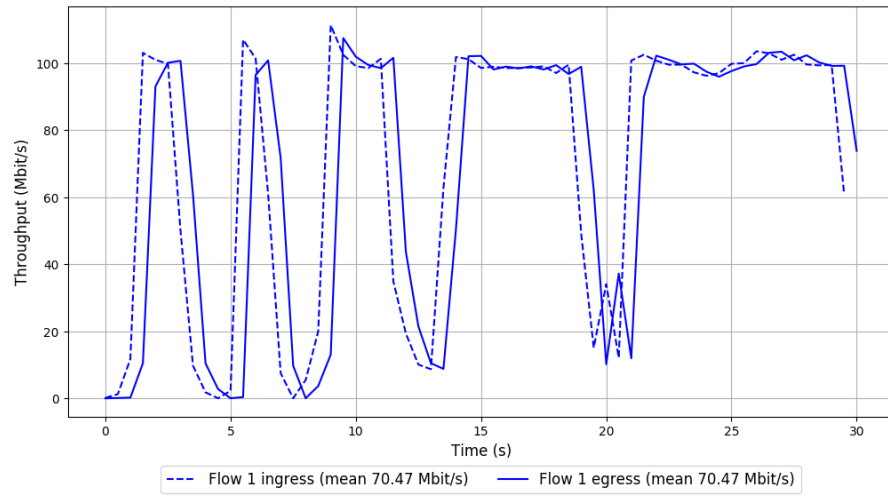
Run 5: Report of PCC-Expr — Data Link

```
Run 1: Statistics of QUIC Cubic

Start at: 2019-02-11 23:00:50
End at: 2019-02-11 23:01:20
Local clock offset: -0.002 ms
Remote clock offset: -1.47 ms
```

Run 1: Report of QUIC Cubic — Data Link

```
Run 2: Statistics of QUIC Cubic

Start at: 2019-02-11 23:32:17
End at: 2019-02-11 23:32:47
Local clock offset: 0.013 ms
Remote clock offset: 0.435 ms


# Below is generated by plot.py at 2019-02-12 03:44:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.47 Mbit/s
95th percentile per-packet one-way delay: 63.466 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 70.47 Mbit/s
95th percentile per-packet one-way delay: 63.466 ms
Loss rate: 0.00%
```
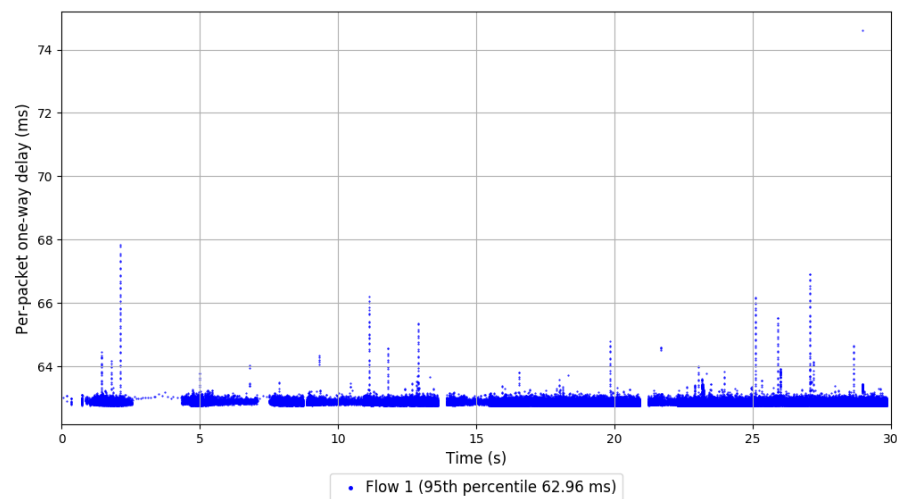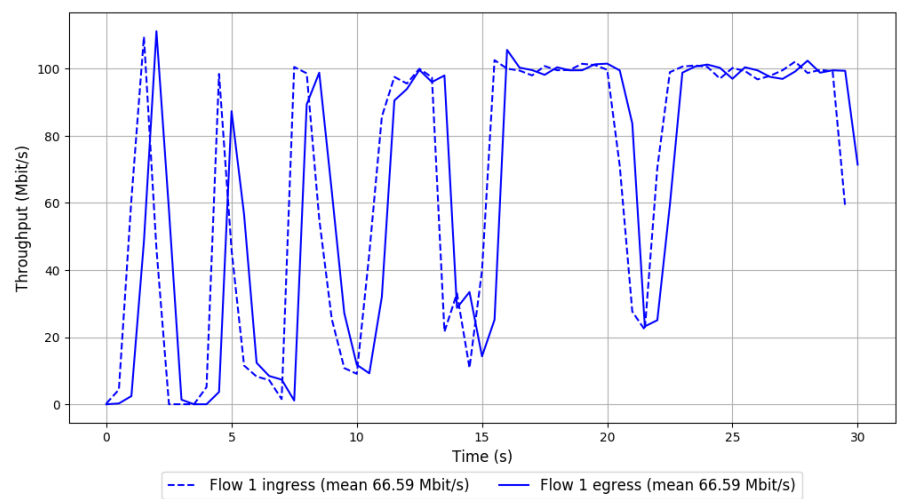
Run 2: Report of QUIC Cubic — Data Link

```
Run 3: Statistics of QUIC Cubic

Start at: 2019-02-12 00:03:44
End at: 2019-02-12 00:04:14
Local clock offset: -0.084 ms
Remote clock offset: -0.081 ms


# Below is generated by plot.py at 2019-02-12 03:44:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.59 Mbit/s
95th percentile per-packet one-way delay: 62.964 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 66.59 Mbit/s
95th percentile per-packet one-way delay: 62.964 ms
Loss rate: 0.00%
```
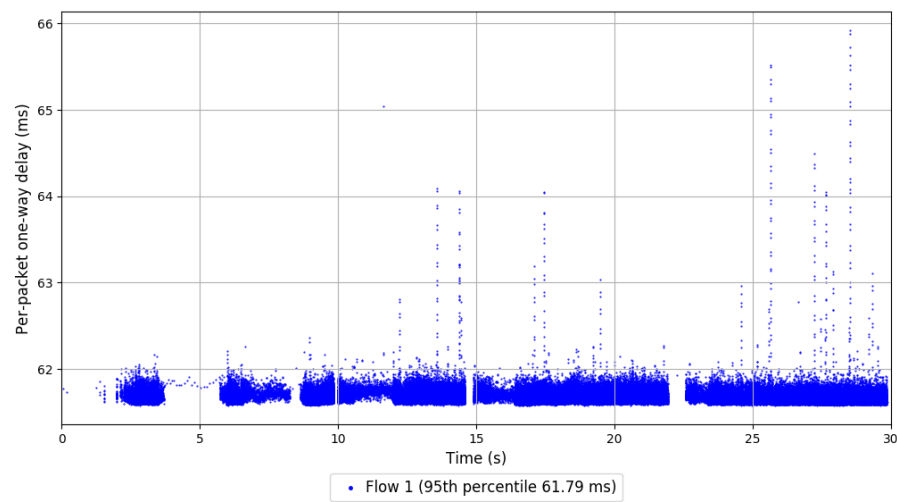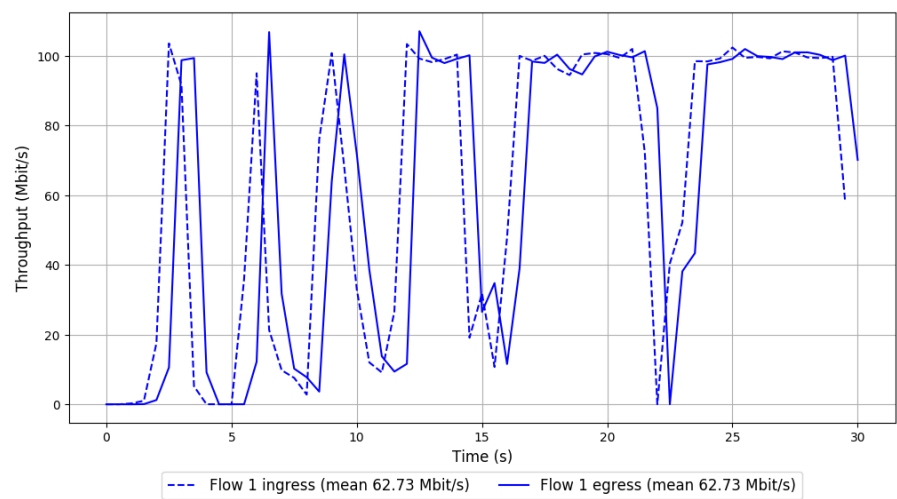
Run 3: Report of QUIC Cubic — Data Link

```
Run 4: Statistics of QUIC Cubic

Start at: 2019-02-12 00:35:16
End at: 2019-02-12 00:35:46
Local clock offset: -0.097 ms
Remote clock offset: -1.181 ms


# Below is generated by plot.py at 2019-02-12 03:44:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.73 Mbit/s
95th percentile per-packet one-way delay: 61.791 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 62.73 Mbit/s
95th percentile per-packet one-way delay: 61.791 ms
Loss rate: 0.00%
```
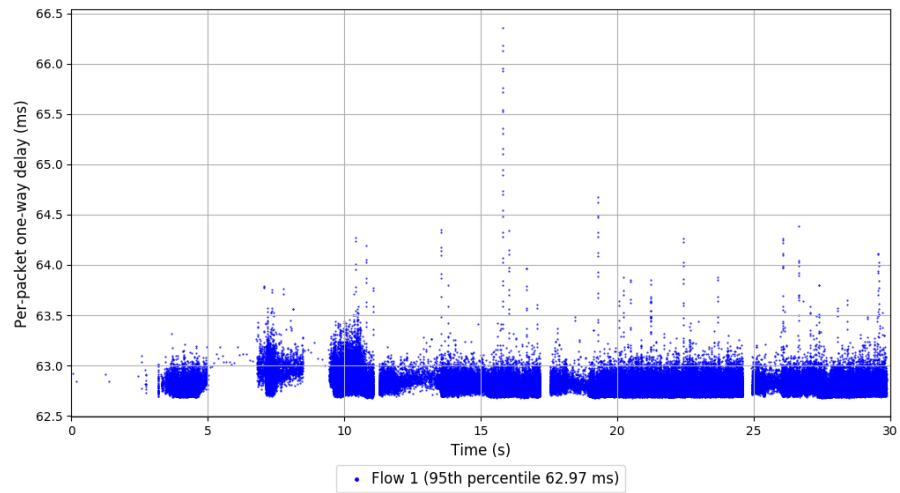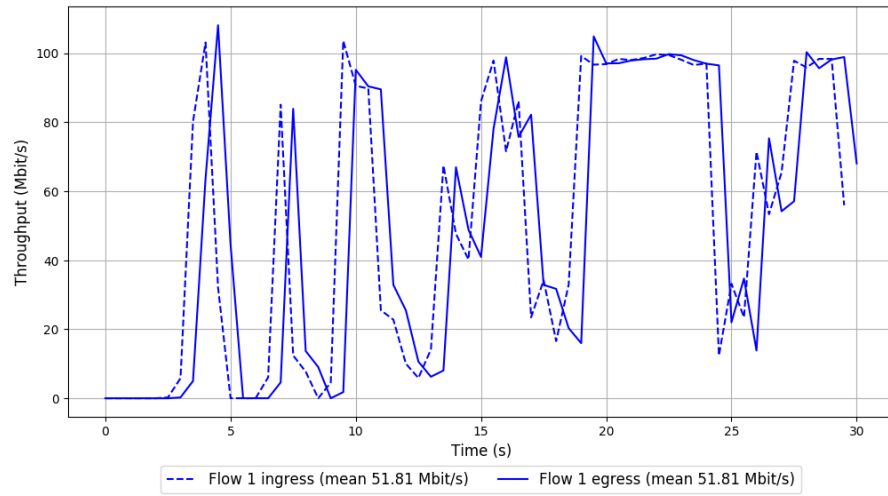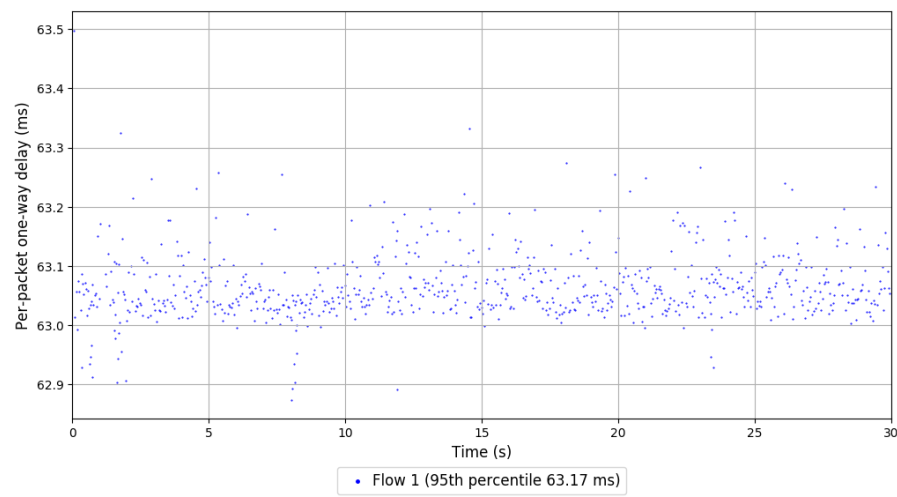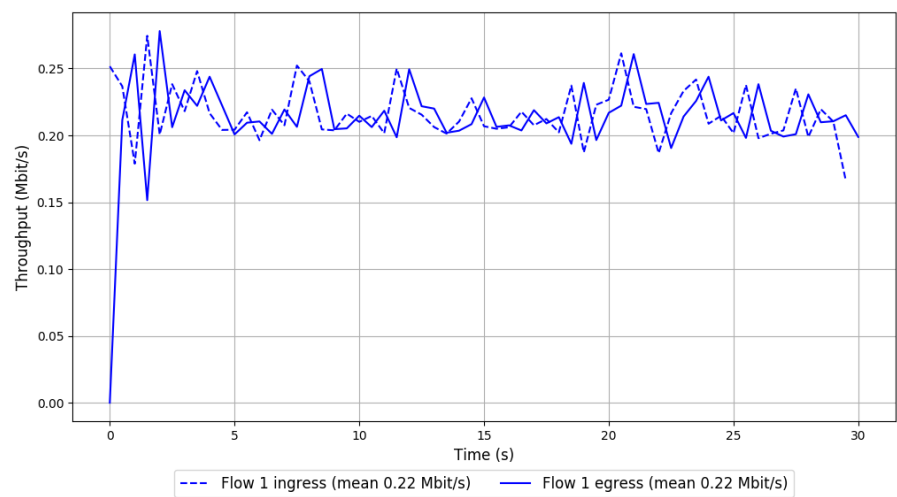
Run 4: Report of QUIC Cubic — Data Link

```
Run 5: Statistics of QUIC Cubic

Start at: 2019-02-12 01:06:40
End at: 2019-02-12 01:07:10
Local clock offset: -0.093 ms
Remote clock offset: 0.061 ms


# Below is generated by plot.py at 2019-02-12 03:44:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 51.81 Mbit/s
95th percentile per-packet one-way delay: 62.974 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 51.81 Mbit/s
95th percentile per-packet one-way delay: 62.974 ms
Loss rate: 0.00%
```
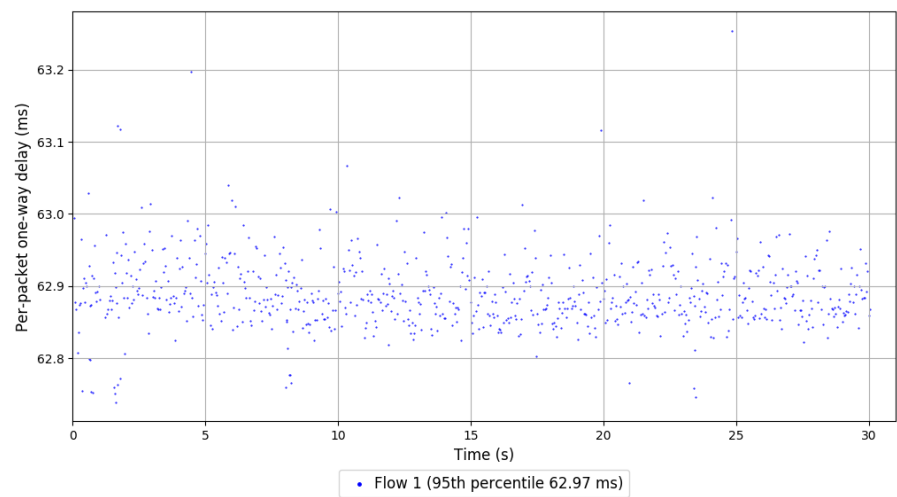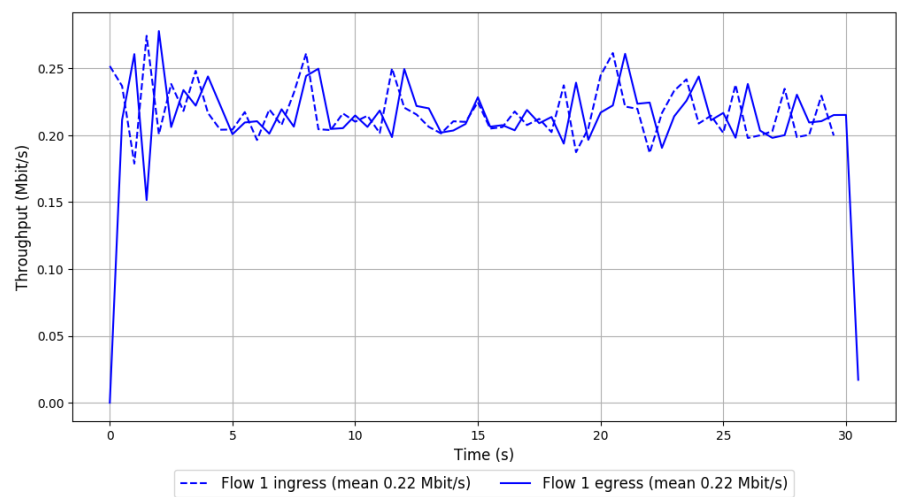
Run 5: Report of QUIC Cubic — Data Link

```
Run 1: Statistics of SCReAM

Start at: 2019-02-11 22:46:14
End at: 2019-02-11 22:46:44
Local clock offset: -0.06 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2019-02-12 03:44:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.173 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.173 ms
Loss rate: 0.00%
```
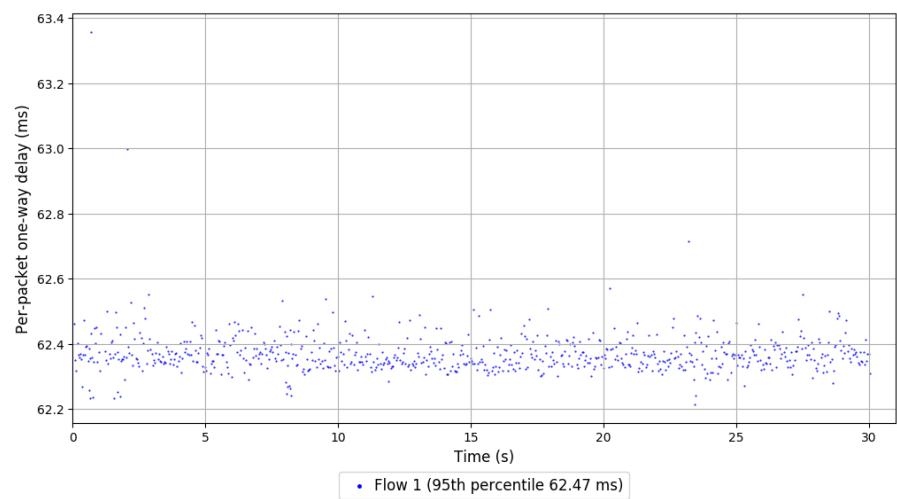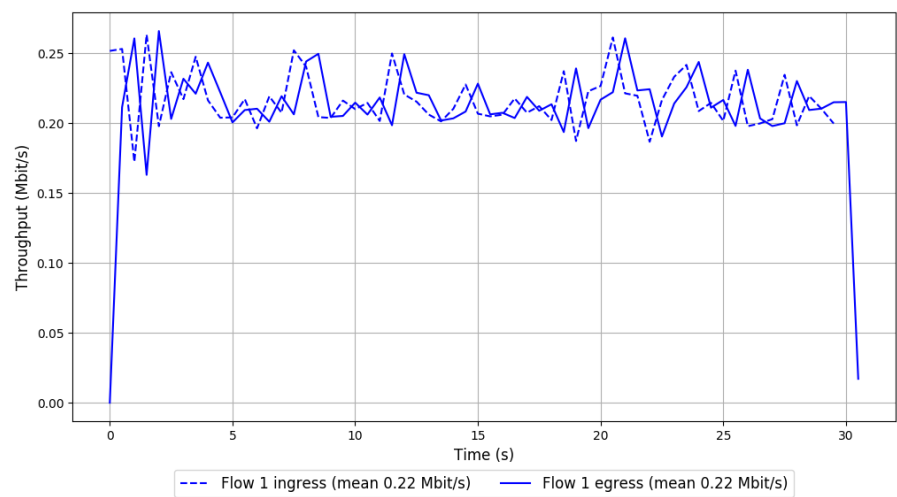
Run 1: Report of SCReAM — Data Link

```
Run 2: Statistics of SCReAM

Start at: 2019-02-11 23:17:29
End at: 2019-02-11 23:17:59
Local clock offset: 0.036 ms
Remote clock offset: -0.183 ms


# Below is generated by plot.py at 2019-02-12 03:44:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.973 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.973 ms
Loss rate: 0.00%
```
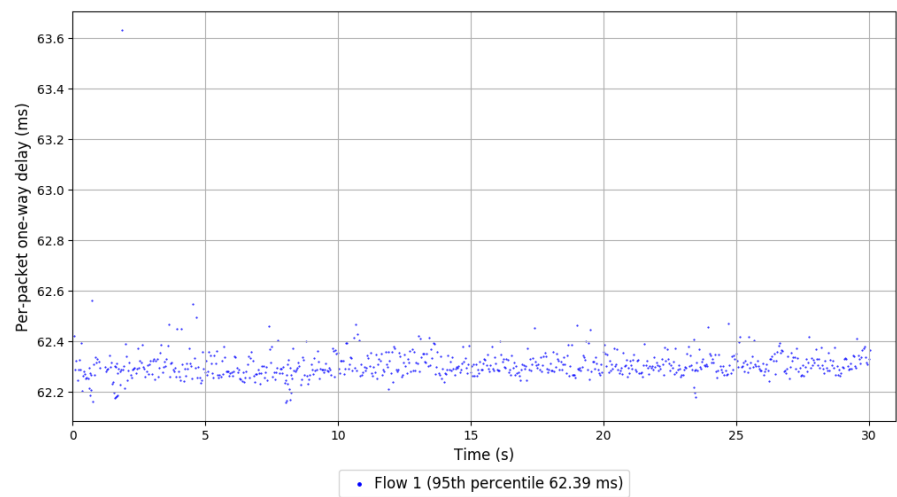
Run 2: Report of SCReAM — Data Link

```
Run 3: Statistics of SCReAM

Start at: 2019-02-11 23:48:55
End at: 2019-02-11 23:49:25
Local clock offset: -0.039 ms
Remote clock offset: -0.747 ms


# Below is generated by plot.py at 2019-02-12 03:44:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.465 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.465 ms
Loss rate: 0.00%
```

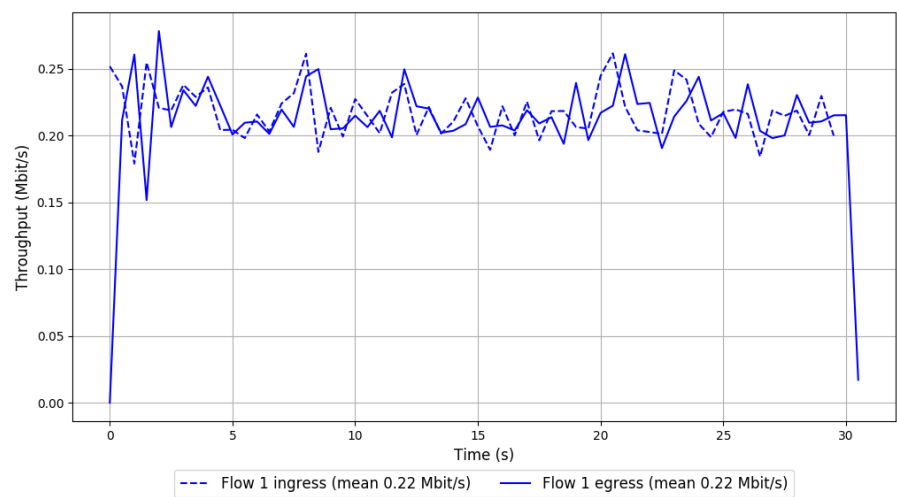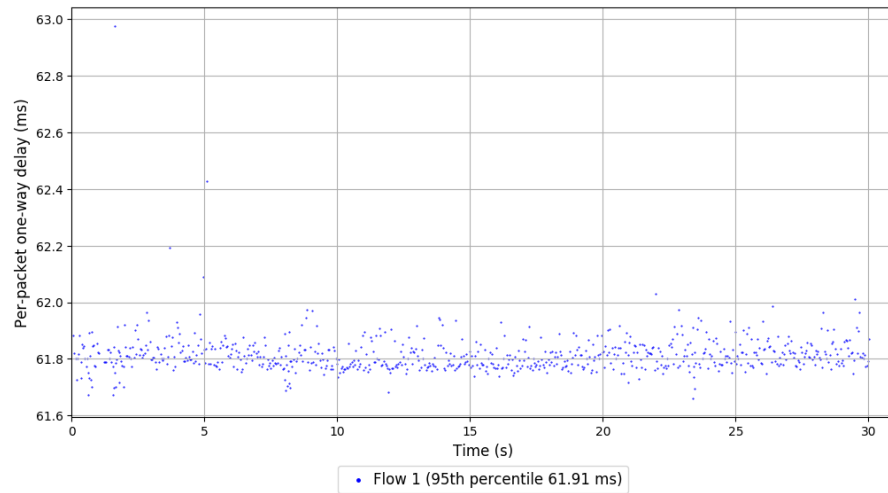Run 3: Report of SCReAM — Data Link

```
Run 4: Statistics of SCReAM

Start at: 2019-02-12 00:20:21
End at: 2019-02-12 00:20:51
Local clock offset: -0.14 ms
Remote clock offset: -0.757 ms


# Below is generated by plot.py at 2019-02-12 03:44:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.389 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.389 ms
Loss rate: 0.00%
```

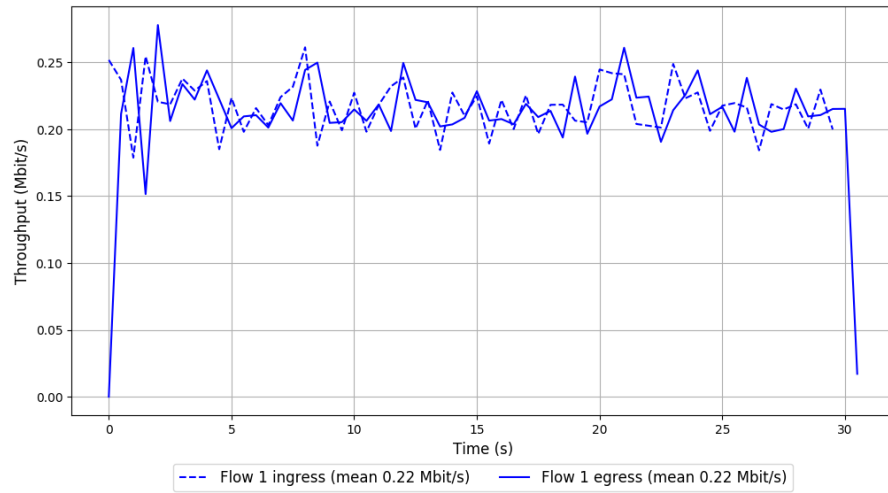# Run 4: Report of SCReAM — Data Link

```
Run 5: Statistics of SCReAM

Start at: 2019-02-12 00:51:46
End at: 2019-02-12 00:52:16
Local clock offset: -0.079 ms
Remote clock offset: -1.214 ms


# Below is generated by plot.py at 2019-02-12 03:44:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.911 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.911 ms
Loss rate: 0.00%
```

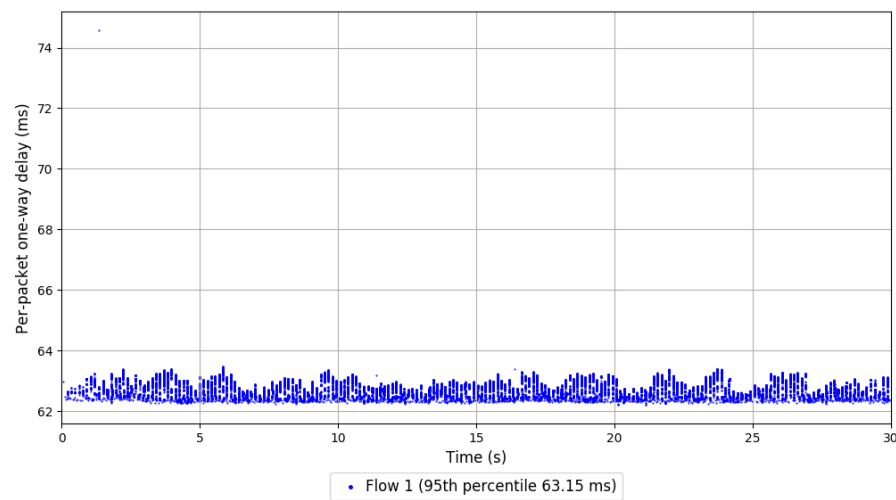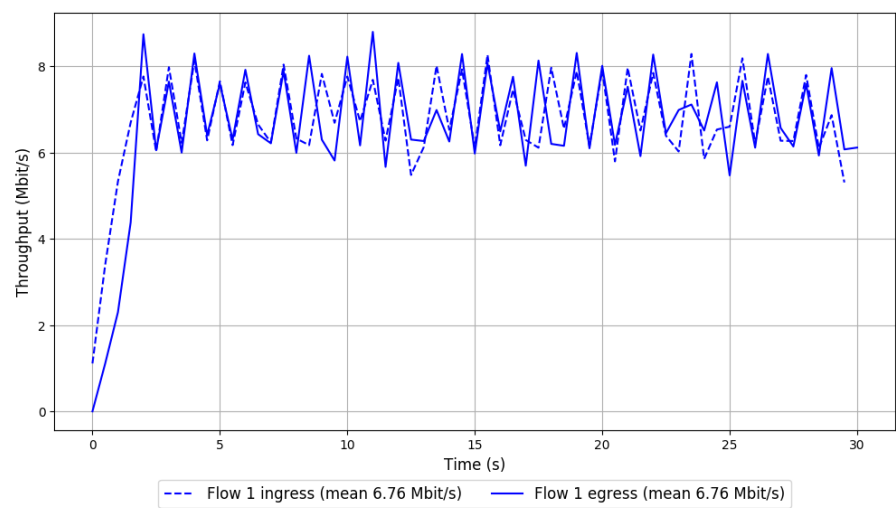## Run 5: Report of SCReAM — Data Link

```
Run 1: Statistics of Sprout

Start at: 2019-02-11 23:11:18
End at: 2019-02-11 23:11:48
Local clock offset: 0.026 ms
Remote clock offset: -0.694 ms


# Below is generated by plot.py at 2019-02-12 03:44:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.76 Mbit/s
95th percentile per-packet one-way delay: 63.148 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.76 Mbit/s
95th percentile per-packet one-way delay: 63.148 ms
Loss rate: 0.00%
```

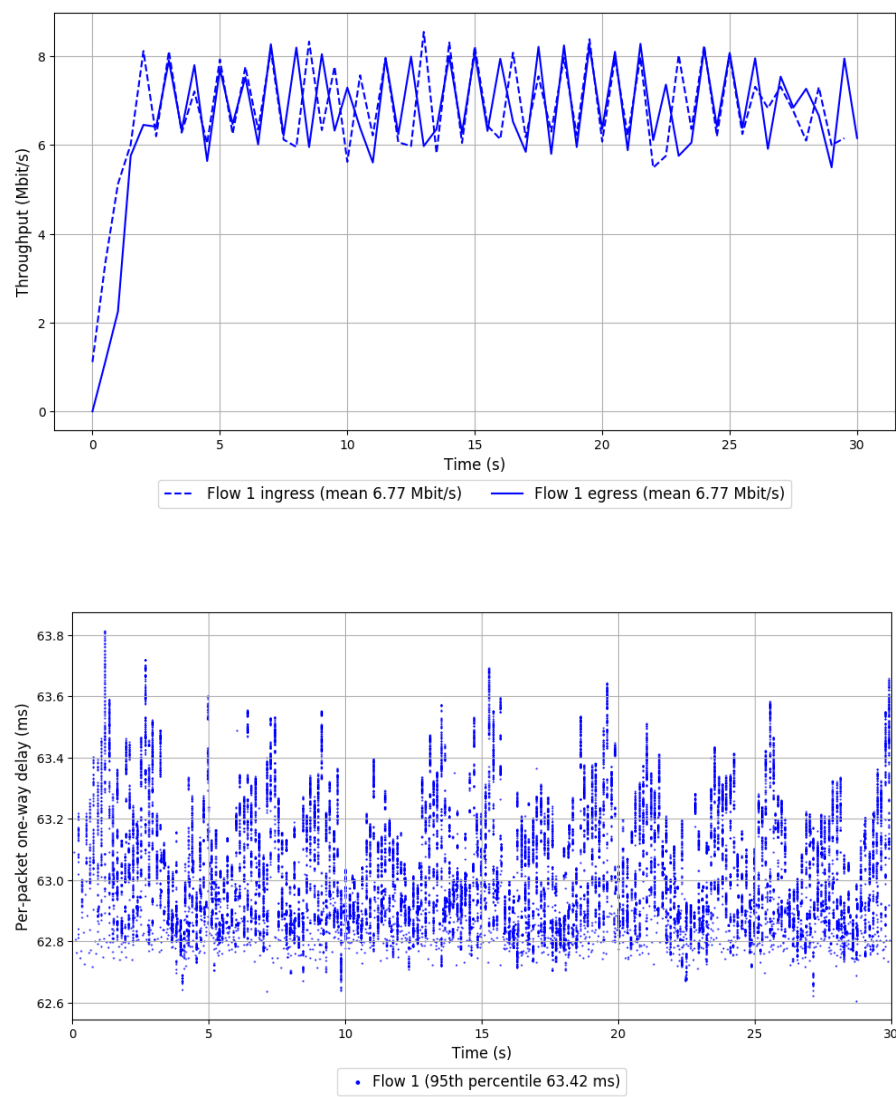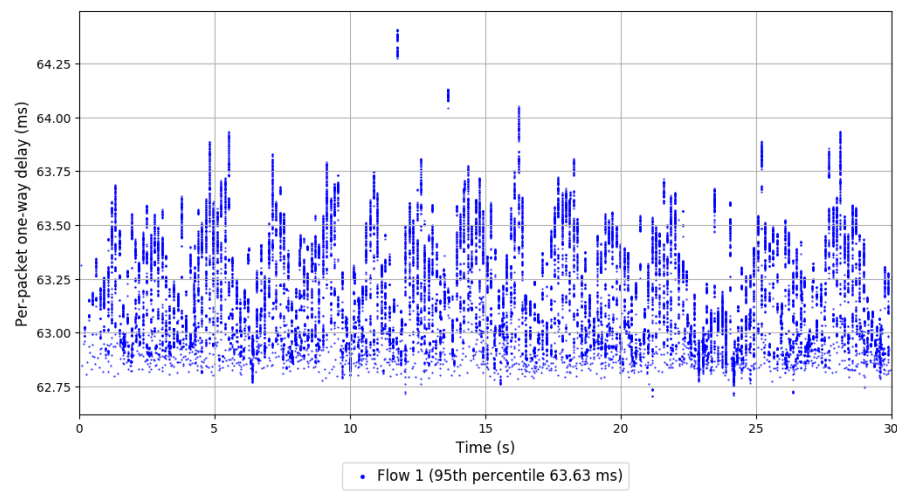Run 1: Report of Sprout — Data Link

```
Run 2: Statistics of Sprout

Start at: 2019-02-11 23:42:56
End at: 2019-02-11 23:43:26
Local clock offset: 0.033 ms
Remote clock offset: -0.302 ms


# Below is generated by plot.py at 2019-02-12 03:44:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.77 Mbit/s
95th percentile per-packet one-way delay: 63.421 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.77 Mbit/s
95th percentile per-packet one-way delay: 63.421 ms
Loss rate: 0.00%
```

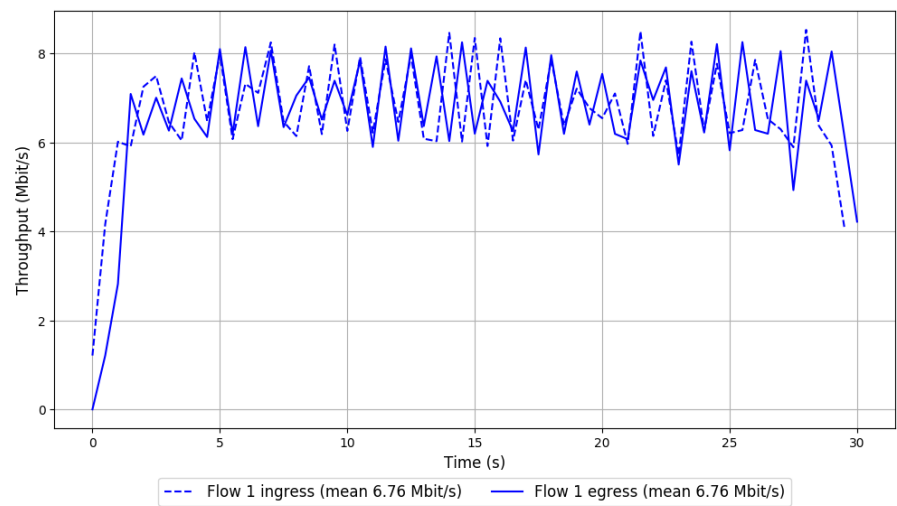Run 2: Report of Sprout — Data Link

```
Run 3: Statistics of Sprout

Start at: 2019-02-12 00:14:15
End at: 2019-02-12 00:14:45
Local clock offset: -0.138 ms
Remote clock offset: -0.134 ms


# Below is generated by plot.py at 2019-02-12 03:44:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.76 Mbit/s
95th percentile per-packet one-way delay: 63.634 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.76 Mbit/s
95th percentile per-packet one-way delay: 63.634 ms
Loss rate: 0.00%
```

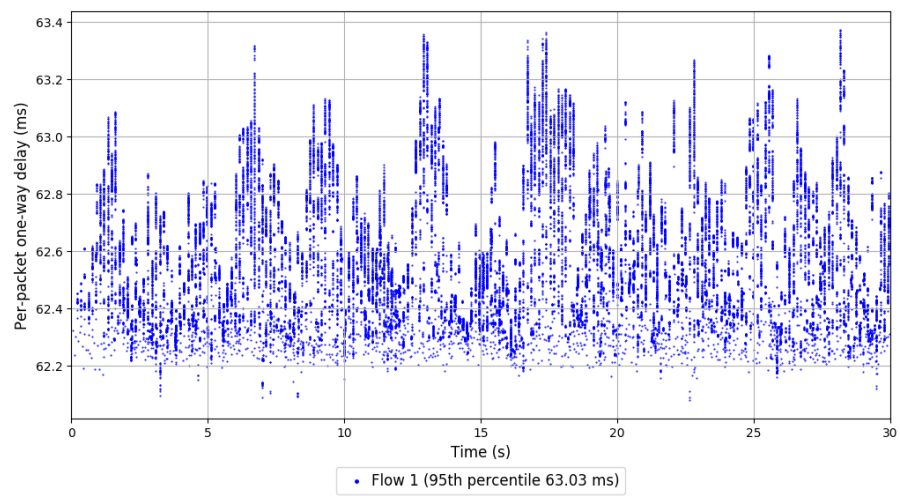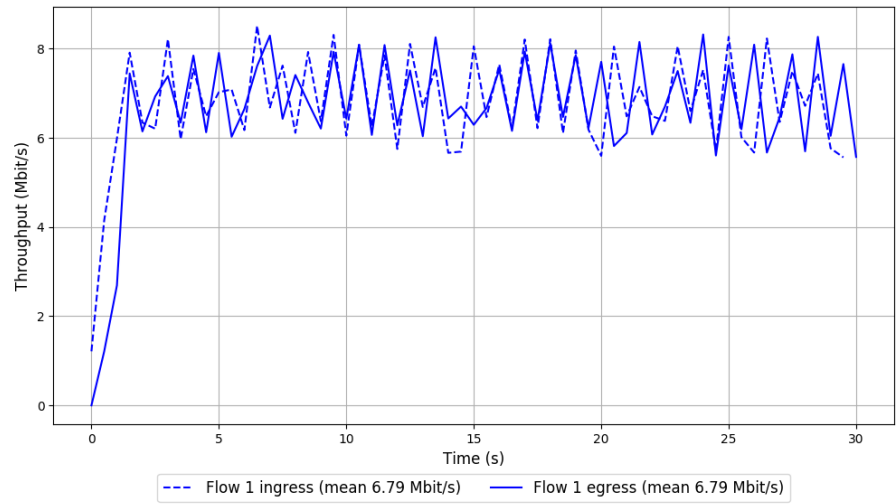Run 3: Report of Sprout — Data Link

```
Run 4: Statistics of Sprout

Start at: 2019-02-12 00:45:49
End at: 2019-02-12 00:46:19
Local clock offset: -0.102 ms
Remote clock offset: -0.723 ms


# Below is generated by plot.py at 2019-02-12 03:44:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.79 Mbit/s
95th percentile per-packet one-way delay: 63.035 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.79 Mbit/s
95th percentile per-packet one-way delay: 63.035 ms
Loss rate: 0.00%
```

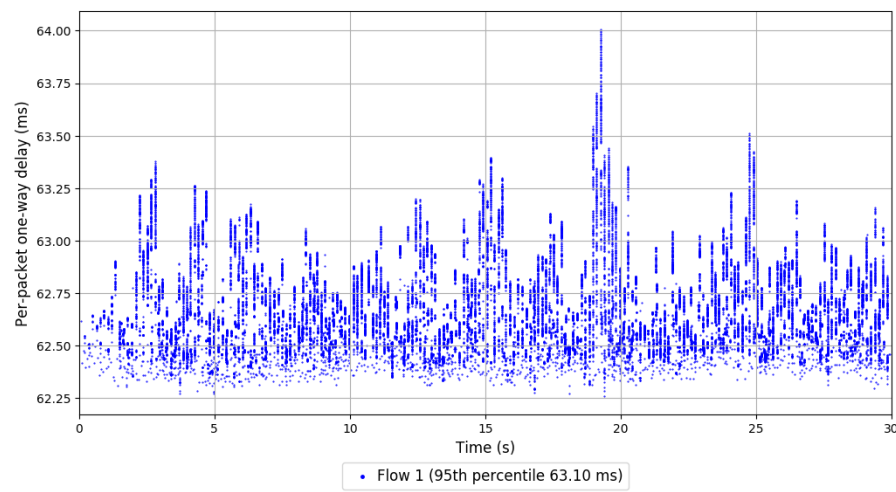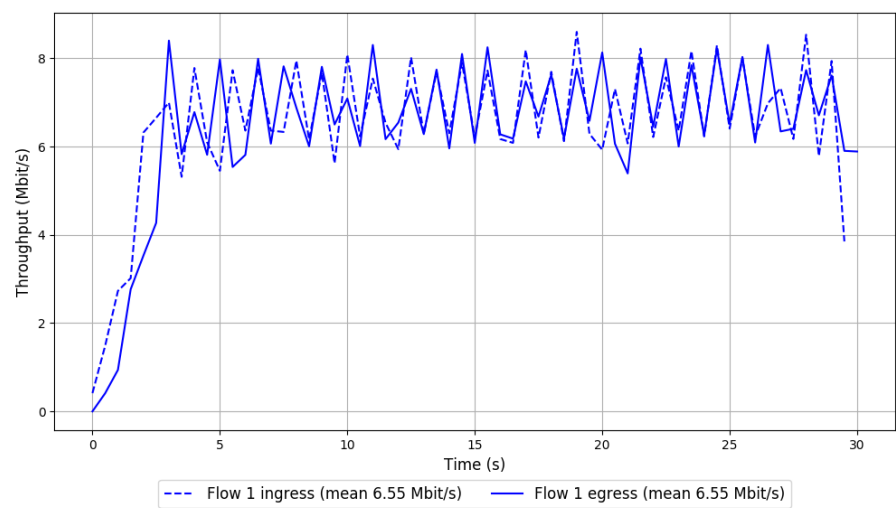Run 4: Report of Sprout — Data Link

```
Run 5: Statistics of Sprout

Start at: 2019-02-12 01:17:17
End at: 2019-02-12 01:17:47
Local clock offset: -0.123 ms
Remote clock offset: -0.874 ms


# Below is generated by plot.py at 2019-02-12 03:44:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.55 Mbit/s
95th percentile per-packet one-way delay: 63.102 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.55 Mbit/s
95th percentile per-packet one-way delay: 63.102 ms
Loss rate: 0.00%
```
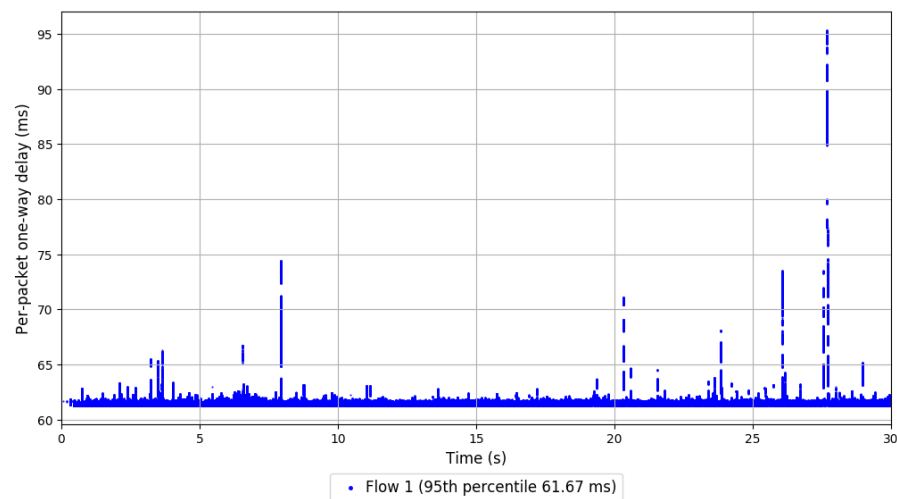
Run 5: Report of Sprout — Data Link

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

Start at: 2019-02-11 23:05:12
End at: 2019-02-11 23:05:42
Local clock offset: 0.015 ms
Remote clock offset: -1.489 ms


# Below is generated by plot.py at 2019-02-12 03:44:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 230.19 Mbit/s
95th percentile per-packet one-way delay: 61.671 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 230.19 Mbit/s
95th percentile per-packet one-way delay: 61.671 ms
Loss rate: 0.00%
```
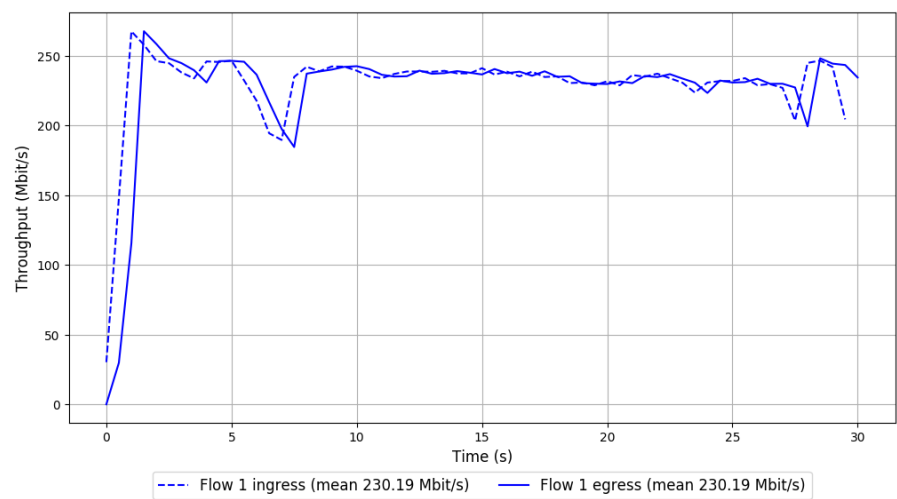
Run 1: Report of TaoVA-100x — Data Link

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

Start at: 2019-02-11 23:36:45
End at: 2019-02-11 23:37:15
Local clock offset: -0.002 ms
Remote clock offset: 0.424 ms


# Below is generated by plot.py at 2019-02-12 03:44:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 224.91 Mbit/s
95th percentile per-packet one-way delay: 64.188 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 224.91 Mbit/s
95th percentile per-packet one-way delay: 64.188 ms
Loss rate: 0.00%
```
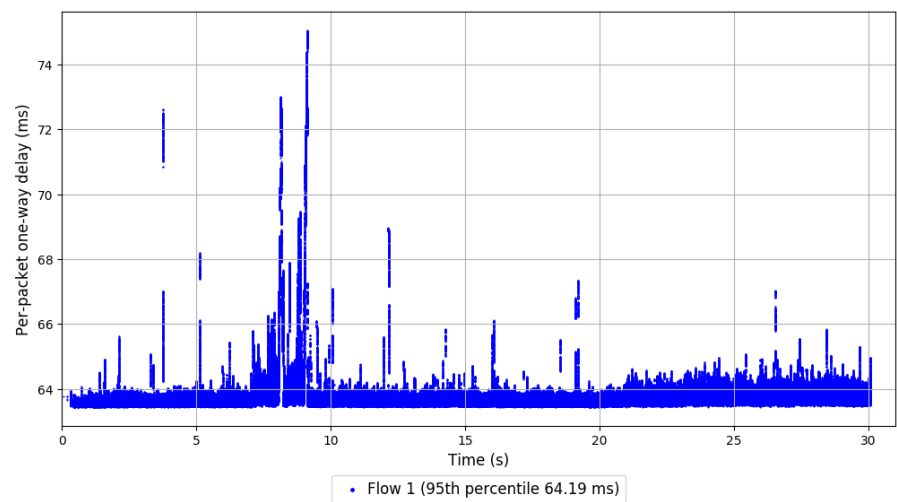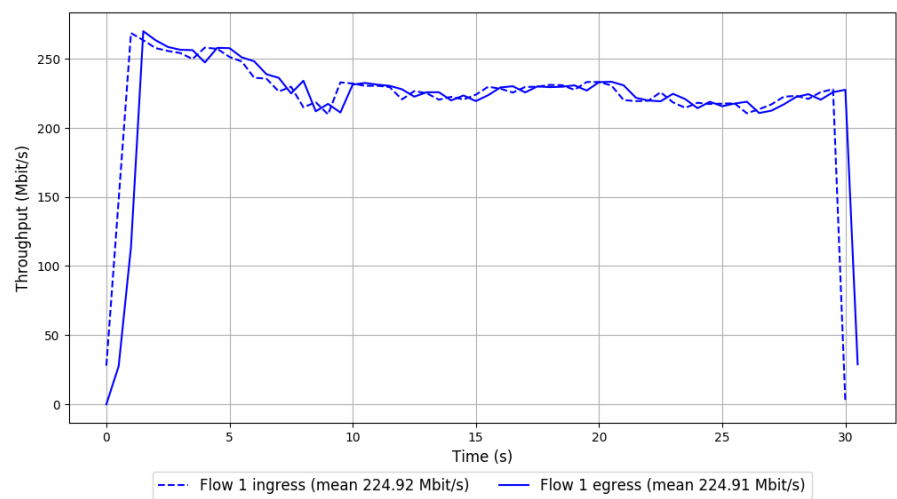
Run 2: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 224.92 Mbit/s)   Flow 1 egress (mean 224.91 Mbit/s)
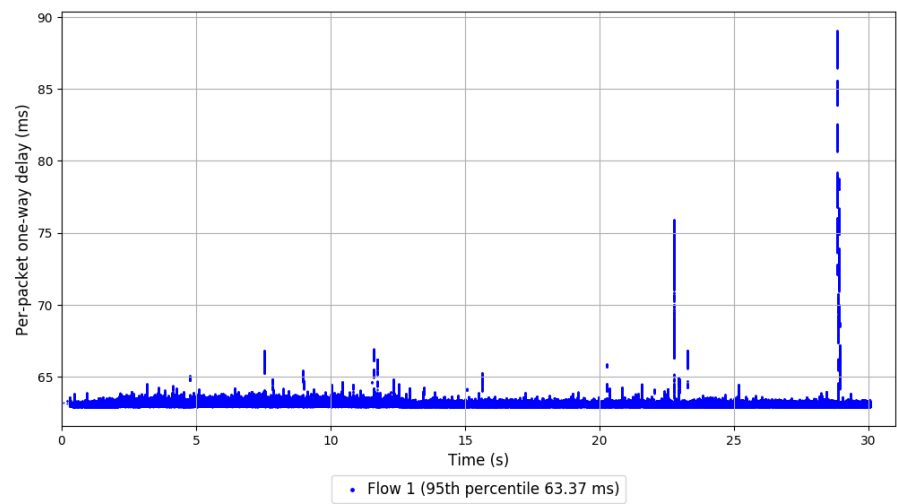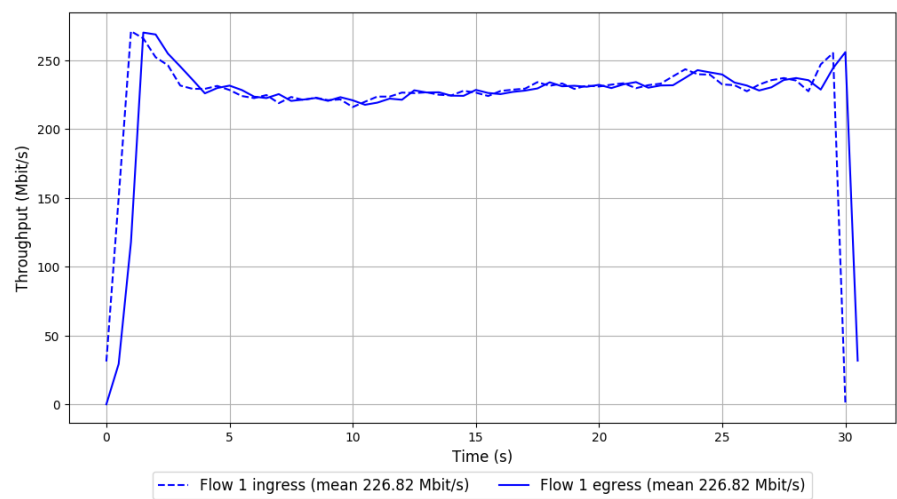

Flow 1 (95th percentile 64.19 ms)

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

Start at: 2019-02-12 00:08:09
End at: 2019-02-12 00:08:39
Local clock offset: -0.124 ms
Remote clock offset: -0.021 ms


# Below is generated by plot.py at 2019-02-12 03:44:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 226.82 Mbit/s
95th percentile per-packet one-way delay: 63.371 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 226.82 Mbit/s
95th percentile per-packet one-way delay: 63.371 ms
Loss rate: 0.00%
```
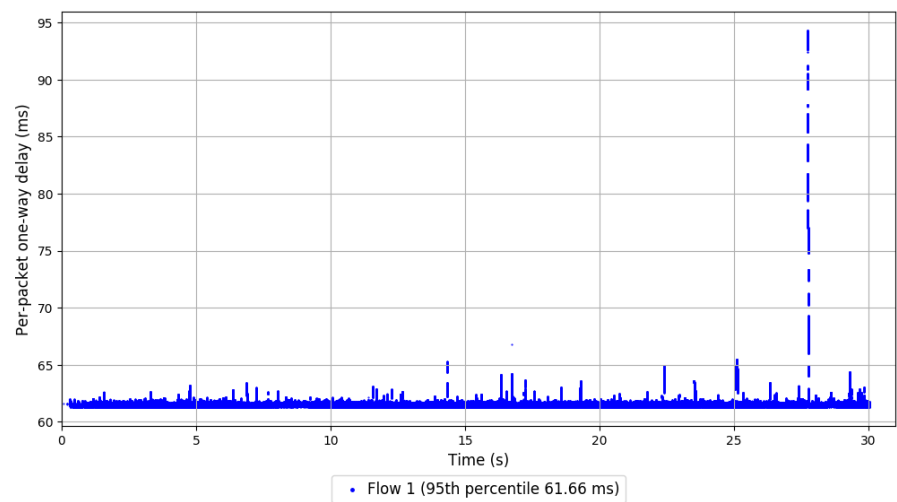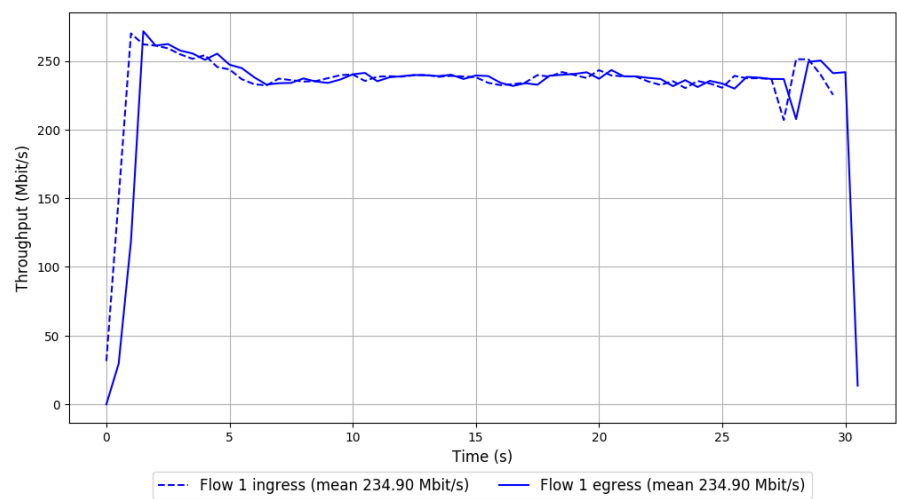
Run 3: Report of TaoVA-100x — Data Link

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

Start at: 2019-02-12 00:39:39
End at: 2019-02-12 00:40:09
Local clock offset: -0.065 ms
Remote clock offset: -1.451 ms


# Below is generated by plot.py at 2019-02-12 03:44:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 234.90 Mbit/s
95th percentile per-packet one-way delay: 61.656 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 234.90 Mbit/s
95th percentile per-packet one-way delay: 61.656 ms
Loss rate: 0.00%
```
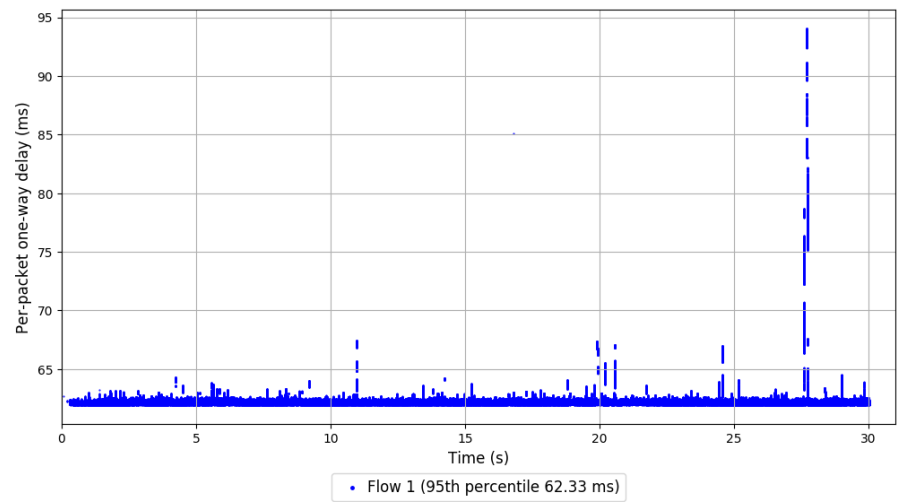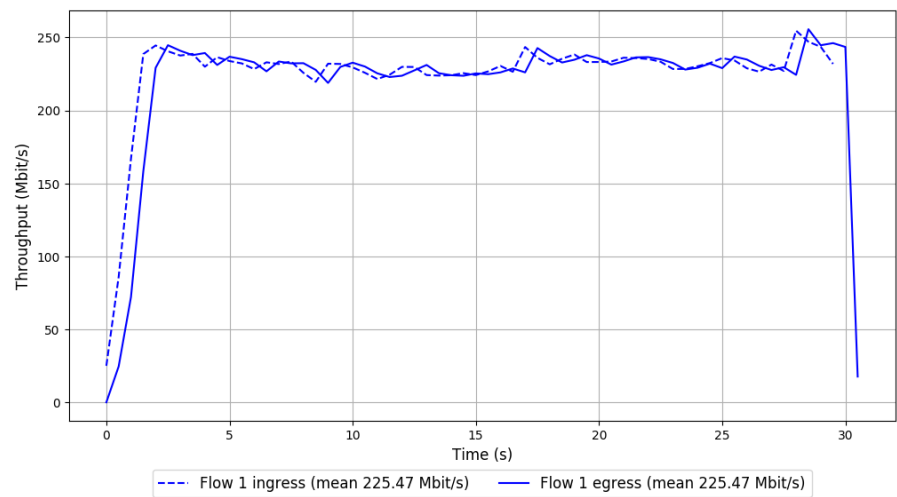
Run 4: Report of TaoVA-100x — Data Link

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

Start at: 2019-02-12 01:11:07
End at: 2019-02-12 01:11:38
Local clock offset: -0.104 ms
Remote clock offset: -0.895 ms


# Below is generated by plot.py at 2019-02-12 03:44:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 225.47 Mbit/s
95th percentile per-packet one-way delay: 62.330 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 225.47 Mbit/s
95th percentile per-packet one-way delay: 62.330 ms
Loss rate: 0.00%
```

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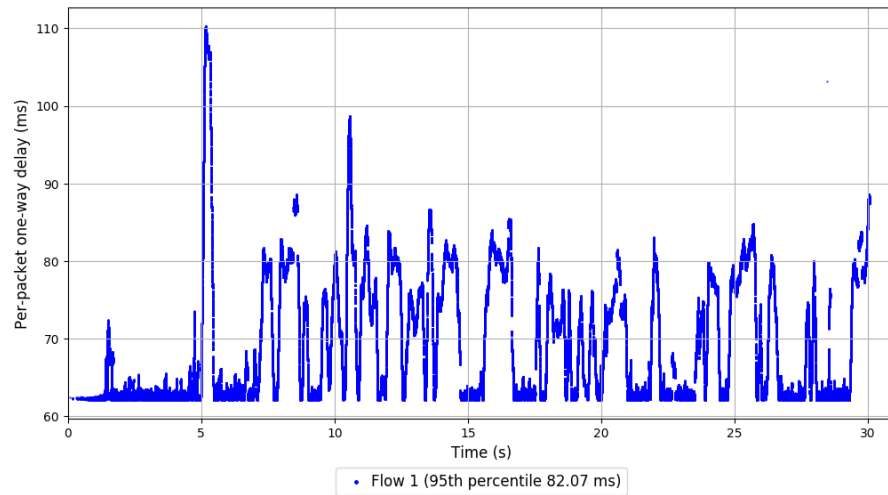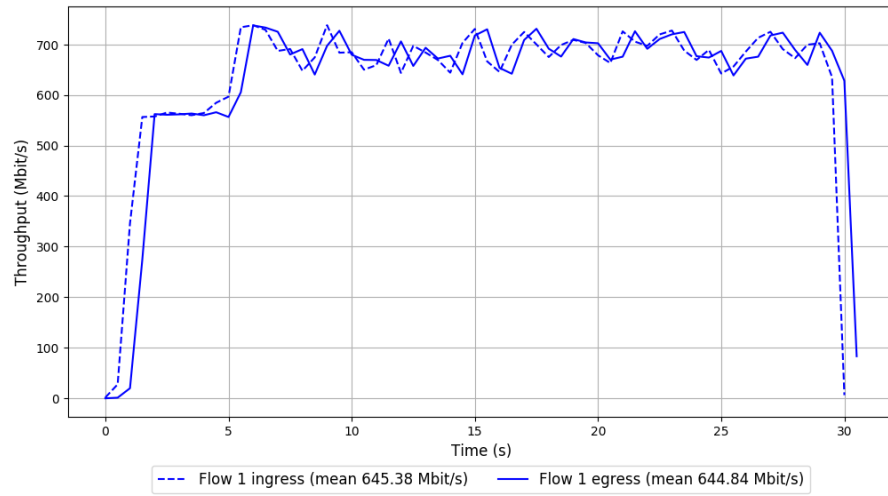

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```
Run 1: Statistics of TCP Vegas

Start at: 2019-02-11 23:14:02
End at: 2019-02-11 23:14:32
Local clock offset: -0.007 ms
Remote clock offset: -0.789 ms


# Below is generated by plot.py at 2019-02-12 03:48:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 644.84 Mbit/s
95th percentile per-packet one-way delay: 82.073 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 644.84 Mbit/s
95th percentile per-packet one-way delay: 82.073 ms
Loss rate: 0.08%
```
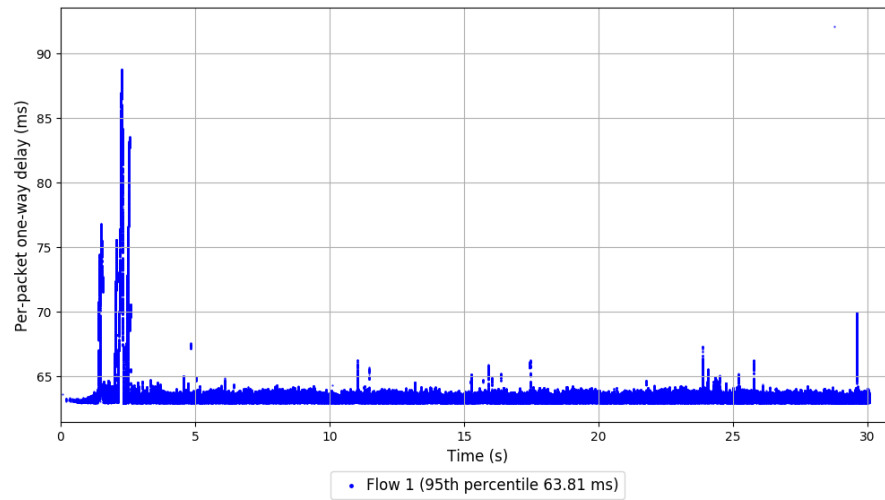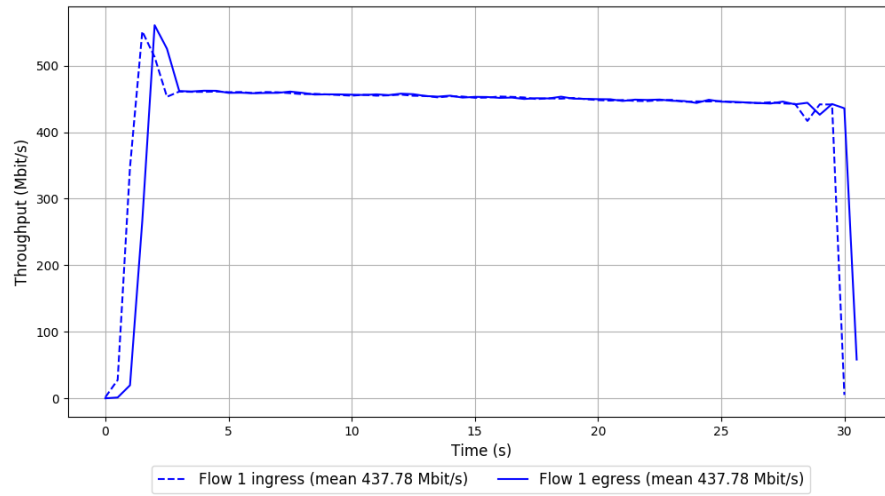
Run 1: Report of TCP Vegas — Data Link

```
Run 2: Statistics of TCP Vegas

Start at: 2019-02-11 23:45:39
End at: 2019-02-11 23:46:09
Local clock offset: -0.019 ms
Remote clock offset: -0.152 ms


# Below is generated by plot.py at 2019-02-12 03:53:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 437.78 Mbit/s
95th percentile per-packet one-way delay: 63.809 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 437.78 Mbit/s
95th percentile per-packet one-way delay: 63.809 ms
Loss rate: 0.00%
```
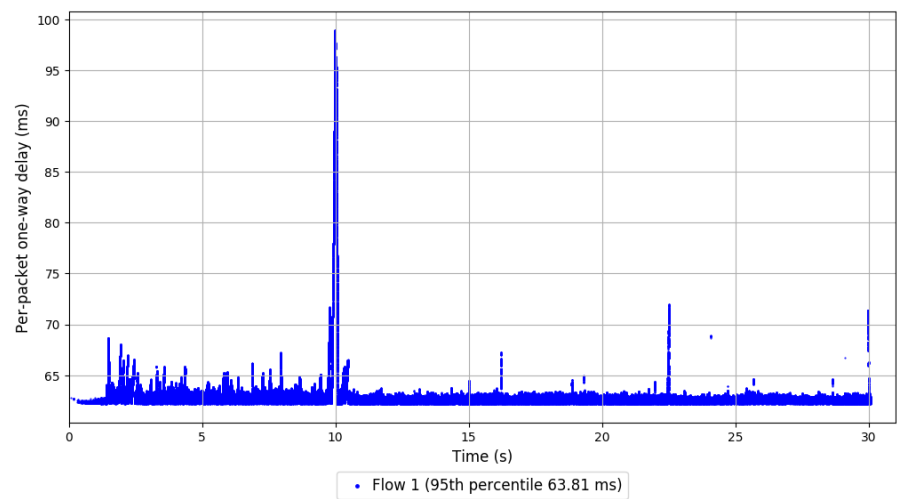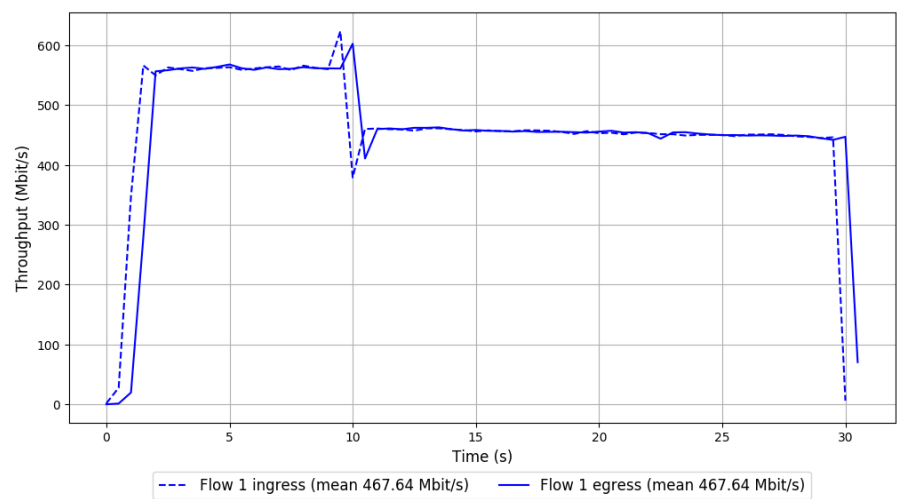
Run 2: Report of TCP Vegas — Data Link

Run 3: Statistics of TCP Vegas

Start at: 2019-02-12 00:16:59
End at: 2019-02-12 00:17:29
Local clock offset: -0.121 ms
Remote clock offset: -0.617 ms

Below is generated by plot.py at 2019-02-12 03:54:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 467.64 Mbit/s
95th percentile per-packet one-way delay: 63.811 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 467.64 Mbit/s
95th percentile per-packet one-way delay: 63.811 ms
Loss rate: 0.00%

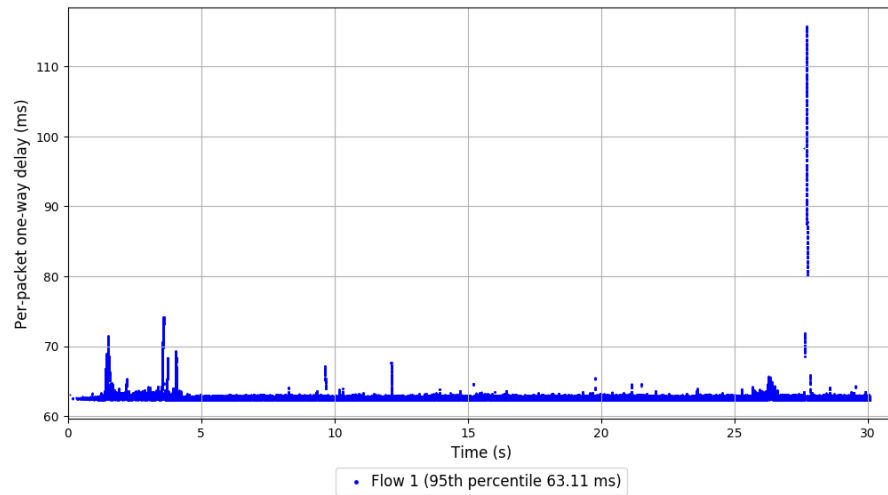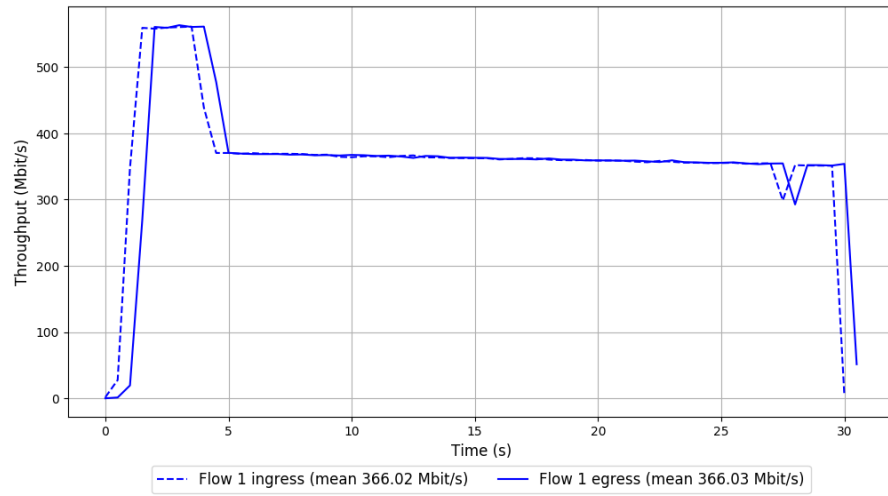Run 3: Report of TCP Vegas — Data Link

```
Run 4: Statistics of TCP Vegas

Start at: 2019-02-12 00:48:34
End at: 2019-02-12 00:49:05
Local clock offset: -0.094 ms
Remote clock offset: -0.803 ms


# Below is generated by plot.py at 2019-02-12 03:54:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 366.03 Mbit/s
95th percentile per-packet one-way delay: 63.109 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 366.03 Mbit/s
95th percentile per-packet one-way delay: 63.109 ms
Loss rate: 0.00%
```
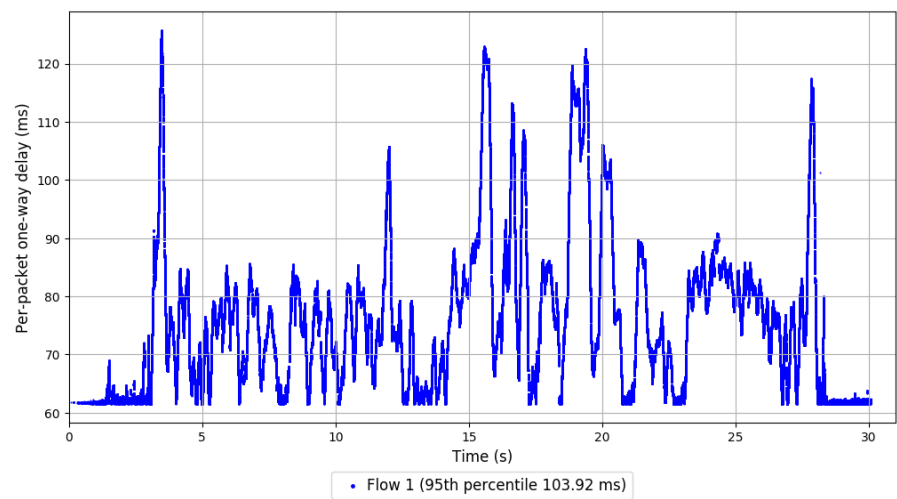
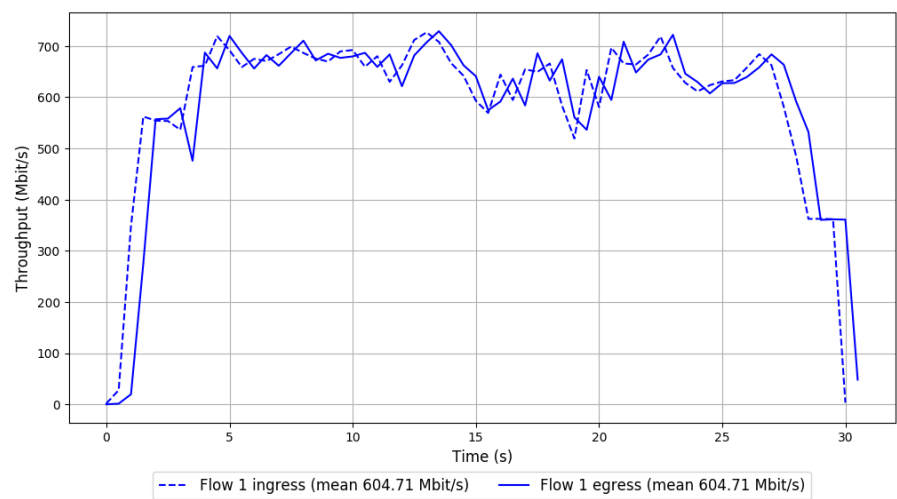Run 4: Report of TCP Vegas — Data Link

```
Run 5: Statistics of TCP Vegas

Start at: 2019-02-12 01:20:02
End at: 2019-02-12 01:20:32
Local clock offset: -0.083 ms
Remote clock offset: -1.487 ms


# Below is generated by plot.py at 2019-02-12 03:57:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 604.71 Mbit/s
95th percentile per-packet one-way delay: 103.916 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 604.71 Mbit/s
95th percentile per-packet one-way delay: 103.916 ms
Loss rate: 0.00%
```
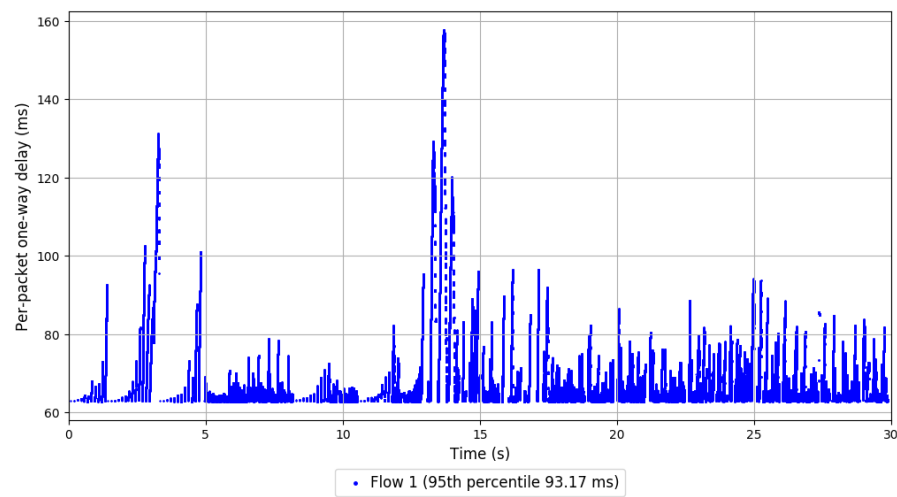
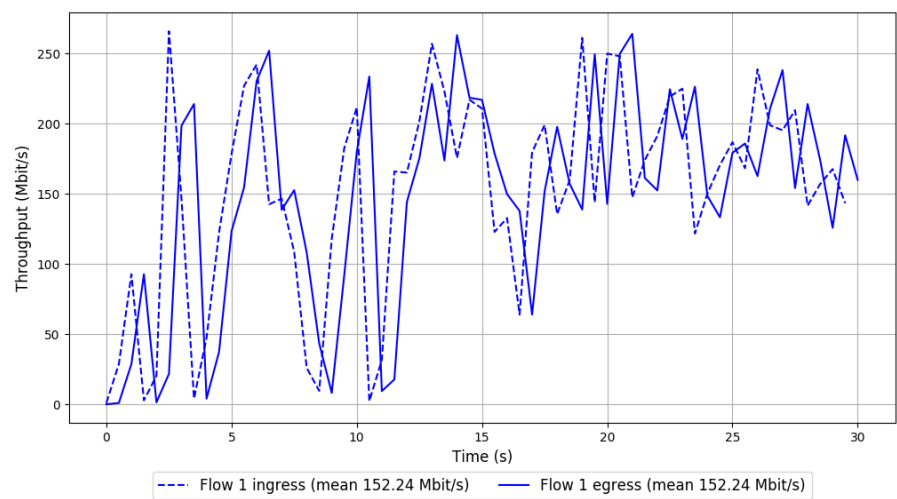Run 5: Report of TCP Vegas — Data Link

```
Run 1: Statistics of Verus

Start at: 2019-02-11 23:06:43
End at: 2019-02-11 23:07:13
Local clock offset: 0.02 ms
Remote clock offset: -0.115 ms


# Below is generated by plot.py at 2019-02-12 03:57:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 152.24 Mbit/s
95th percentile per-packet one-way delay: 93.167 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 152.24 Mbit/s
95th percentile per-packet one-way delay: 93.167 ms
Loss rate: 0.00%
```
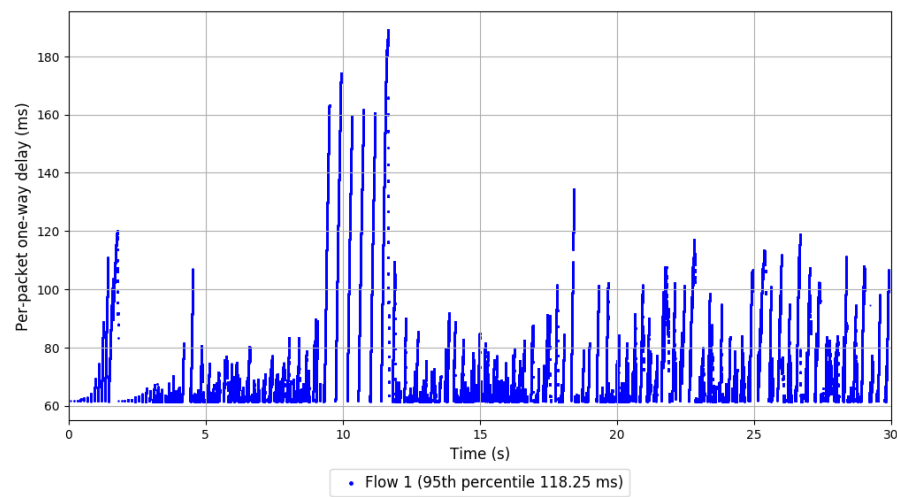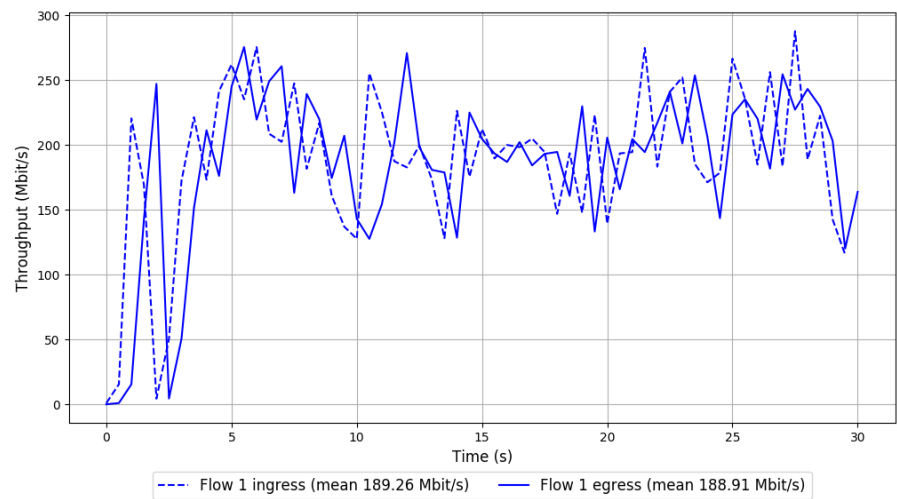
Run 1: Report of Verus — Data Link

```
Run 2: Statistics of Verus

Start at: 2019-02-11 23:38:13
End at: 2019-02-11 23:38:43
Local clock offset: -0.003 ms
Remote clock offset: -1.552 ms


# Below is generated by plot.py at 2019-02-12 03:57:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 188.91 Mbit/s
95th percentile per-packet one-way delay: 118.253 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 188.91 Mbit/s
95th percentile per-packet one-way delay: 118.253 ms
Loss rate: 0.05%
```

Run 2: Report of Verus — Data Link

```
Run 3: Statistics of Verus

Start at: 2019-02-12 00:09:38
End at: 2019-02-12 00:10:08
Local clock offset: -0.157 ms
Remote clock offset: 0.654 ms


# Below is generated by plot.py at 2019-02-12 03:57:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 125.84 Mbit/s
95th percentile per-packet one-way delay: 74.949 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 125.84 Mbit/s
95th percentile per-packet one-way delay: 74.949 ms
Loss rate: 0.01%
```
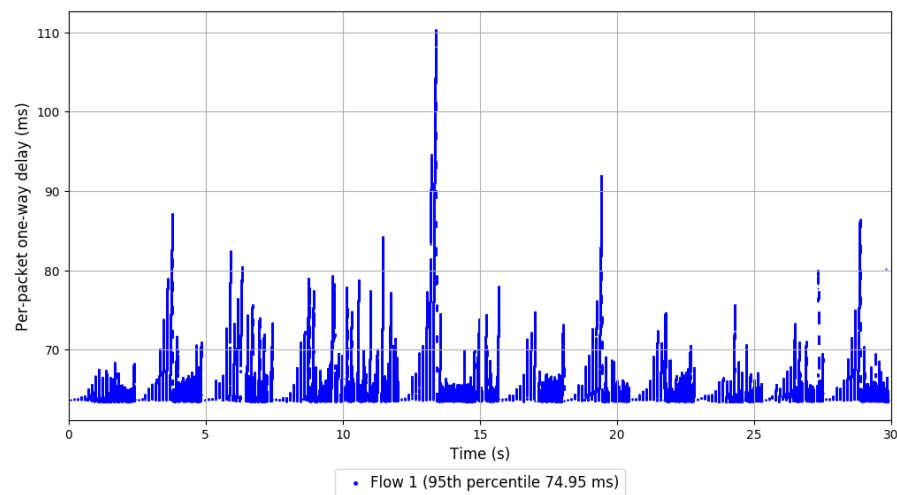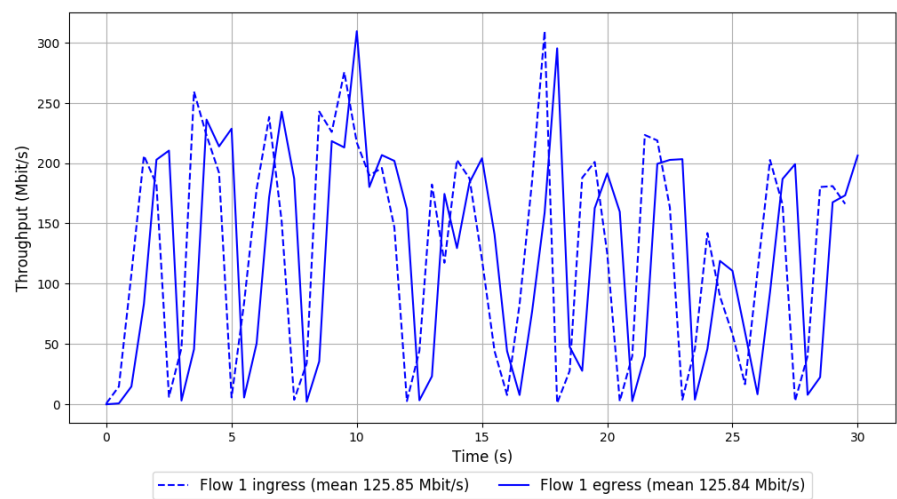
Run 3: Report of Verus — Data Link

```
Run 4: Statistics of Verus

Start at: 2019-02-12 00:41:08
End at: 2019-02-12 00:41:38
Local clock offset: -0.08 ms
Remote clock offset: 1.411 ms


# Below is generated by plot.py at 2019-02-12 03:57:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 189.65 Mbit/s
95th percentile per-packet one-way delay: 155.991 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 189.65 Mbit/s
95th percentile per-packet one-way delay: 155.991 ms
Loss rate: 0.01%
```
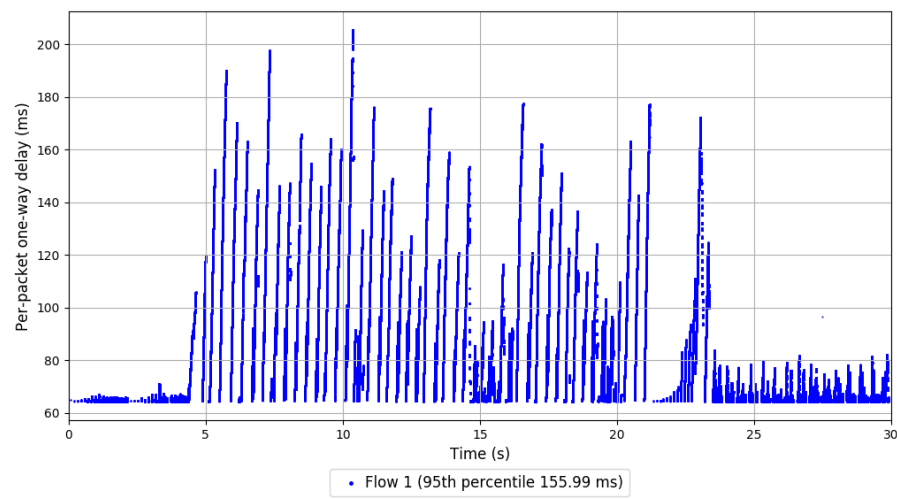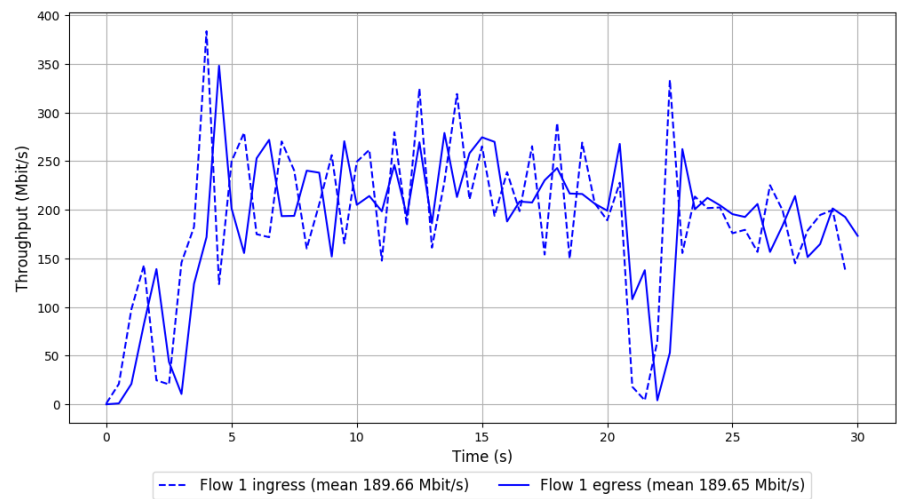
Run 4: Report of Verus — Data Link

```
Run 5: Statistics of Verus

Start at: 2019-02-12 01:12:36
End at: 2019-02-12 01:13:06
Local clock offset: -0.11 ms
Remote clock offset: 0.601 ms


# Below is generated by plot.py at 2019-02-12 03:57:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 184.90 Mbit/s
95th percentile per-packet one-way delay: 115.381 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 184.90 Mbit/s
95th percentile per-packet one-way delay: 115.381 ms
Loss rate: 0.24%
```
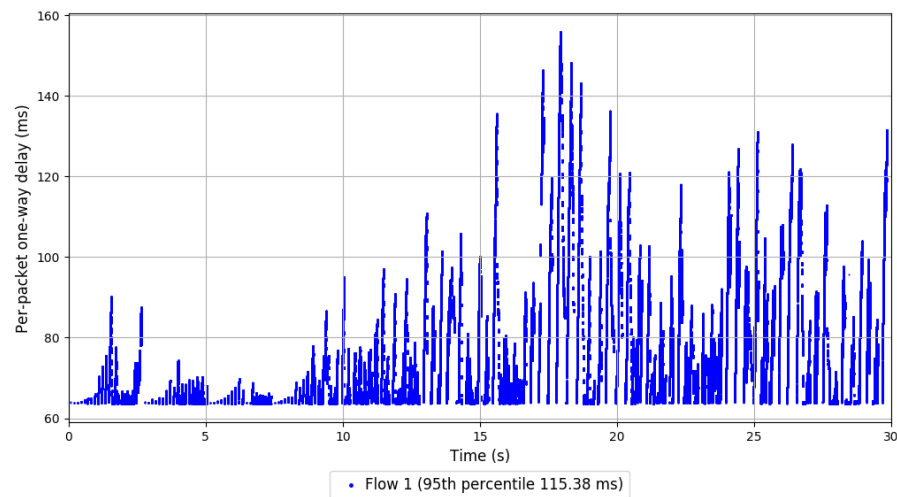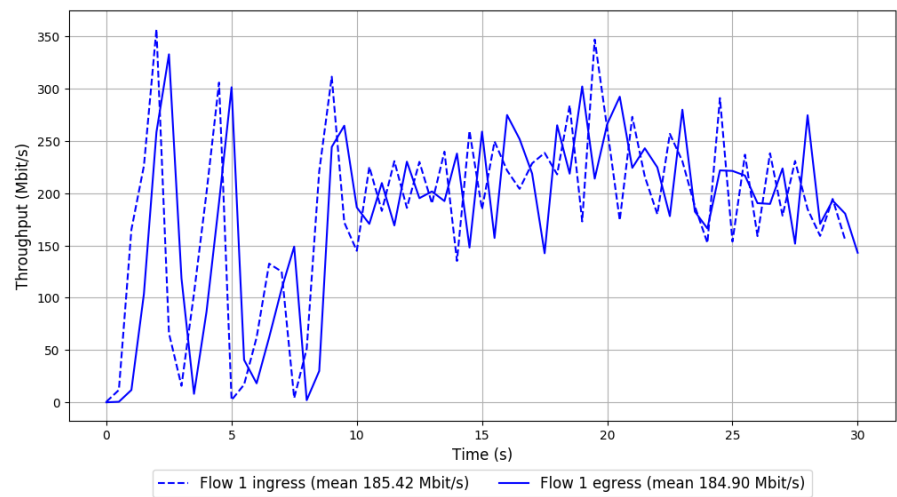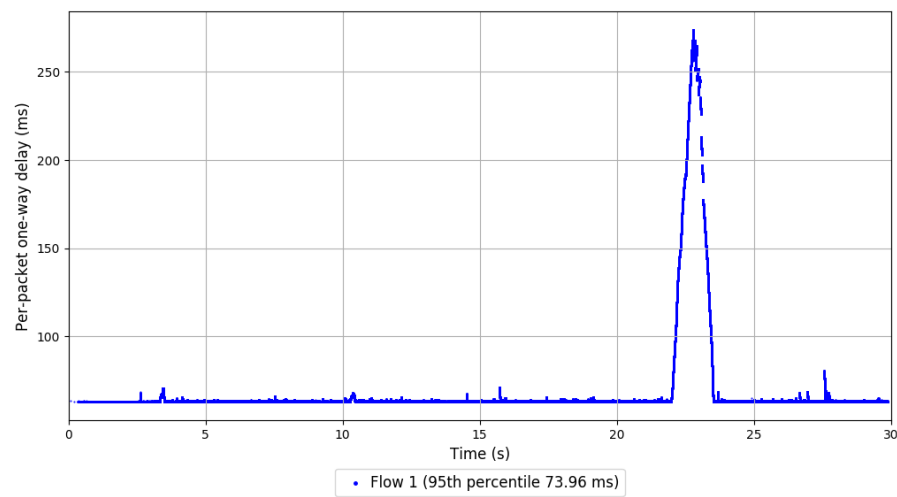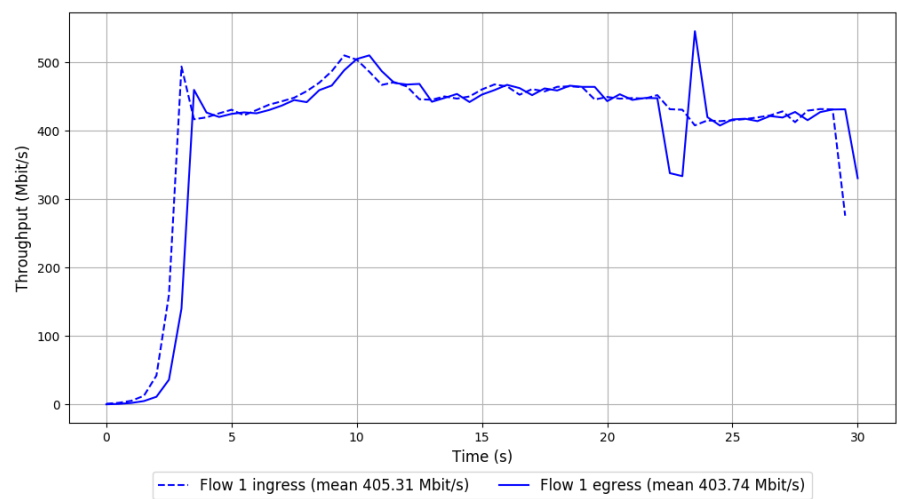
Run 5: Report of Verus — Data Link

```
Run 1: Statistics of PCC-Vivace

Start at: 2019-02-11 23:12:27
End at: 2019-02-11 23:12:57
Local clock offset: -0.0 ms
Remote clock offset: -0.125 ms


# Below is generated by plot.py at 2019-02-12 03:59:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 403.74 Mbit/s
95th percentile per-packet one-way delay: 73.960 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 403.74 Mbit/s
95th percentile per-packet one-way delay: 73.960 ms
Loss rate: 0.39%
```

Run 1: Report of PCC-Vivace — Data Link

```
Run 2: Statistics of PCC-Vivace

Start at: 2019-02-11 23:44:05
End at: 2019-02-11 23:44:35
Local clock offset: 0.002 ms
Remote clock offset: 0.241 ms


# Below is generated by plot.py at 2019-02-12 04:00:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 397.41 Mbit/s
95th percentile per-packet one-way delay: 64.813 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 397.41 Mbit/s
95th percentile per-packet one-way delay: 64.813 ms
Loss rate: 0.03%
```
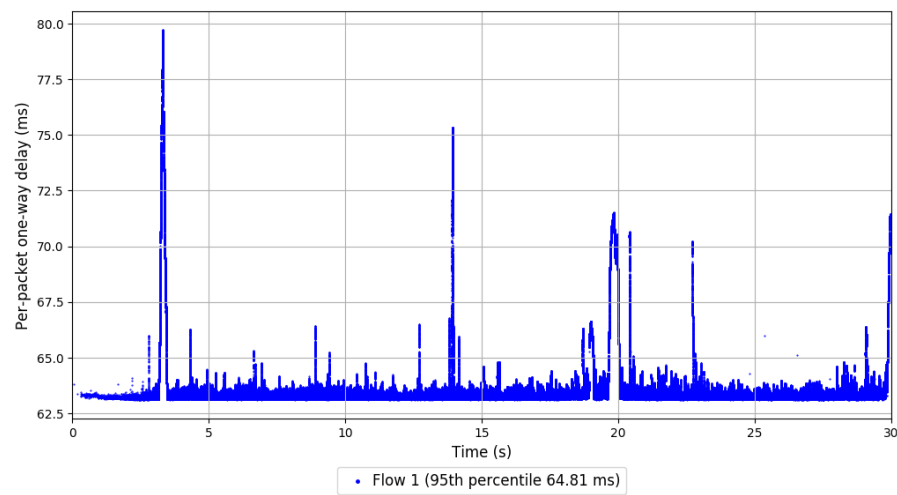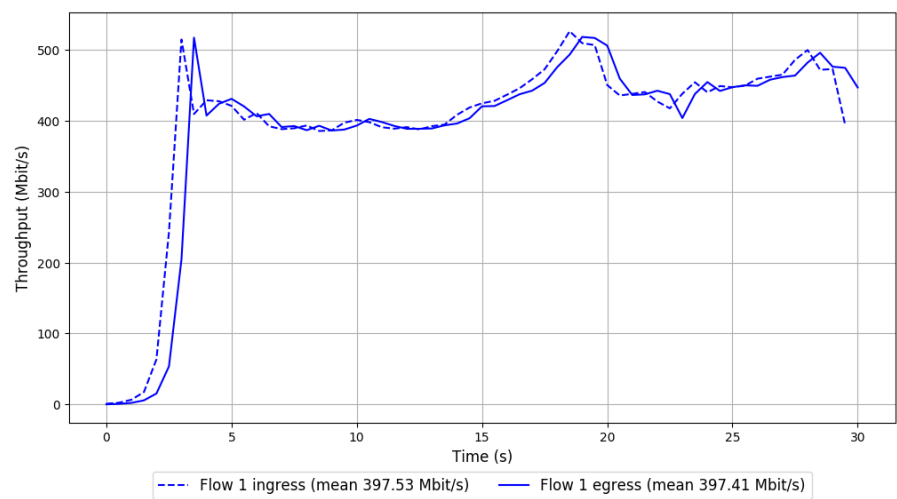
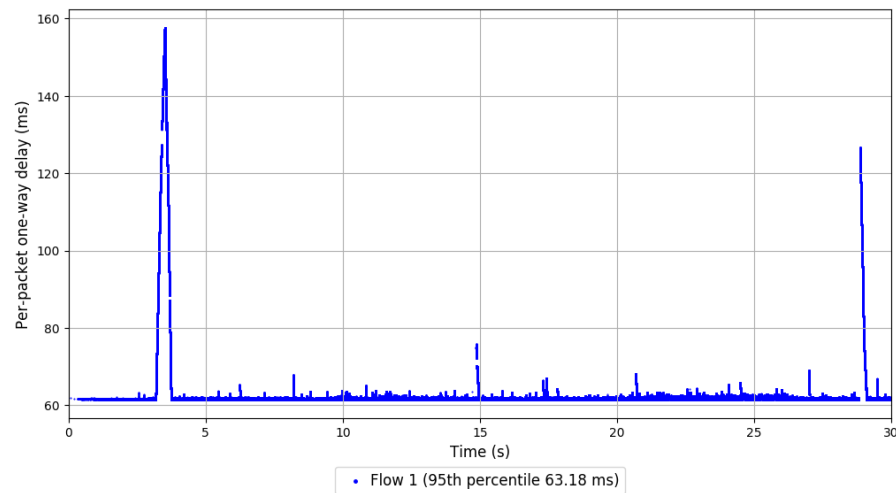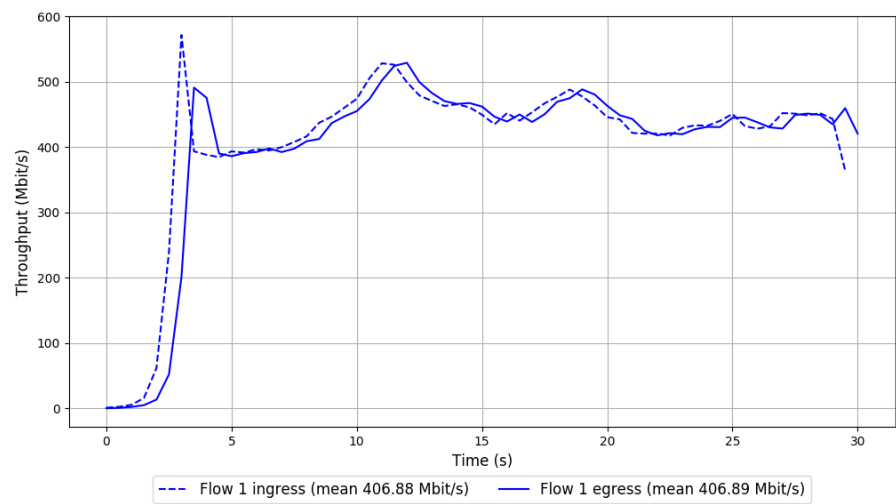Run 2: Report of PCC-Vivace — Data Link

```
Run 3: Statistics of PCC-Vivace

Start at: 2019-02-12 00:15:23
End at: 2019-02-12 00:15:54
Local clock offset: -0.121 ms
Remote clock offset: -1.437 ms


# Below is generated by plot.py at 2019-02-12 04:00:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 406.89 Mbit/s
95th percentile per-packet one-way delay: 63.182 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 406.89 Mbit/s
95th percentile per-packet one-way delay: 63.182 ms
Loss rate: 0.00%
```

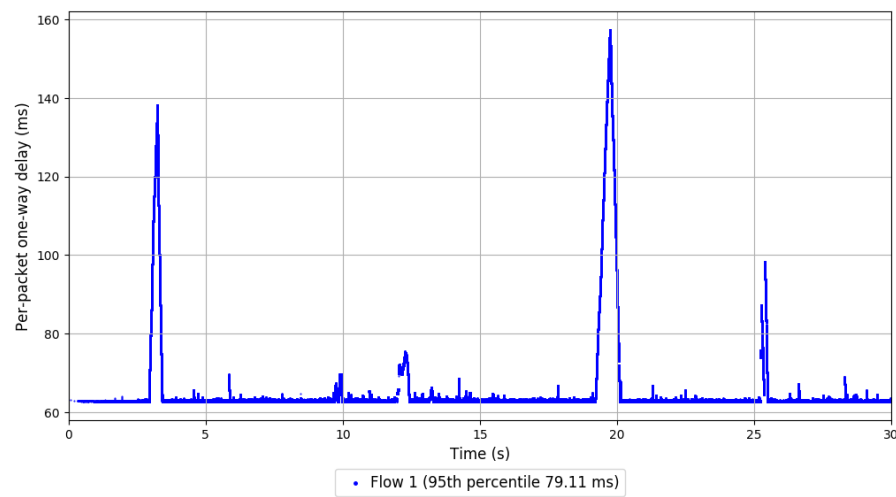Run 3: Report of PCC-Vivace — Data Link

```
Run 4: Statistics of PCC-Vivace

Start at: 2019-02-12 00:46:58
End at: 2019-02-12 00:47:28
Local clock offset: -0.084 ms
Remote clock offset: -0.071 ms


# Below is generated by plot.py at 2019-02-12 04:00:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 423.19 Mbit/s
95th percentile per-packet one-way delay: 79.112 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 423.19 Mbit/s
95th percentile per-packet one-way delay: 79.112 ms
Loss rate: 0.00%
```
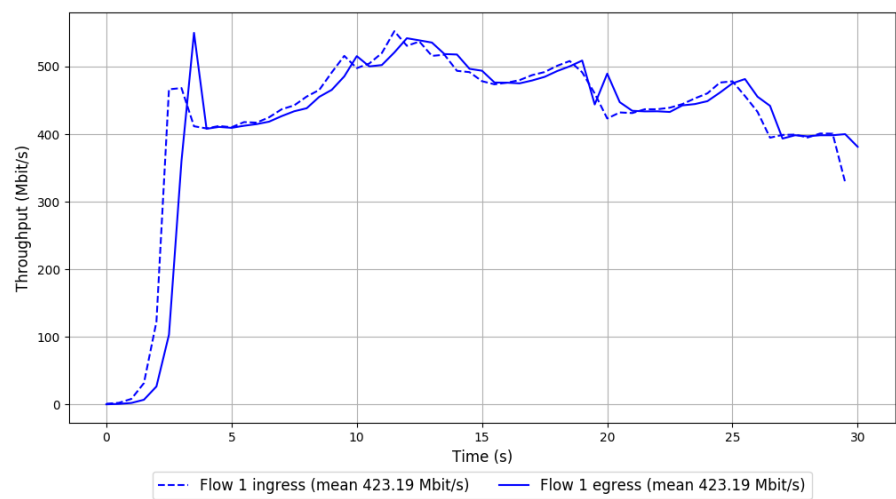
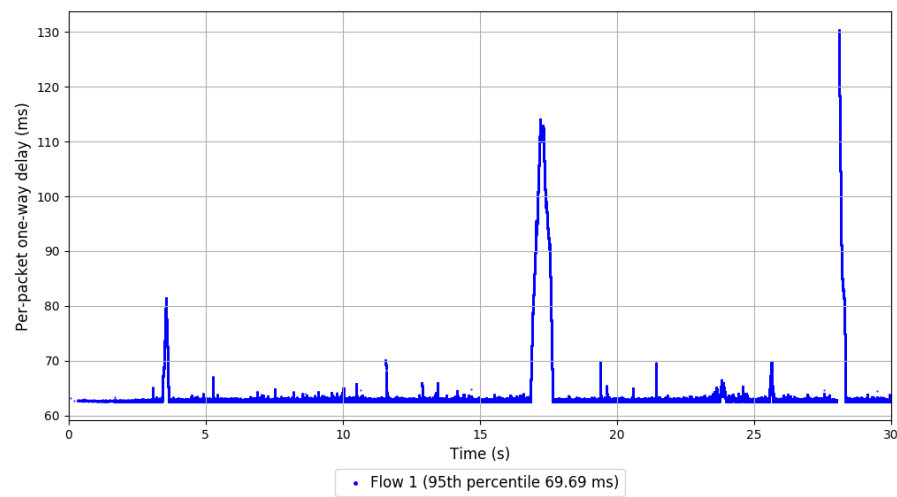## Run 4: Report of PCC-Vivace — Data Link

```
Run 5: Statistics of PCC-Vivace

Start at: 2019-02-12 01:18:26
End at: 2019-02-12 01:18:56
Local clock offset: -0.117 ms
Remote clock offset: -0.149 ms


# Below is generated by plot.py at 2019-02-12 04:00:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 406.58 Mbit/s
95th percentile per-packet one-way delay: 69.686 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 406.58 Mbit/s
95th percentile per-packet one-way delay: 69.686 ms
Loss rate: 0.00%
```
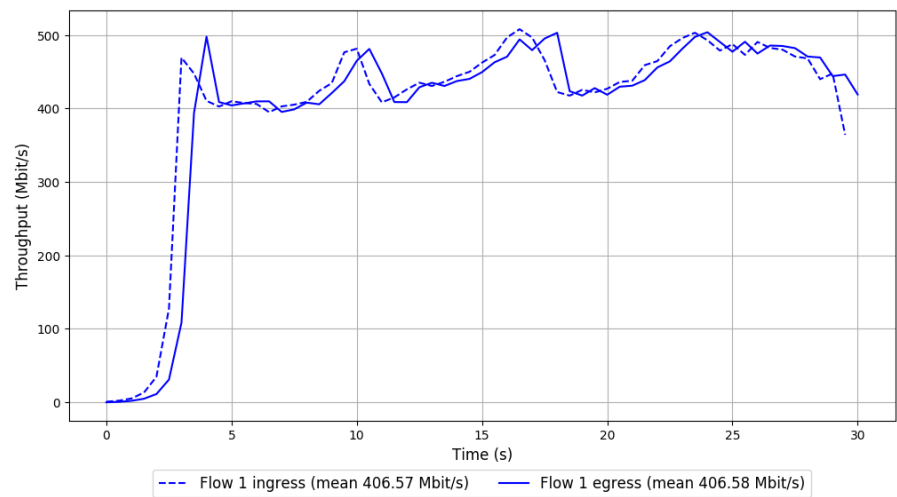
Run 5: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 406.57 Mbit/s) --- Flow 1 egress (mean 406.58 Mbit/s)

Flow 1 (95th percentile 69.69 ms)

```
Run 1: Statistics of WebRTC media

Start at: 2019-02-11 22:51:49
End at: 2019-02-11 22:52:19
Local clock offset: 0.121 ms
Remote clock offset: 0.518 ms
```
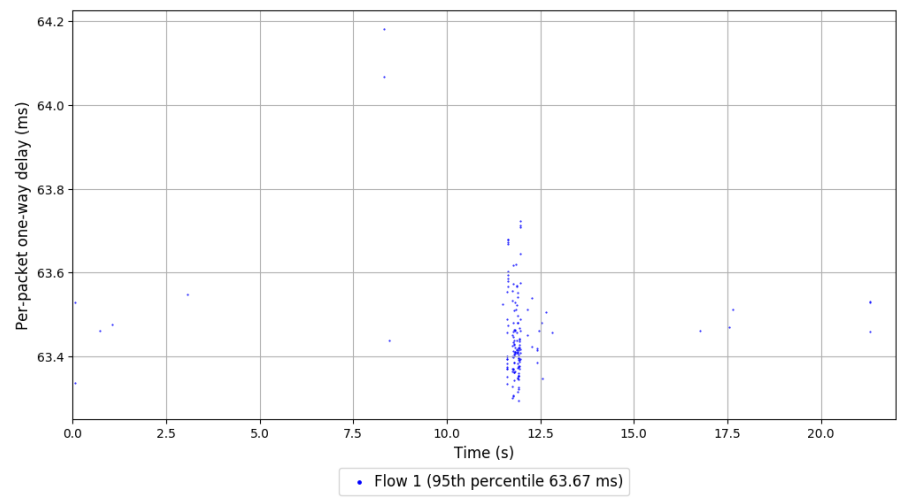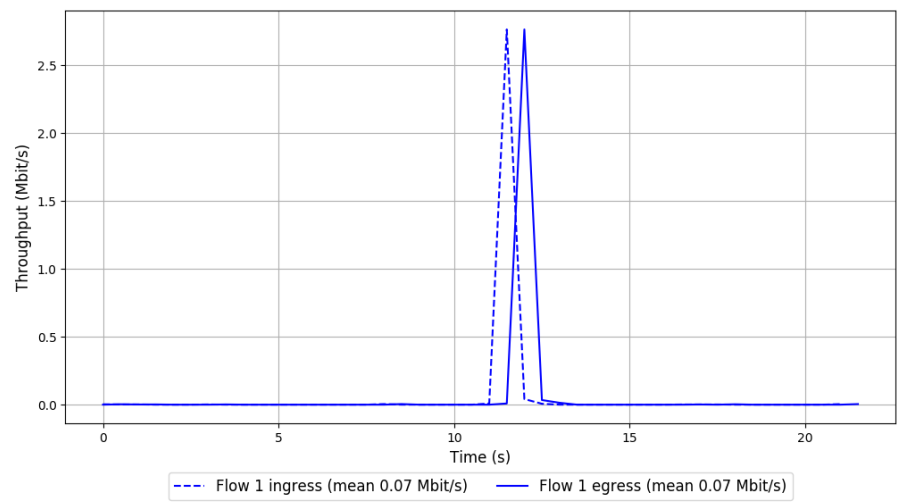
Run 1: Report of WebRTC media — Data Link

Flow 1 ingress (mean 0.07 Mbit/s)   Flow 1 egress (mean 0.07 Mbit/s)
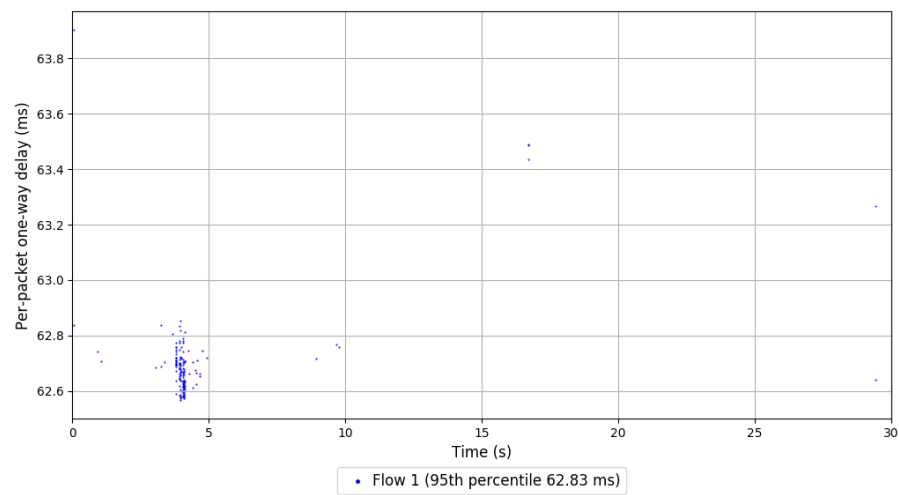
Flow 1 (95th percentile 63.67 ms)

```
Run 2: Statistics of WebRTC media

Start at: 2019-02-11 23:23:19
End at: 2019-02-11 23:23:49
Local clock offset: -0.015 ms
Remote clock offset: -0.374 ms


# Below is generated by plot.py at 2019-02-12 04:00:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 62.834 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 62.834 ms
Loss rate: 0.00%
```
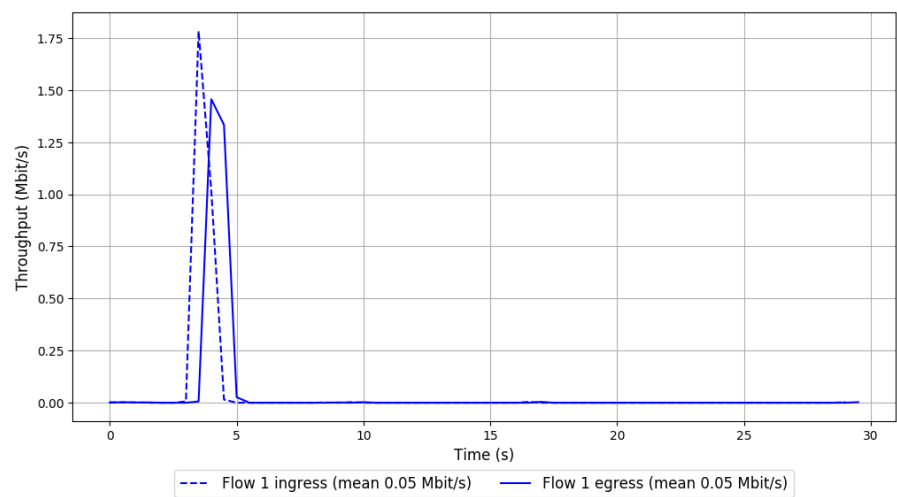
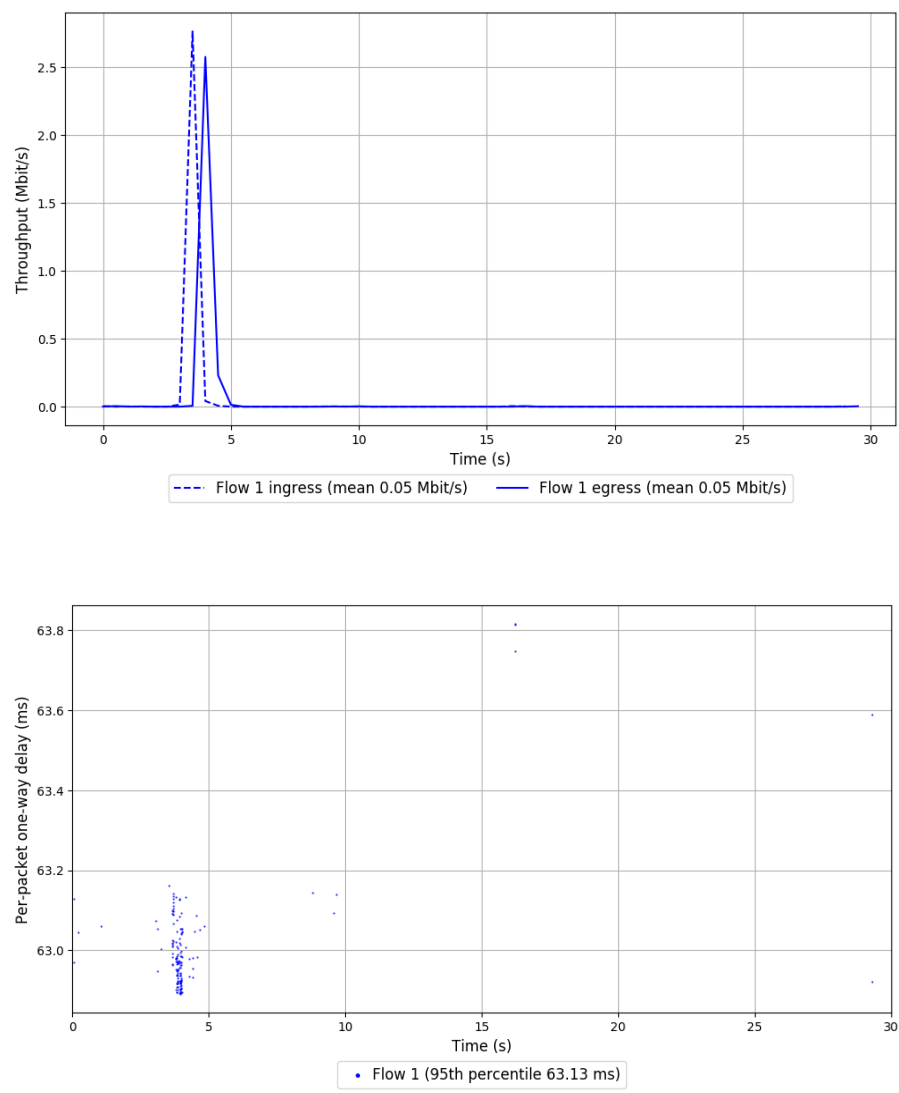Run 2: Report of WebRTC media — Data Link

```
Run 3: Statistics of WebRTC media

Start at: 2019-02-11 23:54:44
End at: 2019-02-11 23:55:14
Local clock offset: -0.053 ms
Remote clock offset: -0.052 ms


# Below is generated by plot.py at 2019-02-12 04:00:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.135 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.135 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

Flow 1 ingress (mean 0.05 Mbit/s)   Flow 1 egress (mean 0.05 Mbit/s)
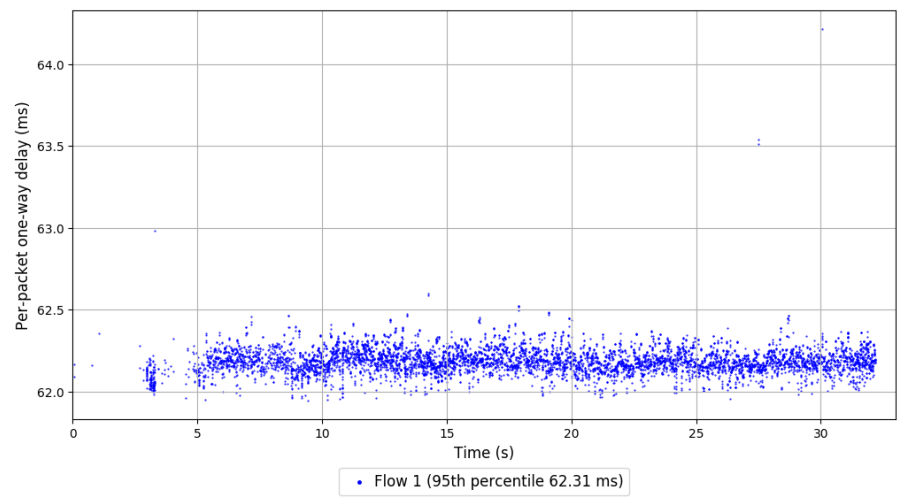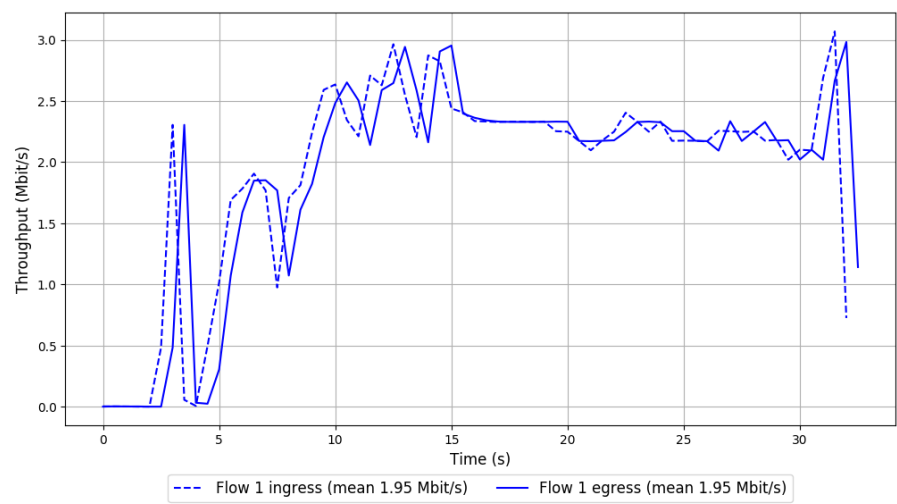

Flow 1 (95th percentile 63.13 ms)

```
Run 4: Statistics of WebRTC media

Start at: 2019-02-12 00:26:17
End at: 2019-02-12 00:26:47
Local clock offset: -0.053 ms
Remote clock offset: -0.797 ms


# Below is generated by plot.py at 2019-02-12 04:00:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 62.310 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 62.310 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link

Flow 1 ingress (mean 1.95 Mbit/s)   Flow 1 egress (mean 1.95 Mbit/s)

Flow 1 (95th percentile 62.31 ms)

```
Run 5: Statistics of WebRTC media

Start at: 2019-02-12 00:57:38
End at: 2019-02-12 00:58:08
Local clock offset: -0.103 ms
Remote clock offset: -0.102 ms


# Below is generated by plot.py at 2019-02-12 04:00:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 63.100 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 63.100 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link