Pantheon Report

Generated at 2019-03-19 12:23:15 (UTC).

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

Repeated the test of 21 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

NTP offsets were measured against nets.org.sg and have been applied to correct the timestamps in logs.
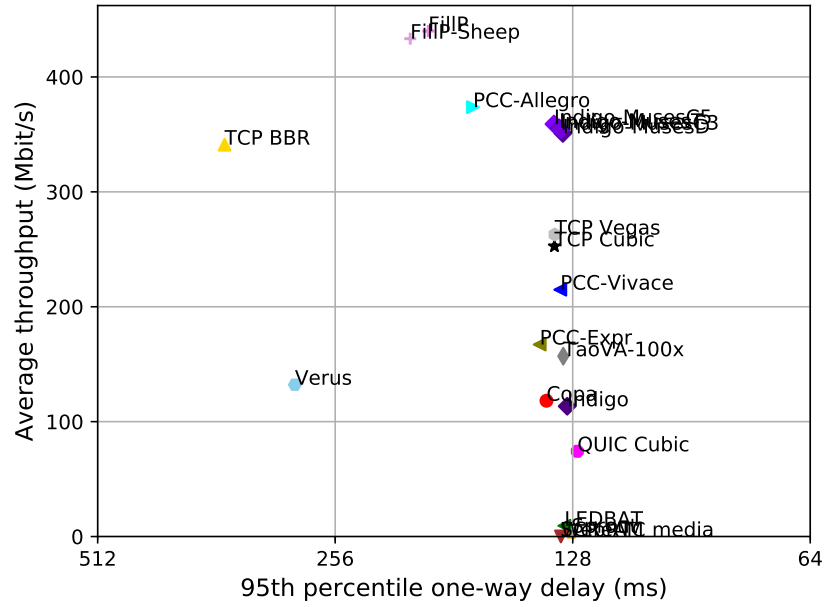
```
System info:
Linux 4.15.0-1031-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912

Git summary:
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfe58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
 M receiver/src/buffer.h
 M receiver/src/core.cpp
 M sender/src/buffer.h
 M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
 M src/ScreamClient
 M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
 M src/examples/cellsim.cc
 M src/examples/sproutbt2.cc
 M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
 M src/verus.hpp
 M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```
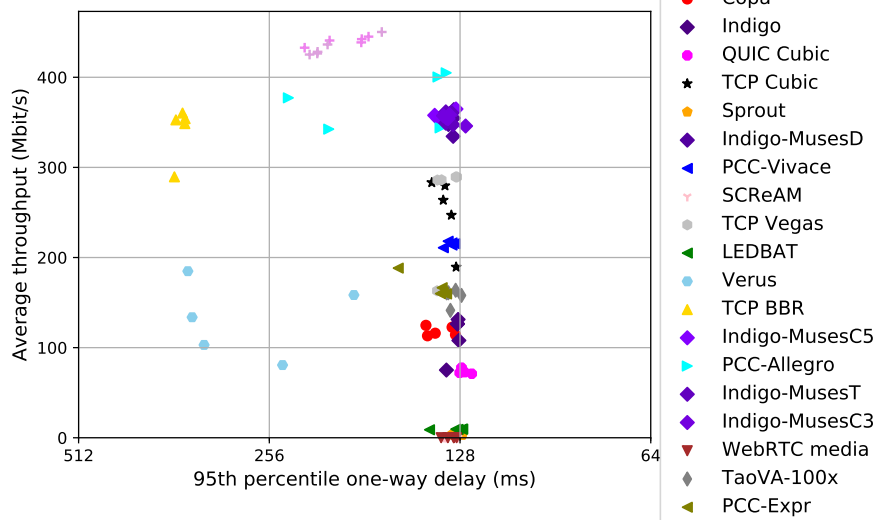
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

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

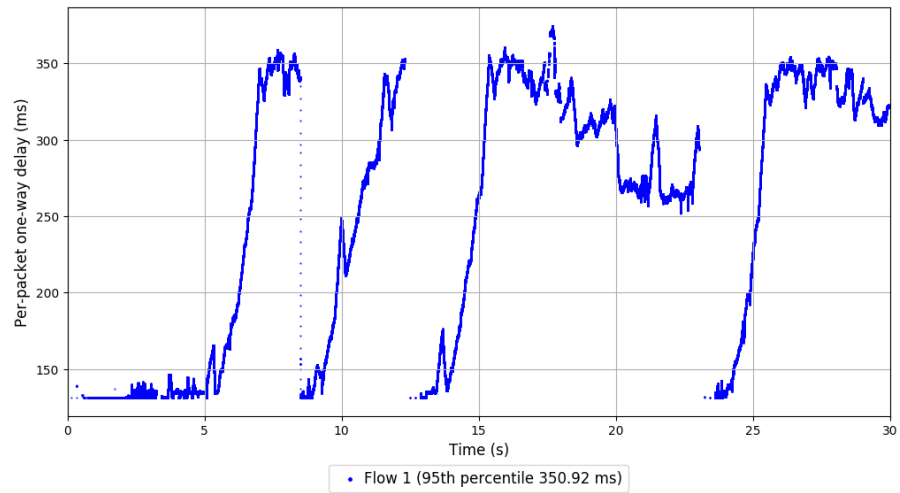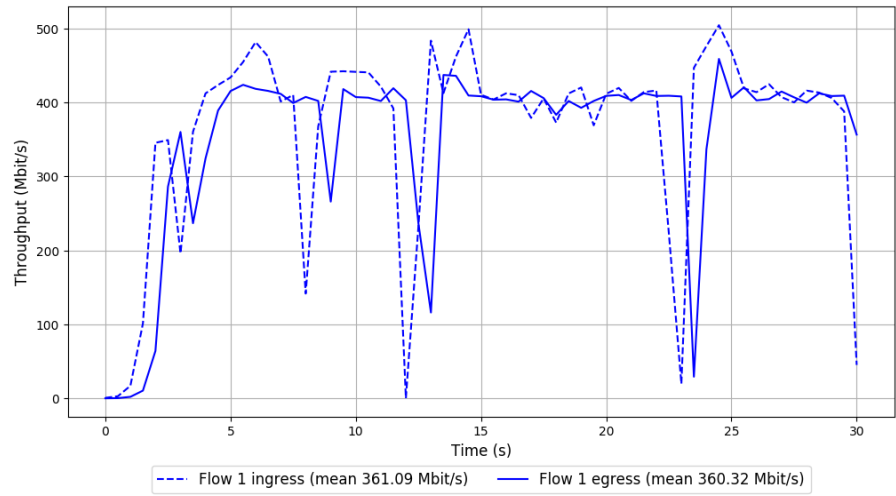test from Saudi Arabia to AWS India 2, 5 runs of 30s each per scheme

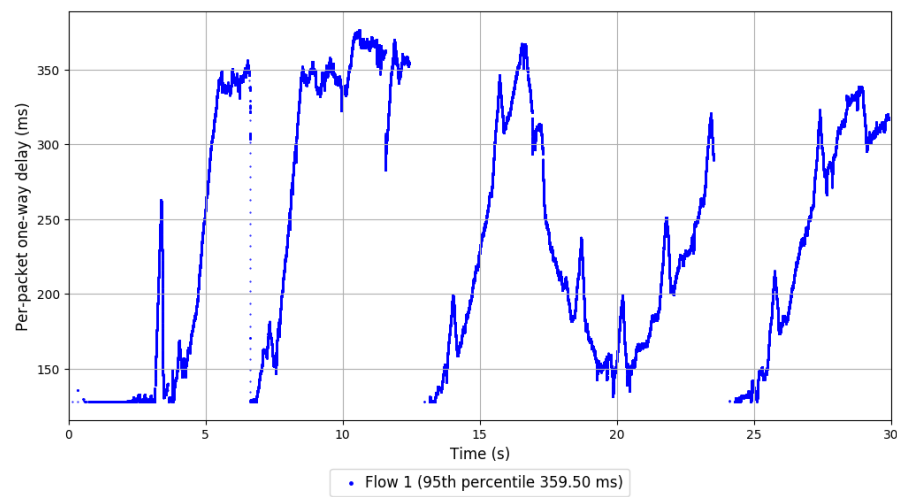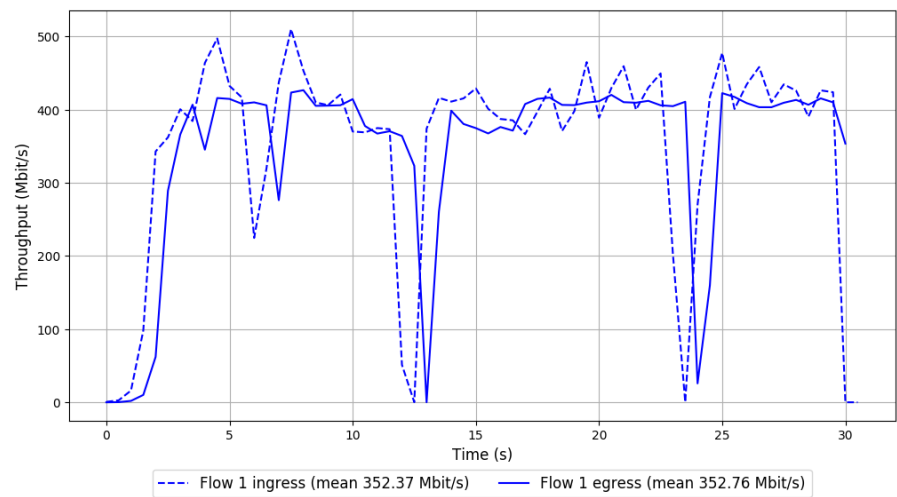| scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	341.07	353.50	2.46
Copa	5	118.19	138.19	0.71
TCP Cubic	5	252.61	135.00	0.72
FillP	5	439.95	195.10	1.60
FillP-Sheep	5	433.30	205.65	0.88
Indigo	5	113.41	130.07	0.66
Indigo-MusesC3	5	354.14	132.53	0.72
Indigo-MusesC5	5	359.01	135.20	0.76
Indigo-MusesD	5	350.90	131.73	0.73
Indigo-MusesT	5	355.67	133.15	0.71
LEDBAT	5	9.37	131.17	1.30
PCC-Allegro	5	373.75	171.21	0.65
PCC-Expr	5	167.14	140.97	0.78
QUIC Cubic	5	74.21	126.28	0.86
SCReAM	5	0.22	132.78	0.64
Sprout	5	3.28	128.53	0.92
TaoVA-100x	5	156.95	131.58	0.69
TCP Vegas	5	262.82	134.89	0.69
Verus	5	132.14	287.96	2.03
PCC-Vivace	5	214.85	132.74	0.69
WebRTC media	5	0.05	132.47	0.00

```
Run 1: Statistics of TCP BBR

Start at: 2019-03-19 08:43:18
End at: 2019-03-19 08:43:48
Local clock offset: 3.328 ms
Remote clock offset: -36.858 ms


# Below is generated by plot.py at 2019-03-19 11:51:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 360.32 Mbit/s
95th percentile per-packet one-way delay: 350.923 ms
Loss rate: 2.24%
-- Flow 1:
Average throughput: 360.32 Mbit/s
95th percentile per-packet one-way delay: 350.923 ms
Loss rate: 2.24%
```
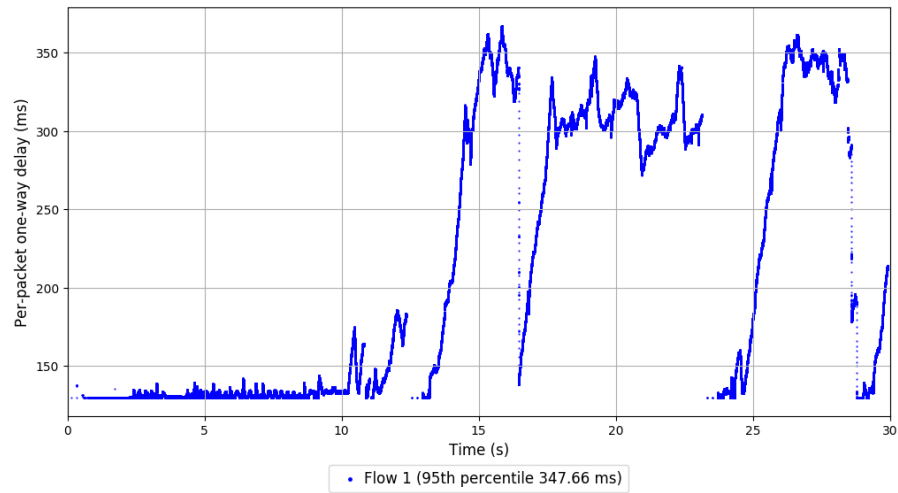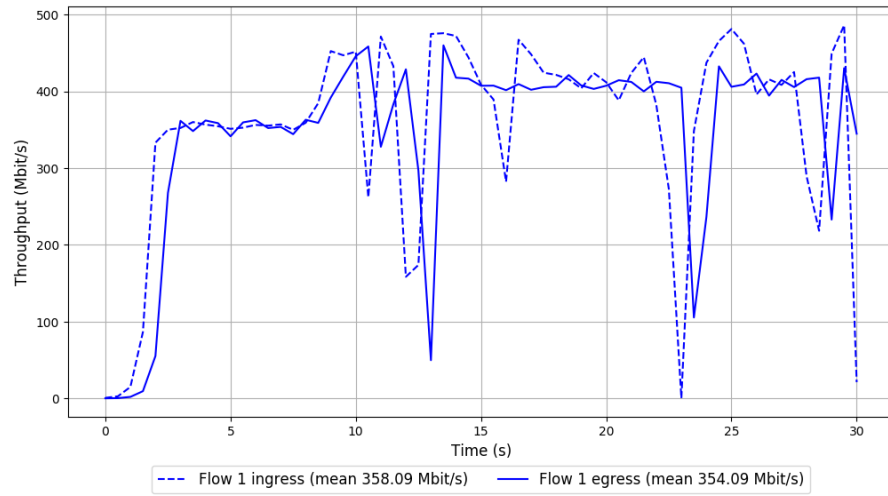
Run 1: Report of TCP BBR — Data Link

```
Run 2: Statistics of TCP BBR

Start at: 2019-03-19 09:28:36
End at: 2019-03-19 09:29:06
Local clock offset: 0.68 ms
Remote clock offset: -34.306 ms


# Below is generated by plot.py at 2019-03-19 11:51:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 352.76 Mbit/s
95th percentile per-packet one-way delay: 359.500 ms
Loss rate: 2.28%
-- Flow 1:
Average throughput: 352.76 Mbit/s
95th percentile per-packet one-way delay: 359.500 ms
Loss rate: 2.28%
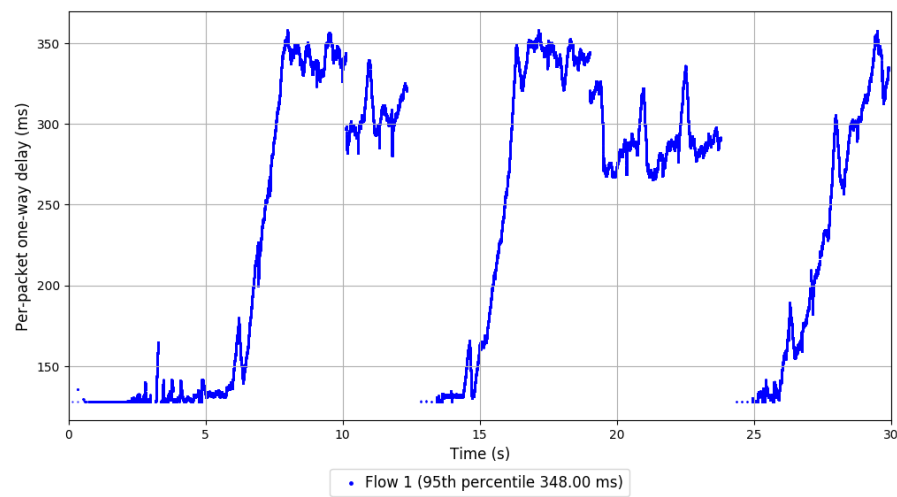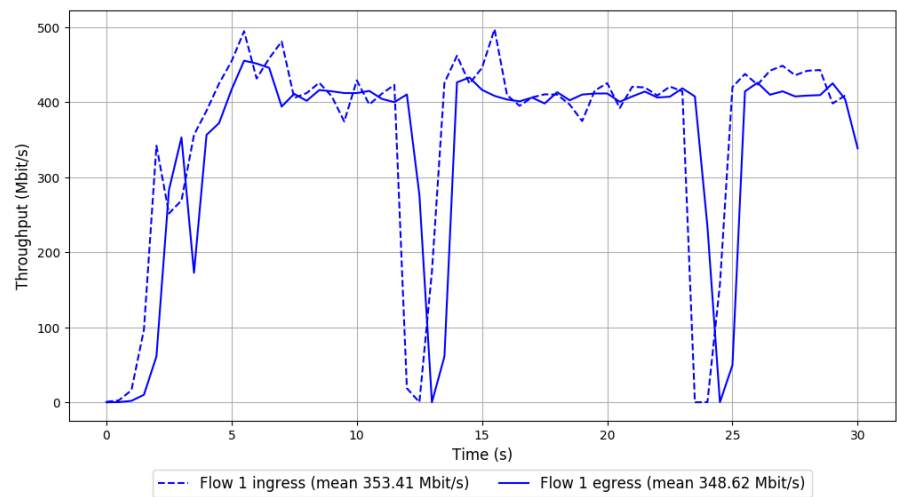```

Run 2: Report of TCP BBR — Data Link

```
Run 3: Statistics of TCP BBR

Start at: 2019-03-19 10:02:33
End at: 2019-03-19 10:03:03
Local clock offset: 0.827 ms
Remote clock offset: -33.893 ms

Below is generated by plot.py at 2019-03-19 11:51:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 354.09 Mbit/s
95th percentile per-packet one-way delay: 347.658 ms
Loss rate: 1.89%
-- Flow 1:
Average throughput: 354.09 Mbit/s
95th percentile per-packet one-way delay: 347.658 ms
Loss rate: 1.89%
```
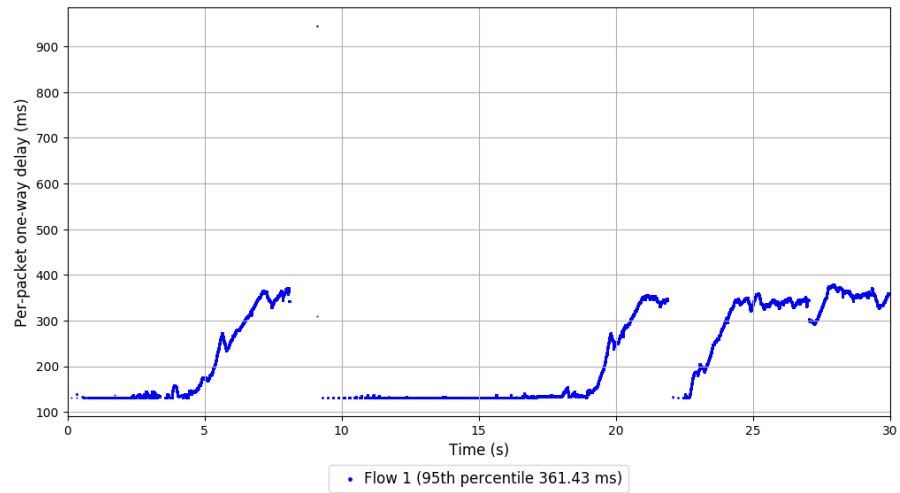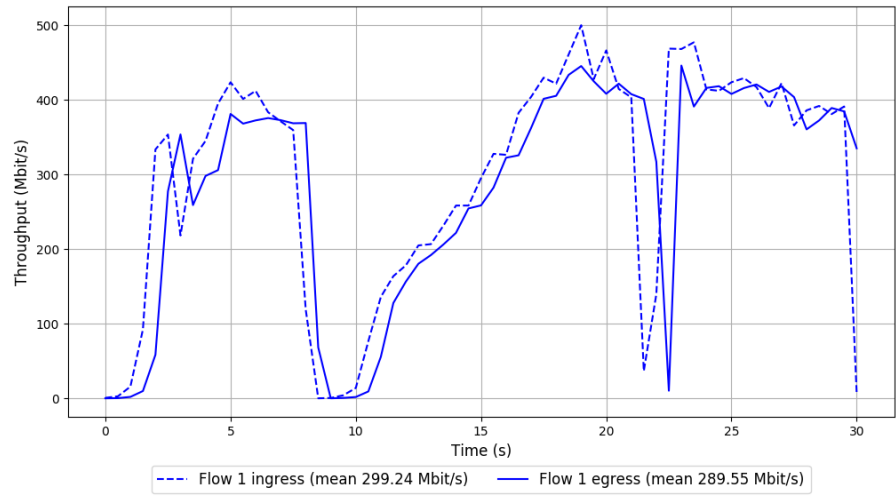
Run 3: Report of TCP BBR — Data Link



Flow 1 ingress (mean 358.09 Mbit/s)    Flow 1 egress (mean 354.09 Mbit/s)



Flow 1 (95th percentile 347.66 ms)

```
Run 4: Statistics of TCP BBR

Start at: 2019-03-19 10:36:29
End at: 2019-03-19 10:36:59
Local clock offset: 0.413 ms
Remote clock offset: -33.233 ms

Below is generated by plot.py at 2019-03-19 11:51:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 348.62 Mbit/s
95th percentile per-packet one-way delay: 347.995 ms
Loss rate: 2.00%
-- Flow 1:
Average throughput: 348.62 Mbit/s
95th percentile per-packet one-way delay: 347.995 ms
Loss rate: 2.00%
```
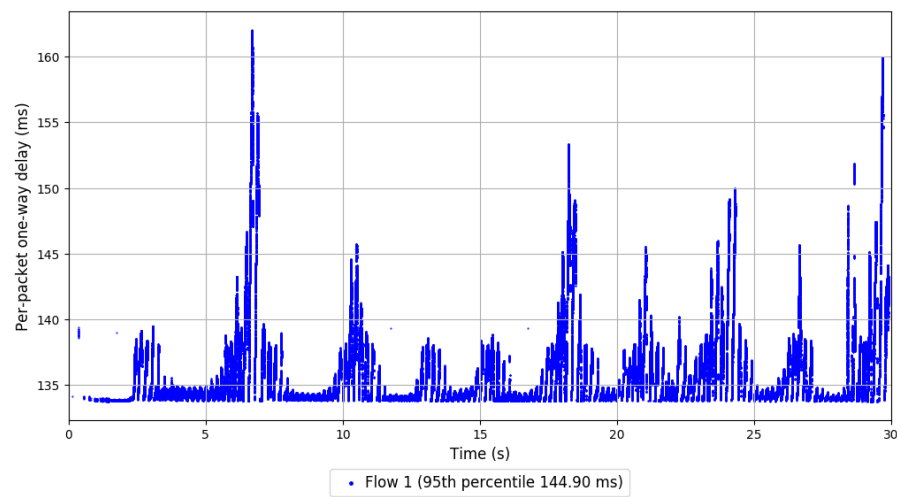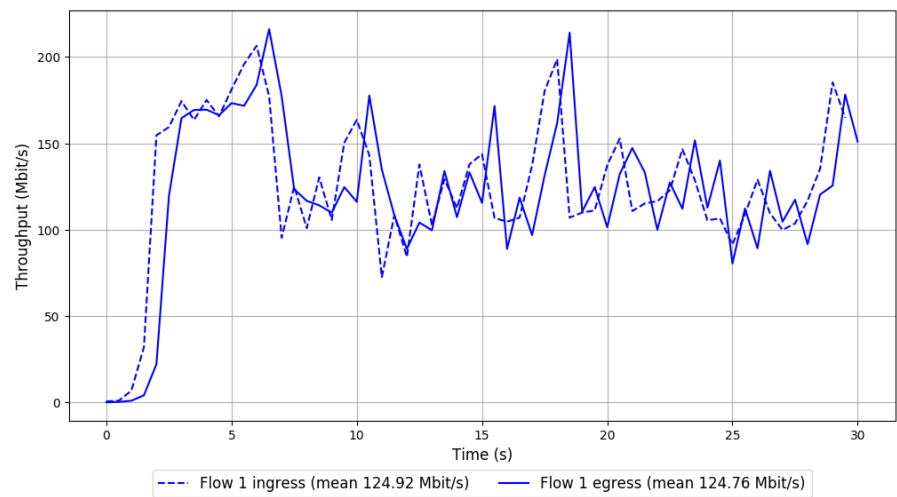
Run 4: Report of TCP BBR — Data Link

```
Run 5: Statistics of TCP BBR

Start at: 2019-03-19 11:21:37
End at: 2019-03-19 11:22:07
Local clock offset: -0.545 ms
Remote clock offset: -38.812 ms

Below is generated by plot.py at 2019-03-19 11:51:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 289.55 Mbit/s
95th percentile per-packet one-way delay: 361.431 ms
Loss rate: 3.88%
-- Flow 1:
Average throughput: 289.55 Mbit/s
95th percentile per-packet one-way delay: 361.431 ms
Loss rate: 3.88%
```
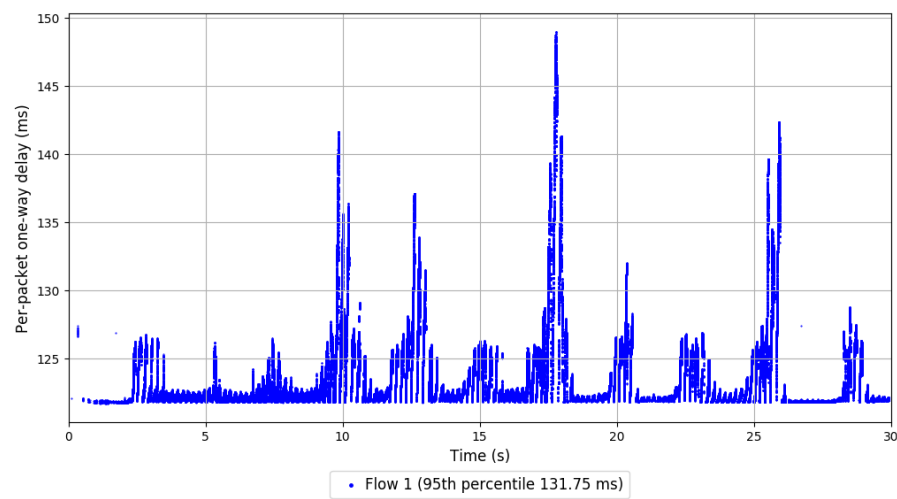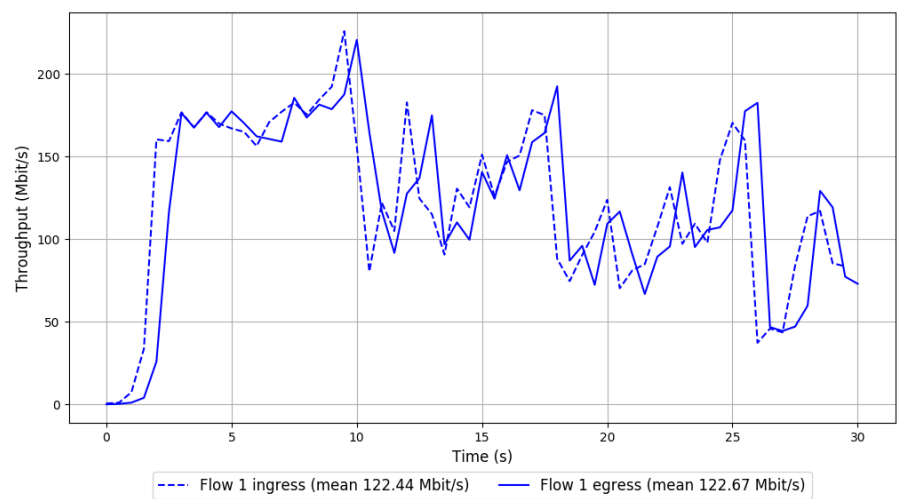
Run 5: Report of TCP BBR — Data Link

```
Run 1: Statistics of Copa

Start at: 2019-03-19 09:19:06
End at: 2019-03-19 09:19:36
Local clock offset: -0.233 ms
Remote clock offset: -39.835 ms

Below is generated by plot.py at 2019-03-19 11:51:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 124.76 Mbit/s
95th percentile per-packet one-way delay: 144.895 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 124.76 Mbit/s
95th percentile per-packet one-way delay: 144.895 ms
Loss rate: 0.78%
```
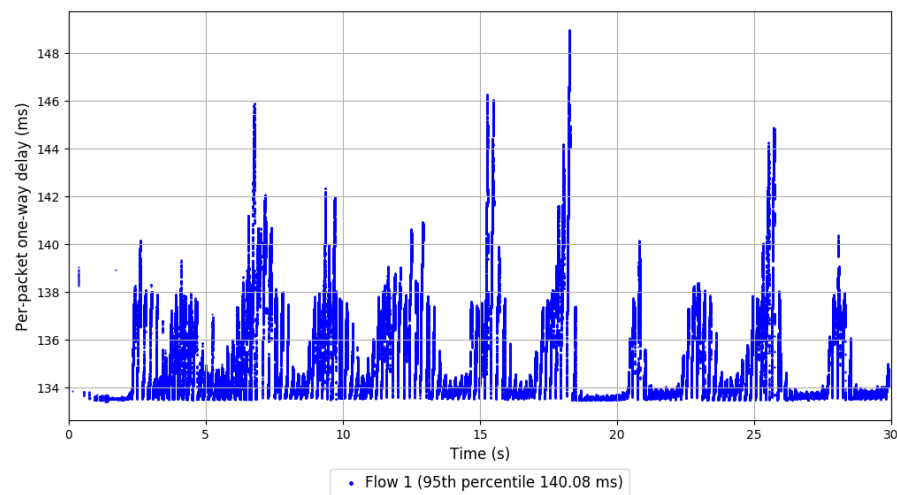
Run 1: Report of Copa — Data Link

```
Run 2: Statistics of Copa

Start at: 2019-03-19 09:53:01
End at: 2019-03-19 09:53:31
Local clock offset: 0.62 ms
Remote clock offset: -27.445 ms

Below is generated by plot.py at 2019-03-19 11:51:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 122.67 Mbit/s
95th percentile per-packet one-way delay: 131.755 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 122.67 Mbit/s
95th percentile per-packet one-way delay: 131.755 ms
Loss rate: 0.46%
```
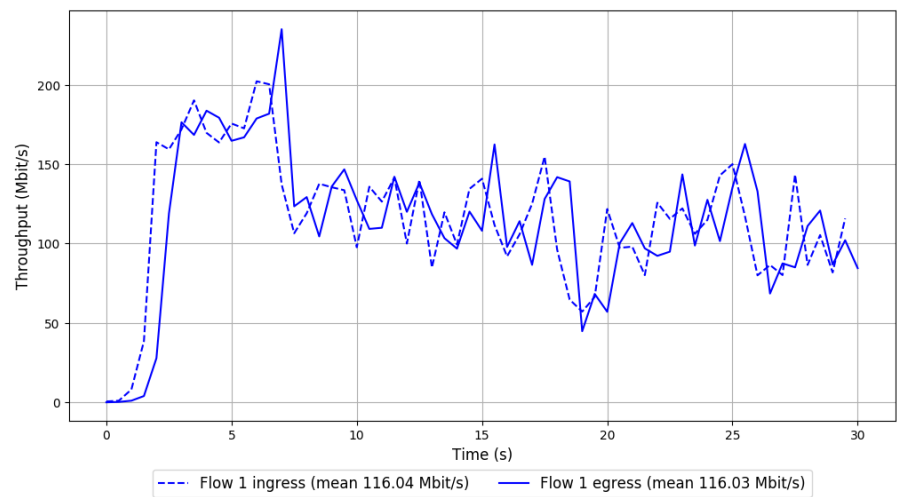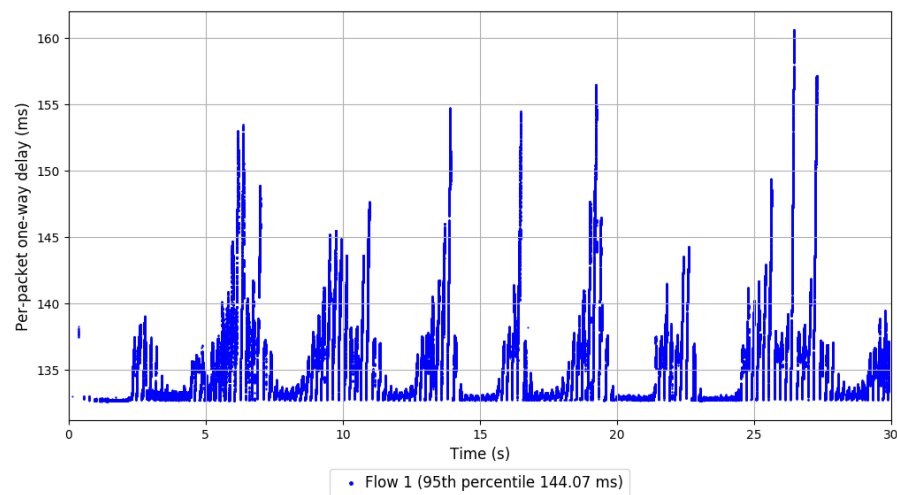
Run 2: Report of Copa — Data Link

```
Run 3: Statistics of Copa

Start at: 2019-03-19 10:26:59
End at: 2019-03-19 10:27:29
Local clock offset: 0.377 ms
Remote clock offset: -39.388 ms

Below is generated by plot.py at 2019-03-19 11:51:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 116.03 Mbit/s
95th percentile per-packet one-way delay: 140.083 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 116.03 Mbit/s
95th percentile per-packet one-way delay: 140.083 ms
Loss rate: 0.67%
```
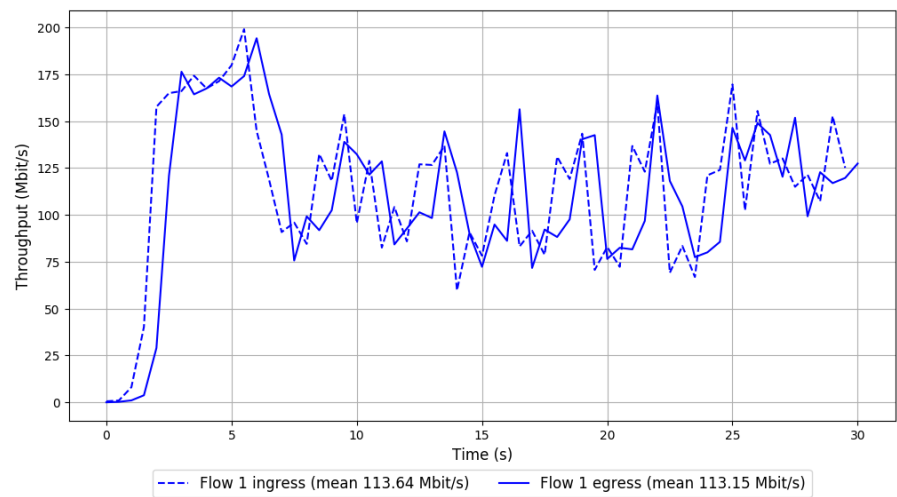
Run 3: Report of Copa — Data Link

```
Run 4: Statistics of Copa

Start at: 2019-03-19 11:00:51
End at: 2019-03-19 11:01:21
Local clock offset: -0.148 ms
Remote clock offset: -40.108 ms

Below is generated by plot.py at 2019-03-19 11:51:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 113.15 Mbit/s
95th percentile per-packet one-way delay: 144.066 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 113.15 Mbit/s
95th percentile per-packet one-way delay: 144.066 ms
Loss rate: 0.79%
```
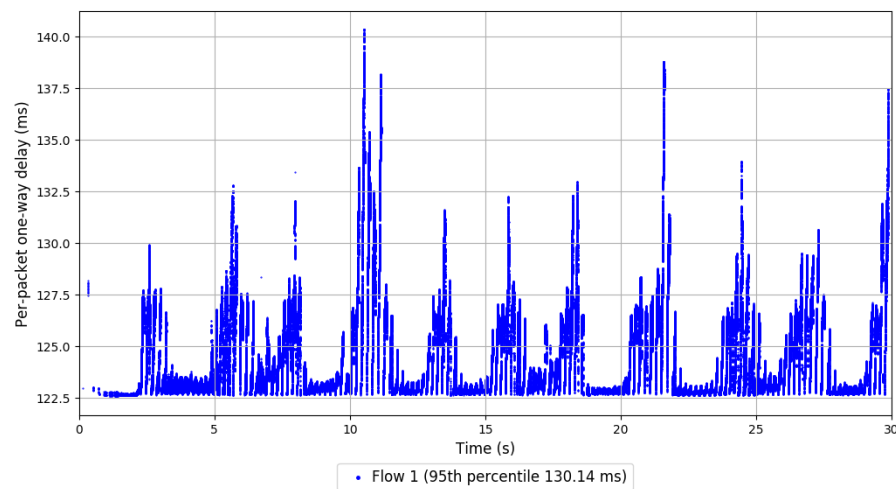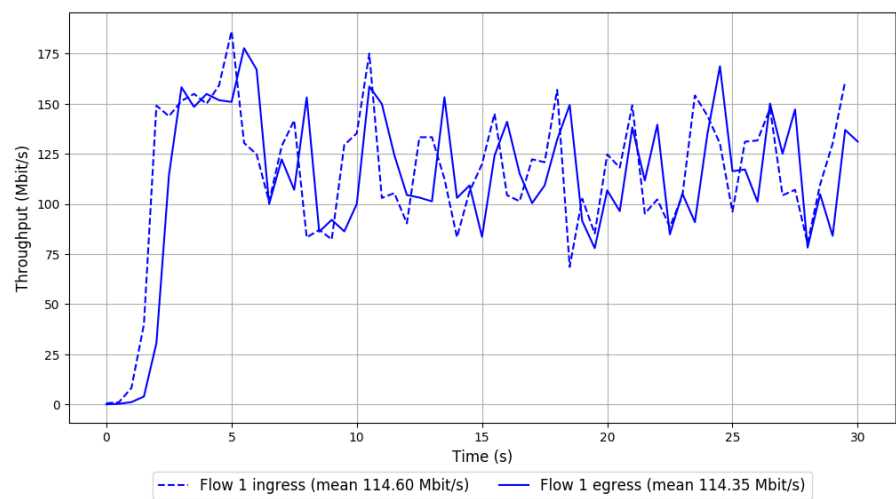
Run 4: Report of Copa — Data Link

```
Run 5: Statistics of Copa

Start at: 2019-03-19 11:40:18
End at: 2019-03-19 11:40:48
Local clock offset: 0.077 ms
Remote clock offset: -27.651 ms


# Below is generated by plot.py at 2019-03-19 11:52:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 114.35 Mbit/s
95th percentile per-packet one-way delay: 130.142 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 114.35 Mbit/s
95th percentile per-packet one-way delay: 130.142 ms
Loss rate: 0.87%
```

Run 5: Report of Copa — Data Link

Flow 1 ingress (mean 114.60 Mbit/s)   Flow 1 egress (mean 114.35 Mbit/s)

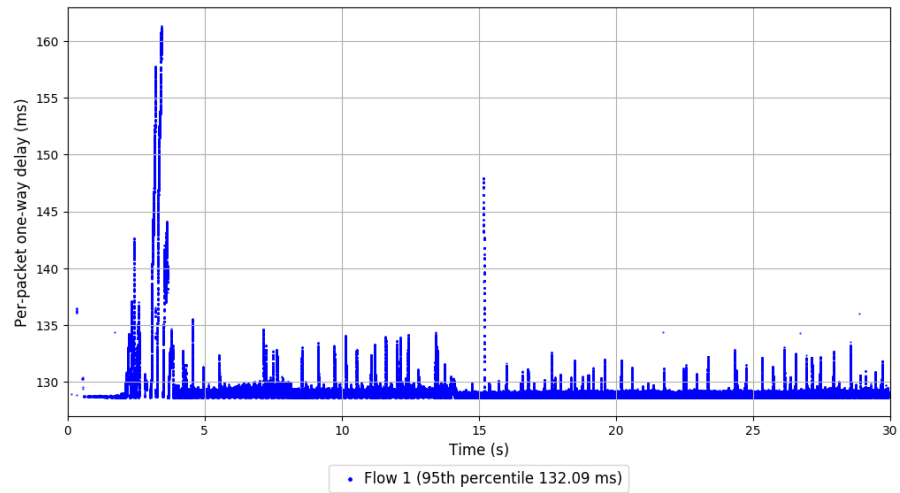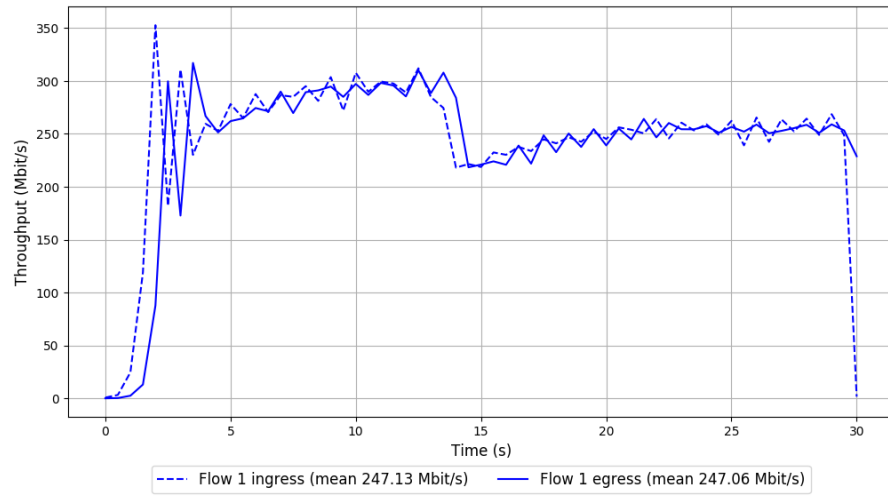• Flow 1 (95th percentile 130.14 ms)

```
Run 1: Statistics of TCP Cubic

Start at: 2019-03-19 09:06:55
End at: 2019-03-19 09:07:25
Local clock offset: 0.552 ms
Remote clock offset: -33.355 ms

# Below is generated by plot.py at 2019-03-19 11:52:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 247.06 Mbit/s
95th percentile per-packet one-way delay: 132.092 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 247.06 Mbit/s
95th percentile per-packet one-way delay: 132.092 ms
Loss rate: 0.67%
```
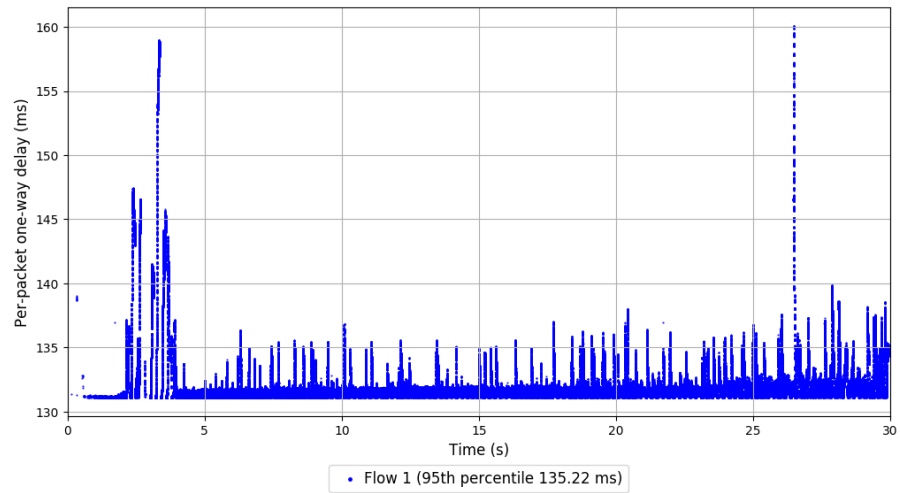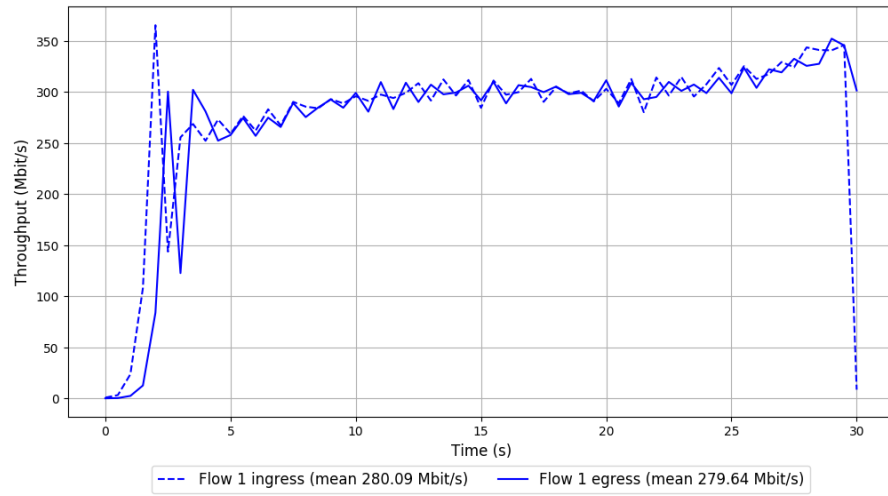
Run 1: Report of TCP Cubic — Data Link

```
Run 2: Statistics of TCP Cubic

Start at: 2019-03-19 09:40:47
End at: 2019-03-19 09:41:17
Local clock offset: -3.172 ms
Remote clock offset: -40.783 ms


# Below is generated by plot.py at 2019-03-19 11:53:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 279.64 Mbit/s
95th percentile per-packet one-way delay: 135.217 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 279.64 Mbit/s
95th percentile per-packet one-way delay: 135.217 ms
Loss rate: 0.82%
```
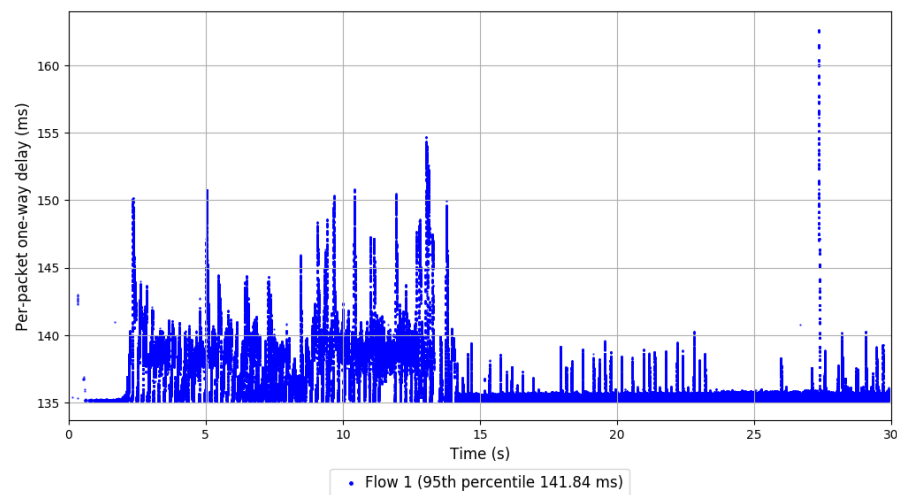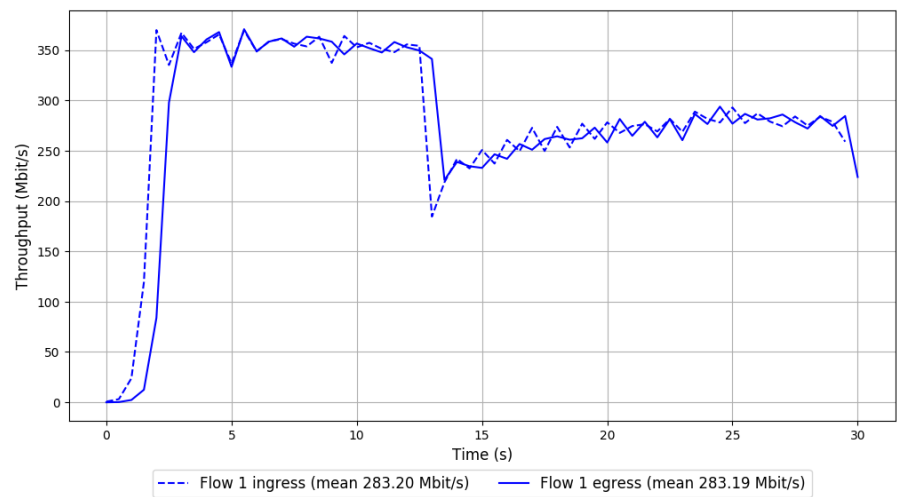
Run 2: Report of TCP Cubic — Data Link

```
Run 3: Statistics of TCP Cubic

Start at: 2019-03-19 10:20:18
End at: 2019-03-19 10:20:48
Local clock offset: 0.897 ms
Remote clock offset: -39.586 ms


# Below is generated by plot.py at 2019-03-19 11:53:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 283.19 Mbit/s
95th percentile per-packet one-way delay: 141.840 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 283.19 Mbit/s
95th percentile per-packet one-way delay: 141.840 ms
Loss rate: 0.65%
```

Run 3: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 283.20 Mbit/s)   Flow 1 egress (mean 283.19 Mbit/s)
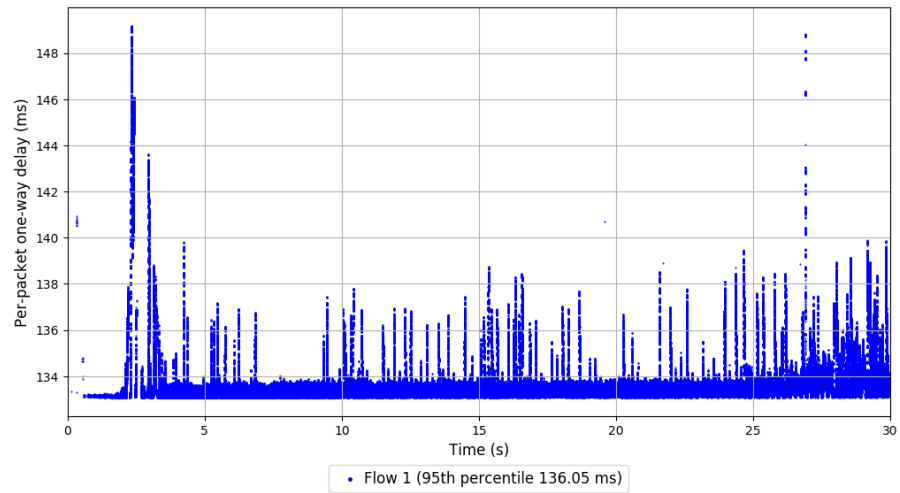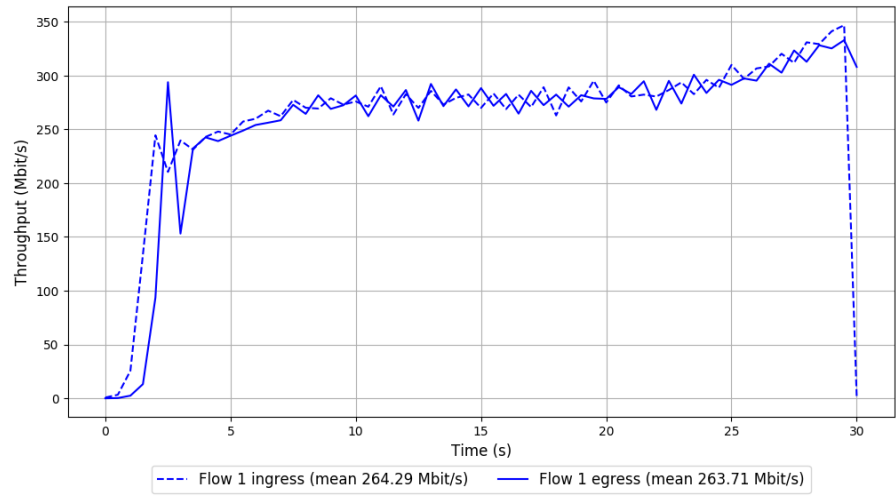

Flow 1 (95th percentile 141.84 ms)

```
Run 4: Statistics of TCP Cubic

Start at: 2019-03-19 10:54:15
End at: 2019-03-19 10:54:45
Local clock offset: 0.024 ms
Remote clock offset: -40.515 ms


# Below is generated by plot.py at 2019-03-19 11:53:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 263.71 Mbit/s
95th percentile per-packet one-way delay: 136.046 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 263.71 Mbit/s
95th percentile per-packet one-way delay: 136.046 ms
Loss rate: 0.86%
```

Run 4: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 264.29 Mbit/s)   Flow 1 egress (mean 263.71 Mbit/s)
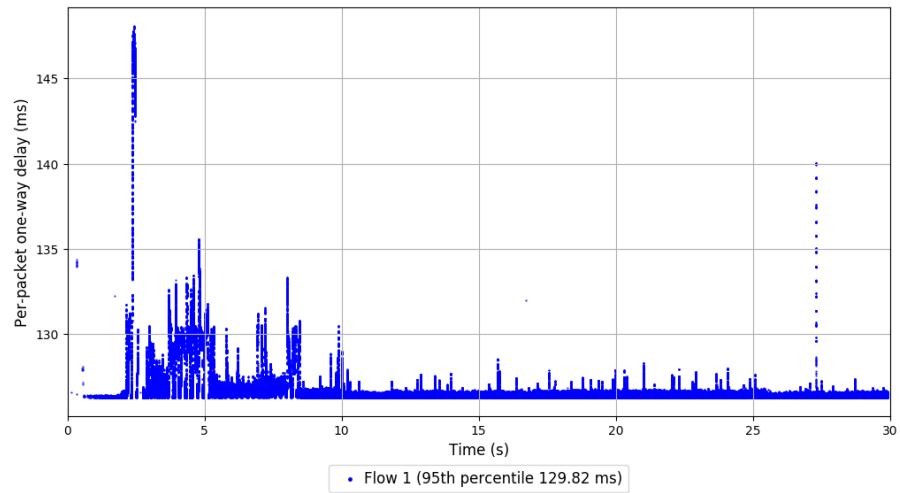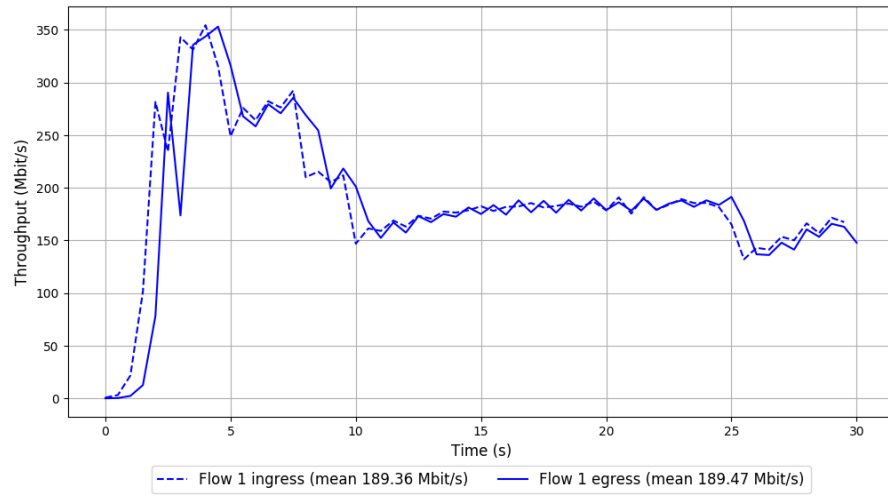

Flow 1 (95th percentile 136.05 ms)

```
Run 5: Statistics of TCP Cubic

Start at: 2019-03-19 11:33:42
End at: 2019-03-19 11:34:12
Local clock offset: 1.697 ms
Remote clock offset: -29.286 ms


# Below is generated by plot.py at 2019-03-19 11:53:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 189.47 Mbit/s
95th percentile per-packet one-way delay: 129.818 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 189.47 Mbit/s
95th percentile per-packet one-way delay: 129.818 ms
Loss rate: 0.59%
```
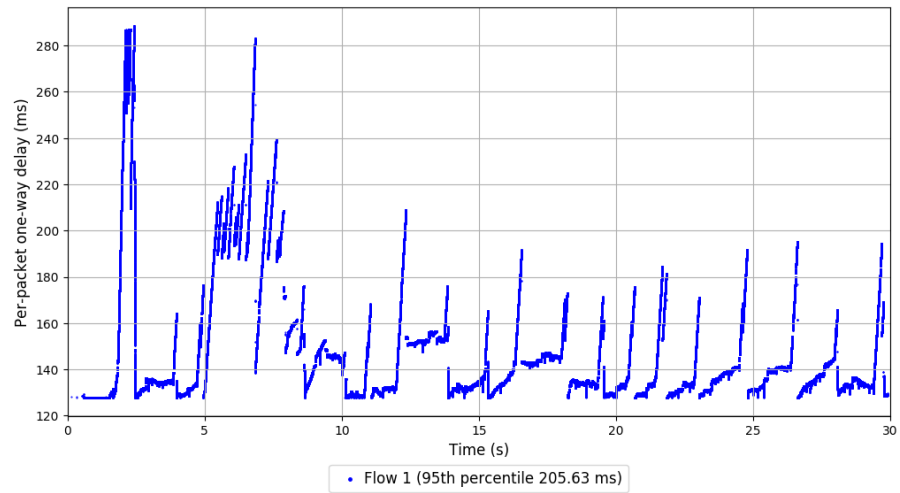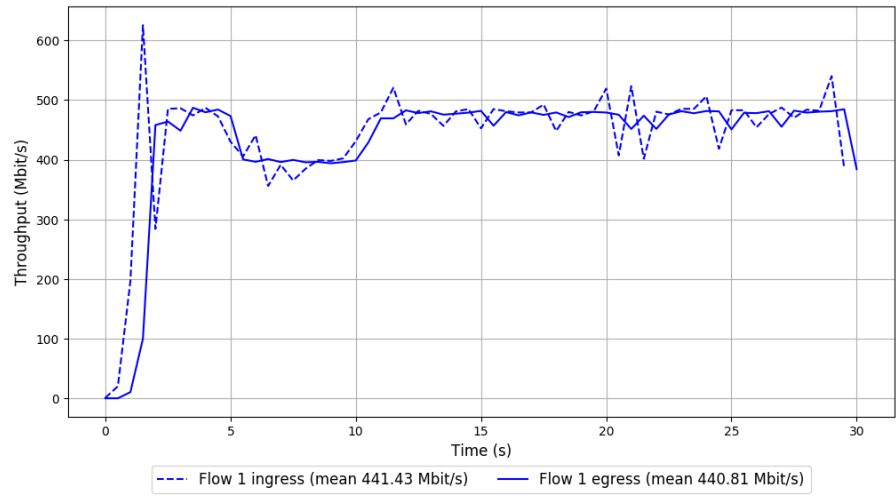
Run 5: Report of TCP Cubic — Data Link

```
Run 1: Statistics of FillP

Start at: 2019-03-19 08:40:34
End at: 2019-03-19 08:41:04
Local clock offset: 2.632 ms
Remote clock offset: -34.27 ms


# Below is generated by plot.py at 2019-03-19 11:56:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 440.81 Mbit/s
95th percentile per-packet one-way delay: 205.633 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 440.81 Mbit/s
95th percentile per-packet one-way delay: 205.633 ms
Loss rate: 0.78%
```

Run 1: Report of FillP — Data Link

Flow 1 ingress (mean 441.43 Mbit/s)   Flow 1 egress (mean 440.81 Mbit/s)

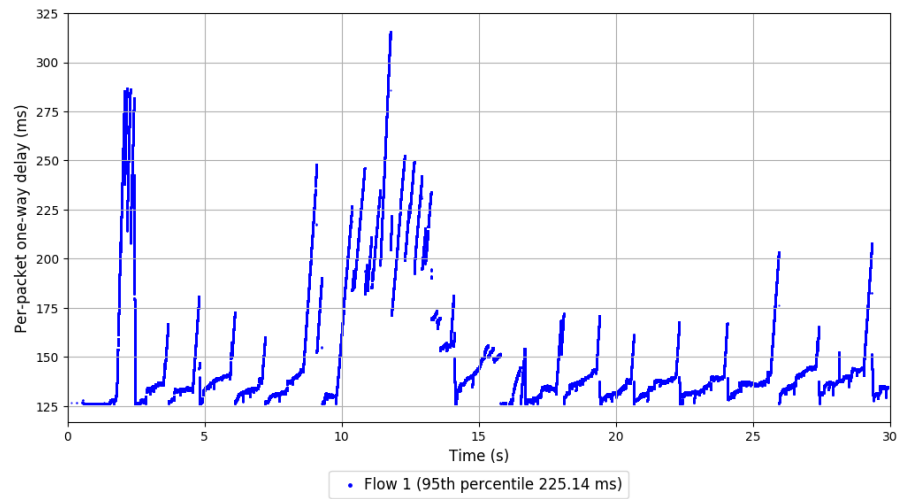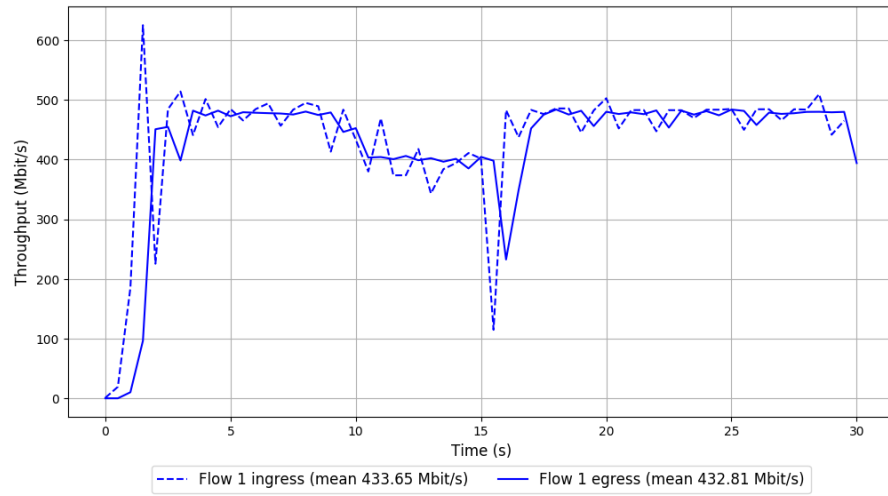Flow 1 (95th percentile 205.63 ms)

```
Run 2: Statistics of FillP

Start at: 2019-03-19 09:25:47
End at: 2019-03-19 09:26:17
Local clock offset: 0.123 ms
Remote clock offset: -32.611 ms


# Below is generated by plot.py at 2019-03-19 11:57:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 432.81 Mbit/s
95th percentile per-packet one-way delay: 225.140 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 432.81 Mbit/s
95th percentile per-packet one-way delay: 225.140 ms
Loss rate: 0.85%
```
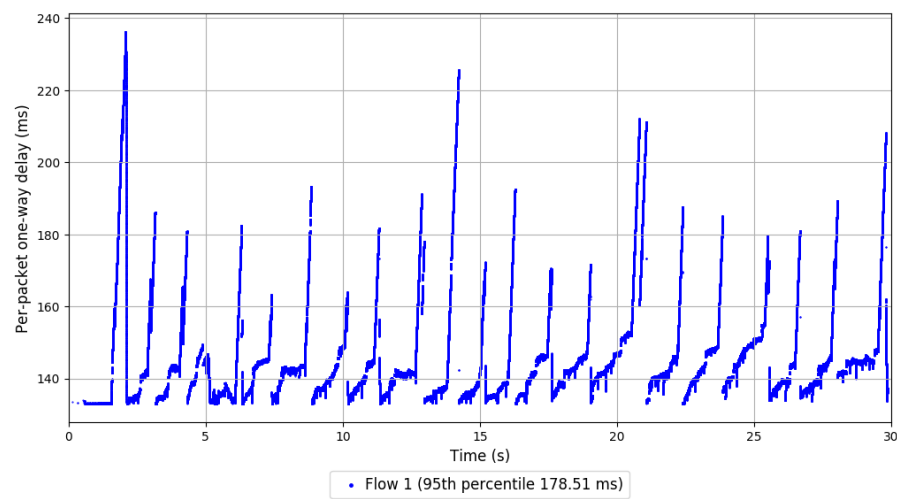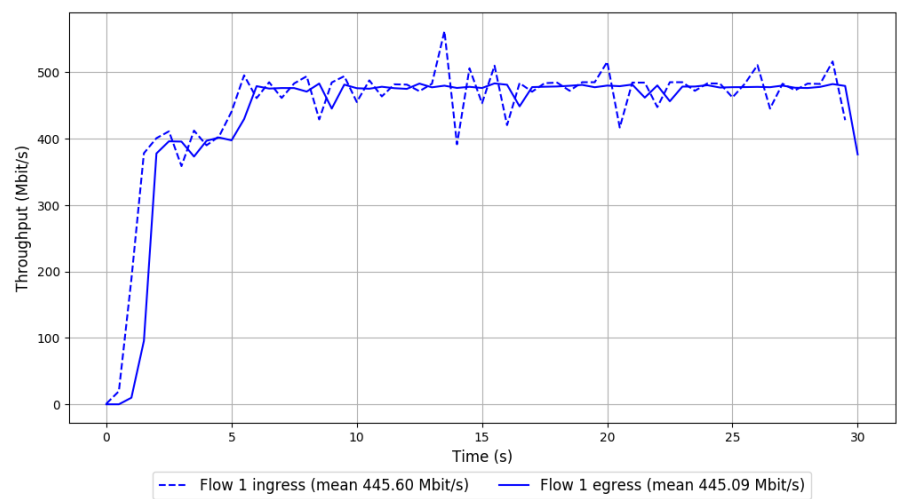
Run 2: Report of FillP — Data Link

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```
Run 3: Statistics of FillP

Start at: 2019-03-19 09:59:42
End at: 2019-03-19 10:00:12
Local clock offset: -0.384 ms
Remote clock offset: -38.665 ms


# Below is generated by plot.py at 2019-03-19 11:58:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 445.09 Mbit/s
95th percentile per-packet one-way delay: 178.509 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 445.09 Mbit/s
95th percentile per-packet one-way delay: 178.509 ms
Loss rate: 0.88%
```

Run 3: Report of FillP — Data Link

Flow 1 ingress (mean 445.60 Mbit/s) Flow 1 egress (mean 445.09 Mbit/s)

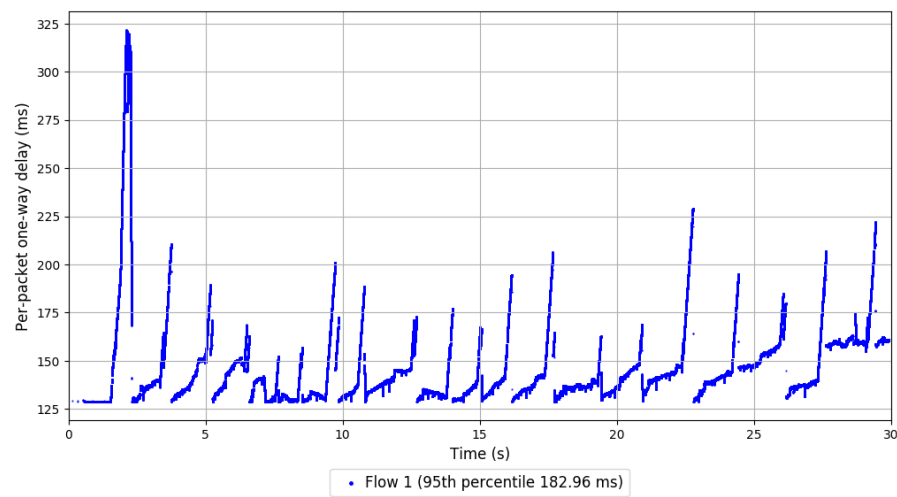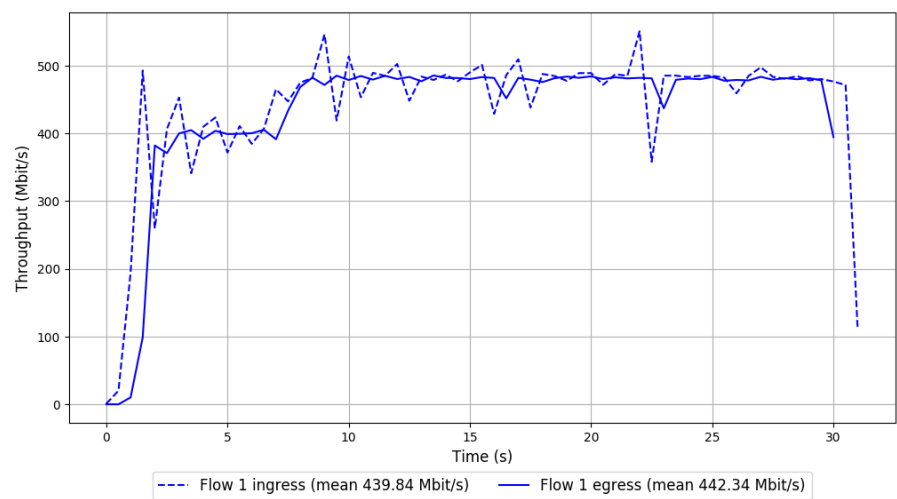Flow 1 (95th percentile 178.51 ms)

```
Run 4: Statistics of FillP

Start at: 2019-03-19 10:33:37
End at: 2019-03-19 10:34:07
Local clock offset: 0.537 ms
Remote clock offset: -34.793 ms


# Below is generated by plot.py at 2019-03-19 11:58:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 442.34 Mbit/s
95th percentile per-packet one-way delay: 182.960 ms
Loss rate: 4.74%
-- Flow 1:
Average throughput: 442.34 Mbit/s
95th percentile per-packet one-way delay: 182.960 ms
Loss rate: 4.74%
```

Run 4: Report of FillP — Data Link

Flow 1 ingress (mean 439.84 Mbit/s)   Flow 1 egress (mean 442.34 Mbit/s)

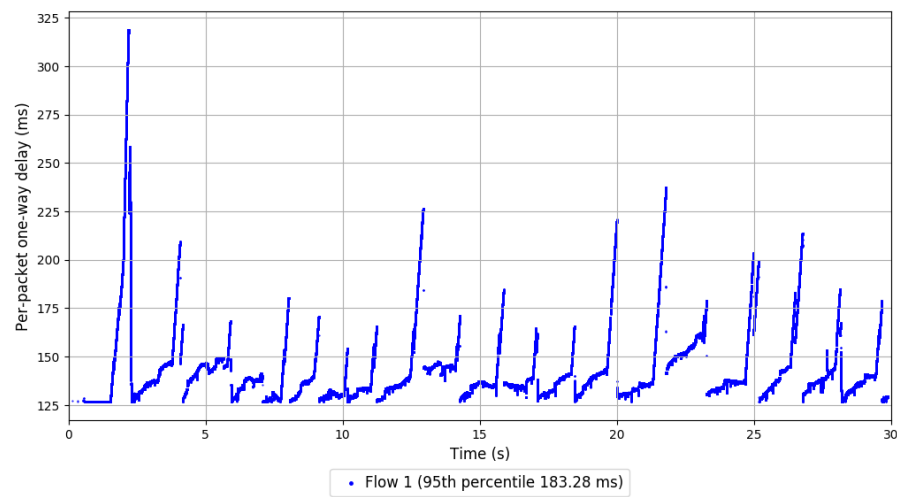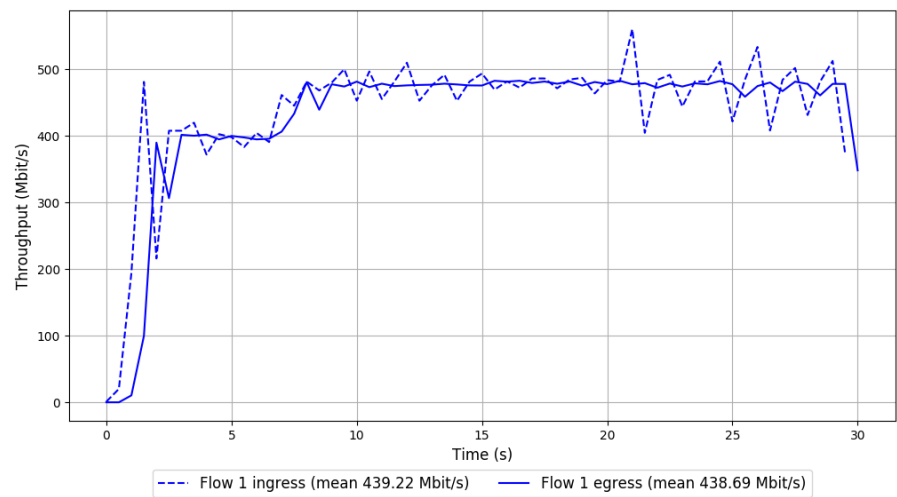
Flow 1 (95th percentile 182.96 ms)

```
Run 5: Statistics of FillP

Start at: 2019-03-19 11:18:39
End at: 2019-03-19 11:19:09
Local clock offset: -0.423 ms
Remote clock offset: -34.33 ms


# Below is generated by plot.py at 2019-03-19 11:59:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 438.69 Mbit/s
95th percentile per-packet one-way delay: 183.282 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 438.69 Mbit/s
95th percentile per-packet one-way delay: 183.282 ms
Loss rate: 0.77%
```

Run 5: Report of FillP — Data Link

```
Run 1: Statistics of FillP-Sheep

Start at: 2019-03-19 08:36:34
End at: 2019-03-19 08:37:04
Local clock offset: 2.88 ms
Remote clock offset: -38.824 ms


# Below is generated by plot.py at 2019-03-19 11:59:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 426.41 Mbit/s
95th percentile per-packet one-way delay: 215.042 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 426.41 Mbit/s
95th percentile per-packet one-way delay: 215.042 ms
Loss rate: 0.79%
```
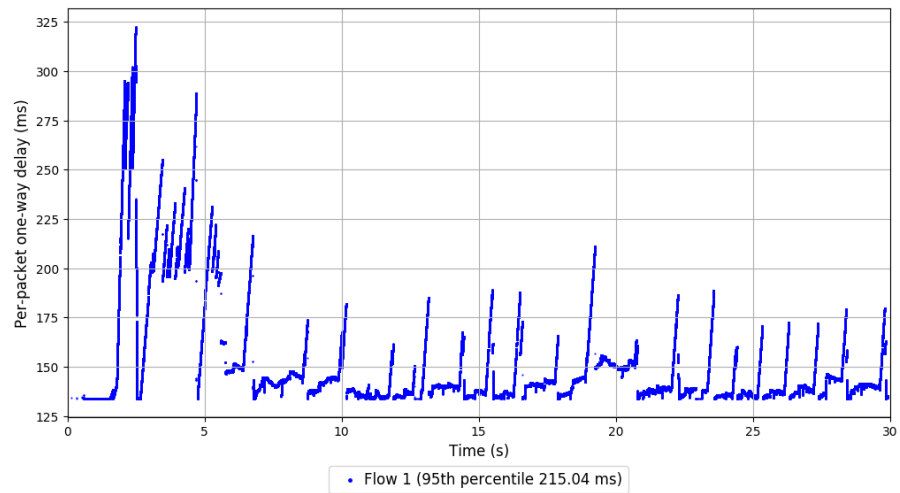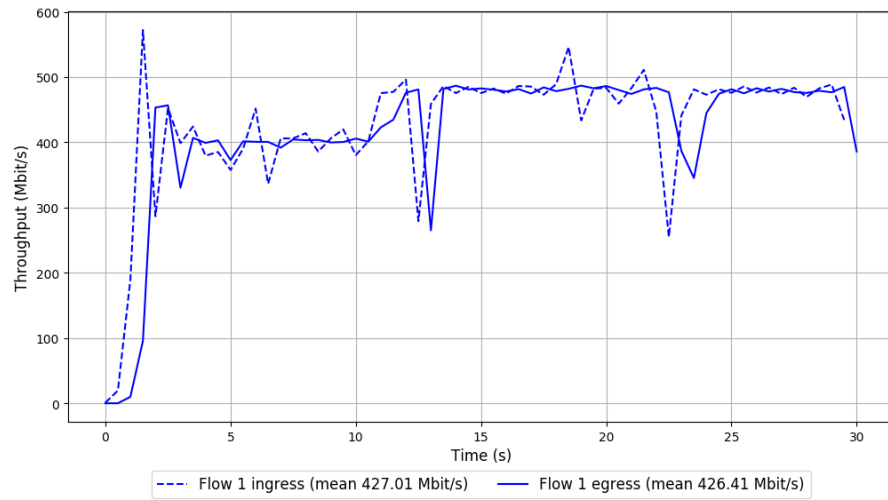
Run 1: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 427.01 Mbit/s) — — — Flow 1 egress (mean 426.41 Mbit/s)
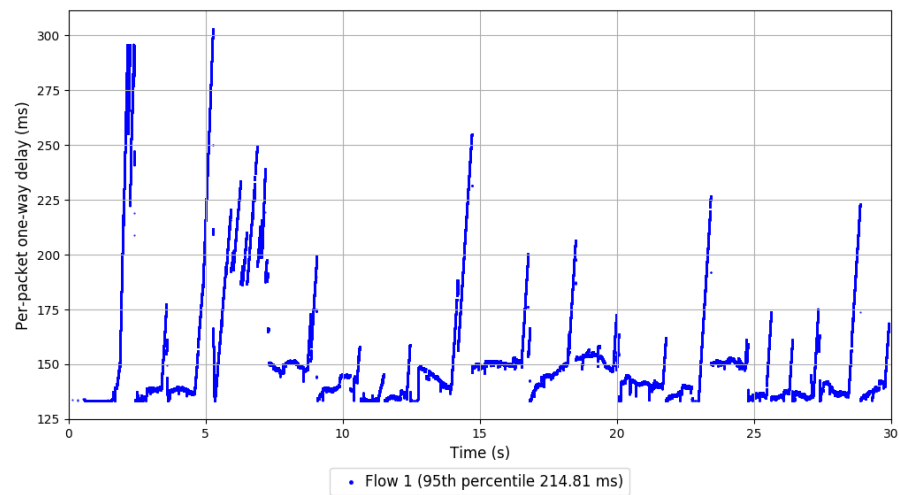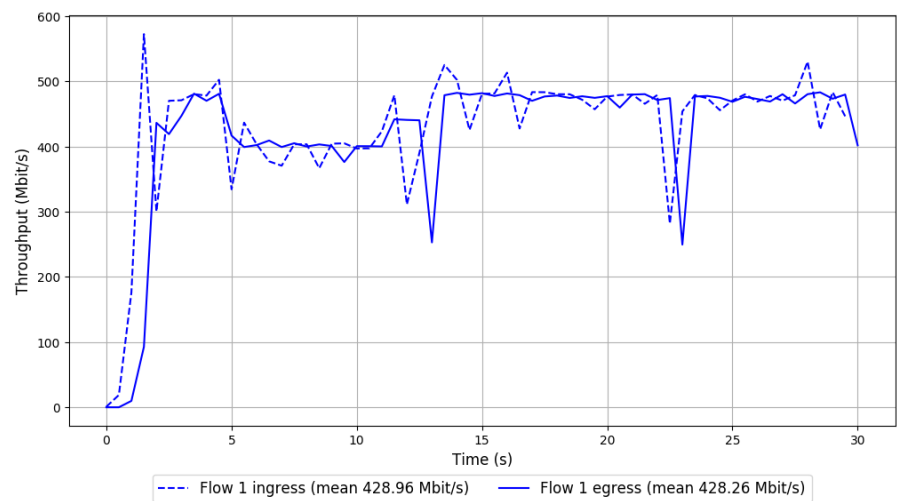

• Flow 1 (95th percentile 215.04 ms)

```
Run 2: Statistics of FillP-Sheep

Start at: 2019-03-19 09:21:51
End at: 2019-03-19 09:22:21
Local clock offset: 0.997 ms
Remote clock offset: -38.466 ms


# Below is generated by plot.py at 2019-03-19 11:59:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 428.26 Mbit/s
95th percentile per-packet one-way delay: 214.814 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 428.26 Mbit/s
95th percentile per-packet one-way delay: 214.814 ms
Loss rate: 0.81%
```
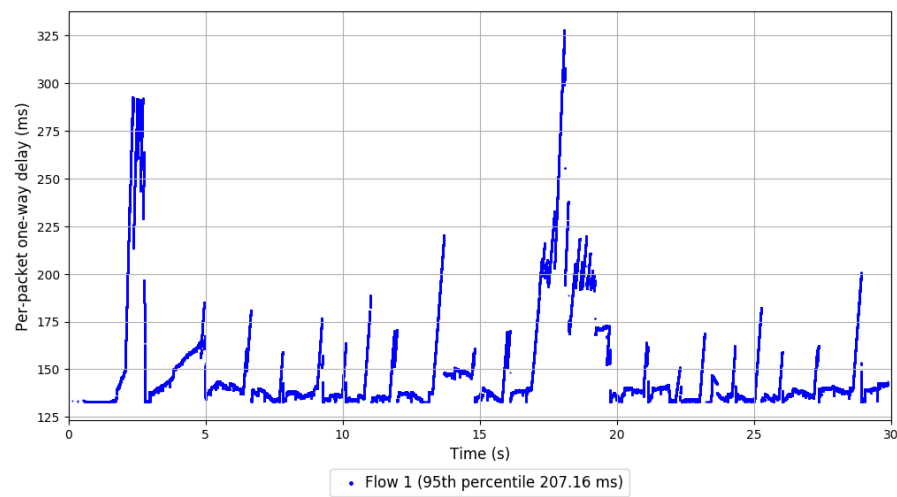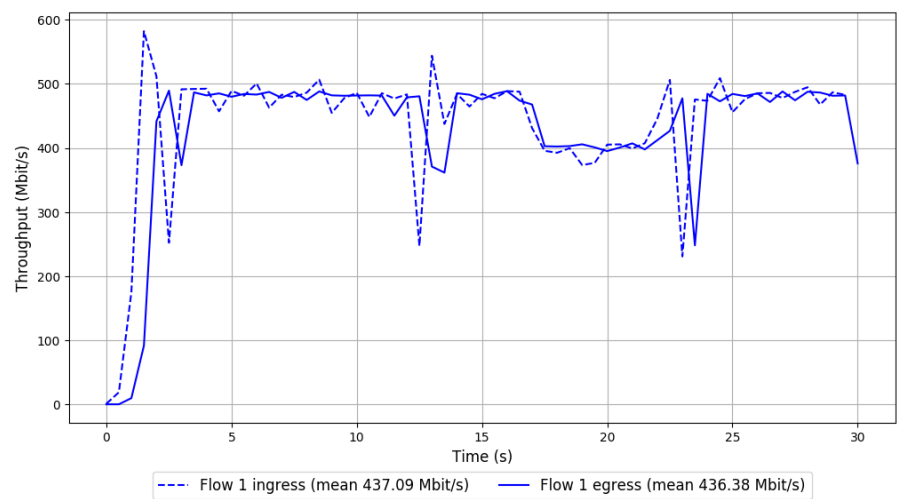
Run 2: Report of FillP-Sheep — Data Link

```
Run 3: Statistics of FillP-Sheep

Start at: 2019-03-19 09:55:46
End at: 2019-03-19 09:56:16
Local clock offset: -0.414 ms
Remote clock offset: -39.477 ms


# Below is generated by plot.py at 2019-03-19 11:59:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 436.38 Mbit/s
95th percentile per-packet one-way delay: 207.161 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 436.38 Mbit/s
95th percentile per-packet one-way delay: 207.161 ms
Loss rate: 0.96%
```

Run 3: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 437.09 Mbit/s)   Flow 1 egress (mean 436.38 Mbit/s)
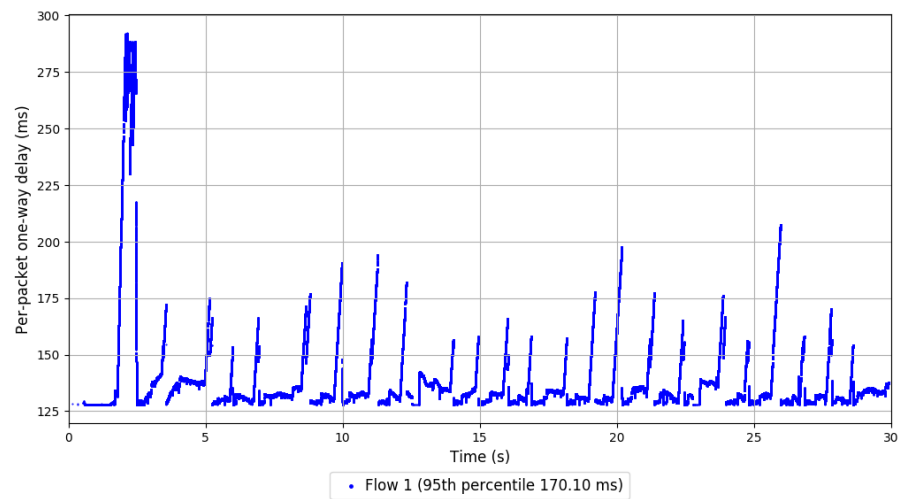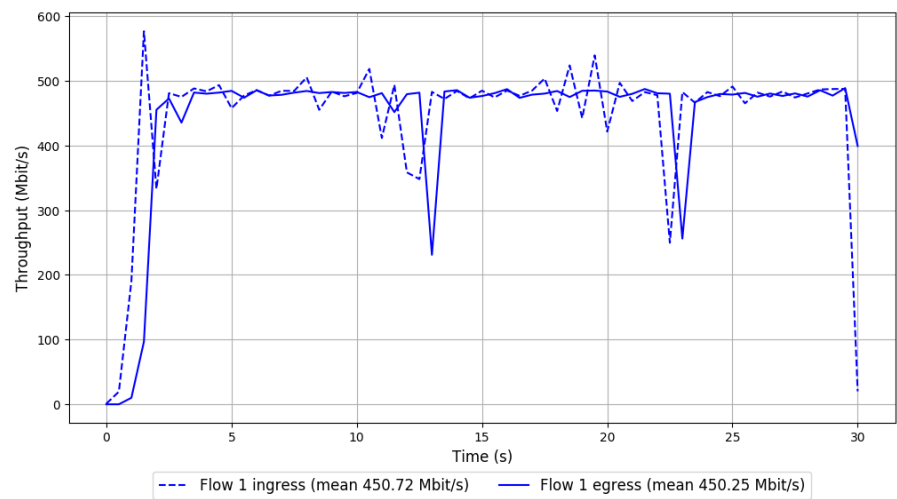

• Flow 1 (95th percentile 207.16 ms)

```
Run 4: Statistics of FillP-Sheep

Start at: 2019-03-19 10:29:43
End at: 2019-03-19 10:30:13
Local clock offset: 0.498 ms
Remote clock offset: -35.123 ms


# Below is generated by plot.py at 2019-03-19 12:03:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 450.25 Mbit/s
95th percentile per-packet one-way delay: 170.105 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 450.25 Mbit/s
95th percentile per-packet one-way delay: 170.105 ms
Loss rate: 0.89%
```
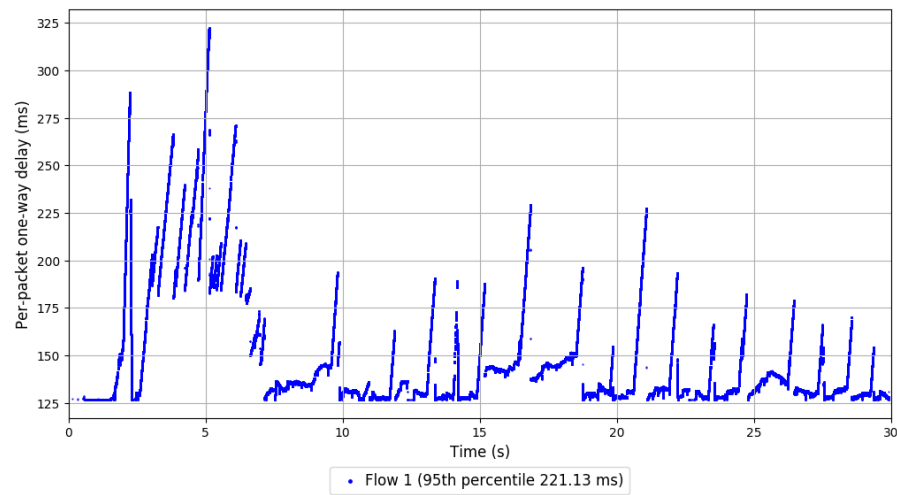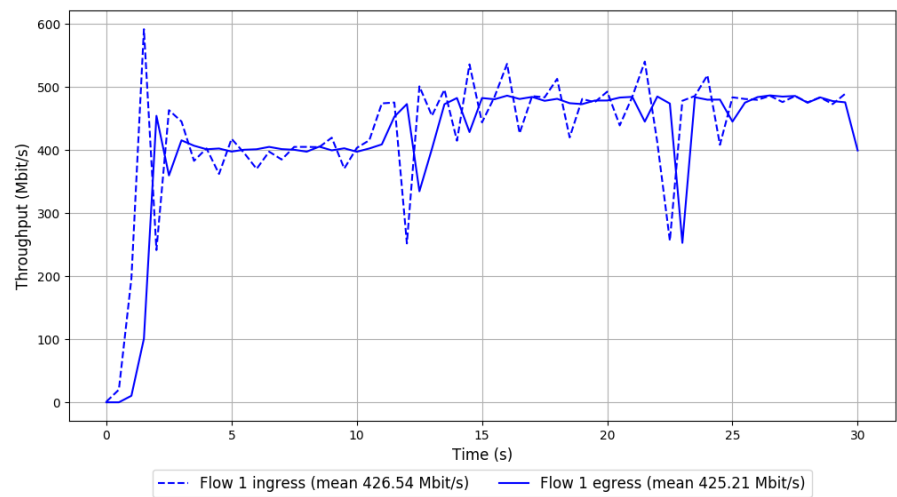
Run 4: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 450.72 Mbit/s) --- Flow 1 egress (mean 450.25 Mbit/s)

Flow 1 (95th percentile 170.10 ms)

```
Run 5: Statistics of FillP-Sheep

Start at: 2019-03-19 11:09:15
End at: 2019-03-19 11:09:45
Local clock offset: -0.06 ms
Remote clock offset: -34.168 ms


# Below is generated by plot.py at 2019-03-19 12:03:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 425.21 Mbit/s
95th percentile per-packet one-way delay: 221.133 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 425.21 Mbit/s
95th percentile per-packet one-way delay: 221.133 ms
Loss rate: 0.95%
```

Run 5: Report of FillP-Sheep — Data Link

```
Run 1: Statistics of Indigo

Start at: 2019-03-19 08:44:47
End at: 2019-03-19 08:45:17
Local clock offset: 2.827 ms
Remote clock offset: -34.219 ms


# Below is generated by plot.py at 2019-03-19 12:03:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 126.37 Mbit/s
95th percentile per-packet one-way delay: 129.182 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 126.37 Mbit/s
95th percentile per-packet one-way delay: 129.182 ms
Loss rate: 0.61%
```
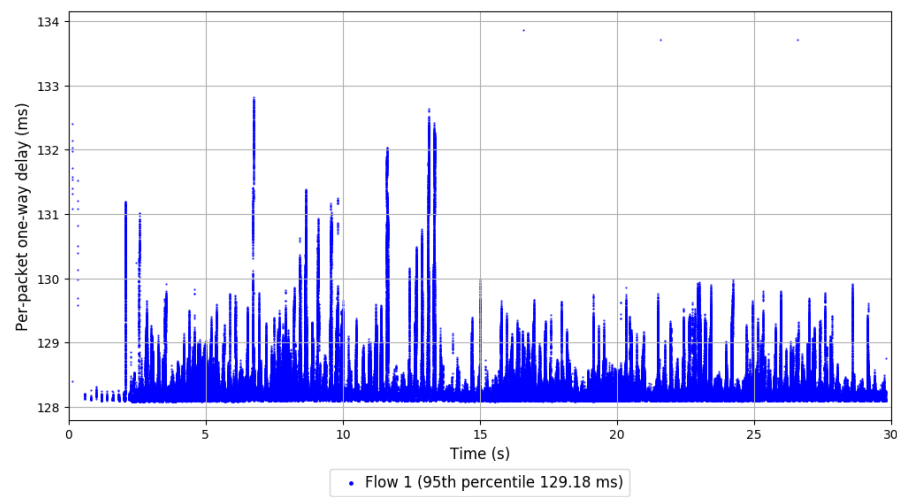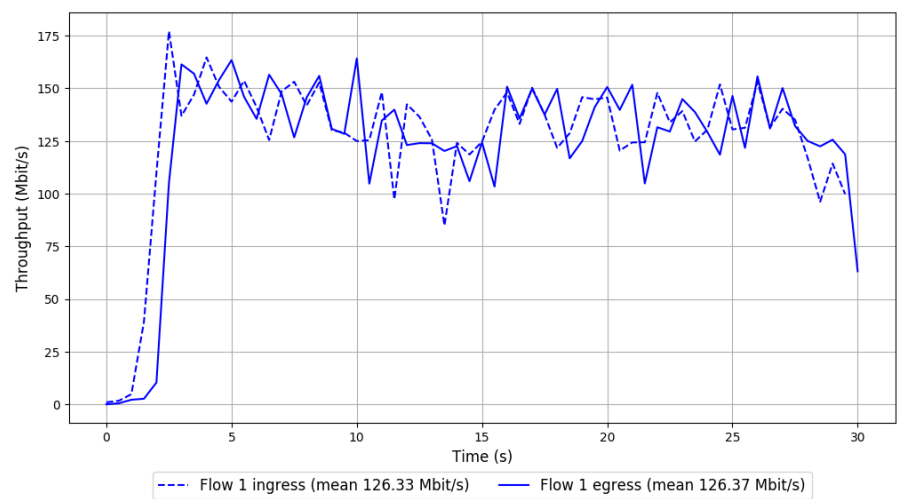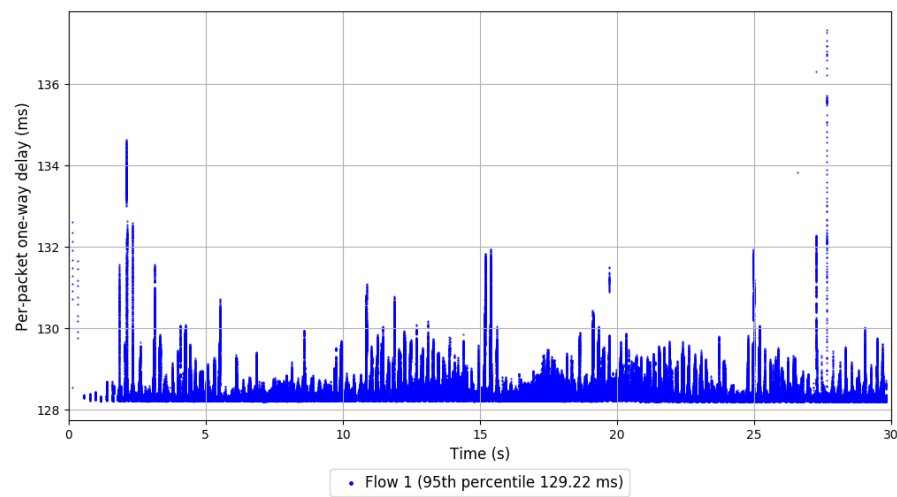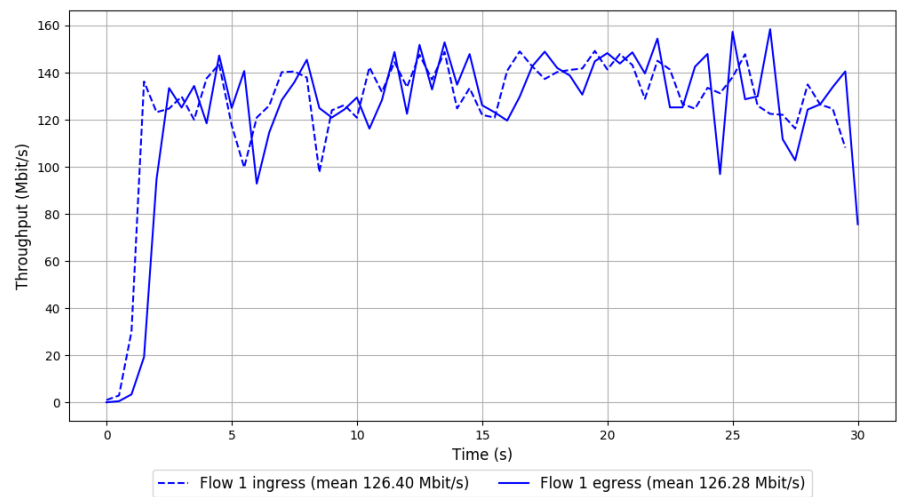
Run 1: Report of Indigo — Data Link

```
Run 2: Statistics of Indigo

Start at: 2019-03-19 09:30:04
End at: 2019-03-19 09:30:34
Local clock offset: 0.636 ms
Remote clock offset: -34.206 ms


# Below is generated by plot.py at 2019-03-19 12:03:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 126.28 Mbit/s
95th percentile per-packet one-way delay: 129.221 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 126.28 Mbit/s
95th percentile per-packet one-way delay: 129.221 ms
Loss rate: 0.74%
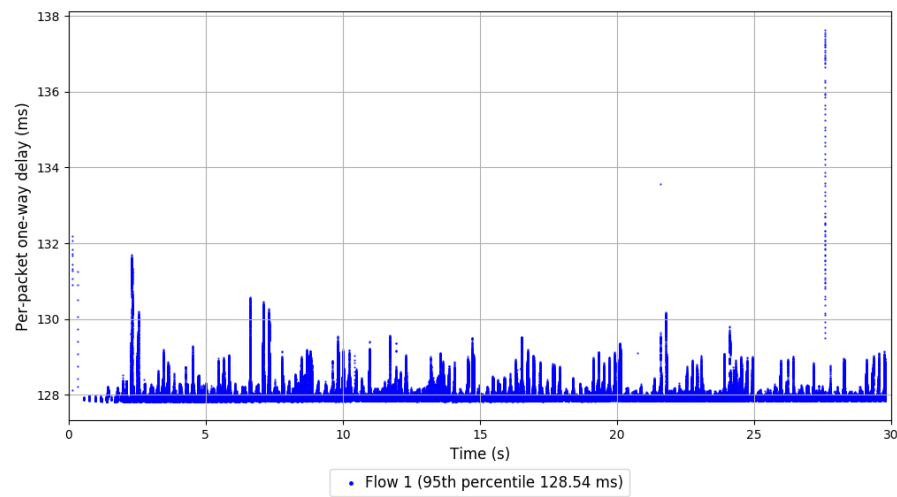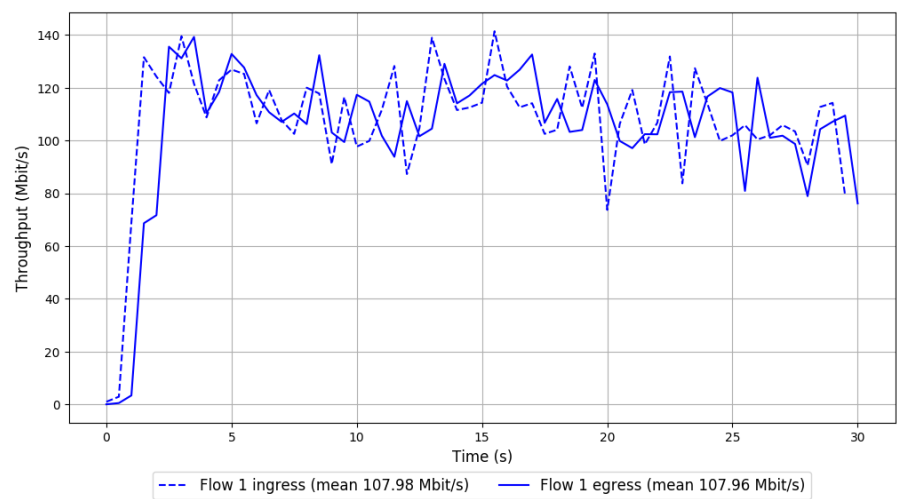```

Run 2: Report of Indigo — Data Link

```
Run 3: Statistics of Indigo

Start at: 2019-03-19 10:04:00
End at: 2019-03-19 10:04:30
Local clock offset: 0.4 ms
Remote clock offset: -34.231 ms


# Below is generated by plot.py at 2019-03-19 12:03:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 107.96 Mbit/s
95th percentile per-packet one-way delay: 128.543 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 107.96 Mbit/s
95th percentile per-packet one-way delay: 128.543 ms
Loss rate: 0.66%
```

Run 3: Report of Indigo — Data Link

Flow 1 ingress (mean 107.98 Mbit/s)   Flow 1 egress (mean 107.96 Mbit/s)

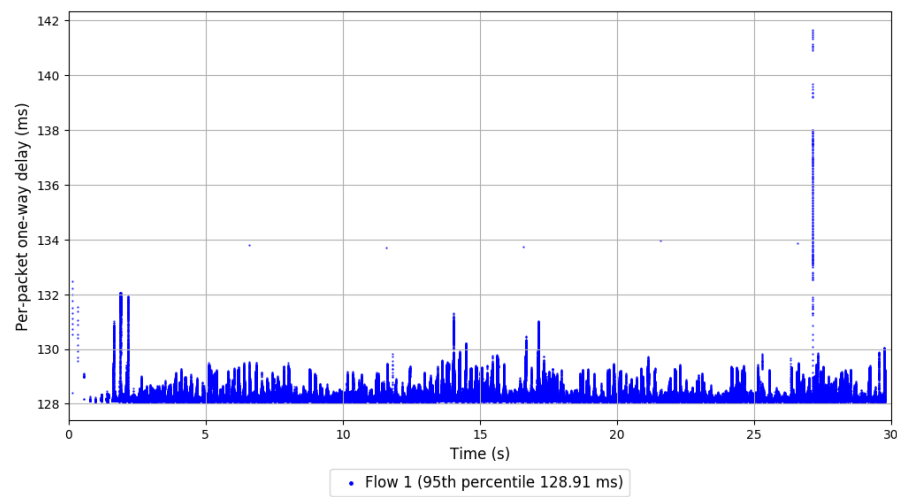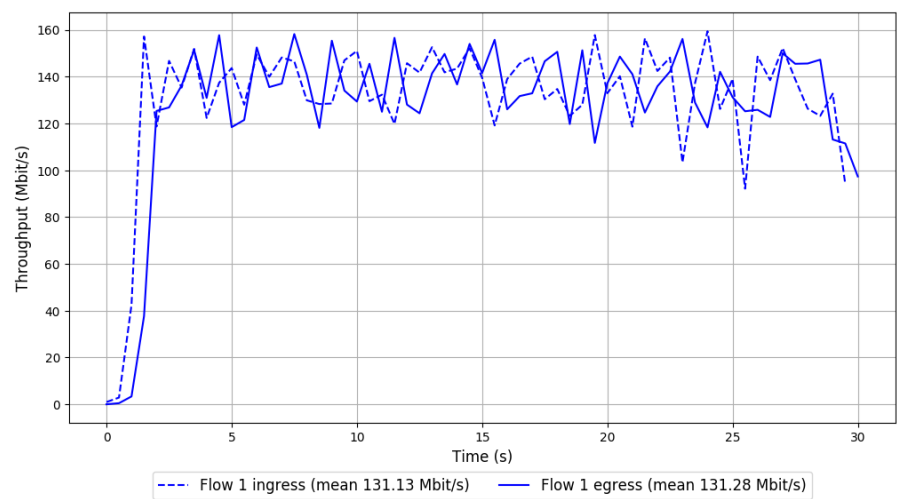

Flow 1 (95th percentile 128.54 ms)

```
Run 4: Statistics of Indigo

Start at: 2019-03-19 10:37:56
End at: 2019-03-19 10:38:26
Local clock offset: 1.032 ms
Remote clock offset: -33.459 ms


# Below is generated by plot.py at 2019-03-19 12:03:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 131.28 Mbit/s
95th percentile per-packet one-way delay: 128.908 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 131.28 Mbit/s
95th percentile per-packet one-way delay: 128.908 ms
Loss rate: 0.53%
```
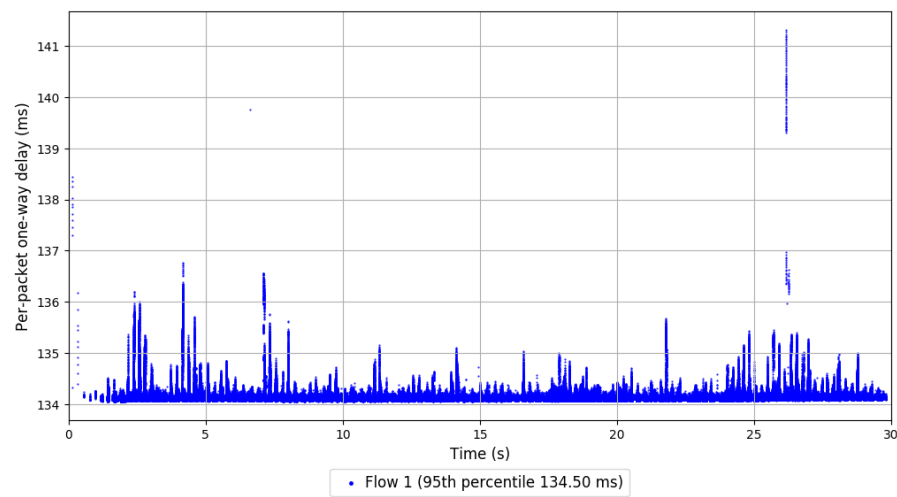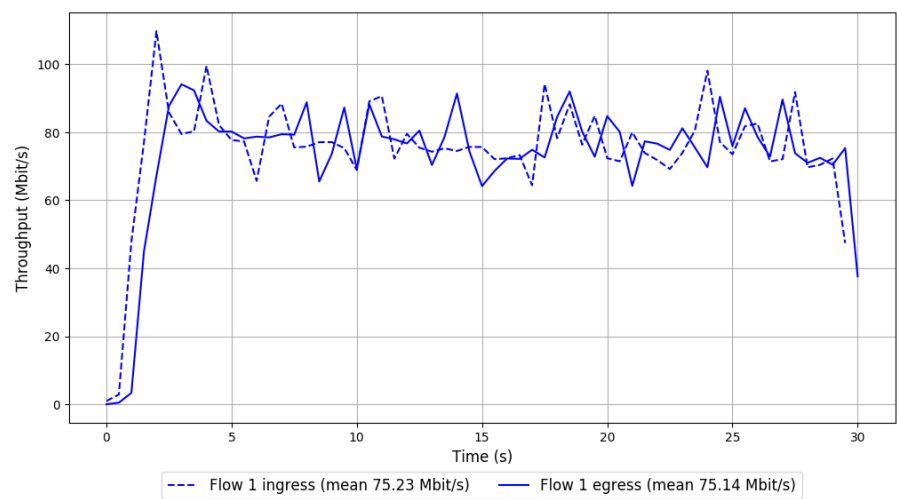
Run 4: Report of Indigo — Data Link

```
Run 5: Statistics of Indigo

Start at: 2019-03-19 11:23:02
End at: 2019-03-19 11:23:33
Local clock offset: -0.353 ms
Remote clock offset: -39.587 ms


# Below is generated by plot.py at 2019-03-19 12:03:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.14 Mbit/s
95th percentile per-packet one-way delay: 134.497 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 75.14 Mbit/s
95th percentile per-packet one-way delay: 134.497 ms
Loss rate: 0.76%
```

Run 5: Report of Indigo — Data Link

Flow 1 ingress (mean 75.23 Mbit/s)　　Flow 1 egress (mean 75.14 Mbit/s)

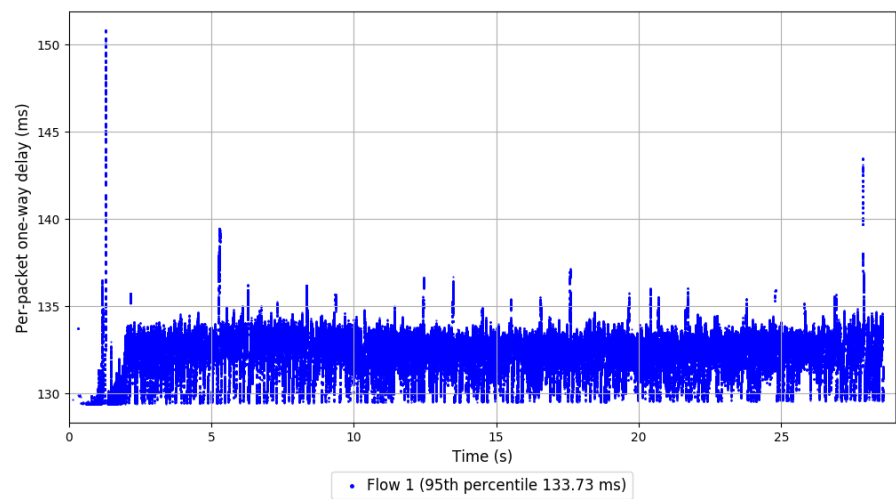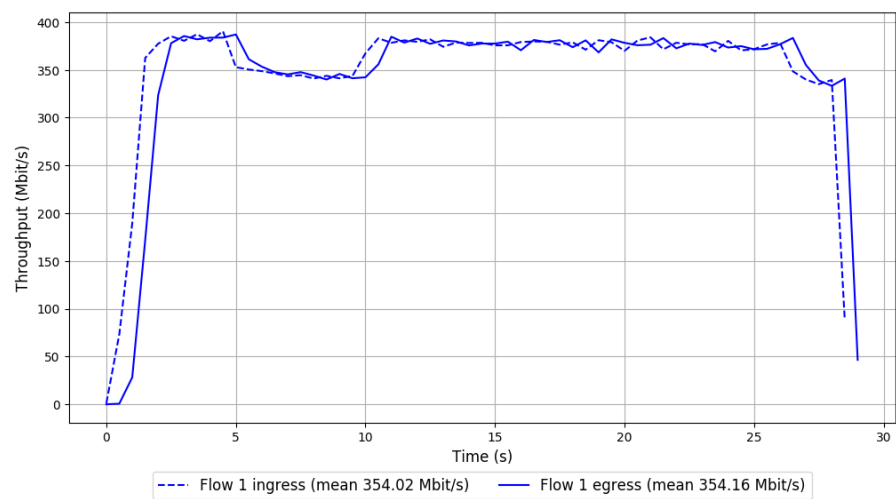Flow 1 (95th percentile 134.50 ms)

```
Run 1: Statistics of Indigo-MusesC3

Start at: 2019-03-19 08:46:05
End at: 2019-03-19 08:46:35
Local clock offset: 2.205 ms
Remote clock offset: -34.17 ms


# Below is generated by plot.py at 2019-03-19 12:03:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 354.16 Mbit/s
95th percentile per-packet one-way delay: 133.731 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 354.16 Mbit/s
95th percentile per-packet one-way delay: 133.731 ms
Loss rate: 0.64%
```

Run 1: Report of Indigo-MusesC3 — Data Link

Flow 1 ingress (mean 354.02 Mbit/s)   Flow 1 egress (mean 354.16 Mbit/s)
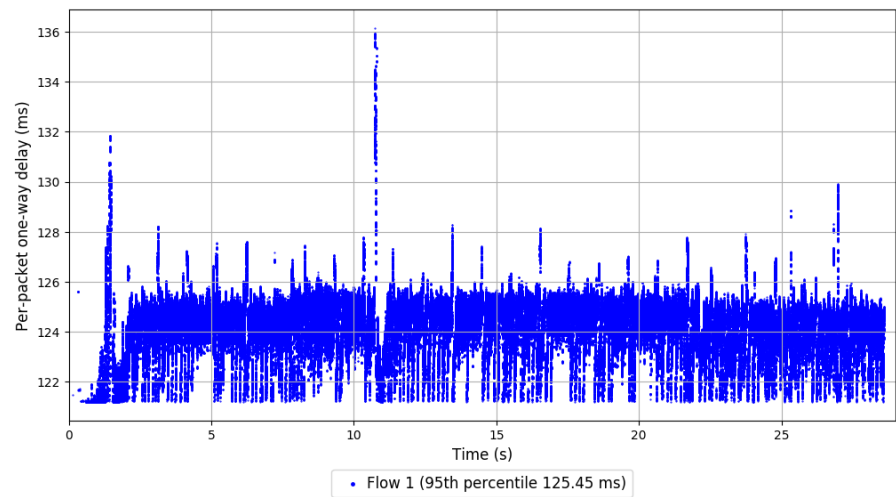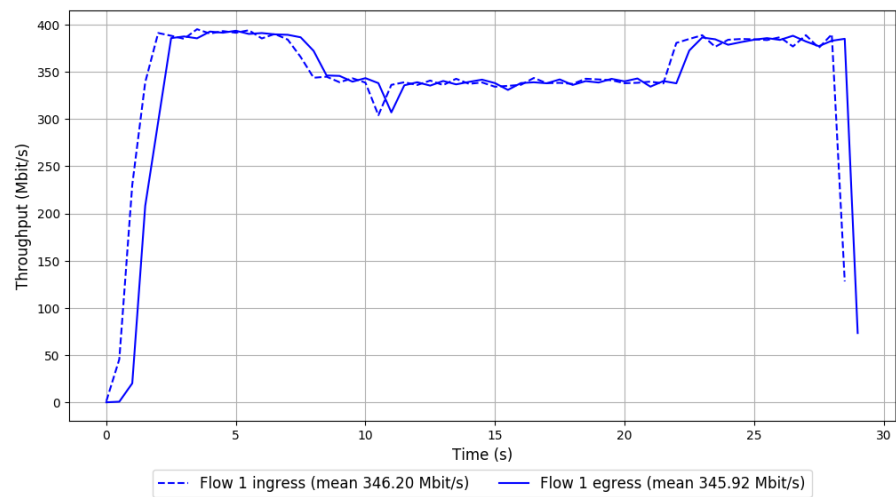

Flow 1 (95th percentile 133.73 ms)

```
Run 2: Statistics of Indigo-MusesC3

Start at: 2019-03-19 09:31:22
End at: 2019-03-19 09:31:52
Local clock offset: 0.907 ms
Remote clock offset: -28.752 ms


# Below is generated by plot.py at 2019-03-19 12:03:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 345.92 Mbit/s
95th percentile per-packet one-way delay: 125.447 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 345.92 Mbit/s
95th percentile per-packet one-way delay: 125.447 ms
Loss rate: 0.76%
```

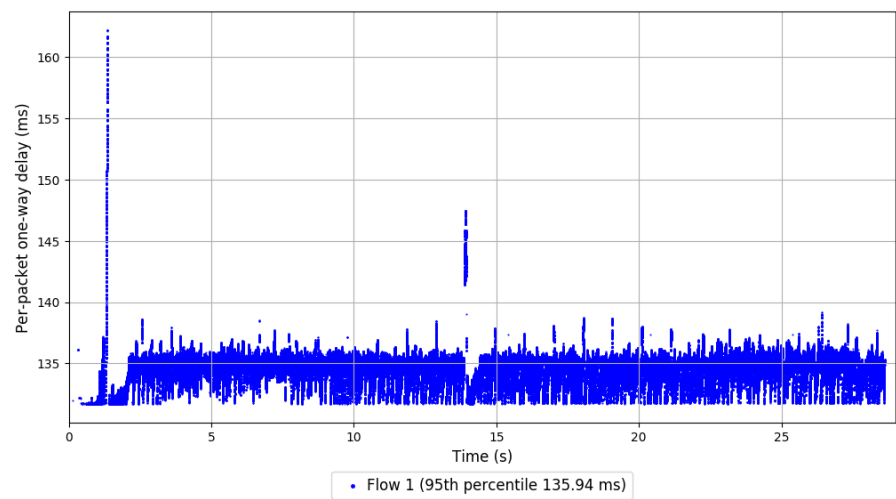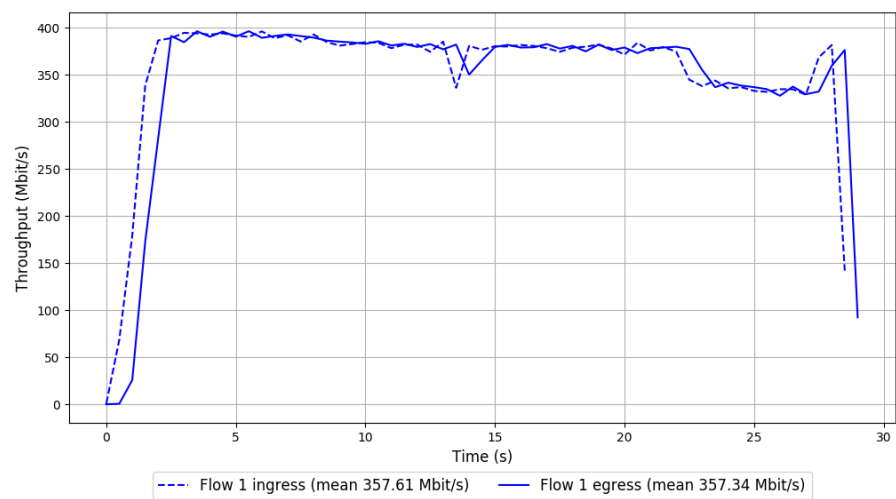Run 2: Report of Indigo-MusesC3 — Data Link

```
Run 3: Statistics of Indigo-MusesC3

Start at: 2019-03-19 10:05:17
End at: 2019-03-19 10:05:47
Local clock offset: 0.11 ms
Remote clock offset: -37.012 ms


# Below is generated by plot.py at 2019-03-19 12:04:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 357.34 Mbit/s
95th percentile per-packet one-way delay: 135.941 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 357.34 Mbit/s
95th percentile per-packet one-way delay: 135.941 ms
Loss rate: 0.76%
```

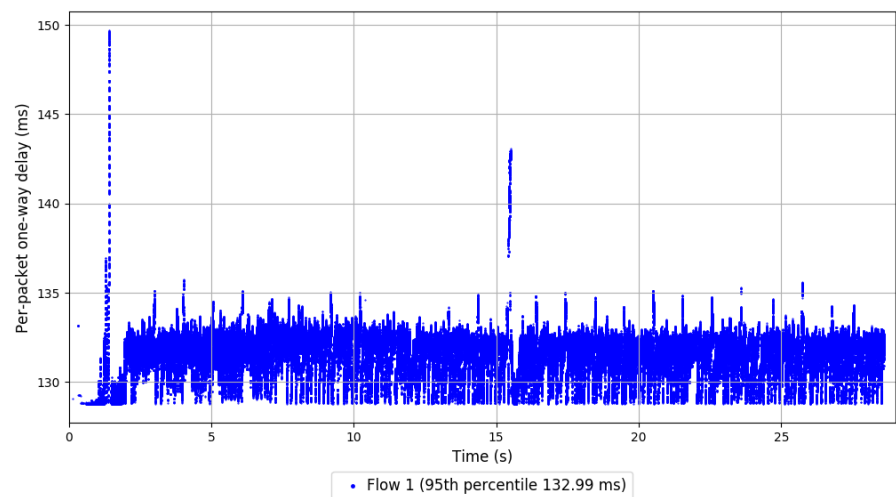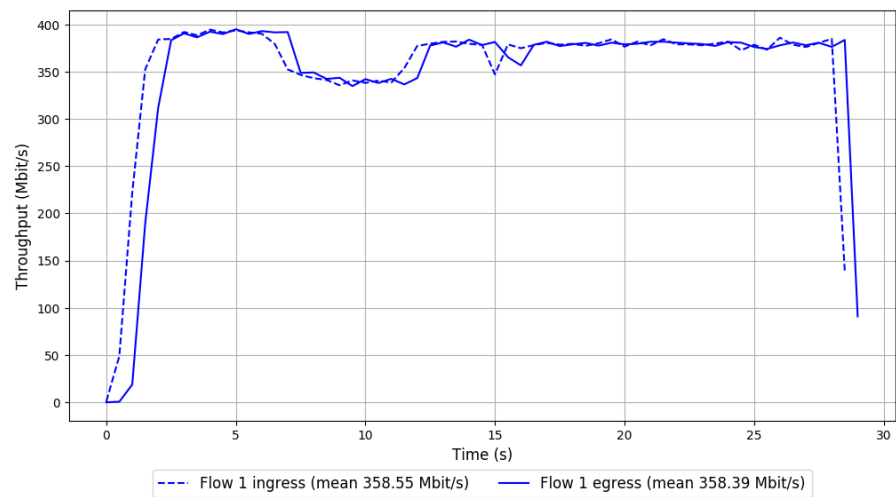Run 3: Report of Indigo-MusesC3 — Data Link

```
Run 4: Statistics of Indigo-MusesC3

Start at: 2019-03-19 10:39:14
End at: 2019-03-19 10:39:44
Local clock offset: 0.458 ms
Remote clock offset: -33.451 ms


# Below is generated by plot.py at 2019-03-19 12:04:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 358.39 Mbit/s
95th percentile per-packet one-way delay: 132.989 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 358.39 Mbit/s
95th percentile per-packet one-way delay: 132.989 ms
Loss rate: 0.73%
```

Run 4: Report of Indigo-MusesC3 — Data Link

Flow 1 ingress (mean 358.55 Mbit/s)　　Flow 1 egress (mean 358.39 Mbit/s)
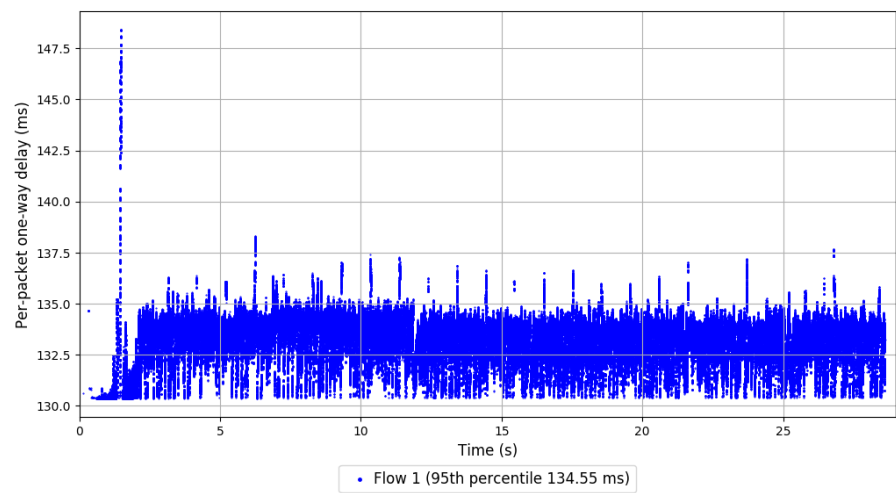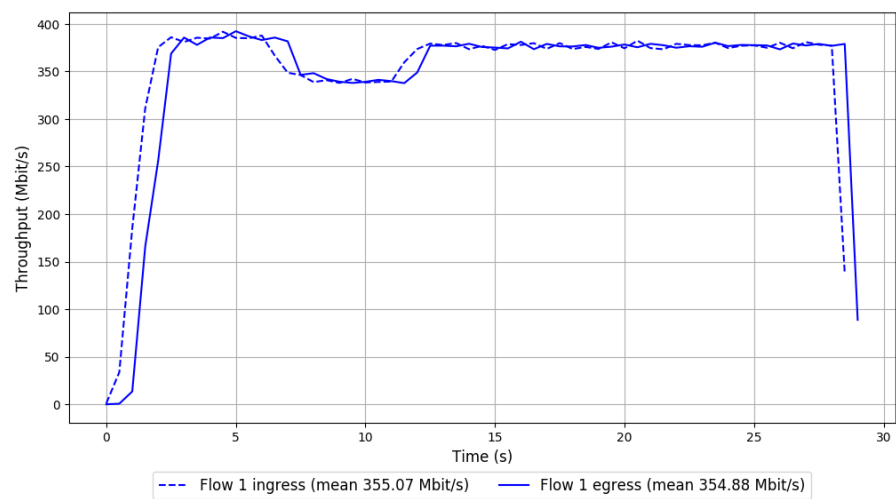

Flow 1 (95th percentile 132.99 ms)

```
Run 5: Statistics of Indigo-MusesC3

Start at: 2019-03-19 11:24:18
End at: 2019-03-19 11:24:48
Local clock offset: -0.126 ms
Remote clock offset: -35.562 ms


# Below is generated by plot.py at 2019-03-19 12:04:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 354.88 Mbit/s
95th percentile per-packet one-way delay: 134.549 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 354.88 Mbit/s
95th percentile per-packet one-way delay: 134.549 ms
Loss rate: 0.73%
```

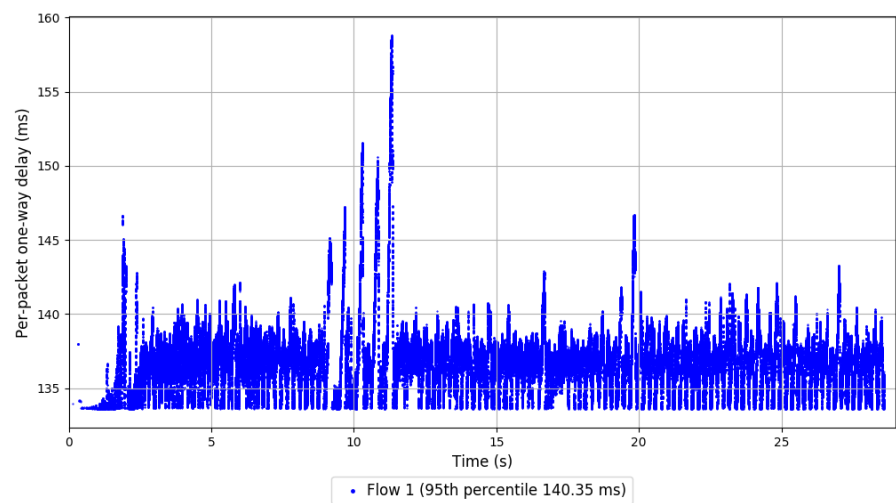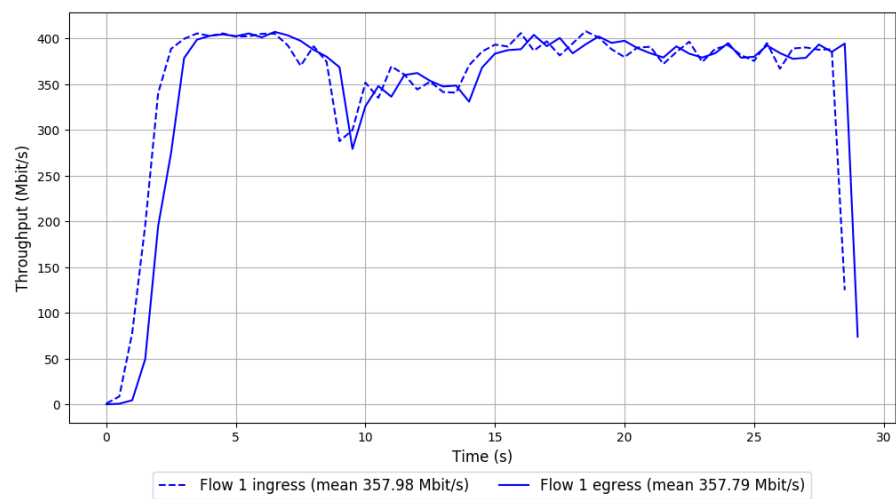## Run 5: Report of Indigo-MusesC3 — Data Link

```
Run 1: Statistics of Indigo-MusesC5

Start at: 2019-03-19 09:04:20
End at: 2019-03-19 09:04:50
Local clock offset: -0.086 ms
Remote clock offset: -38.806 ms

# Below is generated by plot.py at 2019-03-19 12:04:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 357.79 Mbit/s
95th percentile per-packet one-way delay: 140.352 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 357.79 Mbit/s
95th percentile per-packet one-way delay: 140.352 ms
Loss rate: 0.74%
```

Run 1: Report of Indigo-MusesC5 — Data Link

Flow 1 ingress (mean 357.98 Mbit/s) —— Flow 1 egress (mean 357.79 Mbit/s)
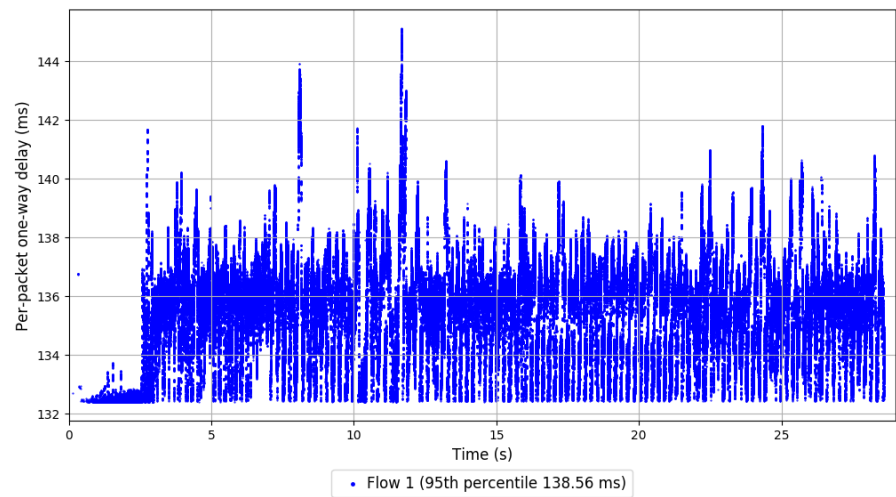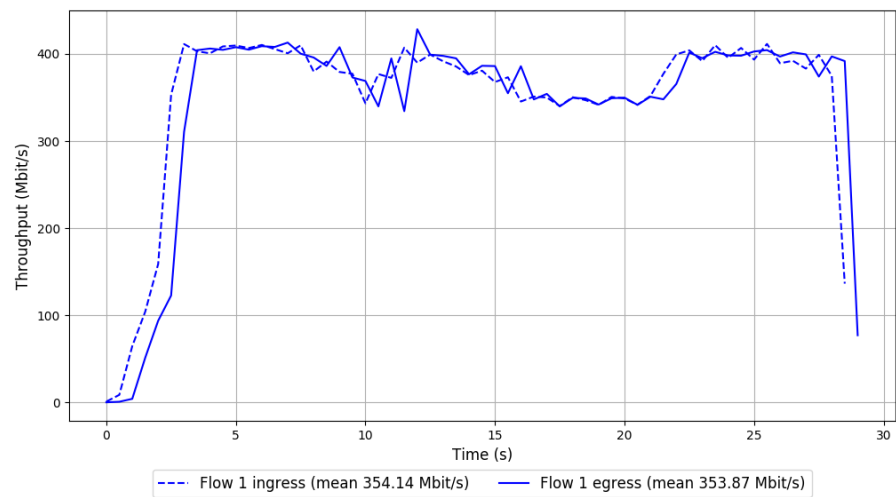

• Flow 1 (95th percentile 140.35 ms)

```
Run 2: Statistics of Indigo-MusesC5

Start at: 2019-03-19 09:38:11
End at: 2019-03-19 09:38:41
Local clock offset: 1.073 ms
Remote clock offset: -39.788 ms


# Below is generated by plot.py at 2019-03-19 12:07:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 353.87 Mbit/s
95th percentile per-packet one-way delay: 138.557 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 353.87 Mbit/s
95th percentile per-packet one-way delay: 138.557 ms
Loss rate: 0.74%
```

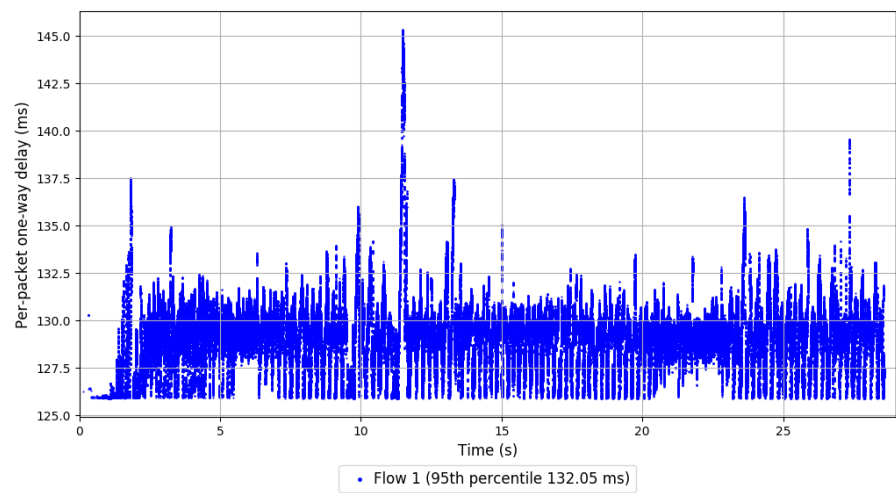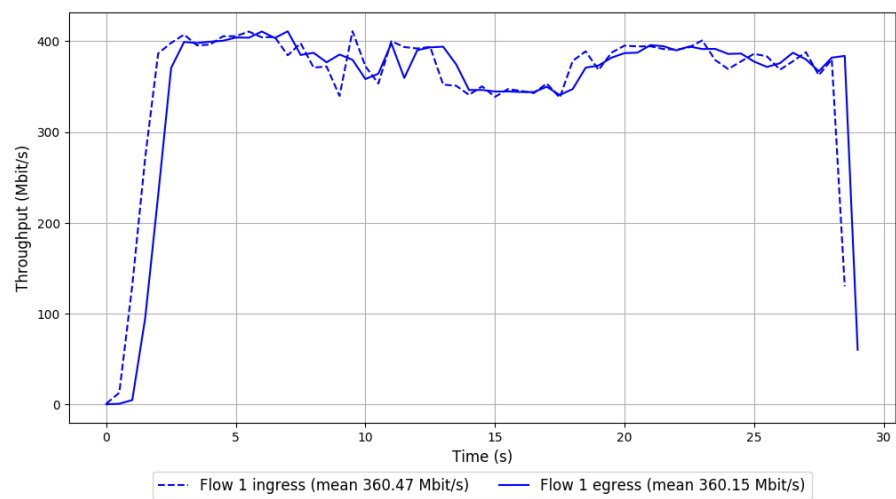Run 2: Report of Indigo-MusesC5 — Data Link

```
Run 3: Statistics of Indigo-MusesC5

Start at: 2019-03-19 10:17:33
End at: 2019-03-19 10:18:03
Local clock offset: -0.806 ms
Remote clock offset: -32.416 ms


# Below is generated by plot.py at 2019-03-19 12:07:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 360.15 Mbit/s
95th percentile per-packet one-way delay: 132.052 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 360.15 Mbit/s
95th percentile per-packet one-way delay: 132.052 ms
Loss rate: 0.76%
```

Run 3: Report of Indigo-MusesC5 — Data Link

Flow 1 ingress (mean 360.47 Mbit/s)   Flow 1 egress (mean 360.15 Mbit/s)
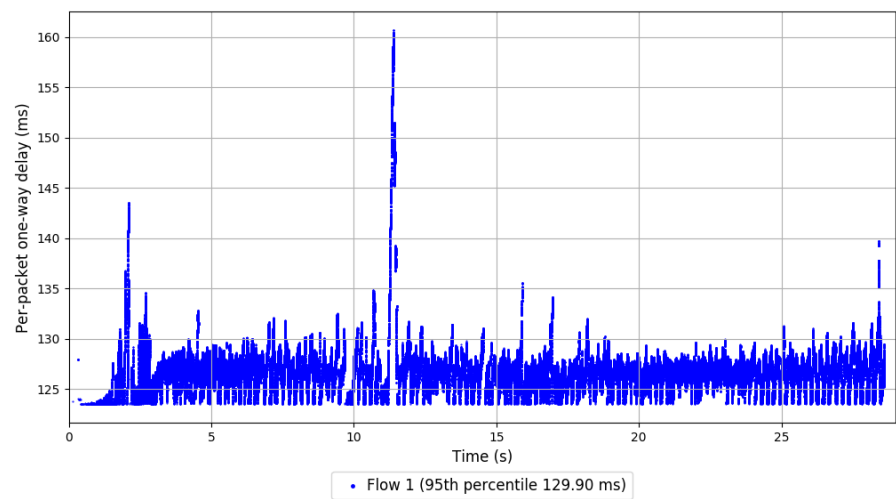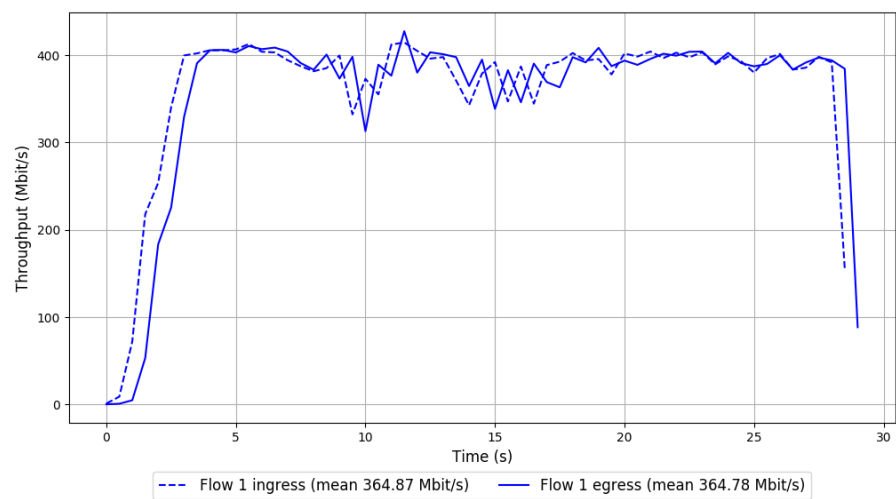

Flow 1 (95th percentile 132.05 ms)

```
Run 4: Statistics of Indigo-MusesC5

Start at: 2019-03-19 10:51:38
End at: 2019-03-19 10:52:08
Local clock offset: -0.328 ms
Remote clock offset: -31.337 ms


# Below is generated by plot.py at 2019-03-19 12:07:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 364.78 Mbit/s
95th percentile per-packet one-way delay: 129.902 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 364.78 Mbit/s
95th percentile per-packet one-way delay: 129.902 ms
Loss rate: 0.81%
```

Run 4: Report of Indigo-MusesC5 — Data Link

Flow 1 ingress (mean 364.87 Mbit/s)   Flow 1 egress (mean 364.78 Mbit/s)
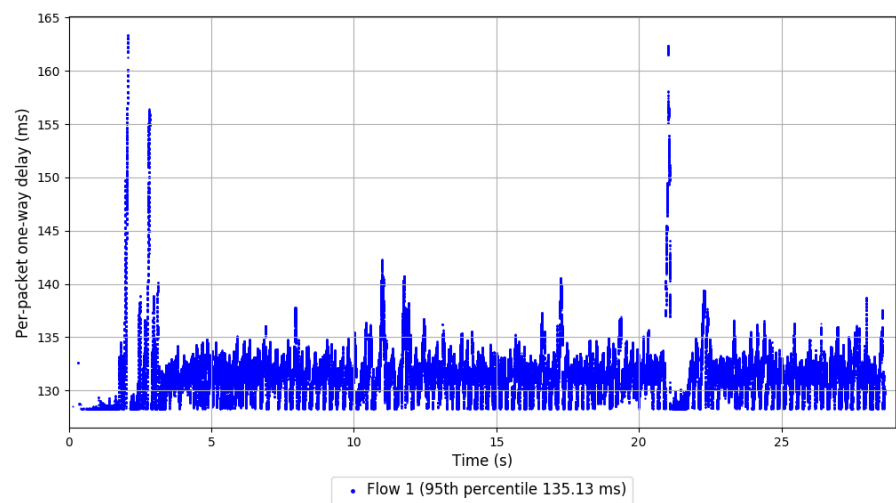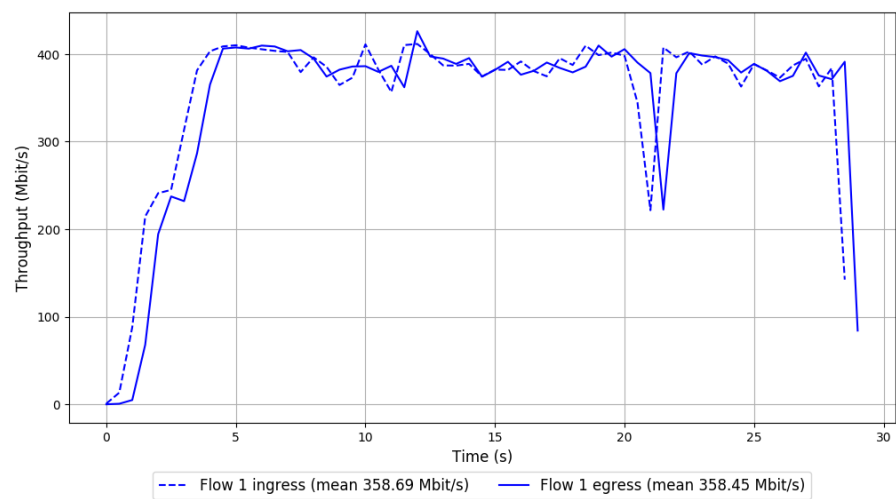

Flow 1 (95th percentile 129.90 ms)

```
Run 5: Statistics of Indigo-MusesC5

Start at: 2019-03-19 11:31:06
End at: 2019-03-19 11:31:36
Local clock offset: -0.64 ms
Remote clock offset: -34.268 ms


# Below is generated by plot.py at 2019-03-19 12:07:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 358.45 Mbit/s
95th percentile per-packet one-way delay: 135.129 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 358.45 Mbit/s
95th percentile per-packet one-way delay: 135.129 ms
Loss rate: 0.74%
```
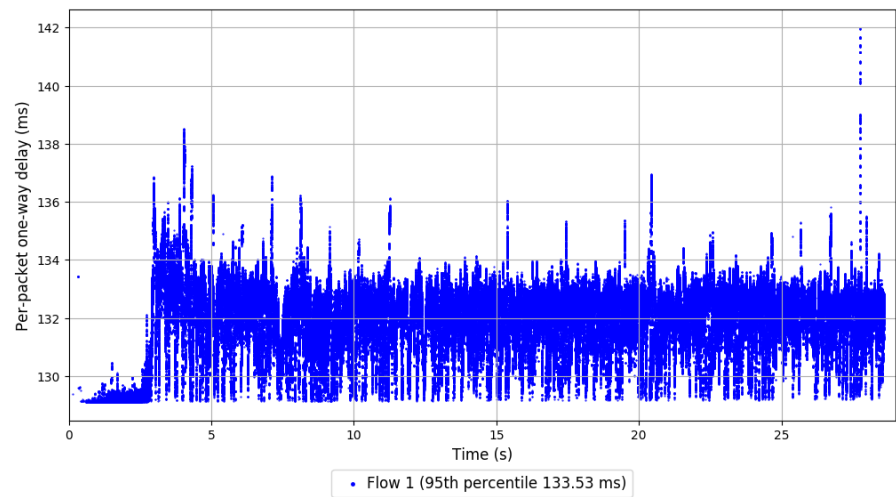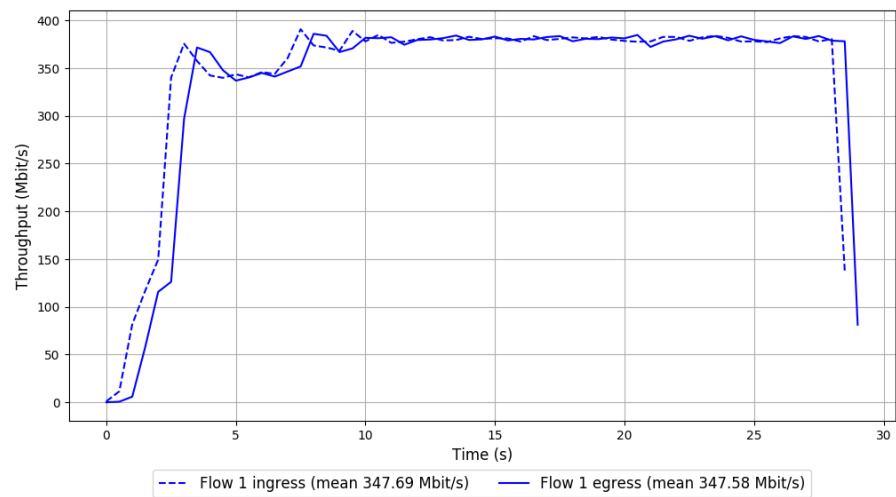
Run 5: Report of Indigo-MusesC5 — Data Link

Flow 1 ingress (mean 358.69 Mbit/s) ----   Flow 1 egress (mean 358.45 Mbit/s) ——

• Flow 1 (95th percentile 135.13 ms)

```
Run 1: Statistics of Indigo-MusesD

Start at: 2019-03-19 08:52:59
End at: 2019-03-19 08:53:29
Local clock offset: 1.202 ms
Remote clock offset: -33.714 ms


# Below is generated by plot.py at 2019-03-19 12:07:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 347.58 Mbit/s
95th percentile per-packet one-way delay: 133.525 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 347.58 Mbit/s
95th percentile per-packet one-way delay: 133.525 ms
Loss rate: 0.79%
```

Run 1: Report of Indigo-MusesD — Data Link

```
Run 2: Statistics of Indigo-MusesD

Start at: 2019-03-19 09:32:47
End at: 2019-03-19 09:33:17
Local clock offset: 1.197 ms
Remote clock offset: -32.908 ms


# Below is generated by plot.py at 2019-03-19 12:08:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 353.72 Mbit/s
95th percentile per-packet one-way delay: 131.861 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 353.72 Mbit/s
95th percentile per-packet one-way delay: 131.861 ms
Loss rate: 0.77%
```
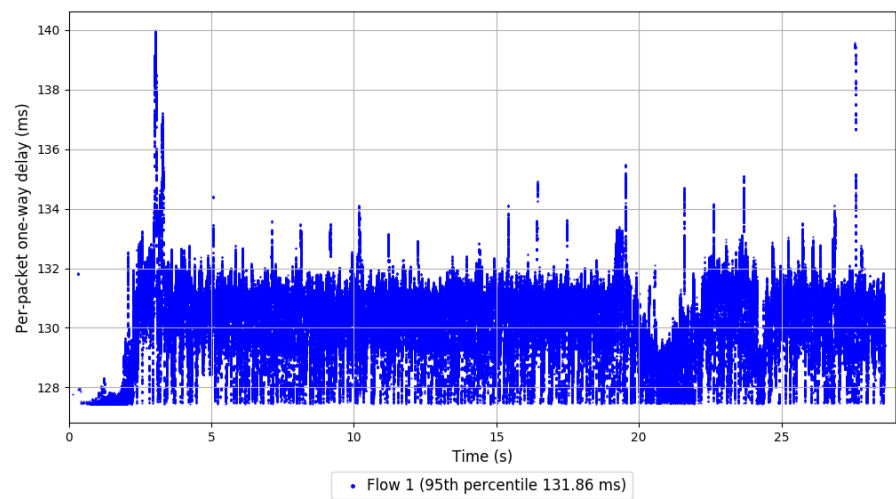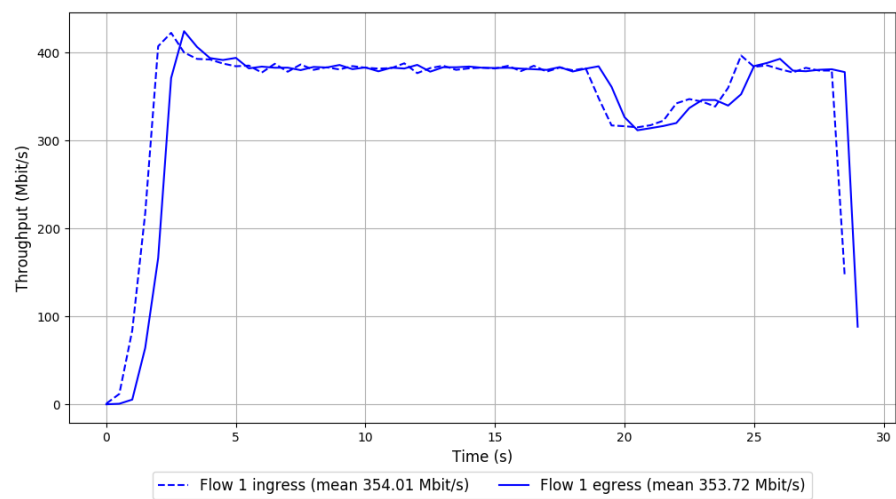
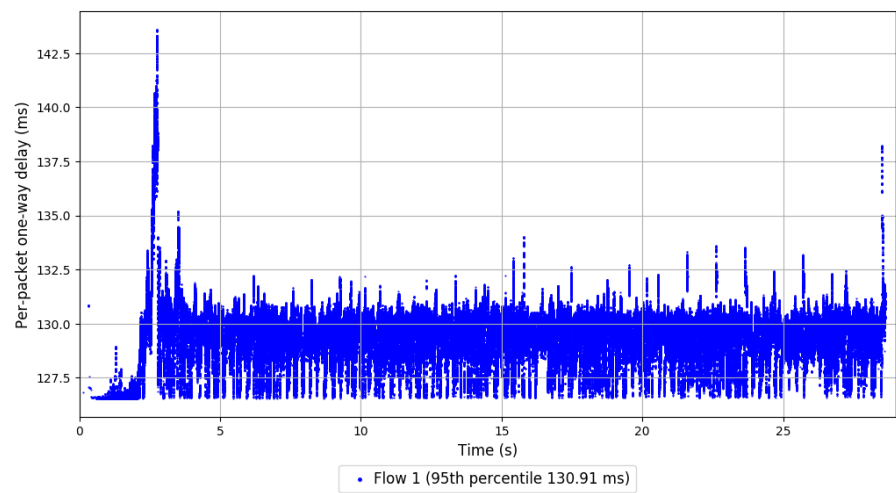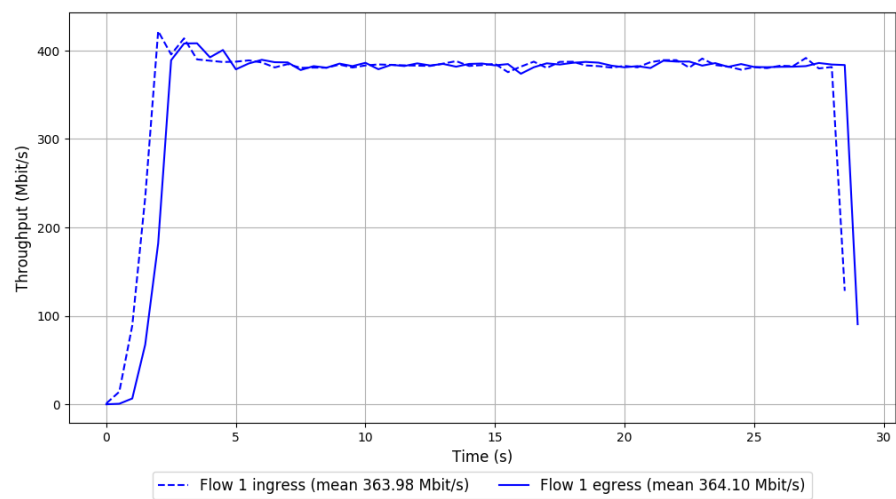# Run 2: Report of Indigo-MusesD — Data Link

```
Run 3: Statistics of Indigo-MusesD

Start at: 2019-03-19 10:06:42
End at: 2019-03-19 10:07:12
Local clock offset: -0.393 ms
Remote clock offset: -33.55 ms


# Below is generated by plot.py at 2019-03-19 12:08:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 364.10 Mbit/s
95th percentile per-packet one-way delay: 130.913 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 364.10 Mbit/s
95th percentile per-packet one-way delay: 130.913 ms
Loss rate: 0.65%
```

Run 3: Report of Indigo-MusesD — Data Link

Flow 1 ingress (mean 363.98 Mbit/s)　　Flow 1 egress (mean 364.10 Mbit/s)
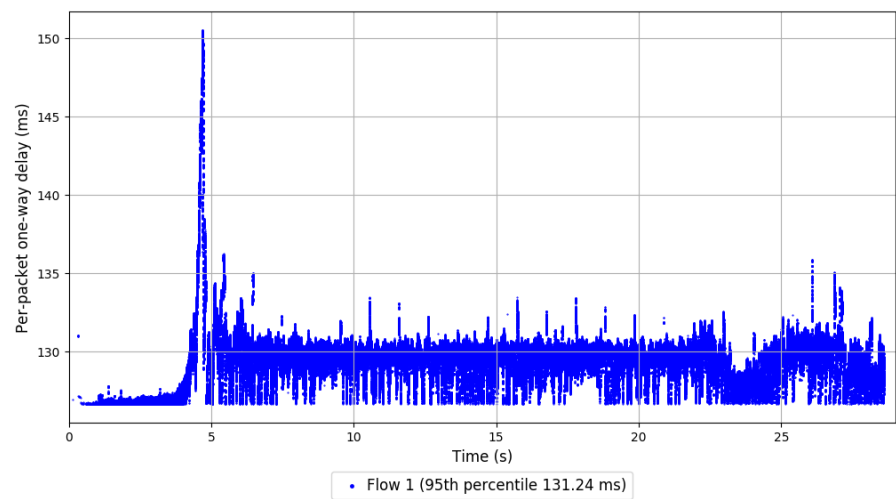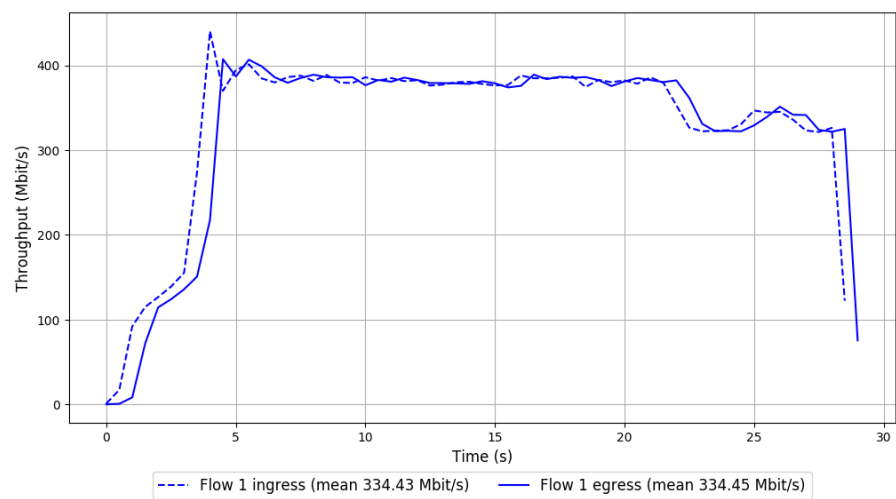

Flow 1 (95th percentile 130.91 ms)

```
Run 4: Statistics of Indigo-MusesD

Start at: 2019-03-19 10:40:40
End at: 2019-03-19 10:41:10
Local clock offset: 1.144 ms
Remote clock offset: -31.366 ms


# Below is generated by plot.py at 2019-03-19 12:08:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 334.45 Mbit/s
95th percentile per-packet one-way delay: 131.239 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 334.45 Mbit/s
95th percentile per-packet one-way delay: 131.239 ms
Loss rate: 0.68%
```
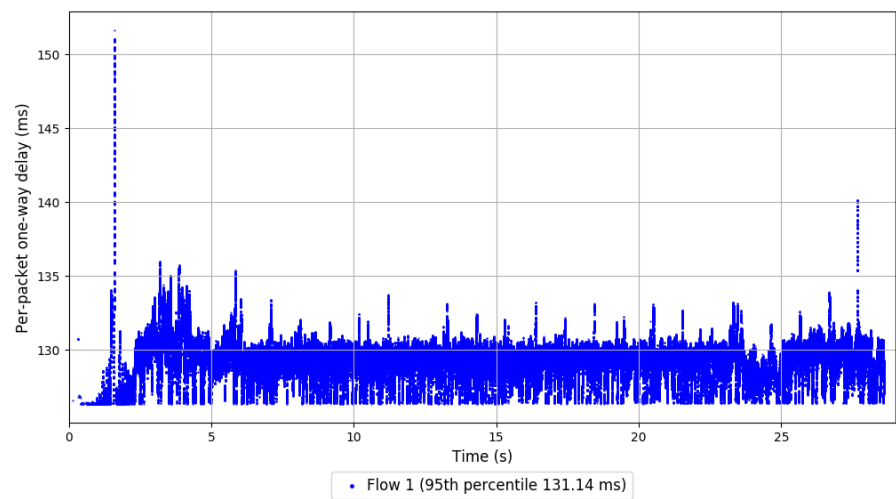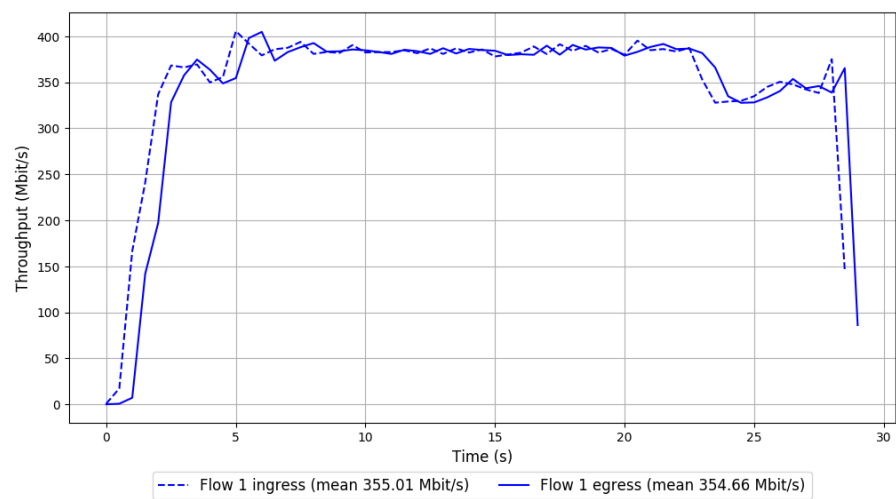
Run 4: Report of Indigo-MusesD — Data Link

Flow 1 ingress (mean 334.43 Mbit/s)   Flow 1 egress (mean 334.45 Mbit/s)

Flow 1 (95th percentile 131.24 ms)

```
Run 5: Statistics of Indigo-MusesD

Start at: 2019-03-19 11:25:44
End at: 2019-03-19 11:26:14
Local clock offset: 0.149 ms
Remote clock offset: -31.223 ms


# Below is generated by plot.py at 2019-03-19 12:11:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 354.66 Mbit/s
95th percentile per-packet one-way delay: 131.137 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 354.66 Mbit/s
95th percentile per-packet one-way delay: 131.137 ms
Loss rate: 0.78%
```

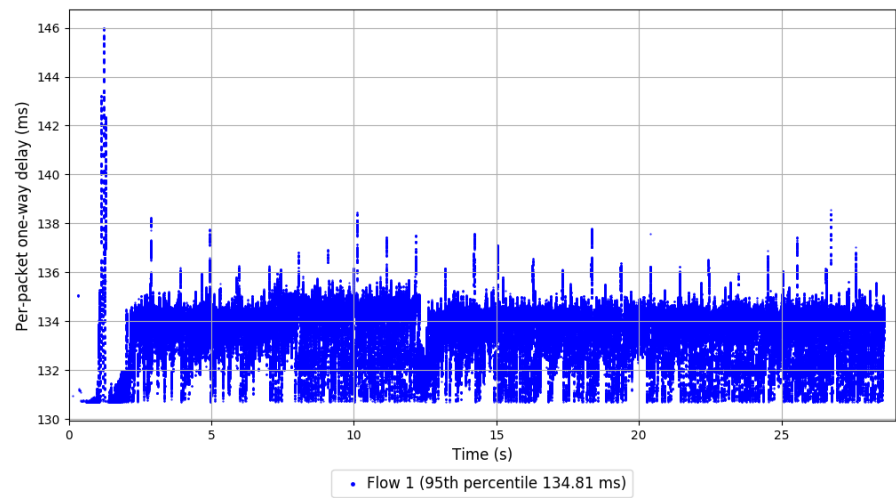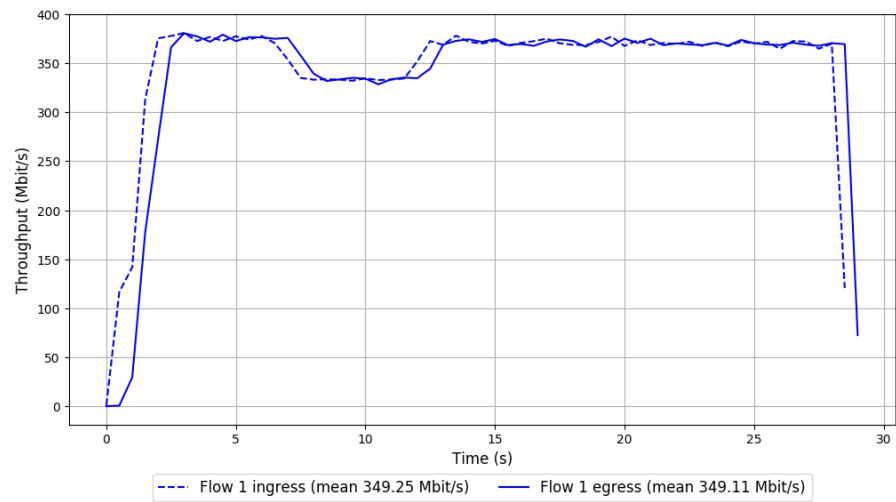# Run 5: Report of Indigo-MusesD — Data Link

```
Run 1: Statistics of Indigo-MusesT

Start at: 2019-03-19 09:10:43
End at: 2019-03-19 09:11:13
Local clock offset: 0.941 ms
Remote clock offset: -34.759 ms


# Below is generated by plot.py at 2019-03-19 12:11:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 349.11 Mbit/s
95th percentile per-packet one-way delay: 134.811 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 349.11 Mbit/s
95th percentile per-packet one-way delay: 134.811 ms
Loss rate: 0.73%
```

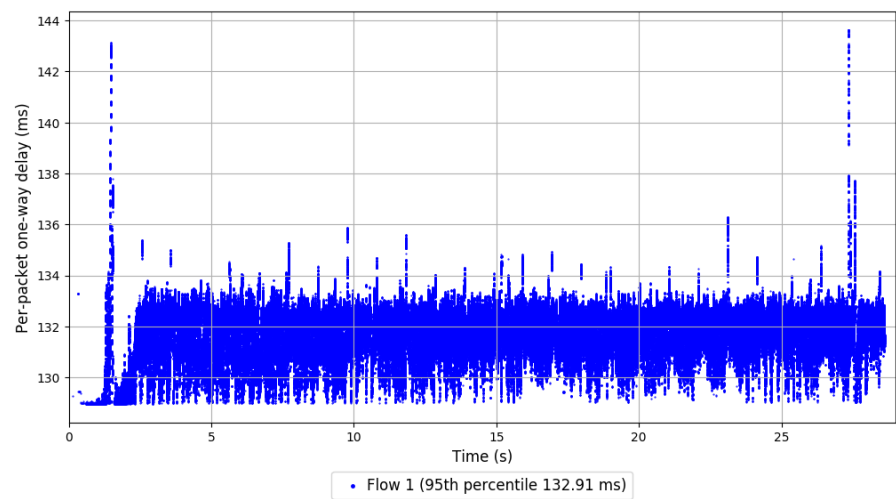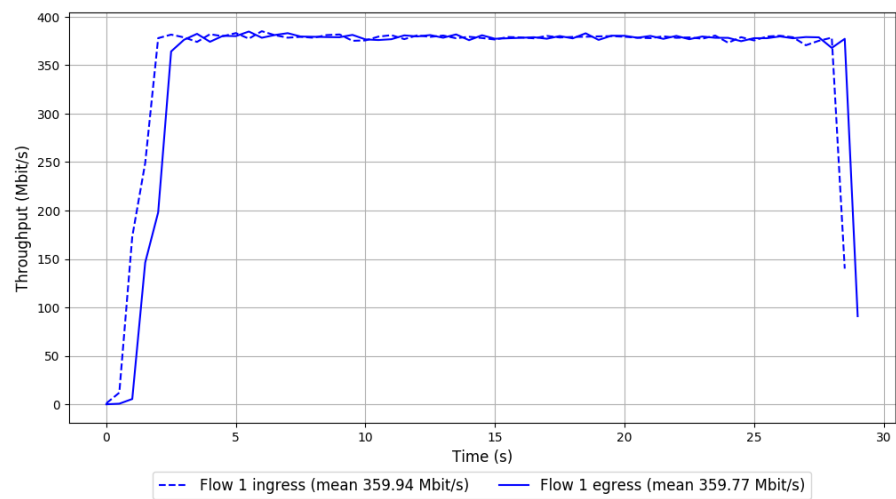Run 1: Report of Indigo-MusesT — Data Link

```
Run 2: Statistics of Indigo-MusesT

Start at: 2019-03-19 09:50:14
End at: 2019-03-19 09:50:44
Local clock offset: 1.859 ms
Remote clock offset: -34.898 ms


# Below is generated by plot.py at 2019-03-19 12:11:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 359.77 Mbit/s
95th percentile per-packet one-way delay: 132.913 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 359.77 Mbit/s
95th percentile per-packet one-way delay: 132.913 ms
Loss rate: 0.73%
```

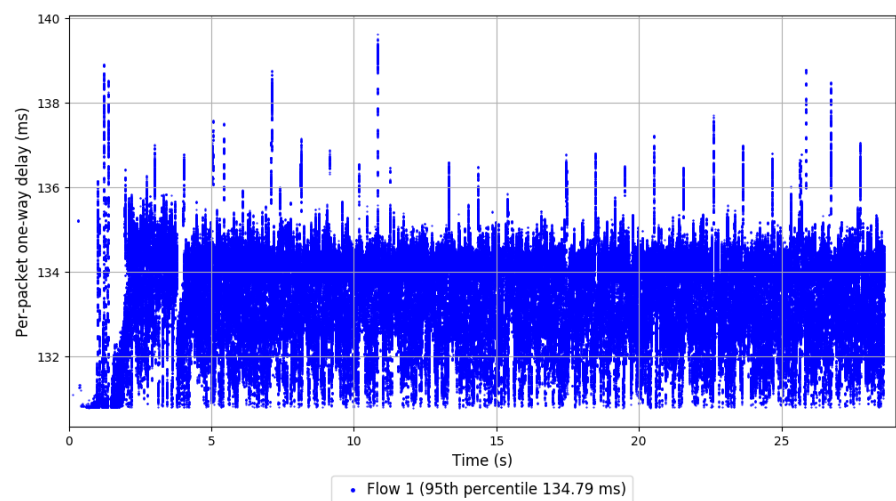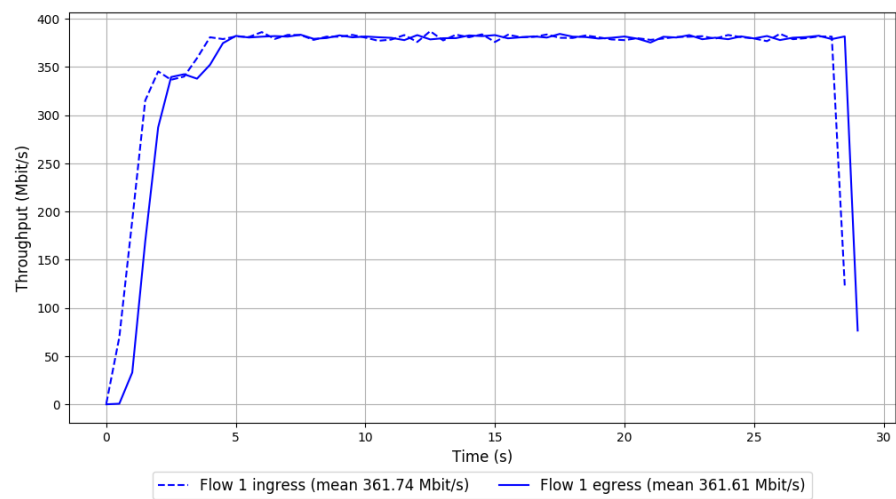Run 2: Report of Indigo-MusesT — Data Link

```
Run 3: Statistics of Indigo-MusesT

Start at: 2019-03-19 10:24:09
End at: 2019-03-19 10:24:39
Local clock offset: -0.085 ms
Remote clock offset: -36.567 ms


# Below is generated by plot.py at 2019-03-19 12:11:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 361.61 Mbit/s
95th percentile per-packet one-way delay: 134.789 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 361.61 Mbit/s
95th percentile per-packet one-way delay: 134.789 ms
Loss rate: 0.72%
```
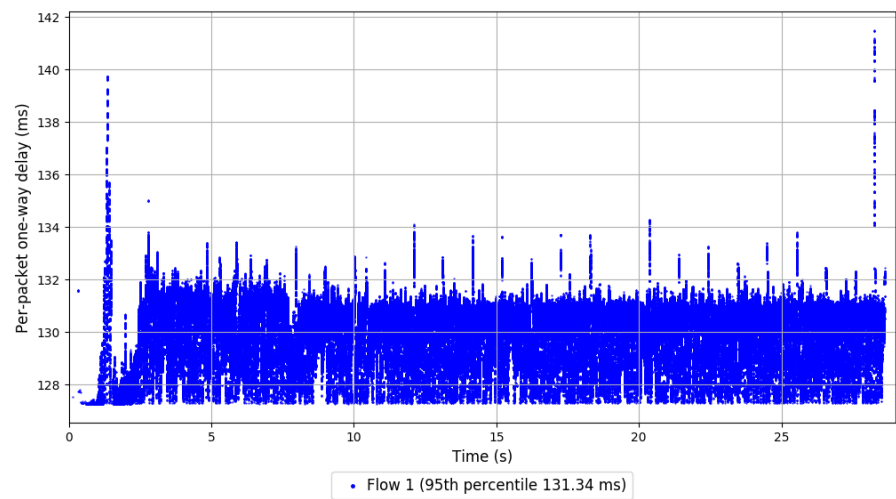
Run 3: Report of Indigo-MusesT — Data Link

Flow 1 ingress (mean 361.74 Mbit/s) --- Flow 1 egress (mean 361.61 Mbit/s)

Flow 1 (95th percentile 134.79 ms)

```
Run 4: Statistics of Indigo-MusesT

Start at: 2019-03-19 10:58:03
End at: 2019-03-19 10:58:33
Local clock offset: 0.286 ms
Remote clock offset: -34.346 ms


# Below is generated by plot.py at 2019-03-19 12:11:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 347.37 Mbit/s
95th percentile per-packet one-way delay: 131.343 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 347.37 Mbit/s
95th percentile per-packet one-way delay: 131.343 ms
Loss rate: 0.72%
```
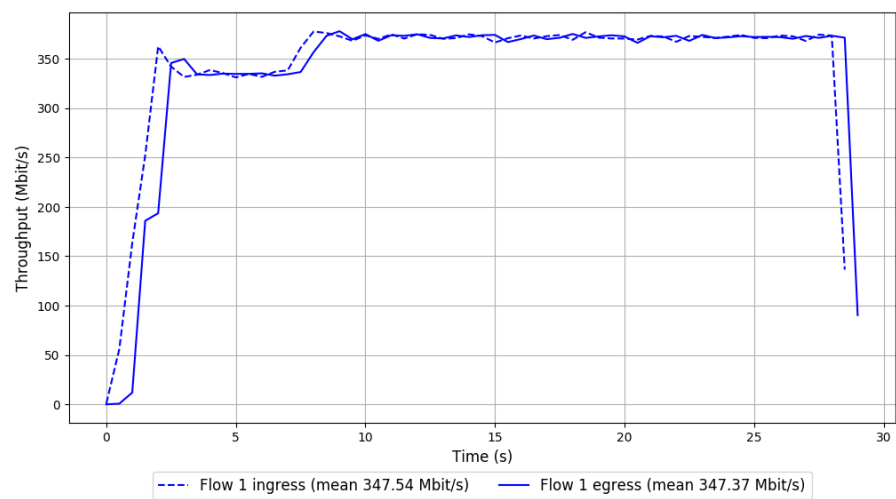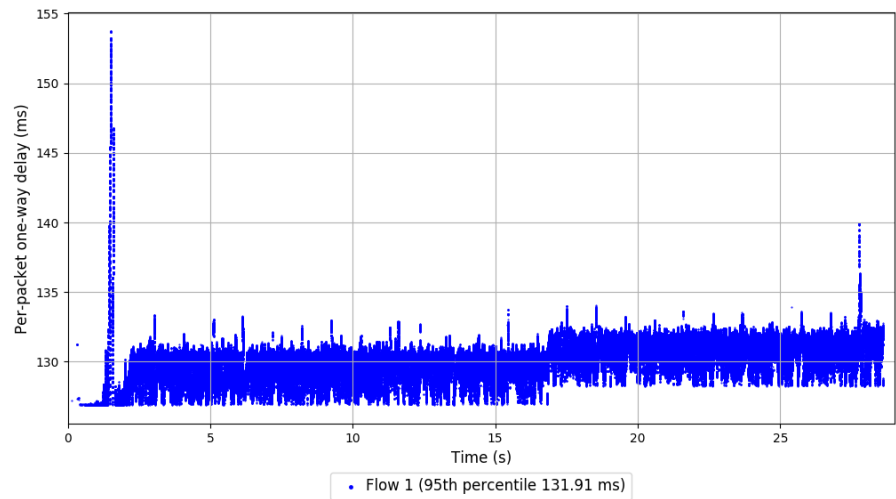
Run 4: Report of Indigo-MusesT — Data Link

Flow 1 ingress (mean 347.54 Mbit/s)   Flow 1 egress (mean 347.37 Mbit/s)

• Flow 1 (95th percentile 131.34 ms)

```
Run 5: Statistics of Indigo-MusesT

Start at: 2019-03-19 11:37:27
End at: 2019-03-19 11:37:57
Local clock offset: -0.563 ms
Remote clock offset: -33.943 ms


# Below is generated by plot.py at 2019-03-19 12:12:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 360.51 Mbit/s
95th percentile per-packet one-way delay: 131.908 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 360.51 Mbit/s
95th percentile per-packet one-way delay: 131.908 ms
Loss rate: 0.66%
```
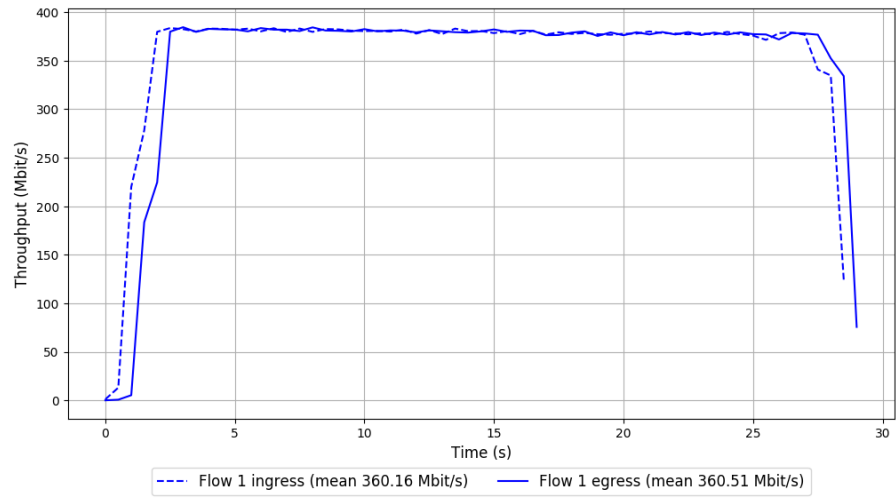
Run 5: Report of Indigo-MusesT — Data Link

Flow 1 ingress (mean 360.16 Mbit/s)   Flow 1 egress (mean 360.51 Mbit/s)
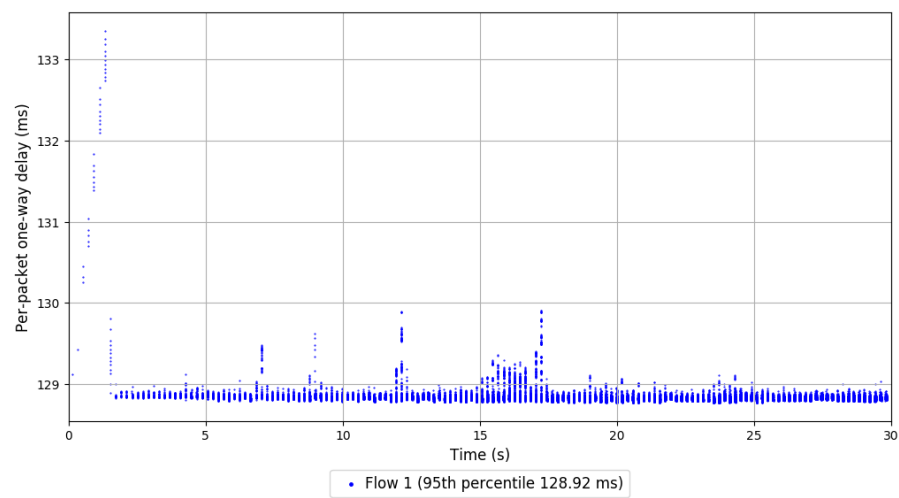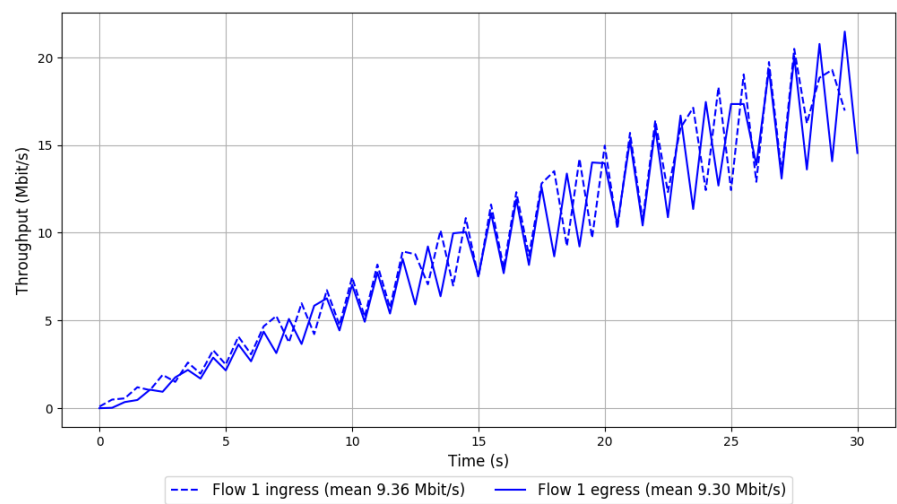

Flow 1 (95th percentile 131.91 ms)

```
Run 1: Statistics of LEDBAT

Start at: 2019-03-19 09:08:17
End at: 2019-03-19 09:08:47
Local clock offset: -0.156 ms
Remote clock offset: -33.774 ms


# Below is generated by plot.py at 2019-03-19 12:12:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.30 Mbit/s
95th percentile per-packet one-way delay: 128.922 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 9.30 Mbit/s
95th percentile per-packet one-way delay: 128.922 ms
Loss rate: 1.31%
```
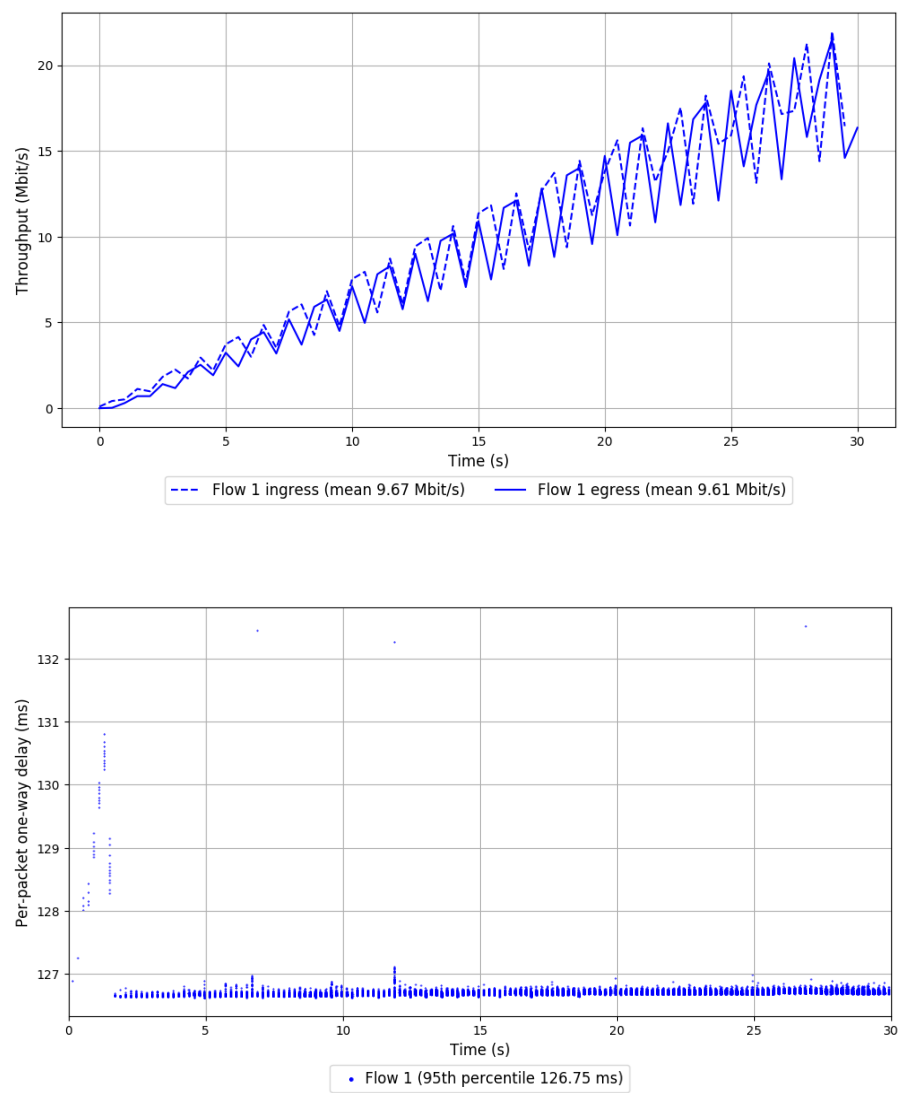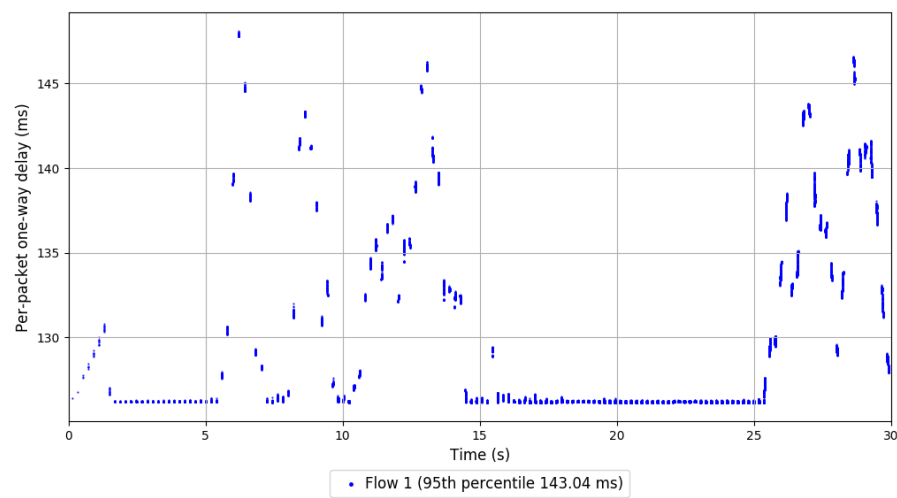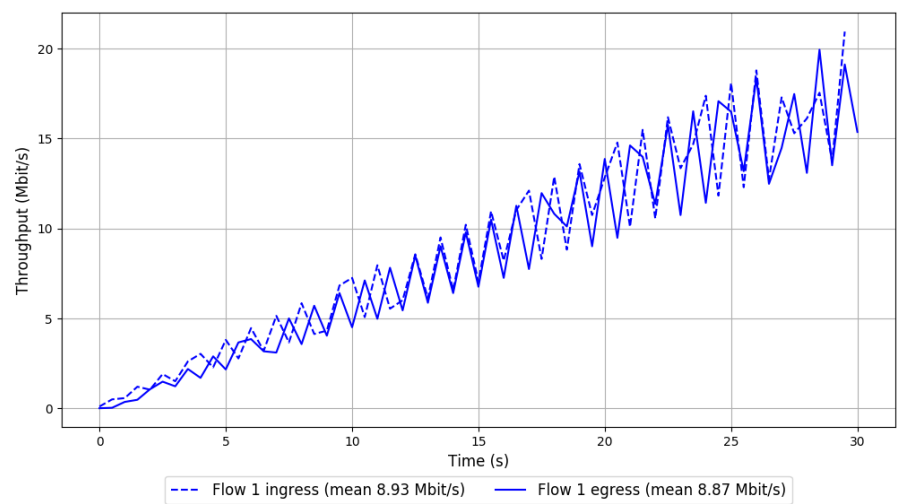
Run 1: Report of LEDBAT — Data Link

Flow 1 ingress (mean 9.36 Mbit/s) ----   Flow 1 egress (mean 9.30 Mbit/s) ——

• Flow 1 (95th percentile 128.92 ms)

```
Run 2: Statistics of LEDBAT

Start at: 2019-03-19 09:47:41
End at: 2019-03-19 09:48:11
Local clock offset: 1.585 ms
Remote clock offset: -33.119 ms


# Below is generated by plot.py at 2019-03-19 12:12:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.61 Mbit/s
95th percentile per-packet one-way delay: 126.755 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 9.61 Mbit/s
95th percentile per-packet one-way delay: 126.755 ms
Loss rate: 1.29%
```

Run 2: Report of LEDBAT — Data Link

Flow 1 ingress (mean 9.67 Mbit/s)   Flow 1 egress (mean 9.61 Mbit/s)

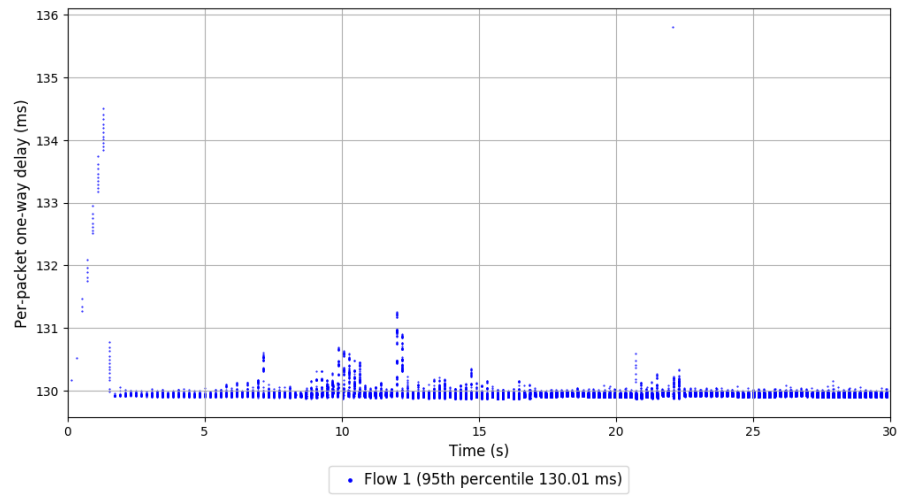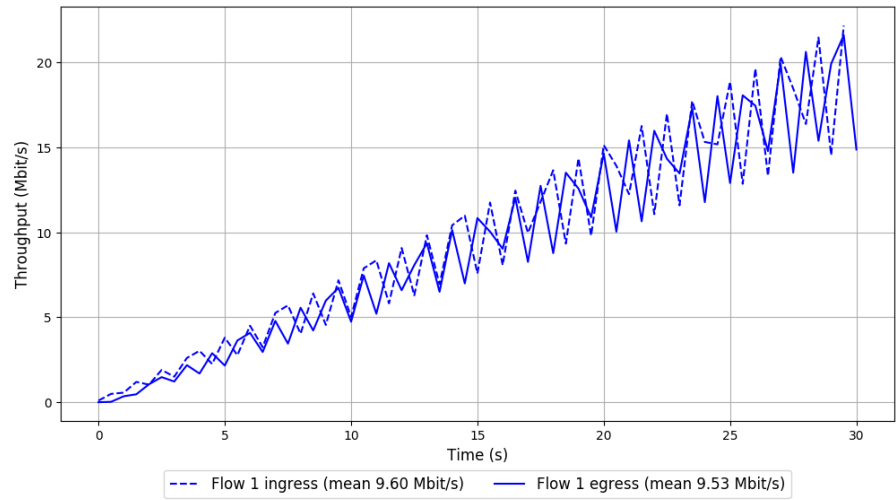Flow 1 (95th percentile 126.75 ms)

```
Run 3: Statistics of LEDBAT

Start at: 2019-03-19 10:21:43
End at: 2019-03-19 10:22:13
Local clock offset: 0.808 ms
Remote clock offset: -32.72 ms


# Below is generated by plot.py at 2019-03-19 12:12:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.87 Mbit/s
95th percentile per-packet one-way delay: 143.041 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 8.87 Mbit/s
95th percentile per-packet one-way delay: 143.041 ms
Loss rate: 1.31%
```

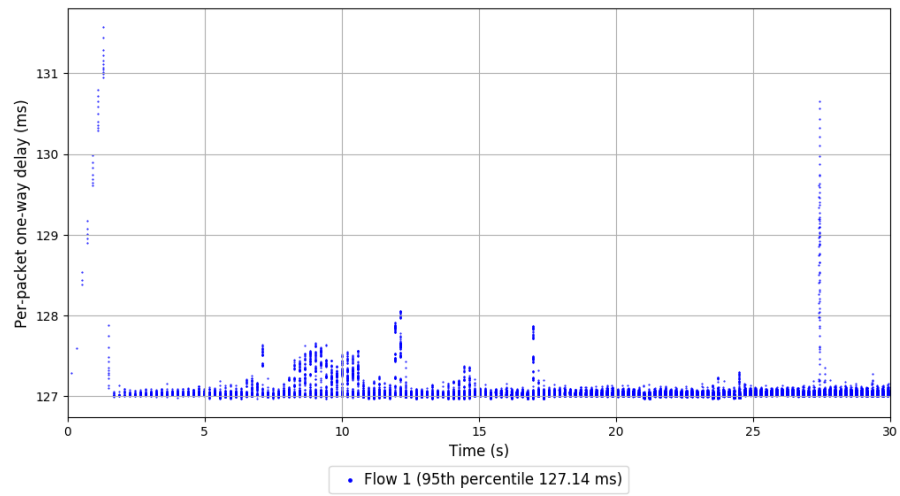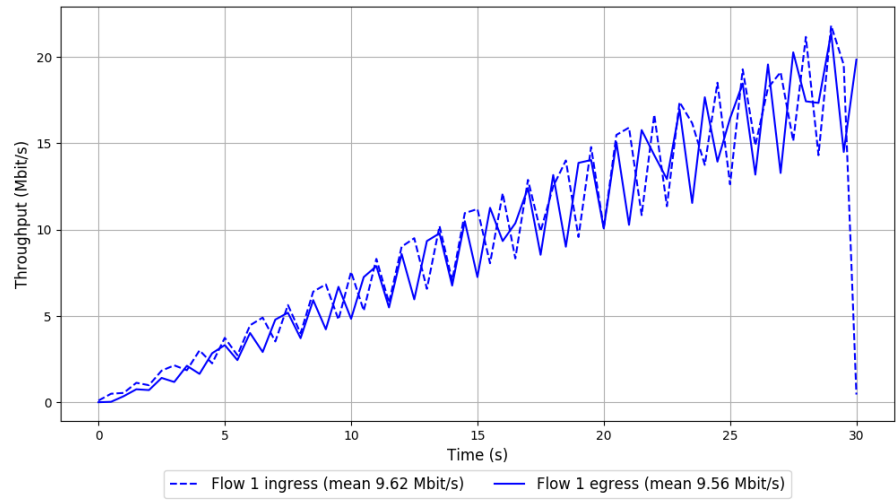Run 3: Report of LEDBAT — Data Link

```
Run 4: Statistics of LEDBAT

Start at: 2019-03-19 10:55:37
End at: 2019-03-19 10:56:07
Local clock offset: -0.039 ms
Remote clock offset: -35.546 ms

# Below is generated by plot.py at 2019-03-19 12:12:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.53 Mbit/s
95th percentile per-packet one-way delay: 130.009 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 9.53 Mbit/s
95th percentile per-packet one-way delay: 130.009 ms
Loss rate: 1.29%
```

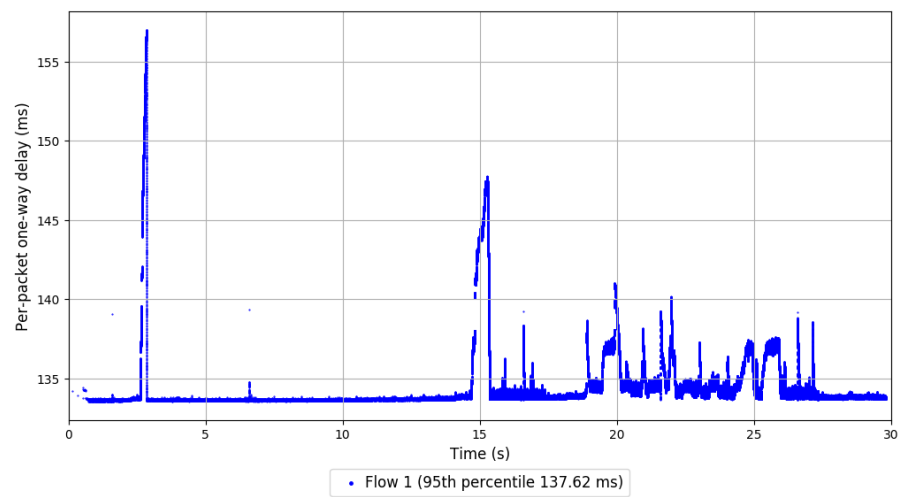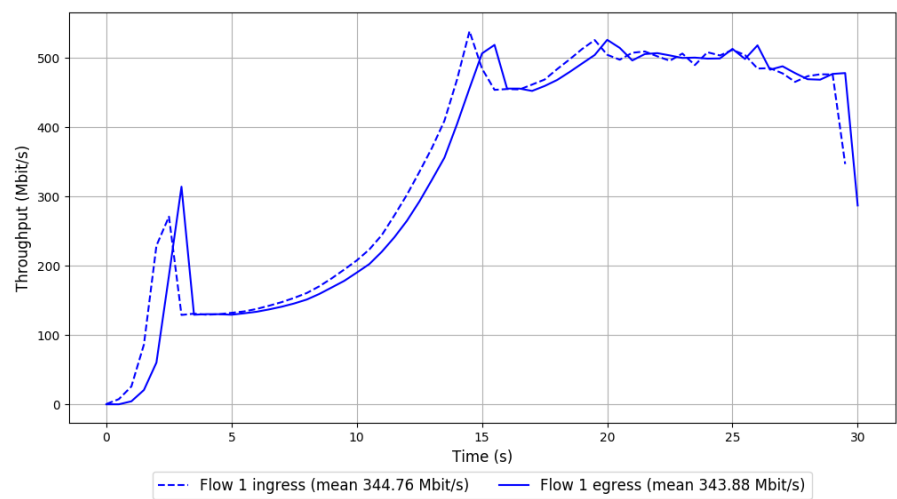# Run 4: Report of LEDBAT — Data Link

Flow 1 ingress (mean 9.60 Mbit/s)   Flow 1 egress (mean 9.53 Mbit/s)

Flow 1 (95th percentile 130.01 ms)

```
Run 5: Statistics of LEDBAT

Start at: 2019-03-19 11:35:01
End at: 2019-03-19 11:35:31
Local clock offset: -0.59 ms
Remote clock offset: -32.827 ms

# Below is generated by plot.py at 2019-03-19 12:12:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.56 Mbit/s
95th percentile per-packet one-way delay: 127.138 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 9.56 Mbit/s
95th percentile per-packet one-way delay: 127.138 ms
Loss rate: 1.29%
```
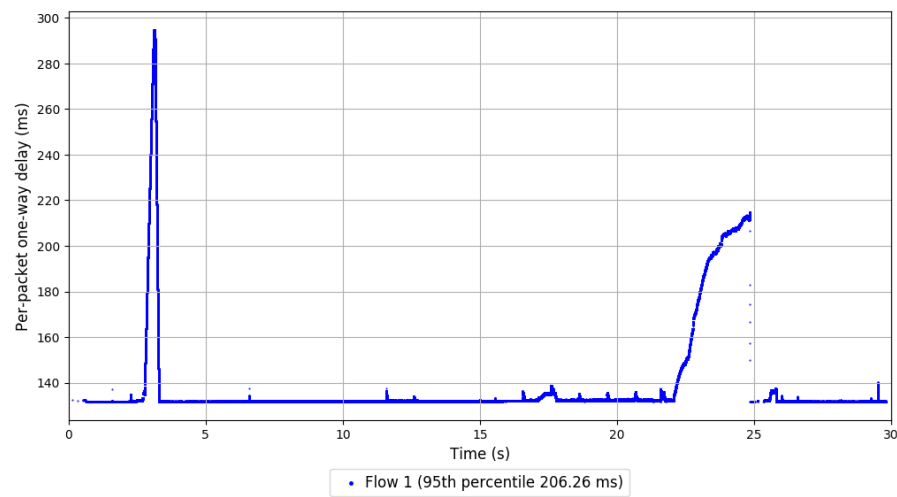
Run 5: Report of LEDBAT — Data Link

```
Run 1: Statistics of PCC-Allegro

Start at: 2019-03-19 09:17:35
End at: 2019-03-19 09:18:05
Local clock offset: -0.343 ms
Remote clock offset: -39.549 ms


# Below is generated by plot.py at 2019-03-19 12:12:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 343.88 Mbit/s
95th percentile per-packet one-way delay: 137.620 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 343.88 Mbit/s
95th percentile per-packet one-way delay: 137.620 ms
Loss rate: 0.91%
```

Run 1: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 344.76 Mbit/s) --- Flow 1 egress (mean 343.88 Mbit/s)
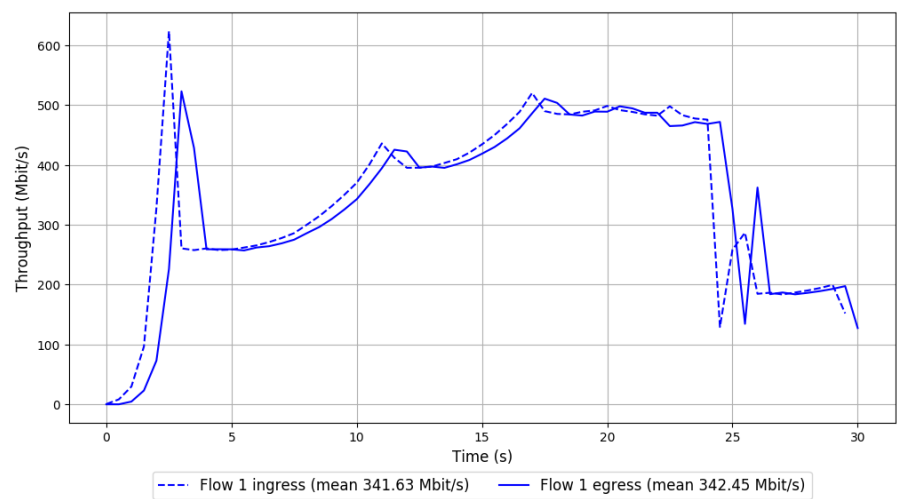

Flow 1 (95th percentile 137.62 ms)

```
Run 2: Statistics of PCC-Allegro

Start at: 2019-03-19 09:51:40
End at: 2019-03-19 09:52:10
Local clock offset: -0.055 ms
Remote clock offset: -39.461 ms


# Below is generated by plot.py at 2019-03-19 12:12:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 342.45 Mbit/s
95th percentile per-packet one-way delay: 206.258 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 342.45 Mbit/s
95th percentile per-packet one-way delay: 206.258 ms
Loss rate: 0.41%
```

Run 2: Report of PCC-Allegro — Data Link

```
Run 3: Statistics of PCC-Allegro

Start at: 2019-03-19 10:25:35
End at: 2019-03-19 10:26:05
Local clock offset: -0.805 ms
Remote clock offset: -39.062 ms


# Below is generated by plot.py at 2019-03-19 12:16:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 400.31 Mbit/s
95th percentile per-packet one-way delay: 138.675 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 400.31 Mbit/s
95th percentile per-packet one-way delay: 138.675 ms
Loss rate: 0.87%
```
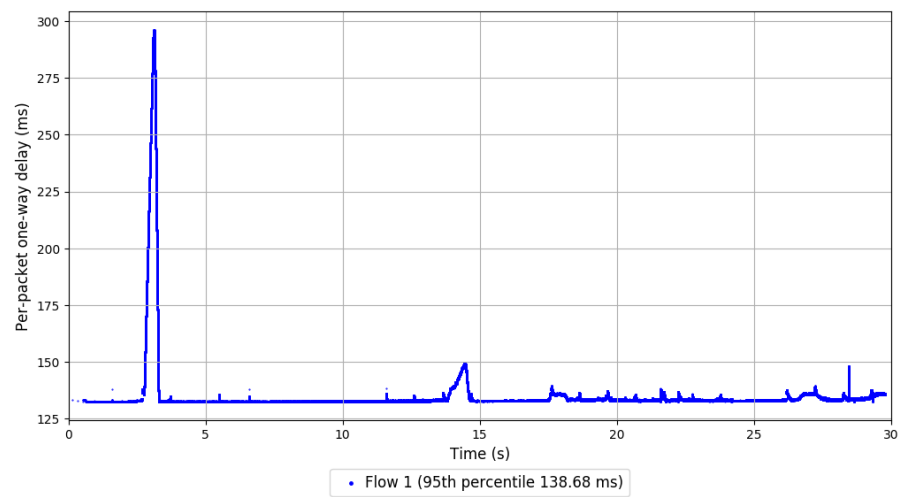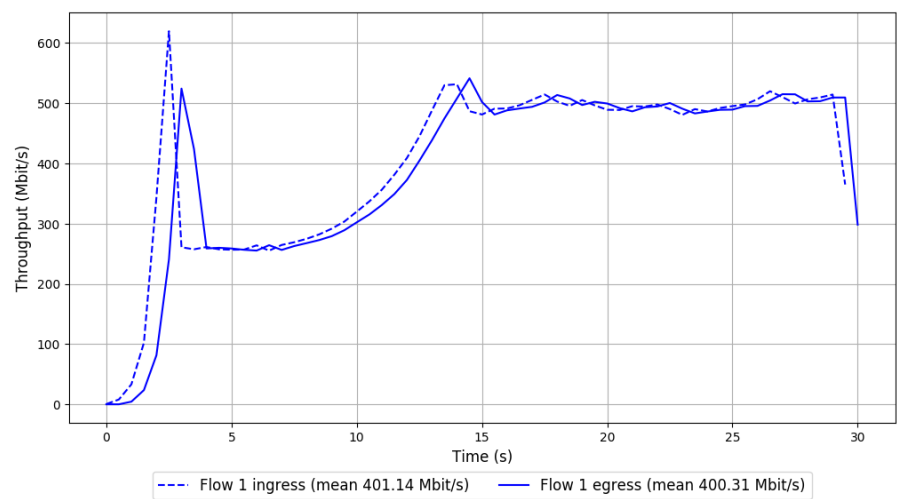
Run 3: Report of PCC-Allegro — Data Link

```
Run 4: Statistics of PCC-Allegro

Start at: 2019-03-19 10:59:28
End at: 2019-03-19 10:59:58
Local clock offset: 1.865 ms
Remote clock offset: -31.563 ms


# Below is generated by plot.py at 2019-03-19 12:16:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 377.18 Mbit/s
95th percentile per-packet one-way delay: 238.874 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 377.18 Mbit/s
95th percentile per-packet one-way delay: 238.874 ms
Loss rate: 0.24%
```
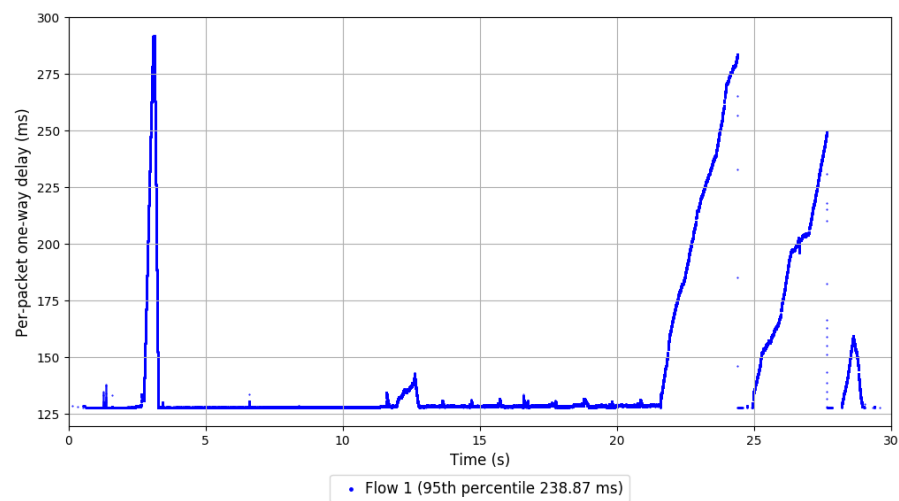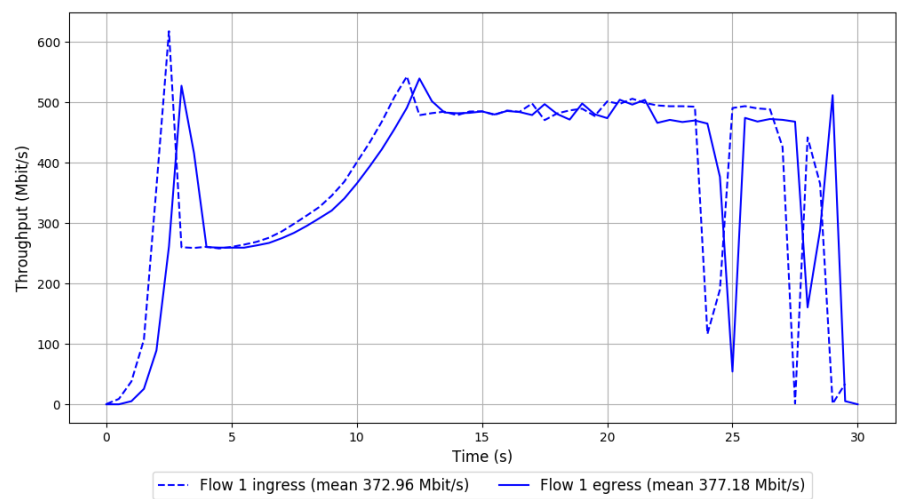
Run 4: Report of PCC-Allegro — Data Link

```
Run 5: Statistics of PCC-Allegro

Start at: 2019-03-19 11:38:53
End at: 2019-03-19 11:39:23
Local clock offset: -0.157 ms
Remote clock offset: -32.38 ms


# Below is generated by plot.py at 2019-03-19 12:16:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 404.95 Mbit/s
95th percentile per-packet one-way delay: 134.598 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 404.95 Mbit/s
95th percentile per-packet one-way delay: 134.598 ms
Loss rate: 0.81%
```
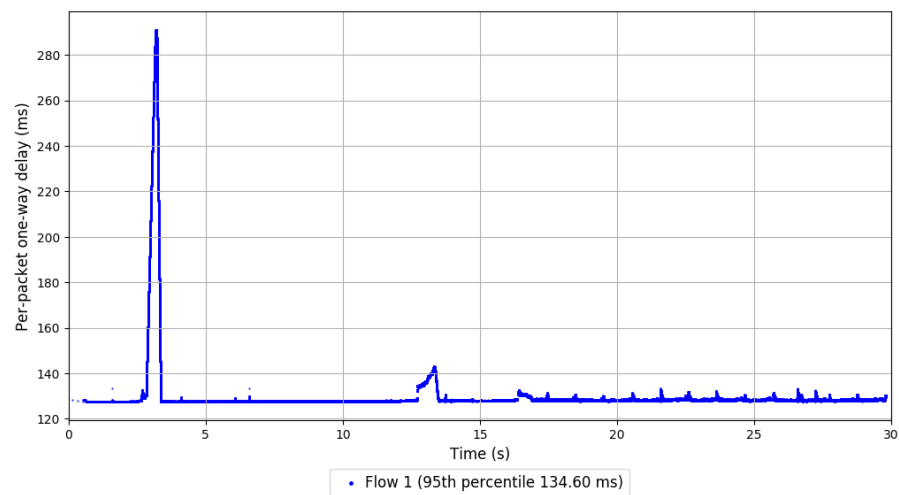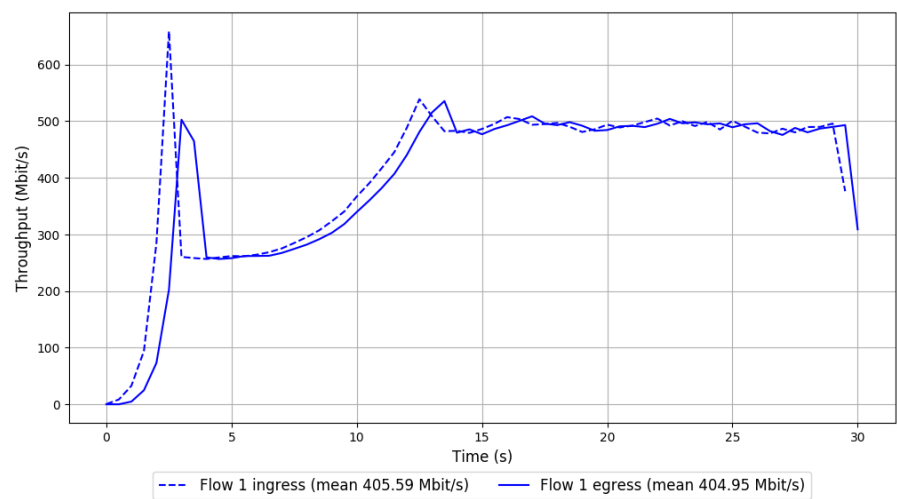
Run 5: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 405.59 Mbit/s) ——— Flow 1 egress (mean 404.95 Mbit/s)
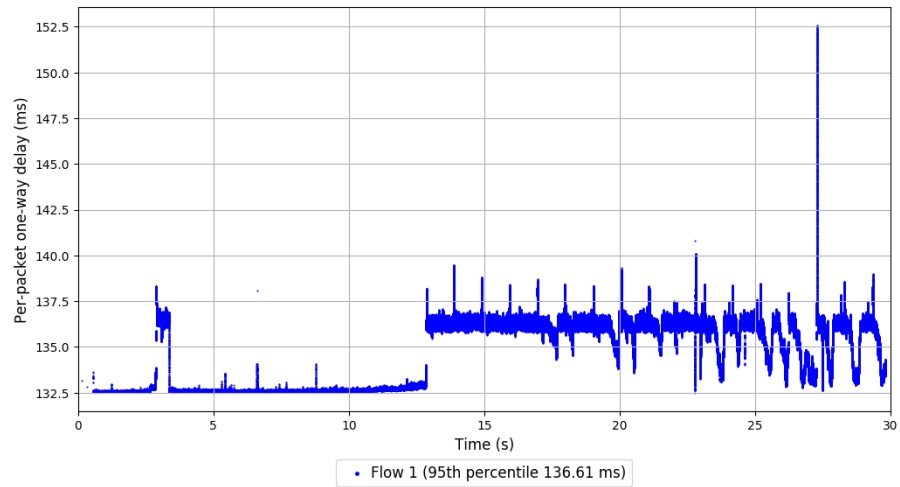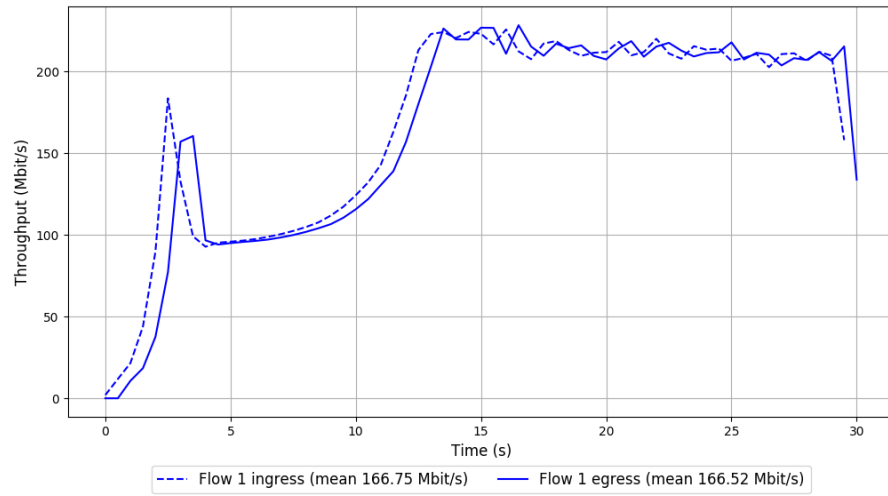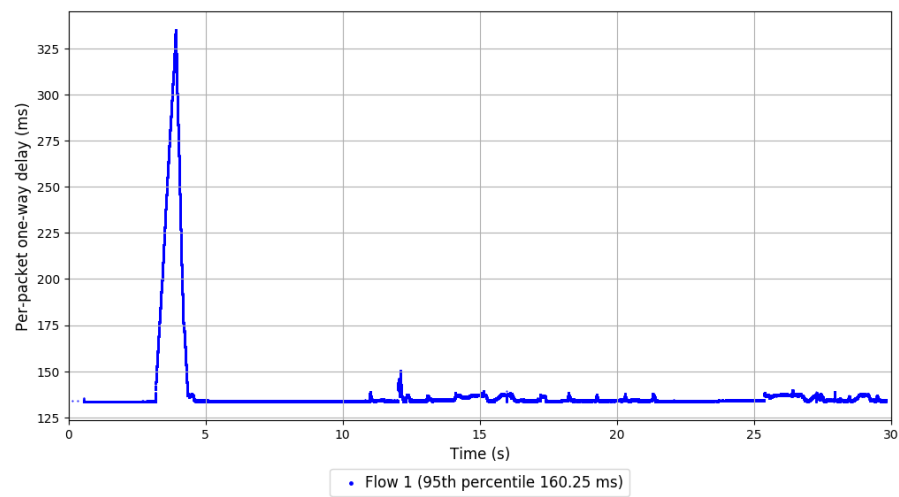

• Flow 1 (95th percentile 134.60 ms)

```
Run 1: Statistics of PCC-Expr

Start at: 2019-03-19 08:55:35
End at: 2019-03-19 08:56:05
Local clock offset: 1.044 ms
Remote clock offset: -38.147 ms

# Below is generated by plot.py at 2019-03-19 12:16:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 166.52 Mbit/s
95th percentile per-packet one-way delay: 136.609 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 166.52 Mbit/s
95th percentile per-packet one-way delay: 136.609 ms
Loss rate: 0.78%
```
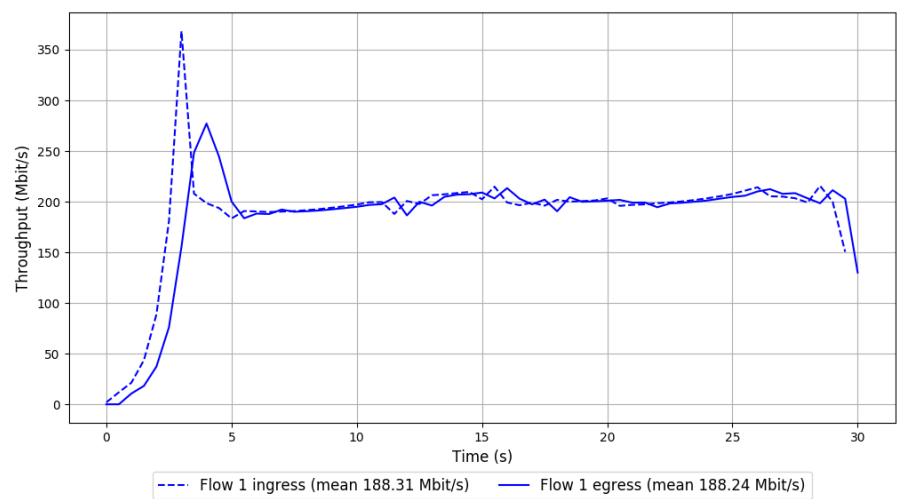
Run 1: Report of PCC-Expr — Data Link

```
Run 2: Statistics of PCC-Expr

Start at: 2019-03-19 09:35:21
End at: 2019-03-19 09:35:51
Local clock offset: 2.561 ms
Remote clock offset: -38.215 ms


# Below is generated by plot.py at 2019-03-19 12:16:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 188.24 Mbit/s
95th percentile per-packet one-way delay: 160.255 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 188.24 Mbit/s
95th percentile per-packet one-way delay: 160.255 ms
Loss rate: 0.68%
```
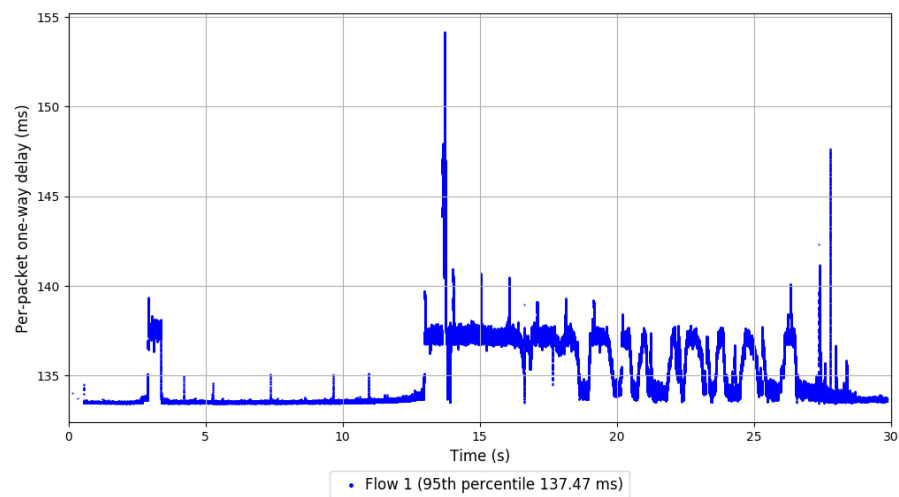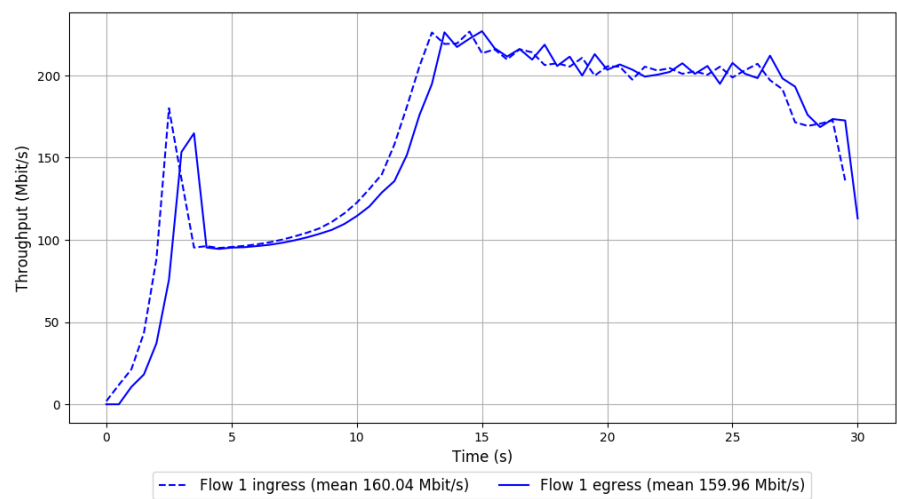
Run 2: Report of PCC-Expr — Data Link

```
Run 3: Statistics of PCC-Expr

Start at: 2019-03-19 10:09:18
End at: 2019-03-19 10:09:48
Local clock offset: -0.29 ms
Remote clock offset: -38.418 ms


# Below is generated by plot.py at 2019-03-19 12:16:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 159.96 Mbit/s
95th percentile per-packet one-way delay: 137.466 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 159.96 Mbit/s
95th percentile per-packet one-way delay: 137.466 ms
Loss rate: 0.70%
```

Run 3: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 160.04 Mbit/s) — — — Flow 1 egress (mean 159.96 Mbit/s)
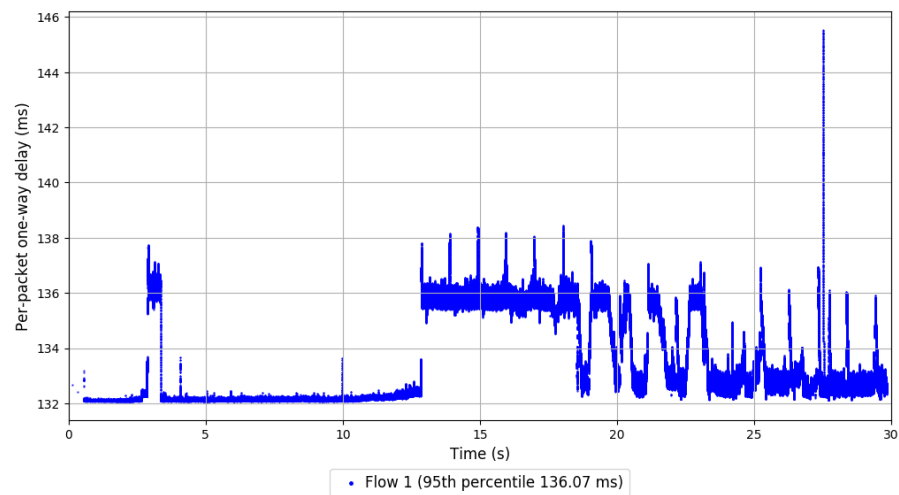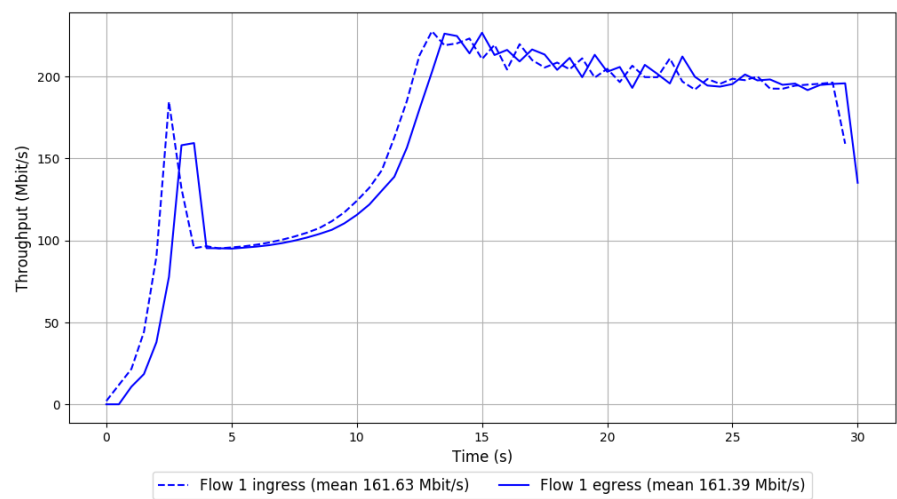

Flow 1 (95th percentile 137.47 ms)

```
Run 4: Statistics of PCC-Expr

Start at: 2019-03-19 10:48:41
End at: 2019-03-19 10:49:11
Local clock offset: 0.396 ms
Remote clock offset: -39.362 ms

# Below is generated by plot.py at 2019-03-19 12:16:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 161.39 Mbit/s
95th percentile per-packet one-way delay: 136.073 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 161.39 Mbit/s
95th percentile per-packet one-way delay: 136.073 ms
Loss rate: 0.79%
```
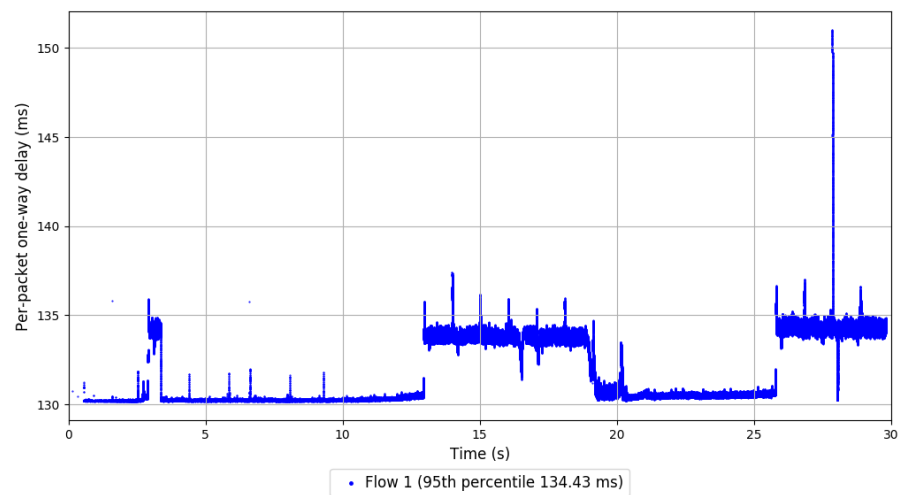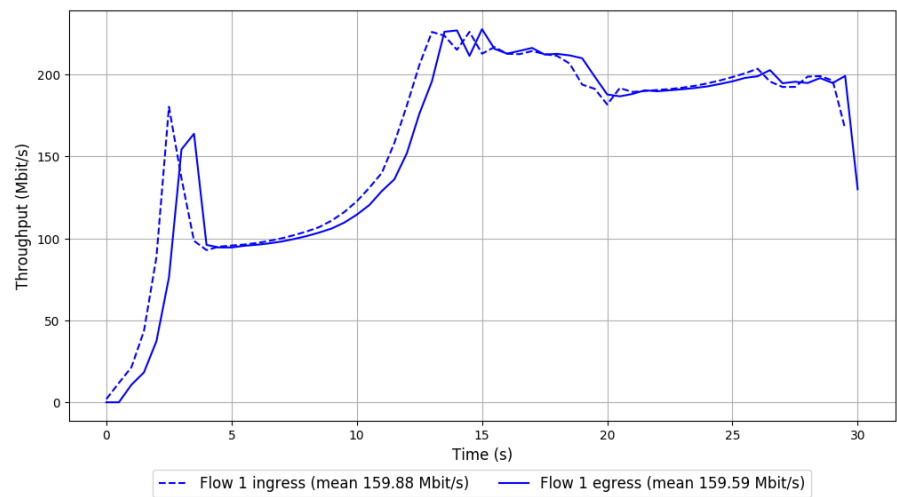
Run 4: Report of PCC-Expr — Data Link

```
Run 5: Statistics of PCC-Expr

Start at: 2019-03-19 11:28:18
End at: 2019-03-19 11:28:48
Local clock offset: 0.692 ms
Remote clock offset: -34.392 ms


# Below is generated by plot.py at 2019-03-19 12:16:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 159.59 Mbit/s
95th percentile per-packet one-way delay: 134.427 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 159.59 Mbit/s
95th percentile per-packet one-way delay: 134.427 ms
Loss rate: 0.93%
```

Run 5: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 159.88 Mbit/s)   Flow 1 egress (mean 159.59 Mbit/s)
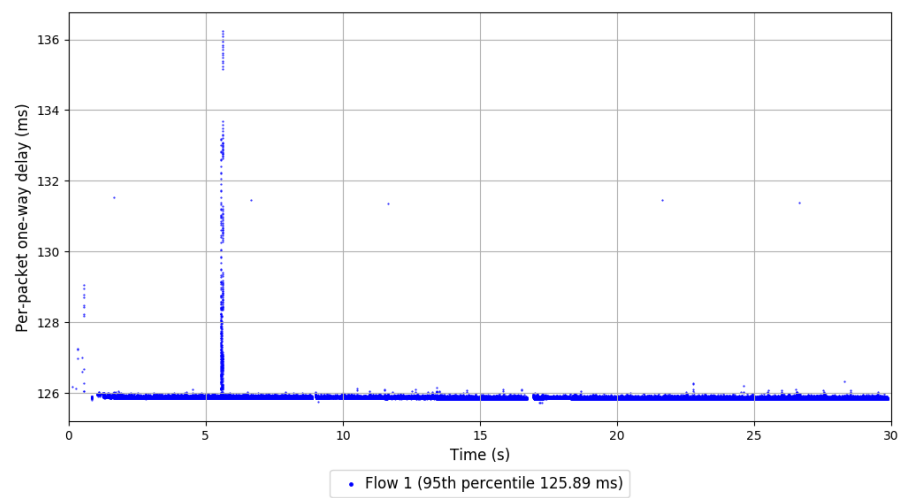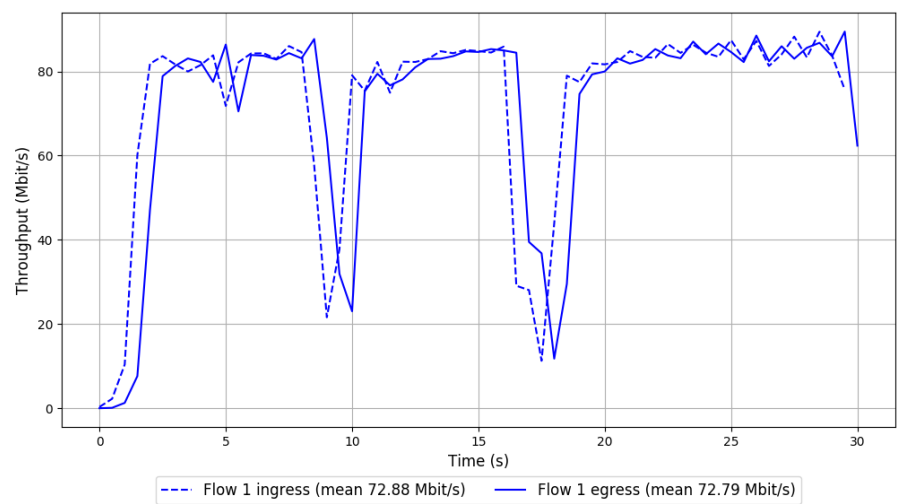

Flow 1 (95th percentile 134.43 ms)

```
Run 1: Statistics of QUIC Cubic

Start at: 2019-03-19 09:09:29
End at: 2019-03-19 09:09:59
Local clock offset: -0.213 ms
Remote clock offset: -32.841 ms

# Below is generated by plot.py at 2019-03-19 12:16:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.79 Mbit/s
95th percentile per-packet one-way delay: 125.887 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 72.79 Mbit/s
95th percentile per-packet one-way delay: 125.887 ms
Loss rate: 0.76%
```
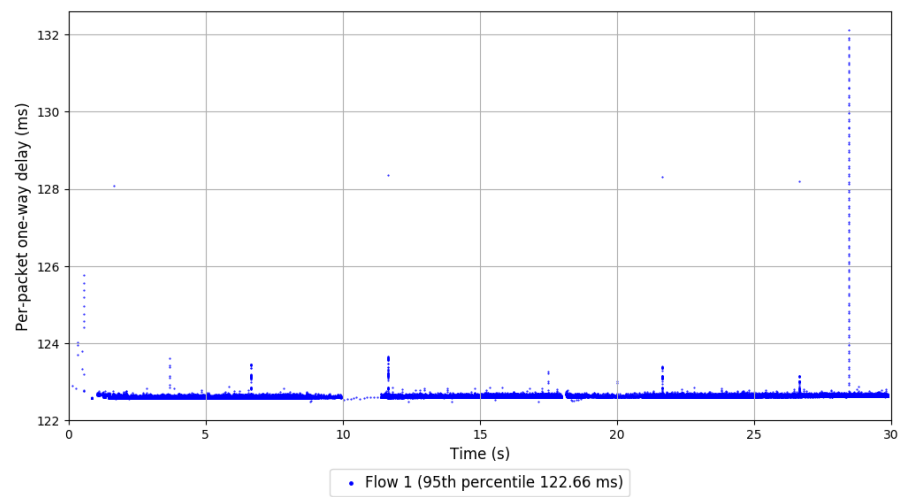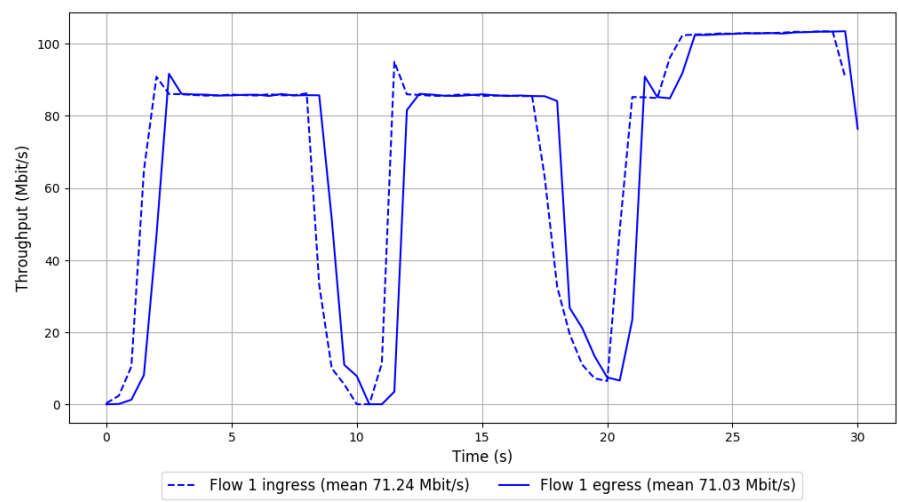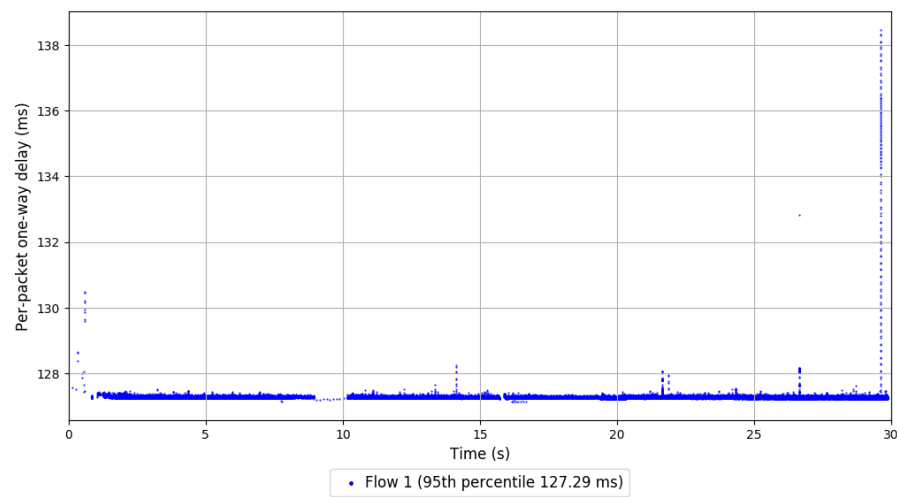
Run 1: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 72.88 Mbit/s) ----- Flow 1 egress (mean 72.79 Mbit/s) ———

Flow 1 (95th percentile 125.89 ms)

```
Run 2: Statistics of QUIC Cubic

Start at: 2019-03-19 09:48:57
End at: 2019-03-19 09:49:27
Local clock offset: 1.068 ms
Remote clock offset: -29.5 ms


# Below is generated by plot.py at 2019-03-19 12:16:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.03 Mbit/s
95th percentile per-packet one-way delay: 122.656 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 71.03 Mbit/s
95th percentile per-packet one-way delay: 122.656 ms
Loss rate: 0.93%
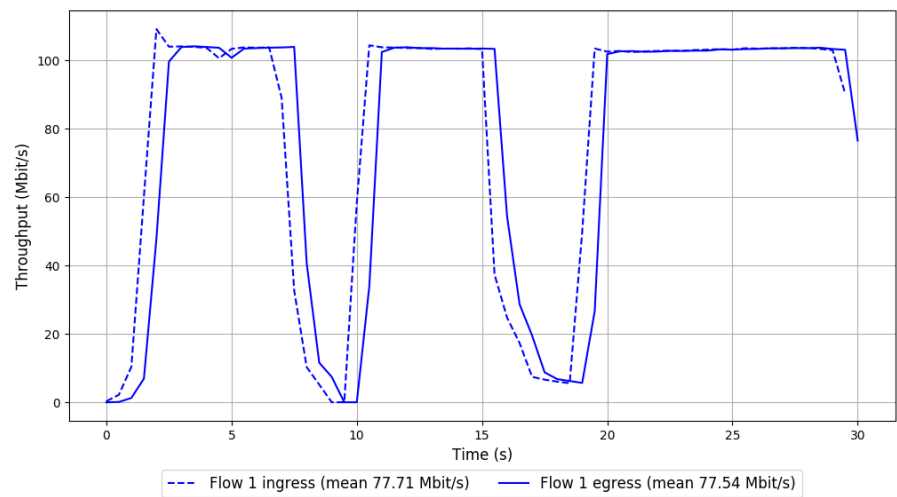```

Run 2: Report of QUIC Cubic — Data Link

```
Run 3: Statistics of QUIC Cubic

Start at: 2019-03-19 10:22:55
End at: 2019-03-19 10:23:25
Local clock offset: -0.086 ms
Remote clock offset: -33.447 ms

Below is generated by plot.py at 2019-03-19 12:16:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.54 Mbit/s
95th percentile per-packet one-way delay: 127.292 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 77.54 Mbit/s
95th percentile per-packet one-way delay: 127.292 ms
Loss rate: 0.86%
```
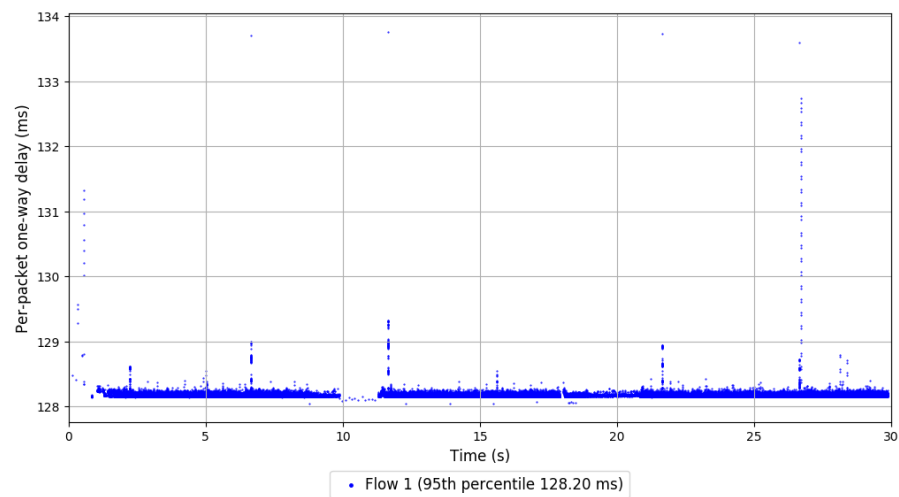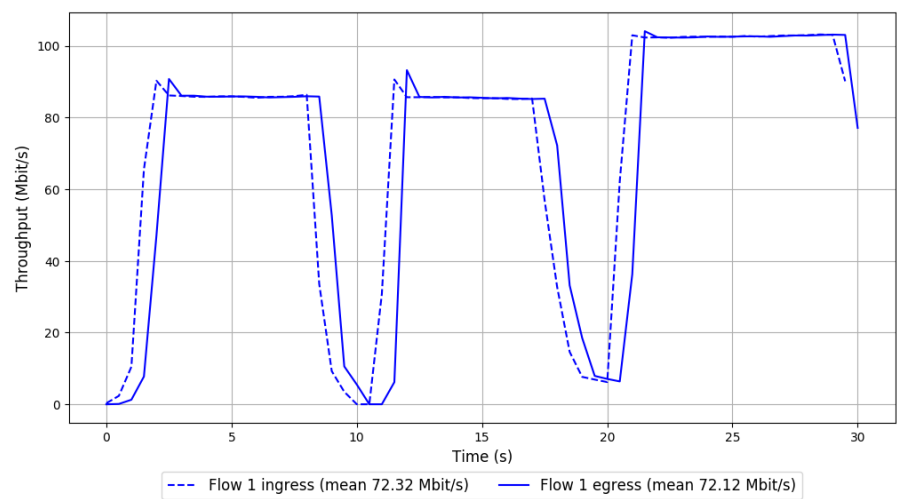
## Run 3: Report of QUIC Cubic — Data Link

```
Run 4: Statistics of QUIC Cubic

Start at: 2019-03-19 10:56:49
End at: 2019-03-19 10:57:19
Local clock offset: 0.794 ms
Remote clock offset: -34.797 ms


# Below is generated by plot.py at 2019-03-19 12:16:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.12 Mbit/s
95th percentile per-packet one-way delay: 128.202 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 72.12 Mbit/s
95th percentile per-packet one-way delay: 128.202 ms
Loss rate: 0.91%
```

Run 4: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 72.32 Mbit/s)   Flow 1 egress (mean 72.12 Mbit/s)
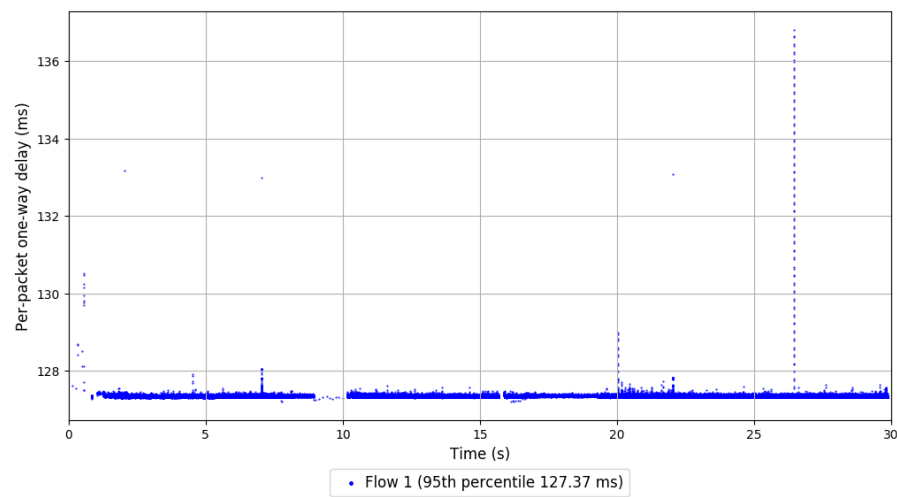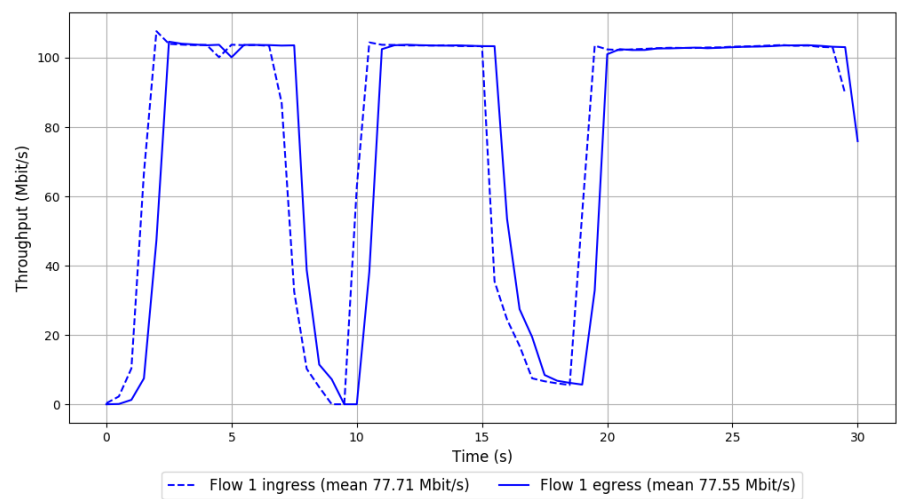

Flow 1 (95th percentile 128.20 ms)

```
Run 5: Statistics of QUIC Cubic

Start at: 2019-03-19 11:36:12
End at: 2019-03-19 11:36:43
Local clock offset: -1.007 ms
Remote clock offset: -33.521 ms


# Below is generated by plot.py at 2019-03-19 12:17:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.55 Mbit/s
95th percentile per-packet one-way delay: 127.366 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 77.55 Mbit/s
95th percentile per-packet one-way delay: 127.366 ms
Loss rate: 0.86%
```

Run 5: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 77.71 Mbit/s) --- Flow 1 egress (mean 77.55 Mbit/s)
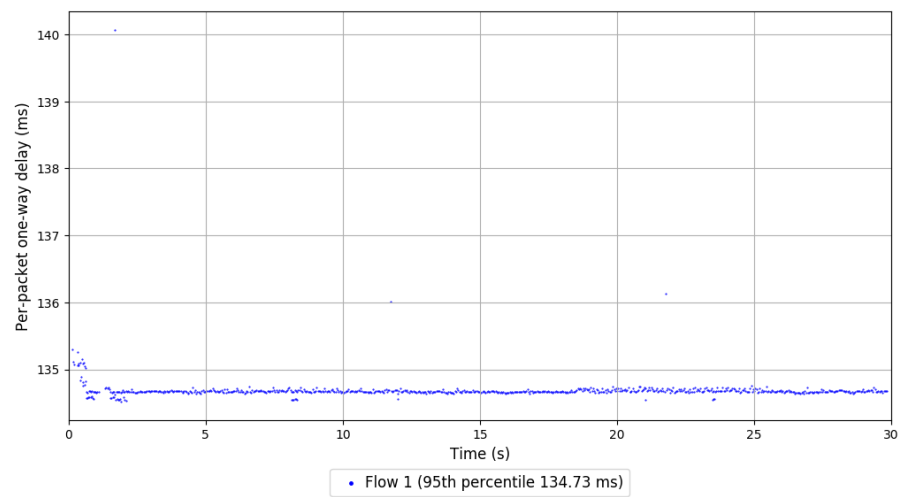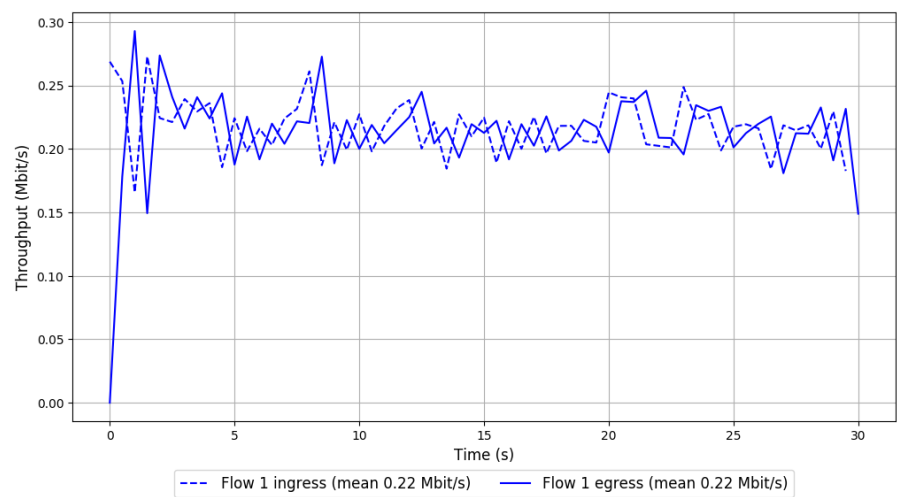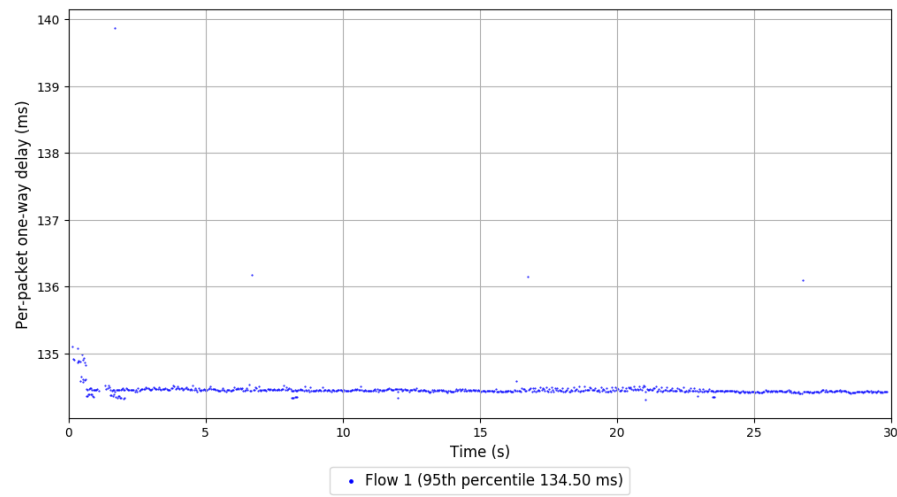

Flow 1 (95th percentile 127.37 ms)

```
Run 1: Statistics of SCReAM

Start at: 2019-03-19 08:39:24
End at: 2019-03-19 08:39:54
Local clock offset: 2.923 ms
Remote clock offset: -39.386 ms


# Below is generated by plot.py at 2019-03-19 12:17:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 134.729 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 134.729 ms
Loss rate: 0.64%
```

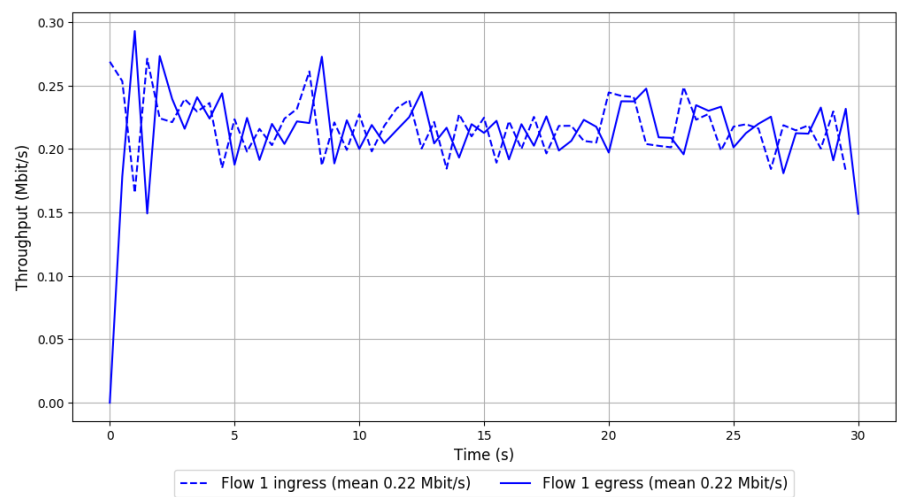Run 1: Report of SCReAM — Data Link

```
Run 2: Statistics of SCReAM

Start at: 2019-03-19 09:24:37
End at: 2019-03-19 09:25:07
Local clock offset: 0.484 ms
Remote clock offset: -40.162 ms


# Below is generated by plot.py at 2019-03-19 12:17:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 134.503 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 134.503 ms
Loss rate: 0.64%
```

Run 2: Report of SCReAM — Data Link

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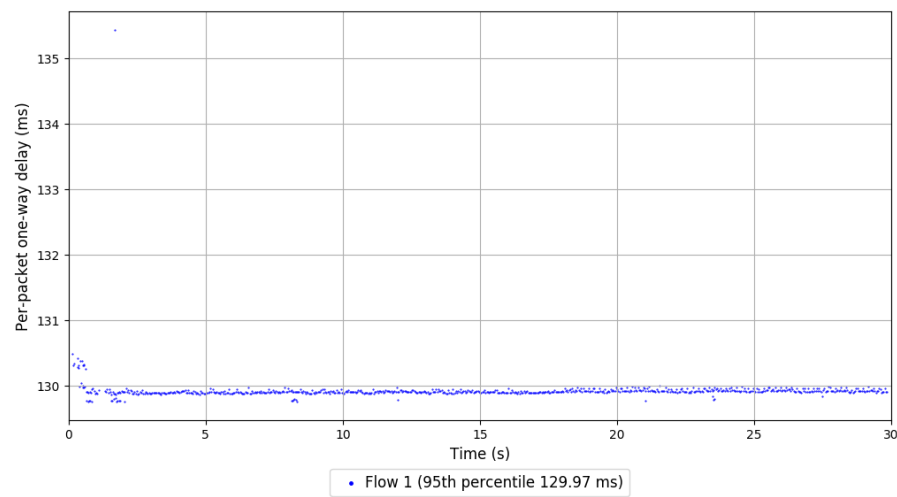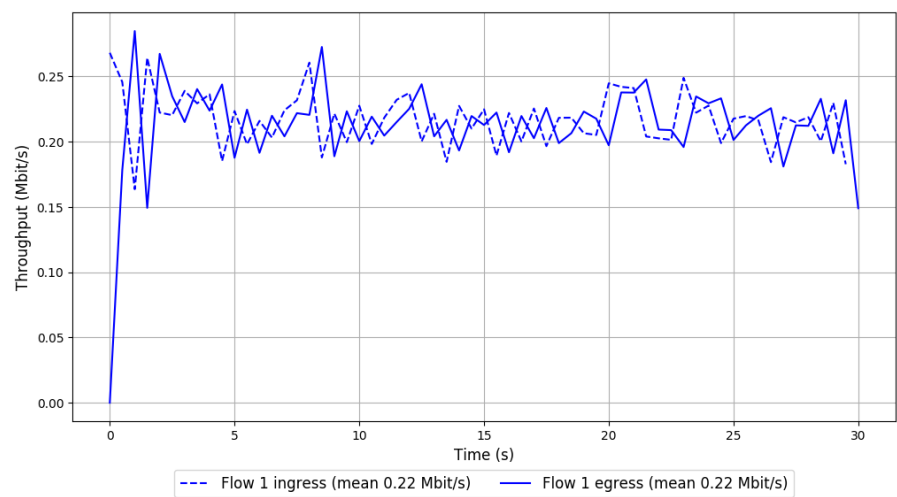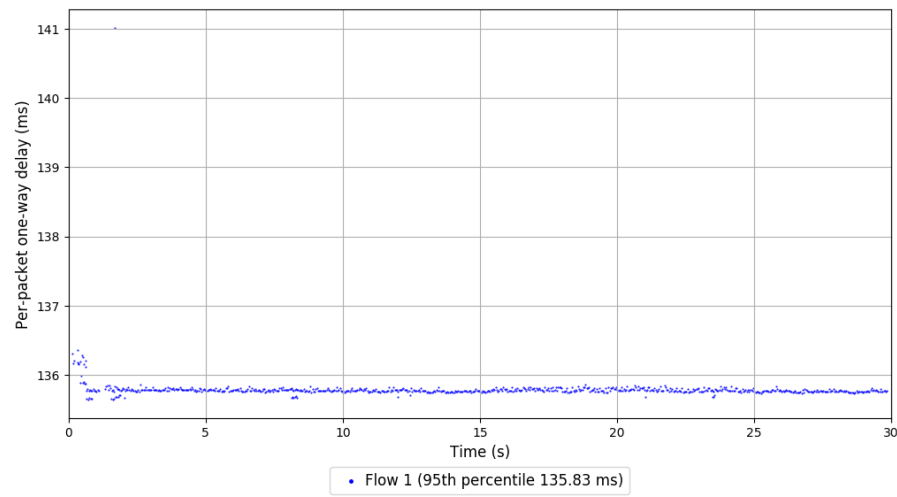

• Flow 1 (95th percentile 134.50 ms)

```
Run 3: Statistics of SCReAM

Start at: 2019-03-19 09:58:32
End at: 2019-03-19 09:59:02
Local clock offset: -0.027 ms
Remote clock offset: -36.926 ms


# Below is generated by plot.py at 2019-03-19 12:17:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 129.971 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 129.971 ms
Loss rate: 0.64%
```
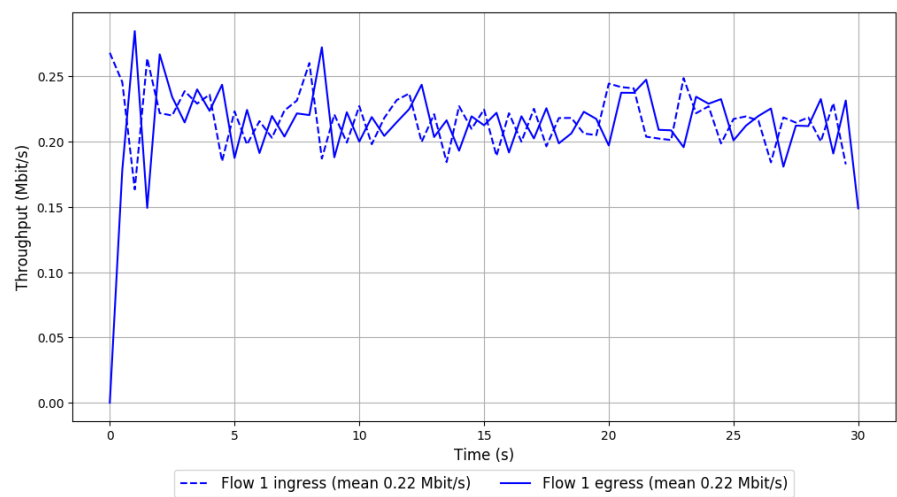
Run 3: Report of SCReAM — Data Link

```
Run 4: Statistics of SCReAM

Start at: 2019-03-19 10:32:27
End at: 2019-03-19 10:32:57
Local clock offset: 1.416 ms
Remote clock offset: -40.055 ms


# Below is generated by plot.py at 2019-03-19 12:17:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.826 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.826 ms
Loss rate: 0.64%
```
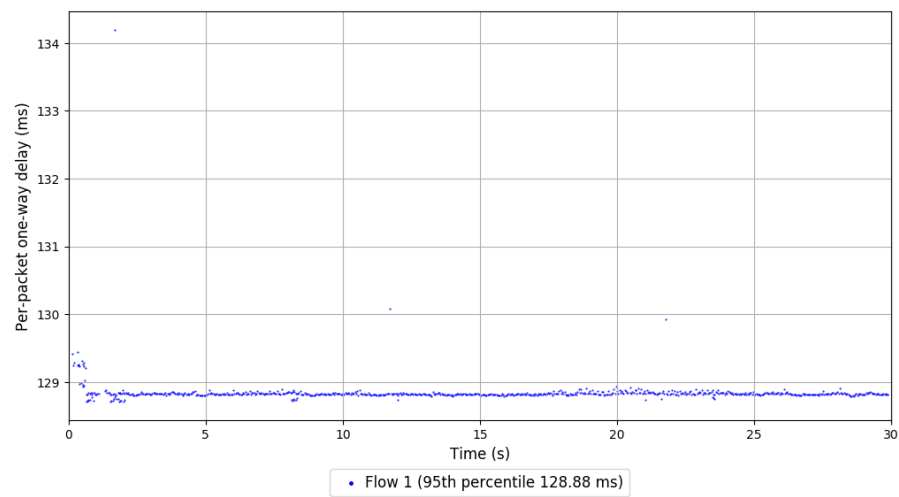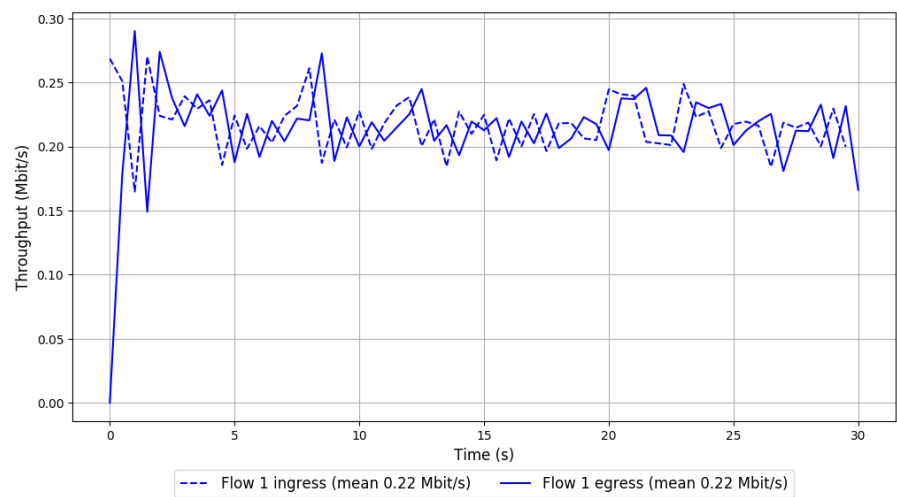
Run 4: Report of SCReAM — Data Link

```
Run 5: Statistics of SCReAM

Start at: 2019-03-19 11:17:29
End at: 2019-03-19 11:17:59
Local clock offset: -0.023 ms
Remote clock offset: -34.613 ms


# Below is generated by plot.py at 2019-03-19 12:17:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 128.880 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 128.880 ms
Loss rate: 0.64%
```
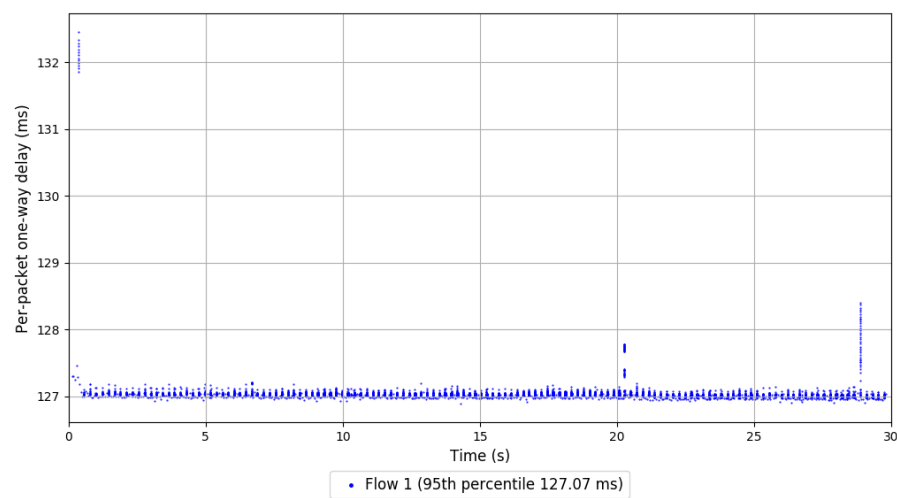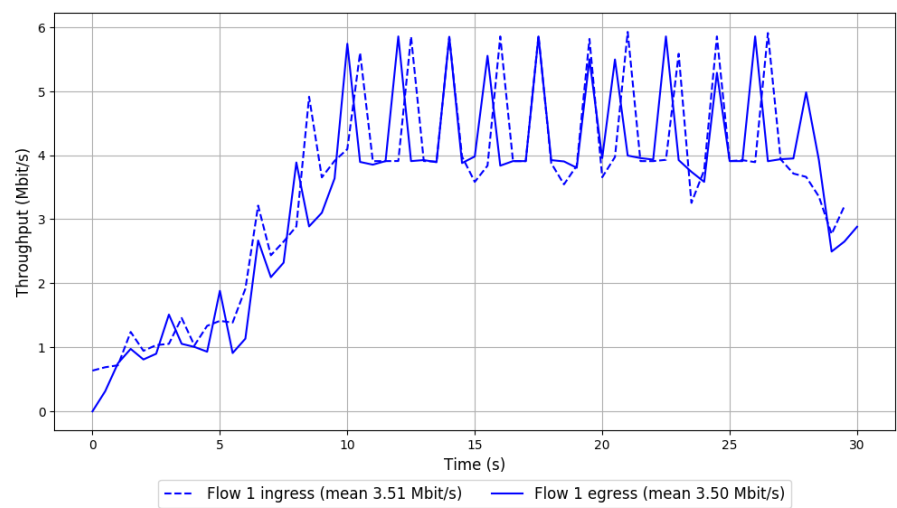
Run 5: Report of SCReAM — Data Link

```
Run 1: Statistics of Sprout

Start at: 2019-03-19 09:05:45
End at: 2019-03-19 09:06:15
Local clock offset: 0.179 ms
Remote clock offset: -32.041 ms


# Below is generated by plot.py at 2019-03-19 12:17:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.50 Mbit/s
95th percentile per-packet one-way delay: 127.068 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 3.50 Mbit/s
95th percentile per-packet one-way delay: 127.068 ms
Loss rate: 0.82%
```

Run 1: Report of Sprout — Data Link

Flow 1 ingress (mean 3.51 Mbit/s)   Flow 1 egress (mean 3.50 Mbit/s)

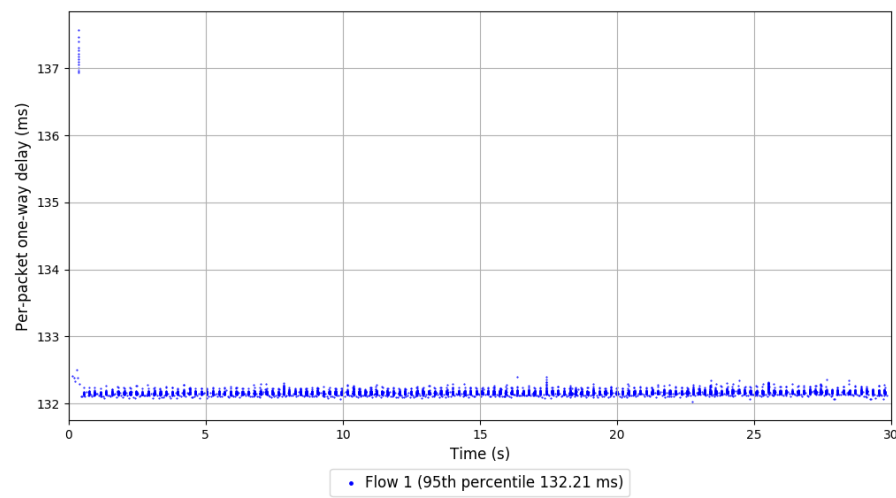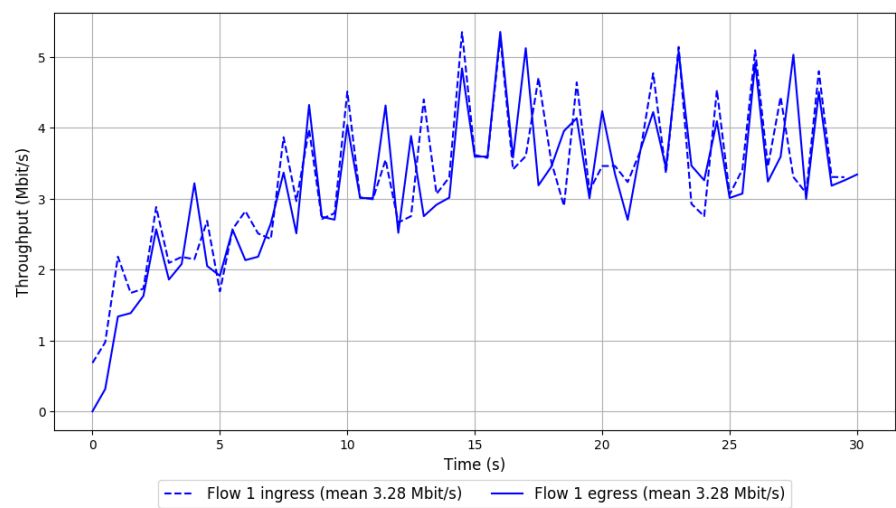Flow 1 (95th percentile 127.07 ms)

```
Run 2: Statistics of Sprout

Start at: 2019-03-19 09:39:37
End at: 2019-03-19 09:40:07
Local clock offset: 1.363 ms
Remote clock offset: -39.141 ms

# Below is generated by plot.py at 2019-03-19 12:17:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.28 Mbit/s
95th percentile per-packet one-way delay: 132.212 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 3.28 Mbit/s
95th percentile per-packet one-way delay: 132.212 ms
Loss rate: 0.83%
```
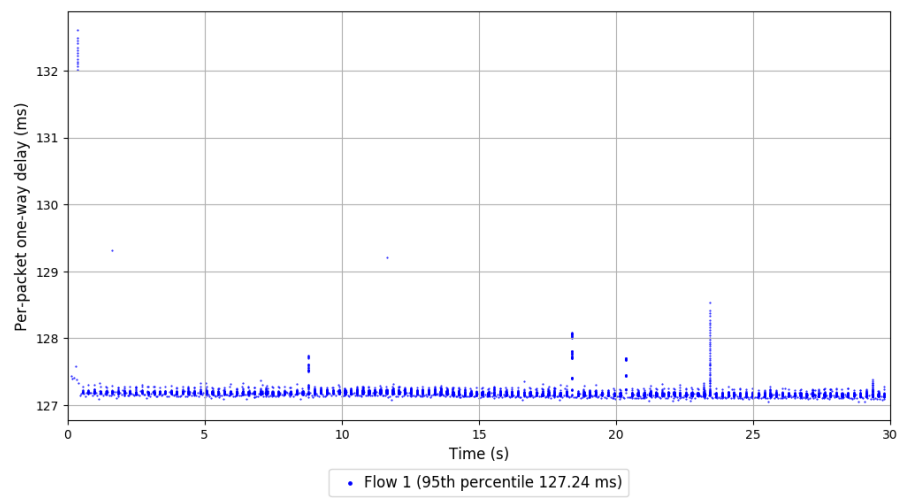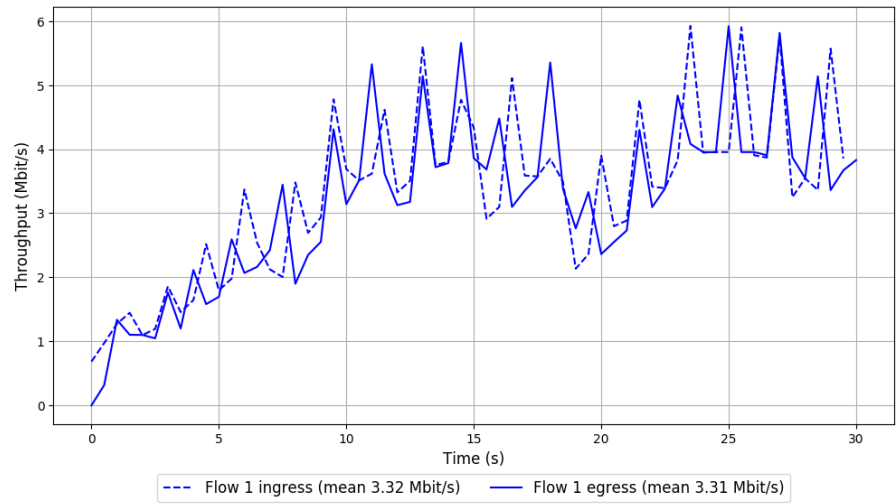
Run 2: Report of Sprout — Data Link

```
Run 3: Statistics of Sprout

Start at: 2019-03-19 10:19:08
End at: 2019-03-19 10:19:38
Local clock offset: -0.932 ms
Remote clock offset: -33.337 ms


# Below is generated by plot.py at 2019-03-19 12:17:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.31 Mbit/s
95th percentile per-packet one-way delay: 127.239 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 3.31 Mbit/s
95th percentile per-packet one-way delay: 127.239 ms
Loss rate: 0.97%
```
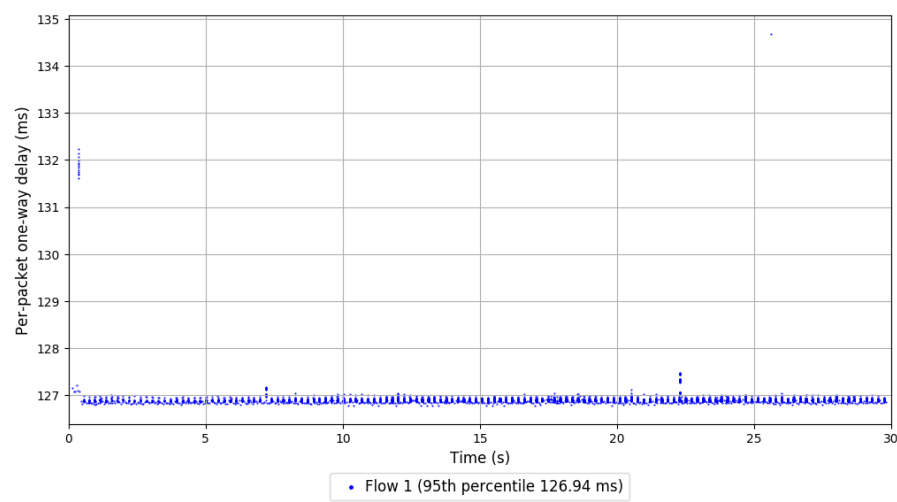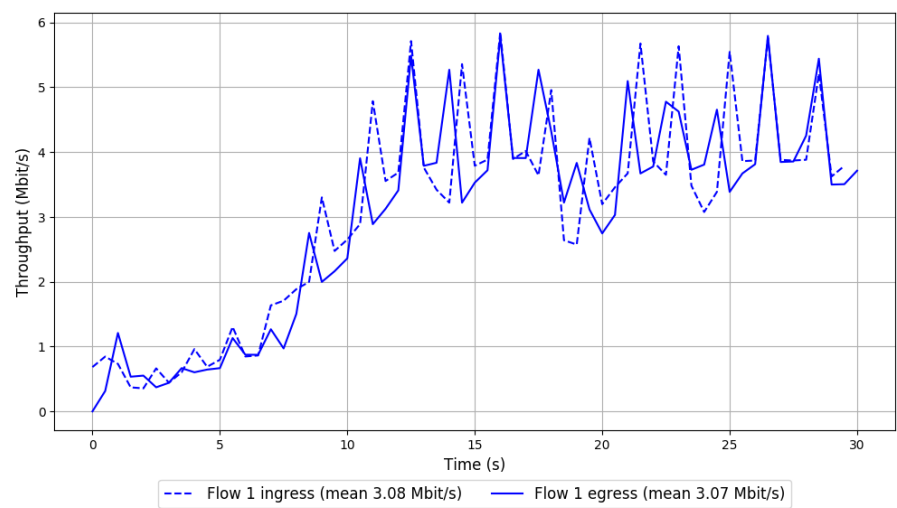
Run 3: Report of Sprout — Data Link

```
Run 4: Statistics of Sprout

Start at: 2019-03-19 10:53:04
End at: 2019-03-19 10:53:34
Local clock offset: 0.756 ms
Remote clock offset: -33.566 ms


# Below is generated by plot.py at 2019-03-19 12:17:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.07 Mbit/s
95th percentile per-packet one-way delay: 126.939 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 3.07 Mbit/s
95th percentile per-packet one-way delay: 126.939 ms
Loss rate: 1.04%
```

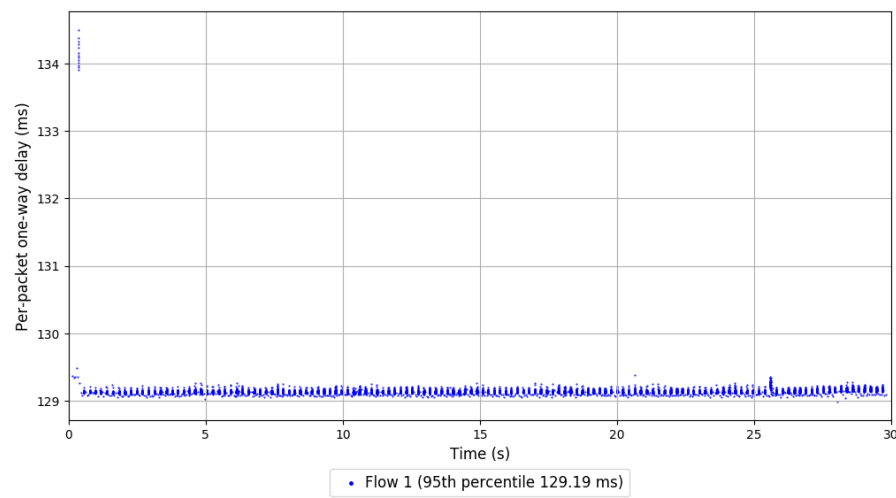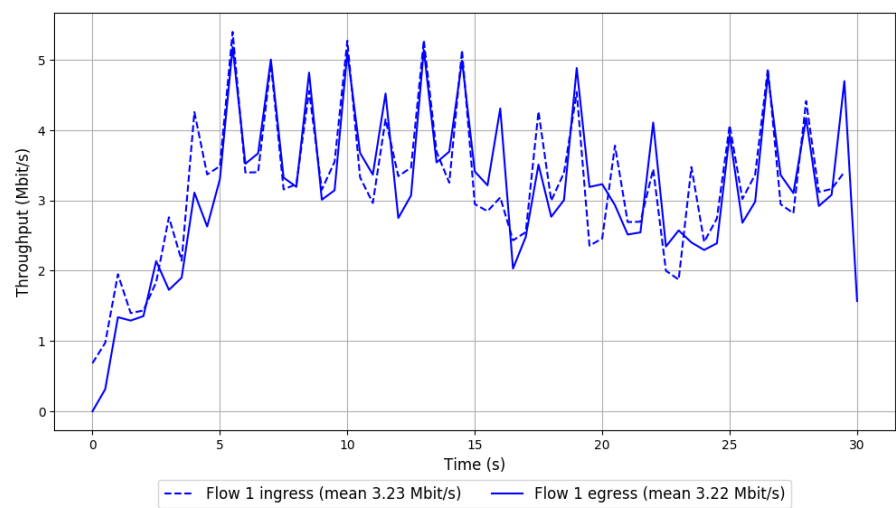Run 4: Report of Sprout — Data Link

```
Run 5: Statistics of Sprout

Start at: 2019-03-19 11:32:31
End at: 2019-03-19 11:33:01
Local clock offset: 0.155 ms
Remote clock offset: -35.515 ms


# Below is generated by plot.py at 2019-03-19 12:17:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.22 Mbit/s
95th percentile per-packet one-way delay: 129.187 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 3.22 Mbit/s
95th percentile per-packet one-way delay: 129.187 ms
Loss rate: 0.95%
```

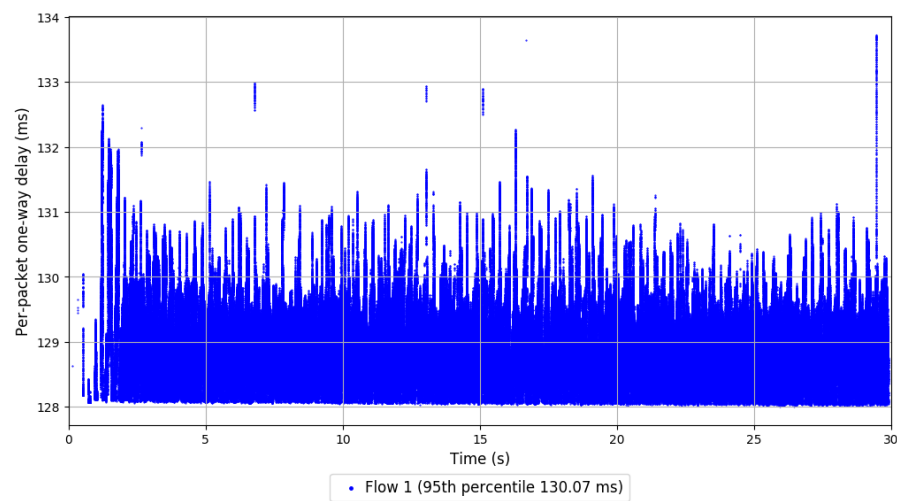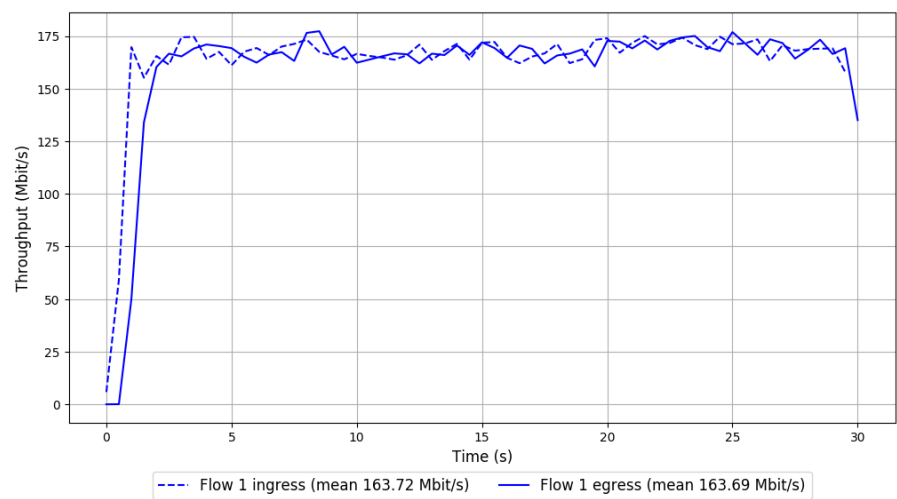Run 5: Report of Sprout — Data Link

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

Start at: 2019-03-19 09:20:26
End at: 2019-03-19 09:20:56
Local clock offset: -0.173 ms
Remote clock offset: -34.221 ms


# Below is generated by plot.py at 2019-03-19 12:19:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 163.69 Mbit/s
95th percentile per-packet one-way delay: 130.072 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 163.69 Mbit/s
95th percentile per-packet one-way delay: 130.072 ms
Loss rate: 0.67%
```

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

Flow 1 ingress (mean 163.72 Mbit/s) ----   Flow 1 egress (mean 163.69 Mbit/s) ——
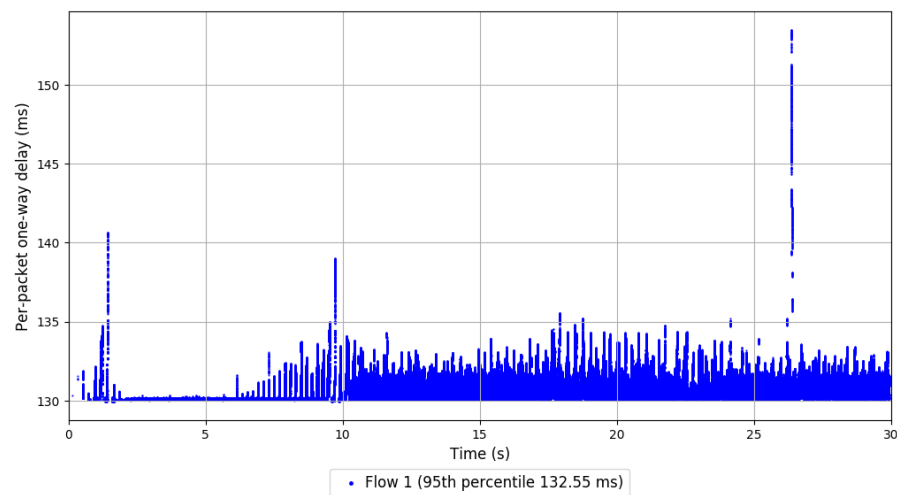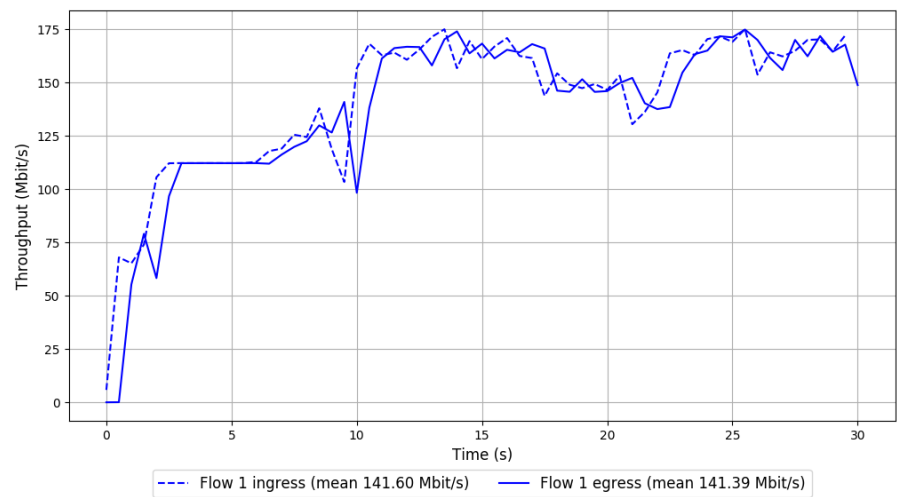

Flow 1 (95th percentile 130.07 ms)

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

Start at: 2019-03-19 09:54:22
End at: 2019-03-19 09:54:52
Local clock offset: 0.612 ms
Remote clock offset: -34.967 ms


# Below is generated by plot.py at 2019-03-19 12:19:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 141.39 Mbit/s
95th percentile per-packet one-way delay: 132.551 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 141.39 Mbit/s
95th percentile per-packet one-way delay: 132.551 ms
Loss rate: 0.79%
```
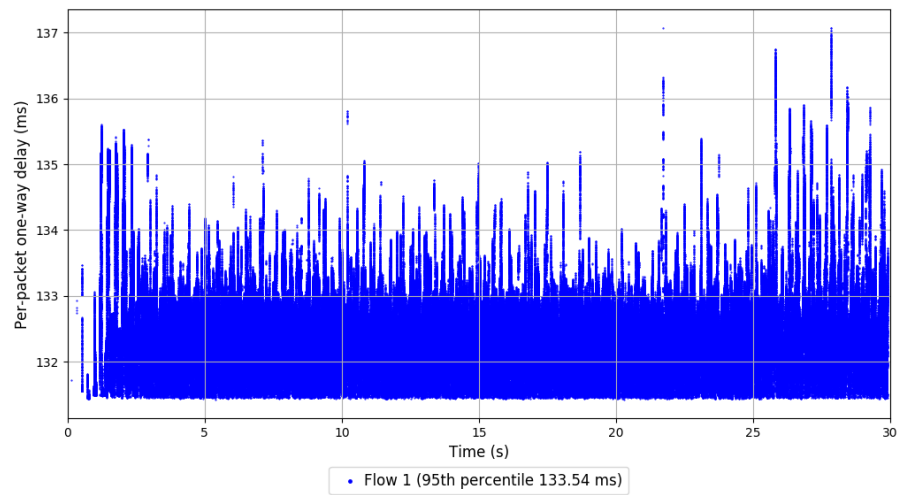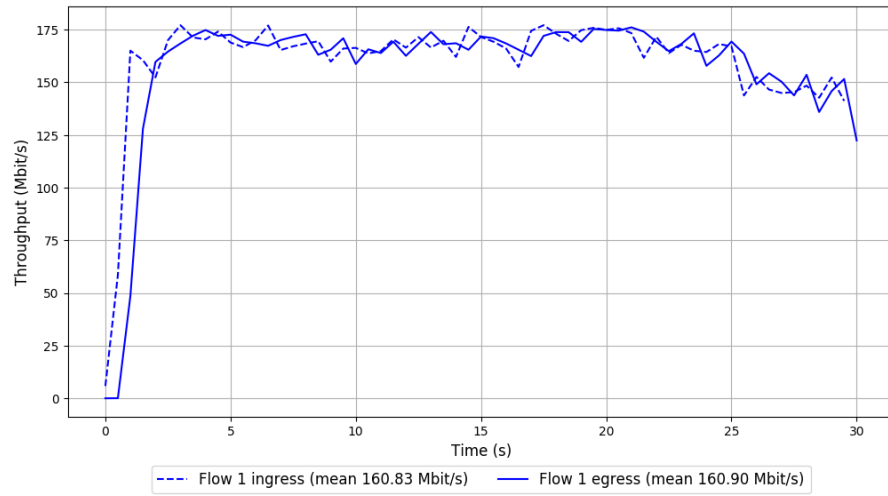
Run 2: Report of TaoVA-100x — Data Link

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

Start at: 2019-03-19 10:28:19
End at: 2019-03-19 10:28:49
Local clock offset: 0.394 ms
Remote clock offset: -36.862 ms


# Below is generated by plot.py at 2019-03-19 12:19:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 160.90 Mbit/s
95th percentile per-packet one-way delay: 133.540 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 160.90 Mbit/s
95th percentile per-packet one-way delay: 133.540 ms
Loss rate: 0.61%
```
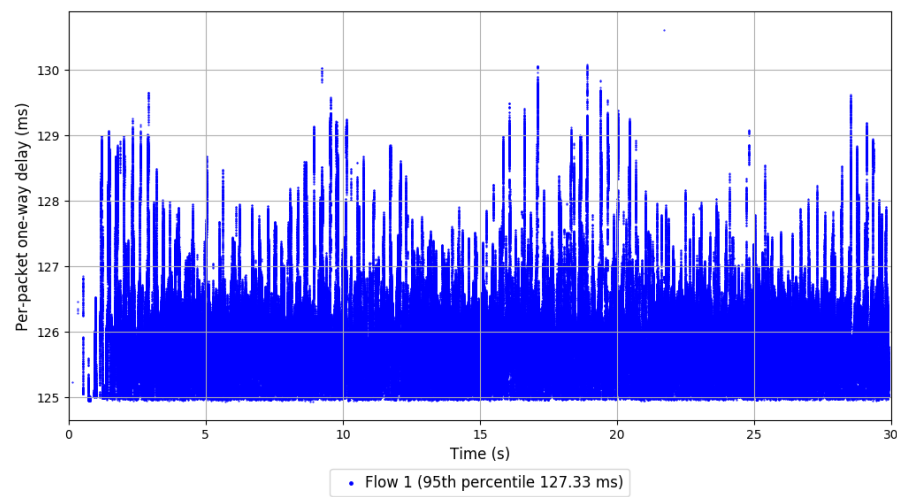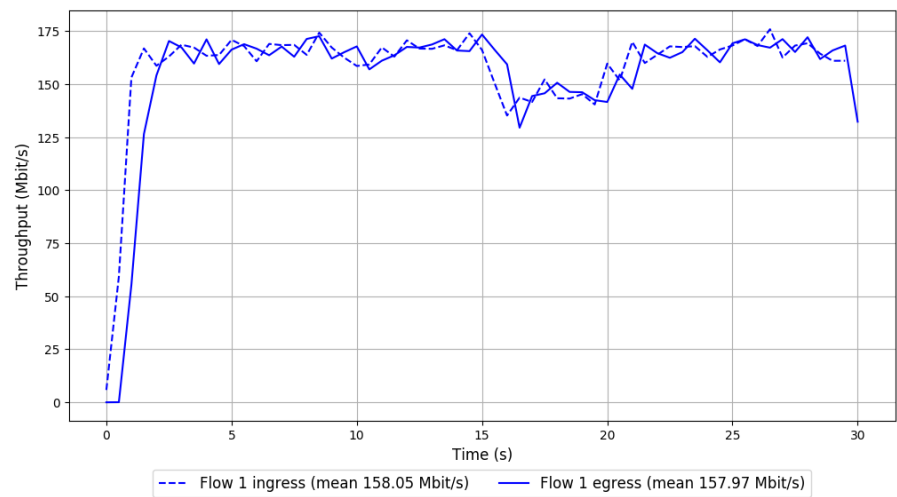
Run 3: Report of TaoVA-100x — Data Link

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

Start at: 2019-03-19 11:07:42
End at: 2019-03-19 11:08:12
Local clock offset: -0.193 ms
Remote clock offset: -32.393 ms


# Below is generated by plot.py at 2019-03-19 12:19:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 157.97 Mbit/s
95th percentile per-packet one-way delay: 127.329 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 157.97 Mbit/s
95th percentile per-packet one-way delay: 127.329 ms
Loss rate: 0.70%
```

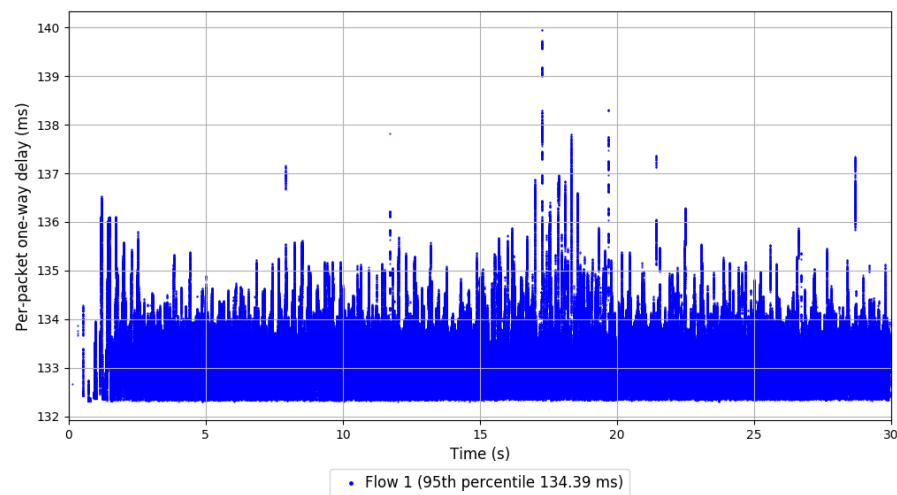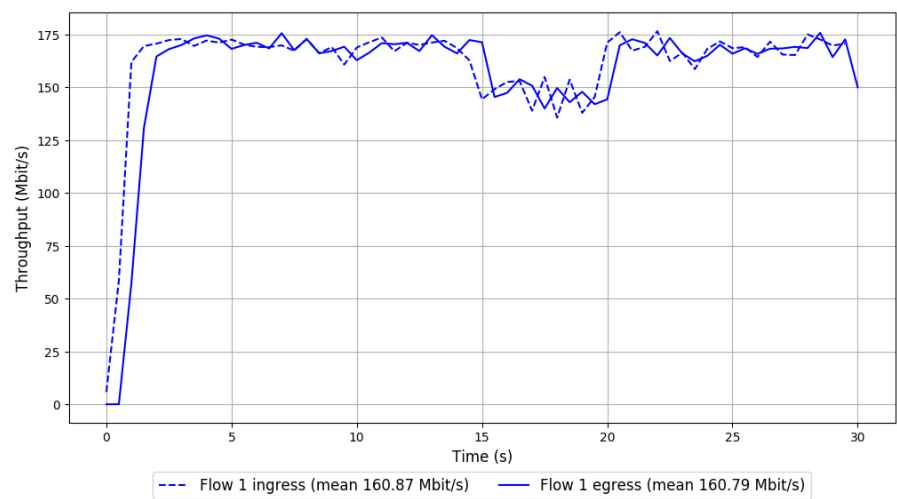## Run 4: Report of TaoVA-100x — Data Link

172

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

Start at: 2019-03-19 11:41:38
End at: 2019-03-19 11:42:08
Local clock offset: -0.467 ms
Remote clock offset: -39.182 ms


# Below is generated by plot.py at 2019-03-19 12:19:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 160.79 Mbit/s
95th percentile per-packet one-way delay: 134.389 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 160.79 Mbit/s
95th percentile per-packet one-way delay: 134.389 ms
Loss rate: 0.69%
```

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

Flow 1 ingress (mean 160.87 Mbit/s)   Flow 1 egress (mean 160.79 Mbit/s)
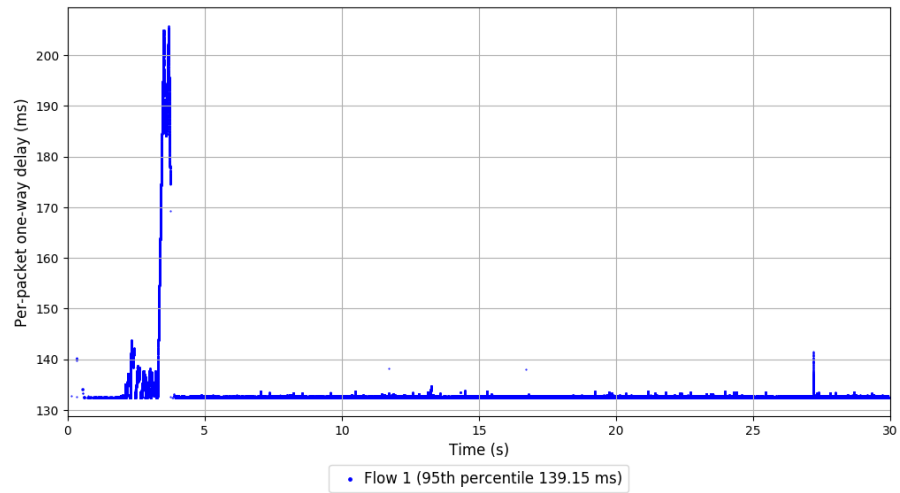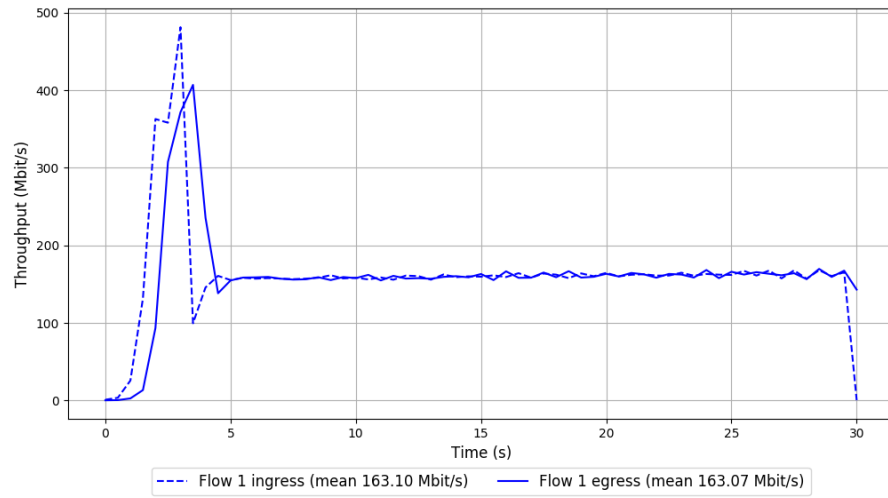

Flow 1 (95th percentile 134.39 ms)

174

```
Run 1: Statistics of TCP Vegas

Start at: 2019-03-19 08:42:01
End at: 2019-03-19 08:42:31
Local clock offset: 2.937 ms
Remote clock offset: -38.462 ms


# Below is generated by plot.py at 2019-03-19 12:19:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 163.07 Mbit/s
95th percentile per-packet one-way delay: 139.150 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 163.07 Mbit/s
95th percentile per-packet one-way delay: 139.150 ms
Loss rate: 0.65%
```
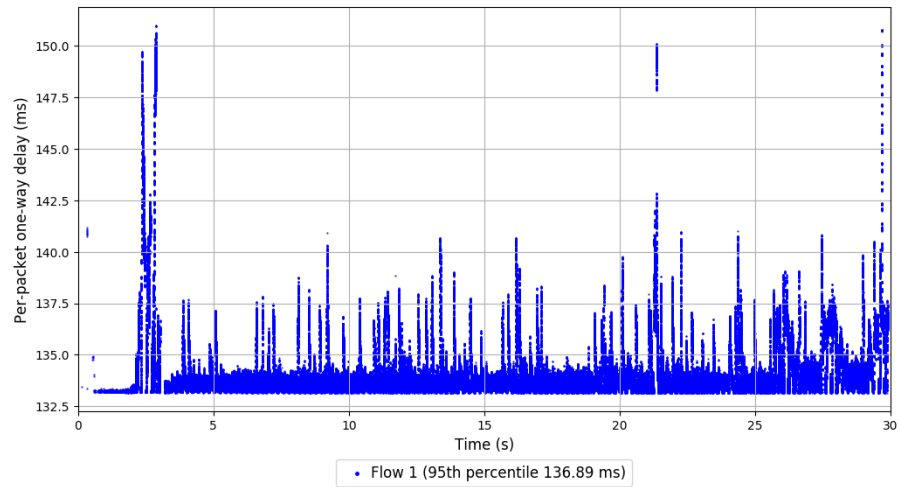
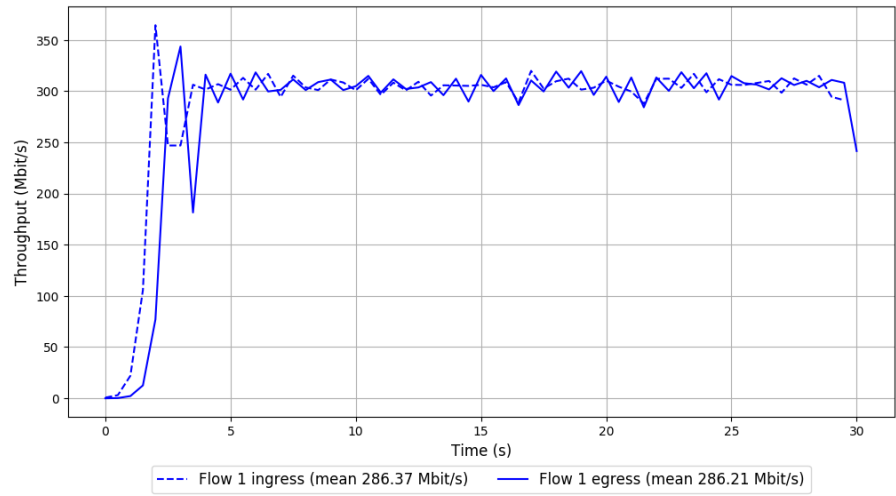Run 1: Report of TCP Vegas — Data Link

```
Run 2: Statistics of TCP Vegas

Start at: 2019-03-19 09:27:13
End at: 2019-03-19 09:27:43
Local clock offset: -0.288 ms
Remote clock offset: -40.431 ms


# Below is generated by plot.py at 2019-03-19 12:19:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 286.21 Mbit/s
95th percentile per-packet one-way delay: 136.891 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 286.21 Mbit/s
95th percentile per-packet one-way delay: 136.891 ms
Loss rate: 0.70%
```
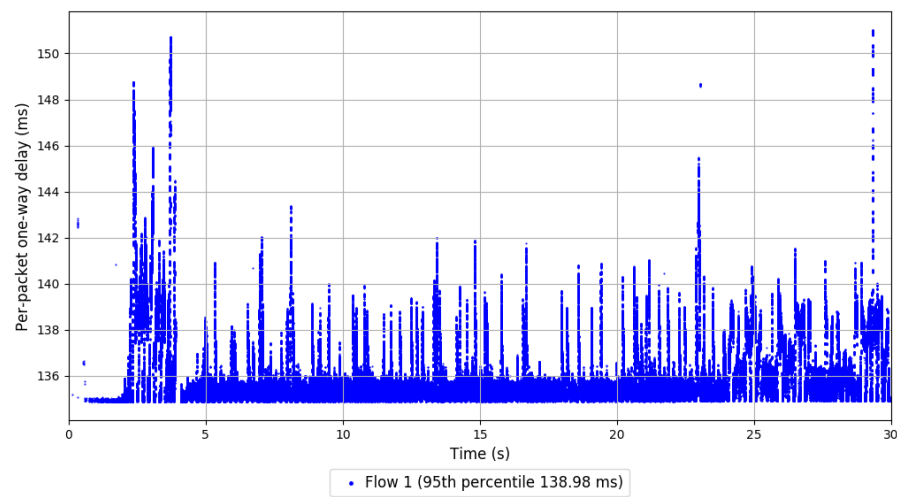
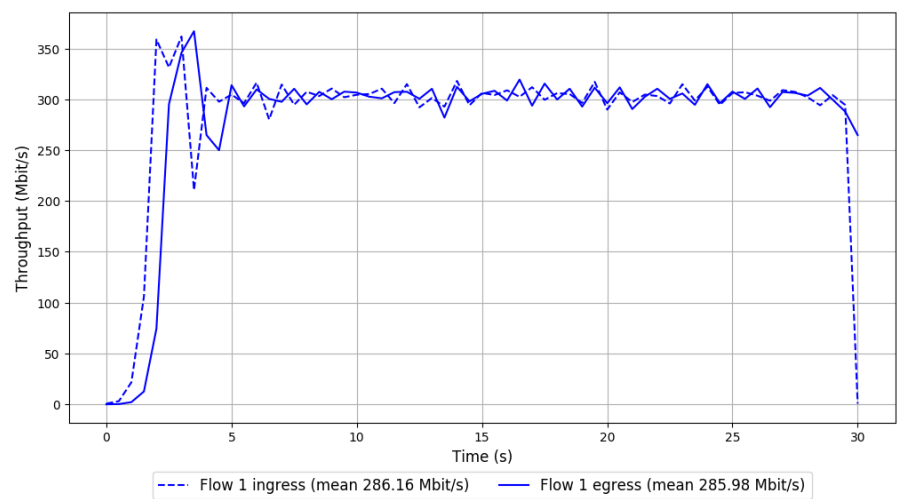Run 2: Report of TCP Vegas — Data Link

```
Run 3: Statistics of TCP Vegas

Start at: 2019-03-19 10:01:09
End at: 2019-03-19 10:01:39
Local clock offset: 0.689 ms
Remote clock offset: -39.284 ms


# Below is generated by plot.py at 2019-03-19 12:20:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 285.98 Mbit/s
95th percentile per-packet one-way delay: 138.981 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 285.98 Mbit/s
95th percentile per-packet one-way delay: 138.981 ms
Loss rate: 0.71%
```

Run 3: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 286.16 Mbit/s) Flow 1 egress (mean 285.98 Mbit/s)
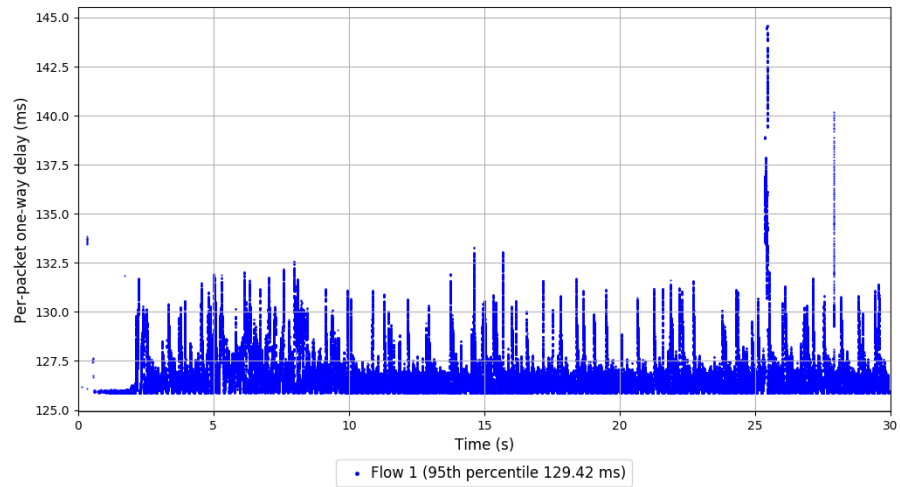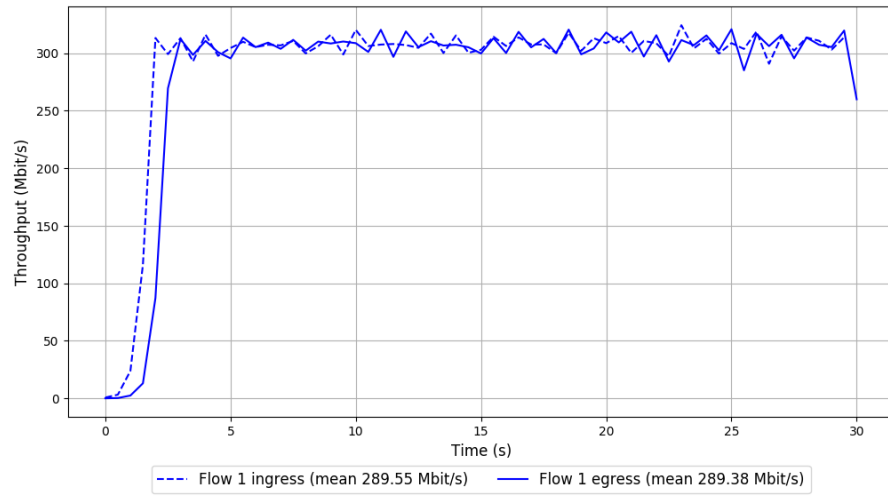

Flow 1 (95th percentile 138.98 ms)

```
Run 4: Statistics of TCP Vegas

Start at: 2019-03-19 10:35:05
End at: 2019-03-19 10:35:36
Local clock offset: -0.174 ms
Remote clock offset: -31.913 ms


# Below is generated by plot.py at 2019-03-19 12:21:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 289.38 Mbit/s
95th percentile per-packet one-way delay: 129.424 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 289.38 Mbit/s
95th percentile per-packet one-way delay: 129.424 ms
Loss rate: 0.70%
```
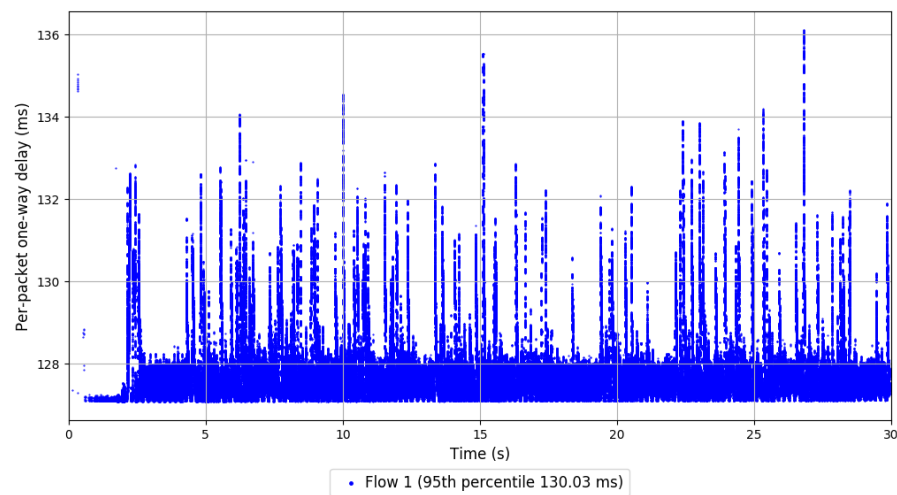
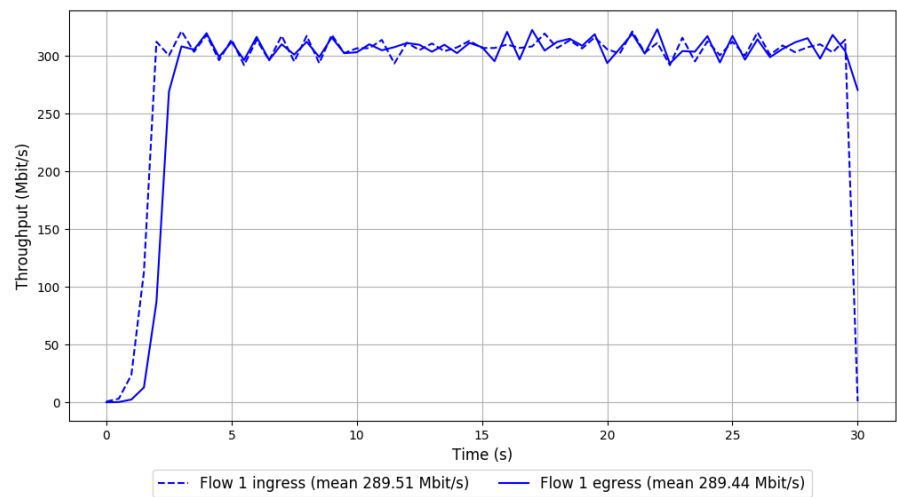Run 4: Report of TCP Vegas — Data Link

```
Run 5: Statistics of TCP Vegas

Start at: 2019-03-19 11:20:14
End at: 2019-03-19 11:20:44
Local clock offset: 0.244 ms
Remote clock offset: -32.163 ms


# Below is generated by plot.py at 2019-03-19 12:22:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 289.44 Mbit/s
95th percentile per-packet one-way delay: 130.025 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 289.44 Mbit/s
95th percentile per-packet one-way delay: 130.025 ms
Loss rate: 0.67%
```

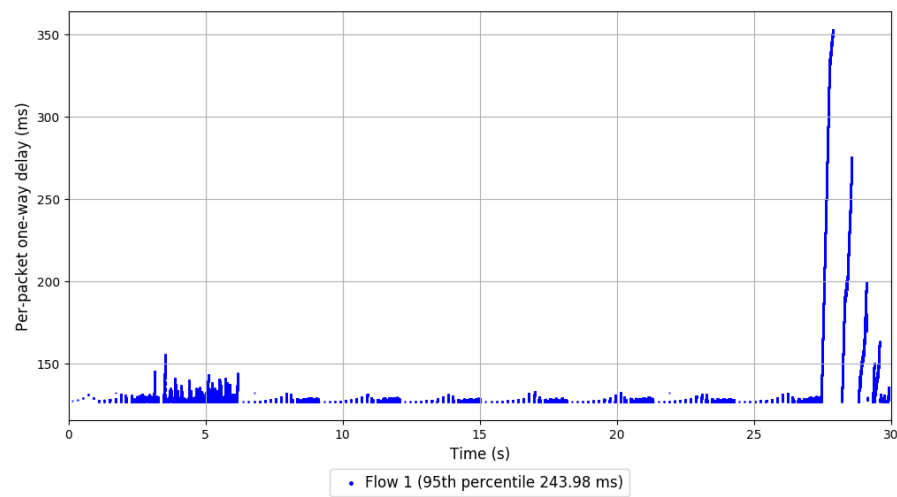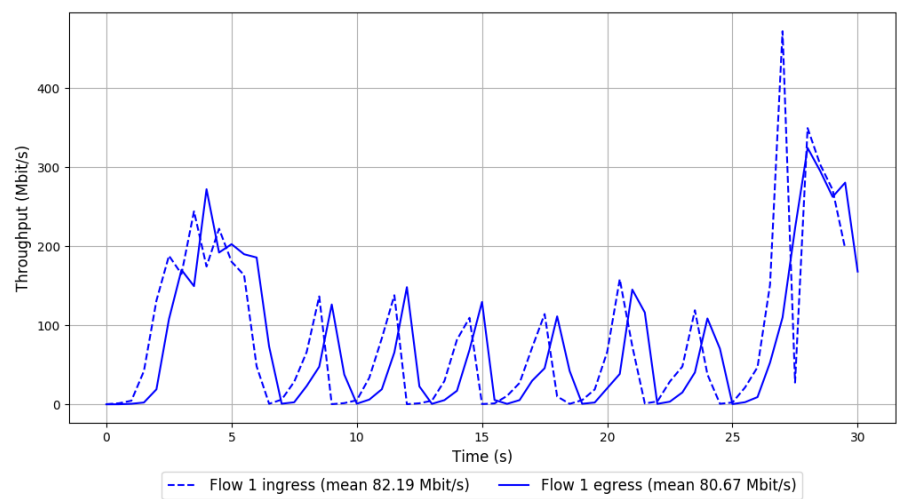Run 5: Report of TCP Vegas — Data Link

```
Run 1: Statistics of Verus

Start at: 2019-03-19 08:38:09
End at: 2019-03-19 08:38:39
Local clock offset: 1.925 ms
Remote clock offset: -32.898 ms

# Below is generated by plot.py at 2019-03-19 12:22:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.67 Mbit/s
95th percentile per-packet one-way delay: 243.976 ms
Loss rate: 2.34%
-- Flow 1:
Average throughput: 80.67 Mbit/s
95th percentile per-packet one-way delay: 243.976 ms
Loss rate: 2.34%
```
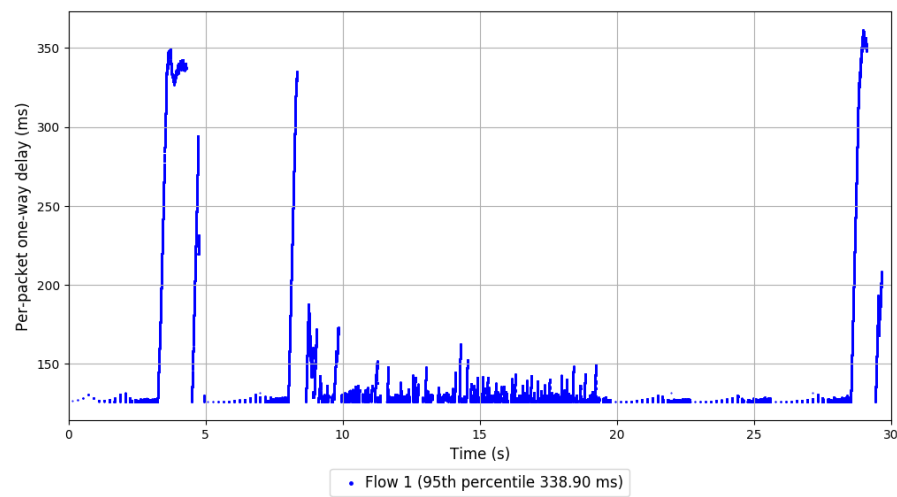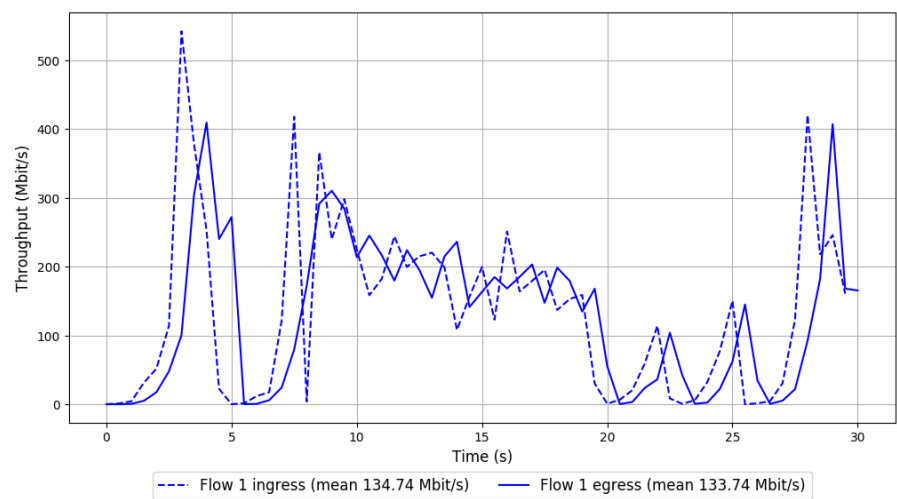
Run 1: Report of Verus — Data Link

```
Run 2: Statistics of Verus

Start at: 2019-03-19 09:23:18
End at: 2019-03-19 09:23:48
Local clock offset: 0.628 ms
Remote clock offset: -33.456 ms


# Below is generated by plot.py at 2019-03-19 12:22:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 133.74 Mbit/s
95th percentile per-packet one-way delay: 338.902 ms
Loss rate: 2.01%
-- Flow 1:
Average throughput: 133.74 Mbit/s
95th percentile per-packet one-way delay: 338.902 ms
Loss rate: 2.01%
```
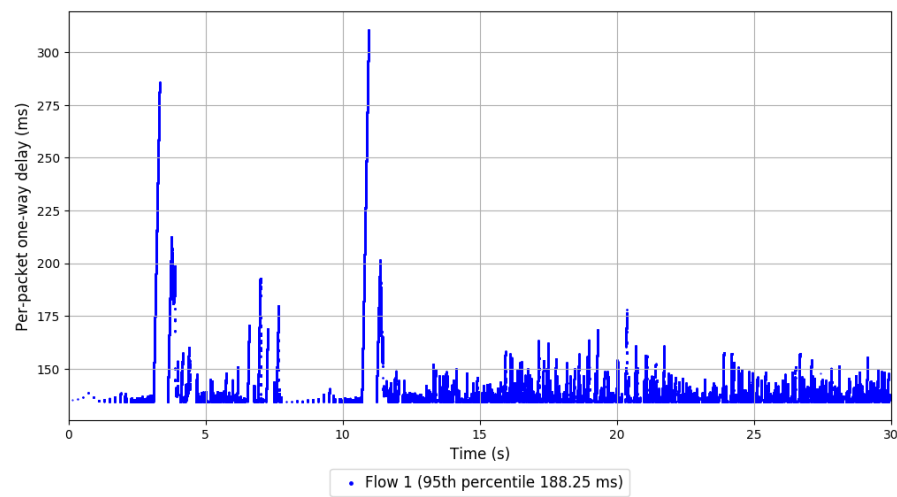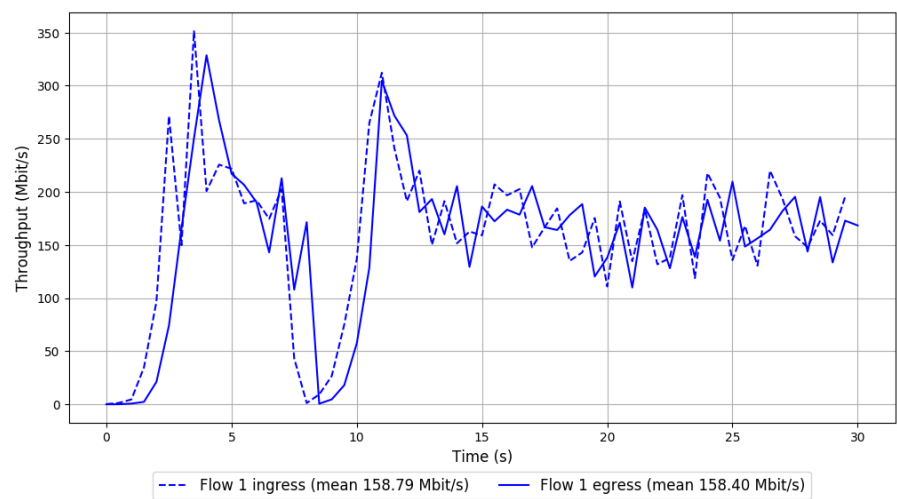
Run 2: Report of Verus — Data Link

```
Run 3: Statistics of Verus

Start at: 2019-03-19 09:57:12
End at: 2019-03-19 09:57:42
Local clock offset: 0.967 ms
Remote clock offset: -39.277 ms


# Below is generated by plot.py at 2019-03-19 12:22:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 158.40 Mbit/s
95th percentile per-packet one-way delay: 188.249 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 158.40 Mbit/s
95th percentile per-packet one-way delay: 188.249 ms
Loss rate: 0.76%
```

Run 3: Report of Verus — Data Link

Flow 1 ingress (mean 158.79 Mbit/s)   Flow 1 egress (mean 158.40 Mbit/s)
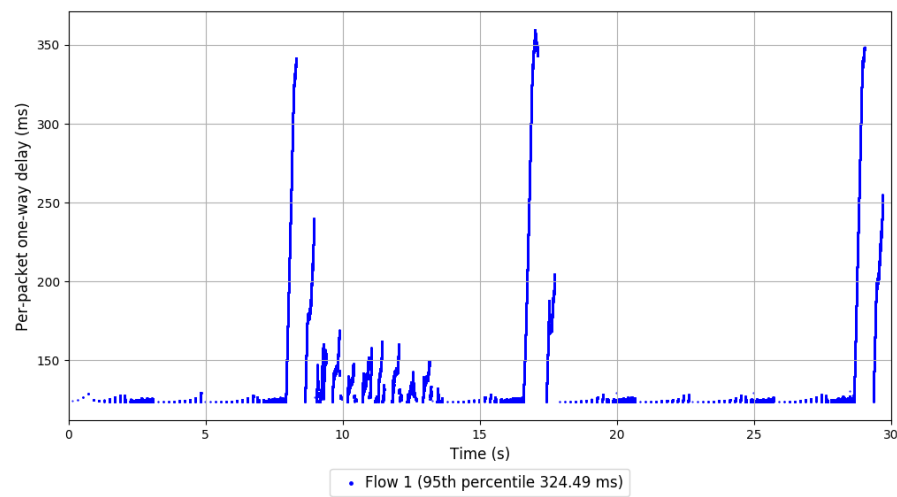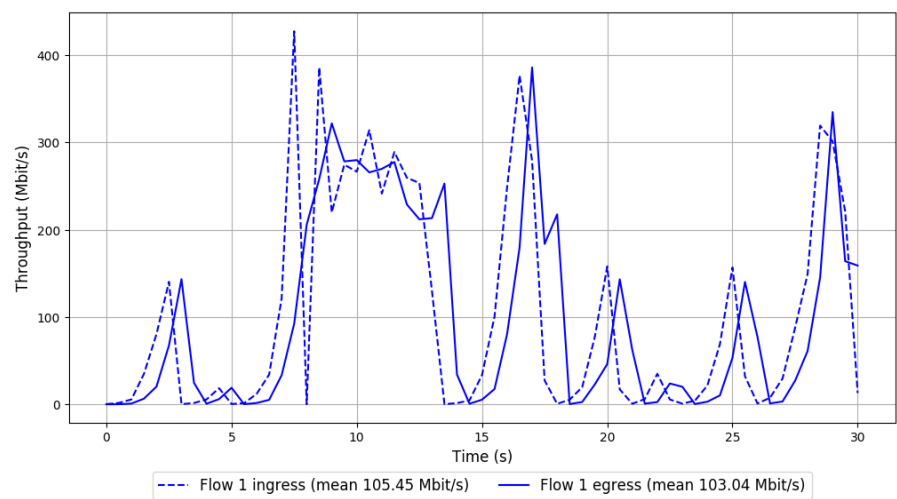

Flow 1 (95th percentile 188.25 ms)

```
Run 4: Statistics of Verus

Start at: 2019-03-19 10:31:10
End at: 2019-03-19 10:31:40
Local clock offset: 1.428 ms
Remote clock offset: -27.92 ms


# Below is generated by plot.py at 2019-03-19 12:22:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 103.04 Mbit/s
95th percentile per-packet one-way delay: 324.493 ms
Loss rate: 3.71%
-- Flow 1:
Average throughput: 103.04 Mbit/s
95th percentile per-packet one-way delay: 324.493 ms
Loss rate: 3.71%
```
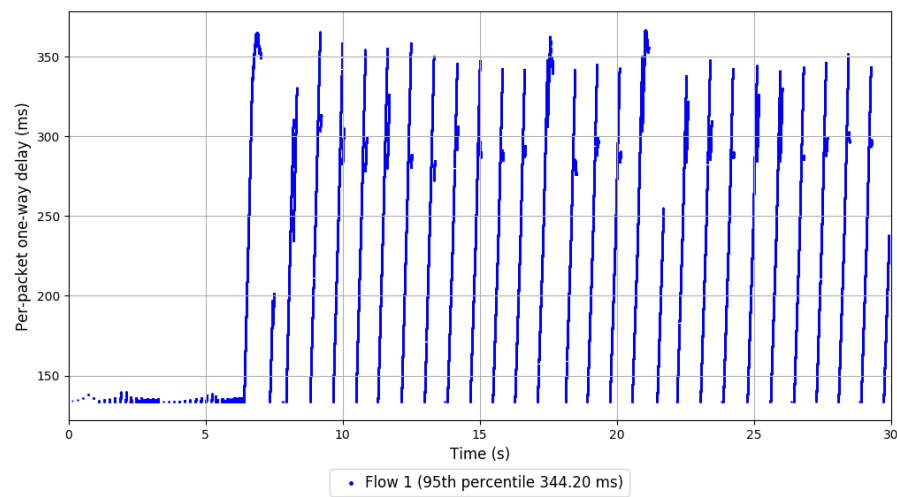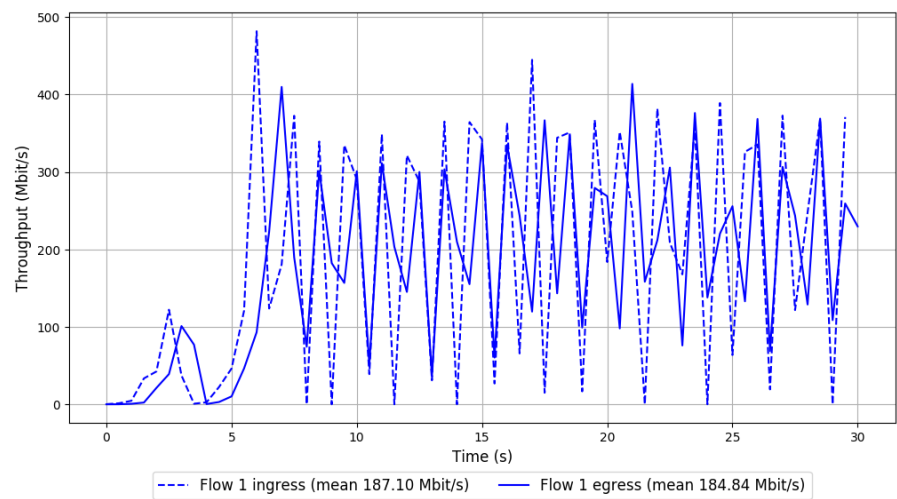
Run 4: Report of Verus — Data Link

```
Run 5: Statistics of Verus

Start at: 2019-03-19 11:10:41
End at: 2019-03-19 11:11:11
Local clock offset: -0.338 ms
Remote clock offset: -39.354 ms


# Below is generated by plot.py at 2019-03-19 12:22:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 184.84 Mbit/s
95th percentile per-packet one-way delay: 344.199 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 184.84 Mbit/s
95th percentile per-packet one-way delay: 344.199 ms
Loss rate: 1.33%
```
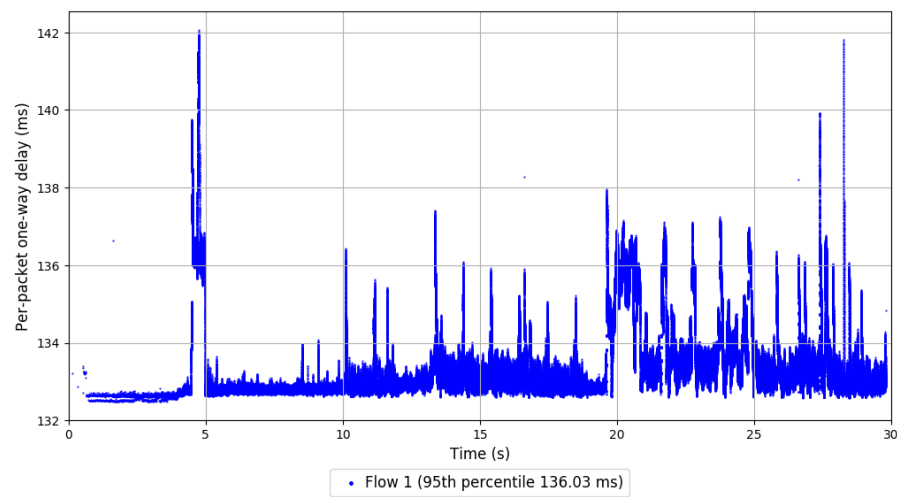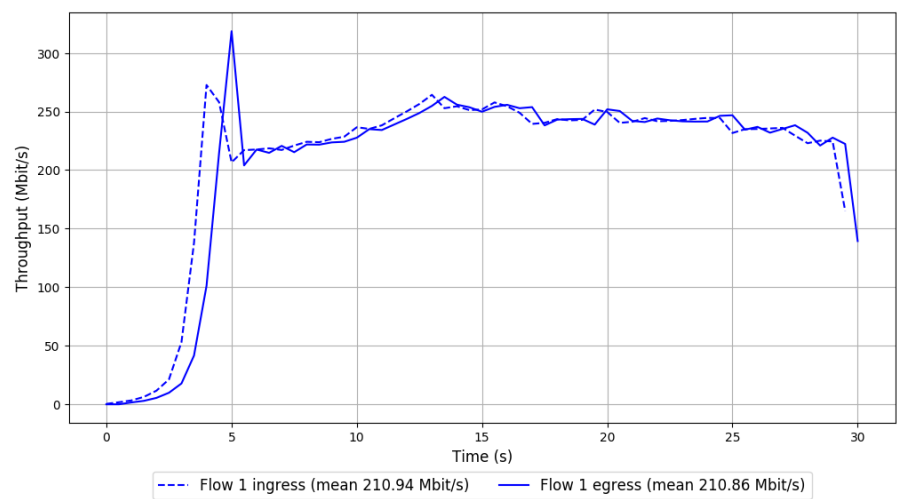
Run 5: Report of Verus — Data Link

```
Run 1: Statistics of PCC-Vivace

Start at: 2019-03-19 09:02:46
End at: 2019-03-19 09:03:16
Local clock offset: 0.305 ms
Remote clock offset: -38.545 ms

# Below is generated by plot.py at 2019-03-19 12:22:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 210.86 Mbit/s
95th percentile per-packet one-way delay: 136.029 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 210.86 Mbit/s
95th percentile per-packet one-way delay: 136.029 ms
Loss rate: 0.68%
```

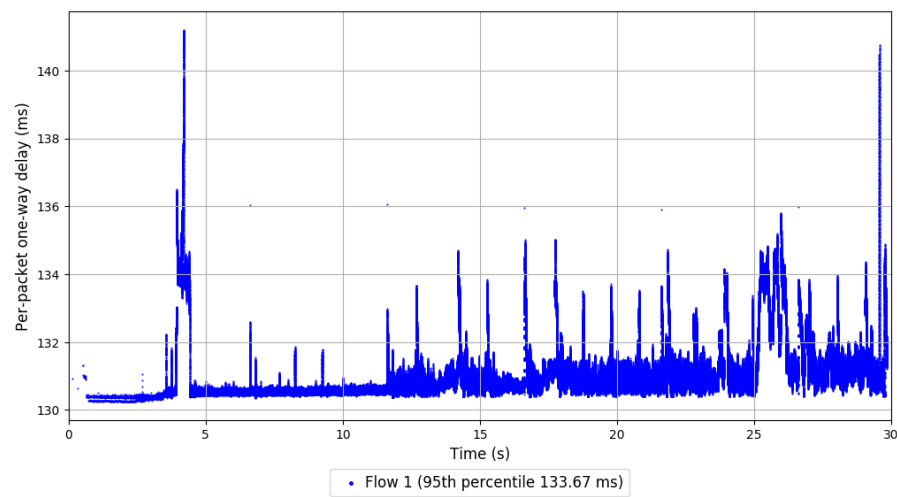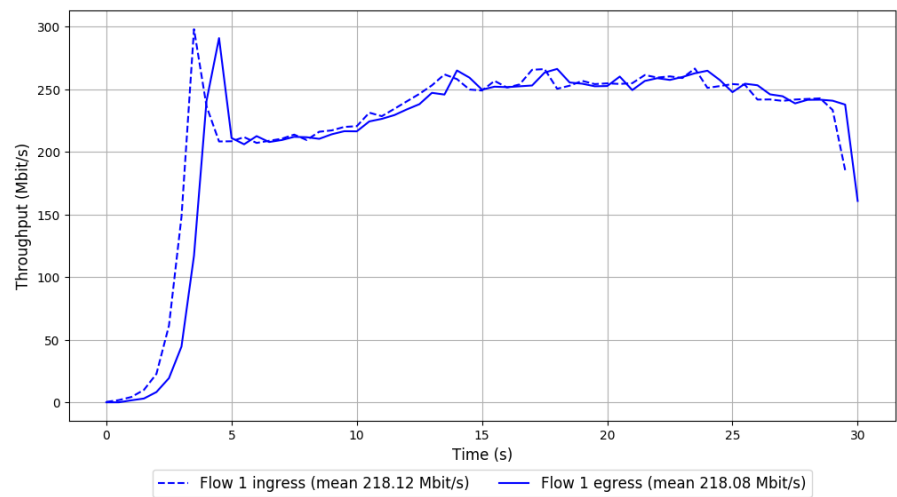Run 1: Report of PCC-Vivace — Data Link

```
Run 2: Statistics of PCC-Vivace

Start at: 2019-03-19 09:36:47
End at: 2019-03-19 09:37:17
Local clock offset: 0.775 ms
Remote clock offset: -36.807 ms


# Below is generated by plot.py at 2019-03-19 12:23:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.08 Mbit/s
95th percentile per-packet one-way delay: 133.671 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 218.08 Mbit/s
95th percentile per-packet one-way delay: 133.671 ms
Loss rate: 0.66%
```

Run 2: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 218.12 Mbit/s) —— Flow 1 egress (mean 218.08 Mbit/s)

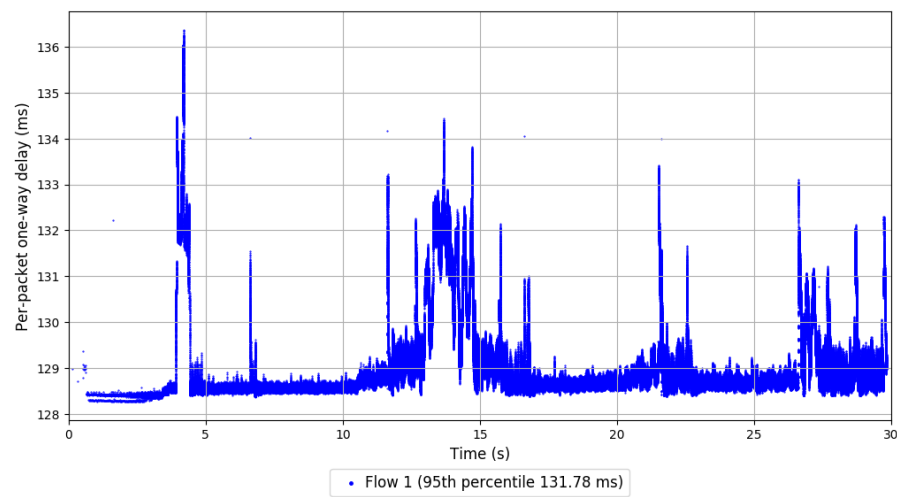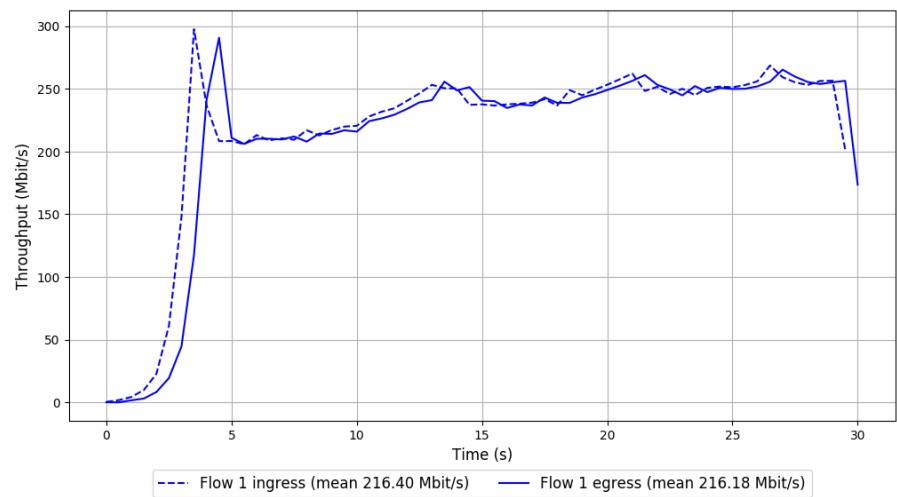
• Flow 1 (95th percentile 133.67 ms)

```
Run 3: Statistics of PCC-Vivace

Start at: 2019-03-19 10:10:42
End at: 2019-03-19 10:11:12
Local clock offset: 1.638 ms
Remote clock offset: -31.996 ms

# Below is generated by plot.py at 2019-03-19 12:23:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 216.18 Mbit/s
95th percentile per-packet one-way delay: 131.778 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 216.18 Mbit/s
95th percentile per-packet one-way delay: 131.778 ms
Loss rate: 0.75%
```

Run 3: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 216.40 Mbit/s) --- Flow 1 egress (mean 216.18 Mbit/s)
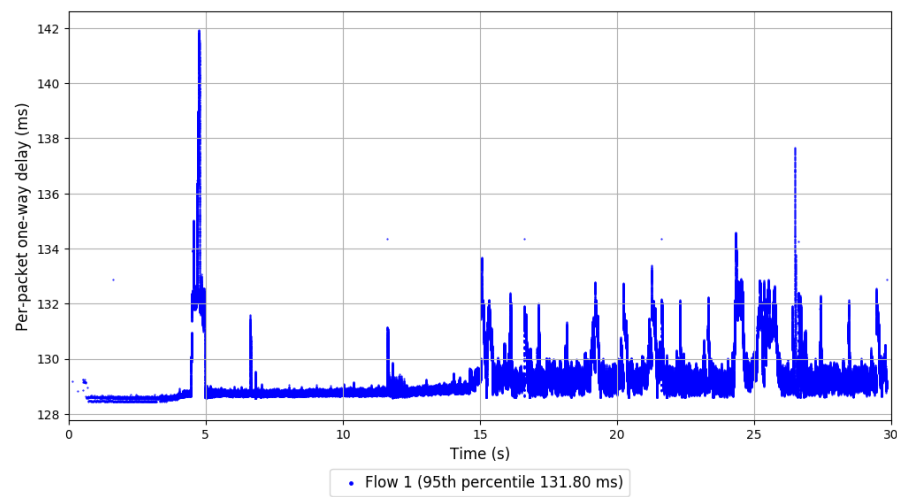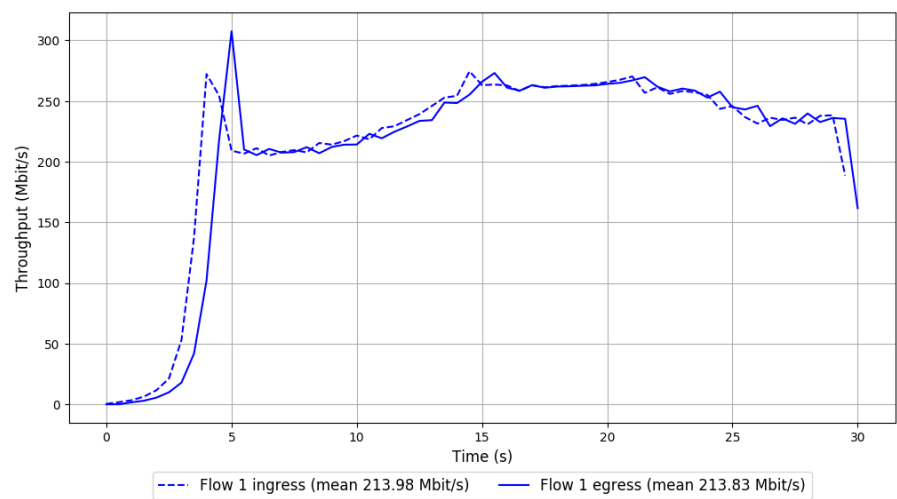

Flow 1 (95th percentile 131.78 ms)

```
Run 4: Statistics of PCC-Vivace

Start at: 2019-03-19 10:50:14
End at: 2019-03-19 10:50:44
Local clock offset: -0.09 ms
Remote clock offset: -36.276 ms


# Below is generated by plot.py at 2019-03-19 12:23:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 213.83 Mbit/s
95th percentile per-packet one-way delay: 131.798 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 213.83 Mbit/s
95th percentile per-packet one-way delay: 131.798 ms
Loss rate: 0.70%
```

Run 4: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 213.98 Mbit/s)   Flow 1 egress (mean 213.83 Mbit/s)
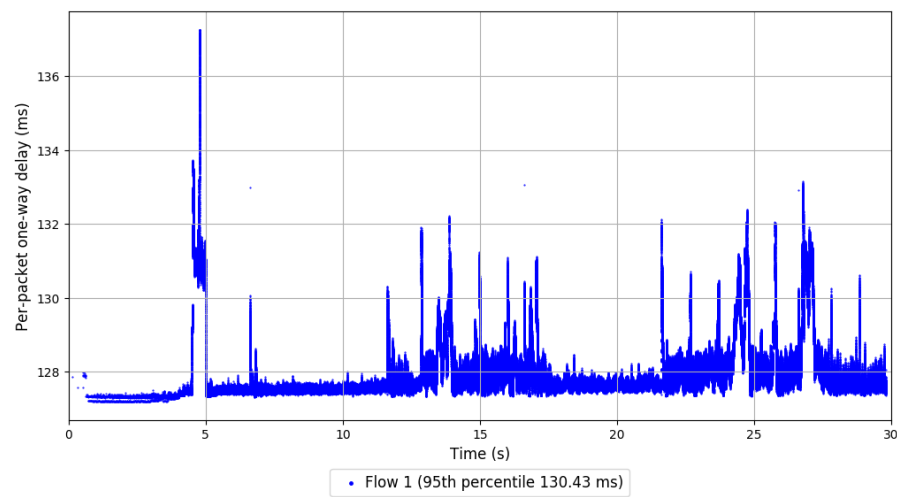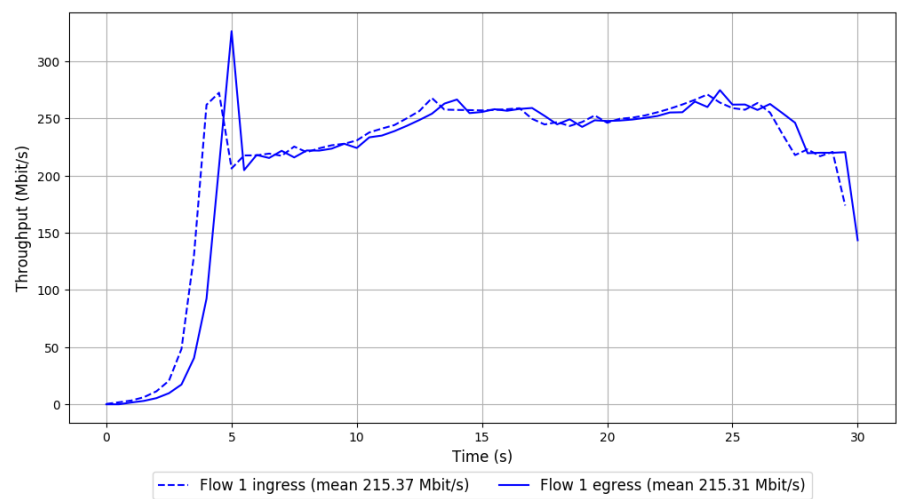

Flow 1 (95th percentile 131.80 ms)

```
Run 5: Statistics of PCC-Vivace

Start at: 2019-03-19 11:29:42
End at: 2019-03-19 11:30:12
Local clock offset: -0.884 ms
Remote clock offset: -33.058 ms


# Below is generated by plot.py at 2019-03-19 12:23:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 215.31 Mbit/s
95th percentile per-packet one-way delay: 130.431 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 215.31 Mbit/s
95th percentile per-packet one-way delay: 130.431 ms
Loss rate: 0.67%
```

Run 5: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 215.37 Mbit/s)   Flow 1 egress (mean 215.31 Mbit/s)
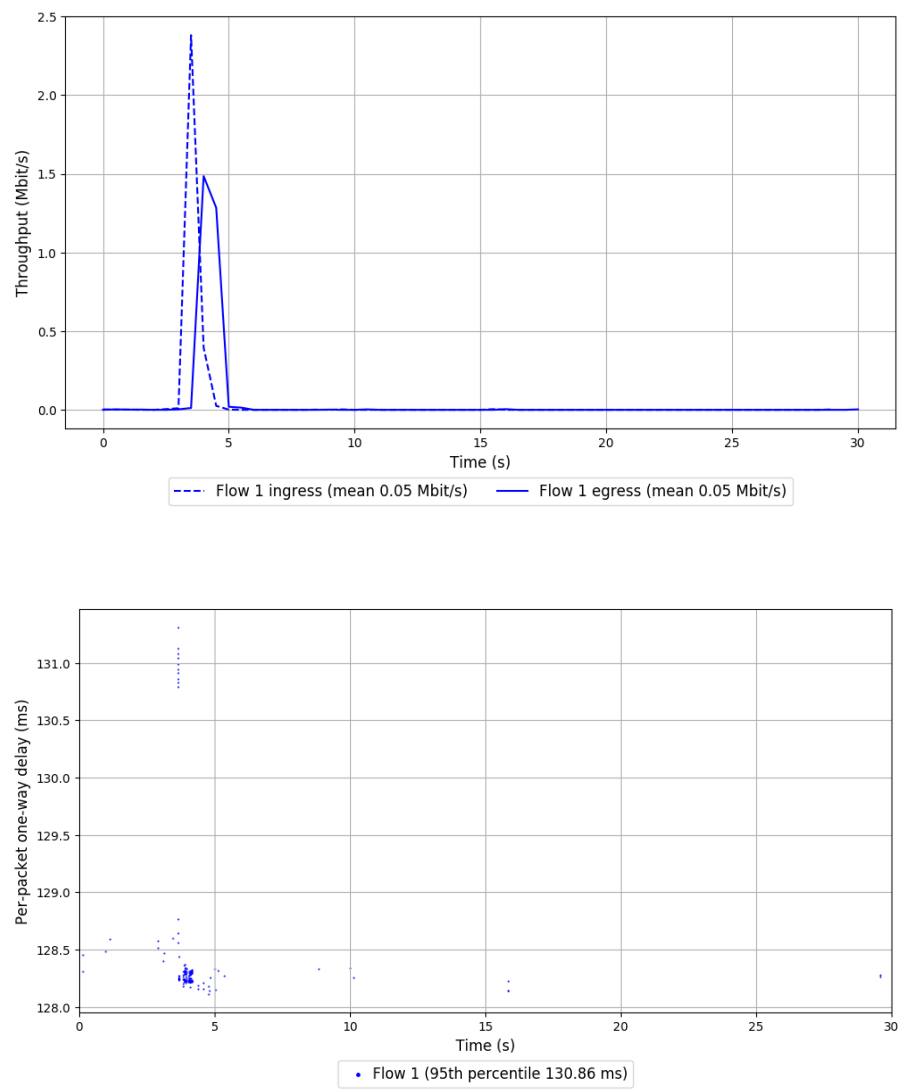

Flow 1 (95th percentile 130.43 ms)

```
Run 1: Statistics of WebRTC media

Start at: 2019-03-19 08:54:25
End at: 2019-03-19 08:54:55
Local clock offset: 1.355 ms
Remote clock offset: -31.83 ms


# Below is generated by plot.py at 2019-03-19 12:23:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 130.860 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 130.860 ms
Loss rate: 0.00%
```
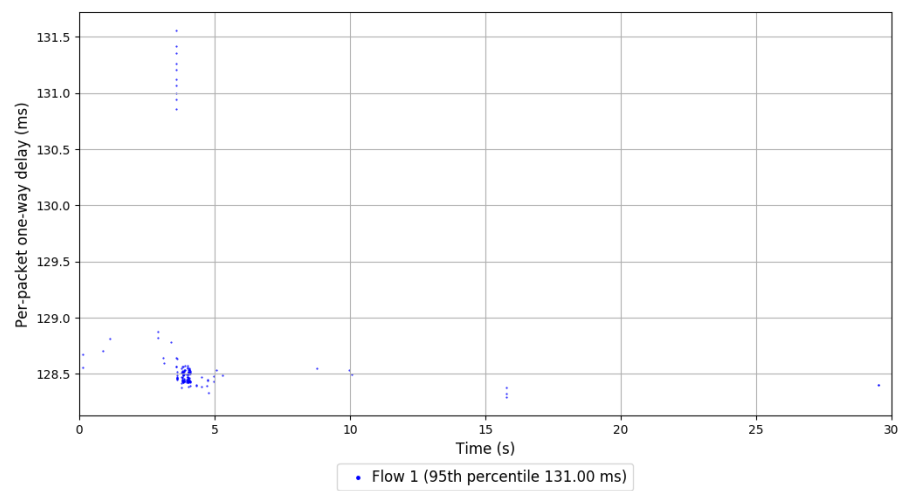
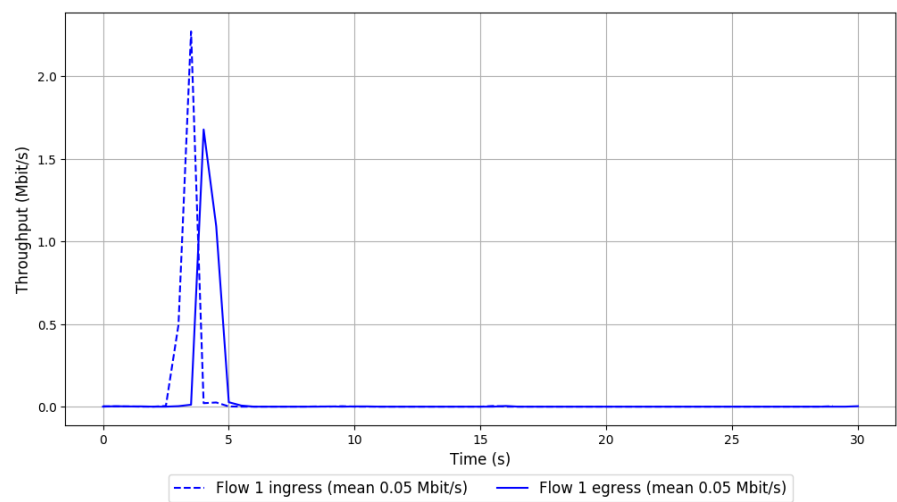Run 1: Report of WebRTC media — Data Link

```
Run 2: Statistics of WebRTC media

Start at: 2019-03-19 09:34:12
End at: 2019-03-19 09:34:42
Local clock offset: 0.53 ms
Remote clock offset: -35.085 ms


# Below is generated by plot.py at 2019-03-19 12:23:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 131.000 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 131.000 ms
Loss rate: 0.00%
```

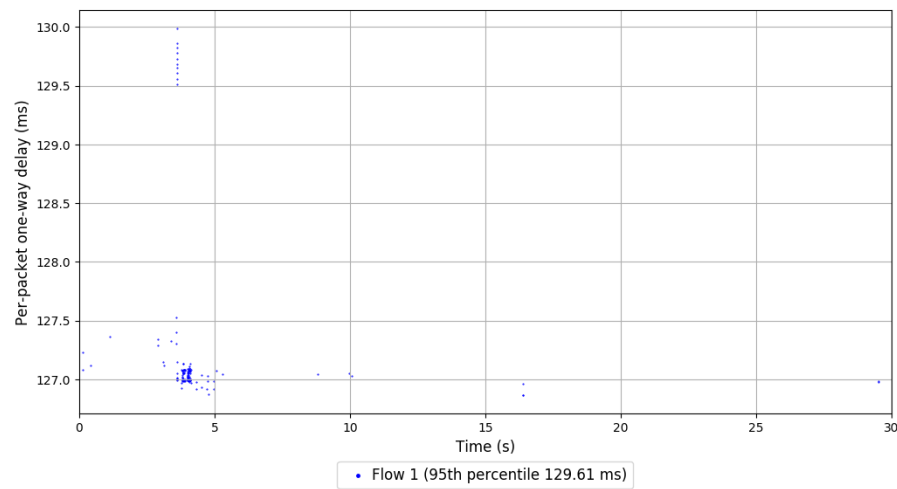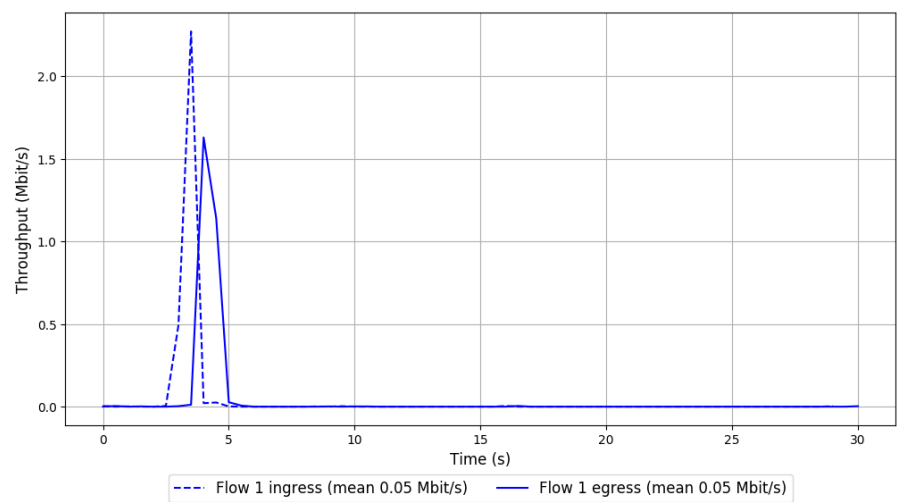Run 2: Report of WebRTC media — Data Link

```
Run 3: Statistics of WebRTC media

Start at: 2019-03-19 10:08:09
End at: 2019-03-19 10:08:39
Local clock offset: -0.301 ms
Remote clock offset: -33.805 ms


# Below is generated by plot.py at 2019-03-19 12:23:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 129.608 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 129.608 ms
Loss rate: 0.00%
```

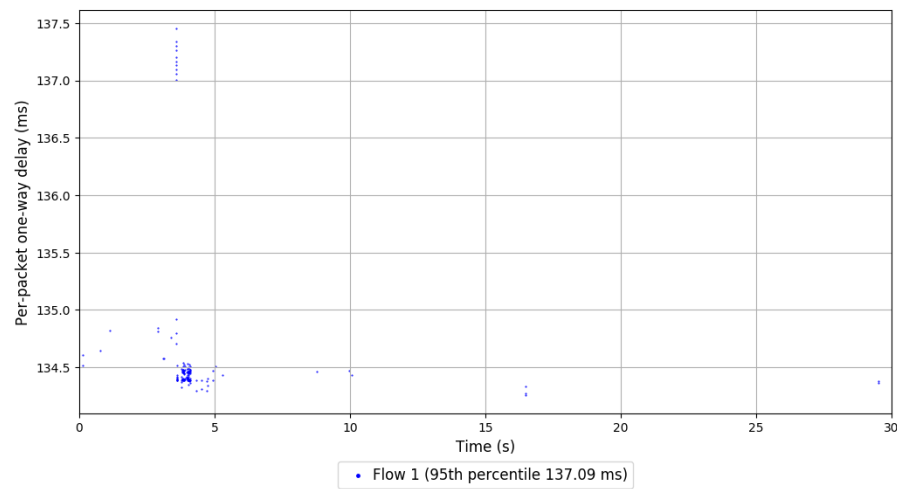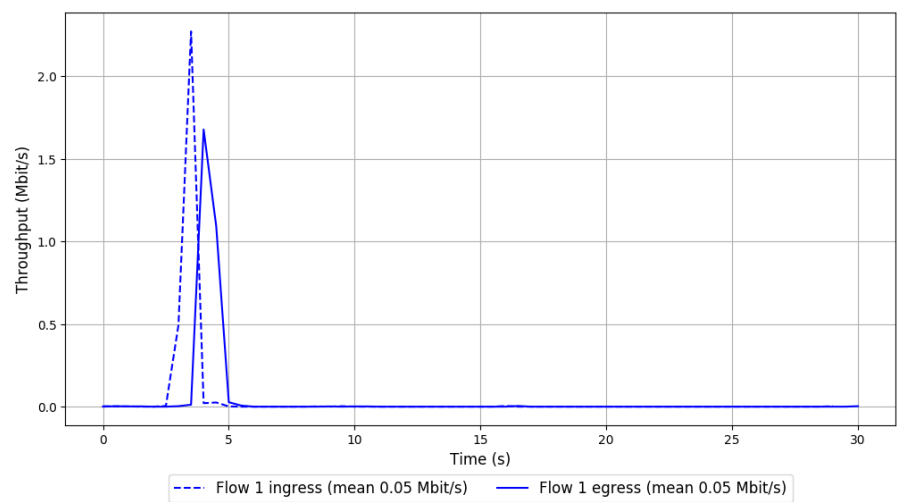Run 3: Report of WebRTC media — Data Link

```
Run 4: Statistics of WebRTC media

Start at: 2019-03-19 10:47:31
End at: 2019-03-19 10:48:01
Local clock offset: 1.132 ms
Remote clock offset: -39.617 ms


# Below is generated by plot.py at 2019-03-19 12:23:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 137.093 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 137.093 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link

```
Run 5: Statistics of WebRTC media

Start at: 2019-03-19 11:27:09
End at: 2019-03-19 11:27:39
Local clock offset: -1.302 ms
Remote clock offset: -39.167 ms


# Below is generated by plot.py at 2019-03-19 12:23:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.785 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.785 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link