Pantheon Report

Generated at 2021-03-08 01:31:36 (UTC).
Data path: $(local) \rightarrow (remote)$.
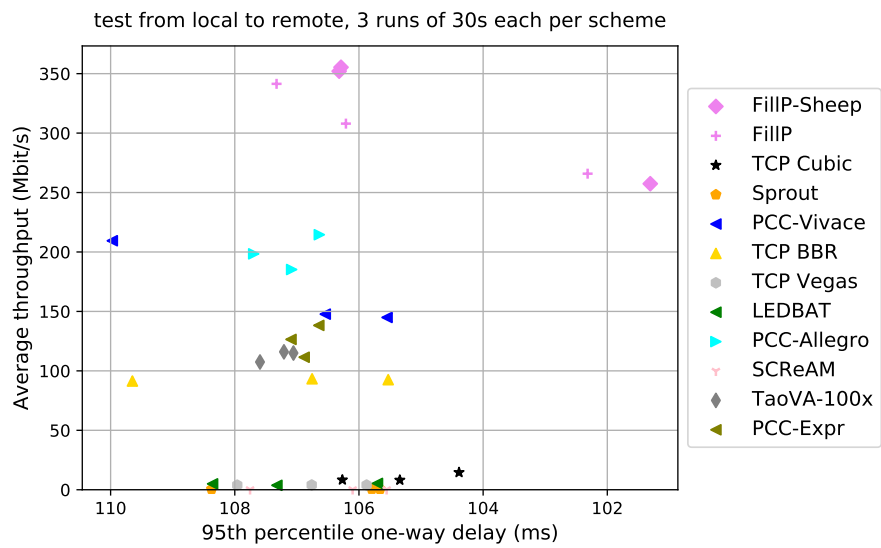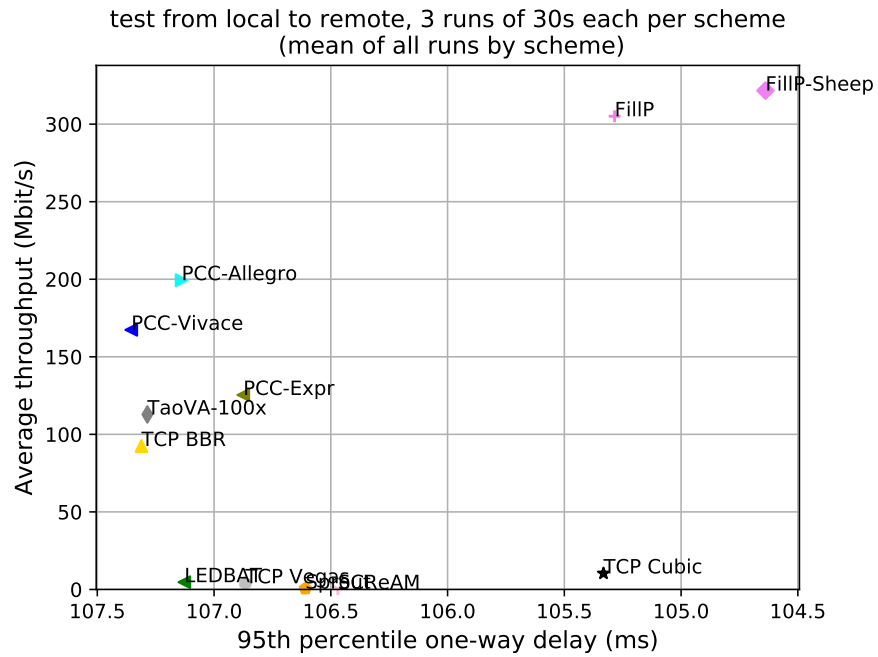Repeated the test of 12 congestion control schemes 3 times.
Each test lasted for 30 seconds running 1 flow.

```
System info:
Linux 5.4.0-1038-aws
net.core.default_qdisc = fq_codel
net.core.rmem_default = 212992
net.core.rmem_max = 212992
net.core.wmem_default = 212992
net.core.wmem_max = 212992
net.ipv4.tcp_rmem = 4096 131072 6291456
net.ipv4.tcp_wmem = 4096 16384 4194304

Git summary:
branch: master @ c824a7ad2232f1863c86fec3d41cceec04b7e8ff
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfe58e562f4
third_party/indigo @ 463d89b09699a57bfdfbae351646df6a60040b90
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
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
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from local to remote, 3 runs of 30s each per scheme
(mean of all runs by scheme)

test from local to remote, 3 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	3	92.47	107.31	0.19
TCP Cubic	3	10.33	105.33	0.41
FillP	3	305.08	105.28	8.11
FillP-Sheep	3	321.62	104.64	4.53
LEDBAT	3	4.68	107.13	0.19
PCC-Allegro	3	199.40	107.14	9.73
PCC-Expr	3	125.38	106.88	1.62
SCReAM	3	0.22	106.47	0.00
Sprout	3	0.56	106.61	0.00
TaoVA-100x	3	112.82	107.29	5.02
TCP Vegas	3	3.98	106.87	0.42
PCC-Vivace	3	167.36	107.35	1.43

```
Run 1: Statistics of TCP BBR

Start at: 2021-03-08 00:56:38
End at: 2021-03-08 00:57:08

# Below is generated by plot.py at 2021-03-08 01:22:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.46 Mbit/s
95th percentile per-packet one-way delay: 109.649 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 91.46 Mbit/s
95th percentile per-packet one-way delay: 109.649 ms
Loss rate: 0.21%
```
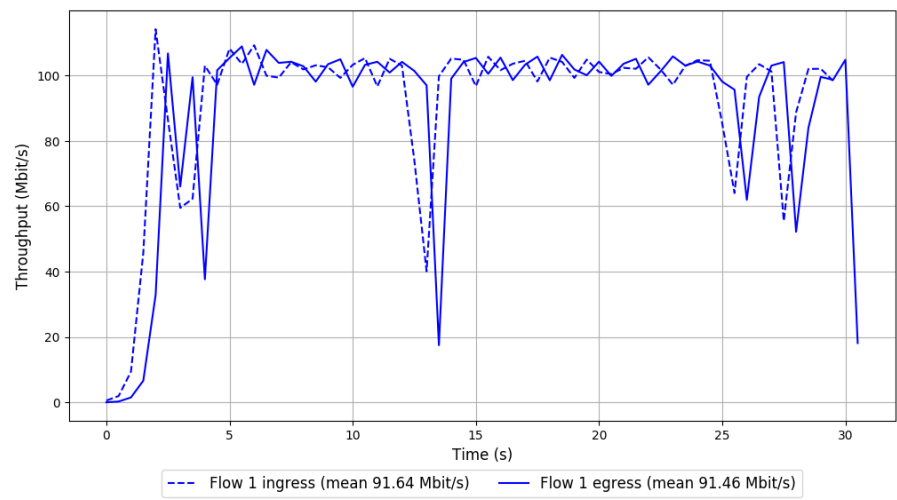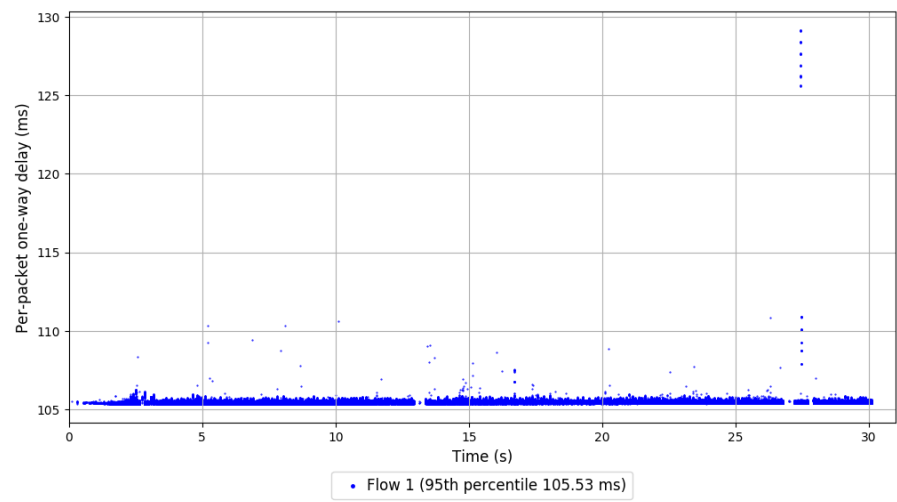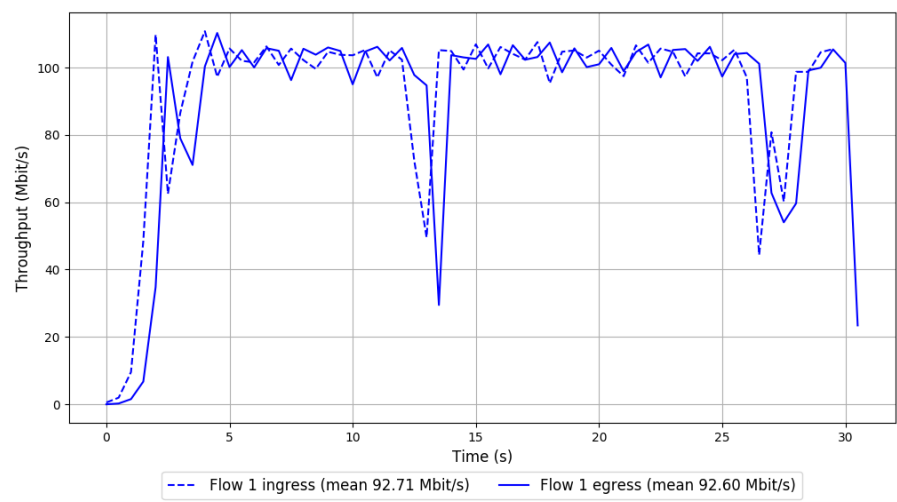
Run 1: Report of TCP BBR — Data Link
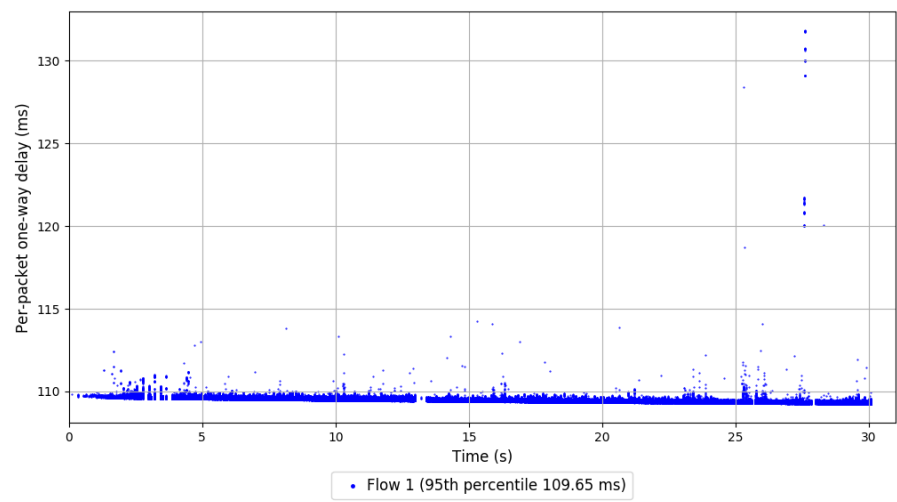
```
Run 2: Statistics of TCP BBR

Start at: 2021-03-08 01:06:49
End at: 2021-03-08 01:07:19

# Below is generated by plot.py at 2021-03-08 01:22:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.60 Mbit/s
95th percentile per-packet one-way delay: 105.529 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 92.60 Mbit/s
95th percentile per-packet one-way delay: 105.529 ms
Loss rate: 0.12%
```
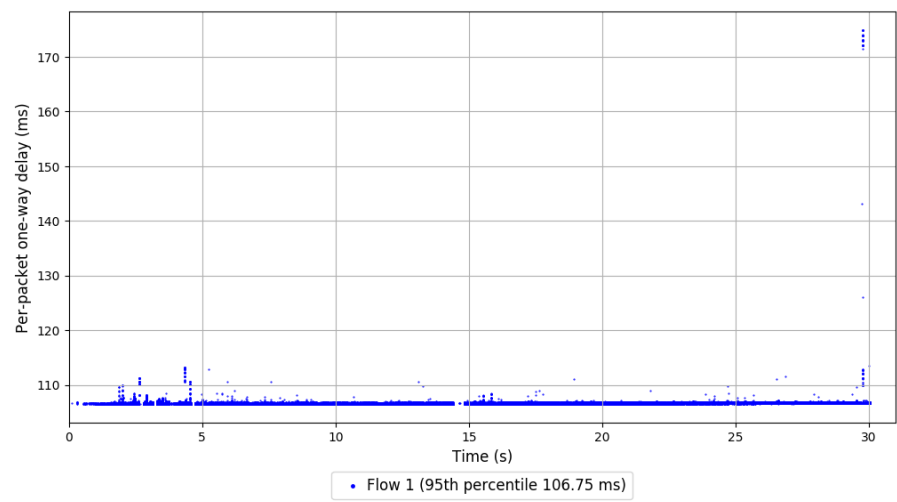
Run 2: Report of TCP BBR — Data Link

```
Run 3: Statistics of TCP BBR

Start at: 2021-03-08 01:16:58
End at: 2021-03-08 01:17:28

# Below is generated by plot.py at 2021-03-08 01:23:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.36 Mbit/s
95th percentile per-packet one-way delay: 106.755 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 93.36 Mbit/s
95th percentile per-packet one-way delay: 106.755 ms
Loss rate: 0.25%
```
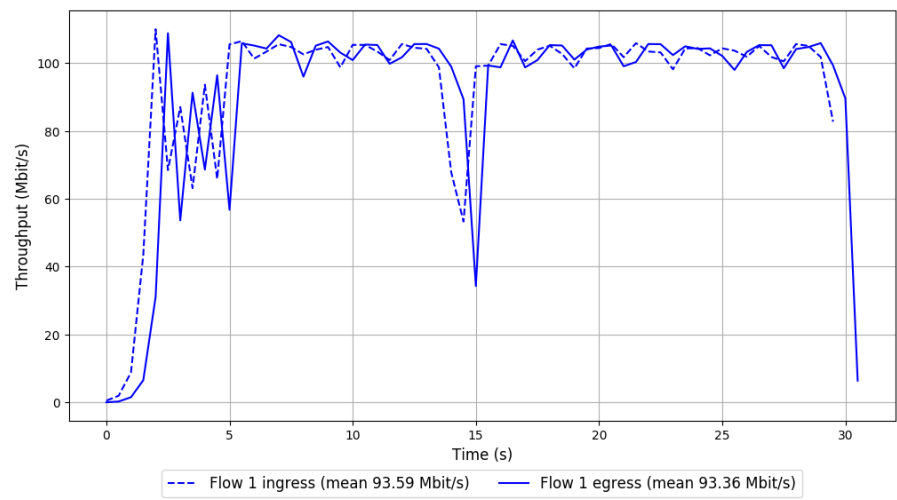
Run 3: Report of TCP BBR — Data Link

- - - - Flow 1 ingress (mean 93.59 Mbit/s) —— Flow 1 egress (mean 93.36 Mbit/s)

• Flow 1 (95th percentile 106.75 ms)

9

```
Run 1: Statistics of TCP Cubic

Start at: 2021-03-08 00:54:11
End at: 2021-03-08 00:54:41

# Below is generated by plot.py at 2021-03-08 01:23:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 14.55 Mbit/s
95th percentile per-packet one-way delay: 104.388 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 14.55 Mbit/s
95th percentile per-packet one-way delay: 104.388 ms
Loss rate: 0.17%
```
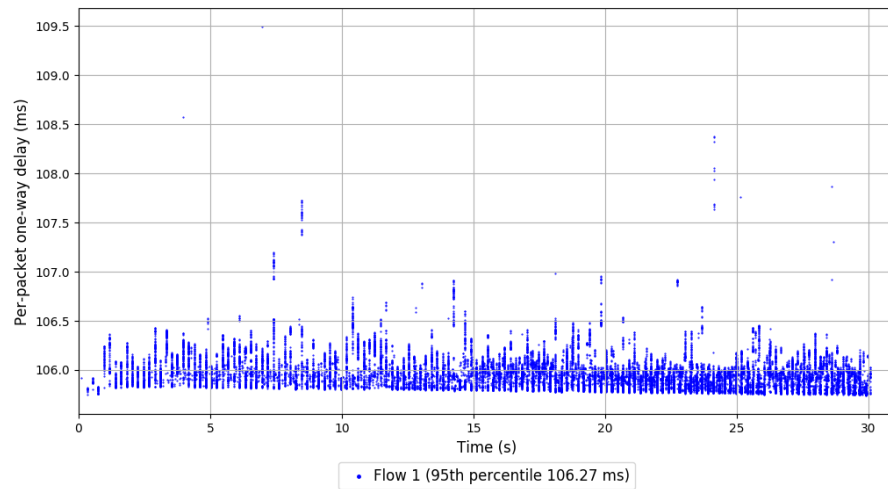
Run 1: Report of TCP Cubic — Data Link
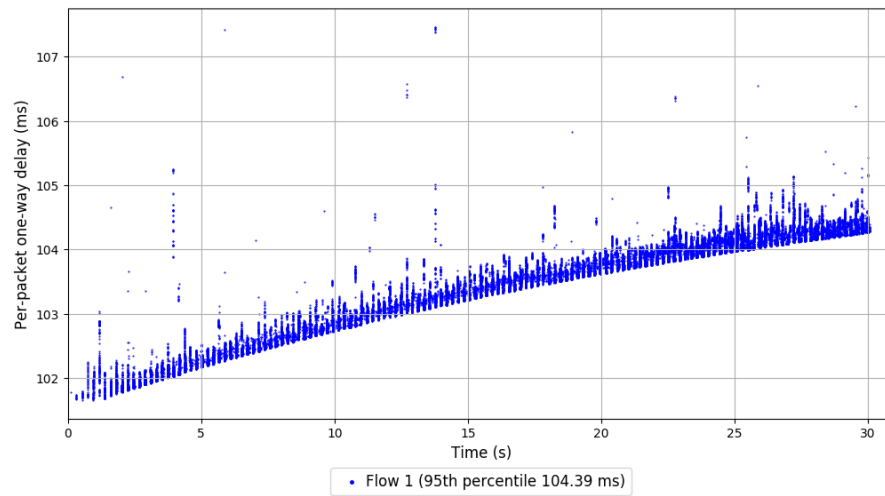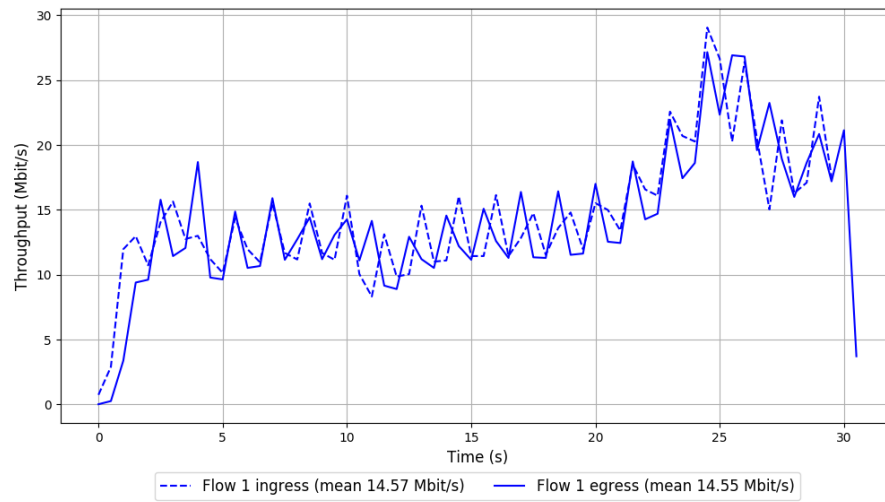
```
Run 2: Statistics of TCP Cubic

Start at: 2021-03-08 01:04:25
End at: 2021-03-08 01:04:55

# Below is generated by plot.py at 2021-03-08 01:23:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.30 Mbit/s
95th percentile per-packet one-way delay: 106.267 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 8.30 Mbit/s
95th percentile per-packet one-way delay: 106.267 ms
Loss rate: 0.38%
```
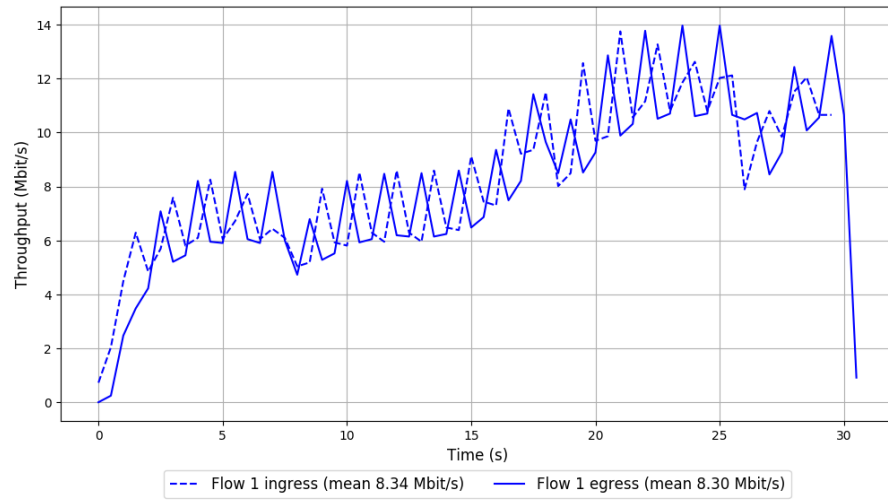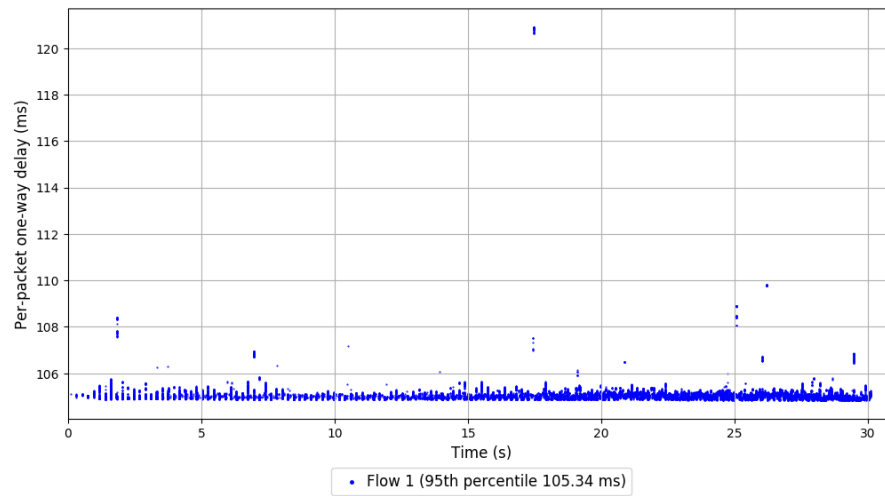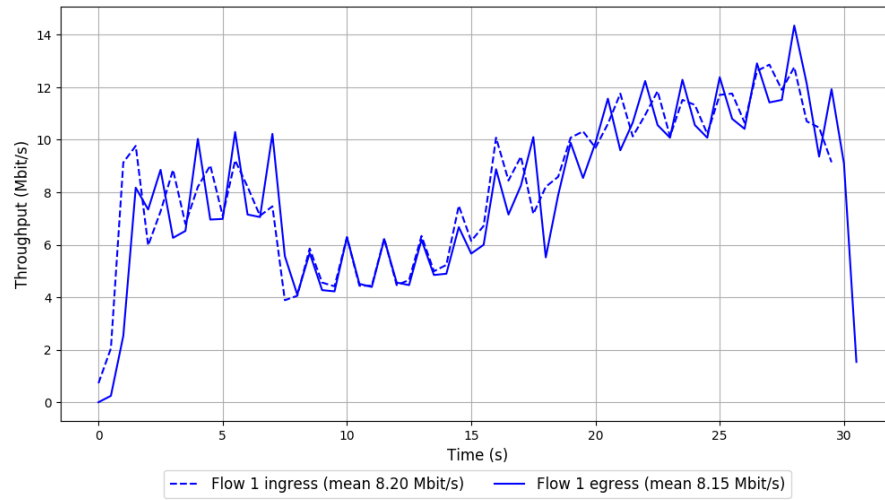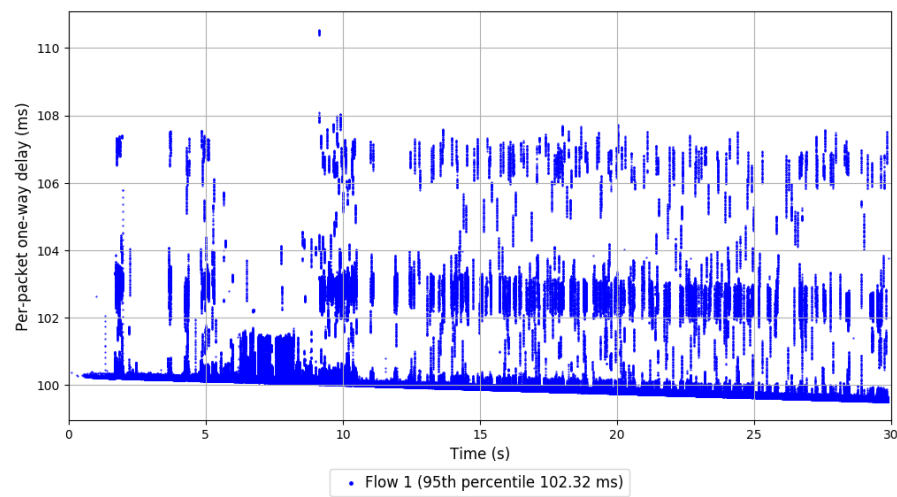
Run 2: Report of TCP Cubic — Data Link

```
Run 3: Statistics of TCP Cubic

Start at: 2021-03-08 01:14:35
End at: 2021-03-08 01:15:05


# Below is generated by plot.py at 2021-03-08 01:23:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.15 Mbit/s
95th percentile per-packet one-way delay: 105.342 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 8.15 Mbit/s
95th percentile per-packet one-way delay: 105.342 ms
Loss rate: 0.68%
```

Run 3: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 8.20 Mbit/s) — — — — Flow 1 egress (mean 8.15 Mbit/s)

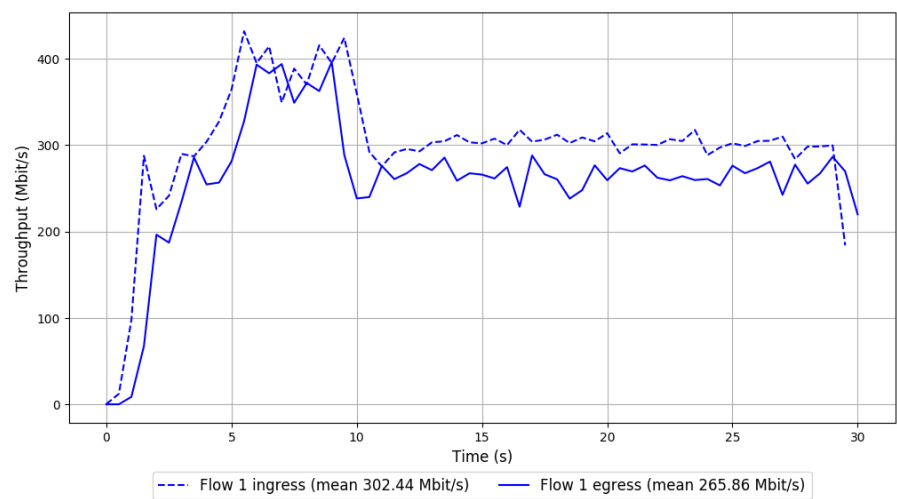

• Flow 1 (95th percentile 105.34 ms)

```
Run 1: Statistics of FillP

Start at: 2021-03-08 00:53:15
End at: 2021-03-08 00:53:45

# Below is generated by plot.py at 2021-03-08 01:24:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 265.86 Mbit/s
95th percentile per-packet one-way delay: 102.317 ms
Loss rate: 12.09%
-- Flow 1:
Average throughput: 265.86 Mbit/s
95th percentile per-packet one-way delay: 102.317 ms
Loss rate: 12.09%
```

Run 1: Report of FillP — Data Link

Flow 1 ingress (mean 302.44 Mbit/s) — — — Flow 1 egress (mean 265.86 Mbit/s)

• Flow 1 (95th percentile 102.32 ms)

```
Run 2: Statistics of FillP

Start at: 2021-03-08 01:03:26
End at: 2021-03-08 01:03:56

# Below is generated by plot.py at 2021-03-08 01:24:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 341.42 Mbit/s
95th percentile per-packet one-way delay: 107.327 ms
Loss rate: 2.74%
-- Flow 1:
Average throughput: 341.42 Mbit/s
95th percentile per-packet one-way delay: 107.327 ms
Loss rate: 2.74%
```
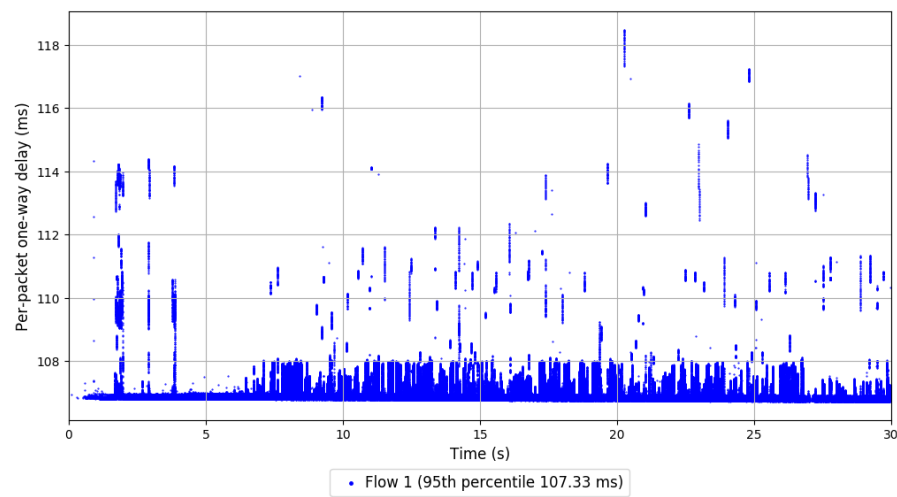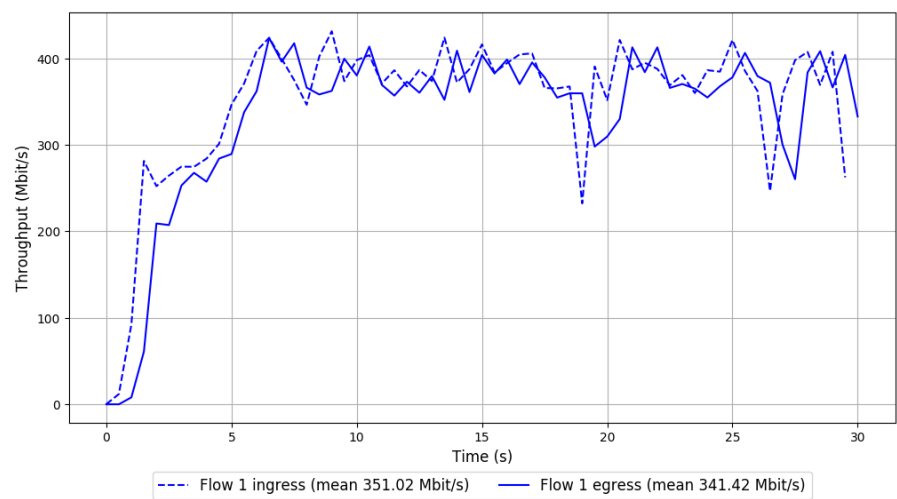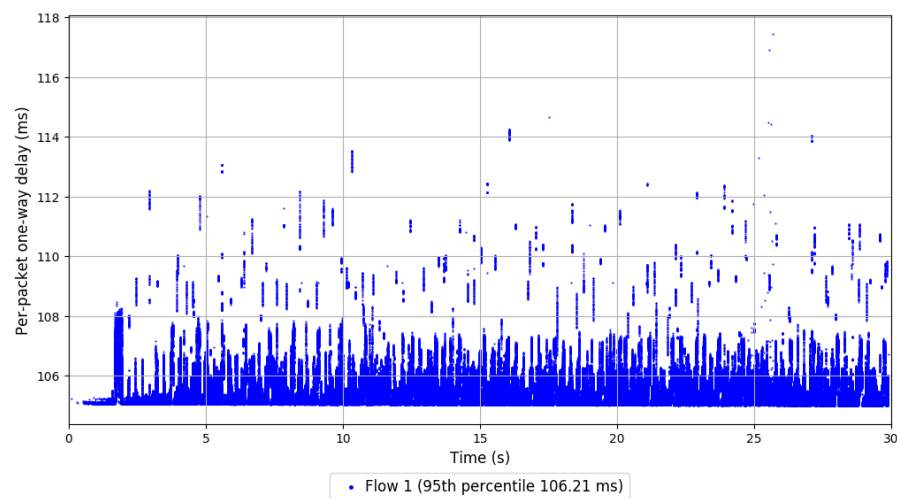
Run 2: Report of FillP — Data Link

```
Run 3: Statistics of FillP

Start at: 2021-03-08 01:13:37
End at: 2021-03-08 01:14:07

# Below is generated by plot.py at 2021-03-08 01:25:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 307.96 Mbit/s
95th percentile per-packet one-way delay: 106.210 ms
Loss rate: 9.51%
-- Flow 1:
Average throughput: 307.96 Mbit/s
95th percentile per-packet one-way delay: 106.210 ms
Loss rate: 9.51%
```
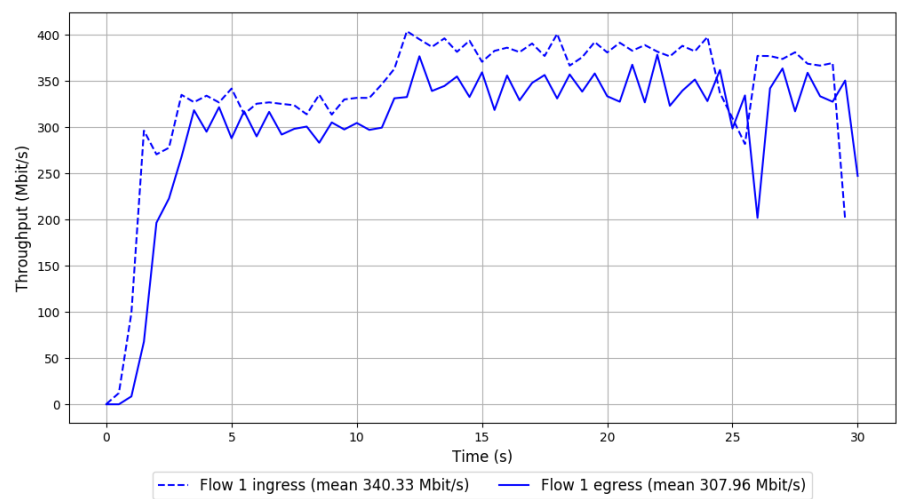
Run 3: Report of FillP — Data Link

```
Run 1: Statistics of FillP-Sheep

Start at: 2021-03-08 00:52:20
End at: 2021-03-08 00:52:50

# Below is generated by plot.py at 2021-03-08 01:25:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 257.41 Mbit/s
95th percentile per-packet one-way delay: 101.308 ms
Loss rate: 8.50%
-- Flow 1:
Average throughput: 257.41 Mbit/s
95th percentile per-packet one-way delay: 101.308 ms
Loss rate: 8.50%
```
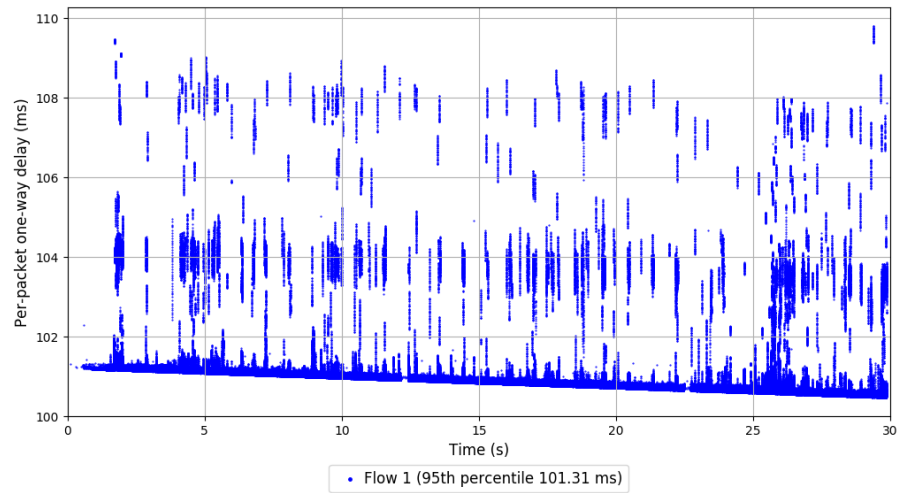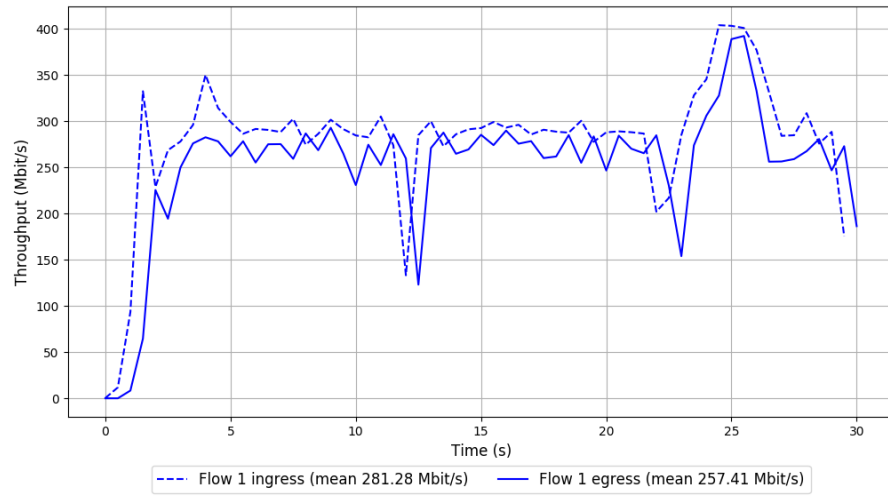
Run 1: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 281.28 Mbit/s) ----   Flow 1 egress (mean 257.41 Mbit/s) ——

• Flow 1 (95th percentile 101.31 ms)

```
Run 2: Statistics of FillP-Sheep

Start at: 2021-03-08 01:02:27
End at: 2021-03-08 01:02:57

# Below is generated by plot.py at 2021-03-08 01:27:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 355.37 Mbit/s
95th percentile per-packet one-way delay: 106.289 ms
Loss rate: 2.00%
-- Flow 1:
Average throughput: 355.37 Mbit/s
95th percentile per-packet one-way delay: 106.289 ms
Loss rate: 2.00%
```

Run 2: Report of FillP-Sheep — Data Link
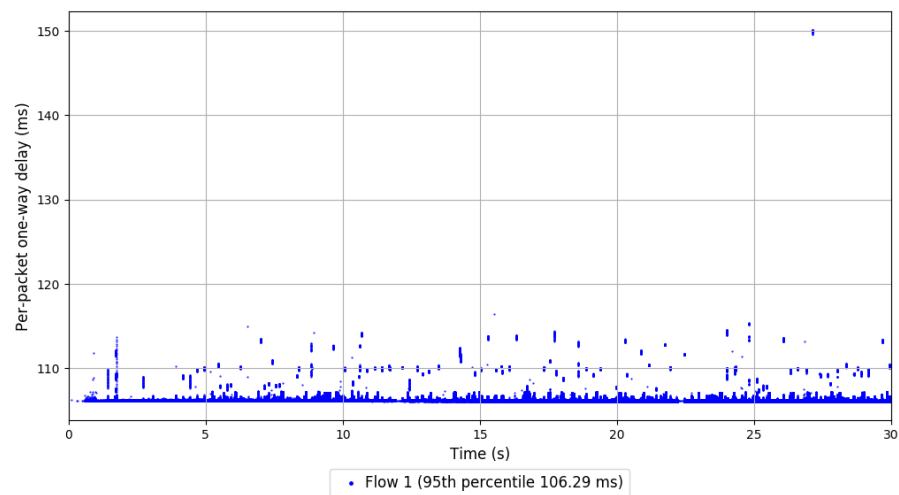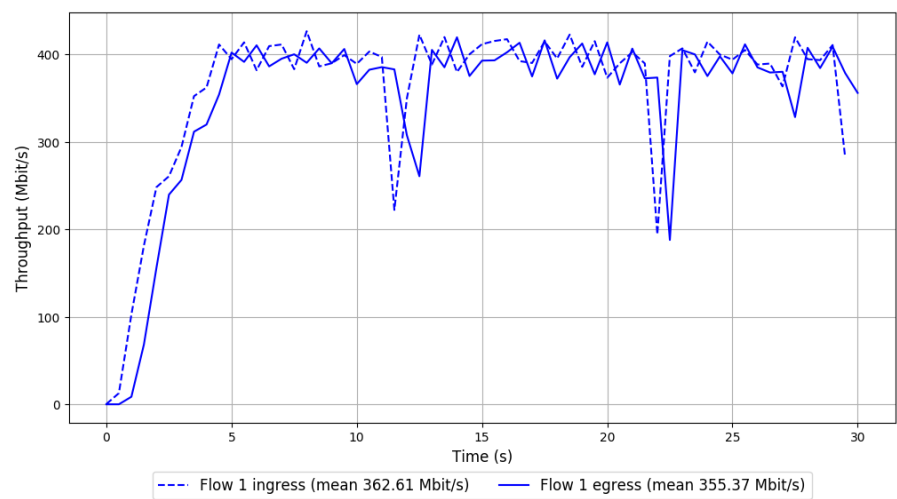
```
Run 3: Statistics of FillP-Sheep

Start at: 2021-03-08 01:12:38
End at: 2021-03-08 01:13:08

# Below is generated by plot.py at 2021-03-08 01:27:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 352.09 Mbit/s
95th percentile per-packet one-way delay: 106.319 ms
Loss rate: 3.09%
-- Flow 1:
Average throughput: 352.09 Mbit/s
95th percentile per-packet one-way delay: 106.319 ms
Loss rate: 3.09%
```
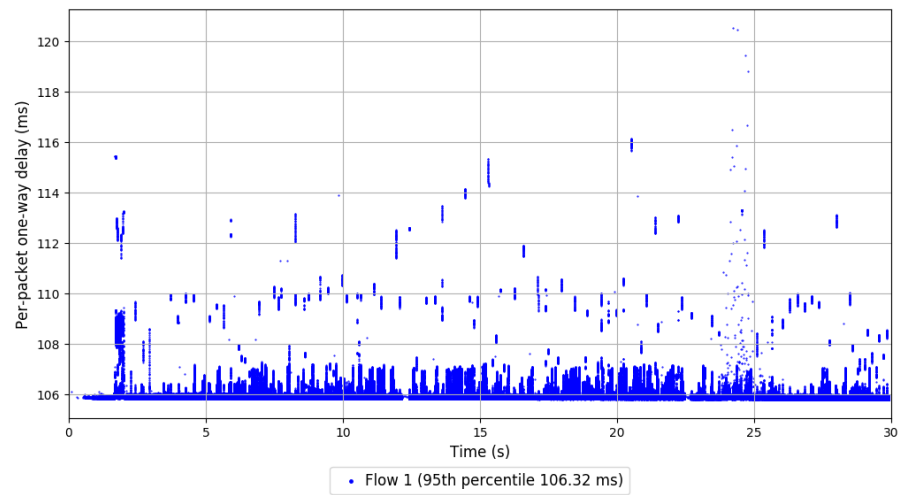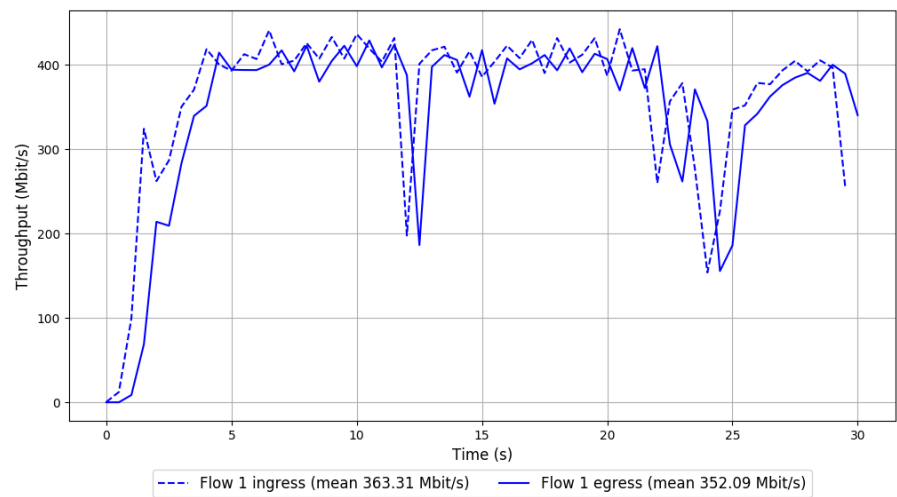
Run 3: Report of FillP-Sheep — Data Link

```
Run 1: Statistics of LEDBAT

Start at: 2021-03-08 00:58:12
End at: 2021-03-08 00:58:42

# Below is generated by plot.py at 2021-03-08 01:27:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.96 Mbit/s
95th percentile per-packet one-way delay: 108.358 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 4.96 Mbit/s
95th percentile per-packet one-way delay: 108.358 ms
Loss rate: 0.34%
```
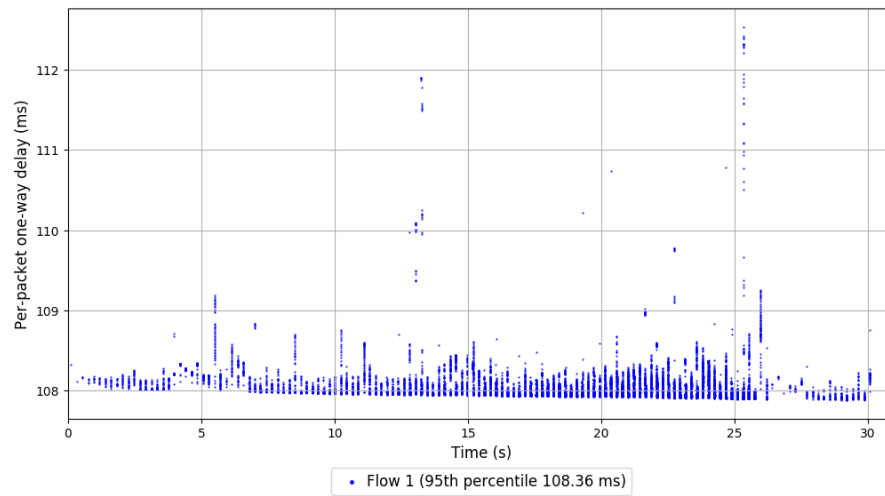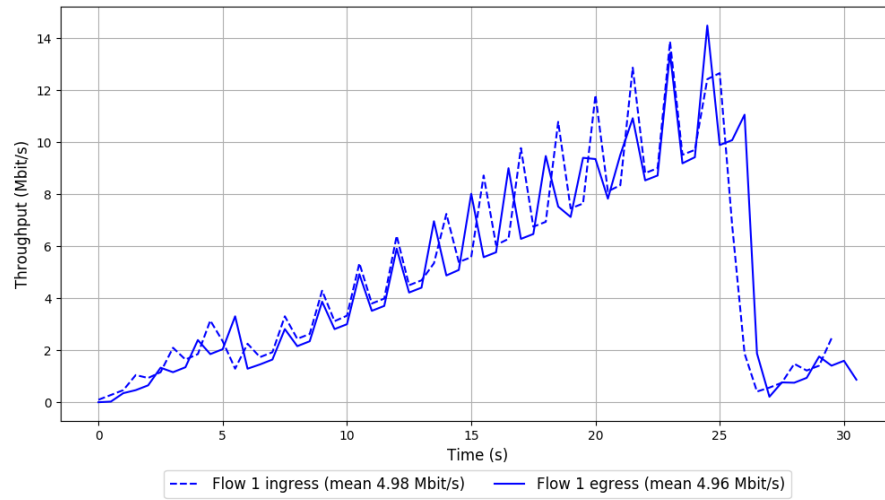
Run 1: Report of LEDBAT — Data Link

Flow 1 ingress (mean 4.98 Mbit/s) ---- Flow 1 egress (mean 4.96 Mbit/s) ——

• Flow 1 (95th percentile 108.36 ms)

```
Run 2: Statistics of LEDBAT

Start at: 2021-03-08 01:08:24
End at: 2021-03-08 01:08:54

# Below is generated by plot.py at 2021-03-08 01:27:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.35 Mbit/s
95th percentile per-packet one-way delay: 105.702 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 5.35 Mbit/s
95th percentile per-packet one-way delay: 105.702 ms
Loss rate: 0.10%
```
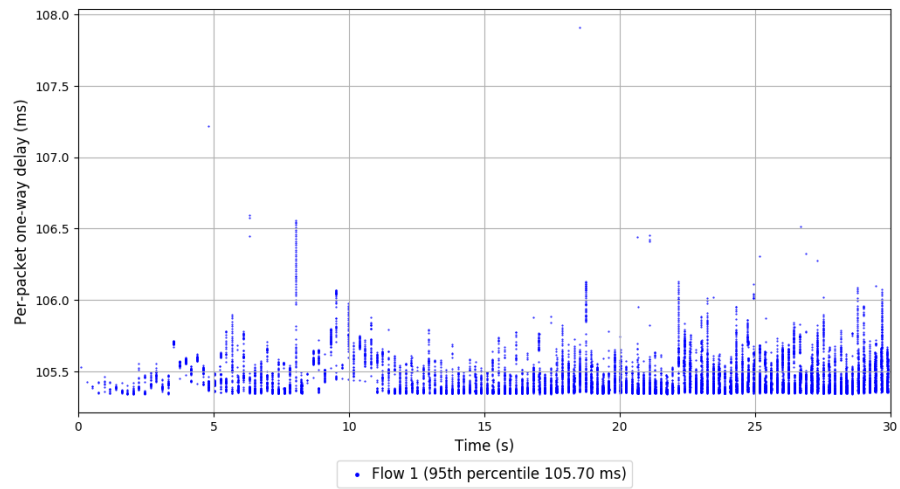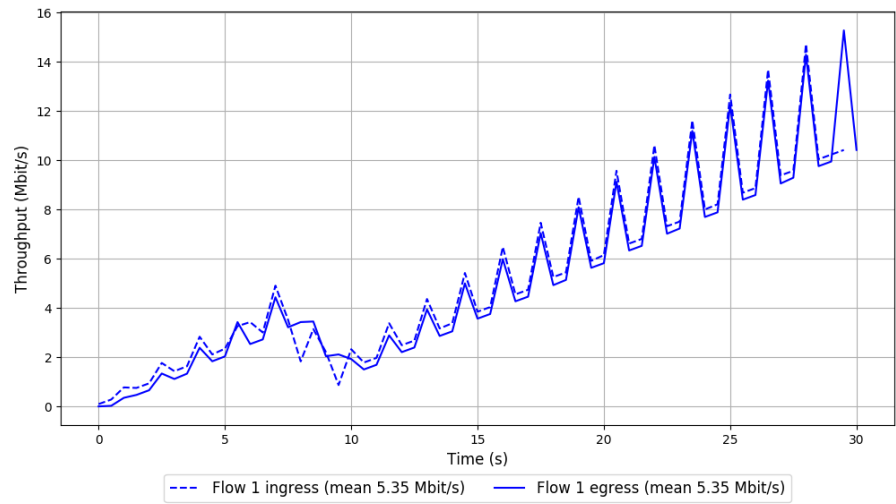
Run 2: Report of LEDBAT — Data Link

```
Run 3: Statistics of LEDBAT

Start at: 2021-03-08 01:18:32
End at: 2021-03-08 01:19:02

# Below is generated by plot.py at 2021-03-08 01:27:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.74 Mbit/s
95th percentile per-packet one-way delay: 107.322 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 3.74 Mbit/s
95th percentile per-packet one-way delay: 107.322 ms
Loss rate: 0.13%
```

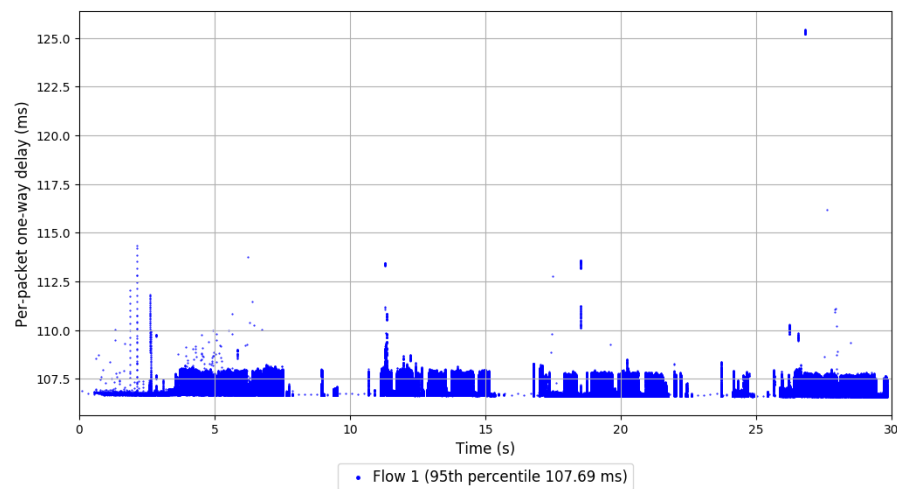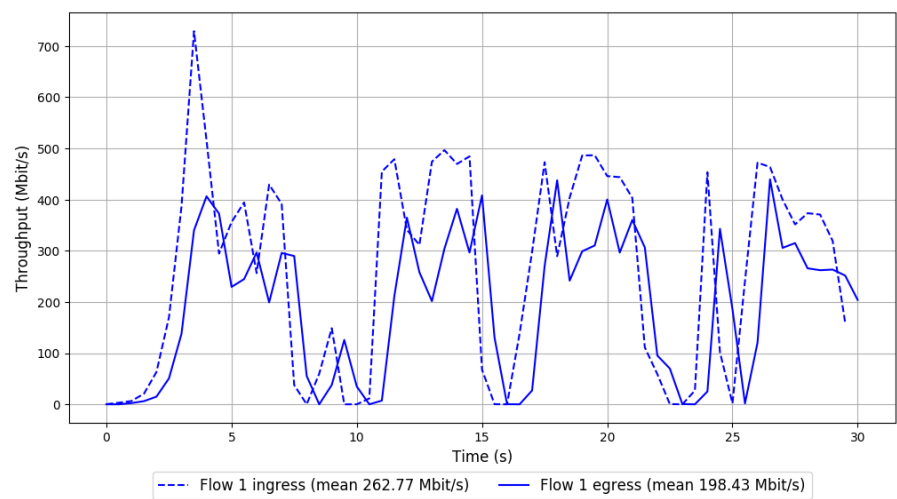Run 3: Report of LEDBAT — Data Link
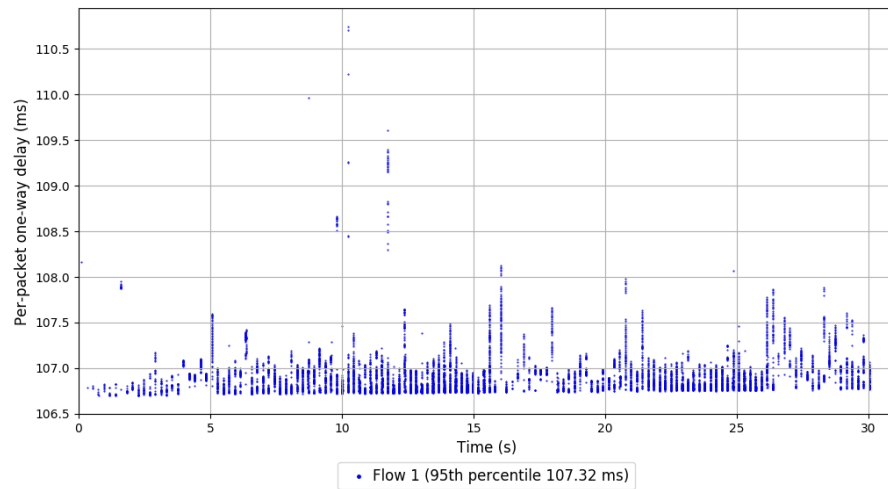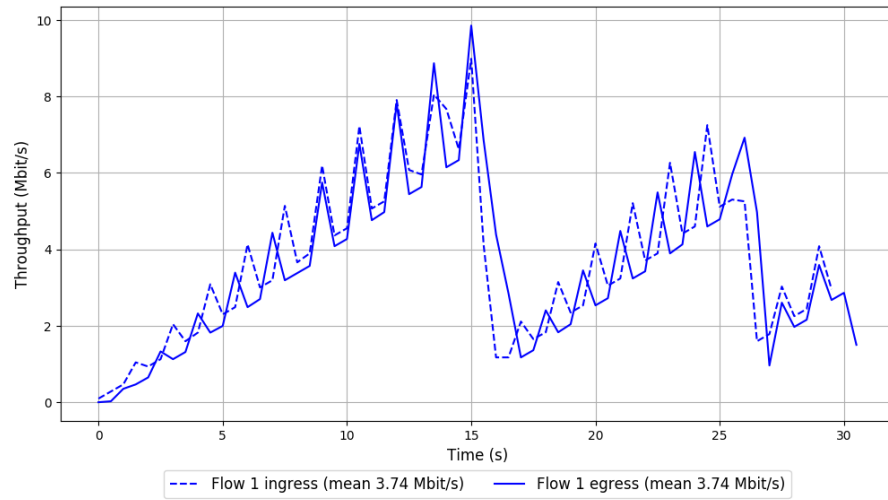
```
Run 1: Statistics of PCC-Allegro

Start at: 2021-03-08 00:58:57
End at: 2021-03-08 00:59:27

# Below is generated by plot.py at 2021-03-08 01:27:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 198.43 Mbit/s
95th percentile per-packet one-way delay: 107.695 ms
Loss rate: 24.48%
-- Flow 1:
Average throughput: 198.43 Mbit/s
95th percentile per-packet one-way delay: 107.695 ms
Loss rate: 24.48%
```

Run 1: Report of PCC-Allegro — Data Link

```
Run 2: Statistics of PCC-Allegro

Start at: 2021-03-08 01:09:08
End at: 2021-03-08 01:09:39

# Below is generated by plot.py at 2021-03-08 01:27:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 214.53 Mbit/s
95th percentile per-packet one-way delay: 106.638 ms
Loss rate: 3.25%
-- Flow 1:
Average throughput: 214.53 Mbit/s
95th percentile per-packet one-way delay: 106.638 ms
Loss rate: 3.25%
```
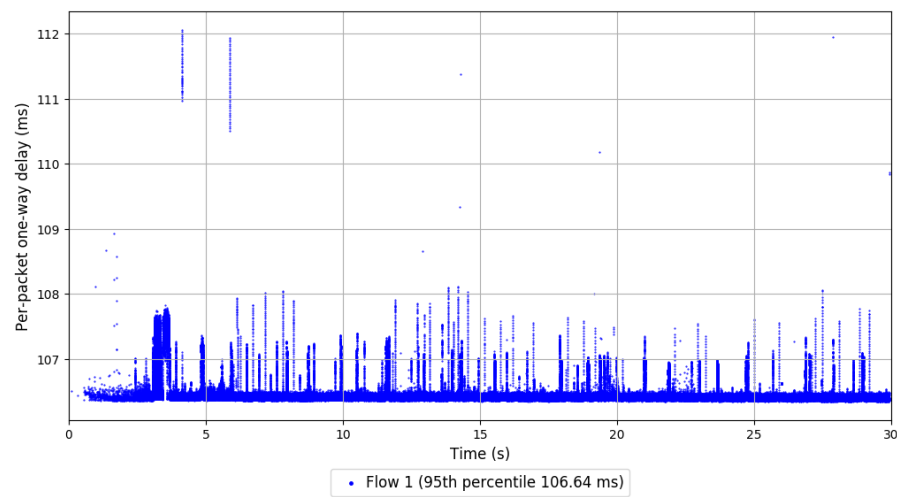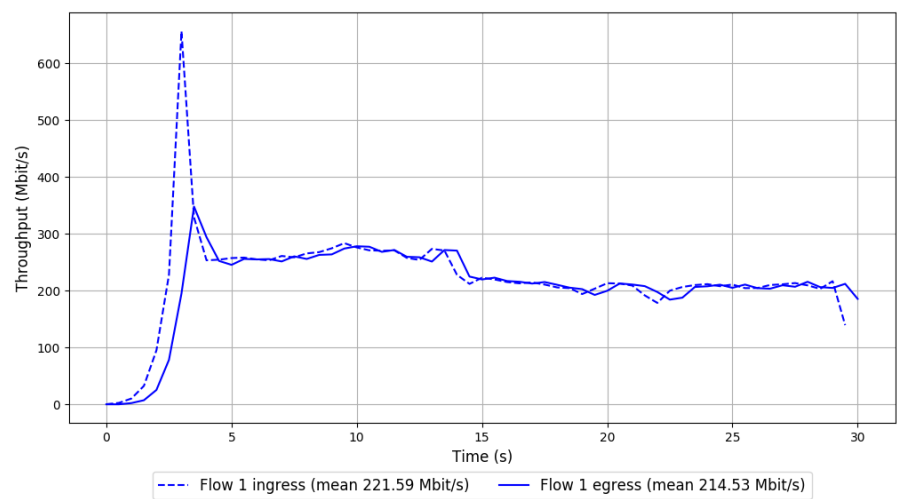
Run 2: Report of PCC-Allegro — Data Link

```
Run 3: Statistics of PCC-Allegro

Start at: 2021-03-08 01:19:17
End at: 2021-03-08 01:19:47

# Below is generated by plot.py at 2021-03-08 01:28:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 185.24 Mbit/s
95th percentile per-packet one-way delay: 107.084 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 185.24 Mbit/s
95th percentile per-packet one-way delay: 107.084 ms
Loss rate: 1.45%
```
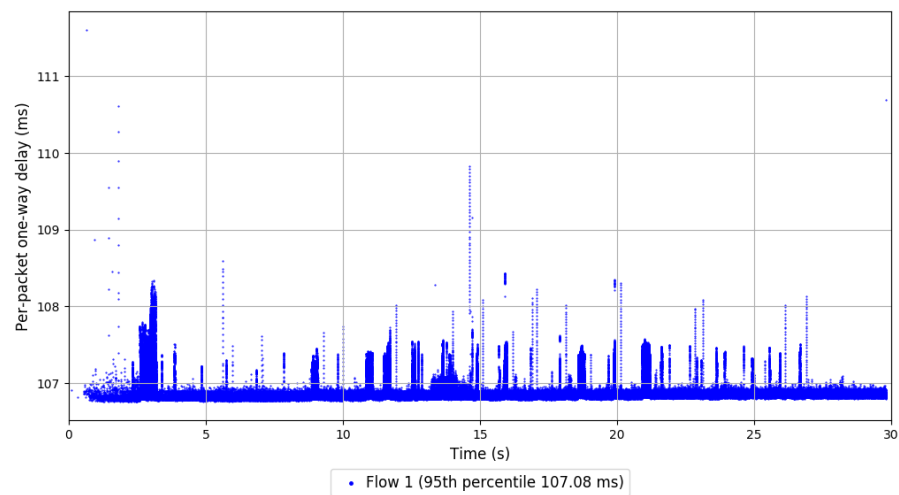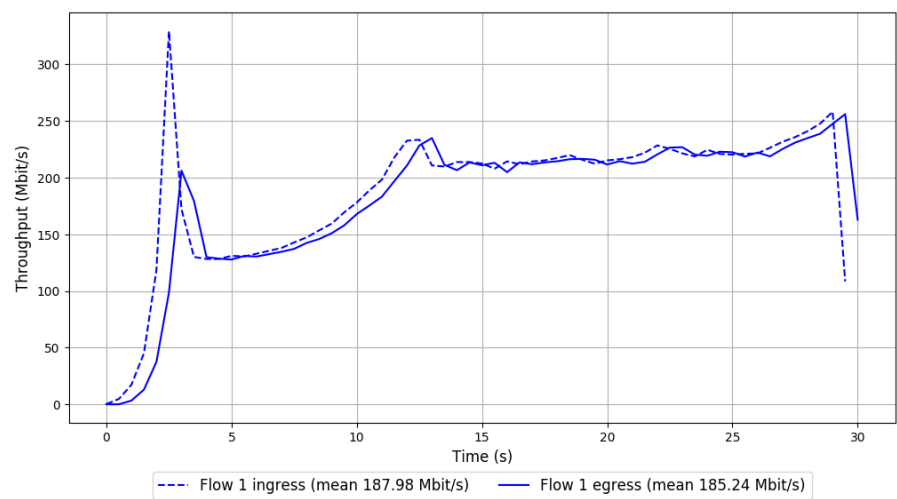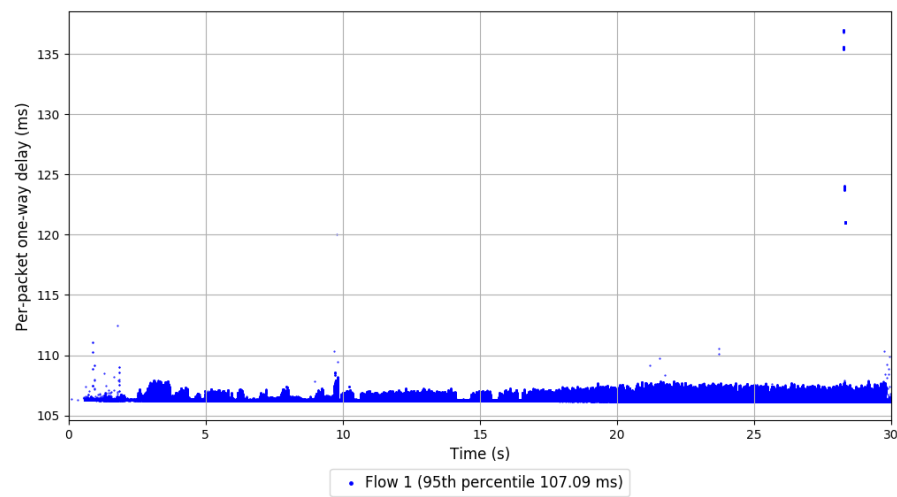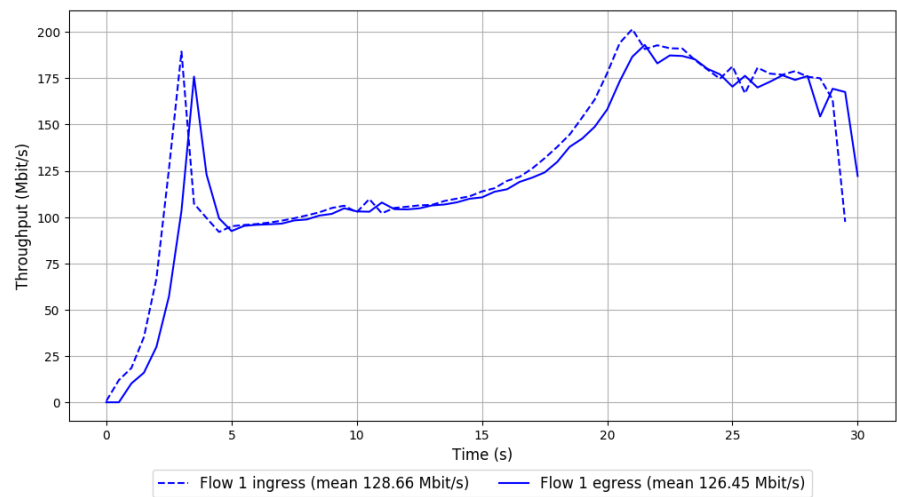
Run 3: Report of PCC-Allegro — Data Link

```
Run 1: Statistics of PCC-Expr

Start at: 2021-03-08 01:01:30
End at: 2021-03-08 01:02:00

# Below is generated by plot.py at 2021-03-08 01:28:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 126.45 Mbit/s
95th percentile per-packet one-way delay: 107.095 ms
Loss rate: 1.75%
-- Flow 1:
Average throughput: 126.45 Mbit/s
95th percentile per-packet one-way delay: 107.095 ms
Loss rate: 1.75%
```

Run 1: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 128.66 Mbit/s)   Flow 1 egress (mean 126.45 Mbit/s)
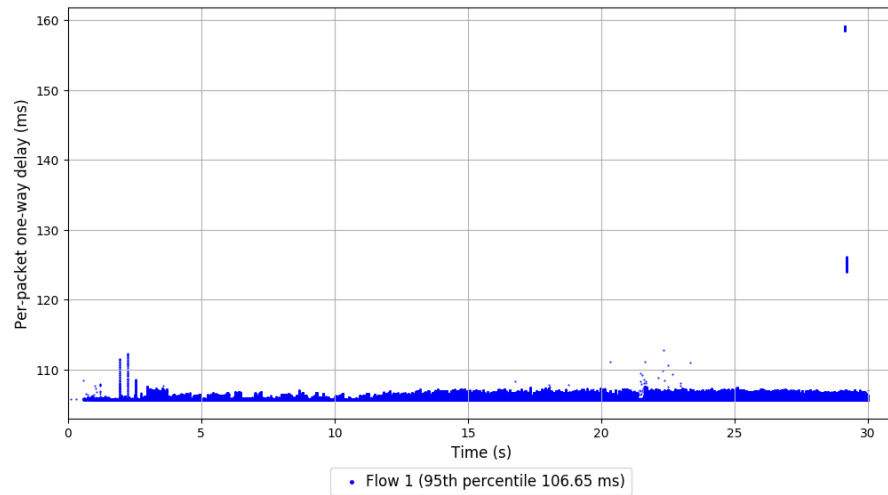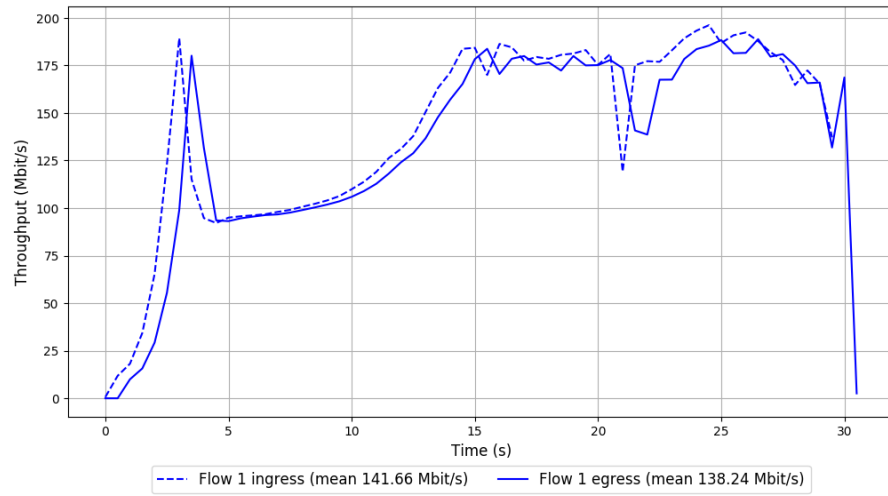

Flow 1 (95th percentile 107.09 ms)

```
Run 2: Statistics of PCC-Expr

Start at: 2021-03-08 01:11:40
End at: 2021-03-08 01:12:10


# Below is generated by plot.py at 2021-03-08 01:29:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 138.24 Mbit/s
95th percentile per-packet one-way delay: 106.647 ms
Loss rate: 2.44%
-- Flow 1:
Average throughput: 138.24 Mbit/s
95th percentile per-packet one-way delay: 106.647 ms
Loss rate: 2.44%
```

Run 2: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 141.66 Mbit/s)   Flow 1 egress (mean 138.24 Mbit/s)
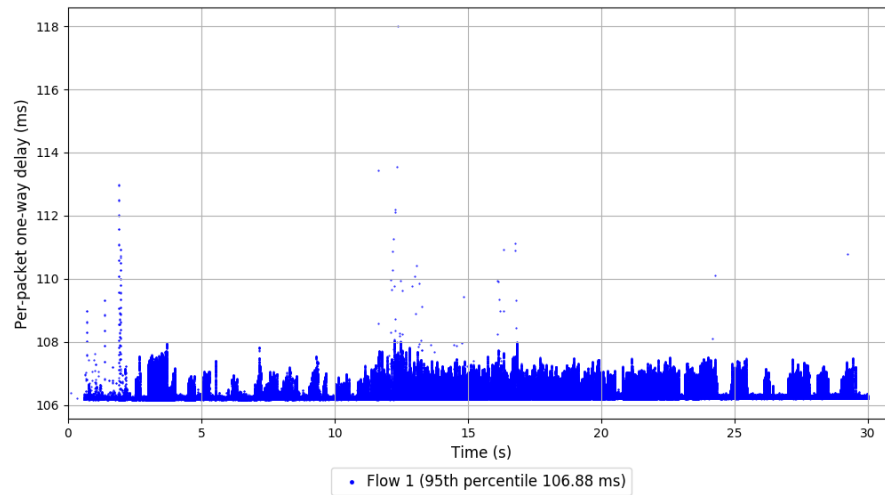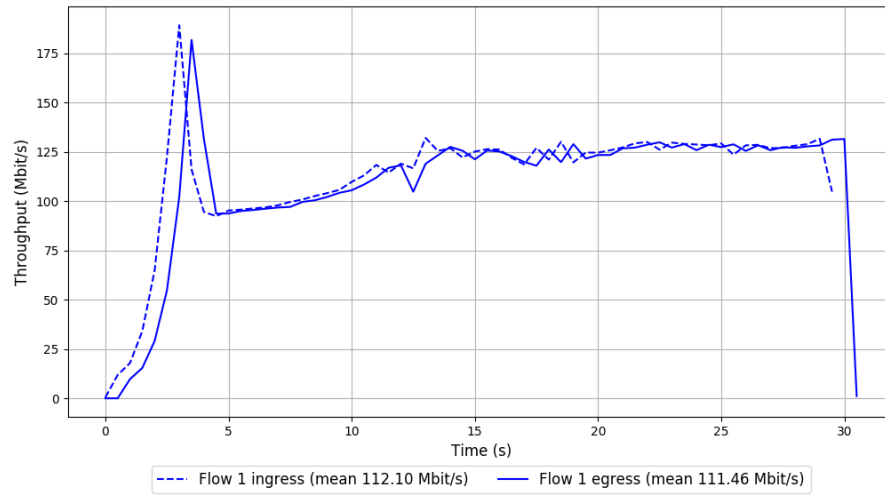

Flow 1 (95th percentile 106.65 ms)

```
Run 3: Statistics of PCC-Expr

Start at: 2021-03-08 01:21:48
End at: 2021-03-08 01:22:18

# Below is generated by plot.py at 2021-03-08 01:29:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 111.46 Mbit/s
95th percentile per-packet one-way delay: 106.883 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 111.46 Mbit/s
95th percentile per-packet one-way delay: 106.883 ms
Loss rate: 0.66%
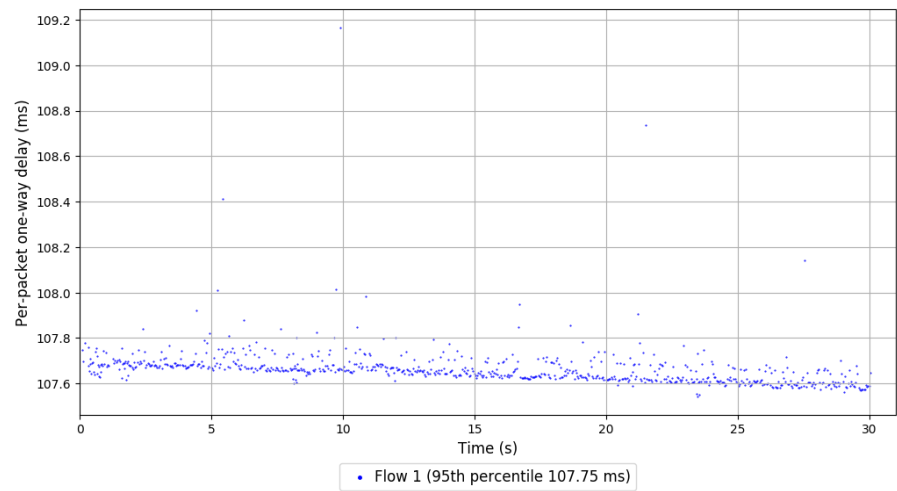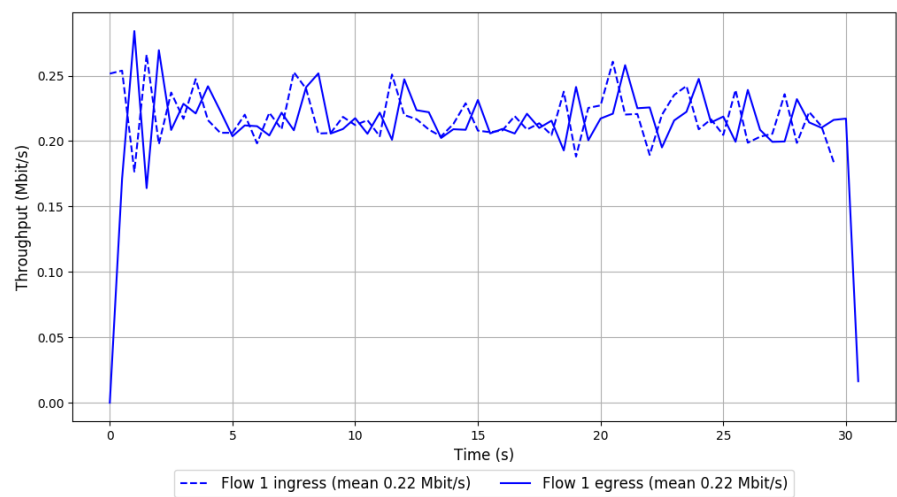```

Run 3: Report of PCC-Expr — Data Link

```
Run 1: Statistics of SCReAM

Start at: 2021-03-08 00:59:50
End at: 2021-03-08 01:00:20

# Below is generated by plot.py at 2021-03-08 01:29:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 107.754 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 107.754 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

```
Run 2: Statistics of SCReAM

Start at: 2021-03-08 01:10:01
End at: 2021-03-08 01:10:31

# Below is generated by plot.py at 2021-03-08 01:29:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 105.554 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 105.554 ms
Loss rate: 0.00%
```
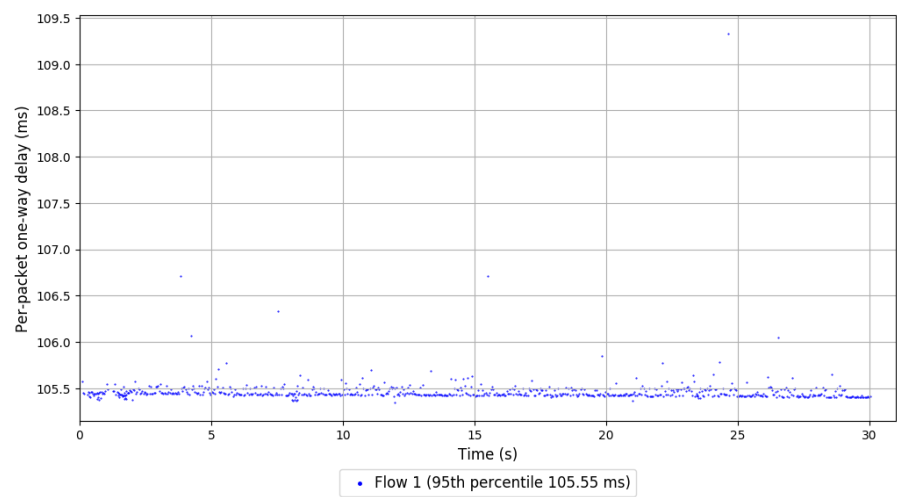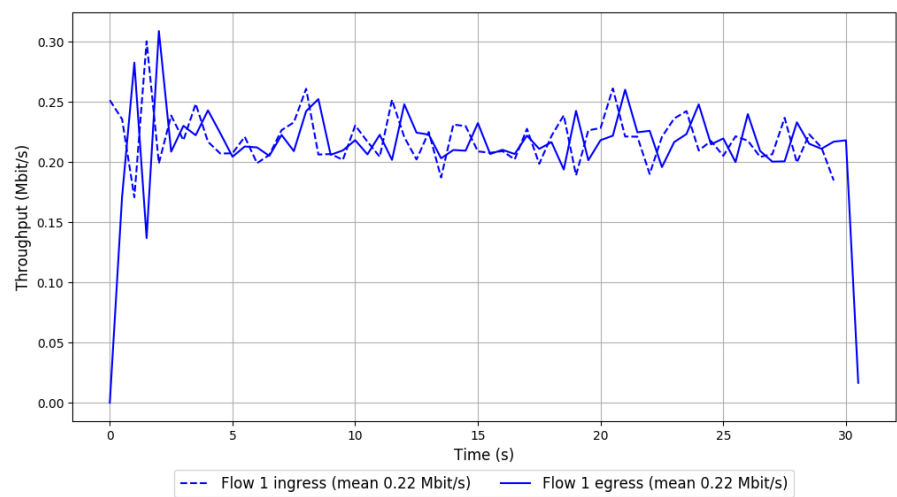
Run 2: Report of SCReAM — Data Link

```
Run 3: Statistics of SCReAM

Start at: 2021-03-08 01:20:09
End at: 2021-03-08 01:20:39

# Below is generated by plot.py at 2021-03-08 01:29:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 106.102 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 106.102 ms
Loss rate: 0.00%
```
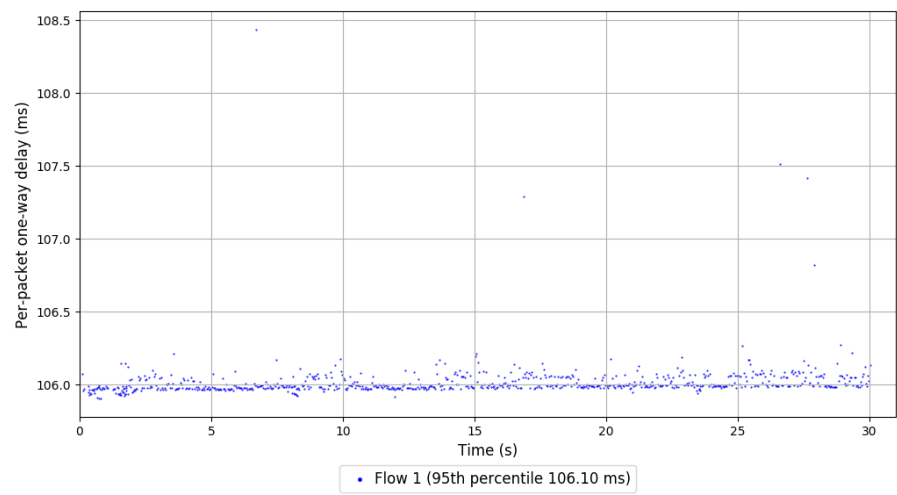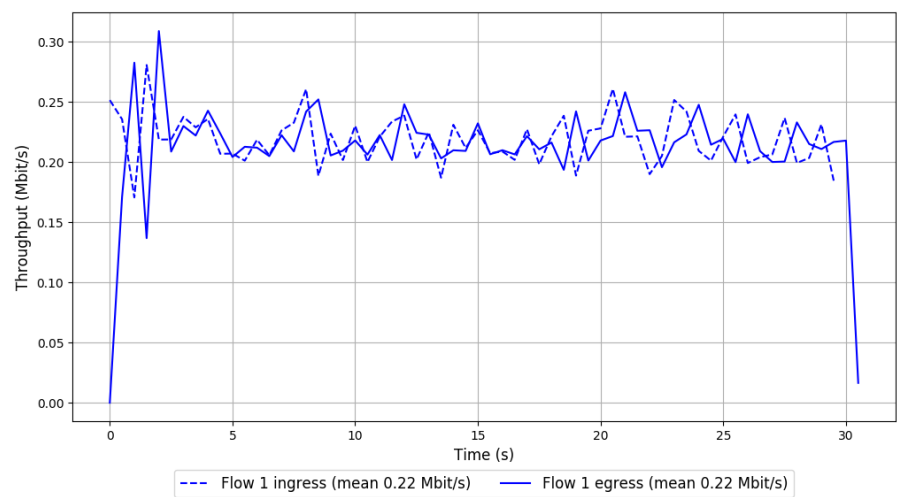
Run 3: Report of SCReAM — Data Link

```
Run 1: Statistics of Sprout

Start at: 2021-03-08 00:54:56
End at: 2021-03-08 00:55:27

# Below is generated by plot.py at 2021-03-08 01:29:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 108.374 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 108.374 ms
Loss rate: 0.00%
```
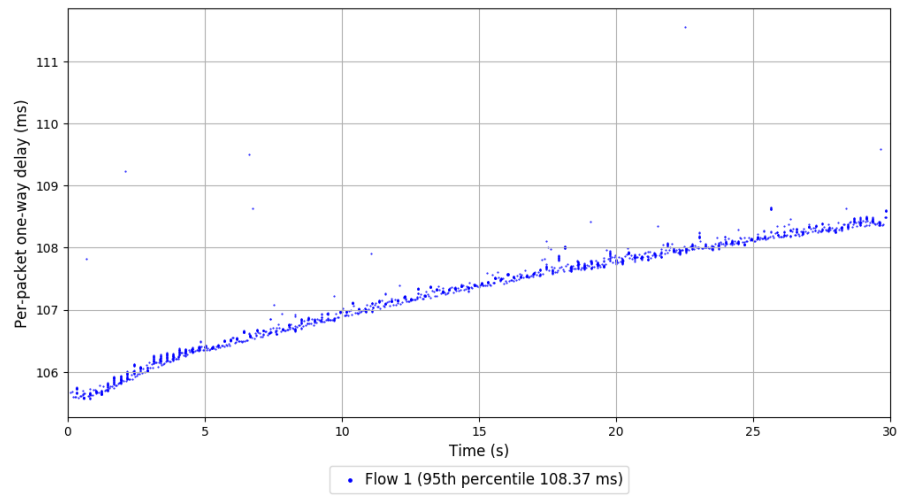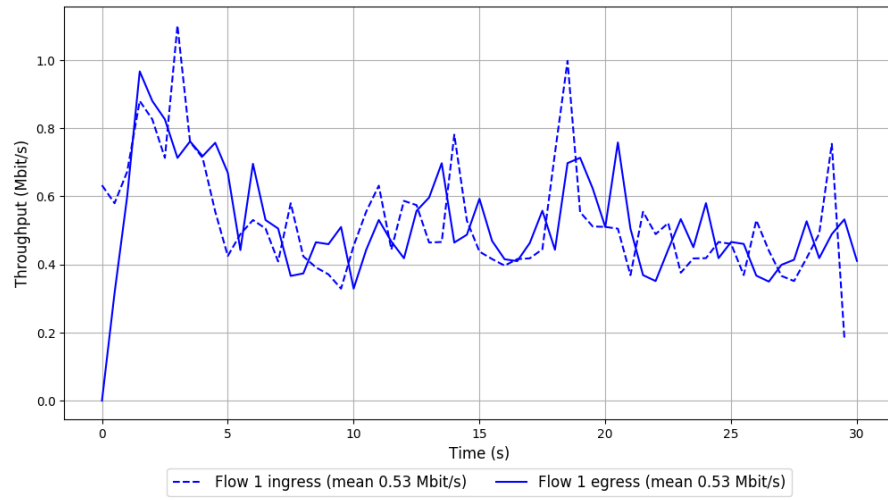
Run 1: Report of Sprout — Data Link

```
Run 2: Statistics of Sprout

Start at: 2021-03-08 01:05:11
End at: 2021-03-08 01:05:41


# Below is generated by plot.py at 2021-03-08 01:29:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 105.660 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 105.660 ms
Loss rate: 0.00%
```
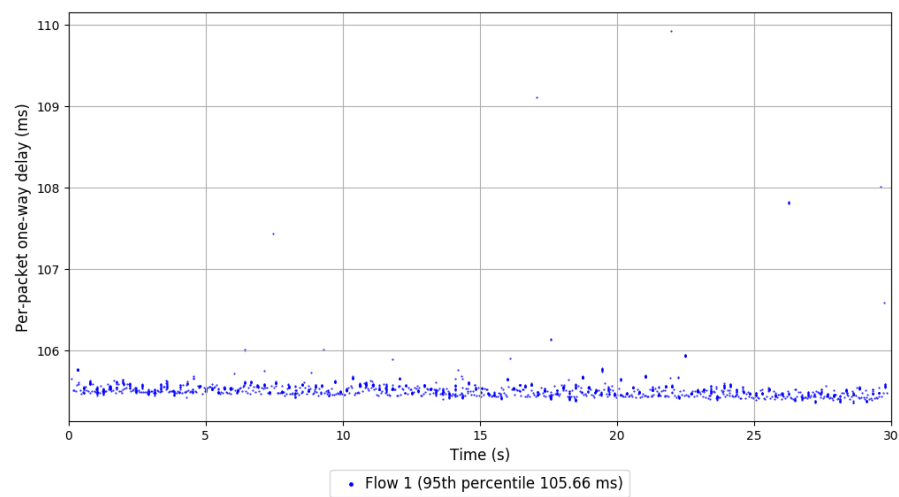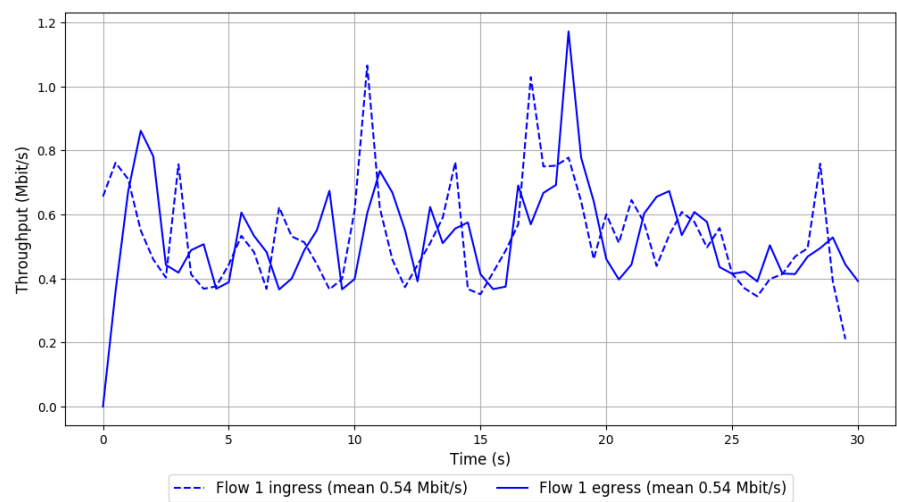
Run 2: Report of Sprout — Data Link

```
Run 3: Statistics of Sprout

Start at: 2021-03-08 01:15:19
End at: 2021-03-08 01:15:49

# Below is generated by plot.py at 2021-03-08 01:29:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 105.793 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 105.793 ms
Loss rate: 0.00%
```
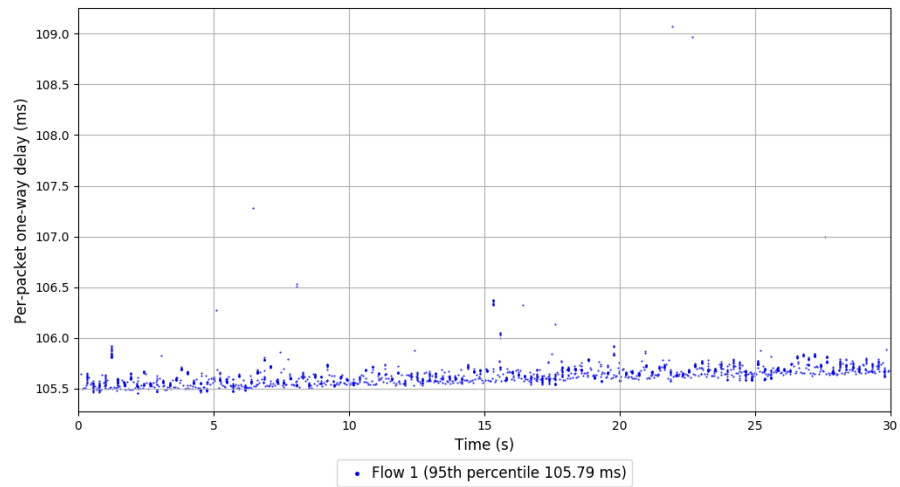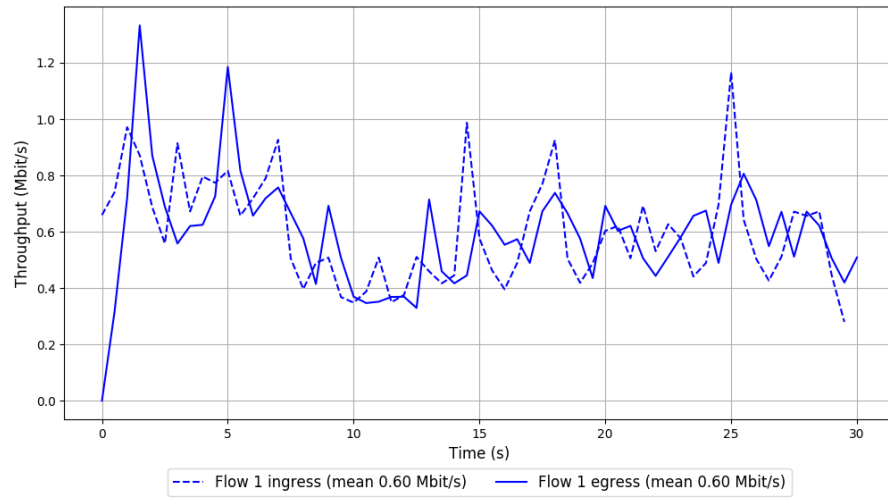
Run 3: Report of Sprout — Data Link

Flow 1 ingress (mean 0.60 Mbit/s)   Flow 1 egress (mean 0.60 Mbit/s)
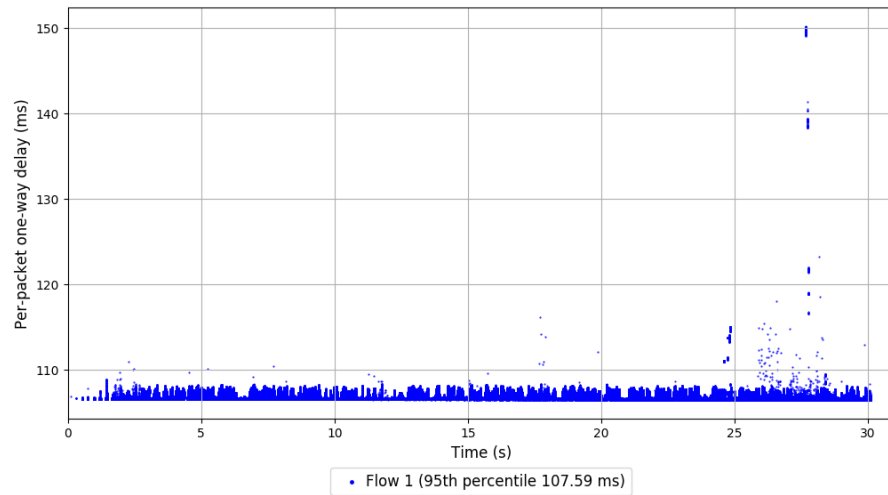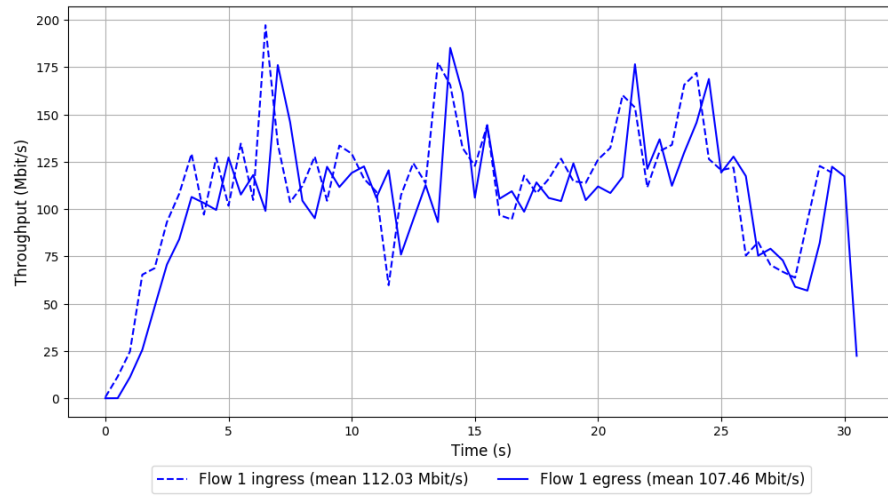

Flow 1 (95th percentile 105.79 ms)

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

Start at: 2021-03-08 01:00:34
End at: 2021-03-08 01:01:04

# Below is generated by plot.py at 2021-03-08 01:30:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 107.46 Mbit/s
95th percentile per-packet one-way delay: 107.594 ms
Loss rate: 4.09%
-- Flow 1:
Average throughput: 107.46 Mbit/s
95th percentile per-packet one-way delay: 107.594 ms
Loss rate: 4.09%
```

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

Flow 1 ingress (mean 112.03 Mbit/s)   Flow 1 egress (mean 107.46 Mbit/s)

Flow 1 (95th percentile 107.59 ms)

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

Start at: 2021-03-08 01:10:44
End at: 2021-03-08 01:11:15

# Below is generated by plot.py at 2021-03-08 01:30:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 114.98 Mbit/s
95th percentile per-packet one-way delay: 107.055 ms
Loss rate: 5.28%
-- Flow 1:
Average throughput: 114.98 Mbit/s
95th percentile per-packet one-way delay: 107.055 ms
Loss rate: 5.28%
```
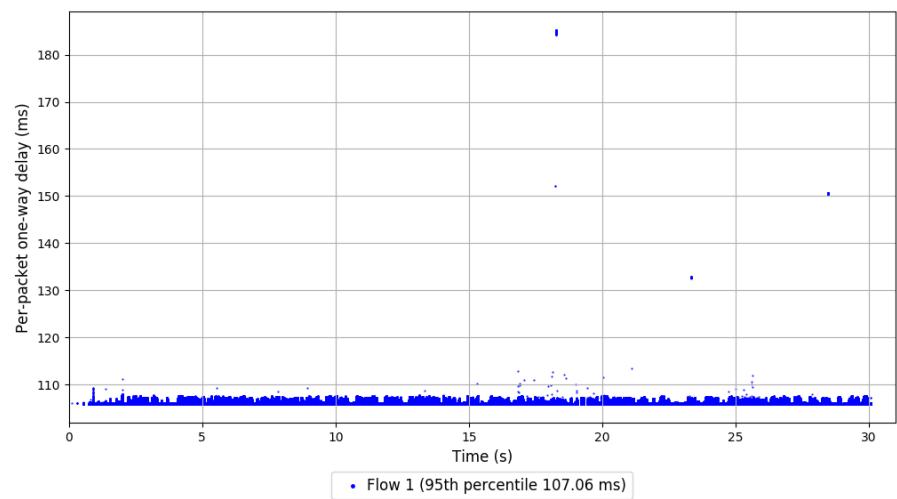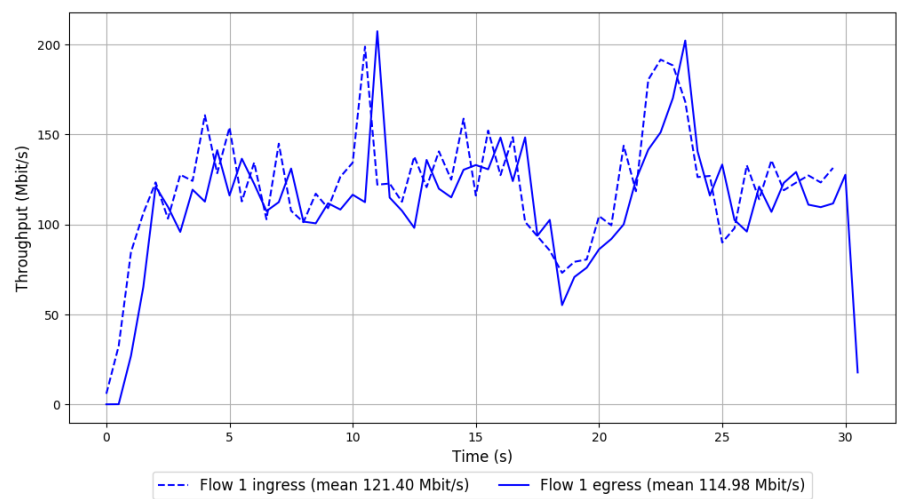
Run 2: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 121.40 Mbit/s)   Flow 1 egress (mean 114.98 Mbit/s)

Flow 1 (95th percentile 107.06 ms)

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

Start at: 2021-03-08 01:20:52
End at: 2021-03-08 01:21:22

# Below is generated by plot.py at 2021-03-08 01:30:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 116.01 Mbit/s
95th percentile per-packet one-way delay: 107.208 ms
Loss rate: 5.70%
-- Flow 1:
Average throughput: 116.01 Mbit/s
95th percentile per-packet one-way delay: 107.208 ms
Loss rate: 5.70%
```
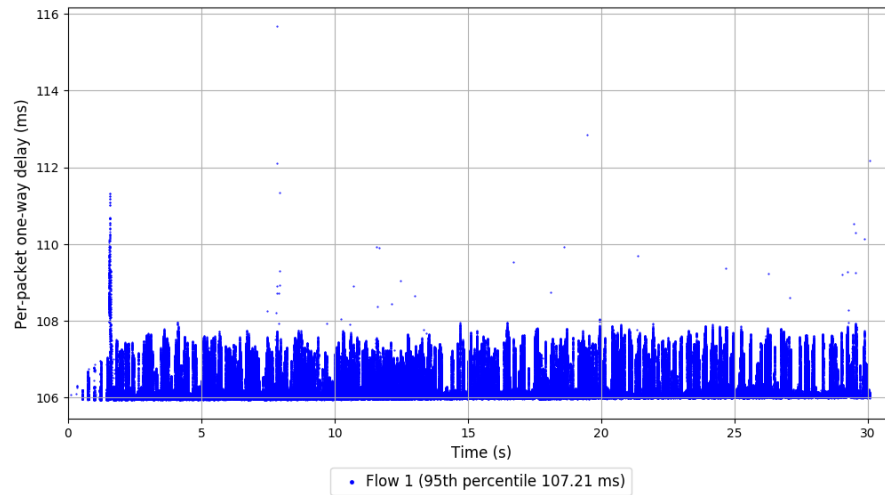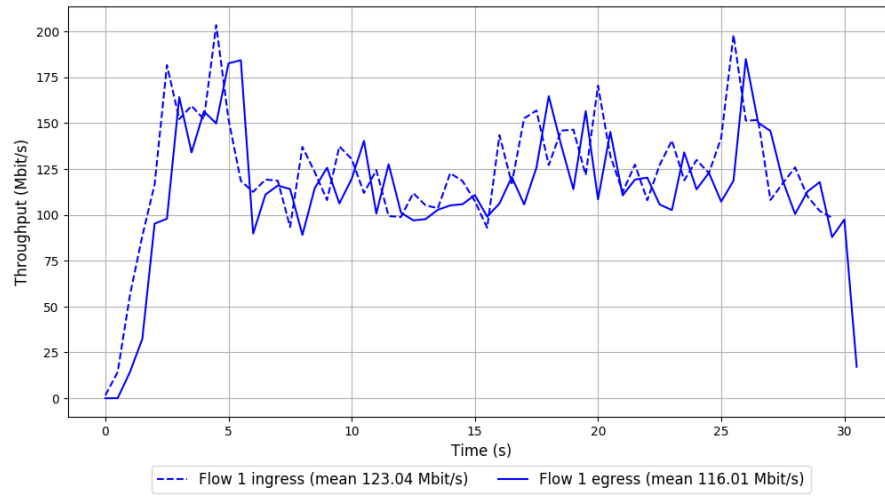
Run 3: Report of TaoVA-100x — Data Link

```
Run 1: Statistics of TCP Vegas

Start at: 2021-03-08 00:57:28
End at: 2021-03-08 00:57:58

# Below is generated by plot.py at 2021-03-08 01:30:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.92 Mbit/s
95th percentile per-packet one-way delay: 107.960 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 3.92 Mbit/s
95th percentile per-packet one-way delay: 107.960 ms
Loss rate: 0.48%
```
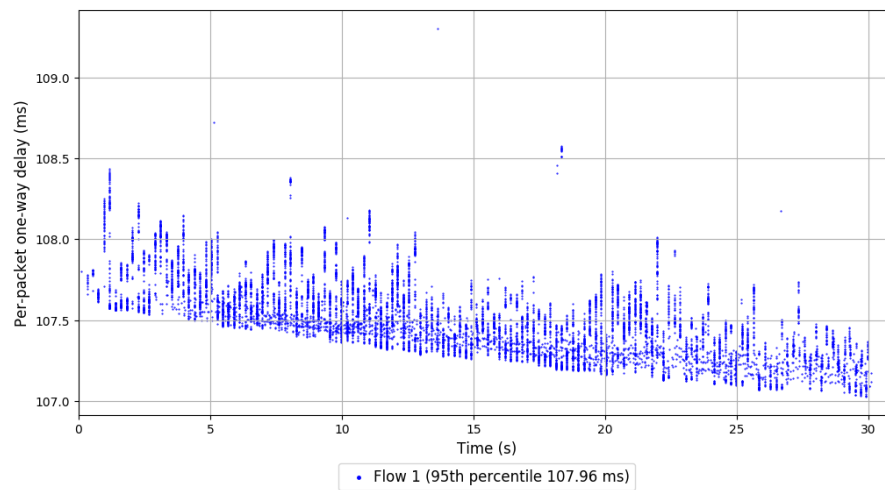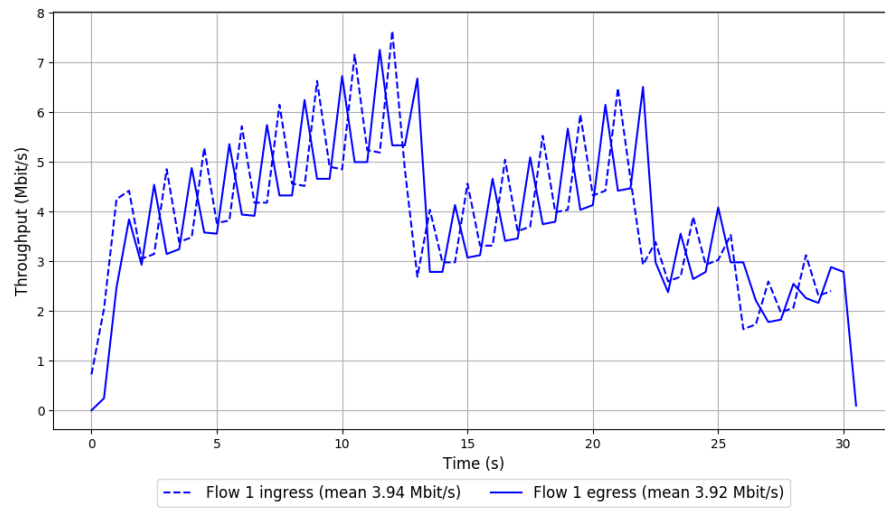
Run 1: Report of TCP Vegas — Data Link

```
Run 2: Statistics of TCP Vegas

Start at: 2021-03-08 01:07:40
End at: 2021-03-08 01:08:10

# Below is generated by plot.py at 2021-03-08 01:30:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.99 Mbit/s
95th percentile per-packet one-way delay: 105.877 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 3.99 Mbit/s
95th percentile per-packet one-way delay: 105.877 ms
Loss rate: 0.20%
```
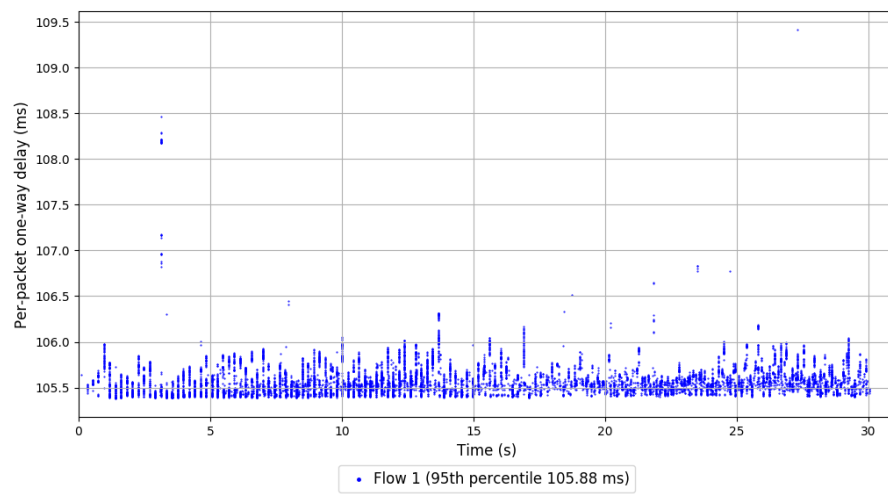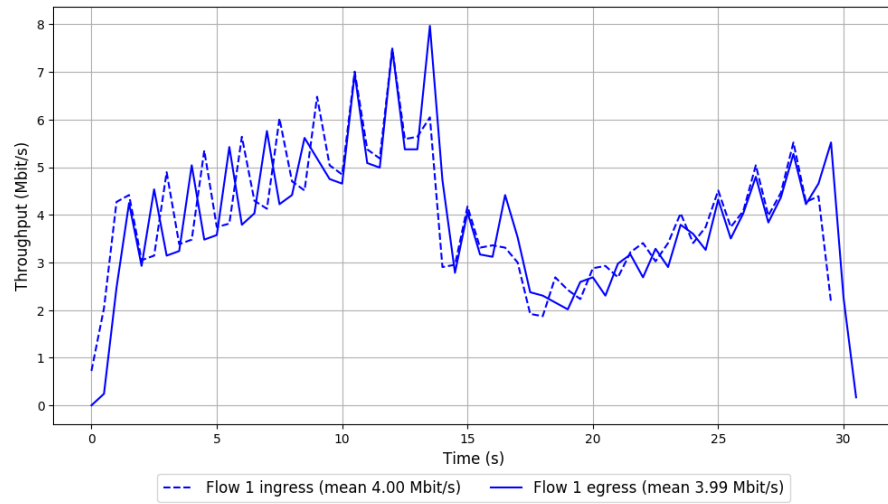
Run 2: Report of TCP Vegas — Data Link

```
Run 3: Statistics of TCP Vegas

Start at: 2021-03-08 01:17:48
End at: 2021-03-08 01:18:18

# Below is generated by plot.py at 2021-03-08 01:30:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.04 Mbit/s
95th percentile per-packet one-way delay: 106.761 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 4.04 Mbit/s
95th percentile per-packet one-way delay: 106.761 ms
Loss rate: 0.58%
```
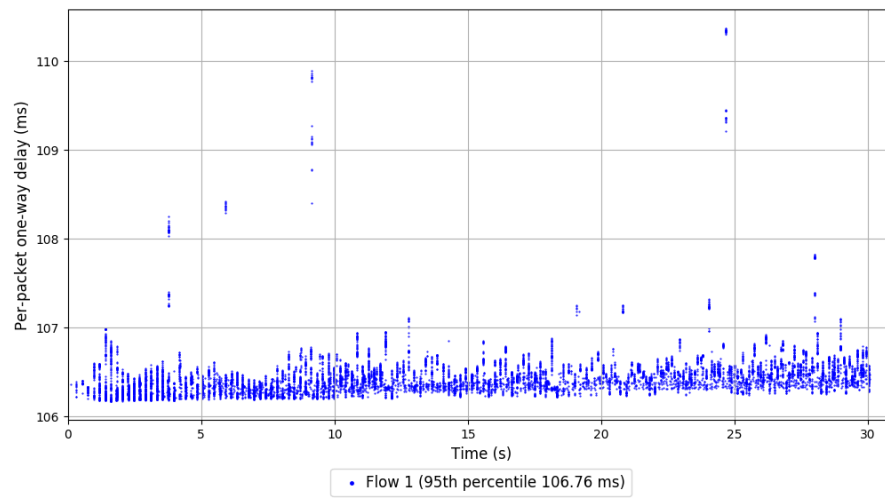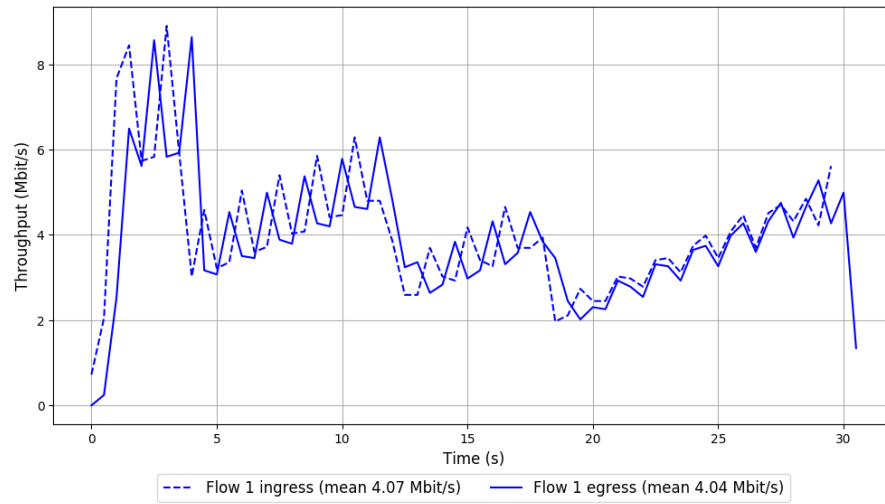
Run 3: Report of TCP Vegas — Data Link

```
Run 1: Statistics of PCC-Vivace

Start at: 2021-03-08 00:55:40
End at: 2021-03-08 00:56:10

# Below is generated by plot.py at 2021-03-08 01:31:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 209.45 Mbit/s
95th percentile per-packet one-way delay: 109.973 ms
Loss rate: 1.65%
-- Flow 1:
Average throughput: 209.45 Mbit/s
95th percentile per-packet one-way delay: 109.973 ms
Loss rate: 1.65%
```
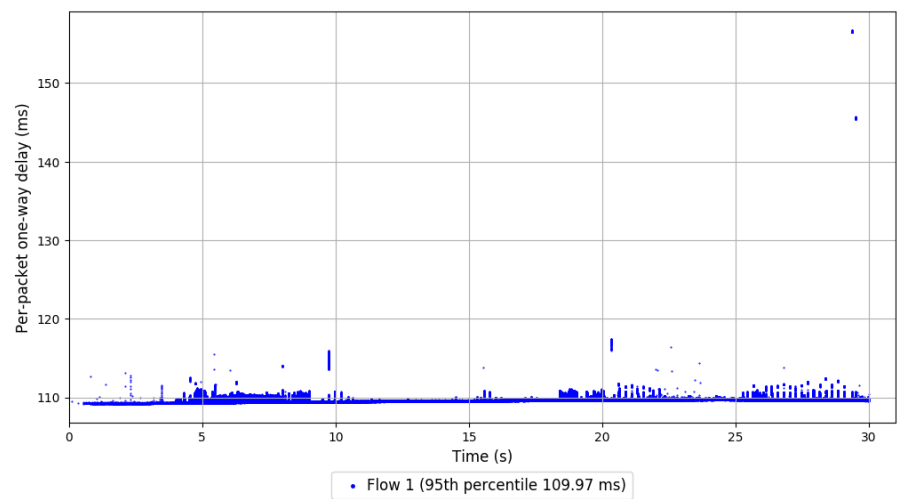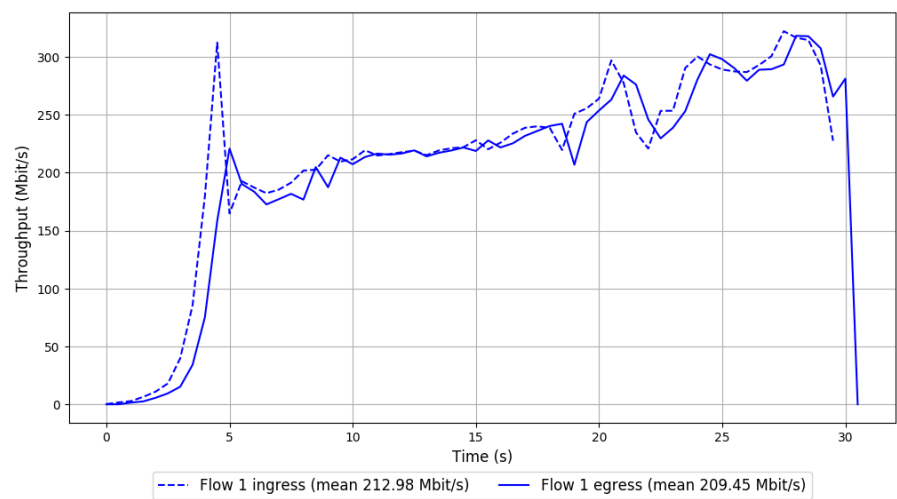
Run 1: Report of PCC-Vivace — Data Link

```
Run 2: Statistics of PCC-Vivace

Start at: 2021-03-08 01:05:54
End at: 2021-03-08 01:06:24


# Below is generated by plot.py at 2021-03-08 01:31:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 147.71 Mbit/s
95th percentile per-packet one-way delay: 106.543 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 147.71 Mbit/s
95th percentile per-packet one-way delay: 106.543 ms
Loss rate: 1.86%
```
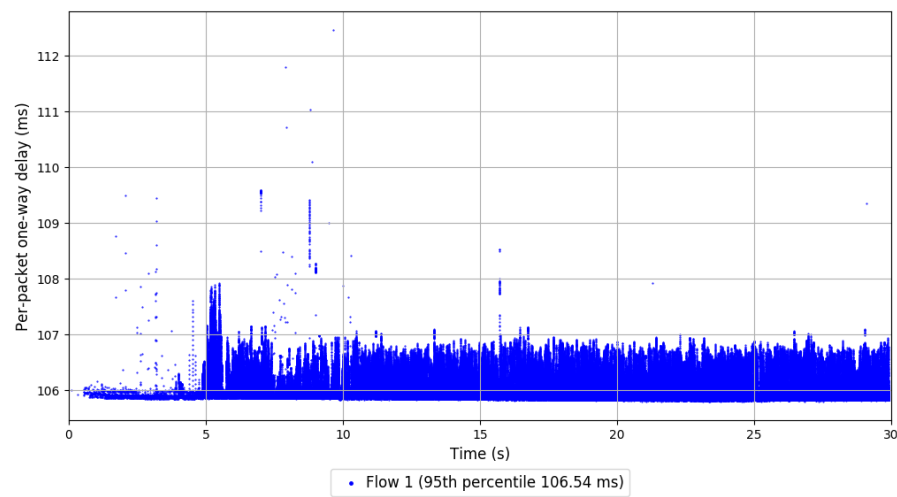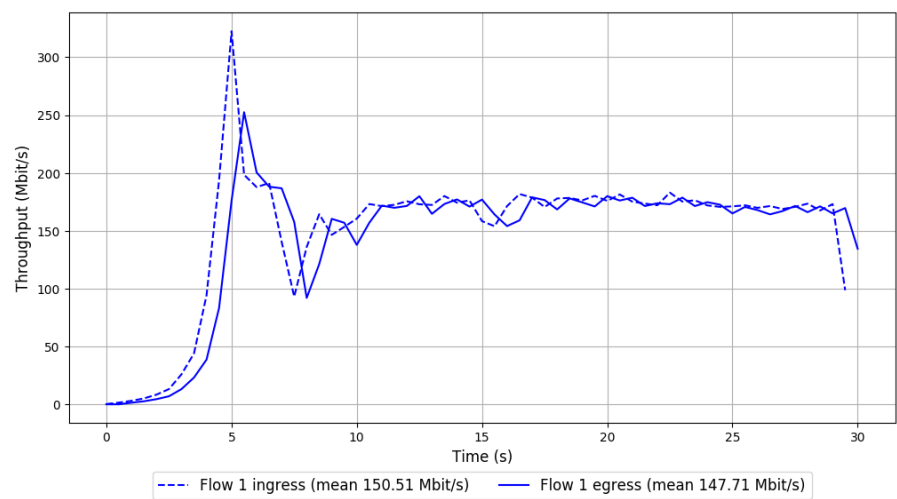
Run 2: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 150.51 Mbit/s)   Flow 1 egress (mean 147.71 Mbit/s)

Flow 1 (95th percentile 106.54 ms)

73

```
Run 3: Statistics of PCC-Vivace

Start at: 2021-03-08 01:16:03
End at: 2021-03-08 01:16:33


# Below is generated by plot.py at 2021-03-08 01:31:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 144.93 Mbit/s
95th percentile per-packet one-way delay: 105.548 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 144.93 Mbit/s
95th percentile per-packet one-way delay: 105.548 ms
Loss rate: 0.78%
```

Run 3: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 146.07 Mbit/s)   Flow 1 egress (mean 144.93 Mbit/s)

Flow 1 (95th percentile 105.55 ms)