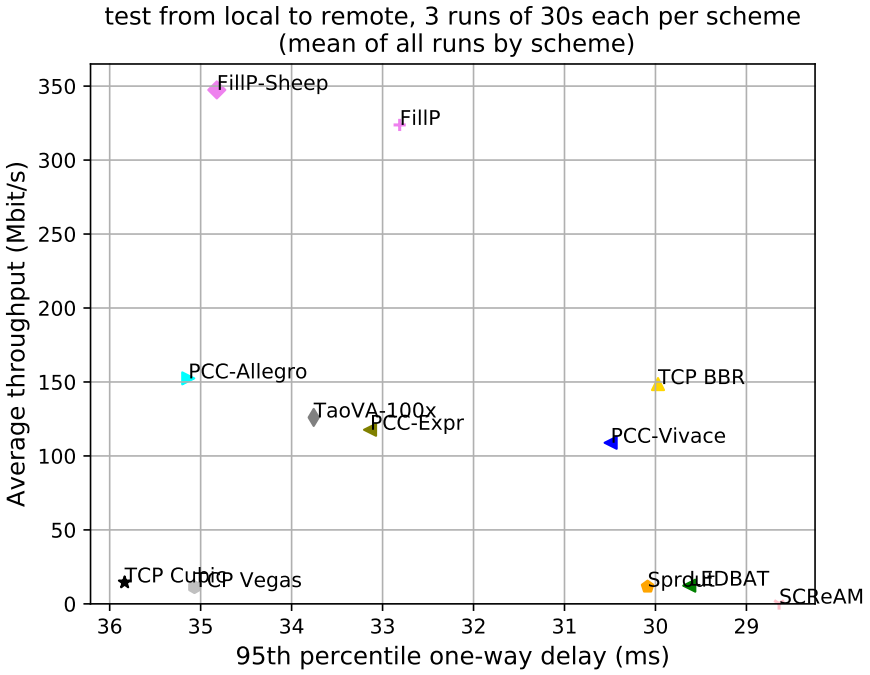
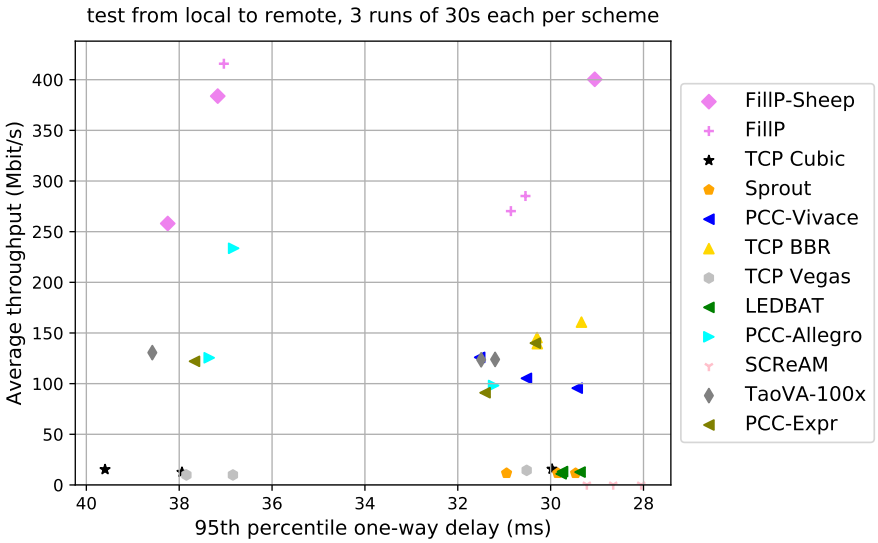
Pantheon Report

Generated at 2021-03-08 23:21:48 (UTC).
Data path: (*local*) →(*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 @ 78ccfc3d6ac488bfc90b363fda5382661eb15028
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)
Average throughput (Mbit/s)
95th percentile one-way delay (ms)
FillP-Sheep
FillP
PCC-Allegro
TaoVA-100x
PCC-Expr
TCP BBR
PCC-Vivace
TCP Cubic
TCP Vegas
Sprout
LEDBAT
SCReAM


test from local to remote, 3 runs of 30s each per scheme
Average throughput (Mbit/s)
95th percentile one-way delay (ms)
FillP-Sheep
FillP
TCP Cubic
Sprout
PCC-Vivace
TCP BBR
TCP Vegas
LEDBAT
PCC-Allegro
SCReAM
TaoVA-100x
PCC-Expr

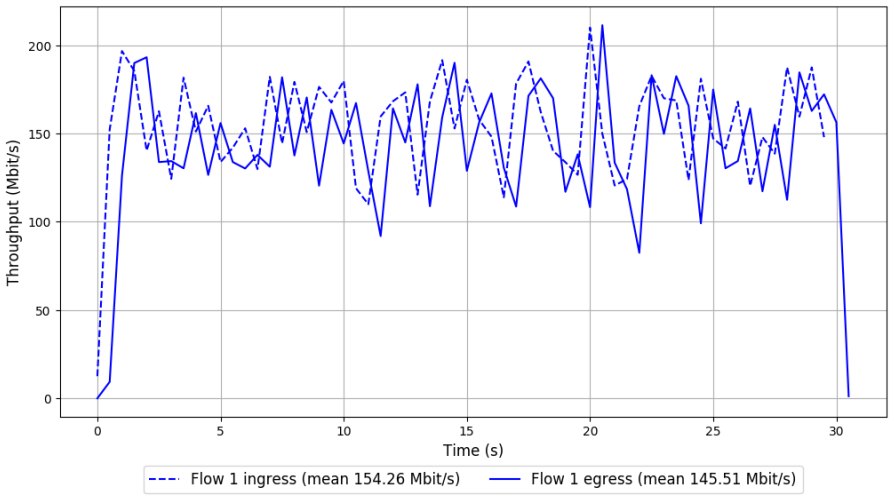
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	3	148.58	29.97	5.28
TCP Cubic	3	14.50	35.84	0.23
FillP	3	323.75	32.81	9.14
FillP-Sheep	3	347.43	34.82	5.16
LEDBAT	3	12.30	29.63	0.56
PCC-Allegro	3	152.42	35.14	3.59
PCC-Expr	3	117.68	33.14	5.93
SCReAM	3	0.21	28.64	0.00
Sprout	3	11.64	30.09	1.32
TaoVA-100x	3	126.02	33.76	8.85
TCP Vegas	3	11.37	35.07	0.54
PCC-Vivace	3	108.90	30.49	3.01

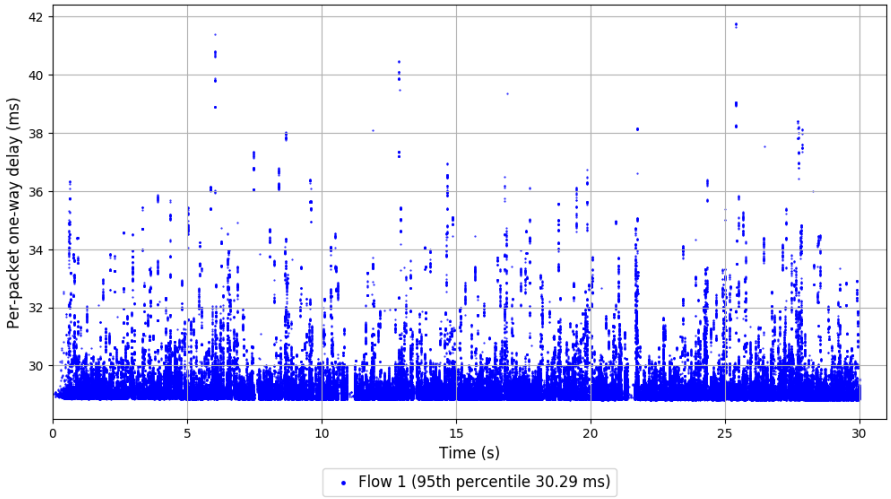
```
Run 1: Statistics of TCP BBR

Start at: 2021-03-08 22:49:25
End at: 2021-03-08 22:49:55

# Below is generated by plot.py at 2021-03-08 23:13:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 145.51 Mbit/s
95th percentile per-packet one-way delay: 30.293 ms
Loss rate: 5.67%
-- Flow 1:
Average throughput: 145.51 Mbit/s
95th percentile per-packet one-way delay: 30.293 ms
Loss rate: 5.67%
```

Run 1: Report of TCP BBR — Data Link



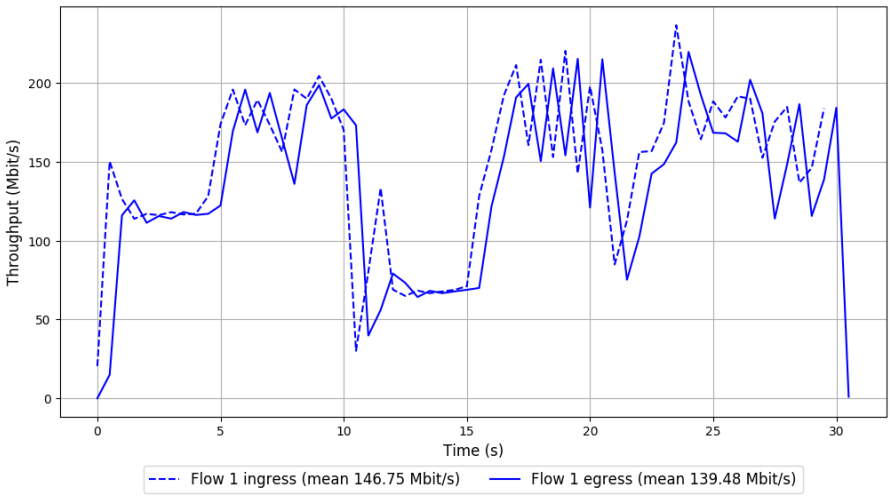


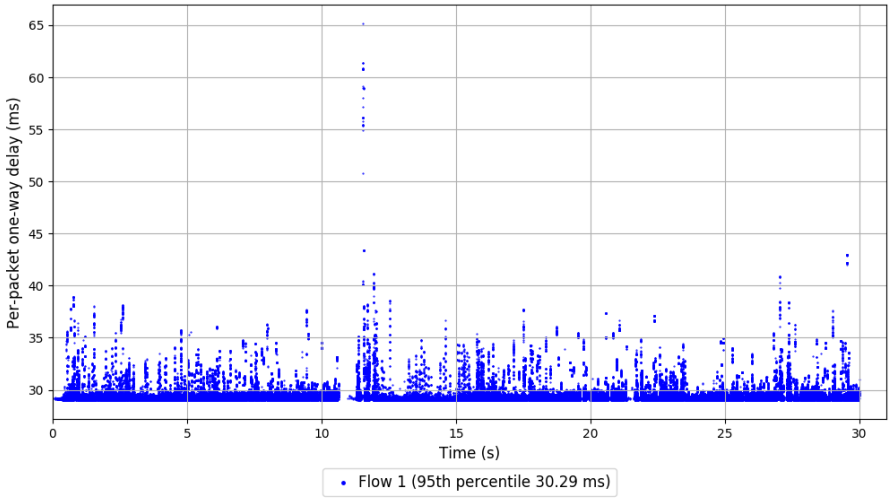
```
Run 2: Statistics of TCP BBR

Start at: 2021-03-08 22:58:28
End at: 2021-03-08 22:58:58

# Below is generated by plot.py at 2021-03-08 23:13:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 139.48 Mbit/s
95th percentile per-packet one-way delay: 30.287 ms
Loss rate: 4.97%
-- Flow 1:
Average throughput: 139.48 Mbit/s
95th percentile per-packet one-way delay: 30.287 ms
Loss rate: 4.97%
```

Run 2: Report of TCP BBR — Data Link



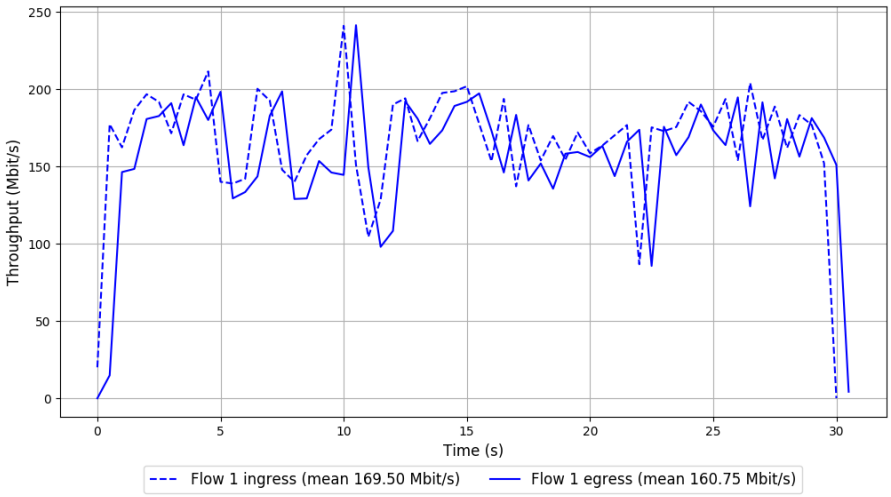


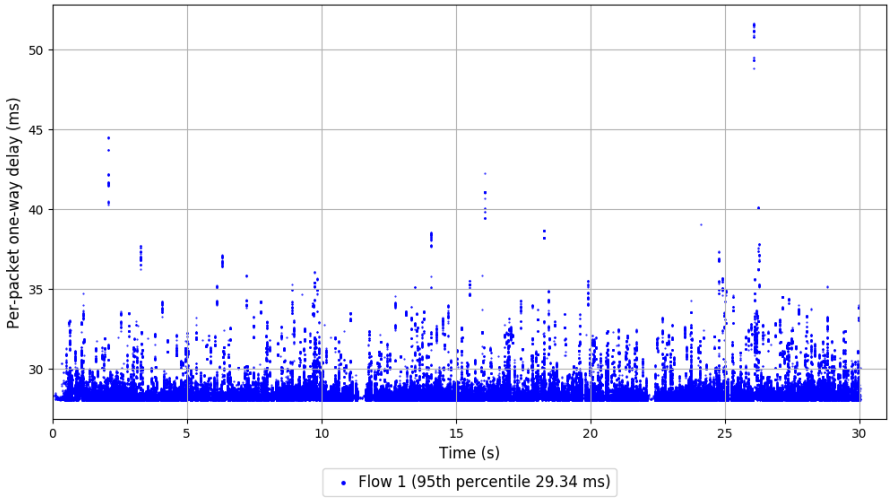
```
Run 3: Statistics of TCP BBR

Start at: 2021-03-08 23:07:33
End at: 2021-03-08 23:08:03

# Below is generated by plot.py at 2021-03-08 23:13:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 160.75 Mbit/s
95th percentile per-packet one-way delay: 29.336 ms
Loss rate: 5.19%
-- Flow 1:
Average throughput: 160.75 Mbit/s
95th percentile per-packet one-way delay: 29.336 ms
Loss rate: 5.19%
```

Run 3: Report of TCP BBR — Data Link



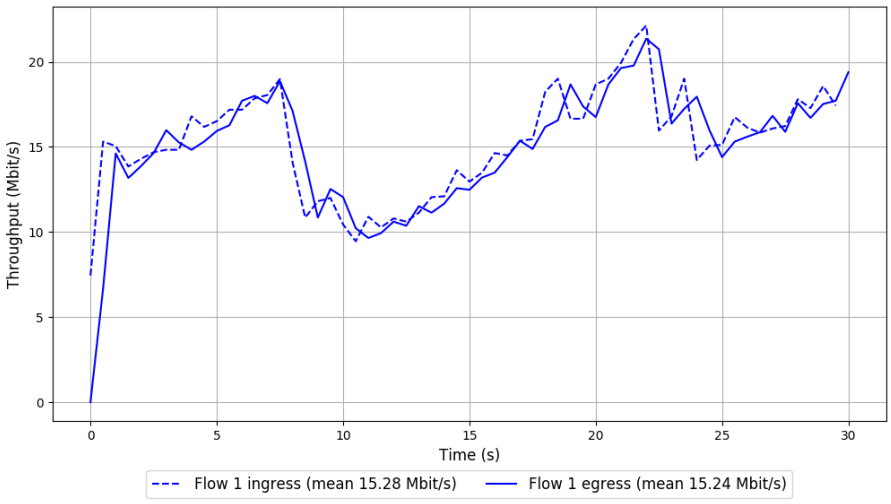


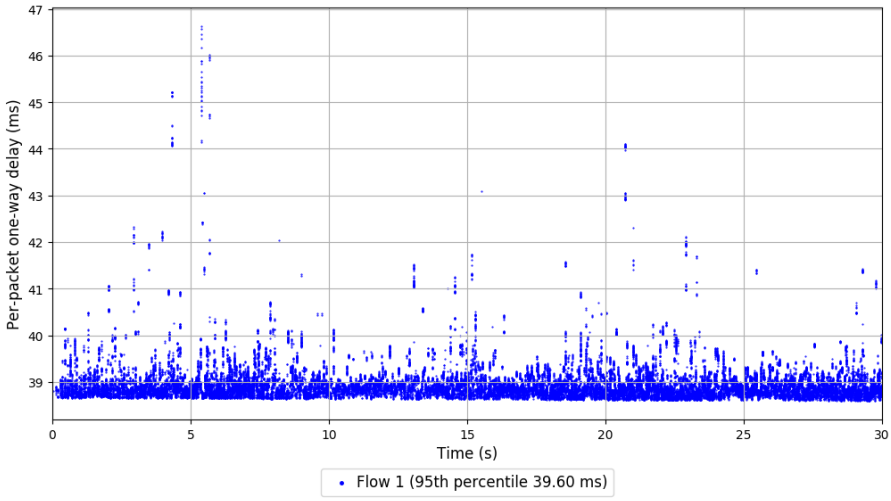
```
Run 1: Statistics of TCP Cubic

Start at: 2021-03-08 22:47:14
End at: 2021-03-08 22:47:44

# Below is generated by plot.py at 2021-03-08 23:13:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.24 Mbit/s
95th percentile per-packet one-way delay: 39.597 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 15.24 Mbit/s
95th percentile per-packet one-way delay: 39.597 ms
Loss rate: 0.29%
```

Run 1: Report of TCP Cubic — Data Link



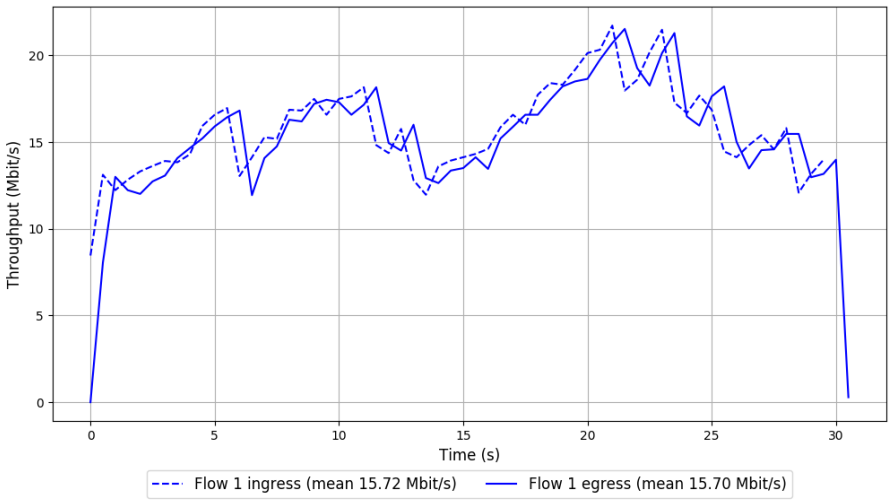


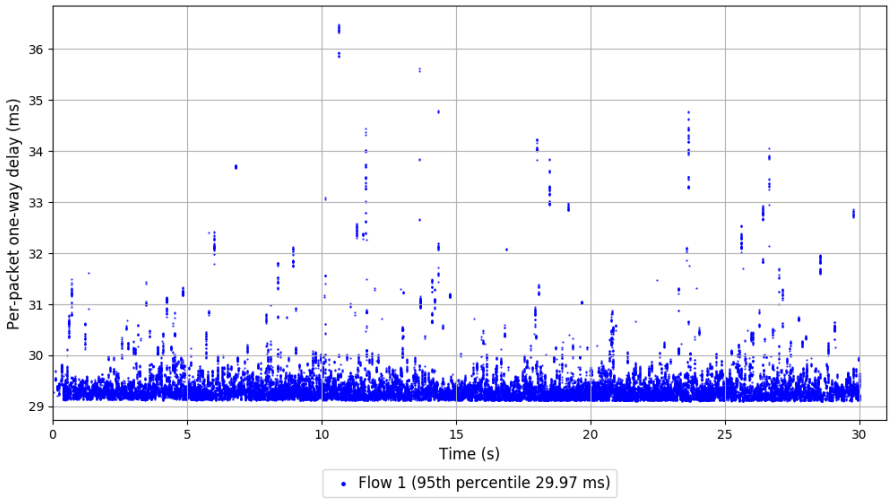
```
Run 2: Statistics of TCP Cubic

Start at: 2021-03-08 22:56:21
End at: 2021-03-08 22:56:51

# Below is generated by plot.py at 2021-03-08 23:13:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.70 Mbit/s
95th percentile per-packet one-way delay: 29.970 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 15.70 Mbit/s
95th percentile per-packet one-way delay: 29.970 ms
Loss rate: 0.16%
```

Run 2: Report of TCP Cubic — Data Link



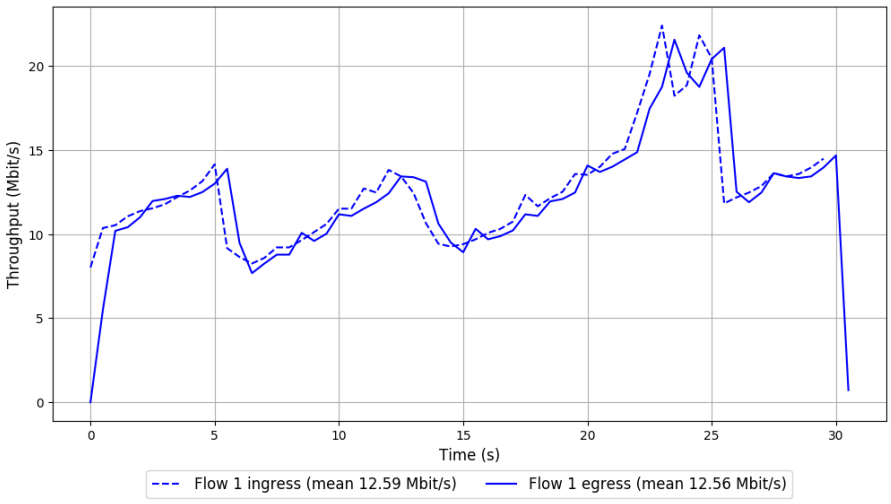


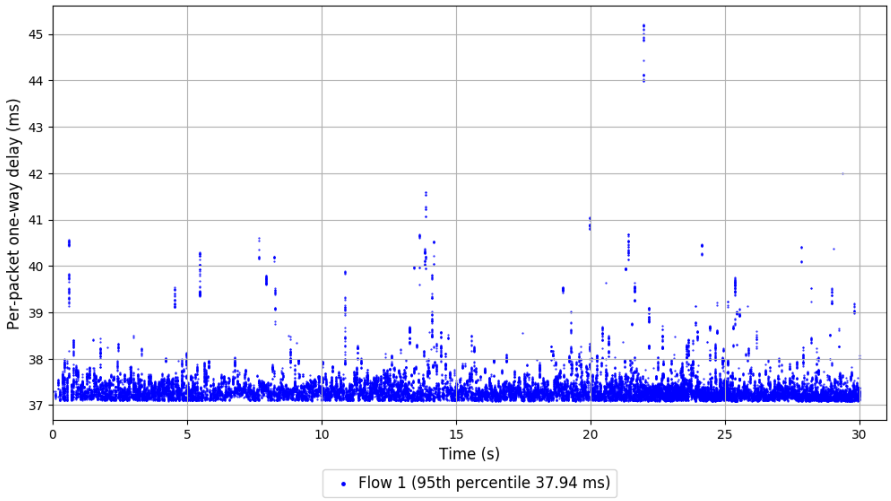
```
Run 3: Statistics of TCP Cubic

Start at: 2021-03-08 23:05:27
End at: 2021-03-08 23:05:58

# Below is generated by plot.py at 2021-03-08 23:13:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.56 Mbit/s
95th percentile per-packet one-way delay: 37.940 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 12.56 Mbit/s
95th percentile per-packet one-way delay: 37.940 ms
Loss rate: 0.23%
```

Run 3: Report of TCP Cubic — Data Link



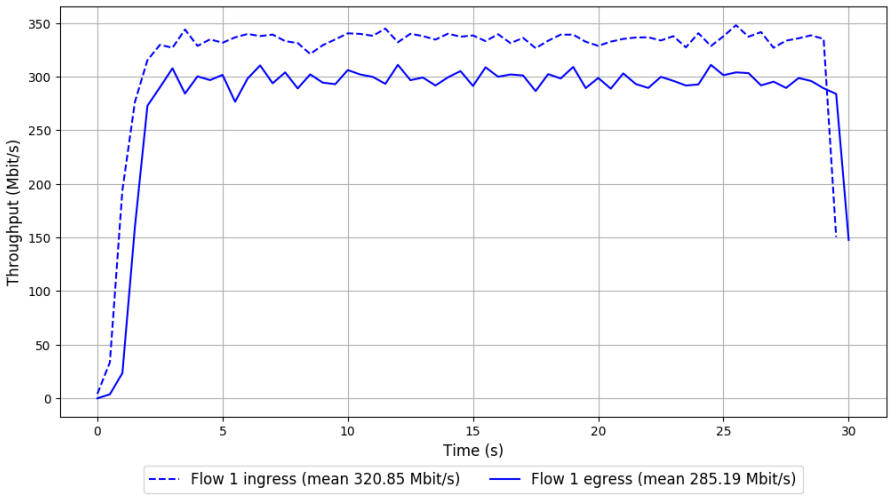


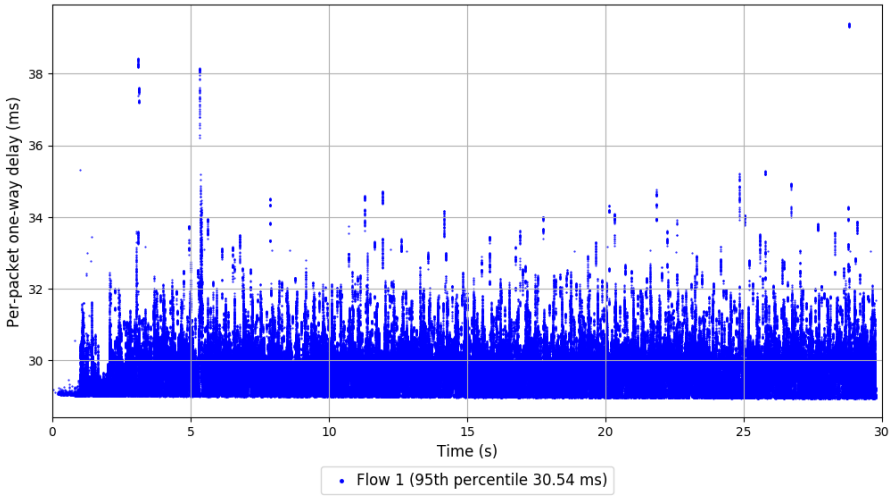
```
Run 1: Statistics of FillP

Start at: 2021-03-08 22:46:22
End at: 2021-03-08 22:46:52

# Below is generated by plot.py at 2021-03-08 23:14:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 285.19 Mbit/s
95th percentile per-packet one-way delay: 30.542 ms
Loss rate: 11.11%
-- Flow 1:
Average throughput: 285.19 Mbit/s
95th percentile per-packet one-way delay: 30.542 ms
Loss rate: 11.11%
```

Run 1: Report of FillP — Data Link



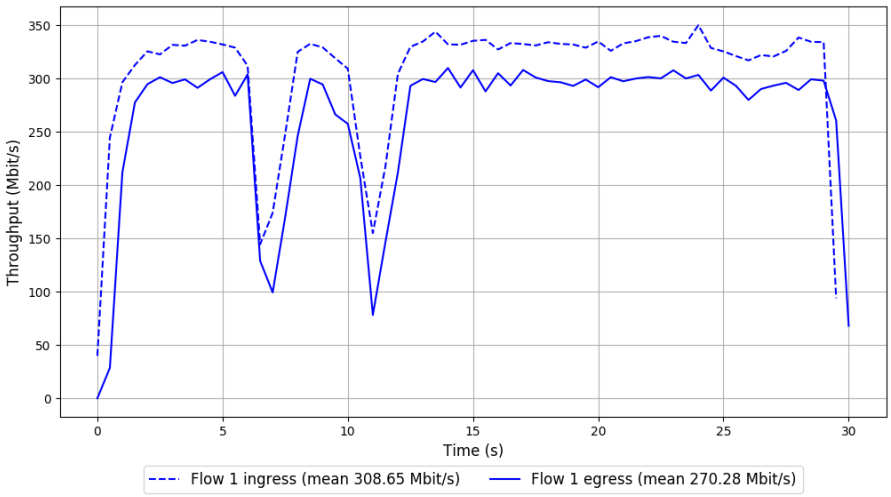


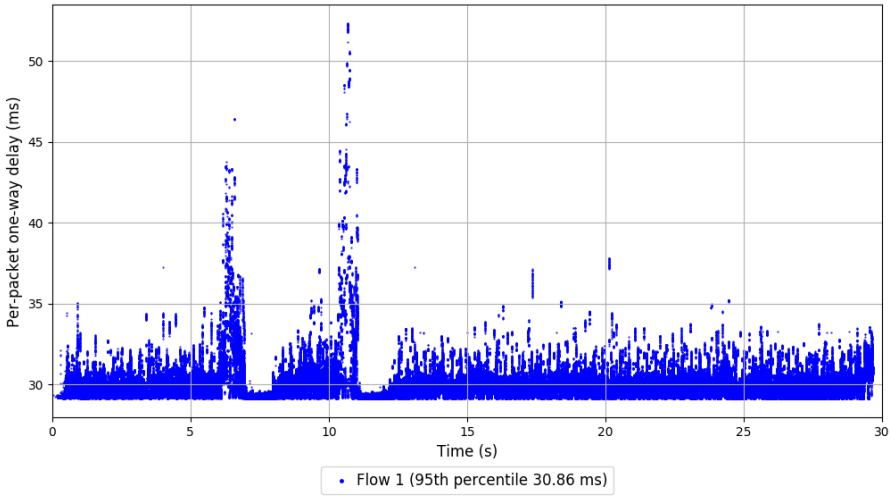
```
Run 2: Statistics of FillP

Start at: 2021-03-08 22:55:30
End at: 2021-03-08 22:56:00

# Below is generated by plot.py at 2021-03-08 23:14:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 270.28 Mbit/s
95th percentile per-packet one-way delay: 30.856 ms
Loss rate: 12.43%
-- Flow 1:
Average throughput: 270.28 Mbit/s
95th percentile per-packet one-way delay: 30.856 ms
Loss rate: 12.43%
```

Run 2: Report of FillP — Data Link



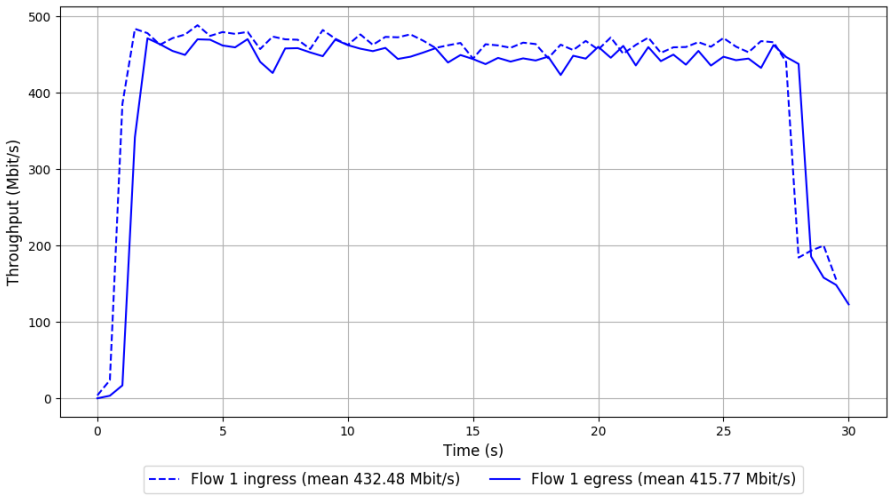


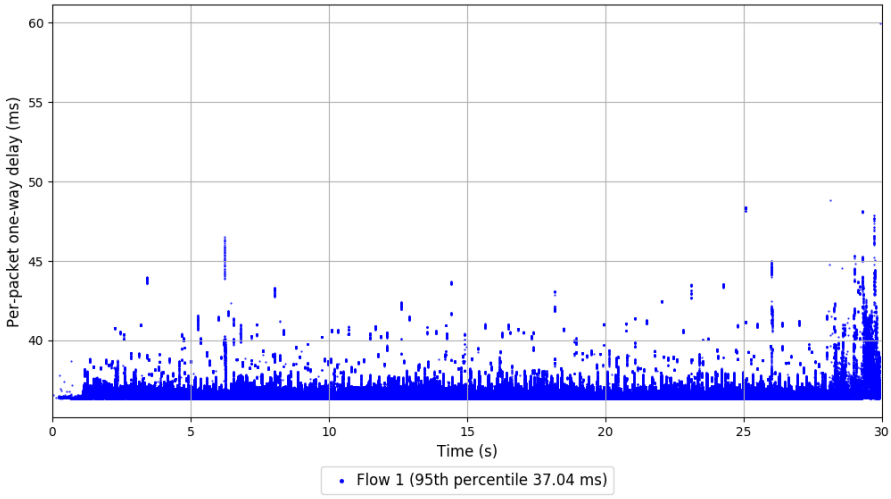
```
Run 3: Statistics of FillP

Start at: 2021-03-08 23:04:33
End at: 2021-03-08 23:05:03

# Below is generated by plot.py at 2021-03-08 23:16:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 415.77 Mbit/s
95th percentile per-packet one-way delay: 37.038 ms
Loss rate: 3.87%
-- Flow 1:
Average throughput: 415.77 Mbit/s
95th percentile per-packet one-way delay: 37.038 ms
Loss rate: 3.87%
```

Run 3: Report of FillP — Data Link



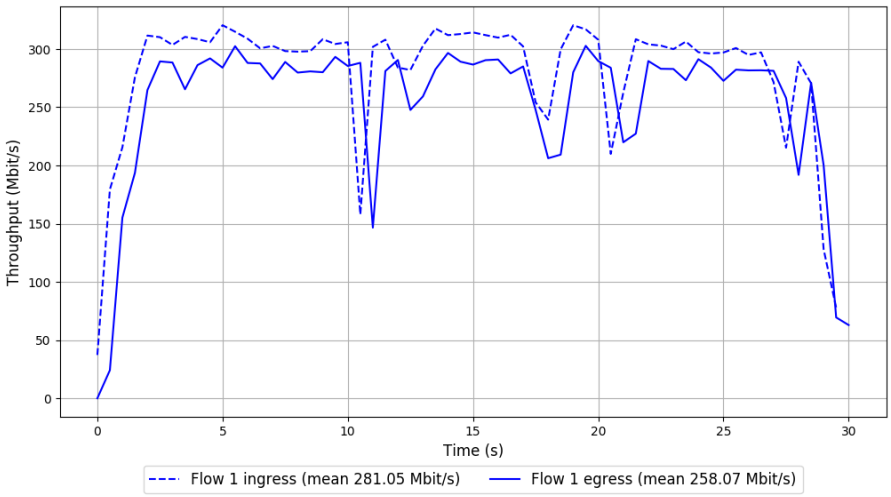


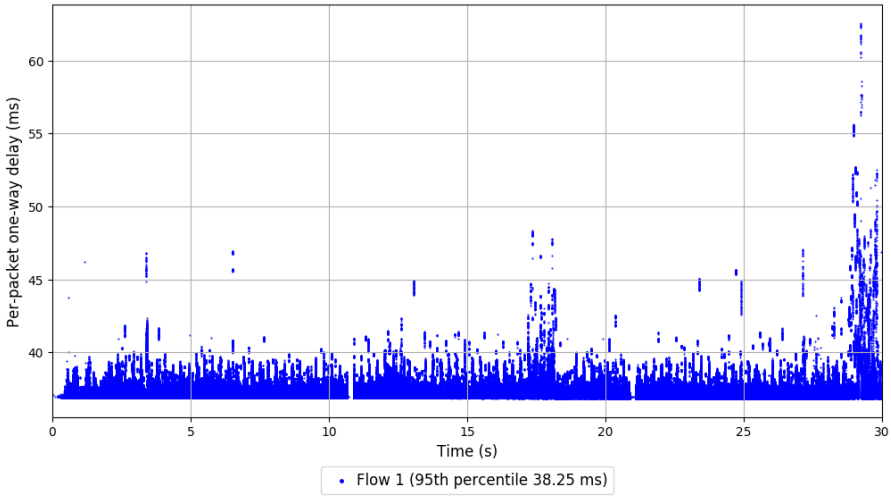
```
Run 1: Statistics of FillP-Sheep

Start at: 2021-03-08 22:45:32
End at: 2021-03-08 22:46:02

# Below is generated by plot.py at 2021-03-08 23:16:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 258.07 Mbit/s
95th percentile per-packet one-way delay: 38.247 ms
Loss rate: 8.17%
-- Flow 1:
Average throughput: 258.07 Mbit/s
95th percentile per-packet one-way delay: 38.247 ms
Loss rate: 8.17%
```

Run 1: Report of FillP-Sheep — Data Link



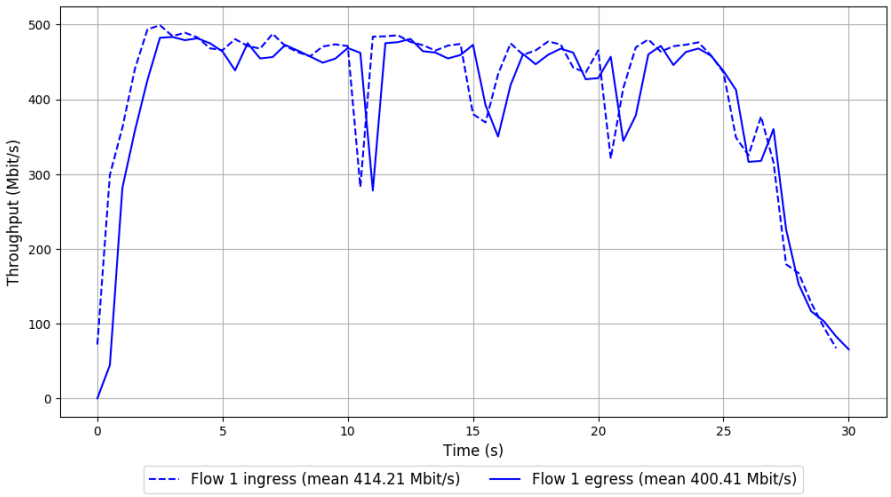


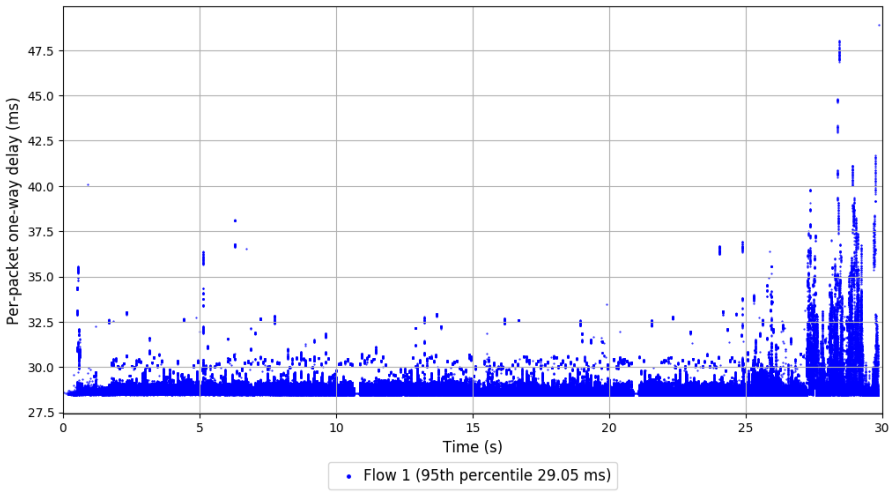
```
Run 2: Statistics of FillP-Sheep

Start at: 2021-03-08 22:54:34
End at: 2021-03-08 22:55:04

# Below is generated by plot.py at 2021-03-08 23:17:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 400.41 Mbit/s
95th percentile per-packet one-way delay: 29.050 ms
Loss rate: 3.27%
-- Flow 1:
Average throughput: 400.41 Mbit/s
95th percentile per-packet one-way delay: 29.050 ms
Loss rate: 3.27%
```

Run 2: Report of FillP-Sheep — Data Link



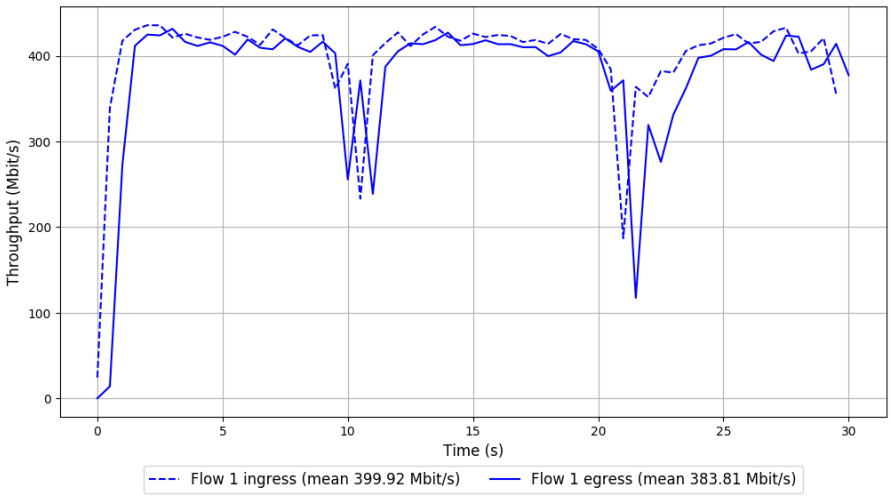


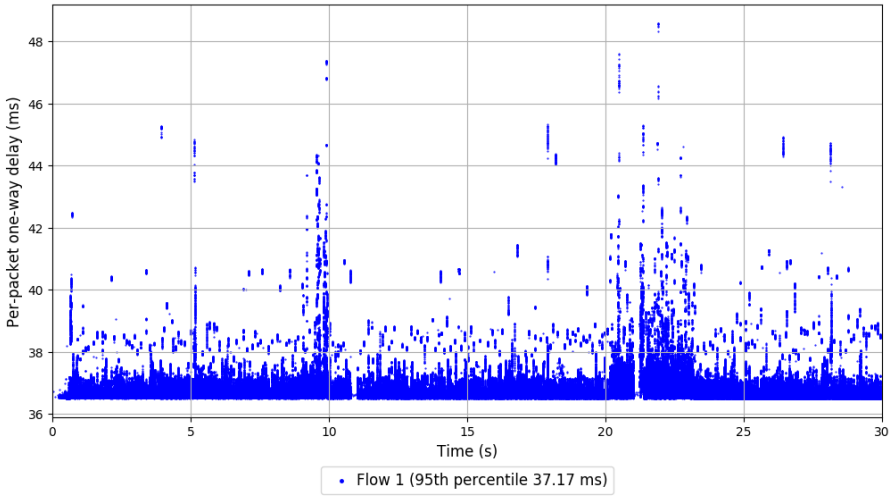
```
Run 3: Statistics of FillP-Sheep

Start at: 2021-03-08 23:03:41
End at: 2021-03-08 23:04:12

# Below is generated by plot.py at 2021-03-08 23:17:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 383.81 Mbit/s
95th percentile per-packet one-way delay: 37.170 ms
Loss rate: 4.03%
-- Flow 1:
Average throughput: 383.81 Mbit/s
95th percentile per-packet one-way delay: 37.170 ms
Loss rate: 4.03%
```

Run 3: Report of FillP-Sheep — Data Link



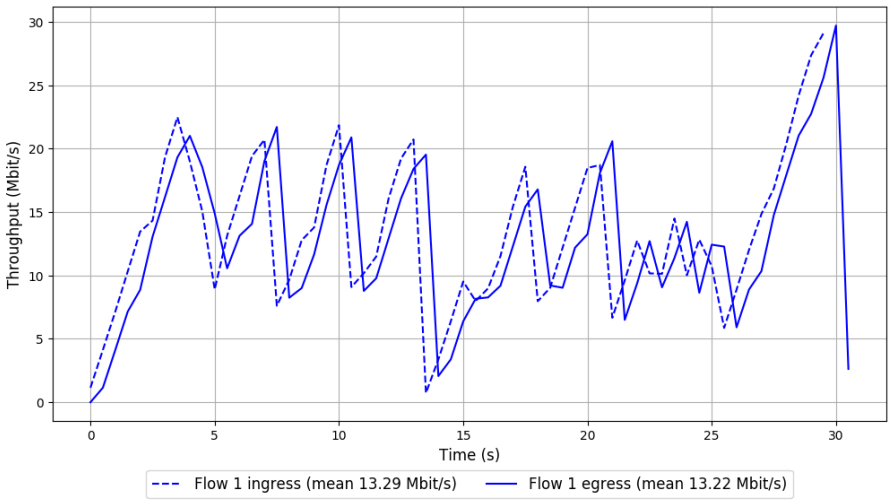


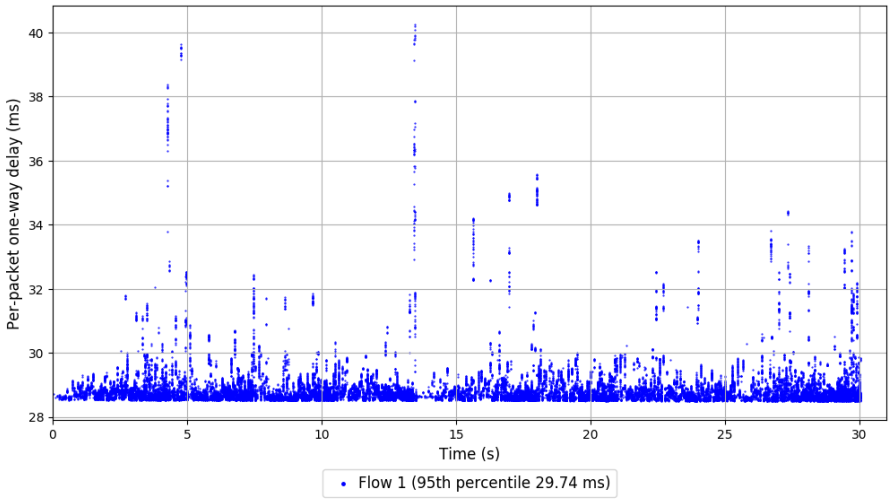
```
Run 1: Statistics of LEDBAT

Start at: 2021-03-08 22:50:52
End at: 2021-03-08 22:51:22

# Below is generated by plot.py at 2021-03-08 23:17:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.22 Mbit/s
95th percentile per-packet one-way delay: 29.744 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 13.22 Mbit/s
95th percentile per-packet one-way delay: 29.744 ms
Loss rate: 0.54%
```

Run 1: Report of LEDBAT — Data Link



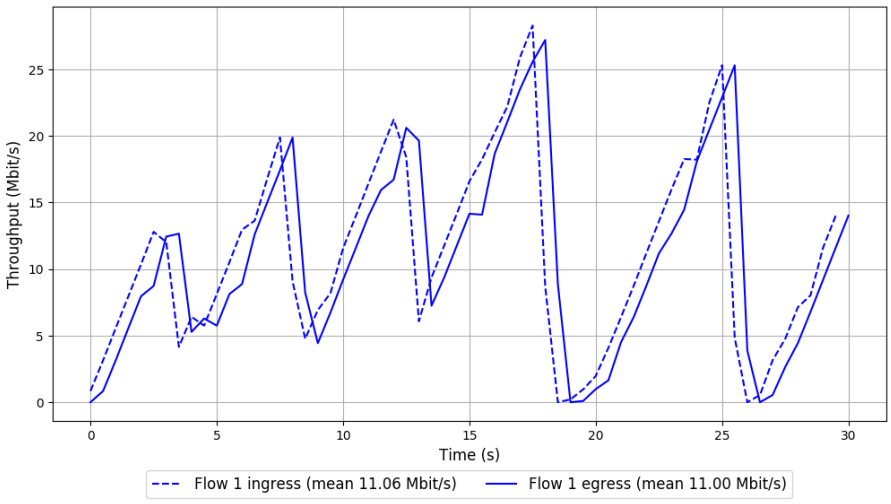


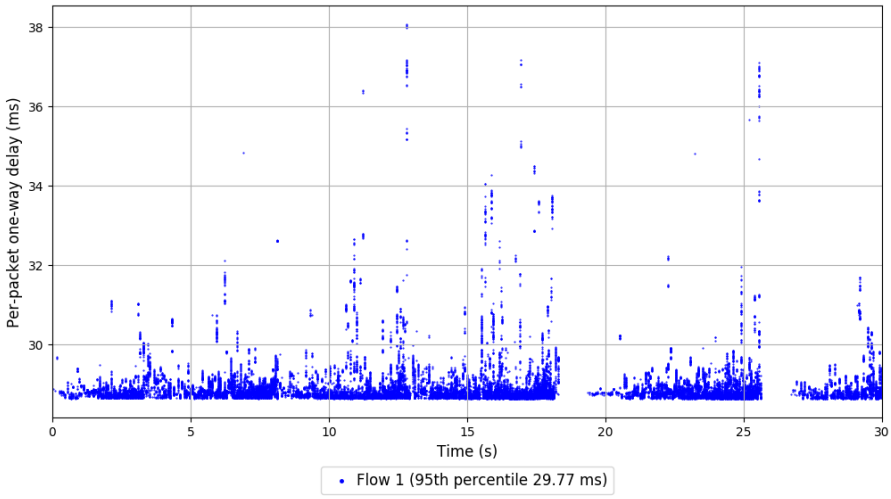
```
Run 2: Statistics of LEDBAT

Start at: 2021-03-08 22:59:54
End at: 2021-03-08 23:00:24

# Below is generated by plot.py at 2021-03-08 23:17:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.00 Mbit/s
95th percentile per-packet one-way delay: 29.774 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 11.00 Mbit/s
95th percentile per-packet one-way delay: 29.774 ms
Loss rate: 0.55%
```

Run 2: Report of LEDBAT — Data Link



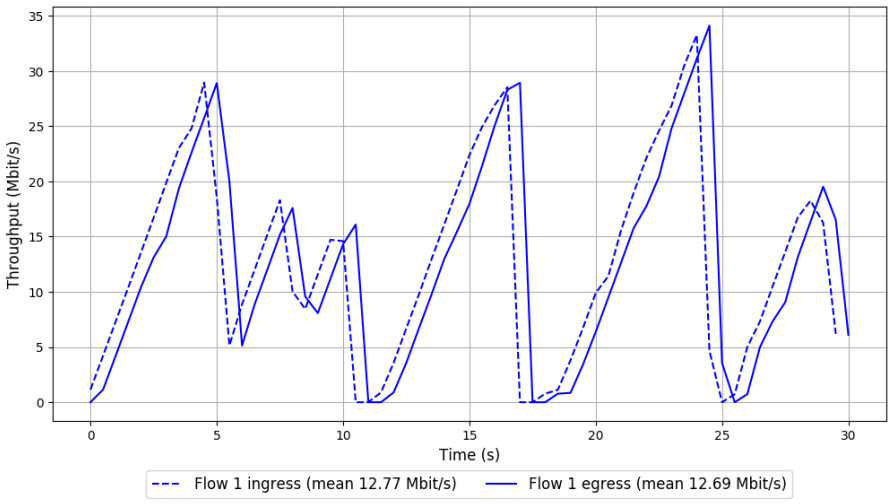


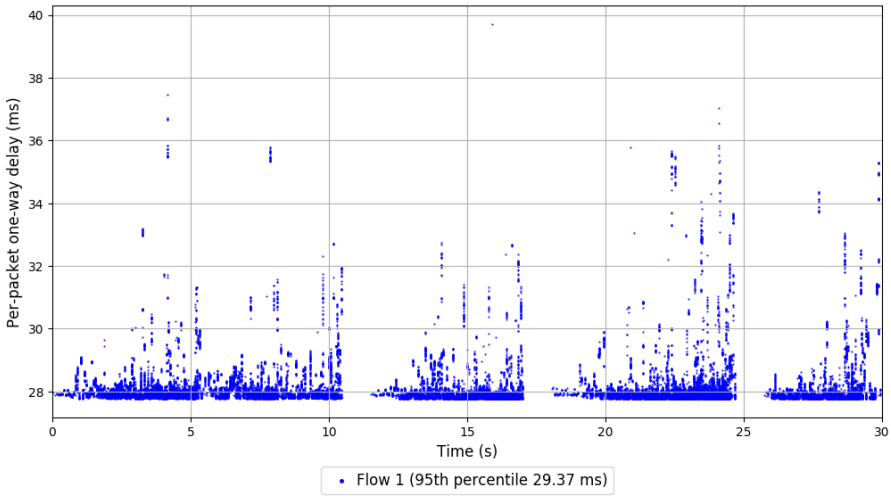
```
Run 3: Statistics of LEDBAT

Start at: 2021-03-08 23:09:00
End at: 2021-03-08 23:09:30

# Below is generated by plot.py at 2021-03-08 23:17:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.69 Mbit/s
95th percentile per-packet one-way delay: 29.367 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 12.69 Mbit/s
95th percentile per-packet one-way delay: 29.367 ms
Loss rate: 0.60%
```

Run 3: Report of LEDBAT — Data Link



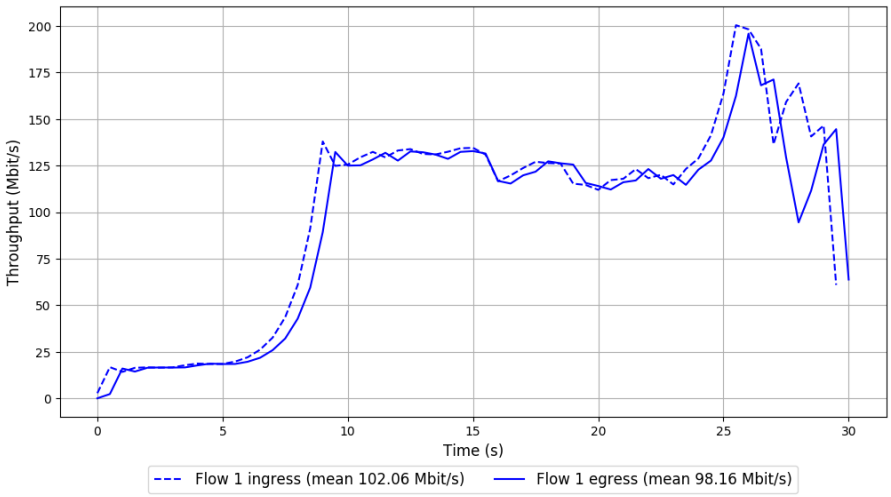


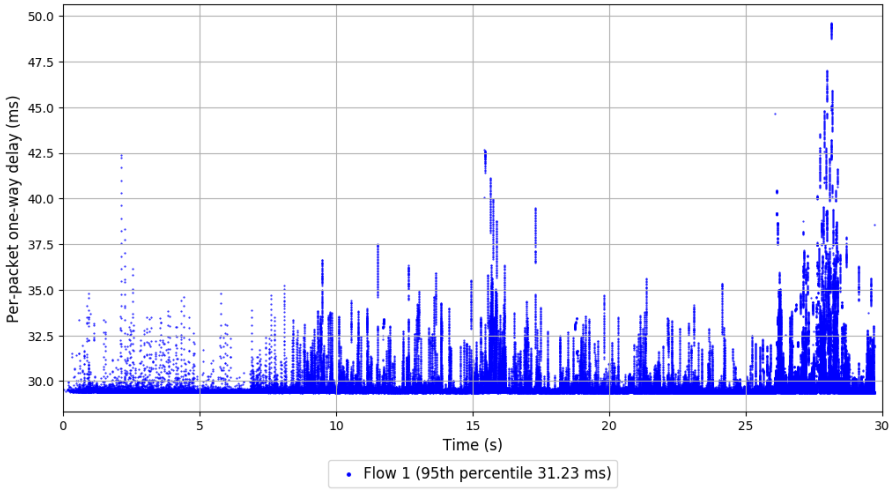
```
Run 1: Statistics of PCC-Allegro

Start at: 2021-03-08 22:51:33
End at: 2021-03-08 22:52:03

# Below is generated by plot.py at 2021-03-08 23:18:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 98.16 Mbit/s
95th percentile per-packet one-way delay: 31.228 ms
Loss rate: 3.85%
-- Flow 1:
Average throughput: 98.16 Mbit/s
95th percentile per-packet one-way delay: 31.228 ms
Loss rate: 3.85%
```

Run 1: Report of PCC-Allegro — Data Link



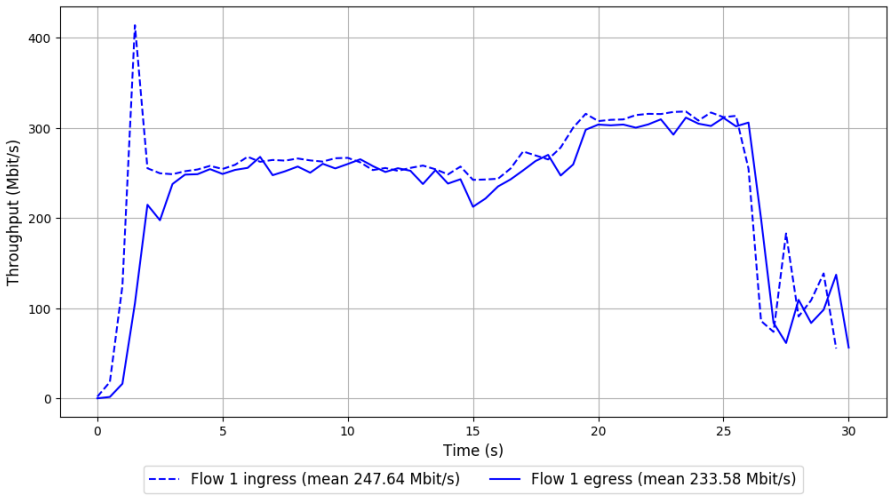


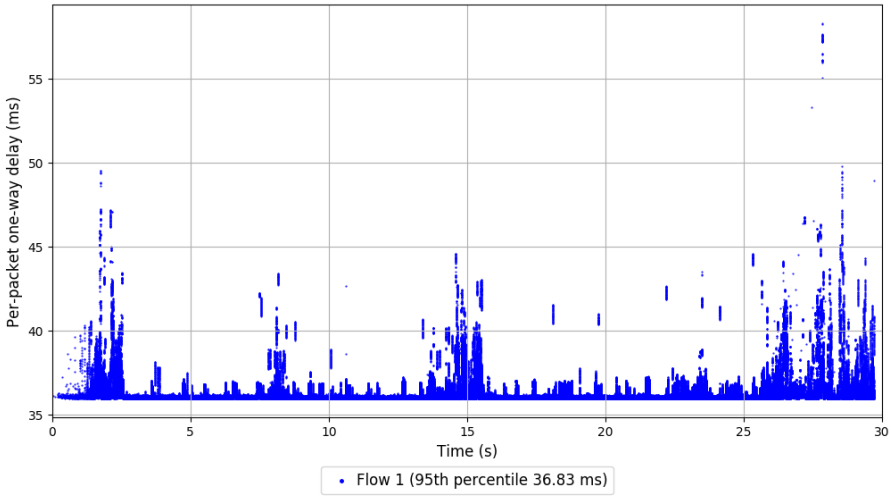
```
Run 2: Statistics of PCC-Allegro

Start at: 2021-03-08 23:00:34
End at: 2021-03-08 23:01:04

# Below is generated by plot.py at 2021-03-08 23:18:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 233.58 Mbit/s
95th percentile per-packet one-way delay: 36.827 ms
Loss rate: 5.66%
-- Flow 1:
Average throughput: 233.58 Mbit/s
95th percentile per-packet one-way delay: 36.827 ms
Loss rate: 5.66%
```

Run 2: Report of PCC-Allegro — Data Link



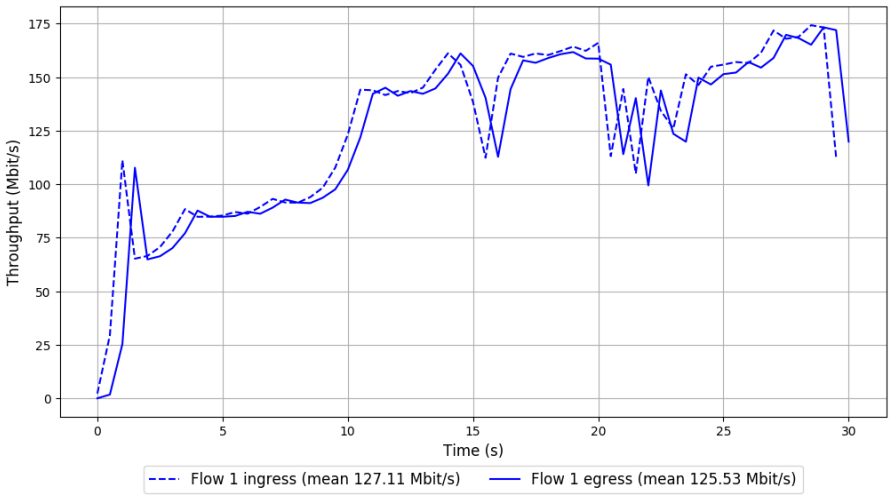


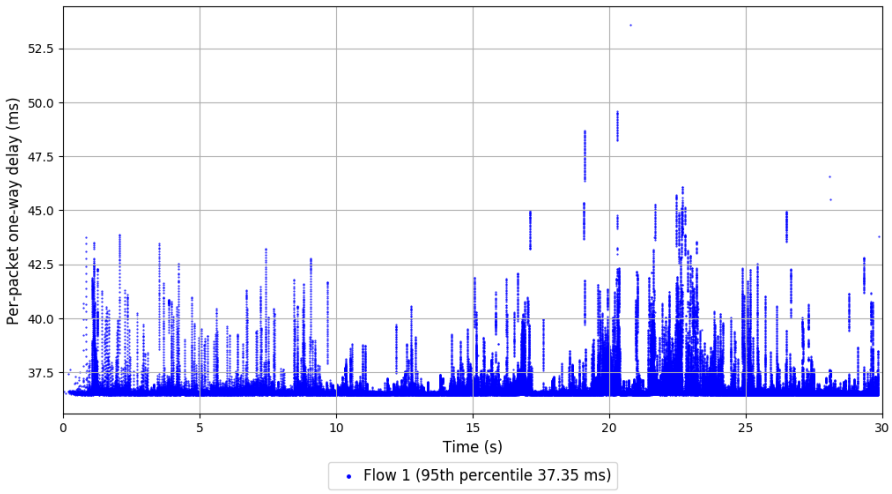
```
Run 3: Statistics of PCC-Allegro

Start at: 2021-03-08 23:09:40
End at: 2021-03-08 23:10:10

# Below is generated by plot.py at 2021-03-08 23:18:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 125.53 Mbit/s
95th percentile per-packet one-way delay: 37.353 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 125.53 Mbit/s
95th percentile per-packet one-way delay: 37.353 ms
Loss rate: 1.26%
```

Run 3: Report of PCC-Allegro — Data Link



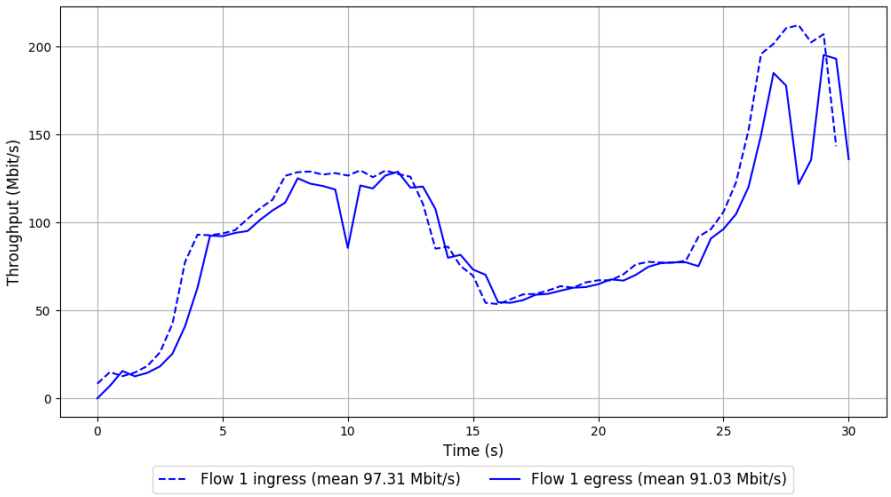


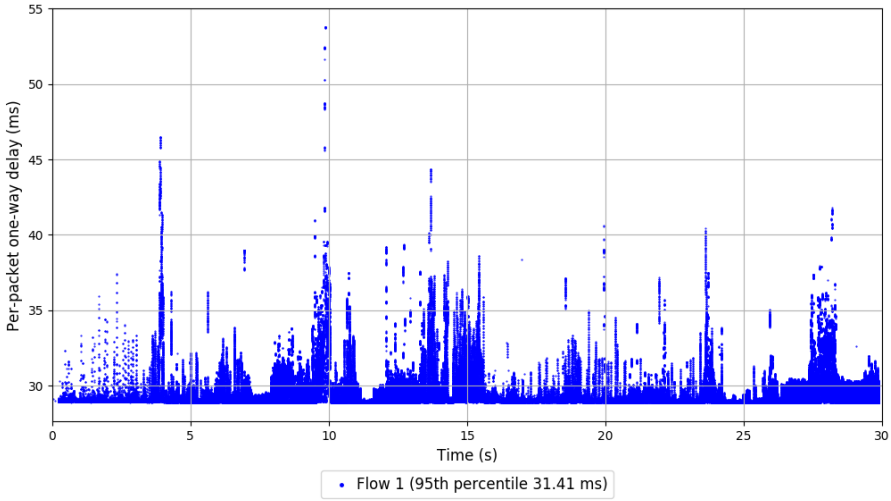
```
Run 1: Statistics of PCC-Expr

Start at: 2021-03-08 22:53:46
End at: 2021-03-08 22:54:16

# Below is generated by plot.py at 2021-03-08 23:19:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.03 Mbit/s
95th percentile per-packet one-way delay: 31.413 ms
Loss rate: 6.45%
-- Flow 1:
Average throughput: 91.03 Mbit/s
95th percentile per-packet one-way delay: 31.413 ms
Loss rate: 6.45%
```

Run 1: Report of PCC-Expr — Data Link



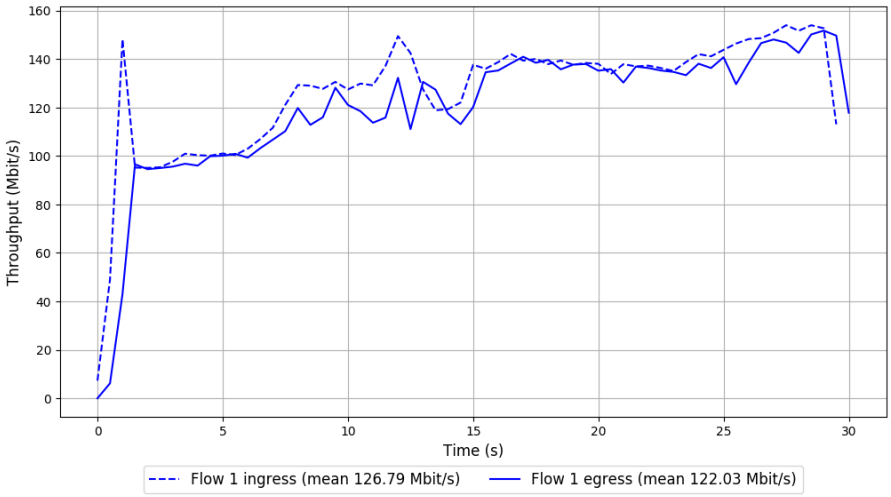


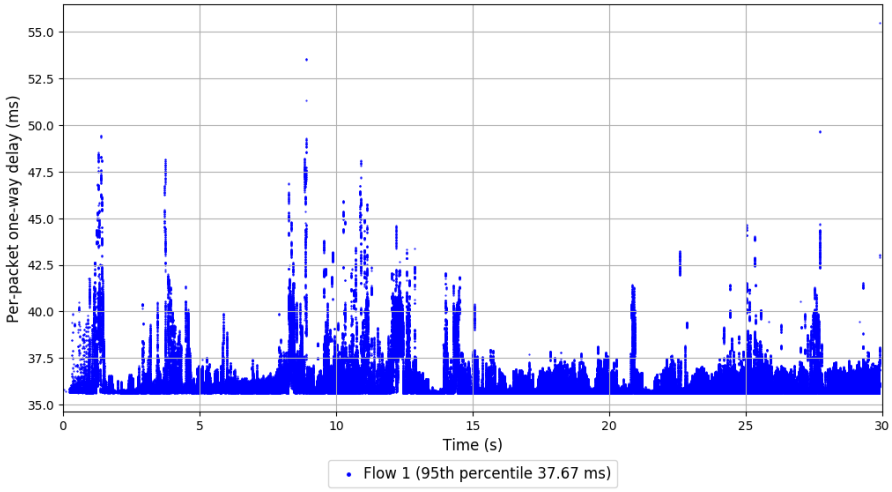
```
Run 2: Statistics of PCC-Expr

Start at: 2021-03-08 23:02:52
End at: 2021-03-08 23:03:22

# Below is generated by plot.py at 2021-03-08 23:19:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 122.03 Mbit/s
95th percentile per-packet one-way delay: 37.671 ms
Loss rate: 3.77%
-- Flow 1:
Average throughput: 122.03 Mbit/s
95th percentile per-packet one-way delay: 37.671 ms
Loss rate: 3.77%
```

Run 2: Report of PCC-Expr — Data Link



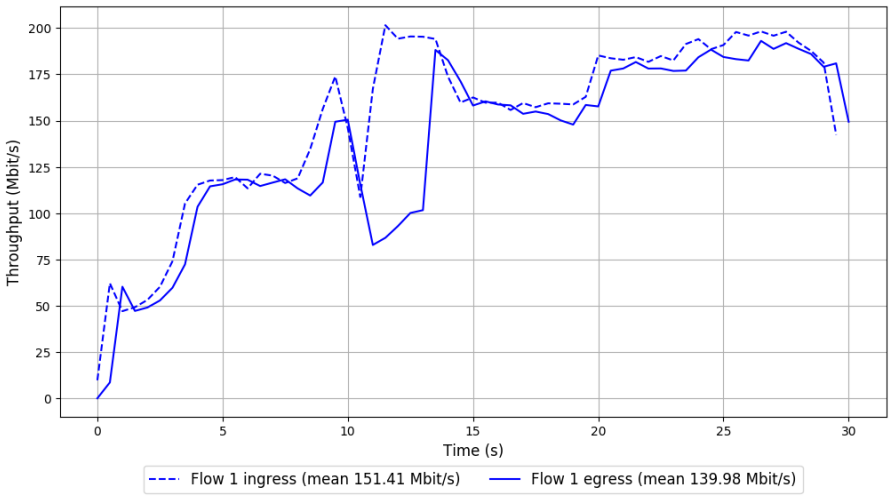


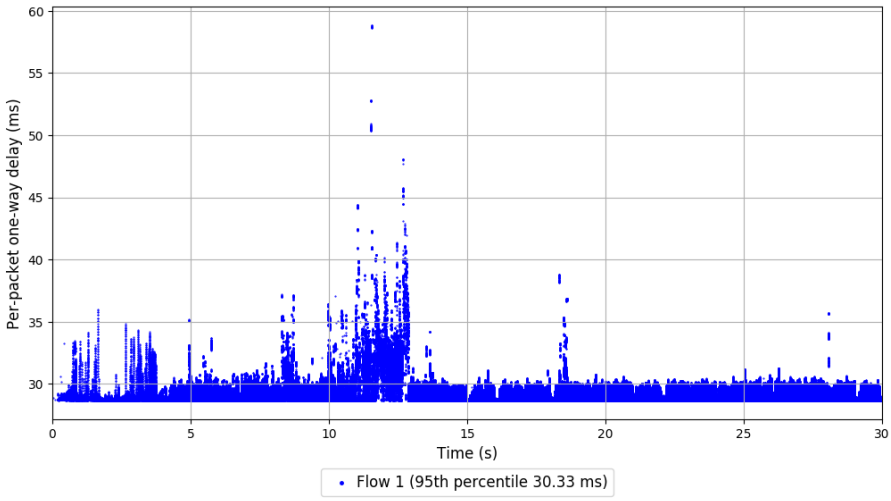
```
Run 3: Statistics of PCC-Expr

Start at: 2021-03-08 23:11:52
End at: 2021-03-08 23:12:22

# Below is generated by plot.py at 2021-03-08 23:20:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 139.98 Mbit/s
95th percentile per-packet one-way delay: 30.330 ms
Loss rate: 7.58%
-- Flow 1:
Average throughput: 139.98 Mbit/s
95th percentile per-packet one-way delay: 30.330 ms
Loss rate: 7.58%
```

Run 3: Report of PCC-Expr — Data Link



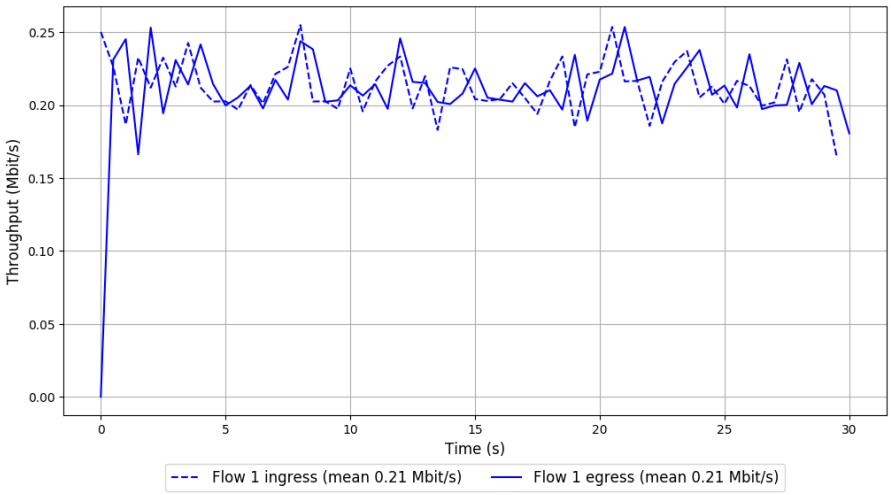


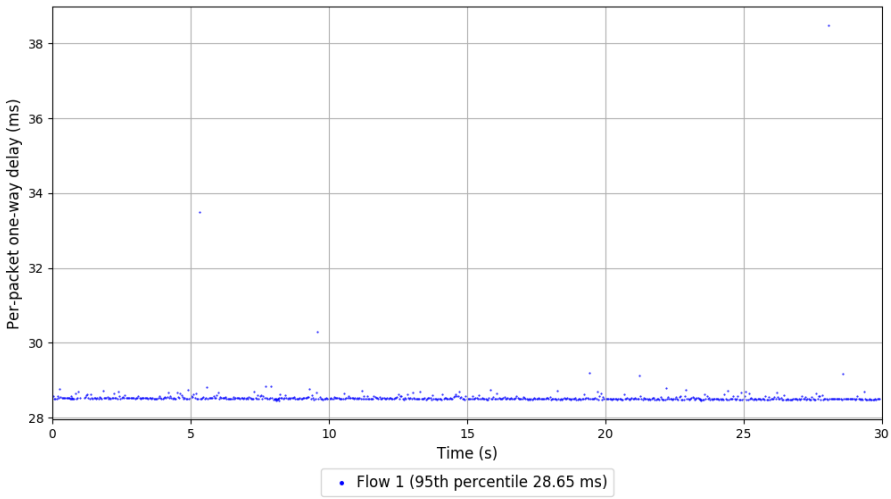
```
Run 1: Statistics of SCReAM

Start at: 2021-03-08 22:52:16
End at: 2021-03-08 22:52:46

# Below is generated by plot.py at 2021-03-08 23:20:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 28.653 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 28.653 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link



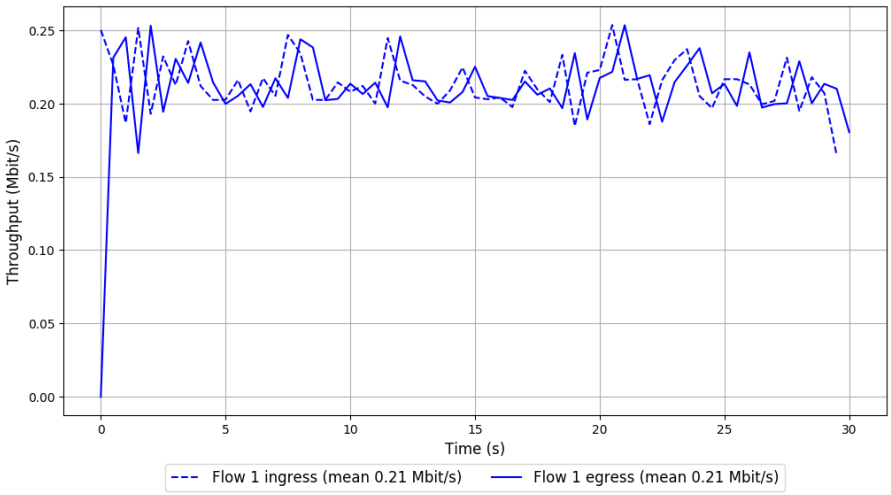


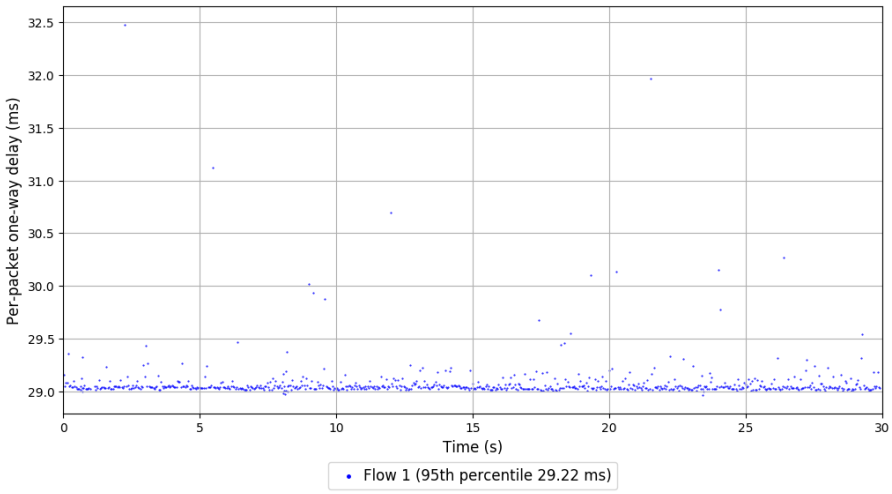
```
Run 2: Statistics of SCReAM

Start at: 2021-03-08 23:01:21
End at: 2021-03-08 23:01:51

# Below is generated by plot.py at 2021-03-08 23:20:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 29.220 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 29.220 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link



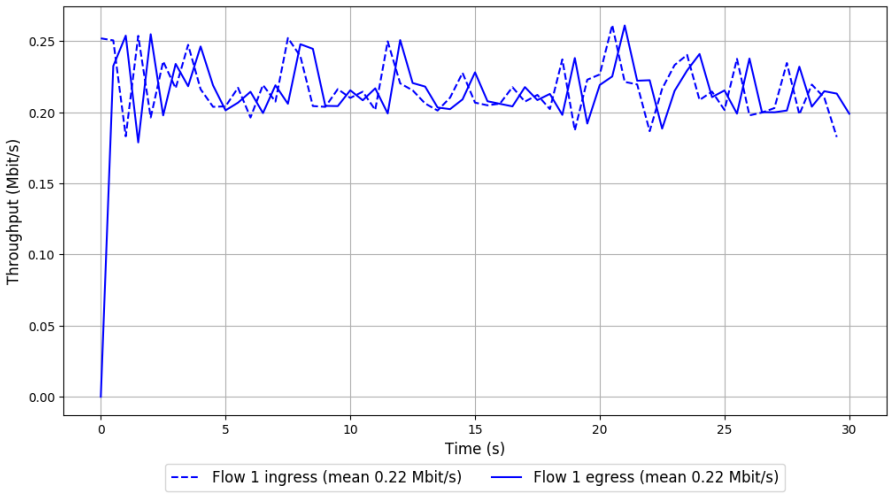


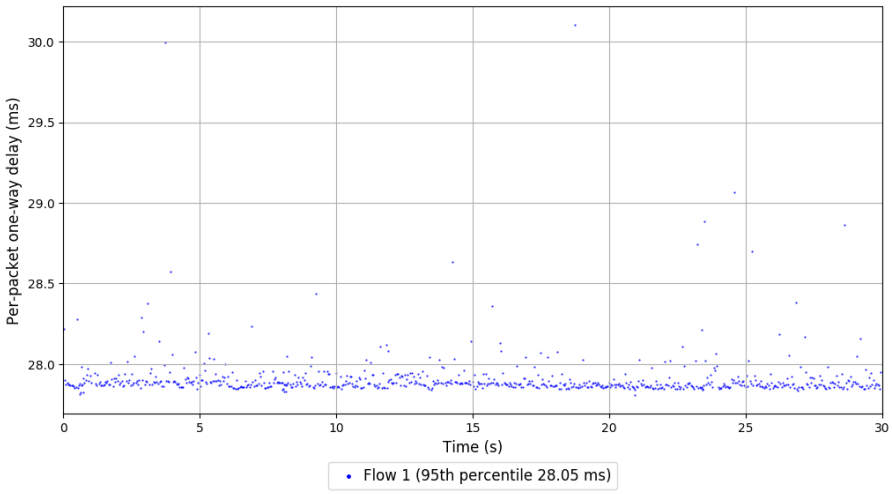
```
Run 3: Statistics of SCReAM

Start at: 2021-03-08 23:10:24
End at: 2021-03-08 23:10:54

# Below is generated by plot.py at 2021-03-08 23:20:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.050 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.050 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link



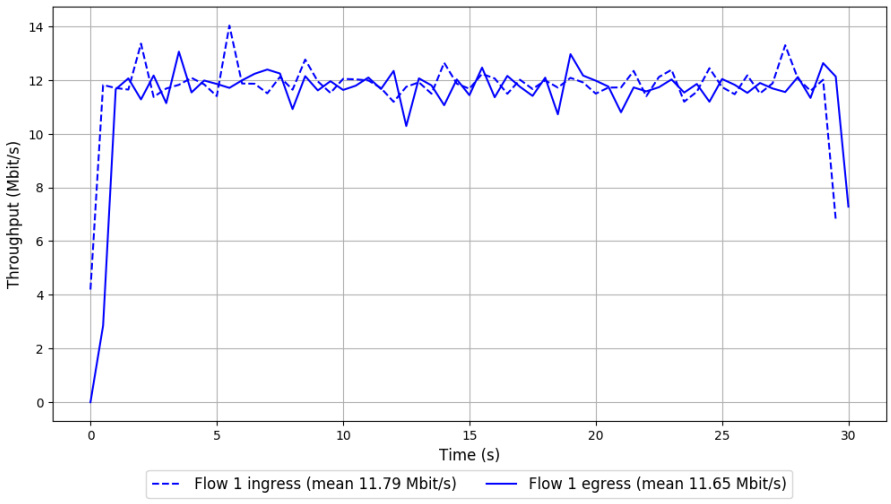


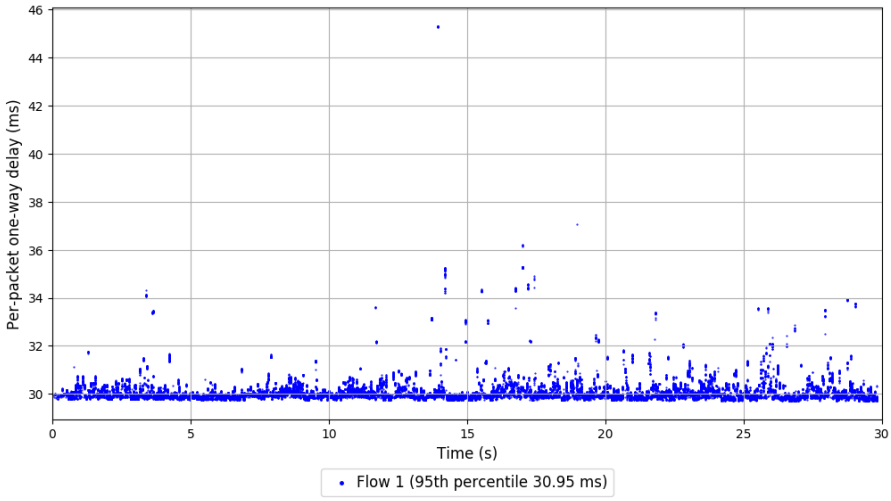
```
Run 1: Statistics of Sprout

Start at: 2021-03-08 22:47:55
End at: 2021-03-08 22:48:25

# Below is generated by plot.py at 2021-03-08 23:20:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.65 Mbit/s
95th percentile per-packet one-way delay: 30.949 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 11.65 Mbit/s
95th percentile per-packet one-way delay: 30.949 ms
Loss rate: 1.17%
```

Run 1: Report of Sprout — Data Link



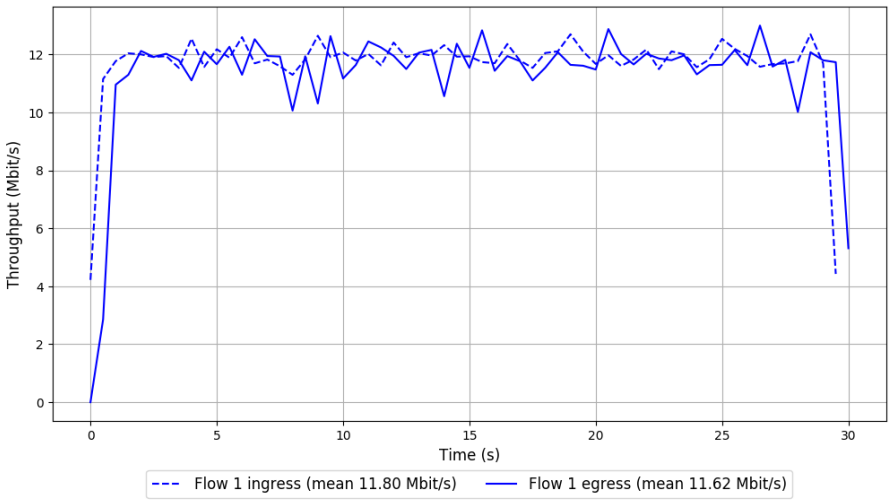


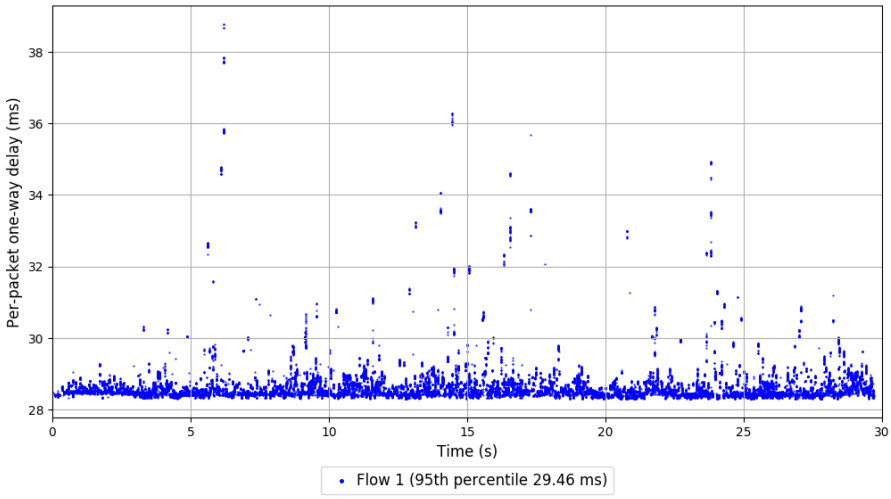
```
Run 2: Statistics of Sprout

Start at: 2021-03-08 22:57:02
End at: 2021-03-08 22:57:32

# Below is generated by plot.py at 2021-03-08 23:20:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.62 Mbit/s
95th percentile per-packet one-way delay: 29.463 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 11.62 Mbit/s
95th percentile per-packet one-way delay: 29.463 ms
Loss rate: 1.56%
```

Run 2: Report of Sprout — Data Link



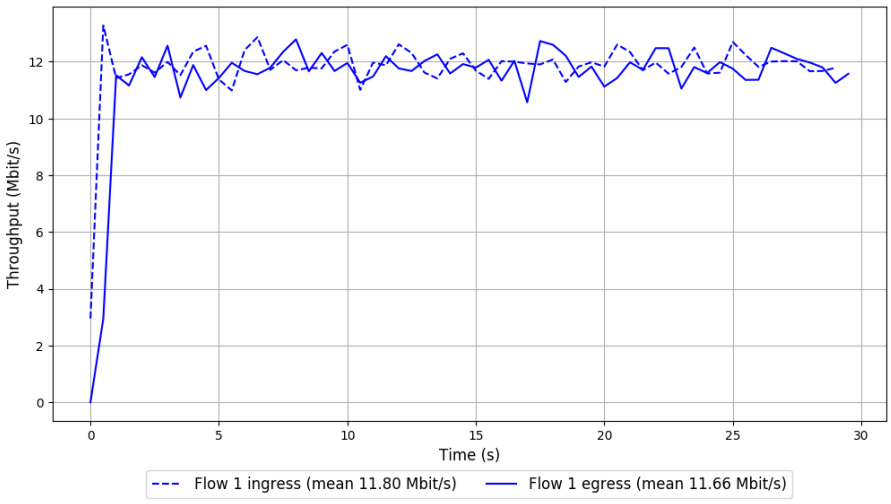


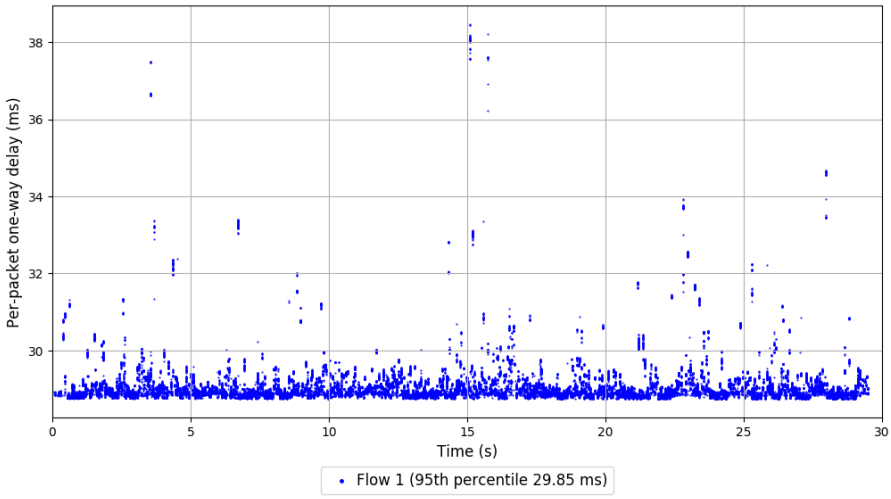
```
Run 3: Statistics of Sprout

Start at: 2021-03-08 23:06:08
End at: 2021-03-08 23:06:38

# Below is generated by plot.py at 2021-03-08 23:20:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.66 Mbit/s
95th percentile per-packet one-way delay: 29.848 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 11.66 Mbit/s
95th percentile per-packet one-way delay: 29.848 ms
Loss rate: 1.23%
```

Run 3: Report of Sprout — Data Link



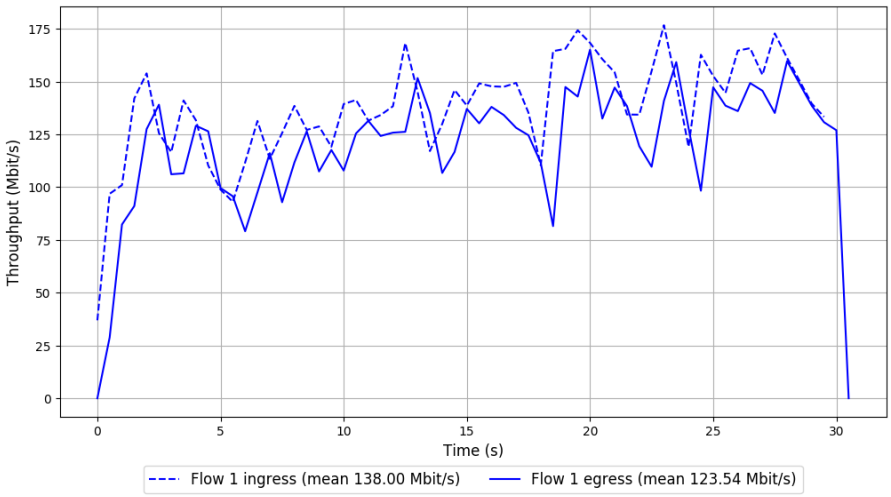


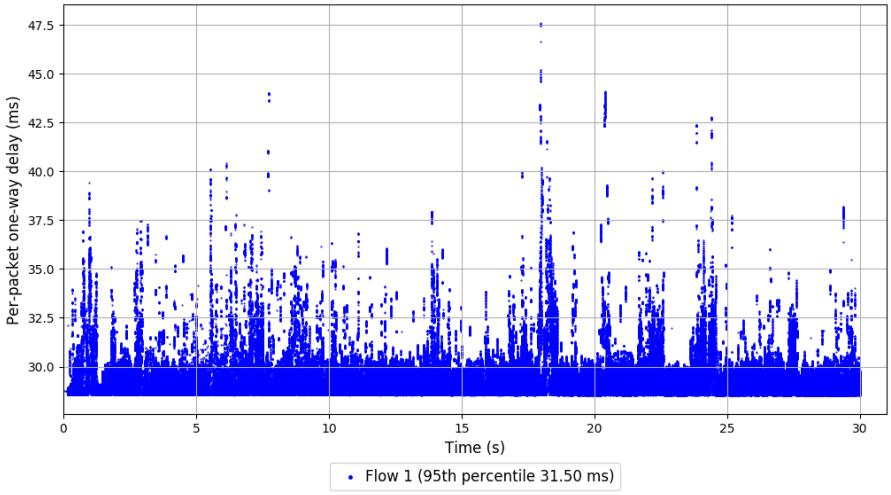
```
Run 1: Statistics of TaoVA-100x

Start at: 2021-03-08 22:52:56
End at: 2021-03-08 22:53:26

# Below is generated by plot.py at 2021-03-08 23:20:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 123.54 Mbit/s
95th percentile per-packet one-way delay: 31.496 ms
Loss rate: 10.48%
-- Flow 1:
Average throughput: 123.54 Mbit/s
95th percentile per-packet one-way delay: 31.496 ms
Loss rate: 10.48%
```

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



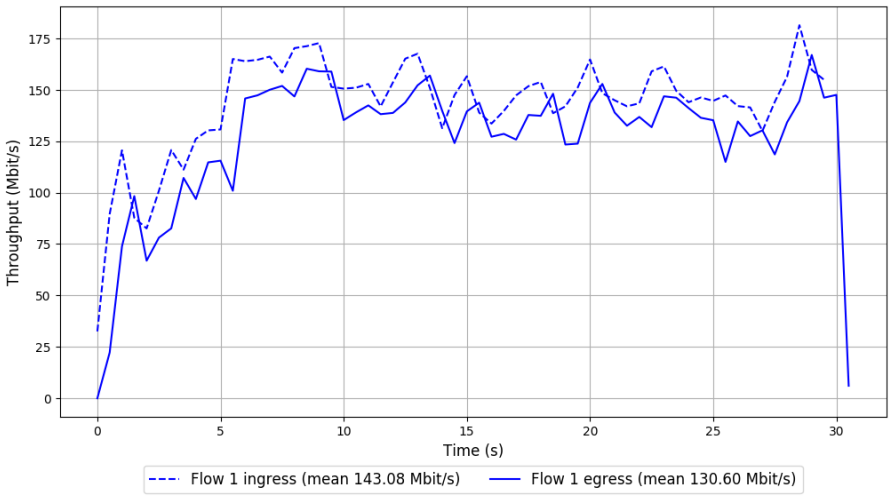


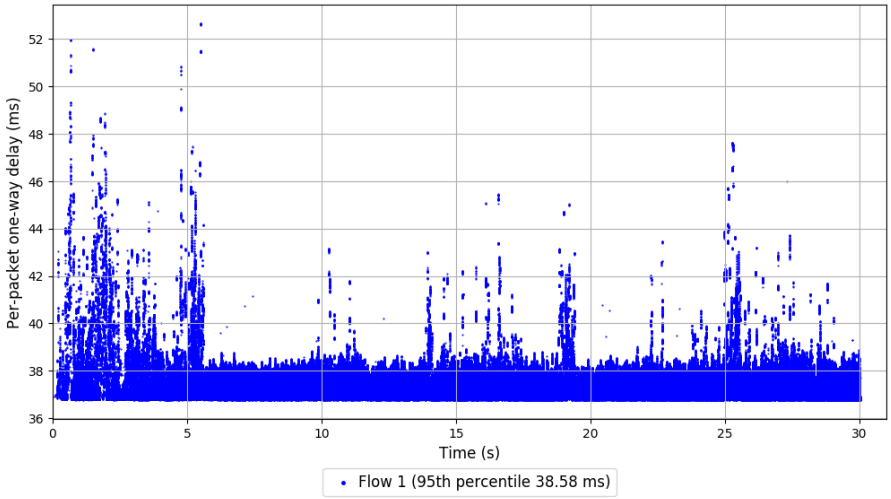
```
Run 2: Statistics of TaoVA-100x

Start at: 2021-03-08 23:02:01
End at: 2021-03-08 23:02:31

# Below is generated by plot.py at 2021-03-08 23:20:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 130.60 Mbit/s
95th percentile per-packet one-way delay: 38.579 ms
Loss rate: 8.75%
-- Flow 1:
Average throughput: 130.60 Mbit/s
95th percentile per-packet one-way delay: 38.579 ms
Loss rate: 8.75%
```

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



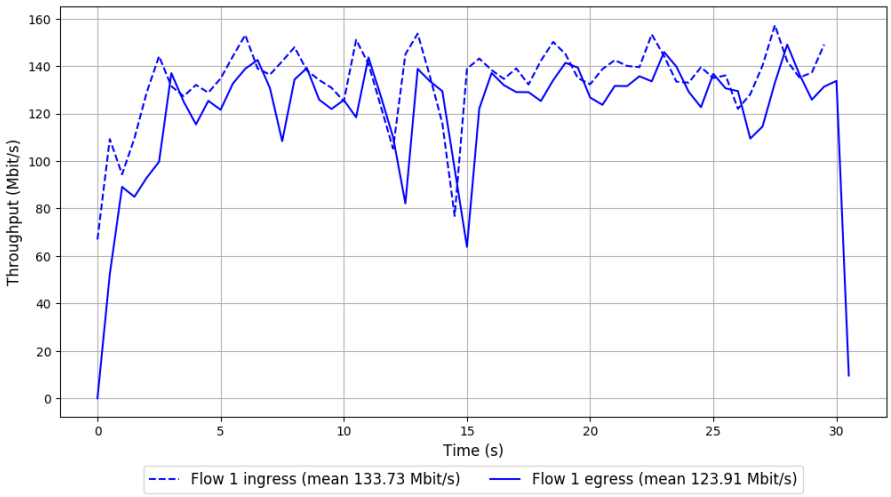


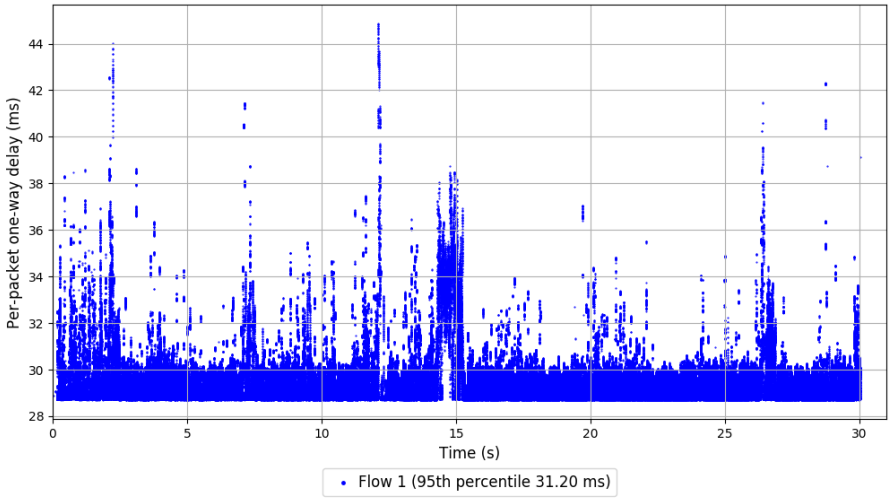
```
Run 3: Statistics of TaoVA-100x

Start at: 2021-03-08 23:11:02
End at: 2021-03-08 23:11:32

# Below is generated by plot.py at 2021-03-08 23:21:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 123.91 Mbit/s
95th percentile per-packet one-way delay: 31.196 ms
Loss rate: 7.31%
-- Flow 1:
Average throughput: 123.91 Mbit/s
95th percentile per-packet one-way delay: 31.196 ms
Loss rate: 7.31%
```

Run 3: Report of TaoVA-100x — Data Link



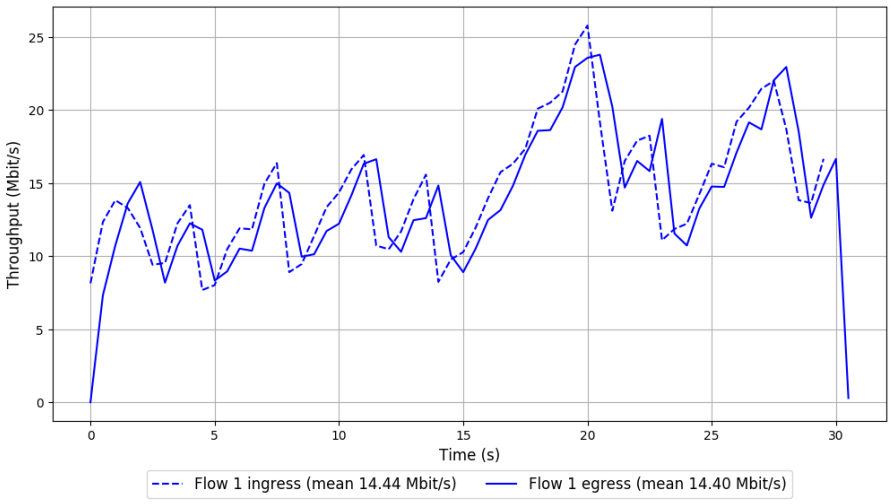


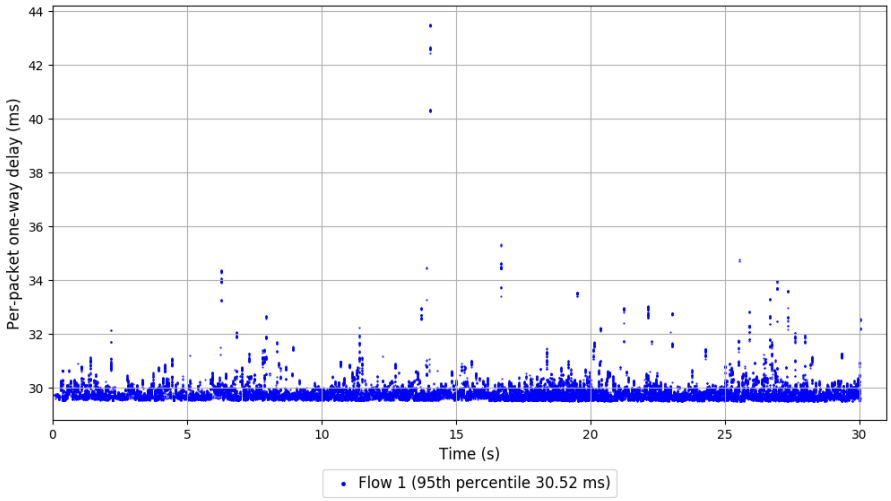
```
Run 1: Statistics of TCP Vegas

Start at: 2021-03-08 22:50:10
End at: 2021-03-08 22:50:40

# Below is generated by plot.py at 2021-03-08 23:21:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 14.40 Mbit/s
95th percentile per-packet one-way delay: 30.516 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 14.40 Mbit/s
95th percentile per-packet one-way delay: 30.516 ms
Loss rate: 0.25%
```

Run 1: Report of TCP Vegas — Data Link



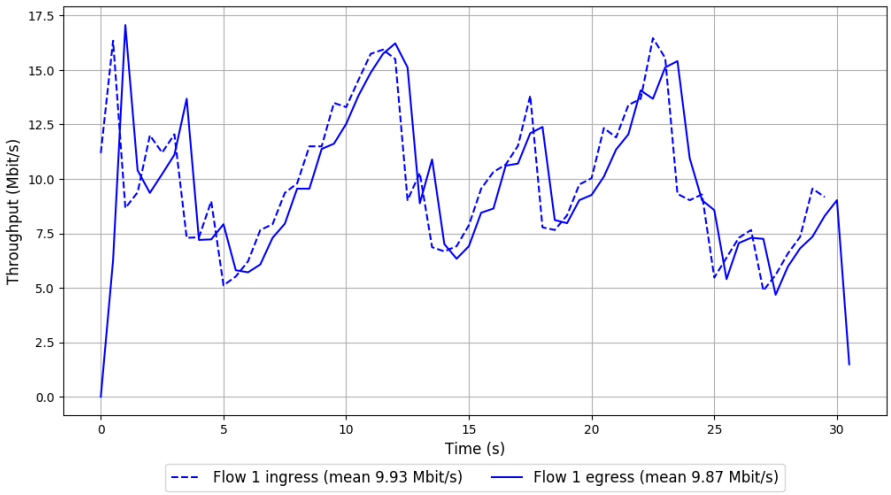


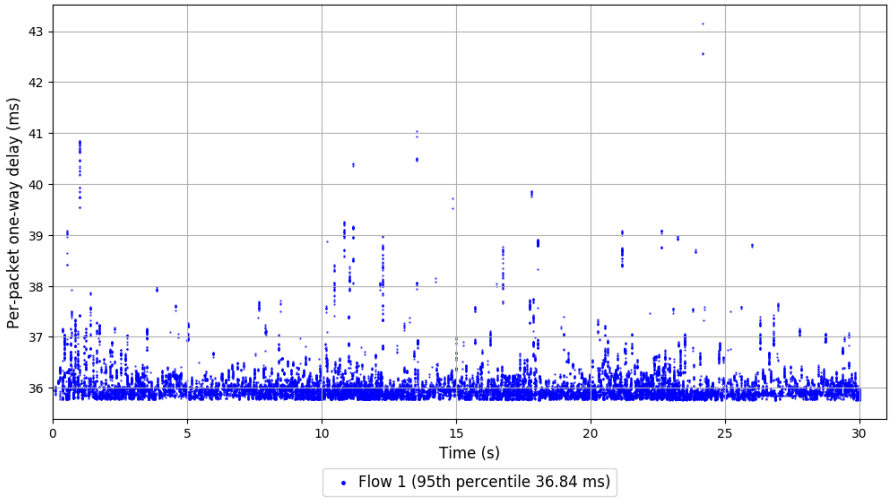
```
Run 2: Statistics of TCP Vegas

Start at: 2021-03-08 22:59:13
End at: 2021-03-08 22:59:43

# Below is generated by plot.py at 2021-03-08 23:21:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.87 Mbit/s
95th percentile per-packet one-way delay: 36.843 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 9.87 Mbit/s
95th percentile per-packet one-way delay: 36.843 ms
Loss rate: 0.58%
```

Run 2: Report of TCP Vegas — Data Link



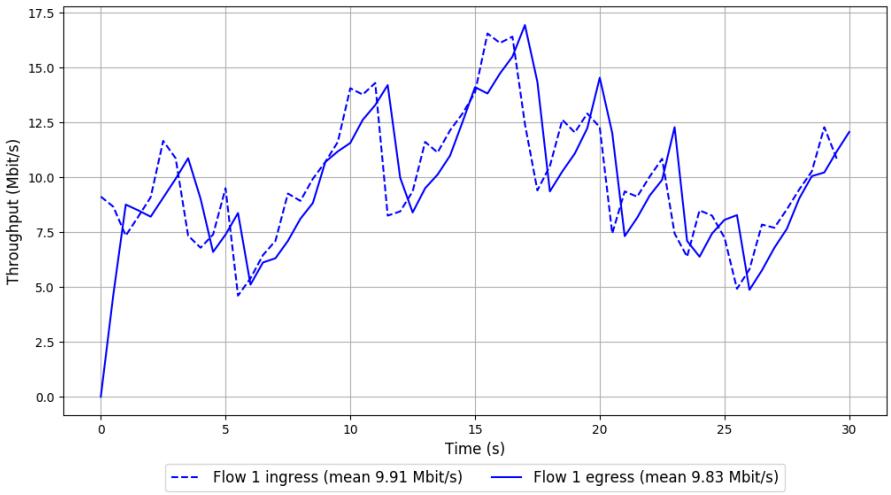


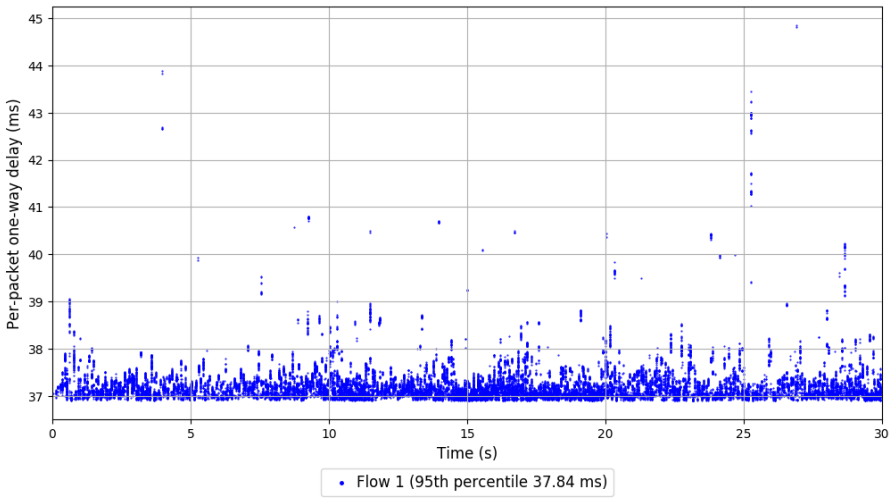
```
Run 3: Statistics of TCP Vegas

Start at: 2021-03-08 23:08:19
End at: 2021-03-08 23:08:49

# Below is generated by plot.py at 2021-03-08 23:21:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.83 Mbit/s
95th percentile per-packet one-way delay: 37.845 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 9.83 Mbit/s
95th percentile per-packet one-way delay: 37.845 ms
Loss rate: 0.79%
```

Run 3: Report of TCP Vegas — Data Link



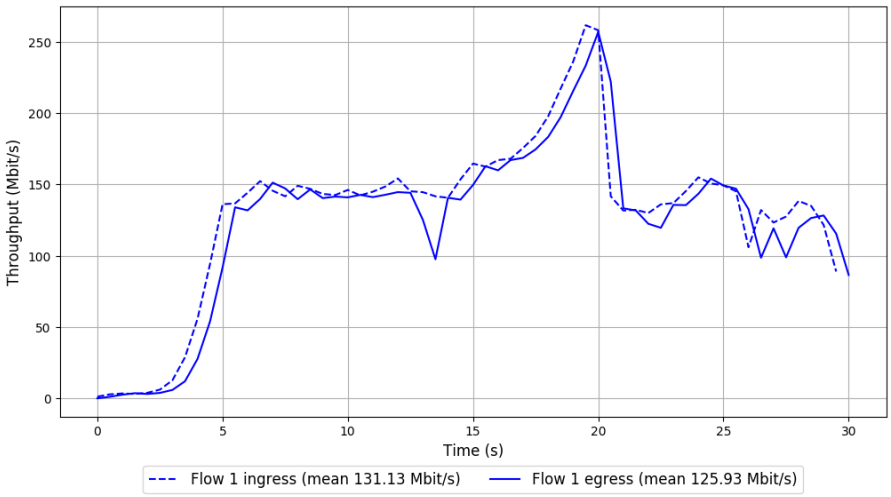


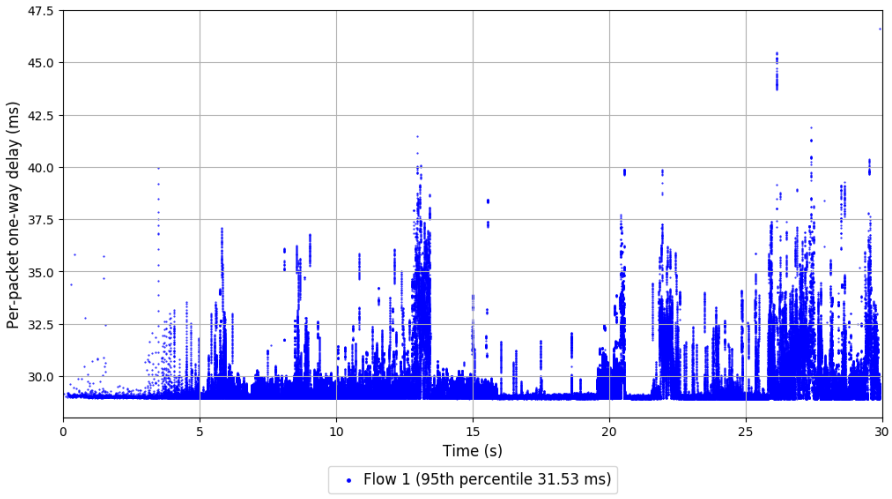
```
Run 1: Statistics of PCC-Vivace

Start at: 2021-03-08 22:48:36
End at: 2021-03-08 22:49:06

# Below is generated by plot.py at 2021-03-08 23:21:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 125.93 Mbit/s
95th percentile per-packet one-way delay: 31.529 ms
Loss rate: 3.92%
-- Flow 1:
Average throughput: 125.93 Mbit/s
95th percentile per-packet one-way delay: 31.529 ms
Loss rate: 3.92%
```

Run 1: Report of PCC-Vivace — Data Link



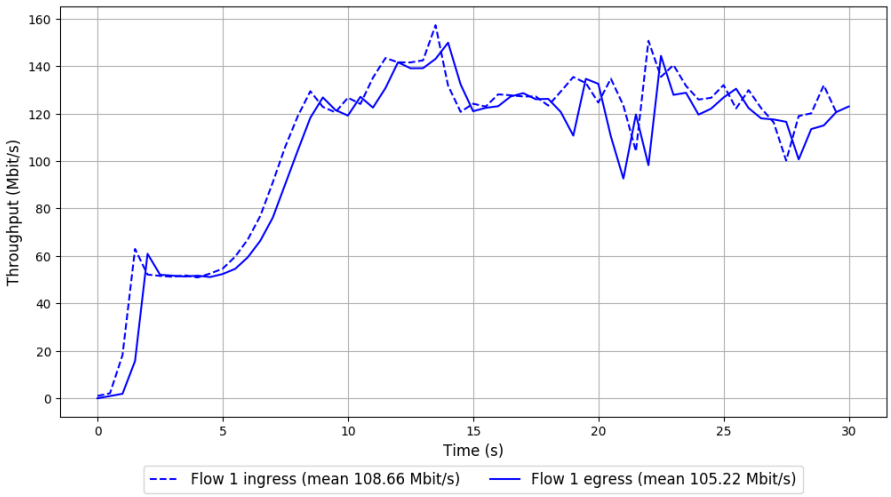


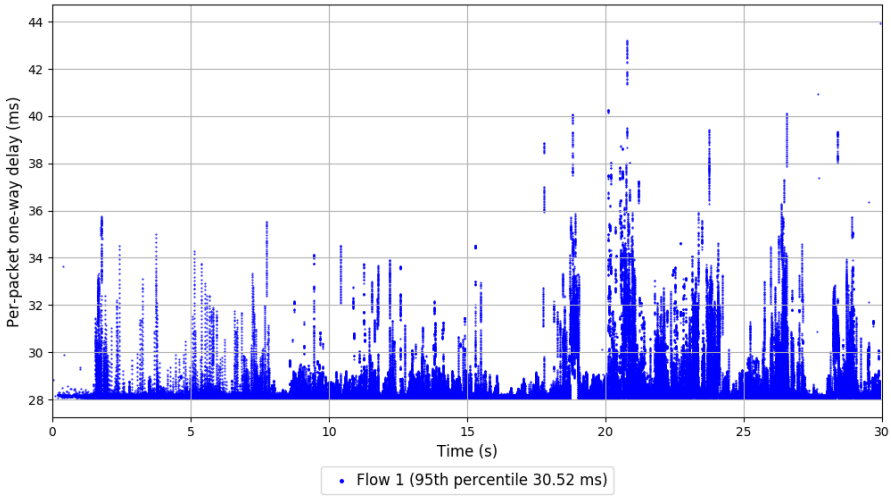
```
Run 2: Statistics of PCC-Vivace

Start at: 2021-03-08 22:57:42
End at: 2021-03-08 22:58:12

# Below is generated by plot.py at 2021-03-08 23:21:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 105.22 Mbit/s
95th percentile per-packet one-way delay: 30.522 ms
Loss rate: 3.13%
-- Flow 1:
Average throughput: 105.22 Mbit/s
95th percentile per-packet one-way delay: 30.522 ms
Loss rate: 3.13%
```

Run 2: Report of PCC-Vivace — Data Link





```
Run 3: Statistics of PCC-Vivace

Start at: 2021-03-08 23:06:48
End at: 2021-03-08 23:07:18

# Below is generated by plot.py at 2021-03-08 23:21:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.55 Mbit/s
95th percentile per-packet one-way delay: 29.428 ms
Loss rate: 1.97%
-- Flow 1:
Average throughput: 95.55 Mbit/s
95th percentile per-packet one-way delay: 29.428 ms
Loss rate: 1.97%
```

Run 3: Report of PCC-Vivace — Data Link