Pantheon Report

Generated at 2018-08-01 19:54:00 (UTC).

Data path: Brazil Ethernet (*remote*) →AWS Brazil 1 Ethernet (*local*).

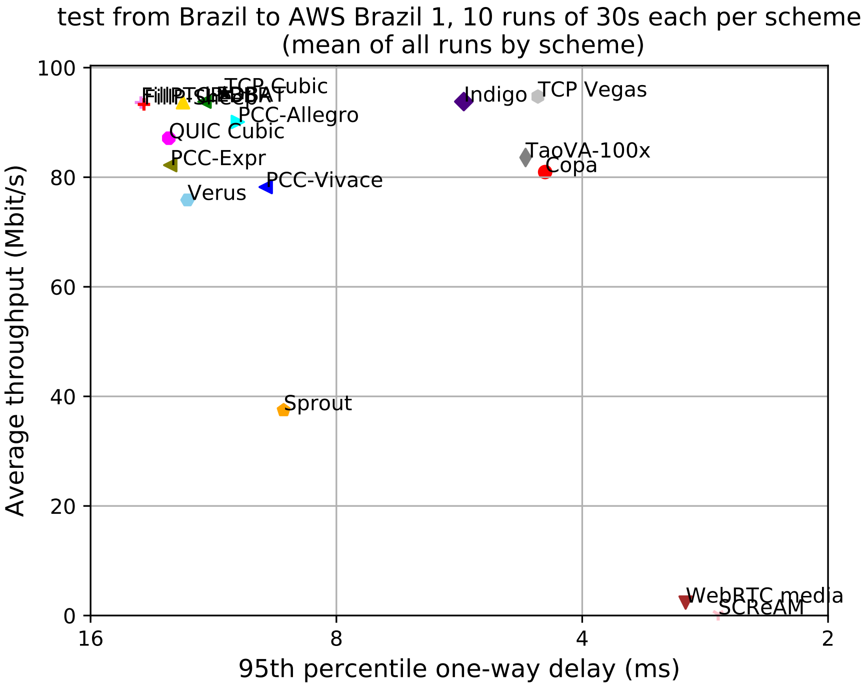
Repeated the test of 17 congestion control schemes 10 times.

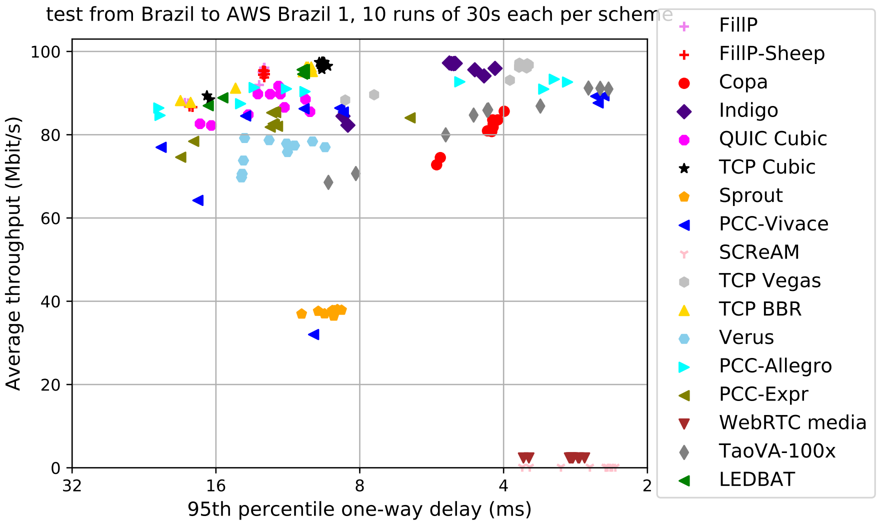
Each test lasted for 30 seconds running 1 flow.

Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

NTP offsets were measured against `gps.ntp.br` and have been applied to correct the timestamps in logs.

```
Git summary:
branch: master @ 640164b5b17c7c6561fff57729b3b5935d8596ce
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfe58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
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
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
 M src/verus.hpp
 M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

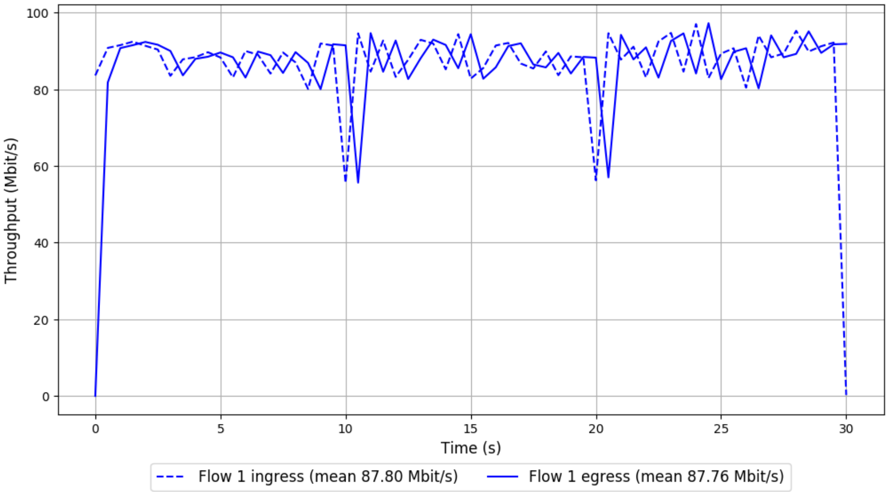

test from Brazil to AWS Brazil 1, 10 runs of 30s each per scheme
(mean of all runs by scheme)
Average throughput (Mbit/s)
100
80
60
40
20
0
16
8
4
2
95th percentile one-way delay (ms)
FillP
FillP-Sheep
TCP BBR
LEDBAT
TCP Cubic
PCC-Allegro
QUIC Cubic
PCC-Expr
Verus
PCC-Vivace
Indigo
TCP Vegas
TaoVA-100x
Copa
Sprout
WebRTC media
SCReAM

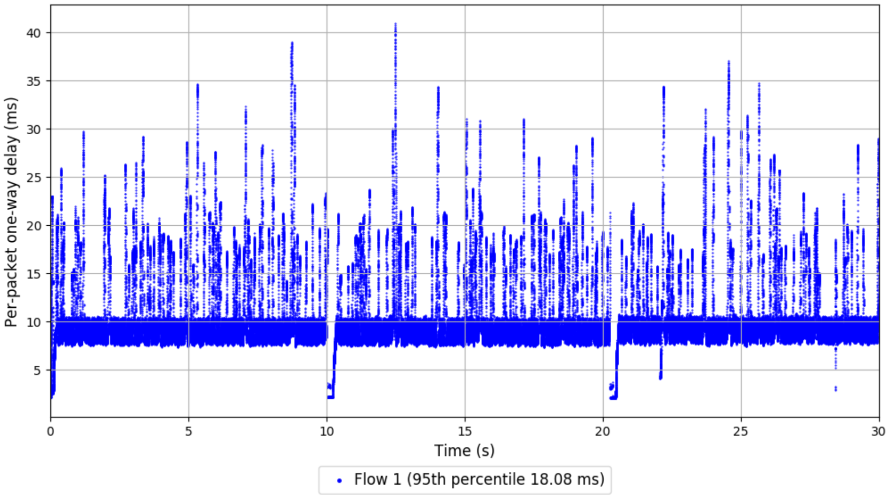

test from Brazil to AWS Brazil 1, 10 runs of 30s each per scheme
Average throughput (Mbit/s)
100
80
60
40
20
0
32
16
8
4
2
95th percentile one-way delay (ms)
FillP
FillP-Sheep
Copa
Indigo
QUIC Cubic
TCP Cubic
Sprout
PCC-Vivace
SCReAM
TCP Vegas
TCP BBR
Verus
PCC-Allegro
PCC-Expr
WebRTC media
TaoVA-100x
LEDBAT

scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	93.68	12.33	0.05
Copa	10	80.94	4.44	0.02
TCP Cubic	10	95.34	10.97	0.06
FillP	10	93.64	13.88	0.04
FillP-Sheep	10	93.29	13.76	0.05
Indigo	10	93.80	5.59	0.02
LEDBAT	10	93.79	11.60	0.07
PCC-Allegro	10	90.09	10.56	0.69
PCC-Expr	10	82.21	12.78	0.09
QUIC Cubic	10	87.12	12.83	0.04
SCReAM	10	0.22	2.73	0.00
Sprout	10	37.48	9.28	0.02
TaoVA-100x	10	83.60	4.69	0.02
TCP Vegas	10	94.72	4.53	0.02
Verus	10	75.86	12.17	0.04
PCC-Vivace	10	78.21	9.76	0.17
WebRTC media	10	2.36	2.99	0.03

```
Run 1: Statistics of TCP BBR

Start at: 2018-08-01 16:23:27
End at: 2018-08-01 16:23:57
Local clock offset: -5.917 ms
Remote clock offset: -1.835 ms

# Below is generated by plot.py at 2018-08-01 19:31:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.76 Mbit/s
95th percentile per-packet one-way delay: 18.076 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 87.76 Mbit/s
95th percentile per-packet one-way delay: 18.076 ms
Loss rate: 0.06%
```

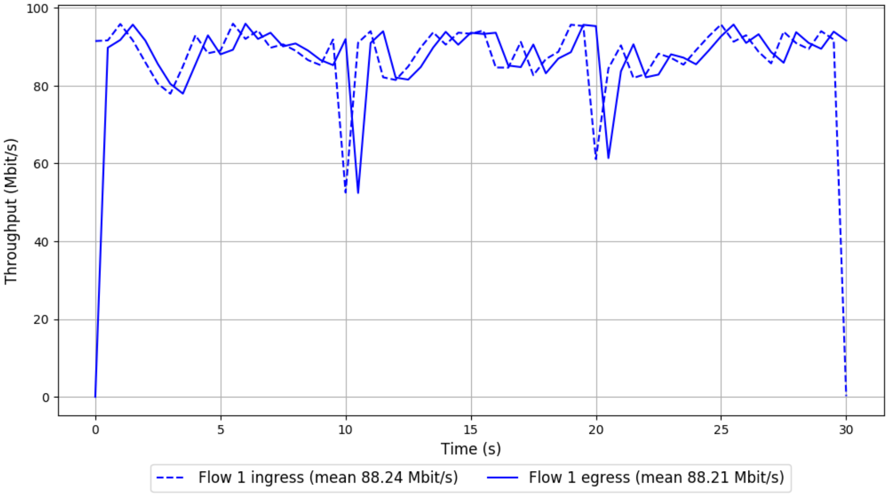
Run 1: Report of TCP BBR — Data Link

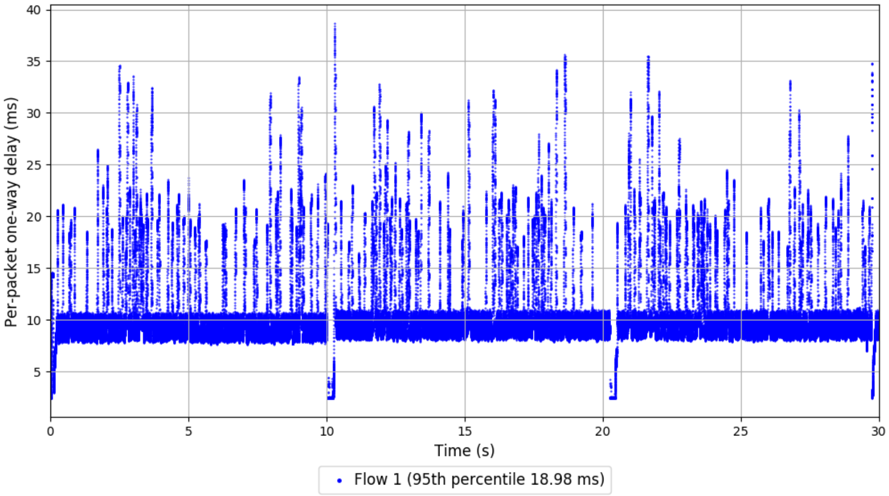




```
Run 2: Statistics of TCP BBR

Start at: 2018-08-01 16:42:24
End at: 2018-08-01 16:42:54
Local clock offset: -2.989 ms
Remote clock offset: -1.812 ms

# Below is generated by plot.py at 2018-08-01 19:31:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.21 Mbit/s
95th percentile per-packet one-way delay: 18.981 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 88.21 Mbit/s
95th percentile per-packet one-way delay: 18.981 ms
Loss rate: 0.06%
```

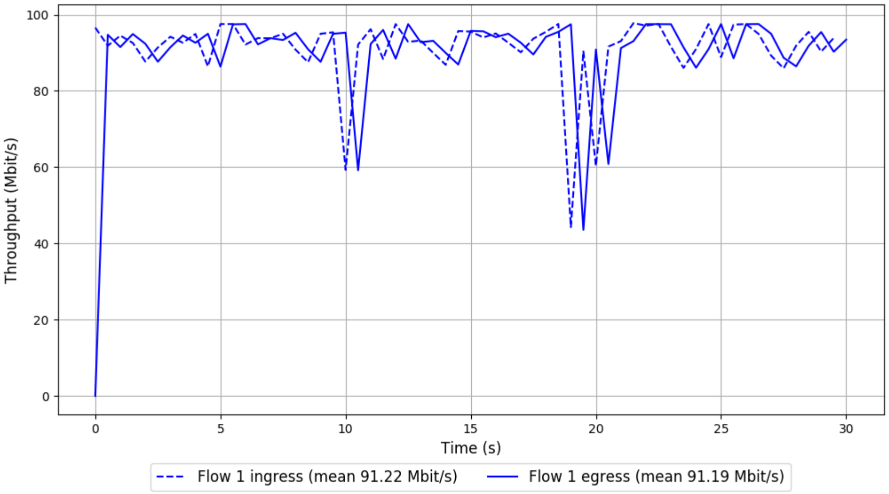
Run 2: Report of TCP BBR — Data Link

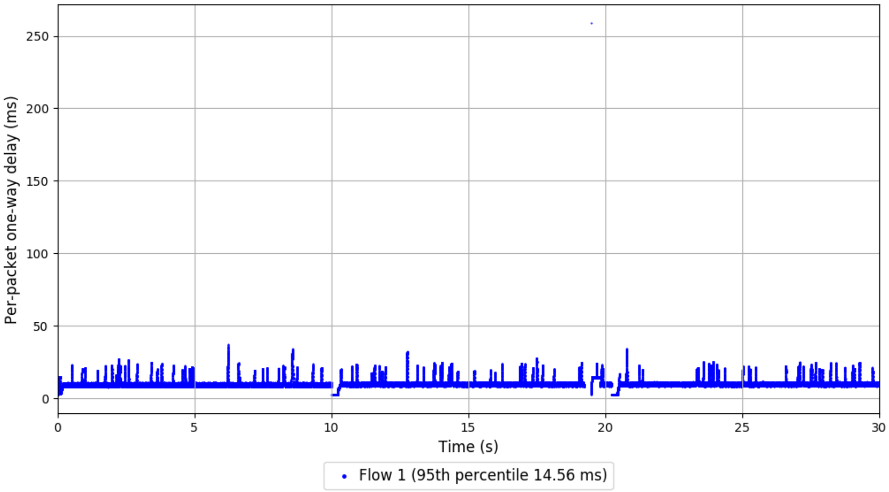




```
Run 3: Statistics of TCP BBR

Start at: 2018-08-01 17:01:20
End at: 2018-08-01 17:01:50
Local clock offset: -5.3 ms
Remote clock offset: -2.615 ms

# Below is generated by plot.py at 2018-08-01 19:31:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.19 Mbit/s
95th percentile per-packet one-way delay: 14.556 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 91.19 Mbit/s
95th percentile per-packet one-way delay: 14.556 ms
Loss rate: 0.05%
```

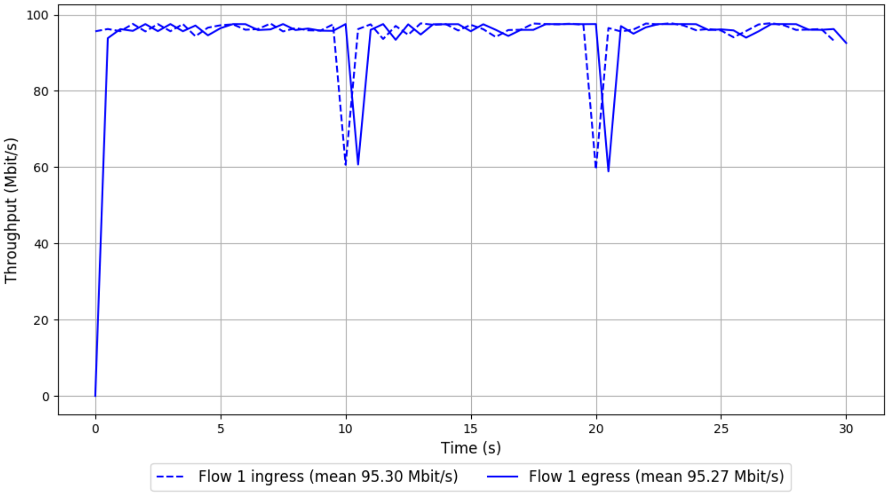
Run 3: Report of TCP BBR — Data Link

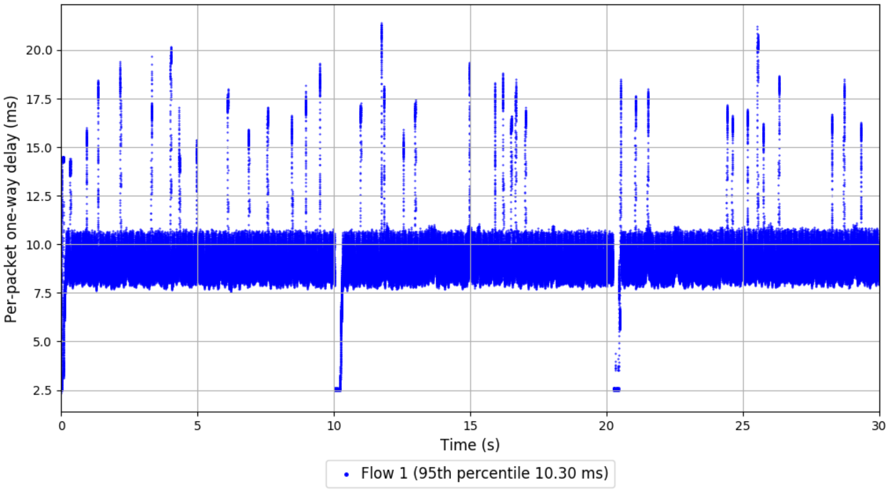




```
Run 4: Statistics of TCP BBR

Start at: 2018-08-01 17:20:21
End at: 2018-08-01 17:20:51
Local clock offset: -6.898 ms
Remote clock offset: -2.957 ms

# Below is generated by plot.py at 2018-08-01 19:31:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.27 Mbit/s
95th percentile per-packet one-way delay: 10.302 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 95.27 Mbit/s
95th percentile per-packet one-way delay: 10.302 ms
Loss rate: 0.04%
```

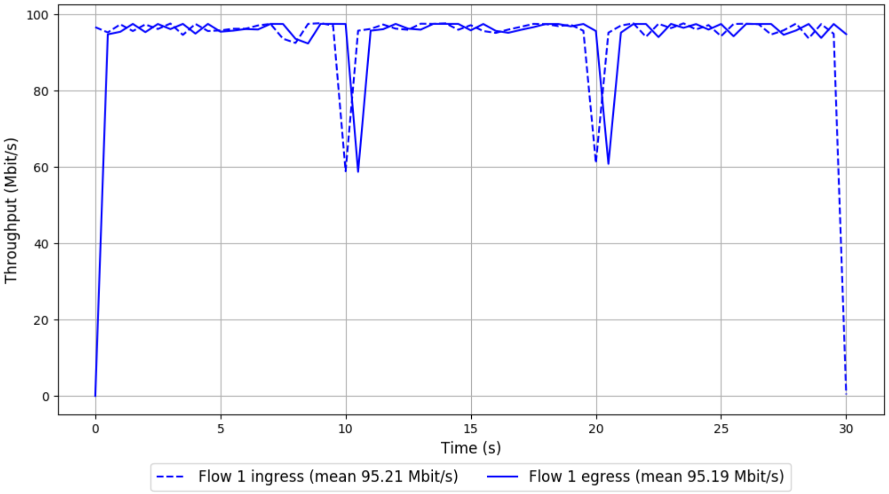
Run 4: Report of TCP BBR — Data Link

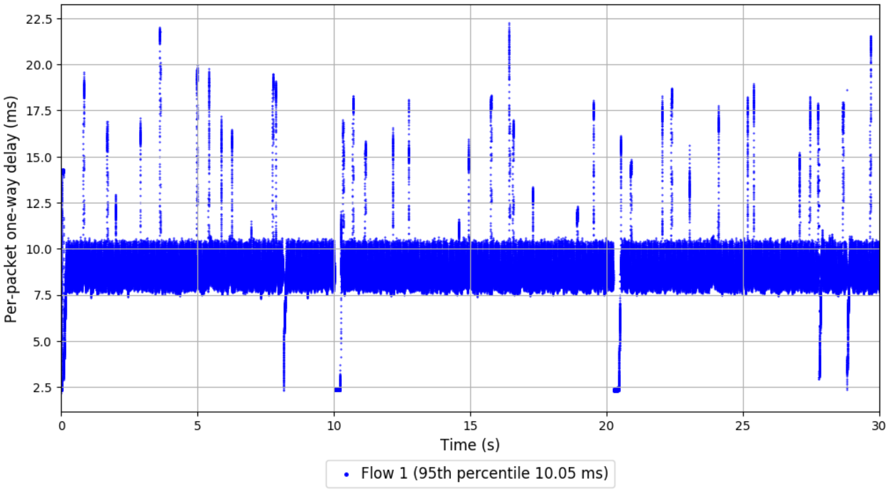




```
Run 5: Statistics of TCP BBR

Start at: 2018-08-01 17:39:23
End at: 2018-08-01 17:39:53
Local clock offset: -3.467 ms
Remote clock offset: -2.306 ms

# Below is generated by plot.py at 2018-08-01 19:31:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.19 Mbit/s
95th percentile per-packet one-way delay: 10.053 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 95.19 Mbit/s
95th percentile per-packet one-way delay: 10.053 ms
Loss rate: 0.04%
```

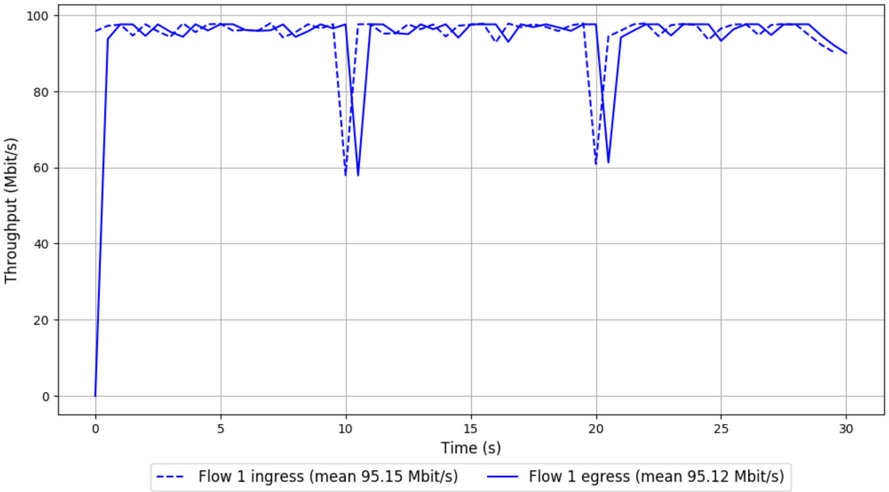
Run 5: Report of TCP BBR — Data Link

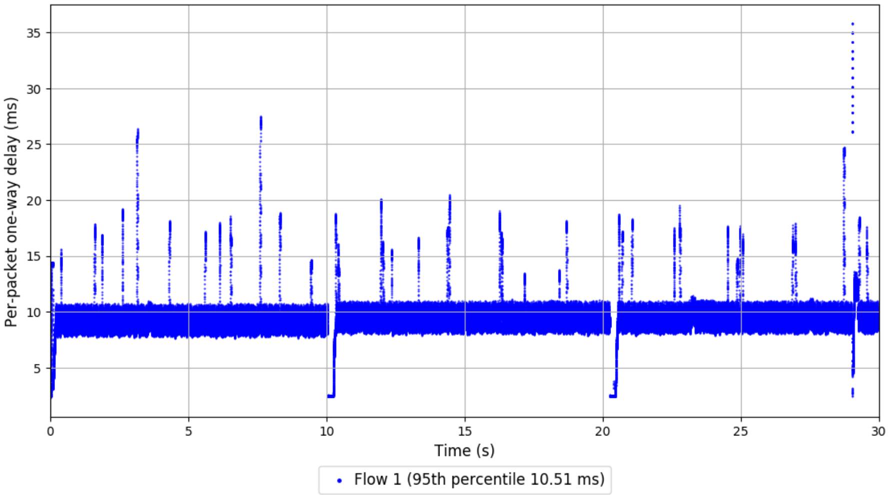




```
Run 6: Statistics of TCP BBR

Start at: 2018-08-01 17:58:25
End at: 2018-08-01 17:58:55
Local clock offset: -3.008 ms
Remote clock offset: -1.737 ms

# Below is generated by plot.py at 2018-08-01 19:31:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.12 Mbit/s
95th percentile per-packet one-way delay: 10.506 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 95.12 Mbit/s
95th percentile per-packet one-way delay: 10.506 ms
Loss rate: 0.04%
```

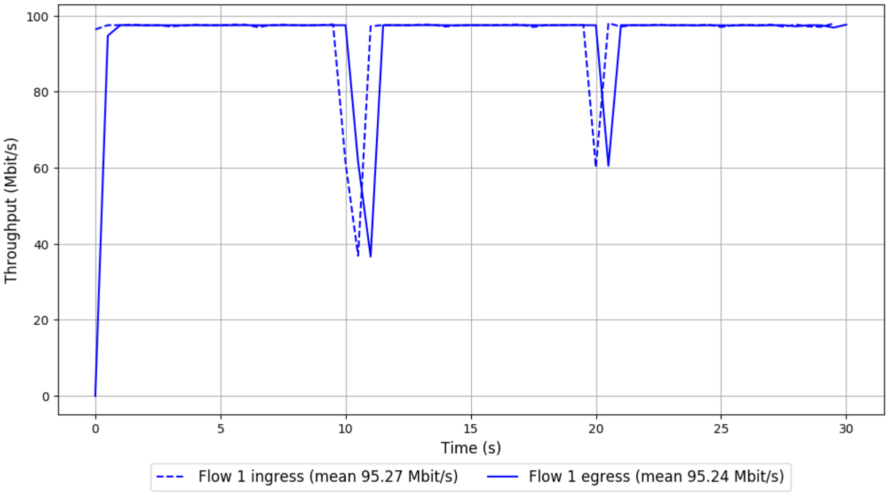
Run 6: Report of TCP BBR — Data Link

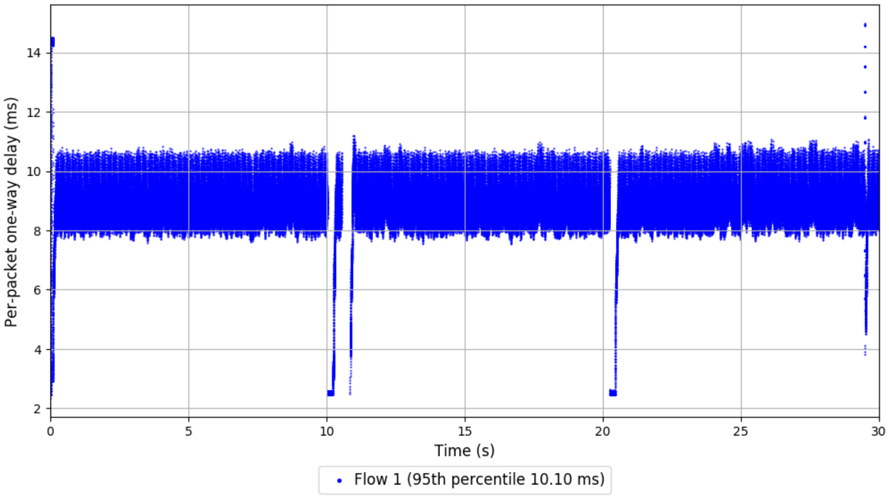




```
Run 7: Statistics of TCP BBR

Start at: 2018-08-01 18:17:27
End at: 2018-08-01 18:17:57
Local clock offset: -3.159 ms
Remote clock offset: -3.053 ms

# Below is generated by plot.py at 2018-08-01 19:31:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.24 Mbit/s
95th percentile per-packet one-way delay: 10.097 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 95.24 Mbit/s
95th percentile per-packet one-way delay: 10.097 ms
Loss rate: 0.04%
```

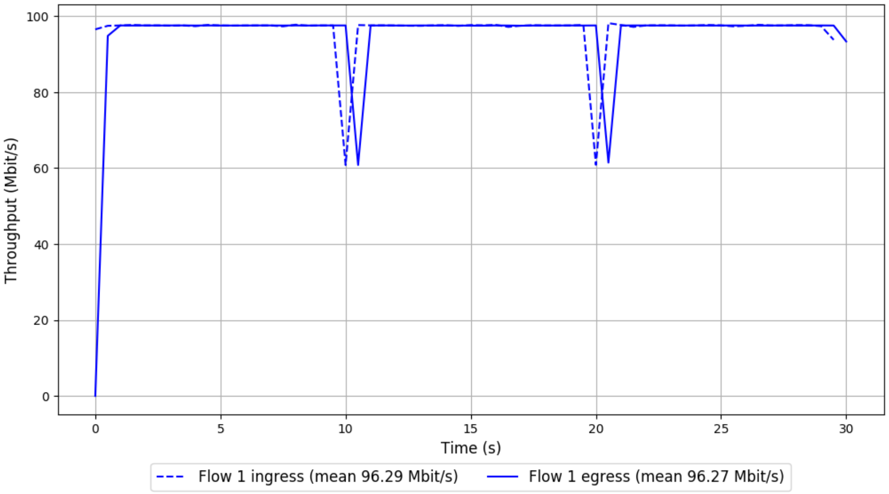
Run 7: Report of TCP BBR — Data Link

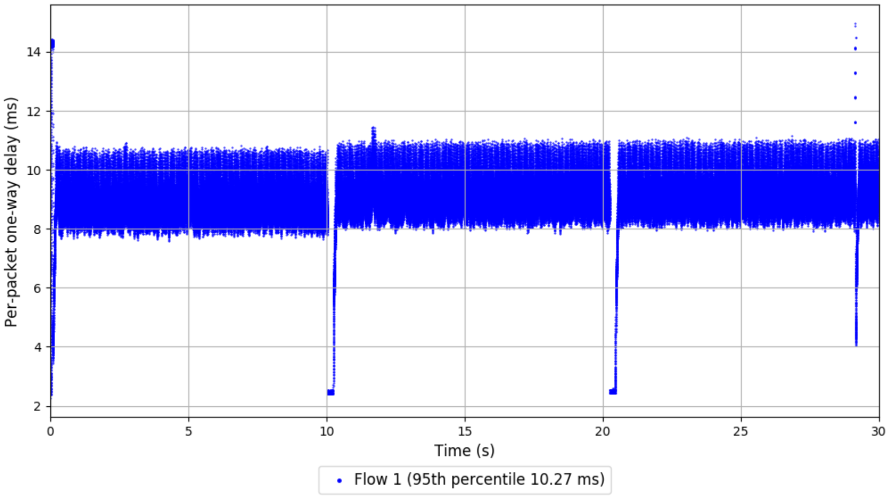




```
Run 8: Statistics of TCP BBR

Start at: 2018-08-01 18:36:29
End at: 2018-08-01 18:36:59
Local clock offset: -2.88 ms
Remote clock offset: -2.938 ms

# Below is generated by plot.py at 2018-08-01 19:31:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 10.266 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 10.266 ms
Loss rate: 0.04%
```

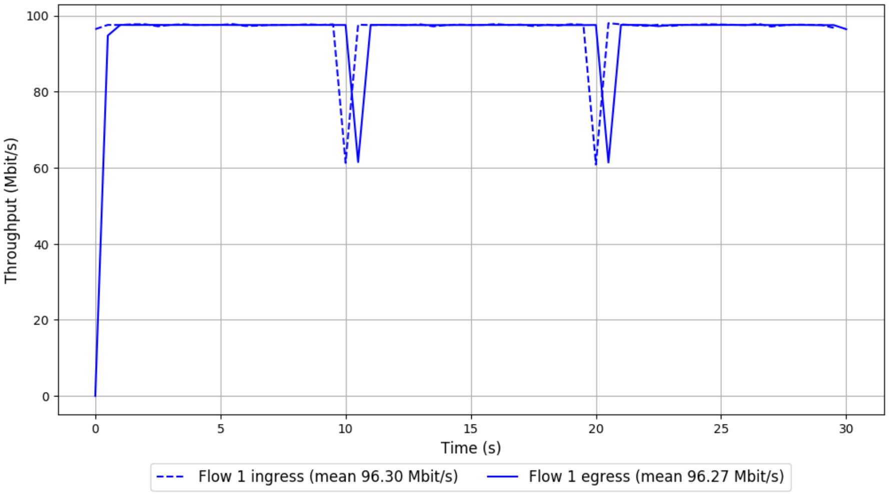
Run 8: Report of TCP BBR — Data Link

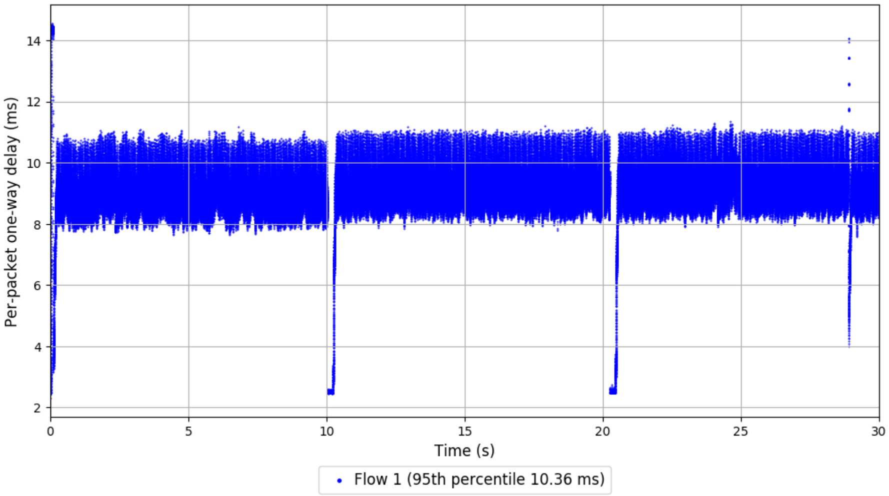




```
Run 9: Statistics of TCP BBR

Start at: 2018-08-01 18:55:32
End at: 2018-08-01 18:56:02
Local clock offset: -2.859 ms
Remote clock offset: -1.549 ms

# Below is generated by plot.py at 2018-08-01 19:32:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 10.356 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 10.356 ms
Loss rate: 0.05%
```

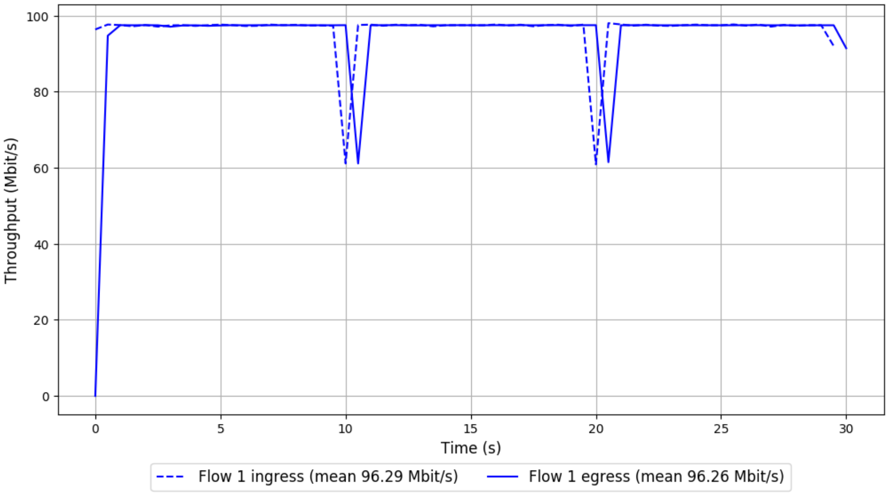
Run 9: Report of TCP BBR — Data Link

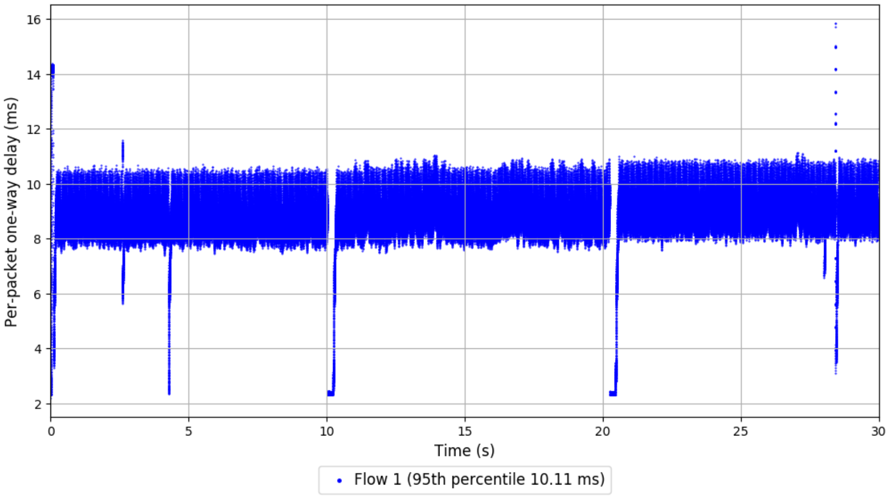




```
Run 10: Statistics of TCP BBR

Start at: 2018-08-01 19:14:35
End at: 2018-08-01 19:15:05
Local clock offset: -3.427 ms
Remote clock offset: -1.42 ms

# Below is generated by plot.py at 2018-08-01 19:32:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.26 Mbit/s
95th percentile per-packet one-way delay: 10.108 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 96.26 Mbit/s
95th percentile per-packet one-way delay: 10.108 ms
Loss rate: 0.04%
```

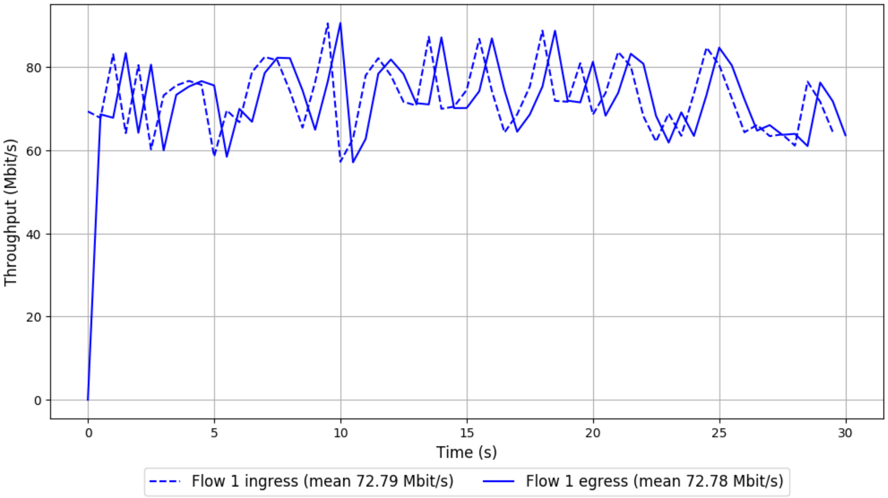
Run 10: Report of TCP BBR — Data Link

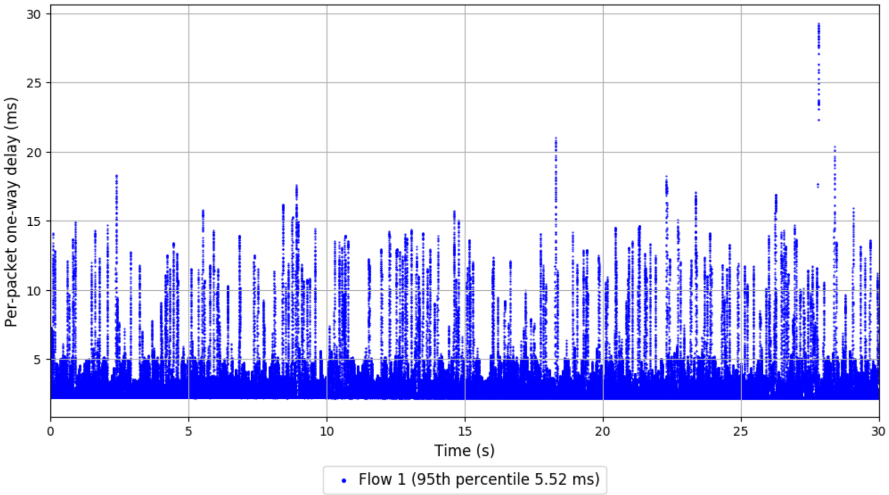




```
Run 1: Statistics of Copa

Start at: 2018-08-01 16:35:41
End at: 2018-08-01 16:36:11
Local clock offset: -3.646 ms
Remote clock offset: -1.913 ms

# Below is generated by plot.py at 2018-08-01 19:33:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.78 Mbit/s
95th percentile per-packet one-way delay: 5.523 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 72.78 Mbit/s
95th percentile per-packet one-way delay: 5.523 ms
Loss rate: 0.02%
```

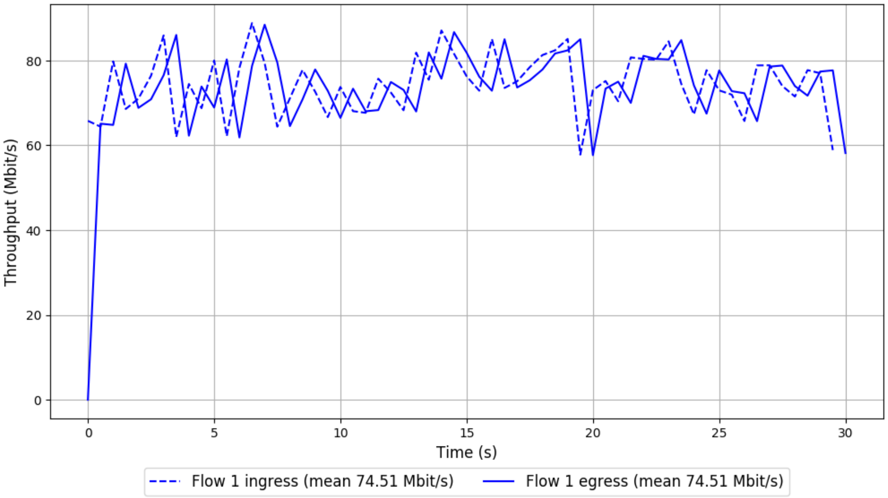
Run 1: Report of Copa — Data Link

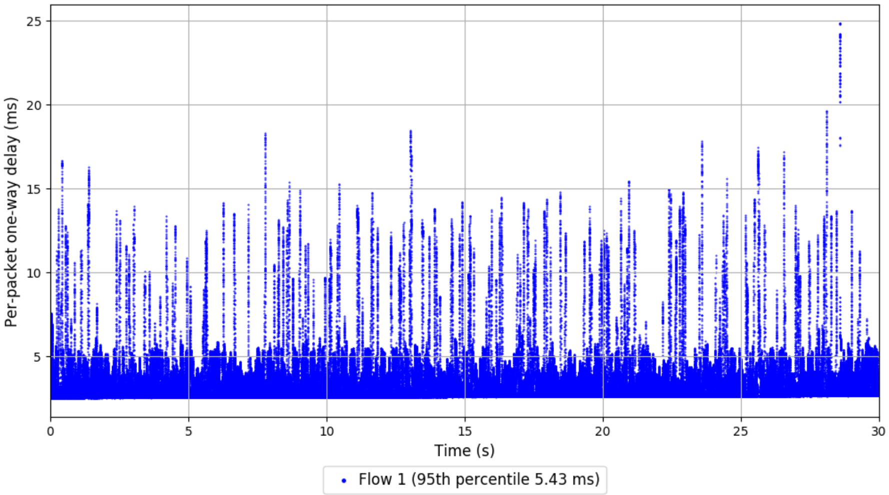




```
Run 2: Statistics of Copa

Start at: 2018-08-01 16:54:37
End at: 2018-08-01 16:55:07
Local clock offset: -3.396 ms
Remote clock offset: -1.994 ms

# Below is generated by plot.py at 2018-08-01 19:33:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.51 Mbit/s
95th percentile per-packet one-way delay: 5.426 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 74.51 Mbit/s
95th percentile per-packet one-way delay: 5.426 ms
Loss rate: 0.02%
```

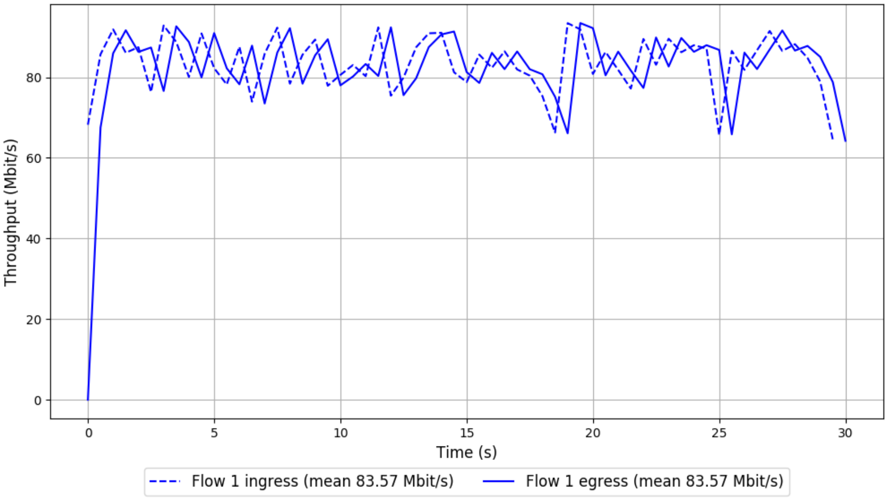
Run 2: Report of Copa — Data Link

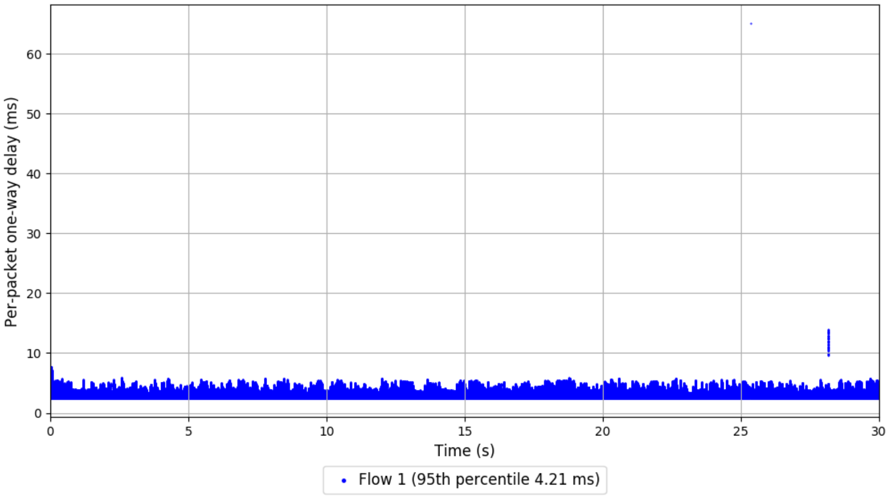




```
Run 3: Statistics of Copa

Start at: 2018-08-01 17:13:35
End at: 2018-08-01 17:14:05
Local clock offset: -6.62 ms
Remote clock offset: -2.915 ms

# Below is generated by plot.py at 2018-08-01 19:33:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.57 Mbit/s
95th percentile per-packet one-way delay: 4.215 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 83.57 Mbit/s
95th percentile per-packet one-way delay: 4.215 ms
Loss rate: 0.02%
```

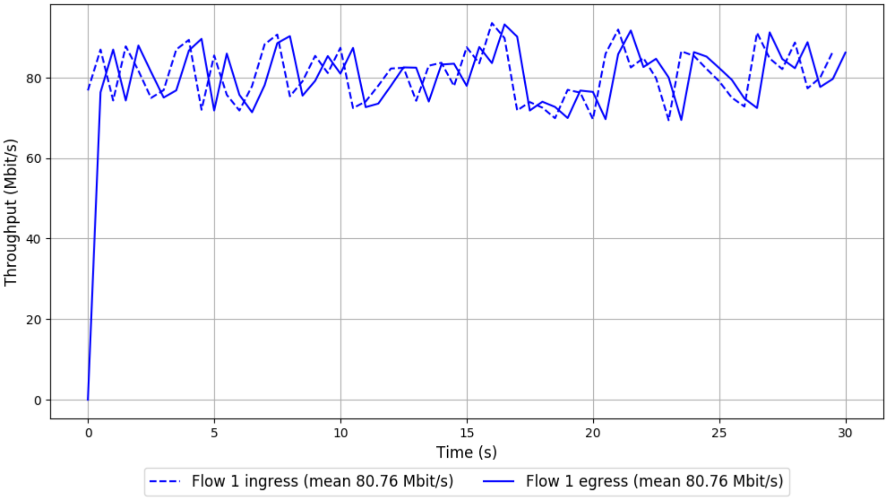
Run 3: Report of Copa — Data Link

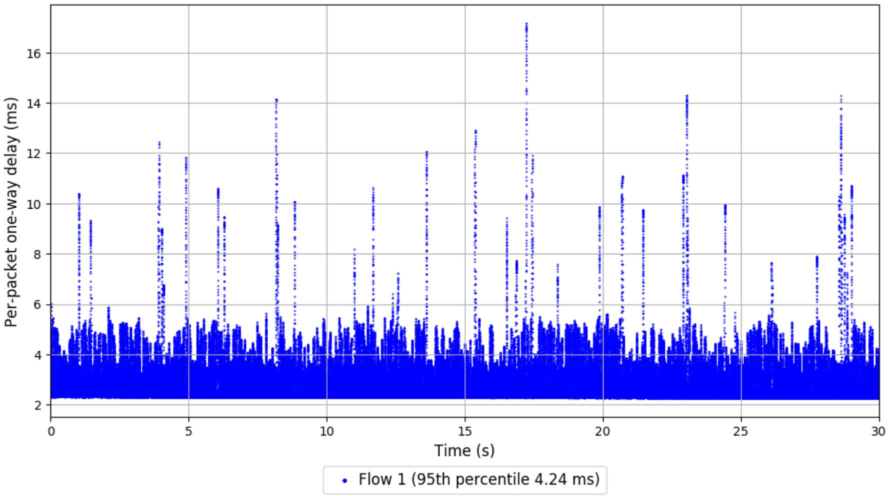




```
Run 4: Statistics of Copa

Start at: 2018-08-01 17:32:37
End at: 2018-08-01 17:33:07
Local clock offset: -4.19 ms
Remote clock offset: -2.506 ms

# Below is generated by plot.py at 2018-08-01 19:33:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.76 Mbit/s
95th percentile per-packet one-way delay: 4.235 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 80.76 Mbit/s
95th percentile per-packet one-way delay: 4.235 ms
Loss rate: 0.01%
```

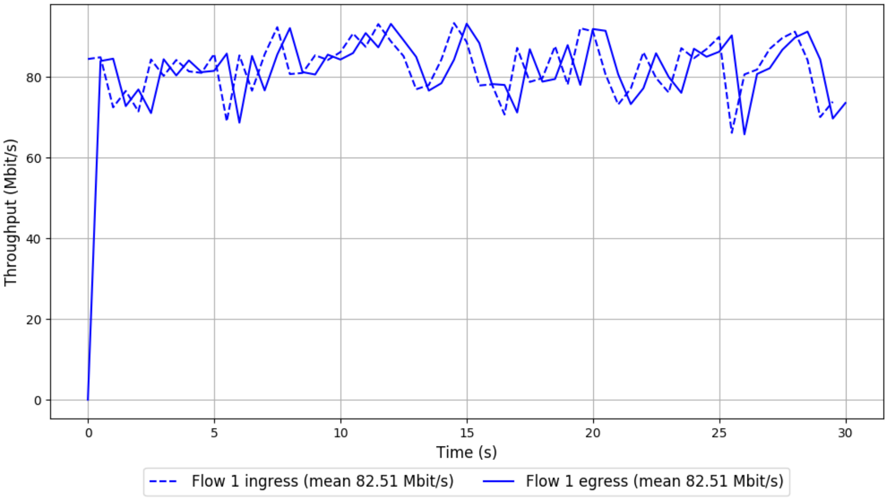
Run 4: Report of Copa — Data Link

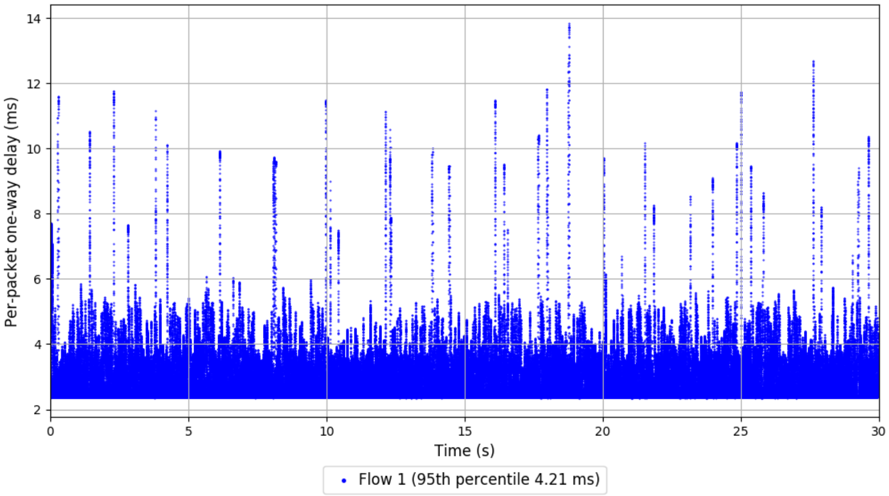




```
Run 5: Statistics of Copa

Start at: 2018-08-01 17:51:38
End at: 2018-08-01 17:52:08
Local clock offset: -2.583 ms
Remote clock offset: -1.928 ms

# Below is generated by plot.py at 2018-08-01 19:33:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.51 Mbit/s
95th percentile per-packet one-way delay: 4.206 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 82.51 Mbit/s
95th percentile per-packet one-way delay: 4.206 ms
Loss rate: 0.02%
```

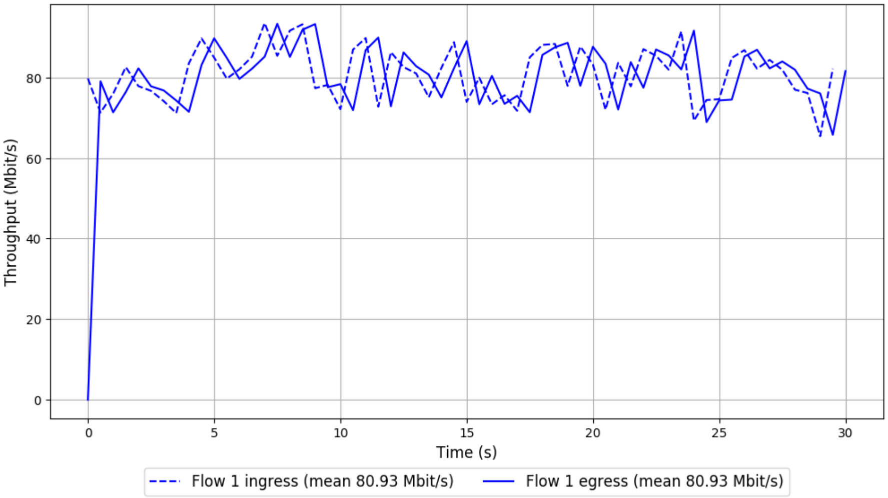
Run 5: Report of Copa — Data Link

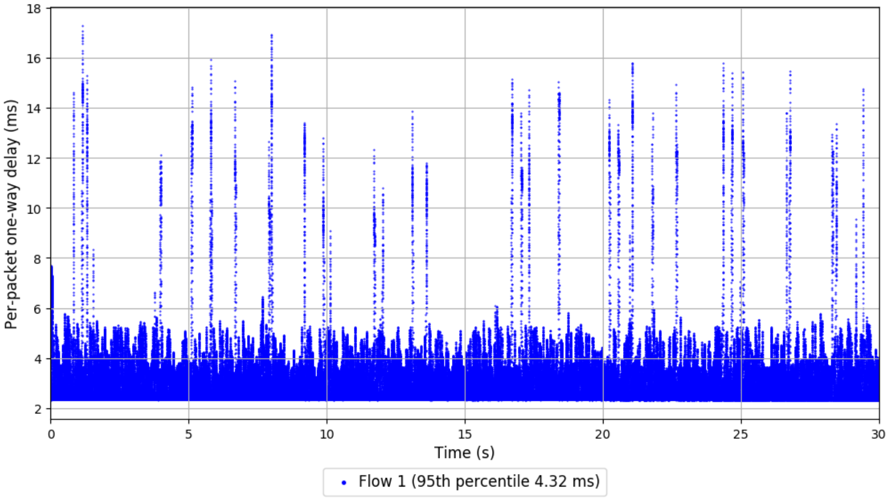




```
Run 6: Statistics of Copa

Start at: 2018-08-01 18:10:40
End at: 2018-08-01 18:11:10
Local clock offset: -3.197 ms
Remote clock offset: -2.69 ms

# Below is generated by plot.py at 2018-08-01 19:33:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.93 Mbit/s
95th percentile per-packet one-way delay: 4.323 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 80.93 Mbit/s
95th percentile per-packet one-way delay: 4.323 ms
Loss rate: 0.02%
```

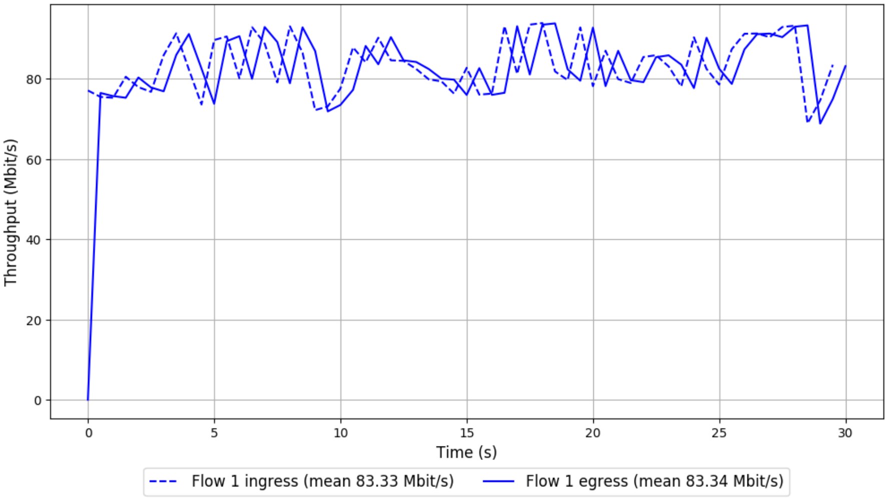
Run 6: Report of Copa — Data Link

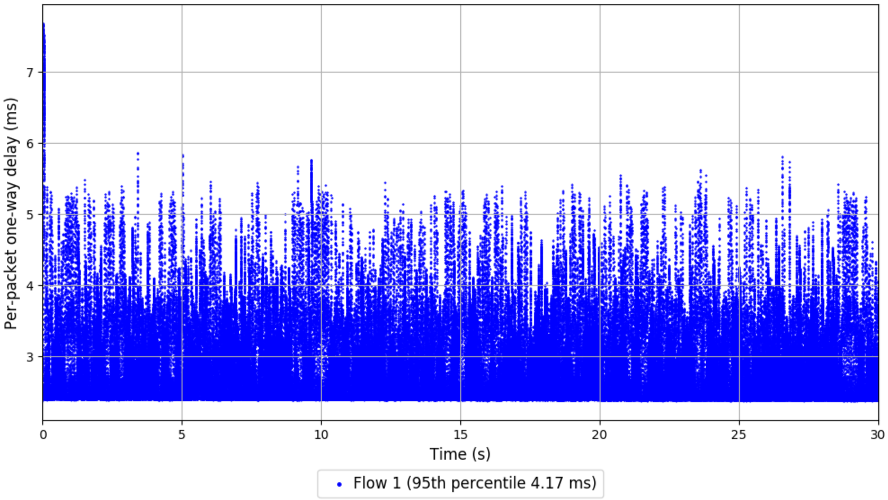




```
Run 7: Statistics of Copa

Start at: 2018-08-01 18:29:42
End at: 2018-08-01 18:30:12
Local clock offset: -3.013 ms
Remote clock offset: -3.213 ms

# Below is generated by plot.py at 2018-08-01 19:34:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.34 Mbit/s
95th percentile per-packet one-way delay: 4.172 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 83.34 Mbit/s
95th percentile per-packet one-way delay: 4.172 ms
Loss rate: 0.01%
```

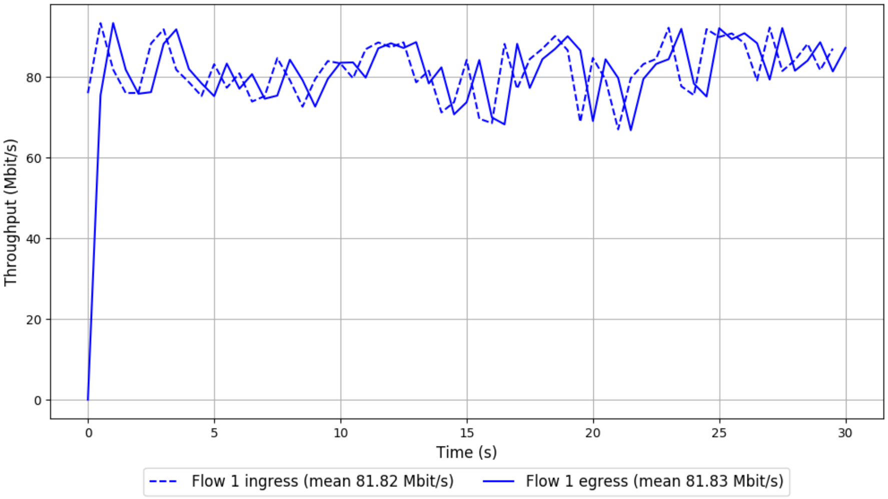
Run 7: Report of Copa — Data Link

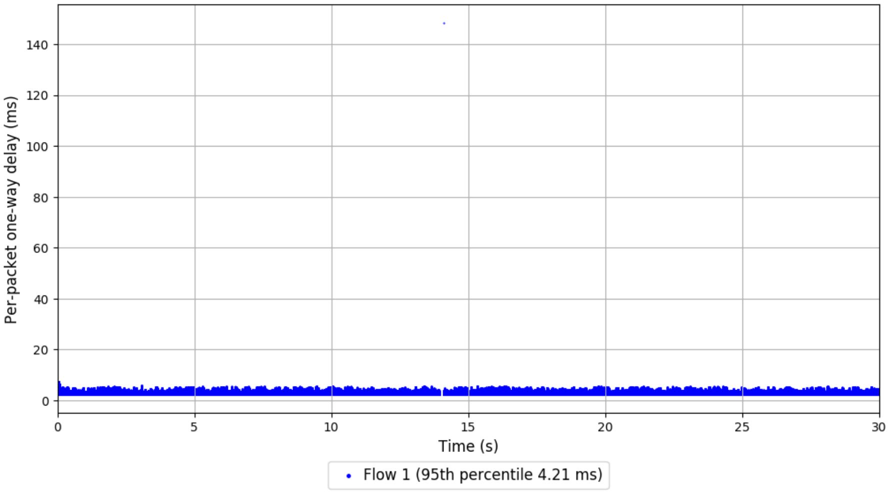




```
Run 8: Statistics of Copa

Start at: 2018-08-01 18:48:45
End at: 2018-08-01 18:49:15
Local clock offset: -2.553 ms
Remote clock offset: -1.744 ms

# Below is generated by plot.py at 2018-08-01 19:34:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.83 Mbit/s
95th percentile per-packet one-way delay: 4.207 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 81.83 Mbit/s
95th percentile per-packet one-way delay: 4.207 ms
Loss rate: 0.01%
```

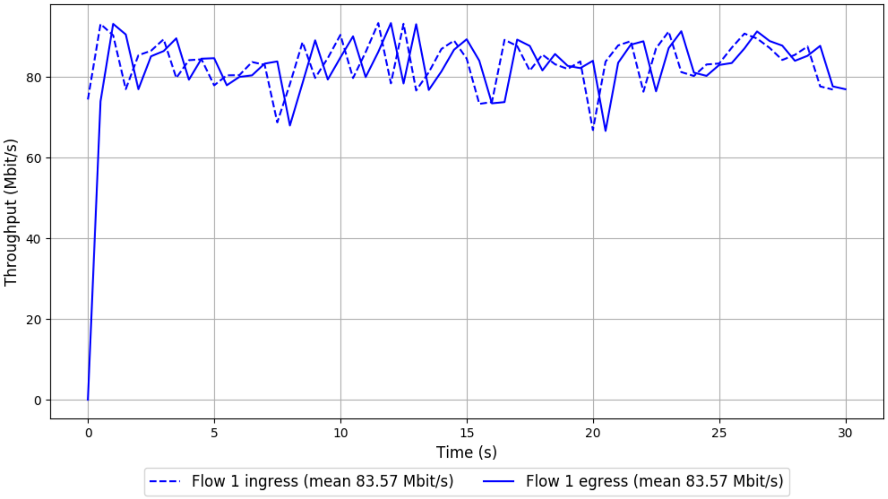
Run 8: Report of Copa — Data Link

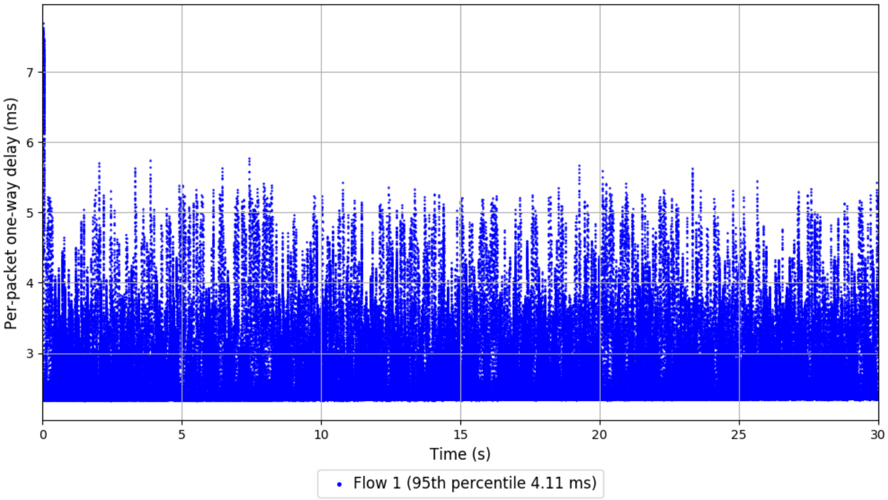




```
Run 9: Statistics of Copa

Start at: 2018-08-01 19:07:48
End at: 2018-08-01 19:08:18
Local clock offset: -3.344 ms
Remote clock offset: -1.063 ms

# Below is generated by plot.py at 2018-08-01 19:35:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.57 Mbit/s
95th percentile per-packet one-way delay: 4.114 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 83.57 Mbit/s
95th percentile per-packet one-way delay: 4.114 ms
Loss rate: 0.01%
```

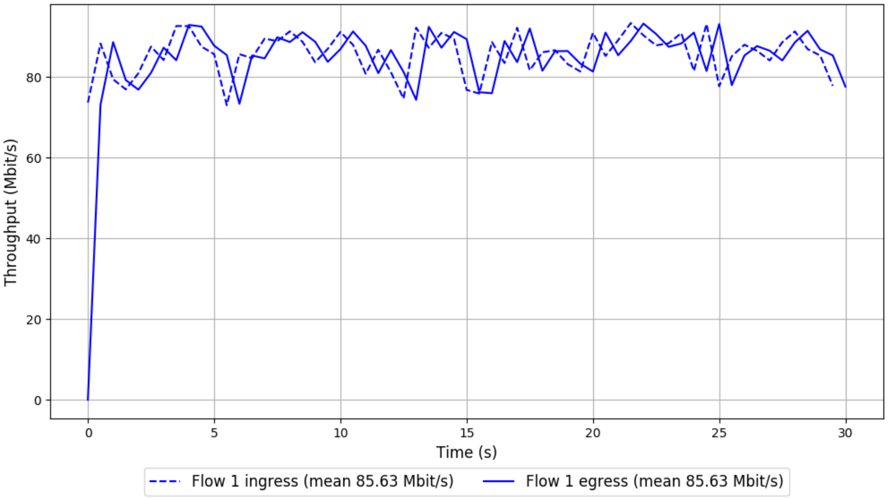
Run 9: Report of Copa — Data Link

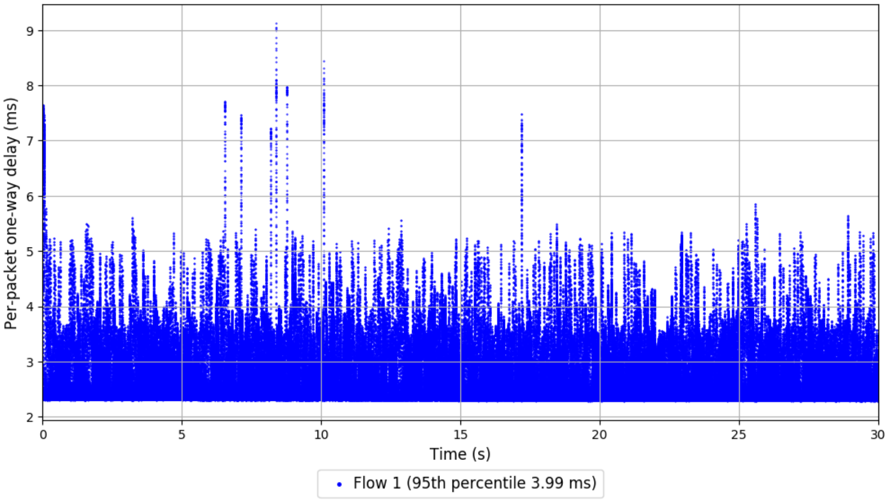




```
Run 10: Statistics of Copa

Start at: 2018-08-01 19:26:50
End at: 2018-08-01 19:27:20
Local clock offset: -3.156 ms
Remote clock offset: -1.596 ms

# Below is generated by plot.py at 2018-08-01 19:35:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.63 Mbit/s
95th percentile per-packet one-way delay: 3.988 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 85.63 Mbit/s
95th percentile per-packet one-way delay: 3.988 ms
Loss rate: 0.01%
```

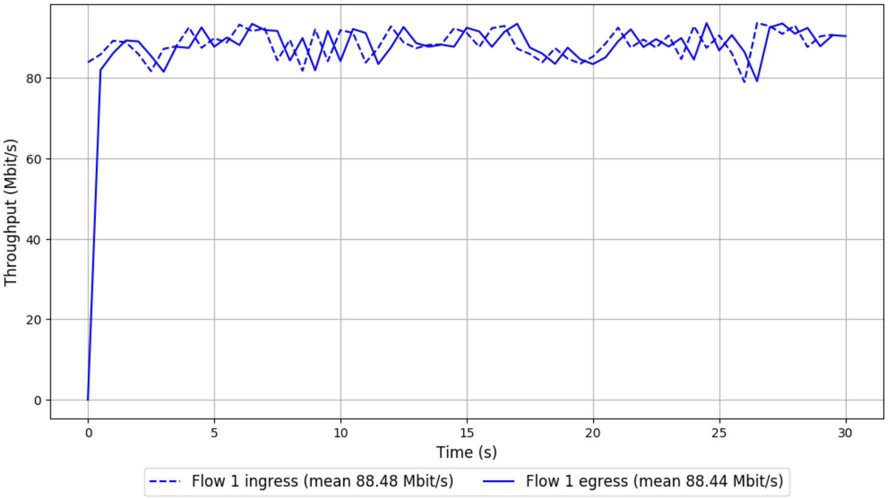
Run 10: Report of Copa — Data Link

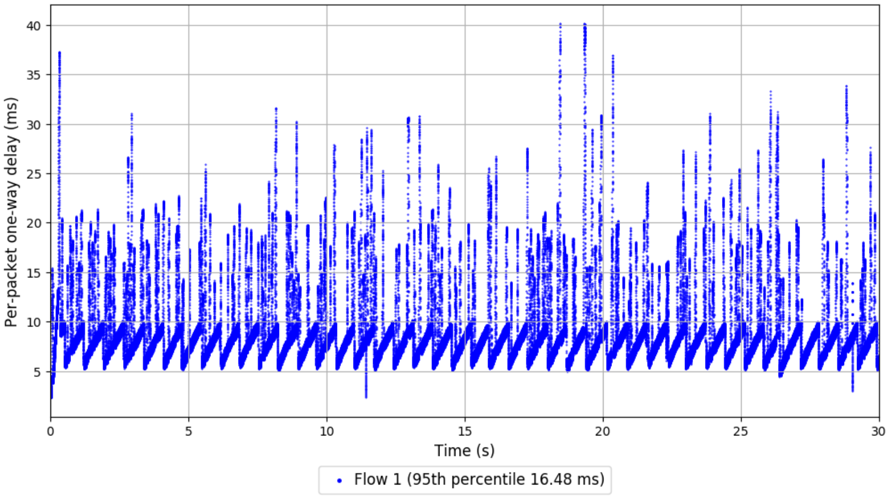




```
Run 1: Statistics of TCP Cubic

Start at: 2018-08-01 16:33:26
End at: 2018-08-01 16:33:56
Local clock offset: -3.824 ms
Remote clock offset: -2.018 ms

# Below is generated by plot.py at 2018-08-01 19:35:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.44 Mbit/s
95th percentile per-packet one-way delay: 16.475 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 88.44 Mbit/s
95th percentile per-packet one-way delay: 16.475 ms
Loss rate: 0.05%
```

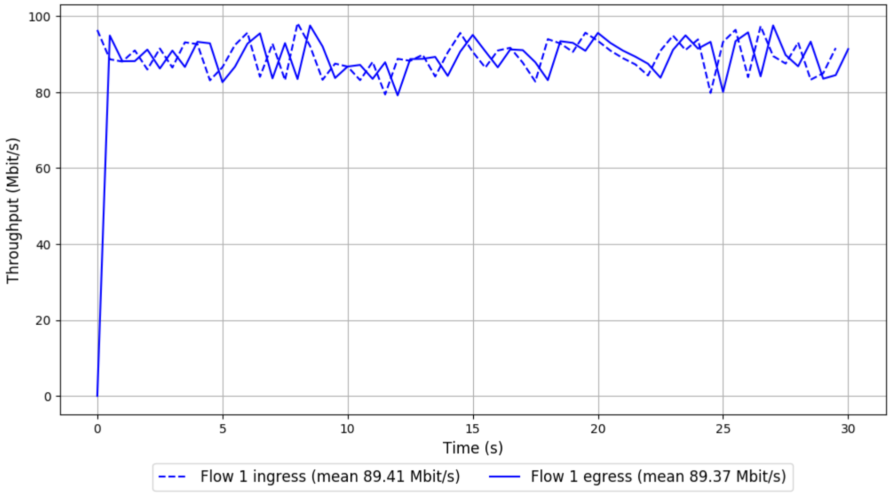
Run 1: Report of TCP Cubic — Data Link

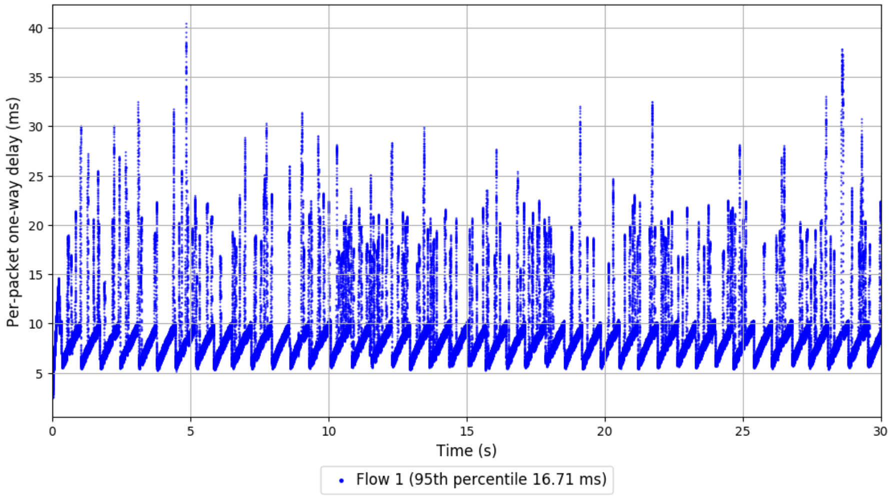




```
Run 2: Statistics of TCP Cubic

Start at: 2018-08-01 16:52:22
End at: 2018-08-01 16:52:52
Local clock offset: -2.37 ms
Remote clock offset: -1.631 ms

# Below is generated by plot.py at 2018-08-01 19:35:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.37 Mbit/s
95th percentile per-packet one-way delay: 16.711 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 89.37 Mbit/s
95th percentile per-packet one-way delay: 16.711 ms
Loss rate: 0.06%
```

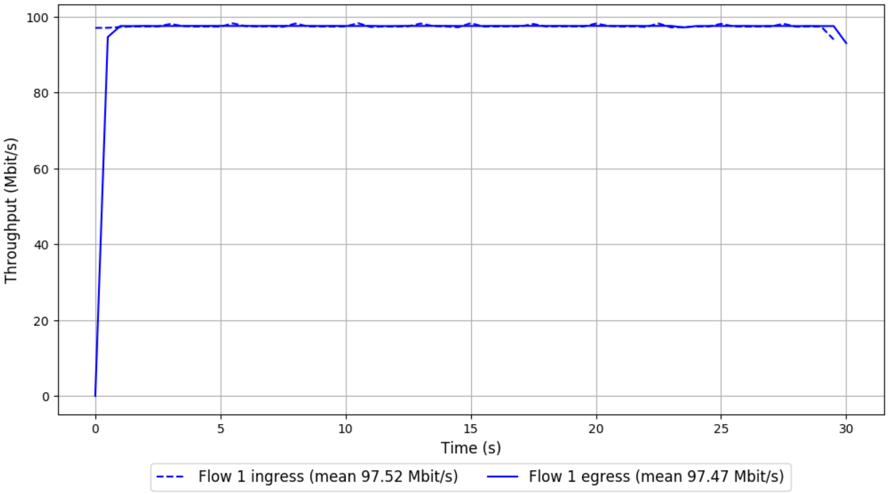
Run 2: Report of TCP Cubic — Data Link

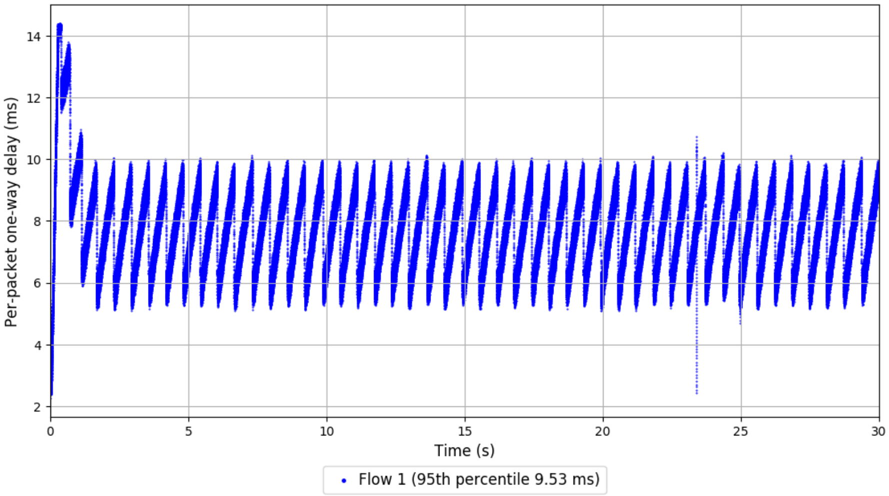




```
Run 3: Statistics of TCP Cubic

Start at: 2018-08-01 17:11:19
End at: 2018-08-01 17:11:49
Local clock offset: -6.466 ms
Remote clock offset: -2.793 ms

# Below is generated by plot.py at 2018-08-01 19:35:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 9.530 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 9.530 ms
Loss rate: 0.06%
```

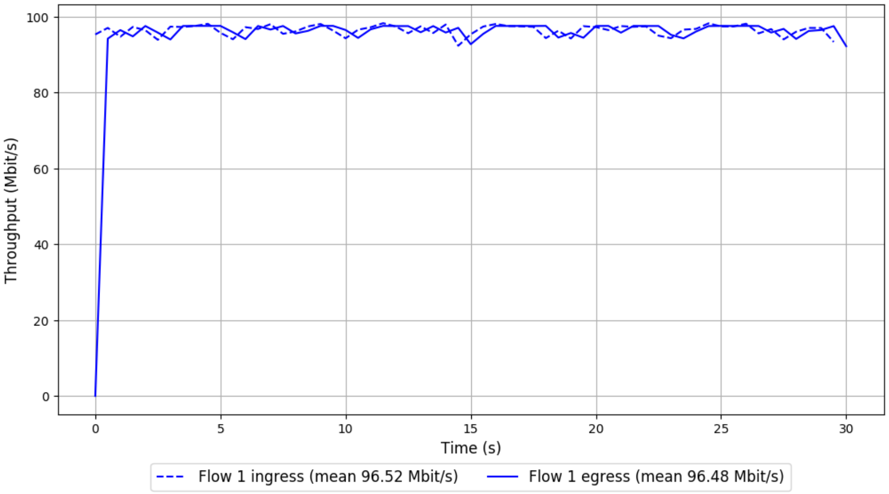
Run 3: Report of TCP Cubic — Data Link

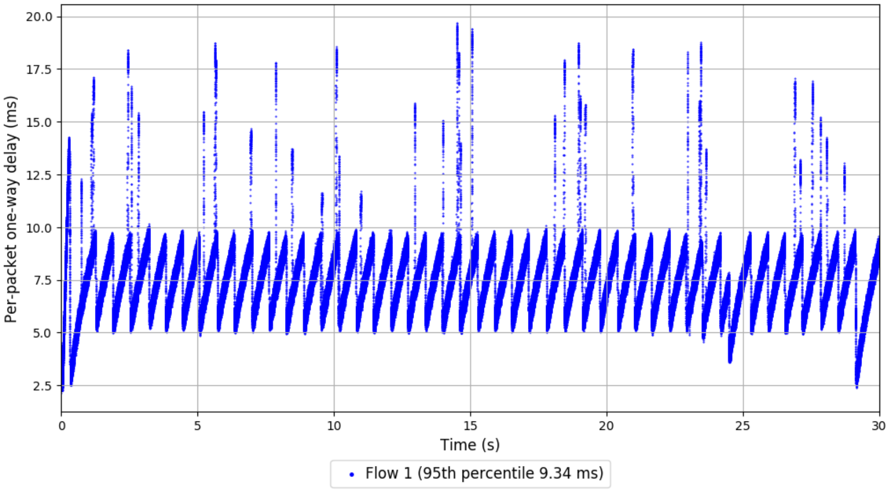




```
Run 4: Statistics of TCP Cubic

Start at: 2018-08-01 17:30:21
End at: 2018-08-01 17:30:51
Local clock offset: -4.606 ms
Remote clock offset: -2.585 ms

# Below is generated by plot.py at 2018-08-01 19:35:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.48 Mbit/s
95th percentile per-packet one-way delay: 9.335 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 96.48 Mbit/s
95th percentile per-packet one-way delay: 9.335 ms
Loss rate: 0.06%
```

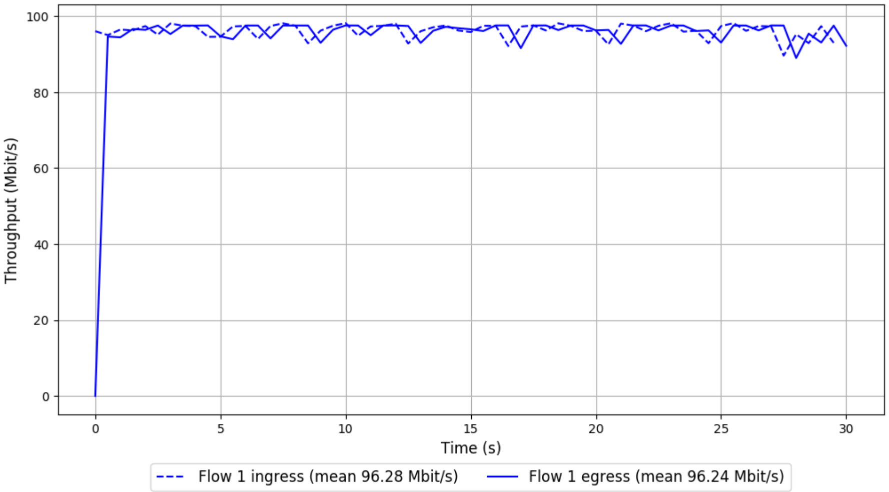
Run 4: Report of TCP Cubic — Data Link

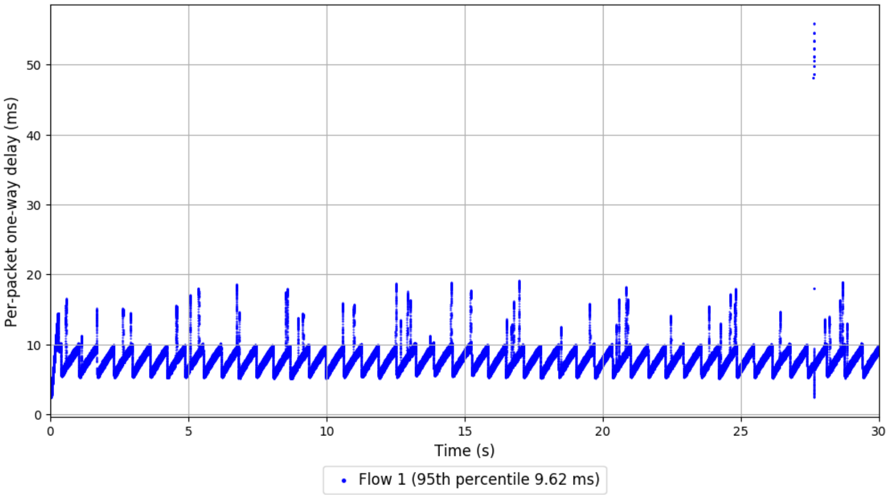




```
Run 5: Statistics of TCP Cubic

Start at: 2018-08-01 17:49:23
End at: 2018-08-01 17:49:53
Local clock offset: -2.712 ms
Remote clock offset: -2.039 ms

# Below is generated by plot.py at 2018-08-01 19:35:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.24 Mbit/s
95th percentile per-packet one-way delay: 9.620 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 96.24 Mbit/s
95th percentile per-packet one-way delay: 9.620 ms
Loss rate: 0.06%
```

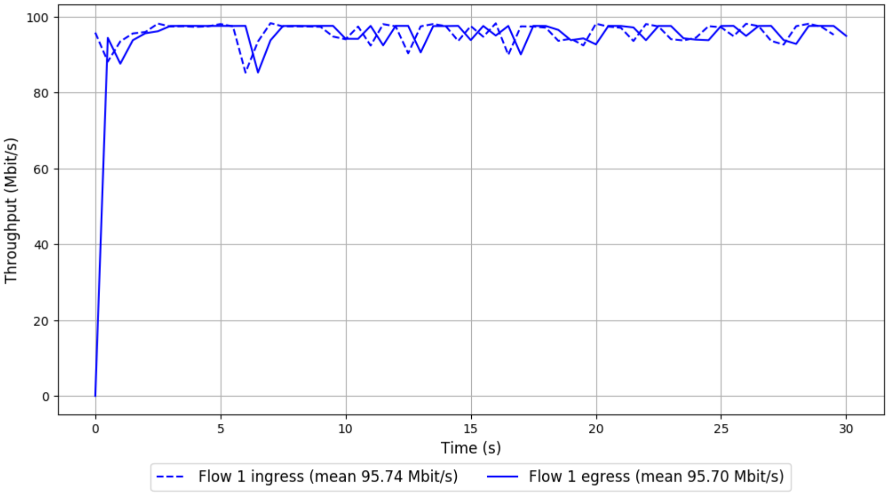
Run 5: Report of TCP Cubic — Data Link

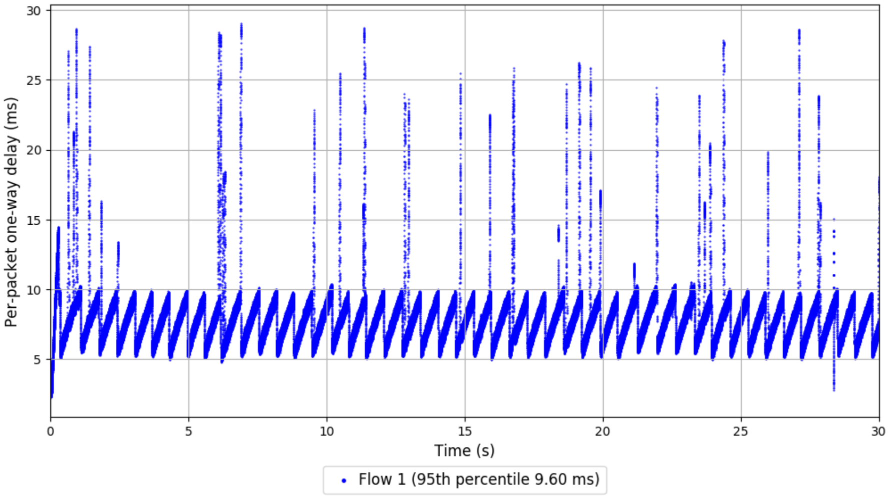




```
Run 6: Statistics of TCP Cubic

Start at: 2018-08-01 18:08:25
End at: 2018-08-01 18:08:55
Local clock offset: -3.264 ms
Remote clock offset: -2.62 ms

# Below is generated by plot.py at 2018-08-01 19:35:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.70 Mbit/s
95th percentile per-packet one-way delay: 9.601 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 95.70 Mbit/s
95th percentile per-packet one-way delay: 9.601 ms
Loss rate: 0.05%
```

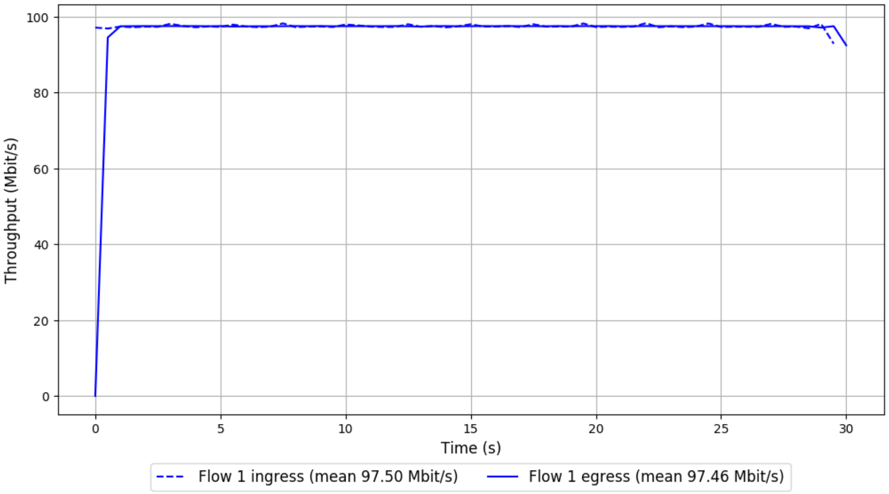
Run 6: Report of TCP Cubic — Data Link

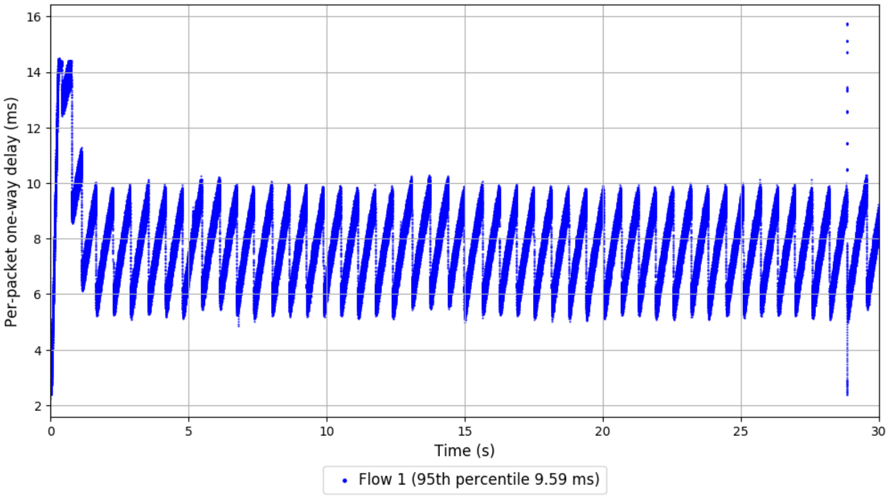




```
Run 7: Statistics of TCP Cubic

Start at: 2018-08-01 18:27:26
End at: 2018-08-01 18:27:56
Local clock offset: -3.065 ms
Remote clock offset: -3.188 ms

# Below is generated by plot.py at 2018-08-01 19:35:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 9.585 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 9.585 ms
Loss rate: 0.06%
```

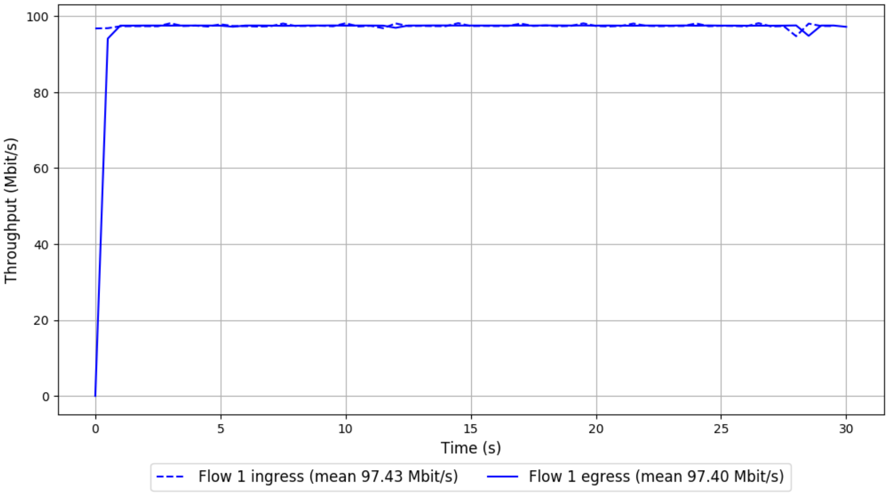
Run 7: Report of TCP Cubic — Data Link

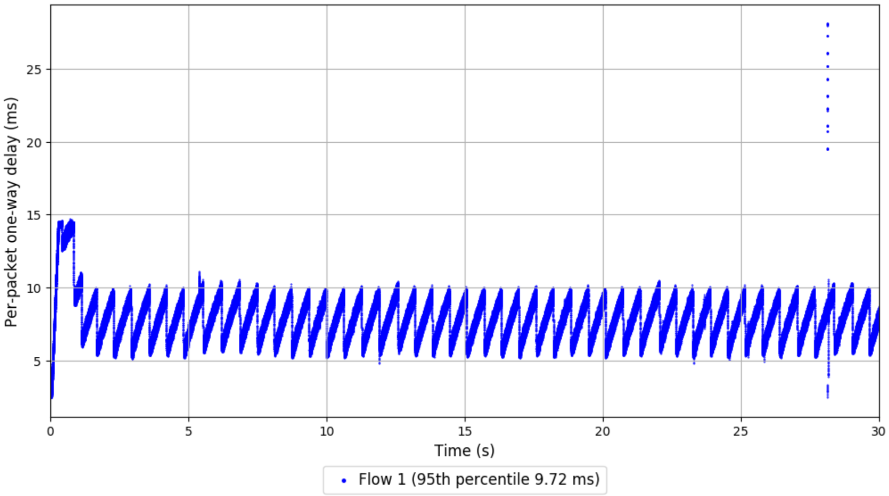




```
Run 8: Statistics of TCP Cubic

Start at: 2018-08-01 18:46:29
End at: 2018-08-01 18:46:59
Local clock offset: -2.599 ms
Remote clock offset: -1.984 ms

# Below is generated by plot.py at 2018-08-01 19:35:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.40 Mbit/s
95th percentile per-packet one-way delay: 9.725 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 97.40 Mbit/s
95th percentile per-packet one-way delay: 9.725 ms
Loss rate: 0.05%
```

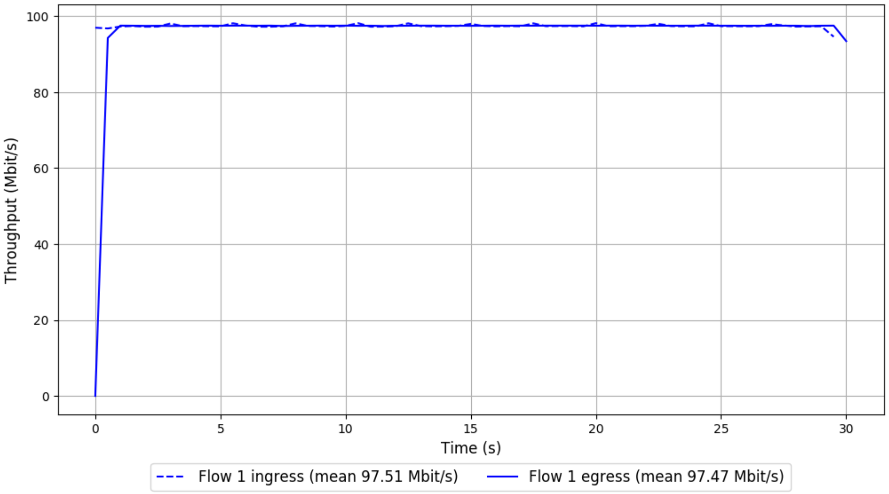
Run 8: Report of TCP Cubic — Data Link

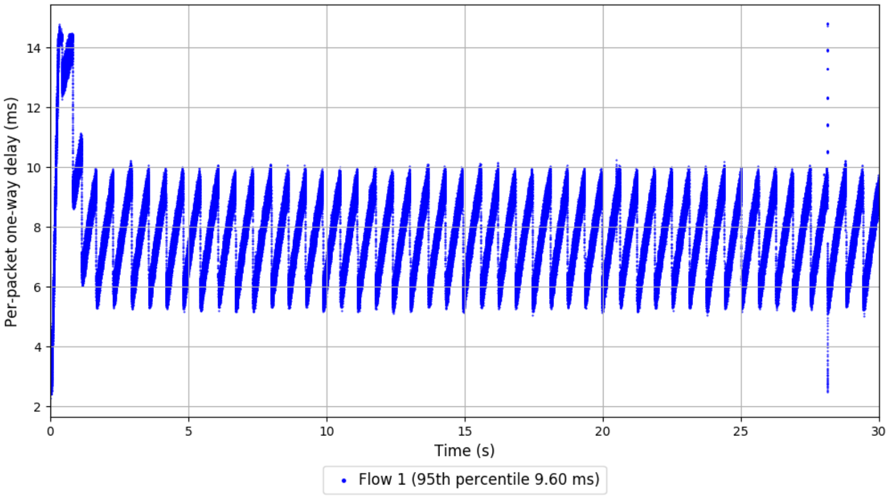




```
Run 9: Statistics of TCP Cubic

Start at: 2018-08-01 19:05:32
End at: 2018-08-01 19:06:02
Local clock offset: -3.252 ms
Remote clock offset: -1.172 ms

# Below is generated by plot.py at 2018-08-01 19:35:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 9.597 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 9.597 ms
Loss rate: 0.06%
```

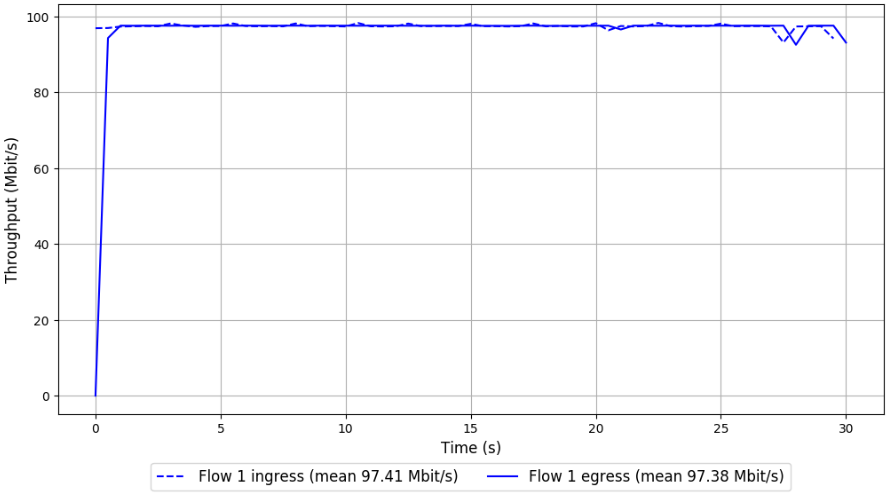
Run 9: Report of TCP Cubic — Data Link

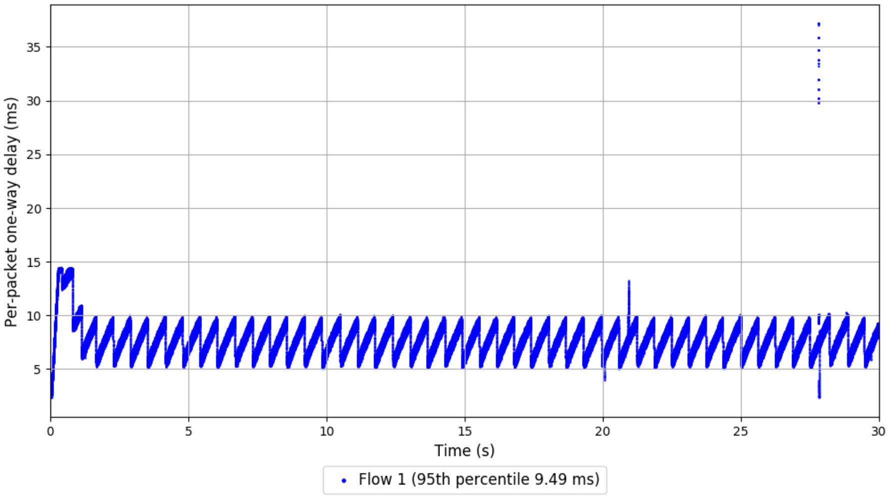




```
Run 10: Statistics of TCP Cubic

Start at: 2018-08-01 19:24:35
End at: 2018-08-01 19:25:05
Local clock offset: -3.263 ms
Remote clock offset: -1.6 ms

# Below is generated by plot.py at 2018-08-01 19:35:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.38 Mbit/s
95th percentile per-packet one-way delay: 9.491 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 97.38 Mbit/s
95th percentile per-packet one-way delay: 9.491 ms
Loss rate: 0.06%
```

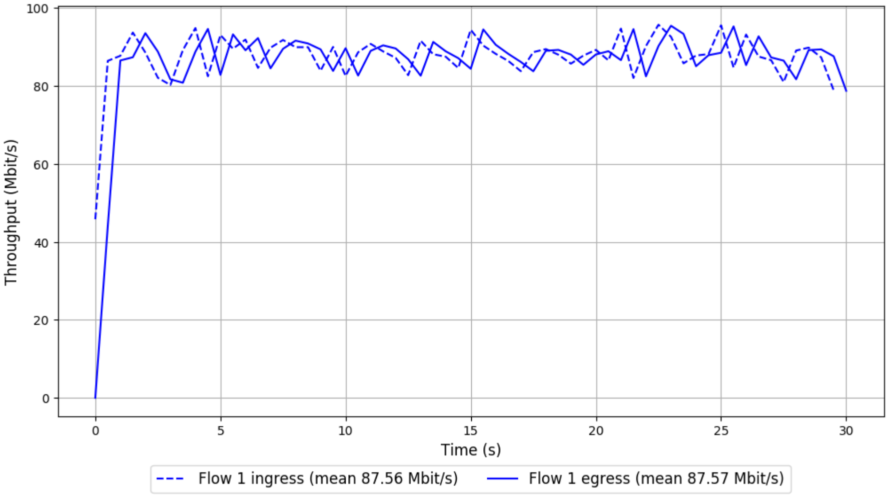
Run 10: Report of TCP Cubic — Data Link

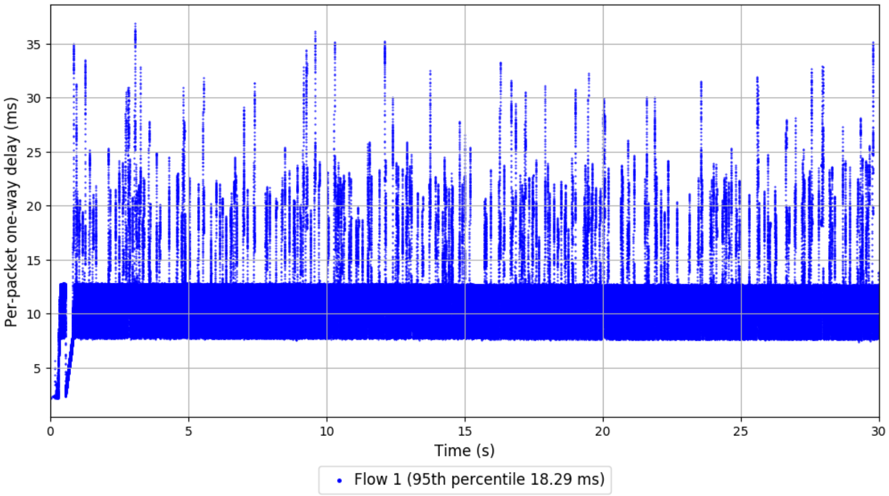




```
Run 1: Statistics of FillP

Start at: 2018-08-01 16:24:34
End at: 2018-08-01 16:25:04
Local clock offset: -5.5 ms
Remote clock offset: -1.897 ms

# Below is generated by plot.py at 2018-08-01 19:36:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.57 Mbit/s
95th percentile per-packet one-way delay: 18.292 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 87.57 Mbit/s
95th percentile per-packet one-way delay: 18.292 ms
Loss rate: 0.03%
```

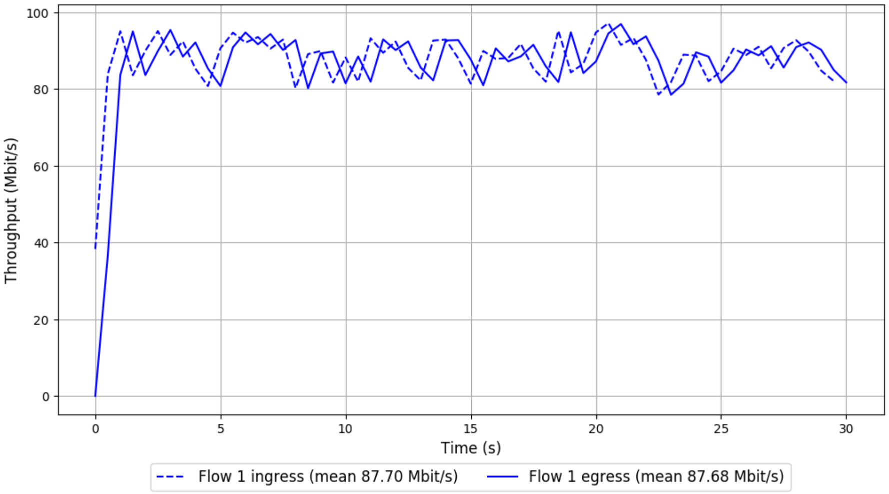
Run 1: Report of FillP — Data Link

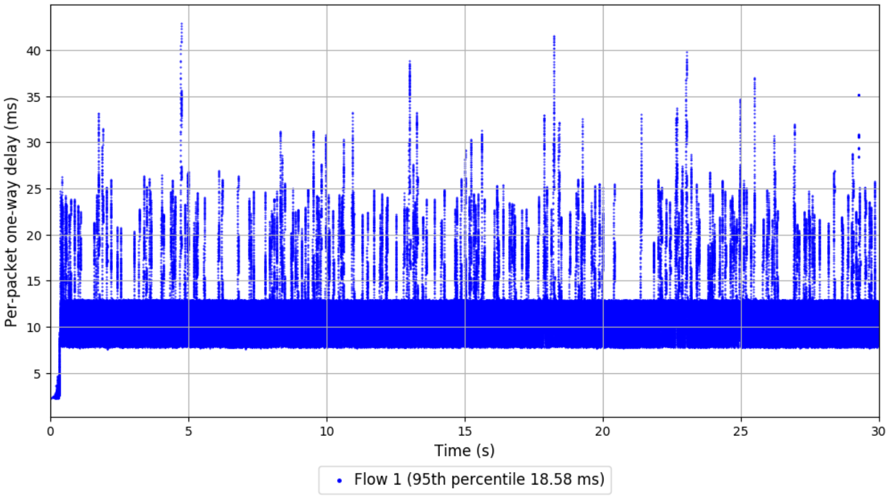




```
Run 2: Statistics of FillP

Start at: 2018-08-01 16:43:31
End at: 2018-08-01 16:44:01
Local clock offset: -2.9 ms
Remote clock offset: -1.75 ms

# Below is generated by plot.py at 2018-08-01 19:36:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.68 Mbit/s
95th percentile per-packet one-way delay: 18.582 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 87.68 Mbit/s
95th percentile per-packet one-way delay: 18.582 ms
Loss rate: 0.04%
```

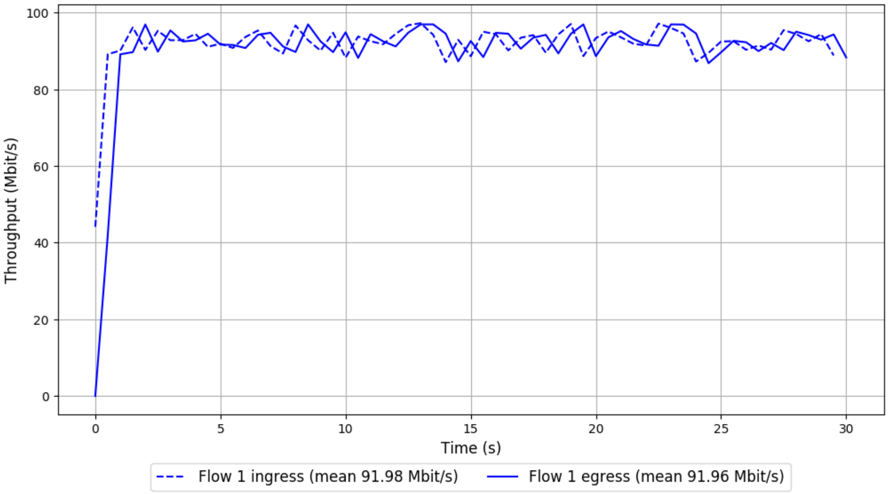
Run 2: Report of FillP — Data Link

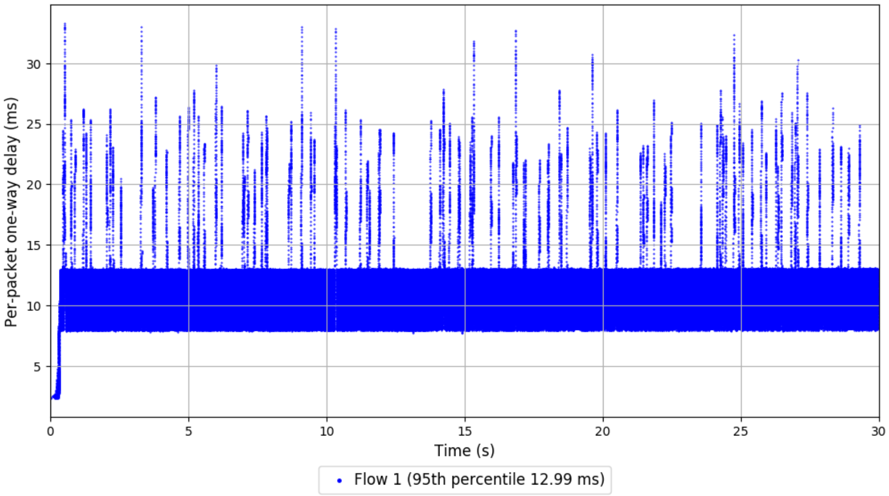




```
Run 3: Statistics of FillP

Start at: 2018-08-01 17:02:27
End at: 2018-08-01 17:02:57
Local clock offset: -5.47 ms
Remote clock offset: -2.623 ms

# Below is generated by plot.py at 2018-08-01 19:37:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.96 Mbit/s
95th percentile per-packet one-way delay: 12.993 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 91.96 Mbit/s
95th percentile per-packet one-way delay: 12.993 ms
Loss rate: 0.05%
```

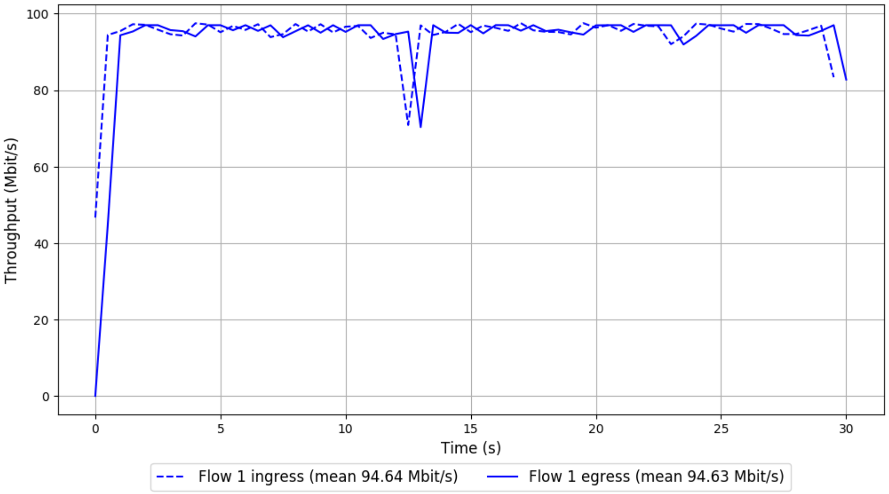
Run 3: Report of FillP — Data Link

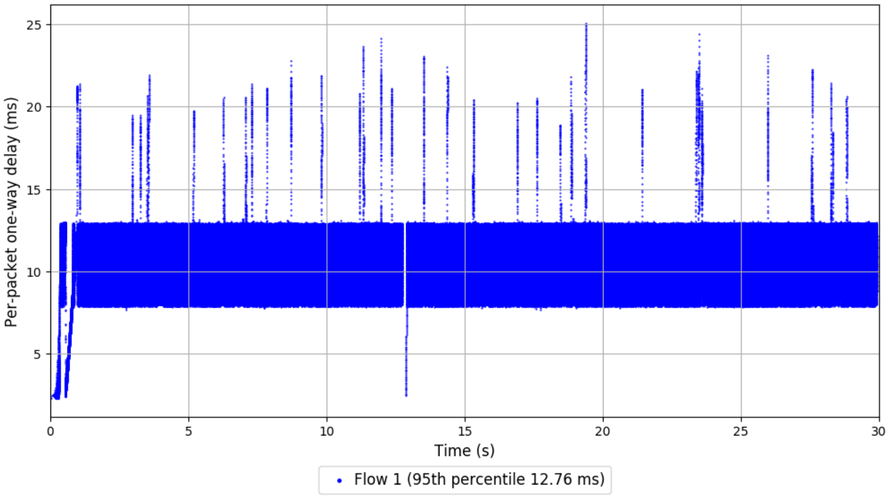




```
Run 4: Statistics of FillP

Start at: 2018-08-01 17:21:29
End at: 2018-08-01 17:21:59
Local clock offset: -6.935 ms
Remote clock offset: -2.892 ms

# Below is generated by plot.py at 2018-08-01 19:37:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.63 Mbit/s
95th percentile per-packet one-way delay: 12.758 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 94.63 Mbit/s
95th percentile per-packet one-way delay: 12.758 ms
Loss rate: 0.05%
```

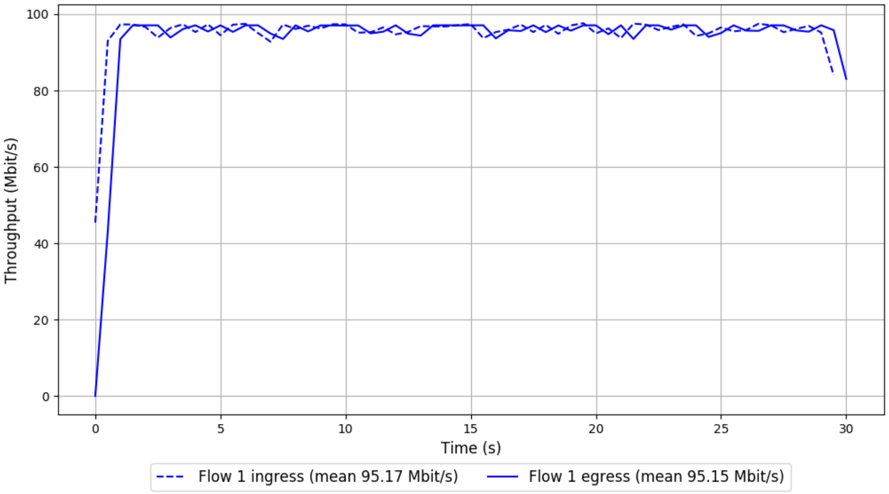
Run 4: Report of FillP — Data Link

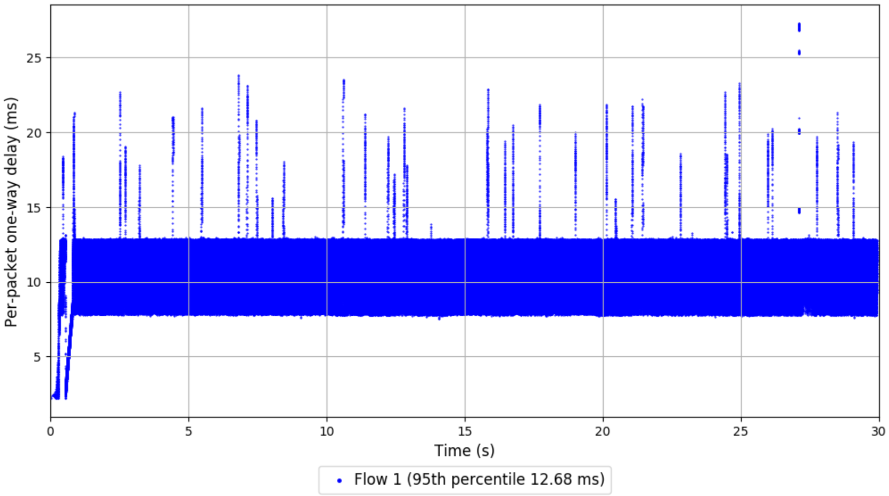




```
Run 5: Statistics of FillP

Start at: 2018-08-01 17:40:30
End at: 2018-08-01 17:41:00
Local clock offset: -3.28 ms
Remote clock offset: -2.246 ms

# Below is generated by plot.py at 2018-08-01 19:37:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.15 Mbit/s
95th percentile per-packet one-way delay: 12.677 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 95.15 Mbit/s
95th percentile per-packet one-way delay: 12.677 ms
Loss rate: 0.05%
```

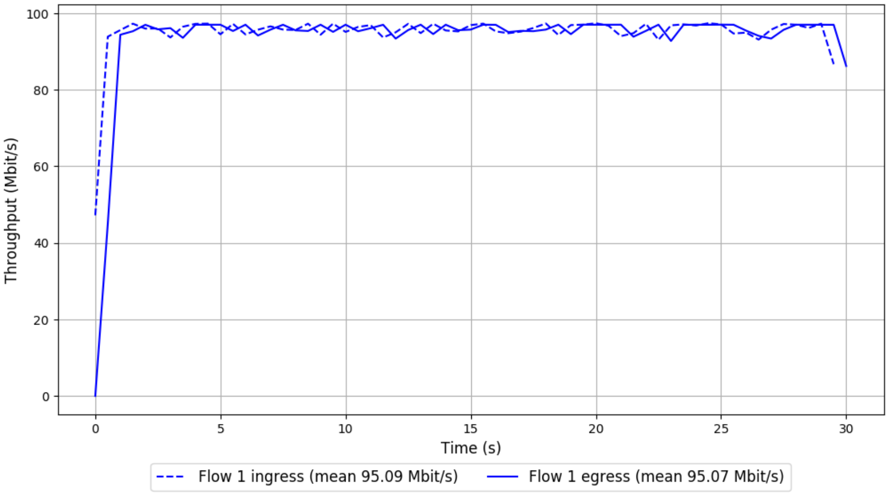
Run 5: Report of FillP — Data Link

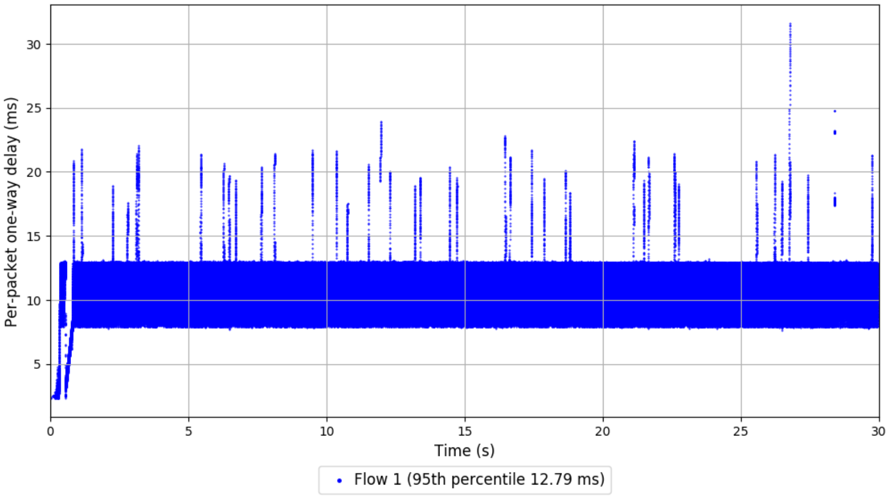




```
Run 6: Statistics of FillP

Start at: 2018-08-01 17:59:32
End at: 2018-08-01 18:00:02
Local clock offset: -3.04 ms
Remote clock offset: -1.777 ms

# Below is generated by plot.py at 2018-08-01 19:37:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.07 Mbit/s
95th percentile per-packet one-way delay: 12.786 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 95.07 Mbit/s
95th percentile per-packet one-way delay: 12.786 ms
Loss rate: 0.04%
```

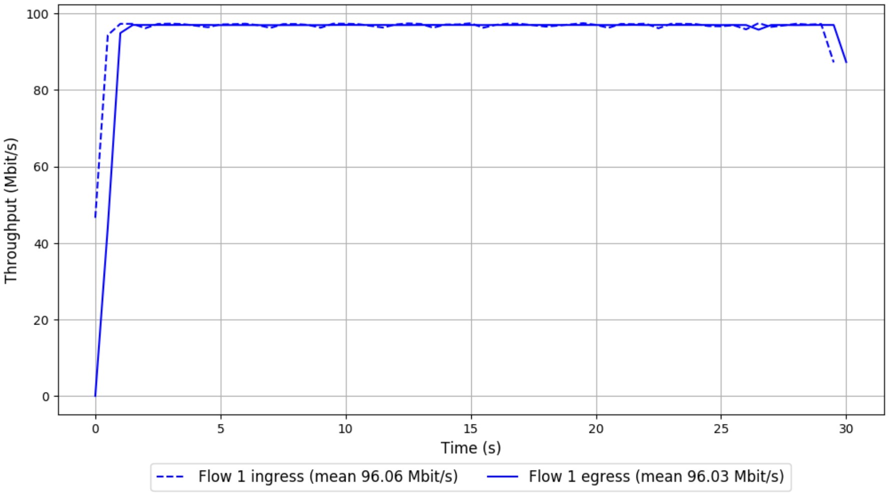
Run 6: Report of FillP — Data Link

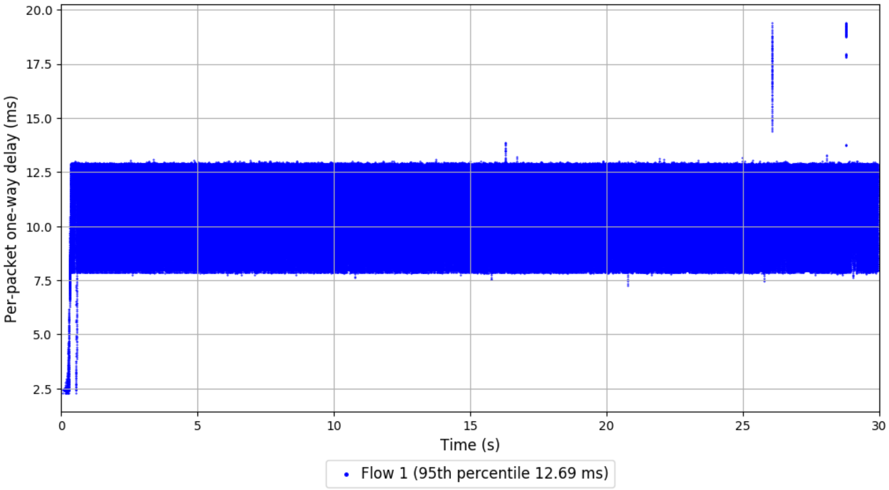




```
Run 7: Statistics of FillP

Start at: 2018-08-01 18:18:34
End at: 2018-08-01 18:19:04
Local clock offset: -3.142 ms
Remote clock offset: -3.019 ms

# Below is generated by plot.py at 2018-08-01 19:37:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.03 Mbit/s
95th percentile per-packet one-way delay: 12.688 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 96.03 Mbit/s
95th percentile per-packet one-way delay: 12.688 ms
Loss rate: 0.04%
```

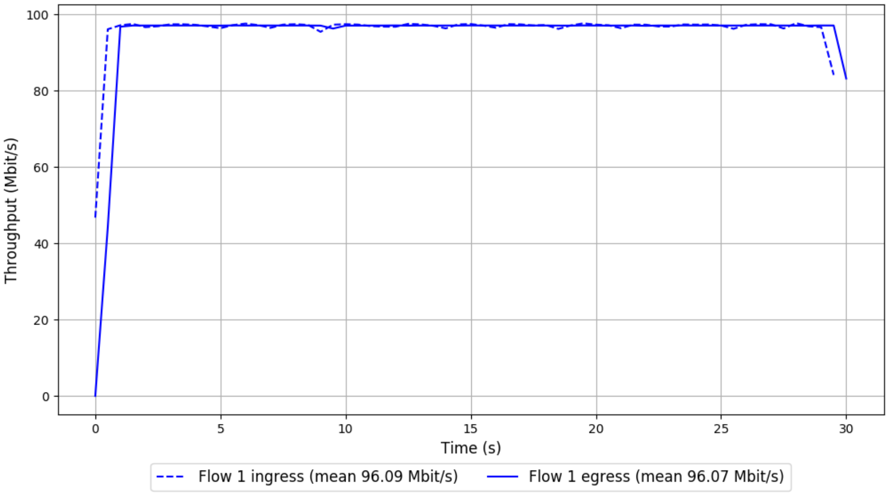
Run 7: Report of FillP — Data Link

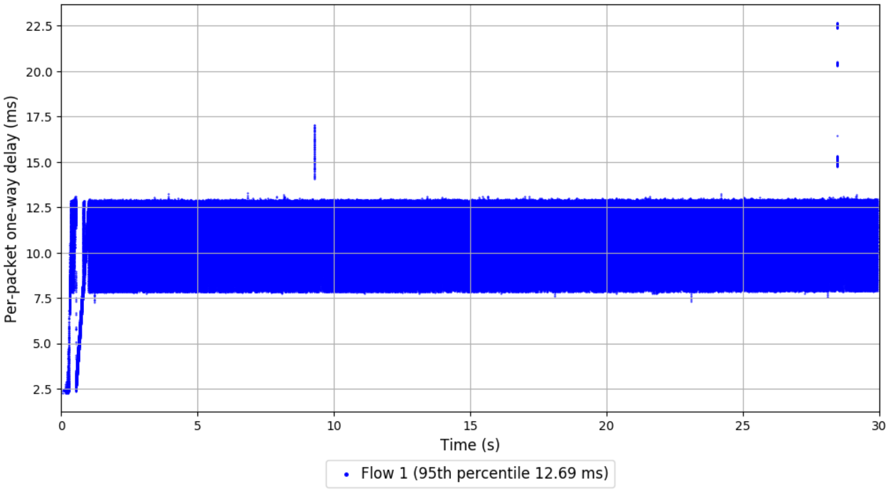




```
Run 8: Statistics of FillP

Start at: 2018-08-01 18:37:36
End at: 2018-08-01 18:38:06
Local clock offset: -2.787 ms
Remote clock offset: -2.69 ms

# Below is generated by plot.py at 2018-08-01 19:37:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.07 Mbit/s
95th percentile per-packet one-way delay: 12.685 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 96.07 Mbit/s
95th percentile per-packet one-way delay: 12.685 ms
Loss rate: 0.05%
```

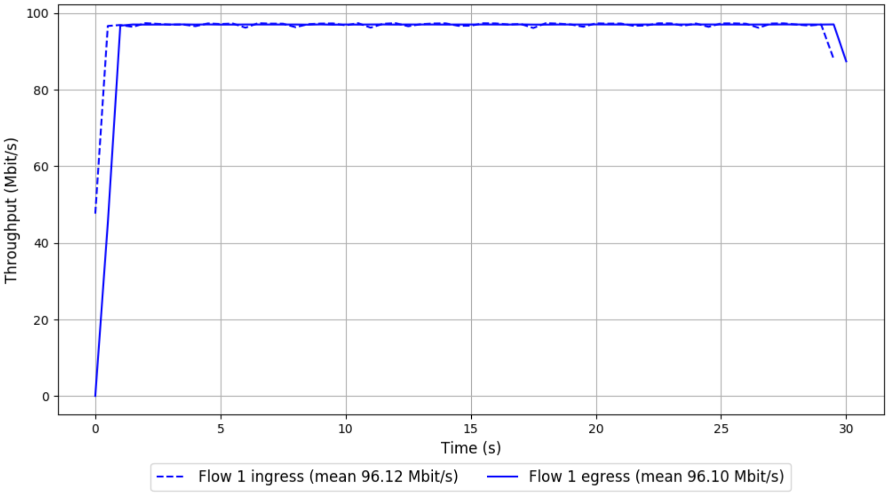
Run 8: Report of FillP — Data Link

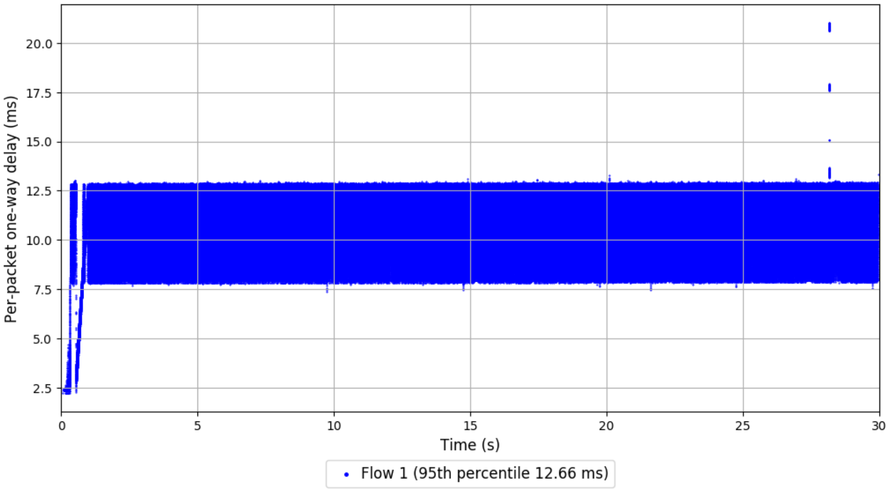




```
Run 9: Statistics of FillP

Start at: 2018-08-01 18:56:39
End at: 2018-08-01 18:57:09
Local clock offset: -2.868 ms
Remote clock offset: -1.359 ms

# Below is generated by plot.py at 2018-08-01 19:37:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.10 Mbit/s
95th percentile per-packet one-way delay: 12.663 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 96.10 Mbit/s
95th percentile per-packet one-way delay: 12.663 ms
Loss rate: 0.04%
```

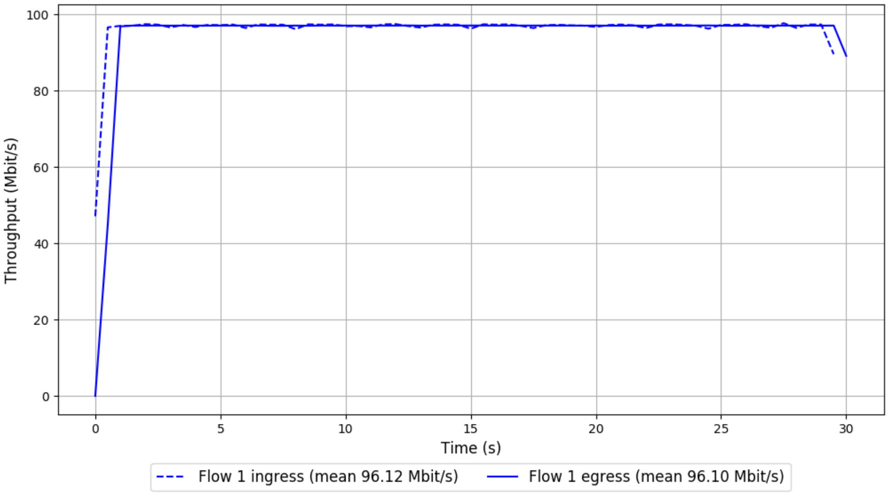
Run 9: Report of FillP — Data Link

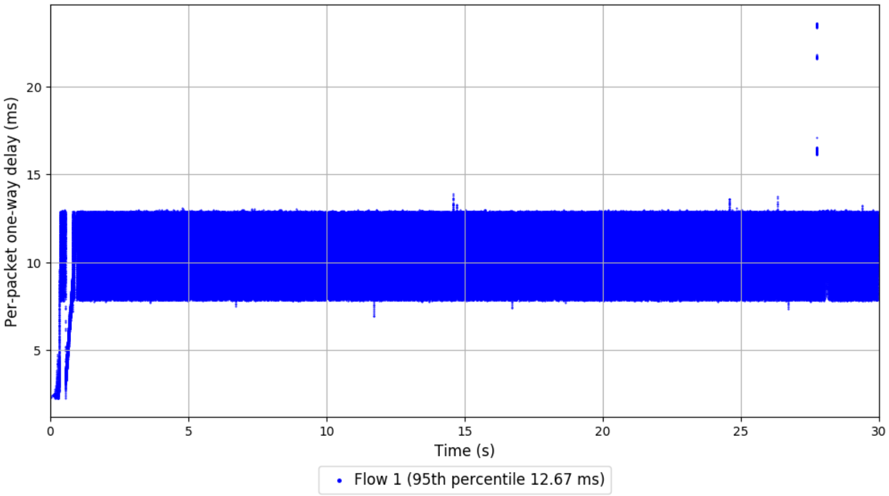




```
Run 10: Statistics of FillP

Start at: 2018-08-01 19:15:42
End at: 2018-08-01 19:16:12
Local clock offset: -3.387 ms
Remote clock offset: -1.484 ms

# Below is generated by plot.py at 2018-08-01 19:38:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.10 Mbit/s
95th percentile per-packet one-way delay: 12.674 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 96.10 Mbit/s
95th percentile per-packet one-way delay: 12.674 ms
Loss rate: 0.05%
```

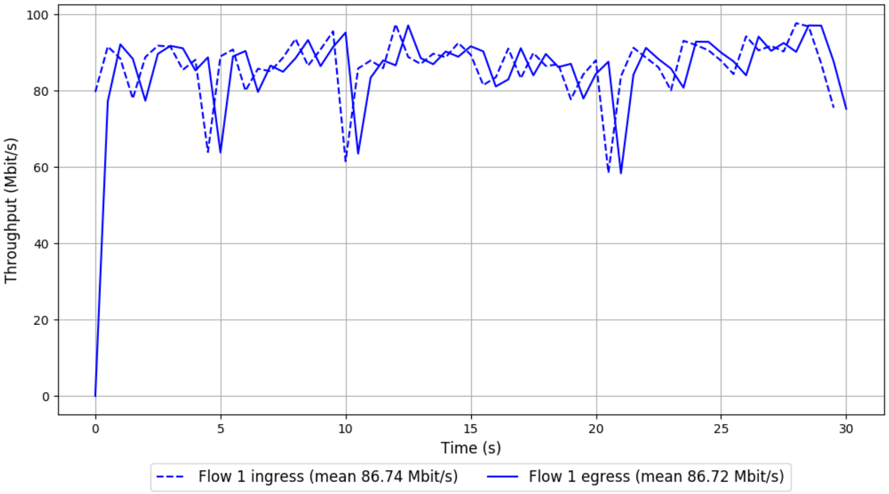
Run 10: Report of FillP — Data Link

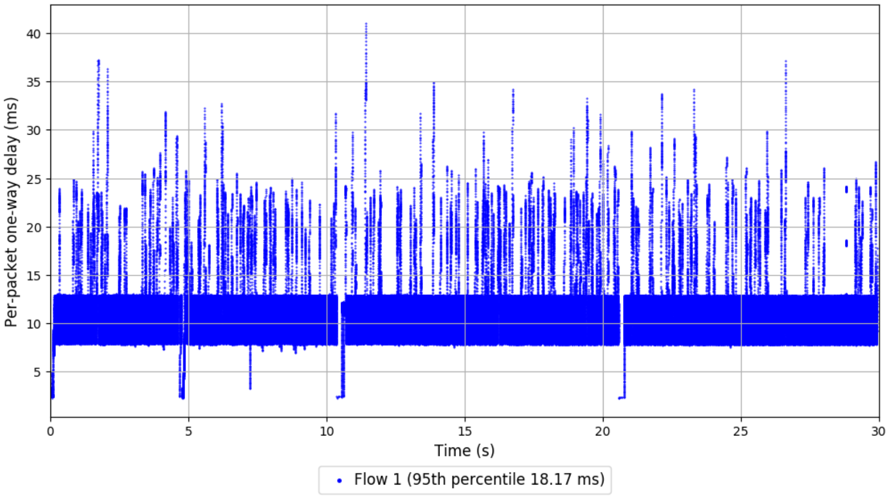




```
Run 1: Statistics of FillP-Sheep

Start at: 2018-08-01 16:32:19
End at: 2018-08-01 16:32:49
Local clock offset: -4.028 ms
Remote clock offset: -2.145 ms

# Below is generated by plot.py at 2018-08-01 19:38:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.72 Mbit/s
95th percentile per-packet one-way delay: 18.171 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 86.72 Mbit/s
95th percentile per-packet one-way delay: 18.171 ms
Loss rate: 0.04%
```

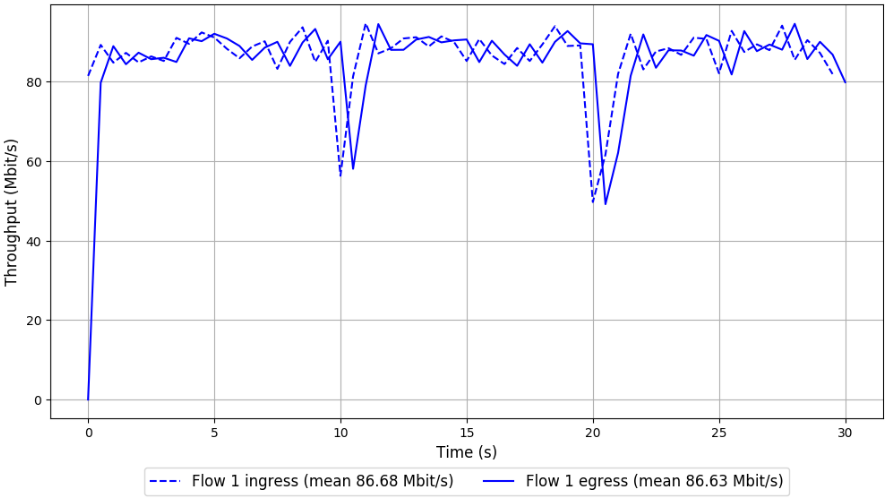
Run 1: Report of FillP-Sheep — Data Link

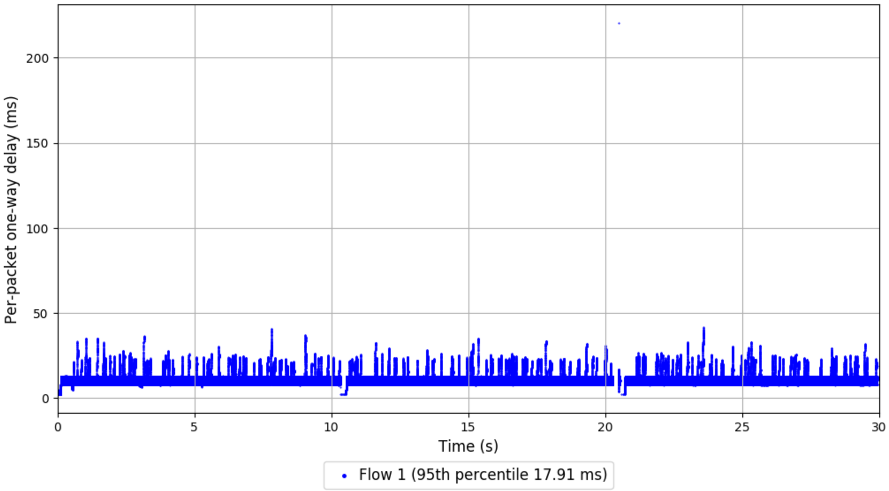




```
Run 2: Statistics of FillP-Sheep

Start at: 2018-08-01 16:51:16
End at: 2018-08-01 16:51:46
Local clock offset: -2.428 ms
Remote clock offset: -1.437 ms

# Below is generated by plot.py at 2018-08-01 19:38:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.63 Mbit/s
95th percentile per-packet one-way delay: 17.909 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 86.63 Mbit/s
95th percentile per-packet one-way delay: 17.909 ms
Loss rate: 0.09%
```

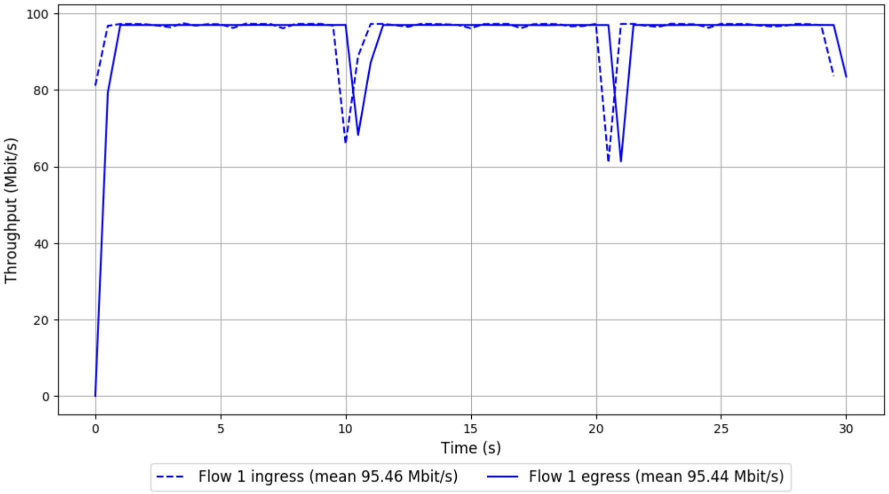
Run 2: Report of FillP-Sheep — Data Link

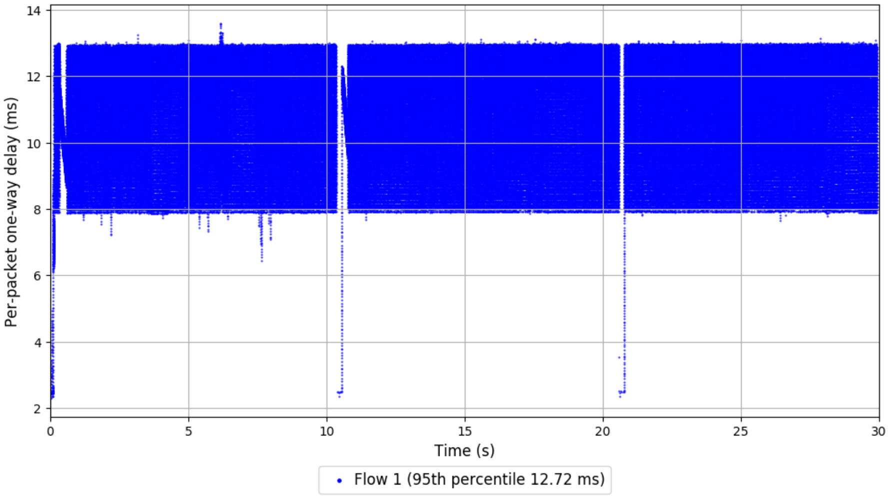




```
Run 3: Statistics of FillP-Sheep

Start at: 2018-08-01 17:10:13
End at: 2018-08-01 17:10:43
Local clock offset: -6.395 ms
Remote clock offset: -2.844 ms

# Below is generated by plot.py at 2018-08-01 19:38:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.44 Mbit/s
95th percentile per-packet one-way delay: 12.720 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 95.44 Mbit/s
95th percentile per-packet one-way delay: 12.720 ms
Loss rate: 0.04%
```

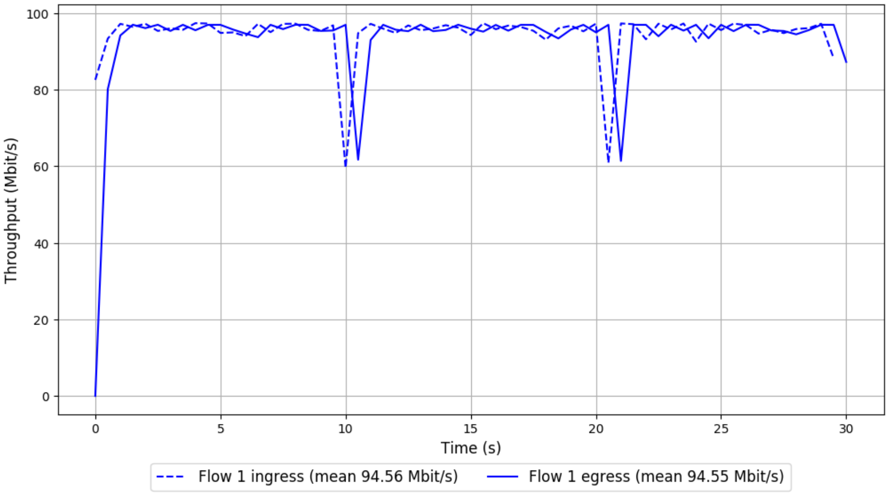
Run 3: Report of FillP-Sheep — Data Link

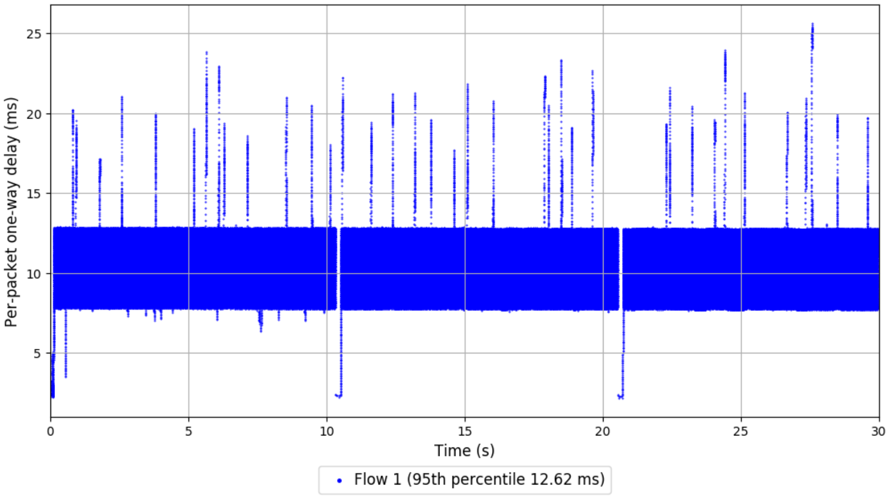




```
Run 4: Statistics of FillP-Sheep

Start at: 2018-08-01 17:29:15
End at: 2018-08-01 17:29:45
Local clock offset: -4.854 ms
Remote clock offset: -2.739 ms

# Below is generated by plot.py at 2018-08-01 19:38:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.55 Mbit/s
95th percentile per-packet one-way delay: 12.621 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 94.55 Mbit/s
95th percentile per-packet one-way delay: 12.621 ms
Loss rate: 0.05%
```

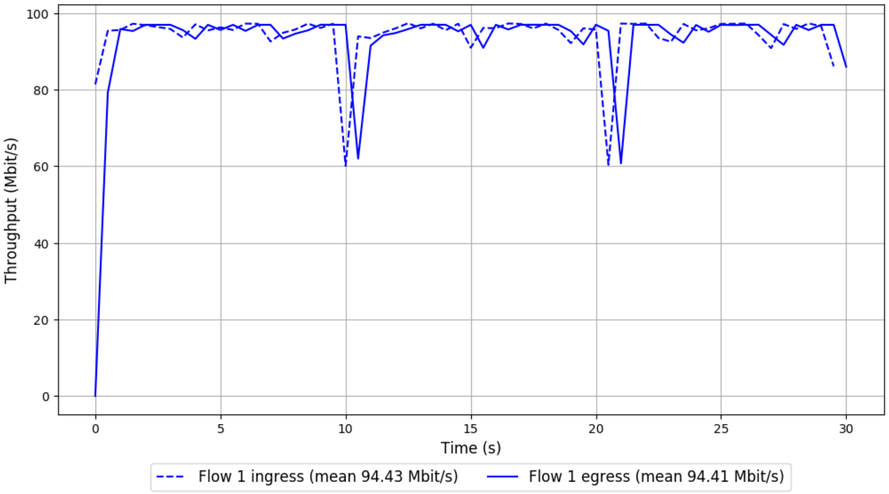
Run 4: Report of FillP-Sheep — Data Link

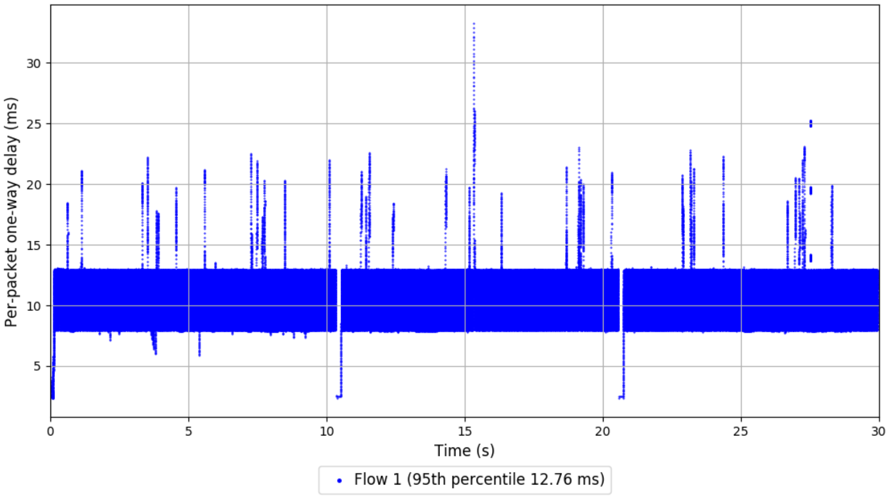




```
Run 5: Statistics of FillP-Sheep

Start at: 2018-08-01 17:48:16
End at: 2018-08-01 17:48:46
Local clock offset: -2.756 ms
Remote clock offset: -2.072 ms

# Below is generated by plot.py at 2018-08-01 19:38:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.41 Mbit/s
95th percentile per-packet one-way delay: 12.762 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 94.41 Mbit/s
95th percentile per-packet one-way delay: 12.762 ms
Loss rate: 0.04%
```

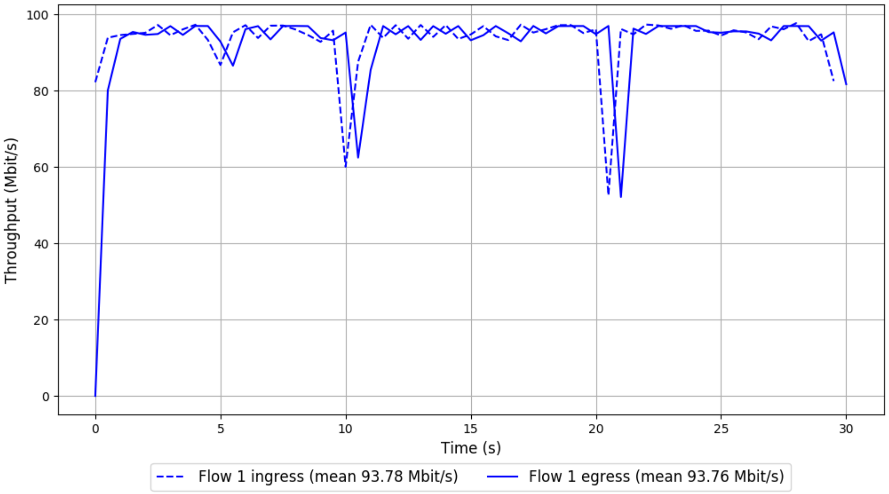
Run 5: Report of FillP-Sheep — Data Link

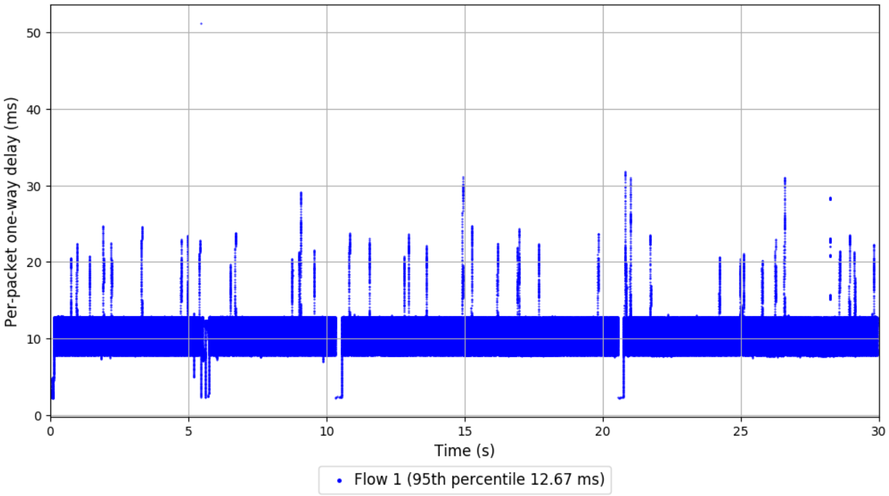




```
Run 6: Statistics of FillP-Sheep

Start at: 2018-08-01 18:07:18
End at: 2018-08-01 18:07:48
Local clock offset: -3.191 ms
Remote clock offset: -2.494 ms

# Below is generated by plot.py at 2018-08-01 19:38:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.76 Mbit/s
95th percentile per-packet one-way delay: 12.674 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 93.76 Mbit/s
95th percentile per-packet one-way delay: 12.674 ms
Loss rate: 0.05%
```

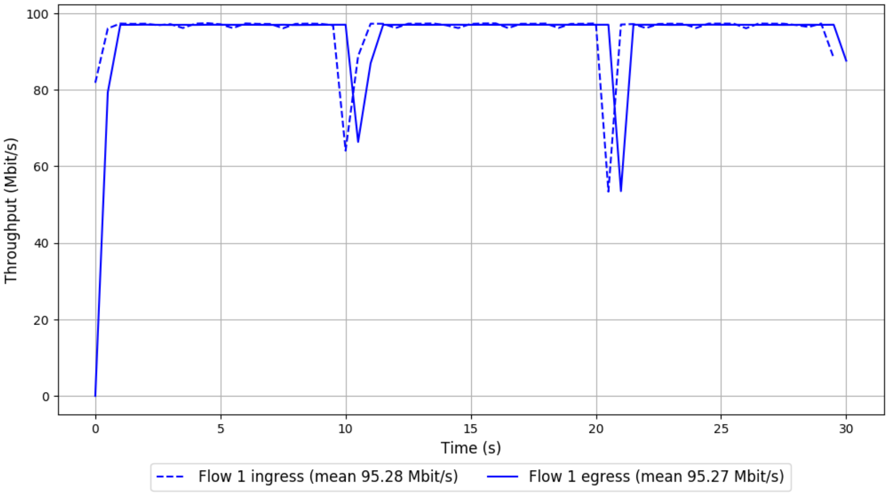
Run 6: Report of FillP-Sheep — Data Link

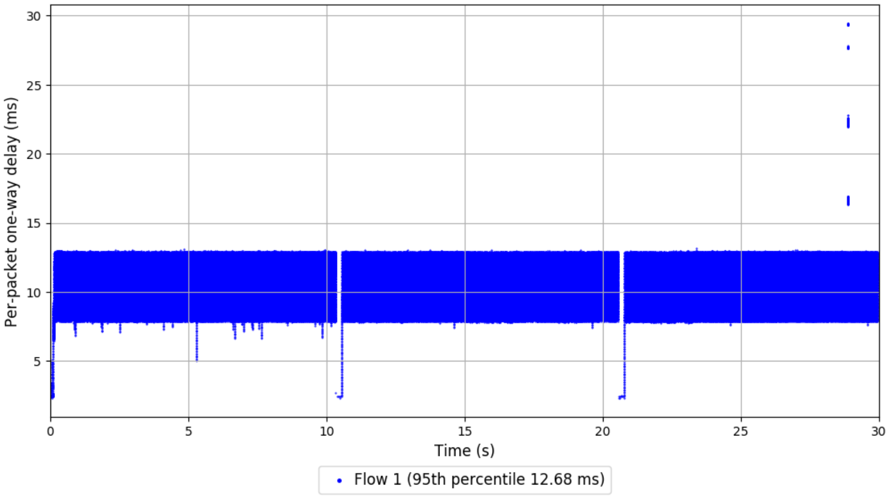




```
Run 7: Statistics of FillP-Sheep

Start at: 2018-08-01 18:26:20
End at: 2018-08-01 18:26:50
Local clock offset: -2.993 ms
Remote clock offset: -3.106 ms

# Below is generated by plot.py at 2018-08-01 19:39:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.27 Mbit/s
95th percentile per-packet one-way delay: 12.677 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 95.27 Mbit/s
95th percentile per-packet one-way delay: 12.677 ms
Loss rate: 0.05%
```

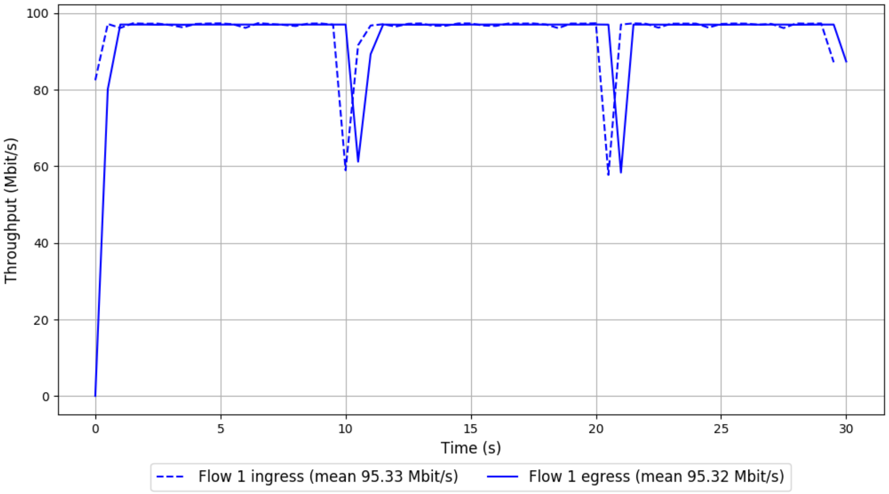
Run 7: Report of FillP-Sheep — Data Link

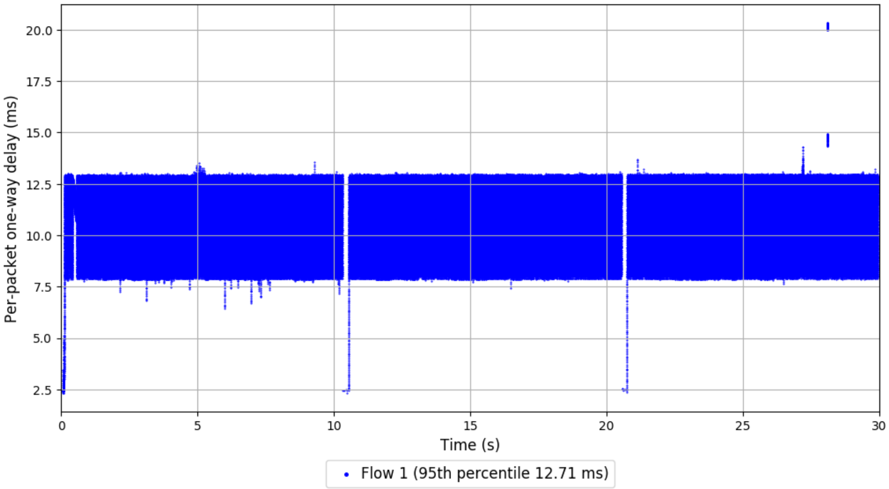




```
Run 8: Statistics of FillP-Sheep

Start at: 2018-08-01 18:45:23
End at: 2018-08-01 18:45:53
Local clock offset: -2.629 ms
Remote clock offset: -2.013 ms

# Below is generated by plot.py at 2018-08-01 19:39:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.32 Mbit/s
95th percentile per-packet one-way delay: 12.713 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 95.32 Mbit/s
95th percentile per-packet one-way delay: 12.713 ms
Loss rate: 0.04%
```

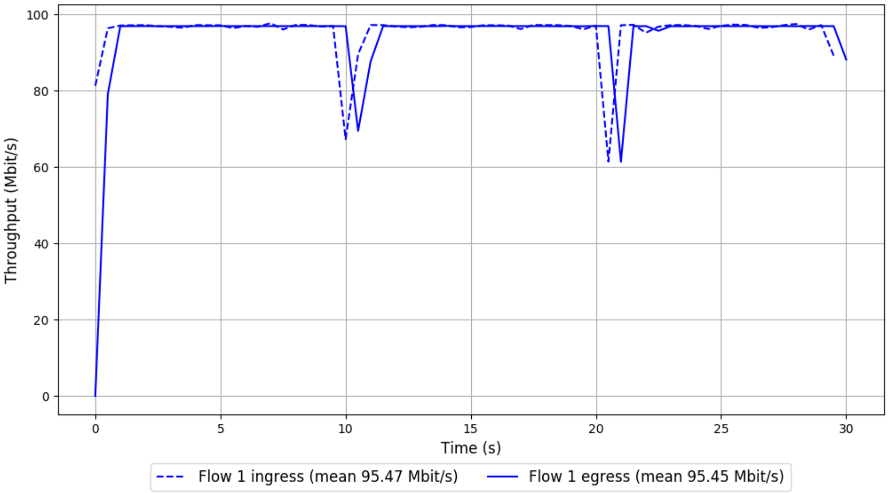
Run 8: Report of FillP-Sheep — Data Link

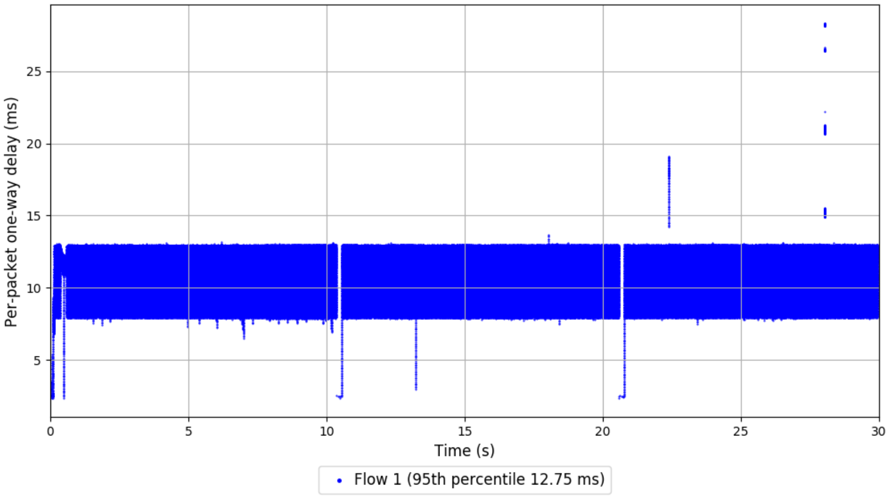




```
Run 9: Statistics of FillP-Sheep

Start at: 2018-08-01 19:04:25
End at: 2018-08-01 19:04:56
Local clock offset: -3.215 ms
Remote clock offset: -1.228 ms

# Below is generated by plot.py at 2018-08-01 19:39:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.45 Mbit/s
95th percentile per-packet one-way delay: 12.752 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 95.45 Mbit/s
95th percentile per-packet one-way delay: 12.752 ms
Loss rate: 0.05%
```

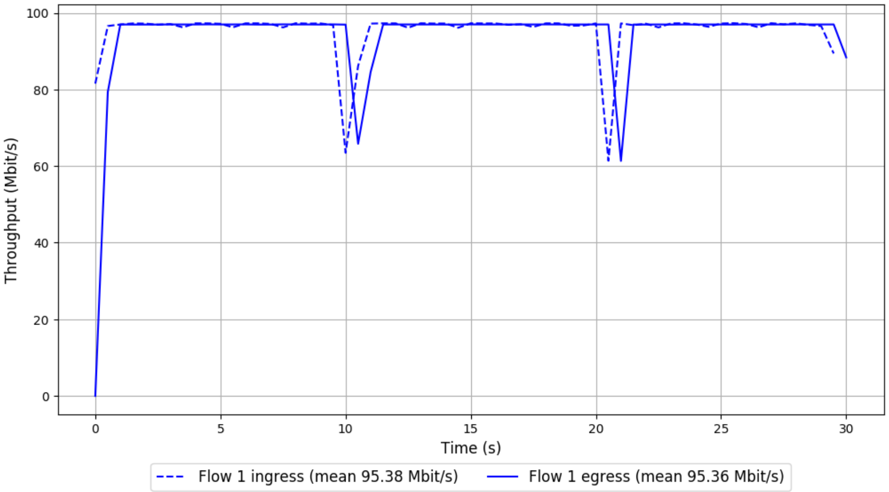
Run 9: Report of FillP-Sheep — Data Link

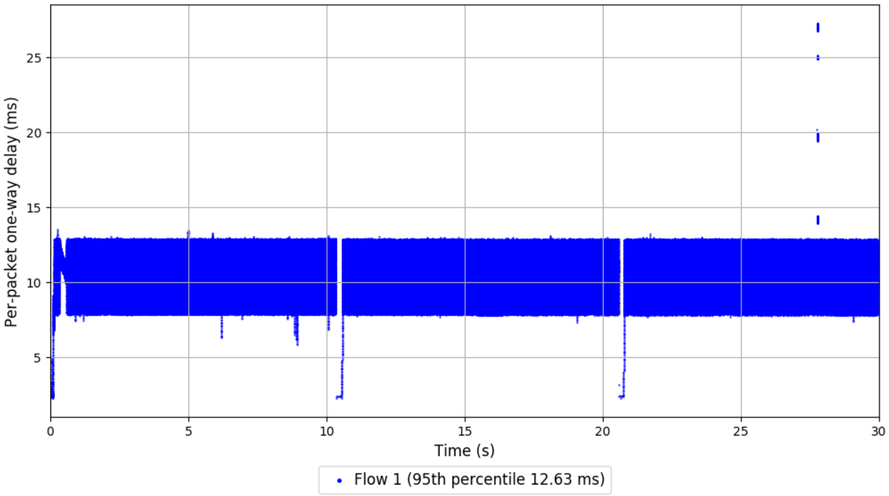




```
Run 10: Statistics of FillP-Sheep

Start at: 2018-08-01 19:23:28
End at: 2018-08-01 19:23:58
Local clock offset: -3.321 ms
Remote clock offset: -1.636 ms

# Below is generated by plot.py at 2018-08-01 19:39:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.36 Mbit/s
95th percentile per-packet one-way delay: 12.634 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 95.36 Mbit/s
95th percentile per-packet one-way delay: 12.634 ms
Loss rate: 0.05%
```

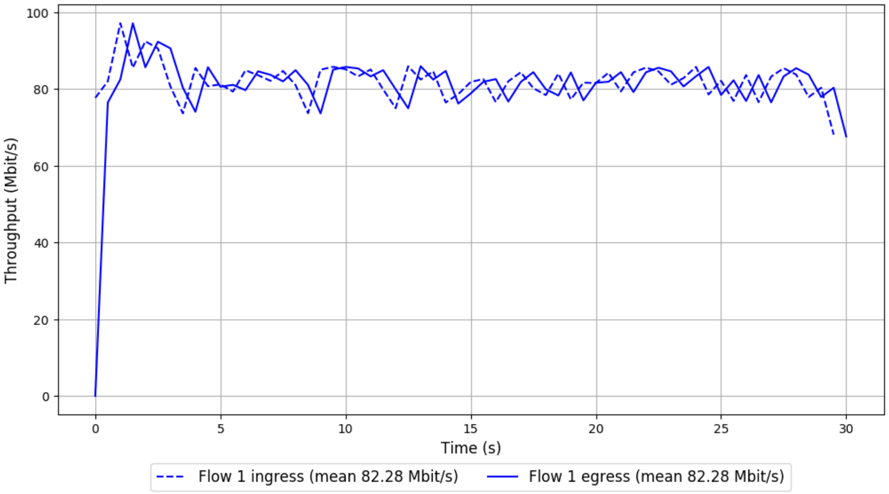
Run 10: Report of FillP-Sheep — Data Link

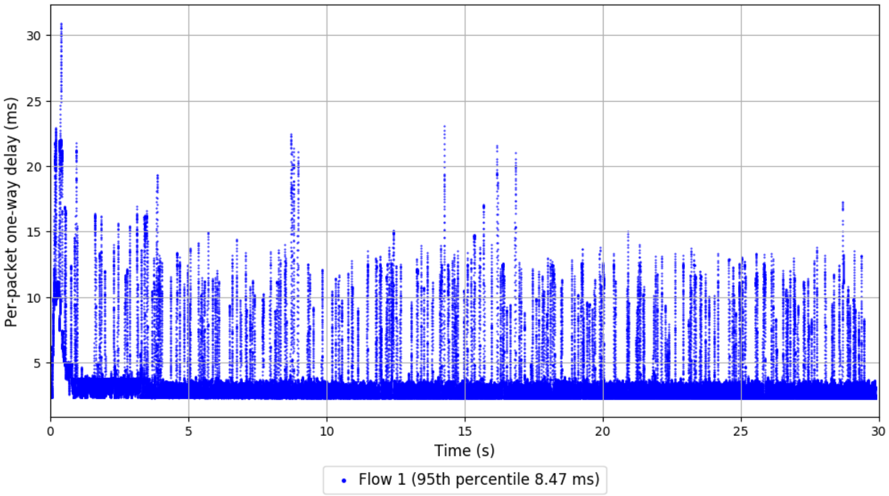




```
Run 1: Statistics of Indigo

Start at: 2018-08-01 16:34:33
End at: 2018-08-01 16:35:03
Local clock offset: -3.685 ms
Remote clock offset: -1.93 ms

# Below is generated by plot.py at 2018-08-01 19:39:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.28 Mbit/s
95th percentile per-packet one-way delay: 8.471 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 82.28 Mbit/s
95th percentile per-packet one-way delay: 8.471 ms
Loss rate: 0.02%
```

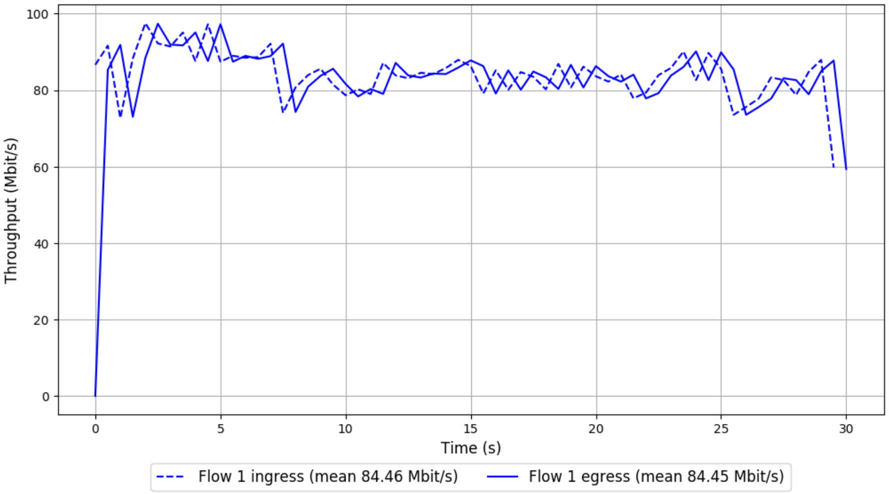
Run 1: Report of Indigo — Data Link

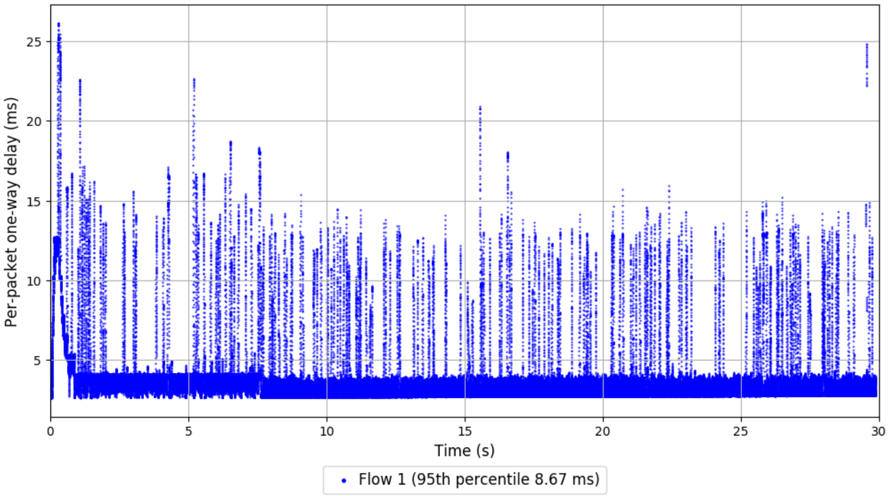




```
Run 2: Statistics of Indigo

Start at: 2018-08-01 16:53:29
End at: 2018-08-01 16:53:59
Local clock offset: -2.832 ms
Remote clock offset: -1.827 ms

# Below is generated by plot.py at 2018-08-01 19:39:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.45 Mbit/s
95th percentile per-packet one-way delay: 8.673 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 84.45 Mbit/s
95th percentile per-packet one-way delay: 8.673 ms
Loss rate: 0.02%
```

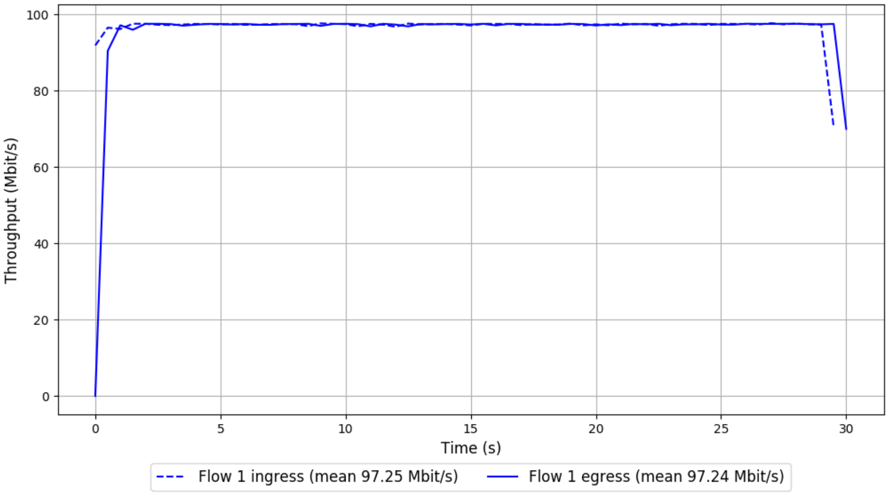
Run 2: Report of Indigo — Data Link

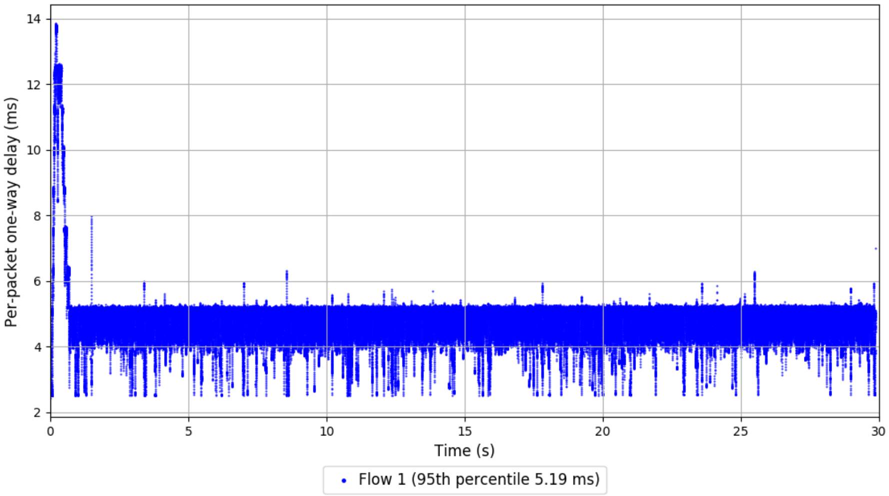




```
Run 3: Statistics of Indigo

Start at: 2018-08-01 17:12:27
End at: 2018-08-01 17:12:57
Local clock offset: -6.561 ms
Remote clock offset: -2.934 ms

# Below is generated by plot.py at 2018-08-01 19:39:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.24 Mbit/s
95th percentile per-packet one-way delay: 5.194 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.24 Mbit/s
95th percentile per-packet one-way delay: 5.194 ms
Loss rate: 0.02%
```

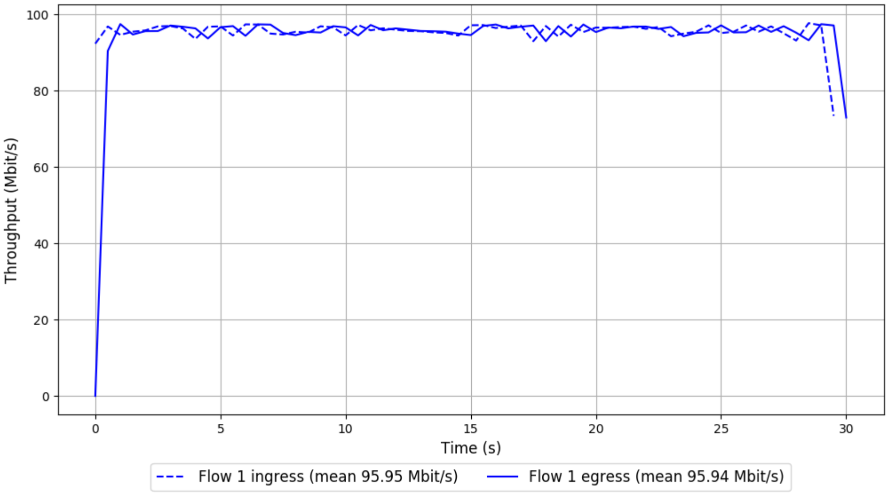
Run 3: Report of Indigo — Data Link

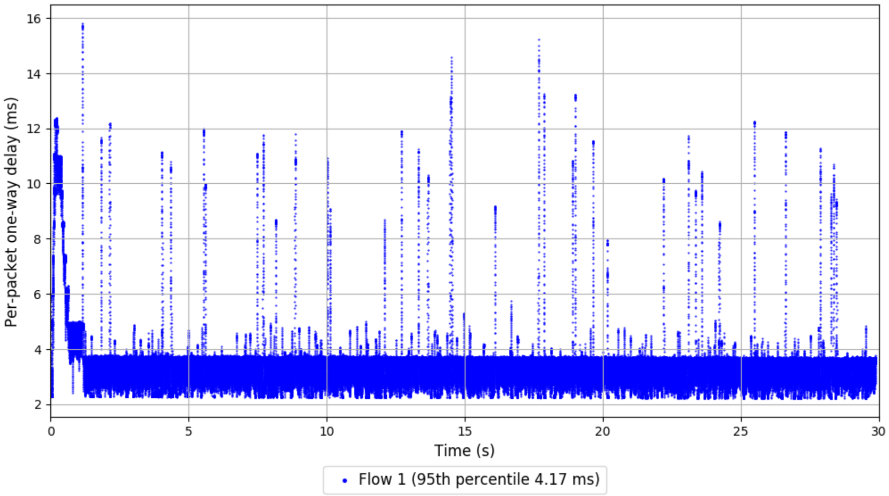




```
Run 4: Statistics of Indigo

Start at: 2018-08-01 17:31:29
End at: 2018-08-01 17:31:59
Local clock offset: -4.386 ms
Remote clock offset: -2.507 ms

# Below is generated by plot.py at 2018-08-01 19:39:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.94 Mbit/s
95th percentile per-packet one-way delay: 4.168 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 95.94 Mbit/s
95th percentile per-packet one-way delay: 4.168 ms
Loss rate: 0.03%
```

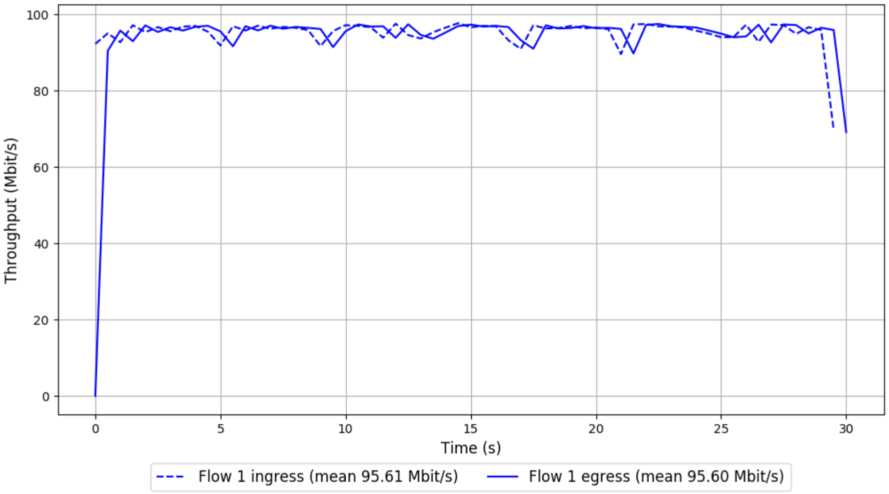
Run 4: Report of Indigo — Data Link

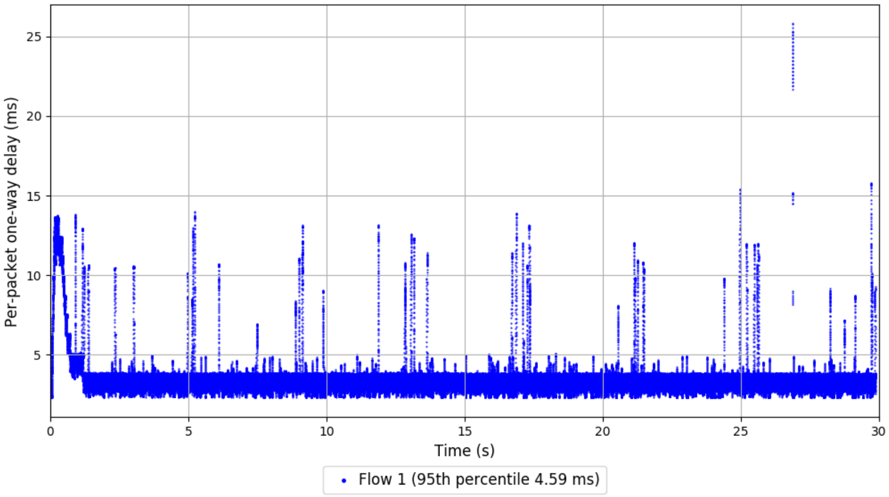




```
Run 5: Statistics of Indigo

Start at: 2018-08-01 17:50:30
End at: 2018-08-01 17:51:00
Local clock offset: -2.678 ms
Remote clock offset: -1.93 ms

# Below is generated by plot.py at 2018-08-01 19:40:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.60 Mbit/s
95th percentile per-packet one-way delay: 4.595 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 95.60 Mbit/s
95th percentile per-packet one-way delay: 4.595 ms
Loss rate: 0.02%
```

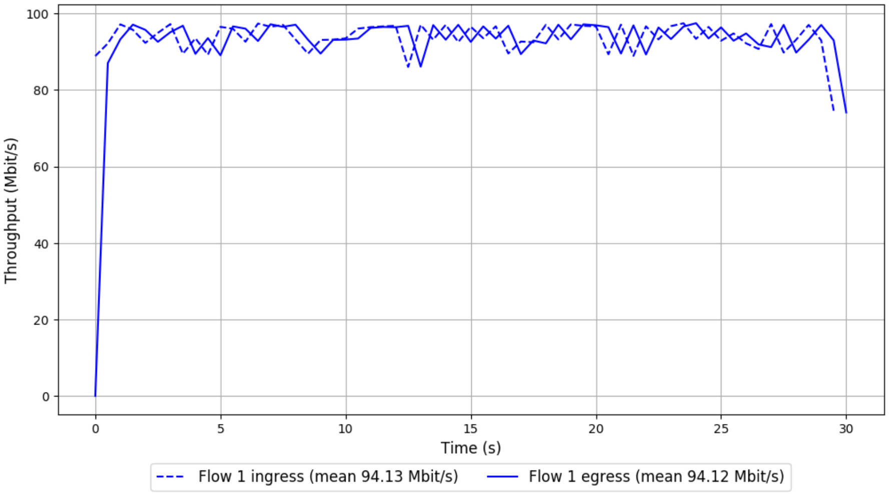
Run 5: Report of Indigo — Data Link

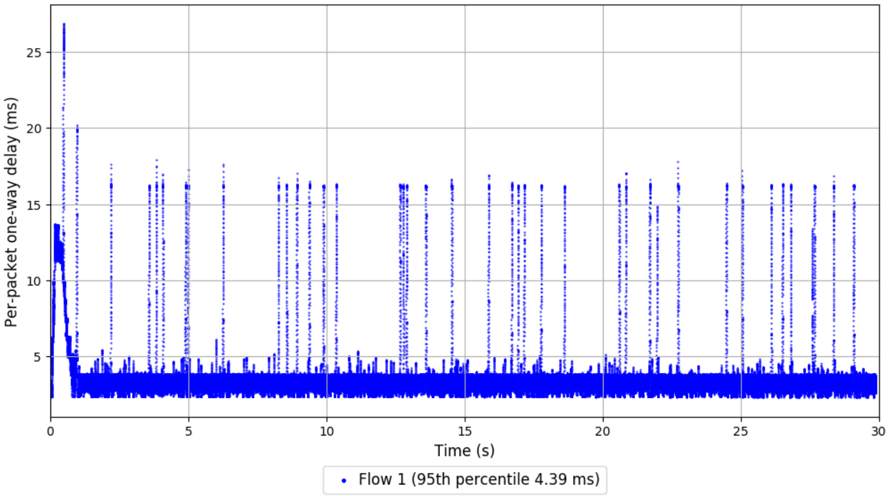




```
Run 6: Statistics of Indigo

Start at: 2018-08-01 18:09:32
End at: 2018-08-01 18:10:02
Local clock offset: -3.264 ms
Remote clock offset: -2.714 ms

# Below is generated by plot.py at 2018-08-01 19:40:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.12 Mbit/s
95th percentile per-packet one-way delay: 4.395 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 94.12 Mbit/s
95th percentile per-packet one-way delay: 4.395 ms
Loss rate: 0.02%
```

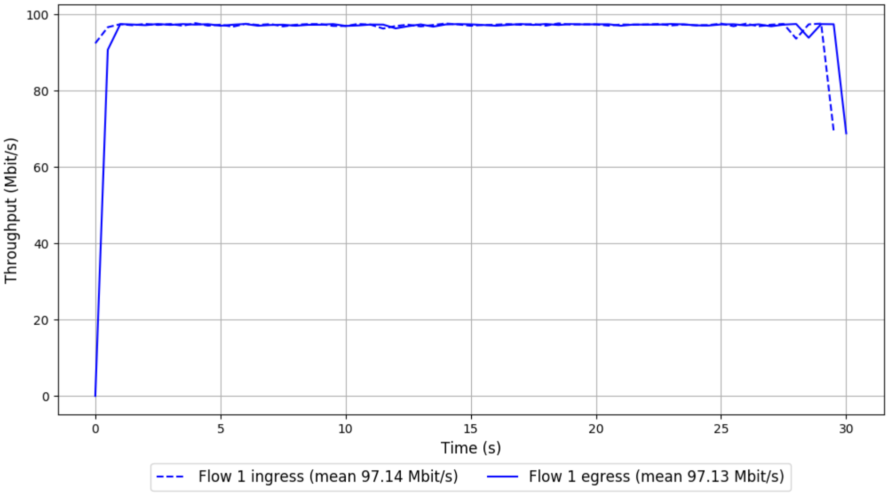
Run 6: Report of Indigo — Data Link

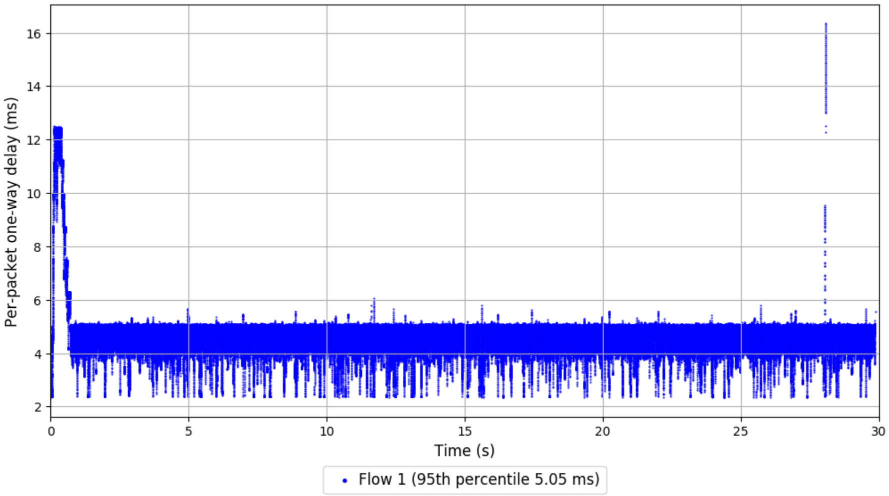




```
Run 7: Statistics of Indigo

Start at: 2018-08-01 18:28:34
End at: 2018-08-01 18:29:04
Local clock offset: -2.964 ms
Remote clock offset: -3.11 ms

# Below is generated by plot.py at 2018-08-01 19:40:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 5.049 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 5.049 ms
Loss rate: 0.02%
```

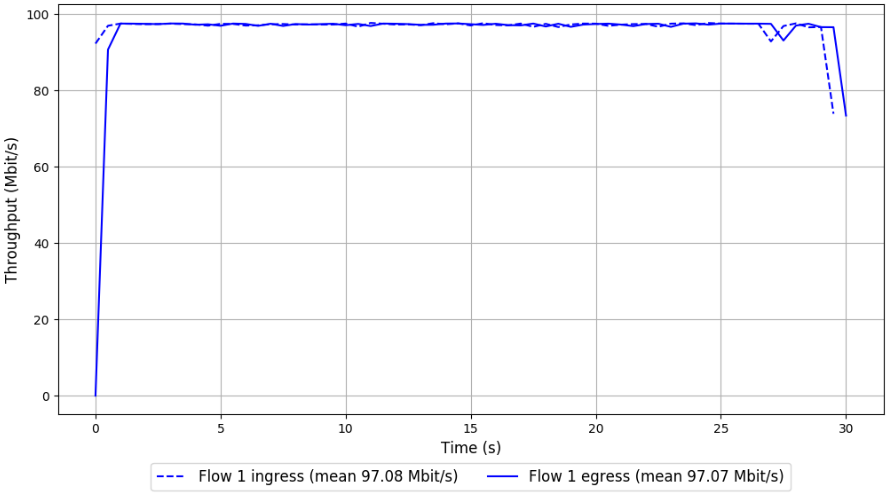
Run 7: Report of Indigo — Data Link

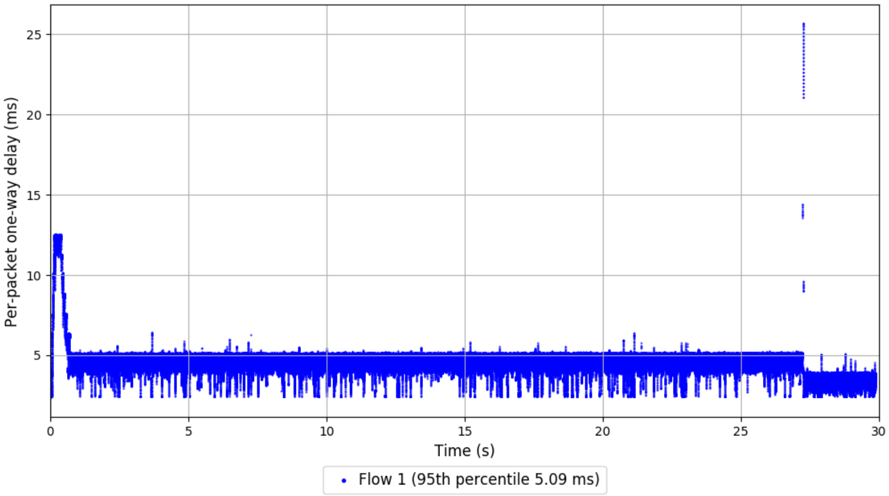




```
Run 8: Statistics of Indigo

Start at: 2018-08-01 18:47:37
End at: 2018-08-01 18:48:07
Local clock offset: -2.643 ms
Remote clock offset: -1.906 ms

# Below is generated by plot.py at 2018-08-01 19:40:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.07 Mbit/s
95th percentile per-packet one-way delay: 5.093 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.07 Mbit/s
95th percentile per-packet one-way delay: 5.093 ms
Loss rate: 0.02%
```

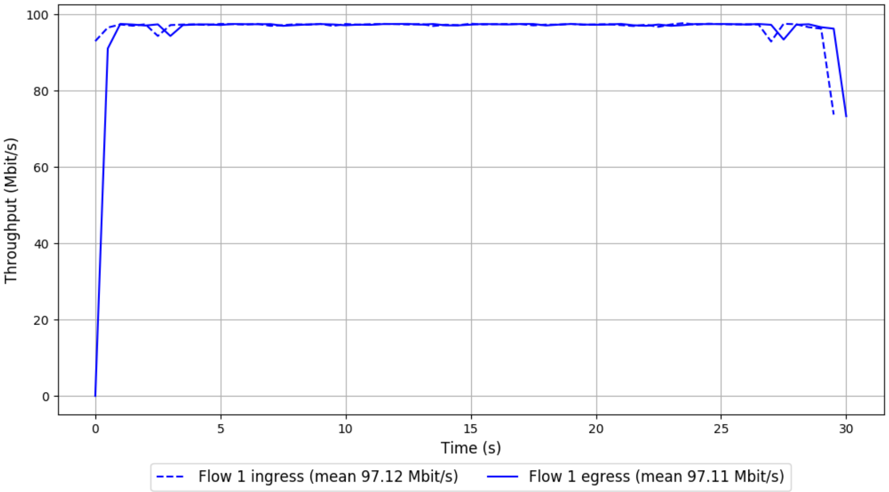
Run 8: Report of Indigo — Data Link

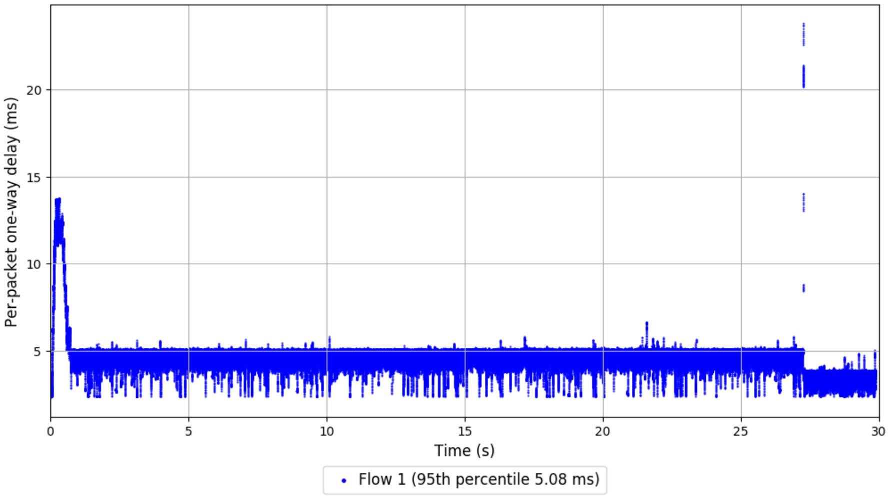




```
Run 9: Statistics of Indigo

Start at: 2018-08-01 19:06:39
End at: 2018-08-01 19:07:09
Local clock offset: -3.321 ms
Remote clock offset: -1.143 ms

# Below is generated by plot.py at 2018-08-01 19:40:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.11 Mbit/s
95th percentile per-packet one-way delay: 5.076 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.11 Mbit/s
95th percentile per-packet one-way delay: 5.076 ms
Loss rate: 0.02%
```

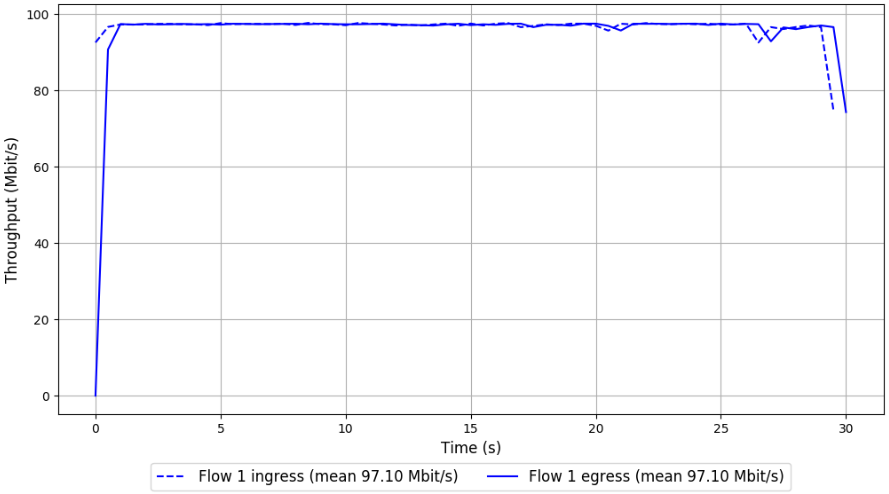
Run 9: Report of Indigo — Data Link

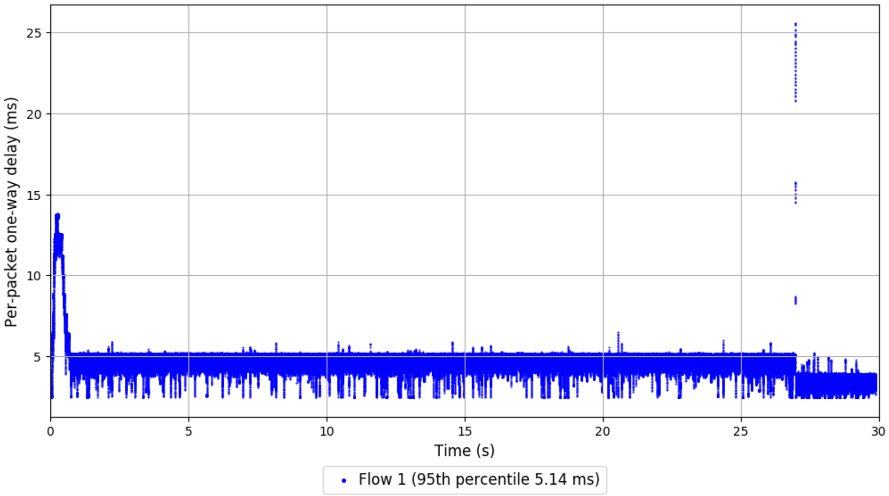




```
Run 10: Statistics of Indigo

Start at: 2018-08-01 19:25:42
End at: 2018-08-01 19:26:12
Local clock offset: -3.213 ms
Remote clock offset: -1.747 ms

# Below is generated by plot.py at 2018-08-01 19:40:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.10 Mbit/s
95th percentile per-packet one-way delay: 5.144 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.10 Mbit/s
95th percentile per-packet one-way delay: 5.144 ms
Loss rate: 0.02%
```

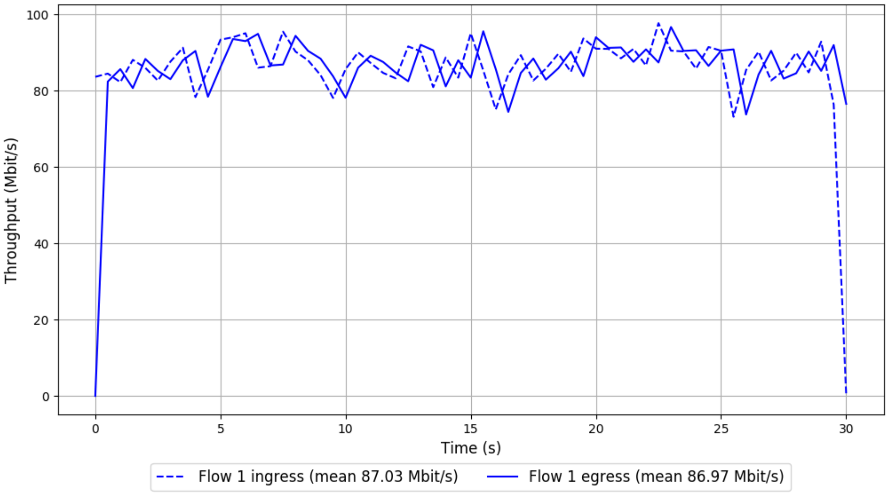
Run 10: Report of Indigo — Data Link

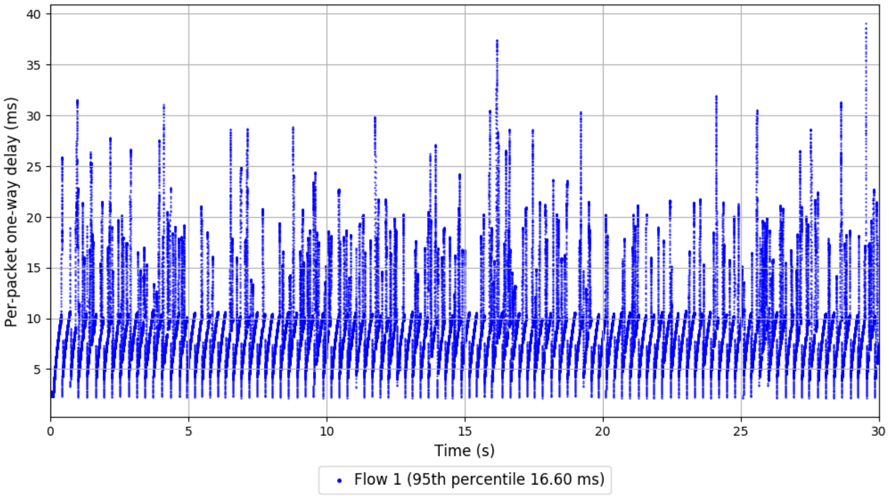




```
Run 1: Statistics of LEDBAT

Start at: 2018-08-01 16:31:11
End at: 2018-08-01 16:31:41
Local clock offset: -4.133 ms
Remote clock offset: -1.984 ms

# Below is generated by plot.py at 2018-08-01 19:40:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.97 Mbit/s
95th percentile per-packet one-way delay: 16.603 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 86.97 Mbit/s
95th percentile per-packet one-way delay: 16.603 ms
Loss rate: 0.08%
```

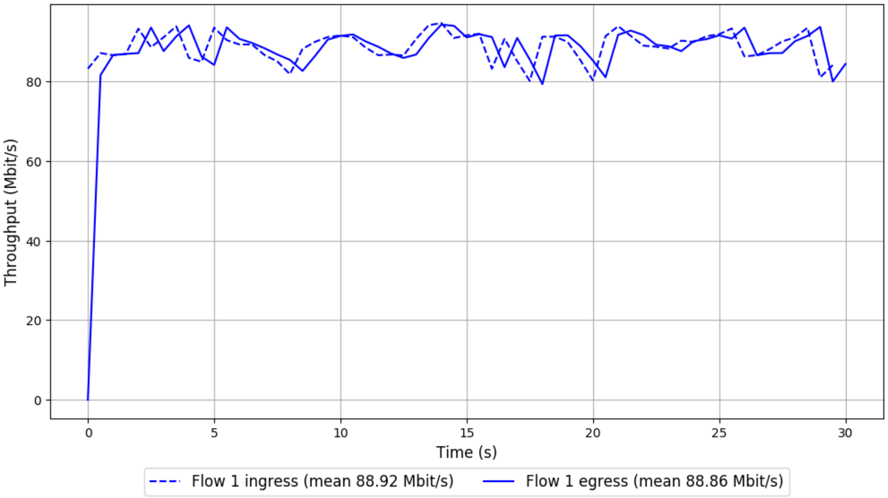
Run 1: Report of LEDBAT — Data Link

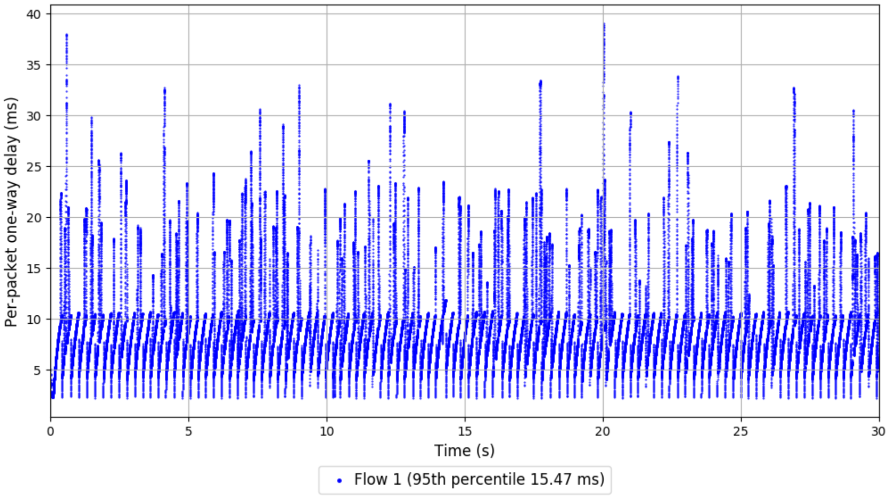




```
Run 2: Statistics of LEDBAT

Start at: 2018-08-01 16:50:08
End at: 2018-08-01 16:50:38
Local clock offset: -2.498 ms
Remote clock offset: -1.478 ms

# Below is generated by plot.py at 2018-08-01 19:40:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.86 Mbit/s
95th percentile per-packet one-way delay: 15.474 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 88.86 Mbit/s
95th percentile per-packet one-way delay: 15.474 ms
Loss rate: 0.08%
```

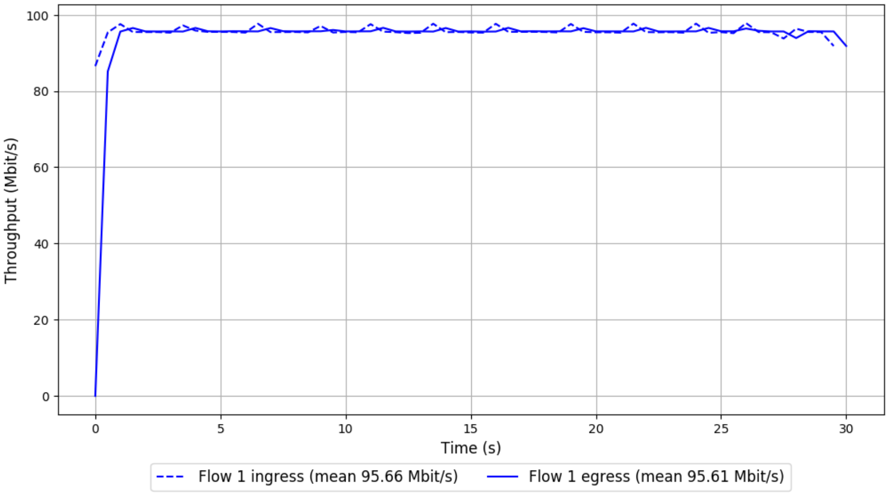
Run 2: Report of LEDBAT — Data Link

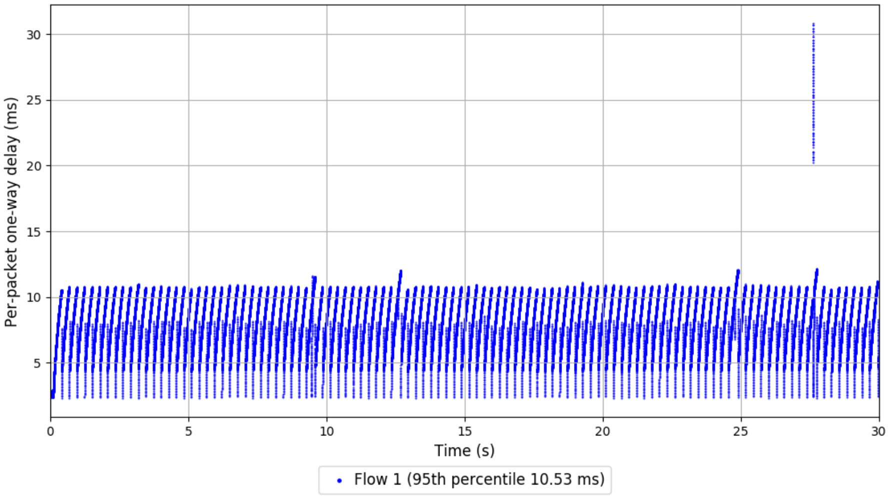




```
Run 3: Statistics of LEDBAT

Start at: 2018-08-01 17:09:04
End at: 2018-08-01 17:09:34
Local clock offset: -6.375 ms
Remote clock offset: -2.85 ms

# Below is generated by plot.py at 2018-08-01 19:41:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.61 Mbit/s
95th percentile per-packet one-way delay: 10.533 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 95.61 Mbit/s
95th percentile per-packet one-way delay: 10.533 ms
Loss rate: 0.07%
```

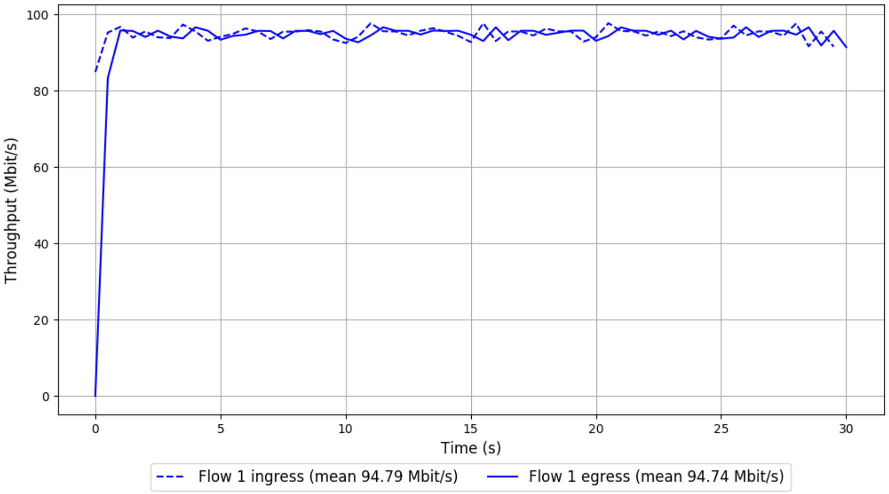
Run 3: Report of LEDBAT — Data Link

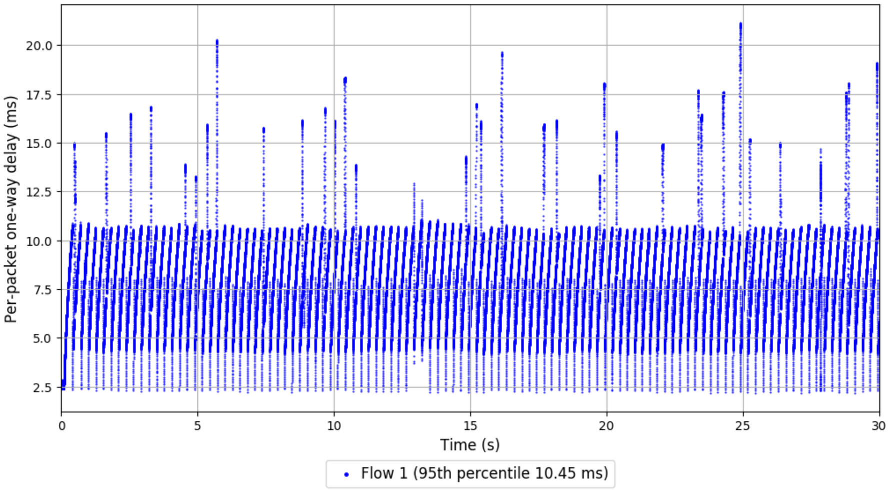




```
Run 4: Statistics of LEDBAT

Start at: 2018-08-01 17:28:06
End at: 2018-08-01 17:28:36
Local clock offset: -5.065 ms
Remote clock offset: -2.786 ms

# Below is generated by plot.py at 2018-08-01 19:41:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.74 Mbit/s
95th percentile per-packet one-way delay: 10.450 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 94.74 Mbit/s
95th percentile per-packet one-way delay: 10.450 ms
Loss rate: 0.07%
```

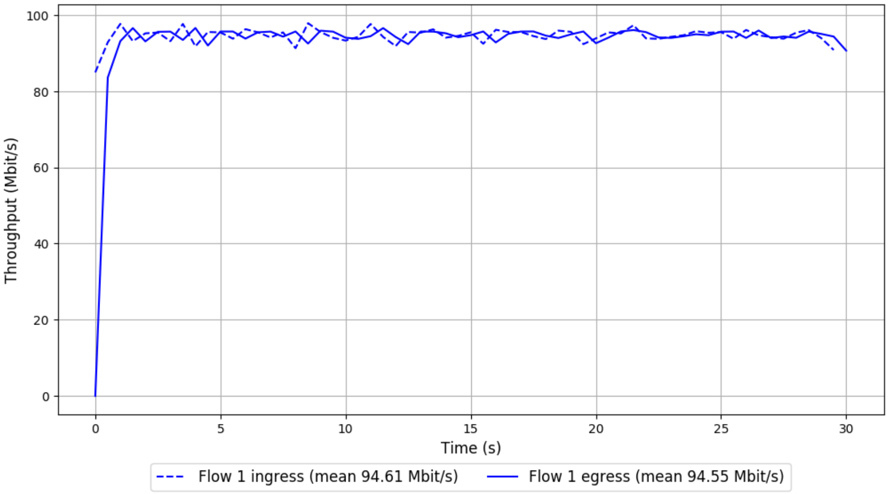
Run 4: Report of LEDBAT — Data Link

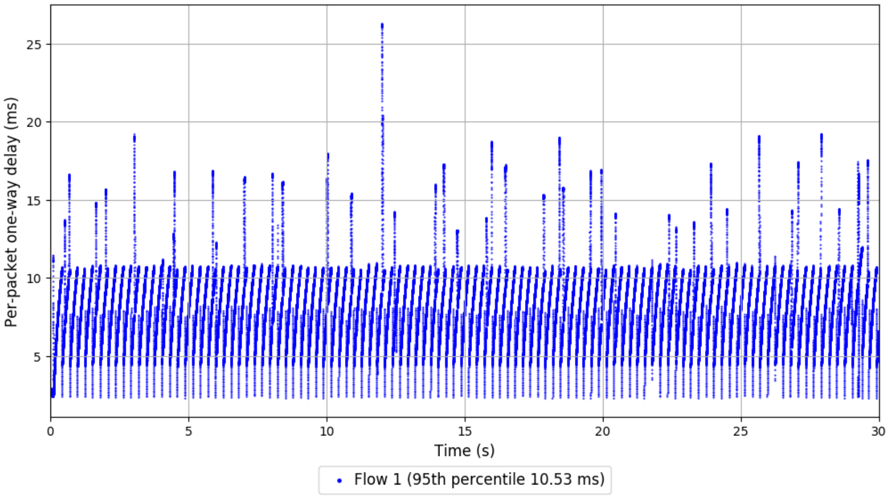




```
Run 5: Statistics of LEDBAT

Start at: 2018-08-01 17:47:08
End at: 2018-08-01 17:47:38
Local clock offset: -2.838 ms
Remote clock offset: -2.111 ms

# Below is generated by plot.py at 2018-08-01 19:41:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.55 Mbit/s
95th percentile per-packet one-way delay: 10.534 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 94.55 Mbit/s
95th percentile per-packet one-way delay: 10.534 ms
Loss rate: 0.07%
```

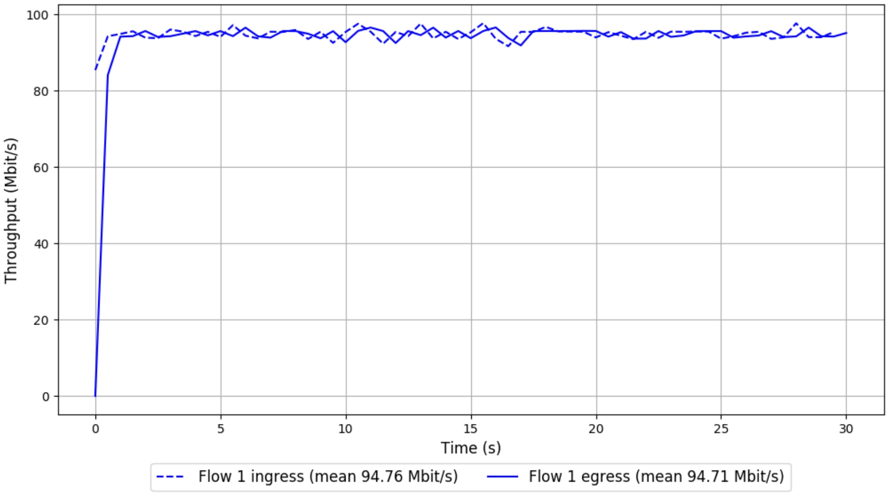
Run 5: Report of LEDBAT — Data Link

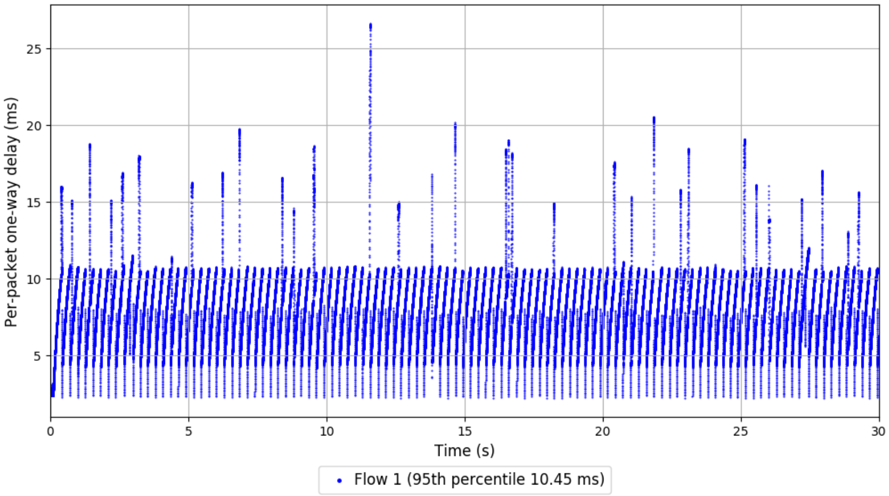




```
Run 6: Statistics of LEDBAT

Start at: 2018-08-01 18:06:10
End at: 2018-08-01 18:06:40
Local clock offset: -3.18 ms
Remote clock offset: -2.402 ms

# Below is generated by plot.py at 2018-08-01 19:41:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.71 Mbit/s
95th percentile per-packet one-way delay: 10.445 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 94.71 Mbit/s
95th percentile per-packet one-way delay: 10.445 ms
Loss rate: 0.07%
```

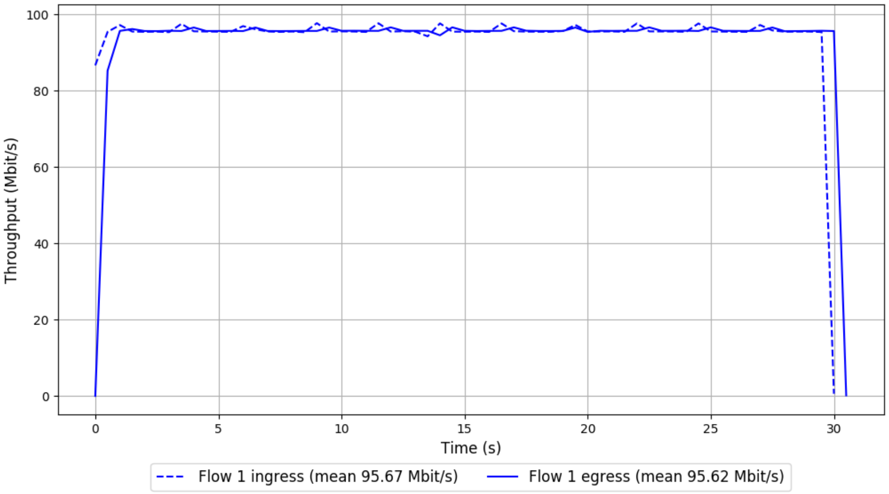
Run 6: Report of LEDBAT — Data Link

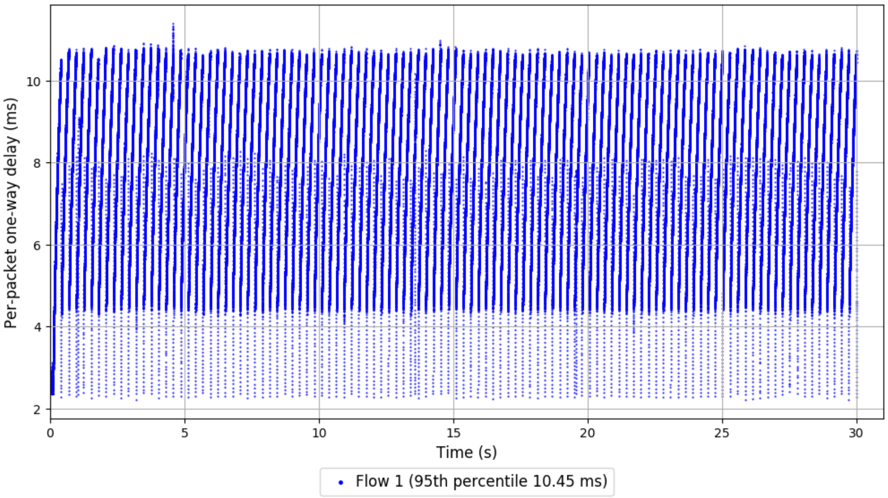




```
Run 7: Statistics of LEDBAT

Start at: 2018-08-01 18:25:11
End at: 2018-08-01 18:25:41
Local clock offset: -3.097 ms
Remote clock offset: -3.126 ms

# Below is generated by plot.py at 2018-08-01 19:42:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 10.447 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 10.447 ms
Loss rate: 0.07%
```

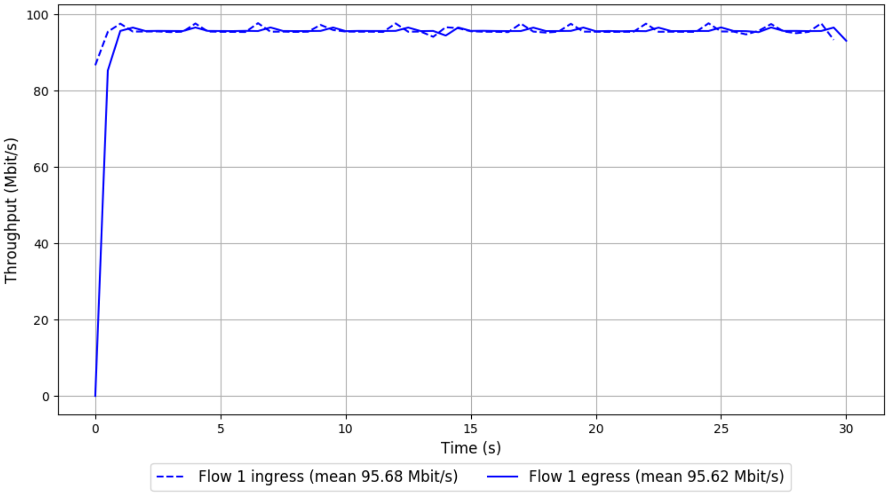
Run 7: Report of LEDBAT — Data Link

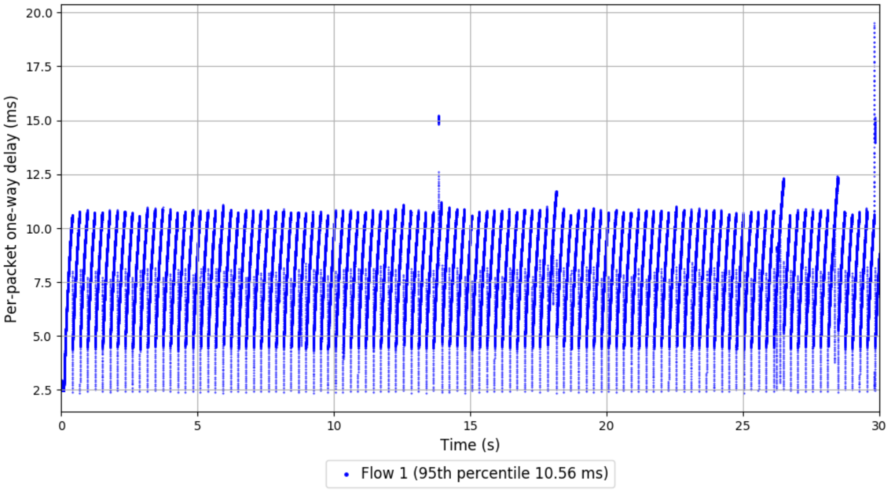




```
Run 8: Statistics of LEDBAT

Start at: 2018-08-01 18:44:14
End at: 2018-08-01 18:44:44
Local clock offset: -2.632 ms
Remote clock offset: -2.099 ms

# Below is generated by plot.py at 2018-08-01 19:42:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 10.561 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 10.561 ms
Loss rate: 0.08%
```

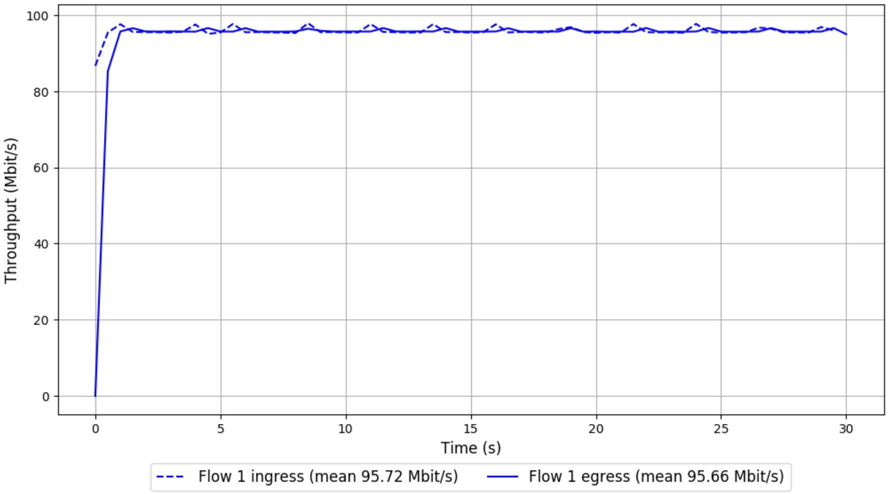
Run 8: Report of LEDBAT — Data Link

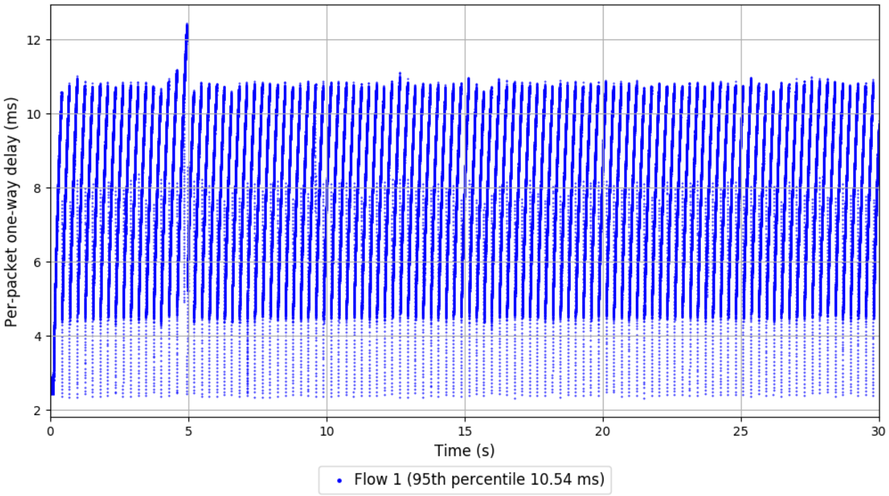




```
Run 9: Statistics of LEDBAT

Start at: 2018-08-01 19:03:17
End at: 2018-08-01 19:03:47
Local clock offset: -3.186 ms
Remote clock offset: -1.216 ms

# Below is generated by plot.py at 2018-08-01 19:42:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.66 Mbit/s
95th percentile per-packet one-way delay: 10.536 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 95.66 Mbit/s
95th percentile per-packet one-way delay: 10.536 ms
Loss rate: 0.08%
```

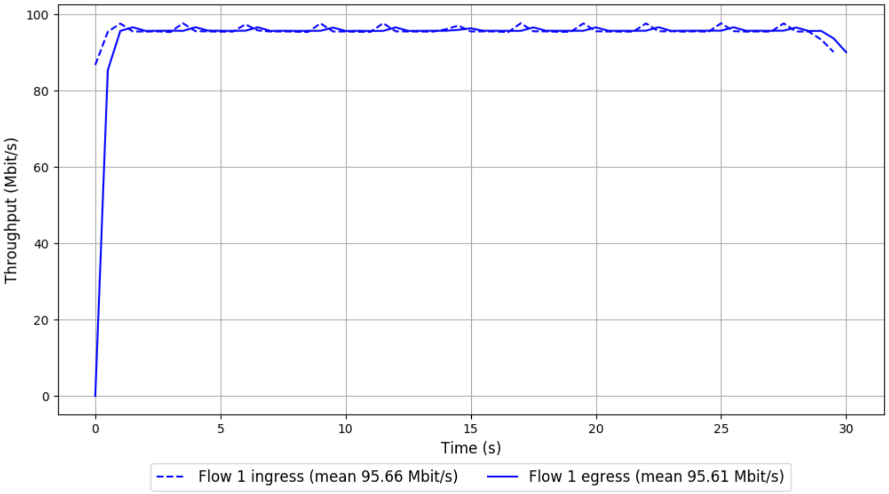
Run 9: Report of LEDBAT — Data Link

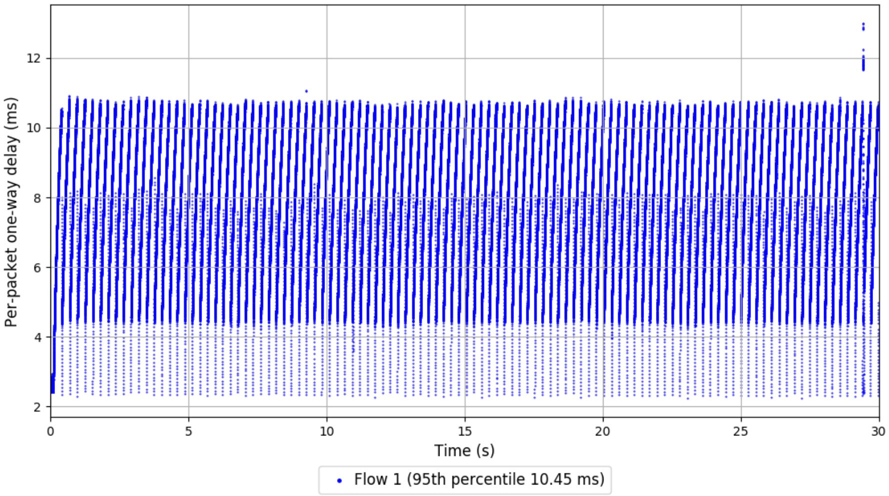




```
Run 10: Statistics of LEDBAT

Start at: 2018-08-01 19:22:20
End at: 2018-08-01 19:22:50
Local clock offset: -3.38 ms
Remote clock offset: -1.622 ms

# Below is generated by plot.py at 2018-08-01 19:42:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.61 Mbit/s
95th percentile per-packet one-way delay: 10.450 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 95.61 Mbit/s
95th percentile per-packet one-way delay: 10.450 ms
Loss rate: 0.07%
```

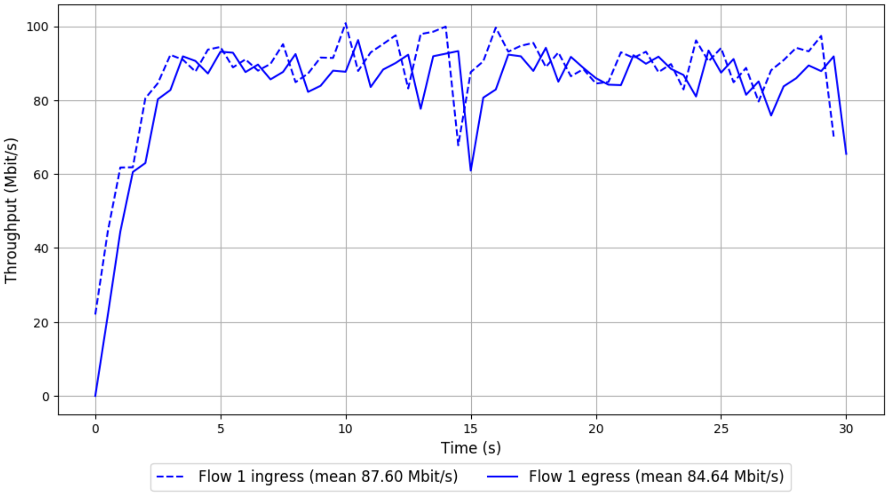
Run 10: Report of LEDBAT — Data Link

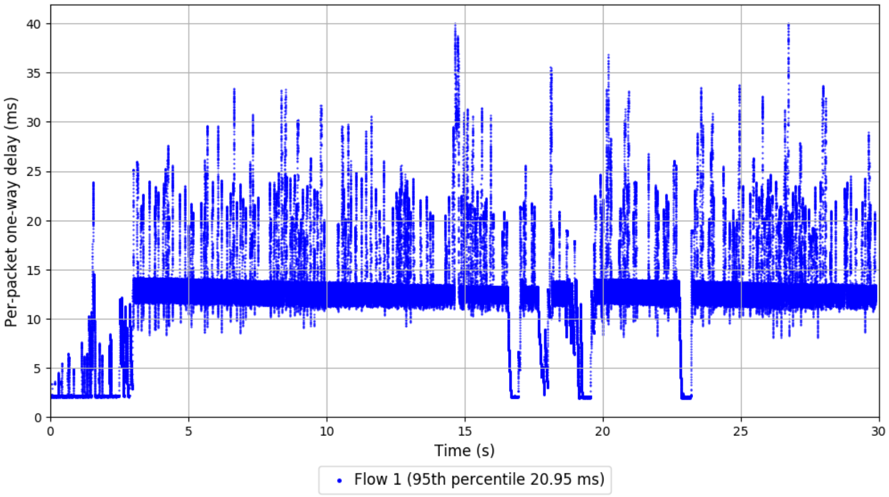




```
Run 1: Statistics of PCC-Allegro

Start at: 2018-08-01 16:22:21
End at: 2018-08-01 16:22:51
Local clock offset: -6.199 ms
Remote clock offset: -1.75 ms

# Below is generated by plot.py at 2018-08-01 19:42:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.64 Mbit/s
95th percentile per-packet one-way delay: 20.945 ms
Loss rate: 3.41%
-- Flow 1:
Average throughput: 84.64 Mbit/s
95th percentile per-packet one-way delay: 20.945 ms
Loss rate: 3.41%
```

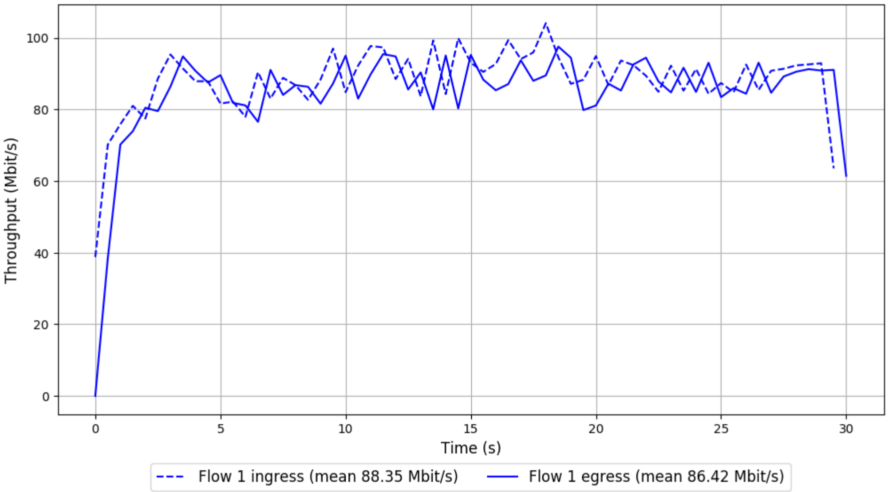
Run 1: Report of PCC-Allegro — Data Link

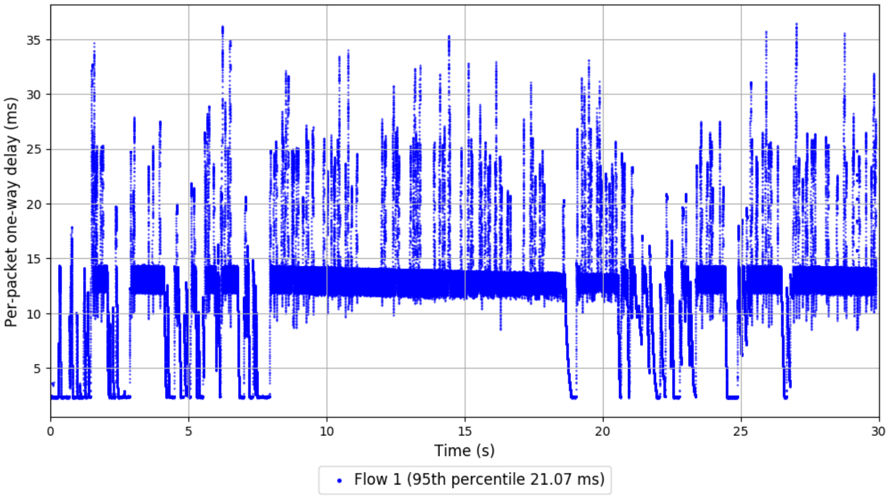




```
Run 2: Statistics of PCC-Allegro

Start at: 2018-08-01 16:41:17
End at: 2018-08-01 16:41:48
Local clock offset: -3.05 ms
Remote clock offset: -1.826 ms

# Below is generated by plot.py at 2018-08-01 19:42:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.42 Mbit/s
95th percentile per-packet one-way delay: 21.067 ms
Loss rate: 2.24%
-- Flow 1:
Average throughput: 86.42 Mbit/s
95th percentile per-packet one-way delay: 21.067 ms
Loss rate: 2.24%
```

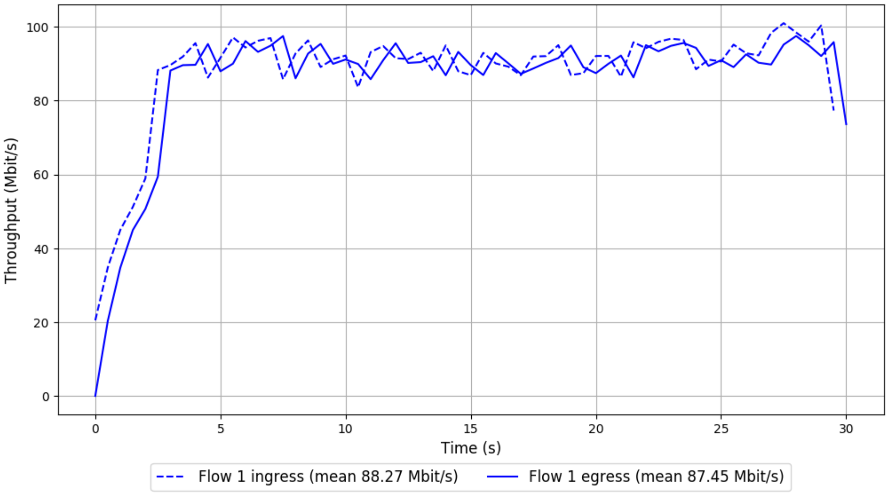
Run 2: Report of PCC-Allegro — Data Link

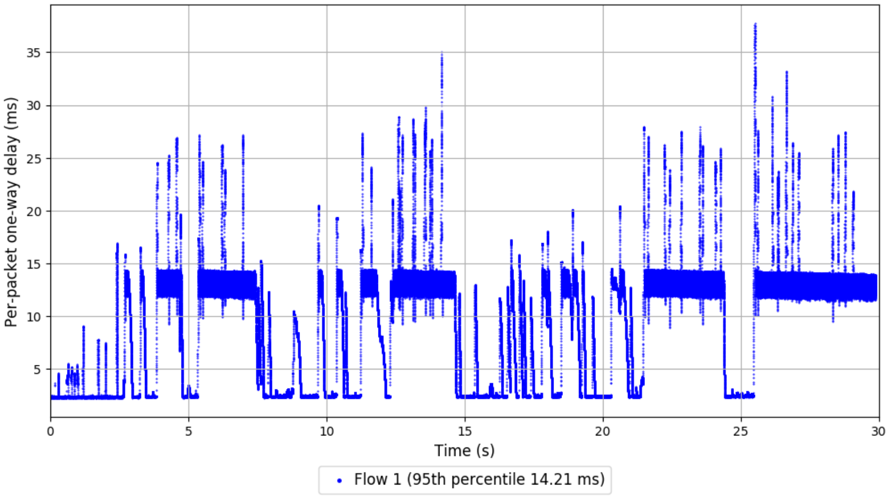




```
Run 3: Statistics of PCC-Allegro

Start at: 2018-08-01 17:00:14
End at: 2018-08-01 17:00:44
Local clock offset: -5.079 ms
Remote clock offset: -2.452 ms

# Below is generated by plot.py at 2018-08-01 19:42:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.45 Mbit/s
95th percentile per-packet one-way delay: 14.207 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 87.45 Mbit/s
95th percentile per-packet one-way delay: 14.207 ms
Loss rate: 0.96%
```

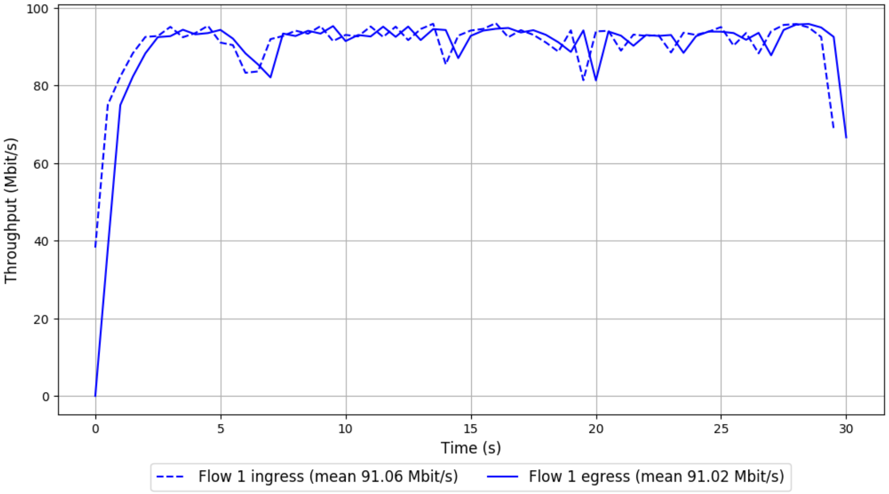
Run 3: Report of PCC-Allegro — Data Link

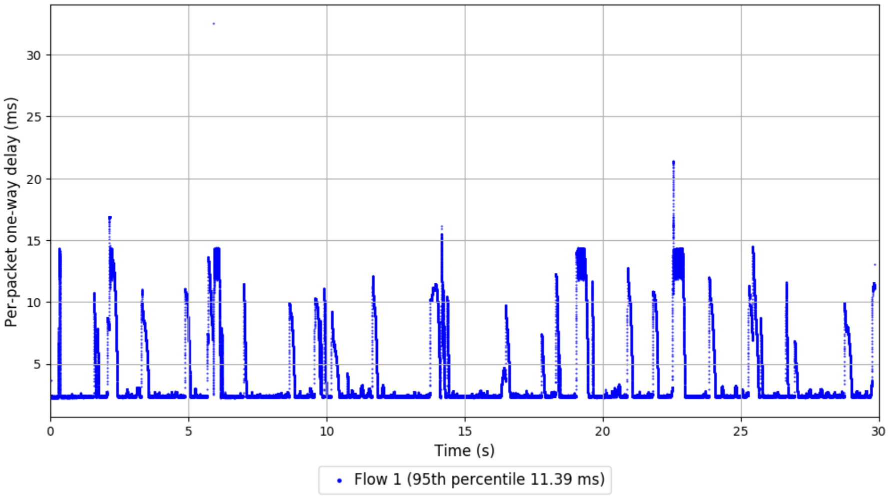




```
Run 4: Statistics of PCC-Allegro

Start at: 2018-08-01 17:19:15
End at: 2018-08-01 17:19:45
Local clock offset: -6.857 ms
Remote clock offset: -2.854 ms

# Below is generated by plot.py at 2018-08-01 19:43:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.02 Mbit/s
95th percentile per-packet one-way delay: 11.391 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 91.02 Mbit/s
95th percentile per-packet one-way delay: 11.391 ms
Loss rate: 0.06%
```

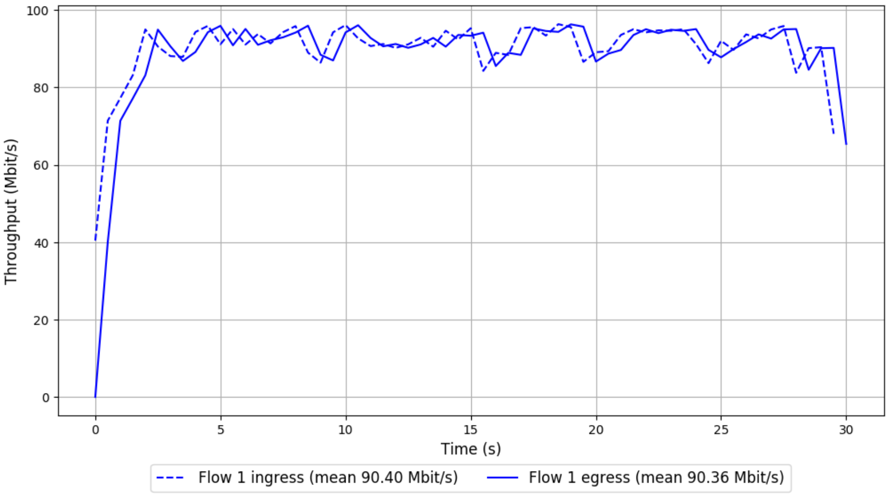
Run 4: Report of PCC-Allegro — Data Link

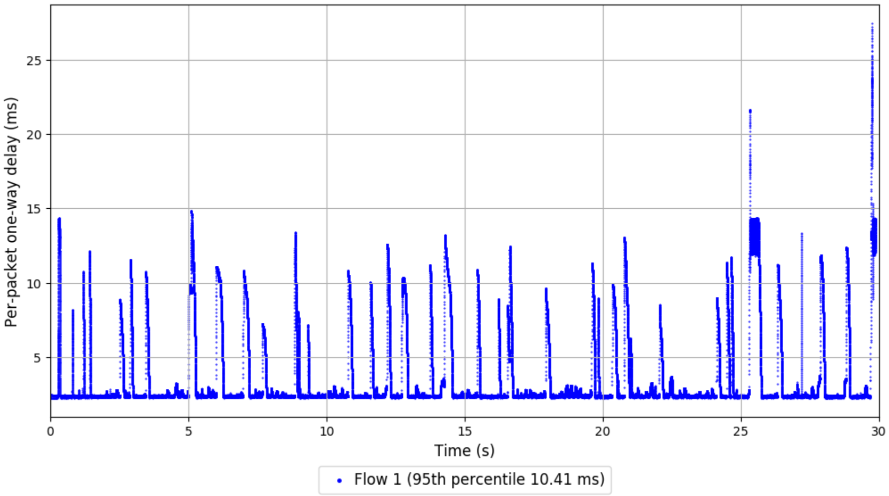




```
Run 5: Statistics of PCC-Allegro

Start at: 2018-08-01 17:38:17
End at: 2018-08-01 17:38:47
Local clock offset: -3.476 ms
Remote clock offset: -2.361 ms

# Below is generated by plot.py at 2018-08-01 19:43:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.36 Mbit/s
95th percentile per-packet one-way delay: 10.415 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 90.36 Mbit/s
95th percentile per-packet one-way delay: 10.415 ms
Loss rate: 0.07%
```

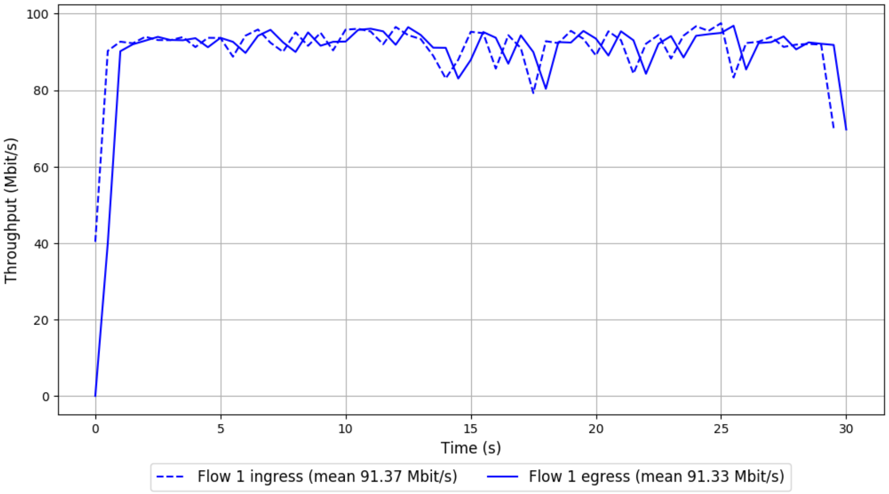
Run 5: Report of PCC-Allegro — Data Link

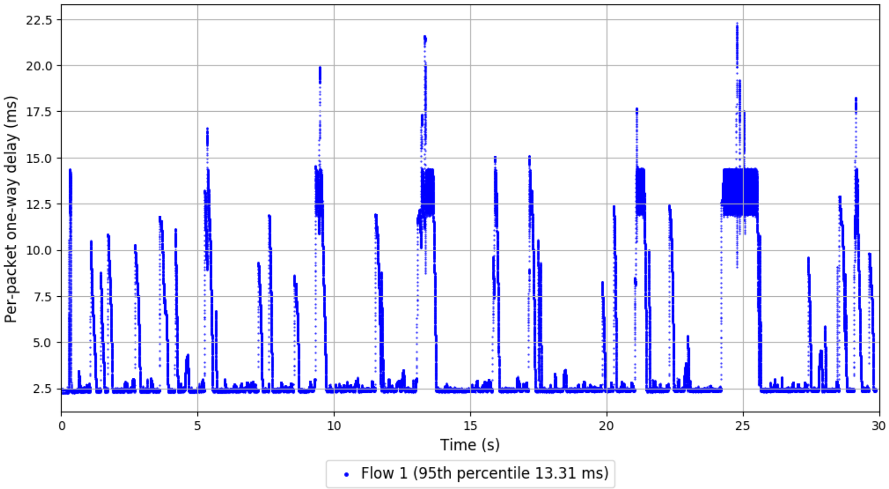




```
Run 6: Statistics of PCC-Allegro

Start at: 2018-08-01 17:57:19
End at: 2018-08-01 17:57:49
Local clock offset: -2.94 ms
Remote clock offset: -1.771 ms

# Below is generated by plot.py at 2018-08-01 19:43:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.33 Mbit/s
95th percentile per-packet one-way delay: 13.306 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 91.33 Mbit/s
95th percentile per-packet one-way delay: 13.306 ms
Loss rate: 0.06%
```

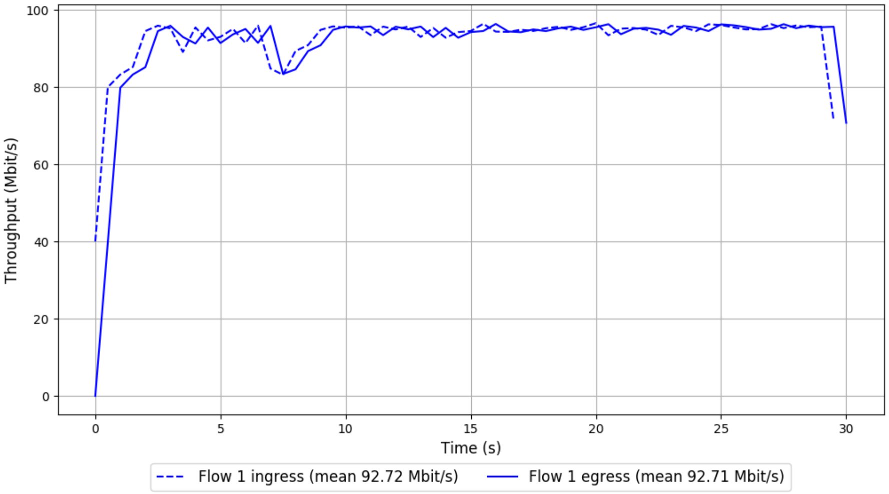
Run 6: Report of PCC-Allegro — Data Link

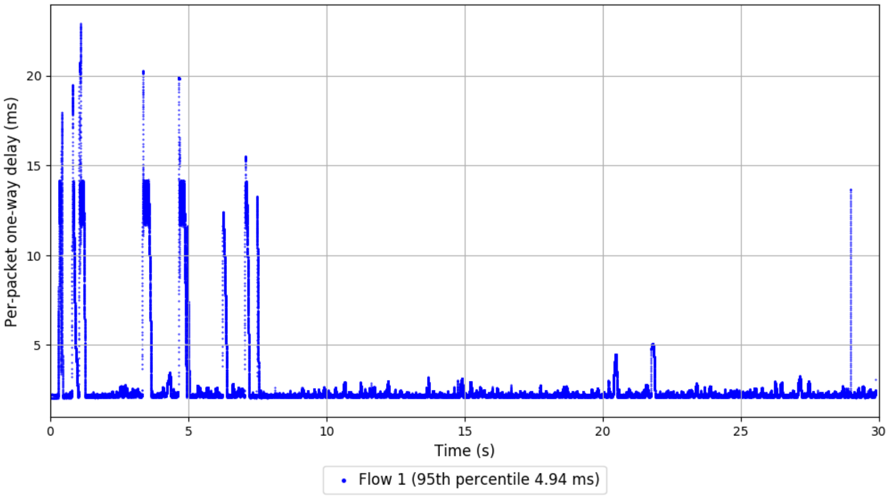




```
Run 7: Statistics of PCC-Allegro

Start at: 2018-08-01 18:16:20
End at: 2018-08-01 18:16:50
Local clock offset: -3.381 ms
Remote clock offset: -2.965 ms

# Below is generated by plot.py at 2018-08-01 19:43:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.71 Mbit/s
95th percentile per-packet one-way delay: 4.939 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 92.71 Mbit/s
95th percentile per-packet one-way delay: 4.939 ms
Loss rate: 0.02%
```

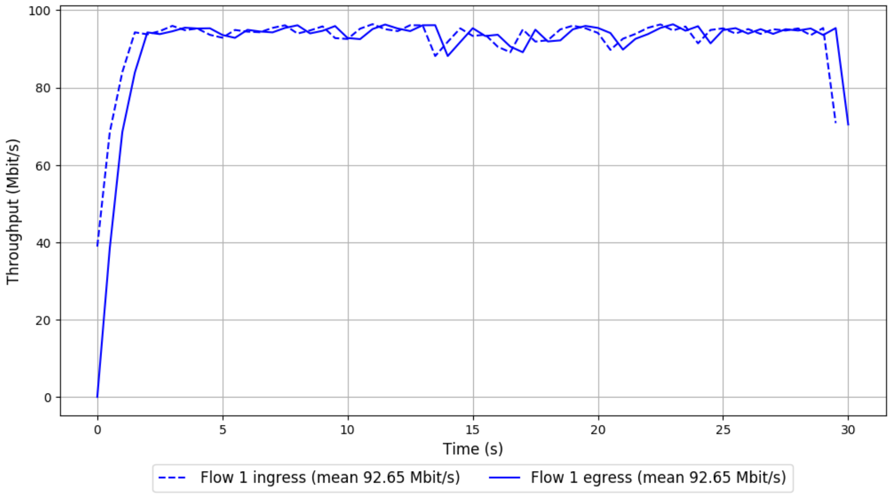
Run 7: Report of PCC-Allegro — Data Link

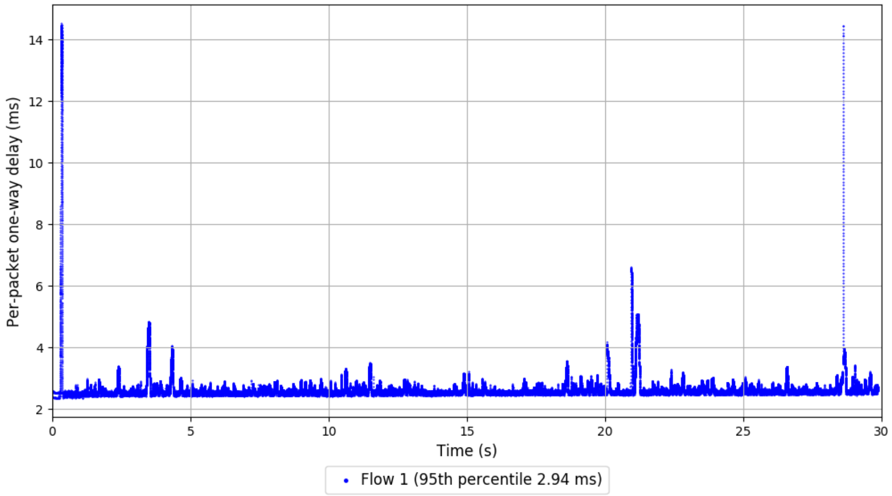




```
Run 8: Statistics of PCC-Allegro

Start at: 2018-08-01 18:35:23
End at: 2018-08-01 18:35:53
Local clock offset: -2.823 ms
Remote clock offset: -3.139 ms

# Below is generated by plot.py at 2018-08-01 19:43:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.65 Mbit/s
95th percentile per-packet one-way delay: 2.939 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 92.65 Mbit/s
95th percentile per-packet one-way delay: 2.939 ms
Loss rate: 0.02%
```

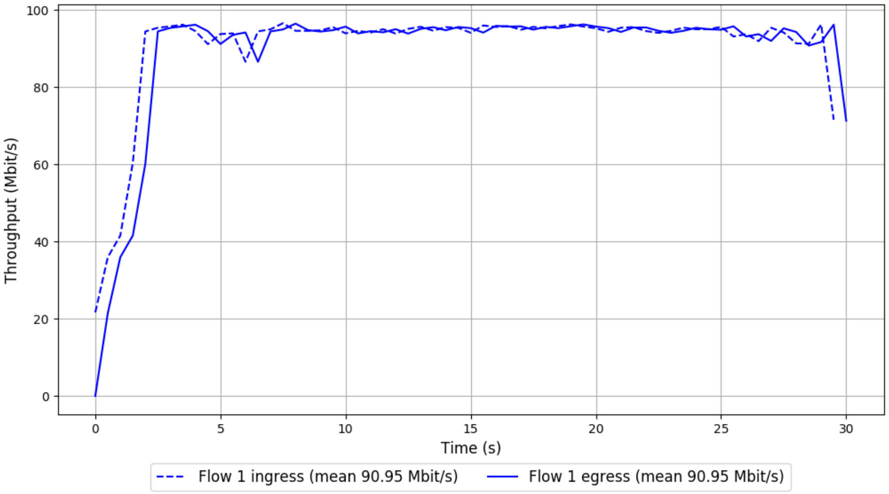
Run 8: Report of PCC-Allegro — Data Link

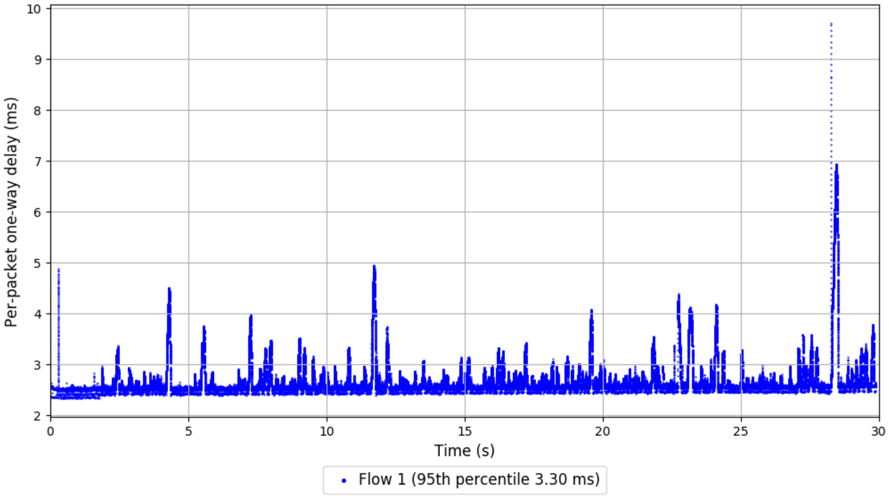




```
Run 9: Statistics of PCC-Allegro

Start at: 2018-08-01 18:54:26
End at: 2018-08-01 18:54:56
Local clock offset: -2.692 ms
Remote clock offset: -1.583 ms

# Below is generated by plot.py at 2018-08-01 19:43:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.95 Mbit/s
95th percentile per-packet one-way delay: 3.296 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 90.95 Mbit/s
95th percentile per-packet one-way delay: 3.296 ms
Loss rate: 0.02%
```

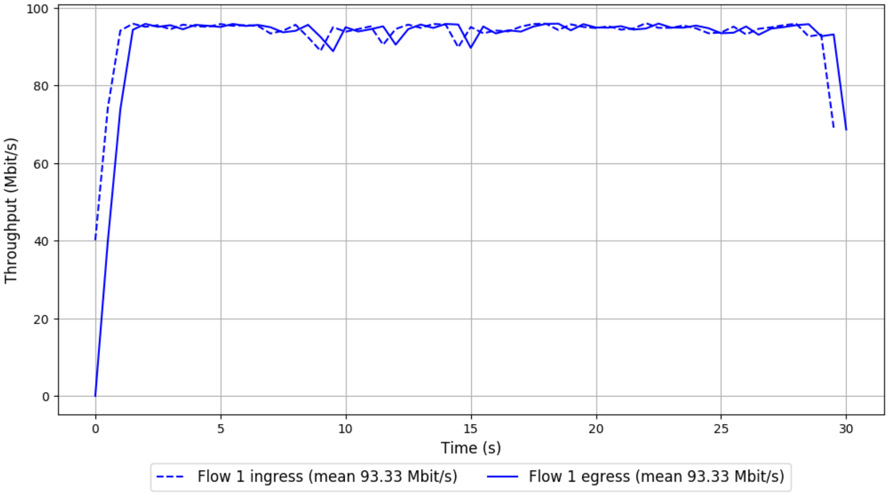
Run 9: Report of PCC-Allegro — Data Link

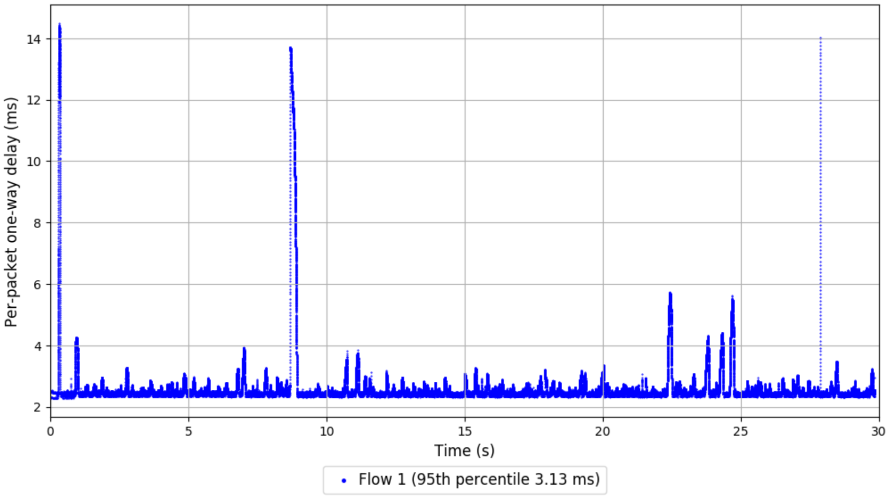




```
Run 10: Statistics of PCC-Allegro

Start at: 2018-08-01 19:13:29
End at: 2018-08-01 19:13:59
Local clock offset: -3.371 ms
Remote clock offset: -1.438 ms

# Below is generated by plot.py at 2018-08-01 19:43:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.33 Mbit/s
95th percentile per-packet one-way delay: 3.133 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 93.33 Mbit/s
95th percentile per-packet one-way delay: 3.133 ms
Loss rate: 0.02%
```

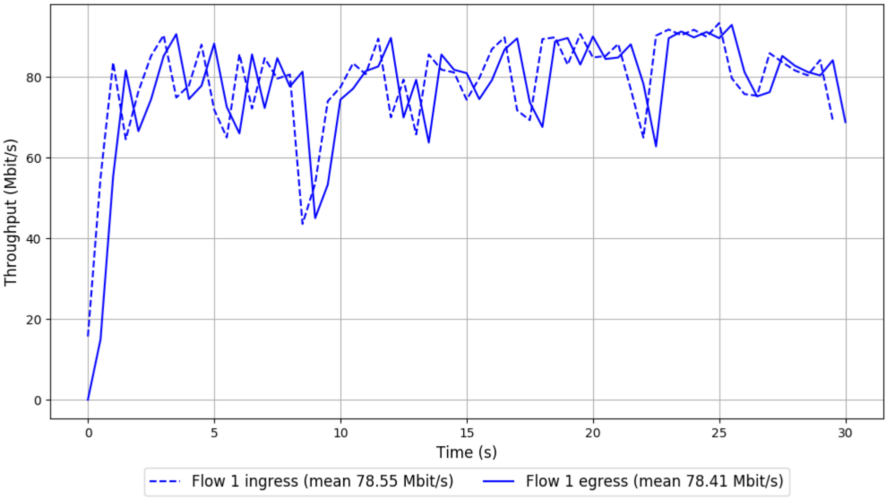
Run 10: Report of PCC-Allegro — Data Link

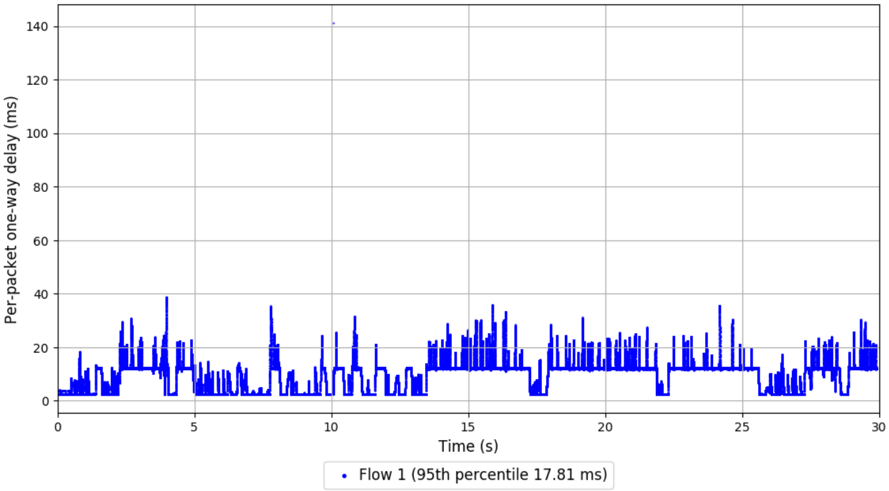




```
Run 1: Statistics of PCC-Expr

Start at: 2018-08-01 16:18:55
End at: 2018-08-01 16:19:26
Local clock offset: -6.194 ms
Remote clock offset: -1.607 ms

# Below is generated by plot.py at 2018-08-01 19:44:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.41 Mbit/s
95th percentile per-packet one-way delay: 17.811 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 78.41 Mbit/s
95th percentile per-packet one-way delay: 17.811 ms
Loss rate: 0.21%
```

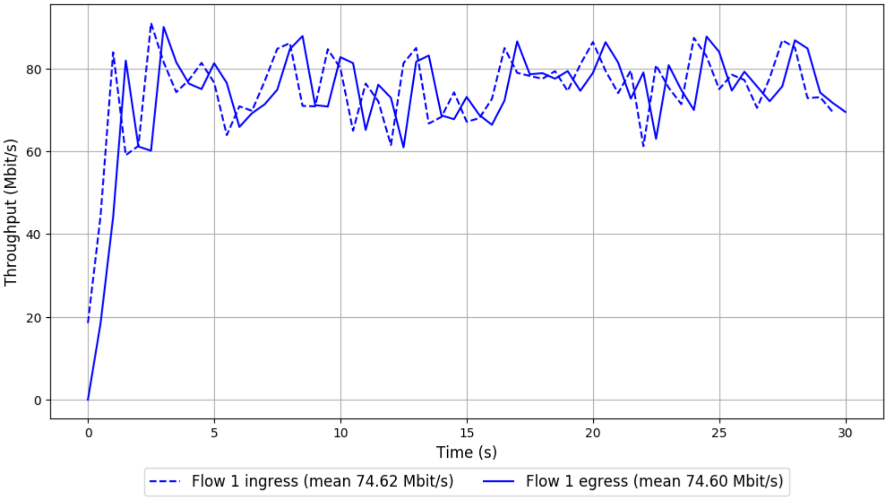
Run 1: Report of PCC-Expr — Data Link

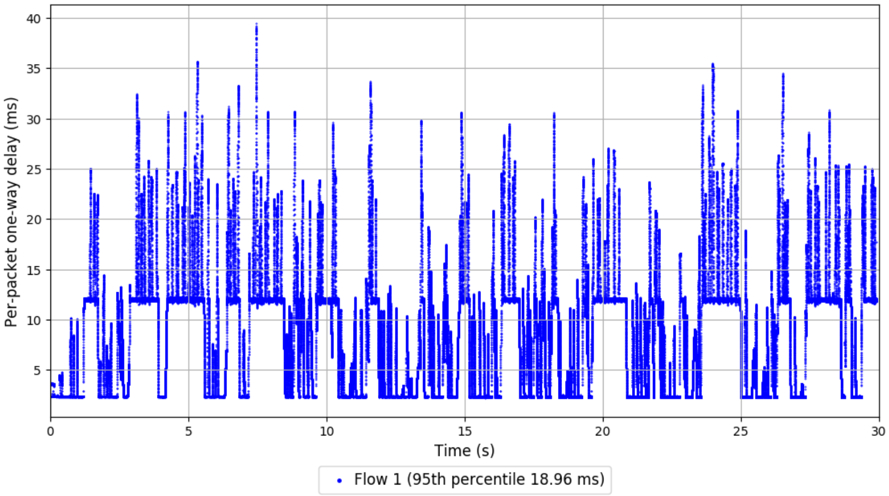




```
Run 2: Statistics of PCC-Expr

Start at: 2018-08-01 16:37:53
End at: 2018-08-01 16:38:23
Local clock offset: -3.35 ms
Remote clock offset: -1.904 ms

# Below is generated by plot.py at 2018-08-01 19:44:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.60 Mbit/s
95th percentile per-packet one-way delay: 18.960 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 74.60 Mbit/s
95th percentile per-packet one-way delay: 18.960 ms
Loss rate: 0.08%
```

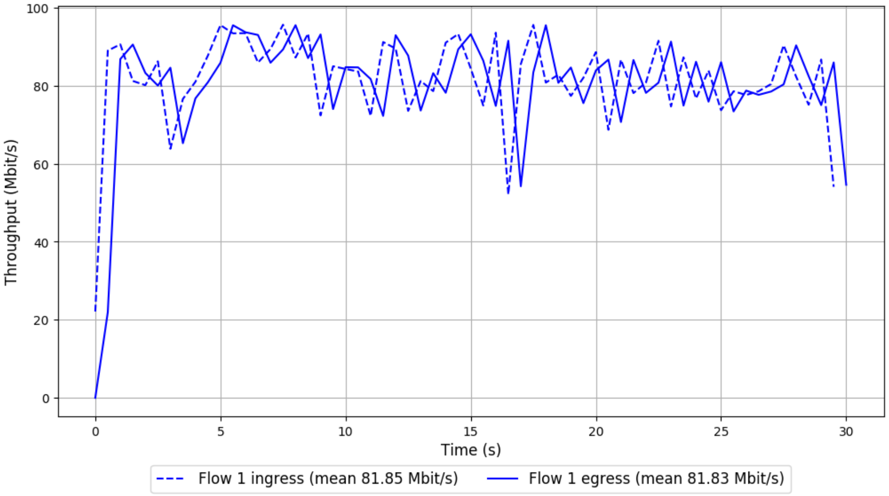
Run 2: Report of PCC-Expr — Data Link

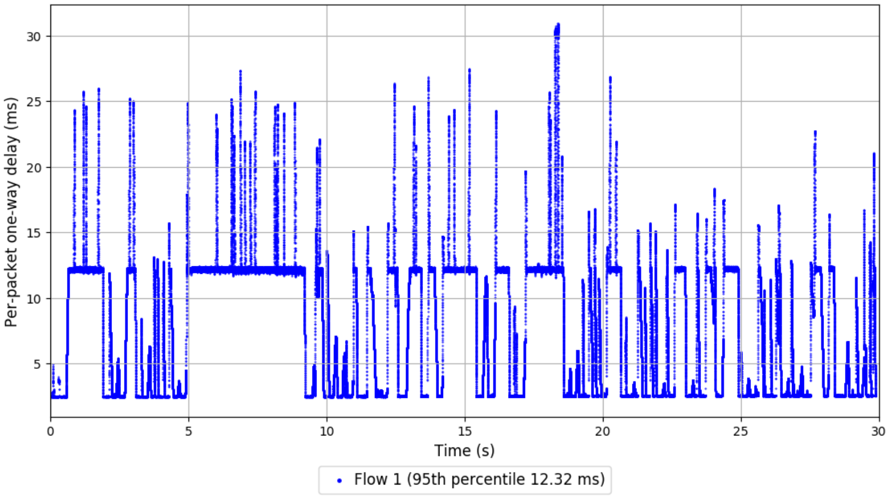




```
Run 3: Statistics of PCC-Expr

Start at: 2018-08-01 16:56:50
End at: 2018-08-01 16:57:20
Local clock offset: -4.164 ms
Remote clock offset: -2.195 ms

# Below is generated by plot.py at 2018-08-01 19:44:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.83 Mbit/s
95th percentile per-packet one-way delay: 12.317 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 81.83 Mbit/s
95th percentile per-packet one-way delay: 12.317 ms
Loss rate: 0.05%
```

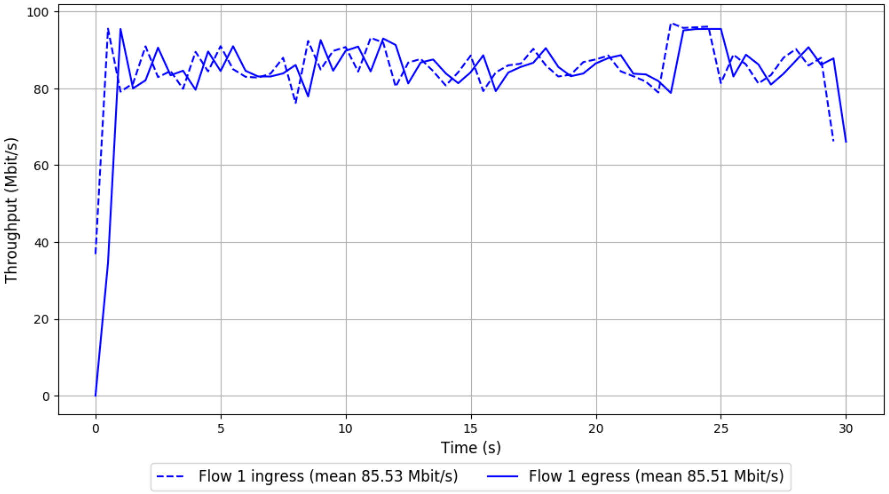
Run 3: Report of PCC-Expr — Data Link

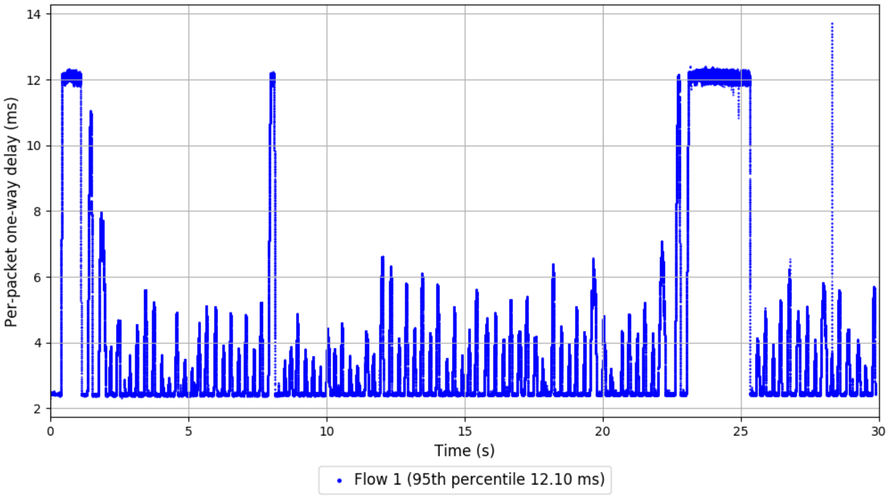




```
Run 4: Statistics of PCC-Expr

Start at: 2018-08-01 17:15:48
End at: 2018-08-01 17:16:18
Local clock offset: -6.743 ms
Remote clock offset: -2.89 ms

# Below is generated by plot.py at 2018-08-01 19:44:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.51 Mbit/s
95th percentile per-packet one-way delay: 12.098 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 85.51 Mbit/s
95th percentile per-packet one-way delay: 12.098 ms
Loss rate: 0.05%
```

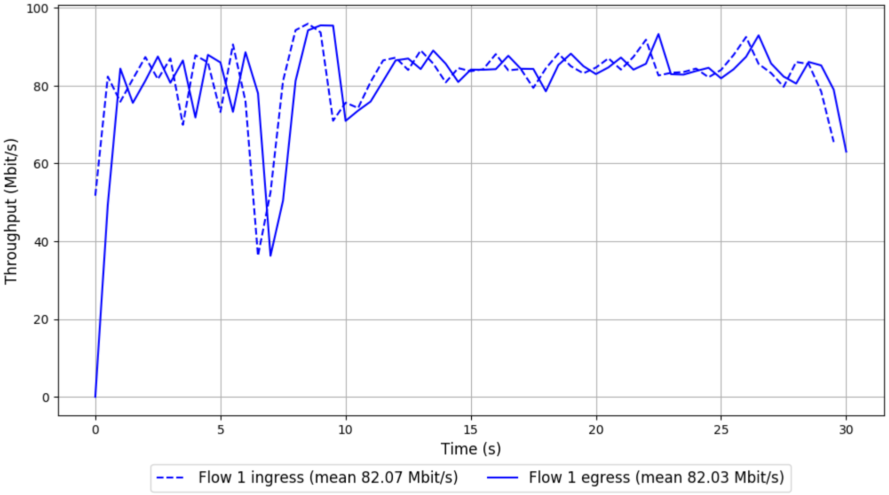
Run 4: Report of PCC-Expr — Data Link

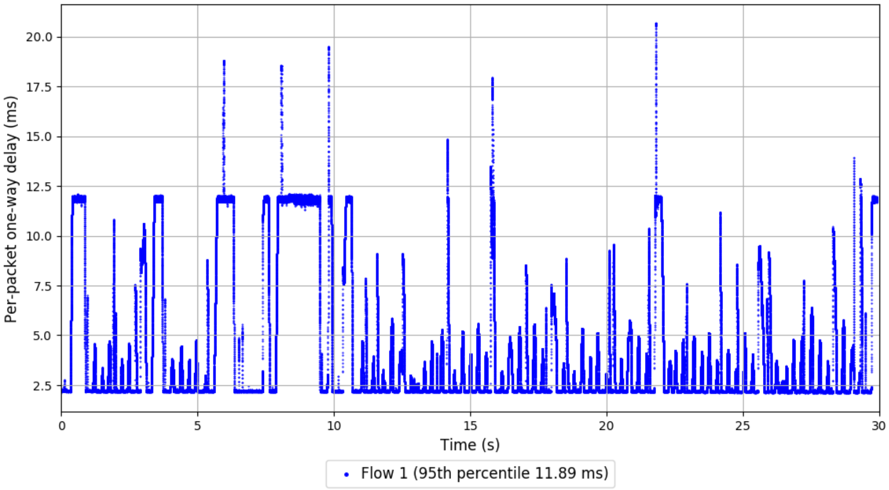




```
Run 5: Statistics of PCC-Expr

Start at: 2018-08-01 17:34:50
End at: 2018-08-01 17:35:20
Local clock offset: -3.945 ms
Remote clock offset: -2.383 ms

# Below is generated by plot.py at 2018-08-01 19:44:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.03 Mbit/s
95th percentile per-packet one-way delay: 11.892 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 82.03 Mbit/s
95th percentile per-packet one-way delay: 11.892 ms
Loss rate: 0.07%
```

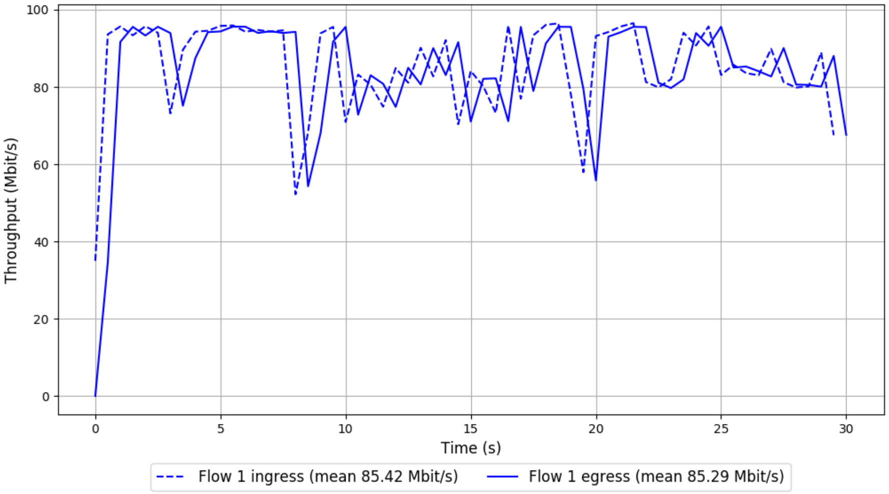
Run 5: Report of PCC-Expr — Data Link

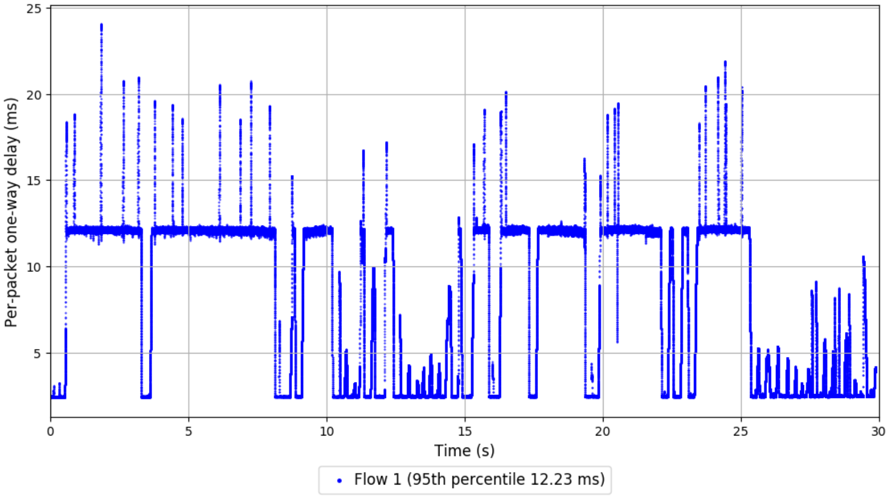




```
Run 6: Statistics of PCC-Expr

Start at: 2018-08-01 17:53:51
End at: 2018-08-01 17:54:21
Local clock offset: -2.692 ms
Remote clock offset: -1.868 ms

# Below is generated by plot.py at 2018-08-01 19:45:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.29 Mbit/s
95th percentile per-packet one-way delay: 12.228 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 85.29 Mbit/s
95th percentile per-packet one-way delay: 12.228 ms
Loss rate: 0.17%
```

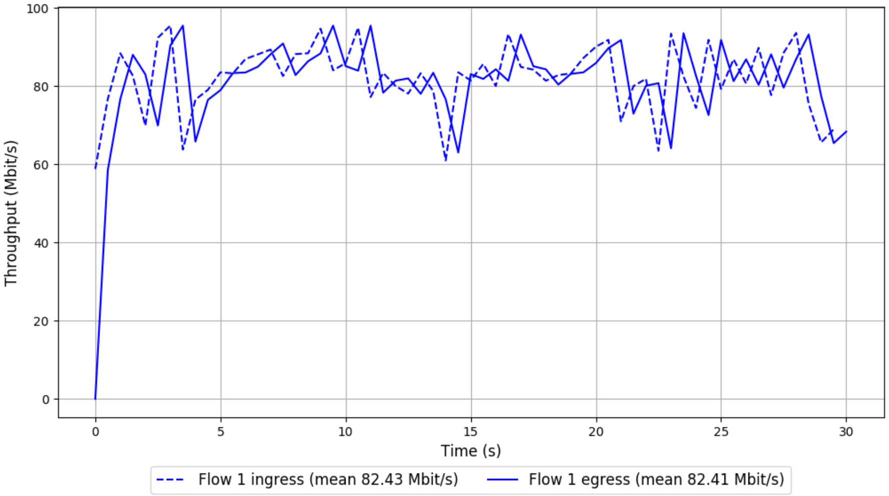
Run 6: Report of PCC-Expr — Data Link

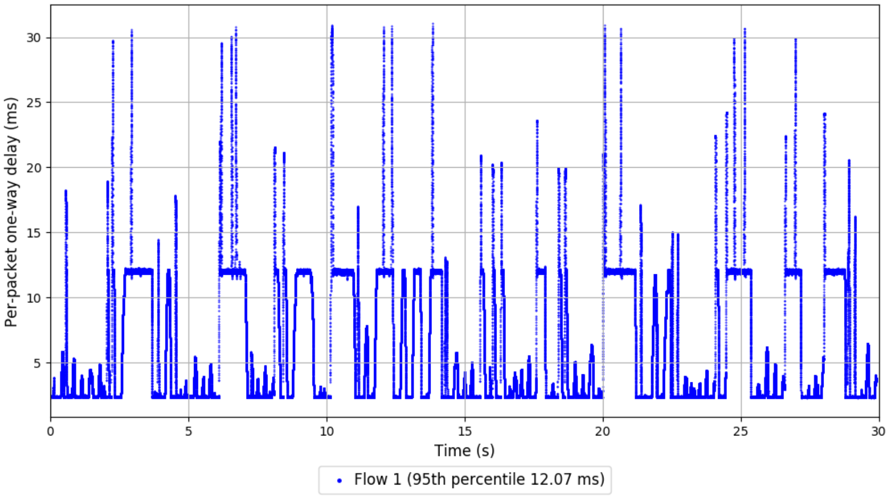




```
Run 7: Statistics of PCC-Expr

Start at: 2018-08-01 18:12:53
End at: 2018-08-01 18:13:23
Local clock offset: -3.204 ms
Remote clock offset: -2.792 ms

# Below is generated by plot.py at 2018-08-01 19:45:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.41 Mbit/s
95th percentile per-packet one-way delay: 12.074 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 82.41 Mbit/s
95th percentile per-packet one-way delay: 12.074 ms
Loss rate: 0.04%
```

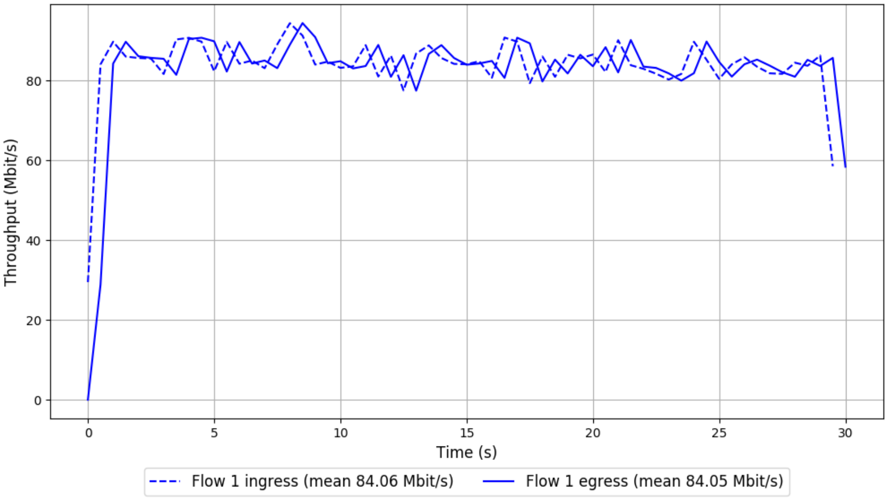
Run 7: Report of PCC-Expr — Data Link

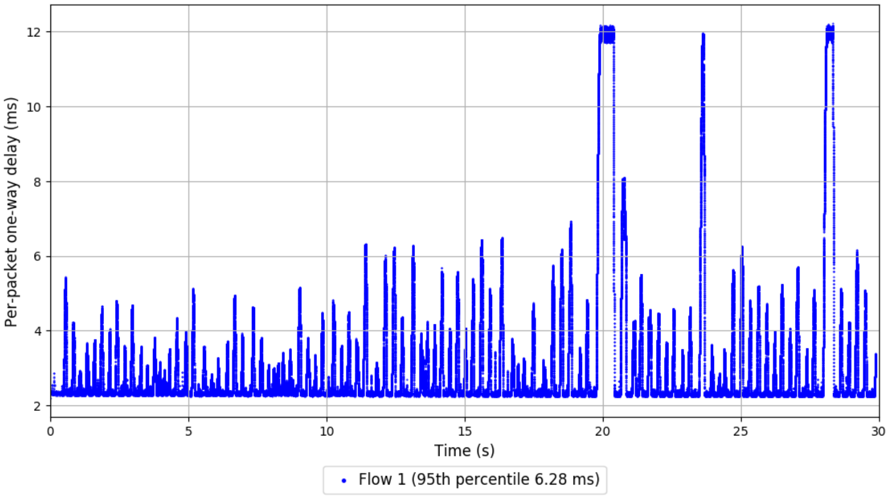




```
Run 8: Statistics of PCC-Expr

Start at: 2018-08-01 18:31:55
End at: 2018-08-01 18:32:25
Local clock offset: -2.963 ms
Remote clock offset: -3.152 ms

# Below is generated by plot.py at 2018-08-01 19:45:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.05 Mbit/s
95th percentile per-packet one-way delay: 6.277 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 84.05 Mbit/s
95th percentile per-packet one-way delay: 6.277 ms
Loss rate: 0.03%
```

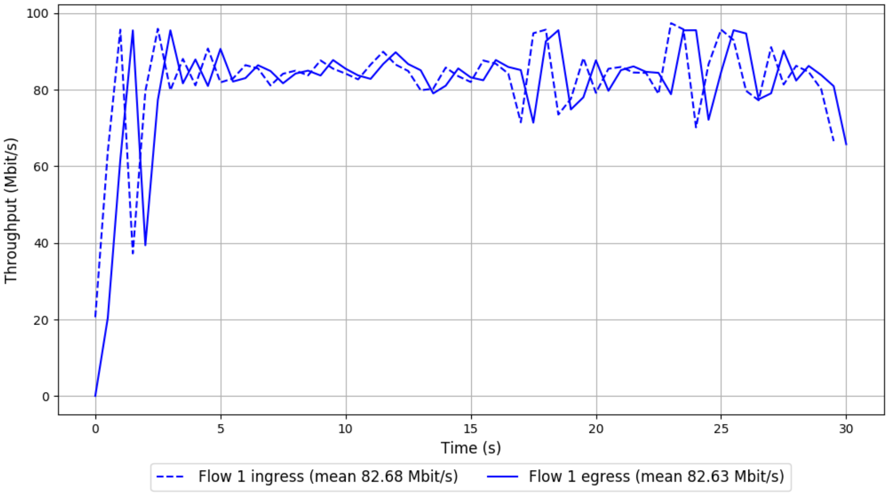
Run 8: Report of PCC-Expr — Data Link

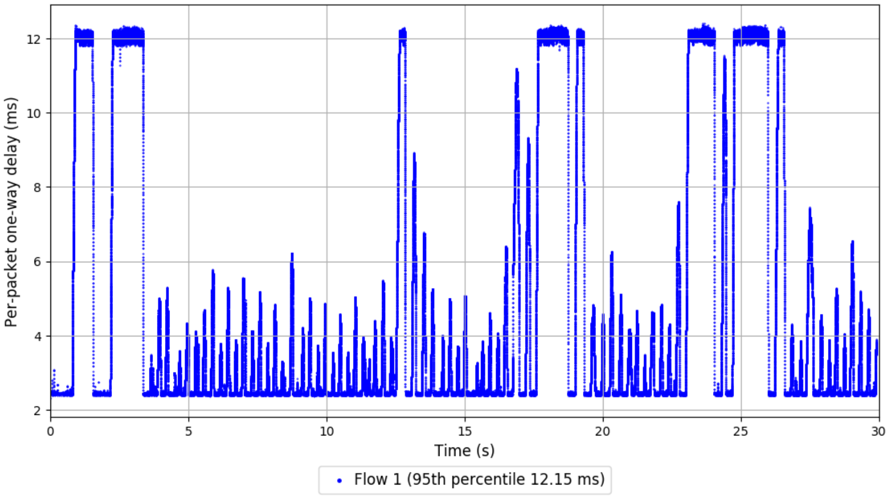




```
Run 9: Statistics of PCC-Expr

Start at: 2018-08-01 18:50:58
End at: 2018-08-01 18:51:28
Local clock offset: -2.572 ms
Remote clock offset: -1.752 ms

# Below is generated by plot.py at 2018-08-01 19:46:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.63 Mbit/s
95th percentile per-packet one-way delay: 12.146 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 82.63 Mbit/s
95th percentile per-packet one-way delay: 12.146 ms
Loss rate: 0.08%
```

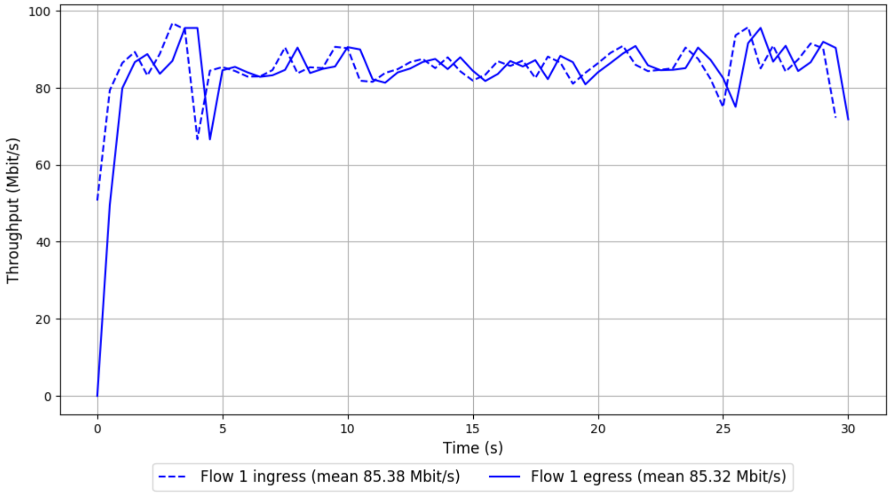
Run 9: Report of PCC-Expr — Data Link

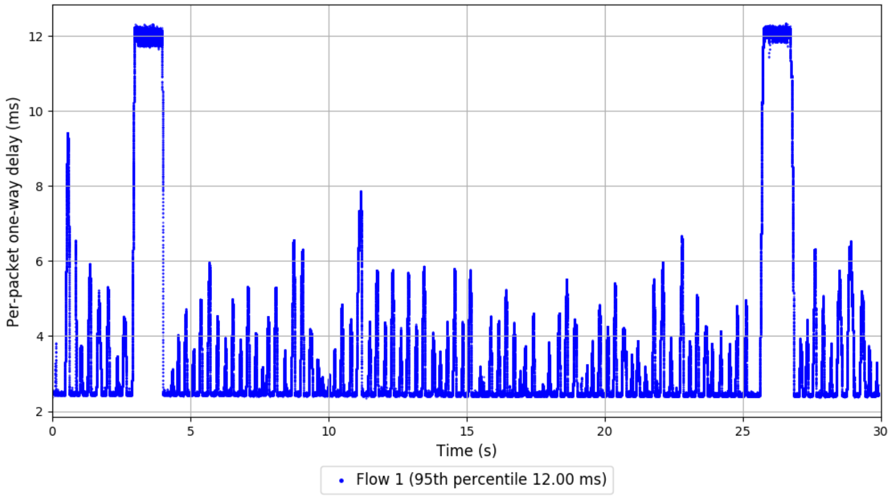




```
Run 10: Statistics of PCC-Expr

Start at: 2018-08-01 19:10:01
End at: 2018-08-01 19:10:31
Local clock offset: -3.328 ms
Remote clock offset: -1.258 ms

# Below is generated by plot.py at 2018-08-01 19:46:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.32 Mbit/s
95th percentile per-packet one-way delay: 11.999 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 85.32 Mbit/s
95th percentile per-packet one-way delay: 11.999 ms
Loss rate: 0.08%
```

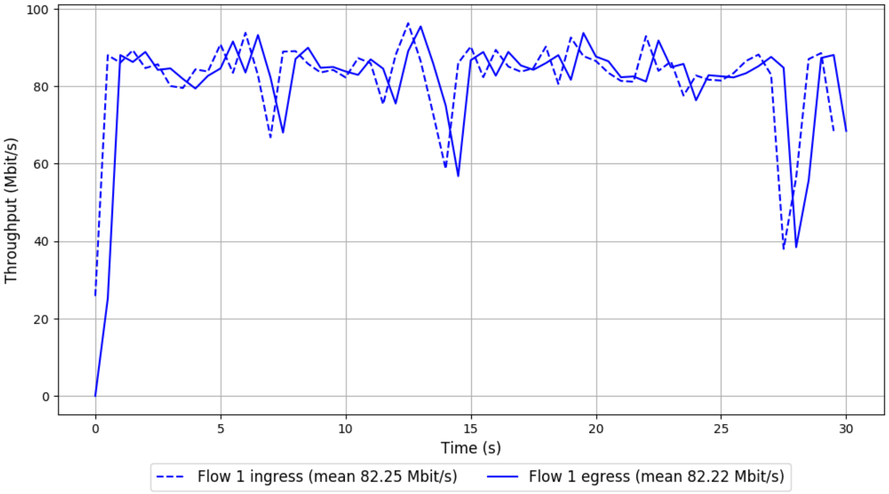
Run 10: Report of PCC-Expr — Data Link

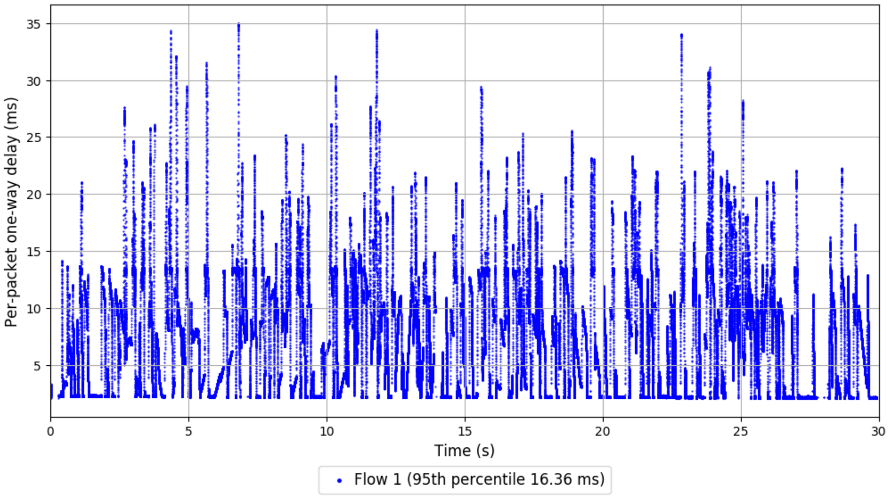




```
Run 1: Statistics of QUIC Cubic

Start at: 2018-08-01 16:25:41
End at: 2018-08-01 16:26:11
Local clock offset: -5.24 ms
Remote clock offset: -1.897 ms

# Below is generated by plot.py at 2018-08-01 19:46:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.22 Mbit/s
95th percentile per-packet one-way delay: 16.355 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 82.22 Mbit/s
95th percentile per-packet one-way delay: 16.355 ms
Loss rate: 0.05%
```

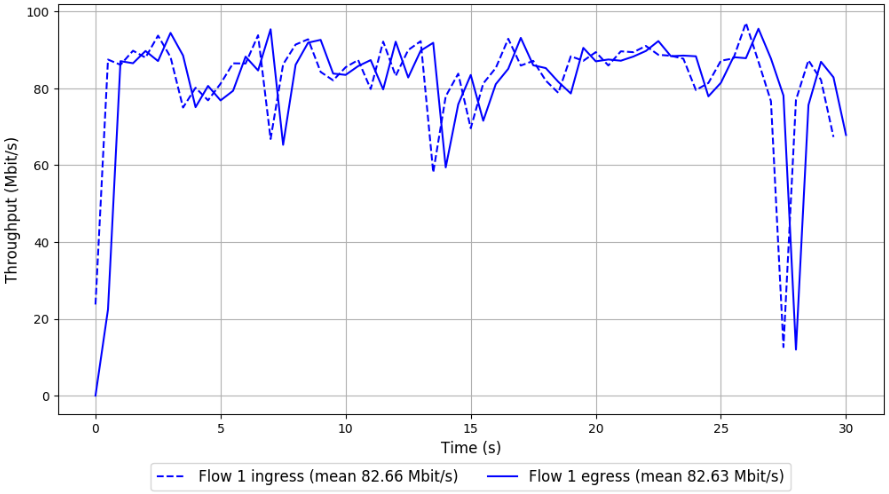
Run 1: Report of QUIC Cubic — Data Link

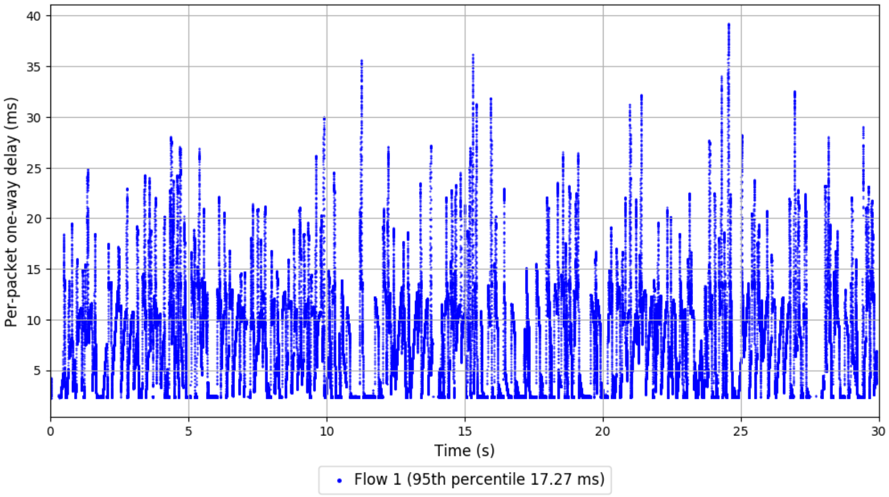




```
Run 2: Statistics of QUIC Cubic

Start at: 2018-08-01 16:44:37
End at: 2018-08-01 16:45:07
Local clock offset: -2.835 ms
Remote clock offset: -1.719 ms

# Below is generated by plot.py at 2018-08-01 19:46:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.63 Mbit/s
95th percentile per-packet one-way delay: 17.275 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 82.63 Mbit/s
95th percentile per-packet one-way delay: 17.275 ms
Loss rate: 0.06%
```

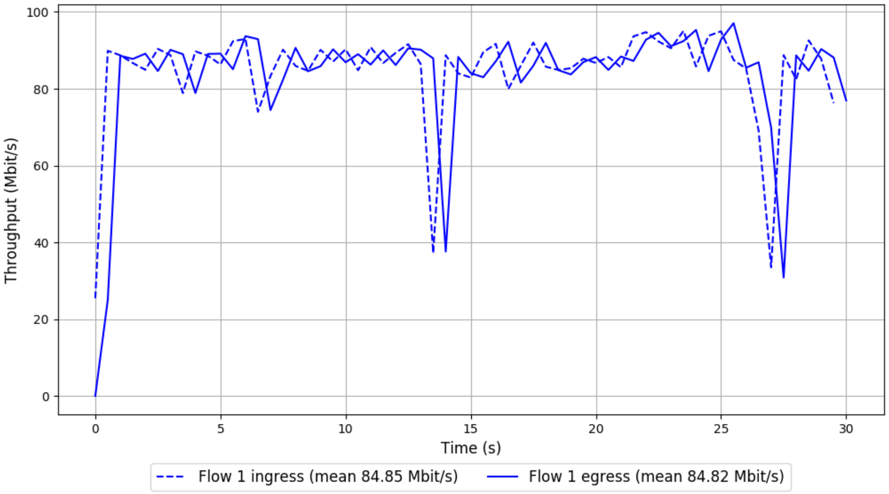
Run 2: Report of QUIC Cubic — Data Link

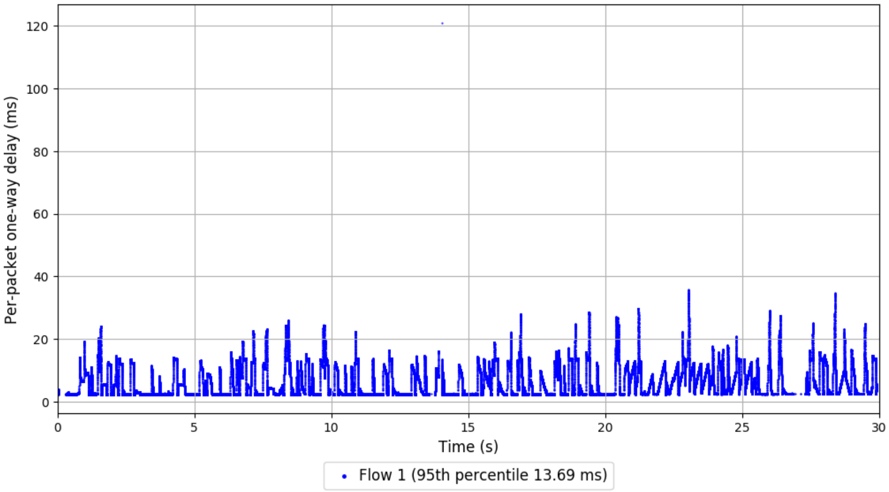




```
Run 3: Statistics of QUIC Cubic

Start at: 2018-08-01 17:03:33
End at: 2018-08-01 17:04:03
Local clock offset: -5.677 ms
Remote clock offset: -2.603 ms

# Below is generated by plot.py at 2018-08-01 19:46:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.82 Mbit/s
95th percentile per-packet one-way delay: 13.689 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 84.82 Mbit/s
95th percentile per-packet one-way delay: 13.689 ms
Loss rate: 0.05%
```

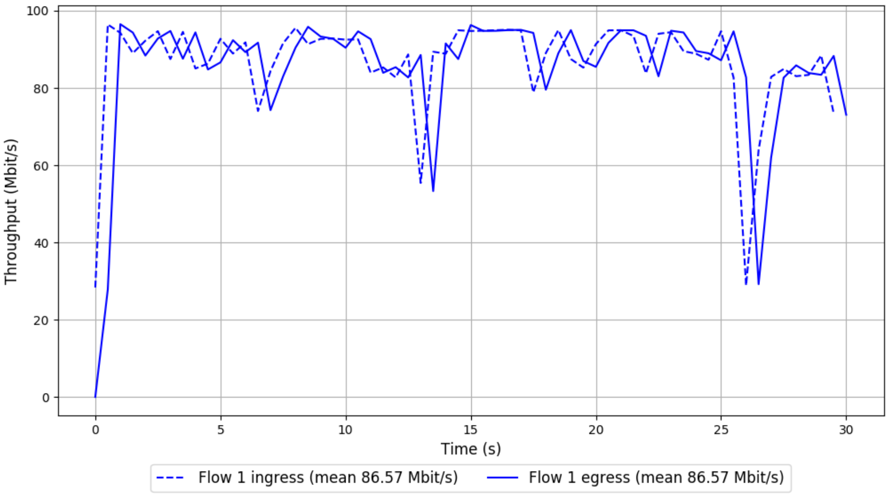
Run 3: Report of QUIC Cubic — Data Link

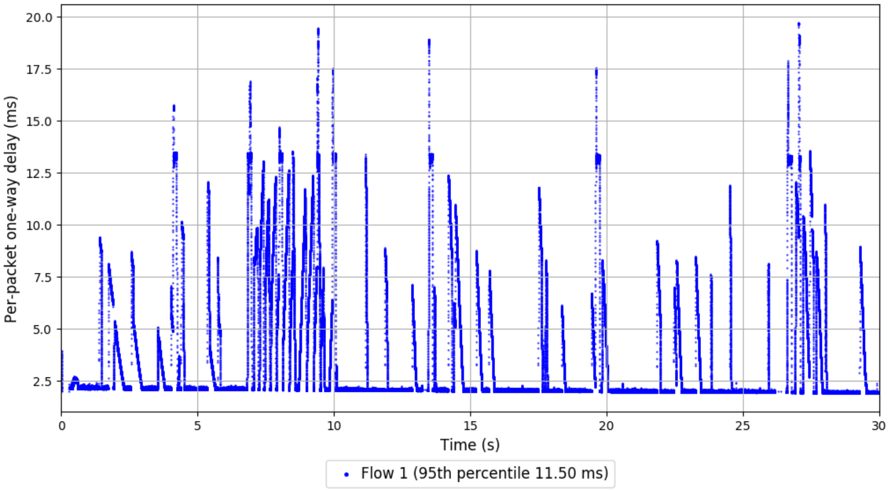




```
Run 4: Statistics of QUIC Cubic

Start at: 2018-08-01 17:22:35
End at: 2018-08-01 17:23:05
Local clock offset: -6.949 ms
Remote clock offset: -2.838 ms

# Below is generated by plot.py at 2018-08-01 19:46:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.57 Mbit/s
95th percentile per-packet one-way delay: 11.500 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 86.57 Mbit/s
95th percentile per-packet one-way delay: 11.500 ms
Loss rate: 0.02%
```

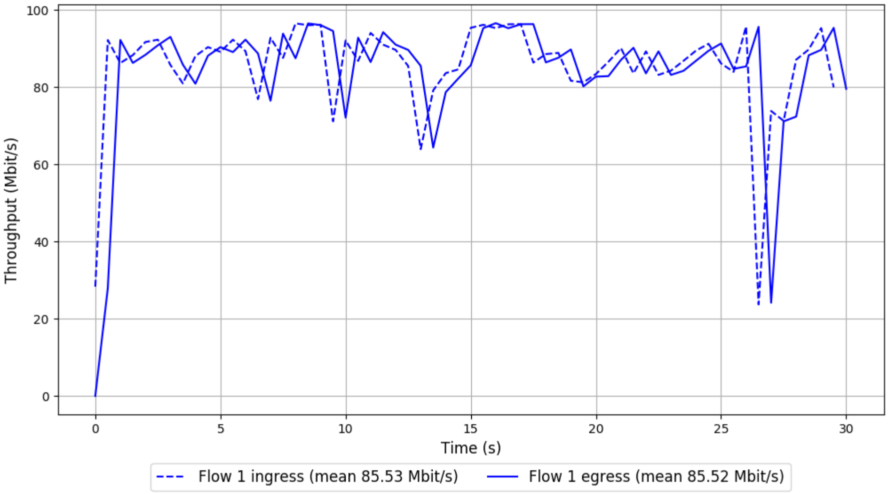
Run 4: Report of QUIC Cubic — Data Link

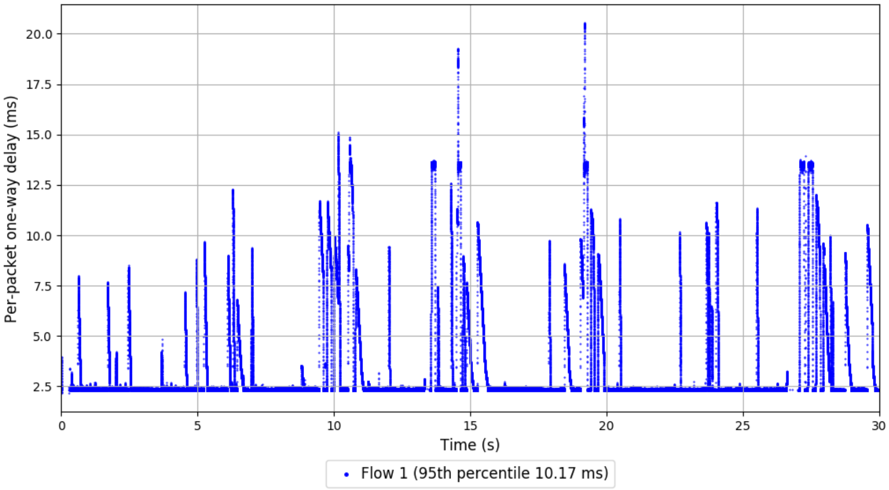




```
Run 5: Statistics of QUIC Cubic

Start at: 2018-08-01 17:41:37
End at: 2018-08-01 17:42:07
Local clock offset: -3.218 ms
Remote clock offset: -2.162 ms

# Below is generated by plot.py at 2018-08-01 19:46:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.52 Mbit/s
95th percentile per-packet one-way delay: 10.168 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 85.52 Mbit/s
95th percentile per-packet one-way delay: 10.168 ms
Loss rate: 0.02%
```

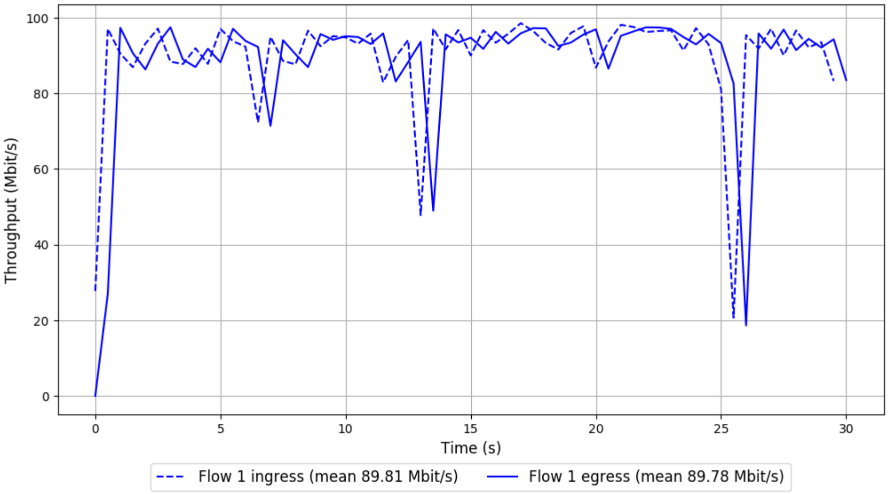
Run 5: Report of QUIC Cubic — Data Link

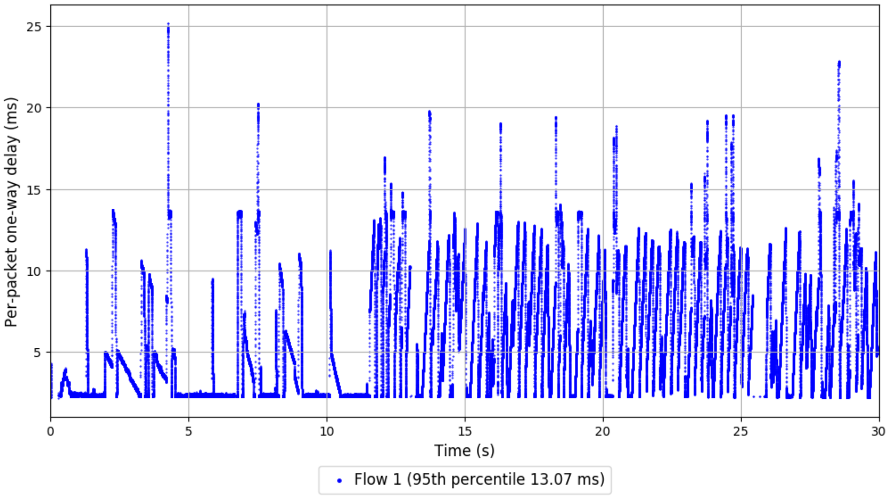




```
Run 6: Statistics of QUIC Cubic

Start at: 2018-08-01 18:00:38
End at: 2018-08-01 18:01:08
Local clock offset: -3.157 ms
Remote clock offset: -1.843 ms

# Below is generated by plot.py at 2018-08-01 19:47:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.78 Mbit/s
95th percentile per-packet one-way delay: 13.073 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 89.78 Mbit/s
95th percentile per-packet one-way delay: 13.073 ms
Loss rate: 0.05%
```

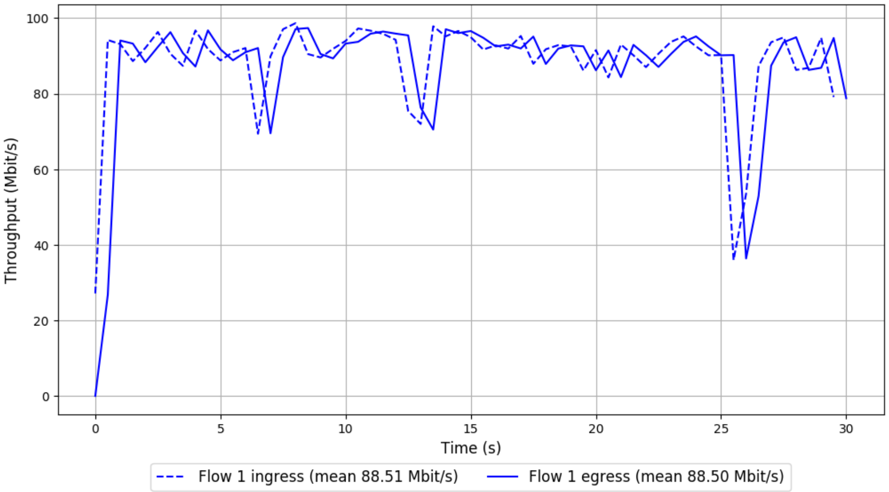
Run 6: Report of QUIC Cubic — Data Link

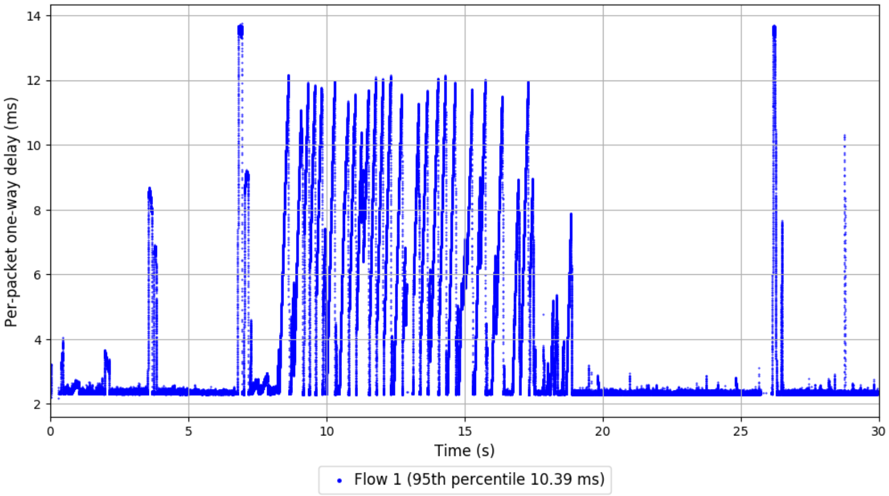




```
Run 7: Statistics of QUIC Cubic

Start at: 2018-08-01 18:19:40
End at: 2018-08-01 18:20:10
Local clock offset: -3.138 ms
Remote clock offset: -2.946 ms

# Below is generated by plot.py at 2018-08-01 19:47:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.50 Mbit/s
95th percentile per-packet one-way delay: 10.392 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 88.50 Mbit/s
95th percentile per-packet one-way delay: 10.392 ms
Loss rate: 0.03%
```

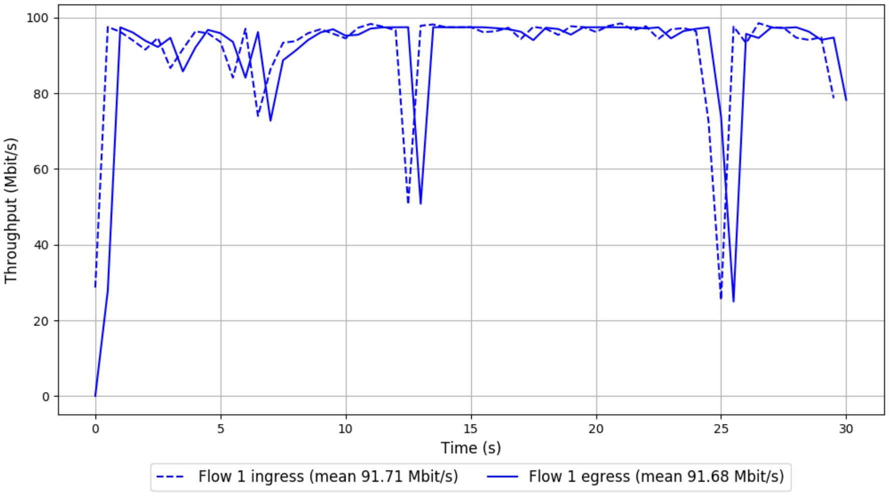
Run 7: Report of QUIC Cubic — Data Link

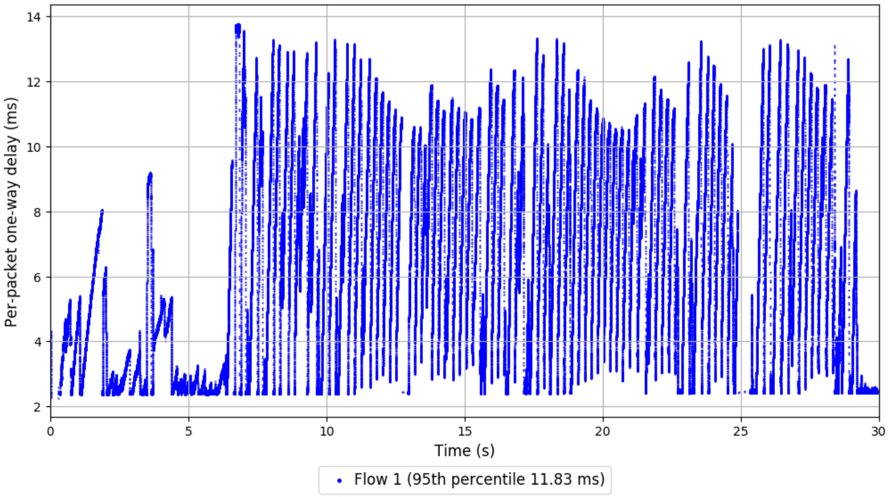




```
Run 8: Statistics of QUIC Cubic

Start at: 2018-08-01 18:38:43
End at: 2018-08-01 18:39:13
Local clock offset: -2.819 ms
Remote clock offset: -2.635 ms

# Below is generated by plot.py at 2018-08-01 19:47:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.68 Mbit/s
95th percentile per-packet one-way delay: 11.831 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 91.68 Mbit/s
95th percentile per-packet one-way delay: 11.831 ms
Loss rate: 0.05%
```

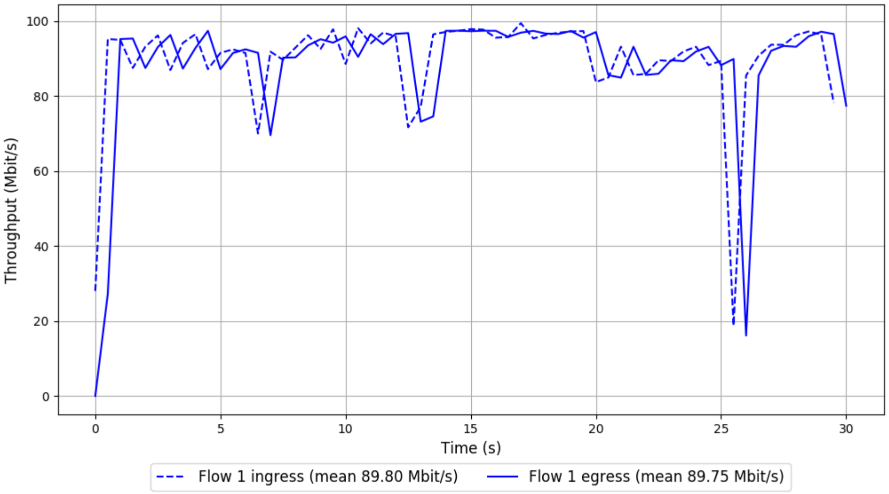
Run 8: Report of QUIC Cubic — Data Link

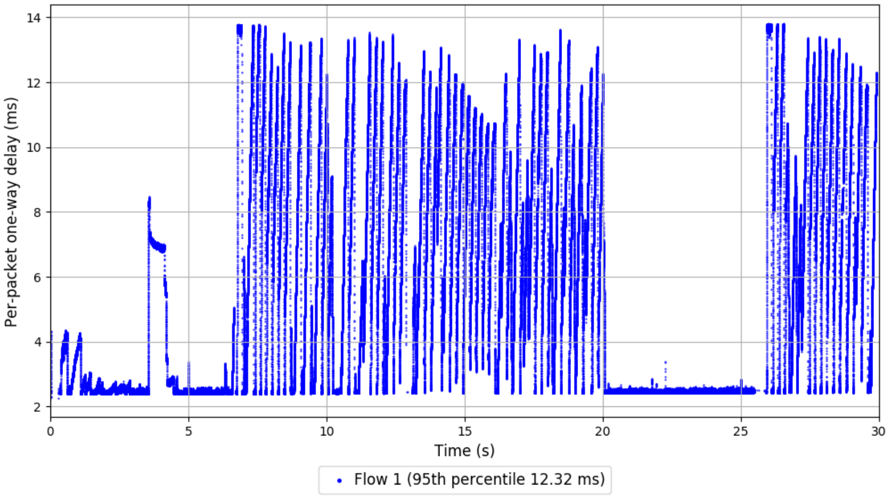




```
Run 9: Statistics of QUIC Cubic

Start at: 2018-08-01 18:57:46
End at: 2018-08-01 18:58:16
Local clock offset: -3.007 ms
Remote clock offset: -1.423 ms

# Below is generated by plot.py at 2018-08-01 19:47:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.75 Mbit/s
95th percentile per-packet one-way delay: 12.319 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 89.75 Mbit/s
95th percentile per-packet one-way delay: 12.319 ms
Loss rate: 0.08%
```

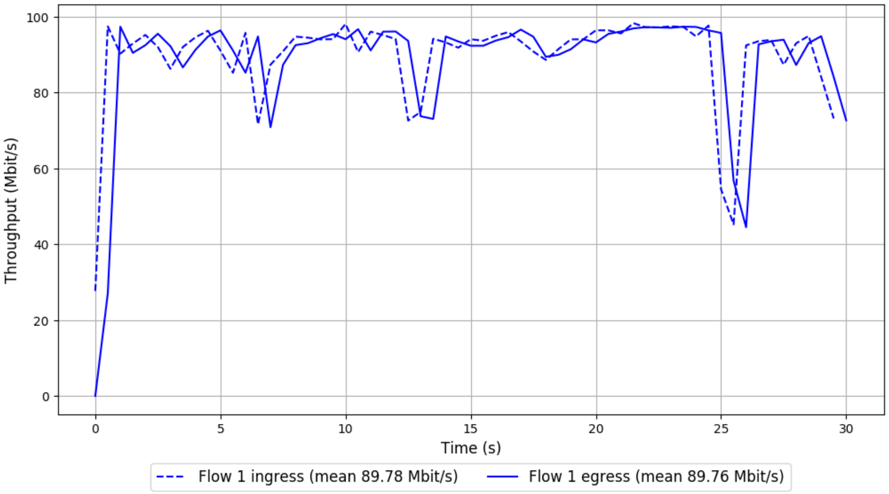
Run 9: Report of QUIC Cubic — Data Link

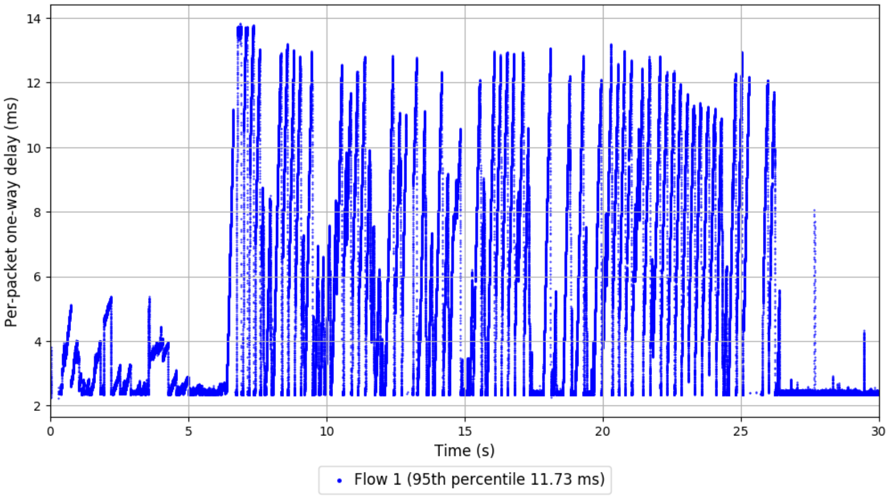




```
Run 10: Statistics of QUIC Cubic

Start at: 2018-08-01 19:16:48
End at: 2018-08-01 19:17:19
Local clock offset: -3.379 ms
Remote clock offset: -1.48 ms

# Below is generated by plot.py at 2018-08-01 19:47:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.76 Mbit/s
95th percentile per-packet one-way delay: 11.727 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 89.76 Mbit/s
95th percentile per-packet one-way delay: 11.727 ms
Loss rate: 0.04%
```

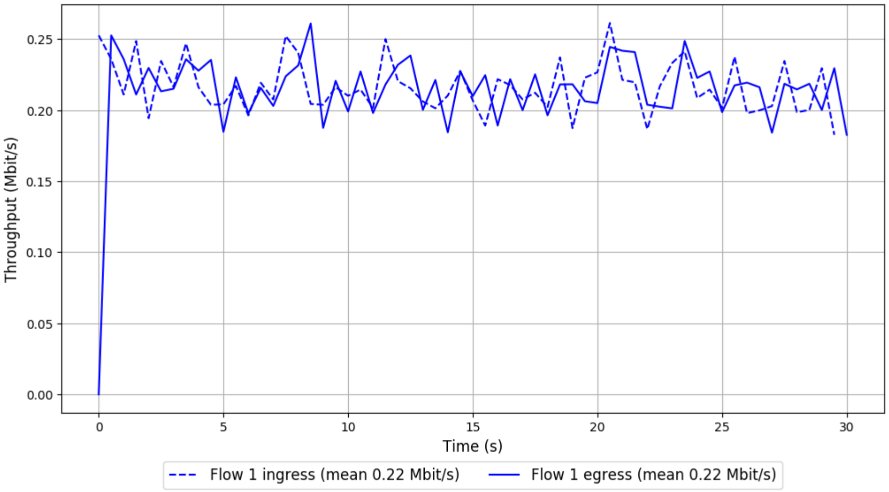
Run 10: Report of QUIC Cubic — Data Link

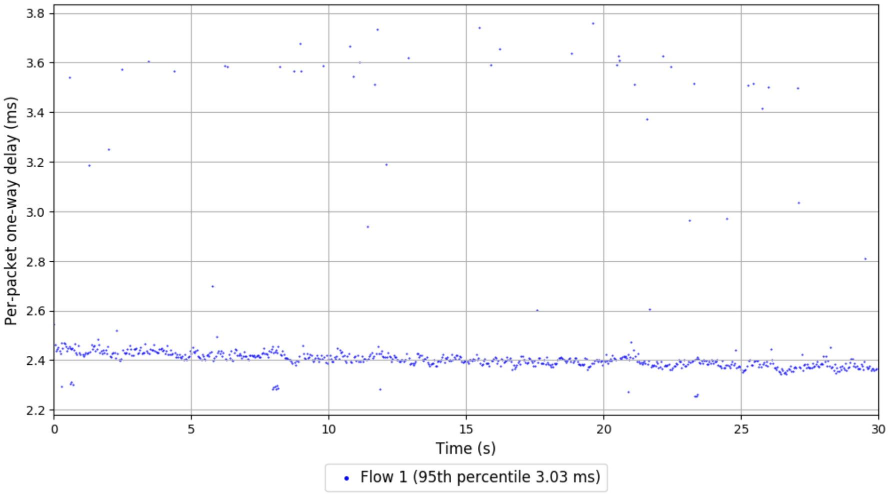




```
Run 1: Statistics of SCReAM

Start at: 2018-08-01 16:17:52
End at: 2018-08-01 16:18:22
Local clock offset: -6.201 ms
Remote clock offset: -1.466 ms

# Below is generated by plot.py at 2018-08-01 19:47:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.034 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.034 ms
Loss rate: 0.00%
```

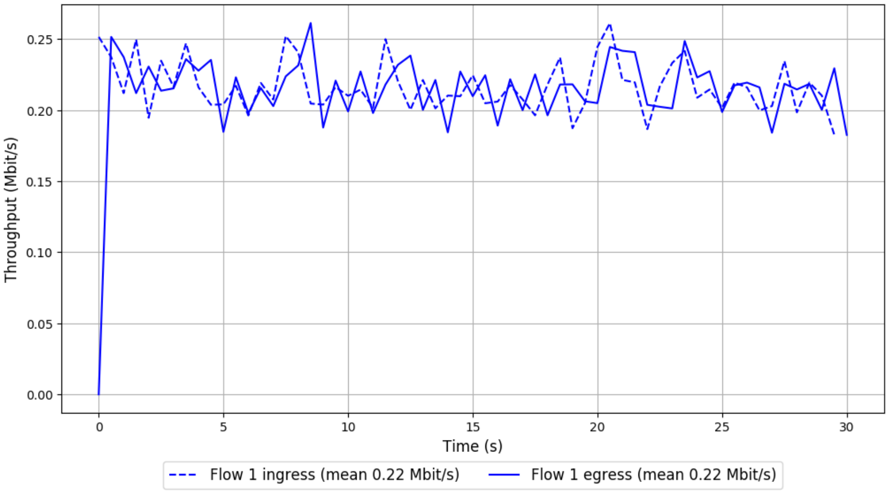
Run 1: Report of SCReAM — Data Link

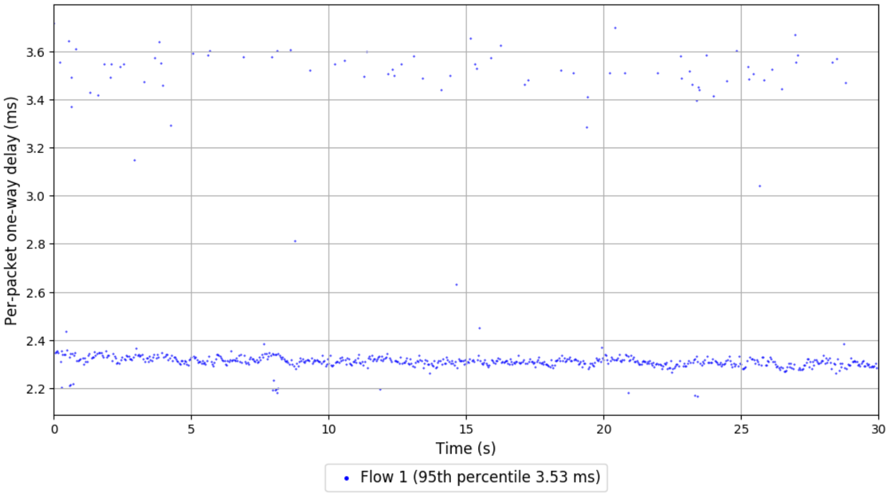




```
Run 2: Statistics of SCReAM

Start at: 2018-08-01 16:36:49
End at: 2018-08-01 16:37:19
Local clock offset: -3.433 ms
Remote clock offset: -1.9 ms

# Below is generated by plot.py at 2018-08-01 19:47:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.526 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.526 ms
Loss rate: 0.00%
```

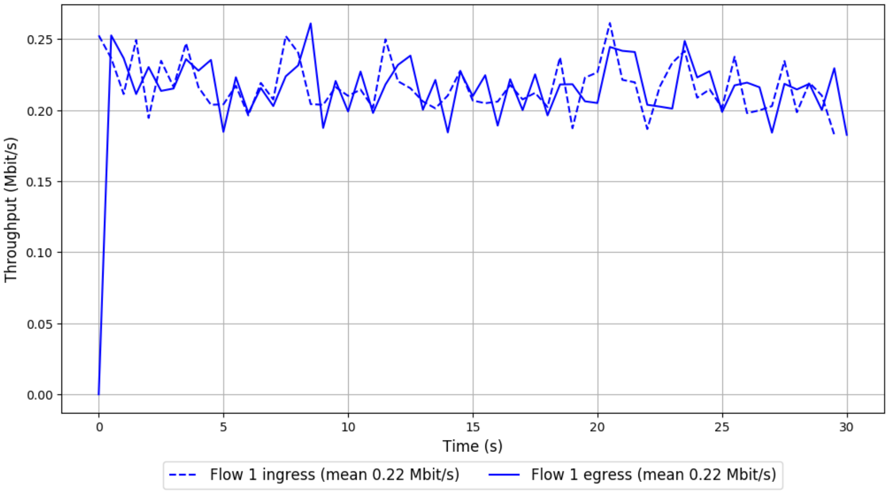
Run 2: Report of SCReAM — Data Link

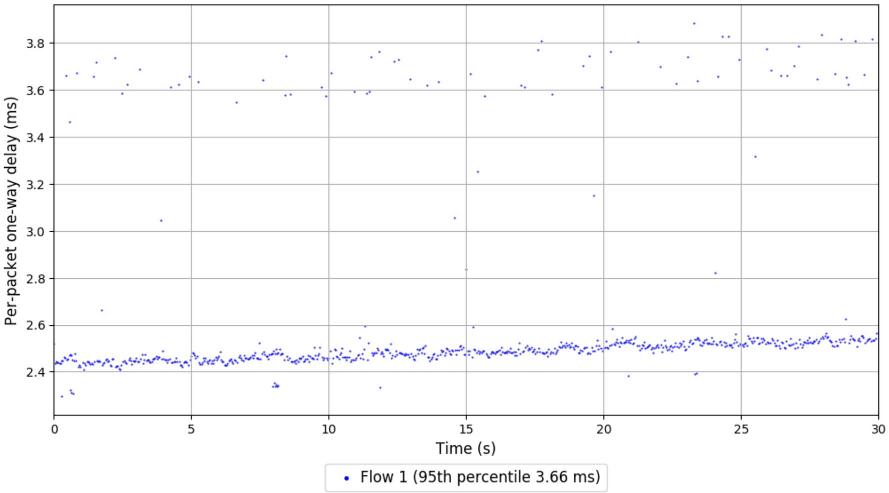




```
Run 3: Statistics of SCReAM

Start at: 2018-08-01 16:55:46
End at: 2018-08-01 16:56:16
Local clock offset: -3.892 ms
Remote clock offset: -2.085 ms

# Below is generated by plot.py at 2018-08-01 19:47:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.656 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.656 ms
Loss rate: 0.00%
```

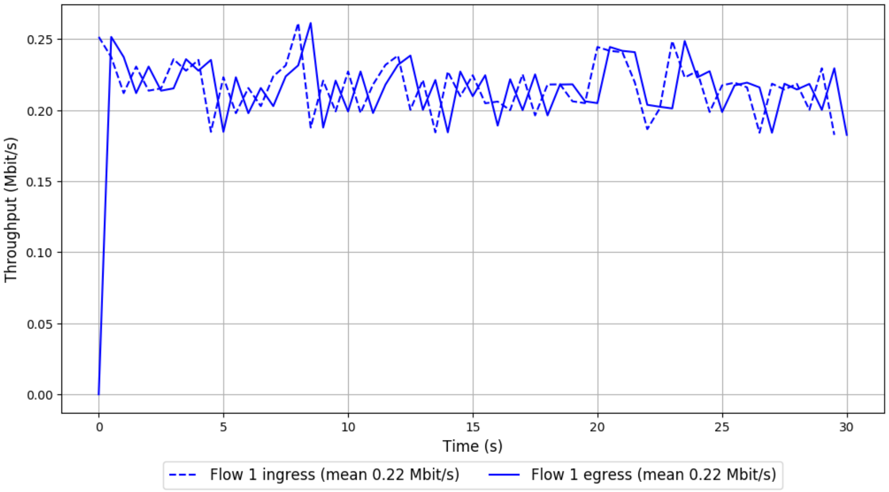
Run 3: Report of SCReAM — Data Link

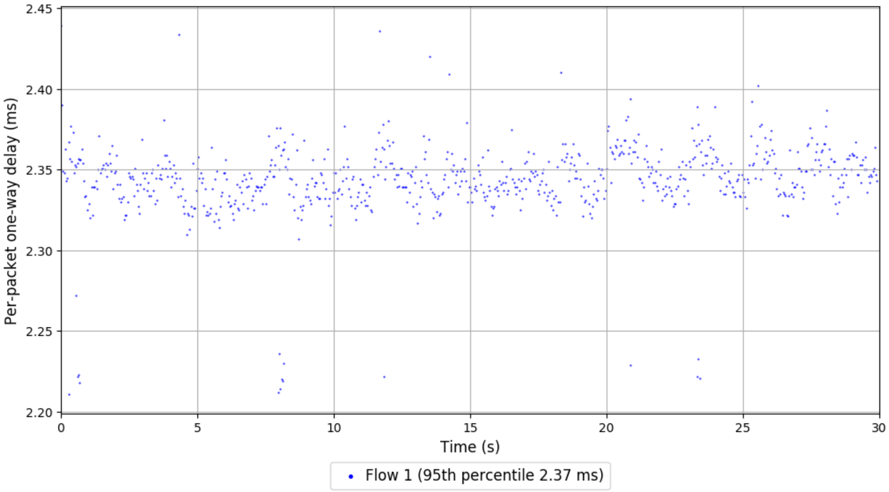




```
Run 4: Statistics of SCReAM

Start at: 2018-08-01 17:14:44
End at: 2018-08-01 17:15:14
Local clock offset: -6.753 ms
Remote clock offset: -2.839 ms

# Below is generated by plot.py at 2018-08-01 19:47:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.371 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.371 ms
Loss rate: 0.00%
```

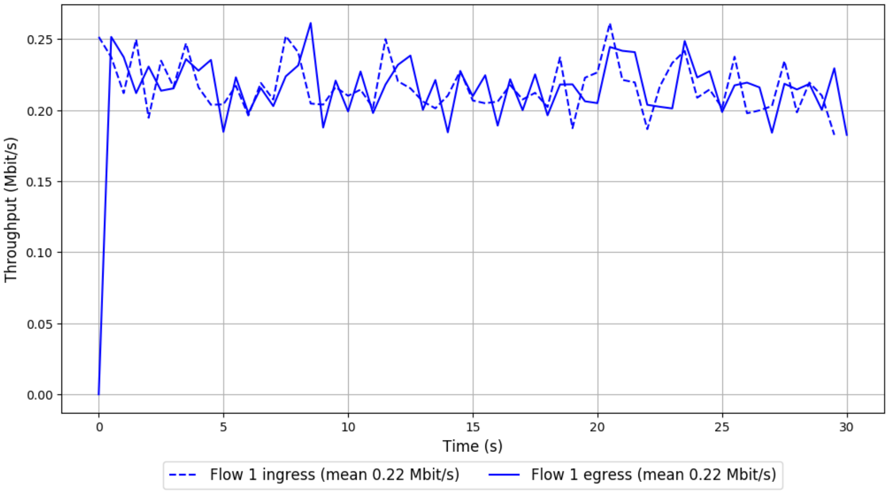
Run 4: Report of SCReAM — Data Link

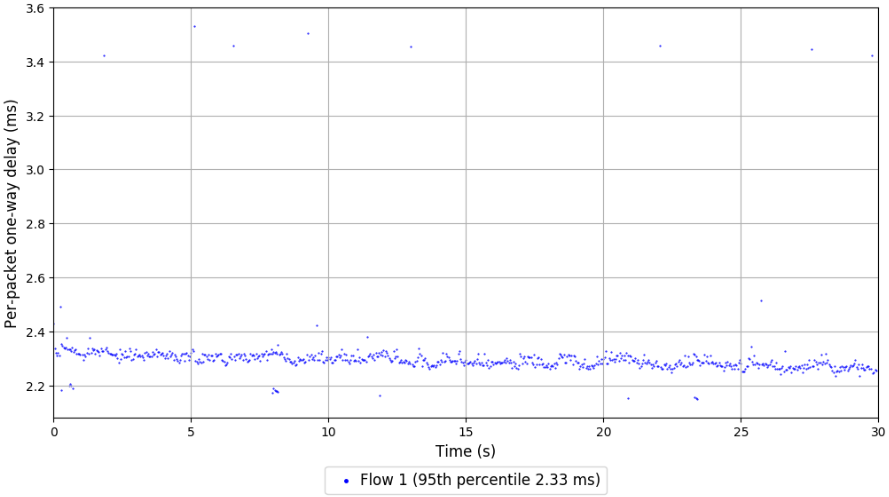




```
Run 5: Statistics of SCReAM

Start at: 2018-08-01 17:33:46
End at: 2018-08-01 17:34:16
Local clock offset: -4.009 ms
Remote clock offset: -2.435 ms

# Below is generated by plot.py at 2018-08-01 19:47:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.334 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.334 ms
Loss rate: 0.00%
```

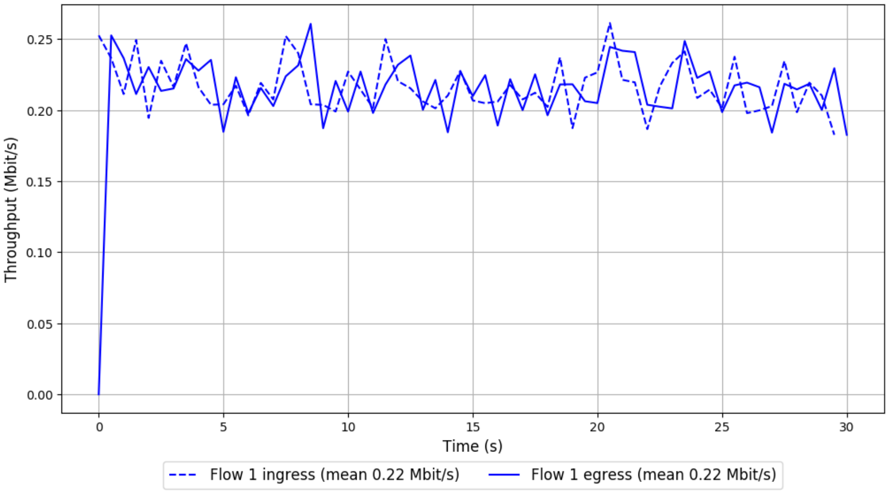
Run 5: Report of SCReAM — Data Link

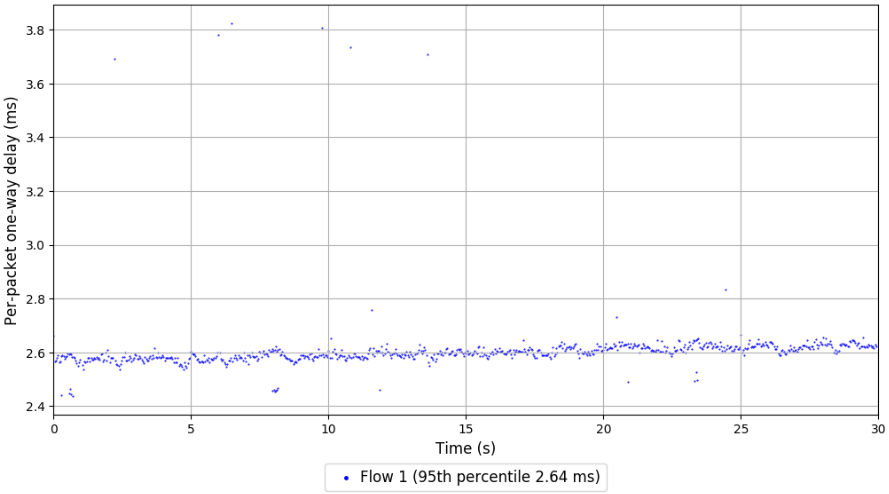




```
Run 6: Statistics of SCReAM

Start at: 2018-08-01 17:52:48
End at: 2018-08-01 17:53:18
Local clock offset: -2.594 ms
Remote clock offset: -2.033 ms

# Below is generated by plot.py at 2018-08-01 19:47:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.639 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.639 ms
Loss rate: 0.00%
```

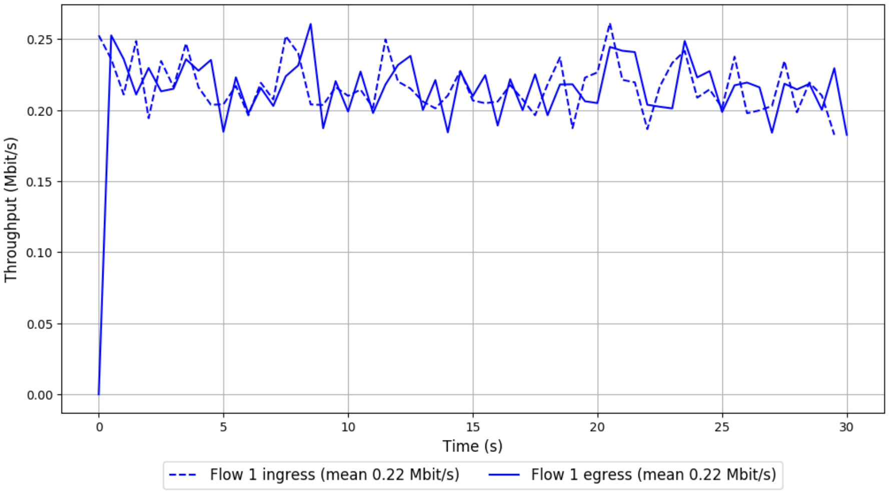
Run 6: Report of SCReAM — Data Link

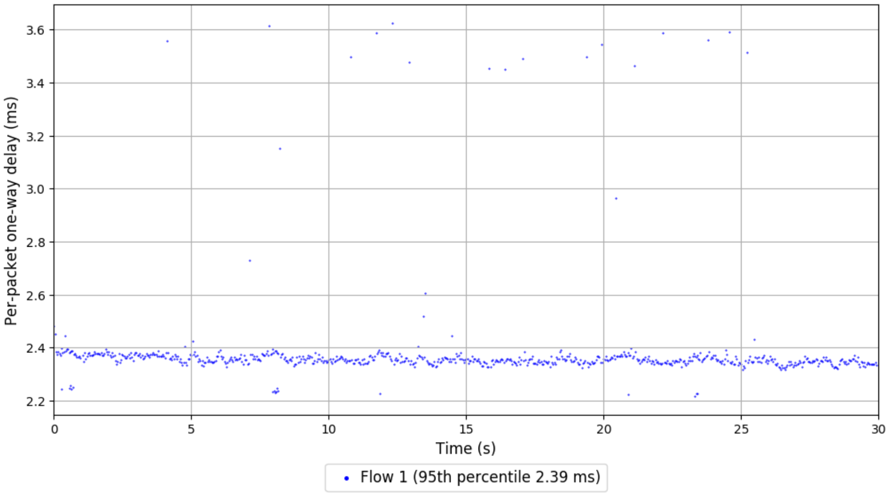




```
Run 7: Statistics of SCReAM

Start at: 2018-08-01 18:11:50
End at: 2018-08-01 18:12:20
Local clock offset: -3.206 ms
Remote clock offset: -2.755 ms

# Below is generated by plot.py at 2018-08-01 19:47:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.390 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.390 ms
Loss rate: 0.00%
```

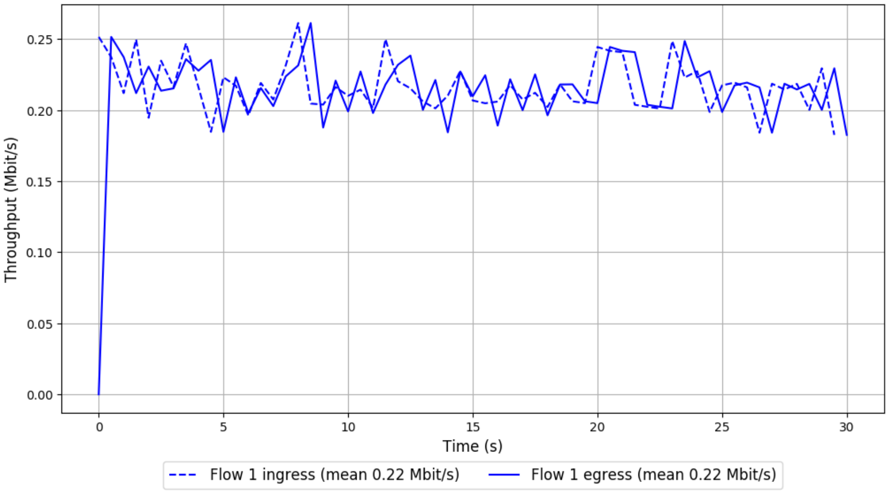
Run 7: Report of SCReAM — Data Link

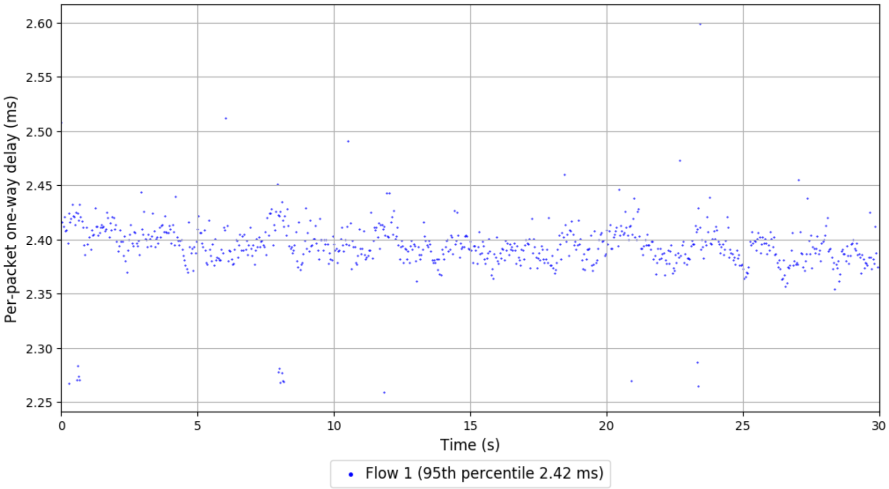




```
Run 8: Statistics of SCReAM

Start at: 2018-08-01 18:30:52
End at: 2018-08-01 18:31:22
Local clock offset: -2.923 ms
Remote clock offset: -3.165 ms

# Below is generated by plot.py at 2018-08-01 19:47:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.424 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.424 ms
Loss rate: 0.00%
```

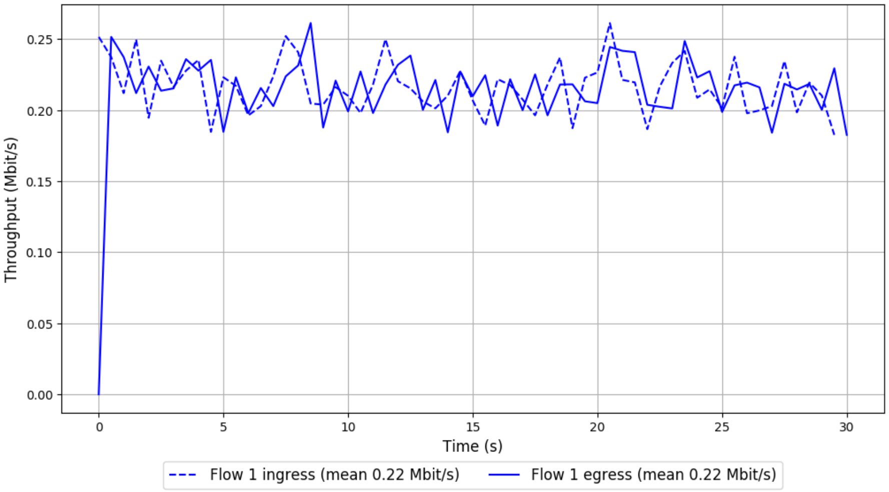
Run 8: Report of SCReAM — Data Link

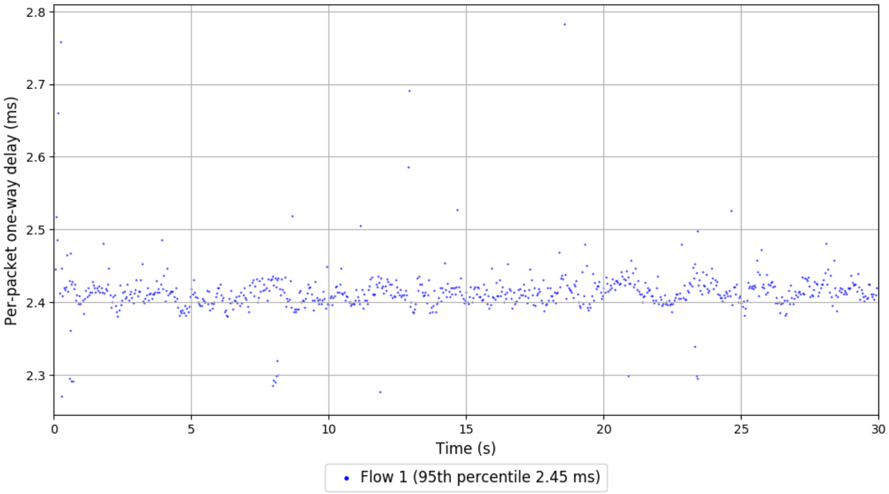




```
Run 9: Statistics of SCReAM

Start at: 2018-08-01 18:49:55
End at: 2018-08-01 18:50:25
Local clock offset: -2.541 ms
Remote clock offset: -1.722 ms

# Below is generated by plot.py at 2018-08-01 19:47:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.446 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.446 ms
Loss rate: 0.00%
```

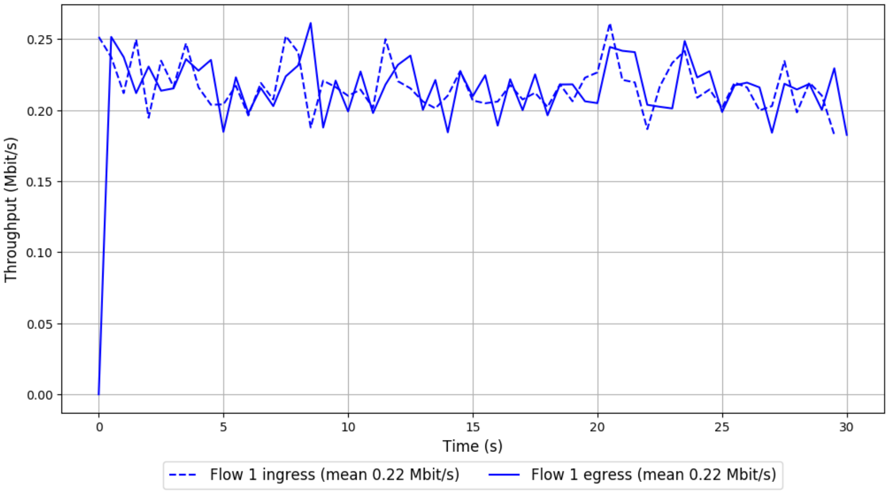
Run 9: Report of SCReAM — Data Link

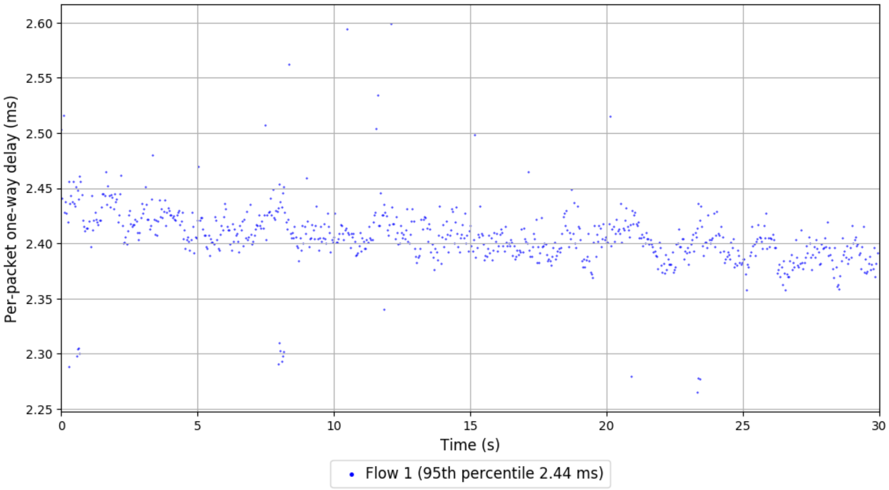




```
Run 10: Statistics of SCReAM

Start at: 2018-08-01 19:08:57
End at: 2018-08-01 19:09:27
Local clock offset: -3.301 ms
Remote clock offset: -1.1 ms

# Below is generated by plot.py at 2018-08-01 19:47:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.443 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.443 ms
Loss rate: 0.00%
```

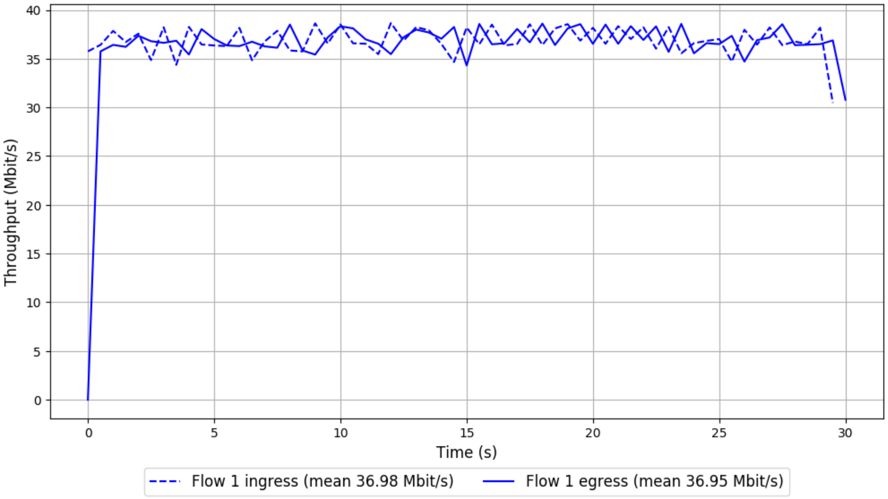
Run 10: Report of SCReAM — Data Link

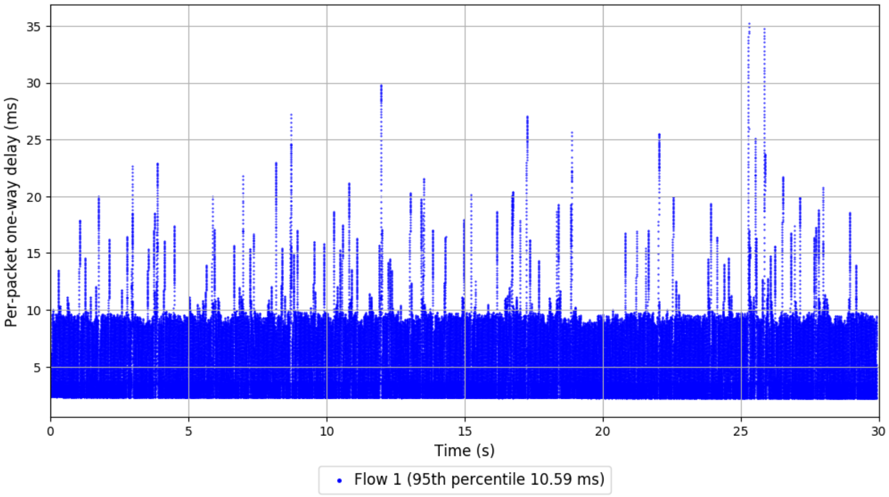




```
Run 1: Statistics of Sprout

Start at: 2018-08-01 16:27:55
End at: 2018-08-01 16:28:25
Local clock offset: -4.708 ms
Remote clock offset: -2.0 ms

# Below is generated by plot.py at 2018-08-01 19:47:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.95 Mbit/s
95th percentile per-packet one-way delay: 10.586 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 36.95 Mbit/s
95th percentile per-packet one-way delay: 10.586 ms
Loss rate: 0.06%
```

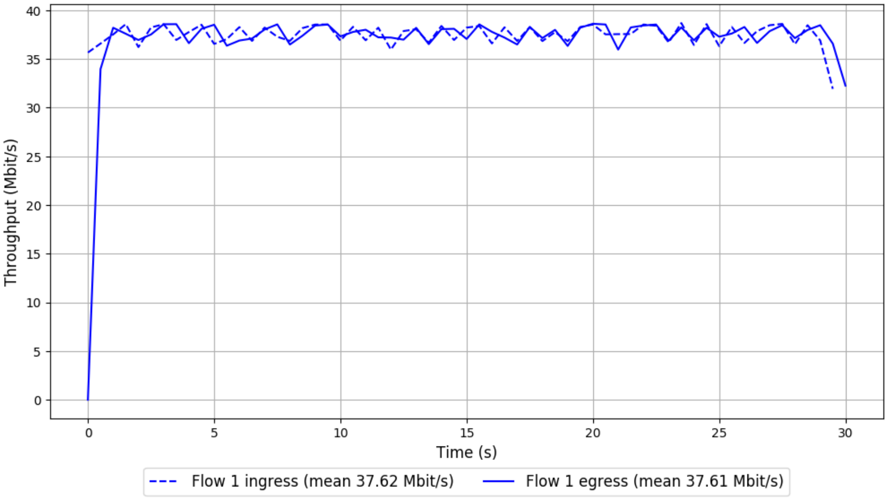
Run 1: Report of Sprout — Data Link

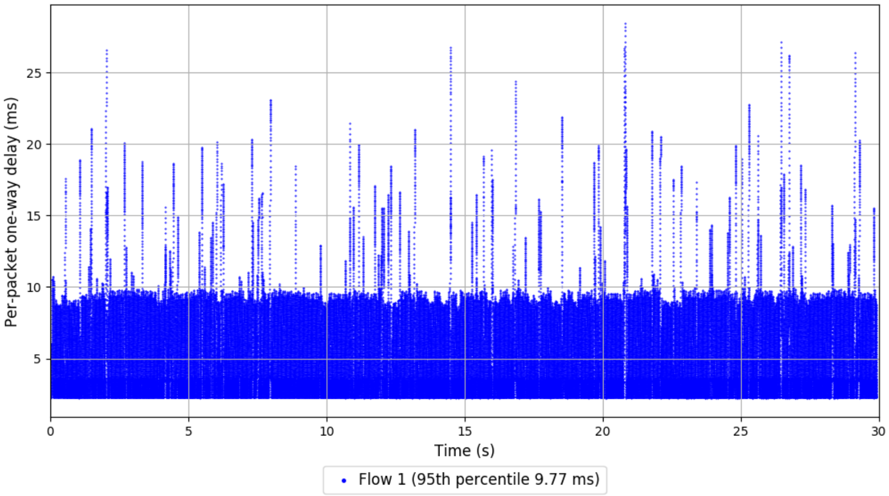




```
Run 2: Statistics of Sprout

Start at: 2018-08-01 16:46:51
End at: 2018-08-01 16:47:21
Local clock offset: -2.755 ms
Remote clock offset: -1.597 ms

# Below is generated by plot.py at 2018-08-01 19:47:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.61 Mbit/s
95th percentile per-packet one-way delay: 9.770 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 37.61 Mbit/s
95th percentile per-packet one-way delay: 9.770 ms
Loss rate: 0.00%
```

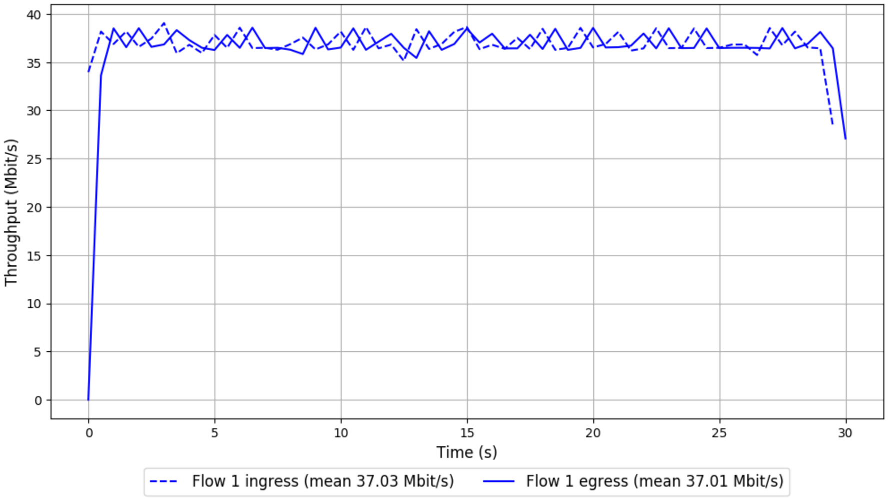
Run 2: Report of Sprout — Data Link

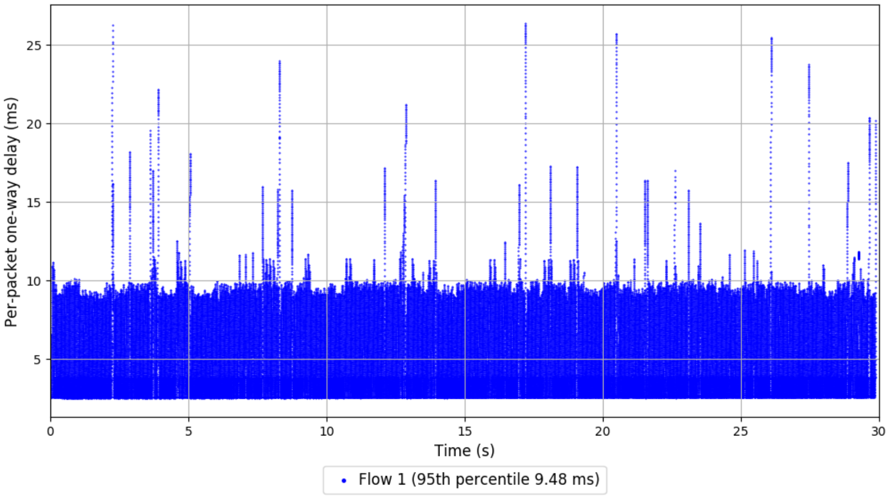




```
Run 3: Statistics of Sprout

Start at: 2018-08-01 17:05:48
End at: 2018-08-01 17:06:18
Local clock offset: -5.958 ms
Remote clock offset: -2.77 ms

# Below is generated by plot.py at 2018-08-01 19:47:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.01 Mbit/s
95th percentile per-packet one-way delay: 9.478 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 37.01 Mbit/s
95th percentile per-packet one-way delay: 9.478 ms
Loss rate: 0.06%
```

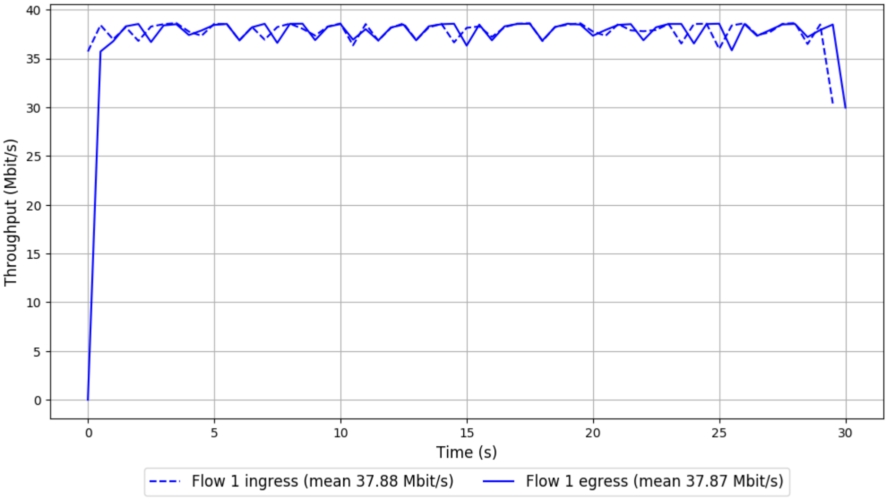
Run 3: Report of Sprout — Data Link

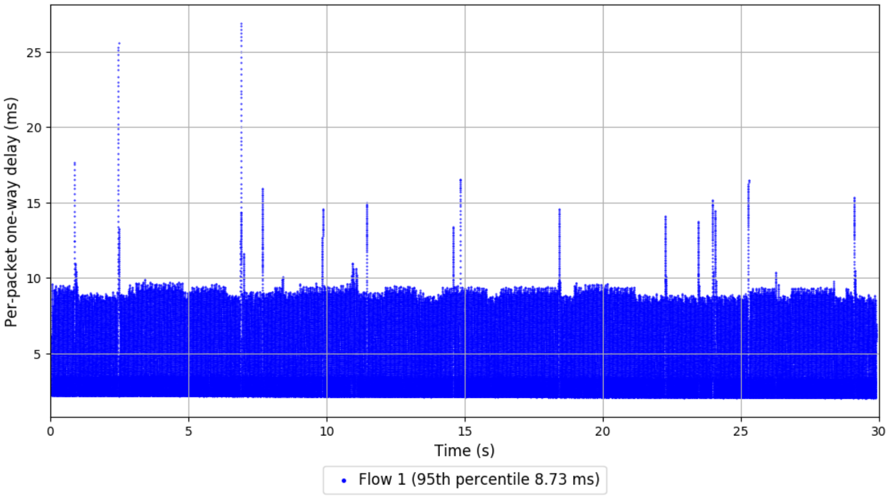




```
Run 4: Statistics of Sprout

Start at: 2018-08-01 17:24:50
End at: 2018-08-01 17:25:20
Local clock offset: -6.062 ms
Remote clock offset: -2.841 ms

# Below is generated by plot.py at 2018-08-01 19:47:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.87 Mbit/s
95th percentile per-packet one-way delay: 8.735 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 37.87 Mbit/s
95th percentile per-packet one-way delay: 8.735 ms
Loss rate: 0.02%
```

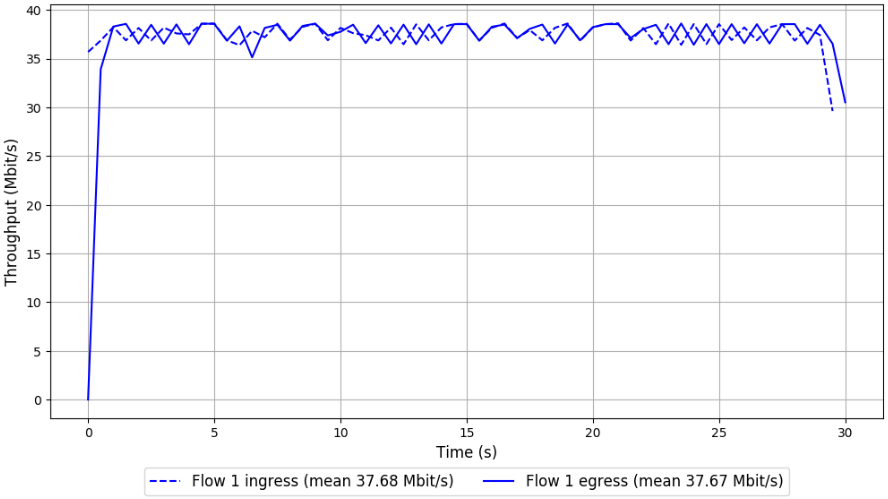
Run 4: Report of Sprout — Data Link

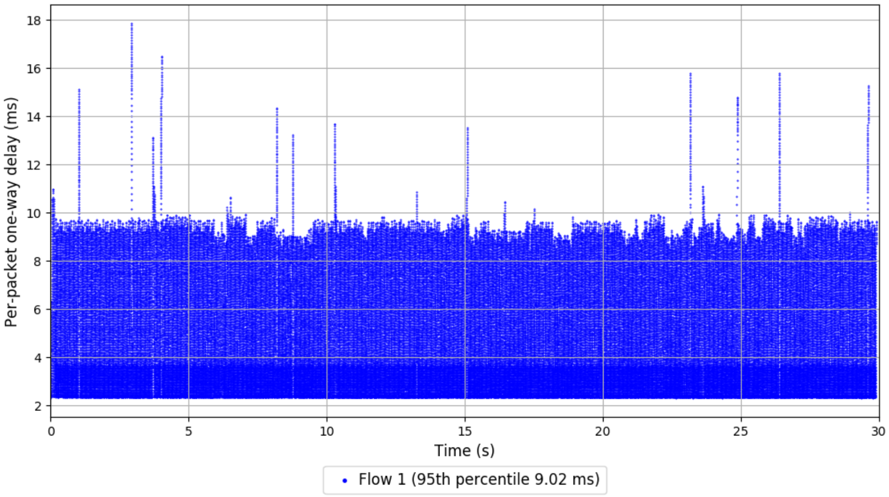




```
Run 5: Statistics of Sprout

Start at: 2018-08-01 17:43:51
End at: 2018-08-01 17:44:21
Local clock offset: -3.03 ms
Remote clock offset: -2.108 ms

# Below is generated by plot.py at 2018-08-01 19:47:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.67 Mbit/s
95th percentile per-packet one-way delay: 9.019 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 37.67 Mbit/s
95th percentile per-packet one-way delay: 9.019 ms
Loss rate: 0.00%
```

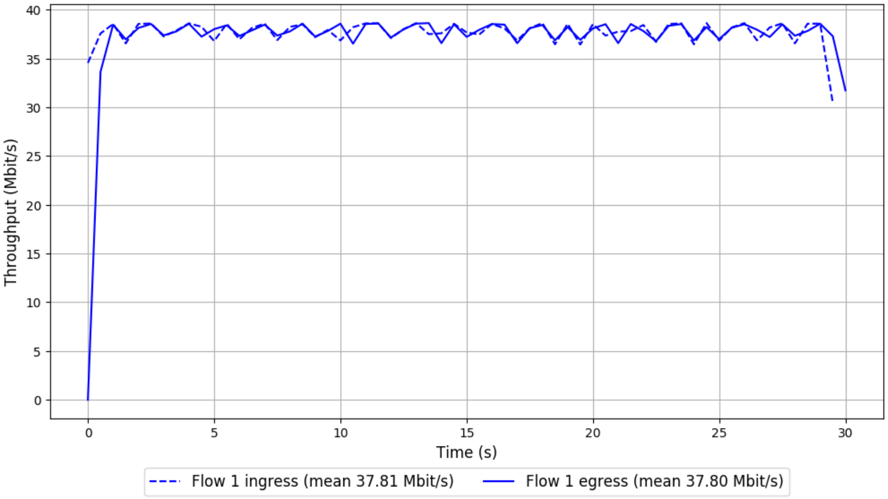
Run 5: Report of Sprout — Data Link

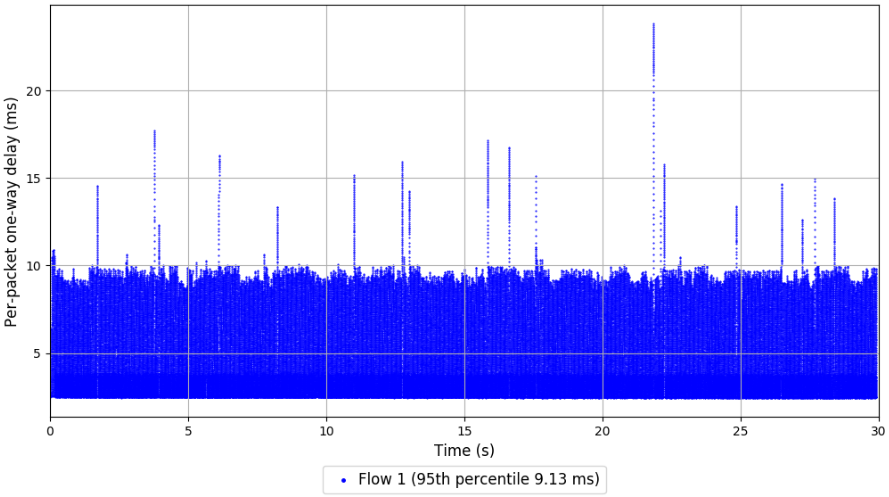




```
Run 6: Statistics of Sprout

Start at: 2018-08-01 18:02:53
End at: 2018-08-01 18:03:23
Local clock offset: -3.141 ms
Remote clock offset: -2.246 ms

# Below is generated by plot.py at 2018-08-01 19:47:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.80 Mbit/s
95th percentile per-packet one-way delay: 9.129 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 37.80 Mbit/s
95th percentile per-packet one-way delay: 9.129 ms
Loss rate: 0.00%
```

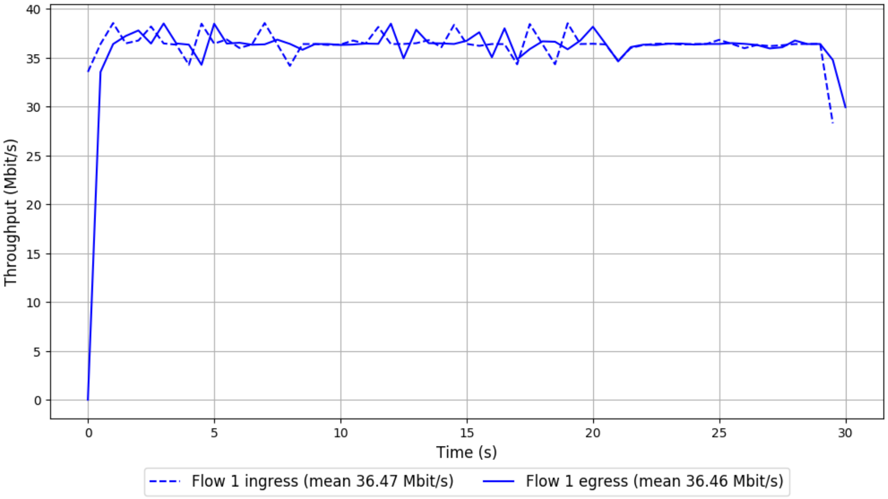
Run 6: Report of Sprout — Data Link

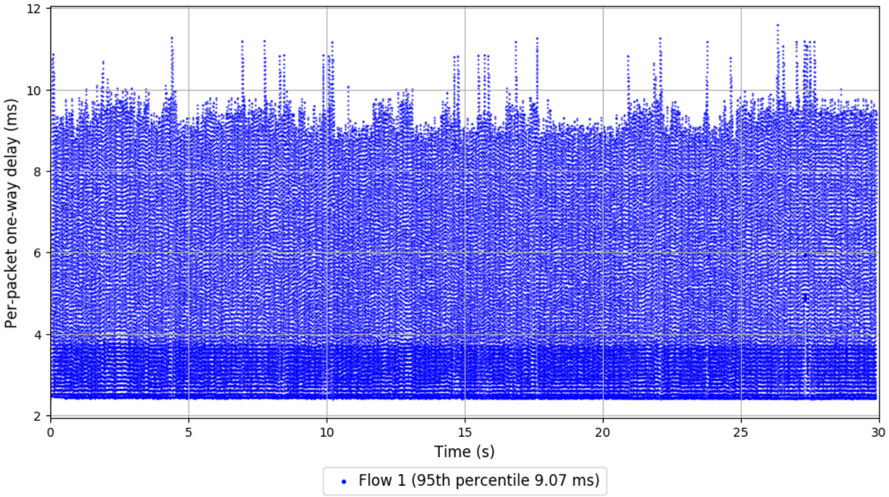




```
Run 7: Statistics of Sprout

Start at: 2018-08-01 18:21:55
End at: 2018-08-01 18:22:25
Local clock offset: -3.096 ms
Remote clock offset: -3.086 ms

# Below is generated by plot.py at 2018-08-01 19:47:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.46 Mbit/s
95th percentile per-packet one-way delay: 9.070 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 36.46 Mbit/s
95th percentile per-packet one-way delay: 9.070 ms
Loss rate: 0.00%
```

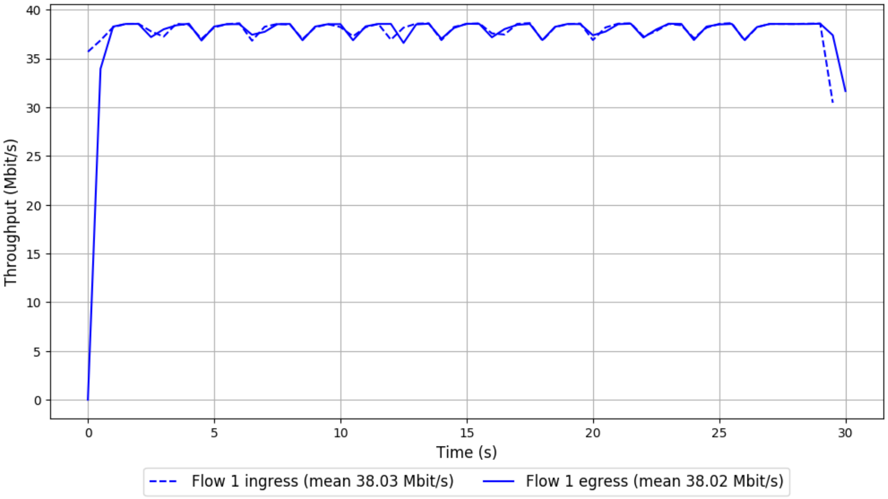
Run 7: Report of Sprout — Data Link

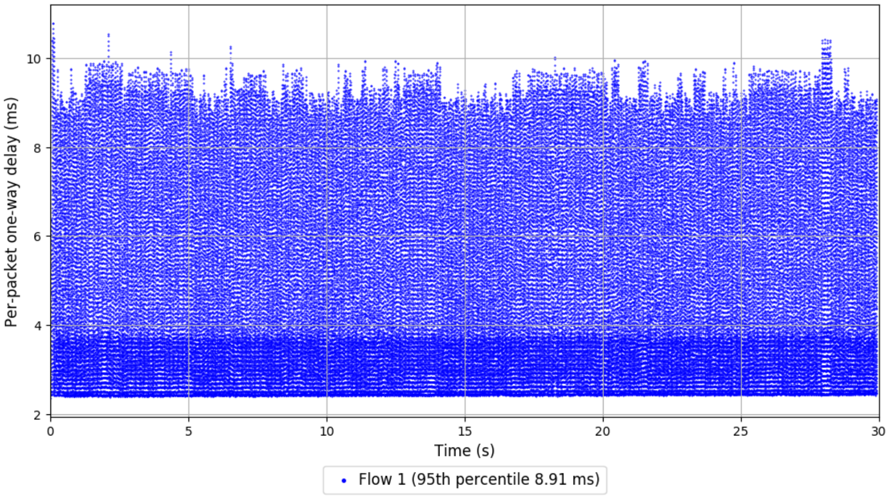




```
Run 8: Statistics of Sprout

Start at: 2018-08-01 18:40:58
End at: 2018-08-01 18:41:28
Local clock offset: -2.732 ms
Remote clock offset: -2.367 ms

# Below is generated by plot.py at 2018-08-01 19:47:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 38.02 Mbit/s
95th percentile per-packet one-way delay: 8.911 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 38.02 Mbit/s
95th percentile per-packet one-way delay: 8.911 ms
Loss rate: 0.00%
```

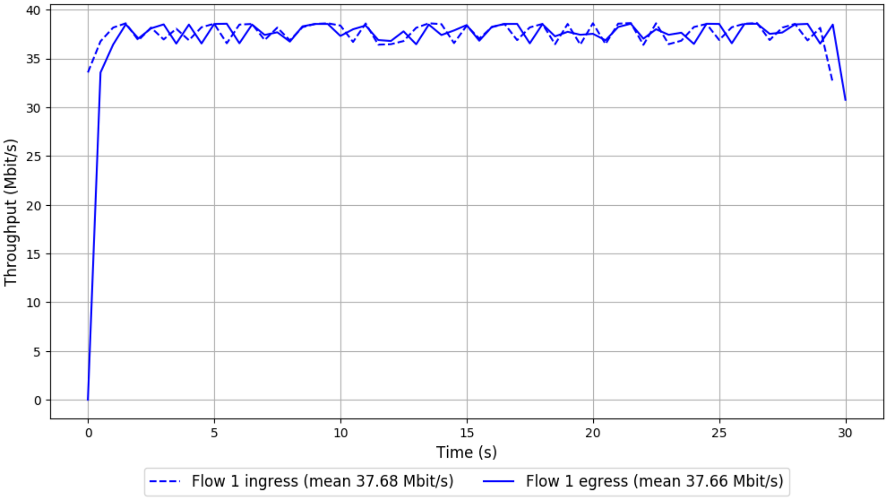
Run 8: Report of Sprout — Data Link

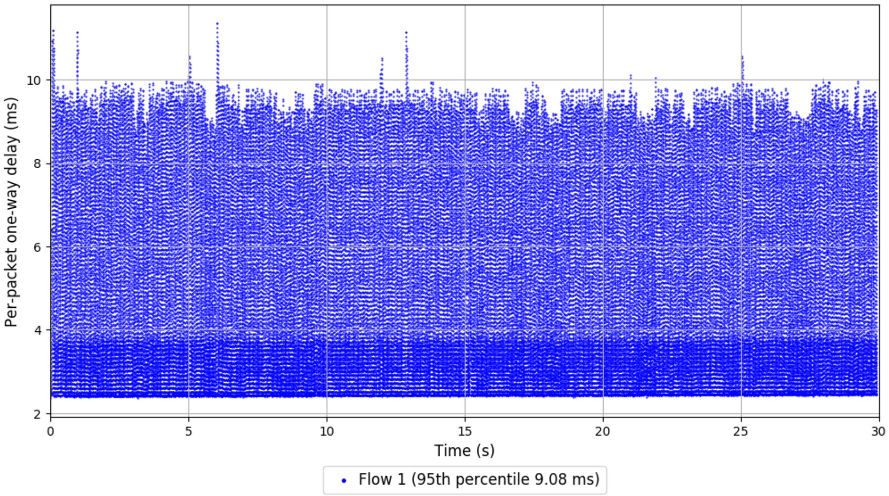




```
Run 9: Statistics of Sprout

Start at: 2018-08-01 19:00:01
End at: 2018-08-01 19:00:31
Local clock offset: -3.061 ms
Remote clock offset: -1.285 ms

# Below is generated by plot.py at 2018-08-01 19:47:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.66 Mbit/s
95th percentile per-packet one-way delay: 9.081 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 37.66 Mbit/s
95th percentile per-packet one-way delay: 9.081 ms
Loss rate: 0.08%
```

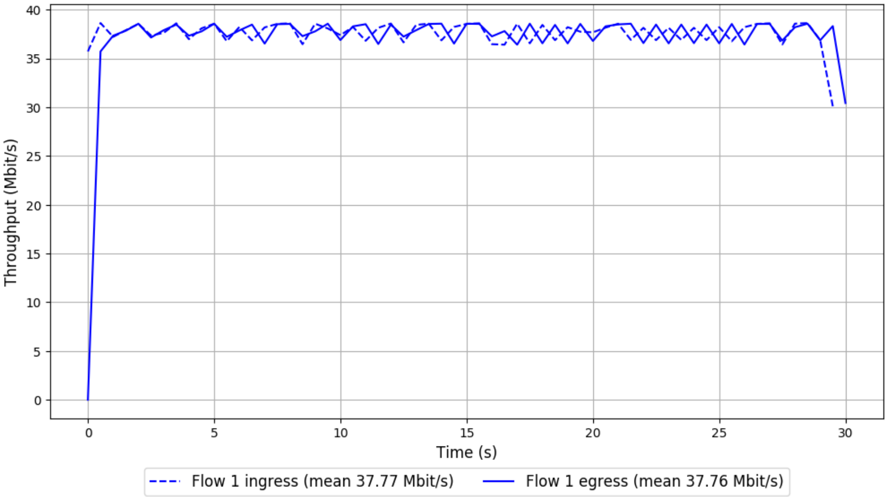
Run 9: Report of Sprout — Data Link

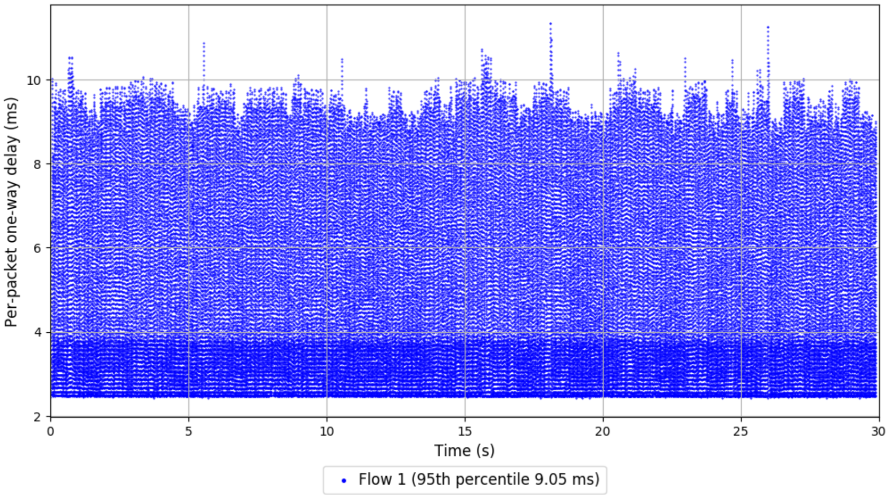




```
Run 10: Statistics of Sprout

Start at: 2018-08-01 19:19:03
End at: 2018-08-01 19:19:33
Local clock offset: -3.376 ms
Remote clock offset: -1.613 ms

# Below is generated by plot.py at 2018-08-01 19:47:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.76 Mbit/s
95th percentile per-packet one-way delay: 9.049 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 37.76 Mbit/s
95th percentile per-packet one-way delay: 9.049 ms
Loss rate: 0.00%
```

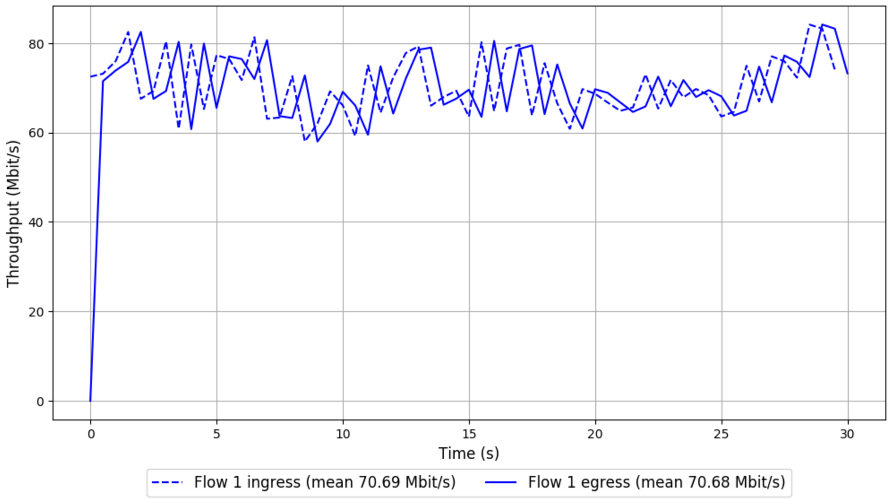
Run 10: Report of Sprout — Data Link

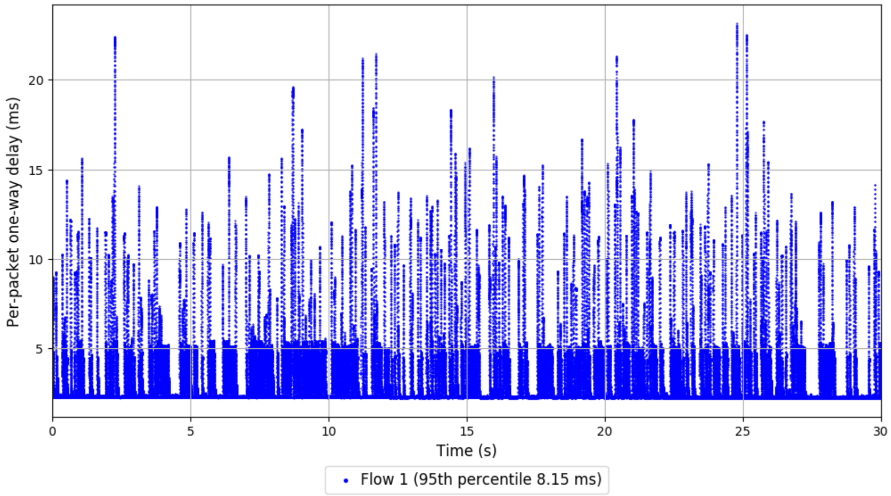




```
Run 1: Statistics of TaoVA-100x

Start at: 2018-08-01 16:21:13
End at: 2018-08-01 16:21:43
Local clock offset: -6.255 ms
Remote clock offset: -1.71 ms

# Below is generated by plot.py at 2018-08-01 19:49:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.68 Mbit/s
95th percentile per-packet one-way delay: 8.152 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 70.68 Mbit/s
95th percentile per-packet one-way delay: 8.152 ms
Loss rate: 0.03%
```

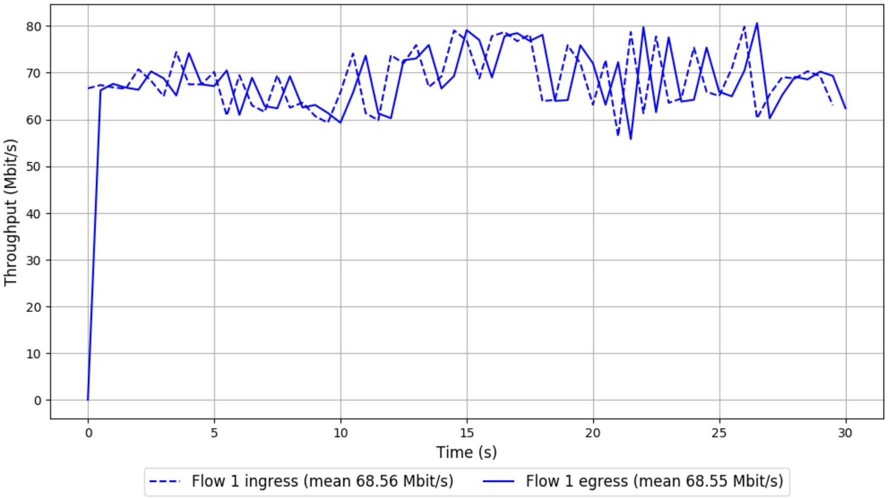
Run 1: Report of TaoVA-100x — Data Link

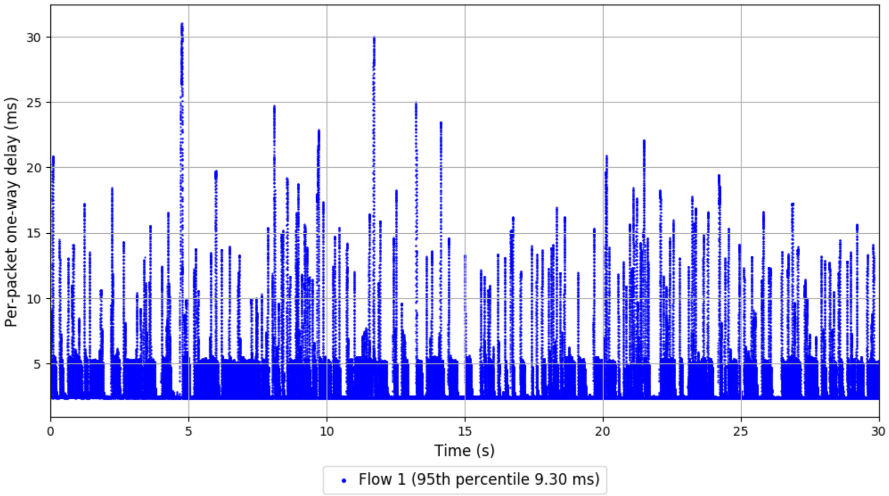




```
Run 2: Statistics of TaoVA-100x

Start at: 2018-08-01 16:40:09
End at: 2018-08-01 16:40:39
Local clock offset: -3.172 ms
Remote clock offset: -1.885 ms

# Below is generated by plot.py at 2018-08-01 19:49:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.55 Mbit/s
95th percentile per-packet one-way delay: 9.304 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 68.55 Mbit/s
95th percentile per-packet one-way delay: 9.304 ms
Loss rate: 0.03%
```

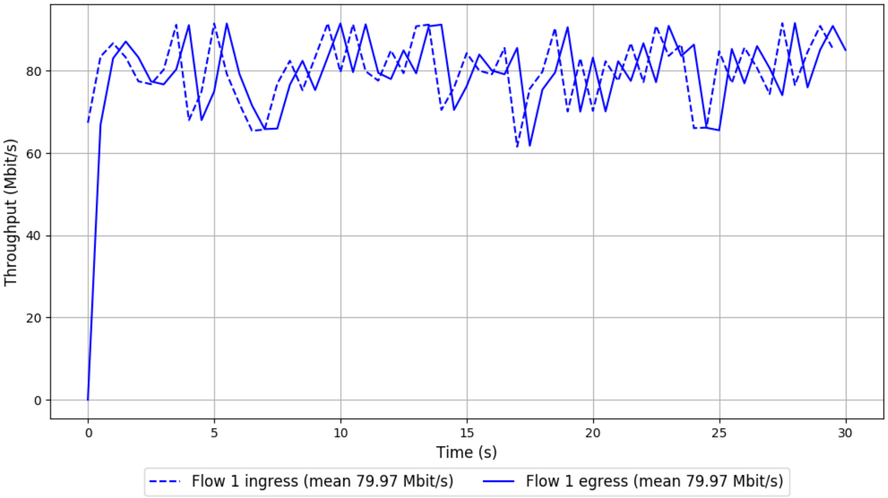
Run 2: Report of TaoVA-100x — Data Link

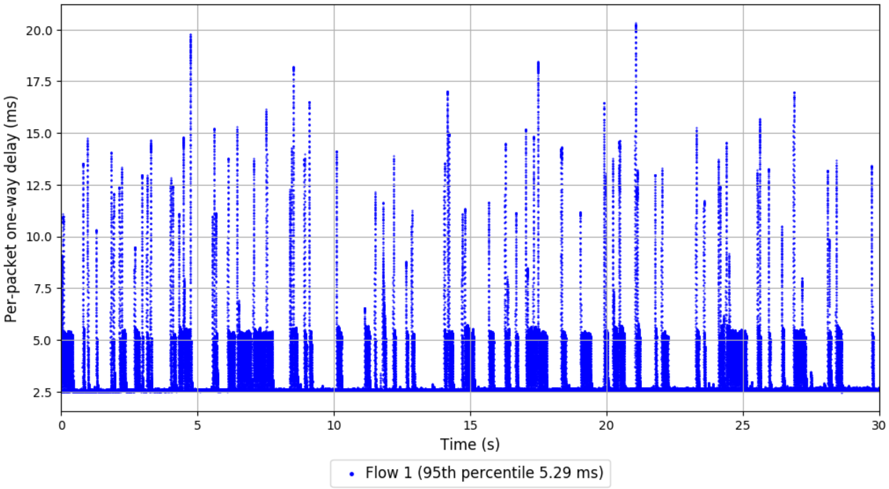




```
Run 3: Statistics of TaoVA-100x

Start at: 2018-08-01 16:59:04
End at: 2018-08-01 16:59:34
Local clock offset: -4.763 ms
Remote clock offset: -2.431 ms

# Below is generated by plot.py at 2018-08-01 19:49:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.97 Mbit/s
95th percentile per-packet one-way delay: 5.287 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 79.97 Mbit/s
95th percentile per-packet one-way delay: 5.287 ms
Loss rate: 0.02%
```

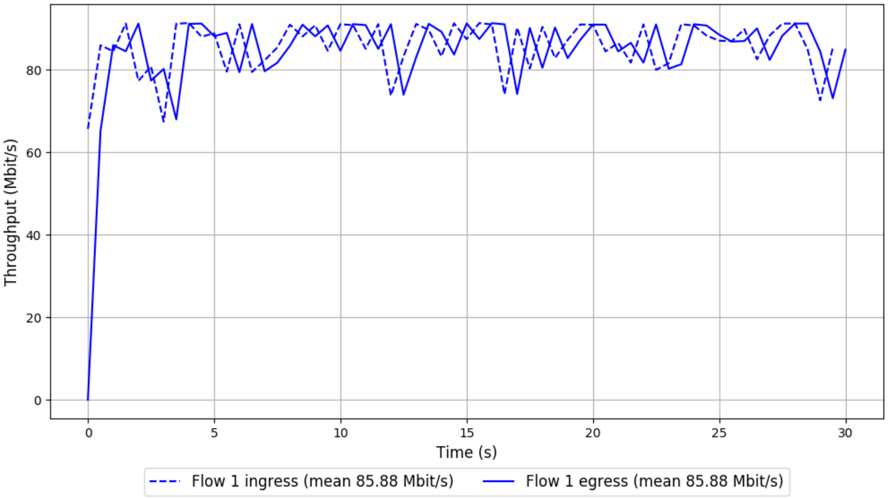
Run 3: Report of TaoVA-100x — Data Link

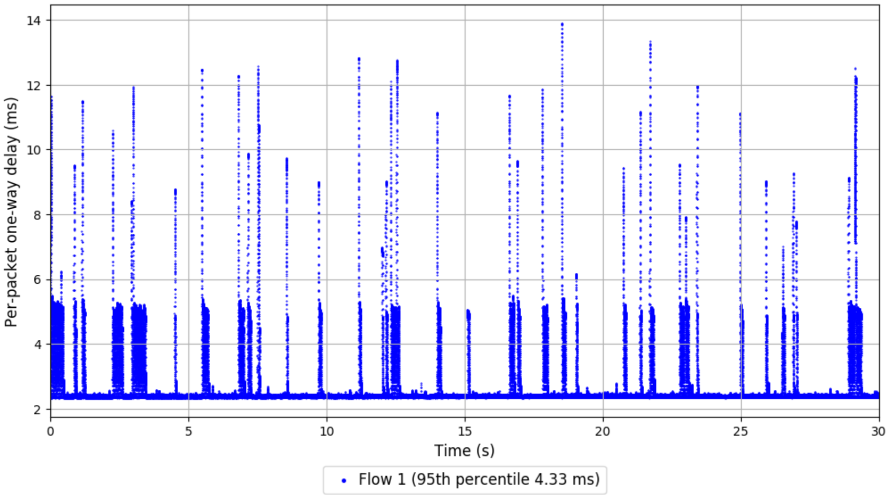




```
Run 4: Statistics of TaoVA-100x

Start at: 2018-08-01 17:18:06
End at: 2018-08-01 17:18:36
Local clock offset: -6.824 ms
Remote clock offset: -2.823 ms

# Below is generated by plot.py at 2018-08-01 19:49:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.88 Mbit/s
95th percentile per-packet one-way delay: 4.329 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 85.88 Mbit/s
95th percentile per-packet one-way delay: 4.329 ms
Loss rate: 0.02%
```

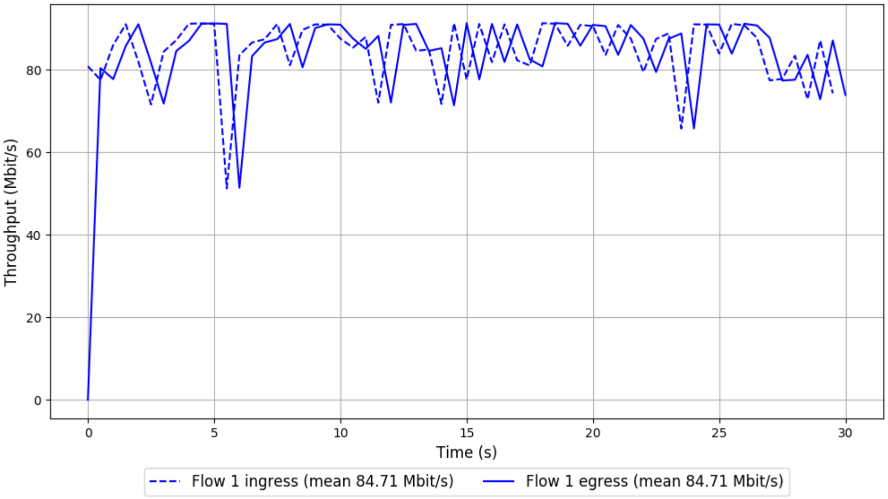
Run 4: Report of TaoVA-100x — Data Link

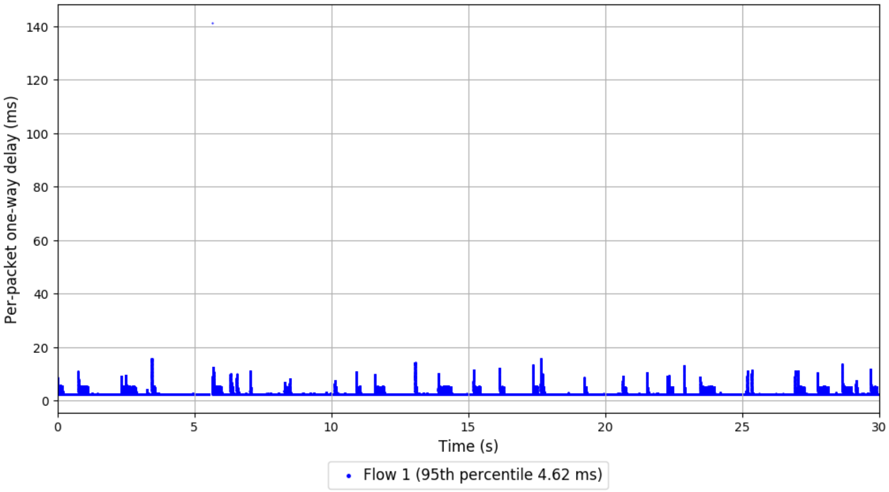




```
Run 5: Statistics of TaoVA-100x

Start at: 2018-08-01 17:37:07
End at: 2018-08-01 17:37:37
Local clock offset: -3.615 ms
Remote clock offset: -2.406 ms

# Below is generated by plot.py at 2018-08-01 19:49:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.71 Mbit/s
95th percentile per-packet one-way delay: 4.621 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 84.71 Mbit/s
95th percentile per-packet one-way delay: 4.621 ms
Loss rate: 0.02%
```

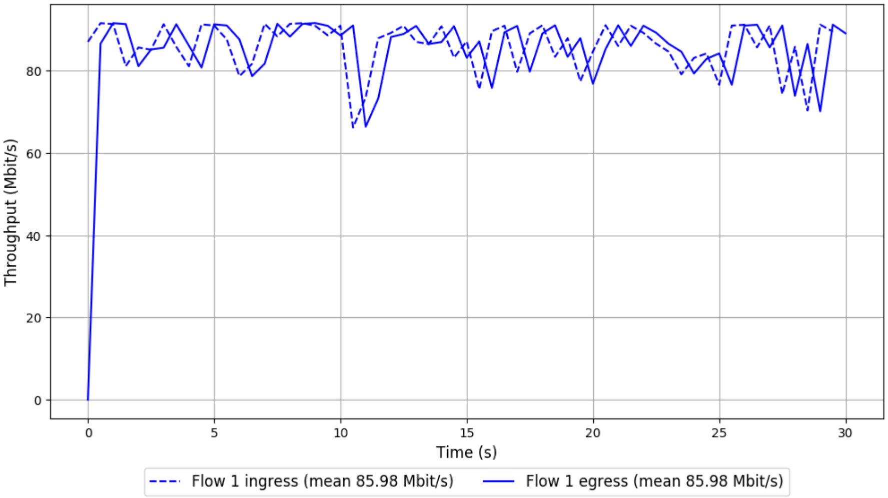
Run 5: Report of TaoVA-100x — Data Link

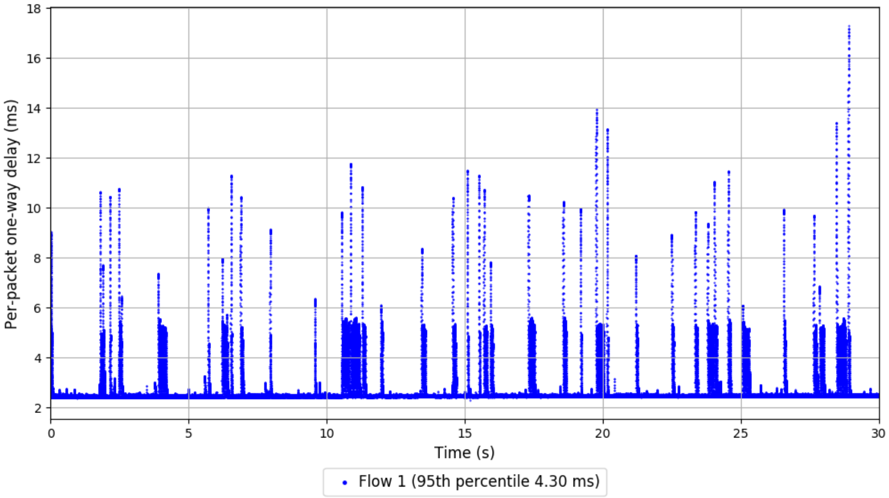




```
Run 6: Statistics of TaoVA-100x

Start at: 2018-08-01 17:56:09
End at: 2018-08-01 17:56:39
Local clock offset: -2.888 ms
Remote clock offset: -1.809 ms

# Below is generated by plot.py at 2018-08-01 19:49:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.98 Mbit/s
95th percentile per-packet one-way delay: 4.305 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 85.98 Mbit/s
95th percentile per-packet one-way delay: 4.305 ms
Loss rate: 0.02%
```

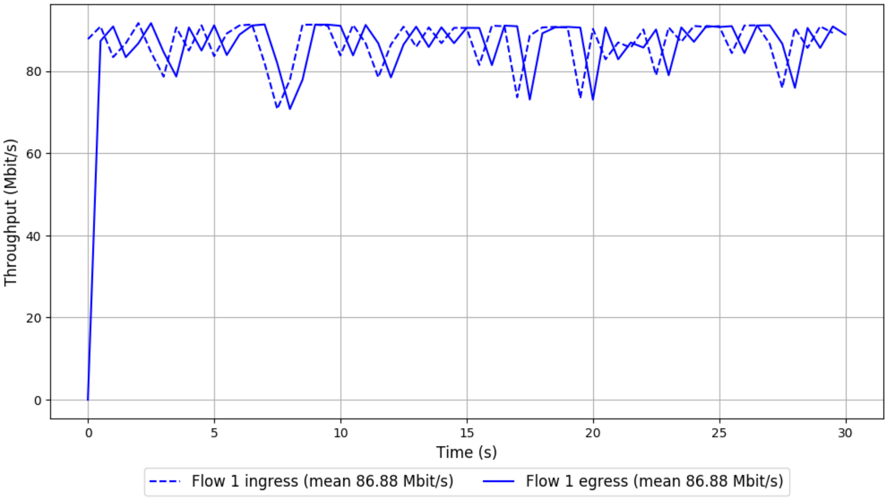
Run 6: Report of TaoVA-100x — Data Link

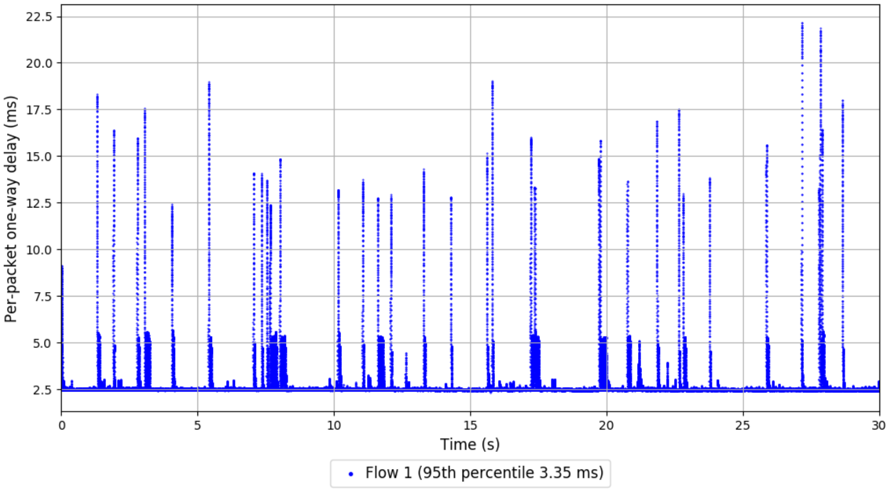




```
Run 7: Statistics of TaoVA-100x

Start at: 2018-08-01 18:15:11
End at: 2018-08-01 18:15:41
Local clock offset: -3.177 ms
Remote clock offset: -2.952 ms

# Below is generated by plot.py at 2018-08-01 19:49:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.88 Mbit/s
95th percentile per-packet one-way delay: 3.350 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 86.88 Mbit/s
95th percentile per-packet one-way delay: 3.350 ms
Loss rate: 0.02%
```

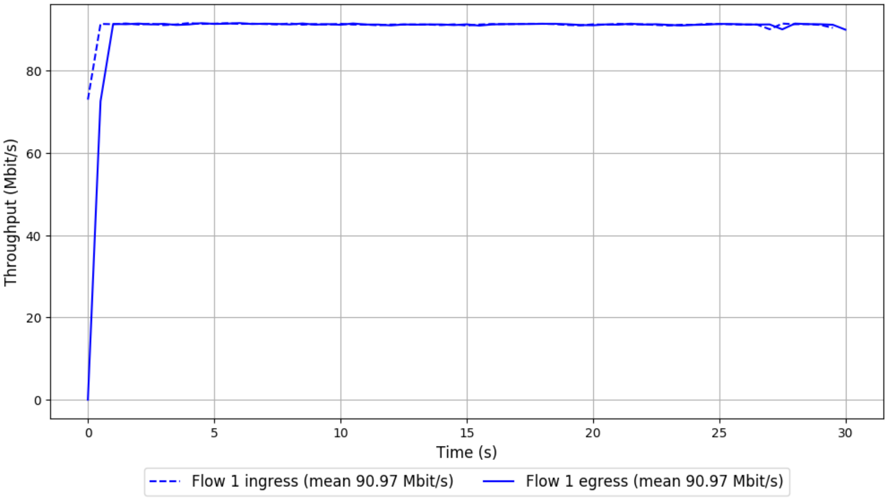
Run 7: Report of TaoVA-100x — Data Link

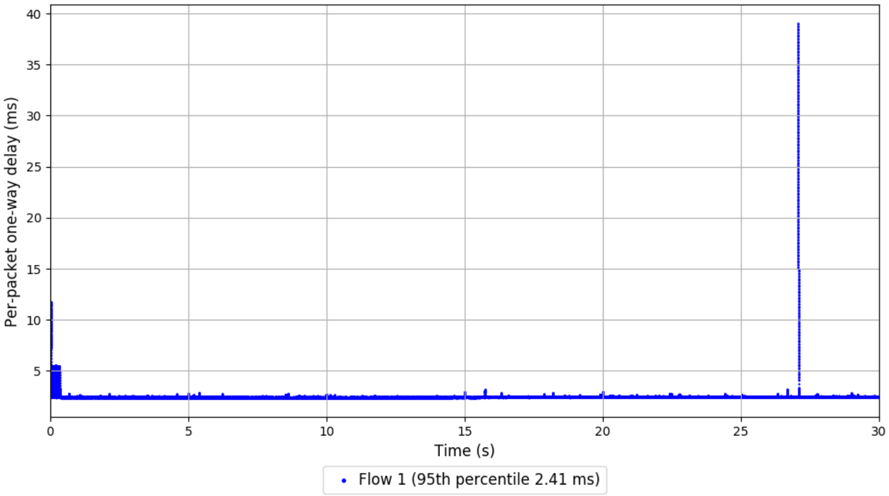




```
Run 8: Statistics of TaoVA-100x

Start at: 2018-08-01 18:34:13
End at: 2018-08-01 18:34:43
Local clock offset: -2.912 ms
Remote clock offset: -3.186 ms

# Below is generated by plot.py at 2018-08-01 19:49:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.97 Mbit/s
95th percentile per-packet one-way delay: 2.412 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 90.97 Mbit/s
95th percentile per-packet one-way delay: 2.412 ms
Loss rate: 0.02%
```

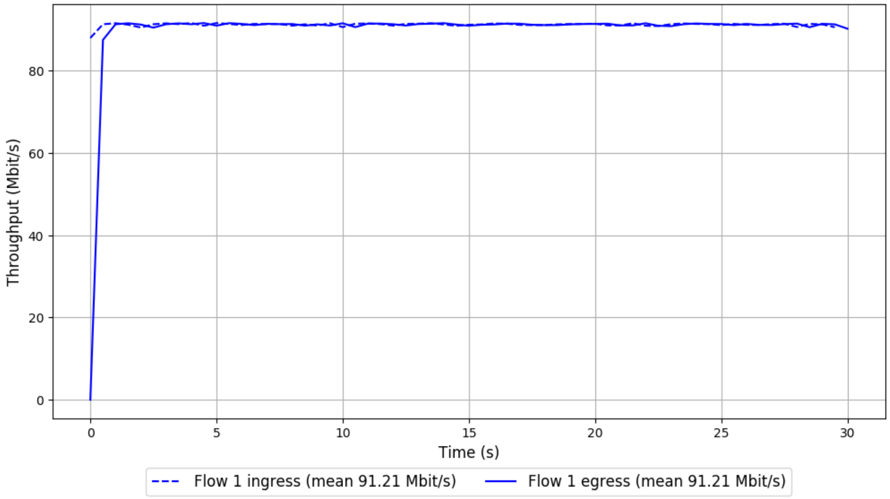
Run 8: Report of TaoVA-100x — Data Link

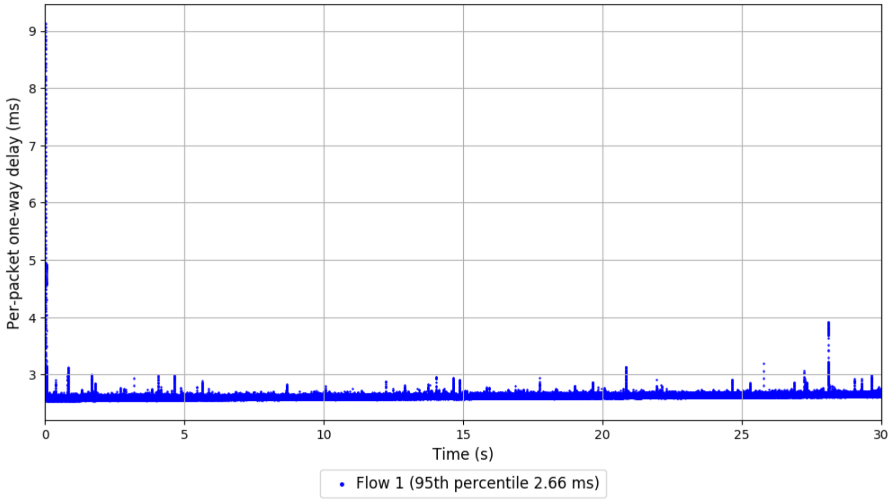




```
Run 9: Statistics of TaoVA-100x

Start at: 2018-08-01 18:53:16
End at: 2018-08-01 18:53:46
Local clock offset: -2.567 ms
Remote clock offset: -1.667 ms

# Below is generated by plot.py at 2018-08-01 19:50:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.21 Mbit/s
95th percentile per-packet one-way delay: 2.657 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 91.21 Mbit/s
95th percentile per-packet one-way delay: 2.657 ms
Loss rate: 0.02%
```

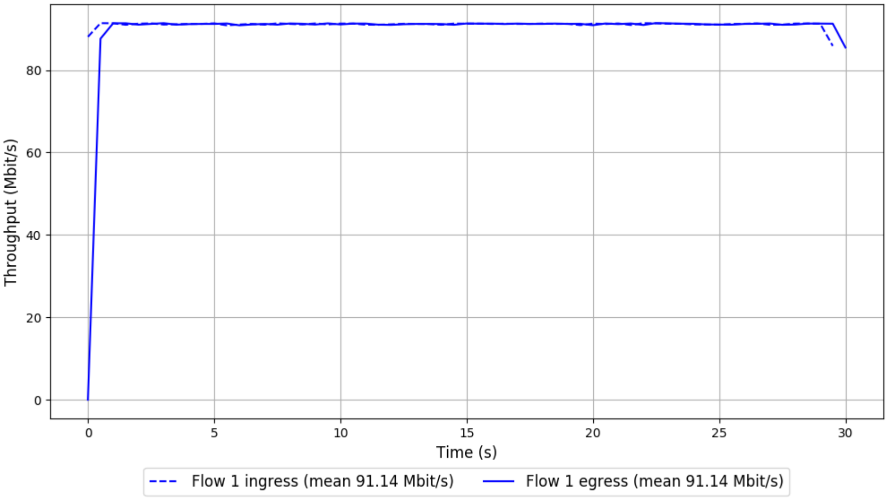
Run 9: Report of TaoVA-100x — Data Link

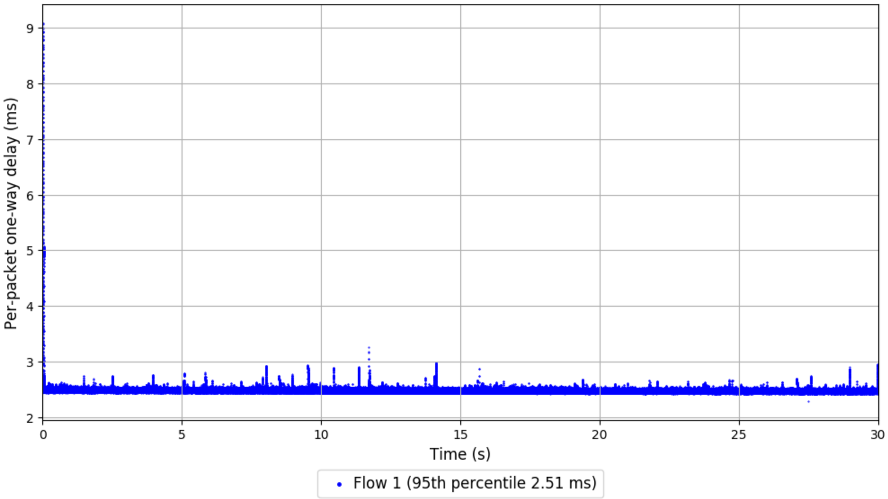




```
Run 10: Statistics of TaoVA-100x

Start at: 2018-08-01 19:12:19
End at: 2018-08-01 19:12:49
Local clock offset: -3.341 ms
Remote clock offset: -1.38 ms

# Below is generated by plot.py at 2018-08-01 19:51:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.14 Mbit/s
95th percentile per-packet one-way delay: 2.511 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 91.14 Mbit/s
95th percentile per-packet one-way delay: 2.511 ms
Loss rate: 0.02%
```

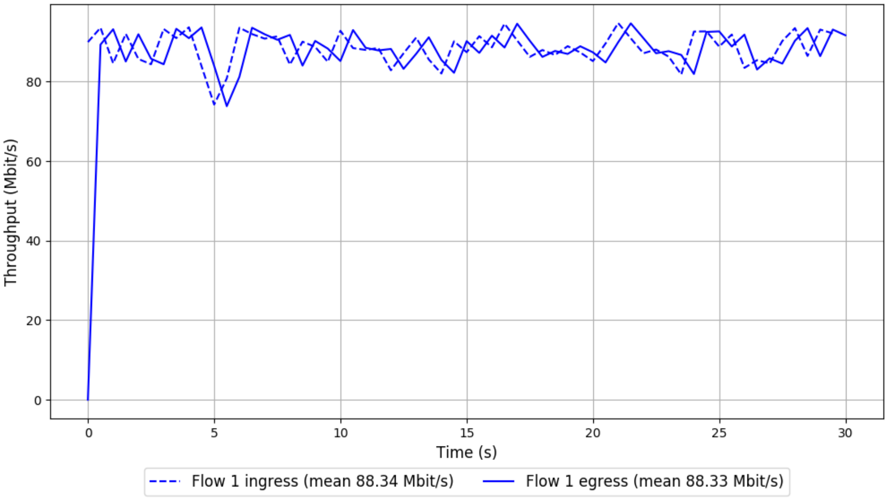
Run 10: Report of TaoVA-100x — Data Link

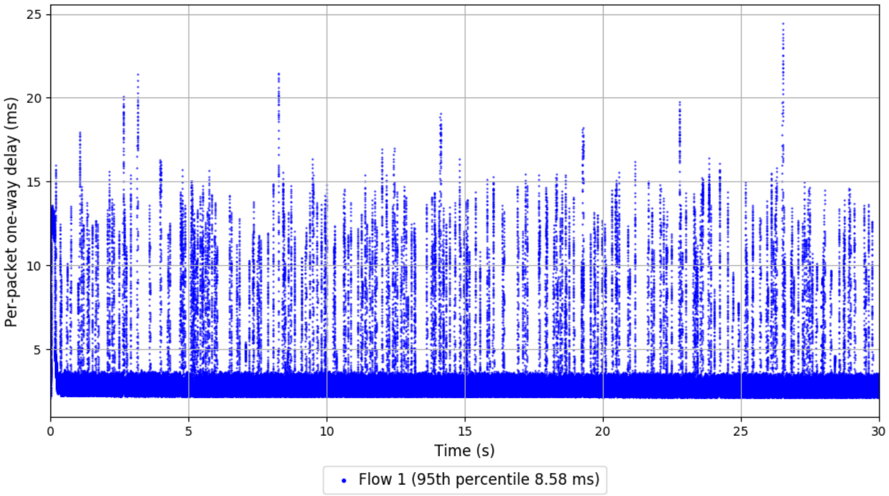




```
Run 1: Statistics of TCP Vegas

Start at: 2018-08-01 16:29:01
End at: 2018-08-01 16:29:31
Local clock offset: -4.588 ms
Remote clock offset: -1.982 ms

# Below is generated by plot.py at 2018-08-01 19:51:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.33 Mbit/s
95th percentile per-packet one-way delay: 8.580 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 88.33 Mbit/s
95th percentile per-packet one-way delay: 8.580 ms
Loss rate: 0.02%
```

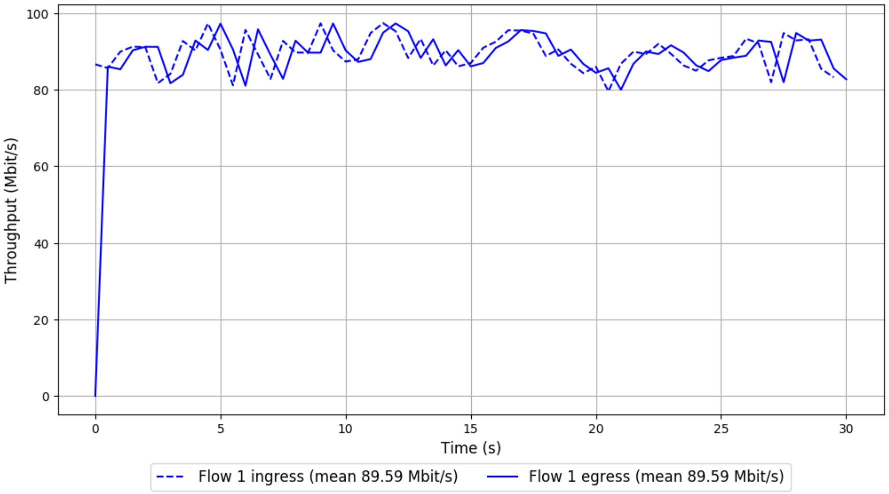
Run 1: Report of TCP Vegas — Data Link

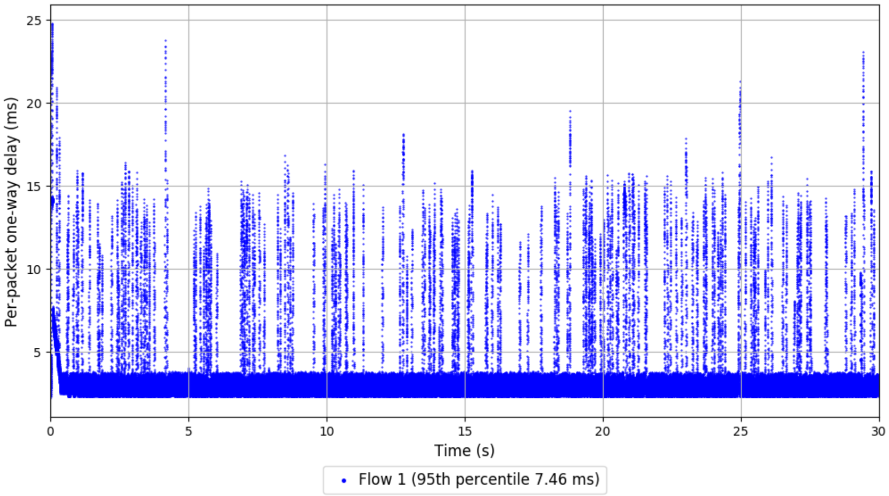




```
Run 2: Statistics of TCP Vegas

Start at: 2018-08-01 16:47:57
End at: 2018-08-01 16:48:27
Local clock offset: -2.627 ms
Remote clock offset: -1.535 ms

# Below is generated by plot.py at 2018-08-01 19:51:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.59 Mbit/s
95th percentile per-packet one-way delay: 7.465 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 89.59 Mbit/s
95th percentile per-packet one-way delay: 7.465 ms
Loss rate: 0.02%
```

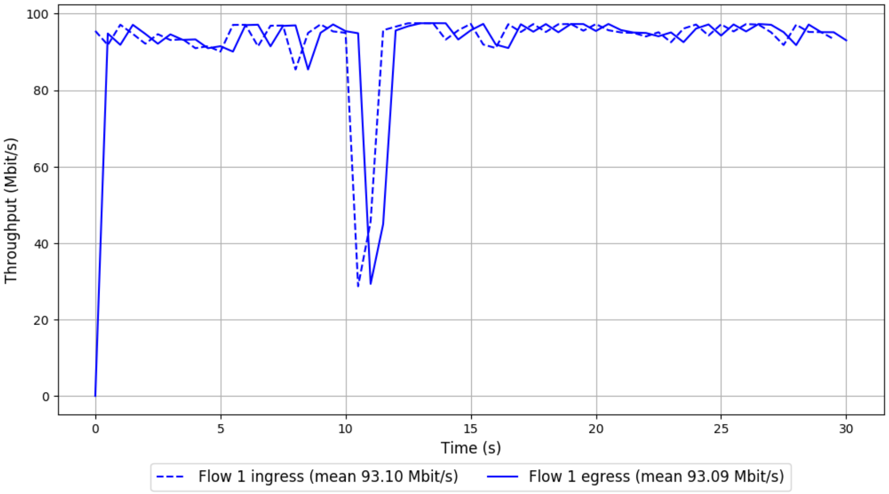
Run 2: Report of TCP Vegas — Data Link

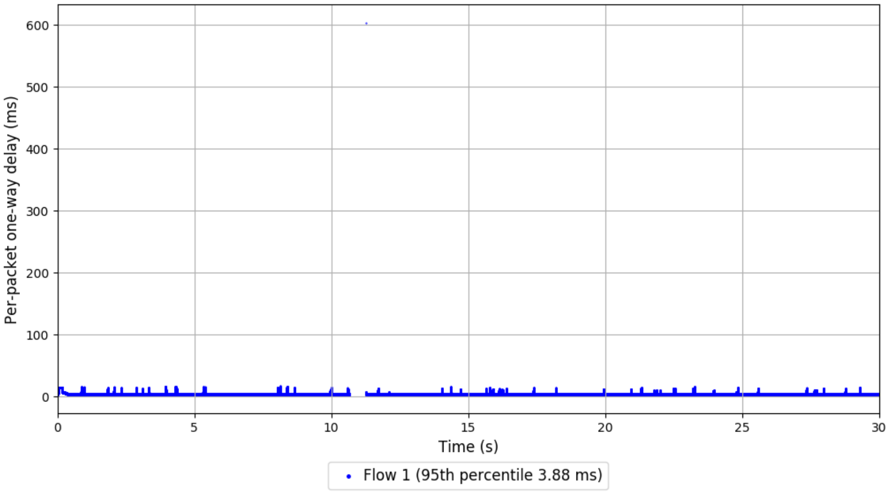




```
Run 3: Statistics of TCP Vegas

Start at: 2018-08-01 17:06:53
End at: 2018-08-01 17:07:23
Local clock offset: -6.09 ms
Remote clock offset: -2.8 ms

# Below is generated by plot.py at 2018-08-01 19:51:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.09 Mbit/s
95th percentile per-packet one-way delay: 3.880 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 93.09 Mbit/s
95th percentile per-packet one-way delay: 3.880 ms
Loss rate: 0.02%
```

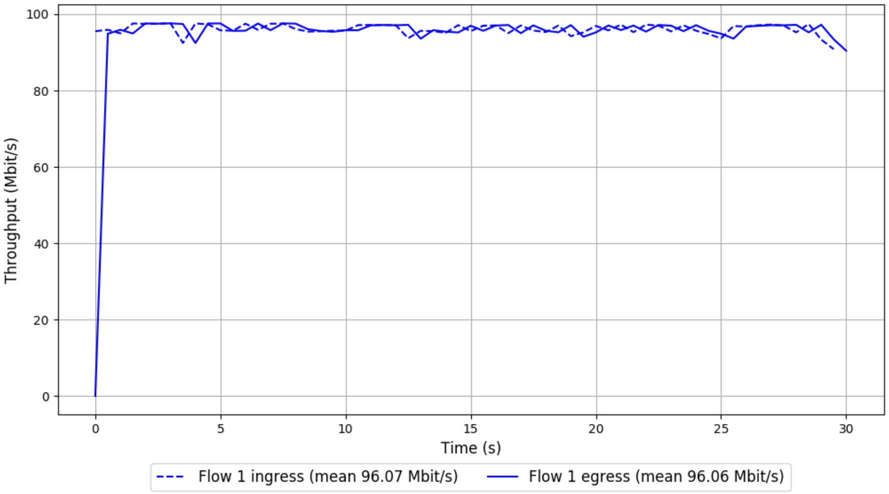
Run 3: Report of TCP Vegas — Data Link

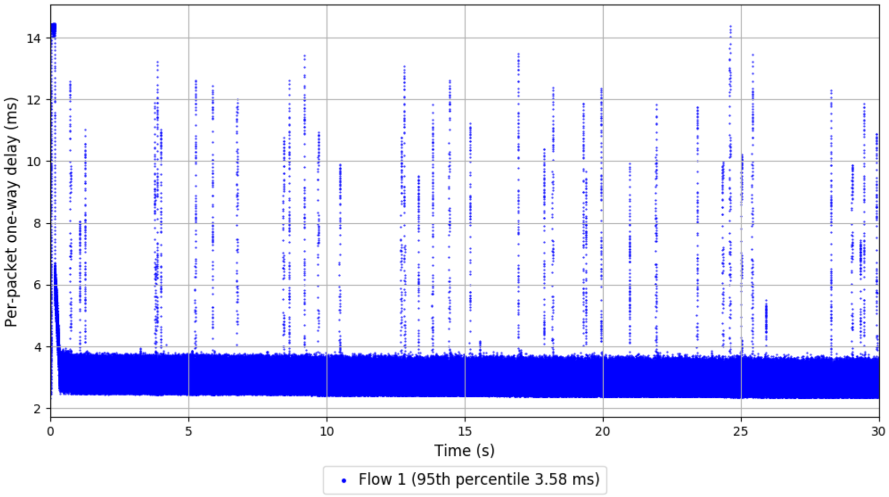




```
Run 4: Statistics of TCP Vegas

Start at: 2018-08-01 17:25:55
End at: 2018-08-01 17:26:25
Local clock offset: -5.643 ms
Remote clock offset: -2.971 ms

# Below is generated by plot.py at 2018-08-01 19:51:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.06 Mbit/s
95th percentile per-packet one-way delay: 3.577 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 96.06 Mbit/s
95th percentile per-packet one-way delay: 3.577 ms
Loss rate: 0.02%
```

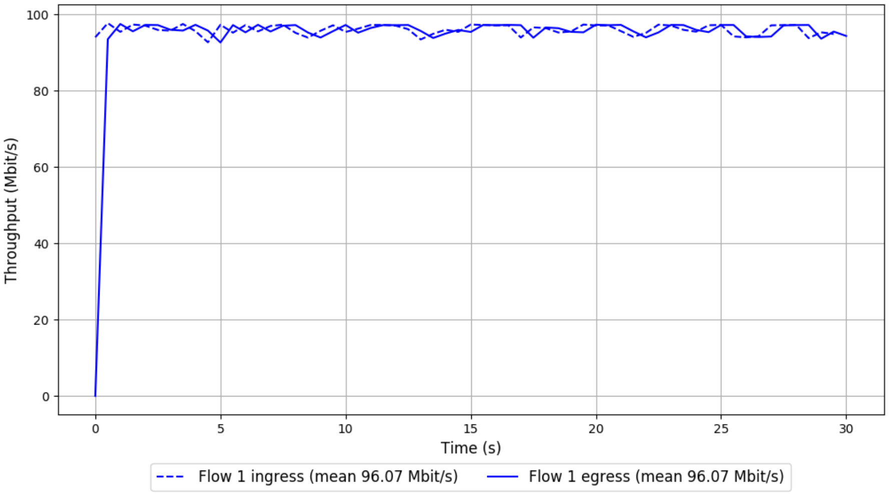
Run 4: Report of TCP Vegas — Data Link

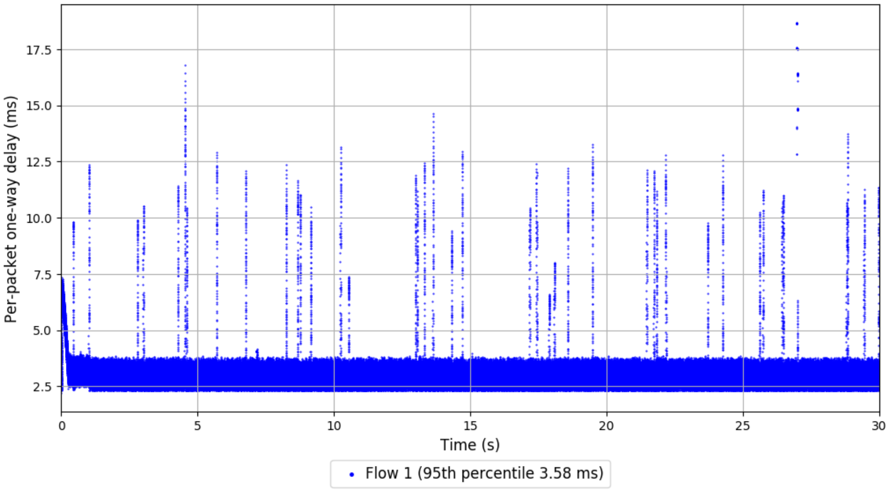




```
Run 5: Statistics of TCP Vegas

Start at: 2018-08-01 17:44:57
End at: 2018-08-01 17:45:27
Local clock offset: -2.973 ms
Remote clock offset: -2.087 ms

# Below is generated by plot.py at 2018-08-01 19:51:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.07 Mbit/s
95th percentile per-packet one-way delay: 3.584 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 96.07 Mbit/s
95th percentile per-packet one-way delay: 3.584 ms
Loss rate: 0.02%
```

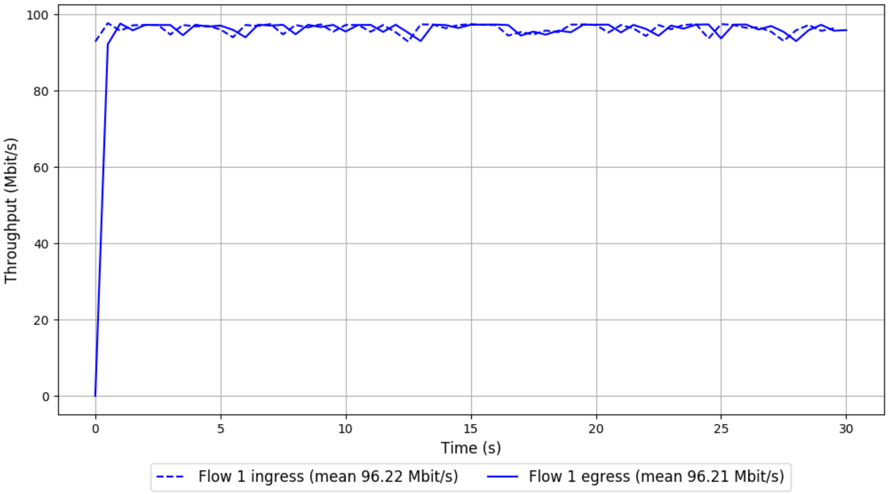
Run 5: Report of TCP Vegas — Data Link

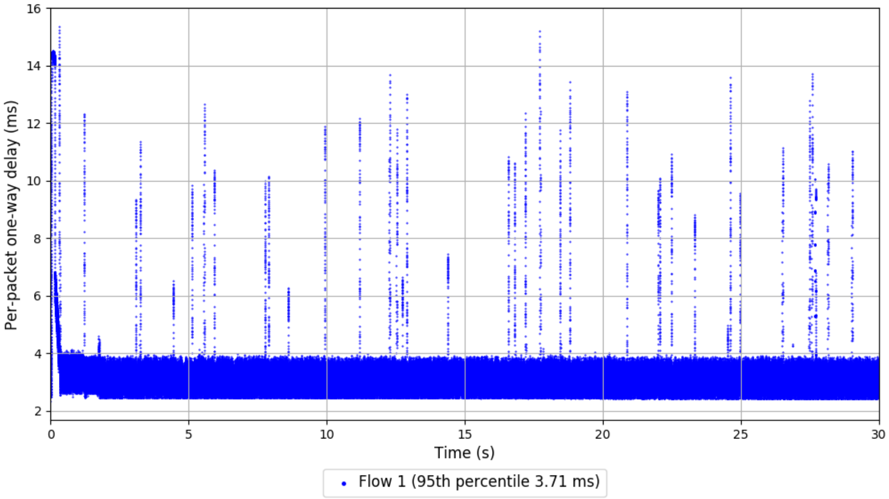




```
Run 6: Statistics of TCP Vegas

Start at: 2018-08-01 18:03:59
End at: 2018-08-01 18:04:29
Local clock offset: -3.154 ms
Remote clock offset: -2.328 ms

# Below is generated by plot.py at 2018-08-01 19:51:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.21 Mbit/s
95th percentile per-packet one-way delay: 3.713 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 96.21 Mbit/s
95th percentile per-packet one-way delay: 3.713 ms
Loss rate: 0.02%
```

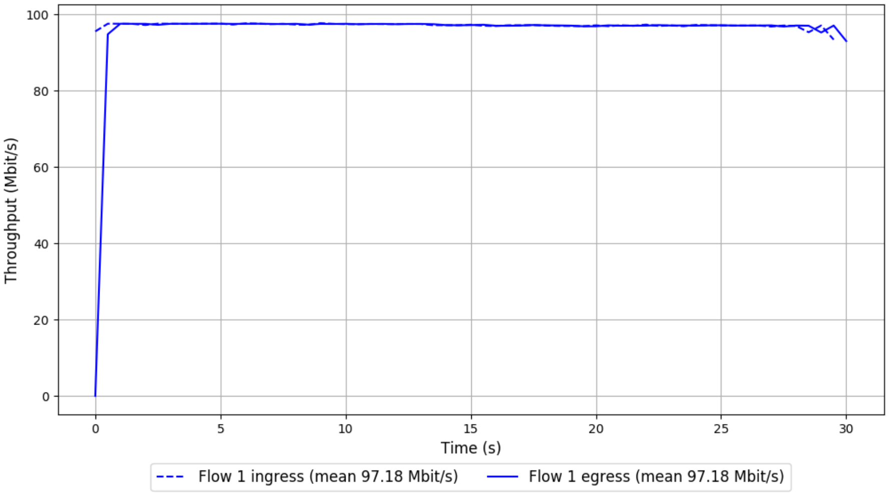
Run 6: Report of TCP Vegas — Data Link

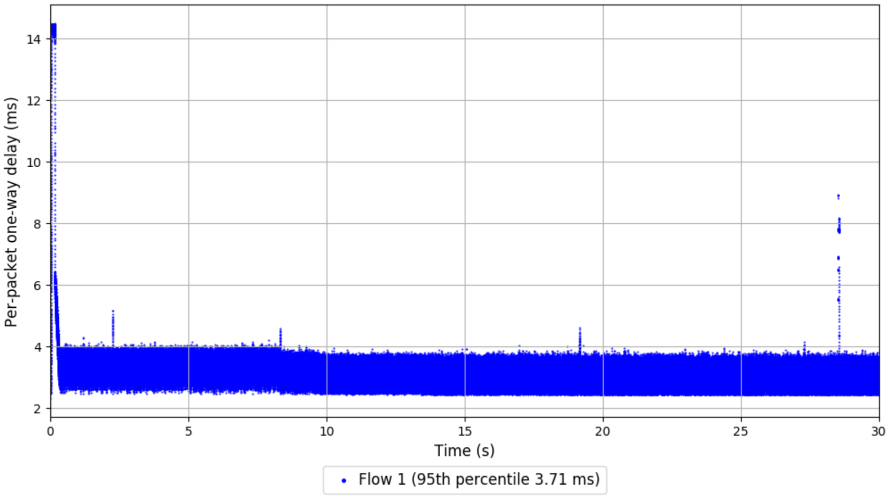




```
Run 7: Statistics of TCP Vegas

Start at: 2018-08-01 18:23:01
End at: 2018-08-01 18:23:31
Local clock offset: -3.094 ms
Remote clock offset: -3.131 ms

# Below is generated by plot.py at 2018-08-01 19:51:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.18 Mbit/s
95th percentile per-packet one-way delay: 3.706 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.18 Mbit/s
95th percentile per-packet one-way delay: 3.706 ms
Loss rate: 0.02%
```

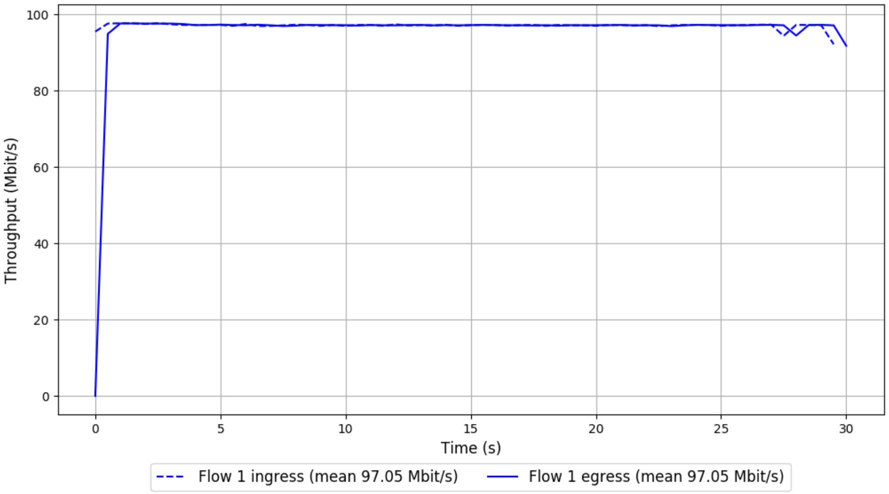
Run 7: Report of TCP Vegas — Data Link

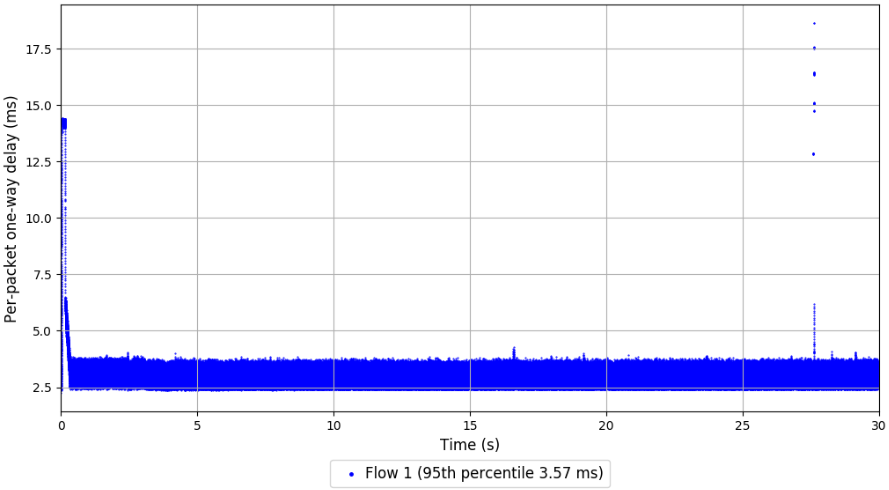




```
Run 8: Statistics of TCP Vegas

Start at: 2018-08-01 18:42:03
End at: 2018-08-01 18:42:33
Local clock offset: -2.693 ms
Remote clock offset: -2.223 ms

# Below is generated by plot.py at 2018-08-01 19:51:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.05 Mbit/s
95th percentile per-packet one-way delay: 3.569 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.05 Mbit/s
95th percentile per-packet one-way delay: 3.569 ms
Loss rate: 0.02%
```

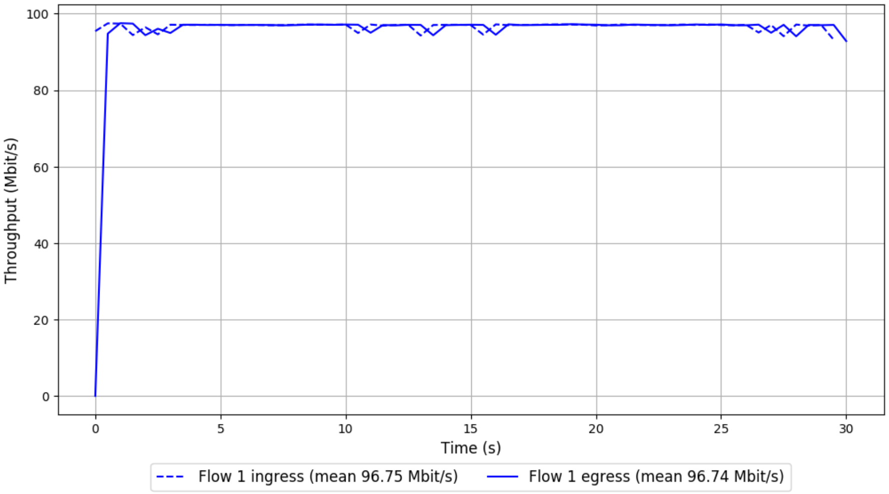
Run 8: Report of TCP Vegas — Data Link

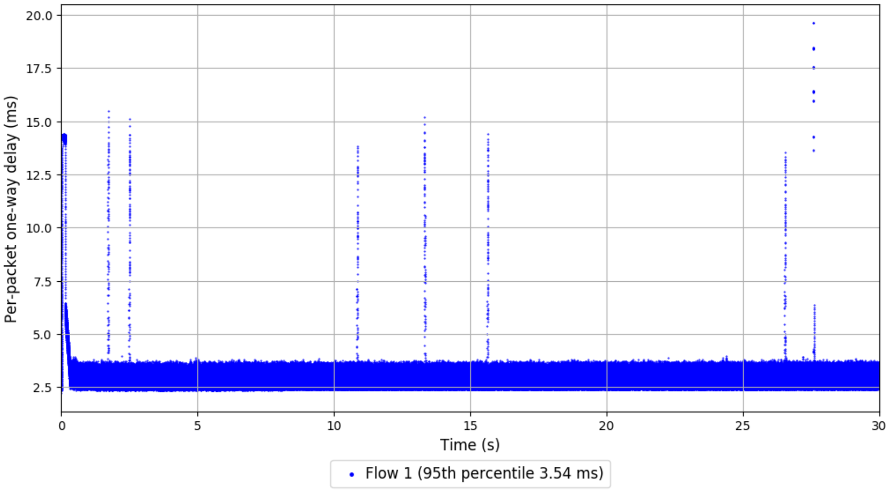




```
Run 9: Statistics of TCP Vegas

Start at: 2018-08-01 19:01:06
End at: 2018-08-01 19:01:36
Local clock offset: -3.168 ms
Remote clock offset: -1.287 ms

# Below is generated by plot.py at 2018-08-01 19:51:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.74 Mbit/s
95th percentile per-packet one-way delay: 3.543 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 96.74 Mbit/s
95th percentile per-packet one-way delay: 3.543 ms
Loss rate: 0.02%
```

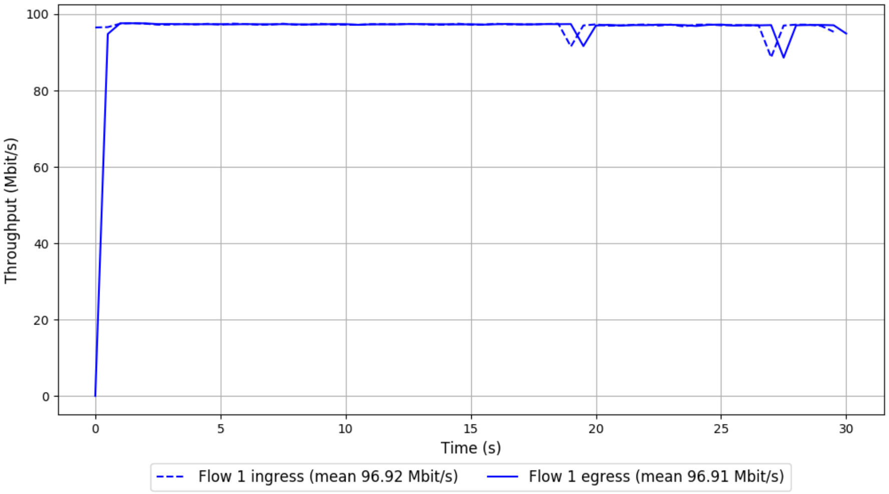
Run 9: Report of TCP Vegas — Data Link

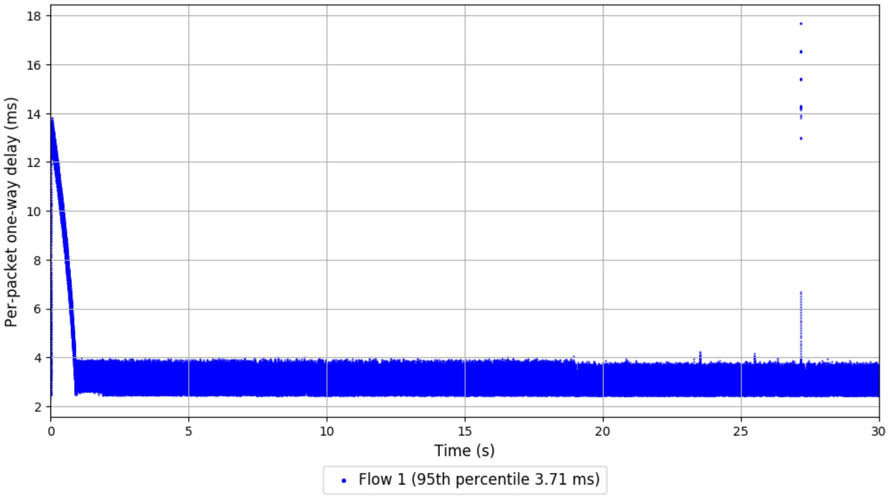




```
Run 10: Statistics of TCP Vegas

Start at: 2018-08-01 19:20:09
End at: 2018-08-01 19:20:39
Local clock offset: -3.391 ms
Remote clock offset: -1.648 ms

# Below is generated by plot.py at 2018-08-01 19:51:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.91 Mbit/s
95th percentile per-packet one-way delay: 3.710 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 96.91 Mbit/s
95th percentile per-packet one-way delay: 3.710 ms
Loss rate: 0.02%
```

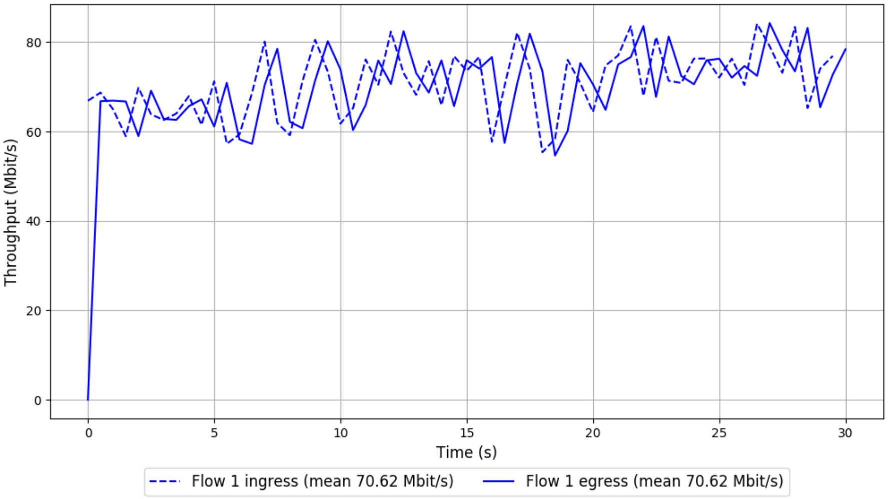
Run 10: Report of TCP Vegas — Data Link

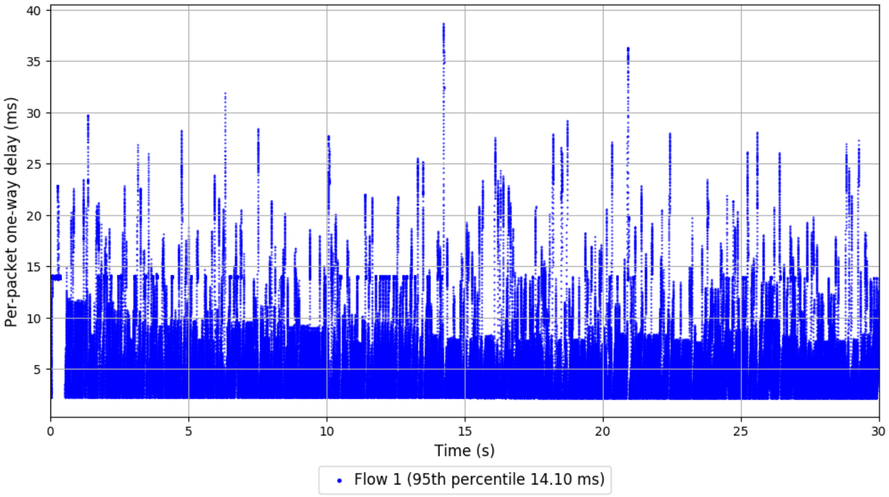




```
Run 1: Statistics of Verus

Start at: 2018-08-01 16:26:48
End at: 2018-08-01 16:27:18
Local clock offset: -4.955 ms
Remote clock offset: -1.944 ms

# Below is generated by plot.py at 2018-08-01 19:51:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.62 Mbit/s
95th percentile per-packet one-way delay: 14.099 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 70.62 Mbit/s
95th percentile per-packet one-way delay: 14.099 ms
Loss rate: 0.02%
```

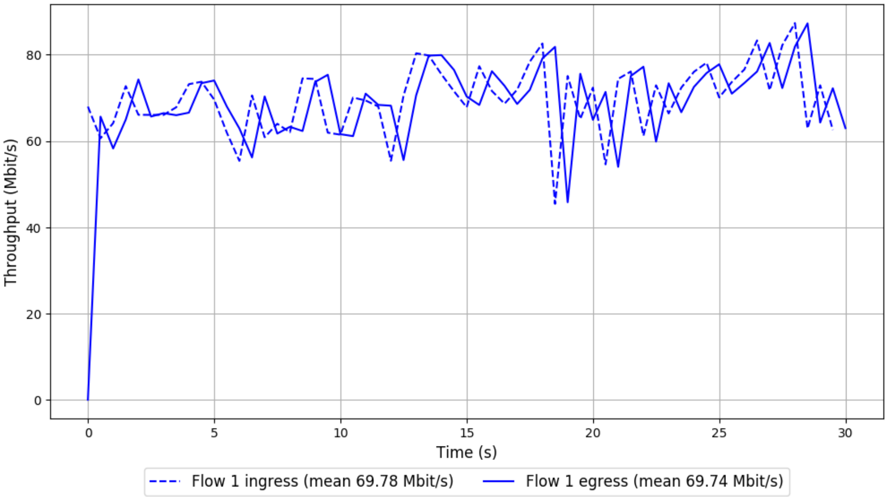
Run 1: Report of Verus — Data Link

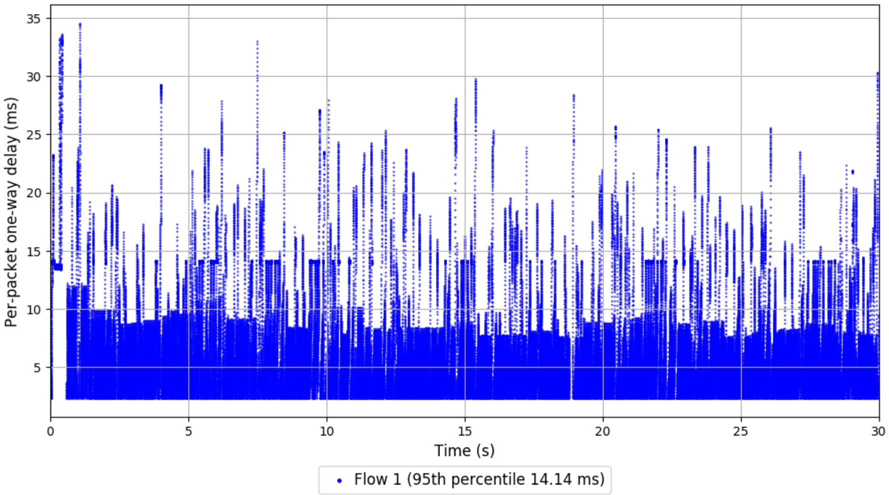




```
Run 2: Statistics of Verus

Start at: 2018-08-01 16:45:44
End at: 2018-08-01 16:46:14
Local clock offset: -2.757 ms
Remote clock offset: -1.634 ms

# Below is generated by plot.py at 2018-08-01 19:51:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.74 Mbit/s
95th percentile per-packet one-way delay: 14.141 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 69.74 Mbit/s
95th percentile per-packet one-way delay: 14.141 ms
Loss rate: 0.06%
```

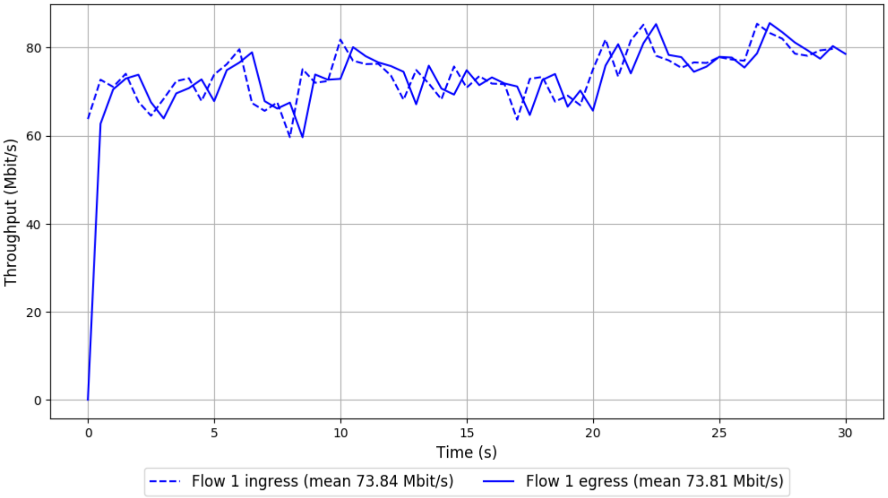
Run 2: Report of Verus — Data Link

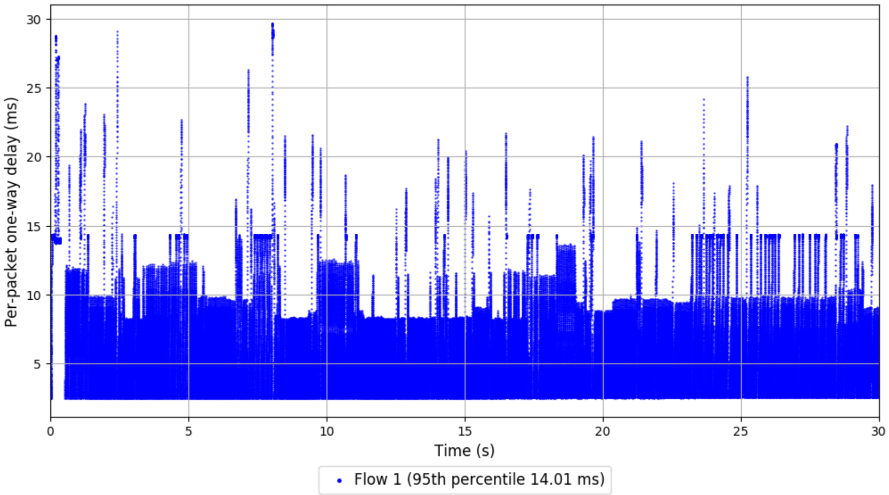




```
Run 3: Statistics of Verus

Start at: 2018-08-01 17:04:40
End at: 2018-08-01 17:05:10
Local clock offset: -5.816 ms
Remote clock offset: -2.723 ms

# Below is generated by plot.py at 2018-08-01 19:51:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.81 Mbit/s
95th percentile per-packet one-way delay: 14.011 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 73.81 Mbit/s
95th percentile per-packet one-way delay: 14.011 ms
Loss rate: 0.06%
```

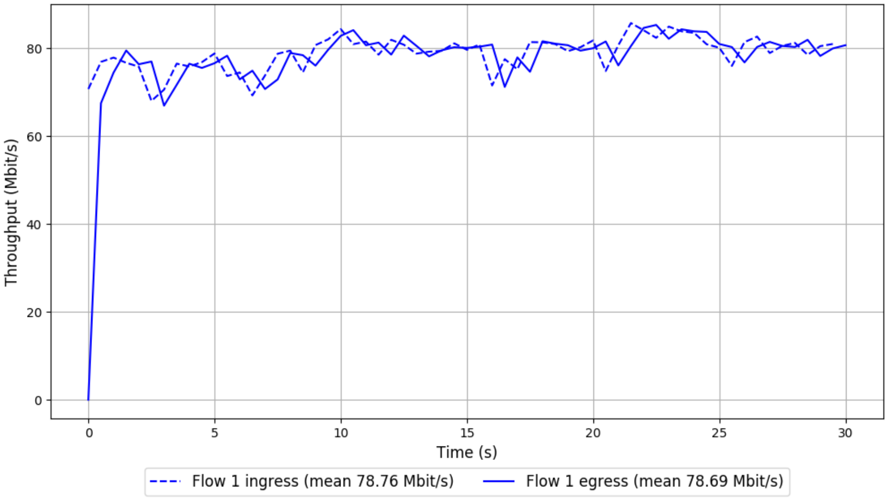
Run 3: Report of Verus — Data Link

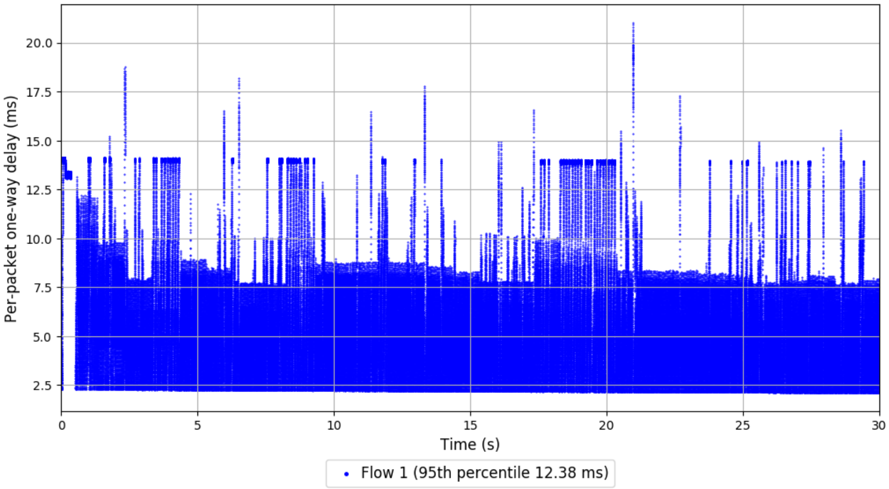




```
Run 4: Statistics of Verus

Start at: 2018-08-01 17:23:42
End at: 2018-08-01 17:24:12
Local clock offset: -6.469 ms
Remote clock offset: -2.95 ms

# Below is generated by plot.py at 2018-08-01 19:52:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.69 Mbit/s
95th percentile per-packet one-way delay: 12.382 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 78.69 Mbit/s
95th percentile per-packet one-way delay: 12.382 ms
Loss rate: 0.10%
```

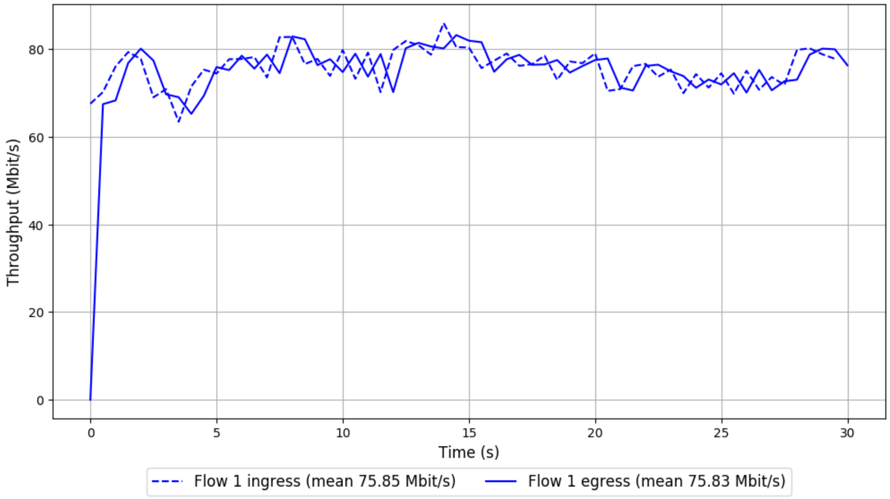
Run 4: Report of Verus — Data Link

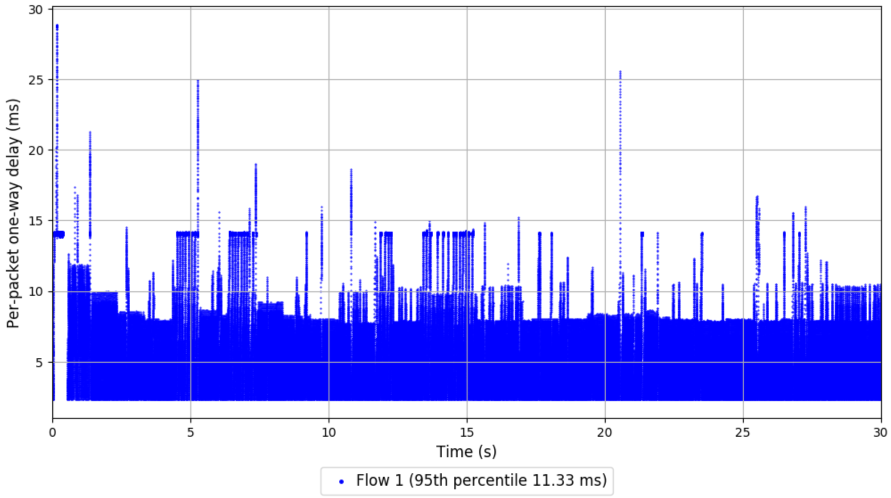




```
Run 5: Statistics of Verus

Start at: 2018-08-01 17:42:44
End at: 2018-08-01 17:43:14
Local clock offset: -3.118 ms
Remote clock offset: -2.153 ms

# Below is generated by plot.py at 2018-08-01 19:52:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.83 Mbit/s
95th percentile per-packet one-way delay: 11.333 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 75.83 Mbit/s
95th percentile per-packet one-way delay: 11.333 ms
Loss rate: 0.04%
```

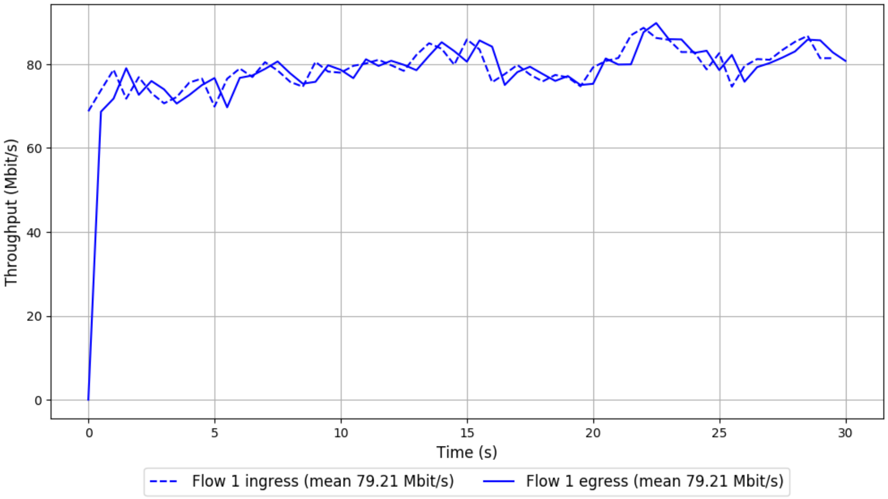
Run 5: Report of Verus — Data Link

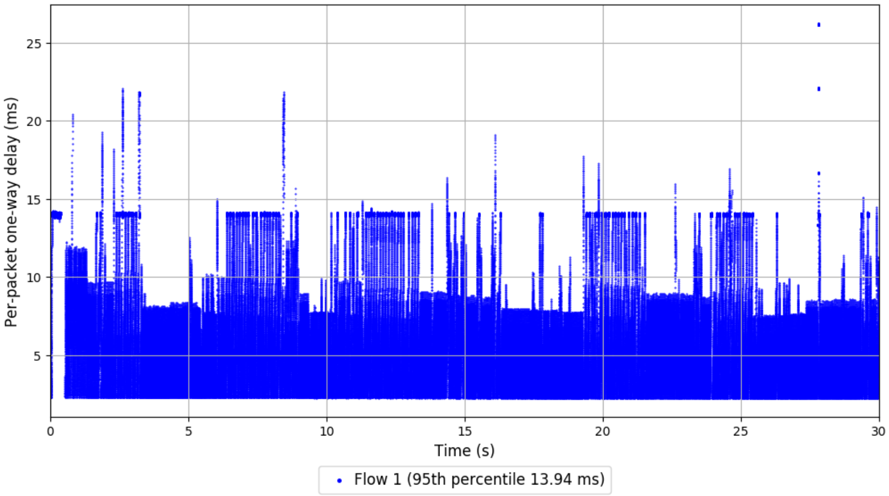




```
Run 6: Statistics of Verus

Start at: 2018-08-01 18:01:46
End at: 2018-08-01 18:02:16
Local clock offset: -3.186 ms
Remote clock offset: -1.983 ms

# Below is generated by plot.py at 2018-08-01 19:52:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.21 Mbit/s
95th percentile per-packet one-way delay: 13.935 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 79.21 Mbit/s
95th percentile per-packet one-way delay: 13.935 ms
Loss rate: 0.02%
```

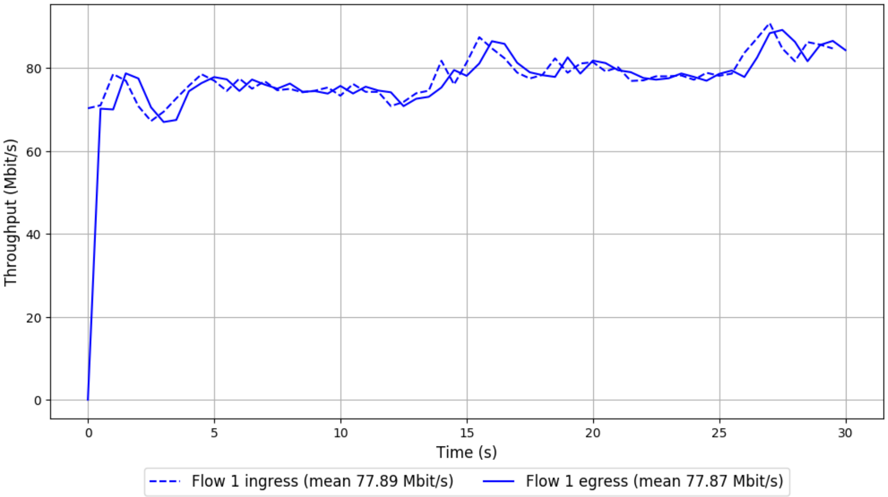
Run 6: Report of Verus — Data Link

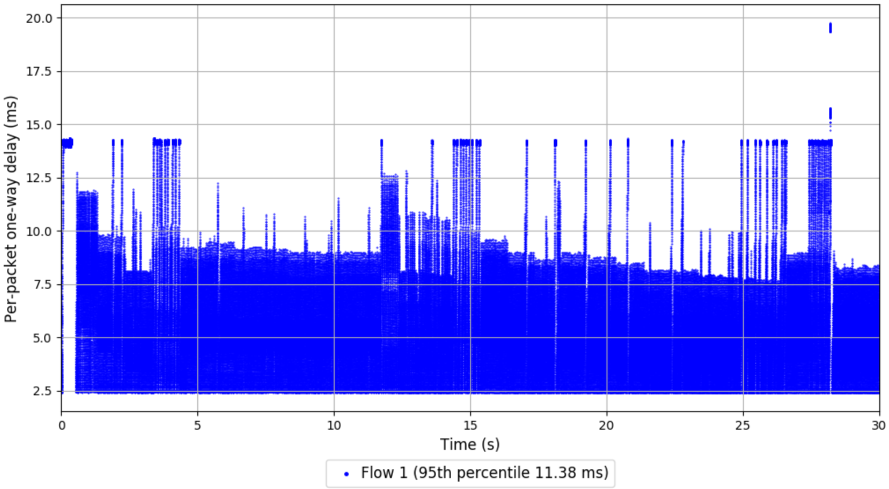




```
Run 7: Statistics of Verus

Start at: 2018-08-01 18:20:48
End at: 2018-08-01 18:21:18
Local clock offset: -3.113 ms
Remote clock offset: -3.057 ms

# Below is generated by plot.py at 2018-08-01 19:52:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.87 Mbit/s
95th percentile per-packet one-way delay: 11.381 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 77.87 Mbit/s
95th percentile per-packet one-way delay: 11.381 ms
Loss rate: 0.02%
```

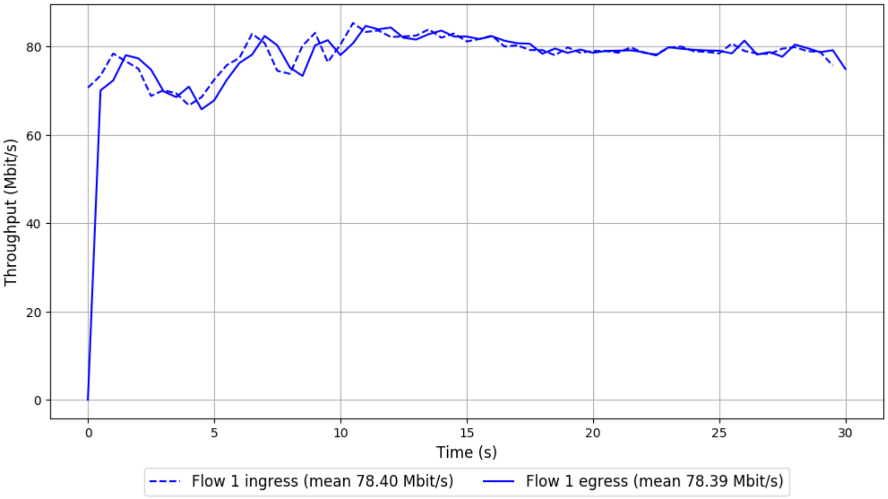
Run 7: Report of Verus — Data Link

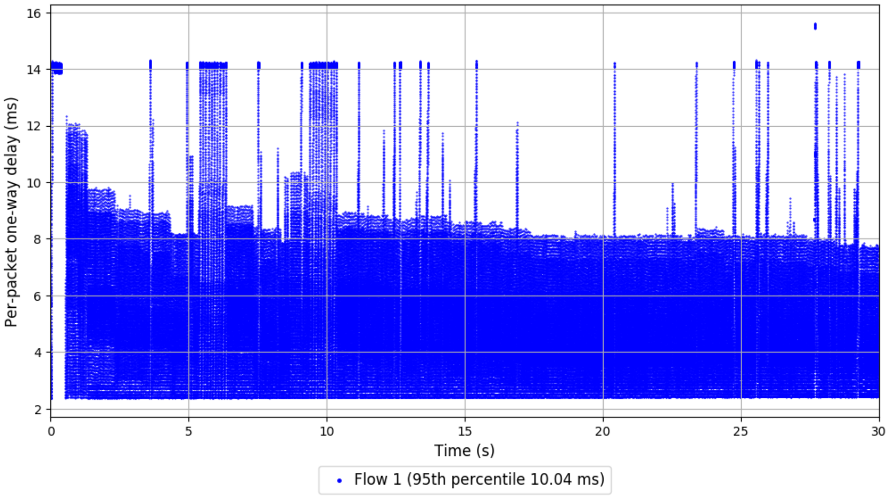




```
Run 8: Statistics of Verus

Start at: 2018-08-01 18:39:50
End at: 2018-08-01 18:40:20
Local clock offset: -2.743 ms
Remote clock offset: -2.435 ms

# Below is generated by plot.py at 2018-08-01 19:52:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.39 Mbit/s
95th percentile per-packet one-way delay: 10.045 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 78.39 Mbit/s
95th percentile per-packet one-way delay: 10.045 ms
Loss rate: 0.04%
```

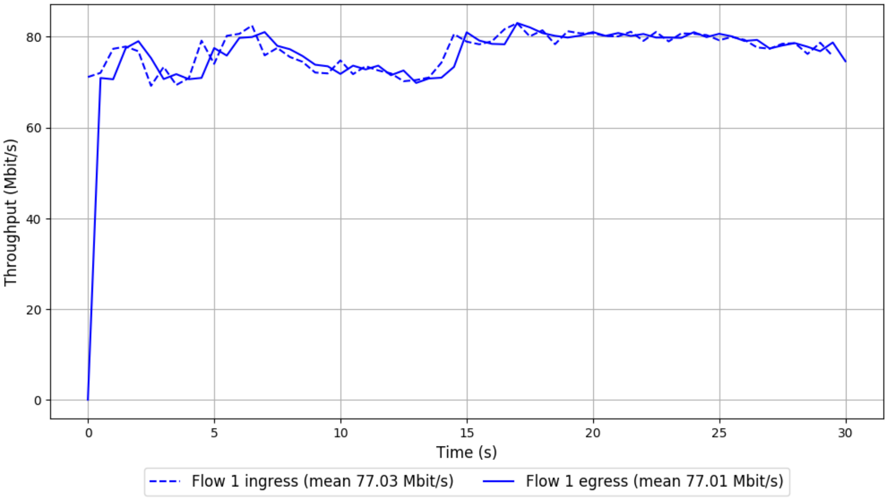
Run 8: Report of Verus — Data Link

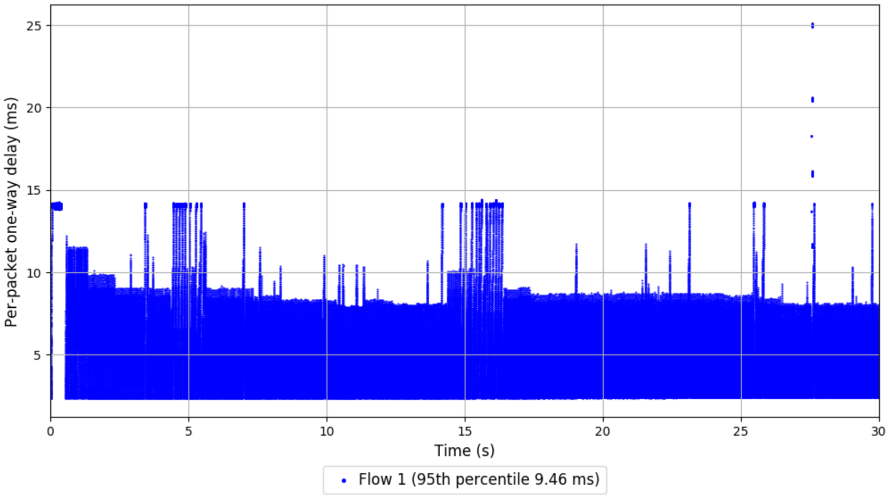




```
Run 9: Statistics of Verus

Start at: 2018-08-01 18:58:53
End at: 2018-08-01 18:59:23
Local clock offset: -3.074 ms
Remote clock offset: -1.326 ms

# Below is generated by plot.py at 2018-08-01 19:52:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.01 Mbit/s
95th percentile per-packet one-way delay: 9.455 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 77.01 Mbit/s
95th percentile per-packet one-way delay: 9.455 ms
Loss rate: 0.04%
```

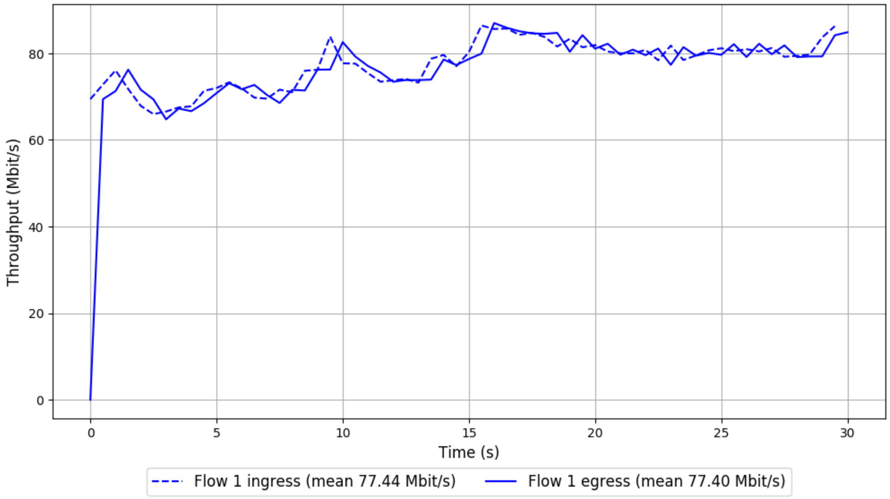
Run 9: Report of Verus — Data Link

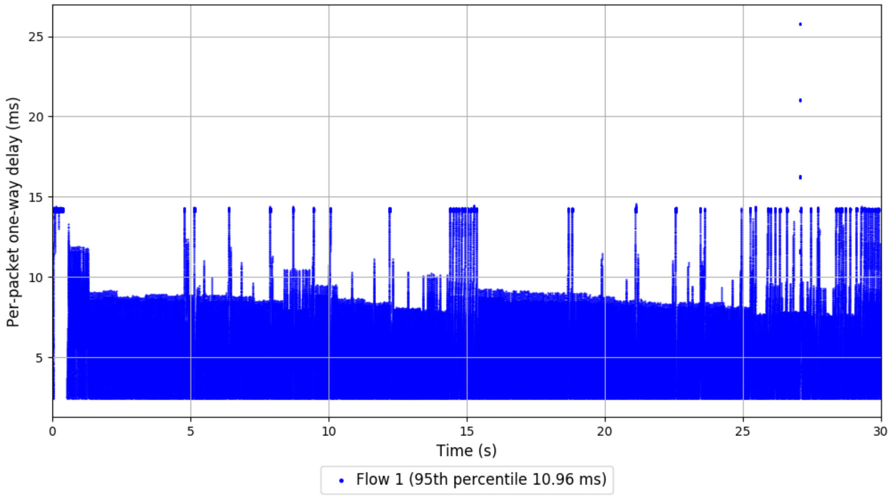




```
Run 10: Statistics of Verus

Start at: 2018-08-01 19:17:56
End at: 2018-08-01 19:18:26
Local clock offset: -3.385 ms
Remote clock offset: -1.585 ms

# Below is generated by plot.py at 2018-08-01 19:52:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.40 Mbit/s
95th percentile per-packet one-way delay: 10.959 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 77.40 Mbit/s
95th percentile per-packet one-way delay: 10.959 ms
Loss rate: 0.04%
```

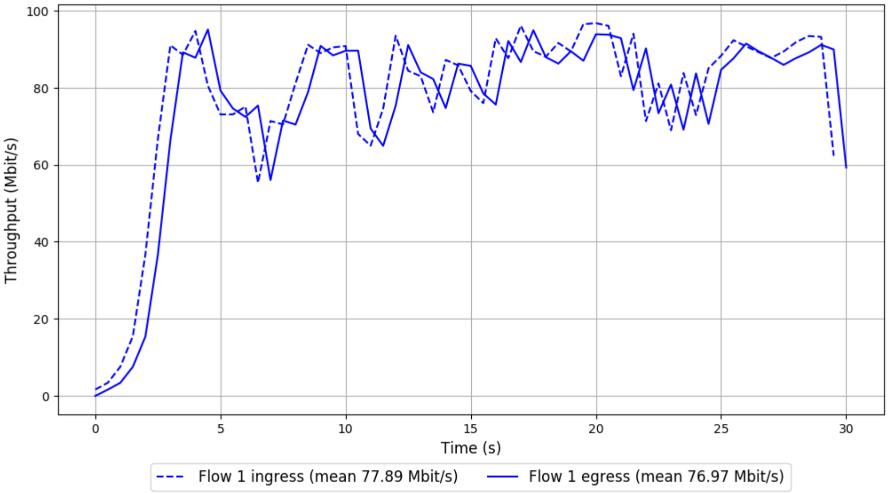
Run 10: Report of Verus — Data Link

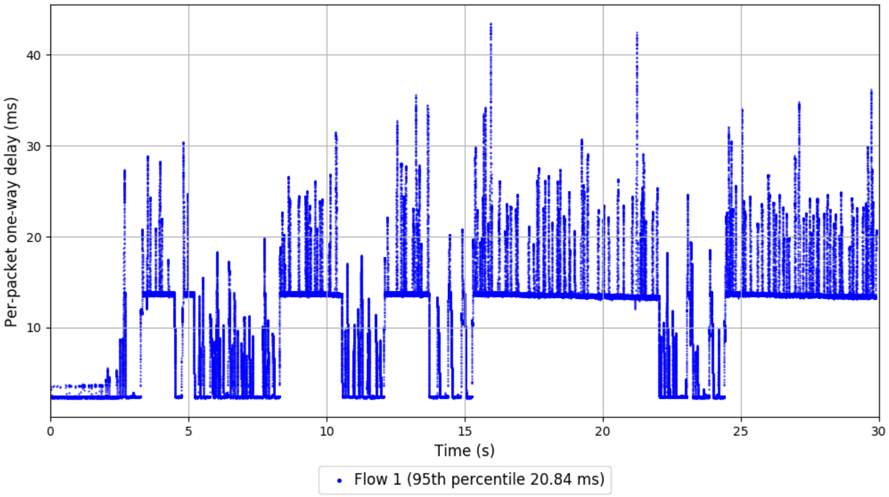




```
Run 1: Statistics of PCC-Vivace

Start at: 2018-08-01 16:20:05
End at: 2018-08-01 16:20:35
Local clock offset: -6.213 ms
Remote clock offset: -1.693 ms

# Below is generated by plot.py at 2018-08-01 19:53:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.97 Mbit/s
95th percentile per-packet one-way delay: 20.836 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 76.97 Mbit/s
95th percentile per-packet one-way delay: 20.836 ms
Loss rate: 1.22%
```

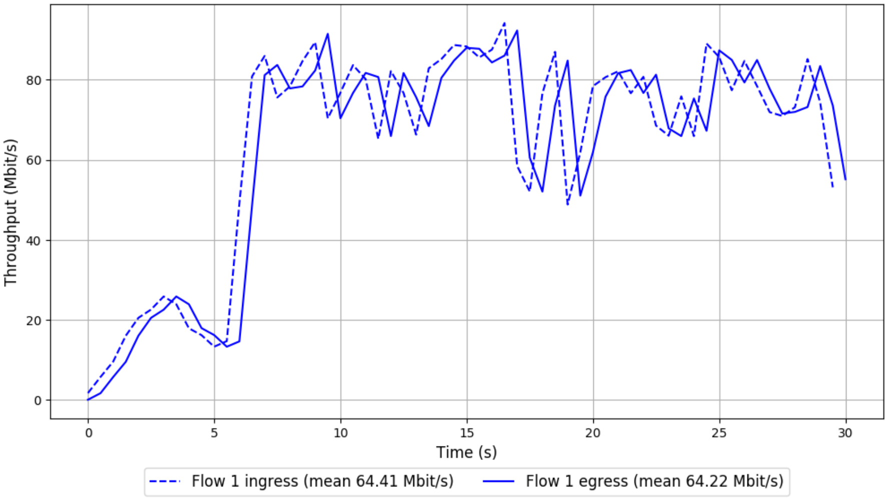
Run 1: Report of PCC-Vivace — Data Link

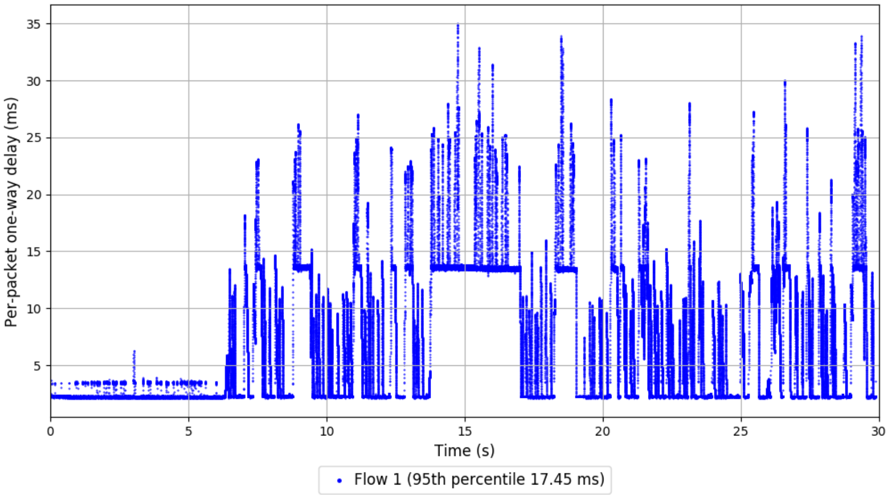




```
Run 2: Statistics of PCC-Vivace

Start at: 2018-08-01 16:39:02
End at: 2018-08-01 16:39:32
Local clock offset: -3.246 ms
Remote clock offset: -1.853 ms

# Below is generated by plot.py at 2018-08-01 19:53:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.22 Mbit/s
95th percentile per-packet one-way delay: 17.453 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 64.22 Mbit/s
95th percentile per-packet one-way delay: 17.453 ms
Loss rate: 0.31%
```

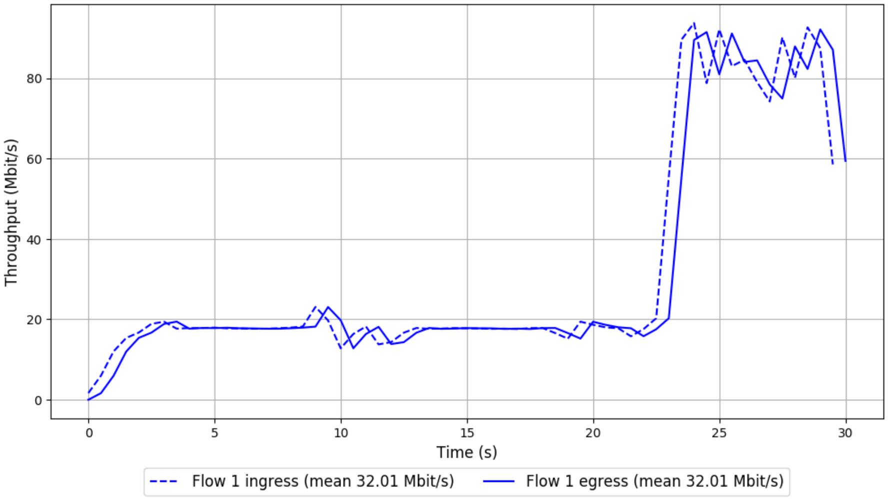
Run 2: Report of PCC-Vivace — Data Link

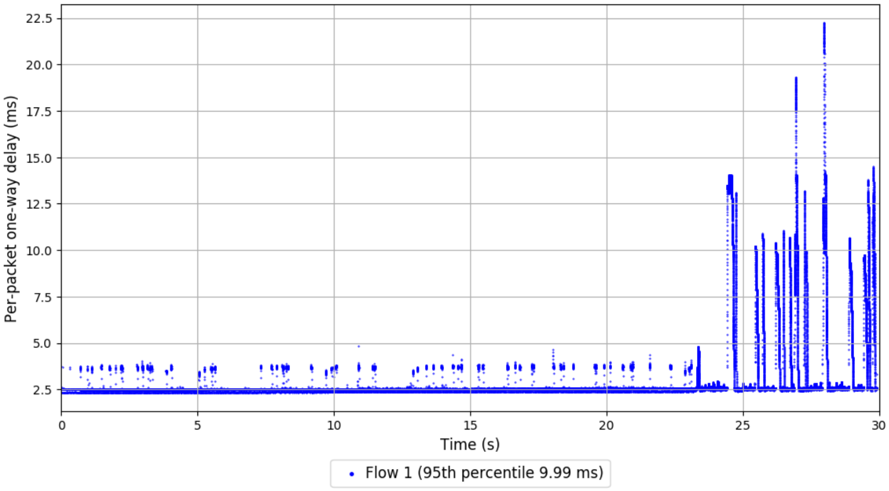




```
Run 3: Statistics of PCC-Vivace

Start at: 2018-08-01 16:57:59
End at: 2018-08-01 16:58:29
Local clock offset: -4.455 ms
Remote clock offset: -2.277 ms

# Below is generated by plot.py at 2018-08-01 19:53:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.01 Mbit/s
95th percentile per-packet one-way delay: 9.994 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 32.01 Mbit/s
95th percentile per-packet one-way delay: 9.994 ms
Loss rate: 0.03%
```

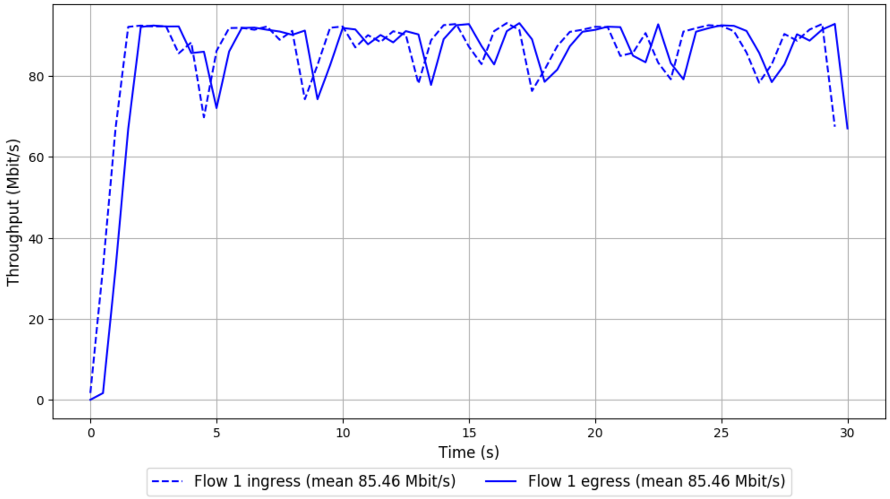
Run 3: Report of PCC-Vivace — Data Link

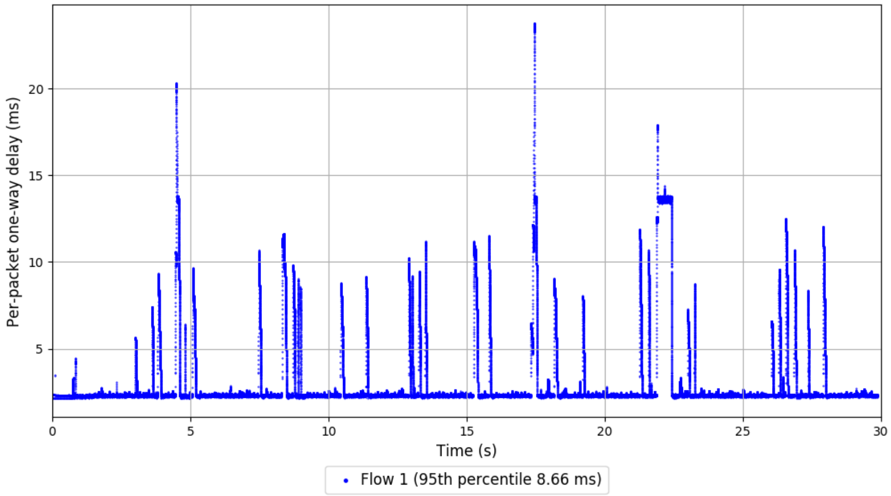




```
Run 4: Statistics of PCC-Vivace

Start at: 2018-08-01 17:16:58
End at: 2018-08-01 17:17:28
Local clock offset: -6.856 ms
Remote clock offset: -2.836 ms

# Below is generated by plot.py at 2018-08-01 19:53:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.46 Mbit/s
95th percentile per-packet one-way delay: 8.660 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 85.46 Mbit/s
95th percentile per-packet one-way delay: 8.660 ms
Loss rate: 0.02%
```

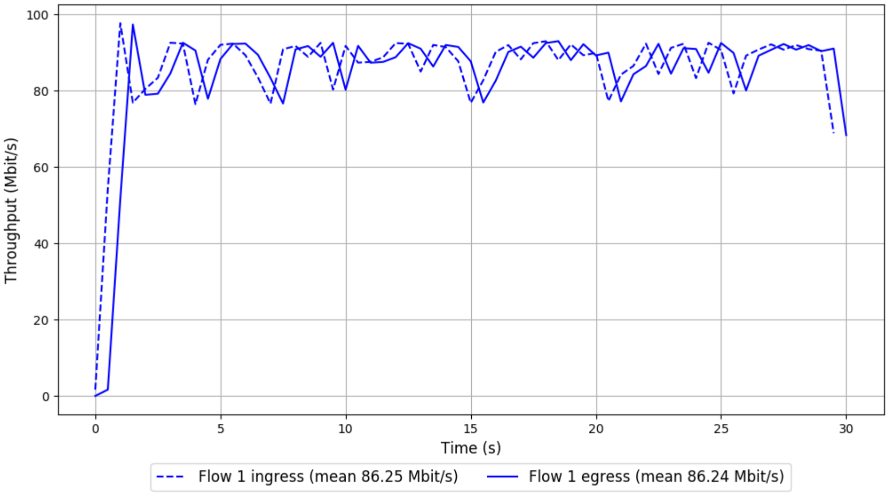
Run 4: Report of PCC-Vivace — Data Link

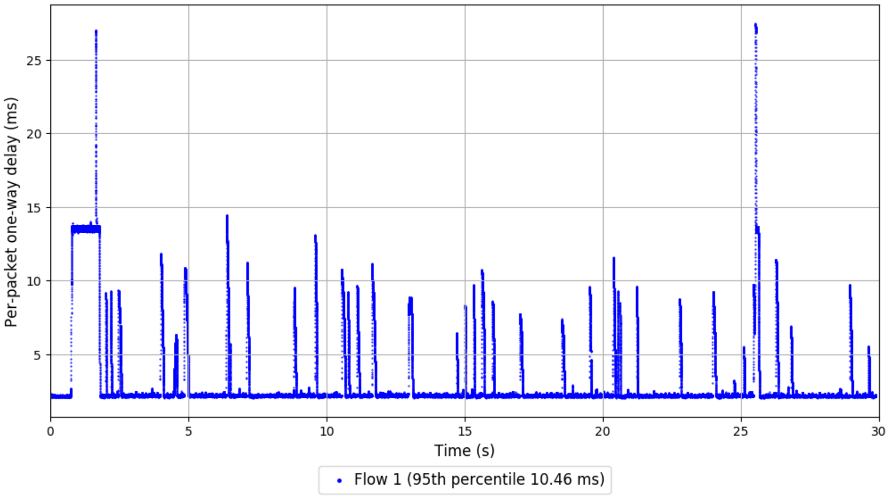




```
Run 5: Statistics of PCC-Vivace

Start at: 2018-08-01 17:35:59
End at: 2018-08-01 17:36:29
Local clock offset: -3.821 ms
Remote clock offset: -2.365 ms

# Below is generated by plot.py at 2018-08-01 19:53:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.24 Mbit/s
95th percentile per-packet one-way delay: 10.463 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 86.24 Mbit/s
95th percentile per-packet one-way delay: 10.463 ms
Loss rate: 0.03%
```

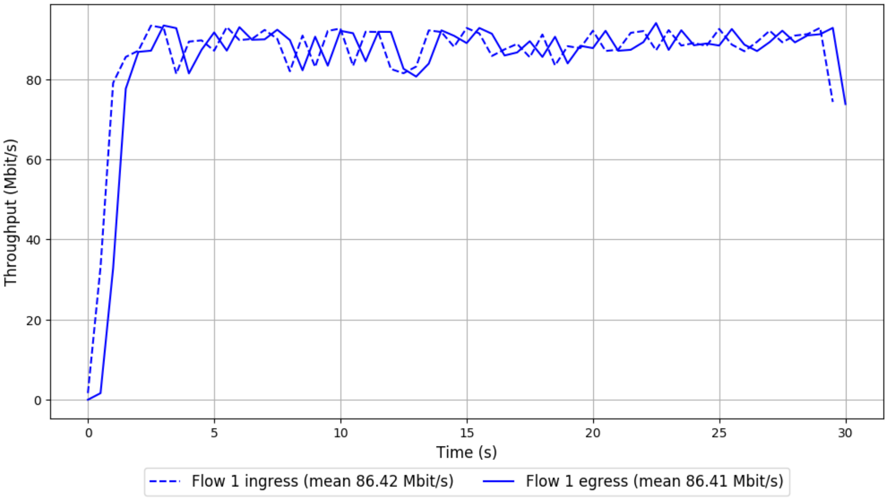
Run 5: Report of PCC-Vivace — Data Link

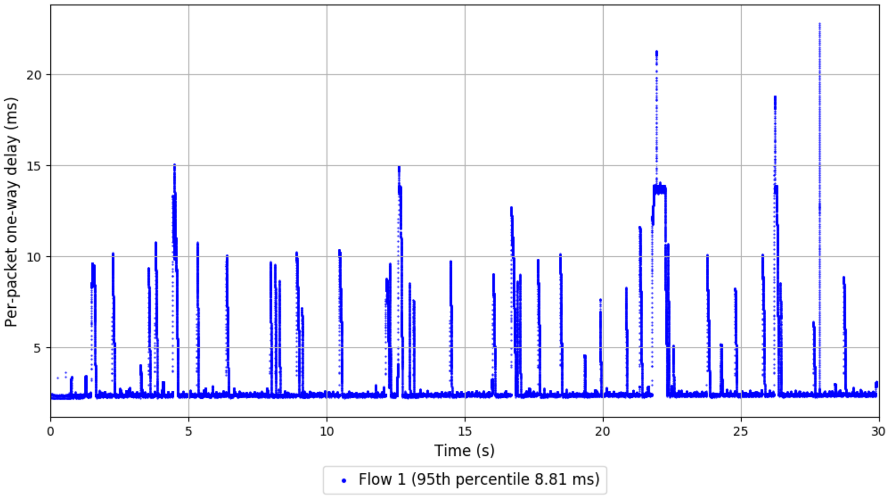




```
Run 6: Statistics of PCC-Vivace

Start at: 2018-08-01 17:55:01
End at: 2018-08-01 17:55:31
Local clock offset: -2.839 ms
Remote clock offset: -1.821 ms

# Below is generated by plot.py at 2018-08-01 19:53:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.41 Mbit/s
95th percentile per-packet one-way delay: 8.810 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 86.41 Mbit/s
95th percentile per-packet one-way delay: 8.810 ms
Loss rate: 0.02%
```

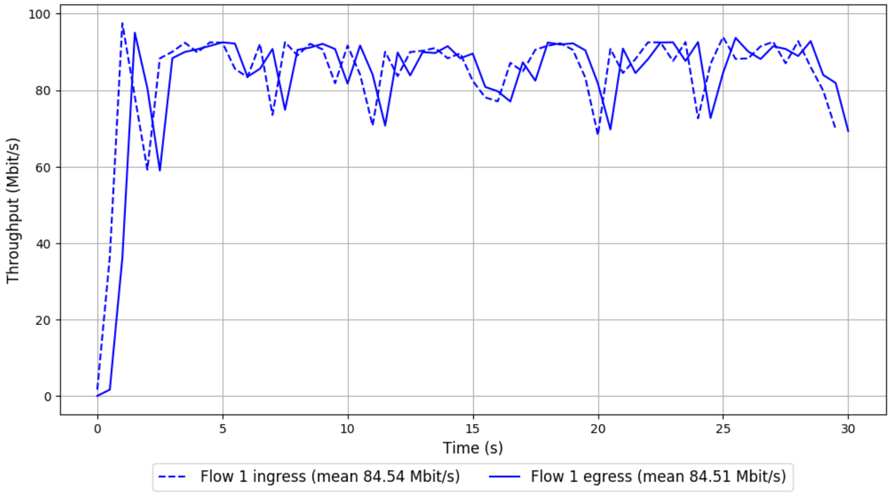
Run 6: Report of PCC-Vivace — Data Link

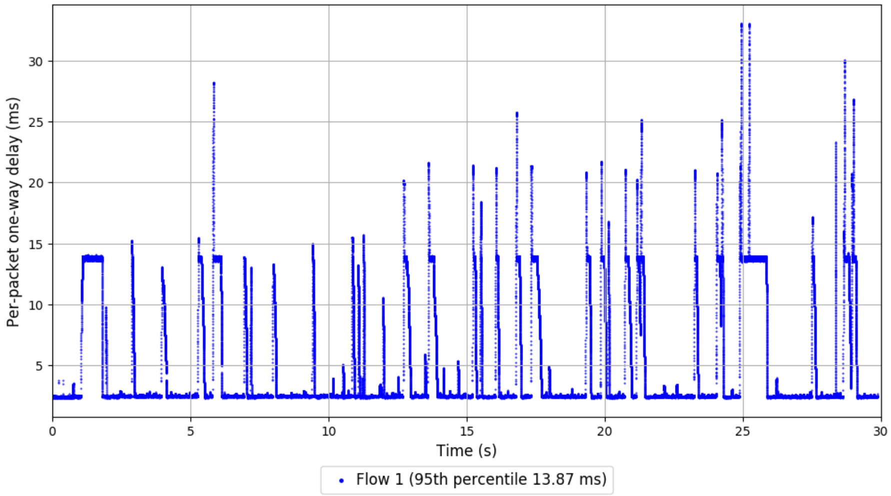




```
Run 7: Statistics of PCC-Vivace

Start at: 2018-08-01 18:14:03
End at: 2018-08-01 18:14:33
Local clock offset: -3.199 ms
Remote clock offset: -2.972 ms

# Below is generated by plot.py at 2018-08-01 19:53:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.51 Mbit/s
95th percentile per-packet one-way delay: 13.865 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 84.51 Mbit/s
95th percentile per-packet one-way delay: 13.865 ms
Loss rate: 0.05%
```

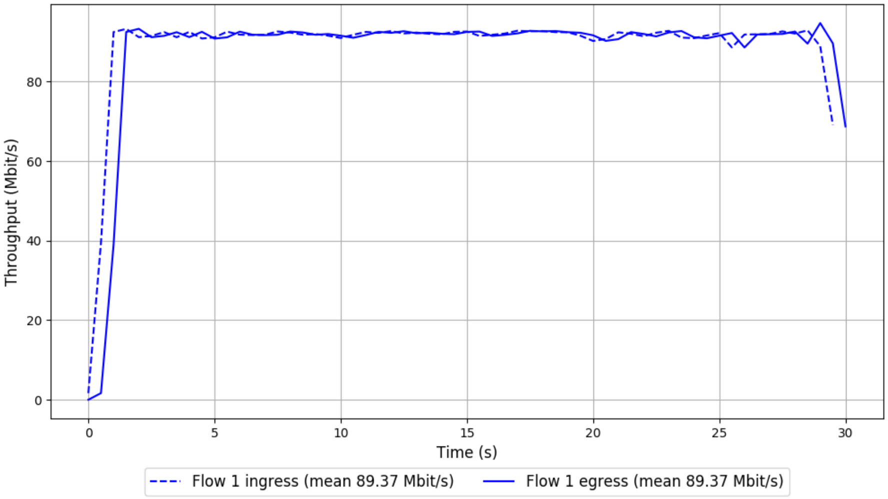
Run 7: Report of PCC-Vivace — Data Link

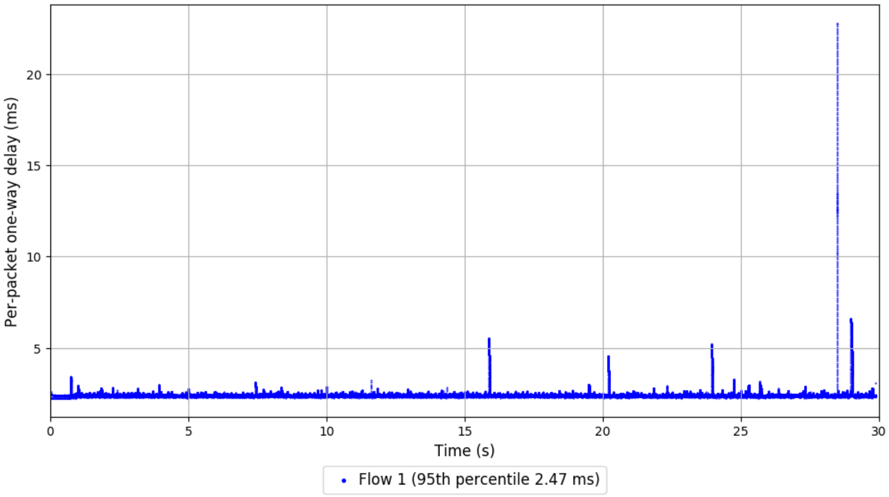




```
Run 8: Statistics of PCC-Vivace

Start at: 2018-08-01 18:33:05
End at: 2018-08-01 18:33:35
Local clock offset: -2.869 ms
Remote clock offset: -3.19 ms

# Below is generated by plot.py at 2018-08-01 19:53:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.37 Mbit/s
95th percentile per-packet one-way delay: 2.466 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 89.37 Mbit/s
95th percentile per-packet one-way delay: 2.466 ms
Loss rate: 0.02%
```

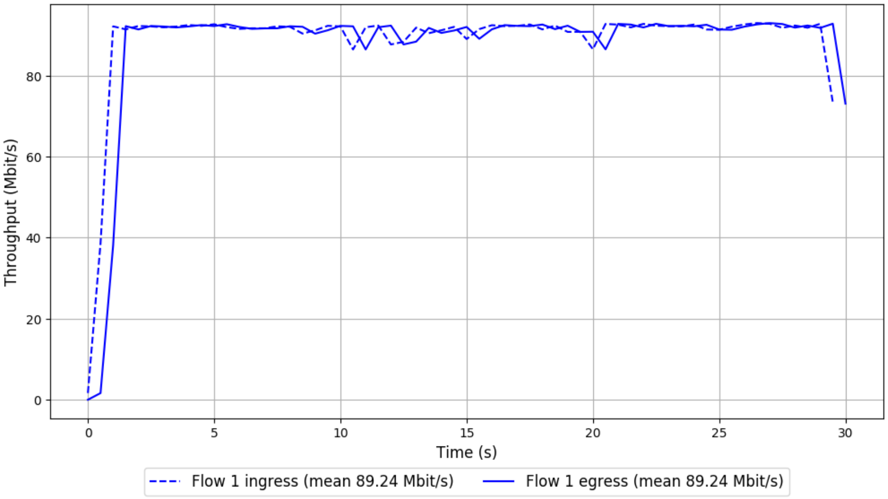
Run 8: Report of PCC-Vivace — Data Link

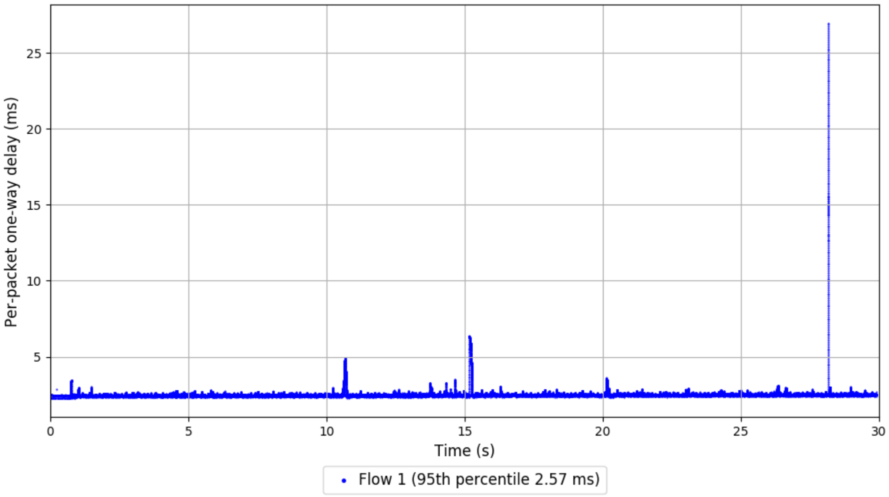




```
Run 9: Statistics of PCC-Vivace

Start at: 2018-08-01 18:52:08
End at: 2018-08-01 18:52:38
Local clock offset: -2.482 ms
Remote clock offset: -1.619 ms

# Below is generated by plot.py at 2018-08-01 19:53:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.24 Mbit/s
95th percentile per-packet one-way delay: 2.566 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 89.24 Mbit/s
95th percentile per-packet one-way delay: 2.566 ms
Loss rate: 0.01%
```

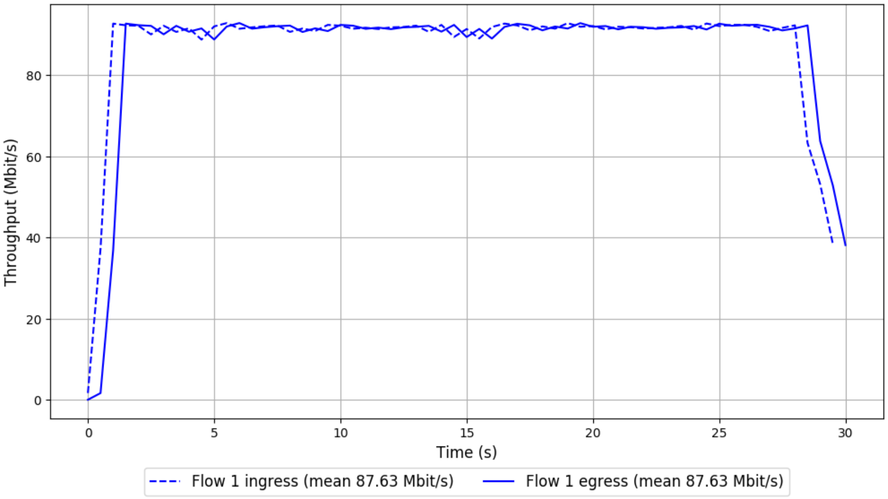
Run 9: Report of PCC-Vivace — Data Link

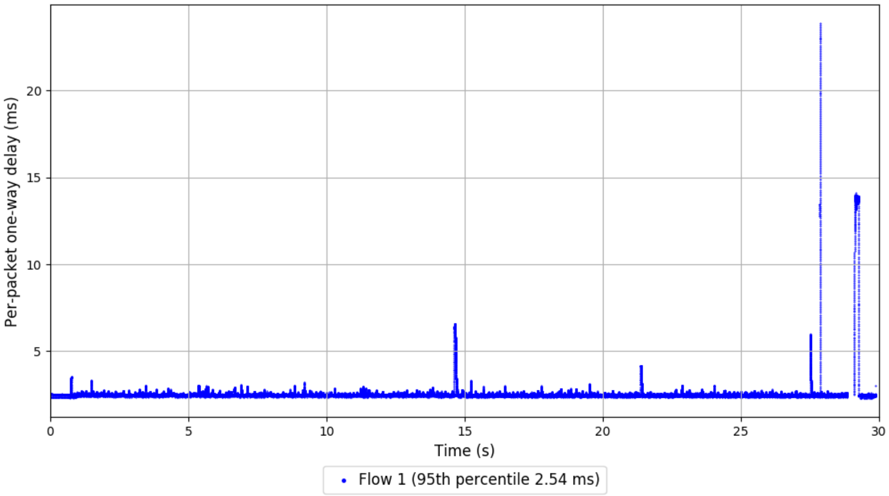




```
Run 10: Statistics of PCC-Vivace

Start at: 2018-08-01 19:11:10
End at: 2018-08-01 19:11:40
Local clock offset: -3.332 ms
Remote clock offset: -1.313 ms

# Below is generated by plot.py at 2018-08-01 19:53:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.63 Mbit/s
95th percentile per-packet one-way delay: 2.536 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 87.63 Mbit/s
95th percentile per-packet one-way delay: 2.536 ms
Loss rate: 0.01%
```

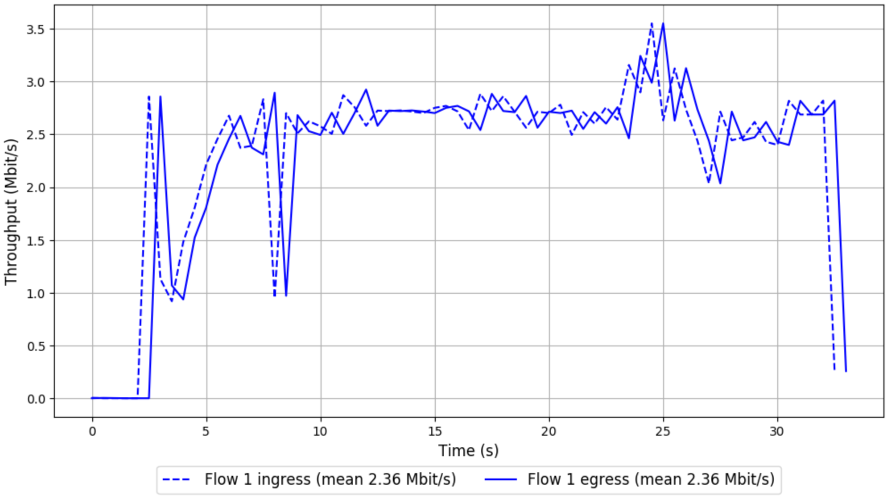
Run 10: Report of PCC-Vivace — Data Link

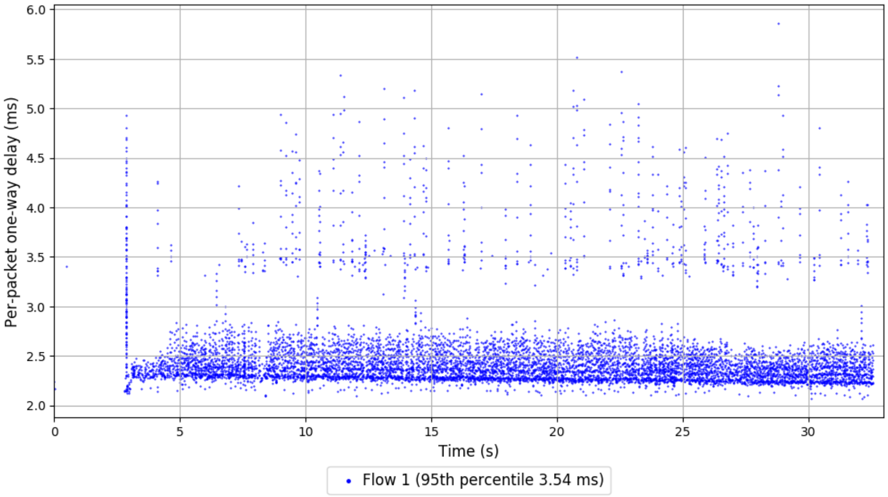




```
Run 1: Statistics of WebRTC media

Start at: 2018-08-01 16:30:08
End at: 2018-08-01 16:30:38
Local clock offset: -4.29 ms
Remote clock offset: -1.936 ms

# Below is generated by plot.py at 2018-08-01 19:53:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 3.541 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 3.541 ms
Loss rate: 0.00%
```

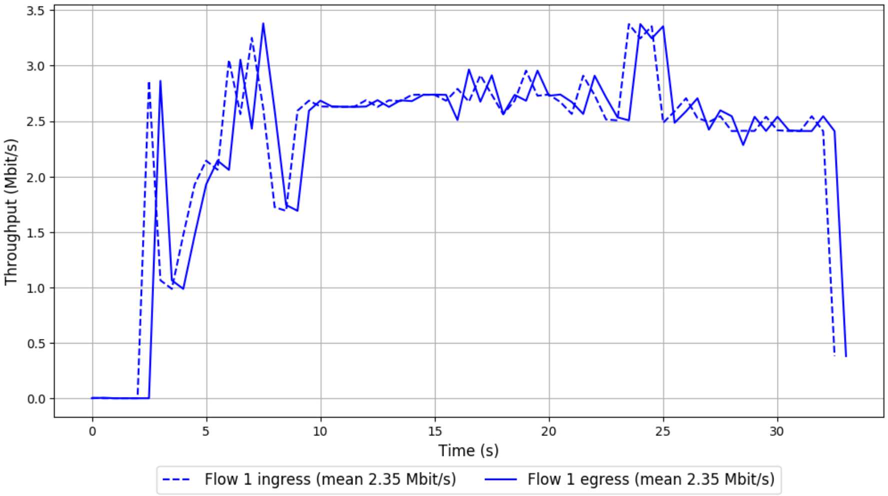
Run 1: Report of WebRTC media — Data Link

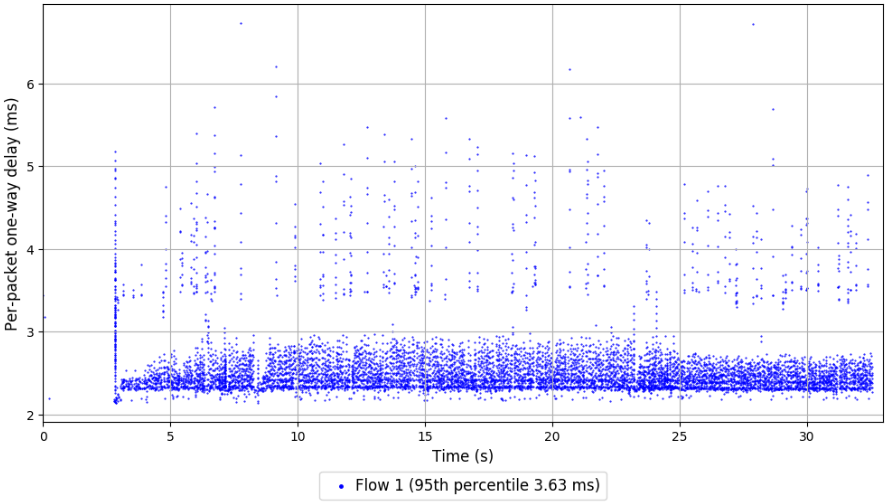




```
Run 2: Statistics of WebRTC media

Start at: 2018-08-01 16:49:04
End at: 2018-08-01 16:49:34
Local clock offset: -2.608 ms
Remote clock offset: -1.515 ms

# Below is generated by plot.py at 2018-08-01 19:53:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 3.635 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 3.635 ms
Loss rate: 0.00%
```

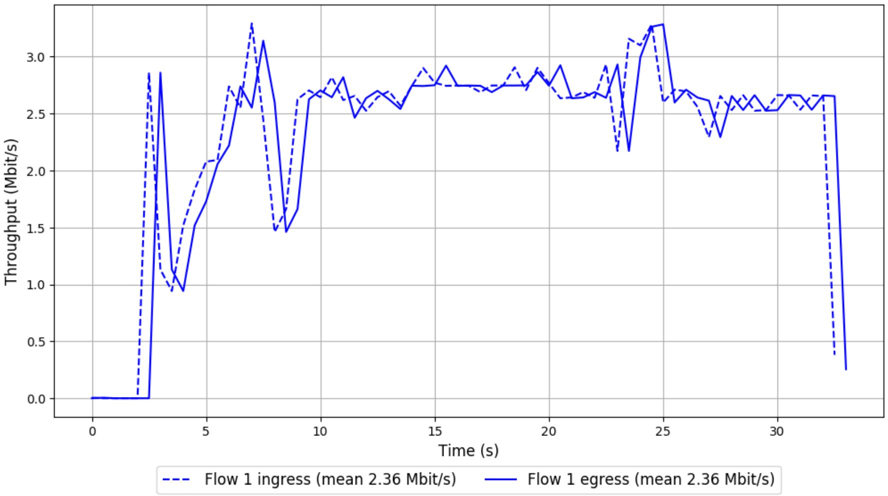
Run 2: Report of WebRTC media — Data Link

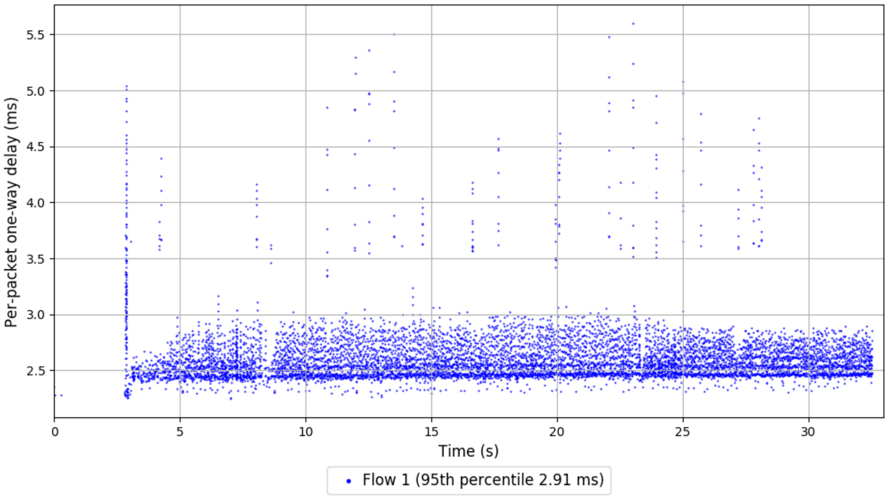




```
Run 3: Statistics of WebRTC media

Start at: 2018-08-01 17:08:01
End at: 2018-08-01 17:08:31
Local clock offset: -6.212 ms
Remote clock offset: -2.756 ms

# Below is generated by plot.py at 2018-08-01 19:53:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 2.912 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 2.912 ms
Loss rate: 0.08%
```

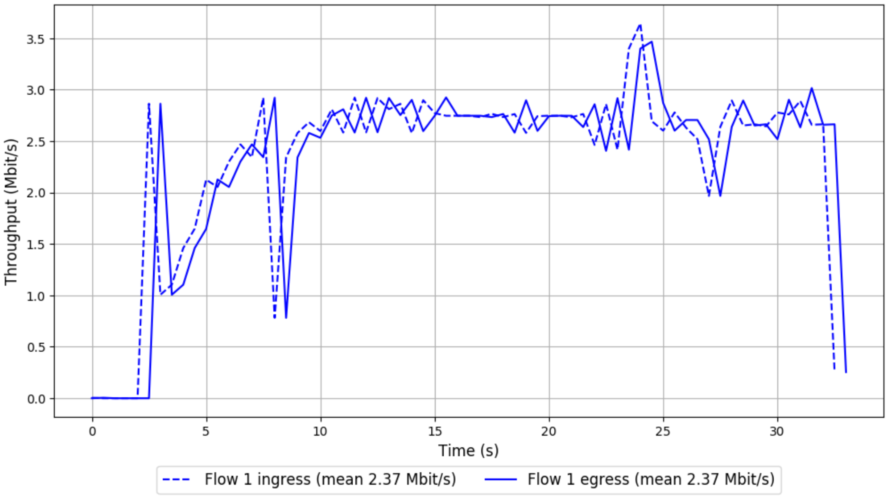
Run 3: Report of WebRTC media — Data Link

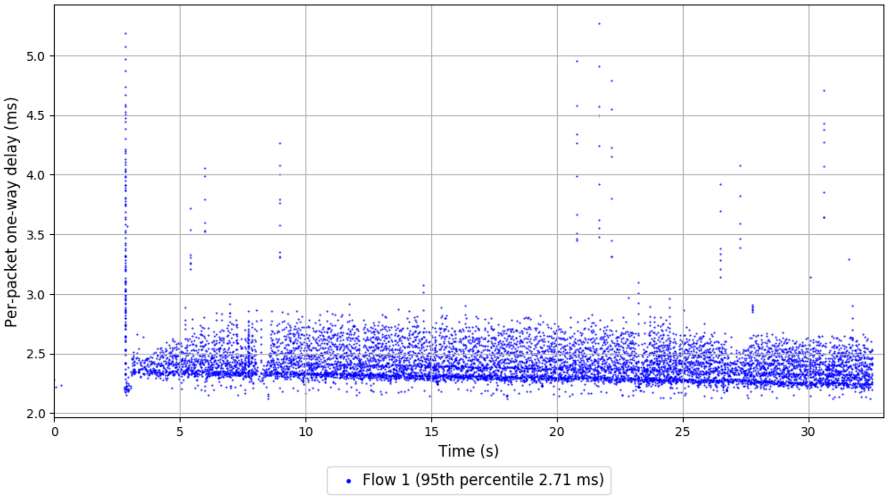




```
Run 4: Statistics of WebRTC media

Start at: 2018-08-01 17:27:03
End at: 2018-08-01 17:27:33
Local clock offset: -5.366 ms
Remote clock offset: -2.81 ms

# Below is generated by plot.py at 2018-08-01 19:53:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.37 Mbit/s
95th percentile per-packet one-way delay: 2.707 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.37 Mbit/s
95th percentile per-packet one-way delay: 2.707 ms
Loss rate: 0.00%
```

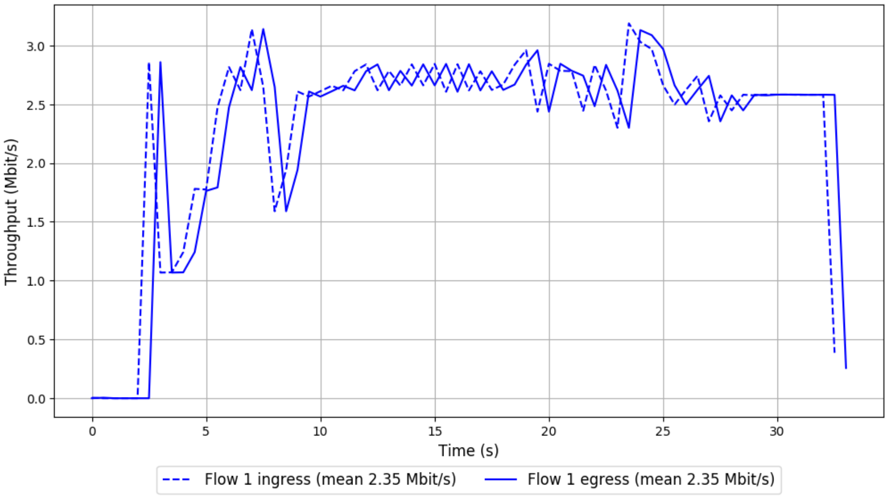
Run 4: Report of WebRTC media — Data Link

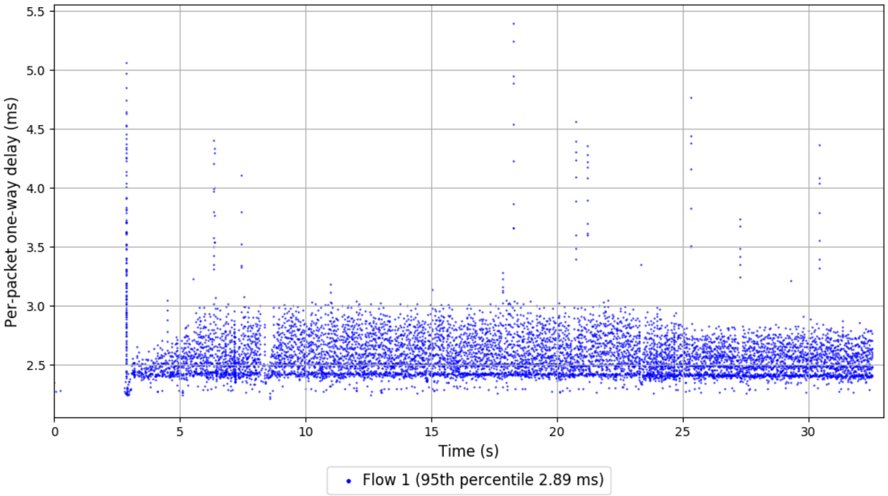




```
Run 5: Statistics of WebRTC media

Start at: 2018-08-01 17:46:04
End at: 2018-08-01 17:46:34
Local clock offset: -2.896 ms
Remote clock offset: -2.105 ms

# Below is generated by plot.py at 2018-08-01 19:53:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 2.893 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 2.893 ms
Loss rate: 0.08%
```

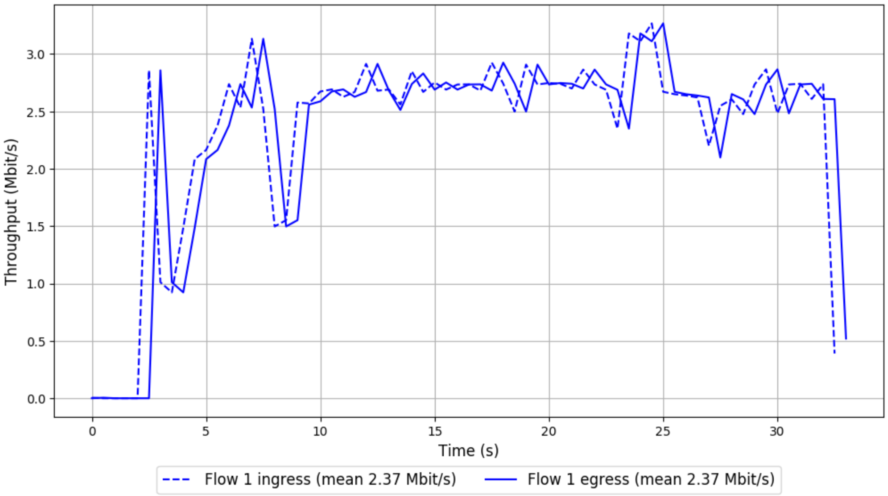
Run 5: Report of WebRTC media — Data Link

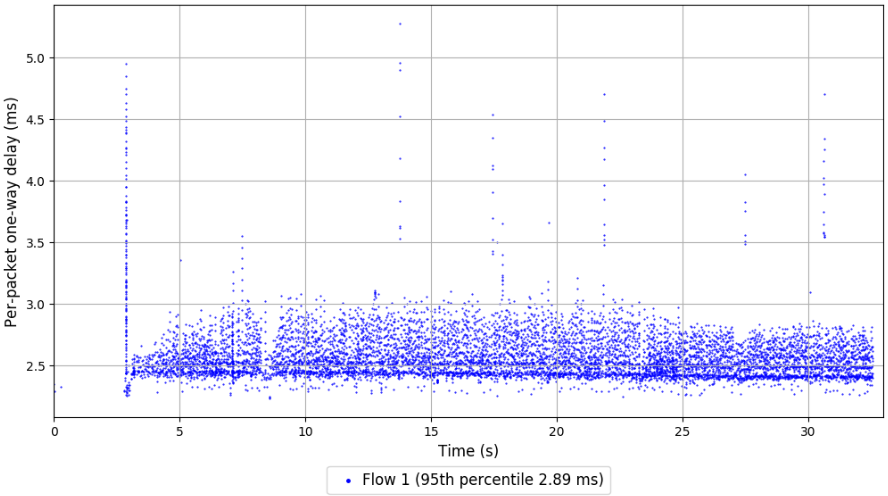




```
Run 6: Statistics of WebRTC media

Start at: 2018-08-01 18:05:06
End at: 2018-08-01 18:05:36
Local clock offset: -3.185 ms
Remote clock offset: -2.392 ms

# Below is generated by plot.py at 2018-08-01 19:53:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.37 Mbit/s
95th percentile per-packet one-way delay: 2.890 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.37 Mbit/s
95th percentile per-packet one-way delay: 2.890 ms
Loss rate: 0.00%
```

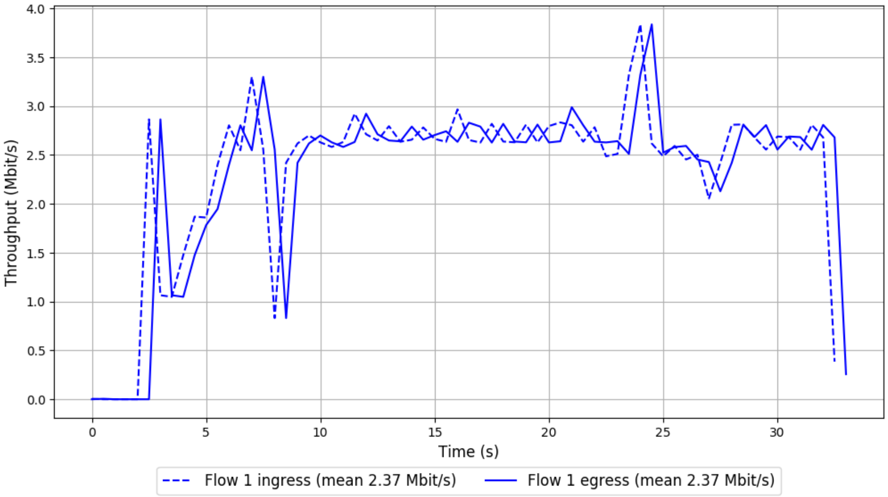
Run 6: Report of WebRTC media — Data Link

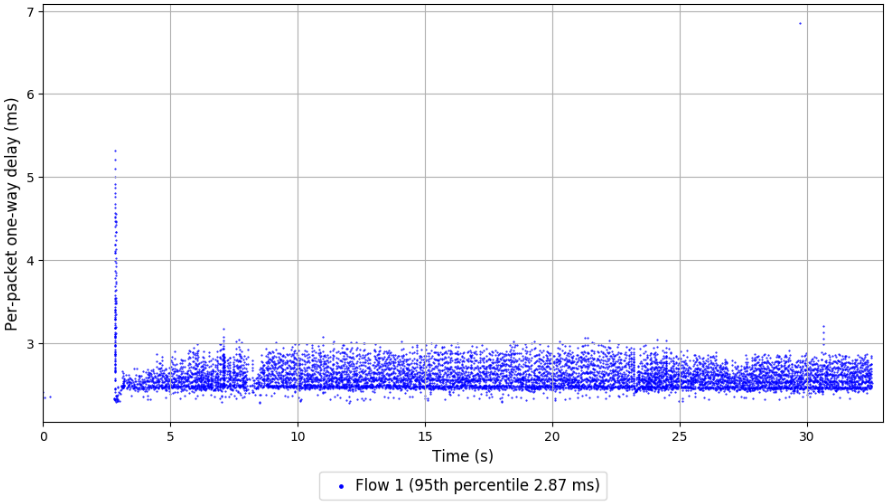




```
Run 7: Statistics of WebRTC media

Start at: 2018-08-01 18:24:08
End at: 2018-08-01 18:24:38
Local clock offset: -3.051 ms
Remote clock offset: -3.121 ms

# Below is generated by plot.py at 2018-08-01 19:53:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.37 Mbit/s
95th percentile per-packet one-way delay: 2.872 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 2.37 Mbit/s
95th percentile per-packet one-way delay: 2.872 ms
Loss rate: 0.08%
```

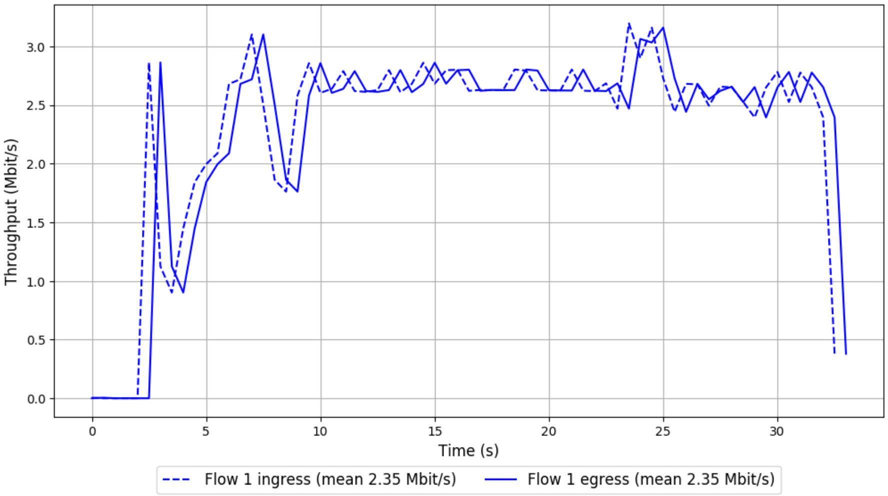
Run 7: Report of WebRTC media — Data Link

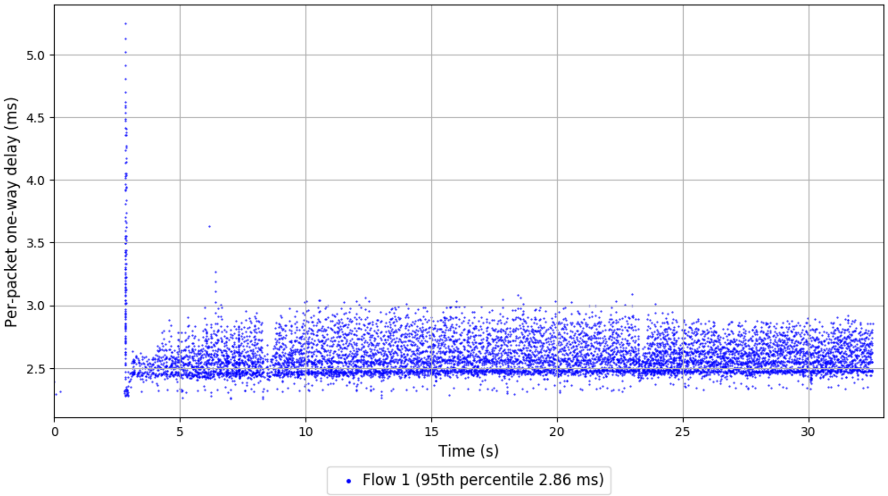




```
Run 8: Statistics of WebRTC media

Start at: 2018-08-01 18:43:11
End at: 2018-08-01 18:43:41
Local clock offset: -2.675 ms
Remote clock offset: -2.154 ms

# Below is generated by plot.py at 2018-08-01 19:53:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 2.864 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 2.864 ms
Loss rate: 0.00%
```

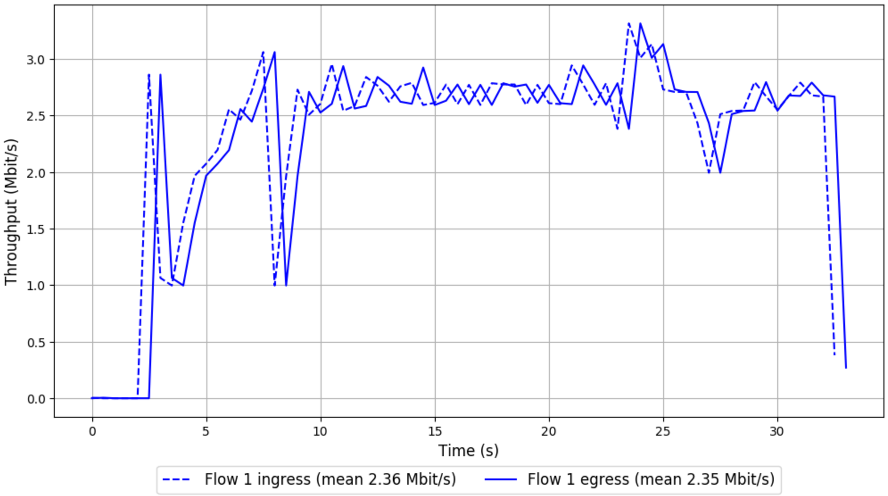
Run 8: Report of WebRTC media — Data Link

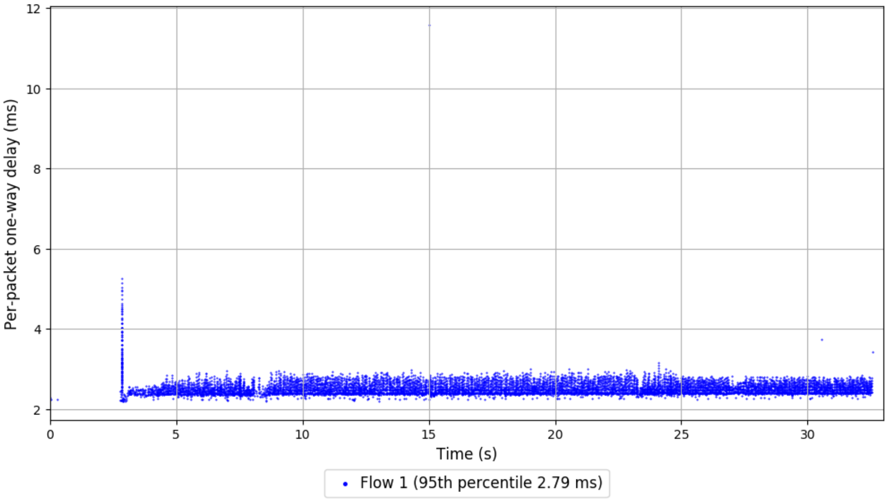




```
Run 9: Statistics of WebRTC media

Start at: 2018-08-01 19:02:13
End at: 2018-08-01 19:02:43
Local clock offset: -3.207 ms
Remote clock offset: -1.221 ms

# Below is generated by plot.py at 2018-08-01 19:53:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 2.793 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 2.793 ms
Loss rate: 0.07%
```

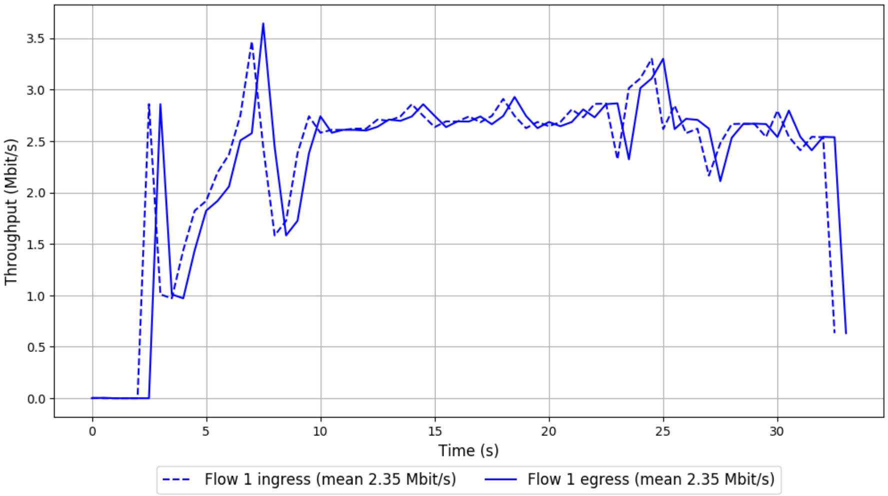
Run 9: Report of WebRTC media — Data Link



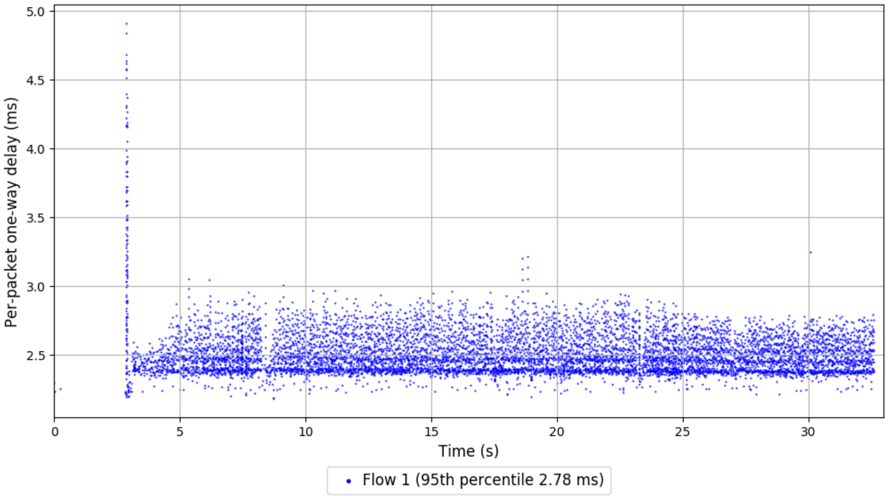


```
Run 10: Statistics of WebRTC media

Start at: 2018-08-01 19:21:16
End at: 2018-08-01 19:21:46
Local clock offset: -3.442 ms
Remote clock offset: -1.597 ms

# Below is generated by plot.py at 2018-08-01 19:53:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 2.776 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 2.776 ms
Loss rate: 0.00%
```

Run 10: Report of WebRTC media — Data Link



Throughput (Mbit/s)
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
Time (s)
0
5
10
15
20
25
30
Flow 1 ingress (mean 2.35 Mbit/s)
Flow 1 egress (mean 2.35 Mbit/s)



Per-packet one-way delay (ms)
2.5
3.0
3.5
4.0
4.5
5.0
Time (s)
0
5
10
15
20
25
30
Flow 1 (95th percentile 2.78 ms)