Pantheon Report

Generated at 2018-05-30 11:50:06 (UTC).

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

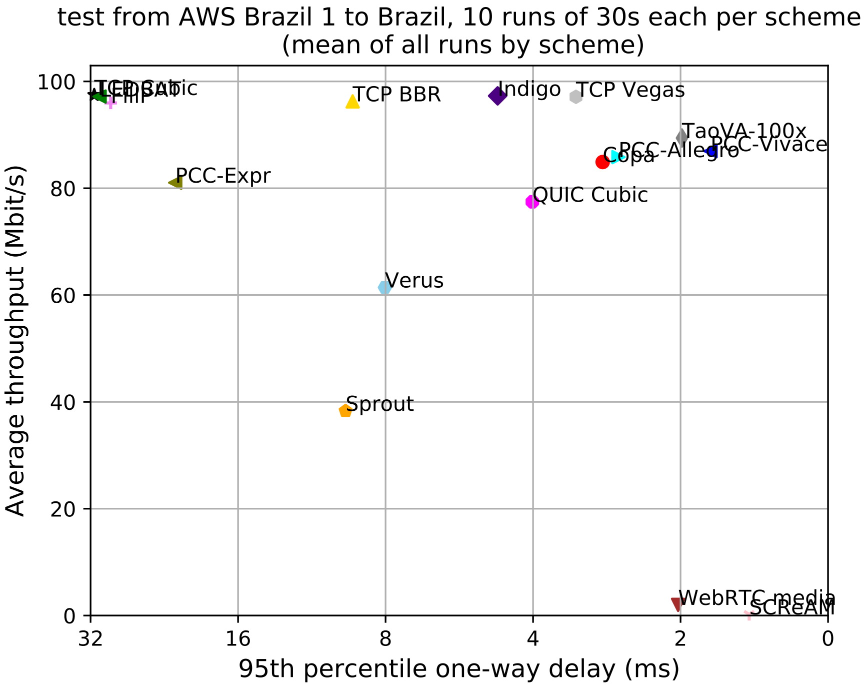
Repeated the test of 16 congestion control schemes 10 times.

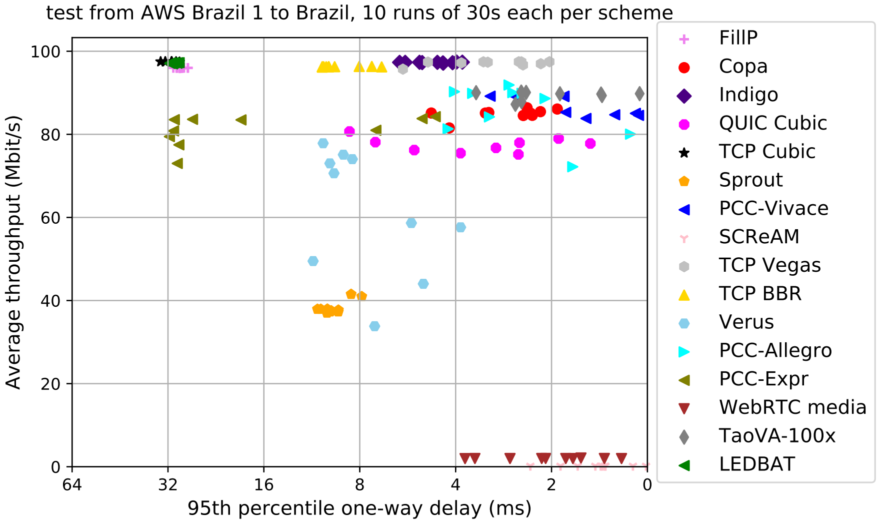
Each test lasted for 30 seconds running 1 flow.

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 @ 227fdf9a3757f17b88537cceed5743a33037a3d2
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
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 @ c838669682f0c19f6baf92afc9a596a406d48c1f
 M src/examples/cellsim.cc
 M src/examples/sproutbt2.cc
 M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
 M src/verus.hpp
 M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

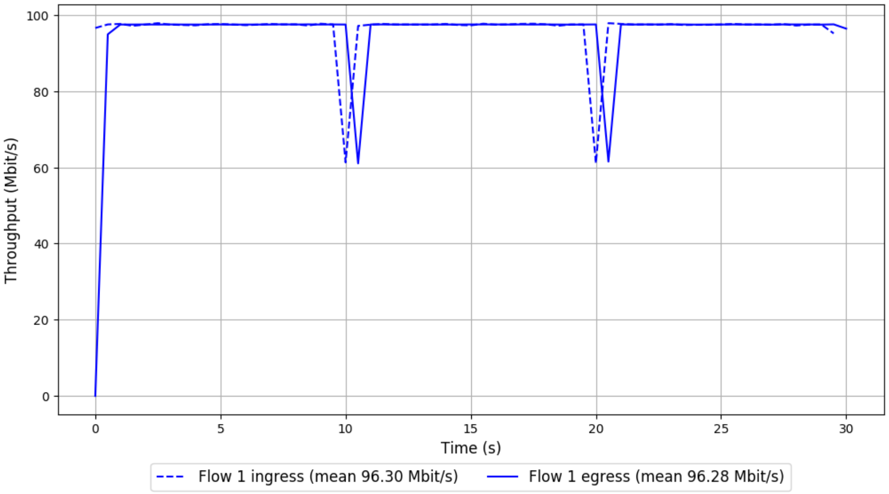

test from AWS Brazil 1 to Brazil, 10 runs of 30s each per scheme
(mean of all runs by scheme)
Average throughput (Mbit/s)
95th percentile one-way delay (ms)
0
20
40
60
80
100
32
16
8
4
2
0
TCP Cubic
LEDBAT
FillP
TCP BBR
Indigo
TCP Vegas
TaoVA-100x
PCC-Vivace
PCC-Allegro
Copa
PCC-Expr
QUIC Cubic
Verus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

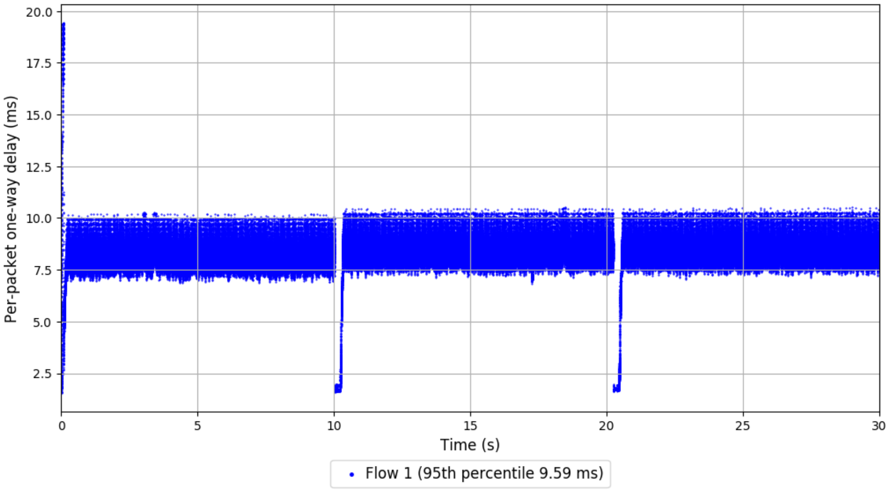

test from AWS Brazil 1 to Brazil, 10 runs of 30s each per scheme
Average throughput (Mbit/s)
95th percentile one-way delay (ms)
0
20
40
60
80
100
64
32
16
8
4
2
0
FillP
Copa
Indigo
QUIC Cubic
TCP Cubic
Sprout
PCC-Vivace
SCReAM
TCP Vegas
TCP BBR
Verus
PCC-Allegro
PCC-Expr
WebRTC media
TaoVA-100x
LEDBAT

scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	96.27	9.34	0.00
Copa	10	84.91	2.88	0.00
TCP Cubic	10	97.46	31.45	0.01
FillP	10	95.97	29.11	4.08
Indigo	10	97.29	4.72	0.00
LEDBAT	10	97.17	30.68	0.01
PCC-Allegro	10	85.83	2.68	0.00
PCC-Expr	10	81.04	21.50	0.47
QUIC Cubic	9	77.46	4.01	0.28
SCReAM	10	0.22	1.07	0.00
Sprout	10	38.32	9.65	0.01
TaoVA-100x	10	89.40	1.98	0.00
TCP Vegas	10	97.11	3.27	0.00
Verus	10	61.42	8.03	1.17
PCC-Vivace	10	86.94	1.59	0.00
WebRTC media	10	1.99	2.02	0.00

```
Run 1: Statistics of TCP BBR

Start at: 2018-05-30 08:37:52
End at: 2018-05-30 08:38:22
Local clock offset: -3.03 ms
Remote clock offset: -3.051 ms

# Below is generated by plot.py at 2018-05-30 11:28:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.28 Mbit/s
95th percentile per-packet one-way delay: 9.591 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.28 Mbit/s
95th percentile per-packet one-way delay: 9.591 ms
Loss rate: 0.01%
```

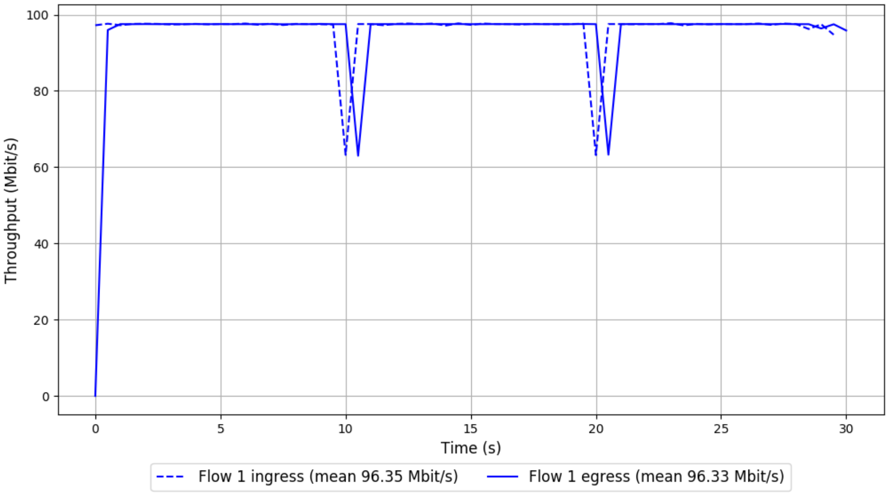
Run 1: Report of TCP BBR — Data Link

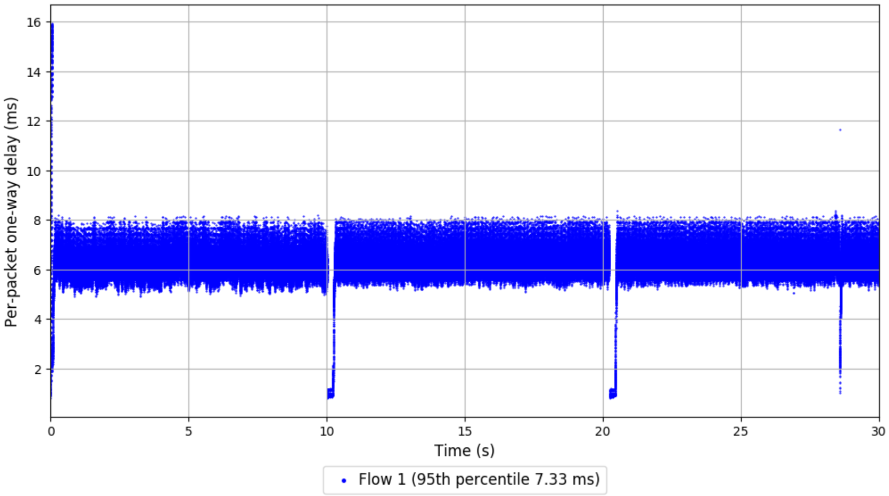




```
Run 2: Statistics of TCP BBR

Start at: 2018-05-30 08:55:46
End at: 2018-05-30 08:56:16
Local clock offset: -2.874 ms
Remote clock offset: -2.81 ms

# Below is generated by plot.py at 2018-05-30 11:28:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.33 Mbit/s
95th percentile per-packet one-way delay: 7.332 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.33 Mbit/s
95th percentile per-packet one-way delay: 7.332 ms
Loss rate: 0.00%
```

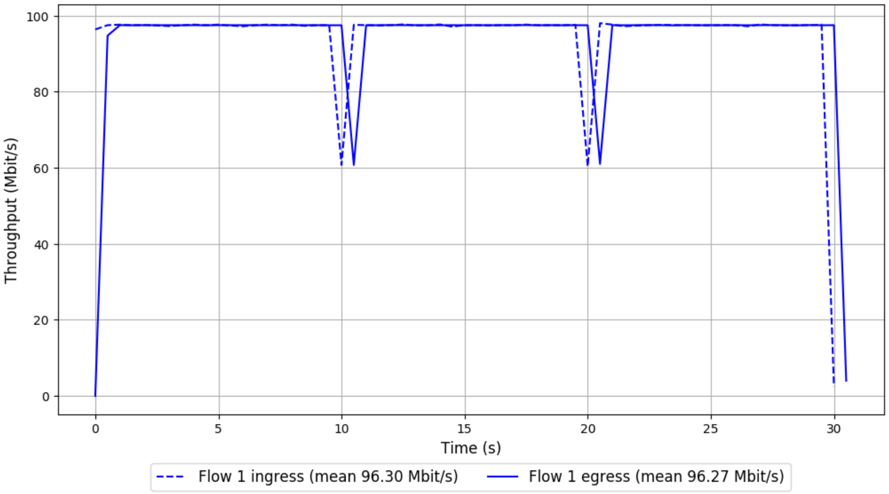
Run 2: Report of TCP BBR — Data Link

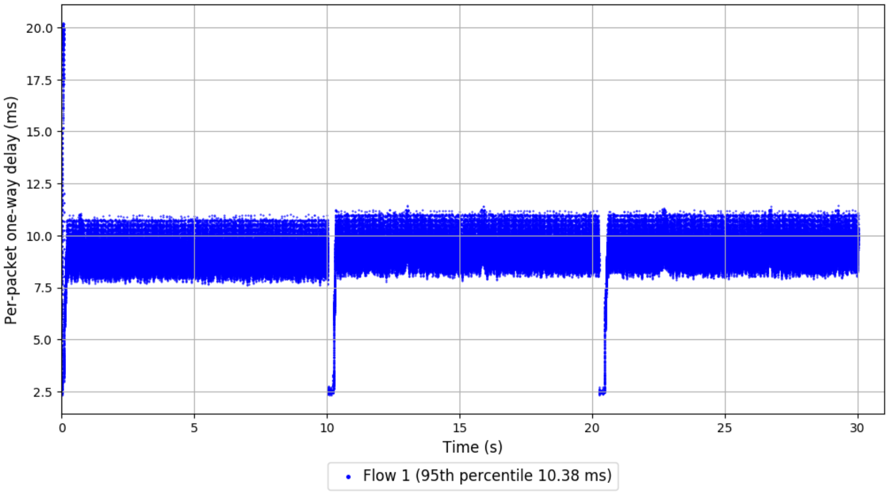




```
Run 3: Statistics of TCP BBR

Start at: 2018-05-30 09:13:40
End at: 2018-05-30 09:14:10
Local clock offset: -2.683 ms
Remote clock offset: -2.389 ms

# Below is generated by plot.py at 2018-05-30 11:28:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 10.384 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 10.384 ms
Loss rate: 0.01%
```

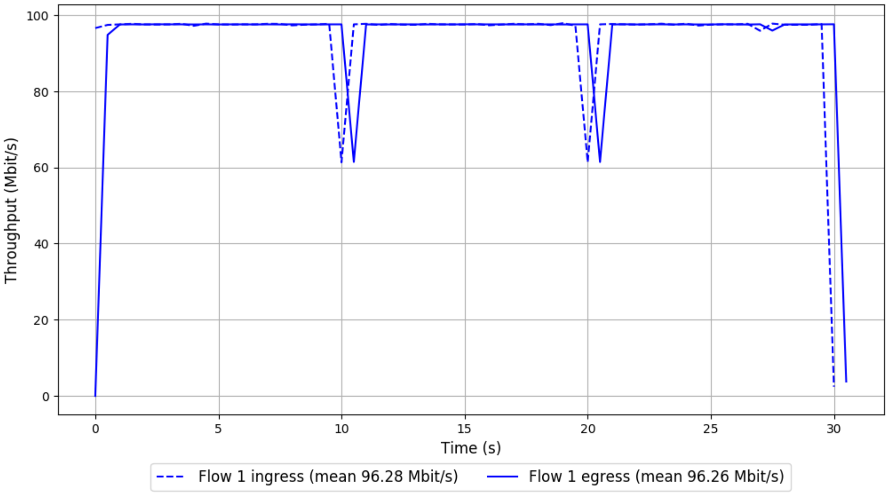
Run 3: Report of TCP BBR — Data Link

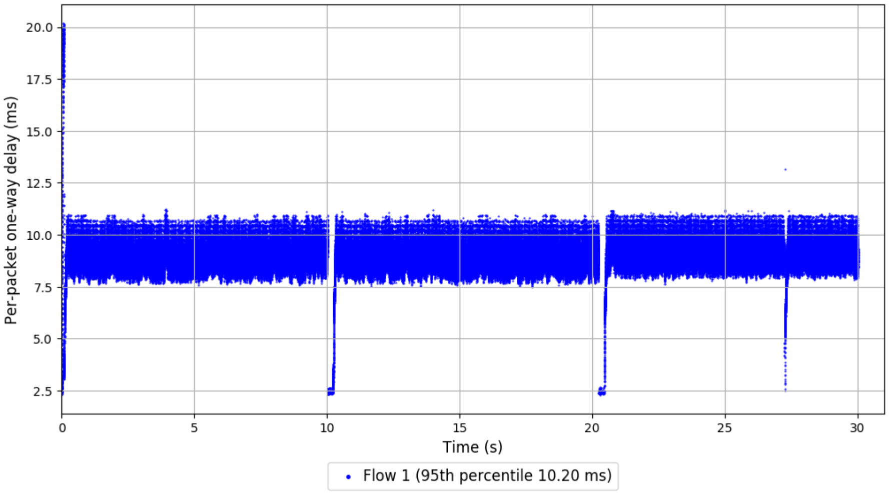




```
Run 4: Statistics of TCP BBR

Start at: 2018-05-30 09:31:40
End at: 2018-05-30 09:32:10
Local clock offset: -2.647 ms
Remote clock offset: -2.052 ms

# Below is generated by plot.py at 2018-05-30 11:28:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.26 Mbit/s
95th percentile per-packet one-way delay: 10.196 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.26 Mbit/s
95th percentile per-packet one-way delay: 10.196 ms
Loss rate: 0.01%
```

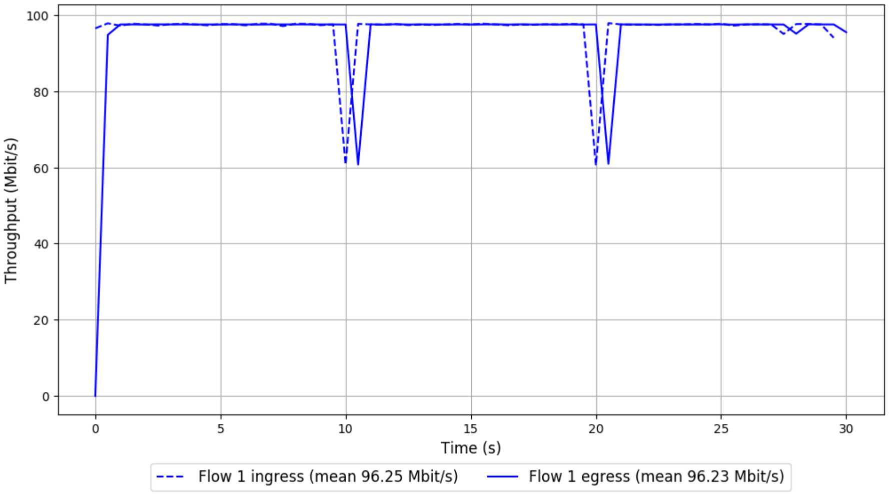
Run 4: Report of TCP BBR — Data Link

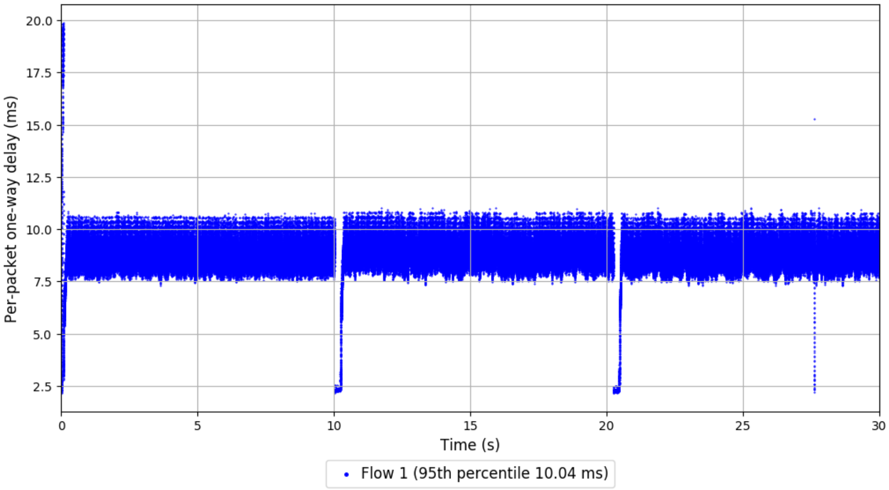




```
Run 5: Statistics of TCP BBR

Start at: 2018-05-30 09:49:36
End at: 2018-05-30 09:50:06
Local clock offset: -6.826 ms
Remote clock offset: -1.973 ms

# Below is generated by plot.py at 2018-05-30 11:28:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.23 Mbit/s
95th percentile per-packet one-way delay: 10.037 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.23 Mbit/s
95th percentile per-packet one-way delay: 10.037 ms
Loss rate: 0.01%
```

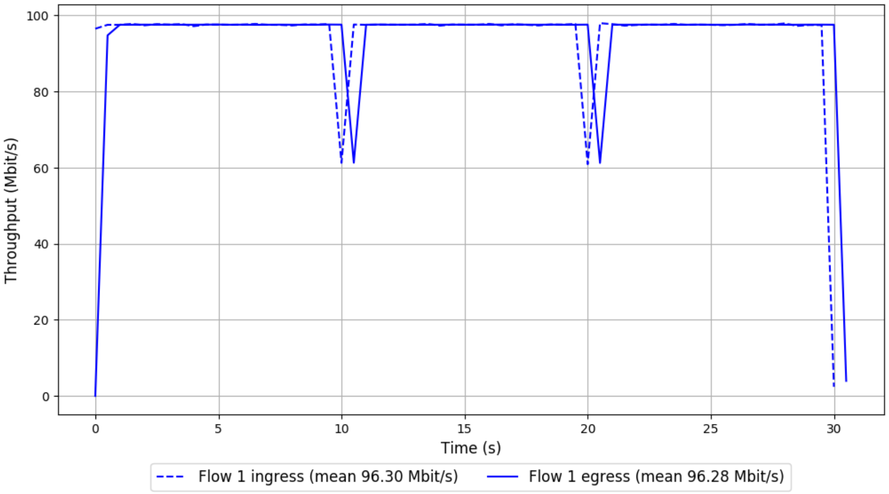
Run 5: Report of TCP BBR — Data Link

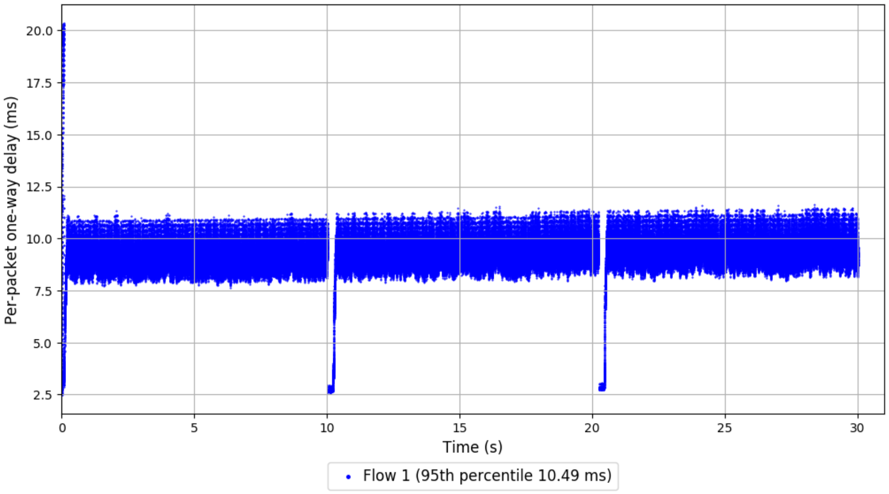




```
Run 6: Statistics of TCP BBR

Start at: 2018-05-30 10:07:28
End at: 2018-05-30 10:07:58
Local clock offset: -7.894 ms
Remote clock offset: -1.901 ms

# Below is generated by plot.py at 2018-05-30 11:28:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.28 Mbit/s
95th percentile per-packet one-way delay: 10.490 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.28 Mbit/s
95th percentile per-packet one-way delay: 10.490 ms
Loss rate: 0.00%
```

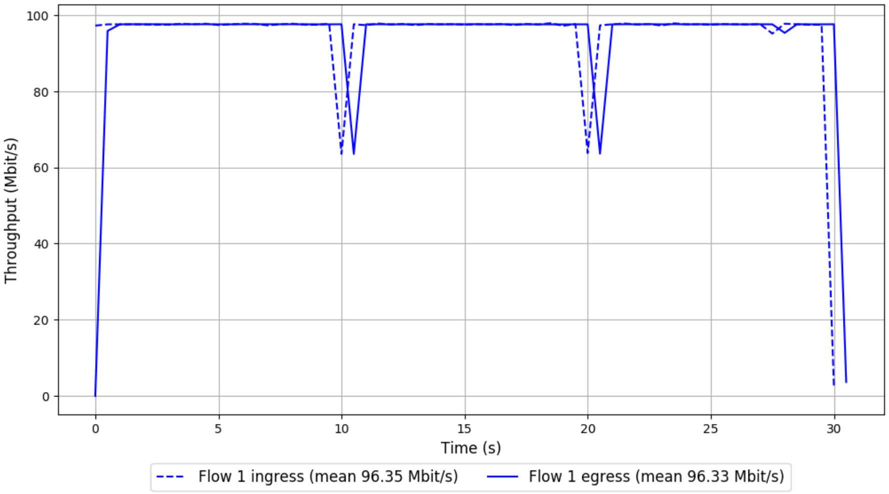
Run 6: Report of TCP BBR — Data Link

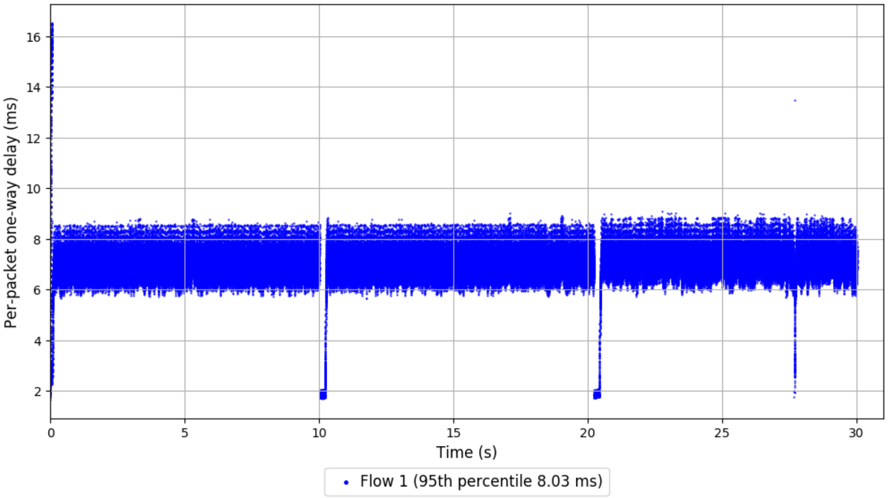




```
Run 7: Statistics of TCP BBR

Start at: 2018-05-30 10:25:22
End at: 2018-05-30 10:25:52
Local clock offset: -3.159 ms
Remote clock offset: -2.029 ms

# Below is generated by plot.py at 2018-05-30 11:28:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.33 Mbit/s
95th percentile per-packet one-way delay: 8.031 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.33 Mbit/s
95th percentile per-packet one-way delay: 8.031 ms
Loss rate: 0.00%
```

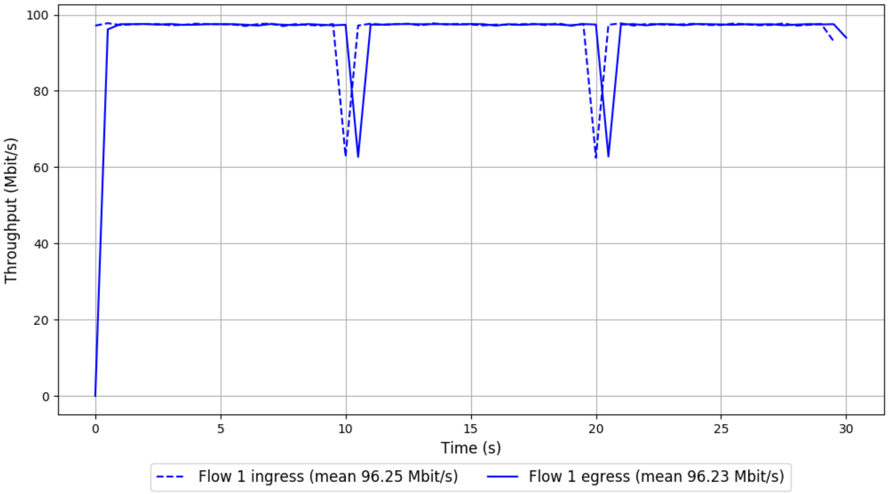
Run 7: Report of TCP BBR — Data Link

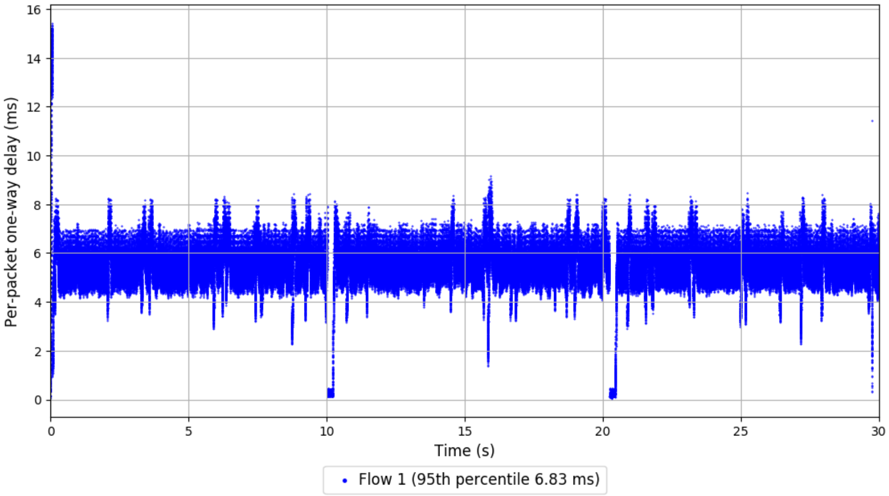




```
Run 8: Statistics of TCP BBR

Start at: 2018-05-30 10:43:22
End at: 2018-05-30 10:43:52
Local clock offset: -0.883 ms
Remote clock offset: -1.991 ms

# Below is generated by plot.py at 2018-05-30 11:28:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.23 Mbit/s
95th percentile per-packet one-way delay: 6.828 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.23 Mbit/s
95th percentile per-packet one-way delay: 6.828 ms
Loss rate: 0.00%
```

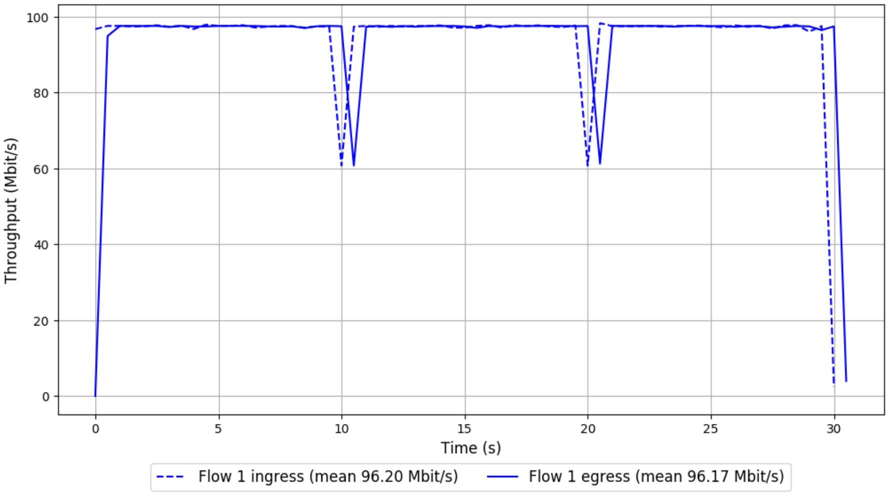
Run 8: Report of TCP BBR — Data Link

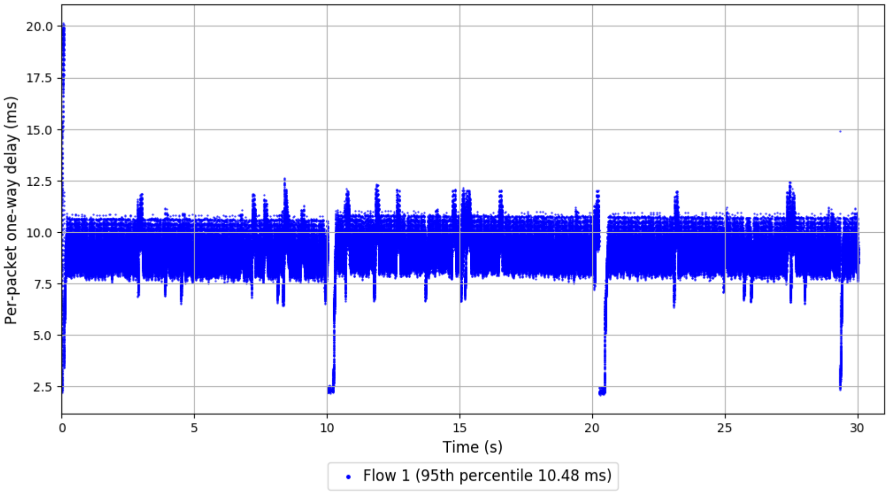




```
Run 9: Statistics of TCP BBR

Start at: 2018-05-30 11:01:17
End at: 2018-05-30 11:01:47
Local clock offset: -1.517 ms
Remote clock offset: 7.733 ms

# Below is generated by plot.py at 2018-05-30 11:29:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.17 Mbit/s
95th percentile per-packet one-way delay: 10.484 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.17 Mbit/s
95th percentile per-packet one-way delay: 10.484 ms
Loss rate: 0.00%
```

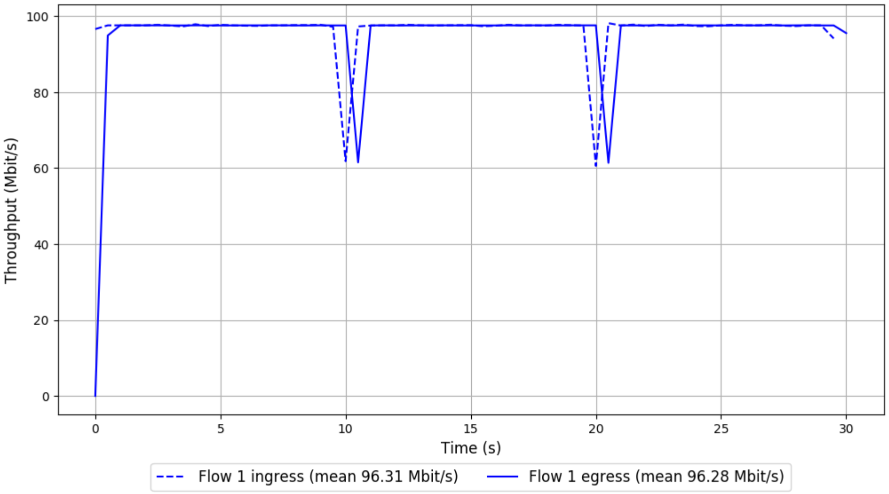
Run 9: Report of TCP BBR — Data Link

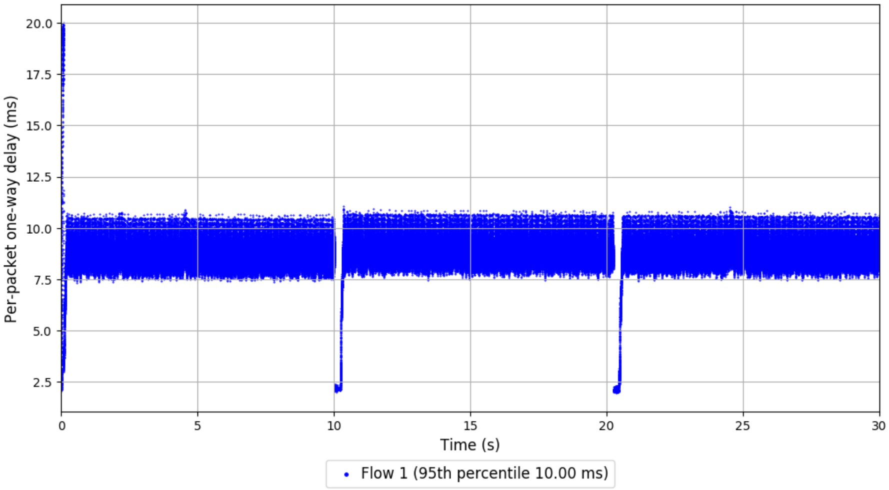




```
Run 10: Statistics of TCP BBR

Start at: 2018-05-30 11:19:10
End at: 2018-05-30 11:19:40
Local clock offset: -6.278 ms
Remote clock offset: 12.802 ms

# Below is generated by plot.py at 2018-05-30 11:29:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.28 Mbit/s
95th percentile per-packet one-way delay: 10.003 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.28 Mbit/s
95th percentile per-packet one-way delay: 10.003 ms
Loss rate: 0.00%
```

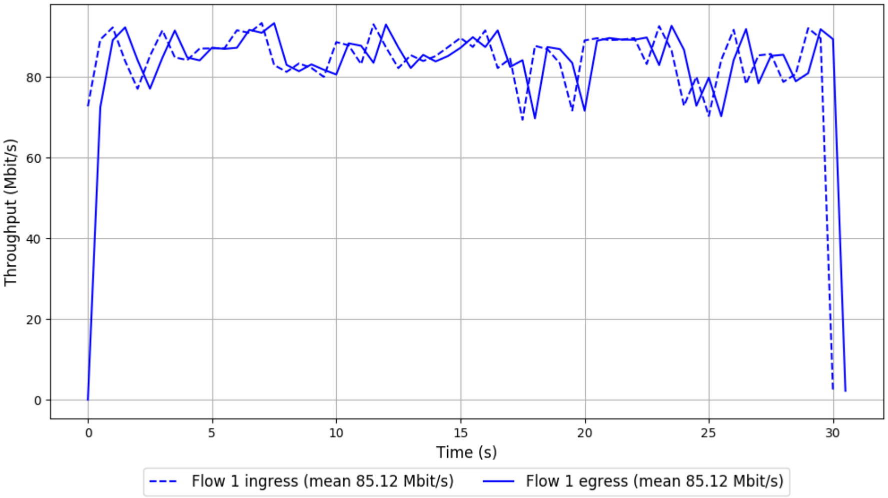
Run 10: Report of TCP BBR — Data Link

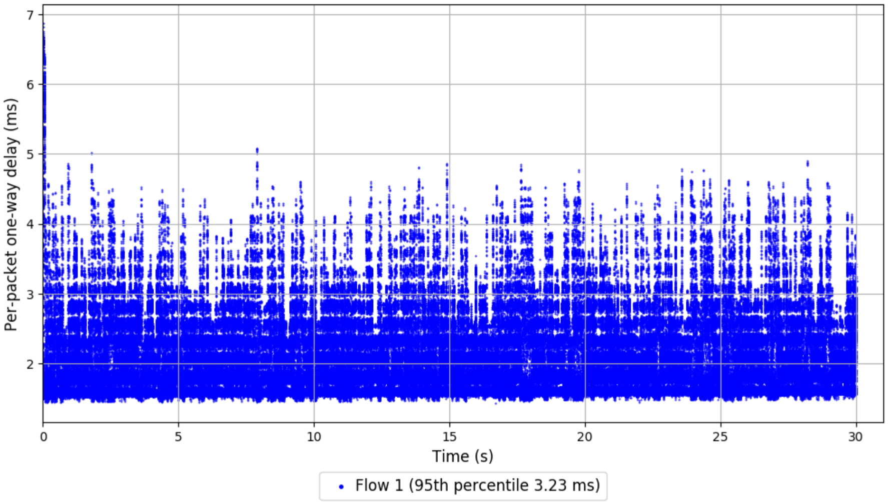




```
Run 1: Statistics of Copa

Start at: 2018-05-30 08:41:14
End at: 2018-05-30 08:41:44
Local clock offset: -2.583 ms
Remote clock offset: -3.007 ms

# Below is generated by plot.py at 2018-05-30 11:30:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.12 Mbit/s
95th percentile per-packet one-way delay: 3.226 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.12 Mbit/s
95th percentile per-packet one-way delay: 3.226 ms
Loss rate: 0.00%
```

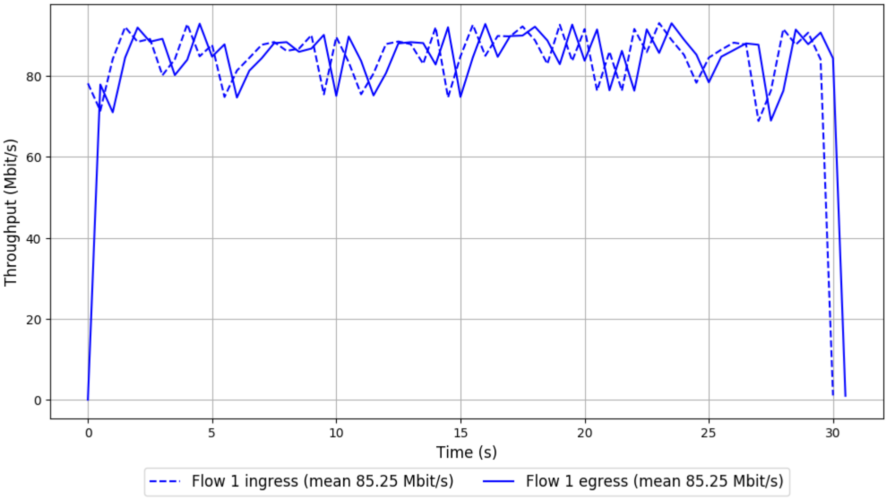
Run 1: Report of Copa — Data Link

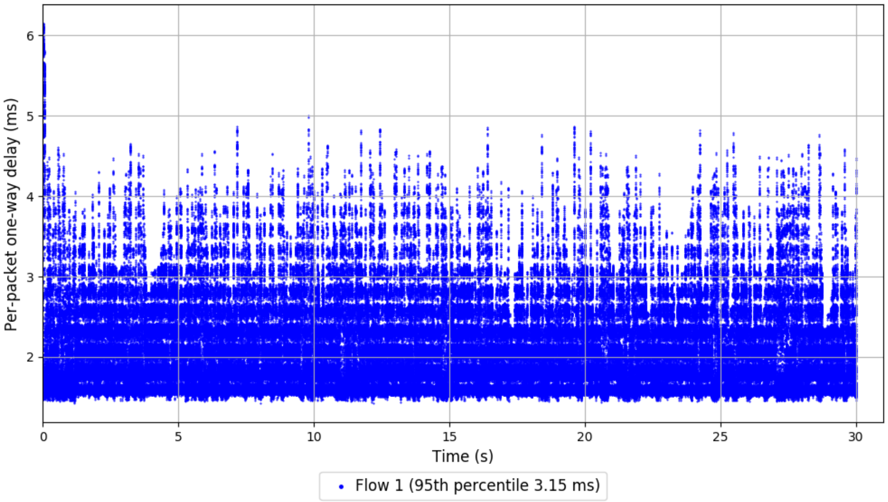




```
Run 2: Statistics of Copa

Start at: 2018-05-30 08:59:08
End at: 2018-05-30 08:59:38
Local clock offset: -2.136 ms
Remote clock offset: -2.825 ms

# Below is generated by plot.py at 2018-05-30 11:30:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.25 Mbit/s
95th percentile per-packet one-way delay: 3.148 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.25 Mbit/s
95th percentile per-packet one-way delay: 3.148 ms
Loss rate: 0.00%
```

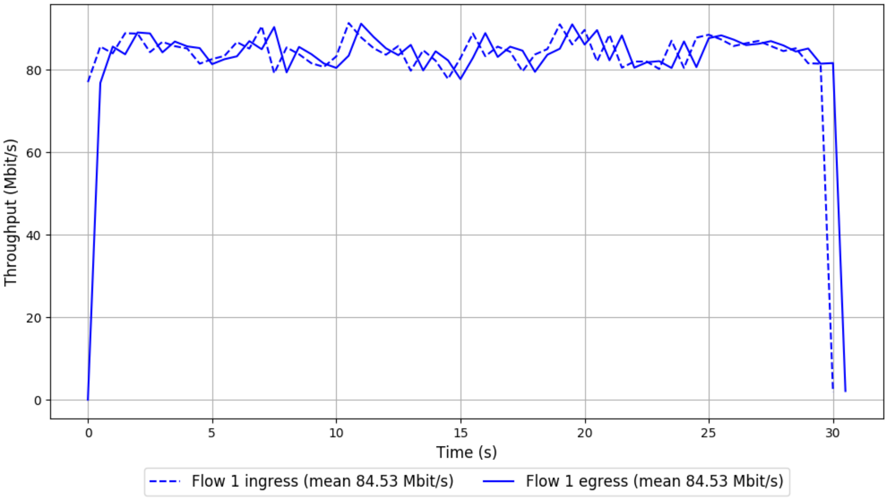
Run 2: Report of Copa — Data Link

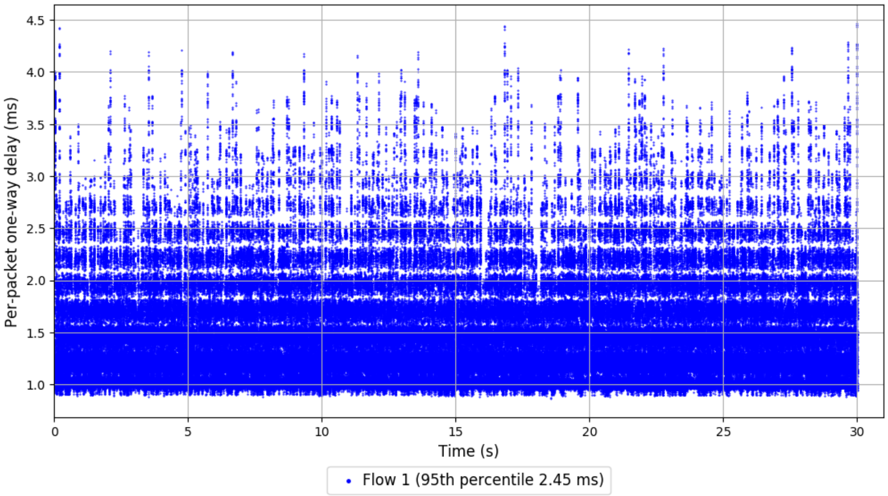




```
Run 3: Statistics of Copa

Start at: 2018-05-30 09:17:03
End at: 2018-05-30 09:17:33
Local clock offset: -2.676 ms
Remote clock offset: -2.273 ms

# Below is generated by plot.py at 2018-05-30 11:30:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.53 Mbit/s
95th percentile per-packet one-way delay: 2.453 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.53 Mbit/s
95th percentile per-packet one-way delay: 2.453 ms
Loss rate: 0.00%
```

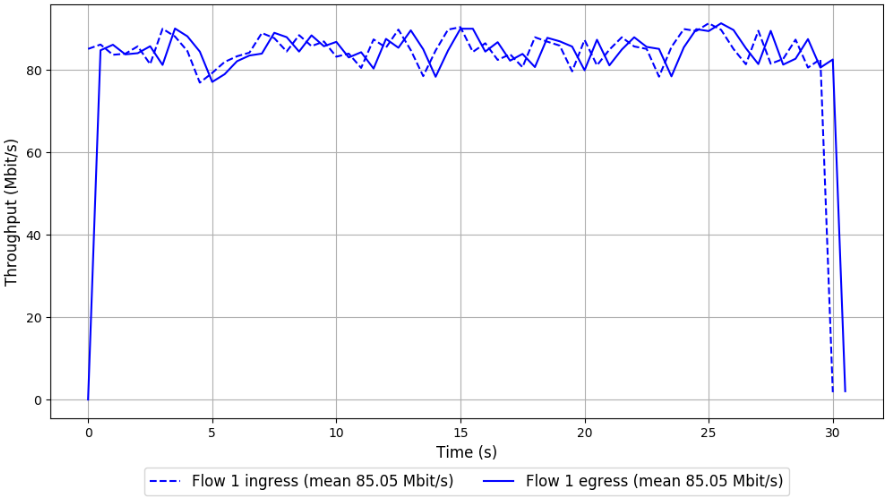
Run 3: Report of Copa — Data Link

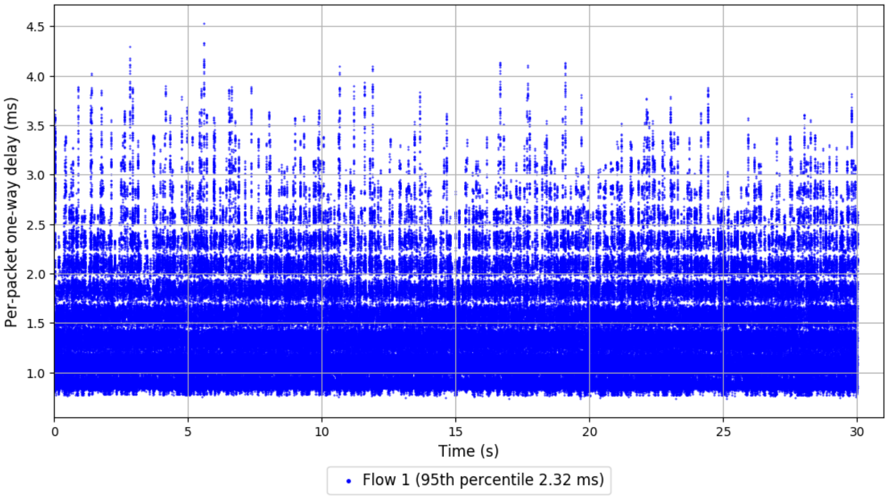




```
Run 4: Statistics of Copa

Start at: 2018-05-30 09:35:03
End at: 2018-05-30 09:35:33
Local clock offset: -2.707 ms
Remote clock offset: -2.07 ms

# Below is generated by plot.py at 2018-05-30 11:30:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.05 Mbit/s
95th percentile per-packet one-way delay: 2.323 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.05 Mbit/s
95th percentile per-packet one-way delay: 2.323 ms
Loss rate: 0.00%
```

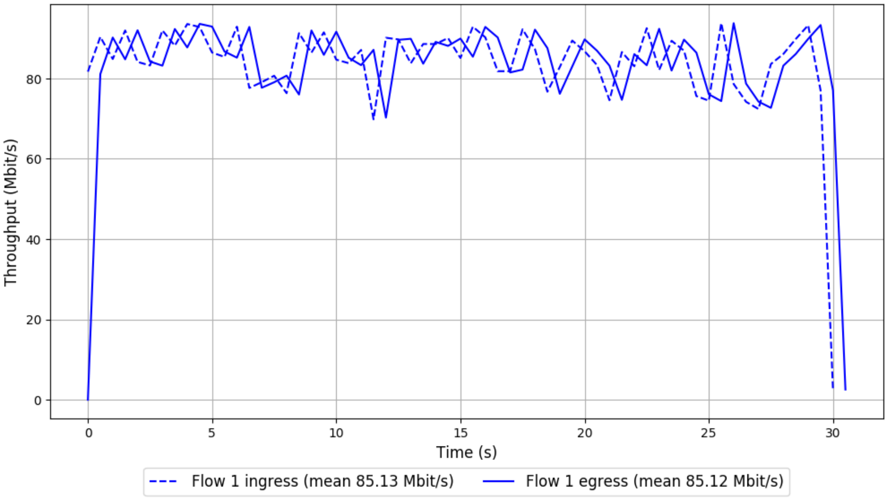
Run 4: Report of Copa — Data Link

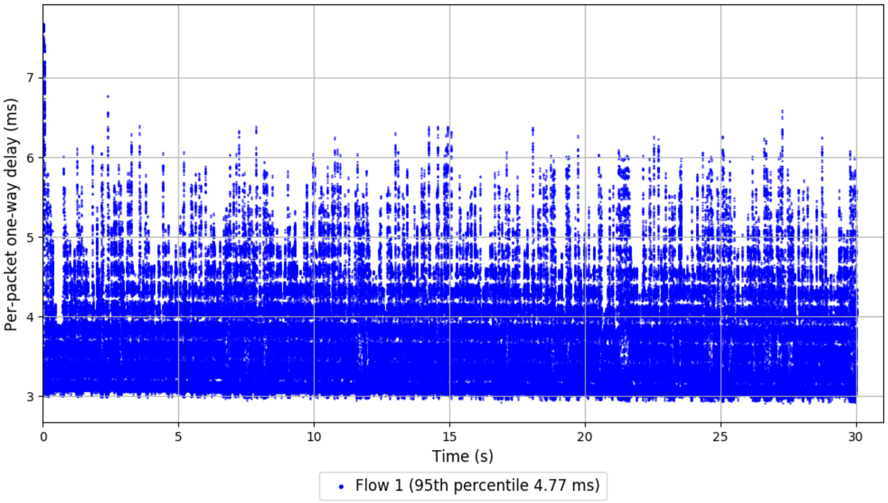




```
Run 5: Statistics of Copa

Start at: 2018-05-30 09:52:57
End at: 2018-05-30 09:53:27
Local clock offset: -8.113 ms
Remote clock offset: -1.912 ms

# Below is generated by plot.py at 2018-05-30 11:30:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.12 Mbit/s
95th percentile per-packet one-way delay: 4.770 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 85.12 Mbit/s
95th percentile per-packet one-way delay: 4.770 ms
Loss rate: 0.01%
```

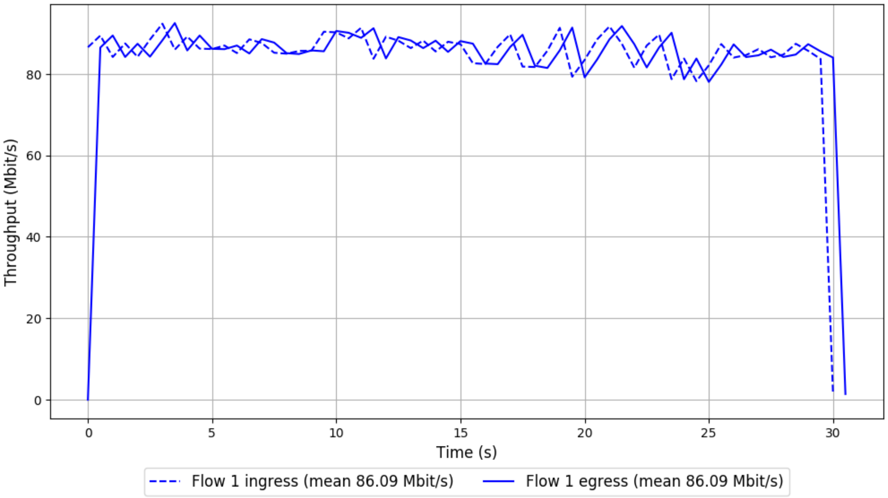
Run 5: Report of Copa — Data Link

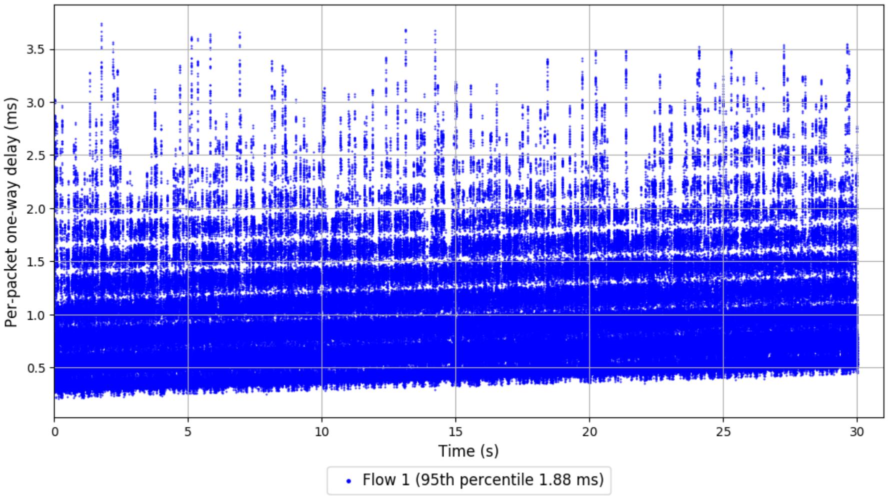




```
Run 6: Statistics of Copa

Start at: 2018-05-30 10:10:50
End at: 2018-05-30 10:11:20
Local clock offset: -5.204 ms
Remote clock offset: -1.878 ms

# Below is generated by plot.py at 2018-05-30 11:30:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.09 Mbit/s
95th percentile per-packet one-way delay: 1.880 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 86.09 Mbit/s
95th percentile per-packet one-way delay: 1.880 ms
Loss rate: 0.00%
```

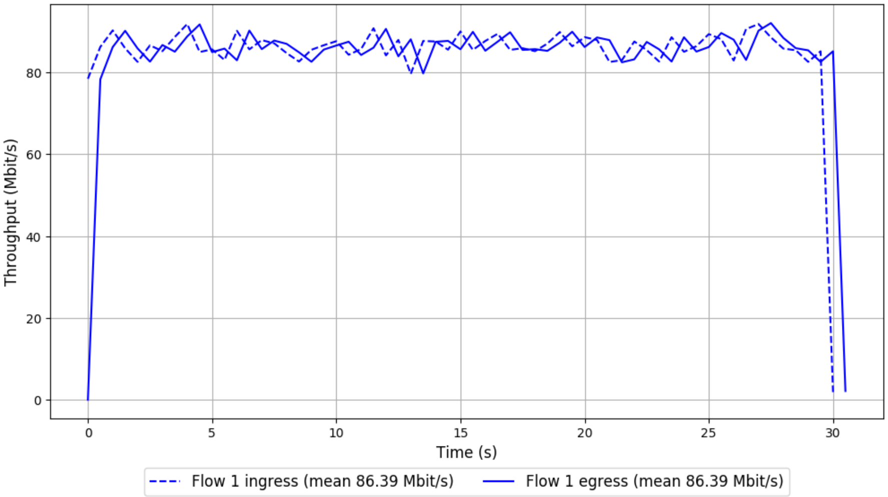
Run 6: Report of Copa — Data Link

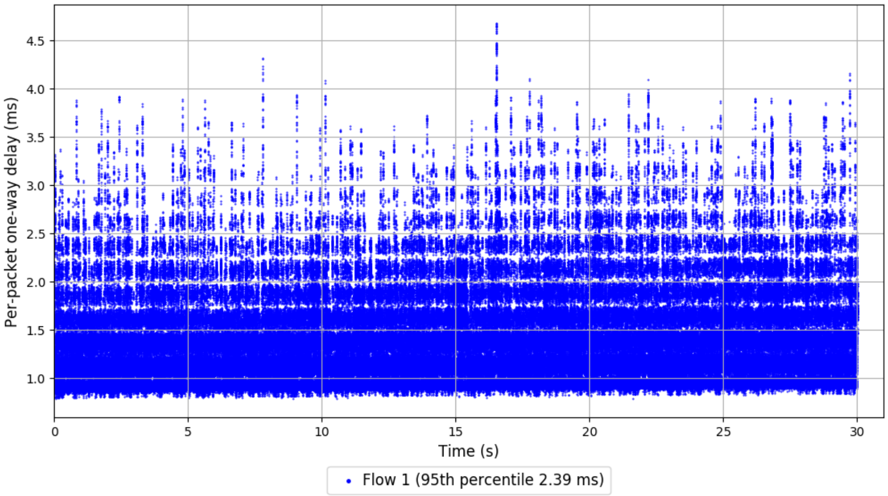




```
Run 7: Statistics of Copa

Start at: 2018-05-30 10:28:50
End at: 2018-05-30 10:29:20
Local clock offset: -2.003 ms
Remote clock offset: -2.068 ms

# Below is generated by plot.py at 2018-05-30 11:31:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.39 Mbit/s
95th percentile per-packet one-way delay: 2.387 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 86.39 Mbit/s
95th percentile per-packet one-way delay: 2.387 ms
Loss rate: 0.00%
```

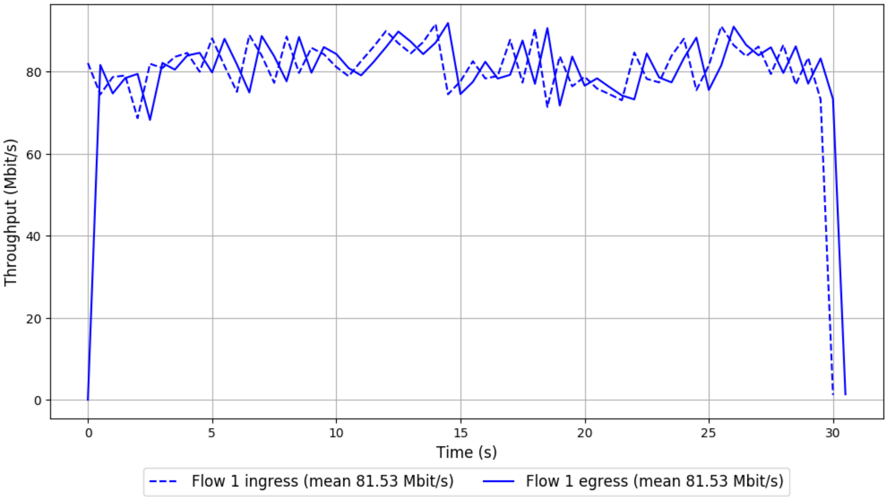
Run 7: Report of Copa — Data Link

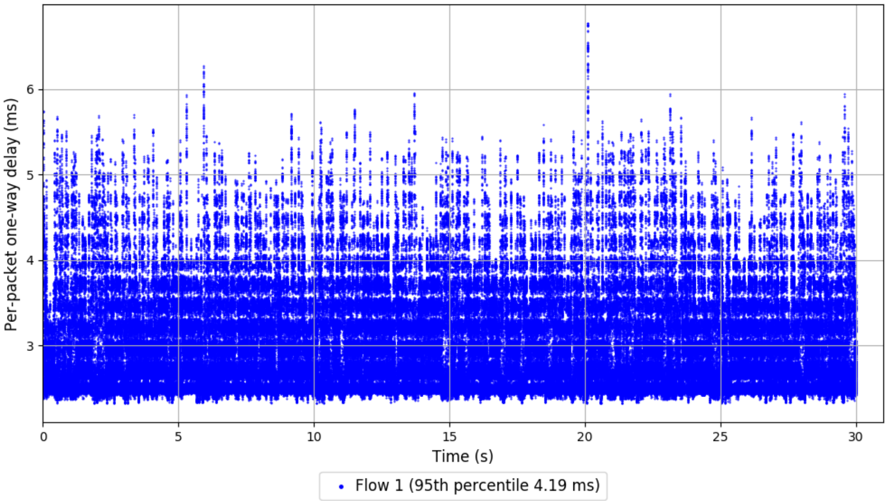




```
Run 8: Statistics of Copa

Start at: 2018-05-30 10:46:45
End at: 2018-05-30 10:47:15
Local clock offset: -1.724 ms
Remote clock offset: -1.989 ms

# Below is generated by plot.py at 2018-05-30 11:31:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.53 Mbit/s
95th percentile per-packet one-way delay: 4.189 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 81.53 Mbit/s
95th percentile per-packet one-way delay: 4.189 ms
Loss rate: 0.01%
```

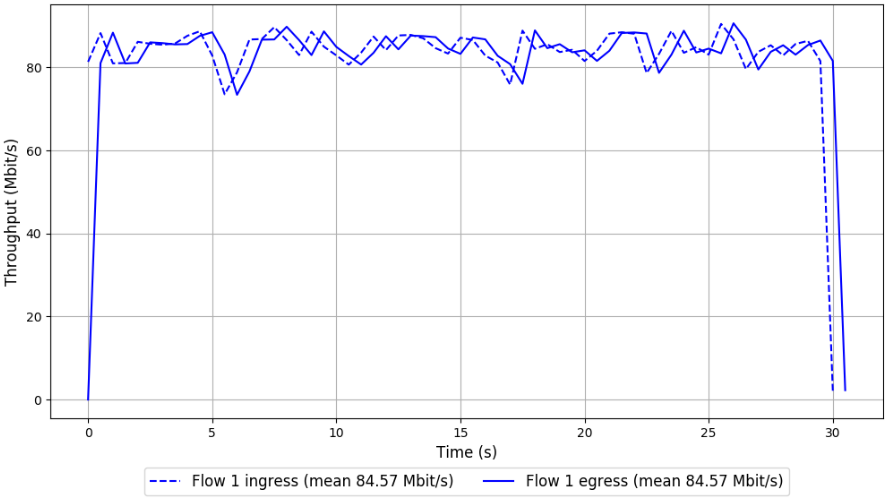
Run 8: Report of Copa — Data Link

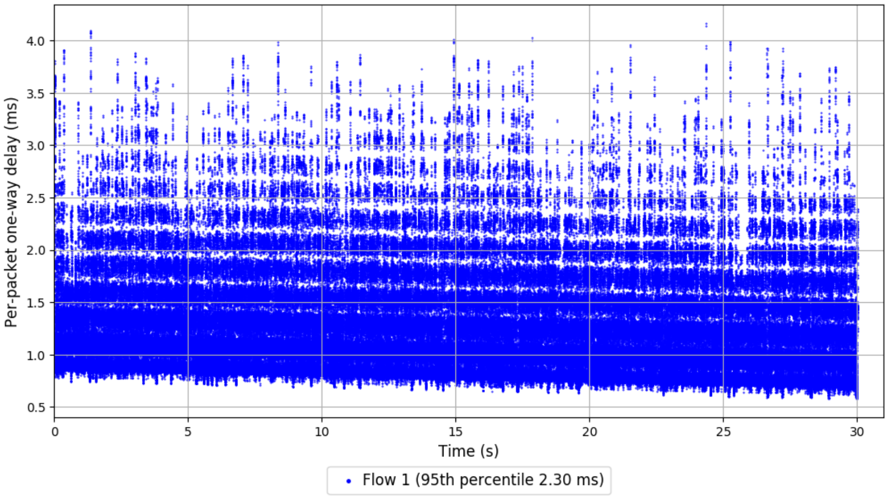




```
Run 9: Statistics of Copa

Start at: 2018-05-30 11:04:38
End at: 2018-05-30 11:05:08
Local clock offset: -1.462 ms
Remote clock offset: 9.132 ms

# Below is generated by plot.py at 2018-05-30 11:32:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.57 Mbit/s
95th percentile per-packet one-way delay: 2.298 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.57 Mbit/s
95th percentile per-packet one-way delay: 2.298 ms
Loss rate: 0.00%
```

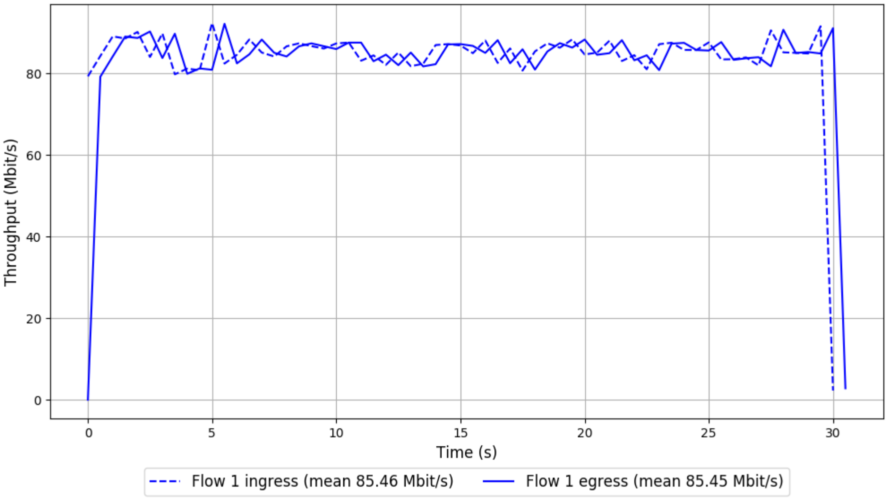
Run 9: Report of Copa — Data Link

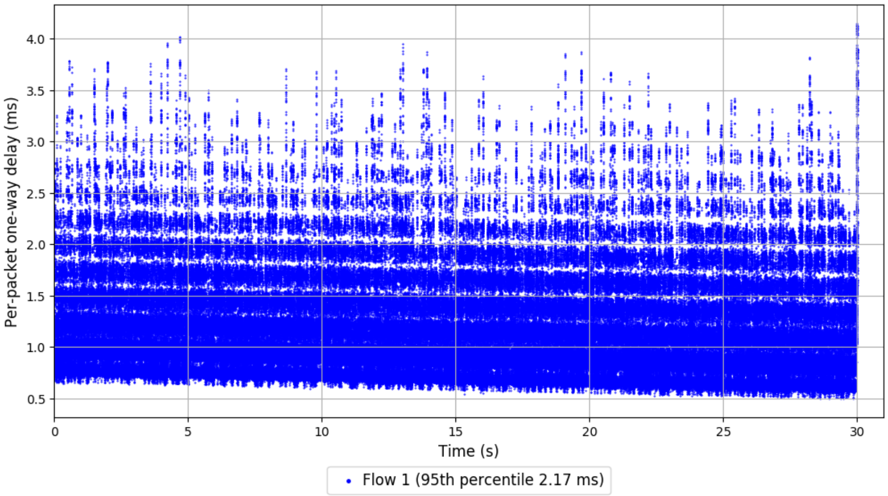




```
Run 10: Statistics of Copa

Start at: 2018-05-30 11:22:31
End at: 2018-05-30 11:23:01
Local clock offset: -6.868 ms
Remote clock offset: 13.486 ms

# Below is generated by plot.py at 2018-05-30 11:32:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.45 Mbit/s
95th percentile per-packet one-way delay: 2.167 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.45 Mbit/s
95th percentile per-packet one-way delay: 2.167 ms
Loss rate: 0.00%
```

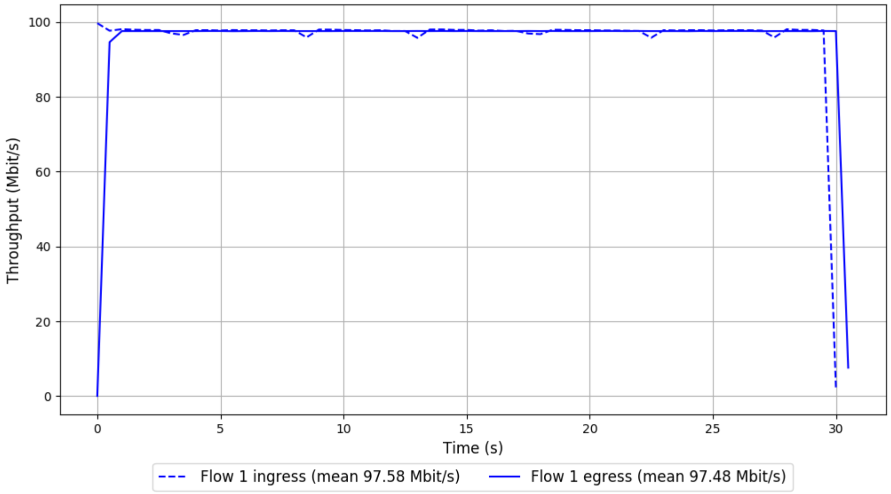
Run 10: Report of Copa — Data Link

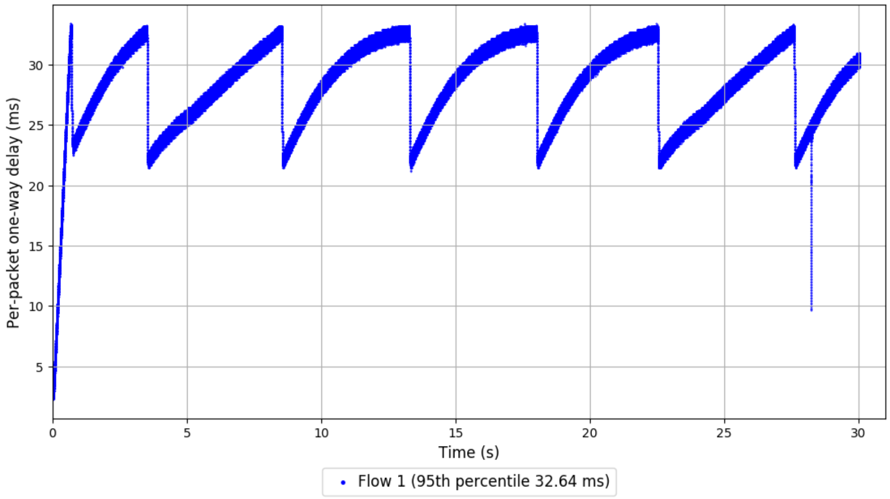




```
Run 1: Statistics of TCP Cubic

Start at: 2018-05-30 08:28:57
End at: 2018-05-30 08:29:27
Local clock offset: -3.819 ms
Remote clock offset: -3.2 ms

# Below is generated by plot.py at 2018-05-30 11:32:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 32.637 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 32.637 ms
Loss rate: 0.02%
```

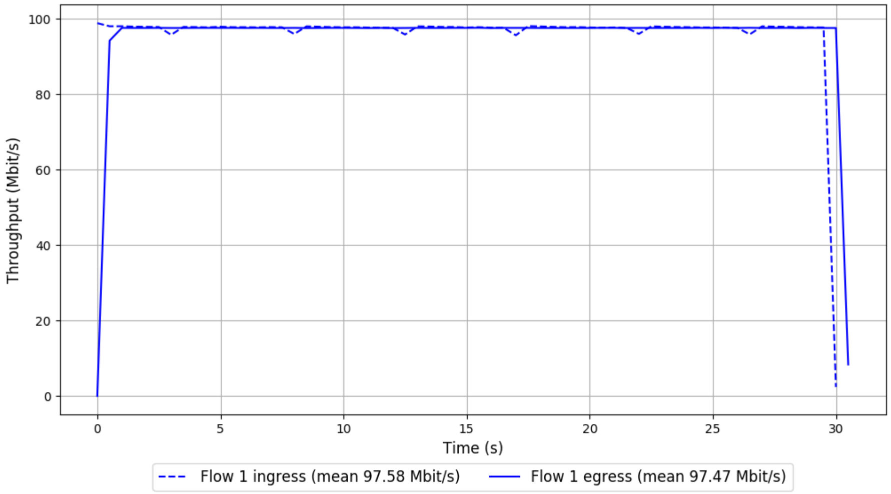
Run 1: Report of TCP Cubic — Data Link

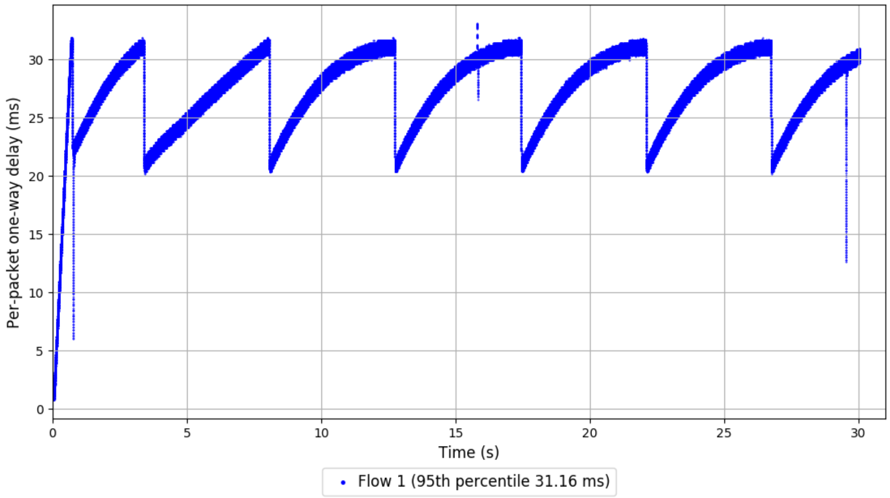




```
Run 2: Statistics of TCP Cubic

Start at: 2018-05-30 08:46:52
End at: 2018-05-30 08:47:22
Local clock offset: -2.981 ms
Remote clock offset: -2.885 ms

# Below is generated by plot.py at 2018-05-30 11:32:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 31.156 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 31.156 ms
Loss rate: 0.01%
```

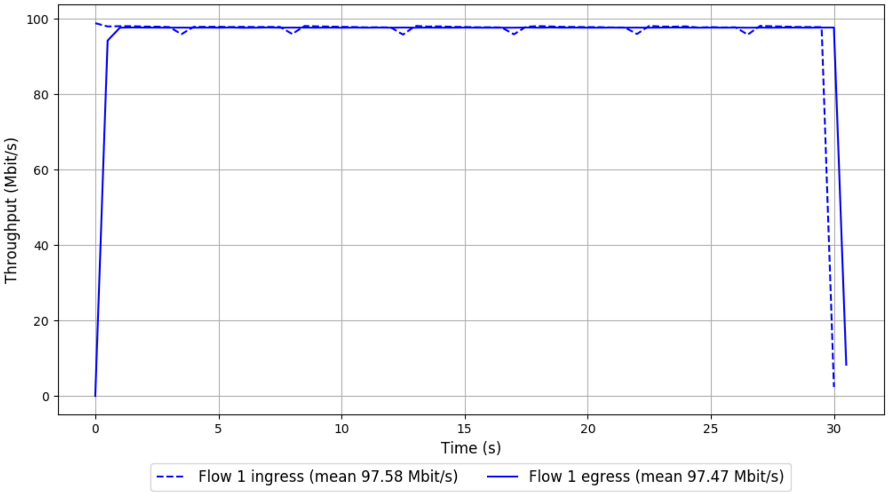
Run 2: Report of TCP Cubic — Data Link

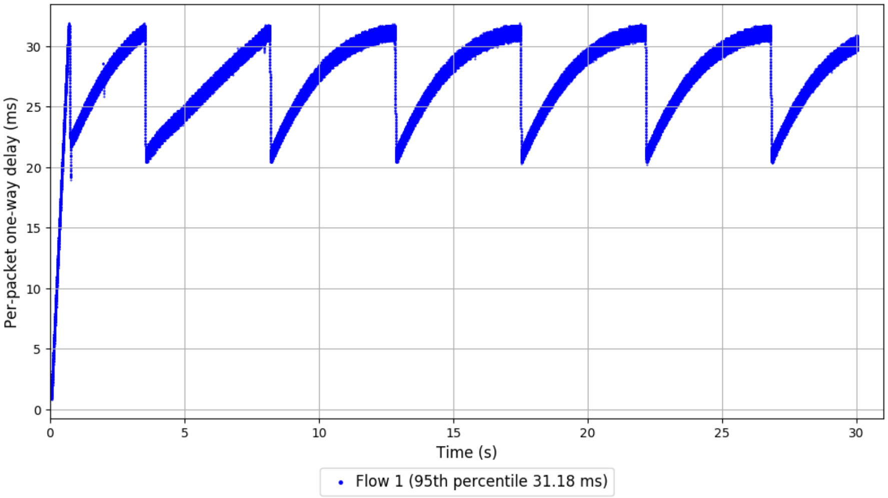




```
Run 3: Statistics of TCP Cubic

Start at: 2018-05-30 09:04:46
End at: 2018-05-30 09:05:16
Local clock offset: -2.993 ms
Remote clock offset: -2.801 ms

# Below is generated by plot.py at 2018-05-30 11:32:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 31.181 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 31.181 ms
Loss rate: 0.01%
```

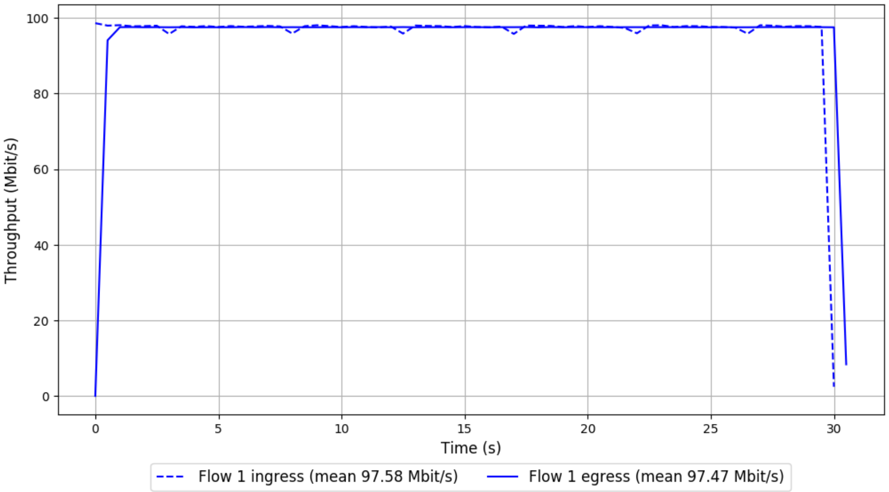
Run 3: Report of TCP Cubic — Data Link

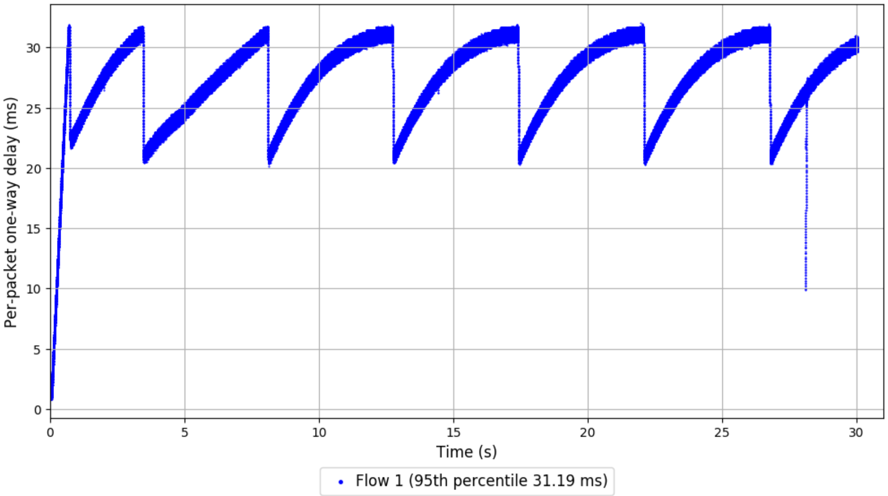




```
Run 4: Statistics of TCP Cubic

Start at: 2018-05-30 09:22:41
End at: 2018-05-30 09:23:11
Local clock offset: -2.67 ms
Remote clock offset: -2.271 ms

# Below is generated by plot.py at 2018-05-30 11:32:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 31.190 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 31.190 ms
Loss rate: 0.01%
```

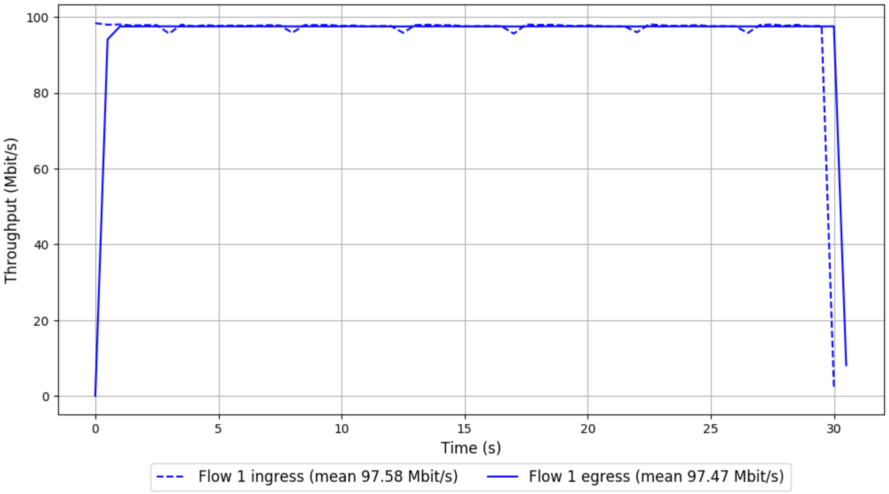
Run 4: Report of TCP Cubic — Data Link

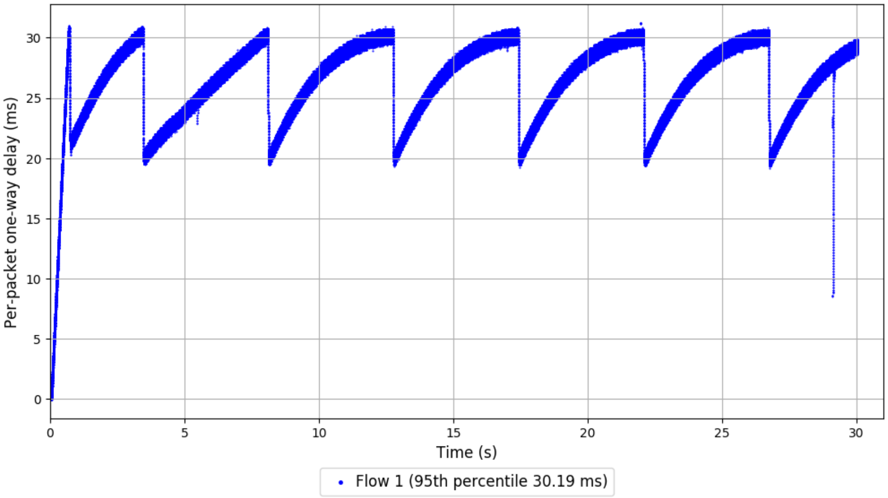




```
Run 5: Statistics of TCP Cubic

Start at: 2018-05-30 09:40:41
End at: 2018-05-30 09:41:11
Local clock offset: -3.788 ms
Remote clock offset: -1.969 ms

# Below is generated by plot.py at 2018-05-30 11:32:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 30.187 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 30.187 ms
Loss rate: 0.01%
```

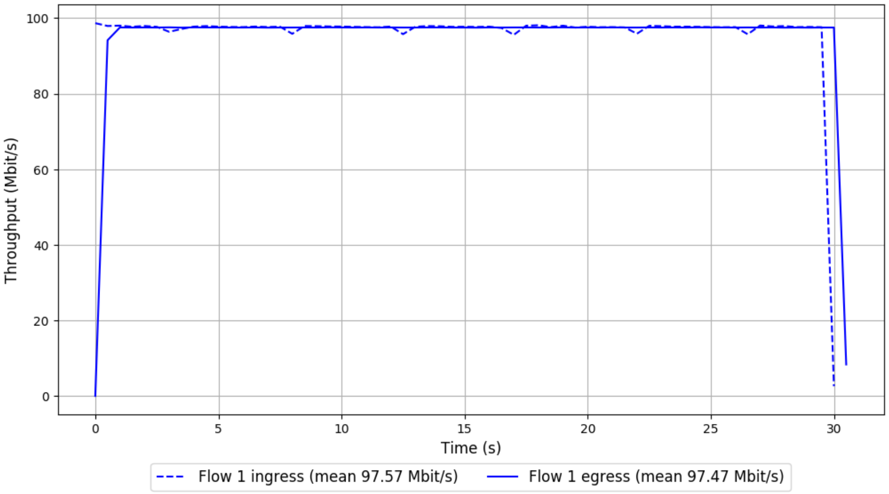
Run 5: Report of TCP Cubic — Data Link

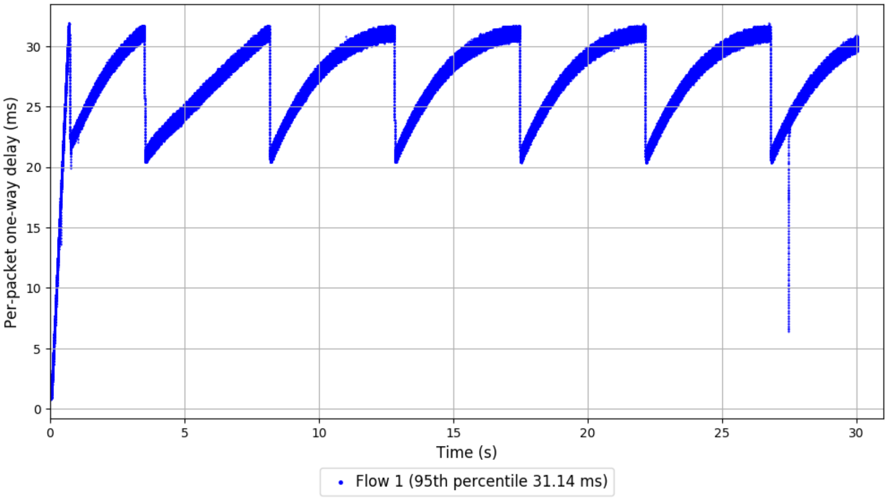




```
Run 6: Statistics of TCP Cubic

Start at: 2018-05-30 09:58:34
End at: 2018-05-30 09:59:04
Local clock offset: -8.046 ms
Remote clock offset: -1.907 ms

# Below is generated by plot.py at 2018-05-30 11:32:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 31.137 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 31.137 ms
Loss rate: 0.01%
```

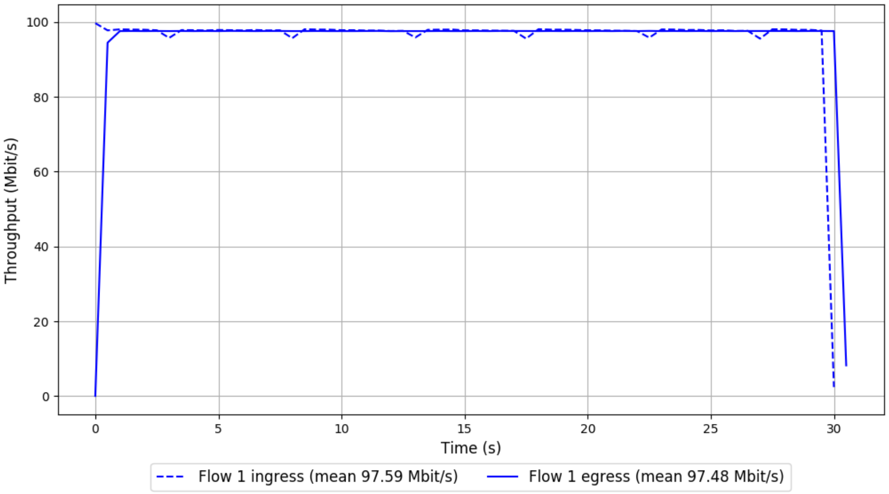
Run 6: Report of TCP Cubic — Data Link

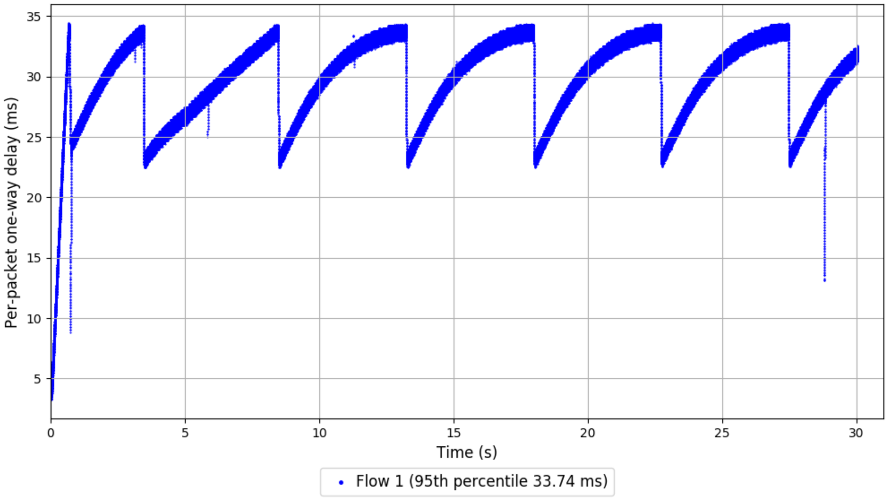




```
Run 7: Statistics of TCP Cubic

Start at: 2018-05-30 10:16:28
End at: 2018-05-30 10:16:58
Local clock offset: -4.702 ms
Remote clock offset: -1.799 ms

# Below is generated by plot.py at 2018-05-30 11:32:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 33.741 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 33.741 ms
Loss rate: 0.02%
```

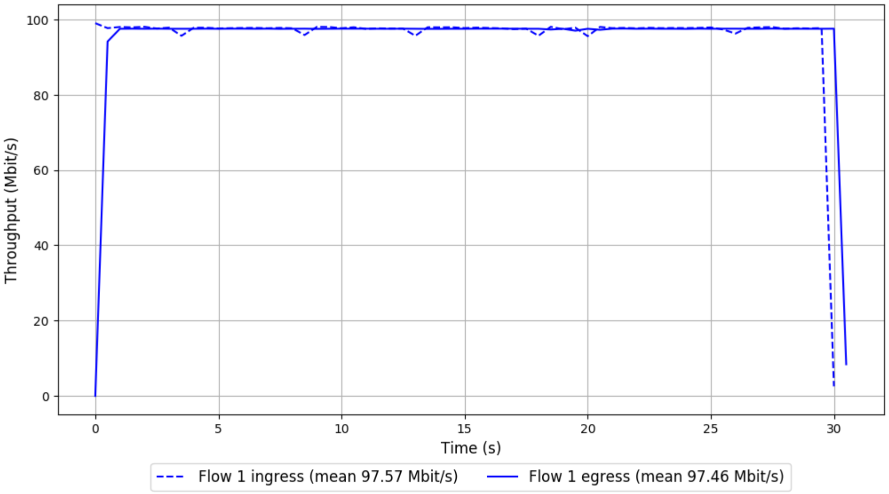
Run 7: Report of TCP Cubic — Data Link

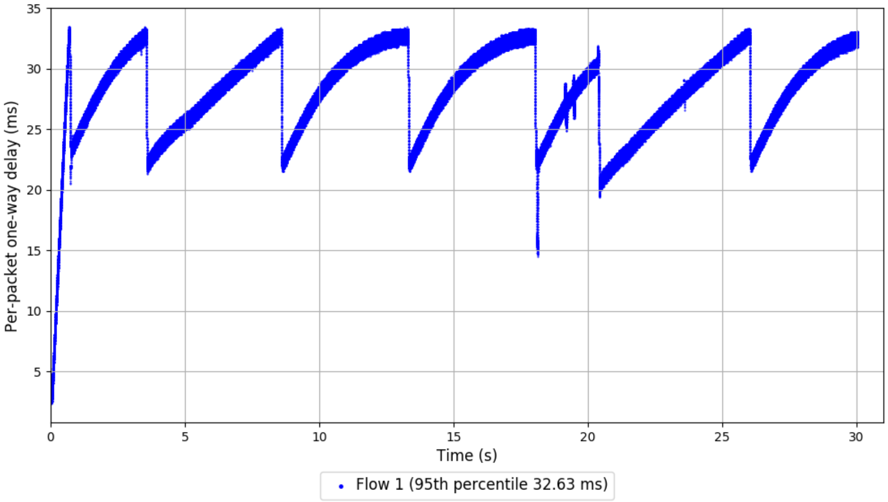




```
Run 8: Statistics of TCP Cubic

Start at: 2018-05-30 10:34:28
End at: 2018-05-30 10:34:58
Local clock offset: -1.641 ms
Remote clock offset: -2.018 ms

# Below is generated by plot.py at 2018-05-30 11:32:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 32.632 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 32.632 ms
Loss rate: 0.02%
```

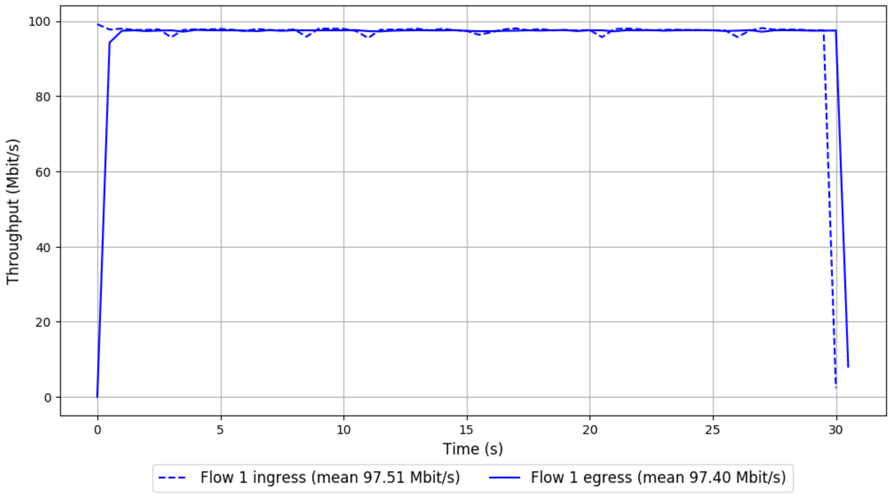
Run 8: Report of TCP Cubic — Data Link

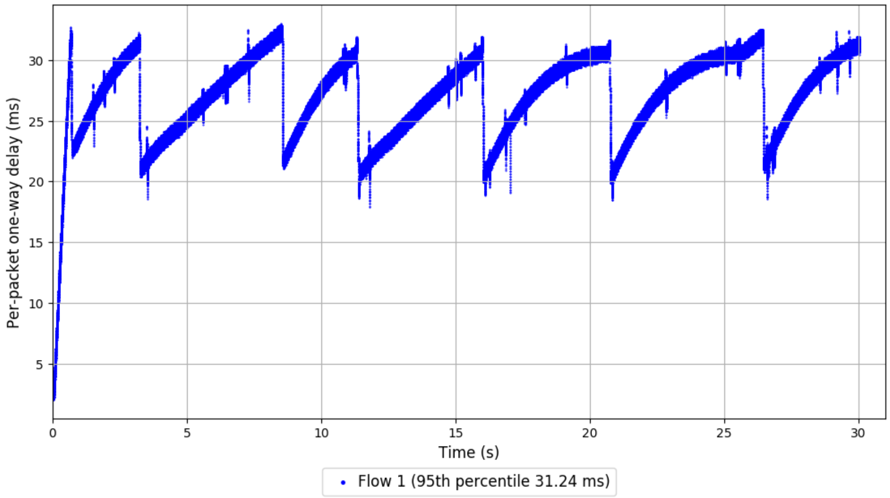




```
Run 9: Statistics of TCP Cubic

Start at: 2018-05-30 10:52:22
End at: 2018-05-30 10:52:52
Local clock offset: -1.626 ms
Remote clock offset: 1.296 ms

# Below is generated by plot.py at 2018-05-30 11:32:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.40 Mbit/s
95th percentile per-packet one-way delay: 31.242 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.40 Mbit/s
95th percentile per-packet one-way delay: 31.242 ms
Loss rate: 0.02%
```

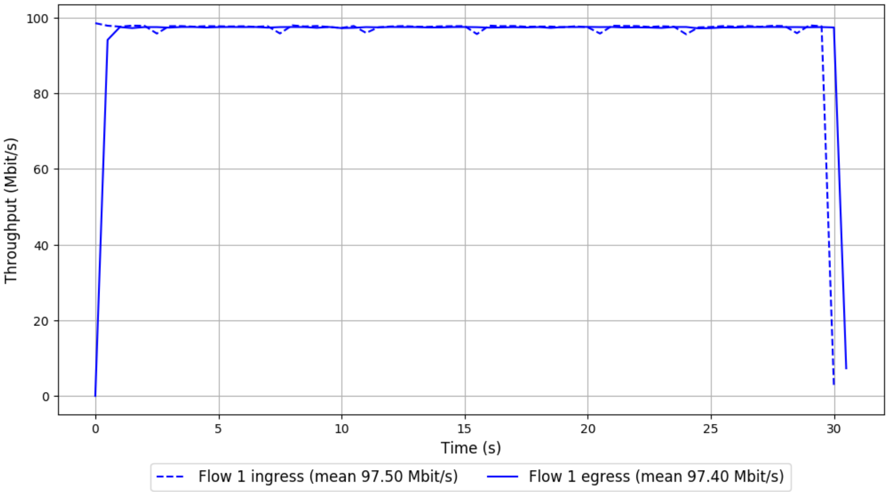
Run 9: Report of TCP Cubic — Data Link

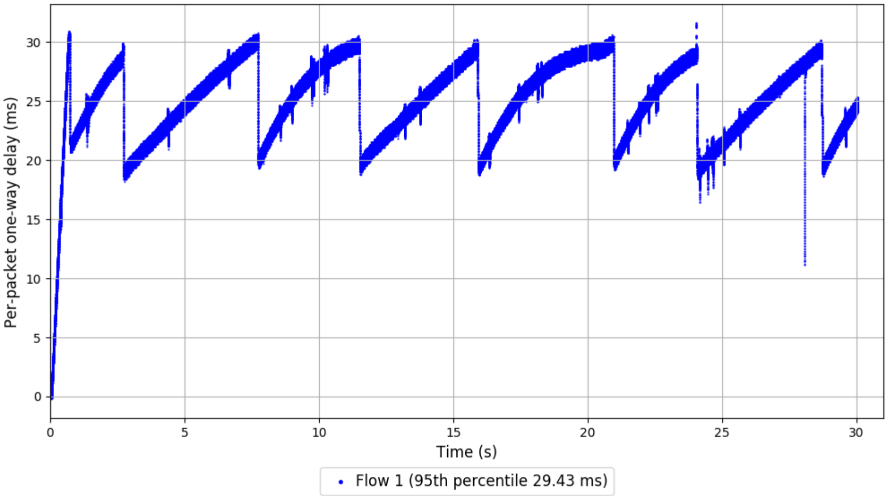




```
Run 10: Statistics of TCP Cubic

Start at: 2018-05-30 11:10:16
End at: 2018-05-30 11:10:46
Local clock offset: -2.755 ms
Remote clock offset: 10.871 ms

# Below is generated by plot.py at 2018-05-30 11:33:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.40 Mbit/s
95th percentile per-packet one-way delay: 29.430 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.40 Mbit/s
95th percentile per-packet one-way delay: 29.430 ms
Loss rate: 0.01%
```

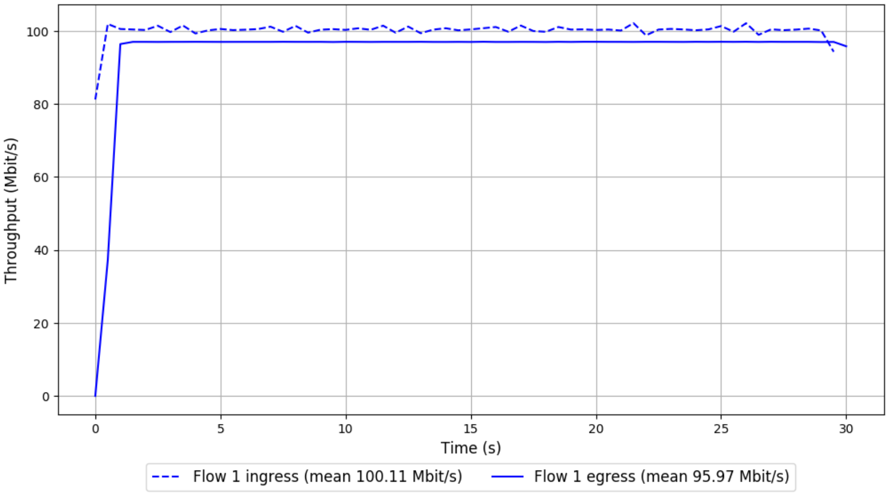
Run 10: Report of TCP Cubic — Data Link

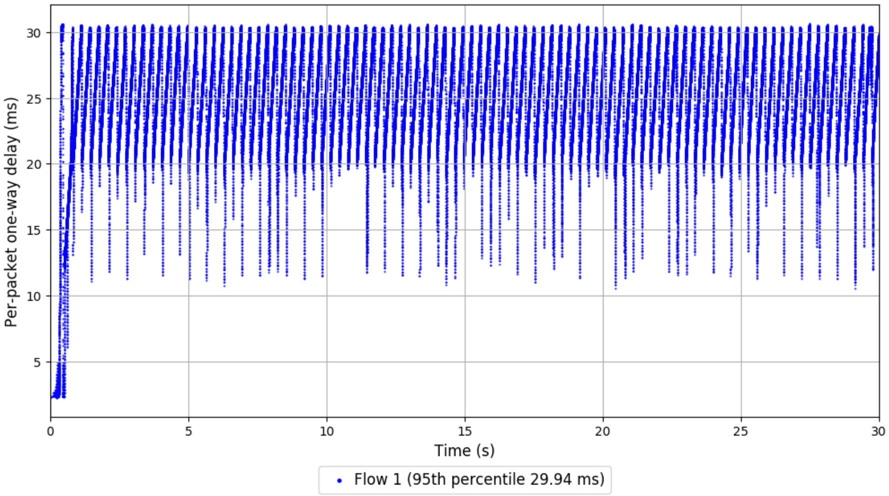




```
Run 1: Statistics of FillP

Start at: 2018-05-30 08:30:04
End at: 2018-05-30 08:30:34
Local clock offset: -3.847 ms
Remote clock offset: -3.192 ms

# Below is generated by plot.py at 2018-05-30 11:34:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.97 Mbit/s
95th percentile per-packet one-way delay: 29.936 ms
Loss rate: 4.05%
-- Flow 1:
Average throughput: 95.97 Mbit/s
95th percentile per-packet one-way delay: 29.936 ms
Loss rate: 4.05%
```

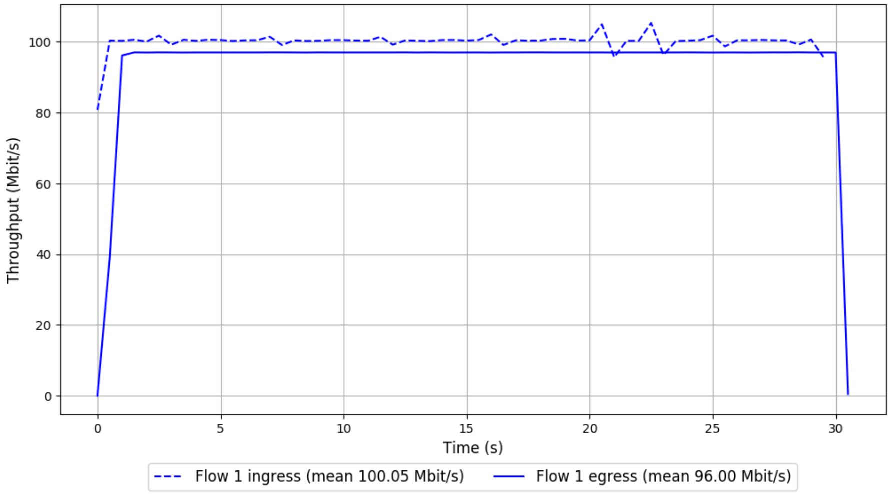
Run 1: Report of FillP — Data Link

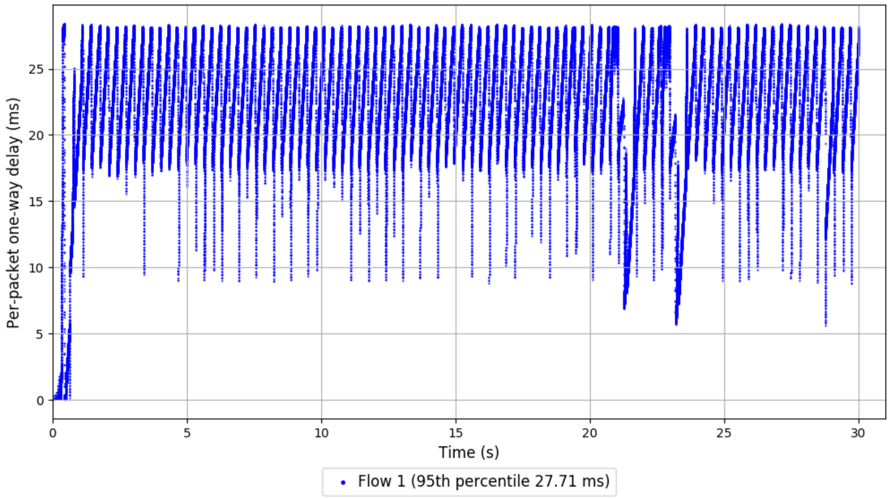




```
Run 2: Statistics of FillP

Start at: 2018-05-30 08:47:59
End at: 2018-05-30 08:48:29
Local clock offset: -2.18 ms
Remote clock offset: -2.856 ms

# Below is generated by plot.py at 2018-05-30 11:34:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.00 Mbit/s
95th percentile per-packet one-way delay: 27.714 ms
Loss rate: 3.97%
-- Flow 1:
Average throughput: 96.00 Mbit/s
95th percentile per-packet one-way delay: 27.714 ms
Loss rate: 3.97%
```

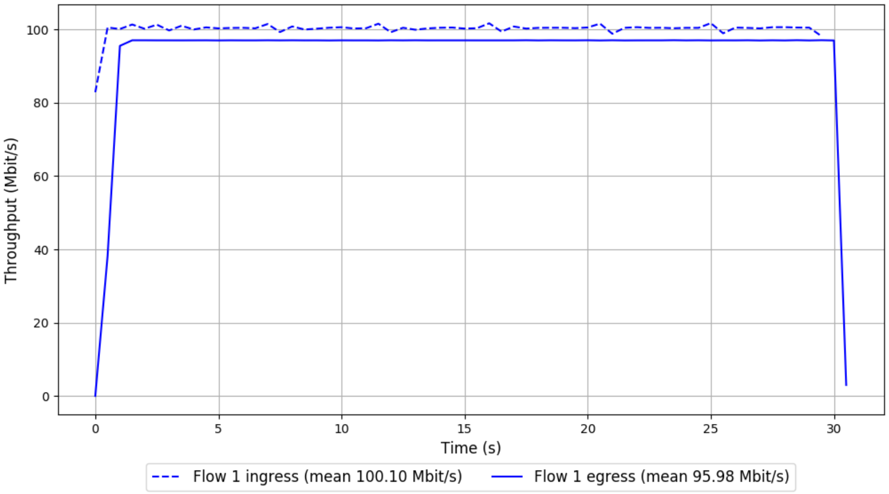
Run 2: Report of FillP — Data Link

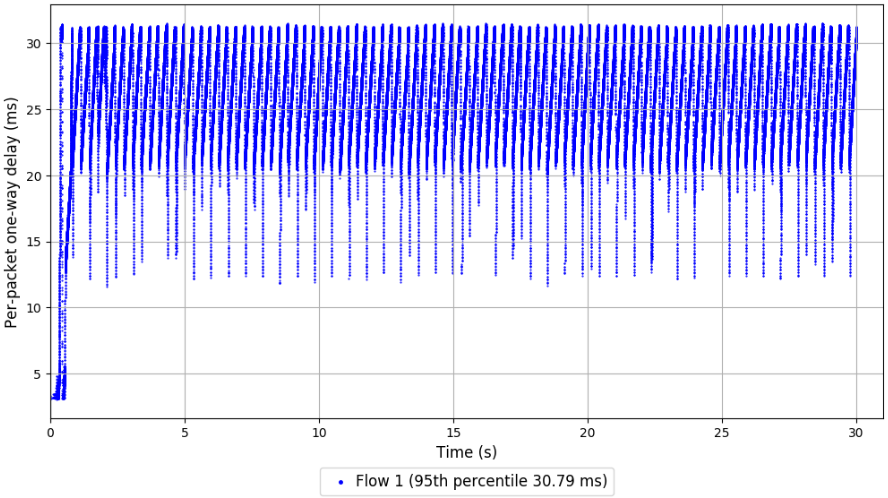




```
Run 3: Statistics of FillP

Start at: 2018-05-30 09:05:54
End at: 2018-05-30 09:06:24
Local clock offset: -3.826 ms
Remote clock offset: -2.767 ms

# Below is generated by plot.py at 2018-05-30 11:34:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 30.792 ms
Loss rate: 4.03%
-- Flow 1:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 30.792 ms
Loss rate: 4.03%
```

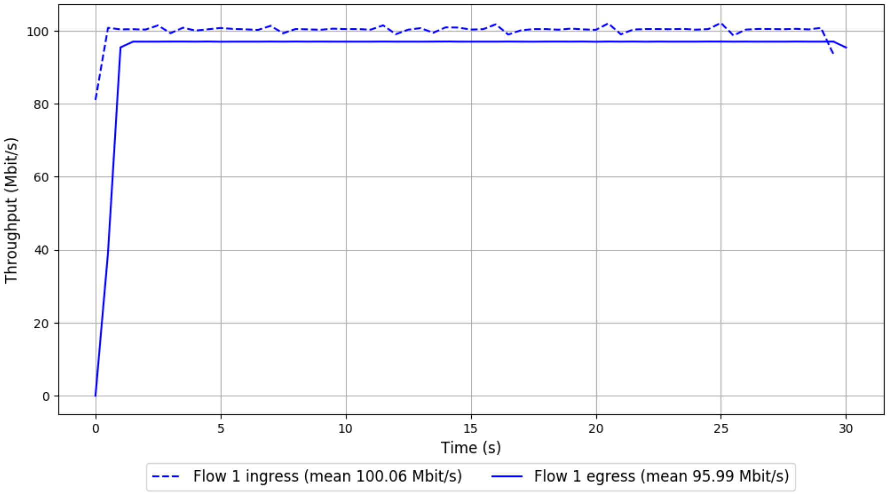
Run 3: Report of FillP — Data Link

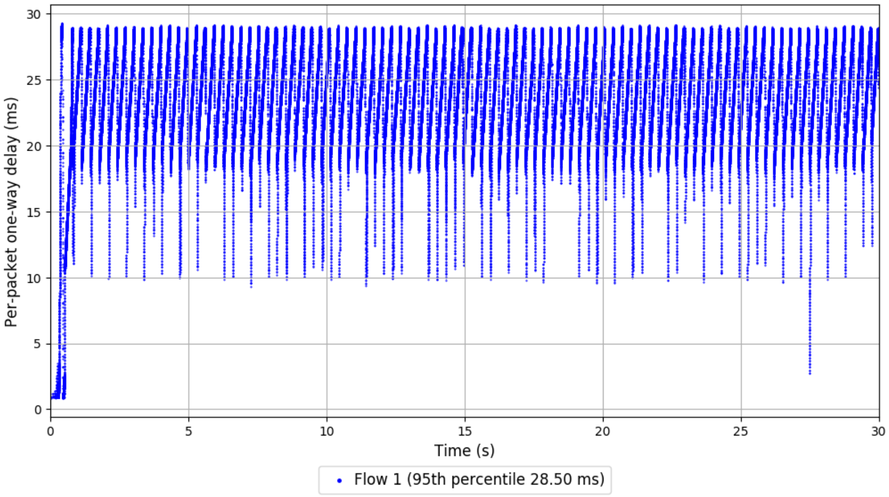




```
Run 4: Statistics of FillP

Start at: 2018-05-30 09:23:54
End at: 2018-05-30 09:24:24
Local clock offset: -2.604 ms
Remote clock offset: -2.145 ms

# Below is generated by plot.py at 2018-05-30 11:34:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.99 Mbit/s
95th percentile per-packet one-way delay: 28.503 ms
Loss rate: 3.98%
-- Flow 1:
Average throughput: 95.99 Mbit/s
95th percentile per-packet one-way delay: 28.503 ms
Loss rate: 3.98%
```

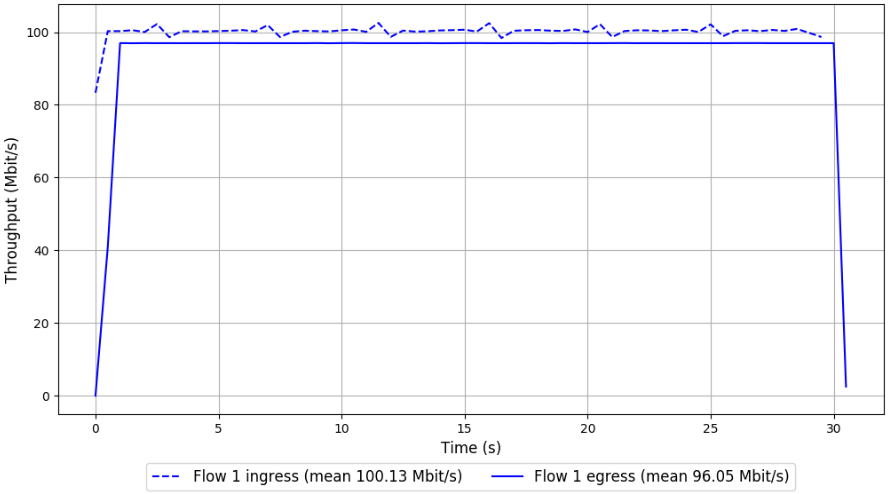
Run 4: Report of FillP — Data Link

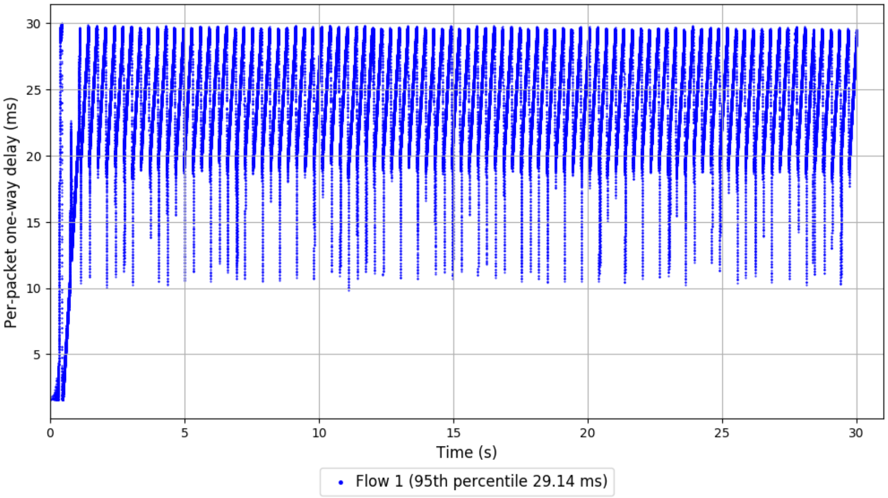




```
Run 5: Statistics of FillP

Start at: 2018-05-30 09:41:49
End at: 2018-05-30 09:42:19
Local clock offset: -5.822 ms
Remote clock offset: -1.965 ms

# Below is generated by plot.py at 2018-05-30 11:34:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.05 Mbit/s
95th percentile per-packet one-way delay: 29.140 ms
Loss rate: 3.99%
-- Flow 1:
Average throughput: 96.05 Mbit/s
95th percentile per-packet one-way delay: 29.140 ms
Loss rate: 3.99%
```

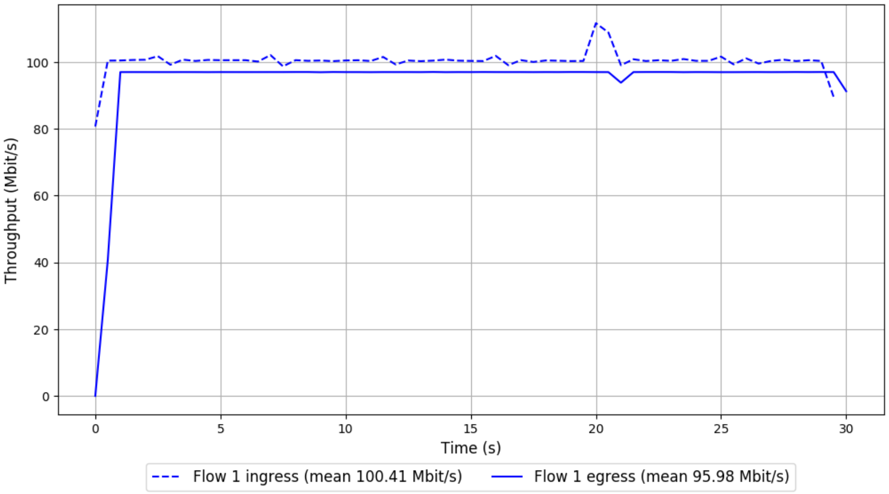
Run 5: Report of FillP — Data Link

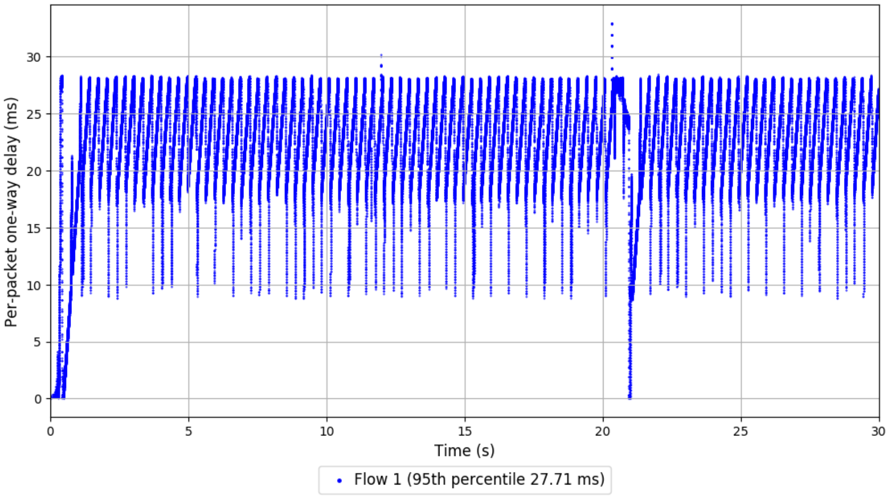




```
Run 6: Statistics of FillP

Start at: 2018-05-30 09:59:41
End at: 2018-05-30 10:00:11
Local clock offset: -7.432 ms
Remote clock offset: -1.909 ms

# Below is generated by plot.py at 2018-05-30 11:34:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 27.707 ms
Loss rate: 4.32%
-- Flow 1:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 27.707 ms
Loss rate: 4.32%
```

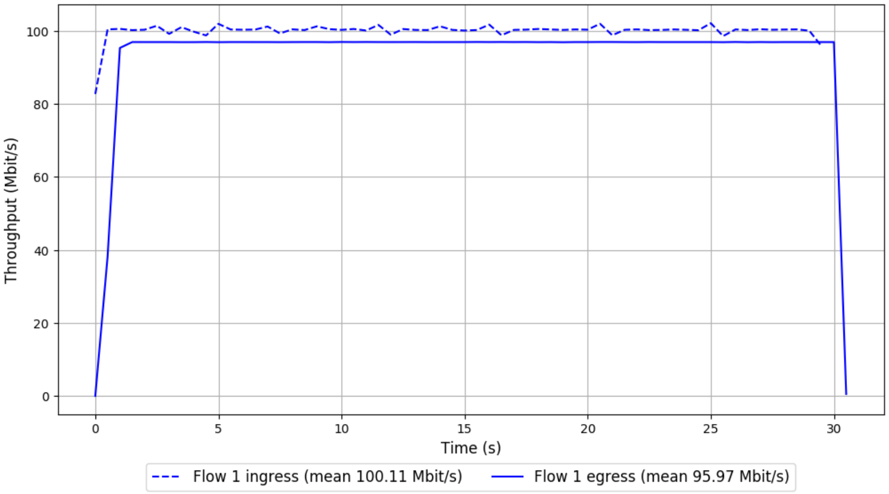
Run 6: Report of FillP — Data Link

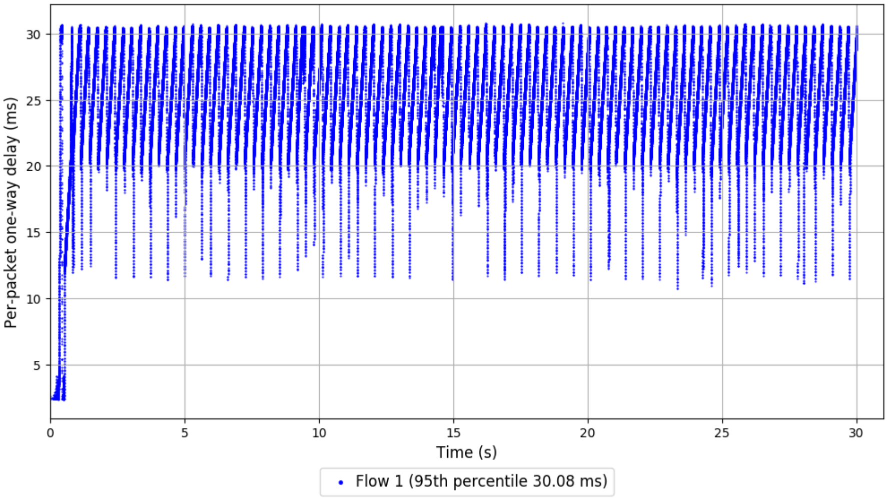




```
Run 7: Statistics of FillP

Start at: 2018-05-30 10:17:35
End at: 2018-05-30 10:18:05
Local clock offset: -3.592 ms
Remote clock offset: -1.895 ms

# Below is generated by plot.py at 2018-05-30 11:34:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.97 Mbit/s
95th percentile per-packet one-way delay: 30.077 ms
Loss rate: 4.05%
-- Flow 1:
Average throughput: 95.97 Mbit/s
95th percentile per-packet one-way delay: 30.077 ms
Loss rate: 4.05%
```

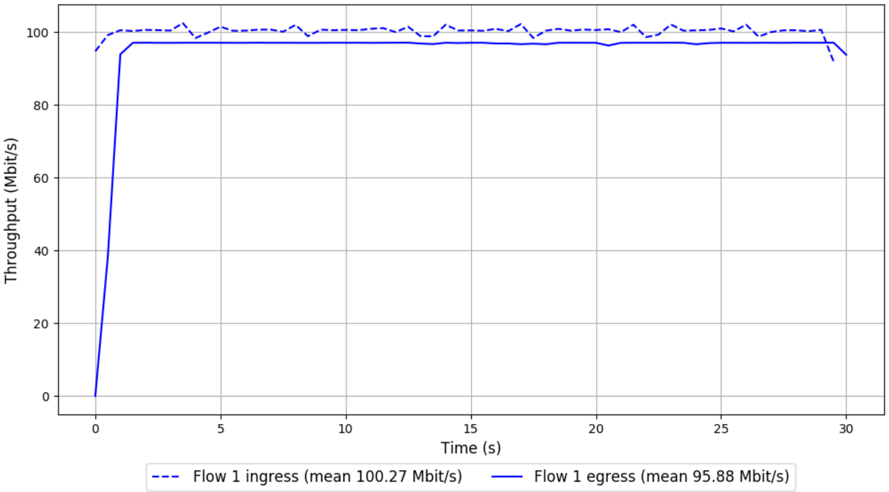
Run 7: Report of FillP — Data Link

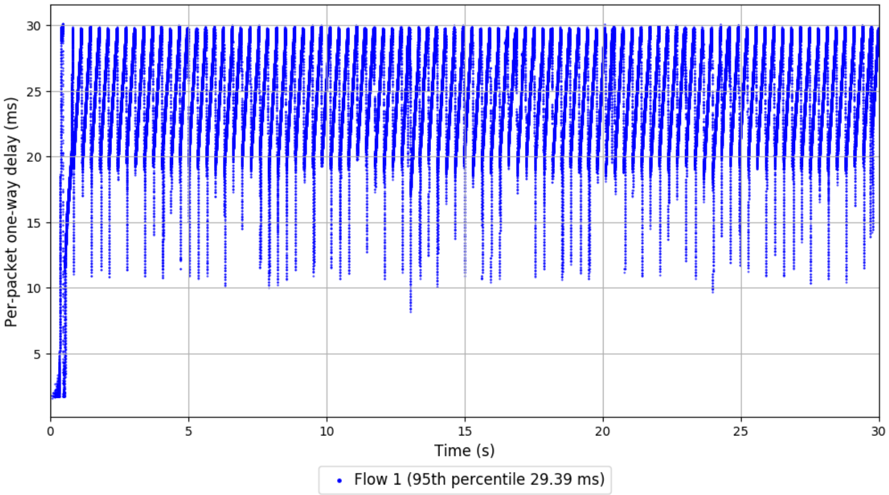




```
Run 8: Statistics of FillP

Start at: 2018-05-30 10:35:35
End at: 2018-05-30 10:36:05
Local clock offset: -2.397 ms
Remote clock offset: -2.018 ms

# Below is generated by plot.py at 2018-05-30 11:34:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.88 Mbit/s
95th percentile per-packet one-way delay: 29.386 ms
Loss rate: 4.28%
-- Flow 1:
Average throughput: 95.88 Mbit/s
95th percentile per-packet one-way delay: 29.386 ms
Loss rate: 4.28%
```

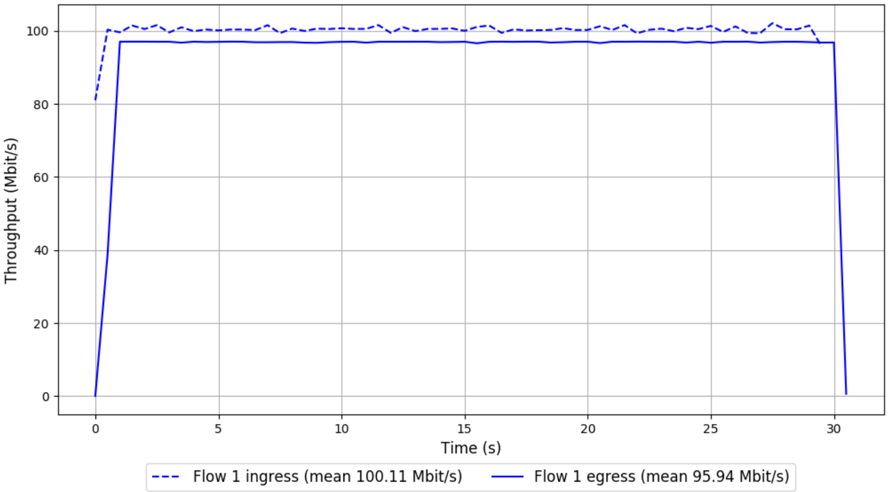
Run 8: Report of FillP — Data Link

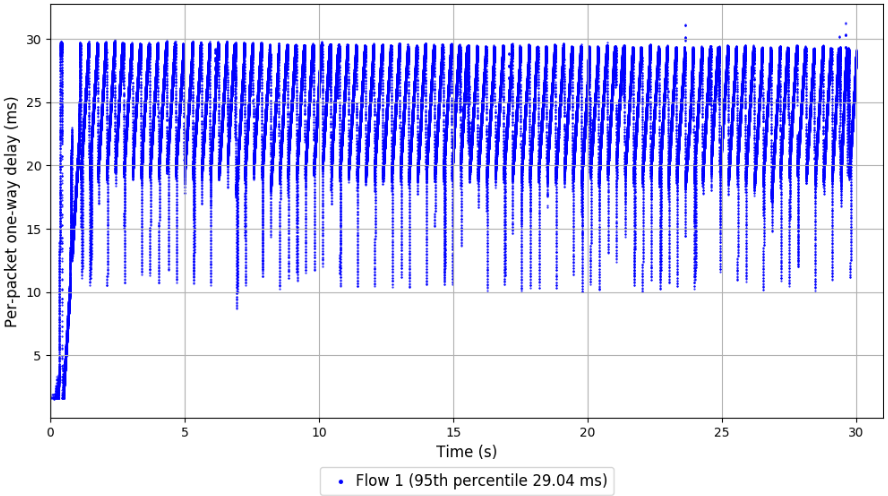




```
Run 9: Statistics of FillP

Start at: 2018-05-30 10:53:30
End at: 2018-05-30 10:54:00
Local clock offset: -2.383 ms
Remote clock offset: 2.656 ms

# Below is generated by plot.py at 2018-05-30 11:35:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.94 Mbit/s
95th percentile per-packet one-way delay: 29.039 ms
Loss rate: 4.08%
-- Flow 1:
Average throughput: 95.94 Mbit/s
95th percentile per-packet one-way delay: 29.039 ms
Loss rate: 4.08%
```

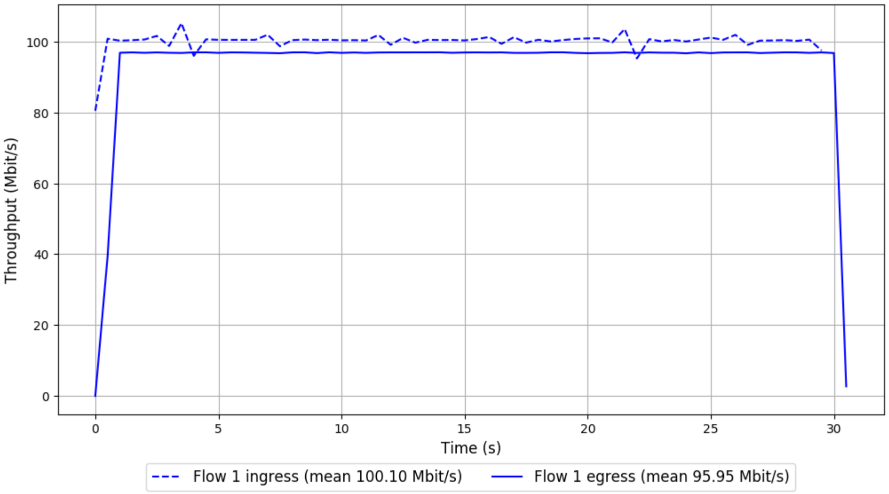
Run 9: Report of FillP — Data Link

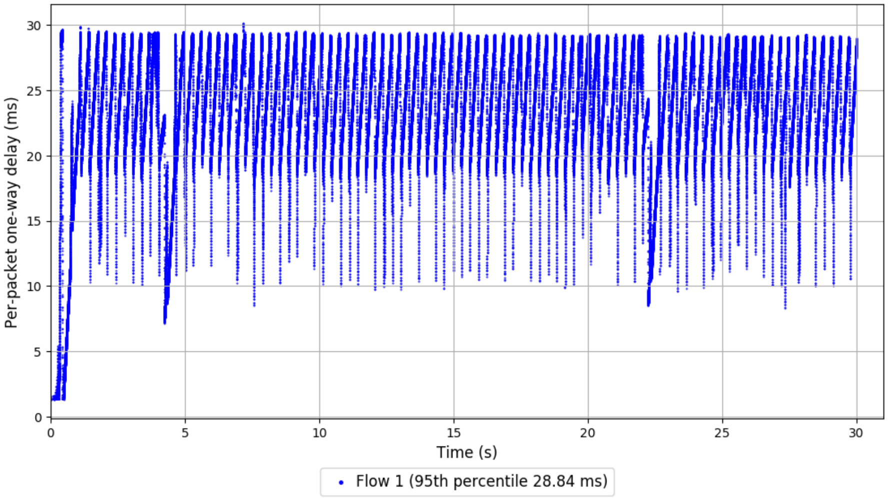




```
Run 10: Statistics of FillP

Start at: 2018-05-30 11:11:23
End at: 2018-05-30 11:11:53
Local clock offset: -4.807 ms
Remote clock offset: 11.127 ms

# Below is generated by plot.py at 2018-05-30 11:35:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.95 Mbit/s
95th percentile per-packet one-way delay: 28.835 ms
Loss rate: 4.06%
-- Flow 1:
Average throughput: 95.95 Mbit/s
95th percentile per-packet one-way delay: 28.835 ms
Loss rate: 4.06%
```

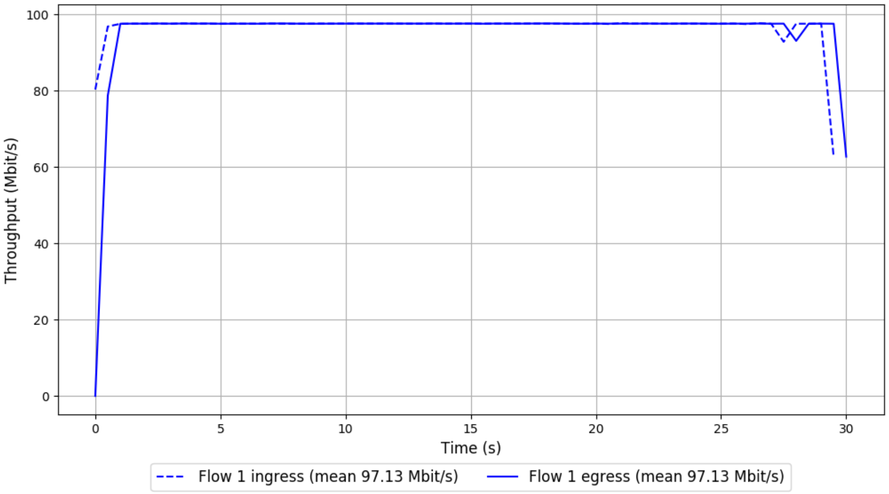
Run 10: Report of FillP — Data Link

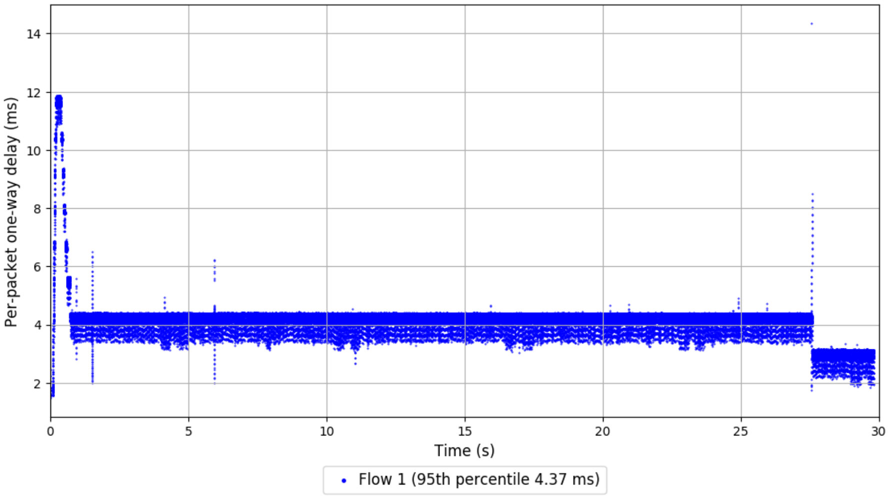




```
Run 1: Statistics of Indigo

Start at: 2018-05-30 08:31:16
End at: 2018-05-30 08:31:46
Local clock offset: -3.111 ms
Remote clock offset: -3.186 ms

# Below is generated by plot.py at 2018-05-30 11:35:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 4.374 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 4.374 ms
Loss rate: 0.01%
```

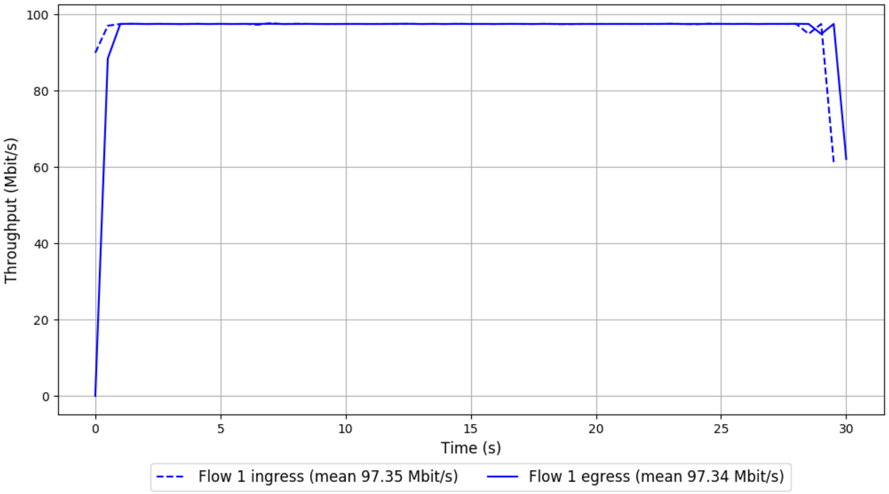
Run 1: Report of Indigo — Data Link

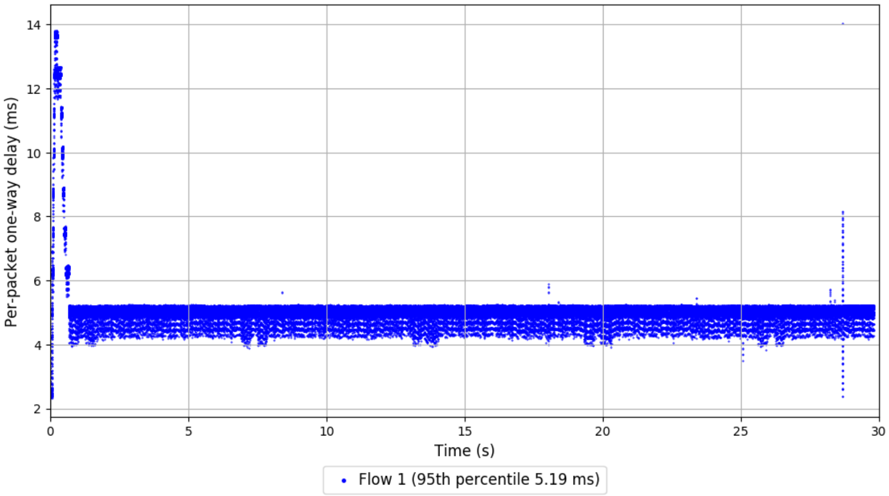




```
Run 2: Statistics of Indigo

Start at: 2018-05-30 08:49:06
End at: 2018-05-30 08:49:36
Local clock offset: -2.994 ms
Remote clock offset: -2.845 ms

# Below is generated by plot.py at 2018-05-30 11:35:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.34 Mbit/s
95th percentile per-packet one-way delay: 5.194 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.34 Mbit/s
95th percentile per-packet one-way delay: 5.194 ms
Loss rate: 0.00%
```

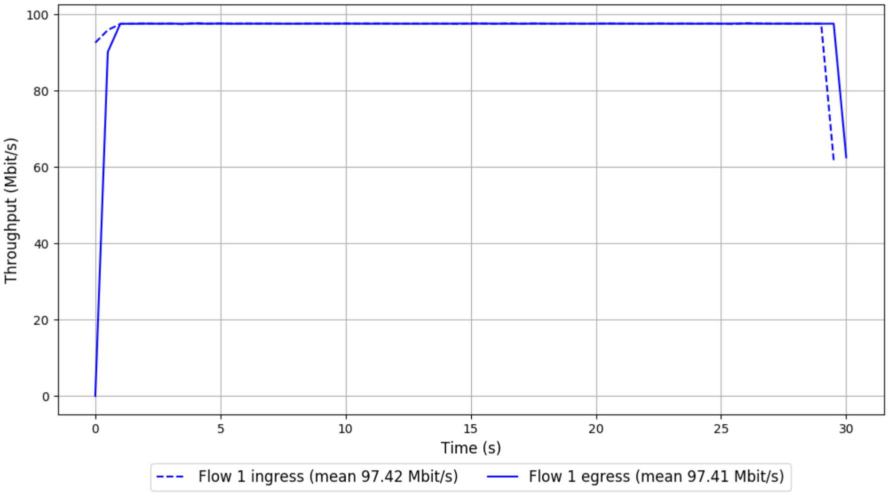
Run 2: Report of Indigo — Data Link

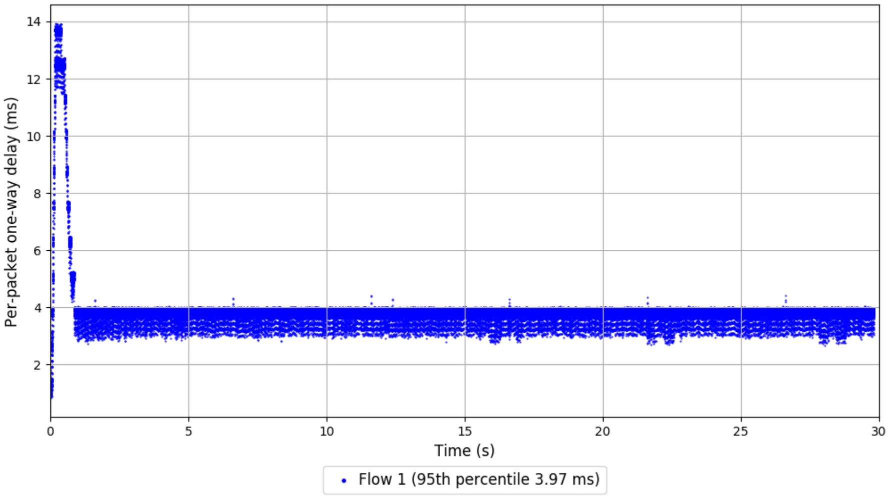




```
Run 3: Statistics of Indigo

Start at: 2018-05-30 09:07:00
End at: 2018-05-30 09:07:30
Local clock offset: -2.97 ms
Remote clock offset: -2.734 ms

# Below is generated by plot.py at 2018-05-30 11:35:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.41 Mbit/s
95th percentile per-packet one-way delay: 3.974 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.41 Mbit/s
95th percentile per-packet one-way delay: 3.974 ms
Loss rate: 0.00%
```

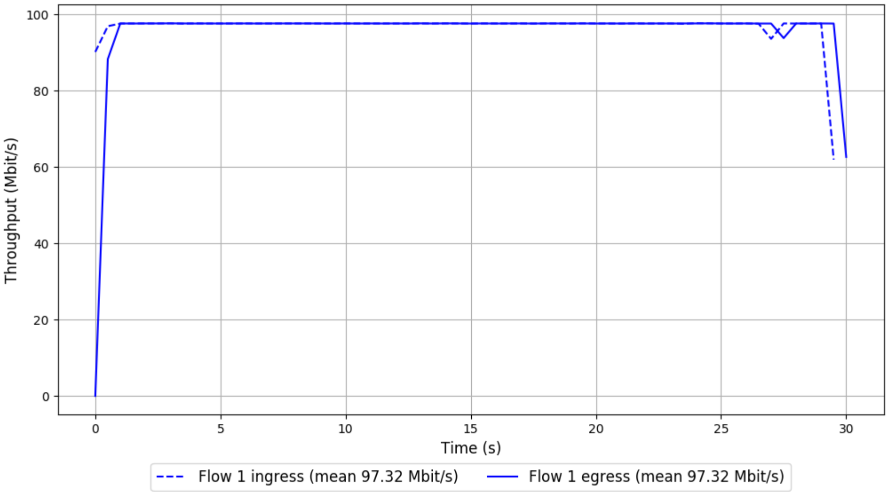
Run 3: Report of Indigo — Data Link

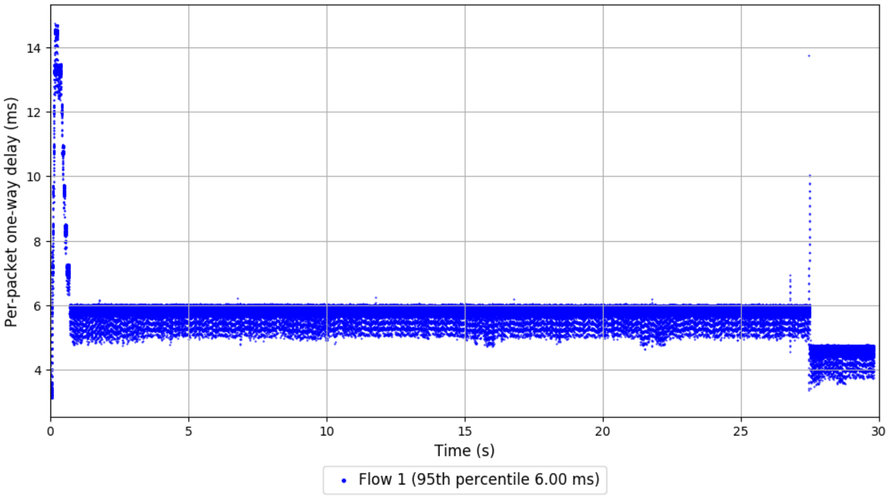




```
Run 4: Statistics of Indigo

Start at: 2018-05-30 09:25:00
End at: 2018-05-30 09:25:30
Local clock offset: -3.453 ms
Remote clock offset: -2.142 ms

# Below is generated by plot.py at 2018-05-30 11:35:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.32 Mbit/s
95th percentile per-packet one-way delay: 5.998 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.32 Mbit/s
95th percentile per-packet one-way delay: 5.998 ms
Loss rate: 0.00%
```

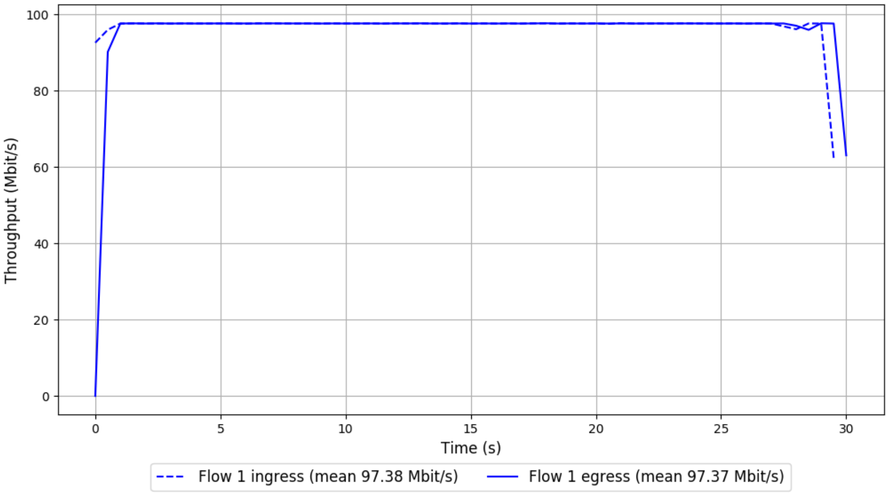
Run 4: Report of Indigo — Data Link

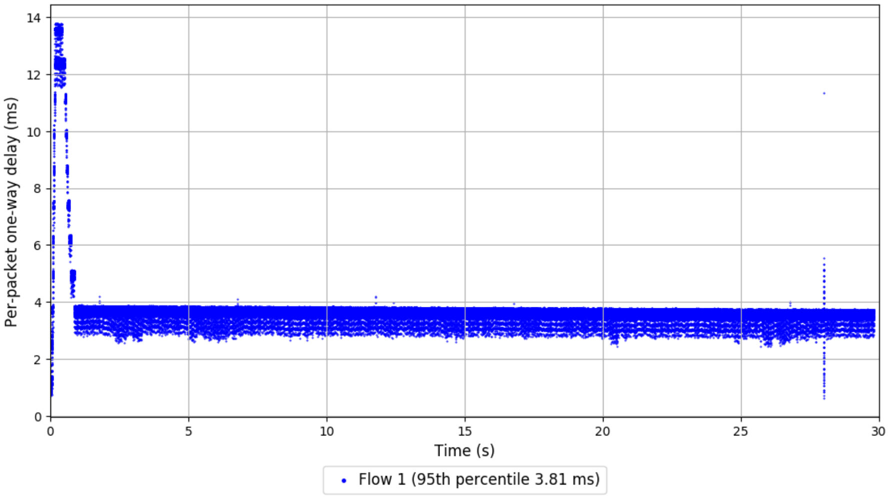




```
Run 5: Statistics of Indigo

Start at: 2018-05-30 09:42:55
End at: 2018-05-30 09:43:25
Local clock offset: -5.351 ms
Remote clock offset: -1.951 ms

# Below is generated by plot.py at 2018-05-30 11:35:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.37 Mbit/s
95th percentile per-packet one-way delay: 3.811 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.37 Mbit/s
95th percentile per-packet one-way delay: 3.811 ms
Loss rate: 0.00%
```

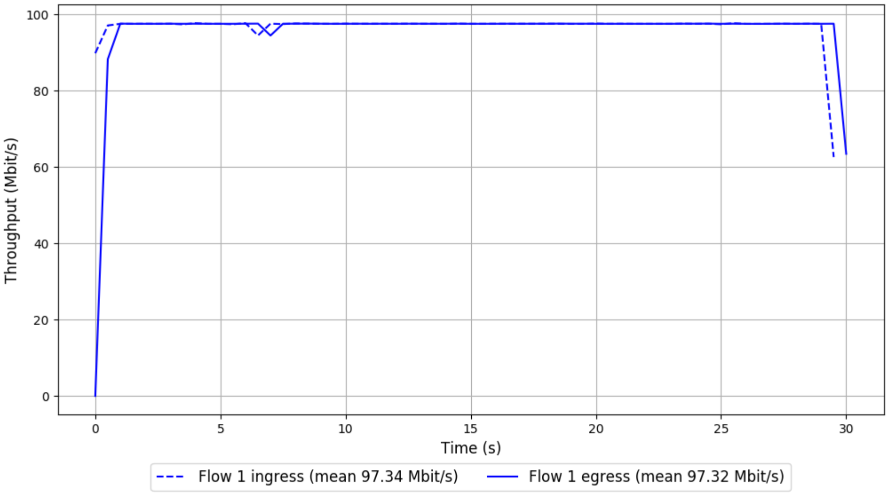
Run 5: Report of Indigo — Data Link

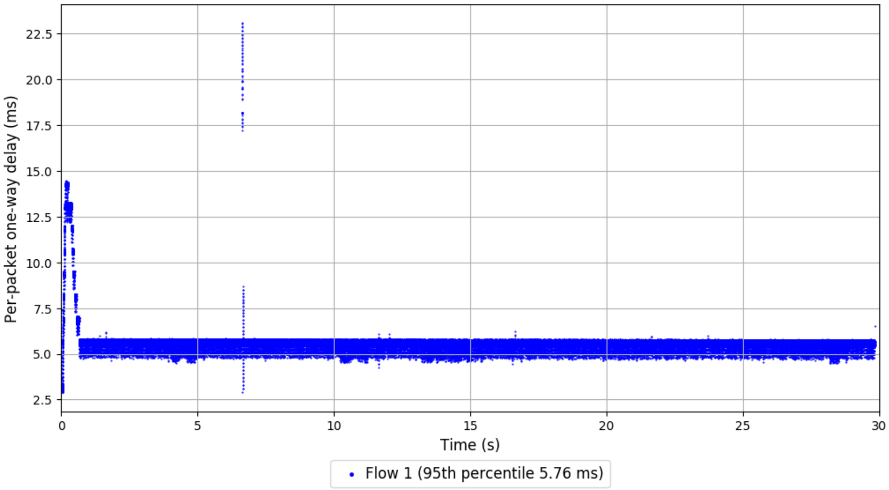




```
Run 6: Statistics of Indigo

Start at: 2018-05-30 10:00:48
End at: 2018-05-30 10:01:18
Local clock offset: -9.03 ms
Remote clock offset: -1.964 ms

# Below is generated by plot.py at 2018-05-30 11:35:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.32 Mbit/s
95th percentile per-packet one-way delay: 5.760 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.32 Mbit/s
95th percentile per-packet one-way delay: 5.760 ms
Loss rate: 0.00%
```

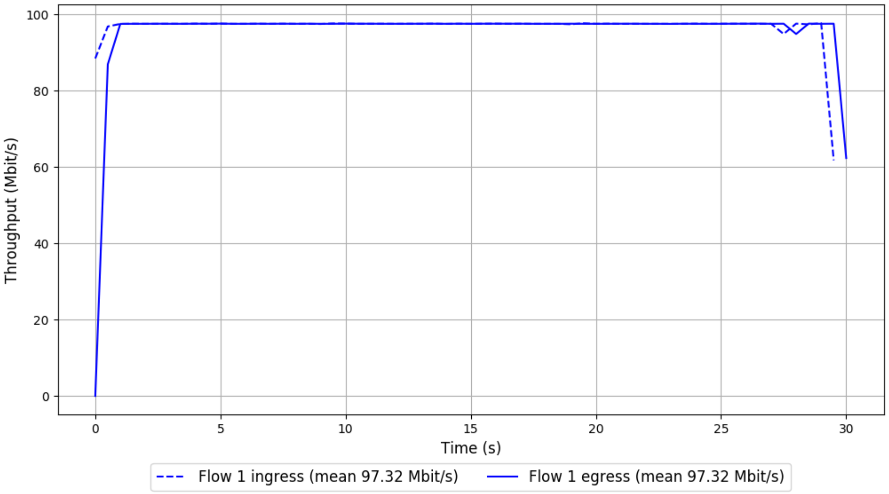
Run 6: Report of Indigo — Data Link

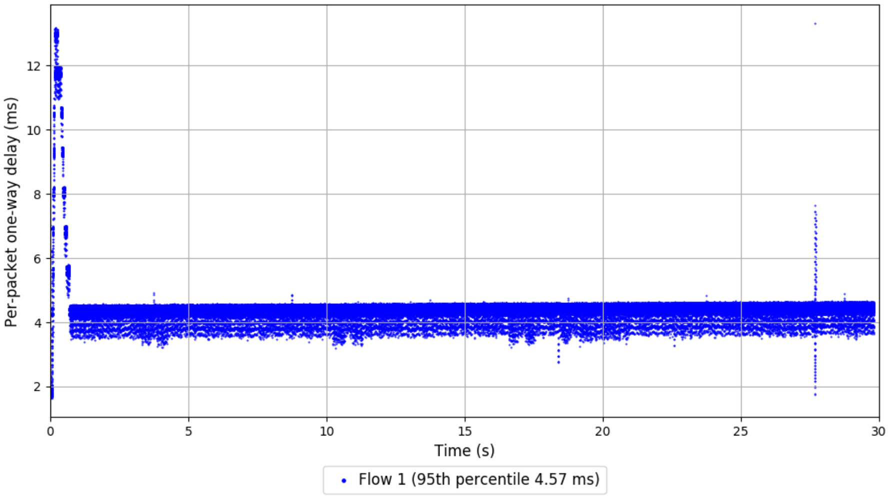




```
Run 7: Statistics of Indigo

Start at: 2018-05-30 10:18:42
End at: 2018-05-30 10:19:12
Local clock offset: -2.574 ms
Remote clock offset: -1.857 ms

# Below is generated by plot.py at 2018-05-30 11:36:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.32 Mbit/s
95th percentile per-packet one-way delay: 4.565 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.32 Mbit/s
95th percentile per-packet one-way delay: 4.565 ms
Loss rate: 0.00%
```

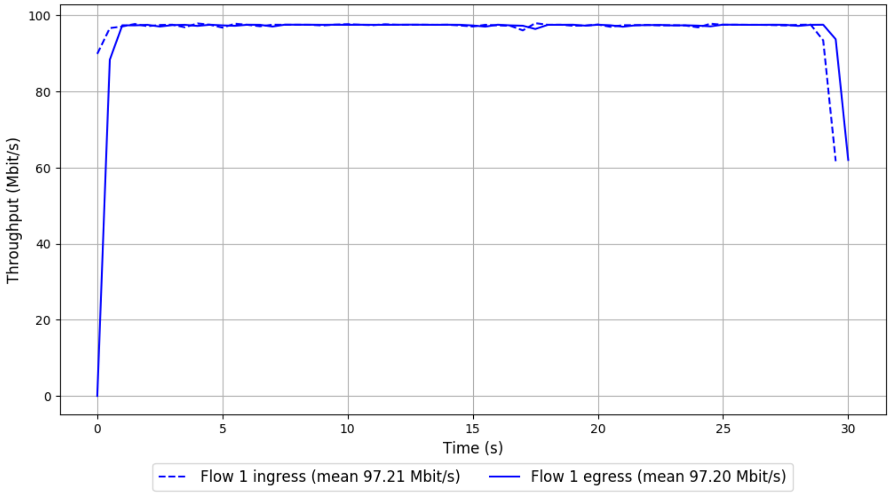
Run 7: Report of Indigo — Data Link

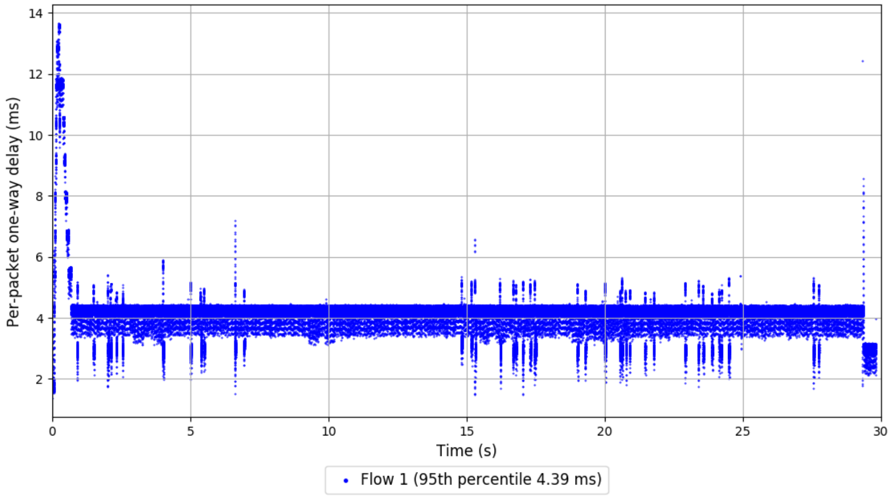




```
Run 8: Statistics of Indigo

Start at: 2018-05-30 10:36:42
End at: 2018-05-30 10:37:12
Local clock offset: -0.768 ms
Remote clock offset: -2.003 ms

# Below is generated by plot.py at 2018-05-30 11:36:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.20 Mbit/s
95th percentile per-packet one-way delay: 4.387 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.20 Mbit/s
95th percentile per-packet one-way delay: 4.387 ms
Loss rate: 0.00%
```

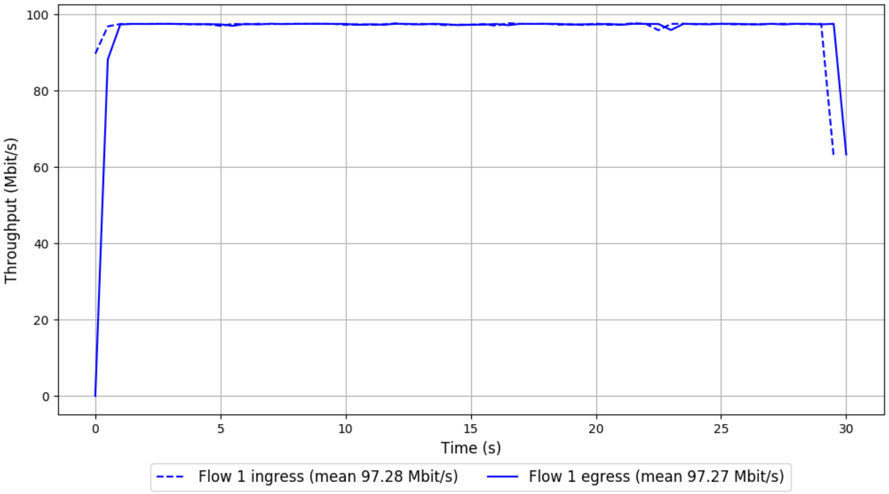
Run 8: Report of Indigo — Data Link

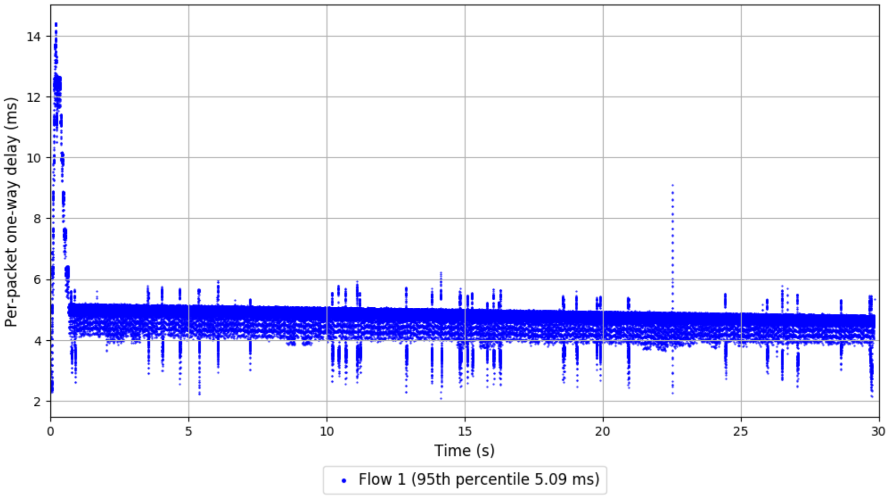




```
Run 9: Statistics of Indigo

Start at: 2018-05-30 10:54:37
End at: 2018-05-30 10:55:07
Local clock offset: -1.665 ms
Remote clock offset: 3.596 ms

# Below is generated by plot.py at 2018-05-30 11:36:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.27 Mbit/s
95th percentile per-packet one-way delay: 5.094 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.27 Mbit/s
95th percentile per-packet one-way delay: 5.094 ms
Loss rate: 0.00%
```

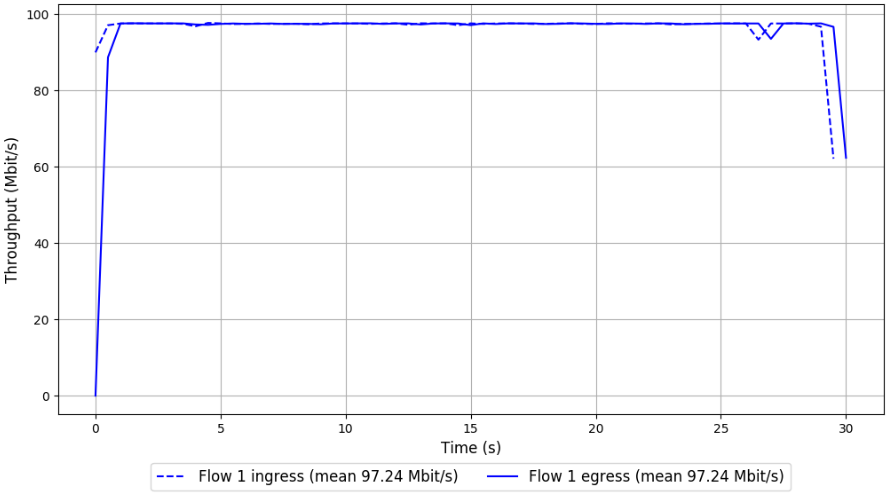
Run 9: Report of Indigo — Data Link

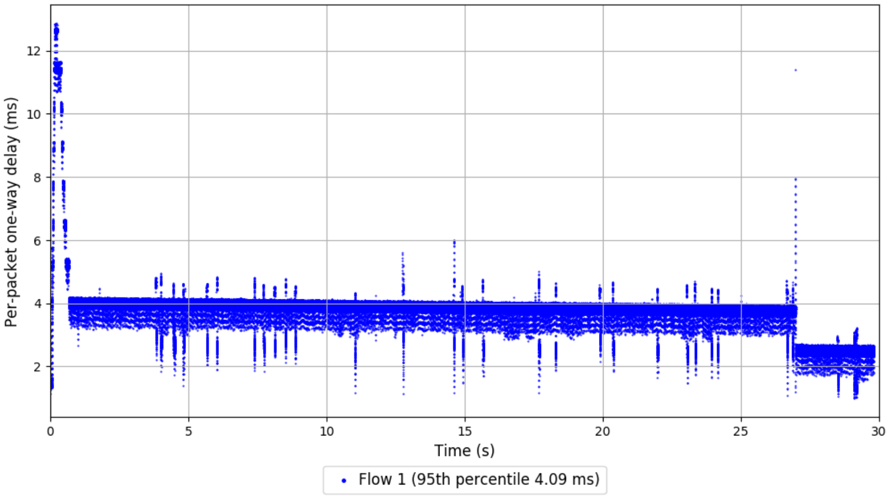




```
Run 10: Statistics of Indigo

Start at: 2018-05-30 11:12:30
End at: 2018-05-30 11:13:00
Local clock offset: -3.739 ms
Remote clock offset: 11.405 ms

# Below is generated by plot.py at 2018-05-30 11:36:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.24 Mbit/s
95th percentile per-packet one-way delay: 4.090 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.24 Mbit/s
95th percentile per-packet one-way delay: 4.090 ms
Loss rate: 0.00%
```

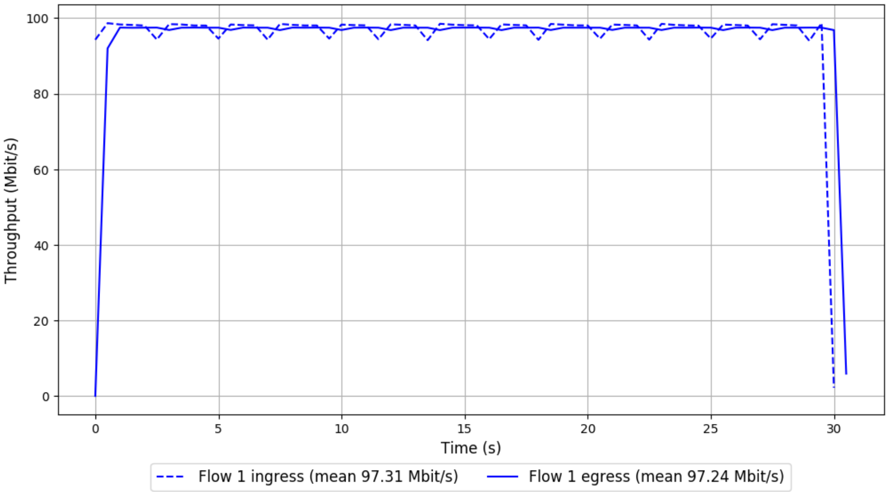
Run 10: Report of Indigo — Data Link

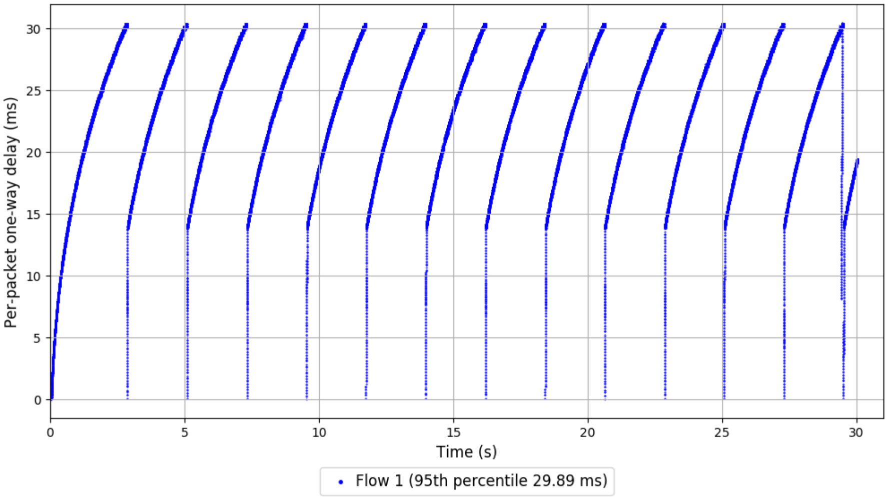




```
Run 1: Statistics of LEDBAT

Start at: 2018-05-30 08:25:36
End at: 2018-05-30 08:26:06
Local clock offset: -3.006 ms
Remote clock offset: -3.126 ms

# Below is generated by plot.py at 2018-05-30 11:36:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.24 Mbit/s
95th percentile per-packet one-way delay: 29.886 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.24 Mbit/s
95th percentile per-packet one-way delay: 29.886 ms
Loss rate: 0.01%
```

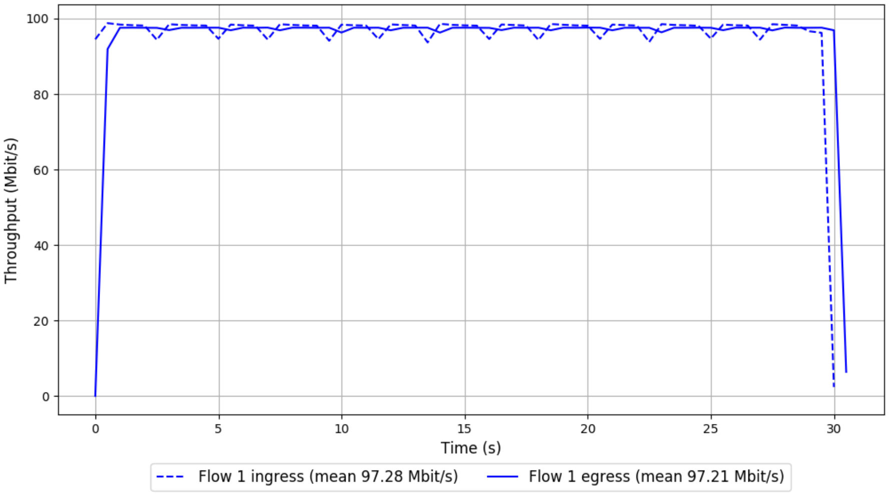
Run 1: Report of LEDBAT — Data Link

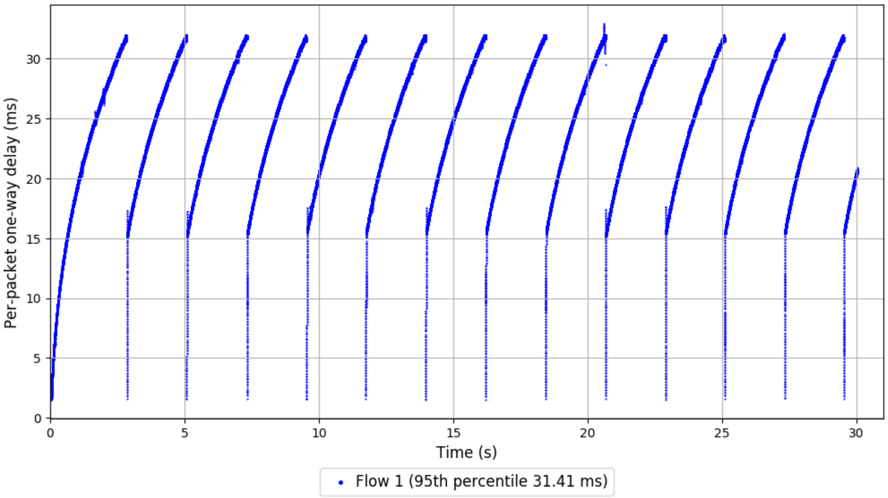




```
Run 2: Statistics of LEDBAT

Start at: 2018-05-30 08:43:31
End at: 2018-05-30 08:44:01
Local clock offset: -3.913 ms
Remote clock offset: -2.938 ms

# Below is generated by plot.py at 2018-05-30 11:36:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.21 Mbit/s
95th percentile per-packet one-way delay: 31.406 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.21 Mbit/s
95th percentile per-packet one-way delay: 31.406 ms
Loss rate: 0.01%
```

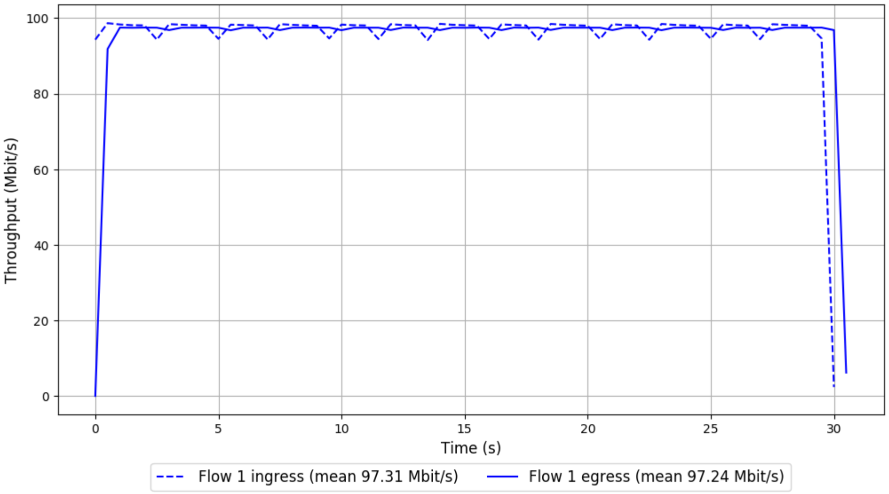
Run 2: Report of LEDBAT — Data Link

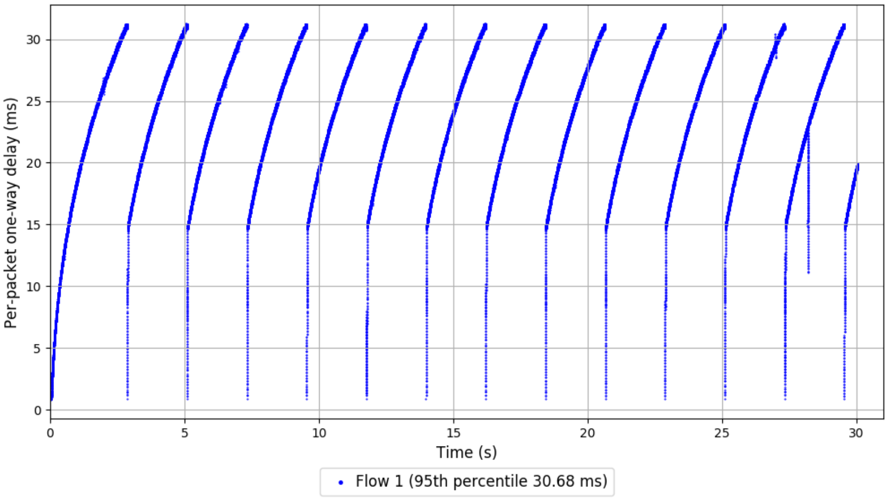




```
Run 3: Statistics of LEDBAT

Start at: 2018-05-30 09:01:25
End at: 2018-05-30 09:01:55
Local clock offset: -2.929 ms
Remote clock offset: -2.765 ms

# Below is generated by plot.py at 2018-05-30 11:36:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.24 Mbit/s
95th percentile per-packet one-way delay: 30.684 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.24 Mbit/s
95th percentile per-packet one-way delay: 30.684 ms
Loss rate: 0.01%
```

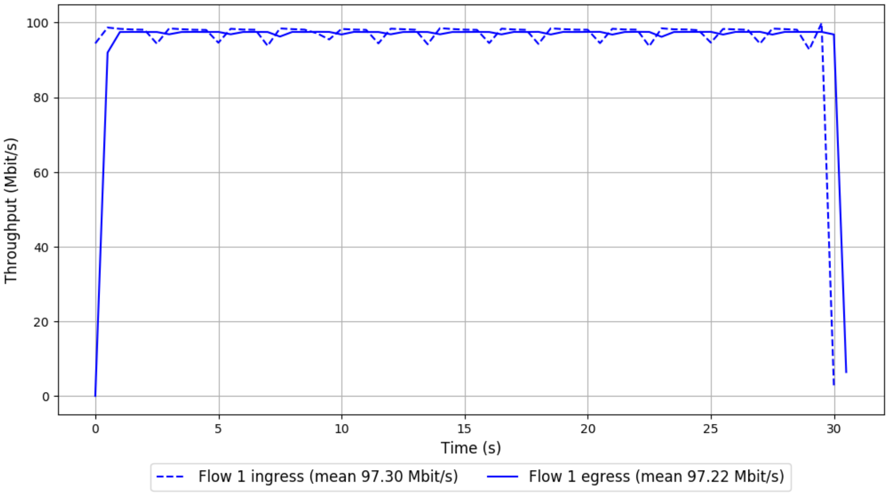
Run 3: Report of LEDBAT — Data Link

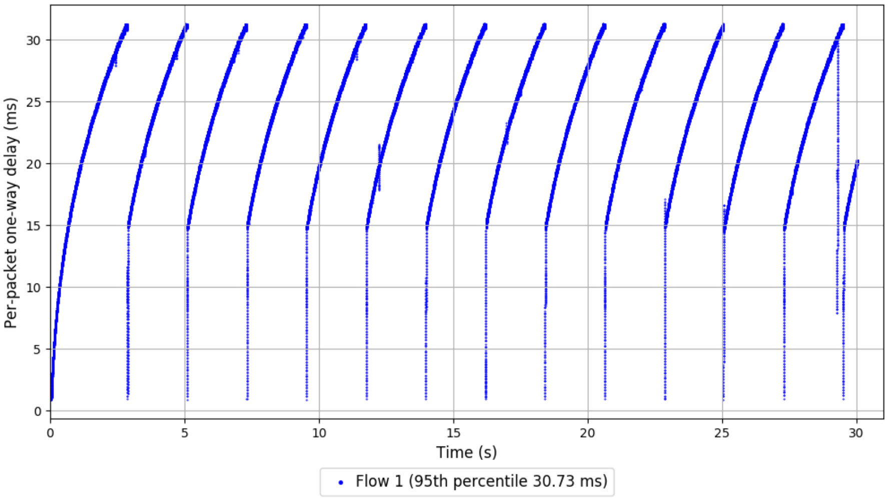




```
Run 4: Statistics of LEDBAT

Start at: 2018-05-30 09:19:20
End at: 2018-05-30 09:19:50
Local clock offset: -2.605 ms
Remote clock offset: -2.209 ms

# Below is generated by plot.py at 2018-05-30 11:37:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.22 Mbit/s
95th percentile per-packet one-way delay: 30.725 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.22 Mbit/s
95th percentile per-packet one-way delay: 30.725 ms
Loss rate: 0.01%
```

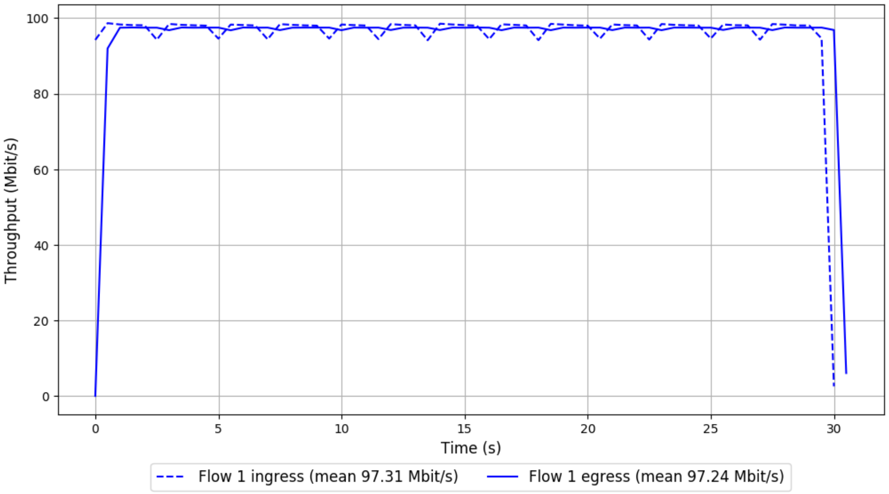
Run 4: Report of LEDBAT — Data Link

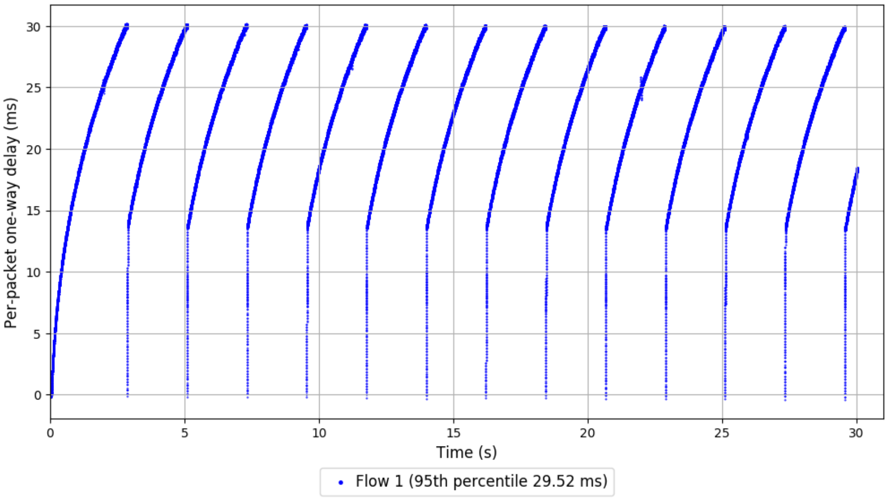




```
Run 5: Statistics of LEDBAT

Start at: 2018-05-30 09:37:20
End at: 2018-05-30 09:37:50
Local clock offset: -2.448 ms
Remote clock offset: -2.078 ms

# Below is generated by plot.py at 2018-05-30 11:38:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.24 Mbit/s
95th percentile per-packet one-way delay: 29.525 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.24 Mbit/s
95th percentile per-packet one-way delay: 29.525 ms
Loss rate: 0.01%
```

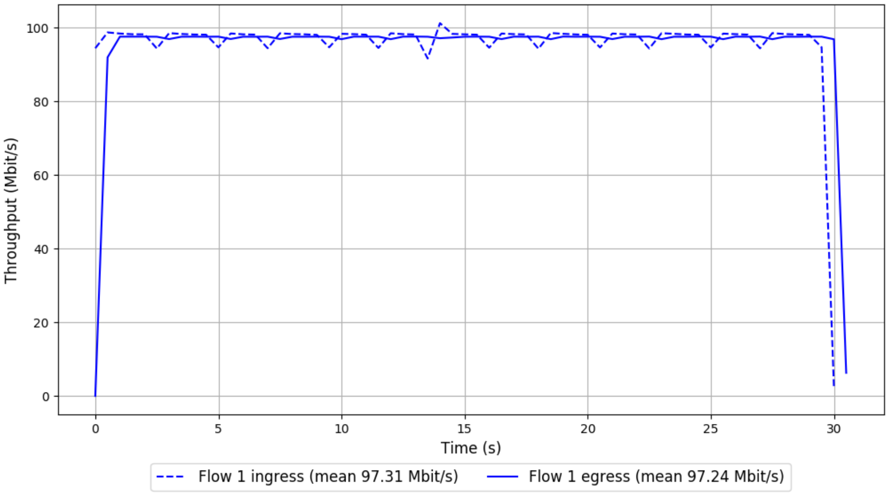
Run 5: Report of LEDBAT — Data Link

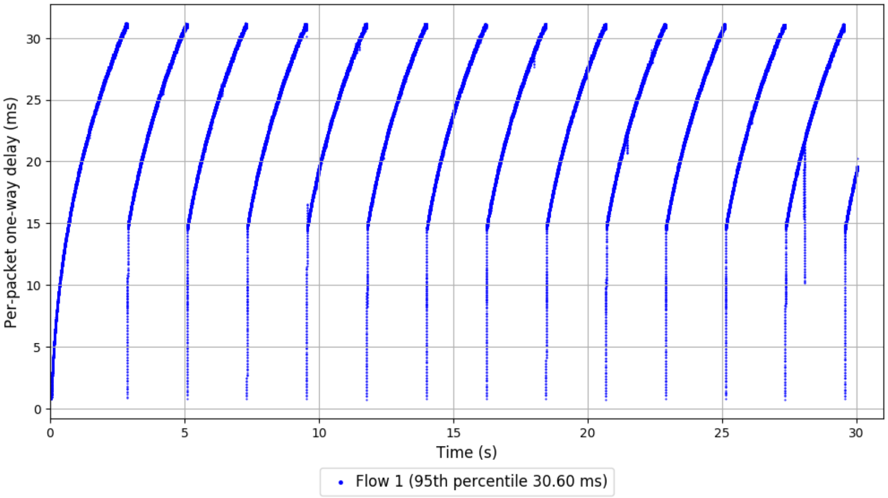




```
Run 6: Statistics of LEDBAT

Start at: 2018-05-30 09:55:13
End at: 2018-05-30 09:55:43
Local clock offset: -7.658 ms
Remote clock offset: -1.918 ms

# Below is generated by plot.py at 2018-05-30 11:38:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.24 Mbit/s
95th percentile per-packet one-way delay: 30.601 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.24 Mbit/s
95th percentile per-packet one-way delay: 30.601 ms
Loss rate: 0.01%
```

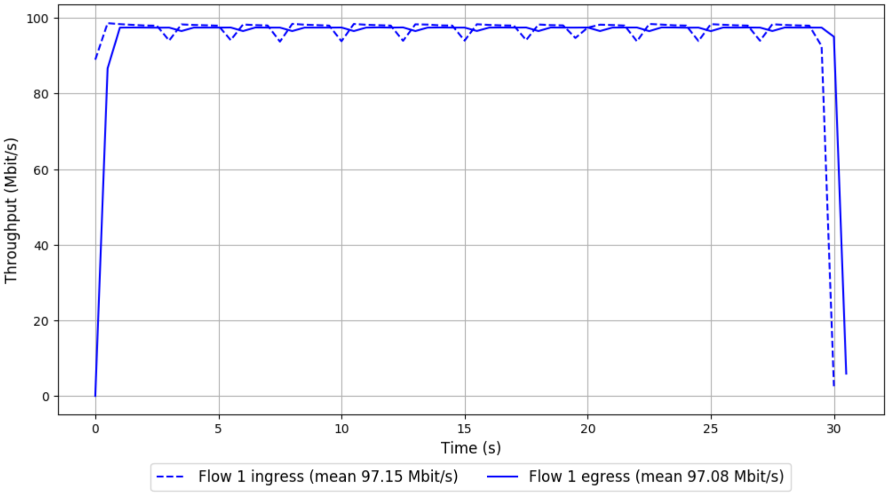
Run 6: Report of LEDBAT — Data Link

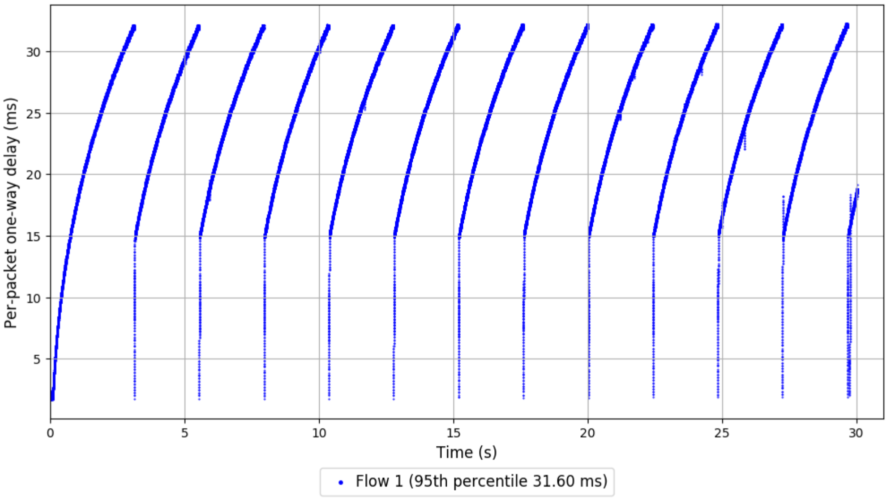




```
Run 7: Statistics of LEDBAT

Start at: 2018-05-30 10:13:07
End at: 2018-05-30 10:13:37
Local clock offset: -4.207 ms
Remote clock offset: -1.822 ms

# Below is generated by plot.py at 2018-05-30 11:38:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.08 Mbit/s
95th percentile per-packet one-way delay: 31.602 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.08 Mbit/s
95th percentile per-packet one-way delay: 31.602 ms
Loss rate: 0.01%
```

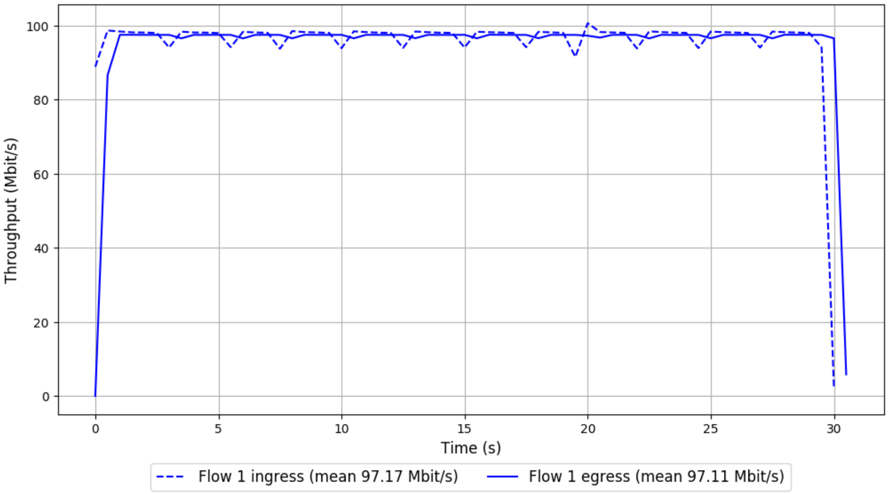
Run 7: Report of LEDBAT — Data Link

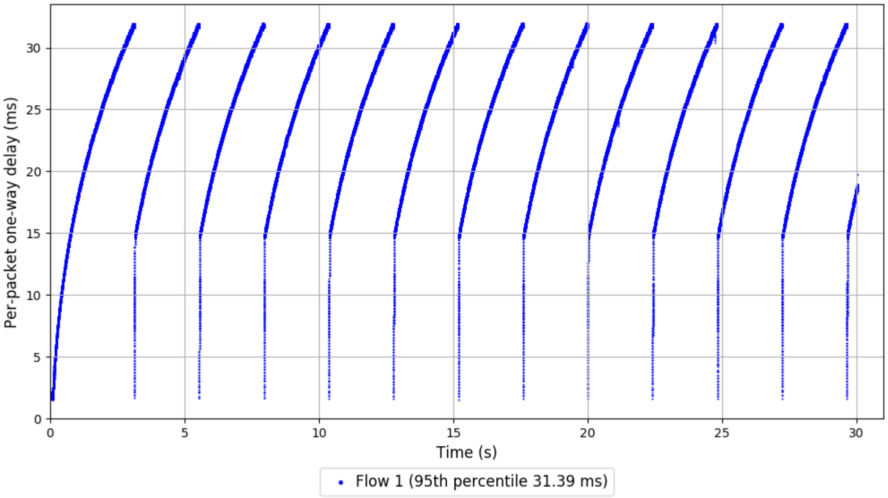




```
Run 8: Statistics of LEDBAT

Start at: 2018-05-30 10:31:07
End at: 2018-05-30 10:31:37
Local clock offset: -1.052 ms
Remote clock offset: -2.034 ms

# Below is generated by plot.py at 2018-05-30 11:38:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.11 Mbit/s
95th percentile per-packet one-way delay: 31.394 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.11 Mbit/s
95th percentile per-packet one-way delay: 31.394 ms
Loss rate: 0.01%
```

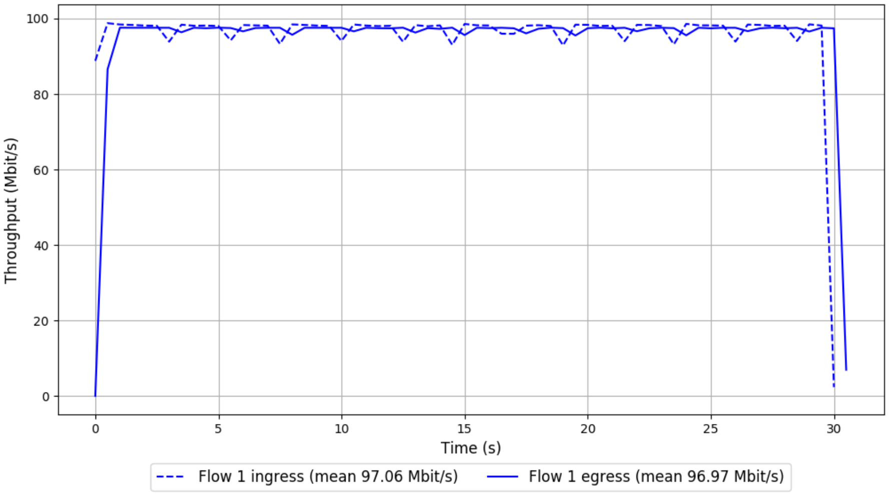
Run 8: Report of LEDBAT — Data Link

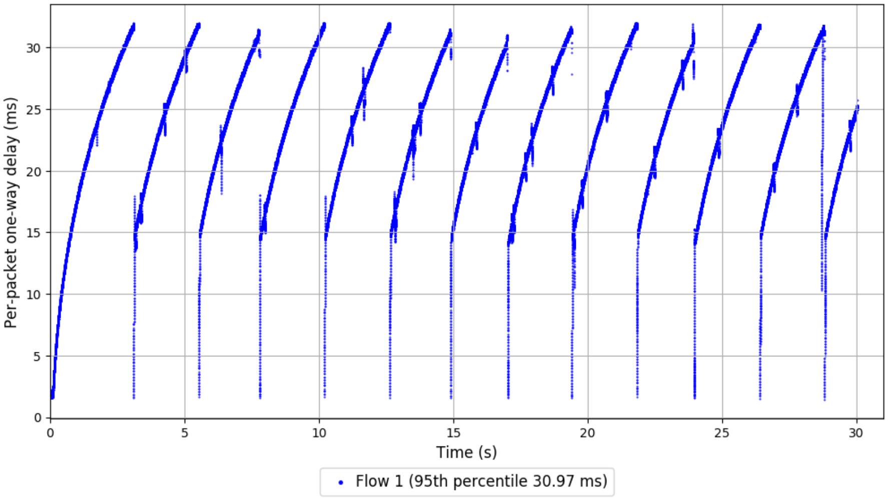




```
Run 9: Statistics of LEDBAT

Start at: 2018-05-30 10:49:01
End at: 2018-05-30 10:49:31
Local clock offset: -0.884 ms
Remote clock offset: -1.971 ms

# Below is generated by plot.py at 2018-05-30 11:38:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.97 Mbit/s
95th percentile per-packet one-way delay: 30.967 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 96.97 Mbit/s
95th percentile per-packet one-way delay: 30.967 ms
Loss rate: 0.02%
```

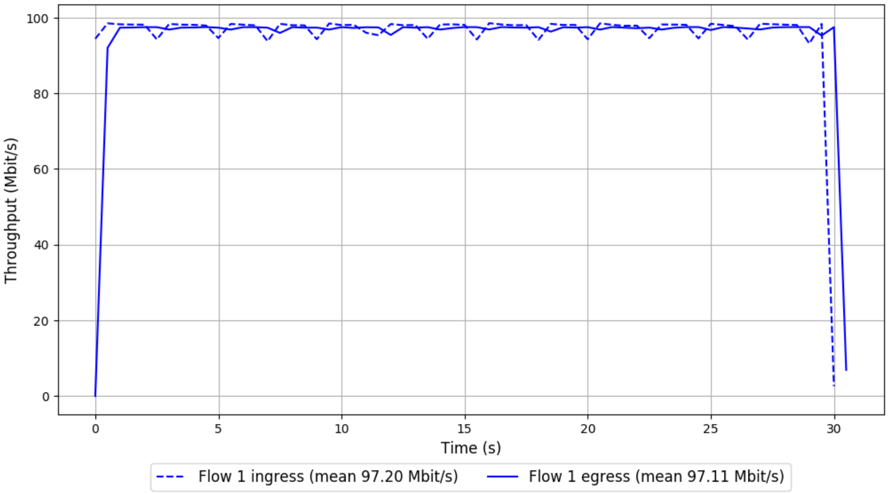
Run 9: Report of LEDBAT — Data Link

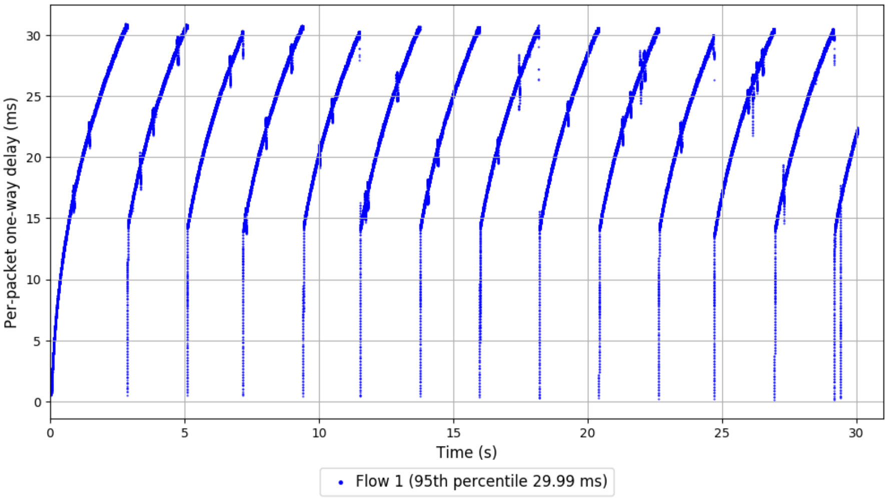




```
Run 10: Statistics of LEDBAT

Start at: 2018-05-30 11:06:55
End at: 2018-05-30 11:07:25
Local clock offset: -1.745 ms
Remote clock offset: 9.96 ms

# Below is generated by plot.py at 2018-05-30 11:38:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.11 Mbit/s
95th percentile per-packet one-way delay: 29.988 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.11 Mbit/s
95th percentile per-packet one-way delay: 29.988 ms
Loss rate: 0.02%
```

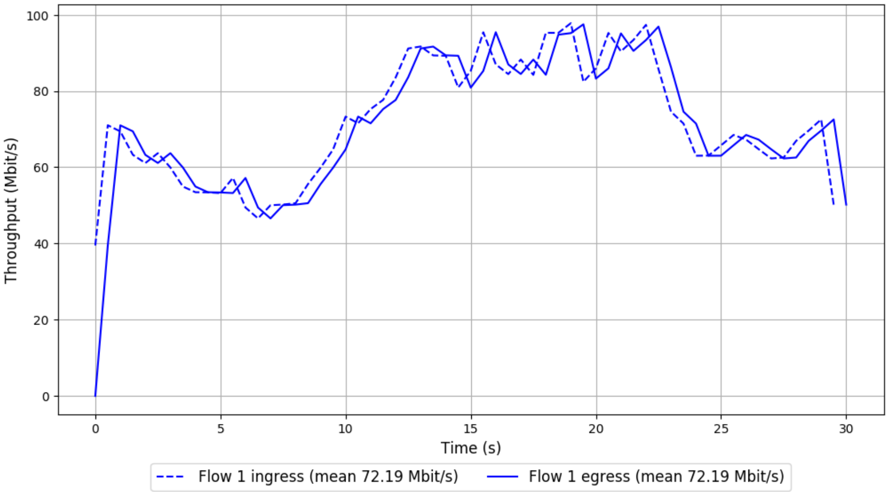
Run 10: Report of LEDBAT — Data Link

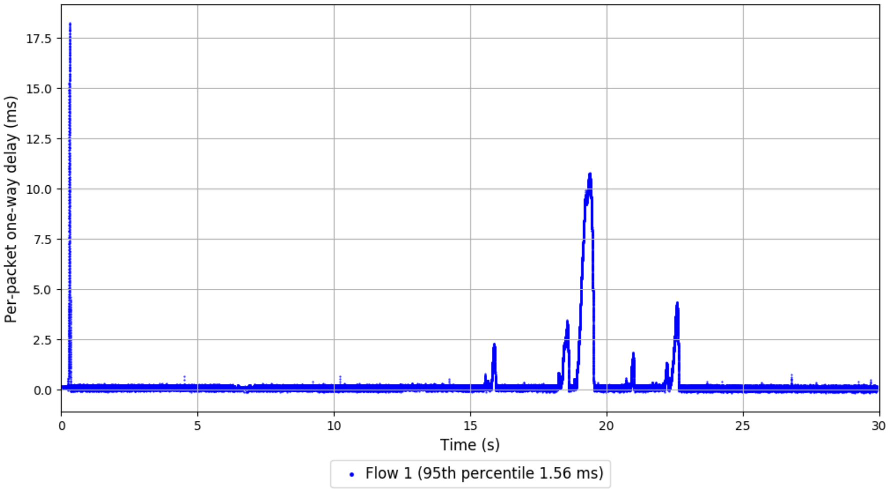




```
Run 1: Statistics of PCC-Allegro

Start at: 2018-05-30 08:34:33
End at: 2018-05-30 08:35:04
Local clock offset: -3.236 ms
Remote clock offset: -3.166 ms

# Below is generated by plot.py at 2018-05-30 11:38:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.19 Mbit/s
95th percentile per-packet one-way delay: 1.557 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 72.19 Mbit/s
95th percentile per-packet one-way delay: 1.557 ms
Loss rate: 0.00%
```

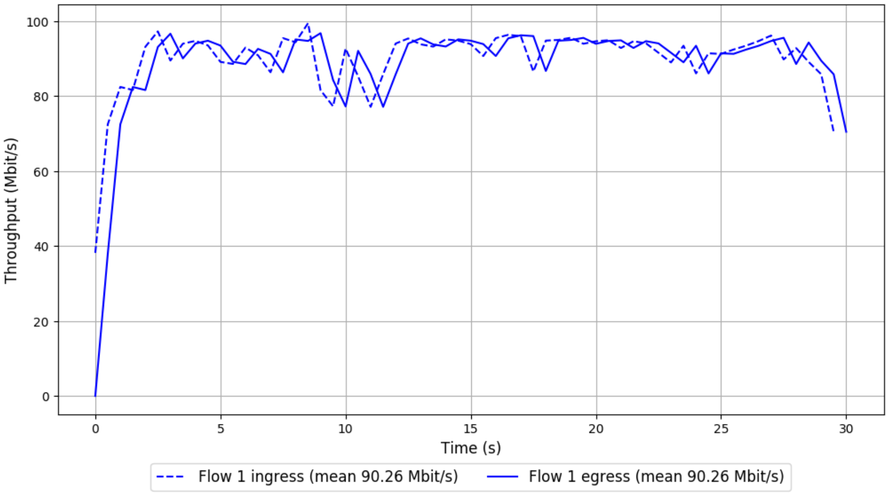
Run 1: Report of PCC-Allegro — Data Link

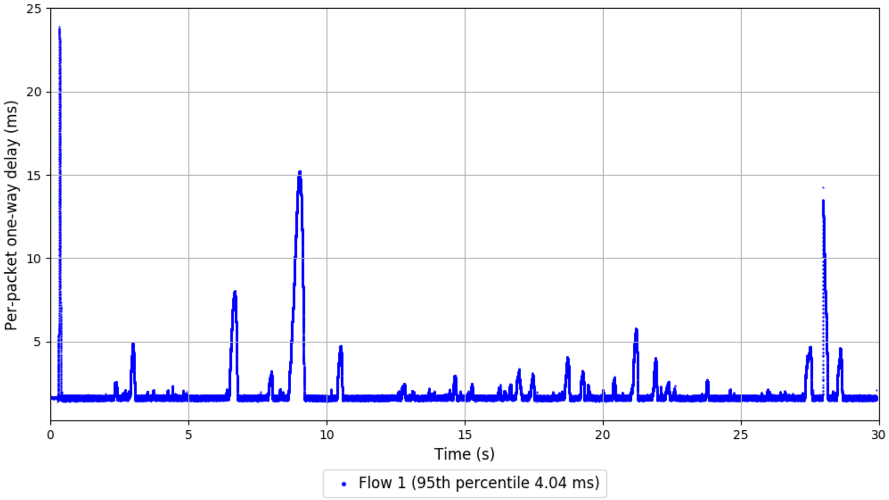




```
Run 2: Statistics of PCC-Allegro

Start at: 2018-05-30 08:52:27
End at: 2018-05-30 08:52:57
Local clock offset: -2.171 ms
Remote clock offset: -2.85 ms

# Below is generated by plot.py at 2018-05-30 11:38:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.26 Mbit/s
95th percentile per-packet one-way delay: 4.035 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 90.26 Mbit/s
95th percentile per-packet one-way delay: 4.035 ms
Loss rate: 0.00%
```

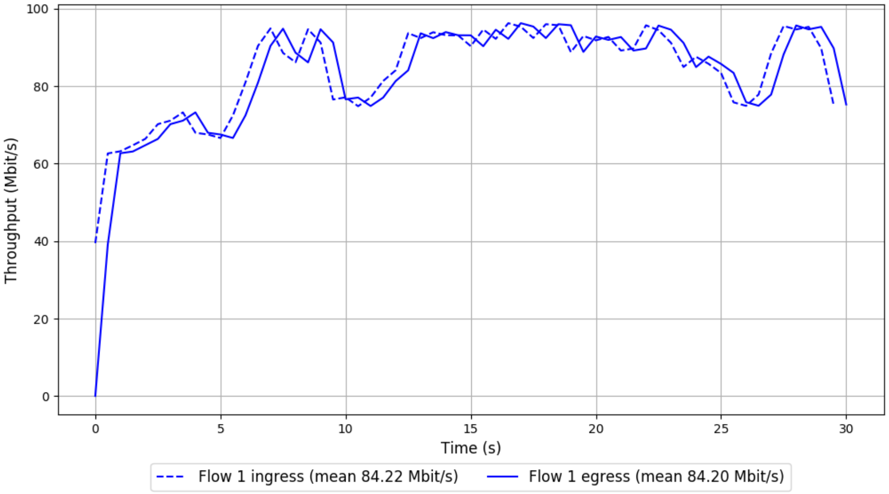
Run 2: Report of PCC-Allegro — Data Link

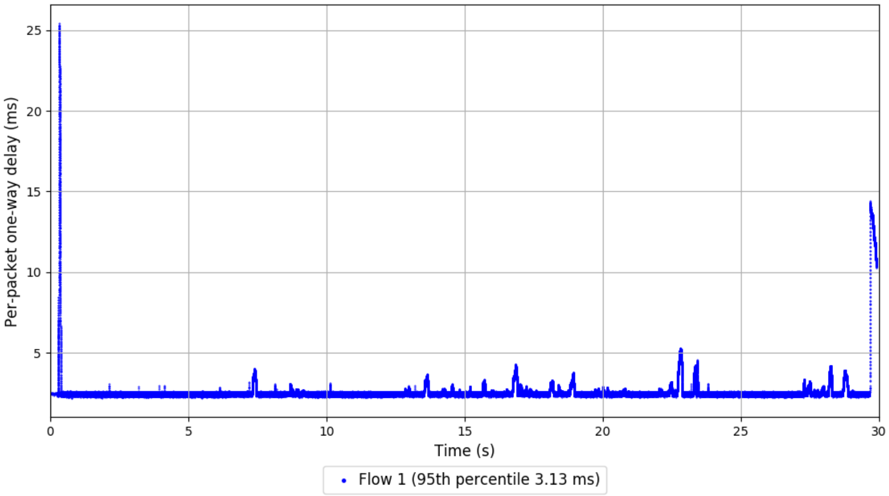




```
Run 3: Statistics of PCC-Allegro

Start at: 2018-05-30 09:10:21
End at: 2018-05-30 09:10:51
Local clock offset: -2.791 ms
Remote clock offset: -2.546 ms

# Below is generated by plot.py at 2018-05-30 11:38:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.20 Mbit/s
95th percentile per-packet one-way delay: 3.133 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.20 Mbit/s
95th percentile per-packet one-way delay: 3.133 ms
Loss rate: 0.00%
```

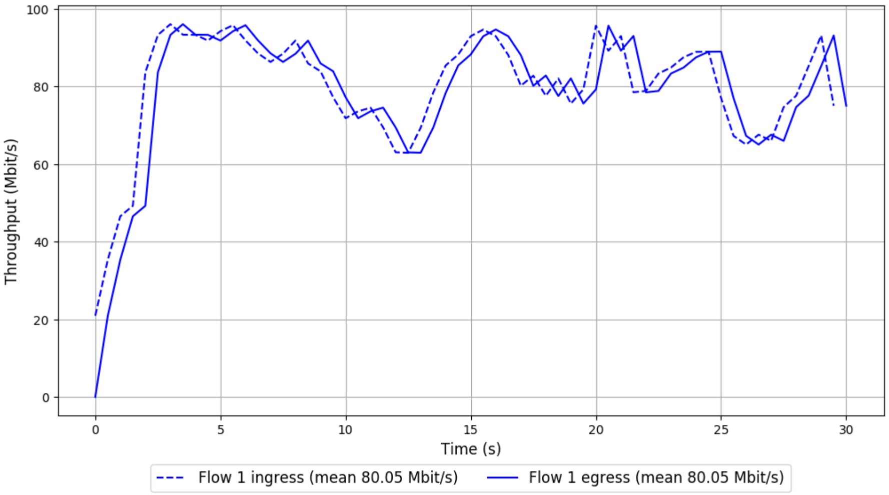
Run 3: Report of PCC-Allegro — Data Link

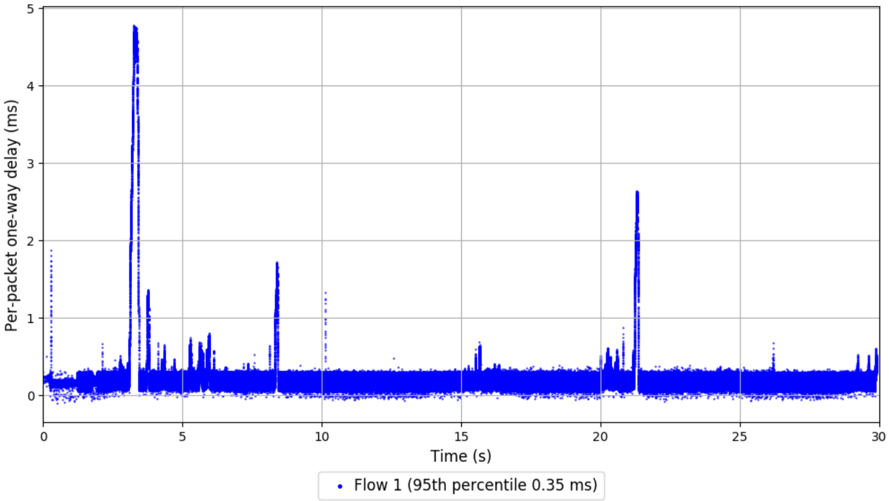




```
Run 4: Statistics of PCC-Allegro

Start at: 2018-05-30 09:28:21
End at: 2018-05-30 09:28:51
Local clock offset: -1.922 ms
Remote clock offset: -2.143 ms

# Below is generated by plot.py at 2018-05-30 11:39:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.05 Mbit/s
95th percentile per-packet one-way delay: 0.352 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 80.05 Mbit/s
95th percentile per-packet one-way delay: 0.352 ms
Loss rate: 0.00%
```

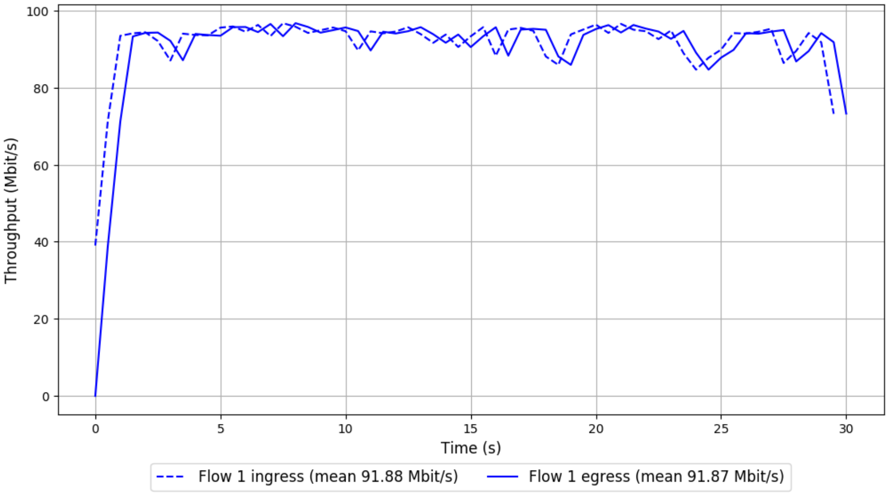
Run 4: Report of PCC-Allegro — Data Link

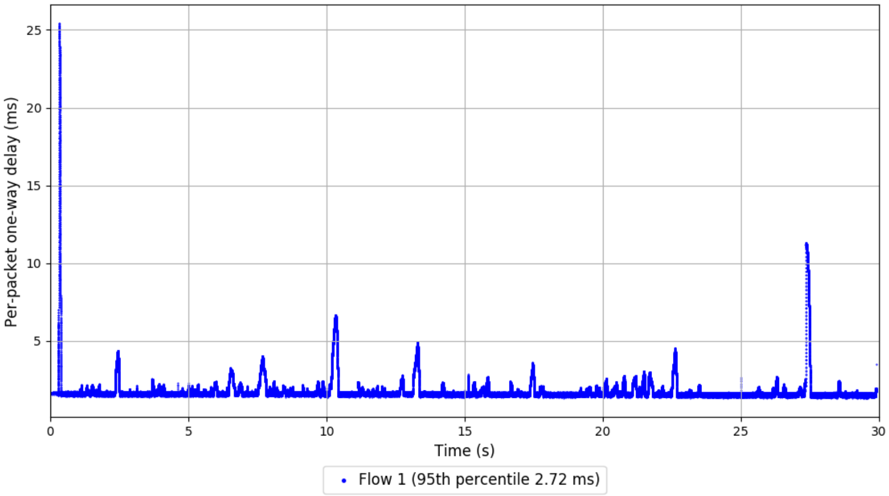




```
Run 5: Statistics of PCC-Allegro

Start at: 2018-05-30 09:46:16
End at: 2018-05-30 09:46:46
Local clock offset: -5.433 ms
Remote clock offset: -1.916 ms

# Below is generated by plot.py at 2018-05-30 11:39:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.87 Mbit/s
95th percentile per-packet one-way delay: 2.719 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 91.87 Mbit/s
95th percentile per-packet one-way delay: 2.719 ms
Loss rate: 0.00%
```

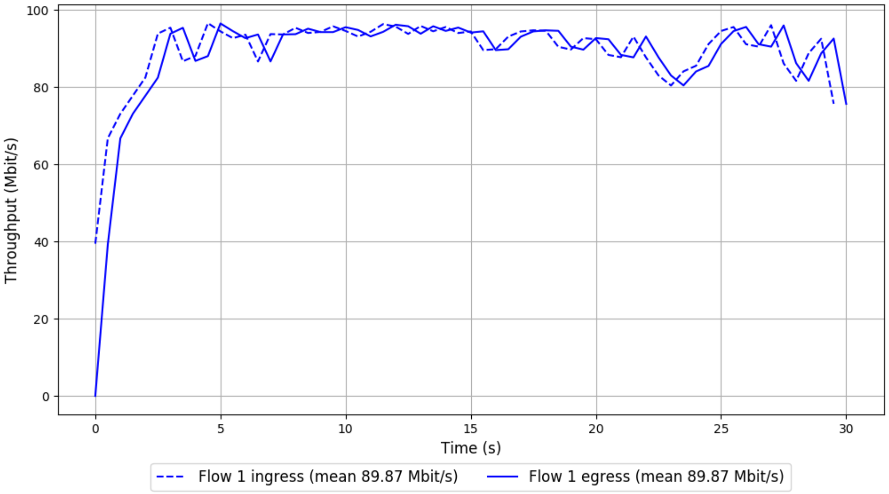
Run 5: Report of PCC-Allegro — Data Link

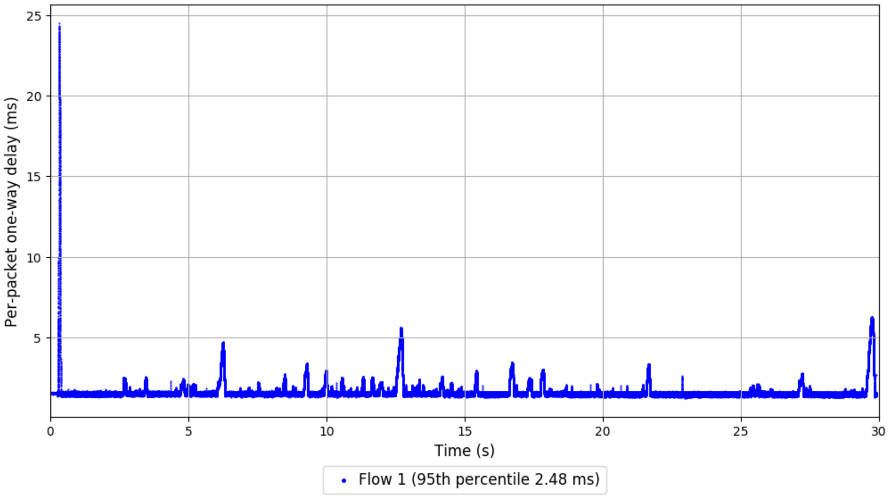




```
Run 6: Statistics of PCC-Allegro

Start at: 2018-05-30 10:04:08
End at: 2018-05-30 10:04:38
Local clock offset: -7.812 ms
Remote clock offset: -1.919 ms

# Below is generated by plot.py at 2018-05-30 11:39:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.87 Mbit/s
95th percentile per-packet one-way delay: 2.475 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.87 Mbit/s
95th percentile per-packet one-way delay: 2.475 ms
Loss rate: 0.00%
```

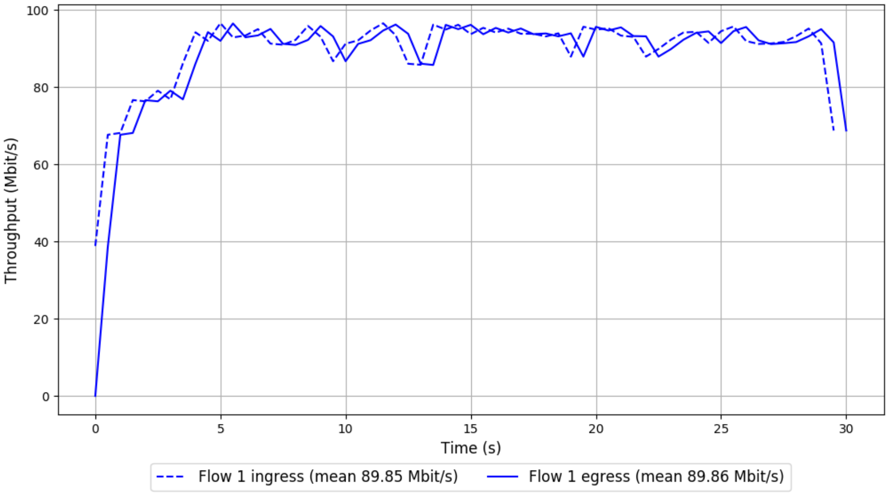
Run 6: Report of PCC-Allegro — Data Link

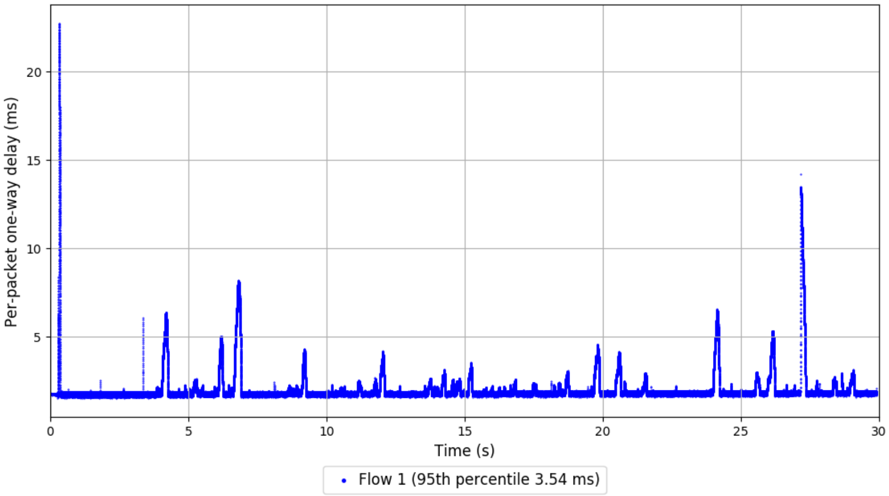




```
Run 7: Statistics of PCC-Allegro

Start at: 2018-05-30 10:22:03
End at: 2018-05-30 10:22:33
Local clock offset: -1.988 ms
Remote clock offset: -1.932 ms

# Below is generated by plot.py at 2018-05-30 11:39:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.86 Mbit/s
95th percentile per-packet one-way delay: 3.537 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.86 Mbit/s
95th percentile per-packet one-way delay: 3.537 ms
Loss rate: 0.00%
```

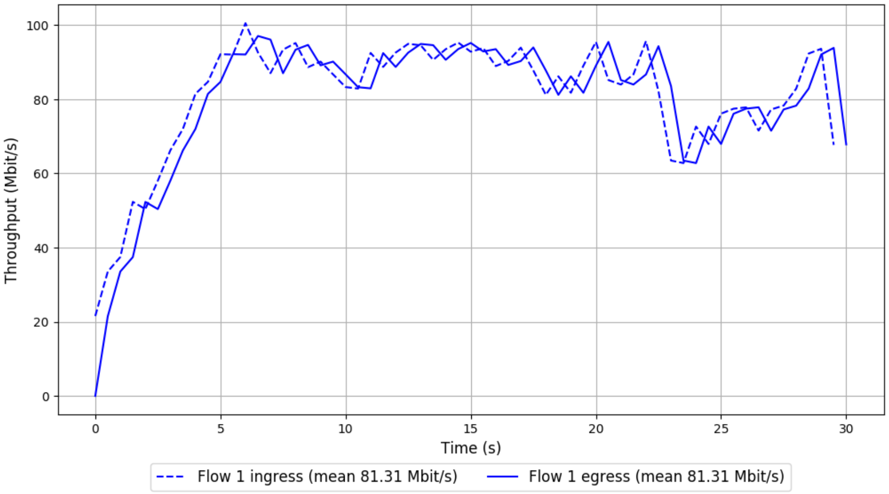
Run 7: Report of PCC-Allegro — Data Link

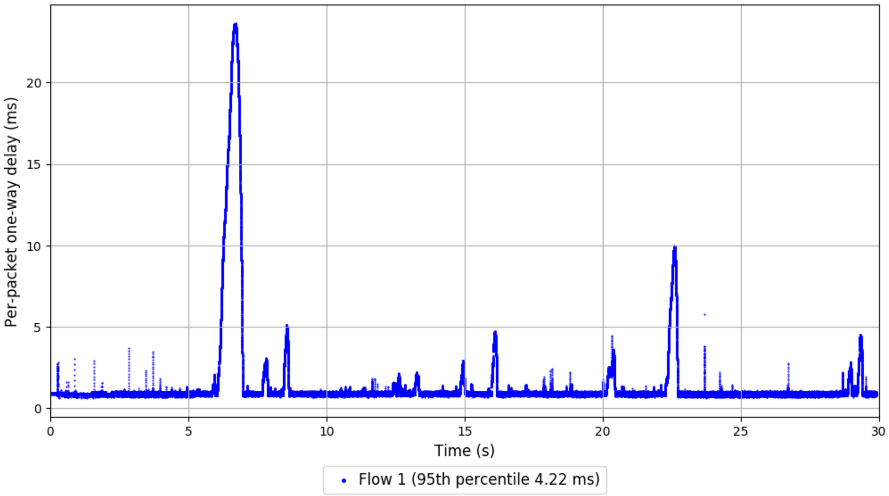




```
Run 8: Statistics of PCC-Allegro

Start at: 2018-05-30 10:40:02
End at: 2018-05-30 10:40:33
Local clock offset: -1.632 ms
Remote clock offset: -2.071 ms

# Below is generated by plot.py at 2018-05-30 11:39:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.31 Mbit/s
95th percentile per-packet one-way delay: 4.224 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 81.31 Mbit/s
95th percentile per-packet one-way delay: 4.224 ms
Loss rate: 0.00%
```

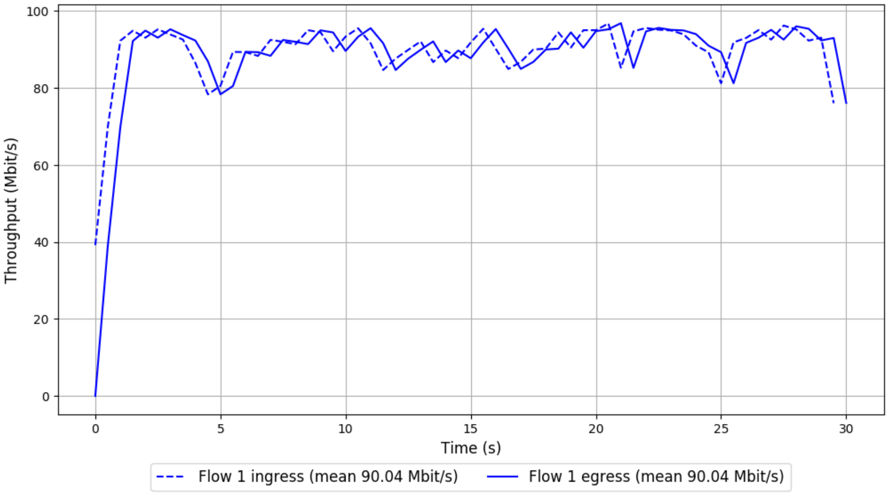
Run 8: Report of PCC-Allegro — Data Link

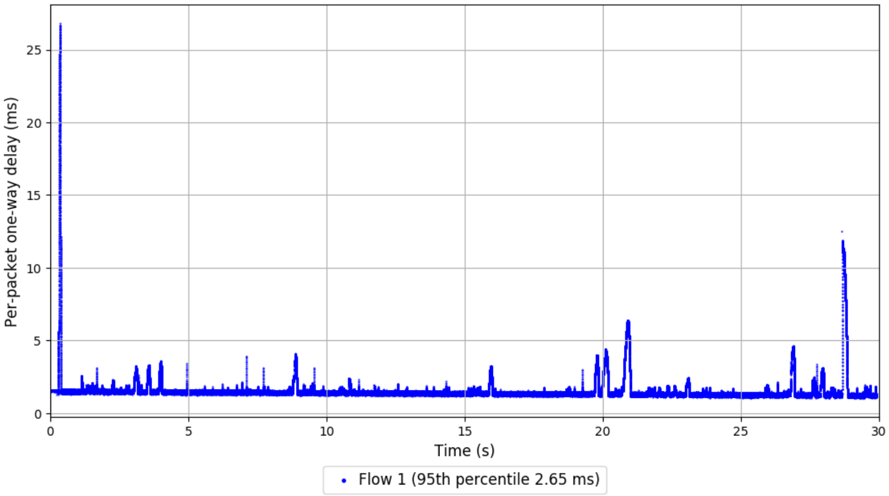




```
Run 9: Statistics of PCC-Allegro

Start at: 2018-05-30 10:57:57
End at: 2018-05-30 10:58:27
Local clock offset: -0.793 ms
Remote clock offset: 5.895 ms

# Below is generated by plot.py at 2018-05-30 11:39:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.04 Mbit/s
95th percentile per-packet one-way delay: 2.646 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 90.04 Mbit/s
95th percentile per-packet one-way delay: 2.646 ms
Loss rate: 0.00%
```

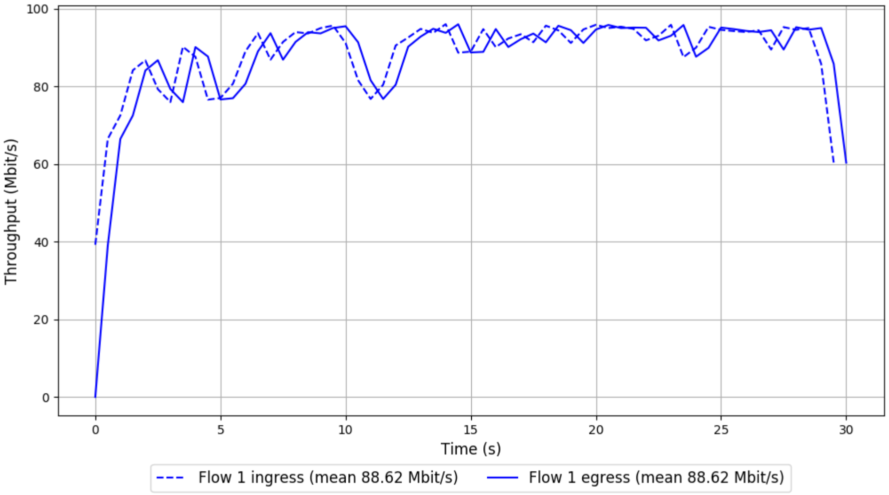
Run 9: Report of PCC-Allegro — Data Link

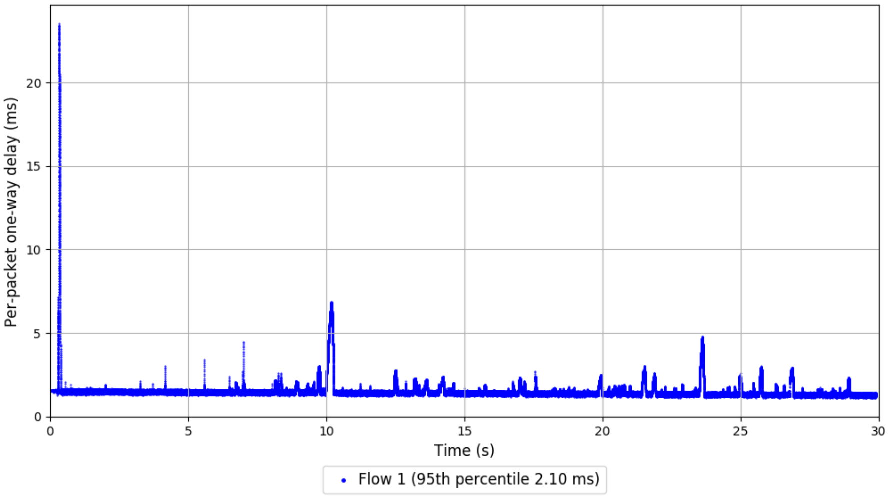




```
Run 10: Statistics of PCC-Allegro

Start at: 2018-05-30 11:15:51
End at: 2018-05-30 11:16:21
Local clock offset: -4.807 ms
Remote clock offset: 12.183 ms

# Below is generated by plot.py at 2018-05-30 11:39:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.62 Mbit/s
95th percentile per-packet one-way delay: 2.096 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 88.62 Mbit/s
95th percentile per-packet one-way delay: 2.096 ms
Loss rate: 0.00%
```

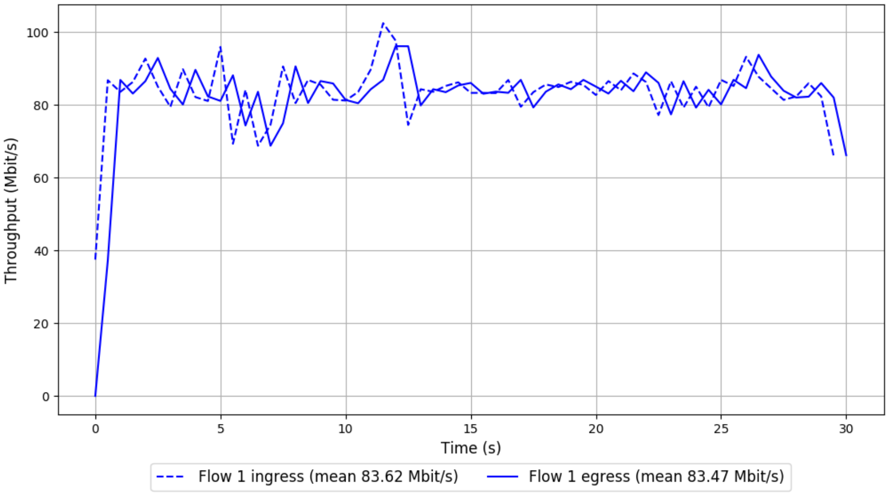
Run 10: Report of PCC-Allegro — Data Link

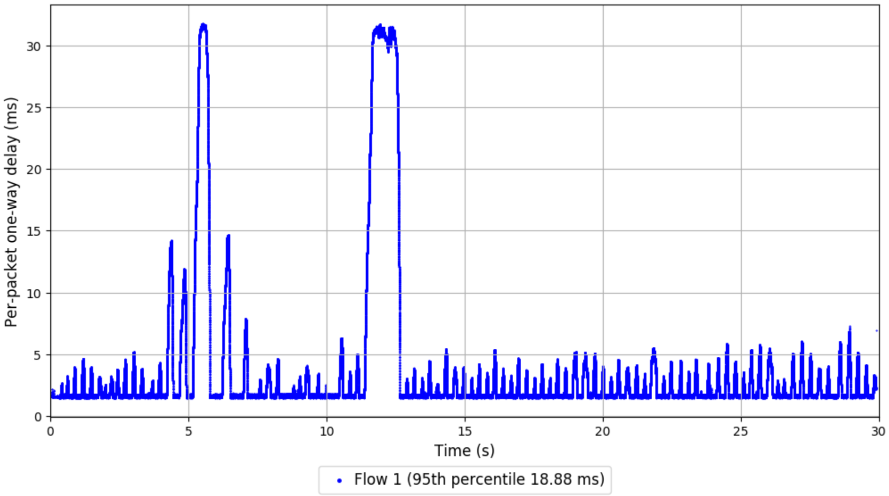




```
Run 1: Statistics of PCC-Expr

Start at: 2018-05-30 08:27:48
End at: 2018-05-30 08:28:18
Local clock offset: -3.03 ms
Remote clock offset: -3.164 ms

# Below is generated by plot.py at 2018-05-30 11:40:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.47 Mbit/s
95th percentile per-packet one-way delay: 18.878 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 83.47 Mbit/s
95th percentile per-packet one-way delay: 18.878 ms
Loss rate: 0.17%
```

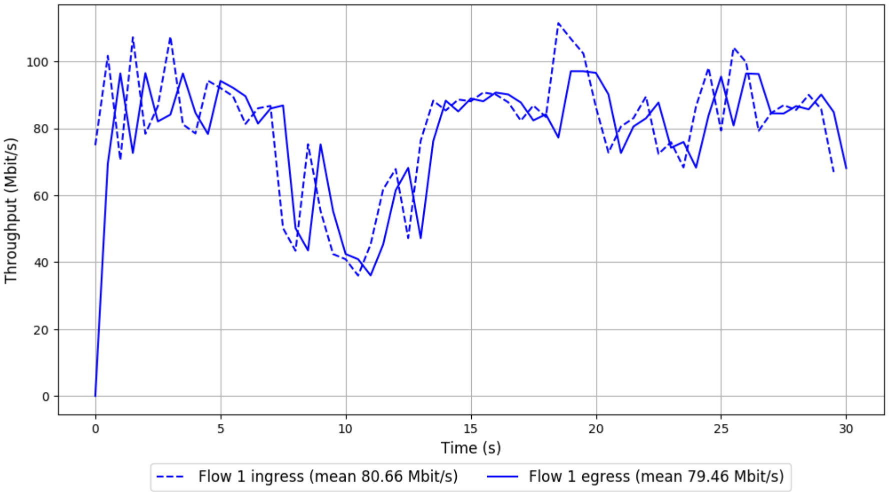
Run 1: Report of PCC-Expr — Data Link

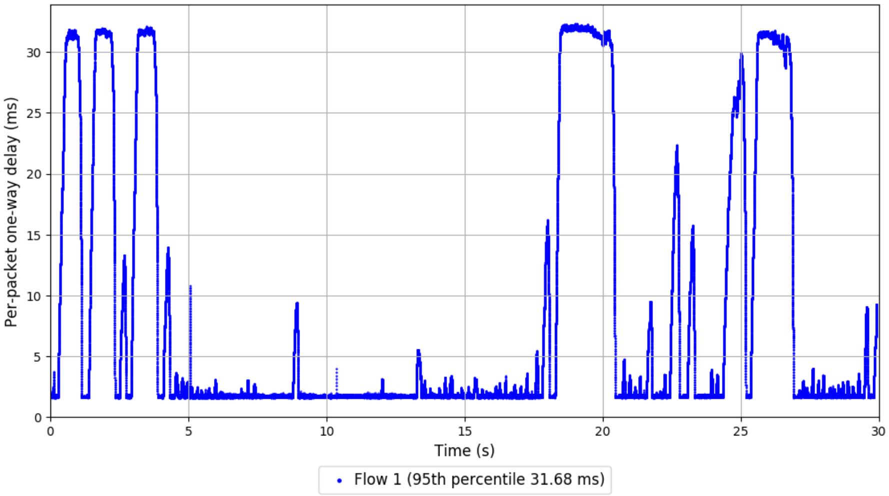




```
Run 2: Statistics of PCC-Expr

Start at: 2018-05-30 08:45:43
End at: 2018-05-30 08:46:13
Local clock offset: -3.818 ms
Remote clock offset: -2.878 ms

# Below is generated by plot.py at 2018-05-30 11:40:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.46 Mbit/s
95th percentile per-packet one-way delay: 31.675 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 79.46 Mbit/s
95th percentile per-packet one-way delay: 31.675 ms
Loss rate: 1.46%
```

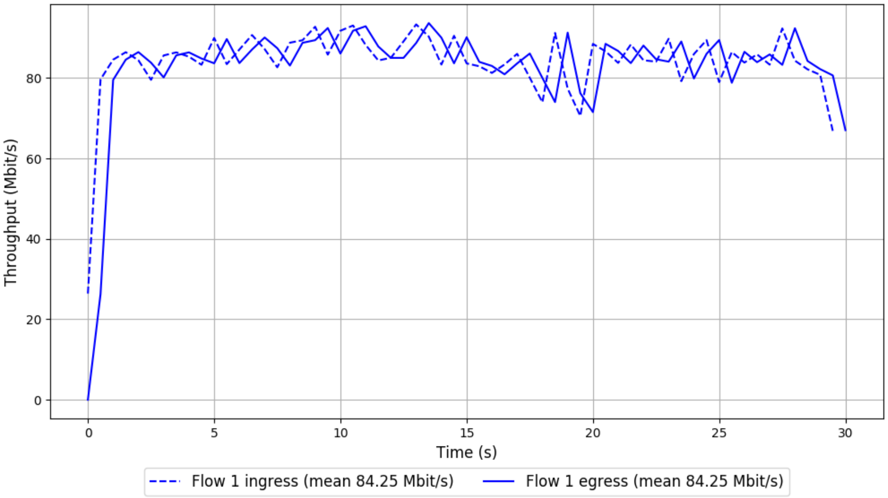
Run 2: Report of PCC-Expr — Data Link

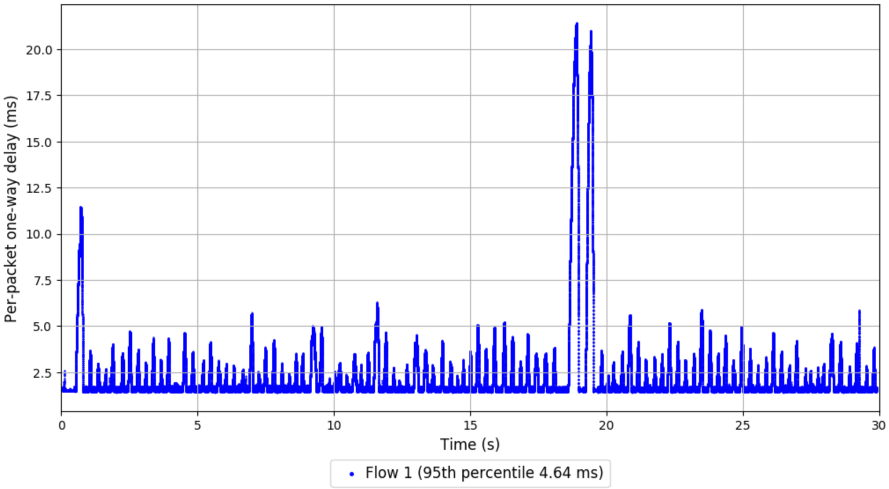




```
Run 3: Statistics of PCC-Expr

Start at: 2018-05-30 09:03:37
End at: 2018-05-30 09:04:07
Local clock offset: -2.199 ms
Remote clock offset: -2.831 ms

# Below is generated by plot.py at 2018-05-30 11:41:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.25 Mbit/s
95th percentile per-packet one-way delay: 4.636 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.25 Mbit/s
95th percentile per-packet one-way delay: 4.636 ms
Loss rate: 0.00%
```

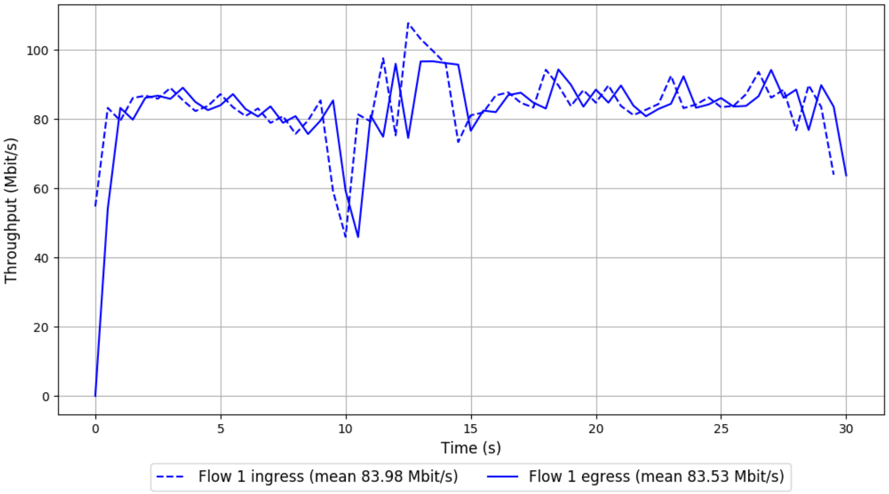
Run 3: Report of PCC-Expr — Data Link

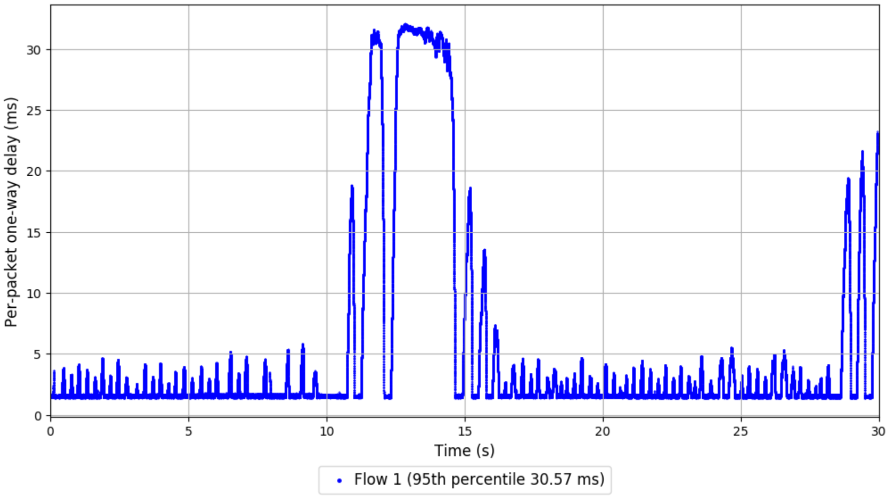




```
Run 4: Statistics of PCC-Expr

Start at: 2018-05-30 09:21:32
End at: 2018-05-30 09:22:02
Local clock offset: -1.823 ms
Remote clock offset: -2.297 ms

# Below is generated by plot.py at 2018-05-30 11:41:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.53 Mbit/s
95th percentile per-packet one-way delay: 30.571 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 83.53 Mbit/s
95th percentile per-packet one-way delay: 30.571 ms
Loss rate: 0.47%
```

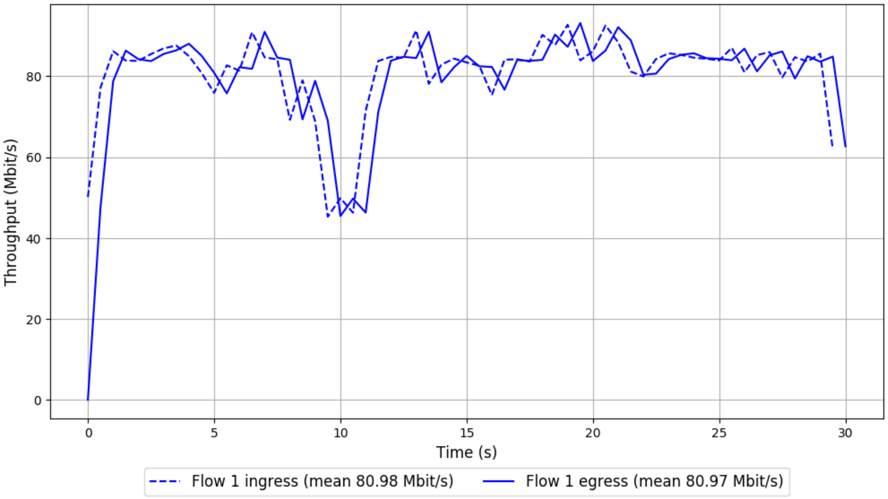
Run 4: Report of PCC-Expr — Data Link

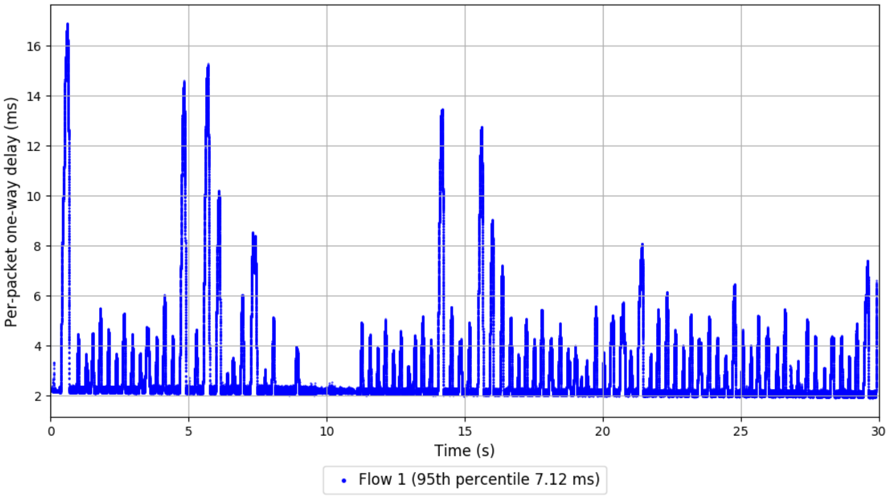




```
Run 5: Statistics of PCC-Expr

Start at: 2018-05-30 09:39:32
End at: 2018-05-30 09:40:02
Local clock offset: -4.148 ms
Remote clock offset: -1.981 ms

# Below is generated by plot.py at 2018-05-30 11:41:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.97 Mbit/s
95th percentile per-packet one-way delay: 7.120 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 80.97 Mbit/s
95th percentile per-packet one-way delay: 7.120 ms
Loss rate: 0.01%
```

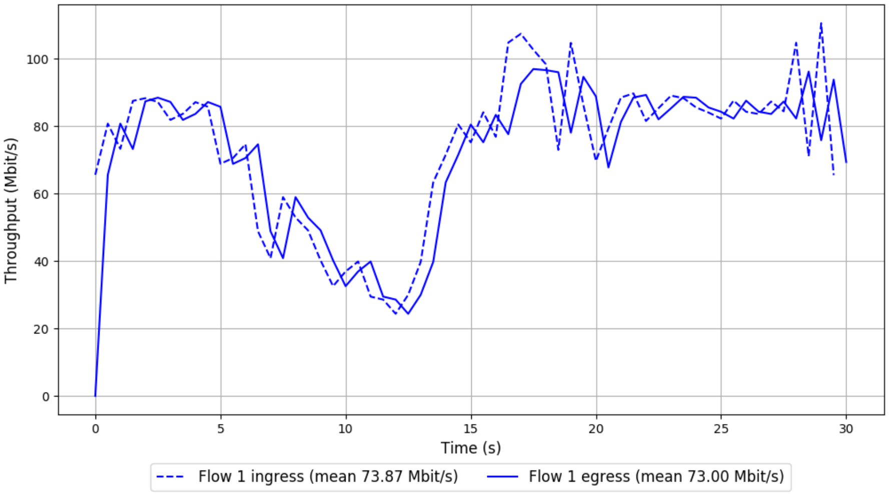
Run 5: Report of PCC-Expr — Data Link

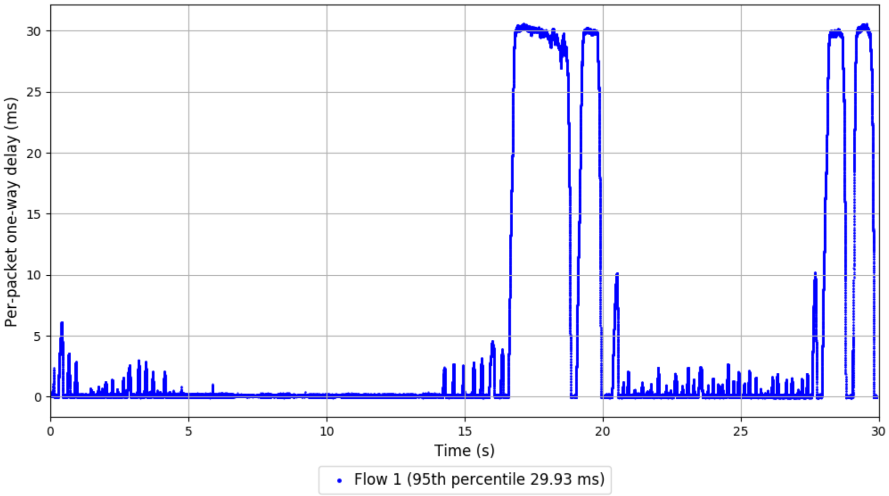




```
Run 6: Statistics of PCC-Expr

Start at: 2018-05-30 09:57:25
End at: 2018-05-30 09:57:55
Local clock offset: -7.131 ms
Remote clock offset: -1.938 ms

# Below is generated by plot.py at 2018-05-30 11:41:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.00 Mbit/s
95th percentile per-packet one-way delay: 29.926 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 73.00 Mbit/s
95th percentile per-packet one-way delay: 29.926 ms
Loss rate: 1.18%
```

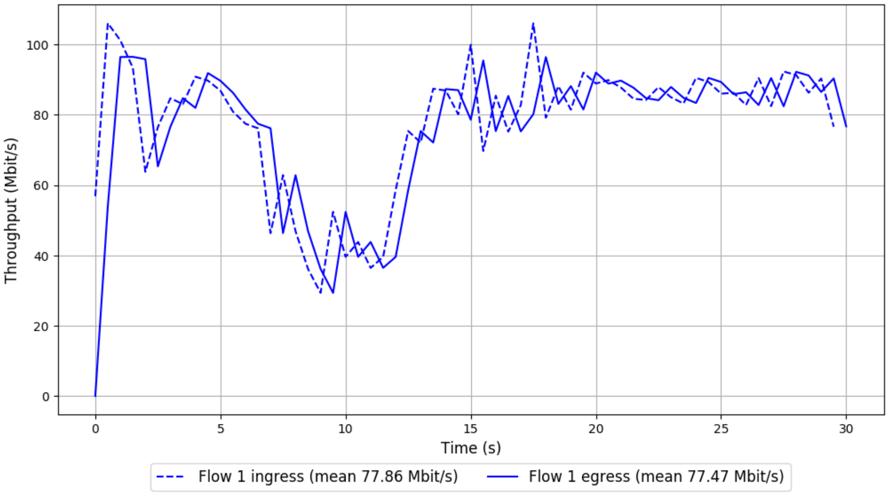
Run 6: Report of PCC-Expr — Data Link

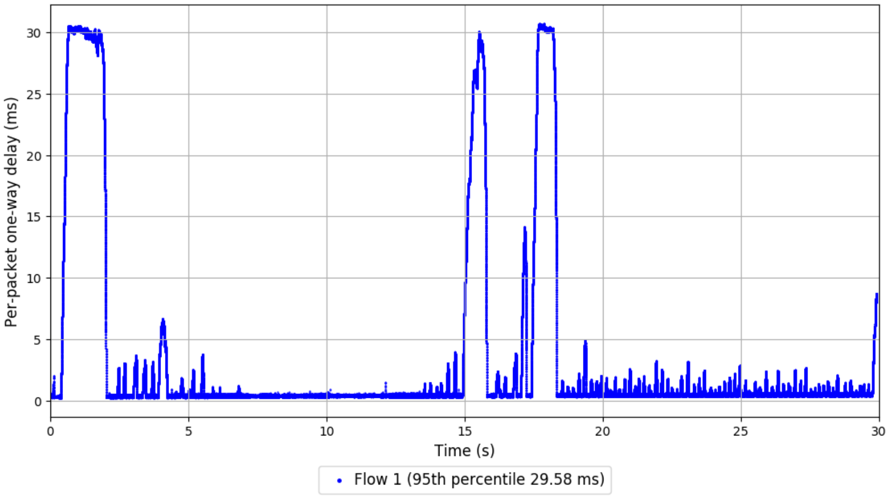




```
Run 7: Statistics of PCC-Expr

Start at: 2018-05-30 10:15:19
End at: 2018-05-30 10:15:49
Local clock offset: -3.49 ms
Remote clock offset: -1.813 ms

# Below is generated by plot.py at 2018-05-30 11:41:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.47 Mbit/s
95th percentile per-packet one-way delay: 29.576 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 77.47 Mbit/s
95th percentile per-packet one-way delay: 29.576 ms
Loss rate: 0.47%
```

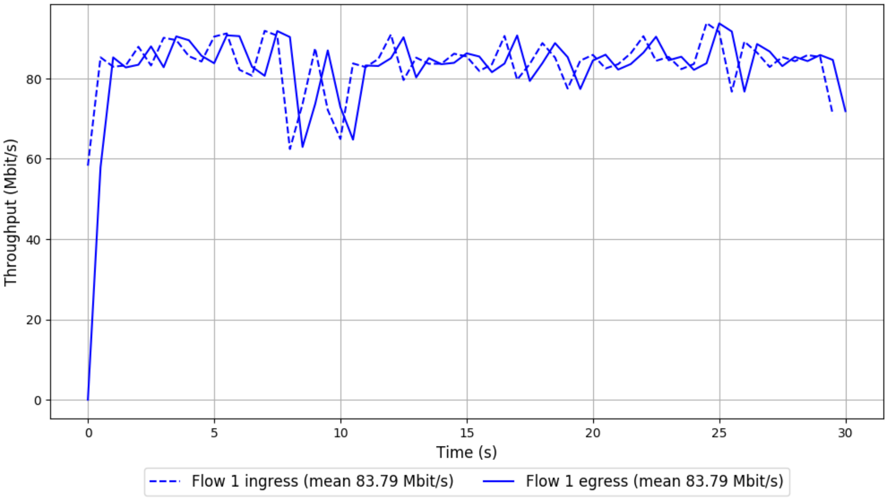
Run 7: Report of PCC-Expr — Data Link

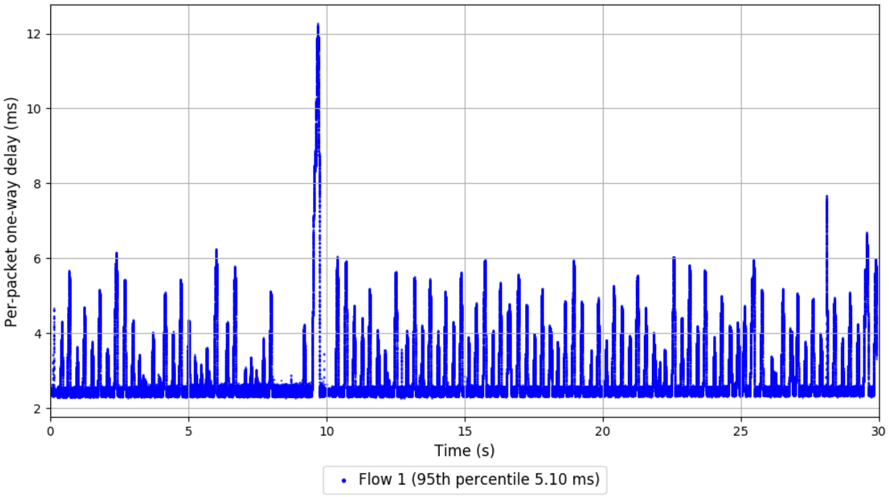




```
Run 8: Statistics of PCC-Expr

Start at: 2018-05-30 10:33:18
End at: 2018-05-30 10:33:49
Local clock offset: -1.691 ms
Remote clock offset: -2.035 ms

# Below is generated by plot.py at 2018-05-30 11:41:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.79 Mbit/s
95th percentile per-packet one-way delay: 5.099 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 83.79 Mbit/s
95th percentile per-packet one-way delay: 5.099 ms
Loss rate: 0.00%
```

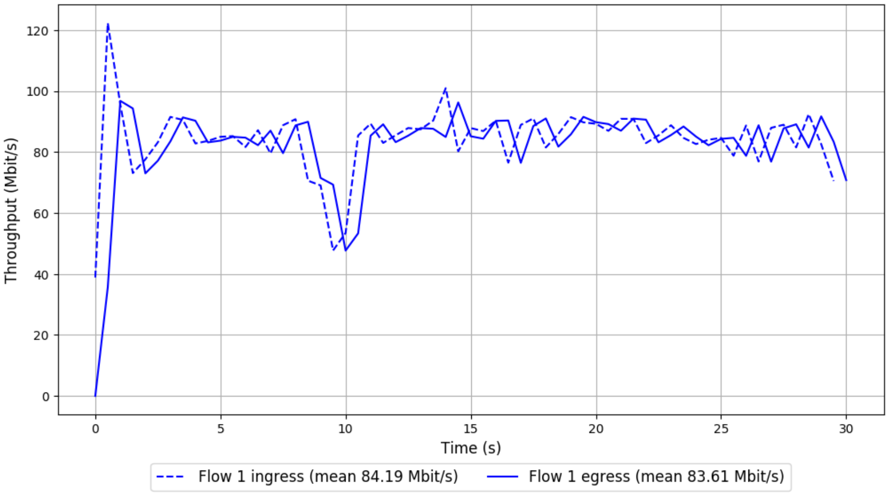
Run 8: Report of PCC-Expr — Data Link

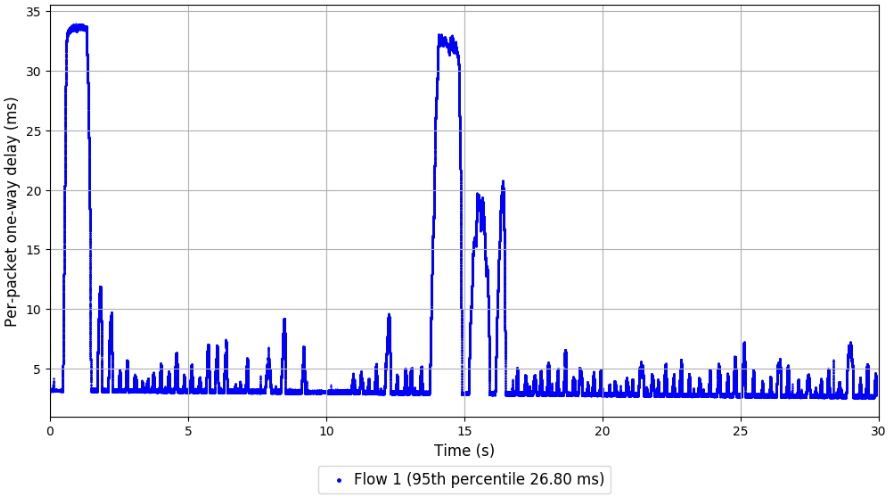




```
Run 9: Statistics of PCC-Expr

Start at: 2018-05-30 10:51:13
End at: 2018-05-30 10:51:43
Local clock offset: -2.467 ms
Remote clock offset: 0.28 ms

# Below is generated by plot.py at 2018-05-30 11:42:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.61 Mbit/s
95th percentile per-packet one-way delay: 26.798 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 83.61 Mbit/s
95th percentile per-packet one-way delay: 26.798 ms
Loss rate: 0.70%
```

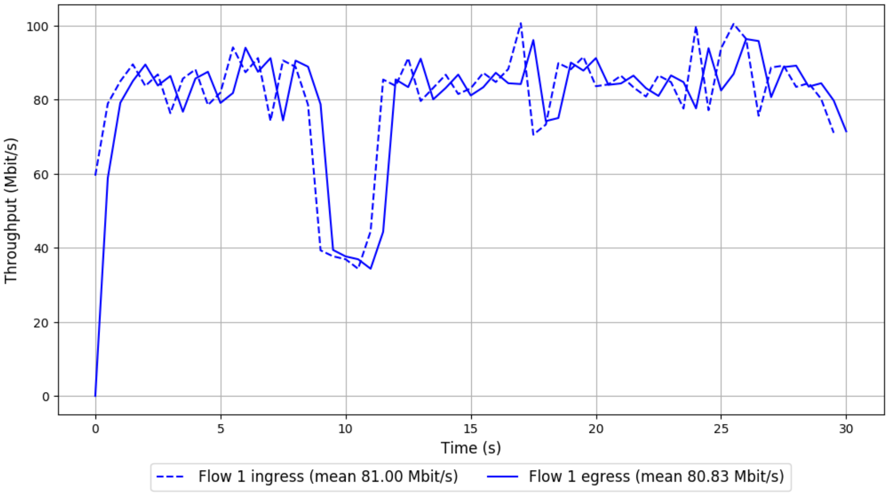
Run 9: Report of PCC-Expr — Data Link

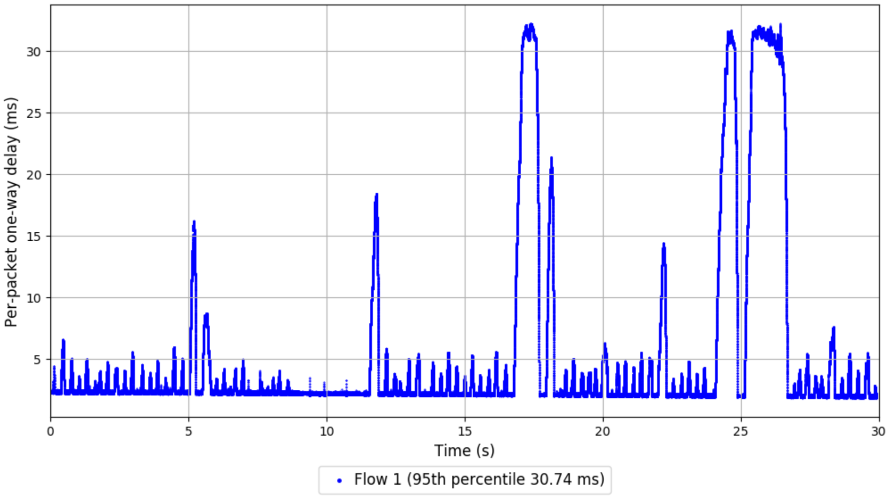




```
Run 10: Statistics of PCC-Expr

Start at: 2018-05-30 11:09:07
End at: 2018-05-30 11:09:37
Local clock offset: -3.175 ms
Remote clock offset: 10.569 ms

# Below is generated by plot.py at 2018-05-30 11:42:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.83 Mbit/s
95th percentile per-packet one-way delay: 30.737 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 80.83 Mbit/s
95th percentile per-packet one-way delay: 30.737 ms
Loss rate: 0.22%
```

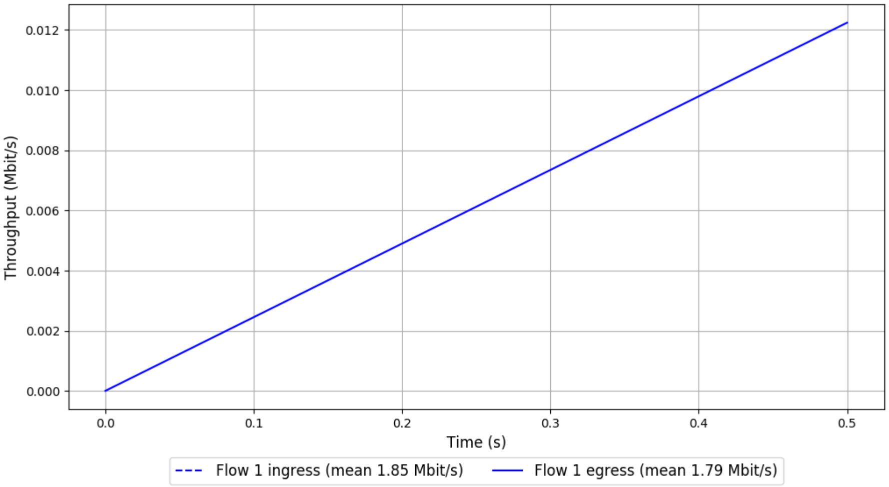
Run 10: Report of PCC-Expr — Data Link

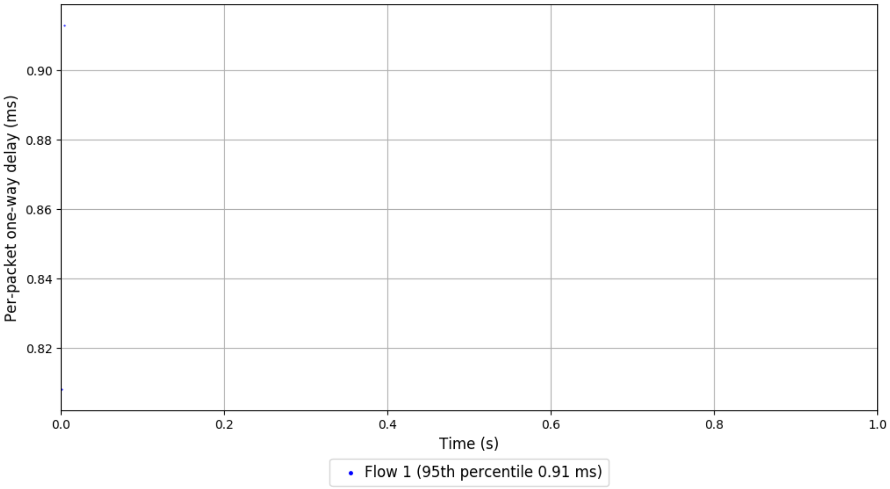




```
Run 1: Statistics of QUIC Cubic

Start at: 2018-05-30 08:33:30
End at: 2018-05-30 08:34:00
Local clock offset: -3.973 ms
Remote clock offset: -3.164 ms
```

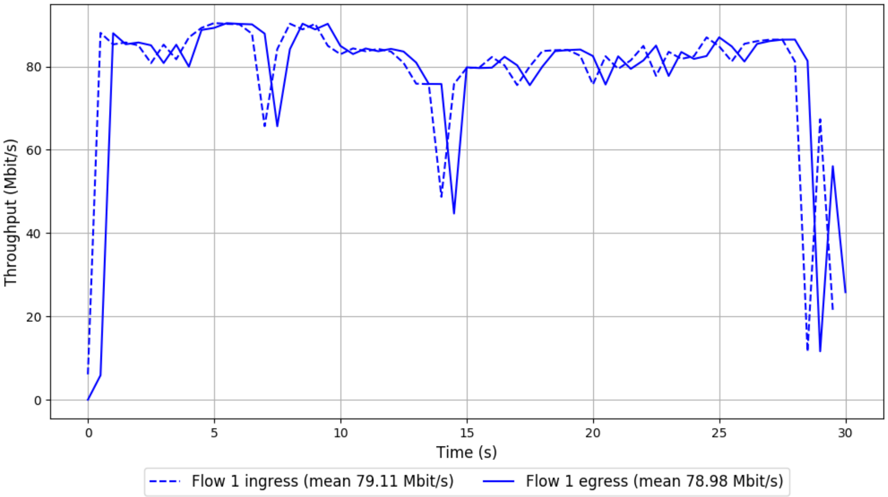
Run 1: Report of QUIC Cubic — Data Link

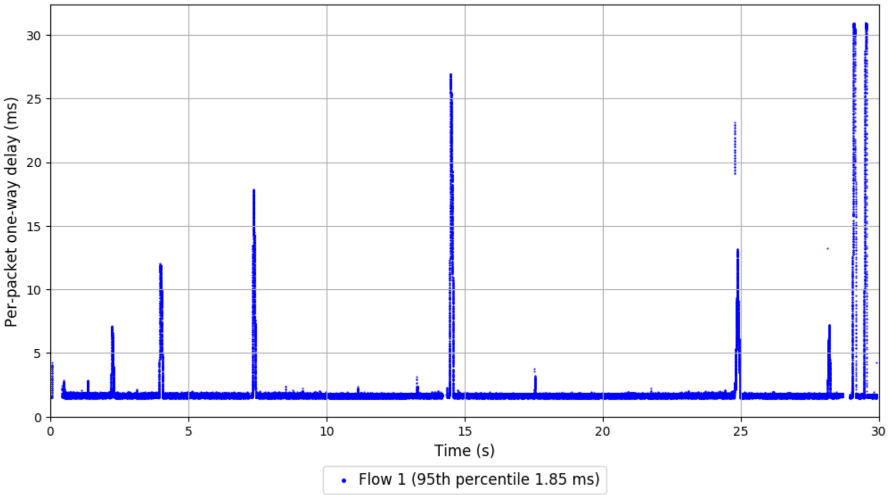




```
Run 2: Statistics of QUIC Cubic

Start at: 2018-05-30 08:51:20
End at: 2018-05-30 08:51:50
Local clock offset: -2.132 ms
Remote clock offset: -2.82 ms

# Below is generated by plot.py at 2018-05-30 11:42:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.98 Mbit/s
95th percentile per-packet one-way delay: 1.852 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 78.98 Mbit/s
95th percentile per-packet one-way delay: 1.852 ms
Loss rate: 0.15%
```

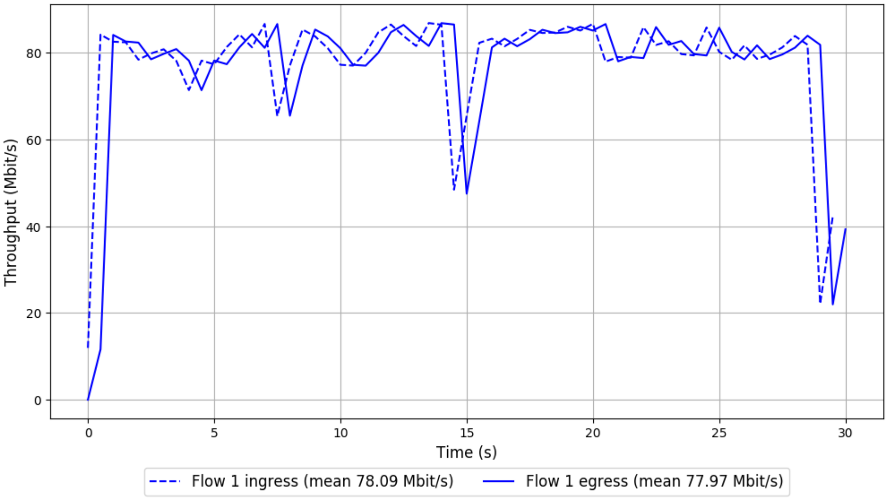
Run 2: Report of QUIC Cubic — Data Link

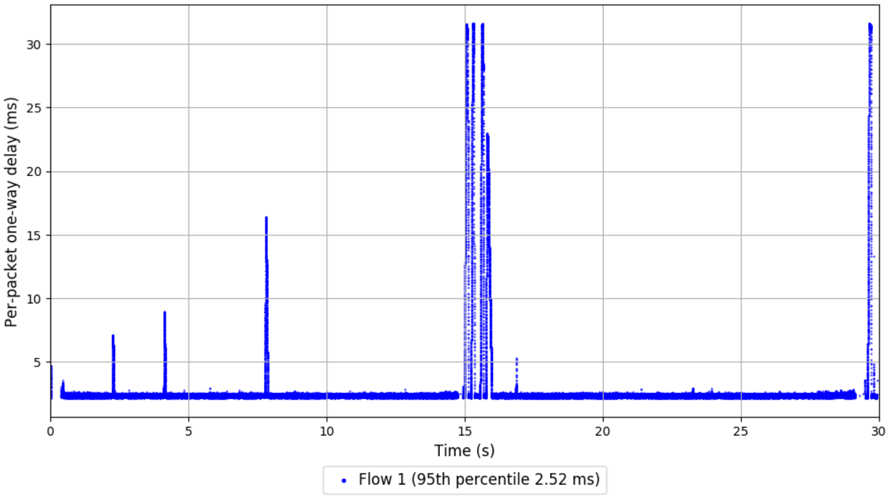




```
Run 3: Statistics of QUIC Cubic

Start at: 2018-05-30 09:09:14
End at: 2018-05-30 09:09:44
Local clock offset: -2.838 ms
Remote clock offset: -2.721 ms

# Below is generated by plot.py at 2018-05-30 11:42:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.97 Mbit/s
95th percentile per-packet one-way delay: 2.521 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 77.97 Mbit/s
95th percentile per-packet one-way delay: 2.521 ms
Loss rate: 0.15%
```

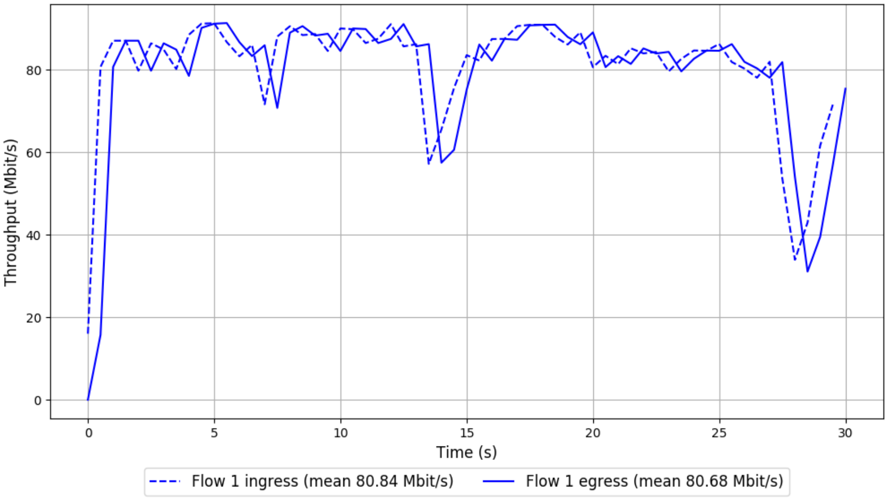
Run 3: Report of QUIC Cubic — Data Link

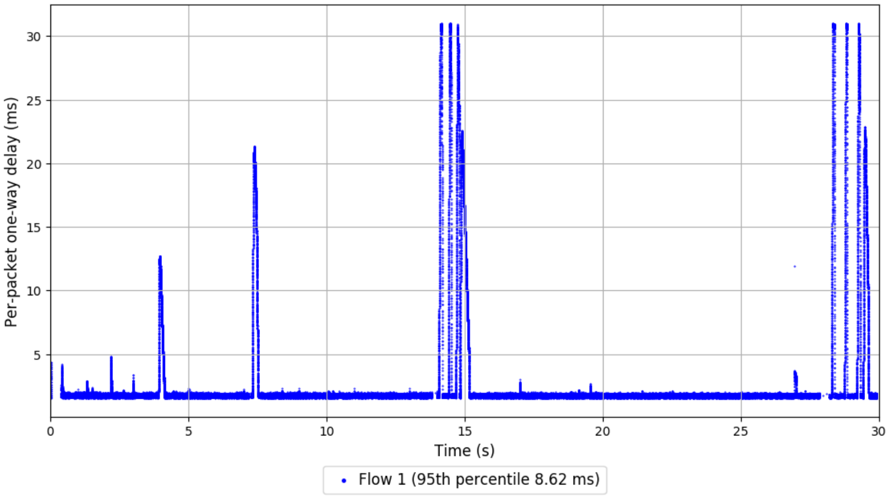




```
Run 4: Statistics of QUIC Cubic

Start at: 2018-05-30 09:27:14
End at: 2018-05-30 09:27:44
Local clock offset: -3.468 ms
Remote clock offset: -2.164 ms

# Below is generated by plot.py at 2018-05-30 11:42:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.68 Mbit/s
95th percentile per-packet one-way delay: 8.617 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 80.68 Mbit/s
95th percentile per-packet one-way delay: 8.617 ms
Loss rate: 0.20%
```

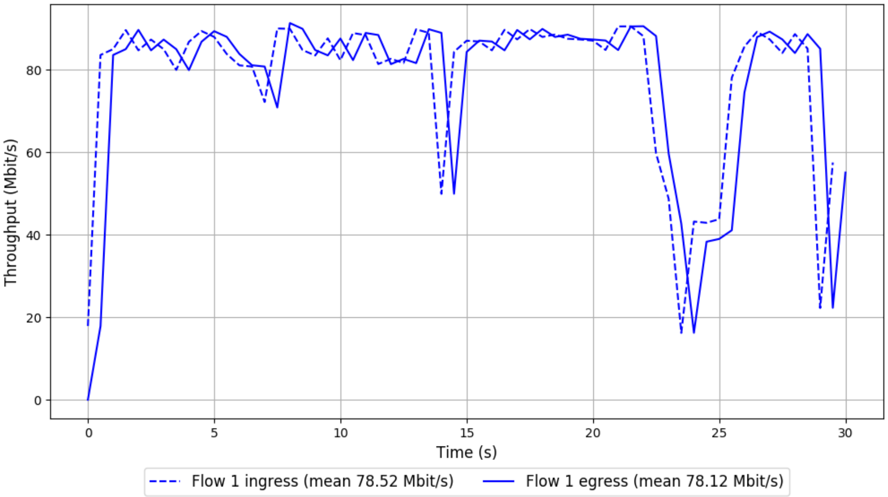
Run 4: Report of QUIC Cubic — Data Link

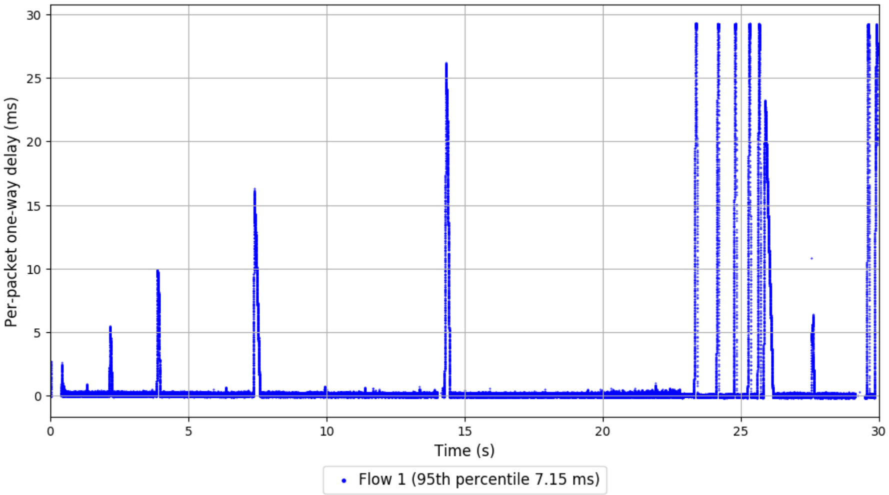




```
Run 5: Statistics of QUIC Cubic

Start at: 2018-05-30 09:45:09
End at: 2018-05-30 09:45:39
Local clock offset: -5.155 ms
Remote clock offset: -1.957 ms

# Below is generated by plot.py at 2018-05-30 11:42:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.12 Mbit/s
95th percentile per-packet one-way delay: 7.148 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 78.12 Mbit/s
95th percentile per-packet one-way delay: 7.148 ms
Loss rate: 0.45%
```

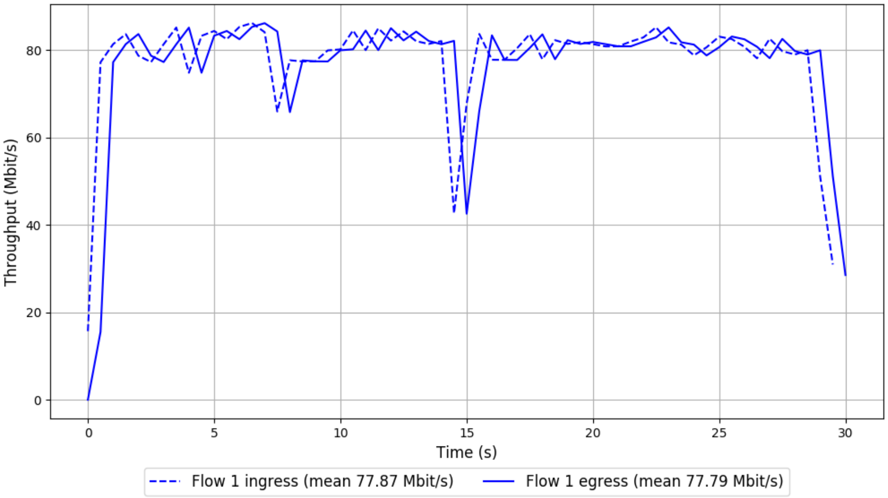
Run 5: Report of QUIC Cubic — Data Link

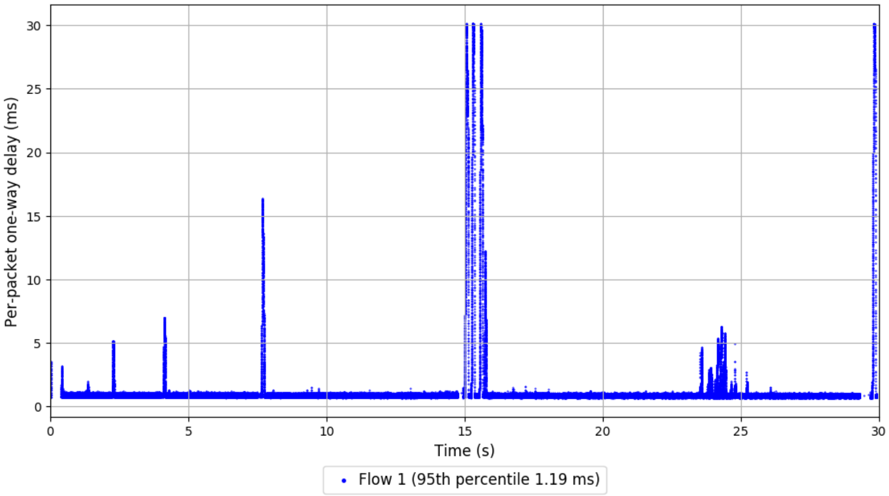




```
Run 6: Statistics of QUIC Cubic

Start at: 2018-05-30 10:03:02
End at: 2018-05-30 10:03:32
Local clock offset: -8.474 ms
Remote clock offset: -1.869 ms

# Below is generated by plot.py at 2018-05-30 11:42:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.79 Mbit/s
95th percentile per-packet one-way delay: 1.190 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 77.79 Mbit/s
95th percentile per-packet one-way delay: 1.190 ms
Loss rate: 0.10%
```

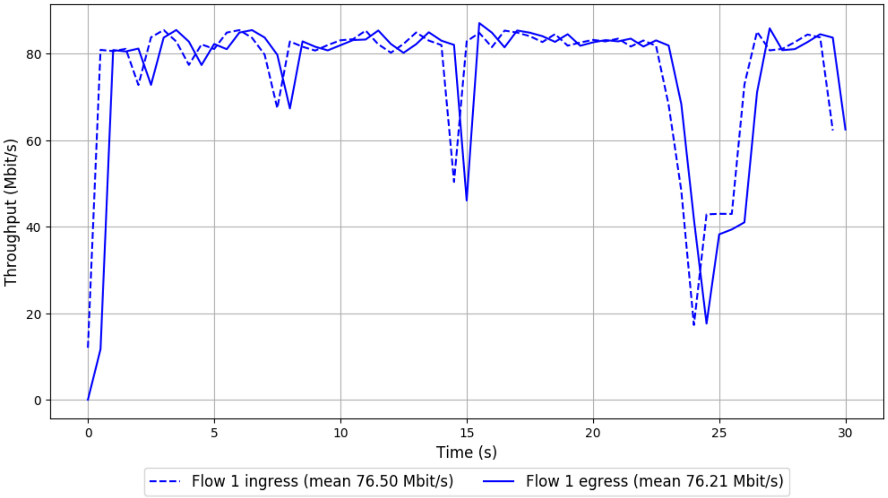
Run 6: Report of QUIC Cubic — Data Link

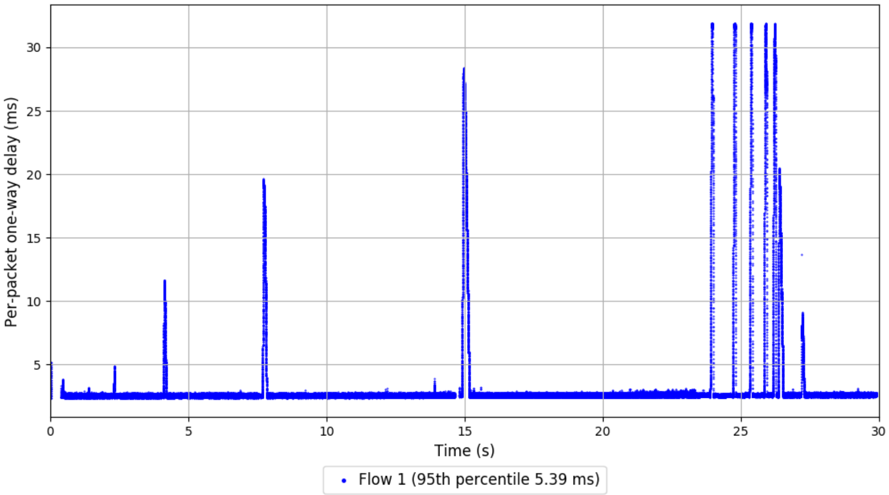




```
Run 7: Statistics of QUIC Cubic

Start at: 2018-05-30 10:20:56
End at: 2018-05-30 10:21:26
Local clock offset: -2.915 ms
Remote clock offset: -1.893 ms

# Below is generated by plot.py at 2018-05-30 11:42:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.21 Mbit/s
95th percentile per-packet one-way delay: 5.395 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 76.21 Mbit/s
95th percentile per-packet one-way delay: 5.395 ms
Loss rate: 0.38%
```

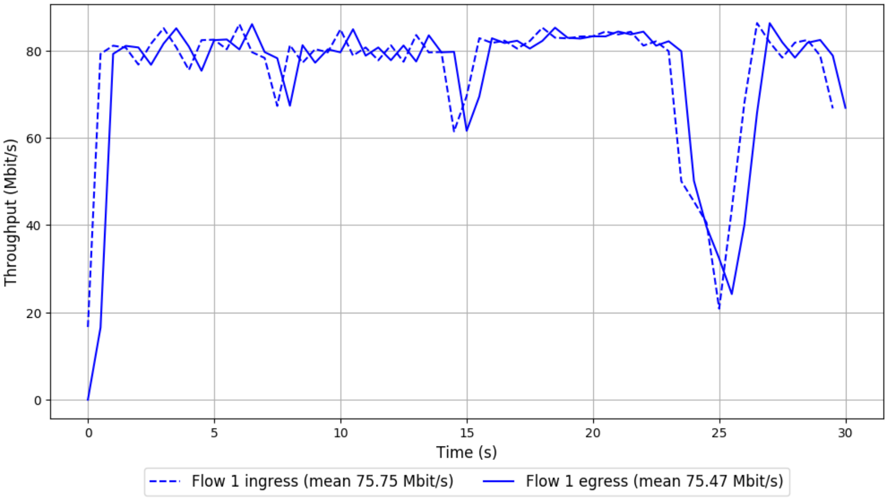
Run 7: Report of QUIC Cubic — Data Link

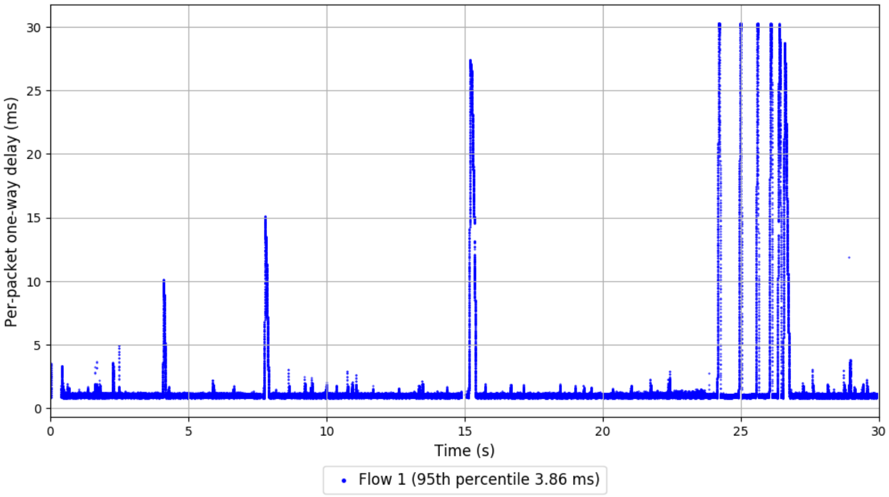




```
Run 8: Statistics of QUIC Cubic

Start at: 2018-05-30 10:38:56
End at: 2018-05-30 10:39:26
Local clock offset: -1.607 ms
Remote clock offset: -1.993 ms

# Below is generated by plot.py at 2018-05-30 11:43:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.47 Mbit/s
95th percentile per-packet one-way delay: 3.862 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 75.47 Mbit/s
95th percentile per-packet one-way delay: 3.862 ms
Loss rate: 0.37%
```

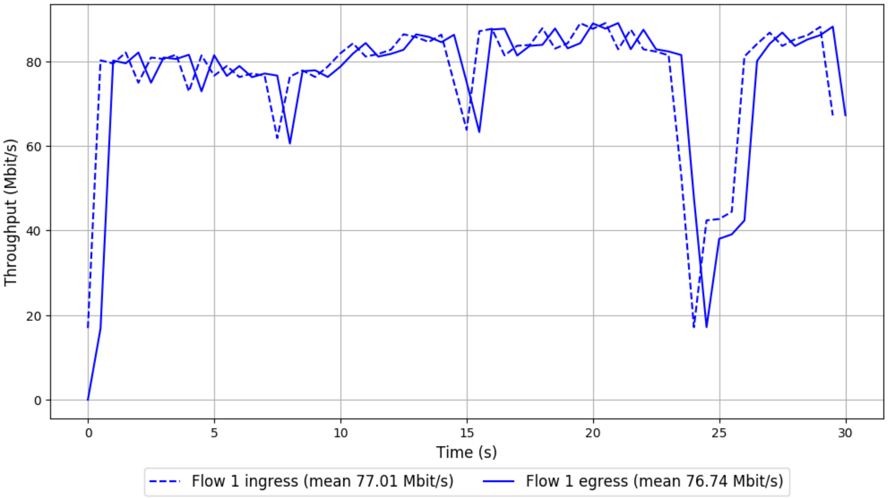
Run 8: Report of QUIC Cubic — Data Link

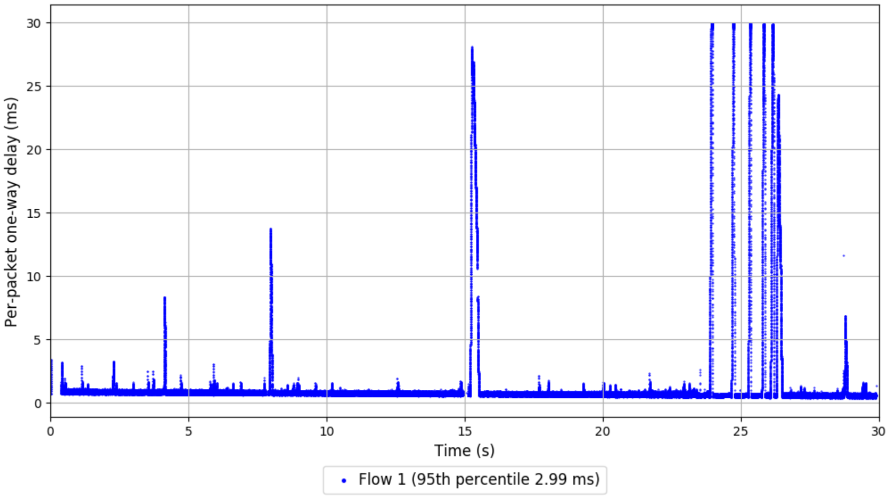




```
Run 9: Statistics of QUIC Cubic

Start at: 2018-05-30 10:56:51
End at: 2018-05-30 10:57:21
Local clock offset: -1.63 ms
Remote clock offset: 5.183 ms

# Below is generated by plot.py at 2018-05-30 11:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.74 Mbit/s
95th percentile per-packet one-way delay: 2.988 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 76.74 Mbit/s
95th percentile per-packet one-way delay: 2.988 ms
Loss rate: 0.35%
```

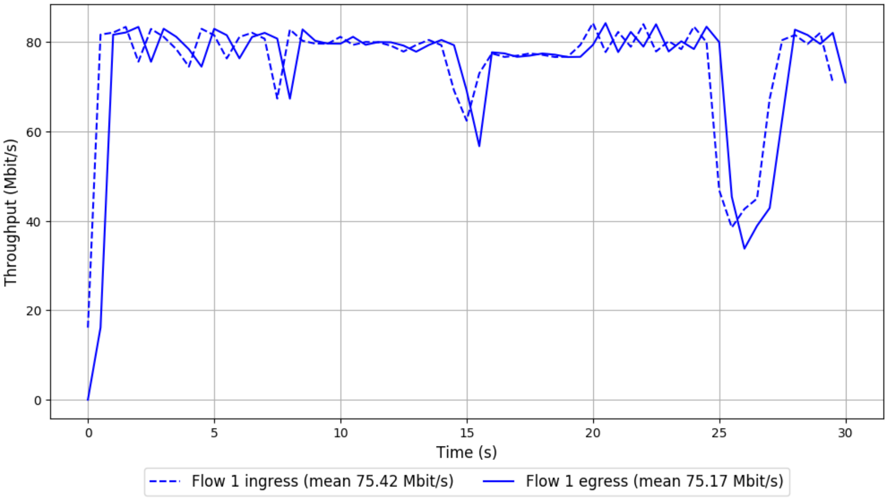
Run 9: Report of QUIC Cubic — Data Link

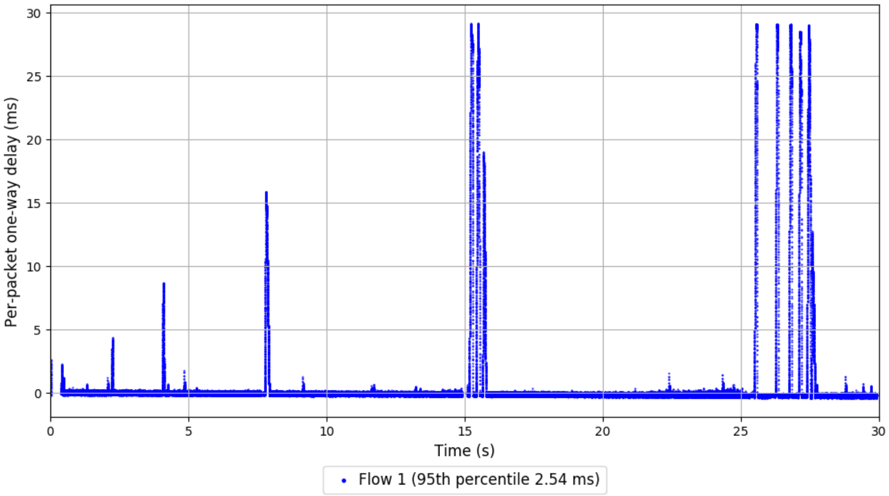




```
Run 10: Statistics of QUIC Cubic

Start at: 2018-05-30 11:14:44
End at: 2018-05-30 11:15:14
Local clock offset: -4.464 ms
Remote clock offset: 11.934 ms

# Below is generated by plot.py at 2018-05-30 11:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.17 Mbit/s
95th percentile per-packet one-way delay: 2.541 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 75.17 Mbit/s
95th percentile per-packet one-way delay: 2.541 ms
Loss rate: 0.33%
```

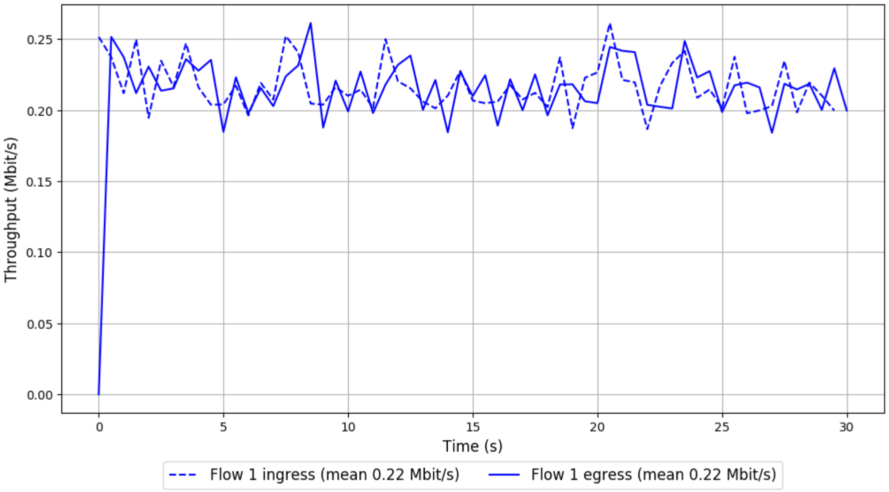
Run 10: Report of QUIC Cubic — Data Link

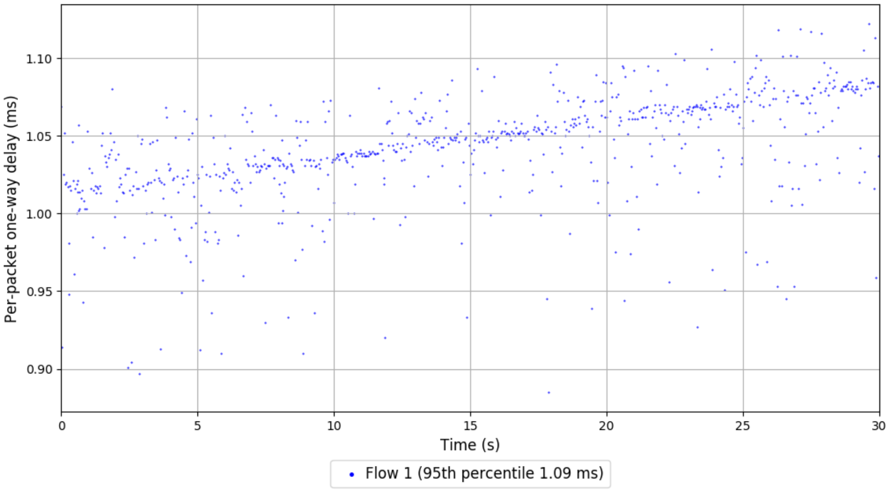




```
Run 1: Statistics of SCReAM

Start at: 2018-05-30 08:36:49
End at: 2018-05-30 08:37:19
Local clock offset: -4.026 ms
Remote clock offset: -3.084 ms

# Below is generated by plot.py at 2018-05-30 11:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.086 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.086 ms
Loss rate: 0.00%
```

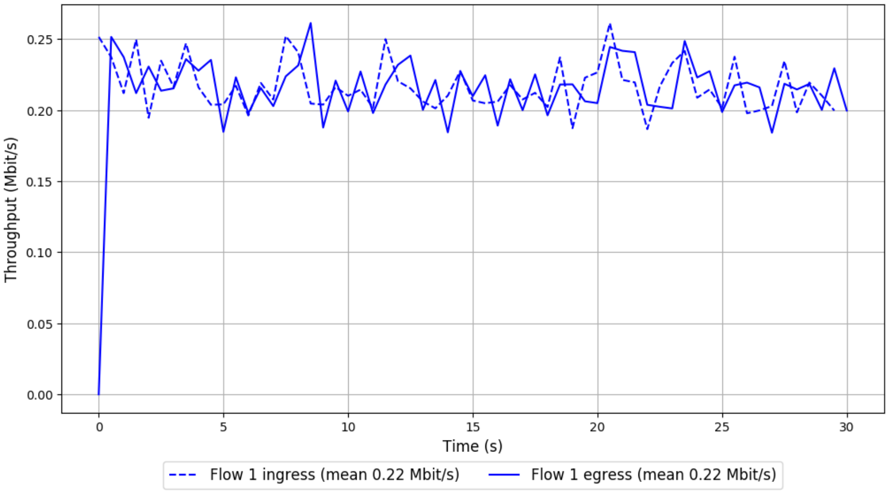
Run 1: Report of SCReAM — Data Link

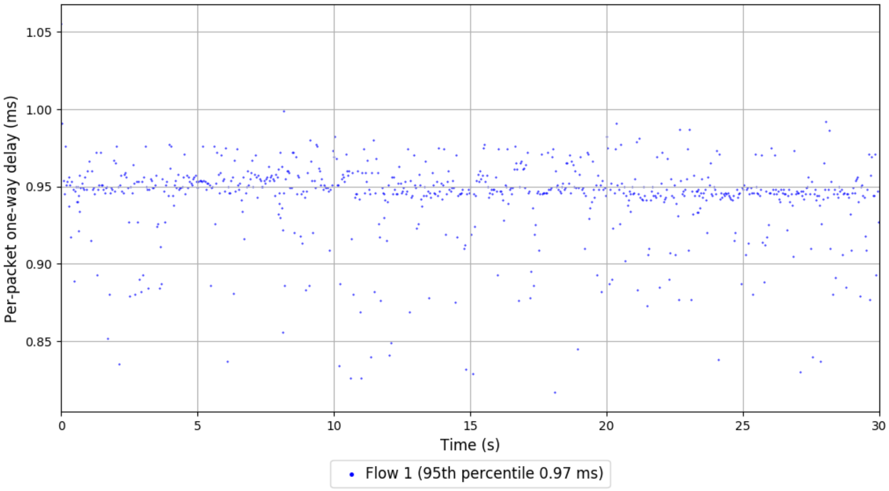




```
Run 2: Statistics of SCReAM

Start at: 2018-05-30 08:54:43
End at: 2018-05-30 08:55:13
Local clock offset: -2.935 ms
Remote clock offset: -2.837 ms

# Below is generated by plot.py at 2018-05-30 11:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.974 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.974 ms
Loss rate: 0.00%
```

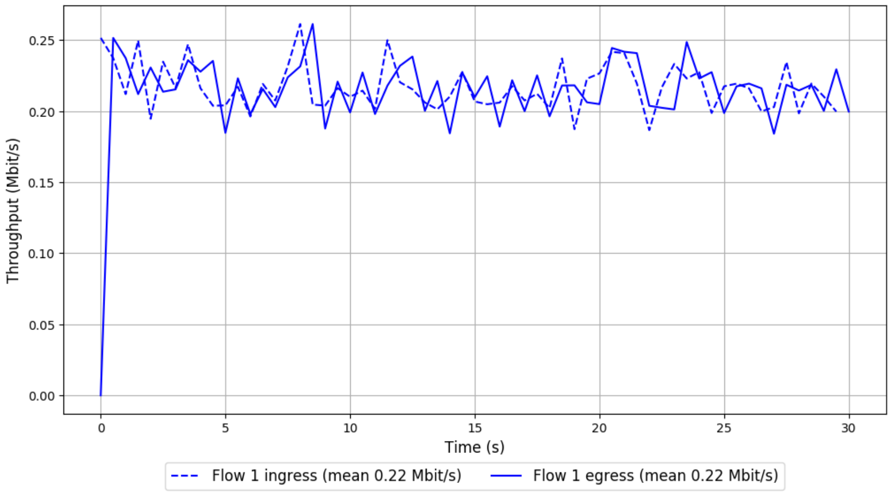
Run 2: Report of SCReAM — Data Link

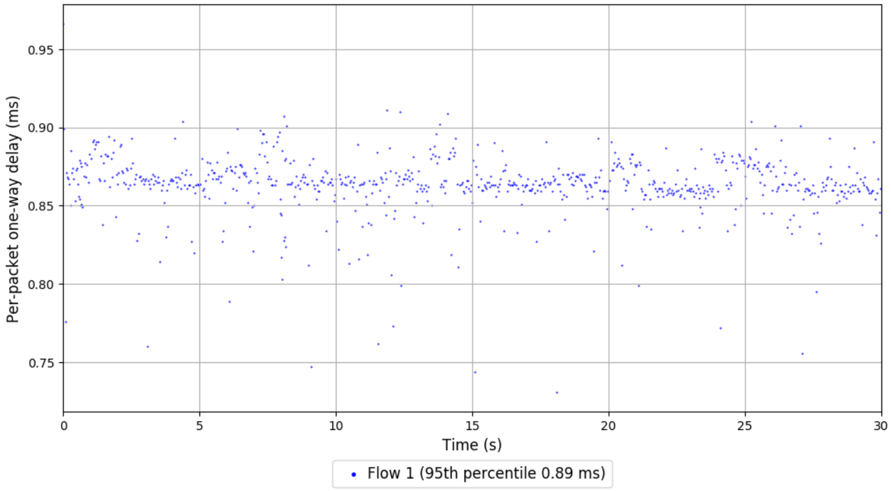




```
Run 3: Statistics of SCReAM

Start at: 2018-05-30 09:12:37
End at: 2018-05-30 09:13:07
Local clock offset: -2.702 ms
Remote clock offset: -2.542 ms

# Below is generated by plot.py at 2018-05-30 11:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.889 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.889 ms
Loss rate: 0.00%
```

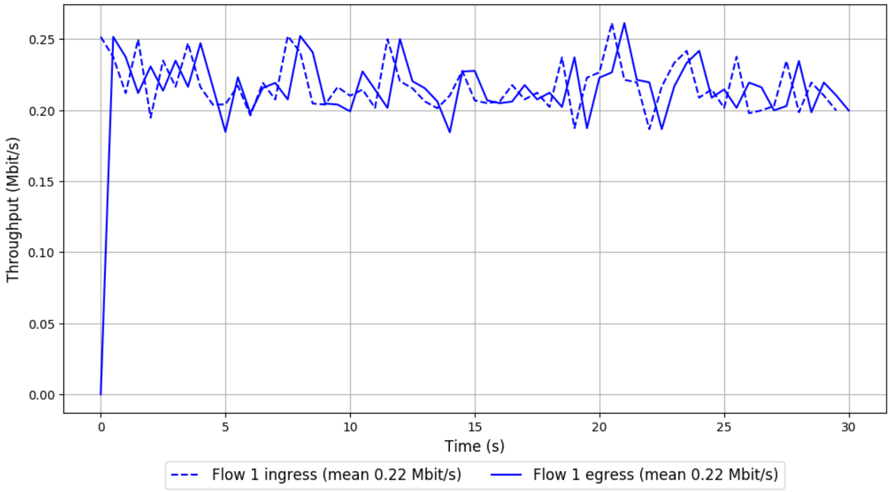
Run 3: Report of SCReAM — Data Link

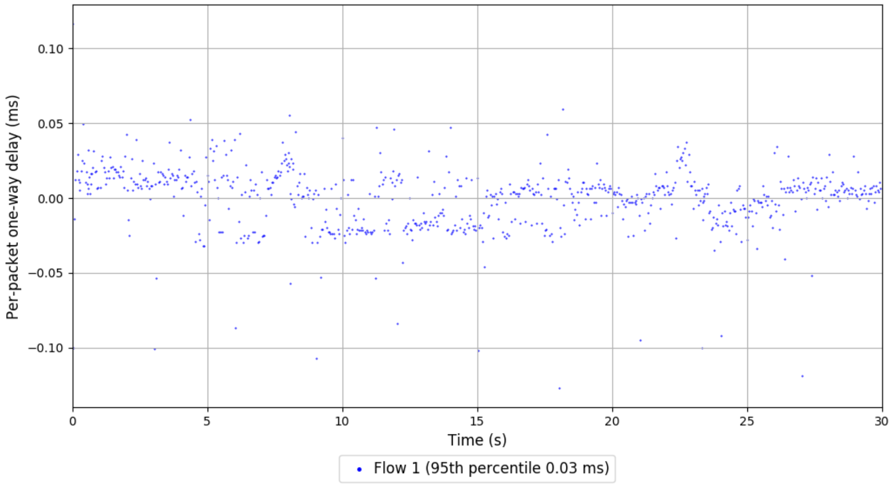




```
Run 4: Statistics of SCReAM

Start at: 2018-05-30 09:30:37
End at: 2018-05-30 09:31:07
Local clock offset: -1.886 ms
Remote clock offset: -2.23 ms

# Below is generated by plot.py at 2018-05-30 11:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.029 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.029 ms
Loss rate: 0.00%
```

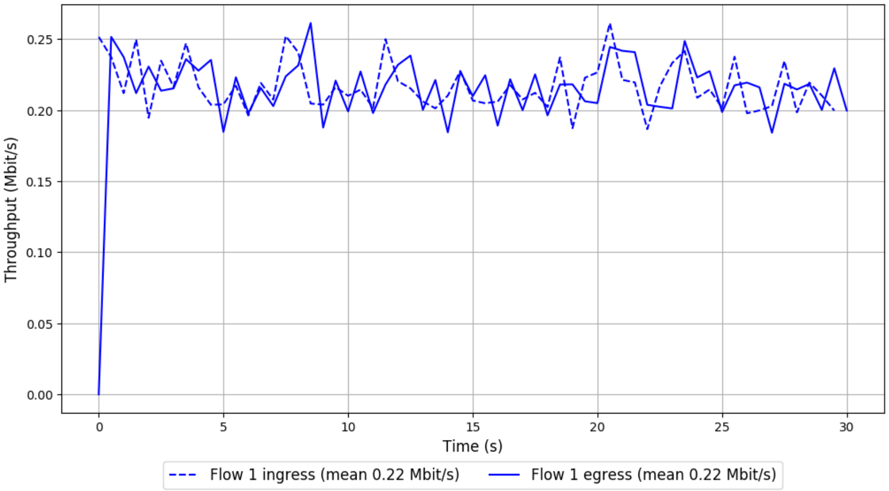
Run 4: Report of SCReAM — Data Link

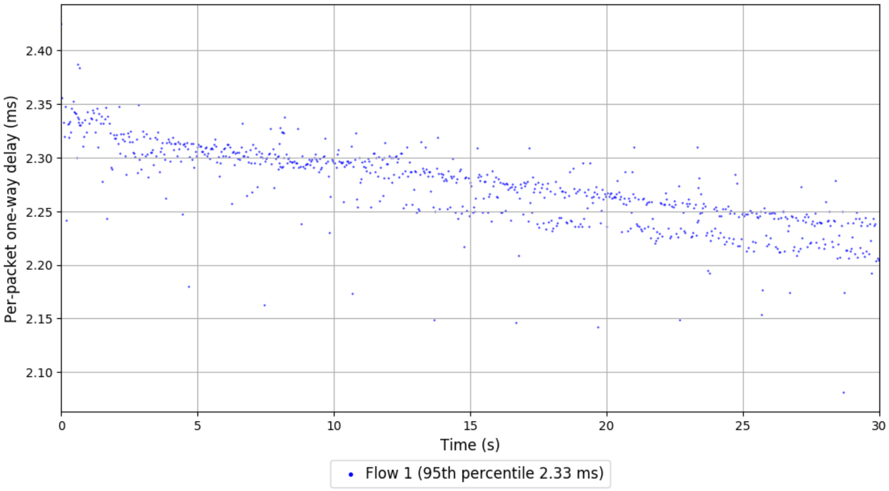




```
Run 5: Statistics of SCReAM

Start at: 2018-05-30 09:48:32
End at: 2018-05-30 09:49:02
Local clock offset: -6.61 ms
Remote clock offset: -1.93 ms

# Below is generated by plot.py at 2018-05-30 11:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.331 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.331 ms
Loss rate: 0.00%
```

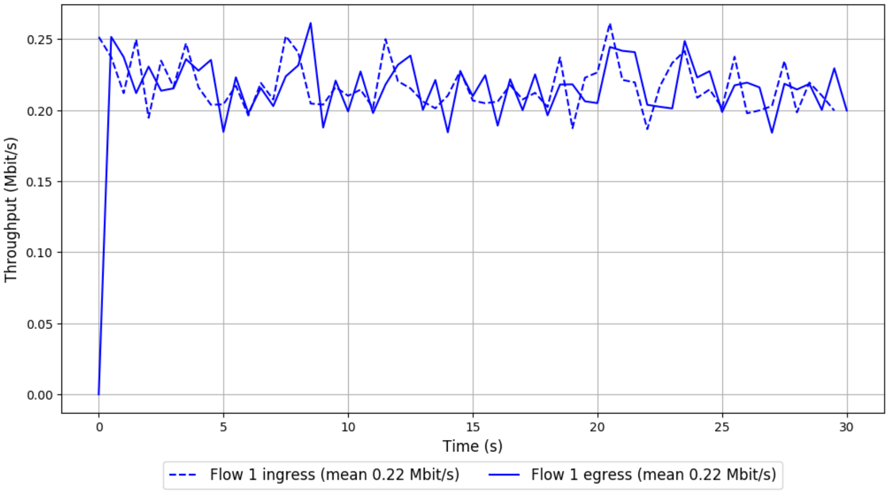
Run 5: Report of SCReAM — Data Link

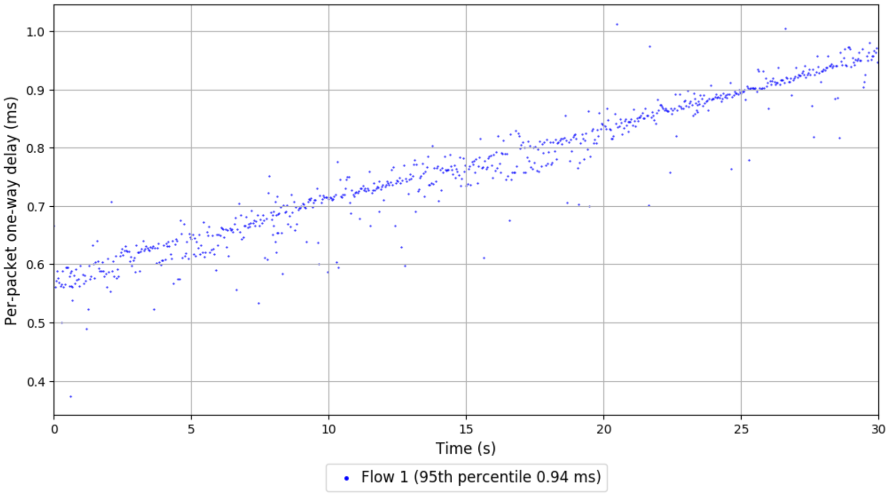




```
Run 6: Statistics of SCReAM

Start at: 2018-05-30 10:06:24
End at: 2018-05-30 10:06:54
Local clock offset: -8.085 ms
Remote clock offset: -1.834 ms

# Below is generated by plot.py at 2018-05-30 11:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.940 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.940 ms
Loss rate: 0.00%
```

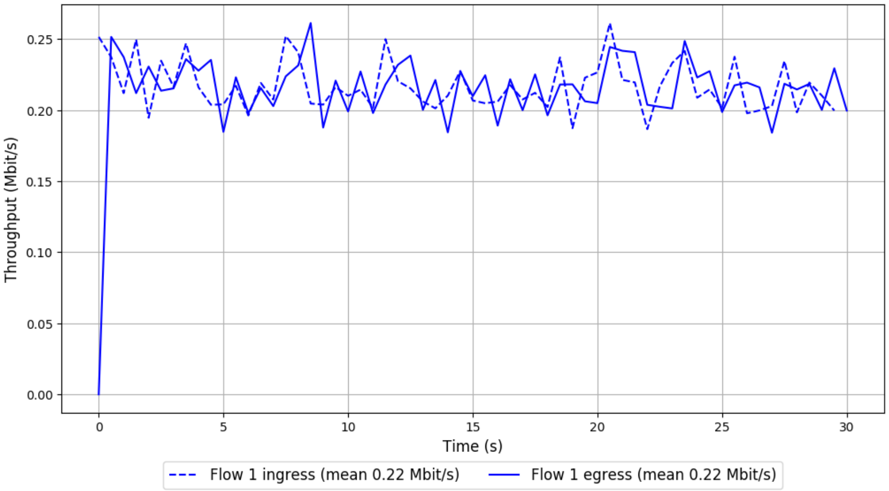
Run 6: Report of SCReAM — Data Link

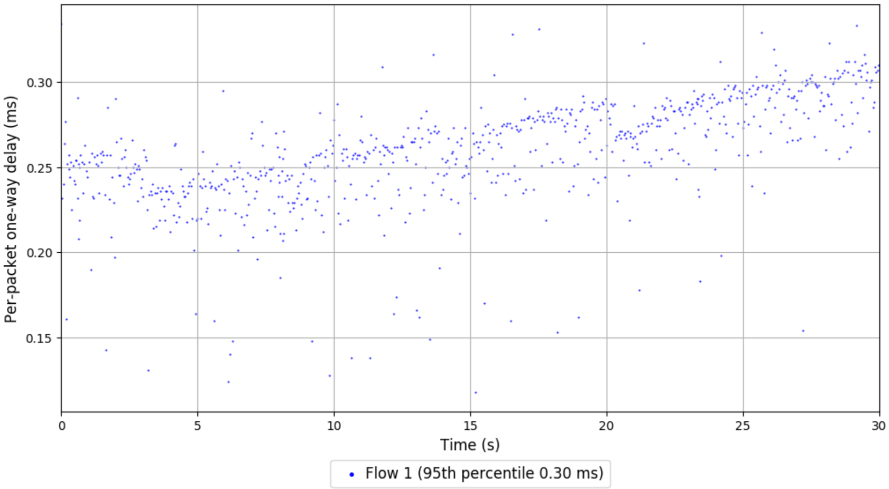




```
Run 7: Statistics of SCReAM

Start at: 2018-05-30 10:24:19
End at: 2018-05-30 10:24:49
Local clock offset: -1.677 ms
Remote clock offset: -1.959 ms

# Below is generated by plot.py at 2018-05-30 11:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.302 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.302 ms
Loss rate: 0.00%
```

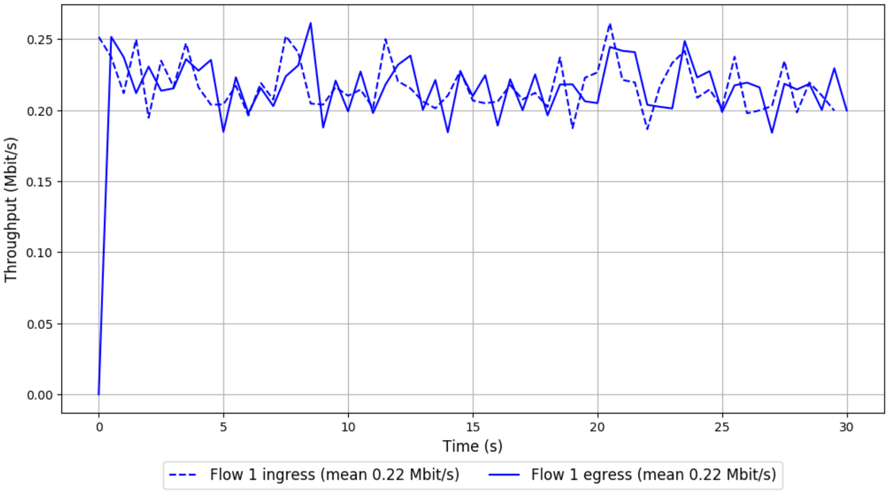
Run 7: Report of SCReAM — Data Link

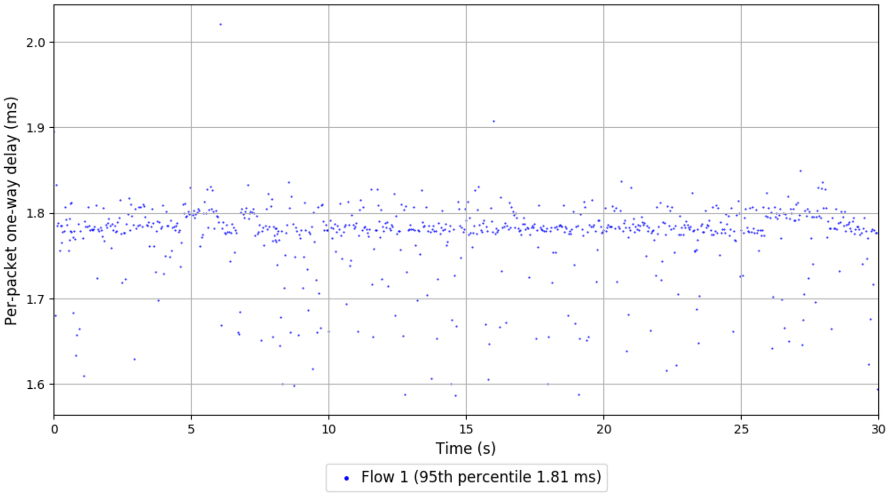




```
Run 8: Statistics of SCReAM

Start at: 2018-05-30 10:42:18
End at: 2018-05-30 10:42:48
Local clock offset: -2.482 ms
Remote clock offset: -2.007 ms

# Below is generated by plot.py at 2018-05-30 11:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.813 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.813 ms
Loss rate: 0.00%
```

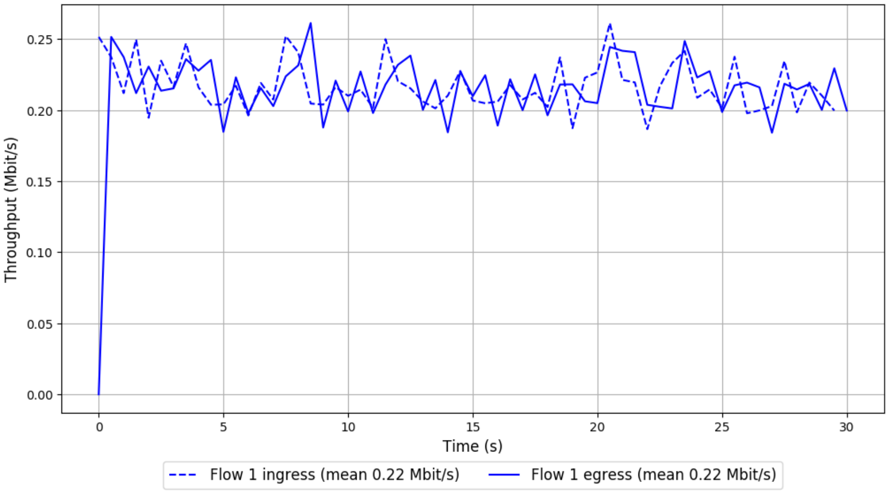
Run 8: Report of SCReAM — Data Link

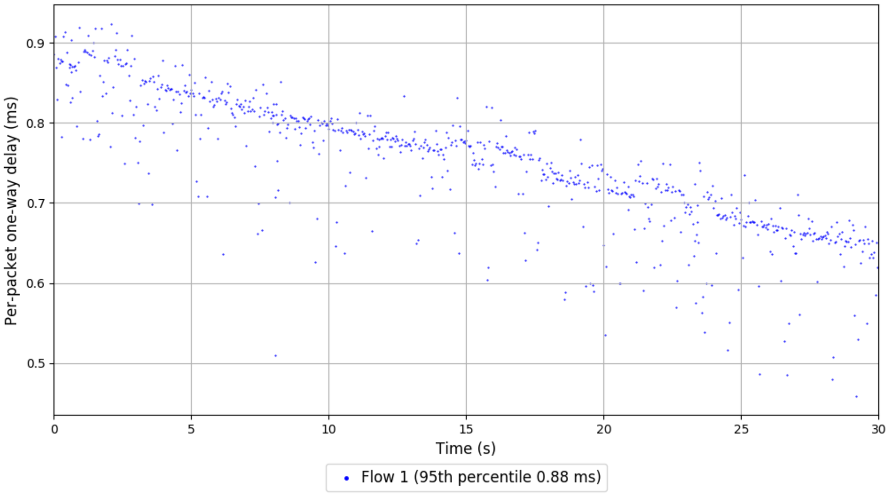




```
Run 9: Statistics of SCReAM

Start at: 2018-05-30 11:00:13
End at: 2018-05-30 11:00:43
Local clock offset: -1.524 ms
Remote clock offset: 7.211 ms

# Below is generated by plot.py at 2018-05-30 11:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.875 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.875 ms
Loss rate: 0.00%
```

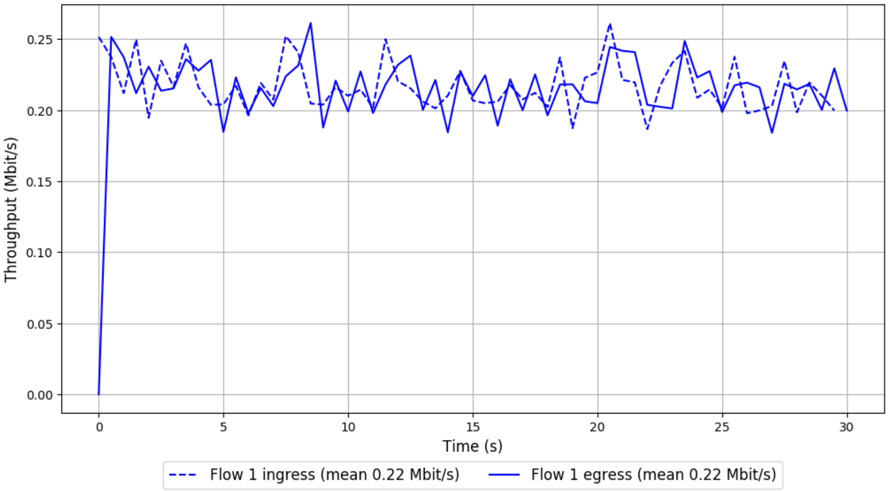
Run 9: Report of SCReAM — Data Link

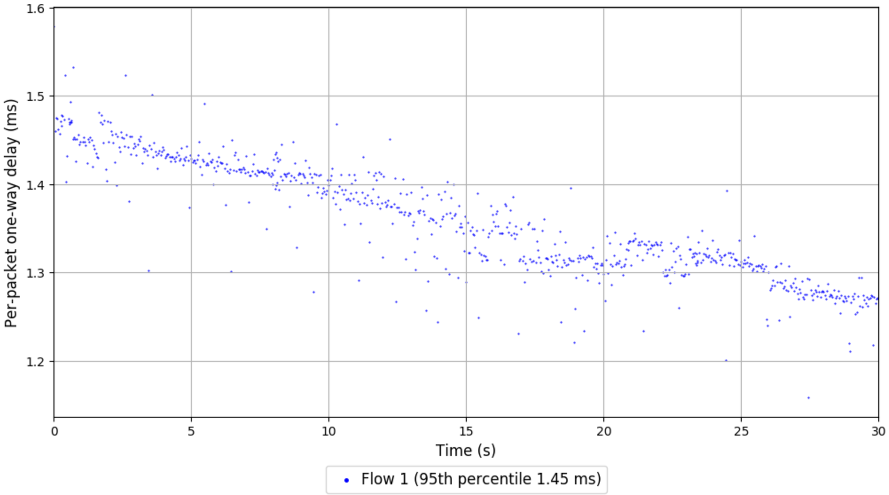




```
Run 10: Statistics of SCReAM

Start at: 2018-05-30 11:18:06
End at: 2018-05-30 11:18:36
Local clock offset: -5.278 ms
Remote clock offset: 12.653 ms

# Below is generated by plot.py at 2018-05-30 11:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.454 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.454 ms
Loss rate: 0.00%
```

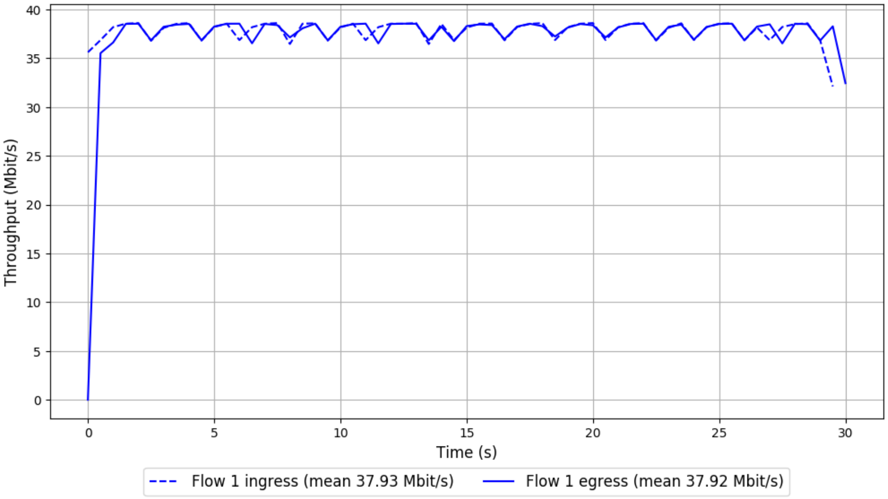
Run 10: Report of SCReAM — Data Link

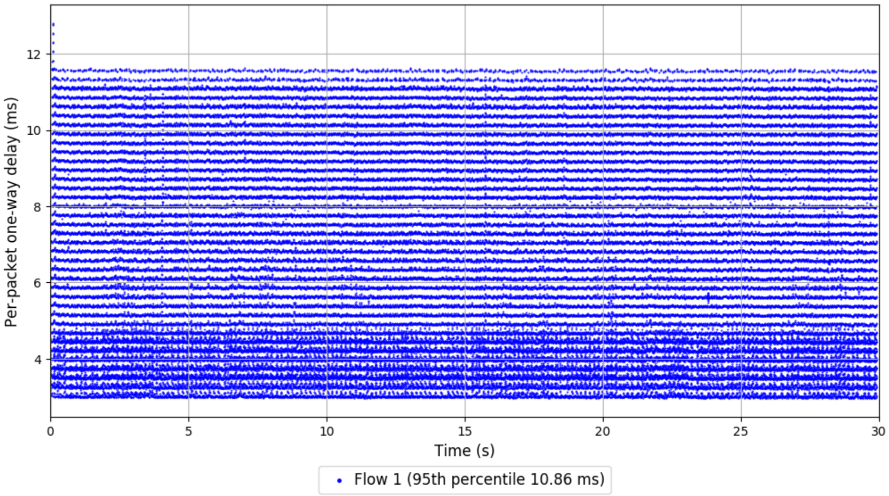




```
Run 1: Statistics of Sprout

Start at: 2018-05-30 08:32:24
End at: 2018-05-30 08:32:54
Local clock offset: -4.691 ms
Remote clock offset: -3.231 ms

# Below is generated by plot.py at 2018-05-30 11:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.92 Mbit/s
95th percentile per-packet one-way delay: 10.860 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 37.92 Mbit/s
95th percentile per-packet one-way delay: 10.860 ms
Loss rate: 0.00%
```

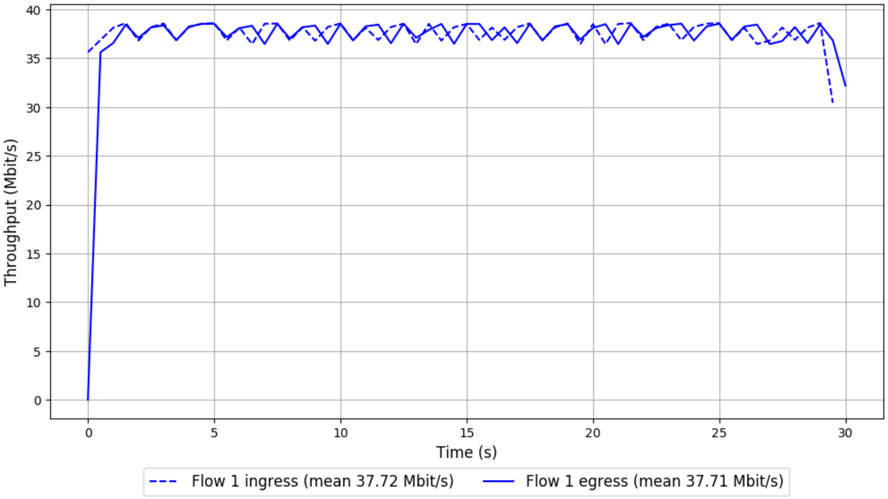
Run 1: Report of Sprout — Data Link

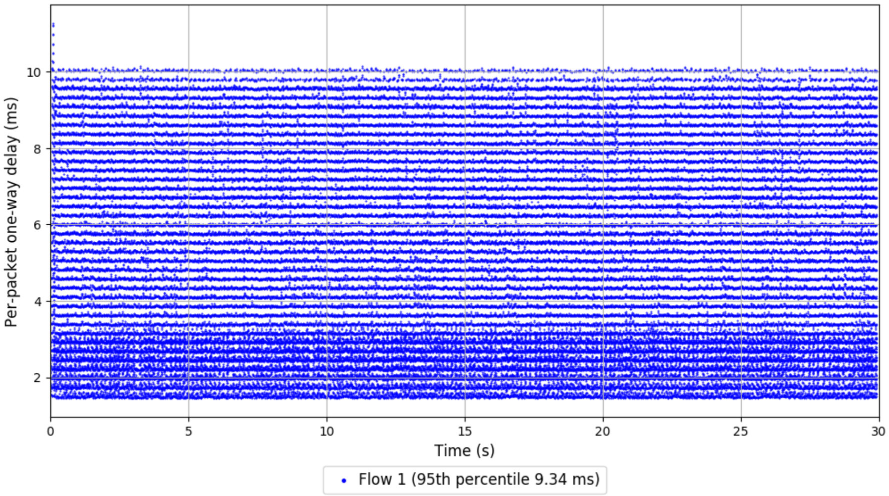




```
Run 2: Statistics of Sprout

Start at: 2018-05-30 08:50:15
End at: 2018-05-30 08:50:45
Local clock offset: -2.145 ms
Remote clock offset: -2.836 ms

# Below is generated by plot.py at 2018-05-30 11:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.71 Mbit/s
95th percentile per-packet one-way delay: 9.336 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 37.71 Mbit/s
95th percentile per-packet one-way delay: 9.336 ms
Loss rate: 0.00%
```

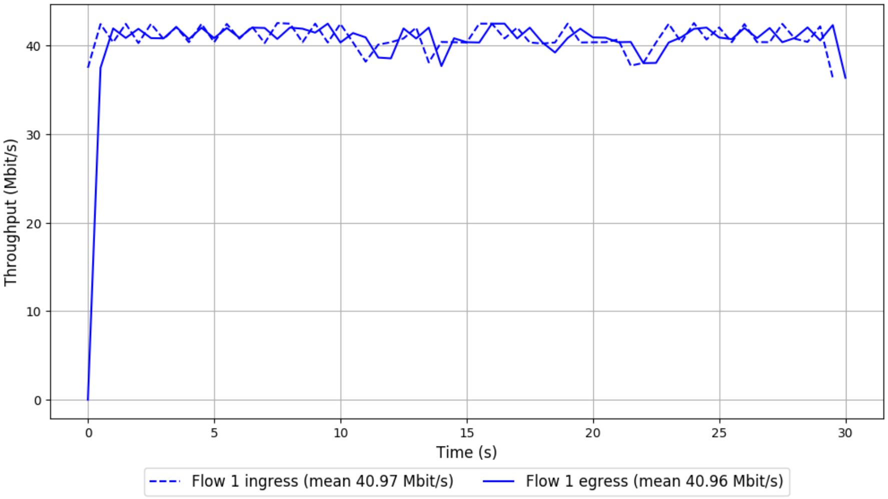
Run 2: Report of Sprout — Data Link

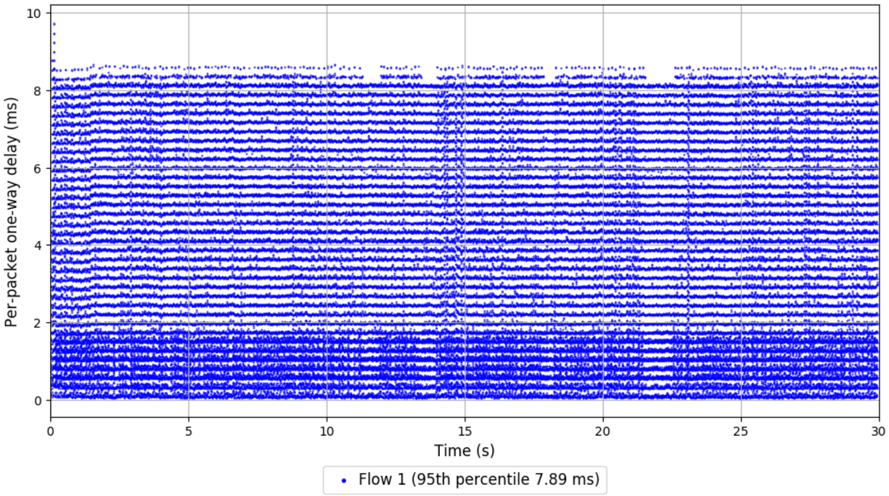




```
Run 3: Statistics of Sprout

Start at: 2018-05-30 09:08:09
End at: 2018-05-30 09:08:39
Local clock offset: -2.135 ms
Remote clock offset: -2.682 ms

# Below is generated by plot.py at 2018-05-30 11:43:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.96 Mbit/s
95th percentile per-packet one-way delay: 7.886 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 40.96 Mbit/s
95th percentile per-packet one-way delay: 7.886 ms
Loss rate: 0.00%
```

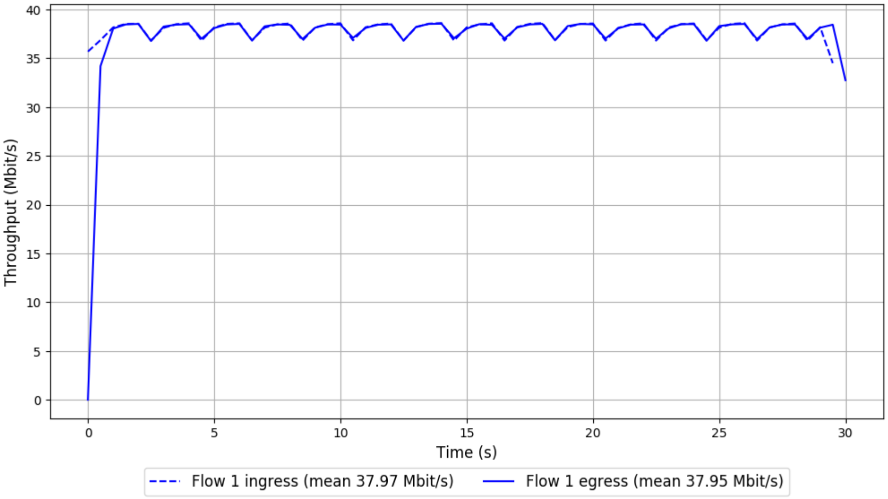
Run 3: Report of Sprout — Data Link

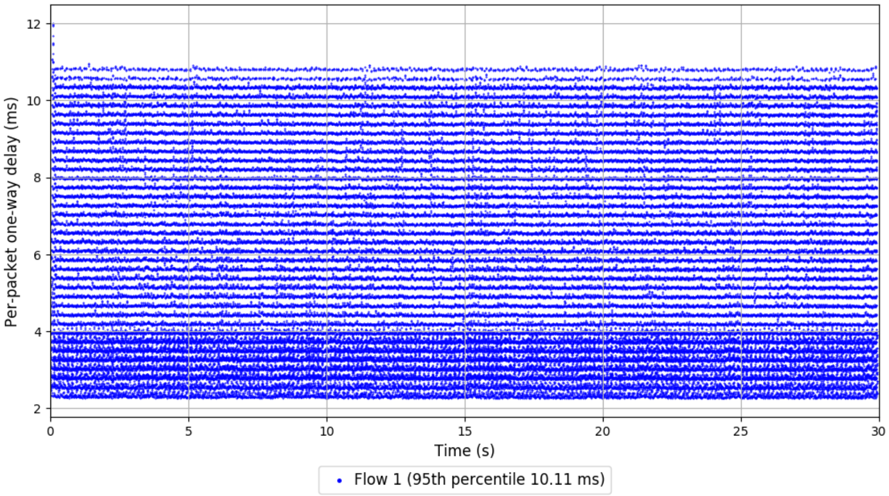




```
Run 4: Statistics of Sprout

Start at: 2018-05-30 09:26:09
End at: 2018-05-30 09:26:39
Local clock offset: -2.685 ms
Remote clock offset: -2.175 ms

# Below is generated by plot.py at 2018-05-30 11:43:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.95 Mbit/s
95th percentile per-packet one-way delay: 10.111 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 37.95 Mbit/s
95th percentile per-packet one-way delay: 10.111 ms
Loss rate: 0.08%
```

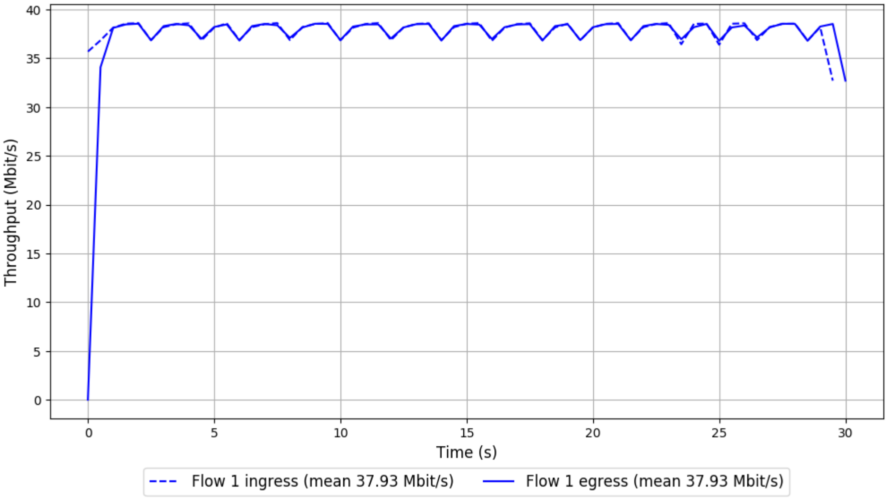
Run 4: Report of Sprout — Data Link

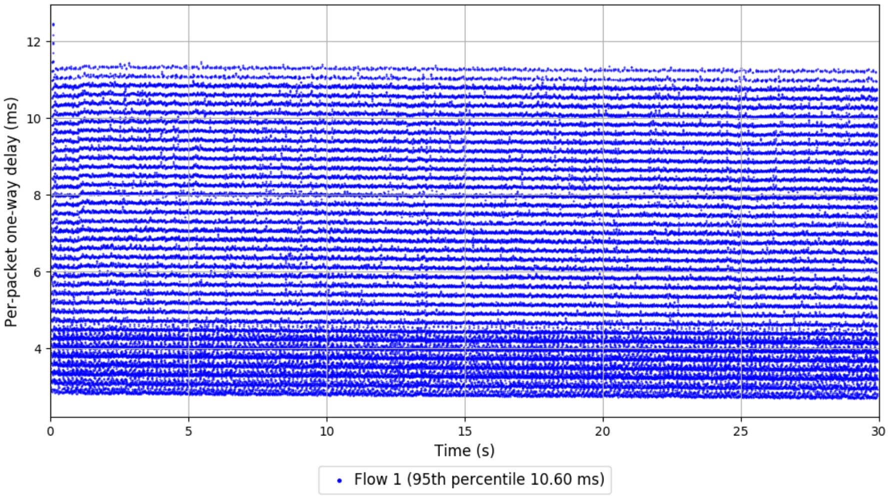




```
Run 5: Statistics of Sprout

Start at: 2018-05-30 09:44:04
End at: 2018-05-30 09:44:34
Local clock offset: -6.402 ms
Remote clock offset: -2.047 ms

# Below is generated by plot.py at 2018-05-30 11:43:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.93 Mbit/s
95th percentile per-packet one-way delay: 10.601 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 37.93 Mbit/s
95th percentile per-packet one-way delay: 10.601 ms
Loss rate: 0.00%
```

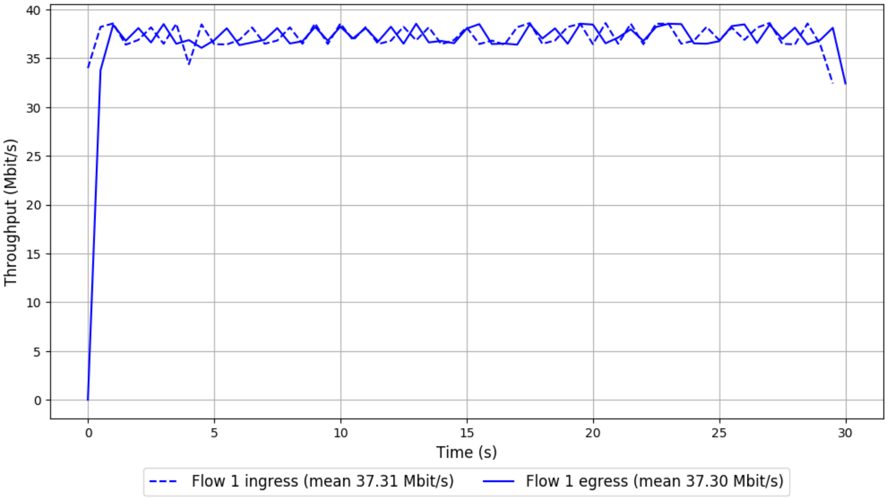
Run 5: Report of Sprout — Data Link

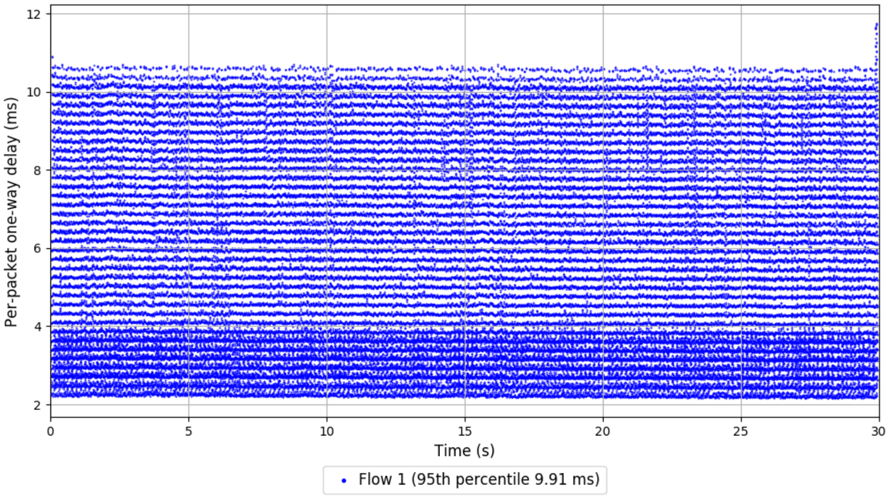




```
Run 6: Statistics of Sprout

Start at: 2018-05-30 10:01:56
End at: 2018-05-30 10:02:26
Local clock offset: -8.385 ms
Remote clock offset: -1.881 ms

# Below is generated by plot.py at 2018-05-30 11:43:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.30 Mbit/s
95th percentile per-packet one-way delay: 9.909 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 37.30 Mbit/s
95th percentile per-packet one-way delay: 9.909 ms
Loss rate: 0.00%
```

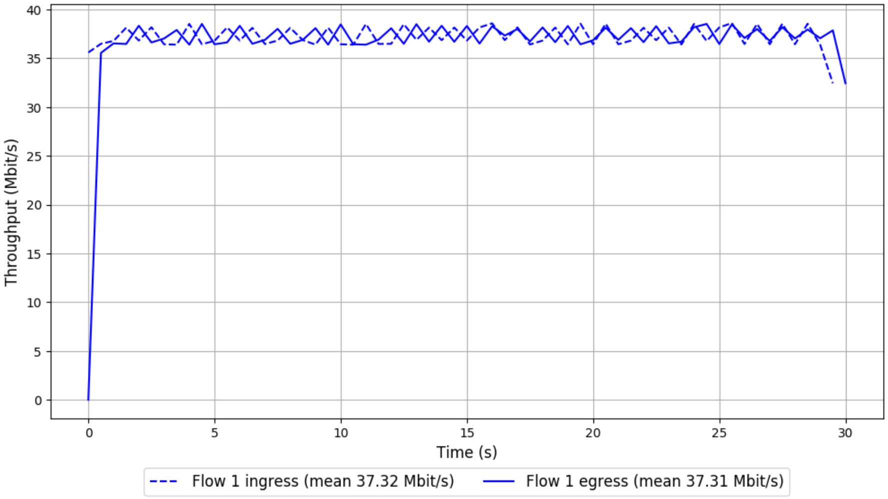
Run 6: Report of Sprout — Data Link

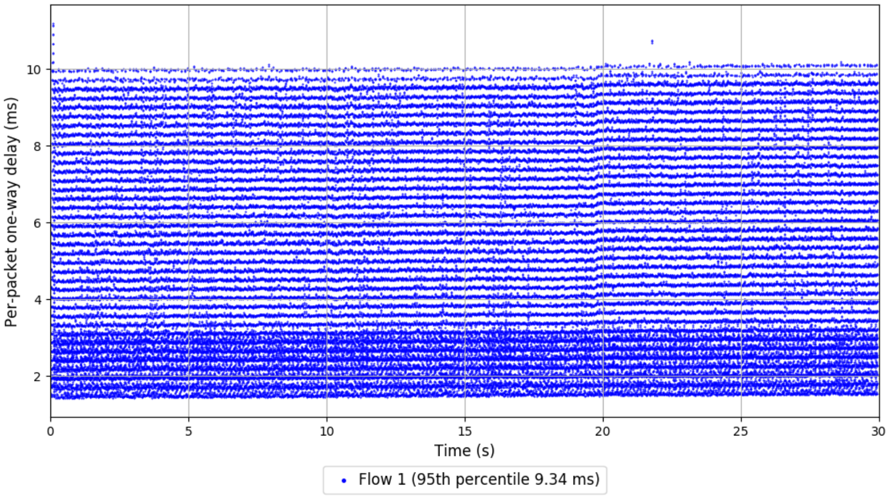




```
Run 7: Statistics of Sprout

Start at: 2018-05-30 10:19:50
End at: 2018-05-30 10:20:20
Local clock offset: -2.347 ms
Remote clock offset: -2.038 ms

# Below is generated by plot.py at 2018-05-30 11:43:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.31 Mbit/s
95th percentile per-packet one-way delay: 9.342 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 37.31 Mbit/s
95th percentile per-packet one-way delay: 9.342 ms
Loss rate: 0.00%
```

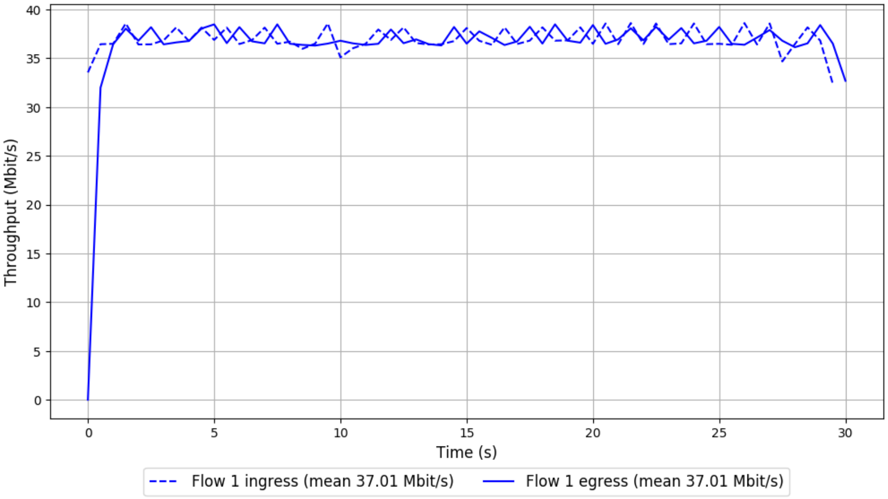
Run 7: Report of Sprout — Data Link

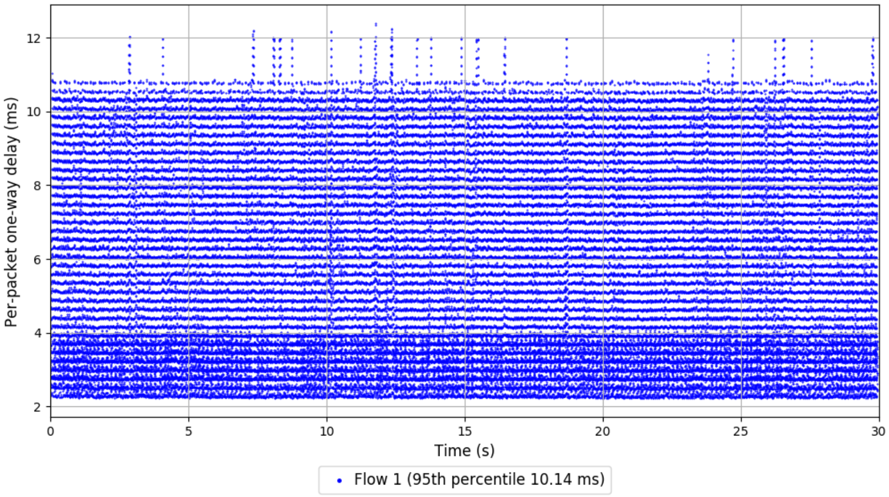




```
Run 8: Statistics of Sprout

Start at: 2018-05-30 10:37:50
End at: 2018-05-30 10:38:20
Local clock offset: -1.638 ms
Remote clock offset: -2.089 ms

# Below is generated by plot.py at 2018-05-30 11:43:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.01 Mbit/s
95th percentile per-packet one-way delay: 10.140 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 37.01 Mbit/s
95th percentile per-packet one-way delay: 10.140 ms
Loss rate: 0.00%
```

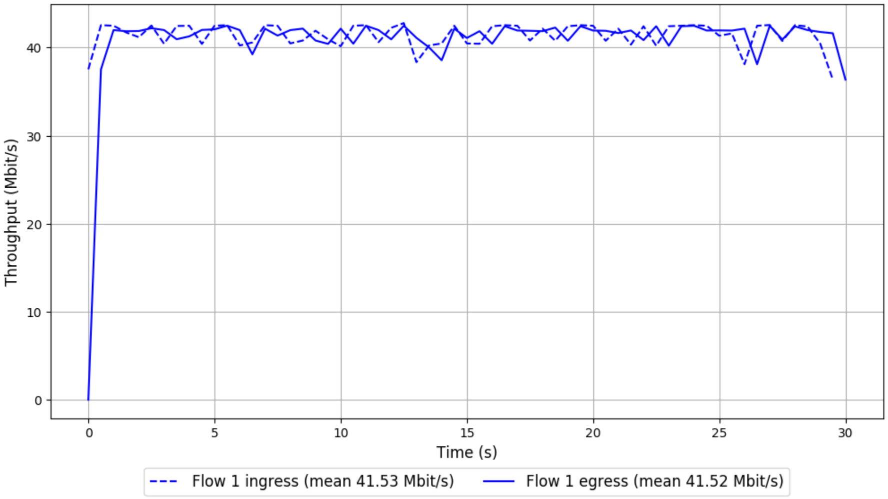
Run 8: Report of Sprout — Data Link

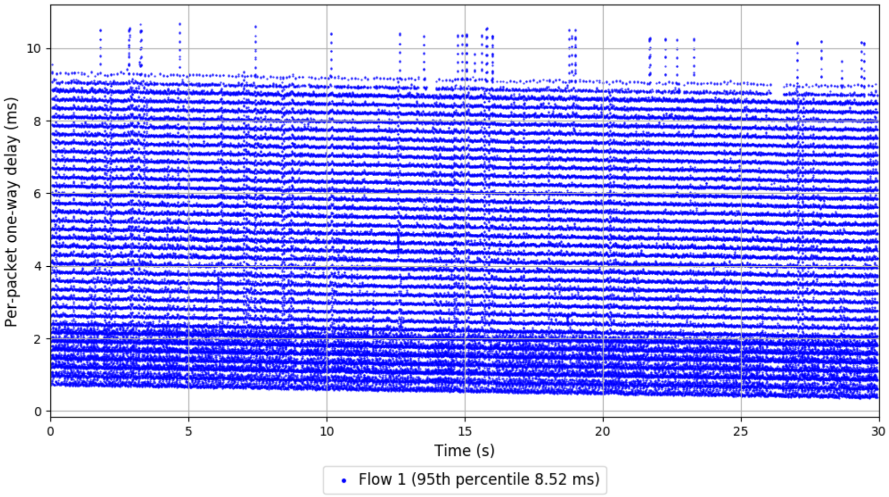




```
Run 9: Statistics of Sprout

Start at: 2018-05-30 10:55:45
End at: 2018-05-30 10:56:15
Local clock offset: -1.598 ms
Remote clock offset: 4.442 ms

# Below is generated by plot.py at 2018-05-30 11:43:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.52 Mbit/s
95th percentile per-packet one-way delay: 8.516 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.52 Mbit/s
95th percentile per-packet one-way delay: 8.516 ms
Loss rate: 0.00%
```

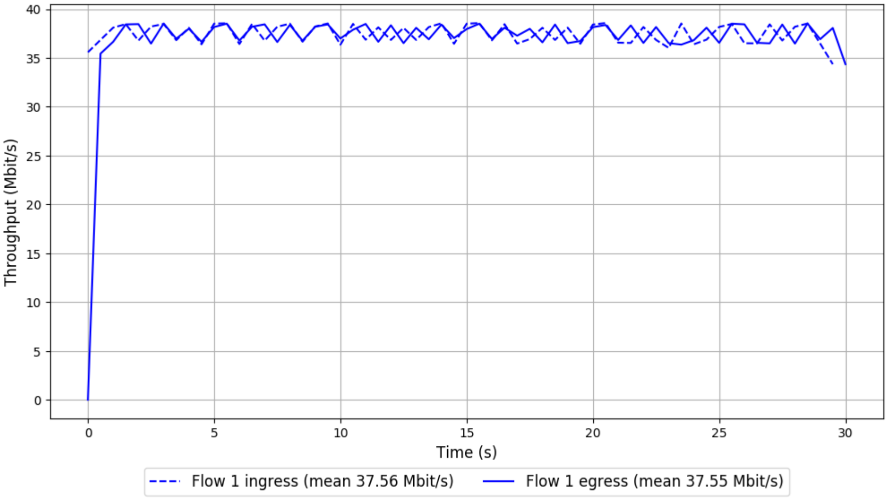
Run 9: Report of Sprout — Data Link

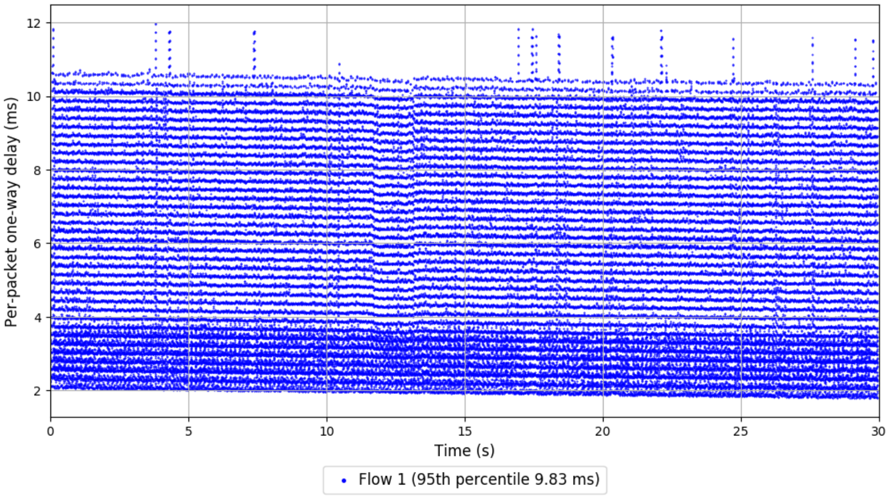




```
Run 10: Statistics of Sprout

Start at: 2018-05-30 11:13:39
End at: 2018-05-30 11:14:09
Local clock offset: -4.842 ms
Remote clock offset: 11.735 ms

# Below is generated by plot.py at 2018-05-30 11:43:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.55 Mbit/s
95th percentile per-packet one-way delay: 9.831 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 37.55 Mbit/s
95th percentile per-packet one-way delay: 9.831 ms
Loss rate: 0.00%
```

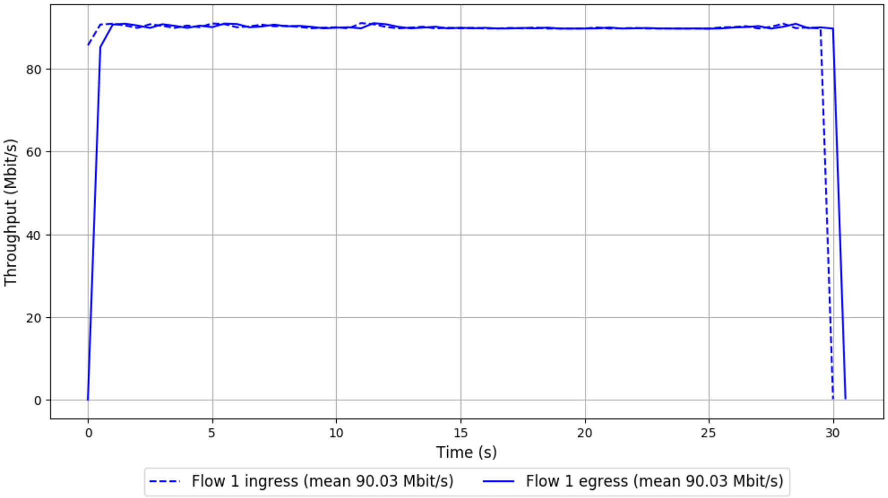
Run 10: Report of Sprout — Data Link

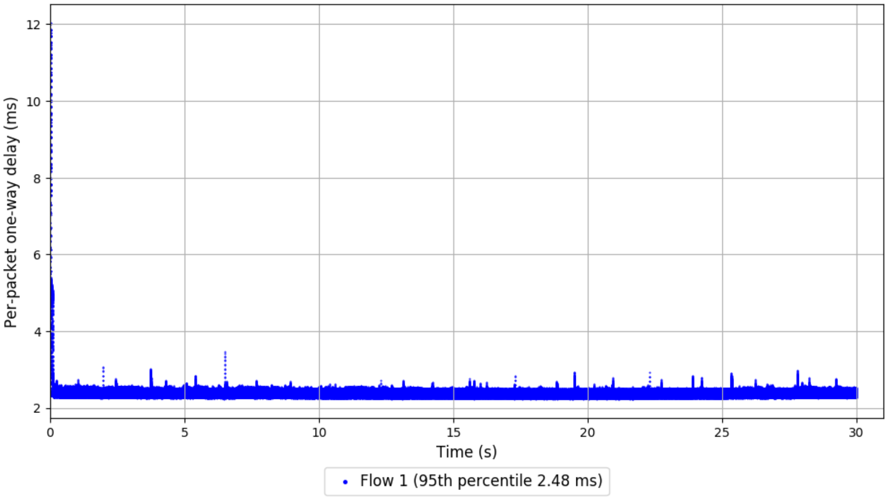




```
Run 1: Statistics of TaoVA-100x

Start at: 2018-05-30 08:35:39
End at: 2018-05-30 08:36:09
Local clock offset: -4.036 ms
Remote clock offset: -3.076 ms

# Below is generated by plot.py at 2018-05-30 11:45:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.03 Mbit/s
95th percentile per-packet one-way delay: 2.484 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 90.03 Mbit/s
95th percentile per-packet one-way delay: 2.484 ms
Loss rate: 0.00%
```

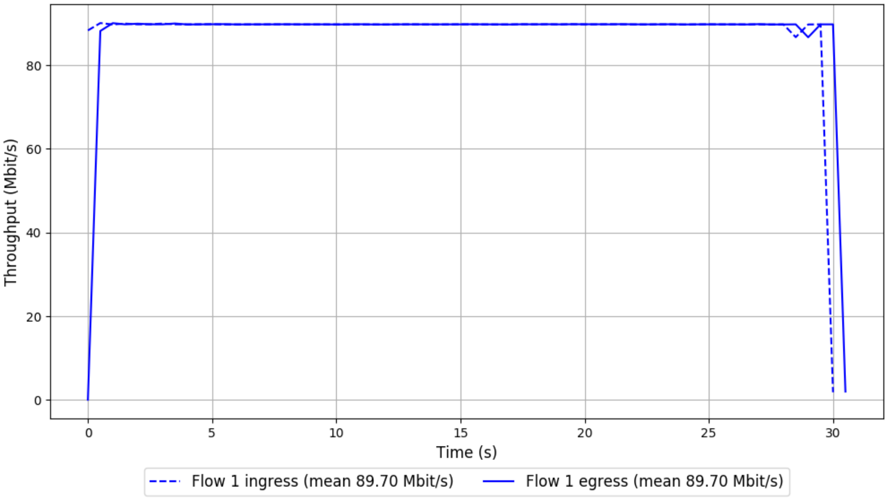
Run 1: Report of TaoVA-100x — Data Link

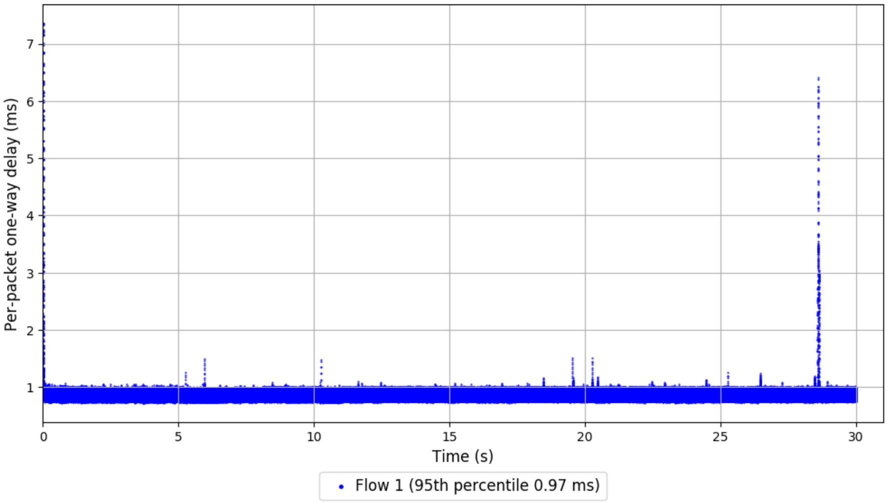




```
Run 2: Statistics of TaoVA-100x

Start at: 2018-05-30 08:53:33
End at: 2018-05-30 08:54:03
Local clock offset: -2.884 ms
Remote clock offset: -2.866 ms

# Below is generated by plot.py at 2018-05-30 11:45:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.70 Mbit/s
95th percentile per-packet one-way delay: 0.967 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.70 Mbit/s
95th percentile per-packet one-way delay: 0.967 ms
Loss rate: 0.00%
```

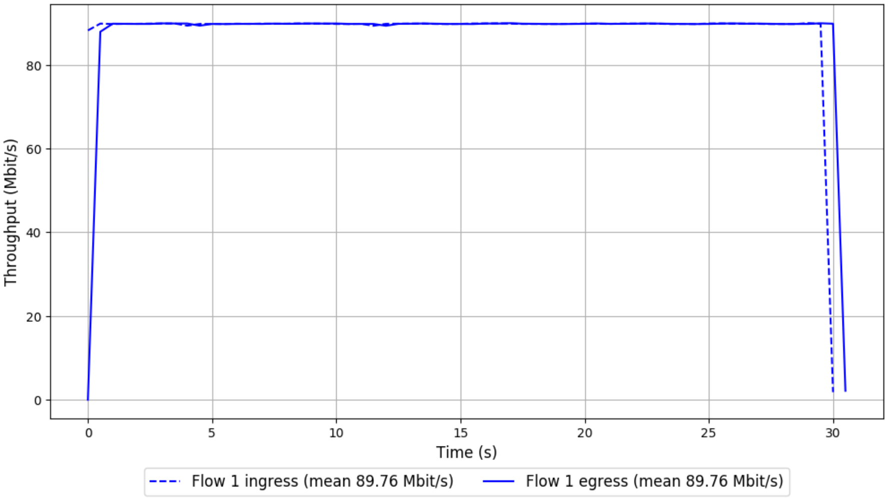
Run 2: Report of TaoVA-100x — Data Link

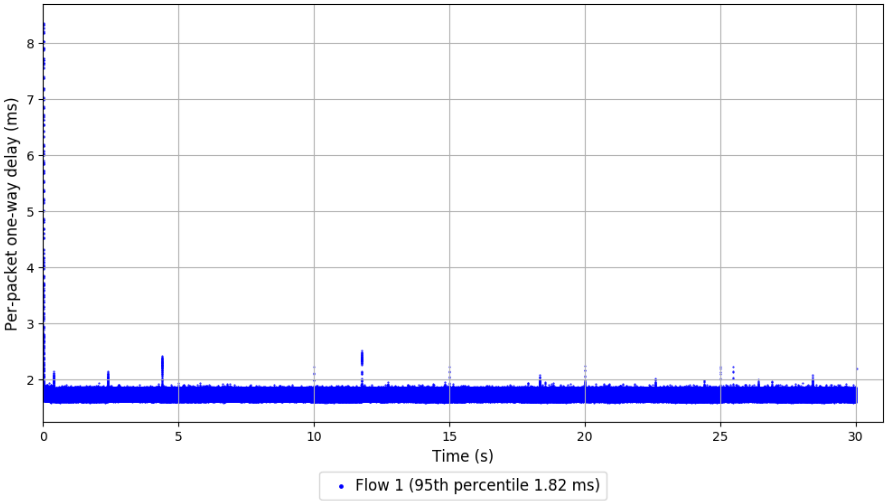




```
Run 3: Statistics of TaoVA-100x

Start at: 2018-05-30 09:11:27
End at: 2018-05-30 09:11:57
Local clock offset: -3.508 ms
Remote clock offset: -2.499 ms

# Below is generated by plot.py at 2018-05-30 11:45:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.76 Mbit/s
95th percentile per-packet one-way delay: 1.825 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.76 Mbit/s
95th percentile per-packet one-way delay: 1.825 ms
Loss rate: 0.00%
```

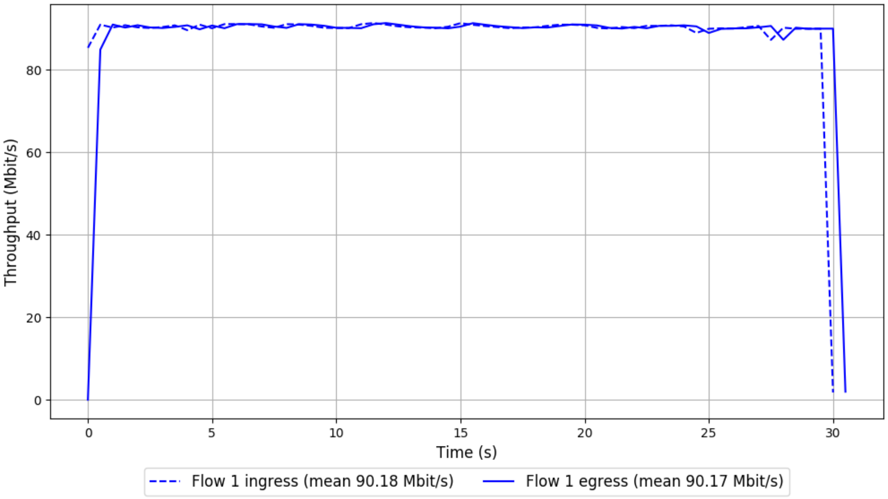
Run 3: Report of TaoVA-100x — Data Link

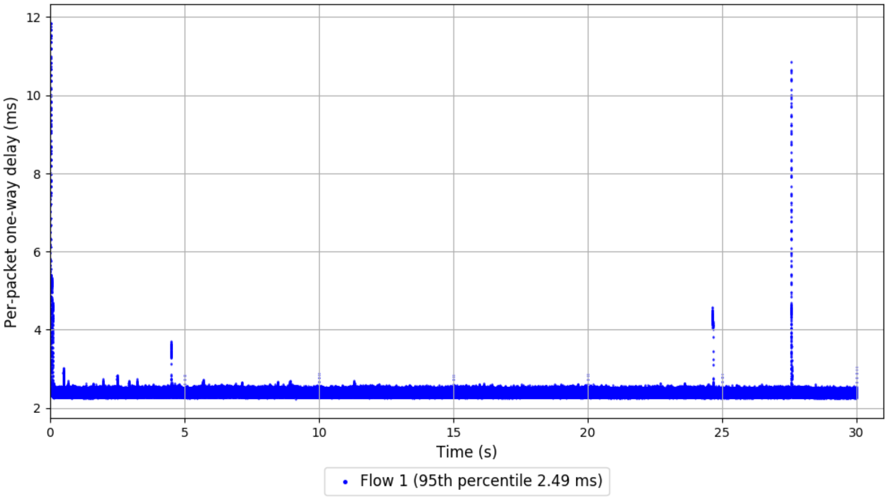




```
Run 4: Statistics of TaoVA-100x

Start at: 2018-05-30 09:29:27
End at: 2018-05-30 09:29:57
Local clock offset: -2.649 ms
Remote clock offset: -2.11 ms

# Below is generated by plot.py at 2018-05-30 11:45:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.17 Mbit/s
95th percentile per-packet one-way delay: 2.490 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 90.17 Mbit/s
95th percentile per-packet one-way delay: 2.490 ms
Loss rate: 0.00%
```

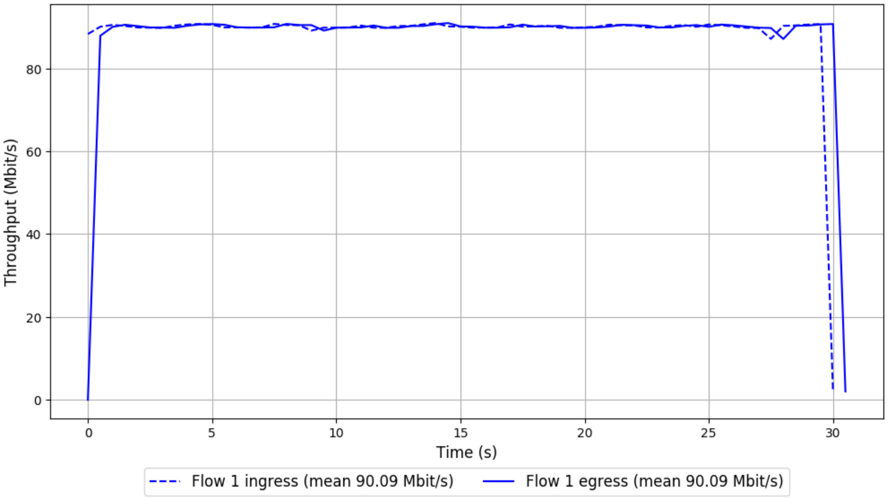
Run 4: Report of TaoVA-100x — Data Link

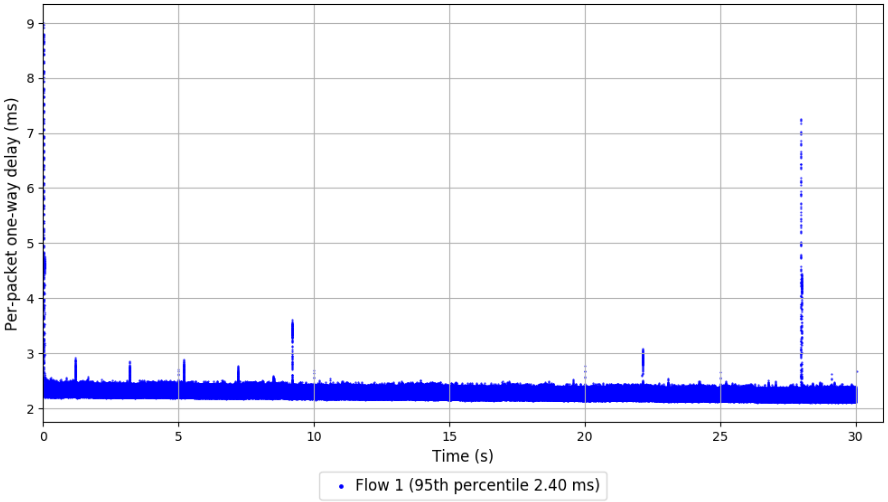




```
Run 5: Statistics of TaoVA-100x

Start at: 2018-05-30 09:47:22
End at: 2018-05-30 09:47:52
Local clock offset: -6.465 ms
Remote clock offset: -1.999 ms

# Below is generated by plot.py at 2018-05-30 11:45:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.09 Mbit/s
95th percentile per-packet one-way delay: 2.403 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 90.09 Mbit/s
95th percentile per-packet one-way delay: 2.403 ms
Loss rate: 0.00%
```

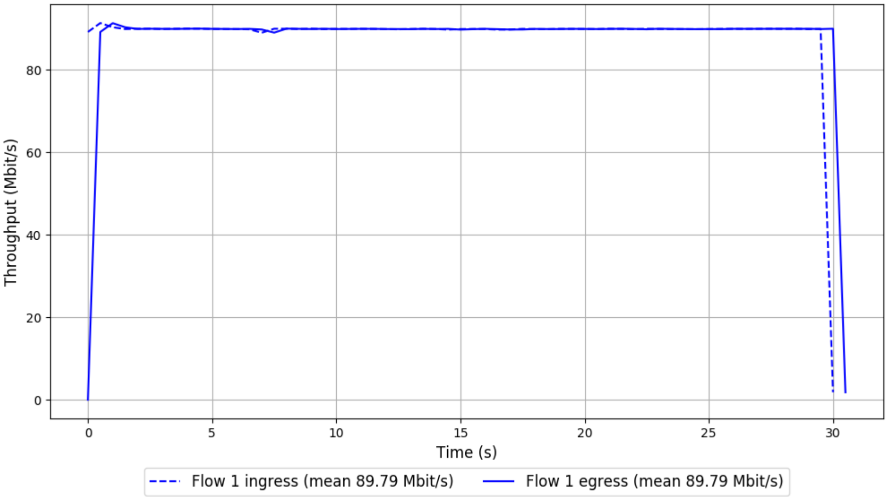
Run 5: Report of TaoVA-100x — Data Link

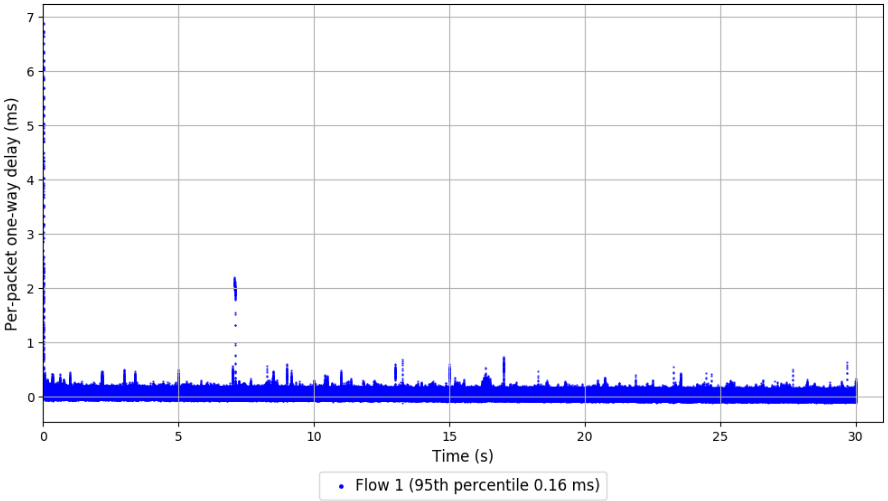




```
Run 6: Statistics of TaoVA-100x

Start at: 2018-05-30 10:05:14
End at: 2018-05-30 10:05:44
Local clock offset: -7.907 ms
Remote clock offset: -1.905 ms

# Below is generated by plot.py at 2018-05-30 11:45:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.79 Mbit/s
95th percentile per-packet one-way delay: 0.162 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.79 Mbit/s
95th percentile per-packet one-way delay: 0.162 ms
Loss rate: 0.00%
```

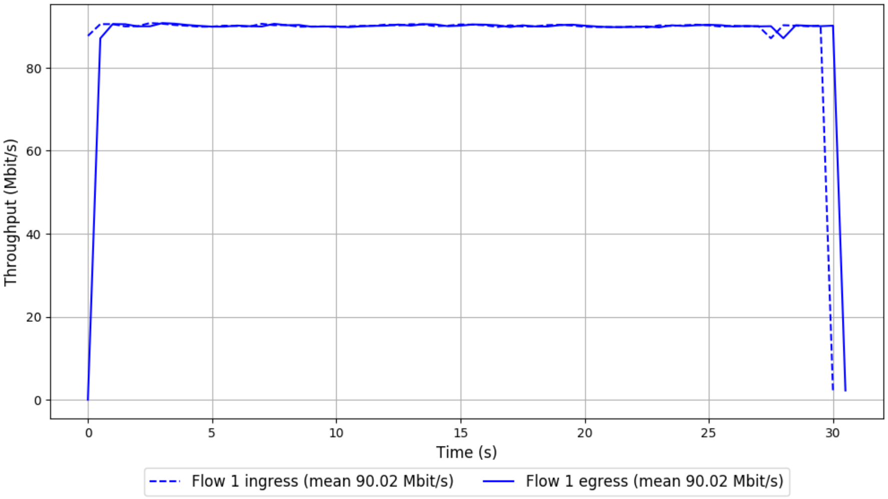
Run 6: Report of TaoVA-100x — Data Link

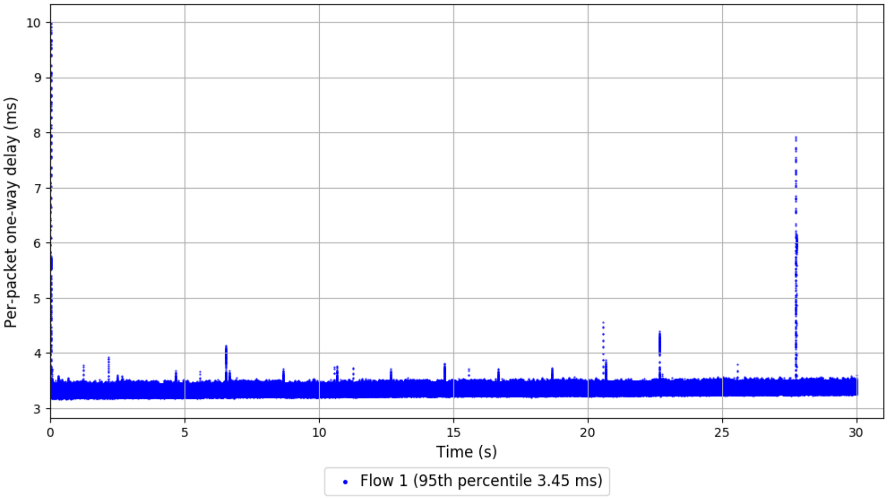




```
Run 7: Statistics of TaoVA-100x

Start at: 2018-05-30 10:23:09
End at: 2018-05-30 10:23:39
Local clock offset: -3.447 ms
Remote clock offset: -1.971 ms

# Below is generated by plot.py at 2018-05-30 11:45:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.02 Mbit/s
95th percentile per-packet one-way delay: 3.450 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 90.02 Mbit/s
95th percentile per-packet one-way delay: 3.450 ms
Loss rate: 0.00%
```

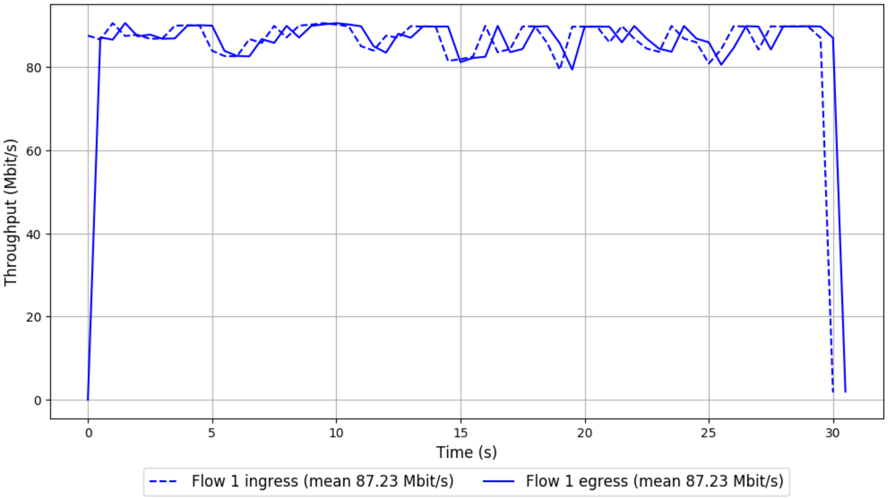
Run 7: Report of TaoVA-100x — Data Link

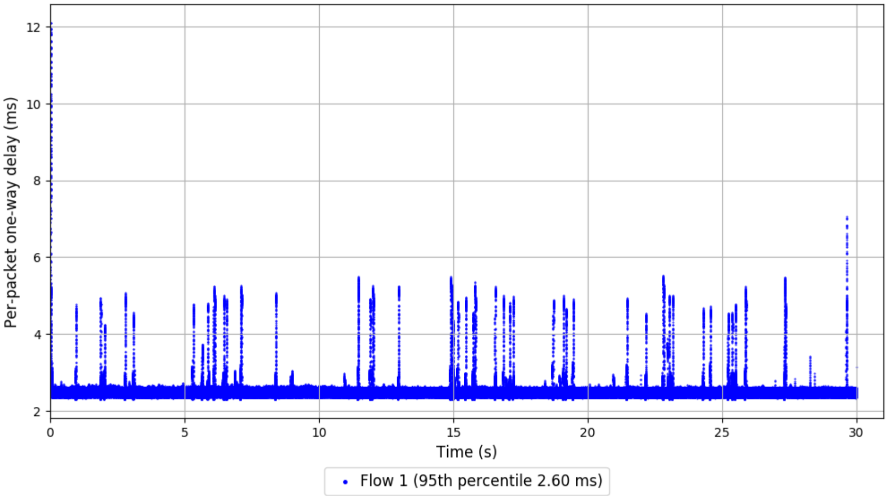




```
Run 8: Statistics of TaoVA-100x

Start at: 2018-05-30 10:41:08
End at: 2018-05-30 10:41:38
Local clock offset: -1.705 ms
Remote clock offset: -2.007 ms

# Below is generated by plot.py at 2018-05-30 11:45:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.23 Mbit/s
95th percentile per-packet one-way delay: 2.597 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 87.23 Mbit/s
95th percentile per-packet one-way delay: 2.597 ms
Loss rate: 0.00%
```

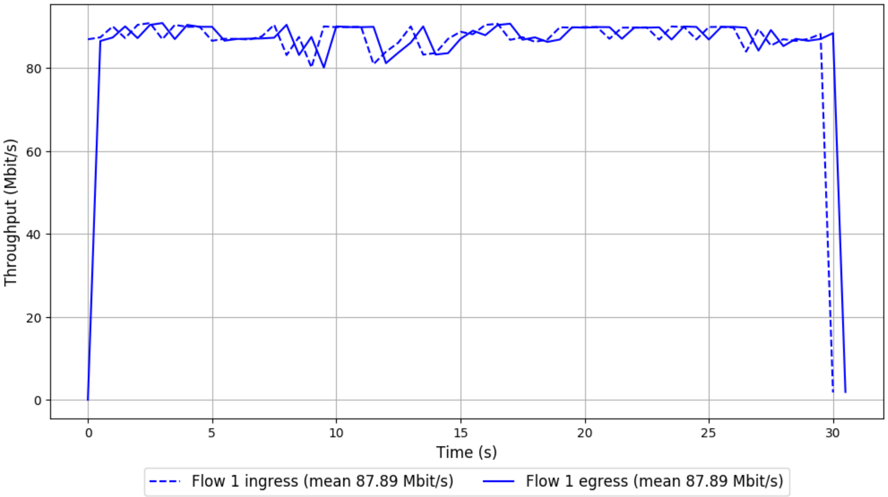
Run 8: Report of TaoVA-100x — Data Link

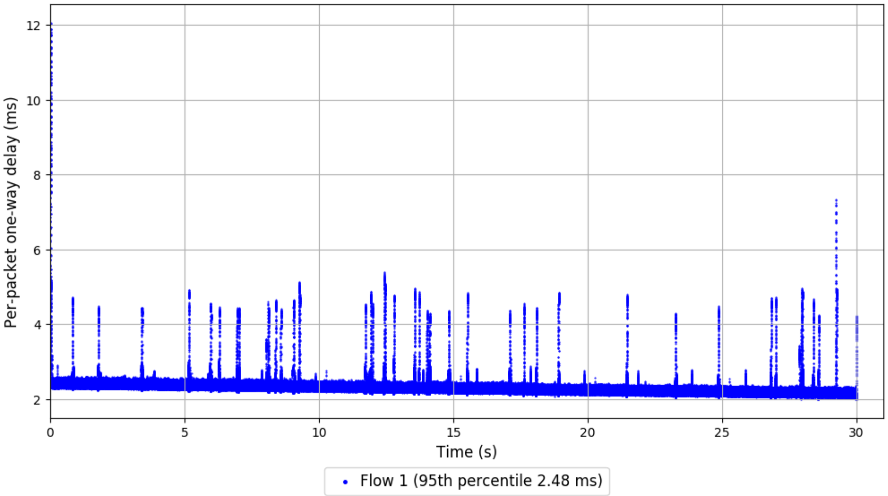




```
Run 9: Statistics of TaoVA-100x

Start at: 2018-05-30 10:59:03
End at: 2018-05-30 10:59:33
Local clock offset: -1.61 ms
Remote clock offset: 6.608 ms

# Below is generated by plot.py at 2018-05-30 11:47:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.89 Mbit/s
95th percentile per-packet one-way delay: 2.484 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 87.89 Mbit/s
95th percentile per-packet one-way delay: 2.484 ms
Loss rate: 0.00%
```

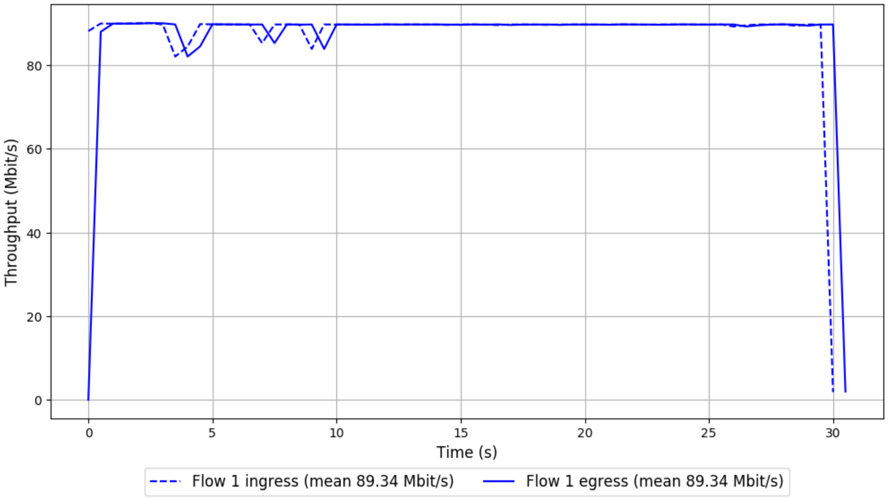
Run 9: Report of TaoVA-100x — Data Link

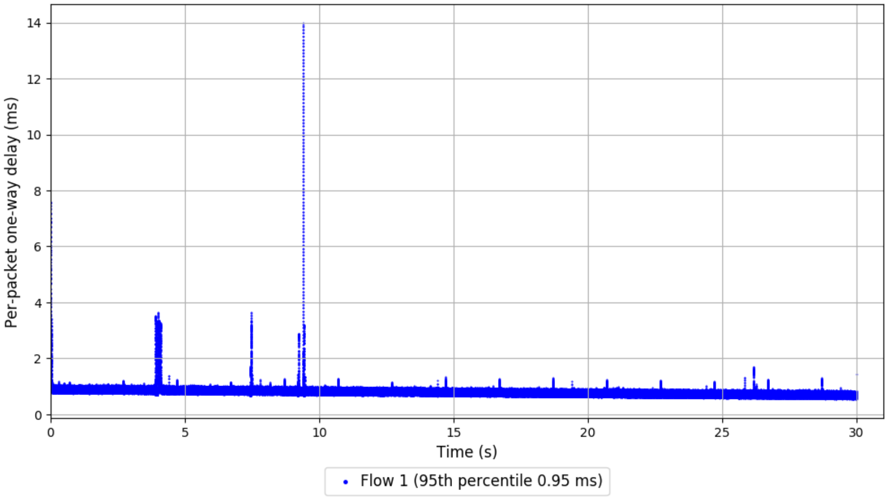




```
Run 10: Statistics of TaoVA-100x

Start at: 2018-05-30 11:16:57
End at: 2018-05-30 11:17:27
Local clock offset: -5.851 ms
Remote clock offset: 12.481 ms

# Below is generated by plot.py at 2018-05-30 11:47:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.34 Mbit/s
95th percentile per-packet one-way delay: 0.947 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.34 Mbit/s
95th percentile per-packet one-way delay: 0.947 ms
Loss rate: 0.00%
```

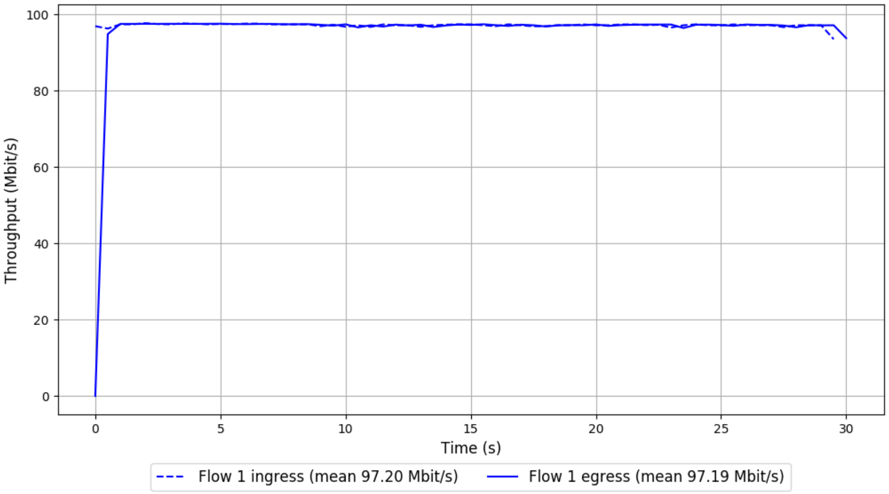
Run 10: Report of TaoVA-100x — Data Link

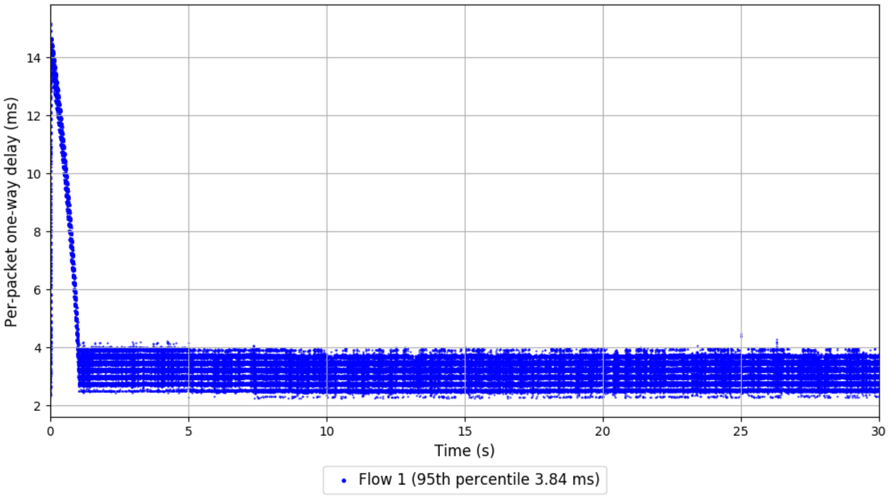




```
Run 1: Statistics of TCP Vegas

Start at: 2018-05-30 08:42:24
End at: 2018-05-30 08:42:54
Local clock offset: -3.24 ms
Remote clock offset: -2.939 ms

# Below is generated by plot.py at 2018-05-30 11:47:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.19 Mbit/s
95th percentile per-packet one-way delay: 3.837 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.19 Mbit/s
95th percentile per-packet one-way delay: 3.837 ms
Loss rate: 0.01%
```

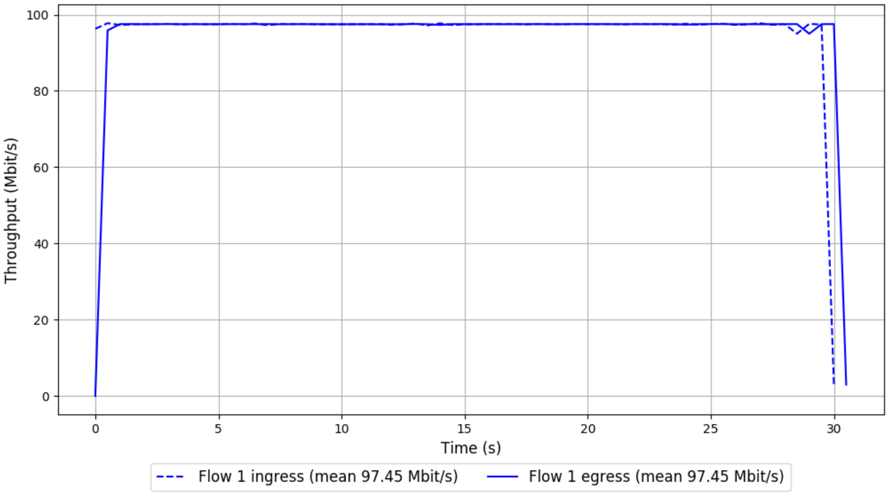
Run 1: Report of TCP Vegas — Data Link

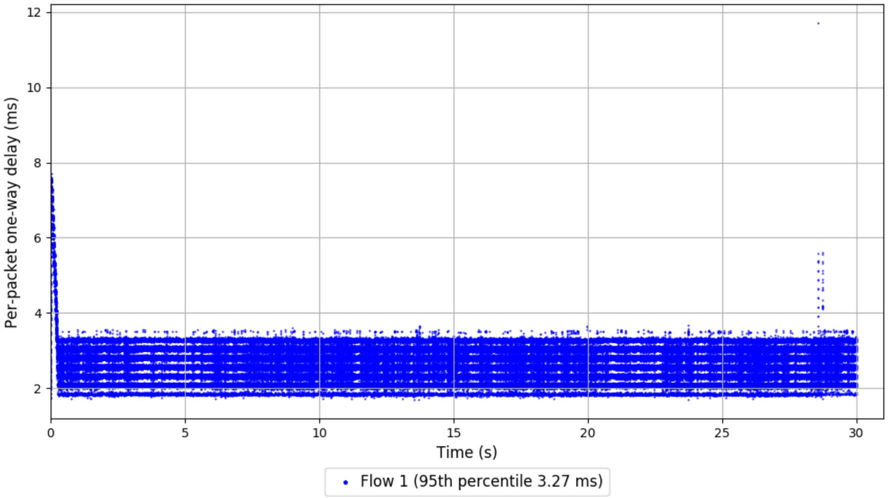




```
Run 2: Statistics of TCP Vegas

Start at: 2018-05-30 09:00:18
End at: 2018-05-30 09:00:48
Local clock offset: -3.756 ms
Remote clock offset: -2.768 ms

# Below is generated by plot.py at 2018-05-30 11:47:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.45 Mbit/s
95th percentile per-packet one-way delay: 3.272 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.45 Mbit/s
95th percentile per-packet one-way delay: 3.272 ms
Loss rate: 0.00%
```

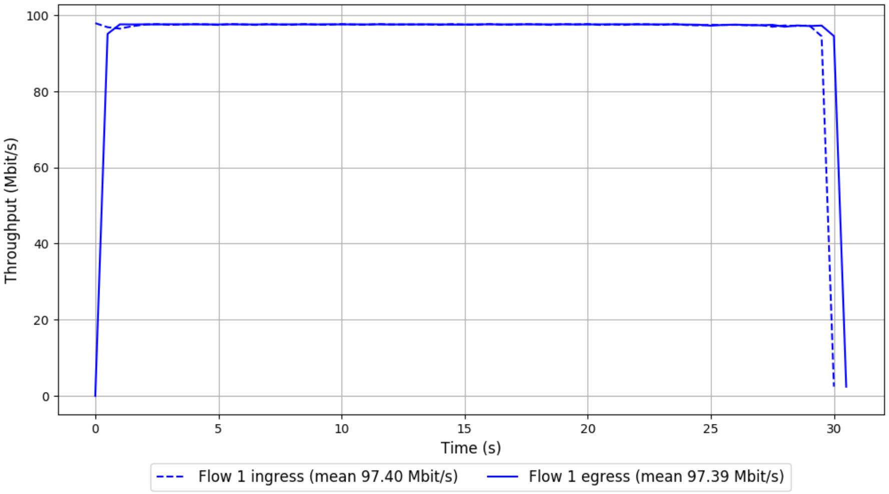
Run 2: Report of TCP Vegas — Data Link

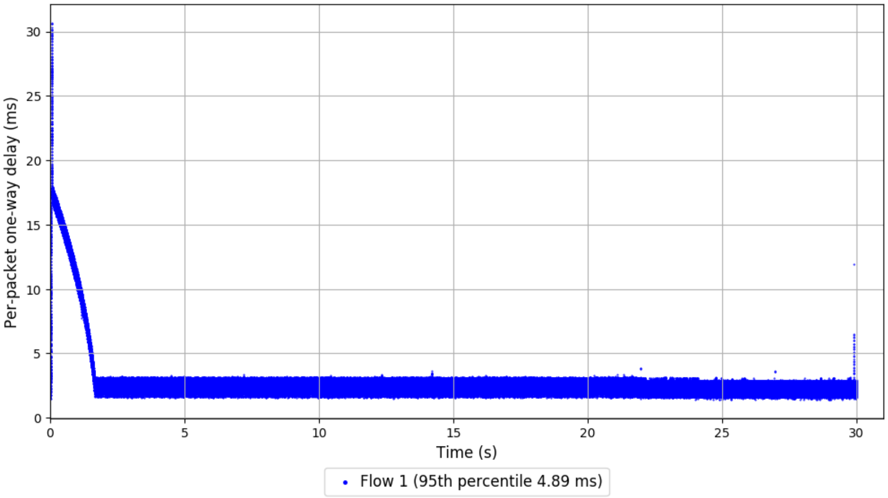




```
Run 3: Statistics of TCP Vegas

Start at: 2018-05-30 09:18:13
End at: 2018-05-30 09:18:43
Local clock offset: -1.836 ms
Remote clock offset: -2.348 ms

# Below is generated by plot.py at 2018-05-30 11:47:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.39 Mbit/s
95th percentile per-packet one-way delay: 4.887 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.39 Mbit/s
95th percentile per-packet one-way delay: 4.887 ms
Loss rate: 0.01%
```

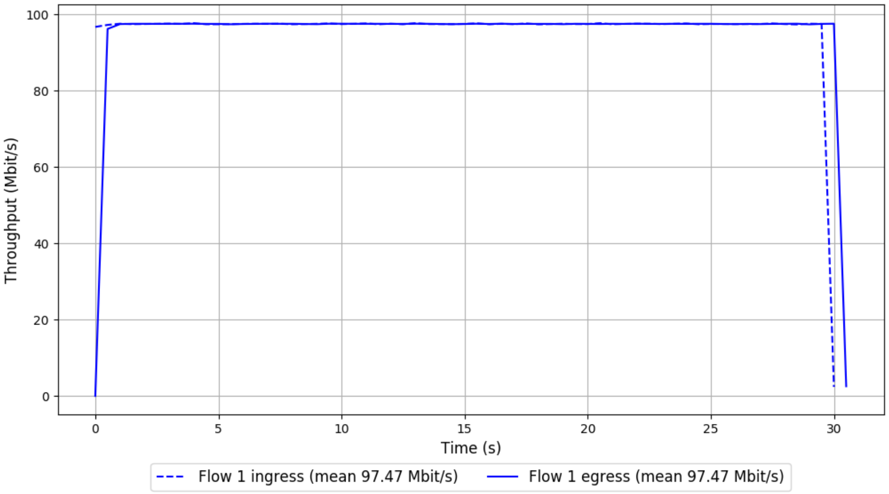
Run 3: Report of TCP Vegas — Data Link

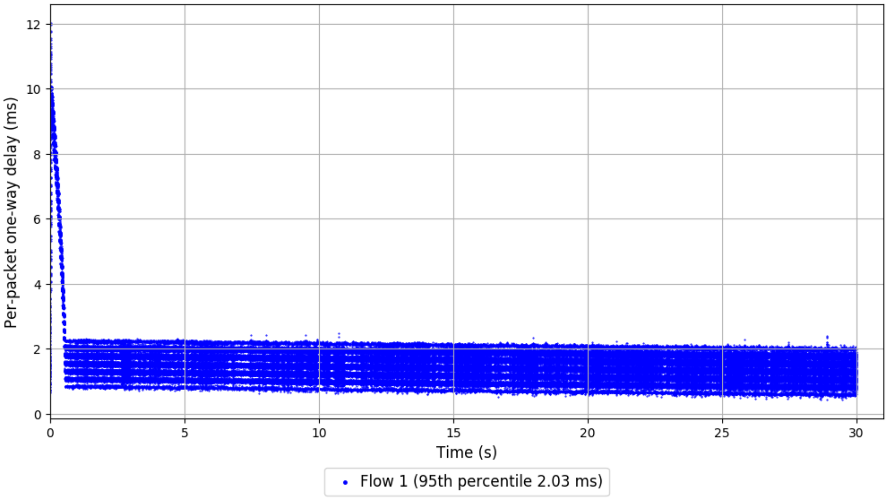




```
Run 4: Statistics of TCP Vegas

Start at: 2018-05-30 09:36:13
End at: 2018-05-30 09:36:43
Local clock offset: -2.722 ms
Remote clock offset: -2.075 ms

# Below is generated by plot.py at 2018-05-30 11:47:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 2.030 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 2.030 ms
Loss rate: 0.00%
```

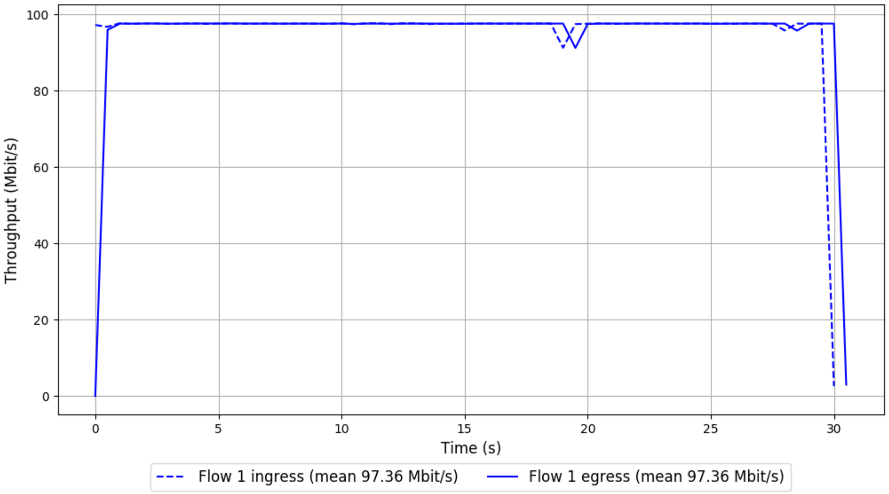
Run 4: Report of TCP Vegas — Data Link

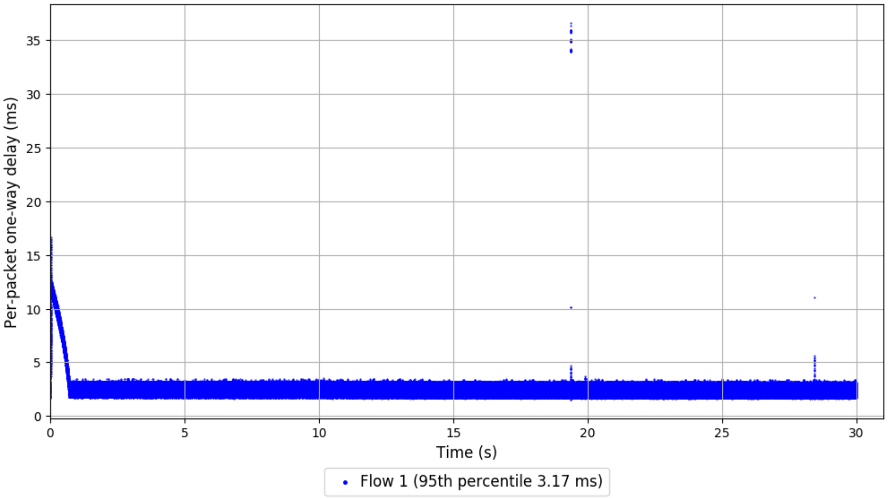




```
Run 5: Statistics of TCP Vegas

Start at: 2018-05-30 09:54:06
End at: 2018-05-30 09:54:36
Local clock offset: -8.344 ms
Remote clock offset: -1.953 ms

# Below is generated by plot.py at 2018-05-30 11:47:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.36 Mbit/s
95th percentile per-packet one-way delay: 3.171 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.36 Mbit/s
95th percentile per-packet one-way delay: 3.171 ms
Loss rate: 0.00%
```

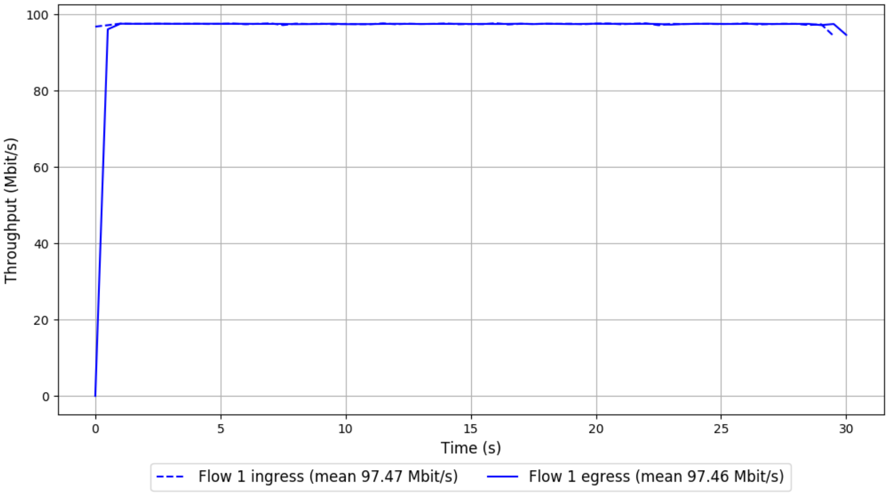
Run 5: Report of TCP Vegas — Data Link

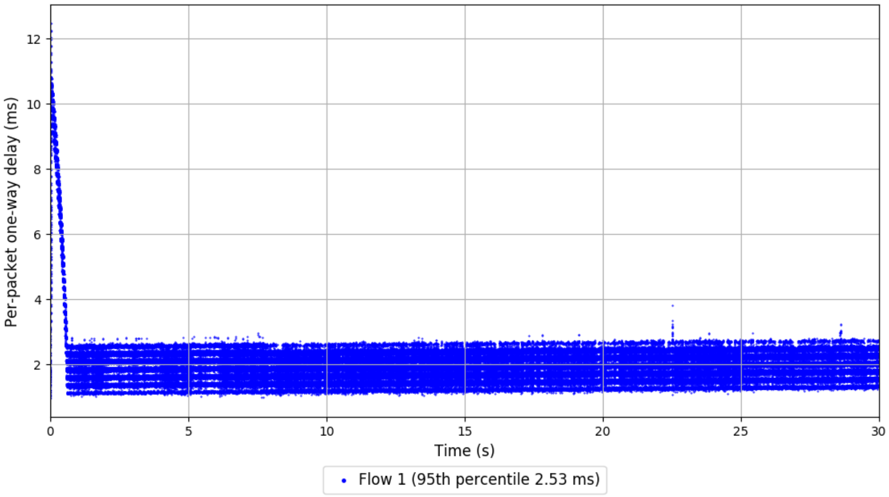




```
Run 6: Statistics of TCP Vegas

Start at: 2018-05-30 10:12:00
End at: 2018-05-30 10:12:30
Local clock offset: -5.371 ms
Remote clock offset: -1.86 ms

# Below is generated by plot.py at 2018-05-30 11:47:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 2.534 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 2.534 ms
Loss rate: 0.00%
```

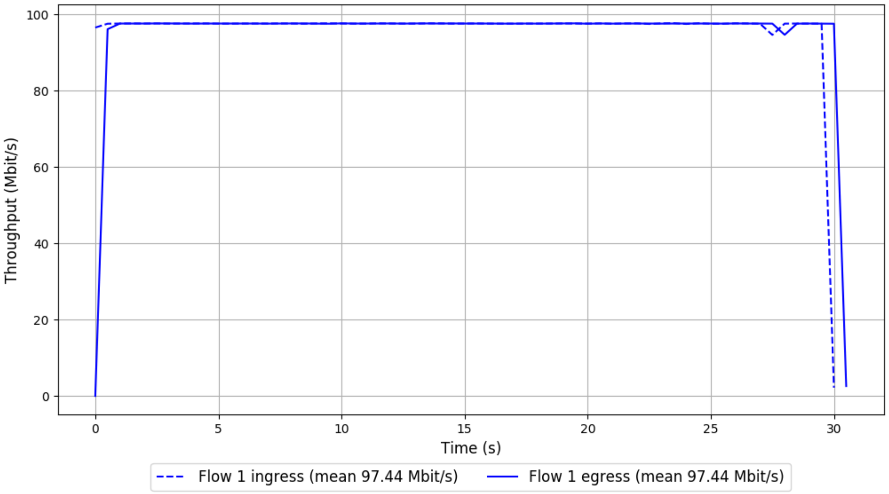
Run 6: Report of TCP Vegas — Data Link

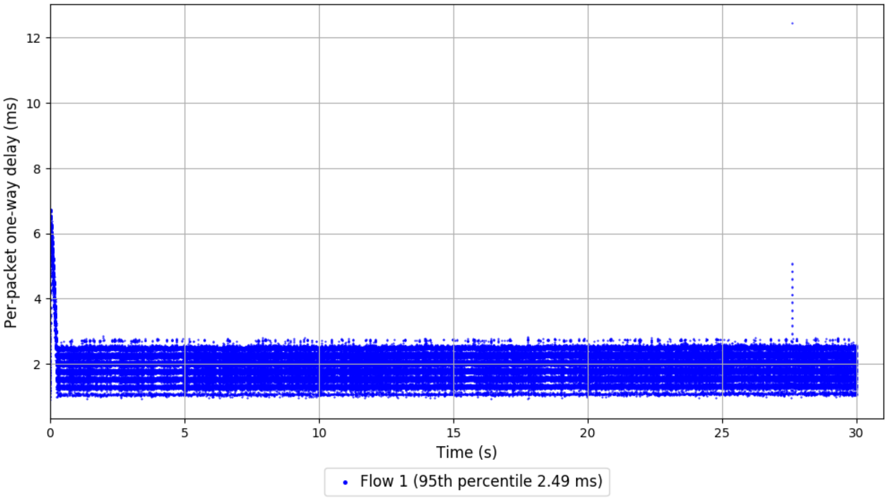




```
Run 7: Statistics of TCP Vegas

Start at: 2018-05-30 10:29:59
End at: 2018-05-30 10:30:29
Local clock offset: -1.925 ms
Remote clock offset: -2.026 ms

# Below is generated by plot.py at 2018-05-30 11:47:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.44 Mbit/s
95th percentile per-packet one-way delay: 2.487 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.44 Mbit/s
95th percentile per-packet one-way delay: 2.487 ms
Loss rate: 0.00%
```

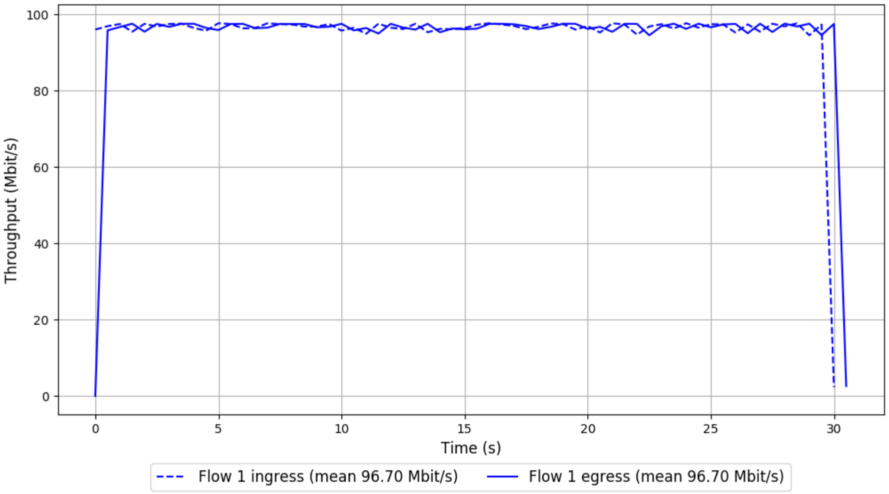
Run 7: Report of TCP Vegas — Data Link

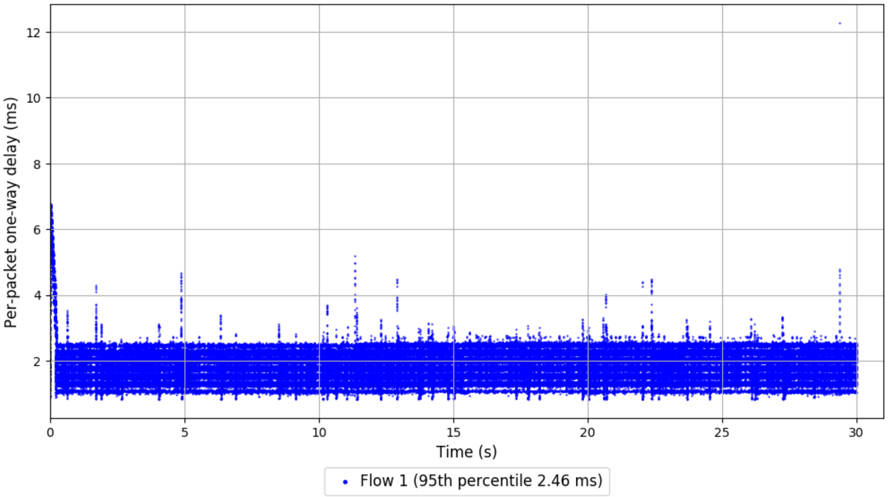




```
Run 8: Statistics of TCP Vegas

Start at: 2018-05-30 10:47:54
End at: 2018-05-30 10:48:24
Local clock offset: -1.673 ms
Remote clock offset: -1.977 ms

# Below is generated by plot.py at 2018-05-30 11:47:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.70 Mbit/s
95th percentile per-packet one-way delay: 2.458 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.70 Mbit/s
95th percentile per-packet one-way delay: 2.458 ms
Loss rate: 0.00%
```

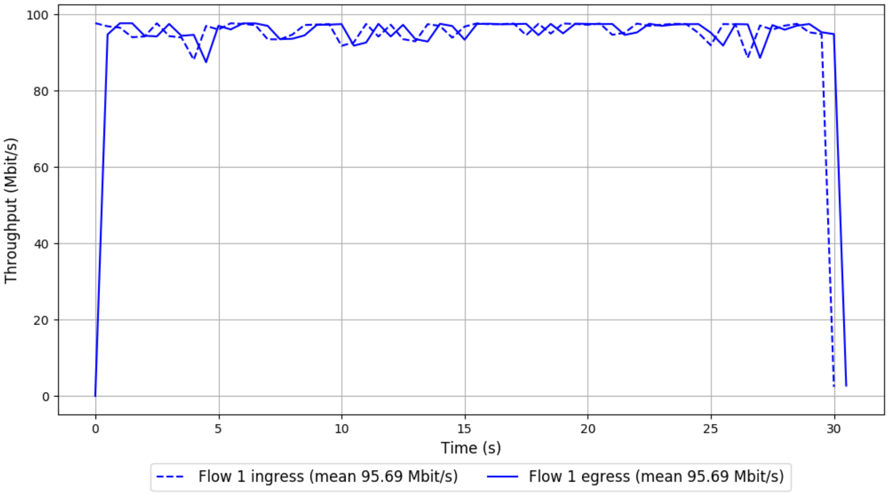
Run 8: Report of TCP Vegas — Data Link

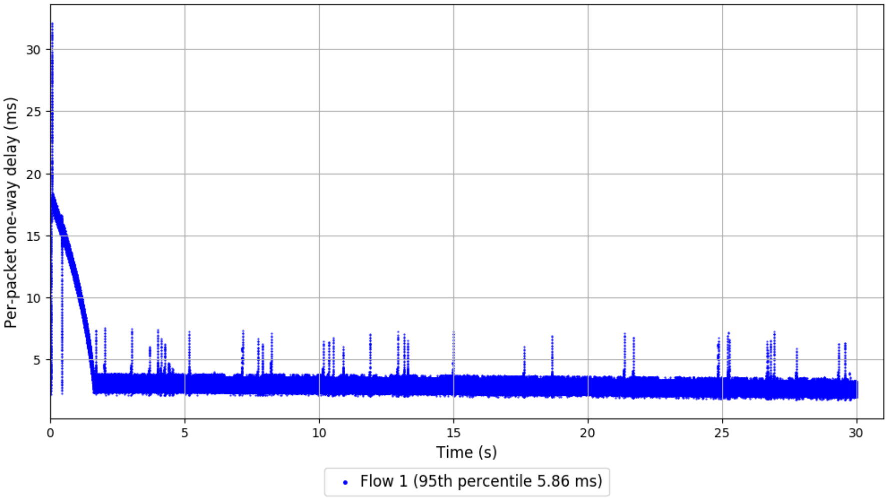




```
Run 9: Statistics of TCP Vegas

Start at: 2018-05-30 11:05:48
End at: 2018-05-30 11:06:18
Local clock offset: -1.433 ms
Remote clock offset: 9.478 ms

# Below is generated by plot.py at 2018-05-30 11:47:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.69 Mbit/s
95th percentile per-packet one-way delay: 5.856 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.69 Mbit/s
95th percentile per-packet one-way delay: 5.856 ms
Loss rate: 0.00%
```

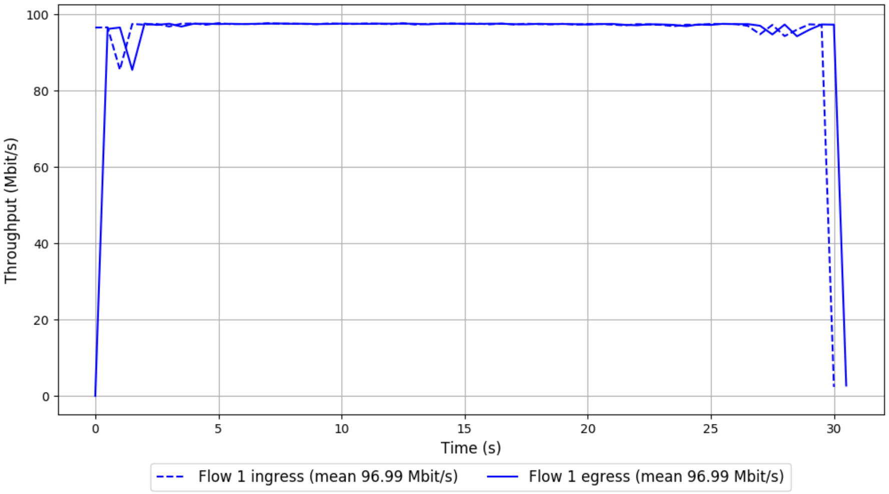
Run 9: Report of TCP Vegas — Data Link

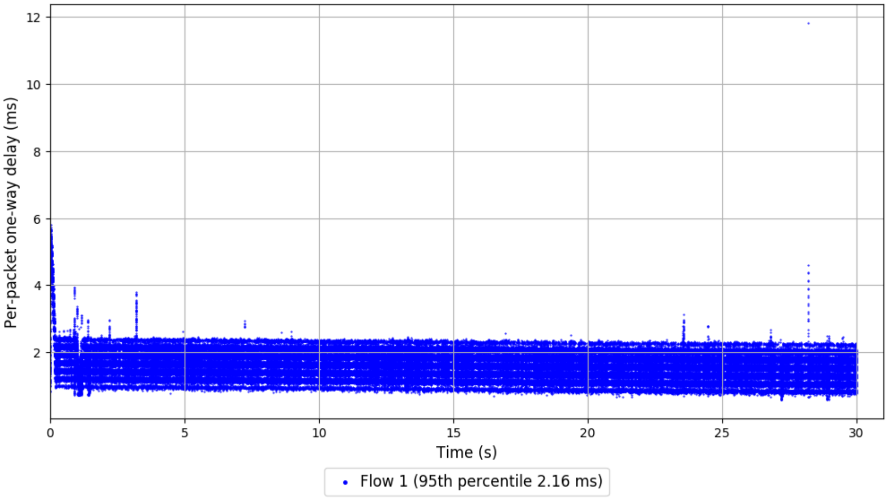




```
Run 10: Statistics of TCP Vegas

Start at: 2018-05-30 11:23:40
End at: 2018-05-30 11:24:10
Local clock offset: -7.05 ms
Remote clock offset: 13.781 ms

# Below is generated by plot.py at 2018-05-30 11:48:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.99 Mbit/s
95th percentile per-packet one-way delay: 2.161 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.99 Mbit/s
95th percentile per-packet one-way delay: 2.161 ms
Loss rate: 0.00%
```

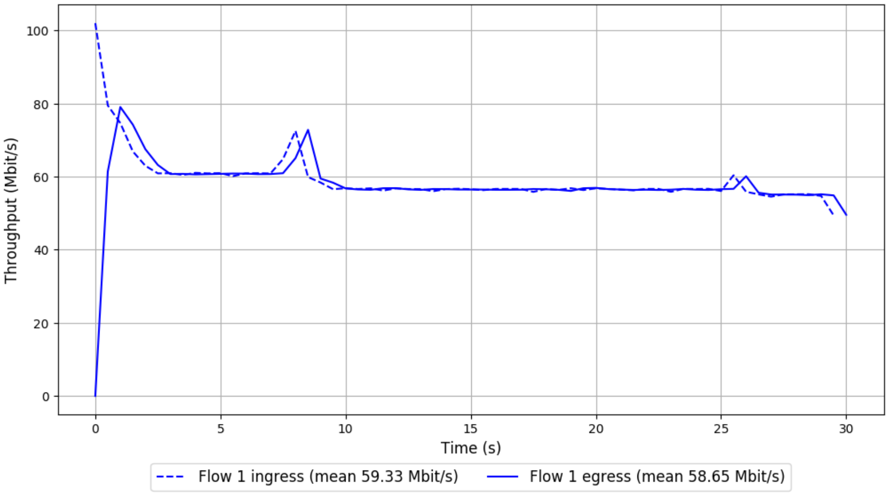
Run 10: Report of TCP Vegas — Data Link

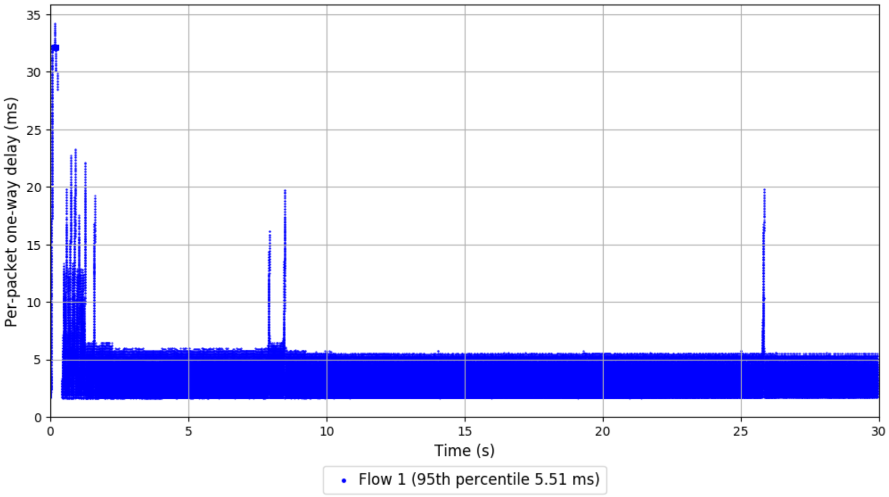




```
Run 1: Statistics of Verus

Start at: 2018-05-30 08:39:00
End at: 2018-05-30 08:39:30
Local clock offset: -4.463 ms
Remote clock offset: -3.017 ms

# Below is generated by plot.py at 2018-05-30 11:48:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.65 Mbit/s
95th percentile per-packet one-way delay: 5.508 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 58.65 Mbit/s
95th percentile per-packet one-way delay: 5.508 ms
Loss rate: 1.14%
```

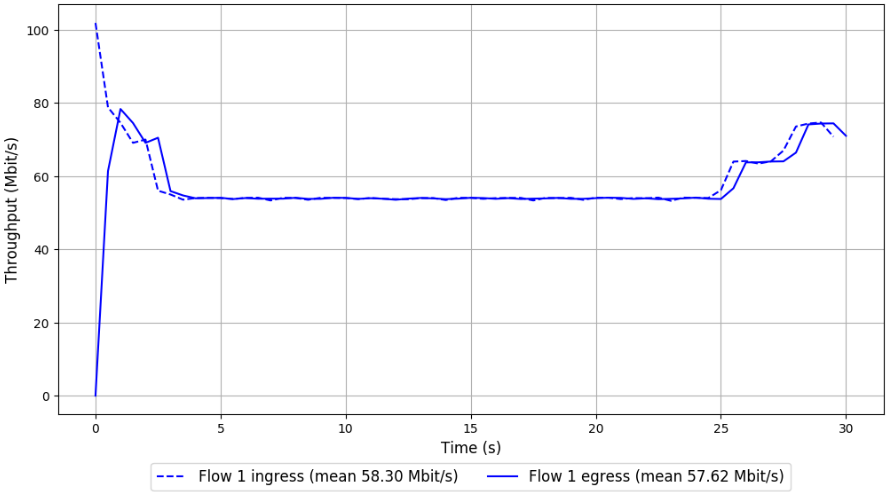
Run 1: Report of Verus — Data Link

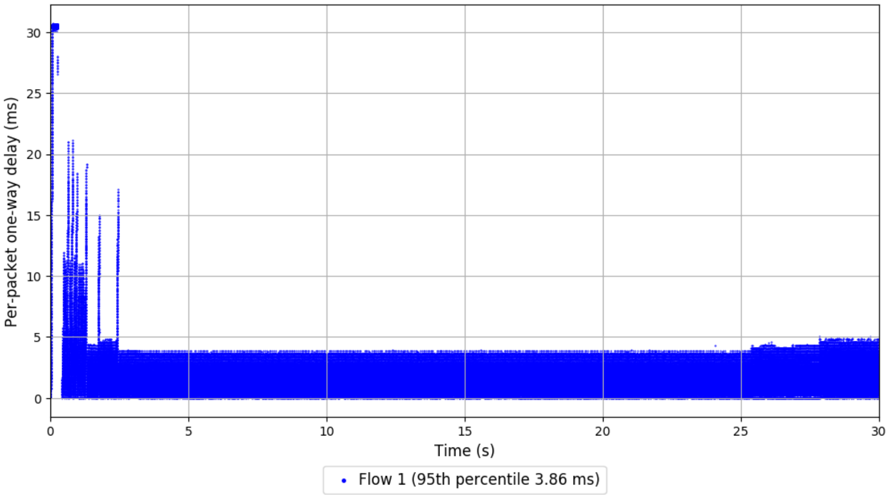




```
Run 2: Statistics of Verus

Start at: 2018-05-30 08:56:53
End at: 2018-05-30 08:57:23
Local clock offset: -2.112 ms
Remote clock offset: -2.805 ms

# Below is generated by plot.py at 2018-05-30 11:48:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.62 Mbit/s
95th percentile per-packet one-way delay: 3.859 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 57.62 Mbit/s
95th percentile per-packet one-way delay: 3.859 ms
Loss rate: 1.16%
```

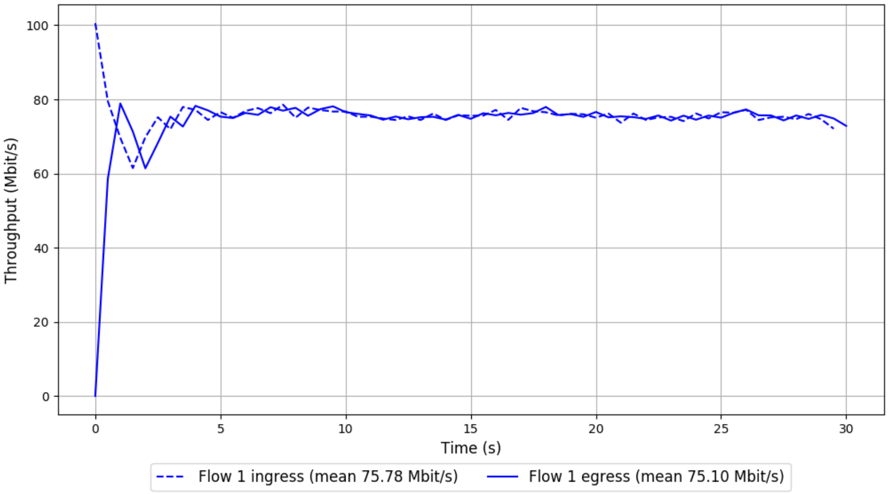
Run 2: Report of Verus — Data Link

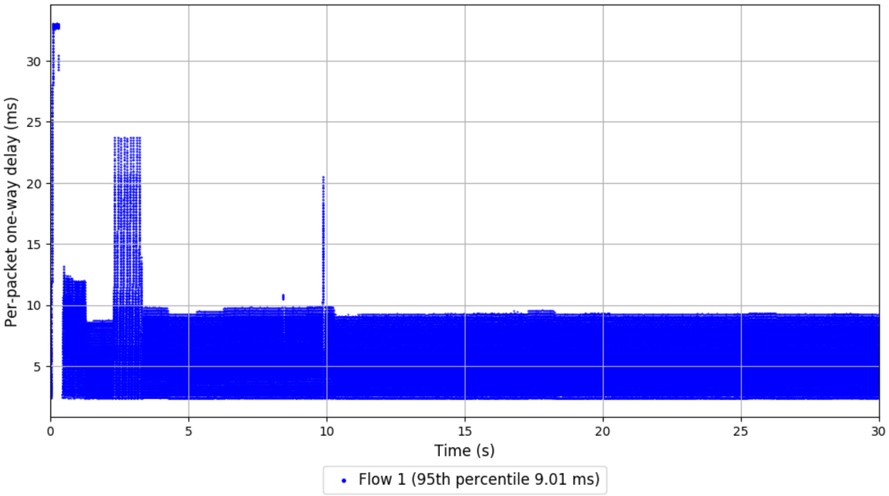




```
Run 3: Statistics of Verus

Start at: 2018-05-30 09:14:47
End at: 2018-05-30 09:15:17
Local clock offset: -2.714 ms
Remote clock offset: -2.342 ms

# Below is generated by plot.py at 2018-05-30 11:48:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.10 Mbit/s
95th percentile per-packet one-way delay: 9.008 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 75.10 Mbit/s
95th percentile per-packet one-way delay: 9.008 ms
Loss rate: 0.89%
```

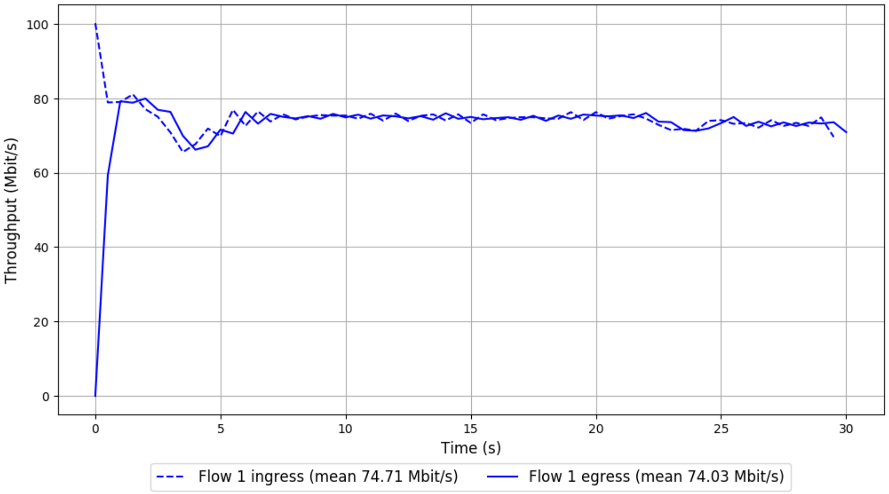
Run 3: Report of Verus — Data Link

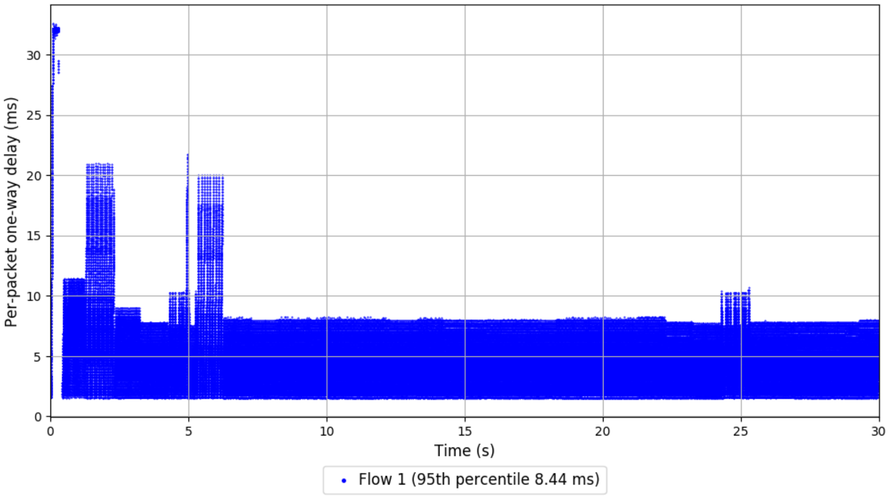




```
Run 4: Statistics of Verus

Start at: 2018-05-30 09:32:48
End at: 2018-05-30 09:33:18
Local clock offset: -1.914 ms
Remote clock offset: -2.033 ms

# Below is generated by plot.py at 2018-05-30 11:48:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.03 Mbit/s
95th percentile per-packet one-way delay: 8.441 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 74.03 Mbit/s
95th percentile per-packet one-way delay: 8.441 ms
Loss rate: 0.91%
```

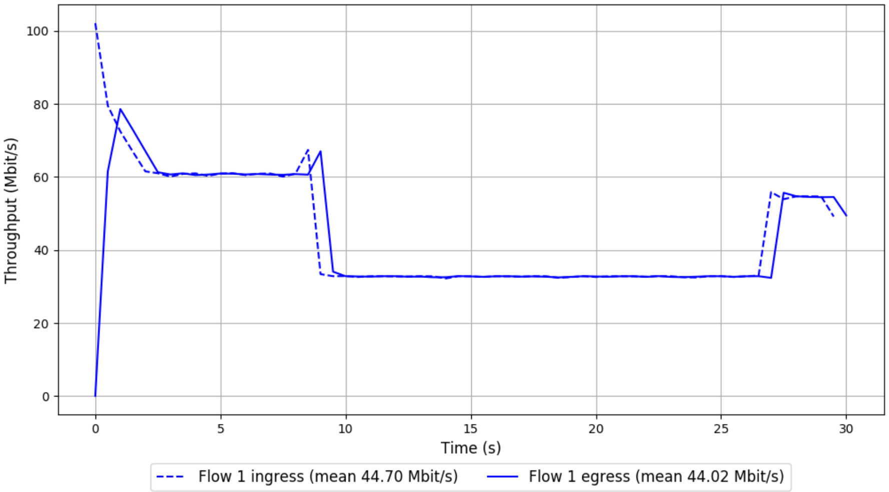
Run 4: Report of Verus — Data Link

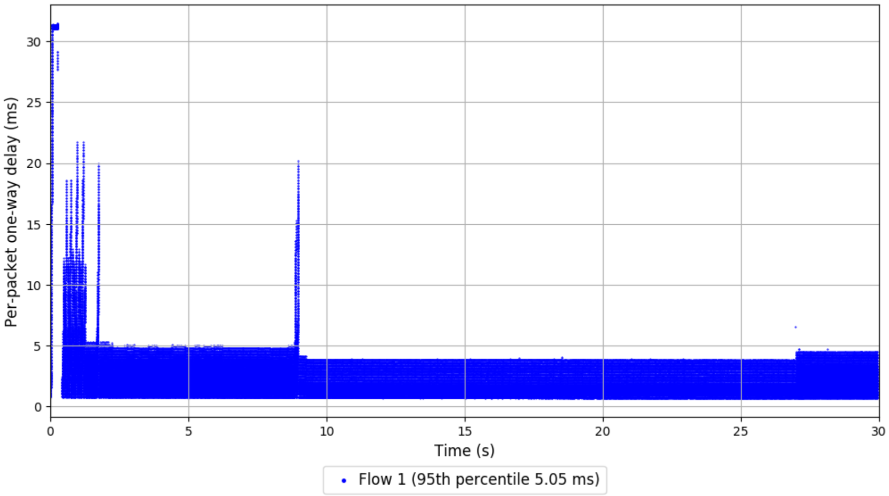




```
Run 5: Statistics of Verus

Start at: 2018-05-30 09:50:43
End at: 2018-05-30 09:51:13
Local clock offset: -7.015 ms
Remote clock offset: -1.944 ms

# Below is generated by plot.py at 2018-05-30 11:48:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.02 Mbit/s
95th percentile per-packet one-way delay: 5.052 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 44.02 Mbit/s
95th percentile per-packet one-way delay: 5.052 ms
Loss rate: 1.52%
```

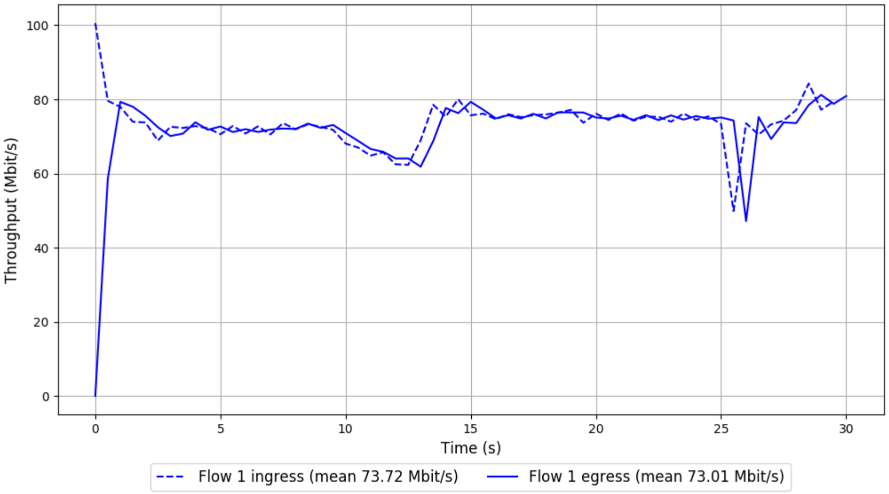
Run 5: Report of Verus — Data Link

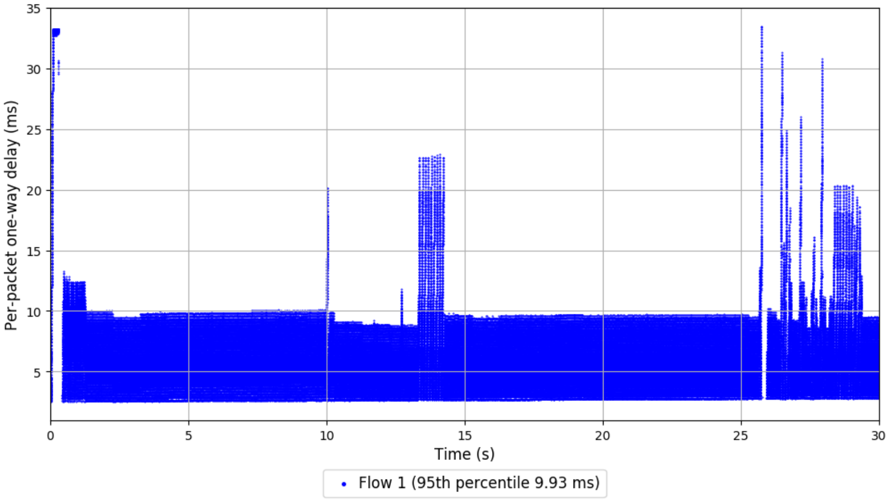




```
Run 6: Statistics of Verus

Start at: 2018-05-30 10:08:35
End at: 2018-05-30 10:09:05
Local clock offset: -7.193 ms
Remote clock offset: -1.813 ms

# Below is generated by plot.py at 2018-05-30 11:48:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.01 Mbit/s
95th percentile per-packet one-way delay: 9.928 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 73.01 Mbit/s
95th percentile per-packet one-way delay: 9.928 ms
Loss rate: 0.94%
```

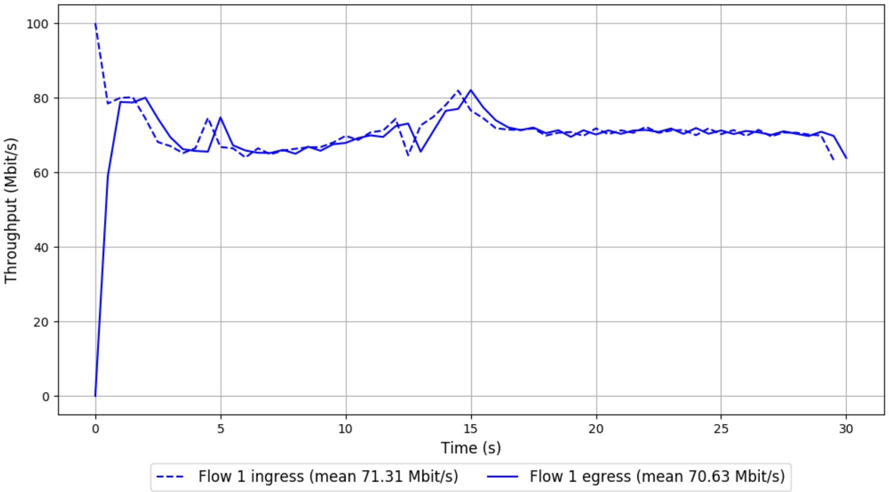
Run 6: Report of Verus — Data Link

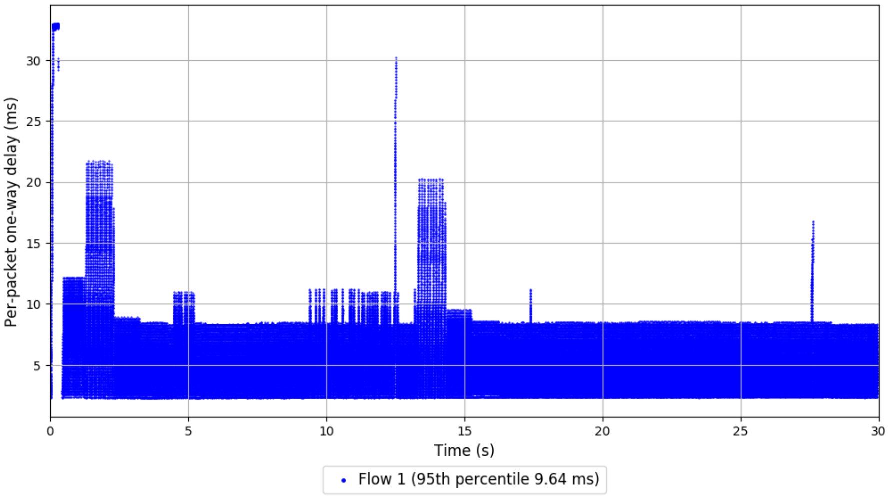




```
Run 7: Statistics of Verus

Start at: 2018-05-30 10:26:34
End at: 2018-05-30 10:27:04
Local clock offset: -2.194 ms
Remote clock offset: -2.013 ms

# Below is generated by plot.py at 2018-05-30 11:48:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.63 Mbit/s
95th percentile per-packet one-way delay: 9.638 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 70.63 Mbit/s
95th percentile per-packet one-way delay: 9.638 ms
Loss rate: 0.95%
```

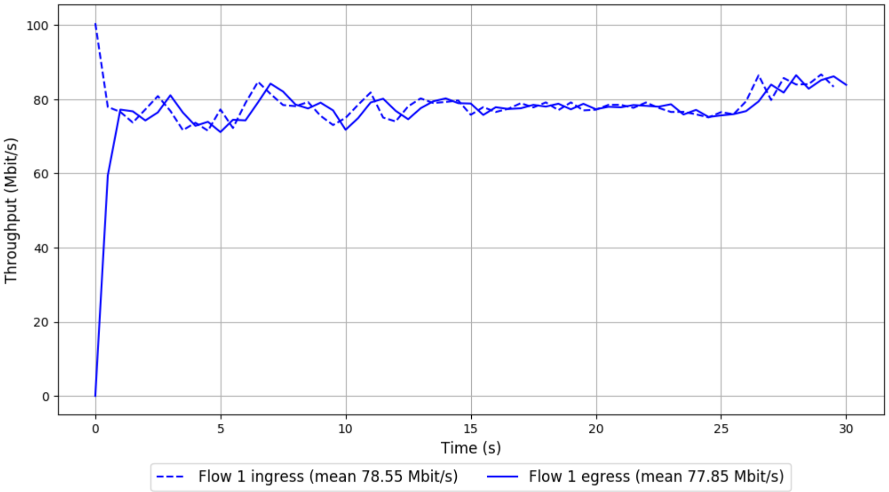
Run 7: Report of Verus — Data Link

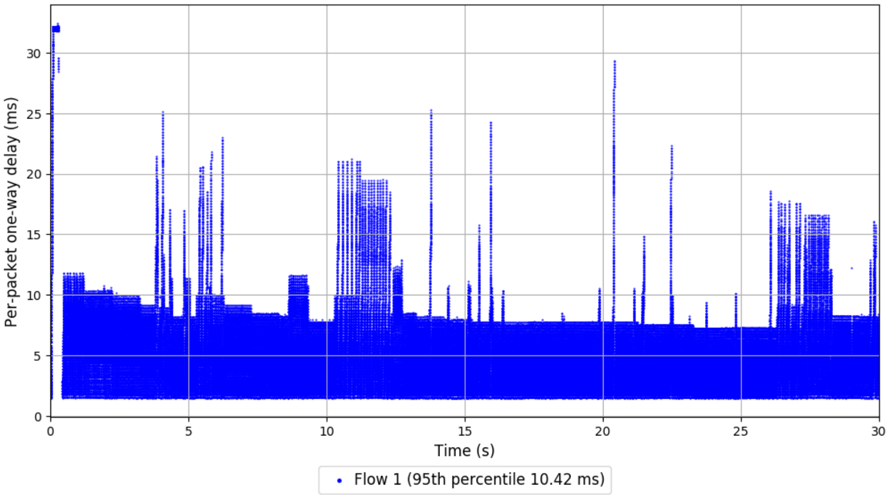




```
Run 8: Statistics of Verus

Start at: 2018-05-30 10:44:29
End at: 2018-05-30 10:44:59
Local clock offset: -0.897 ms
Remote clock offset: -2.039 ms

# Below is generated by plot.py at 2018-05-30 11:48:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.85 Mbit/s
95th percentile per-packet one-way delay: 10.424 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 77.85 Mbit/s
95th percentile per-packet one-way delay: 10.424 ms
Loss rate: 0.87%
```

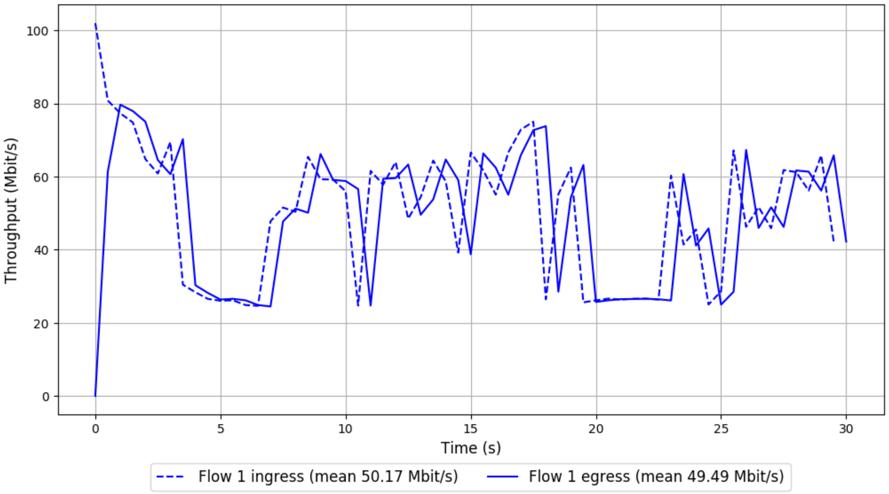
Run 8: Report of Verus — Data Link

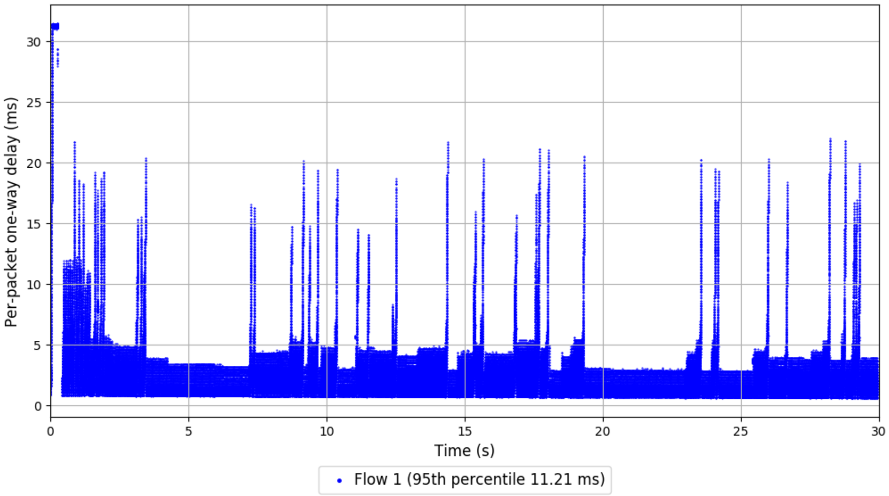




```
Run 9: Statistics of Verus

Start at: 2018-05-30 11:02:24
End at: 2018-05-30 11:02:54
Local clock offset: -1.491 ms
Remote clock offset: 8.271 ms

# Below is generated by plot.py at 2018-05-30 11:48:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.49 Mbit/s
95th percentile per-packet one-way delay: 11.209 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 49.49 Mbit/s
95th percentile per-packet one-way delay: 11.209 ms
Loss rate: 1.35%
```

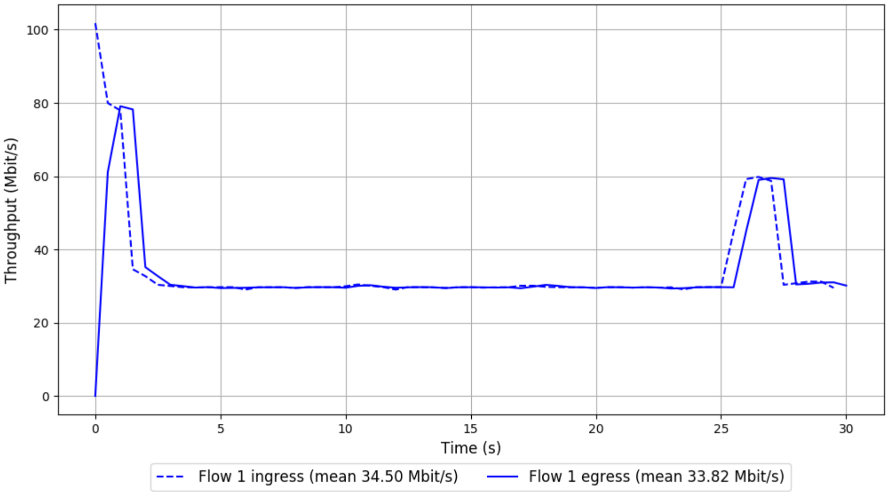
Run 9: Report of Verus — Data Link

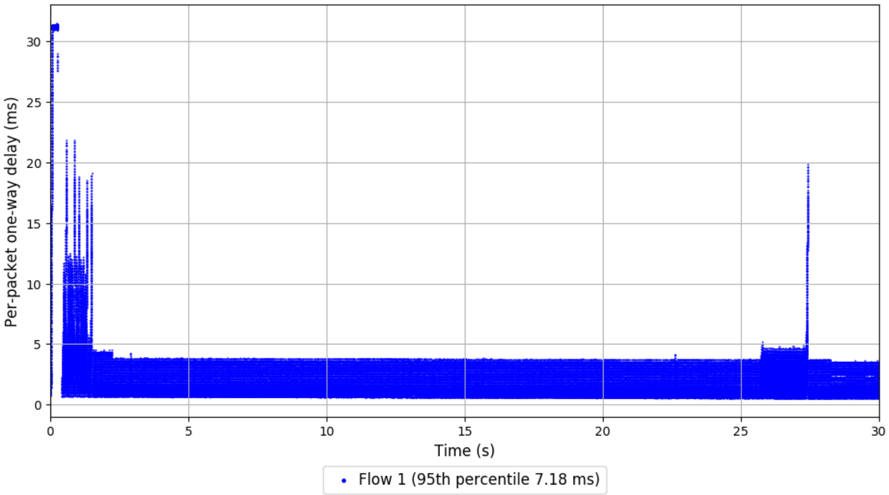




```
Run 10: Statistics of Verus

Start at: 2018-05-30 11:20:17
End at: 2018-05-30 11:20:47
Local clock offset: -6.57 ms
Remote clock offset: 13.051 ms

# Below is generated by plot.py at 2018-05-30 11:48:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 33.82 Mbit/s
95th percentile per-packet one-way delay: 7.183 ms
Loss rate: 1.96%
-- Flow 1:
Average throughput: 33.82 Mbit/s
95th percentile per-packet one-way delay: 7.183 ms
Loss rate: 1.96%
```

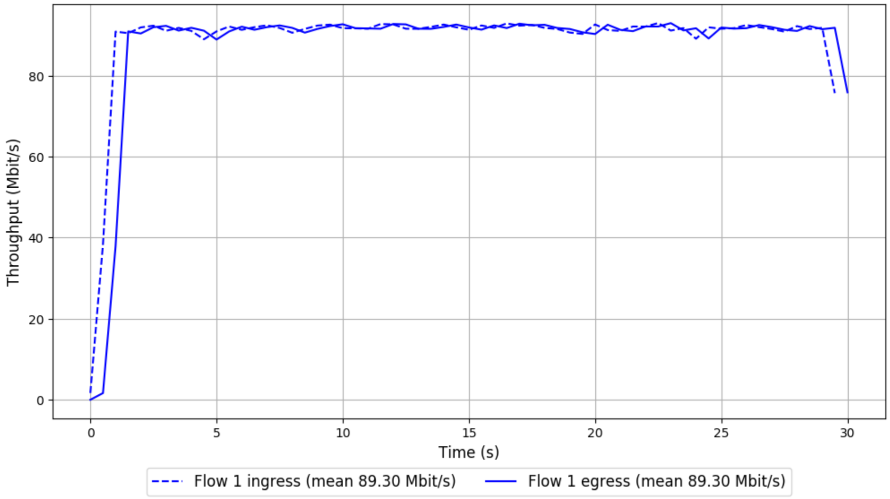
Run 10: Report of Verus — Data Link

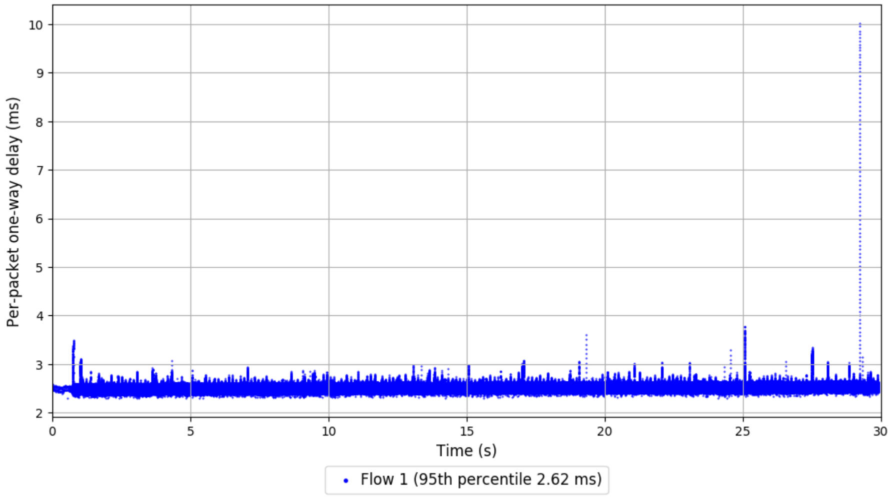




```
Run 1: Statistics of PCC-Vivace

Start at: 2018-05-30 08:40:06
End at: 2018-05-30 08:40:36
Local clock offset: -3.549 ms
Remote clock offset: -2.967 ms

# Below is generated by plot.py at 2018-05-30 11:49:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.30 Mbit/s
95th percentile per-packet one-way delay: 2.623 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 89.30 Mbit/s
95th percentile per-packet one-way delay: 2.623 ms
Loss rate: 0.01%
```

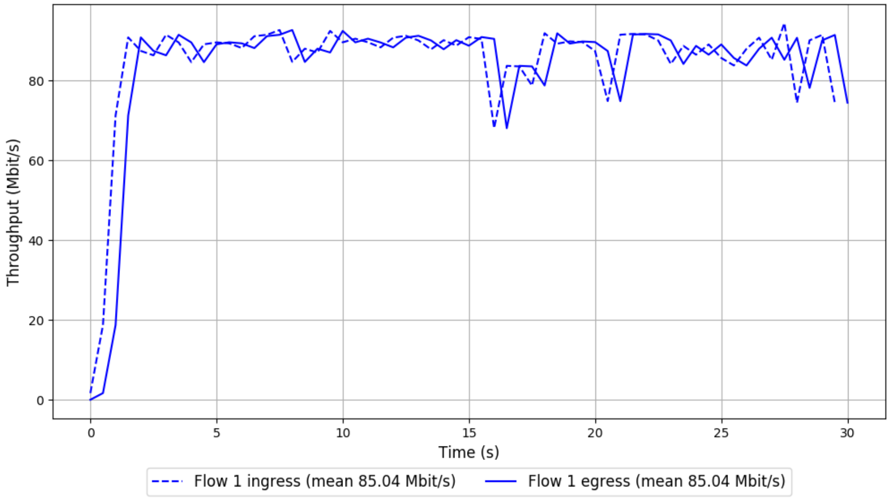
Run 1: Report of PCC-Vivace — Data Link

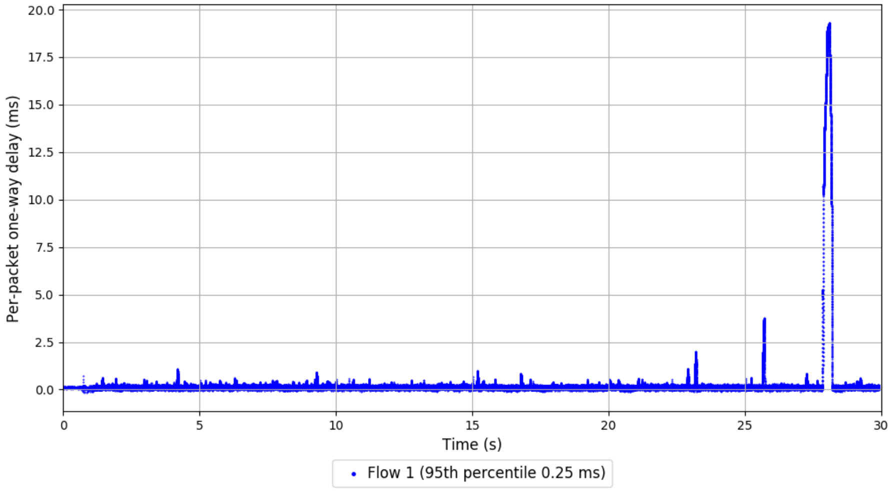




```
Run 2: Statistics of PCC-Vivace

Start at: 2018-05-30 08:58:00
End at: 2018-05-30 08:58:30
Local clock offset: -2.116 ms
Remote clock offset: -2.816 ms

# Below is generated by plot.py at 2018-05-30 11:49:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.04 Mbit/s
95th percentile per-packet one-way delay: 0.251 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.04 Mbit/s
95th percentile per-packet one-way delay: 0.251 ms
Loss rate: 0.00%
```

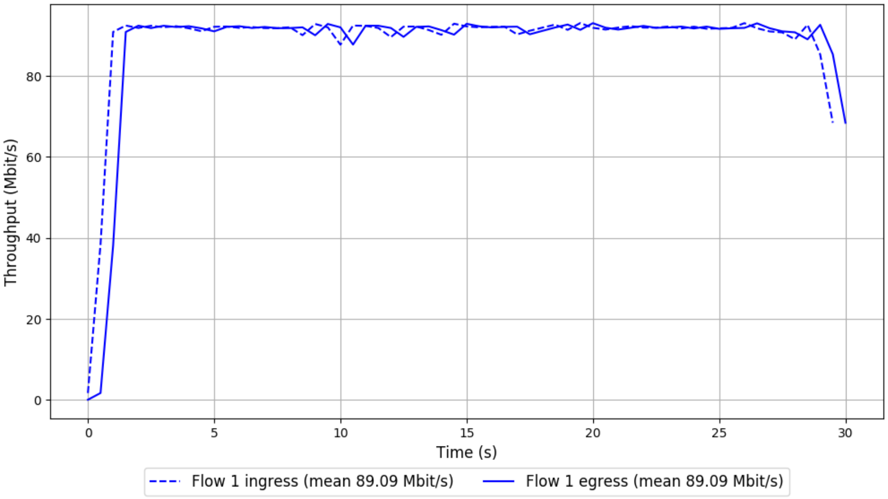
Run 2: Report of PCC-Vivace — Data Link

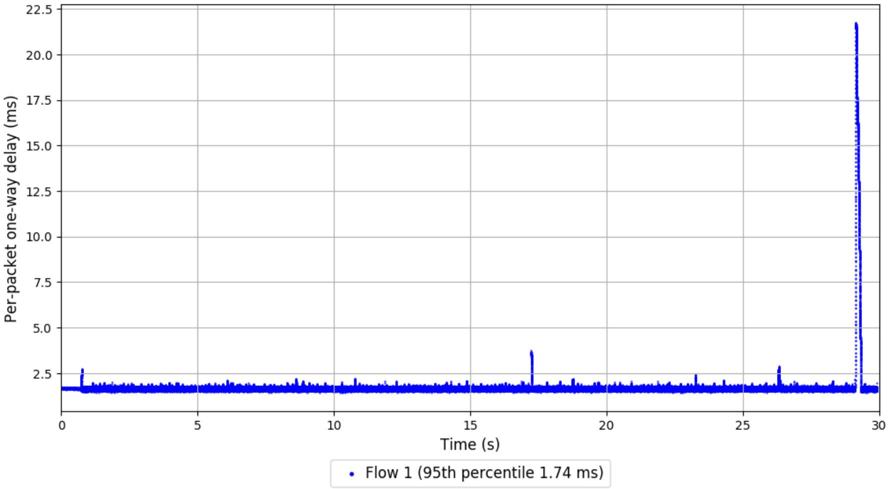




```
Run 3: Statistics of PCC-Vivace

Start at: 2018-05-30 09:15:55
End at: 2018-05-30 09:16:25
Local clock offset: -1.857 ms
Remote clock offset: -2.325 ms

# Below is generated by plot.py at 2018-05-30 11:49:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.09 Mbit/s
95th percentile per-packet one-way delay: 1.743 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.09 Mbit/s
95th percentile per-packet one-way delay: 1.743 ms
Loss rate: 0.00%
```

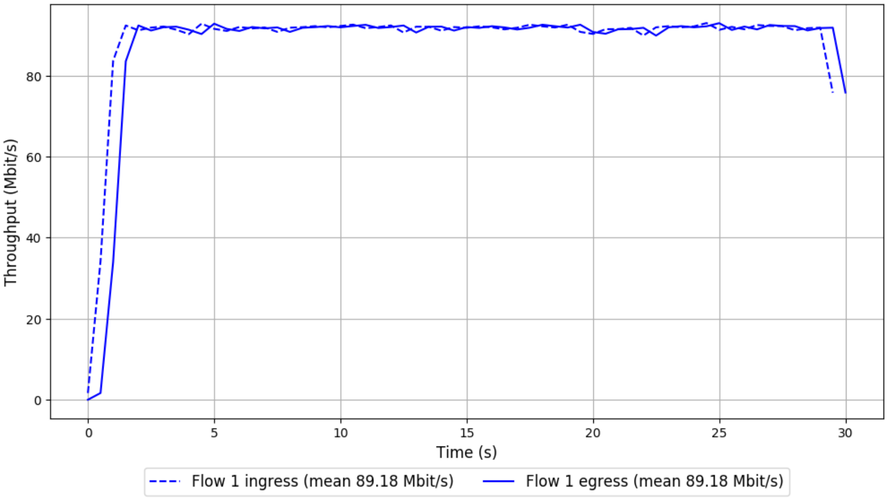
Run 3: Report of PCC-Vivace — Data Link

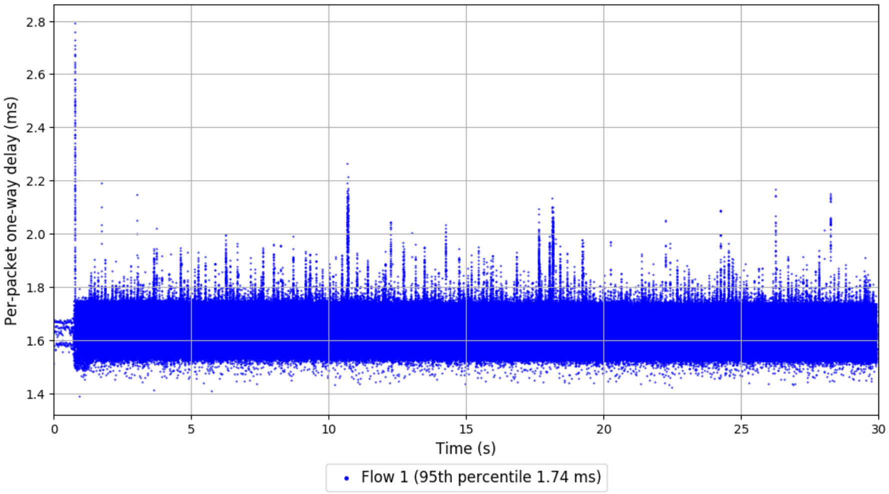




```
Run 4: Statistics of PCC-Vivace

Start at: 2018-05-30 09:33:55
End at: 2018-05-30 09:34:25
Local clock offset: -1.931 ms
Remote clock offset: -2.04 ms

# Below is generated by plot.py at 2018-05-30 11:49:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.18 Mbit/s
95th percentile per-packet one-way delay: 1.739 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.18 Mbit/s
95th percentile per-packet one-way delay: 1.739 ms
Loss rate: 0.00%
```

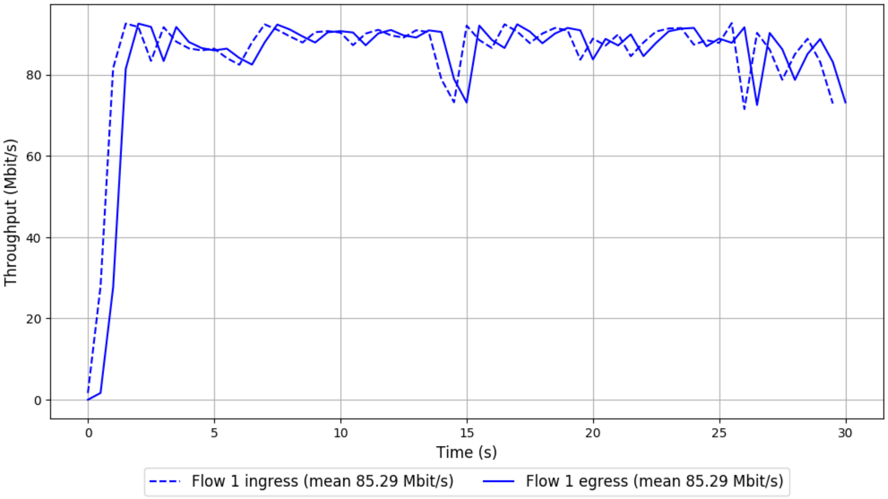
Run 4: Report of PCC-Vivace — Data Link

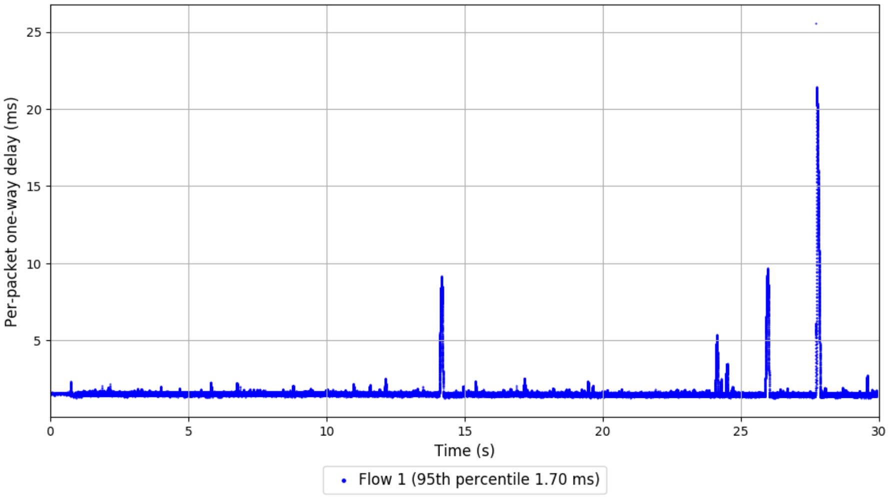




```
Run 5: Statistics of PCC-Vivace

Start at: 2018-05-30 09:51:48
End at: 2018-05-30 09:52:19
Local clock offset: -7.936 ms
Remote clock offset: -2.001 ms

# Below is generated by plot.py at 2018-05-30 11:49:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.29 Mbit/s
95th percentile per-packet one-way delay: 1.704 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.29 Mbit/s
95th percentile per-packet one-way delay: 1.704 ms
Loss rate: 0.00%
```

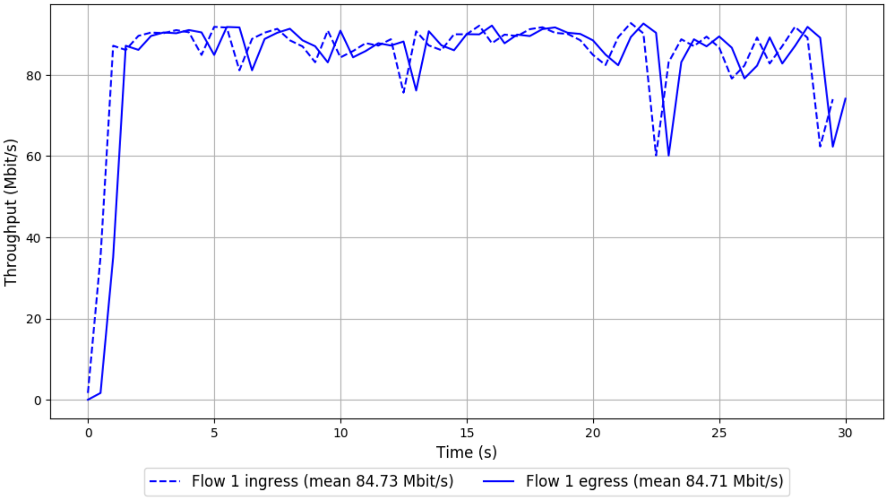
Run 5: Report of PCC-Vivace — Data Link

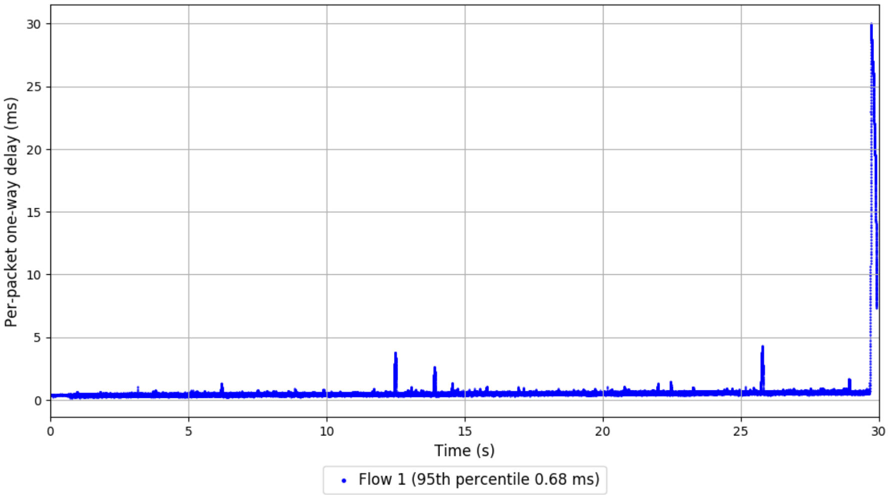




```
Run 6: Statistics of PCC-Vivace

Start at: 2018-05-30 10:09:42
End at: 2018-05-30 10:10:12
Local clock offset: -5.752 ms
Remote clock offset: -1.839 ms

# Below is generated by plot.py at 2018-05-30 11:49:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.71 Mbit/s
95th percentile per-packet one-way delay: 0.682 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.71 Mbit/s
95th percentile per-packet one-way delay: 0.682 ms
Loss rate: 0.00%
```

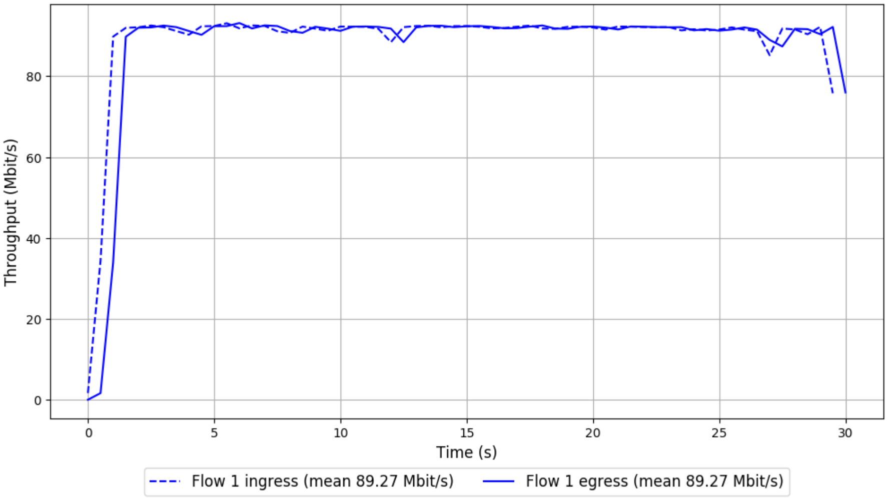
Run 6: Report of PCC-Vivace — Data Link

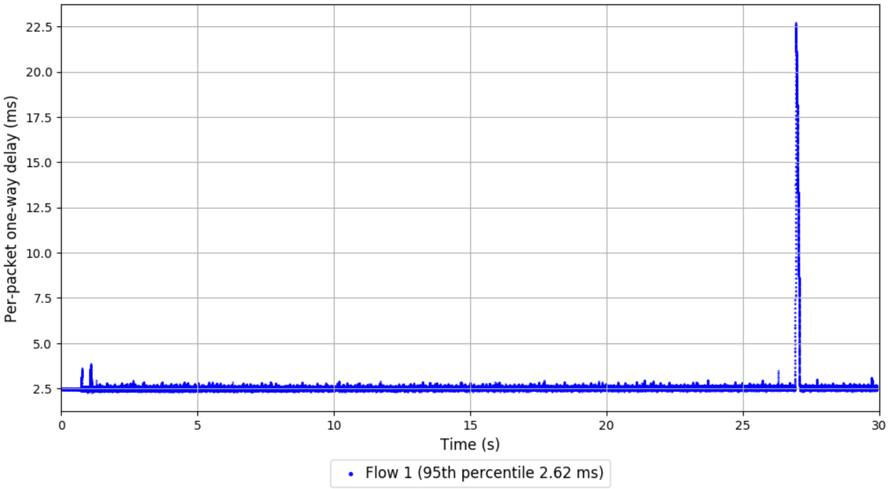




```
Run 7: Statistics of PCC-Vivace

Start at: 2018-05-30 10:27:41
End at: 2018-05-30 10:28:12
Local clock offset: -2.1 ms
Remote clock offset: -1.966 ms

# Below is generated by plot.py at 2018-05-30 11:49:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.27 Mbit/s
95th percentile per-packet one-way delay: 2.617 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.27 Mbit/s
95th percentile per-packet one-way delay: 2.617 ms
Loss rate: 0.00%
```

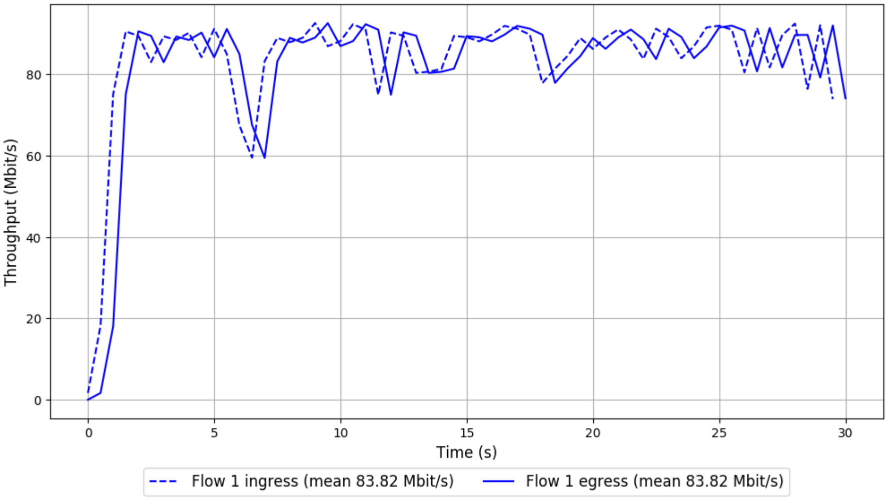
Run 7: Report of PCC-Vivace — Data Link

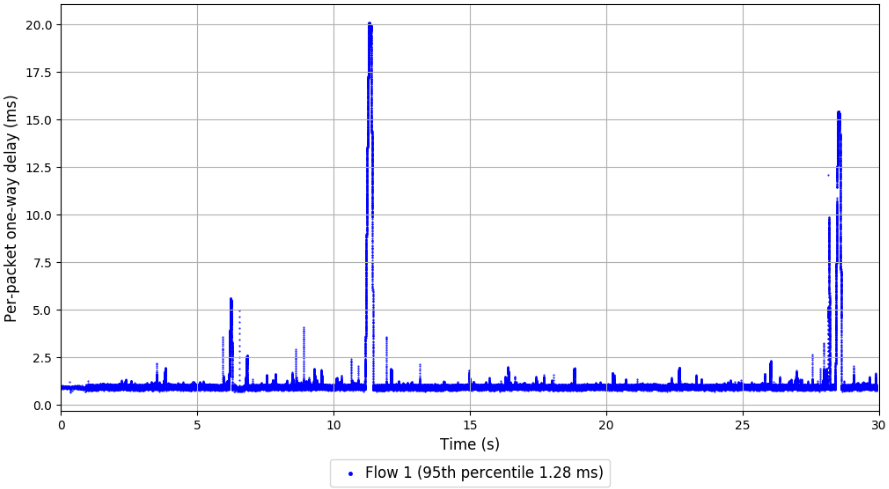




```
Run 8: Statistics of PCC-Vivace

Start at: 2018-05-30 10:45:36
End at: 2018-05-30 10:46:07
Local clock offset: -1.662 ms
Remote clock offset: -1.999 ms

# Below is generated by plot.py at 2018-05-30 11:49:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.82 Mbit/s
95th percentile per-packet one-way delay: 1.282 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 83.82 Mbit/s
95th percentile per-packet one-way delay: 1.282 ms
Loss rate: 0.00%
```

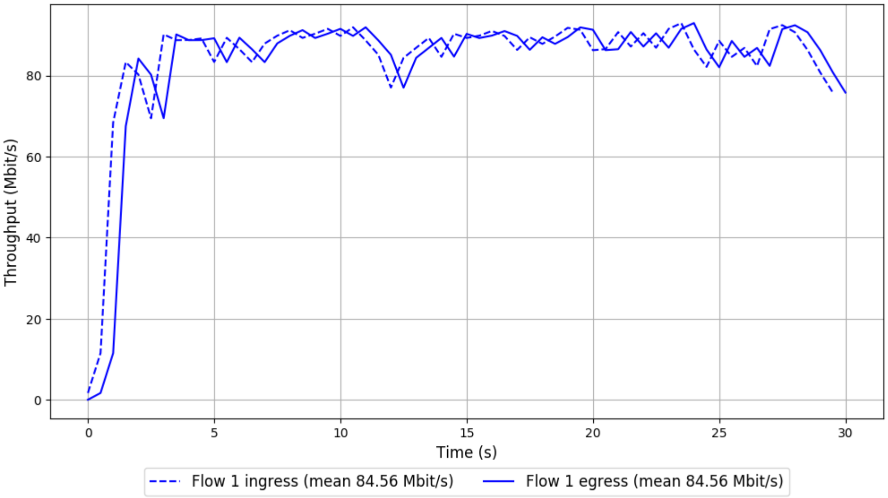
Run 8: Report of PCC-Vivace — Data Link

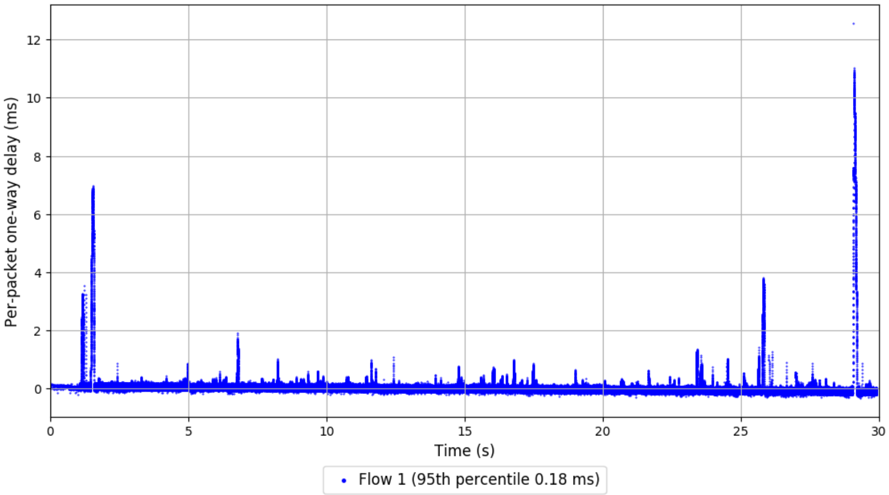




```
Run 9: Statistics of PCC-Vivace

Start at: 2018-05-30 11:03:30
End at: 2018-05-30 11:04:00
Local clock offset: -0.707 ms
Remote clock offset: 8.656 ms

# Below is generated by plot.py at 2018-05-30 11:50:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.56 Mbit/s
95th percentile per-packet one-way delay: 0.185 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.56 Mbit/s
95th percentile per-packet one-way delay: 0.185 ms
Loss rate: 0.00%
```

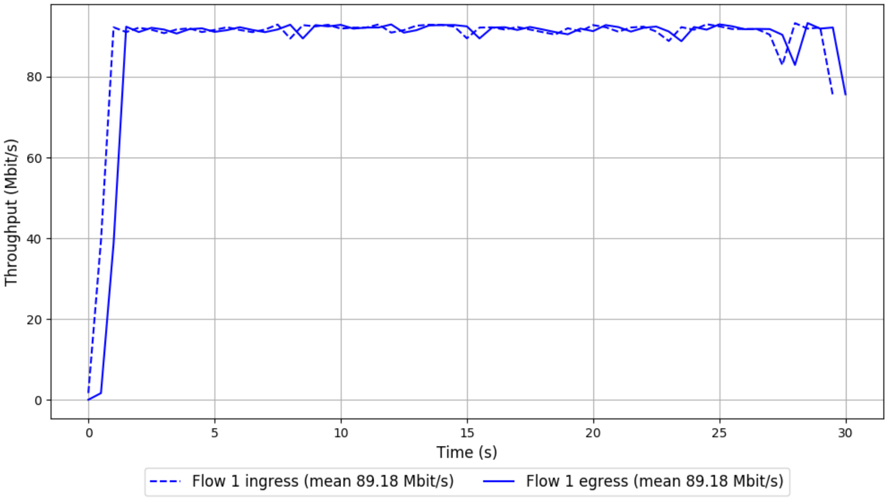
Run 9: Report of PCC-Vivace — Data Link

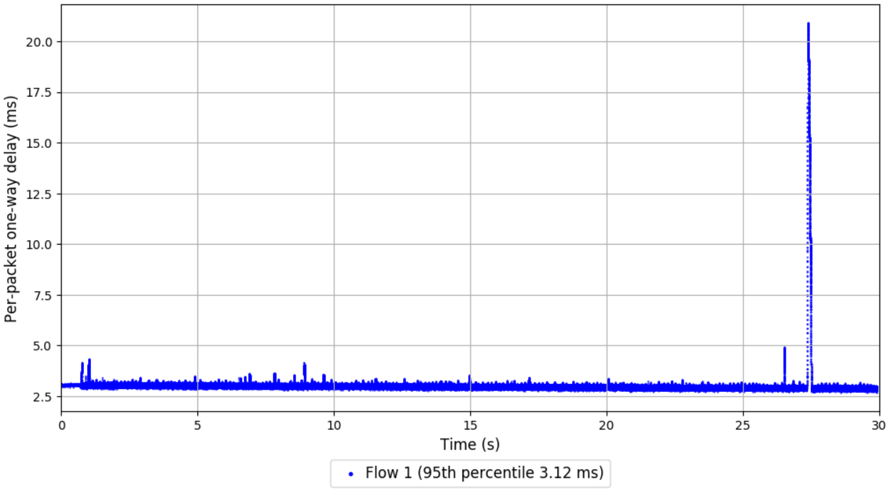




```
Run 10: Statistics of PCC-Vivace

Start at: 2018-05-30 11:21:22
End at: 2018-05-30 11:21:52
Local clock offset: -7.55 ms
Remote clock offset: 13.218 ms

# Below is generated by plot.py at 2018-05-30 11:50:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.18 Mbit/s
95th percentile per-packet one-way delay: 3.118 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.18 Mbit/s
95th percentile per-packet one-way delay: 3.118 ms
Loss rate: 0.00%
```

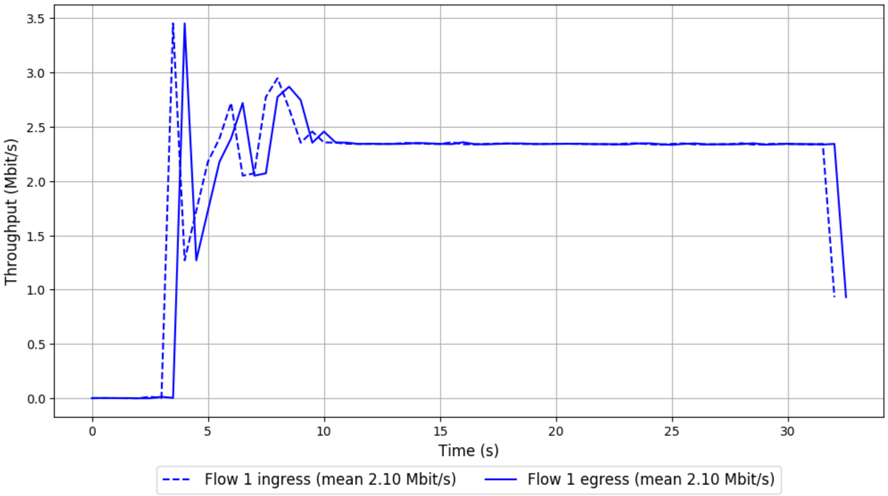
Run 10: Report of PCC-Vivace — Data Link

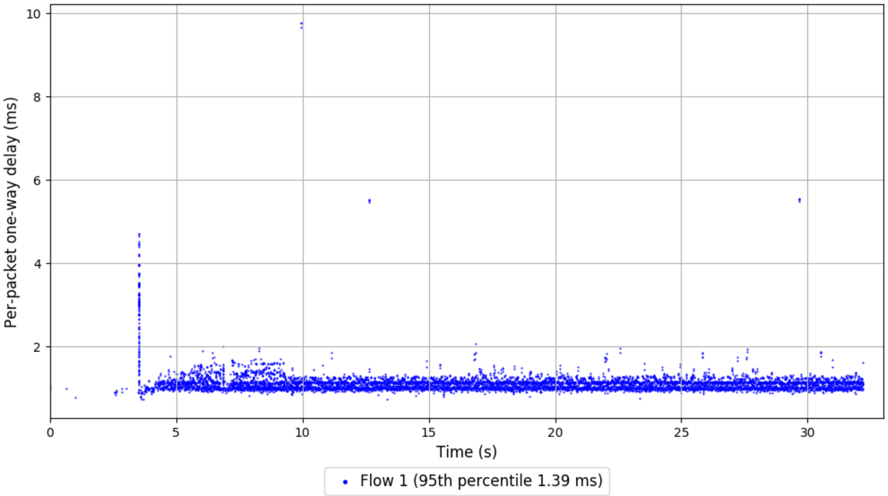




```
Run 1: Statistics of WebRTC media

Start at: 2018-05-30 08:26:44
End at: 2018-05-30 08:27:14
Local clock offset: -3.784 ms
Remote clock offset: -3.105 ms

# Below is generated by plot.py at 2018-05-30 11:50:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 1.386 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 1.386 ms
Loss rate: 0.00%
```

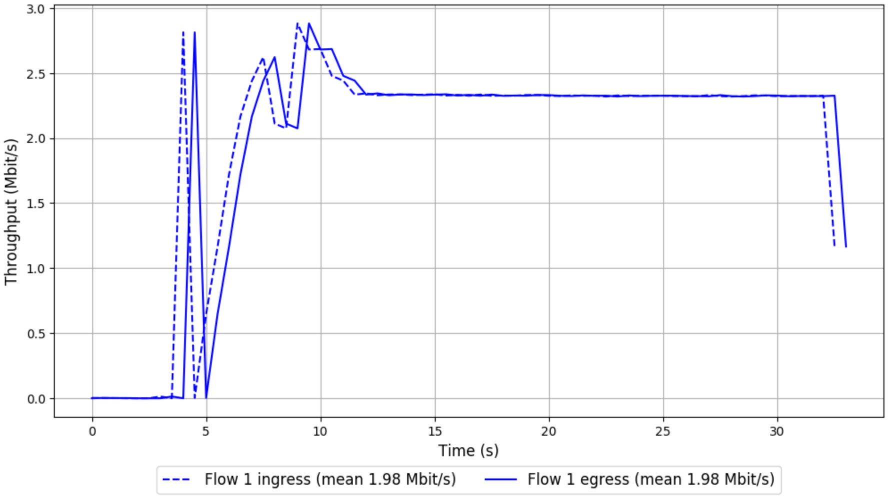
Run 1: Report of WebRTC media — Data Link

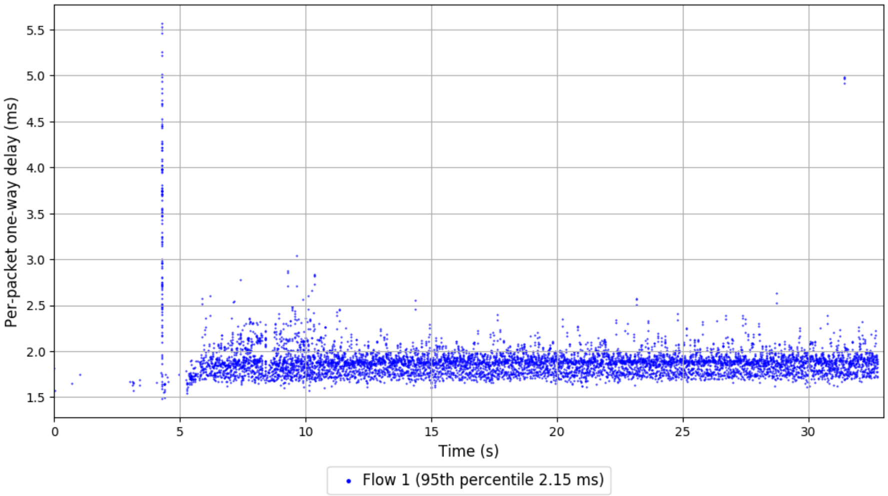




```
Run 2: Statistics of WebRTC media

Start at: 2018-05-30 08:44:40
End at: 2018-05-30 08:45:10
Local clock offset: -3.862 ms
Remote clock offset: -2.897 ms

# Below is generated by plot.py at 2018-05-30 11:50:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 2.147 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 2.147 ms
Loss rate: 0.00%
```

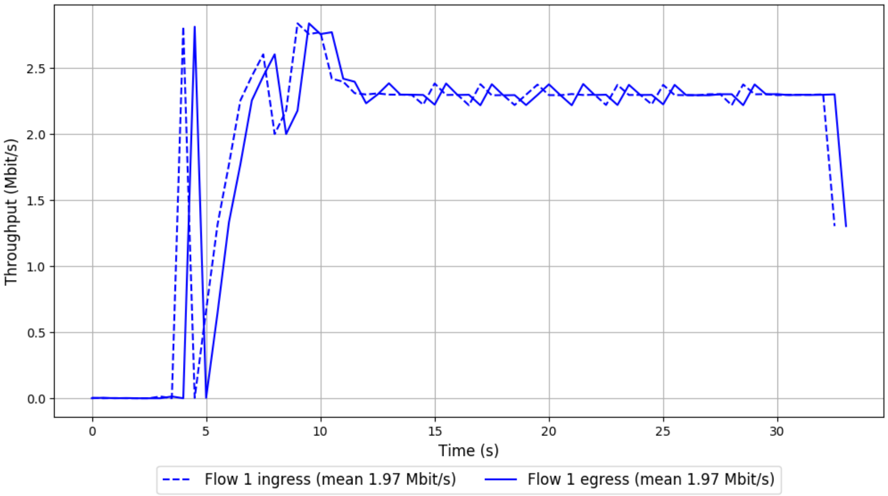
Run 2: Report of WebRTC media — Data Link

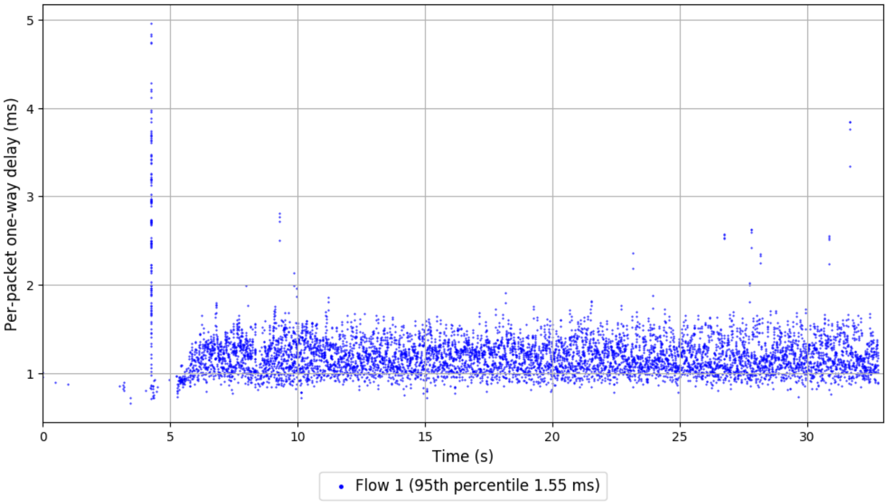




```
Run 3: Statistics of WebRTC media

Start at: 2018-05-30 09:02:33
End at: 2018-05-30 09:03:03
Local clock offset: -2.946 ms
Remote clock offset: -2.812 ms

# Below is generated by plot.py at 2018-05-30 11:50:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 1.554 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 1.554 ms
Loss rate: 0.00%
```

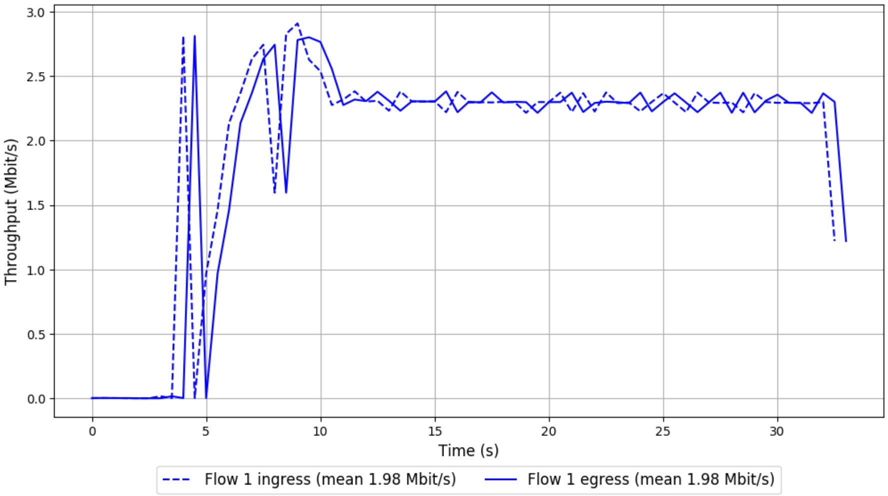
Run 3: Report of WebRTC media — Data Link

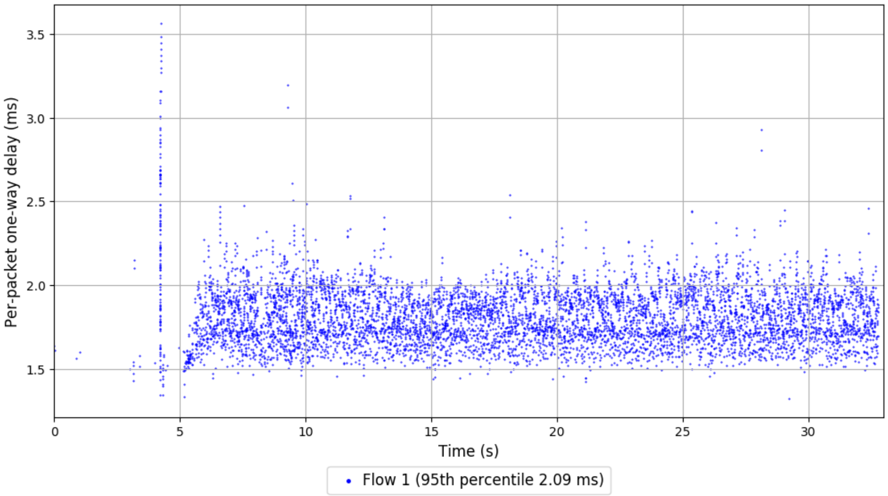




```
Run 4: Statistics of WebRTC media

Start at: 2018-05-30 09:20:28
End at: 2018-05-30 09:20:58
Local clock offset: -1.831 ms
Remote clock offset: -2.314 ms

# Below is generated by plot.py at 2018-05-30 11:50:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 2.087 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 2.087 ms
Loss rate: 0.00%
```

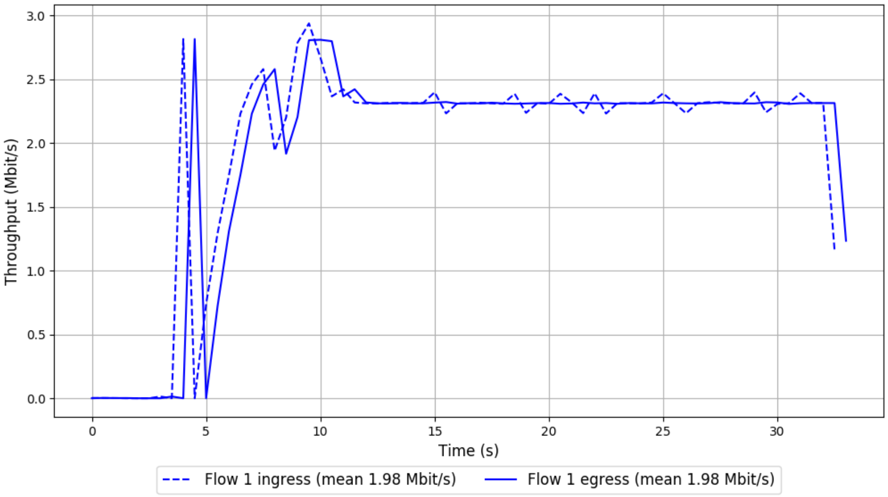
Run 4: Report of WebRTC media — Data Link

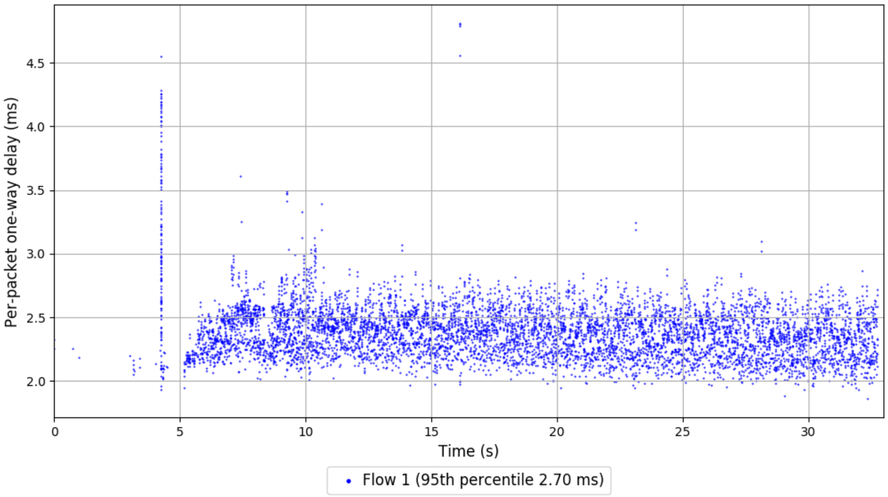




```
Run 5: Statistics of WebRTC media

Start at: 2018-05-30 09:38:28
End at: 2018-05-30 09:38:58
Local clock offset: -3.774 ms
Remote clock offset: -2.108 ms

# Below is generated by plot.py at 2018-05-30 11:50:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 2.700 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 2.700 ms
Loss rate: 0.00%
```

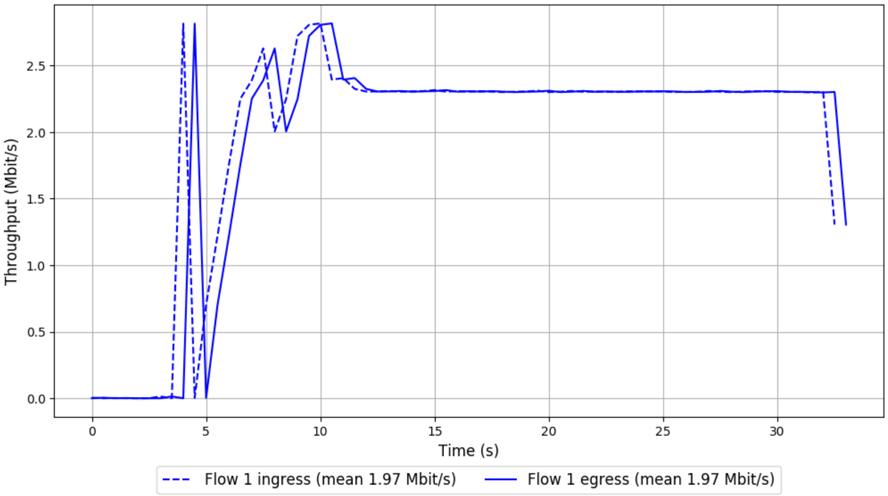
Run 5: Report of WebRTC media — Data Link

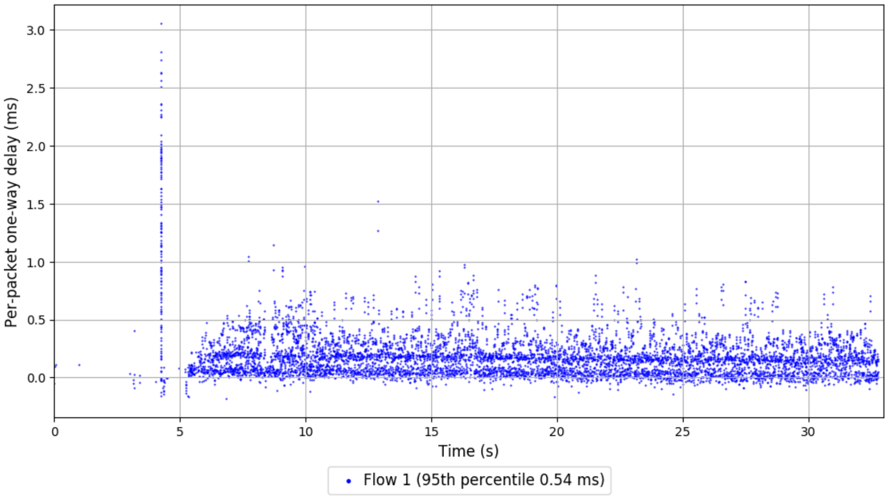




```
Run 6: Statistics of WebRTC media

Start at: 2018-05-30 09:56:22
End at: 2018-05-30 09:56:52
Local clock offset: -7.007 ms
Remote clock offset: -1.98 ms

# Below is generated by plot.py at 2018-05-30 11:50:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 0.540 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 0.540 ms
Loss rate: 0.00%
```

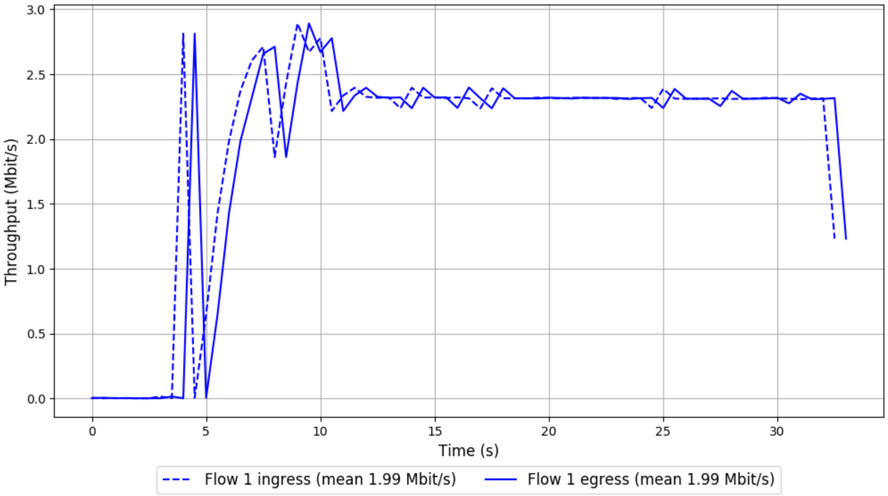
Run 6: Report of WebRTC media — Data Link

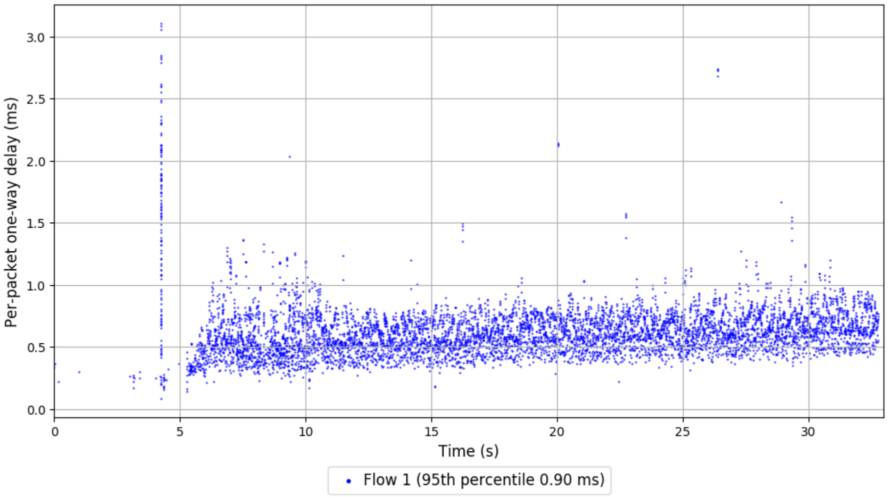




```
Run 7: Statistics of WebRTC media

Start at: 2018-05-30 10:14:15
End at: 2018-05-30 10:14:46
Local clock offset: -3.801 ms
Remote clock offset: -1.842 ms

# Below is generated by plot.py at 2018-05-30 11:50:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.99 Mbit/s
95th percentile per-packet one-way delay: 0.898 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.99 Mbit/s
95th percentile per-packet one-way delay: 0.898 ms
Loss rate: 0.00%
```

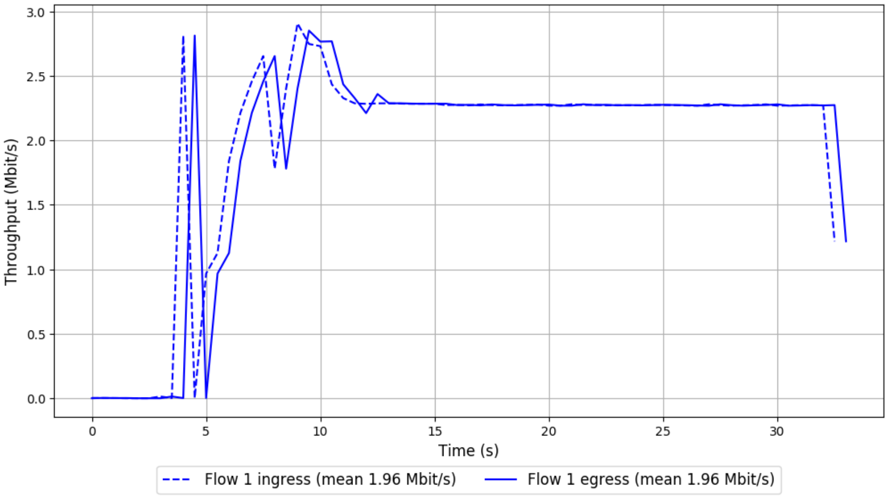
Run 7: Report of WebRTC media — Data Link

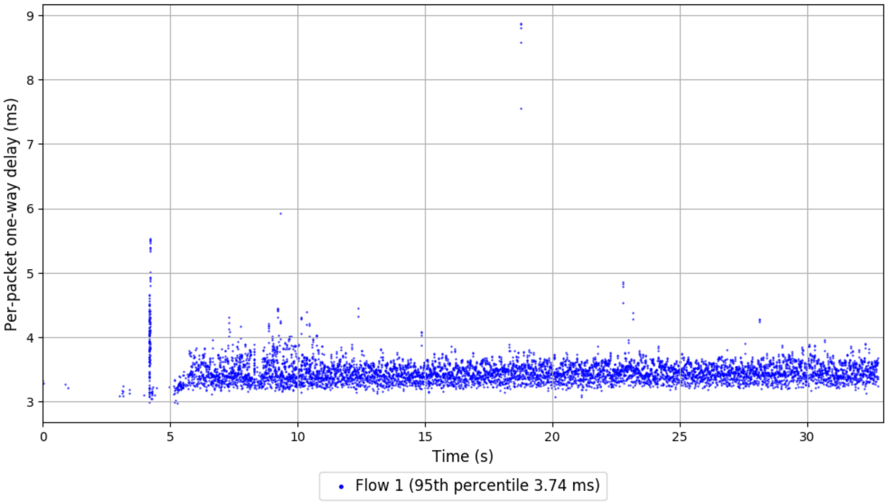




```
Run 8: Statistics of WebRTC media

Start at: 2018-05-30 10:32:15
End at: 2018-05-30 10:32:45
Local clock offset: -2.504 ms
Remote clock offset: -1.99 ms

# Below is generated by plot.py at 2018-05-30 11:50:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 3.737 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 3.737 ms
Loss rate: 0.00%
```

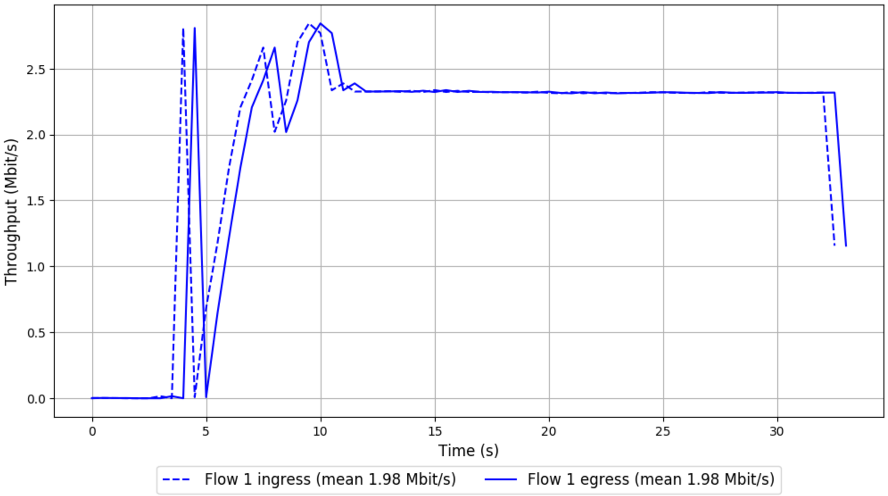
Run 8: Report of WebRTC media — Data Link

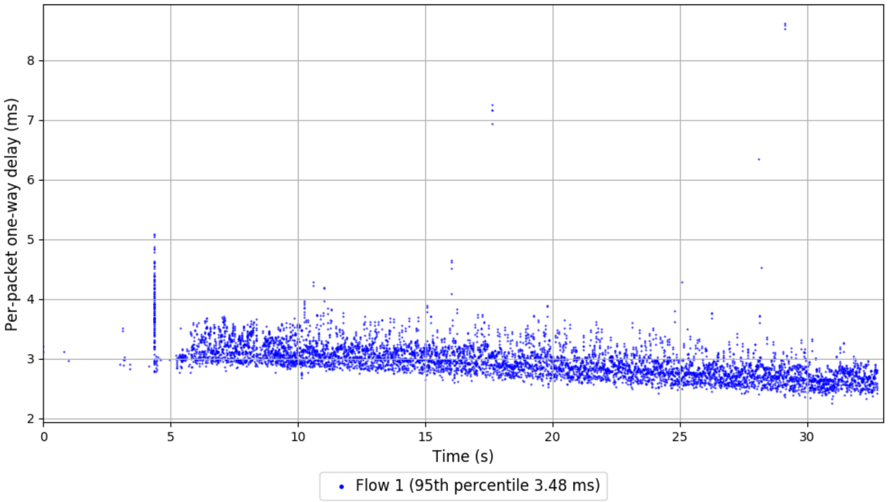




```
Run 9: Statistics of WebRTC media

Start at: 2018-05-30 10:50:09
End at: 2018-05-30 10:50:39
Local clock offset: -2.412 ms
Remote clock offset: -1.122 ms

# Below is generated by plot.py at 2018-05-30 11:50:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 3.480 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 3.480 ms
Loss rate: 0.00%
```

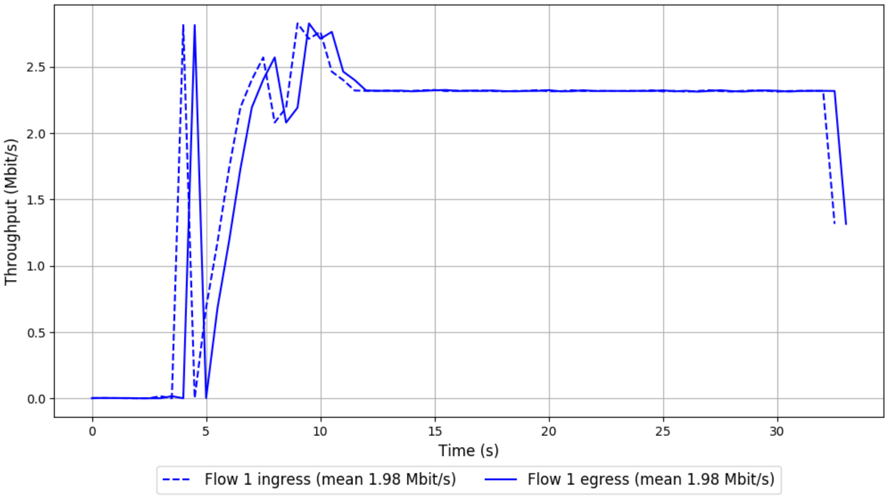
Run 9: Report of WebRTC media — Data Link



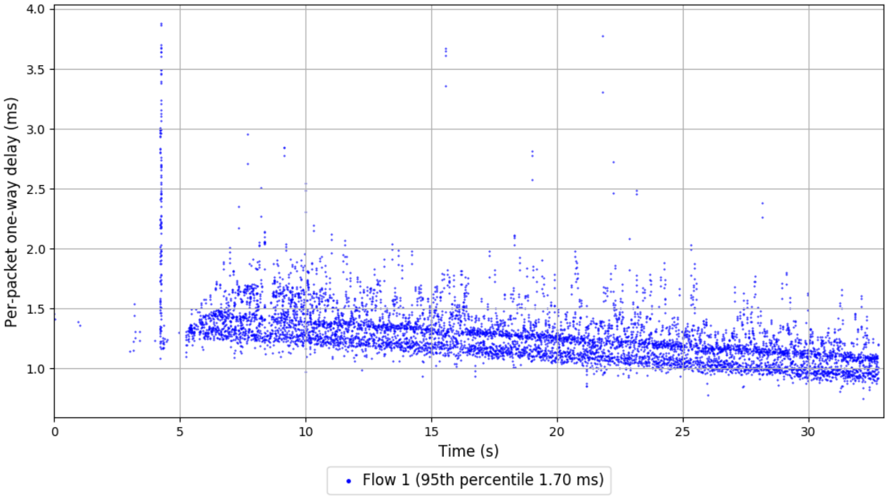


```
Run 10: Statistics of WebRTC media

Start at: 2018-05-30 11:08:03
End at: 2018-05-30 11:08:33
Local clock offset: -1.718 ms
Remote clock offset: 10.194 ms

# Below is generated by plot.py at 2018-05-30 11:50:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 1.703 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 1.703 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
0
5
10
15
20
25
30
Time (s)
Flow 1 ingress (mean 1.98 Mbit/s)
Flow 1 egress (mean 1.98 Mbit/s)



Per-packet one-way delay (ms)
1.0
1.5
2.0
2.5
3.0
3.5
4.0
0
5
10
15
20
25
30
Time (s)
Flow 1 (95th percentile 1.70 ms)